



Test Report

No.: AJT200408029E

Applicant name	: MICRON VIEW LIMITED
Applicant address	: SUITE 1, 3RD FLOOR, 11-12 ST. JAMES'S SQUARE, LONDON, SW1Y 4LB, UNITED KINGDOM
Manufacturer name	: MICRON VIEW LIMITED
Manufacturer address	: SUITE 1, 3RD FLOOR, 11-12 ST. JAMES'S SQUARE, LONDON, SW1Y 4LB, UNITED KINGDOM
Sample Description	: BIOAEROSOL MONITORING SYSTEM
Model No.	: M110
FCC ID	: 2AV6V-M110
Sample received date	: 08 April 2020
Testing completed date	: 11 April 2020

Tests conducted: For compliance with application, refer to attached page(s) for details.

Test requested:	Conclusion
47 CFR Part 18: 2019	PASS

Tested by: Bob

Reviewed by: Fly Liang

Approved by:

Position: Technical Supervisor

Date: 2020-04-11



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1 Test Standards

The tests were performed according to following standards:
47 CFR Part 18: 2019 - Industrial, Scientific, And Medical Equipment
FCC MP-5:1986 - FCC Methods of Measurements of Radio Noise Emissions from Industrial, Scientific, and Medical equipment

2 Summary

2.1 General remarks

Date of receipt of test sample	08 April 2020
Testing commenced on	08 April 2020 ---- 11 April 2020
Testing concluded on	11 April 2020

2.2 Final assessment

Test content:	Assessment
The EMC requirements pertaining to the technical standards and tested operation modes are	Fulfilled
The equipment under test	Fulfilled the EMC requirements

3 General Test Information

3.1 Details of EUT

Power supply voltage	DC: Li-ion Battery pack*2 / (10.8V*2) 11.6V
	AC: 120V/60Hz
Number of tested samples	1
Model number	M110

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3.2 Accessories of EUT

Description of Accessories	Manufacturer	Model number	Description	Other
Li-ion Battery Pack	MICRONVIEW	MV1498920	--	--

3.3 Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	Other
AC/DC MEDICAL ADAPTOR	MEAN WELL	GSM90A24	--	--

3.4 EUT operation mode

The equipment under test was operated during the measurement under the following conditions:				
Operating Mode	Work by DC power supply (Li-ion Battery)			
	Work by AC power supply			
Emissions tests	According to 47 CFR Part 18 searching for the highest disturbance.			

4 Test Environment

4.1 Address of the test laboratory

Test site:	1F&2F YIFENG BUILDING, CHENGHUA INDUSTRIAL ZONE, CHENGHAI DISTRICT, SHANTOU CITY
Tel:	86-754-85860999
Fax:	86-754-86984098

4.2 Test facility

The test facility is recognized, certified, or accredited by the following organizations:	
CNAS Accreditation NO.:	L4735
A2LA Accreditation NO.:	5443.01
Designation Number:	CN1263
Test Firm Registration Number:	127385
Industry Canada site registration number:	25345

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4.3 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:	
Temperature:	15~35 °C
Humidity:	25~75 %
Atmospheric pressure:	86~106 kPa

4.4 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the AJT quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

4.5 Measurement uncertainty

Test Item	Frequency Range	Uncertainty	Note
Conduction emission	150kHz~30MHz	±2.14dB	(1)
Radiation emission (3m)	9kHz~30MHz	±3.32dB	(1)
Radiation emission (3m)	30MHz~1000MHz	±4.88dB	(1)
Radiation emission (3m)	Above 1GHz	±4.65dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

4.6 Test description

4.6.1 Description of Standards and Results

EMISSION			
Description of Test Item	Standard	Limits	Results
Conducted emission	47 CFR Part 18	18.307(b)	PASS
Radiated emission	47 CFR Part 18	18.305(b)	PASS
Remark: N/A is an abbreviation for Not Applicable.			

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5 Test Conditions and Results

5.1 Conducted Emission

5.1.1 Test location

Test location:	Shielding Room
Test Condition	Temperature: 21°C; Humidity: 69%RH

5.1.2 Test Limits of Conducted emission

(b) All other part 18 consumer devices:

Frequency of emission (MHz)	Conducted limit (dB μ V)	Conducted limit (dB μ V)
	Quasi-peak	Quasi-peak
0.15-0.5	66 to 56*	66 to 56*
0.5-5	56	56
5-30	60	60

*Decreases with the logarithm of the frequency

5.1.3 Test Instruments

For test instruments and accessories used see section 6 part 6.1

5.1.4 Test Procedure

According to the FCC MP-5:1986.

Tabletop and their ancillary devices are placed on a nonconducting table with nominal dimension of 1.0 m by 1.5 m, height 0.8 m above the ground plane. The EUT is centered laterally (left to right facing the tabletop) on the tabletop and its rear is flush with the rear of the table. Accessories or peripherals that are part of a system tested on a tabletop are being placed in a test arrangement on one or both sides of the host with a 10 cm separation between the nearest points of the cabinets.

Interconnecting cables that hang closer than 40 cm to the ground plane are folded back and forth in the center forming a bundle 30 cm to 40 cm long.

The EUT's AC mains or the EUT's AC/DC adaptor is connected to a LISN. Ancillaries having an AC mains connector are connected to a separate LISN.

The measurement receiver is connected to the 50 Ω RF port of the LISN.

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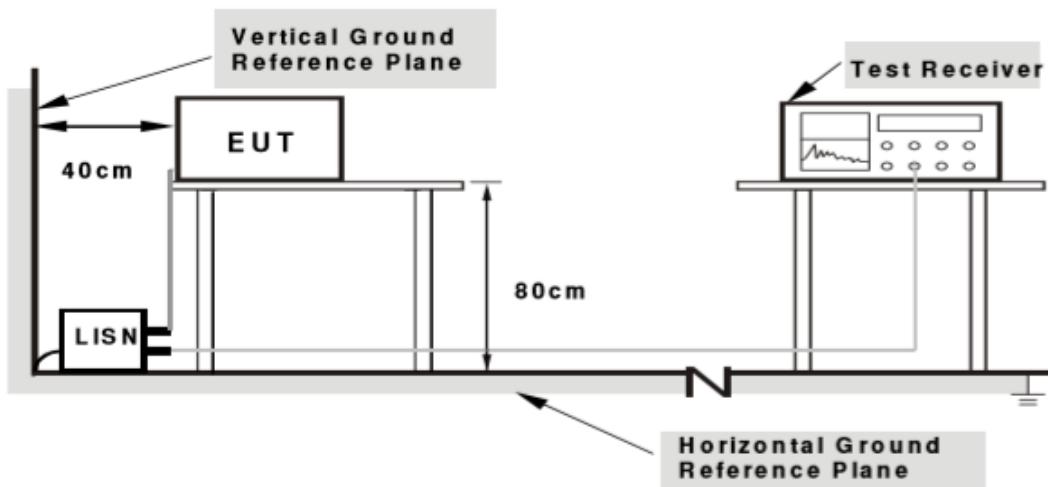
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5.1.5 Test Setup



