
FCC Test Report

Report No.: AGC10849211001FE09

FCC ID : VTJ-M2

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : Brama S-A1

BRAND NAME : SoloProtect

MODEL NAME : M2

APPLICANT : SoloProtect Limited

DATE OF ISSUE : Nov. 11, 2021

STANDARD(S) : FCC Rules and Regulations Part 15 Subpart C Section 15.225

REPORT VERSION : V1.0

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REPORT REVISE RECORD

| Report Version | Revise Time | Issued Date | Valid Version | Notes |
|----------------|-------------|---------------|---------------|-----------------|
| V1.0 | / | Nov. 11, 2021 | Valid | Initial Release |

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TABLE OF CONTENTS

| | |
|---|-----------|
| 1. VERIFICATION OF COMPLIANCE..... | 5 |
| 2. GENERAL INFORMATION | 6 |
| 2.1. PRODUCT DESCRIPTION | 6 |
| 2.2. TABLE OF CARRIER FREQUENCIES | 6 |
| 2.3. RELATED SUBMITTAL(S)/GRANT(S)..... | 7 |
| 2.4. TEST METHODOLOGY | 7 |
| 2.5. SPECIAL ACCESSORIES..... | 7 |
| 2.6. EQUIPMENT MODIFICATIONS..... | 7 |
| 2.7. ANTENNA REQUIREMENT | 7 |
| 3. MEASUREMENT UNCERTAINTY | 8 |
| 4. DESCRIPTION OF TEST MODES | 8 |
| 5. SYSTEM TEST CONFIGURATION..... | 9 |
| 5.1. CONFIGURATION OF TESTED SYSTEM..... | 9 |
| 5.2. EQUIPMENT USED IN TESTED SYSTEM..... | 9 |
| 5.3. SUMMARY OF TEST RESULTS..... | 9 |
| 6. TEST FACILITY | 10 |
| 7. RADIATED EMISSION | 11 |
| 3.1. TEST LIMIT..... | 11 |
| 7.2. MEASUREMENT PROCEDURE..... | 12 |
| 7.3. TEST SETUP..... | 13 |
| 7.4. TEST RESULT..... | 14 |
| 8. FREQUENCY STABILITY | 18 |
| 8.1. TEST LIMIT..... | 18 |
| 8.2. MEASUREMENT PROCEDURE..... | 18 |
| 8.3. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)..... | 18 |
| 8.4. MEASUREMENT RESULTS..... | 19 |
| 9. 20 DB SPECTRUM BANDWIDTH | 20 |
| 9.1. TEST LIMIT..... | 20 |
| 9.2. MEASUREMENT PROCEDURE..... | 20 |
| 9.3. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)..... | 20 |
| 9.4. MEASUREMENT RESULTS..... | 20 |
| 10. AC LINE CONDUCTED EMISSION TEST..... | 22 |
| 10.1. LIMITS OF LINE CONDUCTED EMISSION TEST..... | 22 |
| 10.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST | 22 |

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| 10.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST | 23 |
| 10.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST | 23 |
| 10.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST | 24 |
| APPENDIX A: PHOTOGRAPHS OF TEST SETUP | 26 |
| APPENDIX B: PHOTOGRAPHS OF EUT | 28 |

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1. VERIFICATION OF COMPLIANCE

| | |
|---------------------------------|--|
| Applicant | SoloProtect Limited |
| Address | Suzy Lamplugh House, Vantage Drive, Sheffield, United Kingdom, S9 1RG |
| Manufacturer | Shenzhen Unicair Communication Technology Co., Ltd. |
| Address | 8-9/F, Block1, Wutong Island, Shunchang Rd., Xixiang, Bao'an District, Shenzhen China. |
| Factory | Dongguan Unicair Communication Technology Co., Ltd. |
| Address | 49 Yinhu Road, Qiaotou Town, Dongguan City, Guangdong Province, China |
| Product Designation | Brama S-A1 |
| Brand Name | SoloProtect |
| Test Model | M2 |
| Date of test | Oct. 14, 2021~Nov. 11, 2021 |
| Deviation | No any deviation from the test method |
| Condition of Test Sample | Normal |
| Test Result | Pass |
| Report Template | AGCRT-US-SRD/RF |

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC part 15.225.

Prepared By

Eder zhan

Eder Zhan
(Project Engineer)

Nov. 11, 2021

Reviewed By

Calvin Liu

Calvin Liu
(Reviewer)

Nov. 11, 2021

Approved By

Max Zhang

Max Zhang
Authorized Officer

Nov. 11, 2021

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as a “Brama S-A1”. It is designed by way of utilizing the ASK technology to achieve the system operation.

A major technical description of EUT is described as following

| | |
|----------------------------|--|
| Operation Frequency | 13.56MHz |
| Max field strength | 83.26dBuV/m |
| Modulation | ASK |
| Number of channels | 1 Channel |
| Antenna Designation | PIFA Antenna (Comply with requirements of the FCC part 15.203) |
| Antenna Gain | 1.0dBi |
| Hardware Version | GBE Brama S v2_main_RevA |
| Software Version | S-A1.D02.20211008 |
| Power Supply | DC 3.85V by battery |

2.2. TABLE OF CARRIER FREQUENCIES

| Frequency Band | Channel Number | Frequency |
|-------------------|----------------|-----------|
| 13.110~14.010 MHz | 01 | 13.56 MHz |

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2.3. RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for **FCC ID: VTJ-M2** filing to comply with the FCC Part 15.225 requirements.

2.4. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

2.5. SPECIAL ACCESSORIES

Refer to section 5.2.

2.6. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

2.7. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device.
For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.

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3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

- Uncertainty of Conducted Emission, $U_c = \pm 3.2$ dB
- Uncertainty of Radiated Emission below 1GHz, $U_c = \pm 3.9$ dB
- Uncertainty of Radiated Emission above 1GHz, $U_c = \pm 4.8$ dB
- Uncertainty of total RF power, conducted, $U_c = \pm 0.8$ dB
- Uncertainty of RF power density, conducted, $U_c = \pm 2.6$ dB
- Uncertainty of spurious emissions, conducted, $U_c = \pm 2.7$ dB
- Uncertainty of Occupied Channel Bandwidth: $U_c = \pm 2$ %

4. DESCRIPTION OF TEST MODES

| NO. | TEST MODE DESCRIPTION |
|-----|------------------------|
| 1 | Transmitting(13.56MHz) |

Note:

1. Only the result of the worst case was recorded in the report, if no other cases.
2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
3. For Conducted Test method, a temporary antenna connector is provided by the manufacture.
4. For battery operated equipment, the equipment tests are performed using a lithium battery.

