

Produkte  
 Products

|  |   |   |  |
|--|---|---|--|
| <b>Prüfbericht - Nr.:</b> 19660187 001   |   | Seite 1 von 28                            |  |
| Test Report No.:   |   | Page 1 of 28                              |  |
| <b>Auftraggeber:</b><br>Client:  | American Megatrends India Private Limited<br>Kumaran Nagar,<br>Off Old Mahabalipuram Road<br>Semmanchery,<br>Chennai-600119, India                                  |   |  |
| <b>Gegenstand der Prüfung:</b><br>Test item:   | Wireless Spirometer   |   |  |
| <b>Bezeichnung:</b><br>Identification:   | VA08  | <b>Serien-Nr.:</b><br>Serial No.          | Engineering Sample   |
| <b>Wareneingangs-Nr.:</b><br>Receipt No.:  | 1803095548  | <b>Eingangsdatum:</b><br>Date of receipt: | 26.08.2015   |
| <b>Prüfart:</b><br>Testing location:   | Refer Page 4 of 28 for test facilities  |   |  |
| <b>Prüfgrundlage:</b><br>Test specification:   | FCC Part 15: Subpart C Section 15.247<br>ANSI C63.10-2013   |   |  |
| <b>Prüfresultat:</b><br>Test Result:   | Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n).<br>The test items passed the test specification(s).  |   |  |
| <b>Prüflaboratorium:</b><br>Testing Laboratory:  | TÜV Rheinland (India) Pvt. Ltd.<br>82/A, 3rd Main, West Wing, Electronic City Phase 1<br>Hosur Road, Bangalore – 560 100. India<br><br>FCC Registration No.: 176555 |   |  |
| <b>geprüft / tested by:</b>  |   | <b>kontrolliert / reviewed by:</b>        |  |
| 23.09.2015   | Girish Kumar.G<br>Test Engineer   | 29.09.2015                                | Raghavendra Kulkarni<br>Sr. Manager  |
| <u>Datum</u><br>Date   | <u>Name/Stellung</u><br>Name/Position   | <u>Unterschrift</u><br>Signature          | <u>Unterschrift</u><br>Signature   |
| <b>Sonstiges / Other Aspects:</b> FCC ID : 2AFV6-AMI-SPIRO-01  |   |   |  |
| <b>Abkürzungen:</b>  | P(ass) = entspricht Prüfgrundlage<br>F(ail) = entspricht nicht Prüfgrundlage<br>N/A = nicht anwendbar<br>N/T = nicht getestet                                       | <b>Abbreviations:</b>                     | P(ass) = passed<br>F(ail) = failed<br>N/A = not applicable<br>N/T = not tested |
| <p><b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b></p> <p><i>This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.</i></p> |   |   |  |

 TÜV Rheinland India Pvt. Ltd. 82/A, 3rd Main, West Wing Electronic City Phase 1, Hosur Road, Bangalore-560100, India  
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**Test Result Summary**

| <b>Clause</b>           | <b>Test Item</b>  | <b>Result</b> |
|-------------------------|---|---------------|
| FCC 15.203 and 15.204   | Antenna Requirement   | Pass          |
| FCC 15.247(b) (3)       | Maximum Peak Conducted Output Power                           | Pass          |
| FCC 15.247(a) (2)       | DTS Bandwidth   | Pass          |
| FCC 15.247(e)           | Maximum Power Spectral Density                                | Pass          |
| FCC 15.247(d)           | Emissions in non-restricted frequency bands                   | Pass          |
| FCC 15.209 / FCC 15.205 | Spurious Radiated Emissions and Restricted Bands of Operation | Pass          |
| FCC 15.207              | Conducted emission test on a.c Power line                     | Pass          |

**Note:** Conducted measurements are done according to the procedure given in KDB No. **558074 D01 DTS Meas Guidance v03r02**

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## List of Test and Measurement Instruments

### Testing Facilities

- 1) TÜV Rheinland (India) Pvt. Ltd.  
82/A, 3rd Main, West Wing, Electronic City,  
West Phase, Hosur Road  
Bangalore - 560 100.

| Equipment         | Manufacturer         | Model Name | Serial Number | Calibration Due Date | Periodicity | Used for Test Items            |
|-------------------|----------------------|------------|---------------|----------------------|-------------|--------------------------------|
| Spectrum Analyser | Agilent Technologies | E4407B     | US41192772    | 15.04.2016           | Yearly      | Antenna - Port Conducted Tests |

- 2) TUV Rheinland (India) Private Limited  
108 , Beside ISBR Business School,  
Electronic city Phase I  
Bangalore - 560 100.

| Equipment                 | Manufacturer    | Model Name | Serial Number | Calibration Due Date | Periodicity | Used for Test Items                  |
|---------------------------|-----------------|------------|---------------|----------------------|-------------|--------------------------------------|
| EMI Test Receiver         | Rohde & Schwarz | ESU 40     | 100288        | 20.06.2016           | Yearly      | Spurious Radiated Emissions          |
| Broadband Antenna         | Frankonia       | ALX-4000   | ALX-4000-806  | 22.06.2016           | Yearly      |                                      |
| Active Loop Antenna       | Frankonia       | LAX-10     | LAX-10-800    | 22.06.2016           | Yearly      |                                      |
| Broadband Horn Antenna    | Frankonia       | HAX-18     | HAX18-802     | 22.06.2016           | Yearly      |                                      |
| Emission Horn Antenna     | ETS Lindgren    | 116706     | 00107323      | 22.06.2016           | Yearly      |                                      |
| Anechoic Chamber          | Frankonia       | -          | -             | -                    | -           |                                      |
| EMI Test Receiver         | Rohde & Schwarz | ESR7       | 101133        | 19.11.2015           | Yearly      | Conducted Emission on AC power lines |
| Two Line V-Network (LISN) | Rohde & Schwarz | ENV216     | 100022        | 04.09.2016           | Yearly      |                                      |

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## General Product Information

### Product Function and Intended Use

Spirometer device is a portable diagnostic system which can measure/monitor the lung function. This device is used to assess the condition of the lungs by measuring the volume of air inhaled and exhaled. The system consists of the electronics part with enclosure and a disposable turbine where the user blows and sucks air. The device calculates the flow rate and other relevant parameters and sends the data wirelessly to the mobile device. The device is powered by 5V DC through a USB micro connector and also has internal battery for power backup. The data acquired by the device can be used to obtain clinical consultation from the doctor or healthcare practitioners. AMI Spirometer is intended to test lung function and can make spirometry testing to the people of all ages, excluding infants and neonates.

### Ratings and System Details

|                               |  |
|-------------------------------|--|
| Operating Frequency Range     | 2400MHz – 2483.50MHz                   |
| No. of channel                | 40                                     |
| Channel Spacing               | 2MHz                                   |
| Transmitted Power             | -3.89dBm                               |
| Number of antenna             | One                                    |
| Antenna Gain and Antenna type | 0.5dBi and chip antenna                |
| Supply Voltage to Module      | 5V DC from Power Charger               |
| Environmental                 | Operational Temperature: 16°C to 35° C |

### Test Conditions:

Supply Voltage: 5V DC from Power Charger

### Environmental conditions:

Temperature: +24.6 ° C      RH: 56%

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## **Test Set-up and Operation Mode**

### **Principle of Configuration Selection**

Transmission was enabled with 100% duty cycle on low, mid and high channel.

### **Test Operation and Test Software**

Test software was used to enable the transmission with 100% duty cycle, changing channels (low/mid/high) on the EUT for the tests in this report.

### **Special Accessories and Auxiliary Equipment**

- None

### **Countermeasures to achieve EMC Compliance**

- Testing was conducted with the Power adaptor cable connected to the AC mains (5v supply for charging EUT).

### **Test Modes – Data Rates and Modulations**

For Radiated spurious emissions, the tests were performed for all data rates and only worst case results are reported in this report.

