



FCC COMPLIANCE TEST REPORT

Technical Statement of Conformity
in accordance with 47 CFR Part 15 Subpart C

The product

Equipment Under Test : Vehicle Video Recorder
Model Number : VVH-MDE204
Product Series : N/A
Report Number : HA140465-RA
Issue Date : 11-Dec-2014
Test Result : Compliance

is produced by

FUHO TECHNOLOGY CO., LTD.

No. 30, Lane 726, Jinma Rd, Sec. 3, Chang Hua City, Taiwan 500



HongAn TECHNOLOGY CO., LTD.

NO.15-1, CWEISHUH KENG, CWEIPIN VILLAGE,
LINKOU, TAIPEI COUNTY,
TAIWAN, R. O. C.

TEL: +886-2-26030362
FAX: +886-2-26019259
E-mail: hatlab@ms19.hinet.net

BSMI Registration No.: SL2-IN-E-0023, SL2-A1-E-0023,
SL2-IS-E-0023, SL2-R1-E-0023,
SL2-R2-E-0023, SL2-L1-E-0023

FCC Designation No.: TW1071
TAF Accreditation No.: 1163
VCCI Registration No.: R-2156, C-2329, T-219

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Test Result Certification

| | |
|--------------------------------|---|
| Applicant | : FUHO TECHNOLOGY CO., LTD. |
| Address of Applicant | : No. 30, Lane 726, Jinma Rd, Sec. 3, Chang Hua City, Taiwan 500 |
| Manufacturer | : FUHO TECHNOLOGY CO., LTD. |
| Address of Manufacturer | : No. 30, Lane 726, Jinma Rd, Sec. 3, Chang Hua City, Taiwan 500 |
| Trade Name | : Vacron |
| Equipment Under Test | : Vehicle Video Recorder |
| Model Number | : VVH-MDE204 |
| Product Series | : N/A |
| FCC ID | : 2ADF5-VVH-MDE204 |
| Filing Type | : Certification |
| Sample Received Date | : 17-Sep-2014 |
| Test Standard | : |

FCC Part 15 Subpart C §15.247

Deviations from standard test methods & any other specifications : NONE

Remark:

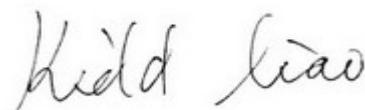
1. This report details the results of the test carried out on one sample.
2. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 15.207, 15.209, 15.247.
3. This report applies to the above sample only and shall not be reproduced in part without written approval of HongAn Technology Co., Ltd..



Documented by:

Kay Wang/ ADM. Dept Staff

2014-12-11



Tested by:

Kidd Liao / ENG. Dept. Staff

2014-12-10



Approved by:

Peter Chin / Section Manager

Date:

2014-12-11

Summary of Test Result

| | Test Item | Applicable Standard | Test Result |
|---|--------------------------------|----------------------------------|--------------------|
| 1 | Conducted limits | FCC part 15 subpart C §207 | Compliance |
| 2 | Radiated emission limits | FCC part 15 subpart C §209 | Compliance |
| 3 | 6dB Bandwidth | FCC part 15 subpart C §247(a)(2) | Compliance |
| 4 | Maximum Conducted Output Power | FCC part 15 subpart C §247(b)(3) | Compliance |
| 5 | Out of Band Emission | FCC part 15 subpart C §247(d) | Compliance |
| 6 | Power Spectral Density | FCC part 15 subpart C §247(e) | Compliance |
| 7 | Antenna Requirement | FCC part 15 subpart C §203 | Compliance |

1 General Description

1.1 Description of EUT

| | | | | | | | | | | | |
|--|---|---|---------------|-----|---------------|-----|---------------|-----|---------------|-----|---------------|
| Equipment Under Test | : | Vehicle Video Recorder | | | | | | | | | |
| Model Number of EUT | : | VWH-MDE204 | | | | | | | | | |
| Product Series | : | N/A | | | | | | | | | |
| Power Supply | : | DC : Input <u>24</u> Vdc | | | | | | | | | |
| Frequency Range | : | 802.11 b/ g/ n(20M) : 2412~2462 MHz 802.11n(40M) : 2422~2452 MHz | | | | | | | | | |
| Number of Channels | : | 11 Channels | | | | | | | | | |
| Carrier Frequency of Each Channel | : | Ch. | Fre. (MHz) | Ch. | Fre. (MHz) | Ch. | Fre. (MHz) | Ch. | Fre. (MHz) | Ch. | Fre. (MHz) |
| | | 01 | 2412 | 02 | 2417 | 03 | 2422 | 04 | 2427 | 05 | 2432 |
| | | 06 | 2437 | 07 | 2442 | 08 | 2447 | 09 | 2452 | 10 | 2457 |
| | | 11 | 2462 | | | | | | | | |
| Antenna Specification | : | Dipole Antenna/ Gain: 2.15 dBi | | | | | | | | | |
| Modulation Technique | : | 802.11b : DSSS (Type: CCK, DQPSK, DBPSK) | | | | | | | | | |
| | | 802.11g : OFDM (Type: 64QAM, 16QAM, QPSK, BPSK) 802.11n : OFDM (Type: 64QAM, 16QAM, QPSK, BPSK) | | | | | | | | | |
| Transmit Data Rate | : | 802.11b : 11/5.5/2/1 Mbps 802.11g : 54/48/36/24/18/12/9/6 Mbps 802.11n : up to 135Mbps | | | | | | | | | |
| | | Dimensions : 115 mm (L) X 150 mm (W) X 30 mm (H) Weight : 420g Function : The EUT is a Vehicle Video Recorder using WIFI to make data transmission. ※For more detail specification, please refer to the User Manual. | | | | | | | | | |

1.2 Test Instruments

Instruments Used for Measurement

HA1

| Instrument Name | Manufacture Mode | Model Number | Serial Number | Last Cal. Date | Next Cal. Date |
|------------------------------|------------------|------------------|---------------|----------------|----------------|
| RF Amplifier | AR | 15S1G3 | 306578 | 11-AUG-2014 | 11-AUG-2015 |
| EMI Receiver | R&S | ESCI | 100615 | 03-MAR-2014 | 03-MAR-2015 |
| Spectrum Analyzer | R&S | FSL6 | 100323 | 11-JUN-2014 | 11-JUN-2015 |
| Spectrum Analyzer | Advantest | R3172 | 101202158 | 24-JUN-2014 | 24-JUN-2015 |
| Preamplifier | WIRELESS | FPA-6592G | 060009 | 09-JUL-2014 | 09-JUL-2015 |
| Preamplifier | HD | HD17187 | 004 | 04-AUG-2014 | 04-AUG-2015 |
| Bilog Antenna | TESEQ | CBL6111D | 25769 | 03-MAR-2014 | 03-MAR-2015 |
| Bilog Antenna | Schaffner | CBL6112B | 2860 | 12-AUG-2014 | 12-AUG-2015 |
| Double-Ridged Waveguide Horn | EMCO | 3115 | 9912-5992 | 04-MAY-2014 | 04-MAY-2015 |
| Temp. & Humidity Chamber | Giant Force | GTH-150-20-SP-AR | MMA0907-012 | 22-JUL-2014 | 22-JUL-2015 |
| Horn Antenna (18-40GHz) | Com-Power | AH-840 | 101042 | 03-Jul-2014 | 03-Jul-2015 |
| Microwave Preamplifier | Com-Power | PAM-840 | 461269 | 02-Jul-2014 | 02-Jul-2015 |
| L.I.S.N. | Mess Tec | NNB-2/16Z | 03/1006 | 24-Jan-2014 | 24-Jan-2015 |
| L.I.S.N. | EMCIS | LN2-16 | LN04023 | 01-Aug-2014 | 01-Aug-2015 |
| Wideband Power Sensor | R&S | NRP-Z11 | 111731 | 05-Dec-2013 | 05-Dec-2014 |

※ The test equipments used are calibrated and can be traced to National ITRI and International Standards.

1.3 Auxiliary Equipments

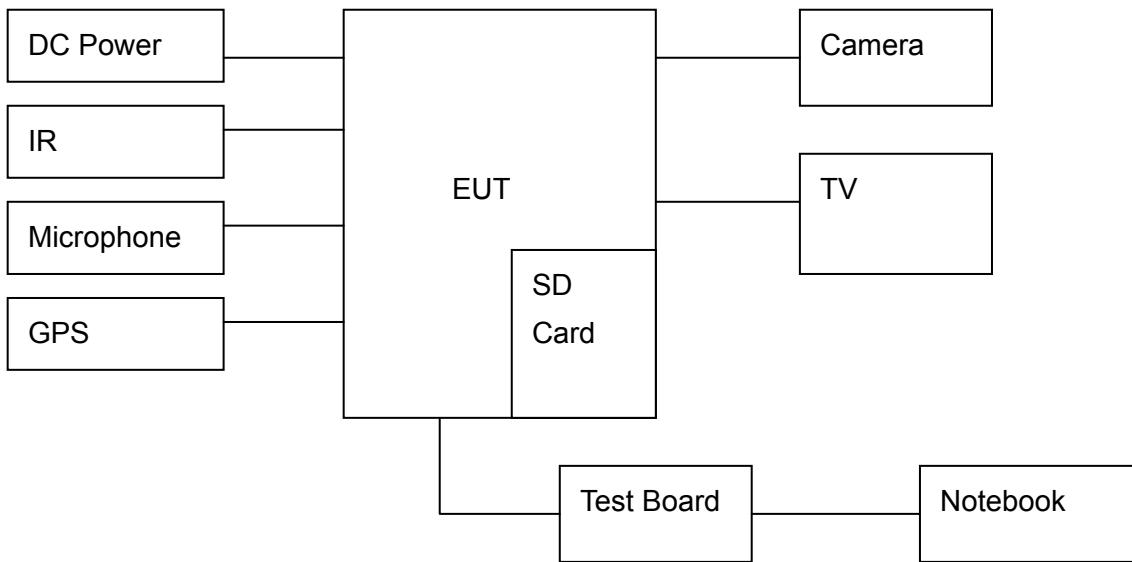
1.3.1. Provided by HongAn Technology Co., Ltd. for Emission Test.

| No. | Equipment | Model No. | Serial No. | EMC Approved | Brand | Power Cord |
|-----|---------------|-------------|---------------|--------------|-------|--------------------------------------|
| 1 | SD Card No. 7 | SF-4C4 | 052 CC00F0000 | FCC DoC | SONY | 4G |
| 2 | HD TV No.1 | KLV-32V300A | 7005820 | FCC DoC | SONY | Non-shielded, detachable, 1.8m |
| 5 | Audio Cable | N/A | N/A | N/A | N/A | Shielded, Detachable 0.3m, w/o core |
| 6 | Video Cable | N/A | N/A | N/A | N/A | Shielded, Detachable 1.54m, w/o core |

1.3.2. Provided by the Manufacturer

| No. | Equipment | Model No. | Serial No. | EMC Approved | Brand | Remark |
|-----|-----------|-----------|------------|--------------|-------|--|
| 01 | Camera | N/A | N/A | N/A | FUHO | Non-shielded, Detachable 1.68m, w/o core |

1.4 EUT SETUP



Note: Main Test Sample: VVH-MDE204

1.5 Identifying the Final Test Mode

1. Mode 1: TX WIFI mode (802.11b) CH 01.
2. Mode 2: TX WIFI mode (802.11b) CH 06.
3. Mode 3: TX WIFI mode (802.11b) CH 11.
4. Mode 4: TX WIFI mode (802.11g) CH 01.
5. Mode 5: TX WIFI mode (802.11g) CH 06.
6. Mode 6: TX WIFI mode (802.11g) CH 11.
7. Mode 7: TX WIFI mode (802.11n [20M]) CH 01.

- 8. Mode 8: TX WIFI mode (802.11n [20M]) CH 06.
- 9. Mode 9: TX WIFI mode (802.11n [20M]) CH 11.
- 10. Mode 10: TX WIFI mode (802.11n [40M]) CH 03.
- 11. Mode 11: TX WIFI mode (802.11n [40M]) CH 06.
- 12. Mode 12: TX WIFI mode (802.11n [40M]) CH 09.

Note:

- 1. During radiated emission pre-test, rotation of the EUT through three orthogonal axes has been evaluated. A variation in the primary supply voltage from 85% to 115% of the rated supply voltage has been evaluated. And, the variation in supply voltage has no significant influence to the test result.
- 2. After pre-test, we identified that the TX Vertical Position was most likely to cause maximum disturbance and most likely to be susceptible to disturbance. Therefore, the Final Assessment was performed for the worst case. All pre-test data show at appendix.
- 3. The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.
- 4. Channel Low (2412MHz), Mid (2437MHz) and High (2462MHz) with highest data rate were chosen for full testing.
- 5. According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C.

1.6 Final Test Mode (Worst Case)

802.11b: CCK 1Mbps.

802.11g: 64QAM 6Mbps.

802.11n (20M&40M): 64QAM MCS0.

Conducted Emission: N/A.

Radiated Emission (30~1000 MHz): Mode 1.

Radiated Emission (1~26.5GHz): All Mode.

1.7 Condition of Power Supply

AC 120 V, 60Hz

1.8 EUT Configuration

1. Setup the EUT as shown in Sec.1.4 Block Diagram.
2. Turn on the power of all equipments.
3. Activate the selected Final Test Mode.

1.9 Test Methodology

The tests documented in this report were performed in accordance with ANSI C63.4 (2003) and FCC CFR 47 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057, 15.203, 15.207, 15.209 and 15.247.

1.10 General Test Procedures

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4 (2003) Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3 m away from the receiving antenna, which varied from 1 m to 4 m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter(EUT) was rotated through three orthogonal axes according to the requirements in Section 13.1.4.1 of ANSI C 63.4 (2003).

1.11 Modification

N/A

1.12 FCC Part 15.205 restricted bands of operations

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

| 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 |
| 8.37635-8.38675 | 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 | | | |

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

² Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

1.13 Qualification of Test Facility

| | |
|------------------------------|--|
| BSMI Certificate No. | : SL2-IS-E-0023, SL2-IN-E-0023, SL2-R1-E-0023, SL2-R2-E-0023, : SL2-A1-E-0023, SL2-L1-E-0023. |
| FCC Designation No. | : TW1071 |
| TAF Accreditation No. | : 1163 |
| VCCI Certificate No. | : R-2156, C-2329, T-219 |

2 Power line Conducted Emission Measurement

2.1 Test Instruments

Refer to Sec. 1.2 Test Instruments.

2.2 Test Arrangement and Procedure

1. The EUT was placed on a table, which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

2.3 Limit (§ 15.207)

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

| Frequency (MHz) | Limits (dBuV) | |
|-----------------|-------------------|----------------|
| | Q.P. (Quasi-Peak) | A.V. (Average) |
| 0.15 to 0.50 | 66 to 56 | 56 to 46 |
| 0.50 to 5.0 | 56 | 46 |
| 5.0 to 30 | 60 | 50 |

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

2.4 Test Result

N/A

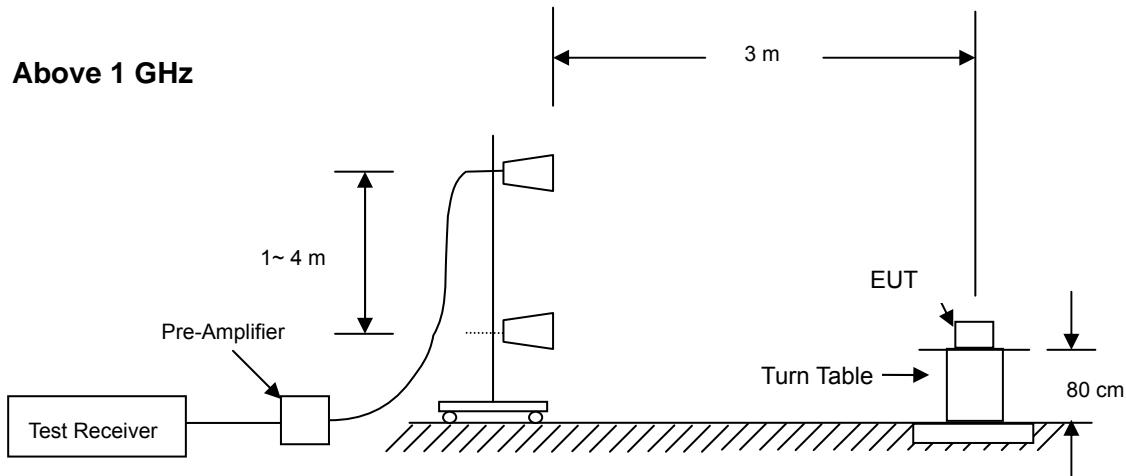
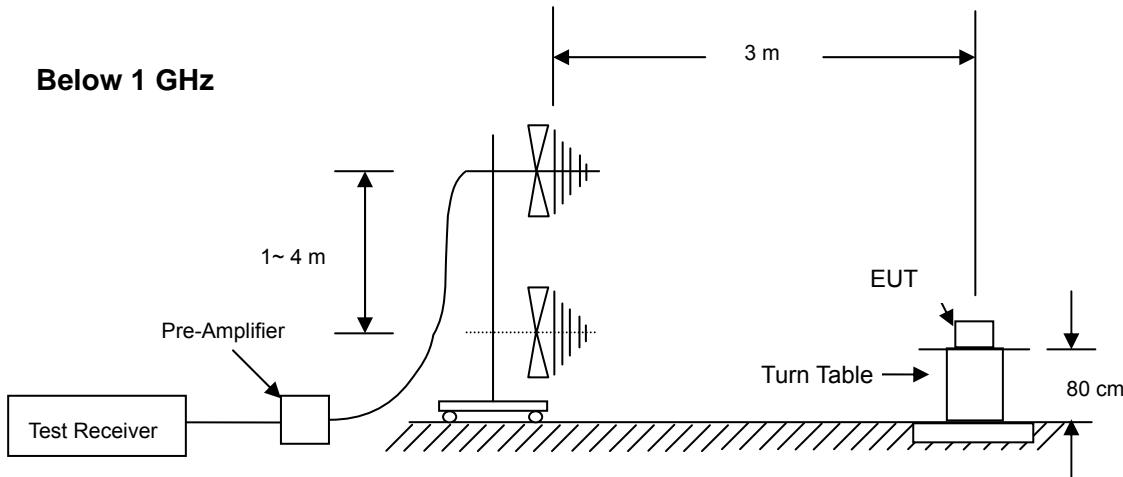
The EUT uses DC power supply from vehicle.

3 Radiated Emission Test

3.1 Test Instruments

Refer to Sec. 1.2 Test Instruments.

3.2 Test Arrangement and Procedure



1. The EUT is placed on a turntable, which is 0.8 m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3 m away from the receiving antenna, which is varied from 1 m to 4 m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Set the spectrum analyzer in the following setting as:
 - (a) Below 1 GHz: RBW = 100 kHz/ VBW = 1 MHz/ Sweep = AUTO.
 - (b) Above 1 GHz: Peak: RBW = VBW = 1MHz/ Sweep = AUTO.

7. Repeat above procedures until the measurements for all frequencies are complete.

3.3 Limit of Spurious Emission (§ 15.209)

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is lesser attenuation.

| Frequency (MHz) | Field strength (microvolts/ meter) | Measurement distance (meters) |
|--------------------|---------------------------------------|----------------------------------|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30.0 | 30 | 30 |
| 30-88 | 100** | 3 |
| 88-216 | 150** | 3 |
| 216-960 | 200** | 3 |
| Above 960 | 500 | 3 |

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g §§ 15.231 and 15.241.

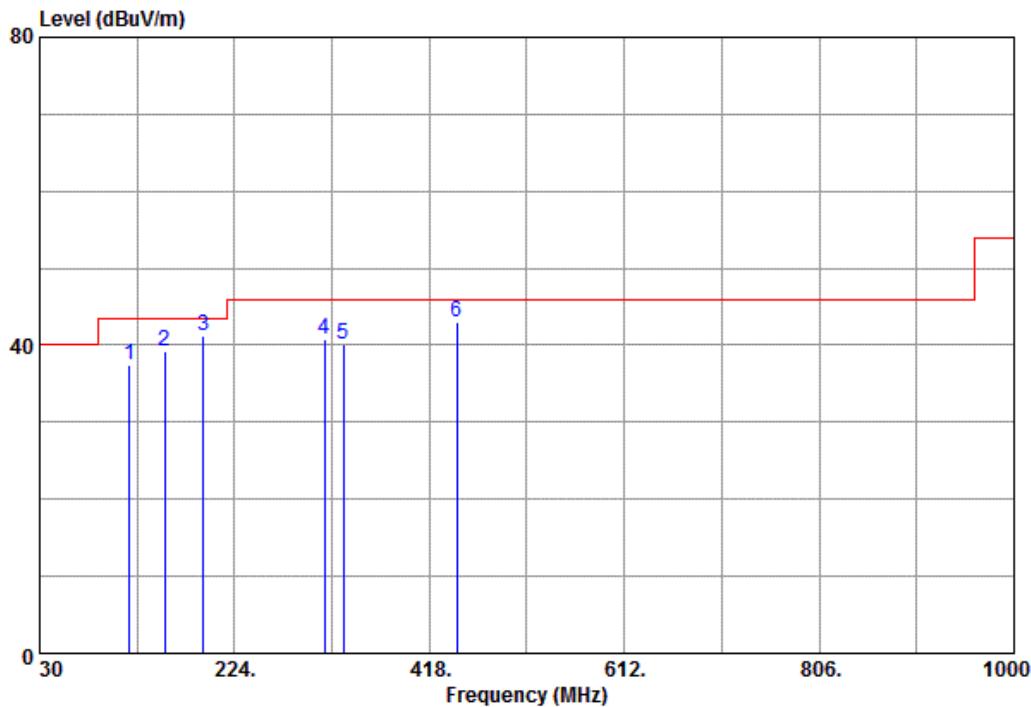
3.4 Test Result

Compliance

The final test data are shown on the following page(s).

Radiated Emission Test Data (Below 1 GHz)

Temperature : 26.4°C Humidity : 35%
Test Date : 08-Oct-2014 Tested by : Kidd Liao
Polarization : Vertical Channel : CH01 (2412MHz)
Test Mode : Mode 1



| Freq | Reading | C.F | Result | Limit | Margin | A/pos | T/pos | Remark |
|-------------|------------------|--------|---------------------|---------------------|--------|-------|-------|--------|
| MHz | dB _{UV} | dB | dB _{UV} /m | dB _{UV} /m | dB | | | |
| 1 119.240 | 60.19 | -22.84 | 37.35 | 43.50 | -6.15 | --- | --- | |
| 2 154.160 | 61.25 | -22.09 | 39.16 | 43.50 | -4.34 | --- | --- | |
| 3 @ 192.960 | 58.61 | -17.32 | 41.29 | 43.50 | -2.21 | --- | --- | |
| 4 313.240 | 57.37 | -16.65 | 40.72 | 46.00 | -5.28 | --- | --- | |
| 5 332.640 | 55.63 | -15.44 | 40.19 | 46.00 | -5.81 | --- | --- | |
| 6 445.160 | 56.58 | -13.57 | 43.01 | 46.00 | -2.99 | --- | --- | |

C.F = Antenna Factor + Cable Loss - Preamp gain
Result = Reading + C.F ; Margin = Result - Limit

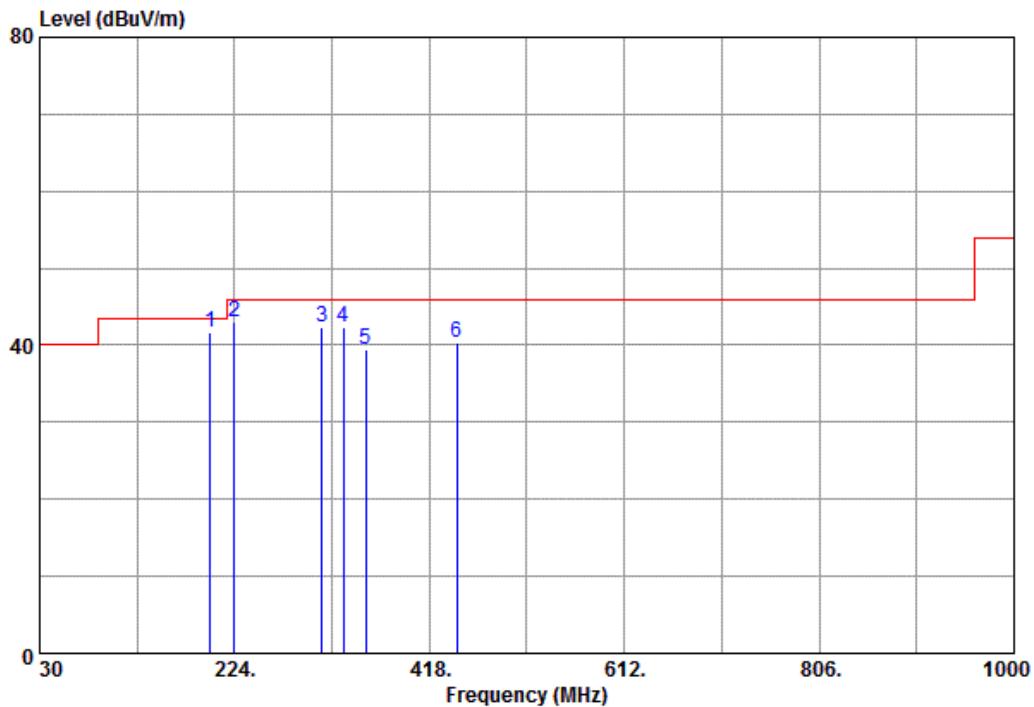
@ : Maximum Data x : Over Limit

Remark :

1. Measuring frequencies from 30 MHz to 1 GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode.
3. Data of measurement within this frequency range shown “---” in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
4. All readings are Peak values. None of the peak value reading exceeds the Q.P. limit. Hence, Q.P. reading was not measured.
5. The IF bandwidth of SPA between 30 MHz to 1 GHz was 100 kHz.