5.1.6 Test result

The requirements are	Fulfilled
Band width	9kHz
Frequency range	150 kHz ~ 30 MHz
Min. limit margin	>21.87 dB at 150 kHz - 30 MHz (QP) >16.61 dB at 150 kHz - 30 MHz (Average)

Remarks: The limits are kept. For detailed results, please see the following page(s).

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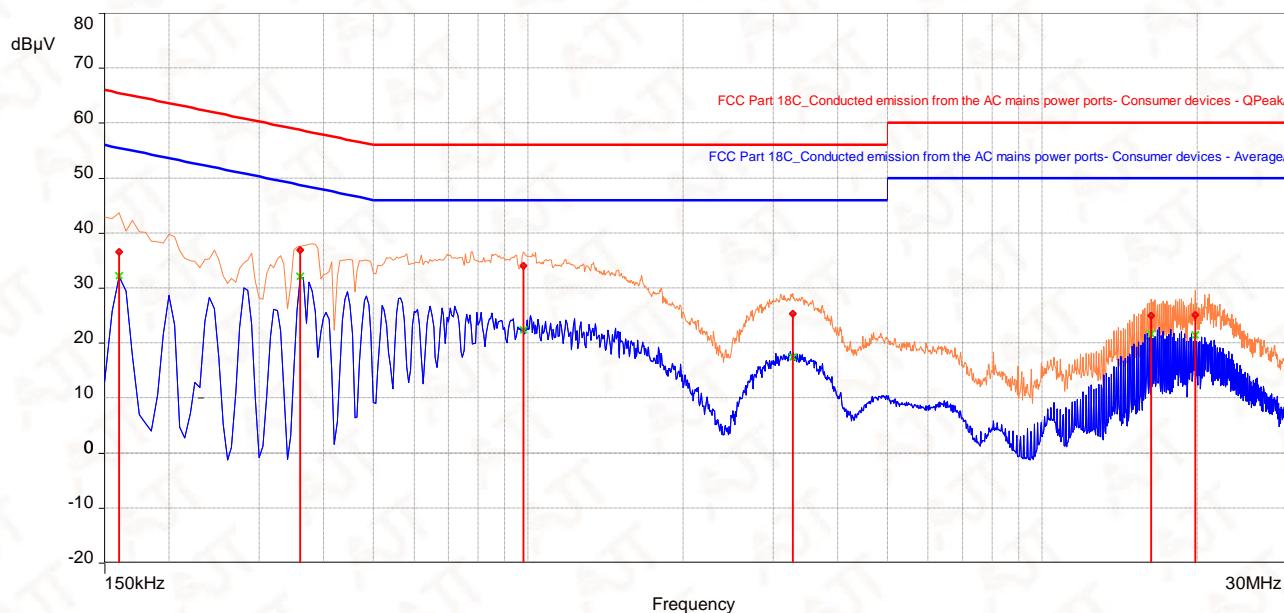


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5.1.6.1 Line

EUT	BioAerosol Monitoring System
Operating Condition	AC power supply 120V & 60Hz
Phase	Line
Operation mode	Work by AC power supply
Result	Pass



Frequency (MHz)	Peak (dB μ V)	QP (dB μ V)	QP Limit (dB μ V)	QP Margin (dB)	Avg (dB μ V)	Avg Limit (dB μ V)	Avg Margin (dB)	Pos.	Correction (dB)
0.16	44.23	36.51	65.46	28.96	32.20	55.46	23.27	Line	10.31
0.36	38.27	36.86	58.73	21.87	32.12	48.73	16.61	Line	10.28
0.98	36.73	33.97	56.00	22.03	22.38	46.00	23.62	Line	10.33
3.275	28.81	25.35	56.00	30.65	17.37	46.00	28.63	Line	10.52
16.295	28.80	24.96	60.00	35.04	21.63	50.00	28.37	Line	10.89
19.835	29.02	25.08	60.00	34.92	21.46	50.00	28.54	Line	11.04

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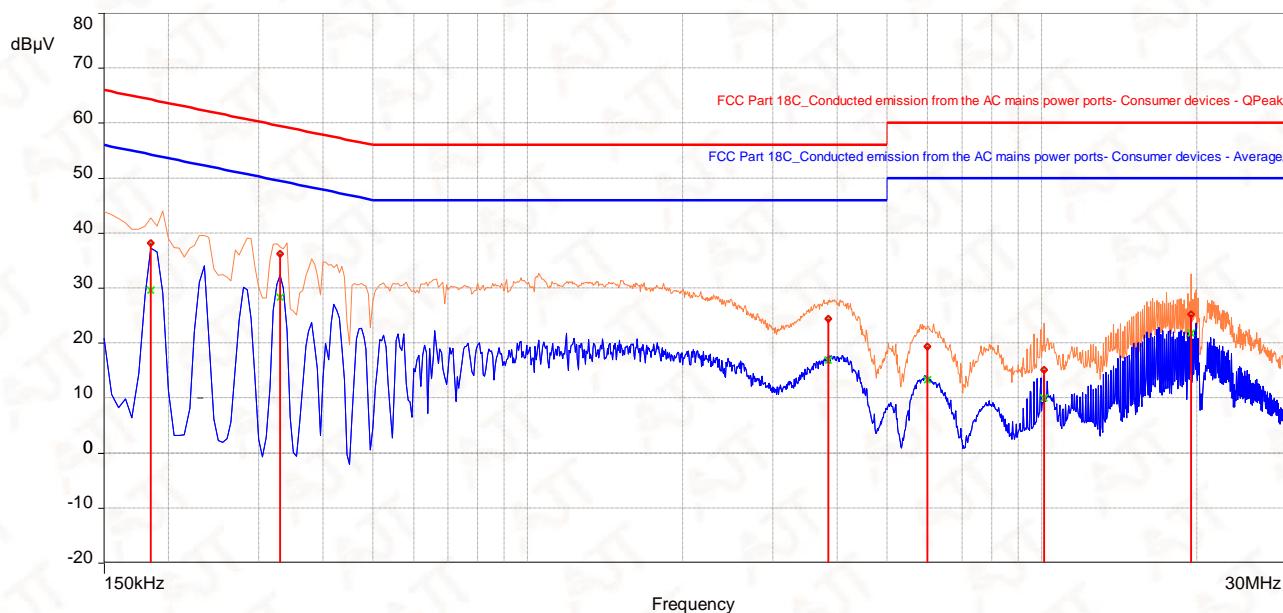