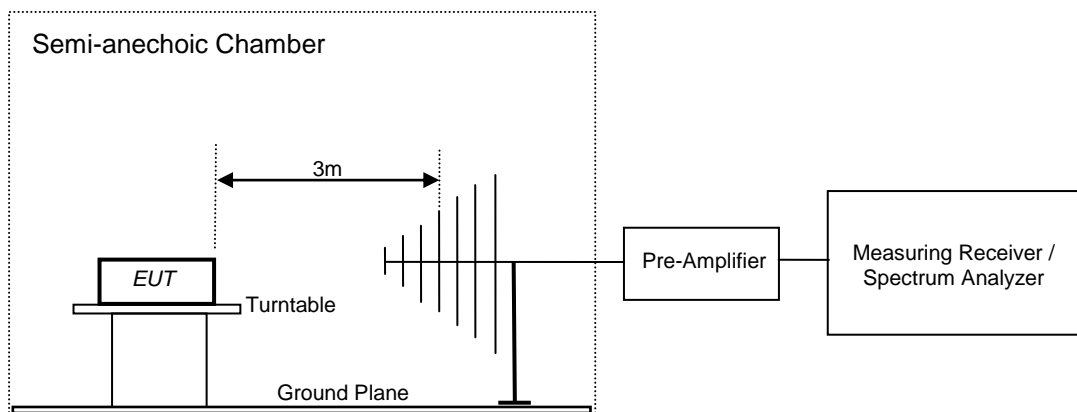
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## Test Methodology

### Radiated Emission Test

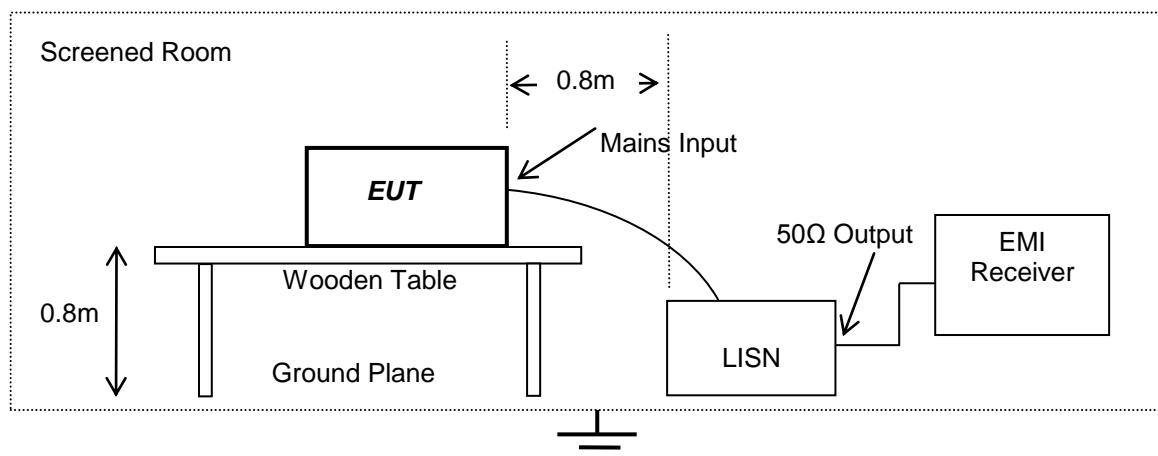
The radiated emission measurement was performed according to the procedures in ANSI C63.10 - 2013. The equipment under test (EUT) was placed at the middle of the 80 cm high turntable for below 1GHz and 1.5m high turntable for above 1GHz, and the EUT is 3 meters far from the measuring antenna. The turntable was rotated 360° for obtaining the maximum emission. The height of the measuring antennas was scanned between 1m and 4m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations. Repeat the measurement steps until the maximum emissions were obtained. The measurement above 1000MHz was performed by horn antenna. The measurement below 30MHz was performed by loop antenna.

The EUT was rotated around the X-, Y-, and Z-Axis and the results from worst case axis are recorded.



### Conducted Emission Test on A.C. mains line

The equipment under test (EUT) was placed on a wooden table 80cm above the ground plane, the LISN was placed 80cm away from the EUT. The test was performed in accordance with ANSI C63.10 - 2013, with the following: an initial measurement was performed in peak and average detection mode on the live and neutral lines. The pre-scan was performed by peak detection on both live and neutral conductors. Any emissions recorded within 20dB of the relevant limit line were re-measured using quasi-peak and average detections, the 6 worst cases were recorded in the table of results.



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**Test Results**

**Antenna Requirement**

**Section 15.203 and 15.204**

**Result**

**Pass**

**FCC Requirement:** No antenna other than that furnished by the responsible party shall be used with the device. Permanently attached antenna is used in the device.

**Antenna details:**

1. Antenna Type: Chip Antenna
2. Manufacturer: Johanson Technology
3. Model no.: 2450AT18A100
4. Peak Gain: 0.5dBi



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Maximum Peak Conducted Output Power

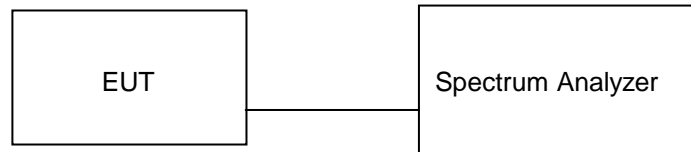
Section 15.247(b) (3)

Result

Pass

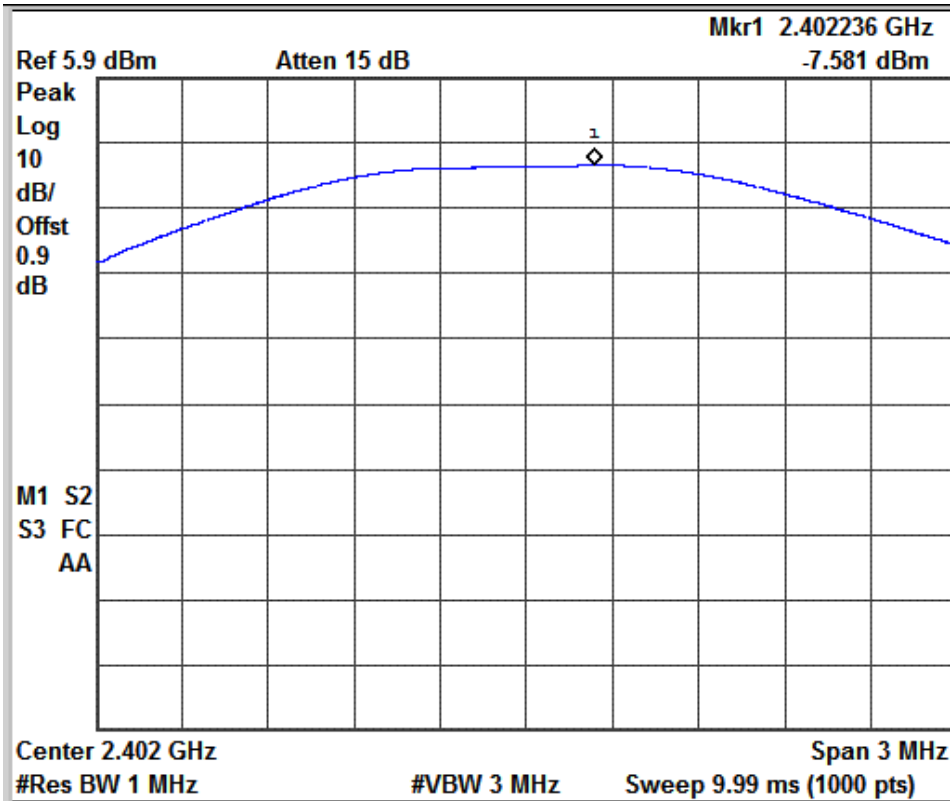
Test Specification                      FCC Part 15 Subpart C  
Measurement Bandwidth (RBW)      300 kHz/1MHz  
Requirement                              <1 watt (30dBm).

Test Method:

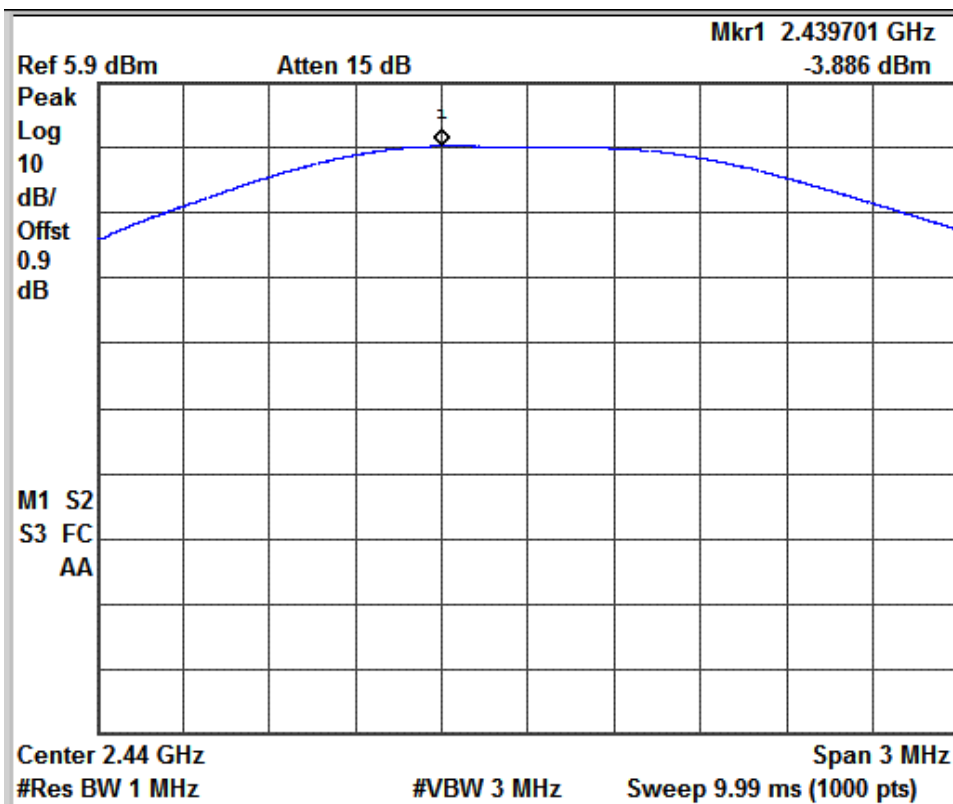


Test Result:

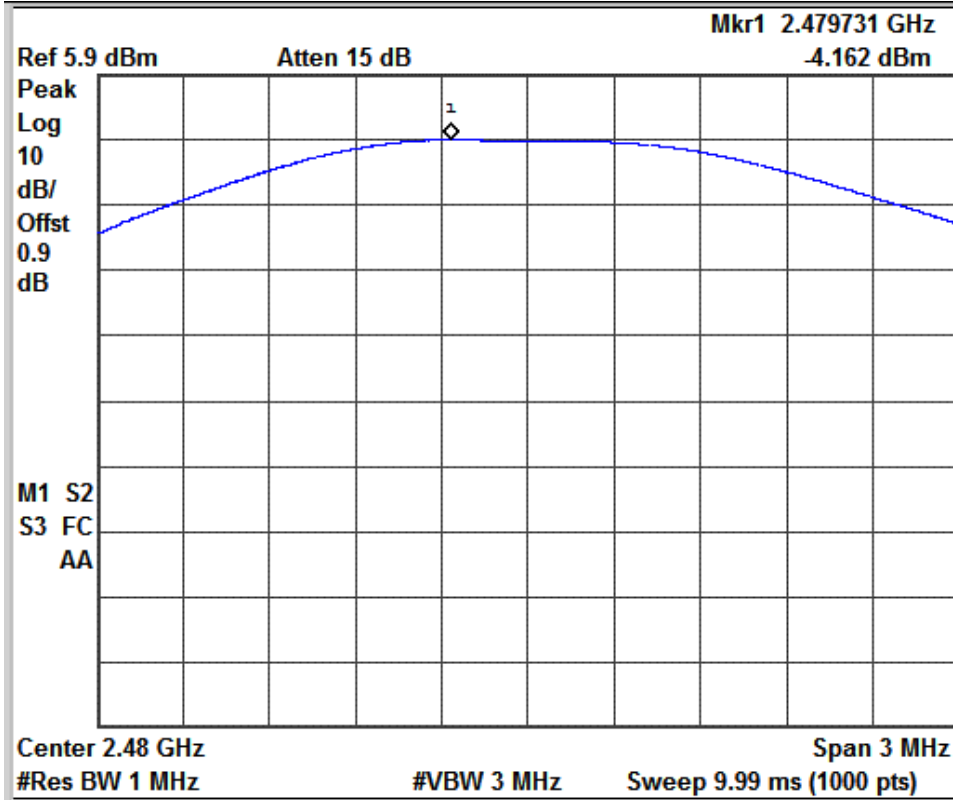
| Channel Frequency (MHz) | Total Power (dBm) | Limit (dBm) | Margin (dB) |
|-------------------------|-------------------|-------------|-------------|
| 2402.00                 | -7.58             | 30.00       | -37.58      |
| 2440.00                 | -3.89             | 30.00       | -33.89      |
| 2480.00                 | -4.16             | 30.00       | -34.16      |



Channel Frequency: 2402 MHz



Channel Frequency: 2440 MHz



Channel Frequency: 2480 MHz

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**Maximum Power Spectral Density**

**Section 15.247(e)**

**Result**

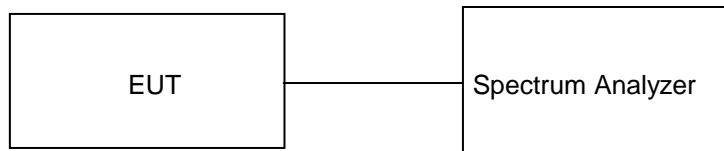
**Pass**

Test Specification  
 Detector Function  
 Requirement

FCC Part 15 Section 15.247 (e)  
 Peak

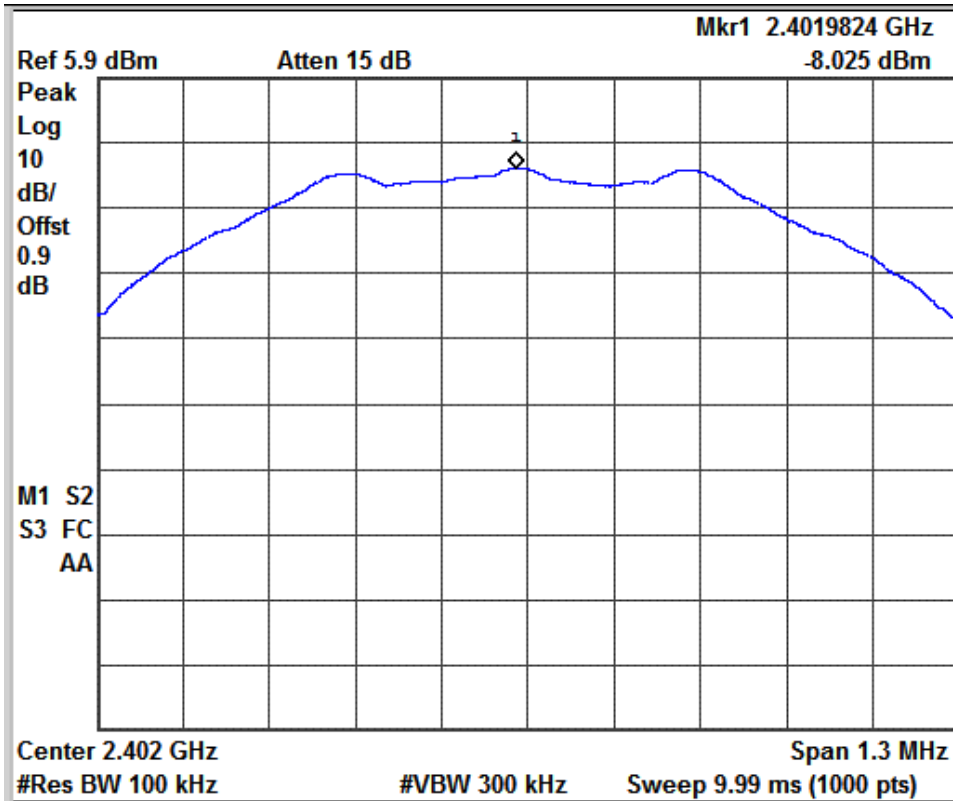
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm.

