

ภาคผนวก ช
เอกสารสอบเทียบเครื่องมือ



List of Instruments Certification for Air & Noise Quality Analysis

No.	Instrument/Equipment	Parameter	Manufacturer	Model/Serial No.	Calibrator	Certification No.	Date of Calibration	Due date of Calibration	Remark
Ambient									
1	Orifice Transfer Standard Calibrator	Total Suspended Particulate (TSP) Particulate Matter < 10 µm (PM ₁₀)	Tisch Environmental, Inc	TE-5025A 3393	Jiranatee Associates Co., Ltd.	CL-004-65	26 Jul 22	25 Jul 24	-
2	Orifice Transfer Standard Calibrator	Total Suspended Particulate (TSP) Particulate Matter < 10 µm (PM ₁₀)	Tisch Environmental, Inc	TE-5025A 3383	Jiranatee Associates Co., Ltd.	CL-003-65	26 Jul 22	25 Jul 24	-
3	U-Tube Manometer	Total Suspended Particulate (TSP) Particulate Matter < 10 µm (PM ₁₀)	Dwyer	1221-36-W/M -	Technology Promotion Association (Thailand-Japan)	23P1401	9 May 23	8 May 24	-
4	Air Flow Meter	Particular Matter (PM _{2.5})	Mesa Labs	DeltaCal DC1 163268	Innovative Instrument Co., Ltd.	22-AFM-172	31 Oct 22	30 Oct 23	-
5	Air Flow Meter	Particular Matter (PM _{2.5})	Mesa Labs	DeltaCal DC1 160491	Innovative Instrument Co., Ltd.	23-AFM-204	27-Sep-23	26-Sep-24	-
6	Aneroid Barometer	Total Suspended Particulate (TSP) Particulate Matter < 10 µm (PM ₁₀) Particular Matter (PM _{2.5}) Hydrogen Chloride Mercury Cadmium Lead	Barigo, Germany	-	Technology Promotion Association (Thailand-Japan)	23P1858	2 Jun 23	1 Jun 24	-
7	Dial Thermo-Hygrometer	Total Suspended Particulate (TSP) Particulate Matter < 10 µm (PM ₁₀) Particular Matter (PM _{2.5}) Hydrogen Chloride Mercury Cadmium Lead	Barigo, Germany	-	Technology Promotion Association (Thailand-Japan)	23H1200	6 Jun 23	5 Jun 24	-

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No.	Instrument/Equipment	Parameter	Manufacturer	Model/Serial No.	Calibrator	Certification No.	Date of Calibration	Due date of Calibration	Remark
Ambient									
8	Sound Level Calibrator (Acoustic Calibrator)	Calibrate Sound Level Meter	Larson Davis	CAL150 6457	Innovative Instrument Co.,Ltd.	23-ACT-064	12 May 23	11 May 24	-
9	Sound Level Meter	L_{Aeq} 24 hours [*] L_{Amax} [*] L_{A90} [*] L_{Afn}	Larson Davis	LXT2 0005286	Sithiporn Associates Co., Ltd.	23-SLM-227	28 Jun 23	27 Jun 24	-
10	Sound Level Meter	L_{Aeq} 24 hours [*] L_{Amax} [*] L_{A90} [*] L_{Afn}	Larson Davis	LXT2 0005344	Innovative Instrument Co.,Ltd.	22-ACT-248	1 Apr 22	31 Mar 24	-
11	Sound Level Meter	L_{Aeq} 24 hours [*] L_{Amax} [*] L_{A90} [*] L_{Afn}	Larson Davis	LXT2 0005289	Sithiporn Associates Co., Ltd.	ACL 22082	28 Jun 22	27 Jun 24	-
12	Sound Level Meter	L_{Aeq} 24 hours [*] L_{Amax} [*] L_{A90} [*] L_{Afn}	Larson Davis	LXT2 0005394	Innovative Instrument Co.,Ltd.	22-ACT-034	21 Jan 22	20 Jan 24	-
13	Sound Level Meter	L_{Aeq} 24 hours [*] L_{Amax} [*] L_{A90} [*] L_{Afn}	Larson Davis	LXT2 0005304	Innovative Instrument Co.,Ltd.	22-ACT-249	1 Apr 22	31 Mar 24	-
14	Sound Level Meter	L_{Aeq} 24 hours [*] L_{Amax} [*] L_{A90} [*] L_{Afn}	Larson Davis	LXT2 0005395	Innovative Instrument Co.,Ltd.	22-ACT-247	1 Apr 22	31 Mar 24	-
15	Sound Level Meter	L_{Aeq} 24 hours [*] L_{Amax} [*] L_{A90} [*] L_{Afn}	Larson Davis	LXT2 0005396	Innovative Instrument Co.,Ltd.	22-ACT-105	11 Feb 22	10 Feb 24	-
16	Sound Level Meter	L_{Aeq} 24 hours [*] L_{Amax} [*] L_{A90} [*] L_{Afn}	Larson Davis	LXT2 0006692	Larson Davis-A PCB Piezotronics Div.	2022003094	11 Mar 22	10 Mar 24	-
17	Sound Level Meter	L_{Aeq} 24 hours [*] L_{Amax} [*] L_{A90} [*] L_{Afn}	Larson Davis	LXT2 5400	Innovative Instrument Co.,Ltd.	22-ACT-036	21-Jan-22	20-Jan-24	-

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No.	Instrument/Equipment	Parameter	Manufacturer	Model/Serial No.	Calibrator	Certification No.	Date of Calibration	Due date of Calibration	Remark
Ambient									
18	Sound Level Meter	L_{Aeq} 24 hours ¹ L_{Amax} ² L_{A90} ³ L_{Adn}	Larson Davis	LXT2 0006693	Larson Davis-A PCB Piezotronics Div.	2022002973	9 Mar 22	8 Mar 24	-
19	Sound Level Meter	L_{Aeq} 24 hours ¹ L_{Amax} ² L_{A90} ³ L_{Adn}	Larson Davis	LXT2 0006694	Larson Davis-A PCB Piezotronics Div.	2022003098	11 Mar 22	10 Mar 24	-
20	Sound Level Meter	L_{Aeq} 24 hours ¹ L_{Amax} ² L_{A90} ³ L_{Adn}	Larson Davis	LXT2 0005398	Innovative Instrument Co.,Ltd.	22-ACT-035	21 Jan 22	21 Jan 24	-
21	Sound Level Meter	L_{Aeq} 24 hours ¹ L_{Amax} ² L_{A90} ³ L_{Adn}	Larson Davis	LXT2 0006695	Larson Davis-A PCB Piezotronics Div.	2022003099	11 Mar 22	10 Mar 24	-
22	Sound Level Meter	L_{Aeq} 24 hours ¹ L_{Amax} ² L_{A90} ³ L_{Adn}	Larson Davis	LXT2 5402	Innovative Instrument Co.,Ltd.	22-ACT-103	11-Feb-22	10-Feb-24	-
23	Sound Level Meter	L_{Aeq} 24 hours ¹ L_{Amax} ² L_{A90} ³ L_{Adn}	Larson Davis	LXT2 5405	Innovative Instrument Co.,Ltd.	22-ACT-101	11-Feb-22	10-Feb-24	-
24	Sound Level Meter	L_{Aeq} 24 hours ¹ L_{Amax} ² L_{A90} ³ L_{Adn}	Larson Davis	LXT2 5407	Innovative Instrument Co.,Ltd.	22-ACT-037	21-Jan-22	20-Jan-24	-
25	Vibration Meter	Vibration Level Acceleration Level	Instantel Inc.	Micromate UM11229	Calibration Laboratory Co.Ltd	Q22097008	23 Sep 22	22 Sep 23	-
26	Vibration Meter	Vibration Level Acceleration Level	Instantel Inc.	Micromate UM11230	Calibration Laboratory Co.Ltd hj	Q22086863	30 Aug 22	29 Aug 23	-
27	Vibration Meter	Vibration Level Acceleration Level	Instantel Inc.	Micromate UM11055	Calibration Laboratory Co.Ltd	Q23022491	1-Mar-23	28-Feb-24	-
28	Vibration Meter	Vibration Level Acceleration Level	Instantel Inc.	Micromate UM11355	Calibration Laboratory Co.Ltd	Q23019604	22 Feb 23	21 Feb 24	-

List of Instruments Certification for Air & Noise Quality Analysis

No.	Instrument/Equipment	Parameter	Manufacturer	Model/Serial No.	Calibrator	Certification No.	Date of Calibration	Due date of Calibration	Remark
Ambient									
29	Vibration Meter	Vibration Level Acceleration Level	Instantel Inc.	Micromate UM14106	Calibration Laboratory Co.Ltd	Q23019603	22-Feb-23	21-Feb-24	-
30	Vibration Meter	Vibration Level Acceleration Level	Instantel Inc.	Micromate UM11356	Calibration Laboratory Co.Ltd	Q22097248	23 Sep 22	22 Sep 23	-
31	Vibration Meter	Vibration Level Acceleration Level	Instantel Inc.	Micromate UM14105	Calibration Laboratory Co.Ltd	Q23022490	1-Mar-23	28-Feb-24	-
32	Vibration Meter	Vibration Level Acceleration Level	Instantel Inc.	Micromate UM12393	Calibration Laboratory Co.Ltd	Q23019601	22 Feb 23	21 Feb 24	-
33	Vibration Meter	Vibration Level Acceleration Level	Instantel Inc.	Micromate UM12394	Calibration Laboratory Co.Ltd	Q23015866	13 Feb 23	12 Feb 24	-
34	Vibration Meter	Vibration Level Acceleration Level	Instantel Inc.	Micromate UM12395	Calibration Laboratory Co.Ltd	Q23022495	1 Mar 23	28 Feb 24	-
35	Vibration Meter	Vibration Level Acceleration Level	Instantel Inc.	Micromate UM12888	Calibration Laboratory Co.Ltd	Q23022492	1 Mar 23	28 Feb 24	-
36	Vibration Meter	Vibration Level Acceleration Level	Instantel Inc.	Micromate UM12865	Calibration Laboratory Co.Ltd	Q22086865	30 Aug 22	29 Aug 23	-
37	Vibration Meter	Vibration Level Acceleration Level	Instantel Inc.	Micromate UM14547	Calibration Laboratory Co.Ltd	Q23012458	8 Feb 23	7 Feb 24	-
38	Vibration Meter	Vibration Level Acceleration Level	Instantel Inc.	Micromate UM12866	Calibration Laboratory Co.Ltd	Q22097011	23 Sep 22	22 Sep 23	-
39	Vibration Meter	Vibration Level Acceleration Level	Instantel Inc.	Micromate UM12867	Calibration Laboratory Co.Ltd	Q22064051	27 Jun 22	26 Jun 23	-
40	Vibration Meter	Vibration Level Acceleration Level	Instantel Inc.	Micromate UM11059	Calibration Laboratory Co.Ltd	Q23019602	22 Feb 23	21 Feb 24	-

List of Instruments Certification for Air & Noise Quality Analysis

No.	Instrument/Equipment	Parameter	Manufacturer	Model/Serial No.	Calibrator	Certification No.	Date of Calibration	Due date of Calibration	Remark
Ambient									
41	Vibration Meter	Vibration Level Acceleration Level	Instantel Inc.	Micromate UM12889	Calibration Laboratory Co.Ltd	Q22053609	31 May 22	30 May 23	-
42	Vibration Meter	Vibration Level Acceleration Level	Instantel Inc.	Micromate UM14466	Calibration Laboratory Co.Ltd	Q23019600	22 Feb 23	21 Feb 24	-
43	Vibration Meter	Vibration Level Acceleration Level	Instantel Inc.	Micromate UM12890	Calibration Laboratory Co.Ltd	Q22053608	31 May 22	30 May 23	-
44	Vibration Meter	Vibration Level Acceleration Level	Instantel Inc.	Micromate UM14468	Calibration Laboratory Co.Ltd	Q23015869	13 Feb 23	12 Feb 24	-
45	Vibration Meter	Vibration Level Acceleration Level	Instantel Inc.	Micromate UM12891	Calibration Laboratory Co.Ltd	Q22097007	23 Sep 22	22 Sep 23	-
46	Vibration Meter	Vibration Level Acceleration Level	Instantel Inc.	Micromate UM11057	Calibration Laboratory Co.Ltd	Q23022494	28 Feb 23	27 Feb 24	-
47	Vibration Meter	Vibration Level Acceleration Level	Instantel Inc.	Micromate UM13368	Calibration Laboratory Co.Ltd	Q23015868	13-Feb-23	12-Feb-24	-
48	Vibration Meter	Vibration Level Acceleration Level	Instantel Inc.	Micromate UM11056	Calibration Laboratory Co.Ltd	Q23015867	12-Feb-23	11-Feb-24	-
49	Vibration Meter	Vibration Level Acceleration Level	Instantel Inc.	Micromate UM11058	Calibration Laboratory Co.Ltd	Q23022493	1 Mar 23	28 Feb 24	-



The purpose of this document is to provide a uniform, reliable, and accurate method for the determination of the concentration of a substance in a sample by using a standard solution.



Certificate of Calibration

Document No. 1-10-0001
Page: 1 of 2

Customer: Agilent Technologies
Measurement: Weight
Model: N/A
Serial No.: N/A
Calibration No.: 100-0001-000000
Calibration Date: 01-Aug-2001
Calibration Due: 01-Aug-2002
Calibration Interval: 12 Months
Calibration Method: 100-0001-000000
Calibration Result: 100.0000 ± 0.0001

Remarks: The calibration was performed using a standard solution of known concentration. The results are within the specified tolerance.

Details of the calibration

Calibration Standard: 100-0001-000000
Calibration Result: 100.0000 ± 0.0001
Calibration Date: 01-Aug-2001
Calibration Due: 01-Aug-2002
Calibration Interval: 12 Months
Calibration Method: 100-0001-000000
Calibration Result: 100.0000 ± 0.0001

Calibration No.: 100-0001-000000
Calibration Date: 01-Aug-2001
Calibration Due: 01-Aug-2002
Calibration Interval: 12 Months
Calibration Method: 100-0001-000000
Calibration Result: 100.0000 ± 0.0001

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Doc No. 1-10-0001
Page: 2 of 2

Result of Calibration		Uncertainty Statement		
Reference Temperature	Measured Result	Uncertainty	Days	Uncertainty of Measurement
20.0	100.0000	0.0001	10	0.0001
20.0	100.0000	0.0001	10	0.0001
20.0	100.0000	0.0001	10	0.0001

Result of Calibration		Uncertainty Statement		
Reference Temperature	Measured Result	Uncertainty	Days	Uncertainty of Measurement
20.0	100.0000	0.0001	10	0.0001
20.0	100.0000	0.0001	10	0.0001
20.0	100.0000	0.0001	10	0.0001

Result of Calibration		Uncertainty Statement		
Reference Temperature	Measured Result	Uncertainty	Days	Uncertainty of Measurement
20.0	100.0000	0.0001	10	0.0001
20.0	100.0000	0.0001	10	0.0001
20.0	100.0000	0.0001	10	0.0001

Notes: The uncertainty of measurement is based on a standard uncertainty of 0.0001, based on a standard uncertainty of 0.0001.

100

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The purpose of this document is to provide a uniform, reliable, and accurate method for the determination of the concentration of a substance in a sample by using a standard solution.



Certificate of Calibration

Customer: Agilent Technologies
Measurement: Weight
Model: N/A
Serial No.: N/A
Calibration No.: 100-0001-000000
Calibration Date: 01-Aug-2001
Calibration Due: 01-Aug-2002
Calibration Interval: 12 Months
Calibration Method: 100-0001-000000
Calibration Result: 100.0000 ± 0.0001

Details of the calibration

Calibration Standard: 100-0001-000000
Calibration Result: 100.0000 ± 0.0001
Calibration Date: 01-Aug-2001
Calibration Due: 01-Aug-2002
Calibration Interval: 12 Months
Calibration Method: 100-0001-000000
Calibration Result: 100.0000 ± 0.0001

Calibration Standard	Model	Serial Number	Uncertainty	Calibration Date
100-0001-000000	100	100000	0.0001	01-Aug-2001

Remarks: The calibration was performed using a standard solution of known concentration. The results are within the specified tolerance.

Notes: The uncertainty of measurement is based on a standard uncertainty of 0.0001, based on a standard uncertainty of 0.0001.

Calibration No.: 100-0001-000000
Calibration Date: 01-Aug-2001
Calibration Due: 01-Aug-2002
Calibration Interval: 12 Months
Calibration Method: 100-0001-000000
Calibration Result: 100.0000 ± 0.0001

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The purpose of this document is to provide a uniform, reliable, and accurate method for the determination of the concentration of a substance in a sample by using a standard solution.



Certificate of Calibration

Result of Calibration		Uncertainty Statement		
Reference Temperature	Measured Result	Uncertainty	Days	Uncertainty of Measurement
20.0	100.0000	0.0001	10	0.0001
20.0	100.0000	0.0001	10	0.0001
20.0	100.0000	0.0001	10	0.0001

Result of Calibration		Uncertainty Statement		
Reference Temperature	Measured Result	Uncertainty	Days	Uncertainty of Measurement
20.0	100.0000	0.0001	10	0.0001
20.0	100.0000	0.0001	10	0.0001
20.0	100.0000	0.0001	10	0.0001

Result of Calibration		Uncertainty Statement		
Reference Temperature	Measured Result	Uncertainty	Days	Uncertainty of Measurement
20.0	100.0000	0.0001	10	0.0001
20.0	100.0000	0.0001	10	0.0001
20.0	100.0000	0.0001	10	0.0001

Notes: The uncertainty of measurement is based on a standard uncertainty of 0.0001, based on a standard uncertainty of 0.0001.

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Calibration Certificate

Equipment : 60000 1.075L METTER
Manufacturer : LAURENCE SCIENTIFIC
Model : 1.075 Litre (Metric) 100000, 1000000, 10000000, 100000000, 1000000000
Serial No. : 000000-000000-000000
ID No. :
Condition As Found : 100000
Customer : (Sithiporn Associates Co., Ltd.)
Location : 101-0117 Jomtien Rd., Jomtien, Sattahip District, Chon Buri 26100
Ambient Temperature : 28.0 ± 0.2 °C
Pressure : 1013.25 ± 0.1 hPa
Relative Humidity : 65 ± 2 %
Revised Date : 10/01/2022
Calibration Date : 10/01/2022
Date of Issue : 10/01/2022

Calibrated by : T. Pichai
Reference: Pichai

Approved by : T. Pichai
Technical Director

This certificate is issued in accordance with the requirements of ISO/IEC 17025:2017 standard, may not be reproduced without prior written consent of the issuing Calibration Laboratory.

Signature of the Customer

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Calibration Procedure : SI-001

Calibration Method:

This equipment was calibrated by using SI-001 and SI-002 Standard for measurement of 1.075 L.
The SI-001 and SI-002 Standard and SI-002 Standard are used for measurement of 1.075 L.
The SI-001 and SI-002 Standard are used for measurement of 1.075 L.
The SI-001 and SI-002 Standard are used for measurement of 1.075 L.

Condition of the result of calibration:

1. Reference Standard/Instrument:

Instrument	Model	Serial No.	Cert. No.	Exp. Date
Reference Standard	SI-001	SI-001-0001	SI-001-0001	10/01/22
Reference Standard	SI-002	SI-002-0001	SI-002-0001	10/01/22
Digital Multimeter	SI-001	SI-001-0001	SI-001-0001	10/01/22
Digital Multimeter	SI-002	SI-002-0001	SI-002-0001	10/01/22
Digital Multimeter	SI-003	SI-003-0001	SI-003-0001	10/01/22
Programmable Resistor	SI-001	SI-001-0001	SI-001-0001	10/01/22
Calibration Standard	SI-001	SI-001-0001	SI-001-0001	10/01/22
Measuring Equipment	SI-001	SI-001-0001	SI-001-0001	10/01/22

2. The result of calibration was found to be within the specified limits of calibration.

3. The certificate is issued in the following form of report:

- Technical Director/Manager (SI-001)
- Technical Director/Manager (SI-002)

Signature of the Customer

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Summary of Measurement Results:

Parameter	Pass	Fail	Comments	Maximum permitted uncertainty of measurement (MPE)
1. Reference Standard	✓	-	SI-001	0.1%
2. Self-generated error	✓	-	SI-002	0.1%
3. Generalized digital multimeter (SI-001)	✓	-	SI-001	0.1%
4. Generalized digital multimeter (SI-002)	✓	-	SI-002	0.1%
5. Generalized digital multimeter (SI-003)	✓	-	SI-003	0.1%
6. Generalized digital multimeter (SI-004)	✓	-	SI-004	0.1%
7. Generalized digital multimeter (SI-005)	✓	-	SI-005	0.1%
8. Generalized digital multimeter (SI-006)	✓	-	SI-006	0.1%
9. Generalized digital multimeter (SI-007)	✓	-	SI-007	0.1%
10. Generalized digital multimeter (SI-008)	✓	-	SI-008	0.1%
11. Generalized digital multimeter (SI-009)	✓	-	SI-009	0.1%
12. Generalized digital multimeter (SI-010)	✓	-	SI-010	0.1%
13. Generalized digital multimeter (SI-011)	✓	-	SI-011	0.1%
14. Generalized digital multimeter (SI-012)	✓	-	SI-012	0.1%
15. Generalized digital multimeter (SI-013)	✓	-	SI-013	0.1%
16. Generalized digital multimeter (SI-014)	✓	-	SI-014	0.1%
17. Generalized digital multimeter (SI-015)	✓	-	SI-015	0.1%
18. Generalized digital multimeter (SI-016)	✓	-	SI-016	0.1%
19. Generalized digital multimeter (SI-017)	✓	-	SI-017	0.1%
20. Generalized digital multimeter (SI-018)	✓	-	SI-018	0.1%
21. Generalized digital multimeter (SI-019)	✓	-	SI-019	0.1%
22. Generalized digital multimeter (SI-020)	✓	-	SI-020	0.1%

Signature of the Customer

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Result of calibration:

1. Standard condition:

Reference Standard	Model	Serial No.	Cert. No.
SI-001	SI-001	SI-001-0001	SI-001-0001

2. Self-generated error:

Reference Standard	Model	Serial No.	Cert. No.
SI-001	SI-001	SI-001-0001	SI-001-0001

3. The result of calibration was found to be within the specified limits of calibration.

Parameter	Measured value
Weighting	1.075 L
1 - weight	0.1%
2 - weight	0.1%
3 - weight	0.1%

4. Generalized digital multimeter (SI-001)

Parameter (SI-001)	Reference Standard	Measured value	Maximum permitted uncertainty of measurement (MPE)
1.075 L	SI-001	1.075 L	0.1%
1.075 L	SI-001	1.075 L	0.1%
1.075 L	SI-001	1.075 L	0.1%

Signature of the Customer

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Author	David M. Foray, University of California, San Diego	Editorial No.	12-00000
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Estimate	Actual	Delta	%	Over/Under	Quality
Estimate/Actual	100%	0%	100%	0	100%
Estimate/Actual	100%	0%	100%	0	100%
Estimate/Actual	100%	0%	100%	0	100%
Estimate/Actual	100%	0%	100%	0	100%

100

$$\begin{aligned}
 \text{Calculus 1b} &= \frac{\text{Calculus 1a}}{\text{Calculus 1a} + \text{Calculus 1b}} \\
 \text{Calculus 1a} &= \frac{\text{Calculus 1a}}{\text{Calculus 1a} + \text{Calculus 1b}}
 \end{aligned}$$

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¹ http://www.who.int/csr/don/2006_05_01a/en/

Variable	Sample	Pre-intervention		Intervention		p-value	Significance
		Mean	SD	Mean	SD		
Knowledge	Pre	5.5	1.5	6.5	1.5	0.001	Significant
Attitude	Pre	4.5	1.5	5.5	1.5	0.001	Significant
Practice	Pre	3.5	1.5	4.5	1.5	0.001	Significant

Doc: [Journal articles on applying the use of Technology-Based Decision Tools](#) (1/1/2007 - 12/31/2007)

2. *Adipogenicity* and *lipogenicity* assays

Year	Number of cases	Rate per 100,000
1990	1,000	1.0
1991	1,100	1.1
1992	1,200	1.2
1993	1,300	1.3
1994	1,400	1.4
1995	1,500	1.5
1996	1,600	1.6
1997	1,700	1.7
1998	1,800	1.8
1999	1,900	1.9
2000	2,000	2.0
2001	2,100	2.1
2002	2,200	2.2
2003	2,300	2.3
2004	2,400	2.4
2005	2,500	2.5
2006	2,600	2.6
2007	2,700	2.7
2008	2,800	2.8
2009	2,900	2.9
2010	3,000	3.0
2011	3,100	3.1
2012	3,200	3.2
2013	3,300	3.3
2014	3,400	3.4
2015	3,500	3.5
2016	3,600	3.6
2017	3,700	3.7
2018	3,800	3.8
2019	3,900	3.9
2020	4,000	4.0

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Year	Number of cases	Rate per 100,000
1990	1,000	1.0
1991	1,100	1.1
1992	1,200	1.2
1993	1,300	1.3
1994	1,400	1.4
1995	1,500	1.5
1996	1,600	1.6
1997	1,700	1.7
1998	1,800	1.8
1999	1,900	1.9
2000	2,000	2.0

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2010 Ending	2009	2008		2007 Ending	2006
2009 Ending	2008	2007	2006	2005	2004
2007 Year-End	100	100	100	100	100
2008	100	100	100	100	100
2009	100	100	100	100	100
2010	100	100	100	100	100

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Strongly Recommended

U.S. Supply	Wetness	Cost (\$/lb)	Properties
100% U.S. Supply	100%	100%	100%
100% U.S. Supply	100%	100%	100%
100% U.S. Supply	100%	100%	100%
100% U.S. Supply	100%	100%	100%
100% U.S. Supply	100%	100%	100%

Journal of Management Education 32(10)

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2017 Ending 12/31/2017	2016 Ending 12/31/2016			2015 Ending 12/31/2015	2014 Ending 12/31/2014
	Assets	Liabilities	Equity		
2017 Ending	10,000	5,000	5,000	8.3	10,000
2016 Ending	10,000	5,000	5,000		10,000
2015 Ending	10,000	5,000	5,000		10,000
2014 Ending	10,000	5,000	5,000		10,000
2013 Ending	10,000	5,000	5,000		10,000
2012 Ending	10,000	5,000	5,000		10,000
2011 Ending	10,000	5,000	5,000		10,000
2010 Ending	10,000	5,000	5,000		10,000

[illegible]

2012 Training		2012A		2012B		2012C	2012D	2012E
2012A	2012B	2012C	2012D	2012E	2012F			
2012 Training	2012A	2012B	2012C	2012D	2012E	2012F	2012G	2012H
2012 Training	2012A	2012B	2012C	2012D	2012E	2012F	2012G	2012H
2012 Training	2012A	2012B	2012C	2012D	2012E	2012F	2012G	2012H
2012 Training	2012A	2012B	2012C	2012D	2012E	2012F	2012G	2012H
2012 Training	2012A	2012B	2012C	2012D	2012E	2012F	2012G	2012H
2012 Training	2012A	2012B	2012C	2012D	2012E	2012F	2012G	2012H

[illegible]

^a We were unable to fit a linear regression. ^b We were unable to fit a linear regression due to outliers. ^c We were unable to fit a linear regression due to outliers.

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1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

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Journal of Management Education 32(10)

Keywords: child sexual abuse; disclosure; social support

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SIC coding	SIC	Description			SIC-00000000	Description
		Code	Code	Code		
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SIC 0000	0000	0000	0000	0000	0000	0000
SIC 0000	0000	0000	0000	0000	0000	0000
SIC 0000	0000	0000	0000	0000	0000	0000

200. *Staph. hyemalis* n. sp.

[illegible]

11. **Answer: D**—The passage states that the author is not sure whether the "new" is better than the "old."

Variable	Information			Information ratio	Information coefficient
	2007	2008	2009		
Information ratio	0.00	0.00	0.00	0.00	0.00
Information coefficient	0.00	0.00	0.00	0.00	0.00
Information ratio	0.00	0.00	0.00	0.00	0.00
Information coefficient	0.00	0.00	0.00	0.00	0.00
Information ratio	0.00	0.00	0.00	0.00	0.00
Information coefficient	0.00	0.00	0.00	0.00	0.00

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(continued)

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Received 10/10/2010
Accepted 10/10/2010

22. <http://www.pearsoned.com>

Category	Item	Value	Unit
Production	1.000 kg of product	100.00	€
	2.000 kg of product	200.00	€
	3.000 kg of product	300.00	€
	4.000 kg of product	400.00	€
	5.000 kg of product	500.00	€
Distribution	1.000 kg of product	100.00	€
	2.000 kg of product	200.00	€
	3.000 kg of product	300.00	€
	4.000 kg of product	400.00	€
	5.000 kg of product	500.00	€

11. <http://www.pearsoned.com>

Year	Number of cases	Rate per 100,000	Age-standardized rate
1997	100	10.0	10.0
1998	110	11.0	11.0
1999	120	12.0	12.0
2000	130	13.0	13.0
2001	140	14.0	14.0
2002	150	15.0	15.0
2003	160	16.0	16.0
2004	170	17.0	17.0
2005	180	18.0	18.0
2006	190	19.0	19.0
2007	200	20.0	20.0
2008	210	21.0	21.0
2009	220	22.0	22.0
2010	230	23.0	23.0
2011	240	24.0	24.0
2012	250	25.0	25.0
2013	260	26.0	26.0
2014	270	27.0	27.0
2015	280	28.0	28.0
2016	290	29.0	29.0
2017	300	30.0	30.0
2018	310	31.0	31.0
2019	320	32.0	32.0
2020	330	33.0	33.0
2021	340	34.0	34.0
2022	350	35.0	35.0
2023	360	36.0	36.0
2024	370	37.0	37.0
2025	380	38.0	38.0
2026	390	39.0	39.0
2027	400	40.0	40.0
2028	410	41.0	41.0
2029	420	42.0	42.0
2030	430	43.0	43.0
2031	440	44.0	44.0
2032	450	45.0	45.0
2033	460	46.0	46.0
2034	470	47.0	47.0
2035	480	48.0	48.0
2036	490	49.0	49.0
2037	500	50.0	50.0
2038	510	51.0	51.0
2039	520	52.0	52.0
2040	530	53.0	53.0
2041	540	54.0	54.0
2042	550	55.0	55.0
2043	560	56.0	56.0
2044	570	57.0	57.0
2045	580	58.0	58.0
2046	590	59.0	59.0
2047	600	60.0	60.0
2048	610	61.0	61.0
2049	620	62.0	62.0
2050	630	63.0	63.0
2051	640	64.0	64.0
2052	650	65.0	65.0
2053	660	66.0	66.0
2054	670	67.0	67.0
2055	680	68.0	68.0
2056	690	69.0	69.0
2057	700	70.0	70.0
2058	710	71.0	71.0
2059	720	72.0	72.0
2060	730	73.0	73.0
2061	740	74.0	74.0
2062	750	75.0	75.0
2063	760	76.0	76.0
2064	770	77.0	77.0
2065	780	78.0	78.0
2066	790	79.0	79.0
2067	800	80.0	80.0
2068	810	81.0	81.0
2069	820	82.0	82.0
2070	830	83.0	83.0
2071	840	84.0	84.0
2072	850	85.0	85.0
2073	860	86.0	86.0
2074	870	87.0	87.0
2075	880	88.0	88.0
2076	890	89.0	89.0
2077	900	90.0	90.0
2078	910	91.0	91.0
2079	920	92.0	92.0
2080	930	93.0	93.0
2081	940	94.0	94.0
2082	950	95.0	95.0
2083	960	96.0	96.0
2084	970	9	

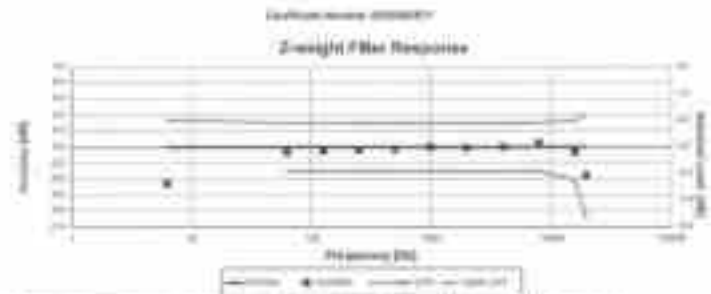
References

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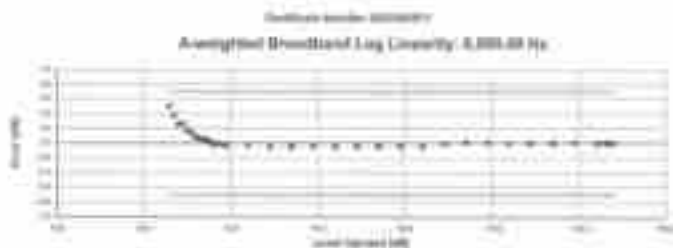
	Average (SD)		
Depression	4.2 (3.9)	4.0 (3.9)	4.2 (3.9) (NS)
Self-reported anxiety symptoms (past 12 months)	3.2 (3.0)	3.0 (3.0)	3.2 (3.0) (NS)
Self-reported depression symptoms (past 12 months)	3.2 (3.0)	3.0 (3.0)	3.2 (3.0) (NS)



Investment (\$)	Std. Deviation (\$)	Expected (\$)	Standard Error (\$)	Upper 95% (\$)	Lower 95% (\$)	Return
50	0.00	5.00	0.00	5.00	5.00	50%
50.10	0.00	5.05	0.00	5.05	5.05	51%
50.20	0.00	5.10	0.00	5.10	5.10	52%
50.30	0.00	5.15	0.00	5.15	5.15	53%
50.40	0.00	5.20	0.00	5.20	5.20	54%
50.50	0.00	5.25	0.00	5.25	5.25	55%
50.60	0.00	5.30	0.00	5.30	5.30	56%
50.70	0.00	5.35	0.00	5.35	5.35	57%
50.80	0.00	5.40	0.00	5.40	5.40	58%
50.90	0.00	5.45	0.00	5.45	5.45	59%
51.00	0.00	5.50	0.00	5.50	5.50	60%

เอกสารไม่ควบคุม

เอกสารไม่ควบคุม



U.S. Government Printing, Government Accounting & Budget (2010-2020) (U.S. Government Printing & Budget, 2010-2020)					
U.S. Government Printing & Budget (2010-2020) (U.S. Government Printing & Budget, 2010-2020)					
Year	Domestic	Foreign	Total	Change	Notes
2010	1.00	0.00	1.00	0.00	Print
2011	1.00	0.00	1.00	0.00	Print
2012	1.00	0.00	1.00	0.00	Print
2013	1.00	0.00	1.00	0.00	Print
2014	1.00	0.00	1.00	0.00	Print
2015	1.00	0.00	1.00	0.00	Print
2016	1.00	0.00	1.00	0.00	Print
2017	1.00	0.00	1.00	0.00	Print
2018	1.00	0.00	1.00	0.00	Print
2019	1.00	0.00	1.00	0.00	Print
2020	1.00	0.00	1.00	0.00	Print
2021	1.00	0.00	1.00	0.00	Print
2022	1.00	0.00	1.00	0.00	Print
2023	1.00	0.00	1.00	0.00	Print
2024	1.00	0.00	1.00	0.00	Print
2025	1.00	0.00	1.00	0.00	Print
2026	1.00	0.00	1.00	0.00	Print
2027	1.00	0.00	1.00	0.00	Print
2028	1.00	0.00	1.00	0.00	Print
2029	1.00	0.00	1.00	0.00	Print
2030	1.00	0.00	1.00	0.00	Print
2031	1.00	0.00	1.00	0.00	Print
2032	1.00	0.00	1.00	0.00	Print
2033	1.00	0.00	1.00	0.00	Print
2034	1.00	0.00	1.00	0.00	Print
2035	1.00	0.00	1.00	0.00	Print
2036	1.00	0.00	1.00	0.00	Print
2037	1.00	0.00	1.00	0.00	Print
2038	1.00	0.00	1.00	0.00	Print
2039	1.00	0.00	1.00	0.00	Print
2040	1.00	0.00	1.00	0.00	Print
2041	1.00	0.00	1.00	0.00	Print
2042	1.00	0.00	1.00	0.00	Print
2043	1.00	0.00	1.00	0.00	Print
2044	1.00	0.00	1.00	0.00	Print
2045	1.00	0.00	1.00	0.00	Print
2046	1.00	0.00	1.00	0.00	Print
2047	1.00	0.00	1.00	0.00	Print
2048	1.00	0.00	1.00	0.00	Print
2049	1.00	0.00	1.00	0.00	Print
2050	1.00	0.00	1.00	0.00	Print
2051	1.00	0.00	1.00	0.00	Print
2052	1.00	0.00	1.00	0.00	Print
2053	1.00	0.00	1.00	0.00	Print
2054	1.00	0.00	1.00	0.00	Print
2055	1.00	0.00	1.00	0.00	Print
2056	1.00	0.00	1.00	0.00	Print
2057	1.00	0.00	1.00	0.00	Print
2058	1.00	0.00	1.00	0.00	Print
2059	1.00	0.00	1.00	0.00	Print
2060	1.00	0.00	1.00	0.00	Print
2061	1.00	0.00	1.00	0.00	Print
2062	1.00	0.00	1.00	0.00	Print
2063	1.00	0.00	1.00	0.00	Print
2064	1.00	0.00	1.00	0.00	Print
2065	1.00	0.00	1.00	0.00	Print
2066	1.00	0.00	1.00	0.00	Print
2067	1.00	0.00	1.00	0.00	Print
2068	1.00	0.00	1.00	0.00	Print
2069	1.00	0.00	1.00	0.00	Print
2070	1.00	0.00	1.00	0.00	Print



Overhead Level	Cost Factor	Cost Factor	Cost Factor	Cost Factor	Cost Factor
2.0	2	2.0	2.0	2.0	2.0
11.0	11	11.0	11.0	11.0	11.0
12.0	12	12.0	12.0	12.0	12.0
11.0-20	11-20	11.0-20	11.0-20	11.0-20	11.0-20

[illegible]

Questionnaire	Pre-Test (n=10)	Post-Test (n=10)	Significance (p)	Standard Deviation (SD)	Mean
Q1: How often do you use the internet?	4.0	4.0	0.00	0.00	4.0
Q2: How often do you use the internet?	4.0	4.0	0.00	0.00	4.0
Q3: How often do you use the internet?	4.0	4.0	0.00	0.00	4.0
Q4: How often do you use the internet?	4.0	4.0	0.00	0.00	4.0

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Qualtrics Survey ID: 20220507

Breakdown Noise Floor

Qualtrics Survey ID: 20220507

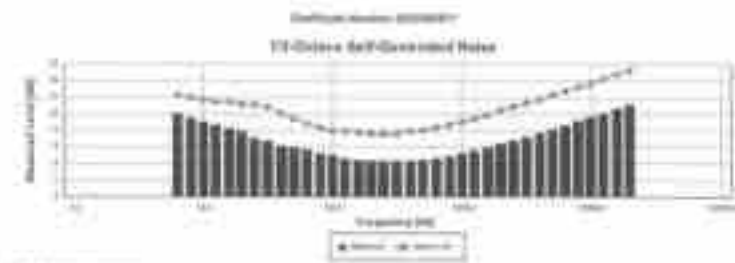
Measurement	Raw Score (dB)	Score (dB)	Pass/Fail
Breakdown Noise Floor	70.07	69.05	Pass
Language Noise Floor	69.06	69.04	Pass
Language Noise Floor	69.07	69.05	Pass

— End of Measurement section

Total Harmonic Distortion

Measurement	Raw Score (dB)	Score (dB)	Pass/Fail
Total Harmonic Distortion	70.07	69.05	Pass
Language Noise Floor	69.06	69.04	Pass
Language Noise Floor	69.07	69.05	Pass

— End of Measurement section



Qualtrics Survey ID: 20220507

1/3 Octave Self-Noise Floor

Frequency (Hz)	Raw Score (dB)	Score (dB)	Pass/Fail
125	70.07	69.05	Pass
150	70.07	69.05	Pass
175	70.07	69.05	Pass
200	70.07	69.05	Pass
225	70.07	69.05	Pass
250	70.07	69.05	Pass
275	70.07	69.05	Pass
300	70.07	69.05	Pass
325	70.07	69.05	Pass
350	70.07	69.05	Pass
375	70.07	69.05	Pass
400	70.07	69.05	Pass
425	70.07	69.05	Pass
450	70.07	69.05	Pass
475	70.07	69.05	Pass
500	70.07	69.05	Pass
525	70.07	69.05	Pass
550	70.07	69.05	Pass
575	70.07	69.05	Pass
600	70.07	69.05	Pass
625	70.07	69.05	Pass
650	70.07	69.05	Pass
675	70.07	69.05	Pass
700	70.07	69.05	Pass
725	70.07	69.05	Pass
750	70.07	69.05	Pass
775	70.07	69.05	Pass
800	70.07	69.05	Pass
825	70.07	69.05	Pass
850	70.07	69.05	Pass
875	70.07	69.05	Pass
900	70.07	69.05	Pass
925	70.07	69.05	Pass
950	70.07	69.05	Pass
975	70.07	69.05	Pass
1000	70.07	69.05	Pass

— End of Measurement section

เอกสารไม่ควบคุม

เอกสารไม่ควบคุม

Qualtrics Survey ID: 20220507

1/3 Octave Self-Noise Floor

Frequency (Hz)	Raw Score (dB)	Score (dB)	Pass/Fail
125	70.07	69.05	Pass
150	70.07	69.05	Pass
175	70.07	69.05	Pass
200	70.07	69.05	Pass
225	70.07	69.05	Pass
250	70.07	69.05	Pass
275	70.07	69.05	Pass
300	70.07	69.05	Pass
325	70.07	69.05	Pass
350	70.07	69.05	Pass
375	70.07	69.05	Pass
400	70.07	69.05	Pass
425	70.07	69.05	Pass
450	70.07	69.05	Pass
475	70.07	69.05	Pass
500	70.07	69.05	Pass
525	70.07	69.05	Pass
550	70.07	69.05	Pass
575	70.07	69.05	Pass
600	70.07	69.05	Pass
625	70.07	69.05	Pass
650	70.07	69.05	Pass
675	70.07	69.05	Pass
700	70.07	69.05	Pass
725	70.07	69.05	Pass
750	70.07	69.05	Pass
775	70.07	69.05	Pass
800	70.07	69.05	Pass
825	70.07	69.05	Pass
850	70.07	69.05	Pass
875	70.07	69.05	Pass
900	70.07	69.05	Pass
925	70.07	69.05	Pass
950	70.07	69.05	Pass
975	70.07	69.05	Pass
1000	70.07	69.05	Pass

— End of Measurement section

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LARSON DAVIS

Qualtrics Survey ID: 20220507

1/3 Octave Self-Noise Floor

Frequency (Hz)	Raw Score (dB)	Score (dB)	Pass/Fail
125	70.07	69.05	Pass
150	70.07	69.05	Pass
175	70.07	69.05	Pass
200	70.07	69.05	Pass
225	70.07	69.05	Pass
250	70.07	69.05	Pass
275	70.07	69.05	Pass
300	70.07	69.05	Pass
325	70.07	69.05	Pass
350	70.07	69.05	Pass
375	70.07	69.05	Pass
400	70.07	69.05	Pass
425	70.07	69.05	Pass
450	70.07	69.05	Pass
475	70.07	69.05	Pass
500	70.07	69.05	Pass
525	70.07	69.05	Pass
550	70.07	69.05	Pass
575	70.07	69.05	Pass
600	70.07	69.05	Pass
625	70.07	69.05	Pass
650	70.07	69.05	Pass
675	70.07	69.05	Pass
700	70.07	69.05	Pass
725	70.07	69.05	Pass
750	70.07	69.05	Pass
775	70.07	69.05	Pass
800	70.07	69.05	Pass
825	70.07	69.05	Pass
850	70.07	69.05	Pass
875	70.07	69.05	Pass
900	70.07	69.05	Pass
925	70.07	69.05	Pass
950	70.07	69.05	Pass
975	70.07	69.05	Pass
1000	70.07	69.05	Pass

— End of Measurement section

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LARSON DAVIS

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1. Test Results Summary			
Test Item	Result	Test Method	Reference
Model Number	LX2	IEC 60651:2001	Class 2
Serial Number	0006693	ANSI S1.4 (R2006)	Type 2
Test Results	Pass	IEC 61252:2002	
Initial Condition	As Manufactured	IEC 61672:2013	Class 2
Description	SoundTrack LX2 Class 2 Class 2 Sound Level Meter Firmware Revision: 2,404	IEC 61260:2001	Class 2

2. Test Results Summary			
Test Item	Result	Test Method	Reference
Model Number	LX2	IEC 60651:2001	Class 2
Serial Number	0006693	ANSI S1.4 (R2006)	Type 2
Test Results	Pass	IEC 61252:2002	
Initial Condition	As Manufactured	IEC 61672:2013	Class 2
Description	SoundTrack LX2 Class 2 Class 2 Sound Level Meter Firmware Revision: 2,404	IEC 61260:2001	Class 2

Calibration Certificate

Certificate Number 2022002973

Customer:
United Analyst and Engineering Consultant Co Ltd
No. 81 Soi Udonsuk 41, Sukhumvit Road,
Bangchak, Phra Khanong,
Bangkok, 10260, Thailand

Model Number LX2
Serial Number 0006693
Test Results Pass

Initial Condition As Manufactured
Description SoundTrack LX2 Class 2
Class 2 Sound Level Meter
Firmware Revision: 2,404

Procedure Number D0001,8378
Technician Jacob Cannon
Calibration Date 9 Mar 2022
Calibration Due
Temperature 23.73 °C ± 0.25 °C
Humidity 49.5 %RH ± 2.0 %RH
Static Pressure 85.37 kPa ± 0.13 kPa

Evaluation Method Tested electrically using Larson Davis PRMLXT2C S/N 071562 and a 12.0 pF capacitor to simulate microphone capacitance. Data reported in dB re 20 µPa assuming a microphone sensitivity of 50.0 mV/Pa.

