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TESTING
CNAS L3193

TESTREPORT

Applicant Name : Grandstream Networks, Inc.
 Address : 126 Brookline Ave., 3rd Floor Boston, MA 02215, USA
 Report Number: SZ1220923-43585E-EM-00
 FCC ID: YZZGSC3506

Test Standard (s)

FCC Rules and Regulations Part 15 Subpart B

Sample Description

Product: SIP/Multicast Intercom Speaker
 Trade Mark: GRANDSTREAM
 Tested Model: GSC3506
 Date Received: 2022-09-23
 Date of Test: 2022-09-27to2022-09-28
 Report Date: 2022-10-08

| | |
|--------------|-------|
| Test Result: | Pass* |
|--------------|-------|

* In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Sett. Zhang

Sett.Zhang
EMC Engineer

Approved By:

Candy Li

Candy Li
EMC Engineer

Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "★".

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Test Report Declaration

Applicant : Grandstream Networks, Inc.
Manufacturer : Grandstream Networks, Inc.
Product : SIP/Multicast Intercom Speaker
Model No. : GSC3506

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart B ANSI C63.4-2014

The device described above is tested by Shenzhen Accurate Technology Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B Class B limits both radiated and conducted emissions. The measurement results are contained in this test report and Shenzhen Accurate Technology Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Shenzhen Accurate Technology Co., Ltd.

1. TEST RESULTS SUMMARY

| Test Items | Test Standard | Test Results |
|---|---------------------------------------|--------------|
| Power Line Conducted Emission (0.15-30MHz) | FCC Part 15 Subpart B, Section 15.107 | Pass |
| Radiated Emission (30-1000MHz) | FCC Part 15 Subpart B, Section 15.109 | Pass |
| Radiated Emission (Above 1GHz) | FCC Part 15 Subpart B, Section 15.109 | Pass |

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Product : SIP/Multicast Intercom Speaker

Model No. : GSC3506

Rating : DC 48V from POE

Remark(s) : The EUT's highest operating frequency is 1300MHz.

Applicant : Grandstream Networks, Inc.
Address : 126 Brookline Ave., 3rd Floor Boston, MA 02215, USA

Manufacturer : Grandstream Networks, Inc.
Address : 126 Brookline Ave., 3rd Floor Boston, MA 02215, USA

Sample Number : SZ1220923-43585E-EM-S1

2.2. Test Mode

Test Mode1: Calling
Test Mode2: Playing
Test Mode3: Alarming
Note: Test mode 3 requires 5V voltage triggering.

2.3. Accessory and Auxiliary Equipment

1. USB drive : Manufacturer: Kingston
Model: DT5064GB
2. Telephone : Manufacturer: GRANDSTREAM
Model: GXP1628
3. AC/DC Adapter(POE) : Manufacturer: Yealink
Model: YLPOE30
INPUT: 100~240V 50/60Hz 1A
OUTPUT: 48V 0.56A
(The DC line length is 1.2 meters.)
4. Adapter : Model: F06US0500060A
INPUT: 100~240V 50/60Hz 0.2A
OUTPUT: 5V 0.6A
(The DC line length is 1 meter.
Note: The adapter cannot be powered, but is only used to test the alarm mode.)
5. Laptop : Manufacturer: Lenovo
Model: T430
6. Router : Manufacturer: MERCURY
Model: MW325R
7. Network cable*4 Model: 24AWG/4PR
(The Network cable line length is 1.5 meters.)
8. Network cable*1 Model: 24AWG/4PR
(The Network cable line length is 5.0 meters.)

2.4. Description of Test Facility

- Name of Firm : Shenzhen Accurate Technology Co., Ltd.
Site Location : 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China

2.5. Measurement Uncertainty

- Conduction Emission Expanded Uncertainty : U=2.72dB, k=2
(0.15kHz-30MHz)
Radiated emission expanded uncertainty : U=4.28dB, k=2
(30MHz-1000MHz)
Radiated emission expanded uncertainty : U=4.98dB, k=2
(1GHz -18GHz)

3. MEASURING DEVICE AND TEST EQUIPMENT

3.1. For Conducted Emission Test

| Item | Equipment | Manufacturer | Model No. | Serial No. | Calibration Date | Calibration Due Date |
|------|--|-----------------|-----------|------------|------------------|----------------------|
| 1. | EMI Test Receiver | Rohde& Schwarz | ESCI | 100784 | 2021/12/13 | 2022/12/12 |
| 2. | L.I.S.N. | Rohde & Schwarz | ENV216 | 101314 | 2021/12/13 | 2022/12/12 |
| 3. | 50 Coaxial Switch | Anritsu Corp | MP59B | 6100237248 | 2021/12/13 | 2022/12/12 |
| 4. | RF Coaxial Cable | Unknown | No.17 | N0350 | 2021/12/14 | 2022/12/13 |
| 5. | Conducted Emission Test Software: e3 19821b (V9) | | | | | |

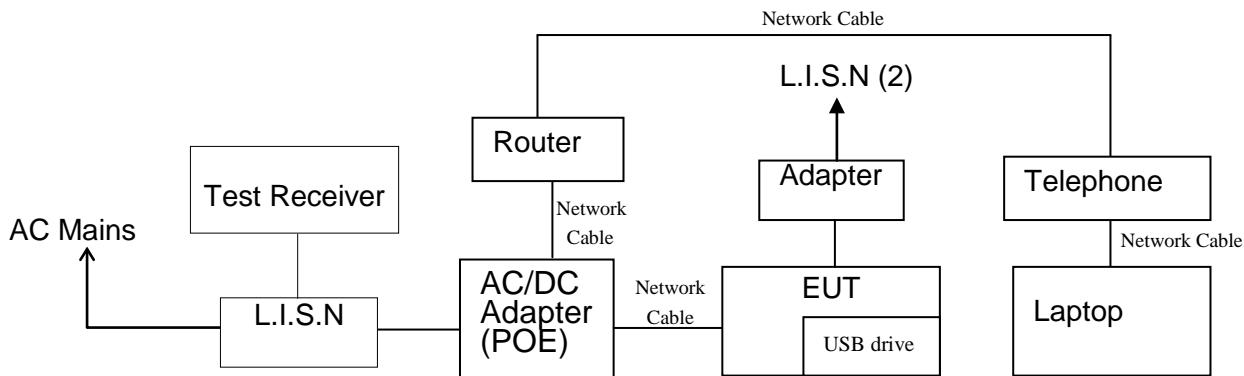
3.2. For Radiated Emission Measurement

| Item | Equipment | Manufacturer | Model No. | Serial No. | Calibration Date | Calibration Due Date |
|------|---|--------------------|-----------|------------|------------------|----------------------|
| 1. | Test Receiver | Rohde& Schwarz | ESR | 102725 | 2021/12/13 | 2022/12/12 |
| 2. | Spectrum Analyzer | Rohde&Schwarz | FSV40 | 101949 | 2021/12/13 | 2022/12/12 |
| 3. | Amplifier | SONOMA INSTRUMENT | 310 N | 186131 | 2021/11/09 | 2022/11/08 |
| 4. | Bilog Antenna | Schwarzbeck | VULB9163 | 9163-323 | 2021/07/06 | 2024/07/05 |
| 5. | Horn Antenna | Schwarzbeck | BBHA9120D | 9120D-1067 | 2020/01/05 | 2023/01/04 |
| 6. | Preamplifier | A.H. Systems, inc. | PAM-0118P | 135 | 2021/11/09 | 2022/11/08 |
| 7. | RF Coaxial Cable | Unknown | No.10 | N050 | 2021/12/14 | 2022/12/13 |
| 8. | RF Coaxial Cable | Unknown | No.11 | N1000 | 2021/12/14 | 2022/12/13 |
| 9. | RF Coaxial Cable | Unknown | No.12 | N040 | 2021/12/14 | 2022/12/13 |
| 10. | RF Coaxial Cable | Unknown | No.13 | N300 | 2021/12/14 | 2022/12/13 |
| 11. | RF Coaxial Cable | Unknown | No.14 | N800 | 2021/12/14 | 2022/12/13 |
| 12. | Radiated Emission Test Software: e3 19821b (V9) | | | | | |

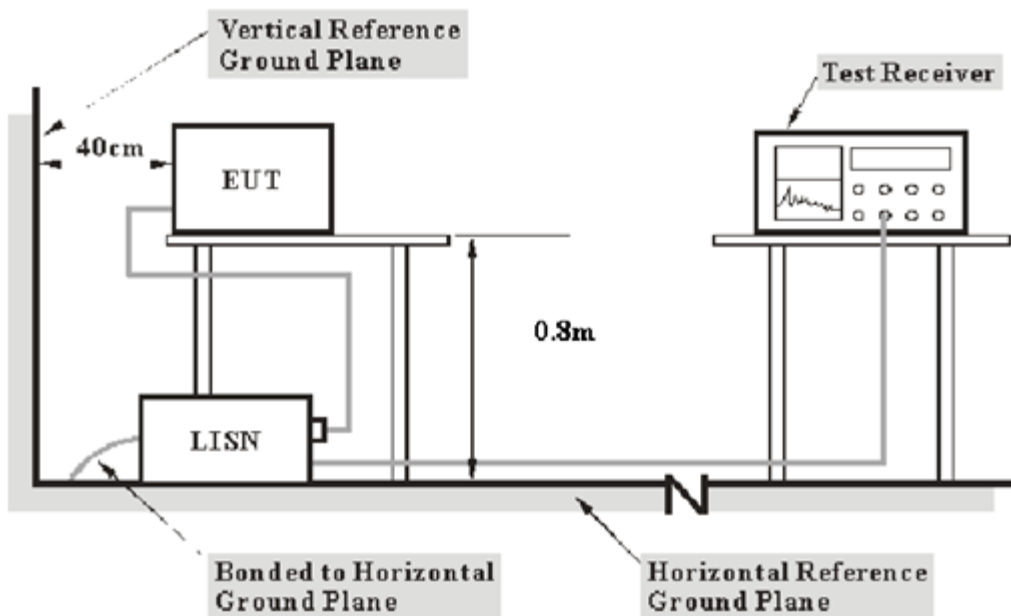
4. POWER LINE CONDUCTED MEASUREMENT

4.1. Block Diagram of Test Setup

4.1.1. Block diagram of connection between the EUT and simulators



4.1.2. Test System Setup



4.2. Power Line Conducted Emission Measurement Limits (Class B)

| Frequency (MHz) | Limit dB(μ V) | |
|--------------------|--------------------|---------------|
| | Quasi-peak Level | Average Level |
| 0.15 - 0.50 | 66.0 – 56.0 * | 56.0 – 46.0 * |
| 0.50 - 5.00 | 56.0 | 46.0 |
| 5.00 - 30.00 | 60.0 | 50.0 |

