

# RF TEST REPORT

**FCC ID: 2BWRS-CEDAR**

Test Report No.....: RF260518004-01-001

Product(s) Name.....: ESL AP

Model(s).....: CEDAR

Trade Mark.....: HONORLINK

Applicant.....: ZHEJIANG HONORLINK DIGITAL TECHNOLOGY CO., LTD

Address.....: 3906, Jiangdong 3rd Road, Qiantang District, Hangzhou, Zhejiang  
Province

Receipt Date.....: 2026.06.10

Test Date.....: 2026.06.15 ~ 2026.06.22

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Standards.....: 47 CFR FCC Part 15, Subpart C(Section 15.247)  
ANSI C63.10:2020+Cor 1-2023

Testing Laboratory.....: Shenzhen Haiyun Standard Technical Co., Ltd.

| Prepared By:       | Checked By:       | Approved By:     |  |
|--------------------|-------------------|------------------|---------------------------------------------------------------------------------------|
| Jason Huang        | Black Ding        | Tim Zhang        |                                                                                       |
| <i>Jason Huang</i> | <i>Black Ding</i> | <i>Tim Zhang</i> |                                                                                       |

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## REPORT ISSUED HISTORY

Original Report Issue Date: 2026.06.23

- No additional attachment
- Additional attachments were issued following record

| Attachment No. | Issue Date | Description |
|----------------|------------|-------------|
|                |            |             |
|                |            |             |
|                |            |             |
|                |            |             |
|                |            |             |
|                |            |             |
|                |            |             |

## 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

| FCC CFR Title 47, Part 15, Subpart C |                                   |                                        |          |         |
|--------------------------------------|-----------------------------------|----------------------------------------|----------|---------|
| Standard(s) Section                  | Test Item                         | Test Result                            | Judgment | Remark  |
| 15.207                               | AC Power Line Conducted Emissions | APPENDIX A                             | PASS     | N/A     |
| 15.247(d)<br>15.205(a)<br>15.209(a)  | Radiated Emissions                | APPENDIX B<br>APPENDIX C<br>APPENDIX D | PASS     | -----   |
| 15.247(a)(2)                         | Bandwidth                         | APPENDIX E                             | PASS     | -----   |
| 15.247(b)(3)                         | Maximum Output Power              | APPENDIX F                             | PASS     | -----   |
| 15.247(d)                            | Conducted Spurious Emission       | APPENDIX G                             | PASS     | -----   |
| 15.247(e)                            | Power Spectral Density            | APPENDIX H                             | PASS     | -----   |
| 15.203                               | Antenna Requirement               | -----                                  | PASS     | Note(2) |

Note:

- (1) "N/A" denotes test is not applicable to this device.
- (2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.

## 1.1 TEST FACILITY

|                           |                                                                                             |
|---------------------------|---------------------------------------------------------------------------------------------|
| Company:                  | Shenzhen Haiyun Standard Technical Co., Ltd.                                                |
| Address:                  | No. 110-113, 115, 116, Block B, Jinyuan Business Building, Bao'an District, Shenzhen, China |
| CNAS Registration Number: | CNAS L18252                                                                                 |
| CAB identifier            | CN0145                                                                                      |
| FCC Designation Number    | CN1340                                                                                      |
| A2LA Certificate Number   | 6823.01                                                                                     |

## 1.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ( $k=2$ ))

| Uncertainty                            |                      |
|----------------------------------------|----------------------|
| Parameter                              | Uncertainty          |
| Occupied Channel Bandwidth             | $\pm 102\text{kHz}$  |
| RF power conducted                     | $\pm 0.243\text{dB}$ |
| Power Spectral Density                 | $\pm 0.743\text{dB}$ |
| Conducted Spurious Emission            | $\pm 1.328\text{dB}$ |
| Time                                   | $\pm 0.19\%$         |
| Conducted emission(9kHz~30MHz) AC main | $\pm 2.68\text{dB}$  |
| Radiated emission(9kHz~30MHz)          | $\pm 3.50\text{dB}$  |
| Radiated emission (30MHz~1GHz)         | $\pm 4.20\text{dB}$  |
| Radiated emission (1GHz~18GHz)         | $\pm 5.10\text{dB}$  |
| Radiated emission (18GHz~40GHz)        | $\pm 5.26\text{dB}$  |

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

## 1.3 TEST ENVIRONMENT CONDITIONS

| Test Item                             | Temperature | Humidity | Test Voltage | Tested By   |
|---------------------------------------|-------------|----------|--------------|-------------|
| AC Power Line Conducted Emissions     | 24.3°C      | 51%      | AC 120V/60Hz | Keith Huang |
| Radiated Emissions-9 kHz to 30 MHz    | 24.0°C      | 54%      | AC 120V/60Hz | Lemon He    |
| Radiated Emissions-30 MHz to 1000 MHz | 24.0°C      | 54%      | AC 120V/60Hz | Lemon He    |
| Radiated Emissions-Above 1000 MHz     | 24.0°C      | 54%      | AC 120V/60Hz | Lemon He    |
| Bandwidth                             | 23.1°C      | 49%      | AC 120V/60Hz | Elio Lin    |
| Maximum Output Power                  | 23.1°C      | 49%      | AC 120V/60Hz | Elio Lin    |
| Conducted Spurious Emission           | 23.1°C      | 49%      | AC 120V/60Hz | Elio Lin    |
| Power Spectral Density                | 23.1°C      | 49%      | AC 120V/60Hz | Elio Lin    |

Note: Adapter supply voltage AC 120V/60Hz.

The applicant declare the operating environment of EUT as below:

Normal conditions: DC 12V, 0~40°C

## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

|                         |                                                                                         |
|-------------------------|-----------------------------------------------------------------------------------------|
| Sample No.              | POC260518004-S001                                                                       |
| Product name            | ESL AP                                                                                  |
| Model name              | CEDAR                                                                                   |
| Trade Mark              | HONORLINK                                                                               |
| Power supply            | DC 12V from adapter & DC 48V from POE adapter                                           |
| Adapter                 | Model: SG-120100012AU<br>Input: 100-240V~ 50/60Hz 0.6A Max<br>Output: 12.0V==1.0A 12.0W |
| Operate temperature     | 0°C-50°C                                                                                |
| Operation Frequency     | 2401 MHz ~ 2461 MHz                                                                     |
| Modulation Type         | GFSK                                                                                    |
| Bit Rate of Transmitter | 1Mbps                                                                                   |
| Max. Output Power       | Module1: -1.35 dBm (0.0007W)<br>Module2: -0.90 dBm (0.0008W)                            |
| Antenna gain            | 3.67dBi                                                                                 |
| Antenna type            | Integrated Antenna                                                                      |

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. Channel List:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|---------|-----------------|
| 01      | 2401            | 22      | 2422            | 43      | 2443            |
| 02      | 2402            | 23      | 2423            | 44      | 2444            |
| 03      | 2403            | 24      | 2424            | 45      | 2445            |
| 04      | 2404            | 25      | 2425            | 46      | 2446            |
| 05      | 2405            | 26      | 2426            | 47      | 2447            |
| 06      | 2406            | 27      | 2427            | 48      | 2448            |
| 07      | 2407            | 28      | 2428            | 49      | 2449            |
| 08      | 2408            | 29      | 2429            | 50      | 2450            |
| 09      | 2409            | 30      | 2430            | 51      | 2451            |
| 10      | 2410            | 31      | 2431            | 52      | 2452            |
| 11      | 2411            | 32      | 2432            | 53      | 2453            |
| 12      | 2412            | 33      | 2433            | 54      | 2454            |
| 13      | 2413            | 34      | 2434            | 55      | 2455            |
| 14      | 2414            | 35      | 2435            | 56      | 2456            |
| 15      | 2415            | 36      | 2436            | 57      | 2457            |
| 16      | 2416            | 37      | 2437            | 58      | 2458            |
| 17      | 2417            | 38      | 2438            | 59      | 2459            |
| 18      | 2418            | 39      | 2439            | 60      | 2460            |
| 19      | 2419            | 40      | 2440            | 61      | 2461            |
| 20      | 2420            | 41      | 2441            |         |                 |
| 21      | 2421            | 42      | 2442            |         |                 |

## 2.2 DESCRIPTION OF TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

| Pretest Mode | Description                            |
|--------------|----------------------------------------|
| Mode 1       | Module1 TX Mode_1Mbps Channel 01/30/61 |
| Mode 2       | Module2 TX Mode_1Mbps Channel 01/30/61 |
| Mode 3       | Module1 TX Mode_1Mbps Channel 01       |
| Mode 4       | Module2 TX Mode_1Mbps Channel 01       |

Following mode(s) was (were) found to be the worst case(s) and selected for the final test.

| AC power line conducted emissions test |                                  |
|----------------------------------------|----------------------------------|
| Final Test Mode                        | Description                      |
| Mode 3                                 | Module1 TX Mode_1Mbps Channel 01 |
| Mode 4                                 | Module2 TX Mode_1Mbps Channel 01 |

| Radiated emissions test – Below 1GHz |                                  |
|--------------------------------------|----------------------------------|
| Final Test Mode                      | Description                      |
| Mode 3                               | Module1 TX Mode_1Mbps Channel 01 |
| Mode 4                               | Module2 TX Mode_1Mbps Channel 01 |

| Radiated emissions test – Above 1GHz |                                        |
|--------------------------------------|----------------------------------------|
| Final Test Mode                      | Description                            |
| Mode 1                               | Module1 TX Mode_1Mbps Channel 01/30/61 |
| Mode 2                               | Module2 TX Mode_1Mbps Channel 01/30/61 |

| Conducted test  |                                        |
|-----------------|----------------------------------------|
| Final Test Mode | Description                            |
| Mode 1          | Module1 TX Mode_1Mbps Channel 01/30/61 |
| Mode 2          | Module2 TX Mode_1Mbps Channel 01/30/61 |

Note:

- (1) For radiated emission above 1 GHz test, the spurious points of 1GHz~18GHz and 18GHz~26.5GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
- (2) For AC power line conducted emissions and radiated emissions below 1 GHz test, the Module1 TX Mode\_1Mbps Channel 01 and Module2 TX Mode\_1Mbps Channel 01 is found to be the worst case and recorded.

## 2.3 PARAMETERS OF TEST SOFTWARE

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

Module1

|                       |         |         |         |
|-----------------------|---------|---------|---------|
| Test Software Version | UART FF |         |         |
| Frequency (MHz)       | 2401    | 2430    | 2461    |
| 1Mbps                 | Default | Default | Default |

Module2

|                       |         |         |         |
|-----------------------|---------|---------|---------|
| Test Software Version | UART FF |         |         |
| Frequency (MHz)       | 2401    | 2430    | 2461    |
| 1Mbps                 | Default | Default | Default |

## 2.4 SUPPORT UNITS

| No. | Equipment   | Model             | Manufacturer | Series No |
|-----|-------------|-------------------|--------------|-----------|
| 1   | POE Adapter | CRT-POE20-480050A | /            | /         |

### 3. AC POWER LINE CONDUCTED EMISSIONS

#### 3.1 LIMIT

| Frequency of Emission (MHz) | Limit (dBμV) |           |
|-----------------------------|--------------|-----------|
|                             | Quasi-peak   | Average   |
| 0.15 - 0.5                  | 66 to 56*    | 56 to 46* |
| 0.5 - 5.0                   | 56           | 46        |
| 5.0 - 30.0                  | 60           | 50        |

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

#### 3.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

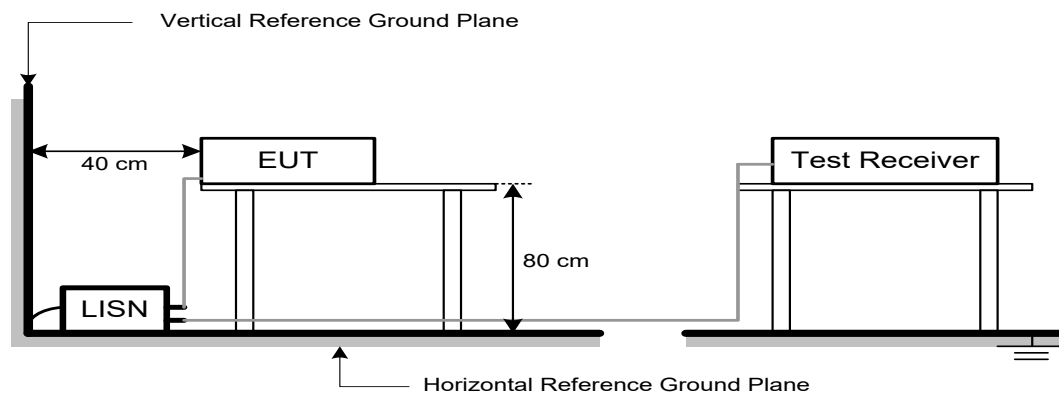
The following table is the setting of the receiver:

| Receiver Parameters | Setting  |
|---------------------|----------|
| Start Frequency     | 0.15 MHz |
| Stop Frequency      | 30 MHz   |
| IF Bandwidth        | 9 kHz    |

#### 3.3 DEVIATION FROM TEST STANDARD

No deviation.

### 3.4 TEST SETUP



### 3.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

### 3.6 TEST RESULTS

Please refer to the APPENDIX A.

Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of 『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform in this case, a “\*” marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150 kHz to 30 MHz.

## 4. RADIATED EMISSIONS

### 4.1 LIMIT

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

#### LIMITS OF RADIATED EMISSION MEASUREMENT (9 kHz-1000 MHz)

| Frequency<br>(MHz) | Field Strength<br>(microvolts/meter) | Measurement Distance<br>(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                                |

#### LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000 MHz)

| Frequency (MHz) | (dBuV/m at 3 m) |         |
|-----------------|-----------------|---------|
|                 | Peak            | Average |
| Above 1000      | 74              | 54      |

Note:

- (1) The limit for radiated test was performed according to FCC CFR Title 47, Part 15, Subpart C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

## 4.2 TEST PROCEDURE

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1 GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.  
(below 1 GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1 GHz)
- i. For the actual test configuration, please refer to the related Item –EUT Test Photos.

The following table is the setting of the receiver:

| Spectrum Parameters    | Setting                         |
|------------------------|---------------------------------|
| Start ~ Stop Frequency | 9 kHz~150 kHz for RBW 200 Hz    |
| Start ~ Stop Frequency | 0.15 MHz~30 MHz for RBW 9 kHz   |
| Start ~ Stop Frequency | 30 MHz~1000 MHz for RBW 100 kHz |

| Spectrum Parameters                        | Setting                                                    |
|--------------------------------------------|------------------------------------------------------------|
| Start Frequency                            | 1000 MHz                                                   |
| Stop Frequency                             | 10th carrier harmonic                                      |
| RBW / VBW<br>(Emission in restricted band) | 1 MHz / 3 MHz for PK value<br>1 MHz / 1/T Hz for AVG value |

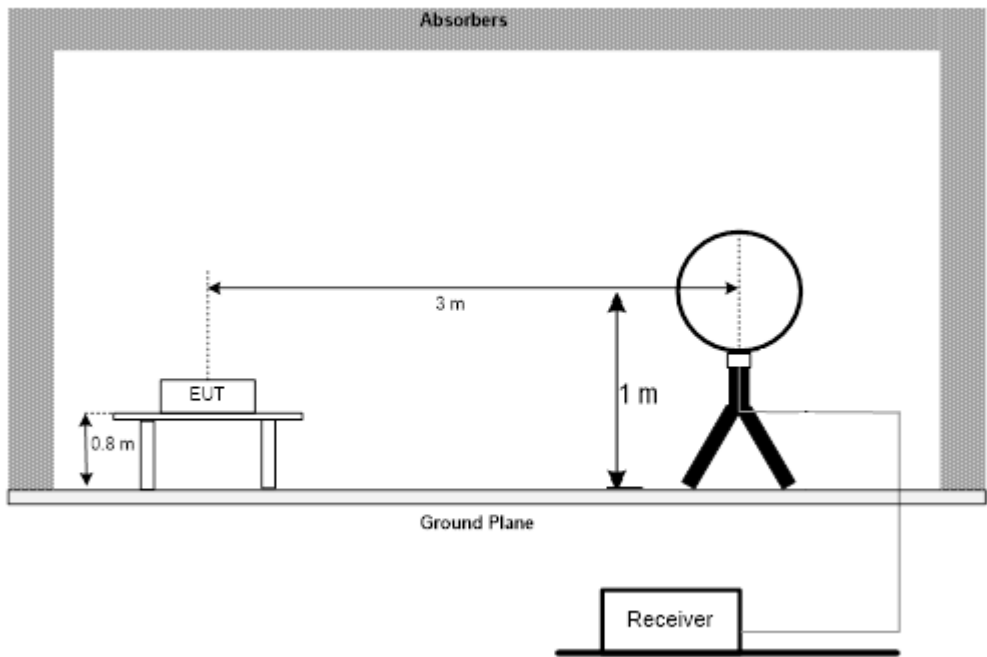
| Spectrum Parameters    | Setting                             |
|------------------------|-------------------------------------|
| Start ~ Stop Frequency | 9 kHz~90 kHz for PK/AVG detector    |
| Start ~ Stop Frequency | 90 kHz~110 kHz for QP detector      |
| Start ~ Stop Frequency | 110 kHz~490 kHz for PK/AVG detector |
| Start ~ Stop Frequency | 490 kHz~30 MHz for QP detector      |
| Start ~ Stop Frequency | 30 MHz~1000 MHz for QP detector     |
| Start ~ Stop Frequency | 1 GHz~26.5 GHz for PK/AVG detector  |

4.3 DEVIATION FROM TEST STANDARD

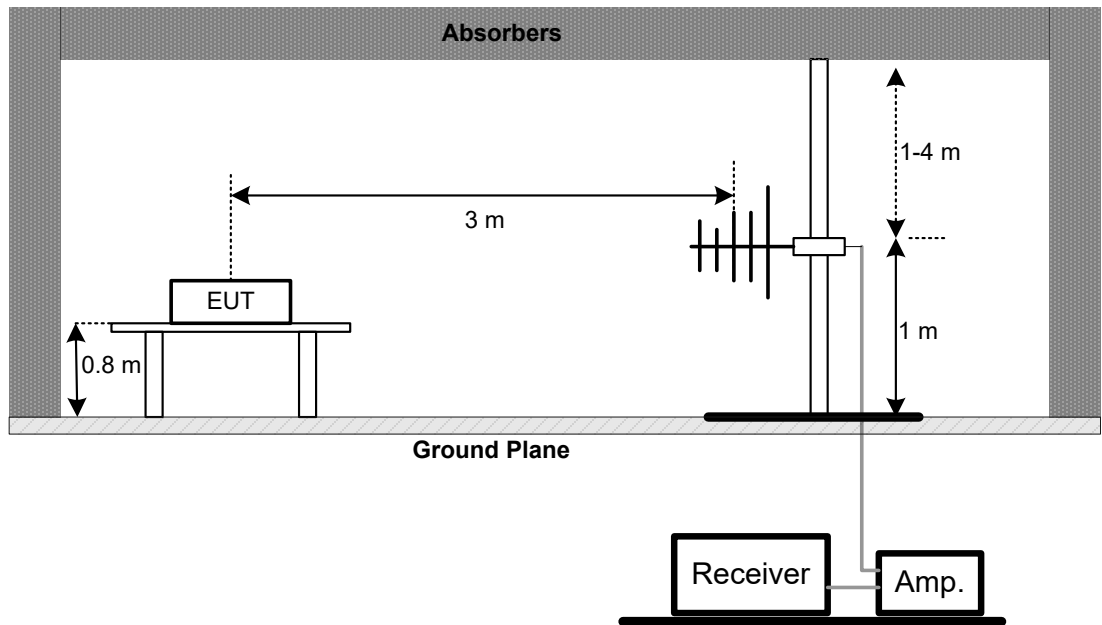
No deviation.