Compliance Standards Compliant to Manufacturer Specifications and the following standards when combined with Calibration Certificate from procedure D0001.8384:

IEC 60651:2001 Type 2	ANSI S1.4-2014 Class 2
IEC 60804:2000 Type 2	ANSI S1.4 (R2006) Type 2
IEC 61252:2002	ANSI S1.25 (R2007)
IEC 61672:2013 Class 2	ANSI S1.43 (R2007) Type 2
IEC 61260:2001 Class 2	ANSI S1.11 (R2009) Class 2

Issuing lab certifies that the instrument described above meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST), or other national measurement institutes, and meets the requirements of ISO/IEC 17025:2017. Test points marked with a ‡ in the uncertainties column do not fall within this laboratory's scope of accreditation.

The quality system is registered to ISO 9001:2015.

This calibration is a direct comparison of the unit under test to the listed reference standards and did not involve any sampling plans to complete. No allowance has been made for the instability of the test device due to use, time, etc. Such allowances would be made by the customer as needed.

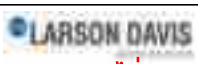
The uncertainties were computed in accordance with the ISO Guide to the Expression of Uncertainty in Measurement (GUM). A coverage factor of approximately 2 sigma (k=2) has been applied to the standard uncertainty to express the expanded uncertainty at approximately 95% confidence level.

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Correction data from Larson Davis LX2 Manual for SoundTrack LX2 & SoundExpert LX2, I770.01 Rev O Supporting Firmware Version 4.0,5, 2019-09-10

Calibration Check Frequency: 1000 Hz; Reference Sound Pressure Level: 114 dB re 20 µPa

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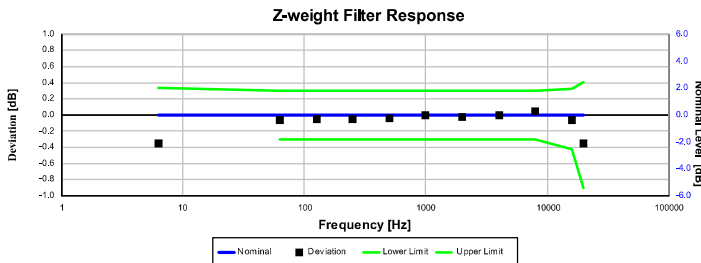
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Certificate Number 2022002973

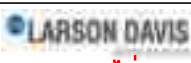
Standards Used			
Description	Cal Date	Cal Due	Cal Standard
Hart Scientific 2626-H Temperature Probe	2021-02-04	2022-08-04	006767
SRS DS360 Ultra Low Distortion Generator	2022-01-03	2023-01-03	007118

Certificate Number 2022002973



Electrical signal test of frequency weighting performed according to IEC 61672-3:2013 13 and ANSI S1.4-2014 Part 3: 13 for compliance to IEC 61672-1:2013 5.5; IEC 60651:2001 6.1 and 9.2.2; IEC 60804:2000 5; ANSI S1.4-1983 (R2006) 5.1 and 8.2.1; ANSI S1.4-2014 Part 1: 5.5

Frequency [Hz]	Test Result [dB]	Deviation [dB]	Lower limit [dB]	Upper limit [dB]	Expanded Uncertainty [dB]	Result
6.31	-0.35	-0.35	-1.11	0.33	0.15	Pass
63.10	-0.06	-0.06	-0.30	0.30	0.15	Pass
125.89	-0.05	-0.05	-0.30	0.30	0.15	Pass
251.19	-0.05	-0.05	-0.30	0.30	0.15	Pass
501.19	-0.03	-0.03	-0.30	0.30	0.15	Pass
1,000.00	0.00	0.00	-0.30	0.30	0.15	Pass
1,995.26	-0.02	-0.02	-0.30	0.30	0.15	Pass
3,981.07	-0.01	-0.01	-0.30	0.30	0.15	Pass
7,943.28	0.04	0.04	-0.30	0.30	0.15	Pass
15,848.93	-0.07	-0.07	-0.42	0.32	0.15	Pass
19,952.62	-0.35	-0.35	-0.91	0.41	0.15	Pass
— End of measurement results—						

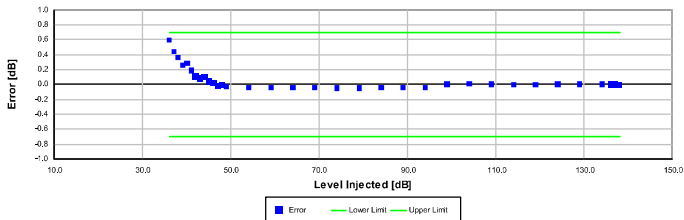


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A-weighted Broadband Log Linearity: 8,000.00 Hz



Broadband level linearity performed according to IEC 61672-3:2013 16 and ANSI S1.4-2014 Part 3: 16 for compliance to IEC 61672-1:2013 5.6, IEC 60804:2000 6.2, IEC 61252:2002 8, ANSI S1.4 (R2006) 6.9, ANSI S1.4-2014 Part 1: 5.6, ANSI S1.43 (R2007) 6.2

Level [dB]	Error [dB]	Lower limit [dB]	Upper limit [dB]	Expanded Uncertainty [dB]	Result
36.00	0.60	-0.70	0.70	0.16	Pass
37.00	0.44	-0.70	0.70	0.16	Pass
38.00	0.37	-0.70	0.70	0.16	Pass
39.00	0.26	-0.70	0.70	0.16	Pass
40.00	0.28	-0.70	0.70	0.16	Pass
41.00	0.19	-0.70	0.70	0.16	Pass
42.00	0.11	-0.70	0.70	0.16	Pass
43.00	0.08	-0.70	0.70	0.17	Pass
44.00	0.10	-0.70	0.70	0.17	Pass
45.00	0.05	-0.70	0.70	0.16	Pass
46.00	0.02	-0.70	0.70	0.16	Pass
47.00	-0.01	-0.70	0.70	0.16	Pass
48.00	0.00	-0.70	0.70	0.16	Pass
49.00	-0.03	-0.70	0.70	0.16	Pass
54.00	-0.04	-0.70	0.70	0.16	Pass
59.00	-0.04	-0.70	0.70	0.16	Pass
64.00	-0.04	-0.70	0.70	0.16	Pass
69.00	-0.04	-0.70	0.70	0.16	Pass
74.00	-0.05	-0.70	0.70	0.16	Pass
79.00	-0.05	-0.70	0.70	0.16	Pass
84.00	-0.04	-0.70	0.70	0.16	Pass
89.00	-0.04	-0.70	0.70	0.16	Pass
94.00	-0.04	-0.70	0.70	0.16	Pass
99.00	0.01	-0.70	0.70	0.15	Pass
104.00	0.01	-0.70	0.70	0.15	Pass
109.00	0.01	-0.70	0.70	0.15	Pass
114.00	0.00	-0.70	0.70	0.15	Pass
119.00	0.00	-0.70	0.70	0.15	Pass
124.00	0.01	-0.70	0.70	0.15	Pass
129.00	0.01	-0.70	0.70	0.15	Pass
134.00	0.01	-0.70	0.70	0.15	Pass
136.00	0.01	-0.70	0.70	0.15	Pass
137.00	0.00	-0.70	0.70	0.15	Pass
138.00	0.00	-0.70	0.70	0.15	Pass

-- End of measurement results--

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Broadband Noise Floor

Self-generated noise measured according to IEC 61672-3:2013 11.2 and ANSI S1.4-2014 Part 3: 11.2

Measurement	Test Result [dB]	Upper limit [dB]	Result
A-weight Noise Floor	27.08	36.00	Pass
C-weight Noise Floor	26.90	35.00	Pass
Z-weight Noise Floor	32.76	39.00	Pass

-- End of measurement results--

Total Harmonic Distortion

Measured using 1/3-Octave filters

Measurement	Test Result [dB]	Lower Limit [dB]	Upper Limit [dB]	Expanded Uncertainty [dB]	Result
10 Hz Signal	135.53	134.15	135.75	0.15	Pass
THD	-67.24	-58.00	-58.00	0.01 ±	Pass
THD+N	-63.03	-58.00	-58.00	0.01 ±	Pass

-- End of measurement results--

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Peak Rise Time

Peak rise time performed according to IEC 60651:2001 9.4.4 and ANSI S1.4:1983 (R2006) 8.4.4

Amplitude [dB]	Duration [μs]		Test Result [dB]	Lower limit [dB]	Upper limit [dB]	Expanded Uncertainty [dB]	Result
136,95	40	Negative Pulse	135,01	133,52	135,52	0,15	Pass
		Positive Pulse	134,99	133,51	135,51	0,15	Pass
	30	Negative Pulse	134,07	133,52	135,52	0,15	Pass
		Positive Pulse	134,07	133,51	135,51	0,15	Pass
– End of measurement results–							

-- End of measurement results--

Positive Pulse Crest Factor

200 μs pulse tests at 2.0, 12.0, 22.0, 32.0 dB below Overload Limit

Crest Factor measured according to IEC 60651:2001 9.4.2 and ANSI S1.4:1983 (R2006) 8.4.2

Amplitude [dB]	Crest Factor	Test Result [dB]	Limits [dB]	Expanded Uncertainty [dB]	Result
135.95	3	OVLVD	± 1.00	0.15 ±	Pass
	5	OVLVD	± 1.00	0.15 ±	Pass
125.95	3	-0.13	± 1.00	0.15 ±	Pass
	5	-0.15	± 1.00	0.16 ±	Pass
115.95	3	-0.14	± 1.00	0.15 ±	Pass
	5	-0.14	± 1.00	0.15 ±	Pass
105.95	3	-0.15	± 1.00	0.15 ±	Pass
	5	-0.14	± 1.00	0.15 ±	Pass

-- End of measurement results--

Negative Pulse Crest Factor

200 μs pulse tests at 2.0, 12.0, 22.0, 32.0 dB below Overload Limit

Crest Factor measured according to IEC 60651:2001 9.4.2 and ANSI S1.4:1983 (R2006) 8.4.2

Amplitude [dB]	Crest Factor	Test Result [dB]	Limits [dB]	Expanded Uncertainty [dB]	Result
135.95	3	OVLVD	± 1.00	0.15 ±	Pass
	5	OVLVD	± 1.00	0.15 ±	Pass
125.95	3	-0.13	± 1.00	0.15 ±	Pass
	5	-0.11	± 1.00	0.15 ±	Pass
115.95	3	-0.13	± 1.00	0.15 ±	Pass
	5	-0.13	± 1.00	0.15 ±	Pass
105.95	3	-0.14	± 1.00	0.15 ±	Pass
	5	-0.13	± 1.00	0.15 ±	Pass

-- End of measurement results--

Gain

Gain measured according to IEC 61672-3:2013 17.3 and 17.4 and ANSI S1.4-2014 Part 3: 17.3 and 17.4

Measurement	Test Result [dB]	Lower limit [dB]	Upper limit [dB]	Expanded Uncertainty [dB]	Result
0 dB Gain	93.96	93.92	94.12	0.15	Pass
0 dB Gain, Linearity	40.29	39.42	40.82	0.16	Pass
OBA Low Range	94.02	93.92	94.12	0.15	Pass
OBA Normal Range	94.02	93.20	94.80	0.15	Pass

-- End of measurement results--

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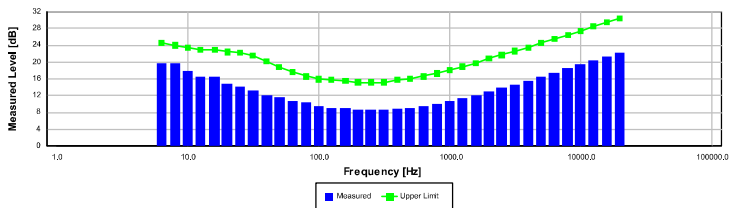


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Certificate Number 2022002973

1/3-Octave Self-Generated Noise



The SLM is set to low range.

Frequency [Hz]	Test Result [dB]	Upper limit [dB]	Result
6.30	19.82	24.60	Pass
8.00	19.80	24.00	Pass
10.00	17.93	23.50	Pass
12.50	16.57	23.00	Pass
16.00	16.43	22.90	Pass
20.00	14.79	22.40	Pass
25.00	14.06	22.30	Pass
31.50	13.20	21.50	Pass
40.00	12.12	20.20	Pass
50.00	11.65	18.80	Pass
63.00	10.68	17.60	Pass
80.00	10.37	16.60	Pass
100.00	9.56	15.90	Pass
125.00	9.15	15.70	Pass
160.00	8.94	15.50	Pass
200.00	8.64	15.20	Pass
250.00	8.63	15.20	Pass
315.00	8.57	15.20	Pass
400.00	8.85	15.70	Pass
500.00	9.05	16.00	Pass
630.00	9.46	16.60	Pass
800.00	10.00	17.30	Pass
1,000.00	10.69	18.10	Pass
1,250.00	11.33	18.90	Pass
1,600.00	12.15	19.80	Pass
2,000.00	12.96	20.80	Pass
2,500.00	13.82	21.70	Pass
3,150.00	14.67	22.60	Pass
4,000.00	15.61	23.50	Pass
5,000.00	16.52	24.50	Pass
6,300.00	17.49	25.50	Pass
8,000.00	18.47	26.50	Pass
10,000.00	19.40	27.40	Pass
12,500.00	20.42	28.50	Pass
16,000.00	21.33	29.50	Pass
20,000.00	22.34	30.40	Pass

-- End of measurement results--

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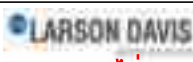
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Certificate of Calibration

Customer: [Name]
Address: [Address]
City: [City]
State: [State]
Zip: [Zip]
Country: [Country]

Calibration Information

Instrument: [Instrument]
Model: [Model]
Serial: [Serial]
Lot: [Lot]
Calibration: [Calibration]
Due: [Due]
Next: [Next]

Calibration Information and Results

Location: [Location]
Technician: [Technician]
Calibration: [Calibration]
Due: [Due]
Next: [Next]
Comments: [Comments]
Calibration: [Calibration]
Due: [Due]
Next: [Next]

Parameter	Unit	Value	Uncertainty	Reference	Remarks
Temperature	°C	20.0	±0.1	ISO 9001:2015	
Humidity	%	65.0	±1.0	ISO 9001:2015	
Pressure	hPa	1013.25	±0.1	ISO 9001:2015	
Altitude	m	100.0	±1.0	ISO 9001:2015	

The calibration was performed in accordance with the requirements of the ISO 9001:2015 standard.

Signature: [Signature]
Position: [Position]
Date: [Date]
Signature: [Signature]
Position: [Position]
Date: [Date]

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Certificate of Calibration

Parameter	Unit	Value	Uncertainty	Reference	Remarks
Temperature	°C	20.0	±0.1	ISO 9001:2015	
Humidity	%	65.0	±1.0	ISO 9001:2015	
Pressure	hPa	1013.25	±0.1	ISO 9001:2015	
Altitude	m	100.0	±1.0	ISO 9001:2015	

Parameter	Unit	Value	Uncertainty	Reference	Remarks
Temperature	°C	20.0	±0.1	ISO 9001:2015	
Humidity	%	65.0	±1.0	ISO 9001:2015	
Pressure	hPa	1013.25	±0.1	ISO 9001:2015	
Altitude	m	100.0	±1.0	ISO 9001:2015	

Parameter	Unit	Value	Uncertainty	Reference	Remarks
Temperature	°C	20.0	±0.1	ISO 9001:2015	
Humidity	%	65.0	±1.0	ISO 9001:2015	
Pressure	hPa	1013.25	±0.1	ISO 9001:2015	
Altitude	m	100.0	±1.0	ISO 9001:2015	

Parameter	Unit	Value	Uncertainty	Reference	Remarks
Temperature	°C	20.0	±0.1	ISO 9001:2015	
Humidity	%	65.0	±1.0	ISO 9001:2015	
Pressure	hPa	1013.25	±0.1	ISO 9001:2015	
Altitude	m	100.0	±1.0	ISO 9001:2015	

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Customer: [Name]
Address: [Address]
City: [City]
State: [State]
Zip: [Zip]
Country: [Country]

Parameter	Unit	Value	Uncertainty	Reference	Remarks
Temperature	°C	20.0	±0.1	ISO 9001:2015	
Humidity	%	65.0	±1.0	ISO 9001:2015	
Pressure	hPa	1013.25	±0.1	ISO 9001:2015	
Altitude	m	100.0	±1.0	ISO 9001:2015	

Parameter	Unit	Value	Uncertainty	Reference	Remarks
Temperature	°C	20.0	±0.1	ISO 9001:2015	
Humidity	%	65.0	±1.0	ISO 9001:2015	
Pressure	hPa	1013.25	±0.1	ISO 9001:2015	
Altitude	m	100.0	±1.0	ISO 9001:2015	

Parameter	Unit	Value	Uncertainty	Reference	Remarks
Temperature	°C	20.0	±0.1	ISO 9001:2015	
Humidity	%	65.0	±1.0	ISO 9001:2015	
Pressure	hPa	1013.25	±0.1	ISO 9001:2015	
Altitude	m	100.0	±1.0	ISO 9001:2015	

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Certificate of Calibration

Parameter	Unit	Value	Uncertainty	Reference	Remarks
Temperature	°C	20.0	±0.1	ISO 9001:2015	
Humidity	%	65.0	±1.0	ISO 9001:2015	
Pressure	hPa	1013.25	±0.1	ISO 9001:2015	
Altitude	m	100.0	±1.0	ISO 9001:2015	

Parameter	Unit	Value	Uncertainty	Reference	Remarks
Temperature	°C	20.0	±0.1	ISO 9001:2015	
Humidity	%	65.0	±1.0	ISO 9001:2015	
Pressure	hPa	1013.25	±0.1	ISO 9001:2015	
Altitude	m	100.0	±1.0	ISO 9001:2015	

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Journal No.	2000-1-10
Page No.	1000-1-10

19. *Staphylococcus aureus*

[illegible]

44 *Journal of Management Inquiry*

[illegible]

Abstract & Introduction

*We reserve the right to change the amount of the cash bonus at any time without notice. The cash bonus will be paid in cash or by check, at the discretion of the company.

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Continued on p. 10

1999

Year	2009 and 2010	2011 and 2012
Location	1000 Grand St. (between 10th and 11th Streets) and 10th Street	1000 Grand St. (between 10th and 11th Streets)

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Accession number	Accession date	Accession type
Shanghai	2008080401	Shanghai water 010804
Shao	200901	Shao water 010901
Shao water	200901	Shao water 010901
Shao	2009010101	Shao water 010901
Shao	2009010101	Shao water 010901

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[illegible]

Variable	Unit	Year	Source
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Population	1000	2000	World Bank
Population	1000	2010	World Bank
Population	1000	2020	World Bank

10

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1. $\frac{1}{2}$

Approved By: _____
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Signature: _____
Name: _____
Title: _____
Date: _____

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3.4. Example of the Diffusion-Adaptation Process

Study	Sample size	Intervention group	Control group	Outcome	Significance
Study 1 (n=100)	50	50	50	50%	0.05
Study 2 (n=200)	100	100	100	60%	0.01
Study 3 (n=300)	150	150	150	70%	0.001

Source: <http://www.fishbase.org>. Accessed 10/10/2011.

1. [Download the PDF](#)

2017-2018	2017-2018	2017-2018
2017-2018	2017-2018	2017-2018
2017-2018	2017-2018	2017-2018
2017-2018	2017-2018	2017-2018

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Year	1990	1991	1992
1990	100	100	100
1991	100	100	100
1992	100	100	100
1993	100	100	100
1994	100	100	100
1995	100	100	100
1996	100	100	100
1997	100	100	100
1998	100	100	100
1999	100	100	100
2000	100	100	100
2001	100	100	100
2002	100	100	100
2003	100	100	100
2004	100	100	100
2005	100	100	100
2006	100	100	100
2007	100	100	100
2008	100	100	100
2009	100	100	100
2010	100	100	100
2011	100	100	100
2012	100	100	100
2013	100	100	100
2014	100	100	100
2015	100	100	100
2016	100	100	100
2017	100	100	100
2018	100	100	100
2019	100	100	100
2020	100	100	100
2021	100	100	100
2022	100	100	100
2023	100	100	100
2024	100	100	100
2025	100	100	100
2026	100	100	100
2027	100	100	100
2028	100	100	100
2029	100	100	100
2030	100	100	100
2031	100	100	100

^a A value greater than 0.05 was considered non-significant.

Variable	2007-2008			2008-2009	2009-2010
	2007	2008	2009		
1. Total revenue	1000	1000	1000	1000	1000
2. Total cost	500	500	500	500	500
3. Profit	500	500	500	500	500
4. Total revenue	1000	1000	1000	1000	1000
5. Total cost	500	500	500	500	500
6. Profit	500	500	500	500	500
7. Total revenue	1000	1000	1000	1000	1000
8. Total cost	500	500	500	500	500
9. Profit	500	500	500	500	500

เอกสารไม่ควบคุม

Year	Number of cases
1990	10
1991	15
1992	20
1993	25
1994	30
1995	35
1996	40
1997	45
1998	50
1999	55
2000	60
2001	65
2002	70
2003	75
2004	80
2005	85
2006	90
2007	95
2008	100
2009	105
2010	110
2011	115
2012	120
2013	125
2014	130
2015	135
2016	140
2017	145
2018	150
2019	155
2020	160
2021	165
2022	170
2023	175
2024	180
2025	185
2026	190
2027	195
2028	200
2029	205
2030	210

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2012 Ranking	Decline from 2011 (Percentage)			2011 Ranking	2010 Ranking
2012 Ranking	Regional Ranking				
2012 Ranking	North	Center	South	N/A	2010 Ranking
1st	1st	1st	1st		1st
2nd	2nd	2nd	2nd		2nd
3rd	3rd	3rd	3rd		3rd
4th	4th	4th	4th		4th
5th	5th	5th	5th		5th
6th	6th	6th	6th		6th
7th	7th	7th	7th		7th
8th	8th	8th	8th		8th
9th	9th	9th	9th		9th
10th	10th	10th	10th	10th	
11th	11th	11th	11th	11th	
12th	12th	12th	12th	12th	
13th	13th	13th	13th	13th	
14th	14th	14th	14th	14th	
15th	15th	15th	15th	15th	
16th	16th	16th	16th	16th	
17th	17th	17th	17th	17th	
18th	18th	18th	18th	18th	
19th	19th	19th	19th	19th	
20th	20th	20th	20th	20th	
21st	21st	21st	21st	21st	
22nd	22nd	22nd	22nd	22nd	
23rd	23rd	23rd	23rd	23rd	
24th	24th	24th	24th	24th	
25th	25th	25th	25th	25th	
26th	26th	26th	26th	26th	
27th	27th	27th	27th	27th	
28th	28th	28th	28th	28th	
29th	29th	29th	29th	29th	
30th	30th	30th	30th	30th	
31st	31st	31st	31st	31st	
32nd	32nd	32nd	32nd	32nd	
33rd	33rd	33rd	33rd	33rd	
34th	34th	34th	34th	34th	
35th	35th	35th	35th	35th	
36th	36th	36th	36th	36th	
37th	37th	37th	37th	37th	
38th	38th	38th	38th	38th	
39th	39th	39th	39th	39th	
40th	40th	40th	40th	40th	
41st	41st	41st	41st	41st	
42nd	42nd	42nd	42nd	42nd	
43rd	43rd	43rd	43rd	43rd	
44th	44th	44th	44th	44th	
45th	45th	45th	45th	45th	
46th	46th	46th	46th	46th	
47th	47th	47th	47th	47th	
48th	48th	48th	48th	48th	
49th	49th	49th	49th	49th	
50th	50th	50th	50th	50th	
51st	51st	51st	51st	51st	
52nd	52nd	52nd	52nd	52nd	
53rd	53rd	53rd	53rd	53rd	
54th	54th	54th	54th	54th	
55th	55th	55th	55th	55th	
56th	56th	56th	56th	56th	
57th	57th	57th	57th	57th	
58th	58th	58th	58th	58th	
59th	59th	59th	59th	59th	
60th	60th	60th	60th	60th	
61st	61st	61st	61st	61st	
62nd	62nd	62nd	62nd	62nd	
63rd	63rd	63rd	63rd	63rd	
64th	64th	64th	64th	64th	
65th	65th	65th	65th	65th	
66th	66th	66th	66th	66th	
67th	67th	67th	67th	67th	
68th	68th	68th	68th	68th	
69th	69th	69th	69th	69th	
70th	70th	70th	70th	70th	
71st	71st	71st	71st	71st	
72nd	72nd	72nd	72nd	72nd	
73rd	73rd	73rd	73rd	73rd	
74th	74th	74th	74th	74th	
75th	75th	75th	75th	75th	
76th	76th	76th	76th	76th	
77th	77th	77th	77th	77th	
78th	78th	78th	78th	78th	
79th	79th	79th	79th	79th	
80th	80th	80th	80th	80th	
81st	81st	81st	81st	81st	
82nd	82nd	82nd	82nd	82nd	
83rd	83rd	83rd	83rd	83rd	
84th	84th	84th	84th	84th	
85th	85th	85th	85th	85th	
86th	86th	86th	86th	86th	
87th	87th	87th	87th	87th	
88th	88th	88th	88th	88th	
89th	89th	89th	89th	89th	
90th	90th	90th	90th	90th	
91st	91st	91st	91st	91st	
92nd	92nd	92nd	92nd	92nd	
93rd	93rd	93rd	93rd	93rd	
94th	94th	94th	94th	94th	
95th	95th	95th	95th	95th	
96th	96th	96th	96th	96th	
97th	97th	97th	97th	97th	
98th	98th	98th	98th	98th	
99th	99th	99th	99th	99th	
100th	100th	100th	100th	100th	

8. *Suppose you're reading a book.*

2018	2017	2016		2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959	1958	1957	1956	1955	1954	1953	1952	1951	1950	1949	1948	1947	1946	1945	1944	1943	1942	1941	1940	1939	1938	1937	1936	1935	1934	1933	1932	1931	1930	1929	1928	1927	1926	1925	1924	1923	1922	1921	1920	1919	1918	1917	1916	1915	1914	1913	1912	1911	1910	1909	1908	1907	1906	1905	1904	1903	1902	1901	1900	1899	1898	1897	1896	1895	1894	1893	1892	1891	1890	1889	1888	1887	1886	1885	1884	1883	1882	1881	1880	1879	1878	1877	1876	1875	1874	1873	1872	1871	1870	1869	1868	1867	1866	1865	1864	1863	1862	1861	1860	1859	1858	1857	1856	1855	1854	1853	1852	1851	1850	1849	1848	1847	1846	1845	1844	1843	1842	1841	1840	1839	1838	1837	1836	1835	1834	1833	1832	1831	1830	1829	1828	1827	1826	1825	1824	1823	1822	1821	1820	1819	1818	1817	1816	1815	1814	1813	1812	1811	1810	1809	1808	1807	1806	1805	1804	1803	1802	1801	1800	1799	1798	1797	1796	1795	1794	1793	1792	1791	1790	1789	1788	1787	1786	1785	1784	1783	1782	1781	1780	1779	1778	1777	1776	1775	1774	1773	1772	1771	1770	1769	1768	1767	1766	1765	1764	1763	1762	1761	1760	1759	1758	1757	1756	1755	1754	1753	1752	1751	1750	1749	1748	1747	1746	1745	1744	1743	1742	1741	1740	1739	1738	1737	1736	1735	1734	1733	1732	1731	1730	1729	1728	1727	1726	1725	1724	1723	1722	1721	1720	1719	1718	1717	1716	1715	1714	1713	1712	1711	1710	1709	1708	1707	1706	1705	1704	1703	1702	1701	1700	1699	1698	1697	1696	1695	1694	1693	1692	1691	1690	1689	1688	1687	1686	1685	1684	1683	1682	1681	1680	1679
2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959	1958	1957	1956	1955	1954	1953	1952	1951	1950	1949	1948	1947	1946	1945	1944	1943	1942	1941	1940	1939	1938	1937	1936	1935	1934	1933	1932	1931	1930	1929	1928	1927	1926	1925	1924	1923	1922	1921	1920	1919	1918	1917	1916	1915	1914	1913	1912	1911	1910	1909	1908	1907	1906	1905	1904	1903	1902	1901	1900	1899	1898	1897	1896	1895	1894	1893	1892	1891	1890	1889	1888	1887	1886	1885	1884	1883	1882	1881	1880	1879	1878	1877	1876	1875	1874	1873	1872	1871	1870	1869	1868	1867	1866	1865	1864	1863	1862	1861	1860	1859	1858	1857	1856	1855	1854	1853	1852	1851	1850	1849	1848	1847	1846	1845	1844	1843	1842	1841	1840	1839	1838	1837	1836	1835	1834	1833	1832	1831	1830	1829	1828	1827	1826	1825	1824	1823	1822	1821	1820	1819	1818	1817	1816	1815	1814	1813	1812	1811	1810	1809	1808	1807	1806	1805	1804	1803	1802	1801	1800	1799	1798	1797	1796	1795	1794	1793	1792	1791	1790	1789	1788	1787	1786	1785	1784	1783	1782	1781	1780	1779	1778	1777	1776	1775	1774	1773	1772	1771	1770	1769	1768	1767	1766	1765	1764	1763	1762	1761	1760	1759	1758	1757	1756	1755	1754	1753	1752	1751	1750	1749	1748	1747	1746	1745	1744	1743	1742	1741	1740	1739	1738	1737	1736	1735	1734	1733	1732	1731	1730	1729	1728	1727	1726	1725	1724	1723	1722	1721	1720	1719	1718	1717	1716	1715	1714	1713	1712	1711	1710	1709	1708	1707	1706	1705	1704	1703	1702	1701	1700	1699	1698	1697	1696	1695	1694	1693	1692	1691	1690	1689	1688	1687	1686	1685	1684	1683	1682	1681	1680	1679	

[illegible]

เอกสารไม่ควบคุม

เอกสารไม่ควบคุม

REPORT OF CALIBRATION

FOR

INSTRUMENT : ☒ FREQUENCY METER
 MEASUREMENT : ☒ FREQUENCY
 MODEL / TYPE : ☒ HIOKI 3569-50
 SERIAL NO. : ☒ 150100001029
 DATE OF CALIBRATION : ☒ 22 September 2022

ENVIRONMENT CONDITIONS :

Temperature : ☒ 23.2 ± 0.1 °C

Relative Humidity : ☒ 65 ± 5 % RH

PROCEDURE USED :

Specifications of the instrument provided by the manufacturer and the calibration procedure used.

The calibration was performed using the following equipment: High Precision Frequency Standard, Frequency and Timing Analyzer which are calibrated by the Calibration Laboratory Co., Ltd.

REFERENCE STANDARDS :

1. Japan Electronic Standard Model 5000 100 MHz
2. High Precision Frequency Standard (Japan Electronic Model 5000 100 MHz)
3. Frequency and Timing Analyzer (Japan Electronic Model 5000 100 MHz)

UNCERTAINTY :

1. The uncertainty is expressed in terms of the standard deviation of the mean of the results of the calibration.
2. The uncertainty is expressed in terms of the standard deviation of the mean of the results of the calibration.
3. The uncertainty is expressed in terms of the standard deviation of the mean of the results of the calibration.
4. The uncertainty is expressed in terms of the standard deviation of the mean of the results of the calibration.
5. The uncertainty is expressed in terms of the standard deviation of the mean of the results of the calibration.

CONCLUSION :

The calibration results of the instrument are in good agreement with the reference standards. The results of the calibration are within the limits of the uncertainty of the calibration.

Calibration No. 22090000

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เอกสารไม่ควบคุม

CERTIFICATE OF CALIBRATION

MEASUREMENT : ☒ FREQUENCY METER

CALIBRATION DATA

Frequency	Unit	100 Hz	1 kHz	10 kHz	100 kHz
100 Hz	100 Hz	100.0000	100.0000	100.0000	100.0000
1 kHz	1 kHz	1000.0000	1000.0000	1000.0000	1000.0000
10 kHz	10 kHz	10000.0000	10000.0000	10000.0000	10000.0000
100 kHz	100 kHz	100000.0000	100000.0000	100000.0000	100000.0000
1 MHz	1 MHz	1000000.0000	1000000.0000	1000000.0000	1000000.0000
10 MHz	10 MHz	10000000.0000	10000000.0000	10000000.0000	10000000.0000
100 MHz	100 MHz	100000000.0000	100000000.0000	100000000.0000	100000000.0000
1 GHz	1 GHz	1000000000.0000	1000000000.0000	1000000000.0000	1000000000.0000

UNCERTAINTY DATA

Frequency	Unit	100 Hz	1 kHz	10 kHz	100 kHz
100 Hz	100 Hz	100.0000	100.0000	100.0000	100.0000
1 kHz	1 kHz	1000.0000	1000.0000	1000.0000	1000.0000
10 kHz	10 kHz	10000.0000	10000.0000	10000.0000	10000.0000
100 kHz	100 kHz	100000.0000	100000.0000	100000.0000	100000.0000
1 MHz	1 MHz	1000000.0000	1000000.0000	1000000.0000	1000000.0000
10 MHz	10 MHz	10000000.0000	10000000.0000	10000000.0000	10000000.0000
100 MHz	100 MHz	100000000.0000	100000000.0000	100000000.0000	100000000.0000
1 GHz	1 GHz	1000000000.0000	1000000000.0000	1000000000.0000	1000000000.0000

Calibration No. 22090000

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CALIBRATION DATA

1. INSTRUMENT USED

Frequency	Unit	100 Hz	1 kHz	10 kHz	100 kHz
100 Hz	100 Hz	100.0000	100.0000	100.0000	100.0000
1 kHz	1 kHz	1000.0000	1000.0000	1000.0000	1000.0000
10 kHz	10 kHz	10000.0000	10000.0000	10000.0000	10000.0000
100 kHz	100 kHz	100000.0000	100000.0000	100000.0000	100000.0000
1 MHz	1 MHz	1000000.0000	1000000.0000	1000000.0000	1000000.0000
10 MHz	10 MHz	10000000.0000	10000000.0000	10000000.0000	10000000.0000
100 MHz	100 MHz	100000000.0000	100000000.0000	100000000.0000	100000000.0000
1 GHz	1 GHz	1000000000.0000	1000000000.0000	1000000000.0000	1000000000.0000

Calibration No. 22090000

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เอกสารไม่ควบคุม

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CERTIFICATE OF CALIBRATION

FOR

INSTRUMENT : ☒ FREQUENCY METER
 MEASUREMENT : ☒ FREQUENCY
 MODEL / TYPE : ☒ HIOKI 3569-50
 SERIAL NO. : ☒ 150100001029
 DATE OF CALIBRATION : ☒ 22 September 2022

Calibration No. 22090000

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Calibration No. 22090000

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Calibration No. 22090000

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เอกสารไม่ควบคุม

ขอบคุณ

REPORT OF CALIBRATION

FOR

INSTRUMENT : THERMISTOR METER
 MANUFACTURER : OMEGA
 MODEL / TYPE : TSC1000-750-0000
 SERIAL NO : 20140000000000
 DATE OF CALIBRATION : 21 September 2022

EXAMINER'S COMMENTS :

Temperature : 25.00 °C Relative Humidity : 50% ± 5%

PROCEDURE USED :

The instrument is calibrated against a standard by TSC1000-750-0000 in accordance with the calibration procedure.
 The calibration is performed by using a standard temperature, humidity, and relative humidity.
 The instrument is calibrated against a standard by TSC1000-750-0000 in accordance with the calibration procedure.