**Test Method:**

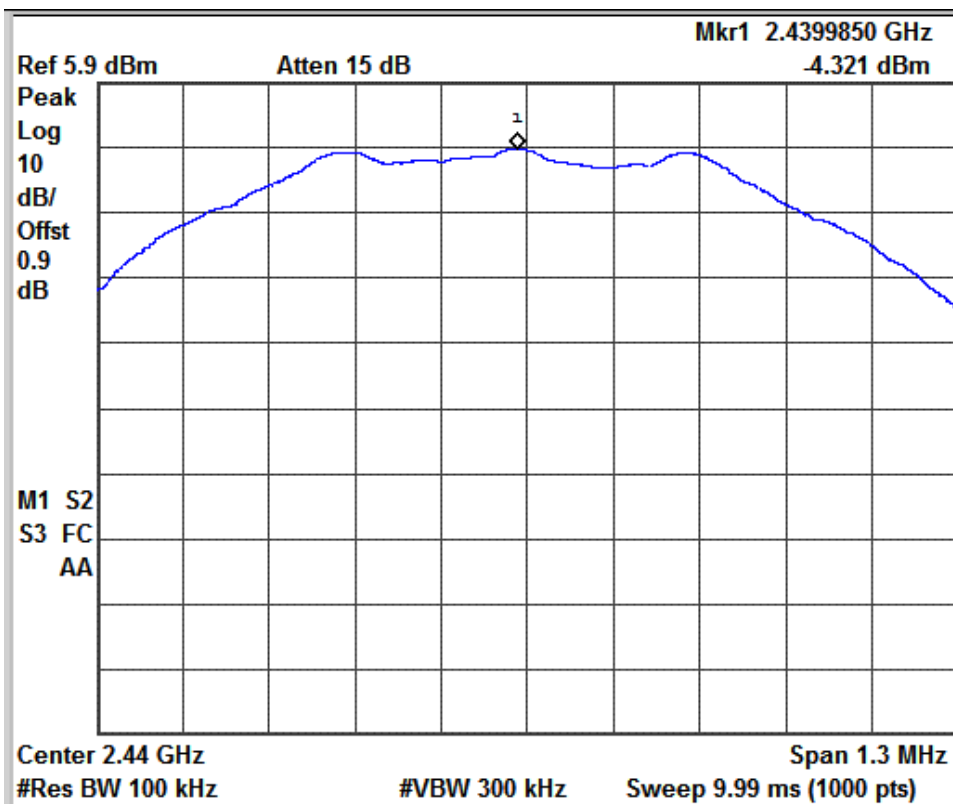


**Test Result:**

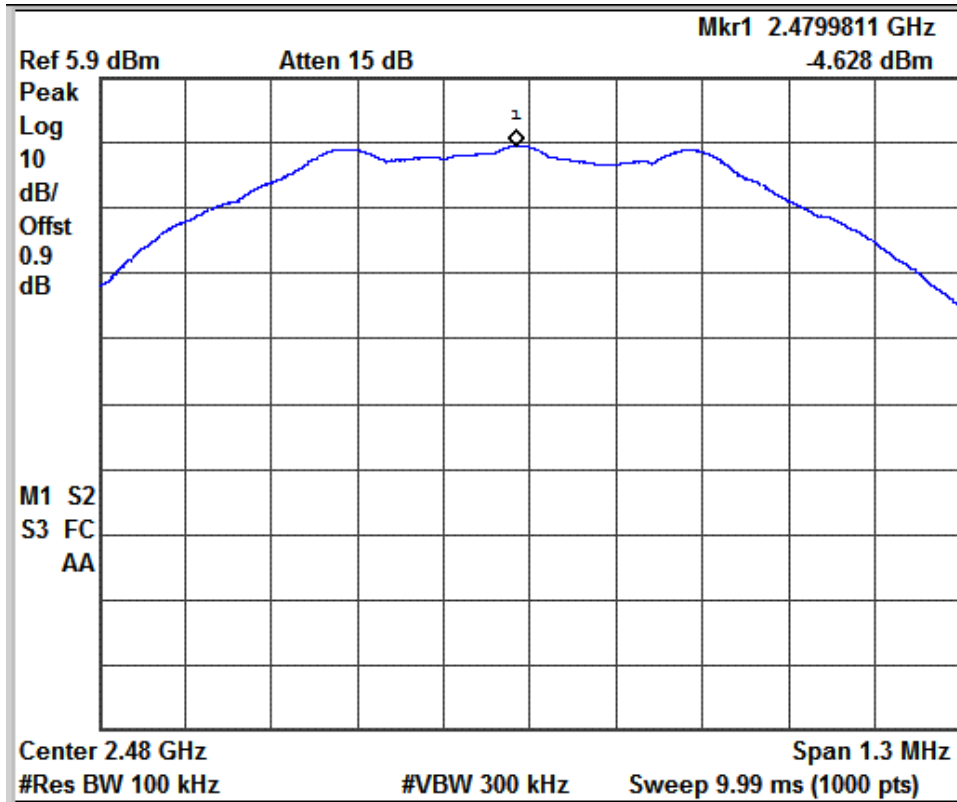
| Channel Frequency (MHz) | Total PSD (dBm) | Limit (dBm) | Margin (dB) |
|-------------------------|-----------------|-------------|-------------|
| 2402.00                 | -8.03           | 8.00        | -16.03      |
| 2440.00                 | -4.32           | 8.00        | -12.32      |
| 2480.00                 | -4.62           | 8.00        | -12.62      |



Channel Frequency: 2402 MHz



Channel Frequency: 2440 MHz



Channel Frequency: 2480 MHz

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**DTS Bandwidth**

**Section 15.247(a) (2)**

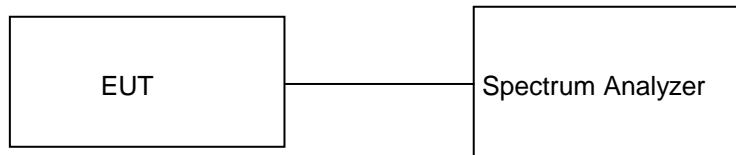
**Result**

**Pass**

Test Specification  
 Requirement

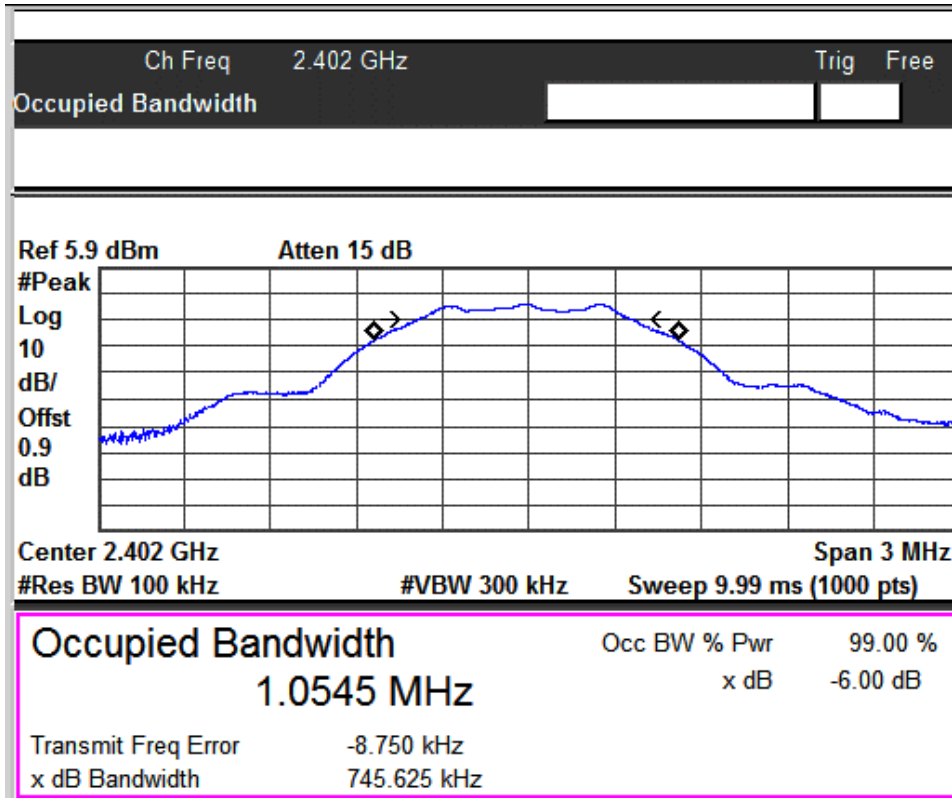
FCC Part 15 Section 15.247 (a) (2)  
 The minimum 6 dB bandwidth shall be at least 500 kHz.

**Test Method:**

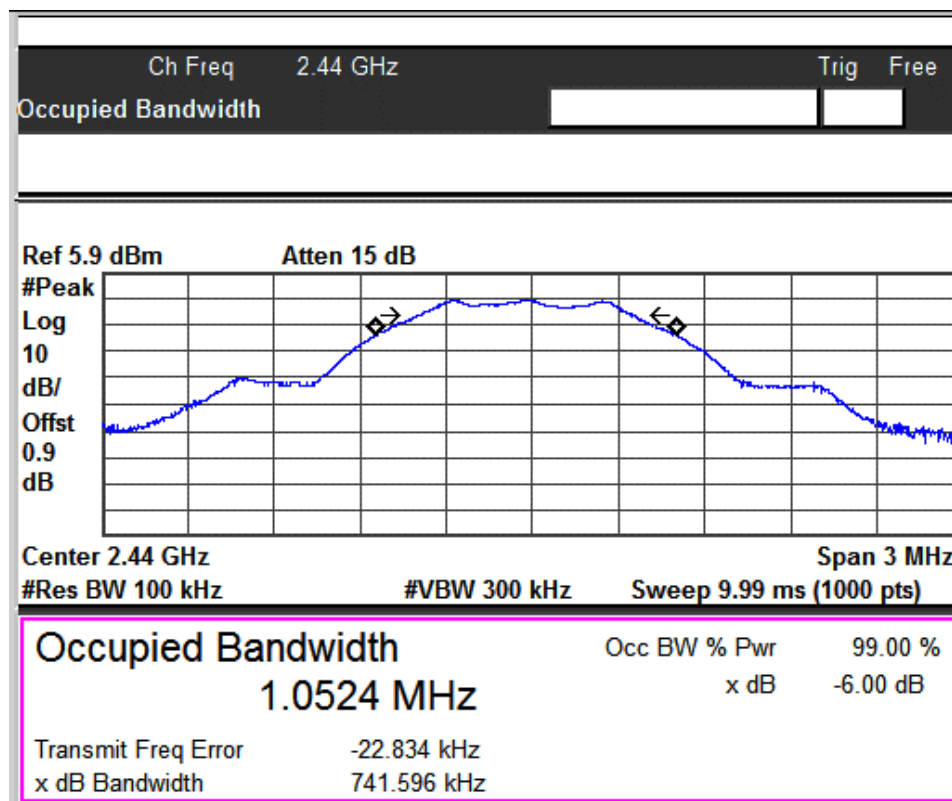


**Test Result:**

| <b>Channel Frequency (MHz)</b> | <b>6 dB Bandwidth (MHz)</b> | <b>99% OBW (MHz)</b> |
|--------------------------------|-----------------------------|----------------------|
| 2402.00                        | 0.75                        | 1.05                 |
| 2440.00                        | 0.75                        | 1.05                 |
| 2480.00                        | 0.75                        | 1.05                 |