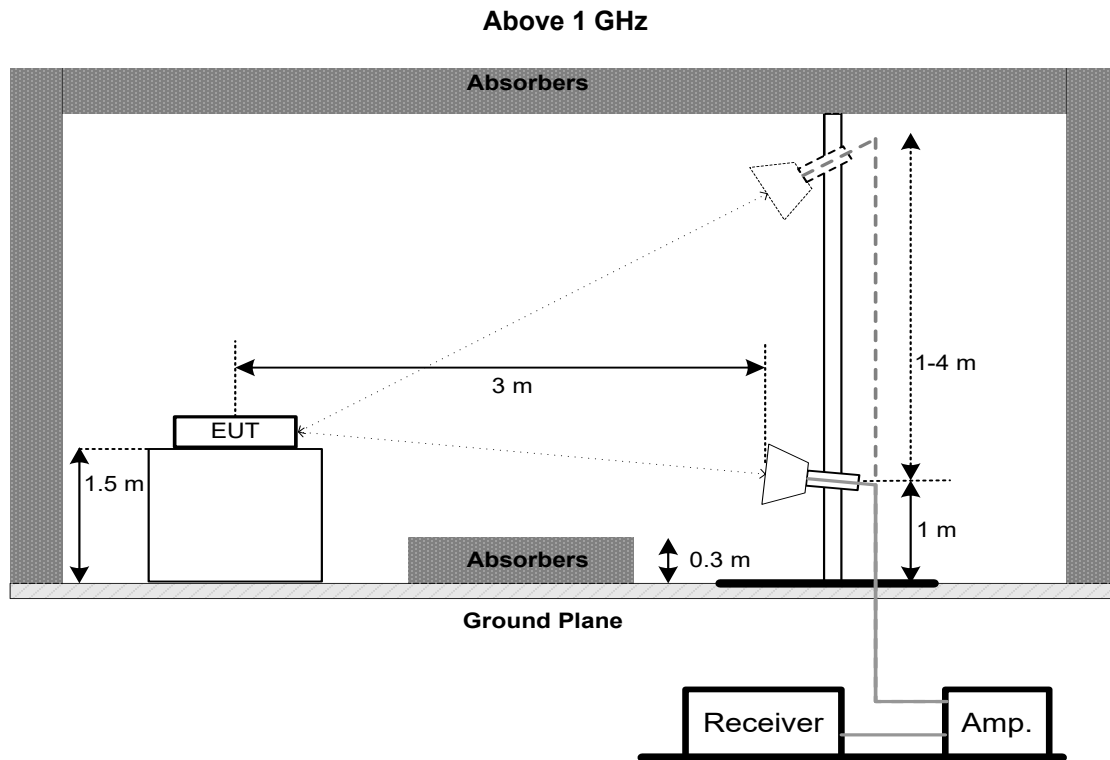
4.4 TEST SETUP

9 kHz to 30 MHz



30 MHz to 1 GHz





#### 4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 4.6 TEST RESULT - 9 kHz TO 30 MHz

Please refer to the APPENDIX B

Remark:

- (1) Distance extrapolation factor =  $40 \log (\text{specific distance} / \text{test distance})$  (dB).
- (2) Limit line = specific limits (dBuV) + distance extrapolation factor.

#### 4.7 TEST RESULT - 30 MHz TO 1000 MHz

Please refer to the APPENDIX C.

#### 4.8 TEST RESULT - ABOVE 1000 MHz

Please refer to the APPENDIX D.

Remark:

- (1) No limit: This is fundamental signal, the judgment is not applicable.  
For fundamental signal judgment was referred to Peak output test.

## 5. BANDWIDTH

### 5.1 LIMIT

| Section          | Test Item              | Limit          |
|------------------|------------------------|----------------|
| FCC 15.247(a)(2) | 6 dB Bandwidth         | $\geq 500$ kHz |
|                  | 99% Emission Bandwidth | -              |

### 5.2 TEST PROCEDURE

- The EUT was directly connected to the tonscend test system and antenna output port as show in the block diagram below.
- The following table is the setting of the spectrum analyzer:

For 6 dB Bandwidth:

| Spectrum Parameters | Setting                   |
|---------------------|---------------------------|
| Span Frequency      | $>$ Measurement Bandwidth |
| RBW                 | 100 kHz                   |
| VBW                 | 300 kHz                   |
| Detector            | Peak                      |
| Trace               | Max Hold                  |
| Sweep Time          | Auto                      |

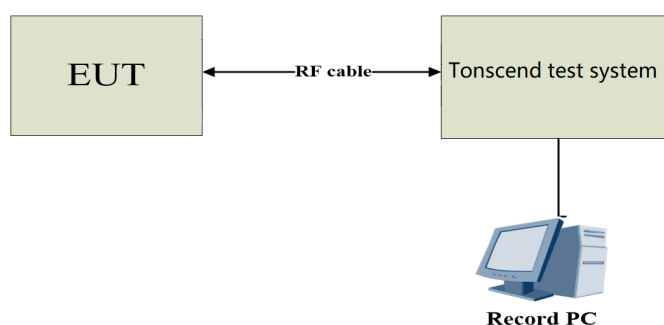
For 99% Emission Bandwidth:

| Spectrum Parameters | Setting                                 |
|---------------------|-----------------------------------------|
| Span Frequency      | Between 1.5 times and 5.0 times the OBW |
| RBW                 | 1% to 5% of the OBW                     |
| VBW                 | approximately three times RBW           |
| Detector            | Peak                                    |
| Trace               | Max Hold                                |
| Sweep Time          | Auto                                    |

### 5.3 DEVIATION FROM STANDARD

No deviation.

### 5.4 TEST SETUP



### 5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 5.6 TEST RESULTS

Please refer to the APPENDIX E.

## 6. MAXIMUM OUTPUT POWER

### 6.1 LIMIT

| Section          | Test Item            | Limit                    |
|------------------|----------------------|--------------------------|
| FCC 15.247(b)(3) | Maximum Output Power | 1.0000 watt or 30.00 dBm |

### 6.2 TEST PROCEDURE

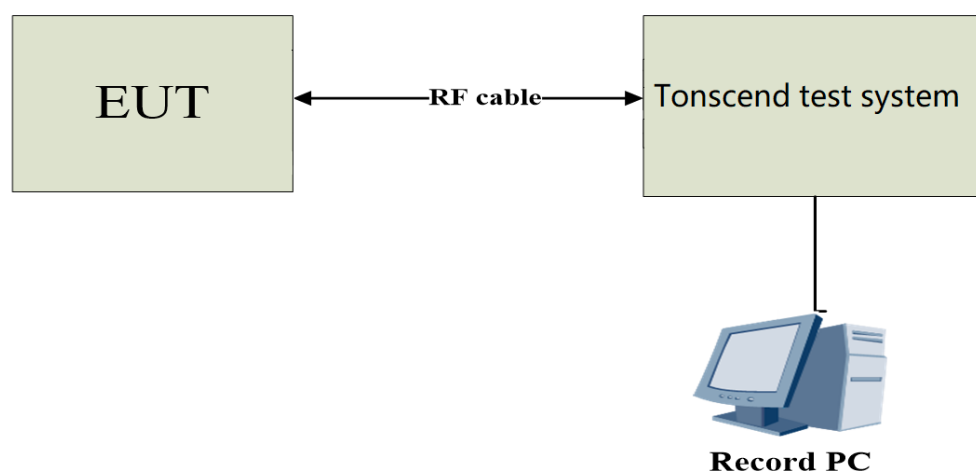
- The EUT was directly connected to the tonscend test system and antenna output port as show in the block diagram below.
- The following table is the setting of the spectrum analyzer:

| Spectrum Parameters | Setting                    |
|---------------------|----------------------------|
| Span Frequency      | $\geq 3 \times \text{RBW}$ |
| RBW                 | 2 MHz                      |
| VBW                 | 6 MHz                      |
| Detector            | Peak                       |
| Trace               | Max Hold                   |
| Sweep Time          | Auto                       |

### 6.3 DEVIATION FROM STANDARD

No deviation.

### 6.4 TEST SETUP



### 6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 6.6 TEST RESULTS

Please refer to the APPENDIX F

## 7. CONDUCTED SPURIOUS EMISSION

### 7.1 LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak Output Power limits. If the transmitter complies with the Output Power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required.

### 7.2 TEST PROCEDURE

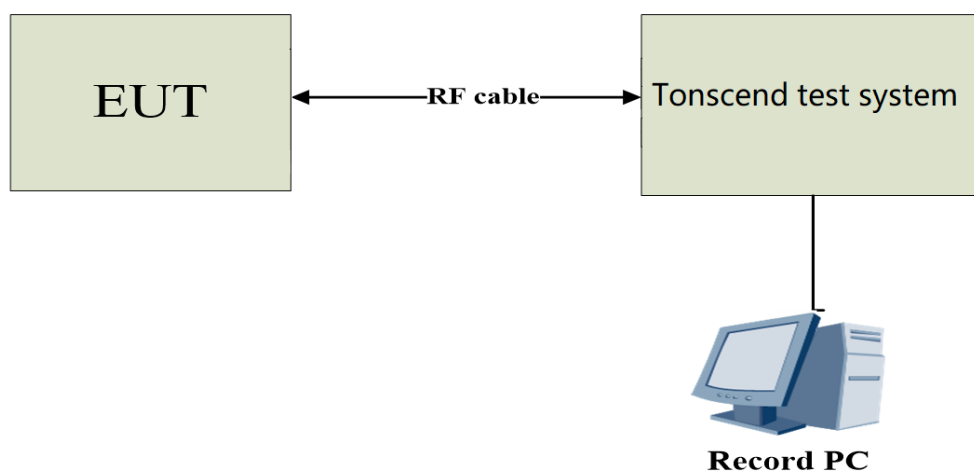
- The EUT was directly connected to the tonscend test system and antenna output port as show in the block diagram below.
- The following table is the setting of the spectrum analyzer:

| Spectrum Parameters | Setting  |
|---------------------|----------|
| Start Frequency     | 30 MHz   |
| Stop Frequency      | 26.5 GHz |
| RBW                 | 100 kHz  |
| VBW                 | 300 kHz  |
| Detector            | Peak     |
| Trace               | Max Hold |
| Sweep Time          | Auto     |

### 7.3 DEVIATION FROM STANDARD

No deviation.

### 7.4 TEST SETUP



### 7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 7.6 TEST RESULTS

Please refer to the APPENDIX G.

## 8. POWER SPECTRAL DENSITY

### 8.1 LIMIT

| Section       | Test Item              | Limit                   |
|---------------|------------------------|-------------------------|
| FCC 15.247(e) | Power Spectral Density | 8 dBm<br>(in any 3 kHz) |

### 8.2 TEST PROCEDURE

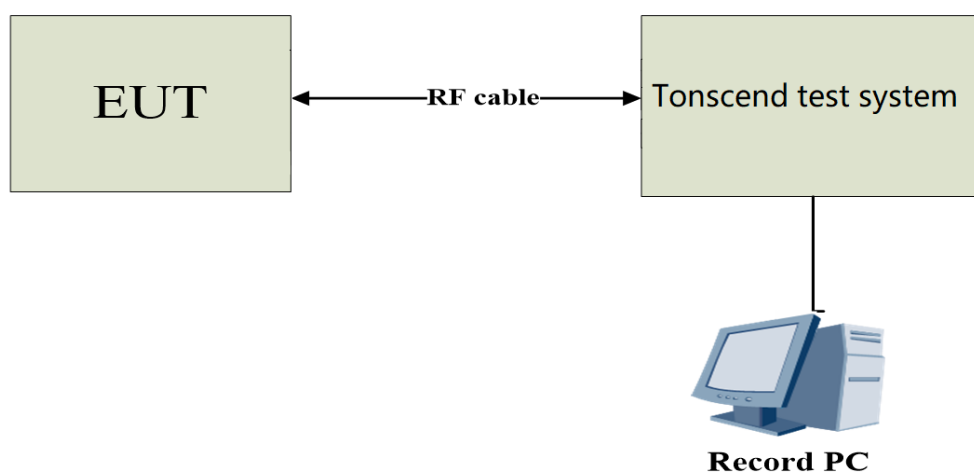
- The EUT was directly connected to the tonscend test system and antenna output port as show in the block diagram below.
- The following table is the setting of the spectrum analyzer:

| Spectrum Parameters | Setting                 |
|---------------------|-------------------------|
| Span Frequency      | 1.5 times DTS bandwidth |
| RBW                 | 3 kHz                   |
| VBW                 | 10 kHz                  |
| Detector            | Peak                    |
| Trace               | Max Hold                |
| Sweep Time          | Auto                    |

### 8.3 DEVIATION FROM STANDARD

No deviation.

### 8.4 TEST SETUP



### 8.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 8.6 TEST RESULTS

Please refer to the APPENDIX H.

## 9. MEASUREMENT INSTRUMENTS LIST

| No.                    | Name of Equipment                   | Manufacturer              | Model Number          | Serial Number          | Inventory No. | Last Calibration | Due Calibration |
|------------------------|-------------------------------------|---------------------------|-----------------------|------------------------|---------------|------------------|-----------------|
| Radiated Emission      |                                     |                           |                       |                        |               |                  |                 |
| 1                      | Test receiver                       | Rohde&Schwarz             | ESU                   | 100184                 | JLE011        | 2026/2/27        | 2027/2/26       |
| 2                      | Log periodic antenna                | Schwarzbeck               | VULB 9168             | 1151                   | JLE012        | 2025/4/12        | 2028/4/11       |
| 3                      | Low frequency amplifier             | /                         | LNA 0920N             | 2014                   | JLE023        | 2026/2/27        | 2027/2/26       |
| 4                      | High frequency amplifier            | Schwarzbeck               | BBV 9718              | 9718-284               | JLE024        | 2026/2/27        | 2027/2/26       |
| 5                      | Horn Antenna                        | SCHWARZBECK               | BBHA 9120 D           | 02670                  | JLE028        | 2025/4/12        | 2028/4/11       |
| 6                      | Temp&Humidity Recorder              | Meideshi                  | JR900                 | /                      | JLE021        | 2026/4/8         | 2027/4/7        |
| 7                      | Horn Antenna                        | SCHWARZBECK               | BBHA 9170             | 9170#685               | JLE029        | 2024/7/15        | 2027/7/14       |
| 8                      | Loop Antenna                        | SCHWARZBECK               | FMZB1519B             | 00029                  | JLE030        | 2024/7/15        | 2027/7/14       |
| 9                      | Broadband preamplifier              | Schwarzbeck               | BBV9721               | 9721-019               | JLE025        | 2026/2/27        | 2027/2/26       |
| 10                     | Test software                       | Farad Technology Co., Ltd | EZ-EMC Ver.TW-03A2    |                        |               |                  |                 |
| Conducted Emission     |                                     |                           |                       |                        |               |                  |                 |
| 1                      | LISN                                | Rohde&Schwarz             | ENV216                | 100075                 | JLE002        | 2026/2/27        | 2027/2/26       |
| 2                      | ISN                                 | Schwarzbeck               | CATE 5 8158           | #171                   | JLE003        | 2026/2/27        | 2027/2/26       |
| 3                      | ISN                                 | Schwarzbeck               | CAT 3 8158            | 00187                  | JLE032        | 2026/2/27        | 2027/2/26       |
| 4                      | Test receiver                       | Rohde&Schwarz             | ESCI                  | 100718                 | JLE010        | 2026/2/27        | 2027/2/26       |
| 5                      | Pulse limiter                       | Rohde&Schwarz             | ESH3-Z2               | 102299                 | JLE047        | 2026/2/27        | 2027/2/26       |
| 6                      | Temp&Humidity Recorder              | Meideshi                  | JR900                 | /                      | JLE020        | 2026/4/8         | 2027/4/7        |
| 7                      | Test software                       | Farad Technology Co., Ltd | EZ-EMC Ver.TW-03A2    |                        |               |                  |                 |
| RF Conducted Emissions |                                     |                           |                       |                        |               |                  |                 |
| 1                      | MXA Signal Analyzer                 | Keysight                  | N9010A                | MY51440158             | JLE087        | 2025/9/15        | 2026/9/14       |
| 2                      | RF Control Unit                     | dsusoft                   | JS0806-2              | 21G8060449             | JLE053        | 2026/2/27        | 2027/2/26       |
| 3                      | power supply unit                   | dsusoft                   | JS0806-4ADC           | N/A                    | JLE055        | 2026/2/27        | 2027/2/26       |
| 4                      | VXG Signal Generator                | Keysight                  | N5182B                | MY59100855             | JLE068        | 2026/4/11        | 2027/4/10       |
| 5                      | EXG Analog Signal Generator         | Keysight                  | N5173B                | MY59101282             | JLE052        | 2026/2/27        | 2027/2/26       |
| 6                      | Wideband Radio Communication Tester | Rohde&Schwarz             | CMW500                | 1201.0002K50-116064-Dt | JLE054        | 2026/2/27        | 2027/2/26       |
| 7                      | Test software                       | dsusoft                   | JS1120-3 Ver.3.2.22.0 |                        |               |                  |                 |

## **10. ANTENNA REQUIREMENT**

Test standard: FCC part 15.203

According to the manufacturer declared, the EUT has one Interior antenna, the antenna gain is 3.67dBi and the antenna connector is designed with permanent attachment.

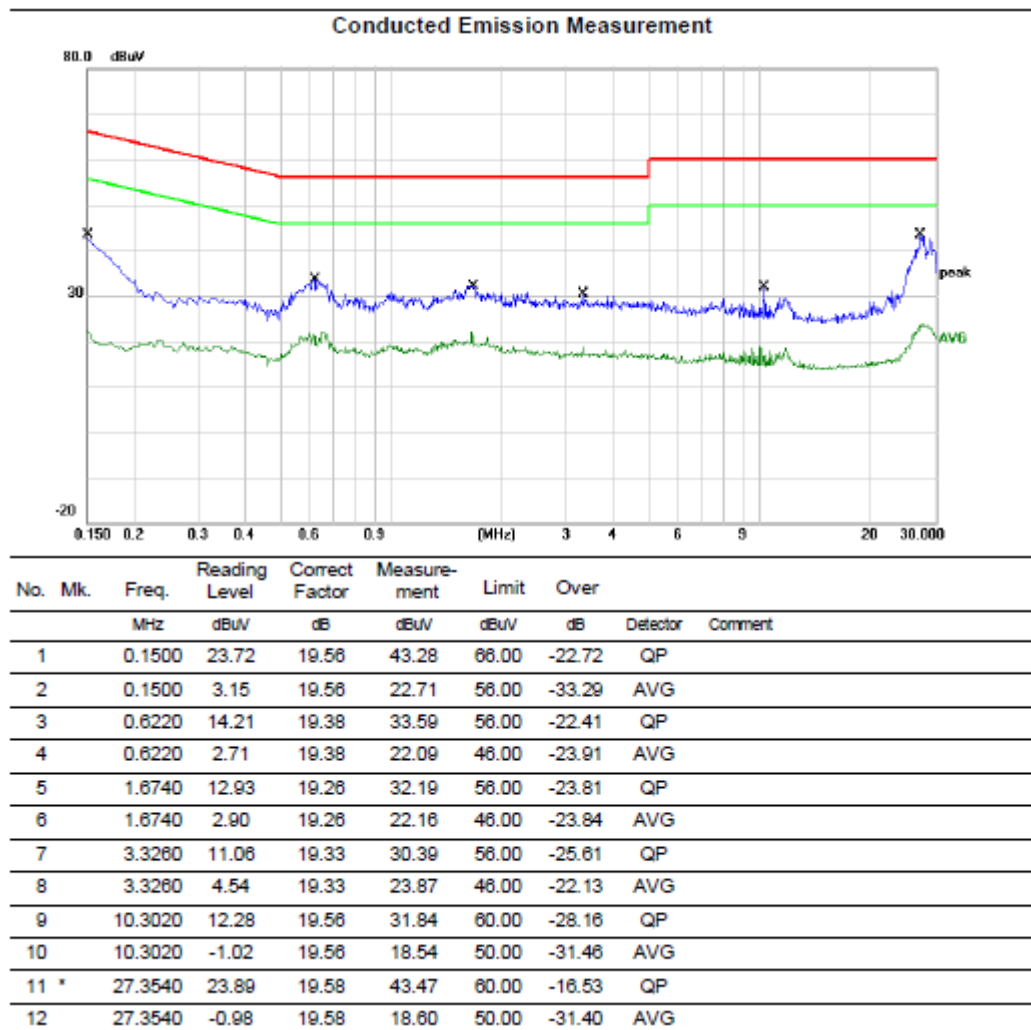
Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

## **APPENDIX A- AC POWER LINE CONDUCTED EMISSIONS**

## Module1

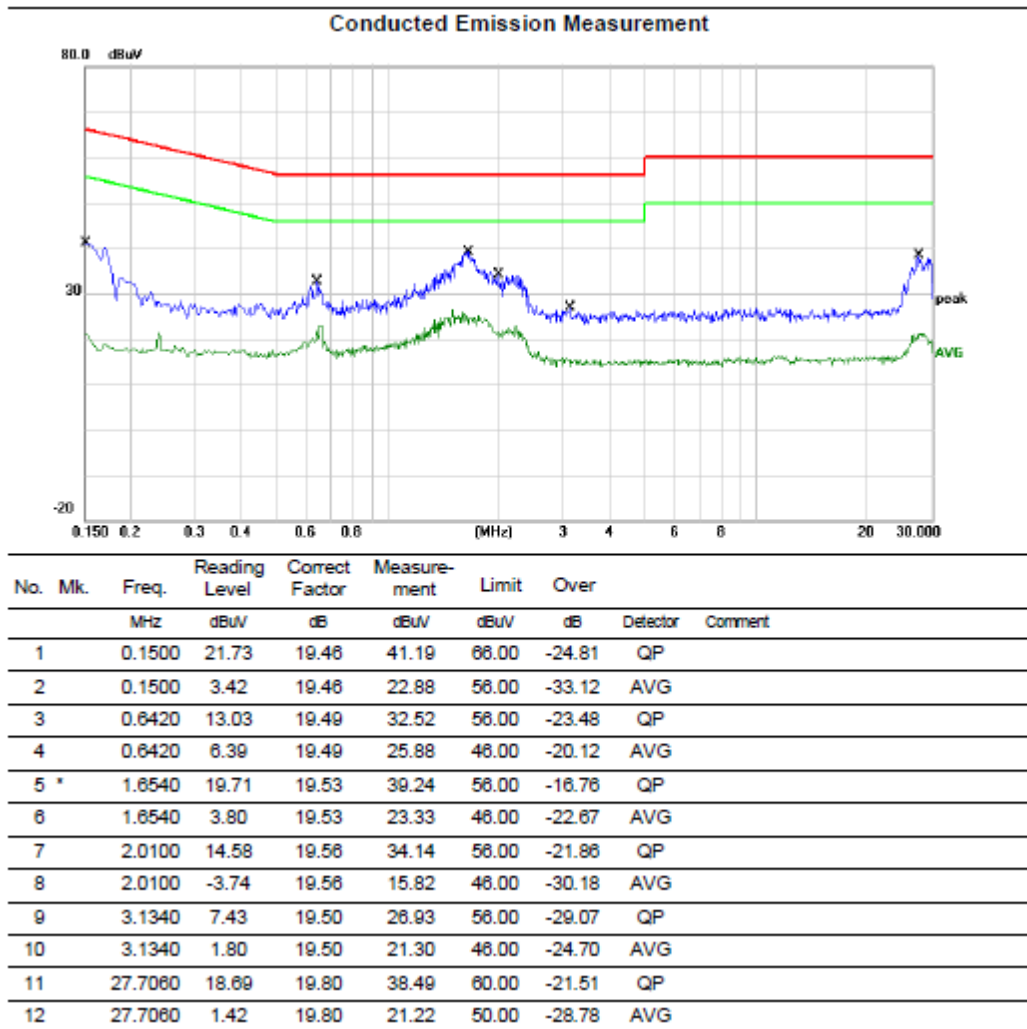
|           |                                     |       |      |
|-----------|-------------------------------------|-------|------|
| Test Mode | DC Adapter TX Mode_1Mbps Channel 01 | Phase | Line |
|-----------|-------------------------------------|-------|------|



## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.  
 (2) Margin Level = Measurement Value - Limit Value.