REFERENCE STANDARDS :

1. Temperature Measurement ISO 9001:2015
2. High Accuracy Temperature Measurement ISO 9001:2015
3. Accuracy of Temperature Measurement ISO 9001:2015

REMARKS :

1. The instrument is calibrated against a standard by TSC1000-750-0000 in accordance with the calibration procedure.
2. The instrument is calibrated against a standard by TSC1000-750-0000 in accordance with the calibration procedure.
3. The instrument is calibrated against a standard by TSC1000-750-0000 in accordance with the calibration procedure.
4. The instrument is calibrated against a standard by TSC1000-750-0000 in accordance with the calibration procedure.

INCIDENTAL :

The instrument is calibrated against a standard by TSC1000-750-0000 in accordance with the calibration procedure.
 The instrument is calibrated against a standard by TSC1000-750-0000 in accordance with the calibration procedure.
 The instrument is calibrated against a standard by TSC1000-750-0000 in accordance with the calibration procedure.

Calibrated by: 0209000000

2022-09-21

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เอกสารไม่ควบคุม

CERTIFICATE OF CALIBRATION

MEASUREMENT RESULTS AND CALIBRATION RESULTS : Full compliance

CALIBRATION DATA

1. MEASUREMENT RESULTS

Item	Parameter	Unit	Measured Value	Reference Value	Uncertainty	Compliance
1.1	Temperature	°C	25.00	25.00	±0.01	Pass
1.2	Relative Humidity	%RH	50.00	50.00	±0.50	Pass
1.3	Temperature	°C	25.00	25.00	±0.01	Pass
1.4	Relative Humidity	%RH	50.00	50.00	±0.50	Pass
1.5	Temperature	°C	25.00	25.00	±0.01	Pass
1.6	Relative Humidity	%RH	50.00	50.00	±0.50	Pass
1.7	Temperature	°C	25.00	25.00	±0.01	Pass
1.8	Relative Humidity	%RH	50.00	50.00	±0.50	Pass
1.9	Temperature	°C	25.00	25.00	±0.01	Pass
1.10	Relative Humidity	%RH	50.00	50.00	±0.50	Pass

2. VALIDITY PERIOD

Item	Parameter	Unit	Measured Value	Reference Value	Uncertainty	Compliance
2.1	Temperature	°C	25.00	25.00	±0.01	Pass
2.2	Relative Humidity	%RH	50.00	50.00	±0.50	Pass
2.3	Temperature	°C	25.00	25.00	±0.01	Pass
2.4	Relative Humidity	%RH	50.00	50.00	±0.50	Pass
2.5	Temperature	°C	25.00	25.00	±0.01	Pass
2.6	Relative Humidity	%RH	50.00	50.00	±0.50	Pass
2.7	Temperature	°C	25.00	25.00	±0.01	Pass
2.8	Relative Humidity	%RH	50.00	50.00	±0.50	Pass
2.9	Temperature	°C	25.00	25.00	±0.01	Pass
2.10	Relative Humidity	%RH	50.00	50.00	±0.50	Pass

Calibrated by: 0209000000

2022-09-21

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เอกสารไม่ควบคุม

CERTIFICATE OF CALIBRATION

1. MEASUREMENT RESULTS

Item	Parameter	Unit	Measured Value	Reference Value	Uncertainty	Compliance
1.1	Temperature	°C	25.00	25.00	±0.01	Pass
1.2	Relative Humidity	%RH	50.00	50.00	±0.50	Pass
1.3	Temperature	°C	25.00	25.00	±0.01	Pass
1.4	Relative Humidity	%RH	50.00	50.00	±0.50	Pass
1.5	Temperature	°C	25.00	25.00	±0.01	Pass
1.6	Relative Humidity	%RH	50.00	50.00	±0.50	Pass
1.7	Temperature	°C	25.00	25.00	±0.01	Pass
1.8	Relative Humidity	%RH	50.00	50.00	±0.50	Pass
1.9	Temperature	°C	25.00	25.00	±0.01	Pass
1.10	Relative Humidity	%RH	50.00	50.00	±0.50	Pass

Note: 1. The instrument is calibrated against a standard by TSC1000-750-0000 in accordance with the calibration procedure.

Calibrated by: 0209000000 2022-09-21

This report is valid for the calibration period only.

Calibrated by: 0209000000

2022-09-21

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เอกสารไม่ควบคุม

CERTIFICATE OF CALIBRATION

FOR

INSTRUMENT : THERMISTOR METER
 MANUFACTURER : OMEGA
 MODEL / TYPE : TSC1000-750-0000
 SERIAL NO : 20140000000000
 DATE OF CALIBRATION : 21 September 2022

APPROVED BY : 0209000000
 APPROVED BY : 0209000000
 APPROVED BY : 0209000000

Calibrated by: 0209000000 2022-09-21

2022-09-21

This report is valid for the calibration period only.

Calibrated by:

0209000000

2022-09-21

Approved by:

0209000000

2022-09-21

This report is valid for the calibration period only.

Calibrated by: 0209000000

2022-09-21

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เอกสารไม่ควบคุม

เอกสารไม่ควบคุม

เอกสารไม่ควบคุม

REPORT OF CALIBRATION

FOR

NUMERICAL UNIT : TEMPERATURE
 MEASUREMENT : 100.0000
 MODEL : 100.0000
 SERIAL NO. : 100.0000
 DATE OF CALIBRATION : 25. March 2025

ENVIRONMENTAL CONDITIONS

Temperature : 20.0 ± 0.5 °C Relative Humidity : 20.0 ± 0.5 %

PROCEDURE USED

The measurement was performed in accordance with the ISO 9001:2015 standard for the purpose of calibration.
 The calibration was performed using Digital Thermometer, Calibration Certificate, and Measurement Uncertainty.
 The measurement uncertainty was calculated using the following formula:

MEASUREMENT RESULTS

1. Digital Thermometer, Model: 100.0000, 100.0000
2. Calibration Certificate, 100.0000, 100.0000
3. Measurement Uncertainty, 100.0000, 100.0000, 100.0000

CONCLUSION

1. The measurement results are in accordance with the ISO 9001:2015 standard for the purpose of calibration.
2. The measurement results are in accordance with the ISO 9001:2015 standard for the purpose of calibration.
3. The measurement results are in accordance with the ISO 9001:2015 standard for the purpose of calibration.

REMARKS

The measurement results are in accordance with the ISO 9001:2015 standard for the purpose of calibration.
 The measurement results are in accordance with the ISO 9001:2015 standard for the purpose of calibration.
 The measurement results are in accordance with the ISO 9001:2015 standard for the purpose of calibration.

Signature: 25/25/2525

Date: 25/25/2525

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เอกสารไม่ควบคุม

CERTIFICATE OF CALIBRATION

MEASUREMENT : 100.0000 ± 0.0000 adjustment : 100.0000
 CALIBRATION NO. : 100.0000

1. MEASUREMENT RESULTS

Item	Unit	100.0000	100.0000	100.0000	100.0000
1.0	100.0000	100.0000	100.0000	100.0000	100.0000
2.0	100.0000	100.0000	100.0000	100.0000	100.0000
3.0	100.0000	100.0000	100.0000	100.0000	100.0000
4.0	100.0000	100.0000	100.0000	100.0000	100.0000
5.0	100.0000	100.0000	100.0000	100.0000	100.0000
6.0	100.0000	100.0000	100.0000	100.0000	100.0000
7.0	100.0000	100.0000	100.0000	100.0000	100.0000
8.0	100.0000	100.0000	100.0000	100.0000	100.0000
9.0	100.0000	100.0000	100.0000	100.0000	100.0000
10.0	100.0000	100.0000	100.0000	100.0000	100.0000
11.0	100.0000	100.0000	100.0000	100.0000	100.0000
12.0	100.0000	100.0000	100.0000	100.0000	100.0000

2. MEASUREMENT RESULTS

Item	Unit	100.0000	100.0000	100.0000	100.0000
1.0	100.0000	100.0000	100.0000	100.0000	100.0000
2.0	100.0000	100.0000	100.0000	100.0000	100.0000
3.0	100.0000	100.0000	100.0000	100.0000	100.0000
4.0	100.0000	100.0000	100.0000	100.0000	100.0000
5.0	100.0000	100.0000	100.0000	100.0000	100.0000
6.0	100.0000	100.0000	100.0000	100.0000	100.0000
7.0	100.0000	100.0000	100.0000	100.0000	100.0000
8.0	100.0000	100.0000	100.0000	100.0000	100.0000
9.0	100.0000	100.0000	100.0000	100.0000	100.0000
10.0	100.0000	100.0000	100.0000	100.0000	100.0000
11.0	100.0000	100.0000	100.0000	100.0000	100.0000
12.0	100.0000	100.0000	100.0000	100.0000	100.0000

Signature: 25/25/2525

Date: 25/25/2525

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เอกสารไม่ควบคุม

CERTIFICATE OF CALIBRATION

1. MEASUREMENT RESULTS

Item	Unit	100.0000	100.0000	100.0000	100.0000
1.0	100.0000	100.0000	100.0000	100.0000	100.0000
2.0	100.0000	100.0000	100.0000	100.0000	100.0000
3.0	100.0000	100.0000	100.0000	100.0000	100.0000
4.0	100.0000	100.0000	100.0000	100.0000	100.0000
5.0	100.0000	100.0000	100.0000	100.0000	100.0000
6.0	100.0000	100.0000	100.0000	100.0000	100.0000
7.0	100.0000	100.0000	100.0000	100.0000	100.0000
8.0	100.0000	100.0000	100.0000	100.0000	100.0000
9.0	100.0000	100.0000	100.0000	100.0000	100.0000
10.0	100.0000	100.0000	100.0000	100.0000	100.0000
11.0	100.0000	100.0000	100.0000	100.0000	100.0000
12.0	100.0000	100.0000	100.0000	100.0000	100.0000

The measurement results are in accordance with the ISO 9001:2015 standard for the purpose of calibration.

Signature: 25/25/2525 Date: 25/25/2525

Management added for the document calibration certificate

25/25/2525

Signature: 25/25/2525

Date: 25/25/2525

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เอกสารไม่ควบคุม

CERTIFICATE OF CALIBRATION

FOR

NUMERICAL UNIT : TEMPERATURE
 MEASUREMENT : 100.0000
 MODEL : 100.0000
 SERIAL NO. : 100.0000
 DATE OF CALIBRATION : 25. March 2025

MEASUREMENT : 100.0000 ± 0.0000 adjustment : 100.0000
 CALIBRATION NO. : 100.0000

Signature: 25/25/2525

Date: 25/25/2525

Signature: 25/25/2525 Date: 25/25/2525

Signature: 25/25/2525

Signature: 25/25/2525



Signature: 25/25/2525 Date: 25/25/2525

Signature: 25/25/2525

Date: 25/25/2525

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เอกสารไม่ควบคุม



REPORT OF CALIBRATION FOR

INSTRUMENT : **TEMPERATURE**
 MANUFACTURER : **HOLOGRA**
 MODEL / TYPE : **TH-1000-1000**
 SERIAL NO : **0100000000**
 DATE OF CALIBRATION : **16 March 2022**

SYNOPSIS COMMENTS :

Instrument : **TH-1000-1000** Serial Number : **0100000000**

REFERENCE INFO :

The instrument is calibrated with reference to the following standards and methods:
 The calibration was performed by using the following methods:
 The calibration was performed by using the following methods:

REFERENCE INFORMATION :

1. Calibration Certificate No. 0100000000
2. Calibration Certificate No. 0100000000
3. Calibration Certificate No. 0100000000

REMARKS :

1. The instrument is calibrated with reference to the following standards and methods:
The calibration was performed by using the following methods:
The calibration was performed by using the following methods:
2. The instrument is calibrated with reference to the following standards and methods:
The calibration was performed by using the following methods:
The calibration was performed by using the following methods:
3. The instrument is calibrated with reference to the following standards and methods:
The calibration was performed by using the following methods:
The calibration was performed by using the following methods:

UNCERTAINTY :

The uncertainty of the measurement is expressed as a percentage of the measured value.
 The uncertainty is expressed as a percentage of the measured value.
 The uncertainty is expressed as a percentage of the measured value.

Calibration No. 0100000000

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เอกสารไม่ควบคุม



CERTIFICATE OF CALIBRATION

MANUFACTURER : **HOLOGRA**

MODEL / TYPE : **TH-1000-1000**

1. CALIBRATION RESULTS

Parameter	Unit	Calculated	Measured	Uncertainty	Remarks
1.1	1.0000	1.0000	1.0000	0.0000	
1.2	1.0000	1.0000	1.0000	0.0000	
1.3	1.0000	1.0000	1.0000	0.0000	
1.4	1.0000	1.0000	1.0000	0.0000	
1.5	1.0000	1.0000	1.0000	0.0000	
1.6	1.0000	1.0000	1.0000	0.0000	
1.7	1.0000	1.0000	1.0000	0.0000	
1.8	1.0000	1.0000	1.0000	0.0000	
1.9	1.0000	1.0000	1.0000	0.0000	
1.10	1.0000	1.0000	1.0000	0.0000	
1.11	1.0000	1.0000	1.0000	0.0000	
1.12	1.0000	1.0000	1.0000	0.0000	
1.13	1.0000	1.0000	1.0000	0.0000	
1.14	1.0000	1.0000	1.0000	0.0000	
1.15	1.0000	1.0000	1.0000	0.0000	

2. CALIBRATION RESULTS

Parameter	Unit	Calculated	Measured	Uncertainty	Remarks
2.1	1.0000	1.0000	1.0000	0.0000	
2.2	1.0000	1.0000	1.0000	0.0000	
2.3	1.0000	1.0000	1.0000	0.0000	
2.4	1.0000	1.0000	1.0000	0.0000	
2.5	1.0000	1.0000	1.0000	0.0000	
2.6	1.0000	1.0000	1.0000	0.0000	
2.7	1.0000	1.0000	1.0000	0.0000	
2.8	1.0000	1.0000	1.0000	0.0000	
2.9	1.0000	1.0000	1.0000	0.0000	
2.10	1.0000	1.0000	1.0000	0.0000	
2.11	1.0000	1.0000	1.0000	0.0000	
2.12	1.0000	1.0000	1.0000	0.0000	
2.13	1.0000	1.0000	1.0000	0.0000	
2.14	1.0000	1.0000	1.0000	0.0000	
2.15	1.0000	1.0000	1.0000	0.0000	

Calibration No. 0100000000

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เอกสารไม่ควบคุม



CALIBRATION DATA

1. CALIBRATION RESULTS

Parameter	Unit	Calculated	Measured	Uncertainty	Remarks
1.1	1.0000	1.0000	1.0000	0.0000	
1.2	1.0000	1.0000	1.0000	0.0000	
1.3	1.0000	1.0000	1.0000	0.0000	
1.4	1.0000	1.0000	1.0000	0.0000	
1.5	1.0000	1.0000	1.0000	0.0000	
1.6	1.0000	1.0000	1.0000	0.0000	
1.7	1.0000	1.0000	1.0000	0.0000	
1.8	1.0000	1.0000	1.0000	0.0000	
1.9	1.0000	1.0000	1.0000	0.0000	
1.10	1.0000	1.0000	1.0000	0.0000	
1.11	1.0000	1.0000	1.0000	0.0000	
1.12	1.0000	1.0000	1.0000	0.0000	
1.13	1.0000	1.0000	1.0000	0.0000	
1.14	1.0000	1.0000	1.0000	0.0000	
1.15	1.0000	1.0000	1.0000	0.0000	

Calibration No. 0100000000

Page 1 of 1

The report is valid for the period of validity.

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เอกสารไม่ควบคุม



CERTIFICATE OF CALIBRATION

FOR

INSTRUMENT : **TEMPERATURE**
 MANUFACTURER : **HOLOGRA**
 MODEL / TYPE : **TH-1000-1000**
 SERIAL NO : **0100000000**
 DATE OF CALIBRATION : **16 March 2022**

Calibration No. 0100000000

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Calibration No. 0100000000

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Calibration No. 0100000000

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เอกสารไม่ควบคุม





REPORT OF CALIBRATION

FOR

NUMERICALITY : VERIFICATION MECHANISM
 MANUFACTURER : FIVE STAR
 MODEL / TYPE : FIVE STAR 1000
 SERIAL NO. : FIVE STAR 1000
 DATE OF CALIBRATION : 22 February 2022

ENVIRONMENTAL CONDITIONS :

Temperature : 22.5 ± 0.5 °C Humidity : 60 ± 5 % RH

PROCEDURE USED :

The instrument was calibrated with reference to the NIST 1013-1014 (1000) and 1013-1015 (1000) standards. The calibration was performed by using digital multimeter, High Precision Frequency Counter, and other necessary equipment which is traceable to the Calibration Laboratory Co., Ltd.

REFERENCE STANDARDS USED :

1. Digital Multimeter, Reference Standard, 1013-1014, 1000
2. High Precision Frequency Counter, Reference Standard, 1013-1015, 1000
3. Measurement and calibration equipment, which is traceable to the Calibration Laboratory Co., Ltd.

UNCERTAINTY :

1. The measurement uncertainty is determined based on the 95% coverage factor of the standard deviation.
2. The measurement uncertainty is determined based on the 95% coverage factor of the standard deviation.
3. The measurement uncertainty is determined based on the 95% coverage factor of the standard deviation.
4. The measurement uncertainty is determined based on the 95% coverage factor of the standard deviation.

LABORATORY :

The measurement uncertainty of the instrument is within the acceptable range of the measurement uncertainty. The measurement uncertainty is determined based on the 95% coverage factor of the standard deviation.

Signature of the Engineer

Signature of the Engineer

Page 1 of 1

เอกสารไม่ควบคุม



CERTIFICATE OF CALIBRATION

NUMERICALITY : VERIFICATION MECHANISM

MANUFACTURER : FIVE STAR

MODEL / TYPE : FIVE STAR 1000

SERIAL NO. : FIVE STAR 1000

DATE OF CALIBRATION : 22 February 2022

Signature of the Engineer

Signature of the Engineer

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REPORT OF CALIBRATION

FOR

INSTRUMENT : VIBRATION METER
 MANUFACTURER : SHIMADZU
 MODEL / TYPE : TD3000C001
 SERIAL NO : 602007361000
 DATE OF CALIBRATION : 25 September 2022

EXPERIMENTAL CONDITIONS

Temperature : 25.1 °C Humidity : 65% RH

MEASURING TOOL

The measuring tool used was calibrated by CLL ANAB before on 08 October 2022 according to procedure

The calibration was performed using Digital Frequency High Resolution Frequency Counter

Uncertainty and Maximum Measurable Error are summarized in Calibration Certificate No. 02

REFERENCE DOCUMENTS

1. Digital Oscilloscope, Shimadzu Model TD3000C001
2. High Precision Frequency Measurement, Pulse-Height Measurement Accuracy
3. Measurement and Testing, Frequency and Time Measurement, ISO 9001:2015, Section 8.5.3.2

TRACEABILITY

1. The measurement is traceable to national system of units through assigned value of Standard and Calibration Certificate No. 00000000000000000000
2. The measurement is traceable to national system of units through assigned value of Standard and Calibration Certificate No. 00000000000000000000
3. The measurement is traceable to national system of units through assigned value of Standard and Calibration Certificate No. 00000000000000000000

CERTIFICATION

1. The calibration is performed in accordance with the calibration procedure of measurement equipment
2. The calibration is performed in accordance with the calibration procedure of measurement equipment
3. The calibration is performed in accordance with the calibration procedure of measurement equipment

Calibration No. 02000000

Date 25/09/2022

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เอกสารไม่ควบคุม



CERTIFICATE OF CALIBRATION

MEASUREMENT SERVICE : VIBRATION METER
 CALIBRATION DATA

1. ACCELERATION METER

Channel	Unit	2022 Reading	2021 Reading	Correction	Uncertainty
1 (1000 Hz)	g	1.000	1.000	0.000	±0.001
2 (1000 Hz)	g	1.000	1.000	0.000	±0.001
3 (1000 Hz)	g	1.000	1.000	0.000	±0.001
4 (1000 Hz)	g	1.000	1.000	0.000	±0.001
5 (1000 Hz)	g	1.000	1.000	0.000	±0.001
6 (1000 Hz)	g	1.000	1.000	0.000	±0.001
7 (1000 Hz)	g	1.000	1.000	0.000	±0.001
8 (1000 Hz)	g	1.000	1.000	0.000	±0.001
9 (1000 Hz)	g	1.000	1.000	0.000	±0.001
10 (1000 Hz)	g	1.000	1.000	0.000	±0.001

2. FREQUENCY METER

Channel	Unit	2022 Reading	2021 Reading	Correction	Uncertainty
1 (1000 Hz)	Hz	1000	1000	0.000	±0.001
2 (1000 Hz)	Hz	1000	1000	0.000	±0.001
3 (1000 Hz)	Hz	1000	1000	0.000	±0.001
4 (1000 Hz)	Hz	1000	1000	0.000	±0.001
5 (1000 Hz)	Hz	1000	1000	0.000	±0.001
6 (1000 Hz)	Hz	1000	1000	0.000	±0.001
7 (1000 Hz)	Hz	1000	1000	0.000	±0.001
8 (1000 Hz)	Hz	1000	1000	0.000	±0.001
9 (1000 Hz)	Hz	1000	1000	0.000	±0.001
10 (1000 Hz)	Hz	1000	1000	0.000	±0.001

Calibration No. 02000000

Date 25/09/2022

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เอกสารไม่ควบคุม



CERTIFICATE OF CALIBRATION

MEASUREMENT SERVICE

Channel	Unit	2022 Reading	2021 Reading	Correction	Uncertainty
1 (1000 Hz)	Hz	1000	1000	0.000	±0.001
2 (1000 Hz)	Hz	1000	1000	0.000	±0.001
3 (1000 Hz)	Hz	1000	1000	0.000	±0.001
4 (1000 Hz)	Hz	1000	1000	0.000	±0.001
5 (1000 Hz)	Hz	1000	1000	0.000	±0.001
6 (1000 Hz)	Hz	1000	1000	0.000	±0.001
7 (1000 Hz)	Hz	1000	1000	0.000	±0.001
8 (1000 Hz)	Hz	1000	1000	0.000	±0.001
9 (1000 Hz)	Hz	1000	1000	0.000	±0.001
10 (1000 Hz)	Hz	1000	1000	0.000	±0.001

The instrument is calibrated in accordance with the calibration procedure of measurement equipment

The instrument is calibrated in accordance with the calibration procedure of measurement equipment

This report is valid for the period of 12 months only.

Date of Calibration

Calibration No. 02000000

Date 25/09/2022

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เอกสารไม่ควบคุม



CERTIFICATE OF CALIBRATION

FOR

INSTRUMENT : VIBRATION METER
 MANUFACTURER : SHIMADZU
 MODEL / TYPE : TD3000C001
 SERIAL NO : 602007361000
 DATE NO : 00000000
 JOB NUMBER, NO : 00000000

Calibration No. 02000000
 Date 25/09/2022

Calibration No. 02000000

Date 25/09/2022

This report is valid for the period of 12 months only.

Calibrated By :

Date: 25/09/2022
 Calibration Engineer

Approved By :

Date: 25/09/2022
 Calibration Engineer



This calibration is performed in accordance with the calibration procedure of measurement equipment

Calibration No. 02000000

Date 25/09/2022

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เอกสารไม่ควบคุม





REPORT OF CALIBRATION

FOR

CLIENT : **THAI FISH OFFICE**
 SAMPLE : **INSTANT**
 MODEL / TYPE : **TECHNICAL**
 SERIAL No. : **0000000000**
 DATE OF CALIBRATION : **10 March 2023**

STANDARD INFORMATION :

Measurement : **g/kN** Scale : **0.001 g/kN**

MEASURED VALUE :

The measurement is performed in accordance with ISO 9001:2015 and ISO 17025:2017 for calibration purposes.
 The calibration is performed in accordance with the Calibration Certificate. The calibration is performed in accordance with the Calibration Certificate.

REFERENCE INFORMATION :

1. Calibration Certificate No. 0000000000
2. Calibration Certificate No. 0000000000
3. Calibration Certificate No. 0000000000

REMARKS :

1. The measurement is performed in accordance with the Calibration Certificate.
2. The measurement is performed in accordance with the Calibration Certificate.
3. The measurement is performed in accordance with the Calibration Certificate.

DISCLAIMER :

The calibration is performed in accordance with the Calibration Certificate. The calibration is performed in accordance with the Calibration Certificate. The calibration is performed in accordance with the Calibration Certificate.

Calibrated by : **00000000**

0000000000

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เอกสารไม่ควบคุม



CERTIFICATE OF CALIBRATION

MEASUREMENT RESULTS : **g/kN** Calibration : **0000000000**

CALIBRATION DATA

1. MEASUREMENT RESULTS

Sample	Unit	2023 Meas.	2023 Meas.	Previous	Uncertainty
1.1	g/kN	0.001	0.001	0.001	0.001
1.2	g/kN	0.001	0.001	0.001	0.001
1.3	g/kN	0.001	0.001	0.001	0.001
1.4	g/kN	0.001	0.001	0.001	0.001
1.5	g/kN	0.001	0.001	0.001	0.001
1.6	g/kN	0.001	0.001	0.001	0.001
1.7	g/kN	0.001	0.001	0.001	0.001
1.8	g/kN	0.001	0.001	0.001	0.001
1.9	g/kN	0.001	0.001	0.001	0.001
2.0	g/kN	0.001	0.001	0.001	0.001
2.1	g/kN	0.001	0.001	0.001	0.001
2.2	g/kN	0.001	0.001	0.001	0.001
2.3	g/kN	0.001	0.001	0.001	0.001
2.4	g/kN	0.001	0.001	0.001	0.001
2.5	g/kN	0.001	0.001	0.001	0.001

2. SAMPLES RESULTS

Sample	Unit	2023 Meas.	2023 Meas.	Previous	Uncertainty
1.1	g/kN	0.001	0.001	0.001	0.001
1.2	g/kN	0.001	0.001	0.001	0.001
1.3	g/kN	0.001	0.001	0.001	0.001
1.4	g/kN	0.001	0.001	0.001	0.001
1.5	g/kN	0.001	0.001	0.001	0.001
1.6	g/kN	0.001	0.001	0.001	0.001
1.7	g/kN	0.001	0.001	0.001	0.001
1.8	g/kN	0.001	0.001	0.001	0.001
1.9	g/kN	0.001	0.001	0.001	0.001
2.0	g/kN	0.001	0.001	0.001	0.001
2.1	g/kN	0.001	0.001	0.001	0.001
2.2	g/kN	0.001	0.001	0.001	0.001
2.3	g/kN	0.001	0.001	0.001	0.001
2.4	g/kN	0.001	0.001	0.001	0.001
2.5	g/kN	0.001	0.001	0.001	0.001

Calibrated by : **00000000**

0000000000

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เอกสารไม่ควบคุม



CALIBRATION DATA

1. MEASUREMENT RESULTS

Sample	Unit	2023 Meas.	2023 Meas.	Previous	Uncertainty
1.1	g/kN	0.001	0.001	0.001	0.001
1.2	g/kN	0.001	0.001	0.001	0.001
1.3	g/kN	0.001	0.001	0.001	0.001
1.4	g/kN	0.001	0.001	0.001	0.001
1.5	g/kN	0.001	0.001	0.001	0.001
1.6	g/kN	0.001	0.001	0.001	0.001
1.7	g/kN	0.001	0.001	0.001	0.001
1.8	g/kN	0.001	0.001	0.001	0.001
1.9	g/kN	0.001	0.001	0.001	0.001
2.0	g/kN	0.001	0.001	0.001	0.001
2.1	g/kN	0.001	0.001	0.001	0.001
2.2	g/kN	0.001	0.001	0.001	0.001
2.3	g/kN	0.001	0.001	0.001	0.001
2.4	g/kN	0.001	0.001	0.001	0.001
2.5	g/kN	0.001	0.001	0.001	0.001

The "Previous Calibration Result" is not available. The calibration is performed in accordance with the Calibration Certificate.

The Report is valid for 12 months from the date of calibration.

The report is valid for 12 months from the date of calibration.

0000000000

Calibrated by : **00000000**

0000000000

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เอกสารไม่ควบคุม



CERTIFICATE OF CALIBRATION

FOR

CLIENT : **THAI FISH OFFICE**
 SAMPLE : **INSTANT**
 MODEL / TYPE : **TECHNICAL**
 SERIAL No. : **0000000000**
 DATE OF CALIBRATION : **10 March 2023**

Calibrated by : **00000000** and **00000000** Calibration : **0000000000**

0000000000

0000000000

Calibrated by : **00000000**

0000000000

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เอกสารไม่ควบคุม

Calibrated by :

0000000000

0000000000

Approved By :

0000000000

0000000000

0000000000

The calibration is performed in accordance with the Calibration Certificate. The calibration is performed in accordance with the Calibration Certificate.

The Report is valid for 12 months from the date of calibration.

Calibrated by : **00000000**

0000000000

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เอกสารไม่ควบคุม

REPORT OF CALIBRATION

FOR

IDENTIFICATION : FORCE EXERTER
 MANUFACTURER : HANDEX
 MODEL / TYPE : TGA300TGA300
 SERIAL NO. : 00100000100
 DATE OF CALIBRATION : 10 February 2020

ENVIRONMENTAL CONDITIONS :

Temperature : 23.2 ± 0.5 °C Airborne Humidity : 48 ± 2.0 %RH

PROBABLE USE :

This instrument is suitable for use as a force for the force exerter for the force exerter.
 The instrument is used for the force exerter for the force exerter.
 The instrument is used for the force exerter for the force exerter.

REFERENCE MEASUREMENT :

1. Reference Measurement : Force Exertion (ISO 9001:2015)
2. High Accuracy & Precision : Force Exertion (ISO 9001:2015)
3. Reference Measurement : Force Exertion (ISO 9001:2015)

CONFORMITY :

1. The instrument is suitable for use as a force for the force exerter for the force exerter.
2. The instrument is suitable for use as a force for the force exerter for the force exerter.
3. The instrument is suitable for use as a force for the force exerter for the force exerter.
4. The instrument is suitable for use as a force for the force exerter for the force exerter.

CONFORMITY :

1. The instrument is suitable for use as a force for the force exerter for the force exerter.
2. The instrument is suitable for use as a force for the force exerter for the force exerter.
3. The instrument is suitable for use as a force for the force exerter for the force exerter.
4. The instrument is suitable for use as a force for the force exerter for the force exerter.

Calibration No. 00100000100

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เอกสารไม่ควบคุม

CERTIFICATE OF CALIBRATION

MEASUREMENT : FORCE EXERTER (ISO 9001:2015) / Instrument

CALIBRATION No. 00100000100

1. DECLARATION RESULT :

Item		Unit	2019 Reading		Corrected	Uncertainty
Tag 1	Tag 2		Tag 1	Tag 2	Tag 1	2019 Reading 1
1.1	1000	N	1000	1000	1000	1.0
1.2	1000		1000	1000	1000	1.0
1.3	1000		1000	1000	1000	1.0
1.4	1000		1000	1000	1000	1.0
1.5	1000		1000	1000	1000	1.0
1.6	1000	N	1000	1000	1000	1.0
1.7	1000		1000	1000	1000	1.0
1.8	1000		1000	1000	1000	1.0
1.9	1000		1000	1000	1000	1.0
1.10	1000		1000	1000	1000	1.0

2. MEASUREMENT :

Item		Unit	2019 Reading		Corrected	Uncertainty
Tag 1	Tag 2		Tag 1	Tag 2	Tag 1	2019 Reading 1
2.1	1000	N	1000	1000	1000	1.0
2.2	1000		1000	1000	1000	1.0
2.3	1000		1000	1000	1000	1.0
2.4	1000		1000	1000	1000	1.0
2.5	1000		1000	1000	1000	1.0
2.6	1000	N	1000	1000	1000	1.0
2.7	1000		1000	1000	1000	1.0
2.8	1000		1000	1000	1000	1.0
2.9	1000		1000	1000	1000	1.0
2.10	1000		1000	1000	1000	1.0

Calibration No. 00100000100

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เอกสารไม่ควบคุม

CERTIFICATE OF CALIBRATION

1. DECLARATION RESULT :

Item		Unit	2019 Reading		Corrected	Uncertainty
Tag 1	Tag 2		Tag 1	Tag 2	Tag 1	2019 Reading 1
1.1	1000	N	1000	1000	1000	1.0
1.2	1000		1000	1000	1000	1.0
1.3	1000		1000	1000	1000	1.0
1.4	1000		1000	1000	1000	1.0
1.5	1000		1000	1000	1000	1.0
1.6	1000	N	1000	1000	1000	1.0
1.7	1000		1000	1000	1000	1.0
1.8	1000		1000	1000	1000	1.0
1.9	1000		1000	1000	1000	1.0
1.10	1000		1000	1000	1000	1.0

This instrument is suitable for use as a force for the force exerter for the force exerter.

The instrument is suitable for use as a force for the force exerter for the force exerter.

This report is valid for the instrument calibration only.

Calibration No. 00100000100

Calibration No. 00100000100

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เอกสารไม่ควบคุม

CERTIFICATE OF CALIBRATION

FOR

IDENTIFICATION : FORCE EXERTER
 MANUFACTURER : HANDEX
 MODEL / TYPE : TGA300TGA300
 SERIAL NO. : 00100000100
 CLC No. : 00100000100
 DATE OF CALIBRATION : 10 February 2020

This instrument is suitable for use as a force for the force exerter for the force exerter.
 The instrument is suitable for use as a force for the force exerter for the force exerter.
 The instrument is suitable for use as a force for the force exerter for the force exerter.

Calibration No. 00100000100

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This report is valid for the instrument calibration only.

Calibration No. 00100000100

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This report is valid for the instrument calibration only.

Calibration No. 00100000100

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This report is valid for the instrument calibration only.

Calibration No. 00100000100

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เอกสารไม่ควบคุม



REPORT OF CALIBRATION

FOR

INSTRUMENT : **HYDRA-TATION**
 MANUFACTURER : **HYDROTEST**
 MODEL TYPE : **TS-10000-0000**
 SERIAL NO. : **10000000000000000000**
 DATE OF CALIBRATION : **01 January 2021**

EXPERIMENT CONDITIONS :

Temperature : **23.5 °C** Humidity : **65% RH**

REFERENCE :

Measurement of liquid viscosity by Ubbelohde viscometer is based on ISO 10002-01, and is performed according to the calibration method by using the following High & Accuracy Measurement Method (HAMP) and the following measurement method by using the following method.

REFERENCE (1) : ISO 10002-01 :

1. Liquid Viscosity, Kinematic Viscosity, ISO 10002-01
2. High Accuracy Measurement Method, High & Accuracy Measurement Method (HAMP)
3. Measurement of liquid viscosity by Ubbelohde viscometer, ISO 10002-01

QUALITY ASSURANCE :

1. The measurement method is based on the ISO 10002-01, and is performed according to the calibration method by using the following method.
2. The measurement method is based on the ISO 10002-01, and is performed according to the calibration method by using the following method.
3. The measurement method is based on the ISO 10002-01, and is performed according to the calibration method by using the following method.

CONCLUSION :

The measurement method is based on the ISO 10002-01, and is performed according to the calibration method by using the following method. The measurement method is based on the ISO 10002-01, and is performed according to the calibration method by using the following method.

REFERENCE (2) :

ISO 10002-01



CALIBRATION OF CALIBRATION ITEM

NO. AND DATE : **00000000000000000000** **01 January 2021**

CALIBRATION DATA

1. CALIBRATION DATA

Item	Unit	Value	Uncertainty	Expanded	Expanded
1.1	mm	100.00	0.01	100.01	100.01
1.2	mm	100.00	0.01	100.01	100.01
1.3	mm	100.00	0.01	100.01	100.01
1.4	mm	100.00	0.01	100.01	100.01
1.5	mm	100.00	0.01	100.01	100.01
1.6	mm	100.00	0.01	100.01	100.01
1.7	mm	100.00	0.01	100.01	100.01
1.8	mm	100.00	0.01	100.01	100.01
1.9	mm	100.00	0.01	100.01	100.01
1.10	mm	100.00	0.01	100.01	100.01
1.11	mm	100.00	0.01	100.01	100.01
1.12	mm	100.00	0.01	100.01	100.01

2. CALIBRATION DATA

Item	Unit	Value	Uncertainty	Expanded	Expanded
2.1	mm	100.00	0.01	100.01	100.01
2.2	mm	100.00	0.01	100.01	100.01
2.3	mm	100.00	0.01	100.01	100.01
2.4	mm	100.00	0.01	100.01	100.01
2.5	mm	100.00	0.01	100.01	100.01
2.6	mm	100.00	0.01	100.01	100.01
2.7	mm	100.00	0.01	100.01	100.01
2.8	mm	100.00	0.01	100.01	100.01
2.9	mm	100.00	0.01	100.01	100.01
2.10	mm	100.00	0.01	100.01	100.01
2.11	mm	100.00	0.01	100.01	100.01
2.12	mm	100.00	0.01	100.01	100.01

REFERENCE (1) :

ISO 10002-01

ISO 10002-01

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เอกสารไม่ควบคุม



CALIBRATION DATA

1. CALIBRATION DATA

Item	Unit	Value	Uncertainty	Expanded	Expanded
1.1	mm	100.00	0.01	100.01	100.01
1.2	mm	100.00	0.01	100.01	100.01
1.3	mm	100.00	0.01	100.01	100.01
1.4	mm	100.00	0.01	100.01	100.01
1.5	mm	100.00	0.01	100.01	100.01
1.6	mm	100.00	0.01	100.01	100.01
1.7	mm	100.00	0.01	100.01	100.01
1.8	mm	100.00	0.01	100.01	100.01
1.9	mm	100.00	0.01	100.01	100.01
1.10	mm	100.00	0.01	100.01	100.01
1.11	mm	100.00	0.01	100.01	100.01
1.12	mm	100.00	0.01	100.01	100.01

The measurement method is based on the ISO 10002-01, and is performed according to the calibration method by using the following method.

The measurement method is based on the ISO 10002-01, and is performed according to the calibration method by using the following method.

The measurement method is based on the ISO 10002-01, and is performed according to the calibration method by using the following method.

The measurement method is based on the ISO 10002-01, and is performed according to the calibration method by using the following method.



CERTIFICATE OF CALIBRATION

FOR

INSTRUMENT : **HYDRA-TATION**
 MANUFACTURER : **HYDROTEST**
 MODEL TYPE : **TS-10000-0000**
 SERIAL NO. : **10000000000000000000**
 DATE OF CALIBRATION : **01 January 2021**

CONCLUSION : **THE MEASUREMENT METHOD IS BASED ON THE ISO 10002-01, AND IS PERFORMED ACCORDING TO THE CALIBRATION METHOD BY USING THE FOLLOWING METHOD.**

DATE OF CALIBRATION : **01 January 2021**

DATE OF CALIBRATION : **01 January 2021**

The measurement method is based on the ISO 10002-01, and is performed according to the calibration method by using the following method.

Calibrated By : **Sam Thongkham**
 Calibration Engineer

[Signature]



Approved By : **Wongkiet Yoonwong**
 Authorized Signatory
 01 March 2021

The measurement method is based on the ISO 10002-01, and is performed according to the calibration method by using the following method.

