

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Product Name: Bluetooth Controller

Brand Name: Dragonframe

Model No.: DFB01

Model Difference: N/A

FCC ID: GM8DFB01

Report No.: E2/2016/B0038

Issue Date: Dec. 14, 2016

FCC Rule Part: §15.247, Cat: DSS

Prepared for: ORtek Technology Inc
13F, Number 150, Jian-Yi Rd., Zhonghe
Dist., New Taipei City, Taiwan

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VERIFICATION OF COMPLIANCE

Applicant: ORtek Technology Inc
13F, Number 150, Jian-Yi Rd., Zhonghe Dist., New Taipei City,
Taiwan

Product Name: Bluetooth Controller

Brand Name: Dragonframe

Model No.: DFB01

Model Difference: N/A

FCC ID: GM8DFB01

File Number: E2/2016/B0038

Date of test: Nov. 29, 2016 ~ Nov. 30, 2016

Date of EUT Received: Nov. 30, 2016

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

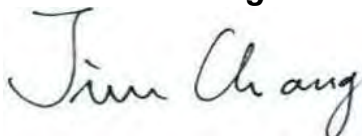
The test results of this report relate only to the tested sample identified in this report.

Test By:**Date:**

Dec. 14, 2016

Jerry Lu / Sr. Engineer**Prepared By:****Date:**

Dec. 14, 2016

Allen Tsai / Engineer**Approved By:****Date:**

Dec. 14, 2016

Jim Chang / Asst. Manager

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Revision History

| Report Number | Revision | Description | Issue Date |
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| E2/2016/B0038 | Rev.00 | Initial creation of document | Dec. 14, 2016 |
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1 GENERAL INFORMATION

1.1 Product description

General:

| | |
|-------------------|----------------------|
| Product Name: | Bluetooth Controller |
| Brand Name: | Dragonframe |
| Model No.: | DFB01 |
| Model Difference: | N/A |
| Hardware Version: | N/A |
| Software Version: | N/A |
| Power Supply: | 3Vdc from AA battery |

Bluetooth_BR only:

| | |
|----------------------|---|
| Bluetooth Version: | V3.0 |
| Channel number: | 79 channels |
| Modulation type: | GFSK |
| Transmit Power: | -2.34 dBm |
| Frequency Range: | 2.402GHz – 2.480GHz |
| Dwell Time: | <= 0.4s |
| Antenna Designation: | 3216 Ceramic Chip Antenna, Gain: 5.16 dBi |

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1.2 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC Public Notice DA 00-705 Measurement Guidelines

ANSI C63.10:2013

Note: All test items have been performed and record as per the above standards.

1.3 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd.,
Guishan District, Taoyuan City, Taiwan 333 (TAF code 0513)

FCC Registration Numbers are: 735305

1.4 Special Accessories

There is no special accessory used while test was conducted.

1.5 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a turn table which is 0.8 m above ground plan. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz. The CISPR Quasi-Peak and Average detector mode is employed according to §15.207. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plan. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated

emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Following shows an offset computation example with cable loss 1.3dB and splitter 3.2dB splitter.

Offset = RF cable loss (dB) + splitter(dB) = 1.1 + 3.2 = 4.3(dB)

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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission

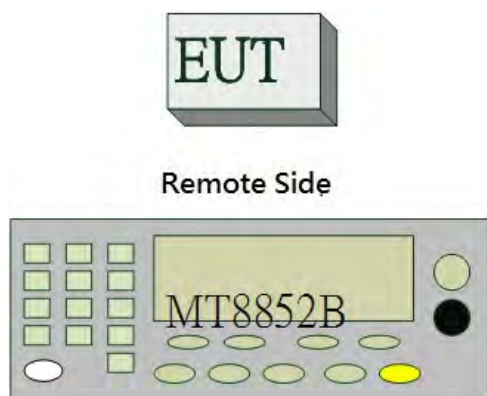


Fig. 2-2 Conducted (Antenna Port) Configuration

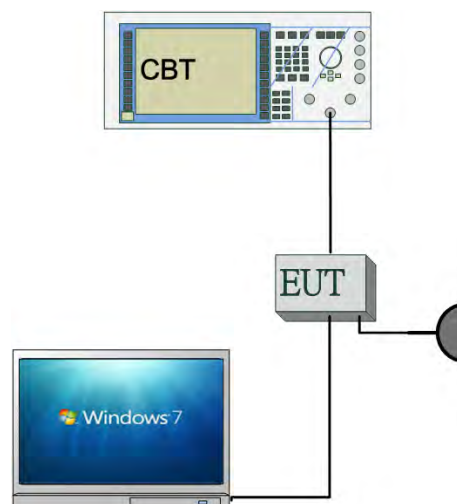


Table 2-1 Equipment Used in Tested System

| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. | Data Cable | Power Cord |
|------|-------------------------|-----------|----------------|------------|------------|------------|
| 1 | Bluetooth Test Software | N/A | N/A | N/A | N/A | N/A |
| 2 | Bluetooth Tester | R&S | CBT | 101140 | N/A | N/A |

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3 SUMMARY OF TEST RESULTS

| FCC Rules | Description Of Test | Result |
|-----------------------|---|-----------|
| §15.207(a) | AC Power Line Conducted Emission | N / A |
| §15.247(b)(1) | Peak Output Power | Compliant |
| §15.247(a)(1) | 20dB & 99% Bandwidth | Compliant |
| §15.247(d) | Conducted Band Edge and Spurious Emission | Compliant |
| §15.247(d) | Radiated Band Edge and Spurious Emission | Compliant |
| §15.247(a)(1) | Frequency Separation | Compliant |
| §15.247(a)(1)(iii) | Number of hopping frequency | Compliant |
| §15.247(a)(1)(iii) | Time of Occupancy | Compliant |
| §15.203 §15.247(b) | Antenna Requirement | Compliant |

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4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

79 channels are provided for Bluetooth

| CH | FREQUENCY | CH | FREQUENCY | CH | FREQUENCY | CH | FREQUENCY |
|----|-----------|----|-----------|----|-----------|----|-----------|
| 0 | 2402 MHz | 20 | 2422 MHz | 40 | 2442 MHz | 70 | 2462 MHz |
| 1 | 2403 MHz | 21 | 2423 MHz | 41 | 2443 MHz | 71 | 2463 MHz |
| 2 | 2404 MHz | 22 | 2424 MHz | 42 | 2444 MHz | 72 | 2464 MHz |
| 3 | 2405 MHz | 23 | 2425 MHz | 43 | 2445 MHz | 73 | 2465 MHz |
| 4 | 2406 MHz | 24 | 2426 MHz | 44 | 2446 MHz | 74 | 2466 MHz |
| 5 | 2407 MHz | 25 | 2427 MHz | 45 | 2447 MHz | 75 | 2467 MHz |
| 6 | 2408 MHz | 26 | 2428 MHz | 46 | 2448 MHz | 76 | 2468 MHz |
| 7 | 2409 MHz | 27 | 2429 MHz | 47 | 2449 MHz | 77 | 2469 MHz |
| 8 | 2410 MHz | 28 | 2430 MHz | 48 | 2450 MHz | 78 | 2470 MHz |
| 9 | 2411 MHz | 29 | 2431 MHz | 49 | 2451 MHz | 79 | 2471 MHz |
| 10 | 2412 MHz | 30 | 2432 MHz | 50 | 2452 MHz | 70 | 2472 MHz |
| 11 | 2413 MHz | 31 | 2433 MHz | 51 | 2453 MHz | 71 | 2473 MHz |
| 12 | 2414 MHz | 32 | 2434 MHz | 52 | 2454 MHz | 72 | 2474 MHz |
| 13 | 2415 MHz | 33 | 2435 MHz | 53 | 2455 MHz | 73 | 2475 MHz |
| 14 | 2416 MHz | 34 | 2436 MHz | 54 | 2456 MHz | 74 | 2476 MHz |
| 15 | 2417 MHz | 35 | 2437 MHz | 55 | 2457 MHz | 75 | 2477 MHz |
| 16 | 2418 MHz | 36 | 2438 MHz | 56 | 2458 MHz | 76 | 2478 MHz |
| 17 | 2419 MHz | 37 | 2439 MHz | 57 | 2459 MHz | 77 | 2479 MHz |
| 18 | 2420 MHz | 38 | 2440 MHz | 58 | 2460 MHz | 78 | 2480 MHz |
| 19 | 2421 MHz | 39 | 2441 MHz | 59 | 2461 MHz | | |

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4.2 The Worst Test Modes and Channel Details

- 1 The EUT has been tested under operating condition.
- 2 Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
- 3 Investigation has been done on all the possible configurations for searching the worst case.

RADIATED EMISSION TEST:

| RADIATED EMISSION TEST (BELOW 1 GHz) | | | | | |
|--------------------------------------|-------------------|----------------|------------|-------------|--------------|
| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | PACKET TYPE | ANTENNA PORT |
| Bluetooth | 0 to 78 | 0,39,78 | GFSK | DH5 | MAIN |
| RADIATED EMISSION TEST (ABOVE 1 GHz) | | | | | |
| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | PACKET TYPE | ANTENNA PORT |
| Bluetooth | 0 to 78 | 0,39,78 | GFSK | DH5 | MAIN |

Note:

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for Bluetooth BR only Transmitter for channel Low, Mid and High, the worst case H position was reported.

ANTENNA PORT CONDUCTED MEASUREMENT:

| CONDUCTED TEST | | | | | |
|------------------------------------|-------------------|----------------|------------|-------------|--------------|
| Peak Output Power, 20dB Band Width | | | | | |
| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | PACKET TYPE | ANTENNA PORT |
| Bluetooth | 0 to 78 | 0,39,78 | GFSK | DH5 | MAIN |
| Band Edge | | | | | |
| Bluetooth | 0 to 78 | 0,78 | GFSK | DH5 | MAIN |
| Frequency Separation | | | | | |
| Bluetooth | 0 to 78 | 0,1,2 | GFSK | DH5 | MAIN |
| Number of hopping frequency | | | | | |
| Bluetooth | 0 to 78 | 0 to 78 | GFSK | DH5 | MAIN |
| Time of Occupancy (Dwell time) | | | | | |
| Bluetooth | 0 to 78 | 0,39,78 | GFSK | DH1/DH3/DH5 | MAIN |

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5 MEASUREMENT UNCERTAINTY

| Test Items | Uncertainty |
|---|-----------------------------|
| AC Power Line Conducted Emission | +/- 2.586 dB |
| Peak Output Power | +/- 0.84 dB |
| 20dB Bandwidth | +/- 51.33 Hz |
| 100 KHz Bandwidth Of Frequency Band Edges | +/- 0.84 dB |
| Frequency Separation | +/- 51.33 Hz |
| Number of hopping frequency | +/- 51.33 Hz |
| Time of Occupancy | +/- 51.33 Hz |
| Temperature | +/- 0.65 °C |
| Humidity | +/- 4.6 % |
| DC / AC Power Source | DC= +/- 0.13%, AC= +/- 0.2% |

Radiated Spurious Emission:

| | |
|--|----------------------------|
| Measurement uncertainty (Polarization : Vertical) | 9kHz – 30MHz: +/- 2.87 dB |
| | 30MHz - 180MHz: +/- 3.37dB |
| | 180MHz -417MHz: +/- 3.19dB |
| | 0.417GHz-1GHz: +/- 3.19dB |
| | 1GHz - 18GHz: +/- 4.04dB |
| | 18GHz - 40GHz: +/- 4.04dB |

| | |
|--|----------------------------|
| Measurement uncertainty (Polarization : Horizontal) | 9kHz – 30MHz: +/- 2.87 dB |
| | 30MHz - 167MHz: +/- 4.22dB |
| | 167MHz -500MHz: +/- 3.44dB |
| | 0.5GHz-1GHz: +/- 3.39dB |
| | 1GHz - 18GHz: +/- 4.08dB |
| | 18GHz - 40GHz: +/- 4.08dB |

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

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6 CONDUCTED EMISSION TEST

6.1 Standard Applicable

Frequency within 150 kHz to 30MHz shall not exceed the limit table as below.

| Frequency range MHz | Limits dB(uV) | |
|---|------------------|----------|
| | Quasi-peak | Average |
| 0.15 to 0.50 | 66 to 56 | 56 to 46 |
| 0.50 to 5 | 56 | 46 |
| 5 to 30 | 60 | 50 |
| Note | | |
| 1.The lower limit shall apply at the transition frequencies | | |
| 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz. | | |

6.2 Measurement Equipment Used

| Conducted Emission Test Site | | | | | |
|------------------------------|-------------|-------------------|------------------|--------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| EMI Test Re- ceiver | R&S | ESCI 7 | 100950 | 12/08/2015 | 12/07/2016 |
| Coaxial Cables | N/A | N30N30-1042-150cm | N/A | 02/07/2016 | 02/06/2017 |
| LISN | Schwarzbeck | NSLK 8127 | 8127-648 | 03/11/2016 | 03/10/2017 |
| Test Software | Farad | EZ-EMC | Ver. SGS-03A2 | N.C.R. | N.C.R. |

6.3 EUT Setup

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI 63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

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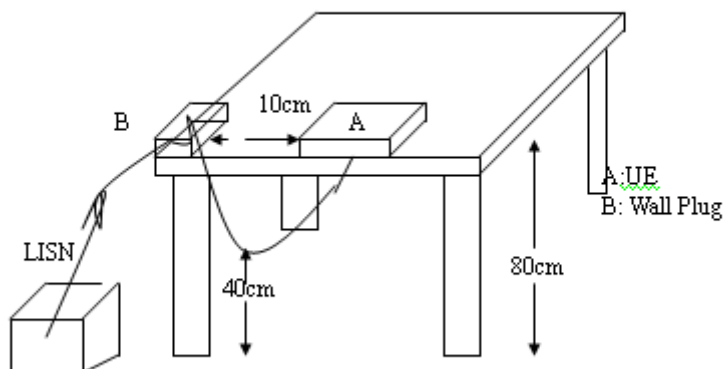
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6.4 Test SET-UP (Block Diagram of Configuration)



6.5 Measurement Procedure

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

6.6 Measurement Result

N/A, this device is powered by battery.

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7 PEAK OUTPUT POWER MEASUREMENT

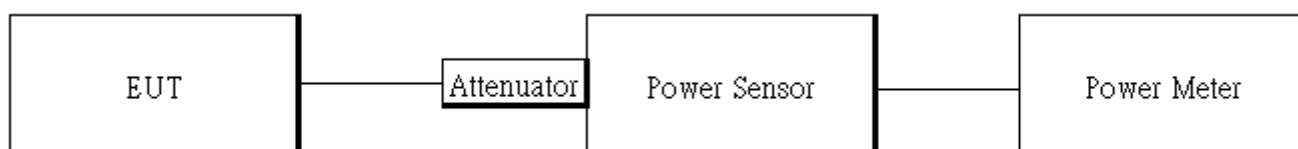
7.1 Standard Applicable

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 hopping channels, The Limit: 1Watt. For all other frequency hopping systems in the 2400 – 2483.5MHz band: The Limit: 0.125 Watts. The power limit for 1Mbps is 1watt, and 2Mbps, 3Mbps and AFH mode are 0.125 watts.

7.2 Measurement Equipment Used

| Conducted Emission Test Site | | | | | |
|------------------------------|-----------|----------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | KEYSIGHT | N9010A | MY54510568 | 04/14/2016 | 04/13/2017 |
| Power Meter | Anritsu | ML2496A | 1326001 | 06/23/2016 | 06/22/2017 |
| Power Sensor | Anritsu | MA2411B | 1315048 | 06/23/2016 | 06/22/2017 |
| Power Sensor | Anritsu | MA2411B | 1315049 | 06/23/2016 | 06/22/2017 |
| Coaxial Cable 30cm | WOKEN | 00100A1F1A195C | RF01 | 12/12/2015 | 12/11/2016 |
| DC Block | PASTERNAK | PE8210 | RF29 | 12/12/2015 | 12/11/2016 |
| Splitter | RF-LAMBDA | RFLT2W1G18G | RF35 | 12/12/2015 | 12/11/2016 |
| Attenuator | WOKEN | 218FS-10 | RF23 | 12/12/2015 | 12/11/2016 |
| DC Power Supply | Agilent | E3640A | MY53140006 | 05/04/2016 | 05/03/2017 |

7.3 Test Set-up:



7.4 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter or spectrum. (Max Hold, Detector = Peak, RBW >=20dB bandwidth)
4. Record the max. reading.
5. Repeat above procedures until all default test channel is completed.

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7.5 Measurement Result

1M BR mode (Peak):

| CH | Freq. (MHz) | Peak Output Power (dBm) | Output Power (mW) | Limit (mW) |
|----|----------------|----------------------------------|-------------------------|---------------|
| 0 | 2402 | -2.34 | 0.583 | 125 |
| 39 | 2441 | -2.75 | 0.531 | 125 |
| 78 | 2480 | -2.86 | 0.518 | 125 |

1M BR mode (Average):

| CH | Freq. (MHz) | Max. Output include tune up tolerance Power (dBm) | Output Power (mW) | Limit (mW) |
|----|----------------|---|-------------------------|---------------|
| 0 | 2402 | -3.33 | 0.465 | 125 |
| 39 | 2441 | -3.79 | 0.418 | 125 |
| 78 | 2480 | -3.88 | 0.409 | 125 |

NOTE: cable loss as 4.3dB that offset

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8 20DB BANDWIDTH MEASUREMENT

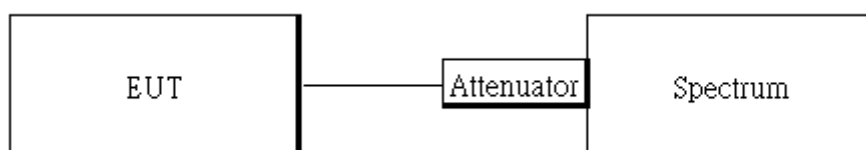
8.1 Standard Applicable

For frequency hopping systems operating in the 2400MHz-2483.5 MHz no limit for 20dB bandwidth.

