

FCC & ISED Radio Test Report

**FCC ID: 2BKM7-VS5SEIRES
IC: 28455-VS5SEIRES**

The report concerns: Original Grant

Report Reference No.....: 25EFSS05045 07011
Date Sample(s) Received.....: 2025-05-20
Date of Tested.....: From 2025-05-25 to 2025-06-04
Date of issue.....: 2025-06-11
Testing Laboratory: DongGuanShuoXin Electronic Technology Co., Ltd.
Zone A, 1F, No. 6, XinGang Road YuanGang Street,
XinAn District, ChangAn Town, DongGuan City,
GuangDong, China
Address

Applicant's name: Gibson, Inc.
Address: 209 10th Avenue South, Suite 460, Nashville, TN
USA 37203

Equipment.....: PROFESSIONAL MONITORING SYSTEM
Trade Mark: 
Model: V4S5, V6S5, V8S5
Ratings: I/P: 100-240V~ 60/50Hz 325W MAX

Test Engineer:

Jelena OuYang

Jelena OuYang

Responsible Engineer :

Leo Chen

Leo Chen

Authorized Signatory:

Smile Wang

Smile Wang

| Table of Contents | Page |
|---|-----------|
| 1 TEST REPORT DECLARE | 4 |
| 2 SUMMARY OF TEST RESULTS | 5 |
| 2.1 MEASUREMENT UNCERTAINTY | 6 |
| 3 GENERAL INFORMATION | 7 |
| 3.1 GENERAL DESCRIPTION OF EUT | 7 |
| 3.2 DESCRIPTION OF TEST MODES | 9 |
| 3.3 PARAMETERS OF TEST SOFTWARE | 9 |
| 3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED | 10 |
| 3.5 SUPPORT UNITS | 10 |
| 3.6 TEST ENVIRONMENT CONDITIONS | 10 |
| 4 AC POWER LINE CONDUCTED EMISSIONS TEST | 11 |
| 4.1 LIMIT | 11 |
| 4.2 TEST PROCEDURE | 11 |
| 4.3 MEASUREMENT INSTRUMENTS LIST | 11 |
| 4.4 TESTSETUP | 12 |
| 4.5 EUT OPERATING CONDITIONS | 12 |
| 4.6 TEST RESULTS | 13 |
| 5 RADIATED EMISSION TEST | 15 |
| 5.1 LIMIT | 15 |
| 5.2 TEST PROCEDURE | 16 |
| 5.3 MEASUREMENT INSTRUMENTS LIST | 17 |
| 5.4 TESTSETUP | 17 |
| 5.5 EUT OPERATING CONDITIONS | 18 |
| 5.6 TEST RESULT- 9KHZ TO 30MHZ | 19 |
| 5.7 TEST RESULT- 30MHZ TO 1000MHZ | 20 |
| 5.8 TEST RESULT- ABOVE 1000MHZ (BAND EDGE) | 22 |
| 5.9 TEST RESULTS - ABOVE 1000MHZ (HARMONIC) | 30 |
| 6 BANDWIDTH TEST | 42 |
| 6.1 LIMIT | 42 |
| 6.2 TEST PROCEDURE AND SETTING | 42 |
| 6.3 MEASUREMENT INSTRUMENTS LIST | 42 |
| 6.4 TEST SETUP | 42 |
| 6.5 EUT OPERATION CONDITIONS | 42 |

| Table of Contents | Page |
|---|-----------|
| 6.6 TESTRESULTS | 43 |
| 7 MAXIMUM OUTPUT POWER | 45 |
| 7.1 LIMIT | 45 |
| 7.2 TEST PROCEDURE | 45 |
| 7.3 MEASUREMENT INSTRUMENTS LIST | 45 |
| 7.4 TEST SETUP | 45 |
| 7.5 EUT OPERATION CONDITIONS | 45 |
| 7.6 TEST RESULTS | 46 |
| 8 CONDUCTED SPURIOUS EMISSION | 47 |
| 8.1 LIMIT | 47 |
| 8.2 TEST PROCEDURE | 47 |
| 8.3 MEASUREMENT INSTRUMENTS LIST | 47 |
| 8.4 TEST SETUP | 47 |
| 8.5 EUT OPERATION CONDITIONS | 47 |
| 8.6 TEST RESULTS | 48 |
| 9 POWER SPECTRAL DENSITY TEST | 50 |
| 9.1 LIMIT | 50 |
| 9.2 TEST PROCEDURE | 50 |
| 9.3 MEASUREMENT INSTRUMENTS LIST | 50 |
| 9.4 TEST SETUP | 50 |
| 9.5 EUT OPERATION CONDITIONS | 50 |
| 9.6 TEST RESULTS | 51 |
| 10 FREQUENCY STABILITY MEASUREMENT | 52 |
| 10.1 LIMIT | 52 |
| 10.2 TEST PROCEDURE | 52 |
| 10.3 MEASUREMENT INSTRUMENTS LIST | 52 |
| 10.4 TEST SETUP | 52 |
| 10.5 EUT OPERATION CONDITIONS | 52 |
| 10.6 TEST RESULTS | 53 |

1 TEST REPORT DECLARE

| | |
|-------------------|---|
| Applicant for FCC | Gibson, Inc. |
| Address for FCC | 209 10th Avenue South, Suite 460, Nashville, TN USA 37203 |
| Manufacturer | Gibson, Inc. |
| Address | 209 10th Avenue South, Suite 460, Nashville, TN USA 37203 |
| Factory | EVERVICTORY ELECTRONIC COMPANY LIMITED |
| Address | Chu Chi Management District, Hu Men Town, Dong-Guan City, Guang-Dong Province, P.R. China |
| Equipment | PROFESSIONAL MONITORING SYSTEM |
| Model No. | V4S5, V6S5, V8S5 |
| Trade Mark |  |
| Standard | FCC Part15, Subpart C (15.247) RSS-247 Issue 3, Aug. 2023 RSS-Gen Issue 5 Mar. 2019 ANSI C63.10-2013 |

We Declare:

The equipment described above is tested by DongGuanShuoXin Electronic Technology Co., Ltd(ATT). and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and DongGuanShuoXin Electronic Technology Co., Ltd.(ATT) is assumed of full responsibility for the accuracy and completeness of these tests.

ATT is not responsible for the sampling stage, so the results only apply to the sample as received.

ATT's reports apply only to the specific samples tested under conditions. It is manufacturer's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. ATT shall have no liability for any declarations, inferences or generalizations drawn by the client or others from ATT issued reports.

2 SUMMARY OF TEST RESULTS

The EUT have been tested according to the applicable standards as referenced below:

| Standard(s) Section | | Test Item | Judgment | Remark |
|-------------------------------------|--|-----------------------------------|----------|---------|
| FCC | ISED | | | |
| 15.207 | RSS-Gen8.8 | AC Power Line Conducted Emissions | PASS | ----- |
| 15.247(d) 15.205(a) 15.209(a) | RSS-247 5.5 RSS-Gen8.9 RSS-Gen8.10 | Radiated Emissions | PASS | ----- |
| 15.247(a)(2) | RSS-247 5.2 (a) RSS-Gen6.7 | Bandwidth | PASS | ----- |
| 15.247(b)(3) | RSS-247 5.4 (d) | Maximum Output Power | PASS | ----- |
| 15.247(d) | RSS-247 5.5 | ConductedSpurious Emission | PASS | ----- |
| 15.247(e) | RSS-247 5.2 (b) | Power Spectral Density | PASS | ----- |
| - | RSS-Gen 6.11 | Frequency Stability | 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 tocomply with the provisions of 15.203.

2.1 MEASUREMENT UNCERTAINTY

| Test Item | Uncertainty |
|---|-----------------------|
| Uncertainty for Conduction emission test (9kHz-150kHz) | 3.7 dB |
| Uncertainty for Conduction emission test (150kHz-30MHz) | 3.3 dB |
| Uncertainty for Radiation Emission test (30MHz-200MHz) | 4.60 dB (Polarize: V) |
| | 4.60 dB (Polarize: H) |
| Uncertainty for Radiation Emission test (200MHz-1GHz) | 6.10 dB (Polarize: V) |
| | 5.08 dB (Polarize: H) |
| Uncertainty for Radiation Emission test (1GHz-6GHz) | 5.01 dB (Polarize: V) |
| | 5.01 dB (Polarize: H) |
| Uncertainty for Radiation Emission test (6GHz-18GHz) | 5.26 dB (Polarize: V) |
| | 5.26 dB (Polarize: H) |
| Uncertainty for Radiation Emission test (18GHz-40GHz) | 5.06 dB (Polarize: V) |
| | 5.06 dB (Polarize: H) |
| Uncertainty for radio frequency | ±0.048kHz |
| Uncertainty for conducted RF Power | ±0.32dB |

Note:

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

Test Facility:

The Test site used by DongGuanShuoXin Electronic Technology Co., Ltd. to collect test data is located on the Zone A, 1F, No. 6, XinGang Road YuanGang Street, XinAn District, ChangAn Town, DongGuan City, GuangDong, China

The test facility is recognized, certified, or accredited by the following organizations:

| Item | Registration No. | Expiration Date |
|--|----------------------------------|-----------------|
| CNAS | L3098 | 2030-08-27 |
| A2LA | 4893.01 | 2026-06-30 |
| Innovation, Science and Economic Development Canada (ISED) | 11033A | 2026-06-30 |
| Federal Communications Commission (FCC) | 171688 Designation No.:CN1235 | 2026-06-30 |

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

| | | |
|-------------------------|---|----------------------------|
| Equipment | PROFESSIONAL MONITORING SYSTEM | |
| Brand Name |  | |
| Test Model | V6S5 | |
| Series Model | V4S5, V6S5, V8S5 | |
| Model Difference(s) | All models are identical to each other except for the model name and Appearance size. | |
| Hardware Version | 1.0 | |
| Software Version | 1.0 | |
| Power Source | AC main | |
| Power Rating | I/P: 100-240V~ 60/50Hz 325W MAX | |
| Operation Frequency | 2402 MHz ~ 2480 MHz | |
| Modulation Technology | GFSK | |
| Bit Rate of Transmitter | 1Mbps /2Mbps | |
| Antenna Information | Antenna Type: FPC | Maximum Peak Gain: 0.44dBi |
| Max. Output power | 1Mbps: 3.577dBm (0.002279W) 2Mbps: 3.598dBm (0.002290W) | |
| Max. EIRP | 1Mbps: 4.017dBm (0.002522W) 2Mbps: 4.038dBm (0.002534W) | |

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) |
|---------|-----------------|---------|-----------------|
| 00 | 2402 | 20 | 2442 |
| 01 | 2404 | 21 | 2444 |
| 02 | 2406 | 22 | 2446 |
| 03 | 2408 | 23 | 2448 |
| 04 | 2410 | 24 | 2450 |
| 05 | 2412 | 25 | 2452 |
| 06 | 2414 | 26 | 2454 |
| 07 | 2416 | 27 | 2456 |
| 08 | 2418 | 28 | 2458 |
| 09 | 2420 | 29 | 2460 |
| 10 | 2422 | 30 | 2462 |
| 11 | 2424 | 31 | 2464 |
| 12 | 2426 | 32 | 2466 |
| 13 | 2428 | 33 | 2468 |
| 14 | 2430 | 34 | 2470 |
| 15 | 2432 | 35 | 2472 |
| 16 | 2434 | 36 | 2474 |
| 17 | 2436 | 37 | 2476 |
| 18 | 2438 | 38 | 2478 |
| 19 | 2440 | 39 | 2480 |

3.2 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 | BLE 1M TX ModeNOTE (1) |
| Mode 2 | BLE 2M TX ModeNOTE (1) |
| Mode 3 | BLE 2M TX Mode Channel 39 |

Following mode(s) as (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 | BLE 2M TX Mode Channel 39 |

| Radiated emissions test - Below 1GHz | |
|--------------------------------------|---------------------------|
| Final Test Mode | Description |
| Mode 3 | BLE 2M TX Mode Channel 39 |

| Radiated emissions test - Above 1GHz | |
|--------------------------------------|------------------------|
| Final Test Mode | Description |
| Mode 1 | BLE 1M TX ModeNOTE (1) |
| Mode 2 | BLE 2M TX ModeNOTE (1) |

| Conducted test | |
|-----------------|------------------------|
| Final Test Mode | Description |
| Mode 1 | BLE 1M TX ModeNOTE (1) |
| Mode 2 | BLE 2M TX ModeNOTE (1) |

Note:

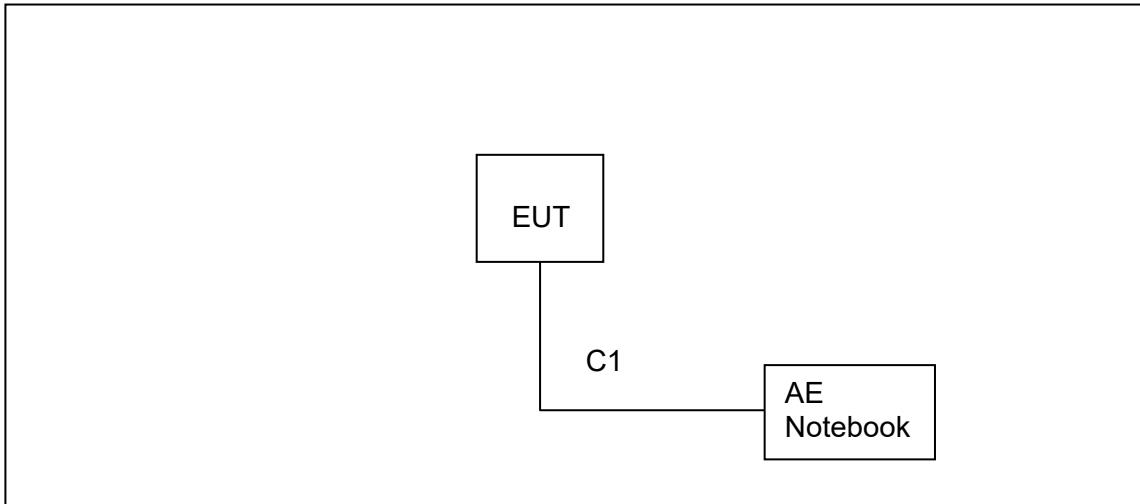
(1) The measurements are performed at the high, middle, low available channels.

3.3 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. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of BT LE

| Test Software | Simplicity Studio.exe | | |
|------------------|-----------------------|---------|---------|
| Frequency (MHz) | 2402 | 2440 | 2480 |
| Parameters-1Mbps | Default | Default | Default |
| Parameters-2Mbps | Default | Default | Default |

3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 SUPPORT UNITS

| Item | Equipment | Brand | Model No. | Series No. |
|------|-----------|--------|-----------|------------|
| AE | Notebook | Lenovo | / | / |

| Item | Cable Type | Shielded Type | Ferrite Core | Length |
|------|------------|---------------|--------------|--------|
| C1 | DC Cable | NO | NO | 0.8m |

3.6 TEST ENVIRONMENT CONDITIONS

| Test Item | Temperature | Humidity | Test Voltage |
|-----------------------------------|-------------|----------|--------------|
| AC Power Line Conducted Emissions | 25.6°C | 69% | AC 120V 60Hz |
| Radiated Emissions-9K-30MHz | 23°C | 60% | AC 120V 60Hz |
| Radiated Emissions-30 MHz to 1GHz | 21.5°C | 67% | AC 120V 60Hz |
| Radiated Emissions-Above 1000 MHz | 21.5°C | 67% | AC 120V 60Hz |
| Bandwidth | 25°C | 60% | AC 120V 60Hz |
| Maximum Output Power | 25°C | 60% | AC 120V 60Hz |
| Conducted Spurious Emission | 25°C | 60% | AC 120V 60Hz |
| Power Spectral Density | 25°C | 60% | AC 120V 60Hz |

4 AC POWER LINE CONDUCTED EMISSIONS TEST

4.1 LIMIT

| Frequency of Emission (MHz) | Limit (dB μ V) | |
|-----------------------------|--------------------|-----------|
| | Quasi-peak | Average |
| 0.15 -0.50 | 66 to 56* | 56 to 46* |
| 0.50 -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.

The following table is the setting of the receiver

| Receiver Parameters | Setting |
|---------------------|----------|
| Attenuation | 10 dB |
| Start Frequency | 0.15 MHz |
| Stop Frequency | 30 MHz |
| IF Bandwidth | 9 kHz |

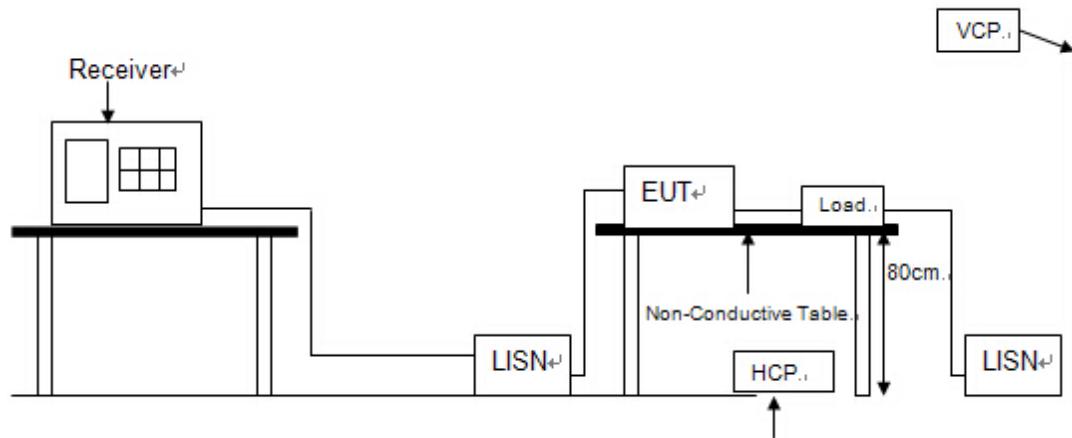
4.2 TEST PROCEDURE

- 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 groundplane 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.