Radiated Emission Test Data (Below 1 GHz)

| | | | |
|--------------|---------------|-----------|------------------|
| Temperature | : 26.4°C | Humidity | : 35% |
| Test Date | : 08-Oct-2014 | Tested by | : Kidd Liao |
| Polarization | : Horizontal | Channel | : CH01 (2412MHz) |
| Test Mode | : Mode 1 | | |



| Freq | Reading | C.F | Result | Limit | Margin | A/pos | T/pos | Remark |
|-------------|------------------|--------|---------------------|---------------------|--------|-------|-------|--------|
| MHz | dB _{UV} | dB | dB _{UV} /m | dB _{UV} /m | dB | | | |
| 1 @ 199.750 | 59.02 | -17.24 | 41.78 | 43.50 | -1.72 | --- | --- | |
| 2 224.000 | 61.12 | -18.17 | 42.95 | 46.00 | -3.05 | --- | --- | |
| 3 311.300 | 58.99 | -16.75 | 42.24 | 46.00 | -3.76 | --- | --- | |
| 4 332.640 | 57.77 | -15.44 | 42.33 | 46.00 | -3.67 | --- | --- | |
| 5 354.950 | 54.21 | -14.77 | 39.44 | 46.00 | -6.56 | --- | --- | |
| 6 445.160 | 53.94 | -13.57 | 40.37 | 46.00 | -5.63 | --- | --- | |

C.F = Antenna Factor + Cable Loss - Preamp gain
Result = Reading + C.F ; Margin = Result - Limit

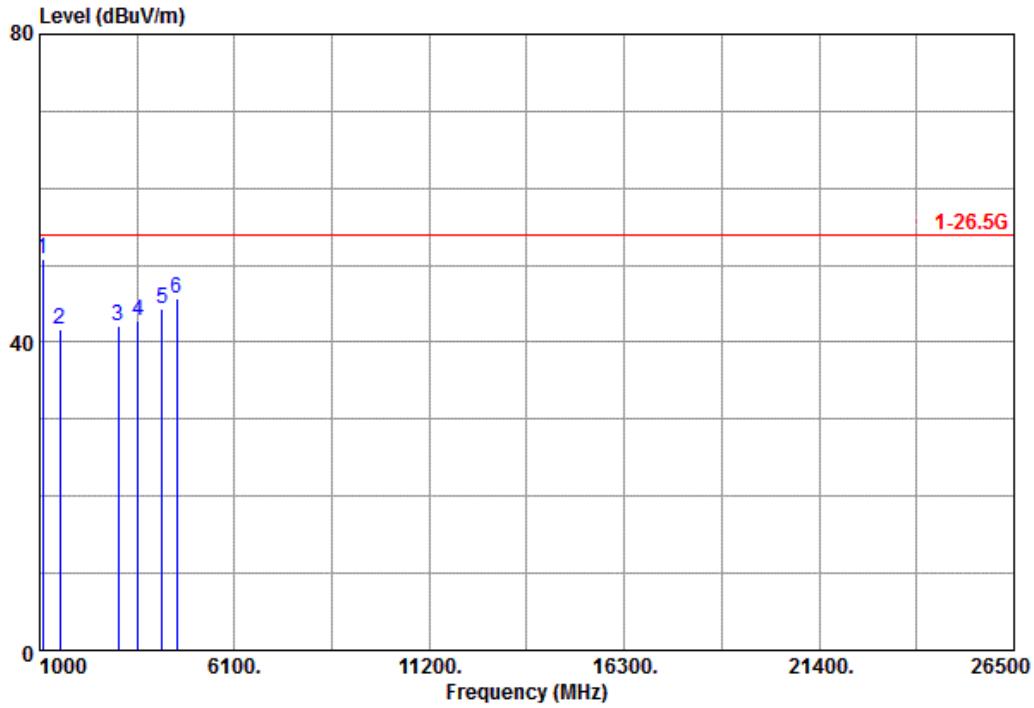
@ : Maximum Data x : Over Limit

Remark :

1. Measuring frequencies from 30 MHz to 1 GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode.
3. Data of measurement within this frequency range shown “---” in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
4. All readings are Peak values. None of the peak value reading exceeds the Q.P. limit. Hence, Q.P. reading was not measured.
5. The IF bandwidth of SPA between 30 MHz to 1 GHz was 100 kHz.

Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)

| | | | |
|--------------|---------------|-----------|-------------------|
| Temperature | : 26.4°C | Humidity | : 35% |
| Test Date | : 08-Oct-2014 | Tested by | : Kidd Liao |
| Polarization | : Vertical | Channel | : CH01 (2412 MHz) |
| Test Mode | : Mode 1 | | |



| Freq | Reading | C.F | Result | Limit | Margin | A/pos | T/pos | Remark |
|------------|---------|--------|--------|--------|--------|-------|-------|--------|
| MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | | |
| 1 1076.500 | 63.79 | -13.01 | 50.78 | 54.00 | -3.22 | --- | --- | |
| 2 1535.500 | 52.64 | -10.86 | 41.78 | 54.00 | -12.22 | --- | --- | |
| 3 3065.500 | 47.75 | -5.64 | 42.11 | 54.00 | -11.89 | --- | --- | |
| 4 3575.500 | 46.94 | -4.17 | 42.77 | 54.00 | -11.23 | --- | --- | |
| 5 4213.000 | 46.39 | -2.04 | 44.35 | 54.00 | -9.65 | --- | --- | |
| 6 4595.500 | 46.12 | -0.38 | 45.74 | 54.00 | -8.26 | --- | --- | |

C.F = Antenna Factor + Cable Loss - Preamp gain
Result = Reading + C.F ; Margin = Result - Limit

@ : Maximum Data x : Over Limit

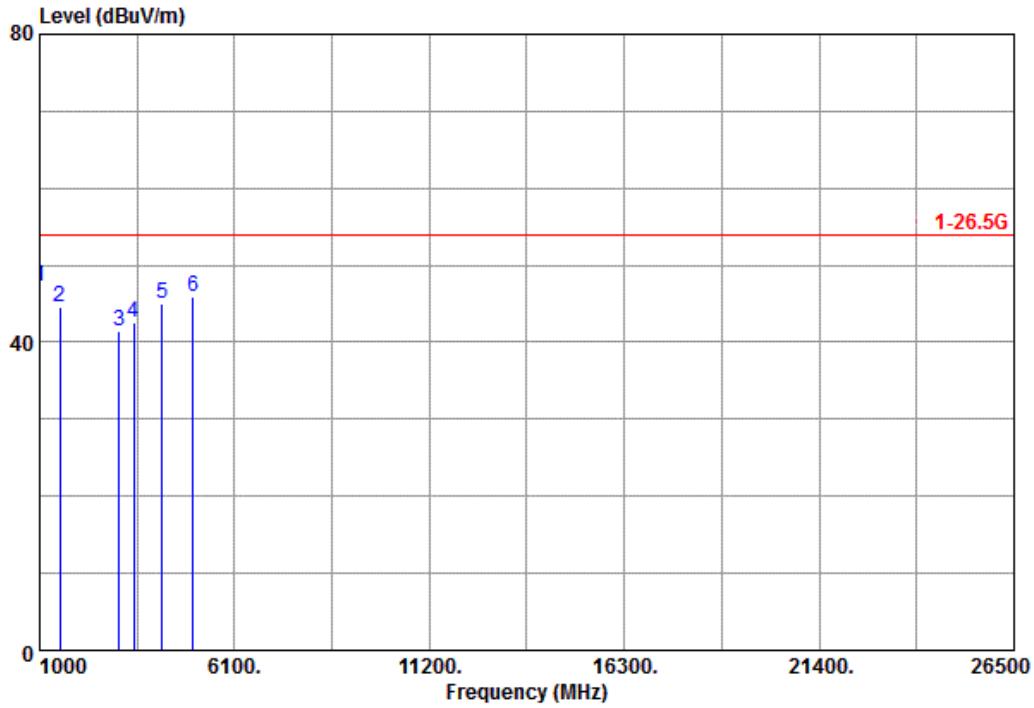
Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:

Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)

| | | | |
|--------------|---------------|-----------|-------------------|
| Temperature | : 26.4°C | Humidity | : 35% |
| Test Date | : 08-Oct-2014 | Tested by | : Kidd Liao |
| Polarization | : Horizontal | Channel | : CH01 (2412 MHz) |
| Test Mode | : Mode 1 | | |



| Freq | Reading | C.F | Result | Limit | Margin | A/pos | T/pos | Remark |
|-------------|---------|--------|--------|--------|--------|-------|-------|--------|
| MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | | |
| 1 @1000.000 | 60.64 | -13.32 | 47.32 | 54.00 | -6.68 | --- | --- | |
| 2 1535.500 | 55.41 | -10.86 | 44.55 | 54.00 | -9.45 | --- | --- | |
| 3 3091.000 | 47.12 | -5.59 | 41.53 | 54.00 | -12.47 | --- | --- | |
| 4 3473.500 | 47.12 | -4.46 | 42.66 | 54.00 | -11.34 | --- | --- | |
| 5 4213.000 | 47.01 | -2.04 | 44.97 | 54.00 | -9.03 | --- | --- | |
| 6 5003.500 | 44.63 | 1.34 | 45.97 | 54.00 | -8.03 | --- | --- | |

C.F = Antenna Factor + Cable Loss - Preamp gain
Result = Reading + C.F ; Margin = Result - Limit

@ : Maximum Data x : Over Limit

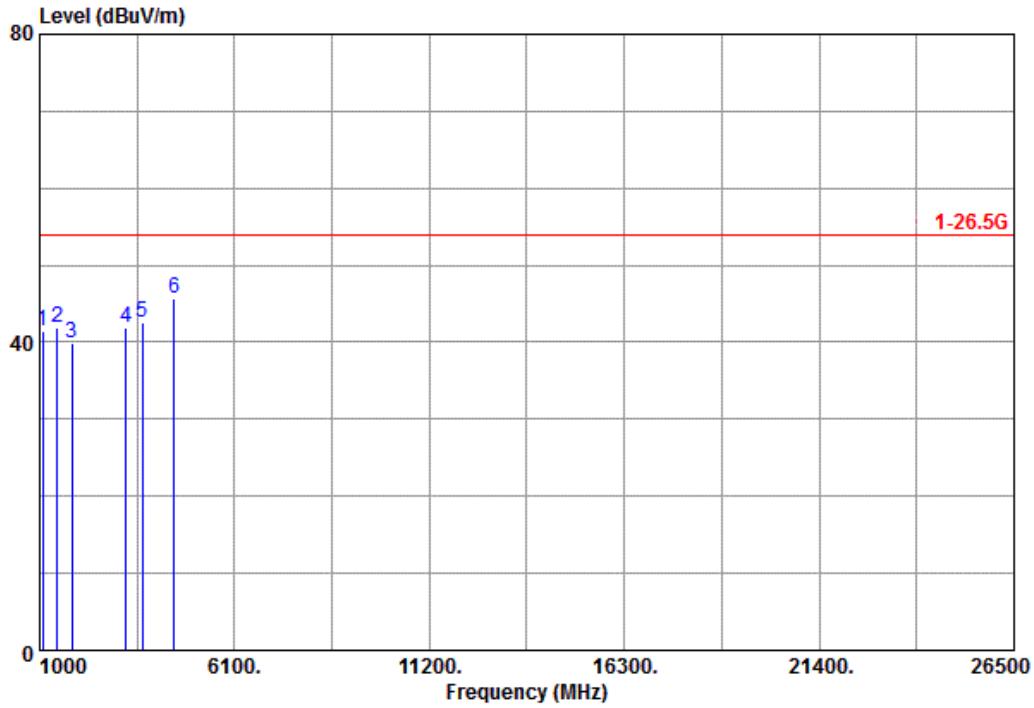
Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:

Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)

| | | | |
|--------------|---------------|-----------|-------------------|
| Temperature | : 26.4°C | Humidity | : 35% |
| Test Date | : 08-Oct-2014 | Tested by | : Kidd Liao |
| Polarization | : Vertical | Channel | : CH06 (2437 MHz) |
| Test Mode | : Mode 2 | | |



| Freq | Reading | C.F | Result | Limit | Margin | A/pos | T/pos | Remark |
|------------|---------|--------|--------|--------|--------|-------|-------|--------|
| MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | | |
| 1 1076.500 | 54.50 | -13.01 | 41.49 | 54.00 | -12.51 | --- | --- | |
| 2 1459.000 | 53.13 | -11.24 | 41.89 | 54.00 | -12.11 | --- | --- | |
| 3 1841.500 | 49.30 | -9.47 | 39.83 | 54.00 | -14.17 | --- | --- | |
| 4 3269.500 | 47.03 | -5.06 | 41.97 | 54.00 | -12.03 | --- | --- | |
| 5 3677.500 | 46.51 | -3.87 | 42.64 | 54.00 | -11.36 | --- | --- | |
| 6 4519.000 | 46.38 | -0.74 | 45.64 | 54.00 | -8.36 | --- | --- | |

C.F = Antenna Factor + Cable Loss - Preamp gain
Result = Reading + C.F ; Margin = Result - Limit

@ : Maximum Data x : Over Limit

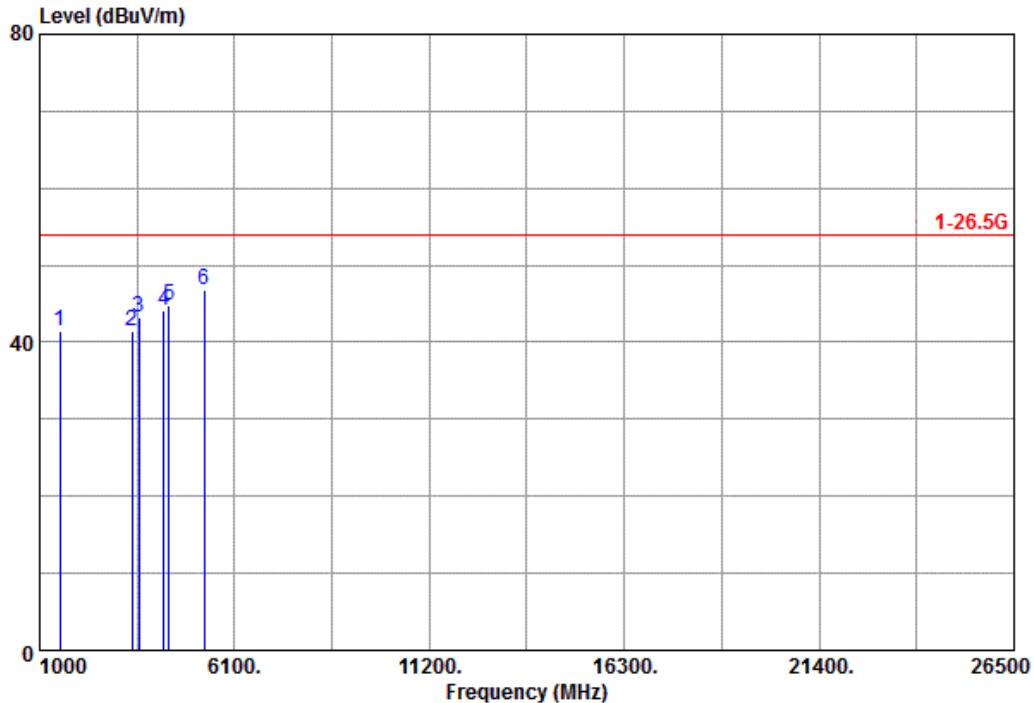
Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:

Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)

| | | | |
|--------------|---------------|-----------|-------------------|
| Temperature | : 26.4°C | Humidity | : 35% |
| Test Date | : 08-Oct-2014 | Tested by | : Kidd Liao |
| Polarization | : Horizontal | Channel | : CH06 (2437 MHz) |
| Test Mode | : Mode 2 | | |



| Freq | Reading | C.F | Result | Limit | Margin | A/pos | T/pos | Remark |
|-------------|---------|--------|--------|--------|--------|-------|-------|--------|
| MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | | |
| 1 1535.500 | 52.38 | -10.86 | 41.52 | 54.00 | -12.48 | --- | --- | |
| 2 3422.500 | 46.13 | -4.66 | 41.47 | 54.00 | -12.53 | --- | --- | |
| 3 3601.000 | 47.27 | -4.12 | 43.15 | 54.00 | -10.85 | --- | --- | |
| 4 4238.500 | 45.98 | -1.97 | 44.01 | 54.00 | -9.99 | --- | --- | |
| 5 4391.500 | 46.01 | -1.24 | 44.77 | 54.00 | -9.23 | --- | --- | |
| 6 @5309.500 | 44.77 | 2.13 | 46.90 | 54.00 | -7.10 | --- | --- | |

C.F = Antenna Factor + Cable Loss - Preamp gain
Result = Reading + C.F ; Margin = Result - Limit

@ : Maximum Data x : Over Limit

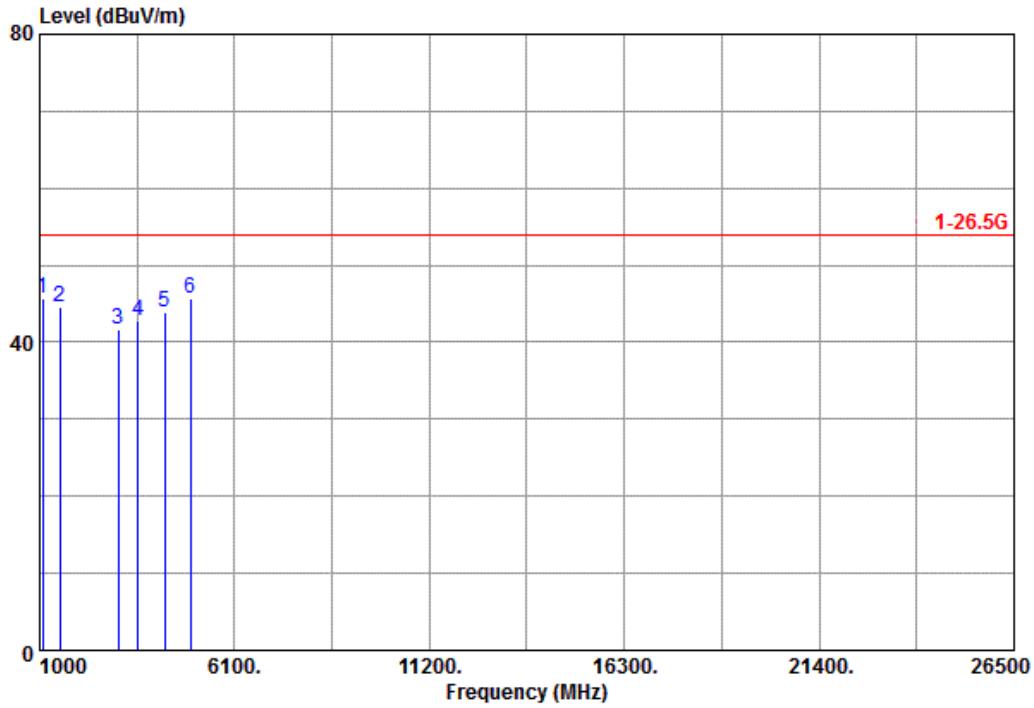
Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:

Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)

| | | | |
|--------------|---------------|-----------|-------------------|
| Temperature | : 26.4°C | Humidity | : 35% |
| Test Date | : 08-Oct-2014 | Tested by | : Kidd Liao |
| Polarization | : Vertical | Channel | : CH11 (2462 MHz) |
| Test Mode | : Mode 3 | | |



| Freq | Reading | C.F | Result | Limit | Margin | A/pos | T/pos | Remark |
|-------------|---------|--------|--------|--------|--------|-------|-------|--------|
| MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | | |
| 1 01076.500 | 58.74 | -13.01 | 45.73 | 54.00 | -8.27 | --- | --- | |
| 2 1535.500 | 55.44 | -10.86 | 44.58 | 54.00 | -9.42 | --- | --- | |
| 3 3065.500 | 47.36 | -5.64 | 41.72 | 54.00 | -12.28 | --- | --- | |
| 4 3575.500 | 46.96 | -4.17 | 42.79 | 54.00 | -11.21 | --- | --- | |
| 5 4264.000 | 45.82 | -1.83 | 43.99 | 54.00 | -10.01 | --- | --- | |
| 6 4952.500 | 44.64 | 1.08 | 45.72 | 54.00 | -8.28 | --- | --- | |

C.F = Antenna Factor + Cable Loss - Preamp gain
Result = Reading + C.F ; Margin = Result - Limit

@ : Maximum Data x : Over Limit

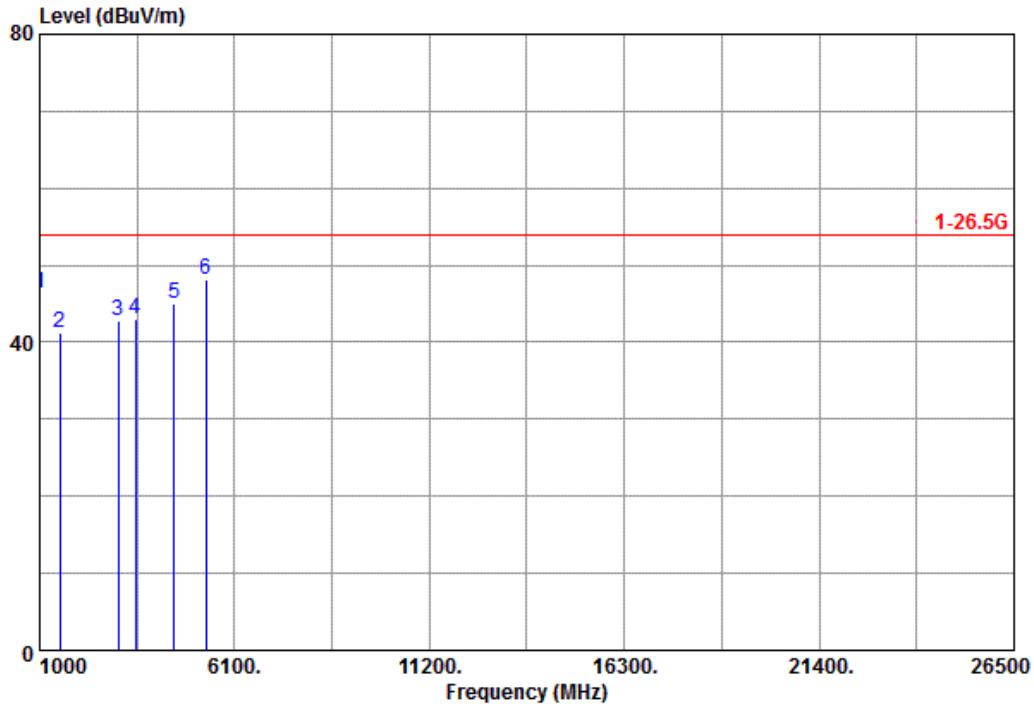
Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:

Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)

| | | | |
|--------------|---------------|-----------|-------------------|
| Temperature | : 26.4°C | Humidity | : 35% |
| Test Date | : 08-Oct-2014 | Tested by | : Kidd Liao |
| Polarization | : Horizontal | Channel | : CH11 (2462 MHz) |
| Test Mode | : Mode 3 | | |



| Freq | Reading | C.F | Result | Limit | Margin | A/pos | T/pos | Remark |
|-------------|---------|--------|--------|--------|--------|-------|-------|--------|
| MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | | |
| 1 1000.000 | 59.77 | -13.32 | 46.45 | 54.00 | -7.55 | --- | --- | |
| 2 1535.500 | 52.06 | -10.86 | 41.20 | 54.00 | -12.80 | --- | --- | |
| 3 3065.500 | 48.47 | -5.64 | 42.83 | 54.00 | -11.17 | --- | --- | |
| 4 3499.000 | 47.32 | -4.40 | 42.92 | 54.00 | -11.08 | --- | --- | |
| 5 4519.000 | 45.85 | -0.74 | 45.11 | 54.00 | -8.89 | --- | --- | |
| 6 @5360.500 | 45.96 | 2.21 | 48.17 | 54.00 | -5.83 | --- | --- | |

C.F = Antenna Factor + Cable Loss - Preamp gain
Result = Reading + C.F ; Margin = Result - Limit

@ : Maximum Data x : Over Limit

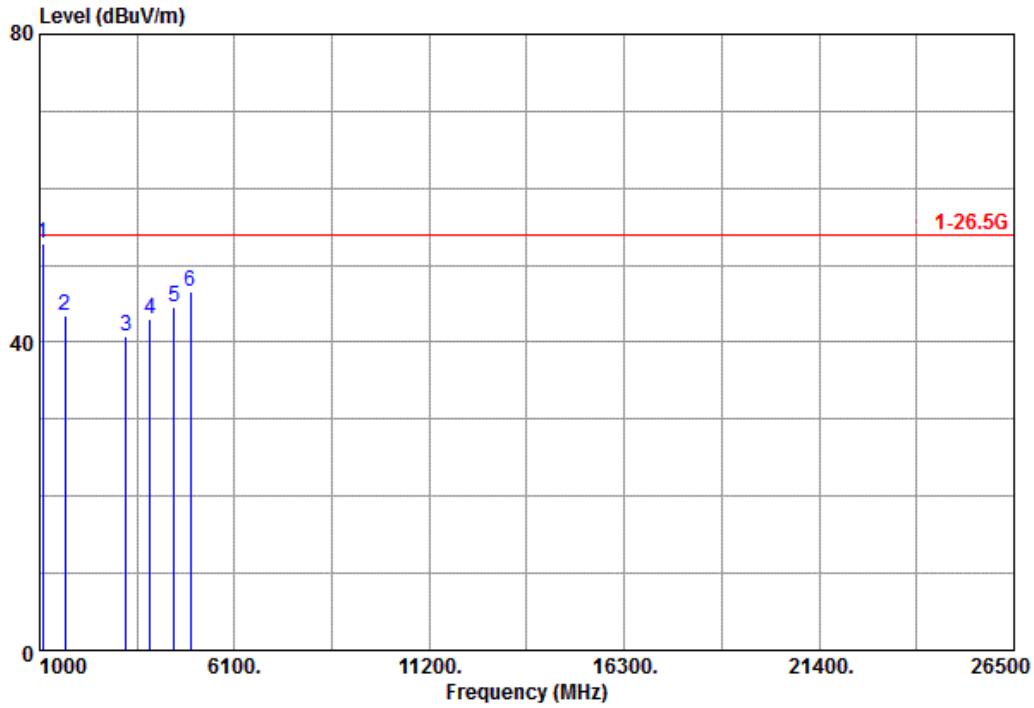
Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:

Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)

| | | | |
|--------------|---------------|-----------|-------------------|
| Temperature | : 26.4°C | Humidity | : 35% |
| Test Date | : 08-Oct-2014 | Tested by | : Kidd Liao |
| Polarization | : Vertical | Channel | : CH01 (2412 MHz) |
| Test Mode | : Mode 4 | | |



| Freq | Reading | C.F | Result | Limit | Margin | A/pos | T/pos | Remark |
|------------|---------|--------|--------|--------|--------|-------|-------|--------|
| MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | | |
| 1 1076.500 | 65.84 | -13.01 | 52.83 | 54.00 | -1.17 | --- | --- | |
| 2 1663.000 | 53.81 | -10.32 | 43.49 | 54.00 | -10.51 | --- | --- | |
| 3 3269.500 | 45.93 | -5.06 | 40.87 | 54.00 | -13.13 | --- | --- | |
| 4 3881.500 | 46.30 | -3.29 | 43.01 | 54.00 | -10.99 | --- | --- | |
| 5 4519.000 | 45.28 | -0.74 | 44.54 | 54.00 | -9.46 | --- | --- | |
| 6 4952.500 | 45.54 | 1.08 | 46.62 | 54.00 | -7.38 | --- | --- | |

C.F = Antenna Factor + Cable Loss - Preamp gain
Result = Reading + C.F ; Margin = Result - Limit

