

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART E REQUIREMENT

OF

Product Name: PeopleNet Connected Tablet

Brand Name: PeopleNet

Model No.: MS5

Model Difference: N/A

FCC ID: NKS-MS5N2

Report No.: E2/2015/10036-03

Issue Date: Aug. 22, 2018

FCC Rule Part: §15.407
PEOPLENET

Prepared for: 4400 Baker Road, Minnetonka, MN 55343,
USA

Prepared by: SGS Taiwan Ltd.
Electronics & Communication Laboratory
No.2, Keji 1st Rd., Guishan District,
Taoyuan City, Taiwan 333



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f (886-2) 2298-0488

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VERIFICATION OF COMPLIANCE

Applicant: PEOPLENET
4400 Baker Road, Minnetonka, MN 55343, USA

Product Name: PeopleNet Connected Tablet

Brand Name: PeopleNet

Model No.: MS5

Model Difference: N/A

FCC ID: NKS-MS5N2

File Number: E2/2015/10036-03

Date of test: Jan. 30, 2015 ~ Mar. 11, 2015

Date of EUT Received: Jan. 30, 2015

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 C63.4:2014 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 15.407.

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

Test By:

Vito Pei

Date:

Aug. 22, 2018

Vito Pei / Engineer

Prepared By:

Yuri Tsai

Date:

Aug. 22, 2018

Yuri Tsai / Clerk

Approved By:

Jim Chang

Date:

Aug. 22, 2018

Jim Chang / Manager

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Revision History

| Report Number | Revision | Description | Issue Date |
|------------------|----------|-------------------------------|---------------|
| E2/2015/10036-01 | Rev.00 | Initial creation of document | Jan. 04, 2017 |
| E2/2015/10036-02 | Rev.01 | Change Tablet Docking Station | Jul. 30, 2018 |
| E2/2015/10036-03 | Rev.02 | Change of NFC Chip | Aug. 22, 2018 |
| | | | |

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1 GENERAL INFORMATION

1.1 Product Description

General:

| | | |
|-------------------------|--|-------------------------------------|
| Product Name: | PeopleNet Connected Tablet | |
| Brand Name: | PeopleNet | |
| Model No.: | MS5 | |
| Model Difference: | N/A | |
| Hardware Version: | N/A | |
| Software Version: | N/A | |
| Tablet Docking Station: | Model No.: MS-57603, Supplier: MSI | |
| Power Cable | P/N: L016-0576, Supplier: ELECTRI-CORD MFG.CO. | |
| Power Supply: | 7.4Vdc from LITHIUM-ION rechargeable battery or 12/24Vdc from DC Car battery | |
| | Battery: | Model No.: MS5760 , Supplier: Getac |

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WLAN 5GHz:

| Wi-Fi | Frequency Range | Channels | Rated Power (Avg.) | Modulation Technology |
|-------|-------------------|----------|--------------------|-----------------------|
| 11a | 5150~5250 | 4 | 13.86dBm (Avg.) | OFDM |
| | 5250~5350 | 4 | 13.97dBm (Avg.) | |
| | 5470~5725 | 8 | 13.97dBm (Avg.) | |
| | 5725-5850 | 5 | 13.97dBm (Avg.) | |
| 11n | HT20 5150~5250 | 4 | 12.97dBm (Avg.) | OFDM |
| | HT20 5250~5350 | 4 | 12.83dBm (Avg.) | |
| | HT20 5470~5725 | 8 | 12.97dBm (Avg.) | |
| | HT20 5725-5850 | 5 | 12.96dBm (Avg.) | |

| | |
|---------------------|---|
| Antenna Designation | PIFA Antenna: 5GHz Gain: 2.96dBi (5150MHz-5250MHz) 5GHz Gain: 2.96dBi (5250MHz-5350MHz) 5GHz Gain: 2.91dBi (5470MHz-5725MHz) 5GHz Gain: 2.11dBi (5725MHz-5850MHz) |
| Modulation type | 64QAM, 16QAM, QPSK, BPSK for OFDM |
| Transition Rate: | 802.11 a: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 65.0Mbps |

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1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: NKS-MS5N2** filing to comply with Section 15.407 of the FCC Part 15, Subpart E Rules. The composite system (digital device) is compliance with Subpart B is authorized under a DoC procedure.

1.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4:2014 & ANSI C63.10:2013 & 789033 D02 published on 06, 06, 2014 General UNII Test Procedure New Rules v01. Radiated testing was performed at an antenna to EUT distance 3 meters.