NOTE1: The lower limit shall apply at the transition frequencies.
NOTE2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

4.3. Manufacturer

The equipment are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

4.4. Operating Condition of EUT

4.4.1. Setup the EUT and simulator as shown as Section 4.1.

4.4.2. Turn on the power of all equipment.

4.4.3. Let the EUT work in test mode and measure it.

4.5. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4-2014 on Conducted Emission Measurement.

The bandwidth of test receiver is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

Over Limit = Level (dB μ V) - Limit (dB μ V)

4.6. Power Line Conducted Emission Measurement Results

PASS.

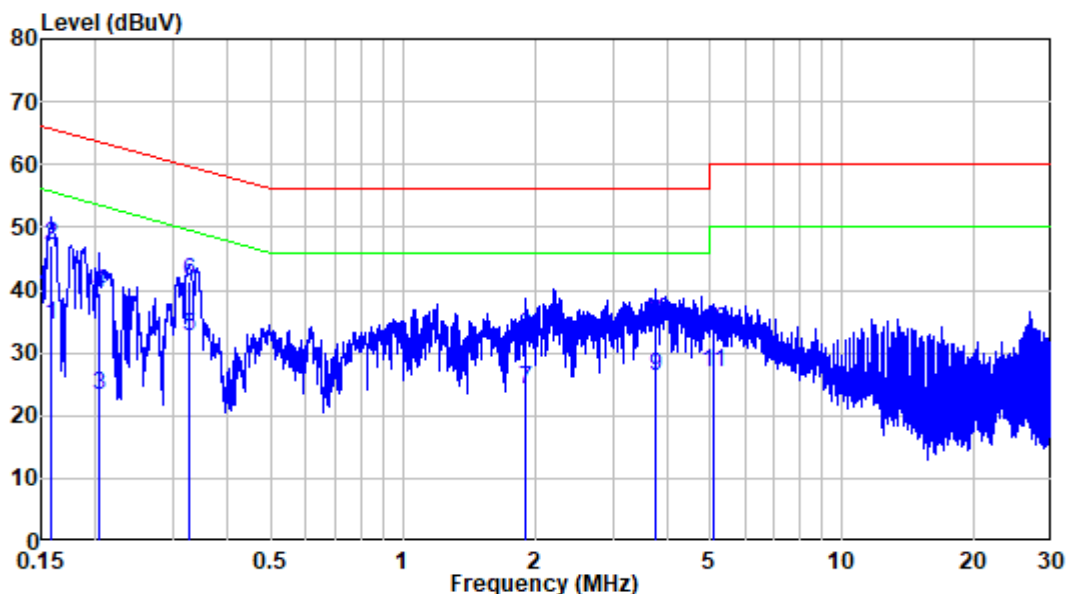
The frequency range from 150kHz to 30MHz is checked.

Maximizing procedure was performed on the six (6) highest emissions of the EUT. Emissions attenuated more than 20 dB below the permissible value are not reported.

All data was recorded in the Quasi-peak and average detection mode.

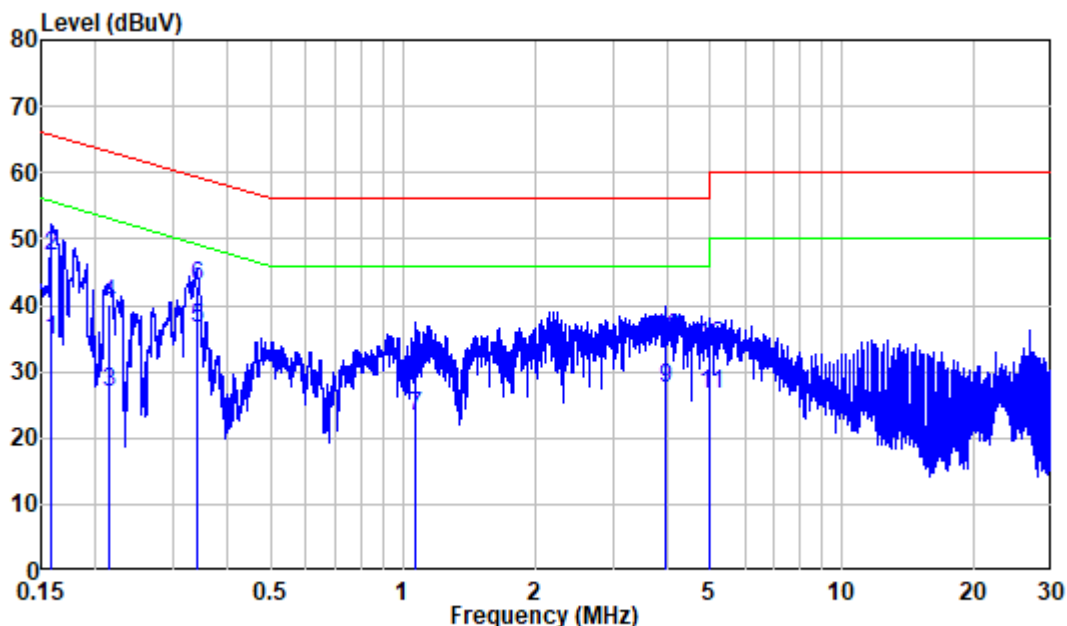
The spectral diagrams are attached as below.

| | | | |
|------------------|---------------------------------------|-----------------------|------------------------|
| Job No.: | SZ1220923-43585E-EM | Power: | AC 120V 60Hz |
| Eut No.: | SZ1220923-43585E-EM-S1 | Test By: | Jason Liu |
| Eut: | SIP/Multicast Intercom Speaker | Test item: | Conduction Test |
| Model: | GSC3506 | Test standard: | FCC Part 15B |
| Climatic: | 24° C 45%RH | Date: | 2022.09.27 |



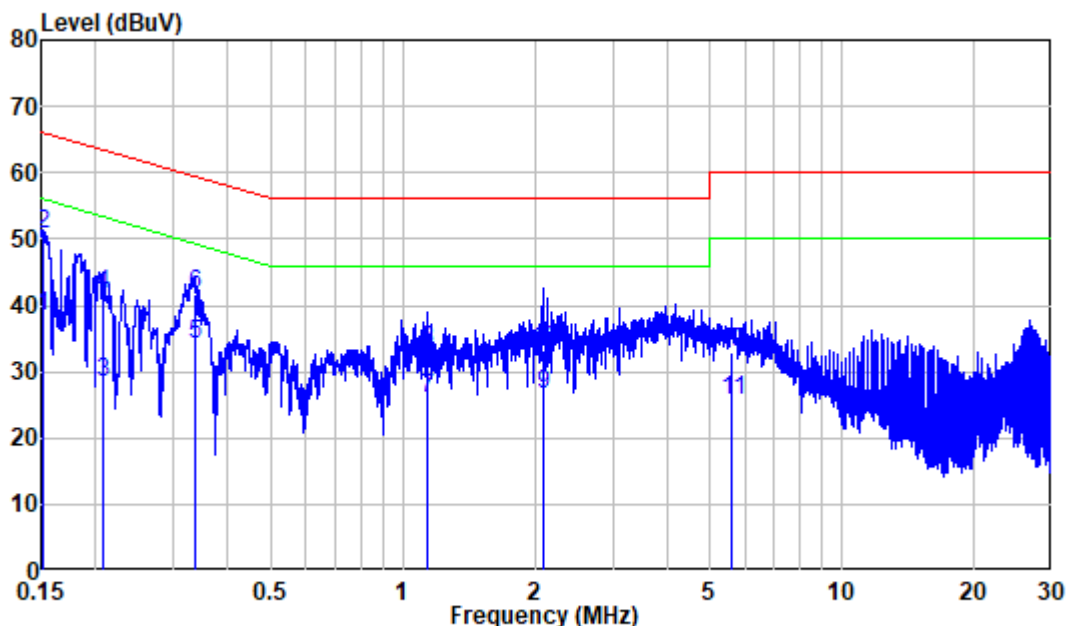
Site : Shielding Room
 Condition: Line
 Job No. : SZ1220923-43585E-EM
 Mode : Calling
 Power : AC 120V 60Hz

| | Freq | Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|----|-------|--------|------------|-------|------------|------------|---------|
| | MHz | dB | dBuV | dBuV | dBuV | dB | |
| 1 | 0.158 | 9.80 | 24.54 | 34.34 | 55.57 | -21.23 | Average |
| 2 | 0.158 | 9.80 | 37.44 | 47.24 | 65.57 | -18.33 | QP |
| 3 | 0.204 | 9.80 | 13.39 | 23.19 | 53.46 | -30.27 | Average |
| 4 | 0.204 | 9.80 | 29.76 | 39.56 | 63.46 | -23.90 | QP |
| 5 | 0.326 | 9.80 | 22.75 | 32.55 | 49.56 | -17.01 | Average |
| 6 | 0.326 | 9.80 | 31.68 | 41.48 | 59.56 | -18.08 | QP |
| 7 | 1.904 | 9.82 | 14.21 | 24.03 | 46.00 | -21.97 | Average |
| 8 | 1.904 | 9.82 | 22.67 | 32.49 | 56.00 | -23.51 | QP |
| 9 | 3.747 | 9.84 | 16.35 | 26.19 | 46.00 | -19.81 | Average |
| 10 | 3.747 | 9.84 | 25.09 | 34.93 | 56.00 | -21.07 | QP |
| 11 | 5.078 | 9.85 | 17.14 | 26.99 | 50.00 | -23.01 | Average |
| 12 | 5.078 | 9.85 | 23.65 | 33.50 | 60.00 | -26.50 | QP |



