

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C AND CANADA RSS-210 REQUIREMENT

OF

Product Name: 2.4GHz Wireless Dongle

Brand Name: N/A

Model No.: C36

Model Difference: N/A

FCC ID: P5A-CL0031
IC: 9468A-000C36

Report No.: E2/2014/30051

Issue Date: May 05, 2014

FCC Rule Part: §15.249

IC Rule Part: RSS-210 issue 8: 2010, Annex 2.9
ARESON Technology Corp.

Prepared for: 11F, No.646, Sec.5, Chongxin Rd., SanChong Dist.,
New Taipei City 241,Taiwan (R.O.C.)

Prepared by: SGS Taiwan Ltd.
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County, Taiwan 333



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VERIFICATION OF COMPLIANCE

Applicant: ARESON Technology Corp.
11F, No.646, Sec.5, Chongxin Rd., SanChong Dist., New Taipei City
241,Taiwan (R.O.C.)

Product Description: 2.4GHz Wireless Dongle

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Brand Name: N/A

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Model Difference: N/A

File Number: E2/2014/30051

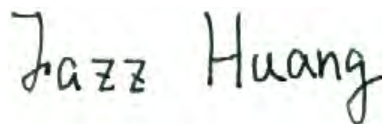
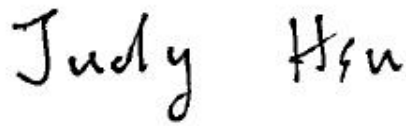
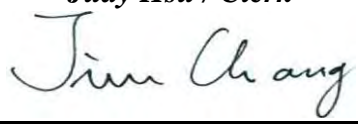
Date of test: Mar. 27, 2014 ~ May 05, 2014

Date of EUT Received: Mar. 27, 2014

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 C63.4:2009 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.249 and RSS-210 issue 8: 2010 Annex 2.9.

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

| | | | |
|---------------------|---|--------------|--------------|
| Test By: |  | Date: | May 05, 2014 |
| | <hr/> <i>Jazz Huang / Sr. Engineer</i> | | |
| Prepared By: |  | Date: | May 05, 2014 |
| | <hr/> <i>Judy Hsu / Clerk</i> | | |
| Approved By: |  | Date: | May 05, 2014 |
| | <hr/> <i>Jim Chang / Supervisor</i> | | |

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Version

| Version No. | Date | Description |
|-------------|--------------|------------------------------|
| 00 | May 05, 2014 | Initial creation of document |
| | | |

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1. GENERAL INFORMATION

1.1. Product Description

| | |
|----------------------|------------------------|
| Product Name: | 2.4GHz Wireless Dongle |
| Brand Name: | N/A |
| Model No.: | C36 |
| Model Difference: | N/A |
| Hardware Version | 00 |
| Software Version | MA6410V_6 |
| Operation Frequency: | 2408~2474MHz |
| Channel number: | 34 channels |
| Channel Spacing: | 2MHz |
| Modulation Type: | GFSK |
| Power Supply | 5V form USB Port |
| Antenna Designation: | Printed Antenna |

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1.2. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: P5A-CL0031** filing to comply with Section 15.249 of the FCC Part 15, Subpart C Rules and **IC: 9468A-000C36** filing to comply with Industry Canada RSS-210 issue 8: 2010 Annex 2.9.

1.3. Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4:2009 and RSS-Gen: 2010. Radiated testing was performed at an antenna to EUT distance 3 meters.

1.4. Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan Township, Taoyuan Coun, Taoyuan County, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2009. FCC Registration Number: 628985, Canada Registration Number: 4620A-5.

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan Township, Taoyuan Coun, Taoyuan County, Taiwan which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. FCC Registration Number: 455997. IC Registration Number: 4620A-6.

1.5. Special Accessories

Not available for this EUT intended for grant.

1.6. Equipment Modifications

Not available for this EUT intended for grant.

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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

The Transmitter was operated in the engineering operating mode. the Tx frequency was fixed at 2408, 2440 and 2474 MHz which were for the purpose of the measurements.

2.3. Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the requirements in Section 7.3.1 of ANSI C63.4-2009 and RSS-Gen: 2010. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and Average detector mode.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. 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 hand-held transmitter(EUT) was rotated through three orthogonal axes according to the requirements in Section 8 and 13 of ANSI C63.4:2009 and RSS-Gen:2010.

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2.4. Limitation

(1) Conducted Emission

According to section 15.207(a) and RSS-Gen §7.2.2 Conducted Emission Limits is as following.

| Frequency (MHz) | Conducted Limit (dBuV) | |
|-----------------|------------------------|---------|
| | Quasi-Peak | Average |
| 0.15 – 0.5 | 66 - 56 | 56 - 46 |
| 0.5 – 5 | 56 | 46 |
| 5 - 30 | 60 | 50 |

(2) Radiated Emission 15.249(a) and RSS-210 issue 8, §A2.9(a)

The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following.

| Frequency (MHz) | Field strength of Fundamental | Field strength of Harmonics | Distance (m) |
|-----------------|-------------------------------|-----------------------------|--------------|
| 902 - 928 | 50 mV/m (94dBuV/m) | 500 uV/m (54dBuV/m) | 3 |
| 2400 – 2483.5 | 50 mV/m (94dBuV/m) | 500 uV/m (54dBuV/m) | 3 |
| 5725 – 5875 | 50 mV/m (94dBuV/m) | 500 uV/m (54dBuV/m) | 3 |

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(3) Radiated Emission 15.249 (d) and RSS-210 issue 8, §A2.9(b)

Emission Radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits in Section 15.209 and RSS-210 issue 8, §A2.9(a) as below, whichever is the lesser attenuation.

| Frequency (MHz) | Field strength $\mu\text{V/m}$ | Distance (m) | Field strength at 3m $\text{dB}\mu\text{V/m}$ |
|-----------------|--------------------------------|--------------|---|
| 1.705-30 | 30 | 30 | 69.54 |
| 30-88 | 100 | 3 | 40 |
| 88-216 | 150 | 3 | 43.5 |
| 216-960 | 200 | 3 | 46 |
| Above 960 | 500 | 3 | 54 |

(4) Radiated Emission 15.249(e) and RSS-210 issue 8

For frequencies above 1000MHz, the above field strength limits are based on average limits. The peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20dB under any condition of modulation.

- Remark:
1. Emission level in $\text{dB}\mu\text{V/m} = 20 \log(\mu\text{V/m})$
 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of § 15.205
 4. Emission spurious frequency which appearing within the Restricted Bands specified in provision of §15.205, then the general radiated emission limits in § 15.209 apply.

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2.5. Configuration of Tested System

Fig. 2-1 Configuration

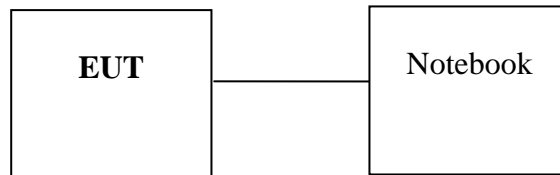


Table 2-1 Equipment Used in Tested System

| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. | Data Cable | Power Cord |
|------|---------------|-----------|----------------|------------|------------|------------|
| 1. | Notebook | Lenovo | L412 | LR-027LM | N/A | N/A |
| 2. | Test software | N/A | N/A | N/A | N/A | N/A |

Note: All the above equipment/cables were placed in worse case positions to maximize emission signals during emission test.

Grounding: Grounding was in accordance with the manufacturer's requirements and conditions for the intended use.

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3. SUMMARY OF TEST RESULTS

| FCC Rules | Description Of Test | Result |
|---|---|-----------|
| § 15.207/ RSS-Gen §7.2.2 | Conducted Emission | N/A |
| § 15.249(a)(d)(e) RSS-210 issue 8, §A2.9(a)(b) | Field Strength Measurement (TX and RX) | Compliant |
| § 15.215(c) | 20dB band width Measurement | Compliant |
| RSS-Gen §4.6.1 | 99% Power Bandwidth | Compliant |

4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

Test program used to control the EUT for staying in continuous transmitting and receive mode is programmed.

Channel low (2408MHz) 、 mid (2440MHz) and high (2474MHz) with highest data rate are chosen for full testing.

