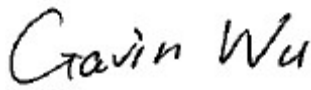




## TEST REPORT

|                                                                                                                                                                                |                                                                                     |                                                                                       |                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------|
| <b>Report No.:</b>                                                                                                                                                             | <b>EM201300325-6</b>                                                                | <b>Application No.:</b>                                                               | <b>ZJ00029362</b> |
| <b>Applicant:</b>                                                                                                                                                              | Harman International Industries, Incorporated                                       |                                                                                       |                   |
| <b>Applicant Address:</b>                                                                                                                                                      | 8500 Balboa Blvd, Northridge, CA 91329, UNITED STATES                               |                                                                                       |                   |
| <b>Sample Description:</b>                                                                                                                                                     | Blu-RAY DISC SYSTEM                                                                 |                                                                                       |                   |
| <b>Model:</b>                                                                                                                                                                  | BDS 580                                                                             |                                                                                       |                   |
| <b>Adding Model:</b>                                                                                                                                                           | /                                                                                   |                                                                                       |                   |
| <b>FCC ID:</b>                                                                                                                                                                 | APIBDS580                                                                           |                                                                                       |                   |
| <b>Test Specification:</b>                                                                                                                                                     | FCC Part 15,Subpart C(Section 15.247)                                               |                                                                                       |                   |
| <b>Test Date:</b>                                                                                                                                                              | 2013-05-22 to 2013-06-19                                                            |                                                                                       |                   |
| <b>Issue Date:</b>                                                                                                                                                             | 2013-06-19                                                                          |                                                                                       |                   |
| <b>Test Result:</b>                                                                                                                                                            | PASS                                                                                |                                                                                       |                   |
| <b>Prepared By:</b>                                                                                                                                                            | <b>Reviewed By:</b>                                                                 | <b>Approved By:</b>                                                                   |                   |
| Lynn Xiao/ Test Engineer                                                                                                                                                       | Jane Cao / Technical Assistance                                                     | Gavin Wu / Manager                                                                    |                   |
|                                                                                             |  |  |                   |
| Date:2013-06-19                                                                                                                                                                | Date:2013-06-19                                                                     | Date:2013-06-19                                                                       |                   |
| <b>Other Aspects:</b>                                                                                                                                                          |                                                                                     |                                                                                       |                   |
| /                                                                                                                                                                              |                                                                                     |                                                                                       |                   |
| <b>Abbreviations:</b> ok / P = passed; fail / F = failed; n.a. / N = not applicable                                                                                            |                                                                                     |                                                                                       |                   |
| The test result in this test report refers exclusively to the presented test sample. This report shall not be reproduced except in full, without the written approval of GRGT. |                                                                                     |                                                                                       |                   |

GRG Metrology and Test Co., Ltd.

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<http://www.grgtest.com>

Ver.:1.0 / 01.Jan.2011

FCC ID : APIBDS580

## **DIRECTIONS OF TEST**

1. This station carries out test task according to the national regulation of verifications which can be traced to National Primary Standards and BIPM.
2. The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory.
3. If there is any objection concerning the test, the client should inform the laboratory within 15 days from the date of receiving the test report.

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**1. TEST RESULT SUMMARY**

| <b>Section B of FCC Part 15.247:2009</b> |                                         |                                  |               |
|------------------------------------------|-----------------------------------------|----------------------------------|---------------|
| <b>Standard</b>                          | <b>Item</b>                             | <b>Limit / Severity</b>          | <b>Result</b> |
| FCC Part 15, Subpart C<br>(15.247)       | Antenna Requirement                     | §15.203                          | PASS          |
|                                          | Conducted Emissions                     | §15.207 (a)                      | PASS          |
|                                          | Spurious Emissions at Antenna Port      | §15.247(d)                       | PASS          |
|                                          | Restricted Bands                        | §15.205                          | PASS          |
|                                          | Spurious Emissions                      | §15.209, §15.205,<br>1§15.247(d) | PASS          |
|                                          | 6 dB Bandwidth                          | §15.247 (a)(2)                   | PASS          |
|                                          | Maximum Peak Output Power               | §15.247(b)(3)                    | PASS          |
|                                          | 100kHz Bandwidth of Frequency Band Edge | §15.247(d)                       | PASS          |
|                                          | Power Spectral Density                  | §15.247(e)                       | PASS          |

## 2. GENERAL DESCRIPTION OF EUT

### 2.1 APPLICANT

Name: Harman International Industries, Incorporated  
Address: 8500 Balboa Blvd, Northridge, CA 91329, UNITED STATES

### 2.2 MANUFACTURER

Name: TCL TECHNOLOGY ELECTRONICS (HUIZHOU) CO., LTD  
Address: Section 37, Zhongkai High-tech Development Zone, Huizhou City, Guangdong Province, China.

### 2.3 BASIC DESCRIPTION OF EQUIPMENT UNDER TEST

Equipment: Blu-RAY DISC SYSTEM  
Model No.: BDS 580  
Adding Model /  
Trade Name: harman/kardon  
Power supply AC 100-240V,50/60Hz  
Frequency Range 2400MHZ~ 2483.5MHz  
Antenna gain: 2dBi; 3dBi  
Type of emission WIFI  
Modulation type DSSS (802.11b) OFDM (802.11g)  
Note: Pretest the two antenna port (con1 and con2). Found that con1 is worst and the antenna of this port is 3dBi. So we record con1 port data.

### 3. LABORATORY AND ACCREDITATIONS

#### 3.1 LABORATORY

The tests and measurements refer to this report were performed by Guangzhou GRG Metrology and Test CO., LTD.

Add. : 163 Pingyun Rd, West of Huangpu Ave, Guangzhou, 510656, P. R. China

Telephone: +86-20-38699959, 38699960, 38699961

Fax : +86-20-38695185

#### 3.2 ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

|               |                             |
|---------------|-----------------------------|
| <b>USA</b>    | FCC Listed Lab (No. 688188) |
| <b>China</b>  | CNAS (No.L0446)             |
| <b>China</b>  | DILAC (No.DL175)            |
| <b>Canada</b> | Registration No.:8355A-1    |

#### 3.3 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| Measurement        |            | Frequency     | Uncertainty |
|--------------------|------------|---------------|-------------|
| Radiated Emission  | Horizontal | 30MHz~1000MHz | 4.2dB       |
|                    |            | 1GHz~26.5GHz  | 4.2dB       |
|                    | Vertical   | 30MHz~1000MHz | 4.4dB       |
|                    |            | 1GHz~26.5GHz  | 4.4dB       |
| Conducted Emission |            | 9kHz~30MHz    | 3.1 dB      |

This uncertainty represents an expanded uncertainty factor of  $k=2$ .

### 3.4 LIST OF USED TEST EQUIPMENT AT GRGT

| Name of Equipment                              | Manufacturer | Model     | Serial Number | Calibration Due |
|------------------------------------------------|--------------|-----------|---------------|-----------------|
| <b>Conducted Emissions</b>                     |              |           |               |                 |
| EMI Receiver                                   | R&S          | ESU40     | 100529        | 2014-01-24      |
| L.I.S.N                                        | SCHWARZBECK  | NSLK 8127 | 8127450       | 2013-08-06      |
| <b>Spurious Emissions at Antenna Port</b>      |              |           |               |                 |
| Receiver                                       | R&S          | ESU40     | 100106        | 2014-01-24      |
| <b>Restricted Bands</b>                        |              |           |               |                 |
| Receiver                                       | R&S          | ESU40     | 100106        | 2014-01-24      |
| <b>Spurious Emissions</b>                      |              |           |               |                 |
| Receiver                                       | R&S          | ESU40     | 100106        | 2014-01-24      |
| Signal Generator                               | R&S          | SML03     | 103002        | 2013-11-14      |
| Biconical Log-periodic Antenna                 | ETS.LINDGREN | 3142C     | 00075971      | 2014-05-26      |
| Horn antenna                                   | SCHWARZBECK  | BBHA9120D | D752          | 2013-10-14      |
| <b>6 dB Bandwidth</b>                          |              |           |               |                 |
| Receiver                                       | R&S          | ESU40     | 100106        | 2014-01-24      |
| <b>Maximum Peak Output Power</b>               |              |           |               |                 |
| Receiver                                       | R&S          | ESU40     | 100106        | 2014-01-24      |
| <b>100kHz Bandwidth of Frequency Band Edge</b> |              |           |               |                 |
| Receiver                                       | R&S          | ESU40     | 100106        | 2014-01-24      |
| <b>Power Spectral Density</b>                  |              |           |               |                 |
| Receiver                                       | R&S          | ESU40     | 100106        | 2014-01-24      |

**NOTE:** The calibration interval of the above test instruments is 12 months.

#### **4. ANTENNA REQUIREMENT**

The EUT has two antennas. The antenna is a PCB antenna and an exposed antenna.

The gain of antenna 0 is 3dBi and the gain of antenna 1 is 2dBi .which accordance 15.203.is considered sufficient to comply with the provisions of this section

## 5. CONDUCTED EMISSION MEASUREMENT

### 5.1 LIMITS

| Frequency range      | Limits (dB $\mu$ V) |              |
|----------------------|---------------------|--------------|
|                      | Quasi-peak          | Average      |
| 150kHz $\sim$ 0.5MHz | 66 $\sim$ 56        | 56 $\sim$ 46 |
| 0.5 MHz $\sim$ 5 MHz | 56                  | 46           |
| 5 MHz $\sim$ 30 MHz  | 60                  | 50           |

**NOTE:** (1) The lower limit shall apply at the transition frequencies.

(2) The limit decreases in line with the logarithm of the frequency in the range of 150 kHz to 0.5MHz.

### 5.2 TEST PROCEDURES

#### Procedure of Preliminary Test

Test procedures follow ANSI C63.4:2009.

For measurement of the disturbance voltage the equipment under test (EUT) is connected to the power supply mains and any other extended network via one or more artificial network(s). An EUT, whether intended to be grounded or not, and which is to be used on a table is configured as follows:

- Either the bottom or the rear of the EUT shall be at a controlled distance of 40 cm from a reference ground plane. This ground plane is normally the wall or floor of a shielded room. It may also be a grounded metal plane of at least 2 m by 2 m. This is physically accomplished as follows:

- 1) place the EUT on a table of non-conducting material which is at least 80 cm high. Place the EUT so that it is 40 cm from the wall of the shielded room, or

- 2) place the EUT on a table of non-conducting material which is 40 cm high so that the bottom of the EUT is 40 cm above the ground plane;

- All other conductive surfaces of the EUT shall be at least 80 cm from the reference ground plane;

- The EUT are placed on the floor that one side of the housings is 40 cm from the vertical reference ground plane and other metallic parts;

- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth forming a bundle 30 cm to 40 cm long, hanging approximately in the middle between the ground plane and the table.

- I/O cables that are connected to a peripheral shall be bundled in the centre. The end of the cable may be terminated if required using correct terminating impedance. The total length shall not exceed 1 m.

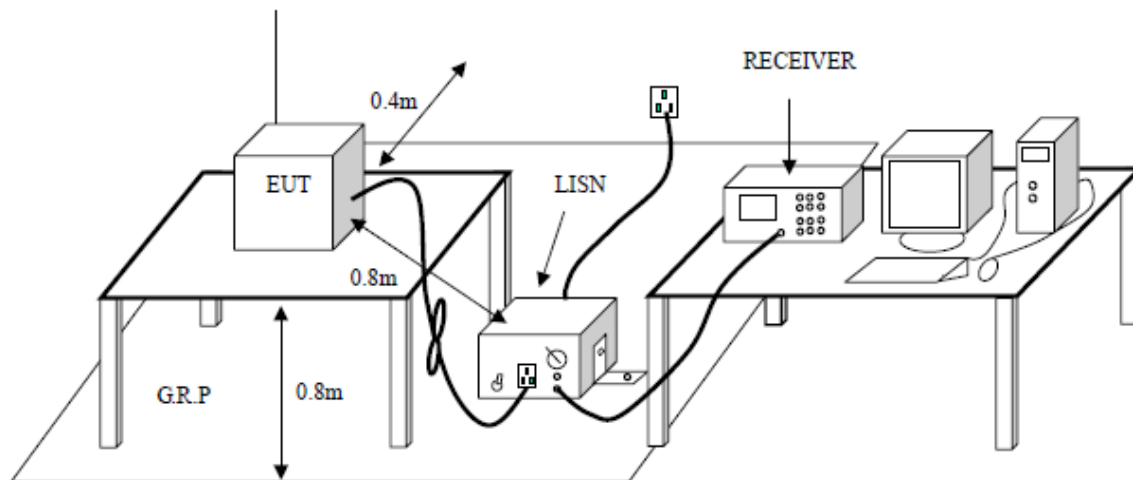
The test mode(s) described in Item 2.4 were scanned during the preliminary test. After the preliminary scan, we found the test mode described in Item 2.4 producing the highest emission level. The EUT configuration and cable configuration of the above highest emission levels were recorded for reference of the final test.

#### Procedure of Final Test

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test. A scan was taken on both power lines,

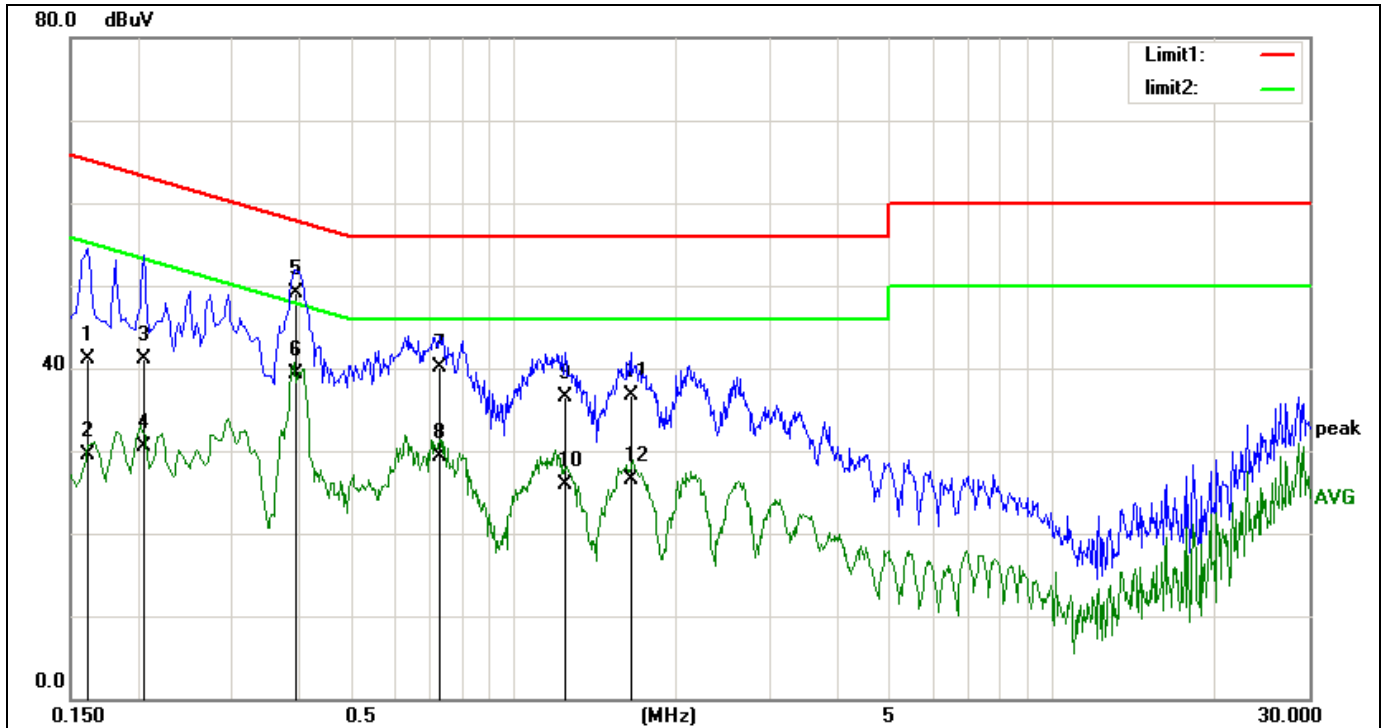
recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. The test data of the worst-case condition(s) was recorded.

### 5.3 TEST SETUP



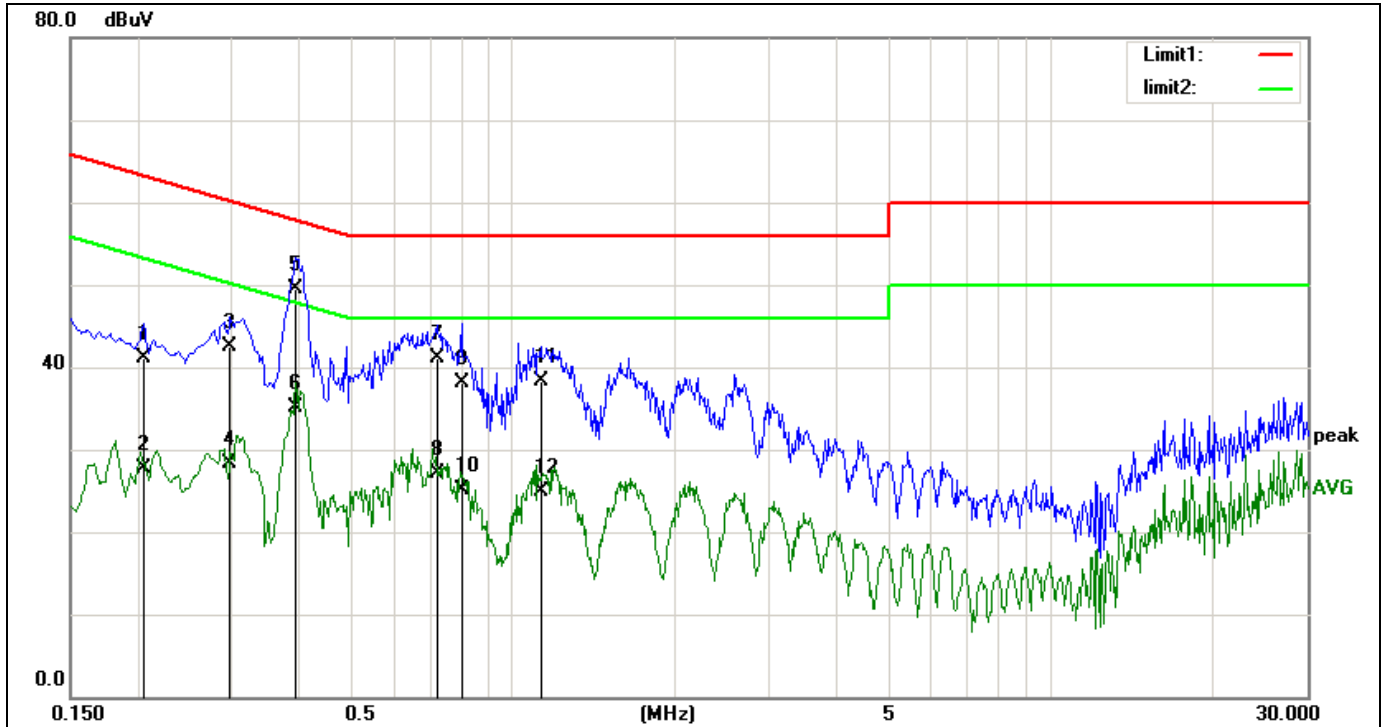
## 5.4 TEST RESULTS

|                  |                             |               |              |
|------------------|-----------------------------|---------------|--------------|
| Project No.:     | ZJ00029362                  | Probe:        | L1           |
| Standard:        | (CE)FCC PART 15 class B _QP | Power Source: | AC 120V/60Hz |
| Test item:       | Conduction Test             | Date:         | 2013-6-13    |
| Temp./Hum.(%RH): | 25/57%RH                    | Time:         | 8:19:23      |
| EUT:             | Blu-RAY DISC SYSTEM         | Test Result:  | Pass         |
| Model:           | BDS 580                     |               |              |
| Note:            |                             |               |              |



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>Factor(dB) | Result<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-----------------------|------------------|-----------------|----------------|--------|
| 1   | 0.1620             | 39.31             | 1.79                  | 41.10            | 65.36           | -24.26         | QP     |
| 2   | 0.1620             | 27.81             | 1.79                  | 29.60            | 55.36           | -25.76         | AVG    |
| 3   | 0.2060             | 40.20             | 1.00                  | 41.20            | 63.36           | -22.16         | QP     |
| 4   | 0.2060             | 29.50             | 1.00                  | 30.50            | 53.36           | -22.86         | AVG    |
| 5   | 0.3940             | 48.46             | 0.74                  | 49.20            | 57.98           | -8.78          | QP     |
| 6   | 0.3940             | 38.56             | 0.74                  | 39.30            | 47.98           | -8.68          | AVG    |
| 7   | 0.7300             | 39.79             | 0.41                  | 40.20            | 56.00           | -15.80         | QP     |
| 8   | 0.7300             | 28.99             | 0.41                  | 29.40            | 46.00           | -16.60         | AVG    |
| 9   | 1.2460             | 36.00             | 0.50                  | 36.50            | 56.00           | -19.50         | QP     |
| 10  | 1.2460             | 25.50             | 0.50                  | 26.00            | 46.00           | -20.00         | AVG    |
| 11  | 1.6460             | 36.13             | 0.57                  | 36.70            | 56.00           | -19.30         | QP     |
| 12  | 1.6460             | 26.03             | 0.57                  | 26.60            | 46.00           | -19.40         | AVG    |

|                         |                                    |                      |                     |
|-------------------------|------------------------------------|----------------------|---------------------|
| <b>Project No.:</b>     | <b>ZJ00029362</b>                  | <b>Probe:</b>        | <b>N</b>            |
| <b>Standard:</b>        | <b>(CE)FCC PART 15 class B _QP</b> | <b>Power Source:</b> | <b>AC 120V/60Hz</b> |
| <b>Test item:</b>       | <b>Conduction Test</b>             | <b>Date:</b>         | <b>2013-6-13</b>    |
| <b>Temp./Hum.(%RH):</b> | <b>25/57%RH</b>                    | <b>Time:</b>         | <b>8:19:23</b>      |
| <b>EUT:</b>             | <b>Blu-RAY DISC SYSTEM</b>         | <b>Test Result:</b>  | <b>Pass</b>         |
| <b>Model:</b>           | <b>BDS 580</b>                     |                      |                     |
| <b>Note:</b>            |                                    |                      |                     |



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>Factor(dB) | Result<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-----------------------|------------------|-----------------|----------------|--------|
| 1   | 0.2060             | 40.20             | 1.00                  | 41.20            | 63.36           | -22.16         | QP     |
| 2   | 0.2060             | 26.80             | 1.00                  | 27.80            | 53.36           | -25.56         | AVG    |
| 3   | 0.2980             | 41.69             | 0.91                  | 42.60            | 60.30           | -17.70         | QP     |
| 4   | 0.2980             | 27.39             | 0.91                  | 28.30            | 50.30           | -22.00         | AVG    |
| 5   | 0.3940             | 48.86             | 0.74                  | 49.60            | 57.98           | -8.38          | QP     |
| 6   | 0.3940             | 34.36             | 0.74                  | 35.10            | 47.98           | -12.88         | AVG    |
| 7   | 0.7220             | 40.79             | 0.41                  | 41.20            | 56.00           | -14.80         | QP     |
| 8   | 0.7220             | 26.69             | 0.41                  | 27.10            | 46.00           | -18.90         | AVG    |
| 9   | 0.8020             | 37.79             | 0.41                  | 38.20            | 56.00           | -17.80         | QP     |
| 10  | 0.8020             | 24.69             | 0.41                  | 25.10            | 46.00           | -20.90         | AVG    |
| 11  | 1.1260             | 37.78             | 0.52                  | 38.30            | 56.00           | -17.70         | QP     |
| 12  | 1.1260             | 24.48             | 0.52                  | 25.00            | 46.00           | -21.00         | AVG    |

## 6. RADIATED ELECTROMAGNETIC DISTURBANCE

### 6.1 LIMITS

| Frequency (MHz) | Quasi-peak(dBμV/m) |
|-----------------|--------------------|
| 30 ~ 88         | 40                 |
| 88~216          | 43.5               |
| 216 ~ 960       | 46                 |
| Above 960       | 54                 |

**NOTE:** (1) The lower limit shall apply at the transition frequencies.

| Frequency (GHz) | Quasi-peak(dBμV/m) |
|-----------------|--------------------|
| 1 ~ 26.5        | 74                 |
| 1~ 26.5         | 54                 |

### 6.2 TEST PROCEDURES

Test procedures follow ANSI C63.4:2009.

#### Procedure of Preliminary Test

Radiated emission tests shall be made with the receive or transmit antenna located at a horizontal distance of 3 m plus half of the maximum width of the EUT being tested, measured from the centre of the EUT. The tests shall be performed with the equipment configured as closely as possible to its typical, practical operation. Unless stated otherwise, cables and wiring shall be as specified by the manufacturer and the equipment shall be in its housing (or cabinet) with all covers and access panels in place. Any deviation from normal EUT operating conditions shall be included in the test report.

The EUT (on a non-conductive support structure, where applicable) shall be placed on a remotely operated turntable, to allow the EUT to be rotated. The height of the EUT above the ground plane shall be according to the following requirements.

- Table-top equipment is placed on a non-conductive set-up table with height  $0,8\text{ m} \pm 0,01\text{ m}$ , ANSI C63.4 specifies the method to determine the impact of the non-conductive set-up table on test results.
- Floor-standing equipment is placed on a non-conductive support, as specified in the applicable product standard. If there are no EUT height placement requirements in the product standard, the EUT shall be placed on a non-conductive support at a height of 5 cm to 15 cm above the ground plane.

Interface cables, loads, and devices should be connected to at least one of each type of the interface ports of the EUT and, where practical, each cable shall be terminated in a device typical for its actual use. Where there are multiple interface ports of the same type, a typical number of these devices shall be connected to devices or loads. It is sufficient to connect only one of the loads, provided that it can be shown, for example by preliminary testing, that the connection of further ports would not significantly increase the level of disturbance (that is, more than 2 dB) or significantly degrade the immunity level.

The test mode(s) described in Item 2.4 were scanned during the preliminary test. After the preliminary scan, we found the test mode described in Item 2.4 producing the highest emission level. The EUT and cable configuration, antenna position, polarization and turntable position of the above highest emission level were recorded for the final test.

### Procedure of Final Test

EUT and support equipment were set up on the turntable as per the configuration with highest emission level in the preliminary test. The Analyzer / Receiver scanned from 30MHz to 1000MHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level. Record at least six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and only QP reading is presented. The test data of the worst-case condition(s) was recorded.

### Procedure of Final Test

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test. A scan was taken on both power lines, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. The test data of the worst-case condition(s) was recorded.

## 6.3 TEST SETUP

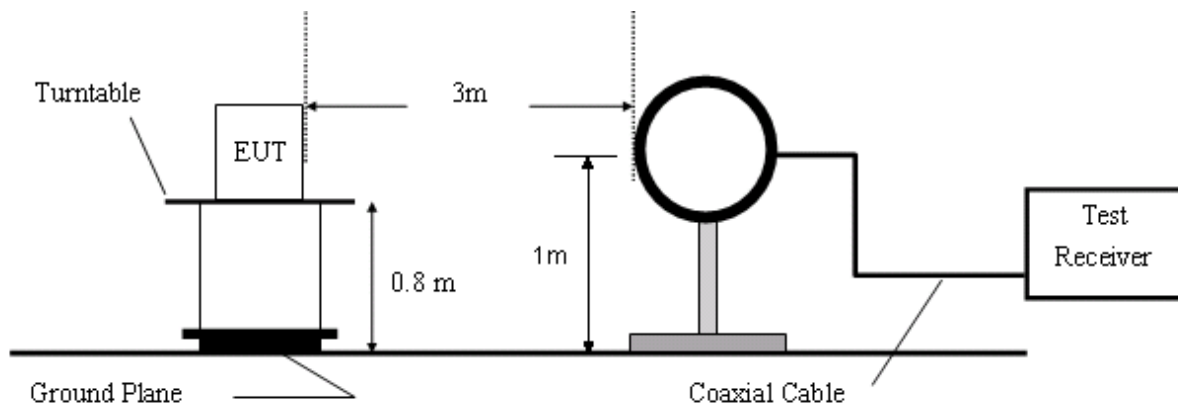


Figure 1. 9KHz to 30MHz radiated emissions test configuration

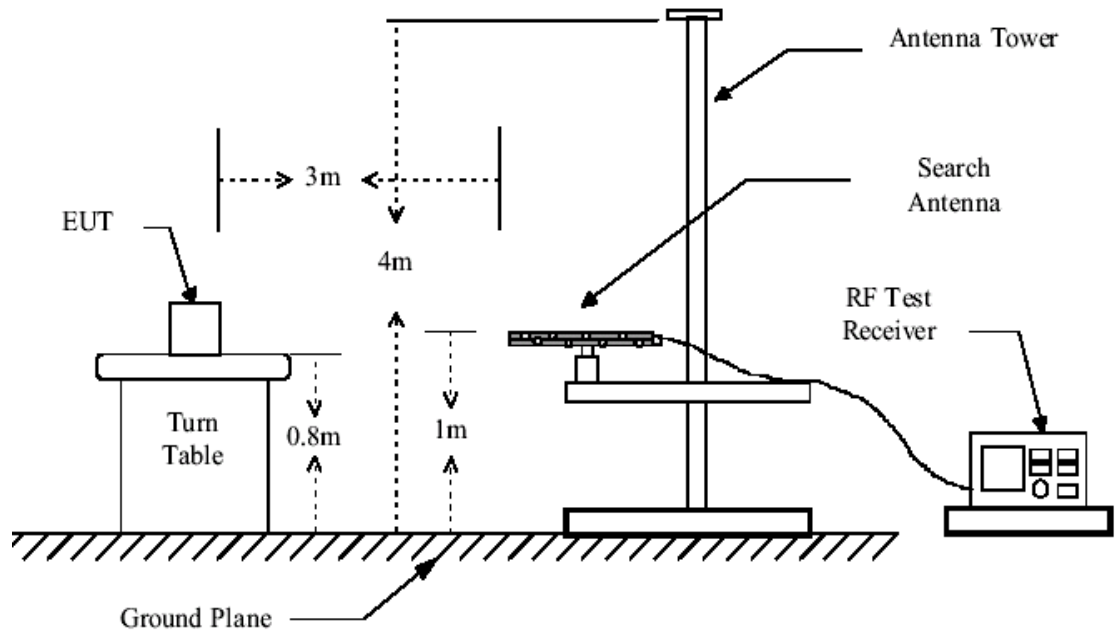


Figure 2. 30MHz to 1GHz radiated emissions test configuration

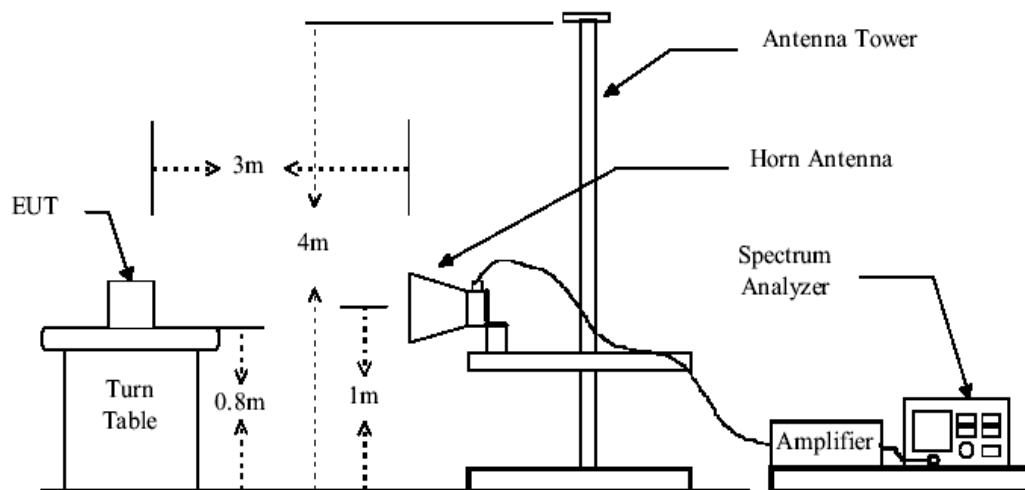
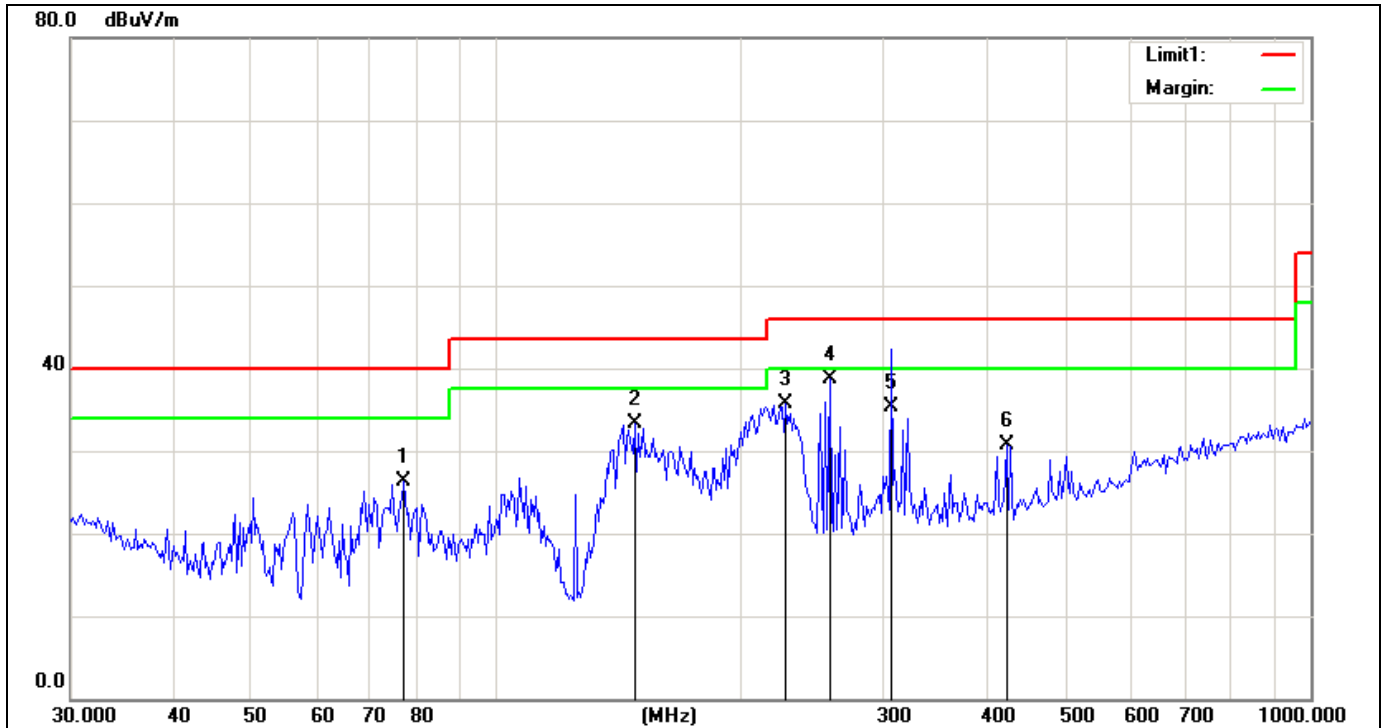


Figure 3. Above 1GHz radiated emissions test configuration

## 6.4 TEST RESULTS

|                  |                            |               |              |
|------------------|----------------------------|---------------|--------------|
| Project No.:     | ZJ00029362                 | Polarization: | Horizontal   |
| Standard:        | (RE)FCC PART 15 class B 3m | Power Source: | AC 120V/60Hz |
| Test item:       | Radiation Test             | Date:         | 2013-6-14    |
| Temp./Hum.(%RH): | 23/55%RH                   | Time:         | 9:15:32      |
| EUT:             | Blu-RAY DISC SYSTEM        | Distance:     | 3m           |
| Model:           | BDS 580                    | Test Result:  | Pass         |
| Note:            | 802.11B 2412               |               |              |