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5.1.6.2 Neutral

EUT	BioAerosol Monitoring System
Operating Condition	AC power supply 120V & 60Hz
Phase	Neutral
Operation mode	Work by AC power supply
Result	Pass



Frequency (MHz)	Peak (dB μ V)	QP (dB μ V)	QP Limit (dB μ V)	QP Margin (dB)	Avg (dB μ V)	Avg Limit (dB μ V)	Avg Margin (dB)	Pos.	Correction (dB)
0.185	46.07	38.20	64.26	26.05	29.54	54.26	24.72	Neutral	10.28
0.33	38.57	36.16	59.45	23.29	28.28	49.45	21.17	Neutral	10.27
3.85	27.70	24.41	56.00	31.59	16.78	46.00	29.22	Neutral	10.59
5.985	23.41	19.29	60.00	40.71	13.22	50.00	36.78	Neutral	10.69
10.1	20.92	15.15	60.00	44.85	9.99	50.00	40.01	Neutral	10.58
19.54	29.35	25.22	60.00	34.78	21.77	50.00	28.23	Neutral	11.15

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5.2 Operating Frequency

5.2.1 Description of the test location

Test location:	3m Semi-Anechoic chamber
Test Condition	Temperature: 21°C; Humidity: 57%RH

5.2.2 Test Limits of Radiated emission

ISM equipment may be operated on any frequency above 9 kHz except as indicated in §18.303. The following frequency bands, in accordance with §2.106 of the rules, are allocated for use by ISM equipment:

ISM frequency	Tolerance
6.78 MHz	±15.0 kHz
13.56 MHz	±7.0 kHz
27.12 MHz	±163.0 kHz
40.68 MHz	±20.0 kHz
915 MHz	±13.0 MHz
2,450 MHz	±50.0 MHz
5,800 MHz	±75.0 MHz
24,125 MHz	±125.0 MHz
61.25 GHz	±250.0 MHz
122.50 GHz	±500.0 MHz
245.00 GHz	±1.0 GHz

5.2.4 Test Instruments

For test instruments and accessories used see section 6 part 6.2.

5.2.5 Test result

EUT	BioAerosol Monitoring System
The requirements are	Fulfilled
ISM Frequency	2450MHz
Tolerance	±50MHz
Band width	1MHz RBW

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5.3 Radiated Emission

5.3.1 Description of the test location

Test location:	3m Semi-Anechoic chamber
Test Condition	Temperature: 21°C; Humidity: 57%RH

5.3.2 Test Limits of Radiated emission

(b) The field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following:

Equipment	Operating frequency	RF Power generated by equipment (watts)	Field strength limit (uV/m)	Distance (meters)
Any type unless otherwise specified (miscellaneous)	Any ISM frequency	Below 500 500 or more	25 $25 \times \text{SQRT}(\text{power}/500)$	300 1300
	Any non-ISM frequency	Below 500 500 or more	15 $15 \times \text{SQRT}(\text{power}/500)$	300 1300
Industrial heaters and RF stabilized arc welders	On or below 5,725 MHz Above 5,725 MHz	Any Any	10 (2)	1,600 (2)
Medical diathermy	Any ISM frequency Any non-ISM frequency	Any Any	25 15	300 300
Ultrasonic	Below 490 kHz	Below 500 500 or more	$2,400/F(\text{kHz})$ $2,400/F(\text{kHz}) \times \text{SQRT}(\text{power}/500)$	300 3300
	490 to 1,600 kHz Above 1,600 kHz	Any Any	24,000/F(kHz) 15	30 30
Induction cooking ranges	Below 90 kHz On or above 90 kHz	Any Any	1,500 300	430 430

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1 Field strength may not exceed 10 μ V/m at 1600 meters. Consumer equipment operating below 1000 MHz is not permitted the increase in field strength otherwise permitted here for power over 500 watts.

2 Reduced to the greatest extent possible.

3 Field strength may not exceed 10 μ V/m at 1600 meters. Consumer equipment is not permitted the increase in field strength otherwise permitted here for over 500 watts.

4 Induction cooking ranges manufactured prior to February 1, 1980, shall be subject to the field strength limits for miscellaneous ISM equipment.

* Test Limits conversion for Any type unless otherwise specified (miscellaneous) in 3m Semi-Anechoic Chamber:

Operating Frequency (MHz)	Measurement distance at 300 meters		Measurement distance at 3 meters
	μ V/m	dB μ V/m	dB μ V/m
Any ISM	25	27.96	67.96
Any non-ISM	15	23.52	63.52

5.3.3 Frequency range of measurements

Frequency band in which device operates (MHz)	Range of frequency measurements	
	Lowest frequency	Highest frequency
Below 1.705	Lowest frequency generated in the device, but not lower than 9 kHz	30 MHz.
1.705 to 30	Lowest frequency generated in the device, but not lower than 9 kHz	400 MHz.
30 to 500	Lowest frequency generated in the device or 25 MHz, whichever is lower	Tenth harmonic or 1,000 MHz, whichever is higher.
500 to 1,000	Lowest frequency generated in the device or 100 MHz, whichever is lower	Tenth harmonic.
Above 1,000do	Tenth harmonic or highest detectable emission.

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5.3.4 Test Instruments

For test instruments and accessories used see section 6 part 6.2.

5.3.5 Test Procedure

- a. The EUT was placed on the top of a rotating table 1 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source or receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to AVG Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode. and found the X axis positioning which it is worse case.
- i. Repeat above procedures until all frequencies measured was complete.