4.3 MEASUREMENT INSTRUMENTS LIST

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|----------------------|--------------------|----------------------|-----------------|------------------|
| 1 | Pulse Limiter | MTS-systemtec hnik | MTS-IMP-136 | 261115-010-0024 | 11/17/2025 |
| 2 | EMI Test Receiver | R&S | ESCI | 101308 | 05/20/2026 |
| 3 | LISN | AFJ | LS16 | 16011103219 | 05/20/2026 |
| 4 | LISN | Schwarzbeck | NSLK 8127 | 8127-432 | 05/20/2026 |
| 5 | Measurement Software | Farad | EZ-EMC (Ver.ATT-03A) | N/A | N/A |

4.4 TESTSETUP

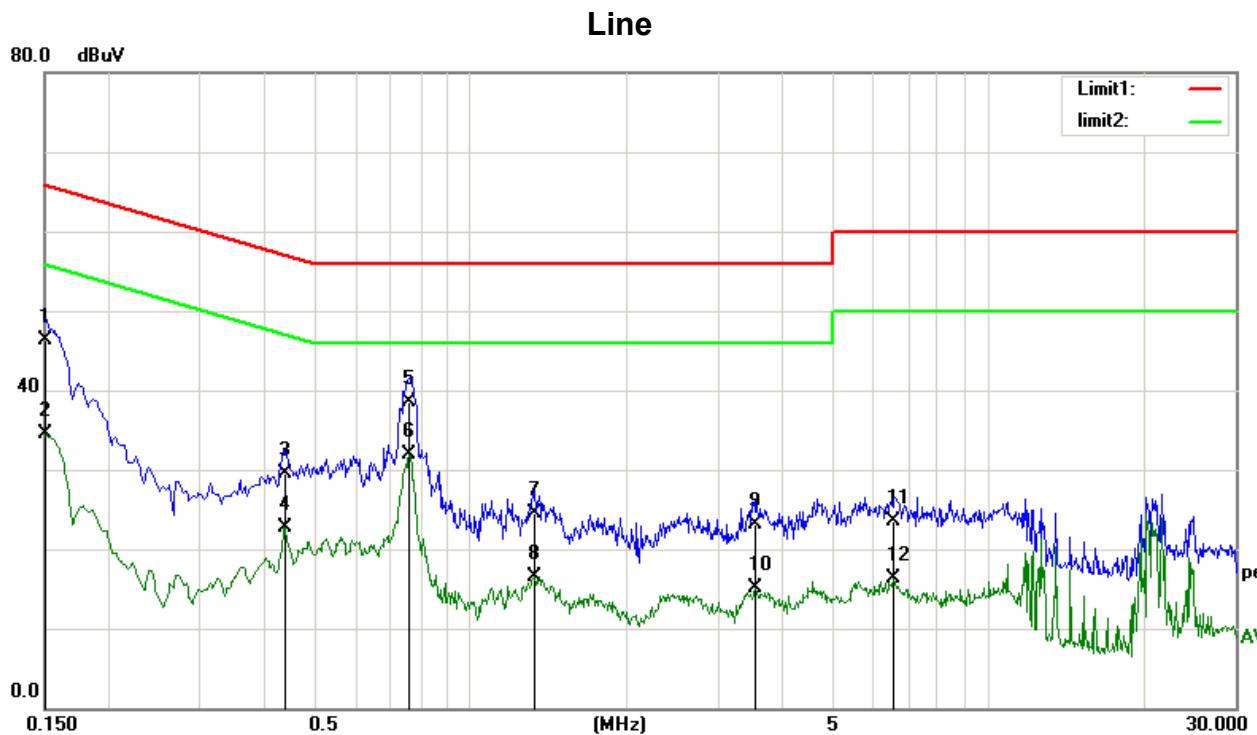


4.5 EUT OPERATING CONDITIONS

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.

4.6 TEST RESULTS

Test Mode: BLE 2M TX Mode Channel 39



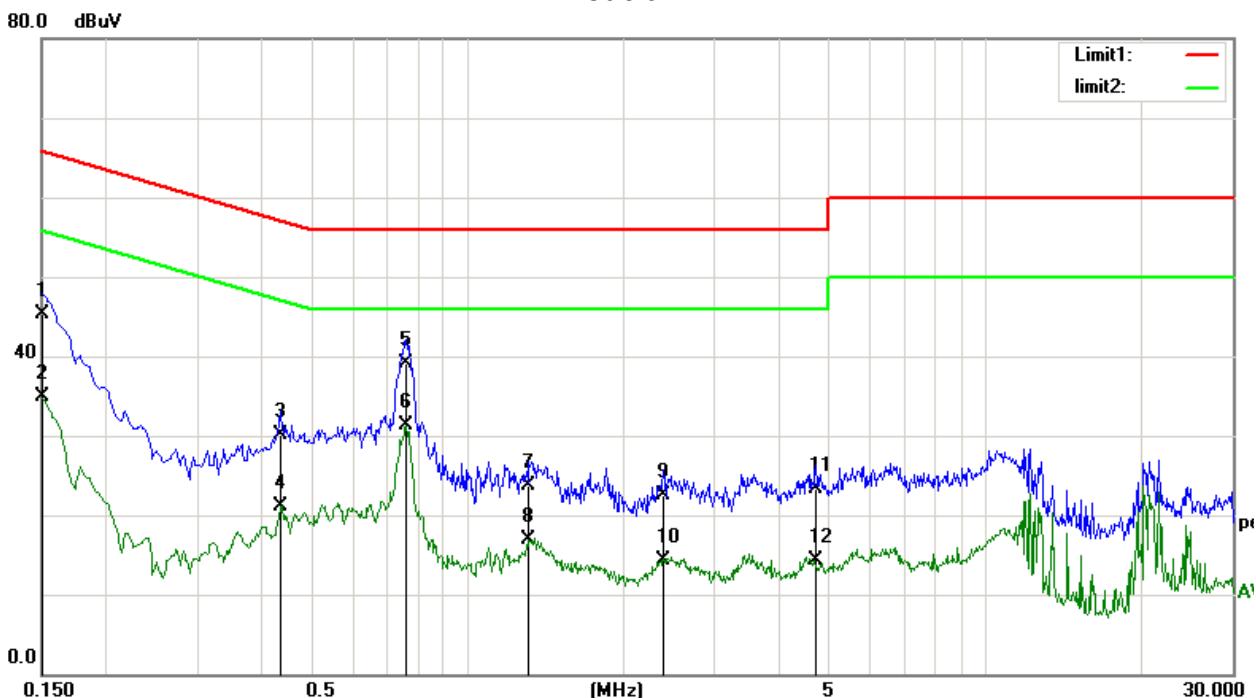
| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark |
|-----|-----------------|----------------|--------------------|---------------|--------------|-------------|--------|
| 1 | 0.1500 | 35.52 | 10.88 | 46.40 | 65.99 | -19.59 | QP |
| 2 | 0.1500 | 23.54 | 10.88 | 34.42 | 55.99 | -21.57 | AVG |
| 3 | 0.4380 | 18.75 | 10.80 | 29.55 | 57.10 | -27.55 | QP |
| 4 | 0.4380 | 11.99 | 10.80 | 22.79 | 47.10 | -24.31 | AVG |
| 5 | 0.7620 | 27.81 | 10.73 | 38.54 | 56.00 | -17.46 | QP |
| 6 | 0.7620 | 21.23 | 10.73 | 31.96 | 46.00 | -14.04 | AVG |
| 7 | 1.3260 | 13.76 | 10.68 | 24.44 | 56.00 | -31.56 | QP |
| 8 | 1.3260 | 5.79 | 10.68 | 16.47 | 46.00 | -29.53 | AVG |
| 9 | 3.5340 | 12.35 | 10.80 | 23.15 | 56.00 | -32.85 | QP |
| 10 | 3.5340 | 4.26 | 10.80 | 15.06 | 46.00 | -30.94 | AVG |
| 11 | 6.5699 | 12.66 | 10.87 | 23.53 | 60.00 | -36.47 | QP |
| 12 | 6.5699 | 5.43 | 10.87 | 16.30 | 50.00 | -33.70 | AVG |

Remarks:

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

Test Mode: BLE 2M TX Mode Channel 39

Neutral



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-----------------------|------------------|-----------------|----------------|--------|
| 1 | 0.1500 | 34.35 | 10.88 | 45.23 | 65.99 | -20.76 | QP |
| 2 | 0.1500 | 24.08 | 10.88 | 34.96 | 55.99 | -21.03 | AVG |
| 3 | 0.4340 | 19.39 | 10.80 | 30.19 | 57.18 | -26.99 | QP |
| 4 | 0.4340 | 10.37 | 10.80 | 21.17 | 47.18 | -26.01 | AVG |
| 5 | 0.7620 | 28.29 | 10.73 | 39.02 | 56.00 | -16.98 | QP |
| 6 | 0.7620 | 20.63 | 10.73 | 31.36 | 46.00 | -14.64 | AVG |
| 7 | 1.3099 | 13.03 | 10.67 | 23.70 | 56.00 | -32.30 | QP |
| 8 | 1.3099 | 6.20 | 10.67 | 16.87 | 46.00 | -29.13 | AVG |
| 9 | 2.3940 | 11.67 | 10.87 | 22.54 | 56.00 | -33.46 | QP |
| 10 | 2.3940 | 3.53 | 10.87 | 14.40 | 46.00 | -31.60 | AVG |
| 11 | 4.7099 | 12.53 | 10.77 | 23.30 | 56.00 | -32.70 | QP |
| 12 | 4.7099 | 3.50 | 10.77 | 14.27 | 46.00 | -31.73 | AVG |

Remarks:

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

5 RADIATED EMISSION TEST

5.1 LIMIT

In case the emission fall within the restricted band specified on 15.205(a) and RSS-Gen 8.10, then the 15.209(a) and RSS-Gen 8.9 limit in the table below has to be followed.

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

| Frequency (MHz) | Field Strength (microvolts/meter) | 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 |

LIMITS OF RADIATED EMISSION MEASUREMENT (9 kHz-30 MHz)

| Frequency (MHz) | Magnetic field strength (H-Field) (μ A/m) | Measurement Distance (meters) |
|--------------------|---|----------------------------------|
| 0.009-0.490 | 6.37/F(kHz) | 300 |
| 0.490-1.705 | 6.37/F(kHz) | 30 |
| 1.705-30.0 | 0.08 | 30 |

LIMITS OF RADIATED EMISSION MEASUREMENT (30 MHz-1000MHz)

| Frequency (MHz) | Field Strength (μ V/m at 3m) |
|--------------------|--------------------------------------|
| 30-88 | 100 |
| 88-216 | 150 |
| 216-960 | 200 |
| Above 960 | 500 |

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

| 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 PART 15C and RSS-247.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (μ V/m).

5.2 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 1GHz)
- b. The measuring distance of 3 m or 1.5m 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 1GHz)
- 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 1GHz.
- 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 1GHz)
- 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 1GHz)
- i. The test result is calculated as the following:
 - (1) Result = Reading + Correct Factor
 - (2) Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain + Attenuator
 - (3) Margin = Result - Limit

| Spectrum Parameter | Setting |
|--|---|
| Attenuation | Auto |
| Start Frequency | 1000 MHz |
| Stop Frequency | 10th carrier harmonic |
| RBW / VBW (Emission in restricted band) | RBW 1MHz VBW 3MHz peak detector for Pk value RMS detector for AV value |

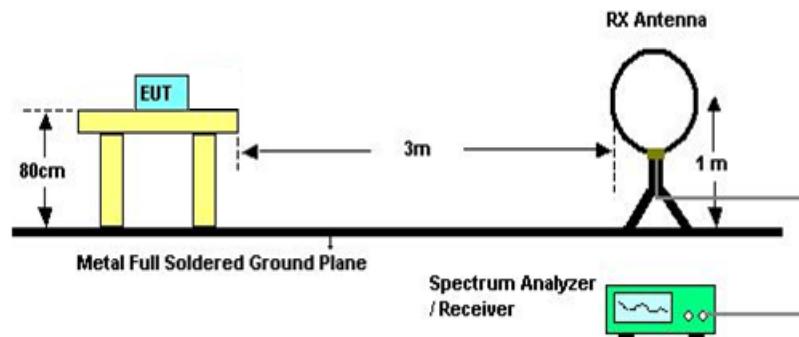
| Receiver Parameter | Setting |
|------------------------|-------------------------------------|
| Attenuation | Auto |
| Start ~ Stop Frequency | 9 kHz~90 kHz for PK/AVG detector |
| Start ~ Stop Frequency | 90 kHz~110 kHz for QP detector |
| Start ~ Stop Frequency | 110 kHz~490 kHz for PK/AVG detector |
| Start ~ Stop Frequency | 490 kHz~30 MHz for QP detector |
| Start ~ Stop Frequency | 30MHz~1000MHz for QP detector |

5.3 MEASUREMENT INSTRUMENTS LIST

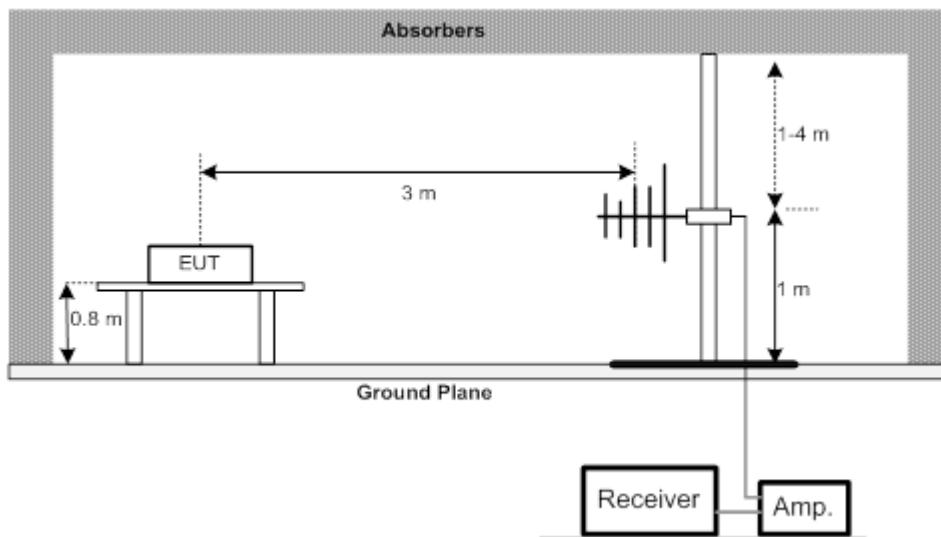
| Item | Equipment | Manufacturer | Model No. | Serial No. | Calibrated until |
|------|------------------------|---------------|----------------------|--------------|------------------|
| 1 | EMI Test Receiver | R&S | ESCI | 101307 | 05/20/2026 |
| 2 | Spectrum Analyzer | Agilent | E4407B | US40240708 | 11/17/2025 |
| 3 | Loop antenna | SCHWARZBECK K | FMZB1519 | 1519-062 | 04/01/2028 |
| 4 | Broadband antenna | SCHWARZBECK | VULB9168 | VULB9168-192 | 03/28/2026 |
| 5 | HORN ANTENNA | SCHWARZBECK | BBHA9120D | 9120D 1065 | 03/27/2026 |
| 6 | Preamplifier Amplifier | HP | 8447F | 3113A05680 | 11/17/2025 |
| 7 | PRE-AMPLIFIER | EMEC | EM01G26G | 60679 | 03/27/2026 |
| 8 | RF Cable | R&S | Test Cable 4 | 4 | 11/17/2025 |
| 9 | RF Cable | R&S | Test Cable 5 | 5 | 11/17/2025 |
| 10 | RF Cable | R&S | Test Cable 9 | 9 | 03/27/2026 |
| 11 | RF Cable | R&S | Test Cable 10 | 10 | 03/27/2026 |
| 12 | Measurement Software | Farad | EZ-EMC (Ver.ATT-03A) | N/A | N/A |