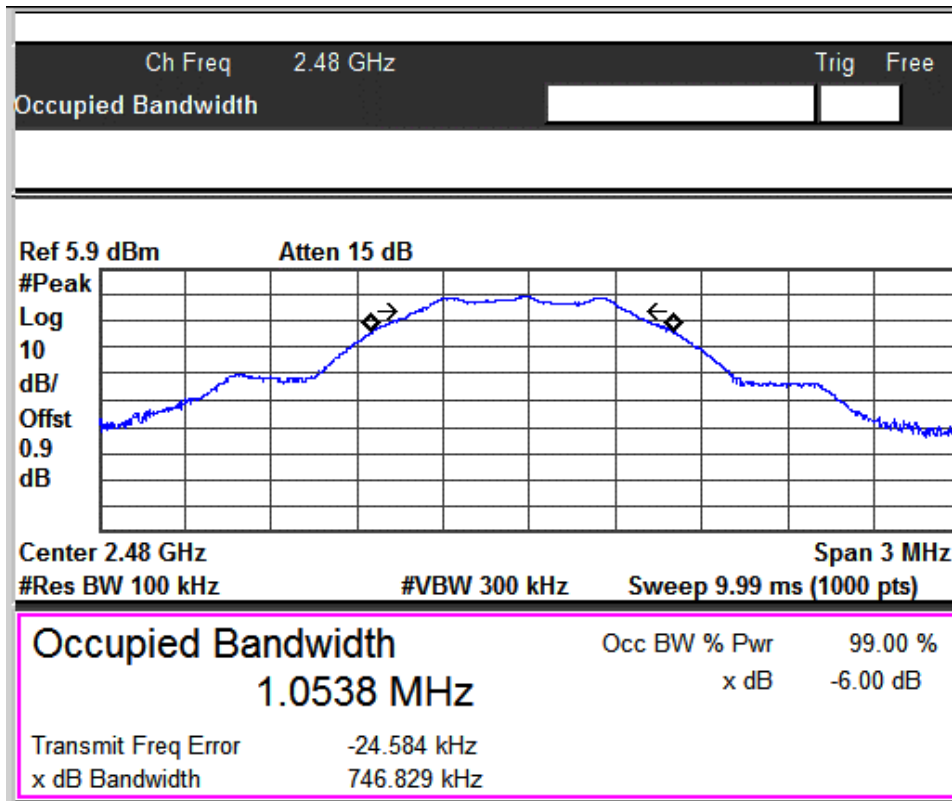


**Channel Frequency: 2402 MHz**



**Channel Frequency: 2440 MHz**





**Channel Frequency: 2480 MHz**

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**Emissions in non-restricted frequency bands**

**Section 15.247(d)**

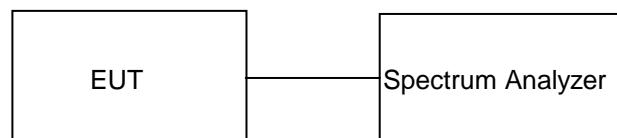
**Result**

**Pass**

Test Specification  
 Detector Function  
 Requirement

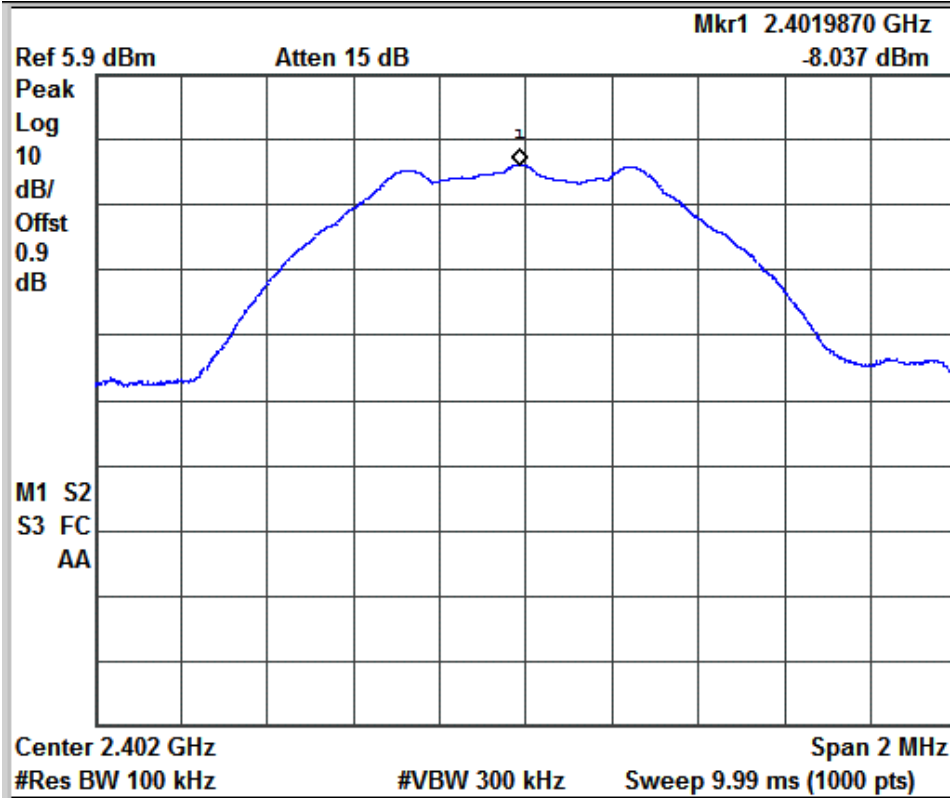
FCC Part 15 Section 15.247(d)  
 Peak  
 In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth 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 conducted power limits.

**Test Method:**



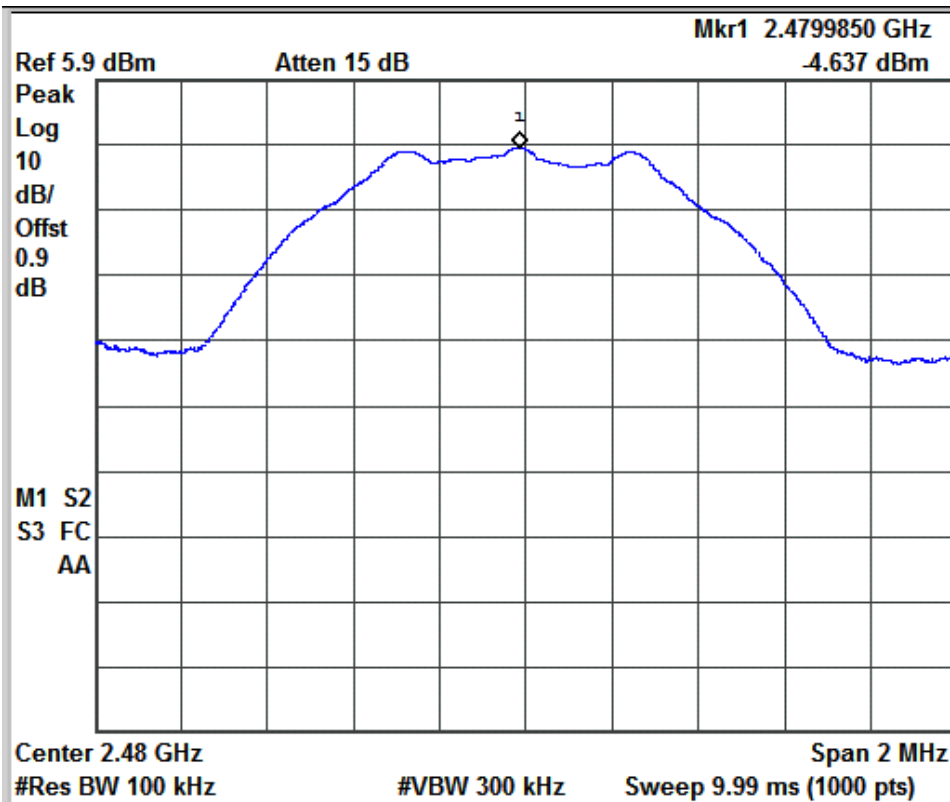
**Test Result:**

| Channel Frequency (MHz) | Value at Band Edge |               | Reference PSD Value B (dBm) | Band Edge Value A-B (dBc) | Limit (dBc) |
|-------------------------|--------------------|---------------|-----------------------------|---------------------------|-------------|
|                         | Frequency (MHz)    | Value A (dBm) |                             |                           |             |
| 2402                    | 2400               | -56.03        | -8.04                       | -47.99                    | -20.00      |
| 2480                    | 2483.50            | -62.42        | -4.64                       | -57.78                    | -20.00      |