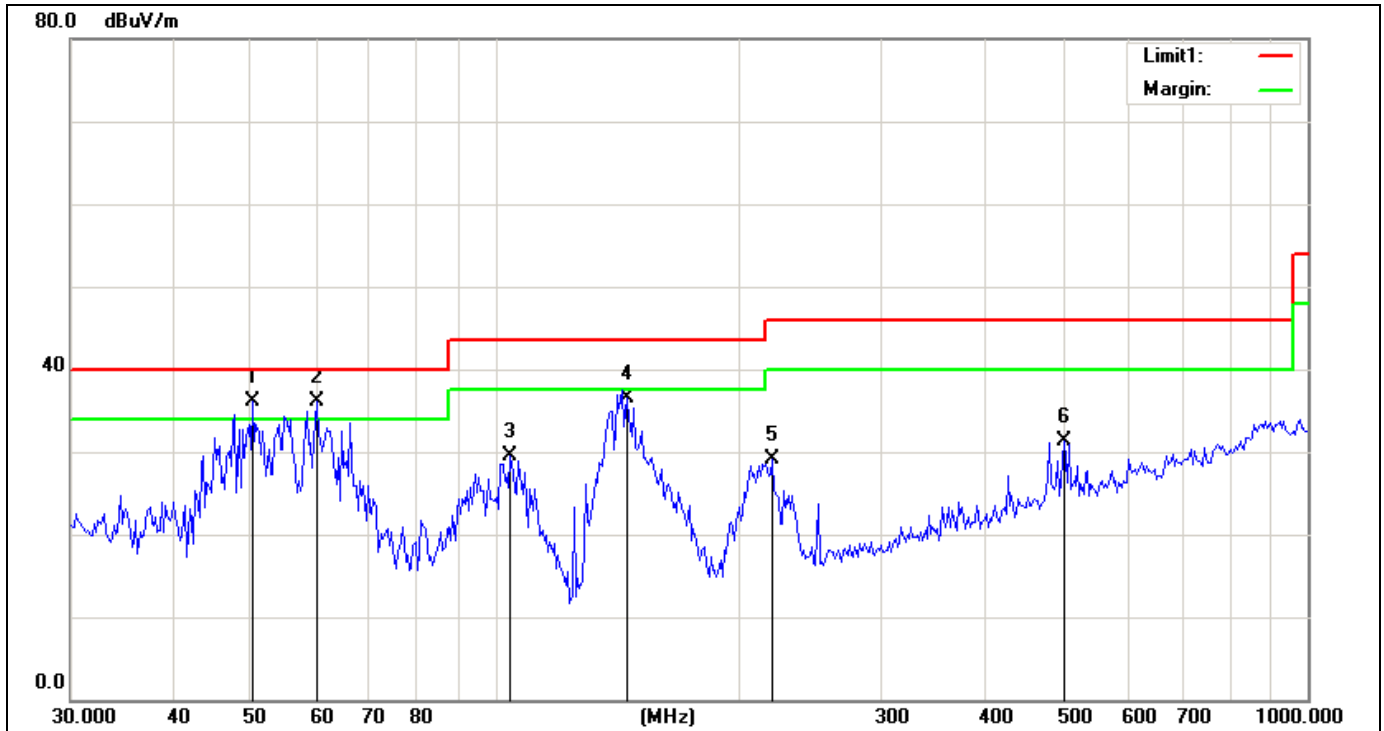


| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 77.1129            | 18.07               | 8.30                    | 26.37              | 40.00             | -13.63         | QP     |
| 2   | 147.9879           | 23.42               | 9.94                    | 33.36              | 43.50             | -10.14         | QP     |
| 3   | 226.8324           | 22.94               | 12.81                   | 35.75              | 46.00             | -10.25         | QP     |
| 4   | 256.6826           | 24.95               | 13.85                   | 38.80              | 46.00             | -7.20          | QP     |
| 5   | 305.5288           | 19.88               | 15.38                   | 35.26              | 46.00             | -10.74         | QP     |
| 6   | 423.2548           | 12.44               | 18.34                   | 30.78              | 46.00             | -15.22         | QP     |

Emission above 1GHz:

| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 2022.306           | 41.71               | 14.19                   | 55.90              | 74.00             | -18.10         | peak   |
| 2   | 2022.306           | 33.60               | 14.19                   | 47.79              | 54.00             | -6.21          | AVG    |
| 3   | 2511.279           | 36.40               | 17.10                   | 53.50              | 74.00             | -20.50         | peak   |
| 4   | 2511.279           | 20.50               | 17.10                   | 37.60              | 54.00             | -16.40         | AVG    |
| 5   | 12826.912          | 30.28               | 27.61                   | 57.89              | 74.00             | -16.11         | peak   |
| 6   | 12826.912          | 11.79               | 27.61                   | 39.40              | 54.00             | -14.60         | AVG    |
| 7   | 17591.230          | 30.98               | 35.62                   | 66.60              | 74.00             | -7.40          | peak   |
| 8   | 17591.230          | 13.48               | 35.62                   | 49.10              | 54.00             | -4.90          | AVG    |

|                         |                                   |                      |                     |
|-------------------------|-----------------------------------|----------------------|---------------------|
| <b>Project No.:</b>     | <b>ZJ00029362</b>                 | <b>Polarization:</b> | <b>Vertical</b>     |
| <b>Standard:</b>        | <b>(RE)FCC PART 15 class B 3m</b> | <b>Power Source:</b> | <b>AC 120V/60Hz</b> |
| <b>Test item:</b>       | <b>Radiation Test</b>             | <b>Date:</b>         | <b>2013-6-14</b>    |
| <b>Temp./Hum.(%RH):</b> | <b>23/55%RH</b>                   | <b>Time:</b>         | <b>8:56:09</b>      |
| <b>EUT:</b>             | <b>Blu-RAY DISC SYSTEM</b>        | <b>Distance:</b>     | <b>3m</b>           |
| <b>Model:</b>           | <b>BDS 580</b>                    | <b>Test Result:</b>  | <b>Pass</b>         |
| <b>Note:</b>            | <b>802.11B 2412</b>               |                      |                     |

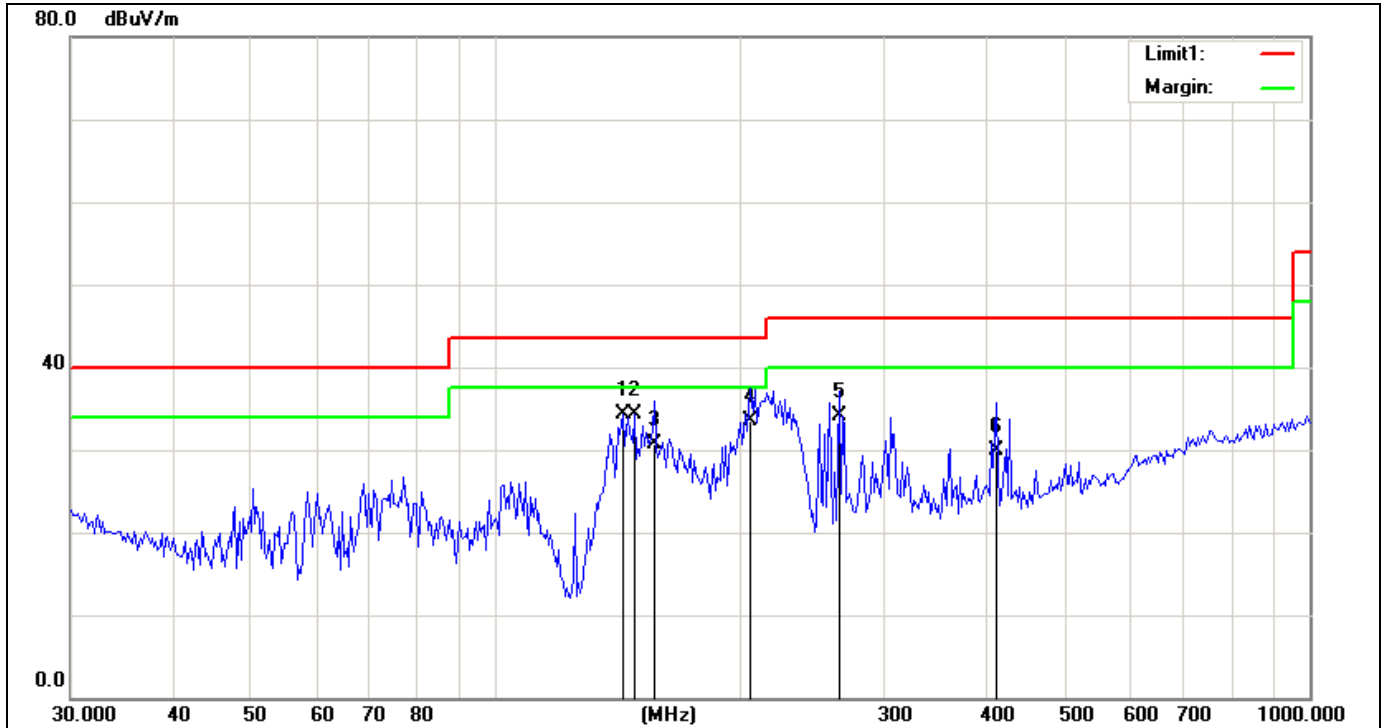


| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 50.3092            | 26.34               | 9.68                    | 36.02              | 40.00             | -3.98          | QP     |
| 2   | 60.2205            | 28.17               | 8.01                    | 36.18              | 40.00             | -3.82          | QP     |
| 3   | 104.4515           | 19.76               | 9.77                    | 29.53              | 43.50             | -13.97         | QP     |
| 4   | 145.5140           | 26.80               | 9.70                    | 36.50              | 43.50             | -7.00          | QP     |
| 5   | 219.3118           | 16.62               | 12.45                   | 29.07              | 46.00             | -16.93         | QP     |
| 6   | 500.9763           | 11.45               | 19.79                   | 31.24              | 46.00             | -14.76         | QP     |

## Emission above 1GHz:

| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 1594.497           | 41.16               | 12.14                   | 53.30              | 74.00             | -20.70         | peak   |
| 2   | 1594.497           | 35.20               | 12.14                   | 47.34              | 54.00             | -6.66          | AVG    |
| 3   | 2022.306           | 30.61               | 14.19                   | 44.80              | 74.00             | -29.20         | peak   |
| 4   | 2022.306           | 22.40               | 14.19                   | 36.59              | 54.00             | -17.41         | AVG    |
| 5   | 12826.912          | 29.54               | 27.61                   | 57.15              | 74.00             | -16.85         | peak   |
| 6   | 12826.912          | 11.79               | 27.61                   | 39.40              | 54.00             | -14.60         | AVG    |
| 7   | 16801.328          | 30.78               | 34.94                   | 65.72              | 74.00             | -8.28          | peak   |
| 8   | 16801.328          | 12.96               | 34.94                   | 47.90              | 54.00             | -6.10          | AVG    |

|                         |                                   |                      |                     |
|-------------------------|-----------------------------------|----------------------|---------------------|
| <b>Project No.:</b>     | <b>ZJ00029362</b>                 | <b>Polarization:</b> | <b>Horizontal</b>   |
| <b>Standard:</b>        | <b>(RE)FCC PART 15 class B 3m</b> | <b>Power Source:</b> | <b>AC 120V/60Hz</b> |
| <b>Test item:</b>       | <b>Radiation Test</b>             | <b>Date:</b>         | <b>2013-6-14</b>    |
| <b>Temp./Hum.(%RH):</b> | <b>23/55%RH</b>                   | <b>Time:</b>         | <b>8:42:02</b>      |
| <b>EUT:</b>             | <b>Blu-RAY DISC SYSTEM</b>        | <b>Distance:</b>     | <b>3m</b>           |
| <b>Model:</b>           | <b>BDS 580</b>                    | <b>Test Result:</b>  | <b>Pass</b>         |
| <b>Note:</b>            | <b>802.11B 2437</b>               |                      |                     |

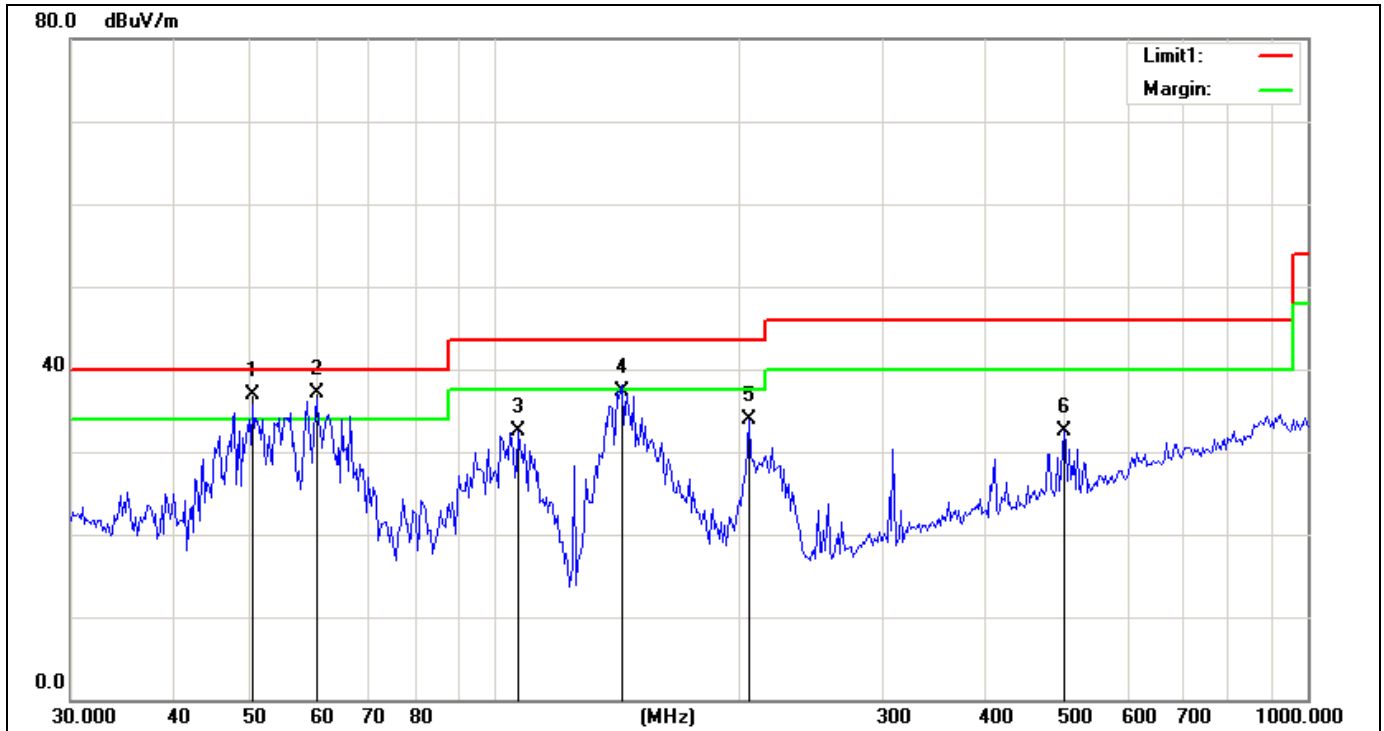


| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 143.0814           | 24.75               | 9.47                    | 34.22              | 43.50             | -9.28          | QP     |
| 2   | 147.9879           | 24.33               | 9.94                    | 34.27              | 43.50             | -9.23          | QP     |
| 3   | 156.5422           | 20.30               | 10.50                   | 30.80              | 43.50             | -12.70         | QP     |
| 4   | 205.0104           | 21.94               | 11.66                   | 33.60              | 43.50             | -9.90          | QP     |
| 5   | 263.9970           | 20.18               | 14.02                   | 34.20              | 46.00             | -11.80         | QP     |
| 6   | 411.5279           | 11.72               | 18.28                   | 30.00              | 46.00             | -16.00         | QP     |

Emission above 1GHz:

| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 1864.982           | 42.75               | 13.58                   | 56.33              | 74.00             | -17.67         | peak   |
| 2   | 1864.982           | 22.11               | 13.58                   | 35.69              | 54.00             | -18.31         | AVG    |
| 3   | 2560.387           | 41.78               | 17.64                   | 59.42              | 74.00             | -14.58         | peak   |
| 4   | 2560.387           | 19.77               | 17.64                   | 37.41              | 54.00             | -16.59         | AVG    |
| 5   | 12546.148          | 29.15               | 28.02                   | 57.17              | 74.00             | -16.83         | peak   |
| 6   | 12546.148          | 10.38               | 28.02                   | 38.40              | 54.00             | -15.60         | AVG    |
| 7   | 16849.641          | 31.25               | 35.14                   | 66.39              | 74.00             | -7.61          | peak   |
| 8   | 16849.641          | 14.56               | 35.14                   | 49.70              | 54.00             | -4.30          | AVG    |

|                         |                                   |                      |                     |
|-------------------------|-----------------------------------|----------------------|---------------------|
| <b>Project No.:</b>     | <b>ZJ00029362</b>                 | <b>Polarization:</b> | <b>Vertical</b>     |
| <b>Standard:</b>        | <b>(RE)FCC PART 15 class B 3m</b> | <b>Power Source:</b> | <b>AC 120V/60Hz</b> |
| <b>Test item:</b>       | <b>Radiation Test</b>             | <b>Date:</b>         | <b>2013-6-14</b>    |
| <b>Temp./Hum.(%RH):</b> | <b>22/51%RH</b>                   | <b>Time:</b>         | <b>8:52:12</b>      |
| <b>EUT:</b>             | <b>Blu-RAY DISC SYSTEM</b>        | <b>Distance:</b>     | <b>3m</b>           |
| <b>Model:</b>           | <b>BDS 580</b>                    | <b>Test Result:</b>  | <b>Pass</b>         |
| <b>Note:</b>            | <b>802.11B 2437</b>               |                      |                     |

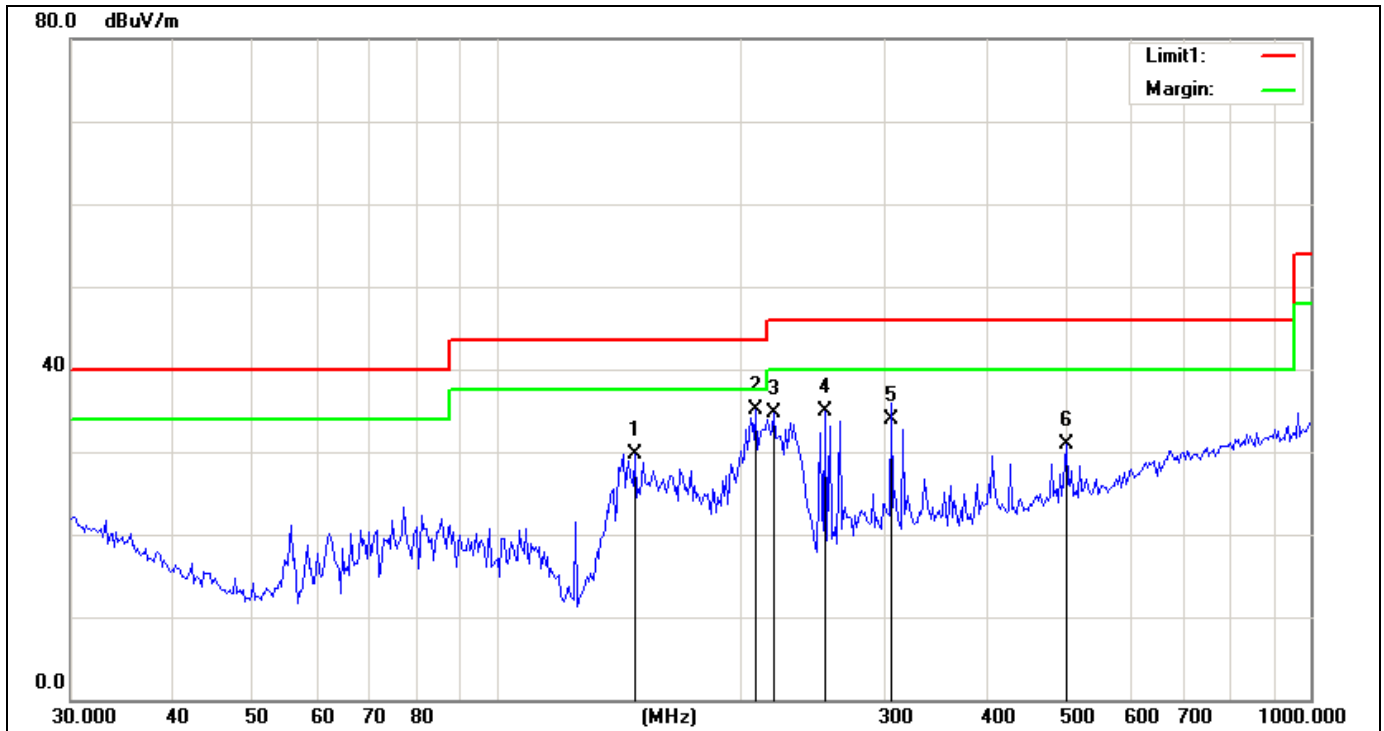


| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 50.3092            | 27.22               | 9.68                    | 36.90              | 40.00             | -3.10          | QP     |
| 2   | 60.2205            | 29.19               | 8.01                    | 37.20              | 40.00             | -2.80          | QP     |
| 3   | 106.8259           | 22.83               | 9.66                    | 32.49              | 43.50             | -11.01         | QP     |
| 4   | 143.0814           | 27.83               | 9.47                    | 37.30              | 43.50             | -6.20          | QP     |
| 5   | 205.0104           | 22.28               | 11.66                   | 33.94              | 43.50             | -9.56          | QP     |
| 6   | 500.9763           | 12.62               | 19.79                   | 32.41              | 46.00             | -13.59         | QP     |

## Emission above 1GHz:

| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 1864.982           | 41.90               | 13.58                   | 55.48              | 74.00             | -18.52         | peak   |
| 2   | 1864.982           | 19.92               | 13.58                   | 33.50              | 54.00             | -20.50         | AVG    |
| 3   | 2022.306           | 40.29               | 14.19                   | 54.48              | 74.00             | -19.52         | peak   |
| 4   | 2022.306           | 21.71               | 14.19                   | 35.90              | 54.00             | -18.10         | AVG    |
| 5   | 13546.148          | 29.15               | 29.02                   | 58.17              | 74.00             | -15.83         | peak   |
| 6   | 13546.148          | 10.38               | 29.02                   | 39.40              | 54.00             | -14.60         | AVG    |
| 7   | 16849.641          | 31.25               | 35.14                   | 66.39              | 74.00             | -7.61          | peak   |
| 8   | 16849.641          | 14.56               | 35.14                   | 49.70              | 54.00             | -4.30          | AVG    |

|                         |                                   |                      |                     |
|-------------------------|-----------------------------------|----------------------|---------------------|
| <b>Project No.:</b>     | <b>ZJ00029362</b>                 | <b>Polarization:</b> | <b>Horizontal</b>   |
| <b>Standard:</b>        | <b>(RE)FCC PART 15 class B 3m</b> | <b>Power Source:</b> | <b>AC 120V/60Hz</b> |
| <b>Test item:</b>       | <b>Radiation Test</b>             | <b>Date:</b>         | <b>2013-6-14</b>    |
| <b>Temp./Hum.(%RH):</b> | <b>22/51%RH</b>                   | <b>Time:</b>         | <b>9:16:41</b>      |
| <b>EUT:</b>             | <b>Blu-RAY DISC SYSTEM</b>        | <b>Distance:</b>     | <b>3m</b>           |
| <b>Model:</b>           | <b>BDS 580</b>                    | <b>Test Result:</b>  | <b>Pass</b>         |
| <b>Note:</b>            | <b>802.11B 2462</b>               |                      |                     |

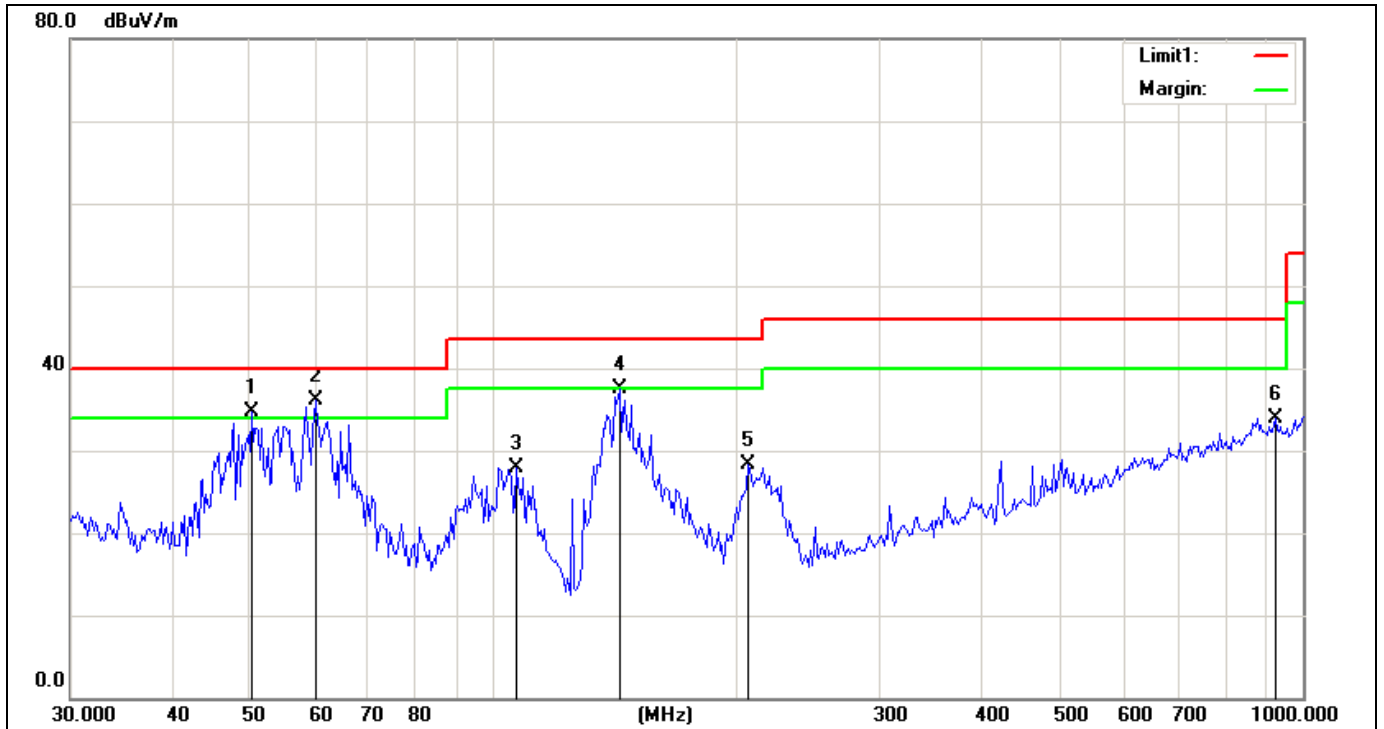


| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-------------|--------|
| 1   | 147.9879        | 19.79            | 9.94                 | 29.73           | 43.50          | -13.77      | QP     |
| 2   | 208.4958        | 23.34            | 11.86                | 35.20           | 43.50          | -8.30       | QP     |
| 3   | 219.3118        | 22.27            | 12.45                | 34.72           | 46.00          | -11.28      | QP     |
| 4   | 253.8139        | 21.14            | 13.77                | 34.91           | 46.00          | -11.09      | QP     |
| 5   | 305.5288        | 18.54            | 15.38                | 33.92           | 46.00          | -12.08      | QP     |
| 6   | 500.9763        | 11.04            | 19.79                | 30.83           | 46.00          | -15.17      | QP     |

## Emission above 1GHz:

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-------------|--------|
| 1   | 1594.496        | 43.06            | 12.14                | 55.20           | 74.00          | -18.80      | peak   |
| 2   | 1594.496        | 19.96            | 12.14                | 32.10           | 54.00          | -21.90      | AVG    |
| 3   | 2022.306        | 38.81            | 14.19                | 53.00           | 74.00          | -21.00      | peak   |
| 4   | 2022.306        | 17.01            | 14.19                | 31.20           | 54.00          | -22.80      | AVG    |
| 5   | 13546.148       | 29.50            | 29.02                | 58.52           | 74.00          | -15.48      | peak   |
| 6   | 13546.148       | 11.18            | 29.02                | 40.20           | 54.00          | -13.80      | AVG    |
| 7   | 16801.328       | 30.02            | 34.94                | 64.96           | 74.00          | -9.04       | peak   |
| 8   | 16801.328       | 12.26            | 34.94                | 47.20           | 54.00          | -6.80       | AVG    |

|                         |                                   |                      |                     |
|-------------------------|-----------------------------------|----------------------|---------------------|
| <b>Project No.:</b>     | <b>ZJ00029362</b>                 | <b>Polarization:</b> | <b>Vertical</b>     |
| <b>Standard:</b>        | <b>(RE)FCC PART 15 class B 3m</b> | <b>Power Source:</b> | <b>AC 120V/60Hz</b> |
| <b>Test item:</b>       | <b>Radiation Test</b>             | <b>Date:</b>         | <b>2013-6-14</b>    |
| <b>Temp./Hum.(%RH):</b> | <b>23/55%RH</b>                   | <b>Time:</b>         | <b>8:57:14</b>      |
| <b>EUT:</b>             | <b>Blu-RAY DISC SYSTEM</b>        | <b>Distance:</b>     | <b>3m</b>           |
| <b>Model:</b>           | <b>BDS 580</b>                    | <b>Test Result:</b>  | <b>Pass</b>         |
| <b>Note:</b>            | <b>802.11b 2462</b>               |                      |                     |

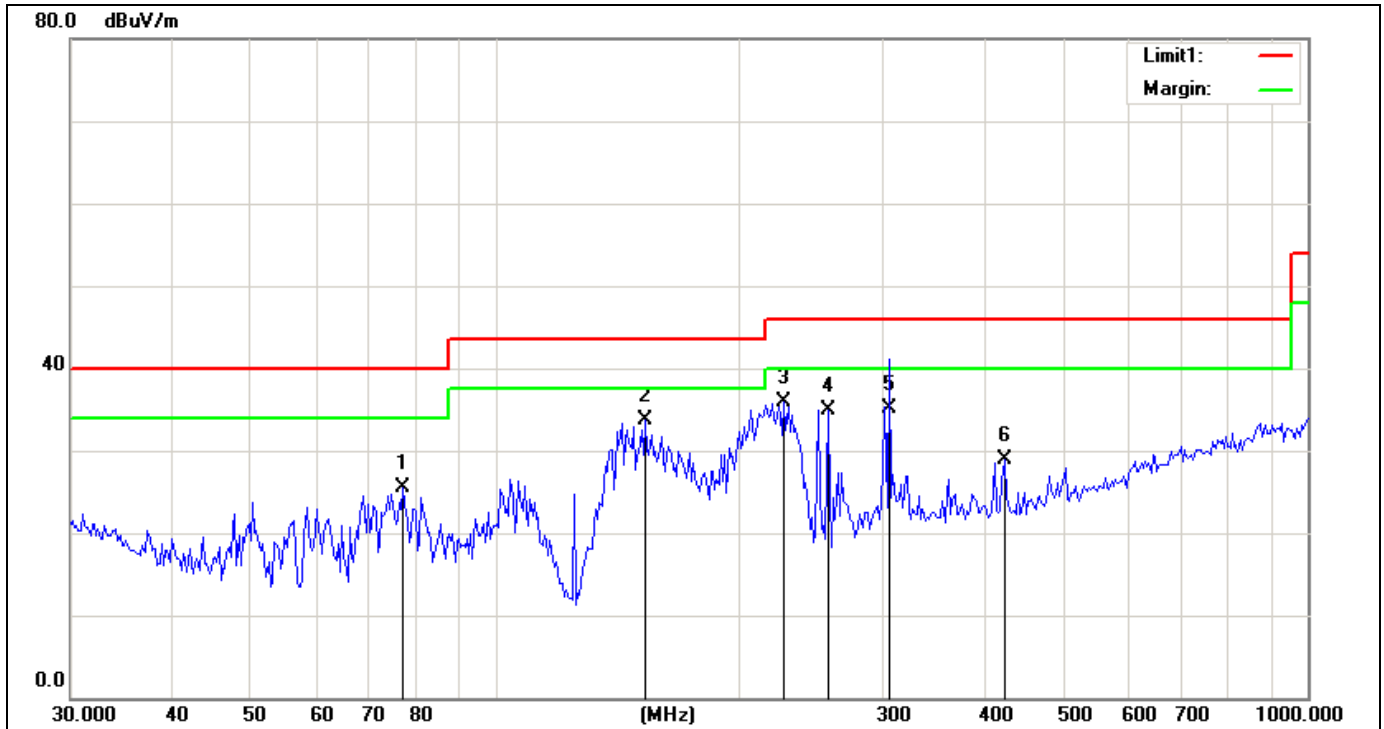


| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 50.3092            | 24.96               | 9.68                    | 34.64              | 40.00             | -5.36          | QP     |
| 2   | 60.2205            | 28.18               | 8.01                    | 36.19              | 40.00             | -3.81          | QP     |
| 3   | 106.8259           | 18.27               | 9.66                    | 27.93              | 43.50             | -15.57         | QP     |
| 4   | 143.0814           | 27.97               | 9.47                    | 37.44              | 43.50             | -6.06          | QP     |
| 5   | 206.1657           | 16.62               | 11.72                   | 28.34              | 43.50             | -15.16         | QP     |
| 6   | 924.3423           | 7.82                | 26.08                   | 33.90              | 46.00             | -12.10         | QP     |

## Emission above 1GHz:

| o. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1  | 1594.497           | 42.16               | 12.14                   | 54.30              | 74.00             | -19.70         | peak   |
| 2  | 1594.497           | 20.76               | 12.14                   | 32.90              | 54.00             | -21.10         | AVG    |
| 3  | 2022.306           | 40.16               | 14.19                   | 54.35              | 74.00             | -19.65         | peak   |
| 4  | 2022.306           | 18.11               | 14.19                   | 32.30              | 54.00             | -21.70         | AVG    |
| 5  | 13546.148          | 30.21               | 29.02                   | 59.23              | 74.00             | -14.77         | peak   |
| 6  | 13546.148          | 11.48               | 29.02                   | 40.50              | 54.00             | -13.50         | AVG    |
| 7  | 16801.328          | 30.65               | 34.94                   | 65.59              | 74.00             | -8.41          | peak   |
| 8  | 16801.328          | 13.36               | 34.94                   | 48.30              | 54.00             | -5.70          | AVG    |

|                         |                                   |                      |                     |
|-------------------------|-----------------------------------|----------------------|---------------------|
| <b>Project No.:</b>     | <b>ZJ00029362</b>                 | <b>Polarization:</b> | <b>Horizontal</b>   |
| <b>Standard:</b>        | <b>(RE)FCC PART 15 class B 3m</b> | <b>Power Source:</b> | <b>AC 120V/60Hz</b> |
| <b>Test item:</b>       | <b>Radiation Test</b>             | <b>Date:</b>         | <b>2013-6-14</b>    |
| <b>Temp./Hum.(%RH):</b> | <b>23/55%RH</b>                   | <b>Time:</b>         | <b>9:14:40</b>      |
| <b>EUT:</b>             | <b>Blu-RAY DISC SYSTEM</b>        | <b>Distance:</b>     | <b>3m</b>           |
| <b>Model:</b>           | <b>BDS 580</b>                    | <b>Test Result:</b>  | <b>Pass</b>         |
| <b>Note:</b>            | <b>802.11g 2412</b>               |                      |                     |