8.2 Measurement Equipment Used

| Conducted Emission Test Site | | | | | |
|------------------------------|-----------|-----------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | KEYSIGHT | N9010A | MY54510568 | 04/14/2016 | 04/13/2017 |
| DC Block | PASTERNAK | PE8210 | RF29 | 12/12/2015 | 12/11/2016 |
| Splitter | RF-LAMBDA | RFLT2W1G18 G | RF35 | 12/12/2015 | 12/11/2016 |
| Attenuator | WOKEN | 218FS-10 | RF23 | 12/12/2015 | 12/11/2016 |

8.3 Test Set-up



8.4 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set the spectrum analyzer as RBW=10 kHz (1 % of 20 dB Bandwidth.), VBW = 30 kHz, Span= 3MHz, Sweep=auto, Detector = Peak, and Max hold for 20dB Bandwidth test.
5. Mark the peak frequency and -20dB (upper and lower) frequency
6. Repeat above procedures until all test default channel is completed

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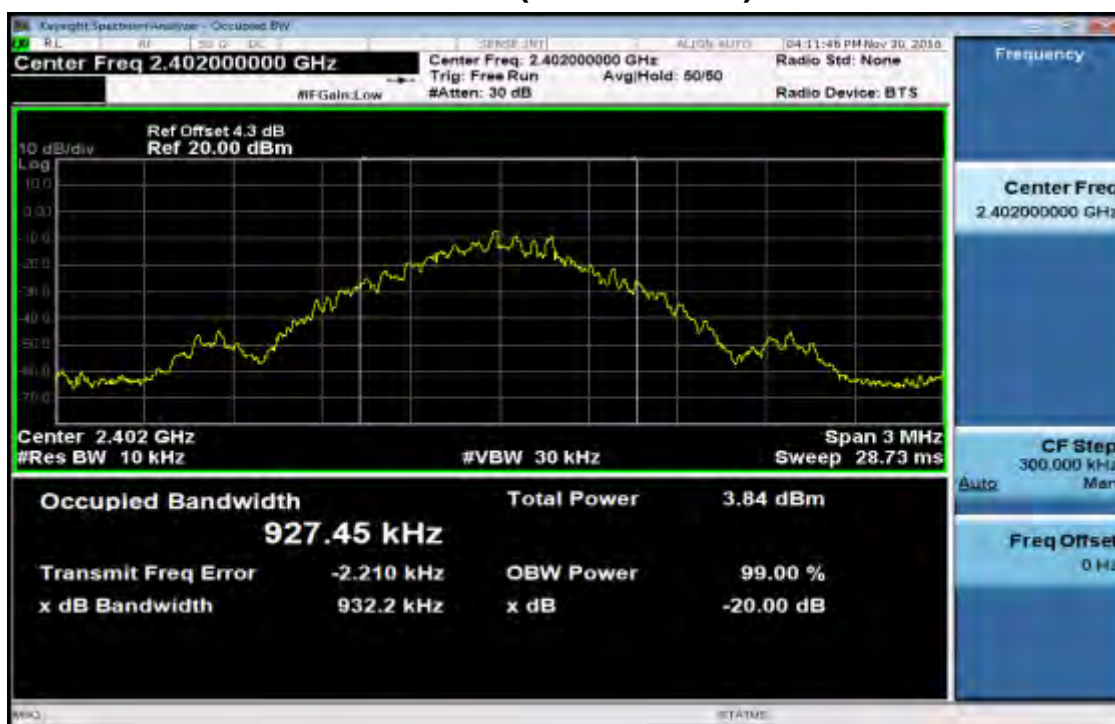
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8.5 Measurement Result

GFSK

| CH | 20 dB BW (MHz) | 2/3 BW (MHz) |
|------|----------------|--------------|
| Low | 0.9322 | 0.62 |
| Mid | 0.9231 | 0.62 |
| High | 0.9199 | 0.61 |

20dB Band Width Test Data CH-Low (GFSK mode)



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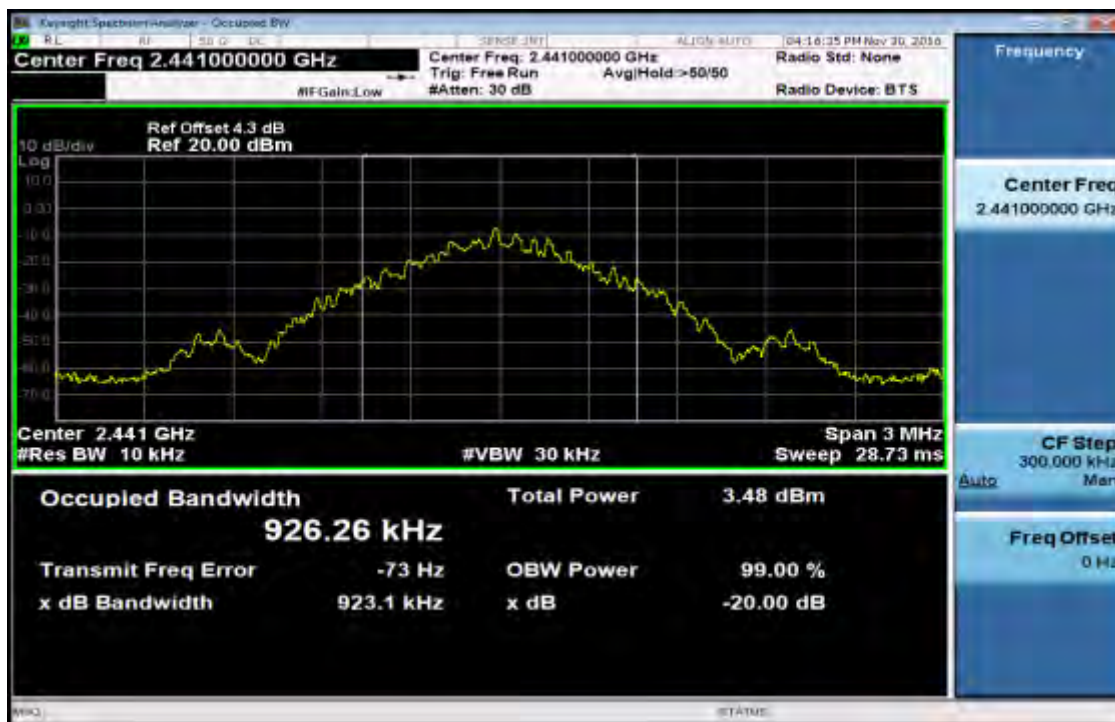
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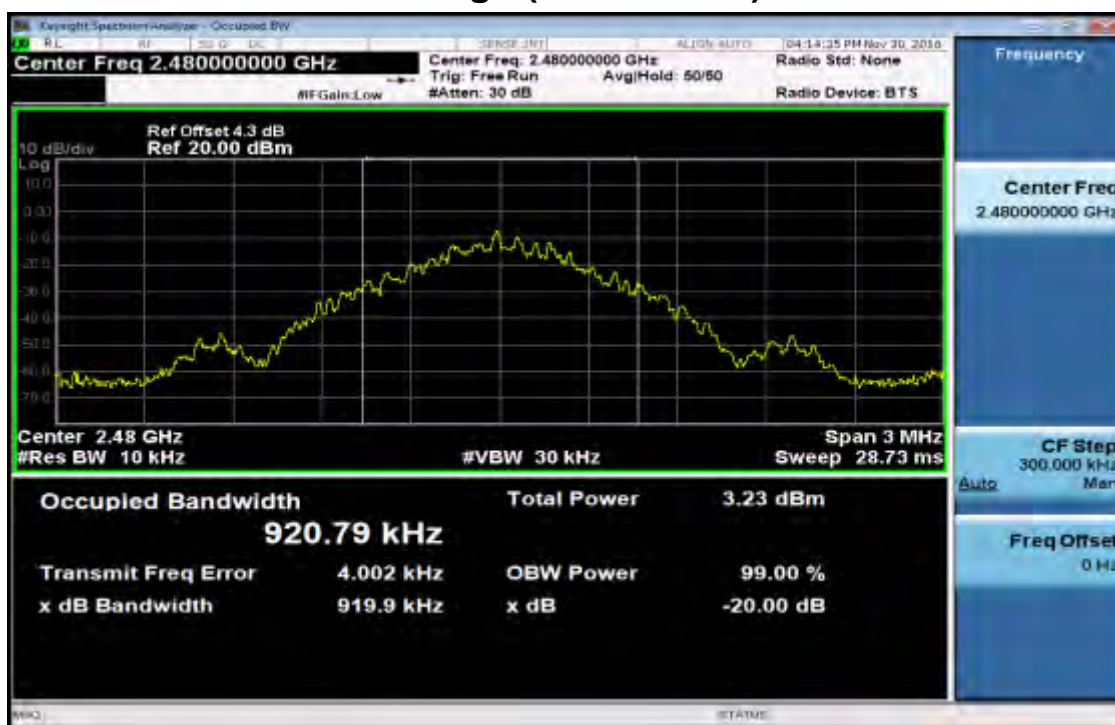
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20dB Band Width Test Data CH-Mid (GFSK mode)



20dB Band Width Test Data CH-High (GFSK mode)



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9 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

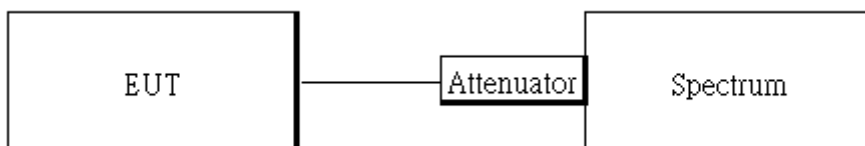
9.1 Standard Applicable

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. 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).

9.2 Measurement Equipment Used

| Conducted Emission Test Site | | | | | |
|------------------------------|-----------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | KEYSIGHT | N9010A | MY54510568 | 04/14/2016 | 04/13/2017 |
| DC Block | PASTERNAK | PE8210 | RF29 | 12/12/2015 | 12/11/2016 |
| Splitter | RF-LAMBDA | RFLT2W1G18G | RF35 | 12/12/2015 | 12/11/2016 |
| Attenuator | WOKEN | 218FS-10 | RF23 | 12/12/2015 | 12/11/2016 |

9.3 Test SET-UP



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9.4 Measurement Procedure

Conducted Band Edge:

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set center frequency of spectrum analyzer = operating frequency.
5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Sweep = auto
6. Mark Peak, 2.3999GHz and 2.4836GHz and record the max. level.
7. Repeat above procedures until all frequency measured were complete.

Conducted Spurious Emission:

1. To connect Antenna Port of EUT to Spectrum.
2. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
3. Set RBW = 100 kHz & VBW = 300 kHz, Detector =Peak, Sweep = Auto
4. Allow trace to fully stabilize.
5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
6. Repeat above procedures until all default test channel measured were complete.

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

| | | |
|-------|------------------------|--|
| Where | FS = Field Strength | CL = Cable Attenuation Factor (Cable Loss) |
| | RA = Reading Amplitude | AG = Amplifier Gain |
| | AF = Antenna Factor | |

9.5 Measurement Result

Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

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Band Edges Test Data CH-Low (Hopping mode)



Band Edges Test Data CH-High



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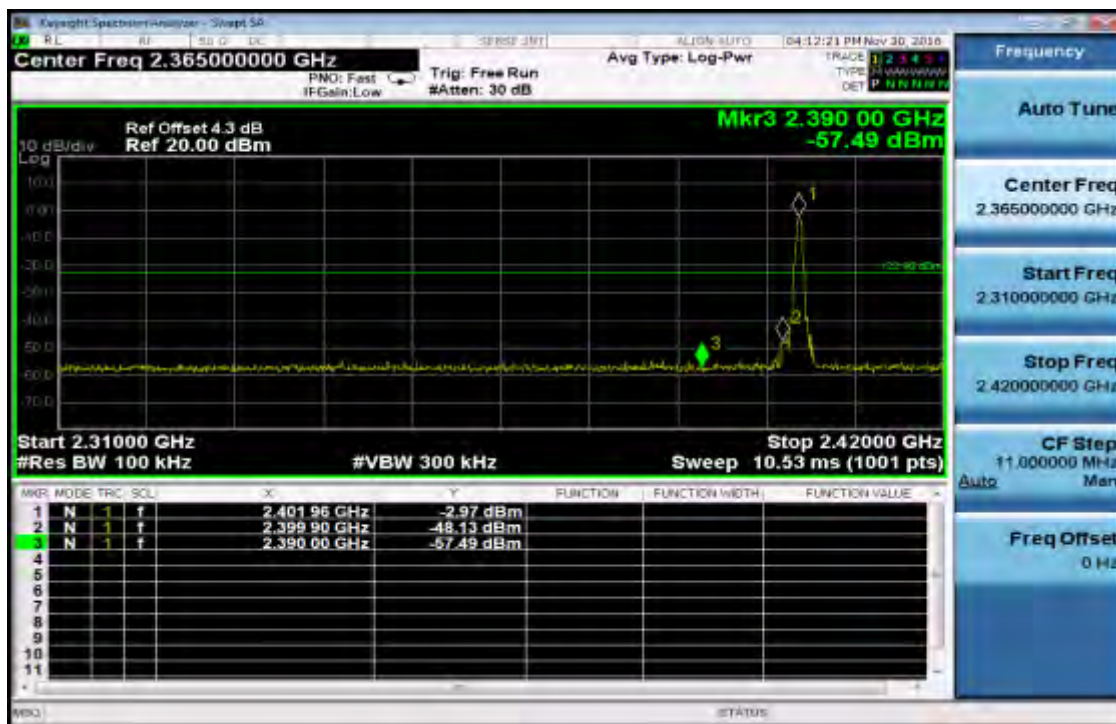
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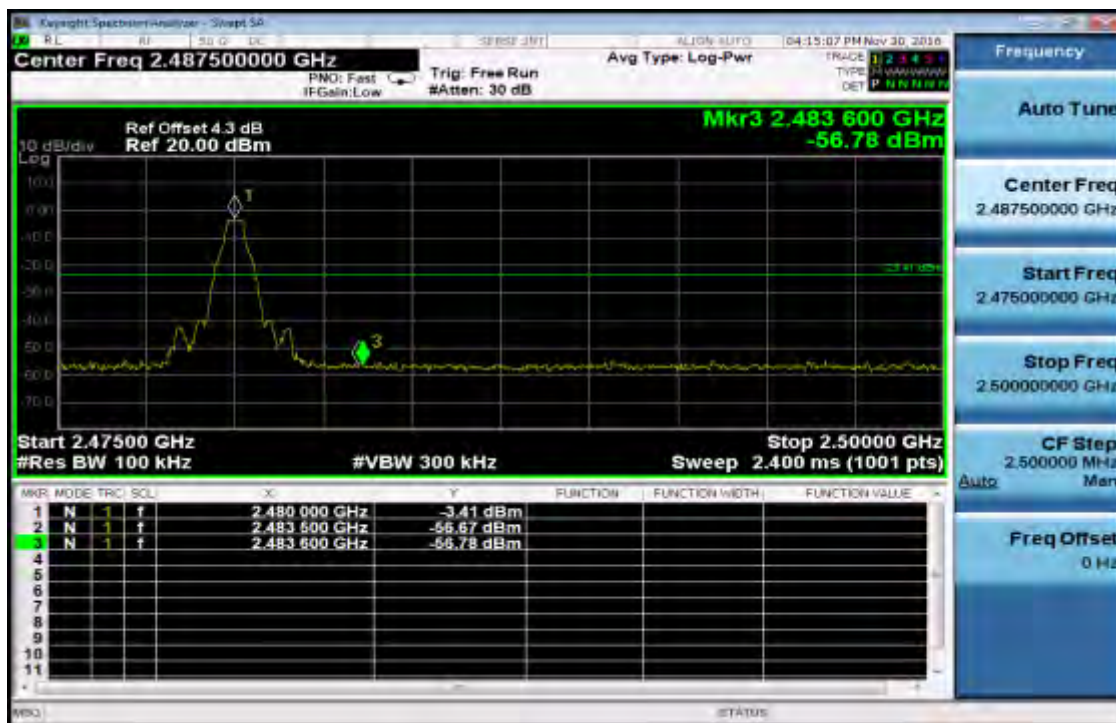
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Band Edges Test Data CH-Low (Non-Hopping mode)



Band Edges Test Data CH-High



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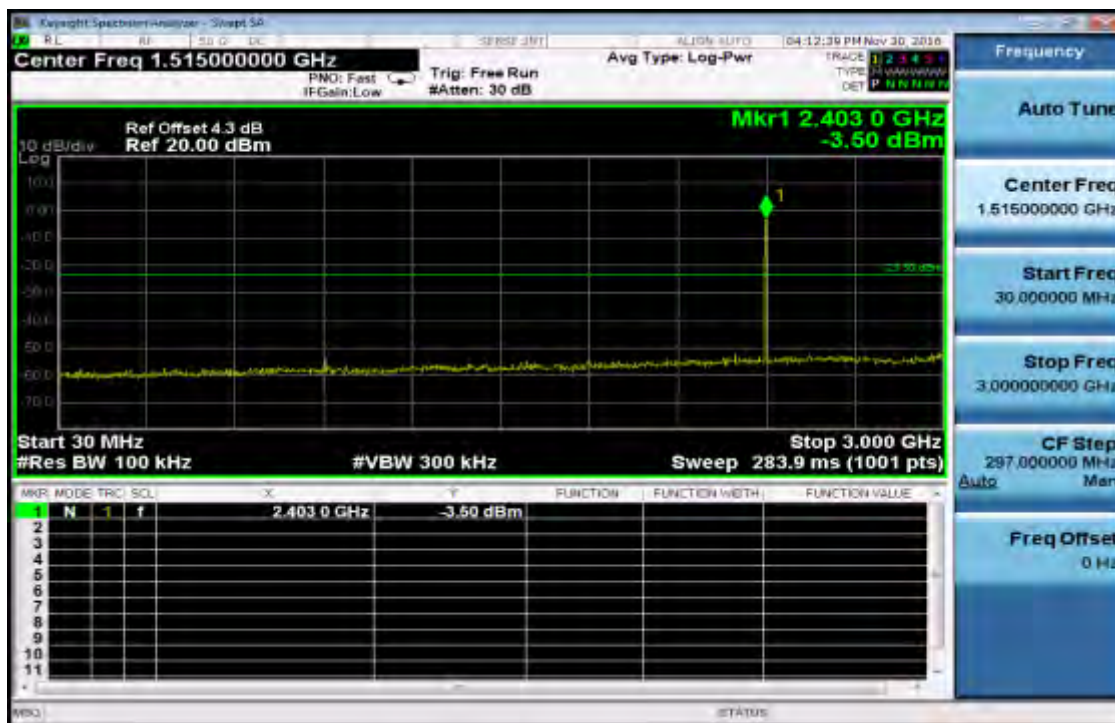
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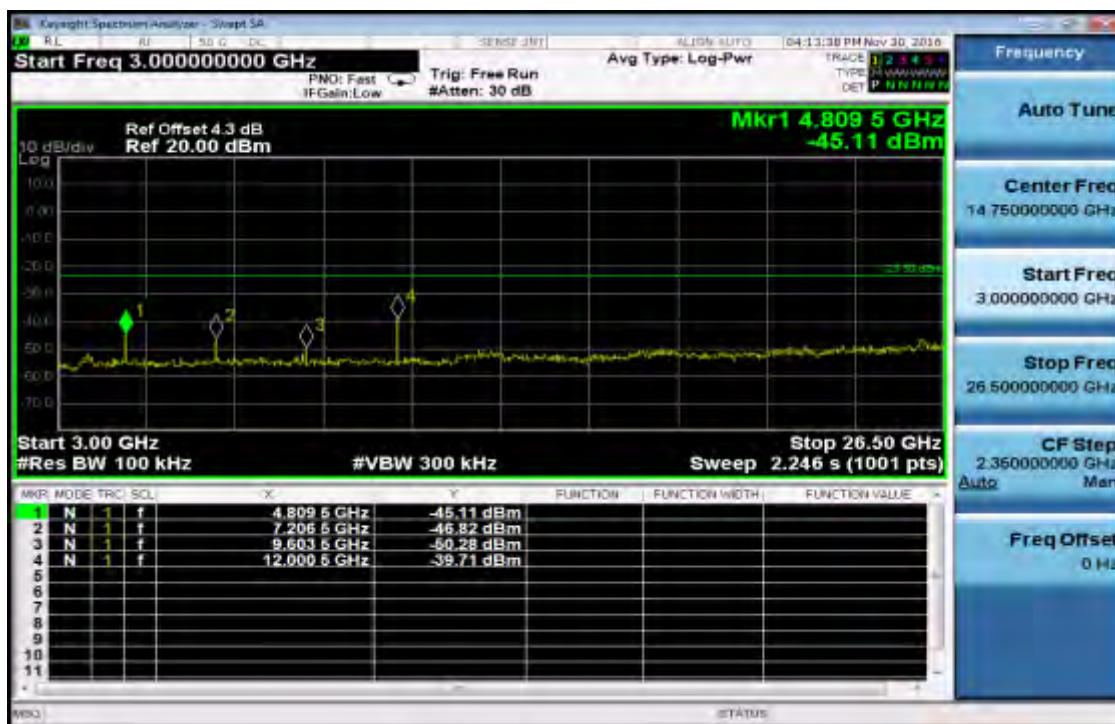
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Conducted Spurious Emission Measurement Result