@ : Maximum Data x : Over Limit

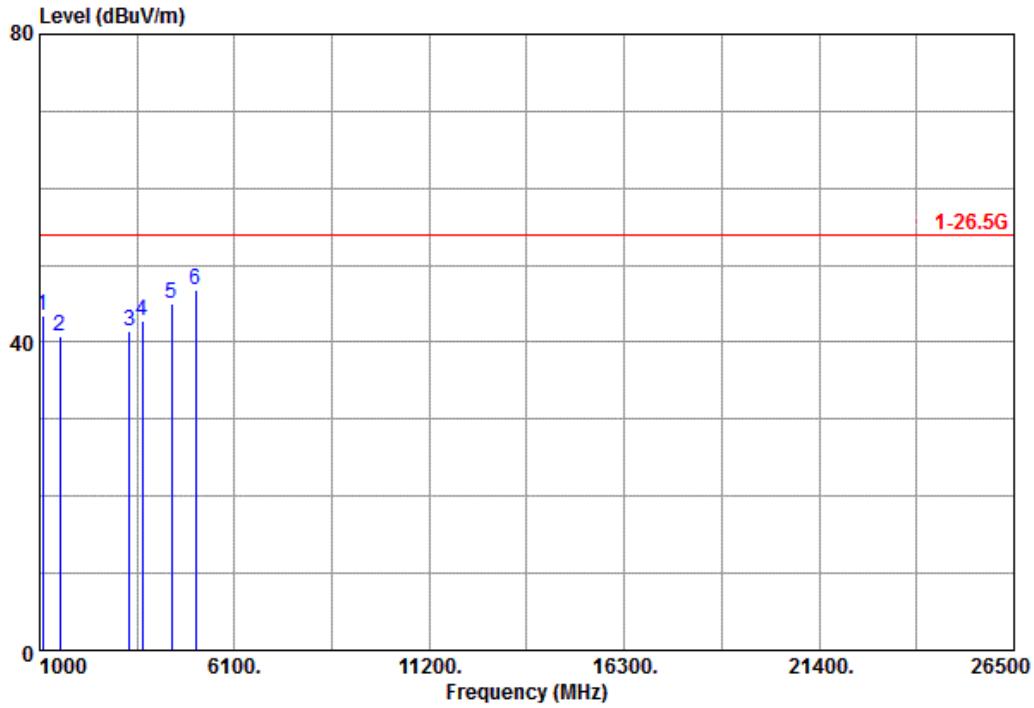
Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:

Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)

| | | | |
|--------------|---------------|-----------|-------------------|
| Temperature | : 26.4°C | Humidity | : 35% |
| Test Date | : 08-Oct-2014 | Tested by | : Kidd Liao |
| Polarization | : Horizontal | Channel | : CH01 (2412 MHz) |
| Test Mode | : Mode 4 | | |



| Freq | Reading | C.F | Result | Limit | Margin | A/pos | T/pos | Remark |
|-------------|---------|--------|--------|--------|--------|-------|-------|--------|
| MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | | |
| 1 1076.500 | 56.52 | -13.01 | 43.51 | 54.00 | -10.49 | --- | --- | |
| 2 1535.500 | 51.63 | -10.86 | 40.77 | 54.00 | -13.23 | --- | --- | |
| 3 3346.000 | 46.19 | -4.85 | 41.34 | 54.00 | -12.66 | --- | --- | |
| 4 3677.500 | 46.76 | -3.87 | 42.89 | 54.00 | -11.11 | --- | --- | |
| 5 4442.500 | 46.01 | -1.11 | 44.90 | 54.00 | -9.10 | --- | --- | |
| 6 @5080.000 | 45.35 | 1.52 | 46.87 | 54.00 | -7.13 | --- | --- | |

C.F = Antenna Factor + Cable Loss - Preamp gain
Result = Reading + C.F ; Margin = Result - Limit

@ : Maximum Data x : Over Limit

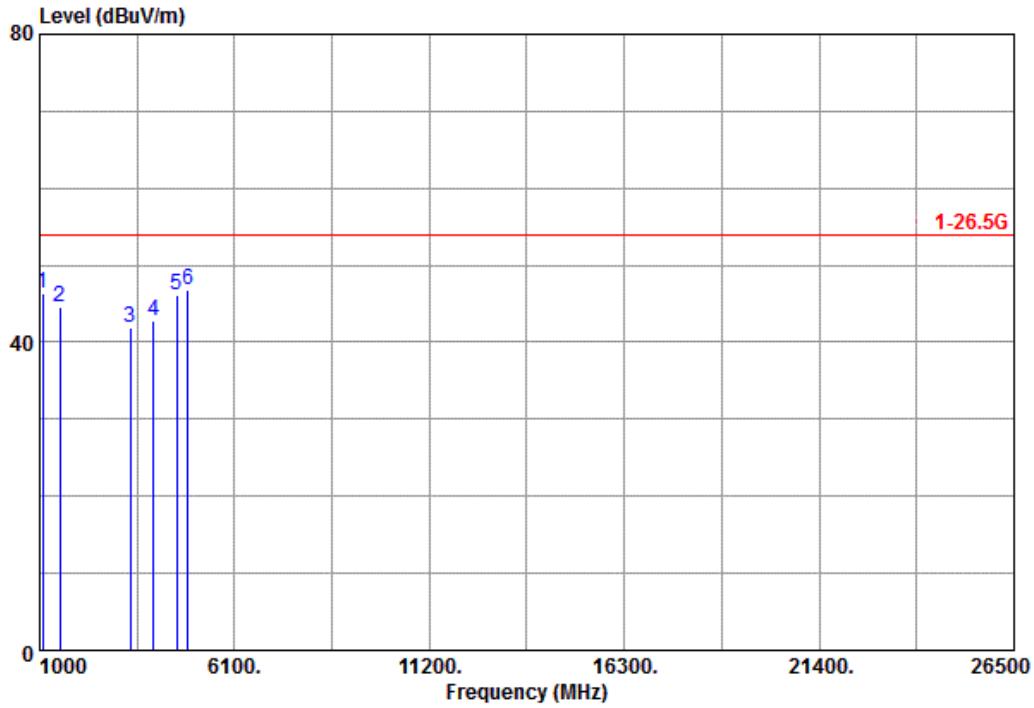
Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:

Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)

| | | | |
|--------------|---------------|-----------|-------------------|
| Temperature | : 26.4°C | Humidity | : 35% |
| Test Date | : 08-Oct-2014 | Tested by | : Kidd Liao |
| Polarization | : Vertical | Channel | : CH06 (2437 MHz) |
| Test Mode | : Mode 5 | | |



| Freq | Reading | C.F | Result | Limit | Margin | A/pos | T/pos | Remark |
|---------------|---------|--------|--------|--------|--------|-------|-------|--------|
| MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | | |
| 1 1076.500 | 59.44 | -13.01 | 46.43 | 54.00 | -7.57 | --- | --- | |
| 2 1535.500 | 55.39 | -10.86 | 44.53 | 54.00 | -9.47 | --- | --- | |
| 3 3371.500 | 46.75 | -4.76 | 41.99 | 54.00 | -12.01 | --- | --- | |
| 4 3983.500 | 45.85 | -2.99 | 42.86 | 54.00 | -11.14 | --- | --- | |
| 5 4595.500 | 46.48 | -0.38 | 46.10 | 54.00 | -7.90 | --- | --- | |
| 6 @404876.000 | 46.04 | 0.80 | 46.84 | 54.00 | -7.16 | --- | --- | |

C.F = Antenna Factor + Cable Loss - Preamp gain
Result = Reading + C.F ; Margin = Result - Limit

@ : Maximum Data x : Over Limit

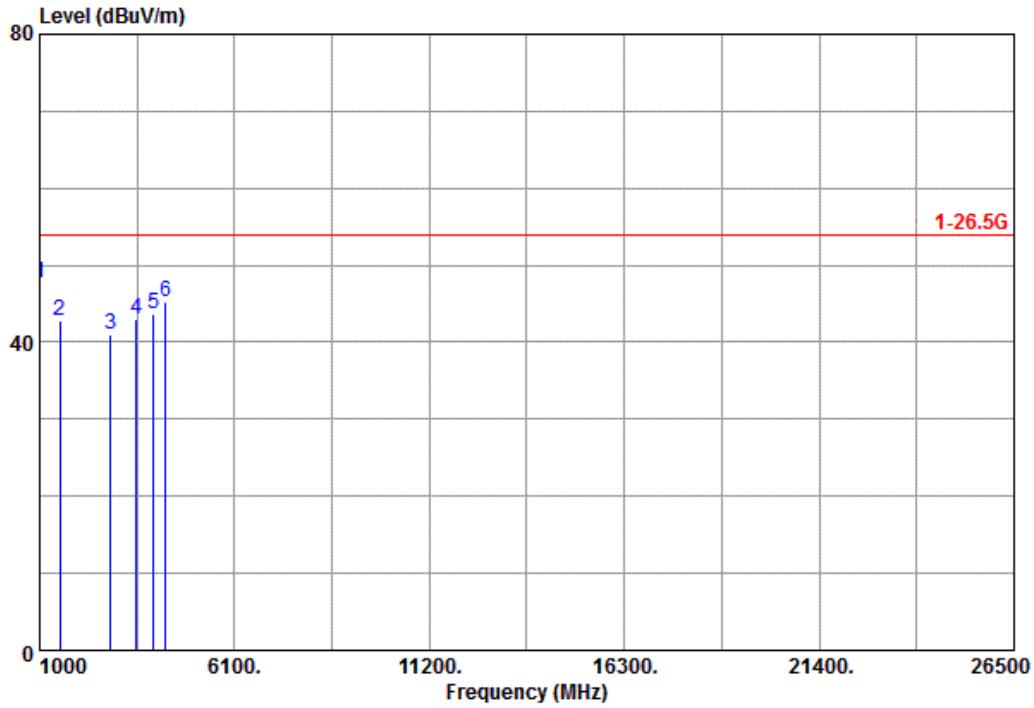
Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:

Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)

| | | | |
|--------------|---------------|-----------|-------------------|
| Temperature | : 26.4°C | Humidity | : 35% |
| Test Date | : 08-Oct-2014 | Tested by | : Kidd Liao |
| Polarization | : Horizontal | Channel | : CH06 (2437 MHz) |
| Test Mode | : Mode 5 | | |



| Freq | Reading | C.F | Result | Limit | Margin | A/pos | T/pos | Remark |
|-------------|---------|--------|--------|--------|--------|-------|-------|--------|
| MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | | |
| 1 @1000.000 | 61.00 | -13.32 | 47.68 | 54.00 | -6.32 | --- | --- | |
| 2 1535.500 | 53.75 | -10.86 | 42.89 | 54.00 | -11.11 | --- | --- | |
| 3 2861.500 | 47.31 | -6.25 | 41.06 | 54.00 | -12.94 | --- | --- | |
| 4 3524.500 | 47.29 | -4.37 | 42.92 | 54.00 | -11.08 | --- | --- | |
| 5 3983.500 | 46.58 | -2.99 | 43.59 | 54.00 | -10.41 | --- | --- | |
| 6 4289.500 | 46.97 | -1.68 | 45.29 | 54.00 | -8.71 | --- | --- | |

C.F = Antenna Factor + Cable Loss - Preamp gain
Result = Reading + C.F ; Margin = Result - Limit

@ : Maximum Data x : Over Limit

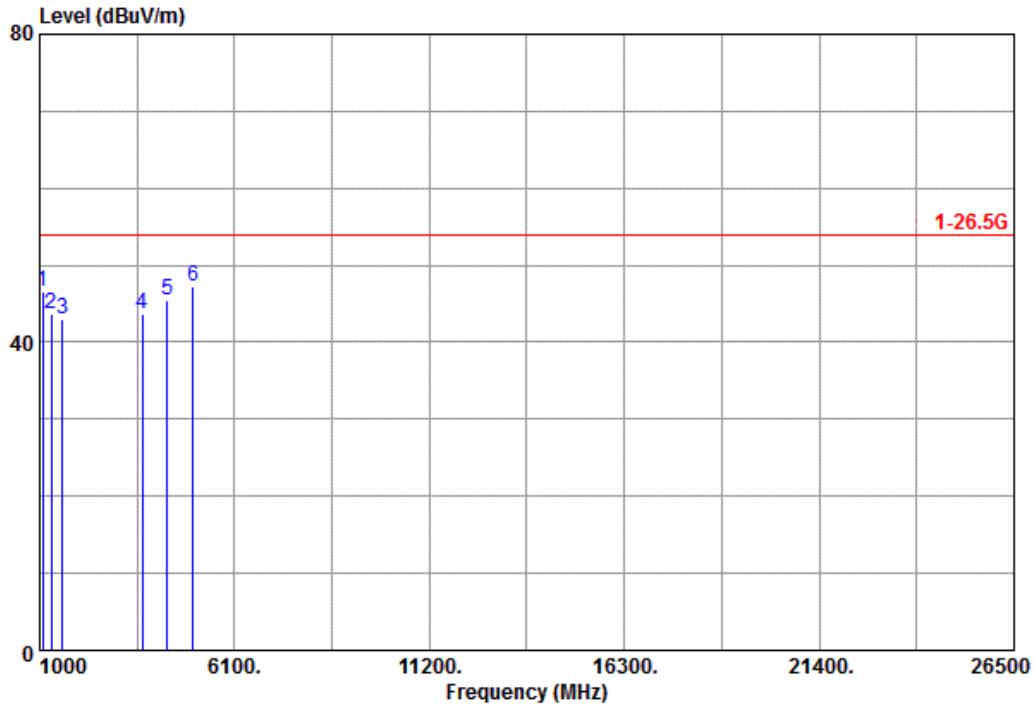
Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:

Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)

| | | | |
|--------------|---------------|-----------|-------------------|
| Temperature | : 26.4°C | Humidity | : 35% |
| Test Date | : 08-Oct-2014 | Tested by | : Kidd Liao |
| Polarization | : Vertical | Channel | : CH11 (2462 MHz) |
| Test Mode | : Mode 6 | | |



| Freq | Reading | C.F | Result | Limit | Margin | A/pos | T/pos | Remark |
|-------------|---------|--------|--------|--------|--------|-------|-------|--------|
| MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | | |
| 1 1076.500 | 59.56 | -13.01 | 46.55 | 54.00 | -7.45 | --- | --- | |
| 2 1306.000 | 55.66 | -11.93 | 43.73 | 54.00 | -10.27 | --- | --- | |
| 3 1586.500 | 53.80 | -10.70 | 43.10 | 54.00 | -10.90 | --- | --- | |
| 4 3677.500 | 47.59 | -3.87 | 43.72 | 54.00 | -10.28 | --- | --- | |
| 5 4340.500 | 46.98 | -1.53 | 45.45 | 54.00 | -8.55 | --- | --- | |
| 6 05003.500 | 45.82 | 1.34 | 47.16 | 54.00 | -6.84 | --- | --- | |

C.F = Antenna Factor + Cable Loss - Preamp gain
Result = Reading + C.F ; Margin = Result - Limit

@ : Maximum Data x : Over Limit

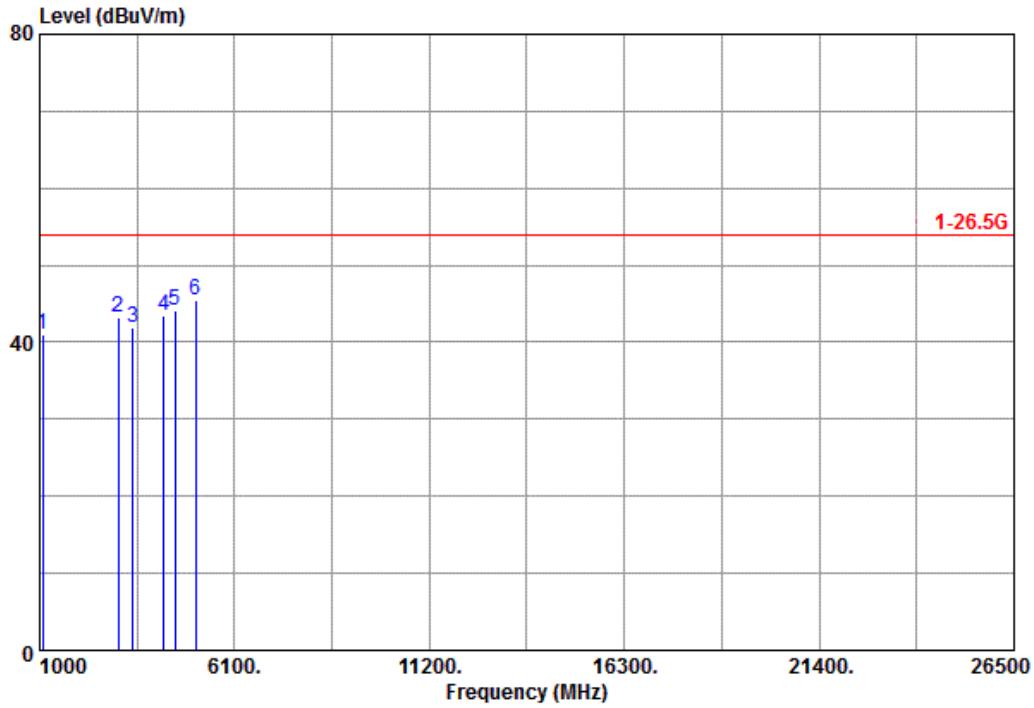
Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:

Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)

| | | | |
|--------------|---------------|-----------|-------------------|
| Temperature | : 26.4°C | Humidity | : 35% |
| Test Date | : 08-Oct-2014 | Tested by | : Kidd Liao |
| Polarization | : Horizontal | Channel | : CH11 (2462 MHz) |
| Test Mode | : Mode 6 | | |



| Freq | Reading | C.F | Result | Limit | Margin | A/pos | T/pos | Remark |
|-------------|---------|--------|--------|--------|--------|-------|-------|--------|
| MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | | |
| 1 1076.500 | 53.95 | -13.01 | 40.94 | 54.00 | -13.06 | --- | --- | |
| 2 3065.500 | 48.91 | -5.64 | 43.27 | 54.00 | -10.73 | --- | --- | |
| 3 3448.000 | 46.48 | -4.56 | 41.92 | 54.00 | -12.08 | --- | --- | |
| 4 4238.500 | 45.36 | -1.97 | 43.39 | 54.00 | -10.61 | --- | --- | |
| 5 4544.500 | 44.69 | -0.66 | 44.03 | 54.00 | -9.97 | --- | --- | |
| 6 05080.000 | 43.99 | 1.52 | 45.51 | 54.00 | -8.49 | --- | --- | |

C.F = Antenna Factor + Cable Loss - Preamp gain
Result = Reading + C.F ; Margin = Result - Limit

@ : Maximum Data x : Over Limit

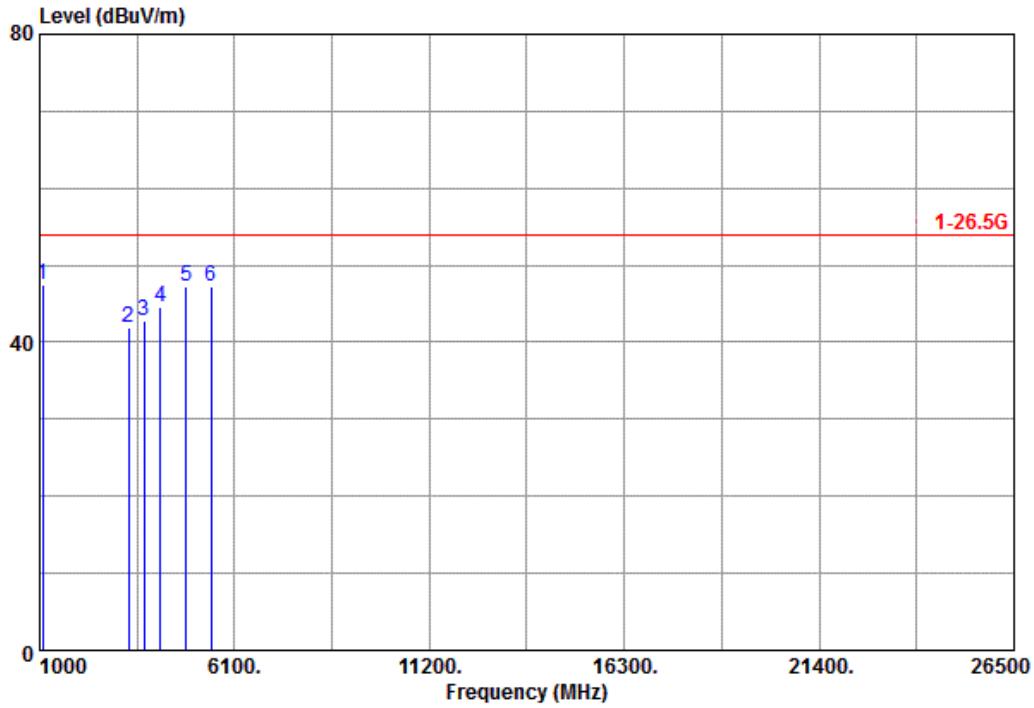
Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:

Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)

| | | | |
|--------------|---------------|-----------|-------------------|
| Temperature | : 26.4°C | Humidity | : 35% |
| Test Date | : 08-Oct-2014 | Tested by | : Kidd Liao |
| Polarization | : Vertical | Channel | : CH01 (2412 MHz) |
| Test Mode | : Mode 7 | | |



| Freq | Reading | C.F | Result | Limit | Margin | A/pos | T/pos | Remark |
|-------------|---------|--------|--------|--------|--------|-------|-------|--------|
| MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | | |
| 1 01076.500 | 60.54 | -13.01 | 47.53 | 54.00 | -6.47 | --- | --- | |
| 2 3320.500 | 46.80 | -4.96 | 41.84 | 54.00 | -12.16 | --- | --- | |
| 3 3728.500 | 46.57 | -3.77 | 42.80 | 54.00 | -11.20 | --- | --- | |
| 4 4162.000 | 46.81 | -2.26 | 44.55 | 54.00 | -9.45 | --- | --- | |
| 5 4825.000 | 46.60 | 0.57 | 47.17 | 54.00 | -6.83 | --- | --- | |
| 6 5488.000 | 44.79 | 2.56 | 47.35 | 54.00 | -6.65 | --- | --- | |

C.F = Antenna Factor + Cable Loss - Preamp gain
Result = Reading + C.F ; Margin = Result - Limit

@ : Maximum Data x : Over Limit

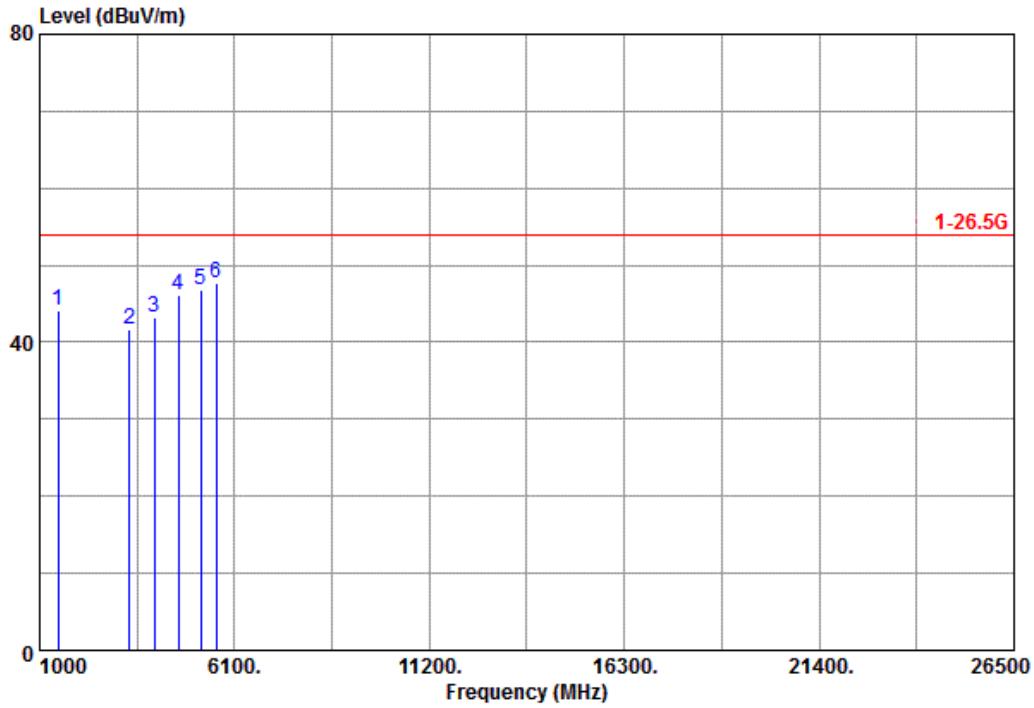
Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:

Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)

| | | | |
|--------------|---------------|-----------|-------------------|
| Temperature | : 26.4°C | Humidity | : 35% |
| Test Date | : 08-Oct-2014 | Tested by | : Kidd Liao |
| Polarization | : Horizontal | Channel | : CH01 (2412 MHz) |
| Test Mode | : Mode 7 | | |



| Freq | Reading | C.F | Result | Limit | Margin | A/pos | T/pos | Remark |
|-------------|---------|--------|--------|--------|--------|-------|-------|--------|
| MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | | |
| 1 1484.500 | 55.24 | -11.17 | 44.07 | 54.00 | -9.93 | --- | --- | |
| 2 3346.000 | 46.51 | -4.85 | 41.66 | 54.00 | -12.34 | --- | --- | |
| 3 4009.000 | 46.05 | -2.91 | 43.14 | 54.00 | -10.86 | --- | --- | |
| 4 4621.000 | 46.40 | -0.30 | 46.10 | 54.00 | -7.90 | --- | --- | |
| 5 5207.500 | 44.91 | 1.86 | 46.77 | 54.00 | -7.23 | --- | --- | |
| 6 @5615.500 | 44.86 | 2.90 | 47.76 | 54.00 | -6.24 | --- | --- | |

C.F = Antenna Factor + Cable Loss - Preamp gain
Result = Reading + C.F ; Margin = Result - Limit