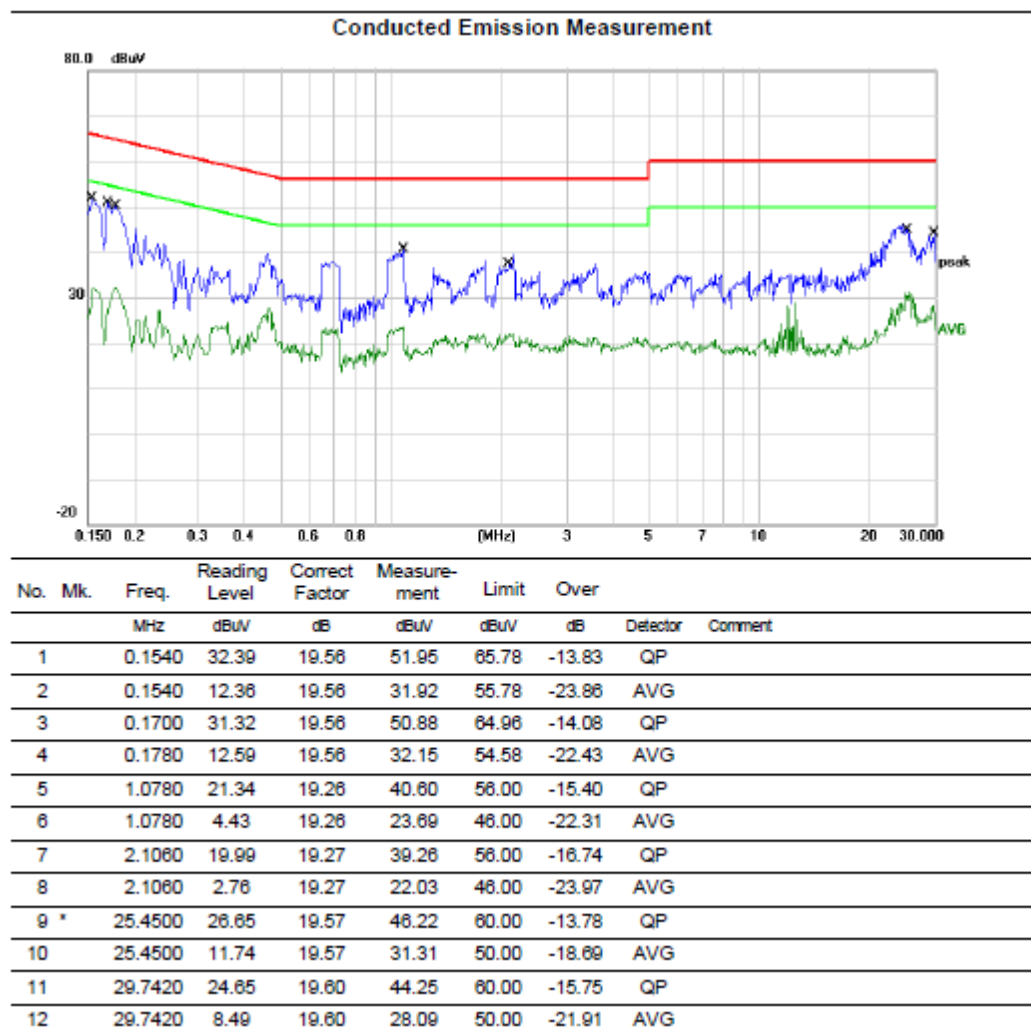
|           |                                     |       |         |
|-----------|-------------------------------------|-------|---------|
| Test Mode | DC Adapter TX Mode_1Mbps Channel 01 | Phase | Neutral |
|-----------|-------------------------------------|-------|---------|



**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

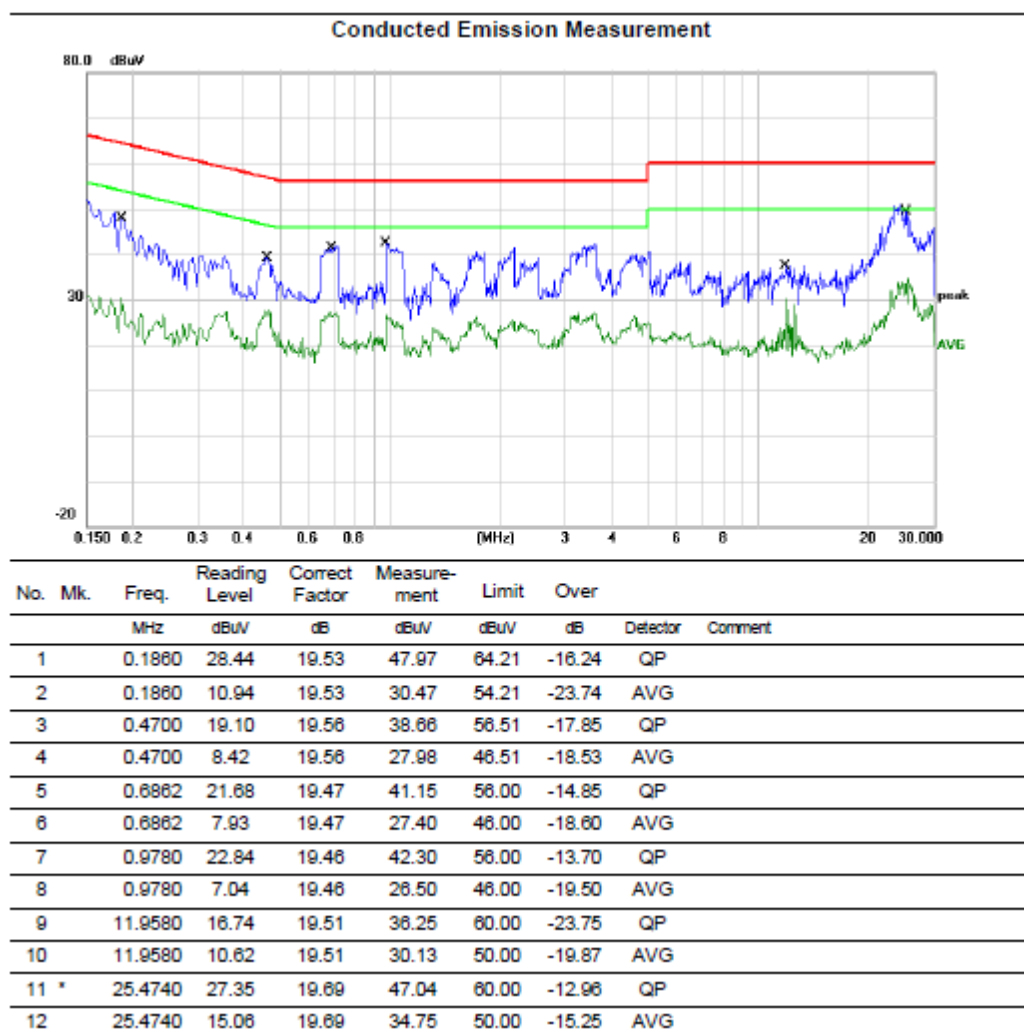
|           |                                      |       |      |
|-----------|--------------------------------------|-------|------|
| Test Mode | POE Adapter TX Mode_1Mbps Channel 01 | Phase | Line |
|-----------|--------------------------------------|-------|------|



**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|           |                                      |       |         |
|-----------|--------------------------------------|-------|---------|
| Test Mode | POE Adapter TX Mode_1Mbps Channel 01 | Phase | Neutral |
|-----------|--------------------------------------|-------|---------|

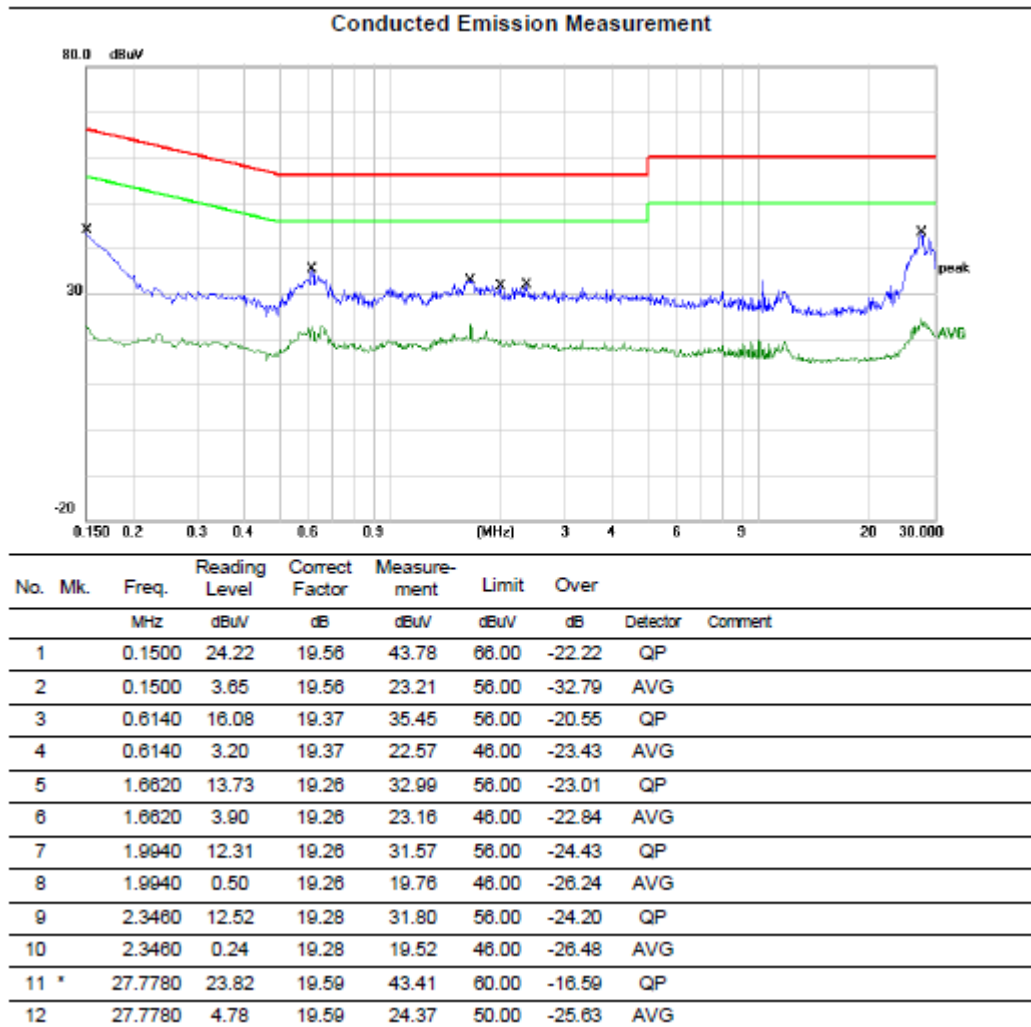


**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

## Module2

|           |                                     |       |      |
|-----------|-------------------------------------|-------|------|
| Test Mode | DC Adapter TX Mode_1Mbps Channel 01 | Phase | Line |
|-----------|-------------------------------------|-------|------|

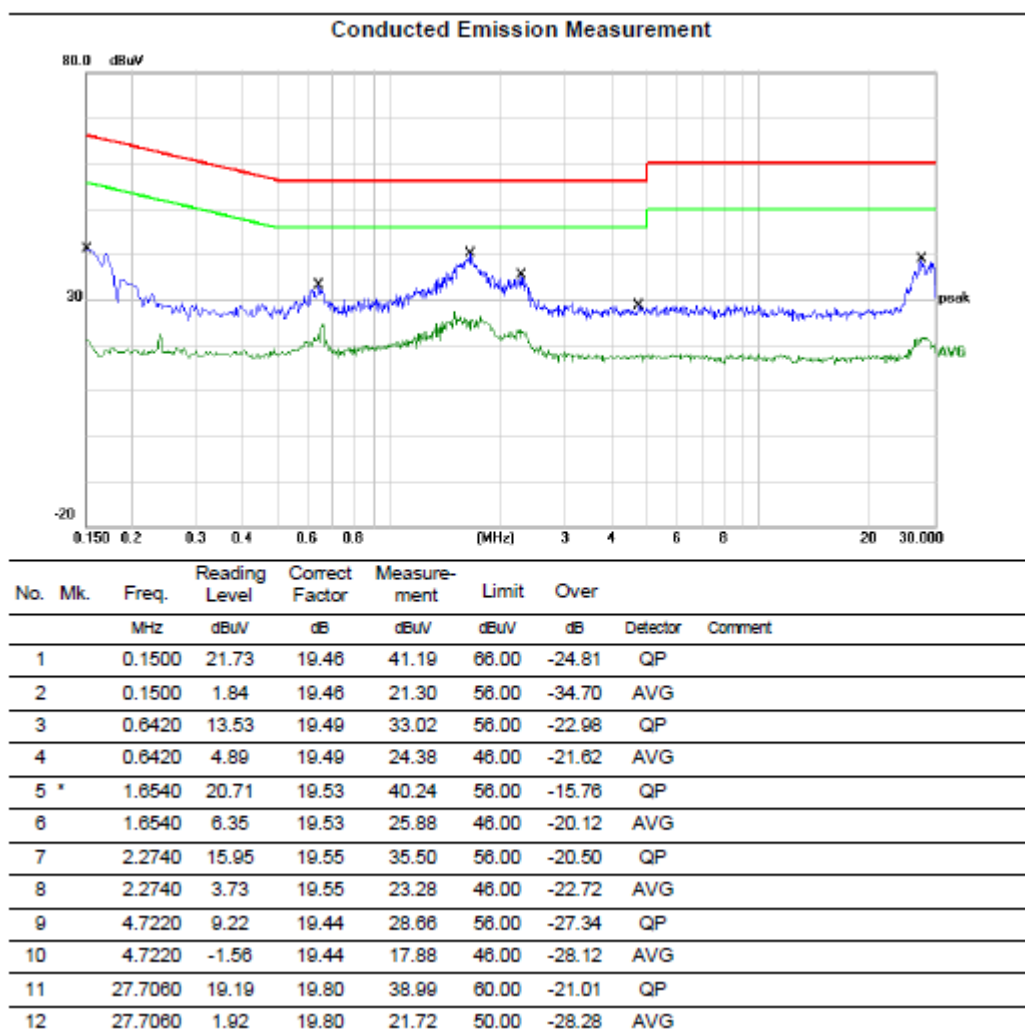


### REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

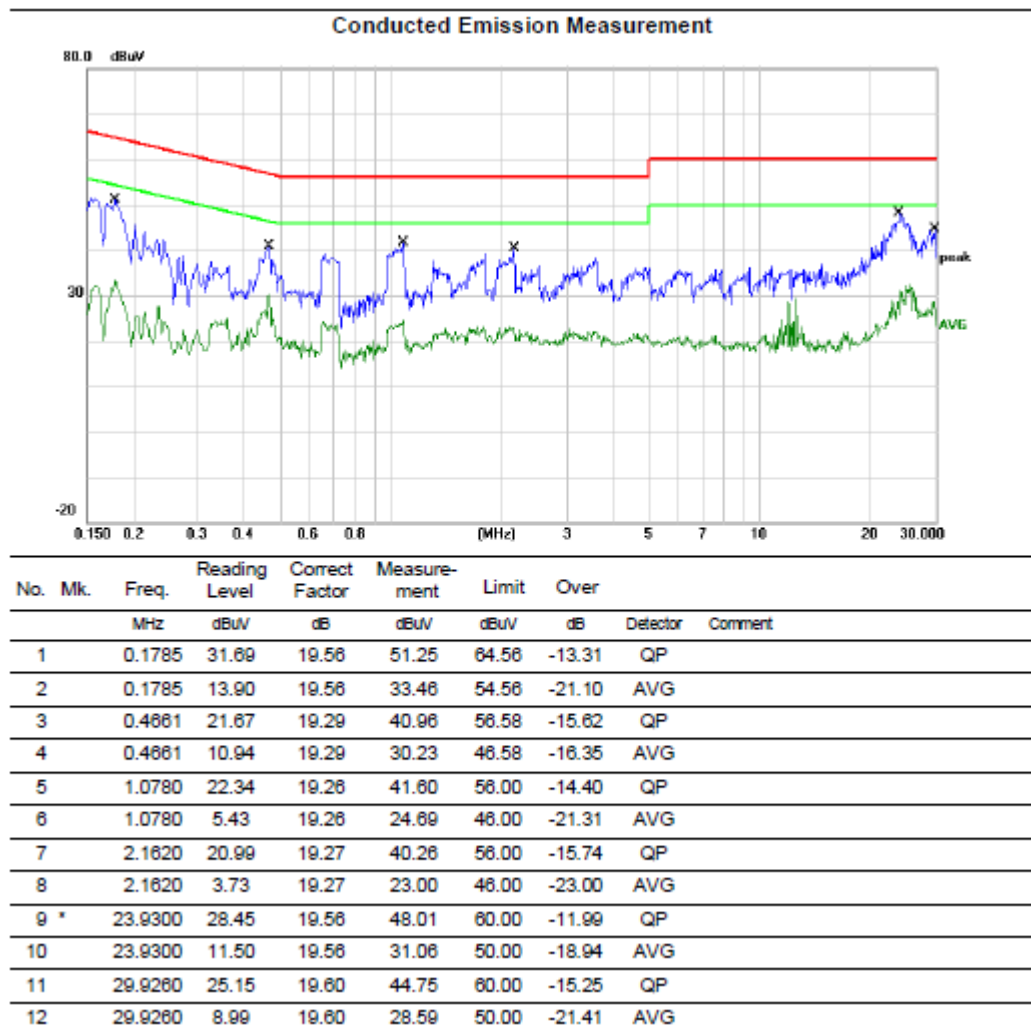
|           |                                     |       |         |
|-----------|-------------------------------------|-------|---------|
| Test Mode | DC Adapter TX Mode_1Mbps Channel 01 | Phase | Neutral |
|-----------|-------------------------------------|-------|---------|



