

ผลการตรวจวัดคุณภาพอากาศภายในอาคาร

Report No. : 2022-5005489/ 001 (Page 1 of 1) Issued date: October 26, 2022

CLIENT : GRANDE ASSET HOTELS AND PROPERTY PUBLIC COMPANY LIMITED
CONTACT : Khun Suwit Polrachom
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Analysis Report

SAMPLE DESIGNATED AS : Indoor Air Quality
SAMPLING LOCATION : Lobby on 1st Floor at Hyatt Regency Bangkok **SAMPLING DATE:** October 14, 2022

Parameters	Units	Results		Standard*
		10:05 hrs.	13:51 hrs.	
1. Temperature	°C	22.6	22.3	24.0 -26.0
2. Relative Humidity	%RH	74.1	75.0	<70
3. Carbon dioxide (CO ₂)	ppm	84(566)	95(577)	700 above outdoor
4. Carbon monoxide (CO)	ppm	0.0	3.4	<9
5. Formaldehyde	ppm	0.00	0.00	<0.1
6. Ozone	ppm	0.00	0.00	<0.1
7. Total VOCs	ppm	0.00	0.00	<3
8. Particulate matter less than 2.5 micron (PM-2.5)	µg/m ³	6.05	9.80	<35
9. Particulate matter less than 10 micron (PM-10)	µg/m ³	30.65	41.98	<50
10. Total Bacteria (Airborne)	CFU/m ³	90		<500
11. Yeast & Mold (Airborne)	CFU/m ³	Not Detected		<500

Remark: - Outdoor on October 14, 2022; Temperature is 29.2 °C, Relative Humidity is 61.9 %RH and Carbon dioxide is 482 ppm.
Source: * Code of Practice for Indoor air quality for air-conditioned building; Singapore Standard SS 554:2009



SGS (THAILAND) LIMITED

Thepsan Y.
 (Thepsan Yommana)
 Technical Manager

TY/CG/PPT/PPT

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Report No. : 2022-5005489/ 002 (Page 1 of 1) Issued date: October 26, 2022

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Analysis Report

SAMPLE DESIGNATED AS : Indoor Air Quality **SAMPLING DATE:** October 14, 2022
SAMPLING LOCATION : Restaurant on 4th Floor at Hyatt Regency Bangkok

Parameters	Units	Results		Standard*
		10:39 hrs.	14:05 hrs.	
1. Temperature	°C	23.7	23.9	24.0 -26.0
2. Relative Humidity	%RH	75.6	73.1	<70
3. Carbon dioxide (CO ₂)	ppm	51(533)	26(456)	700 above outdoor
4. Carbon monoxide (CO)	ppm	3.3	0.0	<9
5. Formaldehyde	ppm	0.00	0.00	<0.1
6. Ozone	ppm	0.00	0.00	<0.1
7. Total VOCs	ppm	0.00	0.00	<3
8. Particulate matter less than 2.5 micron (PM-2.5)	µg/m ³	8.95	8.60	<35
9. Particulate matter less than 10 micron (PM-10)	µg/m ³	34.59	29.24	<50
10. Total Bacteria (Airborne)	CFU/m ³	70		<500
11. Yeast & Mold (Airborne)	CFU/m ³	10		<500

Remark: - Outdoor on October 14, 2022; Temperature is 29.2 °C, Relative Humidity is 61.9 %RH and Carbon dioxide is 482 ppm.
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Analysis Report

SAMPLE DESIGNATED AS : Indoor Air Quality **SAMPLING DATE:** October 14, 2022
SAMPLING LOCATION : Buffet line of restaurant on 4th Floor at Hyatt Regency Bangkok

Parameters	Units	Results		Standard*
		10:26 hrs.	13:58 hrs.	
1. Temperature	°C	23.9	23.1	24.0 -26.0
2. Relative Humidity	%RH	71.5	73.3	<70
3. Carbon dioxide (CO ₂)	ppm	108(590)	15(467)	700 above outdoor
4. Carbon monoxide (CO)	ppm	0.0	3.2	<9
5. Formaldehyde	ppm	0.00	0.00	<0.1
6. Ozone	ppm	0.00	0.00	<0.1
7. Total VOCs	ppm	0.00	0.00	<3
8. Particulate matter less than 2.5 micron (PM-2.5)	µg/m ³	12.77	8.95	<35
9. Particulate matter less than 10 micron (PM-10)	µg/m ³	35.65	38.90	<50
10. Total Bacteria (Airborne)	CFU/m ³	130		<500
11. Yeast & Mold (Airborne)	CFU/m ³	Not Detected		<500

Remark: - Outdoor on October 14, 2022; Temperature is 29.2 °C, Relative Humidity is 61.9 %RH and Carbon dioxide is 482 ppm.
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Analysis Report

SAMPLE DESIGNATED AS : Indoor Air Quality
SAMPLING LOCATION : Ballroom on 5th Floor at Hyatt Regency Bangkok
SAMPLING DATE: October 14, 2022

Parameters	Units	Results		Standard*
		11:10 hrs.	14:30 hrs.	
1. Temperature	°C	25.7	25.4	24.0 -26.0
2. Relative Humidity	%RH	68.0	67.3	<70
3. Carbon dioxide (CO ₂)	ppm	21(461)	6(476)	700 above outdoor
4. Carbon monoxide (CO)	ppm	0.0	3.5	<9
5. Formaldehyde	ppm	0.00	0.00	<0.1
6. Ozone	ppm	0.00	0.00	<0.1
7. Total VOCs	ppm	0.00	0.00	<3
8. Particulate matter less than 2.5 micron (PM-2.5)	µg/m ³	9.81	11.82	<35
9. Particulate matter less than 10 micron (PM-10)	µg/m ³	38.28	41.81	<50
10. Total Bacteria (Airborne)	CFU/m ³	70		<500
11. Yeast & Mold (Airborne)	CFU/m ³	40		<500

Remark: - Outdoor on October 14, 2022; Temperature is 29.2 °C, Relative Humidity is 61.9 %RH and Carbon dioxide is 482 ppm.
Source: * Code of Practice for Indoor air quality for air-conditioned building; Singapore Standard SS 554:2009



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Analysis Report

SAMPLE DESIGNATED AS : Indoor Air Quality
SAMPLING LOCATION : 27th Floor at Hyatt Regency Bangkok

SAMPLING DATE: October 14, 2022

Parameters	Units	Results		Standard*
		10:55 hrs.	14:30 hrs.	
1. Temperature	°C	24.8	25.4	24.0 -26.0
2. Relative Humidity	%RH	68.9	67.9	<70
3. Carbon dioxide (CO ₂)	ppm	46(528)	31(451)	700 above outdoor
4. Carbon monoxide (CO)	ppm	0.0	3.8	<9
5. Formaldehyde	ppm	0.00	0.00	<0.1
6. Ozone	ppm	0.00	0.00	<0.1
7. Total VOCs	ppm	0.00	0.00	<3
8. Particulate matter less than 2.5 micron (PM-2.5)	µg/m ³	10.84	9.87	<35
9. Particulate matter less than 10 micron (PM-10)	µg/m ³	82.55	43.54	<50
10. Total Bacteria (Airborne)	CFU/m ³	90		<500
11. Yeast & Mold (Airborne)	CFU/m ³	Not Detected		<500

Remark: - Outdoor on October 14, 2022; Temperature is 29.2 °C, Relative Humidity is 61.9 %RH and Carbon dioxide is 482 ppm.

Source: * Code of Practice for Indoor air quality for air-conditioned building; Singapore Standard SS 554:2009



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