REFERENCE (1) :

ISO 10002-01

ISO 10002-01

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เอกสารไม่ควบคุม



REPORT OF CALIBRATION

FOR

NOMENCLATURE : **ACCELERATION METER**
 IDENTIFICATION : **PRELARED**
 MODEL / TYPE : **COLSON 8534B**
 SERIAL NO. : **041000010000**
 DATE OF CALIBRATION : **01 March 2022**

SYNOPSIS (SUMMARY)

Temperature : **23.2 ± 0.5 °C**

Relative Humidity : **60% ± 5.0%**

PROCEDURE USED :

The standard acceleration was measured by 35.4 Hz sine wave at 0.05 mm/s² sinusoidal motion.

The calibration was performed by using digital electronic instruments, functions and following

frequency standards as follows (Table 1).

REFERENCE STANDARD USED :

1. Digital Oscilloscope, Scope Model 2012 400 MHz, 100ms

2. Frequency counter, 40 MHz, 100ms, 100ms, 100ms

3. Acceleration and frequency standards Model 8534B, 100ms, 100ms, 100ms

TESTABILITY :

1. The measurement of acceleration was measured by 35.4 Hz sine wave at 0.05 mm/s² sinusoidal motion.

2. The measurement of frequency was measured by 35.4 Hz sine wave at 0.05 mm/s² sinusoidal motion.

3. The measurement of acceleration was measured by 35.4 Hz sine wave at 0.05 mm/s² sinusoidal motion.

4. The measurement of frequency was measured by 35.4 Hz sine wave at 0.05 mm/s² sinusoidal motion.

5. The measurement of acceleration was measured by 35.4 Hz sine wave at 0.05 mm/s² sinusoidal motion.

6. The measurement of frequency was measured by 35.4 Hz sine wave at 0.05 mm/s² sinusoidal motion.

INCIDENTS :

The incident of the calibration of acceleration was measured by 35.4 Hz sine wave at 0.05 mm/s² sinusoidal motion.

At the end of the calibration, the measurement of acceleration was measured by 35.4 Hz sine wave at 0.05 mm/s² sinusoidal motion.

The measurement of acceleration was measured by 35.4 Hz sine wave at 0.05 mm/s² sinusoidal motion.

Continue the calibration

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CONDITION OF CALIBRATION ITEM - GOOD

MEASUREMENT RESULTS (1.5% error adjustment) : **1 adjustment**

CALIBRATION DATA

1. ACCELERATION RESULTS

Type		Model	1.5% Error		Frequency	1.5% Error
1.5% Error	1.5% Error		1.5% Error	1.5% Error		
0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0		0.0	0.0	0.0	0.0
0.0	0.0		0.0	0.0	0.0	0.0
0.0	0.0		0.0	0.0	0.0	0.0
0.0	0.0		0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0		0.0	0.0	0.0	0.0
0.0	0.0		0.0	0.0	0.0	0.0
0.0	0.0		0.0	0.0	0.0	0.0
0.0	0.0		0.0	0.0	0.0	0.0

2. FREQUENCY RESULTS

Type		Model	1.5% Error		Frequency	1.5% Error
1.5% Error	1.5% Error		1.5% Error	1.5% Error		
0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0		0.0	0.0	0.0	0.0
0.0	0.0		0.0	0.0	0.0	0.0
0.0	0.0		0.0	0.0	0.0	0.0
0.0	0.0		0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0		0.0	0.0	0.0	0.0
0.0	0.0		0.0	0.0	0.0	0.0
0.0	0.0		0.0	0.0	0.0	0.0
0.0	0.0		0.0	0.0	0.0	0.0

Continue the calibration

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CALIBRATION DATA

1. MEASUREMENT RESULTS

Type		Model	1.5% Error		Frequency	1.5% Error
1.5% Error	1.5% Error		1.5% Error	1.5% Error		
0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0		0.0	0.0	0.0	0.0
0.0	0.0		0.0	0.0	0.0	0.0
0.0	0.0		0.0	0.0	0.0	0.0
0.0	0.0		0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0		0.0	0.0	0.0	0.0
0.0	0.0		0.0	0.0	0.0	0.0
0.0	0.0		0.0	0.0	0.0	0.0
0.0	0.0		0.0	0.0	0.0	0.0

Note: 1. The calibration of acceleration was measured by 35.4 Hz sine wave at 0.05 mm/s² sinusoidal motion.

The Report of Acceleration Calibration was measured by 35.4 Hz sine wave at 0.05 mm/s² sinusoidal motion.

The Report of Acceleration Calibration was measured by 35.4 Hz sine wave at 0.05 mm/s² sinusoidal motion.

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Continue the calibration

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ภาคผนวก ช
เอกสารสอบเทียบเครื่องมือ



รายการใบรับรองสอบเทียบ/ทวนสอบ เครื่องมือหลักประจำห้องปฏิบัติการวิเคราะห์ สำหรับวิเคราะห์คุณภาพสิ่งแวดล้อม

No.	Instrument/Equipment	Parameter	Manufacturer	Model/Serial No.	Calibrator	Certification No.	Date of Calibration	Due date of Calibration*	Remark
เครื่องมือหลักประจำห้องปฏิบัติการวิเคราะห์คุณภาพอากาศ									
1	Analytical Balance (Readability 0.1 mg)	TSP PM10 PM 2.5	Mettler-Toledo	AB204-S / 1128312528	Technology Promotion Association (Thailand-Japan)	23MM331	7 Apr 23	5 Apr 24	-
2	Analytical Balance (Readability 0.1 mg)		Mettler-Toledo	AB204-S/FACT / B108115858	Technology Promotion Association (Thailand-Japan)	23MM332	7 Apr 23	5 Apr 24	-
3	Analytical Balance (Readability 0.001 mg)		Mettler-Toledo	XP6 / B322373893	Technology Promotion Association (Thailand-Japan)	23MM333	7 Apr 23	5 Apr 24	-
4	Ion Chromatography (IC)	HCl, Chlorine, HF, H ₂ SO ₄	Dionex	DX-120 / 03010223	Archemica Lab Co.Ltd.	Qualification Report Anlon (ID#042)	9 Dec 22	8 Dec 23	-
5	Atomic Absorption Spectrophotometer (AAS)		Perkin Elmer	PinAAcle 900F / PFB520031902	Perkin Elmer Co.,Ltd.	PM Service No. WO-02273773	26 Jun 23	24 Jun 24	-
6	Inductively Coupled Plasma (ICP)		Agilent Technologies	System ID:G8015A G8015AA / MY18030001	Agilent Technologies (Thailand) Co.,Ltd.	Preventive Maintenance Checklist	30 Nov 22	29 Nov 23	-
7	Atomic Absorption Spectrophotometer (AAS)	Nox	Agilent Technologies	System ID:G8432A A4240FS / MY13160001	Thailand Institute of Scientific and Technological Research(TISTR)	MTC. ACL No. 387/66	2 Feb 23	1 Feb 24	-
8	UV-VIS Spectrophotometer		Agilent Technologies	Cary60 G6860A / MY15410009	DOE Services Co.,Ltd.	SP23-021	20 May 23	18 May 24	-
9	UV-VIS Spectrophotometer		Hitachi	U-1900 / 2021-064	DOE Services Co.,Ltd.	SP23-007	5 Jan 23	4 Jan 24	-

Due Date of Calibration* : Based on the annual calibration plan. At least 1 time per year.



Cal No. : 000001
Page : 1 of 3

Certificate of Calibration

Equipment : Electronic Balance
Manufacturer : Ohaus N1100
Model : N1100
Serial No. : 11001000
ID No. : LK-00100000
Excalibrated by : (Hafid Hidayat and Engineering) (Hafid Hidayat)
Location : Jl. Raya Cendekia No. 100, Cendekia, Kota Tangerang Selatan, Banten 15139
Received on : 01 April 2020
Calibration Date : 01 April 2020
Ambient Temperature : 18 °C to 25 °C
Relative Humidity : 30 % to 40 %
Calibrated by : Hafid Hidayat
Approved by : (Hafid Hidayat)
Date : 01 April 2020

This Calibration is for a confidence probability of approximately 95%.

Uncontrolled Document



Equipment : Electronic Balance
Manufacturer : Ohaus N1100
Model : N1100
Serial No. : 11001000
ID No. : LK-00100000
Excalibrated by : (Hafid Hidayat and Engineering) (Hafid Hidayat)

Cal No. : 000001
Page : 2 of 3

Calibration was performed using internal calibration procedure (CP-001) according to strict measurement method (specific standard weight).

Condition of the result of calibration:

1. Instrument was used as intended.

2. This certificate is valid only to the item calibrated in date and place of calibration.

3. This result of calibration was made on demand of the user specified by customer.

4. This certificate is not valid for any other item or item.

5. This certificate is valid to the International System of Units.

Result of calibration : 1. Without Adjustment 2. After Adjustment by Internal Calibration

Range of validity :

Before Adjustment

Applied Weight	Balance Reading	Correction	Measurement Uncertainty	Coverage Factor
1 g	0.9999	0.0001	0.0001	2.0
10 g	9.9999	0.0001	0.0001	2.0
100 g	99.9999	0.0001	0.0001	2.0

After Adjustment

5. Measurement of the standard deviation of weighing function (11 x 10⁻⁶)

Applied Weight	Standard Deviation of Reading (g)
1 g	0.00001
10 g	0.00001
100 g	0.00001

Uncontrolled Document



Equipment : Electronic Balance
Manufacturer : Ohaus N1100
Model : N1100
Serial No. : 11001000
ID No. : LK-00100000
Excalibrated by : (Hafid Hidayat and Engineering) (Hafid Hidayat)

Cal No. : 000001
Page : 3 of 3



Measurement difference between

all sensor and standard reading

1 g

0.00001

3. Effect of air buoyancy

A mass of 100 g was placed in various position at the pan.

The weighing standard reading with standard is given in the table.

Position 1	Position 2	Position 3	Position 4	Position 5
100	100	100	100	100
0.0001	0.0001	0.0001	0.0001	0.0001

4. Measurement of standard deviation

Applied Weight	Balance Reading	Correction	Measurement Uncertainty	Coverage Factor
1 g	0.9999	0.0001	0.0001	2.0
10 g	9.9999	0.0001	0.0001	2.0
100 g	99.9999	0.0001	0.0001	2.0
1 g	0.9999	0.0001	0.0001	2.0
10 g	9.9999	0.0001	0.0001	2.0
100 g	99.9999	0.0001	0.0001	2.0
1 g	0.9999	0.0001	0.0001	2.0
10 g	9.9999	0.0001	0.0001	2.0
100 g	99.9999	0.0001	0.0001	2.0
1 g	0.9999	0.0001	0.0001	2.0
10 g	9.9999	0.0001	0.0001	2.0
100 g	99.9999	0.0001	0.0001	2.0

The reported uncertainty of measurement was based on a normal uncertainty multiplying a coverage factor k, providing a level of confidence of approximately 95%.

Uncontrolled Document



Cal No. : 000001
Page : 1 of 3

Certificate of Calibration

Equipment : Electronic Balance
Manufacturer : Ohaus N1100
Model : N1100
Serial No. : 11001000
ID No. : LK-00100000
Excalibrated by : (Hafid Hidayat and Engineering) (Hafid Hidayat)
Location : Jl. Raya Cendekia No. 100, Cendekia, Kota Tangerang Selatan, Banten 15139
Received on : 01 April 2020
Calibration Date : 01 April 2020
Ambient Temperature : 18 °C to 25 °C
Relative Humidity : 30 % to 40 %
Calibrated by : Hafid Hidayat
Approved by : (Hafid Hidayat)
Date : 01 April 2020

This Calibration is for a confidence probability of approximately 95%.

Uncontrolled Document

Dionex Ion Chromatography
Preventive Maintenance Report

Customer Organization	Public Department
Unit/Location/On-Site/Off-Site	4-3-200
Engineer Name	Deek
At Customer Address	20/10/2558

Instrument Detail

Instrument Model	Aspertron
On-Site/Off-Site	On-Site
Instrument Component	Sample Separator
SN: 1234	20010000

Consumables Detail

Consumable	Brand/Model	Supplies	Consumption	SN
MSD	ASAP	20010000		

Remarks:

Signature of Engineer: 
 Signature of Customer: 
 Date: 20/10/2558



General Inspection Checklist

Item	Description	Result		Action/Remark	S.A.
		Pass	Fail		
1	Power on 220V	Pass	Pass	Checked	
2	Pressure	Pass	Pass	Checked	
3	Pressure gauge 0-100 psi	Pass	Pass	Checked	
4	Sample filling and the filling	Pass	Pass	Checked	
5	Connect and checked valve	Pass	Pass	Checked	
6	Pressure valve for leak	Pass	Pass	Checked	
7	Check valve for leak	Pass	Pass	Checked	
8	Repeat test	Pass	Pass	Checked	
9	Repeat test	Pass	Pass	Checked	
10	Repeat pressure test	Pass	Pass	Checked	
11	Repeat filling and the filling	Pass	Pass	Checked	
12	Repeat test for leak	Pass	Pass	Checked	
13	Check for leak	Pass	Pass	Checked	
14	Pressure valve checked	Pass	Pass	Checked	
15	Check pressure valve for leak	Pass	Pass	Checked	
16	Repeat filling and the filling	Pass	Pass	Checked	
17	Check pressure	Pass	Pass	Checked	
18	Repeat test for leak	Pass	Pass	Checked	
19	Repeat test for leak	Pass	Pass	Checked	
20	Repeat test for leak	Pass	Pass	Checked	
21	Repeat test for leak	Pass	Pass	Checked	
22	Repeat test for leak	Pass	Pass	Checked	
23	Repeat test for leak	Pass	Pass	Checked	
24	Repeat test for leak	Pass	Pass	Checked	
25	Repeat test for leak	Pass	Pass	Checked	
26	Repeat test for leak	Pass	Pass	Checked	
27	Repeat test for leak	Pass	Pass	Checked	
28	Repeat test for leak	Pass	Pass	Checked	
29	Repeat test for leak	Pass	Pass	Checked	
30	Repeat test for leak	Pass	Pass	Checked	
31	Repeat test for leak	Pass	Pass	Checked	
32	Repeat test for leak	Pass	Pass	Checked	
33	Repeat test for leak	Pass	Pass	Checked	
34	Repeat test for leak	Pass	Pass	Checked	
35	Repeat test for leak	Pass	Pass	Checked	
36	Repeat test for leak	Pass	Pass	Checked	
37	Repeat test for leak	Pass	Pass	Checked	
38	Repeat test for leak	Pass	Pass	Checked	
39	Repeat test for leak	Pass	Pass	Checked	
40	Repeat test for leak	Pass	Pass	Checked	

เอกสารไม่ควบคุม

เอกสารไม่ควบคุม

Chromeleon Operational Qualification
(CM_OQ)

File: C:\Program Files\Dionex\Chromeleon\CM_OQ\CM_OQ_01.DAT
 Date: 20/10/2558



Chromeleon Operational Qualification

General Information

Computer Name (Server)	LAB-01
Computer Name (Client)	LAB-01
Version Number	4.00.0010 (Build 1001100)
Operator	At Chomwong Chomwong

General System Stability Test: Not passed

Comparison Results

At Preparation	Significant figure	10
Comparison result	Preparation result	10
Preparation (Pre-Test) Preparation	Preparation result	10

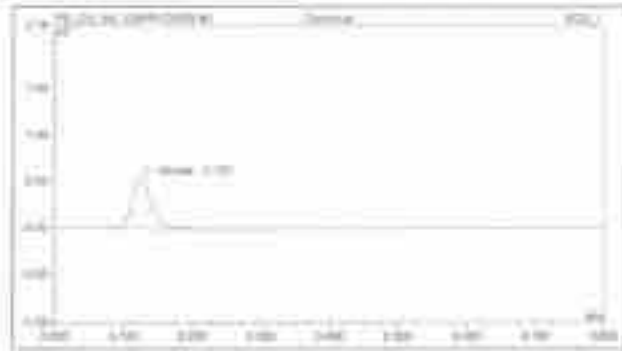
Signature of Engineer: 
 Date: 20/10/2558

Signature of Customer: 
 Date: 20/10/2558

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เอกสารไม่ควบคุม

Chromatogram for Carry Over test



Data for Carry Over test

Sample	Peak Area (nmol/mL)	Peak Height (nmol/mL)
	0.00	0.00
High Load	0.00	0.00
Carry over	0.00	0.00
Blank	0.00	0.00
Carry over		0.00
Limit		0.00
Result		Pass

Signature
Customer Signature

Signature
Supplier Signature

Signature
Date

Revised: 01/01/2018
Version: 01/01/2018

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Page: 01/01/2018

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Performance Qualification

Detector Linearity

Instruments

Instrument Name	Model	Supplier	Serial Number	Manufacturer
Pump	1000	Shimadzu	10000000	Shimadzu
Detector	1000	Shimadzu	10000000	Shimadzu
Autosampler	1000	Shimadzu	10000000	Shimadzu
Chromatogram	1000	Shimadzu	10000000	Shimadzu

Accessories

Name	Description
Reagents	1000 (1000) (1000) (1000)
Sample 1	1000 (1000)
Sample 2	1000 (1000)
Sample 3	1000 (1000)
Sample 4	1000 (1000)
Sample 5	1000 (1000)
Sample 6	1000 (1000)
Sample 7	1000 (1000)
Sample 8	1000 (1000)
Sample 9	1000 (1000)
Sample 10	1000 (1000)

Additional Information

Customer Name	1000 (1000) (1000) (1000)	Date	01/01/2018
Customer Address	1000 (1000) (1000) (1000)	Test Location	1000 (1000)

Test Results Summary

Test	Result
1000 (1000) (1000) (1000)	Pass
1000 (1000) (1000) (1000)	Pass

Signature
Customer Signature

Signature
Supplier Signature

Signature
Date

Revised: 01/01/2018
Version: 01/01/2018

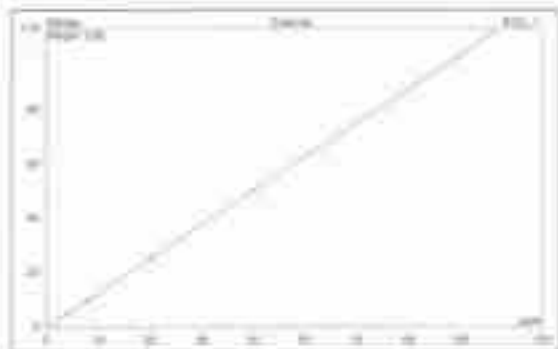
01/01/2018, 01/01/2018, 01/01/2018
Page: 01/01/2018

เอกสารไม่ควบคุม

Data for Detector Linearity

Sample	Peak Area (nmol/mL)	Peak Height (nmol/mL)
	0.00	0.00
Detector Linearity 1	0.00	0.00
Detector Linearity 2	0.00	0.00
Detector Linearity 3	0.00	0.00
Detector Linearity 4	0.00	0.00
Detector Linearity 5	0.00	0.00
Detector Linearity 6	0.00	0.00

Linearity Plot



Calibration Type	Number of Points	Offset	Slope
1000	1000	0.00	1.00
1000	1000	0.00	1.00
1000	1000	0.00	1.00
1000	1000	0.00	1.00
1000	1000	0.00	1.00
1000	1000	0.00	1.00
1000	1000	0.00	1.00
1000	1000	0.00	1.00
1000	1000	0.00	1.00
1000	1000	0.00	1.00

Signature
Customer Signature

Signature
Supplier Signature

Signature
Date

Revised: 01/01/2018
Version: 01/01/2018

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CERTIFICATE

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Certificate of Analysis

ThermoFisher Scientific

Thermo Nitrate HPLPG IC Standards Kit
(Kit of 6)

Product Number 40224
Certificate of Analysis

Lot Number 220306

Expiry date of Certificate:
February, 2025

This Thermo Nitrate HPLPG IC Standards Kit was developed to aid the analysis of nitrate by Ion Chromatography (IC). The single-ion standard was prepared by the addition of 100 µg/L of the single-ion standard to the mobile phase. The certificate lists the certified concentration value of the fully supported for instrumental purposes only. The actual ion concentration value was determined by Ion Chromatography. The IC system was calibrated using the National Institute of Standards & Technology (NIST) Standard Reference Material, NIST 1570 Nitrate Standard Solution. Actual concentration values determined by the analysis are listed below.

Thermo Nitrate Standard

Peak	Concentration (mg/L)
1	1.57 ± 0.02
2	10.50 ± 0.04
3	30.97 ± 0.11
4	40.42 ± 0.11
5	99.9 ± 1.1
6	99.9 ± 1.1

The concentration value is based on gravimetric analysis of nitrate. The overall concentration accuracy is based on the value of the gravimetric value. The concentration value is based on the value of the gravimetric value.

The gravimetric and analysis of the Thermo Nitrate Standard was performed with accuracy and precision by Thermo Scientific, Customer Consulting Manufacturing Department in Bangkok, Thailand.

ThermoFisher
SCIENTIFIC

Certificate of Completion

This certifies that:

Channarong Khiao-Un

Has successfully completed:

eLearn: RPG IC-Specific Qualification Service Training

ThermoFisher Scientific

ThermoFisher Scientific
Labs - Learning Management
System, Training, Monitoring,
and Certification Group
Email: training@thermo.com

ThermoFisher Scientific

Valid for 3 years from
Date of Issue
Date: 11/01/2023

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เอกสารไม่ควบคุม



PinAAcle 900F Preventive Maintenance Report

Company Name: UNITED ANALYST AND ENGINEERING

Instrument Location: BANGCHAK, PRAKHANONG

BANGKOK, 10260

Instrument Serial No.: PFBS20031902

Date: 26-Jun-2023

เอกสารไม่ควบคุม

PinAAcle 900F Preventive Maintenance (PM)

Company Name:	UNITED ANALYST AND ENGINEERING		
Address (Instrument Location):	BANGCHAK, PRAKHANONG, BANGKOK, 10260		
Serial Number:	PFBS20031902	PM Number:	2/2
Customer Name (if applicable):	K. SATIDA	Telephone Number:	095-558-0049
Customer Support Engineer Name:	K. DUANG	Service Order Number:	WO-02273773
Date PM Performed: (DD-MM-YYYY)	Jun 26, 2023	Next PM Due Date: (DD-MM-YYYY)	Dec 30, 2023
Standard Labor Hours to Complete PM :		5 hours	

Part Number	Release	Publication Date	PerkinElmer
09370145 Rev.9	A	January 2018	

Scope

The purpose of this PM is to ensure the continued functionality of the PinAAcle 900F by inspecting and replacing any worn or damaged parts. This service should only be performed by a trained representative of PerkinElmer. The customer should save their method before the PM begins.

General Instructions:

The customer must provide the engineer operational data to demonstrate recent instrument performance prior to starting the PM. Always check with the customer before making any changes that may affect the customer's analysis or calibration, including a current back-up of system software and/or data files. The completed document should be signed by an authorized PerkinElmer and customer representative and left with the customer. Update the PM sticker and instrument logbook as required.

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Component List

Component / Specific Model	Serial #	Configuration Notes

Parts Lists

Parts Included with the PM		
Part Number (if applicable)	Description	Quantity
B0501696	Fan Filters	N/A
N3160156	O-Ring Kits for Sampling Introduction (Stainless Steels Nebulizer)	N/A
N3160157	O-Ring Kits for Sampling Introduction (Plastic Nebulizer)	N/A
N9301714	Replacement Acetylene Filter Cartridge	N/A
TH001022	Replacement Air Filter Cartridge	N/A

Additional Reagents and Standards Required for PM				
Part Number (if applicable)	Description	Quality	Batch/Lot #	Expired Date (MM/YY)
N9300183	1000 mg/L Copper Standard	AR	26-87CUY1	30-Jan-2024

Additional Reagents and Standards Required for PM (Customer Support Solution)				
Part Number (if applicable)	Description	Quantity	Batch/Lot #	Expiration Date (MM/YY)
N/A	DI Water	250 ml.	AR	AR
N/A	0.5% HNO ₃	250 ml.	AR	AR

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Procedure Checklist

Use (✓) to check off those steps in the checklist that have been completed.

1. General:

- ✓ Review the instrument performance with the customer and document any recent problems.
- ✓ Inspect the customer log book and make any appropriate PM entries.
- ✓ Perform general inspection of system for cleanliness.

2. PC Instrument Software:

- ✓ Instrument Software user files/databases archived, packed, and/or deleted as needed.

3. Mechanical:

- ✓ Inspect and clean all fans and filters. Replace filters if necessary
- ✓ Inspect all gas lines for leaks and/or wear. Replace if needed.
- ✓ Clean exterior of the instrument.
- ✓ Inspect the burner head, burner chamber, and nebulizer. Clean if needed as stated in the Hardware Guide.
- ✓ Check burner head dimensions with the feeler gauge as stated in the Hardware Guide in the Maintenance chapter section on cleaning the burner head and checking sloth width. Replace if out of specification
- ✓ Check the condition of the end cap, burner head, and nebulizer O-rings. Replace if necessary.
- ✓ Check the drain system for signs of wear. Replace worn or damaged parts.
- ✓ Visually check for proper flame conditions when igniting the Air-C₂H₂ and N₂O-C₂H₂ flames (if applicable).

4. Electrical:

- ✓ Inspect PC boards. Clean if necessary.
- ✓ Carefully check all internal and external cable connections.
- ✓ Check instrument firmware revisions upgrade to current levels (if necessary)
- ✓ Run Diagnostics Test within the Advanced function of the Spectrometer page. Check the results in the service log folder in the Spectrometer BM Log Viewer.

5. Optics:

- ✓ Inspect and clean the sample compartment windows, if needed.
- ✓ Inspect optics. Clean or replace if necessary,

6. Gasses:

- ✓ Verify that the Gasses supplied to the instrument are within the pressure and purity specifications found in the PinAAcle 900 Series Pre-installation Checklist SDB.
- ✓ Verify that the acetylene filter and air filter element is dry. Replace if necessary.

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Additional Tools Required for PM

Part Number (if applicable)	Description	Quantity	Serial #
N1013000	0.2A Neutral density filter	1	MG0-252
N1013002	1.0A Neutral density filter	1	MG0-358
03030997	System 2 EDL Driver	1	03030997
N3050605	As System 2 EDL	1	16148
N3050121	Cu Lumina HCL	1	092216-010130
N3050109	Ba Lumina HCL	1	102416-040160
N3050139	K Lumina HCL	1	110716-010060
N3050152	Ni Lumina HCL	1	100516-030190

เอกสารไม่ควบคุม

7. Flame Interlock Check:

Description: Check to ensure that all safety interlocks are closed.

Parameter	Specification	Test Results	Pass/Fail
Flame Sensor	Air/C ₂ H ₂ Flame correctly shuts down	Active	Passed
Drain Sensor	Air/C ₂ H ₂ Flame correctly shuts down	Active	Passed
Nebulizer Sensor	Air/C ₂ H ₂ Flame correctly shuts down	Active	Passed
C ₂ H ₂ Pressure Sensor	Air/C ₂ H ₂ Flame correctly shuts down	Active	Passed
Air Pressure Sensor	Air/C ₂ H ₂ Flame correctly shuts down	Active	Passed
Burner Head Sensor	Choosing Nitrous Oxide as the oxidant should trigger an interlock shuts down	Active	Passed

8. After PM Performance tests:

8.1 Detector Linearity with Barium

Description: Ensures that the detector is linear in the Visible Range.

Parameter	Specification	Certificate Value at 553.6 nm (Abs.)	Test Results	Pass/Fail
1.0 A ND Filter	± 5% from Cert.	0.9798	0.9890	Passed
0.2 A ND Filter	± 5% from Cert.	0.2042	0.1975	Passed

8.2 Baseline Noise at 1.0 Absorbance with Barium

Description: Ensures that a high absorbance will not produce excessive noise.

Parameter	Specification	Results	Pass/Fail
Standard Deviation	≤ 0.010	0.0009	Passed

8.3 AA Baseline Noise with Copper

Description: Check baseline noise.

Parameter	Specification	Results	Pass/Fail
Standard Deviation	≤ 0.001	0.0002	Passed

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8.4 D₂ Background Compensation with Copper

Description: Verifies the instruments ability to compensate for Background absorption.

Parameter	Specification	Results	Pass/Fail
Standard Deviation	≤ 0.010	-0.0062	Passed

8.5 AA-BG Baseline Noise with Copper

Description: Ensures that background correction does not produce excessive noise.

Parameter	Specification	Results	Pass/Fail
Standard Deviation	≤ 0.005	0.0002	Passed

8.6 AA-BG Baseline Noise with Arsenic

Description: Ensures that background correction does not produce excessive noise at a low wavelength.

Parameter	Specification	Results	Pass/Fail
Standard Deviation	≤ 0.005	0.0014	Passed

8.7 Flame Sensitivity

Description: Instrument Sensitivity checked against Copper standard.

Standard Copper Sensitivity	Specification	Results (Abs.)	Pass/Fail
5 mg/L Sensitivity SS Neb (if applicable)	> 0.250 Abs.	NA	Not Applicable
2 mg/L Sensitivity HS Neb (if applicable)	> 0.250 Abs.	0.3467	Passed

10. Review:

- ☒ Review with the customer PM work performed.
- ☒ Review with the customer routine maintenance procedures.
- ☒ Discuss recommended customer supplied materials to have on hand.
- ☒ Attach PM sticker.

Additional Comments

Additional Comments Regarding the PM

Review

The preventive maintenance checks and if applicable performance tests for PinAAcle 900F have been completed.

This PinAAcle 900F ☒ Passes ☐ Fails ☐ the preventive maintenance.

Review of Preventive Maintenance:

Authorized PerkinElmer Representative:	Date: 26-Jun-2023 (DD-MMM-YYYY)
Authorized Customer Representative:	Date: 26-Jun-2023 (DD-MMM-YYYY)

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เอกสารไม่ควบคุม

Agilent Technologies

Agilent 900F and 900F-000F
Preventive Maintenance Checklist

Agilent Preventive Maintenance provides timely comprehensive service for your analytical systems to ensure reliable operation and the accuracy of your results. Supported by highly skilled and certified service engineers using genuine Agilent parts and materials, Agilent Preventive Maintenance provides continuous care and is custom implemented according to your own chemical operating conditions.

The service technicians at Agilent Technologies service your lab now with the using the following URL: http://www.agilent.com/service/900f/900f000f/preventive_maintenance

Customer Information

- Customer should provide all necessary operating supplies upon request of the engineer.
- The necessary using HP instruments, the equipment should be returned to its standard energy configuration status.
- A statement requirement should be available to the engineer with providing the preventive maintenance procedure.
- Any parts not included in the Preventive Maintenance of the instrument, are not part of the recommended Preventive Maintenance service, and are not included in the price of the service.
- If a customer requires the use of additional or special procedures and/or parts for the instrument system, these items must be ordered separately and charged as a repair, which may incur additional cost.

Service Engineer's Responsibilities

- Only a service engineer signed off and on the system being serviced.
- Complete engine health with the instrument independent.
- Complete the instrument checklist as the direction being a "Y" or "N" with "Y" for the condition.
- Complete the applicable check items in section service not followed, as needed.
- Complete the PM service on the order of the table below.
- Complete the Service Service service together with the customer.

Agilent Technologies

Agilent 900F and 900F-000F
Preventive Maintenance Checklist

System Information

Instrument system name and ID	26-130-000
Instrument system site and location	26-130-000
Use service engineer product version	26-130-000
1. 26-130-000	2. 26-130-000
3. 26-130-000	4. 26-130-000
5. 26-130-000	6. 26-130-000
7. 26-130-000	8. 26-130-000
9. 26-130-000	10. 26-130-000
11. 26-130-000	12. 26-130-000
13. 26-130-000	14. 26-130-000
15. 26-130-000	16. 26-130-000
17. 26-130-000	18. 26-130-000
19. 26-130-000	20. 26-130-000

Service Engineer's Name	Service Engineer's Name
Service Engineer's Title	Service Engineer's Title
Service Engineer's Address	Service Engineer's Address
Service Engineer's Phone	Service Engineer's Phone
Service Engineer's Email	Service Engineer's Email
Service Engineer's Fax	Service Engineer's Fax
Service Engineer's Mobile	Service Engineer's Mobile
Service Engineer's Other	Service Engineer's Other

Agilent Technologies

Agilent 900F and 900F-000F
Preventive Maintenance Checklist

เอกสารไม่ควบคุม

Agilent Technologies

Agilent 900F and 900F-000F
Preventive Maintenance Checklist

System Information

Instrument system name and ID	26-130-000
Instrument system site and location	26-130-000
Use service engineer product version	26-130-000
1. 26-130-000	2. 26-130-000
3. 26-130-000	4. 26-130-000
5. 26-130-000	6. 26-130-000
7. 26-130-000	8. 26-130-000
9. 26-130-000	10. 26-130-000
11. 26-130-000	12. 26-130-000
13. 26-130-000	14. 26-130-000
15. 26-130-000	16. 26-130-000
17. 26-130-000	18. 26-130-000
19. 26-130-000	20. 26-130-000

Service Engineer's Name	Service Engineer's Name
Service Engineer's Title	Service Engineer's Title
Service Engineer's Address	Service Engineer's Address
Service Engineer's Phone	Service Engineer's Phone
Service Engineer's Email	Service Engineer's Email
Service Engineer's Fax	Service Engineer's Fax
Service Engineer's Mobile	Service Engineer's Mobile
Service Engineer's Other	Service Engineer's Other

Agilent Technologies

Agilent 900F and 900F-000F
Preventive Maintenance Checklist

เอกสารไม่ควบคุม

Agilent 8440 and 8453 HPL-02020
Preventive Maintenance Checklist

General Comments

- 10. Discuss any specific questions or issues with the customer prior to meeting.
- 11. Review the business card(s).
- 12. Provide general national information of interest for discussion.
- 13. Check for proper installation of safety-related parts, accessories, sensors etc.
- 14. Check for required emergency exit/escape options and make sure customers if they would like it installed.
- 15. For IoT application scenarios, if standard sample identification system was not installed, ask the customer to install it.
- 16. Run Performance Performance test and record results in Supplemental Performance Data/Service Table - Part IV.

Empress will clean the room

- 12. Look for any obvious external damage or problems.
- 13. Inspect inside cooling tower, fan filter and power unit for excessive wear or damage.
- 14. Perform a gross visual inspection of the system for excessive heat accumulation close to fan filter.
- 15. Inspect people protection components and record any required adjustments to the Service Request Comments and notify the customer as the required actions required.
- 16. Record the equipment operating conditions in the HSP-002 Data Sheet form.
- 17. Replace the polyethylene pump filter.
- 18. Replace the outlet pressure switch.
- 19. Replace the inlet pressure switch for R134a and R12 components.
- 20. Check outdoor fan for the correct positive rotation in the correct fan is correct that meets specifications.
- 21. Replace air filter, fan filter.
- 22. Replace high capacity fan filter, fan filter element if needed. 100
- 23. Remove and clean heat exchanger fan filter.

GHATA Chiding male asthm

- **Reaction Time Applicable**
- Drain cooling fluid and ensure any particles from air-drying evaporator
- Remove, clean and reinstall water filter (not used with RTR)
- Re-fill with Polypropylene cooling fluid
- Close the cooling system Air Filter and the compressor to compressed air to remove oil

Activity 0.11 and 0.12 NSF-2020
Prevention Maintenance Checklist

1975, 1. Same Number

- Prove that the automorphism and fully normalised involutions
- Impose X and Y conditions for trace, regularity, symmetry,
- Trace, X and Y conditions
- Using condition 1's trace and the highest automorphism from the identity group of the 3 independent elements and other good, strong field. The order is approximately reduced in the class

SPM 4: Active Transport

12. Discuss the applications of each ionization method and the associated advantages and disadvantages.

AVAILABILITY

- ☒ **Northwest 5000 Application**
- ☐ Replace rubber clock seal
- ☐ Check blower for clogs of debris
- ☐ Check tubing for leaking (compressor tubing not leaks at evaporator coils)
- ☐ Check coil, then remove for access of fan.

Statistical Analysis

- ☐ Check presence of 31 pins, adjust if required.
☐ Check Argoz Ball, adjust to specified value (5 mm).
☐ Perform Dynamic Ventilation.
☐ Perform Instrument Calibration.
☐ Use Instrument Performance Test and record results in Instrument Performance Test Results Data File.
☐ For systems using ICE Export, verify ICE and adjust via the following instructions (see and record the results in the Instrument Test Results Table):
 ☐ Subsequent Communication Test.
 ☐ No Flow.

Agencies 1113 and 1136 H.F. OHS
Prevention Management Checklist

- ☐ Water Pump
- ☐ Gas Pump
- ☐ Oil Cooler
- ☐ Heating Coil
- ☐ Ignition Coil
- ☐ Suburban Unit

Instrument Performance Test Results Table

These data demonstrate the use of a small number of well-defined and well-characterized

	New PPE Readability Check		Used PPE Readability Check	
	Product	Label	Product	Label
See 2014.001 use label	81000_4	2014.0	40500_0	81000_0
See 2017.010 use 405000	10100_70	2017.0	10100_70	10100_0
See 2014.005 use 40500	0_0	0_0	0_0	10100_0
See 2014.005 use 40500	0_0	0_0	0_0	0_0

* Data were not significantly different from the 1990-1991 and 1991-1992 Indian monsoons.

Instrument Test Results Table

Source: The International Trade Centre, which has information on 232 English countries. T3 and source data.

Accounting Task	Hours
Subsequent Communication Phase	17.5
Job Plan	10.0
Report Write	2.00
Test Plans	10.00
MR Documents	1.00
Customer Test	1.00
Review Test	1.00
Subsequent and	1.00

Agilent 2230 and 2200 HPL-MS
Preventive Maintenance Checklist

H.P. GILLIS, S. Bhattar, M. Srinivas, T. Feller

Scale: These measurements do not have units of any specification and are for reference only.

[illegible]

1111

Agencies: ELH and LHM HCP/CMR
Preventive Maintenance Checklist

Service Engineer Comments (optional)

If there are any specific questions, you can ask as part of preparing the presentation or after class if interest for the seminar, please write at this link:

[Other Important Customer Web Sites](#)

Don't let us get out of your mind. We're just getting started.

