



CFR 47 FCC PART 15 SUBPART C

CERTIFICATION TEST REPORT

For

300Mbps Wireless N Ceiling Mount Access Point

MODEL NUMBER: EAP110

FCC ID: 2AXJ4EAP110V5

REPORT NUMBER: 4790045423.1-6

ISSUE DATE: September 17, 2021

Prepared for

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Revision History

| Rev. | Issue Date | Revisions | Revised By |
|------|------------|---------------|------------|
| V0 | 09/17/2021 | Initial Issue | |



| Summary of Test Results | | | |
|---|---|---|--------------|
| Clause | Test Items | FCC Rules | Test Results |
| 1 | 6dB Bandwidth | FCC Part 15.247 (a) (2) | Pass |
| 2 | Conducted Output Power | FCC Part 15.247 (b) (3) | Pass |
| 3 | Power Spectral Density | FCC Part 15.247 (e) | Pass |
| 4 | Conducted Bandedge and Spurious Emission | FCC Part 15.247 (d) | Pass |
| 5 | Radiated Bandedge and Spurious Emission | FCC Part 15.247 (d) FCC Part 15.209 FCC Part 15.205 | Pass |
| 6 | Conducted Emission Test for AC Power Port | FCC Part 15.207 | Pass |
| 7 | Antenna Requirement | FCC Part 15.203 | Pass |
| <p>Note:</p> <p>1.This test report is only published to and used by the applicant, and it is not for evidence purpose in China.</p> <p>2. The measurement result for the sample received is <Pass> according to < CFR 47 FCC PART 15 SUBPART C > when <Accuracy Method> decision rule is applied.</p> | | | |



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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: TP-Link Corporation Limited
Address: Room 901, 9/F., New East Ocean Centre, 9 Science Museum Road, Tsim Sha Tsui, Kowloon, Hong Kong

Manufacturer Information

Company Name: TP-Link Technologies Co., Ltd.
Address: Building 24(floors1,3,4,5) and 28(floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China

EUT Information

EUT Name: 300Mbps Wireless N Ceiling Mount Access Point
Model: EAP110
Brand: tp-link
Sample Received Date: July 30, 2021
Sample Status: Normal
Sample ID: 4106242
Date of Tested: July 30, 2021 ~ September 15, 2021

| APPLICABLE STANDARDS | |
|------------------------------|--------------|
| STANDARD | TEST RESULTS |
| CFR 47 FCC PART 15 SUBPART C | PASS |

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 558074 D01 15.247 Meas Guidance v05r02, KDB 662911 D01 Multiple Transmitter Output v02r01, KDB 414788 D01 Radiated Test Site v01r01, CFR 47 FCC Part 2, CFR 47 FCC Part 15 and ANSI C63.10-2013.

3. FACILITIES AND ACCREDITATION

| | |
|---------------------------|--|
| Accreditation Certificate | <p>A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA.</p> <p>FCC (FCC Designation No.: CN1187) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules</p> <p>ISED (Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046.</p> <p>VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber D, the VCCI registration No. is G-20019 and R-20004 Shielding Room B, the VCCI registration No. is C-20012 and T-20011</p> |
|---------------------------|--|

Note 1: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

Note 2: The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3: For below 30 MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30 MHz had been correlated to measurements performed on an OFS.



4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognize national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

| Test Item | Uncertainty |
|---|---------------------------|
| Conduction emission | 3.62 dB |
| Radiated Emission (Included Fundamental Emission) (9 kHz ~ 30 MHz) | 2.2 dB |
| Radiated Emission (Included Fundamental Emission) (30 MHz ~ 1 GHz) | 4.00 dB |
| Radiated Emission (Included Fundamental Emission) (1 GHz to 26 GHz) | 5.78 dB (1 GHz ~ 18 GHz) |
| | 5.23 dB (18 GHz ~ 26 GHz) |
| Duty Cycle | ±0.028% |
| DTS and 99% Occupied Bandwidth | ±0.0196% |
| Maximum Conducted Output Power | ±0.686 dB |
| Maximum Power Spectral Density Level | ±0.743 dB |
| Conducted Band-edge Compliance | ±1.328 dB |
| Conducted Unwanted Emissions In Non-restricted Frequency Bands | ±0.746 dB (9 kHz ~ 1 GHz) |
| | ±1.328dB (1 GHz ~ 26 GHz) |
| Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2. | |



5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

| | |
|---------------------|---|
| EUT Name | 300Mbps Wireless N Ceiling Mount Access Point |
| Model | EAP110 |
| Radio Technology | IEEE802.11b/g/n HT20/n HT40 |
| Operation frequency | IEEE 802.11b: 2412MHz—2462MHz IEEE 802.11g: 2412MHz—2462MHz IEEE 802.11n HT20: 2412MHz—2462MHz IEEE 802.11n HT40: 2422MHz—2452MHz |
| Modulation | IEEE 802.11b: DSSS(CCK) IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK,BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK,BPSK) |
| Software version | EAP110v5_1.0.0_[20210720-rel62688] |
| Firmware version | 2053500380 Rev 1.0 |
| Rated Input | AC 120 V, 60 Hz |

5.2. CHANNEL LIST

| Channel List for 802.11b/g/n (20 MHz) | | | | | | | |
|---------------------------------------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 1 | 2412 | 4 | 2427 | 7 | 2442 | 10 | 2457 |
| 2 | 2417 | 5 | 2432 | 8 | 2447 | 11 | 2462 |
| 3 | 2422 | 6 | 2437 | 9 | 2452 | / | / |

| Channel List for 802.11n (40 MHz) | | | | | | | |
|-----------------------------------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 3 | 2422 | 5 | 2432 | 7 | 2442 | 9 | 2452 |
| 4 | 2427 | 6 | 2437 | 8 | 2447 | / | / |

5.3. MAXIMUM OUTPUT POWER

| IEEE Std. 802.11 | Frequency (MHz) | Channel Number | Maximum Conducted AVG Output Power (dBm) |
|------------------|-----------------|----------------|--|
| b | 2412 ~ 2462 | 1-11[11] | 24.13 |
| g | 2412 ~ 2462 | 1-11[11] | 23.83 |
| n HT20 | 2412 ~ 2462 | 1-11[11] | 23.46 |
| n HT40 | 2422 ~ 2452 | 3-9[7] | 21.91 |



5.4. TEST CHANNEL CONFIGURATION

| Test Mode | Test Channel | Frequency(MHz) |
|--------------|---------------------------|------------------------------|
| 802.11b | CH 1, CH2 CH 6,CH10 CH 11 | 2412, 2417, 2437, 2457, 2462 |
| 802.11g | CH 1, CH2 CH 6,CH10 CH 11 | 2412, 2417, 2437, 2457, 2462 |
| 802.11n HT20 | CH 1, CH2 CH 6,CH10 CH 11 | 2412, 2417, 2437, 2457, 2462 |
| 802.11n HT40 | CH 3, CH4 CH 6,CH8, CH 9 | 2422, 2427, 2437, 2447, 2452 |

5.5. THE WORSE CASE POWER SETTING PARAMETER

| The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band | | | | | | | | | | | |
|--|-------------------------|-----------------------------|-----|-----|------|------|------------|-----|-----|-----|-----|
| Test Software | | QATool_Dbg | | | | | | | | | |
| Modulation Mode | Transmit Antenna Number | Test Software Setting Value | | | | | | | | | |
| | | NCB: 20MHz | | | | | NCB: 40MHz | | | | |
| | | CH1 | CH2 | CH6 | CH10 | CH11 | CH3 | CH4 | CH6 | CH8 | CH9 |
| 802.11b | 1&2 | 28 | 28 | 28 | 28 | 27 | NA | | | | |
| 802.11g | 1&2 | 23 | 28 | 28 | 28 | 24 | | | | | |
| 802.11n HT20 | 1&2 | 20 | 26 | 28 | 27 | 21 | | | | | |
| 802.11n HT40 | 1&2 | / | | | | | 1B | 1F | 24 | 1F | 1D |

5.6. THE WORSE CASE CONFIGURATIONS

The EUT was tested in the following configuration(s):

Controlled in test mode using a software application on the EUT supplied by customer. The application was used to enable a continuous transmission and to select the mode, test channels, bandwidth, data rates as required.

Worst-case data rates as provided by the client were:

802.11b mode: 1 Mbps
802.11b mode: 6 Mbps
802.11n HT20 mode: MCS0
802.11n HT40 mode: MCS0

The EUT has 2 separate antennas which correspond to 2 separate antenna ports. Core 1 and Core 2 correspond to antenna 1 and antenna 2 respectively.

The measured additional path loss was included in any path loss calculations for all RF cable used during tested.



5.7. DESCRIPTION OF AVAILABLE ANTENNAS

| Antenna | Frequency (MHz) | Antenna Type | MAX Antenna Gain (dBi) |
|---------|-----------------|--------------|------------------------|
| 1 | 2412-2462 | PIFA Antenna | 4 |
| 2 | 2412-2462 | PIFA Antenna | 4 |

| Test Mode | Transmit and Receive Mode | Description |
|--|--|--|
| IEEE 802.11b | <input checked="" type="checkbox"/> 2TX, 2RX | ANT 1 and ANT 2 can be used as transmitting/receiving antenna. |
| IEEE 802.11g | <input checked="" type="checkbox"/> 2TX, 2RX | ANT 1 and ANT 2 can be used as transmitting/receiving antenna. |
| IEEE 802.11n HT20 | <input checked="" type="checkbox"/> 2TX, 2RX | ANT 1 and ANT 2 can be used as transmitting/receiving antenna. |
| IEEE 802.11n HT40 | <input checked="" type="checkbox"/> 2TX, 2RX | ANT 1 and ANT 2 can be used as transmitting/receiving antenna. |
| Note: 1. 802.11n HT20/HT40 support MIMO mode. 2. 802.11b/g support CDD mode. | | |

Note: The value of the antenna gain was declared by customer.



5.8. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

| Item | Equipment | Brand Name | Model Name | Remarks |
|------|-----------|------------|-------------|----------|
| 1 | PC | Dell | Vostro 3902 | 8KNDDDB2 |

I/O CABLES

| Cable No | Port | Connector Type | Cable Type | Cable Length(m) | Remarks |
|----------|------------|----------------|------------|-----------------|------------------------------|
| 1 | RJ45 cable | / | / | 2.0 | / |
| 2 | AC Cable | N/A | N/A | 0.3 | No Ferrite Core No shield |

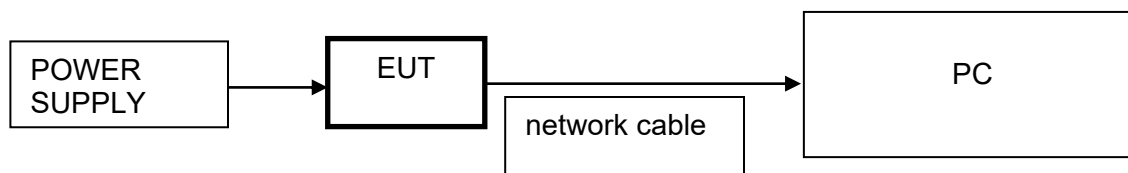
ACCESSORIES

| Item | Accessory | Brand Name | Model Name | Description |
|------|--------------------|------------|------------|--|
| 1 | I.T.E POWER SUPPLY | tp-link | TL-POE2406 | Input:100-240V~, 50/60Hz, 0.3A Output:24Vdc, 0.25A |

TEST SETUP

The EUT can work in engineering mode with a software.

SETUP DIAGRAM FOR TESTS





6. MEASURING INSTRUMENT AND SOFTWARE USED

| Conducted Emissions | | | | | |
|---------------------------------------|--------------|-----------|--------------|---------------|---------------|
| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Due Date |
| EMI Test Receiver | R&S | ESR3 | 101961 | Nov. 12, 2020 | Nov. 11, 2021 |
| Two-Line V-Network | R&S | ENV216 | 101983 | Nov. 12, 2020 | Nov. 11, 2021 |
| Artificial Mains Networks | Schwarzbeck | NSLK 8126 | 8126465 | Nov. 12, 2020 | Nov. 11, 2021 |
| Software | | | | | |
| Description | | | Manufacturer | Name | Version |
| Test Software for Conducted Emissions | | | Farad | EZ-EMC | Ver. UL-3A1 |

| Radiated Emissions | | | | | |
|-----------------------------|---------------|-------------------------------------|---------------|----------------|----------------|
| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Due Date |
| MXE EMI Receiver | KESIGHT | N9038A | MY56400036 | Nov. 12, 2020 | Nov. 11, 2021 |
| Hybrid Log Periodic Antenna | TDK | HLP-3003C | 130959 | April 24, 2020 | April 23, 2023 |
| Preamplifier | HP | 8447D | 2944A09099 | Nov. 12, 2020 | Nov. 11, 2021 |
| EMI Measurement Receiver | R&S | ESR26 | 101377 | Nov. 12, 2020 | Nov. 11, 2021 |
| Horn Antenna | TDK | HRN-0118 | 130939 | Sept. 17, 2018 | Sept. 17, 2021 |
| Preamplifier | TDK | PA-02-0118 | TRS-305-00067 | Nov. 20, 2020 | Nov. 19, 2021 |
| Horn Antenna | Schwarzbeck | BBHA9170 | #697 | July 20, 2021 | July 19, 2024 |
| Preamplifier | TDK | PA-02-2 | TRS-307-00003 | Nov. 12, 2020 | Nov. 11, 2021 |
| Preamplifier | TDK | PA-02-3 | TRS-308-00002 | Nov. 12, 2020 | Nov. 11, 2021 |
| Loop antenna | Schwarzbeck | 1519B | 00008 | Jan.17, 2019 | Jan.17,2022 |
| Preamplifier | TDK | PA-02-001-3000 | TRS-302-00050 | Nov. 12, 2020 | Nov. 11, 2021 |
| Preamplifier | Mini-Circuits | ZX60-83LN-S+ | SUP01201941 | Nov. 20, 2020 | Nov. 19, 2021 |
| High Pass Filter | Wi | WHKX10-2700-3000-18000-40SS | 23 | Nov. 12, 2020 | Nov. 11, 2021 |
| Band Reject Filter | Wainwright | WRCJV8-2350-2400-2483.5-2533.5-40SS | 4 | Nov. 12, 2020 | Nov. 11, 2021 |



| Software | | | |
|--------------------------------------|--------------|--------|-------------|
| Description | Manufacturer | Name | Version |
| Test Software for Radiated Emissions | Farad | EZ-EMC | Ver. UL-3A1 |

| Tonsend RF Test System | | | | | |
|-------------------------------------|--------------|-------------------------|------------|-------------|-------------|
| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Due. Date |
| Wideband Radio Communication Tester | R&S | CMW500 | 155523 | Nov.20,2020 | Nov.19,2021 |
| PXA Signal Analyzer | Keysight | N9030A | MY55410512 | Nov.20,2020 | Nov.19,2021 |
| MXG Vector Signal Generator | Keysight | N5182B | MY56200284 | Nov.20,2020 | Nov.19,2021 |
| MXG Vector Signal Generator | Keysight | N5172B | MY56200301 | Nov.20,2020 | Nov.19,2021 |
| DC power supply | Keysight | E3642A | MY55159130 | Nov.24,2020 | Nov.23,2021 |
| Software | | | | | |
| Description | Manufacturer | Name | | Version | |
| Tonsend SRD Test System | Tonsend | JS1120-3 RF Test System | | 2.6.77.0518 | |

| Other Instruments | | | | | |
|--------------------------|--------------|---------------------------|------------|---------------|---------------|
| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
| Dual Channel Power Meter | Keysight | N1912A | MY55416024 | Nov. 20, 2020 | Nov. 19, 2021 |
| Power Sensor | Keysight | USB Wideband Power Sensor | MY5100022 | Nov. 20, 2020 | Nov. 19, 2021 |
| Attenuator | Keysight | 8496B | US00431137 | Nov. 20, 2020 | Nov. 19, 2021 |



7. ANTENNA PORT TEST RESULTS

7.1. ON TIME AND DUTY CYCLE

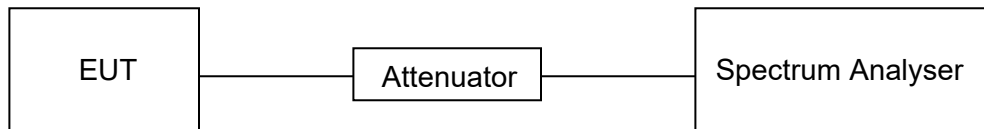
LIMITS

None; for reporting purposes only

PROCEDURE

Refer to ANSI C63.10-2013 clause 11.6 Zero – Span Spectrum Analyzer method.

TEST SETUP



TEST ENVIRONMENT

| | | | |
|---------------------|---------|-------------------|----------------|
| Temperature | 26.2 °C | Relative Humidity | 55.3 % |
| Atmosphere Pressure | 101 kPa | Test Voltage | AC 120V, 60 HZ |

RESULTS

Please refer to appendix G.



7.2. 6 dB DTS BANDWIDTH AND 99 % OCCUPIED BANDWIDTH

LIMITS

| CFR 47 FCC Part15 (15.247) Subpart C | | | |
|--------------------------------------|-------------------------|------------------------------|-----------------------|
| Section | Test Item | Limit | Frequency Range (MHz) |
| CFR 47 FCC 15.247(a)(2) | 6 dB Bandwidth | ≥ 500 kHz | 2400-2483.5 |
| ISED RSS-Gen Clause 6.7 | 99 % Occupied Bandwidth | For reporting purposes only. | 2400-2483.5 |

TEST PROCEDURE

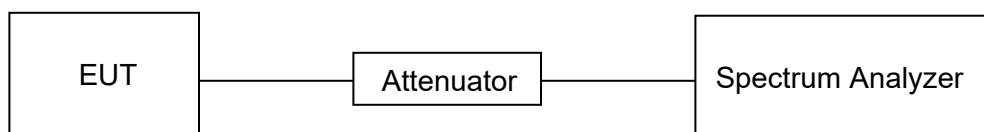
Connect the EUT to the spectrum analyser and use the following settings:

| | |
|------------------|--|
| Center Frequency | The center frequency of the channel under test |
| Frequency Span | Between 2 times and 5.0 times the OBW |
| Detector | Peak |
| RBW | For 6 dB Bandwidth: 100 kHz For 99 % Occupied Bandwidth: 1 % to 5 % of the occupied bandwidth |
| VBW | For 6 dB Bandwidth: $\geq 3 \times$ RBW For 99 % Occupied Bandwidth: $\geq 3 \times$ RBW |
| Trace | Max hold |
| Sweep | Auto couple |

a) Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.

b) Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

TEST SETUP



**TEST ENVIRONMENT**

| | | | |
|---------------------|---------|-------------------|----------------|
| Temperature | 26.2 °C | Relative Humidity | 55.3 % |
| Atmosphere Pressure | 101 kPa | Test Voltage | AC 120V, 60 HZ |

RESULTS

Please refer to appendix A & B.



7.3. CONDUCTED OUTPUT POWER

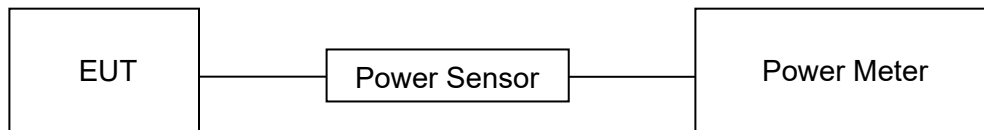
LIMITS

| CFR 47 FCC Part15 (15.247) Subpart C | | | |
|--------------------------------------|------------------|------------------|-----------------------|
| Section | Test Item | Limit | Frequency Range (MHz) |
| CFR 47 FCC 15.247(b)(3) | AVG Output Power | 1 watt or 30 dBm | 2400-2483.5 |

TEST PROCEDURE

Connect the EUT to a low loss RF cable from the antenna port to the power sensor (video bandwidth is greater than the occupied bandwidth).
Measure peak emission level, the indicated level is the average output power, after any corrections for external attenuators and cables.

TEST SETUP



TEST ENVIRONMENT

| | | | |
|---------------------|---------|-------------------|----------------|
| Temperature | 26.2 °C | Relative Humidity | 55.3 % |
| Atmosphere Pressure | 101 kPa | Test Voltage | AC 120V, 60 HZ |

RESULTS

Please refer to appendix C.



7.4. POWER SPECTRAL DENSITY

LIMITS

| CFR 47 FCC Part15 (15.247) Subpart C | | | |
|--------------------------------------|------------------------|-------------|-----------------------|
| Section | Test Item | Limit | Frequency Range (MHz) |
| CFR 47 FCC §15.247 (e) | Power Spectral Density | 8 dBm/3 kHz | 2400-2483.5 |

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.10.

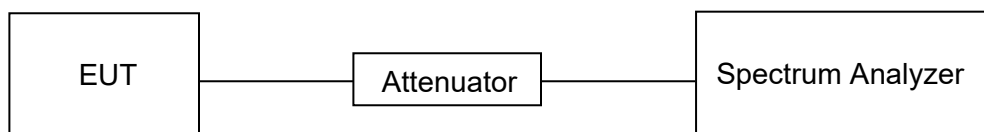
Connect the EUT to the spectrum analyser and use the following settings:

| | |
|------------------|--|
| Center Frequency | The center frequency of the channel under test |
| Detector | AVG |
| RBW | $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ |
| VBW | $\geq 3 \times \text{RBW}$ |
| Span | 1.5 x DTS bandwidth |
| Trace | Trace average |
| Sweep time | Auto couple |

Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST SETUP



TEST ENVIRONMENT

| | | | |
|---------------------|---------|-------------------|----------------|
| Temperature | 26.2 °C | Relative Humidity | 55.3 % |
| Atmosphere Pressure | 101 kPa | Test Voltage | AC 120V, 60 HZ |



RESULTS

Please refer to appendix D.



7.5. CONDUCTED BANDEGE AND SPURIOUS EMISSIONS

LIMITS

| CFR 47 FCC Part15 (15.247) Subpart C | | |
|--------------------------------------|---|---|
| Section | Test Item | Limit |
| CFR 47 FCC §15.247 (d) | Conducted Bandedge and Spurious Emissions | at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power |

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.11 and 11.13.

Connect the EUT to the spectrum analyser and use the following settings for reference level measurement:

| | |
|------------------|--|
| Center Frequency | The center frequency of the channel under test |
| Detector | Peak |
| RBW | 100 kHz |
| VBW | $\geq 3 \times \text{RBW}$ |
| Span | 1.5 x DTS bandwidth |
| Trace | Max hold |
| Sweep time | Auto couple. |

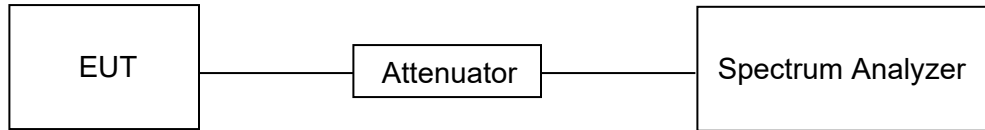
Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level.

Change the settings for emission level measurement:

| | |
|--------------------|---|
| Span | Set the center frequency and span to encompass frequency range to be measured |
| Detector | Peak |
| RBW | 100 kHz |
| VBW | $\geq 3 \times \text{RBW}$ |
| measurement points | $\geq \text{span}/\text{RBW}$ |
| Trace | Max hold |
| Sweep time | Auto couple. |

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11.

TEST SETUP

**TEST ENVIRONMENT**

| | | | |
|---------------------|---------|-------------------|----------------|
| Temperature | 26.2 °C | Relative Humidity | 55.3 % |
| Atmosphere Pressure | 101 kPa | Test Voltage | AC 120V, 60 HZ |

RESULTS

Please refer to appendix E & F.



8. RADIATED TEST RESULTS

LIMITS

Please refer to CFR 47 FCC §15.205 and §15.209.

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz ~ 1 GHz)

| Emissions radiated outside of the specified frequency bands above 30 MHz | | | |
|--|---------------------------------------|---|---------|
| Frequency Range (MHz) | Field Strength Limit (uV/m) at 3 m | Field Strength Limit (dBuV/m) at 3 m | |
| | | Quasi-Peak | |
| 30 - 88 | 100 | 40 | |
| 88 - 216 | 150 | 43.5 | |
| 216 - 960 | 200 | 46 | |
| Above 960 | 500 | 54 | |
| Above 1000 | 500 | Peak | Average |
| | | 74 | 54 |

| FCC Emissions radiated outside of the specified frequency bands below 30 MHz | | |
|--|-----------------------------------|-------------------------------|
| 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 |



FCC Restricted bands of operation refer to FCC §15.205 (a):

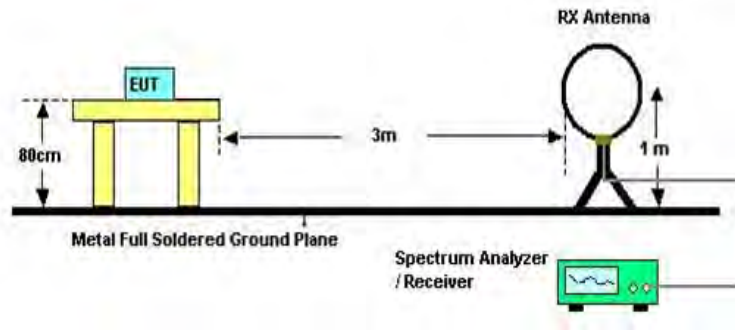
| MHz | MHz | MHz | GHz |
|--------------------------|---------------------|---------------|------------------|
| 0.090-0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.15 |
| ¹ 0.495-0.505 | 16.69475-16.69525 | 608-614 | 5.35-5.46 |
| 2.1735-2.1905 | 16.80425-16.80475 | 960-1240 | 7.25-7.75 |
| 4.125-4.128 | 25.5-25.67 | 1300-1427 | 8.025-8.5 |
| 4.17725-4.17775 | 37.5-38.25 | 1435-1626.5 | 9.0-9.2 |
| 4.20725-4.20775 | 73-74.6 | 1645.5-1646.5 | 9.3-9.5 |
| 6.215-6.218 | 74.8-75.2 | 1660-1710 | 10.6-12.7 |
| 6.26775-6.26825 | 108-121.94 | 1718.8-1722.2 | 13.25-13.4 |
| 6.31175-6.31225 | 123-138 | 2200-2300 | 14.47-14.5 |
| 8.291-8.294 | 149.9-150.05 | 2310-2390 | 15.35-16.2 |
| 8.362-8.366 | 156.52475-156.52525 | 2483.5-2500 | 17.7-21.4 |
| 8.37625-8.38675 | 156.7-156.9 | 2690-2900 | 22.01-23.12 |
| 8.41425-8.41475 | 162.0125-167.17 | 3260-3267 | 23.6-24.0 |
| 12.29-12.293 | 167.72-173.2 | 3332-3339 | 31.2-31.8 |
| 12.51975-12.52025 | 240-285 | 3345.8-3358 | 36.43-36.5 |
| 12.57675-12.57725 | 322-335.4 | 3600-4400 | (²) |
| 13.36-13.41 | | | |

Note: ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

²Above 38.6c

TEST SETUP AND PROCEDURE

Below 30 MHz

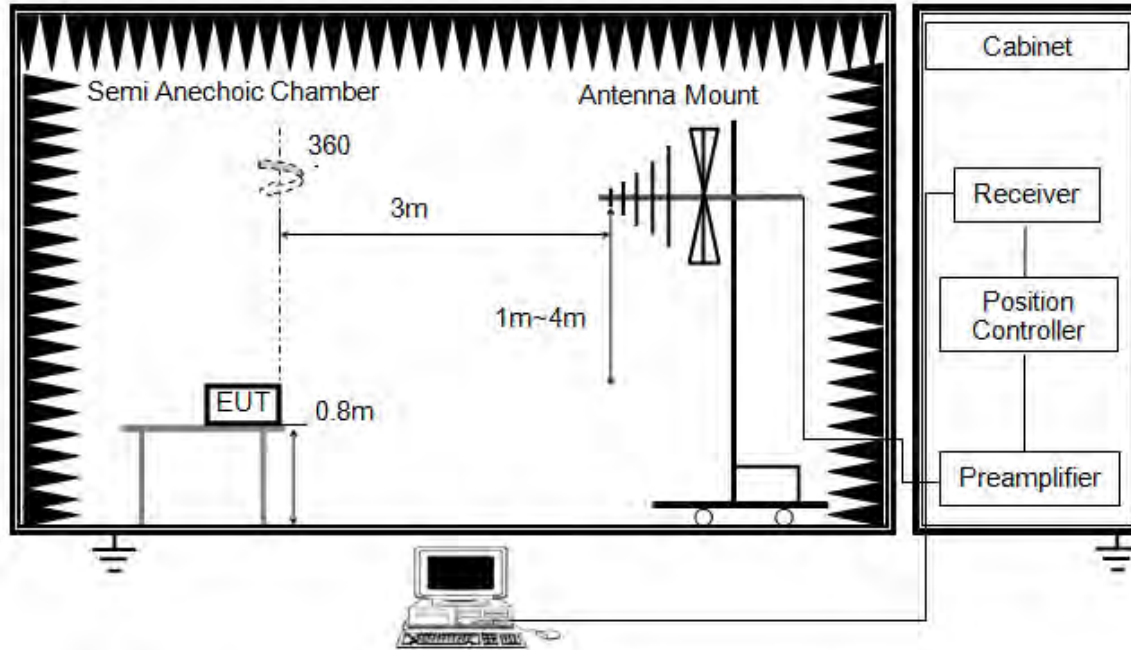


The setting of the spectrum analyser

| | |
|-------|--|
| RBW | 200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz) |
| VBW | 200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz) |
| Sweep | Auto |
| Trace | Max hold |

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.4.
2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.
5. The radiated emission limits 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.
6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.
7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.
8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω . For example, the measurement frequency X KHz resulted in a level of Y dBuV/m, which is equivalent to $Y-51.5 = Z$ dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.

Below 1 GHz and above 30 MHz

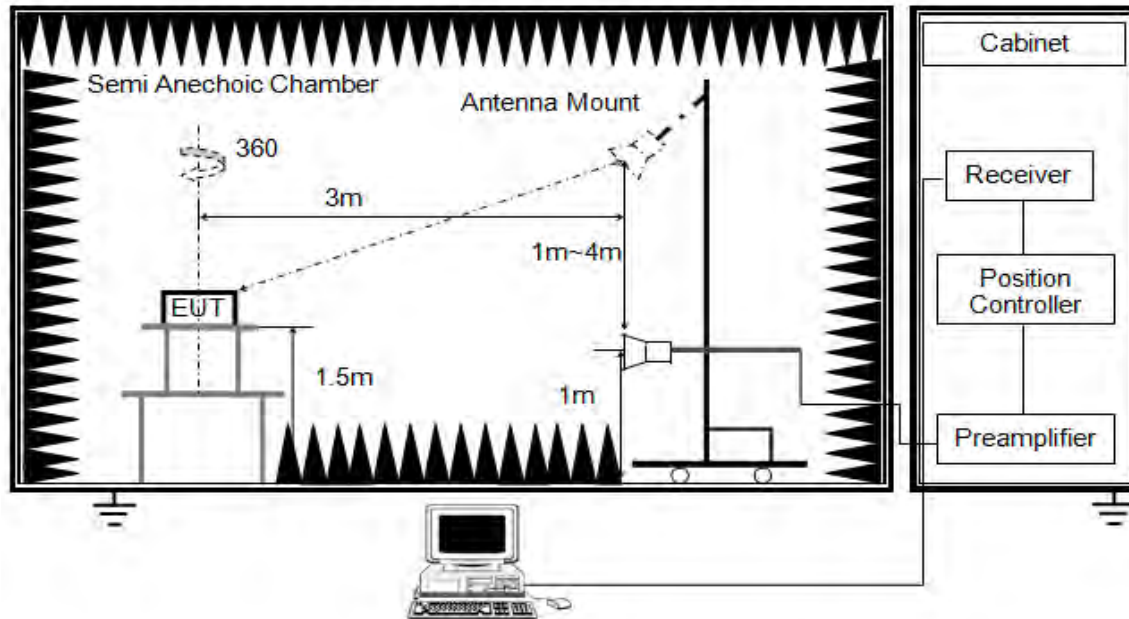


The setting of the spectrum analyser

| | |
|----------|----------|
| RBW | 120 kHz |
| VBW | 300 kHz |
| Sweep | Auto |
| Detector | Peak/QP |
| Trace | Max hold |

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.5.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

Above 1 GHz

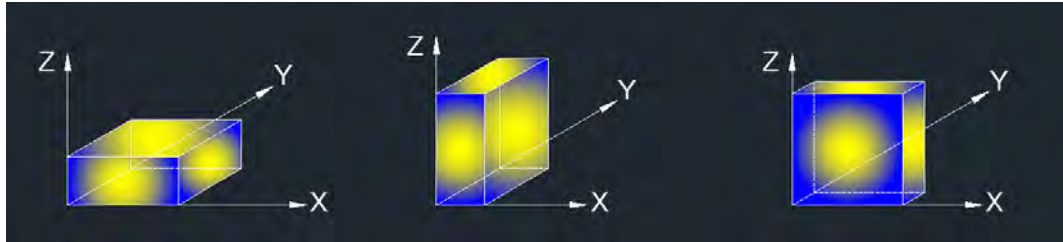


The setting of the spectrum analyser

| | |
|----------|--------------------------------|
| RBW | 1 MHz |
| VBW | PEAK: 3 MHz AVG: see note 6 |
| Sweep | Auto |
| Detector | Peak |
| Trace | Max hold |

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.6.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 1.5 m above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.
6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 7.1.ON TIME AND DUTY CYCLE.

X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

TEST ENVIRONMENT

| | | | |
|---------------------|---------|-------------------|----------------|
| Temperature | 26.2 °C | Relative Humidity | 52 % |
| Atmosphere Pressure | 101 kPa | Test Voltage | AC 120V, 60 HZ |

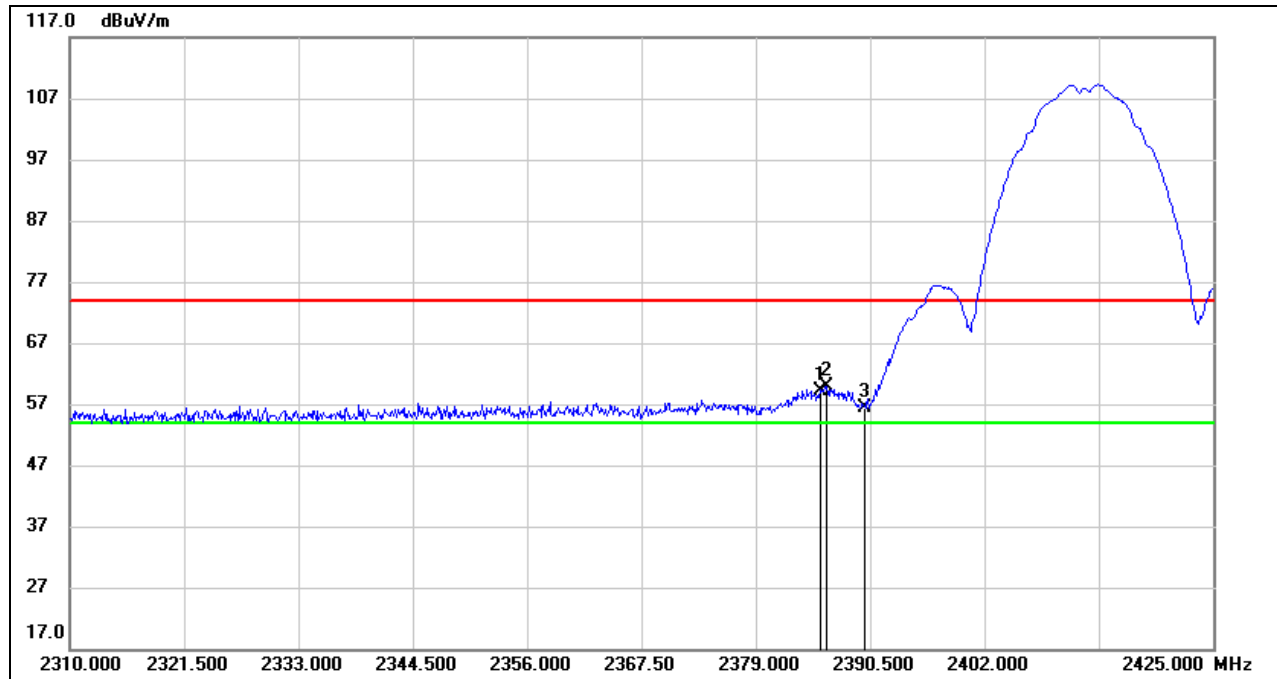
RESULTS

8.1. RESTRICTED BANDEDGE

8.1.1. 802.11b MODE

RESTRICTED BANDEDGE (CHANNEL 1, HORIZONTAL)

PEAK



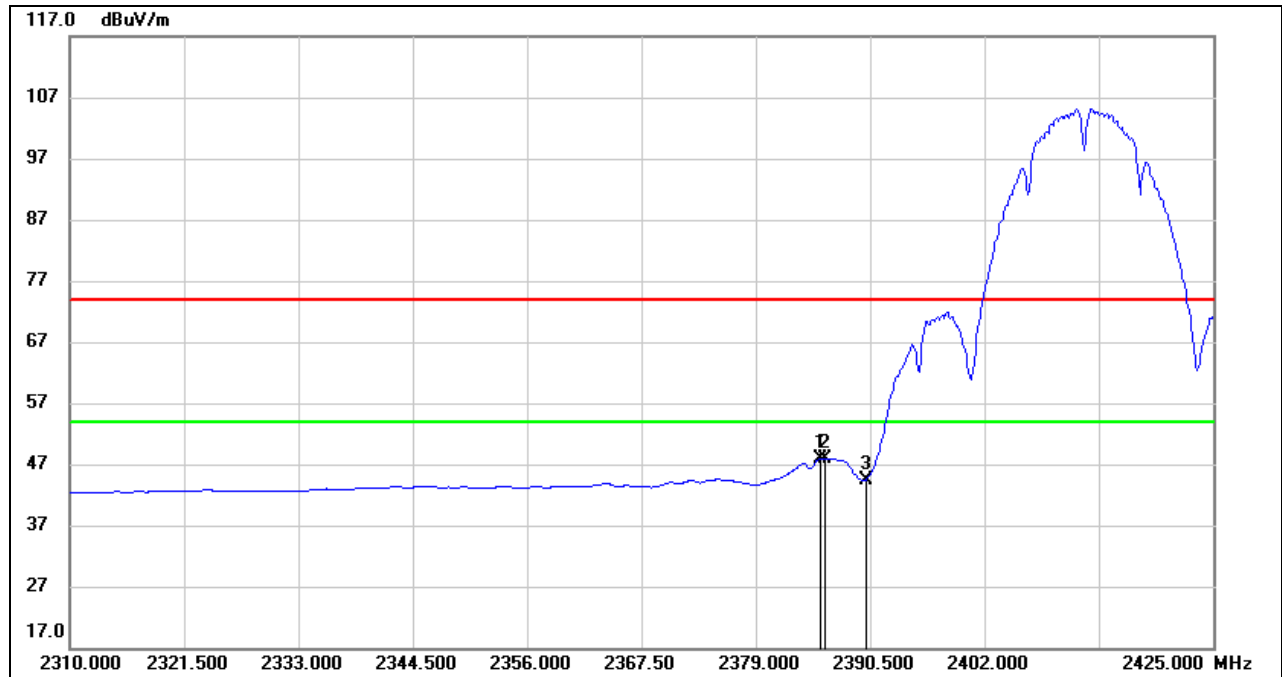
| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 2385.555 | 25.82 | 33.31 | 59.13 | 74.00 | -14.87 | peak |
| 2 | 2386.130 | 26.64 | 33.32 | 59.96 | 74.00 | -14.04 | peak |
| 3 | 2390.000 | 22.95 | 33.35 | 56.30 | 74.00 | -17.70 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.

2. Peak: Peak detector.

3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

AVG

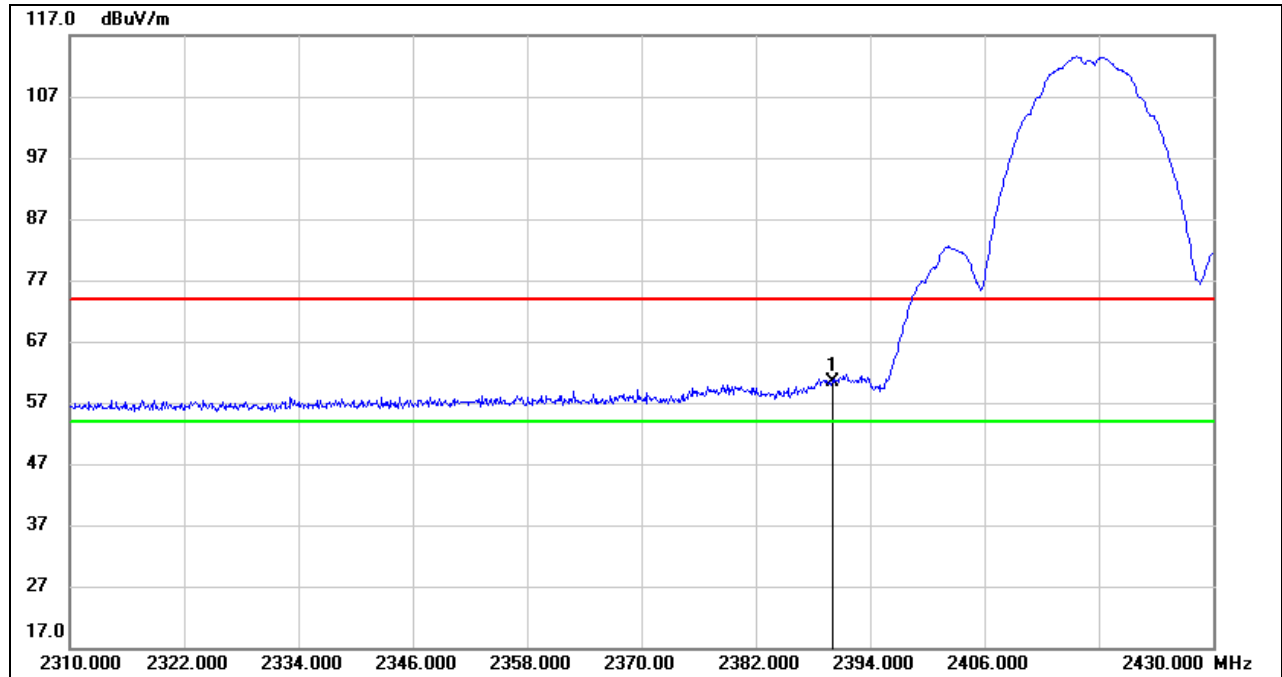


| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 2385.555 | 14.59 | 33.31 | 47.90 | 54.00 | -6.10 | AVG |
| 2 | 2386.130 | 14.46 | 33.32 | 47.78 | 54.00 | -6.22 | AVG |
| 3 | 2390.000 | 11.11 | 33.35 | 44.46 | 54.00 | -9.54 | AVG |

Note: 1. Measurement = Reading Level + Correct Factor.

2. Peak: Peak detector.

3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

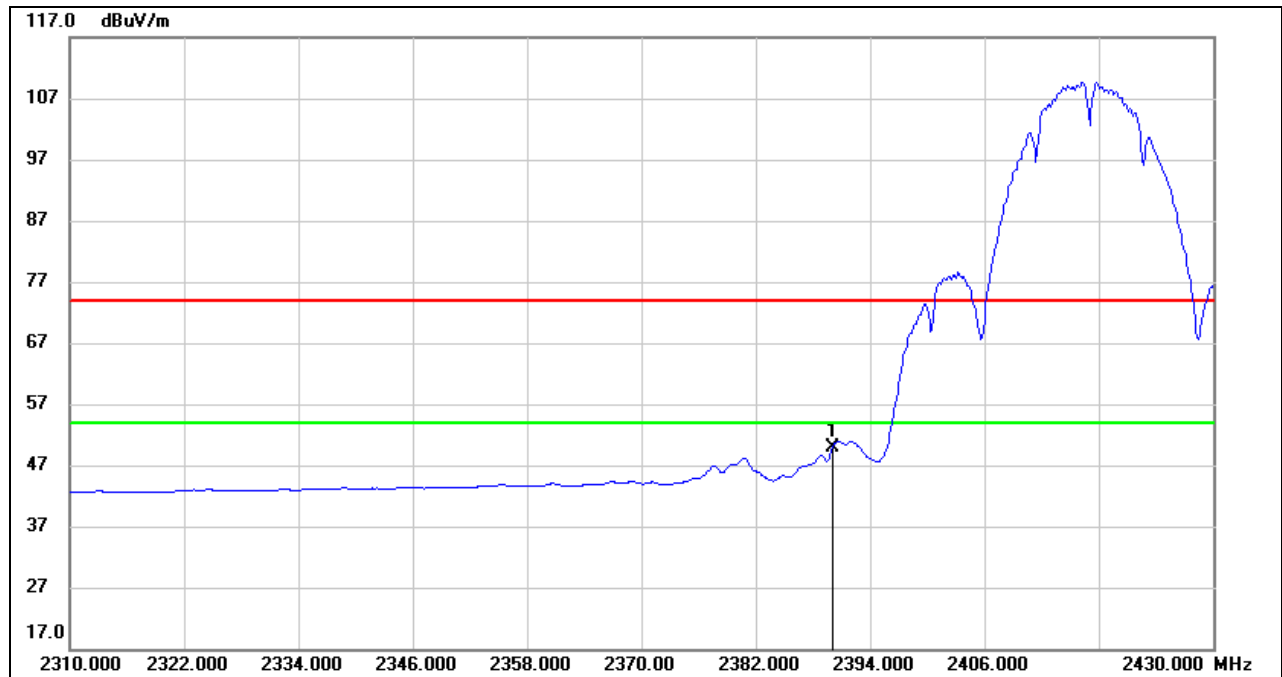
**RESTRICTED BANDEDGE (CHANNEL 2, HORIZONTAL)****PEAK**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 2390.000 | 26.95 | 33.35 | 60.30 | 74.00 | -13.70 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.

2. Peak: Peak detector.

3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

**AVG**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 2390.000 | 16.54 | 33.35 | 49.89 | 54.00 | -4.11 | AVG |

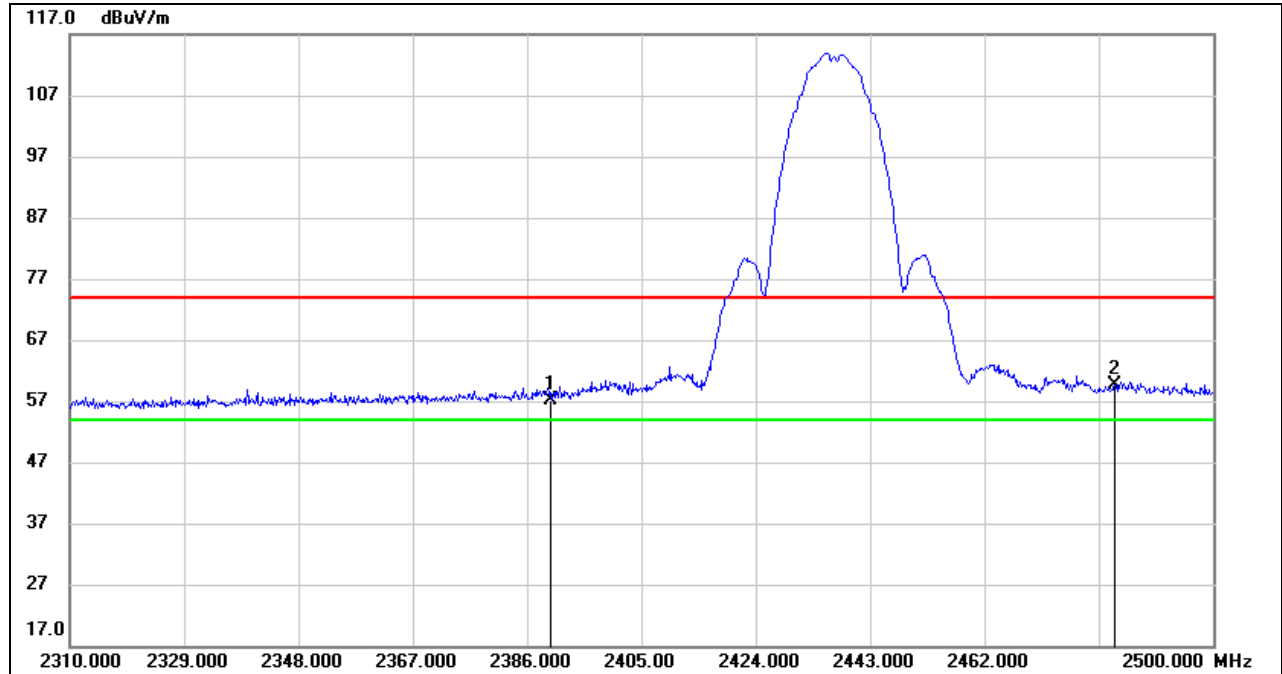
Note: 1. Measurement = Reading Level + Correct Factor.