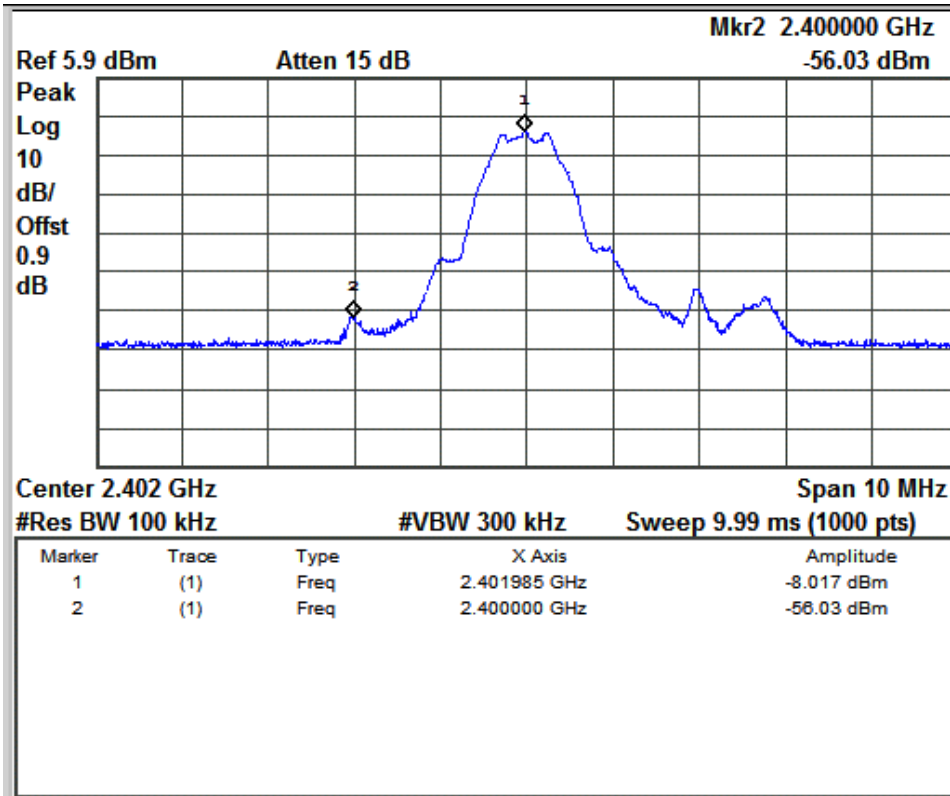
Reference Level Plot

Channel Frequency: 2402MHz

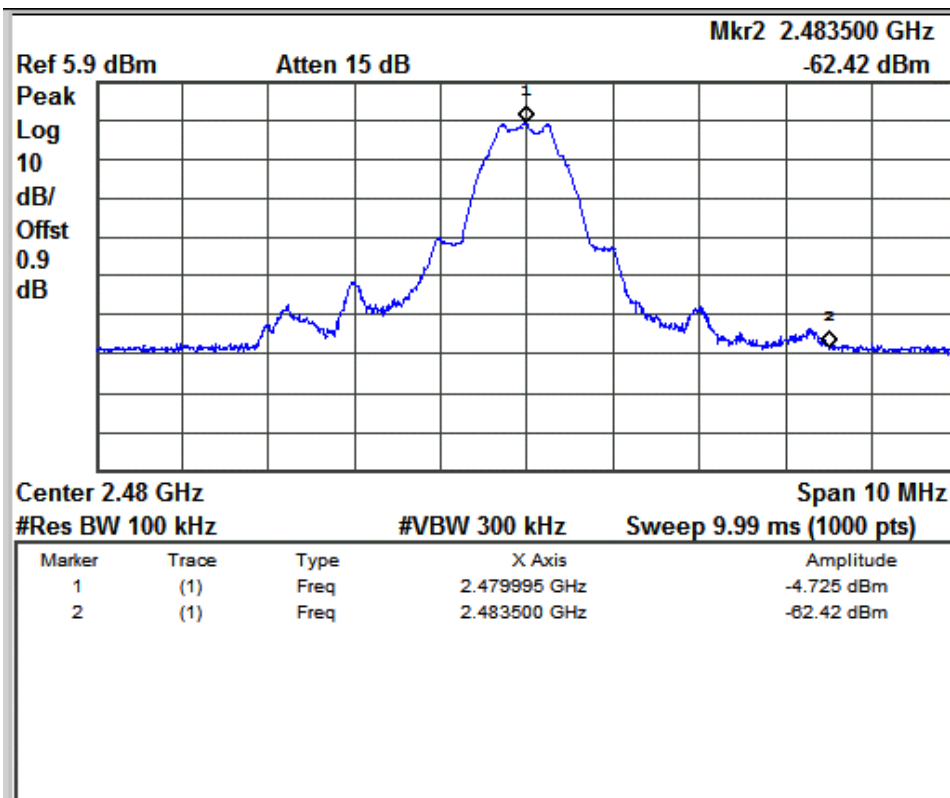


Reference Level Plot

Channel Frequency: 2480MHz

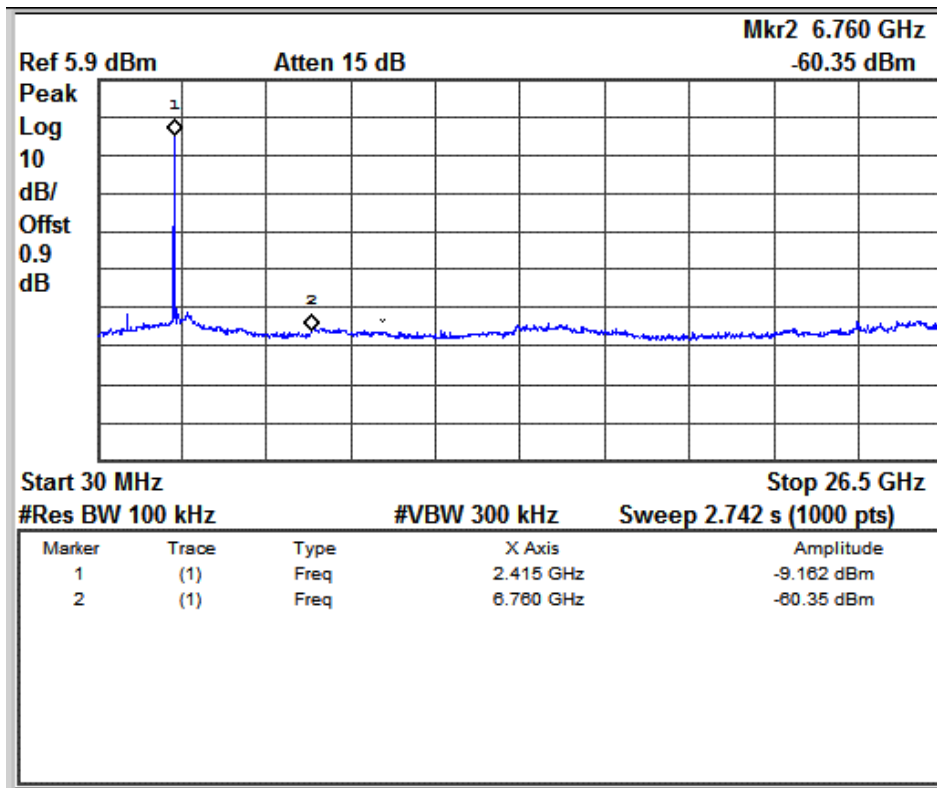


Channel Frequency 2402 MHz

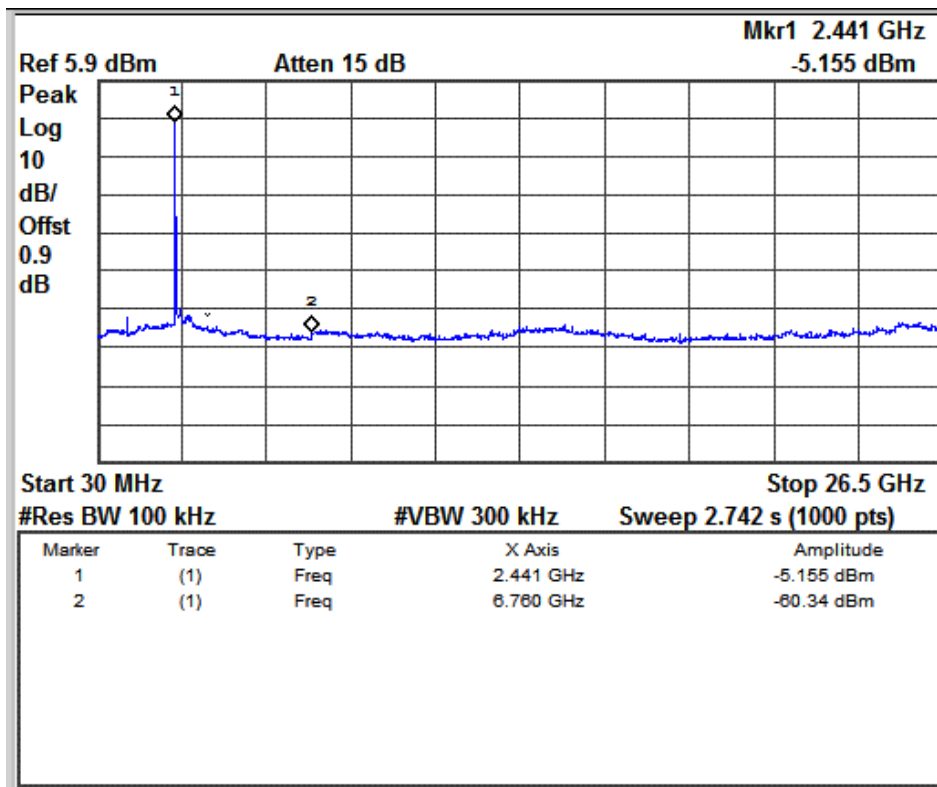


Channel Frequency 2480 MHz

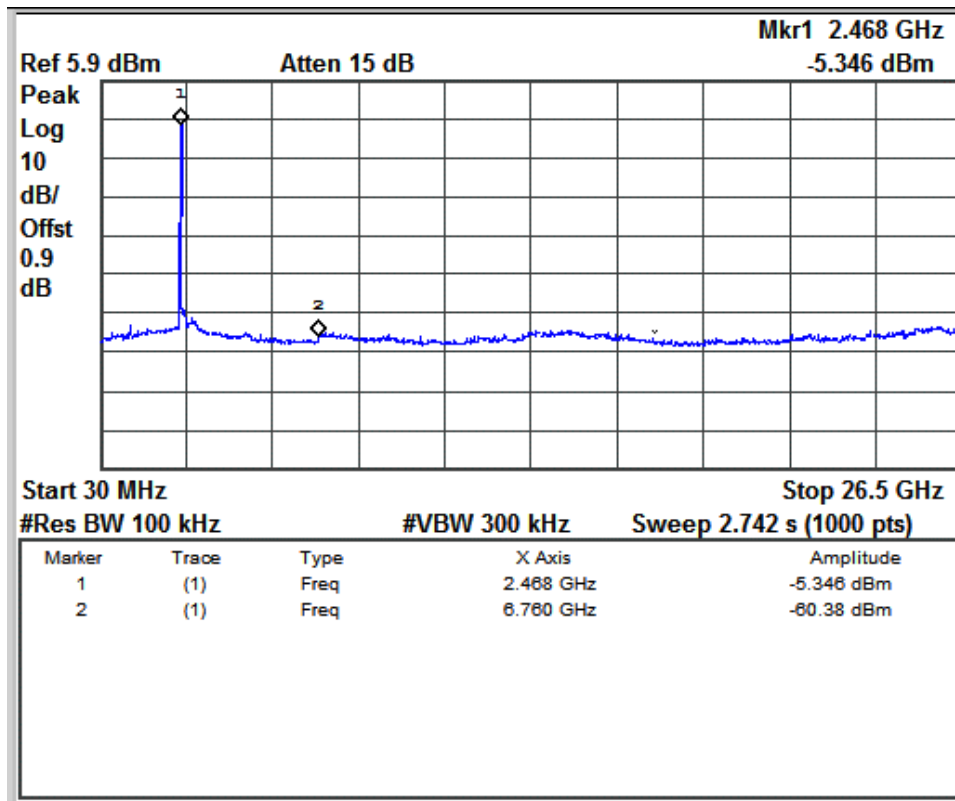
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**Conducted Spurious Emission**



**Channel Frequency 2402 MHz**



**Channel Frequency 2440 MHz**



**Channel Frequency 2480 MHz**

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**Spurious Radiated Emissions and Restricted Bands of Operation**

**Section 15.209 and 15.205**

**Result**

**Pass**

|                      |   |
|----------------------|---|
| Test Specification   | FCC Part 15 Section 15.209 &15.205                            |
| Test Method          | ANSI C63.10-2013  |
| Measurement Location | Semi Anechoic Chamber   |
| Measuring Distance   | 3m  |
| Detection            | QP for frequency below 1GHz, Average for frequency above 1GHz |
| Requirement          | As per the limits mentioned in the bellow table               |

**Limit for Radiated Emission of Section 15.209:**

| Frequency (MHz) | Field strength ( $\mu\text{V/m}$ ) | Field strength ( $\text{dB}\mu\text{V/m}$ ) | Distance of Measurement (m) |
|-----------------|------------------------------------|---|-----------------------------|
| 0.009 – 0.490   | 2400/F(kHz)                        | 48.50 – 13.80                               | 300*                        |
| 0.490 – 1.705   | 24000/F(kHz)                       | 33.80 – 23.00                               | 30*                         |
| 1.705 -30       | 30                                 | 29.54                                       | 30*                         |
| 30-88           | 100                                | 40.0  | 3                           |
| 88-216          | 150                                | 43.5  | 3                           |
| 216-960         | 200                                | 46.0  | 3                           |
| Above 960       | 500                                | 54.0  | 3                           |

Remark: \* The limit shows in the table above of frequency range 0.009 – 0.490, 0.490 – 1.705 MHz and 1.705-30MHz is at 300 meter, 30 meter and 30 meter range respectively, which corresponds to 88.50 – 53.80, 53.80 – 43.00 and 49.5dB $\mu\text{V/m}$  at 3m range by extrapolation calculation and the measurement of loop antenna.

The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.

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## Test results:

For frequency Range 9kHz - 1 GHz

No emissions found in this frequency range.

For frequency above 1GHz

Test results for worst case data rate are listed below.

| Channel  | Polarization | Frequency (MHz) | Measured Emission Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) |
|----------|--------------|-----------------|--|----------------------|-------------|
| LOW      | V            | 2390(Pk)        | 38.64                                  | 74                   | -35.36      |
|          |              | 2390(Av)        | 27.13                                  | 54                   | -26.87      |
|          |              | 2402(Pk)        | 68.22                                  | *                    | *           |