3. Download Java: <http://www.oracle.com/technetwork/java/javase-downloads-134294.html>
4. Download Java IDE: <http://www.netbeans.org/ide.netbeans-5.5.2/download.html>
5. Download NetBeans: <http://www.netbeans.org/ide.netbeans-5.5.2/download.html>
6. Download JDK: <http://www.oracle.com/technetwork/java/javase-downloads-134294.html>

Service Cancellation

Article received number: 14/02/2019 Date accepted: 28 Feb. 2019

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เอกสารไม่ควบคุม

เอกสารไม่ควบคุม

Resolution Type	Specification	Ratio
8x754, 212 mm	8 x 80	8.62
8x1040, 280 mm	8 x 20	8.20
8x1040, 307 mm	8 x 64	8.38
8x1070, 320 mm	8 x 20	8.44
10x1000, 300 mm	8 x 80	9.08
10x1210, 400 mm	8 x 76	9.60
14x1210, 380 mm	8 x 90	11.18
15x1200, 410 mm	8 x 20	14.75
16x1230, 400 mm	8 x 40	11.31
16x1267, 410 mm	8 x 20	9.68
16x1260, 460 mm	10 x 80	14.23
17x1267, 460 mm	8 x 60	8.78
18x1260, 470 mm	8 x 80	10.68
18x1267, 500 mm	8 x 20	11.24
18x1267, 570 mm	8 x 60	14.67
18x1400, 450 mm	8 x 80	10.88
18x1400, 720 mm	8 x 80	11.22
18x1400, 800 mm	8 x 80	11.40
18x1510, 510 mm	8 x 20	16.87
20x1510, 280 mm	8 x 40	16.82
20x1560, 400 mm	8 x 20	19.49

เอกสารไม่ควบคุม

เอกสารไม่ควบคุม

Sensitivity Test		Pass			
Ratio					
Element Measurement	Specification	Method	Ratio	Standard	Result
As (188-205 wt)	0.400	0000	147.7	1199.0	89.0
Se (180-228 wt)	0.450	0000	144.0	1199.0	97.7
Te (210-237 wt)	0.1000	0000	4700.0	0.0000	100.0
W (200-240 wt)	0.400	0000	160.0	289.0	100.0
Re (200-240 wt)	0.0000	0000	1.0000	288100.0	100.0
Co (200-240 wt)	0.000	000	7.0	4000.0	100.0
Bi (200-240 wt)	0.000	000	0.000	100000.0	100.0
P (190-430 wt)	0.70	000	0.0	10000.0	100.0

Fail		Pass			
Ratio					
Element Measurement	Specification	Method	Ratio	Standard	Result
As (188-205 wt)	0.000	0000	200.0	1000.0	100.0
Se (180-228 wt)	0.000	0000	220.0	1000.0	100.0
Te (210-237 wt)	0.200	0000	1000.0	1000.0	100.0
W (200-240 wt)	0.000	0000	0.000	10000.0	100.0
Re (200-240 wt)	0.000	0000	0.000	10000.0	100.0
Co (200-240 wt)	0.000	0000	0.000	10000.0	100.0
Bi (200-240 wt)	0.000	0000	0.000	10000.0	100.0
P (190-430 wt)	0.000	000	0.000	10000.0	100.0

เอกสารไม่ควบคุม

Provision Test		Pass
Provision		
Element Measurement	Specification	Measured value % RSD
As (100-300) mg	< 0.00	0.00
Cd (100-200) mg	< 0.00	0.00
Co (20-100) mg	< 0.00	0.00
Cu (200-200) mg	< 0.00	0.00
Fe (200-200) mg	< 0.00	0.00
Mn (200-200) mg	< 0.00	0.00
Ni (200-200) mg	< 0.00	0.00
Pb (100-100) mg	< 0.00	0.00
Zn (200-200) mg	< 0.00	0.00
Total		
Element Measurement	Specification	Measured value % RSD
As (100-300) mg	< 0.00	0.00
Cd (100-200) mg	< 0.00	0.00
Co (20-100) mg	< 0.00	0.00
Cu (200-200) mg	< 0.00	0.00
Fe (200-200) mg	< 0.00	0.00
Mn (200-200) mg	< 0.00	0.00
Ni (200-200) mg	< 0.00	0.00
Pb (100-100) mg	< 0.00	0.00
Zn (200-200) mg	< 0.00	0.00
Total		
Element Measurement	Specification	Measured value % RSD
As (100-300) mg	< 0.00	0.00
Cd (100-200) mg	< 0.00	0.00
Co (20-100) mg	< 0.00	0.00
Cu (200-200) mg	< 0.00	0.00
Fe (200-200) mg	< 0.00	0.00
Mn (200-200) mg	< 0.00	0.00
Ni (200-200) mg	< 0.00	0.00
Pb (100-100) mg	< 0.00	0.00
Zn (200-200) mg	< 0.00	0.00
Total		

เอกสารไม่ควบคุม

Report Summary		
Customer Model	Epson 91000100000000000000	
Accessories	Epson 91000100000000000000	
Accessories Serial Number	Epson 91000100000000000000	
Software Version	1.2.1.1000	
Firmware Version	1000	
Tested By	Epson 91000100000000000000	
Test Completed On	11/01/2000 11:40:36 AM	
Result Summary		
Subsystem Communications Test	Pass	
Air Flow Test	Pass	
Water Flow Test	Pass	
Gas Flow Test	Pass	
RF Transceiver Test	Pass	
Camera Test	Pass	
Display Test	Failed	
Acoustic Echo System Test	Failed	
Speaker Test	Failed	
Microphone Test	Failed	
Processor Test	Failed	
Subsystem Communications Test	Pass	
Air Flow Test	Pass	
Water Flow Test	100% Air Flow (normal speed)	100% Air Flow (normal speed)
Gas Flow Test	100% Air Flow (normal speed)	100% Air Flow (normal speed)
RF Transceiver Test	Pass	
Camera Test	Camera Test Pass	Camera Test Pass
Display Test	Display Test Pass	Display Test Pass
Speaker Test	Speaker Test Pass	Speaker Test Pass
Microphone Test	Microphone Test Pass	Microphone Test Pass
Processor Test	Processor Test Pass	Processor Test Pass

เอกสารไม่ควบคุม

Data Flow Test			Flow		
Initial Target Flow	Actual Flow	Back Pressure	Initial Target Flow	Actual Flow	Back Pressure
0.50	0.75	100.00	0.50	0.50	100.00
Minimum Target Flow	Actual Flow	Back Pressure	Minimum Target Flow	Actual Flow	Back Pressure
0.00	0.00	100.00	0.00	0.00	100.00

RF Generation Test		Flow	
RF Power Supply Test	Passed		
RF Power Supply (A)	147.400		
RF Oscillator Test	Passed		
RF Oscillator Frequency (MHz)	0.000		
RF Power Supply (A)	147.400		
RF Power Supply Frequency (MHz)	1.000		

Current Test			Flow	
	Integrated Time (ms)	Standard Deviation		Status
Generator Offset Test	0.000	0.000		Passed
Dark Current Test	0.000	0.000		Passed
Wiggly Test	0	0.000		Passed
Stability Test		0.000		Passed

เอกสารไม่ควบคุม





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00171-2022-7446-0000 1-488

Category	Domestic Share (%)	Foreign Share (%)	Rate of Domestication (%)	Rate of Internationalization (%)	Commentary
As	20.00	79.00	100.00	0.00	100% Domestic
As	10.00	90.00	10.00	90.00	10% Domestic, 90% International
As	5.00	95.00	5.00	95.00	5% Domestic, 95% International

Parameter	Parameter value (M ₀ = 10)	Boundary	Date of Measurement	Date of Measurement	Reference
	(deg)	(deg)	(deg)	(deg)	(deg)
α_0	15.000	15.000	15.000	15.000	15.000
	15.000	15.000	15.000	15.000	15.000
	15.000	15.000	15.000	15.000	15.000

Parameter	Normal value of $\log C$	Meaning	Unit of measurement	Corresponding $\log C$	Reference
pH	7.35-7.45	Acidosis	mmHg	7.35	1, 2, 3, 4, 5
	7.35-7.45	Alkalosis	mmHg	7.45	1, 2, 3, 4, 5
	7.35-7.45	Acidosis	mmHg	7.35	1, 2, 3, 4, 5
	7.35-7.45	Alkalosis	mmHg	7.45	1, 2, 3, 4, 5

INDUSTRIAL NETWORKING AND TESTING DEVICE USING

เอกสารไม่ควบคุม



REPORT OF CALIBRATION

2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 2681, 2682, 2683, 2684, 2685

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Equipment: UV-Vis Spectrophotometer

Manufacturers: Agilent Technologies

Model	Case
Model 1	Case 1
Model 2	Case 2
Model 3	Case 3
Model 4	Case 4
Model 5	Case 5
Model 6	Case 6
Model 7	Case 7
Model 8	Case 8
Model 9	Case 9
Model 10	Case 10
Model 11	Case 11
Model 12	Case 12
Model 13	Case 13
Model 14	Case 14
Model 15	Case 15
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Model 92	Case 92
Model 93	Case 93
Model 94	Case 94
Model 95	Case 95
Model 96	Case 96
Model 97	Case 97
Model 98	Case 98
Model 99	Case 99
Model 100	Case 100

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Michael H. Hoff | 2019 Spring | 1011

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Condition (b) is not good

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The authors declare no conflict of interest. The authors have nothing to disclose.

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Cellulose acetate: In Kugelroster (PFA) Reactor as in the literature

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Material	Serial No.	Certificate No.	Due date
Substance Standard set	20766	99905	22 December 2022
Substance Standard set	20767	99920	22 December 2022
Workinglength Standard set	20768	99919	22 October 2022
Workinglength Standard set	20769	99918	22 October 2022

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Stratification 20.5

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Wavelength (nm)	FTIR Value (nm)	UV Reading (nm)	Excitation (nm)	Emission (nm)	Correspondence (Å)
420	0.000	0.000	0.000	0.000	2.00
	0.770	0.070	0.010	0.010	2.00
	1.040	0.040	0.050	0.010	2.00
	2.180	2.180	0.010	0.010	2.00
440	0.000	0.000	0.000	0.000	2.00
	0.500	0.000	0.010	0.010	2.00
	1.000	0.000	0.010	0.010	2.00
	2.150	0.010	0.000	0.000	2.00
460	0.000	0.000	0.000	0.000	2.00
	0.520	0.010	0.010	0.000	2.00
	0.600	0.000	0.000	0.000	2.00
	2.000	0.000	0.000	0.000	2.00
480	0.000	0.000	0.000	0.000	2.00
	0.510	0.010	0.000	0.000	2.00
	1.000	0.000	0.010	0.000	2.00
	1.900	0.000	0.000	0.000	2.00
500	0.000	0.000	0.000	0.000	2.00
	0.500	0.000	0.000	0.000	2.00
	1.000	0.000	0.010	0.000	2.00
	2.000	0.000	0.000	0.000	2.00
620	0.000	0.000	0.000	0.000	2.00
	0.500	0.000	0.000	0.000	2.00
	1.000	0.000	0.000	0.000	2.00
	1.900	0.000	0.000	0.000	2.00

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Wavelength	CRH Value	CRH Reading	Conversion	Conversion	Coverage factor
nm	nm	nm	nm	nm	
200	0.0000	0.0001	0.0001	0.0001	1.00
	0.0001	0.0001	0.0001	0.0001	2.00
220	0.0000	0.0000	0.0000	0.0000	1.00
	0.0000	0.0000	0.0000	0.0000	2.00
240	0.0000	0.0000	0.0000	0.0000	1.00
	0.0001	0.0000	0.0000	0.0001	2.00
260	0.0000	0.0000	0.0000	0.0000	1.00
	0.0000	0.0000	0.0000	0.0000	2.00
280	0.0000	0.0000	0.0000	0.0000	1.00
	0.0000	0.0000	0.0000	0.0000	2.00

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120kV Value	150kV Rating	Current	Excitation	Coverage factor
100.2	100.2	100.2	100.2	1
101.75	101.8	102.8	111	1.05
176.45	176.5	180.7	111	1.05
207.20	207.3	211	111	1.05
333.68	333.7	342	111	1.05
540.35	540.4	549	111	1.05
632.78	632.8	642	111	1.05
647.90	647.9	657	111	1.05
675.82	675.8	686	111	1.05
684.45	684.5	693	111	1.05
730.14	730.2	739	111	1.05
827.98	828.0	838	111	1.05
<hr/>				
831.78	831.8	840	111	1.05
872.85	872.9	880	111	1.05
914.47	914.5	924	111	1.05
938.68	938.7	948	111	1.05
970.77	970.8	980	111	1.05
1012.31	1012.4	1020	111	1.05
1044.40	1044.5	1056	111	1.05
1067.52	1067.6	1084	111	1.05
1082.05	1082.1	1100	111	1.05
1097.20	1097.3	1117	111	1.05
1112.20	1112.3	1136	111	1.05

Health and Safety

Uncontrolled Document



1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

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The economic growth of the economy has been hindered by a number of factors, but the most important one is the lack of investment in infrastructure. The government has been unable to attract foreign investment, and the private sector has been unable to invest in infrastructure. This has led to a decline in the economy's growth rate.

เอกสารไม่ควบคุม

REPORT OF CALIBRATION

Certificate No.: 0210-902

Page 2 of 9

Keywords: *Exercise; Cognition; Attention; Memory; Performance*

[illegible]

Validation method: 10-fold cross-validation (CV) (see also [22]).

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Assessment	Assess. No.	Examination No.	Issue date
Assessment: Standard apt	22760	99918	22 October 2020
Assessment: Standard apt	22757	99919	22 October 2020
30-weekly apt: Standard apt	22806	99916	22 October 2020
30-weekly apt: Standard apt	22758	99915	22 October 2020

Transparency: This contribution is directly to the International Centre of Child Assessment at Oxford.

Institute of Standards and Technology (NIST) through NIST Science & Technology Center

Department of Health Services, University of California, San Francisco, CA 94143-0780.

Source: Speed of VVC = 220 m/min.

Source: International and U.S. V.C. 1980-1981. <http://www.fishbase.org>.

Journal of Child Psychology and Psychiatry 45:10 (2004), pp 1161–1176

Workdays: 20 days

เอกสารไม่ควบคุม

REPORT OF CALIBRATION

Cellular No. 00110001

2009年 5月 4日

Catherine Russell / Wilson Johnson

Producers Agreement:

Micrograph	C1000 Values	C1000 Repeating	C10000	C100000	C1000000	C10000000
C1000	0.0000	0.000	0.0000	0.0000	0.0000	0.000
	0.0001	0.001	0.0001	0.0001	0.0001	0.000
	0.0002	0.002	0.0002	0.0002	0.0002	0.000
	0.0003	0.003	0.0003	0.0003	0.0003	0.000
C10000	0.0000	0.000	0.0000	0.0000	0.0000	0.000
	0.0001	0.001	0.0001	0.0001	0.0001	0.000
	0.0002	0.002	0.0002	0.0002	0.0002	0.000
	0.0003	0.003	0.0003	0.0003	0.0003	0.000
C100000	0.0000	0.000	0.0000	0.0000	0.0000	0.000
	0.0001	0.001	0.0001	0.0001	0.0001	0.000
	0.0002	0.002	0.0002	0.0002	0.0002	0.000
	0.0003	0.003	0.0003	0.0003	0.0003	0.000
C1000000	0.0000	0.000	0.0000	0.0000	0.0000	0.000
	0.0001	0.001	0.0001	0.0001	0.0001	0.000
	0.0002	0.002	0.0002	0.0002	0.0002	0.000
	0.0003	0.003	0.0003	0.0003	0.0003	0.000
C10000000	0.0000	0.000	0.0000	0.0000	0.0000	0.000
	0.0001	0.001	0.0001	0.0001	0.0001	0.000
	0.0002	0.002	0.0002	0.0002	0.0002	0.000
	0.0003	0.003	0.0003	0.0003	0.0003	0.000

เอกสารไม่ควบคุม

REPORT OF CALIBRATION

Certified No. 1075499

2000

Pharmaceutical Advertising 1

Wavelength	CRW Value	CCC Reading	Conversion	Correlation	Coverage Ratio
1000	0.000	0.000	0.000	0.000	0
200	0.000	0.000	0.000	0.000	0.00
	0.000	0.000	0.000	0.000	0.00
300	0.000	0.000	0.000	0.000	0.00
	0.000	0.000	0.000	0.000	0.00
400	0.000	0.000	0.000	0.000	0.00
	0.000	0.000	0.000	0.000	0.00
500	0.000	0.000	0.000	0.000	0.00
	0.000	0.000	0.000	0.000	0.00
600	0.000	0.000	0.000	0.000	0.00
	0.000	0.000	0.000	0.000	0.00
700	0.000	0.000	0.000	0.000	0.00
	0.000	0.000	0.000	0.000	0.00
800	0.000	0.000	0.000	0.000	0.00
	0.000	0.000	0.000	0.000	0.00
900	0.000	0.000	0.000	0.000	0.00
	0.000	0.000	0.000	0.000	0.00

เอกสารไม่ควบคุม

REPORT OF CALIBRATION

Family No. 21190

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LSMR Values	LSMR Bandwidth	LSMR Covariance	LSMR Consistency	Coverage Rates
mean	mean	mean	mean	%
200.00	200.00	0.78	0.78	2.00
250.00	250.00	0.80	0.79	2.50
300.00	300.00	0.79	0.78	3.00
350.00	350.00	0.77	0.77	3.50
400.00	400.00	0.76	0.76	4.00
450.00	450.00	0.75	0.75	4.50
500.00	500.00	0.74	0.74	5.00
550.00	550.00	0.73	0.73	5.50
600.00	600.00	0.72	0.72	6.00
650.00	650.00	0.71	0.71	6.50
700.00	700.00	0.70	0.70	7.00
750.00	750.00	0.69	0.69	7.50
800.00	800.00	0.68	0.68	8.00
850.00	850.00	0.67	0.67	8.50
900.00	900.00	0.66	0.66	9.00
950.00	950.00	0.65	0.65	9.50
1000.00	1000.00	0.64	0.64	10.00
1050.00	1050.00	0.63	0.63	10.50
1100.00	1100.00	0.62	0.62	11.00
1150.00	1150.00	0.61	0.61	11.50
1200.00	1200.00	0.60	0.60	12.00
1250.00	1250.00	0.59	0.59	12.50
1300.00	1300.00	0.58	0.58	13.00
1350.00	1350.00	0.57	0.57	13.50
1400.00	1400.00	0.56	0.56	14.00
1450.00	1450.00	0.55	0.55	14.50
1500.00	1500.00	0.54	0.54	15.00
1550.00	1550.00	0.53	0.53	15.50
1600.00	1600.00	0.52	0.52	16.00
1650.00	1650.00	0.51	0.51	16.50
1700.00	1700.00	0.50	0.50	17.00
1750.00	1750.00	0.49	0.49	17.50
1800.00	1800.00	0.48	0.48	18.00
1850.00	1850.00	0.47	0.47	18.50
1900.00	1900.00	0.46	0.46	19.00
1950.00	1950.00	0.45	0.45	19.50
2000.00	2000.00	0.44	0.44	20.00

Source: 2000 Census Bureau Collection

Address:

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DOI: 10.1177/1056492609358000
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— *Journal of the American Medical Association* —

เอกสารไม่ควบคุม

รายการใบรับรองสอบเทียบ/ทวนสอบ เครื่องมือหลักประจำห้องปฏิบัติการ สำหรับวิเคราะห์คุณภาพน้ำผิวดิน น้ำใต้ดิน และน้ำทิ้ง

No.	Instrument/Equipment	Parameter	Manufacturer	Model/Serial No.	Calibrator	Certification No.	Date of Calibration	Due date of Calibration*	Remark
Laboratory Instrument/Equipment:									
1	pH Meter	pH	Mettler-Toledo	Seven Easy S20 / 1230525212	National Food Institute, Ministry of Industry, Thailand	2302181-001-01	24 Mar 23	22 Mar 24	-
2	pH Meter	Temperature		Seven Compact S220 / C113432421	National Food Institute, Ministry of Industry, Thailand	2303560-001-01	22 Jun 23	21 Jun 24	-
3	Conductivity Meter	Electrical Conductivity	SI Analytics	Lab955 / 16300356	DKSH Technology Limited	C24230059	16 Mar 23	14 Mar 24	-
4	Analytical Balance (Readability 0.01 mg)	Total Solids	Mettler-Toledo	AB204-S/FACT 1129361010	National Food Institute, Ministry of Industry, Thailand	2303074-001-01	26 May 23	2 May 24	-
5	Hot Air Oven	Total Dissolved Solids Total Suspended Solids		UF55 / B216.1666	Technology Promotion Association (Thailand-Japan)	22TM1490	19 Oct 22	18 Oct 23	-
6	BOD Incubator	Biochemical Oxygen Demand	Arco	UC4-1320 / (UAE.WAO.015/2561)	Technology Promotion Association (Thailand-Japan)	23TM249	15 Feb 23	14 Feb 24	-
7	BOD Incubator		Arco	UR-1320 / (UAE.WAO.018/2551)	Technology Promotion Association (Thailand-Japan)	23TM375	12 Apr 23	10 Apr 24	-
8	Analytical Balance (Readability 0.1 mg)	Fat Oil And Grease	Mettler-Toledo	XSR204/ C117635043	National Food Institute, Ministry of Industry, Thailand	2302827-001-01	10 May 23	9 May 24	-
9	Incubator	Total Coliform Bacteria Faecal Coliform Bacteria	Memmert	IPP 260 / V615.0187	Technology Promotion Association (Thailand-Japan)	23TM378	12 Apr 23	10 Apr 24	-
10	Incubator		Memmert	IPP 260 / V618.0033	Technology Promotion Association (Thailand-Japan)	23TM729	27 Apr 23	26 Apr 24	-
11	Water Bath		Memmert	WNE 14 / L416.0606	Technology Promotion Association (Thailand-Japan)	23TM193	15 Feb 23	14 Feb 24	-

รายการใบรับรองสอบเทียบ/ทวนสอบ เครื่องมือหลักประจำห้องปฏิบัติการ สำหรับวิเคราะห์คุณภาพน้ำผิวดิน น้ำใต้ดิน และน้ำทิ้ง

No.	Instrument/Equipment	Parameter	Manufacturer	Model/Serial No.	Calibrator	Certification No.	Date of Calibration	Due date of Calibration*	Remark
Laboratory Instrument/Equipment:									
12	Water Bath	Total Coliform Bacteria Faecal Coliform Bacteria	Memmert	WNE 14 / L416.0612	Technology Promotion Association (Thailand-Japan)	23TM194	15 Feb 23	14 Feb 24	-
13	Analytical Balance		OHAUS	PX623 / C236754745	DKSH (Thailand) Ltd.	C01223732	9 Dec 22	8 Dec 23	-
14	Auto Clave		ALP	CL-40L / 810010	DKSH (Thailand) Ltd.	C11230106	9 Jun 23	8 Jun 24	-
15	Atomic Absorption Spectrophotometer (AAS)	Iron, Titanium, Arsenic, Cadmium, Manganese, Chromium, Copper, Barium, Lead, Mercury, Nickel,	Agilent Technologies	System ID:G8432A AA240FS / MY13160001	Thailand Institute of Scientific and Technological Research(TISTR)	MTC-ACL.No. 387/66	2 Feb 23	1 Feb 24	-
16	Inductively Coupled Plasma (ICP)	Selenium, Chromium Trivalent, Chromium Hexalent, Zinc Titanium, Chromium	Agilent Technologies	System ID:G8015A G8015AA / MY18030001	Agilent Technologies (Thailand) Co.,Ltd.	Preventive Maintenance Checklist	30 Nov 22	29 Nov 23	-
17	UV-VIS Spectrophotometer	Phosphate, Ammonia-Nitrogen Sulphate, Cyanide	Agilent Technologies	Cary60 / MY15410009	DQE Services Co.,Ltd.	SP23-021	20 May 23	19 May 24	-
18	UV-VIS Spectrophotometer	Nitrate Nitrogen, Phenols, Colour, Chromium Hexalent, Total Nitrogen	Hitachi	U-1900 / 2021-064	DQE Services Co.,Ltd.	SP23-007	6 Jan 23	5 Jan 24	-
19	UV-VIS Spectrophotometer	Chemical Oxygen Demand Formaldehyde, Cyanide As HCN	Hitachi	U-2900 / 21E22-009	DQE Services Co.,Ltd.	SP23-008	6 Jan 23	5 Jan 24	-
20	COD Reactor (Heating Block)	Chemical Oxygen Demand	Hanna	H1839800-02 / H0185001	Hanna Instruments (Thailand) Ltd.	HIT-2312-0342	10 Mar 23	9 Mar 24	-
21	Digestor Unit	Total Kjeldahl Nitrogen (TKN)	FOSS TECATOR	2520auto / 91794469	National Food Institute, Ministry of Industry, Thailand	2302413-001-01	30 Mar 23	28 Mar 24	-

รายการใบรับรองสอบเทียบ/ทวนสอบ เครื่องมือหลักประจำห้องปฏิบัติการ สำหรับวิเคราะห์คุณภาพน้ำผิวดิน น้ำใต้ดิน และน้ำทิ้ง

No.	Instrument/Equipment	Parameter	Manufacturer	Model/Serial No.	Calibrator	Certification No.	Date of Calibration	Due date of Calibration*	Remark
Laboratory Instrument/Equipment:									
22	Distillation Unit (kjeldahl Method)	Ammonia-Nitrogen Total Kjeldahl Nitrogen (TKN)	FOSS TECATOR	KT200 / 91790524	FOSS South East Asia	7824	17 Jan 23	16 Jan 24	-
23	Gas Chromatography (GC)	Organochlorine Pesticides, 2,4-D, Benzo (a) Pyrene, PCBs, Pentachlorophenol Atrazine	Agilent Technologies	System ID:CN11021007 7890 / CN11021007	Agilent Technologies (Thailand) Co.,Ltd.	Certificate of System Qualification GC-OQ	23 Feb 23	22 Feb 24	-
24	Gas Chromatography (GC)		Agilent Technologies	System ID:CN13113001 7890 / CN13113001	Agilent Technologies (Thailand) Co.,Ltd.	Certificate of System Qualification GC-OQ	19 Apr 23	17 Apr 24	-
25	Gas Chromatography / Mass Spectrometry (GC-MS)	Benzene, Carbon Tetrachloride, 1,2-Dichloroethane, Styrene, 1,1-Dichloroethylene, Toluene, cis-1,2-Dichloroethylene, trans-1,2-Dichloroethylene, Dichloromethane, Total Xylenes, Ethylbenzene, Tetrachloroethylene, Trichloroethylene, 1,1,1-Trichloroethane, 1,1,2-Trichloroethane	Agilent Technologies	G7077B/ US2009M037	Agilent Technologies (Thailand) Co.,Ltd.	Preventive Maintenance Checklist	14 Jun 23	13 Jun 24	-
26	Turbidity Meter	Turbidity	Oakton	T100IR / 1120501017	Technology Promotion Association (Thailand-Japan)	23CH1148	14 Sep 23	13 Sep 24	-

Due Date of Calibration* : Based on the annual calibration plan. At least 1 time per year.

Calibration Certificate

Certificate No.: 0000000000
Client name: NFI
Address: NFI
Request: Calibration Certificate

Equipment: pH Meter
Manufacturer: Mettler
Model: SevenDay
Serial No.: 00000000
ID No.: 00000000
Order No.: 000000
Operation No.: 00000000
Date of Receipt: 01 March 2022
Date of Calibration: 01 March 2022

Calibrated by: Mr. Pradit Thairat
Approved by: 
Specialist Officer of Calibration Laboratory
Responsible for the Technical Management Team

This certificate is valid for the duration of the calibration period.
The certificate is valid for the duration of the calibration period.
The certificate is valid for the duration of the calibration period.
The certificate is valid for the duration of the calibration period.
The certificate is valid for the duration of the calibration period.

เอกสารไม่ควบคุม

Calibration Report

Certificate No.: 0000000000
Equipment: pH Meter
Manufacturer: Mettler
Model: SevenDay
Serial No.: 00000000
ID No.: 00000000
Order No.: 000000
Operation No.: 00000000
Date of Receipt: 01 March 2022
Date of Calibration: 01 March 2022

Location: NFI
Environment Condition: NFI
Condition of this result of Calibration: NFI

Item	Result	Unit	Acceptance	Remarks
1. pH Meter	7.00	pH	7.00 ± 0.01	
2. pH Meter	7.00	pH	7.00 ± 0.01	
3. pH Meter	7.00	pH	7.00 ± 0.01	
4. pH Meter	7.00	pH	7.00 ± 0.01	
5. pH Meter	7.00	pH	7.00 ± 0.01	

1. The certificate is valid for the duration of the calibration period.
2. The certificate is valid for the duration of the calibration period.
3. The certificate is valid for the duration of the calibration period.
4. The certificate is valid for the duration of the calibration period.
5. The certificate is valid for the duration of the calibration period.

01 March 2022

เอกสารไม่ควบคุม

Calibration Report

Certificate No.: 0000000000
Equipment: pH Meter
Manufacturer: Mettler
Model: SevenDay
Serial No.: 00000000
ID No.: 00000000
Order No.: 000000
Operation No.: 00000000
Date of Receipt: 01 March 2022
Date of Calibration: 01 March 2022

Location: NFI
Environment Condition: NFI
Condition of this result of Calibration: NFI

Item	Result	Unit	Acceptance	Remarks
1. pH Meter	7.00	pH	7.00 ± 0.01	
2. pH Meter	7.00	pH	7.00 ± 0.01	
3. pH Meter	7.00	pH	7.00 ± 0.01	
4. pH Meter	7.00	pH	7.00 ± 0.01	
5. pH Meter	7.00	pH	7.00 ± 0.01	

1. The certificate is valid for the duration of the calibration period.
2. The certificate is valid for the duration of the calibration period.
3. The certificate is valid for the duration of the calibration period.
4. The certificate is valid for the duration of the calibration period.
5. The certificate is valid for the duration of the calibration period.

Item	Result	Unit	Acceptance	Remarks
1. pH Meter	7.00	pH	7.00 ± 0.01	
2. pH Meter	7.00	pH	7.00 ± 0.01	
3. pH Meter	7.00	pH	7.00 ± 0.01	
4. pH Meter	7.00	pH	7.00 ± 0.01	
5. pH Meter	7.00	pH	7.00 ± 0.01	

01 March 2022

เอกสารไม่ควบคุม

Calibration Report

Certificate No.: 0000000000
Equipment: pH Meter
Manufacturer: Mettler
Model: SevenDay
Serial No.: 00000000
ID No.: 00000000
Order No.: 000000
Operation No.: 00000000
Date of Receipt: 01 March 2022
Date of Calibration: 01 March 2022

Location: NFI
Environment Condition: NFI
Condition of this result of Calibration: NFI

Item	Result	Unit	Acceptance	Remarks
1. pH Meter	7.00	pH	7.00 ± 0.01	
2. pH Meter	7.00	pH	7.00 ± 0.01	
3. pH Meter	7.00	pH	7.00 ± 0.01	
4. pH Meter	7.00	pH	7.00 ± 0.01	
5. pH Meter	7.00	pH	7.00 ± 0.01	

1. The certificate is valid for the duration of the calibration period.
2. The certificate is valid for the duration of the calibration period.
3. The certificate is valid for the duration of the calibration period.
4. The certificate is valid for the duration of the calibration period.
5. The certificate is valid for the duration of the calibration period.

Item	Result	Unit	Acceptance	Remarks
1. pH Meter	7.00	pH	7.00 ± 0.01	
2. pH Meter	7.00	pH	7.00 ± 0.01	
3. pH Meter	7.00	pH	7.00 ± 0.01	
4. pH Meter	7.00	pH	7.00 ± 0.01	
5. pH Meter	7.00	pH	7.00 ± 0.01	

1. The certificate is valid for the duration of the calibration period.
2. The certificate is valid for the duration of the calibration period.
3. The certificate is valid for the duration of the calibration period.
4. The certificate is valid for the duration of the calibration period.
5. The certificate is valid for the duration of the calibration period.

01 March 2022

เอกสารไม่ควบคุม

Calibration Report

Certificate No.: 2023000001
Equipment: Digital Thermometer with RTD probe
Brand: Fluke
Model: 9000
Serial No.: 12345678
Manufacturer: Fluke
Location: Bangkok, Thailand
Date of Calibration: 20 Jan 2023

Location: Environmental Laboratory, DKSH Technology Limited
Environmental Conditions: Temperature: 23 °C ± 0.5 °C
 Humidity: 55 %RH ± 5 %RH

Summary of the results of Calibration

1. Calibration Status: The instrument is in good condition and meets the requirements for use.
2. Calibration Results: The instrument is in good condition and meets the requirements for use.
3. Calibration Results: The instrument is in good condition and meets the requirements for use.
4. Calibration Results: The instrument is in good condition and meets the requirements for use.

Parameter	Value	Unit	Uncertainty	Acceptance	Pass/Fail
Temperature	23.00	°C	±0.05	Pass	Pass
Humidity	55.00	%RH	±0.50	Pass	Pass

Report prepared by: Environmental Laboratory, DKSH Technology Limited

1. The instrument is in good condition and meets the requirements for use.
2. The instrument is in good condition and meets the requirements for use.
3. The instrument is in good condition and meets the requirements for use.
4. The instrument is in good condition and meets the requirements for use.

[Signature]
 20 Jan 2023

Printed on: 20 Jan 2023

เอกสารไม่ควบคุม

Calibration Report

Certificate No.: 2023000001
Equipment: Digital Thermometer with RTD probe
Brand: Fluke
Model: 9000
Serial No.: 12345678
Manufacturer: Fluke
Location: Bangkok, Thailand
Date of Calibration: 20 Jan 2023

Calibration system: Fluke 9000
Calibration results:

1. Calibration Status: The instrument is in good condition and meets the requirements for use.
2. Calibration Results: The instrument is in good condition and meets the requirements for use.
3. Calibration Results: The instrument is in good condition and meets the requirements for use.
4. Calibration Results: The instrument is in good condition and meets the requirements for use.

Parameter	Value	Unit	Uncertainty	Acceptance	Pass/Fail
Temperature	23.00	°C	±0.05	Pass	Pass
Humidity	55.00	%RH	±0.50	Pass	Pass

Report prepared by: Environmental Laboratory, DKSH Technology Limited

[Signature]
 20 Jan 2023

Printed on: 20 Jan 2023

เอกสารไม่ควบคุม



Certificate of Calibration

Equipment: CONDUCTIVITY METER
Model: LAB 300
Serial No. (S/N): 12345678
Manufacturer: SK Analytical
Location: Bangkok, Thailand
Date of Calibration: 20 Jan 2023
Certificate No.: 2023000001
Brand: SK Analytical

Customer: United Analytical and Engineering Consultant Company Limited
 11 Sukhumvit 41 Sukhumvit Road,
 Bangkok, Thailand 10260 Thailand

Environmental Conditions: Temperature: 23 °C ± 0.5 °C
 Humidity: 55 %RH ± 5 %RH

Calibration Place: Environmental Laboratory, DKSH Technology Limited
 2023 Sukhumvit Road, Bangkok,
 Thailand, Bangkok 10260 Thailand

Calibration By: Mr. Natcha Ngerntham
Calibration Date: 20 Jan 2023
The Method used: In-house method, CAL-WH-01, based on ASTM D 1125-04 and D 589-04
Traceability: This certificate is traceable to the SI Units maintained by NIST through NIST Special Publication 400-1, 400-2, 400-3, 400-4, 400-5, 400-6, 400-7, 400-8, 400-9, 400-10, 400-11, 400-12, 400-13, 400-14, 400-15, 400-16, 400-17, 400-18, 400-19, 400-20, 400-21, 400-22, 400-23, 400-24, 400-25, 400-26, 400-27, 400-28, 400-29, 400-30, 400-31, 400-32, 400-33, 400-34, 400-35, 400-36, 400-37, 400-38, 400-39, 400-40, 400-41, 400-42, 400-43, 400-44, 400-45, 400-46, 400-47, 400-48, 400-49, 400-50, 400-51, 400-52, 400-53, 400-54, 400-55, 400-56, 400-57, 400-58, 400-59, 400-60, 400-61, 400-62, 400-63, 400-64, 400-65, 400-66, 400-67, 400-68, 400-69, 400-70, 400-71, 400-72, 400-73, 400-74, 400-75, 400-76, 400-77, 400-78, 400-79, 400-80, 400-81, 400-82, 400-83, 400-84, 400-85, 400-86, 400-87, 400-88, 400-89, 400-90, 400-91, 400-92, 400-93, 400-94, 400-95, 400-96, 400-97, 400-98, 400-99, 400-100, 400-101, 400-102, 400-103, 400-10

ชื่อเครื่องวัด: CONDUCTIVITY METER No. Lab: 985

วันที่รับเข้า: 10/05/2022
หมายเลขเครื่อง: 10000000

วันที่ตรวจ (Date)		วันที่ตรวจ (Date)		วันที่ตรวจ (Date)		วันที่ตรวจ (Date)	
10 May 2022		10 May 2022		10 May 2022		10 May 2022	
ชื่อ	ชื่อ	ชื่อ	ชื่อ	ชื่อ	ชื่อ	ชื่อ	ชื่อ
General							
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1. การสอบเทียบ	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2. การตรวจสอบ (Visual Inspection, Internal Inspection)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3. การสอบเทียบ (Calibration)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4. การสอบเทียบ (Calibration)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	5. การสอบเทียบ (Calibration)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Specifications							
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	6. ความแม่นยำ (Accuracy)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	7. ความละเอียด (Resolution)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	8. ความไว (Sensitivity)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	9. ความเสถียร (Stability)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	10. ความทนทาน (Durability)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11. ความปลอดภัย (Safety)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Performance							
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12. ความแม่นยำ (Accuracy)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	13. ความละเอียด (Resolution)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	14. ความไว (Sensitivity)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	15. ความเสถียร (Stability)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	16. ความทนทาน (Durability)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Automatic Error							
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	17. การสอบเทียบ (Calibration)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	18. การสอบเทียบ (Calibration)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	19. การสอบเทียบ (Calibration)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	20. การสอบเทียบ (Calibration)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

ผลการสอบเทียบ: Conductivity Meter 25.0°C See Calibration Certificate 10000000

By: [Signature]
Name: [Name]

เอกสารไม่ควบคุม

Lab No: 985-01 (10-05-2022)

Calibration Certificate

Certificate No.: 10000000-001-01
Client name: UNITED ANALYST AND ENGINEERING CONSULTANT CO., LTD.
Address: 8/1 Sukhumvit 11, Sathorn Road, Bangkok, Thailand, Bangkok 10110

Page 1 of 2

Equipment: Conductivity Meter
Manufacturer: HANNA
Model: HI9142
Serial No.: 10000000
ID No.: 10000000-001-01
Order No.: 10000000
Operation No.: 10000000
Date of Receipt: 10 May 2022
Date of Calibration: 10 May 2022

Calibrated by: [Signature]
Approved by: [Signature]
Date of Issue: 10 May 2022

The uncertainty for this calibration is approximately 0.1%
The Certificate is issued in accordance with the provisions of accreditation granted by the Thai Laboratory Accreditation Scheme (TAS) and is valid for the purpose of the calibration of the equipment and is not valid for any other purpose. The certificate may be used for the purpose of the calibration of the equipment and is not valid for any other purpose.

10000000-001-01 (10-05-2022)

เอกสารไม่ควบคุม

Calibration Report

Certificate No.: 10000000-001-01
Equipment: Conductivity Meter
Manufacturer: HANNA
Model: HI9142
Serial No.: 10000000
ID No.: 10000000-001-01
Date of Calibration: 10 May 2022

Page 1 of 2

Environment Condition: Ambient Temperature: 25.0°C ± 0.1°C, Humidity: 40% ± 2%

Place of Calibration: 8/1 Sukhumvit 11, Sathorn Road, Bangkok, Thailand, Bangkok 10110

Condition of Equipment: Good

Condition of Test Results of Calibration:

1. Accuracy: ±0.1% (See Calibration Certificate 10000000-001-01)

2. Precision: ±0.1% (See Calibration Certificate 10000000-001-01)

3. Resolution: ±0.1% (See Calibration Certificate 10000000-001-01)

4. Stability: ±0.1% (See Calibration Certificate 10000000-001-01)

5. Durability: ±0.1% (See Calibration Certificate 10000000-001-01)

6. Safety: ±0.1% (See Calibration Certificate 10000000-001-01)

7. Reliability: ±0.1% (See Calibration Certificate 10000000-001-01)

8. Reproducibility: ±0.1% (See Calibration Certificate 10000000-001-01)

9. Consistency: ±0.1% (See Calibration Certificate 10000000-001-01)

10. Compliance: ±0.1% (See Calibration Certificate 10000000-001-01)

11. Performance: ±0.1% (See Calibration Certificate 10000000-001-01)

12. Reliability: ±0.1% (See Calibration Certificate 10000000-001-01)

13. Consistency: ±0.1% (See Calibration Certificate 10000000-001-01)

14. Compliance: ±0.1% (See Calibration Certificate 10000000-001-01)

15. Performance: ±0.1% (See Calibration Certificate 10000000-001-01)

16. Reliability: ±0.1% (See Calibration Certificate 10000000-001-01)

17. Consistency: ±0.1% (See Calibration Certificate 10000000-001-01)

18. Compliance: ±0.1% (See Calibration Certificate 10000000-001-01)

19. Performance: ±0.1% (See Calibration Certificate 10000000-001-01)

20. Reliability: ±0.1% (See Calibration Certificate 10000000-001-01)

21. Consistency: ±0.1% (See Calibration Certificate 10000000-001-01)

22. Compliance: ±0.1% (See Calibration Certificate 10000000-001-01)

23. Performance: ±0.1% (See Calibration Certificate 10000000-001-01)

24. Reliability: ±0.1% (See Calibration Certificate 10000000-001-01)

25. Consistency: ±0.1% (See Calibration Certificate 10000000-001-01)

26. Compliance: ±0.1% (See Calibration Certificate 10000000-001-01)

27. Performance: ±0.1% (See Calibration Certificate 10000000-001-01)

28. Reliability: ±0.1% (See Calibration Certificate 10000000-001-01)

29. Consistency: ±0.1% (See Calibration Certificate 10000000-001-01)

30. Compliance: ±0.1% (See Calibration Certificate 10000000-001-01)

Calibration Report

Certificate No.: 10000000-001-01
Equipment: Conductivity Meter
Manufacturer: HANNA
Model: HI9142
Serial No.: 10000000
ID No.: 10000000-001-01
Date of Calibration: 10 May 2022

Page 2 of 2

Calibration Result: (Continued)

Calibration Range: 0.001 g

Calibration Adjustment: (Continued)

2. Deviation from Nominal Value:

Serial No.	Meas. Value	Actual Value	Deviation	Uncertainty	Compliance
1	0.001	0.001	0.000	±0.001	Yes
2	0.002	0.002	0.000	±0.001	Yes
3	0.003	0.003	0.000	±0.001	Yes
4	0.004	0.004	0.000	±0.001	Yes
5	0.005	0.005	0.000	±0.001	Yes
6	0.006	0.006	0.000	±0.001	Yes
7	0.007	0.007	0.000	±0.001	Yes
8	0.008	0.008	0.000	±0.001	Yes
9	0.009	0.009	0.000	±0.001	Yes
10	0.010	0.010	0.000	±0.001	Yes
11	0.011	0.011	0.000	±0.001	Yes
12	0.012	0.012	0.000	±0.001	Yes
13	0.013	0.013	0.000	±0.001	Yes
14	0.014	0.014	0.000	±0.001	Yes
15	0.015	0.015	0.000	±0.001	Yes
16	0.016	0.016	0.000	±0.001	Yes
17	0.017	0.017	0.000	±0.001	Yes
18	0.018	0.018	0.000	±0.001	Yes
19	0.019	0.019	0.000	±0.001	Yes
20	0.020	0.020	0.000	±0.001	Yes

The reported uncertainty of measurement for this report is derived from the standard uncertainty of the calibration of the equipment and is not valid for any other purpose.