2. Peak: Peak detector.

3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

RESTRICTED BANDEDGE (CHANNEL 6, HORIZONTAL)

PEAK

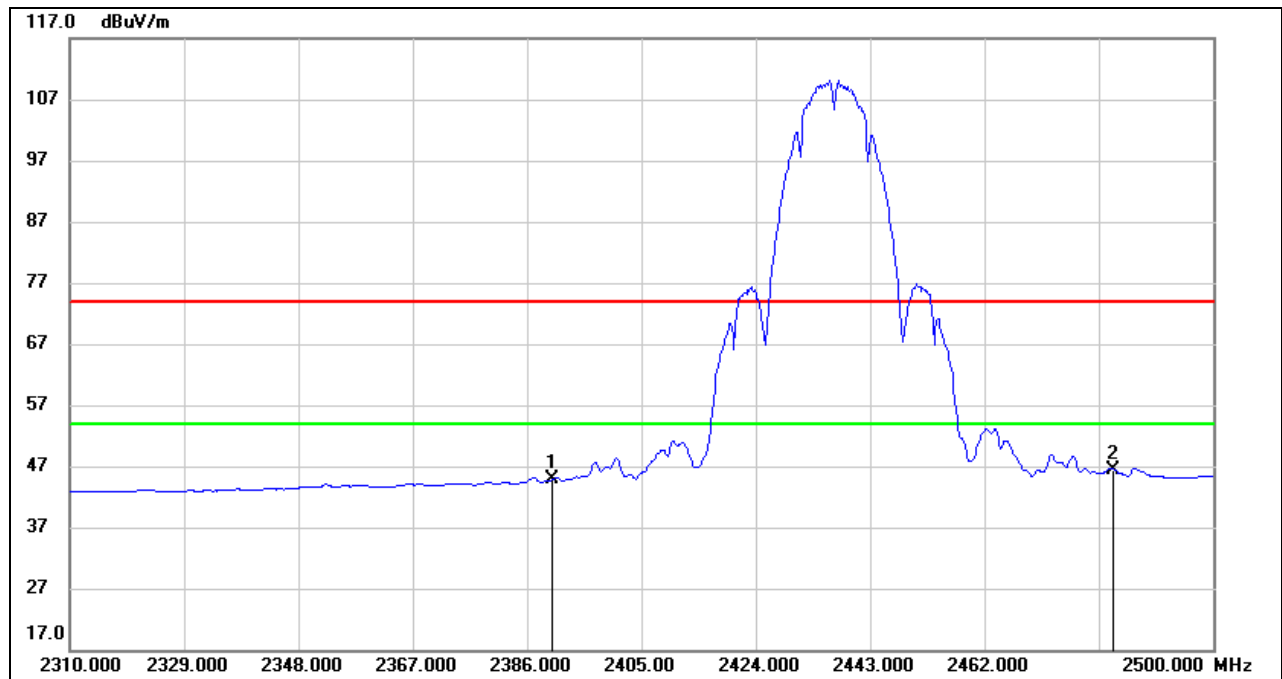


| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 2390.000 | 23.83 | 33.35 | 57.18 | 74.00 | -16.82 | peak |
| 2 | 2483.500 | 25.82 | 33.71 | 59.53 | 74.00 | -14.47 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.

2. Peak: Peak detector.

3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

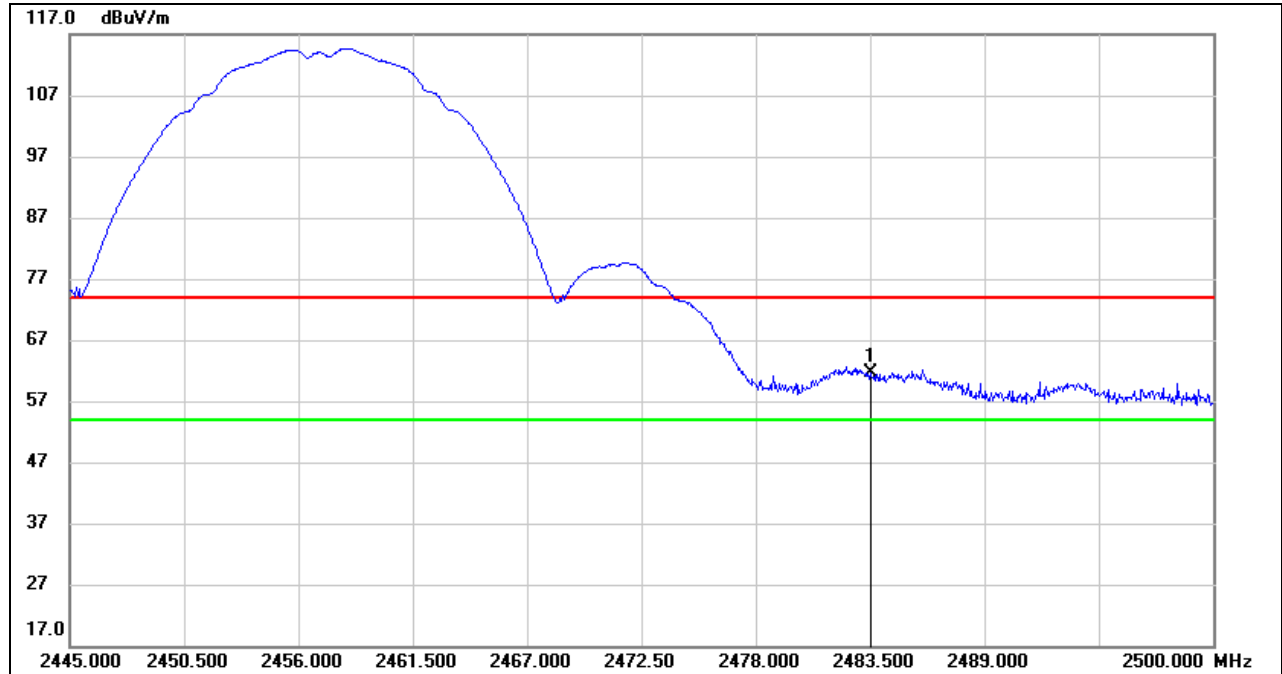
**AVG**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 2390.000 | 11.45 | 33.35 | 44.80 | 54.00 | -9.20 | AVG |
| 2 | 2483.500 | 12.77 | 33.71 | 46.48 | 54.00 | -7.52 | AVG |

Note: 1. Measurement = Reading Level + Correct Factor.

2. Peak: Peak detector.

3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

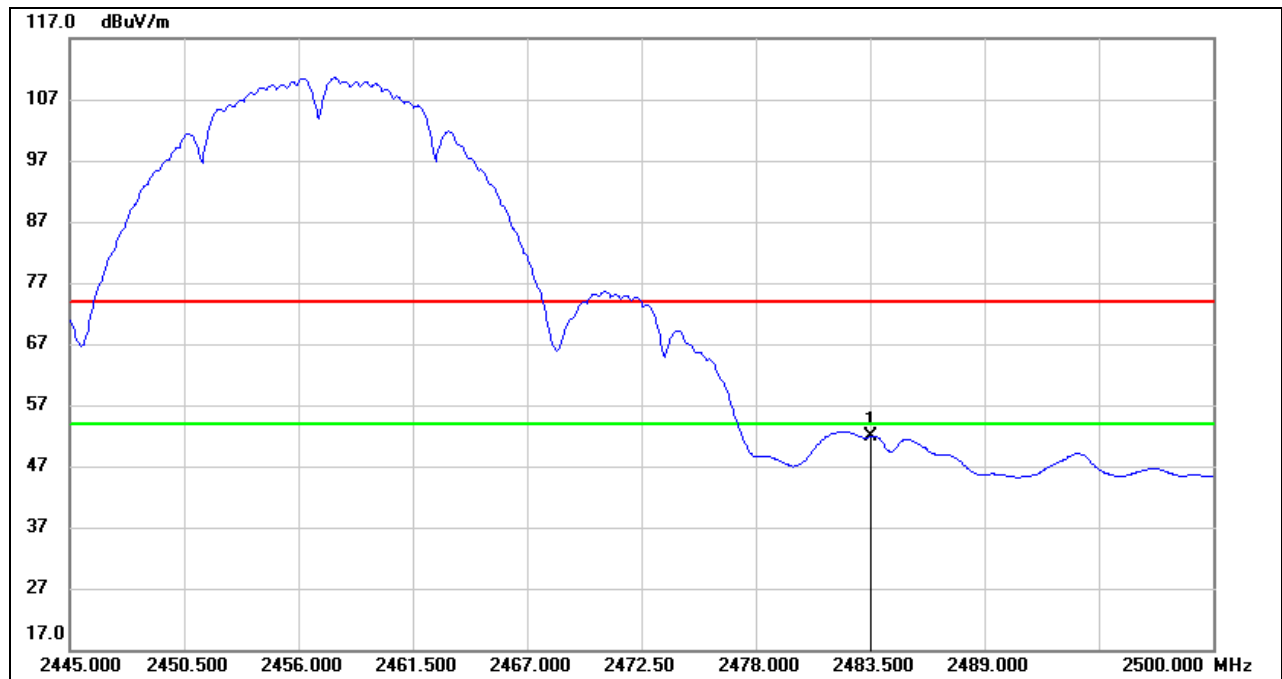
**RESTRICTED BANDEDGE (CHANNEL 10, HORIZONTAL)****PEAK**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 2483.500 | 27.95 | 33.71 | 61.66 | 74.00 | -12.34 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.

2. Peak: Peak detector.

3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

**AVG**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 2483.500 | 18.12 | 33.71 | 51.83 | 54.00 | -2.17 | AVG |

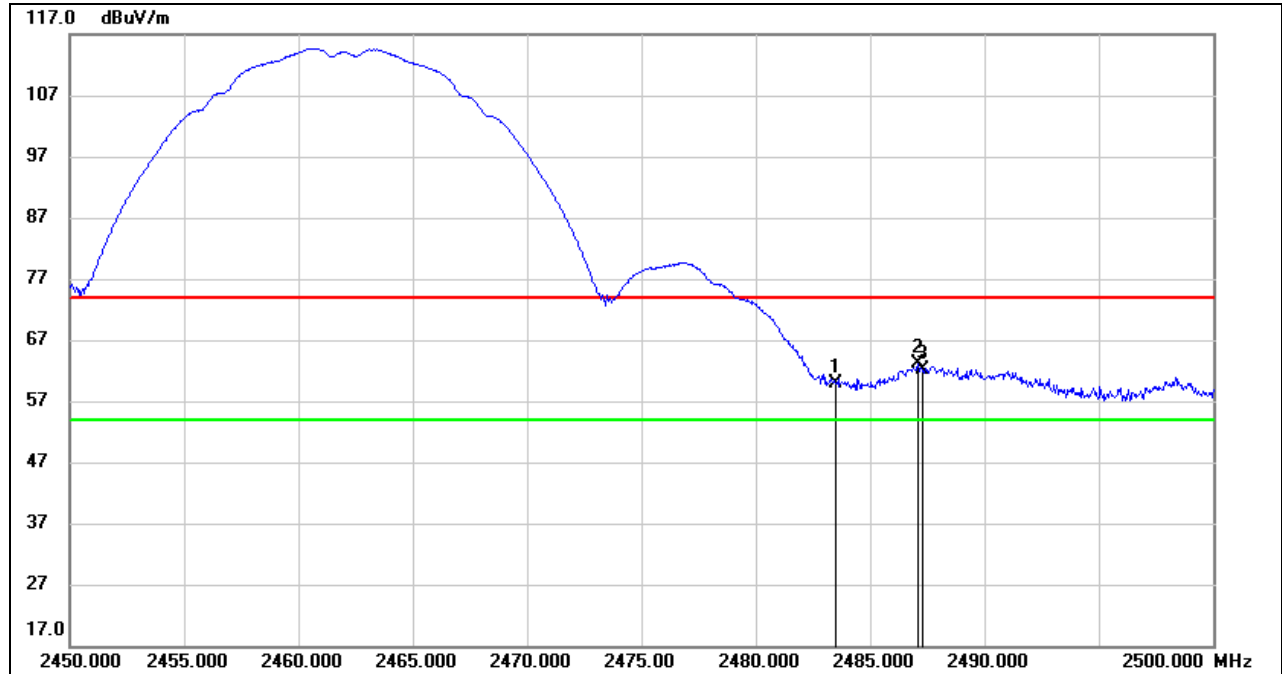
Note: 1. Measurement = Reading Level + Correct Factor.

2. Peak: Peak detector.

3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

RESTRICTED BANDEDGE (CHANNEL 11, HORIZONTAL)

PEAK

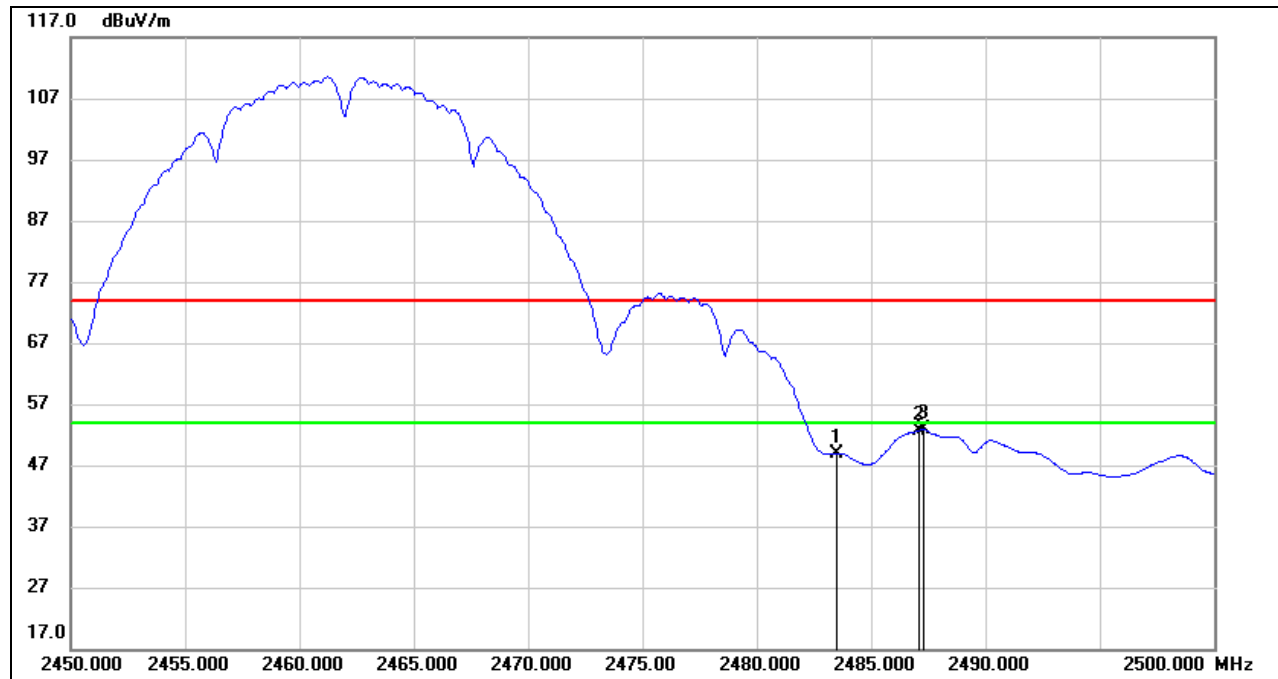


| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 2483.500 | 26.23 | 33.71 | 59.94 | 74.00 | -14.06 | peak |
| 2 | 2487.100 | 29.51 | 33.72 | 63.23 | 74.00 | -10.77 | peak |
| 3 | 2487.300 | 28.39 | 33.72 | 62.11 | 74.00 | -11.89 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.

2. Peak: Peak detector.

3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

**AVG**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 2483.500 | 15.27 | 33.71 | 48.98 | 54.00 | -5.02 | AVG |
| 2 | 2487.100 | 18.99 | 33.72 | 52.71 | 54.00 | -1.29 | AVG |
| 3 | 2487.300 | 19.05 | 33.72 | 52.77 | 54.00 | -1.23 | AVG |

Note: 1. Measurement = Reading Level + Correct Factor.

2. Peak: Peak detector.

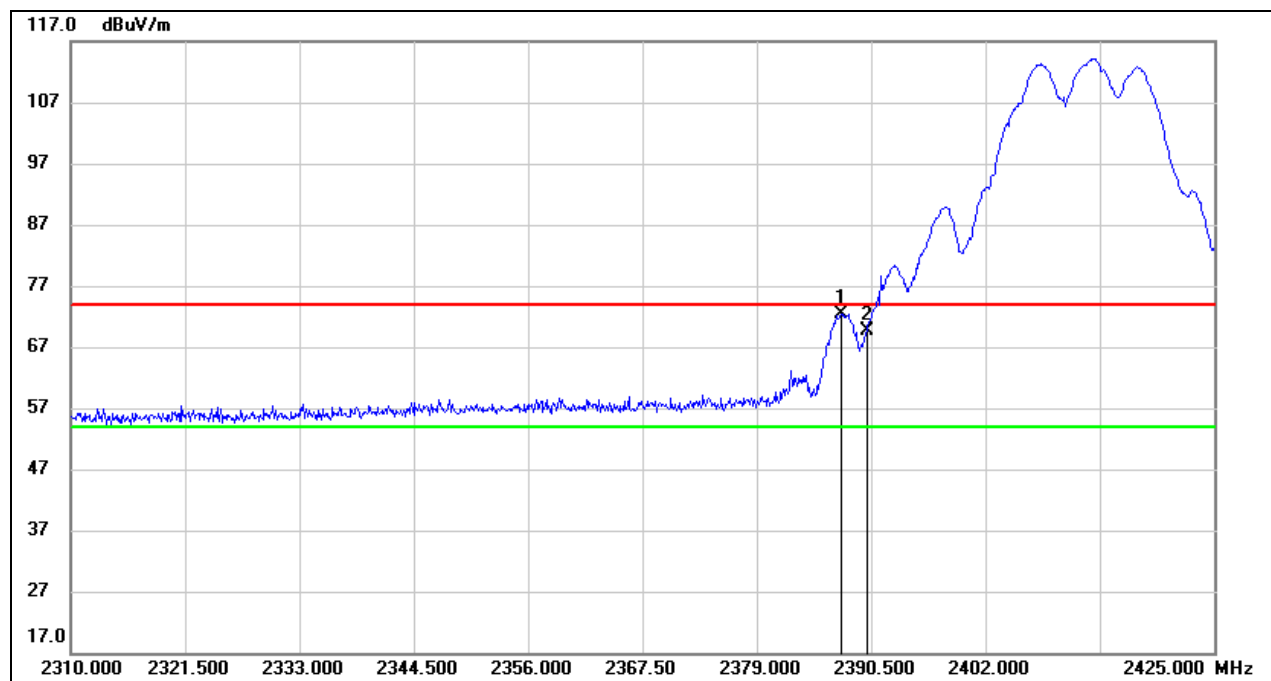
3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Note: Horizontal and Vertical have been tested, only the worst data was recorded in the report.

8.1.2. 802.11g MODE

RESTRICTED BANDEDGE (CHANNEL 1, HORIZONTAL)

PEAK

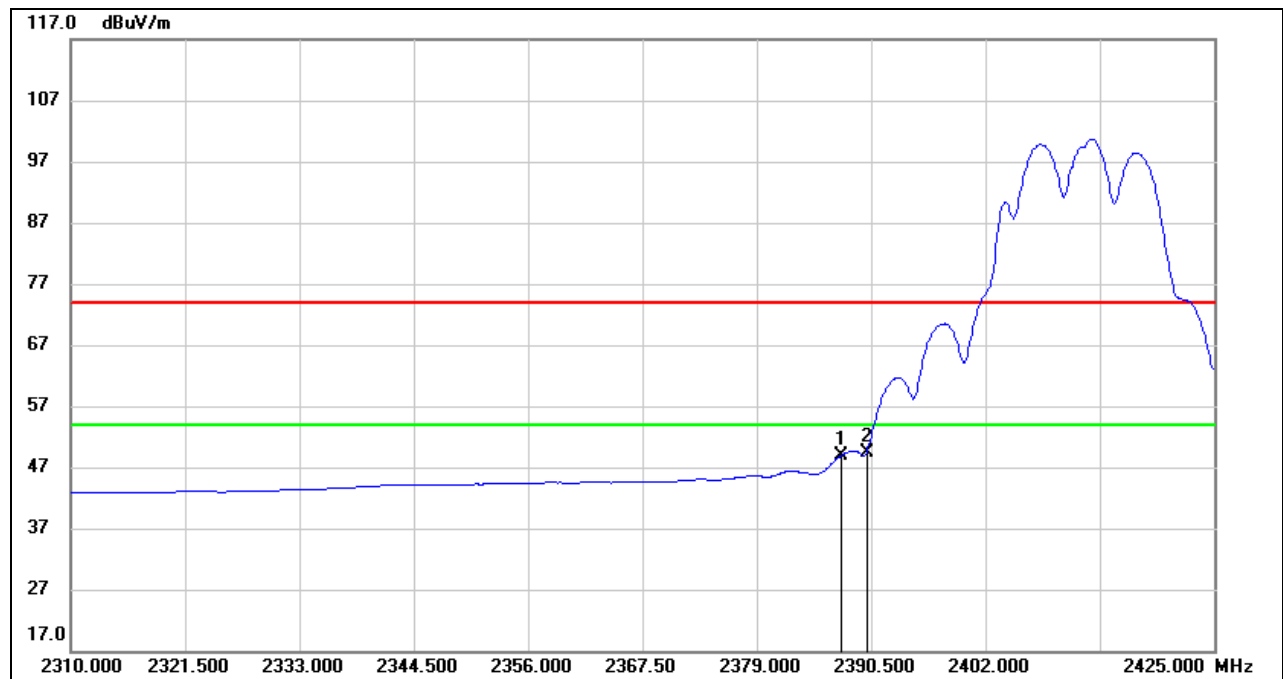


| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 2387.510 | 39.10 | 33.34 | 72.44 | 74.00 | -1.56 | peak |
| 2 | 2390.000 | 36.37 | 33.35 | 69.72 | 74.00 | -4.28 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.

2. Peak: Peak detector.

3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

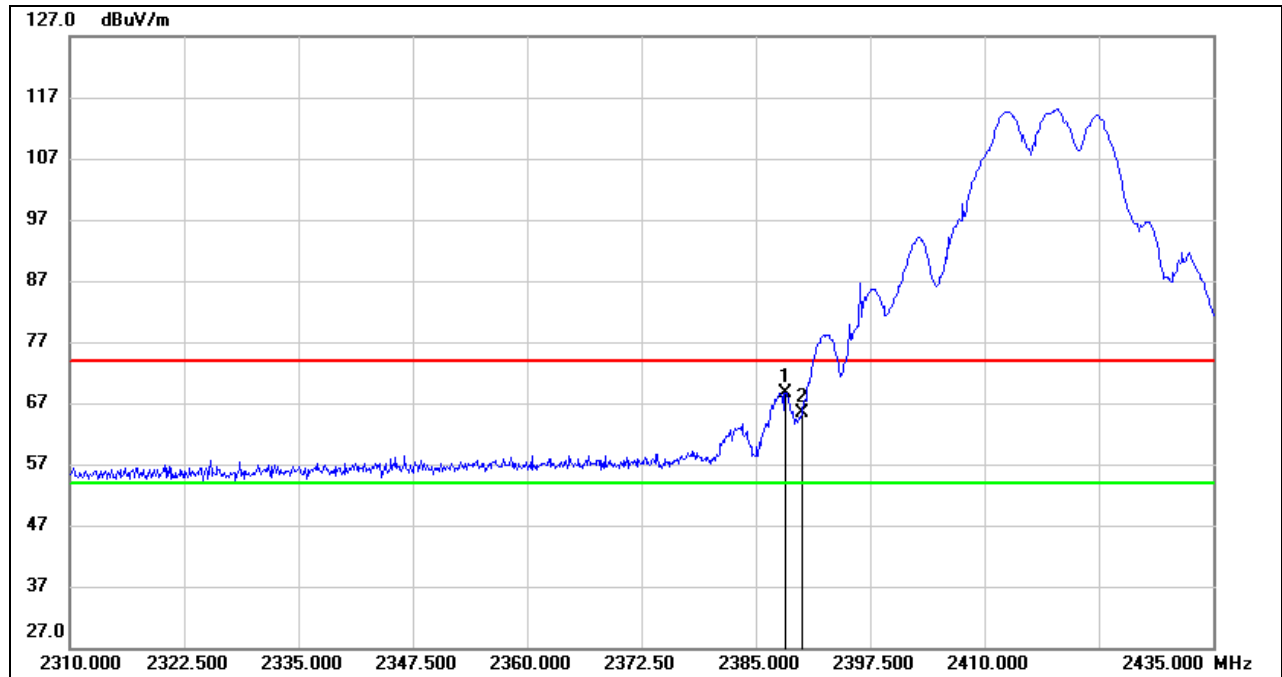
**AVG**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 2387.510 | 15.58 | 33.34 | 48.92 | 54.00 | -5.08 | AVG |
| 2 | 2390.000 | 16.13 | 33.35 | 49.48 | 54.00 | -4.52 | AVG |

Note: 1. Measurement = Reading Level + Correct Factor.

2. Peak: Peak detector.

3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

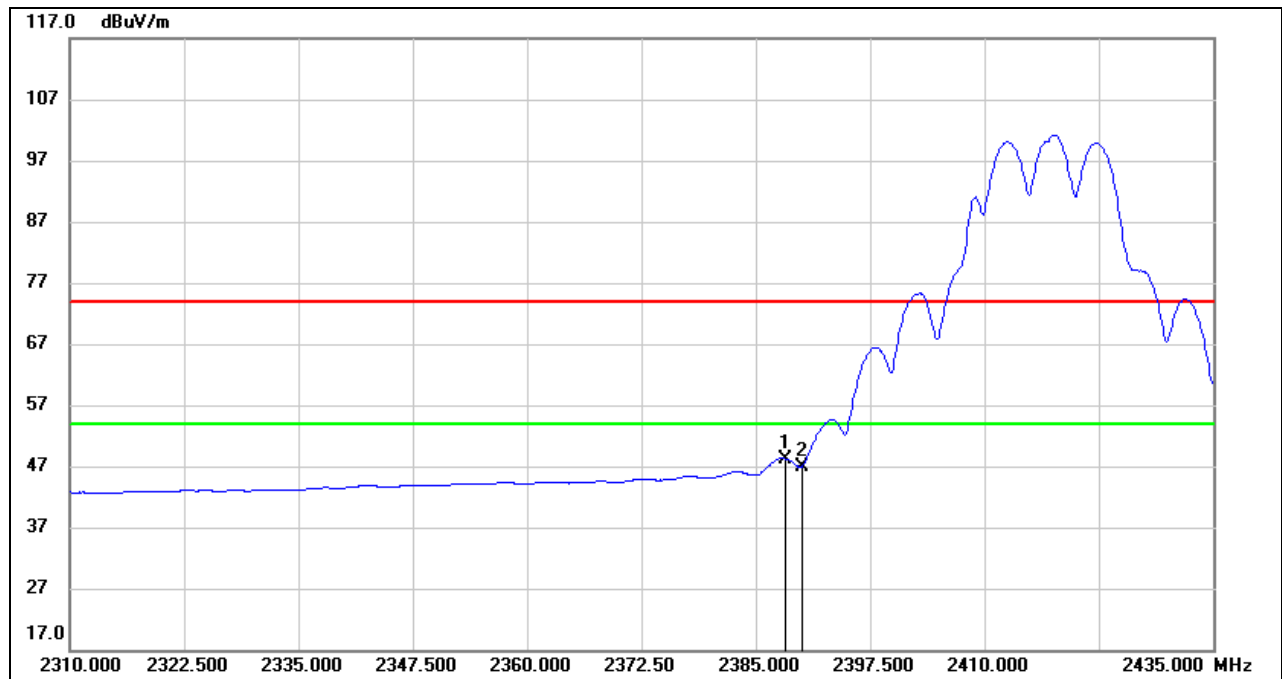
**RESTRICTED BANDEDGE (CHANNEL 2, HORIZONTAL)****PEAK**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 2388.250 | 35.29 | 33.34 | 68.63 | 74.00 | -5.37 | peak |
| 2 | 2390.000 | 32.11 | 33.35 | 65.46 | 74.00 | -8.54 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.

2. Peak: Peak detector.

3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

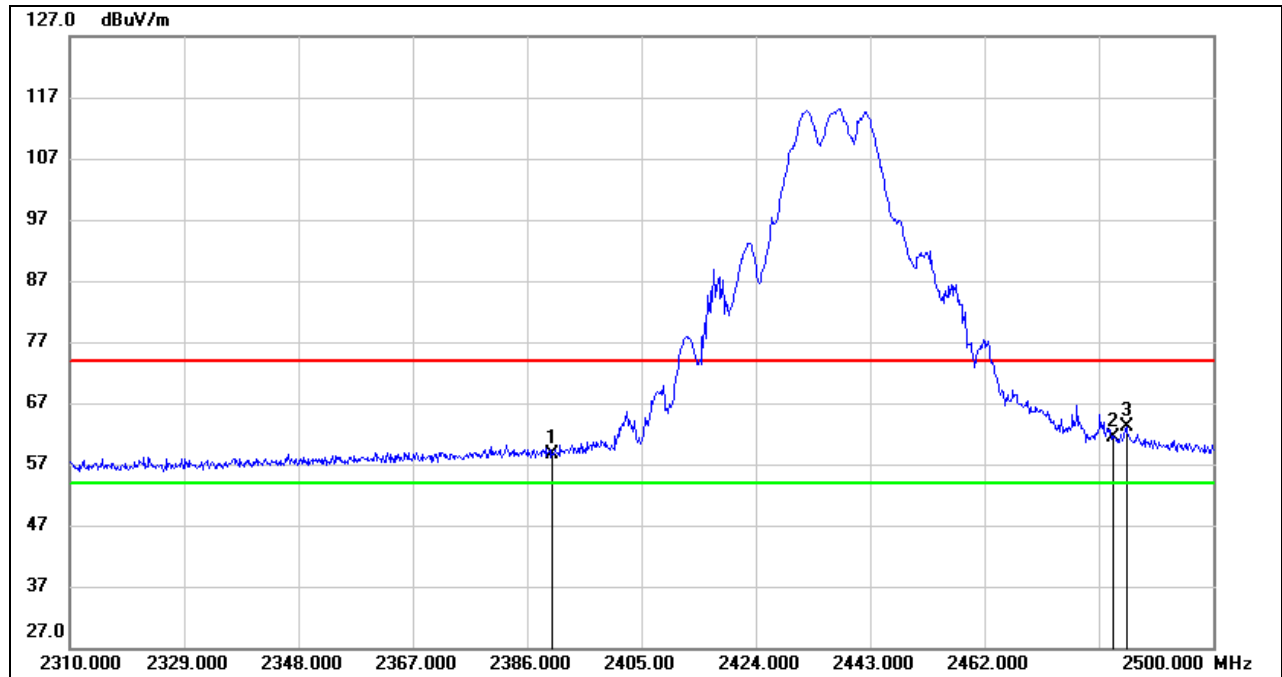
**AVG**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 2388.250 | 14.86 | 33.34 | 48.20 | 54.00 | -5.80 | AVG |
| 2 | 2390.000 | 13.59 | 33.35 | 46.94 | 54.00 | -7.06 | AVG |

Note: 1. Measurement = Reading Level + Correct Factor.

2. Peak: Peak detector.

3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

**RESTRICTED BANDEDGE (CHANNEL 6, HORIZONTAL)****PEAK**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 2390.000 | 25.21 | 33.35 | 58.56 | 74.00 | -15.44 | peak |
| 2 | 2483.500 | 27.73 | 33.71 | 61.44 | 74.00 | -12.56 | peak |
| 3 | 2485.560 | 29.45 | 33.71 | 63.16 | 74.00 | -10.84 | peak |

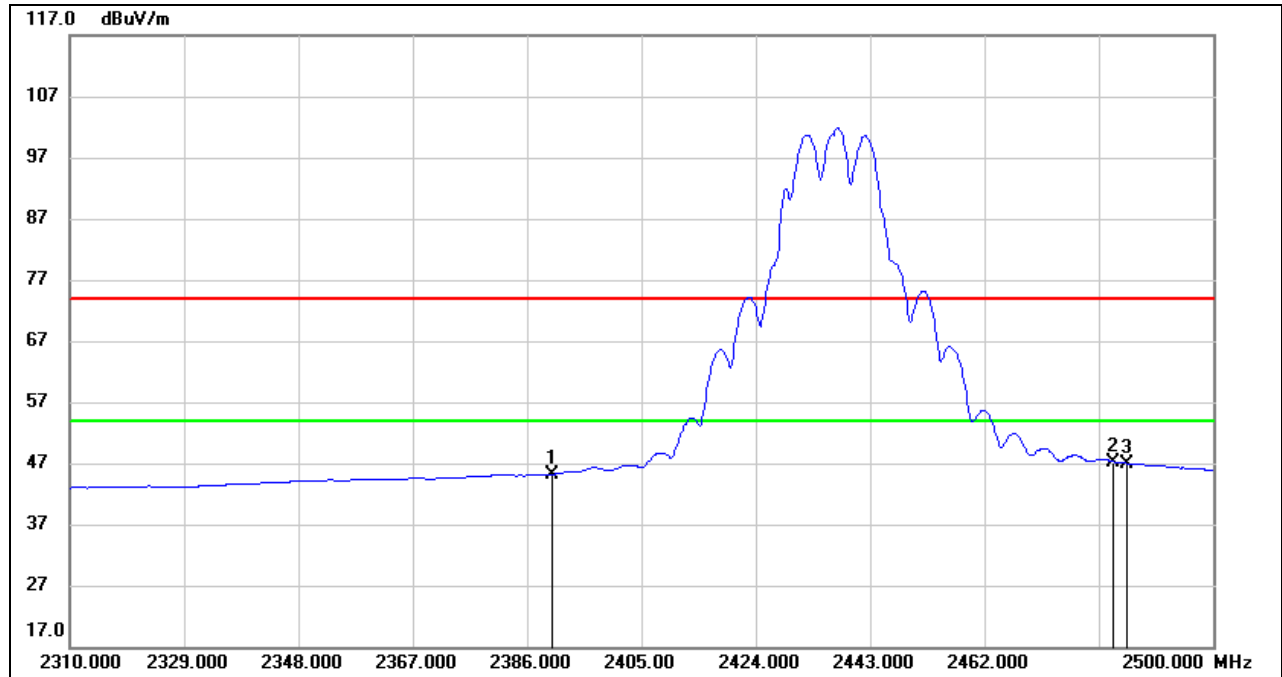
Note: 1. Measurement = Reading Level + Correct Factor.

2. Peak: Peak detector.

3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

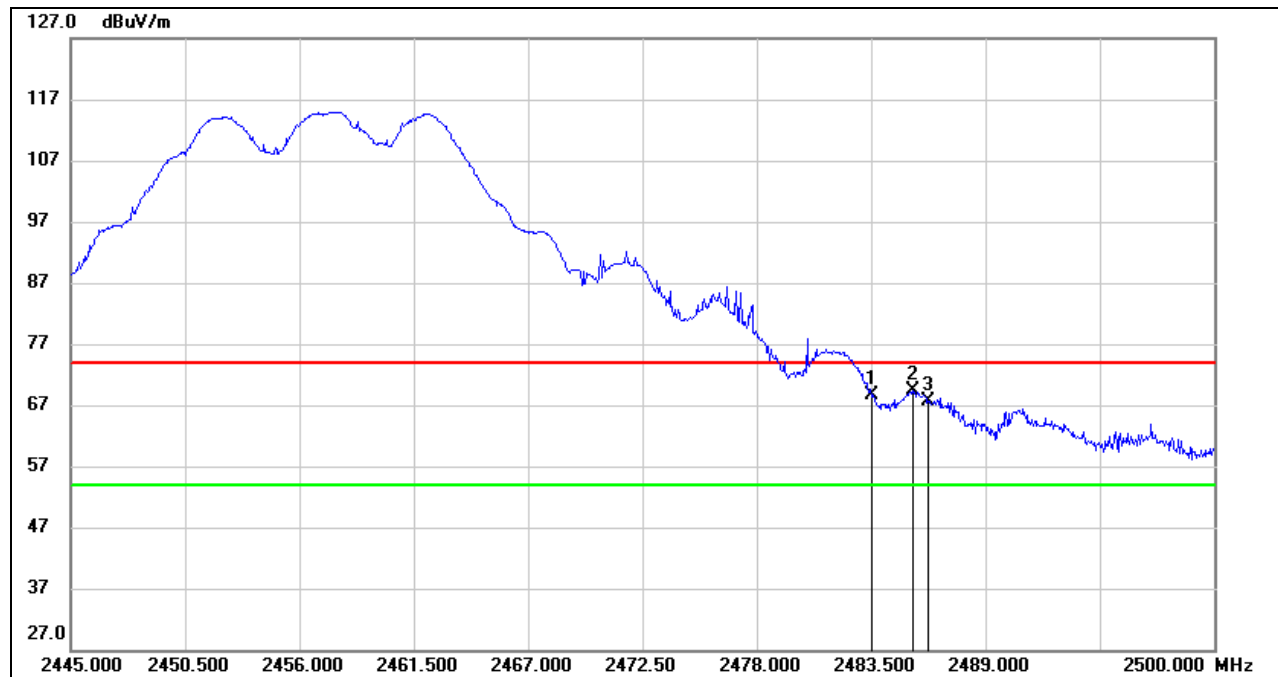


AVG



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 2390.000 | 11.87 | 33.35 | 45.22 | 54.00 | -8.78 | AVG |
| 2 | 2483.500 | 13.53 | 33.71 | 47.24 | 54.00 | -6.76 | AVG |
| 3 | 2485.560 | 13.21 | 33.71 | 46.92 | 54.00 | -7.08 | AVG |

Note: 1. Measurement = Reading Level + Correct Factor.
2. Peak: Peak detector.
3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

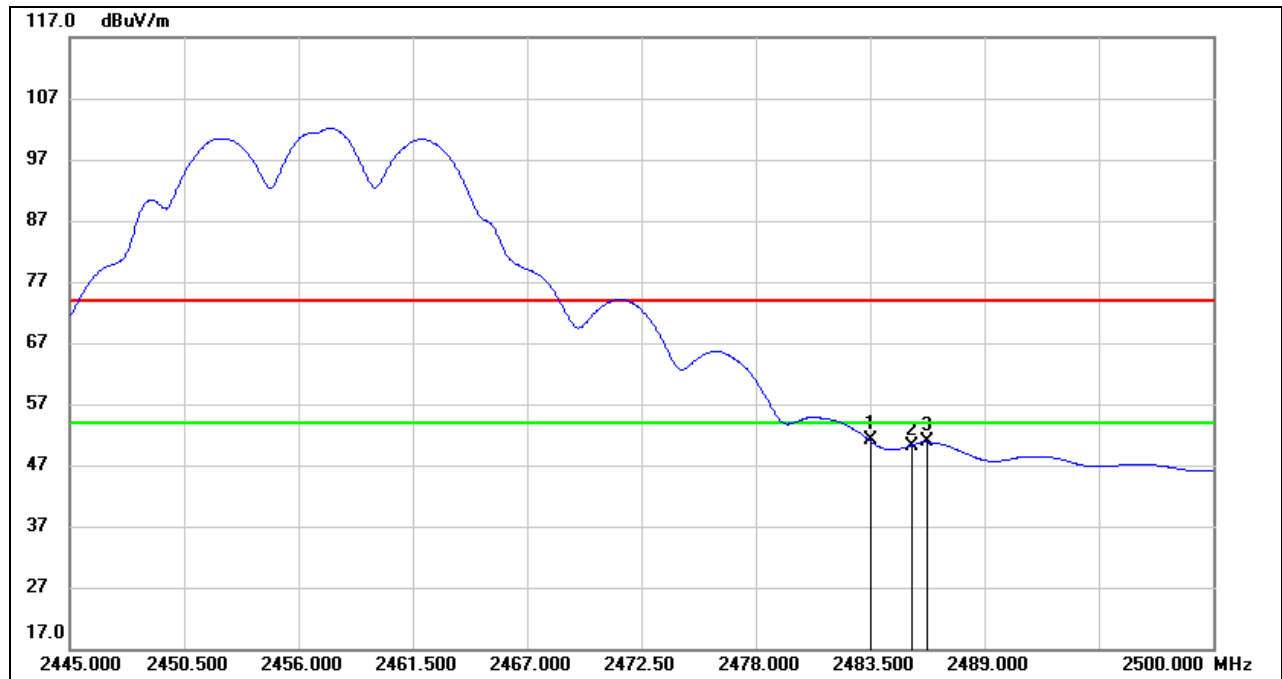
**RESTRICTED BANDEDGE (CHANNEL 10, HORIZONTAL)****PEAK**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 2483.500 | 34.84 | 33.71 | 68.55 | 74.00 | -5.45 | peak |
| 2 | 2485.480 | 35.65 | 33.71 | 69.36 | 74.00 | -4.64 | peak |
| 3 | 2486.250 | 33.87 | 33.72 | 67.59 | 74.00 | -6.41 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.

2. Peak: Peak detector.

3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

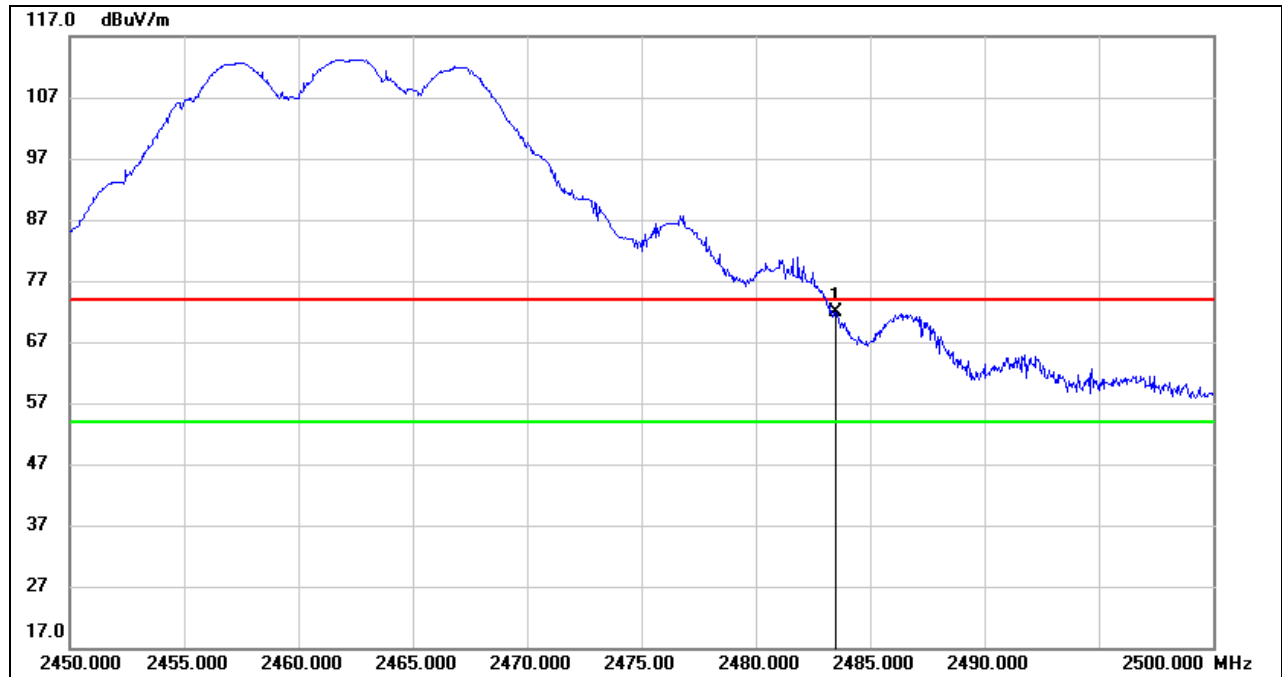
AVG

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1 | 2483.500 | 17.32 | 33.71 | 51.03 | 54.00 | -2.97 | AVG |
| 2 | 2485.480 | 16.54 | 33.71 | 50.25 | 54.00 | -3.75 | AVG |
| 3 | 2486.250 | 17.16 | 33.72 | 50.88 | 54.00 | -3.12 | AVG |

Note: 1. Measurement = Reading Level + Correct Factor.

2. Peak: Peak detector.

3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

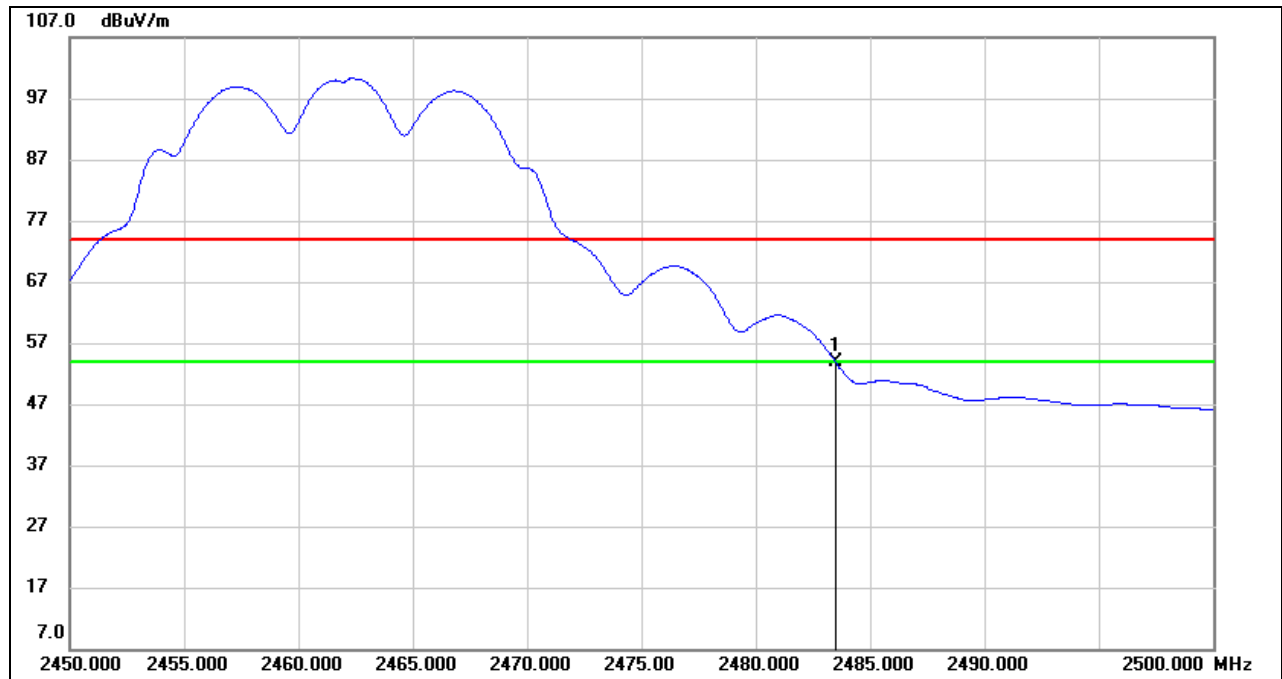
**RESTRICTED BANDEDGE (CHANNEL 11, HORIZONTAL)****PEAK**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 2483.500 | 38.05 | 33.71 | 71.76 | 74.00 | -2.24 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.