Ch Low 30MHz – 3GHz



Ch Low 3GHz – 26.5GHz



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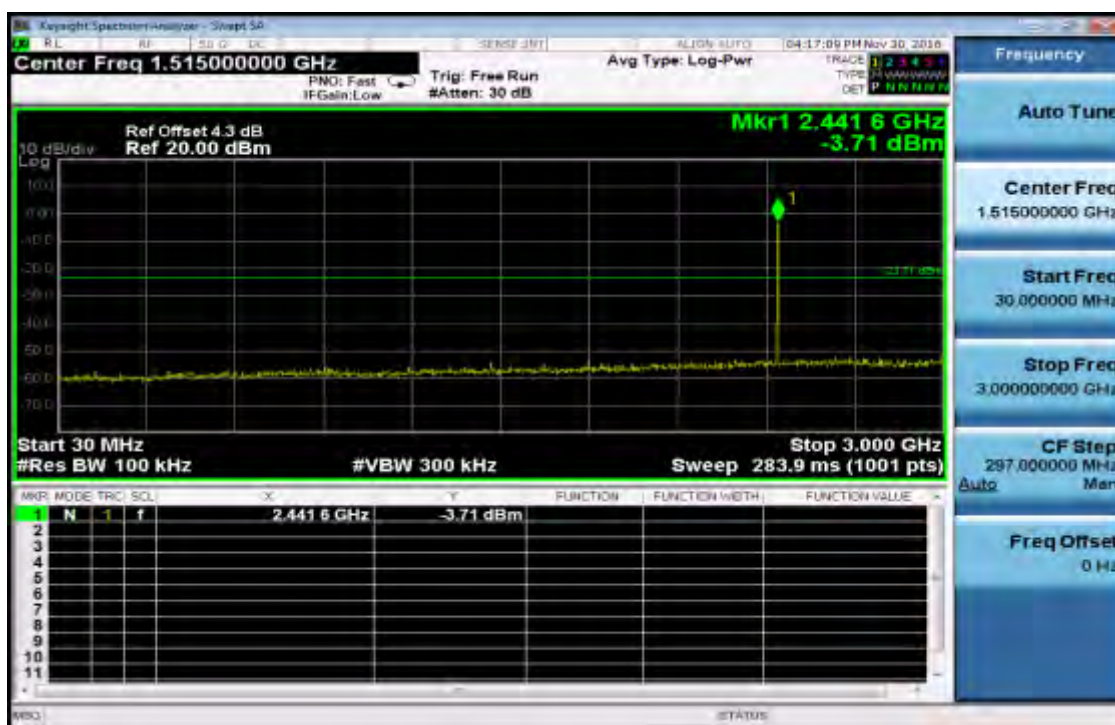
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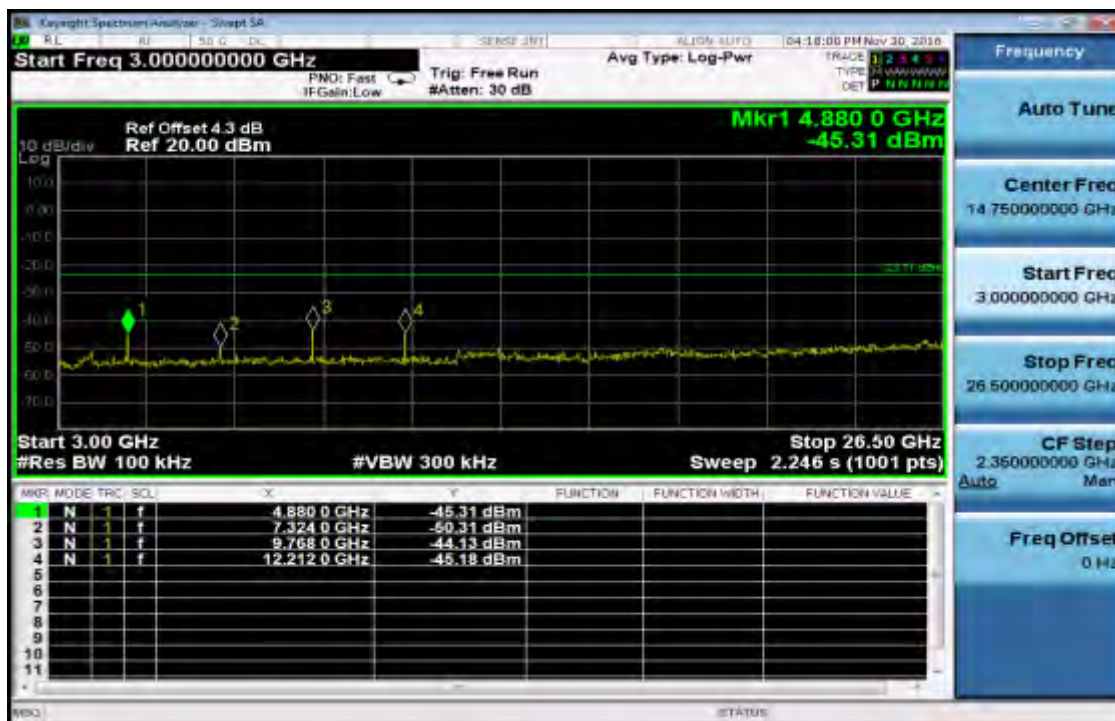
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Ch Mid 30MHz – 3GHz



Ch Mid 3GHz – 26.5GHz



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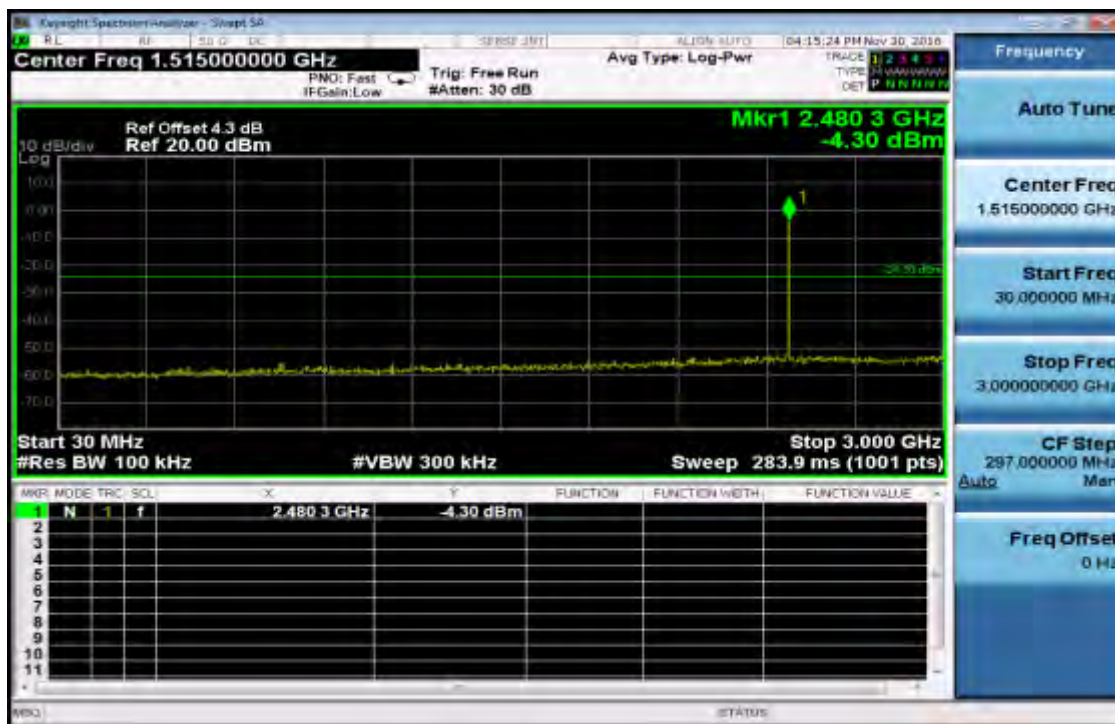
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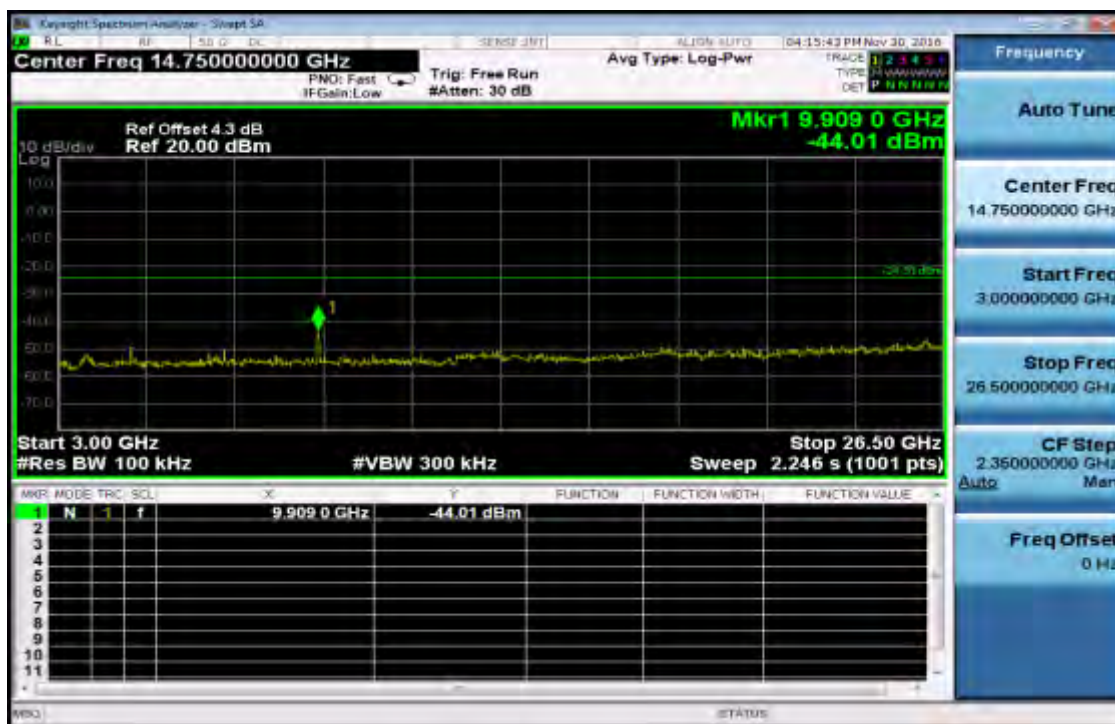
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Ch High 30MHz – 3GHz



Ch High 3GHz – 26.5GHz



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10 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

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. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 limit as below.

And according to §15.33(a) (1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

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

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBμV/m) = 20 log Emission level (dBμV/m)

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10.2 Measurement Equipment Used

| 966 Chamber | | | | | |
|-------------------|-----------------|--------------------------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| EMI Test Receiver | R&S | ESU 40 | 100363 | 04/12/2016 | 04/11/2017 |
| Loop Antenna | ETS-Lindgren | 6502 | 00143303 | 12/23/2015 | 12/22/2016 |
| Broadband Antenna | TESEQ | CBL 6112D | 35240 | 11/03/2016 | 11/02/2017 |
| Horn Antenna | ETS-Lindgren | 3117 | 00143272 | 12/16/2015 | 12/15/2016 |
| Horn Antenna | Schwarzbeck | BBHA9170 | 185 | 07/18/2016 | 07/17/2017 |
| Pre Amplifier | EMC Instruments | EMC330 | 980096 | 12/12/2015 | 12/11/2016 |
| Pre Amplifier | EMC Instruments | EMC0011830 | 980199 | 12/12/2015 | 12/11/2016 |
| Pre Amplifier | R&S | SCU-18 | 10204 | 12/12/2015 | 12/11/2016 |
| Pre Amplifier | R&S | SCU-26 | 100780 | 12/12/2015 | 12/11/2016 |
| Coaxial Cable | Huber+Suhner | RG 214/U | 966Rx 9K-30M | 12/12/2015 | 12/11/2016 |
| Coaxial Cable | Huber+Suhner | RG 214/U SUCOFLEX 104 | 966Rx 30M-3G | 12/12/2015 | 12/11/2016 |
| Coaxial Cable | Huber+Suhner | SUCOFLEX 104 | 966Rx 1G-18G | 12/12/2015 | 12/11/2016 |
| Coaxial Cable | Huber+Suhner | mini 141-12 SUCOFLEX 104 | 966Rx 18G-40G | 12/12/2015 | 12/11/2016 |
| Coaxial Cable | Huber+Suhner | SUCOFLEX 104 | 966Tx 30M-18G | 12/12/2015 | 12/11/2016 |
| Coaxial Cable | Huber+Suhner | SUCOFLEX 102 | 966Tx 18G-40G | 12/12/2015 | 12/11/2016 |
| Attenuator | WOKEN | 218FS-10 | RF27 | 12/12/2015 | 12/11/2016 |
| Site NSA | SGS | 966 Chamber C | SAC-C | 03/04/2016 | 03/03/2017 |
| Site VSWR | SGS | 966 Chamber C | SAC-C | 03/04/2016 | 03/03/2017 |
| DC Power Supply | HOLA | DP-3003 | D7070035 | 05/04/2016 | 05/03/2017 |
| Controller | MF | MF-7802 | N/A | N.C.R. | N.C.R. |
| Antenna Master | MF | N/A | N/A | N.C.R. | N.C.R. |
| Turn Table | MF | N/A | N/A | N.C.R. | N.C.R. |
| Test Software | World-Pallas | Dr. E | V 3.0 Lite | N.C.R. | N.C.R. |

NOTE: N.C.R refers to Not Calibrated Required.

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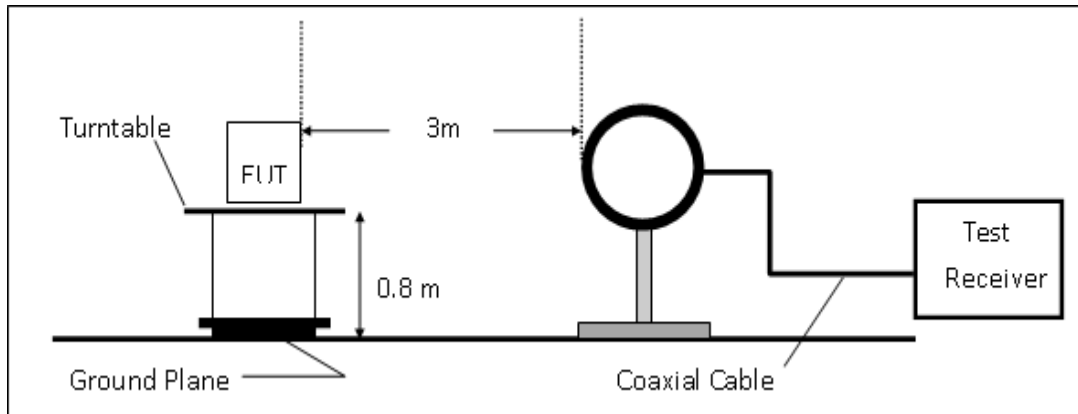
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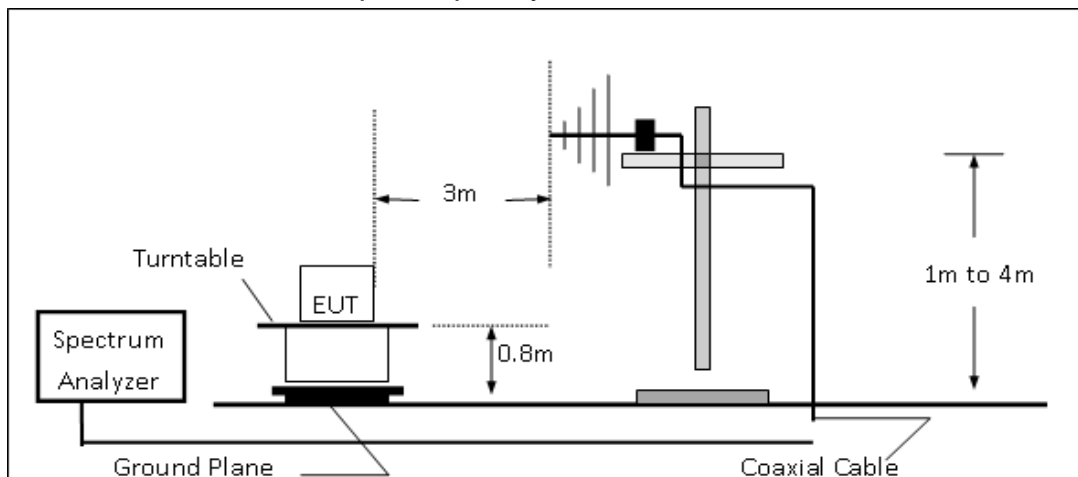
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10.3 Test SET-UP

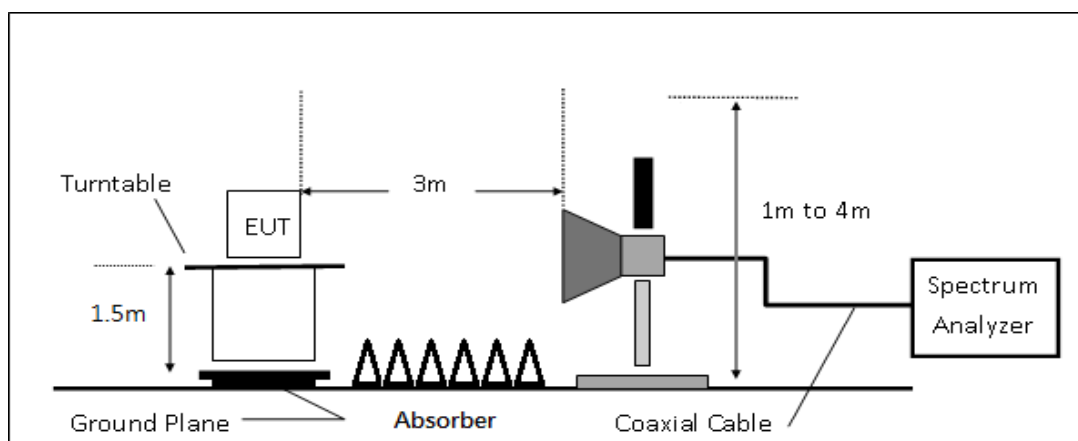
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-UP, Frequency form 30MHz to 1000MHz



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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10.4 Measurement Procedure

Radiated Emission

1. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
2. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 0.8m for frequency > 1GHz above ground plan.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. Use the follow spectrum analyzer setting:
 - (1) Span = wide enough to fully capture the emission being measured
 - (2) RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz, VBW \geq RBW, Sweep = auto, Detector function = peak, Trace = max hold
 - (3) For average measurement: use duty cycle correction factor method per 15.35(c)
 Duty Cycle = On time/100 milliseconds

$$\text{On time} = N1 \cdot L1 = N2 \cdot L2 + \dots + N(n-1) \cdot L(n-1) + N(n) \cdot L(n)$$
 Where N1 is number of type 1 pulses, L1 is length of type 1 pulses, etc.
 Average Emission Level = Peak Emission Level + $20 \cdot \log(\text{duty Cycle})$
6. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.
7. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
8. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
9. Repeat above procedures until all frequency of the interest measured were complete.