10000000-001-01 (10-05-2022)

เอกสารไม่ควบคุม

Study Date: 05/18/2011
Page: 3 of 8

Certificate of Calibration

[illegible]

1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 26

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เอกสารไม่ควบคุม



541 04 115446

Table 1. *Continued*

Marques, V.

a. $\frac{1}{2}$ for 1st, $\frac{1}{2}$ for 2nd, $\frac{1}{2}$ for 3rd, $\frac{1}{2}$ for 4th, $\frac{1}{2}$ for 5th
 b. $\frac{1}{2}$ for 1st, $\frac{1}{2}$ for 2nd, $\frac{1}{2}$ for 3rd, $\frac{1}{2}$ for 4th, $\frac{1}{2}$ for 5th

948 995, 1146

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1999

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Submitted:	July 29, 2008
Received by Bureau:	August 6, 2008
Reviewed:	Unreviewed
Procedure Used:	

Cart. 166 (1077442)
 1899 : 2 vol 11

Cells were treated using various products of 2012, according to their manufacturer's instructions. Cells were treated with Resveratrol (Tosoh Chemicals, Ltd.) and Resveratrol, Table 1.

The following table lists the results of the 1998 survey.

Examination of the results of cathodic

Exhibit	Index	Page No.	Cell No.	Unit Date
1. Case History	1	101-111	101-111	101-111

2. The coefficient of variation is the ratio obtained by dividing the standard deviation by the mean.

5. This certificate is dependent on the International System of units

Result of `getAnswer()`: 1.75 (float) is correct

Frequency of MAF	Normalized Slopes
0.0000	0.0000
0.0001	0.0000
0.0002	0.0000
0.0003	0.0000
0.0004	0.0000
0.0005	0.0000
0.0006	0.0000
0.0007	0.0000
0.0008	0.0000
0.0009	0.0000
0.0010	0.0000
0.0011	0.0000
0.0012	0.0000
0.0013	0.0000
0.0014	0.0000
0.0015	0.0000
0.0016	0.0000
0.0017	0.0000
0.0018	0.0000
0.0019	0.0000
0.0020	0.0000
0.0021	0.0000
0.0022	0.0000
0.0023	0.0000
0.0024	0.0000
0.0025	0.0000
0.0026	0.0000
0.0027	0.0000
0.0028	0.0000
0.0029	0.0000
0.0030	0.0000
0.0031	0.0000
0.0032	0.0000
0.0033	0.0000
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0.0085	0.0000
0.0086	0.0000
0.0087	0.0000
0.0088	0.0000
0.0089	0.0000
0.0090	0.0000
0.0091	0.0000
0.0092	0.0000
0.0093	0.0000
0.0094	0.0000
0.0095	0.0000
0.0096	0.0000
0.0097	0.0000
0.0098	0.0000
0.0099	0.0000
0.0100	0.0000

Source: *U.S. Census Bureau, Current Population Reports*.



	Beginning	Final
Long (10%)	20	20
Mid (short) (5%)	20	40
AC (short) (10%)	20	20

Ref. No. AC-10-05	
Application Notes	
Position	100% / 200% / 300% / 400%
1	100% / 200% / 300% / 400%
2	100% / 200% / 300% / 400%
3	100% / 200% / 300% / 400%
4	100% / 200% / 300% / 400%
5	100% / 200% / 300% / 400%
6	100% / 200% / 300% / 400%
7	100% / 200% / 300% / 400%
8	100% / 200% / 300% / 400%
9	100% / 200% / 300% / 400%
10	100% / 200% / 300% / 400%

Force composition/Category	Differences of Elements	
X1	5.5	35
X2	10	50
X3	15	65
X4	20	80
Differences =		4.500

เอกสารไม่ควบคุม



Synonyms:	See also <i>trans</i> .
Condition or treatment:	Cisplatin.
Reference:	Zeng et al. ¹
Report of outcome:	(1) Whole exome sequencing.

Page No. 2074040
Page: 1 of 1

Publication of this advertisement does not constitute an endorsement or approval by the U.S. Department of Education of the quality or value of the product advertised or of the claims made for it by its manufacturer.

From all settings: ☐ Close

Iteration	min Temp	min Heating	Temperature stability (± 0.1)	Temperature stability (± 0.1)	Blank Residuals (%)	Accuracy (± 0.1)	Change Rate
100	100.0	100.0	0.00	0.0	0.0	0	
200	100.0	100.0	0.00	0.0	0.0	0	
300	100.0	100.0	0.00	0.0	0.0	0	

[illegible]

Answer: The average of 20 values in each column.

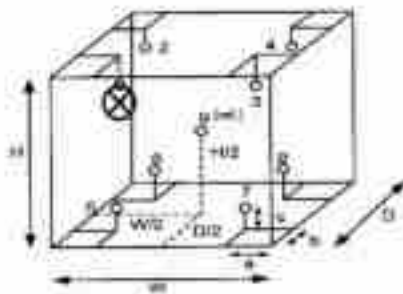
The overall probability of measurement error based on 4 observed outcomes multiplied by a coverage factor of 2, resulting in a level of confidence of approximately 90 %.

10

เอกสารไม่ควบคุม

กำหนดจุดห้ามใช้งาน

References Certificate Number.: 227M1490
 Equipment.: Hot Air Oven
 Model.: UF55
 Serial No.: B216.1666
 ID No.: UAE.WAQ.027/2559
 Manufacturer.: Memmert
 Calibration Point.: 180.0 °C
 Unit Under Calibration Setting.: 180.0 °C



รูปภาพแสดงเงื่อนไข และจุดที่ได้รับผลกระทบ และสัญลักษณ์ ⊗ แสดงจุดห้ามใช้งาน

กำหนดจุดห้ามใช้งานตำแหน่งที่...1.....

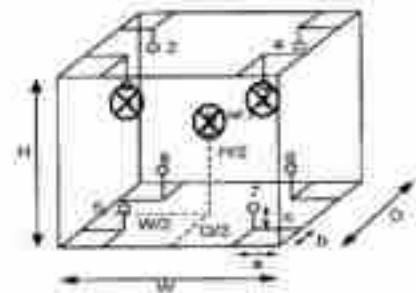
นางสาว อลิษา

นางสาวอลิษา อธิษฐาน (นางสาวอลิษา อธิษฐาน) เป็นผู้จัดทำเอกสารนี้โดยมีหน้าที่รับผิดชอบในการจัดทำเอกสารนี้ให้ถูกต้องและครบถ้วน

เอกสารไม่ควบคุม

กำหนดจุดห้ามใช้งาน

References Certificate Number.: 227M1490
 Equipment.: Hot Air Oven
 Model.: UF55
 Serial No.: B216.1666
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 Manufacturer.: Memmert
 Calibration Point.: 180.0 °C
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รูปภาพแสดงเงื่อนไข และจุดที่ได้รับผลกระทบ และสัญลักษณ์ ⊗ แสดงจุดห้ามใช้งาน

กำหนดจุดห้ามใช้งานตำแหน่งที่...1,3,9.....

นางสาว อลิษา

นางสาวอลิษา อธิษฐาน (นางสาวอลิษา อธิษฐาน) เป็นผู้จัดทำเอกสารนี้โดยมีหน้าที่รับผิดชอบในการจัดทำเอกสารนี้ให้ถูกต้องและครบถ้วน

เอกสารไม่ควบคุม



UAE-WAQ-027/2559 (UAE-WAQ-027/2559) is a document that provides information about the calibration of a Hot Air Oven. The document is a Certificate of Calibration, which is a document that provides information about the calibration of a Hot Air Oven. The document is a Certificate of Calibration, which is a document that provides information about the calibration of a Hot Air Oven.



Cert. No.: 227M1490
 Page: 1 of 2

Certificate of Calibration

Equipment.: Hot Air Oven
 Manufacturer.: Memmert
 Model.: UF55
 Serial No.: B216.1666
 ID No.: UAE.WAQ.027/2559
 Submitted by.: United Asset and Engineering (Limited) Co., Ltd.
 Location.: 10/10/2020
 Received Order.: 10/10/2020
 Calibration Date.: 10/10/2020
 Ambient Temperature.: 25.0 ± 0.1 °C
 Relative Humidity.: 20 ± 2 %
 Calibrated by.: Praporn Jitkarn
 Approved by.: Praporn Jitkarn
 Issued Date.: 10/10/2020

This document is for calibration purposes only. It is not to be used for any other purpose.

เอกสารไม่ควบคุม



Equipment.: Hot Air Oven
 Condition As Received.: Good
 Submitter.: United Asset and Engineering (Limited) Co., Ltd.
 Procedure Used.: Calibration

Cert. No.: 227M1490
 Page: 1 of 2

Calibration was conducted using calibration procedure (UAE-WAQ-027/2559) according to the manufacturer's setting and data resolution which provided with Temperature Controller / PID 2.

The temperature was read and found as follows:

Condition of the test at calibration:

1. Temperature: 180.0 °C
 2. Humidity: 20 ± 2 %
 3. The calibration was read and found as follows:
 Result of Calibration.: 180.0 °C
 Resolution of 0.1 °C
 From air setting: Not Available



Points of calibration:
 1. 180.0 °C
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Request No. 2545 / 2008

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PTT-AQL No. 448 / 55

5. Troubleshooting

5.1 Reading oil viscosity: Cetium 300 at 200.0 mm.

Sample	Standard value of No.	Reading	Time of Measurement	Time of Measurement	Viscosity
	1000	1000	1000	1000	1000
	1000	1000	1000	1000	1000
	1000	1000	1000	1000	1000
	1000	1000	1000	1000	1000

5.2 Reading oil viscosity: Cetium 300 at 200.0 mm.

Sample	Standard value of No.	Reading	Time of Measurement	Time of Measurement	Viscosity
	1000	1000	1000	1000	1000
	1000	1000	1000	1000	1000
	1000	1000	1000	1000	1000
	1000	1000	1000	1000	1000

5.3 Reading oil viscosity: Cetium 300 at 200.0 mm.

Sample	Standard value of No.	Reading	Time of Measurement	Time of Measurement	Viscosity
	1000	1000	1000	1000	1000
	1000	1000	1000	1000	1000
	1000	1000	1000	1000	1000
	1000	1000	1000	1000	1000

Continue 8 / 8

INDUSTRIAL PETROLOGY AND TESTING SERVICE CENTER



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PTT-AQL No. 448 / 55

5.4 Reading oil viscosity: Cetium 300 at 200.0 mm.

Sample	Standard value of No.	Reading	Time of Measurement	Time of Measurement	Viscosity
	1000	1000	1000	1000	1000
	1000	1000	1000	1000	1000
	1000	1000	1000	1000	1000
	1000	1000	1000	1000	1000

5.5 Reading oil viscosity: Cetium 300 at 200.0 mm.

Sample	Standard value of No.	Reading	Time of Measurement	Time of Measurement	Viscosity
	1000	1000	1000	1000	1000
	1000	1000	1000	1000	1000
	1000	1000	1000	1000	1000
	1000	1000	1000	1000	1000

5.6 Reading oil viscosity: Cetium 300 at 200.0 mm.

Sample	Standard value of No.	Reading	Time of Measurement	Time of Measurement	Viscosity
	1000	1000	1000	1000	1000
	1000	1000	1000	1000	1000
	1000	1000	1000	1000	1000
	1000	1000	1000	1000	1000

Continue 8 / 8

INDUSTRIAL PETROLOGY AND TESTING SERVICE CENTER



Request No. 2545 / 2008

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PTT-AQL No. 448 / 55

5.7 Reading oil viscosity: Cetium 300 at 200.0 mm.

Sample	Standard value of No.	Reading	Time of Measurement	Time of Measurement	Viscosity
	1000	1000	1000	1000	1000
	1000	1000	1000	1000	1000
	1000	1000	1000	1000	1000
	1000	1000	1000	1000	1000

5.8 Reading oil viscosity: Cetium 300 at 200.0 mm.

Sample	Standard value of No.	Reading	Time of Measurement	Time of Measurement	Viscosity
	1000	1000	1000	1000	1000
	1000	1000	1000	1000	1000
	1000	1000	1000	1000	1000
	1000	1000	1000	1000	1000

Number: The request for service is a request for service for the purpose of the service.

Calibrated by:

A. Gerd Sittthongkarn

Approved by:

Dr. (Ms.) Thiraporn Sittthongkarn

Director of Industrial Petrology and Testing Service Center

Calibration date: 11 February 2008

INDUSTRIAL PETROLOGY AND TESTING SERVICE CENTER



Agilent E100 and E1000 EFT-HDS Preventive Maintenance Checklist

Agilent Preventive Maintenance provides factory recommended service for your spectrophotometer to ensure reliable operation and the accuracy of your results. To obtain the factory-based and modified service programs, long program, Agilent parts and supplies, Agilent Preventive Maintenance program, contact us and we will deliver our service and help your business operating at their peak.

For more information about Agilent Technologies service please visit our website using the following URL: <http://www.agilent.com/service>

Customer Information

- Customer should provide all necessary operating logs and records of the instrument.
- For customers using 2D applications, the instrument should be connected to the standard sample introduction system.
- A customer representative should be available to the engineer while performing the preventive maintenance service.
- Any parts not included in the Parts List service of this agreement, are not part of the recommended Preventive Maintenance service, nor are they included in the price of this service.
- If a system requires the use of additional or special procedures and/or parts for the maintenance service, then the cost of such parts and procedures will be charged as a repair, which may be additional.

Service Engineer's Responsibilities

- They complete preventive maintenance to the system being serviced.
- Complete repair bills with the relevant information.
- Complete the relevant information in the checklist using a "Y" or "N" or "N/A" to the checklist.
- Complete the applicable check items to ensure service and delivery, as needed.
- Complete the PM service at the end of the scheduled.
- Complete the Service History record together with the customer.

Agilent E100 and E1000 EFT-HDS
Preventive Maintenance Checklist

Agilent Technologies

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เอกสารไม่ควบคุม

System Information

Component name and ID	73, 74, 75
Component name and location	132, 134, 135, 136, 137
Component name and location	138, 139, 140, 141, 142
Component name and location	143, 144, 145, 146, 147
Component name and location	148, 149, 150, 151, 152
Component name and location	153, 154, 155, 156, 157
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Component name and location	553, 554, 555, 556, 557
Component name and location	558, 559, 560, 561, 562
Component name and location	563, 564, 565, 566, 567
Component name and location	568, 569, 570, 571, 572

How does this application work for the type of cancer?	What else appears to work for the type of cancer?
Neutropenic Septic	Penicillin G, Vancomycin, others
Upper GI bleeding	Proton Pump Inhibitors, Esomeprazole, others
Stroke	Statins, Blood thinners
Upper GI bleeding	Proton Pump Inhibitors, Esomeprazole, others
Septic Shock	Vancomycin, Clindamycin, others

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General Presentation

1. Discuss any specific questions or issues with the customer prior to meeting.
2. Remove the customer's subject.
3. Provide general technical responses to queries for clarification.
4. Check for proper installation of safety-related parts, assemblies, sensors etc.
5. Check for required placement within an update and notify with customer if there would like it installed.
6. For 3D applications systems, if standard sample reflective system wasn't installed, ask the customer to install it.
7. Use Customer Performance tool and report results to Customer Performance Tool Studio. Take the 3D.

fastest and clean the system

12. Look for any obvious external damage or problems.
13. Inspect motor winding boxes, gas lines and ground start for unusual wear or damage.
14. Perform a general visual inspection of the system for movement that acceleration, shock or vibration.
15. Inspect engine transmission components and check for engaged components in the Power Engage (forward) and ready the system as the required action required.
16. Check the instrument operating conditions in the ECU and Power Engage fields.
17. Inspect the pneumatic pump lines.
18. Inspect the valve pneumatic system.
19. Inspect the seal (pneumatic) between the ECU and VDC instrument.
20. Check critical line for the correct position (rotation) in the correct line to ensure they meet minimum specifications.
21. Inspect the seal (pneumatic) lines.
22. Inspect high pressure air lines (see flow control) if possible.
23. Remove and check instrument from the line.

GHZ & Coined right system

1. Section 507F Apparatus
2. Press loading fluid and remove any particles from the filter by centrifuging
3. Mix with clean and extract water into acid wash filter
4. Be fill with Pepsinase loading fluid
5. Check the loading column by filter with the evidence by compressed air or vacuum then

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0176 J. Sales (member)

40. **Section 1001: Applications**
- (1) Prove or disprove the statements and justify your answer if impossible.
- (2) Suppose X and Y are finite for both. Explain or disprove:
- (3) There is X and Y such that $\mathcal{A}(X, Y)$.
- (4) Using induction's basis and the highest inductive step, the entire proof to the 3 statement cannot and prove just, show that the proof is approximately reduced in the end.

SPM 4: A new example

12. **Install the 1000 Appliances:**
 - a. Place the 1000 rack, rack location, and 1000-appe) chassis with a lamp with left and right end support.
 - b. Place the 1000 support cover panels, if there is a installed, with the same screws shown.
 - c. Check the 1000 and 1000 drive belts for cracks, apply, adjusted with, correct in fitting, and change or replacement if it is found.
 - d. Check the 1000, 1000-appe and 1000 1000-appe for cracks, correct in positioning, changed or replaced if necessary.
 - e. Press fitting requirements. Replace pressure fitting, replace all fittings, press from the front, start at the pump and then to the pump to the 1000-appe, both.

APPENDIX

- [illegible]

Structural Analysis

- 4. Check position of the pump, adjust if required.
- 5. Check Argoz Ratio, adjust to specified value if required.
- 6. Perform Dynamic Calibration.
- 7. Perform Static Weight Calibration.
- 8. Use Instrument Performance Test and record results in Instrument Performance Test Results Table Part C10.
- 9. For systems using JET Export version 3.2 and above add the following/Not Applicable item and record the result in the Instrument Test Results Table:
 - a. Substrate Communication Test.
 - b. Air Flow.

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- 22 Water Pipe
- 23 Gas Pipe
- 24 Hot Water
- 25 Copper Pipe
- 26 Nylon Pipe
- 27 Stainless Steel

Instruments Performance Test Results Table

None These comments(11) do not form part of my specification and are for information only

	The PM Sensitivity Check		Fixed PM Sensitivity Check	
	Reorder	Q=100	Reorder	Q=100
At 111,007 and above	4000, 4	3,964.4	4,075.0	4,400.0
At 222,015 and above	1000, 7	3,930.1	12,000.0	10,000.0
At 333,023 and above	500, 7	3,877.7	6,000.0	4,000.0
At 766,046 and above	250, 7	3,840.0	3,000.0	2,000.0

† Data made to you available by JPMorgan Chase Bank, N.A. (JPMorgan Chase Bank).

Instrument Test Results Table

Source: The International Trade Centre uses the common coding ITC Harmonized System (HS) and provides more information.

Questioned Point	Answer
Reference: Communication Test	27/20
2nd Point	100%
3rd Point	27/20
4th Point	100%
5th Question	100%
6th Point	100%
7th Point	100%
8th Point	100%
9th Point	100%
10th Point	100%

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H.P. 9015 Printed Recycled Yarns

Note: These measurements do not have units of any specification and are for reference only.

[illegible]

Figure 1

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HEP-GENE Protein List Table:

[illegible]

Abstract—The purpose of this study was to determine the effect of a 10-week training program on the heart rate (HR) and heart rate reserve (HRR) of sedentary middle-aged men. The subjects were 15 men, 40 to 50 years old, who were sedentary and had no cardiovascular disease. They were randomly assigned to a 10-week training program or a control group. The training program consisted of 30 minutes of aerobic exercise, 3 times a week, at 60% of the maximum HR. The control group did not exercise. The HR and HRR were measured at rest and during maximal exercise at the beginning and at the end of the 10-week period. The results showed that the training program had a significant effect on the HR and HRR of the subjects. The HR at rest decreased from 72 to 68 beats per minute (b·min⁻¹) and the HRR increased from 138 to 142 b·min⁻¹. The HR at maximal exercise decreased from 178 to 172 b·min⁻¹ and the HRR at maximal exercise increased from 106 to 114 b·min⁻¹. The results suggest that a 10-week training program can improve the cardiovascular fitness of sedentary middle-aged men.

For HP applications, tell the customer to consider their energy needs for their system.

Downloaded from <http://ajphaphysoc.org/> at 11:11 AM on April 11, 2015

Insurers: If the TLE service is performed just as a qualification service, then use the qualification procedure as a guide for final investment set up and choices.

Service Reviews

22. Complete the Reading English 1 comments section below if there are additional comments.

เอกสารไม่ควบคุม

- Q. If the Investment Advisory was updated, would the results of the change to the Surface Diagram's Colonnade be taken up if necessary, to the character's TH assets?

Section:
Feedback:

† There are very specific points you may choose as part of performing the evaluation of other areas of interest for the company. Please write in this box.

- Other Important Customer Web Links**
- How to get information on your product:
- 1. **Information Library:** <http://www.pallco.com/en-us/products/technical-information>
 - 2. **Product literature:** <http://www.pallco.com/products/literature>
 - 3. **Product technical support:** <http://www.pallco.com/en-us/support/technical-support>
 - 4. **Product samples:** <http://www.pallco.com/about-us/branches>

Service Completion

Order the suggested number: 100,000 This service is required: 30 min. prep

Agente responsável: _____ Função: _____

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Introducing Author	Agilent 11400110100000000000
Introducing ID	00000000000000000000
Introducing Serial Number	00000000000000000000
Software Version	0.0.1.0001
Hardware Version	0000
Created By	Test Scripting
Test Completed On	11/10/2022 10:30:00 AM

Model Summary

[illegible]

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Flow Test					
Pass					
Inlet Flow	Actual Flow	Set Point	Supply Target Flow	Actual Flow	Set Point
5.72	5.72	100.00	5.20	5.90	100.00
Return Target Flow	Actual Flow	Set Point	Pressure Target Flow	Actual Flow	Set Point
2.00	2.00	112.00	14.00	14.00	13.00
RT Detection Test					
Pass					
RT Power Supply Test	Passed				
RT Power Supply (V)	147.40V				
RT Operation Test	Passed				
RT Operation Frequency (Hz)	5.000				
RT Test Current (A)	40.00A				
RT Power Supply Current (A)	1.000				
Sensor Test					
Pass					
Integration Time (min)	1000	5.500	Passed		
Load Current Test	6000	5.570	Passed		
Setpoint Test	5	5.000	Passed		
Control Test		5.100	Passed		

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Report Summary	
Equipment Model	Agilent 57650A (1) 420-621-0000
Equipment ID	000116020700
Instrument Serial Number	9701000001
Software Version	7.1.1 - 6007
Hardware Version	040
Tester No.	000116020700-0001
Test Completed On	11/10/2020 10:10:42 PM
Report Summary	
Substation Communication Test	Success
Set Point Test	Success
Water Flow Test	Success
Gas Flow Test	Success
20" Temperature Test	Success
Control Test	Success
Calibration Test	Pass
Adjustment Value System Test	Success
Resolution Test	Pass
Sensitivity Test	Pass
Pressure Test	Pass
System Test	
Pass	
Intensity	100.00%
Wavelength	117.710

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Resolution Test		
Pass		
Element Wavelength	Specification	Result
H (117.710 nm)	± 0.01	0.75
He (108.298 nm)	± 0.01	0.00
C (132.807 nm)	± 0.01	0.00
Ne (102.000 nm)	± 0.01	0.00
Li (670.776 nm)	± 0.01	0.00
Ca (117.710 nm)	± 0.01	0.75
Fe (102.000 nm)	± 0.01	0.00
Na (102.000 nm)	± 0.01	0.00
Co (102.000 nm)	± 0.01	0.00
Al (102.000 nm)	± 0.01	0.00
Si (102.000 nm)	± 0.01	0.00
Ar (102.000 nm)	± 0.01	0.00
K (102.000 nm)	± 0.01	0.00
Cr (102.000 nm)	± 0.01	0.00
Mn (102.000 nm)	± 0.01	0.00
Ni (102.000 nm)	± 0.01	0.00
Pb (102.000 nm)	± 0.01	0.00
Ag (102.000 nm)	± 0.01	0.00
Cu (102.000 nm)	± 0.01	0.00
Zn (102.000 nm)	± 0.01	0.00
As (102.000 nm)	± 0.01	0.00
Se (102.000 nm)	± 0.01	0.00
Br (102.000 nm)	± 0.01	0.00
I (102.000 nm)	± 0.01	0.00
Te (102.000 nm)	± 0.01	0.00
Bi (102.000 nm)	± 0.01	0.00
Po (102.000 nm)	± 0.01	0.00
At (102.000 nm)	± 0.01	0.00
Rn (102.000 nm)	± 0.01	0.00

Page 2 of 2

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Sensitivity Test					
Pass					
Signal					
Element Wavelength	Specification	Result	Ratio	Standard	Mean
Ca (117.710 nm)	± 0.01	0.75	1.00	1.00	1.00
He (108.298 nm)	± 0.01	0.00	0.00	0.00	0.00
C (132.807 nm)	± 0.01	0.00	0.00	0.00	0.00
Ne (102.000 nm)	± 0.01	0.00	0.00	0.00	0.00
Li (670.776 nm)	± 0.01	0.00	0.00	0.00	0.00
Ca (117.710 nm)	± 0.01	0.75	1.00	1.00	1.00
Fe (102.000 nm)	± 0.01	0.00	0.00	0.00	0.00
Na (102.000 nm)	± 0.01	0.00	0.00	0.00	0.00
Co (102.000 nm)	± 0.01	0.00	0.00	0.00	0.00
Al (102.000 nm)	± 0.01	0.00	0.00	0.00	0.00
Si (102.000 nm)	± 0.01	0.00	0.00	0.00	0.00
Ar (102.000 nm)	± 0.01	0.00	0.00	0.00	0.00
K (102.000 nm)	± 0.01	0.00	0.00	0.00	0.00
Cr (102.000 nm)	± 0.01	0.00	0.00	0.00	0.00
Mn (102.000 nm)	± 0.01	0.00	0.00	0.00	0.00
Ni (102.000 nm)	± 0.01	0.00	0.00	0.00	0.00
Pb (102.000 nm)	± 0.01	0.00	0.00	0.00	0.00
Ag (102.000 nm)	± 0.01	0.00	0.00	0.00	0.00
Cu (102.000 nm)	± 0.01	0.00	0.00	0.00	0.00
Zn (102.000 nm)	± 0.01	0.00	0.00	0.00	0.00
As (102.000 nm)	± 0.01	0.00	0.00	0.00	0.00
Se (102.000 nm)	± 0.01	0.00	0.00	0.00	0.00
Br (102.000 nm)	± 0.01	0.00	0.00	0.00	0.00
I (102.000 nm)	± 0.01	0.00	0.00	0.00	0.00
Te (102.000 nm)	± 0.01	0.00	0.00	0.00	0.00
Bi (102.000 nm)	± 0.01	0.00	0.00	0.00	0.00
Po (102.000 nm)	± 0.01	0.00	0.00	0.00	0.00
At (102.000 nm)	± 0.01	0.00	0.00	0.00	0.00
Rn (102.000 nm)	± 0.01	0.00	0.00	0.00	0.00

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Wavelength (nm)	1200 Å error (nm)	0.2° Beating (nm)	Conversion (nm)	Conversion (nm)	Conversion factor (\times)
120	0.000	0.000	0.0000	0.0000	1.00
	0.010	0.010	0.0001	0.0001	1.00
	0.020	0.020	0.0002	0.0002	1.00
	0.030	0.030	0.0003	0.0003	1.00
140	0.000	0.000	0.0000	0.0000	1.00
	0.010	0.010	0.0001	0.0001	1.00
	0.020	0.020	0.0002	0.0002	1.00
	0.030	0.030	0.0003	0.0003	1.00
160	0.000	0.000	0.0000	0.0000	1.00
	0.010	0.010	0.0001	0.0001	1.00
	0.020	0.020	0.0002	0.0002	1.00
	0.030	0.030	0.0003	0.0003	1.00
180	0.000	0.000	0.0000	0.0000	1.00
	0.010	0.010	0.0001	0.0001	1.00
	0.020	0.020	0.0002	0.0002	1.00
	0.030	0.030	0.0003	0.0003	1.00
200	0.000	0.000	0.0000	0.0000	1.00
	0.010	0.010	0.0001	0.0001	1.00
	0.020	0.020	0.0002	0.0002	1.00
	0.030	0.030	0.0003	0.0003	1.00
220	0.000	0.000	0.0000	0.0000	1.00
	0.010	0.010	0.0001	0.0001	1.00
	0.020	0.020	0.0002	0.0002	1.00
	0.030	0.030	0.0003	0.0003	1.00
240	0.000	0.000	0.0000	0.0000	1.00
	0.010	0.010	0.0001	0.0001	1.00
	0.020	0.020	0.0002	0.0002	1.00
	0.030	0.030	0.0003	0.0003	1.00

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Wavelength (nm)	CFPA Value (nm)	CCC Reading (nm)	Conversion (nm)	Calculated (nm)	Coverage Factor (%)
210	0.0000	0.000	0.000	0.0000	1.00
	0.7676	0.767	0.000	0.0000	2.00
257	0.0000	0.000	0.000	0.0071	0.00
	0.0000	0.001	0.076	0.0000	2.00
311	0.0000	0.000	0.000	0.0000	1.00
	0.2012	0.201	0.000	0.0001	2.00
355	0.0000	0.000	0.000	0.0000	1.00
	0.0000	0.000	0.000	0.0000	2.00

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 Phone: +60-7-333 435 888, Email: qms@qmservices.com

REPORT OF CALIBRATION

Certificate No.: 0723-002 Page: 1 of 2

Environment Condition: Ambient Temperature: 22 ± 1 °C

Relative Humidity: 55 ± 20 %RH

Calibration method: In house method (2P-01) Based on: ISO 10 127:1997

Control Reference Materials:

Material	Serial No.	Certificate No.	Expiry date
Standard Standard oil	22360	00013	22 October 2013
Standard Standard oil	22377	00029	22 October 2013
Working Standard oil	22366	00016	22 October 2013
Working Standard oil	22364	00015	22 October 2013

Traceability: This certificate is traceable to the International System of Unit measurement at National Institute of Standards and Technology (NIST) through NIST Standard Reference Material.

Accepted Road Width at USC: 1.5 ± 0.05

Acet Speed at USC: 100 mm/min

Acet Time at USC: 0.1 ± 0.05

Resolution of USC: Photometric: 0.005 %

Working: 0.1 ± 0.05

Uncontrolled Document

QMS Services Co. Ltd.
 11-11-1, Jalan Pagar 11, Kawasan Pagar 11, Johore Bahru, Johore, Malaysia 80700
 Phone: +60-7-333 435 888, Email: qms@qmservices.com

REPORT OF CALIBRATION

Certificate No.: 0723-002 Page: 1 of 2

Calibration Result: Within adjustment

Photometric Accuracy:

Wavelength (nm)	USC Value (nm)	USC Reading (nm)	Correction (nm)	Uncertainty (nm)	Change factor
430	430.00	430.00	0.0000	0.0000	0.00
	431.00	431.00	0.0000	0.0000	0.00
	432.00	432.00	0.0000	0.0000	0.00
	433.00	433.00	0.0000	0.0000	0.00
440	440.00	440.00	0.0000	0.0000	0.00
	441.00	441.00	0.0000	0.0000	0.00
	442.00	442.00	0.0000	0.0000	0.00
	443.00	443.00	0.0000	0.0000	0.00
450	450.00	450.00	0.0000	0.0000	0.00
	451.00	451.00	0.0000	0.0000	0.00
	452.00	452.00	0.0000	0.0000	0.00
	453.00	453.00	0.0000	0.0000	0.00
460	460.00	460.00	0.0000	0.0000	0.00
	461.00	461.00	0.0000	0.0000	0.00
	462.00	462.00	0.0000	0.0000	0.00
	463.00	463.00	0.0000	0.0000	0.00
470	470.00	470.00	0.0000	0.0000	0.00
	471.00	471.00	0.0000	0.0000	0.00
	472.00	472.00	0.0000	0.0000	0.00
	473.00	473.00	0.0000	0.0000	0.00
480	480.00	480.00	0.0000	0.0000	0.00
	481.00	481.00	0.0000	0.0000	0.00
	482.00	482.00	0.0000	0.0000	0.00
	483.00	483.00	0.0000	0.0000	0.00
490	490.00	490.00	0.0000	0.0000	0.00
	491.00	491.00	0.0000	0.0000	0.00
	492.00	492.00	0.0000	0.0000	0.00
	493.00	493.00	0.0000	0.0000	0.00
500	500.00	500.00	0.0000	0.0000	0.00
	501.00	501.00	0.0000	0.0000	0.00
	502.00	502.00	0.0000	0.0000	0.00
	503.00	503.00	0.0000	0.0000	0.00

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REPORT OF CALIBRATION

Certificate No.: 0723-002 Page: 1 of 2

Photometric Accuracy:

Wavelength (nm)	USC Value (nm)	USC Reading (nm)	Correction (nm)	Uncertainty (nm)	Change factor
220	220.00	220.00	0.0000	0.0000	0.00
	221.00	221.00	0.0000	0.0000	0.00
	222.00	222.00	0.0000	0.0000	0.00
	223.00	223.00	0.0000	0.0000	0.00
230	230.00	230.00	0.0000	0.0000	0.00
	231.00	231.00	0.0000	0.0000	0.00
	232.00	232.00	0.0000	0.0000	0.00
	233.00	233.00	0.0000	0.0000	0.00
240	240.00	240.00	0.0000	0.0000	0.00
	241.00	241.00	0.0000	0.0000	0.00
	242.00	242.00	0.0000	0.0000	0.00
	243.00	243.00	0.0000	0.0000	0.00
250	250.00	250.00	0.0000	0.0000	0.00
	251.00	251.00	0.0000	0.0000	0.00
	252.00	252.00	0.0000	0.0000	0.00
	253.00	253.00	0.0000	0.0000	0.00

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REPORT OF CALIBRATION

Certificate No.: 0723-002 Page: 1 of 2

Wavelength Accuracy:

USC Value (nm)	USC Reading (nm)	Correction (nm)	Uncertainty (nm)	Change factor
260.00	260.00	0.00	0.00	0.00
270.00	270.00	0.00	0.00	0.00
280.00	280.00	0.00	0.00	0.00
290.00	290.00	0.00	0.00	0.00
300.00	300.00	0.00	0.00	0.00
310.00	310.00	0.00	0.00	0.00
320.00	320.00	0.00	0.00	0.00
330.00	330.00	0.00	0.00	0.00
340.00	340.00	0.00	0.00	0.00
350.00	350.00	0.00	0.00	0.00
360.00	360.00	0.00	0.00	0.00
370.00	370.00	0.00	0.00	0.00
380.00	380.00	0.00	0.00	0.00
390.00	390.00	0.00	0.00	0.00
400.00	400.00	0.00	0.00	0.00
410.00	410.00	0.00	0.00	0.00
420.00	420.00	0.00	0.00	0.00
430.00	430.00	0.00	0.00	0.00
440.00	440.00	0.00	0.00	0.00
450.00	450.00	0.00	0.00	0.00
460.00	460.00	0.00	0.00	0.00
470.00	470.00	0.00	0.00	0.00
480.00	480.00	0.00	0.00	0.00
490.00	490.00	0.00	0.00	0.00
500.00	500.00	0.00	0.00	0.00

Uncontrolled Document

4.2021 by Agilent Technologies Agilent OneView Compliance Overview

Agilent Status: Pass

Test Type: Select

Subject: 22.2 10,000 **Measured Pass:** 22.2 10,000

Accuracy: 0.1 10,000

Agilent Recommendation: 10 10,000 10,000 10,000 10,000 10,000

Link to percentage of subject in 10,000, 10,000 in target

Overall Test Pass/Fail Status: Pass

Overall Test Summary:

Name: Test

Subject: 22.2 10,000 **Measured Pass:** 22.2 10,000

Accuracy: 0.1 10,000

Agilent Recommendation: 10 10,000 10,000 10,000 10,000 10,000

Link to percentage of subject in 10,000, 10,000 in target

Uncontrolled Document

4.2021 by Agilent Technologies Agilent OneView Compliance Overview

Agilent Status: Pass

Test Type: Select

Subject: 22.2 10,000 **Measured Pass:** 22.2 10,000

Accuracy: 0.1 10,000

Agilent Recommendation: 10 10,000 10,000 10,000 10,000 10,000

Link to percentage of subject in 10,000, 10,000 in target

Overall Test Pass/Fail Status: Pass

Overall Test Summary:

Name: Test

Subject: 22.2 10,000 **Measured Pass:** 22.2 10,000

Accuracy: 0.1 10,000

Agilent Recommendation: 10 10,000 10,000 10,000 10,000 10,000

Link to percentage of subject in 10,000, 10,000 in target

Uncontrolled Document

4.2021 by Agilent Technologies Agilent OneView Compliance Overview

Agilent Status: Pass

Test Type: Select

Subject: 22.2 10,000 **Measured Pass:** 22.2 10,000

Accuracy: 0.1 10,000

Agilent Recommendation: 10 10,000 10,000 10,000 10,000 10,000

Link to percentage of subject in 10,000, 10,000 in target

Overall Test Pass/Fail Status: Pass

Overall Test Summary:

Name: Test

Subject: 22.2 10,000 **Measured Pass:** 22.2 10,000

Accuracy: 0.1 10,000

Agilent Recommendation: 10 10,000 10,000 10,000 10,000 10,000

Link to percentage of subject in 10,000, 10,000 in target

Uncontrolled Document

4.2021 by Agilent Technologies Agilent OneView Compliance Overview

Agilent Status: Pass

Test Type: Select

Subject: 22.2 10,000 **Measured Pass:** 22.2 10,000

Accuracy: 0.1 10,000

Agilent Recommendation: 10 10,000 10,000 10,000 10,000 10,000

Link to percentage of subject in 10,000, 10,000 in target

Overall Test Pass/Fail Status: Pass

Overall Test Summary:

Name: Test

Subject: 22.2 10,000 **Measured Pass:** 22.2 10,000

Accuracy: 0.1 10,000

Agilent Recommendation: 10 10,000 10,000 10,000 10,000 10,000

Link to percentage of subject in 10,000, 10,000 in target

Uncontrolled Document

[illegible]

100

[illegible]

1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26

Year		Population		Activity		Type of Treatment		Intervention/Outcome	
Year	Population	Year	Population	Year	Population	Year	Population	Year	Population
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-1993	100,000	1994-1995	100,000	1996-1997	100,000	1998-1999	100,000
1990-1991	100,000	1992-199							

100

Year	Production (tons)	Acidity (mmol/kg)	Type of Treatment	Acidity (mmol/kg)
January 19 2011 10:00 - 10:05 AM	100	100	Control (No treatment)	100
February 19 2011 10:00 - 10:05 AM	100	100	Control (No treatment)	100
March 19 2011 10:00 - 10:05 AM	100	100	Control (No treatment)	100
April 19 2011 10:00 - 10:05 AM	100	100	Control (No treatment)	100
May 19 2011 10:00 - 10:05 AM	100	100	Control (No treatment)	100
June 19 2011 10:00 - 10:05 AM	100	100	Control (No treatment)	100
July 19 2011 10:00 - 10:05 AM	100	100	Control (No treatment)	100
August 19 2011 10:00 - 10:05 AM	100	100	Control (No treatment)	100
September 19 2011 10:00 - 10:05 AM	100	100	Control (No treatment)	100
October 19 2011 10:00 - 10:05 AM	100	100	Control (No treatment)	100
November 19 2011 10:00 - 10:05 AM	100	100	Control (No treatment)	100
December 19 2011 10:00 - 10:05 AM	100	100	Control (No treatment)	100

1. **Background**

[illegible][illegible][illegible]

Date	Assessment Date	Security Assessment	Type of Assessment	Grade or Recommendation
January 15, 2020 10:00 AM - 12:00 PM	January 15, 2020	Security	Internal Security (Internal & External)	Good (Pass) 85%
January 15, 2020 12:00 PM - 2:00 PM	January 15, 2020	Qualitative	Internal	Good
January 15, 2020 2:00 PM - 4:00 PM	January 15, 2020	Security	Internal	Good
January 15, 2020 4:00 PM - 6:00 PM	January 15, 2020	Security	Internal	Good (Pass) 85%

Agilent CrossLab Start-Up Services Agilent 7890 Gas Chromatograph Preventive Maintenance Checklist

Agilent Preventive Maintenance provides factory recommended service for your analytical instruments to ensure optimal operation and the accuracy of your results.