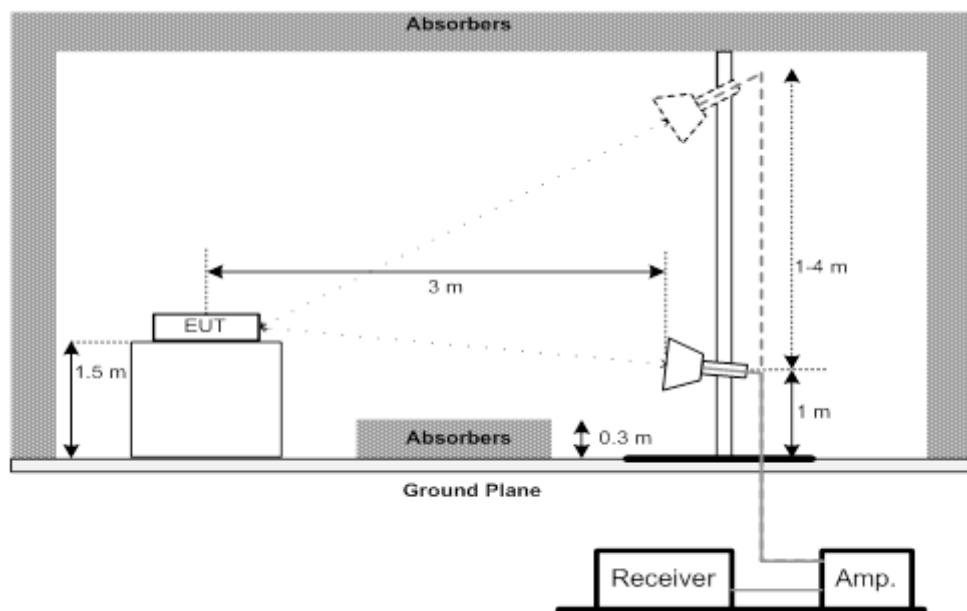
5.4 TESTSETUP

9 kHz-30 MHz



30 MHz to 1 GHz



Above 1 GHz**5.5 EUT OPERATING CONDITIONS**

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULT- 9kHz TO 30MHz

Test Mode: BLE 2M TX Mode Channel 39

| Freq. (MHz) | Reading (dBuV/m) | Limit (dBuV/m) | Margin (dB) | State |
|----------------|---------------------|-------------------|----------------|-------|
| -- | -- | -- | -- | P/F |
| -- | -- | -- | -- | P |
| -- | -- | -- | -- | P |

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

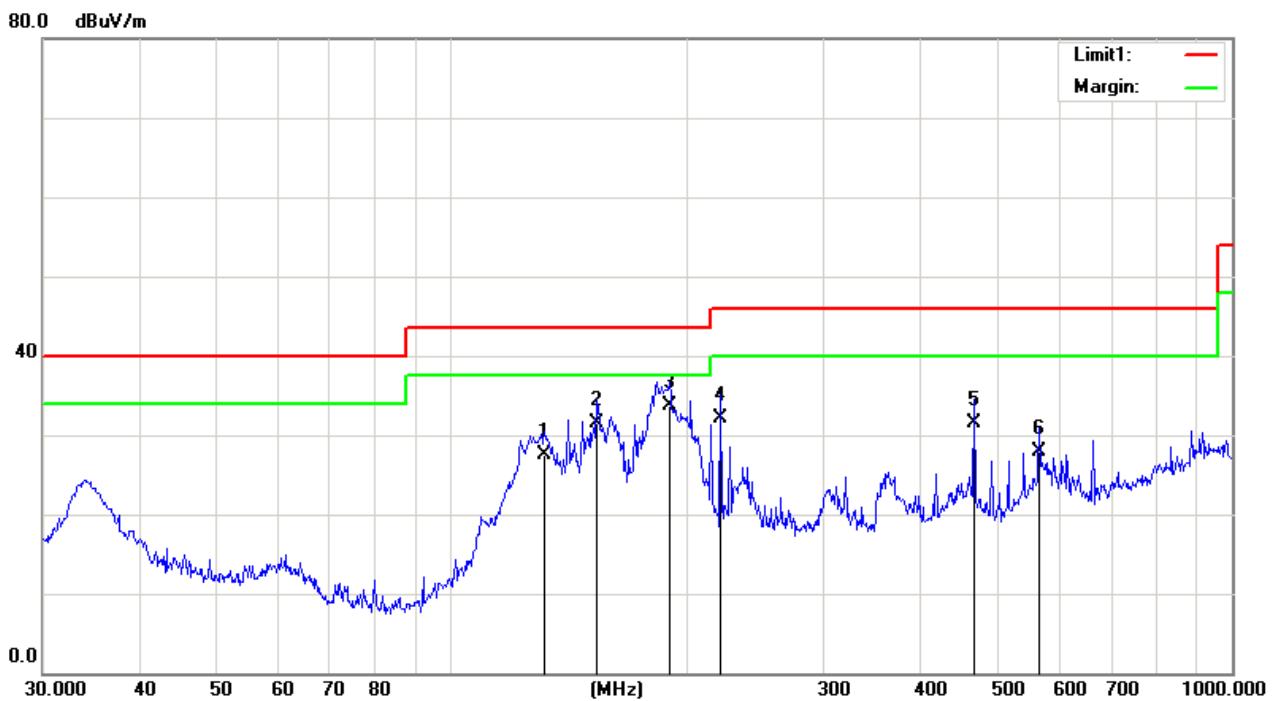
Distance extrapolation factor = $20 \log \left(\frac{\text{specific distance}}{\text{test distance}} \right) \text{dB}$;

Limit line = specific limits(dBuV) + distance extrapolation factor

5.7 TEST RESULT- 30MHz TO 1000MHz

Test Mode : BLE 2M TX Mode Channel 39

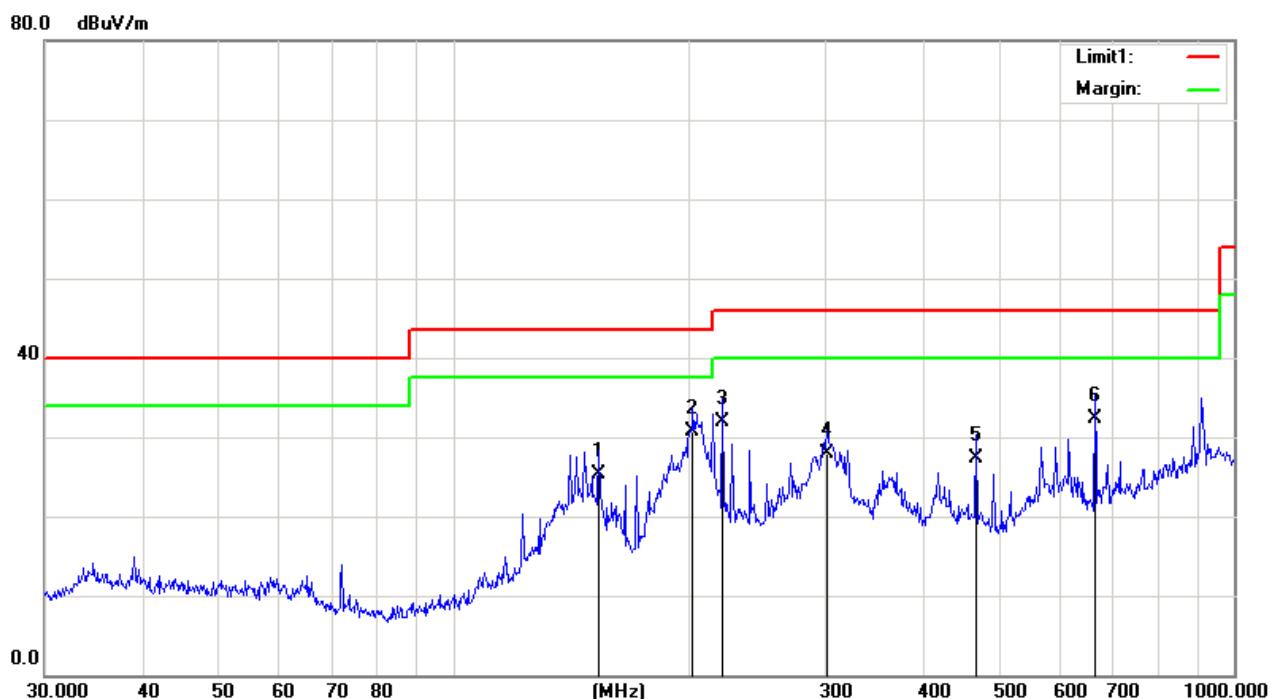
Vertical



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Antenna | Table | | |
|-----|-----|----------|---------|---------|----------|-------|--------|----------|-------|--------|---------|
| | | | Level | Factor | ment | | | | | | |
| | | MHz | dBuV | dB | dBuV/m | dB/m | dB | Detector | cm | degree | Comment |
| 1 | | 131.7575 | 40.42 | -12.98 | 27.44 | 43.50 | -16.06 | QP | 100 | 25 | |
| 2 | | 153.7384 | 42.23 | -10.70 | 31.53 | 43.50 | -11.97 | QP | 300 | 129 | |
| 3 | * | 190.4050 | 47.47 | -13.68 | 33.79 | 43.50 | -9.71 | QP | 100 | 236 | |
| 4 | | 221.3919 | 45.36 | -13.17 | 32.19 | 46.00 | -13.81 | QP | 100 | 24 | |
| 5 | | 467.2348 | 38.54 | -7.11 | 31.43 | 46.00 | -14.57 | QP | 200 | 20 | |
| 6 | | 566.6221 | 32.61 | -4.73 | 27.88 | 46.00 | -18.12 | QP | 100 | 112 | |

Test Mode : BLE 2M TX Mode Channel 39

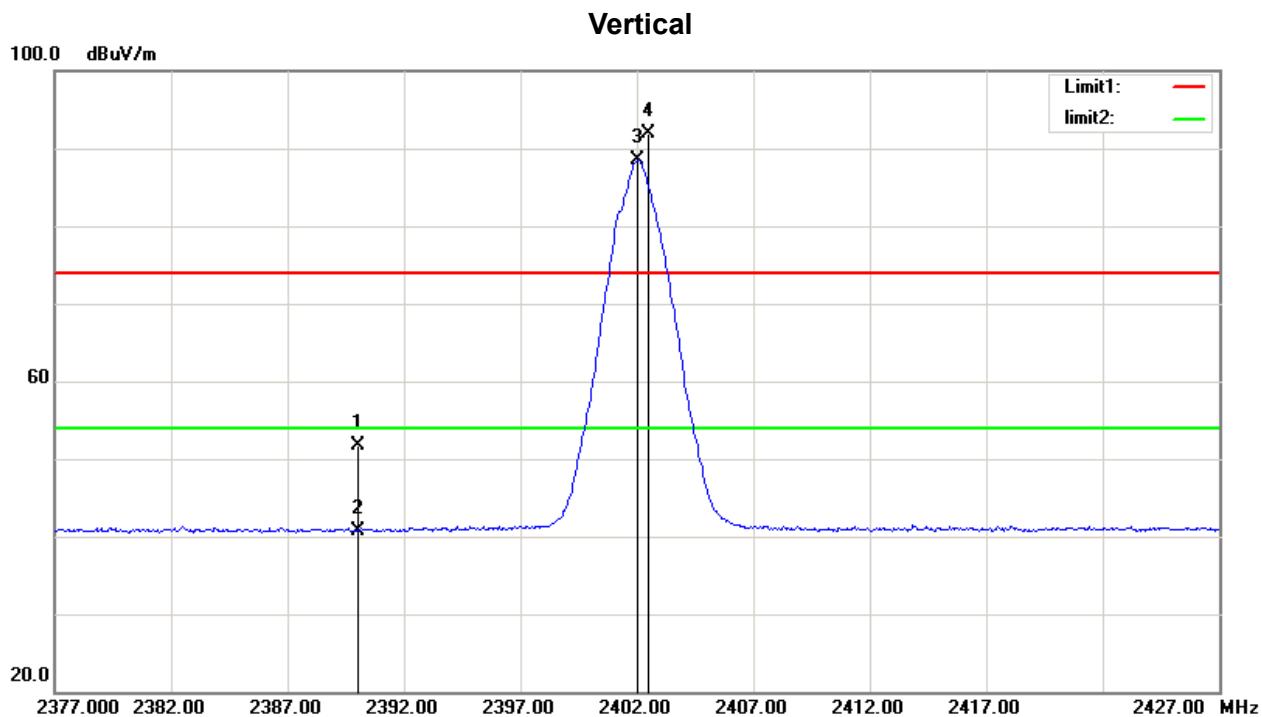
Horizontal



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Antenna | Table | | |
|-----|-----|----------|---------|---------|----------|-------|--------|----------|-------|--------|---------|
| | | | Level | Factor | ment | | | | | Degree | |
| | | MHz | dBuV | dB | dBuV/m | dB/m | dB | Detector | cm | degree | Comment |
| 1 | | 153.7384 | 35.97 | -10.70 | 25.27 | 43.50 | -18.23 | QP | 100 | 145 | |
| 2 | * | 202.8103 | 44.13 | -13.36 | 30.77 | 43.50 | -12.73 | QP | 200 | 254 | |
| 3 | | 221.3919 | 45.11 | -13.17 | 31.94 | 46.00 | -14.06 | QP | 100 | 226 | |
| 4 | | 301.4223 | 37.55 | -9.66 | 27.89 | 46.00 | -18.11 | QP | 300 | 12 | |
| 5 | | 467.2348 | 34.47 | -7.11 | 27.36 | 46.00 | -18.64 | QP | 100 | 326 | |
| 6 | | 663.4728 | 36.99 | -4.76 | 32.23 | 46.00 | -13.77 | QP | 100 | 2 | |

5.8 TEST RESULT- ABOVE 1000MHz (BAND EDGE)

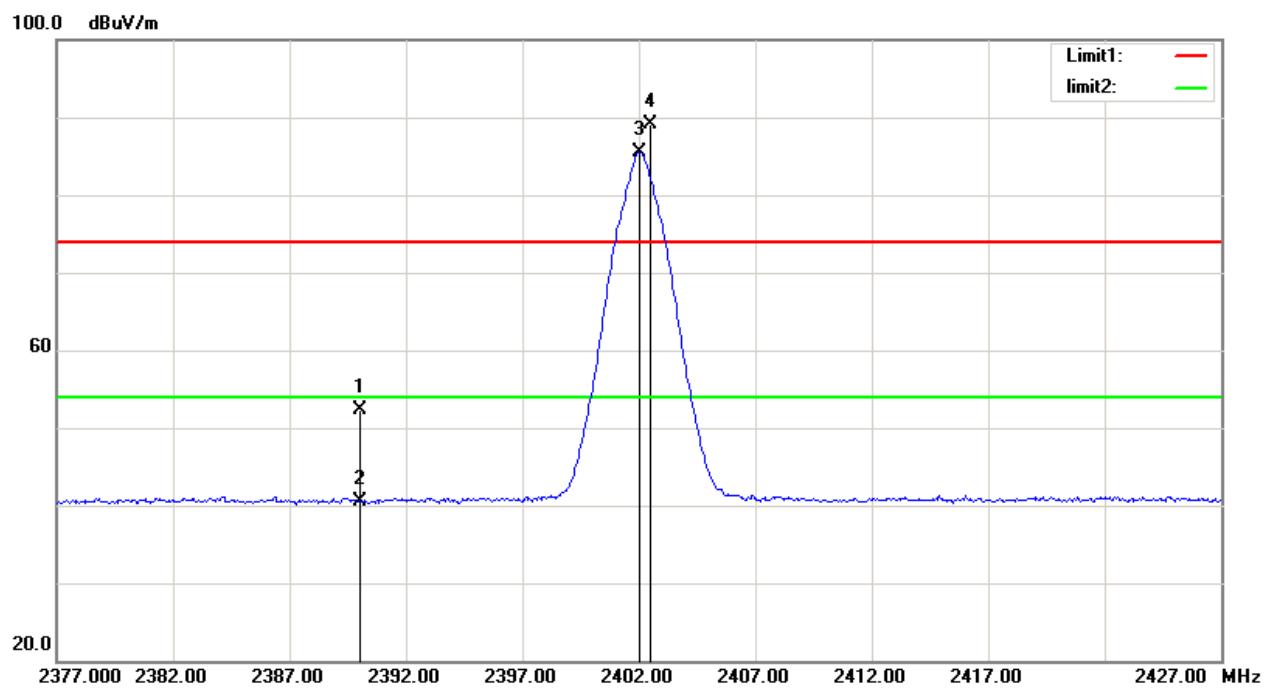
Test Mode: TX 2402 MHz_CH00_1Mbps



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Antenna | Table | | |
|-----|-----|----------|---------|---------|----------|-------|--------|----------|-------|--------|----------|
| | | | Level | Factor | ment | | | | | Degree | |
| | | MHz | dBuV | dB | dBuV/m | dB/m | dB | Detector | cm | degree | Comment |
| 1 | | 2390.000 | 21.47 | 30.14 | 51.61 | 74.00 | -22.39 | peak | 150 | 229 | |
| 2 | | 2390.000 | 10.58 | 30.14 | 40.72 | 54.00 | -13.28 | AVG | 150 | 229 | |
| 3 | * | 2402.000 | 58.34 | 30.15 | 88.49 | 54.00 | 34.49 | AVG | 150 | 229 | No Limit |
| 4 | X | 2402.500 | 61.80 | 30.15 | 91.95 | 74.00 | 17.95 | peak | 150 | 229 | No Limit |