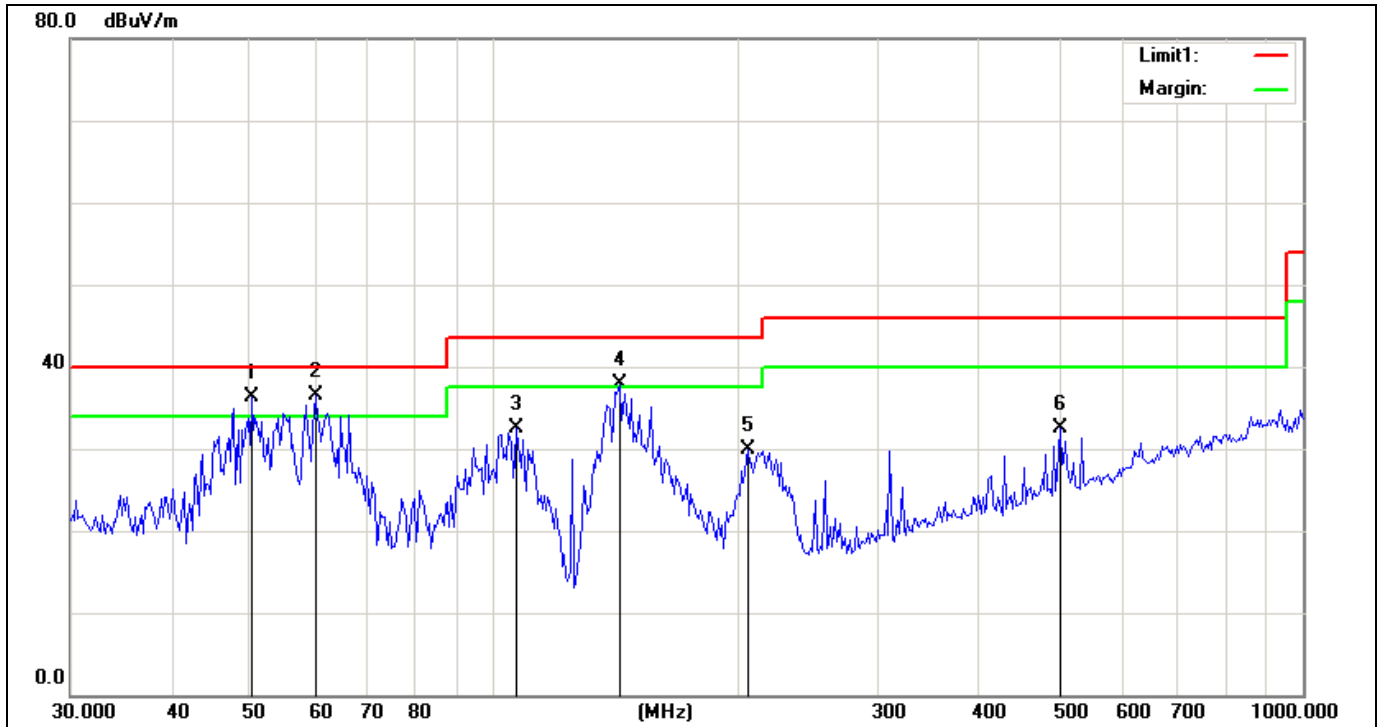


| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-------------|--------|
| 1   | 77.1129         | 17.20            | 8.30                 | 25.50           | 40.00          | -14.50      | QP     |
| 2   | 153.0627        | 23.37            | 10.32                | 33.69           | 43.50          | -9.81       | QP     |
| 3   | 226.8324        | 23.04            | 12.81                | 35.85           | 46.00          | -10.15      | QP     |
| 4   | 256.6826        | 21.13            | 13.85                | 34.98           | 46.00          | -11.02      | QP     |
| 5   | 305.5288        | 19.66            | 15.38                | 35.04           | 46.00          | -10.96      | QP     |
| 6   | 423.2548        | 10.53            | 18.34                | 28.87           | 46.00          | -17.13      | QP     |

## Emission above 1GHz:

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-------------|--------|
| 1   | 1769.033        | 43.66            | 13.16                | 56.82           | 74.00          | -17.18      | peak   |
| 2   | 1769.033        | 25.76            | 13.16                | 38.92           | 74.00          | -35.08      | AVG    |
| 3   | 2515.704        | 37.83            | 17.14                | 54.97           | 74.00          | -19.03      | peak   |
| 4   | 2515.704        | 20.81            | 17.14                | 37.95           | 74.00          | -36.05      | AVG    |
| 5   | 13507.307       | 30.85            | 28.94                | 59.79           | 74.00          | -14.21      | peak   |
| 6   | 13507.307       | 12.36            | 28.94                | 41.30           | 54.00          | -12.70      | AVG    |
| 7   | 16801.328       | 29.93            | 34.94                | 64.87           | 74.00          | -9.13       | peak   |
| 8   | 16801.328       | 12.66            | 34.94                | 47.60           | 54.00          | -6.40       | AVG    |

|                         |                                   |                      |                     |
|-------------------------|-----------------------------------|----------------------|---------------------|
| <b>Project No.:</b>     | <b>ZJ00029362</b>                 | <b>Polarization:</b> | <b>Vertical</b>     |
| <b>Standard:</b>        | <b>(RE)FCC PART 15 class B 3m</b> | <b>Power Source:</b> | <b>AC 120V/60Hz</b> |
| <b>Test item:</b>       | <b>Radiation Test</b>             | <b>Date:</b>         | <b>2013-6-14</b>    |
| <b>Temp./Hum.(%RH):</b> | <b>23/55%RH</b>                   | <b>Time:</b>         | <b>8:59:42</b>      |
| <b>EUT:</b>             | <b>Blu-RAY DISC SYSTEM</b>        | <b>Distance:</b>     | <b>3m</b>           |
| <b>Model:</b>           | <b>BDS 580</b>                    | <b>Test Result:</b>  | <b>Pass</b>         |
| <b>Note:</b>            | <b>802.11g 2412</b>               |                      |                     |

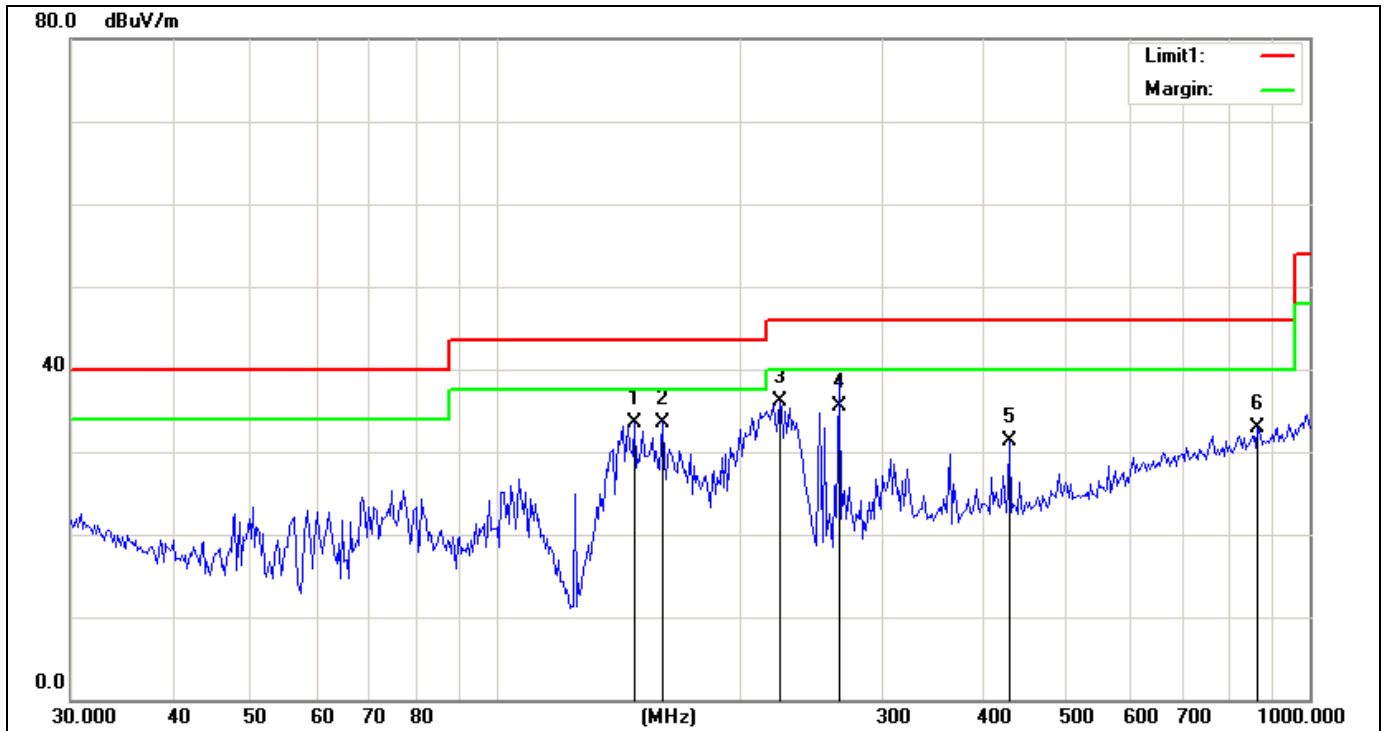


| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-------------|--------|
| 1   | 50.3092         | 26.65            | 9.68                 | 36.33           | 40.00          | -3.67       | QP     |
| 2   | 60.2205         | 28.49            | 8.01                 | 36.50           | 40.00          | -3.50       | QP     |
| 3   | 106.8259        | 22.75            | 9.66                 | 32.41           | 43.50          | -11.09      | QP     |
| 4   | 143.0814        | 28.34            | 9.47                 | 37.81           | 43.50          | -5.69       | QP     |
| 5   | 206.1657        | 18.09            | 11.72                | 29.81           | 43.50          | -13.69      | QP     |
| 6   | 500.9763        | 12.75            | 19.79                | 32.54           | 46.00          | -13.46      | QP     |

## Emission above 1GHz:

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-------------|--------|
| 1   | 1765.921        | 41.81            | 13.14                | 54.95           | 74.00          | -19.05      | peak   |
| 2   | 1765.921        | 30.84            | 13.14                | 43.98           | 54.00          | -10.02      | AVG    |
| 3   | 2022.306        | 42.84            | 14.19                | 57.03           | 74.00          | -16.97      | peak   |
| 4   | 2022.306        | 31.56            | 14.19                | 45.75           | 54.00          | -8.25       | AVG    |
| 5   | 13546.148       | 29.66            | 29.02                | 58.68           | 74.00          | -15.32      | peak   |
| 6   | 13546.148       | 11.18            | 29.02                | 40.20           | 54.00          | -13.80      | AVG    |
| 7   | 16753.154       | 30.50            | 34.75                | 65.25           | 74.00          | -8.75       | peak   |
| 8   | 16753.154       | 12.05            | 34.75                | 46.80           | 54.00          | -7.20       | AVG    |

|                         |                                   |                      |                     |
|-------------------------|-----------------------------------|----------------------|---------------------|
| <b>Project No.:</b>     | <b>ZJ00029362</b>                 | <b>Polarization:</b> | <b>Horizontal</b>   |
| <b>Standard:</b>        | <b>(RE)FCC PART 15 class B 3m</b> | <b>Power Source:</b> | <b>AC 120V/60Hz</b> |
| <b>Test item:</b>       | <b>Radiation Test</b>             | <b>Date:</b>         | <b>2013-6-14</b>    |
| <b>Temp./Hum.(%RH):</b> | <b>23/55%RH</b>                   | <b>Time:</b>         | <b>9:13:53</b>      |
| <b>EUT:</b>             | <b>Blu-RAY DISC SYSTEM</b>        | <b>Distance:</b>     | <b>3m</b>           |
| <b>Model:</b>           | <b>BDS 580</b>                    | <b>Test Result:</b>  | <b>Pass</b>         |
| <b>Note:</b>            | <b>802.11g 2437</b>               |                      |                     |

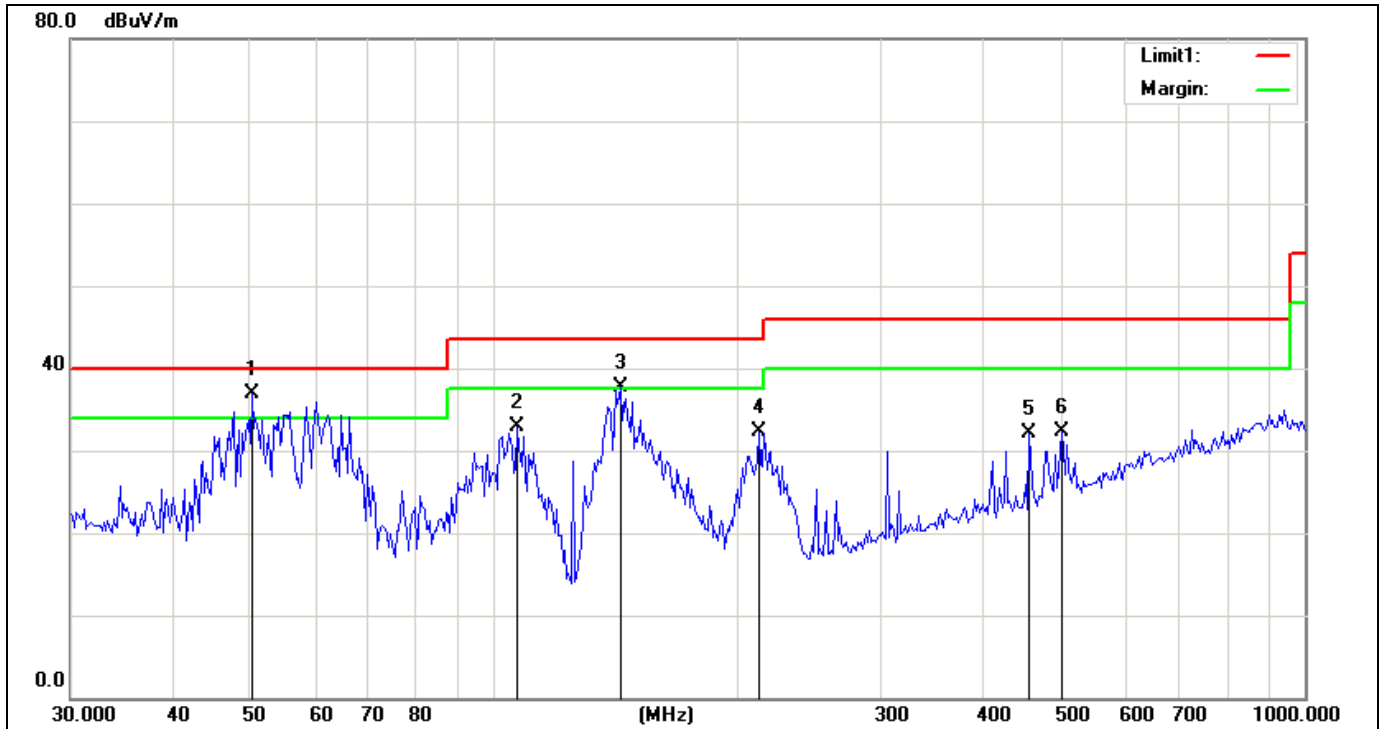


| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-------------|--------|
| 1   | 147.9879        | 23.54            | 9.94                 | 33.48           | 43.50          | -10.02      | QP     |
| 2   | 160.1008        | 22.91            | 10.69                | 33.60           | 43.50          | -9.90       | QP     |
| 3   | 223.0404        | 23.38            | 12.65                | 36.03           | 46.00          | -9.97       | QP     |
| 4   | 263.9970        | 21.39            | 14.02                | 35.41           | 46.00          | -10.59      | QP     |
| 5   | 428.0385        | 12.84            | 18.40                | 31.24           | 46.00          | -14.76      | QP     |
| 6   | 864.0656        | 7.51             | 25.39                | 32.90           | 46.00          | -13.10      | QP     |

## Emission above 1GHz:

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-------------|--------|
| 1   | 1864.982        | 42.30            | 13.58                | 55.88           | 74.00          | -18.12      | peak   |
| 2   | 1864.982        | 20.62            | 13.58                | 34.20           | 54.00          | -19.80      | AVG    |
| 3   | 2520.137        | 36.60            | 17.19                | 53.79           | 74.00          | -20.21      | peak   |
| 4   | 2520.137        | 15.71            | 17.19                | 32.90           | 54.00          | -21.10      | AVG    |
| 5   | 12790.133       | 30.58            | 27.47                | 58.05           | 74.00          | -15.95      | peak   |
| 6   | 12790.133       | 13.23            | 27.47                | 40.70           | 54.00          | -13.30      | AVG    |
| 7   | 17845.610       | 29.76            | 35.96                | 65.72           | 74.00          | -8.28       | peak   |
| 8   | 17845.610       | 13.14            | 35.96                | 49.10           | 54.00          | -4.90       | AVG    |

|                         |                                   |                      |                     |
|-------------------------|-----------------------------------|----------------------|---------------------|
| <b>Project No.:</b>     | <b>ZJ00029362</b>                 | <b>Polarization:</b> | <b>Vertical</b>     |
| <b>Standard:</b>        | <b>(RE)FCC PART 15 class B 3m</b> | <b>Power Source:</b> | <b>AC 120V/60Hz</b> |
| <b>Test item:</b>       | <b>Radiation Test</b>             | <b>Date:</b>         | <b>2013-6-14</b>    |
| <b>Temp./Hum.(%RH):</b> | <b>23/55%RH</b>                   | <b>Time:</b>         | <b>9:00:39</b>      |
| <b>EUT:</b>             | <b>Blu-RAY DISC SYSTEM</b>        | <b>Distance:</b>     | <b>3m</b>           |
| <b>Model:</b>           | <b>BDS 580</b>                    | <b>Test Result:</b>  | <b>Pass</b>         |
| <b>Note:</b>            | <b>802.11g 2437</b>               |                      |                     |

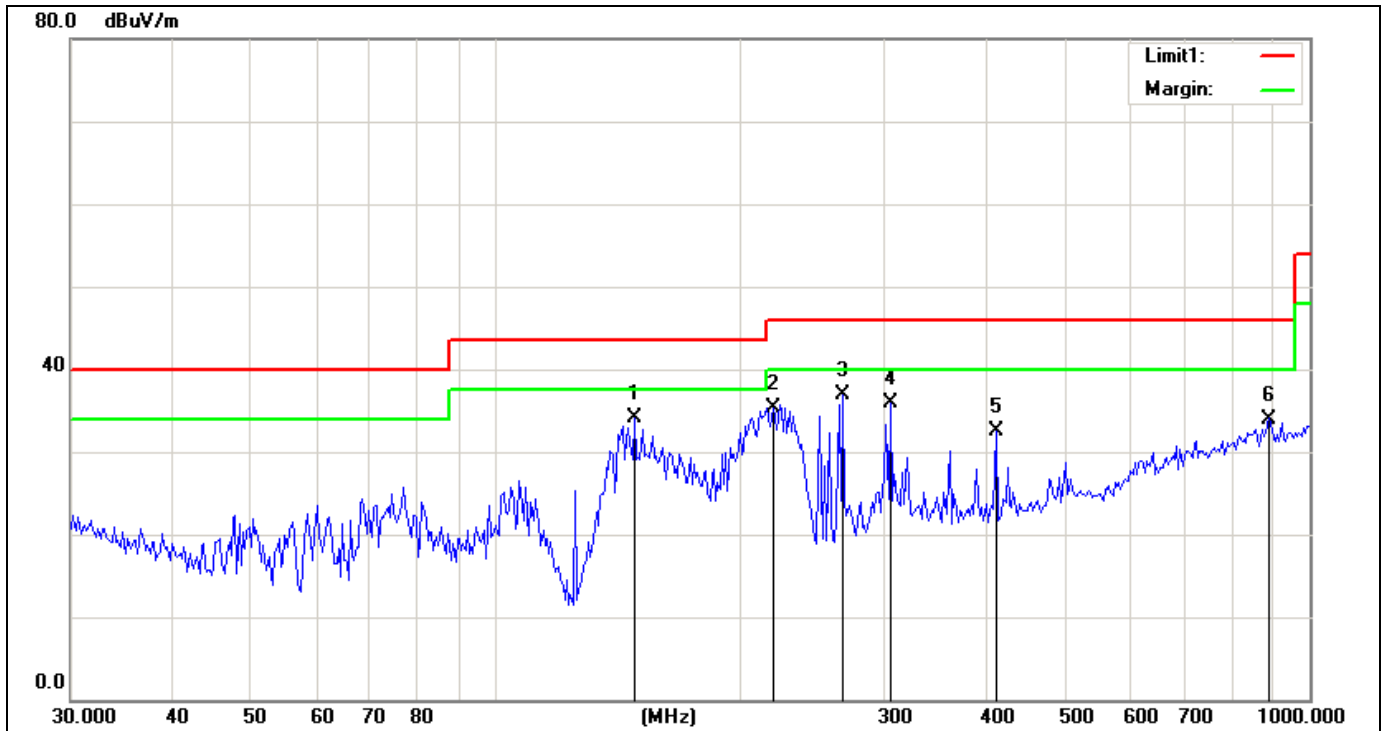


| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-------------|--------|
| 1   | 50.3092         | 27.16            | 9.68                 | 36.84           | 40.00          | -3.16       | QP     |
| 2   | 106.8259        | 23.20            | 9.66                 | 32.86           | 43.50          | -10.64      | QP     |
| 3   | 143.0814        | 28.33            | 9.47                 | 37.80           | 43.50          | -5.70       | QP     |
| 4   | 212.0406        | 20.19            | 12.05                | 32.24           | 43.50          | -11.26      | QP     |
| 5   | 457.8983        | 12.78            | 19.27                | 32.05           | 46.00          | -13.95      | QP     |
| 6   | 500.9762        | 12.54            | 19.79                | 32.33           | 46.00          | -13.67      | QP     |

## Emission above 1GHz:

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-------------|--------|
| 1   | 1864.982        | 41.15            | 13.58                | 54.73           | 74.00          | -19.27      | peak   |
| 2   | 1864.982        | 22.52            | 13.58                | 36.10           | 54.00          | -17.90      | AVG    |
| 3   | 2524.578        | 37.44            | 17.23                | 54.67           | 74.00          | -19.33      | peak   |
| 4   | 2524.578        | 16.68            | 17.23                | 33.91           | 54.00          | -20.09      | AVG    |
| 5   | 13702.631       | 28.15            | 29.40                | 57.55           | 74.00          | -16.45      | peak   |
| 6   | 13702.631       | 9.50             | 29.40                | 38.90           | 54.00          | -15.10      | AVG    |
| 7   | 16849.641       | 30.93            | 35.14                | 66.07           | 74.00          | -7.93       | peak   |
| 8   | 16849.641       | 13.96            | 35.14                | 49.10           | 54.00          | -4.90       | AVG    |

|                         |                                   |                      |                     |
|-------------------------|-----------------------------------|----------------------|---------------------|
| <b>Project No.:</b>     | <b>ZJ00029362</b>                 | <b>Polarization:</b> | <b>Horizontal</b>   |
| <b>Standard:</b>        | <b>(RE)FCC PART 15 class B 3m</b> | <b>Power Source:</b> | <b>AC 120V/60Hz</b> |
| <b>Test item:</b>       | <b>Radiation Test</b>             | <b>Date:</b>         | <b>2013-6-14</b>    |
| <b>Temp./Hum.(%RH):</b> | <b>23/55%RH</b>                   | <b>Time:</b>         | <b>9:13:03</b>      |
| <b>EUT:</b>             | <b>Blu-RAY DISC SYSTEM</b>        | <b>Distance:</b>     | <b>3m</b>           |
| <b>Model:</b>           | <b>BDS 580</b>                    | <b>Test Result:</b>  | <b>Pass</b>         |
| <b>Note:</b>            | <b>802.11 g 2462</b>              |                      |                     |

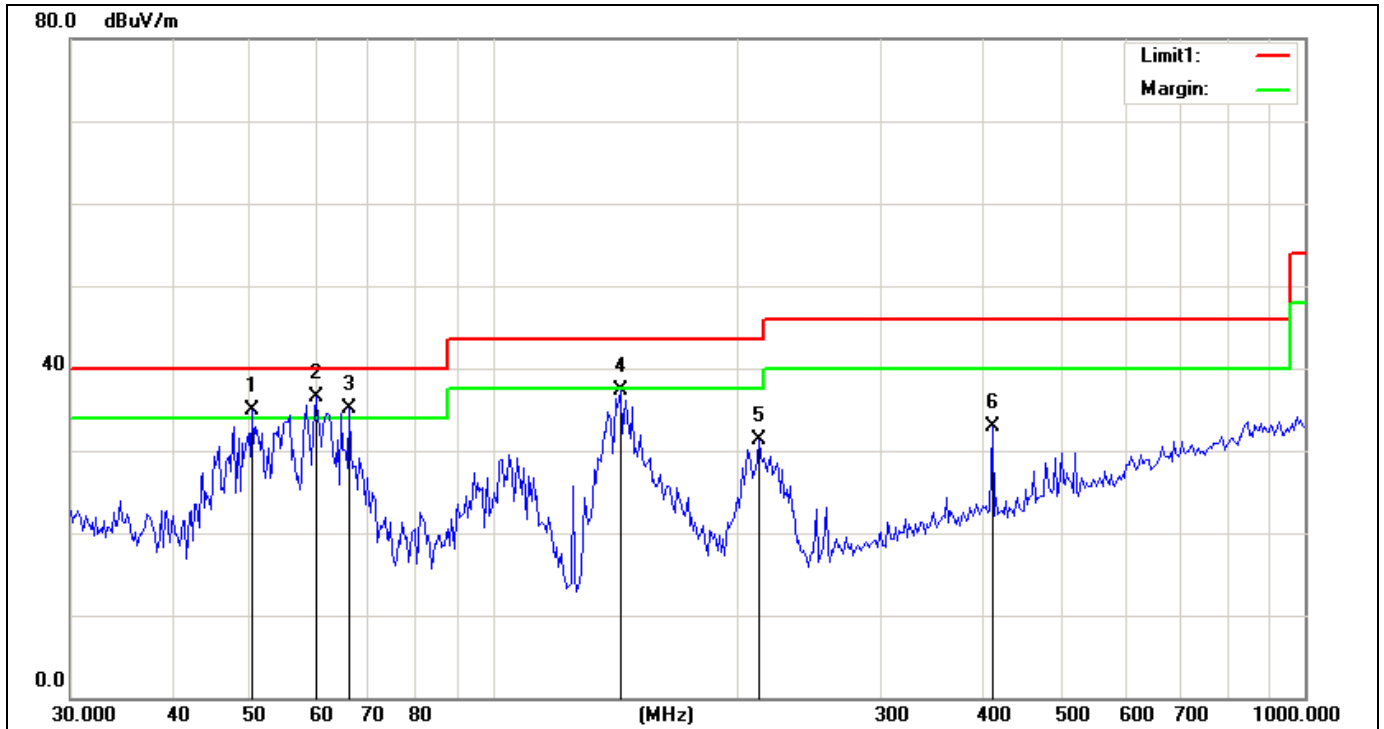


| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-------------|--------|
| 1   | 147.9879        | 24.09            | 9.94                 | 34.03           | 43.50          | -9.47       | QP     |
| 2   | 219.3118        | 22.94            | 12.45                | 35.39           | 46.00          | -10.61      | QP     |
| 3   | 266.9808        | 22.74            | 14.08                | 36.82           | 46.00          | -9.18       | QP     |
| 4   | 305.5288        | 20.48            | 15.38                | 35.86           | 46.00          | -10.14      | QP     |
| 5   | 411.5279        | 14.17            | 18.28                | 32.45           | 46.00          | -13.55      | QP     |
| 6   | 893.6959        | 7.98             | 26.02                | 34.00           | 46.00          | -12.00      | QP     |

## Emission above 1GHz:

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-------------|--------|
| 1   | 1864.982        | 40.42            | 13.58                | 54.00           | 74.00          | -20.00      | peak   |
| 2   | 1864.982        | 19.92            | 13.58                | 33.50           | 54.00          | -20.50      | AVG    |
| 3   | 2619.665        | 36.92            | 18.37                | 55.29           | 74.00          | -18.71      | peak   |
| 4   | 2619.665        | 18.13            | 18.37                | 36.50           | 54.00          | -17.50      | AVG    |
| 5   | 9991.481        | 30.22            | 25.68                | 55.90           | 74.00          | -18.10      | peak   |
| 6   | 9991.481        | 11.82            | 25.68                | 37.50           | 54.00          | -16.50      | AVG    |
| 7   | 16849.641       | 29.51            | 35.14                | 64.65           | 74.00          | -9.35       | peak   |
| 8   | 16849.641       | 12.76            | 35.14                | 47.90           | 54.00          | -6.10       | AVG    |

|                         |                                   |                      |                     |
|-------------------------|-----------------------------------|----------------------|---------------------|
| <b>Project No.:</b>     | <b>ZJ00029362</b>                 | <b>Polarization:</b> | <b>Vertical</b>     |
| <b>Standard:</b>        | <b>(RE)FCC PART 15 class B 3m</b> | <b>Power Source:</b> | <b>AC 120V/60Hz</b> |
| <b>Test item:</b>       | <b>Radiation Test</b>             | <b>Date:</b>         | <b>2013-6-14</b>    |
| <b>Temp./Hum.(%RH):</b> | <b>23/55%RH</b>                   | <b>Time:</b>         | <b>8:58:10</b>      |
| <b>EUT:</b>             | <b>Blu-RAY DISC SYSTEM</b>        | <b>Distance:</b>     | <b>3m</b>           |
| <b>Model:</b>           | <b>BDS 580</b>                    | <b>Test Result:</b>  | <b>Pass</b>         |
| <b>Note:</b>            | <b>802.11 g 2462</b>              |                      |                     |



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-------------|--------|
| 1   | 50.3092         | 25.30            | 9.68                 | 34.98           | 40.00          | -5.02       | QP     |
| 2   | 60.2205         | 28.45            | 8.01                 | 36.46           | 40.00          | -3.54       | QP     |
| 3   | 66.2572         | 27.35            | 7.78                 | 35.13           | 40.00          | -4.87       | QP     |
| 4   | 143.0814        | 27.90            | 9.47                 | 37.37           | 43.50          | -6.13       | QP     |
| 5   | 212.0406        | 19.31            | 12.05                | 31.36           | 43.50          | -12.14      | QP     |
| 6   | 411.5279        | 14.55            | 18.28                | 32.83           | 46.00          | -13.17      | QP     |

## Emission above 1GHz:

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-------------|--------|
| 1   | 1864.982        | 40.54            | 13.58                | 54.12           | 74.00          | -19.88      | peak   |
| 2   | 1864.982        | 21.92            | 13.58                | 35.50           | 54.00          | -18.50      | AVG    |
| 3   | 2551.388        | 37.70            | 17.53                | 55.23           | 74.00          | -18.77      | peak   |
| 4   | 2551.388        | 18.77            | 17.53                | 36.30           | 54.00          | -17.70      | AVG    |
| 5   | 12826.912       | 29.81            | 27.61                | 57.42           | 74.00          | -16.58      | peak   |
| 6   | 12826.912       | 12.19            | 27.61                | 39.80           | 54.00          | -14.20      | AVG    |
| 7   | 16801.328       | 30.45            | 34.94                | 65.39           | 74.00          | -8.61       | peak   |
| 8   | 16801.328       | 11.76            | 34.94                | 46.70           | 54.00          | -7.30       | AVG    |

Note: Below 30MHz, since the radiated emission of the EUT is too weak to be detected.

## 7. SPURIOUS EMISSION AT ANTENNA PORT

### 7.1 LIMITS

FCC 15.247(d) & 15.209

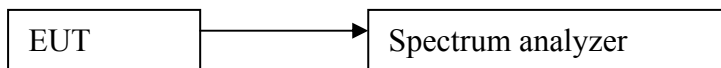
### 7.2 TEST PROCEDURES

Test procedures follow KDB 558074 D01 DTS Measurement Guidance v01.

Remove the antenna from the EUT and then connect a low attenuation cable from the antenna port to the spectrum.

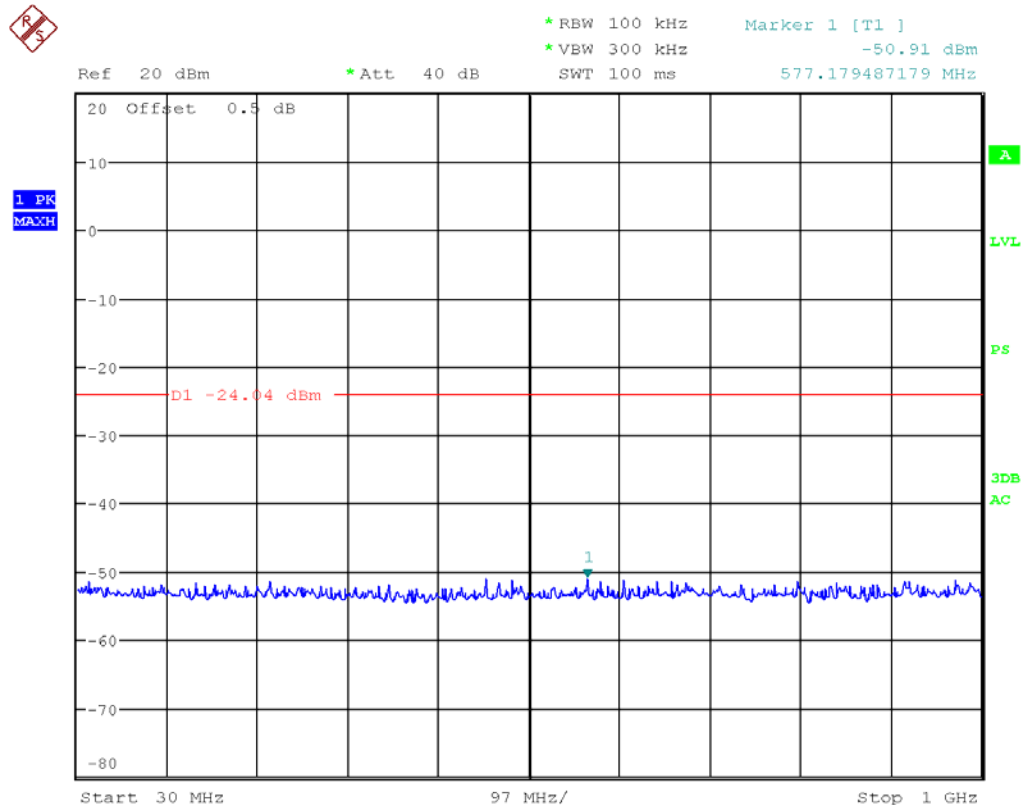
Below 1GHz Set the spectrum analyzer: RBW =100KHz VBW >= RBW, Span = enough to catch the trace. Sweep = auto; Detector Function = RMS. Trace = Max-hold. Allow the trace to stabilize

### 7.3 TEST SETUP

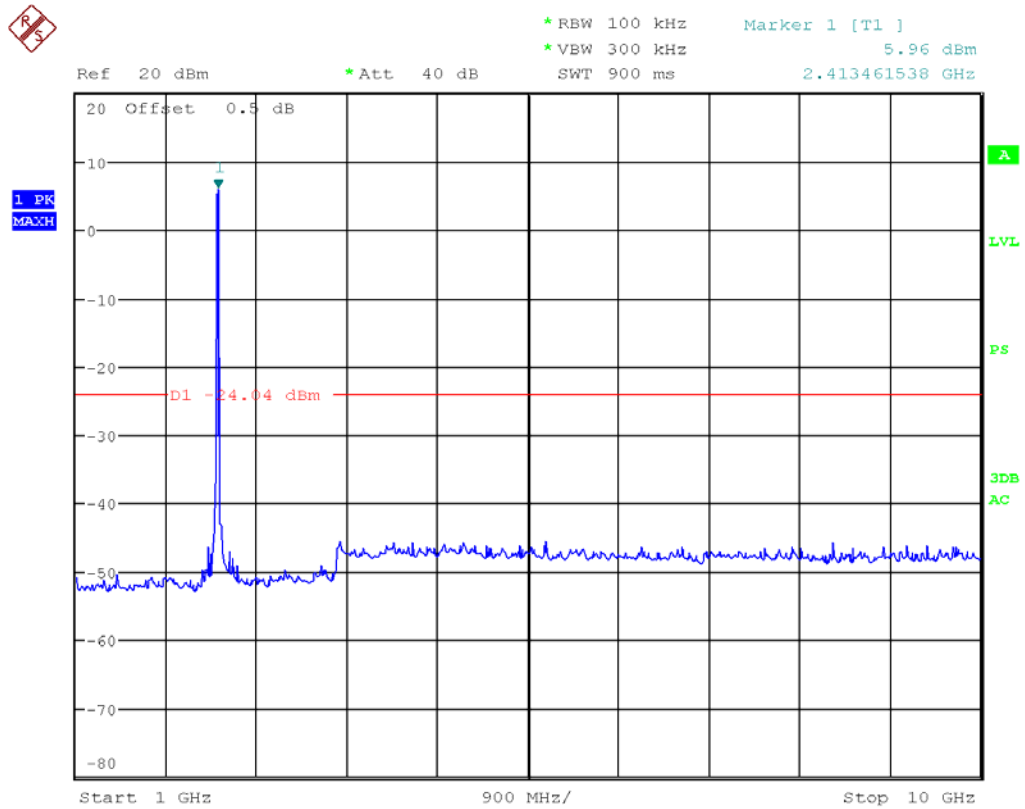


### 7.4 TEST RESULTS

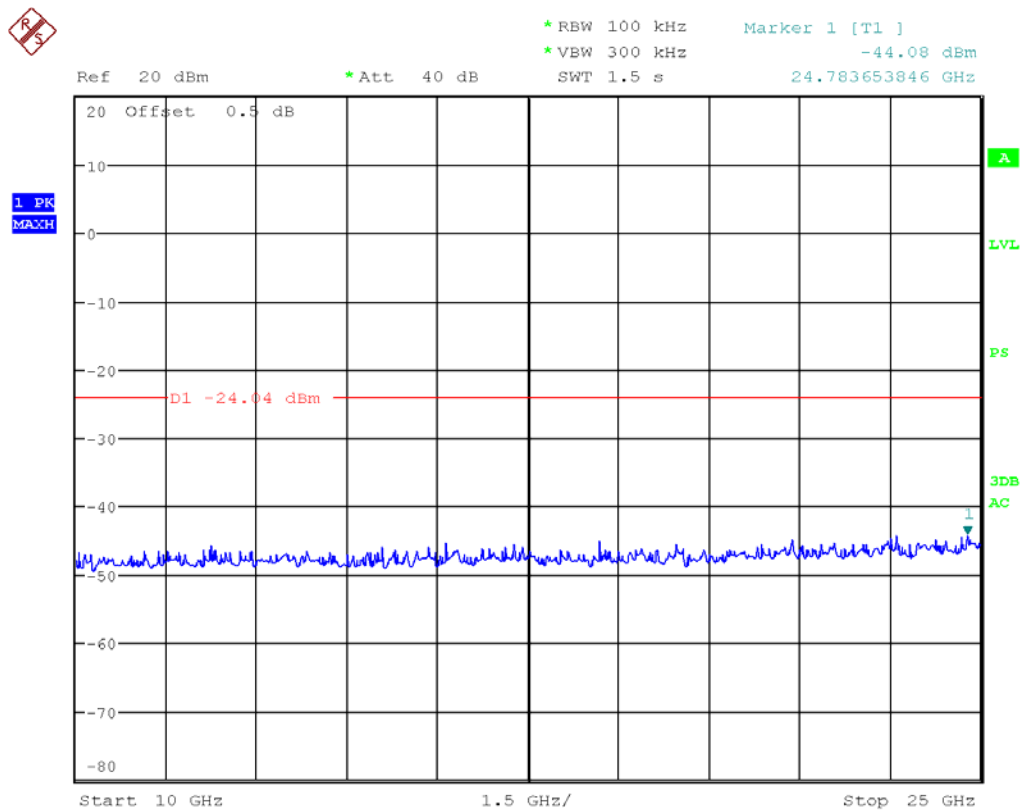
802.11b mode:  
Channel 2412MHz  
30M-1G