|          |              | 2402(Av)        | 62.00                                  | *                    | *           |
|          |              | 4804(Pk)        | 54.59                                  | 74                   | -19.41      |
|          |              | 4804(Av)        | 44.89                                  | 54                   | -09.11      |
|          |              | 7206(Pk)        | 57.00                                  | 74                   | -17.00      |
|          |              | 7206(Av)        | 44.31                                  | 54                   | -09.69      |
|          | H            | 2390(pk)        | 39.91                                  | 74                   | -34.09      |
|          |              | 2390(Av)        | 27.12                                  | 54                   | -26.88      |
|          |              | 2402(Pk)        | 73.12                                  | *                    | *           |
|          |              | 2402(Av)        | 69.07                                  | *                    | *           |
|          |              | 4804(Pk)        | 56.20                                  | 74                   | -17.80      |
|          |              | 4804(Av)        | 46.17                                  | 54                   | -07.83      |
| 7206(Pk) |              | 57.02           | 74                                     | -16.98               |             |
| 7206(Av) |              | 44.28           | 54                                     | -09.72               |             |
| MID      | V            | 2440(Pk)        | 79.00                                  | *                    | *           |
|          |              | 2440(Av)        | 74.54                                  | *                    | *           |
|          |              | 4880(Pk)        | 53.13                                  | 74                   | -20.87      |
|          |              | 4880(Av)        | 43.12                                  | 54                   | -10.88      |
|          |              | 7320(Pk)        | 56.84                                  | 74                   | -17.16      |
|          |              | 7320(Av)        | 44.90                                  | 54                   | -09.10      |
|          | H            | 2440(Pk)        | 83.76                                  | *                    | *           |
|          |              | 2440(Av)        | 79.09                                  | *                    | *           |
|          |              | 4880(Pk)        | 54.17                                  | 74                   | -19.83      |
|          |              | 4880(Av)        | 44.26                                  | 54                   | -09.74      |
| HIGH     | V            | 2483.5(Pk)      | 39.27                                  | 74                   | -34.73      |
|          |              | 2483.5(Av)      | 27.30                                  | 54                   | -26.70      |
|          |              | 2480(Pk)        | 81.56                                  | *                    | *           |
|          |              | 2480(Av)        | 77.38                                  | *                    | *           |