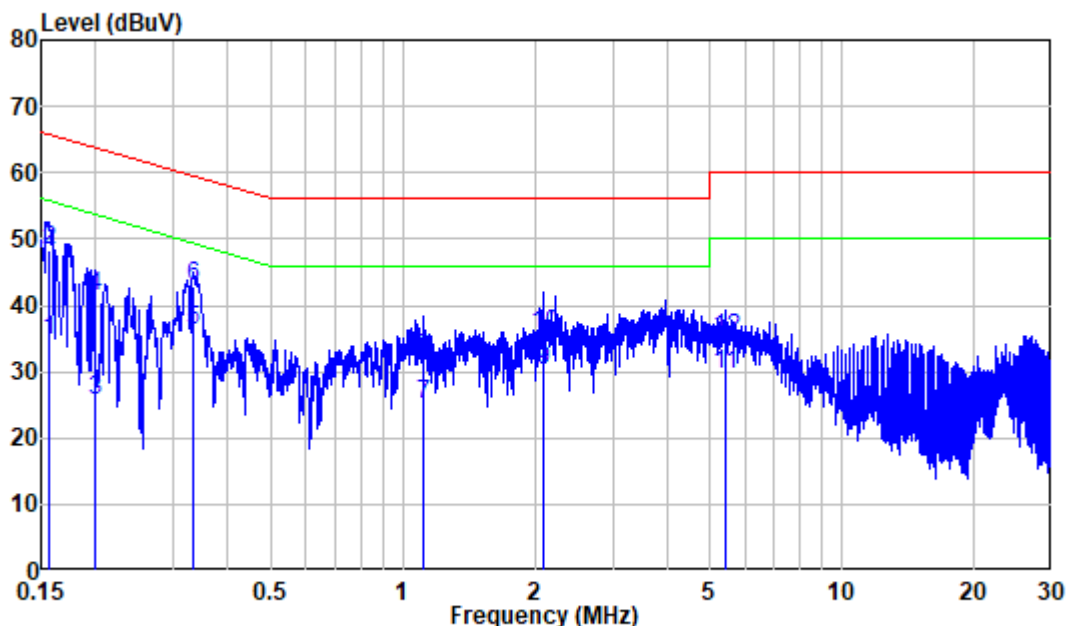
Site : Shielding Room
 Condition: Neutral
 Job No. : SZ1220923-43585E-EM
 Mode : Calling
 Power : AC 120V 60Hz

| | Freq | Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|----|-------|--------|------------|-------|------------|------------|---------|
| | MHz | dB | dBuV | dBuV | dBuV | dB | |
| 1 | 0.158 | 9.80 | 24.94 | 34.74 | 55.57 | -20.83 | Average |
| 2 | 0.158 | 9.80 | 37.58 | 47.38 | 65.57 | -18.19 | QP |
| 3 | 0.214 | 9.80 | 17.06 | 26.86 | 53.05 | -26.19 | Average |
| 4 | 0.214 | 9.80 | 30.32 | 40.12 | 63.05 | -22.93 | QP |
| 5 | 0.339 | 9.80 | 26.65 | 36.45 | 49.24 | -12.79 | Average |
| 6 | 0.339 | 9.80 | 33.02 | 42.82 | 59.24 | -16.42 | QP |
| 7 | 1.065 | 9.81 | 13.51 | 23.32 | 46.00 | -22.68 | Average |
| 8 | 1.065 | 9.81 | 19.95 | 29.76 | 56.00 | -26.24 | QP |
| 9 | 3.953 | 9.84 | 17.57 | 27.41 | 46.00 | -18.59 | Average |
| 10 | 3.953 | 9.84 | 25.32 | 35.16 | 56.00 | -20.84 | QP |
| 11 | 4.998 | 9.89 | 16.58 | 26.47 | 46.00 | -19.53 | Average |
| 12 | 4.998 | 9.89 | 23.80 | 33.69 | 56.00 | -22.31 | QP |



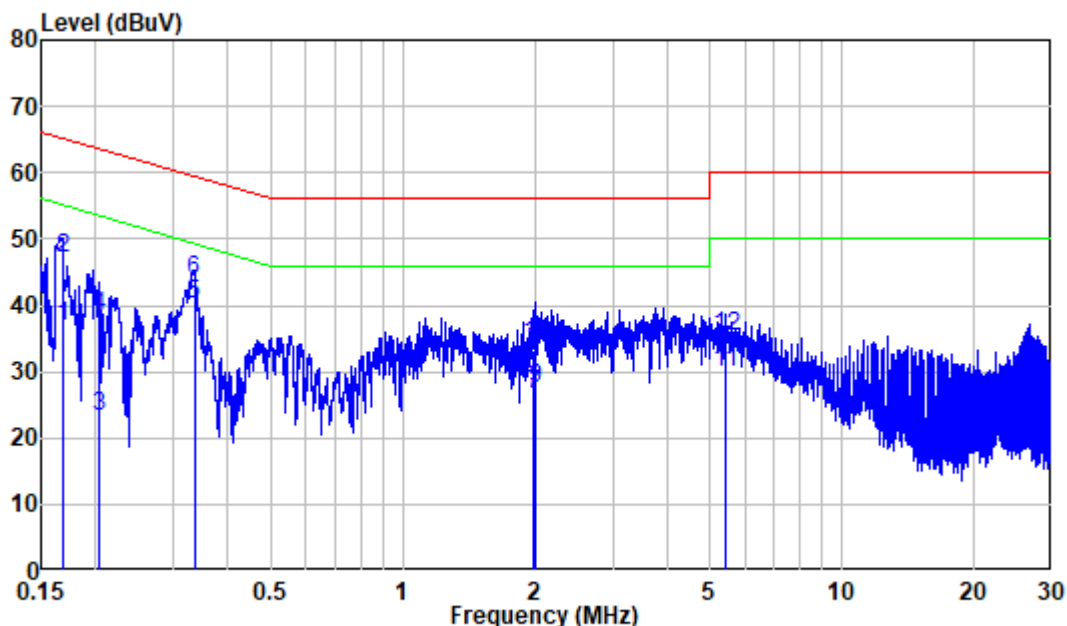
Site : Shielding Room
 Condition: Line
 Job No. : SZ1220923-43585E-EM
 Mode : Playing
 Power : AC 120V 60Hz

| | Freq | Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|----|-------|--------|------------|-------|------------|------------|---------|
| | MHz | dB | dBuV | dBuV | dBuV | dB | |
| 1 | 0.151 | 9.80 | 28.53 | 38.33 | 55.94 | -17.61 | Average |
| 2 | 0.151 | 9.80 | 40.91 | 50.71 | 65.94 | -15.23 | QP |
| 3 | 0.209 | 9.80 | 18.63 | 28.43 | 53.26 | -24.83 | Average |
| 4 | 0.209 | 9.80 | 31.88 | 41.68 | 63.26 | -21.58 | QP |
| 5 | 0.337 | 9.80 | 24.22 | 34.02 | 49.28 | -15.26 | Average |
| 6 | 0.337 | 9.80 | 31.88 | 41.68 | 59.28 | -17.60 | QP |
| 7 | 1.134 | 9.81 | 16.24 | 26.05 | 46.00 | -19.95 | Average |
| 8 | 1.134 | 9.81 | 23.41 | 33.22 | 56.00 | -22.78 | QP |
| 9 | 2.085 | 9.82 | 16.75 | 26.57 | 46.00 | -19.43 | Average |
| 10 | 2.085 | 9.82 | 23.53 | 33.35 | 56.00 | -22.65 | QP |
| 11 | 5.620 | 9.86 | 15.83 | 25.69 | 50.00 | -24.31 | Average |
| 12 | 5.620 | 9.86 | 23.10 | 32.96 | 60.00 | -27.04 | QP |