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10.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

| | |
|---------------------------|--|
| Where FS = Field Strength | CL = Cable Attenuation Factor (Cable Loss) |
| RA = Reading Amplitude | AG = Amplifier Gain |
| AF = Antenna Factor | |

The limit of the emission level is expressed in dBuV/m, which converts $20 \cdot \log(\mu\text{V/m})$

Actual FS(dBuV/m) = SPA. Reading level(dBuV) + Factor(dB)

Factor(dB) = Antenna Factor(dBuV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note :

“F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

10.6 Test Results of Radiated Spurious Emissions form 9 KHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

10.7 Measurement Result

Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

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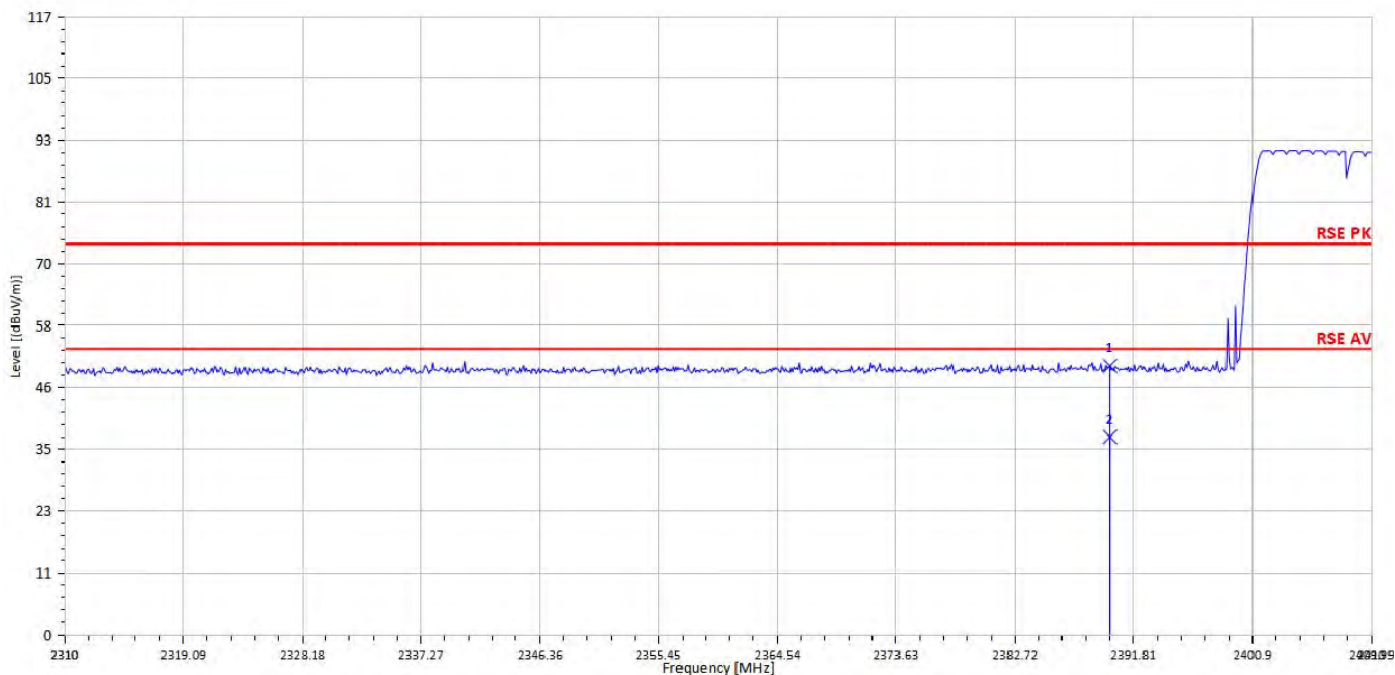
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Radiated Band Edge Measurement Result: (Hopping Mode)

| | | | |
|-------------------------|---------------|----------------------------|----------------|
| Operation Mode : | BT BR Hopping | Test Date : | 2016/11/29 |
| Fundamental Frequency : | 2402 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH LOW | Test Engineer : | Pony |
| EUT Pol. : | E2 | Measurement Antenna Pol. : | Vertical |



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @ 3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|-------------------------|--------------|
| 2390.00 | E | Peak | 57.74 | -6.84 | 50.89 | 74 | -23.11 |
| 2390.00 | E | Average | 44.28 | -6.84 | 37.44 | 54 | -16.56 |

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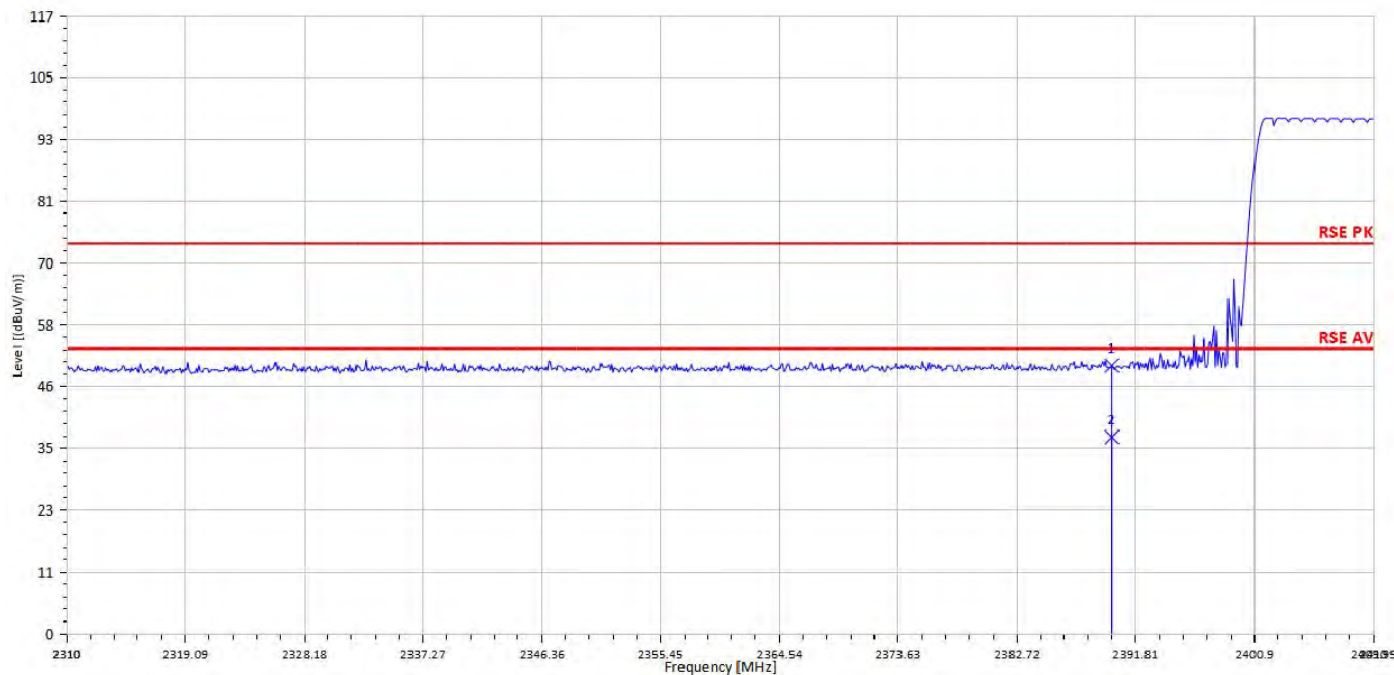
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| | | | |
|-------------------------|---------------|----------------------------|----------------|
| Operation Mode : | BT BR Hopping | Test Date : | 2016/11/29 |
| Fundamental Frequency : | 2402 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH LOW | Test Engineer : | Pony |
| EUT Pol. : | E2 | Measurement Antenna Pol. : | Horizontal |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | | FS | @ 3m | |
| | | PK/QP/AV | dBuV | dB | dBuV/m | dBuV/m | dB |
| 2390.00 | E | Peak | 57.59 | -6.84 | 50.75 | 74 | -23.25 |
| 2390.00 | E | Average | 44.07 | -6.84 | 37.23 | 54 | -16.77 |

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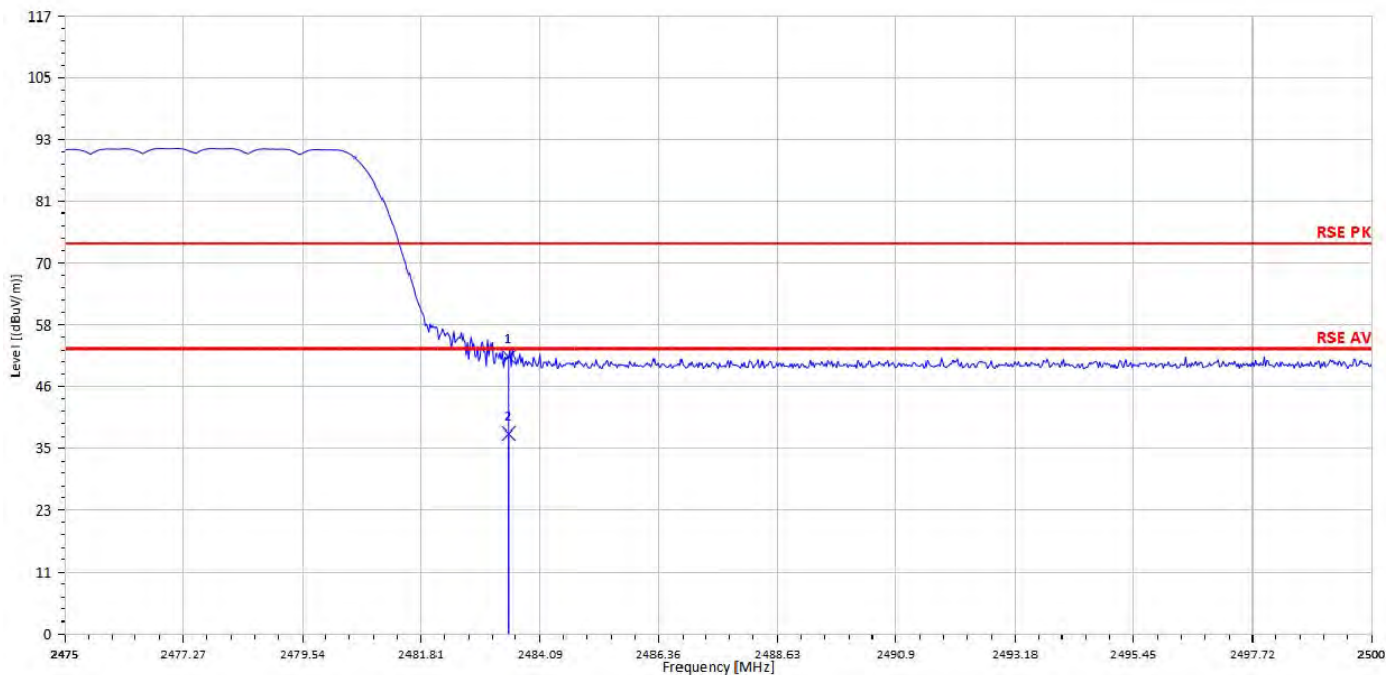
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| | | | |
|-------------------------|---------------|----------------------------|----------------|
| Operation Mode : | BT BR Hopping | Test Date : | 2016/11/29 |
| Fundamental Frequency : | 2480 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH HIGH | Test Engineer : | Pony |
| EUT Pol. : | E2 | Measurement Antenna Pol. : | Vertical |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | | FS | @ 3m | |
| | | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 2483.50 | E | Peak | 58.85 | -6.38 | 52.46 | 74 | -21.54 |
| 2483.50 | E | Average | 44.29 | -6.38 | 37.91 | 54 | -16.09 |

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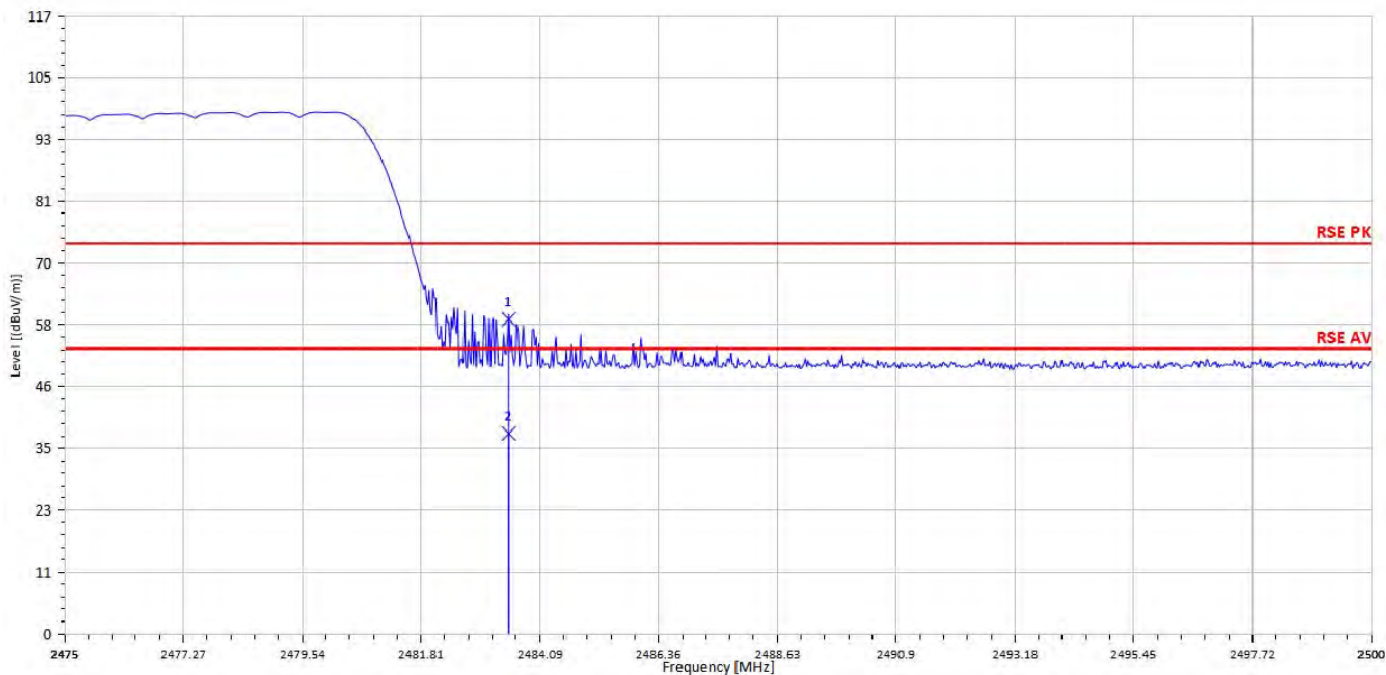
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| | | | |
|-------------------------|---------------|----------------------------|----------------|
| Operation Mode : | BT BR Hopping | Test Date : | 2016/11/29 |
| Fundamental Frequency : | 2480 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH HIGH | Test Engineer : | Pony |
| EUT Pol. : | E2 | Measurement Antenna Pol. : | Horizontal |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | | FS | @ 3m | |
| | | PK/QP/AV | dBuV | dB | dBuV/m | dBuV/m | dB |
| 2483.50 | E | Peak | 65.94 | -6.38 | 59.55 | 74 | -14.45 |
| 2483.50 | E | Average | 44.30 | -6.38 | 37.92 | 54 | -16.08 |

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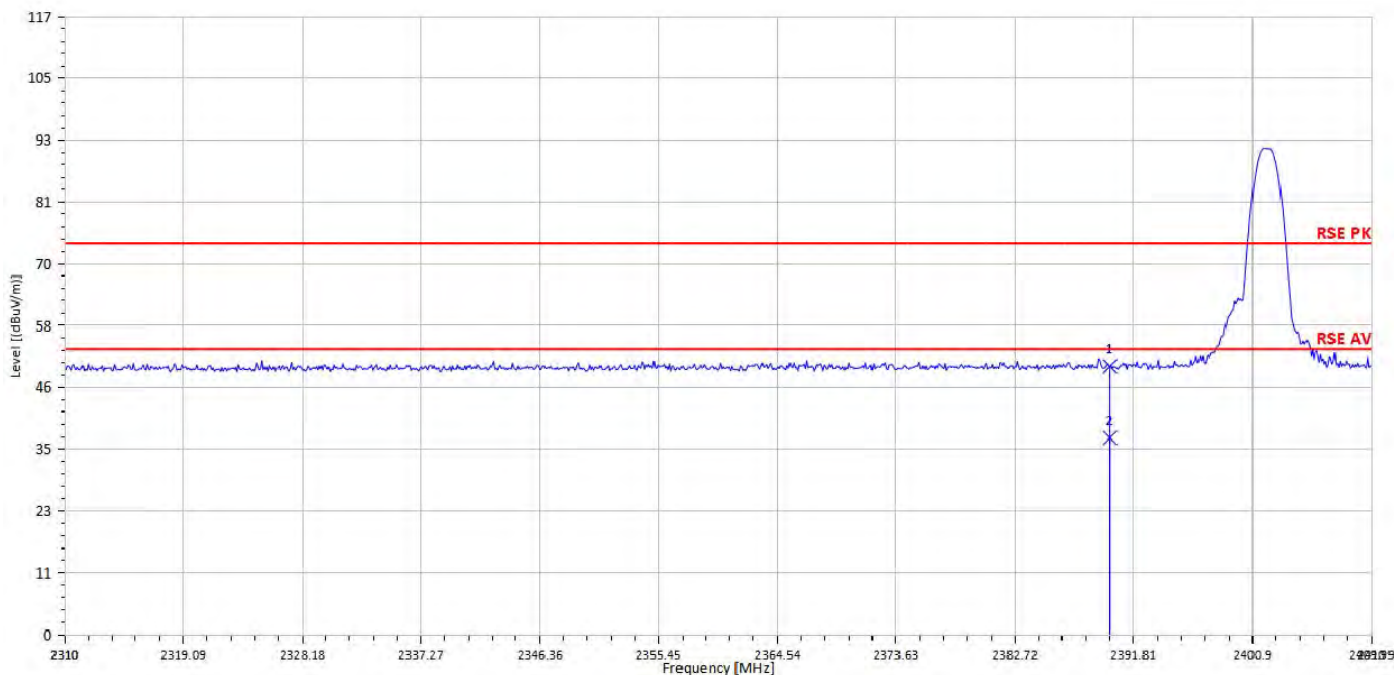
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Radiated Emission – Band Edge (Non-Hopping Mode):

| | | | |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | BT BR | Test Date : | 2016/11/29 |
| Fundamental Frequency : | 2402 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH LOW | Test Engineer : | Pony |
| EUT Pol. : | E2 | Measurement Antenna Pol. : | Vertical |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | dB | FS | @ 3m | dB |
| | | PK/QP/AV | dBμV | | dBμV/m | dBμV/m | |
| 2390.00 | E | Peak | 57.64 | -6.84 | 50.80 | 74 | -23.20 |
| 2390.00 | E | Average | 44.08 | -6.84 | 37.24 | 54 | -16.76 |

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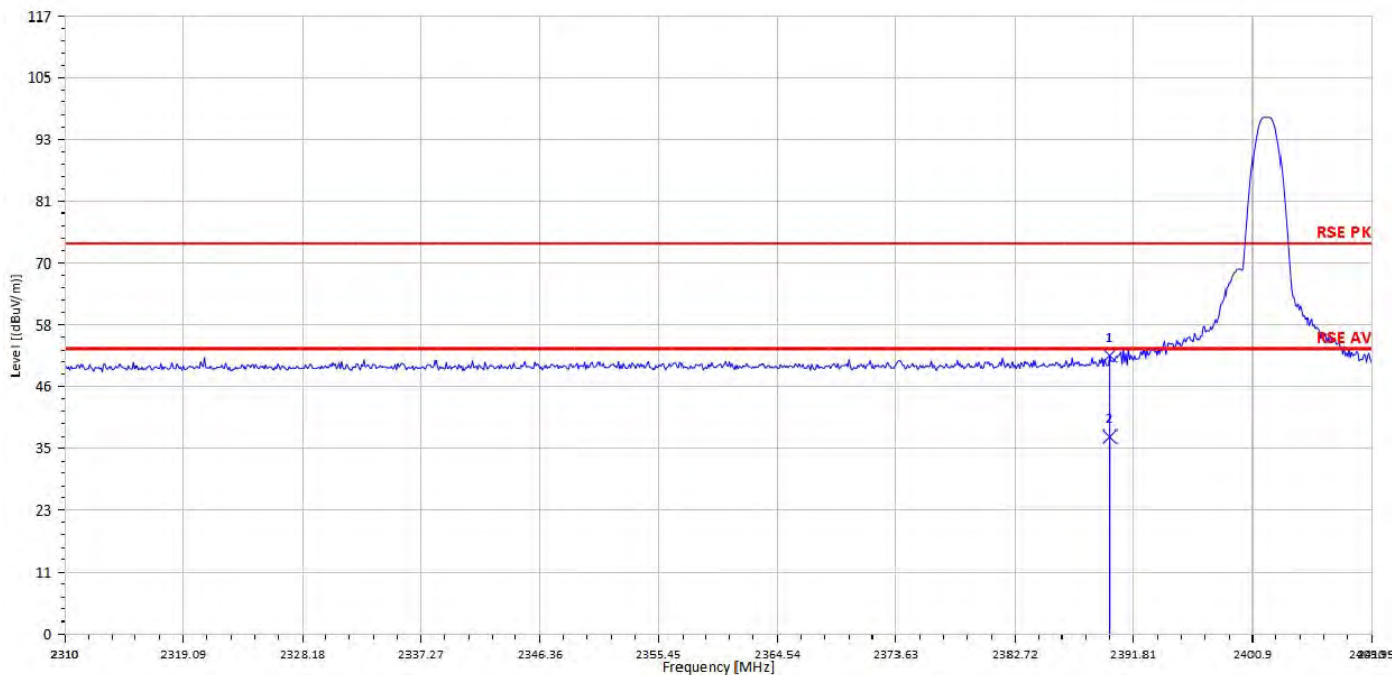
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| | | | |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | BT BR | Test Date : | 2016/11/29 |
| Fundamental Frequency : | 2402 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH LOW | Test Engineer : | Pony |
| EUT Pol. : | E2 | Measurement Antenna Pol. : | Horizontal |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | | FS | @ 3m | |
| | | PK/QP/AV | dBuV | dB | dBuV/m | dBuV/m | dB |
| 2390.00 | E | Peak | 59.60 | -6.84 | 52.76 | 74 | -21.24 |
| 2390.00 | E | Average | 44.18 | -6.84 | 37.34 | 54 | -16.66 |