Tested in accordance with Jun. 2014 KDB789033 D02 for compliance to FCC 47CFR 15.407 requirements.

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 District, Taoyuan City, Taiwan 333 which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2014 & ANSI C63.10:2013. FCC Registration Number: 628985. Canada Registration Number: 4620A-4.

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 County, Taiwan, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 & 10 meters) and FCC Registration Number: 735305 / TW0002

1.5 Special Accessories

There are no special accessories used while test was conducted.

1.6 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 a placed on as turn table which is 0.8 m above ground plane. According to the general criterion in Section 7.1 of ANSI C63.4:2014 & 6.2 ANSI 63.10:2013. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz, and the measurement procedure 7.3 in ANSI 63.4:2014 & 6.2.2, and 6.2.3 in ANSI 63.10:2013 is followed to carry out the test. The CISPR Quasi-Peak and Average detector mode is employed according to §15.107

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 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 according to the requirements in Section 8 and 13 and of ANSI C63.4:2014, & Section 6.3, 6.4, 6.5, and 6.6 of ANSI 63.10:2013.

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2.4 Configuration of Tested System

Fig. 2-1 Radiated Emission & Conduction Emission Configuration

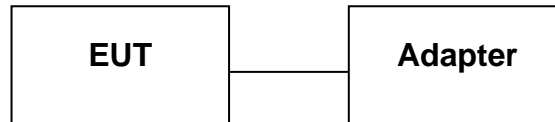


Fig. 2-2 Conducted (Antenna Port) Configuration

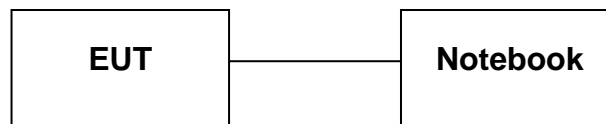


Table 2-1 Equipment Used in Tested System

| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. | Data Cable | Power Cord |
|------|--------------------|-----------|----------------|------------|------------|------------|
| 1. | WLAN Test Software | N/A | N/A | N/A | N/A | N/A |
| 2. | Notebook | Lenovo | L430 | R9-YYG88 | N/A | Unshielded |

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3 SUMMARY OF TEST RESULT

| FCC Rules | Description Of Test | Result |
|-------------------------------|--|-----------|
| §15.207 | AC Power Line Conducted Emission | Compliant |
| §15.407(a) (1) (2) | 26 dB & 6dB Emission Bandwidth | Compliant |
| §15.407(a) (1) (2) | The Maximum Output Power Measurement | Compliant |
| §15.407(a) (5) | Peak Power Spectral Density Measurement | Compliant |
| §15.407(b) (1) (2) (3) | Undesirable Emission – Conducted Measurement | Compliant |
| §15.407(b) (1) (2) (3)(6) (7) | Undesirable Emission – Radiated Measurement | Compliant |
| §15.407(c) | Transmission in case of Absence of Information | Compliant |
| §15.407(g) | Frequency Stability | Compliant |
| §15.203 | Antenna Requirement | Compliant |

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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 mode is programmed.

a mode:

5150MHz-5250MHz: Channel lowest(5180MHz) 、Mid(5220MHz) and Highest(5240MHz).

5250MHz-5350MHz: Channel lowest(5260MHz) 、Mid(5300MHz) and Highest(5320MHz).

5470MHz-5725MHz: Channel lowest(5500MHz) 、Mid(5580MHz) and Highest(5700MHz)

5725MHz-5850MHz: Channel lowest(5745MHz) 、Mid(5785MHz) and Highest(5850MHz)

and with 6Mbps data rate are chosen for full testing.

n HT 20 mode:

5150MHz-5250MHz: Channel lowest(5180MHz) 、Mid(5220MHz) and Highest(5240MHz).

5250MHz-5350MHz: Channel lowest(5260MHz) 、Mid(5300MHz) and Highest(5320MHz).

5470MHz-5725MHz: Channel lowest(5500MHz) 、Mid(5580MHz) and Highest(5700MHz)

5725MHz-5850MHz: Channel lowest(5745MHz) 、Mid(5785MHz) and Highest(5850MHz)

with 6.5Mbps data rate are chosen for full testing

The worst case is determined by the output power that generates the highest emission. As examined in the section of output power measurement, the section 8.5, the lowest data rate at a/n_HT20 resulted the highest level of fundamental emission, and therefore, the lowest data rate is chosen as the worst-case to conduct the remaining of other mandatory test cases.