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5. MEASUREMENT UNCERTAINTY

| Test Items | Uncertainty |
|---|--------------------------|
| AC Power Line Conducted Emission | +/- 2.586 dB |
| 20dB Bandwidth | +/- 123.36 Hz |
| 100 KHz Bandwidth Of Frequency Band Edges | +/- 1.55 dB |
| Temperature | +/- 0.8 °C |
| Humidity | +/- 4.7 % |
| DC / AC Power Source | DC= +/- 1%, AC= +/- 0.2% |

Radiated Spurious Emission:

| | |
|--|----------------------------|
| Measurement uncertainty (Polarization : Vertical) | 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) | 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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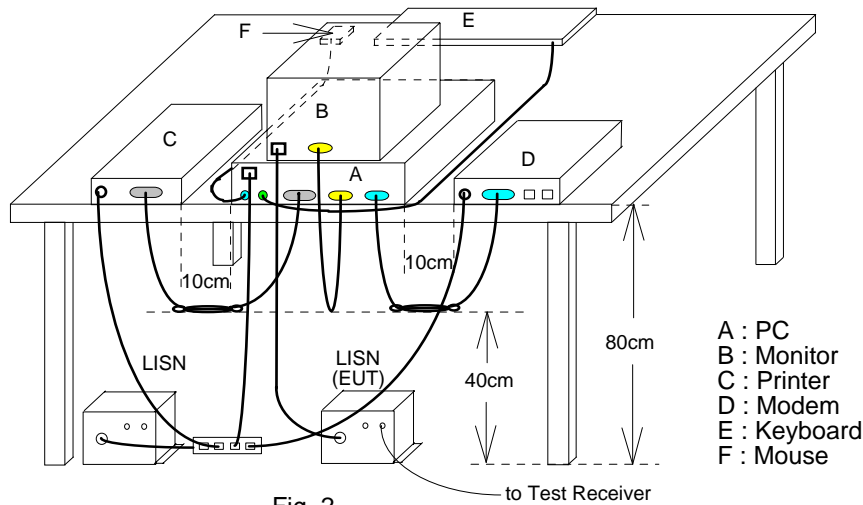
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6. CONDUCTED EMISSIONS TEST

6.1 Measurement Procedure:

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

6.2 Test SET-UP (Block Diagram of Configuration)



6.3 Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|-------------|--------------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| EMI Test Receiver | R&S | ESCI 3 | 101311 | 2013/06/27 | 06/26/2014 |
| Coaxial Cables | N/A | N30N30-1042-150 cm | N/A | 2014/02/07 | 02/06/2015 |
| LISN | Schwarzbeck | NSLK 8127 | 8127-648 | 2013/06/17 | 06/16/2014 |
| LISN | Rolf-Heine | NNB-2/16Z | 99012 | 2014/03/26 | 03/25/2015 |
| Test Software | Farad | EZ-EMC | Ver. SGS-03A2 | N.C.R. | N.C.R. |

6.4 Measurement Result:

Note1: Refer to next page for measurement data and plots.

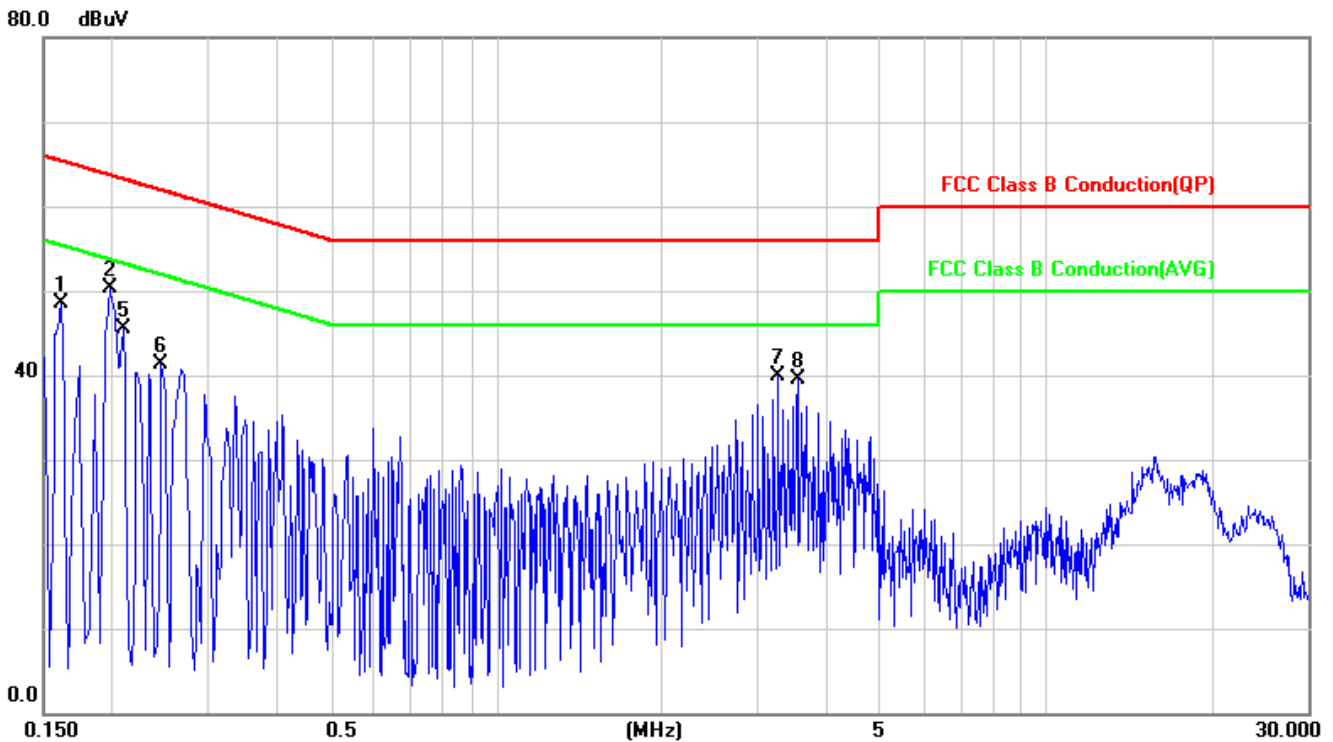
Note2: The * reveals the worst-case results that closet to the limit

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AC POWER LINE CONDUCTED EMISSION TEST DATA

| | | | | | |
|-----------------|----------------------------|-----------|------------|--------------|------|
| Operation Mode: | Charger Mode | | Test Date: | May 08, 2014 | |
| Temperature: | 19 °C | Humidity: | 58 % | Test By: | Jazz |
| Limit: | FCC Class B Conduction(QP) | | Probe: | L1 | |



| No | ME | Freq (MHz) | Reading (dBuV) | Factor (dB) | Measurement (dBuV) | Limit (dBuV) | Over (dB) | Detector | Comment |
|----|----|---------------|-------------------|----------------|-----------------------|-----------------|--------------|----------|---------|
| 1 | | 0.1620 | 48.02 | 0.54 | 48.56 | 65.36 | -16.80 | peak | |
| 2 | * | 0.1980 | 49.69 | 0.53 | 50.22 | 63.69 | -13.47 | peak | |
| 3 | | 0.2000 | 49.30 | 0.53 | 49.83 | 63.61 | -13.78 | QP | |
| 4 | | 0.2000 | 39.20 | 0.53 | 39.73 | 53.61 | -13.88 | AVG | |
| 5 | | 0.2100 | 44.93 | 0.53 | 45.46 | 63.21 | -17.75 | peak | |
| 6 | | 0.2460 | 40.70 | 0.55 | 41.25 | 61.89 | -20.64 | peak | |
| 7 | | 3.2660 | 38.76 | 1.07 | 39.83 | 56.00 | -16.17 | peak | |
| 8 | | 3.5300 | 38.53 | 1.07 | 39.60 | 56.00 | -16.40 | peak | |

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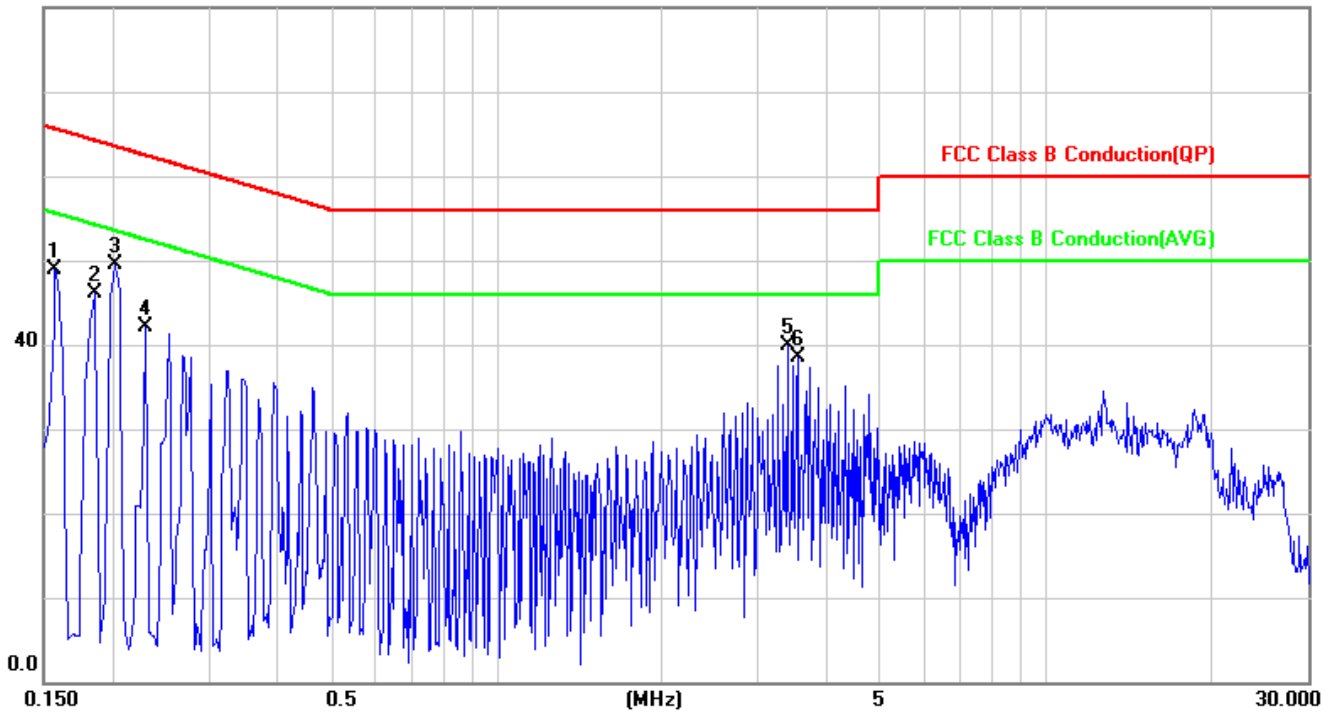
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| | | | | | |
|-----------------|----------------------------|-----------|------------|--------------|------|
| Operation Mode: | Charger Mode | | Test Date: | May 08, 2014 | |
| Temperature: | 19 °C | Humidity: | 58 % | Test By: | Jazz |
| Limit: | FCC Class B Conduction(QP) | | | Probe: | N |