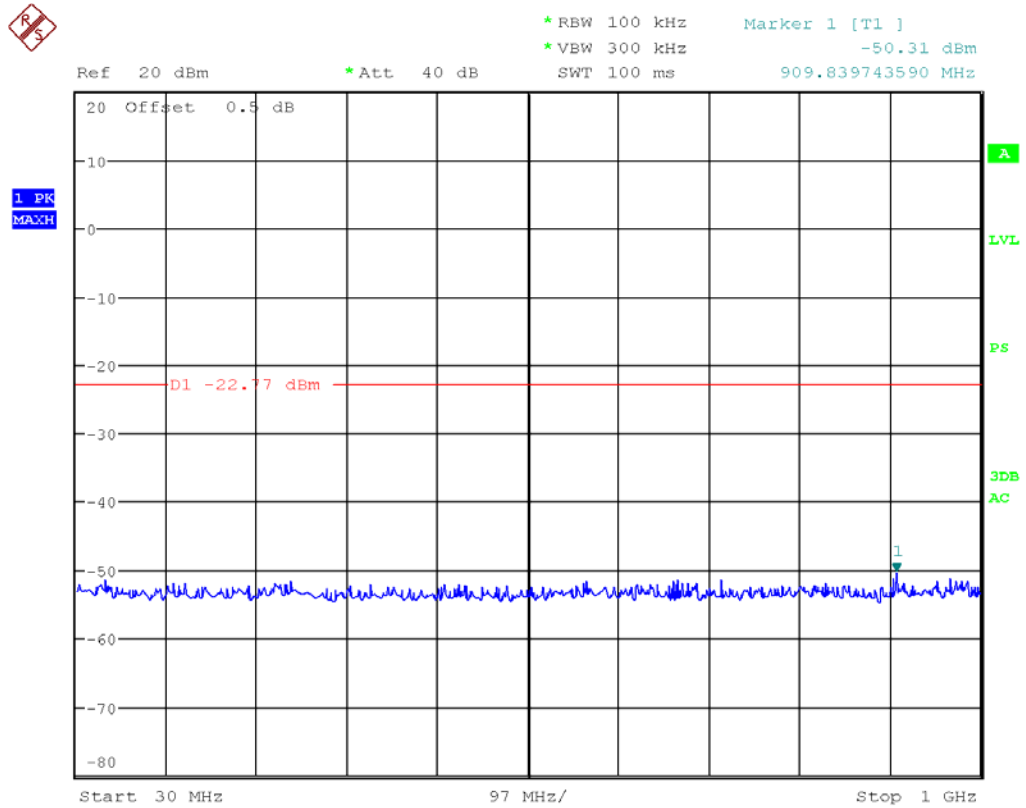
1G-10G



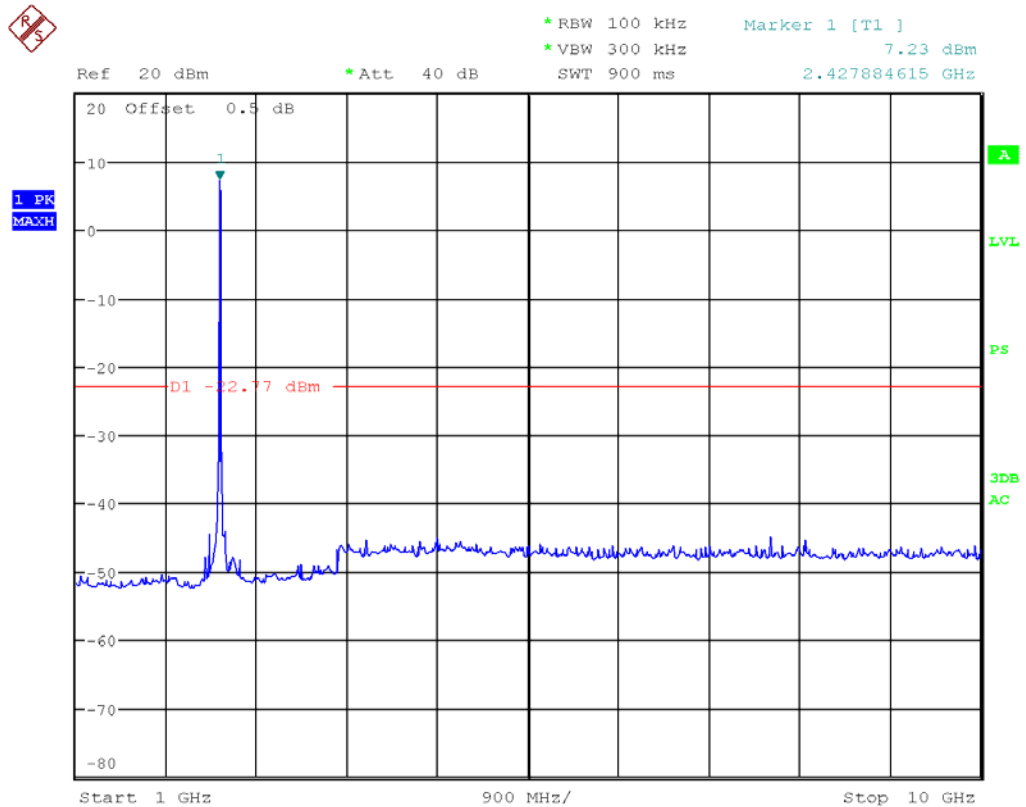
10G-25G



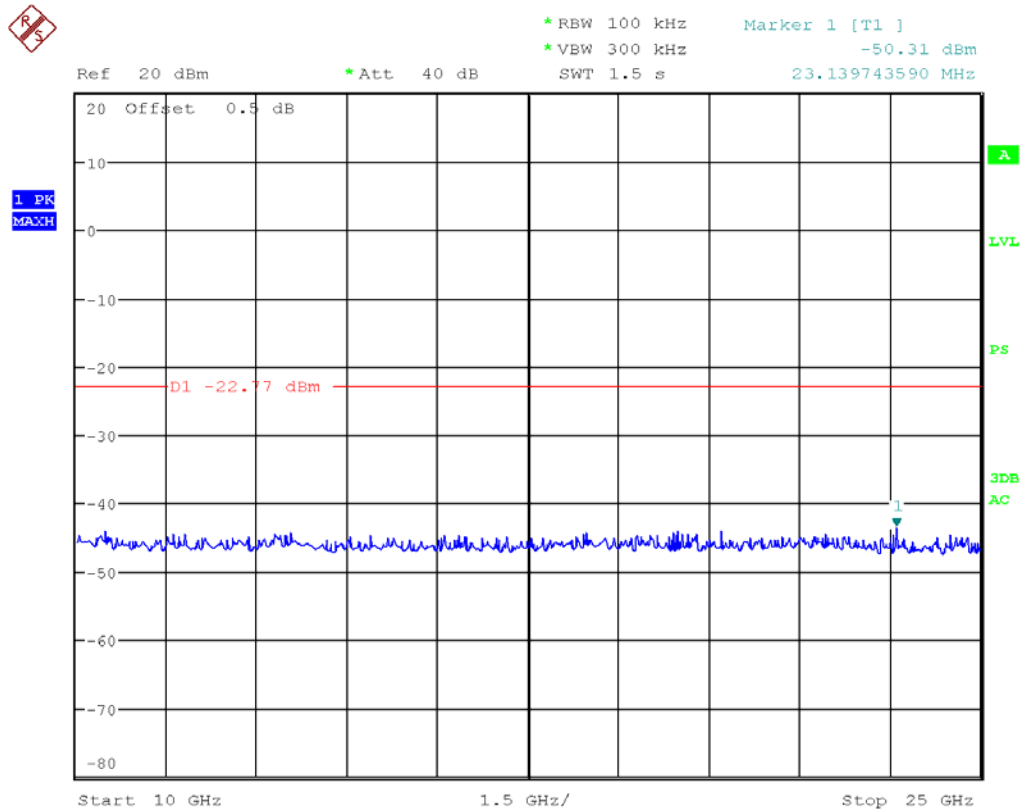
802.11b mode:  
Channel 2437MHz  
30M-1G



1G-10G



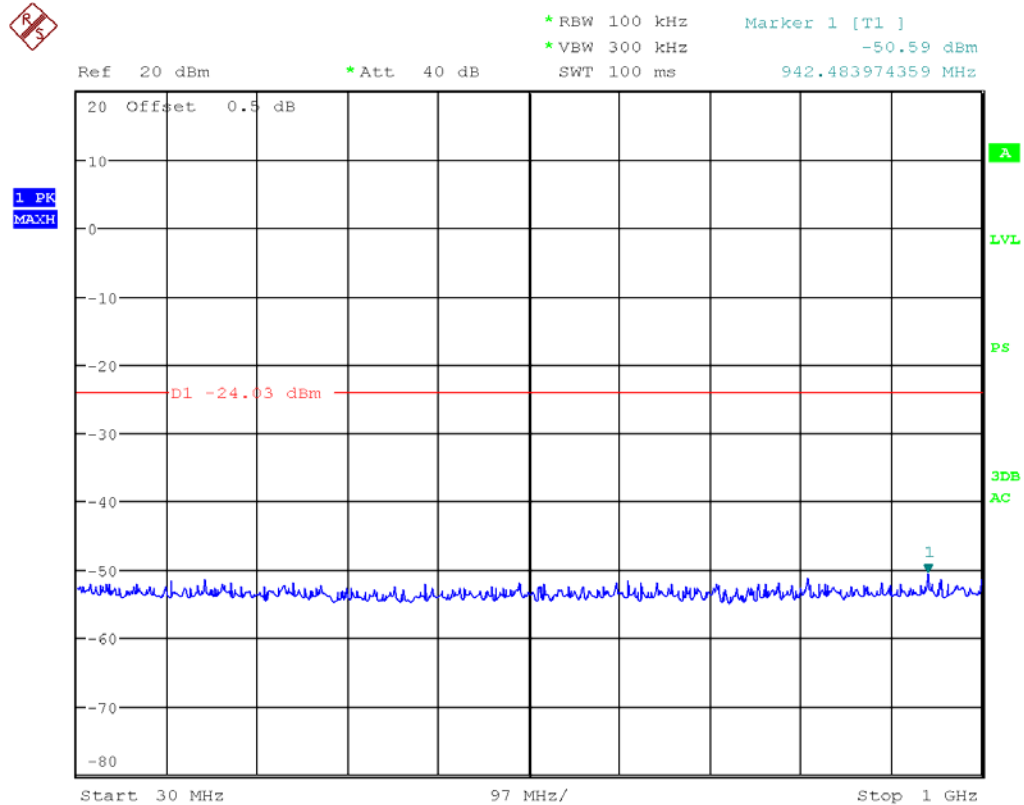
10G-25G



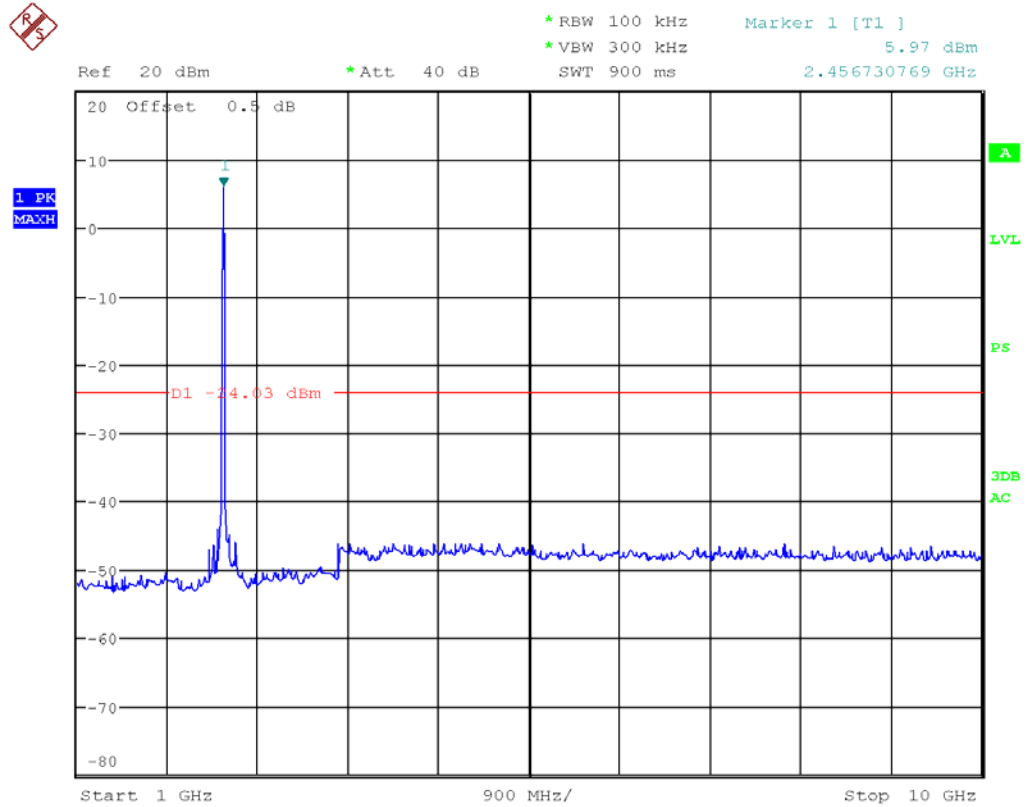
802.11b mode:

Channel 2462MHz

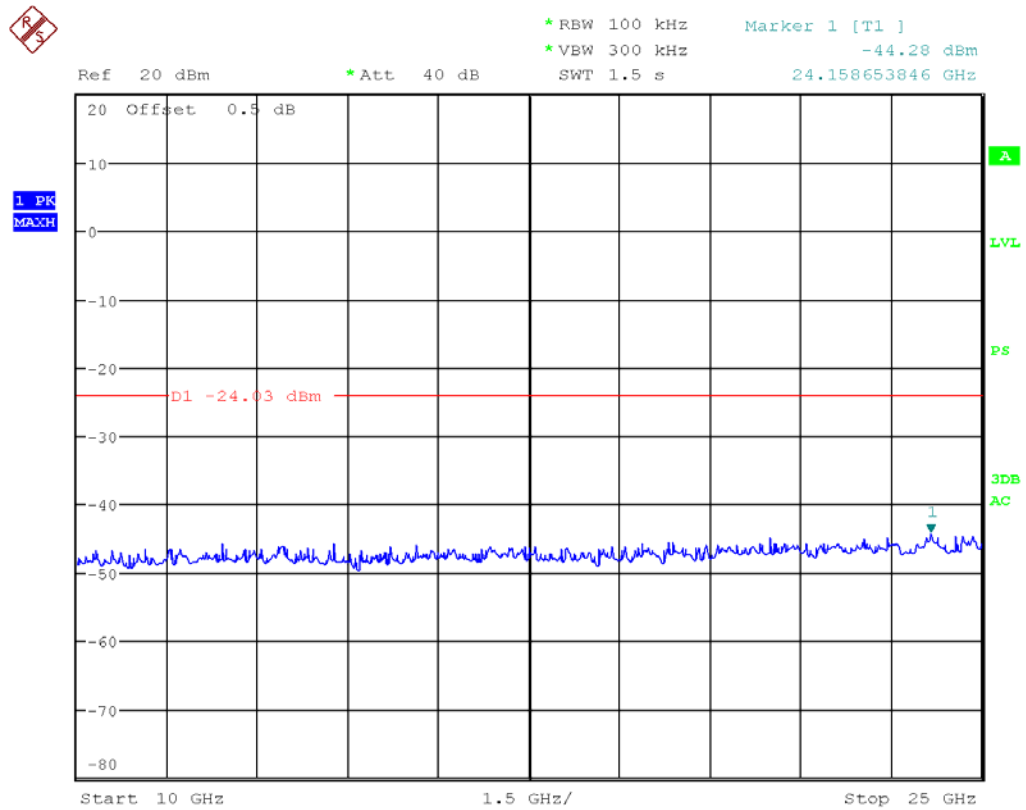
30M-1G



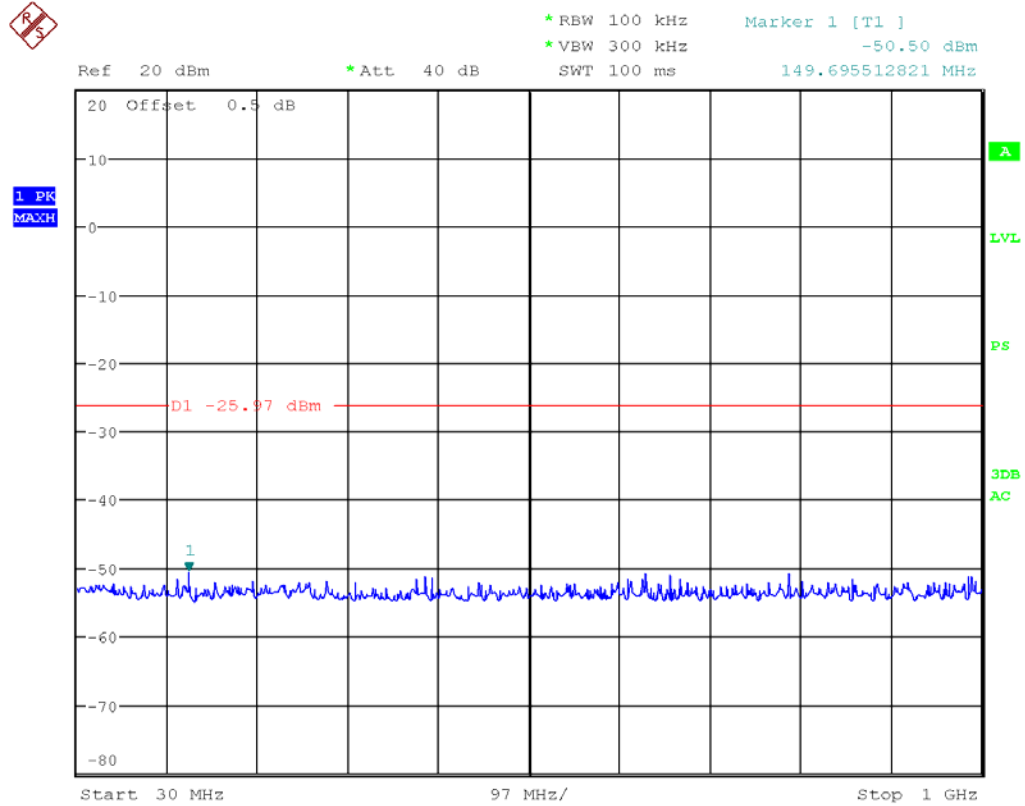
## 1G-10G



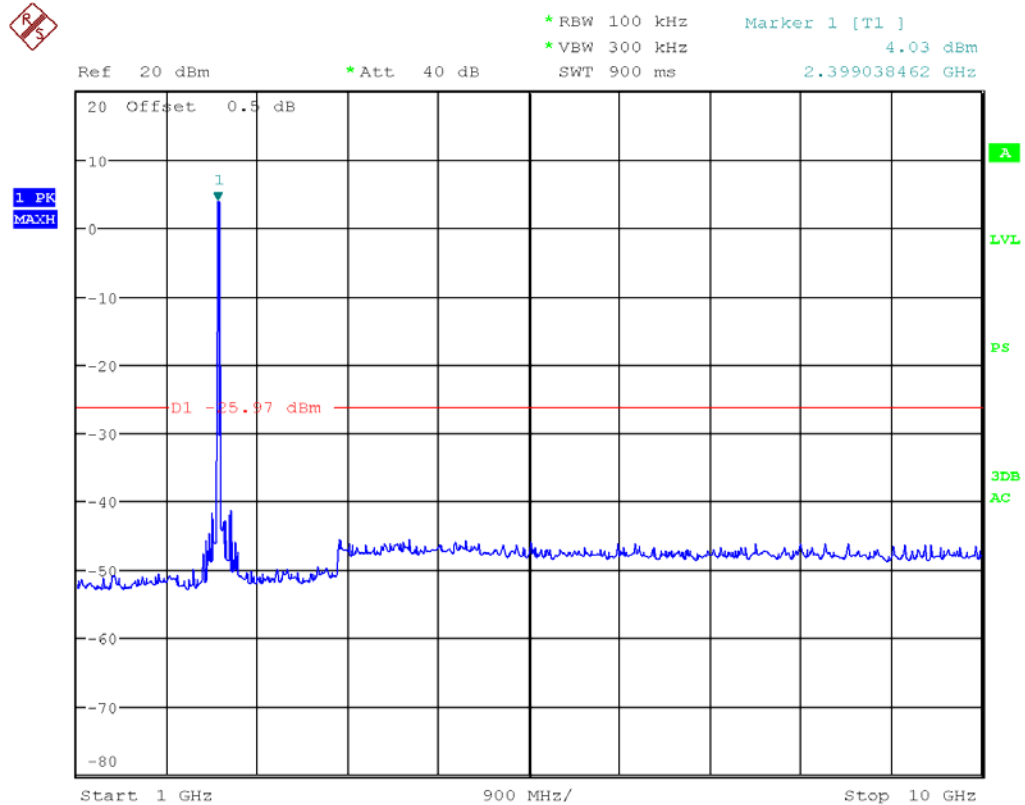
## 10G-25G



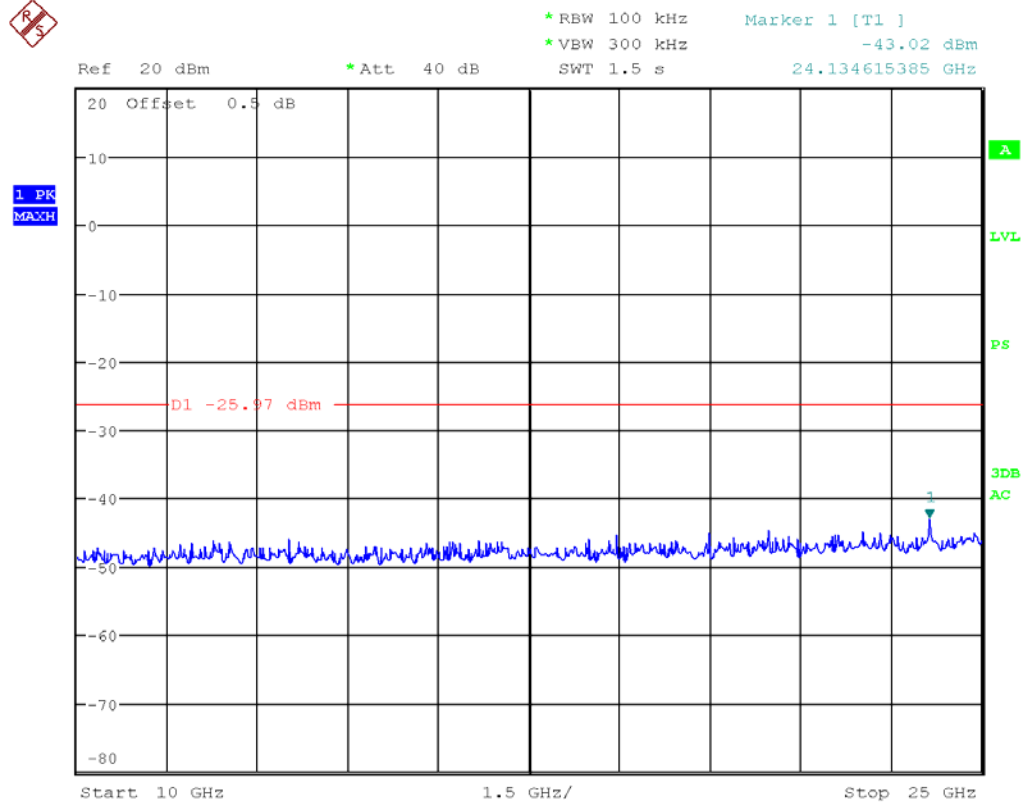
802.11G mode:  
Channel 2412MHz  
30M-1G



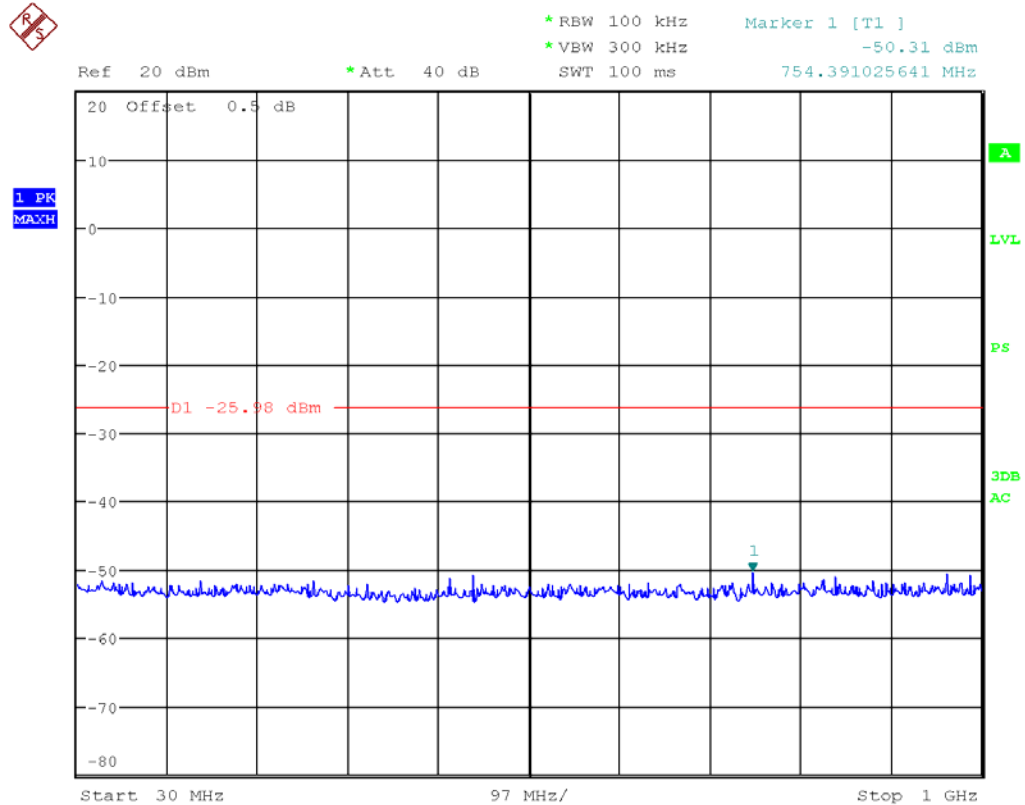
1G-10G



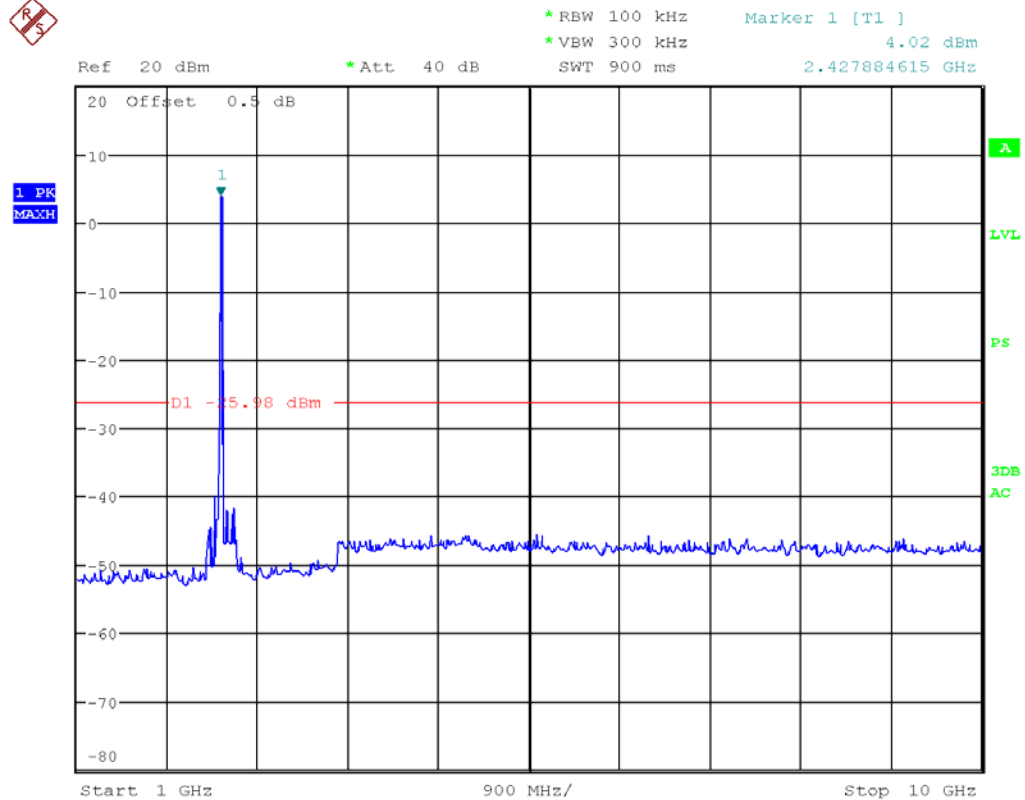
10G-25G



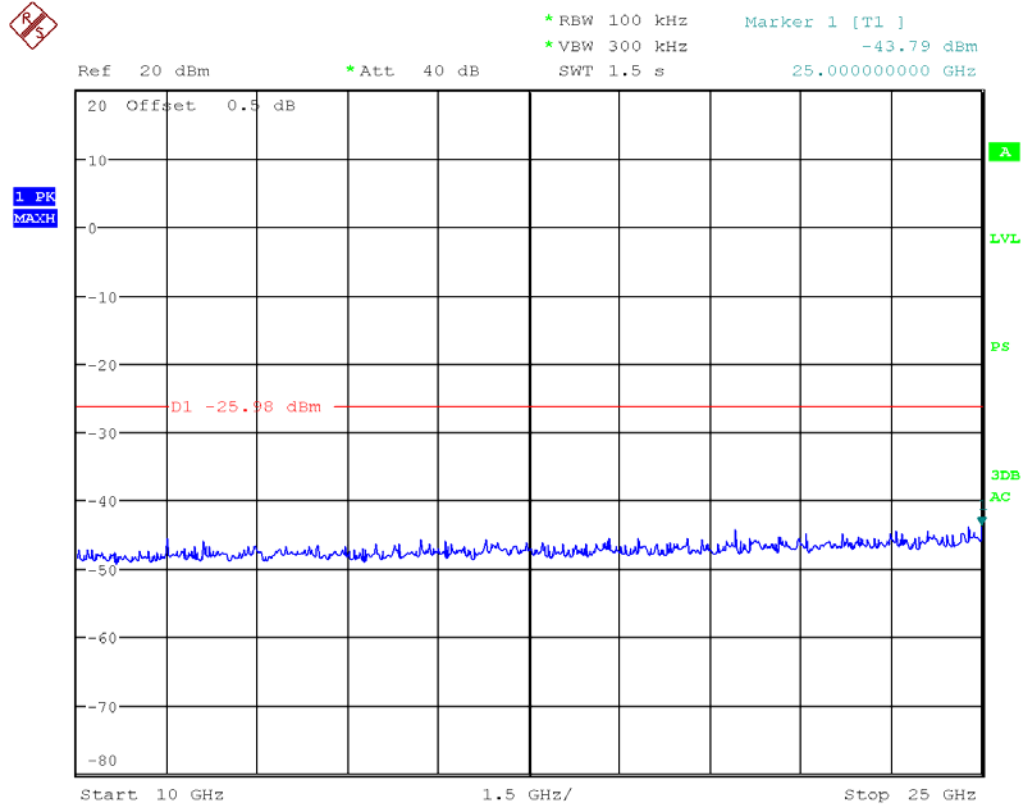
802.11G mode:  
Channel 2437MHz  
30M-1G