2. Peak: Peak detector.

3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

**AVG**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 2483.500 | 20.08 | 33.71 | 53.79 | 54.00 | -0.21 | AVG |

Note: 1. Measurement = Reading Level + Correct Factor.

2. Peak: Peak detector.

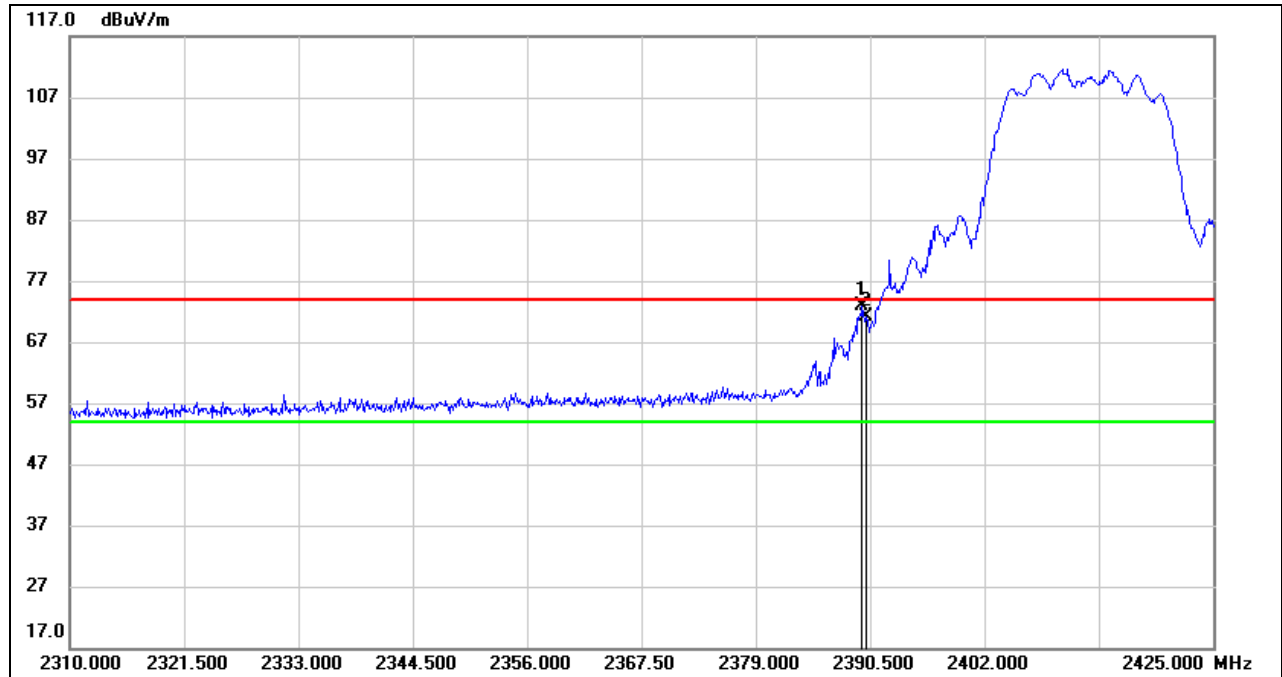
3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Note: Horizontal and Vertical have been tested, only the worst data was recorded in the report.

8.1.3. 802.11n HT20 MODE

RESTRICTED BANDEDGE (CHANNEL 1, HORIZONTAL)

PEAK

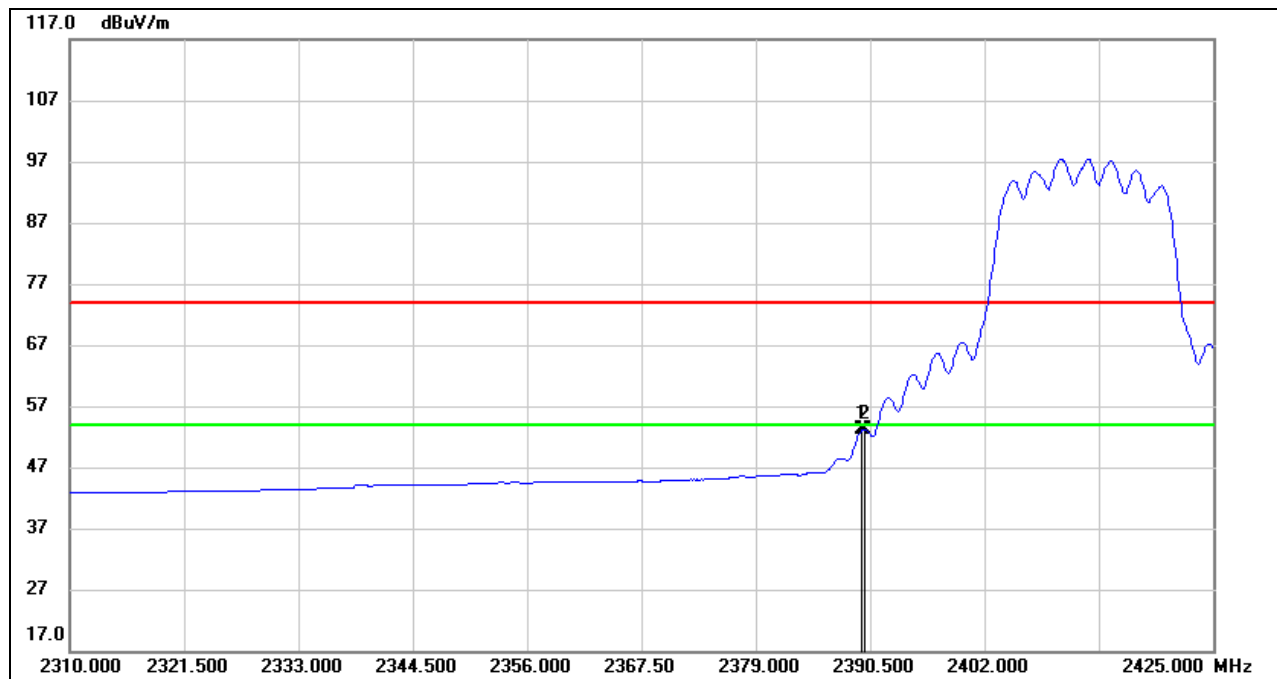


| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 2389.695 | 39.46 | 33.35 | 72.81 | 74.00 | -1.19 | peak |
| 2 | 2390.000 | 37.71 | 33.35 | 71.06 | 74.00 | -2.94 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.

2. Peak: Peak detector.

3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

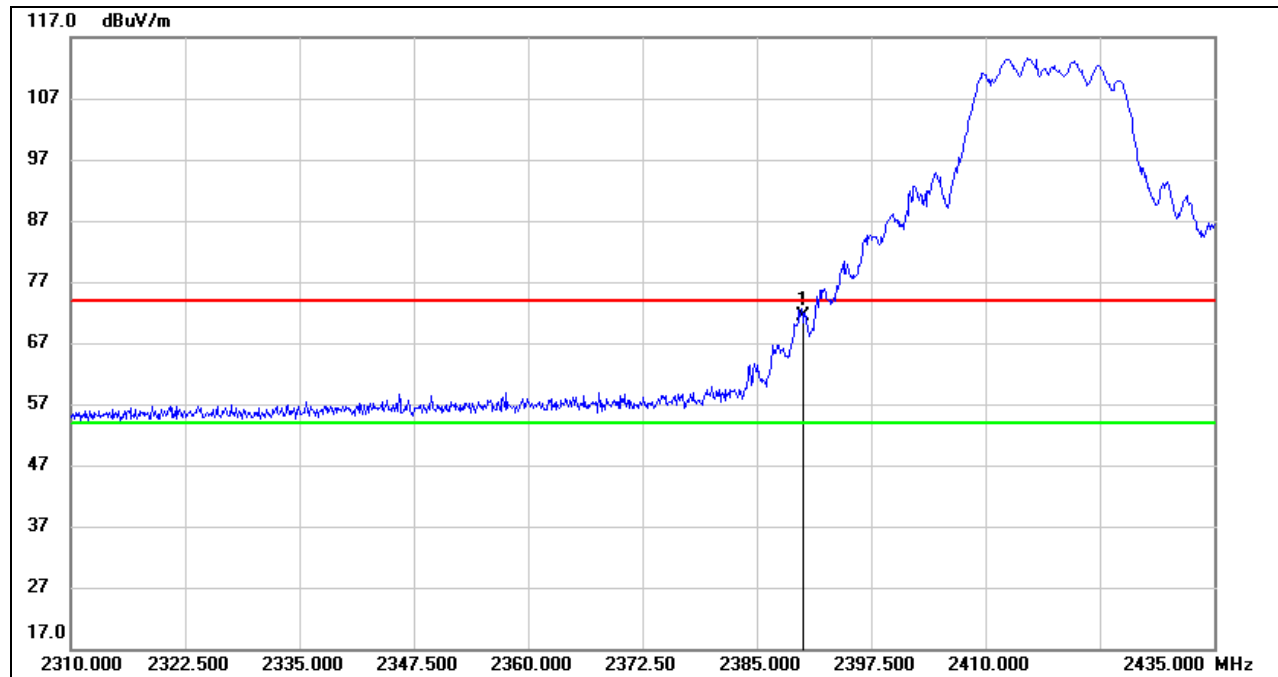
**AVG**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 2389.695 | 19.76 | 33.35 | 53.11 | 54.00 | -0.89 | AVG |
| 2 | 2390.000 | 19.81 | 33.35 | 53.16 | 54.00 | -0.84 | AVG |

Note: 1. Measurement = Reading Level + Correct Factor.

2. Peak: Peak detector.

3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

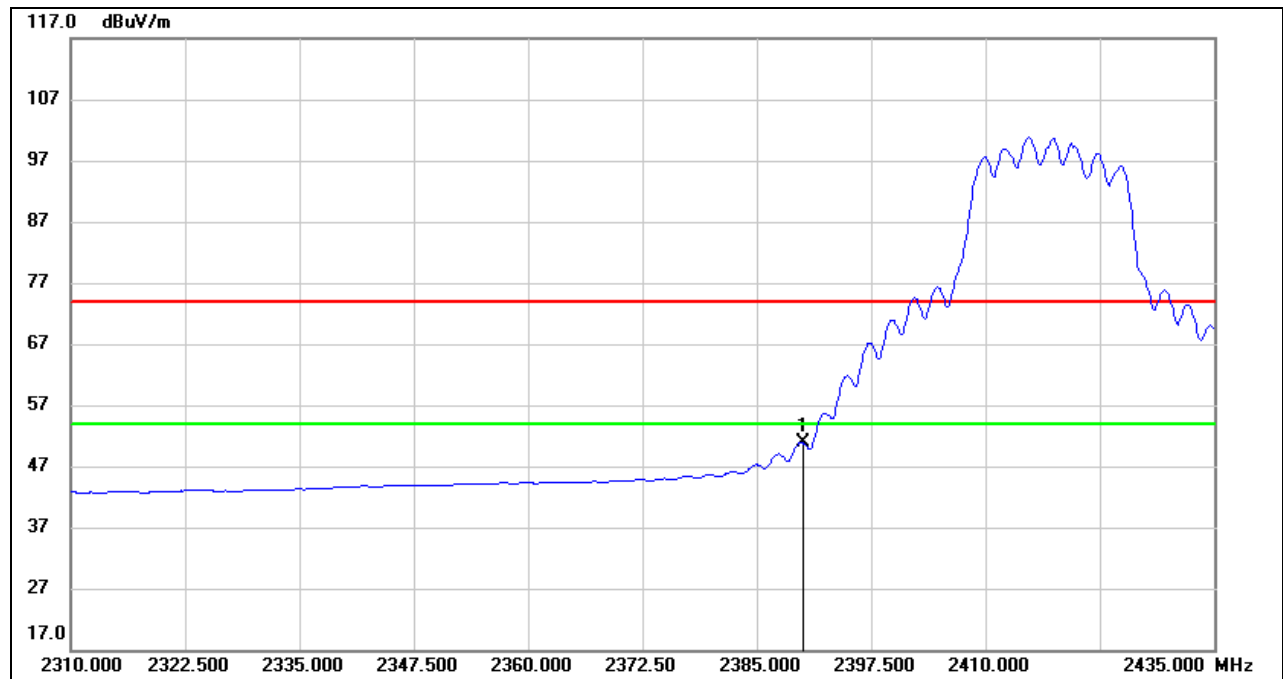
**RESTRICTED BANDEDGE (CHANNEL 2, HORIZONTAL)****PEAK**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 2390.000 | 38.06 | 33.35 | 71.41 | 74.00 | -2.59 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.

2. Peak: Peak detector.

3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

**AVG**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 2390.000 | 17.52 | 33.35 | 50.87 | 54.00 | -3.13 | AVG |

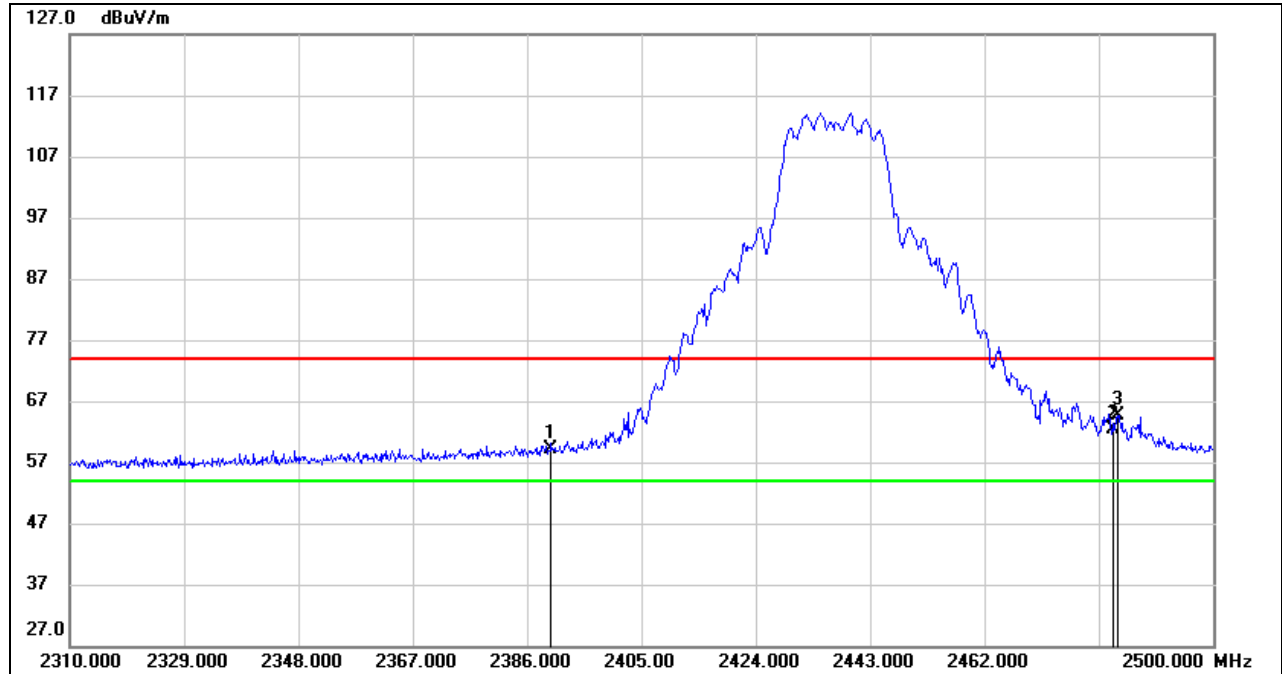
Note: 1. Measurement = Reading Level + Correct Factor.

2. Peak: Peak detector.

3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

RESTRICTED BANDEDGE (CHANNEL 6, HORIZONTAL)

PEAK



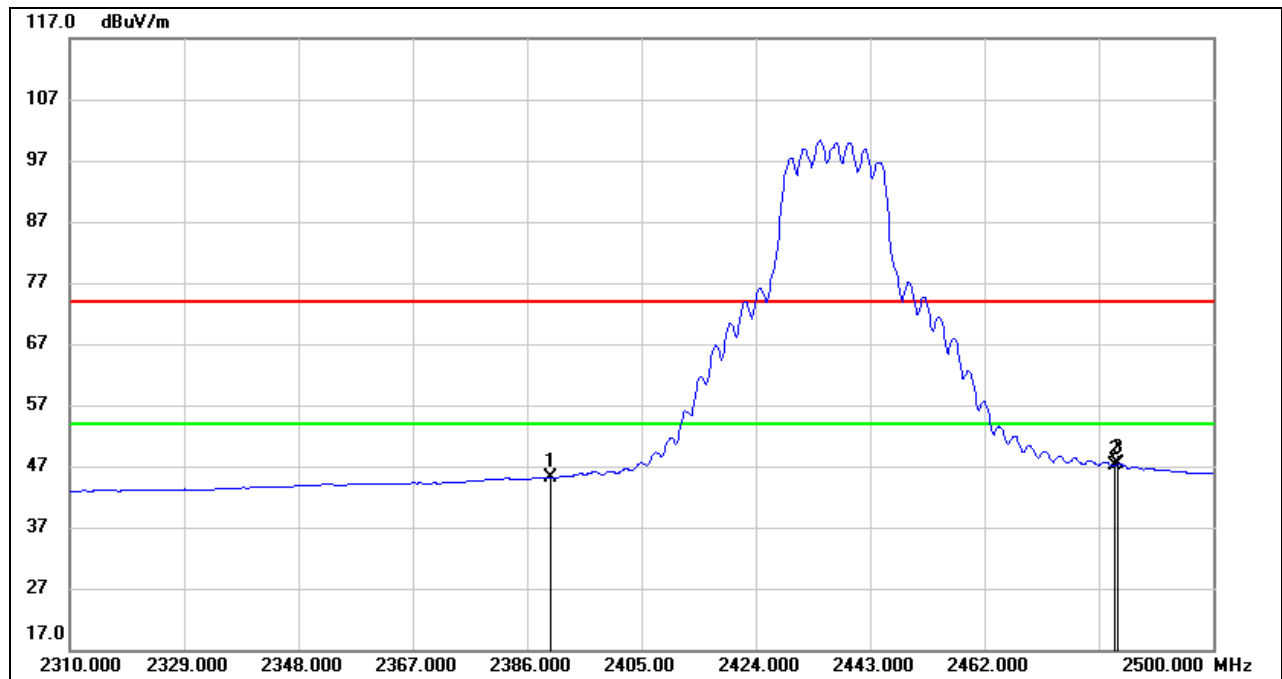
| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 2390.000 | 25.74 | 33.35 | 59.09 | 74.00 | -14.91 | peak |
| 2 | 2483.500 | 28.62 | 33.71 | 62.33 | 74.00 | -11.67 | peak |
| 3 | 2484.040 | 31.01 | 33.71 | 64.72 | 74.00 | -9.28 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.

2. Peak: Peak detector.

3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

AVG

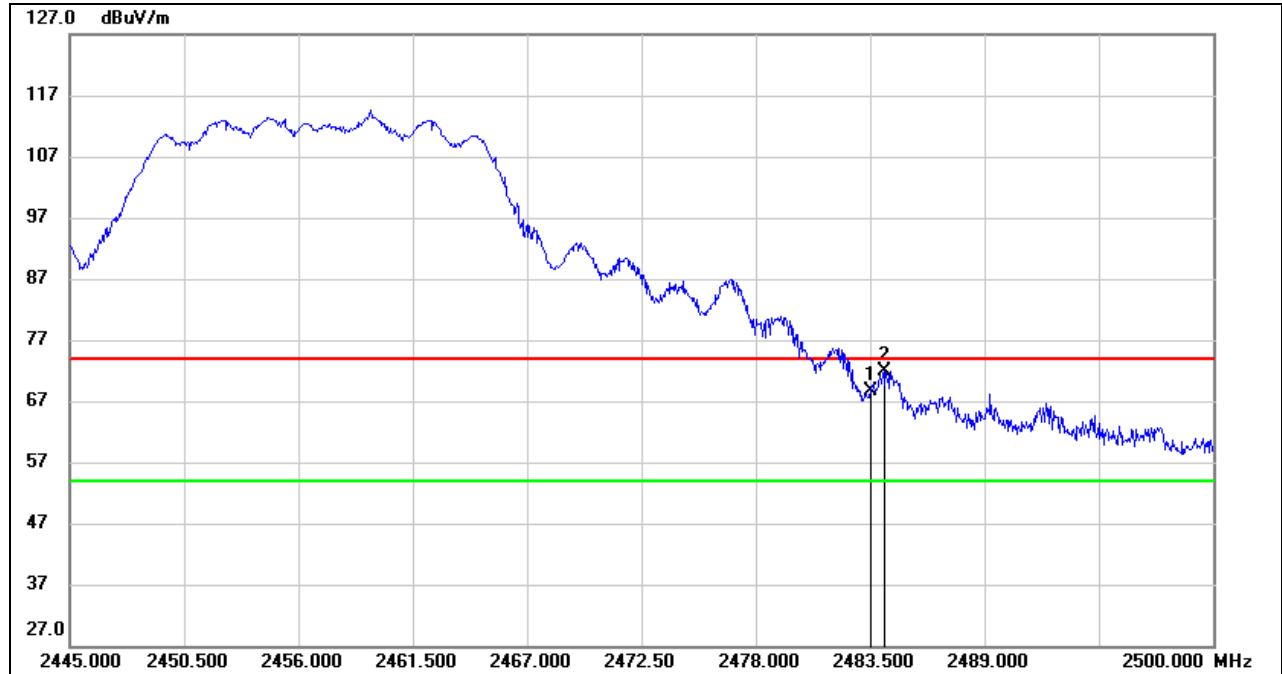


| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1 | 2390.000 | 11.87 | 33.35 | 45.22 | 54.00 | -8.78 | AVG |
| 2 | 2483.500 | 13.42 | 33.71 | 47.13 | 54.00 | -6.87 | AVG |
| 3 | 2484.040 | 13.60 | 33.71 | 47.31 | 54.00 | -6.69 | AVG |

Note: 1. Measurement = Reading Level + Correct Factor.

2. Peak: Peak detector.

3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

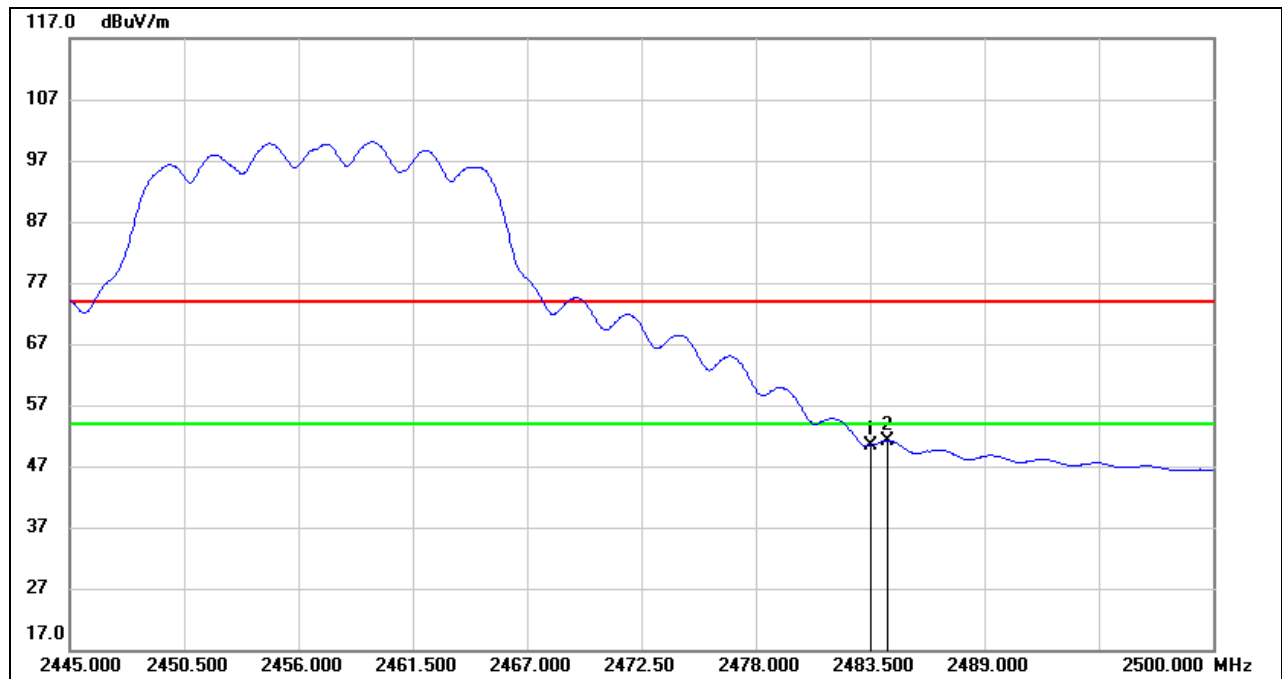
**RESTRICTED BANDEDGE (CHANNEL 10, HORIZONTAL)****PEAK**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 2483.500 | 34.83 | 33.71 | 68.54 | 74.00 | -5.46 | peak |
| 2 | 2484.160 | 38.27 | 33.71 | 71.98 | 74.00 | -2.02 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.

2. Peak: Peak detector.

3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

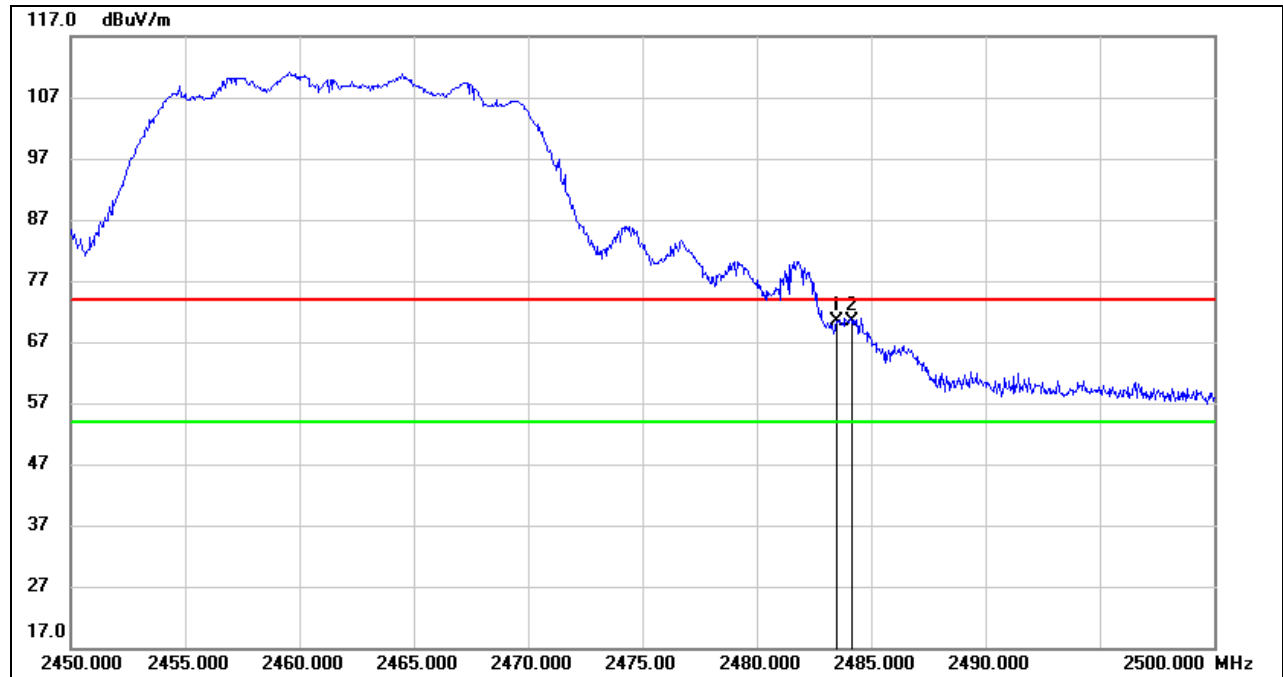
AVG

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 2483.500 | 16.71 | 33.71 | 50.42 | 54.00 | -3.58 | AVG |
| 2 | 2484.325 | 17.39 | 33.71 | 51.10 | 54.00 | -2.90 | AVG |

Note: 1. Measurement = Reading Level + Correct Factor.

2. Peak: Peak detector.

3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

**RESTRICTED BANDEDGE (CHANNEL 11, HORIZONTAL)****PEAK**

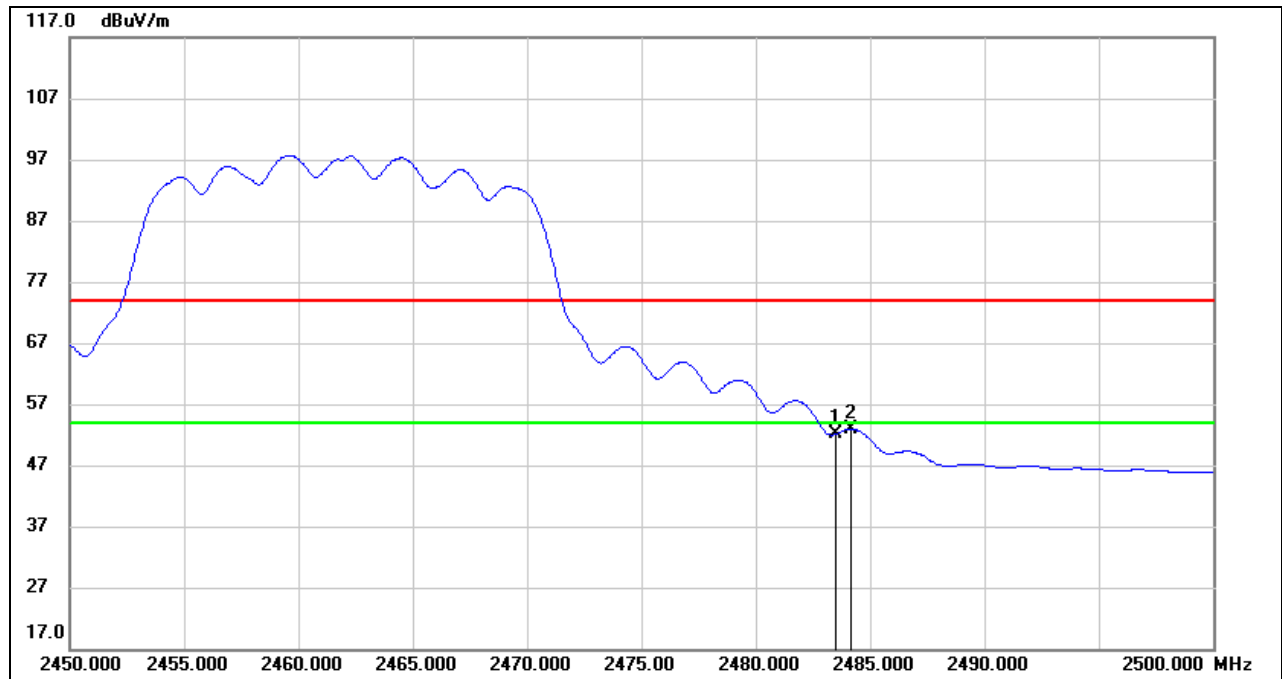
| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 2483.500 | 36.65 | 33.71 | 70.36 | 74.00 | -3.64 | peak |
| 2 | 2484.150 | 36.58 | 33.71 | 70.29 | 74.00 | -3.71 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.

2. Peak: Peak detector.

3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

AVG



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1 | 2483.500 | 18.42 | 33.71 | 52.13 | 54.00 | -1.87 | AVG |
| 2 | 2484.150 | 19.27 | 33.71 | 52.98 | 54.00 | -1.02 | AVG |

Note: 1. Measurement = Reading Level + Correct Factor.

2. Peak: Peak detector.

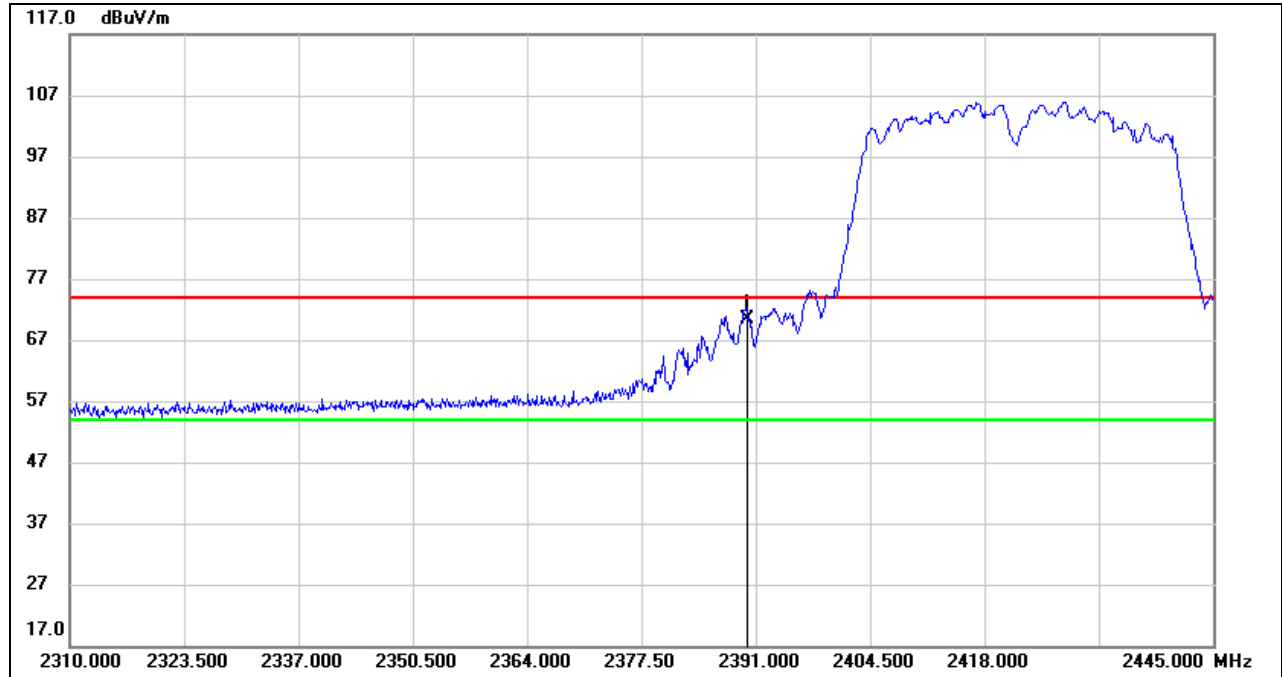
3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Note: Horizontal and Vertical have been tested, only the worst data was recorded in the report.

8.1.4. 802.11n HT40 MODE

RESTRICTED BANDEDGE (CHANNEL 3, HORIZONTAL)

PEAK

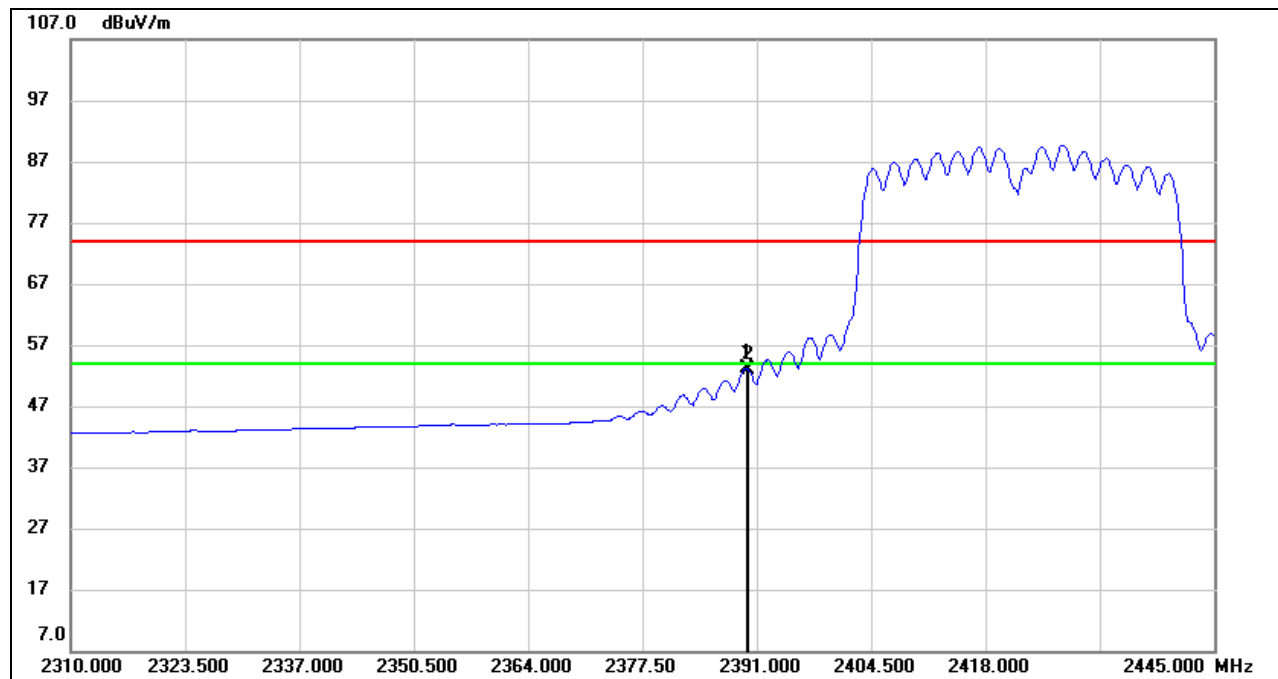


| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 2390.000 | 37.04 | 33.35 | 70.39 | 74.00 | -3.61 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.

2. Peak: Peak detector.

3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

**AVG**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 2389.785 | 19.80 | 33.35 | 53.15 | 54.00 | -0.85 | AVG |
| 2 | 2390.000 | 19.59 | 33.35 | 52.94 | 54.00 | -1.06 | AVG |

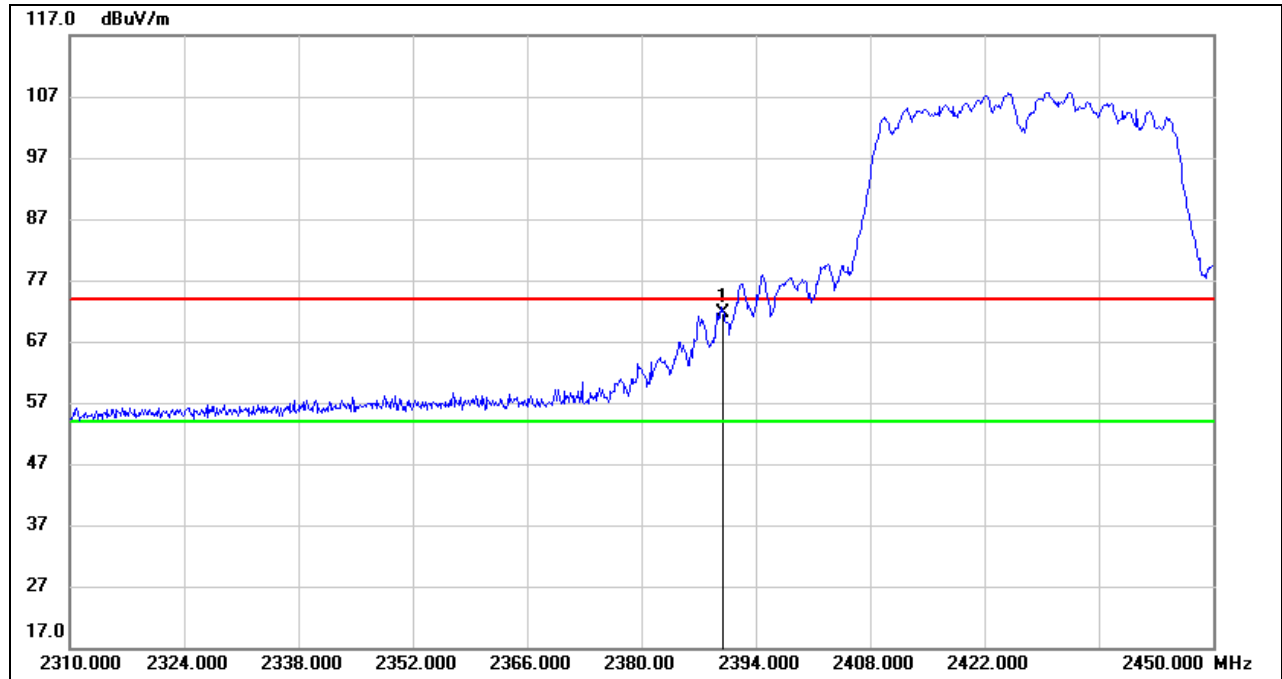
Note: 1. Measurement = Reading Level + Correct Factor.

2. Peak: Peak detector.

3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

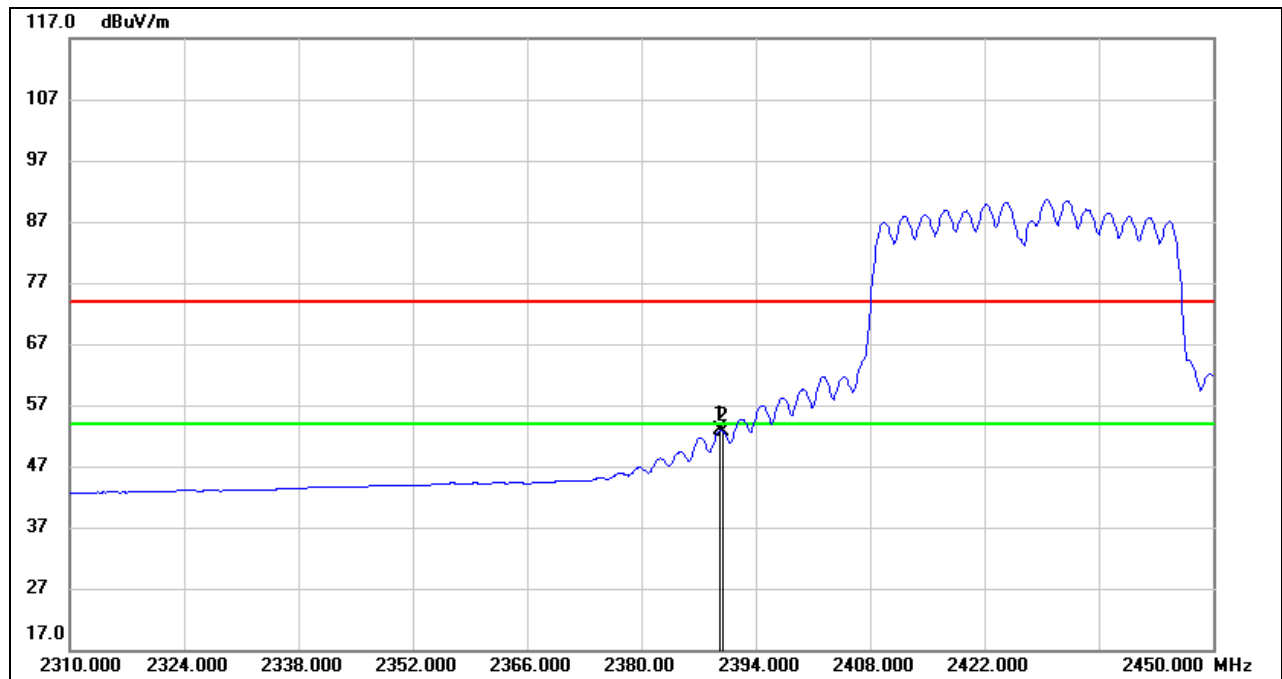
RESTRICTED BANDEDGE (CHANNEL 4, HORIZONTAL)

PEAK



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 2390.000 | 38.21 | 33.35 | 71.56 | 74.00 | -2.44 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.
2. Peak: Peak detector.
3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

**AVG**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 2389.660 | 19.51 | 33.35 | 52.86 | 54.00 | -1.14 | AVG |
| 2 | 2390.000 | 19.23 | 33.35 | 52.58 | 54.00 | -1.42 | AVG |

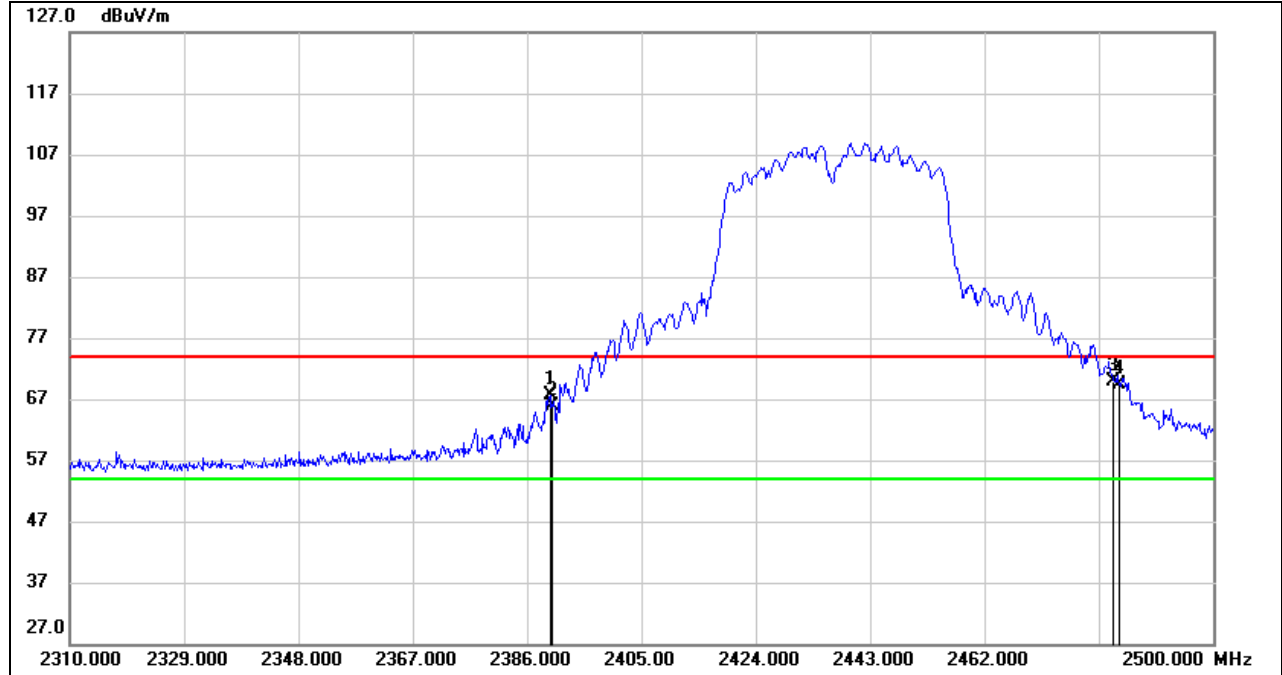
Note: 1. Measurement = Reading Level + Correct Factor.