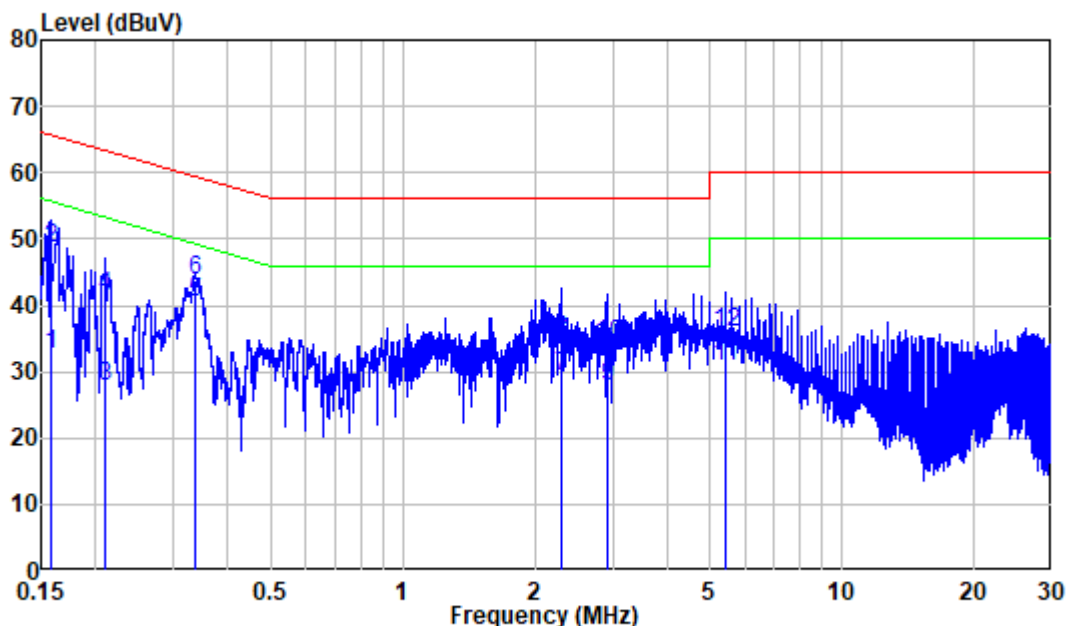
Site : Shielding Room
 Condition: Neutral
 Job No. : SZ1220923-43585E-EM
 Mode : Playing
 Power : AC 120V 60Hz

| | Freq | Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|----|-------|--------|------------|-------|------------|------------|---------|
| | MHz | dB | dBuV | dBuV | dBuV | dB | |
| 1 | 0.156 | 9.80 | 25.05 | 34.85 | 55.66 | -20.81 | Average |
| 2 | 0.156 | 9.80 | 38.64 | 48.44 | 65.66 | -17.22 | QP |
| 3 | 0.200 | 9.80 | 15.73 | 25.53 | 53.62 | -28.09 | Average |
| 4 | 0.200 | 9.80 | 31.70 | 41.50 | 63.62 | -22.12 | QP |
| 5 | 0.334 | 9.80 | 26.47 | 36.27 | 49.35 | -13.08 | Average |
| 6 | 0.334 | 9.80 | 32.95 | 42.75 | 59.35 | -16.60 | QP |
| 7 | 1.117 | 9.81 | 15.31 | 25.12 | 46.00 | -20.88 | Average |
| 8 | 1.117 | 9.81 | 22.05 | 31.86 | 56.00 | -24.14 | QP |
| 9 | 2.080 | 9.82 | 20.50 | 30.32 | 46.00 | -15.68 | Average |
| 10 | 2.080 | 9.82 | 25.68 | 35.50 | 56.00 | -20.50 | QP |
| 11 | 5.408 | 9.90 | 19.55 | 29.45 | 50.00 | -20.55 | Average |
| 12 | 5.408 | 9.90 | 25.21 | 35.11 | 60.00 | -24.89 | QP |



Site : Shielding Room
 Condition: Line
 Job No. : SZ1220923-43585E-EM
 Mode : Alarming
 Power : AC 120V 60Hz

| | Freq | Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|----|-------|--------|------------|-------|------------|------------|---------|
| | MHz | dB | dBuV | dBuV | dBuV | dB | |
| 1 | 0.168 | 9.80 | 27.03 | 36.83 | 55.06 | -18.23 | Average |
| 2 | 0.168 | 9.80 | 37.30 | 47.10 | 65.06 | -17.96 | QP |
| 3 | 0.203 | 9.80 | 13.38 | 23.18 | 53.49 | -30.31 | Average |
| 4 | 0.203 | 9.80 | 28.68 | 38.48 | 63.49 | -25.01 | QP |
| 5 | 0.335 | 9.80 | 30.27 | 40.07 | 49.33 | -9.26 | Average |
| 6 | 0.335 | 9.80 | 33.87 | 43.67 | 59.33 | -15.66 | QP |
| 7 | 1.980 | 9.82 | 16.89 | 26.71 | 46.00 | -19.29 | Average |
| 8 | 1.980 | 9.82 | 23.44 | 33.26 | 56.00 | -22.74 | QP |
| 9 | 2.008 | 9.82 | 17.57 | 27.39 | 46.00 | -18.61 | Average |
| 10 | 2.008 | 9.82 | 24.23 | 34.05 | 56.00 | -21.95 | QP |
| 11 | 5.408 | 9.85 | 19.89 | 29.74 | 50.00 | -20.26 | Average |
| 12 | 5.408 | 9.85 | 25.58 | 35.43 | 60.00 | -24.57 | QP |



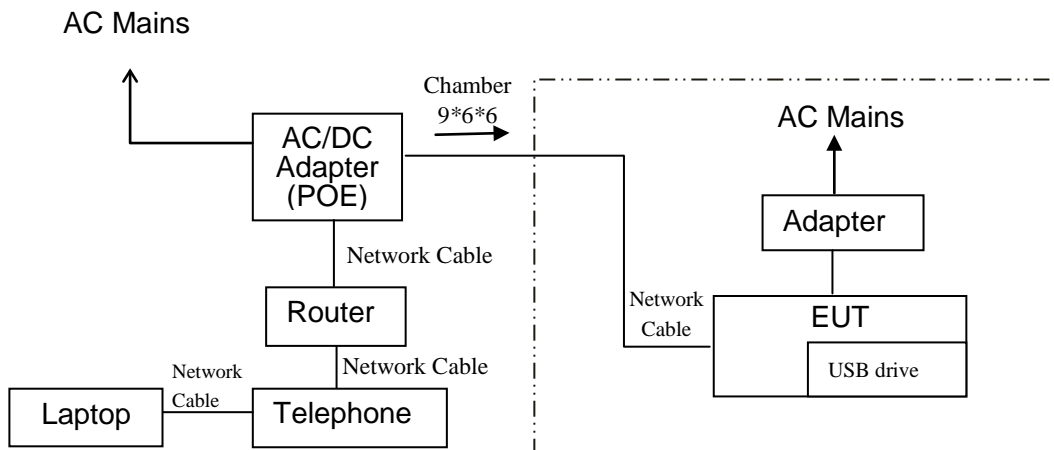
Site : Shielding Room
 Condition: Neutral
 Job No. : SZ1220923-43585E-EM
 Mode : Alarming
 Power : AC 120V 60Hz

| | Freq | Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|----|-------|--------|------------|-------|------------|------------|---------|
| | MHz | dB | dBuV | dBuV | dBuV | dB | |
| 1 | 0.157 | 9.80 | 22.86 | 32.66 | 55.60 | -22.94 | Average |
| 2 | 0.157 | 9.80 | 38.72 | 48.52 | 65.60 | -17.08 | QP |
| 3 | 0.209 | 9.80 | 18.03 | 27.83 | 53.23 | -25.40 | Average |
| 4 | 0.209 | 9.80 | 31.63 | 41.43 | 63.23 | -21.80 | QP |
| 5 | 0.336 | 9.80 | 30.75 | 40.55 | 49.31 | -8.76 | Average |
| 6 | 0.336 | 9.80 | 33.84 | 43.64 | 59.31 | -15.67 | QP |
| 7 | 2.291 | 9.82 | 19.43 | 29.25 | 46.00 | -16.75 | Average |
| 8 | 2.291 | 9.82 | 24.96 | 34.78 | 56.00 | -21.22 | QP |
| 9 | 2.915 | 9.83 | 17.86 | 27.69 | 46.00 | -18.31 | Average |
| 10 | 2.915 | 9.83 | 24.26 | 34.09 | 56.00 | -21.91 | QP |
| 11 | 5.408 | 9.90 | 20.97 | 30.87 | 50.00 | -19.13 | Average |
| 12 | 5.408 | 9.90 | 26.05 | 35.95 | 60.00 | -24.05 | QP |

5. RADIATED EMISSION MEASUREMENT

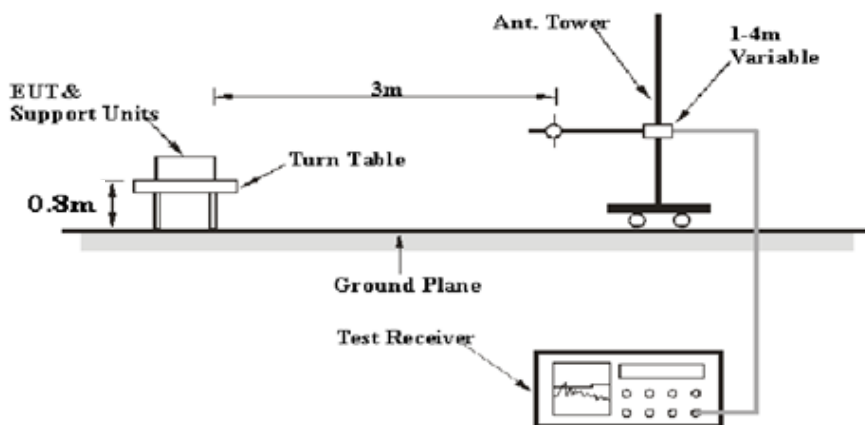
5.1. Block Diagram of Test Setup

5.1.1. Block diagram of connection between the EUT and simulators

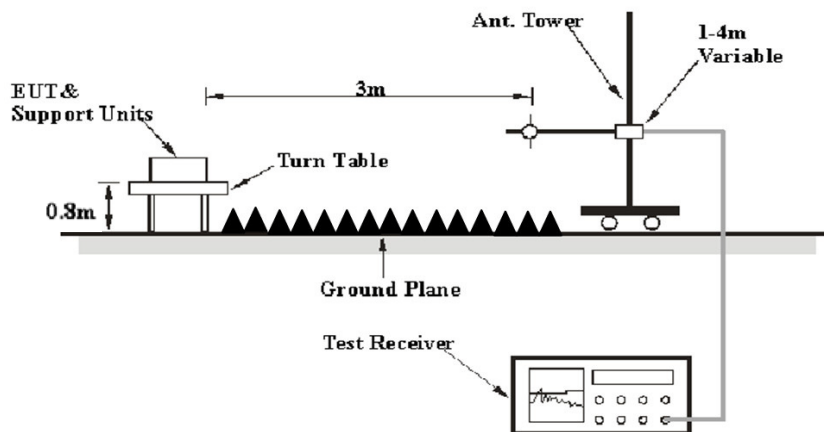


5.1.2. Test System Setup

Below 1GHz:



Above 1GHz:



5.2.Radiated Emission Limit (Class B)

All emissions from a class B device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

| Frequency MHz | Distance Meters | Field Strengths QP Limit | |
|------------------|--------------------|--------------------------|----------|
| | | μV/m | dB(μV/m) |
| 30-88 | 3 | 100 | 40.0 |
| 88-216 | 3 | 150 | 43.5 |
| 216-960 | 3 | 200 | 46.0 |
| Above 960 | 3 | 500 | 54.0 |

Remark:
 (1) Emission level dB(μV) = 20 log Emission level μV/m.
 (2)The smaller limit shall apply at the cross point between two frequency bands.
 (3) Distance is the distance in meters between the measuring instrument antenna and the closest point of any part of the device or system.

| Frequency MHz | Distance Meters | Field Strengths Limit | |
|------------------|--------------------|-----------------------|----------------|
| | | Peak dB(μV/m) | AV dB(μV/m) |
| Above 1GHz | 3 | 74 | 54 |

5.3.Manufacturer

The following equipment are installed on Radiated Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

5.4.Operating Condition of EUT

- 5.4.1.Setup the EUT and simulator as shown as Section 5.1.
- 5.4.2.Turn on the power of all equipment.
- 5.4.3.Let the EUT work in test mode and measure it.

5.5. Test Procedure

The EUT and its simulators are placed on a turntable. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated log antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2014 on radiated emission measurement.

The bandwidth of the test equipment is set at 9kHz in 9kHz-30MHz, 120 kHz in 30-1000MHz, and 1MHz in above 1000MHz.

The frequency range from 30MHz to 7GHz is investigated.

| Highest frequency generated or used in the device or on which the device operates or tunes (MHz) | Upper frequency of measurement range (MHz) |
|--|--|
| Below 1.705 | 30. |
| 1.705–108 | 1000. |
| 108–500 | 2000. |
| 500–1000 | 5000. |
| Above 1000 | 5th harmonic of the highest frequency or 40 GHz, whichever is lower. |

Over Limit (dB) = Level(dB μ v/m) - Limit (dB μ v/m)

QP = Quasi-peak Reading

The “Over Limit” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit of -7dB means the emission is 7dB below the limit.

5.6. Radiated Emission Measurement Result

PASS.

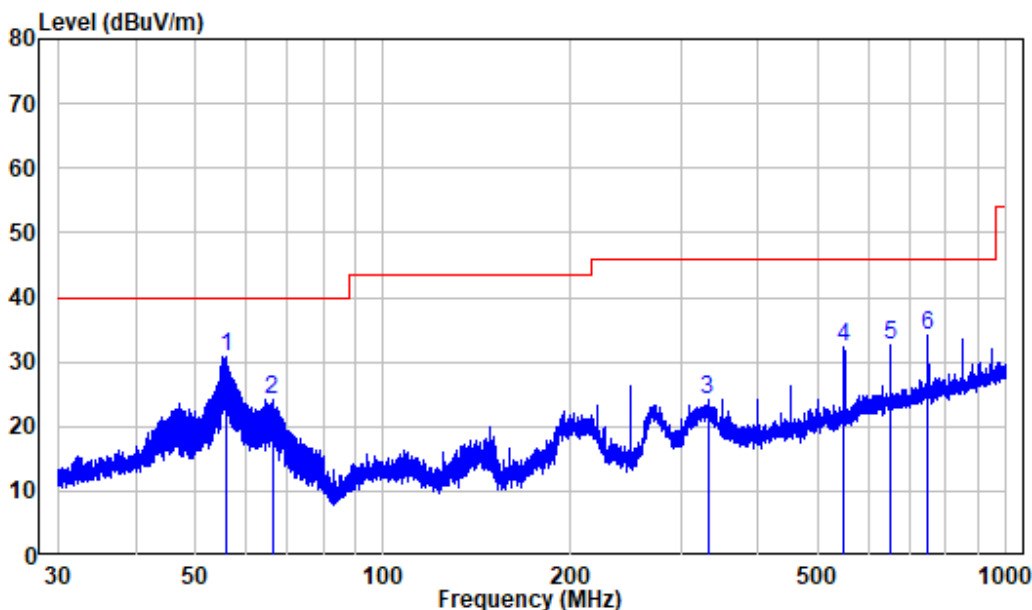
The frequency range from 30MHz to 7GHz is investigated.

The spectral diagrams are attached as below.

Over Limit = Level (dB μ V) - Limit (dB μ V)

| | | | |
|----------------|--------------------------------|--------------------|--------------------|
| Job No.: | SZ1220923-43585E-EM | Power: | 120V 60Hz |
| EUT No.: | SZ1220923-43585E-EM-S1 | Test By: | Level Li |
| EUT: | SIP/Multicast Intercom Speaker | Test item: | Radiation Emission |
| Model: | GSC3506 | Temp.(°C)/Hum.(%): | 28° C 58%RH |
| Test standard: | FCC Part 15B | Date: | 2022.09.28 |

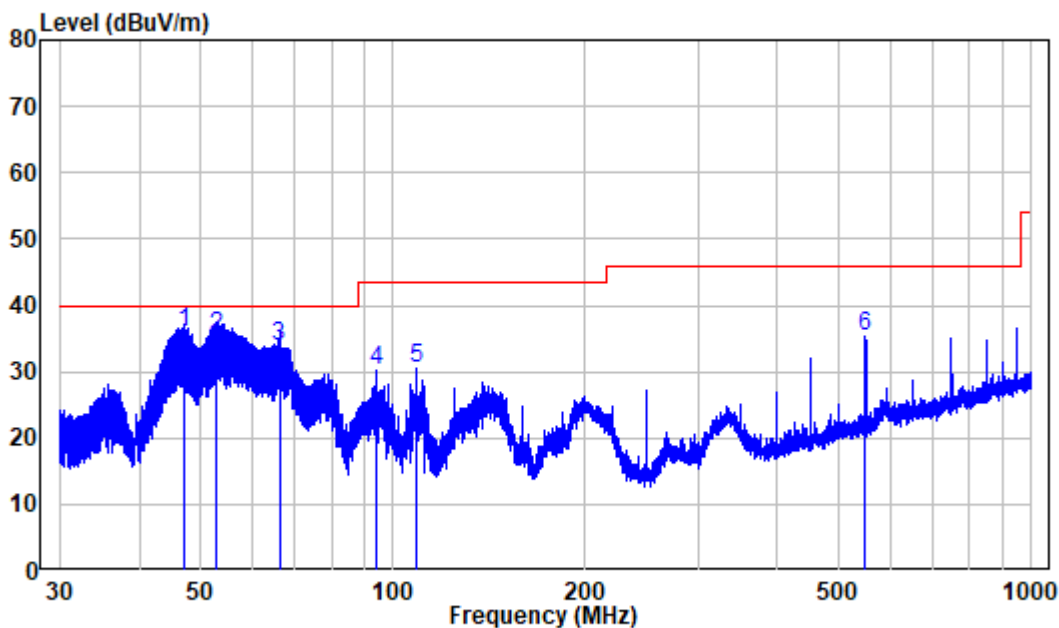
Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No. : SZ1220923-43585E-EM
 Test Mode: Calling

| | Freq | Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---------|--------|------------|--------|------------|------------|--------|
| | MHz | dB/m | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 55.927 | -10.19 | 41.01 | 30.82 | 40.00 | -9.18 | Peak |
| 2 | 66.295 | -13.02 | 37.21 | 24.19 | 40.00 | -15.81 | Peak |
| 3 | 331.791 | -7.86 | 32.07 | 24.21 | 46.00 | -21.79 | Peak |
| 4 | 549.983 | -4.03 | 36.21 | 32.18 | 46.00 | -13.82 | Peak |
| 5 | 650.229 | -1.72 | 34.24 | 32.52 | 46.00 | -13.48 | Peak |
| 6 | 750.108 | -0.87 | 35.07 | 34.20 | 46.00 | -11.80 | Peak |