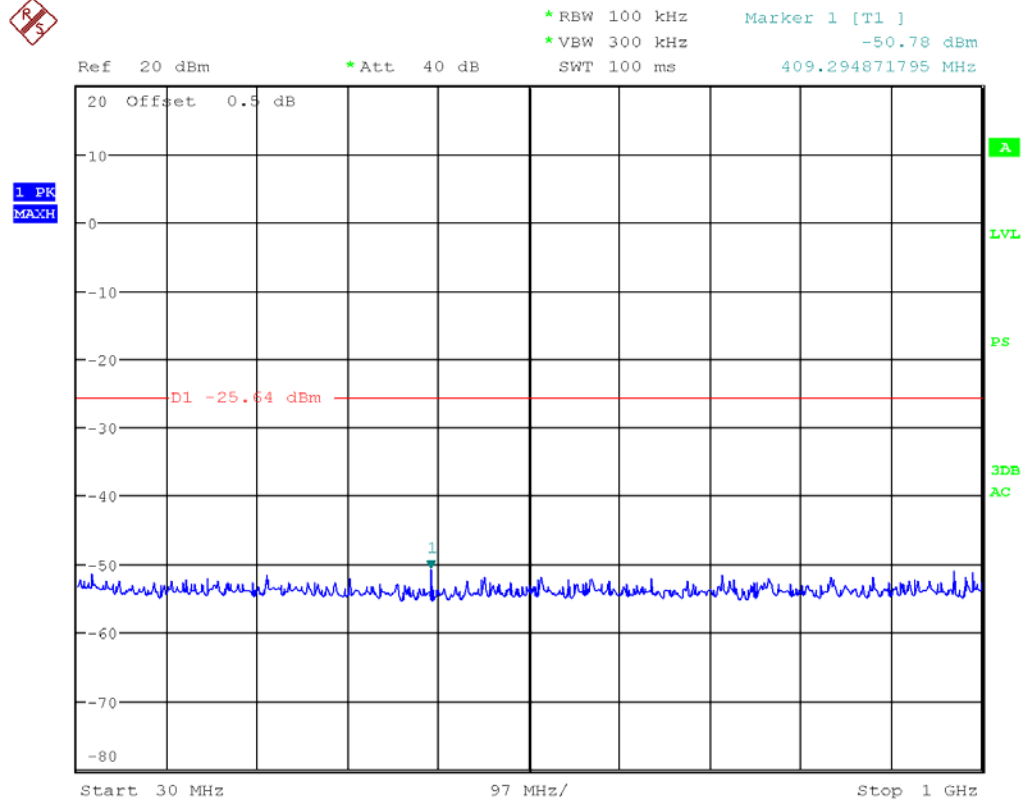
## 1G-10G



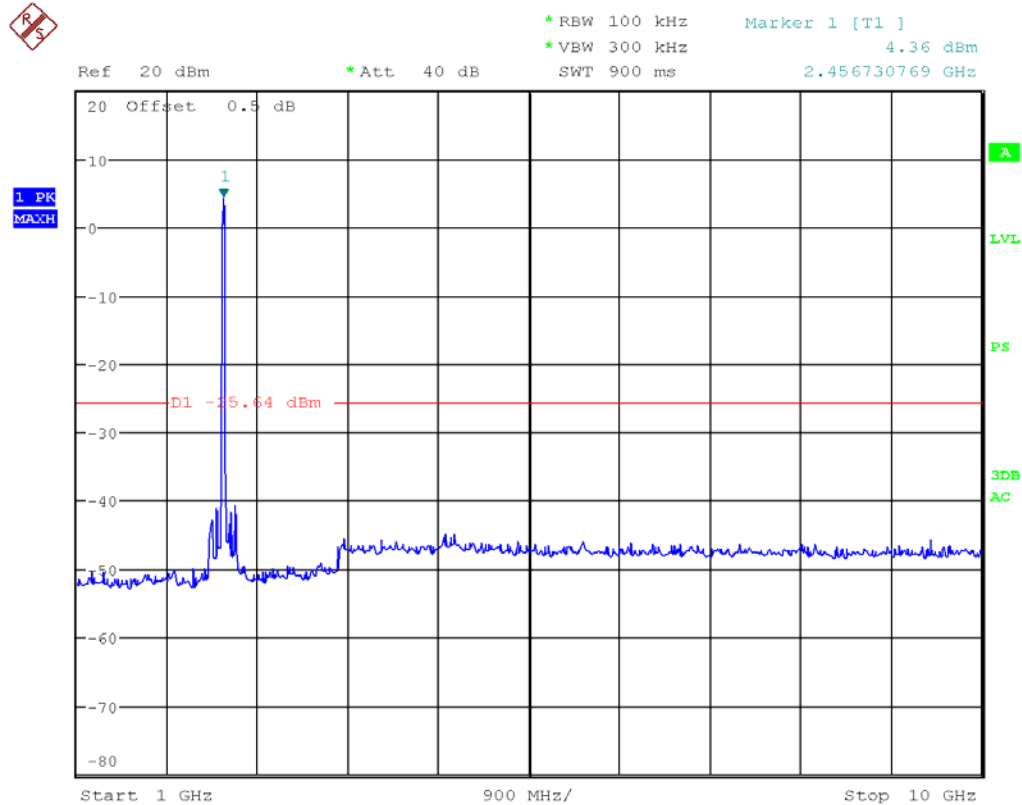
## 10G-25G



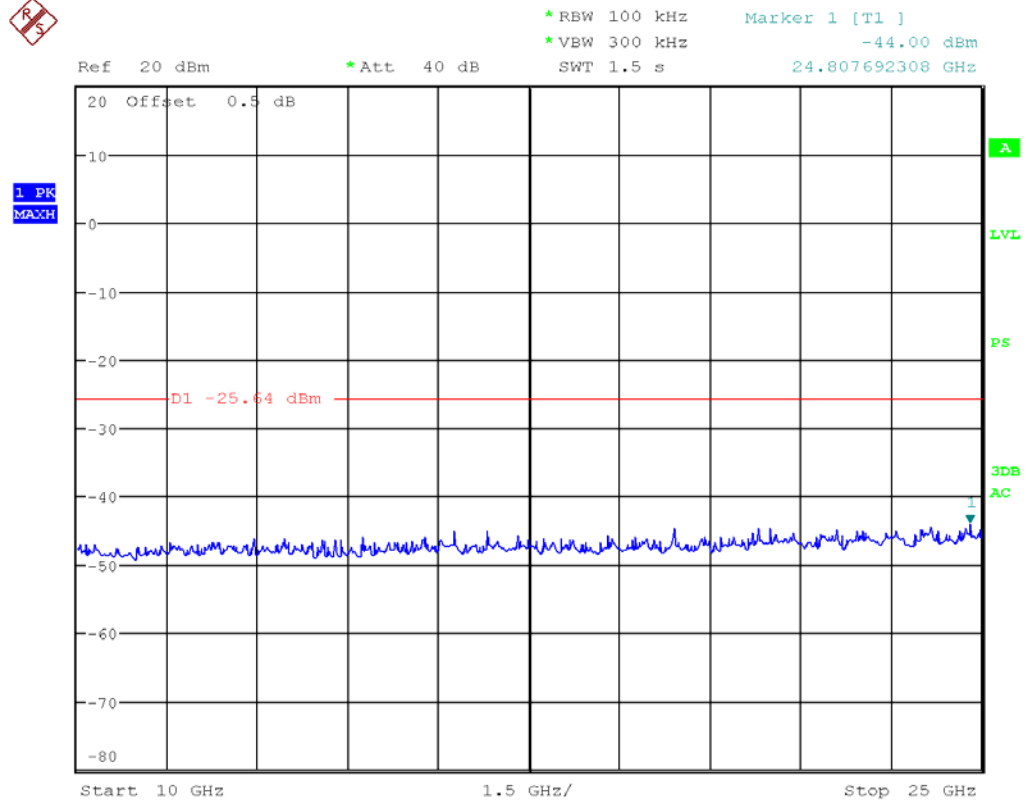
802.11G mode:  
Channel 2462MHz  
30M-1G



1G-10G



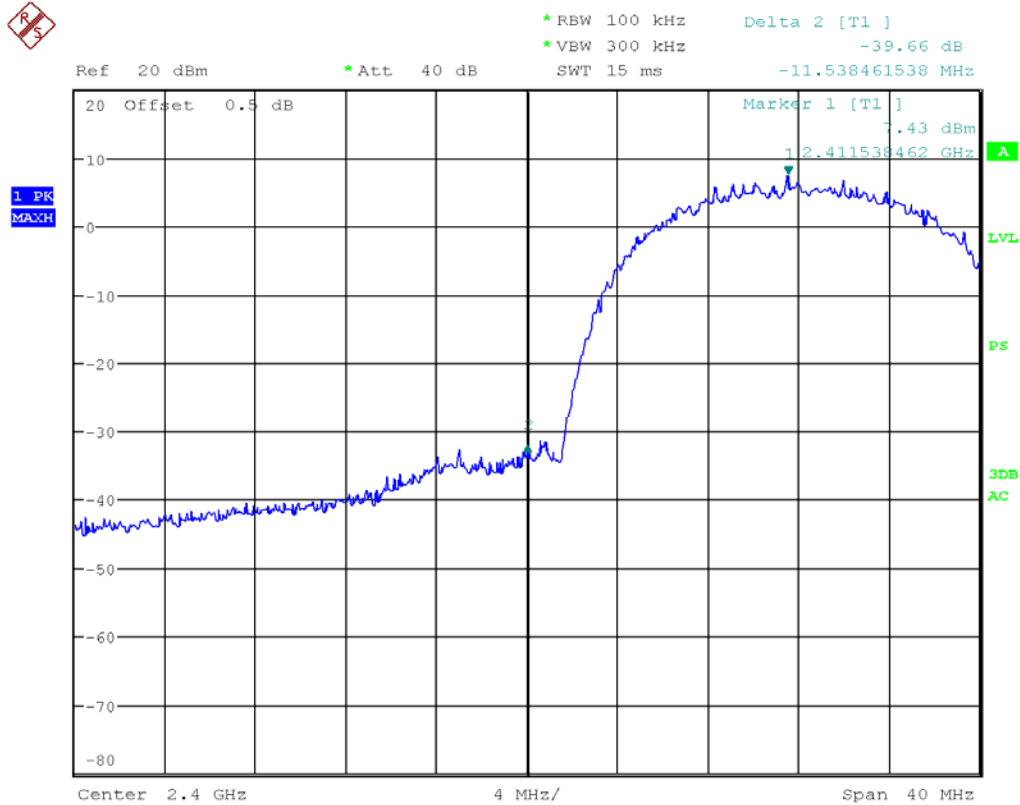
10G-25G



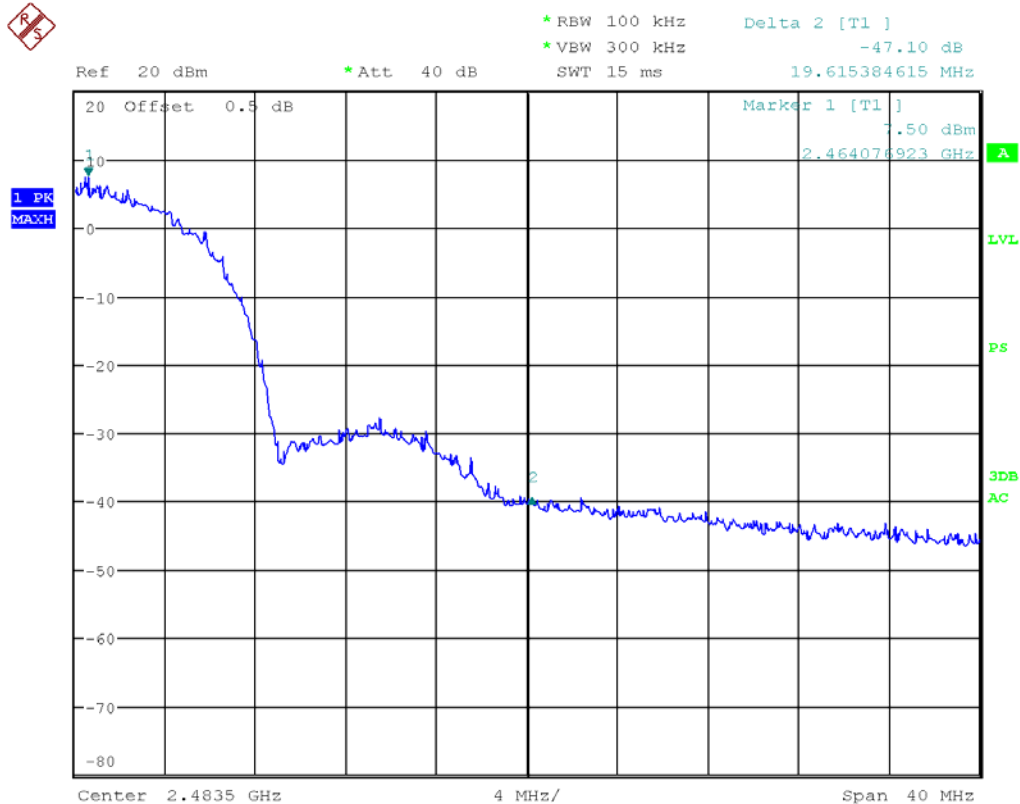
## 7.5 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE

802.11b mode with 11Mbps data rates:

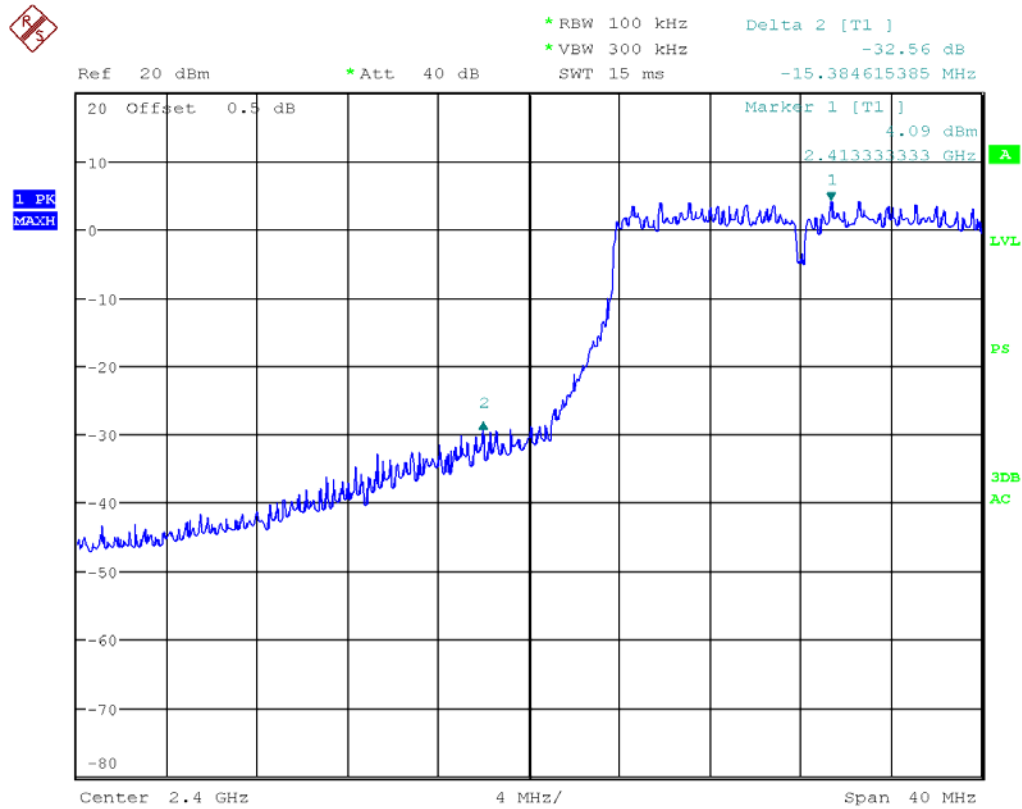
Channel 2412MHz



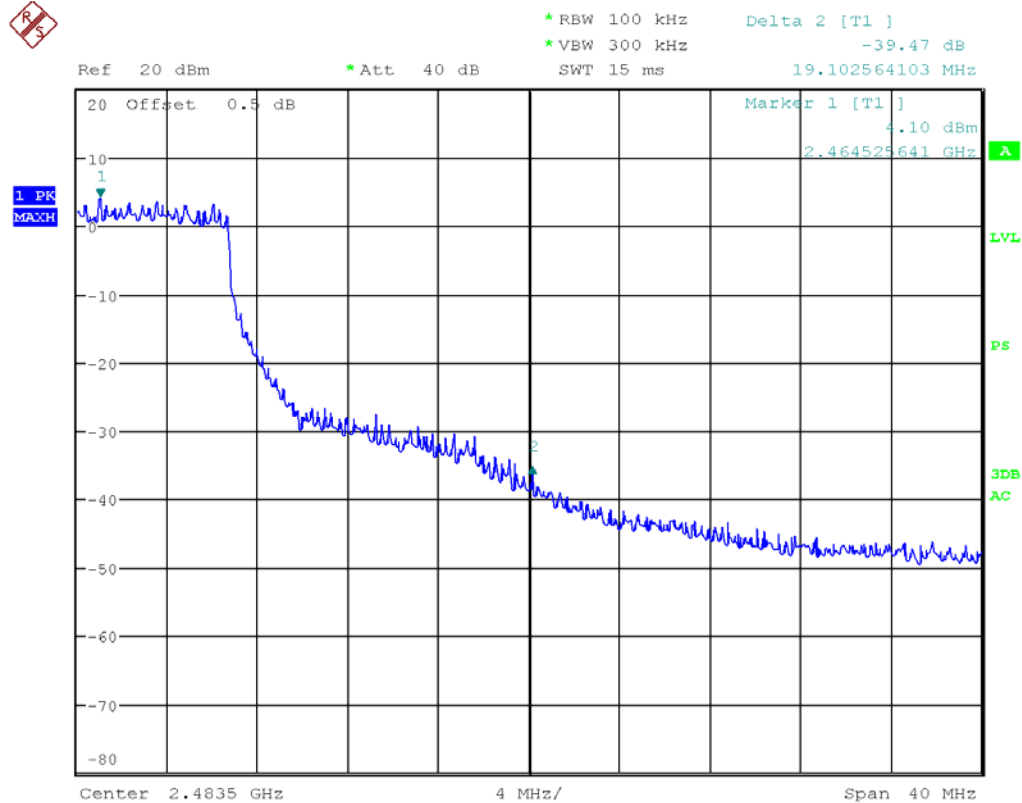
Channel 2462MHz



802.11g mode with 54Mbps data rates::  
Channel 2412MHz



Channel 2462MHz



## 8. 6dB BANDWIDTH TESTING

### 8.1 LIMITS

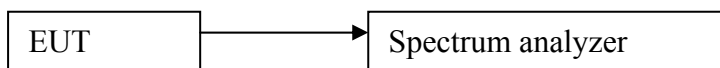
Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

### 8.2 TEST PROCEDURES

Test procedures follow ANSI C63.4:2009 and KDB 558074 D01 DTS Measurement Guidance v01.

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Set resolution bandwidth (RBW) = 1-5 % of the emission bandwidth (EBW). Set the video bandwidth (VBW)  $\geq 3 \times$  RBW. Detector = Peak. Trace mode = max hold. Sweep = auto couple. Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission. Compare the resultant bandwidth with the RBW setting of the analyzer.
5. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is 1-5 %.
6. Repeat above procedures until all frequencies measured were complete.

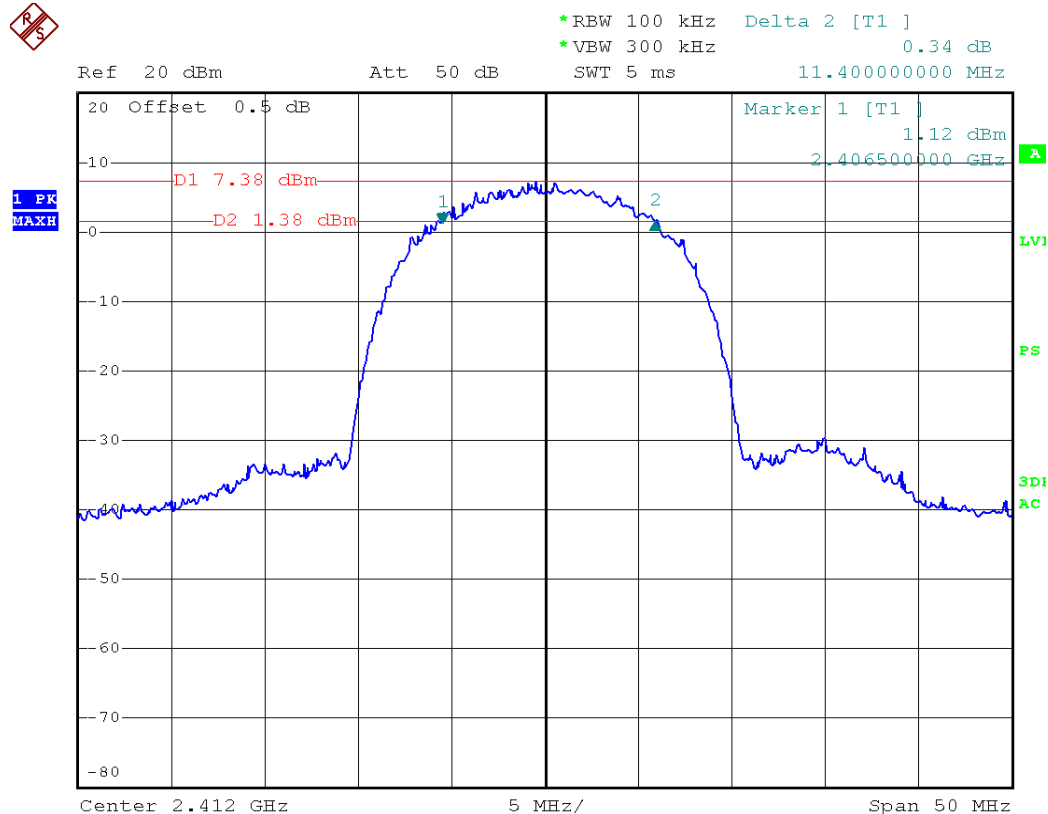
### 8.3 TEST SETUP



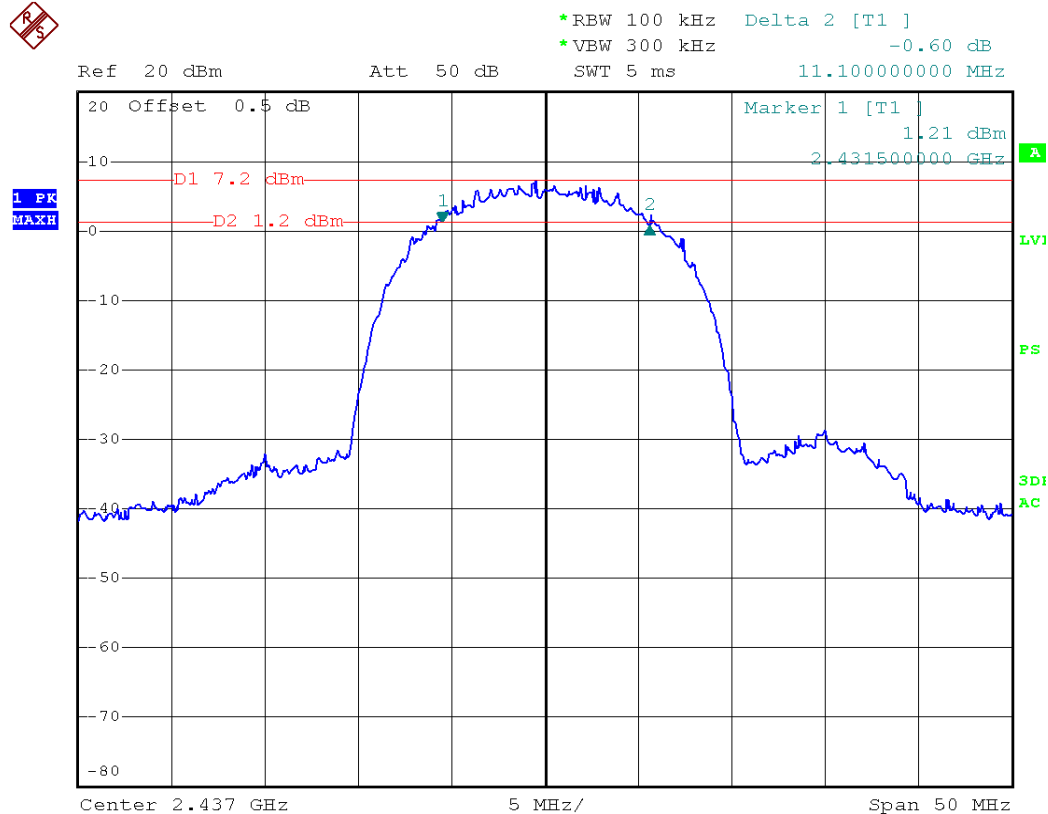
### 8.4 TEST RESULTS

| Channel        | Channel Frequency (MHz) | Data Rate (Mbps) | 6dB Bandwidth (MHz) | Limit (kHz) |
|----------------|-------------------------|------------------|---------------------|-------------|
| 802.11b Mode   |                         |                  |                     |             |
| Low Channel    | 2412                    | 11               | 11.40               | > 500       |
| Middle Channel | 2437                    | 11               | 11.10               | > 500       |
| High Channel   | 2462                    | 11               | 11.20               | > 500       |

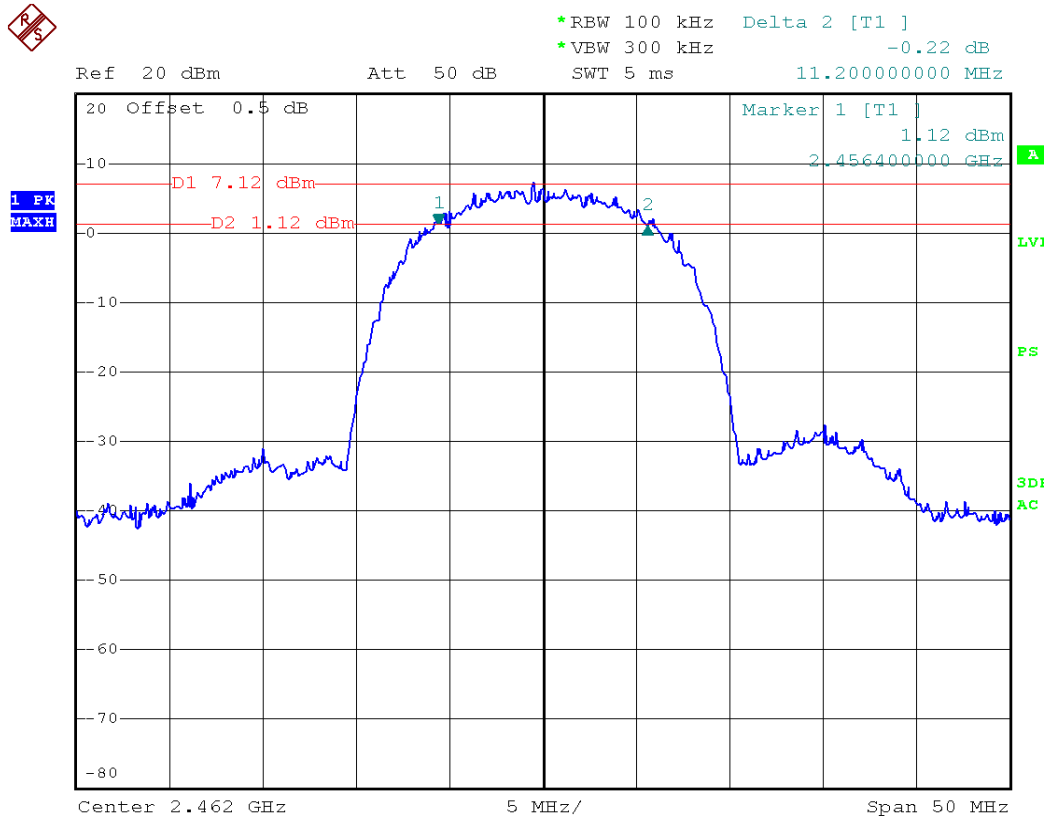
802.11b mode:  
Channel 2412MHz



Channel 2437MHz

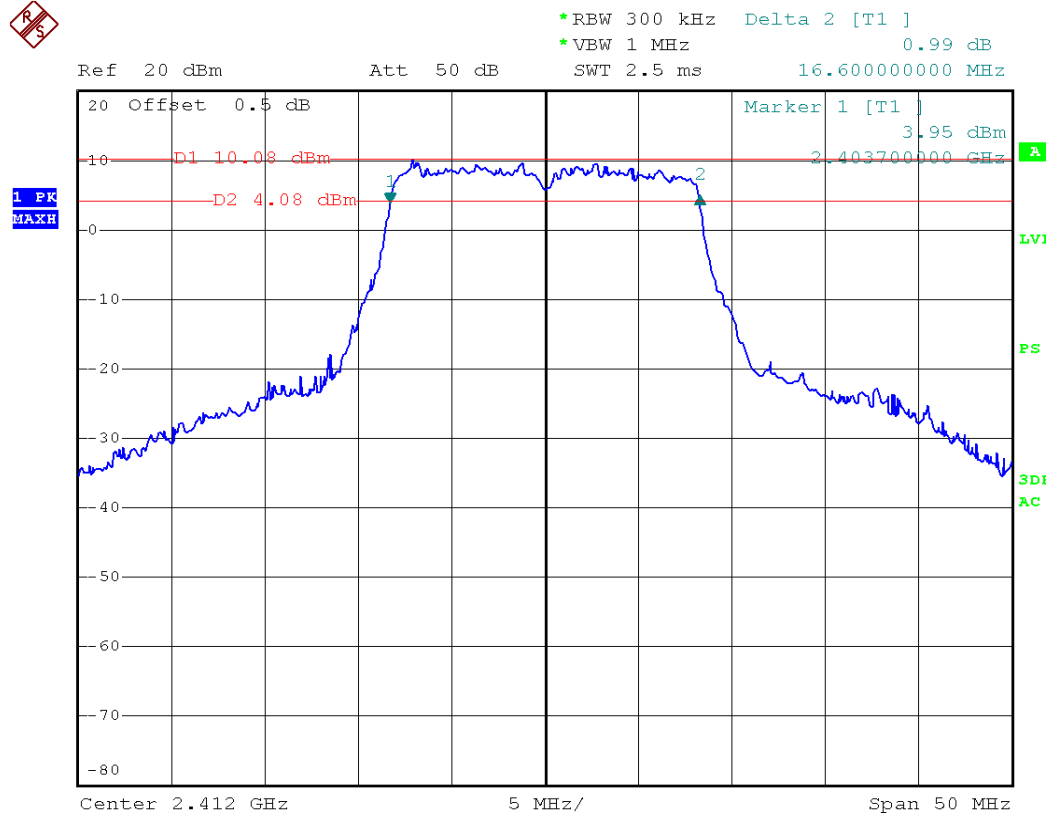


Channel 2462MHz

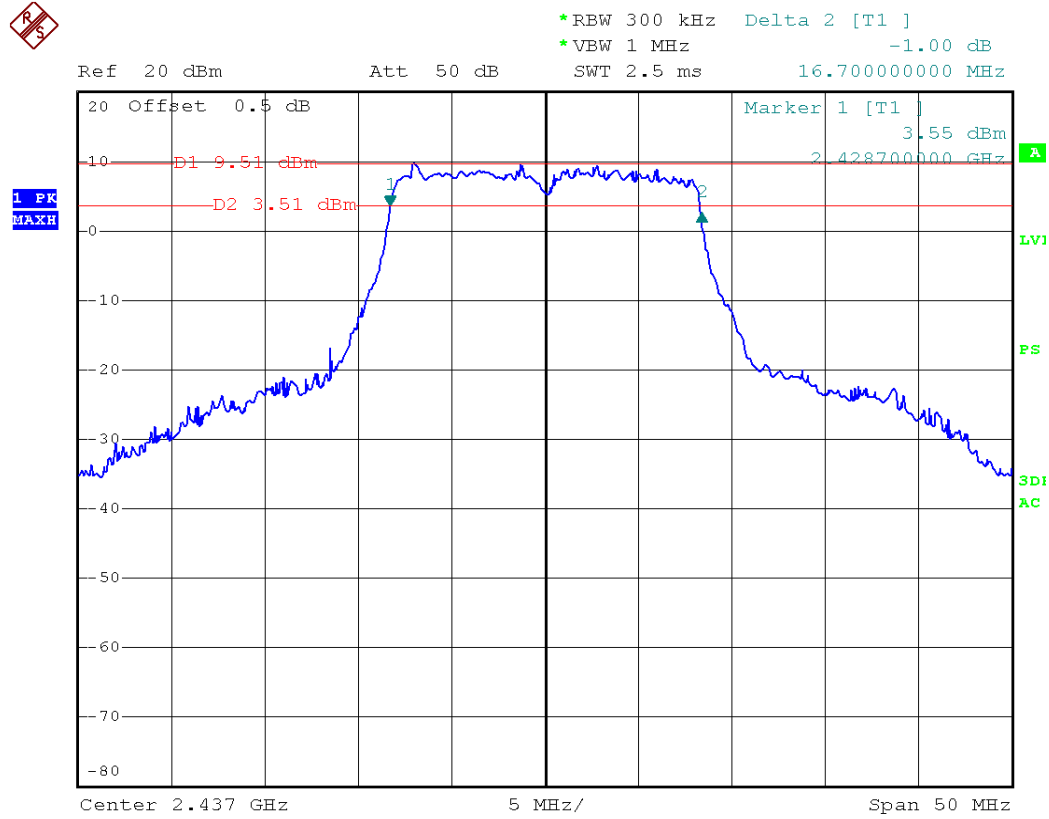


| Channel        | Channel Frequency (MHz) | Data Rate (Mbps) | 6dB Bandwidth (MHz) | Limit (kHz) |
|----------------|-------------------------|------------------|---------------------|-------------|
| 802.11g Mode   |                         |                  |                     |             |
| Low Channel    | 2412                    | 54               | 16.600              | > 500       |
| Middle Channel | 2437                    | 54               | 16.700              | > 500       |
| High Channel   | 2462                    | 54               | 16.800              | > 500       |

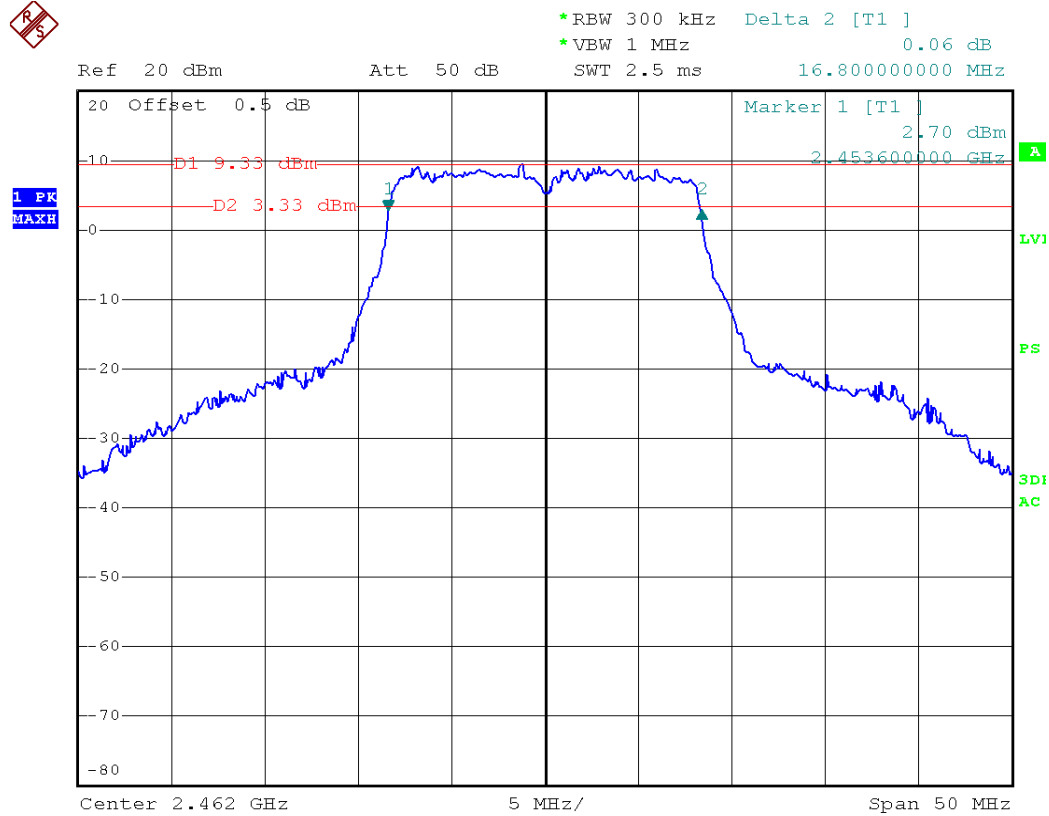
802.11g mode:  
Channel 2412MHz



## Channel 2437MHz



## Channel 2462MHz



## 9. MAXIMUM PEAK OUTPUT POWER

### 9.1 LIMITS

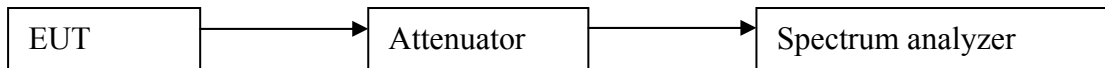
The maximum Peak output power measurement is 1W

### 9.2 TEST PROCEDURES

Test procedures follow KDB 558074 D01 DTS Measurement Guidance v01.

1. Place the EUT on a bench and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to an EMI Test Receiver.
3. The spectrum analyzer resolution bandwidth that is  $\leq$ EBW. So we test the Maximum Conducted (Average) Output Power Level.
4. Set the analyzer span to 5-30% greater than the EBW. Set the RBW = 1 MHz. Set the VBW  $\geq$  3 MHz. Ensure that the number of measurement points in the sweep  $\geq$  2 x (span/RBW). Sweep time = auto couple. Detector = power averaging (RMS) or sample. Employ trace averaging in power averaging (RMS) mode over a minimum of 100 traces.
5. Pretest the two antenna ports and the antenna 1's value is bigger. So we record the antenna 1 data in 802.11b and 802.11g modes.