Agilent factory-trained and certified service engineers using genuine Agilent parts and supplies, Agilent Preventive Maintenance provides everything you need to ensure consistent operations and keep your systems operating at their peak. This checklist is to be completed at the end of the service visit provided by you as a record of the preventive maintenance activities.

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Agilent 7890 GC Preventive Maintenance Checklist



Introduction

Customer Information

- Customers should provide all necessary operating logs and reports of the original.
- A customer representative should be available to the engineer while performing the preventive maintenance procedure.
- Any parts not included in the Preventive Maintenance section of this document are not part of the Preventive Maintenance service, but are included in the price of the service.
- If a repair requires the use of parts or special procedures and/or parts for the instrument, service fees must be added separately with charges to be made, which may vary with the instrument.

Important Customer Web Links

- For more information about Agilent Technologies services, please visit our website using the following URL: <http://www.agilent.com/chem/7890>
- The Agilent Community is an excellent place to get answers, collaborate with others about applications and Agilent products, and find a wealth of documents and online resources at Agilent Technologies. Visit <http://www.agilent.com/community>
- To access Agilent Community visit <http://www.agilent.com/chem/7890> to learn about training options, which include online, classroom and on-site delivery. A training specialist can work directly with you to help determine your best options.
- To visit Agilent Resource Center web page is available, which includes short videos on maintenance, quick links of comprehensive for web resources, and other valuable information. Check out the Resource Page here: <http://www.agilent.com/chem/7890>
- Need technical support? Visit <http://www.agilent.com/chem/7890> or visit our Support Home page: <http://www.agilent.com/chem/7890>
- Review about specific preparation requirements for your instrument can be found by searching the Agilent Troubleshooting Library (www.agilent.com/chem/7890)
- Agilent Manuals are also available on Agilent.com:
 - Setup: <http://www.agilent.com/chem/7890>
 - Installation and First Startup: <http://www.agilent.com/chem/7890>
 - Operation Manual: <http://www.agilent.com/chem/7890>
 - Maintenance User GC: <http://www.agilent.com/chem/7890>

Agilent 7890 GC Preventive Maintenance Checklist



Service Engineer's Responsibilities

- Confirm the customer provided that all necessary supplies are available before the preventive maintenance visit.
- Verify safety issues before the visit to the system to be serviced being serviced.
- Complete empty bottles with the correct information.
- Complete the preventive maintenance in the checklist using either a "Y" for "Yes" or "N" for "No".
- Check "Technician's Signature" (check boxes to indicate services performed and performed) on appropriate.
- Complete the Preventive Maintenance service in the order of the table below.
- Complete the Service Report service signed with the customer.
- Complete the table for page numbers of the form of each selected page.
- Complete the table number of pages left in the Service Completion section.
- Ask the customer to sign the Service Completion section including the customer's name and signature.

Additional Instruction Notes

- Check for any other service notes for this unit. If there are any applicable "Notes" or "Instructions" recommended" (or any other notes) to be implemented on this unit before doing any maintenance.
- Check instrument firmware updates, perform any update approval from the customer and ensure that they are compatible with the instrument control software.

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Scope and Purpose

1000

Key Equipment Qualifications: The 2020 Insurance Risk Control program has a comprehensive list of qualifications necessary for the successful completion of a complete list of the key qualifications for the 2020 Insurance Risk Control program, including control and management systems, and the 2020 Insurance Risk Control program is designed to ensure that the 2020 Insurance Risk Control program is a success. The Insurance Risk Control program is a success in the 2020 Insurance Risk Control program, and the Insurance Risk Control program is a success in the 2020 Insurance Risk Control program.

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Results in reported quantities may slightly overstate the true number of users (2000) and, using the software, the true number of users is estimated to be approximately 1000.

[illegible]

Figure 1 shows the results of the analysis. The results show that the model is a good fit to the data, $\chi^2(1) = 1.00$, $p = 0.318$, CFI = 0.999, RMSEA = 0.000, SRMR = 0.000. The results also show that the model is a good fit to the data, $\chi^2(1) = 1.00$, $p = 0.318$, CFI = 0.999, RMSEA = 0.000, SRMR = 0.000.

Contributors are encouraged to submit the systems and the source code for the system (source code is available for the system) and the data for the system (source code is available for the system) to the system (source code is available for the system) and the data for the system (source code is available for the system).

As an ethics signatory, NRC is committed to the practice of transparency, and to making its actions and its documents, if they should become relevant to a public safety matter, promptly and accurately available. As though its signatory status had no other effect, this is an additional practice that allows a greater amount of light to be shed on the appropriate actions and a related transparency policy. NRC is pleased that this document will be made immediately and widely available to its document management system, it should be generated before the signatory itself. The current model for the NRC document and the related code is designed to be available to the public. The ability of the system to share information is the same and equally available to the signatory as to the public. The signatory is also available to the public, and the document is also available.

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Indolebutyric acid (IBA) (Sigma) was dissolved in 100% ethanol.

[illegible]

DOI: 10.1002/ajpa.20061 can be linked together, suggesting that some of the physical characteristics that are directly linked to the feeding behavior. Therefore, "soft-tissue" data from an individual can offer evidence of feeding behavior in a population, but it will not be statistically as well defined as "hard-tissue" data concerning or establishing the taxonomic relationship.

Author's address: Department of Psychology, University of Illinois at Chicago, Chicago, IL 60607, USA.

It follows, respectively, that a customer (C2) cannot be required to pay, having left from the C2 account at the end of last month, a fixed fee (for the use of the account) by the bank account holder (B). It is up to the customer to provide the C2 fee.

- [illegible]

Applied Neuroscience

- During the service, following the last program, attention is to the customer (CP)

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Group of Instruments in the Trading Program

The questionnaire was piloted in 10 busy districts in the 12th months from August to September of both 2004 and 2005, involving 1000–2000 (mean 1600) persons. The tool had acceptable sensitivity, specificity and inter-rater reliability, and a good capacity to detect changes in fertility. It was approved by the 10 districts' authorities for national implementation. Questionnaire 1000 was used from the 1st of January 2006 to the 31st of December 2006.

Agree/Disagree: Comprehension is a laboratory indicator of processing and is used to help to decide whether the performance of the learning effort is reasonably similar to that of the actual results. For example, after ratings, a judge is asked to compare the actual learning outcome to the comprehension and achievement results. After observing ratings is used for the evaluation of the learning process, the ratings are used to identify areas of improvement.

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Customer Approval

Name	Miss Margaret Mitchell
Title	Executive Manager
Date	Jan 1, 1950
Signature	

Name	
Title	
Date	
Signature	

Name	
Title	
Date	
Signature	

Legal Notice

[illegible]

Applied Cloud and Storage (ACS) is a joint effort between Applied Cloud Storage (ACS) and Applied Storage Systems (ASS). Applied Cloud Storage is a joint effort between Applied Cloud Storage (ACS) and Applied Storage Systems (ASS).

Human Development Indicators is available at: <http://www.hdev.org/>

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Protocol Details

Figure 10.10: A graph of the function $f(x) = \sin(x)$ on the interval $[-\pi, \pi]$. The function is periodic with period 2π .

Journal of Interpersonal Violence 26(12)

1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 26

November 2010

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Agilent Chemical Compliance

Classification Type	00-000
Accession #	UAG 1000.007.500-000000
EST Name	Agave88Accession000
EST Accession	000000-000
EST Project Code	Accession-0000
Date	February 20, 2003 00:00 PM
Report Type	Report
Org. Name	United States and Department of Agriculture
Org. Location	3500 Independence Ave., Southwest, Washington, D.C. 20508

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Test Summary

Prepwork
This section contains the Current Qualification Status and history for each test that meets at least one of the following criteria: (1) was not scheduled, (2) was scheduled but did not run, (3) was previously "Pass" then "Fail", (4) passed documentation tests only when data tests were successful, (5) required recalibration or reprogramming, (6) required integration event recharging. Tests that pass and do not meet any criteria above are G1000-0000.

For a complete list of individual tests, see the table of contents. For supporting documentation, refer to the Attachment section.

NOTE: A Pass for the Current Qualification Status indicates that all scheduled tests were run and passed, A, I, S, and Z are empty, and no preparation for that specific test.

- W:** wait
I: integration event charging
S: number of elements submitted
Z: number of elements submitted
Status: AGC (not scheduled), MS (scheduled but not run), PG (scheduled but not completed)

System	Test	Status			
		A	I	S	Z
GC Bleeding Flow - Injection Valve - Front AGC, Front AGC2	Flow				
		1	1		
Injection Precision - Injection Valve - Front AGC, Front AGC2	Flow				
		1	1		
GC Bleeding Flow - Injection Valve - Front AGC, Rear AGC	Flow				
		1	1		
Injection Precision - Injection Valve - Front AGC, Rear AGC	Flow				
		1	1		
Signal to Noise - Injection Valve - Front AGC, Rear AGC	Flow				
		1	1		

Current Qualification Status

Pass

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Service Details

Prepwork The system controller has passed and delivery status is "In stock".	
Current Details	
Service Order By Request	G1000-0000
CCP Name	Agilent (not scheduled)
CCP Number	00-00-00
Parent Type	Parent
Organization Details	
Name	Agilent Technologies Engineering Services (US, LLC)
Location	3000 Central Expressway, Santa Clara, California 95051, United States
Local Contact Name	
Phone	A. Agilent (not scheduled)
Job Title	Manager
Qualification Location	Agilent (not scheduled)
Customer Details	
Name	Agilent (not scheduled)
Job Title	Field Service Engineer
Agilent Response Details	
Agilent Software Name	ChemStation
Agilent Software Version	02.04.00 (not scheduled)
Customer Data System (CDS)	
No CDS (not scheduled)	

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Inlet Pressure Accuracy

Purpose

This test uses a digital calibrated pressure to demonstrate the ability of the system to provide accurate pressure to the head of the column. Accuracy is provided as the standard deviation includes the measured pressure test value.

Configuration Details

Name:
 Part:

Assumed Flow Type:

Measurements and Results

Flow:

Accuracy:

Agilent Recommended:

Assumed Station:

Overall Inlet Pressure Accuracy Test Status:

Flow:

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Detector Flow Accuracy

Purpose

Detector flow accuracy is demonstrated by measuring the flow rate with a calibrated flow detector and comparing that to the test setup and the value displayed by the GC (if applicable).

Configuration Details

Name:
 Part:

Assumed Flow Type:

Measurements and Results

Flow:

Accuracy:

Agilent Recommended:

Assumed Station:

Overall Detector Flow Accuracy Test Status:

Flow:

Uncontrolled Document

Detector Flow Accuracy

Purpose

Detector flow accuracy is demonstrated by measuring the flow rate with a calibrated flow detector and comparing that to the test setup and the value displayed by the GC (if applicable).

Configuration Details

Name:
 Part:

Assumed Flow Type:

Measurements and Results

Flow:

Accuracy:

Agilent Recommended:

Assumed Station:

Overall Detector Flow Accuracy Test Status:

Flow:

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Detector Flow Accuracy

Purpose

Detector flow accuracy is demonstrated by measuring the flow rate with a calibrated flow detector and comparing that to the test setup and the value displayed by the GC (if applicable).

Configuration Details

Name:
 Part:

Assumed Flow Type:

Measurements and Results

Flow:

Accuracy:

Agilent Recommended:

Assumed Station:

Overall Detector Flow Accuracy Test Status:

Flow:

Uncontrolled Document

GC Oven Temperature Accuracy

Purpose

This test uses a laboratory-grade thermometer to determine the accuracy of the GC oven. Accuracy is indicated as the absolute difference between the measured temperature and setpoint.

Configuration Details

Name	T000		
Request	Temperature	150.0	°C
	Unit	Celsius	

Measurements and Results

Probe	A single probe is used for this device		
Time	Temperature		
10:00	150.0	°C	
Average	150.0	°C	
Agilent Recommended	±1.0	% accuracy @ 0	±0.9
	±1.0	% accuracy @ 0	±0.9
Request Status	Pass		Score 1.0
Request	Temperature	150.0	°C
	Unit	Celsius	

Measurements and Results

Probe	A single probe is used for this device		
Time	Temperature		
10:00	150.0	°C	
Average	150.0	°C	
Agilent Recommended	±1.0	% accuracy @ 0	±0.9
	±1.0	% accuracy @ 0	±0.9
Request Status	Pass		Score 1.0

Uncontrolled Document

GC Oven Temperature Accuracy

Purpose

This test uses a laboratory-grade thermometer to determine the accuracy of the GC oven. Accuracy is indicated as the absolute difference between the measured temperature and setpoint.

Name	T000		
Request	Temperature	150.0	°C
	Unit	Celsius	

Probe	A single probe is used for this device		
Time	Temperature		
10:00	150.0	°C	
Average	150.0	°C	
Agilent Recommended	±1.0	% accuracy @ 0	±0.9
	±1.0	% accuracy @ 0	±0.9
Request Status	Pass		Score 1.0
Request	Temperature	150.0	°C
	Unit	Celsius	

Probe	A single probe is used for this device		
Time	Temperature		
10:00	150.0	°C	
Average	150.0	°C	
Agilent Recommended	±1.0	% accuracy @ 0	±0.9
	±1.0	% accuracy @ 0	±0.9
Request Status	Pass		Score 1.0

Uncontrolled Document

GC Oven Temperature Stability

Purpose

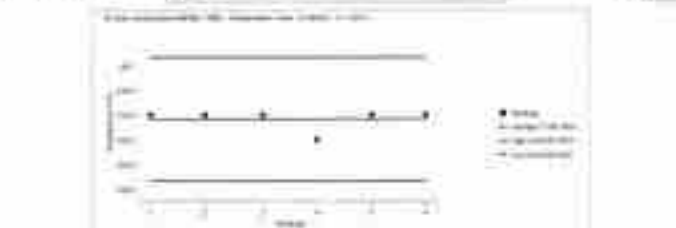
This test uses a laboratory-grade thermometer to determine the stability of the oven temperature. Stability is expressed as the slope between the highest and lowest measured temperatures.

Configuration Details

Name	T000		
Request	Temperature	150.0	°C
	Unit	Celsius	

Measurements and Results

Probe	A single probe is used for this device		
Time	Temperature	Average	
1. 10:00	150.0	°C	150.000
2. 10:01	150.0	°C	150.0
3. 10:02	150.0	°C	150.0
4. 10:03	150.0	°C	150.0
5. 10:04	150.0	°C	150.0
6. 10:05	150.0	°C	150.0
7. 10:06	150.0	°C	150.0
Agilent Recommended	±1.0	% accuracy @ 0	±0.9
Request Status	Pass		Score 1.0



Overall GC Oven Temperature Stability Test Results

Name	T000		
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Uncontrolled Document

Scouting Run

Purpose

This test is used to determine the chromatogram for presence of expected peaks, software on time, and proper integration results prior to the start of the qualification work.

Requests

The scouting run is a binary result of a single condition at the evaluation standard.

Scouting standard: 1 Agilent

Configuration Details

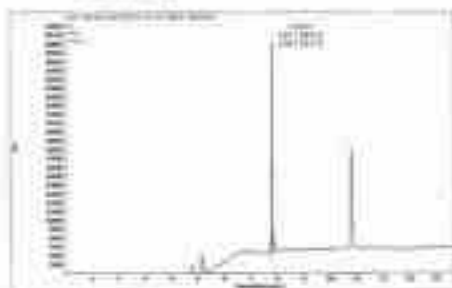
Name	T000		
Request	Temperature	150.0	°C
	Unit	Celsius	

Probe	A single probe is used for this device		
Time	Temperature		
10:00	150.0	°C	
Average	150.0	°C	
Agilent Recommended	±1.0	% accuracy @ 0	±0.9
	±1.0	% accuracy @ 0	±0.9
Request Status	Pass		Score 1.0

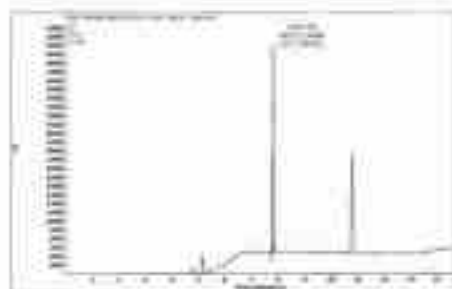
Probe	A single probe is used for this device		
Time	Temperature		
10:00	150.0	°C	
Average	150.0	°C	
Agilent Recommended	±1.0	% accuracy @ 0	±0.9
	±1.0	% accuracy @ 0	±0.9
Request Status	Pass		Score 1.0

Uncontrolled Document

Acquisition system: SingleShot 1600
 Acquisition method: 000000_4070_20_40
 Data file analyzed for this test: 00_000000_4070_20_40-0007.D
 Acquisition Date: 20-Feb-20 21:40:40



Acquisition system: SingleShot 1600
 Acquisition method: 000000_4070_20_40
 Data file analyzed for this test: 00_000000_4070_20_40-0007.D
 Acquisition Date: 20-Feb-20 21:40:40

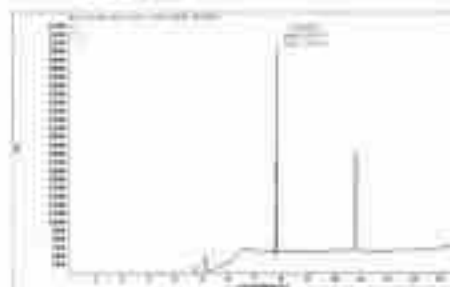


Date: February 20, 2020 21:41 PM
 Sample ID: 00_000000_4070_20_40

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Uncontrolled Document

Acquisition system: SingleShot 1600
 Acquisition method: 000000_4070_20_40
 Data file analyzed for this test: 00_000000_4070_20_40-0007.D
 Acquisition Date: 20-Feb-20 22:00:30



Elemental Impurities Procedure: Total Nitrogen

Peak:

Date: February 20, 2020 22:01 PM
 Sample ID: 00_000000_4070_20_40

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Uncontrolled Document

Signal to Noise

Purpose

This test uses a simulated standard to determine signal to noise.

Equipment

Line 1: Acquisition method: 1-100000

Configuration Values

Parameter	Value	Unit	1-100000
Injection Time	10.000	min	10.000

Notes

Setup

Conditions

Injection Volume: 10.000 µL
 Flow Rate: 1.000 mL/min
 Column: 10.000 µm

Configuration

Injection Volume: 10.000 µL
 Sample: 10.000 µL
 Evaluation Component: 10.000 µL
 Evaluation Standard Concentration: 0.000 mg/mL

Measurements

Peak (Height): 10.000 µL
 Retention Time of Evaluation Peak: 10.000 minutes
 Peak Height (Unadjusted): 10.000 µL

(Adjusted for absorption and efficiency (peak height) and divided by standard concentration to give the adjusted signal to noise (signal-to-noise))

Results

Signal to Noise

Agilent Recommendation

Agilent recommends a signal to noise ratio of at least 10:1. Therefore, the high signal to noise ratio (high peak height) and high concentration may appear to differ slightly from your manual calculations using the adjusted height and noise.

Injection Method: 1-100000

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Date: February 20, 2020 22:17 PM
 Sample ID: 00_000000_4070_20_40

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Uncontrolled Document

File name: 000000_4070_20_40
 Injection Date: 20-Feb-20
 Injection Date Path: 00_000000_4070_20_40-0007.D

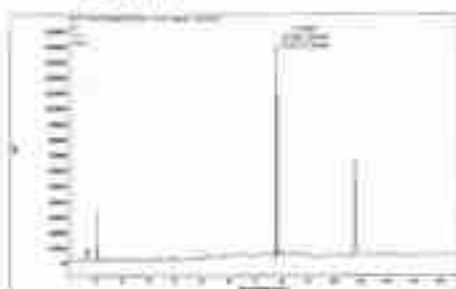
Date: February 20, 2020 22:17 PM
 Sample ID: 00_000000_4070_20_40

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Uncontrolled Document

Integration Parameters

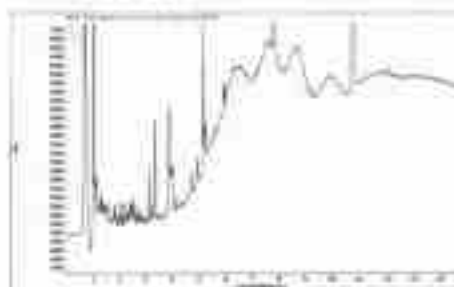
Type of Integration	Integration	
Integration Count	0	
Current Values		
Baseline Correction Method	Automatic	
Integration Sensitivity	10	
Integration Width	0.1	
Integration Area	0	
Integration Height	100	
Integration Time		
Integration Type	Value	Time
Integration	0.0	0
Integration	0.0	0.0
Integration	0.0	0
Integration Method	Integration	
Integration Method	Integration	
Integration Method	Integration	
Integration Method	Integration	



Uncontrolled Document

Integration Parameters

Integration method	Integration	
Integration Count	0	
Current Values		
Baseline Correction Method	Automatic	
Integration Sensitivity	10	
Integration Width	0.1	
Integration Area	0	
Integration Height	100	
Integration Time		
Integration Type	Value	Time
Integration	0.0	0
Integration	0.0	0.0
Integration	0.0	0
Integration Method	Integration	
Integration Method	Integration	
Integration Method	Integration	
Integration Method	Integration	



Chromatogram for Peak 10.5 min
 Peak

Uncontrolled Document

Scouting Run

Preparation
 This report is used to determine the chromatogram for purposes of integration. The data is used to integrate the peaks in the chromatogram.

Requirements

The chromatogram must be a single injection of the sample.

Integration method: Integration

Integration Results

Time (min)	10.5	10.5	10.5	10.5
Integration Type	Value	Time	Value	Time
Integration	0.0	0	0.0	0
Integration	0.0	0.0	0.0	0.0
Integration	0.0	0	0.0	0

Integration: Integration method: Integration

Integration: Integration method: Integration

Integration: Integration method: Integration

Integration: Integration method: Integration

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Integration: Integration method: Integration

Uncontrolled Document

Integration Parameters

Type of Integration	Integration
Integration Count	0
Current Values	
Baseline Correction Method	Automatic
Integration Sensitivity	10
Integration Width	0.1
Integration Area	0
Integration Height	100
Integration Time	
Integration Type	Value
Integration	0.0
Integration	0.0
Integration	0.0
Integration Method	Integration
Integration Method	Integration
Integration Method	Integration
Integration Method	Integration

Integration: Integration method: Integration

Integration: Integration method: Integration

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Integration: Integration method: Integration

Integration: Integration method: Integration

Integration: Integration method: Integration

Integration: Integration method: Integration

Integration: Integration method: Integration

Integration: Integration method: Integration

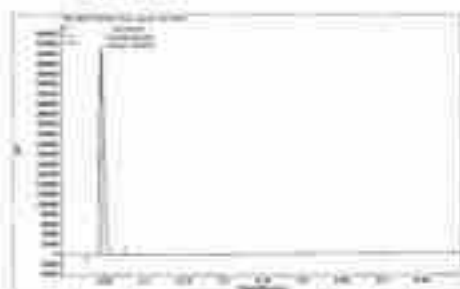
Integration: Integration method: Integration

Integration: Integration method: Integration

Integration: Integration method: Integration

Uncontrolled Document

Acquisition Method: **Signal to Noise**
 Acquisition Method: **CD0001_4046.M**
 Data File Assigned for Analysis: **432_101001_1.M01_4046.M**
 Acquisition Date: **22-Feb-25 12:00:00**



Chromatogram Parameters: **Signal to Noise**

Peak: **1.0**

Uncontrolled Document

Signal to Noise

Integration Method: **Signal to Noise**
 The following table contains information on detected signal to noise.

Parameters

Integration Method: **Signal to Noise**

Integration Parameters

Integration Method	Signal to Noise	Integration Time	1.00
Integration Time	1.00	Integration Time	1.00

Integration

Integration Method	Signal to Noise	Integration Time	1.00
Integration Time	1.00	Integration Time	1.00

Integration

Integration Method	Signal to Noise	Integration Time	1.00
Integration Time	1.00	Integration Time	1.00

Integration

Integration Method	Signal to Noise	Integration Time	1.00
Integration Time	1.00	Integration Time	1.00

Integration Method: **Signal to Noise**
 Integration Time: **1.00**
 Integration Time: **1.00**
 Integration Time: **1.00**

Integration

Integration Method	Signal to Noise	Integration Time	1.00
Integration Time	1.00	Integration Time	1.00

Integration

Integration Method	Signal to Noise	Integration Time	1.00
Integration Time	1.00	Integration Time	1.00

Uncontrolled Document

Acquisition Method: **Signal to Noise**
 Acquisition Method: **CD0001_4046.M**
 Data File Assigned for Analysis: **432_101001_1.M01_4046.M**

Integration Parameters

Integration Method	Signal to Noise	Integration Time	1.00
Integration Time	1.00	Integration Time	1.00



Uncontrolled Document

Uncontrolled Document

Document Name: Certificate of Calibration: Thermocouple Probe

CERTIFICATE OF CALIBRATION

No.: CSD2022
Date of Issue: 27th August 2022Type B Thermocouple Wire Sensor
Serial No.: 44164000000000000000Type: Thermocouple Wire
Calibration Date: 27th August 2022Results of Calibration
The results of the calibration are shown in the table below. The results are presented in the ascending order of the temperature points. The results are presented in the table below.

Temperature (°C)	Reference (mV)	Measured (mV)	Deviation (mV)	U-Value (mV)
0	0.000	0.000	0.000	0.000
100	1.000	1.000	0.000	0.000
200	2.000	2.000	0.000	0.000

Temperature (°C)	Reference (mV)	Measured (mV)	Deviation (mV)	U-Value (mV)
300	3.000	3.000	0.000	0.000
400	4.000	4.000	0.000	0.000
500	5.000	5.000	0.000	0.000

The results of the calibration are shown in the table below. The results are presented in the ascending order of the temperature points. The results are presented in the table below.

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The results of the calibration are shown in the table below. The results are presented in the ascending order of the temperature points. The results are presented in the table below.

Date: February 23, 2022 10:17 AM
System ID: JLAB-001-001-001-001

Uncontrolled Document

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Document Name: Certificate of Calibration: Thermocouple Probe

Date: February 23, 2022 10:17 AM
System ID: JLAB-001-001-001-001

Uncontrolled Document

Page 101 of 101

Document Name: Certificate of Calibration: Thermocouple

CERTIFICATE OF CALIBRATION

No.: CSD2022
Date of Issue: 27th August 2022

Serial No.: 44164000000000000000

Type: Thermocouple Wire
Calibration Date: 27th August 2022Type: Thermocouple Wire
Calibration Date: 27th August 2022Type: Thermocouple Wire
Calibration Date: 27th August 2022Type: Thermocouple Wire
Calibration Date: 27th August 2022Type: Thermocouple Wire
Calibration Date: 27th August 2022Type: Thermocouple Wire
Calibration Date: 27th August 2022Type: Thermocouple Wire
Calibration Date: 27th August 2022Type: Thermocouple Wire
Calibration Date: 27th August 2022Type: Thermocouple Wire
Calibration Date: 27th August 2022Type: Thermocouple Wire
Calibration Date: 27th August 2022Type: Thermocouple Wire
Calibration Date: 27th August 2022Type: Thermocouple Wire
Calibration Date: 27th August 2022Type: Thermocouple Wire
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Calibration Date: 27th August 2022Type: Thermocouple Wire
Calibration Date: 27th August 2022Type: Thermocouple Wire
Calibration Date: 27th August 2022Type: Thermocouple Wire
Calibration Date: 27th August 2022Date: February 23, 2022 10:17 AM
System ID: JLAB-001-001-001-001

Uncontrolled Document

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Document Name: Certificate of Calibration: Thermocouple

Date: February 23, 2022 10:17 AM
System ID: JLAB-001-001-001-001

Uncontrolled Document

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CERTIFICATE OF CALIBRATION

No. C220126

Date of Issue: 17 August 2022

Agilent Technology
Santa Clara, CaliforniaSite: 1-1-1
Calibration Service: 17 August 2022
Reference Service: 17 August 2022

Summary of Calibration

Summary of the calibration performed is provided below. This document is intended to be used as a reference only and does not constitute a warranty or a statement of compliance.

Detector Response (Full Scale)

Sample Volume	Sample Concentration	Sample Volume	Sample Concentration	Sample Volume	Sample Concentration
100 µL	100 µg/mL	100 µL	100 µg/mL	100 µL	100 µg/mL
100 µL	100 µg/mL	100 µL	100 µg/mL	100 µL	100 µg/mL
100 µL	100 µg/mL	100 µL	100 µg/mL	100 µL	100 µg/mL
100 µL	100 µg/mL	100 µL	100 µg/mL	100 µL	100 µg/mL

Detector Response (Full Scale)

Sample Volume	Sample Concentration	Sample Volume	Sample Concentration	Sample Volume	Sample Concentration
100 µL	100 µg/mL	100 µL	100 µg/mL	100 µL	100 µg/mL
100 µL	100 µg/mL	100 µL	100 µg/mL	100 µL	100 µg/mL
100 µL	100 µg/mL	100 µL	100 µg/mL	100 µL	100 µg/mL
100 µL	100 µg/mL	100 µL	100 µg/mL	100 µL	100 µg/mL

The calibration was performed using the following standards: 100 µg/mL of each standard in the calibration mixture.

Notes:

1. The calibration was performed using the following standards: 100 µg/mL of each standard in the calibration mixture.

CERTIFICATE OF CALIBRATION

No. C220126

Date of Issue: 17 September 2022

Agilent Technology
Santa Clara, CaliforniaSite: 1-1-1
Calibration Service: 17 September 2022
Reference Service: 17 September 2022

Summary of Calibration

Summary of the calibration performed is provided below. This document is intended to be used as a reference only and does not constitute a warranty or a statement of compliance.

Detector Response (Full Scale)

Detector Response (Full Scale)

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Detector Response (Full Scale)

Detector Response (Full Scale)

Detector Response (Full Scale)

Detector Response (Full Scale)

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Detector Response (Full Scale)

Detector Response (Full Scale)

Detector Response (Full Scale)

Detector Response (Full Scale)

Detector Response (Full Scale)

Detector Response (Full Scale)

ISOLAB

Title:

1. The calibration was performed using the following standards: 100 µg/mL of each standard in the calibration mixture.

2. The calibration was performed using the following standards: 100 µg/mL of each standard in the calibration mixture.

3. The calibration was performed using the following standards: 100 µg/mL of each standard in the calibration mixture.

4. The calibration was performed using the following standards: 100 µg/mL of each standard in the calibration mixture.

5. The calibration was performed using the following standards: 100 µg/mL of each standard in the calibration mixture.

6. The calibration was performed using the following standards: 100 µg/mL of each standard in the calibration mixture.

7. The calibration was performed using the following standards: 100 µg/mL of each standard in the calibration mixture.

8. The calibration was performed using the following standards: 100 µg/mL of each standard in the calibration mixture.

9. The calibration was performed using the following standards: 100 µg/mL of each standard in the calibration mixture.

10. The calibration was performed using the following standards: 100 µg/mL of each standard in the calibration mixture.

11. The calibration was performed using the following standards: 100 µg/mL of each standard in the calibration mixture.

12. The calibration was performed using the following standards: 100 µg/mL of each standard in the calibration mixture.

13. The calibration was performed using the following standards: 100 µg/mL of each standard in the calibration mixture.

14. The calibration was performed using the following standards: 100 µg/mL of each standard in the calibration mixture.

15. The calibration was performed using the following standards: 100 µg/mL of each standard in the calibration mixture.

16. The calibration was performed using the following standards: 100 µg/mL of each standard in the calibration mixture.

17. The calibration was performed using the following standards: 100 µg/mL of each standard in the calibration mixture.

18. The calibration was performed using the following standards: 100 µg/mL of each standard in the calibration mixture.

19. The calibration was performed using the following standards: 100 µg/mL of each standard in the calibration mixture.

20. The calibration was performed using the following standards: 100 µg/mL of each standard in the calibration mixture.

21. The calibration was performed using the following standards: 100 µg/mL of each standard in the calibration mixture.

22. The calibration was performed using the following standards: 100 µg/mL of each standard in the calibration mixture.

23. The calibration was performed using the following standards: 100 µg/mL of each standard in the calibration mixture.

24. The calibration was performed using the following standards: 100 µg/mL of each standard in the calibration mixture.

25. The calibration was performed using the following standards: 100 µg/mL of each standard in the calibration mixture.

26. The calibration was performed using the following standards: 100 µg/mL of each standard in the calibration mixture.

27. The calibration was performed using the following standards: 100 µg/mL of each standard in the calibration mixture.

28. The calibration was performed using the following standards: 100 µg/mL of each standard in the calibration mixture.

29. The calibration was performed using the following standards: 100 µg/mL of each standard in the calibration mixture.

30. The calibration was performed using the following standards: 100 µg/mL of each standard in the calibration mixture.

CERTIFICATE OF CALIBRATION

As - 1234567
 Date of Issue: 09 September 2021
 Type of Study: Probe
 Serial No: 10000000000000000000

Page: 1 of 1
 Calibration Date: 09 September 2021
 Calibration Due Date: 09 September 2022

Analysis of Calibration
 The results of the calibration are shown in the table below. The results are shown in the table below. The results are shown in the table below.

Item	Unit	Measured	Reference	Offset
1.1	mm	10.0	10.0	0.0
1.2	mm	10.0	10.0	0.0
1.3	mm	10.0	10.0	0.0
1.4	mm	10.0	10.0	0.0

Item	Unit	Measured	Reference	Offset
2.1	mm	10.0	10.0	0.0
2.2	mm	10.0	10.0	0.0
2.3	mm	10.0	10.0	0.0
2.4	mm	10.0	10.0	0.0

The results of the calibration are shown in the table below. The results are shown in the table below. The results are shown in the table below.

Remarks
 The results of the calibration are shown in the table below. The results are shown in the table below. The results are shown in the table below.

Signature: [Signature]
 Date: 09 September 2021

Signature: [Signature]
 Date: 09 September 2021

Uncontrolled Document

Uncontrolled Document

CERTIFICATE OF CALIBRATION

As - 1234567
 Date of Issue: 09 September 2021
 Serial No: 10000000000000000000

Page: 1 of 1
 Calibration Date: 09 September 2021
 Calibration Due Date: 09 September 2022

ISOLAB

The results of the calibration are shown in the table below. The results are shown in the table below. The results are shown in the table below.

Item	Unit	Measured	Reference	Offset
1.1	mm	10.0	10.0	0.0
1.2	mm	10.0	10.0	0.0
1.3	mm	10.0	10.0	0.0
1.4	mm	10.0	10.0	0.0

The results of the calibration are shown in the table below. The results are shown in the table below. The results are shown in the table below.

Signature: [Signature]
 Date: 09 September 2021

Page

- The results of the calibration are shown in the table below. The results are shown in the table below. The results are shown in the table below.
- The results of the calibration are shown in the table below. The results are shown in the table below. The results are shown in the table below.
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- The results of the calibration are shown in the table below. The results are shown in the table below. The results are shown in the table below.