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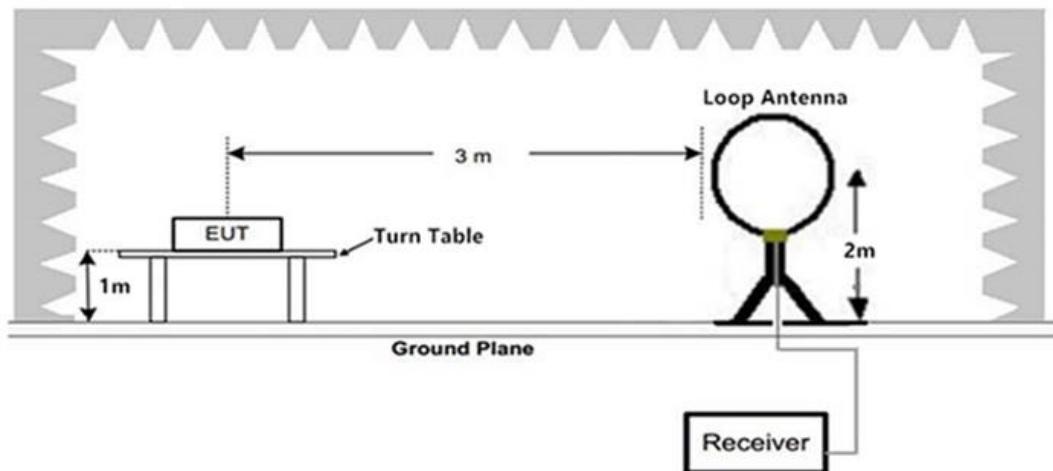


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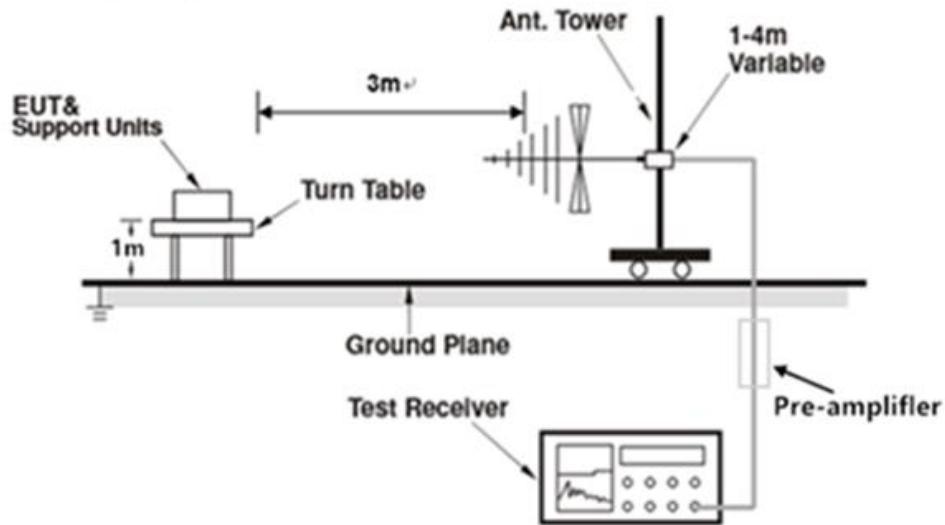
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5.3.6 Test Setup

<Frequency Range below 30MHz>



<Frequency Range 30MHz-1GHz>



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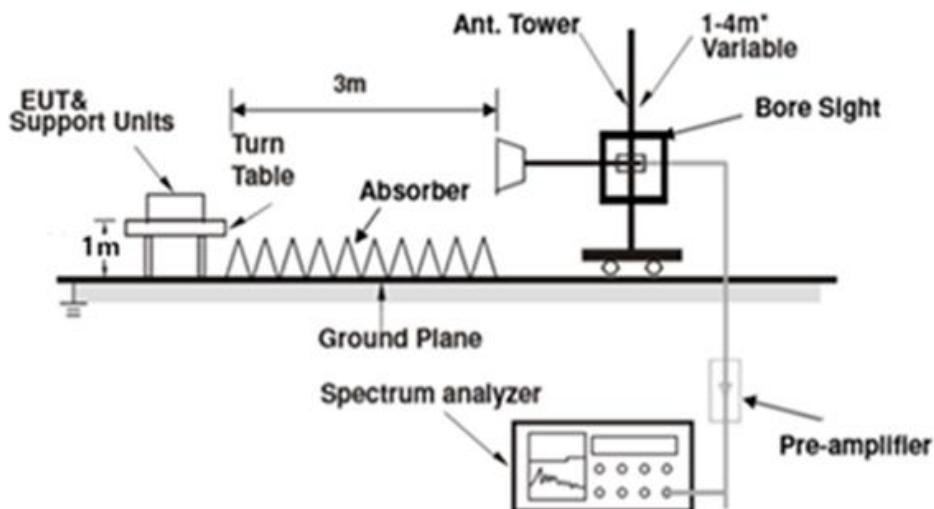
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<Frequency Range above 1GHz>



5.3.7 Test result

EUT	BioAerosol Monitoring System
The requirements are	Fulfilled
Band width	200Hz RBW (9kHz~150kHz) & 9kHz RBW (150kHz-30MHz) & 100kHz RBW (30MHz~1000MHz) & 1MHz RBW (1GHz~26.5GHz)
Frequency range	9kHz~26.5GHz
Min. limit margin	> 17.70 dB at 9kHz~26.5GHz

Remarks: The limits are kept. For detailed results, please see the following page(s).