@ : Maximum Data x : Over Limit

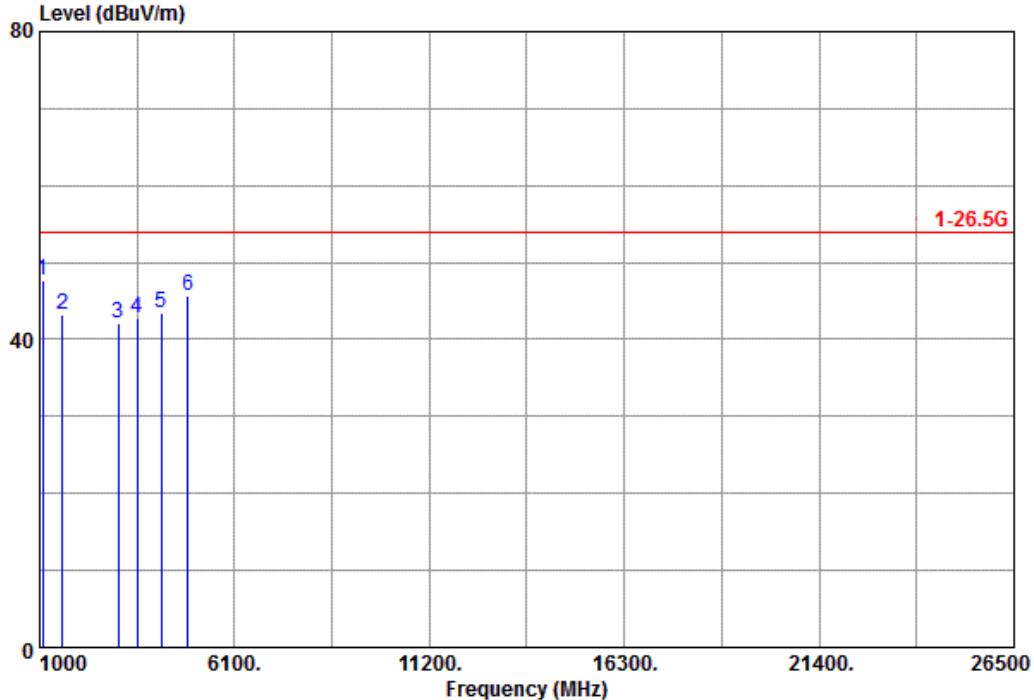
Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:

Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)

| | | | |
|--------------|---------------|-----------|-------------------|
| Temperature | : 26.4°C | Humidity | : 35% |
| Test Date | : 08-Oct-2014 | Tested by | : Kidd Liao |
| Polarization | : Vertical | Channel | : CH06 (2437 MHz) |
| Test Mode | : Mode 8 | | |



| Freq | Reading | C.F | Result | Limit | Margin | A/pos | T/pos | Remark |
|-------------|---------|--------|--------|--------|--------|-------|-------|--------|
| MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | | |
| 1 @1076.500 | 60.61 | -13.01 | 47.60 | 54.00 | -6.40 | --- | --- | |
| 2 1586.500 | 54.02 | -10.70 | 43.32 | 54.00 | -10.68 | --- | --- | |
| 3 3065.500 | 47.67 | -5.64 | 42.03 | 54.00 | -11.97 | --- | --- | |
| 4 3550.000 | 47.11 | -4.27 | 42.84 | 54.00 | -11.16 | --- | --- | |
| 5 4187.500 | 45.49 | -2.12 | 43.37 | 54.00 | -10.63 | --- | --- | |
| 6 4876.000 | 44.93 | 0.80 | 45.73 | 54.00 | -8.27 | --- | --- | |

C.F = Antenna Factor + Cable Loss - Preamp gain
Result = Reading + C.F ; Margin = Result - Limit

@ : Maximum Data x : Over Limit

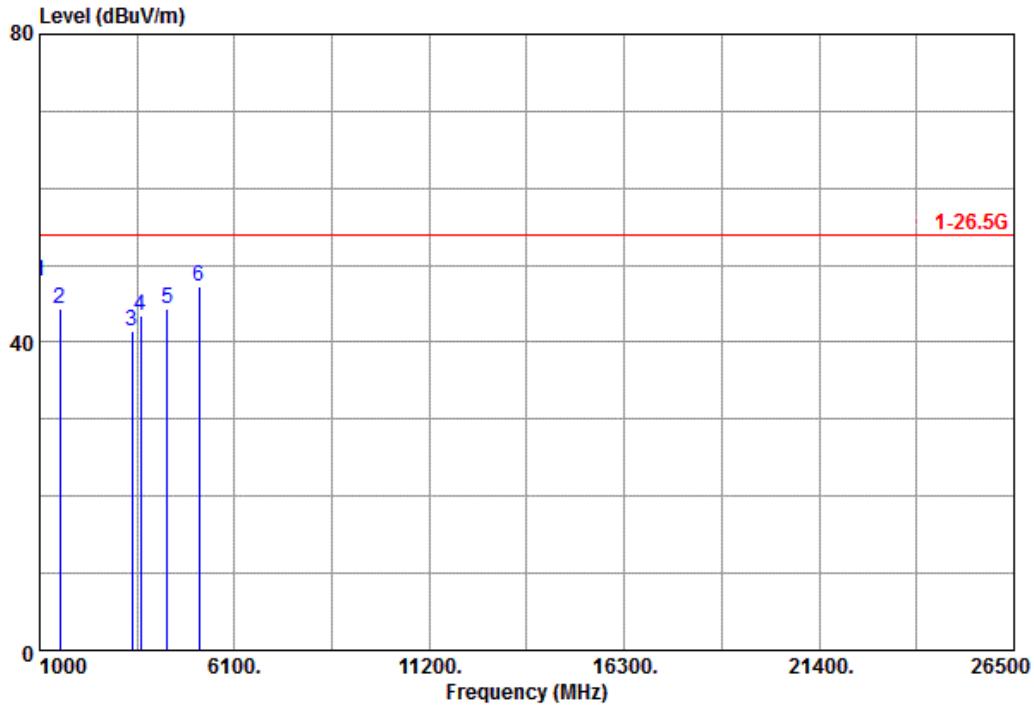
Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:

Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)

| | | | |
|--------------|---------------|-----------|-------------------|
| Temperature | : 26.4°C | Humidity | : 35% |
| Test Date | : 08-Oct-2014 | Tested by | : Kidd Liao |
| Polarization | : Horizontal | Channel | : CH06 (2437 MHz) |
| Test Mode | : Mode 8 | | |



| Freq | Reading | C.F | Result | Limit | Margin | A/pos | T/pos | Remark |
|-------------|---------|--------|--------|--------|--------|-------|-------|--------|
| MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | | |
| 1 @1000.000 | 61.16 | -13.32 | 47.84 | 54.00 | -6.16 | --- | --- | |
| 2 1535.500 | 55.13 | -10.86 | 44.27 | 54.00 | -9.73 | --- | --- | |
| 3 3422.500 | 46.19 | -4.66 | 41.53 | 54.00 | -12.47 | --- | --- | |
| 4 3652.000 | 47.40 | -3.97 | 43.43 | 54.00 | -10.57 | --- | --- | |
| 5 4340.500 | 45.89 | -1.53 | 44.36 | 54.00 | -9.64 | --- | --- | |
| 6 5182.000 | 45.38 | 1.78 | 47.16 | 54.00 | -6.84 | --- | --- | |

C.F = Antenna Factor + Cable Loss - Preamp gain
Result = Reading + C.F ; Margin = Result - Limit

@ : Maximum Data x : Over Limit

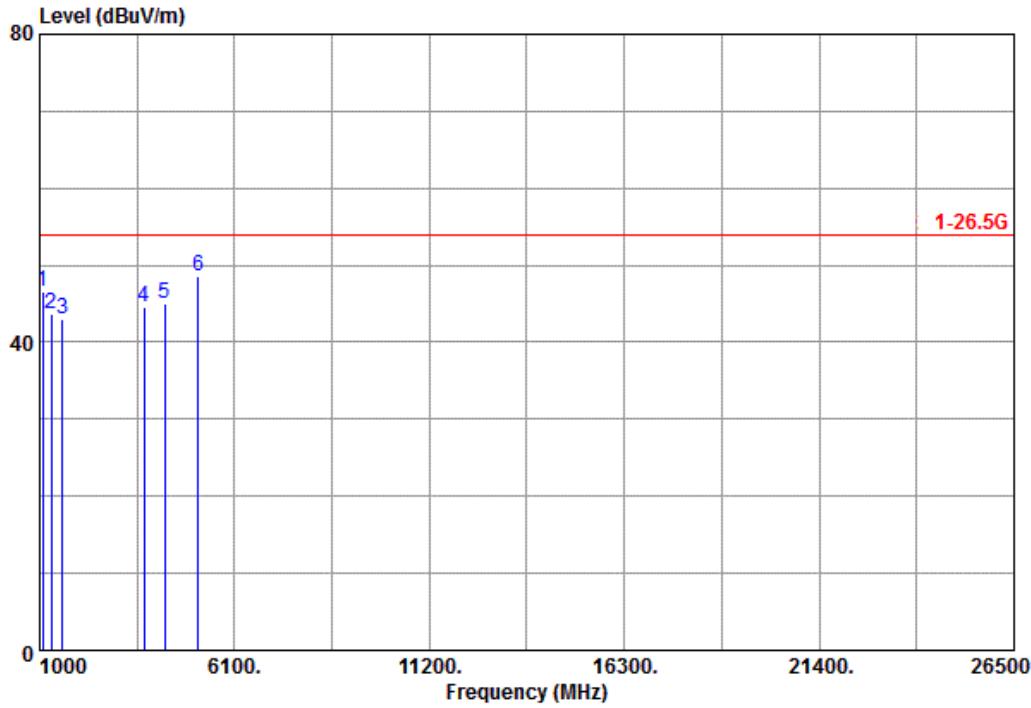
Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:

Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)

| | | | |
|--------------|---------------|-----------|-------------------|
| Temperature | : 26.4°C | Humidity | : 35% |
| Test Date | : 08-Oct-2014 | Tested by | : Kidd Liao |
| Polarization | : Vertical | Channel | : CH11 (2462 MHz) |
| Test Mode | : Mode 9 | | |



| Freq | Reading | C.F | Result | Limit | Margin | A/pos | T/pos | Remark |
|-------------|---------|--------|--------|--------|--------|-------|-------|--------|
| MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | | |
| 1 1076.500 | 59.56 | -13.01 | 46.55 | 54.00 | -7.45 | --- | --- | |
| 2 1306.000 | 55.66 | -11.93 | 43.73 | 54.00 | -10.27 | --- | --- | |
| 3 1586.500 | 53.80 | -10.70 | 43.10 | 54.00 | -10.90 | --- | --- | |
| 4 3728.500 | 48.32 | -3.77 | 44.55 | 54.00 | -9.45 | --- | --- | |
| 5 4264.000 | 46.78 | -1.83 | 44.95 | 54.00 | -9.05 | --- | --- | |
| 6 05156.500 | 46.79 | 1.69 | 48.48 | 54.00 | -5.52 | --- | --- | |

C.F = Antenna Factor + Cable Loss - Preamp gain
Result = Reading + C.F ; Margin = Result - Limit

@ : Maximum Data x : Over Limit

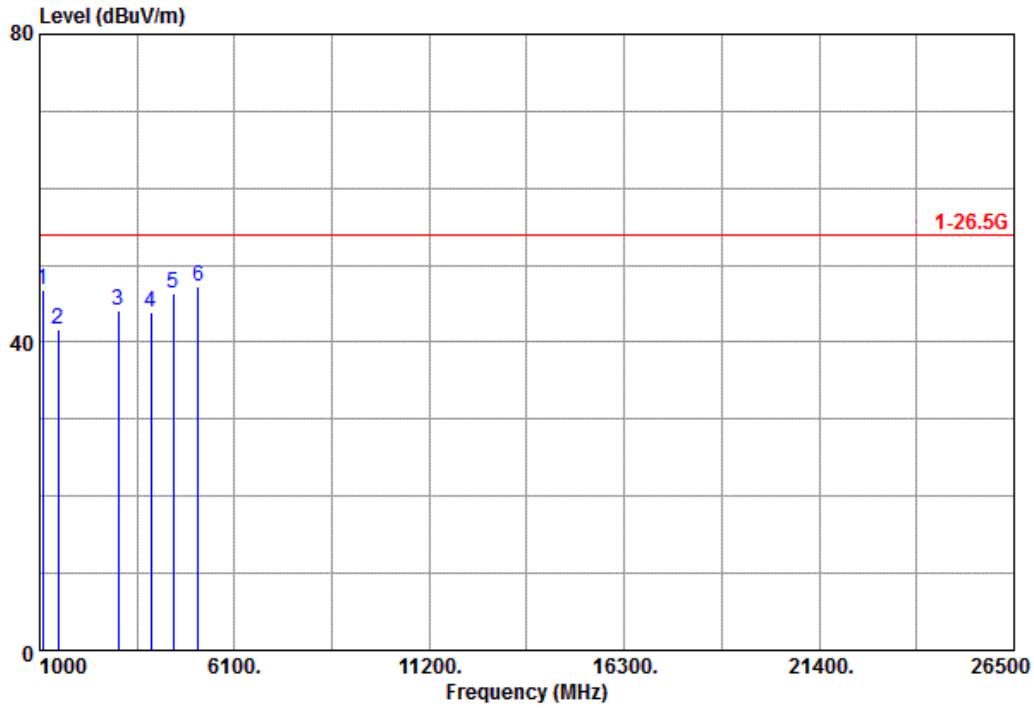
Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:

Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)

| | | | |
|--------------|---------------|-----------|-------------------|
| Temperature | : 26.4°C | Humidity | : 35% |
| Test Date | : 08-Oct-2014 | Tested by | : Kidd Liao |
| Polarization | : Horizontal | Channel | : CH11 (2462 MHz) |
| Test Mode | : Mode 9 | | |



| Freq | Reading | C.F | Result | Limit | Margin | A/pos | T/pos | Remark |
|-------------|---------|--------|--------|--------|--------|-------|-------|--------|
| MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | | |
| 1 1076.500 | 59.84 | -13.01 | 46.83 | 54.00 | -7.17 | --- | --- | |
| 2 1484.500 | 52.93 | -11.17 | 41.76 | 54.00 | -12.24 | --- | --- | |
| 3 3065.500 | 49.82 | -5.64 | 44.18 | 54.00 | -9.82 | --- | --- | |
| 4 3907.000 | 47.16 | -3.23 | 43.93 | 54.00 | -10.07 | --- | --- | |
| 5 4493.500 | 47.17 | -0.81 | 46.36 | 54.00 | -7.64 | --- | --- | |
| 6 @5156.500 | 45.63 | 1.69 | 47.32 | 54.00 | -6.68 | --- | --- | |

C.F = Antenna Factor + Cable Loss - Preamp gain
Result = Reading + C.F ; Margin = Result - Limit

@ : Maximum Data x : Over Limit

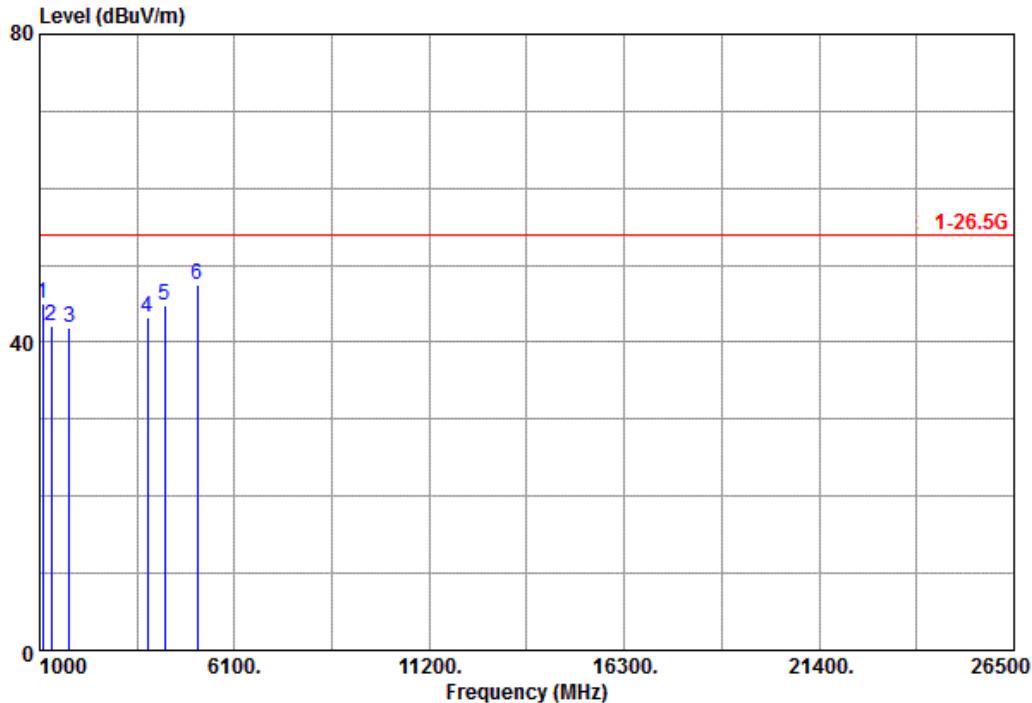
Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:

Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)

| | | | |
|--------------|---------------|-----------|-------------------|
| Temperature | : 26.4°C | Humidity | : 35% |
| Test Date | : 08-Oct-2014 | Tested by | : Kidd Liao |
| Polarization | : Vertical | Channel | : CH03 (2422 MHz) |
| Test Mode | : Mode 10 | | |



| Freq | Reading | C.F | Result | Limit | Margin | A/pos | T/pos | Remark |
|------------|---------|--------|--------|--------|--------|-------|-------|--------|
| MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | | |
| 1 1076.500 | 58.10 | -13.01 | 45.09 | 54.00 | -8.91 | --- | --- | |
| 2 1306.000 | 54.00 | -11.93 | 42.07 | 54.00 | -11.93 | --- | --- | |
| 3 1765.000 | 51.66 | -9.85 | 41.81 | 54.00 | -12.19 | --- | --- | |
| 4 3830.500 | 46.61 | -3.48 | 43.13 | 54.00 | -10.87 | --- | --- | |
| 5 4264.000 | 46.62 | -1.83 | 44.79 | 54.00 | -9.21 | --- | --- | |
| 6 5131.000 | 45.71 | 1.65 | 47.36 | 54.00 | -6.64 | --- | --- | |

C.F = Antenna Factor + Cable Loss - Preamp gain
Result = Reading + C.F ; Margin = Result - Limit

@ : Maximum Data x : Over Limit

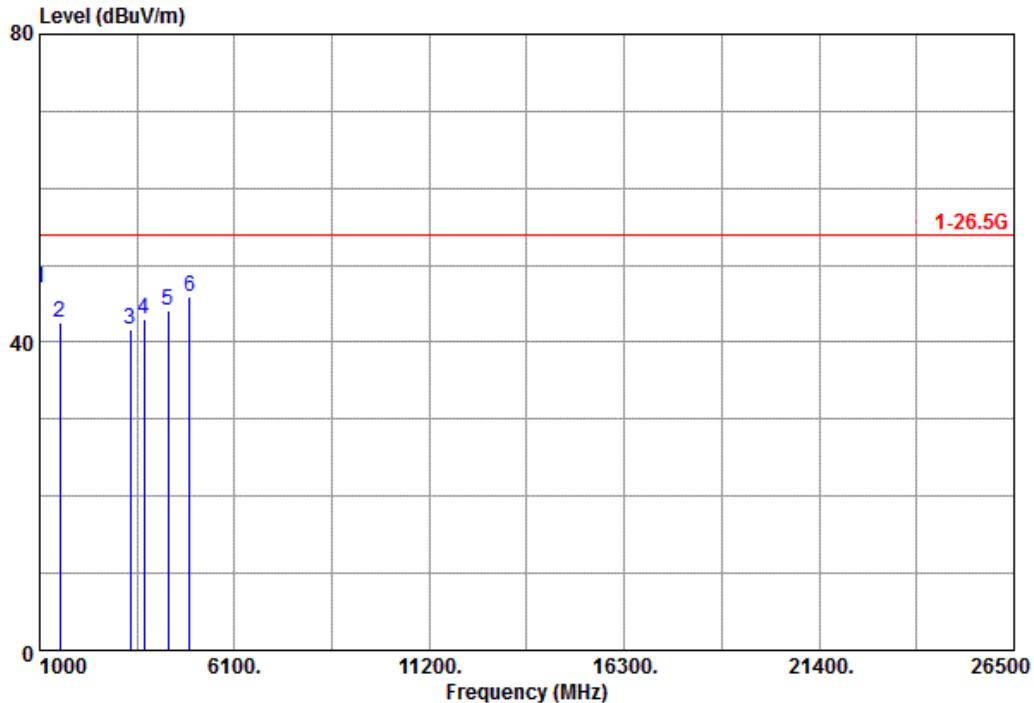
Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:

Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)

| | | | |
|--------------|---------------|-----------|-------------------|
| Temperature | : 26.4°C | Humidity | : 35% |
| Test Date | : 08-Oct-2014 | Tested by | : Kidd Liao |
| Polarization | : Horizontal | Channel | : CH03 (2422 MHz) |
| Test Mode | : Mode 10 | | |



| Freq | Reading | C.F | Result | Limit | Margin | A/pos | T/pos | Remark |
|-------------|---------|--------|--------|--------|--------|-------|-------|--------|
| MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | | |
| 1 01000.000 | 60.36 | -13.32 | 47.04 | 54.00 | -6.96 | --- | --- | |
| 2 1535.500 | 53.50 | -10.86 | 42.64 | 54.00 | -11.36 | --- | --- | |
| 3 3371.500 | 46.34 | -4.76 | 41.58 | 54.00 | -12.42 | --- | --- | |
| 4 3728.500 | 46.78 | -3.77 | 43.01 | 54.00 | -10.99 | --- | --- | |
| 5 4366.000 | 45.56 | -1.39 | 44.17 | 54.00 | -9.83 | --- | --- | |
| 6 4927.000 | 44.79 | 1.01 | 45.80 | 54.00 | -8.20 | --- | --- | |

C.F = Antenna Factor + Cable Loss - Preamp gain
Result = Reading + C.F ; Margin = Result - Limit

@ : Maximum Data x : Over Limit

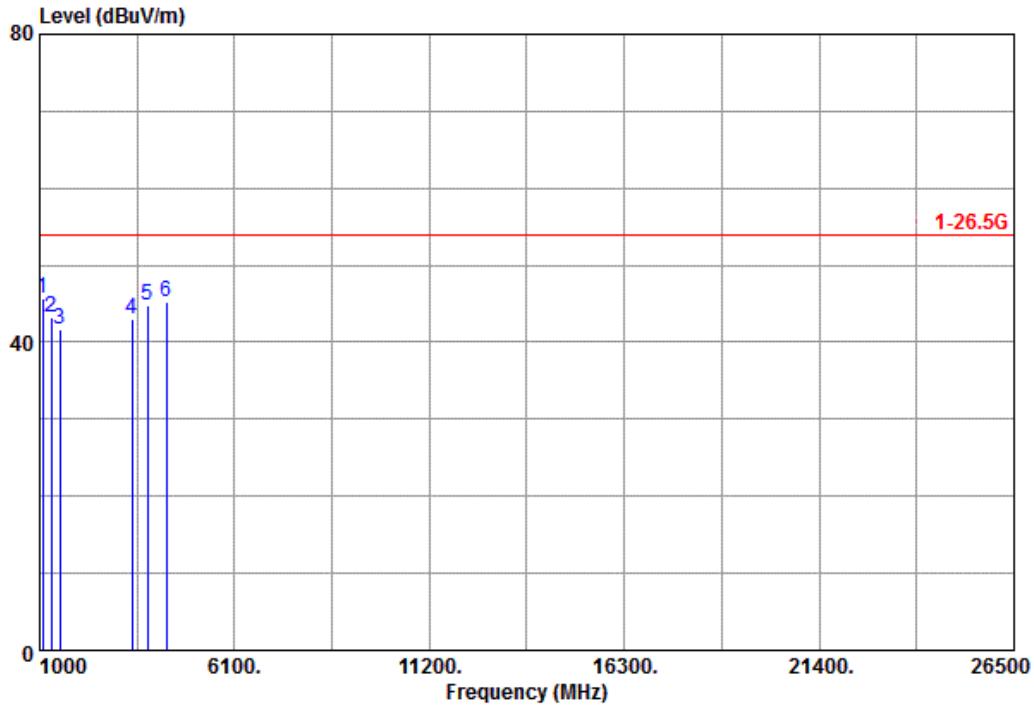
Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:

Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)

| | | | |
|--------------|---------------|-----------|-------------------|
| Temperature | : 26.4°C | Humidity | : 35% |
| Test Date | : 08-Oct-2014 | Tested by | : Kidd Liao |
| Polarization | : Vertical | Channel | : CH06 (2437 MHz) |
| Test Mode | : Mode 11 | | |



| Freq | Reading | C.F | Result | Limit | Margin | A/pos | T/pos | Remark |
|-------------|---------|--------|--------|--------|--------|-------|-------|--------|
| MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | | |
| 1 01076.500 | 58.69 | -13.01 | 45.68 | 54.00 | -8.32 | --- | --- | |
| 2 1306.000 | 55.20 | -11.93 | 43.27 | 54.00 | -10.73 | --- | --- | |
| 3 1535.500 | 52.43 | -10.86 | 41.57 | 54.00 | -12.43 | --- | --- | |
| 4 3422.500 | 47.59 | -4.66 | 42.93 | 54.00 | -11.07 | --- | --- | |
| 5 3830.500 | 48.30 | -3.48 | 44.82 | 54.00 | -9.18 | --- | --- | |
| 6 4315.000 | 46.77 | -1.61 | 45.16 | 54.00 | -8.84 | --- | --- | |

C.F = Antenna Factor + Cable Loss - Preamp gain
Result = Reading + C.F ; Margin = Result - Limit

@ : Maximum Data x : Over Limit

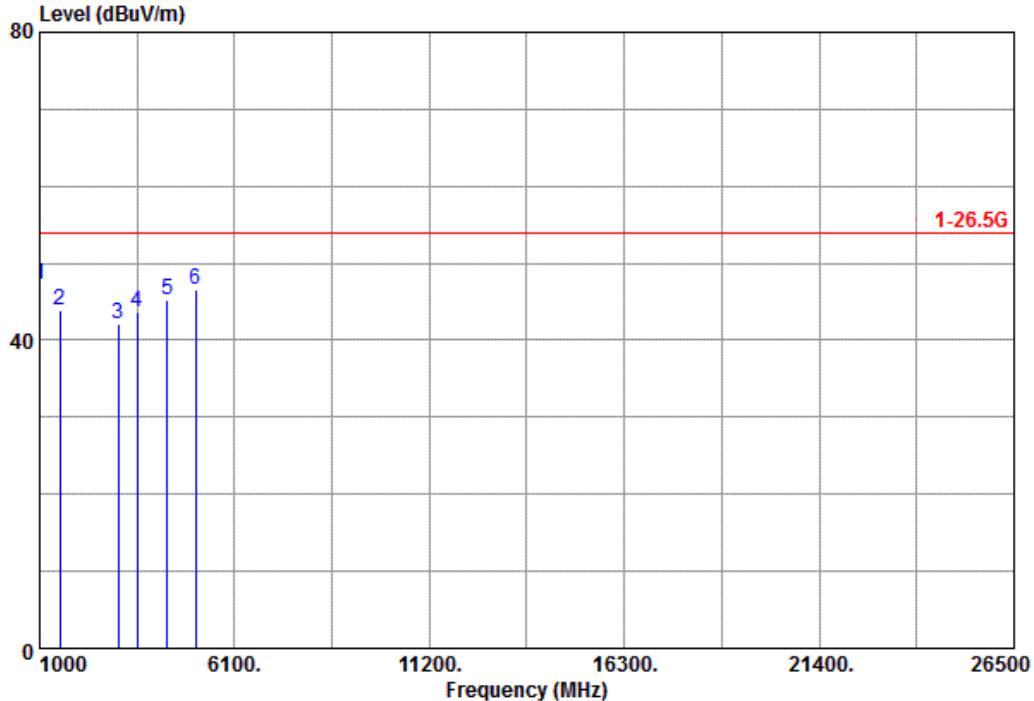
Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:

Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)

| | | | |
|--------------|---------------|-----------|-------------------|
| Temperature | : 26.4°C | Humidity | : 35% |
| Test Date | : 08-Oct-2014 | Tested by | : Kidd Liao |
| Polarization | : Horizontal | Channel | : CH06 (2437 MHz) |
| Test Mode | : Mode 11 | | |



| Freq | Reading | C.F | Result | Limit | Margin | A/pos | T/pos | Remark |
|-------------|---------|--------|--------|--------|--------|-------|-------|--------|
| MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | | |
| 1 01000.000 | 60.49 | -13.32 | 47.17 | 54.00 | -6.83 | --- | --- | |
| 2 1535.500 | 54.74 | -10.86 | 43.88 | 54.00 | -10.12 | --- | --- | |
| 3 3065.500 | 47.86 | -5.64 | 42.22 | 54.00 | -11.78 | --- | --- | |
| 4 3550.000 | 47.97 | -4.27 | 43.70 | 54.00 | -10.30 | --- | --- | |
| 5 4340.500 | 46.75 | -1.53 | 45.22 | 54.00 | -8.78 | --- | --- | |
| 6 5080.000 | 45.09 | 1.52 | 46.61 | 54.00 | -7.39 | --- | --- | |

C.F = Antenna Factor + Cable Loss - Preamp gain
Result = Reading + C.F ; Margin = Result - Limit

@ : Maximum Data x : Over Limit

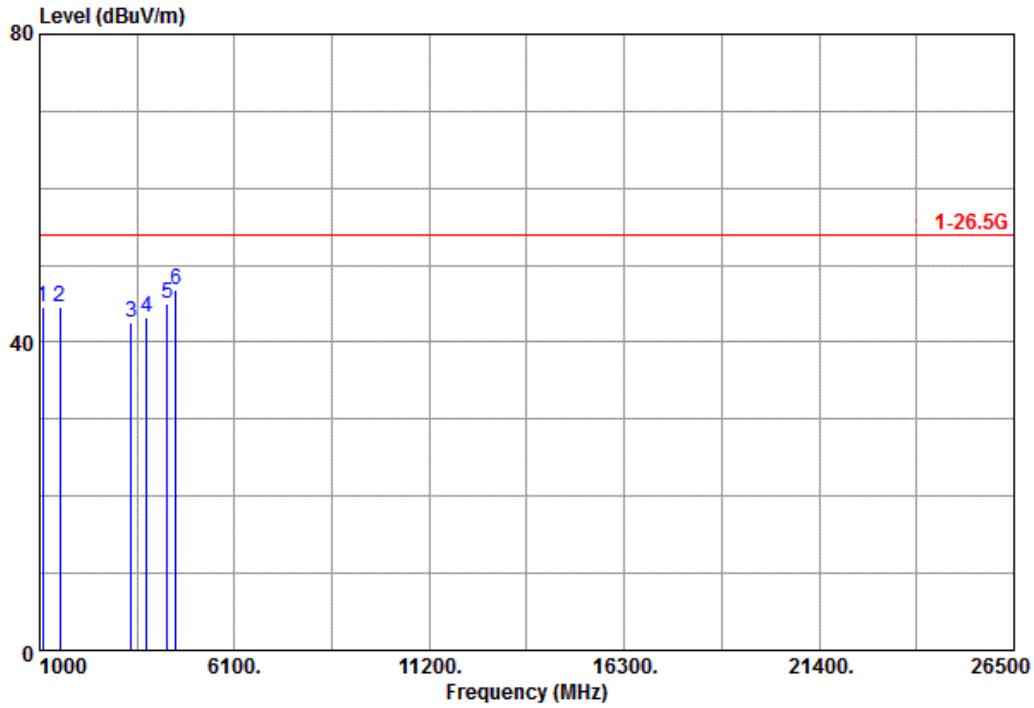
Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:

Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)

| | | | |
|--------------|---------------|-----------|-------------------|
| Temperature | : 26.4°C | Humidity | : 35% |
| Test Date | : 08-Oct-2014 | Tested by | : Kidd Liao |
| Polarization | : Vertical | Channel | : CH09 (2452 MHz) |
| Test Mode | : Mode 12 | | |



| Freq | Reading | C.F | Result | Limit | Margin | A/pos | T/pos | Remark |
|------------|---------|--------|--------|--------|--------|-------|-------|--------|
| MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | | |
| 1 1076.500 | 57.69 | -13.01 | 44.68 | 54.00 | -9.32 | --- | --- | |
| 2 1535.500 | 55.39 | -10.86 | 44.53 | 54.00 | -9.47 | --- | --- | |
| 3 3397.000 | 47.30 | -4.70 | 42.60 | 54.00 | -11.40 | --- | --- | |
| 4 3805.000 | 46.80 | -3.52 | 43.28 | 54.00 | -10.72 | --- | --- | |
| 5 4340.500 | 46.51 | -1.53 | 44.98 | 54.00 | -9.02 | --- | --- | |
| 6 4570.000 | 47.28 | -0.51 | 46.77 | 54.00 | -7.23 | --- | --- | |

C.F = Antenna Factor + Cable Loss - Preamp gain
Result = Reading + C.F ; Margin = Result - Limit

@ : Maximum Data x : Over Limit

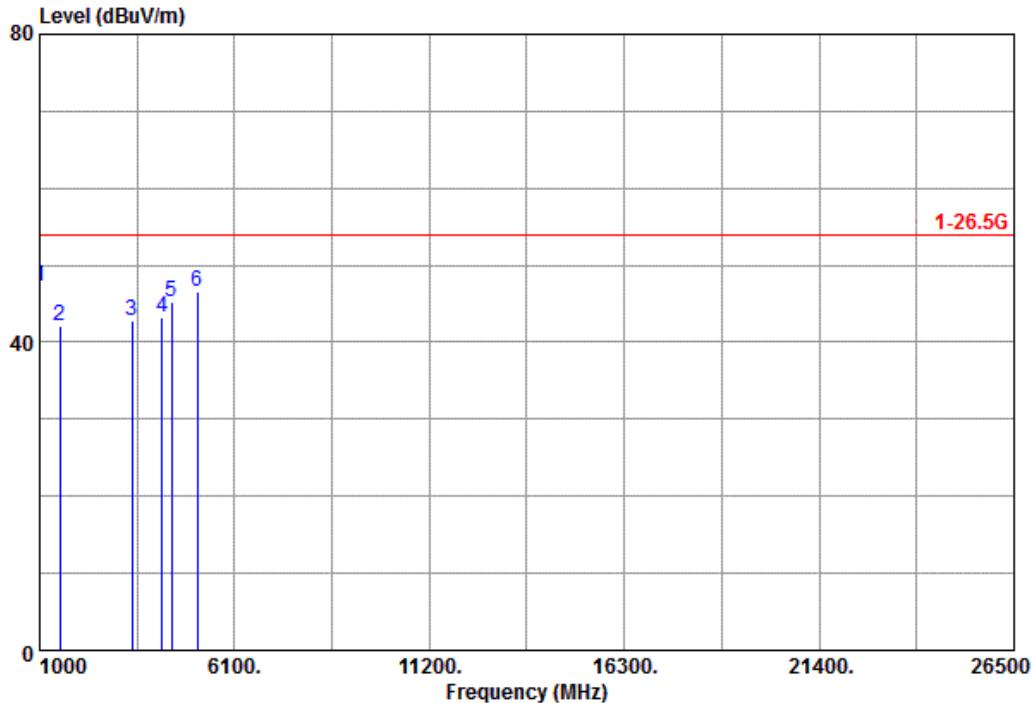
Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:

Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)

| | | | |
|--------------|---------------|-----------|-------------------|
| Temperature | : 26.4°C | Humidity | : 35% |
| Test Date | : 08-Oct-2014 | Tested by | : Kidd Liao |
| Polarization | : Horizontal | Channel | : CH09 (2452 MHz) |
| Test Mode | : Mode 12 | | |



| Freq | Reading | C.F | Result | Limit | Margin | A/pos | T/pos | Remark |
|-------------|---------|--------|--------|--------|--------|-------|-------|--------|
| MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | | |
| 1 @1000.000 | 60.62 | -13.32 | 47.30 | 54.00 | -6.70 | --- | --- | |
| 2 1535.500 | 52.92 | -10.86 | 42.06 | 54.00 | -11.94 | --- | --- | |
| 3 3422.500 | 47.44 | -4.66 | 42.78 | 54.00 | -11.22 | --- | --- | |
| 4 4213.000 | 45.19 | -2.04 | 43.15 | 54.00 | -10.85 | --- | --- | |
| 5 4442.500 | 46.43 | -1.11 | 45.32 | 54.00 | -8.68 | --- | --- | |
| 6 5131.000 | 44.87 | 1.65 | 46.52 | 54.00 | -7.48 | --- | --- | |

C.F = Antenna Factor + Cable Loss - Preamp gain
Result = Reading + C.F ; Margin = Result - Limit

@ : Maximum Data x : Over Limit

Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:

Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

4 6 dB Bandwidth of the Emission

4.1 Test Instruments

Refer to Sec. 1.2 Test Instruments.

4.2 Test Arrangement



4.3 Test Procedure

1. Connect the EUT to spectrum analyzer through appropriate attenuator.
2. Spectrum setting; RMB = 100 kHz; VBW \geq 300 kHz. Detector = Peak. Sweep = Auto.
3. Trace = Max Hold.

4.4 Limit (§ 15.247(a)(2))

Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

4.5 Test Result

Compliance

The final test data are shown on the following page(s).



Temperature : 26.4°C
Test Date : 08-Oct-2014

Humidity : 35%
Tested by : Kidd Liao

Test Mode : 802.11 b

| Test Channel | Frequency (MHz) | Test Result (MHz) | Limit (MHz) |
|--------------|-----------------|-------------------|-------------|
| 01 | 2412 | 10.62 | ≥0.5 |
| 06 | 2437 | 10.62 | ≥0.5 |
| 11 | 2462 | 10.62 | ≥0.5 |

Test Mode : 802.11 g

| Test Channel | Frequency (MHz) | Test Result (MHz) | Limit (MHz) |
|--------------|-----------------|-------------------|-------------|
| 01 | 2412 | 13.8533 | ≥0.5 |
| 06 | 2437 | 14.1067 | ≥0.5 |
| 11 | 2462 | 14.0000 | ≥0.5 |

Test Mode : 802.11 n (20M)

| Test Channel | Frequency (MHz) | Test Result (MHz) | Limit (MHz) |
|--------------|-----------------|-------------------|-------------|
| 01 | 2412 | 14.5133 | ≥0.5 |
| 06 | 2437 | 14.5333 | ≥0.5 |
| 11 | 2462 | 14.4533 | ≥0.5 |

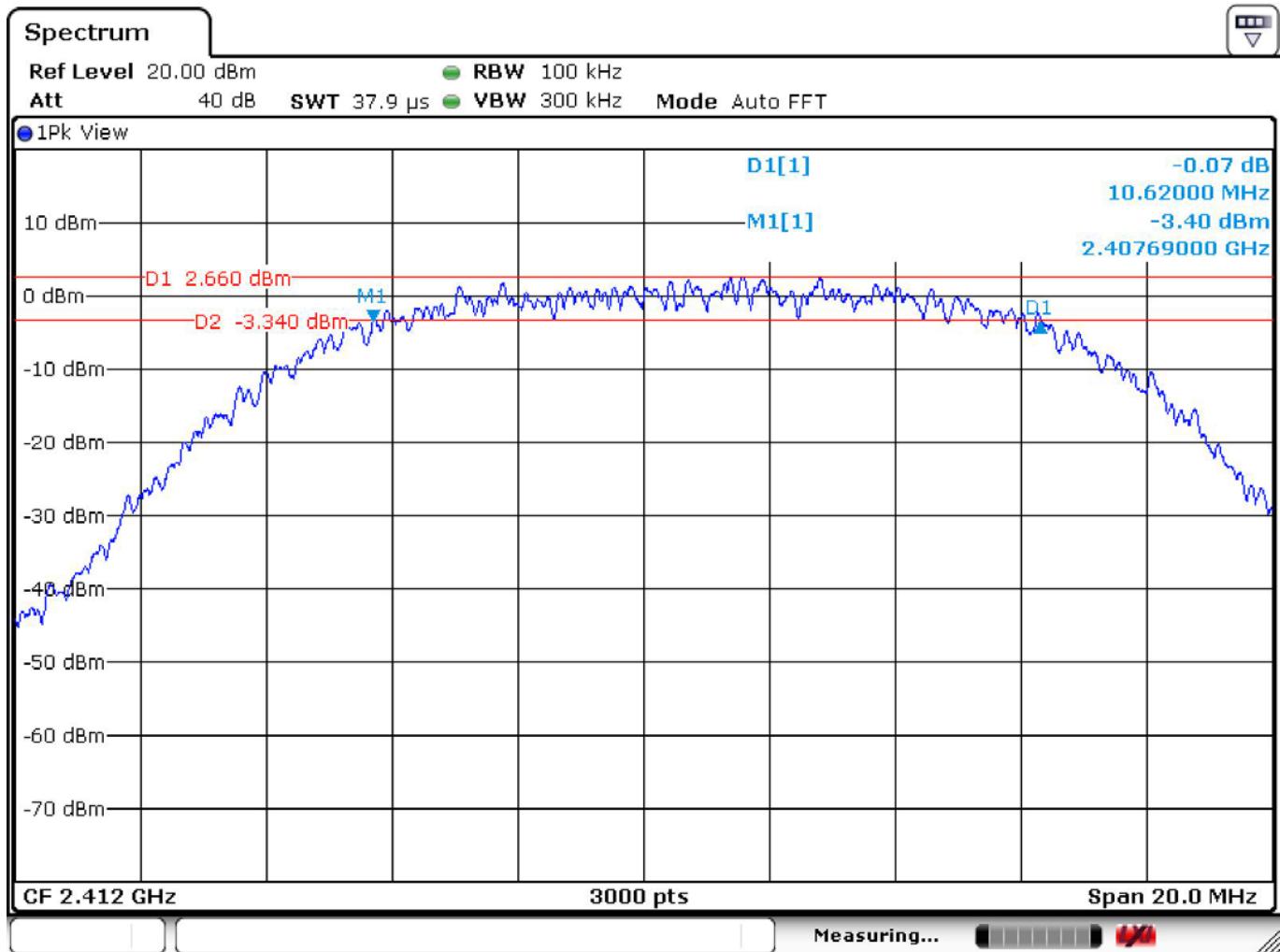
Test Mode : 802.11n (40M)

| Test Channel | Frequency (MHz) | Test Result (MHz) | Limit (MHz) |
|--------------|-----------------|-------------------|-------------|
| 03 | 2422 | 35.0130 | ≥0.5 |
| 06 | 2437 | 35.0130 | ≥0.5 |
| 09 | 2452 | 35.6930 | ≥0.5 |

The final test data are shown on the following page(s).

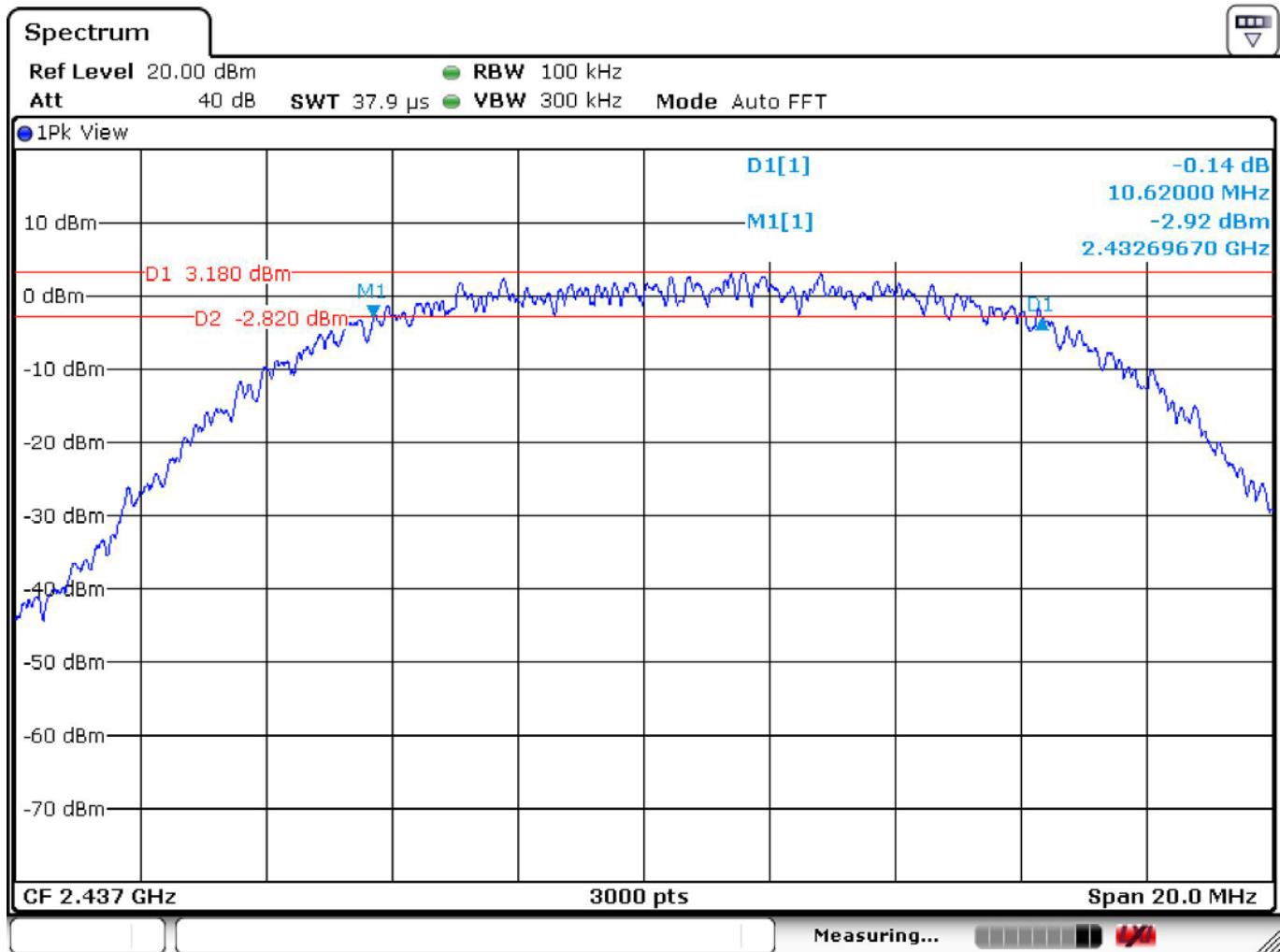


| | | | |
|-------------|---------------|-----------|------------------|
| Temperature | : 26.4°C | Humidity | : 35% |
| Test Date | : 08-Oct-2014 | Tested by | : Kidd Liao |
| Test Mode | : 802.11b | Channel | : CH01 (2412MHz) |



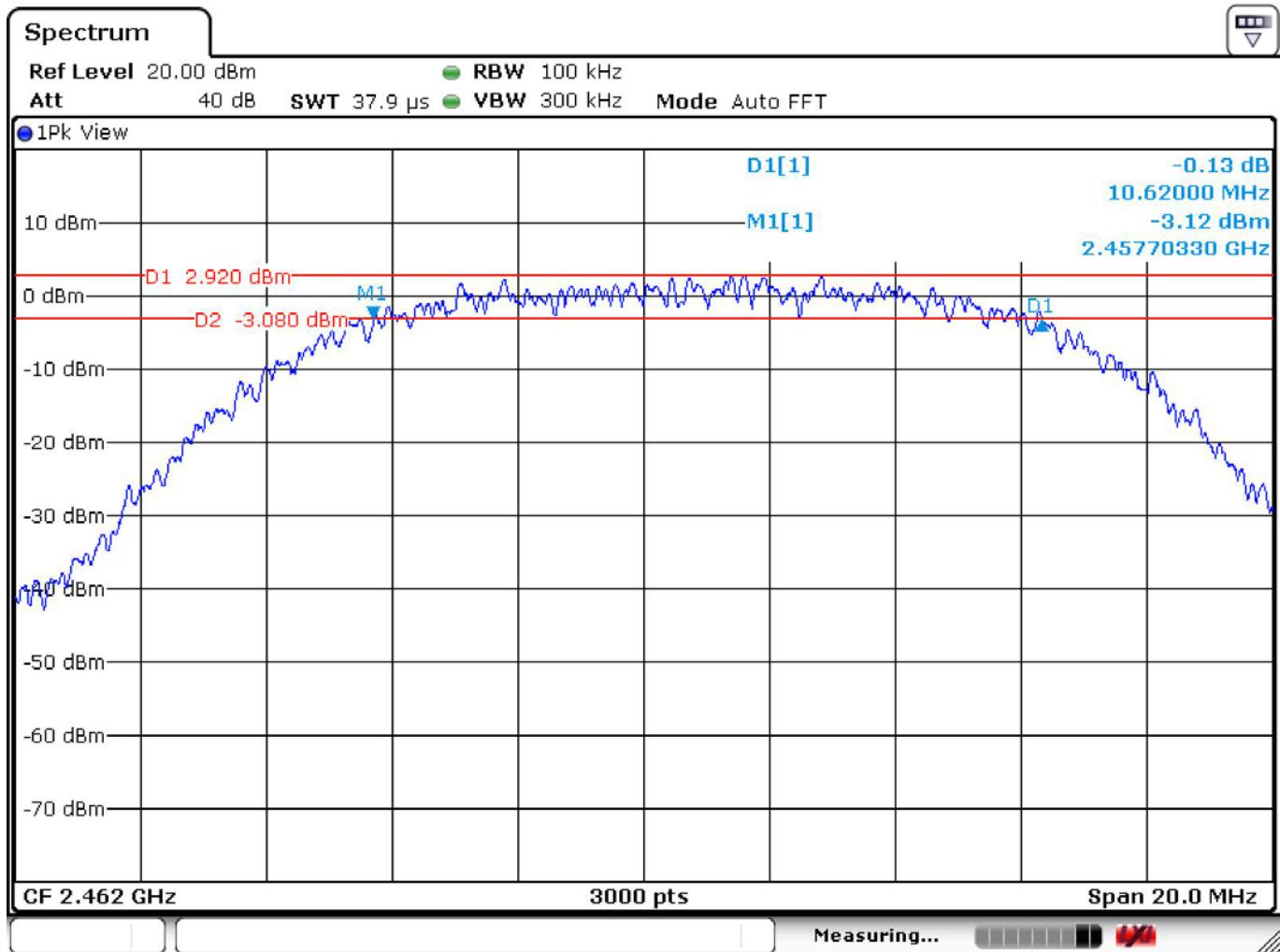


| | | | |
|-------------|---------------|-----------|------------------|
| Temperature | : 26.4°C | Humidity | : 35% |
| Test Date | : 08-Oct-2014 | Tested by | : Kidd Liao |
| Test Mode | : 802.11b | Channel | : CH06 (2437MHz) |



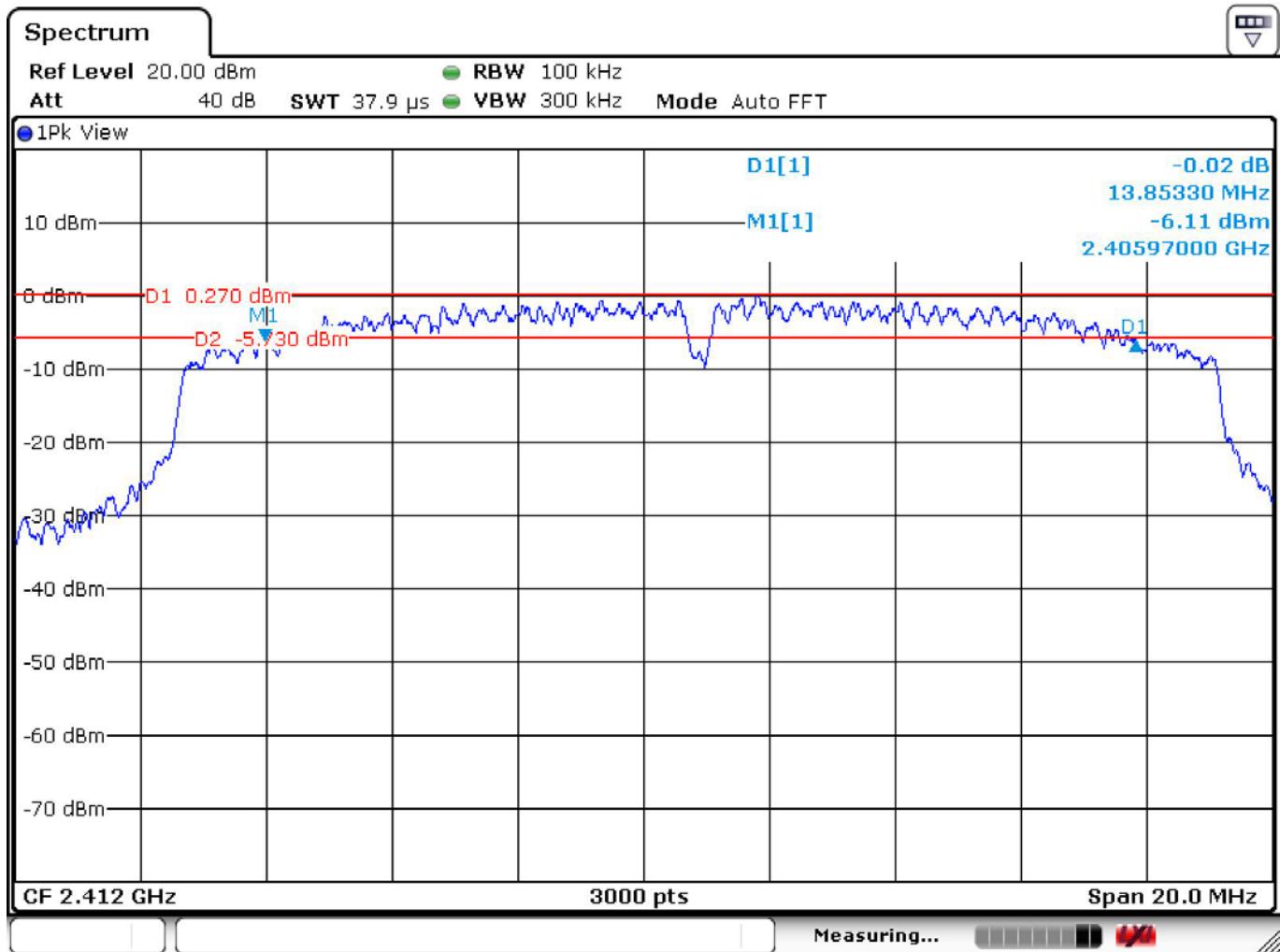


| | | | |
|-------------|---------------|-----------|------------------|
| Temperature | : 26.4°C | Humidity | : 35% |
| Test Date | : 08-Oct-2014 | Tested by | : Kidd Liao |
| Test Mode | : 802.11b | Channel | : CH11 (2462MHz) |