80.0 dBuV



| No. | Mk | Freq. (MHz) | Reading (dBuV) | Factor (dB) | Measurement (dBuV) | Limit (dBuV) | Over (dB) | Detector | Comment |
|-----|----|----------------|-------------------|----------------|-----------------------|-----------------|--------------|----------|---------|
| 1 | | 0.1580 | 48.74 | 0.18 | 48.92 | 65.57 | -16.65 | peak | |
| 2 | | 0.1860 | 45.99 | 0.18 | 46.17 | 64.21 | -18.04 | peak | |
| 3 | * | 0.2020 | 49.33 | 0.18 | 49.51 | 63.53 | -14.02 | peak | |
| 4 | | 0.2300 | 41.86 | 0.19 | 42.05 | 62.45 | -20.40 | peak | |
| 5 | | 3.3940 | 39.08 | 0.75 | 39.83 | 56.00 | -16.17 | peak | |
| 6 | | 3.5300 | 37.77 | 0.76 | 38.53 | 56.00 | -17.47 | peak | |

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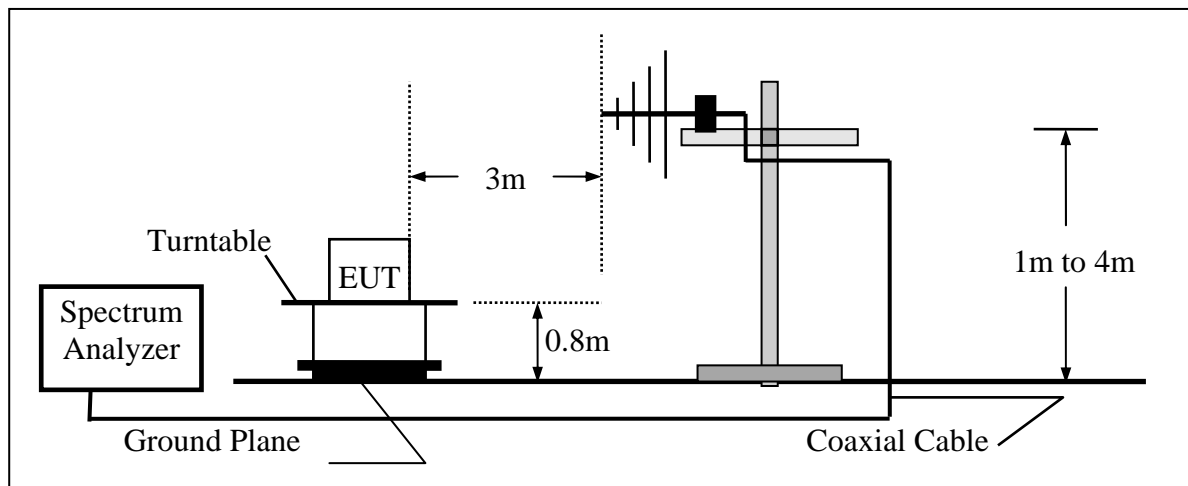
7. RADIATED EMISSION TEST

7.1 Measurement Procedure

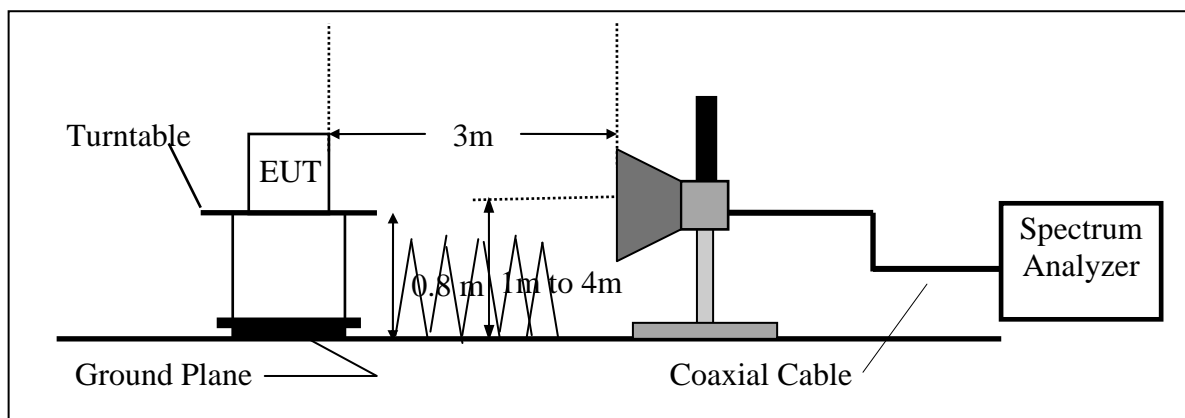
1. The EUT was placed on a turntable that is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.

7.2 Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



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



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7.3 Measurement Equipment Used:

| SGS SAC Chamber No.C (FCC) | | | | | |
|----------------------------|-----------------|---------------|---------------|------------------|-----------------|
| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due |
| EMI Test Receiver | R&S | ESU 40 | 100363 | 04/12/2014 | 04/11/2015 |
| Loop Antenna | ETS-Lindgren | 6502 | 00143303 | 01/16/2014 | 01/15/2015 |
| Broadband Antenna | TESEQ | CBL 6112D | 35240 | 01/17/2014 | 01/16/2015 |
| Horn Antenna | ETS-Lindgren | 3117 | 00143272 | 01/27/2014 | 01/26/2015 |
| Horn Antenna | Schwarzbeck | BBHA9170 | BBHA9170-184 | 01/23/2014 | 01/22/2015 |
| Horn Antenna | ETS-Lindgren | 3160-09 | 00117911 | 01/22/2014 | 01/21/2015 |
| Horn Antenna | ETS-Lindgren | 3160-10 | 00117783 | 01/22/2014 | 01/21/2015 |
| Pre Amplifier | R&S | SCU-18 | 10204 | 03/26/2014 | 03/25/2015 |
| Pre Amplifier | R&S | SCU-26 | 100780 | 03/26/2014 | 03/25/2015 |
| Pre Amplifier | R&S | SCU-40 | 100356 | 03/26/2014 | 03/25/2015 |
| Pre Amplifier | EMC Instruments | EMC330 | 980096 | 03/26/2014 | 03/25/2015 |
| Pre Amplifier | EMC Instruments | EMC184045 | 980135 | 01/24/2014 | 01/23/2015 |
| Coaxial Cable | Huber+Suhner | RG 214/U | W21.03 | 03/26/2014 | 03/25/2015 |
| Coaxial Cable | Huber+Suhner | RG 214/U | W22.03 | 03/26/2014 | 03/25/2015 |
| Coaxial Cable | Huber+Suhner | SUCCOFLEX 104 | MY17413/4 | 03/26/2014 | 03/25/2015 |
| Coaxial Cable | Huber+Suhner | SUCCOFLEX 104 | MY17404/4 | 03/26/2014 | 03/25/2015 |
| Coaxial Cable | Huber+Suhner | SUCCOFLEX 104 | MY17394/4 | 03/26/2014 | 03/25/2015 |
| Coaxial Cable | Huber+Suhner | SUCCOFLEX 104 | MY17386/4 | 03/26/2014 | 03/25/2015 |
| Coaxial Cable | Huber+Suhner | SUCCOFLEX 104 | MY17388/4 | 03/26/2014 | 03/25/2015 |
| Attenuator | WOKEN | 218FS-10 | HY-151 | 01/06/2014 | 01/05/2015 |
| Communication Tester | R&S | CMW500 | 131121 | 01/16/2014 | 01/15/2015 |
| Communication Tester | Anritsu | MT8820C | 6201107337 | 04/23/2014 | 04/22/2015 |
| 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. |
| Site NSA | SGS | 966 Chamber C | SAC-C | 03/05/2014 | 03/04/2015 |
| Site VSWR | SGS | 966 Chamber C | SAC-C | 04/10/2014 | 04/09/2015 |
| Test Software | World-Pallas | Dr. E | V 3.0 Lite | N.C.R. | N.C.R. |

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7.4 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 | |

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7.5 Measurement Result

Radiated Spurious Emission Measurement Result

| | | | |
|-----------------------|--------------|--------------------------|---------------------|
| Operation Band | :2.4G | Test Date | :2014-04-30 |
| Fundamental Frequency | :2408 MHz | Temp./Humi. | :27.4 deg_C / 47 RH |
| Operation Mode | :TX LOW MAIN | Engineer | :Aken |
| EUT Pol. | :H | Measurement Antenna Pol. | :VERTICAL |

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

Factor(dB) = Antenna Factor(dBμV/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.