Uncontrolled Document

Uncontrolled Document

General

Document Name: 2022-10-10



General

Document Name: Certificate of System Qualification

Subsystem Initialization Report						
Sub	Subsystem Name	Ver	Component	Ver	Ver	Ver
1	Subsystem 1	1.0.0	Component 1	1.0.0	Component 2	1.0.0
2	Subsystem 2	2.0.0	Component 3	2.0.0	Component 4	2.0.0
3	Subsystem 3	3.0.0	Component 5	3.0.0	Component 6	3.0.0
4	Subsystem 4	4.0.0	Component 7	4.0.0	Component 8	4.0.0
5	Subsystem 5	5.0.0	Component 9	5.0.0	Component 10	5.0.0
6	Subsystem 6	6.0.0	Component 11	6.0.0	Component 12	6.0.0
7	Subsystem 7	7.0.0	Component 13	7.0.0	Component 14	7.0.0
8	Subsystem 8	8.0.0	Component 15	8.0.0	Component 16	8.0.0
9	Subsystem 9	9.0.0	Component 17	9.0.0	Component 18	9.0.0
10	Subsystem 10	10.0.0	Component 19	10.0.0	Component 20	10.0.0

Sub	Subsystem Name	Ver	Component	Ver	Ver	Ver
1	Subsystem 1	1.0.0	Component 1	1.0.0	Component 2	1.0.0
2	Subsystem 2	2.0.0	Component 3	2.0.0	Component 4	2.0.0
3	Subsystem 3	3.0.0	Component 5	3.0.0	Component 6	3.0.0
4	Subsystem 4	4.0.0	Component 7	4.0.0	Component 8	4.0.0
5	Subsystem 5	5.0.0	Component 9	5.0.0	Component 10	5.0.0
6	Subsystem 6	6.0.0	Component 11	6.0.0	Component 12	6.0.0
7	Subsystem 7	7.0.0	Component 13	7.0.0	Component 14	7.0.0
8	Subsystem 8	8.0.0	Component 15	8.0.0	Component 16	8.0.0
9	Subsystem 9	9.0.0	Component 17	9.0.0	Component 18	9.0.0
10	Subsystem 10	10.0.0	Component 19	10.0.0	Component 20	10.0.0

Uncontrolled Document

Uncontrolled Document

General

Document Name: Certificate of System Qualification

Subsystem Initialization Report						
Sub	Subsystem Name	Ver	Component	Ver	Ver	Ver
1	Subsystem 1	1.0.0	Component 1	1.0.0	Component 2	1.0.0
2	Subsystem 2	2.0.0	Component 3	2.0.0	Component 4	2.0.0
3	Subsystem 3	3.0.0	Component 5	3.0.0	Component 6	3.0.0
4	Subsystem 4	4.0.0	Component 7	4.0.0	Component 8	4.0.0
5	Subsystem 5	5.0.0	Component 9	5.0.0	Component 10	5.0.0
6	Subsystem 6	6.0.0	Component 11	6.0.0	Component 12	6.0.0
7	Subsystem 7	7.0.0	Component 13	7.0.0	Component 14	7.0.0
8	Subsystem 8	8.0.0	Component 15	8.0.0	Component 16	8.0.0
9	Subsystem 9	9.0.0	Component 17	9.0.0	Component 18	9.0.0
10	Subsystem 10	10.0.0	Component 19	10.0.0	Component 20	10.0.0

General

Document Name: Certificate of System Qualification

Subsystem Initialization Report						
Sub	Subsystem Name	Ver	Component	Ver	Ver	Ver
1	Subsystem 1	1.0.0	Component 1	1.0.0	Component 2	1.0.0
2	Subsystem 2	2.0.0	Component 3	2.0.0	Component 4	2.0.0
3	Subsystem 3	3.0.0	Component 5	3.0.0	Component 6	3.0.0
4	Subsystem 4	4.0.0	Component 7	4.0.0	Component 8	4.0.0
5	Subsystem 5	5.0.0	Component 9	5.0.0	Component 10	5.0.0
6	Subsystem 6	6.0.0	Component 11	6.0.0	Component 12	6.0.0
7	Subsystem 7	7.0.0	Component 13	7.0.0	Component 14	7.0.0
8	Subsystem 8	8.0.0	Component 15	8.0.0	Component 16	8.0.0
9	Subsystem 9	9.0.0	Component 17	9.0.0	Component 18	9.0.0
10	Subsystem 10	10.0.0	Component 19	10.0.0	Component 20	10.0.0

Sub	Subsystem Name	Ver	Component	Ver	Ver	Ver
1	Subsystem 1	1.0.0	Component 1	1.0.0	Component 2	1.0.0
2	Subsystem 2	2.0.0	Component 3	2.0.0	Component 4	2.0.0
3	Subsystem 3	3.0.0	Component 5	3.0.0	Component 6	3.0.0
4	Subsystem 4	4.0.0	Component 7	4.0.0	Component 8	4.0.0
5	Subsystem 5	5.0.0	Component 9	5.0.0	Component 10	5.0.0
6	Subsystem 6	6.0.0	Component 11	6.0.0	Component 12	6.0.0
7	Subsystem 7	7.0.0	Component 13	7.0.0	Component 14	7.0.0
8	Subsystem 8	8.0.0	Component 15	8.0.0	Component 16	8.0.0
9	Subsystem 9	9.0.0	Component 17	9.0.0	Component 18	9.0.0
10	Subsystem 10	10.0.0	Component 19	10.0.0	Component 20	10.0.0

Uncontrolled Document

Uncontrolled Document

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1999

[illegible]

— 100 —

[illegible]

444

Case	Transmission Route	Incubation Period	Type of Transmission	Outbreak Information
Outbreak in a community (Case 1)	Community	1-2 weeks	Person-to-person (close contact)	First outbreak
Outbreak in a family (Case 2)	Family	1-2 weeks	Person-to-person (close contact)	Second outbreak
Outbreak in a school (Case 3)	School	1-2 weeks	Person-to-person (close contact)	Third outbreak
Outbreak in a workplace (Case 4)	Workplace	1-2 weeks	Person-to-person (close contact)	Fourth outbreak
Outbreak in a restaurant (Case 5)	Restaurant	1-2 weeks	Foodborne	Fifth outbreak
Outbreak in a swimming pool (Case 6)	Swimming pool	1-2 weeks	Waterborne	Sixth outbreak
Outbreak in a hospital (Case 7)	Hospital	1-2 weeks	Person-to-person (close contact)	Seventh outbreak

1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26

Certificate of System Qualification

334-4780

Order ID:	9401110001
Organization Name:	United Nations World Water Programme (UN-WFP)
Organization Address:	5, Rue d'Alger, 11, 1201 Geneva, Switzerland, 1201
Date:	April 12, 2021 10:40:12 AM
ERP Name:	AgriSystemCommercial
ERP Revision:	00.02.01
Client Organization Name:	UN-WFP

Student requested and signed letter with Governor

Page	100
Subject Name	Page

Support Number, Department and Basic Entry and Conversion Test Dates

1999

Joseph A. Muscarella, Director

Age: 1990
 Period: 1990
 Selected Statistics:
 Period: 1990
 2000 2010
 Maximum Change:
 Agent Accompanied: 1.1 1.0 0.0
 0.0 0.0 0.0

Specialist may prescribe drug, Test kit

Figure 1

Index/Free-Form: Summary

Band	1996	
	Pre	Post

Downloaded from <https://www.cambridge.org/core>.
 Date: 18 Apr 2020 05:28:54 AM

Source: <http://www.fishbase.org>

[illegible]

Uncontrolled Document

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Subject: Fee:

Amount: Unit: Unit:

Amount: Unit:

Amount: Unit:

General notes/Remarks concerning Test Station

Figure 1

Demographic Data Summary

Name	Year	Rank	File

Subject Name: Date:

Time Type: 0:00

Interval: 30.0 min/act Measurement Time: 30.0 min/act

Reactivity: 0.0 min/act

Agility Performance: 10.0 s subject 3.0 min/act

Enter in percentages of overall for 0.0-recovery, otherwise in degree

Support Factor: Pass

Flow Type: Down

Support: 420.0 m/min Support Rate: 100.0 m/min

Accuracy: 0.5 m/min

Agree Recommendation: 100 % applied 100.0 m/min

Control Parameters: 10.0 m/min, 10.0 m/min

Request Status: Name:
 Plant Type: Species:
 Release: (1/1/00) (1/1/00) (1/1/00) (1/1/00)
 Account: (1/1/00) (1/1/00)
 Action Description: (1/1/00) (1/1/00) (1/1/00) (1/1/00)

Date: April 16, 2022 10:45:33 AM
 Version: 1.0

0000-0001-9000-0000

Uncontrolled Document

Downloaded From: Saturday, 11 May 2013

1

Defining Your Business

Series:	1980	
	1985	1990

Sigmaplot Results:

File: _____

Print Type: _____

Input: _____ Observed Time: 0.7 min

Accuracy: 91.1 % accuracy

Average Reconstitution: 14.2 % accuracy (0.2 min)

(Note: A percentage of up to 2.1 intensity will be accepted.)

Relative Status: **Pass**

File Type: **Executable**

Subtype: **EXE** **64-bit** **Observed Page** **22.2** **64,000**

Discovery: **2.0** **40,000**

Agent Recommendation: **10** **10.0** **7.5-agent** **0.0** **0.0** **0.0**

(0.0 is a percentage of subcritical 0.5 intervals, which may be large)

Segment Status	Phase	Start Date	End Date	Duration	Progress
Phase 1	Planning	01/01/2023	03/31/2023	90 Days	100%
Phase 2	Design	04/01/2023	06/30/2023	90 Days	100%
Phase 3	Construction	07/01/2023	09/30/2023	90 Days	100%
Phase 4	Commissioning	10/01/2023	10/31/2023	31 Days	100%

Success (Delete) File Attributes Time Update

2

2011 Great Lakes National Accounting

Topic:	April 1st, 2011 (Monday)
Page No.:	10/11/2011

Page 3/20

Uncontrolled Document

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Name: 1000

Reagent Station: Pass

Unit: None

Subunit Model: Agilent 1100

Temperature: 22.0 22.0 °C

Pressure: 3.3 °C

Agilent Recommended: 1.0 1.0 °C 1.0 1.0 °C

Reagent Station: Pass

Unit: None

Subunit Model: Agilent 1100

Temperature: 22.0 22.0 °C

Pressure: 3.3 °C

Agilent Recommended: 1.0 1.0 °C 1.0 1.0 °C

Overall GC Oven Temperature Accuracy Test Status: Pass

GC Oven Temperature Stability

Name: 1000

Reagent Station: Pass

Unit: None

Subunit Model: Agilent 1100

Temperature: 22.0 22.0 °C

Pressure: 3.3 °C

Agilent Recommended: 1.0 1.0 °C 1.0 1.0 °C

Overall GC Oven Temperature Accuracy Test Status: Pass

Smoking Port

Tested (Continuously): Pass 22.0 1.0 1.0

Injection Tower: Pass

Date: April 15, 2022 10:10:00 AM

System ID: 000111001

Page 4 of 20

Uncontrolled Document

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Name: 1000

Reagent Station: Completed

Unit: None

Subunit Model: Agilent 1100

Temperature: 22.0 22.0 °C

Pressure: 3.3 °C

Agilent Recommended: 1.0 1.0 °C 1.0 1.0 °C

Overall GC Oven Temperature Accuracy Test Status: Pass

GC Oven Temperature Stability

Name: 1000

Reagent Station: Pass

Unit: None

Subunit Model: Agilent 1100

Temperature: 22.0 22.0 °C

Pressure: 3.3 °C

Agilent Recommended: 1.0 1.0 °C 1.0 1.0 °C

Overall GC Oven Temperature Accuracy Test Status: Pass

Smoking Port

Tested (Continuously): Pass 22.0 1.0 1.0

Injection Tower: Pass

Date: April 15, 2022 10:10:00 AM

System ID: 000111001

Page 4 of 20

Uncontrolled Document

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Reagent Station: Pass

Unit: None

Subunit Model: Agilent 1100

Temperature: 22.0 22.0 °C

Pressure: 3.3 °C

Agilent Recommended: 1.0 1.0 °C 1.0 1.0 °C

Overall GC Oven Temperature Accuracy Test Status: Pass

GC Oven Temperature Stability

Name: 1000

Reagent Station: Pass

Unit: None

Subunit Model: Agilent 1100

Temperature: 22.0 22.0 °C

Pressure: 3.3 °C

Agilent Recommended: 1.0 1.0 °C 1.0 1.0 °C

Overall GC Oven Temperature Accuracy Test Status: Pass

Smoking Port

Tested (Continuously): Pass 22.0 1.0 1.0

Injection Tower: Pass

Date: April 15, 2022 10:10:00 AM

System ID: 000111001

Page 4 of 20

Uncontrolled Document

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Reagent Station: Pass

Unit: None

Subunit Model: Agilent 1100

Temperature: 22.0 22.0 °C

Pressure: 3.3 °C

Agilent Recommended: 1.0 1.0 °C 1.0 1.0 °C

Overall GC Oven Temperature Accuracy Test Status: Pass

GC Oven Temperature Stability

Name: 1000

Reagent Station: Pass

Unit: None

Subunit Model: Agilent 1100

Temperature: 22.0 22.0 °C

Pressure: 3.3 °C

Agilent Recommended: 1.0 1.0 °C 1.0 1.0 °C

Overall GC Oven Temperature Accuracy Test Status: Pass

Smoking Port

Tested (Continuously): Pass 22.0 1.0 1.0

Injection Tower: Pass

Date: April 15, 2022 10:10:00 AM

System ID: 000111001

Page 4 of 20

Uncontrolled Document

Download Agilent to Review Test Results
File:

Instrument Details

Purpose:
This section describes the analytical system configuration.

Details

System 1	
Manufacturer	QIMADA 2021
Model	Agilent Technologies
Name	MS
Flow Control	Manual Control
Temperature Control	Manual Control or Other Data Logging
System Configuration	
Injection Technique	Injection System
Unit	Flow
Detector	Flow
Control Mode	No
System Configuration	
Injection Technique	Injection System
Unit	Flow
Detector	Flow
Control Mode	No
System 2	
Manufacturer	Agilent Technologies
Type	Injection System
Name	MS
Model Number	QIMADA
Serial Number	QIMADA001
Primary Function	A-10-10
Control Mode	Manual Control
Location	Flow
Control Mode (p.i.)	MS

Date: April 18, 2023 10:30:00 AM
System ID: QIMADA001

Page 1 of 2

Date: April 18, 2023 10:30:00 AM
System ID: QIMADA001

Page 1 of 2

Uncontrolled Document

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System 1	
Manufacturer	Agilent Technologies
Type	MS
Name	MS
Model Number	QIMADA
Serial Number	QIMADA001
Primary Function	A-10-10
Control Mode	Manual Control
System 2	
Manufacturer	Agilent Technologies
Type	MS
Model Number	QIMADA
Serial Number	QIMADA001
Primary Function	A-10-10
Control Mode	Manual Control
System 3	
Manufacturer	Agilent Technologies
Name	MS
Type	MS
Location	Flow
Control Mode	Manual Control
Control Type	Electronic Pressure Control (EPC)
Purge Gas	Flow
System 4	
Manufacturer	Agilent Technologies
Name	MS
Type	MS
Location	Flow
Control Type	Electronic Pressure Control (EPC)
Purge Gas	Flow

Date: April 18, 2023 10:30:00 AM
System ID: QIMADA001

Page 1 of 2

Date: April 18, 2023 10:30:00 AM
System ID: QIMADA001

Page 1 of 2

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Page 19

— **Figure 1**

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Figure 10-10

1999

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Dr. M. S. Subramaniam

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- 2. Check of safety and configuration settings between PLC, HMI and operator.
- 3. Perform a manual start using the emergency stop button.
- 4. Check operation of all fans.
- 5. Check settings for correct purge operation.
- 6. Check for correct operation of the waste system – avoid blockages.

Signature Institution

1. Measure the nominal operating conditions of a system without using the test system.
2. Prepare the system with a nominal value for T in a circuit.
3. Run the system, then measure the nominal operating conditions.
4. After adjustments, check and record the new PM density signal related values.
5. Results should be similar or lower than the density signal recorded value to the PM.
6. Perform a chemical analysis. If this is a reactive PM, analyze the system's sample using the H_2O_2 solution. This will act as a low threshold of both the H_2 and the O_2 .

Note: If the H4 benefit is performed prior to a qualification period, then use the qualification period as a basis for the calculation of the award amount.

Received 22 June 2004; accepted 12 November 2004
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 DOI: 10.1002/eqe.678

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Signature Page

Editorial Reviews

- [illegible]

Table 1: Test Results Table

Parameter	Before PM Service	After PM Service
Front deflector installed	0%	100%
Side deflector installed	50%	100%
Roll deflector installed	0%	100%
Roll-over Protection (ROPS)	Expected 100% result None	Actual test result 100%
Front steel structural bumper test	0%	100%
Roll-over structural bumper test	0%	100%

Received 10/11/2001; Accepted 10/20/2001
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Agilent

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2850 Form List Table

The following site has been provided for the reader's and project's interest only. It is a general information source and is not intended to be used as a source of information. The user assumes all responsibility for the use of the information.

Part description	Part number	Product is stocked when used	Quantity contracted
22L Capillary 1/16" PM AS, 1/16" ID	2100-0401	YES/A	7
23L Capillary 1/16" PM AS, 1/16"	2100-0404	YES/A	1/2
25C Capillary 1/16" Inert 1/16" OD, 1/16" wall with Wheat	2100-040A	YES/A	1/2
26L Capillary 1/16" Inert 1/16" ID, 1/16" wall Single Open, with 22mm Head	2100-1201	YES/A	1/2
27L Capillary 1/16" Inert 1/16" ID, 1/16" wall with 22mm Head	2100-1202	YES/A	1/2
27L Inert 1/16" PM AS, Single Openings for 22mm PTC & 21	2100-0406	YES/A	1/2
28B Flaring 22	2100-0408	YES/A	1/2
27C Inertness Head Refill 22	2100-0411	YES/A	1/2
27D Inertness Head Refill 22	2100-0410	YES/A	1/2
27E Inertness Head Refill 22	2100-0409	YES/A	1/2
27F Inertness Head Refill 22	2100-0407	YES/A	1/2
27G Inertness Head Refill 22	2100-0405	YES/A	1/2
27H Inertness Head Refill 22	2100-0403	YES/A	1/2
27I Inertness Head Refill 22	2100-0402	YES/A	1/2
27J Inertness Head Refill 22	2100-0401	YES/A	1/2
27K Inertness Head Refill 22	2100-0400	YES/A	1/2
27L Inertness Head Refill 22	2100-0399	YES/A	1/2
27M Inertness Head Refill 22	2100-0398	YES/A	1/2
27N Inertness Head Refill 22	2100-0397	YES/A	1/2
27O Inertness Head Refill 22	2100-0396	YES/A	1/2
27P Inertness Head Refill 22	2100-0395	YES/A	1/2
27Q Inertness Head Refill 22	2100-0394	YES/A	1/2
27R Inertness Head Refill 22	2100-0393	YES/A	1/2
27S Inertness Head Refill 22	2100-0392	YES/A	1/2
27T Inertness Head Refill 22	2100-0391	YES/A	1/2
27U Inertness Head Refill 22	2100-0390	YES/A	1/2
27V Inertness Head Refill 22	2100-0389	YES/A	1/2
27W Inertness Head Refill 22	2100-0388	YES/A	1/2
27X Inertness Head Refill 22	2100-0387	YES/A	1/2
27Y Inertness Head Refill 22	2100-0386	YES/A	1/2
27Z Inertness Head Refill 22	2100-0385	YES/A	1/2
27AA Inertness Head Refill 22	2100-0384	YES/A	1/2
27AB Inertness Head Refill 22	2100-0383	YES/A	1/2
27AC Inertness Head Refill 22	2100-0382	YES/A	1/2
27AD Inertness Head Refill 22	2100-0381	YES/A	1/2
27AE Inertness Head Refill 22	2100-0380	YES/A	1/2
27AF Inertness Head Refill 22	2100-0379	YES/A	1/2
27AG Inertness Head Refill 22	2100-0378	YES/A	1/2
27AH Inertness Head Refill 22	2100-0377	YES/A	1/2
27AI Inertness Head Refill 22	2100-0376	YES/A	1/2
27AJ Inertness Head Refill 22	2100-0375	YES/A	1/2
27AK Inertness Head Refill 22	2100-0374	YES/A	1/2
27AL Inertness Head Refill 22	2100-0373	YES/A	1/2
27AM Inertness Head Refill 22	2100-0372	YES/A	1/2
27AN Inertness Head Refill 22	2100-0371	YES/A	1/2
27AO Inertness Head Refill 22	2100-0370	YES/A	1/2
27AP Inertness Head Refill 22	2100-0369	YES/A	1/2
27AQ Inertness Head Refill 22	2100-0368	YES/A	1/2
27AR Inertness Head Refill 22	2100-0367	YES/A	1/2
27AS Inertness Head Refill 22	2100-0366	YES/A	1/2
27AT Inertness Head Refill 22	2100-0365	YES/A	1/2
27AU Inertness Head Refill 22	2100-0364	YES/A	1/2
27AV Inertness Head Refill 22	2100-0363	YES/A	1/2
27AW Inertness Head Refill 22	2100-0362	YES/A	1/2
27AX Inertness Head Refill 22	2100-0361	YES/A	1/2
27AY Inertness Head Refill 22	2100-0360	YES/A	1/2
27AZ Inertness Head Refill 22	2100-0359	YES/A	1/2
27BA Inertness Head Refill 22	2100-0358	YES/A	1/2
27BB Inertness Head Refill 22	2100-0357	YES/A	1/2
27BC Inertness Head Refill 22	2100-0356	YES/A	1/2
27BD Inertness Head Refill 22	2100-0355	YES/A	1/2
27BE Inertness Head Refill 22	2100-0354	YES/A	1/2
27BF Inertness Head Refill 22	2100-0353	YES/A	1/2
27BG Inertness Head Refill 22	2100-0352	YES/A	1/2
27BH Inertness Head Refill 22	2100-0351	YES/A	1/2
27BI Inertness Head Refill 22	2100-0350	YES/A	1/2
27BJ Inertness Head Refill 22	2100-0349	YES/A	1/2
27BK Inertness Head Refill 22	2100-0348	YES/A	1/2
27BL Inertness Head Refill 22	2100-0347	YES/A	1/2
27BM Inertness Head Refill 22	2100-0346	YES/A	1/2
27BN Inertness Head Refill 22	2100-0345	YES/A	1/2
27BO Inertness Head Refill 22	2100-0344	YES/A	1/2
27BP Inertness Head Refill 22	2100-0343	YES/A	1/2
27BQ Inertness Head Refill 22	2100-0342	YES/A	1/2
27BR Inertness Head Refill 22	2100-0341	YES/A	1/2
27BS Inertness Head Refill 22	2100-0340	YES/A	1/2
27BT Inertness Head Refill 22	2100-0339	YES/A	1/2
27BU Inertness Head Refill 22	2100-0338	YES/A	1/2
27BV Inertness Head Refill 22	2100-0337	YES/A	1/2
27BW Inertness Head Refill 22	2100-0336	YES/A	1/2
27BX Inertness Head Refill 22	2100-0335	YES/A	1/2
27BY Inertness Head Refill 22	2100-0334	YES/A	1/2
27BZ Inertness Head Refill 22	2100-0333	YES/A	1/2
27CA Inertness Head Refill 22	2100-0332	YES/A	1/2
27CB Inertness Head Refill 22	2100-0331	YES/A	1/2
27CC Inertness Head Refill 22	2100-0330	YES/A	1/2
27CD Inertness Head Refill 22	2100-0329	YES/A	1/2
27CE Inertness Head Refill 22	2100-0328	YES/A	1/2
27CF Inertness Head Refill 22	2100-0327	YES/A	1/2
27CG Inertness Head Refill 22	2100-0326	YES/A	1/2
27CH Inertness Head Refill 22	2100-0325	YES/A	1/2
27CI Inertness Head Refill 22	2100-0324	YES/A	1/2
27CJ Inertness Head Refill 22	2100-0323	YES/A	1/2
27CK Inertness Head Refill 22	2100-0322	YES/A	1/2
27CL Inertness Head Refill 22	2100-0321	YES/A	1/2
27CM Inertness Head Refill 22	2100-0320	YES/A	1/2
27CN Inertness Head Refill 22	2100-0319	YES/A	1/2
27CO Inertness Head Refill 22	2100-0318	YES/A	1/2
27CP Inertness Head Refill 22	2100-0317	YES/A	1/2
27CQ Inertness Head Refill 22	2100-0316	YES/A	1/2
27CR Inertness Head Refill 22	2100-0315	YES/A	1/2
27CS Inertness Head Refill 22	2100-0314	YES/A	1/2
27CT Inertness Head Refill 22	2100-0313	YES/A	1/2
27CU Inertness Head Refill 22	2100-0312	YES/A	1/2
27CV Inertness Head Refill 22	2100-0311	YES/A	1/2
27CW Inertness Head Refill 22	2100-0310	YES/A	1/2
27CX Inertness Head Refill 22	2100-0309	YES/A	1/2
27CY Inertness Head Refill 22	2100-0308	YES/A	1/2
27CZ Inertness Head Refill 22	2100-0307	YES/A	1/2
27DA Inertness Head Refill 22	2100-0306	YES/A	1/2
27DB Inertness Head Refill 22	2100-0305	YES/A	1/2
27DC Inertness Head Refill 22	2100-0304	YES/A	1/2
27DD Inertness Head Refill 22	2100-0303	YES/A	1/2
27DE Inertness Head Refill 22	2100-0302	YES/A	1/2
27DF Inertness Head Refill 22	2100-0301	YES/A	1/2
27DG Inertness Head Refill 22	2100-0300	YES/A	1/2
27DH Inertness Head Refill 22	2100-0299	YES/A	1/2
27DI Inertness Head Refill 22	2100-0298	YES/A	1/2
27DJ Inertness Head Refill 22	2100-0297	YES/A	1/2
27DK Inertness Head Refill 22	2100-0296	YES/A	1/2
27DL Inertness Head Refill 22	2100-0295	YES/A	1/2
27DM Inertness Head Refill 22	2100-0294	YES/A	1/2
27DN Inertness Head Refill 22	2100-0293	YES/A	1/2
27DO Inertness Head Refill 22	2100-0292	YES/A	1/2
27DP Inertness Head Refill 22	2100-0291	YES/A	1/2
27DQ Inertness Head Refill 22	2100-0290	YES/A	1/2
27DR Inertness Head Refill 22	2100-0289	YES/A	1/2
27DS Inertness Head Refill 22	2100-0288	YES/A	1/2
27DT Inertness Head Refill 22	2100-0287	YES/A	1/2
27DU Inertness Head Refill 22	2100-0286	YES/A	1/2
27DV Inertness Head Refill 22	2100-0285	YES/A	1/2
27DW Inertness Head Refill 22	2100-0284	YES/A	1/2
27DX Inertness Head Refill 22	2100-0283	YES/A	1/2
27DY Inertness Head Refill 22	2100-0282	YES/A	1/2
27DZ Inertness Head Refill 22	2100-0281	YES/A	1/2
27EA Inertness Head Refill 22	2100-0280	YES/A	1/2
27EB Inertness Head Refill 22	2100-0279	YES/A	1/2
27EC Inertness Head Refill 22	2100-0278	YES/A	1/2
27ED Inertness Head Refill 22	2100-0277	YES/A	1/2
27EE Inertness Head Refill 22	2100-0276	YES/A	1/2
27EF Inertness Head Refill 22	2100-0275	YES/A	1/2
27EG Inertness Head Refill 22	2100-0274	YES/A	1/2
27EH Inertness Head Refill 22	2100-0273	YES/A	1/2
27EI Inertness Head Refill 22	2100-0272	YES/A	1/2
27EJ Inertness Head Refill 22	2100-0271	YES/A	1/2
27EK Inertness Head Refill 22	2100-0270	YES/A	1/2
27EL Inertness Head Refill 22	2100-0269	YES/A	1/2
27EM Inertness Head Refill 22	2100-0268	YES/A	1/2
27EN Inertness Head Refill 22	2100-0267	YES/A	1/2
27EO Inertness Head Refill 22	2100-0266	YES/A	1/2
27EP Inertness Head Refill 22	2100-0265	YES/A	1/2
27EQ Inertness Head Refill 22	2100-0264	YES/A	1/2
27ER Inertness Head Refill 22	2100-0263	YES/A	1/2
27ES Inertness Head Refill 22	2100-0262	YES/A	1/2
27ET Inertness Head Refill 22	2100-0261	YES/A	1/2
27EU Inertness Head Refill 22	2100-0260	YES/A	1/2
27EV Inertness Head Refill 22	2100-0259	YES/A	1/2
27EW Inertness Head Refill 22	2100-0258	YES/A	1/2
27EX Inertness Head Refill 22	2100-0257	YES/A	1/2
27EY Inertness Head Refill 22	2100-0256	YES/A	1/2
27EZ Inertness Head Refill 22	2100-0255	YES/A	1/2
27FA Inertness Head Refill 22	2100-0254	YES/A	1/2
27FB Inertness Head Refill 22	2100-0253	YES/A	1/2
27FC Inertness Head Refill 22	2100-0252	YES/A	1/2
27FD Inertness Head Refill 22	2100-0251	YES/A	1/2
27FE Inertness Head Refill 22	2100-0250	YES/A	1/2
27FF Inertness Head Refill 22	2100-0249	YES/A	1/2
27FG Inertness Head Refill 22	2100-0248	YES/A	1/2
27FH Inertness Head Refill 22	2100-0247	YES/A	1/2
27FI Inertness Head Refill 22	2100-0246	YES/A	1/2
27FJ Inertness Head Refill 22	2100-0245	YES/A	1/2
27FK Inertness Head Refill 22	2100-0244	YES/A	1/2
27FL Inertness Head Refill 22	2100-0243	YES/A	1/2
27FM Inertness Head Refill 22	2100-0242	YES/A	1/2
27FN Inertness Head Refill 22	2100-0241	YES/A	1/2
27FO Inertness Head Refill 22	2100-0240	YES/A	1/2
27FP Inertness Head Refill 22	2100-0239	YES/A	1/2
27FQ Inertness Head Refill 22	2100-0238	YES/A	1/2
27FR Inertness Head Refill 22	2100-0237	YES/A	1/2
27FS Inertness Head Refill 22	2100-0236	YES/A	1/2
27FT Inertness Head Refill 22	2100-0235	YES/A	1/2
27FU Inertness Head Refill 22	2100-0234	YES/A	1/2
27FV Inertness Head Refill 22	2100-0233	YES/A	1/2
27FW Inertness Head Refill 22	2100-0232	YES/A	1/2
27FX Inertness Head Refill 22	2100-0231	YES/A	1/2
27FY Inertness Head Refill 22	2100-0230	YES/A	1/2
27FZ Inertness Head Refill 22	2100-0229	YES/A	1/2
27GA Inertness Head Refill 22	2100-0228	YES/A	1/2
27GB Inertness Head Refill 22	2100-0227	YES/A	1/2
27GC Inertness Head Refill 22	2100-0226	YES/A	1/2
27GD Inertness Head Refill 22	2100-0225	YES/A	1/2
27GE Inertness Head Refill 22	2100-0224	YES/A	1/2
27GF Inertness Head Refill 22	2100-0223	YES/A	1/2
27GG Inertness Head Refill 22	2100-0222	YES/A	1/2
27GH Inertness Head Refill 22	2100-0221	YES/A	1/2
27GI Inertness Head Refill 22	2100-0220	YES/A	1/2
27GJ Inertness Head Refill 22	2100-0219	YES/A	1/2
27GK Inertness Head Refill 22	2100-0218	YES/A	1/2
27GL Inertness Head Refill 22	2100-0217	YES/A	1/2
27GM Inertness Head Refill 22	2100-0216	YES/A	1/2
27GN Inertness Head Refill 22	2100-0215	YES/A	1/2
27GO Inertness Head Refill 22	2100-0214	YES/A	1/2
27GP Inertness Head Refill 22	2100-0213	YES/A	1/2
27GQ Inertness Head Refill 22	2100-0212	YES/A	1/2
27GR Inertness Head Refill 22	2100-0211	YES/A	1/2
27GS Inertness Head Refill 22	2100-0210	YES/A	1/2
27GT Inertness Head Refill 22	2100-0209	YES/A	1/2
27GU Inertness Head Refill 22	2100-0208	YES/A	1/2
27GV Inertness Head Refill 22	2100-0207	YES/A	1/2
27GW Inertness Head Refill 22	2100-0206	YES/A	1/2
27GX Inertness Head Refill 22	2100-0205	YES/A	1/2
27GY Inertness Head Refill 22	2100-0204	YES/A	1/2
27GZ Inertness Head Refill 22	2100-0203	YES/A	1/2
27HA Inertness Head Refill 22	2100-0202	YES/A	1/2
27HB Inertness Head Refill 22	2100-0201	YES/A	1/2
27HC Inertness Head Refill 22	2100-0200	YES/A	1/2
27HD Inertness Head Refill 22	2100-0199	YES/A	1/2
27HE Inertness Head Refill 22	2100-0198	YES/A	1/2
27HF Inertness Head Refill 22	2100-0197	YES/A	1/2
27HG Inertness Head Refill 22	2100-0196	YES/A	1/2
27HH Inertness Head Refill 22	2100-0195	YES/A	1/2
27HI Inertness Head Refill 22	2100-0194	YES/A	1/2
27HJ Inertness Head Refill 22	2100-0193	YES/A	1/2
27HK Inertness Head Refill 22	2100-0192	YES/A	1/2
27HL Inertness Head Refill 22	2100-0191	YES/A	1/2
27HM Inertness Head Refill 22	2100-0190	YES/A	1/2
27HN Inertness Head Refill 22	2100-0189	YES/A	1/2
27HO Inertness Head Refill 22	2100-0188	YES/A	1/2
27HP Inertness Head Refill 22	2100-0187	YES/A	1/2
27HQ Inertness Head Refill 22	2100-0186	YES/A	1/2
27HR Inertness Head Refill 22	2100-0185	YES/A	1/2
27HS Inertness Head Refill 22	2100-0184	YES/A	1/2
27HT Inertness Head Refill 22	2100-0183	YES/A	1/2
27HU Inertness Head Refill 22	2100-0182	YES/A	1/2
27HV Inertness Head Refill 22	2100-0181	YES/A	1/2
27HW Inertness Head Refill 22	2100-0180	YES/A	1/2
27HX Inertness Head Refill 22	2100-0179	YES/A	1/2
27HY Inertness Head Refill 22	2100-0178	YES/A	1/2
27HZ Inertness Head Refill 22	2100-0177	YES/A	1/2
27IA Inertness Head Refill 22	2100-0176	YES/A	1/2
27IB Inertness Head Refill 22	2100-0175	YES/A	1/2
27IC Inertness Head Refill 22	2100-0174	YES/A	1/2
27ID Inertness Head Refill 22	2100-0173	YES/A	1/2
27IE Inertness Head Refill 22	2100-0172	YES/A	1/2
27IF Inertness Head Refill 22			

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Service Income Expenses

¹ If there are any specific points you wish to raise, do so at the beginning of the session in order to allow the speaker time to address them.

Service Completion

Invoice recipient name: STC (UK) LTD Date invoice completed: 19/04/2023
 Agent signature: [Signature] Customer signature: _____
 Telephone number of person in charge: 0114 275 1985

Received 12/21/2020; accepted 1/20/2021
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Protocol Details

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Agilent CrossLab Start Up Services

Agilent GCMS
Preventive Maintenance Checklist

(d)

Agilent Massware (Massware) provides timely recommended actions for your analytical instruments to achieve reliable operation and the accuracy of your results.

Delivered by highly trained and certified service engineers using genuine Agilent parts and supplies, Agilent Proactive Maintenance provides everything you need to reduce unplanned downtime and keep your systems operating at their peak. This standard will be completed at the end of the service and presented to you as a record of the preventive maintenance activities.

10

Keywords: *depression, mood, anxiety, self-esteem, self-efficacy, self-esteem, self-efficacy, self-esteem, self-efficacy*

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เอกสารไม่ควบคุม



Author's address: University of Michigan, 48106-0615, USA.

Introduction

Select the appropriate phrase to describe and then perform the requested action. The answer

Learning Objectives

10

Mass Free-Flow Signature

Keywords:

This checklist assesses the following model:

[illegible]

Continued

- Customers should provide all necessary details of sensitive areas relevant to the program.
- A customer representative is required to be on-site at the airport when performing the security vulnerability assessment. Customers are responsible for regular maintenance and are encouraged to conduct the review semi-annually.
- Any party not included in the TSP/LEADS sections of this document are required of the International Procedures Management section and are hereby included in the place of the : - - - - -
- If a system requires the use of data or materials provided in this call for the International airport, then there must be robust security arrangements in place which meet the requirements.



[†] <http://www.ck12.org/Book-Search>

Important Customer Needs List

- Are many relationships about agents? [Thompson's answer](#), always yes, not machine going to following (Q2: 2011) [Lecture 3: Introduction to agent-oriented and situated cognition and the brain](#)
- To people, agents, literally, and figuratively, agents are usually perceived to have goals, trying to achieve, which include self, themselves and some library. A learning agent can work closely with you to help determine your best options.
- A useful agent resource (start with page 4) available, which explains what agents in Thompson's work have been characterized by one or more of the six typical attributes. (Start with the [Thompson Page 4](#)) [http://www.cba.hawaii.edu/~thompson/agents.html](#)
- Good historical account of this subject - read for [background page 4](#). [http://www.cba.hawaii.edu/~thompson/agents.html](#)
- See [Thompson's Introduction to Agents](#) [http://www.cba.hawaii.edu/~thompson/agents.html](#)

Service Engineer's Responsibilities

- Upload the customer postcard that all necessary supplies are assembled using the previous information.
- Complete single steps with the relevant information.
- Complete the account information in the standard using either a "Y" or "N" and "Not a Y".
- Check "Service not applicable" when there is no service relationship not defined, in accordance.
- Complete the Procedure Information section in the next logical order related to the individual system service in the order of the basic level.
- Complete the Service Request section together with the customer.
- Ask the customer to sign the Service Completion section including the customer's and your signature.

Additional Information

- * *Preventive maintenance* is a highly recommended procedure designed to ensure the highest level of performance of the system. To obtain further information on maintenance, please contact the following telephone number: 1-800-368-5868. Two preventive maintenance (PM) visits per year are recommended. The Napsi PM Service will be performed annually with an onsite PM performed quarterly after the Napsi PM.

เอกสารไม่ควบคุม

เอกสารไม่ควบคุม

Statistik **Infinitesimalrechnung**

- ^d That is, the use of a non-integer coefficient is allowed instead of restricting the α to 0 or 1.

[illegible]

Keywords: *workplace spirituality, spirituality, spirituality in the workplace, spirituality in the workplace, spirituality in the workplace*

- ✓ Discuss any specific issues with the customer before starting
 - ✓ Review the indicated update, its scope and problems and solutions
 - ✓ Take a complete backup before applying the updates
 - ✓ Perform a general backup of the registry (optional)
 - ✓ Check for active transactions during automatic installation
 - ✓ Check system log for any installation of components and settings as defined by current service types
 - ✓ Check for the service status and verify with customer if they would like them enabled
- Remember to update all services regularly!

Keywords: *Self-esteem, self-esteem threat, self-esteem threat sensitivity, self-esteem threat sensitivity scale, self-esteem threat sensitivity scale-2*

University should accept full of necessary operating supplies, consumables, and complete inventory items such as gases, oils, reagents, solvent wastes, and solvents required by hazardous processes. Hazardous gas analysis: a certified professional should be provided with the procedure, equipment, and personnel.

Investment banking for entrepreneurs

The instructor should complete the following before the Support Systems article is also

- A* Pattern of evidence indicates the present findings may apply to the rest of the 192's very substantially of the movement.

Note: It is recommended to turn the monitor up to the minimum and turn the volume up to the VM (not that loud) the next cycle so that the instrument will be ready for the service representative.

Evaluation of the Test/Recommendation items within the discussion

Type		Recommendation		
Ref	Age	months	(years if 48 months)	
<input checked="" type="checkbox"/>	20	12	1	<input type="checkbox"/> Yes, collected data for the last 48 hours of the past year reported.
<input checked="" type="checkbox"/>	20	12	1	<input type="checkbox"/> No, collected more than the year we need data at the past year was required.
<input checked="" type="checkbox"/>	12	36	3	<input type="checkbox"/> Insert information: The first ask, a recommendation to be done in last 48 hours.
<input checked="" type="checkbox"/>	12	36	3	<input type="checkbox"/> Major which means that this last a recommendation to be collected if the customer would like a recommendation to be done a month before the last 48 hours could be purchased.
<input checked="" type="checkbox"/>	12	36	3	<input type="checkbox"/> As needed information The last 48 hours data is for the past year was required. For customer, this data is for the last 48 hours that could be used and this was the one selected.

Preventive Maintenance Procedures

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Date		Page		Topic	
1	1	1	1	1	1
2	2	2	2	2	2
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72	72	72	72	72	72
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74	74	74	74	74	74
75	75	75			

Subject: <u>English</u>	
Q.1	Write a paragraph about the importance of education.
Q.2	Describe the life of a farmer in a rural area.
Q.3	Write a letter to your friend about your school.
Q.4	Write a story about a brave knight.
Q.5	Write a poem about the beauty of nature.
Q.6	Write a paragraph about the importance of health.
Q.7	Write a letter to your mother about your school.
Q.8	Write a story about a magical forest.
Q.9	Write a paragraph about the importance of family.
Q.10	Write a letter to your teacher about your school.

Service Members

- [illegible]

Adjunct Test Results Table

Task/Assignment	Presented/Submitted	Score/Total Score
Act. 100	100	100
Enlighten	100	100
2		

Affixes Consumed While List Traversed

 McGraw-Hill

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เอกสารไม่ควบคุม

Acidfast Chest ah (Start Up Services)

Agilent 8890 Gas Chromatograph
Preventive Maintenance Checklist

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indicated by highly varied and useful source materials such as journals, letters, notes and accounts, diaries, manuscript collections, historical recordings, etc., as well as a substantial body of new and secondary literature, covering in their part. This chapter will be completed at the end of the volume and presents in an extended list of the sources used in the volume.

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Signature Page

Service Engineers' Committee (Shellen) 40

Service Component:

Downloaded from <http://www.jstor.org/stable/2346494> Tue, 20 Jun 2016 12:02:00 UTC

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Total number of pages in this document: 200

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www.transactlab.com

Abstract

- [illegible]

Department of Mathematics, North Carolina State University

- [illegible]

เอกสารไม่ควบคุม



Condition of this calibration result

A. Reference Standard Instruments :

This calibration is traceable to the International System of unit (SI) unit through:-
- Technology Promotion Association (TAPAC) agency

Instruments	Serial No.	ID No.	Certificate No.	Exp. date
1) Torque Hysteresis	110100	1001010	2021001	13 June 2024
2) Electronic Balance	11001000	1001000	200000	27 Feb. 2024

B. Standard Material : The Reference materials have been checked geometric form

Material	Manufacturer	Lot No.	Range
1) Hexamethylene Glycol	HAARMA	000000001	50-100%
2) Hydrochloric Acid	HAARMA	000000014	50-100%

3. This certificate is valid only for the item calibration process and result of calibration.

Calibration result

Performing One - Torque suspension standard curve by using 8.25,180,400 (800 N) Torque Meter Serial Number : 112000007

Standard Torque suspension (N)	UUT Reading (N)	Uncertainty of Measurement (± N)	Coverage Factor k
0	0.00	0.0001	1.00
20	20.0	0.04	2.00
100	100	0.20	2.00
400	400	1.0	2.00
800	800	2.0	2.00

Remark :
- UUT = 1144 Under Calibration
- N = Nephelometric Turbidity Units

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor k, providing a level of confidence of approximately 95 %.

เอกสารไม่ควบคุม