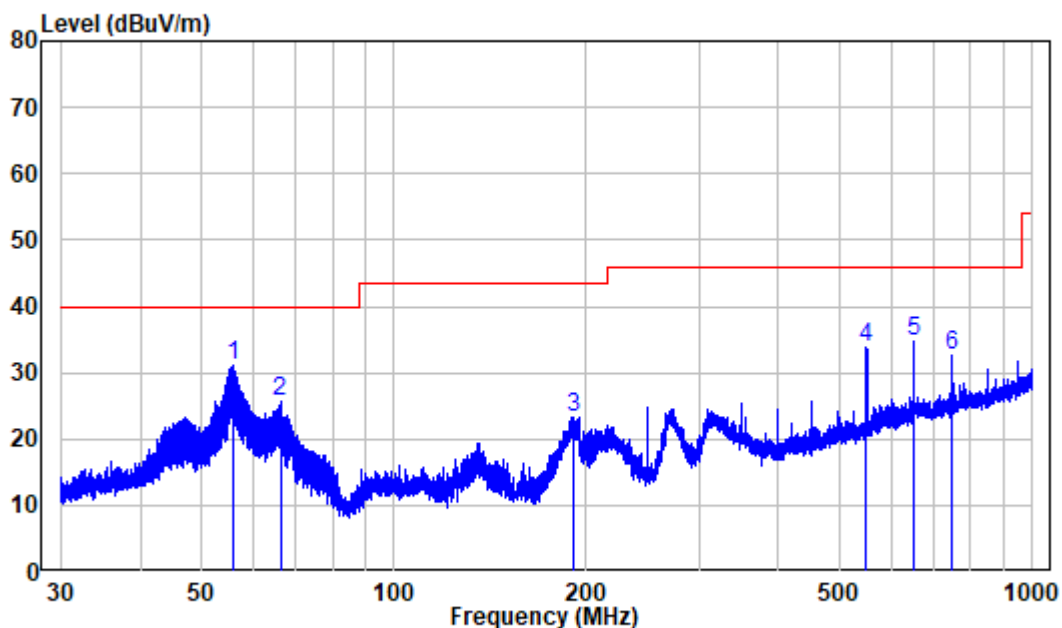
Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No. : SZ1220923-43585E-EM
 Test Mode: Calling

| | Freq | Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---------|--------|------------|--------|------------|------------|--------|
| | MHz | dB/m | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 46.995 | -10.00 | 45.80 | 35.80 | 40.00 | -4.20 | QP |
| 2 | 52.806 | -10.13 | 45.54 | 35.41 | 40.00 | -4.59 | QP |
| 3 | 66.295 | -13.02 | 46.89 | 33.87 | 40.00 | -6.13 | QP |
| 4 | 94.346 | -12.62 | 42.81 | 30.19 | 43.50 | -13.31 | Peak |
| 5 | 108.790 | -11.98 | 42.45 | 30.47 | 43.50 | -13.03 | Peak |
| 6 | 549.983 | -4.03 | 39.31 | 35.28 | 46.00 | -10.72 | Peak |

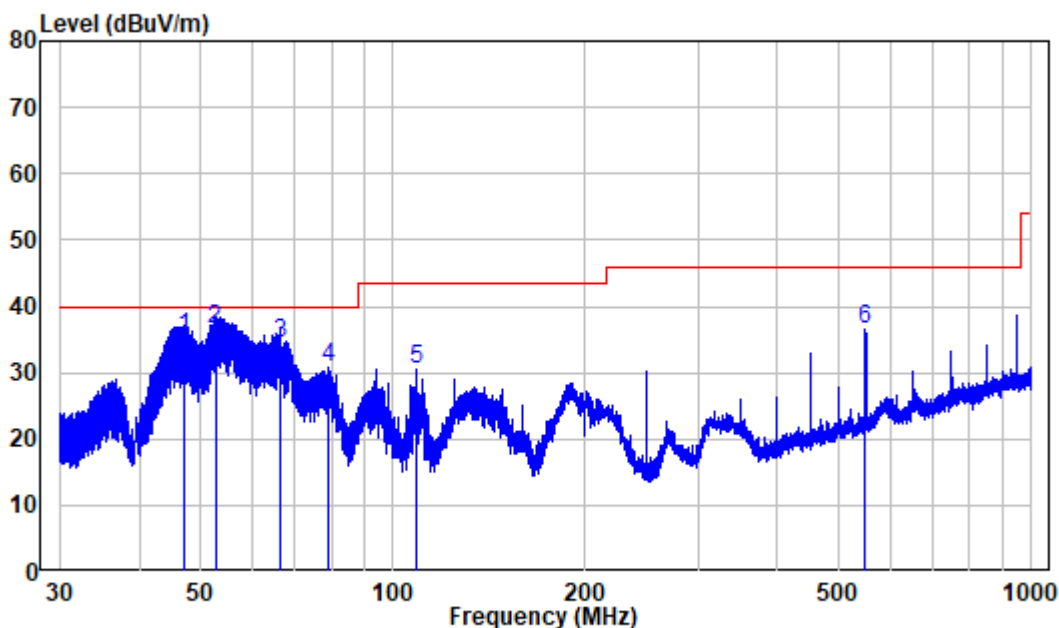
Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No. : SZ1220923-43585E-EM
 Test Mode: Playing

| | Freq | Factor | Read Level | Level | Limit | Over | Remark |
|---|---------|--------|------------|--------|--------|--------|--------|
| | MHz | dB/m | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 55.927 | -10.19 | 41.21 | 31.02 | 40.00 | -8.98 | Peak |
| 2 | 66.295 | -13.02 | 38.64 | 25.62 | 40.00 | -14.38 | Peak |
| 3 | 191.493 | -11.34 | 34.71 | 23.37 | 43.50 | -20.13 | Peak |
| 4 | 549.983 | -4.03 | 37.96 | 33.93 | 46.00 | -12.07 | Peak |
| 5 | 650.229 | -1.72 | 36.44 | 34.72 | 46.00 | -11.28 | Peak |
| 6 | 750.108 | -0.87 | 33.48 | 32.61 | 46.00 | -13.39 | Peak |

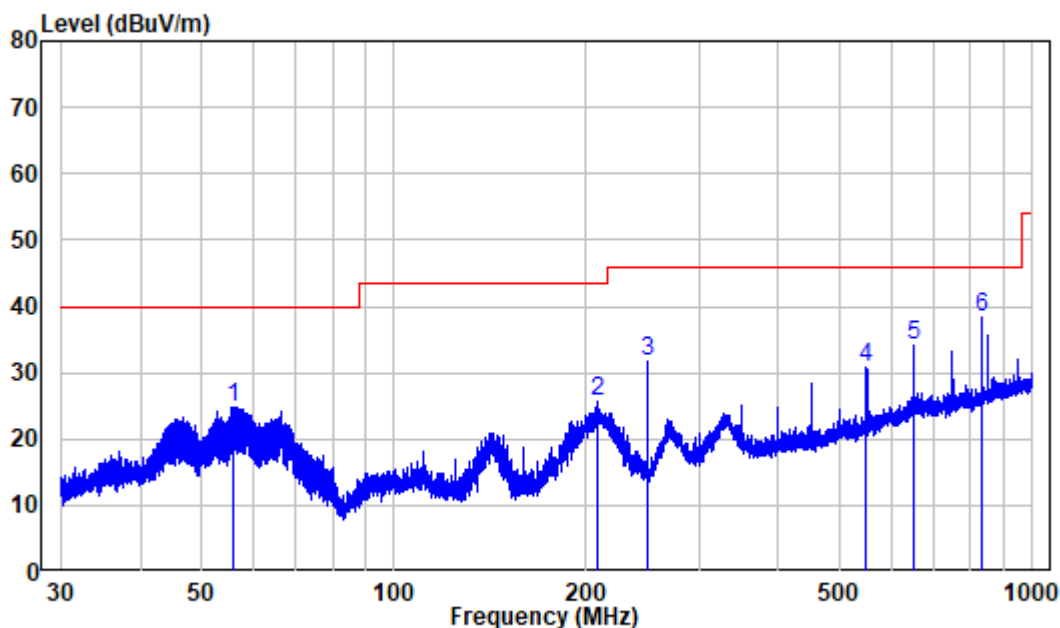
Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No. : SZ1220923-43585E-EM
 Test Mode: Playing

| | Freq | Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---------|--------|------------|--------|------------|------------|--------|
| | MHz | dB/m | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 46.995 | -10.00 | 45.25 | 35.25 | 40.00 | -4.75 | QP |
| 2 | 52.621 | -10.09 | 46.53 | 36.44 | 40.00 | -3.56 | QP |
| 3 | 66.324 | -13.04 | 47.59 | 34.55 | 40.00 | -5.45 | QP |
| 4 | 79.208 | -16.72 | 47.61 | 30.89 | 40.00 | -9.11 | Peak |
| 5 | 108.790 | -11.98 | 42.52 | 30.54 | 43.50 | -12.96 | Peak |
| 6 | 549.983 | -4.03 | 40.41 | 36.38 | 46.00 | -9.62 | Peak |