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for 802.11a/n WLAN Transmitter for channel Low, Mid and High, the worst case E2 position was reported.

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Duty Cycle Analysis:

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode (a/n_ht20) shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle. All duty cycle is pre-scanned, resulted as obtained below, and showed only the most representative ones

Tabular results as indicates below entails the results of duty factor for all supported modes.

Formula:

$$\text{Duty Cycle} = T_{on} / (T_{on} + T_{off})$$

Test Procedure:

Set span = 0, RBW = 8MHz, the largest as possible, VBW = 8MHz, Detector = Peak, and RBW, and VBW = the highest RBW the spectrum is capable of, where zero-span is permissible, that > 50/T, where T is ~ 4.3ms

Duty Cycle:

| | Antenna | Duty Cycle | Duty Factor (dBm) |
|------------|---------|------------|-------------------|
| 802.11a | Single | 0.986 | 0.06 |
| 802.11n_20 | Single | 0.983 | 0.07 |

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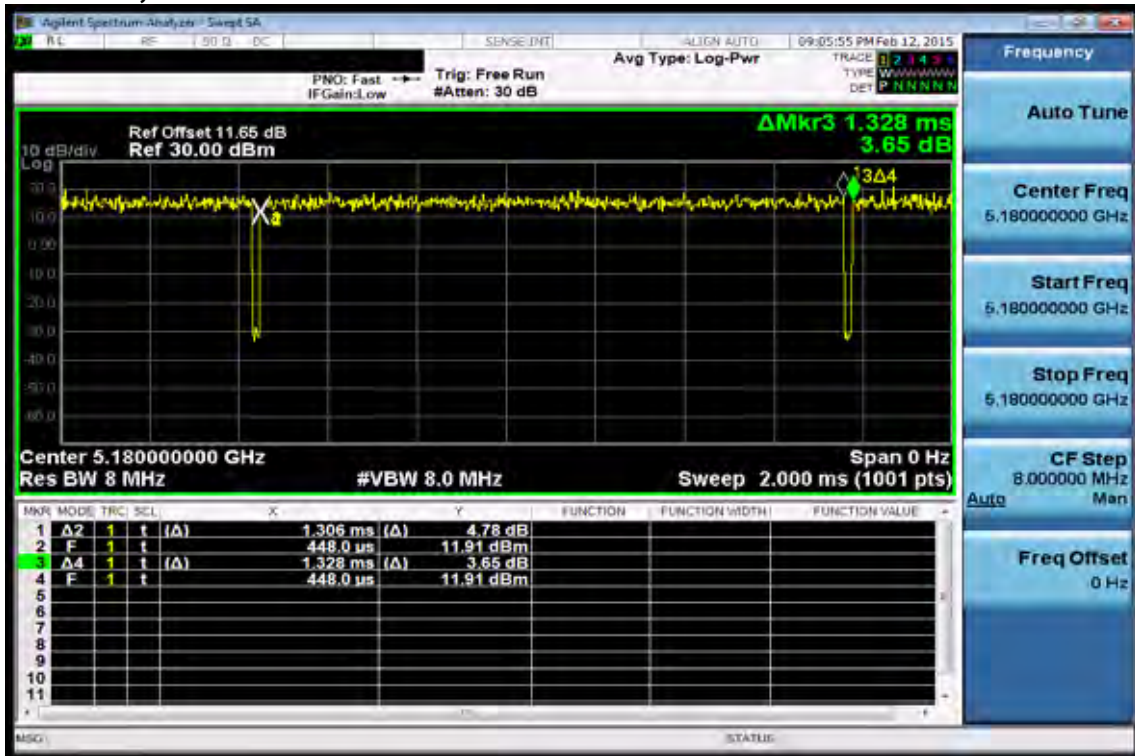
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DUTY CYCLE OF TEST SIGNAL 802.11a, CH Low 5180 MHz



802.11n HT20, CH Low 5180 MHz



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5 MEASUREMENT UNCERTAINTY

| Test Items | Uncertainty |
|--|--------------------------|
| AC Power Line Conducted Emission | +/- 2.586 dB |
| 26 dB and 99% Emission Bandwidth | +/- 123.36 Hz |
| The Maximum Output Power Measurement | +/- 1.42 dB |
| Peak Power Spectral Density Measurement | +/- 1.55 dB |
| Peak Excursion Measurement | +/- 1.55 dB |
| Undesirable Emission – Conducted Measurement | +/- 1.55 dB |
| Transmission in case of Absence of Information | +/- 1.55 dB |
| Frequency Stability | +/- 123.36 Hz |
| TPC and DFS Measurement | +/- 123.36 Hz |
| 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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6 CONDUCTED EMISSION TEST