Test Mode: TX 2402 MHz_CH00_1Mbps

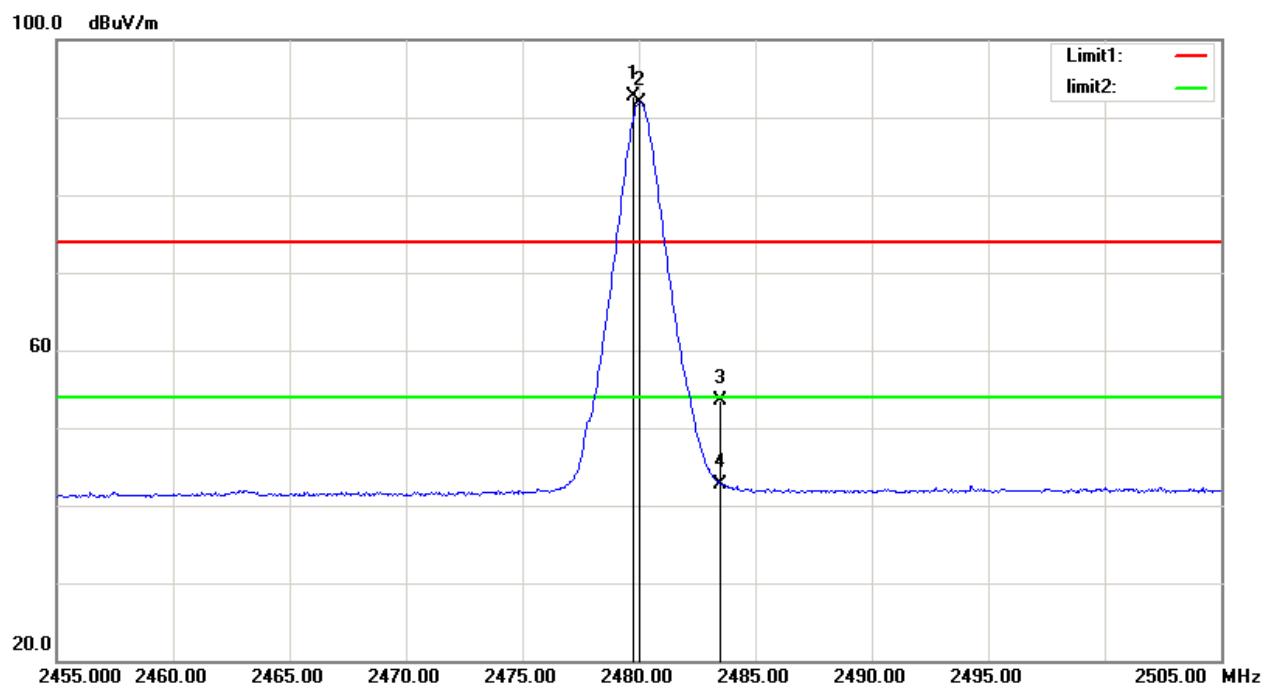
Horizontal



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Antenna | Table | | |
|-----|-----|----------|---------|---------|----------|-------|--------|----------|-------|--------|----------|
| | | | Level | Factor | ment | | | | | | |
| | | MHz | dBuV | dB | dBuV/m | dB/m | dB | Detector | cm | degree | Comment |
| 1 | | 2390.000 | 22.18 | 30.14 | 52.32 | 74.00 | -21.68 | peak | 150 | 250 | |
| 2 | | 2390.000 | 10.43 | 30.14 | 40.57 | 54.00 | -13.43 | AVG | 150 | 250 | |
| 3 | * | 2402.050 | 55.45 | 30.15 | 85.60 | 54.00 | 31.60 | AVG | 150 | 250 | No Limit |
| 4 | X | 2402.500 | 58.95 | 30.15 | 89.10 | 74.00 | 15.10 | peak | 150 | 250 | No Limit |

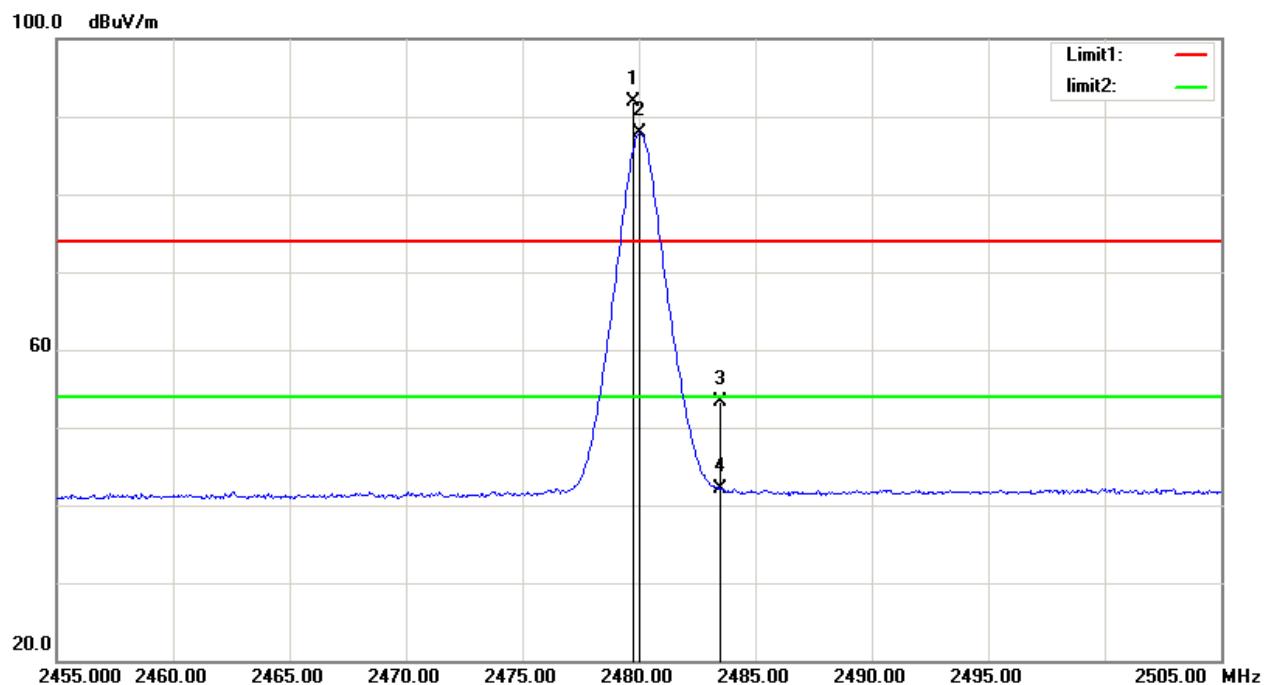
Test Mode: TX 2480 MHz_CH39_1Mbps

Vertical



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Antenna | Table | | |
|-----|-----|----------|---------|---------|----------|-------|--------|----------|-------|--------|----------|
| | | | Level | Factor | ment | | | | | | |
| | | MHz | dBuV | dB | dBuV/m | dB/m | dB | Detector | cm | degree | Comment |
| 1 | X | 2479.750 | 62.05 | 30.67 | 92.72 | 74.00 | 18.72 | peak | 150 | 228 | No Limit |
| 2 | * | 2480.050 | 61.21 | 30.67 | 91.88 | 54.00 | 37.88 | AVG | 150 | 228 | No Limit |
| 3 | | 2483.500 | 22.78 | 30.71 | 53.49 | 74.00 | -20.51 | peak | 150 | 228 | |
| 4 | | 2483.500 | 12.06 | 30.71 | 42.77 | 54.00 | -11.23 | AVG | 150 | 228 | |

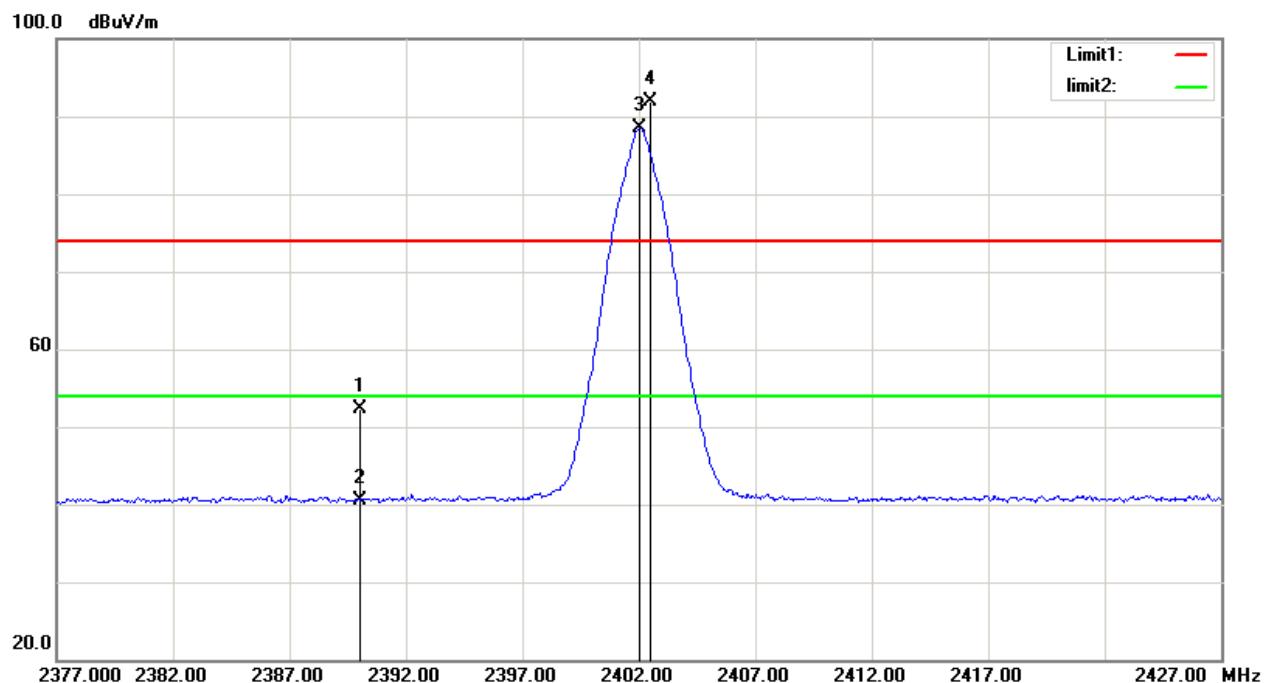
Test Mode: TX 2480 MHz_CH39_1Mbps

Horizontal

| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Antenna | Table | | |
|-----|-----|----------|---------|---------|----------|-------|--------|----------|-------|--------|----------|
| | | | Level | Factor | ment | | | | | | |
| | | MHz | dBuV | dB | dBuV/m | dB/m | dB | Detector | cm | degree | Comment |
| 1 | X | 2479.750 | 61.32 | 30.67 | 91.99 | 74.00 | 17.99 | peak | 150 | 250 | No Limit |
| 2 | * | 2480.050 | 57.14 | 30.67 | 87.81 | 54.00 | 33.81 | AVG | 150 | 250 | No Limit |
| 3 | | 2483.500 | 22.51 | 30.71 | 53.22 | 74.00 | -20.78 | peak | 150 | 250 | |
| 4 | | 2483.500 | 11.32 | 30.71 | 42.03 | 54.00 | -11.97 | AVG | 150 | 250 | |

Test Mode: TX 2402 MHz_CH00_2Mbps

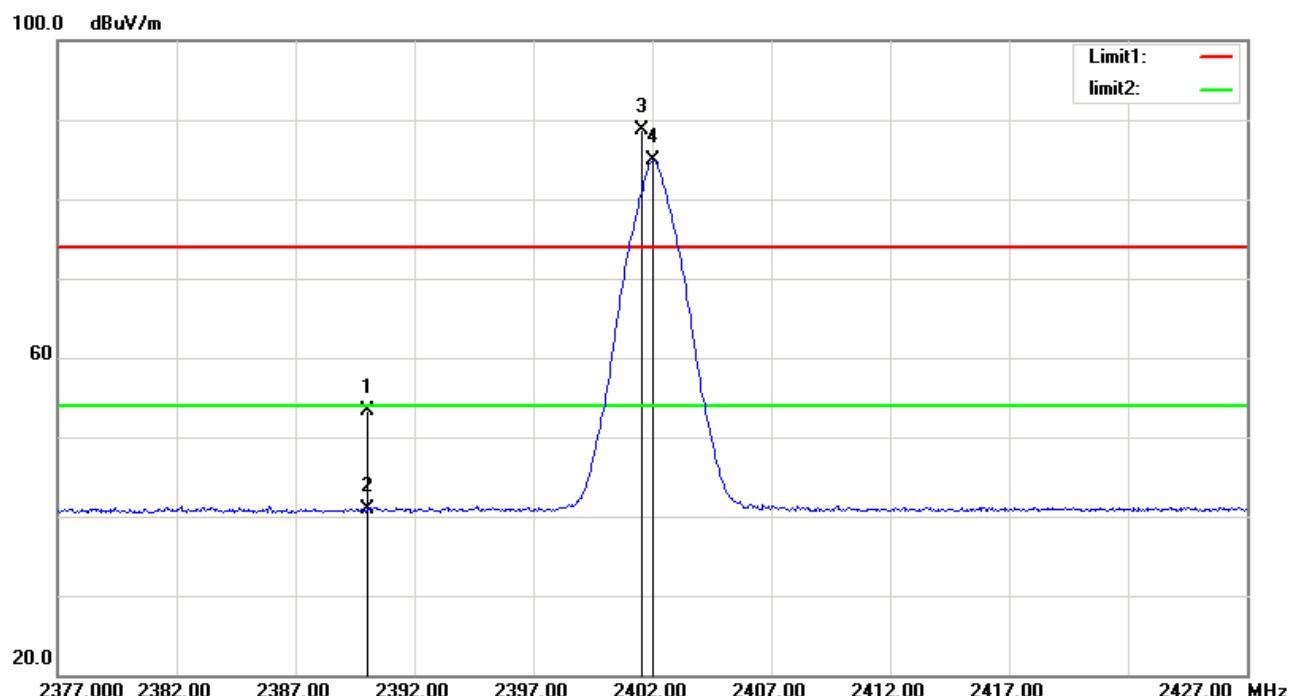
Vertical



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Antenna | Table | Degree | |
|-----|-----|----------|---------|---------|----------|-------|--------|----------|-------|--------|----------|
| | | | Level | Factor | ment | | | | | | |
| | | MHz | dBuV | dB | dBuV/m | dB/m | dB | Detector | cm | degree | Comment |
| 1 | | 2390.000 | 22.17 | 30.14 | 52.31 | 74.00 | -21.69 | peak | 150 | 229 | |
| 2 | | 2390.000 | 10.31 | 30.14 | 40.45 | 54.00 | -13.55 | AVG | 150 | 229 | |
| 3 | * | 2402.050 | 58.33 | 30.15 | 88.48 | 54.00 | 34.48 | AVG | 150 | 229 | No Limit |
| 4 | X | 2402.500 | 61.78 | 30.15 | 91.93 | 74.00 | 17.93 | peak | 150 | 229 | No Limit |

Test Mode: TX 2402 MHz_CH00_2Mbps

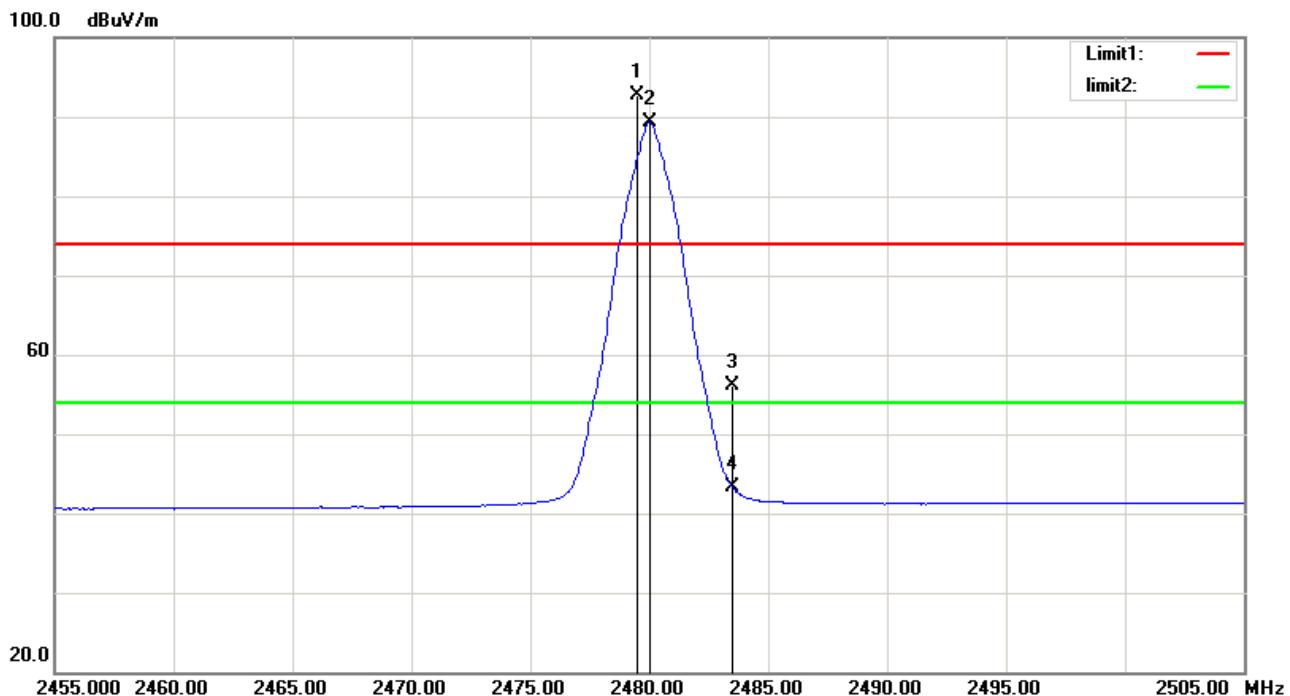
Horizontal



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Antenna | Table | Degree |
|-----|-----|----------|---------|---------|----------|-------|--------|---------|-------|----------|
| | | | Level | Factor | ment | | | | | |
| 1 | | 2390.000 | 23.09 | 30.14 | 53.23 | 74.00 | -20.77 | peak | 150 | 259 |
| 2 | | 2390.000 | 10.69 | 30.14 | 40.83 | 54.00 | -13.17 | AVG | 150 | 259 |
| 3 | X | 2401.600 | 58.51 | 30.15 | 88.66 | 74.00 | 14.66 | peak | 150 | 259 |
| 4 | * | 2402.050 | 54.76 | 30.15 | 84.91 | 54.00 | 30.91 | AVG | 150 | No Limit |