“---“ : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 2407.47 | F | Peak | 83.13 | 3.19 | 86.31 | 114.00 | -27.69 |
| 2407.47 | F | Average | 77.76 | 3.19 | 80.95 | 94.00 | -13.05 |

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| | | | |
|-----------------------|--------------|--------------------------|---------------------|
| Operation Band | :2.4G | Test Date | :2014-04-30 |
| Fundamental Frequency | :2408 MHz | Temp./Humi. | :27.4 deg_C / 47 RH |
| Operation Mode | :TX LOW MAIN | Engineer | : Aken |
| EUT Pol. | :H | Measurement Antenna Pol. | :HORIZONTAL |

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

Factor(dB) = Antenna Factor(dBμV/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.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 2407.90 | F | Peak | 87.12 | 3.19 | 90.31 | 114.00 | -23.69 |
| 2407.90 | F | Average | 82.16 | 3.19 | 85.35 | 94.00 | -8.65 |

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| | | | |
|-----------------------|--------------|--------------------------|---------------------|
| Operation Band | :2.4G | Test Date | :2014-04-30 |
| Fundamental Frequency | :2440 MHz | Temp./Humi. | :27.4 deg_C / 47 RH |
| Operation Mode | :TX MID MAIN | Engineer | : Aken |
| EUT Pol. | :H | Measurement Antenna Pol. | :VERTICAL |

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

Factor(dB) = Antenna Factor(dBμV/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.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 2439.46 | F | Peak | 83.15 | 3.26 | 86.41 | 114.00 | -27.59 |
| 2439.46 | F | Average | 79.95 | 3.26 | 83.21 | 94.00 | -10.79 |

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| | | | |
|-----------------------|--------------|--------------------------|---------------------|
| Operation Band | :2.4G | Test Date | :2014-04-30 |
| Fundamental Frequency | :2440 MHz | Temp./Humi. | :27.4 deg_C / 47 RH |
| Operation Mode | :TX MID MAIN | Engineer | : Aken |
| EUT Pol. | :H | Measurement Antenna Pol. | :HORIZONTAL |

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

Factor(dB) = Antenna Factor(dBμV/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.

“---” : denotes Noise Floor.

| 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 |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2439.48 | F | Peak | 87.21 | 3.26 | 90.46 | 114.00 | -23.54 |
| 2439.48 | F | Average | 85.09 | 3.26 | 88.35 | 94.00 | -5.65 |

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| | | | |
|-----------------------|---------------|--------------------------|---------------------|
| Operation Band | :2.4G | Test Date | :2014-04-30 |
| Fundamental Frequency | :2474 MHz | Temp./Humi. | :27.4 deg_C / 47 RH |
| Operation Mode | :TX HIGH MAIN | Engineer | : Aken |
| EUT Pol. | :H | Measurement Antenna Pol. | :VERTICAL |

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

Factor(dB) = Antenna Factor(dBμV/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.

“---“ : denotes Noise Floor.

| 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 |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2473.49 | F | Peak | 82.83 | 3.33 | 86.16 | 114.00 | -27.84 |
| 2473.49 | F | Average | 80.69 | 3.33 | 84.02 | 94.00 | -9.98 |

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| | | | |
|-----------------------|---------------|--------------------------|---------------------|
| Operation Band | :2.4G | Test Date | :2014-04-30 |
| Fundamental Frequency | :2474 MHz | Temp./Humi. | :27.4 deg_C / 47 RH |
| Operation Mode | :TX HIGH MAIN | Engineer | : Aken |
| EUT Pol. | :H | Measurement Antenna Pol. | :HORIZONTAL |

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

Factor(dB) = Antenna Factor(dBμV/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.

“---“ : denotes Noise Floor.

| 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 |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2473.48 | F | Peak | 87.07 | 3.33 | 90.40 | 114.00 | -23.60 |
| 2473.48 | F | Average | 84.74 | 3.33 | 88.07 | 94.00 | -5.93 |

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Radiated Spurious Emission Measurement Result

| | | | |
|-----------------------|---------------|--------------------------|---------------------|
| Operation Band | :2.4G | Test Date | :2014-04-30 |
| Fundamental Frequency | :2408 MHz | Temp./Humi. | :27.4 deg_C / 47 RH |
| Operation Mode | :BANDEDGE LOW | Engineer | : Aken |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |



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

Factor(dB) = Antenna Factor(dBµV/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.

“---” : denotes Noise Floor.

The trace on RE (radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBµV/m | dB | dBµV/m | dBµV/m | dB |
| 2390.00 | E | Peak | 42.43 | 3.14 | 45.57 | 74.00 | -28.43 |
| 2390.00 | E | Average | 27.93 | 3.14 | 31.07 | 54.00 | -22.93 |

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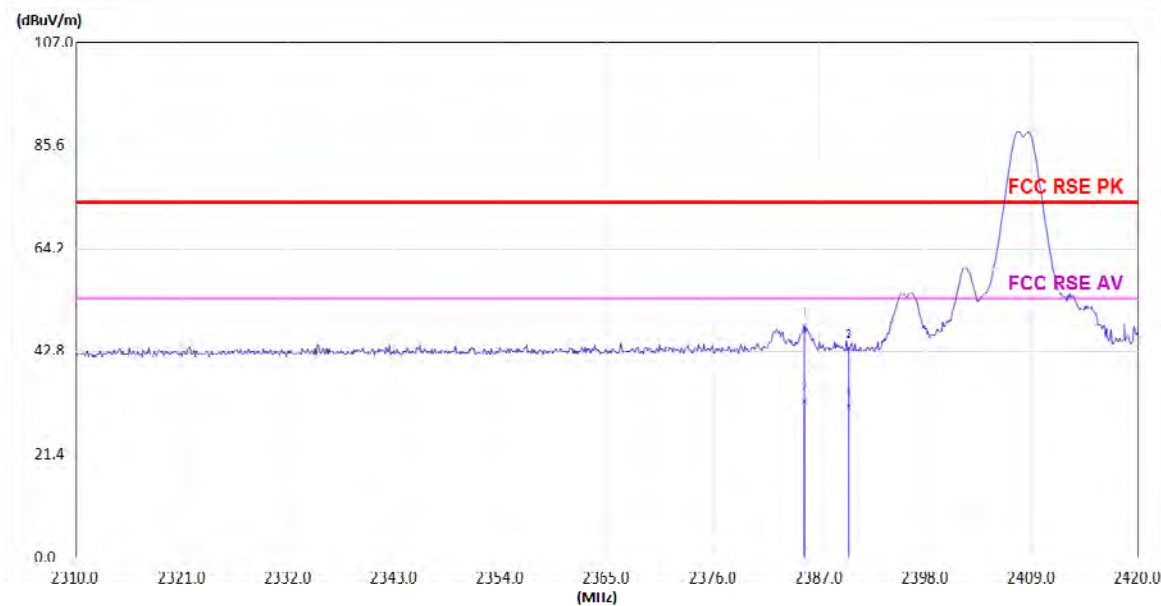
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|-----------------------|---------------|--------------------------|---------------------|
| Operation Band | :2.4G | Test Date | :2014-04-30 |
| Fundamental Frequency | :2408 MHz | Temp./Humi. | :27.4 deg_C / 47 RH |
| Operation Mode | :BANDEDGE LOW | Engineer | : Aken |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |



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

Factor(dB) = Antenna Factor(dB μ V/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.

“---“ : denotes Noise Floor.