### 9.3 TEST SETUP



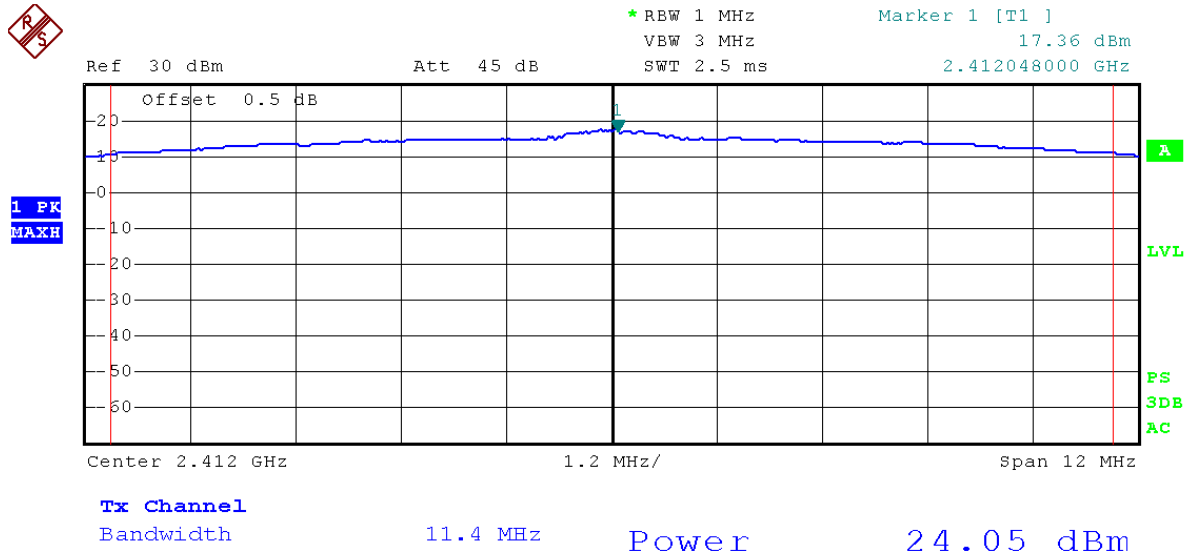
### 9.4 TEST RESULTS

#### 802.11b Mode:

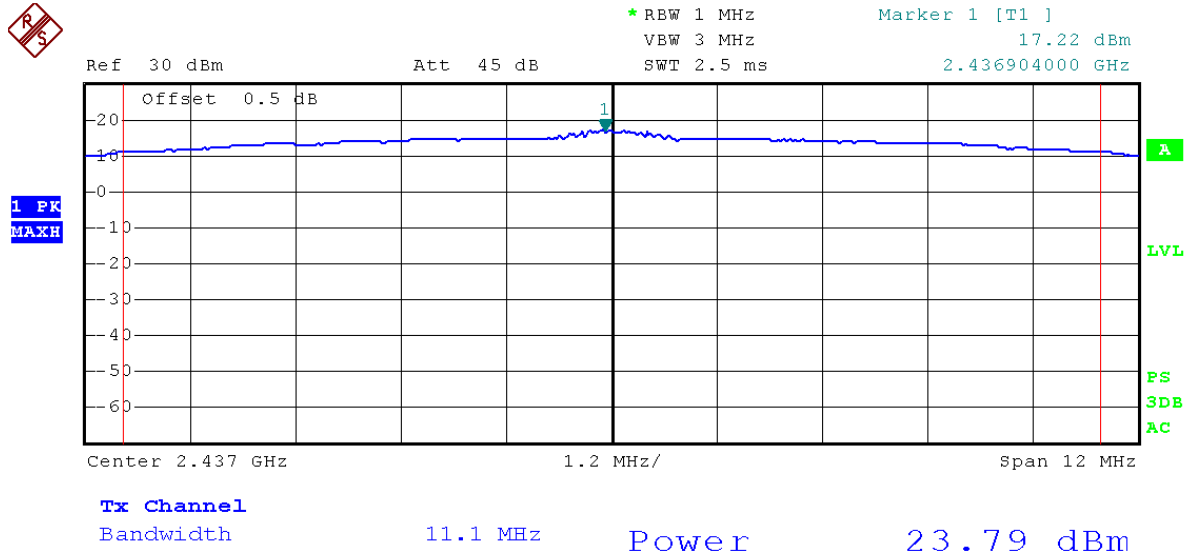
| Channel No. | Frequency (MHz) | Mode    | Data Rate | Measured Channel Power (dBm) | Limit         | Result |
|-------------|-----------------|---------|-----------|------------------------------|---------------|--------|
| 1           | 2412            | 802.11b | 1Mbps     | 23.41                        | 1W<br>(30dBm) | Pass   |
| 6           | 2437            |         |           | 23.16                        |               | Pass   |
| 11          | 2462            |         |           | 23.12                        |               | Pass   |
| 1           | 2412            |         | 2Mbps     | 23.65                        |               | Pass   |
| 6           | 2437            |         |           | 23.31                        |               | Pass   |
| 11          | 2462            |         |           | 23.43                        |               | Pass   |
| 1           | 2412            |         | 5.5Mbps   | 23.88                        |               | Pass   |
| 6           | 2437            |         |           | 23.64                        |               | Pass   |
| 11          | 2462            |         |           | 23.56                        |               | Pass   |
| 1           | 2412            |         | 11Mbps    | 24.05                        |               | Pass   |
| 6           | 2437            |         |           | 23.79                        |               | Pass   |
| 11          | 2462            |         |           | 23.65                        |               | Pass   |

802.11b mode: 11Mbps

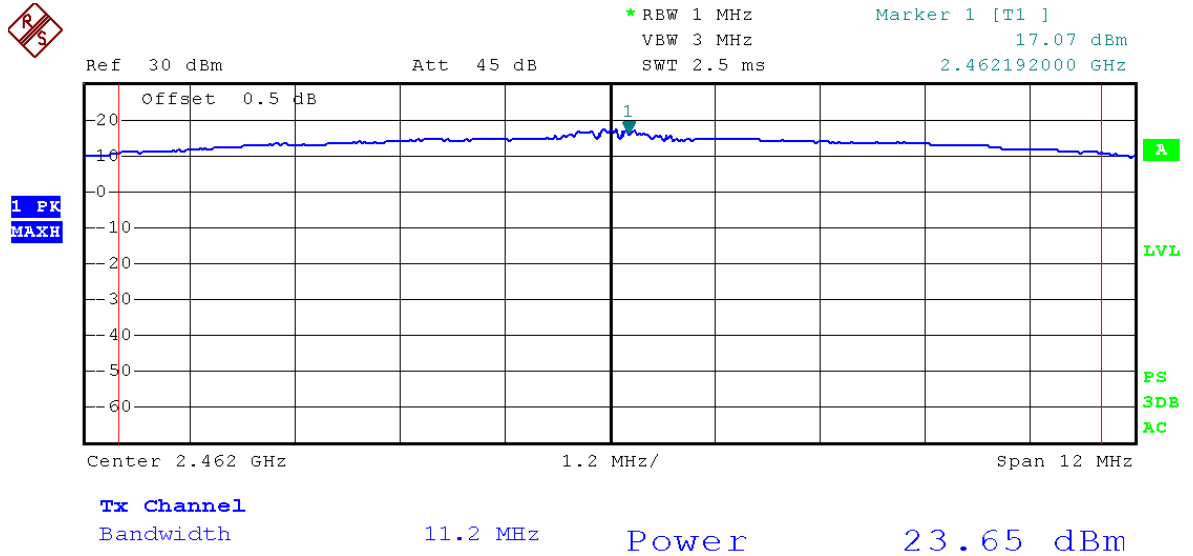
Channel 2412MHz



Channel 2437MHz



Channel 2462MHz

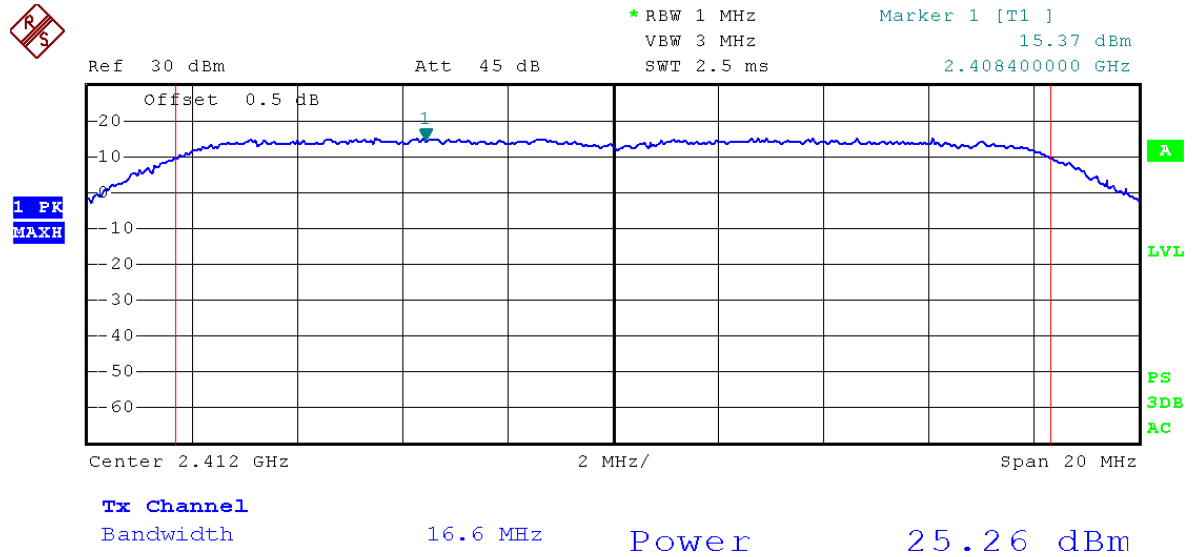


**802.11g Mode:**

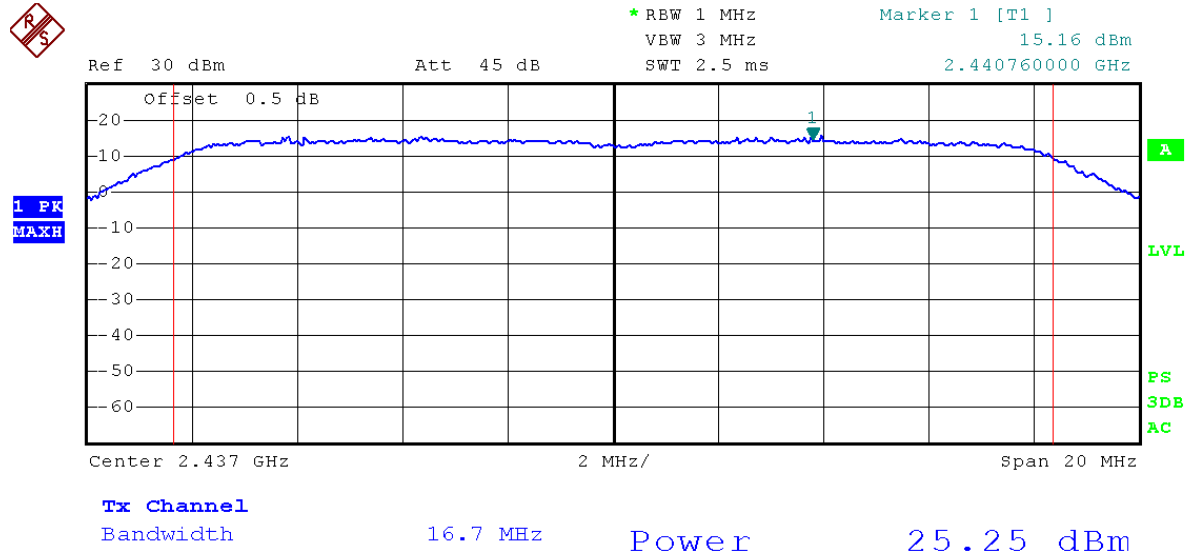
| Channel No. | Frequency (MHz) | Mode    | Data Rate | Measured Channel Power (dBm) | Limit      | Result |
|-------------|-----------------|---------|-----------|------------------------------|------------|--------|
| 1           | 2412            | 802.11g | 6Mbps     | 24.33                        | 1W (30dBm) | Pass   |
| 6           | 2437            |         |           | 24.29                        |            | Pass   |
| 11          | 2462            |         |           | 23.89                        |            | Pass   |
| 1           | 2412            |         | 9Mbps     | 23.33                        |            | Pass   |
| 6           | 2437            |         |           | 24.29                        |            | Pass   |
| 11          | 2462            |         |           | 23.91                        |            | Pass   |
| 1           | 2412            |         | 12Mbps    | 24.38                        |            | Pass   |
| 6           | 2437            |         |           | 24.37                        |            | Pass   |
| 11          | 2462            |         |           | 23.95                        |            | Pass   |
| 1           | 2412            |         | 18Mbps    | 24.51                        |            | Pass   |
| 6           | 2437            |         |           | 24.51                        |            | Pass   |
| 11          | 2462            |         |           | 24.07                        |            | Pass   |
| 1           | 2412            |         | 24Mbps    | 24.79                        |            | Pass   |
| 6           | 2437            |         |           | 24.74                        |            | Pass   |
| 11          | 2462            |         |           | 24.24                        |            | Pass   |
| 1           | 2412            |         | 36Mbps    | 25.02                        |            | Pass   |
| 6           | 2437            |         |           | 24.84                        |            | Pass   |
| 11          | 2462            |         |           | 24.31                        |            | Pass   |
| 1           | 2412            |         | 48Mbps    | 25.12                        |            | Pass   |
| 6           | 2437            |         |           | 25.14                        |            | Pass   |
| 11          | 2462            |         |           | 24.59                        |            | Pass   |
| 1           | 2412            |         | 54Mbps    | 25.26                        |            | Pass   |
| 6           | 2437            |         |           | 25.25                        |            | Pass   |
| 11          | 2462            |         |           | 24.85                        |            | Pass   |

802.11g mode: 54Mbps

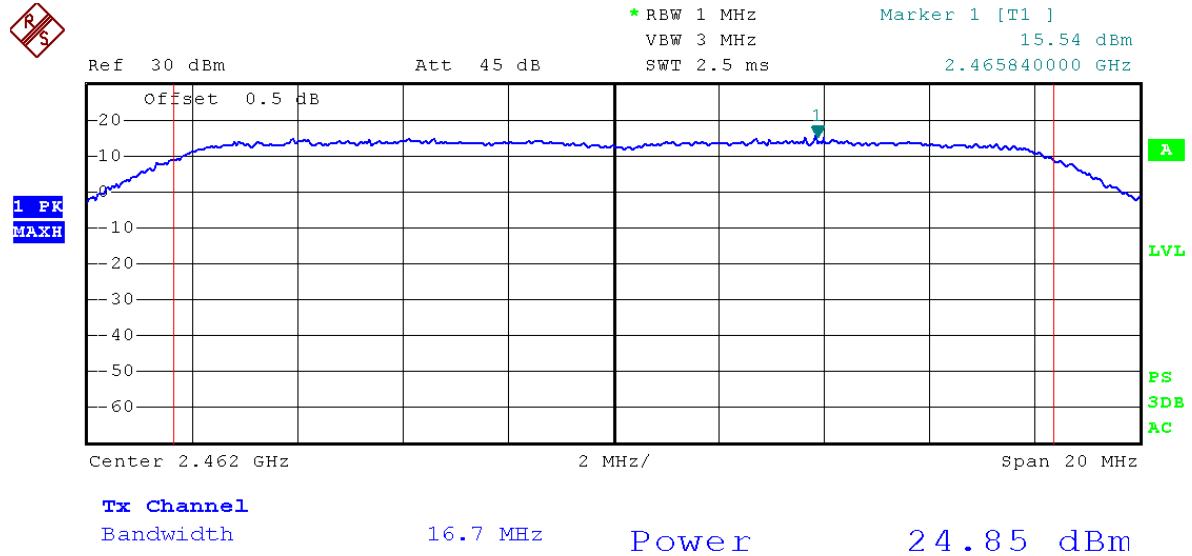
Channel 2412MHz



Channel 2437MHz



Channel 2462MHz



## 10. BAND EDGE MEASUREMENT

### 10.1 LIMITS

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)).

### 10.2 TEST PROCEDURES

Test procedures follow KDB 558074 D01 DTS Meas Guidance v01.

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set the analyzer span to encompass the entire unwanted emission bandwidth above the measurement system noise level.
4. When Detector = peak, Set the RBW = 1 MHz. Set the VBW  $\geq 3$  MHz. Ensure that the number of measurement points in the sweep  $\geq 2 \times (\text{span}/\text{RBW})$ . Set sweep time = auto couple. When Detector = average. Set the RBW = 1 MHz. Set the VBW = 10 Hz. Ensure that the number of measurement points in the sweep  $\geq 2 \times (\text{span}/\text{RBW})$ . Set sweep time = auto couple. Employ trace averaging over a minimum of 100 traces.
5. Use the peak marker function to determine the maximum average power level in any 1 MHz of the unwanted emission.
6. Repeat above procedures until all measured frequencies were complete.

### 10.3 TEST SETUP

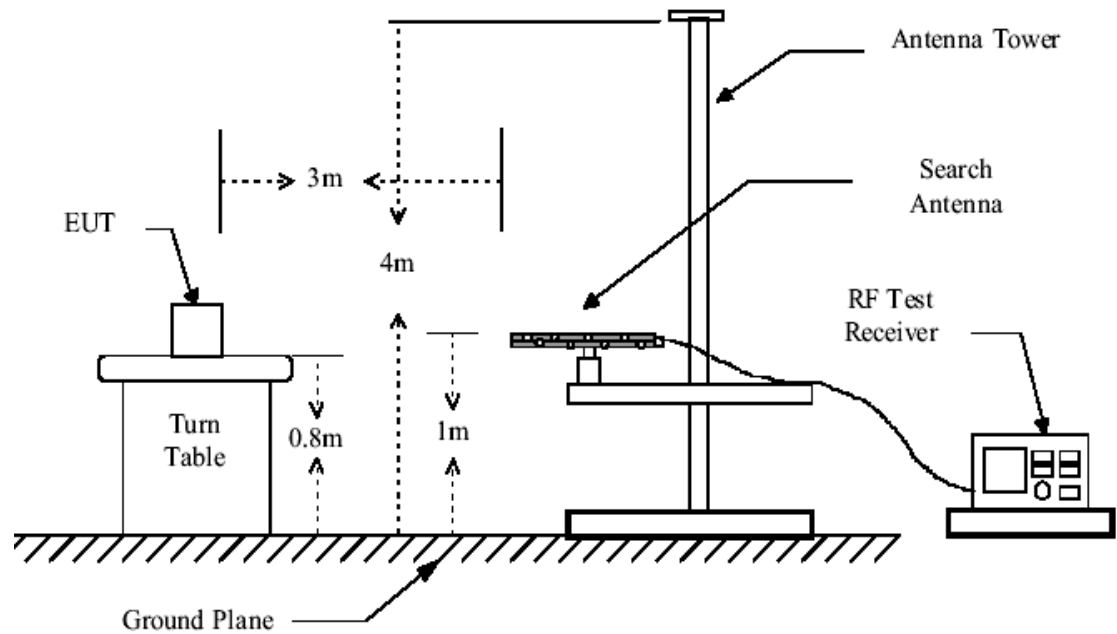


Figure 1. 30MHz to 1GHz radiated emissions test configuration

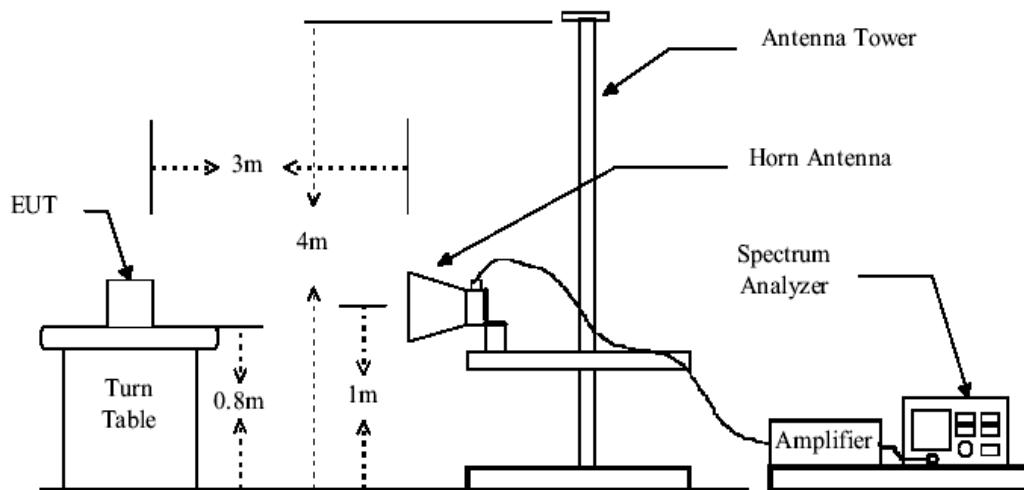
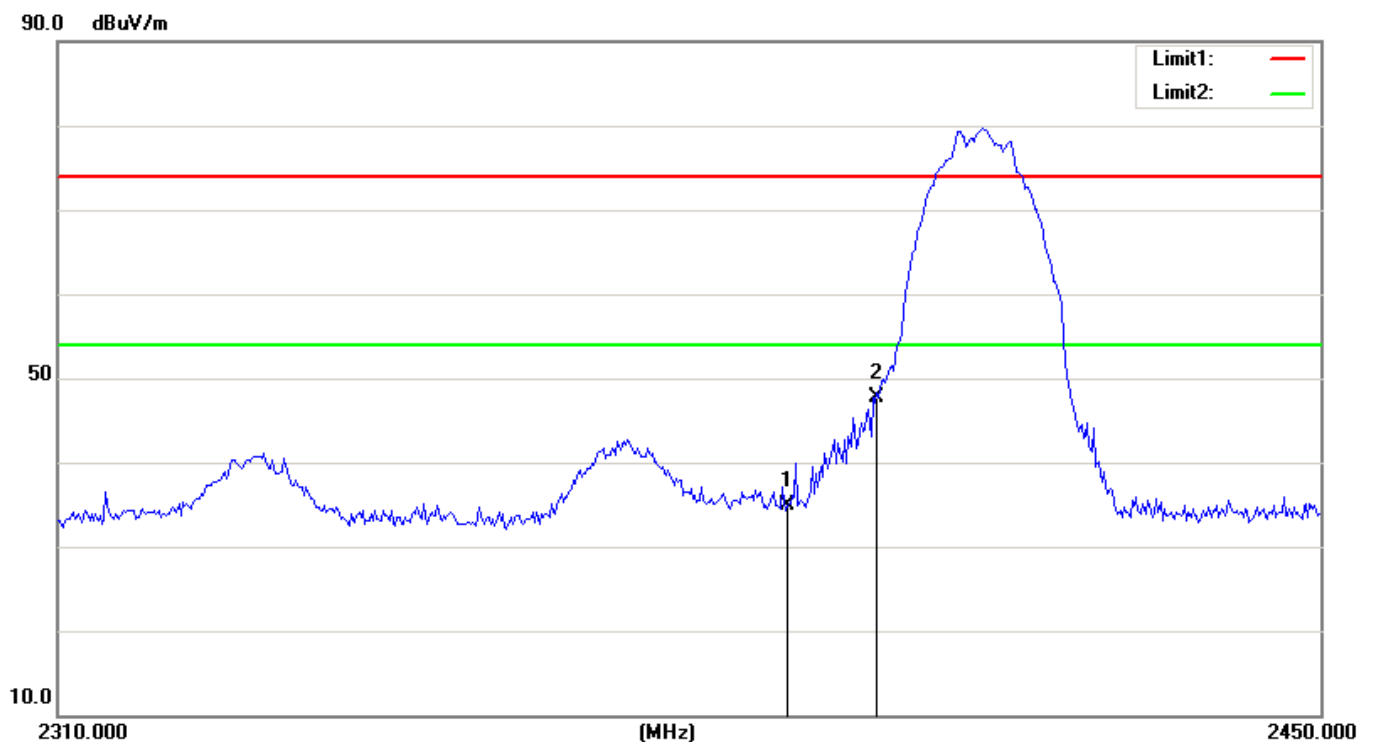


Figure 2. Above 1GHz radiated emissions test configuration

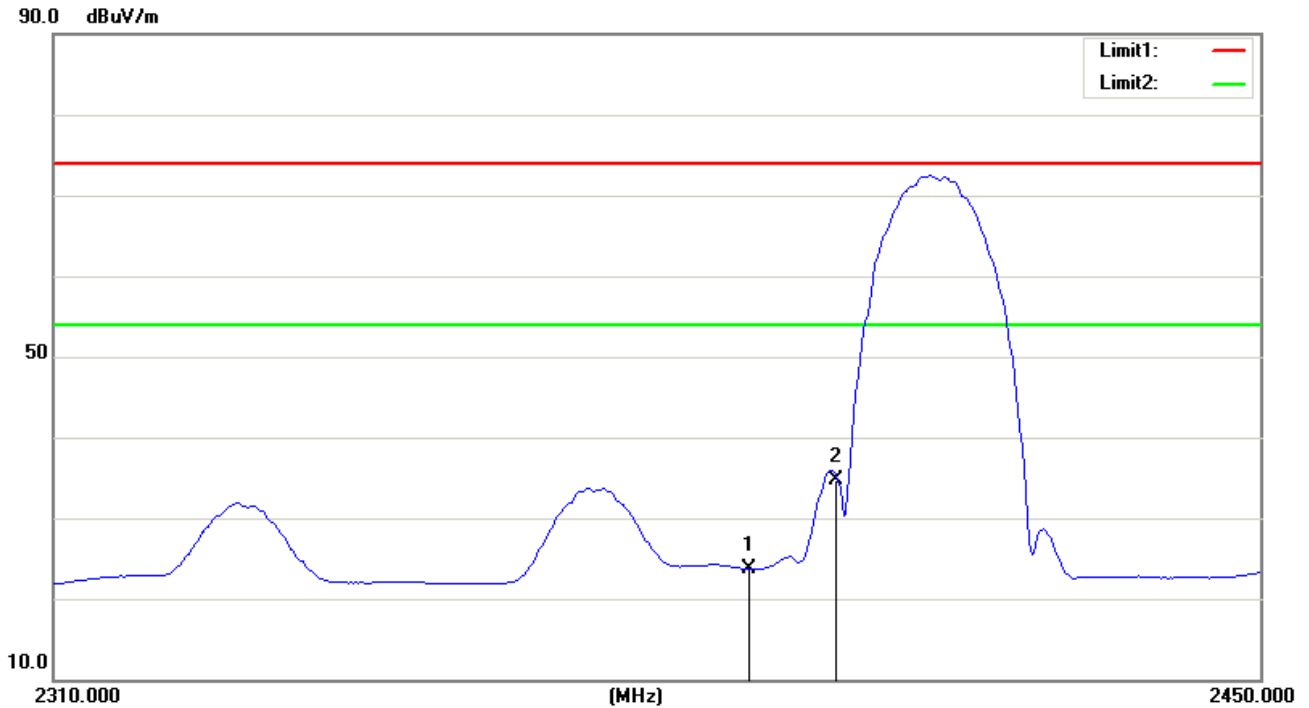
## 10.4 TEST RESULTS

|                         |                                 |                      |                     |
|-------------------------|---------------------------------|----------------------|---------------------|
| <b>Project No.:</b>     | <b>ZJ00029362</b>               | <b>Polarization:</b> | <b>Vertical</b>     |
| <b>Standard:</b>        | <b>(RE)FCC PART 15.247_PEAK</b> | <b>Power Source:</b> | <b>AC 120V/60Hz</b> |
| <b>Test item:</b>       | <b>Radiation Test</b>           | <b>Date:</b>         | <b>2013-6-8</b>     |
| <b>Temp./Hum.(%RH):</b> | <b>22/46%RH</b>                 | <b>Time:</b>         | <b>9:52:50</b>      |
| <b>EUT:</b>             | <b>BLU-RAY DISC SYSTEM</b>      | <b>Distance:</b>     | <b>3m</b>           |
| <b>Model:</b>           | <b>BDS 580-airplay</b>          | <b>Test Result:</b>  | <b>Pass</b>         |
| <b>Note:</b>            | <b>802.11b 2412</b>             |                      |                     |



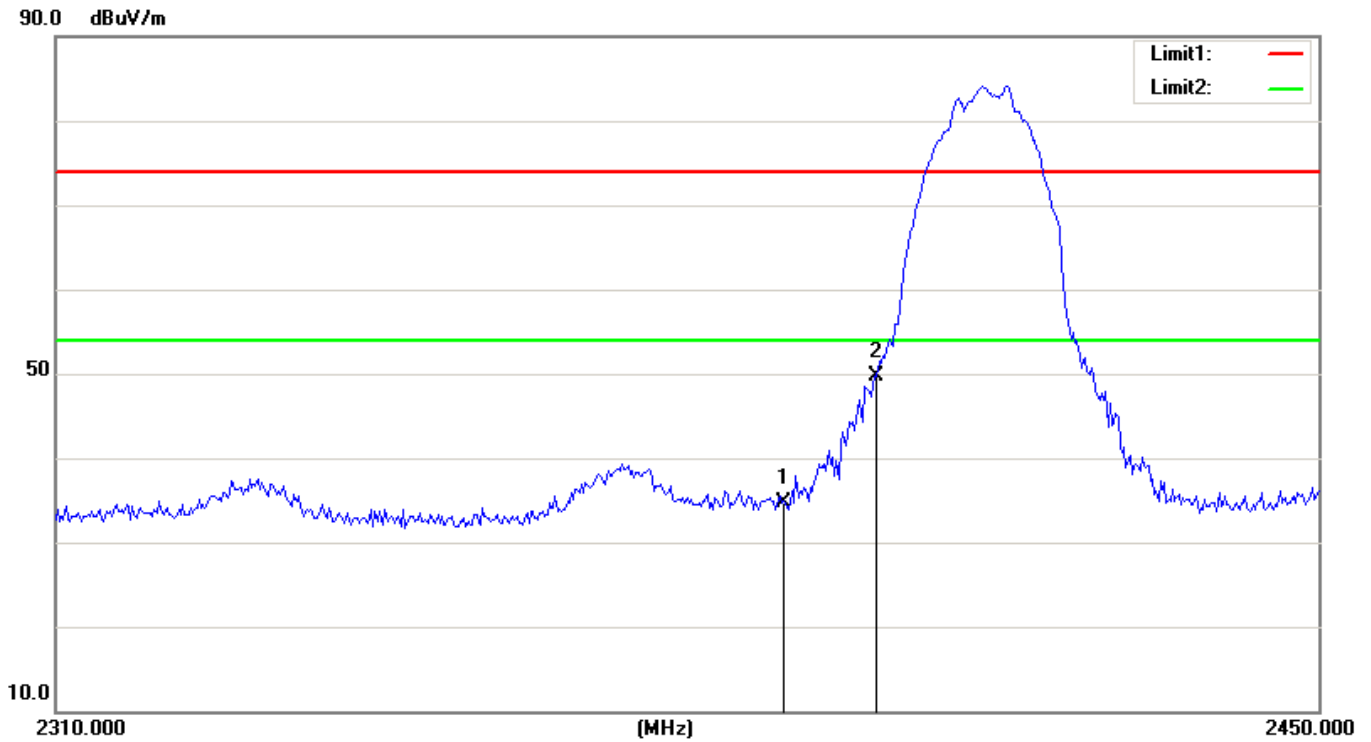
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 2390.000           | 29.70               | 5.25                    | 34.95              | 74.00             | -39.05         | peak   |
| 2   | 2400.000           | 42.35               | 5.29                    | 47.64              | 74.00             | -26.36         | peak   |

|                         |                                |                      |                     |
|-------------------------|--------------------------------|----------------------|---------------------|
| <b>Project No.:</b>     | <b>ZJ00029362</b>              | <b>Polarization:</b> | <b>Vertical</b>     |
| <b>Standard:</b>        | <b>(RE)FCC PART 15.247_AVG</b> | <b>Power Source:</b> | <b>AC 120V/60Hz</b> |
| <b>Test item:</b>       | <b>Radiation Test</b>          | <b>Date:</b>         | <b>2012-8-7</b>     |
| <b>Temp./Hum.(%RH):</b> | <b>22/46%RH</b>                | <b>Time:</b>         | <b>19:27:36</b>     |
| <b>EUT:</b>             | <b>BLU-RAY DISC SYSTEM</b>     | <b>Distance:</b>     | <b>3m</b>           |
| <b>Model:</b>           | <b>BDS 580-airplay</b>         | <b>Test Result:</b>  | <b>Pass</b>         |
| <b>Note:</b>            | <b>802.11b 2412</b>            |                      |                     |



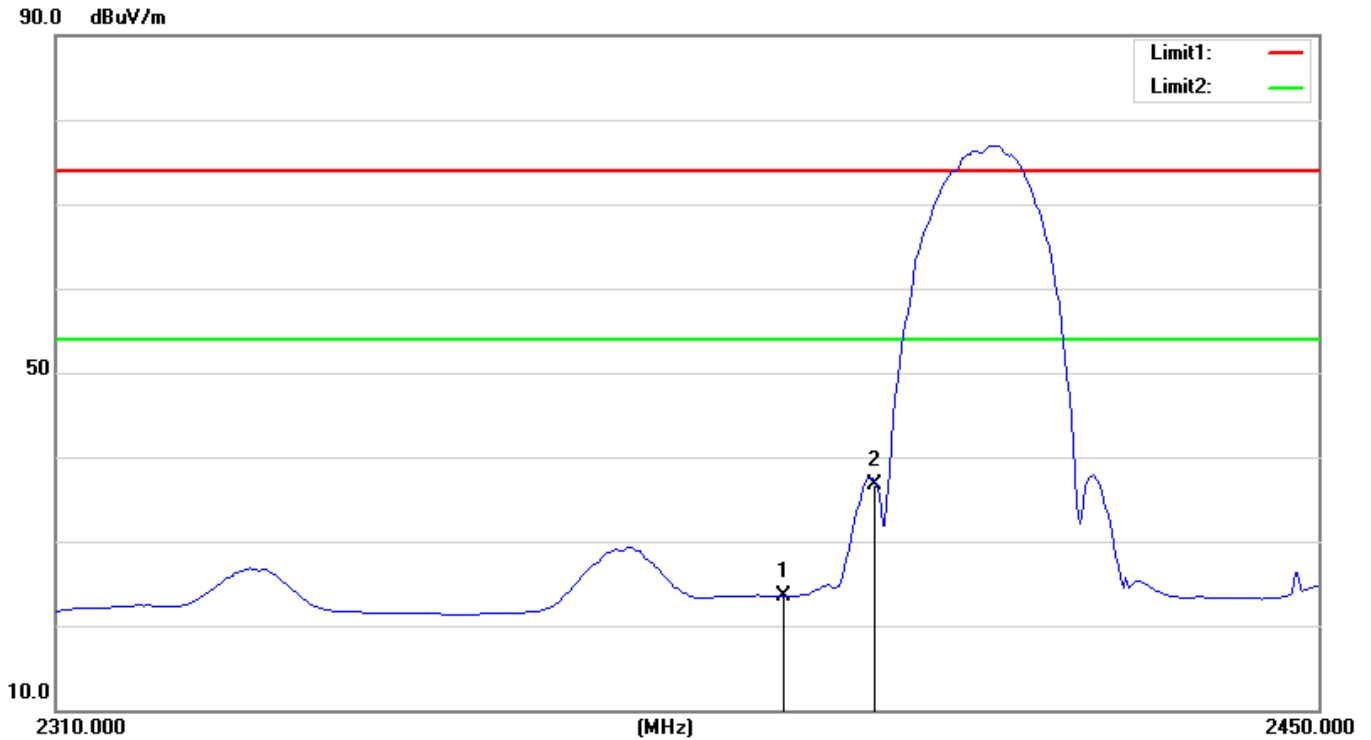
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 2390.000           | 18.41               | 5.25                    | 23.66              | 54.00             | -30.34         | AVG    |
| 2   | 2400.000           | 29.46               | 5.29                    | 34.75              | 54.00             | -19.25         | AVG    |

|                         |                                 |                      |                     |
|-------------------------|---------------------------------|----------------------|---------------------|
| <b>Project No.:</b>     | <b>ZJ00029362</b>               | <b>Polarization:</b> | <b>Horizontal</b>   |
| <b>Standard:</b>        | <b>(RE)FCC PART 15.247_PEAK</b> | <b>Power Source:</b> | <b>AC 120V/60Hz</b> |
| <b>Test item:</b>       | <b>Radiation Test</b>           | <b>Date:</b>         | <b>2013-6-8</b>     |
| <b>Temp./Hum.(%RH):</b> | <b>22/46%RH</b>                 | <b>Time:</b>         | <b>9:45:02</b>      |
| <b>EUT:</b>             | <b>BLU-RAY DISC SYSTEM</b>      | <b>Distance:</b>     | <b>3m</b>           |
| <b>Model:</b>           | <b>BDS 580-airplay</b>          | <b>Test Result:</b>  | <b>Pass</b>         |
| <b>Note:</b>            | <b>802.11b 2412</b>             |                      |                     |