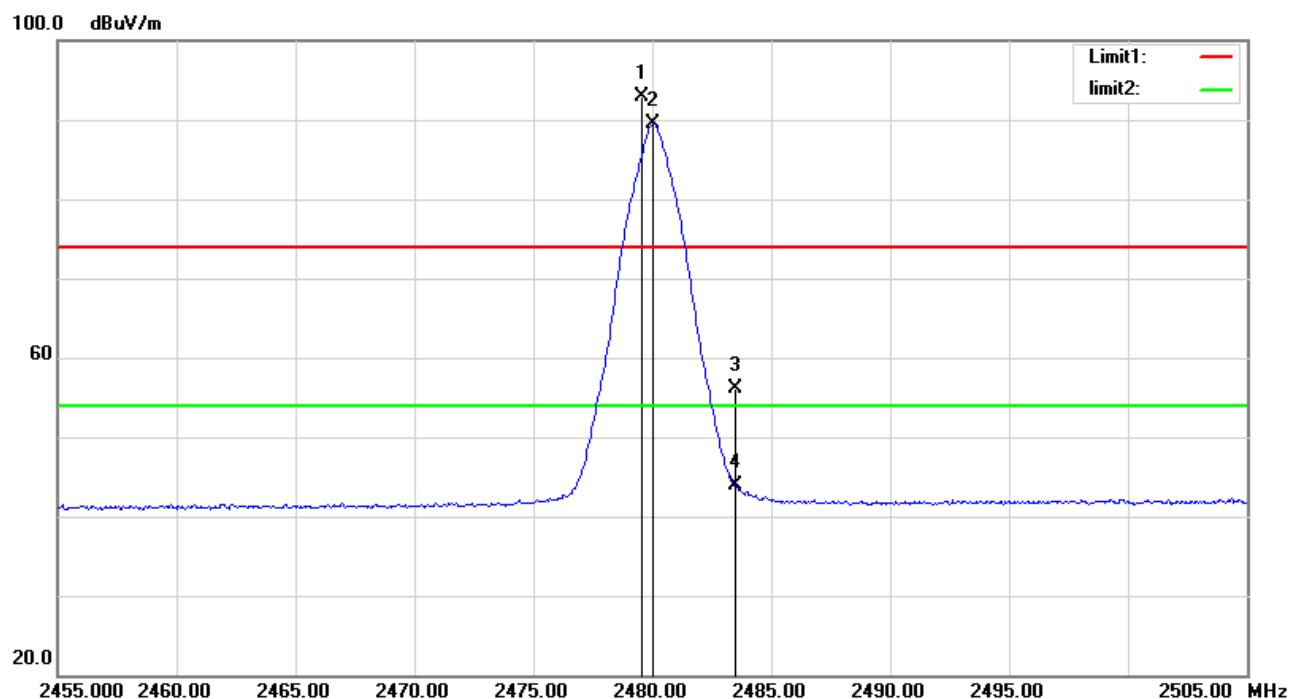
Test Mode: TX 2480 MHz_CH39_2Mbps

Vertical



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Antenna | Table | | |
|-----|-----|----------|---------|---------|----------|-------|--------|----------|-------|--------|----------|
| | | | Level | Factor | ment | | | | | | |
| | | MHz | dBuV | dB | dBuV/m | dB/m | dB | Detector | cm | degree | Comment |
| 1 | X | 2479.500 | 62.09 | 30.66 | 92.75 | 74.00 | 18.75 | peak | 150 | 238 | No Limit |
| 2 | * | 2480.000 | 58.57 | 30.67 | 89.24 | 54.00 | 35.24 | AVG | 150 | 238 | No Limit |
| 3 | | 2483.500 | 25.43 | 30.71 | 56.14 | 74.00 | -17.86 | peak | 150 | 238 | |
| 4 | | 2483.500 | 12.53 | 30.71 | 43.24 | 54.00 | -10.76 | AVG | 150 | 238 | |

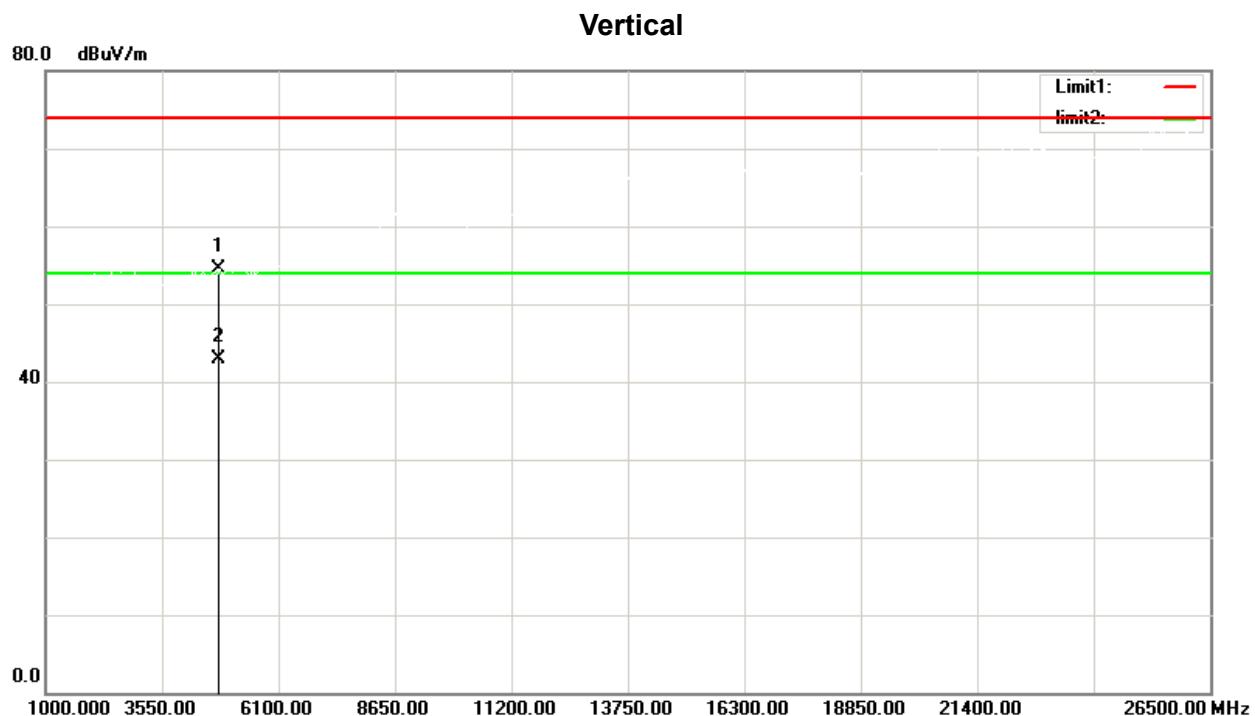
Test Mode: TX 2480 MHz_CH39_2Mbps

Horizontal

| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Antenna | Table | Degree | |
|-----|-----|----------|---------|---------|----------|-------|--------|----------|-------|--------|----------|
| | | | Level | Factor | ment | | | | | | |
| | | MHz | dBuV | dB | dBuV/m | dB/m | dB | Detector | cm | degree | Comment |
| 1 | X | 2479.550 | 62.31 | 30.66 | 92.97 | 74.00 | 18.97 | peak | 150 | 259 | No Limit |
| 2 | * | 2480.050 | 58.85 | 30.67 | 89.52 | 54.00 | 35.52 | AVG | 150 | 259 | No Limit |
| 3 | | 2483.500 | 25.48 | 30.71 | 56.19 | 74.00 | -17.81 | peak | 150 | 259 | |
| 4 | | 2483.500 | 13.17 | 30.71 | 43.88 | 54.00 | -10.12 | AVG | 150 | 259 | |

5.9 TEST RESULTS - ABOVE 1000MHz (HARMONIC)

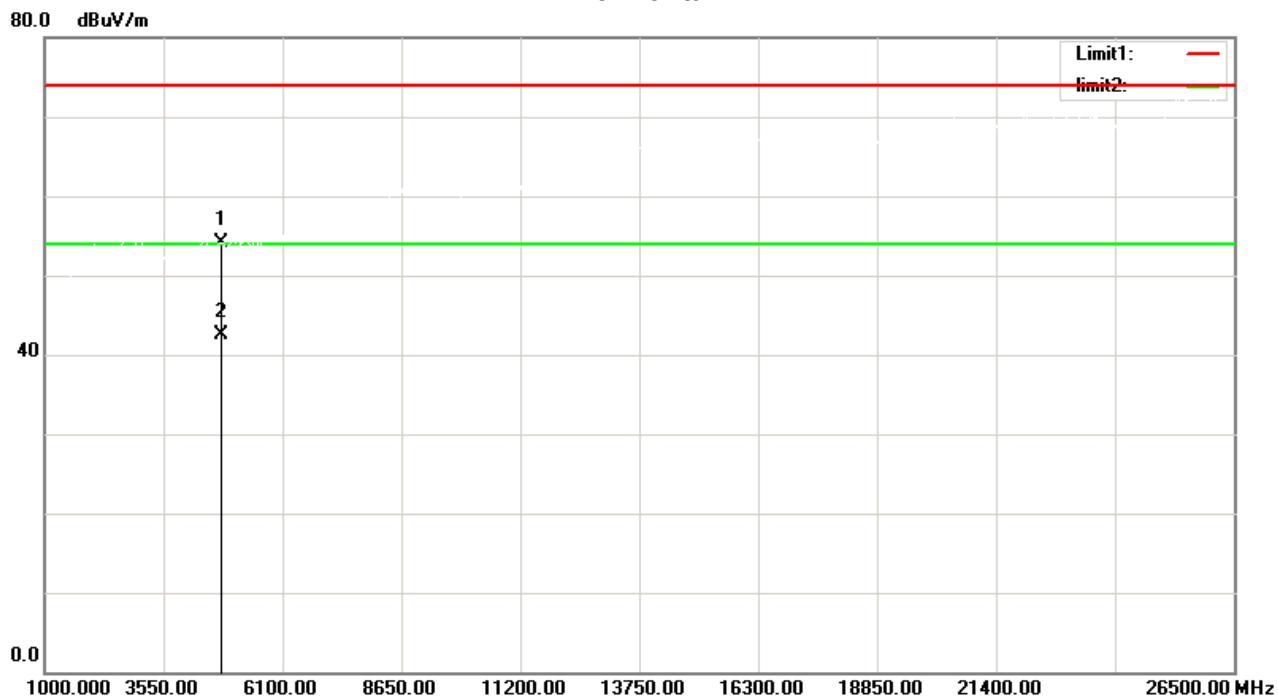
Test Mode: TX 2402 MHz_CH00_1Mbps



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Antenna | Table | | |
|-----|-----|----------|---------|---------|----------|-------|--------|----------|-------|--------|---------|
| | | | Level | Factor | ment | | | | | | |
| | | MHz | dBuV | dB | dBuV/m | dB/m | dB | Detector | cm | degree | Comment |
| 1 | | 4804.000 | 56.41 | -1.90 | 54.51 | 74.00 | -19.49 | peak | 150 | 148 | |
| 2 | * | 4804.000 | 44.87 | -1.90 | 42.97 | 54.00 | -11.03 | AVG | 150 | 148 | |

Test Mode: TX 2402 MHz_CH00_1Mbps

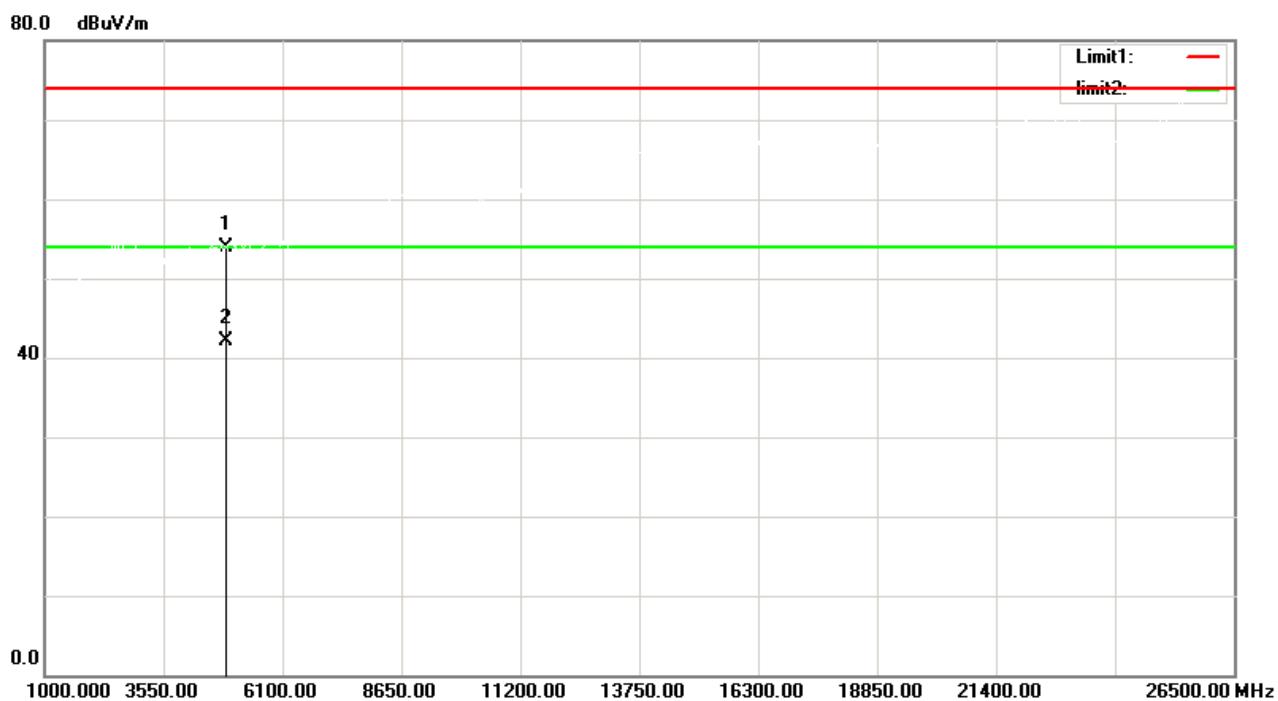
Horizontal



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Antenna | Table | | |
|-----|-----|----------|---------|---------|----------|-------|--------|----------|-------|--------|---------|
| | | | Level | Factor | ment | | | | | | |
| | | MHz | dBuV | dB | dBuV/m | dB/m | dB | Detector | cm | degree | Comment |
| 1 | | 4804.000 | 55.99 | -1.90 | 54.09 | 74.00 | -19.91 | peak | 150 | 33 | |
| 2 | * | 4804.000 | 44.47 | -1.90 | 42.57 | 54.00 | -11.43 | AVG | 150 | 33 | |