2. Peak: Peak detector.

3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

RESTRICTED BANDEDGE (CHANNEL 6, HORIZONTAL)

PEAK



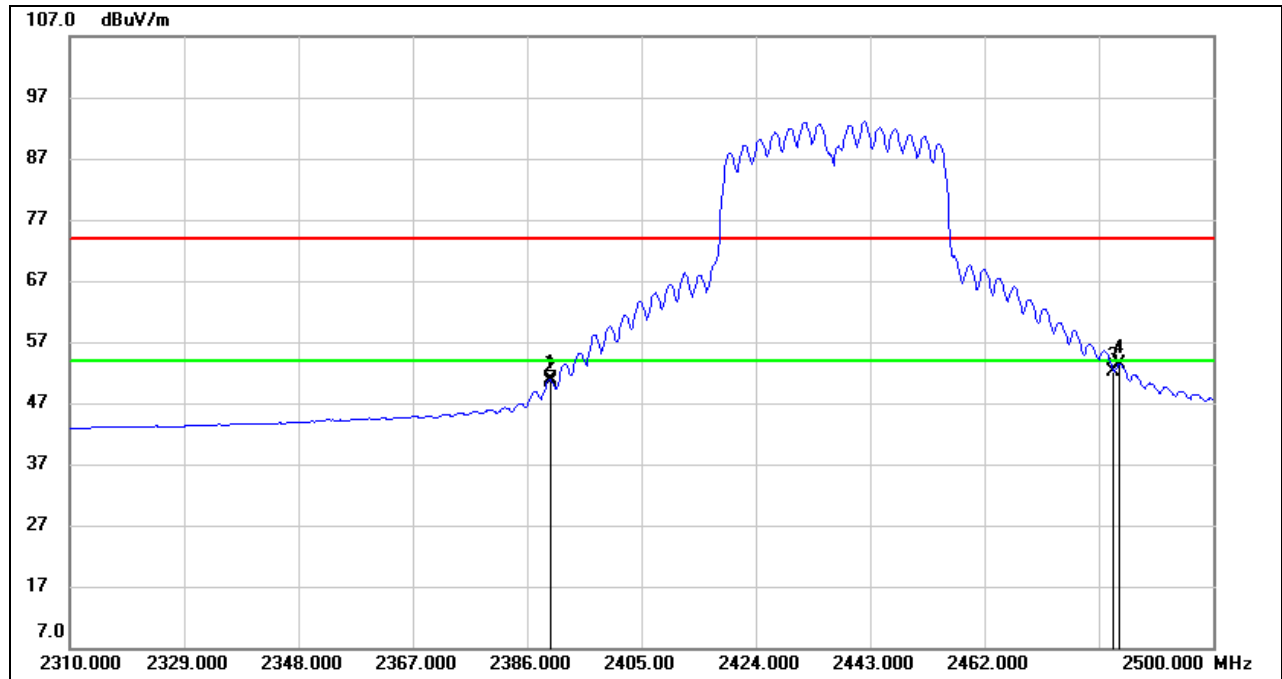
| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 2389.800 | 34.33 | 33.35 | 67.68 | 74.00 | -6.32 | peak |
| 2 | 2390.000 | 32.43 | 33.35 | 65.78 | 74.00 | -8.22 | peak |
| 3 | 2483.500 | 36.07 | 33.71 | 69.78 | 74.00 | -4.22 | peak |
| 4 | 2484.420 | 35.65 | 33.71 | 69.36 | 74.00 | -4.64 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.

2. Peak: Peak detector.

3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

AVG

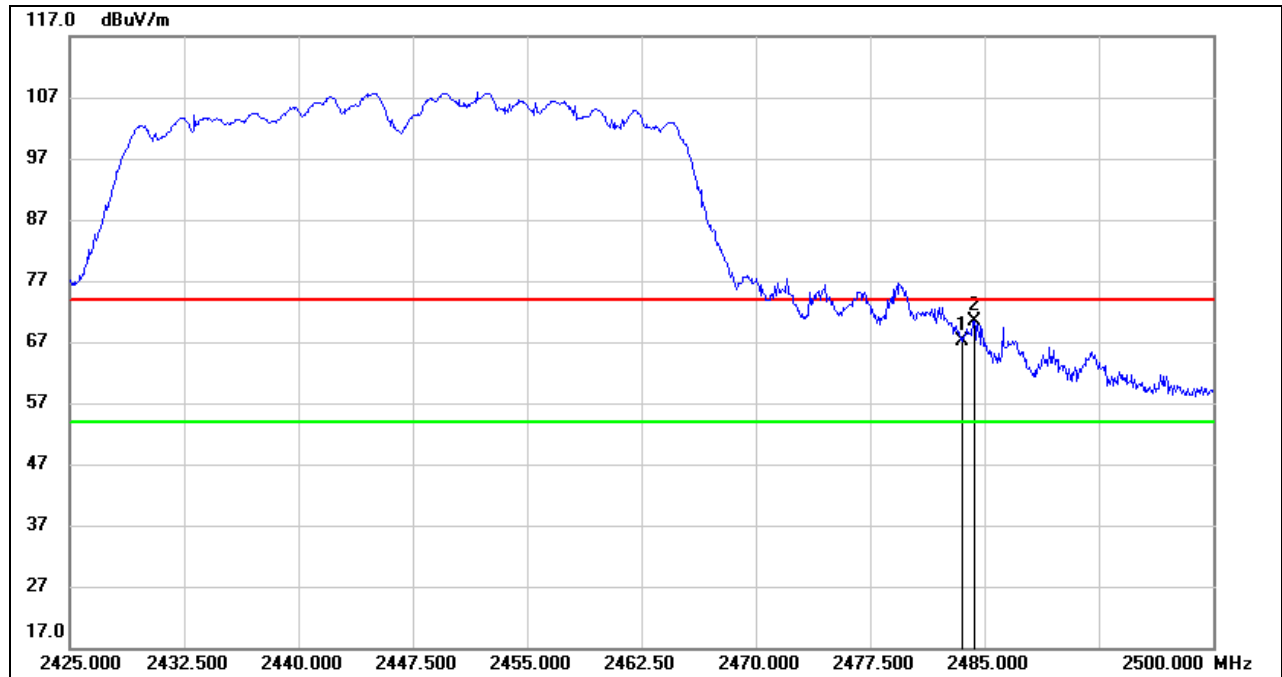


| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 2389.800 | 17.48 | 33.35 | 50.83 | 54.00 | -3.17 | AVG |
| 2 | 2390.000 | 17.14 | 33.35 | 50.49 | 54.00 | -3.51 | AVG |
| 3 | 2483.500 | 18.40 | 33.71 | 52.11 | 54.00 | -1.89 | AVG |
| 4 | 2484.420 | 19.62 | 33.71 | 53.33 | 54.00 | -0.67 | AVG |

Note: 1. Measurement = Reading Level + Correct Factor.

2. Peak: Peak detector.

3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

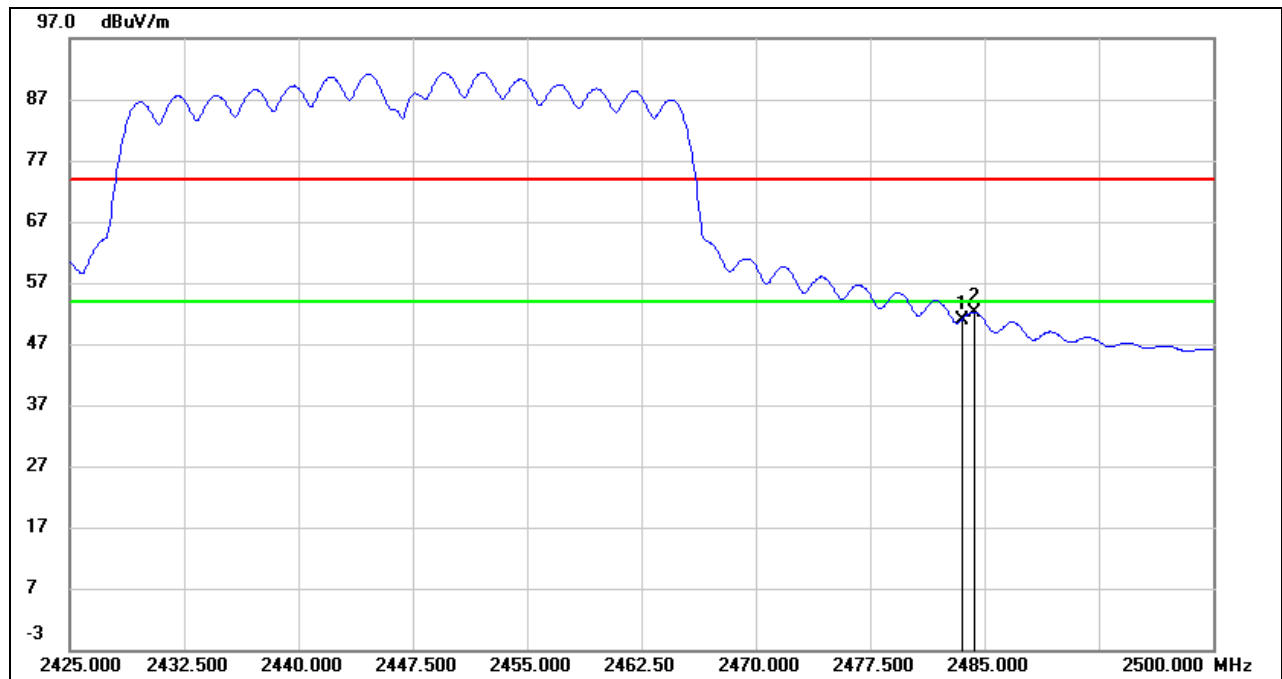
**RESTRICTED BANDEDGE (CHANNEL 8, HORIZONTAL)****PEAK**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 2483.500 | 33.45 | 33.71 | 67.16 | 74.00 | -6.84 | peak |
| 2 | 2484.325 | 36.74 | 33.71 | 70.45 | 74.00 | -3.55 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.

2. Peak: Peak detector.

3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

**AVG**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 2483.500 | 17.21 | 33.71 | 50.92 | 54.00 | -3.08 | AVG |
| 2 | 2484.325 | 18.47 | 33.71 | 52.18 | 54.00 | -1.82 | AVG |

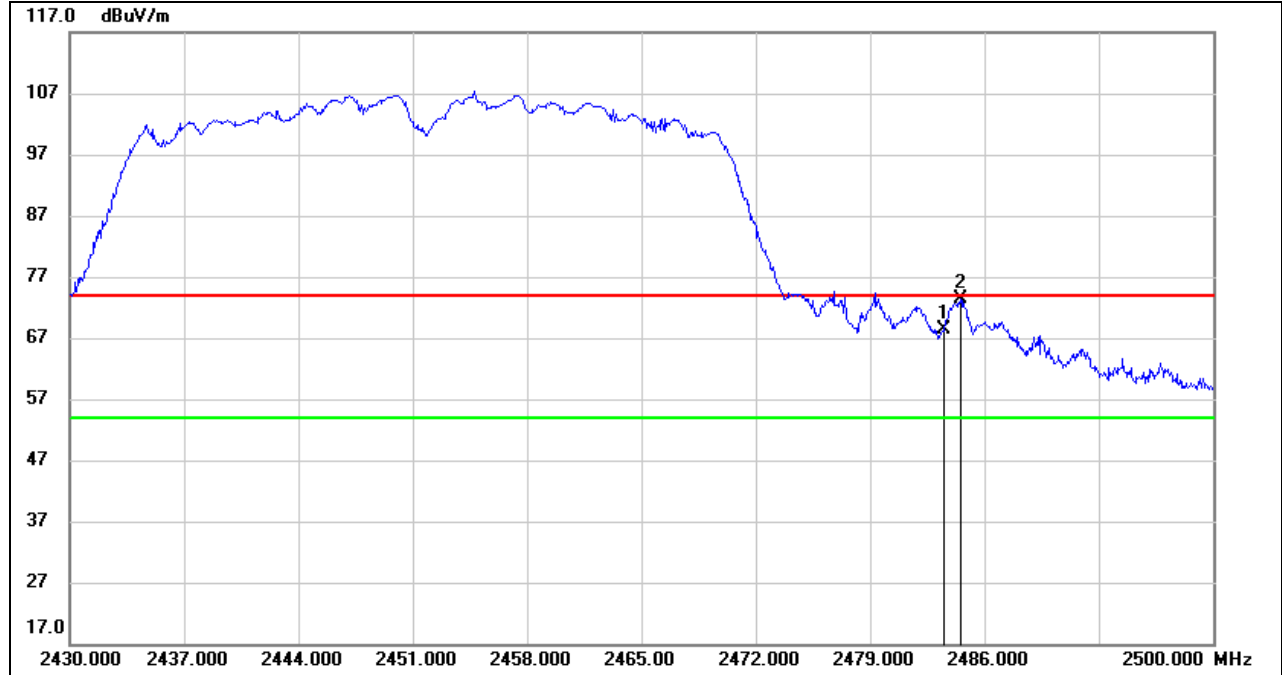
Note: 1. Measurement = Reading Level + Correct Factor.

2. Peak: Peak detector.

3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

RESTRICTED BANDEDGE (CHANNEL 9, HORIZONTAL)

PEAK



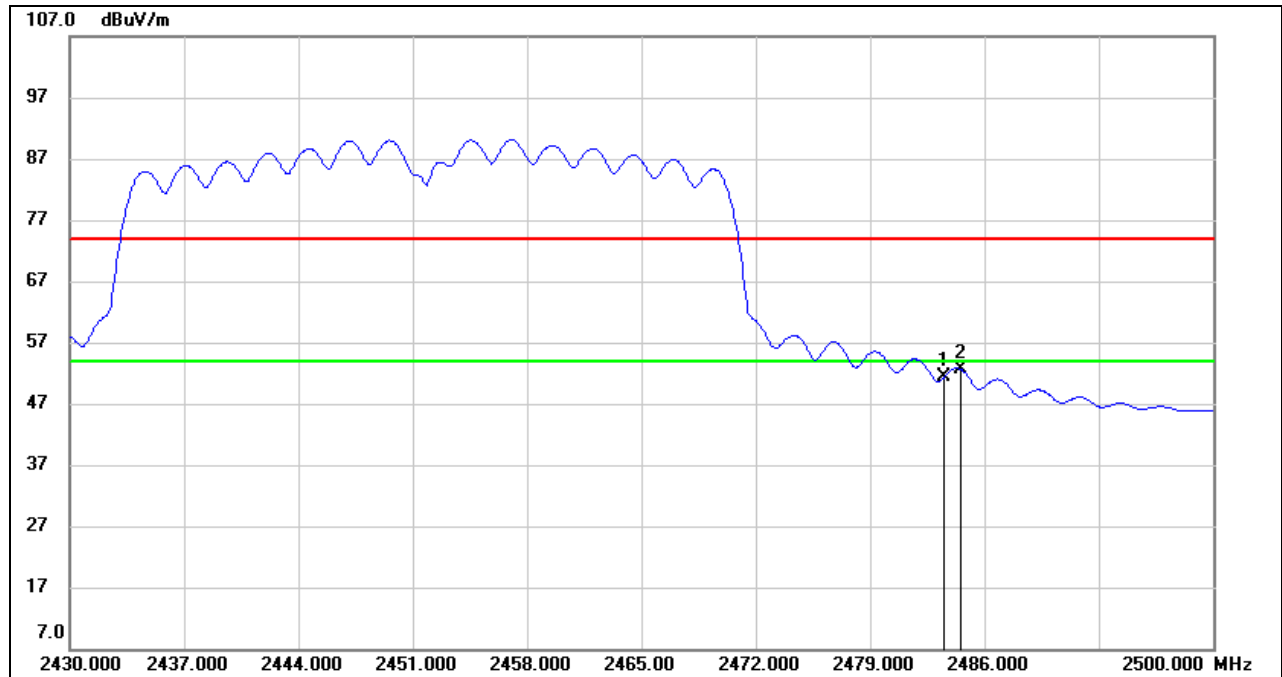
| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 2483.500 | 34.74 | 33.71 | 68.45 | 74.00 | -5.55 | peak |
| 2 | 2484.530 | 39.55 | 33.71 | 73.26 | 74.00 | -0.74 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.

2. Peak: Peak detector.

3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

AVG



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 2483.500 | 17.68 | 33.71 | 51.39 | 54.00 | -2.61 | AVG |
| 2 | 2484.540 | 18.82 | 33.71 | 52.53 | 54.00 | -1.47 | AVG |

Note: 1. Measurement = Reading Level + Correct Factor.

2. Peak: Peak detector.

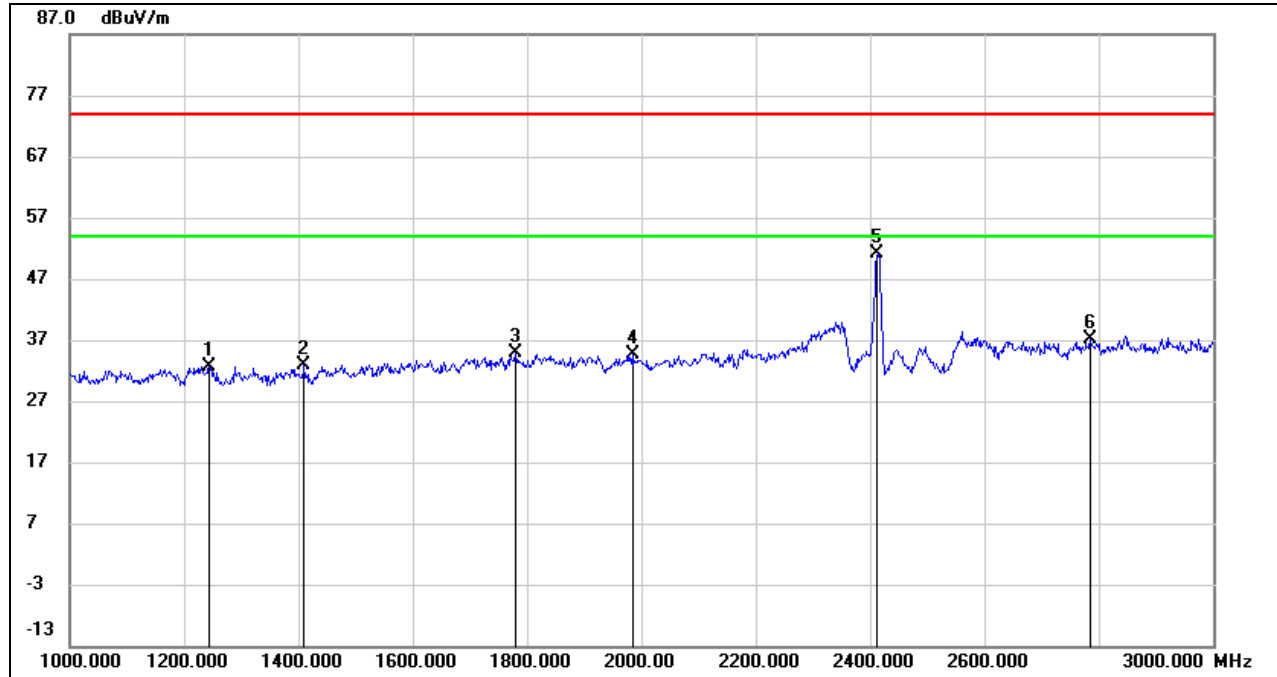
3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Note: Horizontal and Vertical have been tested, only the worst data was recorded in the report.

8.2. SPURIOUS EMISSIONS (1 GHz ~ 3 GHz)

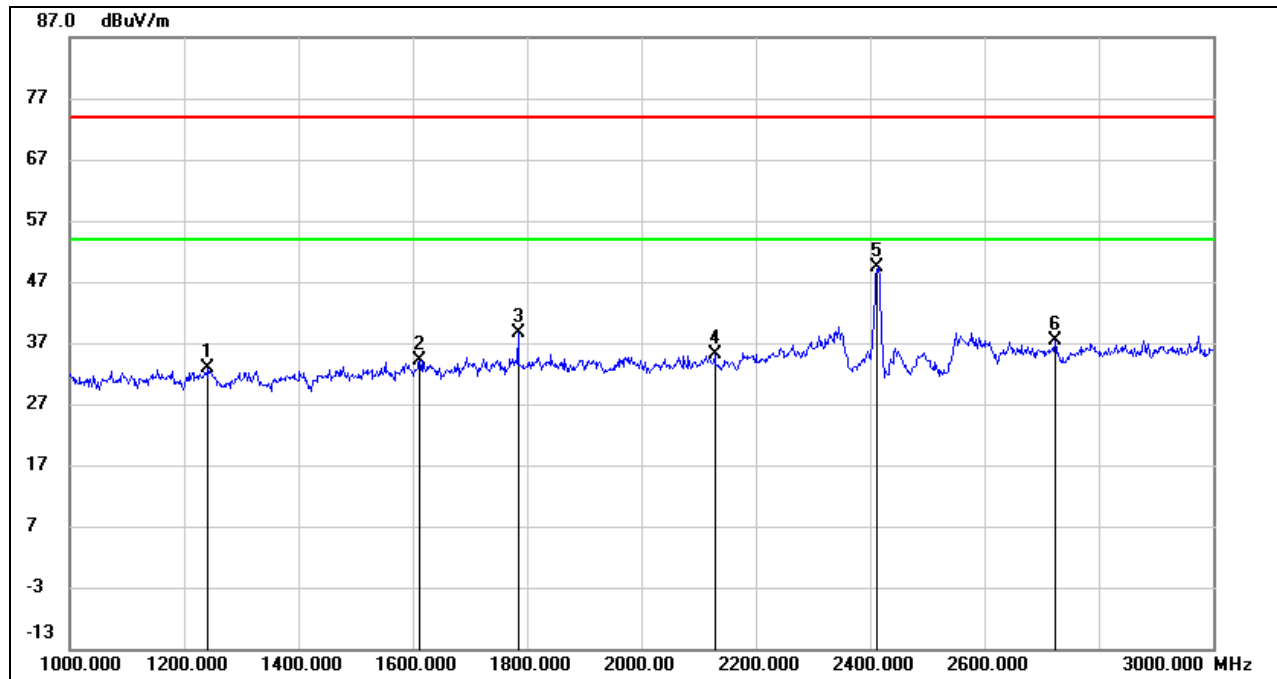
8.2.1. 802.11b MODE

HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 1, HORIZONTAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|-------------|
| 1 | 1244.000 | 45.64 | -12.93 | 32.71 | 74.00 | -41.29 | peak |
| 2 | 1410.000 | 45.62 | -12.66 | 32.96 | 74.00 | -41.04 | peak |
| 3 | 1780.000 | 45.01 | -10.20 | 34.81 | 74.00 | -39.19 | peak |
| 4 | 1984.000 | 44.87 | -10.18 | 34.69 | 74.00 | -39.31 | peak |
| 5 | 2412.000 | 59.59 | -8.37 | 51.22 | / | / | Fundamental |
| 6 | 2784.000 | 43.83 | -6.66 | 37.17 | 74.00 | -36.83 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 1, VERTICAL)**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|-------------|
| 1 | 1242.000 | 45.76 | -12.93 | 32.83 | 74.00 | -41.17 | peak |
| 2 | 1612.000 | 45.70 | -11.46 | 34.24 | 74.00 | -39.76 | peak |
| 3 | 1784.000 | 48.68 | -10.16 | 38.52 | 74.00 | -35.48 | peak |
| 4 | 2128.000 | 44.62 | -9.46 | 35.16 | 74.00 | -38.84 | peak |
| 5 | 2412.000 | 57.76 | -8.37 | 49.39 | / | / | Fundamental |
| 6 | 2724.000 | 44.42 | -7.04 | 37.38 | 74.00 | -36.62 | peak |

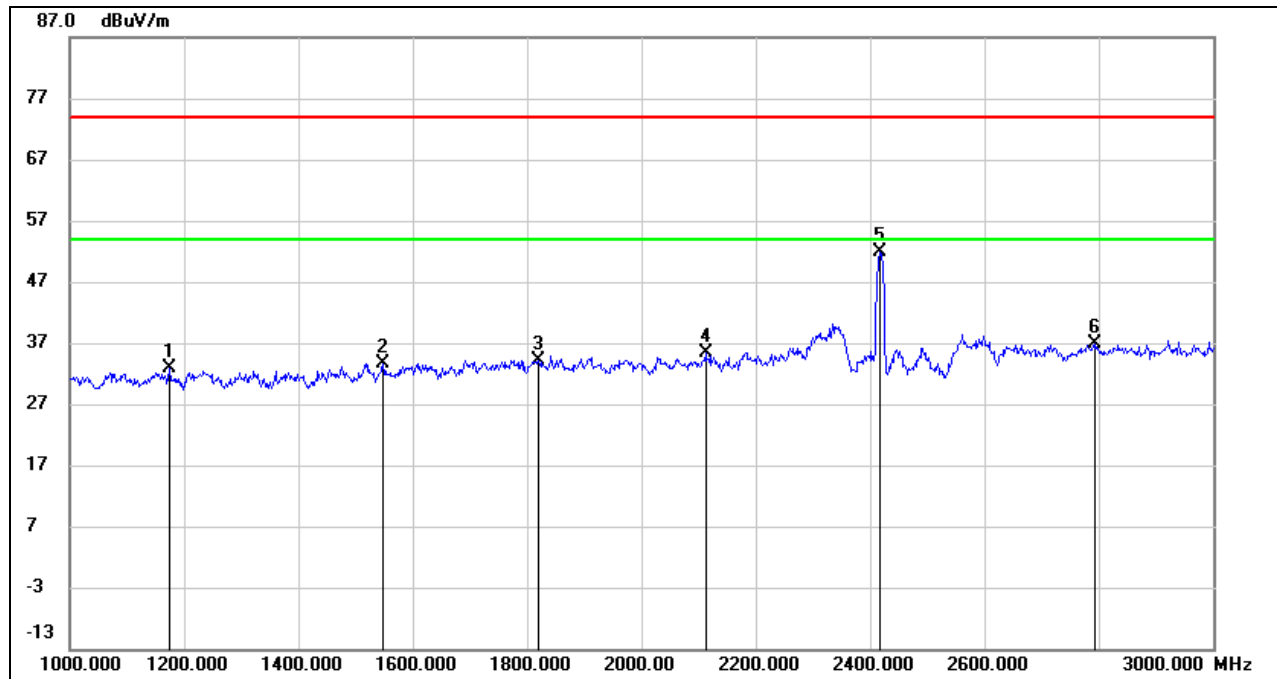
Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 2, HORIZONTAL)**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|-------------|
| 1 | 1174.000 | 45.90 | -13.13 | 32.77 | 74.00 | -41.23 | peak |
| 2 | 1548.000 | 45.53 | -11.91 | 33.62 | 74.00 | -40.38 | peak |
| 3 | 1820.000 | 44.27 | -10.06 | 34.21 | 74.00 | -39.79 | peak |
| 4 | 2112.000 | 44.90 | -9.55 | 35.35 | 74.00 | -38.65 | peak |
| 5 | 2417.000 | 60.29 | -8.37 | 51.92 | / | / | Fundamental |
| 6 | 2794.000 | 43.39 | -6.59 | 36.80 | 74.00 | -37.20 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.

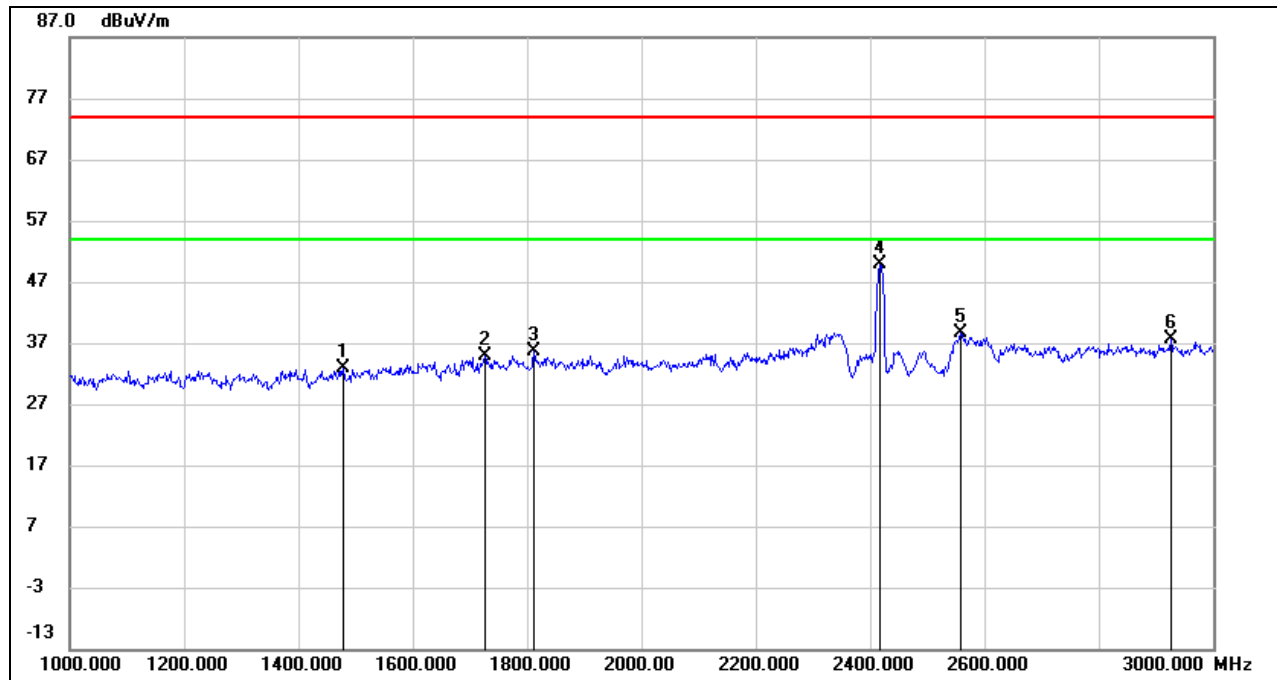
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

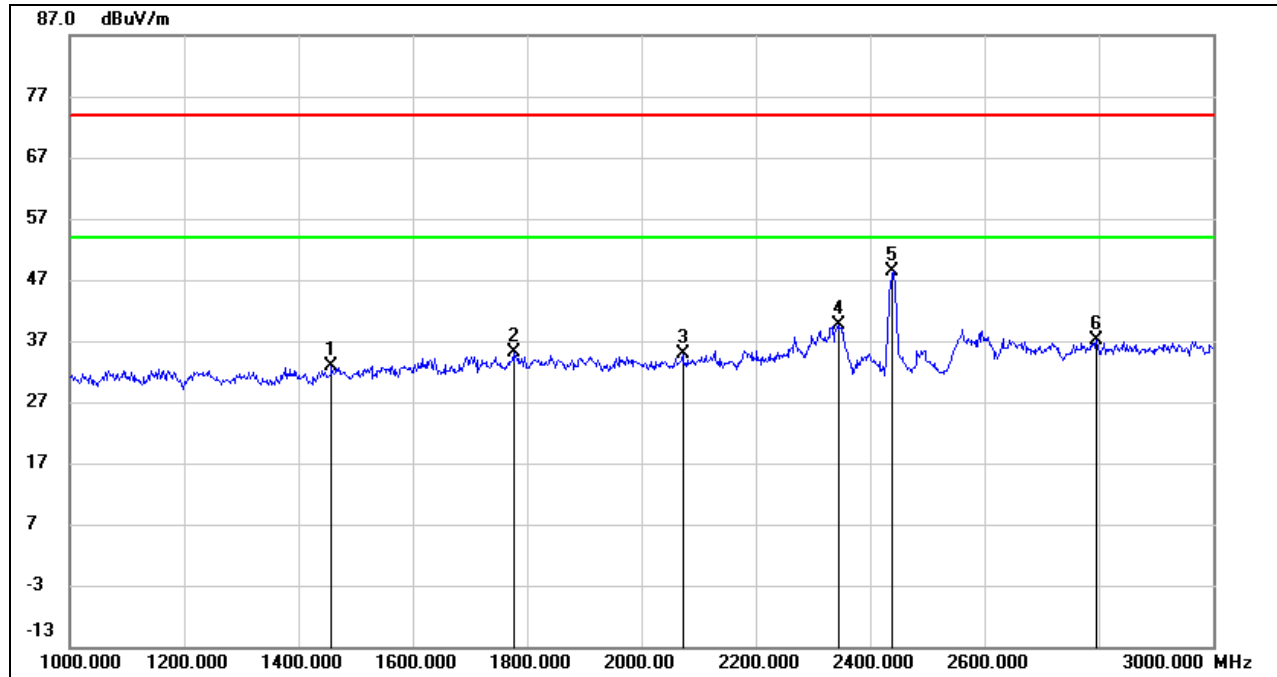
HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 2, VERTICAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|-------------|
| 1 | 1478.000 | 45.24 | -12.33 | 32.91 | 74.00 | -41.09 | peak |
| 2 | 1726.000 | 45.40 | -10.60 | 34.80 | 74.00 | -39.20 | peak |
| 3 | 1812.000 | 45.56 | -10.05 | 35.51 | 74.00 | -38.49 | peak |
| 4 | 2417.000 | 58.35 | -8.37 | 49.98 | / | / | Fundamental |
| 5 | 2558.000 | 46.63 | -8.01 | 38.62 | 74.00 | -35.38 | peak |
| 6 | 2926.000 | 43.55 | -5.95 | 37.60 | 74.00 | -36.40 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 6, HORIZONTAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|-------------|
| 1 | 1458.000 | 45.41 | -12.44 | 32.97 | 74.00 | -41.03 | peak |
| 2 | 1776.000 | 45.30 | -10.22 | 35.08 | 74.00 | -38.92 | peak |
| 3 | 2072.000 | 44.54 | -9.78 | 34.76 | 74.00 | -39.24 | peak |
| 4 | 2344.000 | 48.28 | -8.58 | 39.70 | 74.00 | -34.30 | peak |
| 5 | 2437.000 | 56.62 | -8.33 | 48.29 | / | / | Fundamental |
| 6 | 2796.000 | 43.59 | -6.58 | 37.01 | 74.00 | -36.99 | peak |

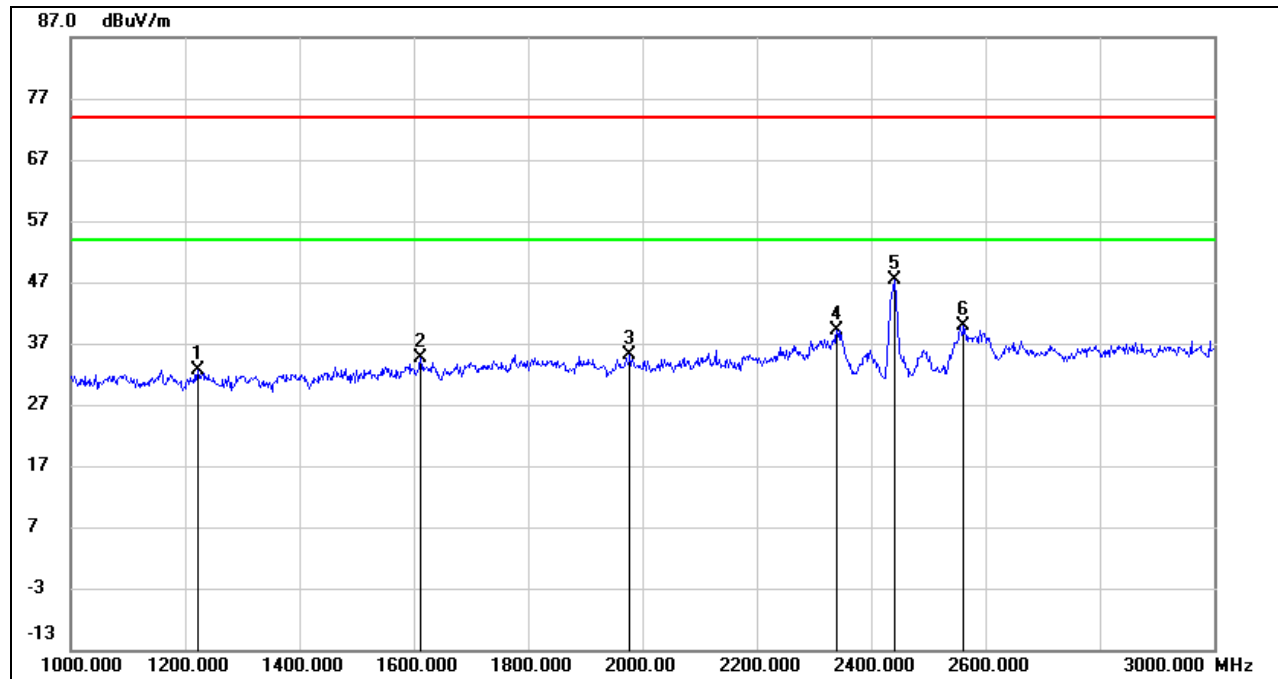
Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 6, VERTICAL)**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|-------------|
| 1 | 1222.000 | 45.64 | -12.96 | 32.68 | 74.00 | -41.32 | peak |
| 2 | 1612.000 | 46.09 | -11.46 | 34.63 | 74.00 | -39.37 | peak |
| 3 | 1978.000 | 45.33 | -10.18 | 35.15 | 74.00 | -38.85 | peak |
| 4 | 2340.000 | 47.82 | -8.59 | 39.23 | 74.00 | -34.77 | peak |
| 5 | 2437.000 | 55.72 | -8.32 | 47.40 | / | / | Fundamental |
| 6 | 2562.000 | 47.92 | -8.00 | 39.92 | 74.00 | -34.08 | peak |

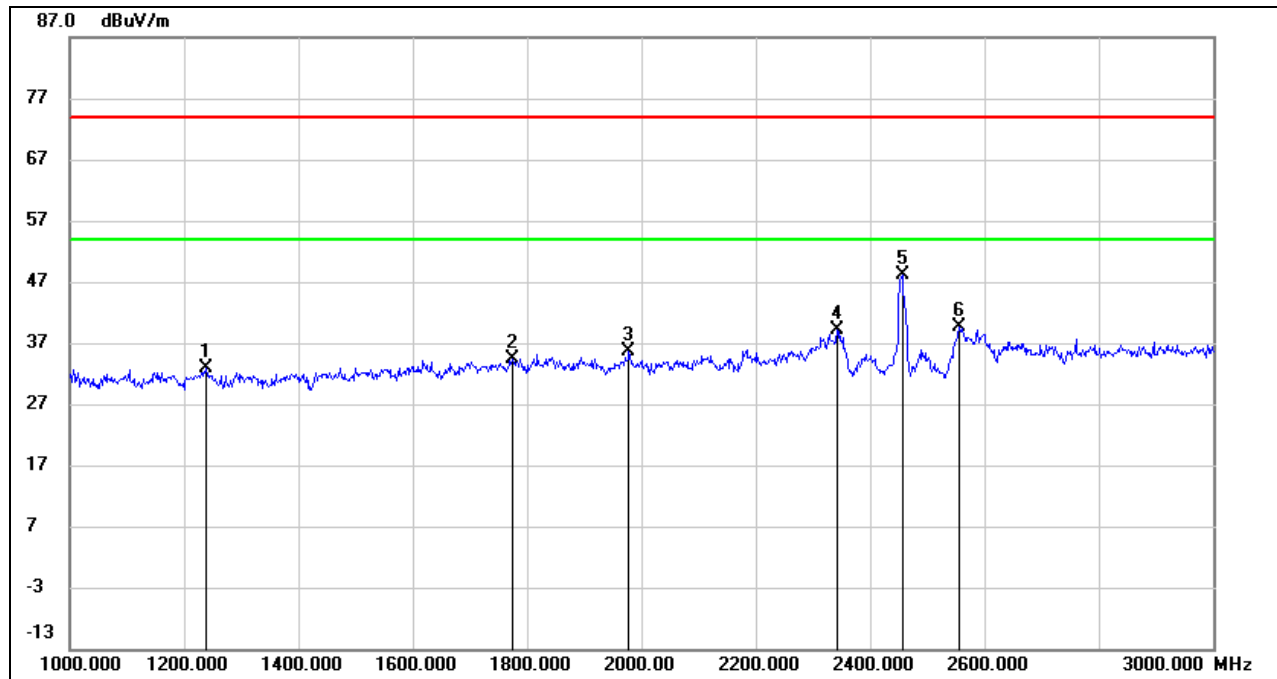
Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 10, HORIZONTAL)**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|-------------|
| 1 | 1238.000 | 45.78 | -12.94 | 32.84 | 74.00 | -41.16 | peak |
| 2 | 1774.000 | 44.60 | -10.24 | 34.36 | 74.00 | -39.64 | peak |
| 3 | 1978.000 | 45.73 | -10.18 | 35.55 | 74.00 | -38.45 | peak |
| 4 | 2342.000 | 47.72 | -8.58 | 39.14 | 74.00 | -34.86 | peak |
| 5 | 2457.000 | 56.37 | -8.30 | 48.07 | / | / | Fundamental |
| 6 | 2556.000 | 47.65 | -8.03 | 39.62 | 74.00 | -34.38 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.

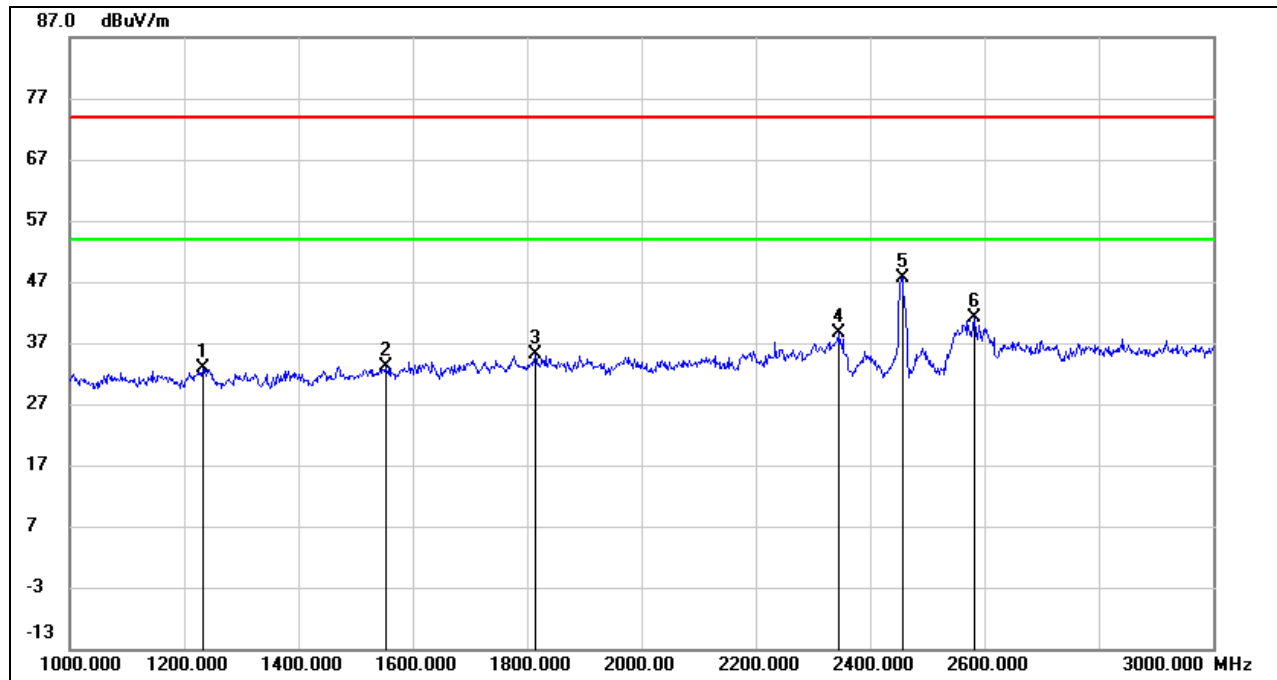
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 10, VERTICAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|-------------|
| 1 | 1234.000 | 45.78 | -12.95 | 32.83 | 74.00 | -41.17 | peak |
| 2 | 1552.000 | 45.07 | -11.88 | 33.19 | 74.00 | -40.81 | peak |
| 3 | 1814.000 | 45.18 | -10.06 | 35.12 | 74.00 | -38.88 | peak |
| 4 | 2344.000 | 47.21 | -8.58 | 38.63 | 74.00 | -35.37 | peak |
| 5 | 2457.000 | 55.92 | -8.30 | 47.62 | / | / | Fundamental |
| 6 | 2582.000 | 49.04 | -7.92 | 41.12 | 74.00 | -32.88 | peak |

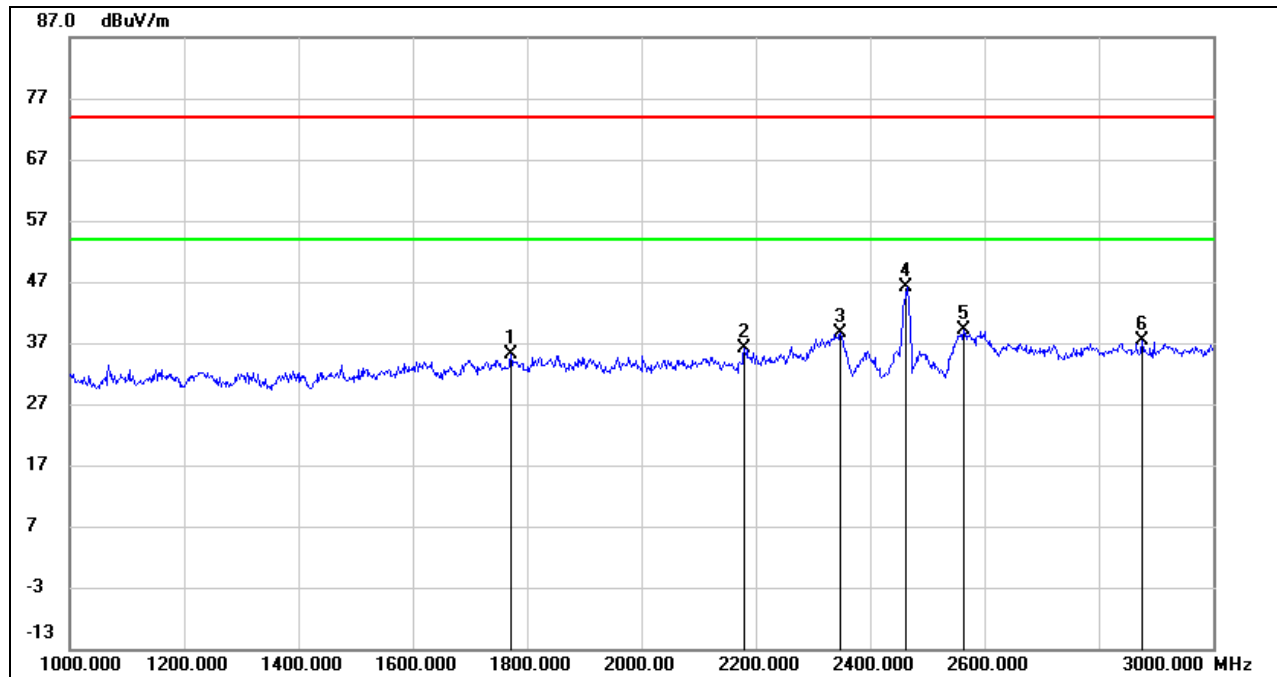
Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

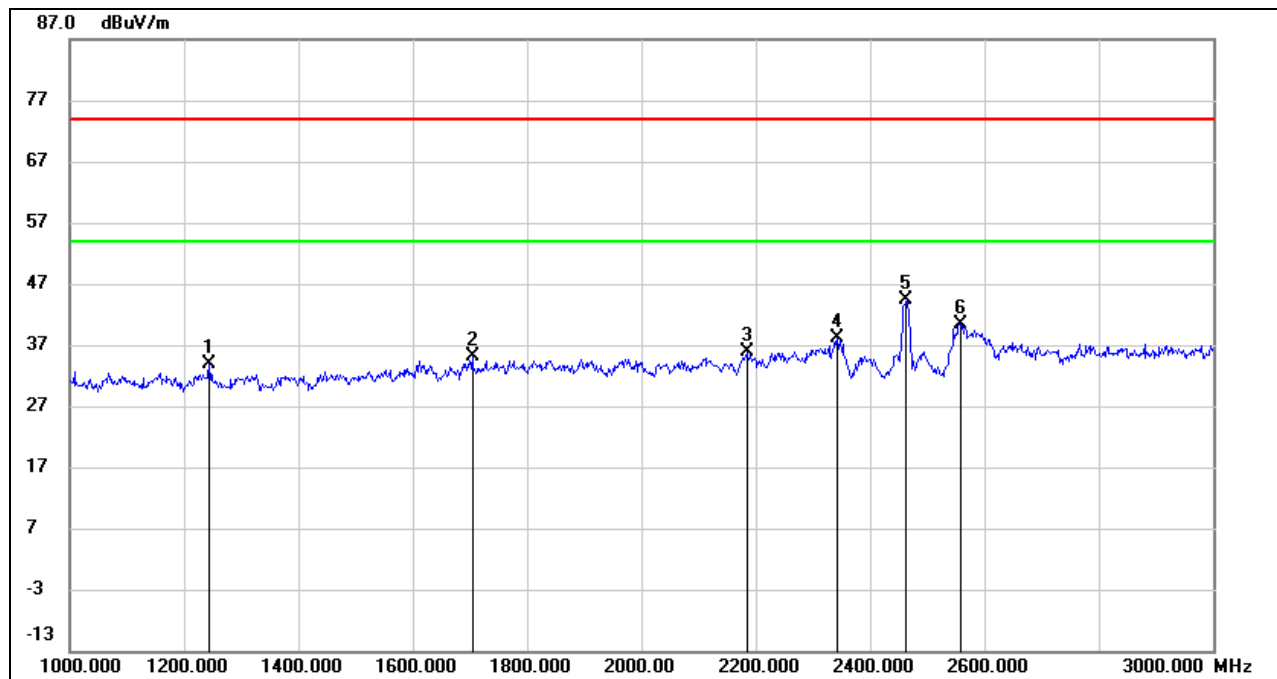
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 11, HORIZONTAL)**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|-------------|
| 1 | 1772.000 | 45.51 | -10.26 | 35.25 | 74.00 | -38.75 | peak |
| 2 | 2180.000 | 45.37 | -9.17 | 36.20 | 74.00 | -37.80 | peak |
| 3 | 2348.000 | 47.30 | -8.57 | 38.73 | 74.00 | -35.27 | peak |
| 4 | 2462.000 | 54.48 | -8.29 | 46.19 | / | / | Fundamental |
| 5 | 2564.000 | 47.02 | -7.99 | 39.03 | 74.00 | -34.97 | peak |
| 6 | 2876.000 | 43.69 | -6.19 | 37.50 | 74.00 | -36.50 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 11, VERTICAL)**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|-------------|
| 1 | 1244.000 | 46.71 | -12.93 | 33.78 | 74.00 | -40.22 | peak |
| 2 | 1704.000 | 45.86 | -10.77 | 35.09 | 74.00 | -38.91 | peak |
| 3 | 2184.000 | 44.99 | -9.14 | 35.85 | 74.00 | -38.15 | peak |
| 4 | 2342.000 | 46.63 | -8.58 | 38.05 | 74.00 | -35.95 | peak |
| 5 | 2462.000 | 52.71 | -8.29 | 44.42 | / | / | Fundamental |
| 6 | 2558.000 | 48.49 | -8.01 | 40.48 | 74.00 | -33.52 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

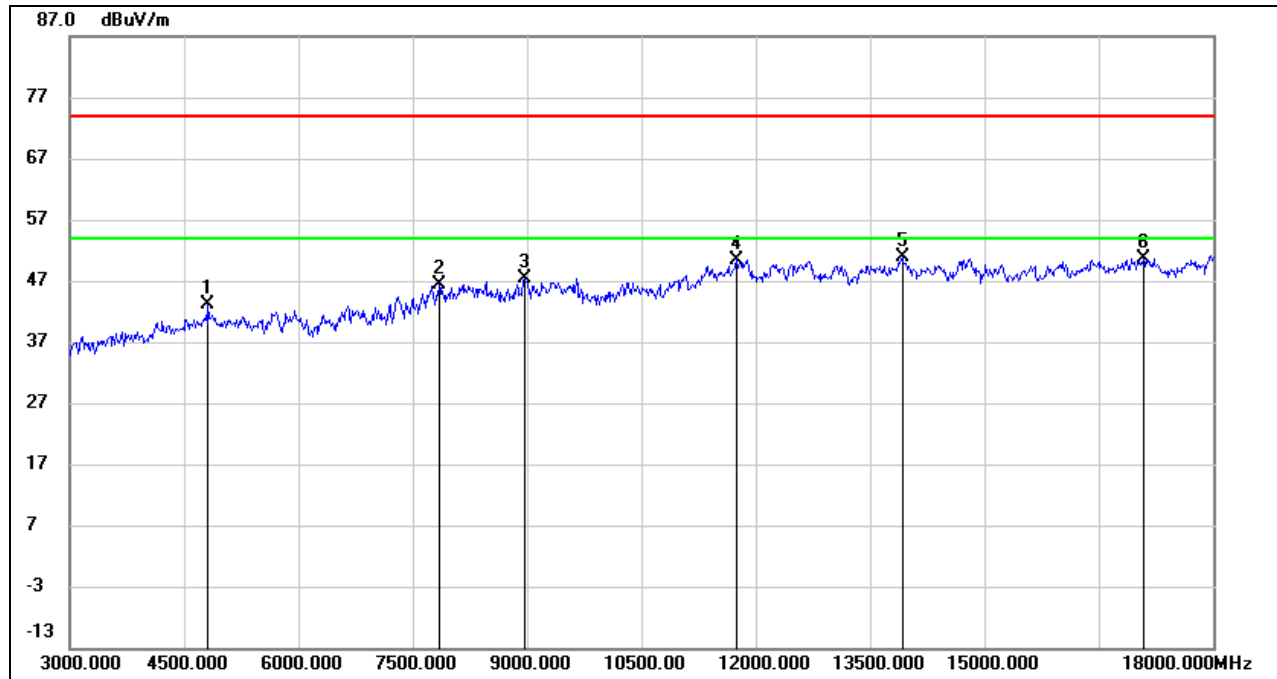
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

Note: All modes and channels have been tested, only the worst data was recorded in the report.