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|  |   |            |       |    |        |
|--|---|------------|-------|----|--------|
|  |   | 4960(Pk)   | 53.91 | 74 | -20.09 |
|  |   | 4960(Av)   | 43.61 | 54 | -10.39 |
|  |   | 7440(Pk)   | 57.98 | 74 | -16.02 |
|  |   | 7440(Av)   | 45.64 | 54 | -08.36 |
|  | H | 2483.5(Pk) | 39.05 | 74 | -34.95 |
|  |   | 2483.5(Av) | 27.61 | 54 | -26.39 |
|  |   | 2480(Pk)   | 87.14 | *  | *      |
|  |   | 2480(Av)   | 83.12 | *  | *      |
|  |   | 4960(Pk)   | 53.81 | 74 | -20.19 |
|  |   | 4960(Av)   | 44.21 | 54 | -09.79 |
|  |   | 7440(Pk)   | 57.96 | 74 | -16.04 |
|  |   | 7440(Av)   | 45.63 | 54 | -08.37 |

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Conducted Emission Test on A.C. Power Line

Section 15.207

Result

Pass

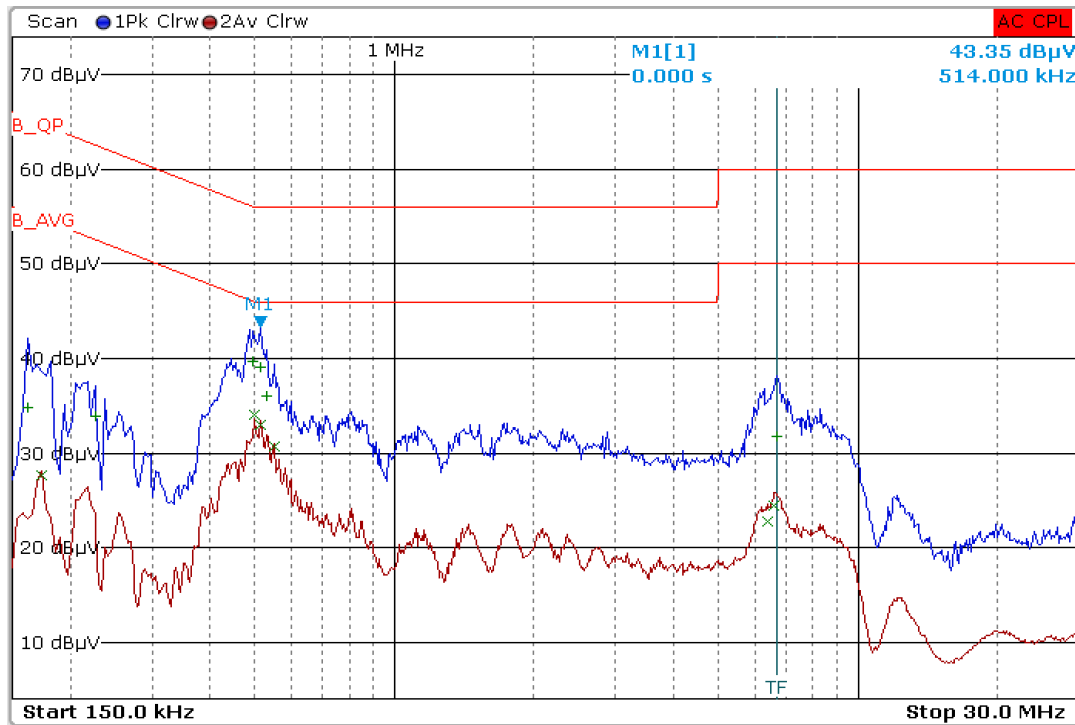
Test Specification : FCC Part 15 Section 15.207  
Test Method : ANSI C63.10-2013  
Testing Location : Screened room  
Measurement Bandwidth : 9kHz  
Frequency Range : 150kHz – 30MHz  
Supply Voltage : 120VAC,60Hz

Limit of section 15.207

| Frequency of emission (MHz) | QP Limit (dB $\mu$ V) | AV Limit (dB $\mu$ V/m) |
|-----------------------------|-----------------------|-------------------------|
| 0.15 – 0.5                  | 66 – 56*              | 56 – 46*                |
| 0.5 – 5                     | 56                    | 46                      |
| 5 – 30                      | 60                    | 50                      |

\* Decreases with the logarithm of the frequency

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**Test Result:**

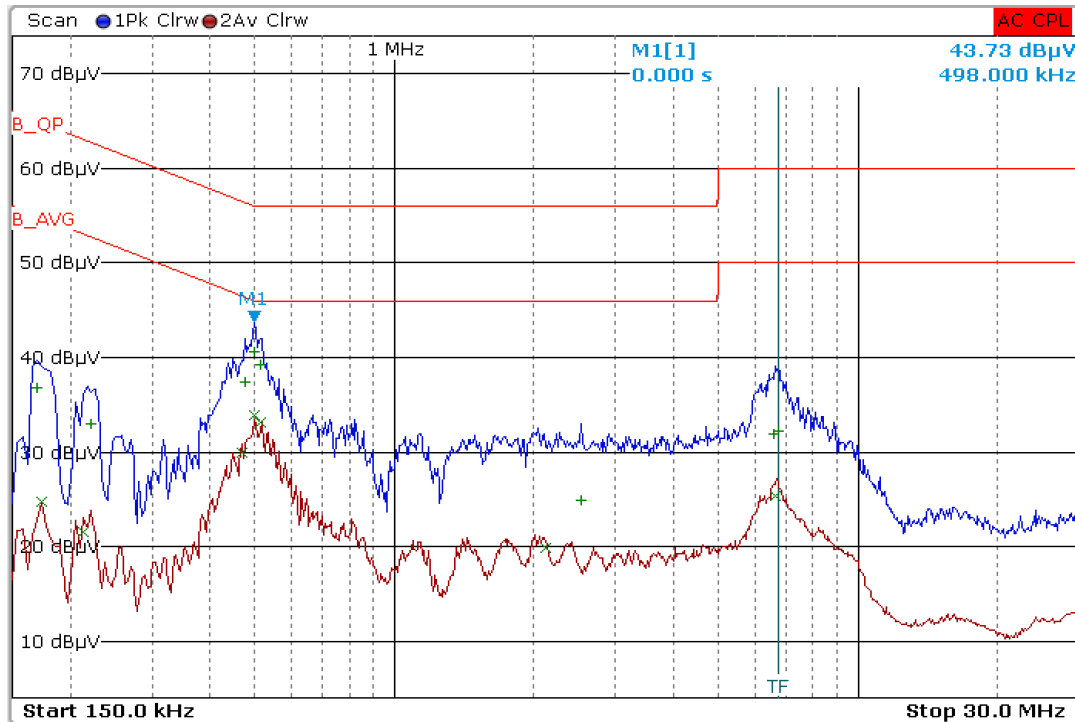


Line Graph

| Frequency [MHz] | Emission Level [dBµV] | Limit [dBµV] | Detector   |
|-----------------|-----------------------|--------------|------------|
| 0.494           | 39.63                 | 56.1         | Quasi Peak |
| 0.514           | 39.11                 | 56.0         | Quasi Peak |
| 0.530           | 36.08                 | 56.0         | Quasi Peak |
| 6.670           | 31.77                 | 60.0         | Quasi Peak |
| 0.226           | 33.86                 | 62.6         | Quasi Peak |
| 0.162           | 34.84                 | 65.4         | Quasi Peak |
| 0.498           | 33.98                 | 46.0         | Average    |
| 0.514           | 32.95                 | 46.0         | Average    |
| 0.550           | 30.64                 | 46.0         | Average    |
| 6.610           | 24.51                 | 50.0         | Average    |
| 0.174           | 27.66                 | 54.8         | Average    |
| 6.374           | 22.77                 | 50.0         | Average    |

Line: Table

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Neutral: Graph

| Frequency [MHz] | Emission Level [dBµV] | Limit [dBµV] | Detector   |
|-----------------|-----------------------|--------------|------------|
| 0.498           | 40.67                 | 56.0         | Quasi Peak |
| 0.514           | 39.21                 | 56.0         | Quasi Peak |
| 0.478           | 37.45                 | 56.4         | Quasi Peak |
| 6.730           | 32.17                 | 60.0         | Quasi Peak |
| 6.586           | 31.94                 | 60.0         | Quasi Peak |
| 0.170           | 36.84                 | 65.0         | Quasi Peak |
| 0.498           | 33.86                 | 46.0         | Average    |
| 0.514           | 33.13                 | 46.0         | Average    |
| 0.470           | 29.88                 | 46.5         | Average    |
| 6.614           | 25.35                 | 50.0         | Average    |
| 2.118           | 19.92                 | 46.0         | Average    |
| 0.174           | 24.81                 | 54.8         | Average    |

Neutral: Table