The trace on RE (radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | Mode | Reading Level | dB | FS | @3m | dB |
| | | PK/QP/AV | dB μ V/m | | dB μ V/m | dB μ V/m | |
| 2390.00 | E | Peak | 40.51 | 3.14 | 43.65 | 74.00 | -30.35 |
| 2390.00 | E | Average | 28.32 | 3.14 | 31.46 | 54.00 | -22.54 |

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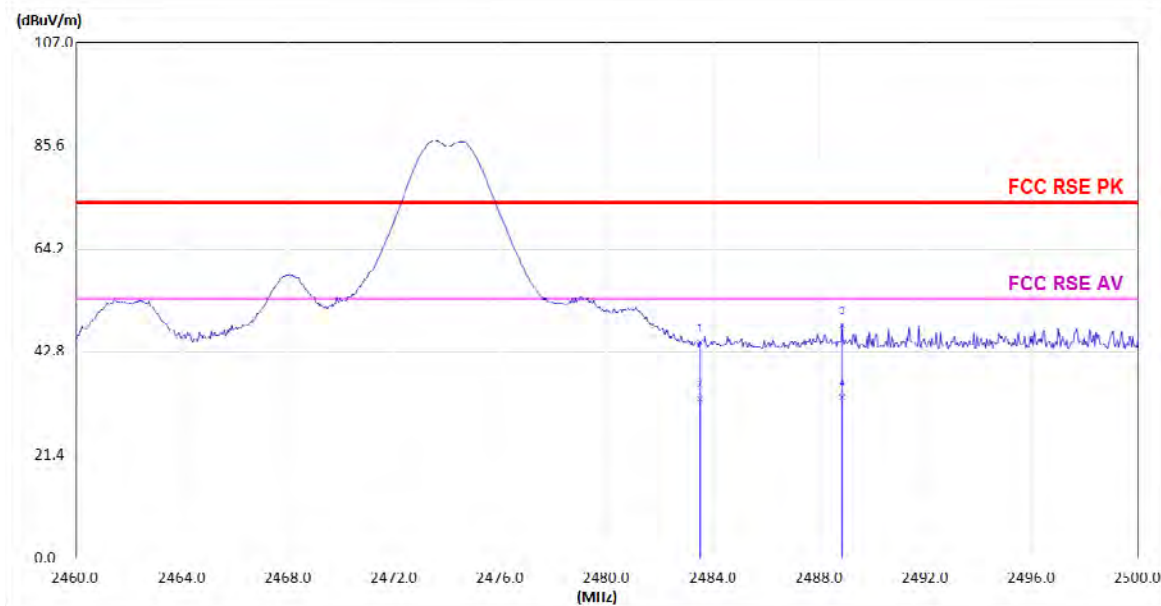
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|-----------------------|----------------|--------------------------|---------------------|
| Operation Band | :2.4G | Test Date | :2014-04-30 |
| Fundamental Frequency | :2474 MHz | Temp./Humi. | :27.4 deg_C / 47 RH |
| Operation Mode | :BANDEDGE HIGH | Engineer | : Aken |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :VERTICAL |



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

Factor(dB) = Antenna Factor(dBμV/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.

“---“ : denotes Noise Floor.

The trace on RE (radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | dB | FS | @3m | dB |
| | | PK/QP/AV | dBμV/m | | dBμV/m | dBμV/m | |
| 2483.50 | E | Peak | 41.54 | 3.35 | 44.89 | 74.00 | -29.11 |
| 2483.50 | E | Average | 29.77 | 3.35 | 33.12 | 54.00 | -20.88 |

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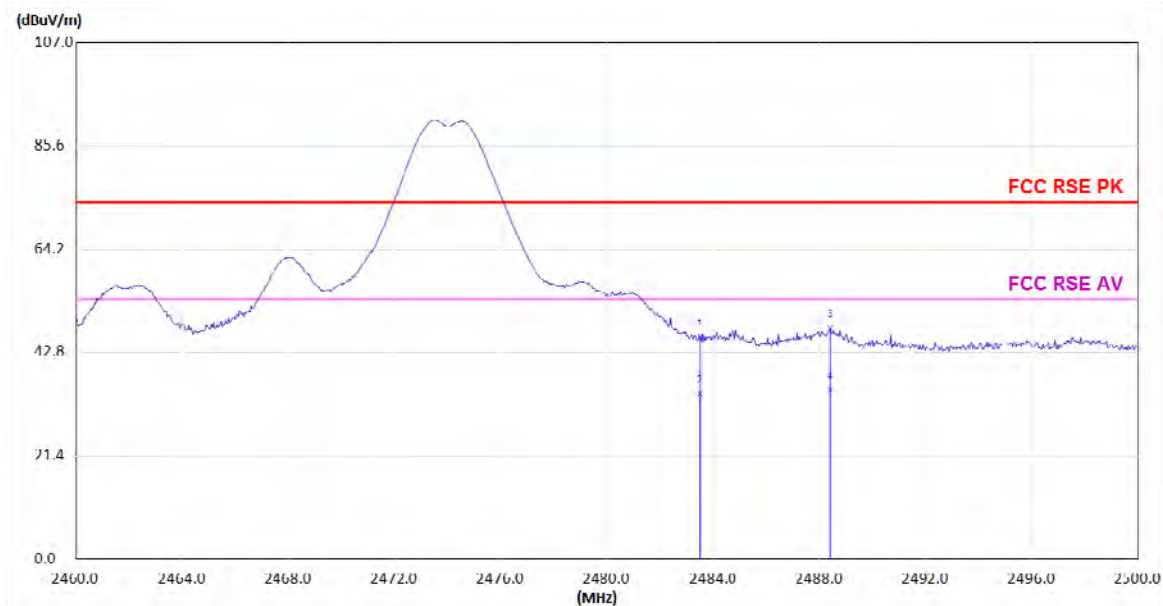
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|-----------------------|----------------|--------------------------|---------------------|
| Operation Band | :2.4G | Test Date | :2014-04-30 |
| Fundamental Frequency | :2474 MHz | Temp./Humi. | :27.4 deg_C / 47 RH |
| Operation Mode | :BANDEDGE HIGH | Engineer | : Aken |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |



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

Factor(dB) = Antenna Factor(dBμV/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.

“---“ : denotes Noise Floor.

The trace on RE (radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | dB | FS | @3m | dB |
| | | PK/QP/AV | dBμV/m | | dBμV/m | dBμV/m | |
| 2483.50 | E | Peak | 42.69 | 3.35 | 46.04 | 74.00 | -27.96 |
| 2483.50 | E | Average | 30.86 | 3.35 | 34.21 | 54.00 | -19.79 |

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|-----------------------|-----------|--------------------------|---------------------|
| Operation Band | :2.4G | Test Date | :2014-04-30 |
| Fundamental Frequency | :2408 MHz | Temp./Humi. | :27.4 deg_C / 47 RH |
| Operation Mode | :TX LOW | Engineer | : Aken |
| EUT Pol. | :H | Measurement Antenna Pol. | :VERTICAL |

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

Factor(dB) = Antenna Factor(dBμV/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.

“---” : denotes Noise Floor.

| 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 |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 109.54 | S | Peak | 60.97 | -22.12 | 38.85 | 43.50 | -4.65 |
| 119.24 | S | Peak | 58.95 | -21.75 | 37.20 | 43.50 | -6.30 |
| 277.35 | S | Peak | 53.80 | -19.61 | 34.19 | 46.00 | -11.81 |
| 416.06 | S | Peak | 54.69 | -15.05 | 39.64 | 46.00 | -6.36 |
| 670.20 | S | Peak | 48.50 | -11.56 | 36.94 | 46.00 | -9.06 |
| 970.90 | S | Peak | 45.72 | -8.42 | 37.31 | 54.00 | -16.69 |
| 1600.00 | S | Peak | 51.86 | -0.80 | 51.06 | 74.00 | -22.94 |
| 1600.00 | S | Average | 27.17 | -0.80 | 26.37 | 54.00 | -27.63 |
| 4816.00 | H | Peak | 44.76 | 0.38 | 45.14 | 74.00 | -28.86 |
| 4816.00 | H | Average | 29.29 | 0.38 | 29.67 | 54.00 | -24.33 |
| 7224.00 | H | Peak | -- | -- | -- | -- | -- |
| 9632.00 | H | Peak | -- | -- | -- | -- | -- |
| 12040.00 | H | Peak | -- | -- | -- | -- | -- |
| 14448.00 | H | Peak | -- | -- | -- | -- | -- |
| 16856.00 | H | Peak | -- | -- | -- | -- | -- |
| 19264.00 | H | Peak | -- | -- | -- | -- | -- |
| 21672.00 | H | Peak | -- | -- | -- | -- | -- |
| 24080.00 | H | Peak | -- | -- | -- | -- | -- |

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|-----------------------|-----------|--------------------------|---------------------|
| Operation Band | :2.4G | Test Date | :2014-04-30 |
| Fundamental Frequency | :2408 MHz | Temp./Humi. | :27.4 deg_C / 47 RH |
| Operation Mode | :TX LOW | Engineer | : Aken |
| EUT Pol. | : H | Measurement Antenna Pol. | :HORIZONTAL |

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

Factor(dB) = Antenna Factor(dBμV/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.

“---“ : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 101.78 | S | Peak | 43.41 | -22.93 | 20.48 | 43.50 | -23.02 |
| 213.33 | S | Peak | 60.49 | -24.19 | 36.29 | 43.50 | -7.21 |
| 399.57 | S | Peak | 50.37 | -15.64 | 34.73 | 46.00 | -11.27 |
| 670.20 | S | Peak | 44.46 | -11.56 | 32.91 | 46.00 | -13.09 |
| 842.86 | S | Peak | 37.70 | -9.70 | 28.00 | 46.00 | -18.00 |
| 970.90 | S | Peak | 39.69 | -8.42 | 31.28 | 54.00 | -22.72 |
| 1594.00 | S | Peak | 49.89 | 2.17 | 52.06 | 74.00 | -21.94 |
| 1594.00 | S | Average | 27.04 | 2.17 | 29.21 | 54.00 | -24.79 |
| 4816.00 | H | Peak | 41.97 | 0.38 | 42.35 | 74.00 | -31.65 |
| 4816.00 | H | Average | 30.57 | 0.38 | 30.95 | 54.00 | -23.05 |
| 7224.00 | H | Peak | -- | -- | -- | -- | -- |
| 9632.00 | H | Peak | -- | -- | -- | -- | -- |
| 12040.00 | H | Peak | -- | -- | -- | -- | -- |
| 14448.00 | H | Peak | -- | -- | -- | -- | -- |
| 16856.00 | H | Peak | -- | -- | -- | -- | -- |
| 19264.00 | H | Peak | -- | -- | -- | -- | -- |
| 21672.00 | H | Peak | -- | -- | -- | -- | -- |
| 24080.00 | H | Peak | -- | -- | -- | -- | -- |

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| | | | |
|-----------------------|-----------|--------------------------|---------------------|
| Operation Band | :2.4G | Test Date | :2014-04-30 |
| Fundamental Frequency | :2440 MHz | Temp./Humi. | :27.4 deg_C / 47 RH |
| Operation Mode | :TX MID | Engineer | : Aken |
| EUT Pol. | : H | Measurement Antenna Pol. | :VERTICAL |

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

Factor(dB) = Antenna Factor(dBμV/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.