8.3. SPURIOUS EMISSIONS (3 GHz ~ 18 GHz)

8.3.1. 802.11b MODE

HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 1, HORIZONTAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 4815.000 | 42.60 | 0.61 | 43.21 | 74.00 | -30.79 | peak |
| 2 | 7845.000 | 38.30 | 8.12 | 46.42 | 74.00 | -27.58 | peak |
| 3 | 8970.000 | 37.08 | 10.32 | 47.40 | 74.00 | -26.60 | peak |
| 4 | 11745.000 | 35.19 | 15.31 | 50.50 | 74.00 | -23.50 | peak |
| 5 | 13920.000 | 33.99 | 16.89 | 50.88 | 74.00 | -23.12 | peak |
| 6 | 17085.000 | 30.12 | 20.58 | 50.70 | 74.00 | -23.30 | peak |

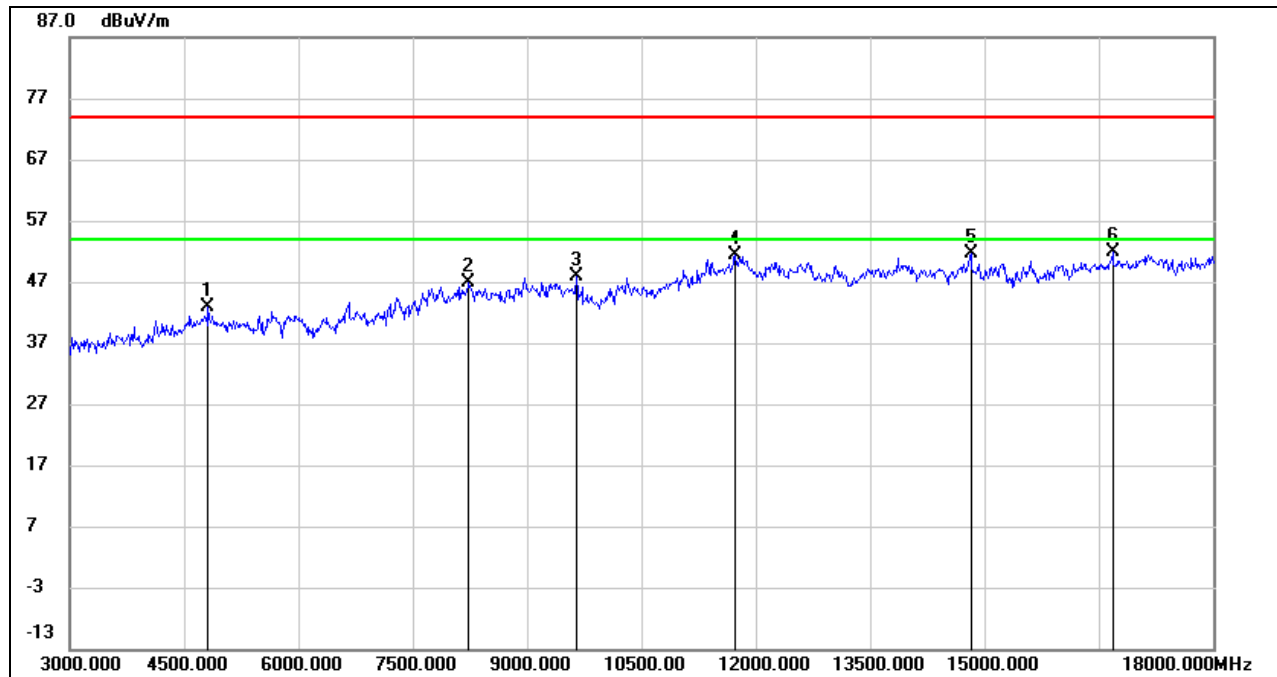
Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 1, VERTICAL)**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 4815.000 | 42.35 | 0.61 | 42.96 | 74.00 | -31.04 | peak |
| 2 | 8235.000 | 37.54 | 9.22 | 46.76 | 74.00 | -27.24 | peak |
| 3 | 9645.000 | 37.52 | 10.36 | 47.88 | 74.00 | -26.12 | peak |
| 4 | 11730.000 | 36.07 | 15.23 | 51.30 | 74.00 | -22.70 | peak |
| 5 | 14820.000 | 34.70 | 16.81 | 51.51 | 74.00 | -22.49 | peak |
| 6 | 16680.000 | 32.23 | 19.61 | 51.84 | 74.00 | -22.16 | peak |

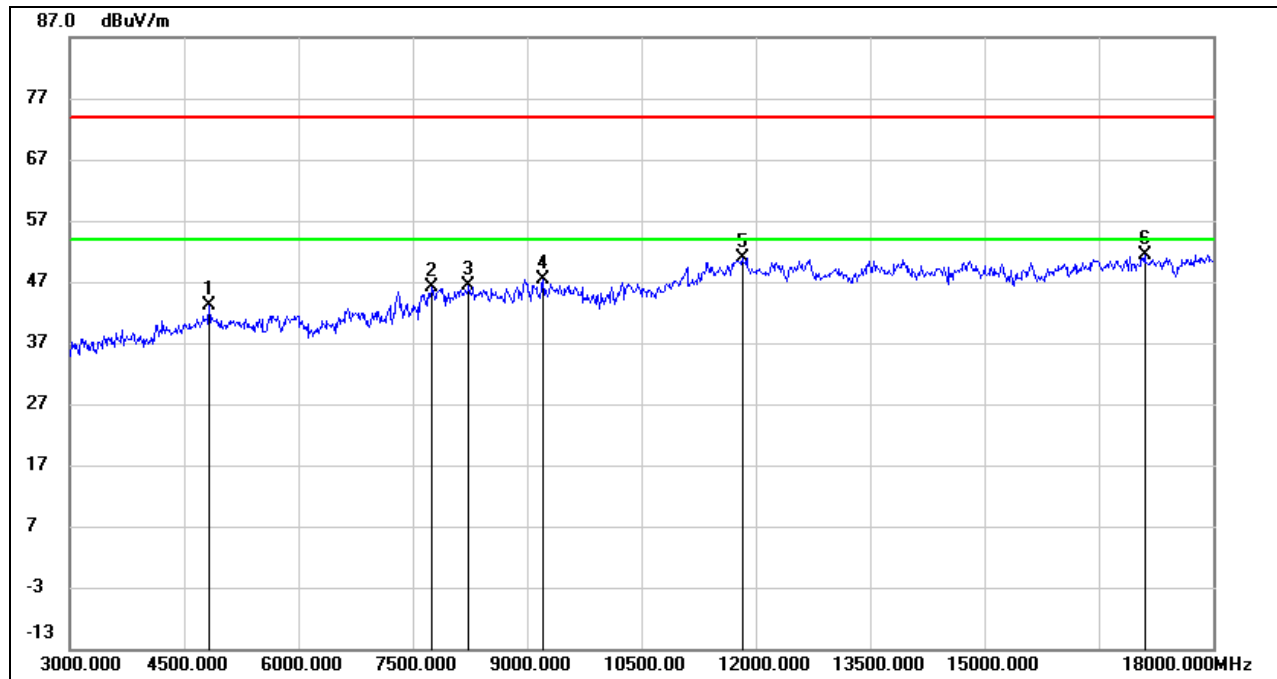
Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 2, HORIZONTAL)**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1 | 4830.000 | 42.58 | 0.64 | 43.22 | 74.00 | -30.78 | peak |
| 2 | 7755.000 | 37.98 | 8.07 | 46.05 | 74.00 | -27.95 | peak |
| 3 | 8235.000 | 37.06 | 9.22 | 46.28 | 74.00 | -27.72 | peak |
| 4 | 9210.000 | 38.07 | 9.34 | 47.41 | 74.00 | -26.59 | peak |
| 5 | 11820.000 | 35.27 | 15.58 | 50.85 | 74.00 | -23.15 | peak |
| 6 | 17100.000 | 30.64 | 20.64 | 51.28 | 74.00 | -22.72 | peak |

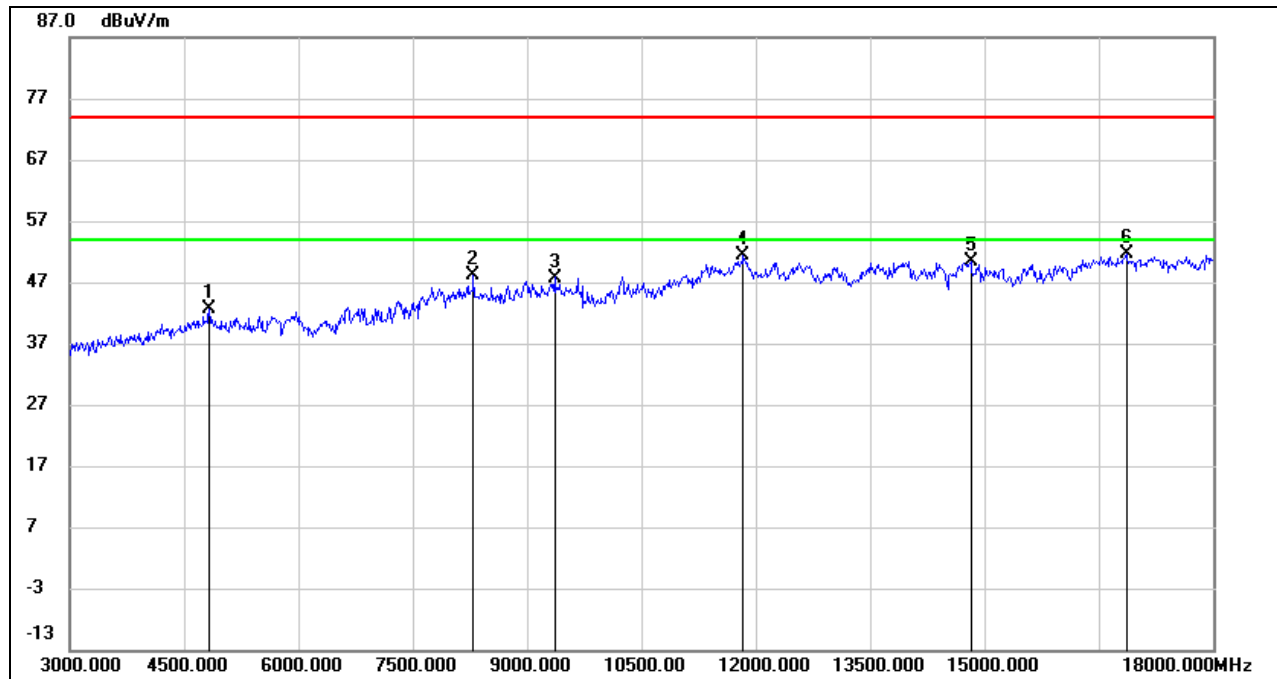
Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 2, VERTICAL)**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1 | 4830.000 | 41.89 | 0.64 | 42.53 | 74.00 | -31.47 | peak |
| 2 | 8295.000 | 39.16 | 8.99 | 48.15 | 74.00 | -25.85 | peak |
| 3 | 9360.000 | 37.64 | 10.11 | 47.75 | 74.00 | -26.25 | peak |
| 4 | 11835.000 | 35.72 | 15.56 | 51.28 | 74.00 | -22.72 | peak |
| 5 | 14820.000 | 33.56 | 16.81 | 50.37 | 74.00 | -23.63 | peak |
| 6 | 16860.000 | 31.65 | 19.88 | 51.53 | 74.00 | -22.47 | peak |

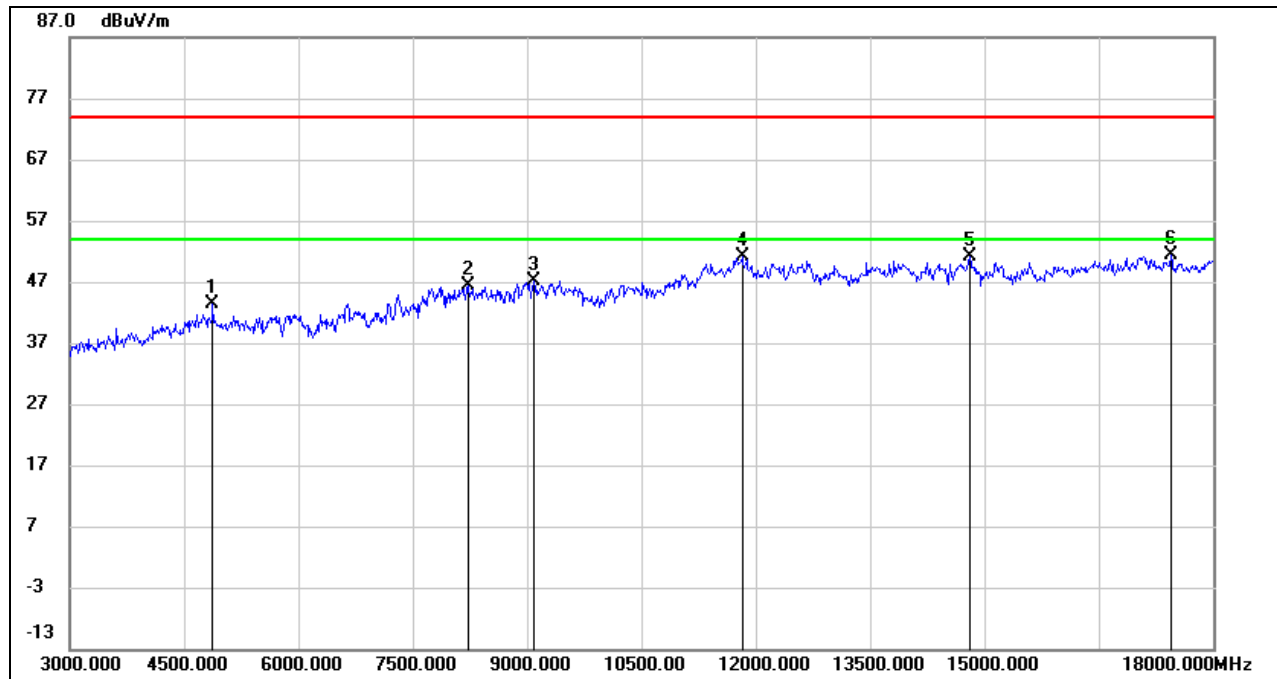
Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 6, HORIZONTAL)**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 4875.000 | 42.63 | 0.71 | 43.34 | 74.00 | -30.66 | peak |
| 2 | 8220.000 | 37.07 | 9.29 | 46.36 | 74.00 | -27.64 | peak |
| 3 | 9090.000 | 37.05 | 10.03 | 47.08 | 74.00 | -26.92 | peak |
| 4 | 11820.000 | 35.56 | 15.58 | 51.14 | 74.00 | -22.86 | peak |
| 5 | 14805.000 | 34.36 | 16.80 | 51.16 | 74.00 | -22.84 | peak |
| 6 | 17445.000 | 30.56 | 20.78 | 51.34 | 74.00 | -22.66 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.

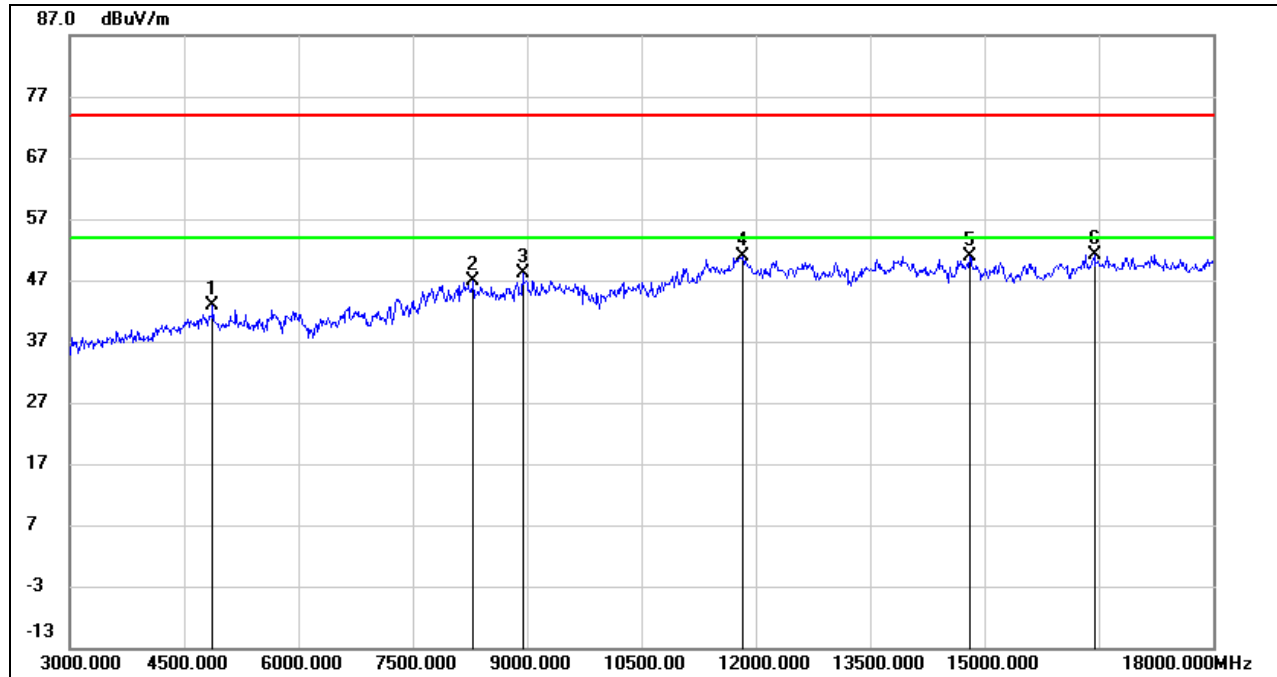
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 6, VERTICAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1 | 4875.000 | 42.11 | 0.71 | 42.82 | 74.00 | -31.18 | peak |
| 2 | 8295.000 | 37.90 | 8.99 | 46.89 | 74.00 | -27.11 | peak |
| 3 | 8940.000 | 38.07 | 9.99 | 48.06 | 74.00 | -25.94 | peak |
| 4 | 11835.000 | 35.29 | 15.56 | 50.85 | 74.00 | -23.15 | peak |
| 5 | 14805.000 | 34.15 | 16.80 | 50.95 | 74.00 | -23.05 | peak |
| 6 | 16440.000 | 32.29 | 18.87 | 51.16 | 74.00 | -22.84 | peak |

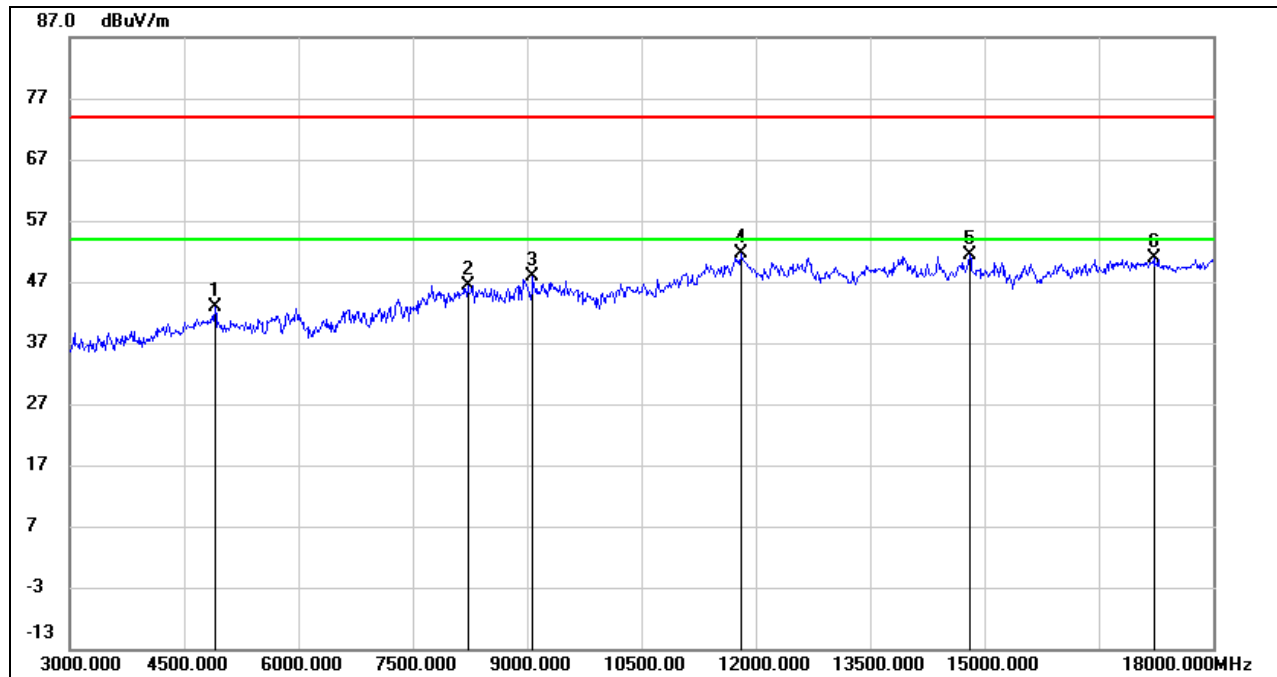
Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 10, HORIZONTAL)**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 4905.000 | 42.06 | 0.75 | 42.81 | 74.00 | -31.19 | peak |
| 2 | 8220.000 | 37.07 | 9.29 | 46.36 | 74.00 | -27.64 | peak |
| 3 | 9075.000 | 37.69 | 10.13 | 47.82 | 74.00 | -26.18 | peak |
| 4 | 11805.000 | 36.10 | 15.60 | 51.70 | 74.00 | -22.30 | peak |
| 5 | 14805.000 | 34.66 | 16.80 | 51.46 | 74.00 | -22.54 | peak |
| 6 | 17220.000 | 29.79 | 21.01 | 50.80 | 74.00 | -23.20 | peak |

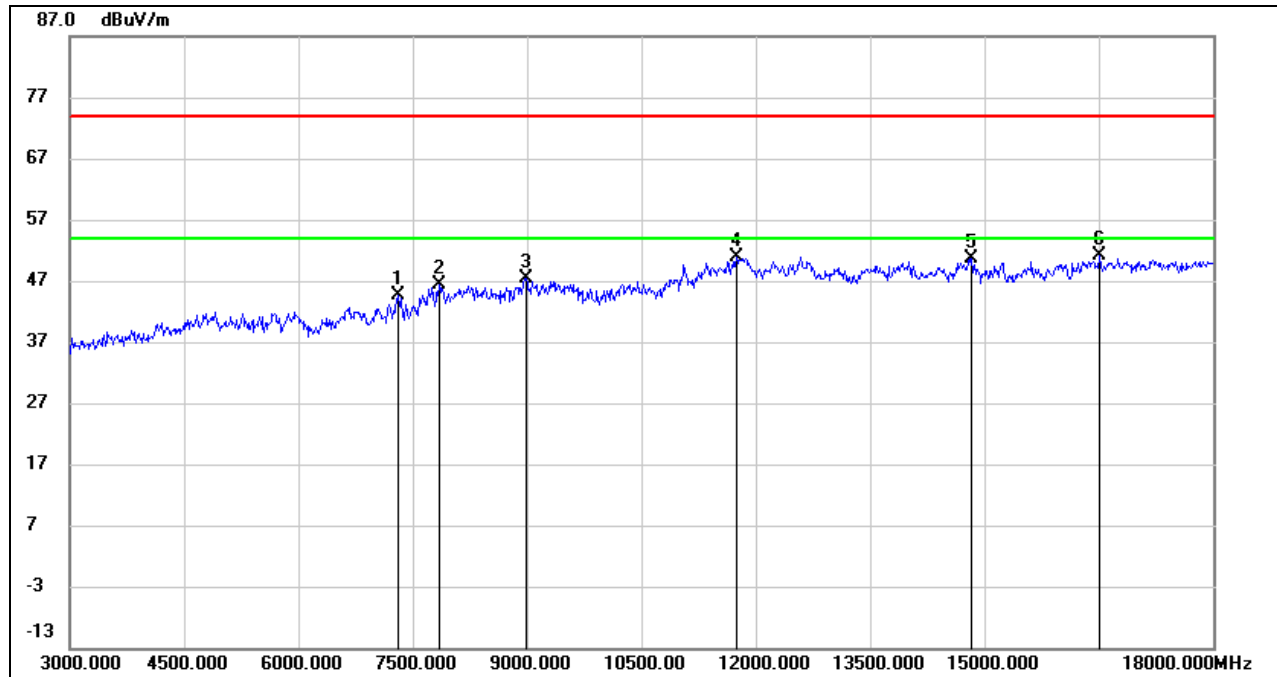
Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 10, VERTICAL)**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 7305.000 | 37.18 | 7.37 | 44.55 | 74.00 | -29.45 | peak |
| 2 | 7845.000 | 38.16 | 8.12 | 46.28 | 74.00 | -27.72 | peak |
| 3 | 8985.000 | 36.85 | 10.47 | 47.32 | 74.00 | -26.68 | peak |
| 4 | 11745.000 | 35.58 | 15.31 | 50.89 | 74.00 | -23.11 | peak |
| 5 | 14835.000 | 33.85 | 16.81 | 50.66 | 74.00 | -23.34 | peak |
| 6 | 16515.000 | 31.92 | 19.19 | 51.11 | 74.00 | -22.89 | peak |

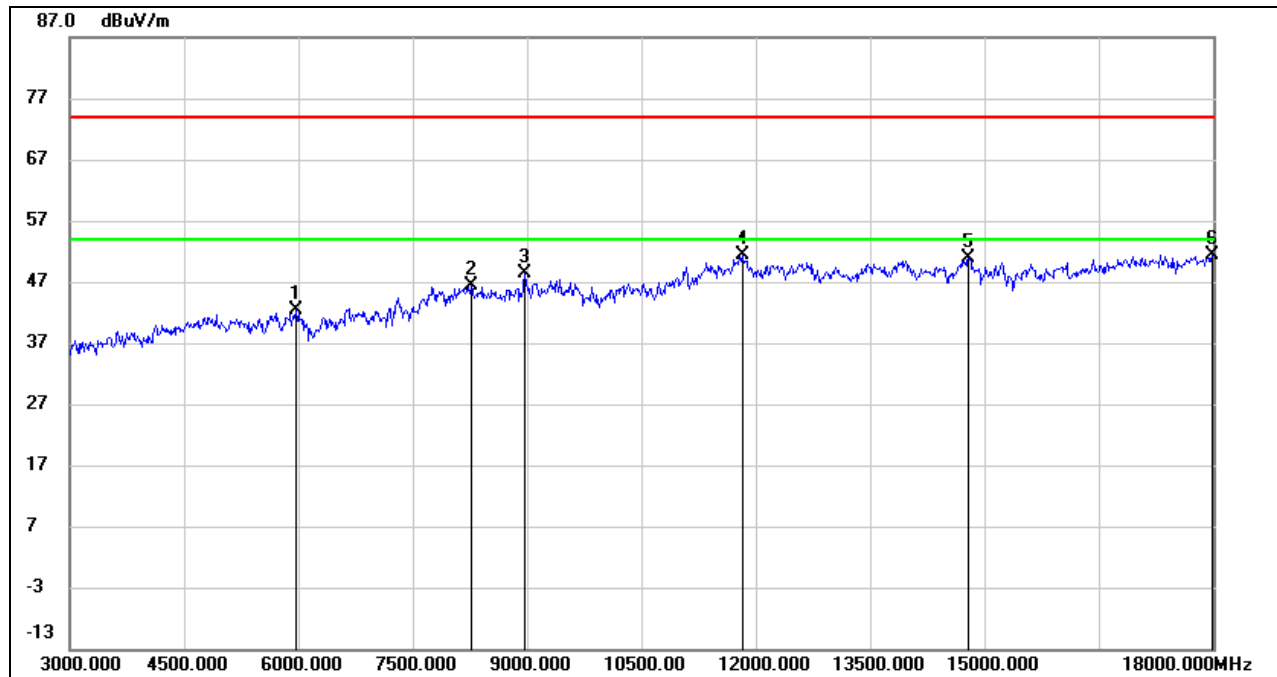
Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

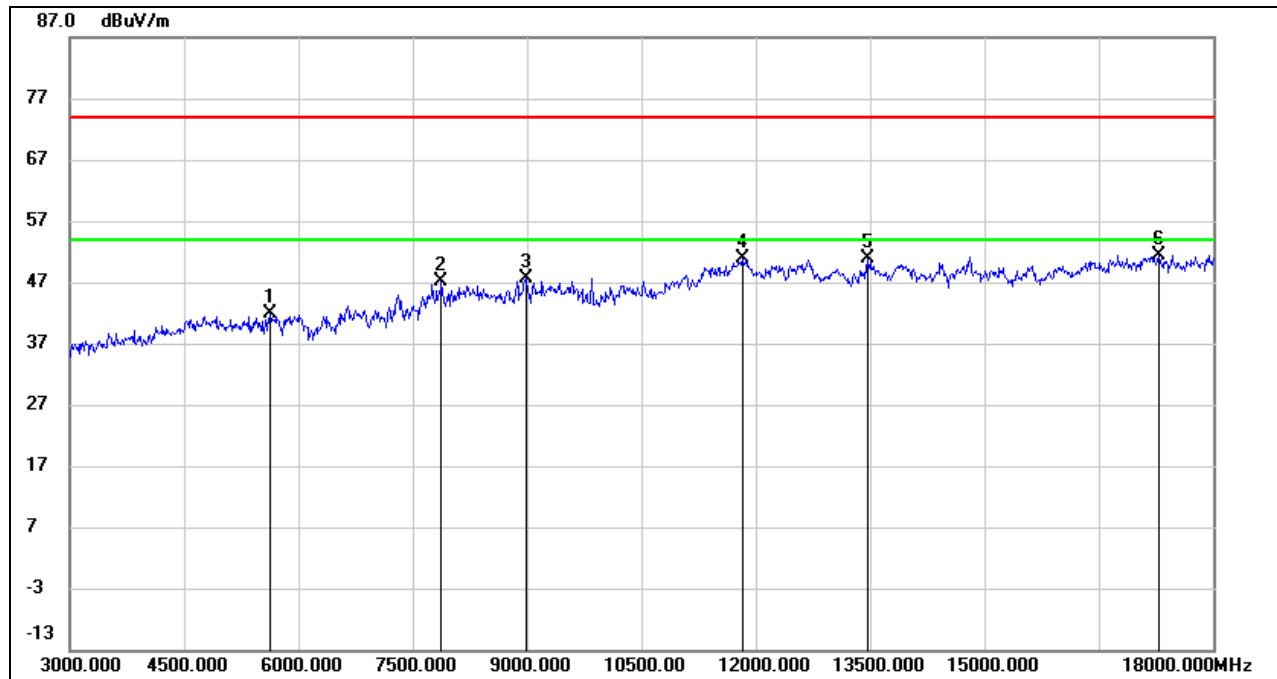
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 11, HORIZONTAL)**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 5970.000 | 39.11 | 3.18 | 42.29 | 74.00 | -31.71 | peak |
| 2 | 8265.000 | 37.16 | 9.11 | 46.27 | 74.00 | -27.73 | peak |
| 3 | 8970.000 | 37.98 | 10.32 | 48.30 | 74.00 | -25.70 | peak |
| 4 | 11820.000 | 35.82 | 15.58 | 51.40 | 74.00 | -22.60 | peak |
| 5 | 14790.000 | 34.19 | 16.78 | 50.97 | 74.00 | -23.03 | peak |
| 6 | 17985.000 | 28.78 | 22.67 | 51.45 | 74.00 | -22.55 | peak |

- Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 11, VERTICAL)**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 5625.000 | 39.38 | 2.46 | 41.84 | 74.00 | -32.16 | peak |
| 2 | 7875.000 | 39.15 | 8.03 | 47.18 | 74.00 | -26.82 | peak |
| 3 | 8985.000 | 37.21 | 10.47 | 47.68 | 74.00 | -26.32 | peak |
| 4 | 11820.000 | 35.41 | 15.58 | 50.99 | 74.00 | -23.01 | peak |
| 5 | 13470.000 | 34.46 | 16.38 | 50.84 | 74.00 | -23.16 | peak |
| 6 | 17280.000 | 30.53 | 20.92 | 51.45 | 74.00 | -22.55 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

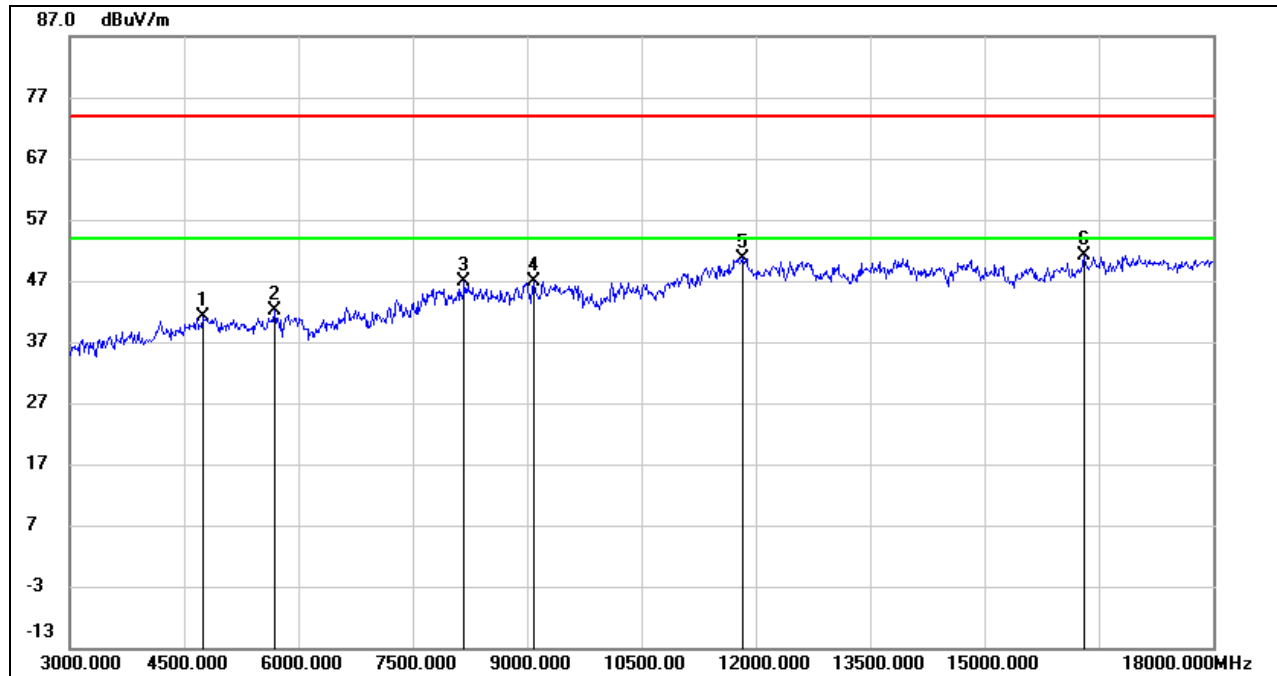
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

Note: Both the two antennas had been tested, but only the worst data was recorded in the report.