**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

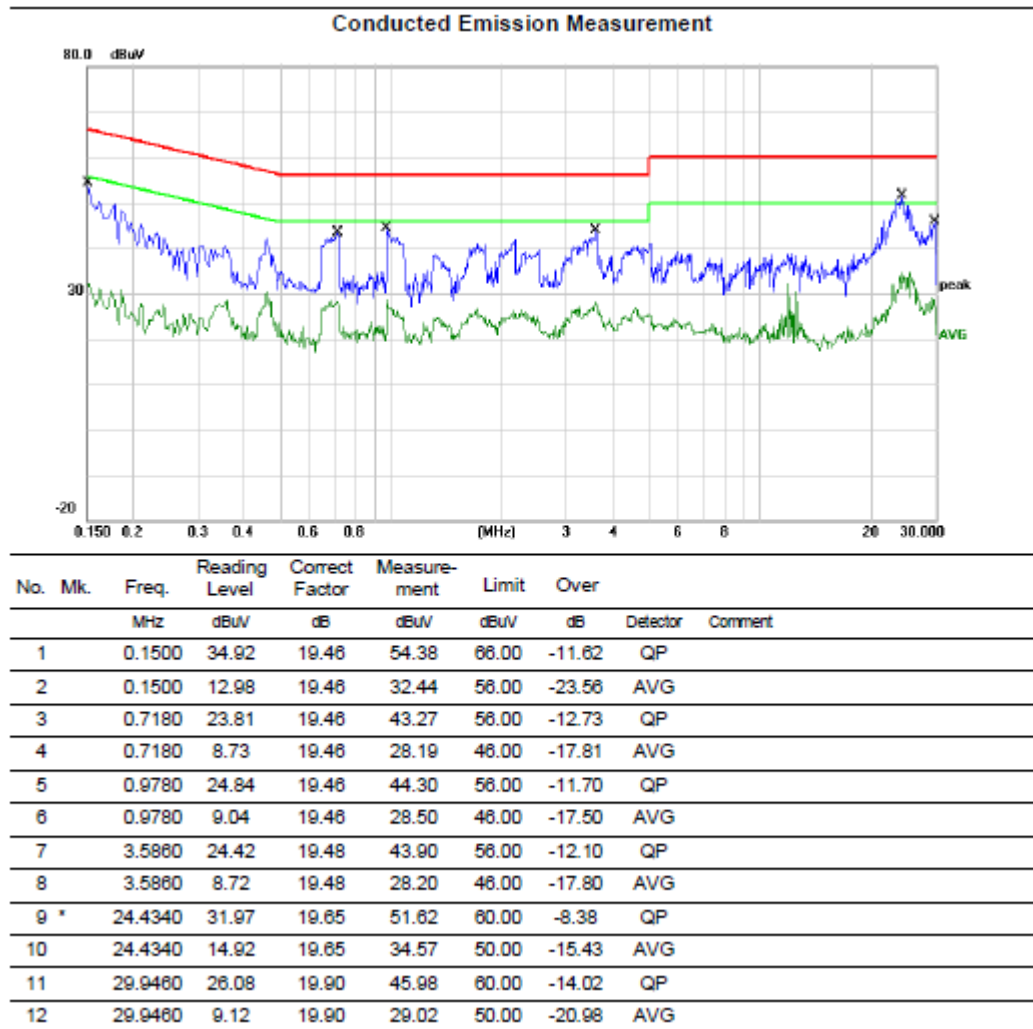
|           |                                      |       |      |
|-----------|--------------------------------------|-------|------|
| Test Mode | POE Adapter TX Mode_1Mbps Channel 01 | Phase | Line |
|-----------|--------------------------------------|-------|------|



**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|           |                                      |       |         |
|-----------|--------------------------------------|-------|---------|
| Test Mode | POE Adapter TX Mode_1Mbps Channel 01 | Phase | Neutral |
|-----------|--------------------------------------|-------|---------|



**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

## **APPENDIX B- RADIATED EMISSION - 9 KHZ TO 30 MHZ**

Radiated emission: 9KHz-30MHz

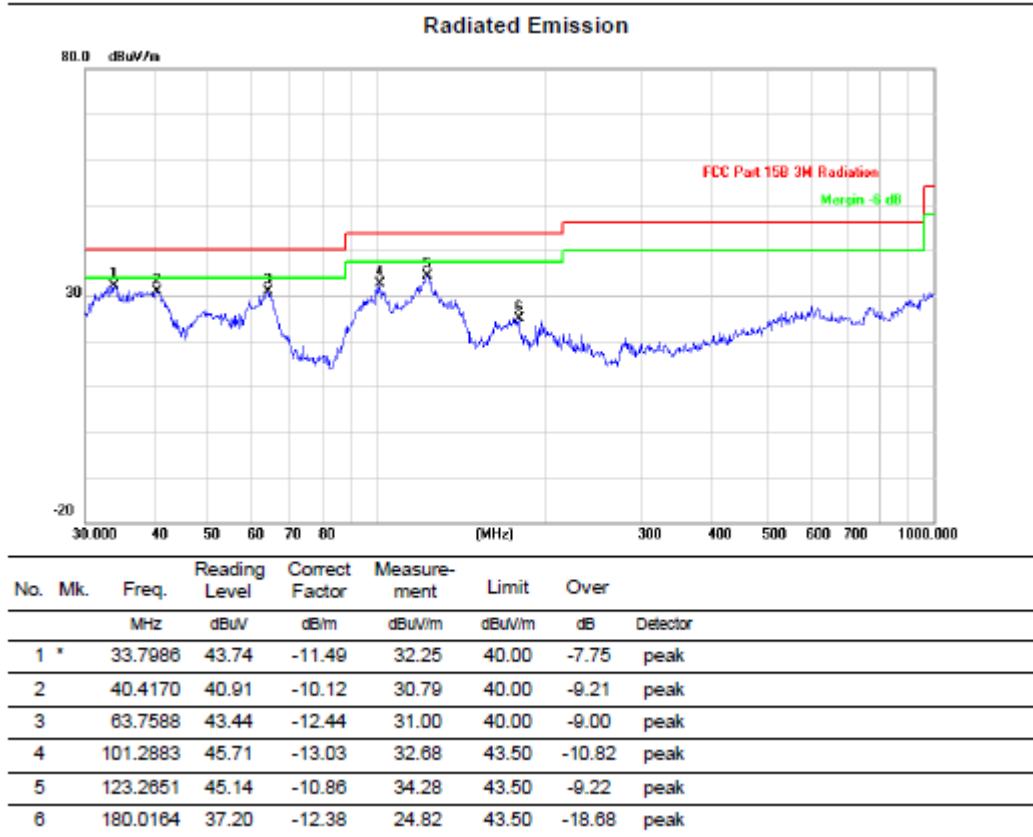
The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

## **APPENDIX C- RADIATED EMISSION - 30 MHZ TO 1000 MHZ**

# Module1

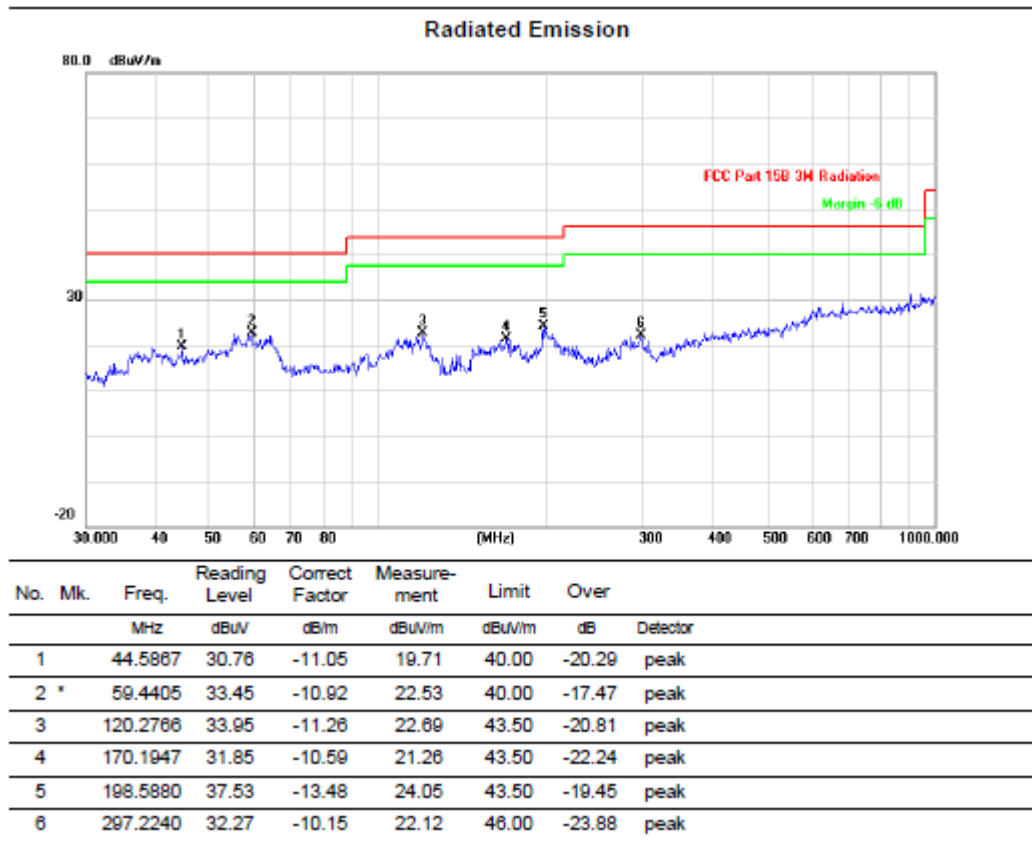
|           |                                     |              |          |
|-----------|-------------------------------------|--------------|----------|
| Test Mode | DC Adapter TX Mode_1Mbps Channel 01 | Polarization | Vertical |
|-----------|-------------------------------------|--------------|----------|



## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

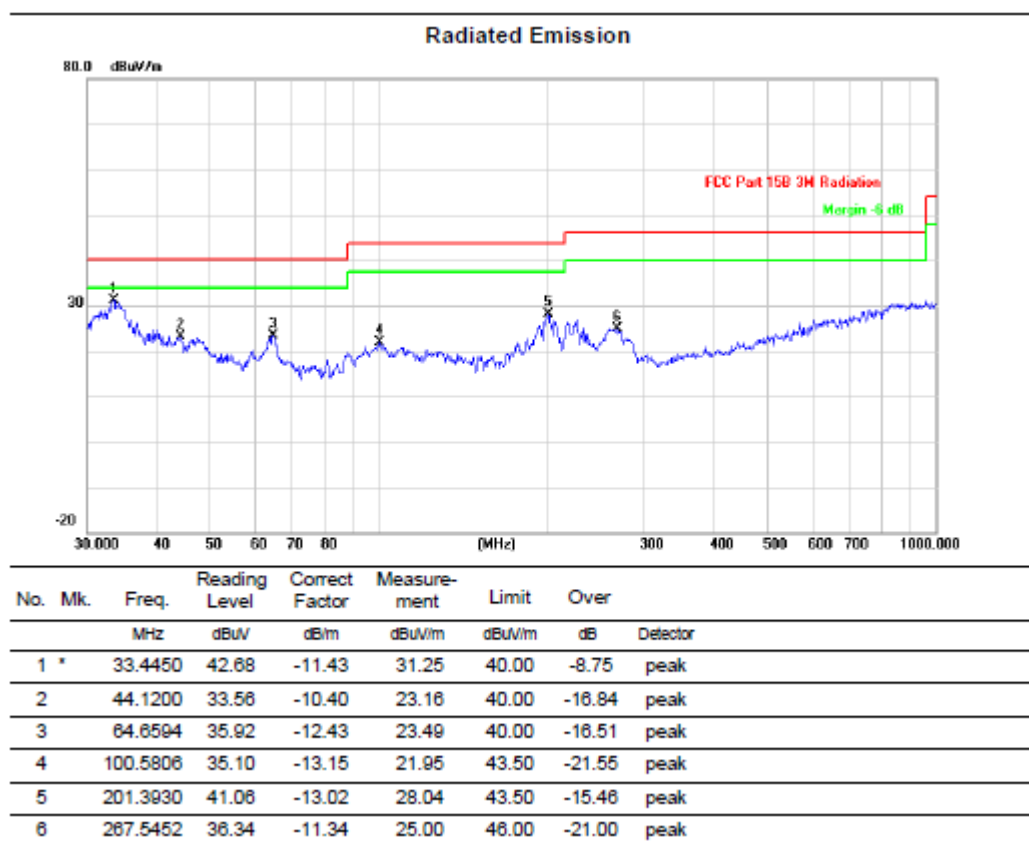
|           |                                     |              |            |
|-----------|-------------------------------------|--------------|------------|
| Test Mode | DC Adapter TX Mode_1Mbps Channel 01 | Polarization | Horizontal |
|-----------|-------------------------------------|--------------|------------|



**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|           |                                      |              |          |
|-----------|--------------------------------------|--------------|----------|
| Test Mode | POE Adapter TX Mode_1Mbps Channel 01 | Polarization | Vertical |
|-----------|--------------------------------------|--------------|----------|

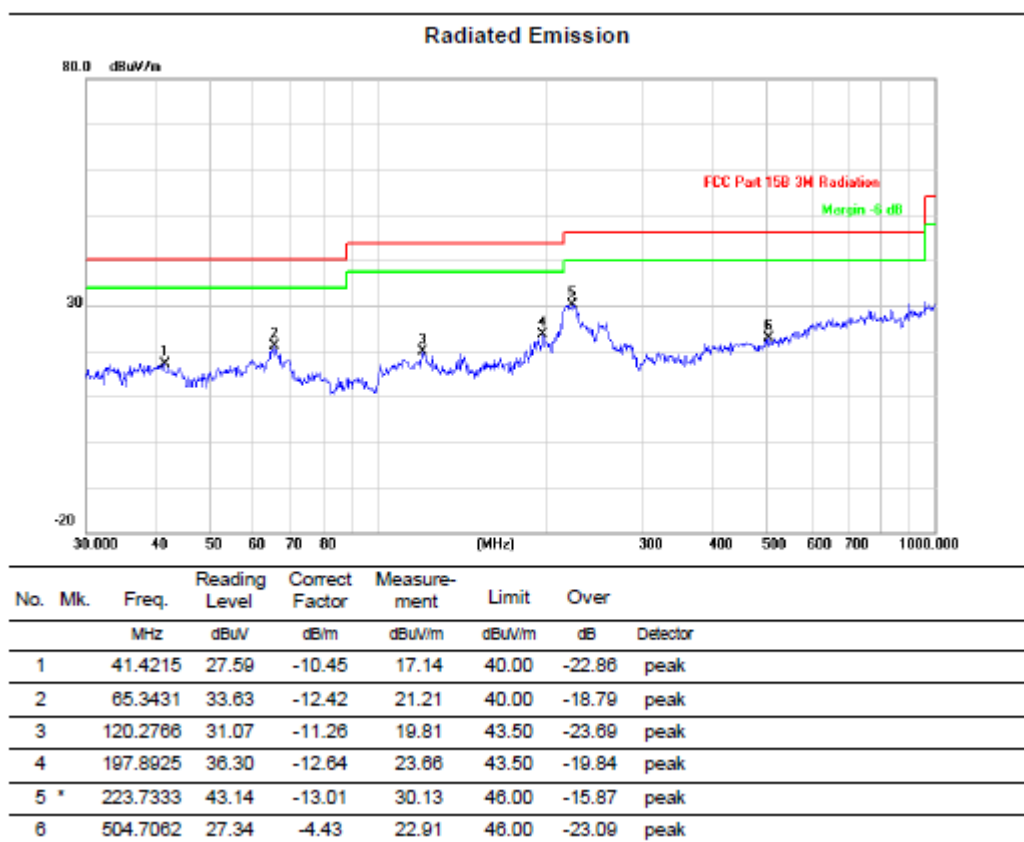


**REMARKS:**

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

|           |                                      |              |            |
|-----------|--------------------------------------|--------------|------------|
| Test Mode | POE Adapter TX Mode_1Mbps Channel 01 | Polarization | Horizontal |
|-----------|--------------------------------------|--------------|------------|

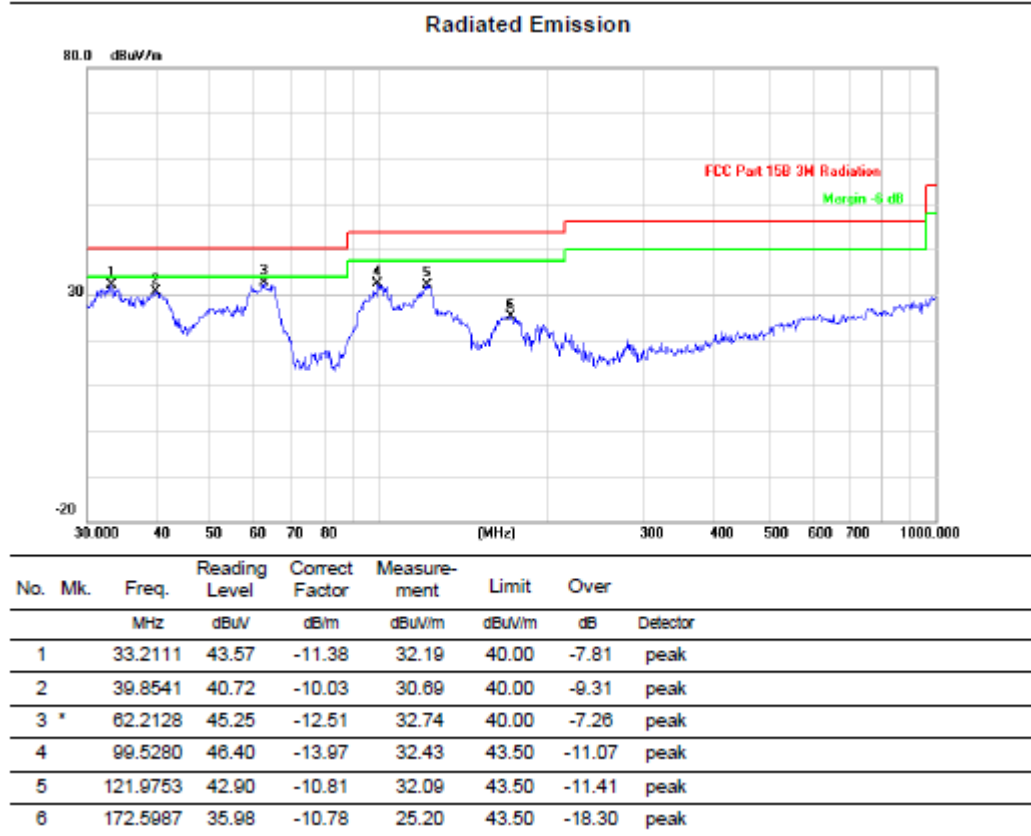


**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.  
(2) Margin Level = Measurement Value - Limit Value.

## Module2

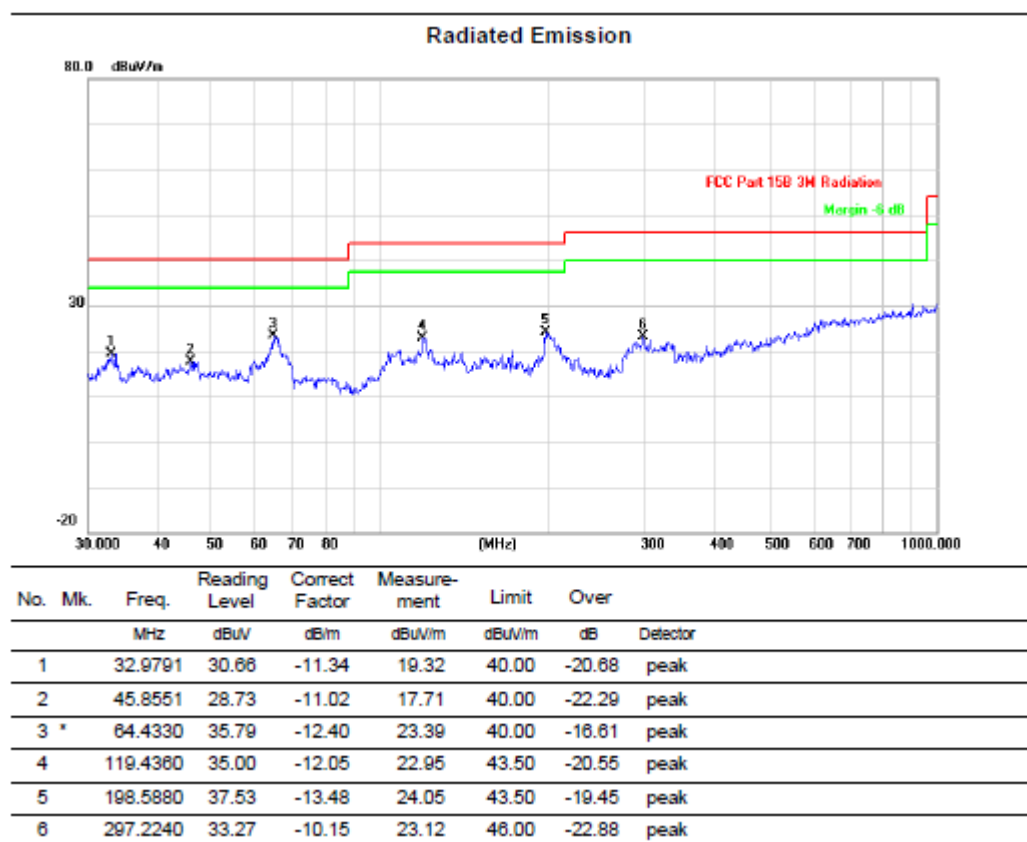
|           |                                     |              |          |
|-----------|-------------------------------------|--------------|----------|
| Test Mode | DC Adapter TX Mode_1Mbps Channel 01 | Polarization | Vertical |
|-----------|-------------------------------------|--------------|----------|



### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

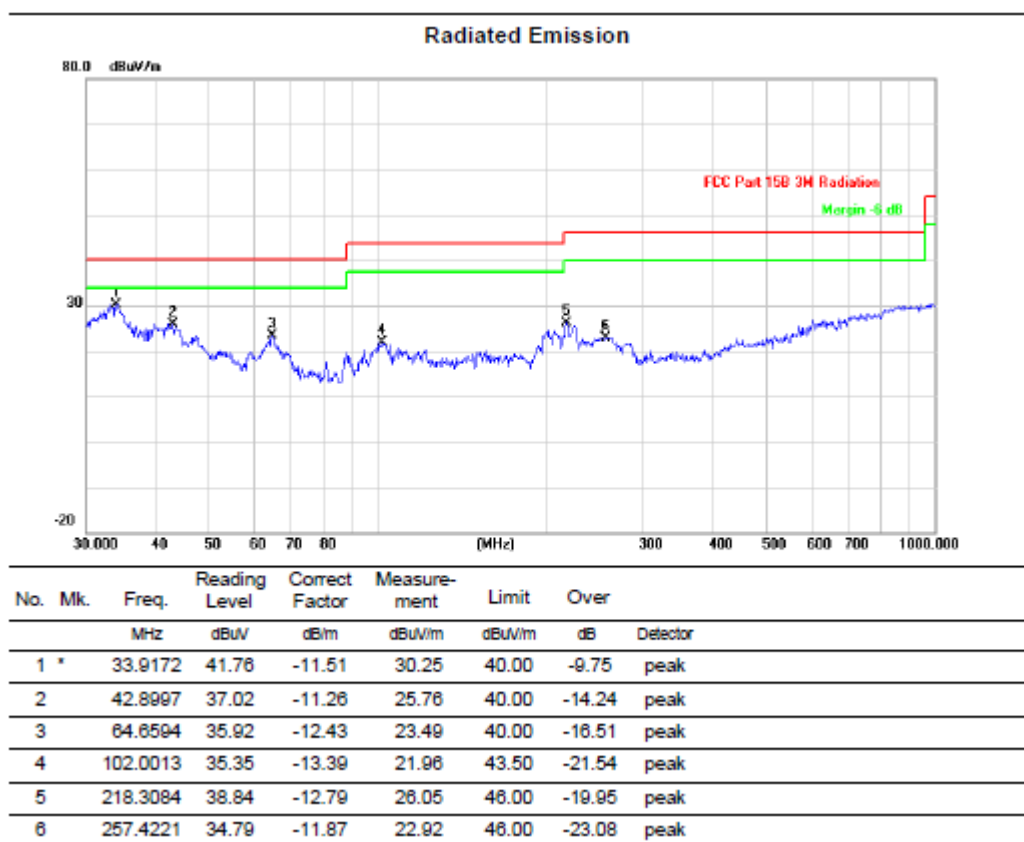
|           |                                     |              |            |
|-----------|-------------------------------------|--------------|------------|
| Test Mode | DC Adapter TX Mode_1Mbps Channel 01 | Polarization | Horizontal |
|-----------|-------------------------------------|--------------|------------|



**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|           |                                      |              |          |
|-----------|--------------------------------------|--------------|----------|
| Test Mode | POE Adapter TX Mode_1Mbps Channel 01 | Polarization | Vertical |
|-----------|--------------------------------------|--------------|----------|

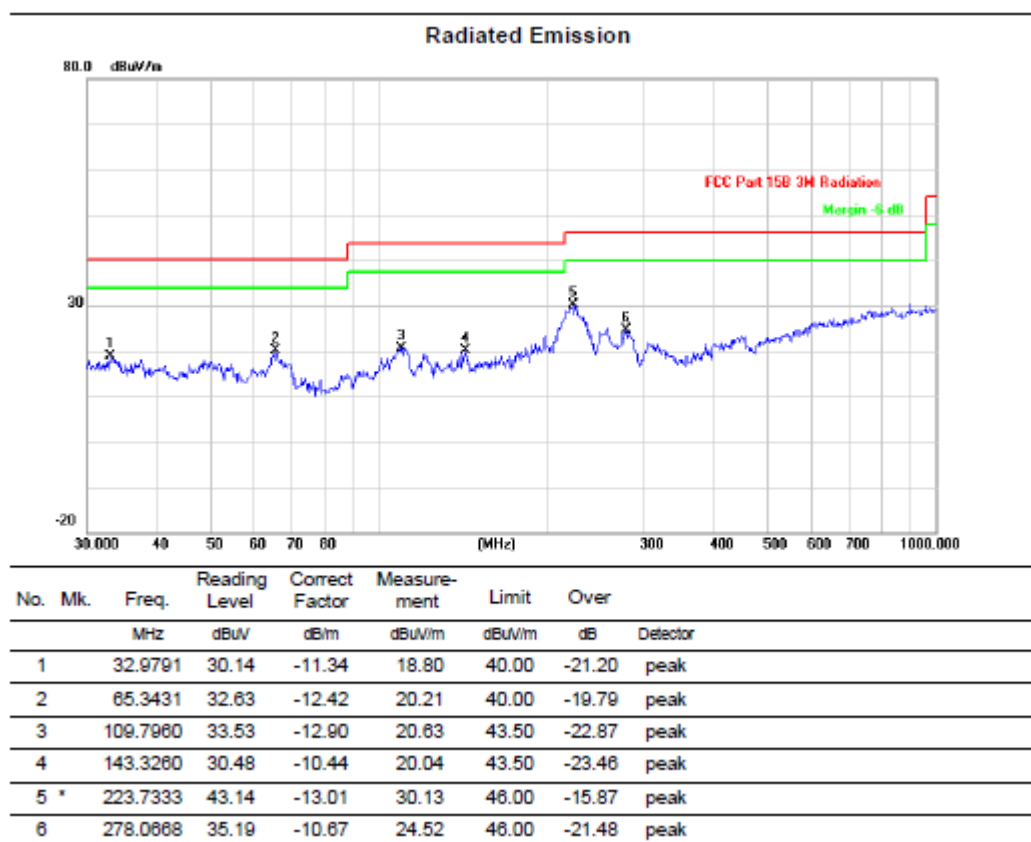


**REMARKS:**

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

|           |                                      |              |            |
|-----------|--------------------------------------|--------------|------------|
| Test Mode | POE Adapter TX Mode_1Mbps Channel 01 | Polarization | Horizontal |
|-----------|--------------------------------------|--------------|------------|



**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.  
(2) Margin Level = Measurement Value - Limit Value.

## APPENDIX D- RADIATED EMISSION - ABOVE 1000 MHZ

Module1

| Frequency (MHz) | Read Level (dBμV) | Polarization | Factor (dB/m) | Measurement (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector |
|-----------------|-------------------|--------------|---------------|----------------------|----------------|-------------|----------|
| 1Mbps TX CH01   |                   |              |               |                      |                |             |          |
| 4802.00         | 50.66             | H            | -3.93         | 46.73                | 74.00          | 27.27       | peak     |
| 2310.00         | 49.67             | H            | -1.98         | 47.69                | 74.00          | 26.31       | peak     |
| 2390.00         | 49.80             | H            | -1.58         | 48.22                | 74.00          | 25.78       | peak     |
| 4804.00         | 50.43             | V            | -3.93         | 46.50                | 74.00          | 27.50       | peak     |
| 2310.00         | 49.76             | V            | -1.98         | 47.78                | 74.00          | 26.22       | peak     |
| 2390.00         | 50.99             | V            | -1.58         | 49.41                | 74.00          | 24.59       | peak     |
| 1Mbps TX CH30   |                   |              |               |                      |                |             |          |
| 4860.00         | 50.12             | H            | -4.23         | 45.89                | 74.00          | 28.11       | peak     |
| 4860.00         | 52.12             | V            | -4.23         | 47.89                | 74.00          | 26.11       | peak     |
| 1Mbps TX CH61   |                   |              |               |                      |                |             |          |
| 4922.00         | 50.42             | H            | -3.81         | 46.61                | 74.00          | 27.39       | peak     |
| 2483.50         | 46.29             | H            | -0.62         | 45.67                | 74.00          | 28.33       | peak     |
| 2500.00         | 44.90             | H            | -0.45         | 44.45                | 74.00          | 29.55       | peak     |
| 4922.00         | 50.46             | V            | -3.81         | 46.65                | 74.00          | 27.35       | peak     |
| 2483.50         | 46.85             | V            | -0.62         | 46.23                | 74.00          | 27.77       | peak     |
| 2500.00         | 46.35             | V            | -0.45         | 45.90                | 74.00          | 28.10       | peak     |

Module2

| Frequency (MHz) | Read Level (dBμV) | Polarization | Factor (dB/m) | Measurement (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector |
|-----------------|-------------------|--------------|---------------|----------------------|----------------|-------------|----------|
| 1Mbps TX CH01   |                   |              |               |                      |                |             |          |
| 4802.00         | 51.88             | H            | -3.93         | 47.95                | 74.00          | 26.05       | peak     |
| 2310.00         | 48.44             | H            | -1.98         | 46.46                | 74.00          | 27.54       | peak     |
| 2390.00         | 47.77             | H            | -1.58         | 46.19                | 74.00          | 27.81       | peak     |
| 4804.00         | 51.84             | V            | -3.93         | 47.91                | 74.00          | 26.09       | peak     |
| 2310.00         | 47.41             | V            | -1.98         | 45.43                | 74.00          | 28.57       | peak     |
| 2390.00         | 49.80             | V            | -1.58         | 48.22                | 74.00          | 25.78       | peak     |
| 1Mbps TX CH30   |                   |              |               |                      |                |             |          |
| 4860.00         | 51.77             | H            | -4.23         | 47.54                | 74.00          | 26.46       | peak     |
| 4860.00         | 52.11             | V            | -4.23         | 47.88                | 74.00          | 26.12       | peak     |
| 1Mbps TX CH61   |                   |              |               |                      |                |             |          |
| 4922.00         | 51.56             | H            | -3.81         | 47.75                | 74.00          | 26.25       | peak     |
| 2483.50         | 47.58             | H            | -0.62         | 46.96                | 74.00          | 27.04       | peak     |
| 2500.00         | 46.66             | H            | -0.45         | 46.21                | 74.00          | 27.79       | peak     |
| 4922.00         | 51.83             | V            | -3.81         | 48.02                | 74.00          | 25.98       | peak     |
| 2483.50         | 49.75             | V            | -0.62         | 49.13                | 74.00          | 24.87       | peak     |
| 2500.00         | 46.76             | V            | -0.45         | 46.31                | 74.00          | 27.69       | peak     |

**Note:** 1. The other emission levels were very low against the limit.  
2. Measurement = Reading Level+ Correct Factor, Margin = Limit- Measurement

## **APPENDIX E BANDWIDTH**

## DTS Bandwidth

### Module1

| Test Mode | Antenna | Frequency [MHz] | DTS BW [MHz] | FL [MHz] | FH [MHz] | Limit [MHz] | Verdict |
|-----------|---------|-----------------|--------------|----------|----------|-------------|---------|
| SRD_1M    | Ant1    | 2401            | 0.708        | 2400.660 | 2401.368 | 0.5         | PASS    |
| SRD_1M    | Ant1    | 2430            | 0.660        | 2429.680 | 2430.340 | 0.5         | PASS    |
| SRD_1M    | Ant1    | 2461            | 0.720        | 2460.648 | 2461.368 | 0.5         | PASS    |

### Module2

| Test Mode | Antenna | Frequency [MHz] | DTS BW [MHz] | FL [MHz] | FH [MHz] | Limit [MHz] | Verdict |
|-----------|---------|-----------------|--------------|----------|----------|-------------|---------|
| SRD_1M    | Ant1    | 2401            | 0.676        | 2400.668 | 2401.344 | 0.5         | PASS    |
| SRD_1M    | Ant1    | 2430            | 0.676        | 2429.668 | 2430.344 | 0.5         | PASS    |
| SRD_1M    | Ant1    | 2461            | 0.680        | 2460.668 | 2461.348 | 0.5         | PASS    |

# Test Graphs Module1



SRD 1M-Ant1-2401-PASS



SRD 1M-Ant1-2430-PASS



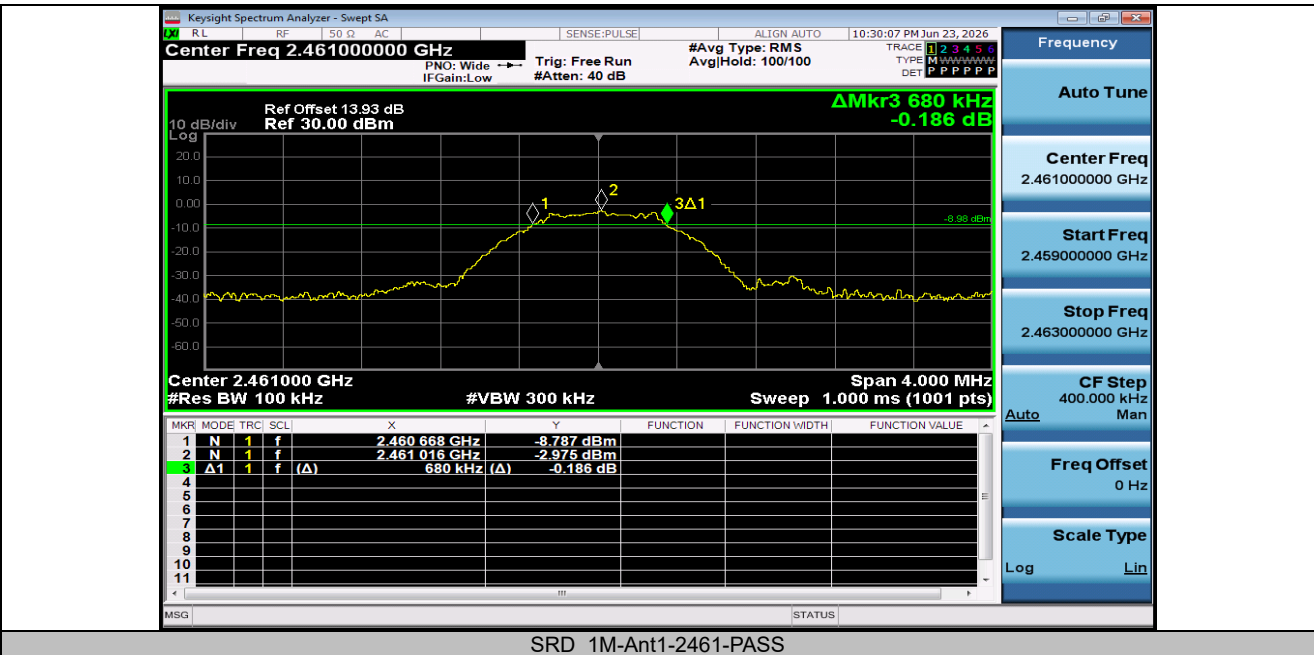
## Module2



SRD\_1M-Ant1-2401-PASS



SRD\_1M-Ant1-2430-PASS



## Occupied Channel Bandwidth

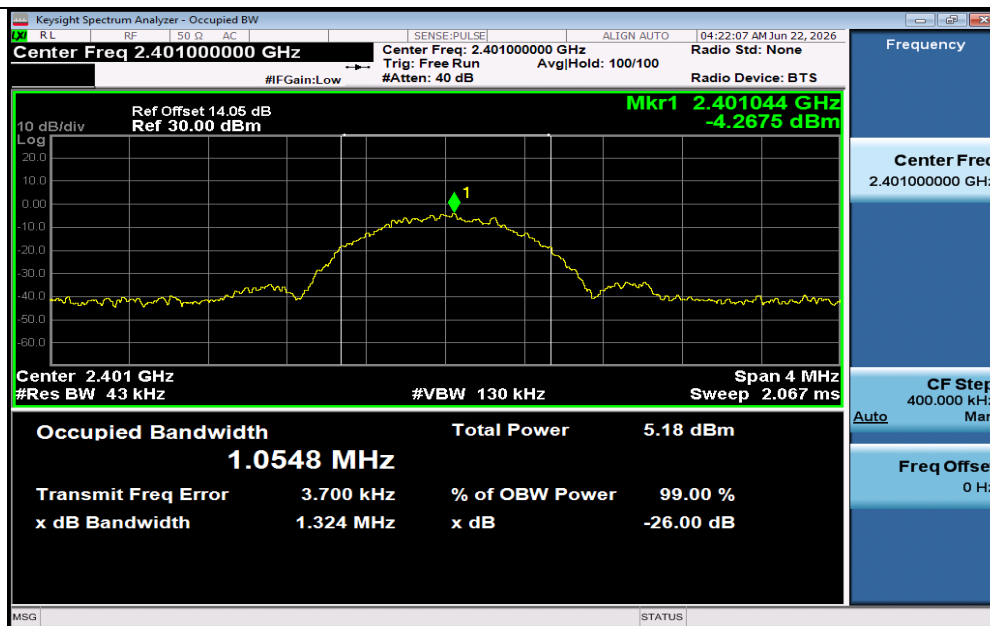
### Module1

| Test Mode | Antenna | Frequency [MHz] | OCB [MHz] | FL [MHz]  | FH [MHz]  | Limit [MHz] | Verdict |
|-----------|---------|-----------------|-----------|-----------|-----------|-------------|---------|
| SRD_1M    | Ant1    | 2401            | 1.0548    | 2400.4763 | 2401.5311 | ---         | ---     |
| SRD_1M    | Ant1    | 2430            | 1.0659    | 2429.4796 | 2430.5455 | ---         | ---     |
| SRD_1M    | Ant1    | 2461            | 1.0640    | 2460.4756 | 2461.5396 | ---         | ---     |

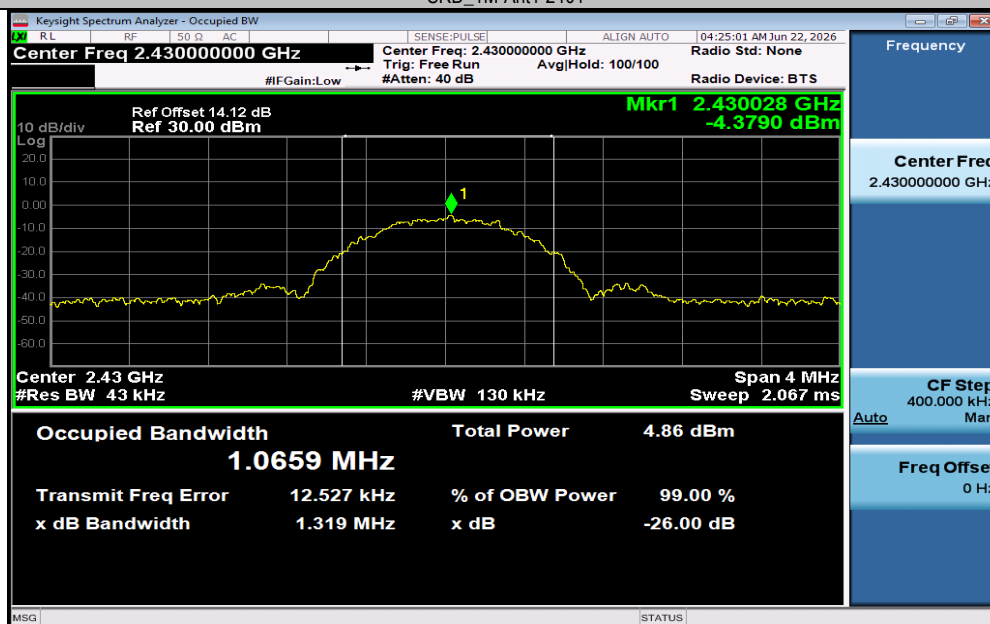
### Module2

| Test Mode | Antenna | Frequency [MHz] | OCB [MHz] | FL [MHz]  | FH [MHz]  | Limit [MHz] | Verdict |
|-----------|---------|-----------------|-----------|-----------|-----------|-------------|---------|
| SRD_1M    | Ant1    | 2401            | 1.0382    | 2400.4823 | 2401.5205 | ---         | ---     |
| SRD_1M    | Ant1    | 2430            | 1.0532    | 2429.4793 | 2430.5325 | ---         | ---     |
| SRD_1M    | Ant1    | 2461            | 1.0570    | 2460.4821 | 2461.5391 | ---         | ---     |