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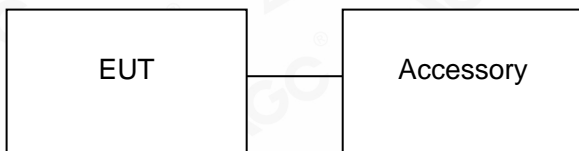
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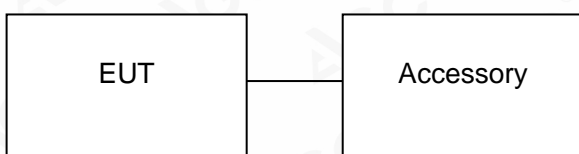
5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF TESTED SYSTEM

Radiated Emission Configure:



Conducted Emission Configure:



5.2. EQUIPMENT USED IN TESTED SYSTEM

| Item | Equipment | Model No. | ID or Specification | Remark |
|------|------------|------------|---------------------|--------|
| 1 | Brama S-A1 | M2 | VTJ-M2 | EUT |
| 2 | Battery | Brama S v2 | DC 3.85V 1070mAh | AE |
| 3 | Aadapter | ES581 | DC 5V 2A | AE |

5.3. SUMMARY OF TEST RESULTS

| FCC RULES | DESCRIPTION OF TEST | RESULT |
|------------------|---|-----------|
| 15.215(c) | 20dB Spectrum Bandwidth | Compliant |
| 15.225(e) | Frequency Stability | Compliant |
| 15.225(a)(b)(c) | Field Strength of Fundamental Emissions | Compliant |
| 15.225(d)&15.209 | Radiated Emission | Compliant |
| 15.207 | AC Power Line Conducted Emissions | Compliant |

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6. TEST FACILITY

| | |
|--|--|
| Test Site | Attestation of Global Compliance (Shenzhen) Co., Ltd |
| Location | 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China |
| Designation Number | CN1259 |
| FCC Test Firm Registration Number | 975832 |
| A2LA Cert. No. | 5054.02 |
| Description | Attestation of Global Compliance (Shenzhen) Co., Ltd is accredited by A2LA |

TEST EQUIPMENT OF RADIATED EMISSION TEST

| Equipment | Manufacturer | Model | S/N | Cal. Date | Cal. Due |
|--------------------------------|----------------|-------------------|------------|---------------|---------------|
| TEST RECEIVER | R&S | ESCI | 10096 | Apr. 14, 2021 | Apr. 13, 2022 |
| EXA Signal Analyzer | Agilent | N9010A | MY53470504 | Dec. 07, 2020 | Dec. 06, 2021 |
| 2.4GHz Filter | EM Electronics | 2400-2500MHz | N/A | Mar. 23, 2020 | Mar. 22, 2022 |
| Attenuator | ZHINAN | E-002 | N/A | Sep. 07, 2021 | Sep. 06, 2022 |
| Horn antenna | SCHWARZBECK | BBHA 9170 | #768 | Sep. 19, 2021 | Sep. 18, 2023 |
| Active loop antenna (9K-30MHz) | ZHINAN | ZN30900C | 18051 | May 22, 2020 | May 21, 2022 |
| Double-Ridged Waveguide Horn | ETS LINDGREN | 3117 | 00034609 | Apr. 23, 2021 | Apr. 22, 2023 |
| Broadband Preamplifier | ETS LINDGREN | 3117PA | 00225134 | Sep. 03, 2020 | Sep. 02, 2022 |
| ANTENNA | SCHWARZBECK | VULB9168 | 494 | Jan. 08, 2021 | Jan. 07, 2023 |
| Test software | Tonscend | JS32-RE (Ver.2.5) | N/A | N/A | N/A |

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7. RADIATED EMISSION

7.1. TEST LIMIT

| Rules and specifications | FCC CFR 47 Part 15 section 15.225 | | | |
|--------------------------|---|--------------------------------|--------------------------------|-------------------------------|
| Description | Compliance with the spectrum mask is tested with RBW set to 9kHz. | | | |
| Freq. of Emission (MHz) | Field Strength (μV/m) at 30m | Field Strength (dBμV/m) at 30m | Field Strength (dBμV/m) at 10m | Field Strength (dBμV/m) at 3m |
| 1.705~13.110 | 30 | 29.5 | 48.58 | 69.5 |
| 13.110~13.410 | 106 | 40.5 | 59.58 | 80.5 |
| 13.410~13.553 | 334 | 50.5 | 69.58 | 90.5 |
| 13.553~13.567 | 15848 | 84.0 | 103.08 | 124.0 |
| 13.567~13.710 | 334 | 50.5 | 69.58 | 90.5 |
| 13.710~14.010 | 106 | 40.5 | 59.58 | 80.5 |
| 14.010~30.000 | 30 | 29.5 | 48.58 | 69.5 |

According to 15.35, on any frequency or frequencies below or equal to 1000 MHz, the limits Shown are based on measuring equipment employing a CISPR quasi-peak detector function and related measurement bandwidths, unless otherwise specified the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test.

The field strength of any emissions which appear outside of 13.110 ~14.010MHz band shall not exceed the general radiated emissions limits.

| Frequencies (MHz) | Field Strength (μV/m) | Measurement Distance (meters) |
|-------------------|-----------------------|-------------------------------|
| 0.009~0.490 | 2400/F(kHz) | 300 |
| 0.490~1.705 | 24000/F(kHz) | 30 |
| 1.705~30.0 | 30 | 30 |
| 30~88 | 100 | 3 |
| 88~216 | 150 | 3 |
| 216~960 | 200 | 3 |
| Above 960 | 500 | 3 |

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7.2. MEASUREMENT PROCEDURE

1. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

The following table is the setting of spectrum analyzer and receiver.

| Spectrum Parameter | Setting |
|-----------------------|---|
| Start ~Stop Frequency | 9KHz~150KHz/RB 200Hz for QP |
| Start ~Stop Frequency | 150KHz~30MHz/RB 9KHz for QP |
| Start ~Stop Frequency | 30MHz~1000MHz/RB 120KHz for QP |
| Start ~Stop Frequency | 1GHz~26.5GHz 1MHz/1MHz for Peak, 1MHz/10Hz for Average |