8.3.2. 802.1g MODE

HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 1, HORIZONTAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 4740.000 | 40.87 | 0.25 | 41.12 | 74.00 | -32.88 | peak |
| 2 | 5685.000 | 39.58 | 2.47 | 42.05 | 74.00 | -31.95 | peak |
| 3 | 8175.000 | 37.83 | 9.14 | 46.97 | 74.00 | -27.03 | peak |
| 4 | 9090.000 | 36.97 | 10.03 | 47.00 | 74.00 | -27.00 | peak |
| 5 | 11820.000 | 35.17 | 15.58 | 50.75 | 74.00 | -23.25 | peak |
| 6 | 16305.000 | 32.85 | 18.30 | 51.15 | 74.00 | -22.85 | peak |

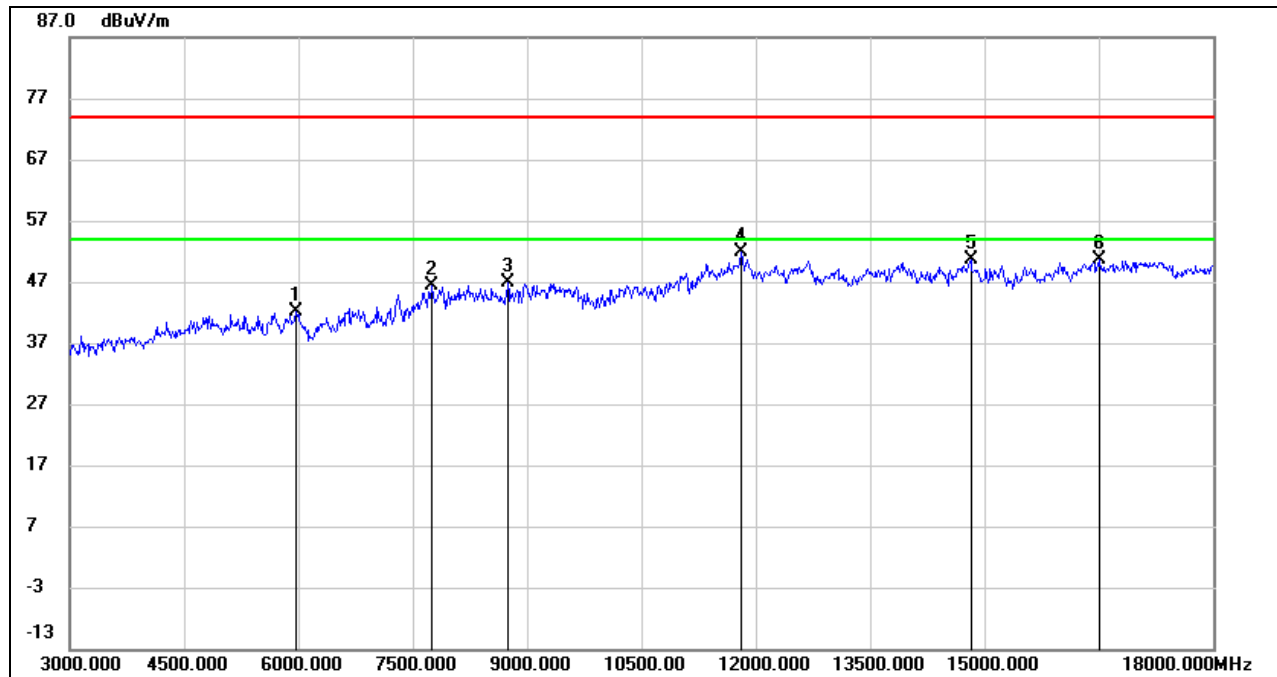
Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 1, VERTICAL)**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 5970.000 | 38.83 | 3.18 | 42.01 | 74.00 | -31.99 | peak |
| 2 | 7755.000 | 38.36 | 8.07 | 46.43 | 74.00 | -27.57 | peak |
| 3 | 8745.000 | 38.30 | 8.53 | 46.83 | 74.00 | -27.17 | peak |
| 4 | 11805.000 | 36.22 | 15.60 | 51.82 | 74.00 | -22.18 | peak |
| 5 | 14820.000 | 33.84 | 16.81 | 50.65 | 74.00 | -23.35 | peak |
| 6 | 16515.000 | 31.50 | 19.19 | 50.69 | 74.00 | -23.31 | peak |

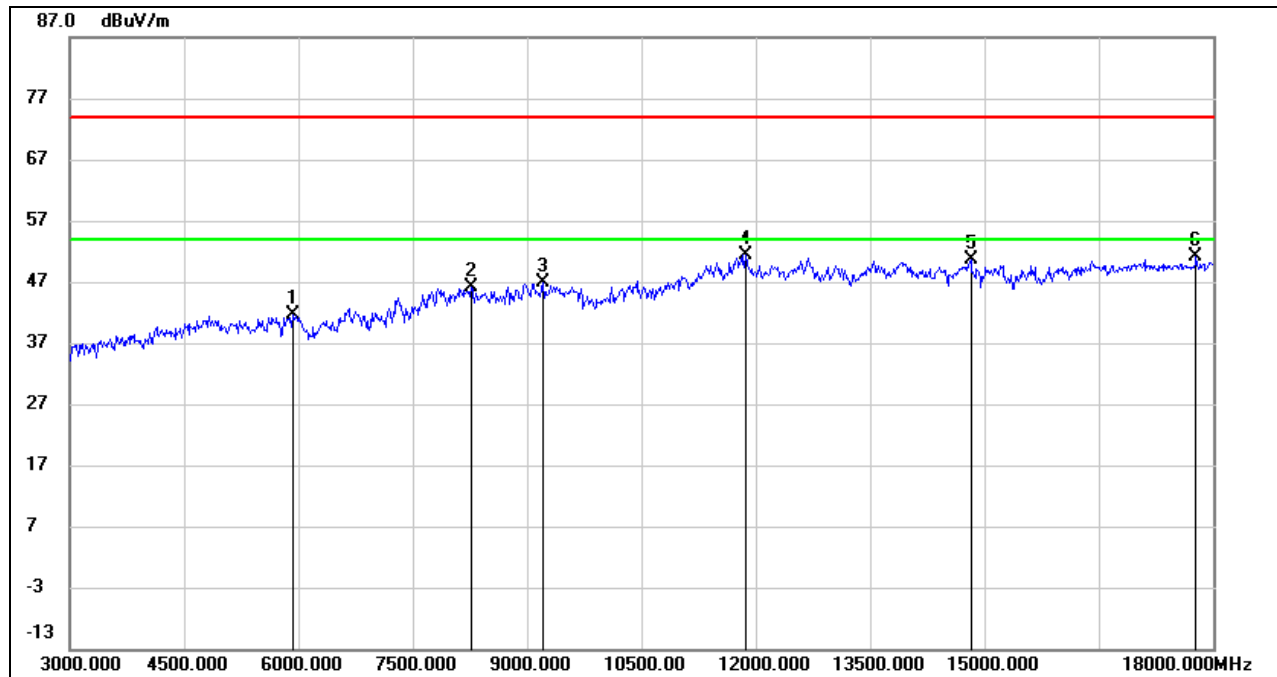
Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

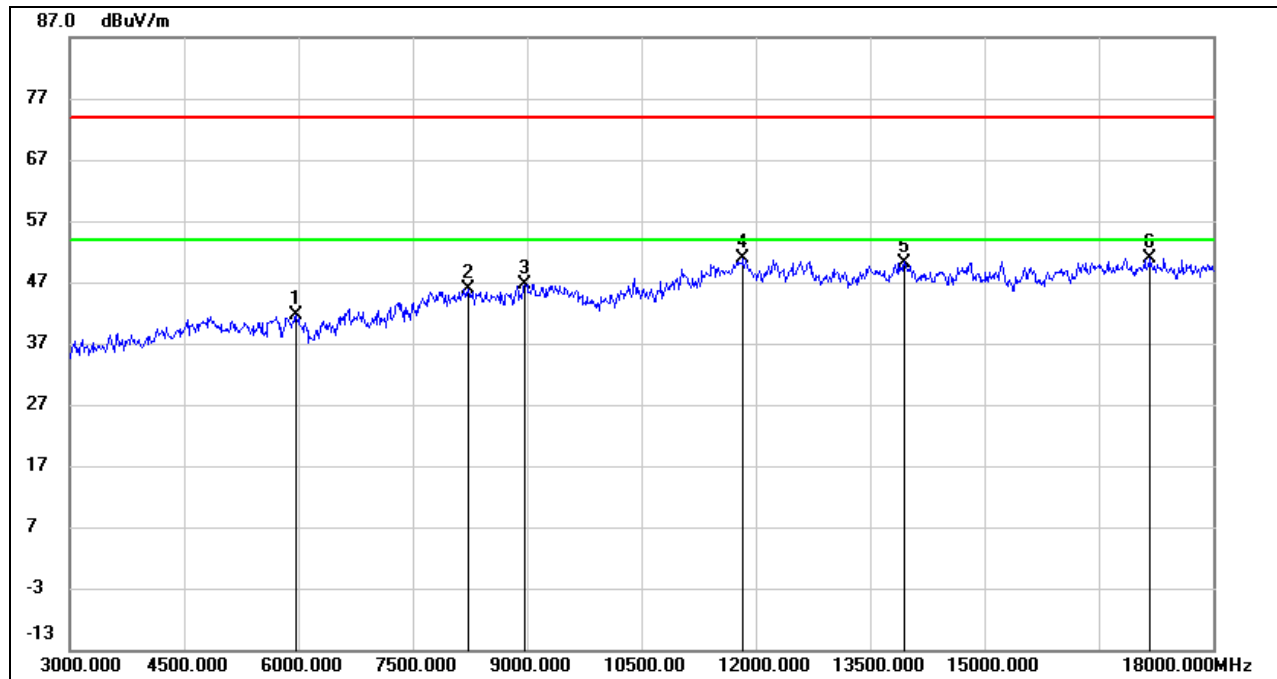
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 2, HORIZONTAL)**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 5925.000 | 38.65 | 3.01 | 41.66 | 74.00 | -32.34 | peak |
| 2 | 8265.000 | 36.98 | 9.11 | 46.09 | 74.00 | -27.91 | peak |
| 3 | 9210.000 | 37.51 | 9.34 | 46.85 | 74.00 | -27.15 | peak |
| 4 | 11865.000 | 35.80 | 15.52 | 51.32 | 74.00 | -22.68 | peak |
| 5 | 14820.000 | 33.71 | 16.81 | 50.52 | 74.00 | -23.48 | peak |
| 6 | 17775.000 | 28.63 | 22.53 | 51.16 | 74.00 | -22.84 | peak |

- Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 2, VERTICAL)**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1 | 5970.000 | 38.47 | 3.18 | 41.65 | 74.00 | -32.35 | peak |
| 2 | 8220.000 | 36.65 | 9.29 | 45.94 | 74.00 | -28.06 | peak |
| 3 | 8970.000 | 36.36 | 10.32 | 46.68 | 74.00 | -27.32 | peak |
| 4 | 11835.000 | 35.23 | 15.56 | 50.79 | 74.00 | -23.21 | peak |
| 5 | 13950.000 | 33.37 | 16.88 | 50.25 | 74.00 | -23.75 | peak |
| 6 | 17160.000 | 30.11 | 20.88 | 50.99 | 74.00 | -23.01 | peak |

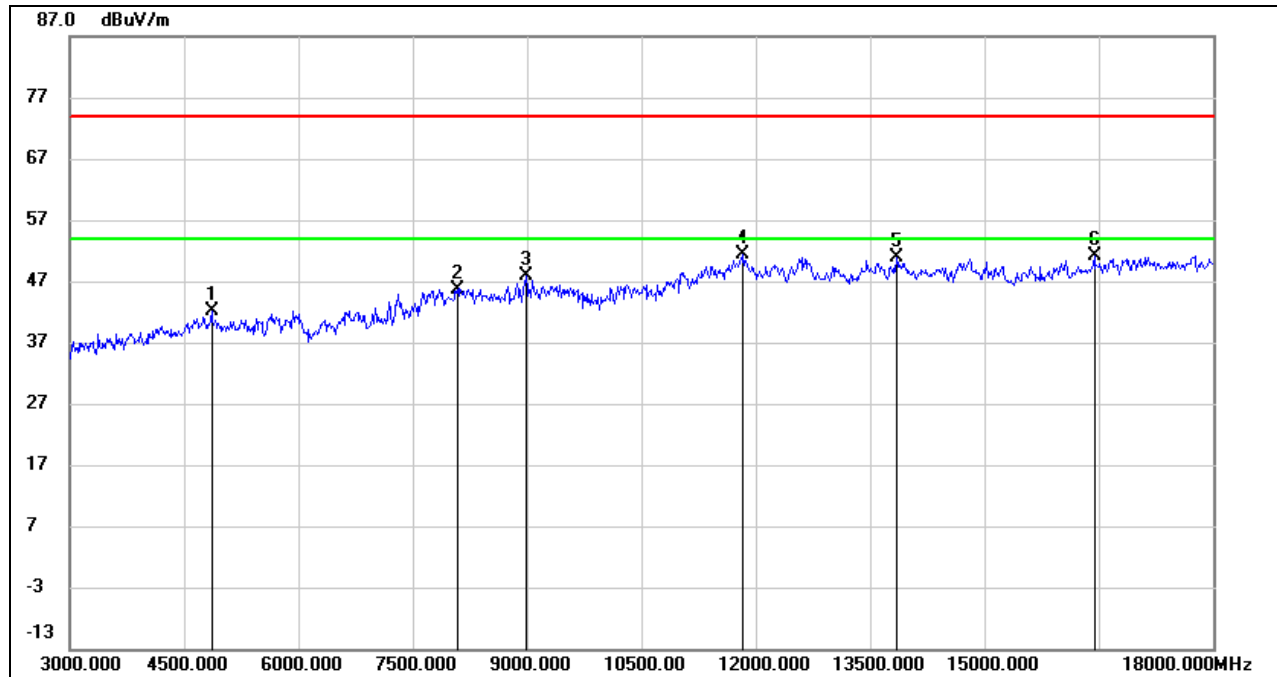
Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 6, HORIZONTAL)**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 4860.000 | 41.43 | 0.68 | 42.11 | 74.00 | -31.89 | peak |
| 2 | 8085.000 | 37.25 | 8.38 | 45.63 | 74.00 | -28.37 | peak |
| 3 | 8985.000 | 37.34 | 10.47 | 47.81 | 74.00 | -26.19 | peak |
| 4 | 11835.000 | 35.80 | 15.56 | 51.36 | 74.00 | -22.64 | peak |
| 5 | 13845.000 | 33.94 | 16.93 | 50.87 | 74.00 | -23.13 | peak |
| 6 | 16440.000 | 32.36 | 18.87 | 51.23 | 74.00 | -22.77 | peak |

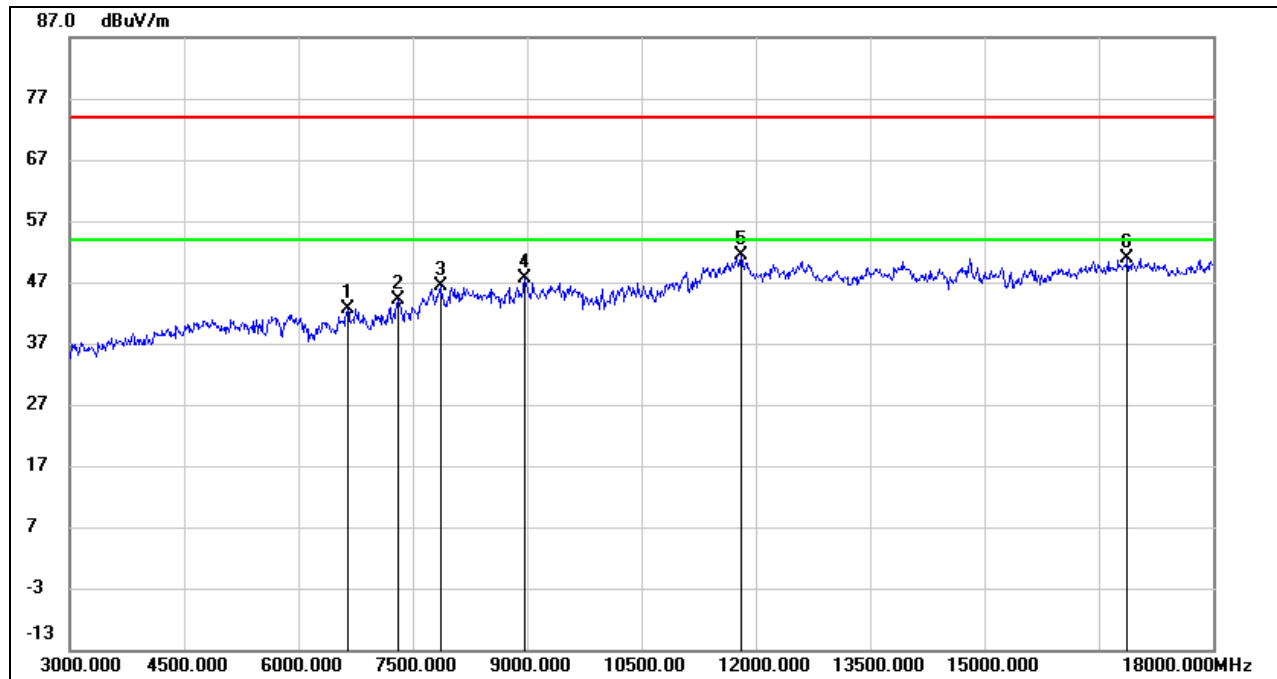
Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 6, VERTICAL)**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1 | 6645.000 | 37.12 | 5.51 | 42.63 | 74.00 | -31.37 | peak |
| 2 | 7305.000 | 36.65 | 7.37 | 44.02 | 74.00 | -29.98 | peak |
| 3 | 7860.000 | 38.25 | 8.07 | 46.32 | 74.00 | -27.68 | peak |
| 4 | 8970.000 | 37.20 | 10.32 | 47.52 | 74.00 | -26.48 | peak |
| 5 | 11805.000 | 35.71 | 15.60 | 51.31 | 74.00 | -22.69 | peak |
| 6 | 16875.000 | 30.87 | 19.92 | 50.79 | 74.00 | -23.21 | peak |

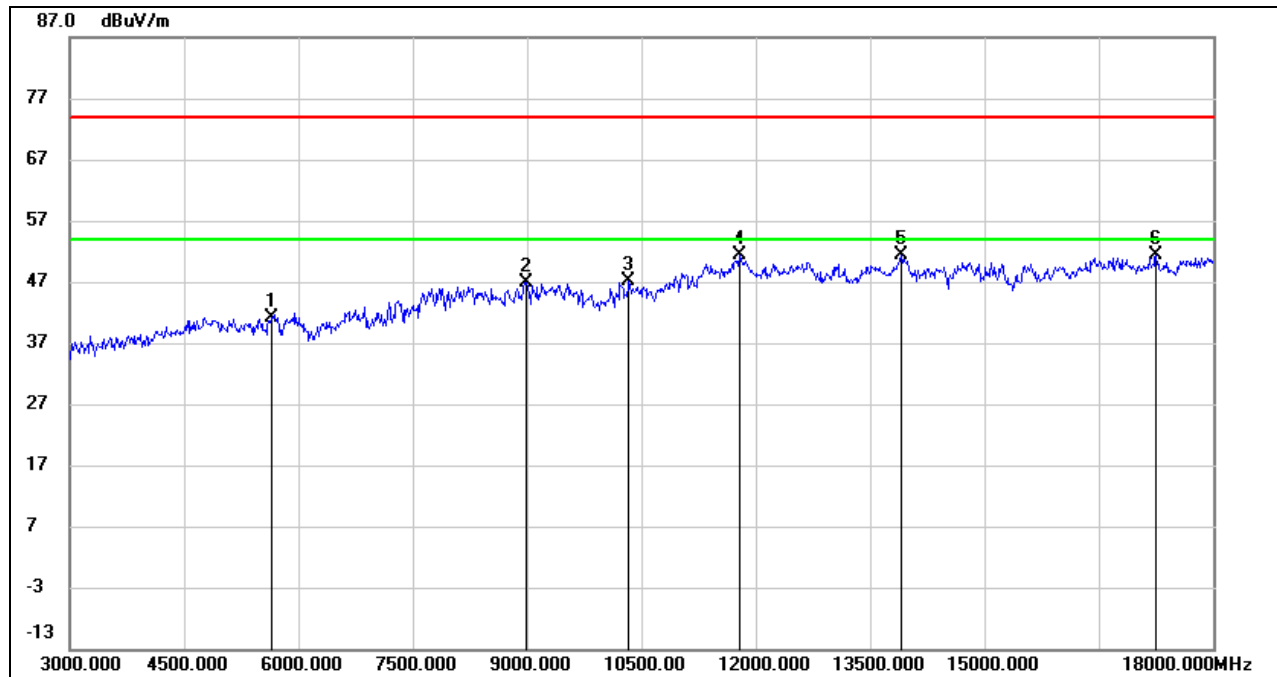
Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 10, HORIZONTAL)**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 5655.000 | 38.68 | 2.47 | 41.15 | 74.00 | -32.85 | peak |
| 2 | 8985.000 | 36.51 | 10.47 | 46.98 | 74.00 | -27.02 | peak |
| 3 | 10335.000 | 35.94 | 11.22 | 47.16 | 74.00 | -26.84 | peak |
| 4 | 11790.000 | 35.83 | 15.56 | 51.39 | 74.00 | -22.61 | peak |
| 5 | 13905.000 | 34.53 | 16.90 | 51.43 | 74.00 | -22.57 | peak |
| 6 | 17250.000 | 30.31 | 20.97 | 51.28 | 74.00 | -22.72 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.

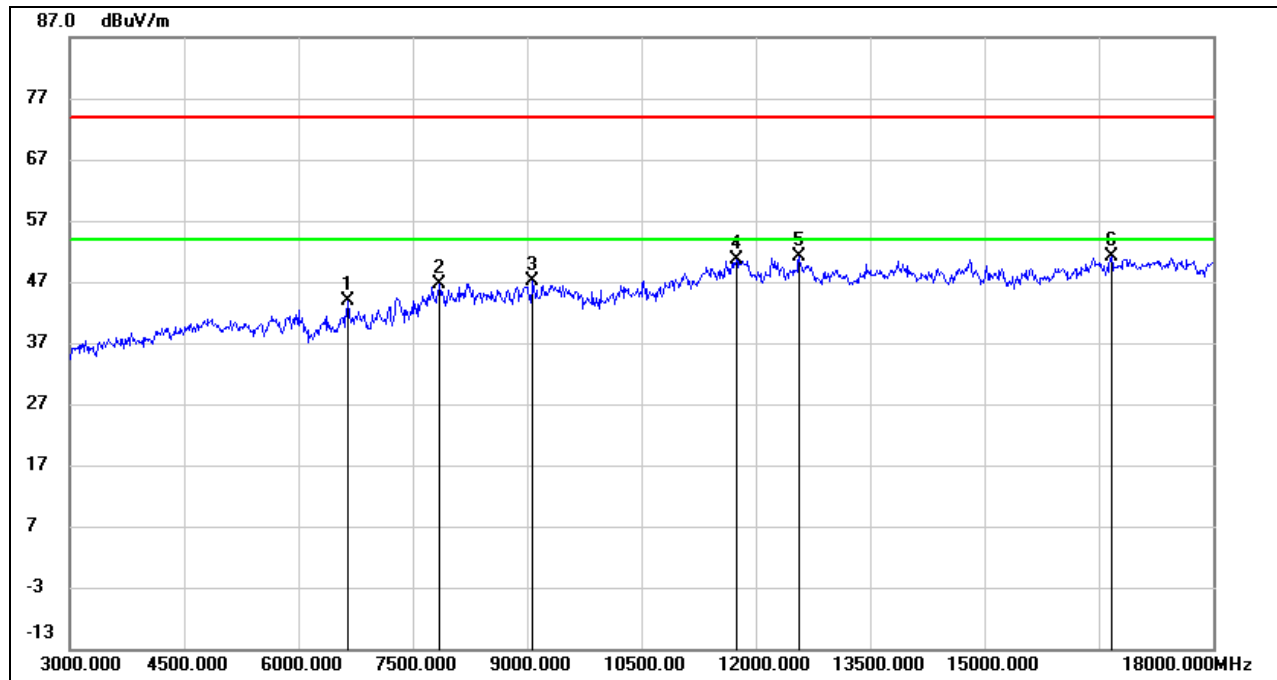
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

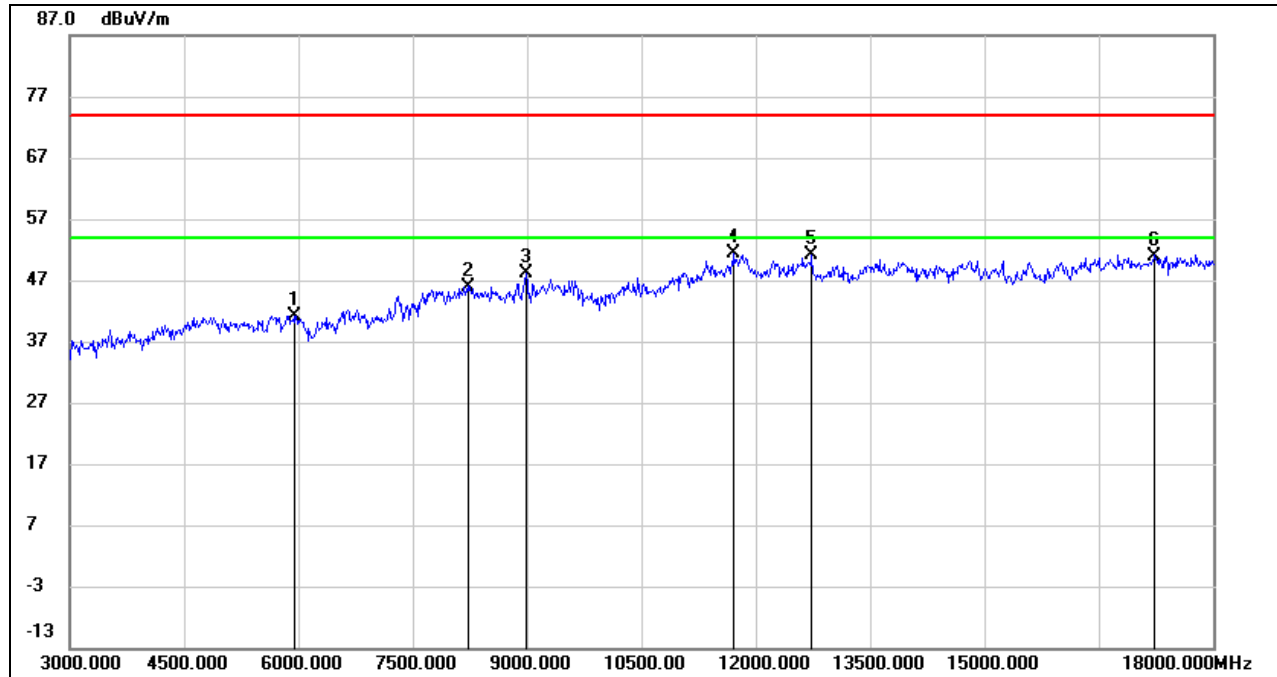
HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 10, VERTICAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1 | 6645.000 | 38.32 | 5.51 | 43.83 | 74.00 | -30.17 | peak |
| 2 | 7845.000 | 38.53 | 8.12 | 46.65 | 74.00 | -27.35 | peak |
| 3 | 9075.000 | 37.02 | 10.13 | 47.15 | 74.00 | -26.85 | peak |
| 4 | 11745.000 | 35.22 | 15.31 | 50.53 | 74.00 | -23.47 | peak |
| 5 | 12570.000 | 35.80 | 15.31 | 51.11 | 74.00 | -22.89 | peak |
| 6 | 16665.000 | 31.44 | 19.60 | 51.04 | 74.00 | -22.96 | peak |

- Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 11, HORIZONTAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1 | 5955.000 | 38.09 | 3.13 | 41.22 | 74.00 | -32.78 | peak |
| 2 | 8220.000 | 36.71 | 9.29 | 46.00 | 74.00 | -28.00 | peak |
| 3 | 8985.000 | 37.64 | 10.47 | 48.11 | 74.00 | -25.89 | peak |
| 4 | 11715.000 | 36.12 | 15.15 | 51.27 | 74.00 | -22.73 | peak |
| 5 | 12735.000 | 35.66 | 15.53 | 51.19 | 74.00 | -22.81 | peak |
| 6 | 17235.000 | 30.01 | 20.99 | 51.00 | 74.00 | -23.00 | peak |

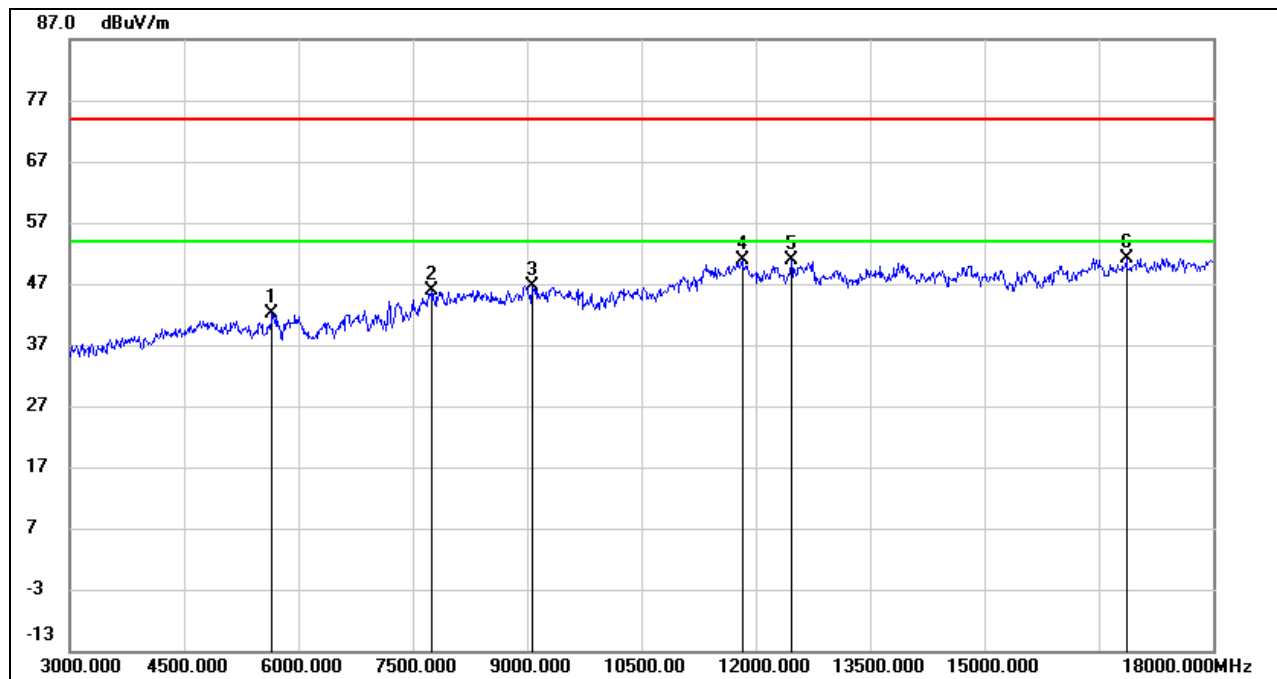
Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 11, VERTICAL)**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 5655.000 | 39.56 | 2.47 | 42.03 | 74.00 | -31.97 | peak |
| 2 | 7755.000 | 37.90 | 8.07 | 45.97 | 74.00 | -28.03 | peak |
| 3 | 9075.000 | 36.48 | 10.13 | 46.61 | 74.00 | -27.39 | peak |
| 4 | 11820.000 | 35.18 | 15.58 | 50.76 | 74.00 | -23.24 | peak |
| 5 | 12465.000 | 35.40 | 15.42 | 50.82 | 74.00 | -23.18 | peak |
| 6 | 16860.000 | 31.35 | 19.88 | 51.23 | 74.00 | -22.77 | peak |

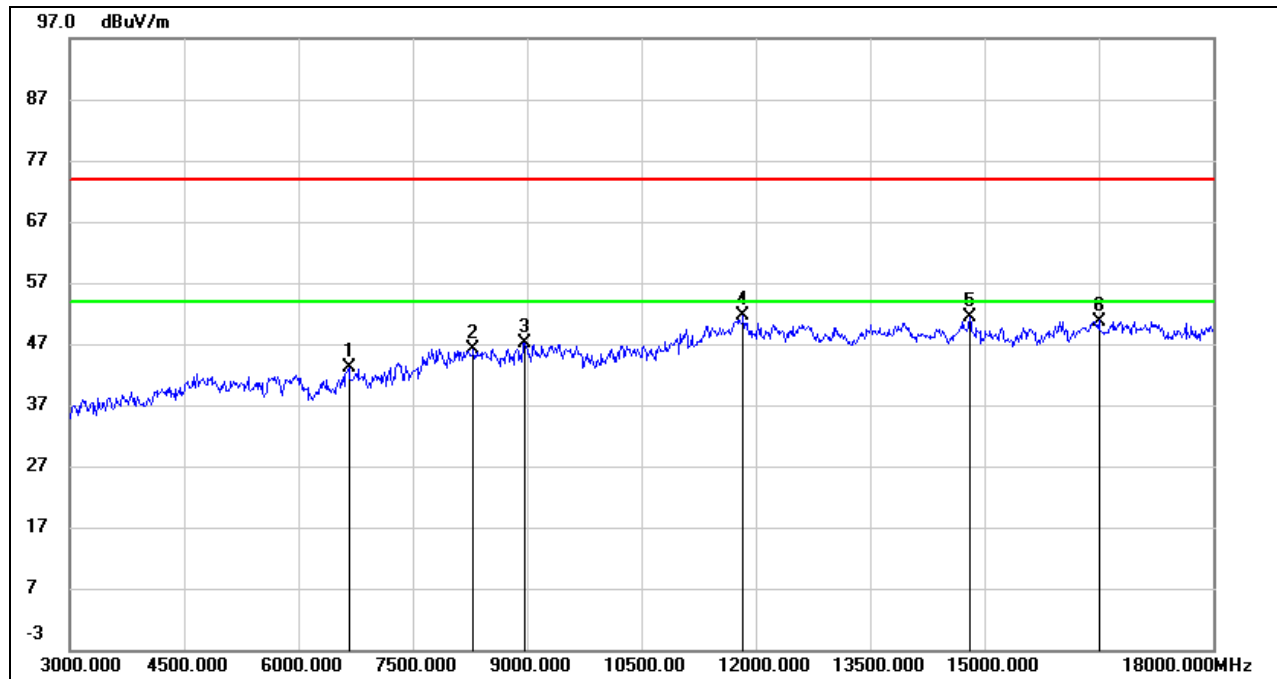
Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**8.3.3. 802.11n HT20 MODE****HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 1, HORIZONTAL)**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 6660.000 | 37.61 | 5.52 | 43.13 | 74.00 | -30.87 | peak |
| 2 | 8295.000 | 37.22 | 8.99 | 46.21 | 74.00 | -27.79 | peak |
| 3 | 8970.000 | 36.89 | 10.32 | 47.21 | 74.00 | -26.79 | peak |
| 4 | 11835.000 | 36.01 | 15.56 | 51.57 | 74.00 | -22.43 | peak |
| 5 | 14805.000 | 34.69 | 16.80 | 51.49 | 74.00 | -22.51 | peak |
| 6 | 16500.000 | 31.63 | 19.12 | 50.75 | 74.00 | -23.25 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.

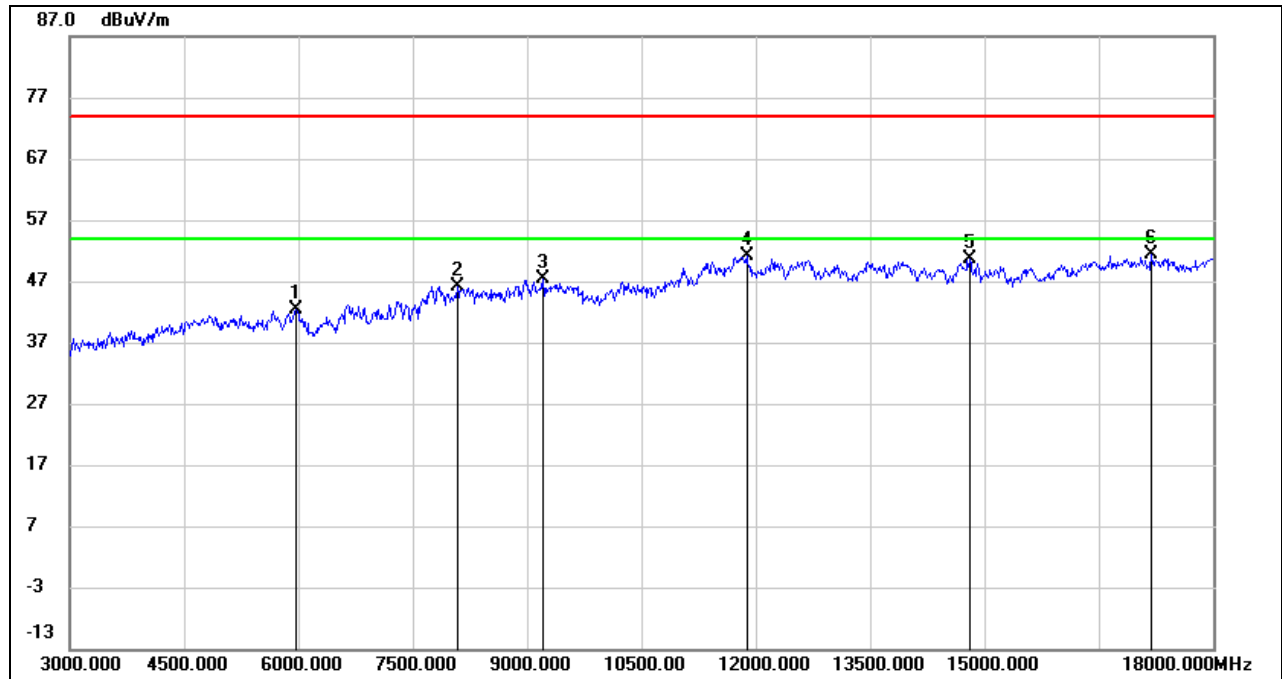
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

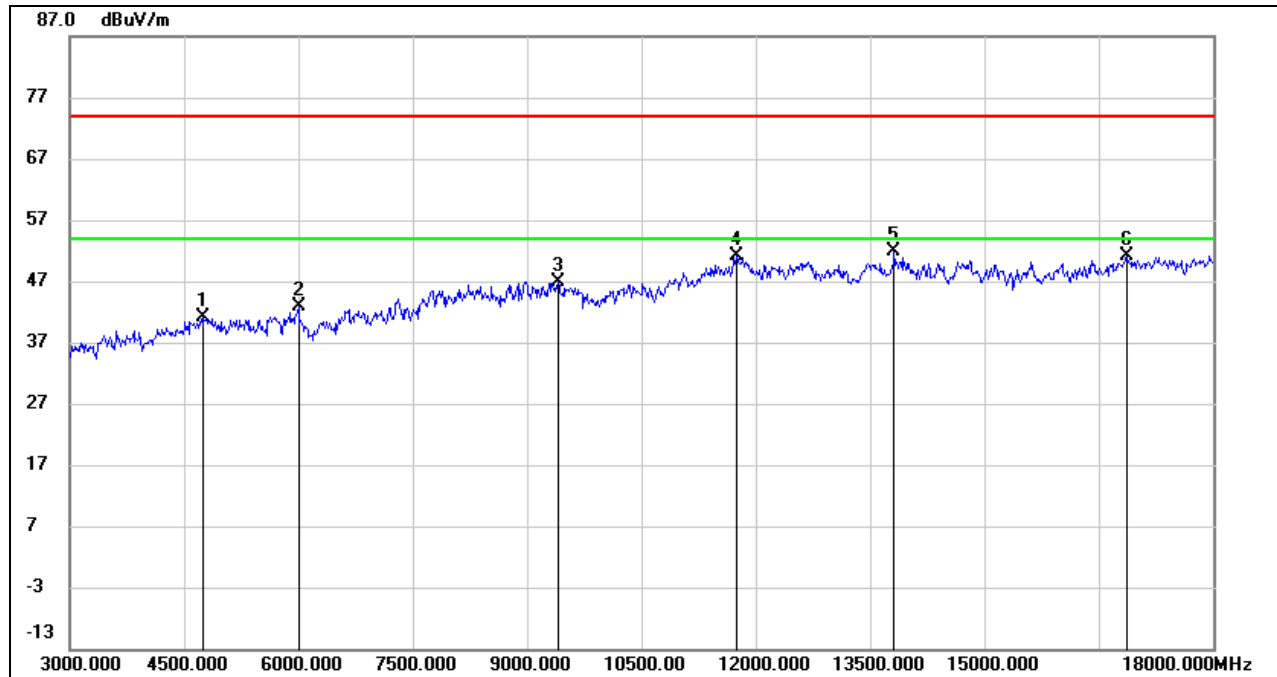
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 1, VERTICAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1 | 5970.000 | 39.11 | 3.18 | 42.29 | 74.00 | -31.71 | peak |
| 2 | 8085.000 | 37.85 | 8.38 | 46.23 | 74.00 | -27.77 | peak |
| 3 | 9210.000 | 37.98 | 9.34 | 47.32 | 74.00 | -26.68 | peak |
| 4 | 11880.000 | 35.59 | 15.49 | 51.08 | 74.00 | -22.92 | peak |
| 5 | 14805.000 | 33.83 | 16.80 | 50.63 | 74.00 | -23.37 | peak |
| 6 | 17190.000 | 30.32 | 21.00 | 51.32 | 74.00 | -22.68 | peak |

- Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 2, HORIZONTAL)**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 4755.000 | 40.73 | 0.33 | 41.06 | 74.00 | -32.94 | peak |
| 2 | 6000.000 | 39.48 | 3.30 | 42.78 | 74.00 | -31.22 | peak |
| 3 | 9405.000 | 36.53 | 10.32 | 46.85 | 74.00 | -27.15 | peak |
| 4 | 11745.000 | 35.71 | 15.31 | 51.02 | 74.00 | -22.98 | peak |
| 5 | 13815.000 | 34.87 | 16.94 | 51.81 | 74.00 | -22.19 | peak |
| 6 | 16860.000 | 31.17 | 19.88 | 51.05 | 74.00 | -22.95 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.

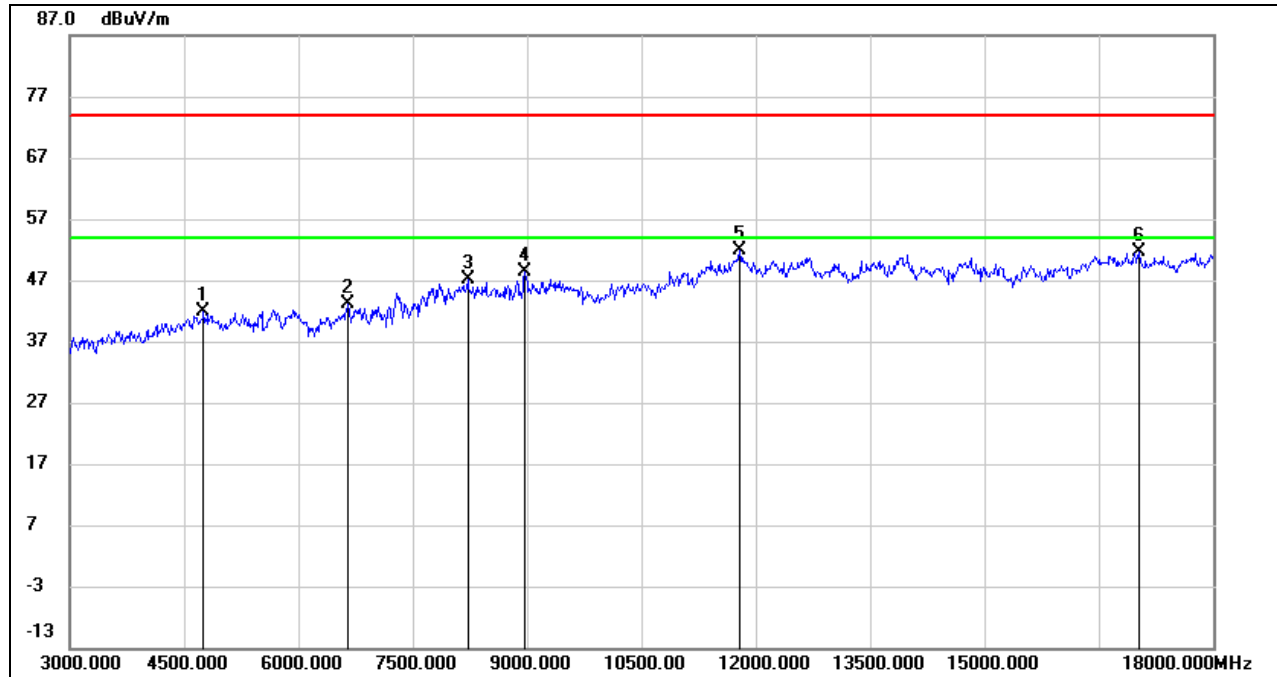
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 2, VERTICAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1 | 4755.000 | 41.59 | 0.33 | 41.92 | 74.00 | -32.08 | peak |
| 2 | 6645.000 | 37.50 | 5.51 | 43.01 | 74.00 | -30.99 | peak |
| 3 | 8220.000 | 37.82 | 9.29 | 47.11 | 74.00 | -26.89 | peak |
| 4 | 8970.000 | 38.14 | 10.32 | 48.46 | 74.00 | -25.54 | peak |
| 5 | 11790.000 | 36.31 | 15.56 | 51.87 | 74.00 | -22.13 | peak |
| 6 | 17025.000 | 31.23 | 20.33 | 51.56 | 74.00 | -22.44 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

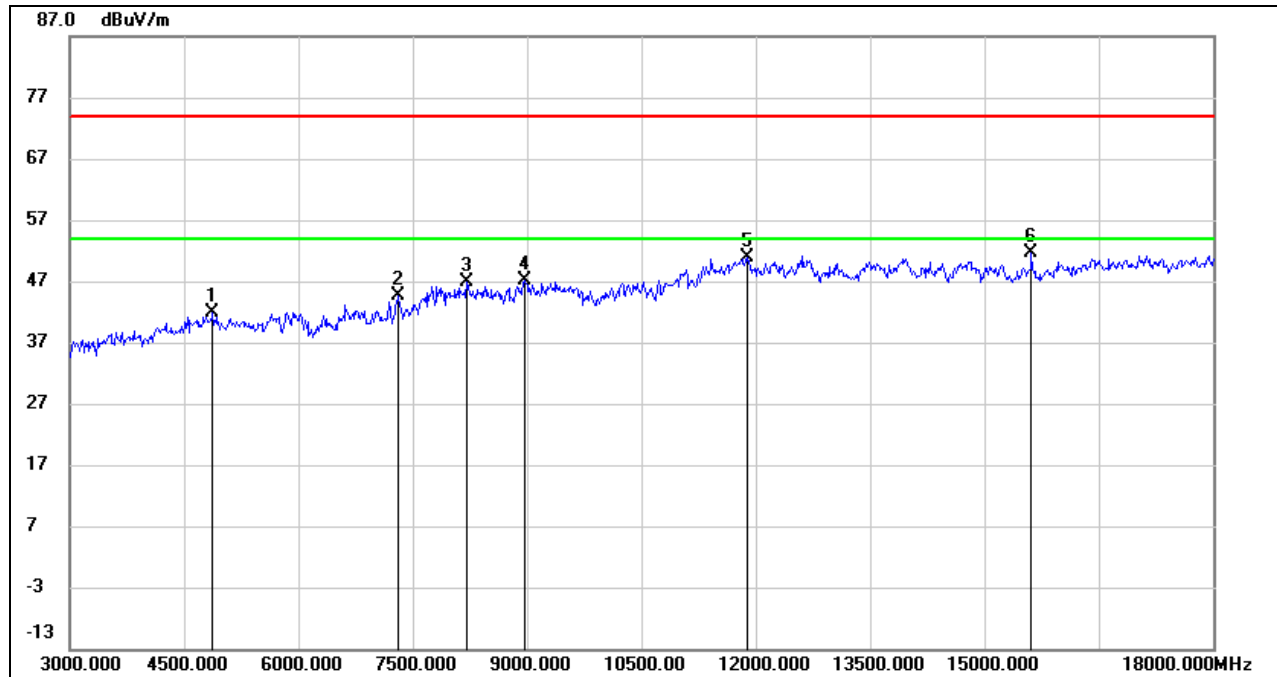
3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

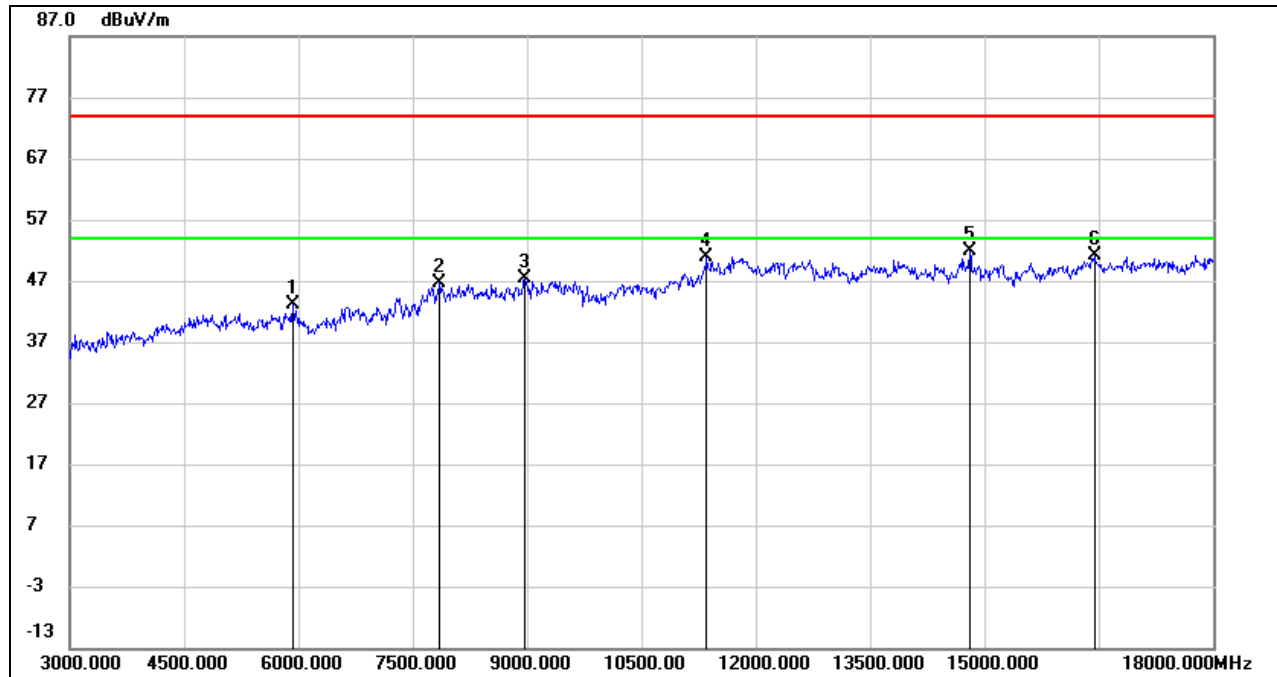


HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 6, HORIZONTAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 4875.000 | 41.19 | 0.71 | 41.90 | 74.00 | -32.10 | peak |
| 2 | 7305.000 | 37.16 | 7.37 | 44.53 | 74.00 | -29.47 | peak |
| 3 | 8205.000 | 37.51 | 9.34 | 46.85 | 74.00 | -27.15 | peak |
| 4 | 8970.000 | 36.80 | 10.32 | 47.12 | 74.00 | -26.88 | peak |
| 5 | 11880.000 | 35.39 | 15.49 | 50.88 | 74.00 | -23.12 | peak |
| 6 | 15615.000 | 34.89 | 16.71 | 51.60 | 74.00 | -22.40 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 6, VERTICAL)**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1 | 5925.000 | 40.11 | 3.01 | 43.12 | 74.00 | -30.88 | peak |
| 2 | 7845.000 | 38.39 | 8.12 | 46.51 | 74.00 | -27.49 | peak |
| 3 | 8970.000 | 36.97 | 10.32 | 47.29 | 74.00 | -26.71 | peak |
| 4 | 11355.000 | 36.79 | 14.08 | 50.87 | 74.00 | -23.13 | peak |
| 5 | 14805.000 | 35.16 | 16.80 | 51.96 | 74.00 | -22.04 | peak |
| 6 | 16440.000 | 32.30 | 18.87 | 51.17 | 74.00 | -22.83 | peak |

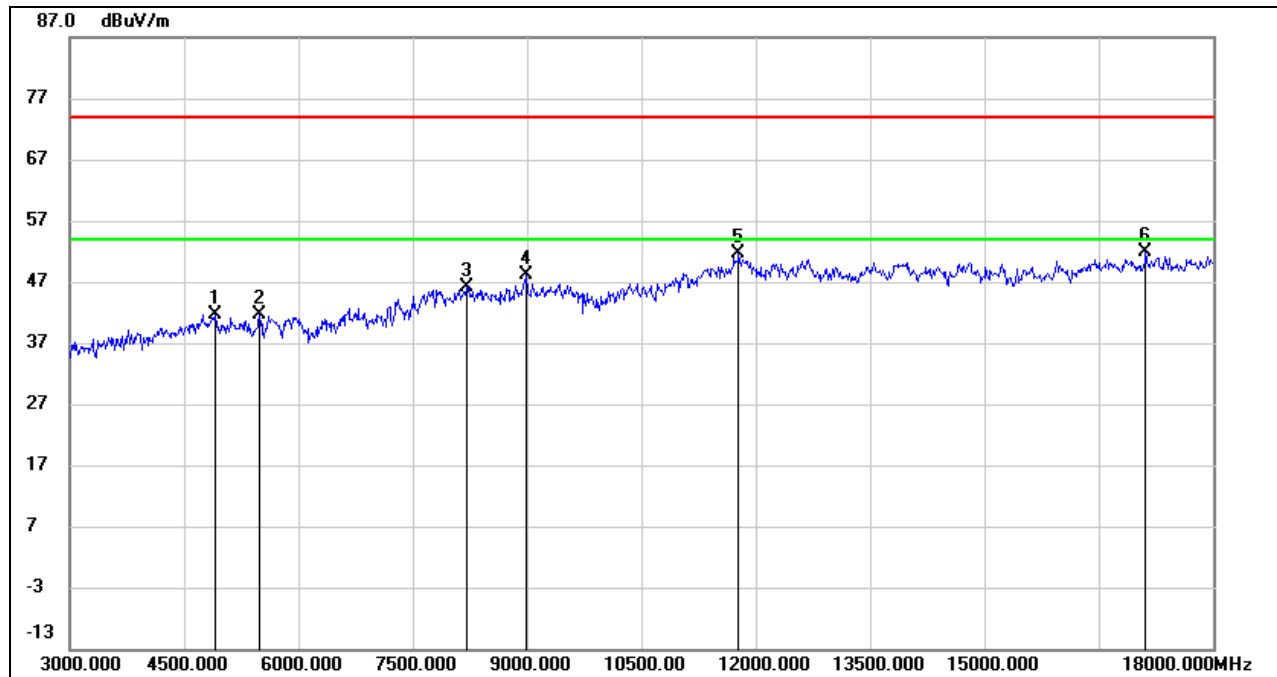
Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 10, HORIZONTAL)**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 4905.000 | 40.88 | 0.75 | 41.63 | 74.00 | -32.37 | peak |
| 2 | 5490.000 | 39.38 | 2.14 | 41.52 | 74.00 | -32.48 | peak |
| 3 | 8205.000 | 36.86 | 9.34 | 46.20 | 74.00 | -27.80 | peak |
| 4 | 8985.000 | 37.69 | 10.47 | 48.16 | 74.00 | -25.84 | peak |
| 5 | 11775.000 | 36.08 | 15.47 | 51.55 | 74.00 | -22.45 | peak |
| 6 | 17115.000 | 31.07 | 20.69 | 51.76 | 74.00 | -22.24 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.