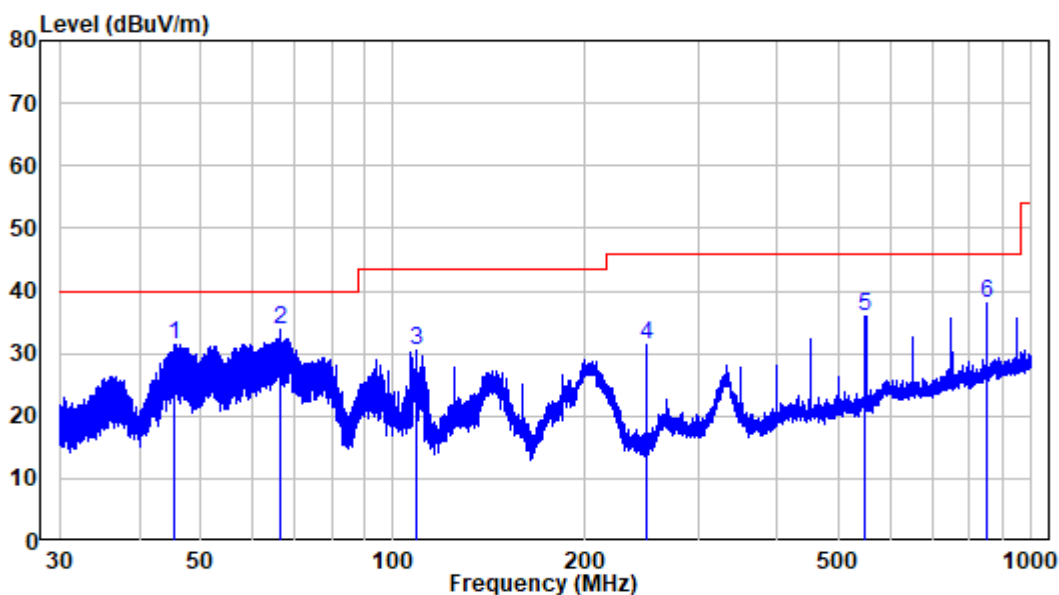
Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No. : SZ1220923-43585E-EM
 Test Mode: Alarming

| | Freq | Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---------|--------|------------|--------|------------|------------|--------|
| | MHz | dB/m | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 55.927 | -10.19 | 34.98 | 24.79 | 40.00 | -15.21 | Peak |
| 2 | 208.855 | -11.86 | 37.58 | 25.72 | 43.50 | -17.78 | Peak |
| 3 | 249.972 | -10.74 | 42.58 | 31.84 | 46.00 | -14.16 | Peak |
| 4 | 549.983 | -4.03 | 34.94 | 30.91 | 46.00 | -15.09 | Peak |
| 5 | 650.229 | -1.72 | 35.76 | 34.04 | 46.00 | -11.96 | Peak |
| 6 | 834.048 | 0.17 | 38.12 | 38.29 | 46.00 | -7.71 | Peak |

Vertical

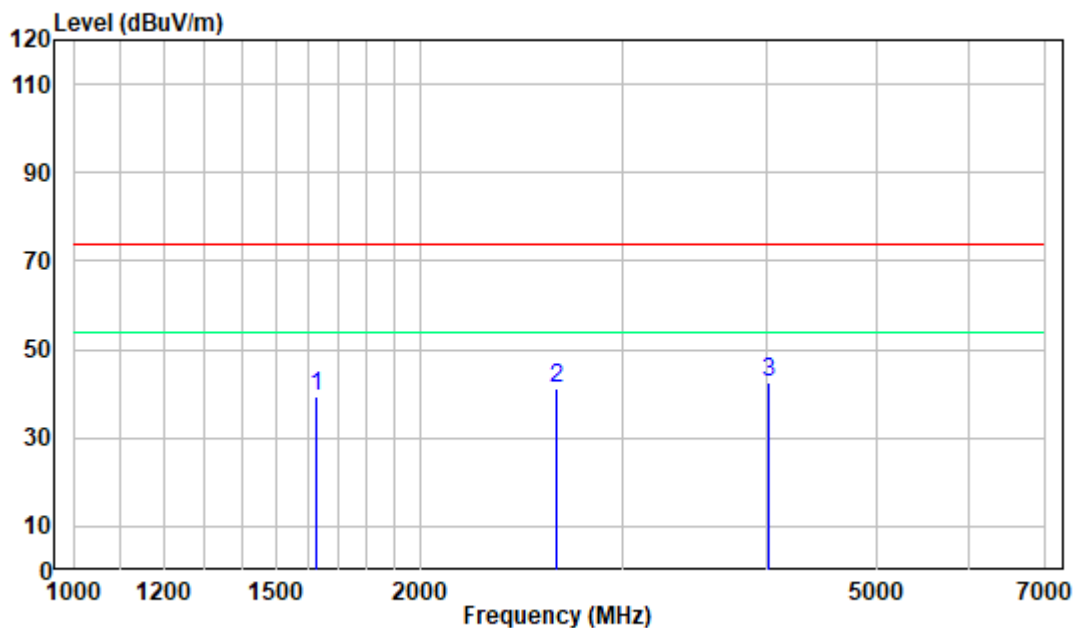


Site : chamber
 Condition: 3m VERTICAL
 Job No. : SZ1220923-43585E-EM
 Test Mode: Alarming

| | Freq | Factor | Read Level | Level | Limit | Over | Remark |
|---|---------|--------|------------|--------|--------|--------|--------|
| | MHz | dB/m | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 45.535 | -9.97 | 41.37 | 31.40 | 40.00 | -8.60 | Peak |
| 2 | 66.324 | -13.04 | 46.82 | 33.78 | 40.00 | -6.22 | Peak |
| 3 | 108.838 | -11.98 | 42.48 | 30.50 | 43.50 | -13.00 | Peak |
| 4 | 249.972 | -10.74 | 42.22 | 31.48 | 46.00 | -14.52 | Peak |
| 5 | 549.983 | -4.03 | 39.97 | 35.94 | 46.00 | -10.06 | Peak |
| 6 | 850.290 | 0.36 | 37.57 | 37.93 | 46.00 | -8.07 | Peak |

Above 1G

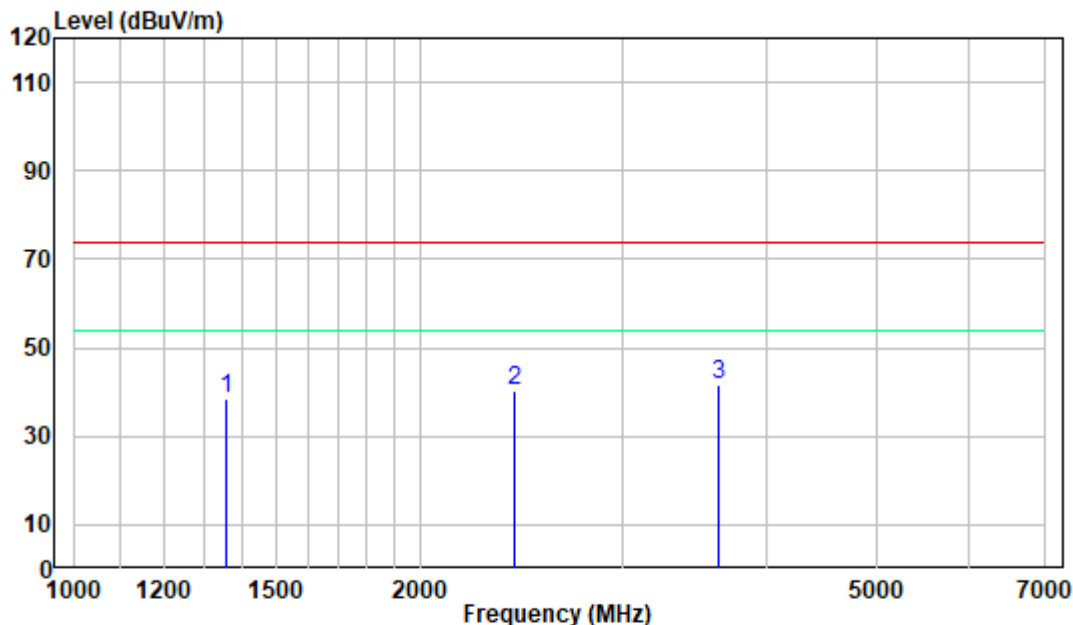
Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No. : SZ1220923-43585E-EM
 Test Mode: Calling

| | Freq | Factor | Read Level | Limit Level | Over Limit | Remark |
|---|----------|--------|------------|-------------|------------|-------------|
| | MHz | dB/m | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 1624.000 | -9.04 | 48.31 | 39.27 | 74.00 | -34.73 Peak |
| 2 | 2632.000 | -6.83 | 47.98 | 41.15 | 74.00 | -32.85 Peak |
| 3 | 4027.000 | -5.37 | 48.02 | 42.65 | 74.00 | -31.35 Peak |

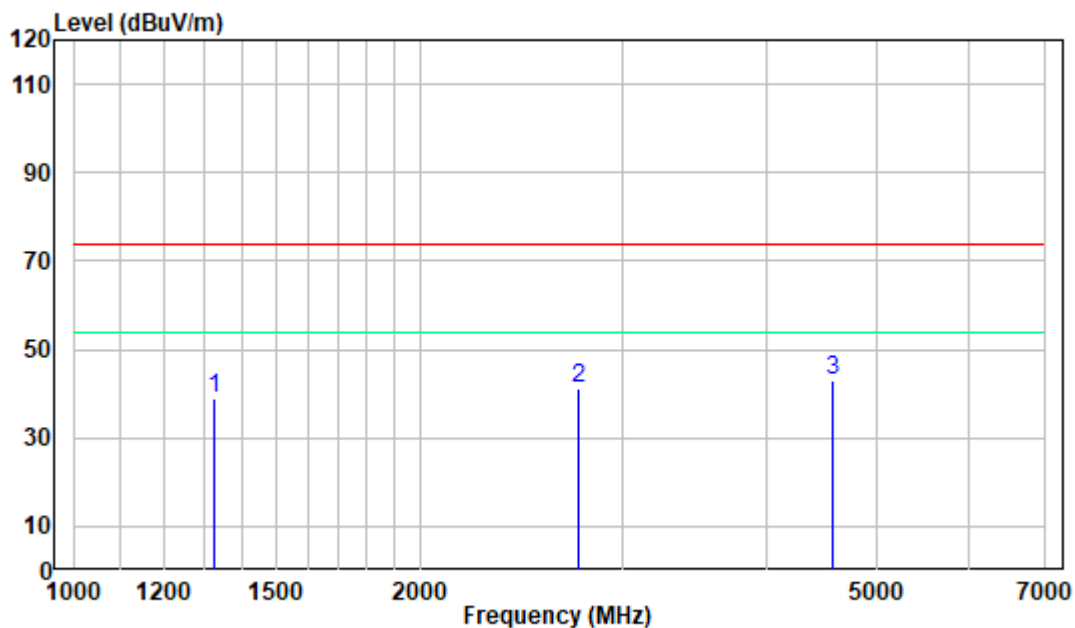
Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No. : SZ1220923-43585E-EM
 Test Mode: Calling

| | Freq | Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|----------|--------|------------|--------|------------|------------|--------|
| | MHz | dB/m | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1356.000 | -10.01 | 48.46 | 38.45 | 74.00 | -35.55 | Peak |
| 2 | 2416.000 | -7.23 | 47.38 | 40.15 | 74.00 | -33.85 | Peak |
| 3 | 3643.000 | -5.88 | 47.75 | 41.87 | 74.00 | -32.13 | Peak |