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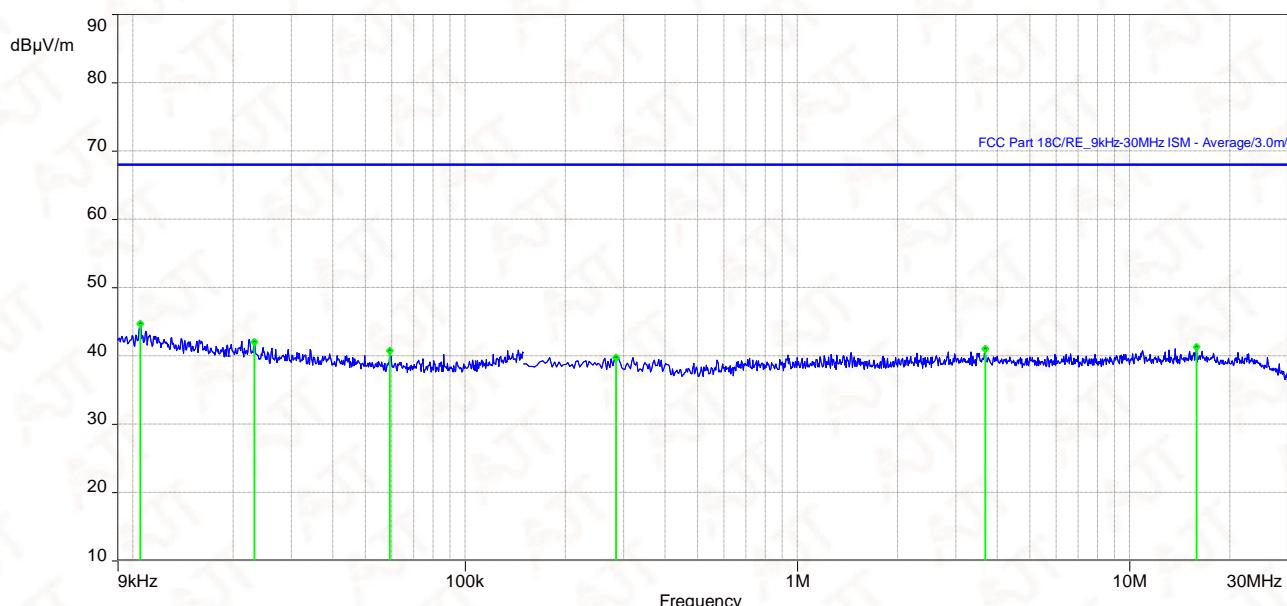


Test Report

No.: AJT200408029E

5.3.7.1 Test result _Work by DC power supply

EUT	BioAerosol Monitoring System
Operating Condition	DC: Li-ion Battery pack*2 / (10.8V*2) 21.6V
Frequency range	9kHz ~ 30MHz
Test polarization	Horizontal
Operation mode	Work by DC power supply (Li-ion Battery)
Result	Pass



Frequency (MHz)	Detector	Avg. (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)
0.0105087	Average	44.67	67.96	23.29	2.00	164.00	Horizontal	23.22
0.0231705	Average	42.07	67.96	25.89	2.00	261.00	Horizontal	22.50
0.0593793	Average	40.76	67.96	27.20	2.00	270.00	Horizontal	22.01
0.284325	Average	39.69	67.96	28.27	2.00	1.00	Horizontal	24.09
3.6723	Average	41.03	67.96	26.93	2.00	306.00	Horizontal	24.62
15.913785	Average	41.33	67.96	26.63	2.00	180.00	Horizontal	24.76

Note:

1. Avg. is abbreviations of Average
2. Emission Level = Read Level + Correction Factor
3. Correction Factor = Antenna Factor + Cable Loss - Preamplifier Gain
4. Margin = Limit Value - Emission Level

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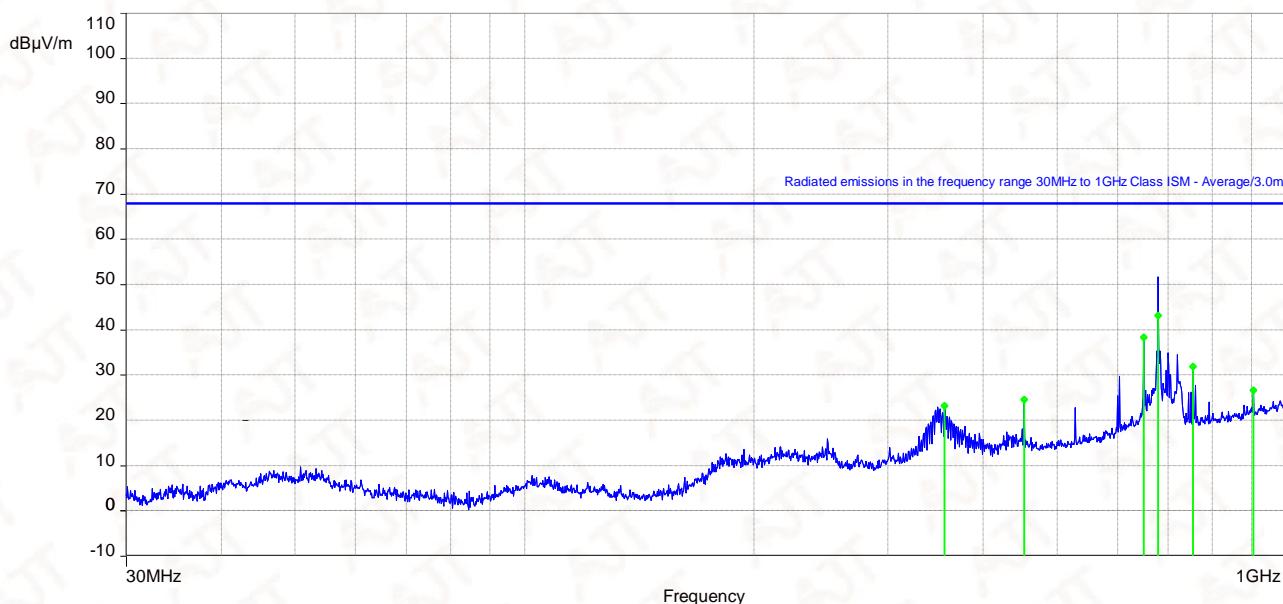




Test Report

No.: AJT200408029E

EUT	BioAerosol Monitoring System
Operating Condition	DC: Li-ion Battery pack*2 / (10.8V*2) 21.6V
Frequency range	30MHz~1000MHz
Test polarization	Horizontal
Operation mode	Work by DC power supply (Li-ion Battery)
Result	Pass



Frequency (MHz)	Detector	Avg. (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)
355.9685	Average	23.18	67.96	44.78	1.00	189.00	Horizontal	-9.79
452.5805	Average	24.56	67.96	43.40	1.99	76.00	Horizontal	-6.88
650.024	Average	38.30	67.96	29.66	1.00	180.00	Horizontal	-3.02
678.8575	Average	43.12	67.96	24.84	1.04	184.00	Horizontal	-2.49
754.299	Average	31.90	67.96	36.06	1.00	176.00	Horizontal	-0.94
905.1825	Average	26.59	67.96	41.37	1.99	216.00	Horizontal	1.35

Note:

1. Avg. is abbreviations of Average
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3. Correction Factor = Antenna Factor + Cable Loss - Preamplifier Gain
4. Margin = Limit Value - Emission Level