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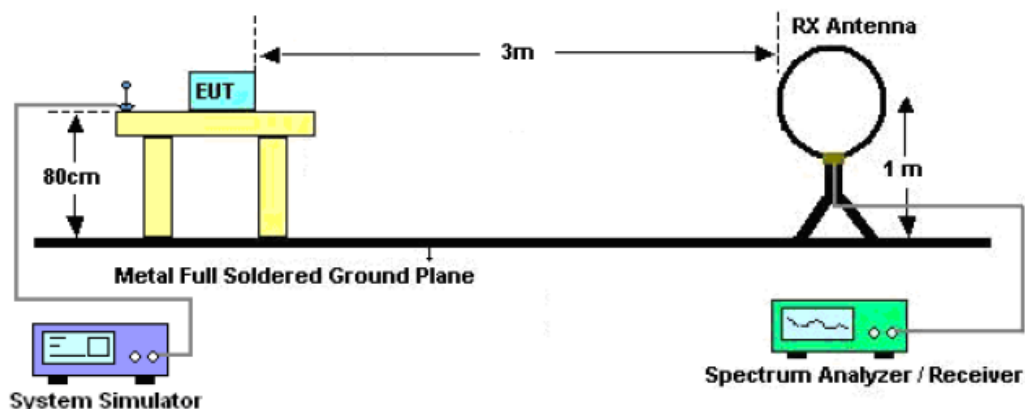
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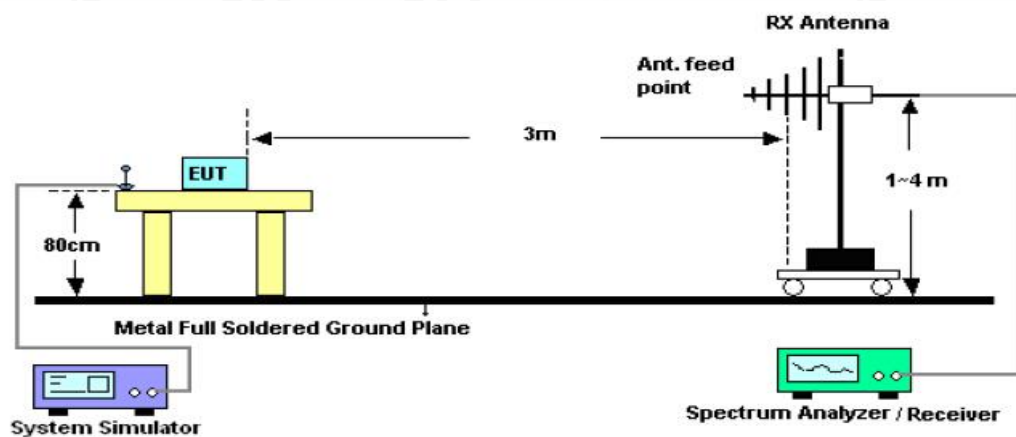
| Receiver Parameter | Setting |
|-----------------------|--------------------------------|
| Start ~Stop Frequency | 9KHz~150KHz/RB 200Hz for QP |
| Start ~Stop Frequency | 150KHz~30MHz/RB 9KHz for QP |
| Start ~Stop Frequency | 30MHz~1000MHz/RB 120KHz for QP |

7.3. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



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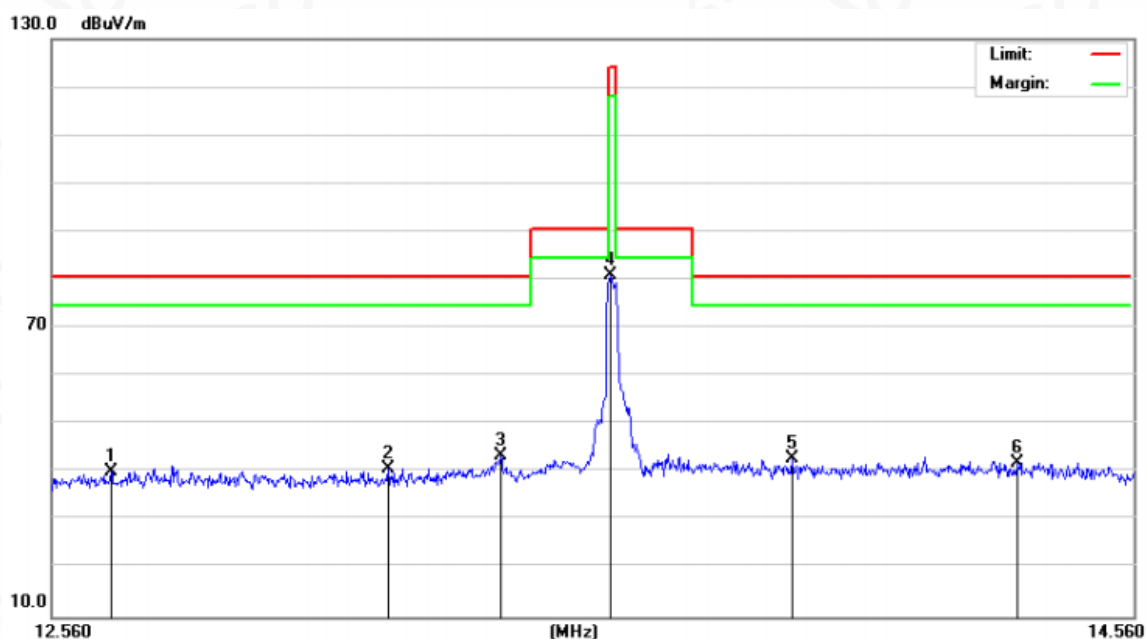
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7.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

| | | | |
|--------------|------------|--------------------|---------|
| EUT: | Brama S-A1 | Model Name | M2 |
| Temperature: | 20 °C | Relative Humidity: | 53% |
| Pressure: | 1010hPa | Test Voltage : | DC3.85V |
| Test Mode : | Mode 1 | Polarization : | Face |