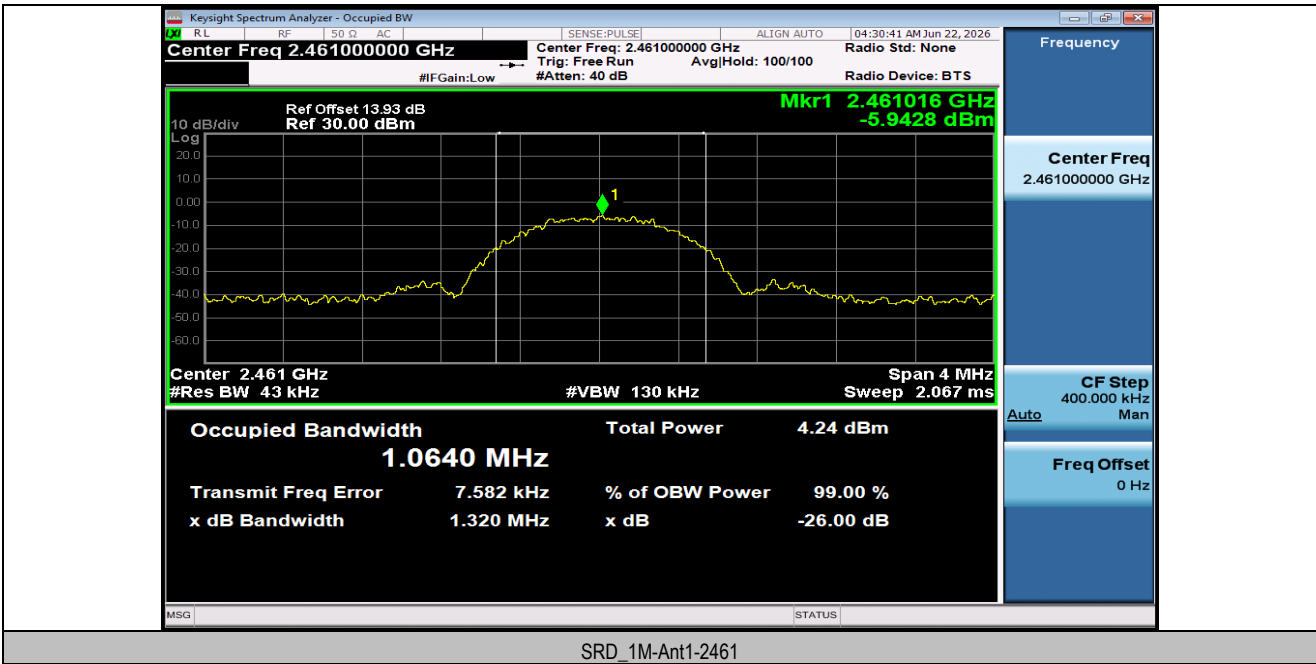
Test Graphs  
Module1



SRD\_1M-Ant1-2401

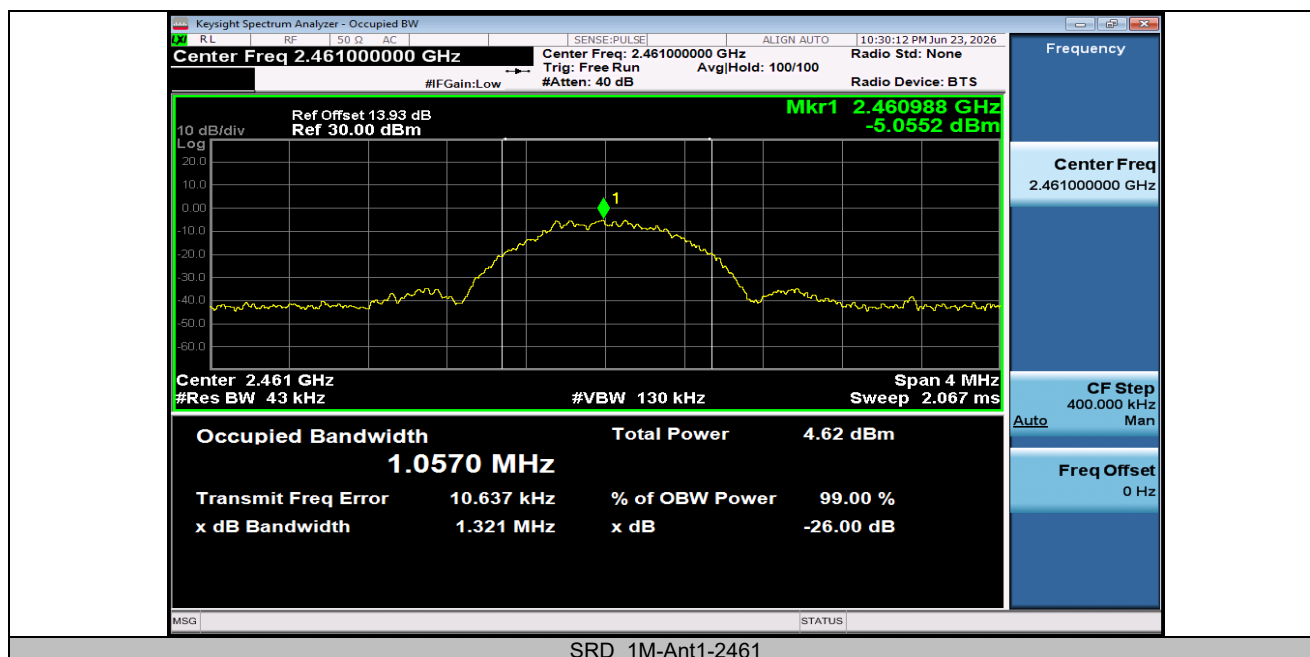


SRD\_1M-Ant1-2430



## Module2





## **APPENDIX F- MAXIMUM OUTPUT POWER**

Module1

| Test Mode | Antenna | Frequency [MHz] | Conducted Peak Power [dBm] | Conducted Limit [dBm] | Verdict |
|-----------|---------|-----------------|----------------------------|-----------------------|---------|
| SRD_1M    | Ant1    | 2401            | <b>-1.35</b>               | ≤30                   | PASS    |
| SRD_1M    | Ant1    | 2430            | -1.73                      | ≤30                   | PASS    |
| SRD_1M    | Ant1    | 2461            | -2.28                      | ≤30                   | PASS    |

Module2

| Test Mode | Antenna | Frequency [MHz] | Conducted Peak Power [dBm] | Conducted Limit [dBm] | Verdict |
|-----------|---------|-----------------|----------------------------|-----------------------|---------|
| SRD_1M    | Ant1    | 2401            | <b>-0.90</b>               | ≤30                   | PASS    |
| SRD_1M    | Ant1    | 2430            | -1.14                      | ≤30                   | PASS    |
| SRD_1M    | Ant1    | 2461            | -1.76                      | ≤30                   | PASS    |