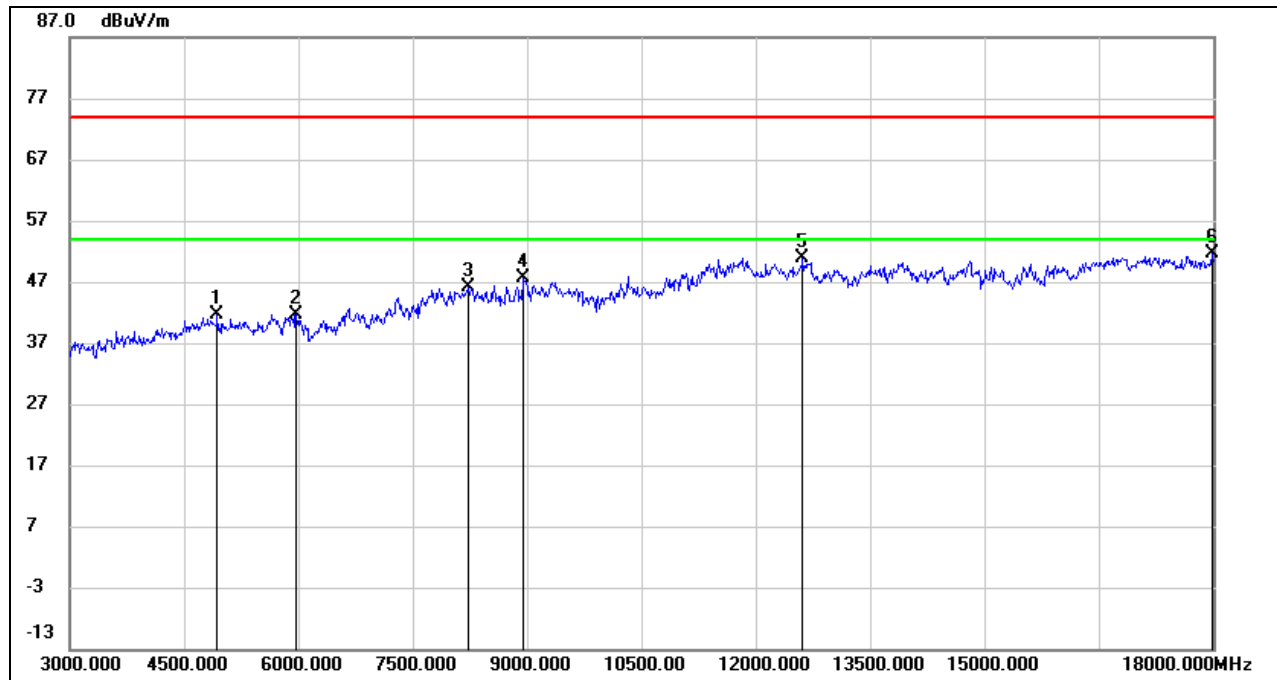
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

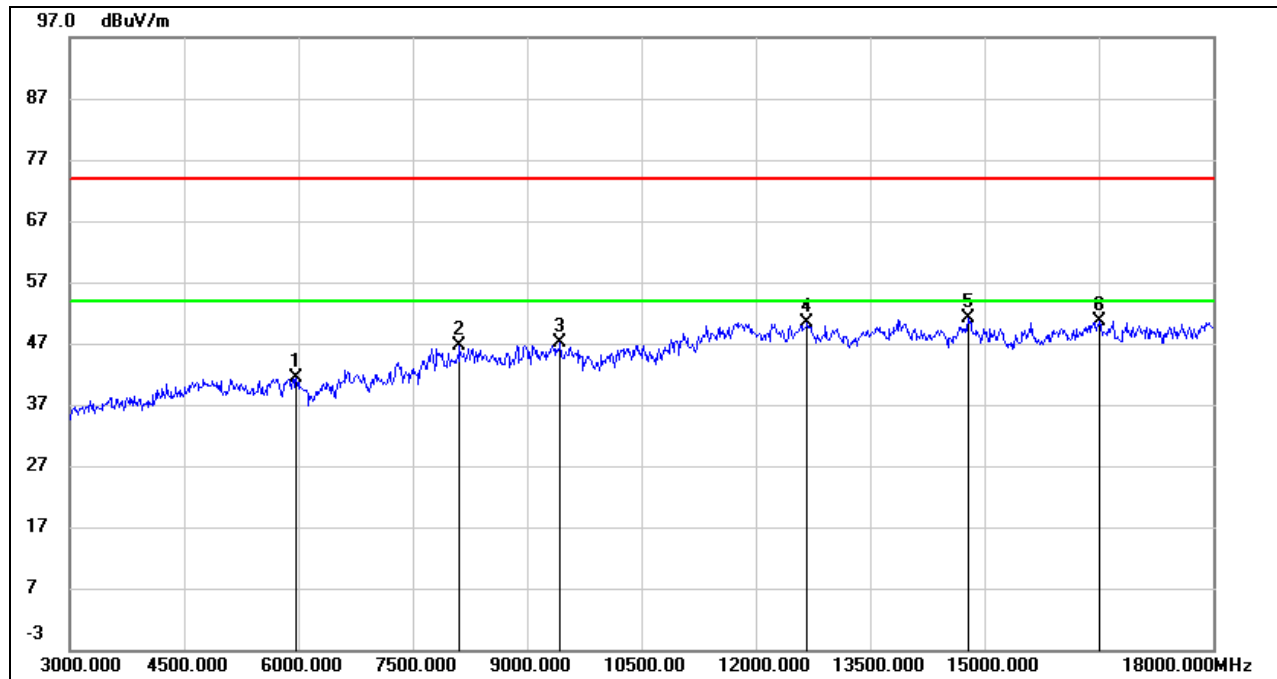
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 10, VERTICAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1 | 4935.000 | 40.84 | 0.80 | 41.64 | 74.00 | -32.36 | peak |
| 2 | 5970.000 | 38.52 | 3.18 | 41.70 | 74.00 | -32.30 | peak |
| 3 | 8220.000 | 36.77 | 9.29 | 46.06 | 74.00 | -27.94 | peak |
| 4 | 8955.000 | 37.40 | 10.15 | 47.55 | 74.00 | -26.45 | peak |
| 5 | 12615.000 | 35.67 | 15.31 | 50.98 | 74.00 | -23.02 | peak |
| 6 | 17985.000 | 28.85 | 22.67 | 51.52 | 74.00 | -22.48 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 11, HORIZONTAL)**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 5970.000 | 38.23 | 3.18 | 41.41 | 74.00 | -32.59 | peak |
| 2 | 8115.000 | 38.10 | 8.64 | 46.74 | 74.00 | -27.26 | peak |
| 3 | 9435.000 | 36.71 | 10.36 | 47.07 | 74.00 | -26.93 | peak |
| 4 | 12675.000 | 34.87 | 15.42 | 50.29 | 74.00 | -23.71 | peak |
| 5 | 14790.000 | 34.33 | 16.78 | 51.11 | 74.00 | -22.89 | peak |
| 6 | 16515.000 | 31.41 | 19.19 | 50.60 | 74.00 | -23.40 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.

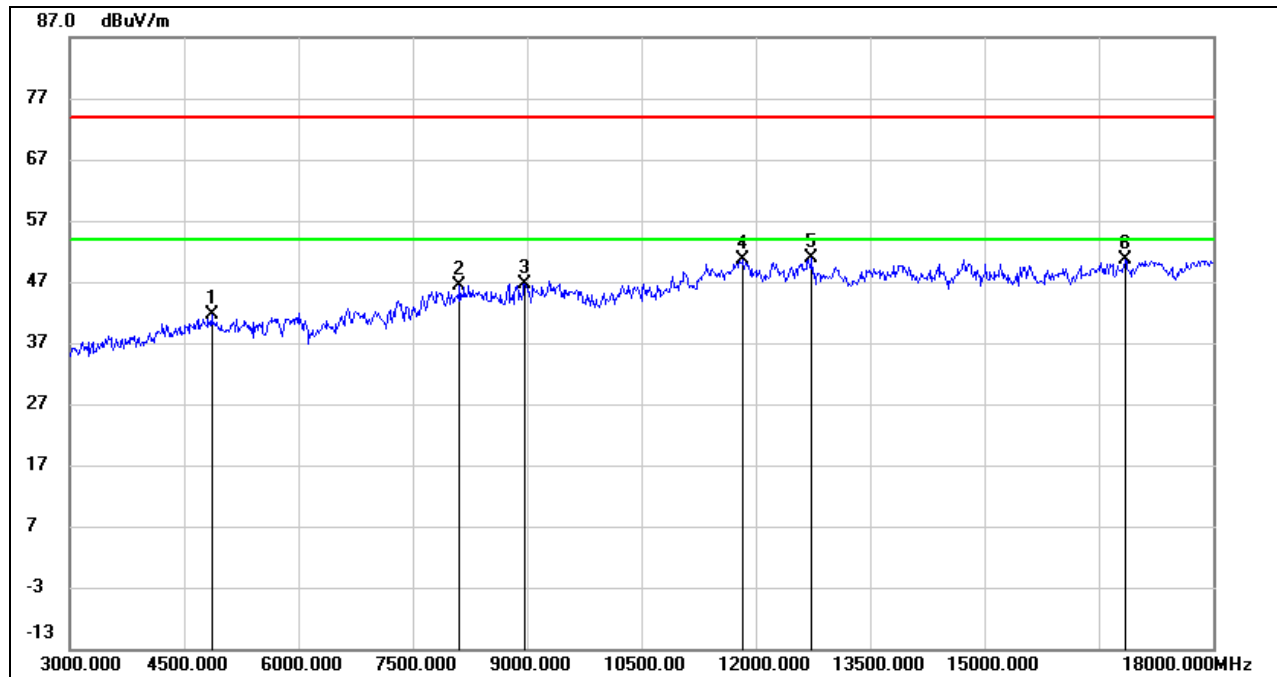
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 11, VERTICAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1 | 4860.000 | 40.90 | 0.68 | 41.58 | 74.00 | -32.42 | peak |
| 2 | 8115.000 | 37.70 | 8.64 | 46.34 | 74.00 | -27.66 | peak |
| 3 | 8970.000 | 36.30 | 10.32 | 46.62 | 74.00 | -27.38 | peak |
| 4 | 11835.000 | 34.99 | 15.56 | 50.55 | 74.00 | -23.45 | peak |
| 5 | 12735.000 | 35.29 | 15.53 | 50.82 | 74.00 | -23.18 | peak |
| 6 | 16845.000 | 30.77 | 19.85 | 50.62 | 74.00 | -23.38 | peak |

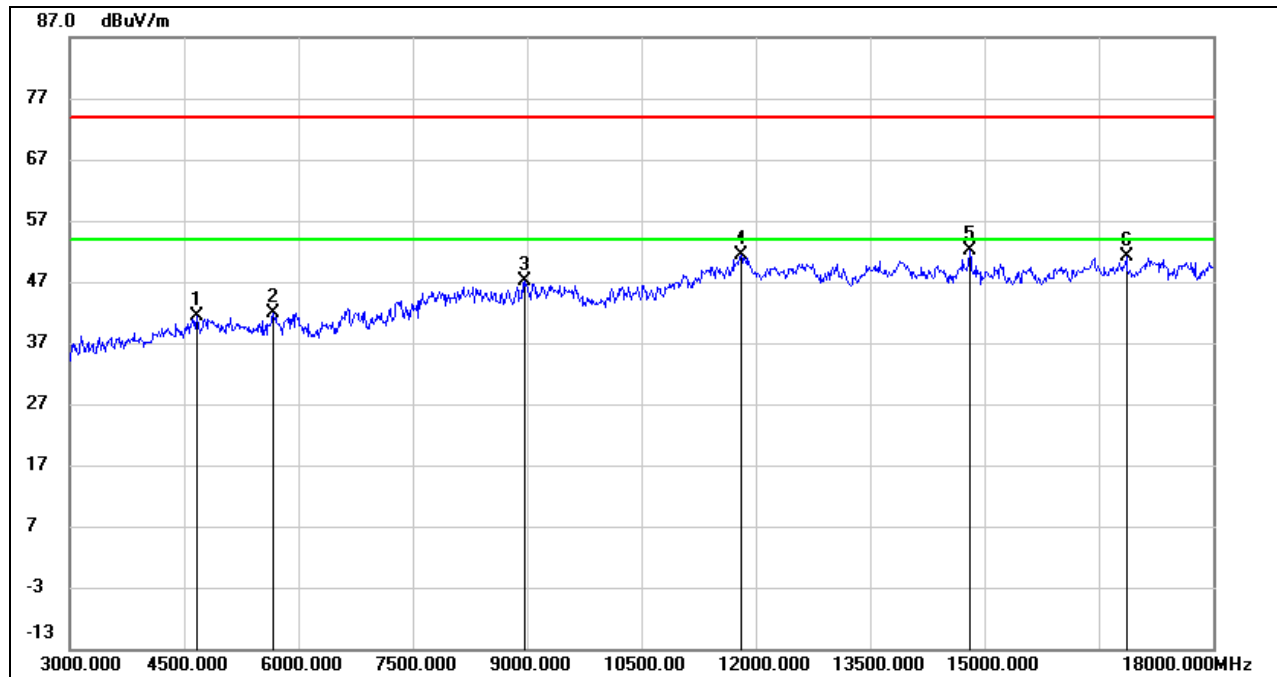
Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**8.3.4. 802.11n HT40 MODE****HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 3, HORIZONTAL)**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 4665.000 | 41.65 | -0.20 | 41.45 | 74.00 | -32.55 | peak |
| 2 | 5670.000 | 39.38 | 2.47 | 41.85 | 74.00 | -32.15 | peak |
| 3 | 8970.000 | 36.70 | 10.32 | 47.02 | 74.00 | -26.98 | peak |
| 4 | 11805.000 | 35.66 | 15.60 | 51.26 | 74.00 | -22.74 | peak |
| 5 | 14805.000 | 35.34 | 16.80 | 52.14 | 74.00 | -21.86 | peak |
| 6 | 16860.000 | 31.23 | 19.88 | 51.11 | 74.00 | -22.89 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.

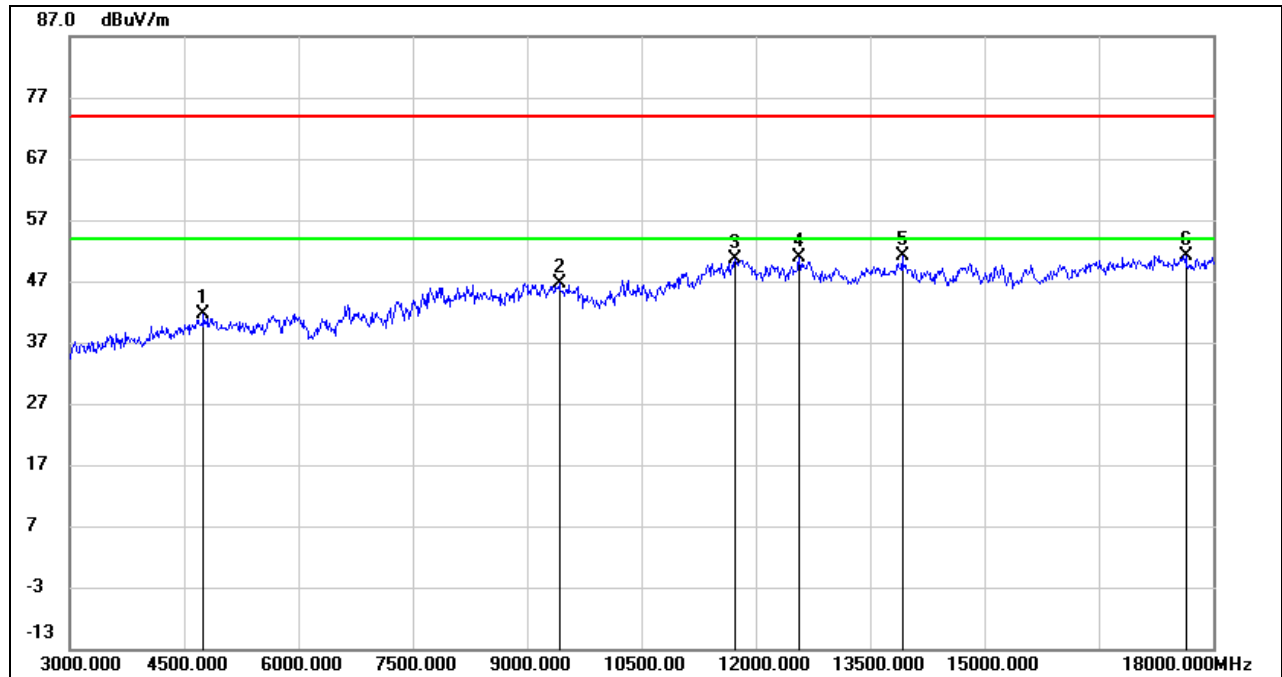
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

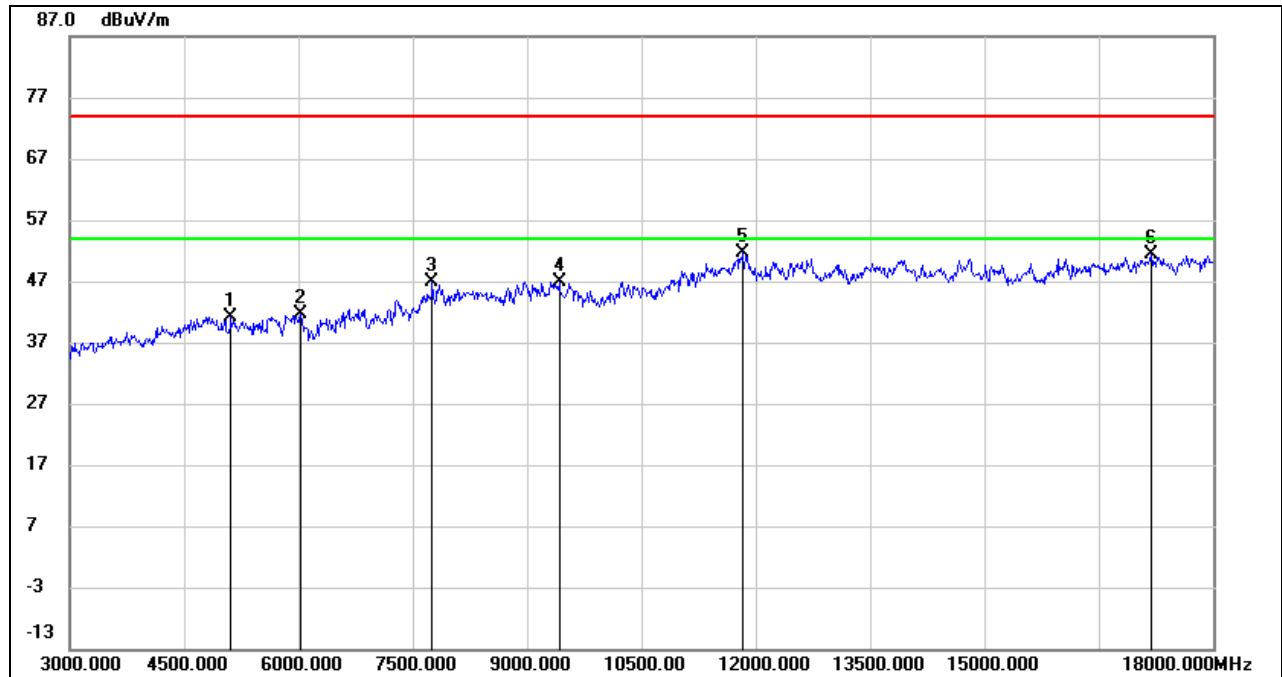
HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 3, VERTICAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1 | 4755.000 | 41.35 | 0.33 | 41.68 | 74.00 | -32.32 | peak |
| 2 | 9420.000 | 36.27 | 10.34 | 46.61 | 74.00 | -27.39 | peak |
| 3 | 11730.000 | 35.31 | 15.23 | 50.54 | 74.00 | -23.46 | peak |
| 4 | 12570.000 | 35.56 | 15.31 | 50.87 | 74.00 | -23.13 | peak |
| 5 | 13920.000 | 34.35 | 16.89 | 51.24 | 74.00 | -22.76 | peak |
| 6 | 17640.000 | 29.64 | 21.48 | 51.12 | 74.00 | -22.88 | peak |

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

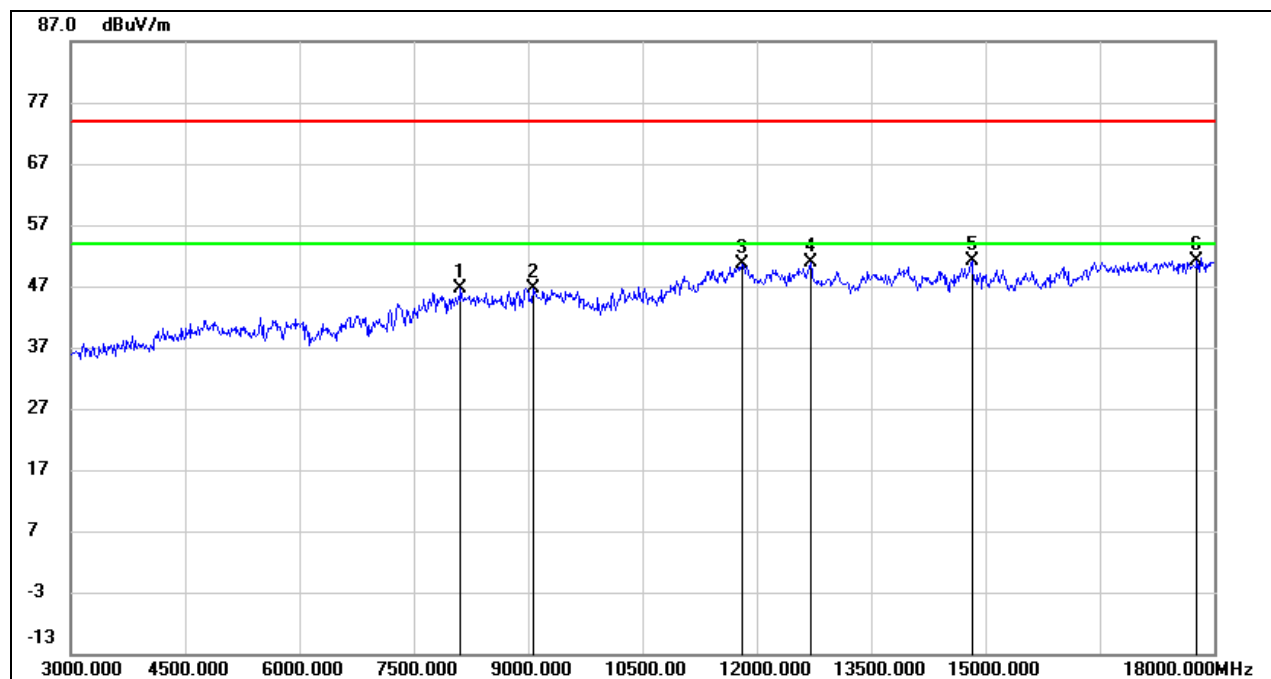
HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 4, HORIZONTAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 5115.000 | 39.62 | 1.60 | 41.22 | 74.00 | -32.78 | peak |
| 2 | 6030.000 | 38.41 | 3.30 | 41.71 | 74.00 | -32.29 | peak |
| 3 | 7755.000 | 38.76 | 8.07 | 46.83 | 74.00 | -27.17 | peak |
| 4 | 9420.000 | 36.55 | 10.34 | 46.89 | 74.00 | -27.11 | peak |
| 5 | 11835.000 | 36.03 | 15.56 | 51.59 | 74.00 | -22.41 | peak |
| 6 | 17190.000 | 30.41 | 21.00 | 51.41 | 74.00 | -22.59 | peak |

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 4, VERTICAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1 | 8115.000 | 38.07 | 8.64 | 46.71 | 74.00 | -27.29 | peak |
| 2 | 9075.000 | 36.62 | 10.13 | 46.75 | 74.00 | -27.25 | peak |
| 3 | 11805.000 | 35.06 | 15.60 | 50.66 | 74.00 | -23.34 | peak |
| 4 | 12705.000 | 35.29 | 15.48 | 50.77 | 74.00 | -23.23 | peak |
| 5 | 14820.000 | 34.40 | 16.81 | 51.21 | 74.00 | -22.79 | peak |
| 6 | 17775.000 | 28.59 | 22.53 | 51.12 | 74.00 | -22.88 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

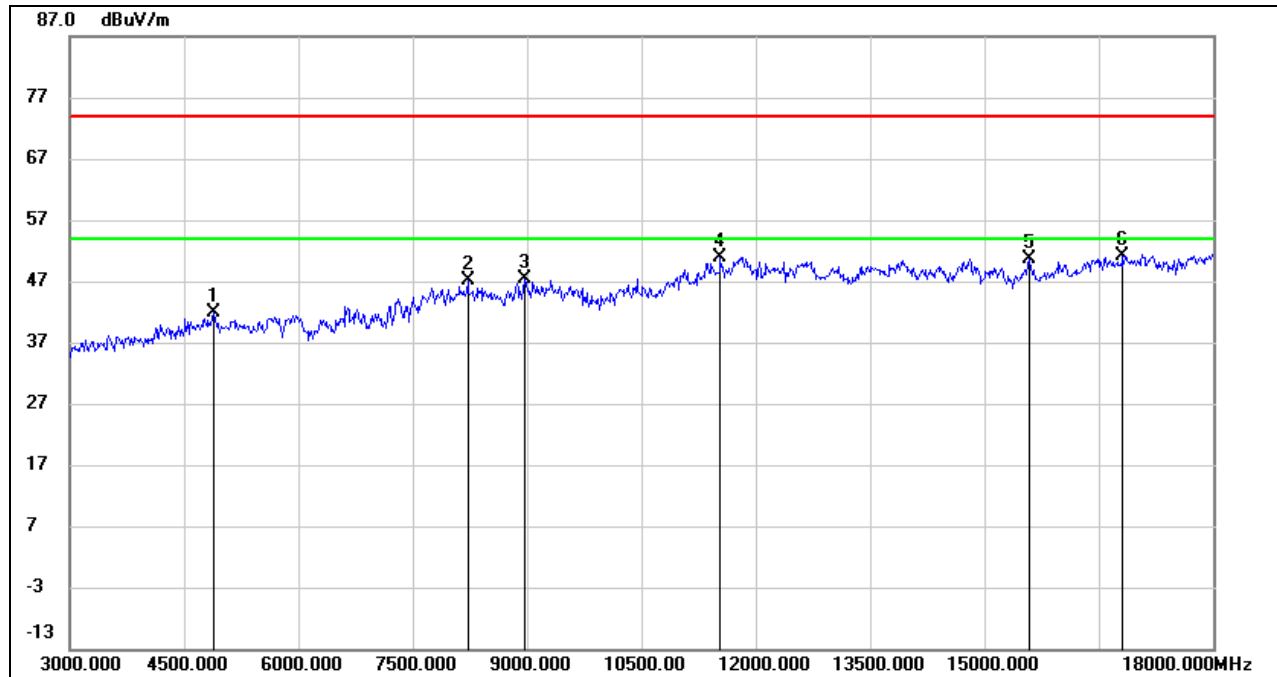
3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



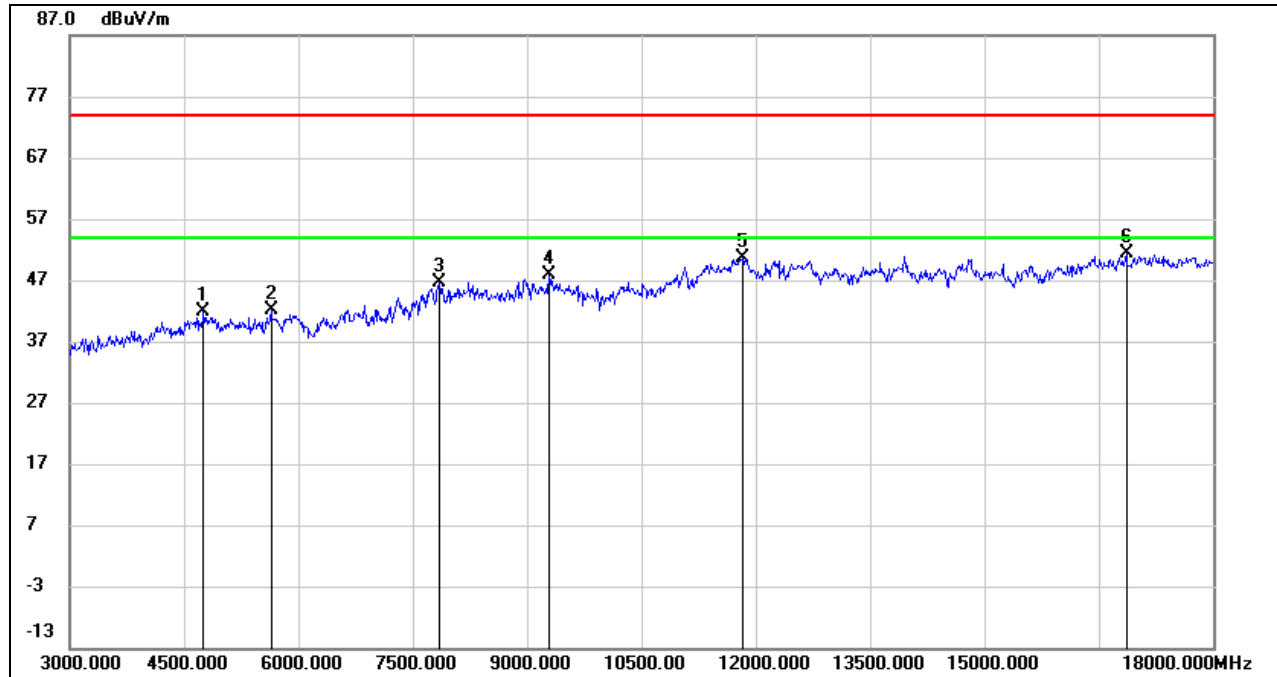
HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 6, HORIZONTAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 4890.000 | 41.17 | 0.73 | 41.90 | 74.00 | -32.10 | peak |
| 2 | 8220.000 | 37.92 | 9.29 | 47.21 | 74.00 | -26.79 | peak |
| 3 | 8970.000 | 37.01 | 10.32 | 47.33 | 74.00 | -26.67 | peak |
| 4 | 11535.000 | 36.52 | 14.40 | 50.92 | 74.00 | -23.08 | peak |
| 5 | 15585.000 | 34.07 | 16.66 | 50.73 | 74.00 | -23.27 | peak |
| 6 | 16815.000 | 31.28 | 19.78 | 51.06 | 74.00 | -22.94 | peak |

- Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 6, VERTICAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 4755.000 | 41.50 | 0.33 | 41.83 | 74.00 | -32.17 | peak |
| 2 | 5640.000 | 39.68 | 2.47 | 42.15 | 74.00 | -31.85 | peak |
| 3 | 7845.000 | 38.49 | 8.12 | 46.61 | 74.00 | -27.39 | peak |
| 4 | 9285.000 | 38.22 | 9.72 | 47.94 | 74.00 | -26.06 | peak |
| 5 | 11820.000 | 35.12 | 15.58 | 50.70 | 74.00 | -23.30 | peak |
| 6 | 16860.000 | 31.61 | 19.88 | 51.49 | 74.00 | -22.51 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

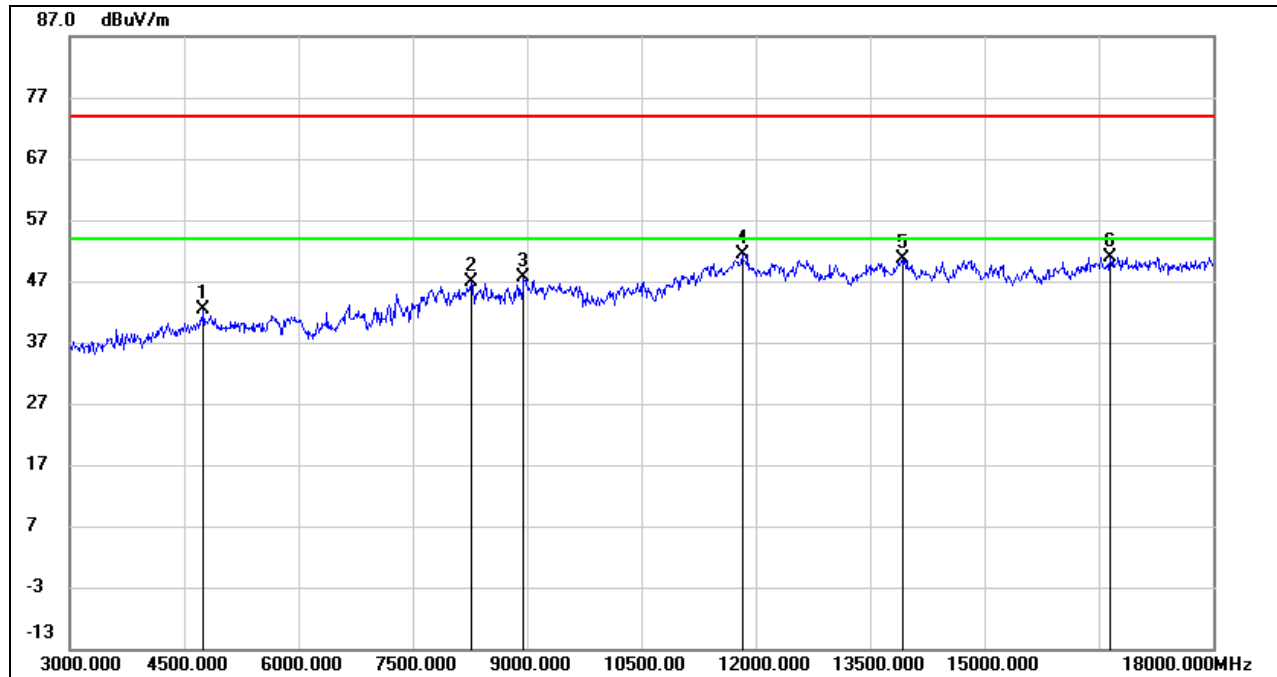
3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

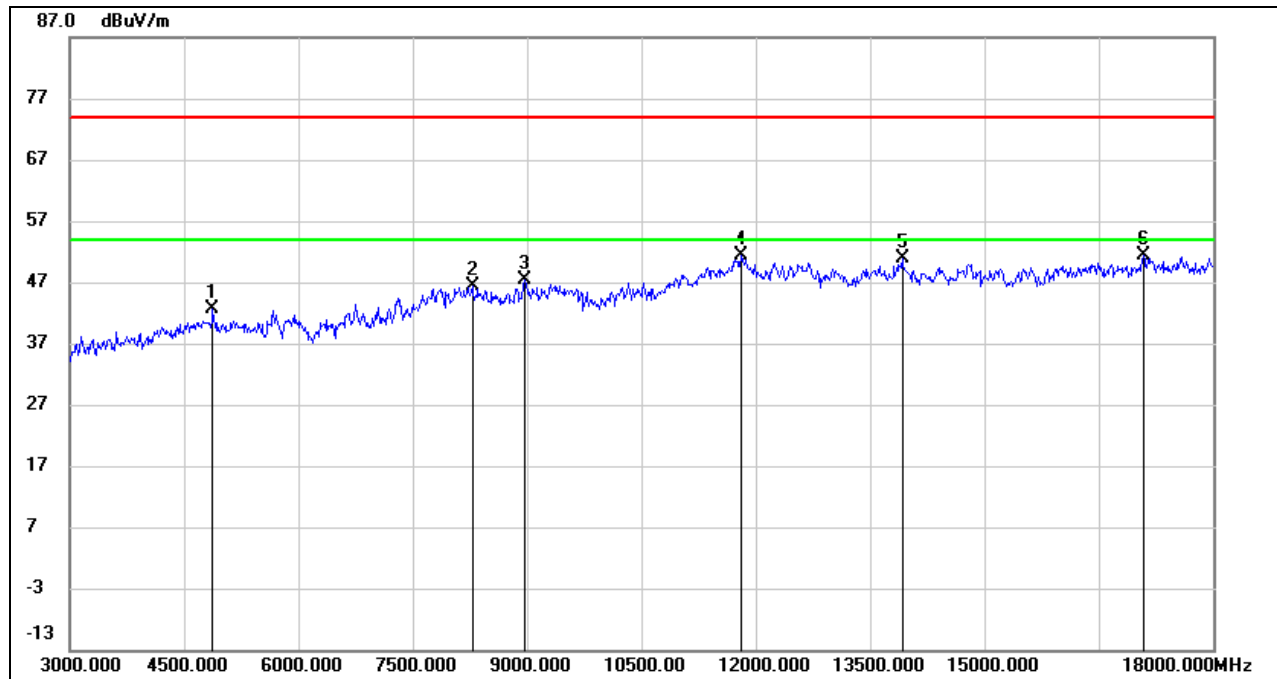


HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 8, HORIZONTAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1 | 4755.000 | 42.01 | 0.33 | 42.34 | 74.00 | -31.66 | peak |
| 2 | 8265.000 | 37.65 | 9.11 | 46.76 | 74.00 | -27.24 | peak |
| 3 | 8955.000 | 37.49 | 10.15 | 47.64 | 74.00 | -26.36 | peak |
| 4 | 11820.000 | 35.73 | 15.58 | 51.31 | 74.00 | -22.69 | peak |
| 5 | 13920.000 | 33.72 | 16.89 | 50.61 | 74.00 | -23.39 | peak |
| 6 | 16650.000 | 31.28 | 19.58 | 50.86 | 74.00 | -23.14 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 8, VERTICAL)**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 4875.000 | 42.02 | 0.71 | 42.73 | 74.00 | -31.27 | peak |
| 2 | 8280.000 | 37.36 | 9.05 | 46.41 | 74.00 | -27.59 | peak |
| 3 | 8970.000 | 37.05 | 10.32 | 47.37 | 74.00 | -26.63 | peak |
| 4 | 11805.000 | 35.66 | 15.60 | 51.26 | 74.00 | -22.74 | peak |
| 5 | 13920.000 | 34.03 | 16.89 | 50.92 | 74.00 | -23.08 | peak |
| 6 | 17085.000 | 30.84 | 20.58 | 51.42 | 74.00 | -22.58 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

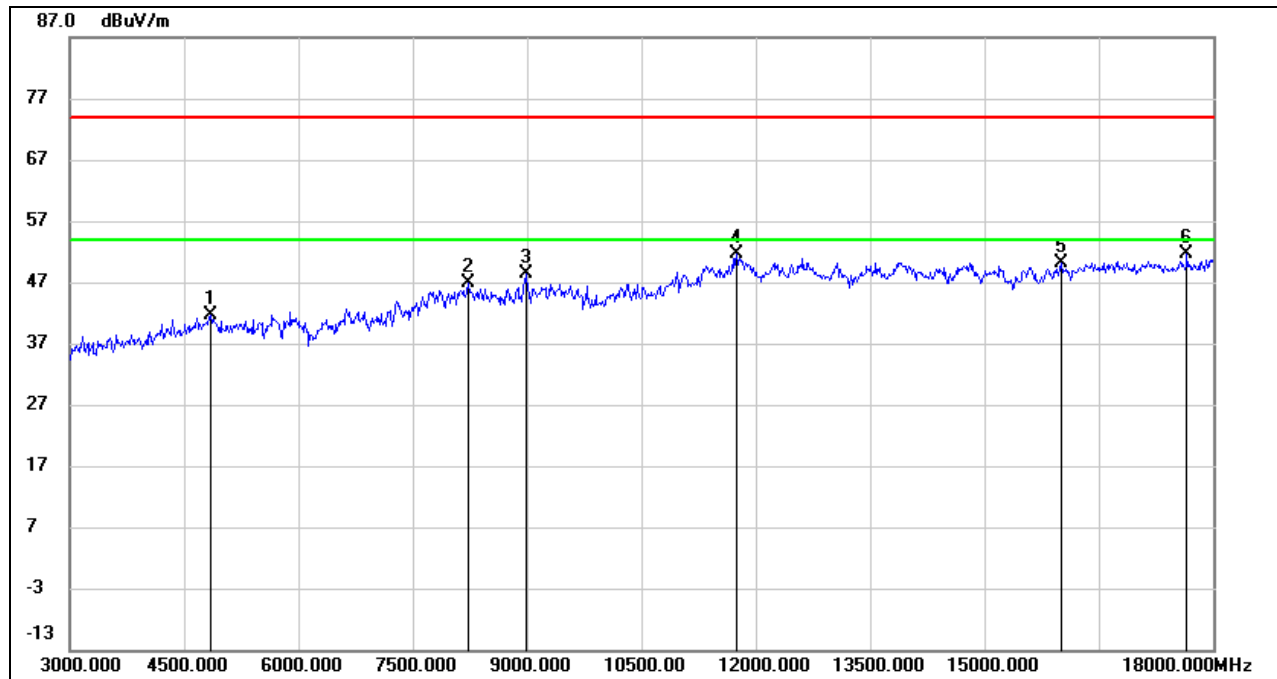
3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

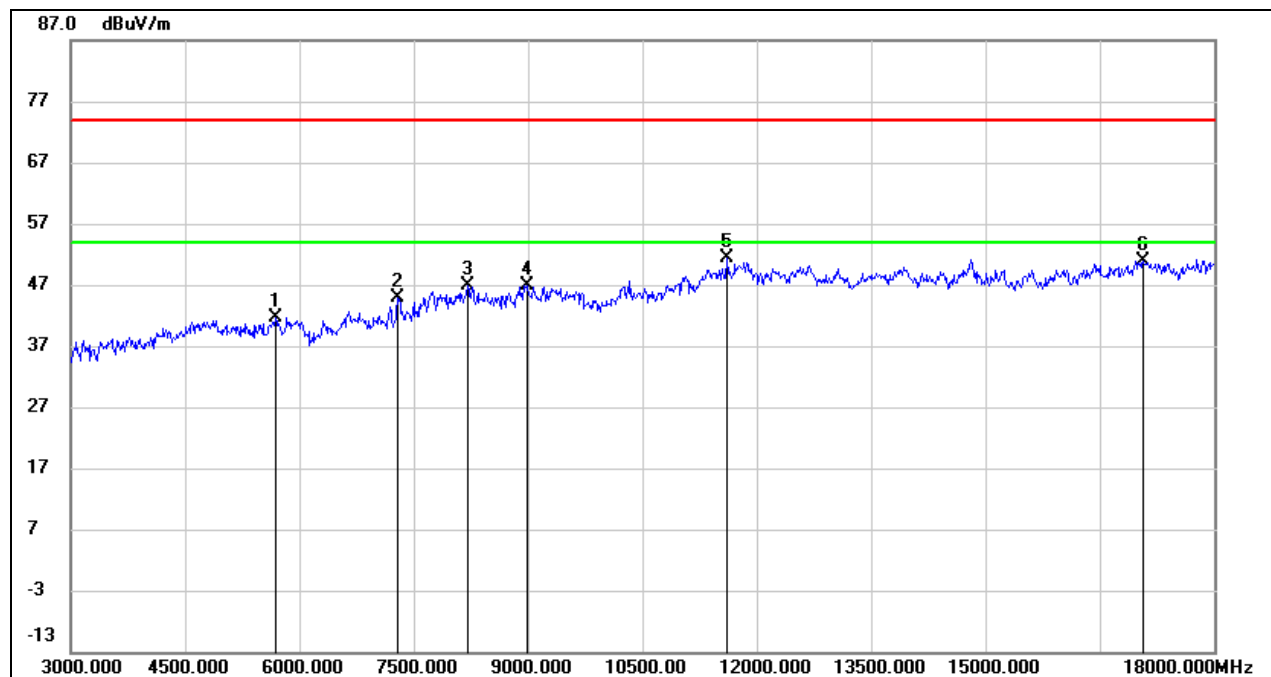


HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 9, HORIZONTAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 4845.000 | 41.08 | 0.66 | 41.74 | 74.00 | -32.26 | peak |
| 2 | 8220.000 | 37.69 | 9.29 | 46.98 | 74.00 | -27.02 | peak |
| 3 | 8985.000 | 37.79 | 10.47 | 48.26 | 74.00 | -25.74 | peak |
| 4 | 11745.000 | 36.26 | 15.31 | 51.57 | 74.00 | -22.43 | peak |
| 5 | 16005.000 | 32.90 | 17.24 | 50.14 | 74.00 | -23.86 | peak |
| 6 | 17655.000 | 30.10 | 21.60 | 51.70 | 74.00 | -22.30 | peak |

- Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 9, VERTICAL)**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1 | 5685.000 | 39.19 | 2.47 | 41.66 | 74.00 | -32.34 | peak |
| 2 | 7290.000 | 37.59 | 7.31 | 44.90 | 74.00 | -29.10 | peak |
| 3 | 8205.000 | 37.54 | 9.34 | 46.88 | 74.00 | -27.12 | peak |
| 4 | 8985.000 | 36.50 | 10.47 | 46.97 | 74.00 | -27.03 | peak |
| 5 | 11610.000 | 36.85 | 14.57 | 51.42 | 74.00 | -22.58 | peak |
| 6 | 17070.000 | 30.39 | 20.52 | 50.91 | 74.00 | -23.09 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

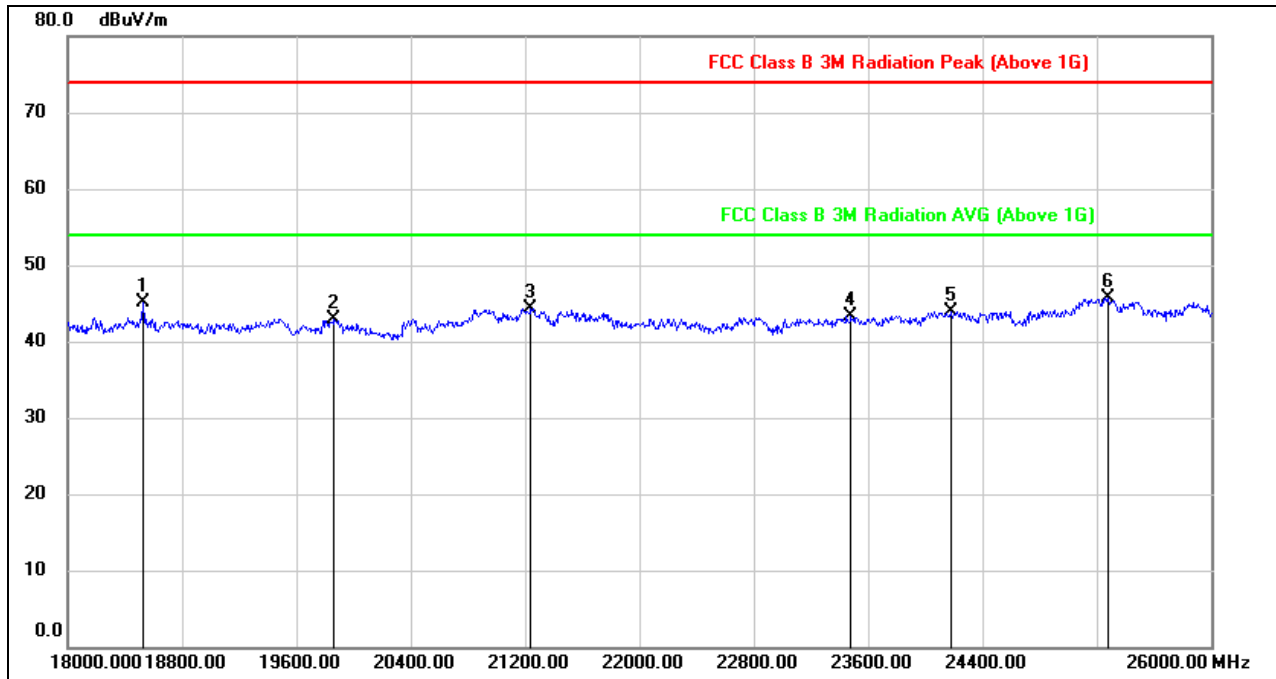
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

8.5. SPURIOUS EMISSIONS (18 GHz ~ 26 GHz)

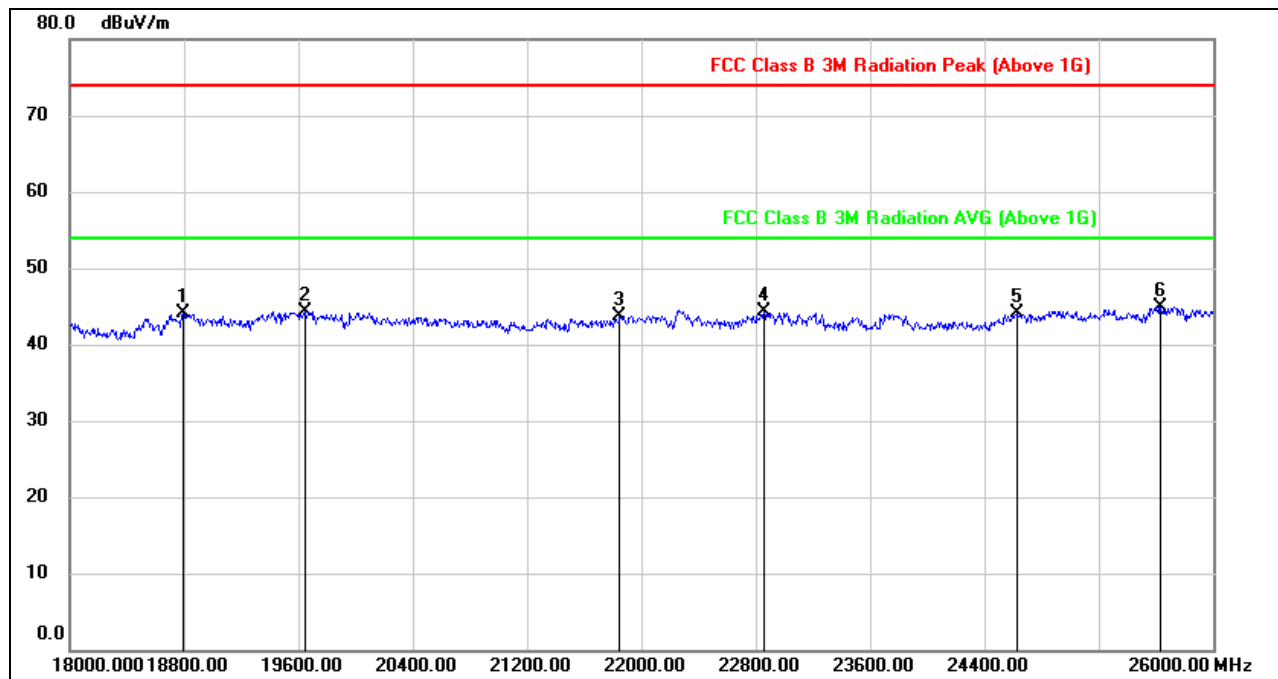
8.5.1. 802.11b MODE

SPURIOUS EMISSIONS (HIGH CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1 | 18528.000 | 50.41 | -5.26 | 45.15 | 74.00 | -28.85 | peak |
| 2 | 19864.000 | 48.29 | -5.34 | 42.95 | 74.00 | -31.05 | peak |
| 3 | 21240.000 | 49.00 | -4.77 | 44.23 | 74.00 | -29.77 | peak |
| 4 | 23480.000 | 46.54 | -3.16 | 43.38 | 74.00 | -30.62 | peak |
| 5 | 24176.000 | 46.69 | -2.80 | 43.89 | 74.00 | -30.11 | peak |
| 6 | 25280.000 | 47.35 | -1.68 | 45.67 | 74.00 | -28.33 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.