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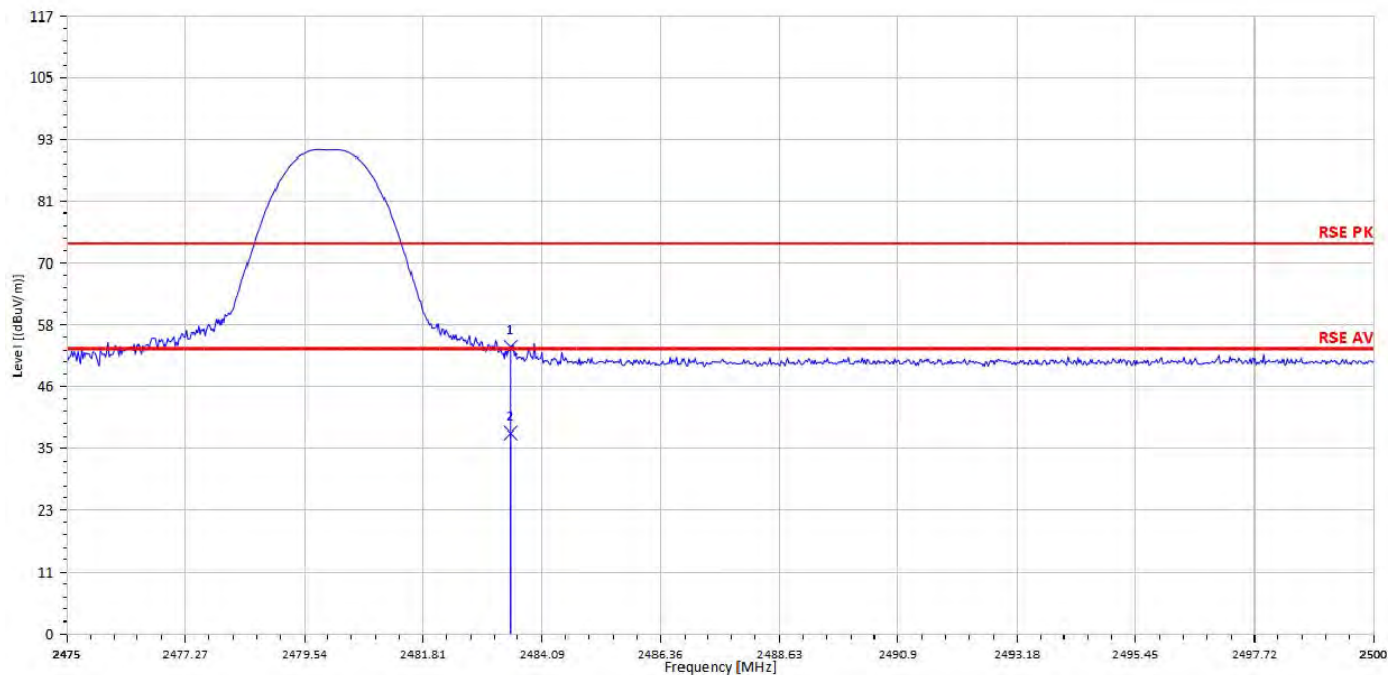
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| | | | |
|-------------------------|------------|----------------------------|----------------|
| Operation Mode : | BT BR | Test Date : | 2016/11/29 |
| Fundamental Frequency : | 2480 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH HIGH | Test Engineer : | Pony |
| EUT Pol. : | E2 | Measurement Antenna Pol. : | Vertical |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | | FS | @ 3m | |
| | | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 2483.50 | E | Peak | 60.61 | -6.38 | 54.23 | 74 | -19.77 |
| 2483.50 | E | Average | 44.38 | -6.38 | 38.00 | 54 | -16.00 |

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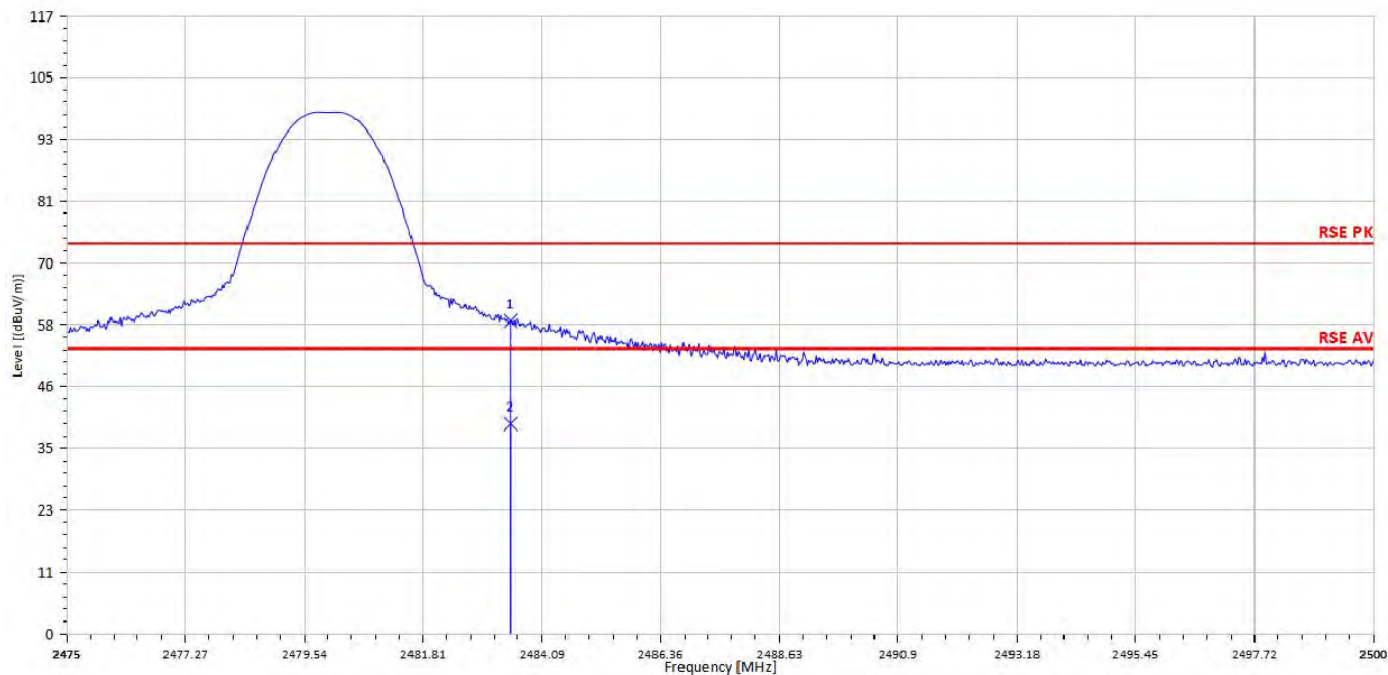
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| | | | |
|-------------------------|------------|----------------------------|----------------|
| Operation Mode : | BT BR | Test Date : | 2016/11/29 |
| Fundamental Frequency : | 2480 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH HIGH | Test Engineer : | Pony |
| EUT Pol. : | E2 | Measurement Antenna Pol. : | Horizontal |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | | FS | @ 3m | |
| | | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 2483.50 | E | Peak | 65.64 | -6.38 | 59.26 | 74 | -14.74 |
| 2483.50 | E | Average | 46.14 | -6.38 | 39.76 | 54 | -14.24 |

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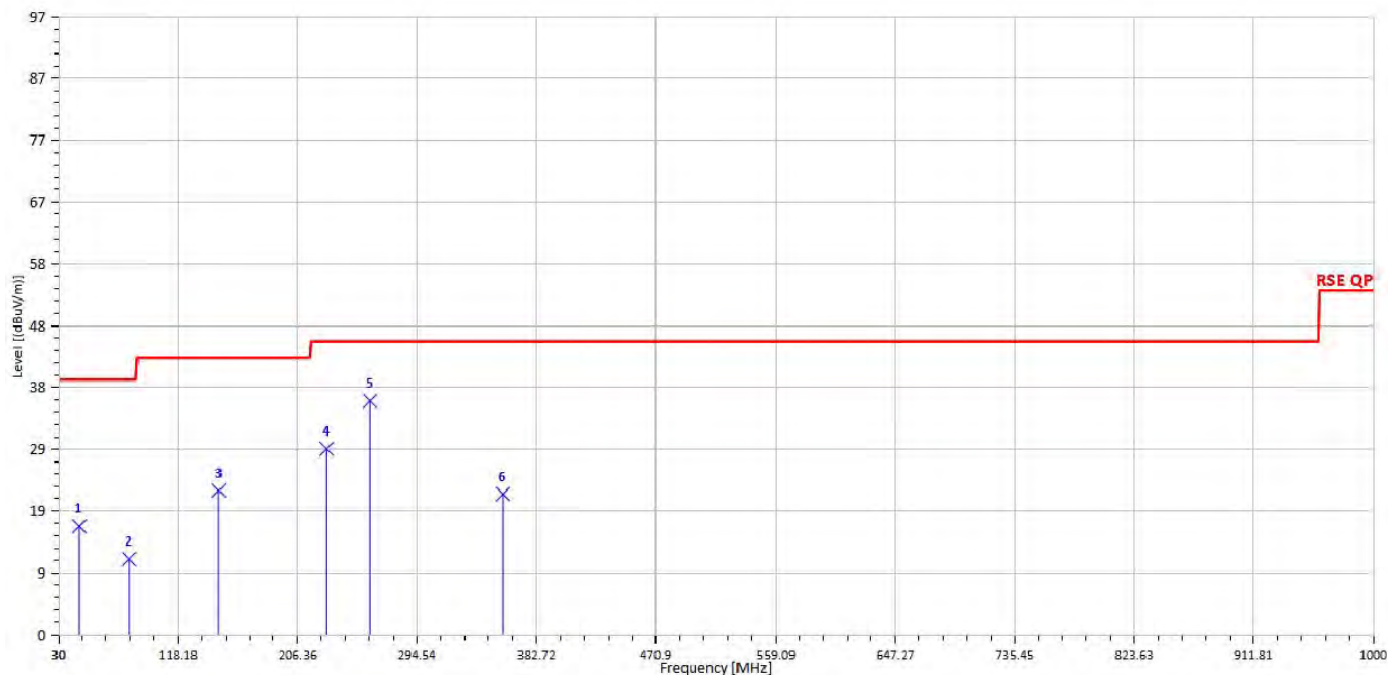
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Radiated Spurious Emission Measurement Result:

For Frequency form 30MHz to 1000MHz

| | | | |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | BT BR | Test Date : | 2016/11/29 |
| Fundamental Frequency : | 2402 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Pony |
| EUT Pol. : | E2 | Measurement Antenna Pol. : | Vertical |



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 45.52 | S | Peak | 40.20 | -23.16 | 17.04 | 40 | -22.96 |
| 82.38 | S | Peak | 39.67 | -27.81 | 11.85 | 40 | -28.15 |
| 148.34 | S | Peak | 44.96 | -22.34 | 22.61 | 43.5 | -20.89 |
| 227.88 | S | Peak | 53.28 | -24.12 | 29.16 | 46 | -16.84 |
| 259.89 | S | Peak | 59.93 | -23.26 | 36.67 | 46 | -9.33 |
| 357.86 | S | Peak | 42.13 | -20.07 | 22.06 | 46 | -23.94 |

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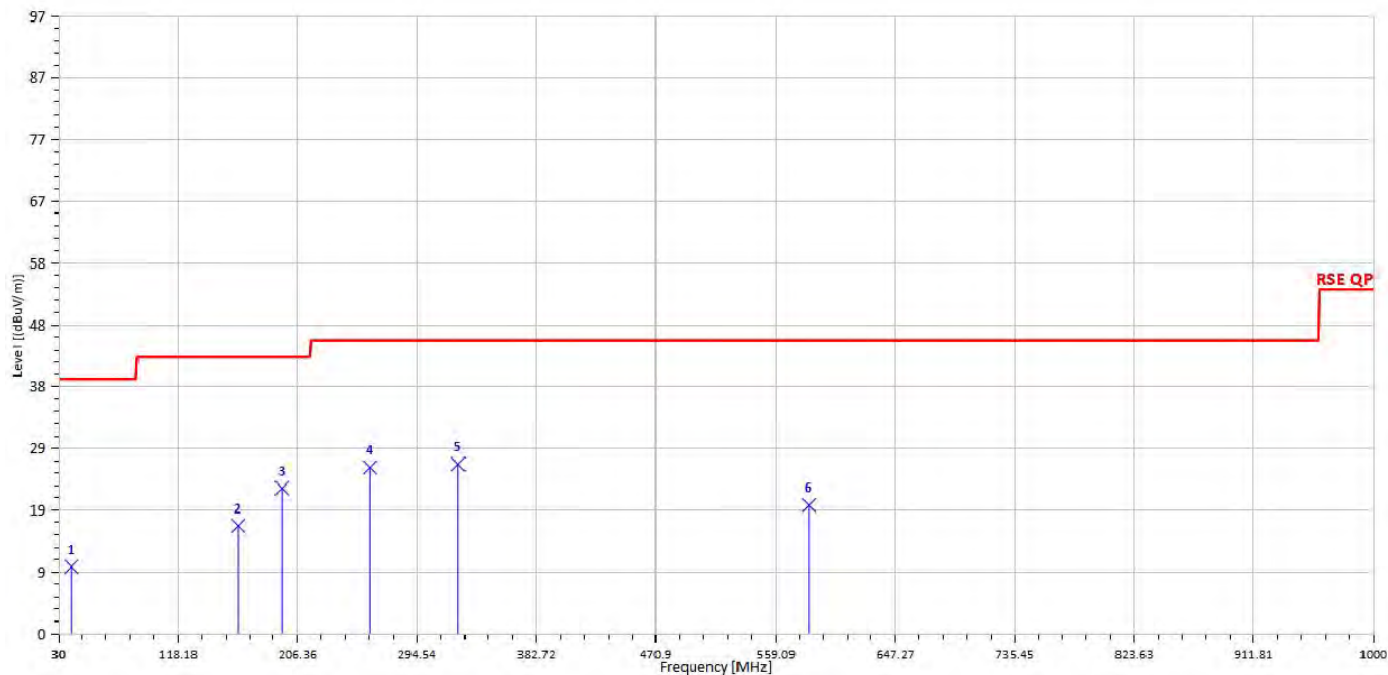
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| | | | |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | BT BR | Test Date : | 2016/11/29 |
| Fundamental Frequency : | 2402 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Pony |
| EUT Pol. : | E2 | Measurement Antenna Pol. : | Horizontal |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|--------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | | FS | @3m | |
| | | PK/QP/AV | dBuV | dB | dBuV/m | dBuV/m | dB |
| 39.70 | S | Peak | 33.71 | -23.18 | 10.53 | 40 | -29.47 |
| 162.89 | S | Peak | 39.42 | -22.49 | 16.93 | 43.5 | -26.57 |
| 194.90 | S | Peak | 48.07 | -25.21 | 22.86 | 43.5 | -20.64 |
| 259.89 | S | Peak | 49.38 | -23.26 | 26.12 | 46 | -19.88 |
| 324.88 | S | Peak | 47.23 | -20.61 | 26.62 | 46 | -19.38 |
| 583.87 | S | Peak | 34.69 | -14.52 | 20.16 | 46 | -25.84 |

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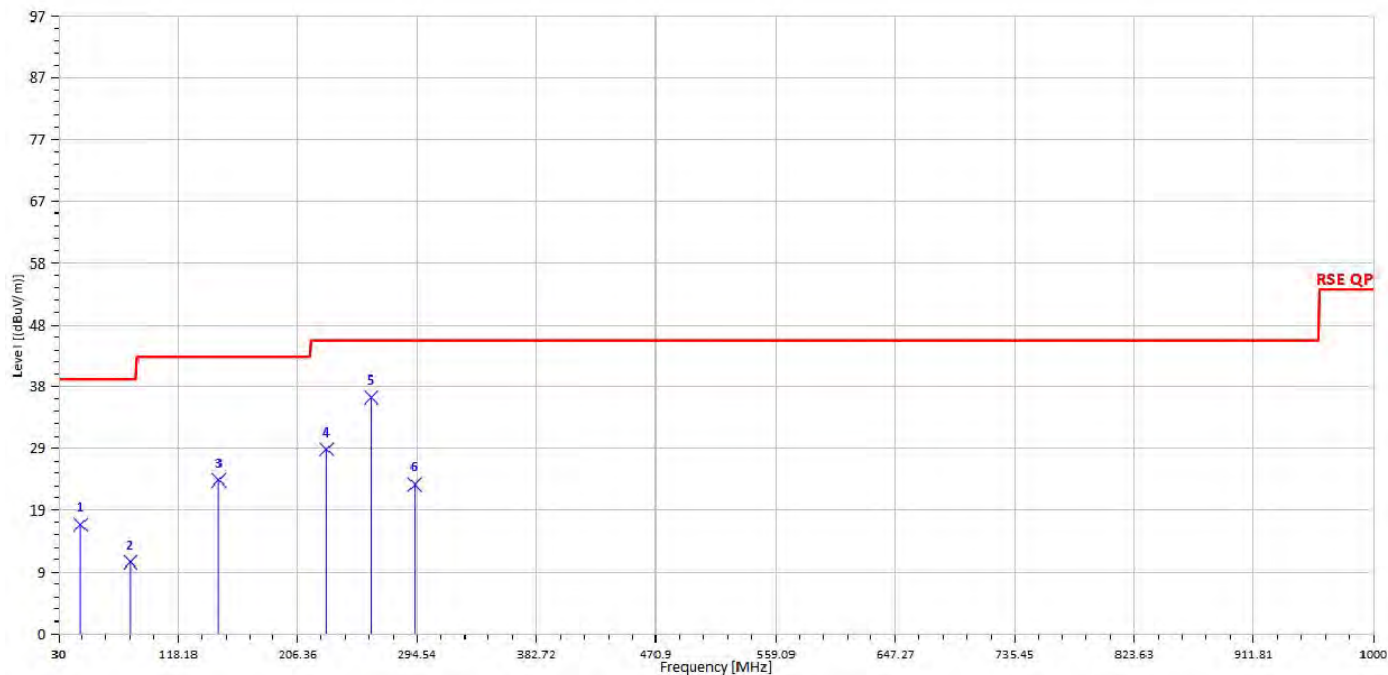
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Operation Mode : BT BR Test Date : 2016/11/29
 Fundamental Frequency : 2441 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH MID Test Engineer : Pony
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBuV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 46.49 | S | Peak | 40.43 | -23.28 | 17.15 | 40 | -22.85 |
| 83.35 | S | Peak | 39.05 | -27.80 | 11.25 | 40 | -28.75 |
| 148.34 | S | Peak | 46.46 | -22.34 | 24.11 | 43.5 | -19.39 |
| 227.88 | S | Peak | 53.05 | -24.12 | 28.93 | 46 | -17.07 |
| 260.86 | S | Peak | 60.27 | -23.20 | 37.07 | 46 | -8.93 |
| 292.87 | S | Peak | 45.04 | -21.61 | 23.43 | 46 | -22.57 |