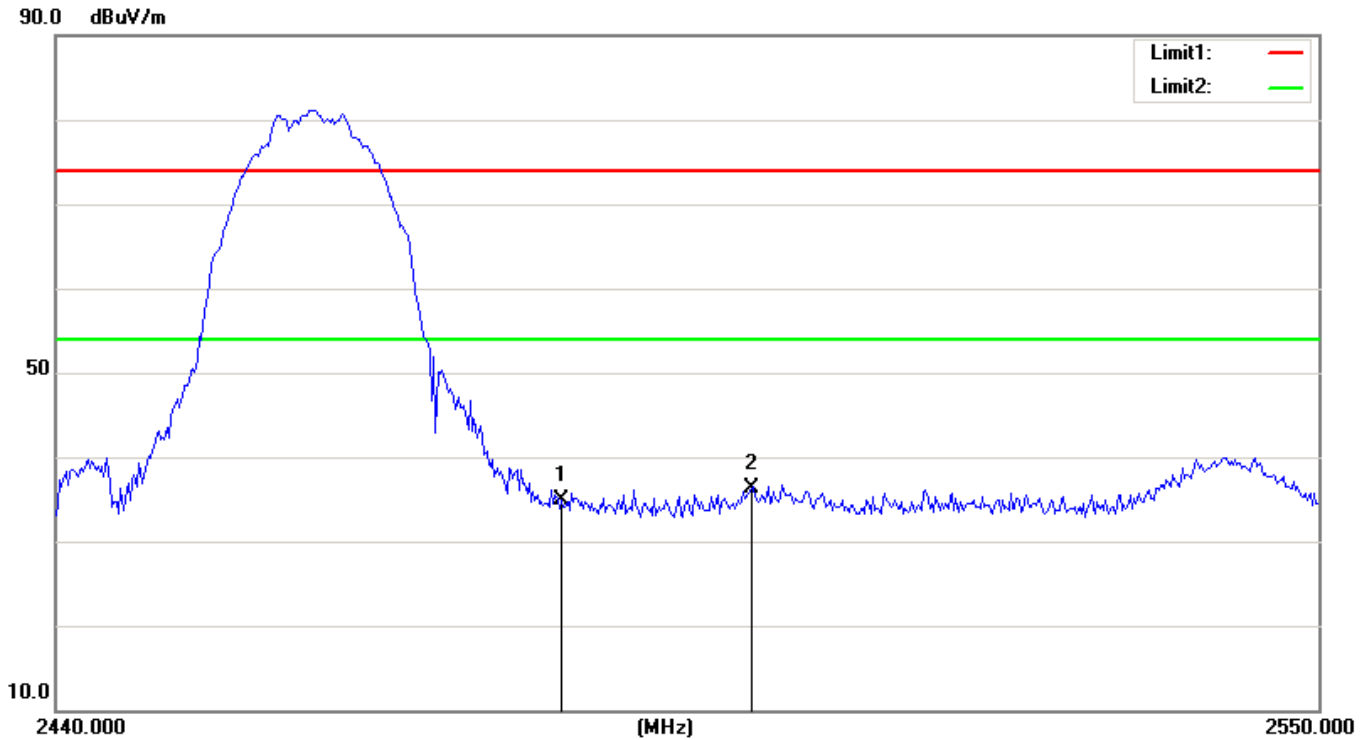
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 2390.000           | 29.40               | 5.25                    | 34.65              | 74.00             | -39.35         | peak   |
| 2   | 2400.000           | 44.48               | 5.29                    | 49.77              | 74.00             | -24.23         | peak   |

|                         |                                |                      |                     |
|-------------------------|--------------------------------|----------------------|---------------------|
| <b>Project No.:</b>     | <b>ZJ00029362</b>              | <b>Polarization:</b> | <b>Horizontal</b>   |
| <b>Standard:</b>        | <b>(RE)FCC PART 15.247_AVG</b> | <b>Power Source:</b> | <b>AC 120V/60Hz</b> |
| <b>Test item:</b>       | <b>Radiation Test</b>          | <b>Date:</b>         | <b>2013-6-8</b>     |
| <b>Temp./Hum.(%RH):</b> | <b>22/46%RH</b>                | <b>Time:</b>         | <b>9:49:28</b>      |
| <b>EUT:</b>             | <b>BLU-RAY DISC SYSTEM</b>     | <b>Distance:</b>     | <b>3m</b>           |
| <b>Model:</b>           | <b>BDS 580-airplay</b>         | <b>Test Result:</b>  | <b>Pass</b>         |
| <b>Note:</b>            | <b>802.11b 2412</b>            |                      |                     |



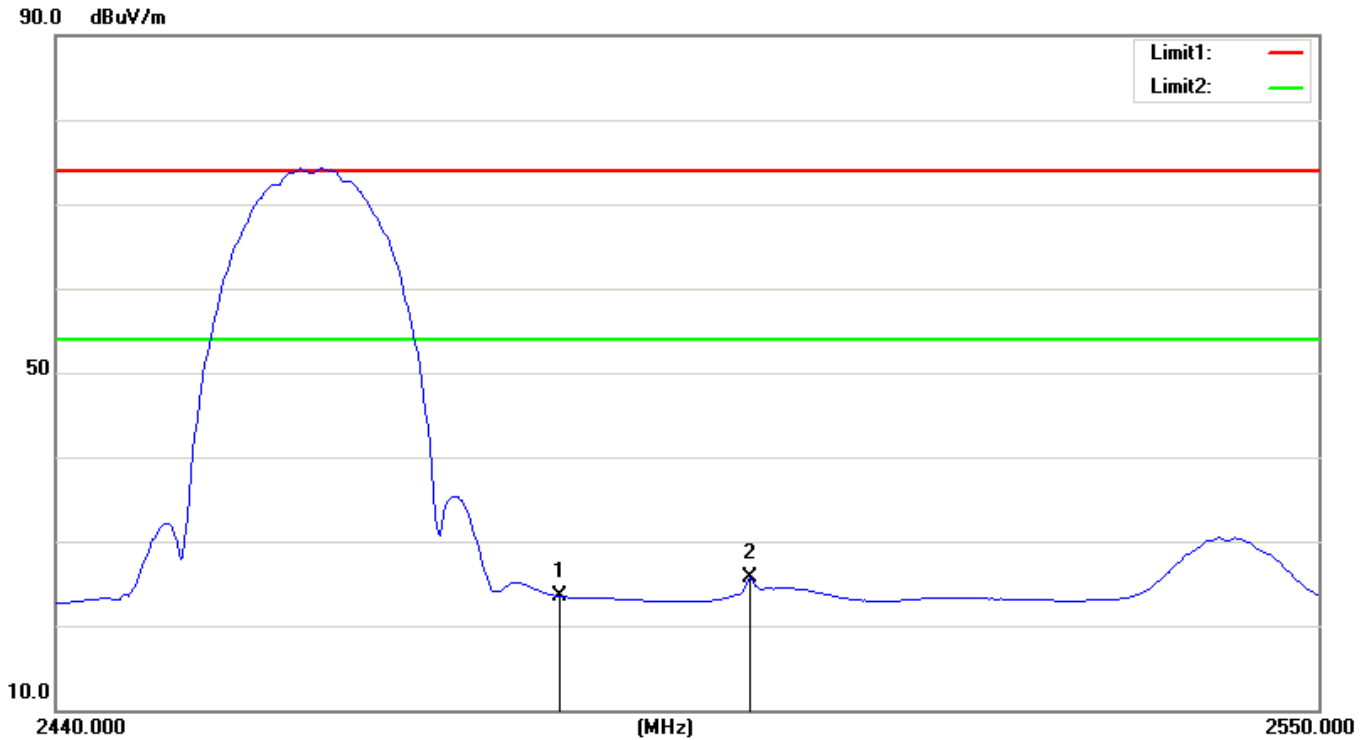
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 2390.000           | 18.27               | 5.25                    | 23.52              | 54.00             | -30.48         | AVG    |
| 2   | 2400.000           | 31.40               | 5.29                    | 36.69              | 54.00             | -17.31         | AVG    |

|                         |                                 |                      |                     |
|-------------------------|---------------------------------|----------------------|---------------------|
| <b>Project No.:</b>     | <b>ZJ00029362</b>               | <b>Polarization:</b> | <b>Vertical</b>     |
| <b>Standard:</b>        | <b>(RE)FCC PART 15.247_PEAK</b> | <b>Power Source:</b> | <b>AC 120V/60Hz</b> |
| <b>Test item:</b>       | <b>Radiation Test</b>           | <b>Date:</b>         | <b>2013-6-8</b>     |
| <b>Temp./Hum.(%RH):</b> | <b>22/46%RH</b>                 | <b>Time:</b>         | <b>9:56:29</b>      |
| <b>EUT:</b>             | <b>BLU-RAY DISC SYSTEM</b>      | <b>Distance:</b>     | <b>3m</b>           |
| <b>Model:</b>           | <b>BDS 580-airplay</b>          | <b>Test Result:</b>  | <b>Pass</b>         |
| <b>Note:</b>            | <b>802.11b 2462</b>             |                      |                     |



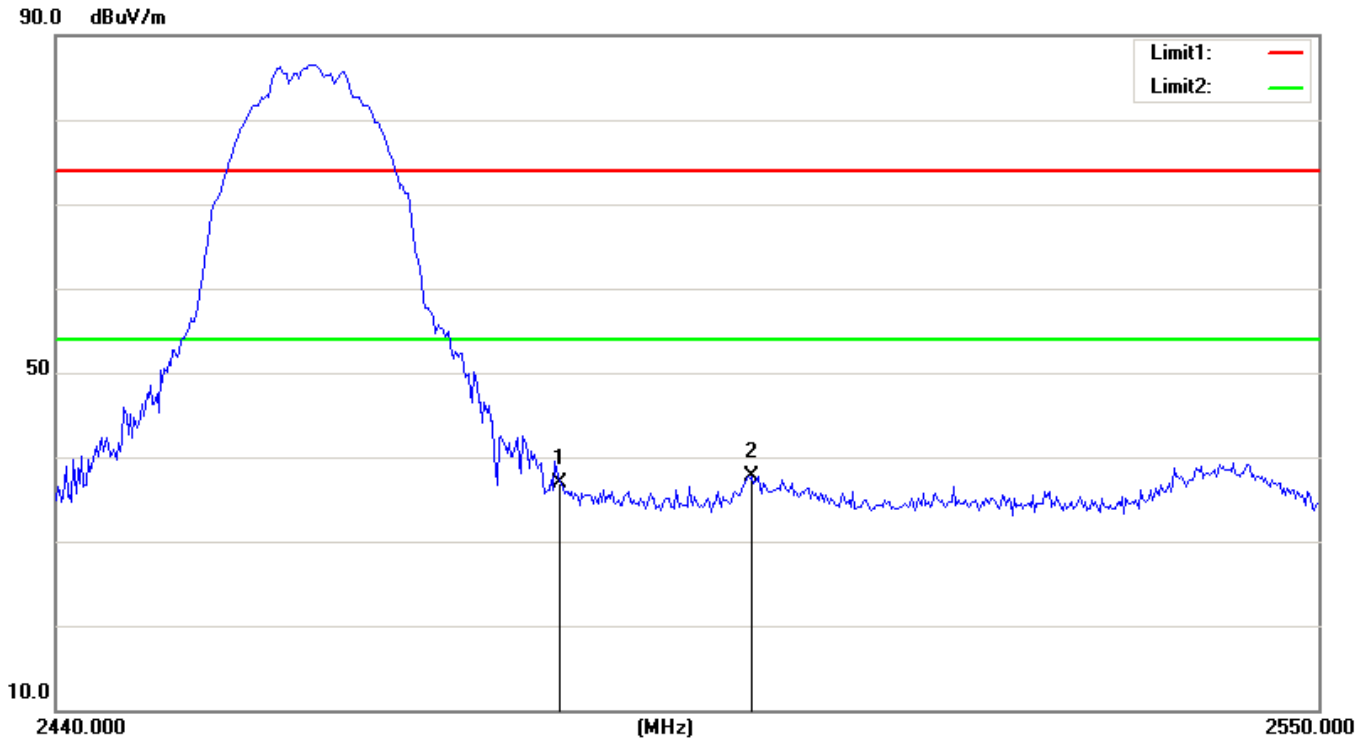
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 2483.500           | 29.30               | 5.60                    | 34.90              | 74.00             | -39.10         | peak   |
| 2   | 2500.000           | 30.60               | 5.66                    | 36.26              | 74.00             | -37.74         | peak   |

|                         |                                 |                      |                     |
|-------------------------|---------------------------------|----------------------|---------------------|
| <b>Project No.:</b>     | <b>ZJ00029362</b>               | <b>Polarization:</b> | <b>Vertical</b>     |
| <b>Standard:</b>        | <b>(RE)FCC PART 15.247_ AVG</b> | <b>Power Source:</b> | <b>AC 120V/60Hz</b> |
| <b>Test item:</b>       | <b>Radiation Test</b>           | <b>Date:</b>         | <b>2013-6-8</b>     |
| <b>Temp./Hum.(%RH):</b> | <b>22/46%RH</b>                 | <b>Time:</b>         | <b>9:58:18</b>      |
| <b>EUT:</b>             | <b>BLU-RAY DISC SYSTEM</b>      | <b>Distance:</b>     | <b>3m</b>           |
| <b>Model:</b>           | <b>BDS 580-airplay</b>          | <b>Test Result:</b>  | <b>Pass</b>         |
| <b>Note:</b>            | <b>802.11b 2462</b>             |                      |                     |



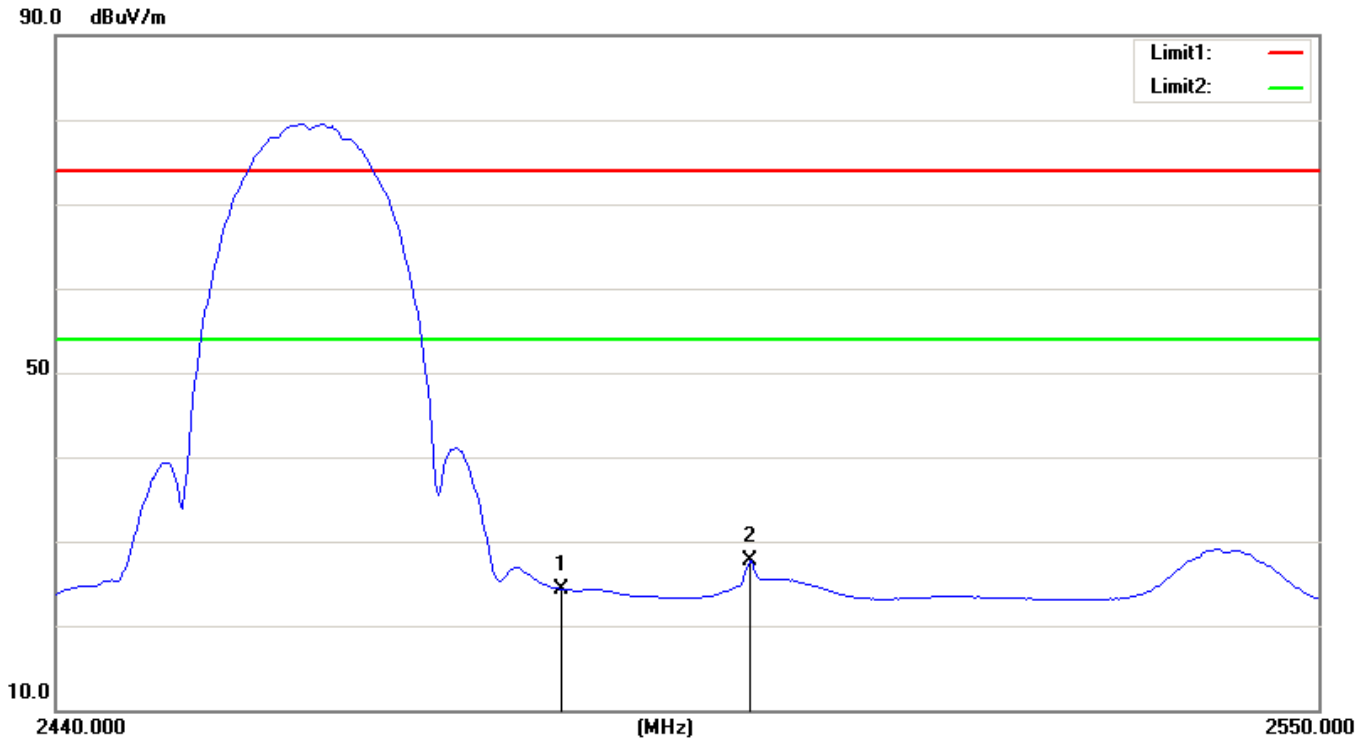
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 2483.500           | 17.84               | 5.60                    | 23.44              | 54.00             | -30.56         | AVG    |
| 2   | 2500.000           | 20.01               | 5.66                    | 25.67              | 54.00             | -28.33         | AVG    |

|                         |                                 |                      |                     |
|-------------------------|---------------------------------|----------------------|---------------------|
| <b>Project No.:</b>     | <b>ZJ00029362</b>               | <b>Polarization:</b> | <b>Horizontal</b>   |
| <b>Standard:</b>        | <b>(RE)FCC PART 15.247_PEAK</b> | <b>Power Source:</b> | <b>AC 120V/60Hz</b> |
| <b>Test item:</b>       | <b>Radiation Test</b>           | <b>Date:</b>         | <b>2013-6-8</b>     |
| <b>Temp./Hum.(%RH):</b> | <b>22/46%RH</b>                 | <b>Time:</b>         | <b>10:00:15</b>     |
| <b>EUT:</b>             | <b>BLU-RAY DISC SYSTEM</b>      | <b>Distance:</b>     | <b>3m</b>           |
| <b>Model:</b>           | <b>BDS 580-airplay</b>          | <b>Test Result:</b>  | <b>Pass</b>         |
| <b>Note:</b>            | <b>802.11b 2462</b>             |                      |                     |



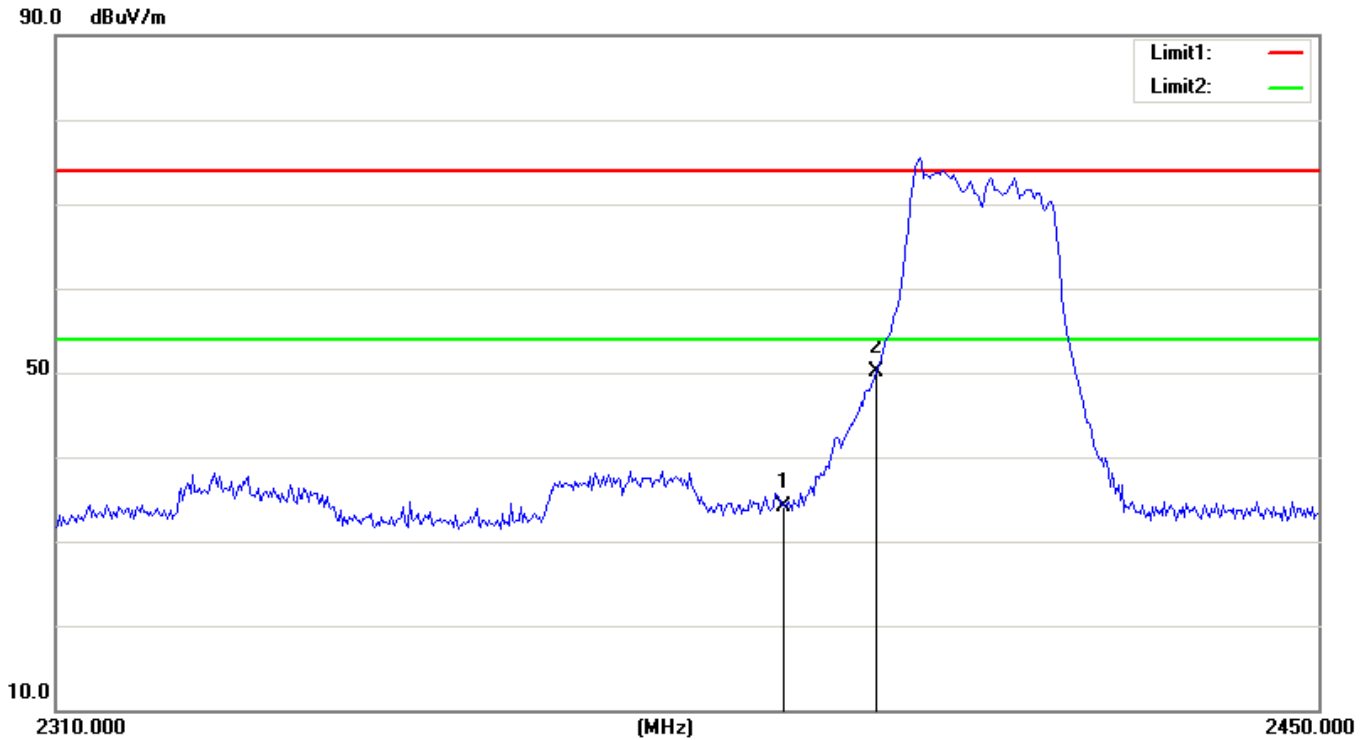
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 2483.500           | 31.32               | 5.60                    | 36.92              | 74.00             | -37.08         | peak   |
| 2   | 2500.000           | 32.09               | 5.66                    | 37.75              | 74.00             | -36.25         | peak   |

|                         |                                 |                      |                     |
|-------------------------|---------------------------------|----------------------|---------------------|
| <b>Project No.:</b>     | <b>ZJ00029362</b>               | <b>Polarization:</b> | <b>Horizontal</b>   |
| <b>Standard:</b>        | <b>(RE)FCC PART 15.247_ AVG</b> | <b>Power Source:</b> | <b>AC 120V/60Hz</b> |
| <b>Test item:</b>       | <b>Radiation Test</b>           | <b>Date:</b>         | <b>2013-6-8</b>     |
| <b>Temp./Hum.(%RH):</b> | <b>22/46%RH</b>                 | <b>Time:</b>         | <b>9:59:40</b>      |
| <b>EUT:</b>             | <b>BLU-RAY DISC SYSTEM</b>      | <b>Distance:</b>     | <b>3m</b>           |
| <b>Model:</b>           | <b>BDS 580-airplay</b>          | <b>Test Result:</b>  | <b>Pass</b>         |
| <b>Note:</b>            | <b>802.11b 2462</b>             |                      |                     |



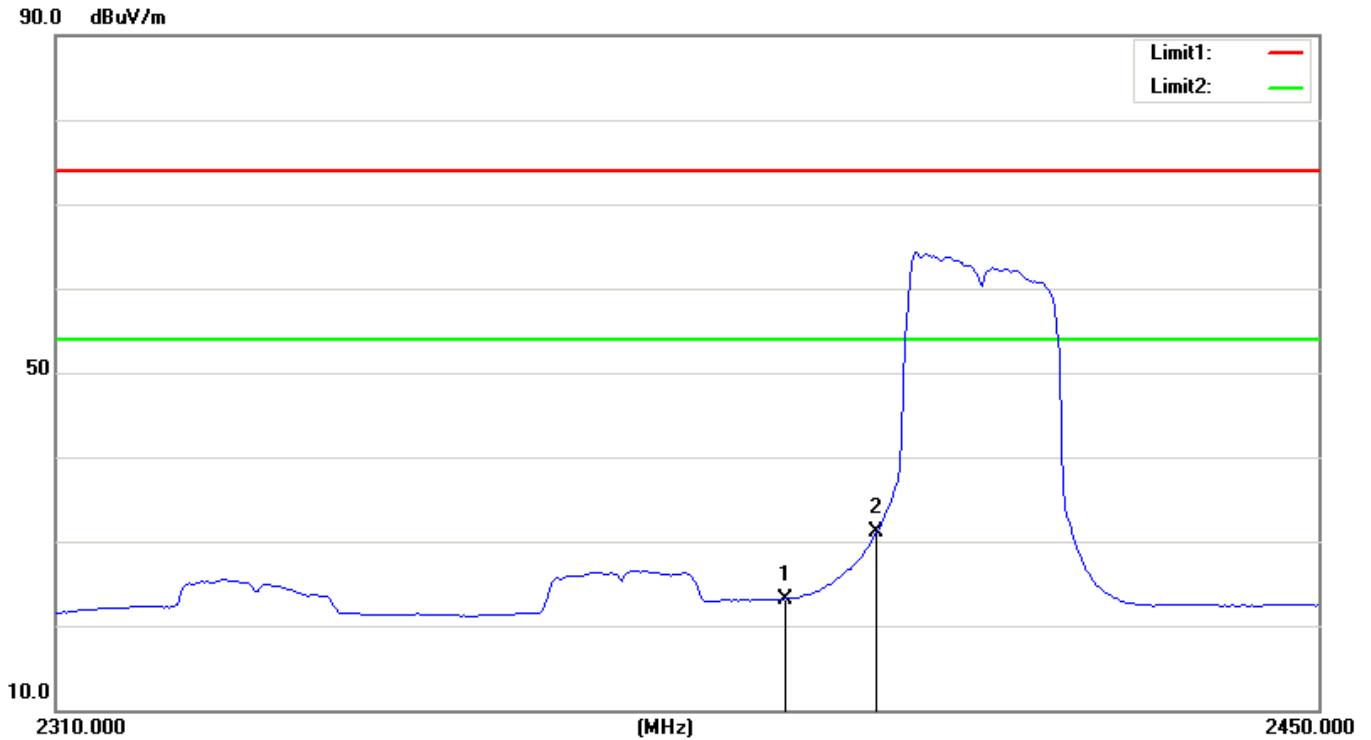
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 2483.500           | 18.76               | 5.60                    | 24.36              | 54.00             | -29.64         | AVG    |
| 2   | 2500.000           | 22.01               | 5.66                    | 27.67              | 54.00             | -26.33         | AVG    |

|                         |                                 |                      |                     |
|-------------------------|---------------------------------|----------------------|---------------------|
| <b>Project No.:</b>     | <b>ZJ00029362</b>               | <b>Polarization:</b> | <b>Vertical</b>     |
| <b>Standard:</b>        | <b>(RE)FCC PART 15.247_PEAK</b> | <b>Power Source:</b> | <b>AC 120V/60Hz</b> |
| <b>Test item:</b>       | <b>Radiation Test</b>           | <b>Date:</b>         | <b>2013-6-8</b>     |
| <b>Temp./Hum.(%RH):</b> | <b>22/46%RH</b>                 | <b>Time:</b>         | <b>10:10:09</b>     |
| <b>EUT:</b>             | <b>BLU-RAY DISC SYSTEM</b>      | <b>Distance:</b>     | <b>3m</b>           |
| <b>Model:</b>           | <b>BDS 580-airplay</b>          | <b>Test Result:</b>  | <b>Pass</b>         |
| <b>Note:</b>            | <b>802.11g 2412</b>             |                      |                     |



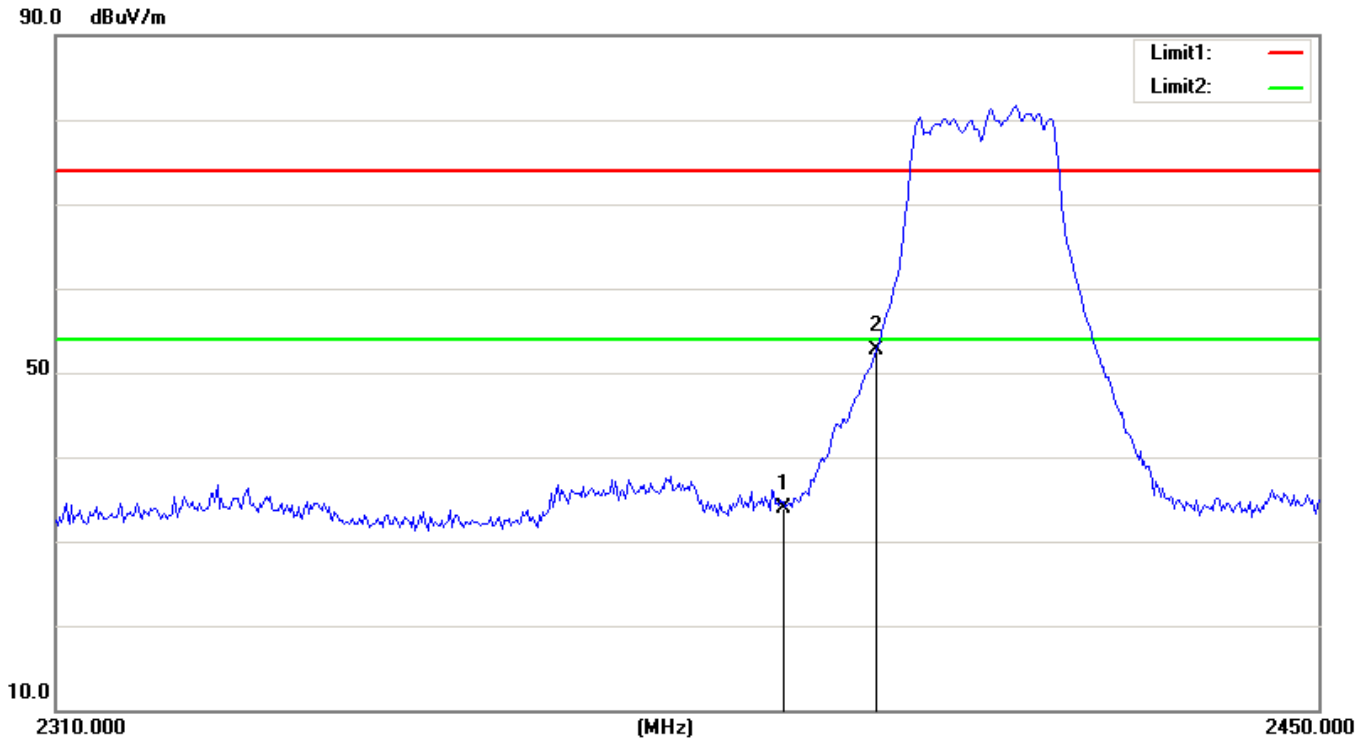
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 2390.000           | 28.89               | 5.25                    | 34.14              | 74.00             | -39.86         | peak   |
| 2   | 2400.000           | 44.73               | 5.29                    | 50.02              | 74.00             | -23.98         | peak   |

|                         |                                |                      |                     |
|-------------------------|--------------------------------|----------------------|---------------------|
| <b>Project No.:</b>     | <b>ZJ00029362</b>              | <b>Polarization:</b> | <b>Vertical</b>     |
| <b>Standard:</b>        | <b>(RE)FCC PART 15.247_AVG</b> | <b>Power Source:</b> | <b>AC 120V/60Hz</b> |
| <b>Test item:</b>       | <b>Radiation Test</b>          | <b>Date:</b>         | <b>2013-6-8</b>     |
| <b>Temp./Hum.(%RH):</b> | <b>22/46%RH</b>                | <b>Time:</b>         | <b>10:11:45</b>     |
| <b>EUT:</b>             | <b>BLU-RAY DISC SYSTEM</b>     | <b>Distance:</b>     | <b>3m</b>           |
| <b>Model:</b>           | <b>BDS 580-airplay</b>         | <b>Test Result:</b>  | <b>Pass</b>         |
| <b>Note:</b>            | <b>802.11g 2412</b>            |                      |                     |



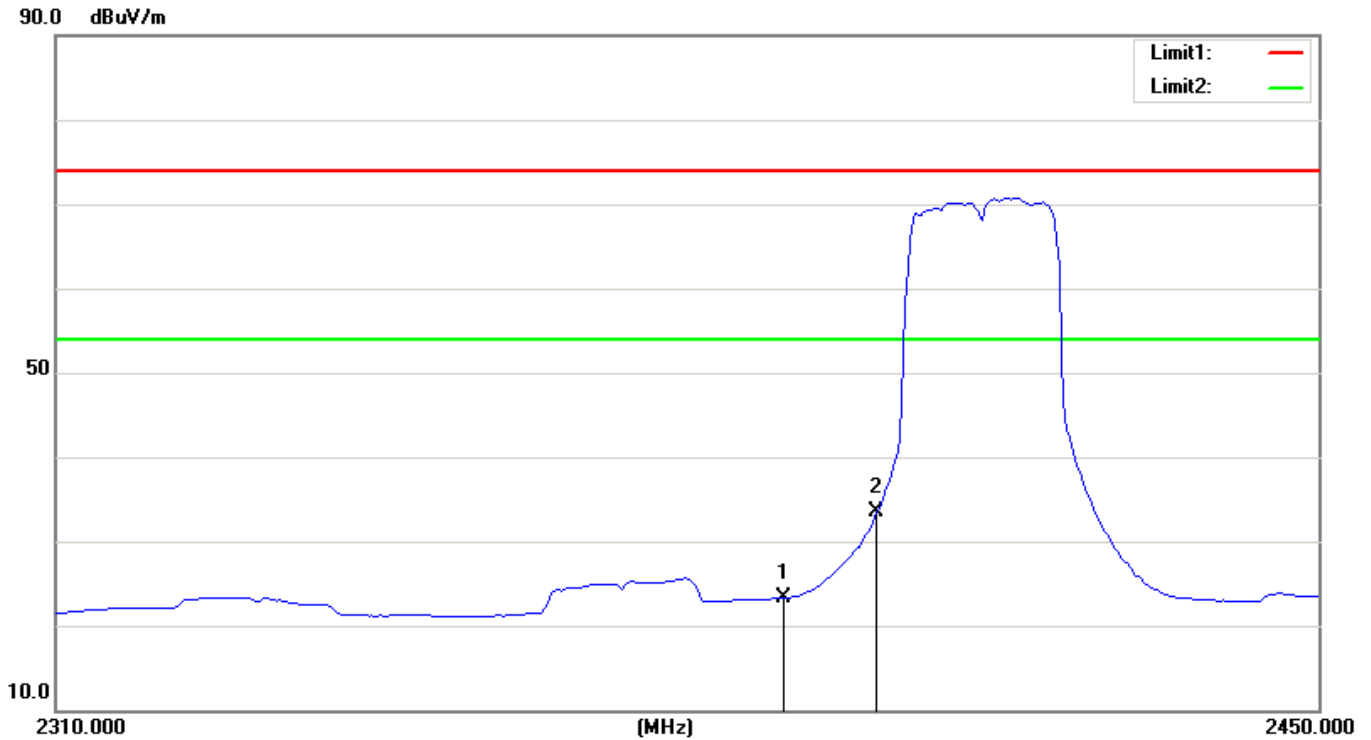
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 2390.000           | 17.95               | 5.25                    | 23.20              | 54.00             | -30.80         | AVG    |
| 2   | 2400.000           | 25.82               | 5.29                    | 31.11              | 54.00             | -22.89         | AVG    |

|                         |                                 |                      |                     |
|-------------------------|---------------------------------|----------------------|---------------------|
| <b>Project No.:</b>     | <b>ZJ00029362</b>               | <b>Polarization:</b> | <b>Horizontal</b>   |
| <b>Standard:</b>        | <b>(RE)FCC PART 15.247_PEAK</b> | <b>Power Source:</b> | <b>AC 120V/60Hz</b> |
| <b>Test item:</b>       | <b>Radiation Test</b>           | <b>Date:</b>         | <b>2013-6-8</b>     |
| <b>Temp./Hum.(%RH):</b> | <b>22/46%RH</b>                 | <b>Time:</b>         | <b>10:13:42</b>     |
| <b>EUT:</b>             | <b>BLU-RAY DISC SYSTEM</b>      | <b>Distance:</b>     | <b>3m</b>           |
| <b>Model:</b>           | <b>BDS 580-airplay</b>          | <b>Test Result:</b>  | <b>Pass</b>         |
| <b>Note:</b>            | <b>802.11g 2412</b>             |                      |                     |