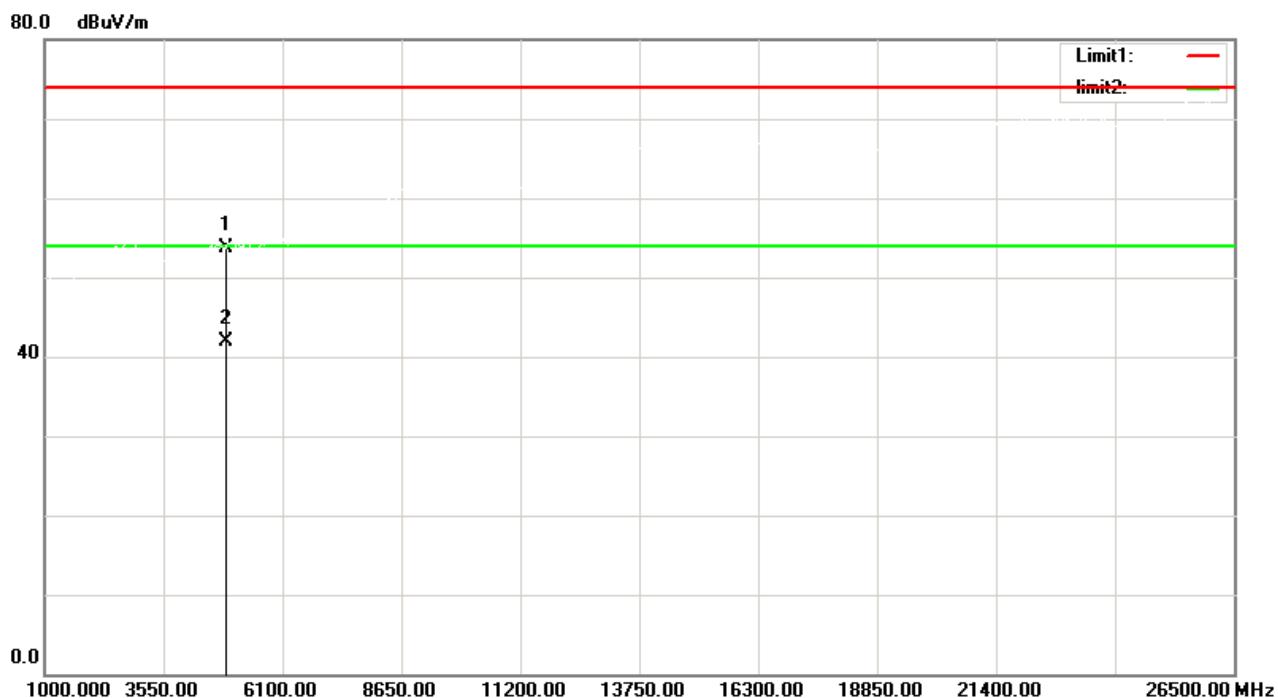
Test Mode: TX 2440 MHz_CH19_1Mbps

Vertical



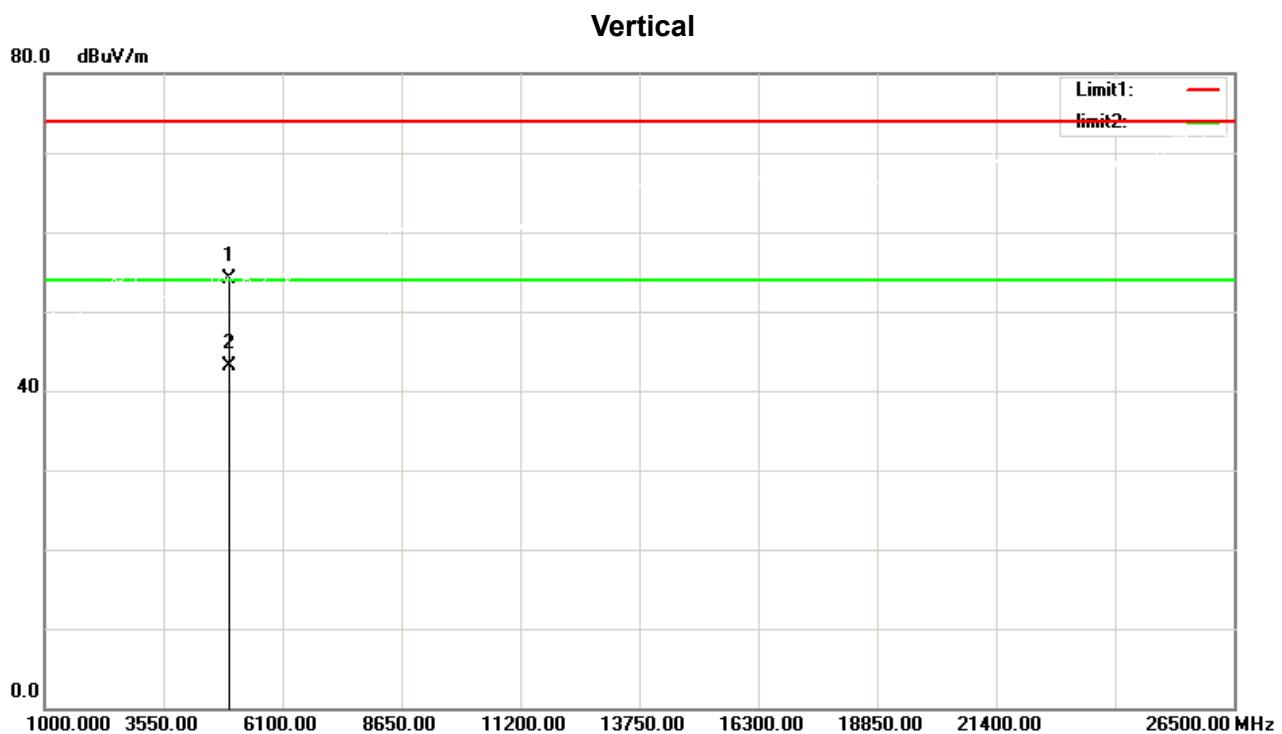
| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Antenna | Table | | |
|-----|-----|----------|---------|---------|----------|-------|--------|----------|-------|--------|---------|
| | | | Level | Factor | ment | | | | | Degree | |
| | | MHz | dBuV | dB | dBuV/m | dB/m | dB | Detector | cm | degree | Comment |
| 1 | | 4880.000 | 56.04 | -2.18 | 53.86 | 74.00 | -20.14 | peak | 150 | 38 | |
| 2 | * | 4880.000 | 44.33 | -2.18 | 42.15 | 54.00 | -11.85 | AVG | 150 | 38 | |

Test Mode: TX 2440 MHz_CH19_1Mbps

Horizontal

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | Antenna Height | Table Degree | Comment |
|-----|-----|----------|---------------|----------------|--------------|-------|--------|----------------|--------------|---------|
| | | MHz | dBuV | dB | dBuV/m | dB/m | dB | Detector | cm | degree |
| 1 | | 4880.000 | 55.95 | -2.18 | 53.77 | 74.00 | -20.23 | peak | 150 | 198 |
| 2 | * | 4880.000 | 44.03 | -2.18 | 41.85 | 54.00 | -12.15 | AVG | 150 | 198 |

Test Mode: TX 2480 MHz_CH39_1Mbps



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Antenna | Table | | |
|-----|-----|----------|---------|---------|----------|-------|--------|----------|-------|--------|---------|
| | | | Level | Factor | ment | | | | | Degree | |
| | | MHz | dBuV | dB | dBuV/m | dB/m | dB | Detector | cm | degree | Comment |
| 1 | | 4960.000 | 55.90 | -1.76 | 54.14 | 74.00 | -19.86 | peak | 150 | 214 | |
| 2 | * | 4960.000 | 44.92 | -1.76 | 43.16 | 54.00 | -10.84 | AVG | 150 | 214 | |

Test Mode: TX 2480 MHz_CH39_1Mbps

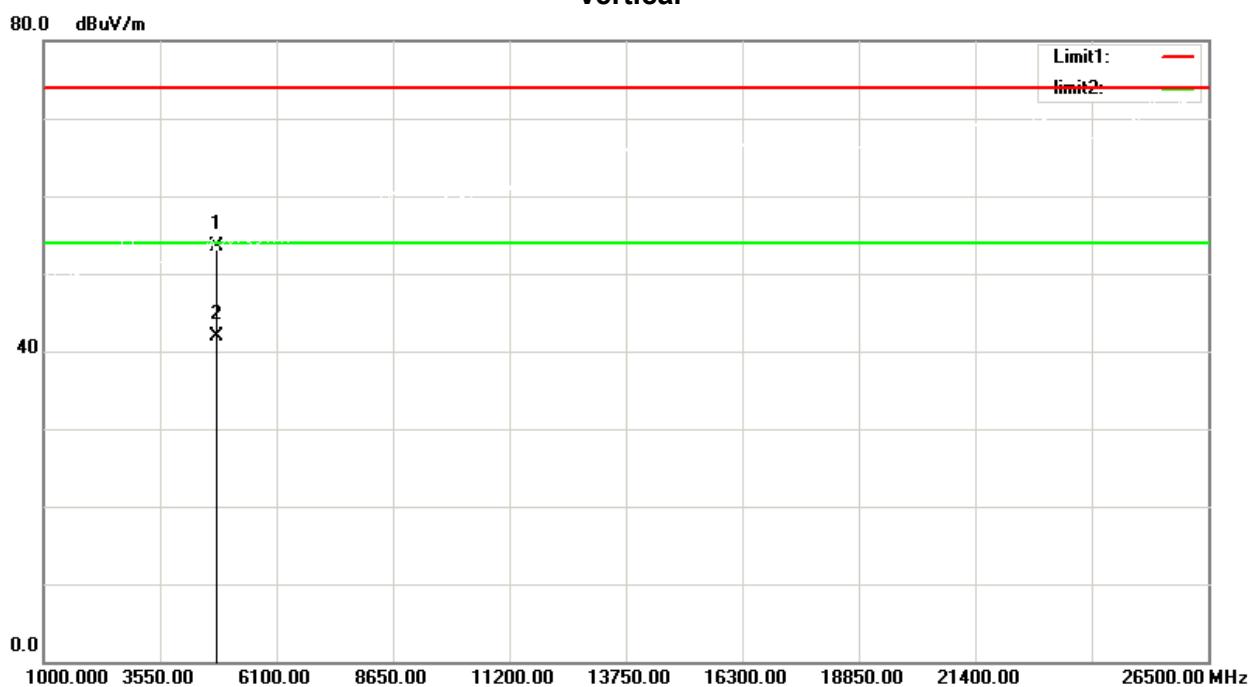
Horizontal



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Antenna | Table | | |
|-----|-----|----------|---------|---------|----------|-------|--------|----------|-------|--------|---------|
| | | | Level | Factor | ment | | | | | | |
| | | MHz | dBuV | dB | dBuV/m | dB/m | dB | Detector | cm | degree | Comment |
| 1 | | 4960.000 | 55.93 | -1.76 | 54.17 | 74.00 | -19.83 | peak | 150 | 126 | |
| 2 | * | 4960.000 | 44.63 | -1.76 | 42.87 | 54.00 | -11.13 | AVG | 150 | 126 | |

Test Mode: TX 2402 MHz_CH00_2Mbps

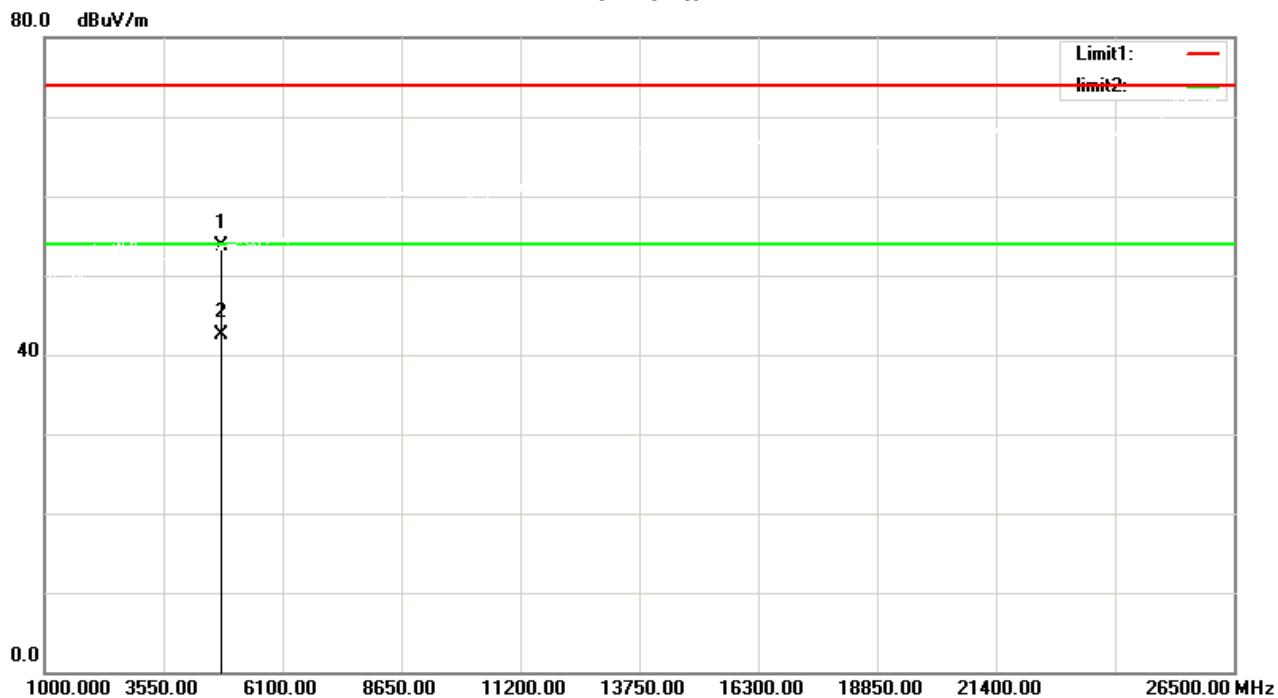
Vertical



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Antenna | Table | | |
|-----|-----|----------|---------|---------|----------|-------|--------|----------|-------|--------|---------|
| | | | Level | Factor | ment | | | | | Degree | |
| | | MHz | dBuV | dB | dBuV/m | dB/m | dB | Detector | cm | degree | Comment |
| 1 | | 4804.000 | 55.42 | -1.90 | 53.52 | 74.00 | -20.48 | peak | 150 | 48 | |
| 2 | * | 4804.000 | 43.86 | -1.90 | 41.96 | 54.00 | -12.04 | AVG | 150 | 48 | |

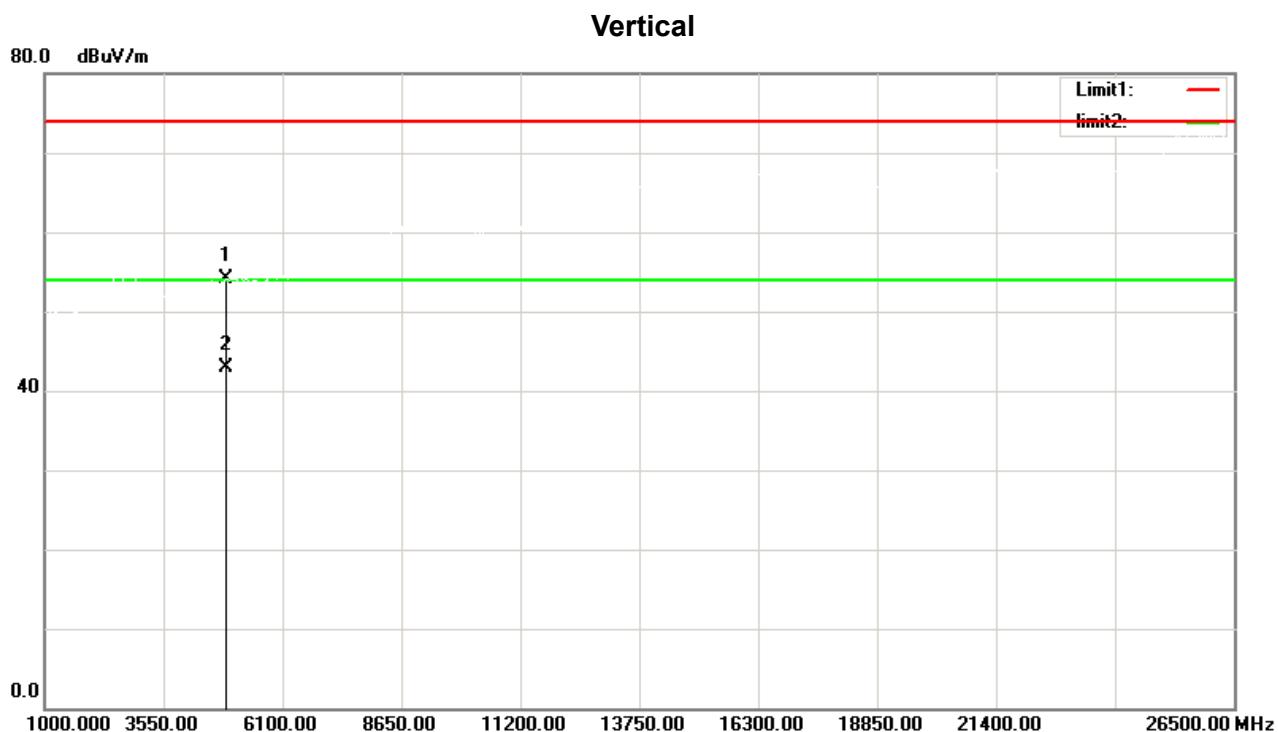
Test Mode: TX 2402 MHz_CH00_2Mbps

Horizontal



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Antenna | Table | | |
|-----|-----|----------|---------|---------|----------|-------|--------|----------|-------|--------|---------|
| | | | Level | Factor | ment | | | | | Degree | |
| | | MHz | dBuV | dB | dBuV/m | dB/m | dB | Detector | cm | degree | Comment |
| 1 | | 4804.000 | 55.64 | -1.90 | 53.74 | 74.00 | -20.26 | peak | 150 | 79 | |
| 2 | * | 4804.000 | 44.46 | -1.90 | 42.56 | 54.00 | -11.44 | AVG | 150 | 79 | |

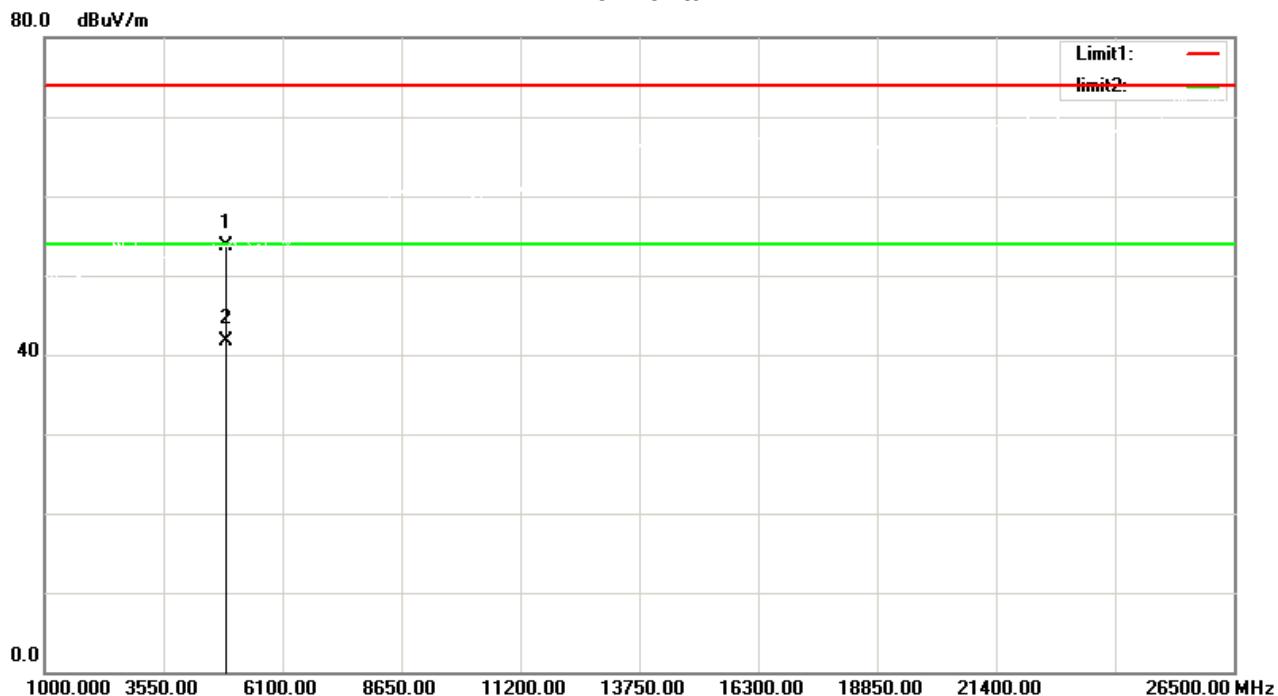
Test Mode: TX 2440 MHz_CH19_2Mbps



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Antenna | Table | | |
|-----|-----|----------|---------|---------|----------|-------|--------|----------|--------|--------|---------|
| | | | Level | Factor | ment | | | | Height | Degree | |
| | | MHz | dBuV | dB | dBuV/m | dB/m | dB | Detector | cm | degree | Comment |
| 1 | | 4880.000 | 56.28 | -2.18 | 54.10 | 74.00 | -19.90 | peak | 150 | 2 | |
| 2 | * | 4880.000 | 45.05 | -2.18 | 42.87 | 54.00 | -11.13 | AVG | 150 | 2 | |