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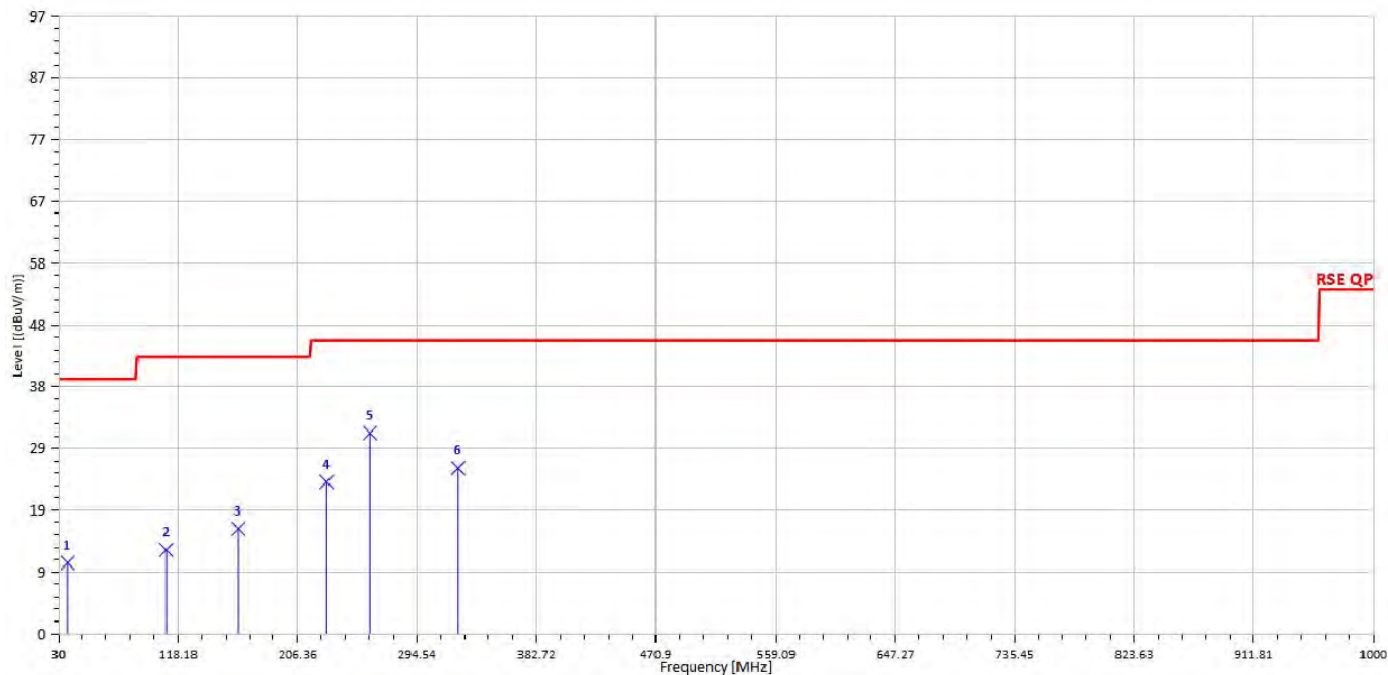
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Operation Mode : BT BR Test Date : 2016/11/29
 Fundamental Frequency : 2441 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH MID Test Engineer : Pony
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 36.79 | S | Peak | 34.78 | -23.65 | 11.13 | 40 | -28.87 |
| 109.54 | S | Peak | 38.86 | -25.68 | 13.18 | 43.5 | -30.32 |
| 162.89 | S | Peak | 38.94 | -22.49 | 16.45 | 43.5 | -27.05 |
| 227.88 | S | Peak | 47.96 | -24.12 | 23.84 | 46 | -22.16 |
| 259.89 | S | Peak | 54.77 | -23.26 | 31.51 | 46 | -14.49 |
| 324.88 | S | Peak | 46.62 | -20.61 | 26.01 | 46 | -19.99 |

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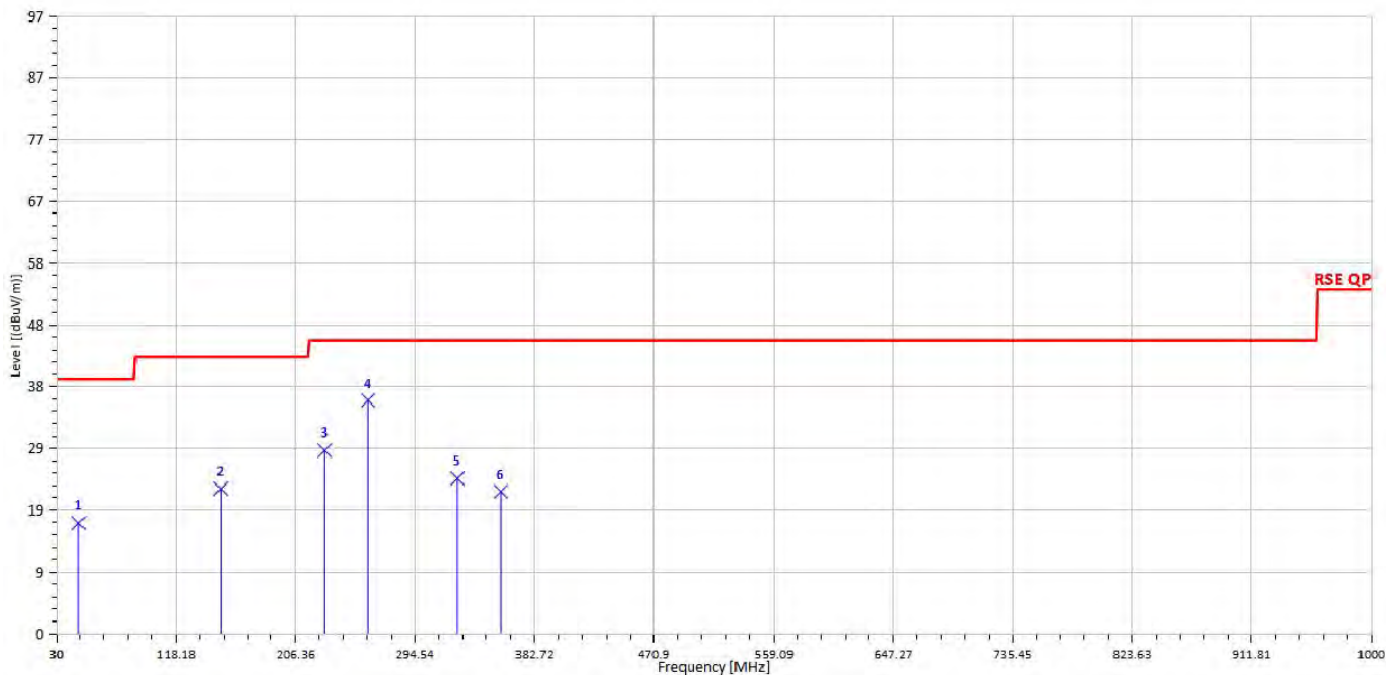
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|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | BT BR | Test Date : | 2016/11/29 |
| Fundamental Frequency : | 2480 MHz | Temp. / Humi. : | 22.7 deg_C/57 RH |
| Operation Band : | Tx CH HIGH | Test Engineer : | Pony |
| EUT Pol. : | E2 | Measurement Antenna Pol. : | Vertical |



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBuV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 46.49 | S | Peak | 40.66 | -23.28 | 17.38 | 40 | -22.62 |
| 151.25 | S | Peak | 44.96 | -22.20 | 22.77 | 43.5 | -20.73 |
| 227.88 | S | Peak | 52.88 | -24.12 | 28.76 | 46 | -17.24 |
| 259.89 | S | Peak | 59.91 | -23.26 | 36.65 | 46 | -9.35 |
| 325.85 | S | Peak | 44.97 | -20.59 | 24.38 | 46 | -21.62 |
| 357.86 | S | Peak | 42.39 | -20.07 | 22.31 | 46 | -23.69 |

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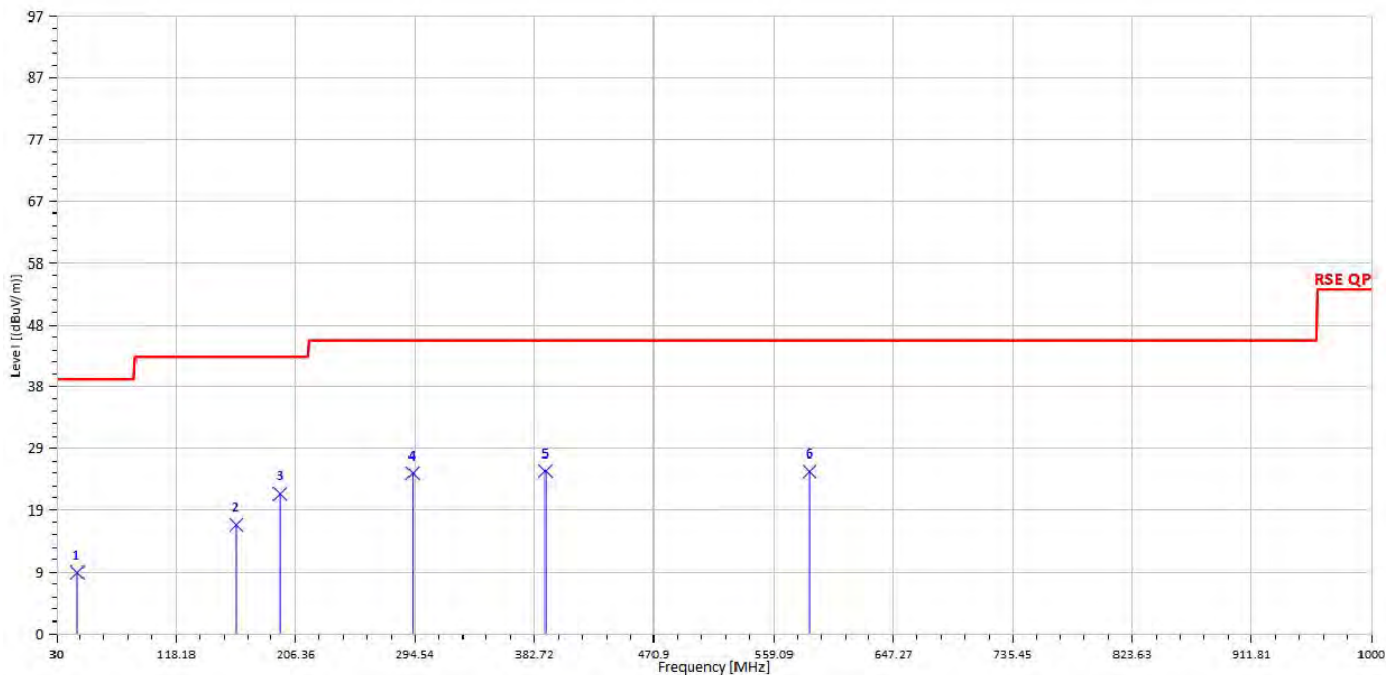
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| | | | |
|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | BT BR | Test Date : | 2016/11/29 |
| Fundamental Frequency : | 2480 MHz | Temp. / Humi. : | 22.7 deg_C/57 RH |
| Operation Band : | Tx CH HIGH | Test Engineer : | Pony |
| EUT Pol. : | E2 | Measurement Antenna Pol. : | Horizontal |



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBuV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 45.52 | S | Peak | 32.79 | -23.16 | 9.63 | 40 | -30.37 |
| 162.89 | S | Peak | 39.59 | -22.49 | 17.10 | 43.5 | -26.40 |
| 194.90 | S | Peak | 47.19 | -25.21 | 21.98 | 43.5 | -21.52 |
| 292.87 | S | Peak | 46.80 | -21.61 | 25.19 | 46 | -20.81 |
| 390.84 | S | Peak | 44.68 | -19.13 | 25.56 | 46 | -20.44 |
| 585.81 | S | Peak | 39.94 | -14.49 | 25.45 | 46 | -20.55 |

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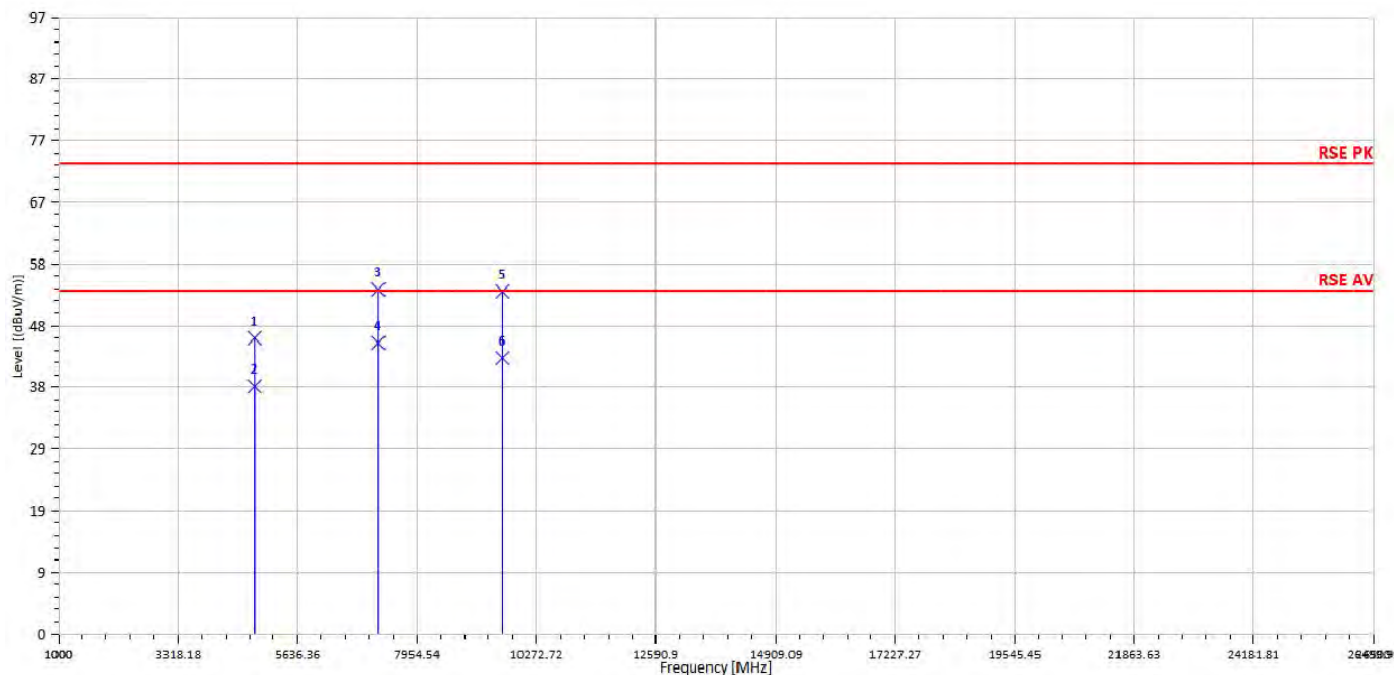
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Radiated Spurious Emission Measurement Result:

For Frequency above 1 GHz

| | | | |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | BT BR | Test Date : | 2016/11/29 |
| Fundamental Frequency : | 2402 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Pony |
| EUT Pol. : | E2 | Measurement Antenna Pol. : | Vertical |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | | FS | @ 3m | |
| | | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 4804.00 | H | Peak | 47.71 | -1.16 | 46.55 | 74 | -27.45 |
| 4804.00 | H | Average | 40.09 | -1.16 | 38.93 | 54 | -15.07 |
| 7206.00 | H | Peak | 48.76 | 5.41 | 54.17 | 74 | -19.83 |
| 7206.00 | H | Average | 40.38 | 5.41 | 45.79 | 54 | -8.21 |
| 9608.00 | H | Peak | 45.13 | 8.73 | 53.86 | 74 | -20.14 |
| 9608.00 | H | Average | 34.66 | 8.73 | 43.39 | 54 | -10.61 |

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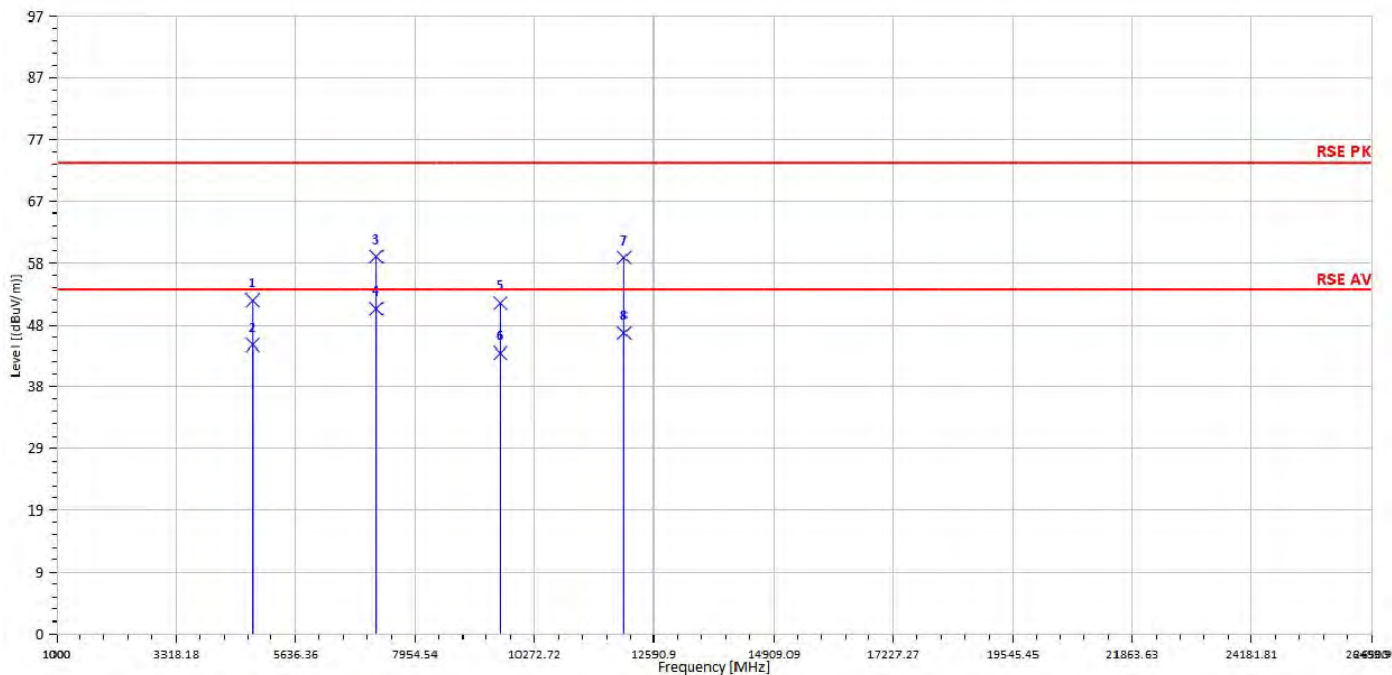
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| | | | |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | BT BR | Test Date : | 2016/11/29 |
| Fundamental Frequency : | 2402 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Pony |
| EUT Pol. : | E2 | Measurement Antenna Pol. : | Horizontal |



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4804.00 | H | Peak | 53.52 | -1.16 | 52.36 | 74 | -21.64 |
| 4804.00 | H | Average | 46.54 | -1.16 | 45.38 | 54 | -8.62 |
| 7206.00 | H | Peak | 53.80 | 5.41 | 59.21 | 74 | -14.79 |
| 7206.00 | H | Average | 45.60 | 5.41 | 51.01 | 54 | -2.99 |
| 9608.00 | H | Peak | 43.21 | 8.73 | 51.94 | 74 | -22.06 |
| 9608.00 | H | Average | 35.35 | 8.73 | 44.08 | 54 | -9.92 |
| 12010.00 | H | Peak | 48.52 | 10.52 | 59.04 | 74 | -14.96 |
| 12010.00 | H | Average | 36.72 | 10.52 | 47.24 | 54 | -6.76 |