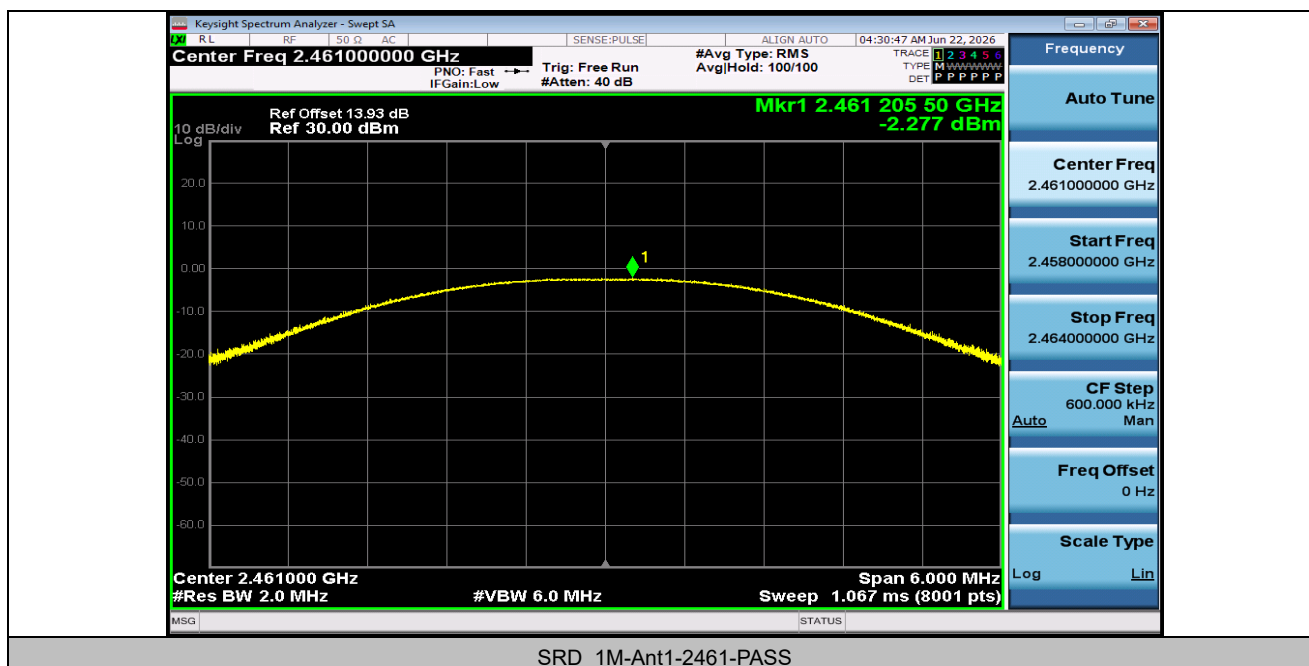
Test Graphs  
Module1



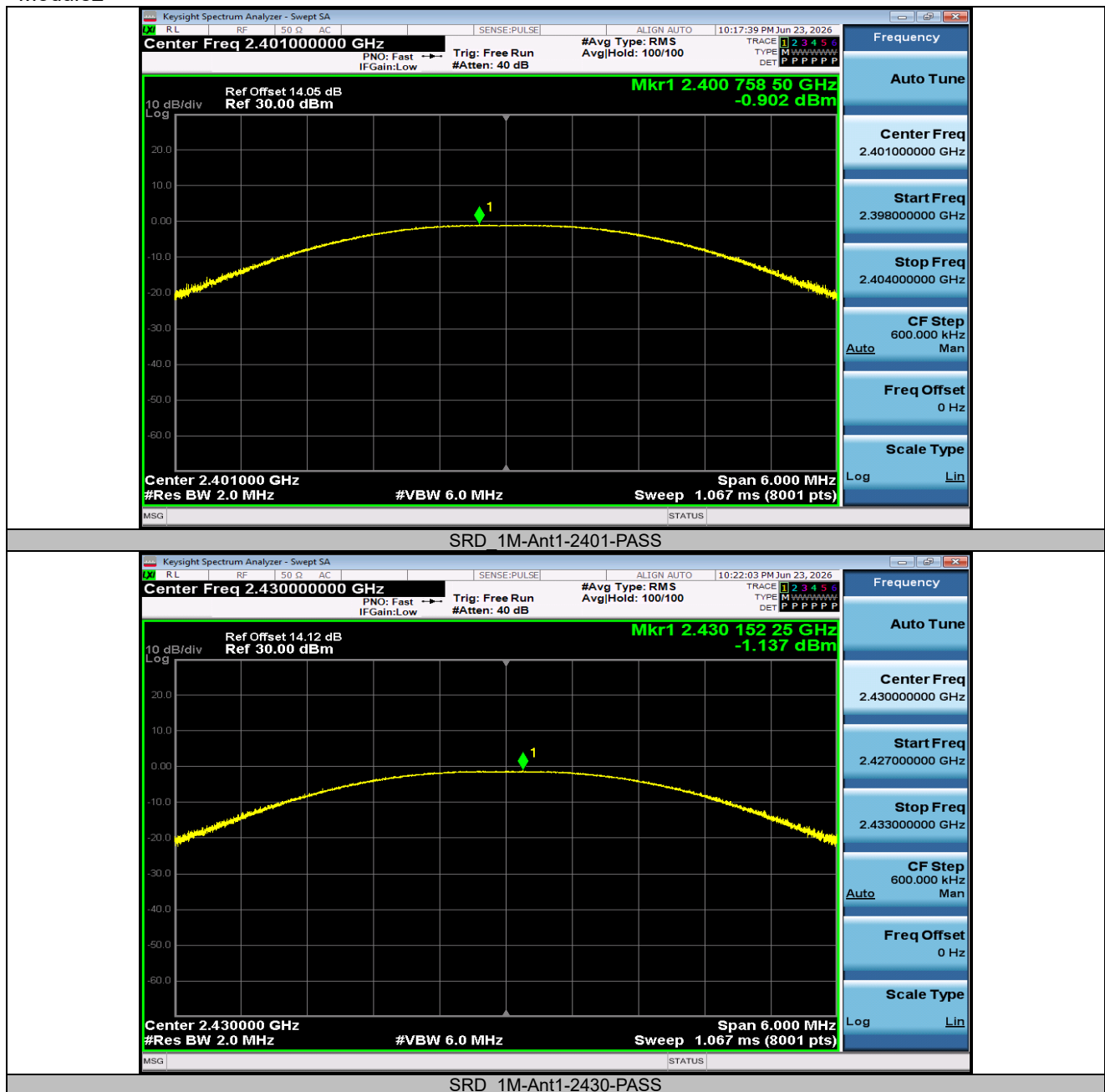
SRD 1M-Ant1-2401-PASS

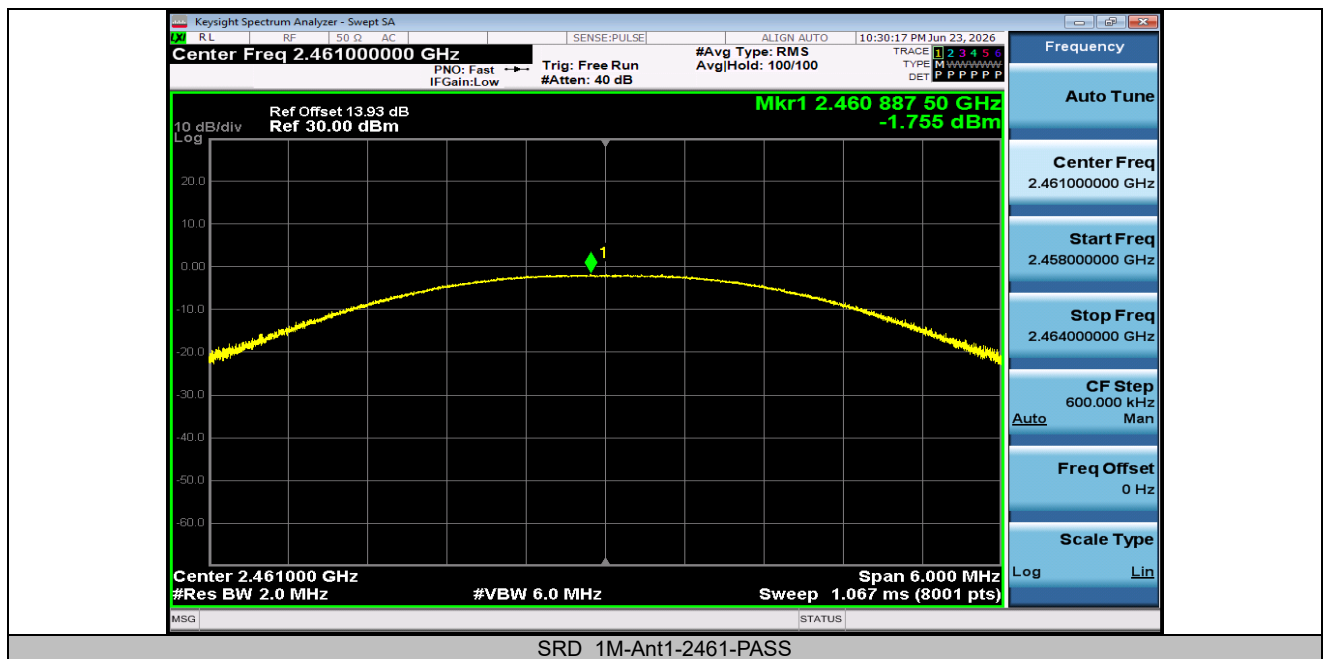


SRD 1M-Ant1-2430-PASS



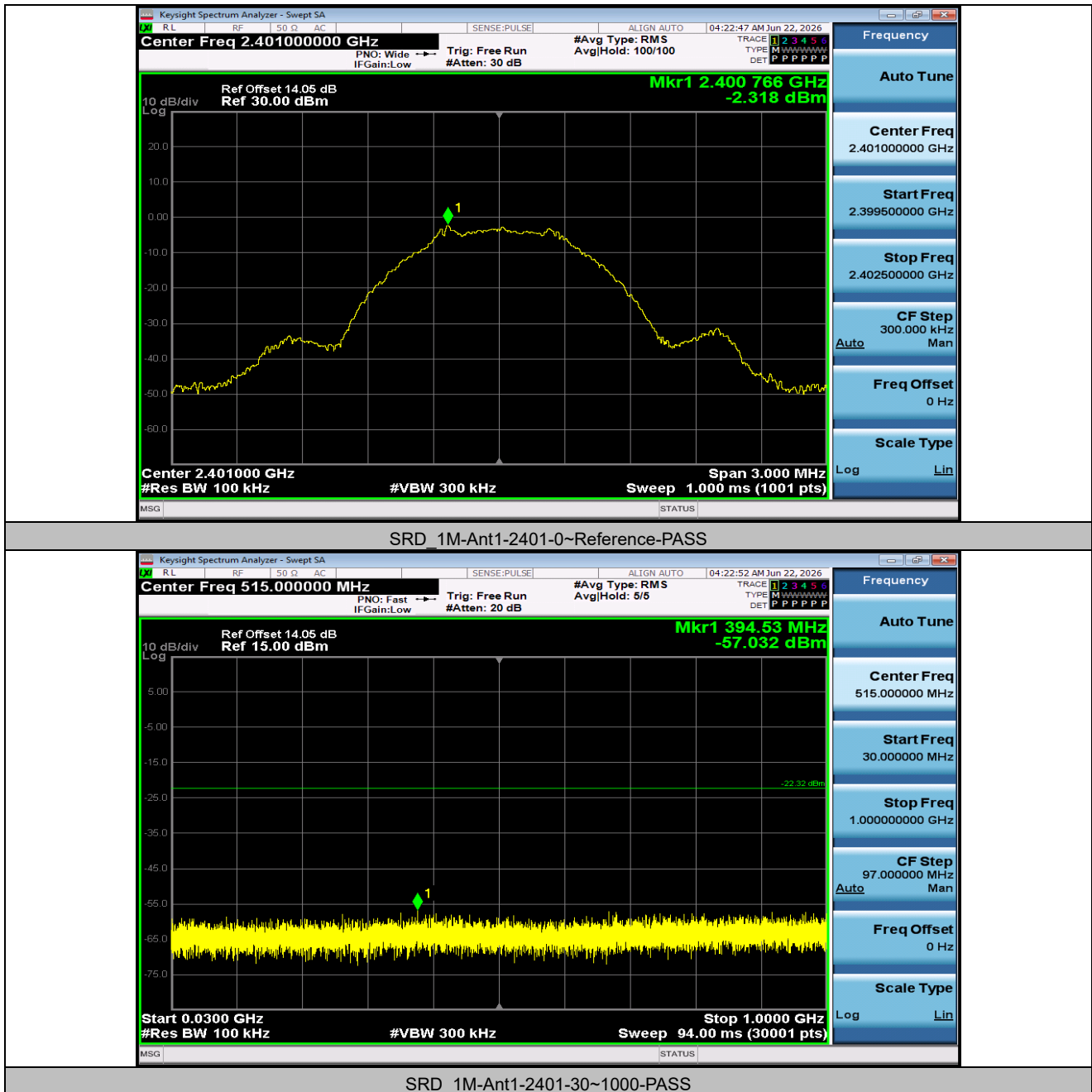
## Module2

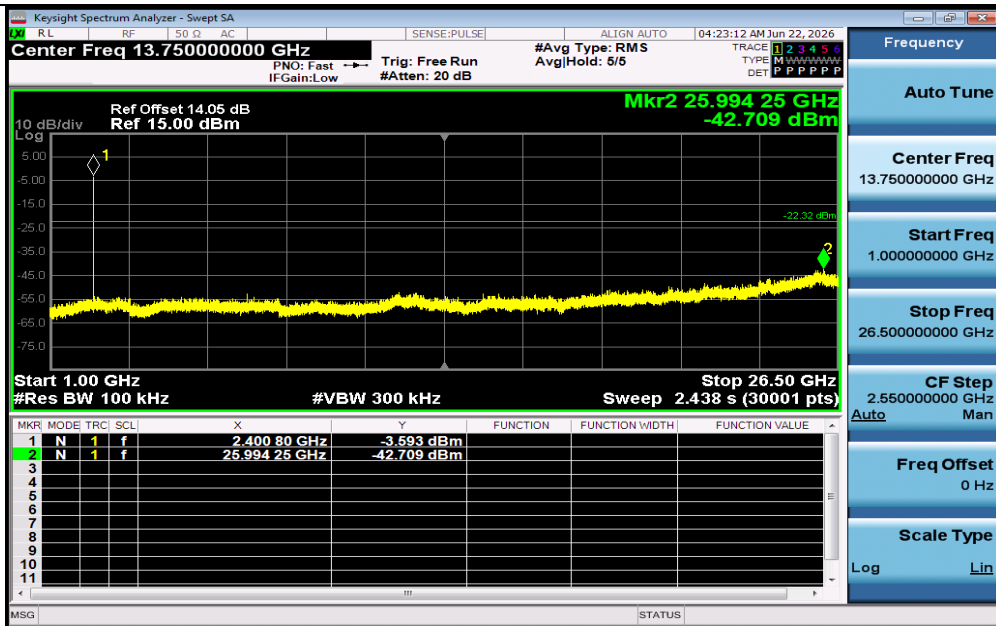




## **APPENDIX G- CONDUCTED SPURIOUS EMISSION**

Conducted Spurious Emission  
Module1

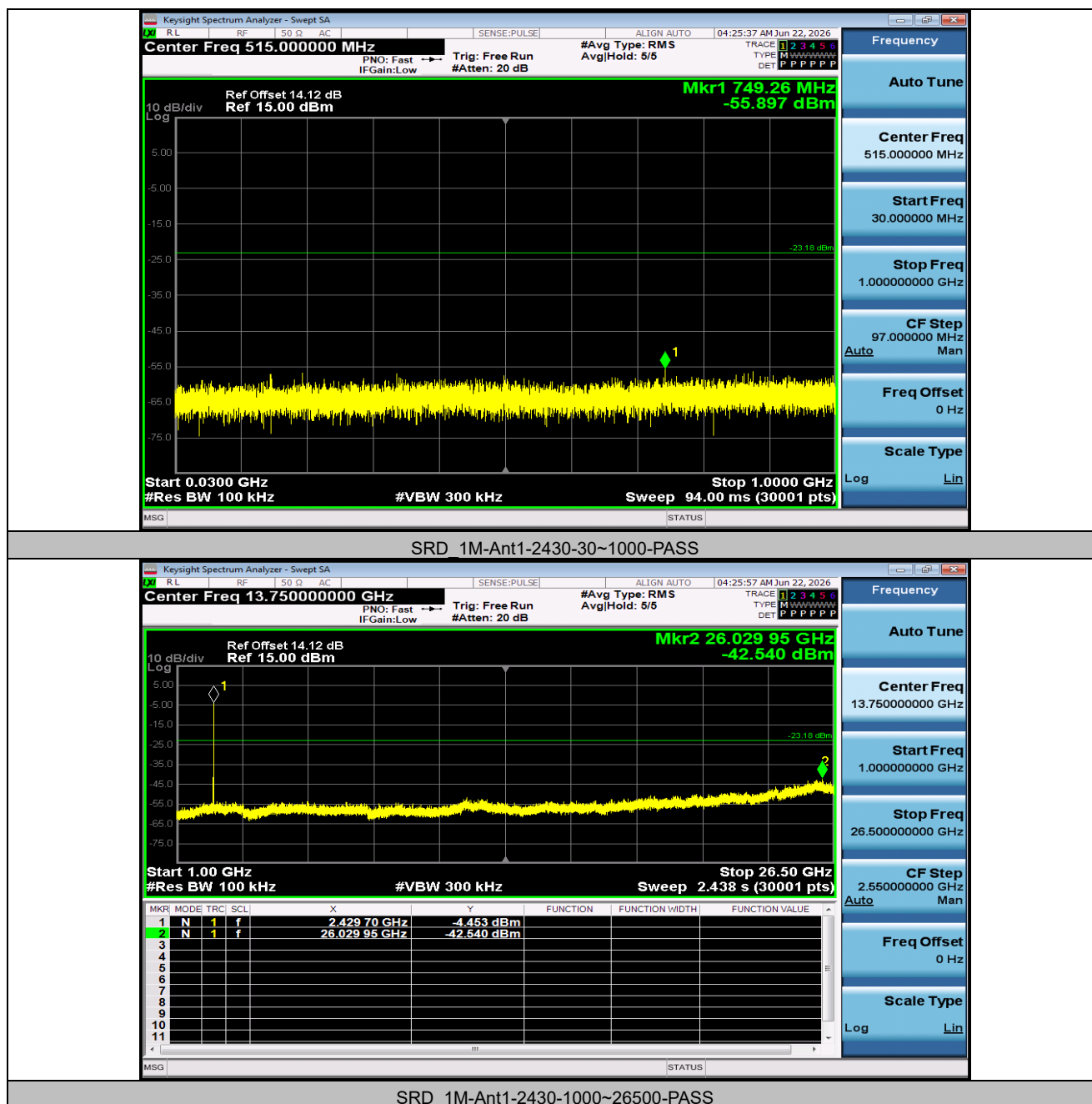




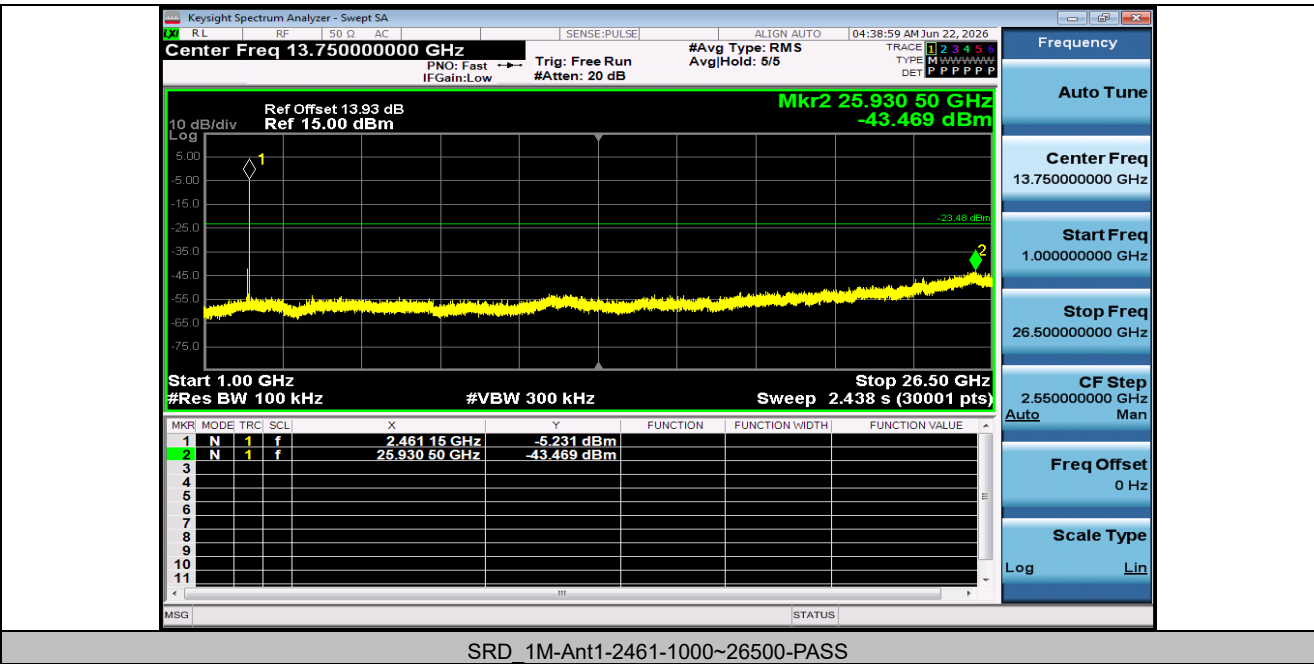
SRD\_1M-Ant1-2401-1000~26500-PASS



SRD\_1M-Ant1-2430-0~Reference-PASS



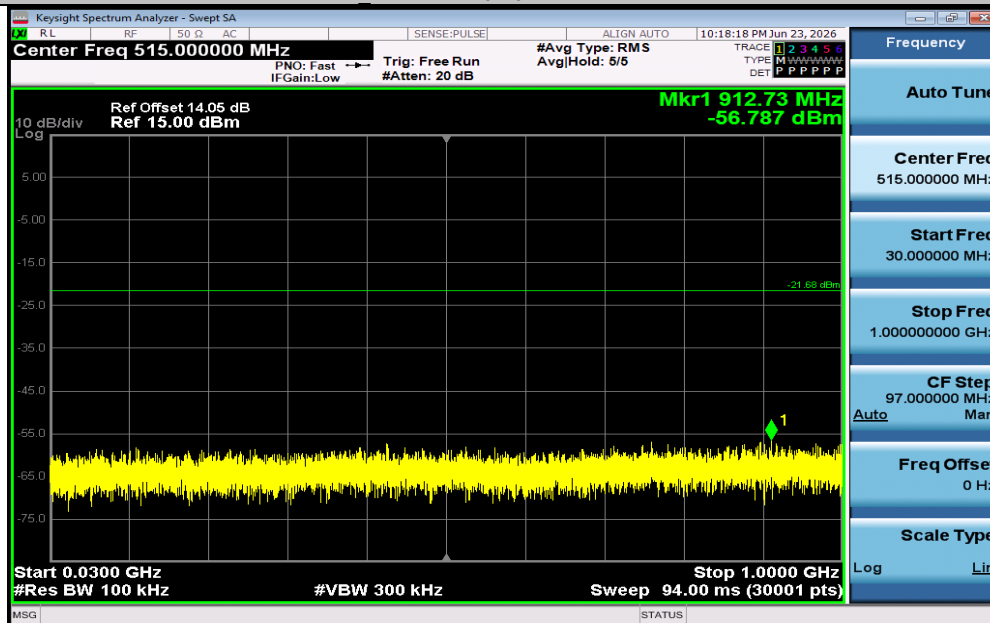




## Module2

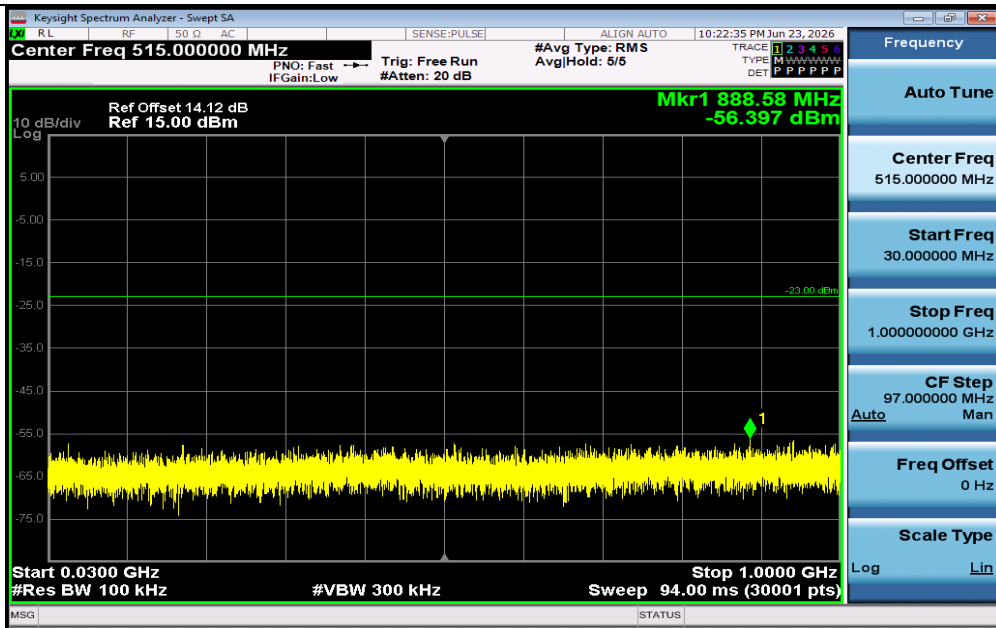


SRD\_1M-Ant1-2401-0~Reference-PASS

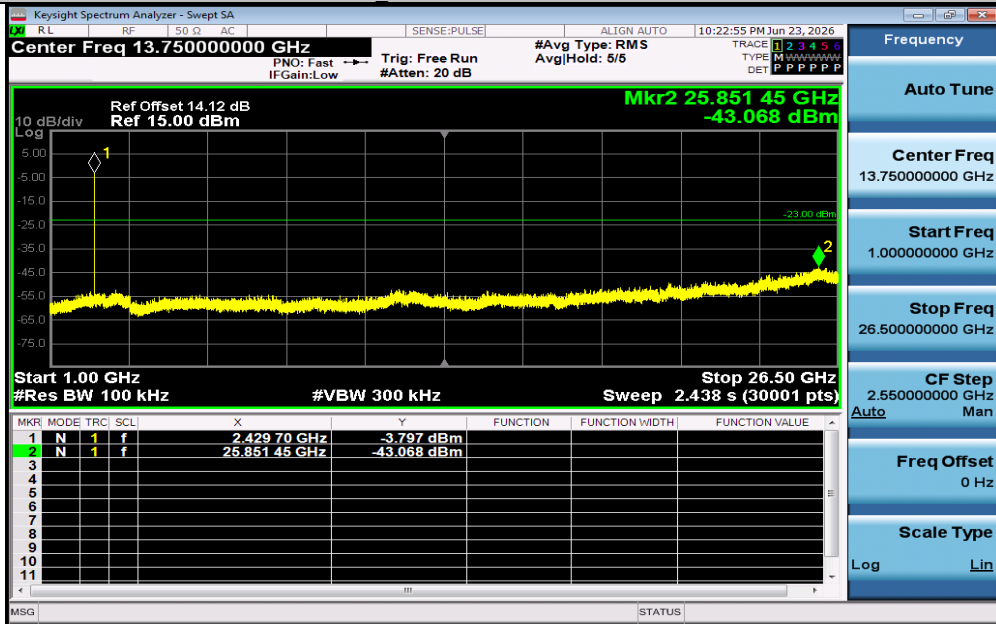


SRD\_1M-Ant1-2401-30~1000-PASS

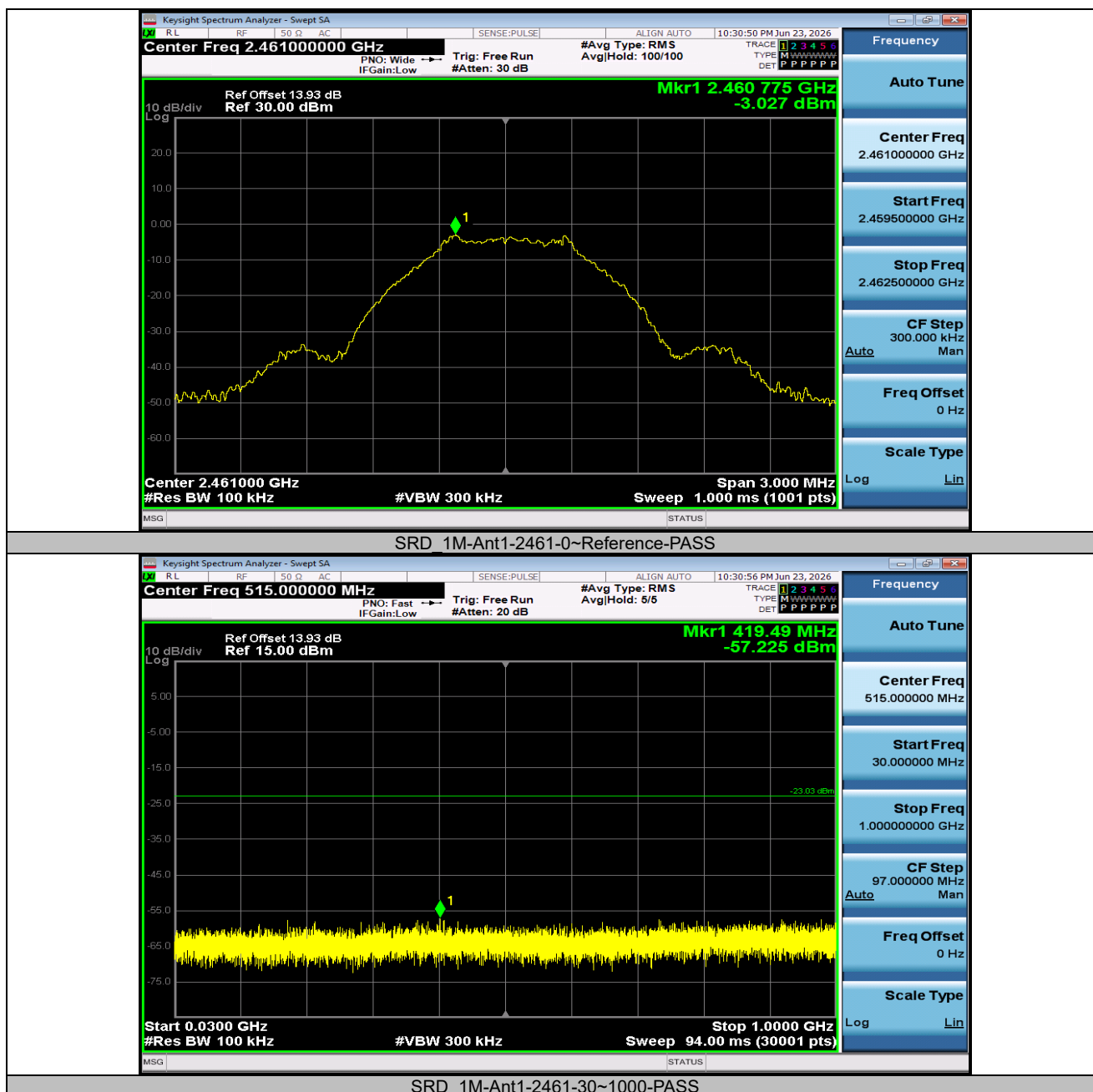


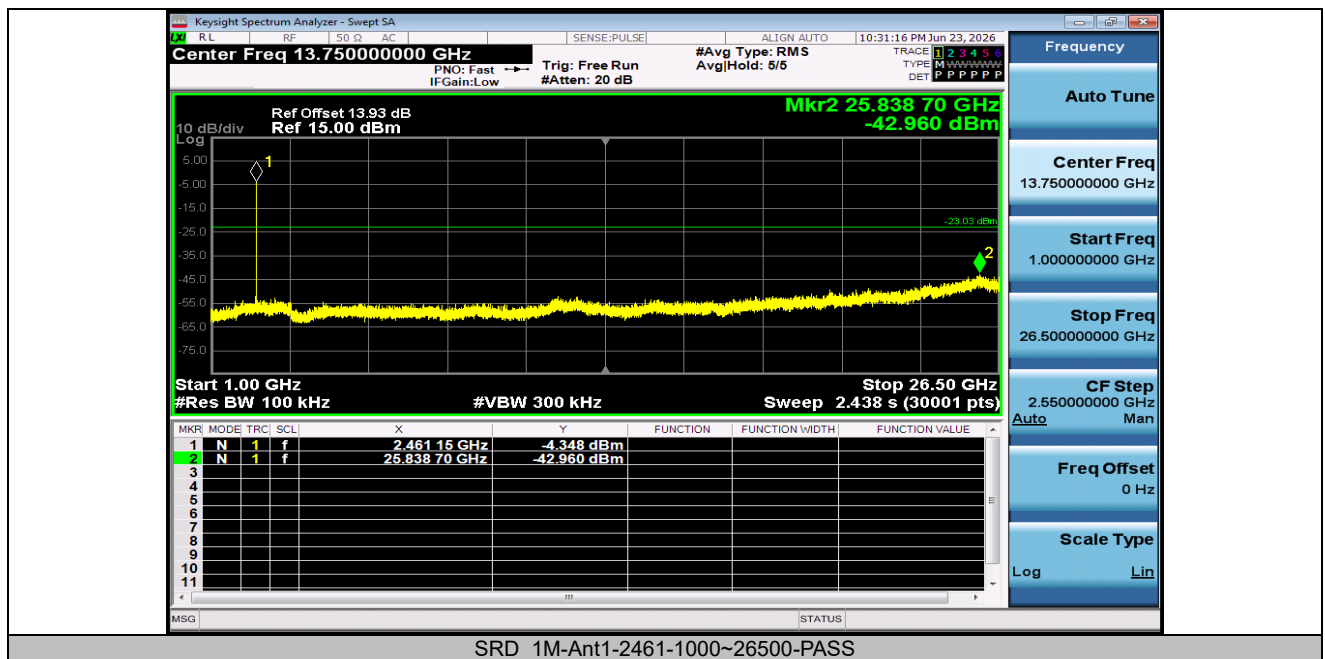


SRD 1M-Ant1-2430-30~1000-PASS

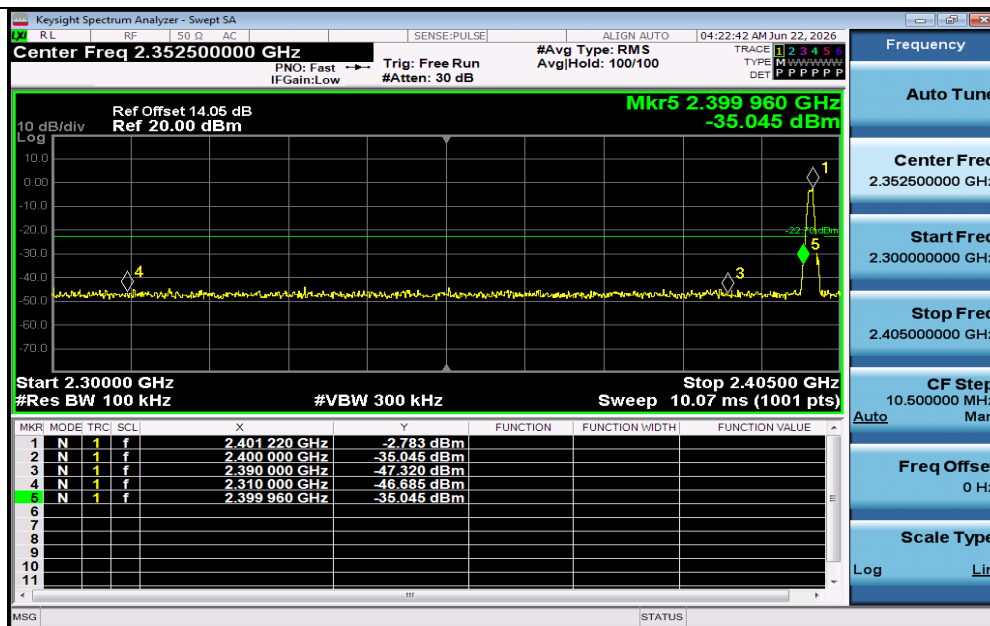


SRD 1M-Ant1-2430-1000~26500-PASS

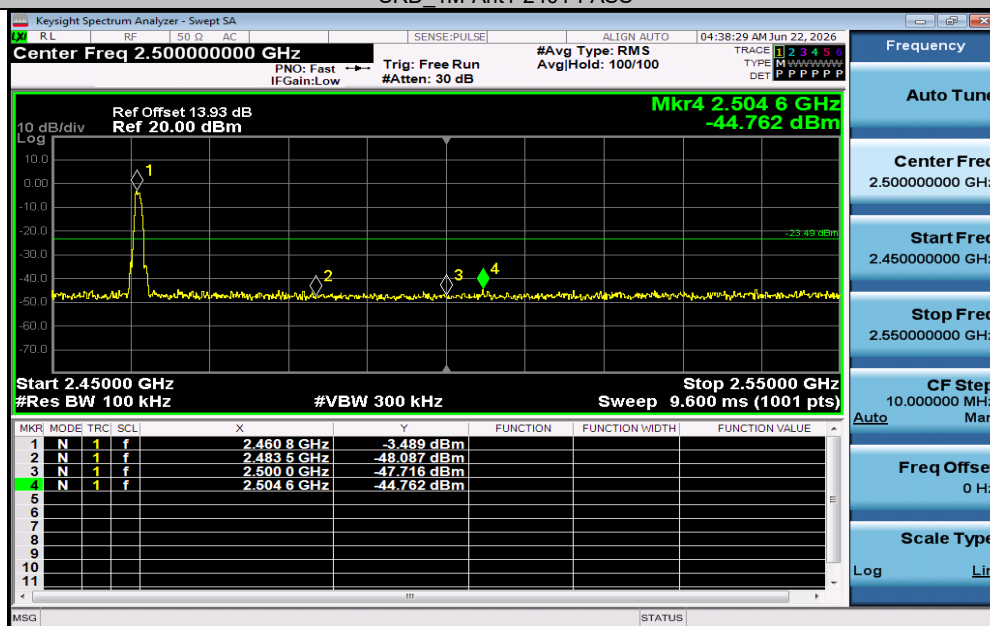




Band edge measurements  
Module1

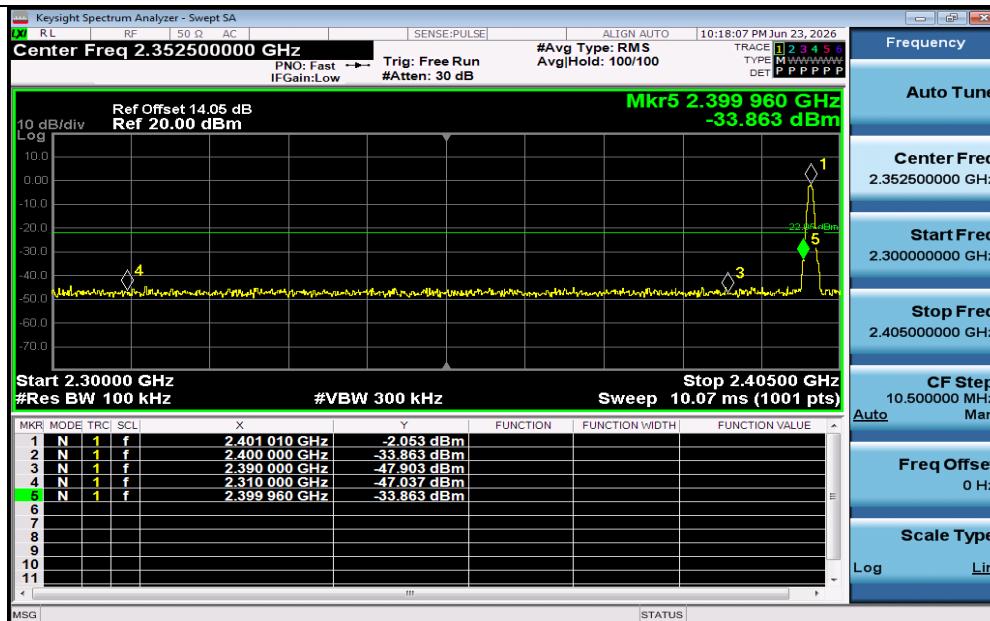


SRD 1M-Ant1-2401-PASS

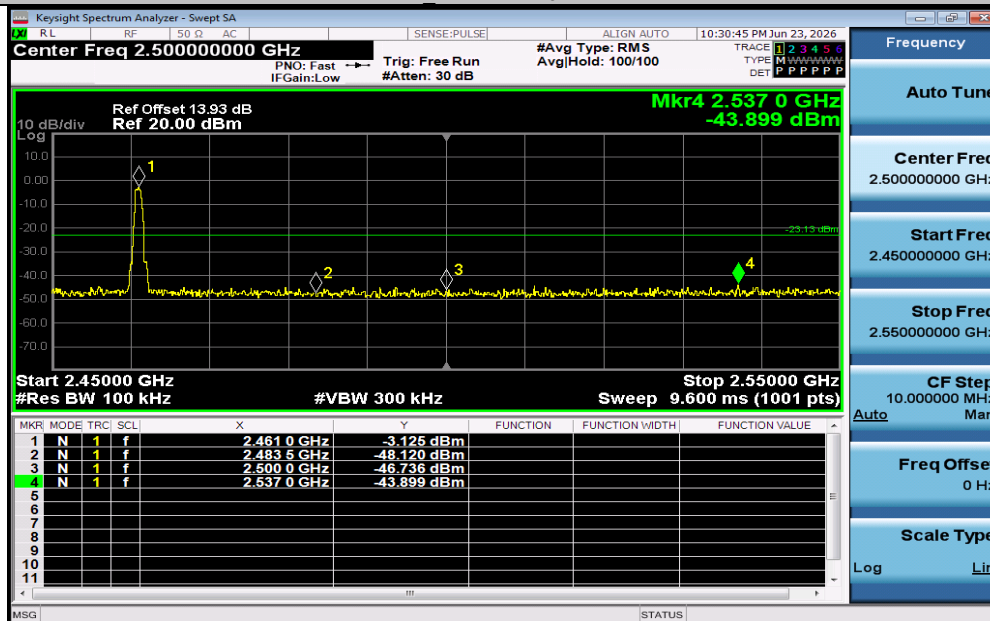


SRD 1M-Ant1-2461-PASS

## Module2



SRD\_1M-Ant1-2401-PASS



SRD\_1M-Ant1-2461-PASS

## **APPENDIX G POWER SPECTRAL DENSITY**

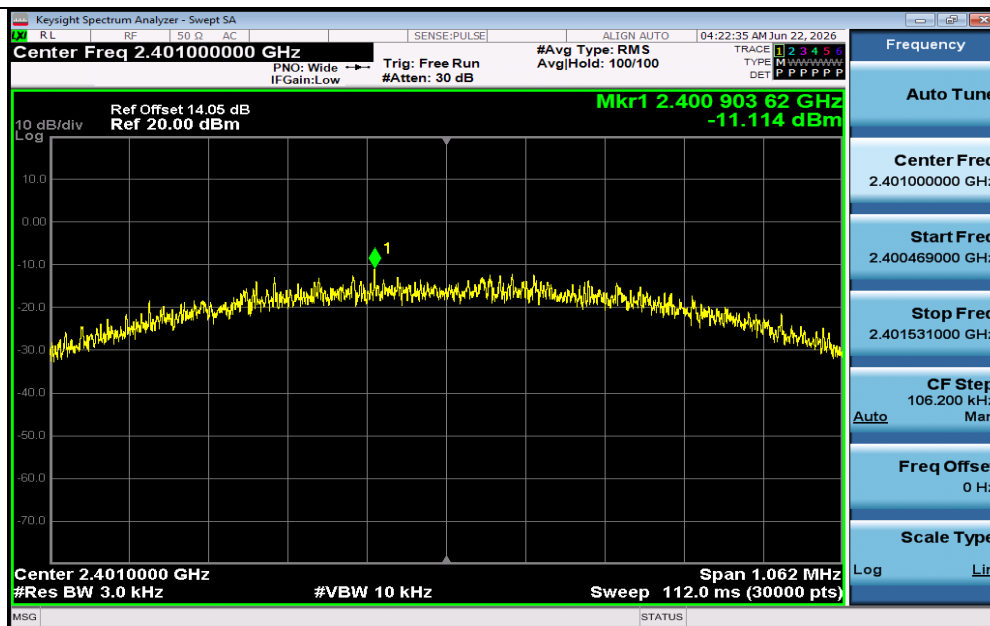
#### Module1

| Test Mode | Antenna | Frequency [MHz] | Result [dBm/3kHz] | Limit [dBm/3kHz] | Verdict |
|-----------|---------|-----------------|-------------------|------------------|---------|
| SRD_1M    | Ant1    | 2401            | -11.11            | ≤8.00            | PASS    |
| SRD_1M    | Ant1    | 2430            | -12.87            | ≤8.00            | PASS    |