**SPURIOUS EMISSIONS (HIGH CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1 | 18792.000 | 49.45 | -5.39 | 44.06 | 74.00 | -29.94 | peak |
| 2 | 19648.000 | 49.73 | -5.37 | 44.36 | 74.00 | -29.64 | peak |
| 3 | 21848.000 | 48.08 | -4.39 | 43.69 | 74.00 | -30.31 | peak |
| 4 | 22856.000 | 47.96 | -3.59 | 44.37 | 74.00 | -29.63 | peak |
| 5 | 24624.000 | 46.49 | -2.33 | 44.16 | 74.00 | -29.84 | peak |
| 6 | 25632.000 | 46.06 | -1.16 | 44.90 | 74.00 | -29.10 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

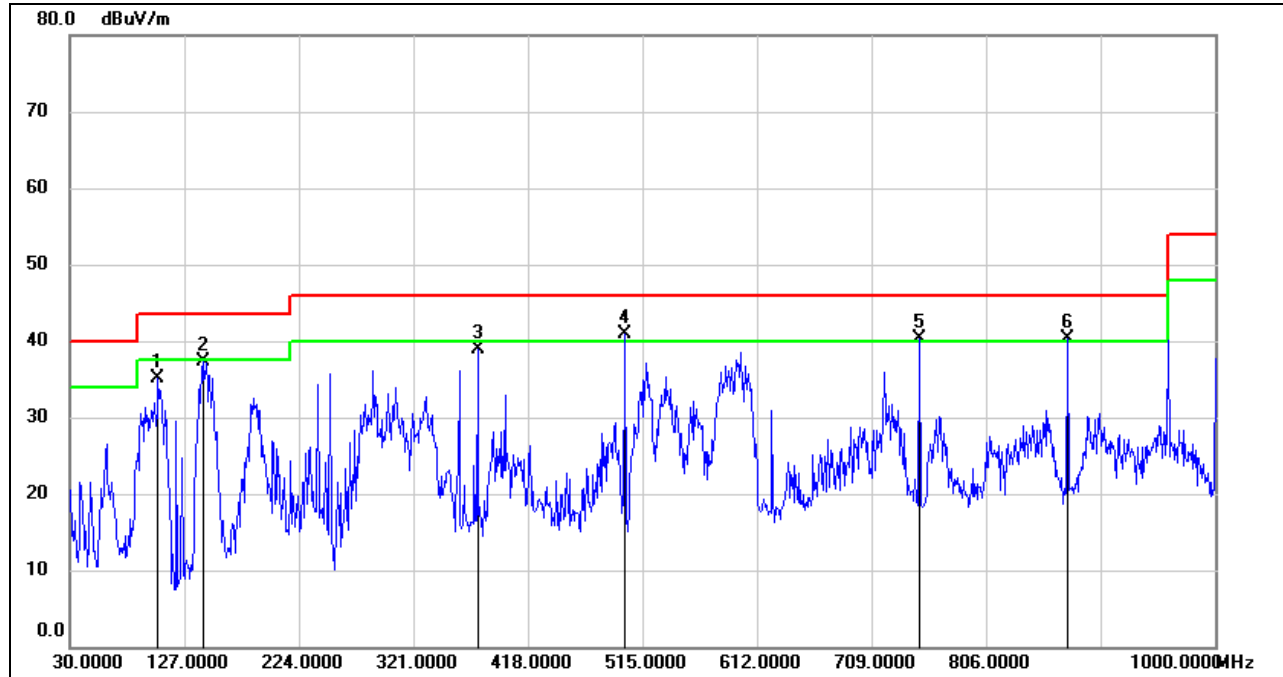
3. Peak: Peak detector.

Note: All the modes had been tested, but only the worst data was recorded in the report.

8.6. SPURIOUS EMISSIONS (30 MHz ~ 1 GHz)

8.6.1. 802.11b MODE

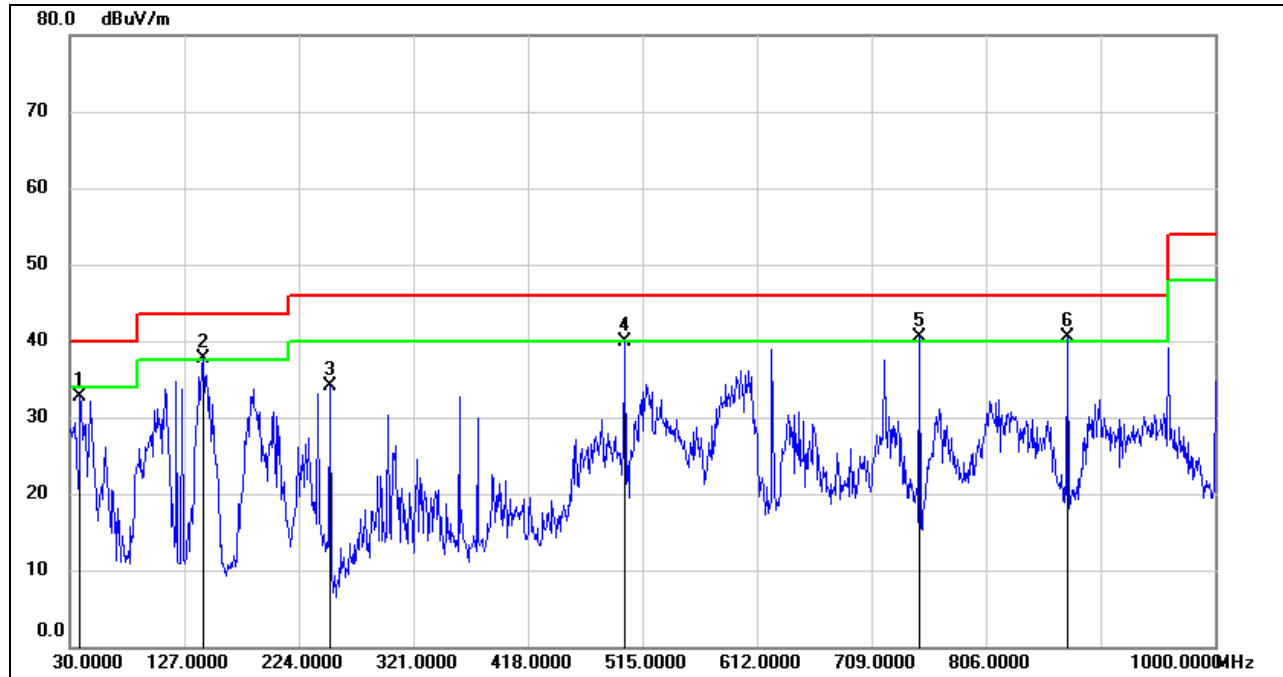
SPURIOUS EMISSIONS (HIGH CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1 | 104.6900 | 55.80 | -20.76 | 35.04 | 43.50 | -8.46 | QP |
| 2 | 143.4900 | 56.05 | -18.66 | 37.39 | 43.50 | -6.11 | QP |
| 3 | 375.3200 | 52.71 | -13.79 | 38.92 | 46.00 | -7.08 | QP |
| 4 | 500.4500 | 52.43 | -11.46 | 40.97 | 46.00 | -5.03 | QP |
| 5 | 749.7400 | 48.18 | -7.94 | 40.24 | 46.00 | -5.76 | QP |
| 6 | 874.8700 | 45.90 | -5.64 | 40.26 | 46.00 | -5.74 | QP |

Note: 1. Result Level = Read Level + Correct Factor.
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

SPURIOUS EMISSIONS (HIGH CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1 | 38.7300 | 52.42 | -19.81 | 32.61 | 40.00 | -7.39 | QP |
| 2 | 143.4900 | 56.28 | -18.66 | 37.62 | 43.50 | -5.88 | QP |
| 3 | 250.1900 | 52.95 | -18.91 | 34.04 | 46.00 | -11.96 | QP |
| 4 | 500.4500 | 51.29 | -11.46 | 39.83 | 46.00 | -6.17 | QP |
| 5 | 749.7400 | 48.35 | -7.94 | 40.41 | 46.00 | -5.59 | QP |
| 6 | 874.8700 | 46.23 | -5.64 | 40.59 | 46.00 | -5.41 | QP |

- Note: 1. Result Level = Read Level + Correct Factor.
 2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
 3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto

Note: All the modes and channels had been tested, but only the worst data was recorded in the report.

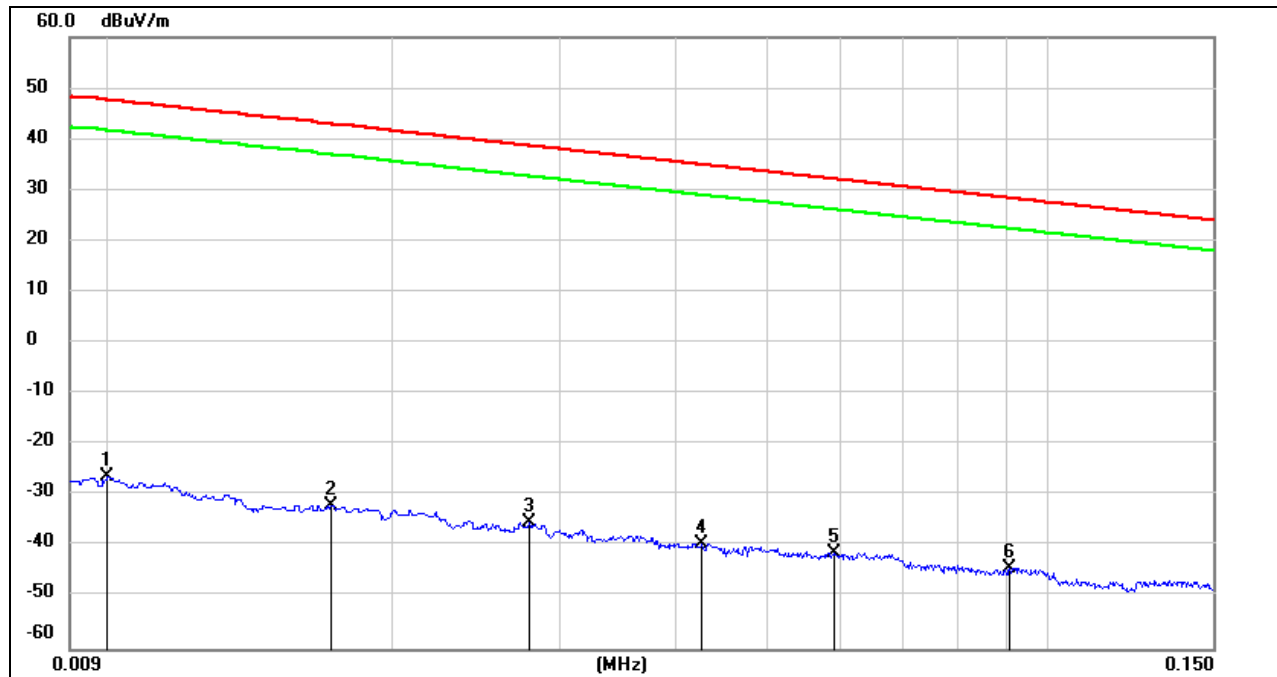


8.7. SPURIOUS EMISSIONS BELOW 30 MHz

8.7.1. 802.11b MODE

SPURIOUS EMISSIONS (HIGH CHANNEL, LOOP ANTENNA FACE ON TO THE EUT, WORST-CASE CONFIGURATION)

9 kHz~ 150 kHz



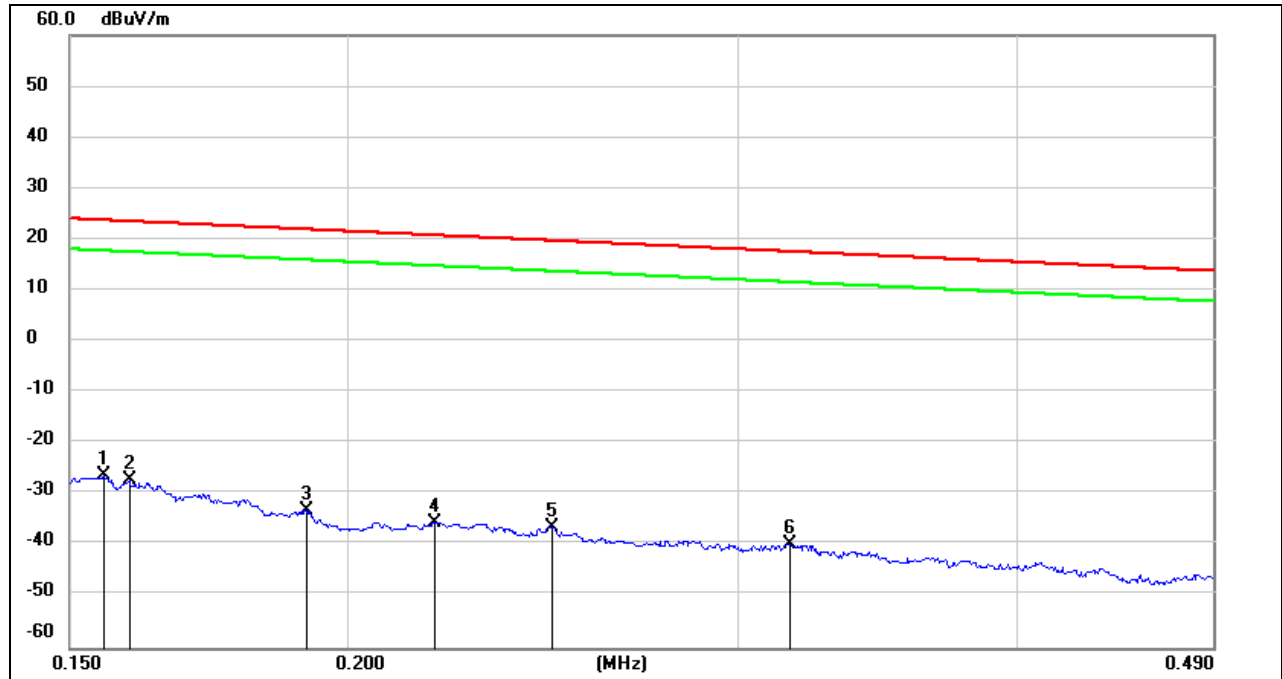
| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | FCC Result (dBuV/m) | FCC Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|---------------------|--------------------|-------------|--------|
| 1 | 0.0100 | 75.22 | -101.40 | -26.18 | 47.6 | -73.78 | peak |
| 2 | 0.0171 | 69.38 | -101.36 | -31.98 | 42.94 | -74.92 | peak |
| 3 | 0.0279 | 66.17 | -101.38 | -35.21 | 38.69 | -73.90 | peak |
| 4 | 0.0427 | 62.14 | -101.45 | -39.31 | 34.99 | -74.30 | peak |
| 5 | 0.0589 | 60.31 | -101.52 | -41.21 | 32.2 | -73.41 | peak |
| 6 | 0.0911 | 57.61 | -101.72 | -44.11 | 28.41 | -72.52 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.

3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

150 kHz ~ 490 kHz



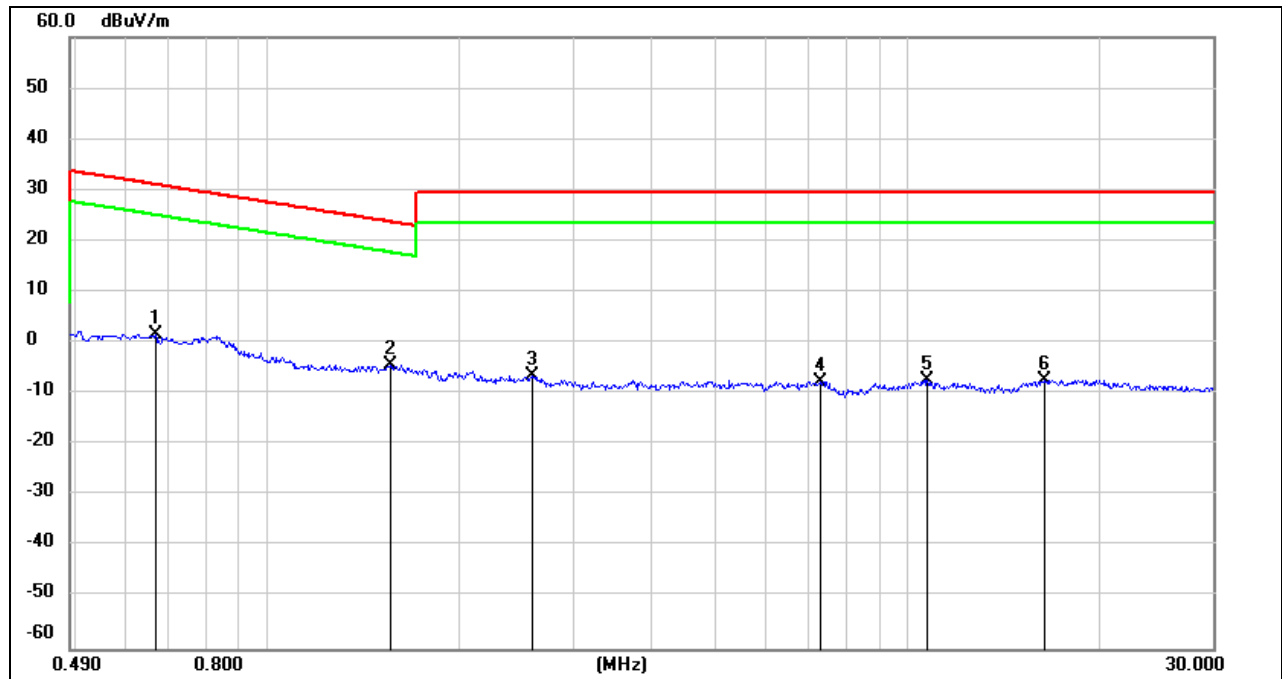
| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | FCC Result (dBuV/m) | FCC Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|---------------------|--------------------|-------------|--------|
| 1 | 0.1554 | 75.27 | -101.65 | -26.38 | 23.77 | -50.15 | peak |
| 2 | 0.1595 | 74.36 | -101.65 | -27.29 | 23.55 | -50.84 | peak |
| 3 | 0.1917 | 68.54 | -101.70 | -33.16 | 21.95 | -55.11 | peak |
| 4 | 0.2190 | 66.27 | -101.75 | -35.48 | 20.79 | -56.27 | peak |
| 5 | 0.2472 | 65.45 | -101.80 | -36.35 | 19.74 | -56.09 | peak |
| 6 | 0.3163 | 62.20 | -101.87 | -39.67 | 17.6 | -57.27 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.

3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

490 kHz ~ 30 MHz



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | FCC Result (dBuV/m) | FCC Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|---------------------|--------------------|-------------|--------|
| 1 | 0.6671 | 63.75 | -62.10 | 1.65 | 31.12 | -29.47 | peak |
| 2 | 1.5564 | 57.68 | -62.02 | -4.34 | 23.76 | -28.10 | peak |
| 3 | 2.5935 | 55.11 | -61.68 | -6.57 | 29.54 | -36.11 | peak |
| 4 | 7.3361 | 53.58 | -61.17 | -7.59 | 29.54 | -37.13 | peak |
| 5 | 10.7299 | 53.48 | -60.83 | -7.35 | 29.54 | -36.89 | peak |
| 6 | 16.3959 | 53.67 | -60.96 | -7.29 | 29.54 | -36.83 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.

3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

Note: All the modes and channels had been tested, but only the worst data was recorded in the report.

9. AC POWER LINE CONDUCTED EMISSIONS

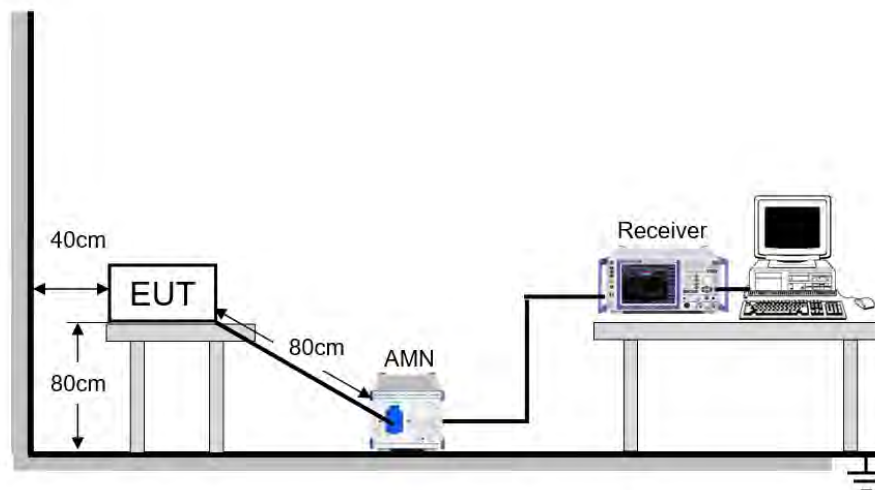
LIMITS

Please refer to CFR 47 FCC §15.207 (a).

| FREQUENCY (MHz) | Quasi-peak | Average |
|-----------------|------------|-----------|
| 0.15 -0.5 | 66 - 56 * | 56 - 46 * |
| 0.50 -5.0 | 56.00 | 46.00 |
| 5.0 -30.0 | 60.00 | 50.00 |

TEST SETUP AND PROCEDURE

Refer to ANSI C63.10-2013 clause 6.2.



The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

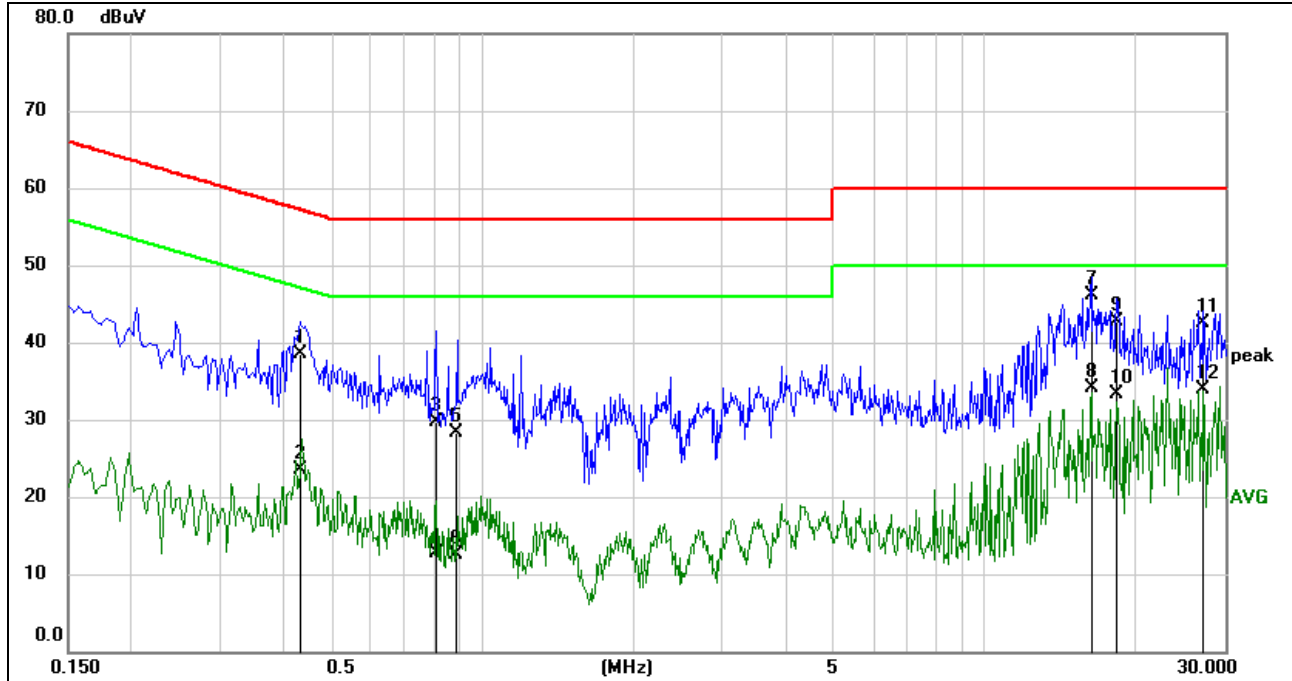
TEST ENVIRONMENT

| | | | |
|---------------------|---------|-------------------|----------------|
| Temperature | 26.1°C | Relative Humidity | 63 % |
| Atmosphere Pressure | 101 kPa | Test Voltage | AC 120V, 60 HZ |

RESULTS

9.1.1. 802.11b MODE

LINE L RESULTS (HIGH CHANNEL, WORST-CASE CONFIGURATION)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-----------------|------------------|-----------------|----------------|--------|
| 1 | 0.4341 | 28.94 | 9.60 | 38.54 | 57.17 | -18.63 | QP |
| 2 | 0.4341 | 13.98 | 9.60 | 23.58 | 47.17 | -23.59 | AVG |
| 3 | 0.8081 | 20.02 | 9.60 | 29.62 | 56.00 | -26.38 | QP |
| 4 | 0.8081 | 3.07 | 9.60 | 12.67 | 46.00 | -33.33 | AVG |
| 5 | 0.8836 | 18.69 | 9.60 | 28.29 | 56.00 | -27.71 | QP |
| 6 | 0.8836 | 2.87 | 9.60 | 12.47 | 46.00 | -33.53 | AVG |
| 7 | 16.2279 | 36.44 | 9.67 | 46.11 | 60.00 | -13.89 | QP |
| 8 | 16.2279 | 24.53 | 9.67 | 34.20 | 50.00 | -15.80 | AVG |
| 9 | 18.2431 | 33.03 | 9.77 | 42.80 | 60.00 | -17.20 | QP |
| 10 | 18.2431 | 23.44 | 9.77 | 33.21 | 50.00 | -16.79 | AVG |
| 11 | 27.1585 | 32.66 | 9.89 | 42.55 | 60.00 | -17.45 | QP |
| 12 | 27.1585 | 24.04 | 9.89 | 33.93 | 50.00 | -16.07 | AVG |

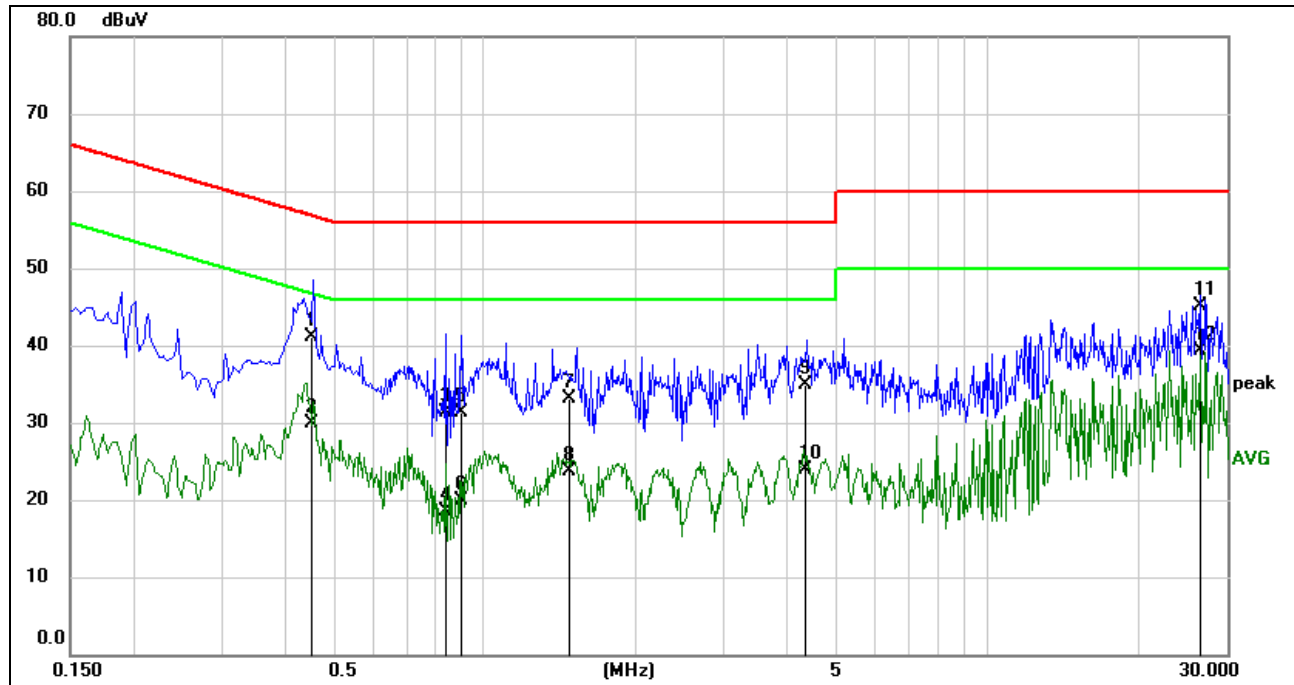
Note: 1. Result = Reading + Correct Factor.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).

4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

LINE N RESULTS (HIGH CHANNEL, WORST-CASE CONFIGURATION)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark |
|-----|-----------------|----------------|--------------|---------------|--------------|-------------|--------|
| 1 | 0.4539 | 31.57 | 9.60 | 41.17 | 56.80 | -15.63 | QP |
| 2 | 0.4539 | 20.34 | 9.60 | 29.94 | 46.80 | -16.86 | AVG |
| 3 | 0.8442 | 21.71 | 9.60 | 31.31 | 56.00 | -24.69 | QP |
| 4 | 0.8442 | 8.96 | 9.60 | 18.56 | 46.00 | -27.44 | AVG |
| 5 | 0.9023 | 21.69 | 9.61 | 31.30 | 56.00 | -24.70 | QP |
| 6 | 0.9023 | 10.36 | 9.61 | 19.97 | 46.00 | -26.03 | AVG |
| 7 | 1.4796 | 23.52 | 9.62 | 33.14 | 56.00 | -22.86 | QP |
| 8 | 1.4796 | 14.05 | 9.62 | 23.67 | 46.00 | -22.33 | AVG |
| 9 | 4.3385 | 25.37 | 9.60 | 34.97 | 56.00 | -21.03 | QP |
| 10 | 4.3385 | 14.25 | 9.60 | 23.85 | 46.00 | -22.15 | AVG |
| 11 | 26.4868 | 35.26 | 9.86 | 45.12 | 60.00 | -14.88 | QP |
| 12 | 26.4868 | 29.47 | 9.86 | 39.33 | 50.00 | -10.67 | AVG |

Note: 1. Result = Reading +Correct Factor.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).

4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes and channels had been tested, but only the worst data was recorded in the report.

10. ANTENNA REQUIREMENTS

APPLICABLE REQUIREMENTS

Please refer to FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC §15.247(b)(4)

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

RESULTS

Complies



11. Appendix

11.1. Appendix A: DTS Bandwidth

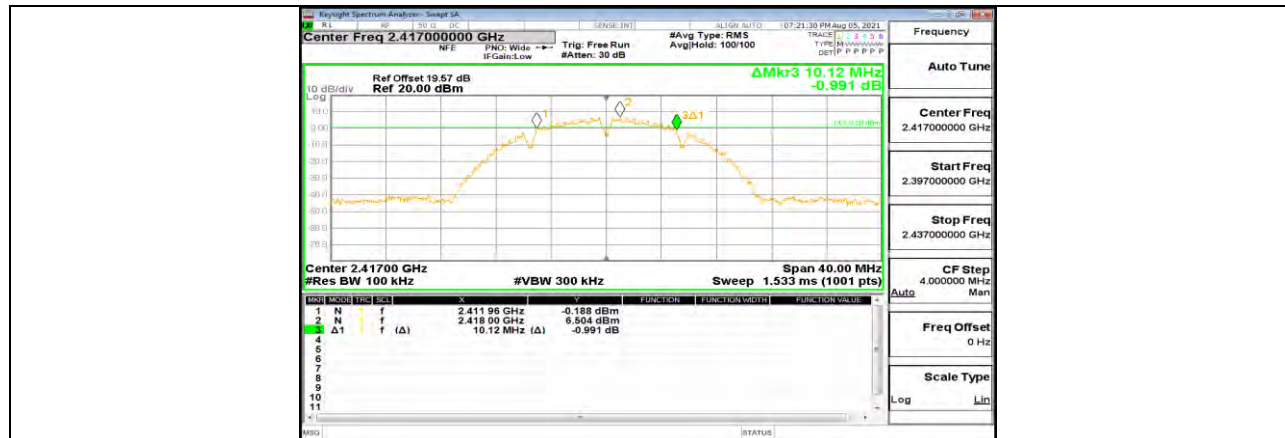
11.1.1. Test Result

| Test Mode | Antenna | Channel | DTS BW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|-----------|---------|---------|--------------|----------|----------|------------|---------|
| 11B-CDD | Ant1 | 2412 | 9.640 | 2407.440 | 2417.080 | 0.5 | PASS |
| | Ant2 | 2412 | 9.360 | 2407.440 | 2416.800 | 0.5 | PASS |
| | Ant1 | 2417 | 10.080 | 2411.960 | 2422.040 | 0.5 | PASS |
| | Ant2 | 2417 | 10.120 | 2411.960 | 2422.080 | 0.5 | PASS |
| | Ant1 | 2437 | 9.200 | 2432.400 | 2441.600 | 0.5 | PASS |
| | Ant2 | 2437 | 9.600 | 2432.440 | 2442.040 | 0.5 | PASS |
| | Ant1 | 2457 | 10.120 | 2451.960 | 2462.080 | 0.5 | PASS |
| | Ant2 | 2457 | 9.120 | 2452.480 | 2461.600 | 0.5 | PASS |
| | Ant1 | 2462 | 9.880 | 2457.200 | 2467.080 | 0.5 | PASS |
| 11G-CDD | Ant2 | 2462 | 9.640 | 2457.440 | 2467.080 | 0.5 | PASS |
| | Ant1 | 2412 | 16.400 | 2403.800 | 2420.200 | 0.5 | PASS |
| | Ant2 | 2412 | 15.760 | 2404.440 | 2420.200 | 0.5 | PASS |
| | Ant1 | 2417 | 16.120 | 2409.040 | 2425.160 | 0.5 | PASS |
| | Ant2 | 2417 | 16.160 | 2409.040 | 2425.200 | 0.5 | PASS |
| | Ant1 | 2437 | 16.360 | 2428.840 | 2445.200 | 0.5 | PASS |
| | Ant2 | 2437 | 16.000 | 2429.200 | 2445.200 | 0.5 | PASS |
| | Ant1 | 2457 | 16.120 | 2449.080 | 2465.200 | 0.5 | PASS |
| | Ant2 | 2457 | 16.320 | 2448.840 | 2465.160 | 0.5 | PASS |
| 11N20MIMO | Ant1 | 2462 | 15.480 | 2454.440 | 2469.920 | 0.5 | PASS |
| | Ant2 | 2462 | 15.400 | 2454.200 | 2469.600 | 0.5 | PASS |
| | Ant1 | 2412 | 17.600 | 2403.200 | 2420.800 | 0.5 | PASS |
| | Ant2 | 2412 | 16.600 | 2403.600 | 2420.200 | 0.5 | PASS |
| | Ant1 | 2417 | 16.720 | 2408.840 | 2425.560 | 0.5 | PASS |
| | Ant2 | 2417 | 17.400 | 2408.440 | 2425.840 | 0.5 | PASS |
| | Ant1 | 2437 | 17.640 | 2428.200 | 2445.840 | 0.5 | PASS |
| | Ant2 | 2437 | 17.400 | 2428.440 | 2445.840 | 0.5 | PASS |
| | Ant1 | 2457 | 17.600 | 2448.200 | 2465.800 | 0.5 | PASS |
| 11N40MIMO | Ant2 | 2457 | 16.560 | 2448.600 | 2465.160 | 0.5 | PASS |
| | Ant1 | 2462 | 16.480 | 2453.440 | 2469.920 | 0.5 | PASS |
| | Ant2 | 2462 | 16.360 | 2453.800 | 2470.160 | 0.5 | PASS |
| | Ant1 | 2422 | 35.200 | 2404.400 | 2439.600 | 0.5 | PASS |
| | Ant2 | 2422 | 35.200 | 2404.400 | 2439.600 | 0.5 | PASS |
| | Ant1 | 2427 | 35.200 | 2409.400 | 2444.600 | 0.5 | PASS |
| | Ant2 | 2427 | 35.200 | 2409.400 | 2444.600 | 0.5 | PASS |
| | Ant1 | 2437 | 35.200 | 2419.400 | 2454.600 | 0.5 | PASS |
| | Ant2 | 2437 | 35.200 | 2419.400 | 2454.600 | 0.5 | PASS |
| | Ant1 | 2447 | 35.200 | 2429.400 | 2464.600 | 0.5 | PASS |
| | Ant2 | 2447 | 35.200 | 2429.400 | 2464.600 | 0.5 | PASS |
| | Ant1 | 2452 | 35.200 | 2434.400 | 2469.600 | 0.5 | PASS |
| | Ant2 | 2452 | 35.200 | 2434.400 | 2469.600 | 0.5 | PASS |
| | | | | | | | |



11.1.2. Test Graphs

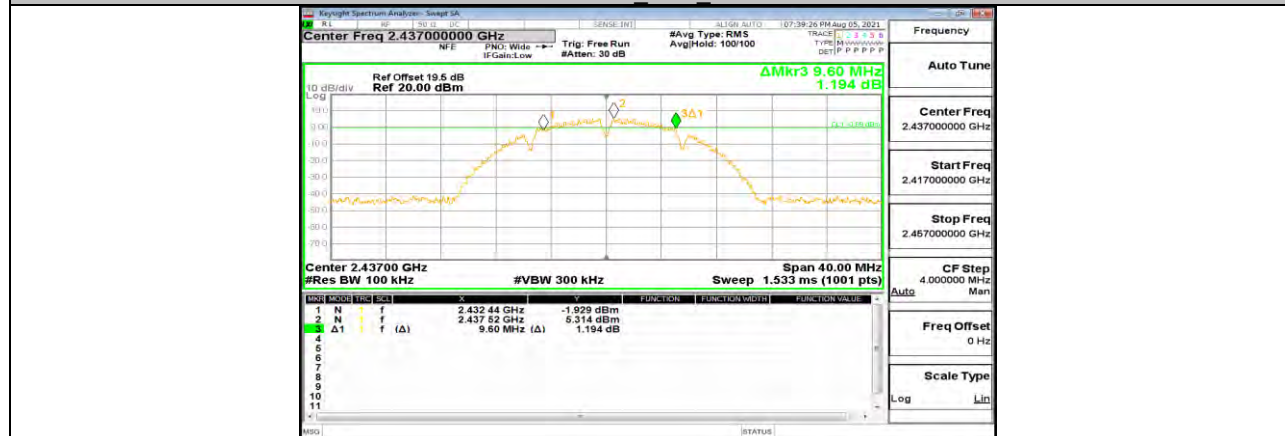




11B-CDD Ant2 2417



11B-CDD Ant1 2437



11B-CDD Ant2 2437

























11.2. Appendix B: Occupied Channel Bandwidth

11.2.1. Test Result

| Test Mode | Antenna | Channel | OCB [MHz] | FL[MHz] | FH[MHz] | Verdict |
|-----------|---------|---------|-----------|----------|----------|---------|
| 11B-CDD | Ant1 | 2412 | 14.256 | 2404.949 | 2419.205 | PASS |
| | Ant2 | 2412 | 14.155 | 2404.988 | 2419.143 | PASS |
| | Ant1 | 2417 | 14.316 | 2409.888 | 2424.204 | PASS |
| | Ant2 | 2417 | 14.194 | 2409.953 | 2424.147 | PASS |
| | Ant1 | 2437 | 14.311 | 2429.864 | 2444.175 | PASS |
| | Ant2 | 2437 | 14.174 | 2429.963 | 2444.137 | PASS |
| | Ant1 | 2457 | 14.287 | 2449.892 | 2464.179 | PASS |
| | Ant2 | 2457 | 14.161 | 2449.961 | 2464.122 | PASS |
| 11G-CDD | Ant1 | 2462 | 14.280 | 2454.890 | 2469.170 | PASS |
| | Ant2 | 2462 | 14.169 | 2454.956 | 2469.125 | PASS |
| | Ant1 | 2412 | 16.942 | 2403.608 | 2420.550 | PASS |
| | Ant2 | 2412 | 16.721 | 2403.679 | 2420.400 | PASS |
| | Ant1 | 2417 | 17.316 | 2408.459 | 2425.775 | PASS |
| | Ant2 | 2417 | 16.673 | 2408.664 | 2425.337 | PASS |
| | Ant1 | 2437 | 17.023 | 2428.504 | 2445.527 | PASS |
| | Ant2 | 2437 | 16.768 | 2428.640 | 2445.408 | PASS |
| 11N20MIMO | Ant1 | 2457 | 16.911 | 2448.504 | 2465.415 | PASS |
| | Ant2 | 2457 | 16.740 | 2448.669 | 2465.409 | PASS |
| | Ant1 | 2462 | 17.023 | 2453.493 | 2470.516 | PASS |
| | Ant2 | 2462 | 16.835 | 2453.625 | 2470.460 | PASS |
| | Ant1 | 2412 | 17.994 | 2403.103 | 2421.097 | PASS |
| | Ant2 | 2412 | 17.691 | 2403.210 | 2420.901 | PASS |
| | Ant1 | 2417 | 17.932 | 2408.075 | 2426.007 | PASS |
| | Ant2 | 2417 | 17.698 | 2408.193 | 2425.891 | PASS |
| 11N40MIMO | Ant1 | 2437 | 17.945 | 2428.061 | 2446.006 | PASS |
| | Ant2 | 2437 | 17.736 | 2428.167 | 2445.903 | PASS |
| | Ant1 | 2457 | 18.457 | 2447.911 | 2466.368 | PASS |
| | Ant2 | 2457 | 17.742 | 2448.181 | 2465.923 | PASS |
| | Ant1 | 2462 | 17.929 | 2453.007 | 2470.936 | PASS |
| | Ant2 | 2462 | 17.711 | 2453.117 | 2470.828 | PASS |
| | Ant1 | 2422 | 36.030 | 2403.927 | 2439.957 | PASS |
| | Ant2 | 2422 | 35.957 | 2404.038 | 2439.995 | PASS |
| 11N40MIMO | Ant1 | 2427 | 35.990 | 2408.984 | 2444.974 | PASS |
| | Ant2 | 2427 | 36.189 | 2408.981 | 2445.170 | PASS |
| | Ant1 | 2437 | 35.836 | 2419.008 | 2454.844 | PASS |
| | Ant2 | 2437 | 35.932 | 2419.056 | 2454.988 | PASS |
| | Ant1 | 2447 | 35.884 | 2428.982 | 2464.866 | PASS |
| | Ant2 | 2447 | 36.009 | 2429.009 | 2465.018 | PASS |
| | Ant1 | 2452 | 35.943 | 2433.955 | 2469.898 | PASS |
| | Ant2 | 2452 | 36.055 | 2433.973 | 2470.028 | PASS |

11.2.2. Test Graphs