“---“ : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 101.78 | S | Peak | 55.62 | -22.93 | 32.69 | 43.50 | -10.81 |
| 277.35 | S | Peak | 52.77 | -19.61 | 33.15 | 46.00 | -12.85 |
| 416.06 | S | Peak | 52.68 | -15.05 | 37.63 | 46.00 | -8.37 |
| 670.20 | S | Peak | 43.16 | -11.56 | 31.61 | 46.00 | -14.39 |
| 762.35 | S | Peak | 41.08 | -10.51 | 30.57 | 46.00 | -15.43 |
| 970.90 | S | Peak | 41.27 | -8.42 | 32.86 | 54.00 | -21.14 |
| 1594.00 | S | Peak | 52.06 | -0.83 | 51.23 | 74.00 | -22.77 |
| 1594.00 | S | Average | 29.45 | -0.83 | 28.62 | 54.00 | -25.38 |
| 4880.00 | H | Peak | 41.38 | 0.41 | 41.79 | 74.00 | -32.21 |
| 4880.00 | H | Average | 29.41 | 0.41 | 29.82 | 54.00 | -24.18 |
| 7320.00 | H | Peak | -- | -- | -- | -- | -- |
| 9760.00 | H | Peak | -- | -- | -- | -- | -- |
| 12200.00 | H | Peak | -- | -- | -- | -- | -- |
| 14640.00 | H | Peak | -- | -- | -- | -- | -- |
| 17080.00 | H | Peak | -- | -- | -- | -- | -- |
| 19520.00 | H | Peak | -- | -- | -- | -- | -- |
| 21960.00 | H | Peak | -- | -- | -- | -- | -- |
| 24400.00 | H | Peak | -- | -- | -- | -- | -- |

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| | | | |
|-----------------------|-----------|--------------------------|---------------------|
| Operation Band | :2.4G | Test Date | :2014-04-30 |
| Fundamental Frequency | :2440 MHz | Temp./Humi. | :27.4 deg_C / 47 RH |
| Operation Mode | :TX MID | Engineer | : Aken |
| EUT Pol. | : H | Measurement Antenna Pol. | :HORIZONTAL |

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

Factor(dB) = Antenna Factor(dBμV/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.

“---“ : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 85.29 | S | Peak | 52.84 | -25.67 | 27.17 | 40.00 | -12.83 |
| 277.35 | S | Peak | 56.40 | -19.61 | 36.79 | 46.00 | -9.21 |
| 450.01 | S | Peak | 48.89 | -15.10 | 33.80 | 46.00 | -12.20 |
| 554.77 | S | Peak | 45.24 | -12.36 | 32.87 | 46.00 | -13.13 |
| 670.20 | S | Peak | 44.13 | -11.56 | 32.57 | 46.00 | -13.43 |
| 970.90 | S | Peak | 42.65 | -8.42 | 34.23 | 54.00 | -19.77 |
| 1596.00 | S | Peak | 50.08 | 2.18 | 52.26 | 74.00 | -21.74 |
| 1596.00 | S | Average | 29.51 | 2.18 | 31.69 | 54.00 | -22.31 |
| 4880.00 | H | Peak | 40.73 | 0.41 | 41.14 | 74.00 | -32.86 |
| 4880.00 | H | Average | 29.41 | 0.41 | 29.82 | 54.00 | -24.18 |
| 7320.00 | H | Peak | -- | -- | -- | -- | -- |
| 9760.00 | H | Peak | -- | -- | -- | -- | -- |
| 12200.00 | H | Peak | -- | -- | -- | -- | -- |
| 14640.00 | H | Peak | -- | -- | -- | -- | -- |
| 17080.00 | H | Peak | -- | -- | -- | -- | -- |
| 19520.00 | H | Peak | -- | -- | -- | -- | -- |
| 21960.00 | H | Peak | -- | -- | -- | -- | -- |
| 24400.00 | H | Peak | -- | -- | -- | -- | -- |

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| | | | |
|-----------------------|-----------|--------------------------|---------------------|
| Operation Band | :2.4G | Test Date | :2014-04-30 |
| Fundamental Frequency | :2474 MHz | Temp./Humi. | :27.4 deg_C / 47 RH |
| Operation Mode | :TX HIGH | Engineer | : Aken |
| EUT Pol. | : H | Measurement Antenna Pol. | :VERTICAL |

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

Factor(dB) = Antenna Factor(dBμV/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.

“---“ : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 101.78 | S | Peak | 55.51 | -22.93 | 32.58 | 43.50 | -10.92 |
| 277.35 | S | Peak | 55.85 | -19.61 | 36.24 | 46.00 | -9.76 |
| 416.06 | S | Peak | 56.88 | -15.05 | 41.83 | 46.00 | -4.17 |
| 600.36 | S | Peak | 43.61 | -12.32 | 31.29 | 46.00 | -14.71 |
| 670.20 | S | Peak | 45.67 | -11.56 | 34.11 | 46.00 | -11.89 |
| 897.18 | S | Peak | 43.63 | -9.20 | 34.43 | 46.00 | -11.57 |
| 1596.00 | S | Peak | 52.49 | -0.82 | 51.66 | 74.00 | -22.34 |
| 1596.00 | S | Average | 27.17 | -0.82 | 26.35 | 54.00 | -27.65 |
| 4948.00 | H | Peak | 41.60 | 0.57 | 42.17 | 74.00 | -31.83 |
| 4948.00 | H | Average | 41.60 | 0.57 | 42.17 | 74.00 | -31.83 |
| 7422.00 | H | Peak | -- | -- | -- | -- | -- |
| 9896.00 | H | Peak | -- | -- | -- | -- | -- |
| 12370.00 | H | Peak | -- | -- | -- | -- | -- |
| 14844.00 | H | Peak | -- | -- | -- | -- | -- |
| 17318.00 | H | Peak | -- | -- | -- | -- | -- |
| 19792.00 | H | Peak | -- | -- | -- | -- | -- |
| 22266.00 | H | Peak | -- | -- | -- | -- | -- |
| 24740.00 | H | Peak | -- | -- | -- | -- | -- |

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| | | | |
|-----------------------|-----------|--------------------------|---------------------|
| Operation Band | :2.4G | Test Date | :2014-04-30 |
| Fundamental Frequency | :2474 MHz | Temp./Humi. | :27.4 deg_C / 47 RH |
| Operation Mode | :TX HIGH | Engineer | : Aken |
| EUT Pol. | : H | Measurement Antenna Pol. | :HORIZONTAL |

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

Factor(dB) = Antenna Factor(dBμV/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.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 186.17 | S | Peak | 59.23 | -24.34 | 34.89 | 43.50 | -8.61 |
| 277.35 | S | Peak | 60.80 | -19.61 | 41.19 | 46.00 | -4.81 |
| 450.01 | S | Peak | 48.14 | -15.10 | 33.04 | 46.00 | -12.96 |
| 554.77 | S | Peak | 46.02 | -12.36 | 33.65 | 46.00 | -12.35 |
| 670.20 | S | Peak | 44.51 | -11.56 | 32.95 | 46.00 | -13.05 |
| 898.15 | S | Peak | 43.16 | -9.20 | 33.97 | 46.00 | -12.04 |
| 1596.00 | S | Peak | 50.77 | 2.18 | 52.95 | 74.00 | -21.05 |
| 1596.00 | S | Average | 27.48 | 2.18 | 29.66 | 54.00 | -24.34 |
| 4948.00 | H | Peak | 41.80 | 0.57 | 42.37 | 74.00 | -31.63 |
| 4948.00 | H | Average | 29.36 | 0.57 | 29.93 | 54.00 | -24.07 |
| 7422.00 | H | Peak | -- | -- | -- | -- | -- |
| 9896.00 | H | Peak | -- | -- | -- | -- | -- |
| 12370.00 | H | Peak | -- | -- | -- | -- | -- |
| 14844.00 | H | Peak | -- | -- | -- | -- | -- |
| 17318.00 | H | Peak | -- | -- | -- | -- | -- |
| 19792.00 | H | Peak | -- | -- | -- | -- | -- |
| 22266.00 | H | Peak | -- | -- | -- | -- | -- |
| 24740.00 | H | Peak | -- | -- | -- | -- | -- |

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8. 20 dB BAND WIDTH MEASUREMENT

8.1 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set ETU normal operating mode.
3. Set SPA Center Frequency = fundamental frequency, RBW = 100kHz, VBW = 300kHz, Span = 5MHz.
4. Set SPA Max hold. Mark peak, -20dB.