6.1 Standard Applicable

According to §15.207 frequency range within 150 KHz to 30 MHz 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 Receiver | R&S | ESCI 3 | 101311 | 06/20/2014 | 06/19/2015 |
| Coaxial Cables | N/A | N30N30-1042-150 cm | N/A | 01/06/2015 | 01/07/2016 |
| LISN | Schwarz- beck | NSLK 8127 | 8127-648 | 06/10/2014 | 06/09/2015 |
| LISN | Rolf-Heine | NNB-2/16Z | 99012 | 03/26/2014 | 03/25/2015 |
| 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 C63.4:2014.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The LISN was connected with 120Vac/60Hz power source.

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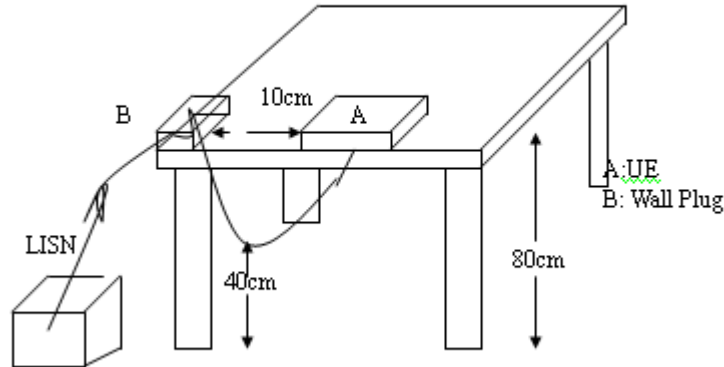
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6.4 Test SET-UP (Block Diagram of Configuration)



6.5 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all phases of power being supplied by given UE are completed

6.6 Measurement Result

Note: 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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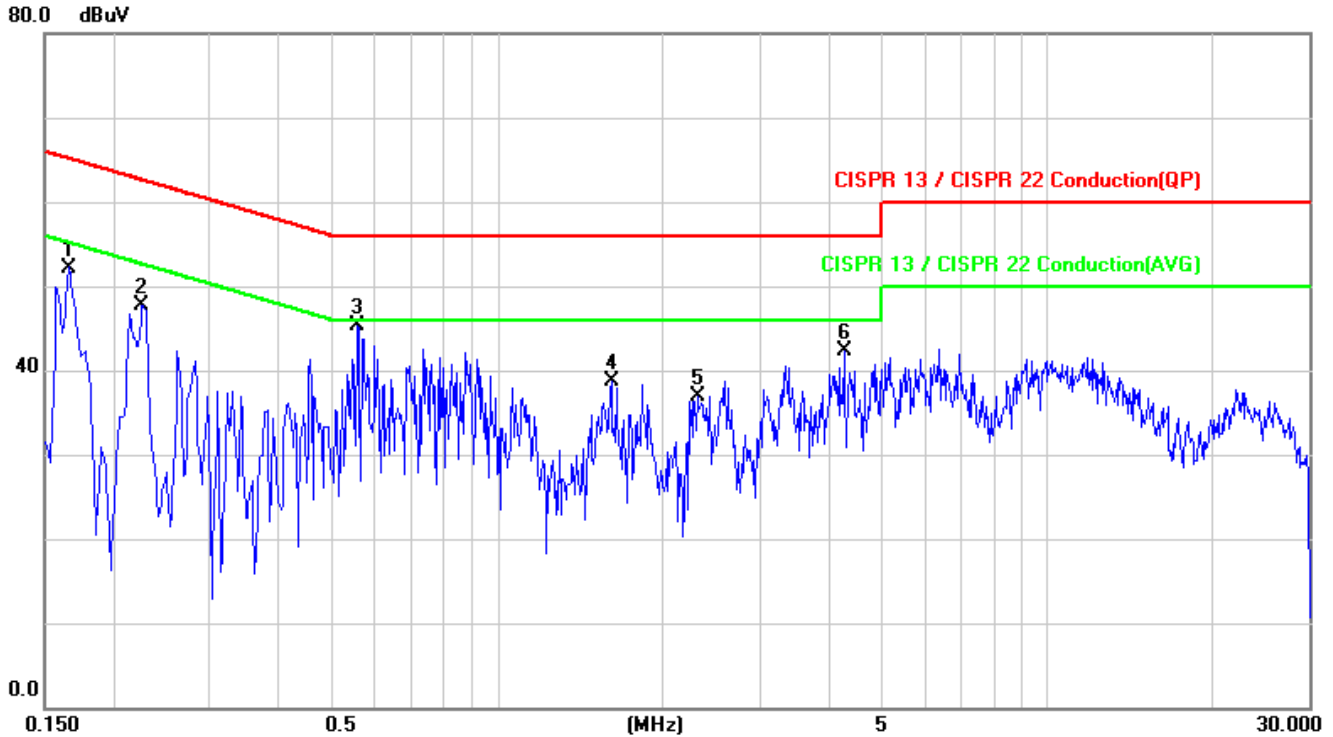
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AC POWER LINE CONDUCTED EMISSION TEST DATA