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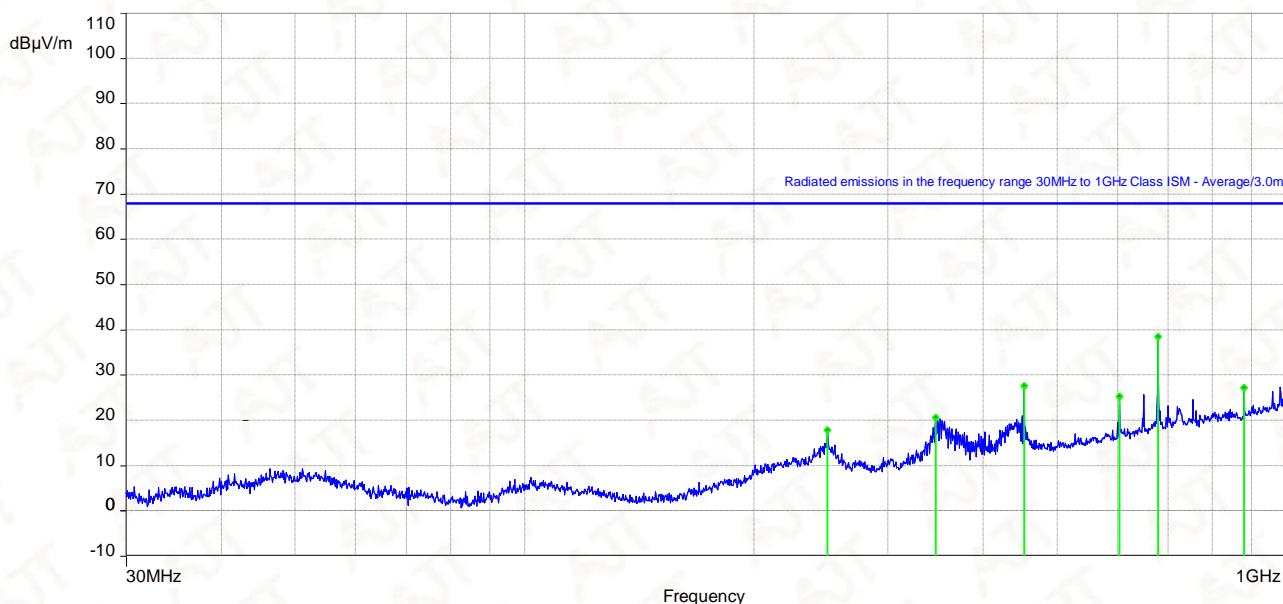




Test Report

No.: AJT200408029E

EUT	BioAerosol Monitoring System
Operating Condition	DC: Li-ion Battery pack*2 / (10.8V*2) 21.6V
Frequency range	30MHz ~ 1000MHz
Test polarization	Vertical
Operation mode	Work by DC power supply (Li-ion Battery)
Result	Pass



Frequency (MHz)	Detector	Avg. (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)
249.996	Average	17.74	67.96	50.22	2.00	117.00	Vertical	-11.99
346.414	Average	20.51	67.96	47.45	1.01	217.00	Vertical	-9.85
452.5805	Average	27.62	67.96	40.34	1.01	217.00	Vertical	-6.93
603.464	Average	25.22	67.96	-42.74	1.01	77.00	Vertical	-4.07
678.833	Average	38.47	67.96	-29.49	1.01	322.00	Vertical	-2.48
880.011	Average	27.10	67.96	-40.86	1.01	186.00	Vertical	0.98

Note:

1. Avg. is abbreviations of Average
2. Emission Level = Read Level + Correction Factor
3. Correction Factor = Antenna Factor + Cable Loss - Preamplifier Gain
4. Margin = Limit Value - Emission Level

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Test Report

No.: AJT200408029E

EUT	BioAerosol Monitoring System							
Operating Condition	DC: Li-ion Battery pack*2 / (10.8V*2) 21.6V							
Frequency range	1GHz ~ 26.5GHz							
Test polarization	Horizontal							
Operation mode	Work by DC power supply (Li-ion Battery)							
Result	Pass							

Frequency (MHz)	Detector	Avg. (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)
4853.9	Average	50.47	67.96	17.49	1.00	113.00	Horizontal	1.66
7414.1	Average	52.80	67.96	15.16	1.00	329.00	Horizontal	10.39
9707.4	Average	49.47	67.96	18.49	1.00	138.00	Horizontal	13.21

Note:

1. Avg. is abbreviations of Average
2. Emission Level = Read Level + Correction Factor
3. Correction Factor = Antenna Factor + Cable Loss - Preamplifier Gain
4. Margin = Limit Value - Emission Level

EUT	BioAerosol Monitoring System							
Operating Condition	DC: Li-ion Battery pack*2 / (10.8V*2) 21.6V							
Frequency range	1GHz ~ 26.5GHz							
Test polarization	Vertical							
Operation mode	Work by DC power supply (Li-ion Battery)							
Result	Pass							

Frequency (MHz)	Detector	Avg. (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)
4853.9	Average	41.65	67.96	26.31	2.00	227.00	Vertical	1.48
7341	Average	49.45	67.96	18.51	2.00	111.00	Vertical	10.29

Note:

1. Avg. is abbreviations of Average
2. Emission Level = Read Level + Correction Factor
3. Correction Factor = Antenna Factor + Cable Loss - Preamplifier Gain
4. Margin = Limit Value - Emission Level

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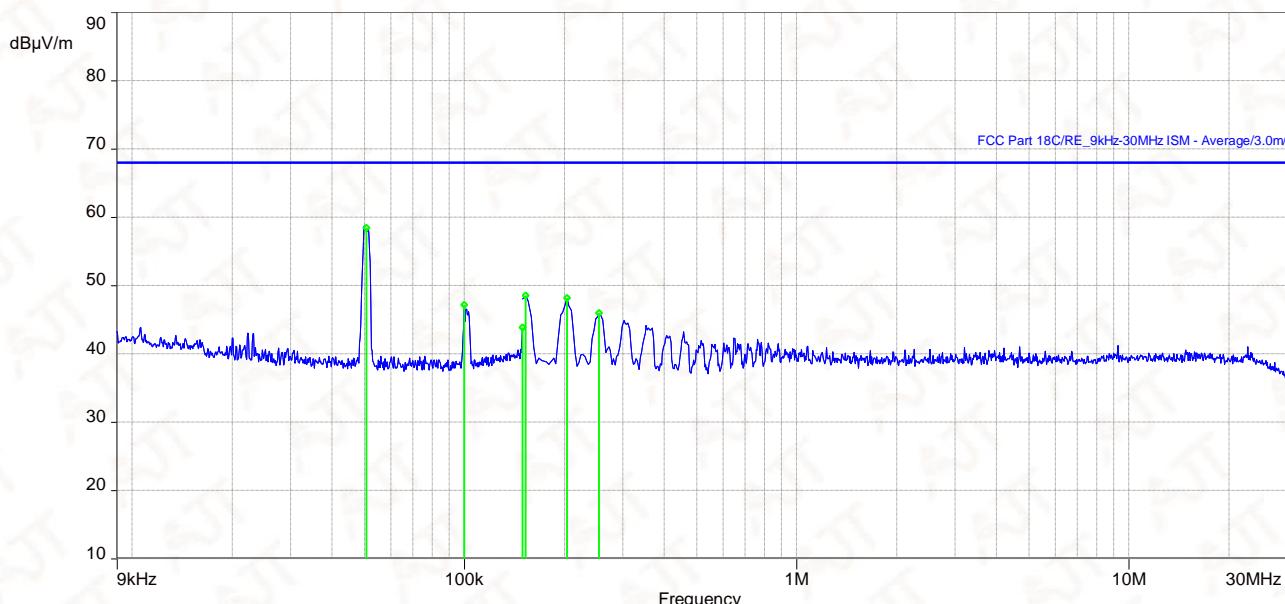