8.2 Test SET-UP (Block Diagram of Configuration)

Same as 7.2 Radiated Emission Measurement.

8.3 Measurement Equipment Used:

Same as 7.3 Radiated Emission Measurement.

8.4 Measurement Results:

2408 Channel = 2.169MHz

2440 Channel = 2.168MHz

2474 Channel = 2.171MHz

Refer to attached data chart.

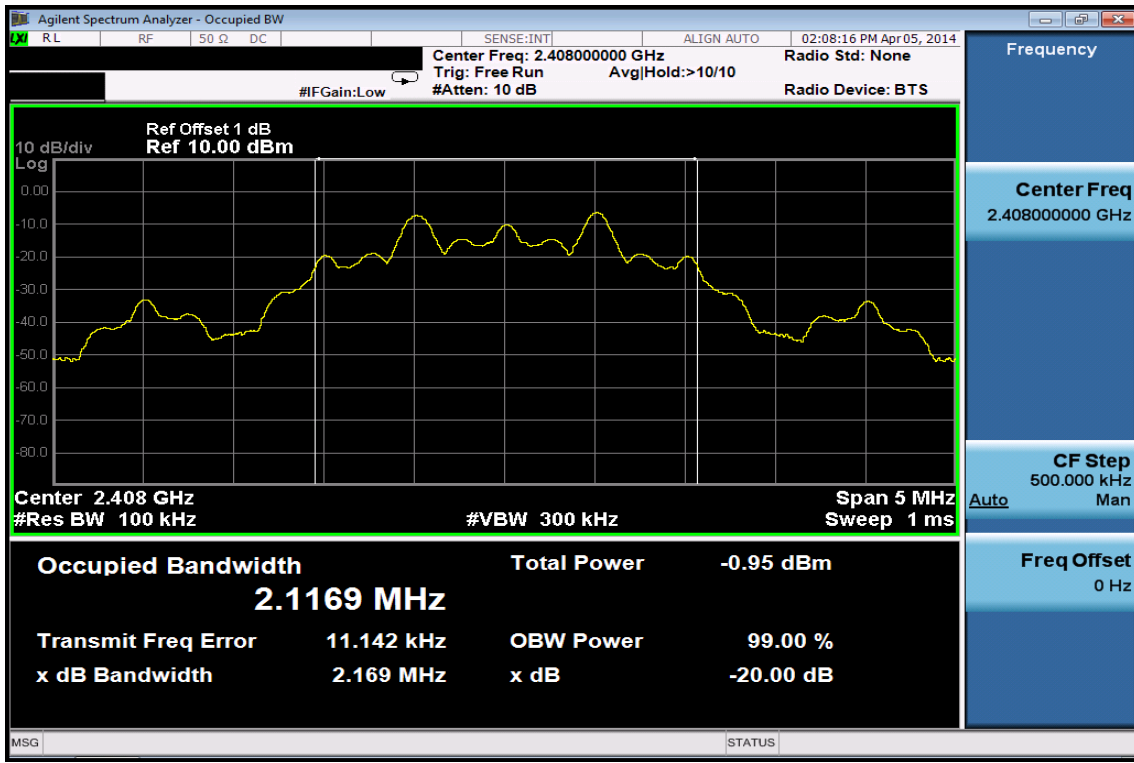
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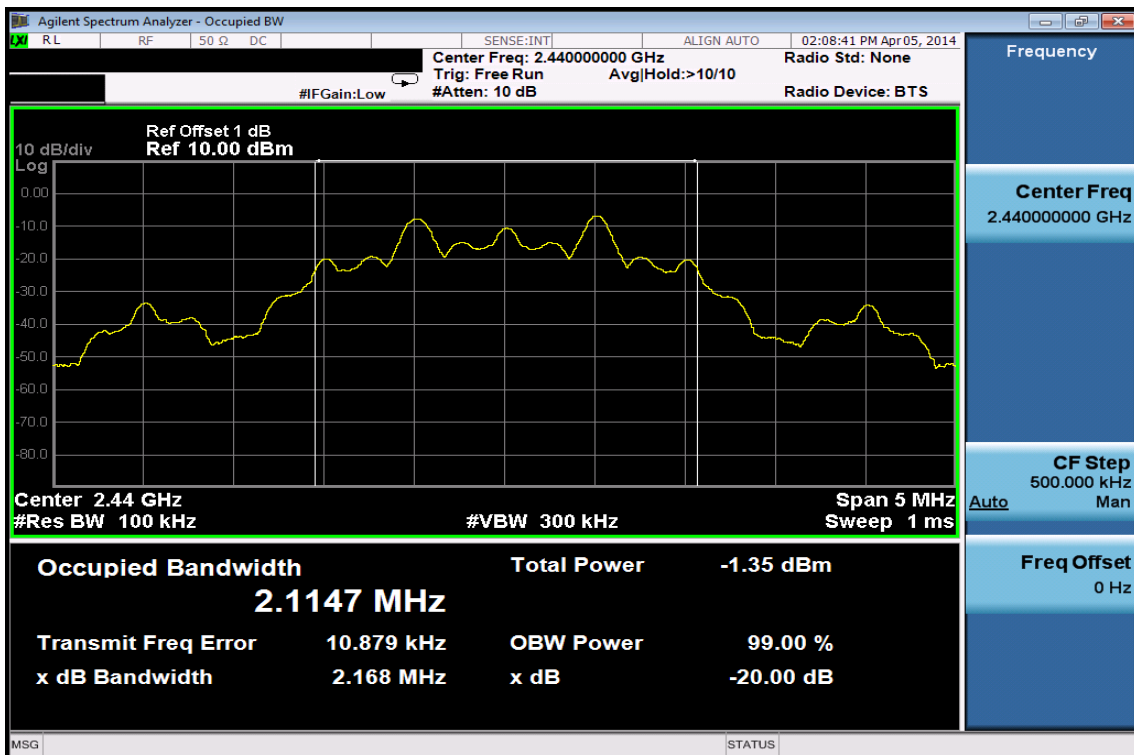
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20dB Bandwidth Test Data CH-Low



20dB Bandwidth Test Data CH-Mid



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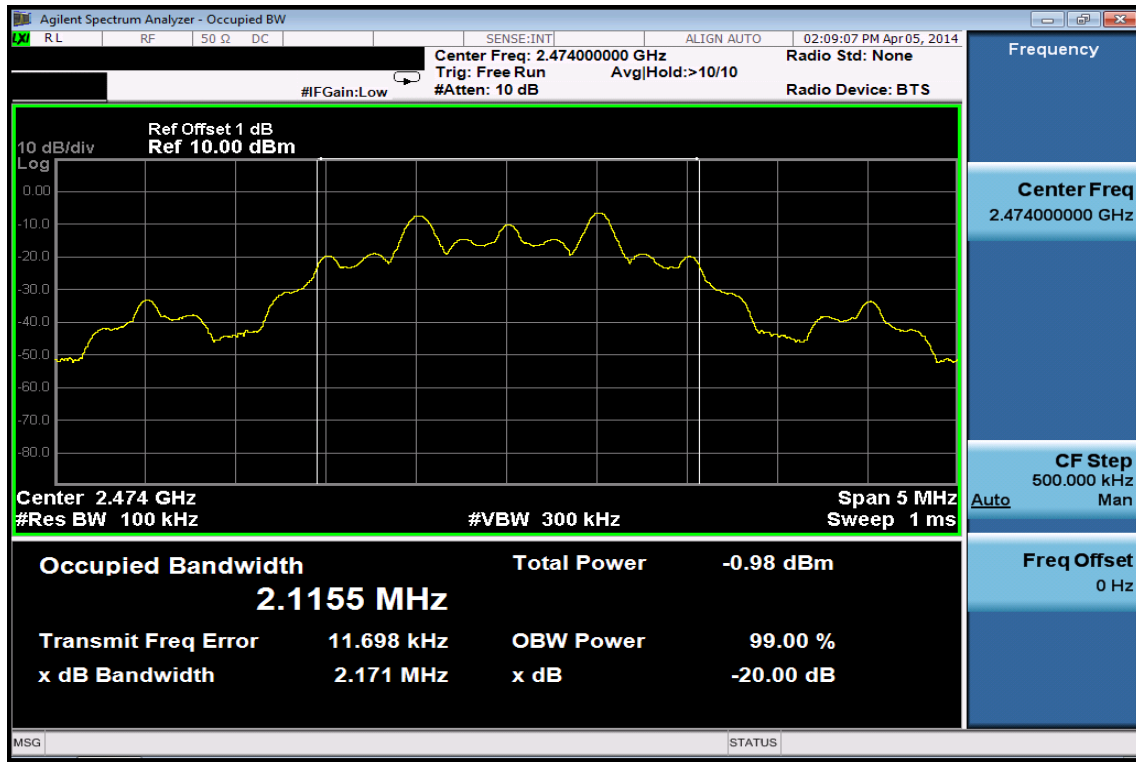
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20dB Bandwidth Test Data CH-High



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9. 99% BAND WIDTH MEASUREMENT

9.1 Measurement Procedure

- 1 Place the EUT on the table 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 the spectrum analyzer.
- 3 Set the spectrum analyzer as RBW=1% of the approximate emission bandwidth, VBW = 3 times RBW, Span= approximately 20dB below the peak level. Sweep=auto
- 4 Turn on the 99% bandwidth function, max reading..
- 5 Repeat above procedures until all frequency measured were complete.