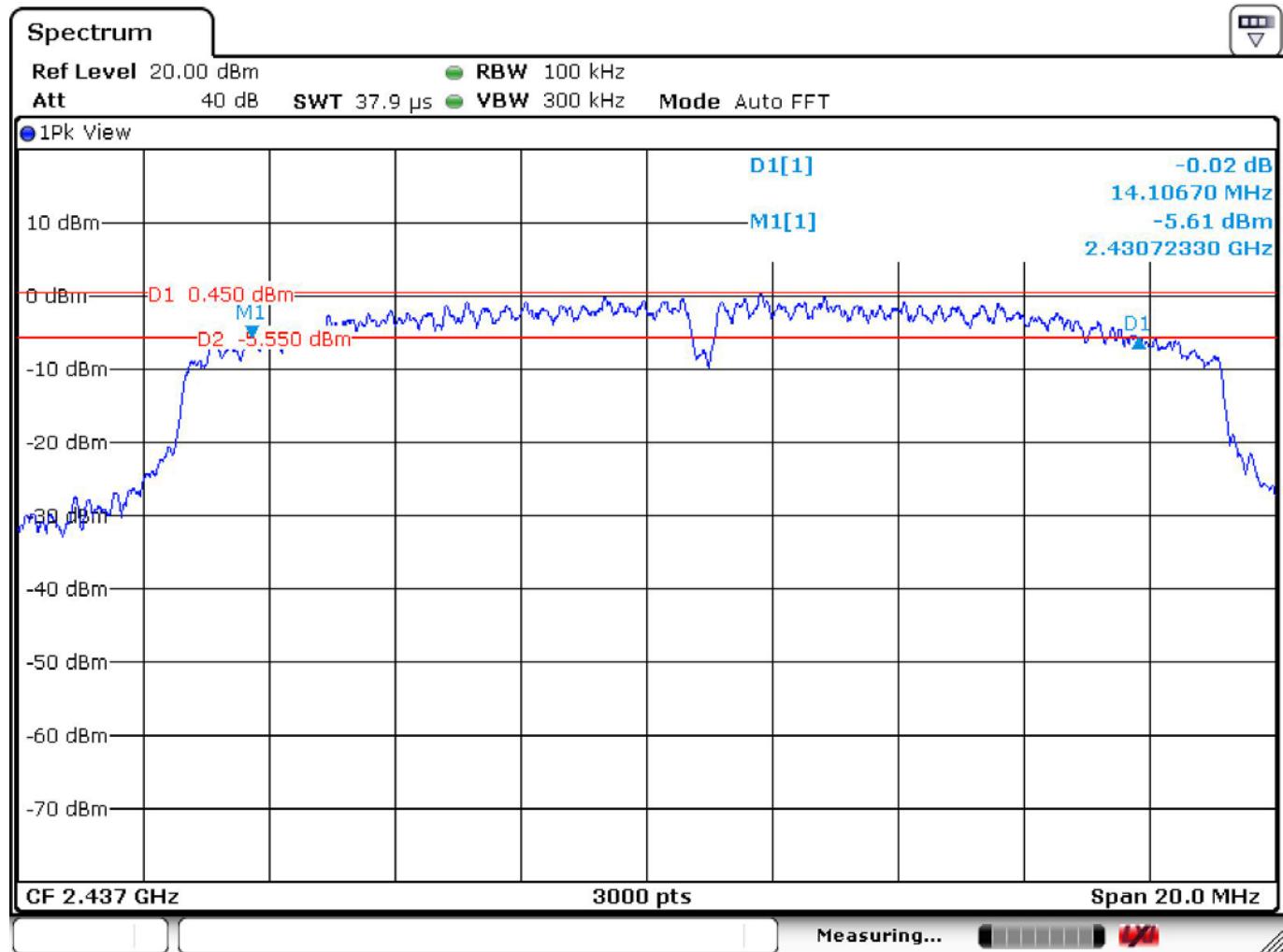


| | | | |
|-------------|---------------|-----------|------------------|
| Temperature | : 26.4°C | Humidity | : 35% |
| Test Date | : 08-Oct-2014 | Tested by | : Kidd Liao |
| Test Mode | : 802.11g | Channel | : CH01 (2412MHz) |



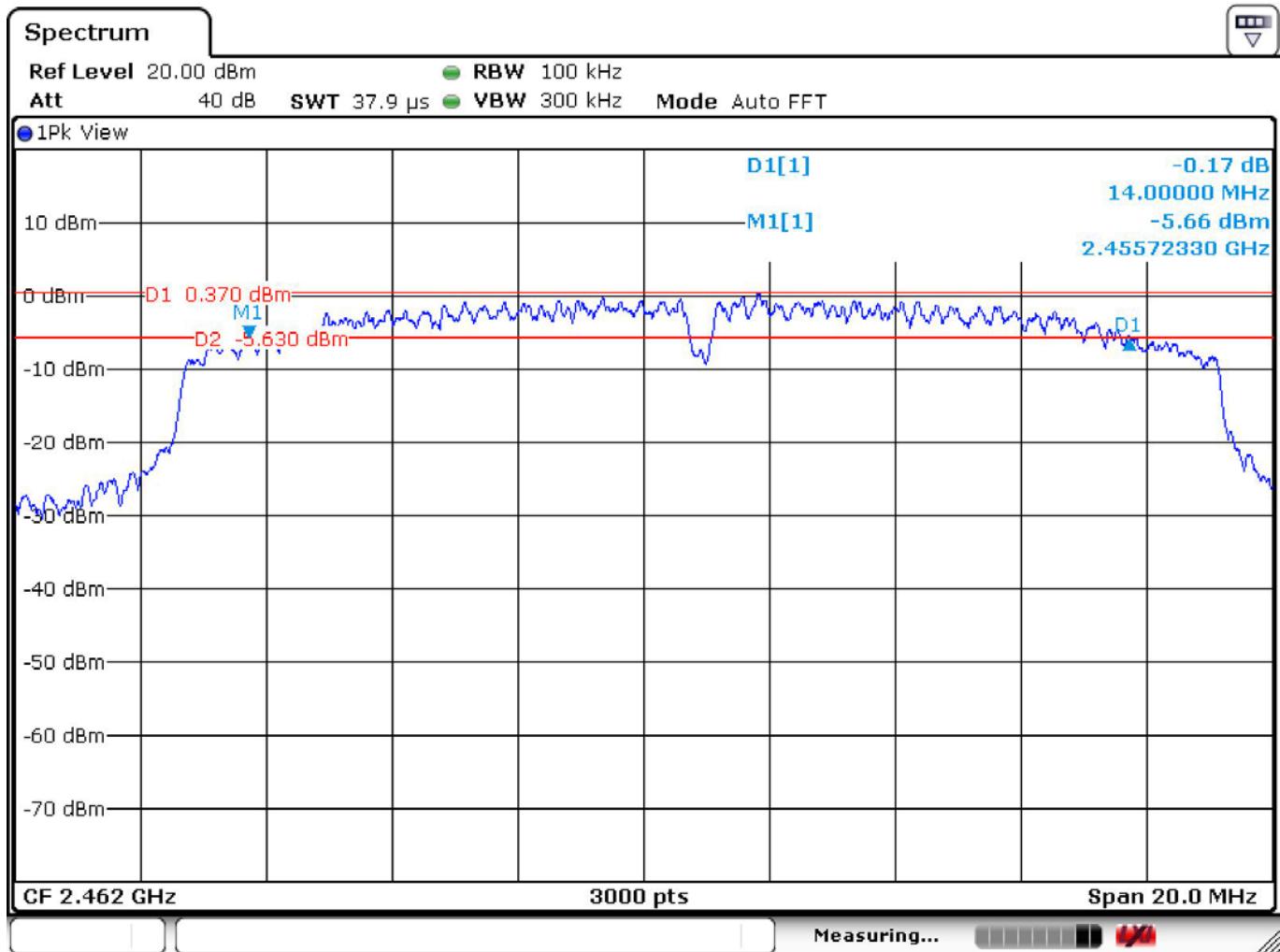


| | | | |
|-------------|---------------|-----------|------------------|
| Temperature | : 26.4°C | Humidity | : 35% |
| Test Date | : 08-Oct-2014 | Tested by | : Kidd Liao |
| Test Mode | : 802.11g | Channel | : CH06 (2437MHz) |



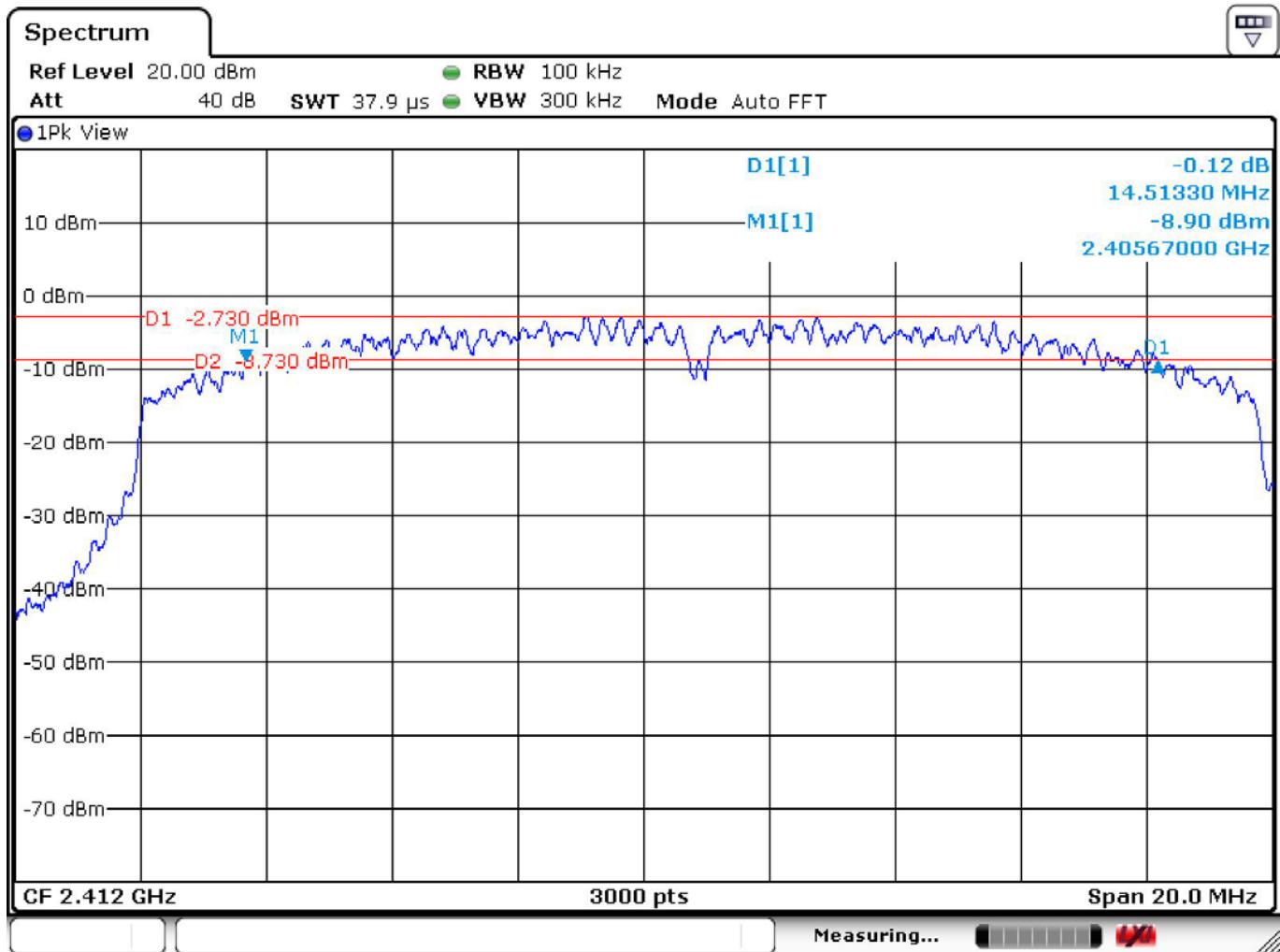


| | | | |
|-------------|---------------|-----------|------------------|
| Temperature | : 26.4°C | Humidity | : 35% |
| Test Date | : 08-Oct-2014 | Tested by | : Kidd Liao |
| Test Mode | : 802.11g | Channel | : CH11 (2462MHz) |



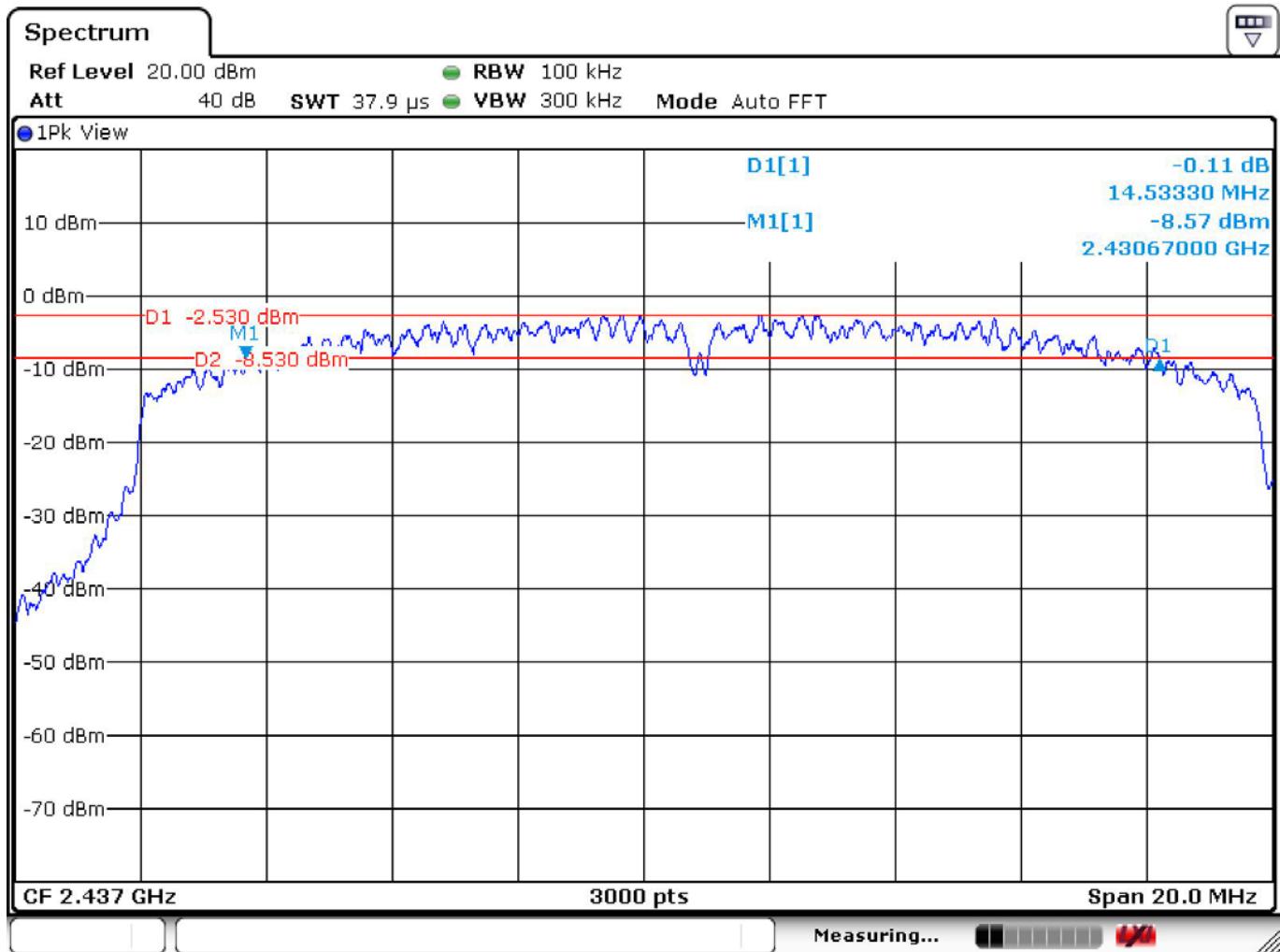


| | | | |
|-------------|-----------------|-----------|------------------|
| Temperature | : 26.4°C | Humidity | : 35% |
| Test Date | : 08-Oct-2014 | Tested by | : Kidd Liao |
| Test Mode | : 802.11n (20M) | Channel | : CH01 (2412MHz) |



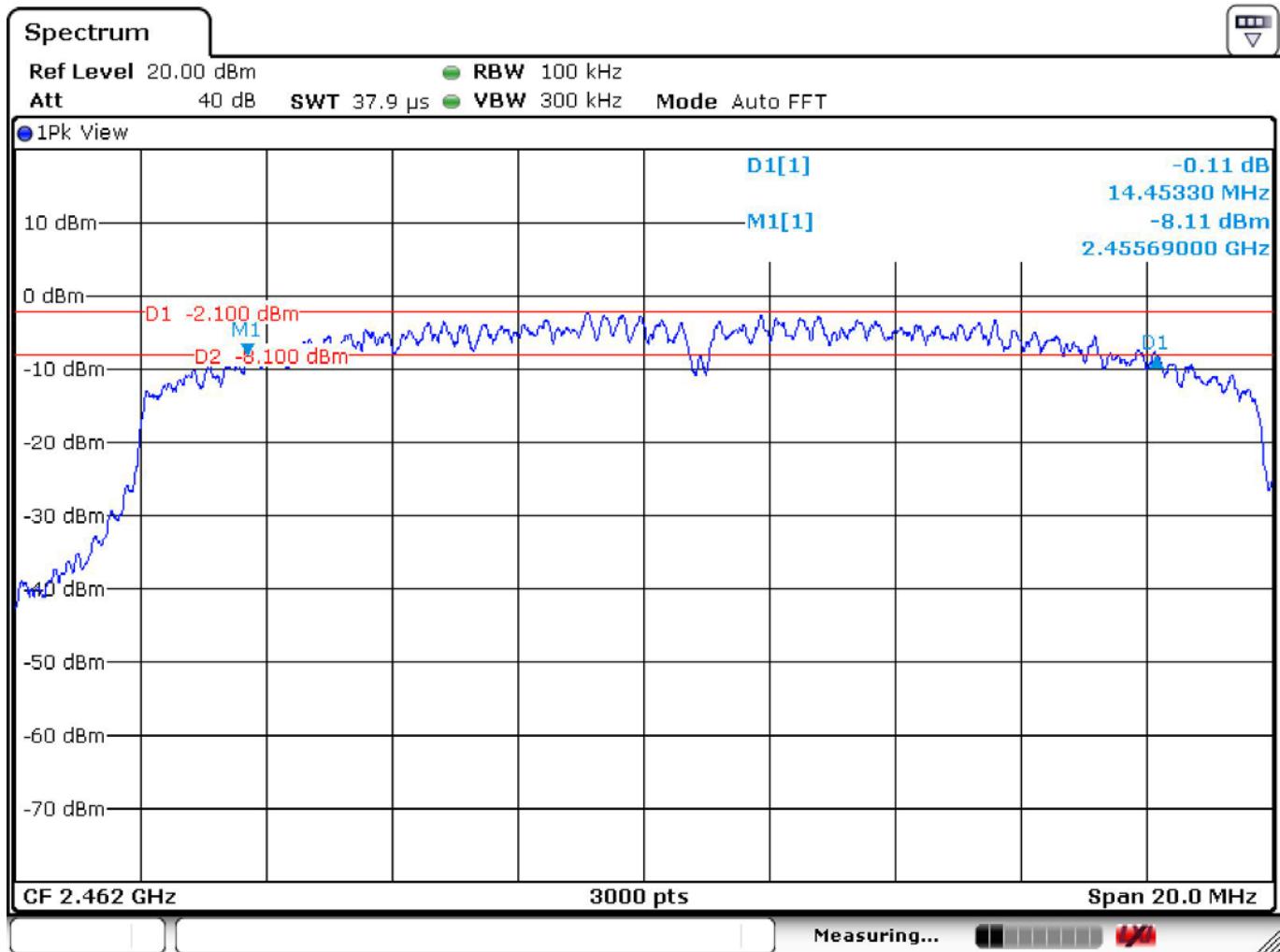


| | | | |
|-------------|-----------------|-----------|------------------|
| Temperature | : 26.4°C | Humidity | : 35% |
| Test Date | : 08-Oct-2014 | Tested by | : Kidd Liao |
| Test Mode | : 802.11n (20M) | Channel | : CH06 (2437MHz) |



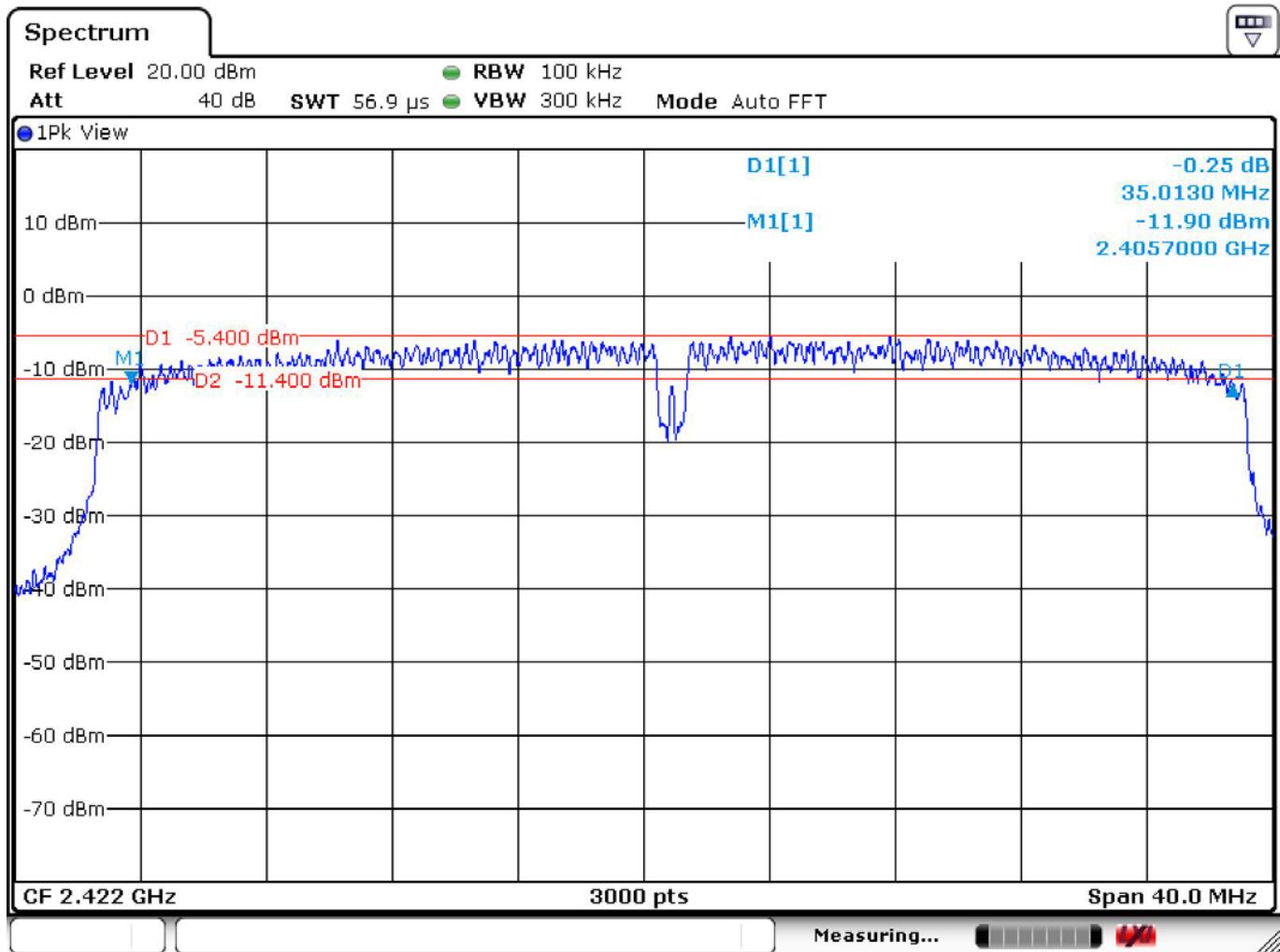


| | | | |
|-------------|-----------------|-----------|------------------|
| Temperature | : 26.4°C | Humidity | : 35% |
| Test Date | : 08-Oct-2014 | Tested by | : Kidd Liao |
| Test Mode | : 802.11n (20M) | Channel | : CH11 (2462MHz) |