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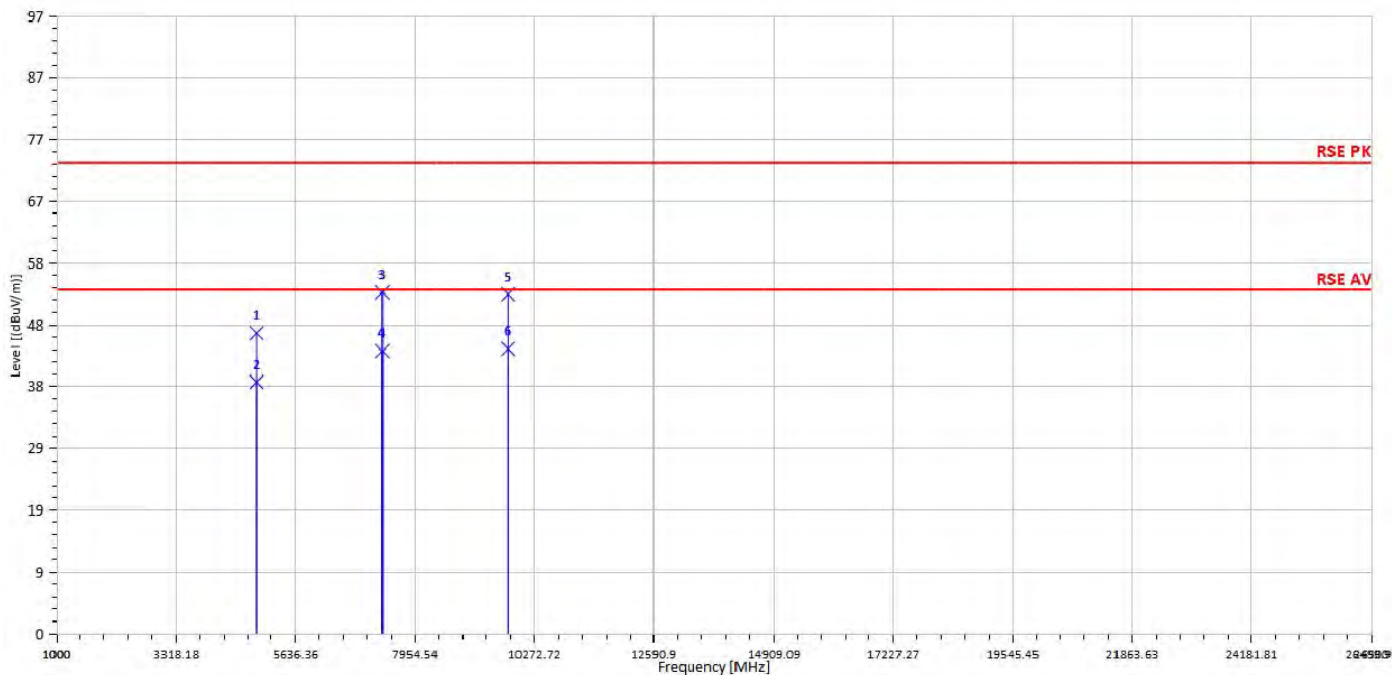
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Operation Mode : BT BR Test Date : 2016/11/29
 Fundamental Frequency : 2441 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH MID Test Engineer : Pony
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @ 3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|-------------------------|--------------|
| 4882.00 | H | Peak | 47.90 | -0.70 | 47.20 | 74 | -26.80 |
| 4882.00 | H | Average | 40.22 | -0.70 | 39.52 | 54 | -14.48 |
| 7323.00 | H | Peak | 47.49 | 6.11 | 53.60 | 74 | -20.40 |
| 7323.00 | H | Average | 38.27 | 6.11 | 44.38 | 54 | -9.62 |
| 9764.00 | H | Peak | 44.78 | 8.54 | 53.32 | 74 | -20.68 |
| 9764.00 | H | Average | 36.20 | 8.54 | 44.74 | 54 | -9.26 |

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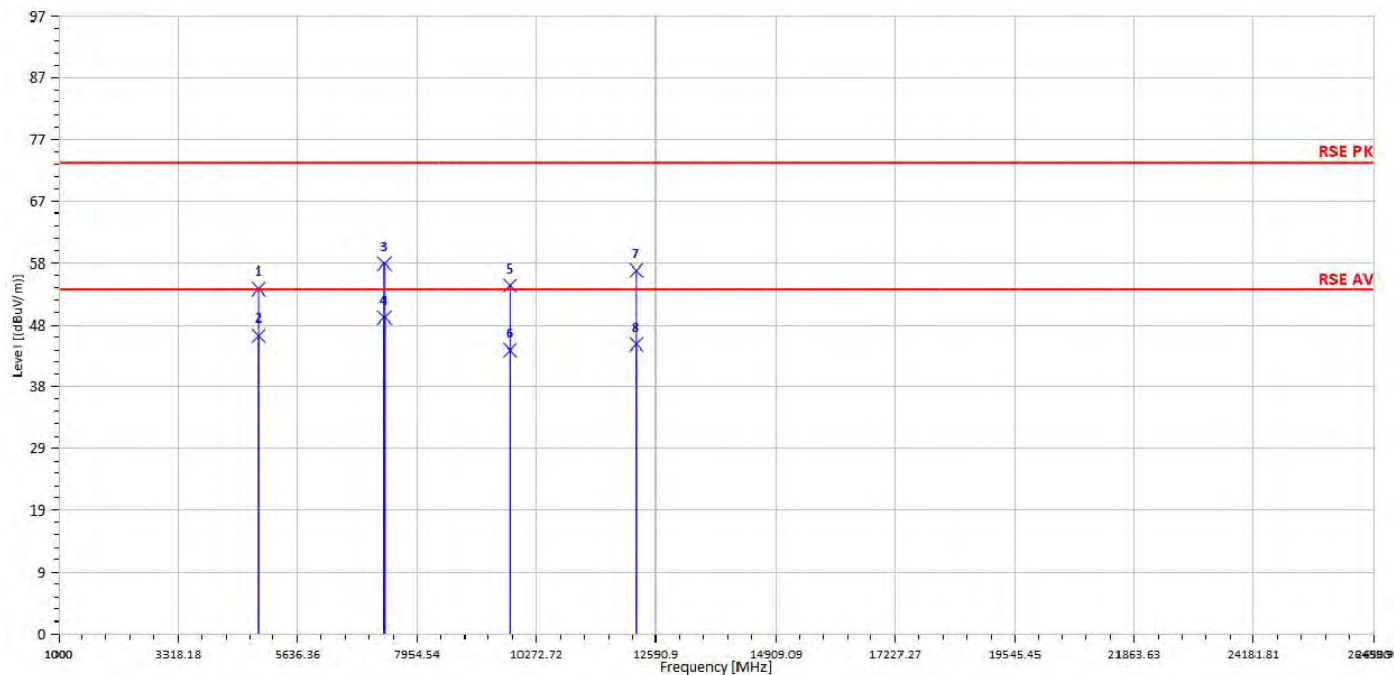
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Operation Mode : BT BR Test Date : 2016/11/29
 Fundamental Frequency : 2441 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH MID Test Engineer : Pony
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4882.00 | H | Peak | 54.81 | -0.70 | 54.11 | 74 | -19.89 |
| 4882.00 | H | Average | 47.46 | -0.70 | 46.76 | 54 | -7.24 |
| 7323.00 | H | Peak | 52.00 | 6.11 | 58.11 | 74 | -15.89 |
| 7323.00 | H | Average | 43.52 | 6.11 | 49.63 | 54 | -4.37 |
| 9764.00 | H | Peak | 46.11 | 8.54 | 54.65 | 74 | -19.35 |
| 9764.00 | H | Average | 35.97 | 8.54 | 44.51 | 54 | -9.49 |
| 12205.00 | H | Peak | 46.88 | 10.16 | 57.04 | 74 | -16.96 |
| 12205.00 | H | Average | 35.29 | 10.16 | 45.45 | 54 | -8.55 |

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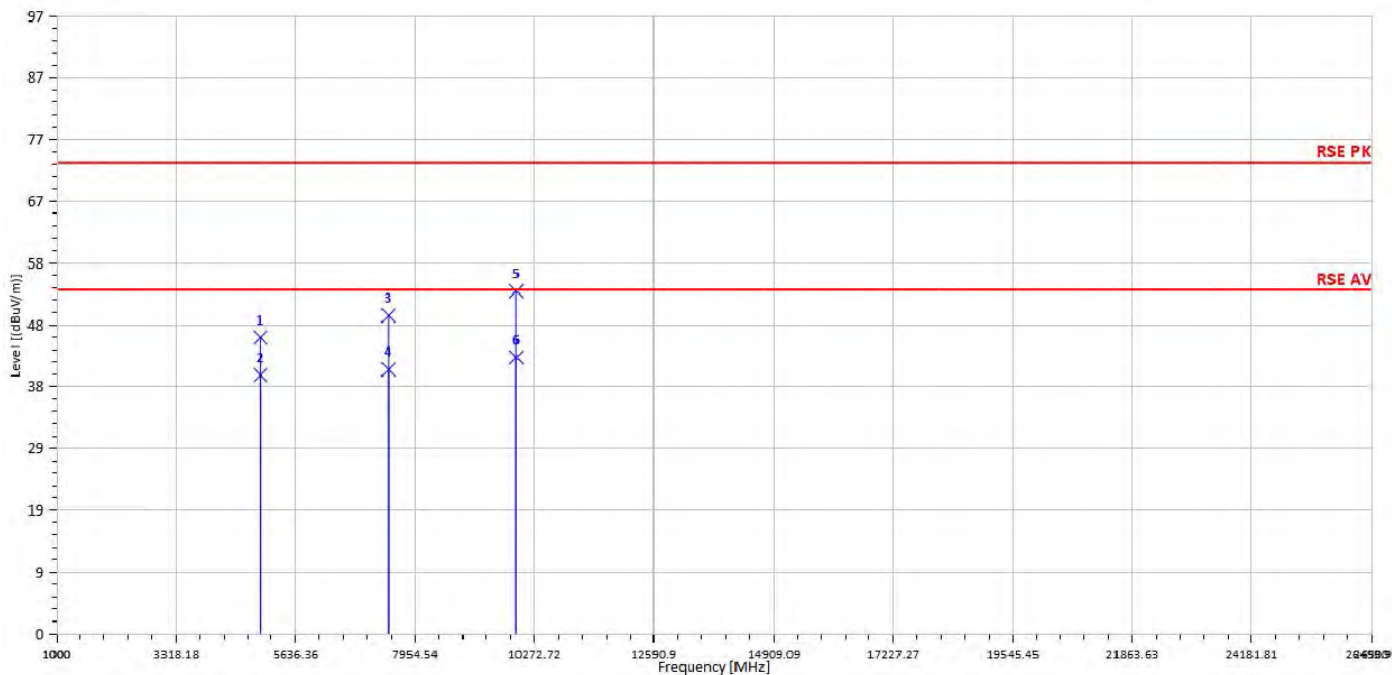
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| | | | |
|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | BT BR | Test Date : | 2016/11/29 |
| Fundamental Frequency : | 2480 MHz | Temp. / Humi. : | 22.7 deg_C/57 RH |
| Operation Band : | Tx CH HIGH | Test Engineer : | Pony |
| EUT Pol. : | E2 | Measurement Antenna Pol. : | Vertical |



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @ 3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|-------------------------|--------------|
| 4960.00 | H | Peak | 47.16 | -0.66 | 46.50 | 74 | -27.50 |
| 4960.00 | H | Average | 41.29 | -0.66 | 40.63 | 54 | -13.37 |
| 7440.00 | H | Peak | 43.75 | 6.19 | 49.94 | 74 | -24.06 |
| 7440.00 | H | Average | 35.30 | 6.19 | 41.49 | 54 | -12.51 |
| 9920.00 | H | Peak | 45.16 | 8.64 | 53.80 | 74 | -20.20 |
| 9920.00 | H | Average | 34.77 | 8.64 | 43.41 | 54 | -10.59 |

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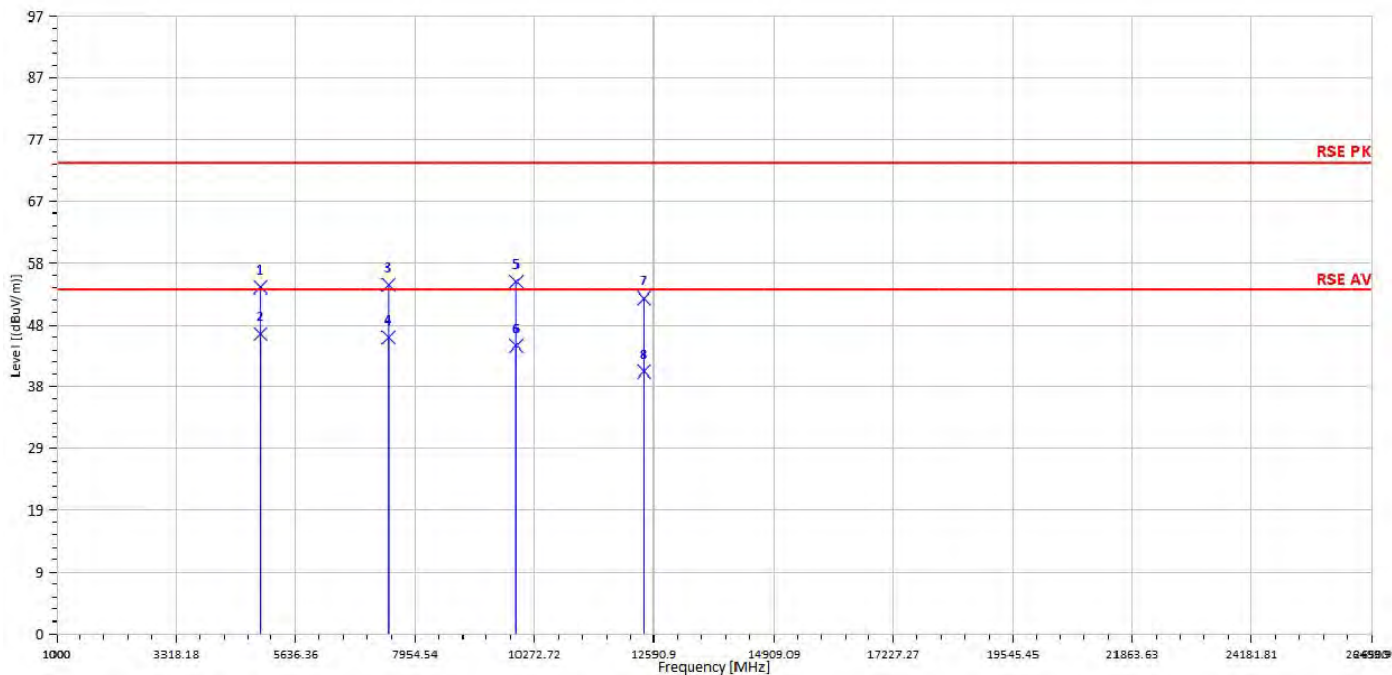
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| | | | |
|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | BT BR | Test Date : | 2016/11/29 |
| Fundamental Frequency : | 2480 MHz | Temp. / Humi. : | 22.7 deg_C/57 RH |
| Operation Band : | Tx CH HIGH | Test Engineer : | Pony |
| EUT Pol. : | E2 | Measurement Antenna Pol. : | Horizontal |



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4960.00 | H | Peak | 55.05 | -0.66 | 54.39 | 74 | -19.61 |
| 4960.00 | H | Average | 47.74 | -0.66 | 47.08 | 54 | -6.92 |
| 7440.00 | H | Peak | 48.58 | 6.19 | 54.77 | 74 | -19.23 |
| 7440.00 | H | Average | 40.33 | 6.19 | 46.52 | 54 | -7.48 |
| 9920.00 | H | Peak | 46.63 | 8.64 | 55.27 | 74 | -18.73 |
| 9920.00 | H | Average | 36.57 | 8.64 | 45.21 | 54 | -8.79 |
| 12400.00 | H | Peak | 42.90 | 9.78 | 52.68 | 74 | -21.32 |
| 12400.00 | H | Average | 31.39 | 9.78 | 41.17 | 54 | -12.83 |

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11 FREQUENCY SEPARATION

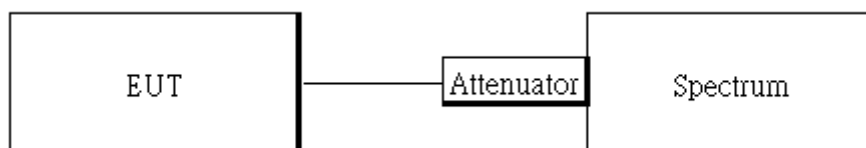
11.1 Standard Applicable

Frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25 kHz or the $2/3 \times 20\text{dB}$ bandwidth of the hopping channel, whichever is greater.

11.2 Measurement Equipment Used

| Conducted Emission Test Site | | | | | |
|------------------------------|-----------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | KEYSIGHT | N9010A | MY54510568 | 04/14/2016 | 04/13/2017 |
| DC Block | PASTERNAK | PE8210 | RF29 | 12/12/2015 | 12/11/2016 |
| Splitter | RF-LAMBDA | RFLT2W1G18G | RF35 | 12/12/2015 | 12/11/2016 |
| Attenuator | WOKEN | 218FS-10 | RF23 | 12/12/2015 | 12/11/2016 |

11.3 Test Set-up



11.4 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set center frequency of spectrum analyzer = middle of hopping channel.
5. Set the spectrum analyzer as RBW, VBW=100 kHz, Adjust Span to 5MHz, Sweep = auto.
6. Max hold. Mark 3 Peaks of hopping channel and record the 3 peaks frequency.

11.5 Measurement Result

| Channel separation (MHz) | Limit | Result |
|--------------------------|---|--------|
| 1 | $\geq 25\text{ kHz}$ or $2/3\text{ times } 20\text{dB bandwidth}$ | PASS |

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Frequency Separation Test Data



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12 NUMBER OF HOPPING FREQUENCY

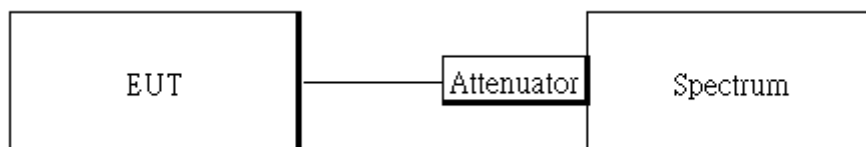
12.1 Standard Applicable

Frequency hopping systems operating in the 2400MHz-2483.5 MHz bands shall use at least 15 hopping frequencies.

12.2 Measurement Equipment Used

| Conducted Emission Test Site | | | | | |
|------------------------------|-----------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | KEYSIGHT | N9010A | MY54510568 | 04/14/2016 | 04/13/2017 |
| DC Block | PASTERNAK | PE8210 | RF29 | 12/12/2015 | 12/11/2016 |
| Splitter | RF-LAMBDA | RFLT2W1G18G | RF35 | 12/12/2015 | 12/11/2016 |
| Attenuator | WOKEN | 218FS-10 | RF23 | 12/12/2015 | 12/11/2016 |

12.3 Test Set-up



12.4 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set spectrum analyzer Start=2400MHz, Stop = 2483.5MHz, Sweep = auto.
5. Set the spectrum analyzer as RBW=430 kHz, VBW=1.5MHz., Detector = Peak
6. Max hold, view and count how many channel in the band.