Test Report

No.: AJT200408029E

5.3.7.2 Test result _Work by AC power supply

EUT	BioAerosol Monitoring System
Operating Condition	AC power supply (120V & 60Hz)
Frequency range	9kHz ~ 30MHz
Test polarization	Horizontal
Operation mode	Work by AC power supply
Result	Pass



Frequency (MHz)	Detector	Avg. (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)
0.0507783	Average	58.42	67.96	9.54	2.00	231.00	Horizontal	22.05
0.0999168	Average	47.20	67.96	20.76	2.00	248.00	Horizontal	22.05
0.15	Average	43.86	67.96	24.10	2.00	76.00	Horizontal	23.85
0.152985	Average	48.57	67.96	19.39	2.00	235.00	Horizontal	23.86
0.20373	Average	48.19	67.96	19.77	2.00	237.00	Horizontal	24.07
0.254475	Average	45.97	67.96	21.99	2.00	95.00	Horizontal	24.23

Note:

1. Avg. is abbreviations of Average
2. Emission Level = Read Level + Correction Factor
3. Correction Factor = Antenna Factor + Cable Loss - Preamplifier Gain
4. Margin = Limit Value - Emission Level

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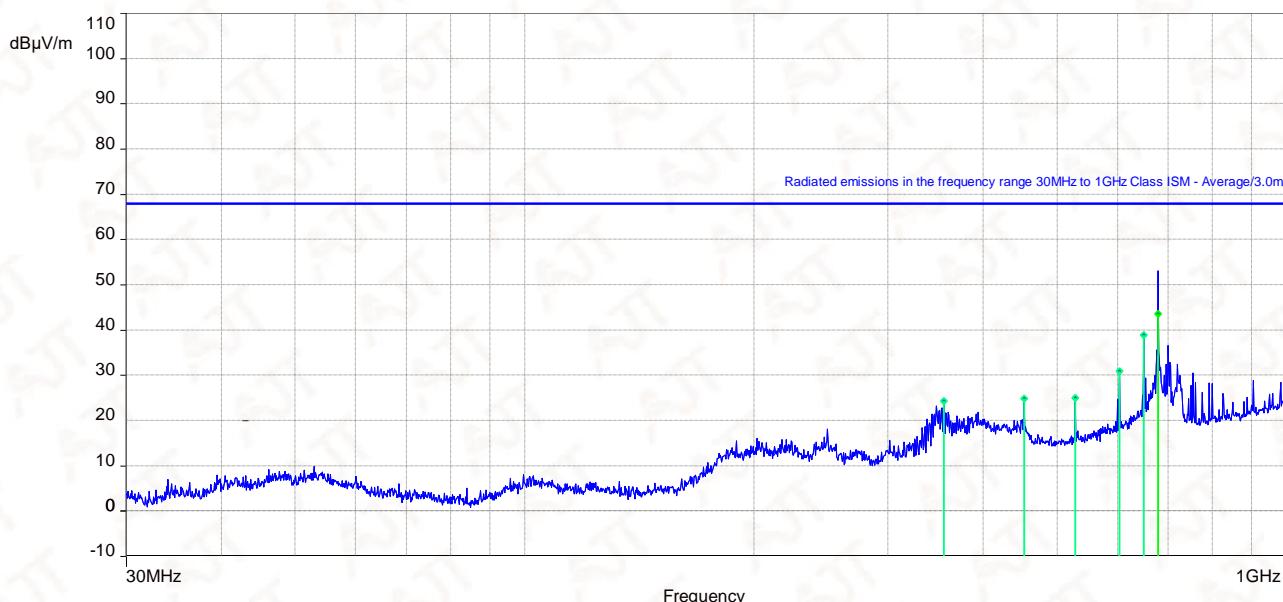




Test Report

No.: AJT200408029E

EUT	BioAerosol Monitoring System
Operating Condition	AC power supply (120V & 60Hz)
Frequency range	30MHz ~ 1000MHz
Test polarization	Horizontal
Operation mode	Work by AC power supply
Result	Pass



Frequency (MHz)	Detector	Avg. (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)
355.047	Average	24.29	67.96	43.67	1.00	178.00	Horizontal	-9.75
452.5805	Average	24.81	67.96	43.15	1.99	160.00	Horizontal	-6.88
527.998	Average	25.02	67.96	42.94	1.00	191.00	Horizontal	-5.69
603.464	Average	30.92	67.96	37.04	1.00	152.00	Horizontal	-3.97
650.024	Average	38.83	67.96	29.13	1.00	187.00	Horizontal	-3.02
678.833	Average	43.48	67.96	24.48	1.00	197.00	Horizontal	-2.50

Note:

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2. Emission Level = Read Level + Correction Factor
3. Correction Factor = Antenna Factor + Cable Loss - Preamplifier Gain
4. Margin = Limit Value - Emission Level