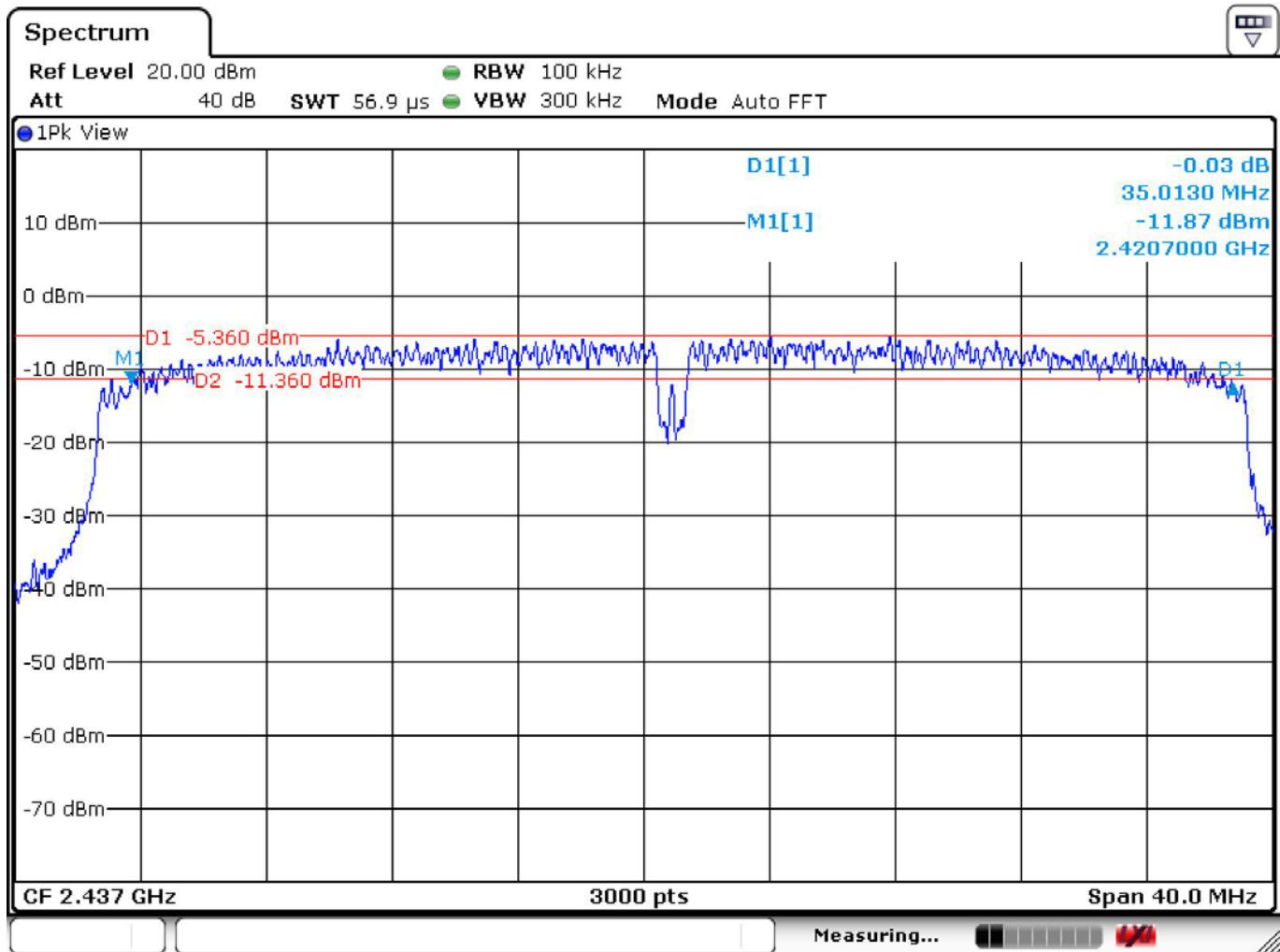


| | | | | | |
|-------------|---|---------------|-----------|---|----------------|
| Temperature | : | 26.4°C | Humidity | : | 35% |
| Test Date | : | 08-Oct-2014 | Tested by | : | Kidd Liao |
| Test Mode | : | 802.11n (40M) | Channel | : | CH03 (2422MHz) |



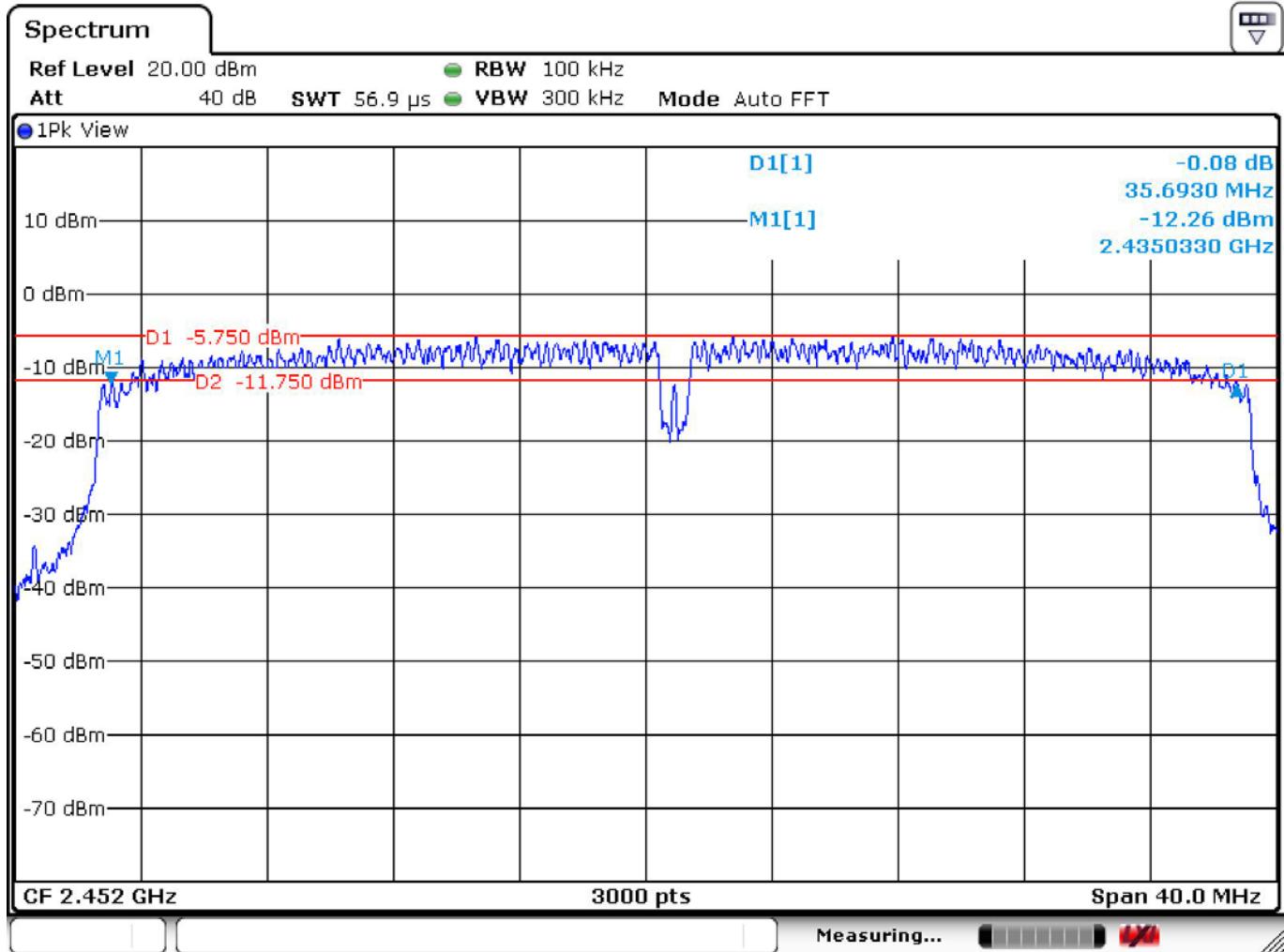


| | | | |
|-------------|-----------------|-----------|------------------|
| Temperature | : 26.4°C | Humidity | : 35% |
| Test Date | : 08-Oct-2014 | Tested by | : Kidd Liao |
| Test Mode | : 802.11n (40M) | Channel | : CH06 (2437MHz) |





| | | | | | |
|-------------|---|---------------|-----------|---|----------------|
| Temperature | : | 26.4°C | Humidity | : | 35% |
| Test Date | : | 08-Oct-2014 | Tested by | : | Kidd Liao |
| Test Mode | : | 802.11n (40M) | Channel | : | CH09 (2452MHz) |



5 Maximum Conducted Output Power

5.1 Test Instruments

Refer to Sec. 1.2 Test Instruments.

5.2 Test Arrangement



5.3 Test Procedure

1. To perform the measurement of maximum conducted (average) output power, firstly, connect the EUT to Wide Band Power Sensor.
2. Then, configure the EUT to transmit continuously and to transmit at its maximum power level.
3. Finally, capture the Maximum reading from PC.

5.4 Limit (§ 15.247(b)(3))

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.

5.5 Test Result

Compliance

The final test data are shown on the following page(s).



Temperature : 26.4°C
Test Date : 08-Oct-2014

Humidity : 35%
Tested by : Kidd Liao

Test Mode : 802.11 b

| Test Channel | Frequency (MHz) | Test Result | | Limit | |
|--------------|--------------------|-------------|--------|-------|-----|
| | | (dBm) | (W) | (dBm) | (W) |
| 01 | 2412 | 17.54 | 0.0568 | 30 | 1 |
| 06 | 2437 | 17.42 | 0.0552 | 30 | 1 |
| 11 | 2462 | 17.20 | 0.0525 | 30 | 1 |

Test Mode : 802.11 g

| Test Channel | Frequency (MHz) | Test Result | | Limit | |
|--------------|--------------------|-------------|--------|-------|-----|
| | | (dBm) | (W) | (dBm) | (W) |
| 01 | 2412 | 19.25 | 0.0841 | 30 | 1 |
| 06 | 2437 | 19.37 | 0.0865 | 30 | 1 |
| 11 | 2462 | 19.32 | 0.0855 | 30 | 1 |

Test Mode : 802.11 n (20M)

| Test Channel | Frequency (MHz) | Test Result | | Limit | |
|--------------|--------------------|-------------|--------|-------|-----|
| | | (dBm) | (W) | (dBm) | (W) |
| 01 | 2412 | 18.64 | 0.0731 | 30 | 1 |
| 06 | 2437 | 18.80 | 0.0759 | 30 | 1 |
| 11 | 2462 | 18.69 | 0.0740 | 30 | 1 |

Test Mode : 802.11n (40M)

| Test Channel | Frequency (MHz) | Test Result | | Limit | |
|--------------|--------------------|-------------|--------|-------|-----|
| | | (dBm) | (W) | (dBm) | (W) |
| 03 | 2422 | 19.62 | 0.0916 | 30 | 1 |
| 06 | 2437 | 19.59 | 0.091 | 30 | 1 |
| 09 | 2452 | 19.63 | 0.0918 | 30 | 1 |

6 Out of Band Emission Test

6.1 Test Instruments

Refer to Sec. 1.2 Test Instruments.

6.2 Test Arrangement



6.3 Test Procedure

1. Connect the EUT to spectrum analyzer through appropriate attenuator.
2. Spectrum setting; RMB = 100 kHz; VBW = 300 kHz.
3. Span \geq 1.5 time DTS BW.
4. Detector = Peak.
5. Trace = Max Hold.

6.4 Limit (§ 15.247(d))

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

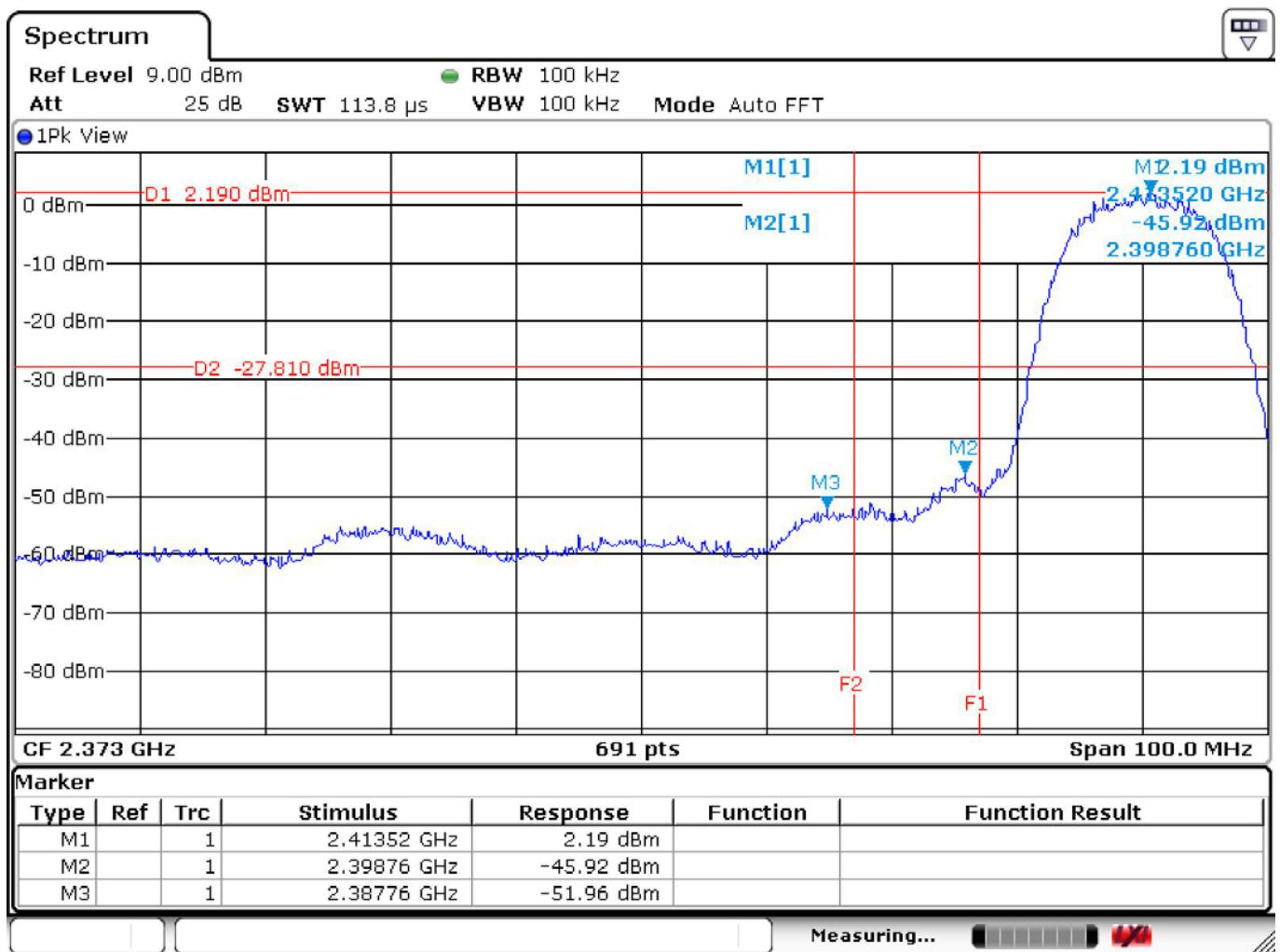
6.5 Test Result

Compliance

The final test data are shown on the following page(s).

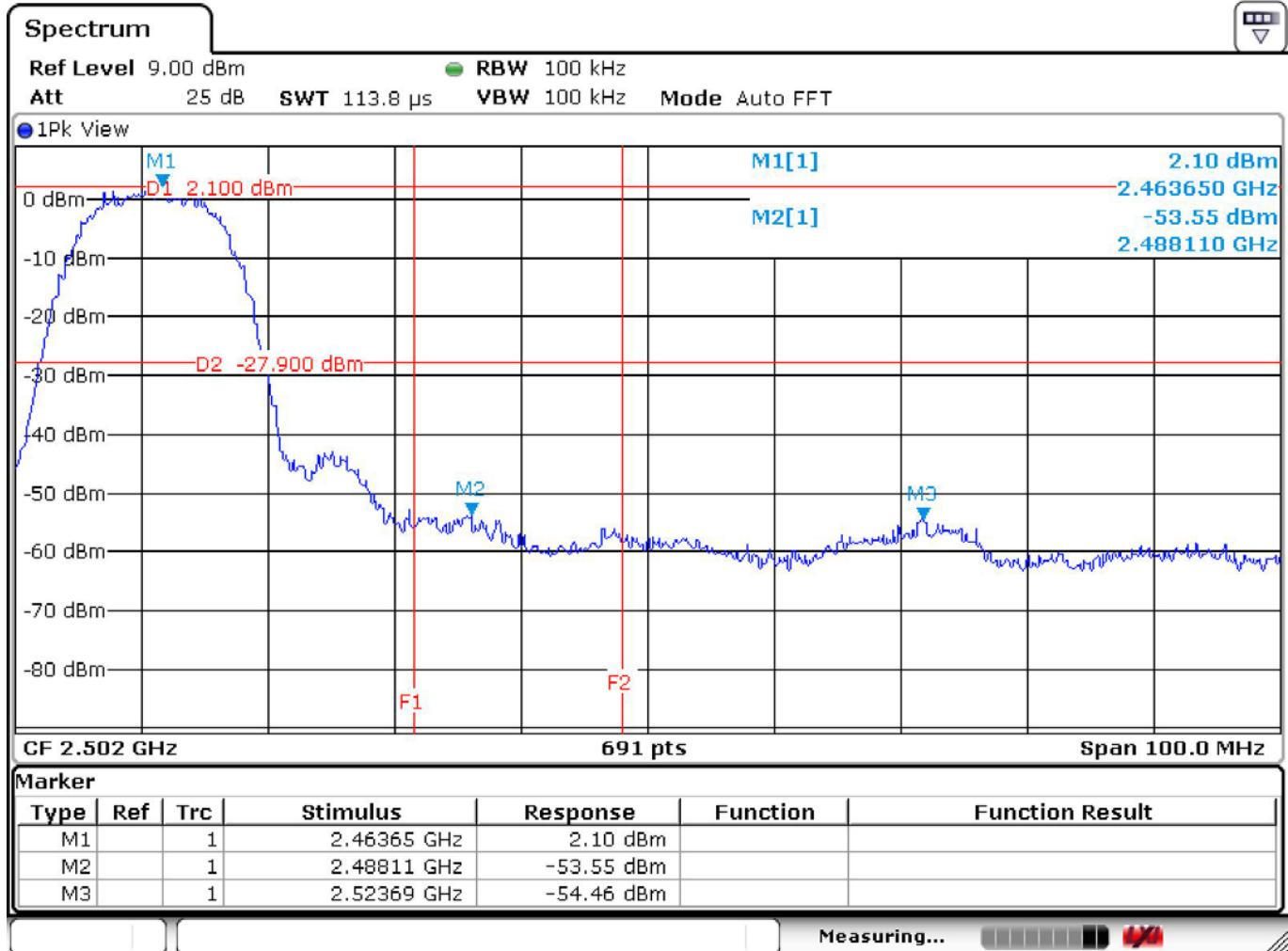
Band-Edge Test Data (Lower Edge)

Temperature : 20.7°C Humidity : 37%
Test Date : 10-Dec-2014 Tested by : Kidd Liao
Test Mode : Mode 1 (802.11b) Channel : CH01 (2412 MHz)



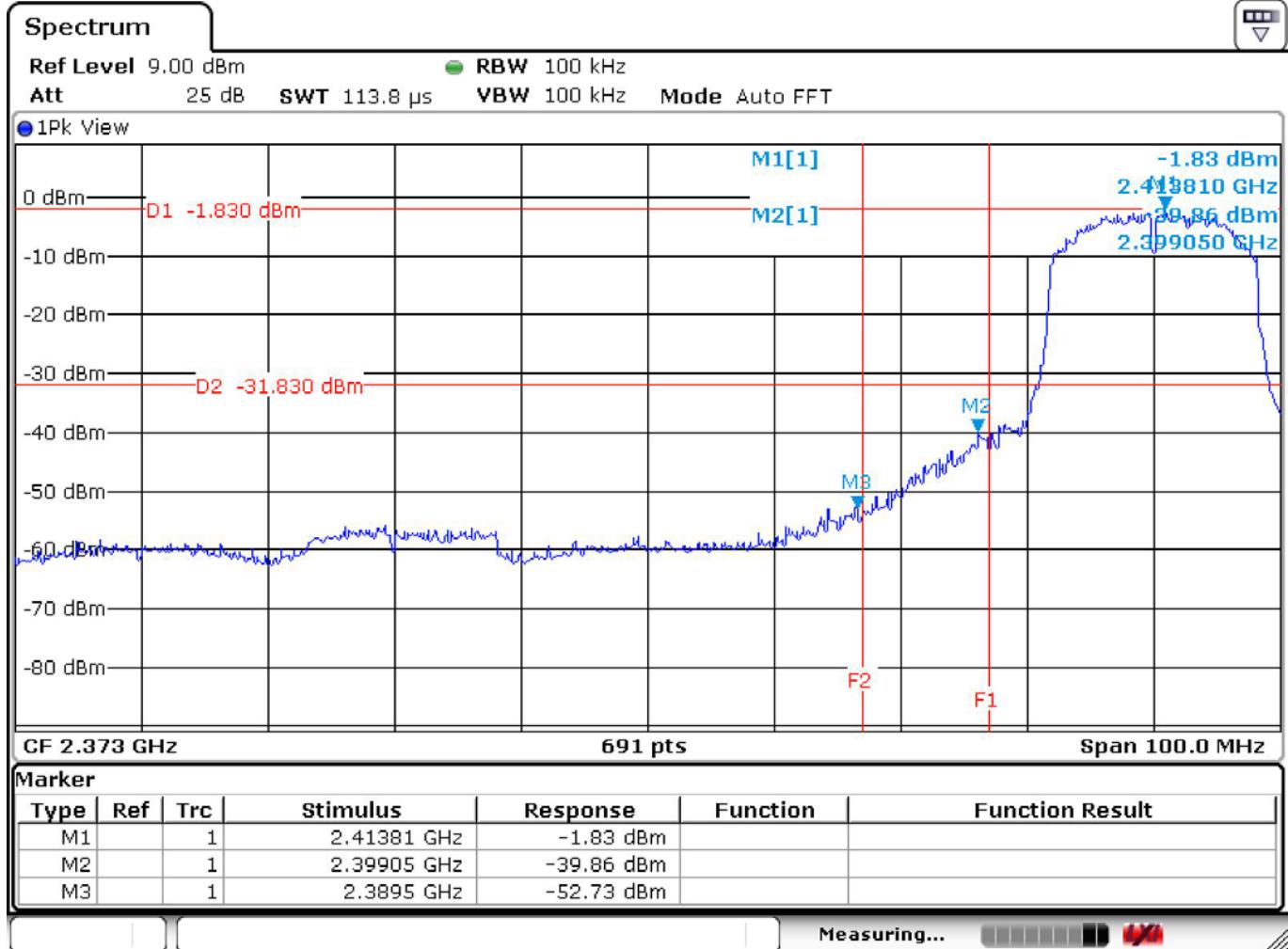
Band-Edge Test Data (Upper Edge)

Temperature : 20.7°C Humidity : 37%
Test Date : 10-Dec-2014 Tested by : Kidd Liao
Test Mode : Mode 3 (802.11b) Channel : CH11 (2462 MHz)



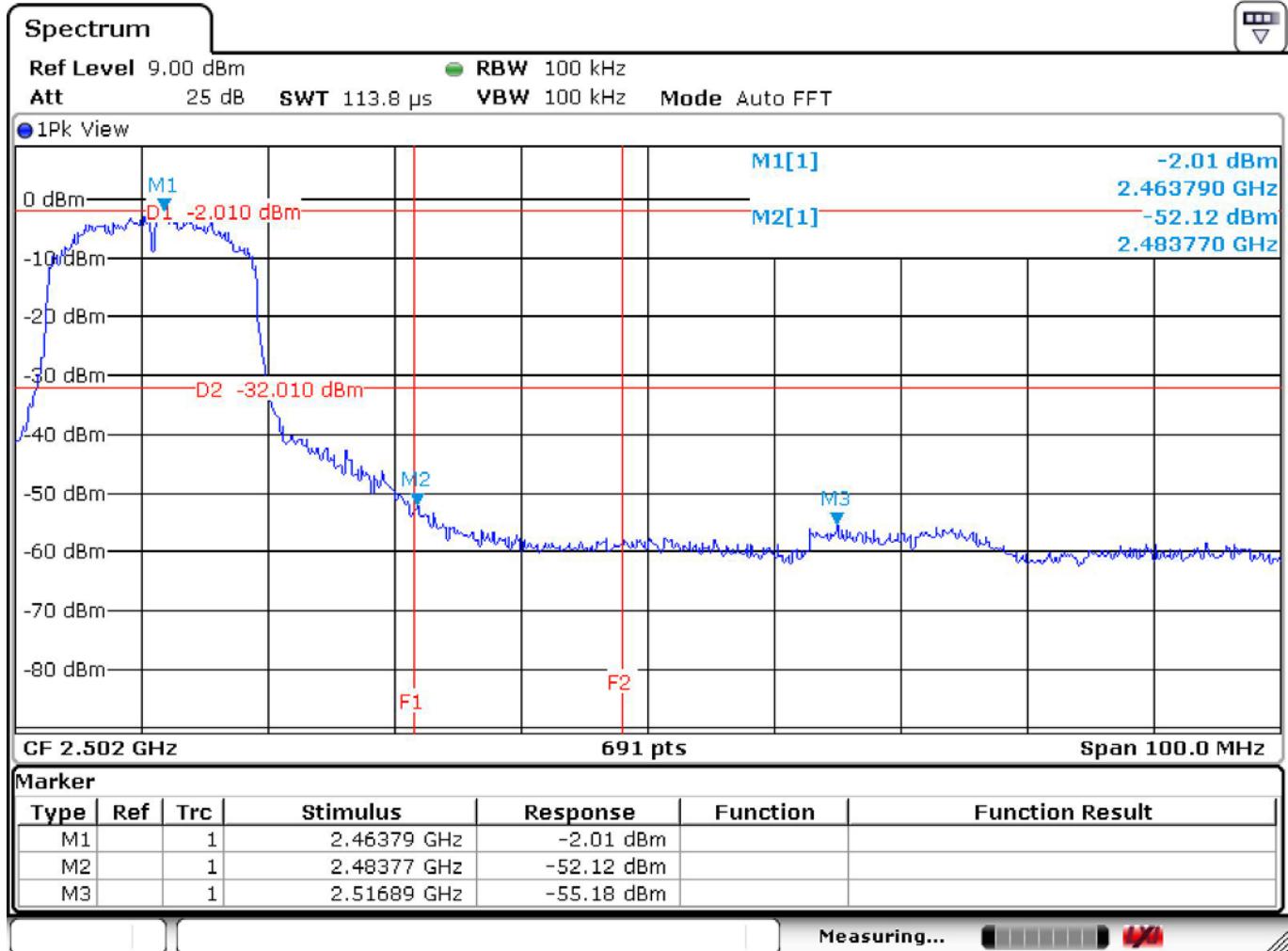
Band-Edge Test Data (Lower Edge)

Temperature : 20.7°C Humidity : 37%
Test Date : 10-Dec-2014 Tested by : Kidd Liao
Test Mode : Mode 4 (802.11g) Channel : CH01 (2412 MHz)