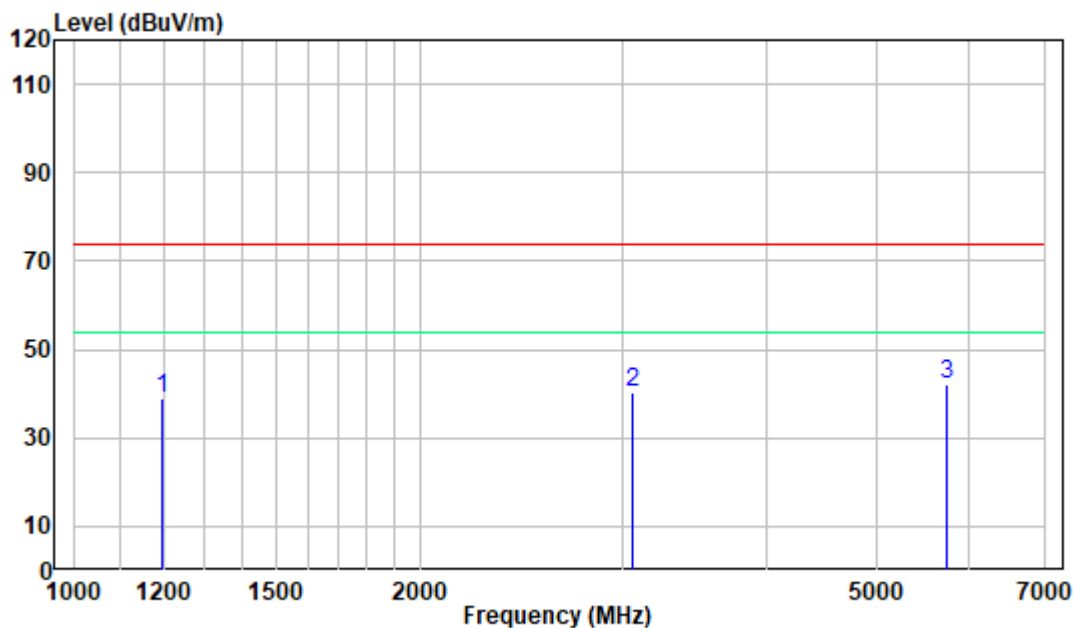
Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No. : SZ1220923-43585E-EM
 Test Mode: Playing

| | Freq | Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|----------|--------|------------|--------|------------|------------|--------|
| | MHz | dB/m | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1326.000 | -10.11 | 49.23 | 39.12 | 74.00 | -34.88 | Peak |
| 2 | 2746.000 | -6.60 | 47.83 | 41.23 | 74.00 | -32.77 | Peak |
| 3 | 4577.000 | -4.44 | 47.49 | 43.05 | 74.00 | -30.95 | Peak |

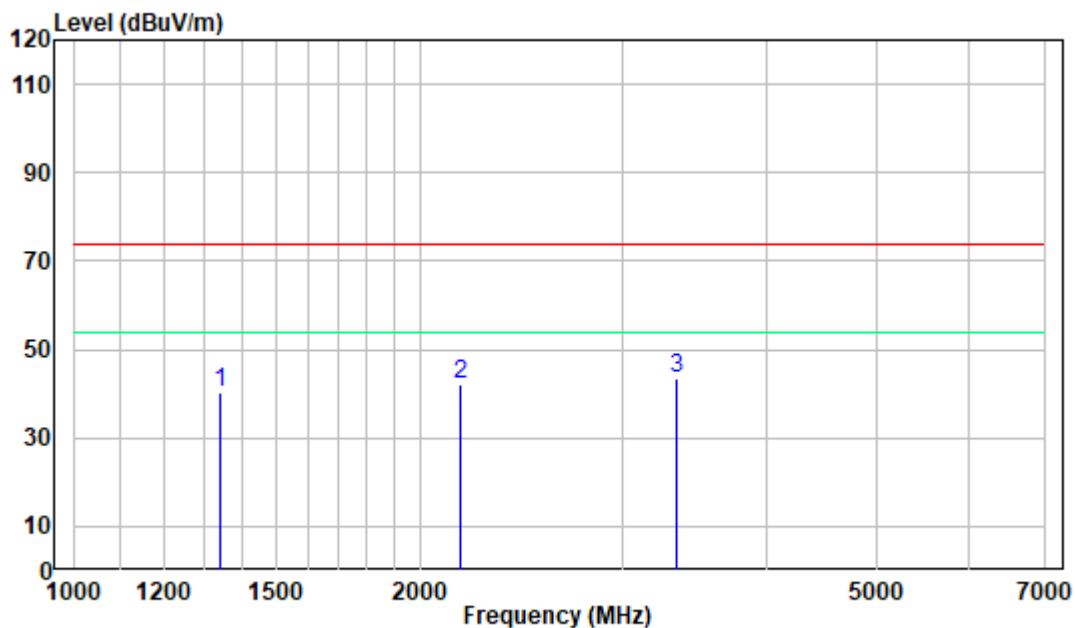
Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No. : SZ1220923-43585E-EM
 Test Mode: Playing

| | Freq | Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|----------|--------|------------|--------|------------|------------|--------|
| | MHz | dB/m | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1195.000 | -10.25 | 49.22 | 38.97 | 74.00 | -35.03 | Peak |
| 2 | 3067.000 | -5.85 | 46.21 | 40.36 | 74.00 | -33.64 | Peak |
| 3 | 5749.000 | -1.90 | 44.23 | 42.33 | 74.00 | -31.67 | Peak |

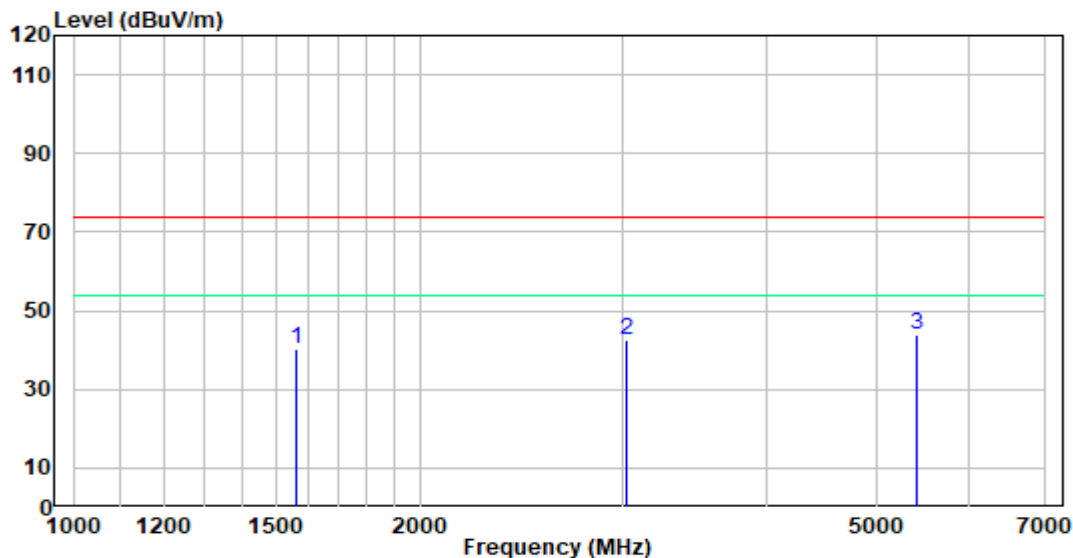
Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No. : SZ1220923-43585E-EM
 Test Mode: Alarming

| | Freq | Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|----------|--------|------------|--------|------------|------------|--------|
| | MHz | dB/m | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1342.000 | -10.05 | 50.31 | 40.26 | 74.00 | -33.74 | Peak |
| 2 | 2173.000 | -7.22 | 49.38 | 42.16 | 74.00 | -31.84 | Peak |
| 3 | 3347.000 | -6.01 | 49.70 | 43.69 | 74.00 | -30.31 | Peak |

Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No. : SZ1220923-43585E-EM
 Test Mode: Alarming

| | Freq | Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|----------|--------|------------|--------|------------|------------|--------|
| | MHz | dB/m | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1562.000 | -9.16 | 49.27 | 40.11 | 74.00 | -33.89 | Peak |
| 2 | 3024.000 | -5.83 | 48.34 | 42.51 | 74.00 | -31.49 | Peak |
| 3 | 5416.000 | -2.29 | 46.36 | 44.07 | 74.00 | -29.93 | Peak |

Note:

- 1) Level= Reading + Factor
- 2) Margin =Level-Limit
- 3) For below 1GHz testing, if the maximized peak measured value is below the limit 6dB, then it is unnecessary to perform QP measurement.
- 4) For above 1GHz testing,the test result of peak was 20dB below to the limit of peak, which can be compliant to the average limit, so just peak value was recorded.

----- THE END OF TEST REPORT -----