9.2 Test SET-UP (Block Diagram of Configuration)

Same as 7.2 Radiated Emission Measurement.

9.3 Measurement Equipment Used:

Same as 7.3 Radiated Emission Measurement.

9.4 Measurement Results:

2408 Channel = 2.045MHz

2440 Channel = 2.045MHz

2474 Channel = 2.046MHz

Refer to attached data chart.

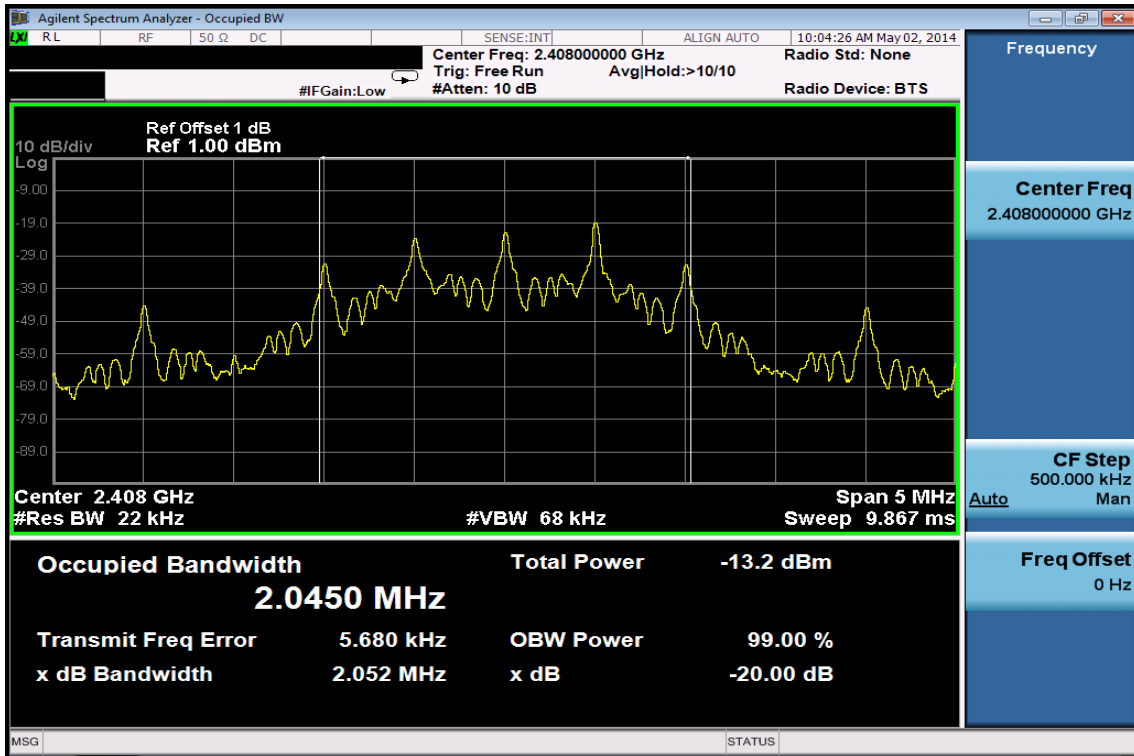
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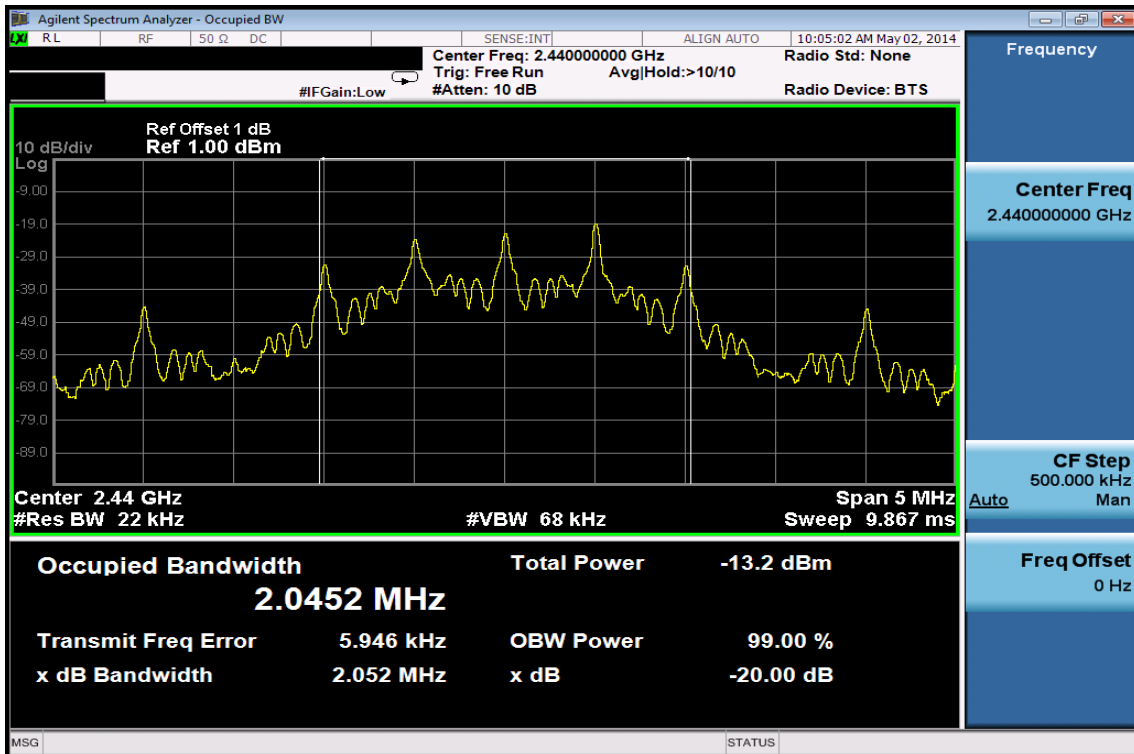
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99% Bandwidth Test Data CH-Low



99% Bandwidth Test Data CH-Mid



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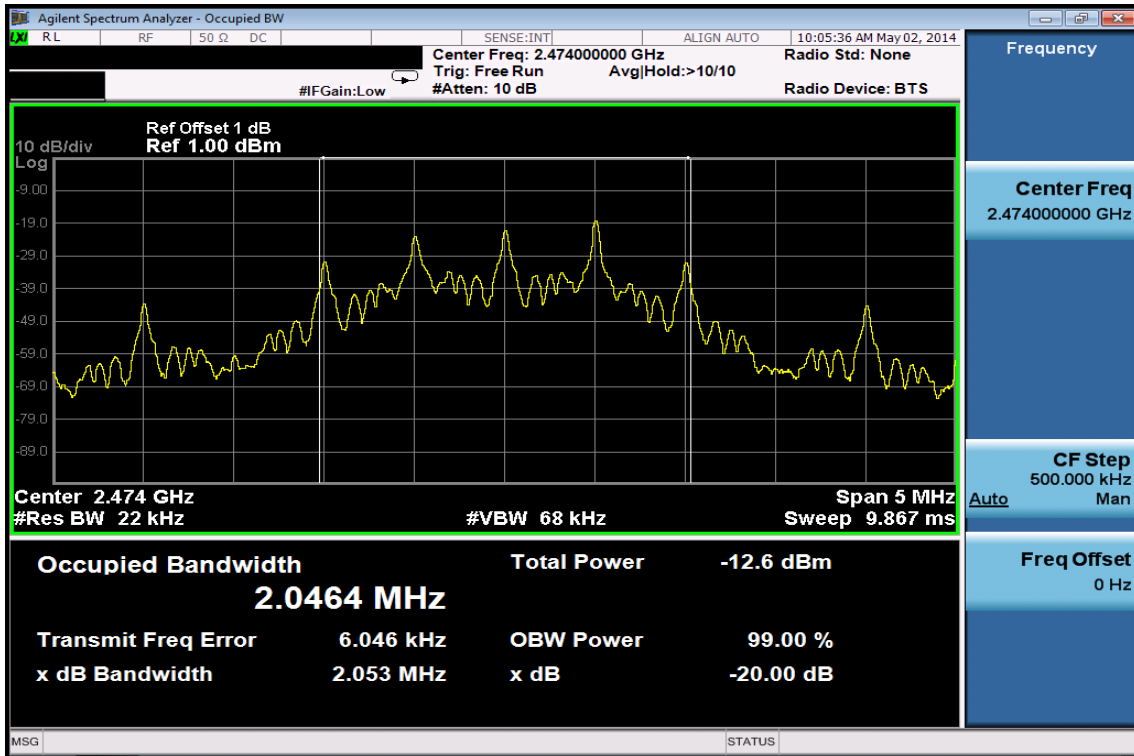
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99% Bandwidth Test Data CH-High



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