| | | | | | |
|-----------------|----------------|-----------|------|------------|---------------|
| Operation Mode: | Operation Mode | | | Test Date: | Feb. 26, 2015 |
| Temperature: | 23 | Humidity: | 58 % | Test By: | Vito |
| Probe: | L1 | | | | |



| No. | Mk. | Freq. (MHz) | Reading dBuV | Factor (dB) | Measurement (dBuV) | Limit (dBuV) | Over (dB) | Detector | Comment |
|-----|-----|----------------|-----------------|----------------|-----------------------|-----------------|--------------|----------|---------|
| 1 | | 0.1660 | 52.15 | 0.05 | 52.20 | 65.16 | -12.96 | peak | |
| 2 | | 0.2260 | 47.72 | 0.05 | 47.77 | 62.60 | -14.83 | peak | |
| 3 | * | 0.5580 | 45.17 | 0.20 | 45.37 | 56.00 | -10.63 | peak | |
| 4 | | 1.6140 | 38.24 | 0.45 | 38.69 | 56.00 | -17.31 | peak | |
| 5 | | 2.3180 | 36.43 | 0.51 | 36.94 | 56.00 | -19.06 | peak | |
| 6 | | 4.2860 | 41.89 | 0.50 | 42.39 | 56.00 | -13.61 | peak | |

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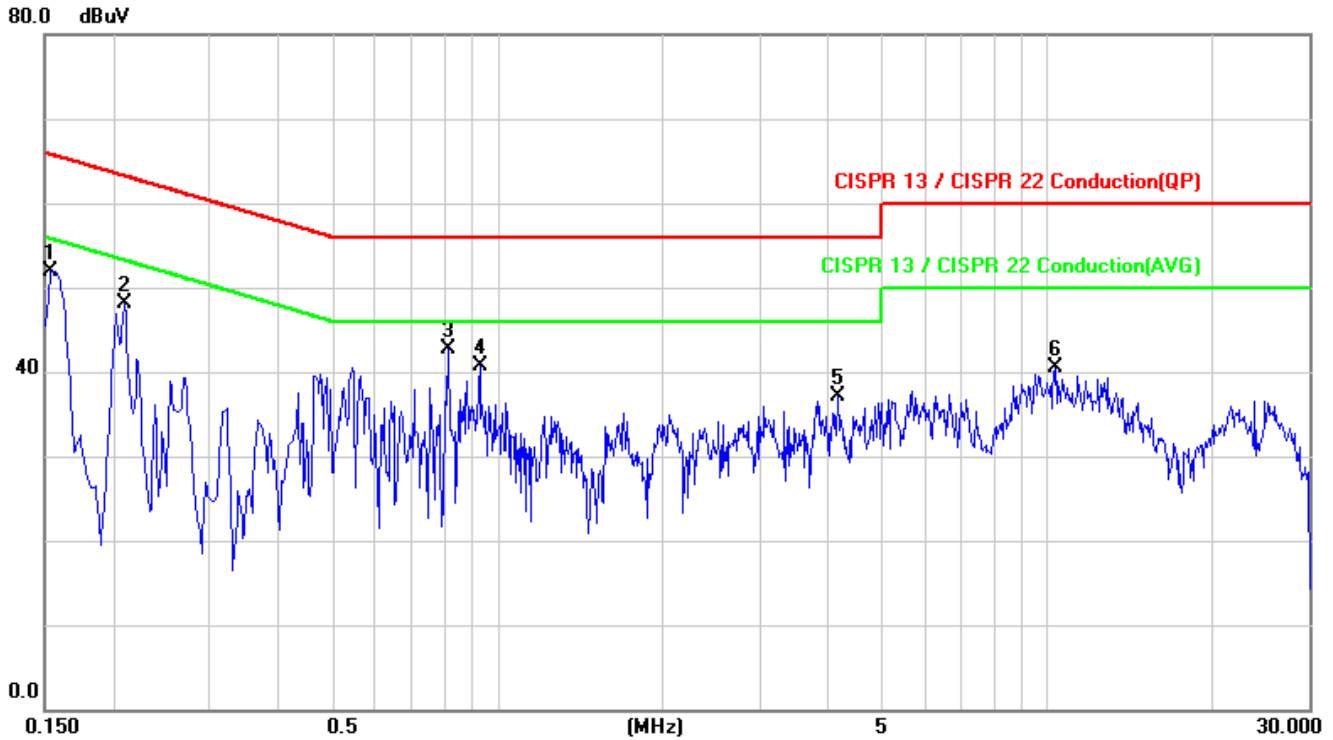
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| | | | | | |
|-----------------|----------------|-----------|------------|---------------|------|
| Operation Mode: | Operation Mode | | Test Date: | Feb. 26, 2015 | |
| Temperature: | 23 | Humidity: | 58 % | Test By: | Vito |
| Probe: | N | | | | |