12.5 Measurement Result

Tabular Data of Total Channel Number

| | Channel Number | Limit |
|-----------------------|----------------|-------|
| 2.4 GHz – 2.441GHz | 40 | >15 |
| 2.441 GHz – 2.4835GHz | 39 | |
| 2.4GHz ~2.4835GHz | (40+39) = 79 | |

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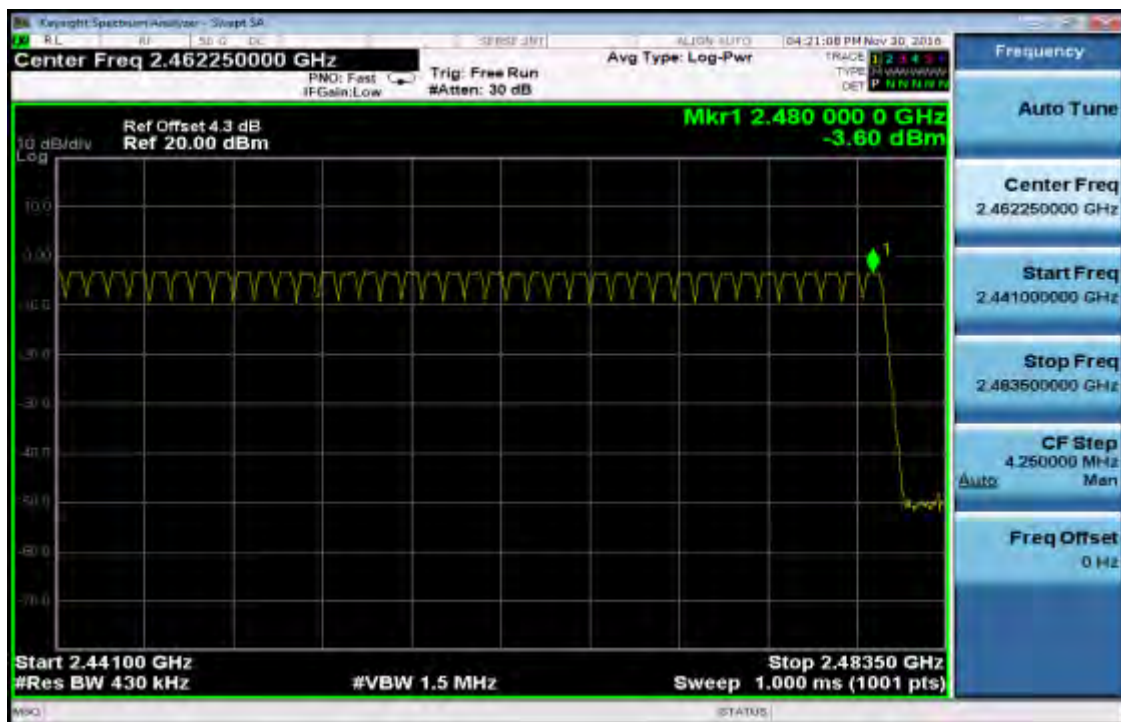
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Channel Number

2.4 GHz – 2.441GHz



2.441GHz – 2.4835GHz



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13 TIME OF OCCUPANCY (DWELL TIME)

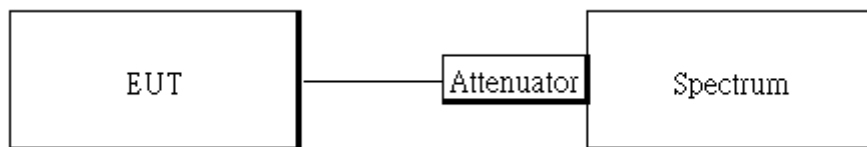
13.1 Standard Applicable

Frequency hopping systems operating in the 2400MHz-2483.5MHz. The average time of occupancy on any frequency shall not greater than 0.4 s within period of 0.4 seconds multiplied by the number of hopping channel employed.

13.2 Measurement Equipment Used

| Conducted Emission Test Site | | | | | |
|------------------------------|-----------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | KEYSIGHT | N9010A | MY54510568 | 04/14/2016 | 04/13/2017 |
| DC Block | PASTERNAK | PE8210 | RF29 | 12/12/2015 | 12/11/2016 |
| Splitter | RF-LAMBDA | RFLT2W1G18G | RF35 | 12/12/2015 | 12/11/2016 |
| Attenuator | WOKEN | 218FS-10 | RF23 | 12/12/2015 | 12/11/2016 |

13.3 Test Set-up



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13.4 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set center frequency of spectrum analyzer = operating frequency.
5. Set the spectrum analyzer as RBW, VBW=1MHz, 3MHz, Span = 0Hz , Detector = Peak, Adjust Sweep = 2~8ms.
6. Repeat above procedures until all frequency of the interest measured were complete.

Formula Deduced: time occupancy of one time slot X Hopping rate / total slot in one channel / total channel that hops X period of working channels.

Where, standard hopping rate is 1600 hops/s, slot in one channel for DH1, DH3, and DH5 is 2, 4, and 6, respectively.

DH1 consists of single time slot of the uplink, and one slot of the downlink Total Slot: 2

DH3 consists of three time slot of the uplink, and one slot of the downlink. Total Slot: 4

DH5 consists of five time slot of the uplink, and one slot of the downlink. Total Slot: 6

In AFH mode, hopping rate is 800 hop/s with 6 slots in 20 hopping channels with channel hopping rate $(800 / 6 / 20)$ in Occupancy Time Limit $(0.4 * 20)$ (S), Hop Over Occupancy Time comes to $(800 / 6 / 20) * (0.4 * 20) = 53.33$

Note: the result of the complete test default channel at 1Mbps is recorded on the test report, 2Mbps, and 3Mbps only records the measurement result at middle channel that reveals no much deviation.

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13.5 Tabular Result of the Measurement

GFSK (1Mbps)

| Channel | PACKET TYPE | Measurement Result (ms) | Limit (ms) |
|---------|-------------|-------------------------|------------|
| 0 | DH1 | 133.76 | 400ms |
| | DH3 | 264.64 | 400ms |
| | DH5 | 308.16 | 400ms |
| 39 | DH1 | 133.76 | 400ms |
| | DH3 | 265.44 | 400ms |
| | DH5 | 308.16 | 400ms |
| 78 | DH1 | 133.76 | 400ms |
| | DH3 | 264.64 | 400ms |
| | DH5 | 308.16 | 400ms |

A period time = 0.4 (s) * 79 = 31.6 (s)

GFSK (1Mbps):

| | | | | | | | | |
|---------|-----------------|-------|---|-------------|---|------|---|-------------|
| CH Low | DH1 time slot = | 0.418 | * | (1600/2/79) | * | 31.6 | = | 133.76 (ms) |
| | DH3 time slot = | 1.654 | * | (1600/4/79) | * | 31.6 | = | 264.64 (ms) |
| | DH5 time slot = | 2.889 | * | (1600/6/79) | * | 31.6 | = | 308.16 (ms) |
| CH Mid | DH1 time slot = | 0.418 | * | (1600/2/79) | * | 31.6 | = | 133.76 (ms) |
| | DH3 time slot = | 1.659 | * | (1600/4/79) | * | 31.6 | = | 265.44 (ms) |
| | DH5 time slot = | 2.889 | * | (1600/6/79) | * | 31.6 | = | 308.16 (ms) |
| CH High | DH1 time slot = | 0.418 | * | (1600/2/79) | * | 31.6 | = | 133.76 (ms) |
| | DH3 time slot = | 1.654 | * | (1600/4/79) | * | 31.6 | = | 264.64 (ms) |
| | DH5 time slot = | 2.889 | * | (1600/6/79) | * | 31.6 | = | 308.16 (ms) |

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| GFSK (1Mbps) for AFH Mode | | | |
|--------------------------------|-------------|-------------------------|------------|
| Hopping Channel Number | PACKET TYPE | Measurement Result (ms) | Limit (ms) |
| 20 | DH5 | 154.08 | 400ms |
| $\pi/4$ DQPSK (2Mbps) for Mode | | | |
| Hopping Channel Number | PACKET TYPE | Measurement Result (ms) | Limit (ms) |
| 20 | DH5 | 0.00 | 400ms |
| 8-DPSK (3Mbps) for AFH Mode | | | |
| Hopping Channel Number | PACKET TYPE | Measurement Result (ms) | Limit (ms) |
| 20 | DH5 | 0.00 | 400ms |

GFSK (1Mbps):

DH5 time sl = 2.889 (ms) * (800/6/20) * 8 = 154.08 (ms)

$\pi/4$ -DQPSK (2Mbps)

2DH5 time := 0.000 (ms) * (800/6/20) * 8 = 0.00 (ms)

8-DPSK (3Mbps):

3DH5 time := 0.000 (ms) * (800/6/20) * 8 = 0.00 (ms)

13.6 Measurement Result

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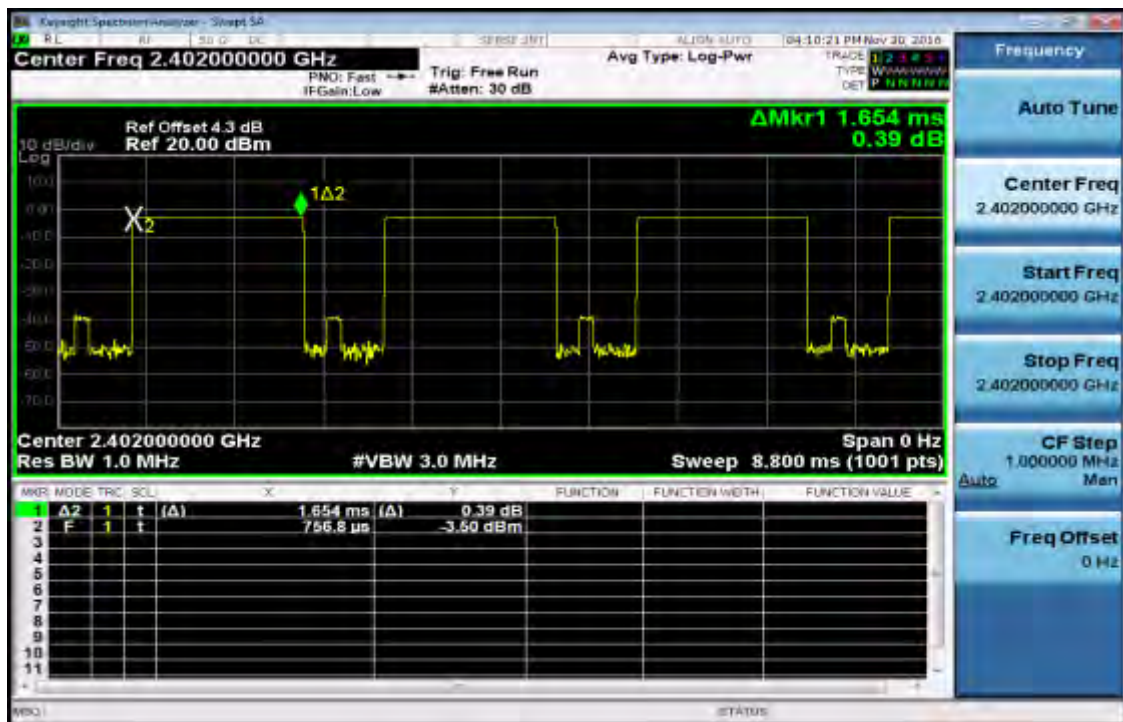
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CH-Low

DH1



DH3



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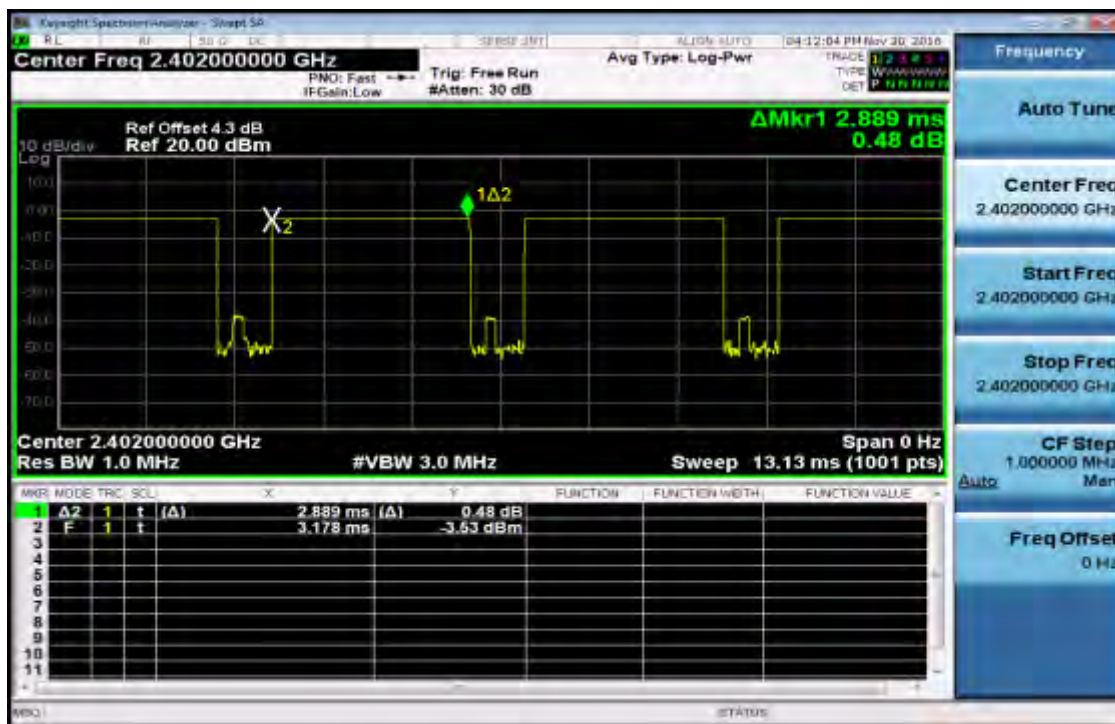
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DH5



CH-Mid DH1



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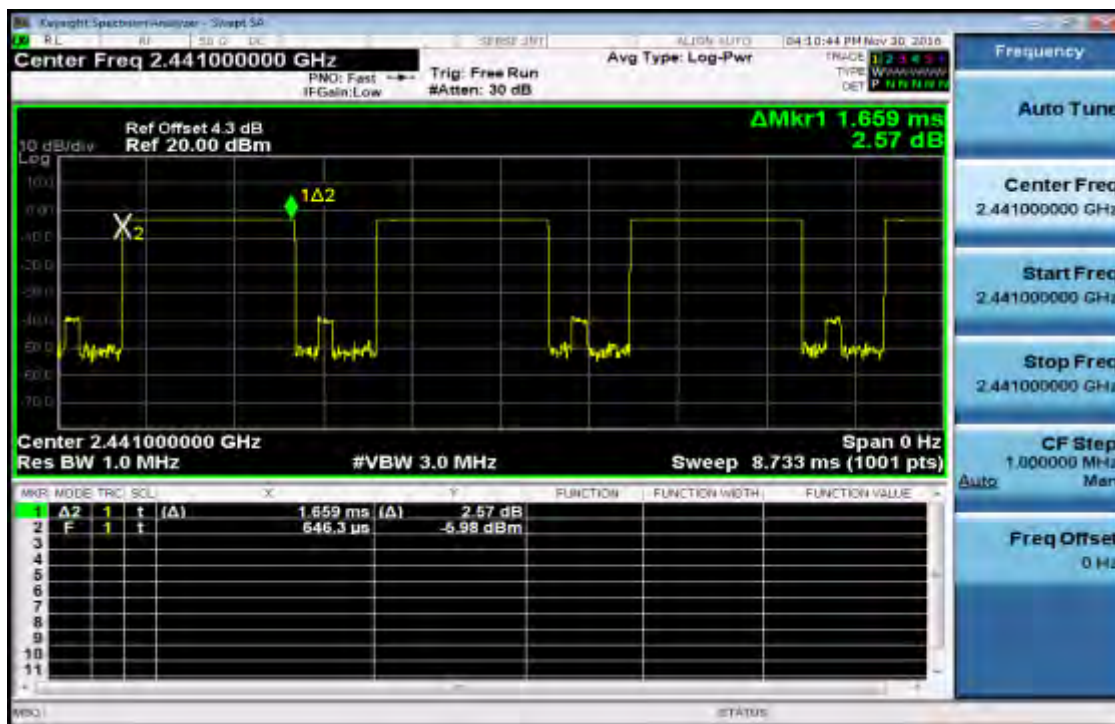
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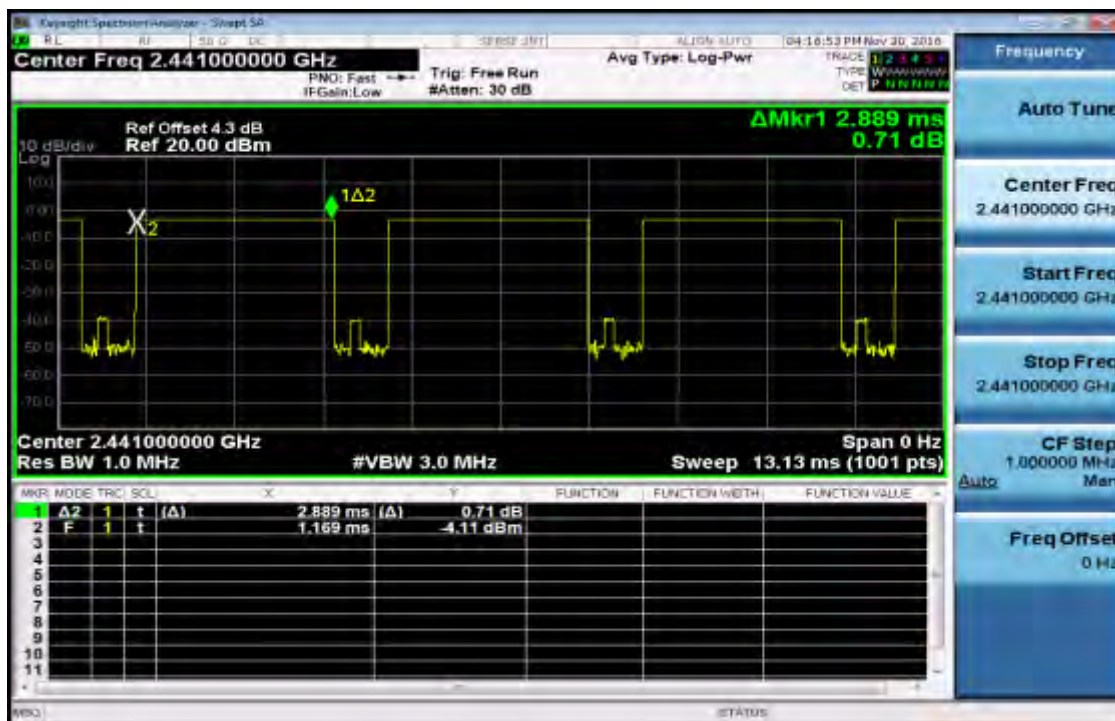
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DH3



DH5



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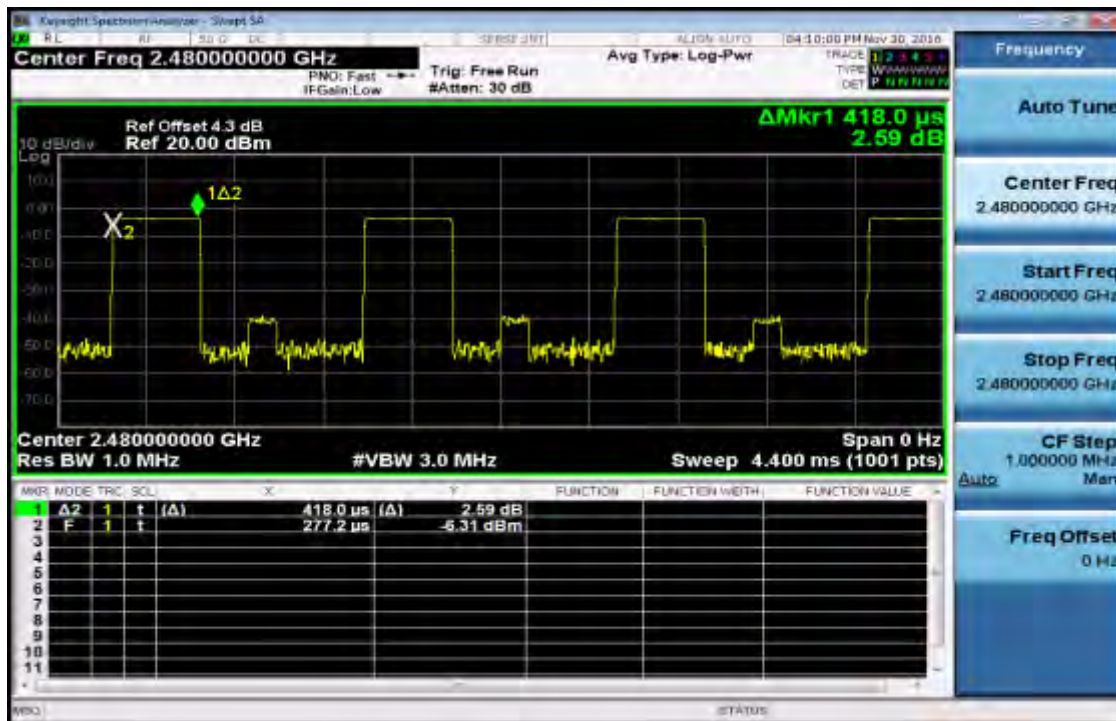
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CH-High DH1



DH3



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DH5



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14 ANTENNA REQUIREMENT

14.1 Standard Applicable

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

If the transmitting antenna is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

14.2 Antenna Connected Construction

An embedded-in antenna design is used.

The antenna connector is designed with unique type RF connector and no consideration of replacement. Please see EUT photo and antenna spec. for details.

~ End of Report ~

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