Test Mode: TX 2440 MHz_CH19_2Mbps

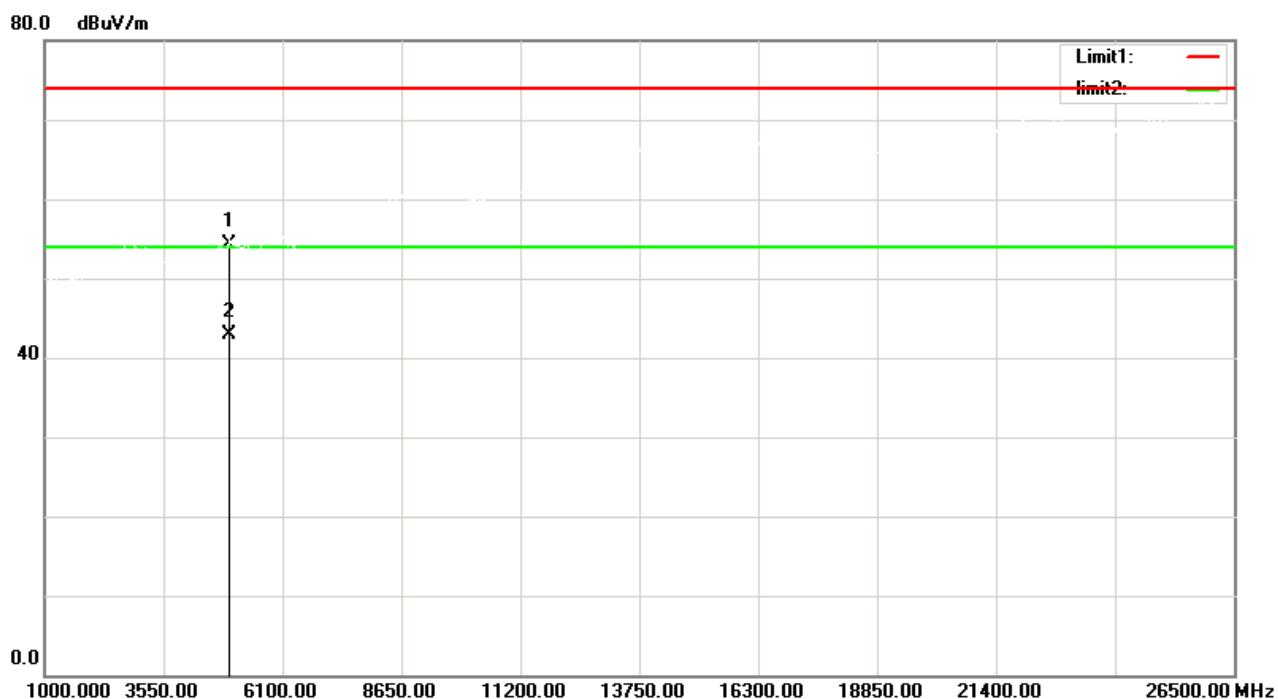
Horizontal



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | Antenna Height | Table Degree | Comment |
|-----|-----|----------|---------------|----------------|------------------|-------|--------|----------------|--------------|---------|
| | | MHz | dBuV | dB | dBuV/m | dB/m | dB | Detector | cm | degree |
| 1 | | 4880.000 | 55.79 | -2.18 | 53.61 | 74.00 | -20.39 | peak | 150 | 96 |
| 2 | * | 4880.000 | 43.89 | -2.18 | 41.71 | 54.00 | -12.29 | AVG | 150 | 96 |

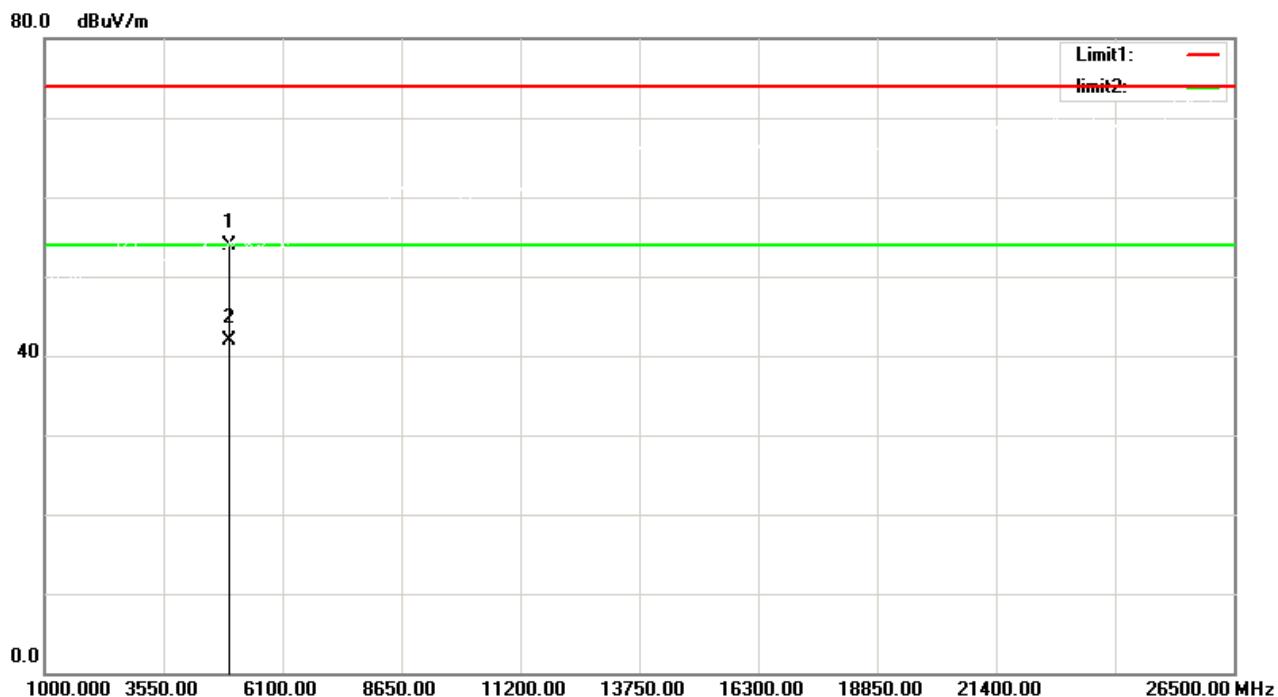
Test Mode: TX 2480 MHz_CH39_2Mbps

Vertical



| No. | Mk. | Freq. | Reading | Correct | Measure- | Over | Antenna | | Table | | |
|-----|-----|----------|---------|---------|----------|-------|---------|----------|---------|--------|---------|
| | | | Level | Factor | ment | | Height | Degree | Comment | | |
| | | MHz | dBuV | dB | dBuV/m | dB/m | dB | Detector | cm | degree | Comment |
| 1 | | 4960.000 | 55.98 | -1.76 | 54.22 | 74.00 | -19.78 | peak | 150 | 54 | |
| 2 | * | 4960.000 | 44.74 | -1.76 | 42.98 | 54.00 | -11.02 | AVG | 150 | 54 | |

Test Mode: TX 2480 MHz_CH39_2Mbps

Horizontal

| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Antenna | Table | | |
|-----|-----|----------|---------|---------|----------|-------|--------|----------|-------|--------|---------|
| | | | Level | Factor | ment | | | | | | |
| | | MHz | dBuV | dB | dBuV/m | dB/m | dB | Detector | cm | degree | Comment |
| 1 | | 4960.000 | 55.72 | -1.76 | 53.96 | 74.00 | -20.04 | peak | 150 | 21 | |
| 2 | * | 4960.000 | 43.63 | -1.76 | 41.87 | 54.00 | -12.13 | AVG | 150 | 21 | |

6 BANDWIDTH TEST

6.1 LIMIT

| FCC Part15, Subpart C (15.247)& RSS-Gen/ RSS-247 | | |
|--|-----------|-------------------------------|
| Section | Test Item | Limit |
| 15.247(a)(2) RSS-Gen6.7 RSS-247 5.2 (a) | Bandwidth | >= 500 kHz (6dB bandwidth) |

6.2 TEST PROCEDURE AND SETTING

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting:
For 6dB Bandwidth RBW= 100 kHz, VBW=300 kHz, Sweep time =Auto.
For 99% Bandwidth RBW=30kHz, VBW=100kHz, Sweep time =Auto for 1Mbps.
RBW=100kHz, VBW=300kHz, Sweep time =Auto for 2Mbps.

6.3 MEASUREMENT INSTRUMENTS LIST

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|-------------------|---------------|-------------|------------|------------------|
| 1 | Spectrum analyzer | KEYSIGHT | N9010A | MY55150427 | 2026/05/15 |
| 2 | Attenuator | Mini-Circuits | BW-S10W2 | 101109 | N/A |
| 3 | RF Cable | Mi-cable | C10-01-01-1 | 100309 | N/A |

6.4 TEST SETUP

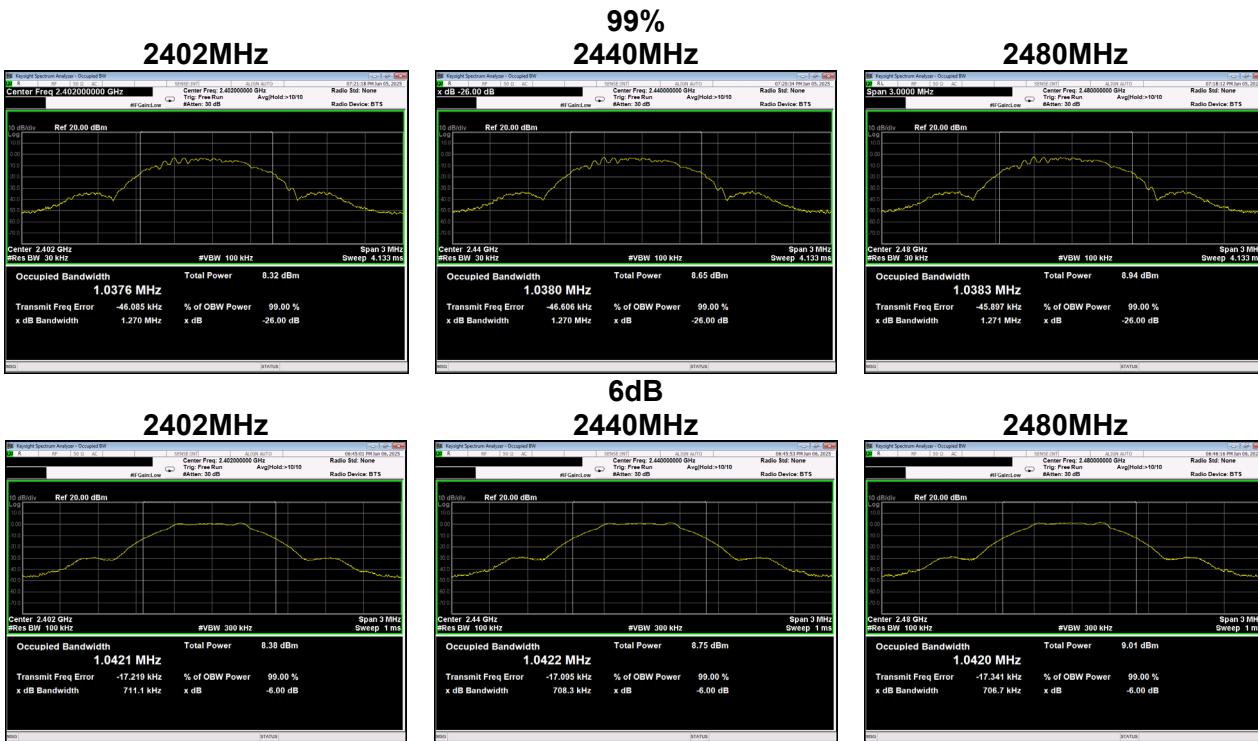


6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.5 unless otherwise a special operating condition is specified in the follows during the testing.

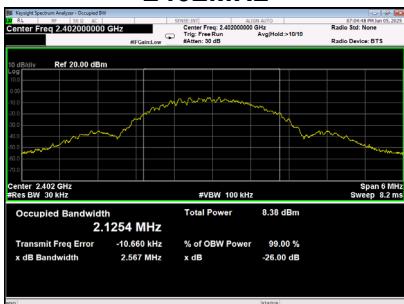
6.6 TESTRESULTS

| TX Mode 1Mbps | | | | |
|---------------|-----------------|----------------------|--------------|--------|
| Channel | Frequency (MHz) | 6 dB bandwidth (MHz) | 99%OBW (MHz) | Result |
| CH00 | 2402 | 0.711 | 1.0376 | PASS |
| CH19 | 2440 | 0.708 | 1.0380 | PASS |
| CH39 | 2480 | 0.706 | 1.0383 | PASS |



TX Mode 2Mbps

| Channel | Frequency (MHz) | 6 dB bandwidth (MHz) | 99%OBW (MHz) | Result |
|---------|-----------------|----------------------|--------------|--------|
| CH00 | 2402 | 1.354 | 2.1254 | PASS |
| CH19 | 2440 | 1.356 | 2.1303 | PASS |
| CH39 | 2480 | 1.355 | 2.1349 | PASS |

2402MHz**2440MHz****2480MHz****2402MHz****6dB**
2440MHz**2480MHz**

7 MAXIMUM OUTPUT POWER

7.1 LIMIT

| FCC Part15, Subpart C (15.247)&RSS-247 | | |
|--|----------------------|-----------------|
| Section | Test Item | Limit |
| 15.247(b)(3) RSS-2475.4 (d) | Maximum Output Power | 1 watt or 30dBm |

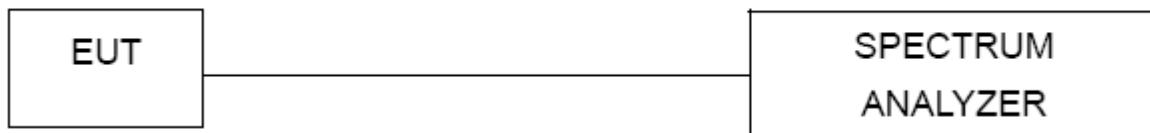
7.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- The maximum conducted output power was performed in accordance with method 11.9.1.3(for peak power)ofANSI C63.10-2013.

7.3 MEASUREMENT INSTRUMENTS LIST

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|-------------------|---------------|-------------|------------|------------------|
| 1 | Spectrum analyzer | KEYSIGHT | N9010A | MY55150427 | 2026/05/15 |
| 2 | Attenuator | Mini-Circuits | BW-S10W2 | 101109 | N/A |
| 3 | RF Cable | Mi-cable | C10-01-01-1 | 100309 | N/A |

7.4 TEST SETUP



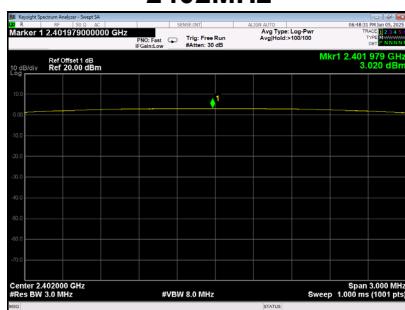
7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.5 unless otherwise a special operating condition is specified in the follows during the testing.