| No. | Mk. | Freq. (MHz) | Reading dBuV | Factor (dB) | Measurement (dBuV) | Limit (dBuV) | Over (dB) | Detector | Comment |
|-----|-----|----------------|-----------------|----------------|-----------------------|-----------------|--------------|----------|---------|
| 1 | | 0.1540 | 51.84 | 0.05 | 51.89 | 65.78 | -13.89 | peak | |
| 2 | | 0.2100 | 48.04 | 0.04 | 48.08 | 63.21 | -15.13 | peak | |
| 3 | * | 0.8140 | 42.47 | 0.30 | 42.77 | 56.00 | -13.23 | peak | |
| 4 | | 0.9300 | 40.35 | 0.34 | 40.69 | 56.00 | -15.31 | peak | |
| 5 | | 4.1660 | 36.51 | 0.51 | 37.02 | 56.00 | -18.98 | peak | |
| 6 | | 10.3620 | 39.97 | 0.47 | 40.44 | 60.00 | -19.56 | peak | |

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7 26DB & 6DB EMISSION BANDWIDTH MEASUREMENT

7.1 Standard Applicable

According to §15.407(a). No Limit required.

And §15.407 (e) Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

7.2 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.
 - a. 26dB Band width Measurement: Set the spectrum analyzer as 1% of emission BW Sweep=auto, Detector = Peak, Trace Mode = Max Hold, Manually readjust RBW until the RBW/EBW ratio is 1% based on EBW as observed on the result of pre-sequence measurement.
 - b. Mark the peak frequency and -26dB (upper and lower) frequency.
4. Repeat the procedures as list above until all test default channels (low, middle, and high) are completed.
5. Minimum Emission Bandwidth for the band 5.725-5.850GHz
 - a. Set the spectrum analyzer as RBW = 100 kHz, VBW = 3*RBW, Span = 30M/50MHz, Detector=Peak, Sweep=auto
 - b. Mark the peak frequency and -6dB (upper and lower) frequency.

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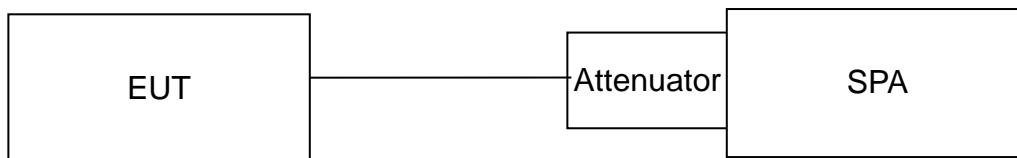
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7.3 Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|---------------|-----------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Power Meter | Anritsu | ML2495A | 1005007 | 12/20/2014 | 12/19/2015 |
| Power Sensor | Anritsu | MA2411B | 917032 | 12/20/2014 | 12/19/2015 |
| Spectrum Analyzer | Agilent | E4446A | MY51100003 | 05/19/2014 | 05/18/2015 |
| Spectrum Analyzer | Agilent | E4440A | MY45304525 | 03/08/2014 | 03/07/2015 |
| DC Block | Mini-Circuits | BLK-18-S+ | 1 | 01/02/2015 | 01/01/2016 |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA | N/A | 01/02/2015 | 01/01/2016 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 002 | 01/02/2015 | 01/01/2016 |
| Splitter | Agilent | 11636B | N/A | 01/02/2015 | 01/01/2016 |

Remark: Please note that the duration to conduct the test took place in the mean time when the calibration for several equipments is due, and therefore extra tables of equipment calibration is constructed to indicate the calibration work is still maintained.