| SRD_1M    | Ant1    | 2461            | -13.02            | ≤8.00            | PASS    |

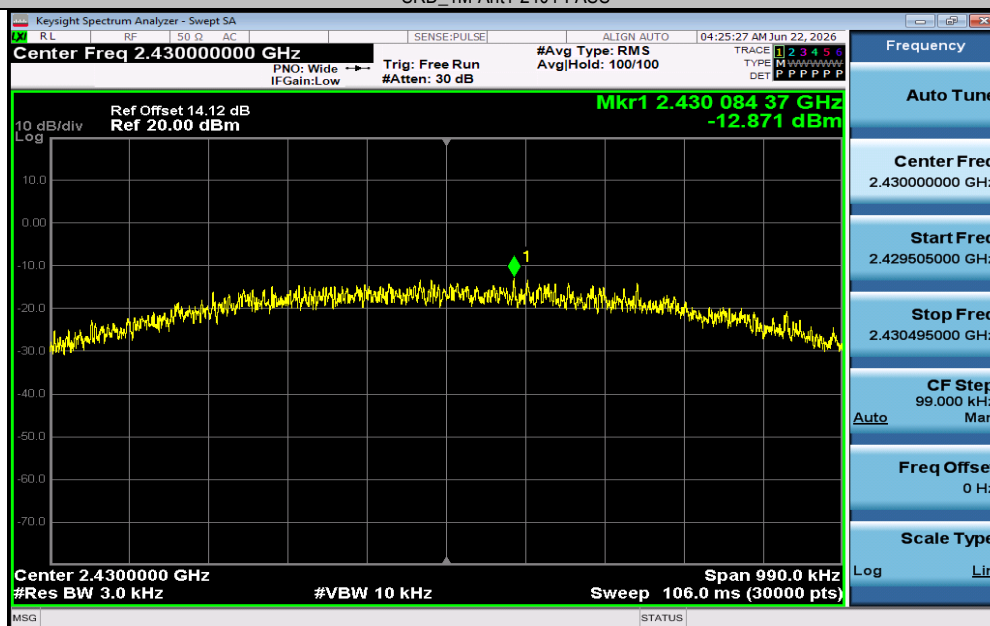
#### Module2

| Test Mode | Antenna | Frequency [MHz] | Result [dBm/3kHz] | Limit [dBm/3kHz] | Verdict |
|-----------|---------|-----------------|-------------------|------------------|---------|
| SRD_1M    | Ant1    | 2401            | -11.52            | ≤8.00            | PASS    |
| SRD_1M    | Ant1    | 2430            | -11.56            | ≤8.00            | PASS    |
| SRD_1M    | Ant1    | 2461            | -12.32            | ≤8.00            | PASS    |

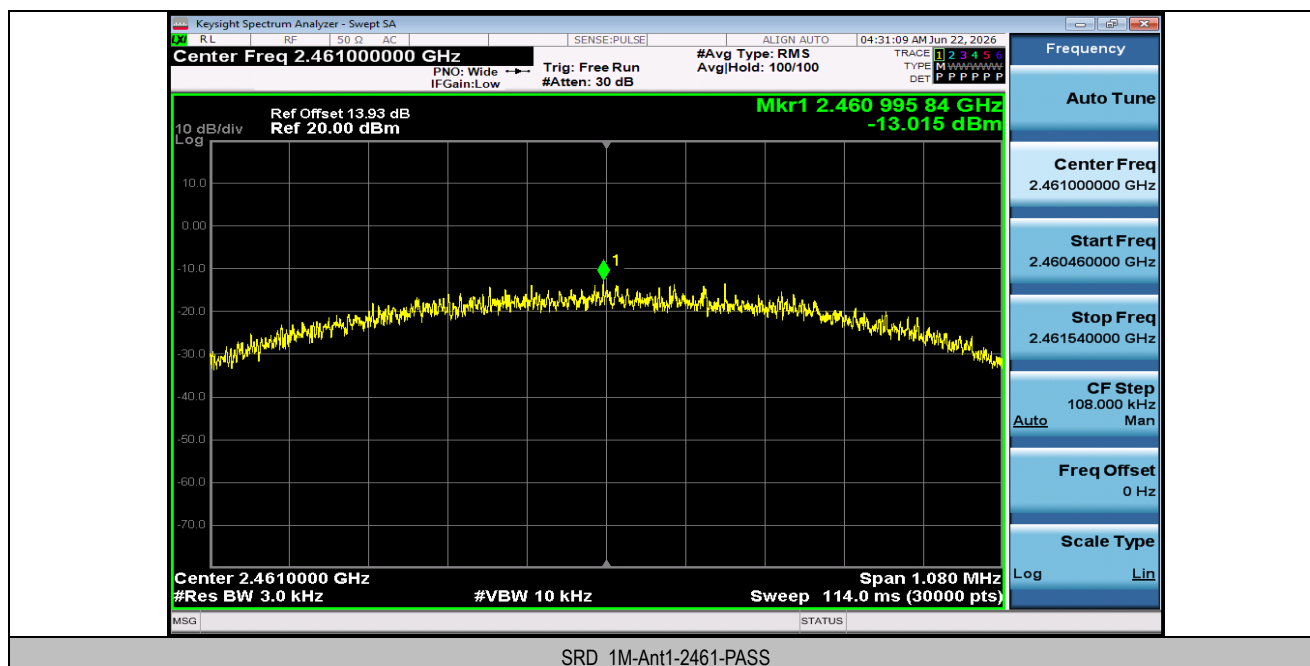
# Test Graphs Module1



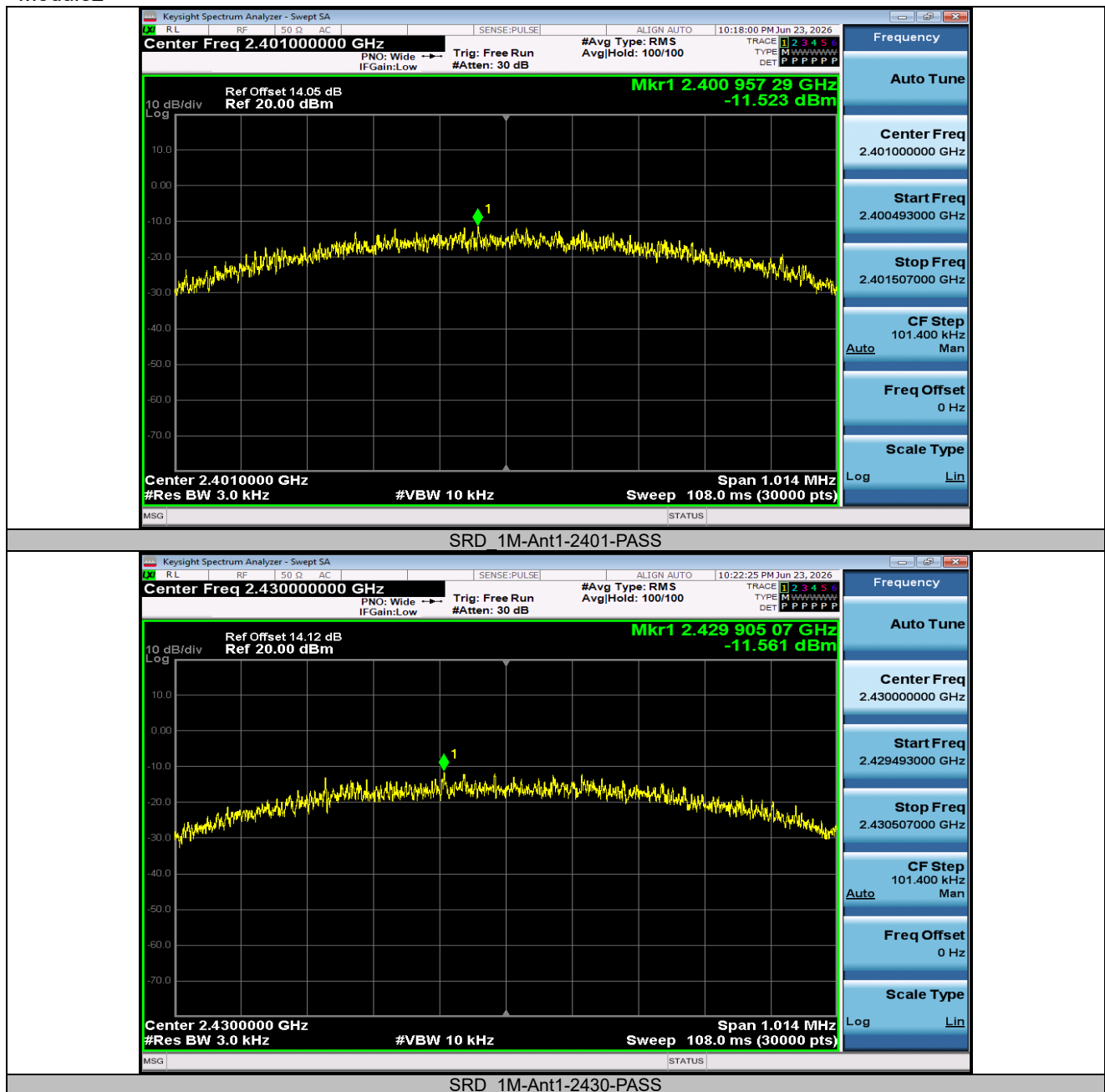
SRD\_1M-Ant1-2401-PASS

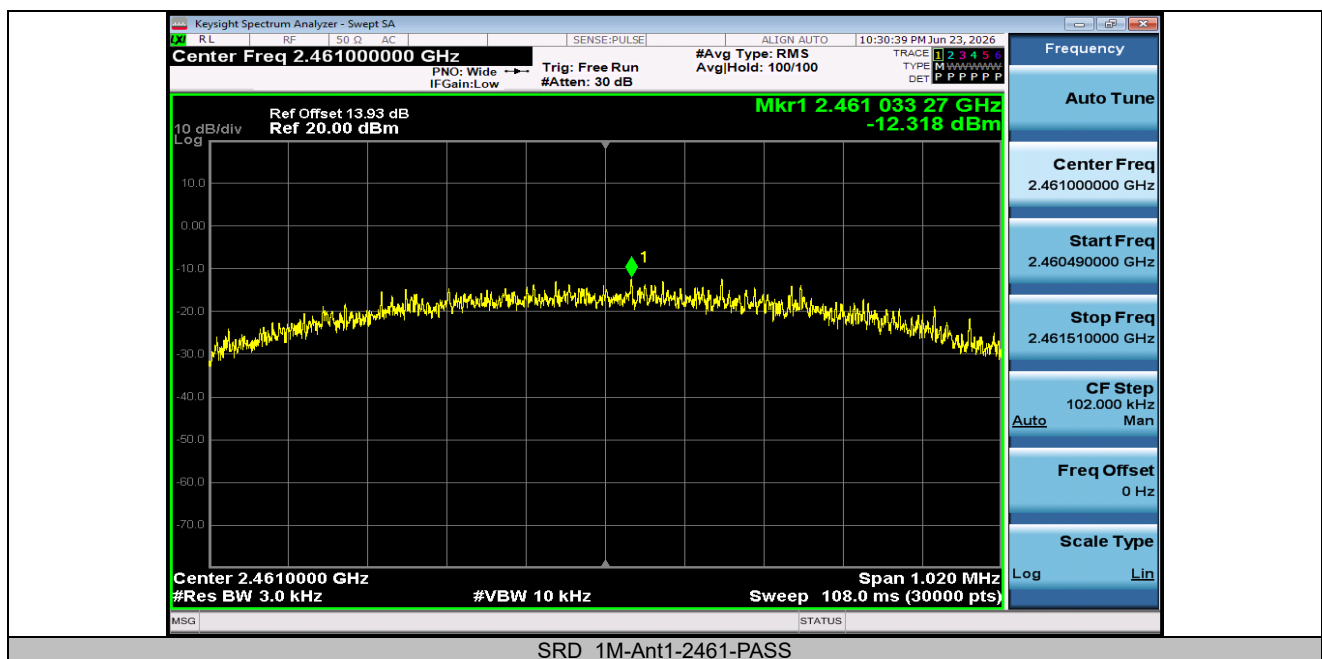


SRD\_1M-Ant1-2430-PASS



## Module2





## Statement

1. The report is invalid without the official seal or special seal of Shenzhen Haiyun Standard Technical Co., Ltd. (hereinafter referred to as the unit).
2. The report is invalid without the signature of the approver.
3. The report is invalid if altered arbitrarily.
4. The report shall not be partially copied without the written approval of the unit.
5. The reported test results are only valid for the tested samples.
6. If there is any objection to the test report, it shall be submitted to the test unit within 15 days from the date of receiving the report, and the overdue shall not be accepted.

## Shenzhen Haiyun Standard Technical Co., Ltd.

Address: Room 110, 111, 112, 113, 115, 116, Block B, Jinyuan Business Building, No. 302, Xixiang Avenue, Labor Community, Xixiang Street, Baoan District, Shenzhen, China

**End of Test Report**