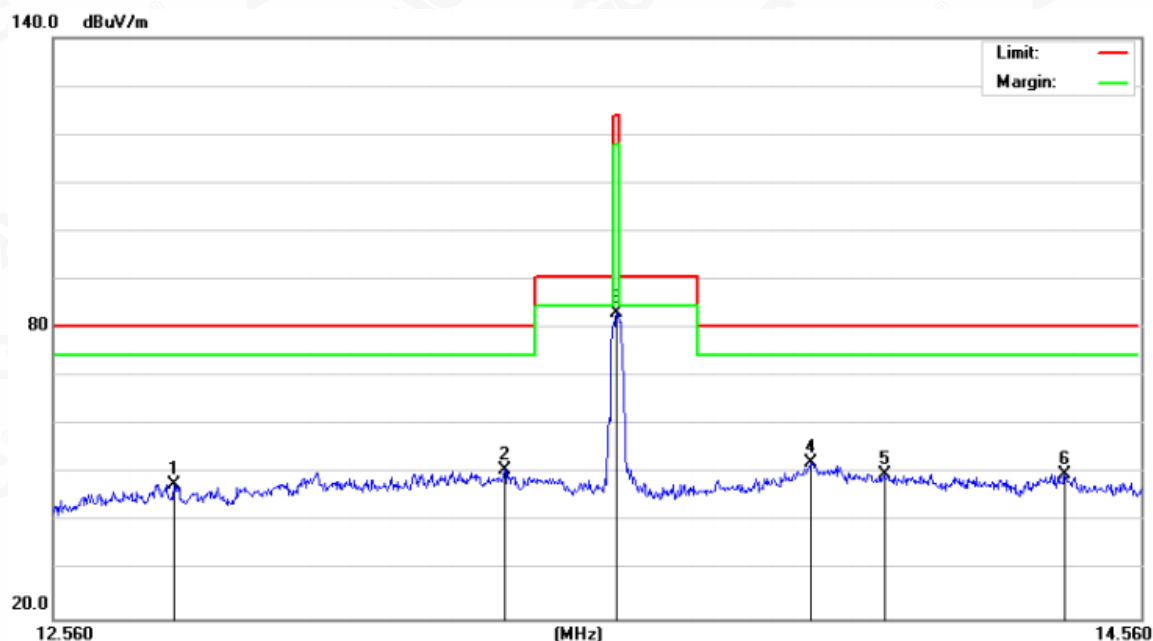
| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|
| 1 | | 12.6639 | 40.23 | 0.00 | 40.23 | 80.50 | -40.27 | peak |
| 2 | | 13.1519 | 40.77 | 0.00 | 40.77 | 80.50 | -39.73 | peak |
| 3 | * | 13.3559 | 43.40 | 0.00 | 43.40 | 80.50 | -37.10 | peak |
| 4 | | 13.5579 | 80.87 | 0.00 | 80.87 | 124.0 | -43.13 | peak |
| 5 | | 13.8960 | 42.88 | 0.00 | 42.88 | 80.50 | -37.62 | peak |
| 6 | | 14.3320 | 42.07 | 0.00 | 42.07 | 80.50 | -38.43 | peak |

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| | | | |
|--------------|-------------|--------------------|---------|
| EUT: | Smart Phone | Model Name | M2 |
| Temperature: | 20 °C | Relative Humidity: | 53% |
| Pressure: | 1010 hPa | Test Voltage : | DC3.85V |
| Test Mode : | Mode 1 | Polarization : | Side |



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|
| 1 | | 12.7680 | 47.79 | 0.00 | 47.79 | 80.50 | -32.71 | peak |
| 2 | | 13.3560 | 50.90 | 0.00 | 50.90 | 80.50 | -29.60 | peak |
| 3 | | 13.5600 | 83.26 | 0.00 | 83.26 | 124.0 | -40.74 | peak |
| 4 | * | 13.9240 | 52.16 | 0.00 | 52.16 | 80.50 | -28.34 | peak |
| 5 | | 14.0620 | 49.88 | 0.00 | 49.88 | 80.50 | -30.62 | peak |
| 6 | | 14.4120 | 49.83 | 0.00 | 49.83 | 80.50 | -30.67 | peak |

Note: Other emissions from 9 kHz to 30 MHz are considered as ambient noise. No recording in the test report.

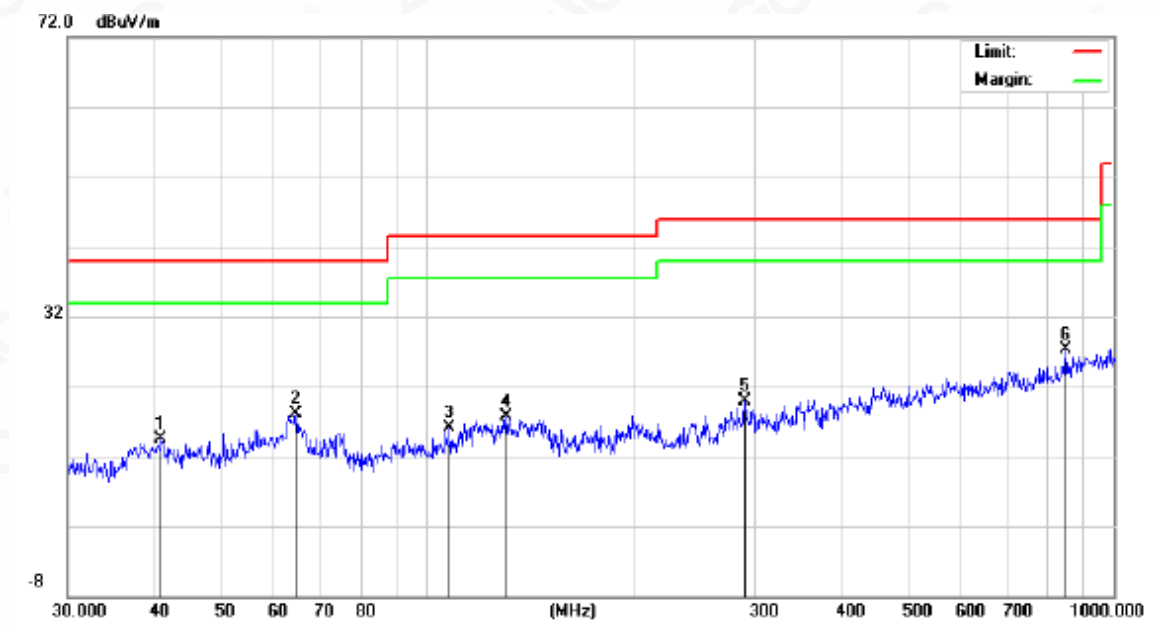
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RADIATED EMISSION 30MHZ- 1GHZ

| | | | |
|--------------|-------------|--------------------|------------|
| EUT: | Smart Phone | Model Name | M2 |
| Temperature: | 20 °C | Relative Humidity: | 53% |
| Pressure: | 1010 hPa | Test Voltage : | DC3.85V |
| Test Mode : | Mode 1 | Polarization : | Horizontal |



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | |
|-----|-----|----------|---------|---------|----------|--------|--------|----------|
| | | MHz | dBuV | Factor | ment | dBuV/m | dB | Detector |
| 1 | | 40.9881 | 4.54 | 9.96 | 14.50 | 40.00 | -25.50 | peak |
| 2 | | 64.4330 | 6.29 | 11.76 | 18.05 | 40.00 | -21.95 | peak |
| 3 | | 107.8876 | 5.06 | 10.97 | 16.03 | 43.50 | -27.47 | peak |
| 4 | | 130.3788 | 4.96 | 12.80 | 17.76 | 43.50 | -25.74 | peak |
| 5 | | 290.0172 | 9.37 | 10.45 | 19.82 | 46.00 | -26.18 | peak |
| 6 | * | 851.0353 | 6.72 | 20.58 | 27.30 | 46.00 | -18.70 | peak |