7.4 Test Set-up:



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7.5 Measurement Result

26dB Bandwidth

802.11a, 5150~5250 MHz

| Frequency (MHz) | 26dB Bandwidth (B) (MHz) | 10 Log (B) (dB) |
|-----------------|--------------------------|-----------------|
| 5180 | 23.170 | 13.65 |
| 5220 | 21.940 | 13.41 |
| 5240 | 20.920 | 13.21 |

802.11a, 5250~5350 MHz

| Frequency (MHz) | 26dB Bandwidth (B) (MHz) | 10 Log (B) (dB) |
|-----------------|--------------------------|-----------------|
| 5260 | 21.410 | 13.31 |
| 5300 | 20.650 | 13.15 |
| 5320 | 21.360 | 13.30 |

802.11a, 5470~5725 MHz

| Frequency (MHz) | 26dB Bandwidth (B) (MHz) | 10 Log (B) (dB) |
|-----------------|--------------------------|-----------------|
| 5500 | 20.750 | 13.17 |
| 5580 | 21.580 | 13.34 |
| 5700 | 20.790 | 13.18 |

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802.11n HT20, 5150~5250 MHz MIMO-Main

| Frequency (MHz) | 26dB Bandwidth (B) (MHz) | 10 Log (B) (dB) |
|-----------------|--------------------------|-----------------|
| 5180 | 21.760 | 13.38 |
| 5220 | 21.580 | 13.34 |
| 5240 | 22.250 | 13.47 |

802.11n HT20, 5250~5350 MHz

| Frequency (MHz) | 26dB Bandwidth (B) (MHz) | 10 Log (B) (dB) |
|-----------------|--------------------------|-----------------|
| 5260 | 21.490 | 13.32 |
| 5300 | 21.390 | 13.30 |
| 5320 | 21.080 | 13.24 |

802.11n HT20, 5470~5725 MHz

| Frequency (MHz) | 26dB Bandwidth (B) (MHz) | 10 Log (B) (dB) |
|-----------------|--------------------------|-----------------|
| 5500 | 21.090 | 13.24 |
| 5580 | 20.860 | 13.19 |
| 5700 | 21.090 | 13.24 |

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6dB Bandwidth

802.11a, 5725~5850 MHz

| Frequency (MHz) | 6dB Bandwidth (B) (MHz) | 10 Log (B) (dB) |
|-----------------|-------------------------|-----------------|
| 5745 | 16.380 | 12.14 |
| 5785 | 16.420 | 12.15 |
| 5825 | 16.400 | 12.15 |

802.11n HT20, 5725~5850 MHz

| Frequency (MHz) | 6dB Bandwidth (B) (MHz) | 10 Log (B) (dB) |
|-----------------|-------------------------|-----------------|
| 5745 | 17.620 | 12.46 |
| 5785 | 17.640 | 12.46 |
| 5825 | 17.630 | 12.46 |