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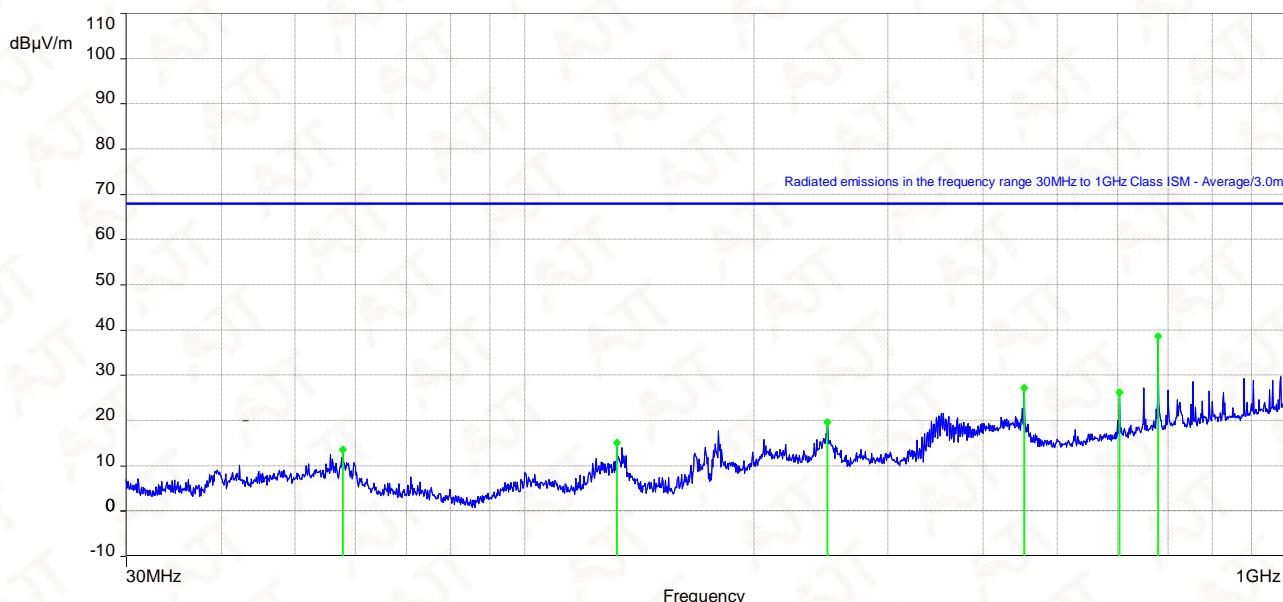




Test Report

No.: AJT200408029E

EUT	BioAerosol Monitoring System
Operating Condition	AC power supply (120V & 60Hz)
Frequency range	30MHz ~ 1000MHz
Test polarization	Vertical
Operation mode	Work by AC power supply
Result	Pass



Frequency (MHz)	Detector	Avg. (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)
57.7905	Average	13.55	67.96	54.41	1.02	208.00	Vertical	-13.55
132.238	Average	15.01	67.96	52.95	1.02	305.00	Vertical	-17.63
249.996	Average	19.57	67.96	48.39	2.00	112.00	Vertical	-11.99
452.5805	Average	27.20	67.96	40.76	1.02	212.00	Vertical	-6.93
603.464	Average	26.19	67.96	41.77	1.02	112.00	Vertical	-4.07
678.833	Average	38.63	67.96	29.33	1.02	305.00	Vertical	-2.48

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3. Correction Factor = Antenna Factor + Cable Loss - Preamplifier Gain
4. Margin = Limit Value - Emission Level

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Test Report

No.: AJT200408029E

EUT	BioAerosol Monitoring System							
Operating Condition	AC power supply (120V & 60Hz)							
Frequency range	1GHz ~ 26.5GHz							
Test polarization	Horizontal							
Operation mode	Work by AC power supply							
Result	Pass							

Frequency (MHz)	Detector	Avg. (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)
4853.9	Average	43.29	67.96	24.67	1.99	20.00	Horizontal	1.66
7386.9	Average	56.67	67.96	11.29	1.00	164.00	Horizontal	10.38

Note:

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2. Emission Level = Read Level + Correction Factor
3. Correction Factor = Antenna Factor + Cable Loss - Preamplifier Gain
4. Margin = Limit Value - Emission Level

EUT	BioAerosol Monitoring System							
Operating Condition	AC power supply (120V & 60Hz)							
Frequency range	1GHz ~ 26.5GHz							
Test polarization	Vertical							
Operation mode	Work by AC power supply							
Result	Pass							

Frequency (MHz)	Detector	Avg. (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)
4853.9	Average	42.10	67.96	25.86	1.01	75.00	Vertical	1.48
7342.7	Average	46.05	67.96	21.91	1.01	193.00	Vertical	10.29

Note:

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4. Margin = Limit Value - Emission Level

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Test Report

No.: AJT200408029E

6 Used Test Equipment

6.1					
Conducted emission					
Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	ROHDE&SCHWARZ	ESR3	102452	2019/07/15	2020/07/15
Line Impedance Stabilization Network	SCHWARZBECK	NSLK 8127 RC 05040	8127-RC 05040	2019/05/31	2020/05/31
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N00359	9561-F N00359	2020/03/28	2021/03/28
BAT-EMC(Software)	NEXIO	3.16.0.74	N/A	N/A	N/A
Temperature And Humidity Indicator	JianDaRenKe	Cos-03	0612057	2019/07/31	2020/07/31
6.2					
Radiated emission					
Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	ROHDE&SCHWARZ	ESR3	102452	2019/07/15	2020/07/15
Spectrum Analyzer	Keysight	N9010A	MY511200 99	2019-07-17	2020-07-17
Active loop antenna	BeiJing DaZe	ZN30900C	15015	2020/03/30	2021/03/30
Trilog Broadband Antenna	SCHWARZBECK	VULB 9163	9163-1127	2019/06/04	2020/06/04
Horn Antenna	SCHWARZBECK	BBHA 9120D	01829	2019/06/04	2020/06/04
Broadband Amplifier	SCHWARZBECK	BBV 9743B	9743B-00067	2020/03/28	2021/03/28
Broadband Amplifier	SCHWARZBECK	BBV 9718B	9743B-00002	2020/03/28	2021/03/28
BAT-EMC(Software)	NEXIO	3.16.0.74	N/A	N/A	N/A
Temperature And Humidity Indicator	JianDaRenKe	Cos-03	0612057	2019/07/31	2020/07/31
Double Ridge Guide Horn Antennas	A.H.Systems	SAS-574	588	2019/06/06	2020/06/06

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Test Report

No.: AJT200408029E

7 Manufacturer/ Approval holder Declaration

The following identical model(s):

--

Belong to the tested device:

Product description: BioAerosol Monitoring System
Model No.: M110

END OF TEST REPORT

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