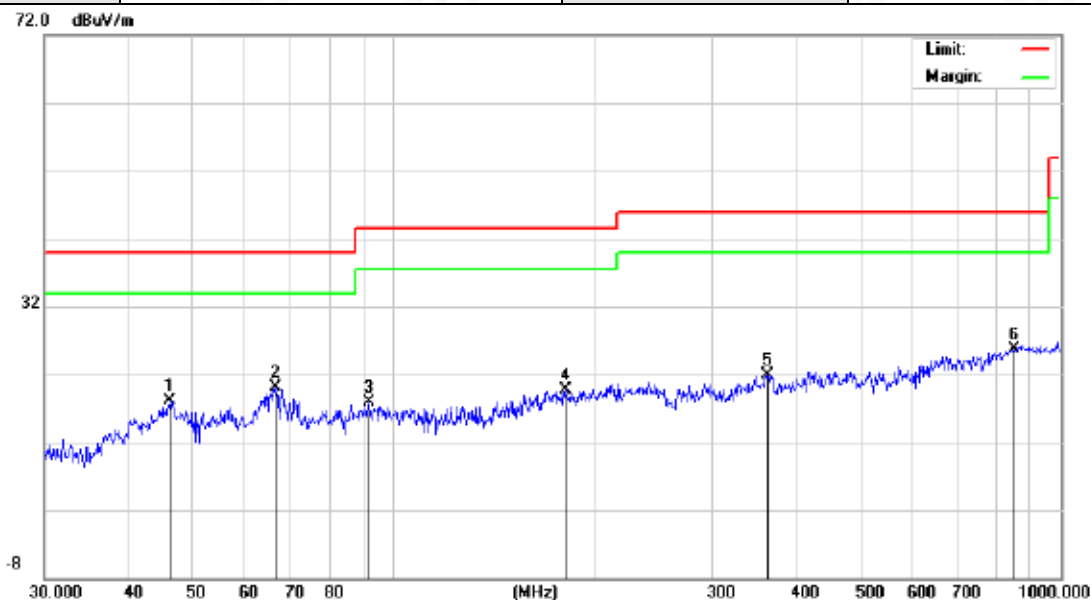
RESULT: PASS

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| | | | |
|--------------|-------------|--------------------|----------|
| EUT: | Smart Phone | Model Name | M2 |
| Temperature: | 20 °C | Relative Humidity: | 53% |
| Pressure: | 1010 hPa | Test Voltage : | DC3.85V |
| Test Mode : | Mode 1 | Polarization : | Vertical |



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | |
|-----|-----|----------|---------|---------|----------|--------|--------|----------|
| | | MHz | Level | Factor | ment | | | |
| | | | dBuV | dB | dBuV/m | dBuV/m | dB | Detector |
| 1 | | 46.1779 | 8.89 | 9.25 | 18.14 | 40.00 | -21.86 | peak |
| 2 | * | 66.4989 | 8.15 | 11.89 | 20.04 | 40.00 | -19.96 | peak |
| 3 | | 91.8162 | 8.05 | 9.92 | 17.97 | 43.50 | -25.53 | peak |
| 4 | | 180.6487 | 10.60 | 9.01 | 19.61 | 43.50 | -23.89 | peak |
| 5 | | 362.9844 | 9.03 | 12.85 | 21.88 | 46.00 | -24.12 | peak |
| 6 | | 851.0353 | 5.22 | 20.58 | 25.80 | 46.00 | -20.20 | peak |

RESULT: PASS

Note:

Factor=Antenna Factor + Cable loss, Margin= Result-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

In the test result mode 1 is the worst data and recorded in the report.

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8. FREQUENCY STABILITY

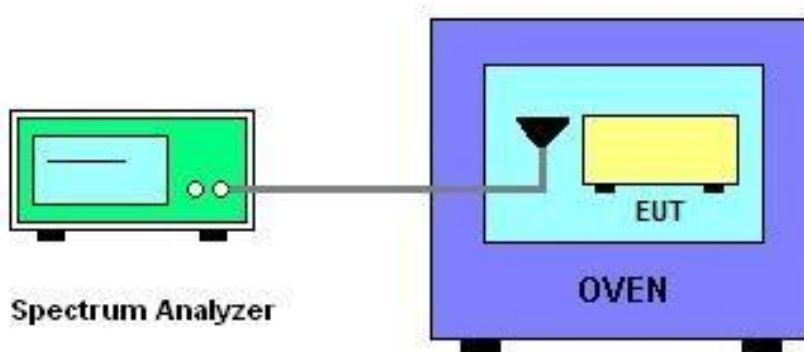
8.1. TEST LIMIT

The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ (100ppm) of the operating frequency over a temperature variation of 0 degrees to +40 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

8.2. MEASUREMENT PROCEDURE

1. The spectrum analyzer connected via a receive antenna placed near the EUT.
2. EUT have transmitted signal and fixed channelize.
3. Set the spectrum analyzer span to view the entire emissions bandwidth.
4. Set RBW = 1 kHz, VBW = 3 kHz with peak detector and maxhold settings.
5. The f_c is declaring of channel frequency. Then the frequency error formula is $(f_c - f)/f_c \times 10^6$ ppm and the limit is less than ± 100 ppm.
6. Extreme temperature rule is $-30^\circ\text{C} \sim 50^\circ\text{C}$.

8.3. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)



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8.4. MEASUREMENT RESULTS

Operating frequency: 13.56MHz

Voltage vs. Frequency Stability (Test Temperature: 20°C)

| Voltage(V) | Measurement Frequency (MHz) | Max. Deviation (ppm) | Limit(ppm) | Conclusion |
|------------|-----------------------------|----------------------|------------|------------|
| 3.80 | 13.56049 | +49 | ± 100 | PASS |
| 3.23 | 13.56066 | | | |
| 4.35 | 13.56058 | | | |

Temperature vs. Frequency Stability (Test Voltage: 3.8V)

| Temperature | Measurement Frequency (MHz) | Max. Deviation (ppm) | Limit(ppm) | Conclusion |
|-------------|-----------------------------|----------------------|------------|------------|
| -30°C | 13.56059 | +52 | ± 100 | PASS |
| -20°C | 13.56067 | | | |
| -10°C | 13.56060 | | | |
| 0°C | 13.56071 | | | |
| 10°C | 13.56059 | | | |
| 20°C | 13.56066 | | | |
| 30°C | 13.56067 | | | |
| 40°C | 13.56070 | | | |
| 50°C | 13.56073 | | | |