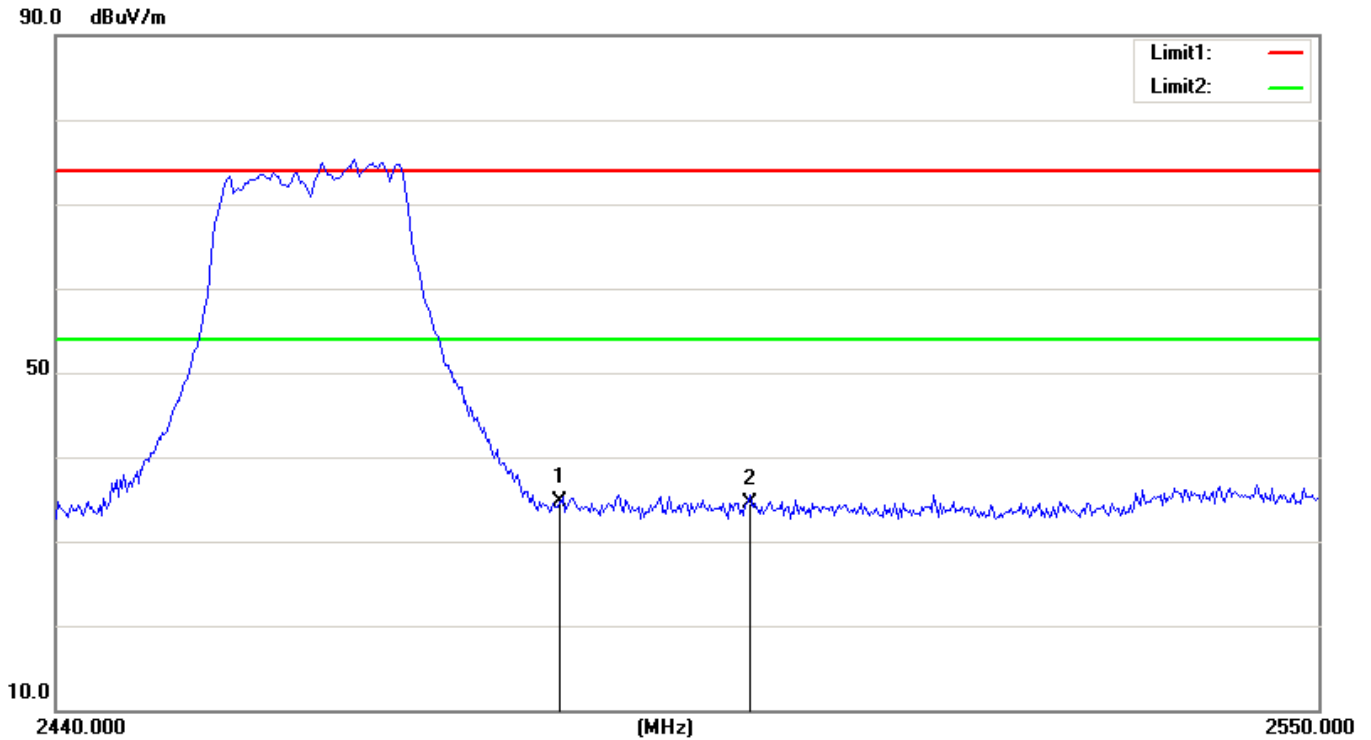
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 2390.000           | 28.75               | 5.25                    | 34.00              | 74.00             | -40.00         | peak   |
| 2   | 2400.000           | 47.35               | 5.29                    | 52.64              | 74.00             | -21.36         | peak   |

|                         |                                 |                      |                     |
|-------------------------|---------------------------------|----------------------|---------------------|
| <b>Project No.:</b>     | <b>ZJ00029362</b>               | <b>Polarization:</b> | <b>Horizontal</b>   |
| <b>Standard:</b>        | <b>(RE)FCC PART 15.247_ AVG</b> | <b>Power Source:</b> | <b>AC 120V/60Hz</b> |
| <b>Test item:</b>       | <b>Radiation Test</b>           | <b>Date:</b>         | <b>2013-6-8</b>     |
| <b>Temp./Hum.(%RH):</b> | <b>22/46%RH</b>                 | <b>Time:</b>         | <b>10:13:09</b>     |
| <b>EUT:</b>             | <b>BLU-RAY DISC SYSTEM</b>      | <b>Distance:</b>     | <b>3m</b>           |
| <b>Model:</b>           | <b>BDS 580-airplay</b>          | <b>Test Result:</b>  | <b>Pass</b>         |
| <b>Note:</b>            | <b>802.11g 2412</b>             |                      |                     |



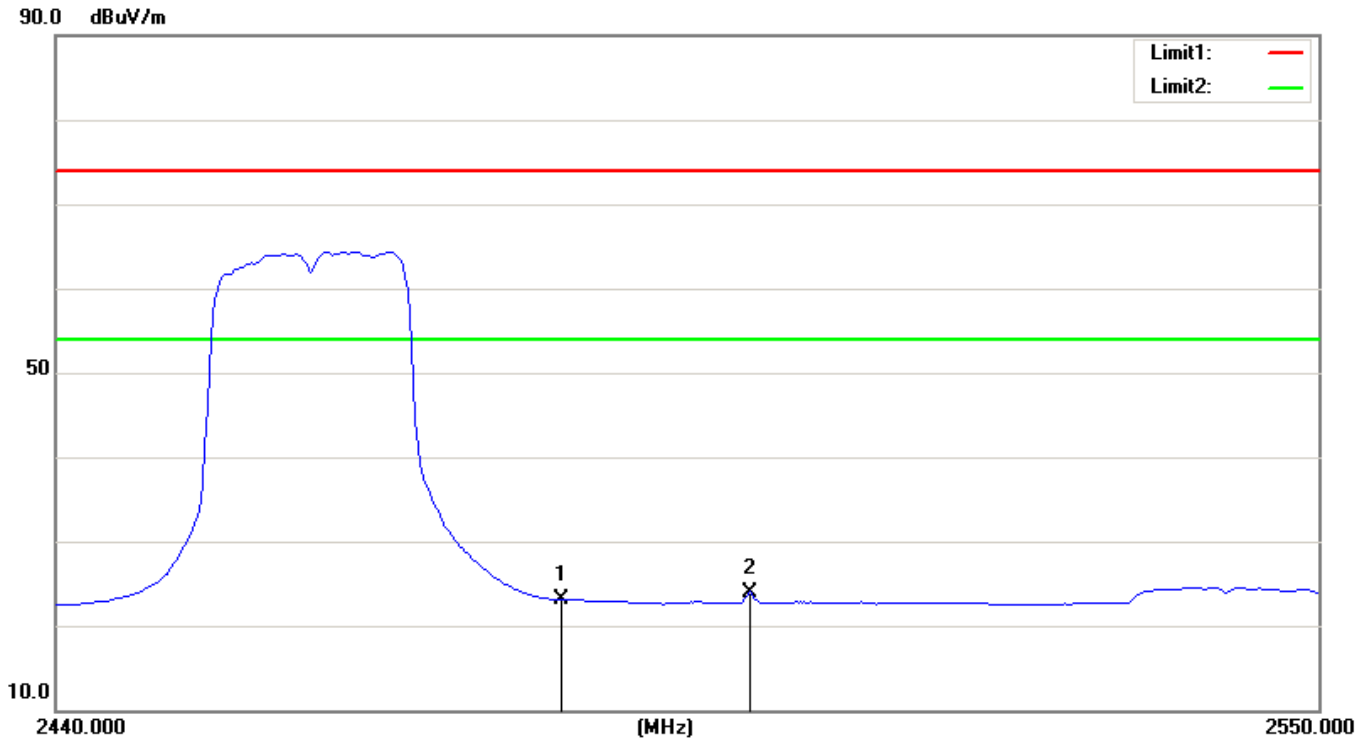
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 2390.000           | 18.05               | 5.25                    | 23.30              | 54.00             | -30.70         | AVG    |
| 2   | 2400.000           | 28.12               | 5.29                    | 33.41              | 54.00             | -20.59         | AVG    |

|                         |                                 |                      |                     |
|-------------------------|---------------------------------|----------------------|---------------------|
| <b>Project No.:</b>     | <b>ZJ00029362</b>               | <b>Polarization:</b> | <b>Vertical</b>     |
| <b>Standard:</b>        | <b>(RE)FCC PART 15.247_PEAK</b> | <b>Power Source:</b> | <b>AC 120V/60Hz</b> |
| <b>Test item:</b>       | <b>Radiation Test</b>           | <b>Date:</b>         | <b>2013-6-8</b>     |
| <b>Temp./Hum.(%RH):</b> | <b>22/46%RH</b>                 | <b>Time:</b>         | <b>10:07:36</b>     |
| <b>EUT:</b>             | <b>BLU-RAY DISC SYSTEM</b>      | <b>Distance:</b>     | <b>3m</b>           |
| <b>Model:</b>           | <b>BDS 580-airplay</b>          | <b>Test Result:</b>  | <b>Pass</b>         |
| <b>Note:</b>            | <b>802.11g 2462</b>             |                      |                     |



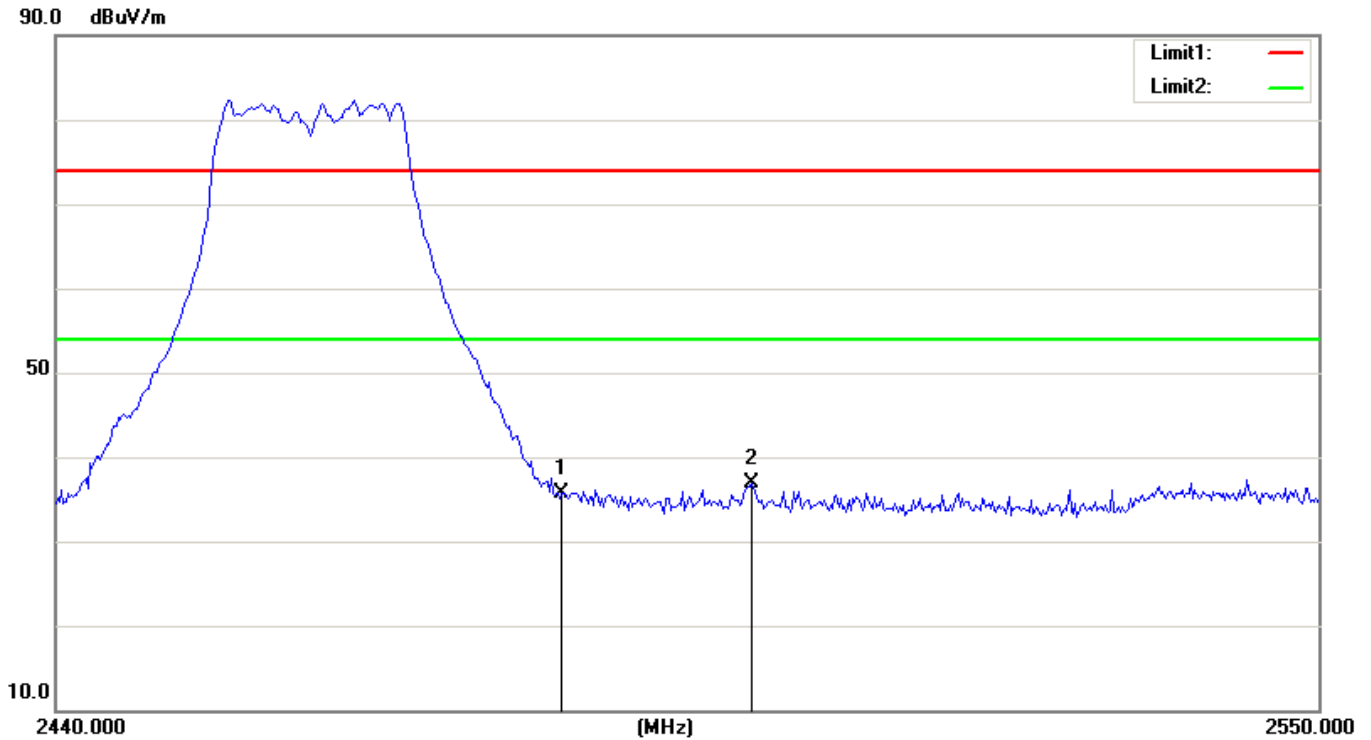
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 2483.500           | 29.19               | 5.60                    | 34.79              | 74.00             | -39.21         | peak   |
| 2   | 2500.000           | 28.78               | 5.66                    | 34.44              | 74.00             | -39.56         | peak   |

|                         |                                 |                      |                     |
|-------------------------|---------------------------------|----------------------|---------------------|
| <b>Project No.:</b>     | <b>ZJ00029362</b>               | <b>Polarization:</b> | <b>Vertical</b>     |
| <b>Standard:</b>        | <b>(RE)FCC PART 15.247_ AVG</b> | <b>Power Source:</b> | <b>AC 120V/60Hz</b> |
| <b>Test item:</b>       | <b>Radiation Test</b>           | <b>Date:</b>         | <b>2013-6-8</b>     |
| <b>Temp./Hum.(%RH):</b> | <b>22/46%RH</b>                 | <b>Time:</b>         | <b>10:04:47</b>     |
| <b>EUT:</b>             | <b>BLU-RAY DISC SYSTEM</b>      | <b>Distance:</b>     | <b>3m</b>           |
| <b>Model:</b>           | <b>BDS 580-airplay</b>          | <b>Test Result:</b>  | <b>Pass</b>         |
| <b>Note:</b>            | <b>802.11g 2462</b>             |                      |                     |



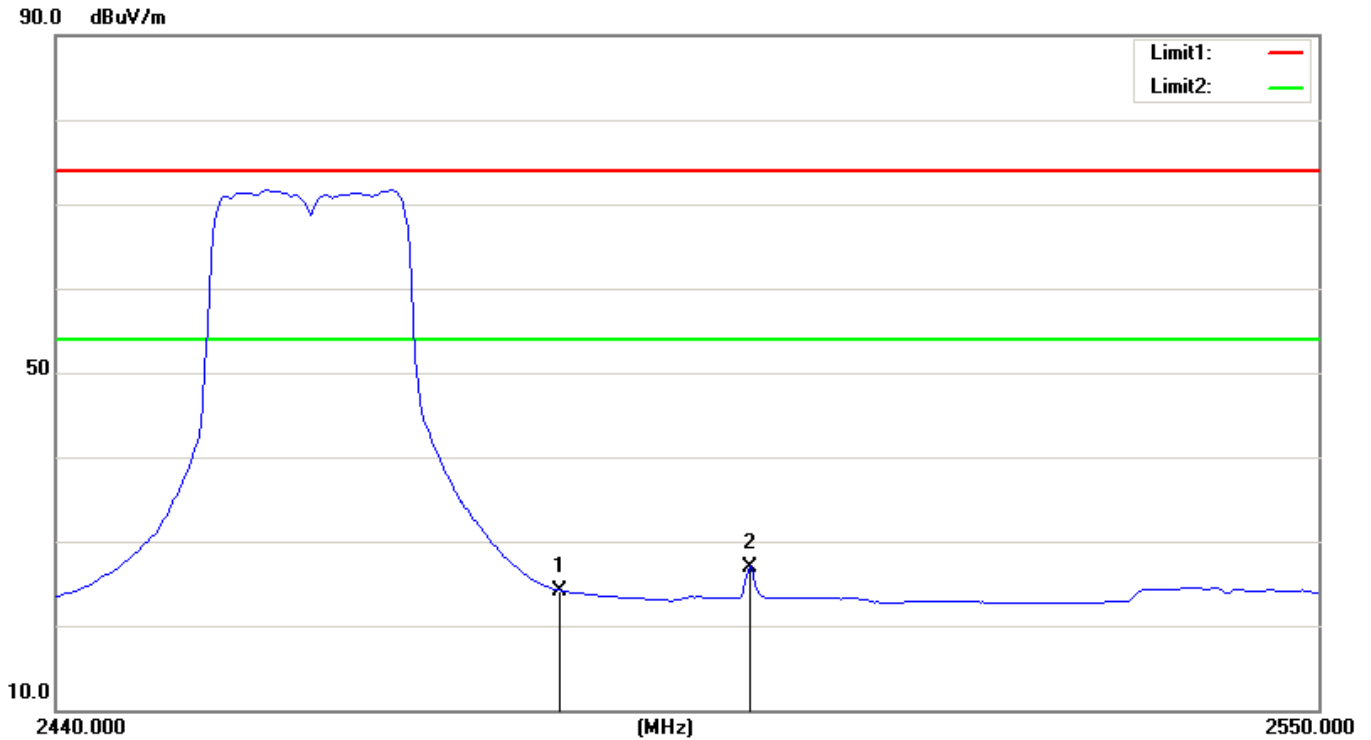
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 2483.500           | 17.51               | 5.60                    | 23.11              | 54.00             | -30.89         | AVG    |
| 2   | 2500.000           | 18.29               | 5.66                    | 23.95              | 54.00             | -30.05         | AVG    |

|                         |                                 |                      |                     |
|-------------------------|---------------------------------|----------------------|---------------------|
| <b>Project No.:</b>     | <b>ZJ00029362</b>               | <b>Polarization:</b> | <b>Horizontal</b>   |
| <b>Standard:</b>        | <b>(RE)FCC PART 15.247_PEAK</b> | <b>Power Source:</b> | <b>AC 120V/60Hz</b> |
| <b>Test item:</b>       | <b>Radiation Test</b>           | <b>Date:</b>         | <b>2013-6-8</b>     |
| <b>Temp./Hum.(%RH):</b> | <b>22/46%RH</b>                 | <b>Time:</b>         | <b>10:02:05</b>     |
| <b>EUT:</b>             | <b>BLU-RAY DISC SYSTEM</b>      | <b>Distance:</b>     | <b>3m</b>           |
| <b>Model:</b>           | <b>BDS 580-airplay</b>          | <b>Test Result:</b>  | <b>Pass</b>         |
| <b>Note:</b>            | <b>802.11g 2462</b>             |                      |                     |



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 2483.500           | 30.07               | 5.60                    | 35.67              | 74.00             | -38.33         | peak   |
| 2   | 2500.000           | 31.31               | 5.66                    | 36.97              | 74.00             | -37.03         | peak   |

|                         |                                 |                      |                     |
|-------------------------|---------------------------------|----------------------|---------------------|
| <b>Project No.:</b>     | <b>ZJ00029362</b>               | <b>Polarization:</b> | <b>Horizontal</b>   |
| <b>Standard:</b>        | <b>(RE)FCC PART 15.247_ AVG</b> | <b>Power Source:</b> | <b>AC 120V/60Hz</b> |
| <b>Test item:</b>       | <b>Radiation Test</b>           | <b>Date:</b>         | <b>2013-6-8</b>     |
| <b>Temp./Hum.(%RH):</b> | <b>22/46%RH</b>                 | <b>Time:</b>         | <b>10:03:37</b>     |
| <b>EUT:</b>             | <b>BLU-RAY DISC SYSTEM</b>      | <b>Distance:</b>     | <b>3m</b>           |
| <b>Model:</b>           | <b>BDS 580-airplay</b>          | <b>Test Result:</b>  | <b>Pass</b>         |
| <b>Note:</b>            | <b>802.11g 2462</b>             |                      |                     |



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 2483.500           | 18.57               | 5.60                    | 24.17              | 54.00             | -29.83         | AVG    |
| 2   | 2500.000           | 21.32               | 5.66                    | 26.98              | 54.00             | -27.02         | AVG    |

**Note: factor =Cable loss+ Space loss-Antenna factor-Amplifier**

## 11. POWER SPECTRAL DENSITY

### 11.1 LIMITS

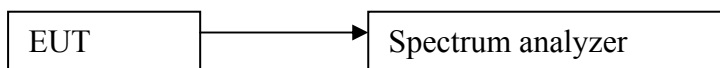
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

### 11.2 TEST PROCEDURES

Test procedures follow KDB 558074 D01 DTS Measurement Guidance v01.

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT was set without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set the analyzer span to 5-30% greater than the EBW. Set the RBW = 100 kHz. Set the VBW  $\geq$  300 kHz. Detector = power average (RMS). Ensure that the number of measurement points in the sweep  $\geq 2 \times \text{span/RBW}$  (use of a greater number of measurement points than this minimum requirement is recommended). Manually set the sweep time to:  $\geq 10 \times (\text{number of measurement points in sweep}) \times (\text{transmission symbol period})$ . Perform the measurement over a single sweep. Use the peak marker function to determine the maximum level in any 100 kHz band segment within the fundamental EBW.
4. Scale the observed power level to an equivalent level in 3 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where:  $\text{BWCF} = 10 \log (3 \text{ kHz}/100 \text{ kHz}) = -15.2 \text{ dB}$ .
5. Repeat above procedures until all frequencies measured were complete.

### 11.3 TEST SETUP



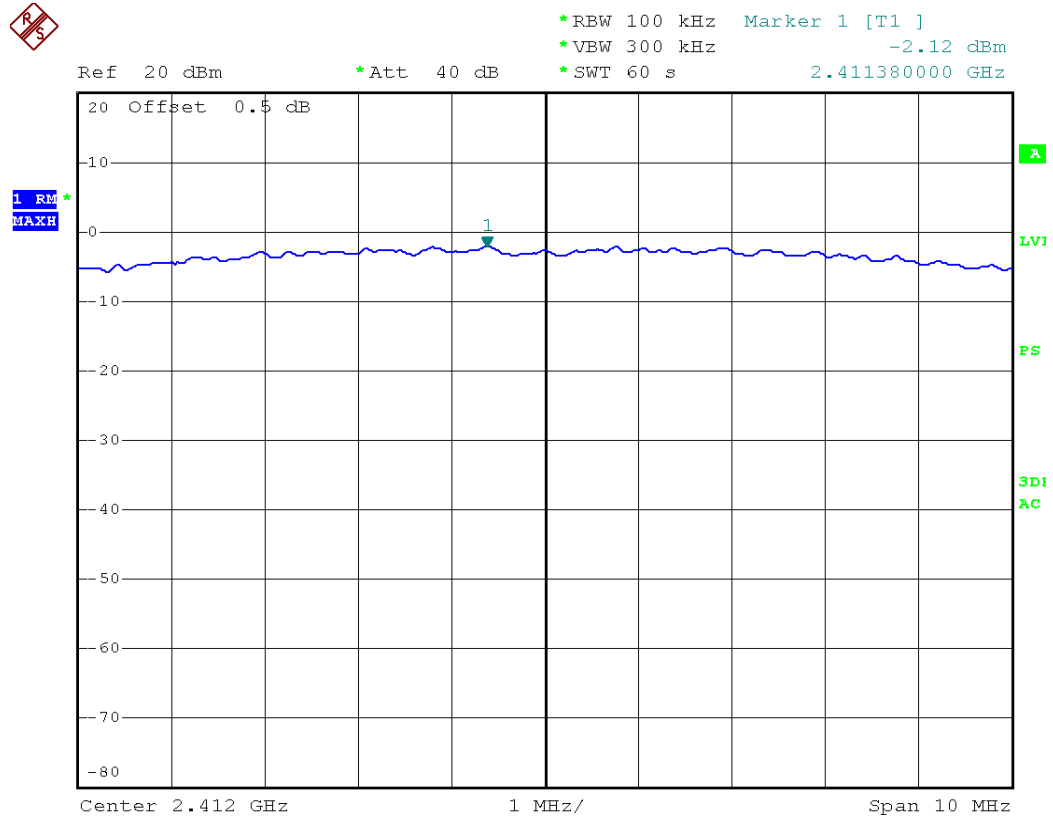
## 11.4 TEST RESULTS

802.11b mode:

| Channel No. | Frequency (MHz) | Mode    | Data Rate | PSD (dBm/100 KHz) | Factor (100kHz/3kHz) (dB) | PSD (dBm/3K Hz) | Limit     | Result |
|-------------|-----------------|---------|-----------|-------------------|---------------------------|-----------------|-----------|--------|
| 1           | 2412            | 802.11b | 11Mbps    | -2.12             | -15.2                     | -17.32          | 8dBm/3KHz | Pass   |
| 6           | 2437            |         |           | -2.08             | -15.2                     | -17.28          |           | Pass   |
| 11          | 2462            |         |           | -2.14             | -15.2                     | -17.34          |           | Pass   |

802.11b mode:

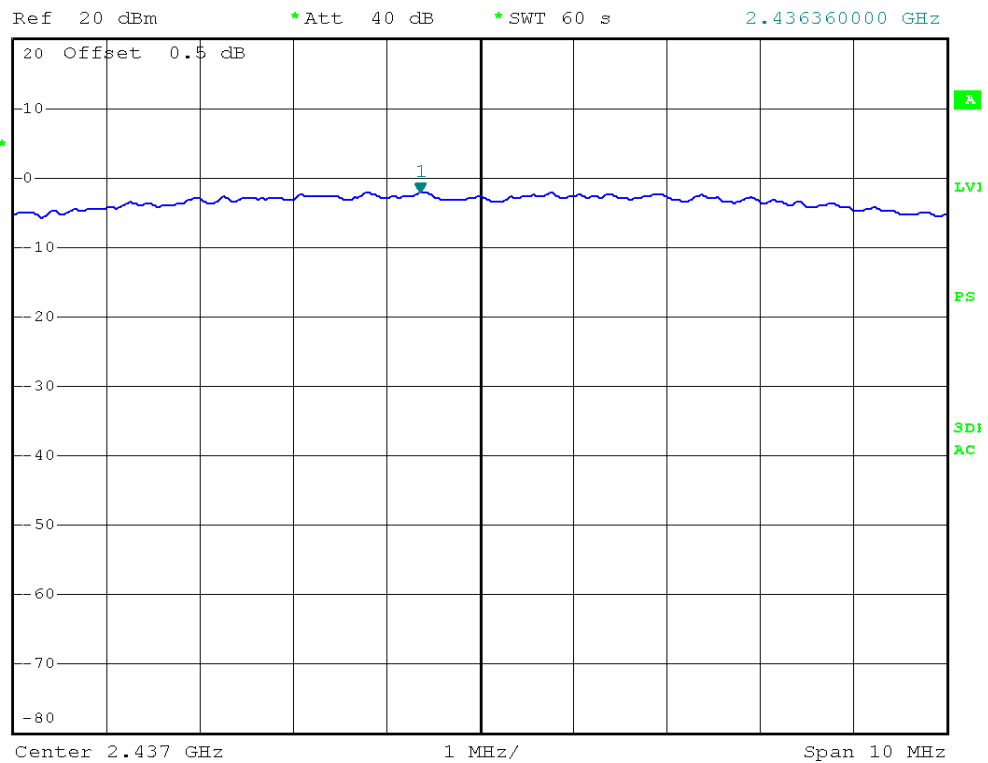
Channel 2412MHz



## Channel 2437MHz



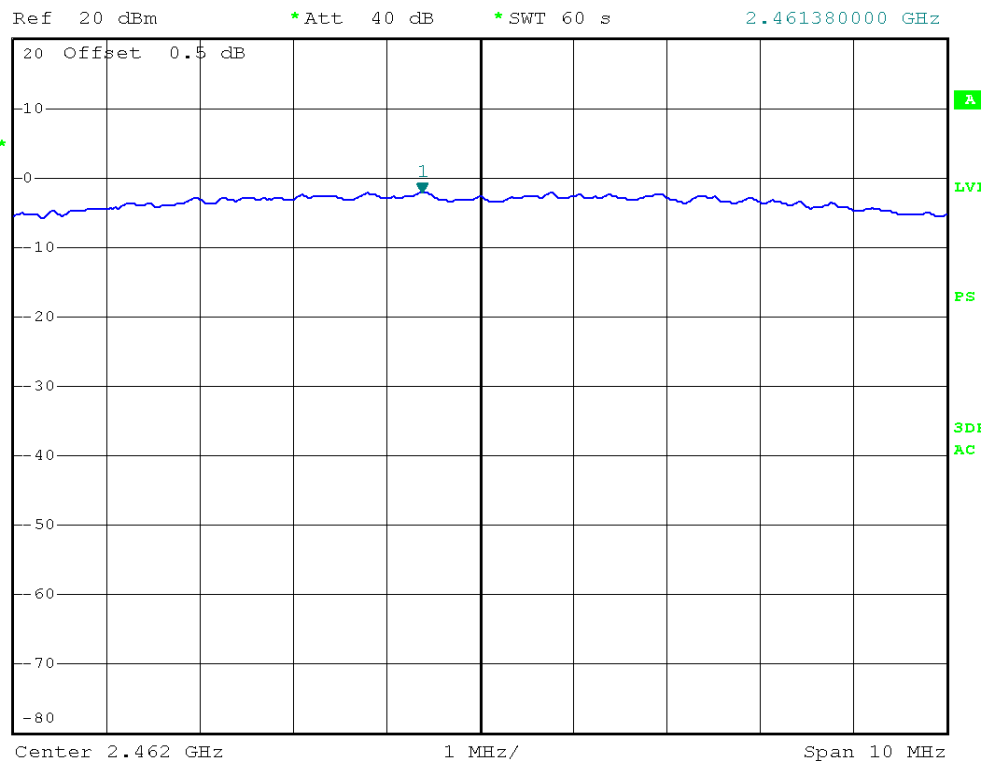
\*RBW 100 kHz Marker 1 [T1 ]  
\*VBW 300 kHz -2.08 dBm  
\*SWT 60 s 2.436360000 GHz



## Channel 2462MHz



\*RBW 100 kHz Marker 1 [T1 ]  
\*VBW 300 kHz -2.14 dBm  
\*SWT 60 s 2.461380000 GHz

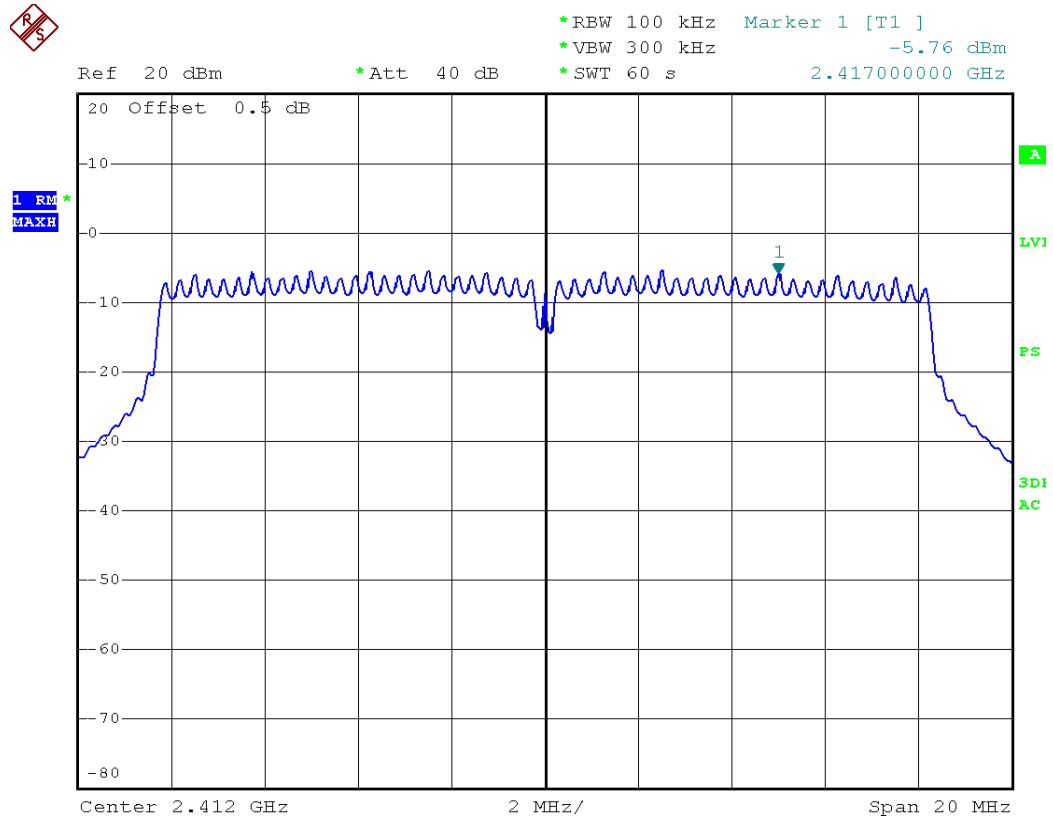


802.11g mode:

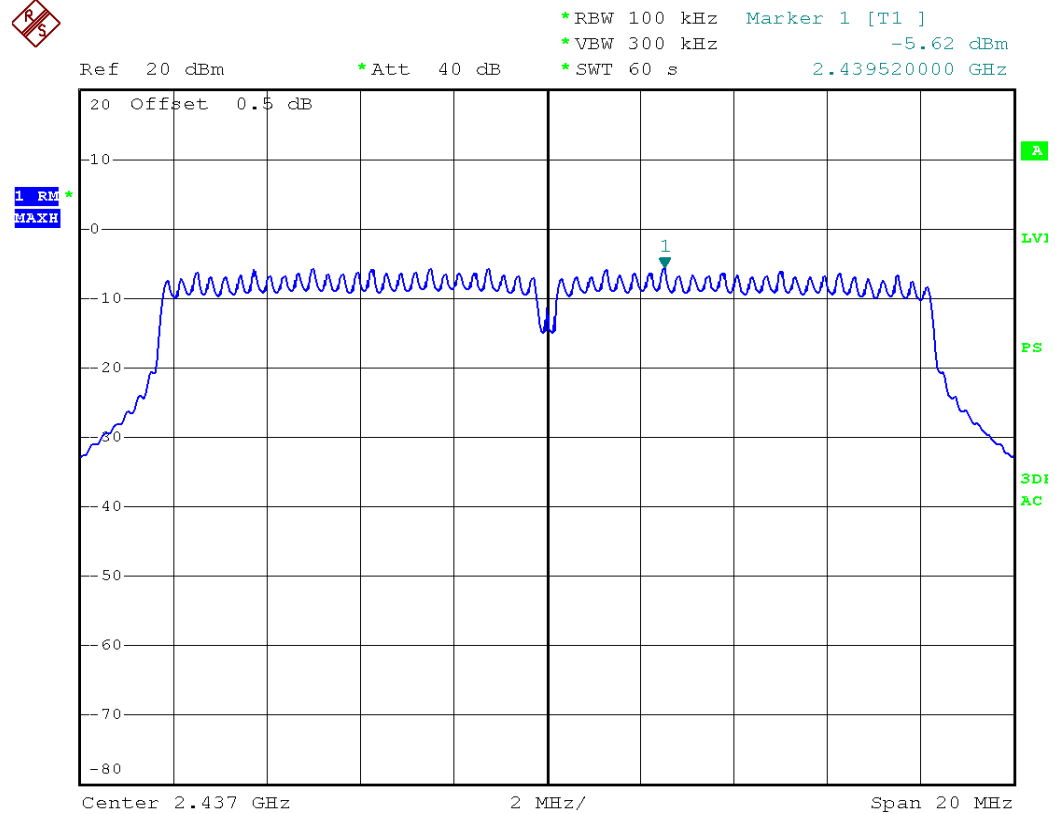
| Channel No. | Frequency (MHz) | Mode    | Data Rate | PSD (dBm/100 KHz) | Factor (100kHz/3kHz) (dB) | PSD (dBm/3K Hz) | Limit     | Result |
|-------------|-----------------|---------|-----------|-------------------|---------------------------|-----------------|-----------|--------|
| 1           | 2412            | 802.11g | 54Mbps    | -5.76             | -15.2                     | -20.96          | 8dBm/3KHz | Pass   |
| 6           | 2437            |         |           | -5.62             | -15.2                     | -20.82          |           | Pass   |
| 11          | 2462            |         |           | -5.65             | -15.2                     | -20.85          |           | Pass   |

802.11g mode:

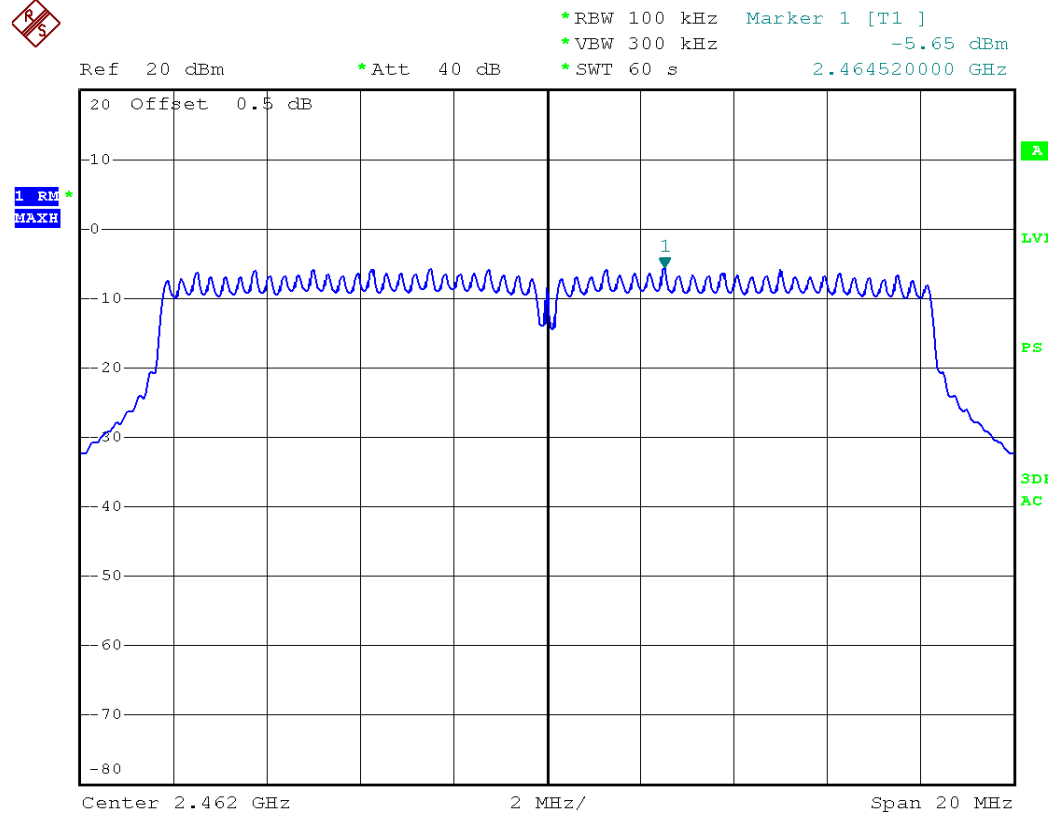
Channel 2412MHz



## Channel 2437MHz



## Channel 2462MHz



-----This is the last page of the report. -----