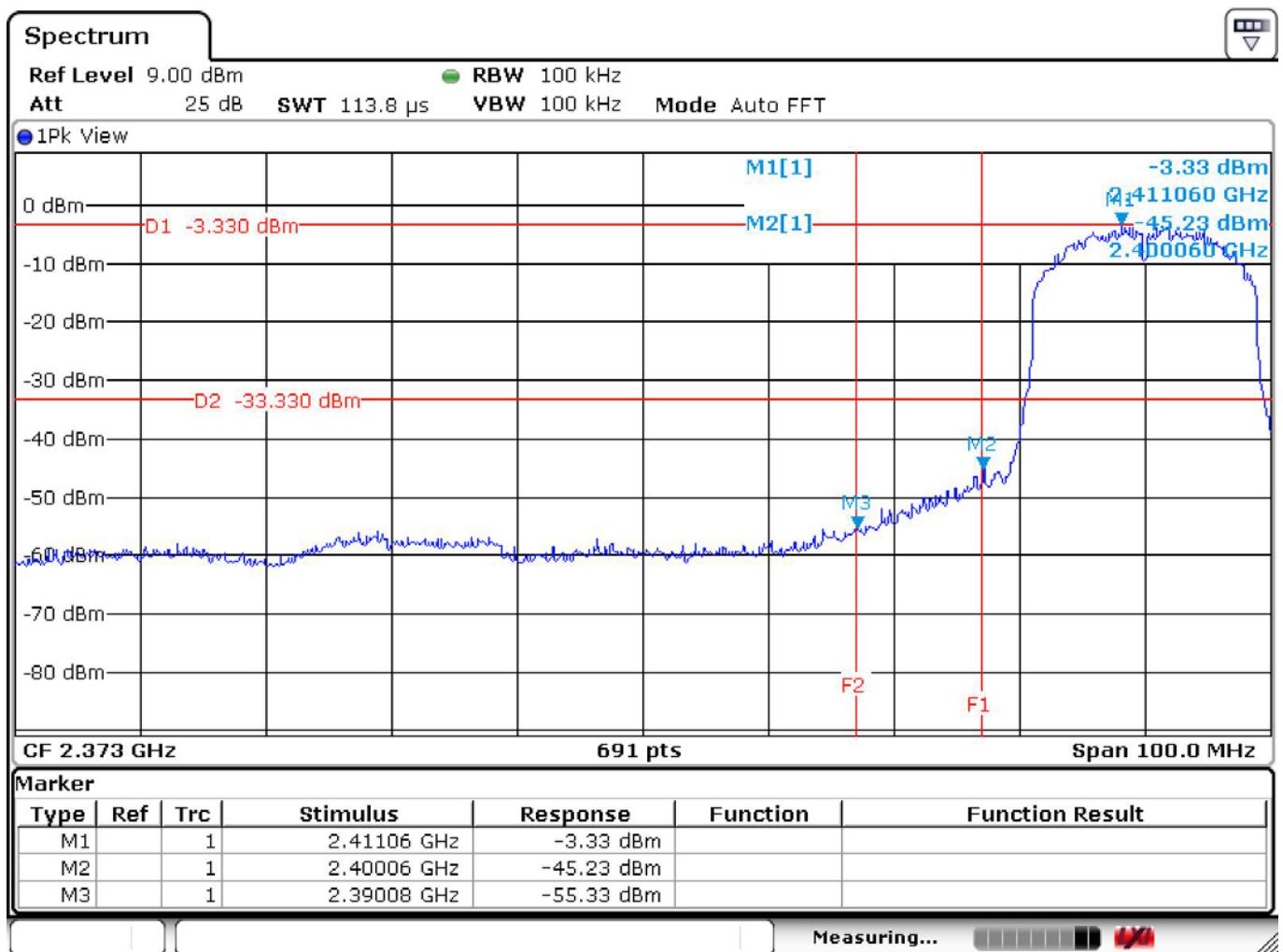
Band-Edge Test Data (Upper Edge)

Temperature : 20.7°C Humidity : 37%
Test Date : 10-Dec-2014 Tested by : Kidd Liao
Test Mode : Mode 6 (802.11g) Channel : CH11 (2462 MHz)



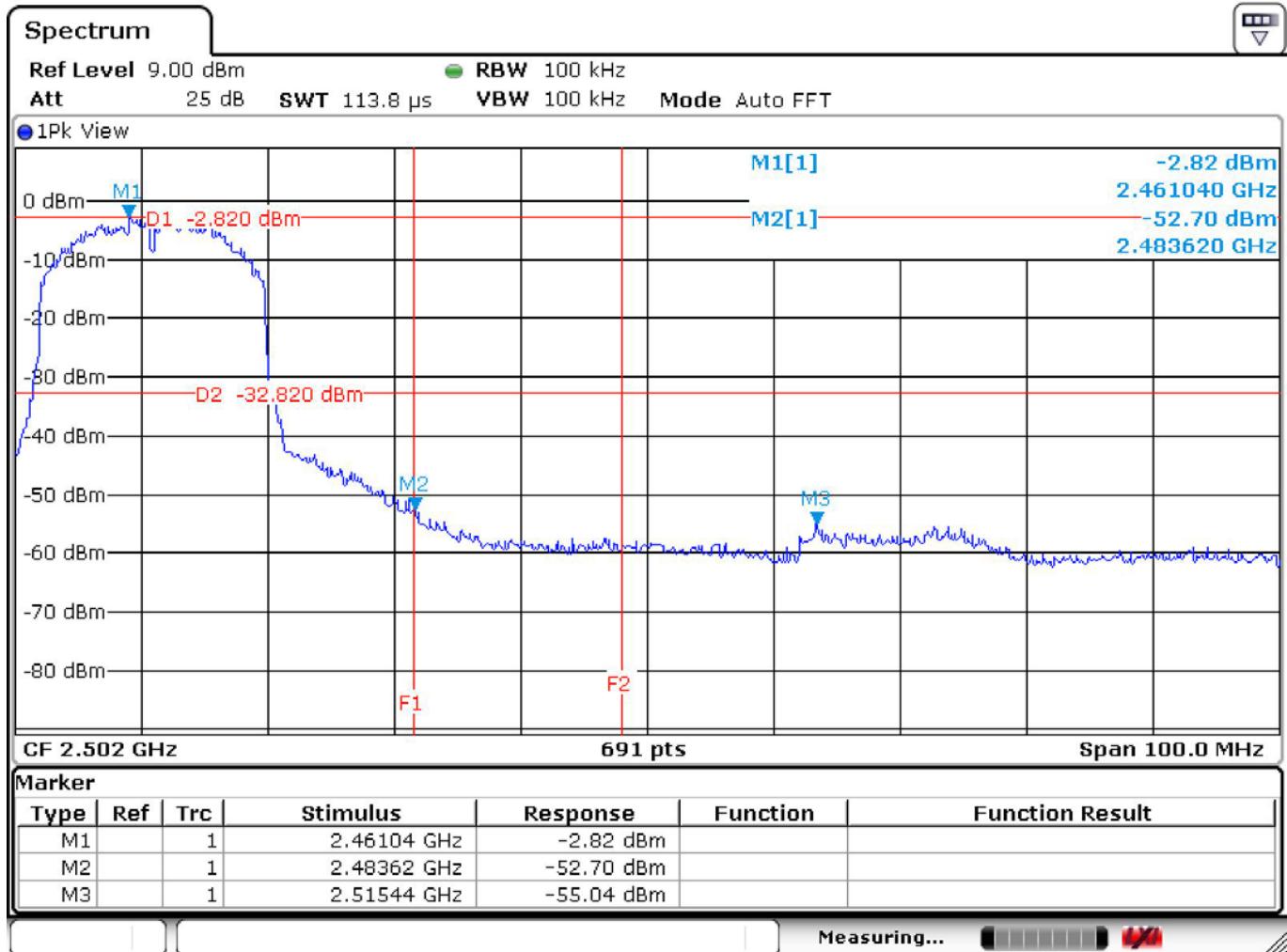
Band-Edge Test Data (Lower Edge)

Temperature : 20.7°C Humidity : 37%
Test Date : 10-Dec-2014 Tested by : Kidd Liao
Test Mode : Mode 7 (802.11n 20M) Channel : CH01 (2412 MHz)



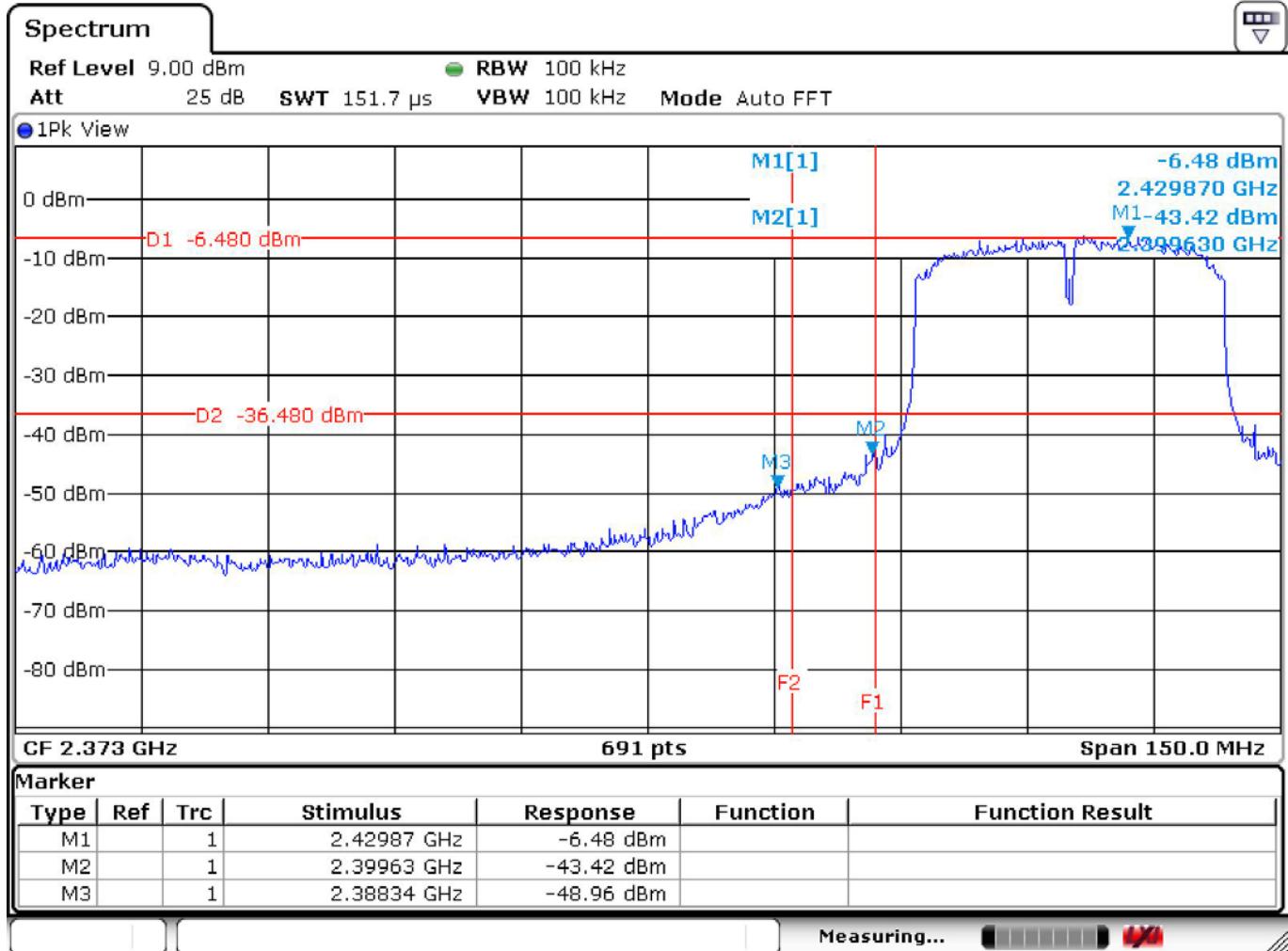
Band-Edge Test Data (Upper Edge)

Temperature : 20.7°C Humidity : 37%
Test Date : 10-Dec-2014 Tested by : Kidd Liao
Test Mode : Mode 9 (802.11n 20M) Channel : CH11 (2462 MHz)



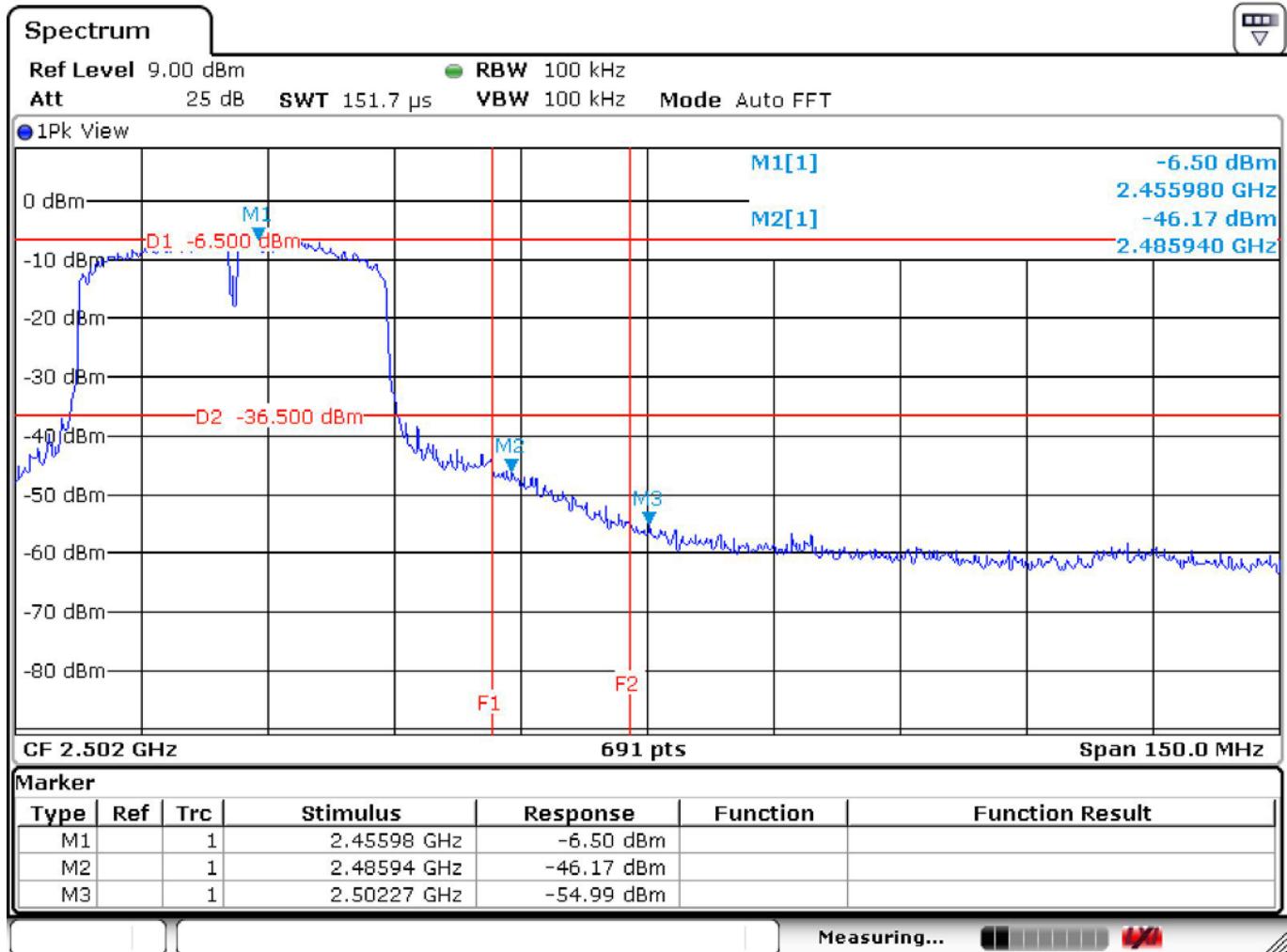
Band-Edge Test Data (Lower Edge)

Temperature : 20.7°C Humidity : 37%
Test Date : 10-Dec-2014 Tested by : Kidd Liao
Test Mode : Mode 10 (802.11n 40M) Channel : CH03 (2422 MHz)



Band-Edge Test Data (Upper Edge)

Temperature : 20.7°C Humidity : 37%
Test Date : 10-Dec-2014 Tested by : Kidd Liao
Test Mode : Mode 12 (802.11n 40M) Channel : CH09 (2452 MHz)



7 Power Spectral Density

7.1 Test Instruments

Refer to Sec. 1.2 Test Instruments.

7.2 Test Arrangement



7.3 Test Procedure

1. Connect the EUT to spectrum analyzer through appropriate attenuator.
2. Spectrum setting; RMB = 100 kHz; VBW = 300 kHz; Span = wide enough to observe the entire wave shape; Sweep Time = 500 sec.
3. Trace = Max Hold.

7.4 Limit (§ 15.247(e))

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

7.5 Test Result

Compliance

The final test data are shown on the following page(s).



Temperature : 26.4°C Humidity : 35%
 Test Date : 08-Oct-2014 Tested by : Kidd Liao

Test Mode : 802.11b

| Test Channel | Frequency (MHz) | Reading (dBm) | Result (dBm) | Limit (dBm) |
|--------------|-----------------|---------------|--------------|-------------|
| 1 | 2412 | 2.80 | -12.50 | 8 |
| 6 | 2437 | 2.94 | -12.36 | 8 |
| 11 | 2462 | 2.70 | -12.60 | 8 |

Transfer the data with following value: BWCF = $10 \log (3k/100kHz) = -15.30$ dB.

Result = Reading + BWCF

發射模式 : 802.11g

| Test Channel | Frequency (MHz) | Reading (dBm) | Result (dBm) | Limit (dBm) |
|--------------|-----------------|---------------|--------------|-------------|
| 1 | 2412 | -2.42 | -17.72 | 8 |
| 6 | 2437 | -1.68 | -16.98 | 8 |
| 11 | 2462 | -1.81 | -17.11 | 8 |

Transfer the data with following value: BWCF = $10 \log (3k/100kHz) = -15.30$ dB.

Result = Reading + BWCF

發射模式 : 802.11n (20M)

| Test Channel | Frequency (MHz) | Reading (dBm) | Result (dBm) | Limit (dBm) |
|--------------|-----------------|---------------|--------------|-------------|
| 1 | 2412 | -2.64 | -17.94 | 8 |
| 6 | 2437 | -2.49 | -17.79 | 8 |
| 11 | 2462 | -2.40 | -17.70 | 8 |

Transfer the data with following value: BWCF = $10 \log (3k/100kHz) = -15.30$ dB.

Result = Reading + BWCF

發射模式 : 802.11n (40M)

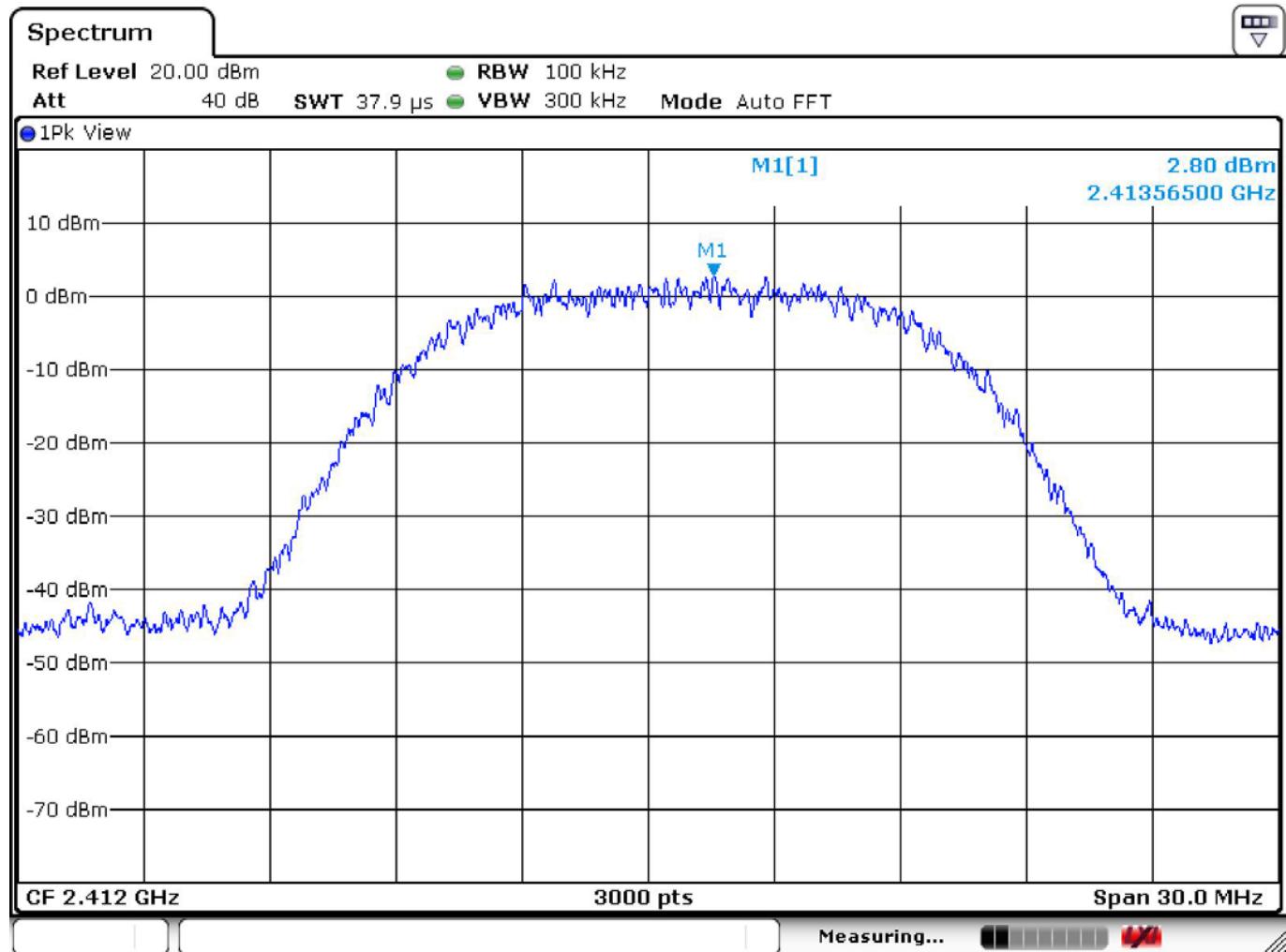
| Test Channel | Frequency (MHz) | Reading (dBm) | Result (dBm) | Limit (dBm) |
|--------------|-----------------|---------------|--------------|-------------|
| 3 | 2422 | -5.55 | -20.85 | 8 |
| 6 | 2437 | -5.41 | -20.71 | 8 |
| 9 | 2452 | -5.41 | -20.71 | 8 |

Transfer the data with following value: BWCF = $10 \log (3k/100kHz) = -15.30$ dB.

Result = Reading + BWCF

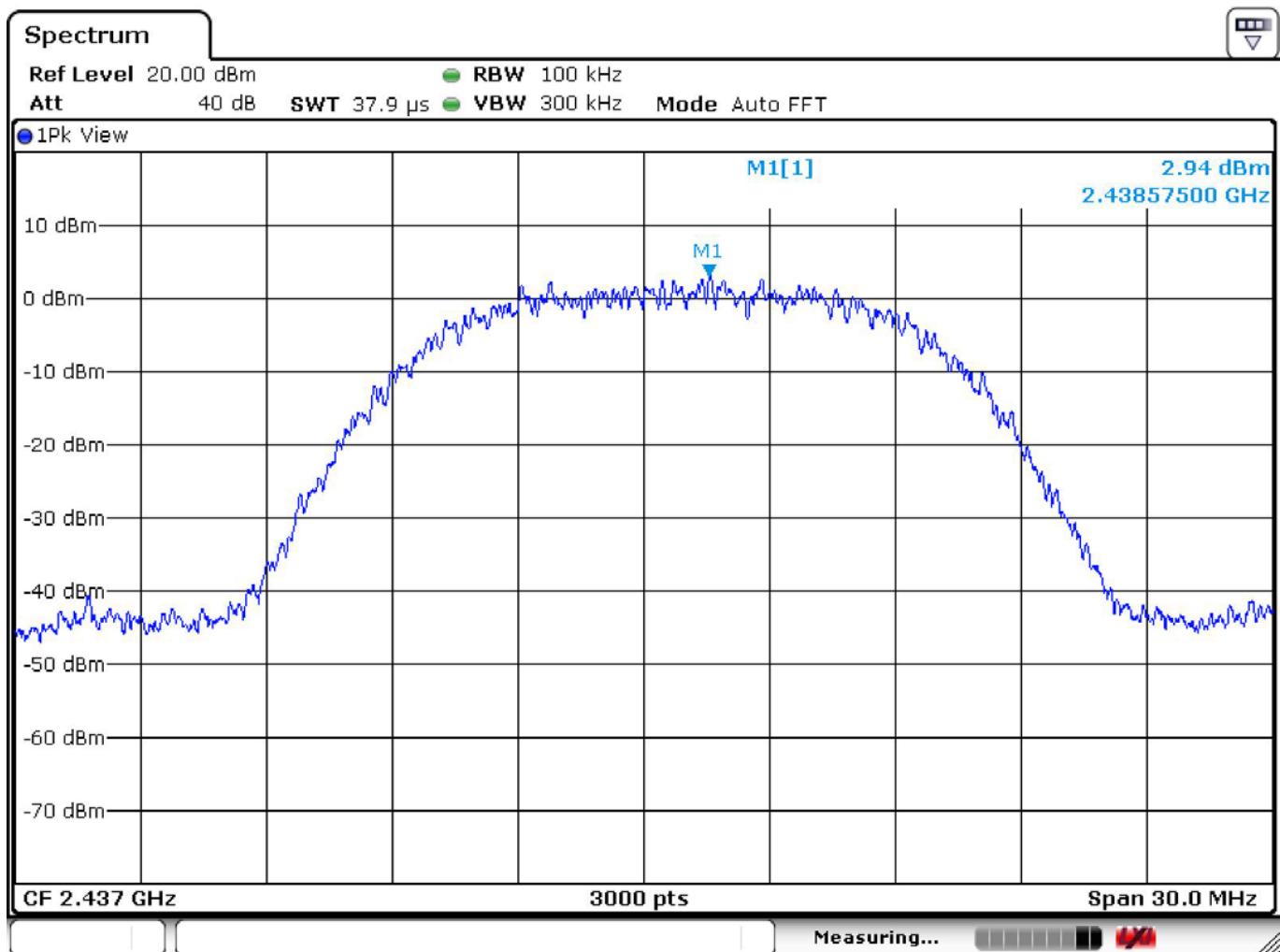
Power Spectral Density Test Data

| | | | |
|-------------|---------------|-----------|-------------------|
| Temperature | : 26.4°C | Humidity | : 35% |
| Test Date | : 08-Oct-2014 | Tested by | : Kidd Liao |
| Test Mode | : Mode 1 | Channel | : CH01 (2412 MHz) |



Power Spectral Density Test Data

| | | | |
|-------------|---------------|-----------|-------------------|
| Temperature | : 26.4°C | Humidity | : 35% |
| Test Date | : 08-Oct-2014 | Tested by | : Kidd Liao |
| Test Mode | : Mode 2 | Channel | : CH06 (2437 MHz) |



Power Spectral Density Test Data

| | | | |
|-------------|---------------|-----------|-------------------|
| Temperature | : 26.4°C | Humidity | : 35% |
| Test Date | : 08-Oct-2014 | Tested by | : Kidd Liao |
| Test Mode | : Mode 3 | Channel | : CH11 (2462 MHz) |