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9. 20 dB SPECTRUM BANDWIDTH

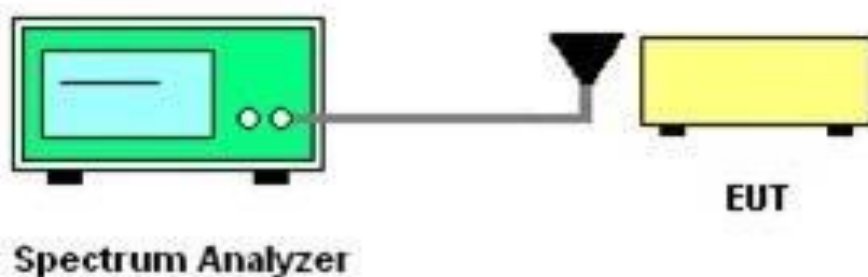
9.1. TEST LIMIT

Intentional radiators must be designed to ensure that the 20dB and 99% emission bandwidth in the specific band 13.553~13.567MHz

9.2. MEASUREMENT PROCEDURE

1. The spectrum analyzer connected via a receive antenna placed near the EUT in peak Max hold mode.
2. The resolution bandwidth of 10 kHz and the video bandwidth of 30 kHz were used.
3. Measured the spectrum width with power higher than 20dB below carrier.
4. Measured the 99% OBW.

9.3. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



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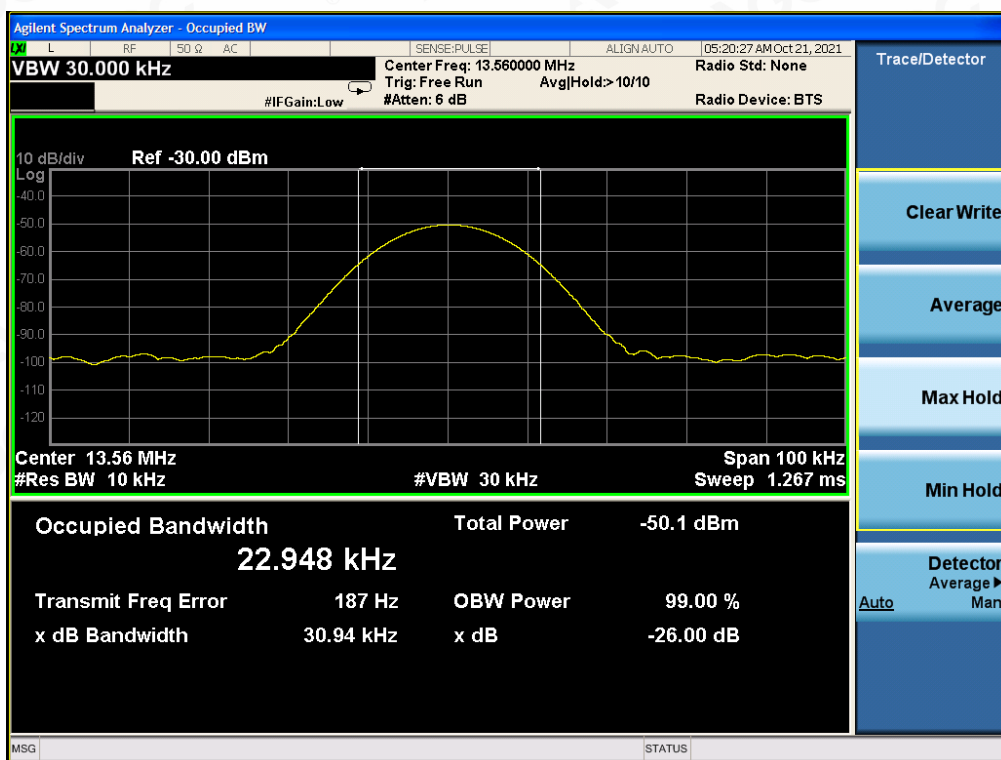
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9.4. MEASUREMENT RESULTS

| | | |
|-----------|-----------|--|
| TEST ITEM | BANDWIDTH | |
| TEST MODE | Mode1 | |

| Test Data (kHz) | | Criteria |
|--------------------|--------|----------|
| Occupied Bandwidth | 22.948 | PASS |
| -20dB Bandwidth | 30.94 | PASS |



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10. AC LINE CONDUCTED EMISSION TEST

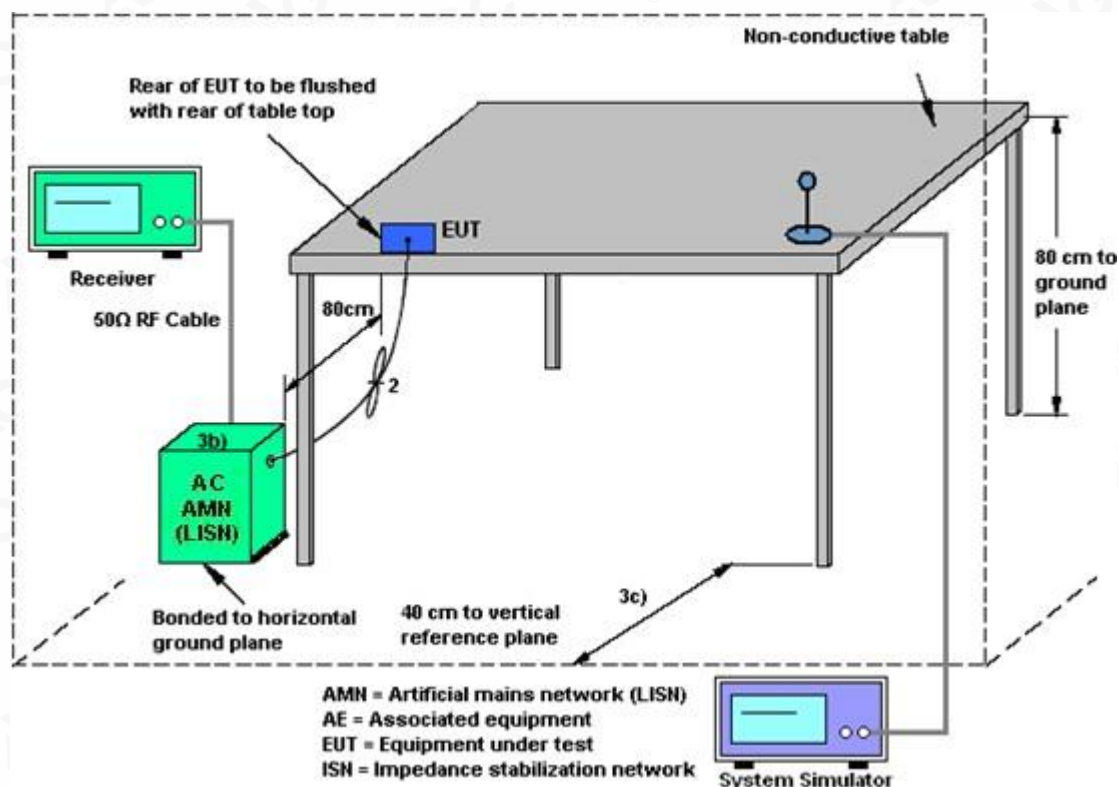
10.1. LIMITS OF LINE CONDUCTED EMISSION TEST