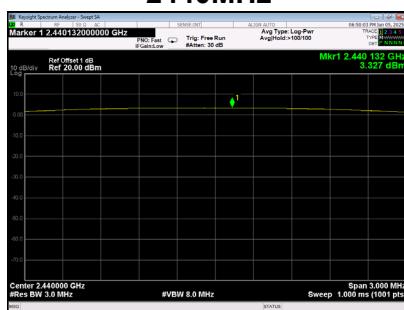
7.6 TEST RESULTS

| TX Mode_1Mbps | | | | | | |
|---------------|-----------|--------------|-------|----------|-------|---------|
| Gain | 0.44dBi | | | | | |
| Channel | Frequency | Output Power | EIRP | | Limit | Verdict |
| | (MHz) | (dBm) | (dBm) | (W) | (W) | |
| CH00 | 2402 | 3.020 | 3.460 | 0.002218 | 1.0 | PASS |
| CH19 | 2440 | 3.327 | 3.767 | 0.002381 | 1.0 | PASS |
| CH39 | 2480 | 3.577 | 4.017 | 0.002522 | 1.0 | PASS |

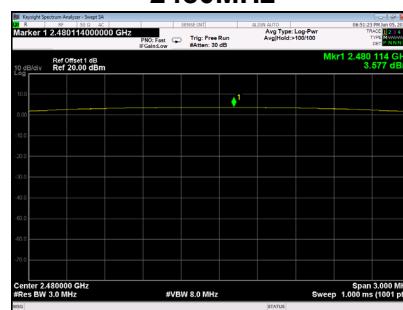
2402MHz



2440MHz



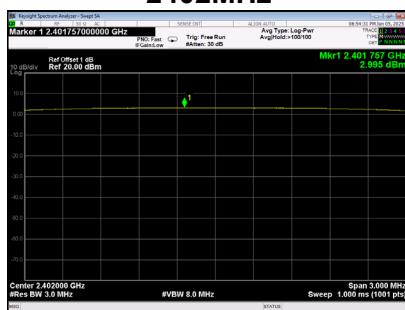
2480MHz



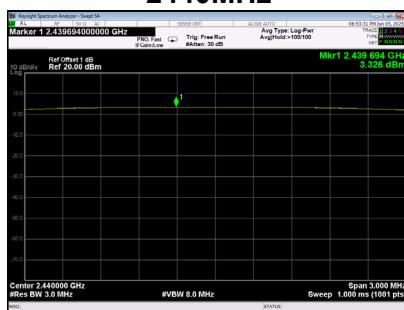
TX Mode_2Mbps

| Gain | 0.44dBi | | | | | |
|---------|-----------|--------------|-------|----------|-------|---------|
| Channel | Frequency | Output Power | EIRP | | Limit | Verdict |
| | (MHz) | (dBm) | (dBm) | (W) | (W) | |
| CH00 | 2402 | 2.995 | 3.435 | 0.002205 | 1.0 | PASS |
| CH19 | 2440 | 3.326 | 3.766 | 0.002380 | 1.0 | PASS |
| CH39 | 2480 | 3.598 | 4.038 | 0.002534 | 1.0 | PASS |

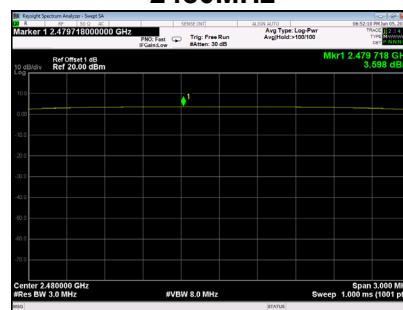
2402MHz



2440MHz



2480MHz



8 CONDUCTED SPURIOUS EMISSION

8.1 LIMIT

For FCC

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.

For ISED

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak Output Power limits. If the transmitter complies with the Output Power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB.

Attenuation below the general field strength limits specified in RSS-Gen is not required.

8.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting : RBW= 100 kHz, VBW=300 kHz, Sweep time = Auto.

8.3 MEASUREMENT INSTRUMENTS LIST

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|-------------------|---------------|-------------|------------|------------------|
| 1 | Spectrum analyzer | KEYSIGHT | N9010A | MY55150427 | 2026/05/15 |
| 2 | Attenuator | Mini-Circuits | BW-S10W2 | 101109 | N/A |
| 3 | RF Cable | Mi-cable | C10-01-01-1 | 100309 | N/A |

8.4 TEST SETUP



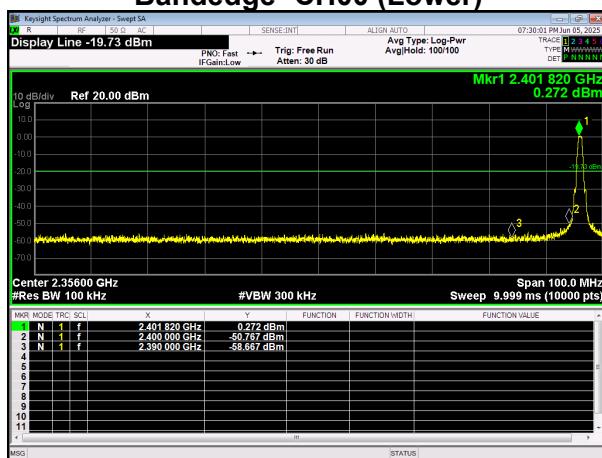
8.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.5unless otherwise a special operating condition is specified in the follows during the testing.

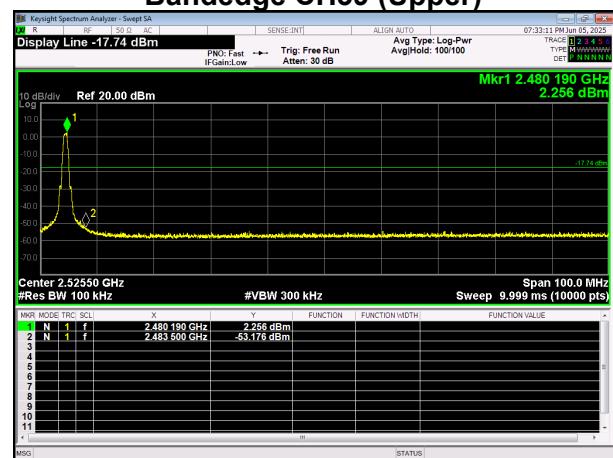
8.6 TEST RESULTS

TX Mode_1Mbps

Bandedge- CH00 (Lower)



Bandedge CH39 (Upper)

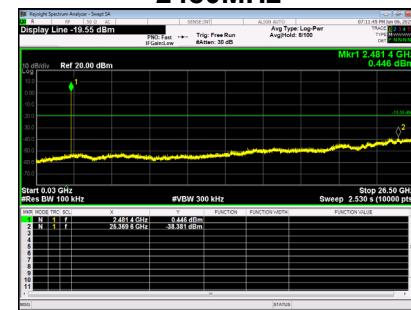
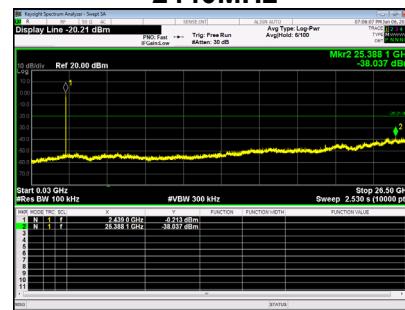
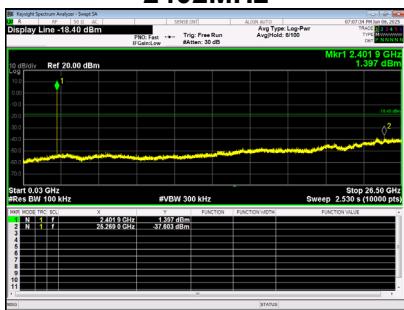


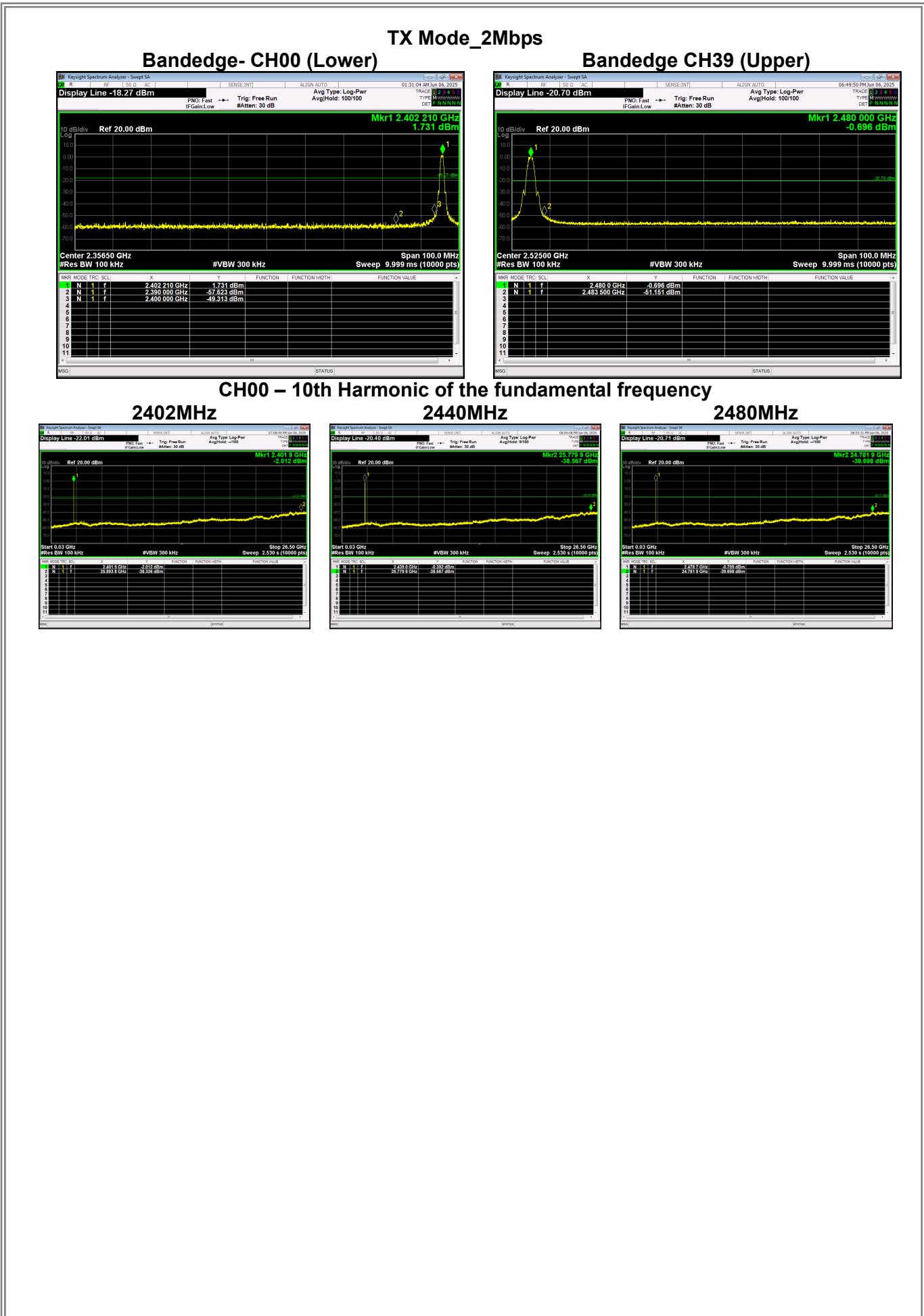
CH00 – 10th Harmonic of the fundamental frequency

2402MHz

2440MHz

2480MHz





9 POWER SPECTRAL DENSITY TEST

9.1 LIMIT

| FCC Part15, Subpart C (15.247)&RSS-247 | | |
|--|------------------------|-------------------------|
| Section | Test Item | Limit |
| 15.247(e) RSS-2475.2 (b) | Power Spectral Density | 8 dBm (in any 3 kHz) |

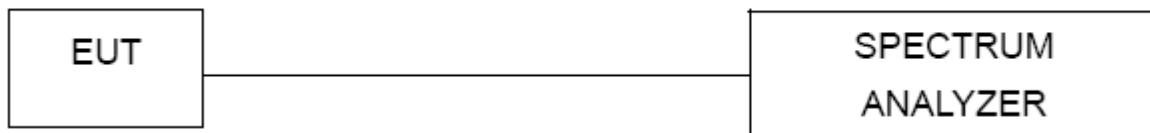
9.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting: RBW=3 kHz, VBW=10kHz, Sweep time = auto.

9.3 MEASUREMENT INSTRUMENTS LIST

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|-------------------|---------------|-------------|------------|------------------|
| 1 | Spectrum analyzer | KEYSIGHT | N9010A | MY55150427 | 2026/05/15 |
| 2 | Attenuator | Mini-Circuits | BW-S10W2 | 101109 | N/A |
| 3 | RF Cable | Mi-cable | C10-01-01-1 | 100309 | N/A |

9.4 TEST SETUP



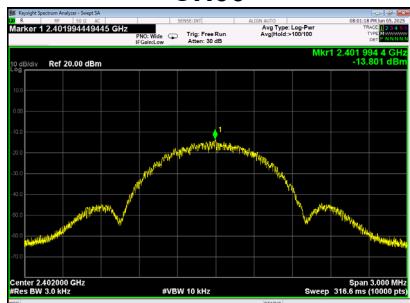
9.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

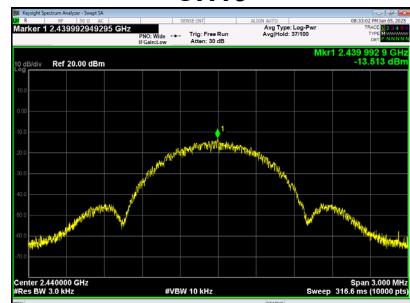
9.6 TEST RESULTS

| TX Mode_1Mbps | | | | |
|---------------|-----------------|------------------------------------|------------------|--------|
| Channel | Frequency (MHz) | Power Spectral Density (dBm/3 kHz) | Limit: <dBm/3kHz | Result |
| CH00 | 2402 | -13.801 | 8 | PASS |
| CH19 | 2440 | -13.513 | 8 | PASS |
| CH39 | 2480 | -13.198 | 8 | PASS |

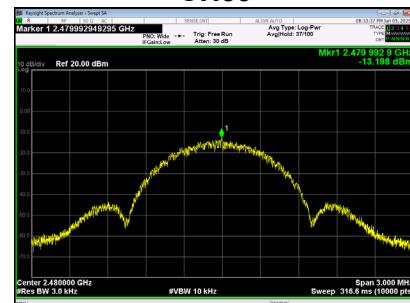
CH00



CH19



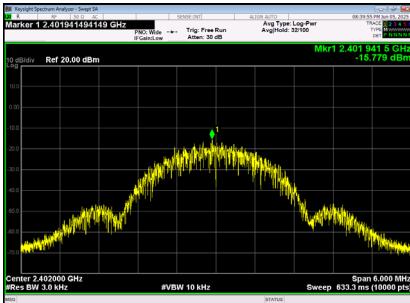
CH39



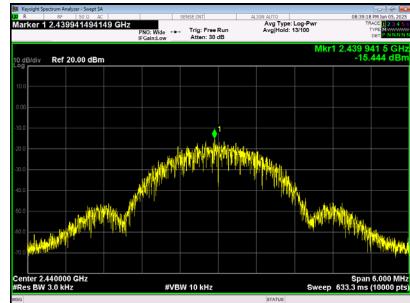
TX Mode_2Mbps

| Channel | Frequency (MHz) | Power Spectral Density (dBm/3 kHz) | Limit: <dBm/3kHz | Result |
|---------|-----------------|------------------------------------|------------------|--------|
| CH00 | 2402 | -15.779 | 8 | PASS |
| CH19 | 2440 | -15.444 | 8 | PASS |
| CH39 | 2480 | -16.859 | 8 | PASS |

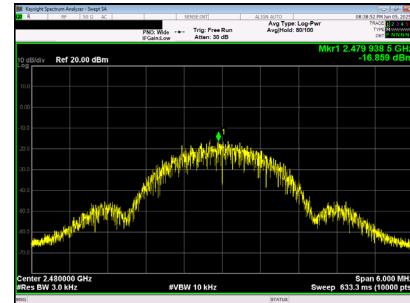
CH00



CH19



CH39



10 FREQUENCY STABILITY MEASUREMENT

10.1 LIMIT

| RSS-Gen | | | |
|--------------|---------------------|--------------------------------|-----------------------|
| Section | Test Item | Limit | Frequency Range (MHz) |
| RSS-Gen 6.11 | Frequency Stability | Specified in the user's manual | 2402-2480 |

10.2 TEST PROCEDURE

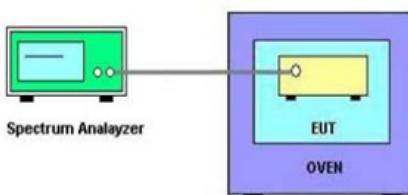
- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting:

| Spectrum Parameter | Setting |
|--------------------|--|
| Attenuation | Auto |
| Span Frequency | Entire absence of modulationemissionsbandwidth |
| RBW | 10 kHz |
| VBW | 10kHz |
| Sweep Time | Auto |

10.3 MEASUREMENT INSTRUMENTS LIST

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|--------------------------|-------------------|-------------|---------------|------------------|
| 1 | Spectrum analyzer | KEYSIGHT | N9010A | MY55150427 | 2026/05/15 |
| 2 | Attenuator | Mini-Circuits | BW-S10W2 | 101109 | N/A |
| 3 | RF Cable | Mi-cable | C10-01-01-1 | 100309 | N/A |
| 4 | Temperature conditioning | Guan Jian.HTH1000 | -20-130°C | GJ1000-10D001 | N/A |
| 5 | DC Power Supply | G.KE | IPR-10010D | 010931954 | N/A |

10.4 TEST SETUP



10.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

10.6 TEST RESULTS

| Temperature vs. Frequency Stability | | |
|-------------------------------------|-------------|-----------------------------|
| Voltage | Temperature | Measurement Frequency (MHz) |
| 120Vac | (°C) | 2480 |
| | -20 | 2479.9794 |
| | +20 | 2479.9794 |
| | +50 | 2479.9794 |
| 81Vac | +20 | 2479.9794 |
| Max. Deviation (MHz) | | -0.0206 |
| Max. Deviation (ppm) | | -8.306 |

Note: 81Vac is the end point voltage, and products below 81Vac will cease working.

END OF TEST REPORT