| Frequency | Maximum RF Line Voltage | |
|---------------|-------------------------|----------------|
| | Q.P.(dBuV) | Average(dBuV) |
| 150kHz~500kHz | 66-56 | 56-46 |
| 500kHz~5MHz | 56 | 46 |
| 5MHz~30MHz | 60 | 50 |

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

10.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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10.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipments received AC120V/60Hz power from a LISN, if any.
5. The EUT received charging voltage by adapter which received 120V/60Hz power by a LISN..
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

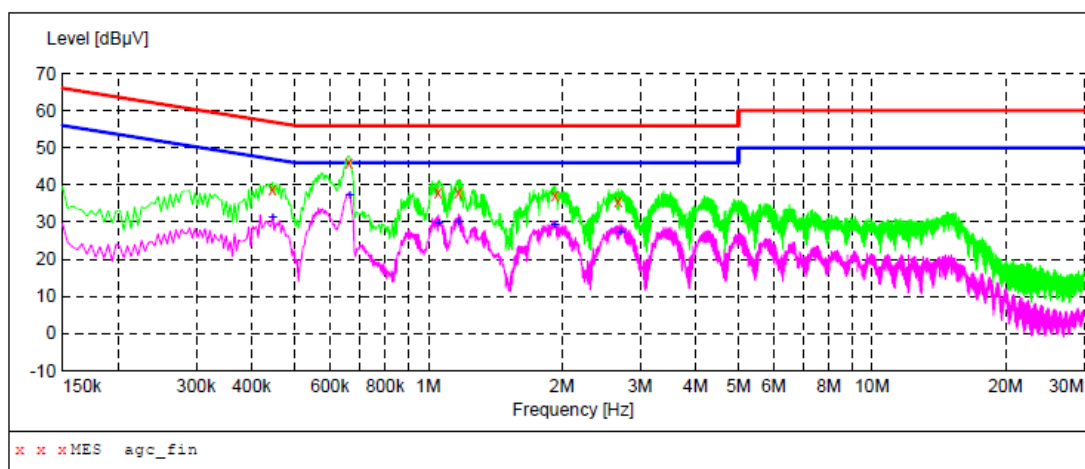
10.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less – 2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported on the Summary Data page.



10.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

LINE CONDUCTED EMISSION TEST LINE 1-L



MEASUREMENT RESULT: "agc_fin"

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line |
|------------------|---------------|--------------|---------------|--------------|----------|------|
| 0.446000 | 38.70 | 5.5 | 57 | 18.2 | QP | L1 |
| 0.662000 | 46.00 | 5.4 | 56 | 10.0 | QP | L1 |
| 1.054000 | 37.80 | 5.5 | 56 | 18.2 | QP | L1 |
| 1.170000 | 38.00 | 5.7 | 56 | 18.0 | QP | L1 |
| 1.930000 | 37.00 | 6.4 | 56 | 19.0 | QP | L1 |
| 2.678000 | 35.50 | 6.5 | 56 | 20.5 | QP | L1 |

MEASUREMENT RESULT: "agc_fin2"

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line |
|------------------|---------------|--------------|---------------|--------------|----------|------|
| 0.446000 | 31.00 | 5.5 | 47 | 15.9 | AV | L1 |
| 0.666000 | 37.00 | 5.4 | 46 | 9.0 | AV | L1 |
| 1.054000 | 29.70 | 5.5 | 46 | 16.3 | AV | L1 |
| 1.170000 | 30.00 | 5.7 | 46 | 16.0 | AV | L1 |
| 1.930000 | 29.30 | 6.4 | 46 | 16.7 | AV | L1 |
| 2.714000 | 27.10 | 6.5 | 46 | 18.9 | AV | L1 |

RESULT: PASS

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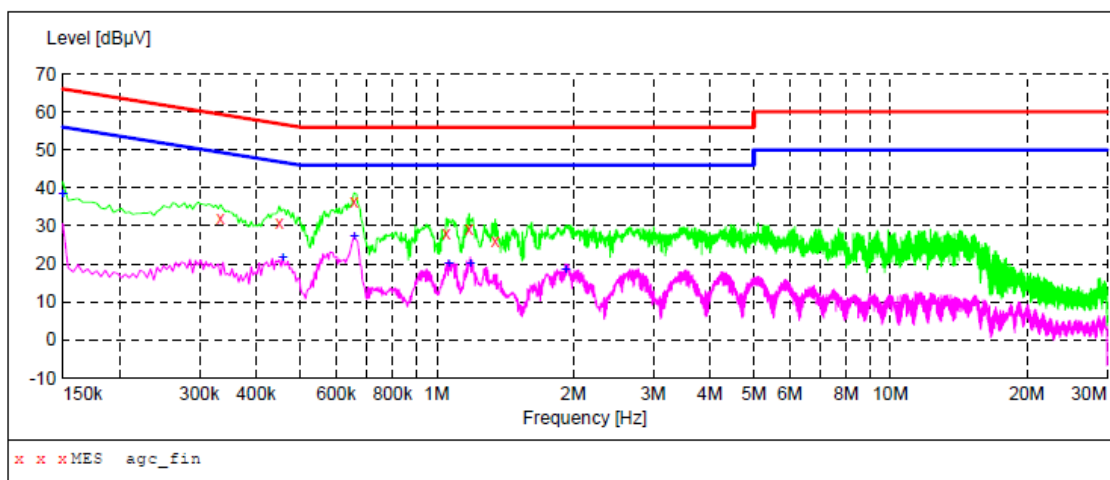
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Line Conducted Emission Test Line 2-N

**MEASUREMENT RESULT: "agc_fin"**

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line |
|------------------|---------------|--------------|---------------|--------------|----------|------|
| 0.334000 | 31.90 | 5.9 | 59 | 27.5 | QP | N |
| 0.450000 | 30.70 | 5.5 | 57 | 26.2 | QP | N |
| 0.658000 | 36.30 | 5.4 | 56 | 19.7 | QP | N |
| 1.050000 | 28.20 | 5.5 | 56 | 27.8 | QP | N |
| 1.178000 | 29.10 | 5.7 | 56 | 26.9 | QP | N |
| 1.346000 | 26.10 | 5.9 | 56 | 29.9 | QP | N |

MEASUREMENT RESULT: "agc_fin2"

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line |
|------------------|---------------|--------------|---------------|--------------|----------|------|
| 0.150000 | 38.40 | 6.9 | 56 | 17.6 | AV | N |
| 0.458000 | 21.60 | 5.5 | 47 | 25.1 | AV | N |
| 0.658000 | 27.40 | 5.4 | 46 | 18.6 | AV | N |
| 1.062000 | 19.90 | 5.5 | 46 | 26.1 | AV | N |
| 1.186000 | 20.20 | 5.7 | 46 | 25.8 | AV | N |
| 1.922000 | 18.50 | 6.4 | 46 | 27.5 | AV | N |

RESULT: PASS

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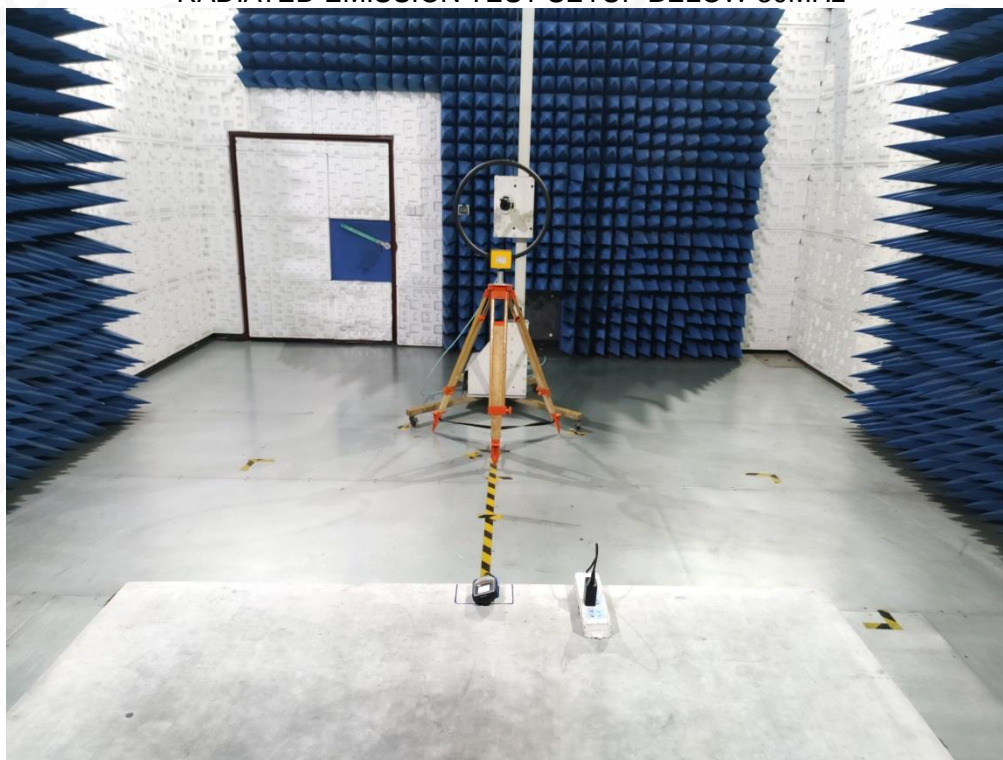


APPENDIX A: PHOTOGRAPHS OF TEST SETUP

LINE CONDUCTED EMISSION TEST SETUP



RADIATED EMISSION TEST SETUP BELOW 30MHz

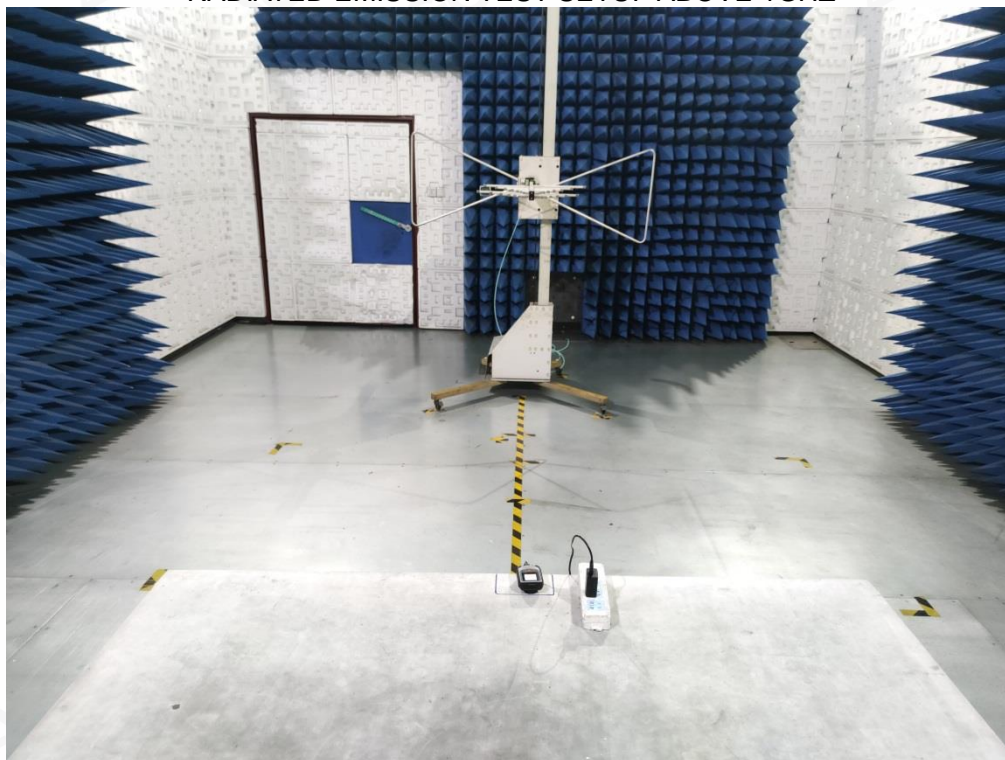


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RADIATED EMISSION TEST SETUP ABOVE 1GHZ



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APPENDIX B: PHOTOGRAPHS OF EUT

Refer to the Report No.: AGC10849211001AP01

----END OF REPORT----

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2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15 days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