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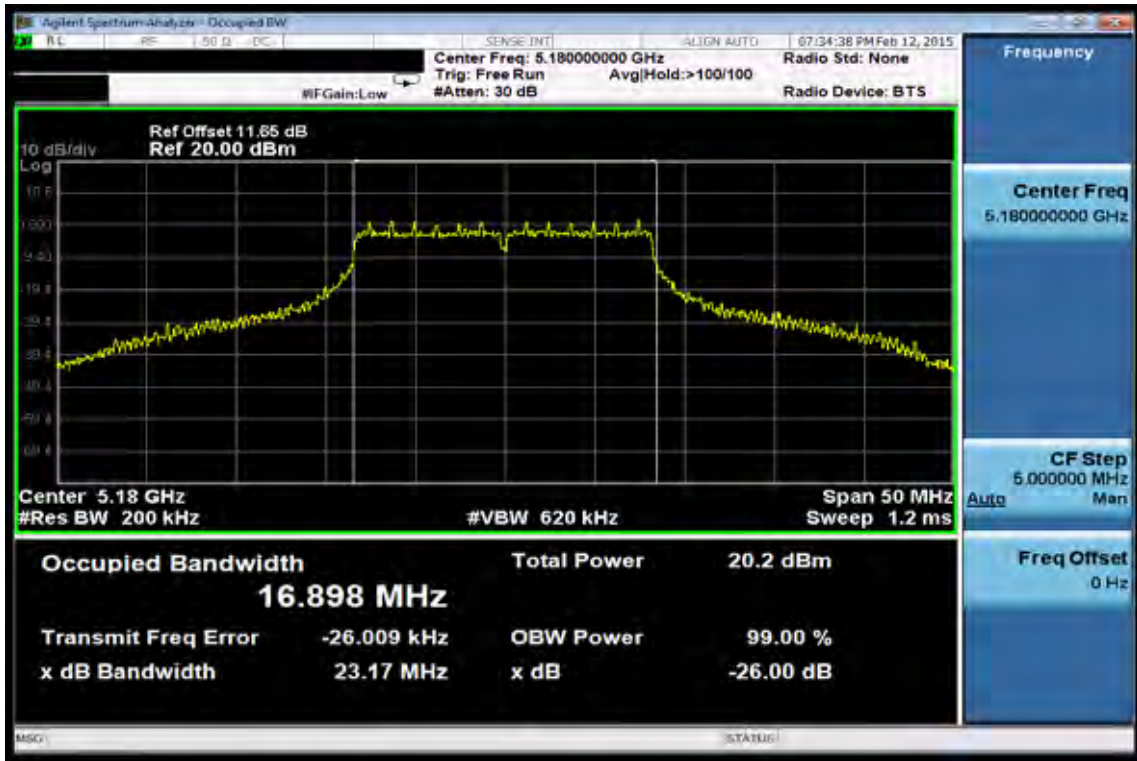
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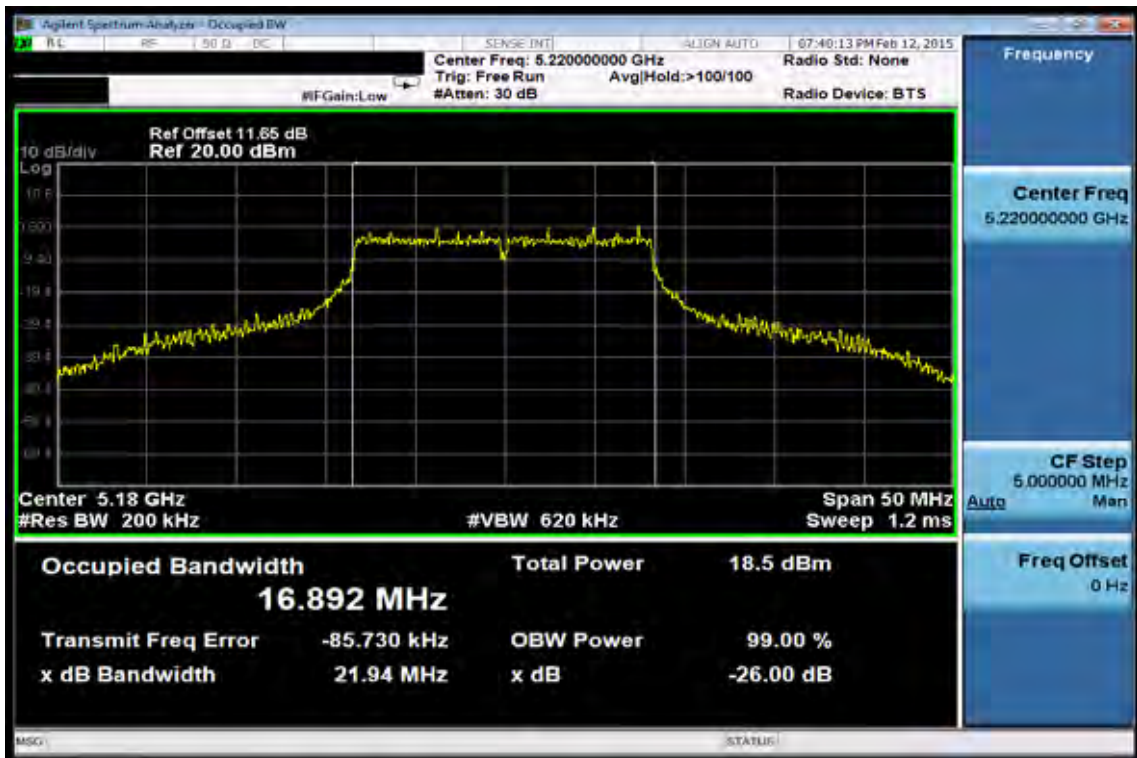
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802.11a, 5150~5250 MHz
26dB Band Width Test Data CH-Low (5180MHz)



26dB Band Width Test Data CH-Mid (5220MHz)



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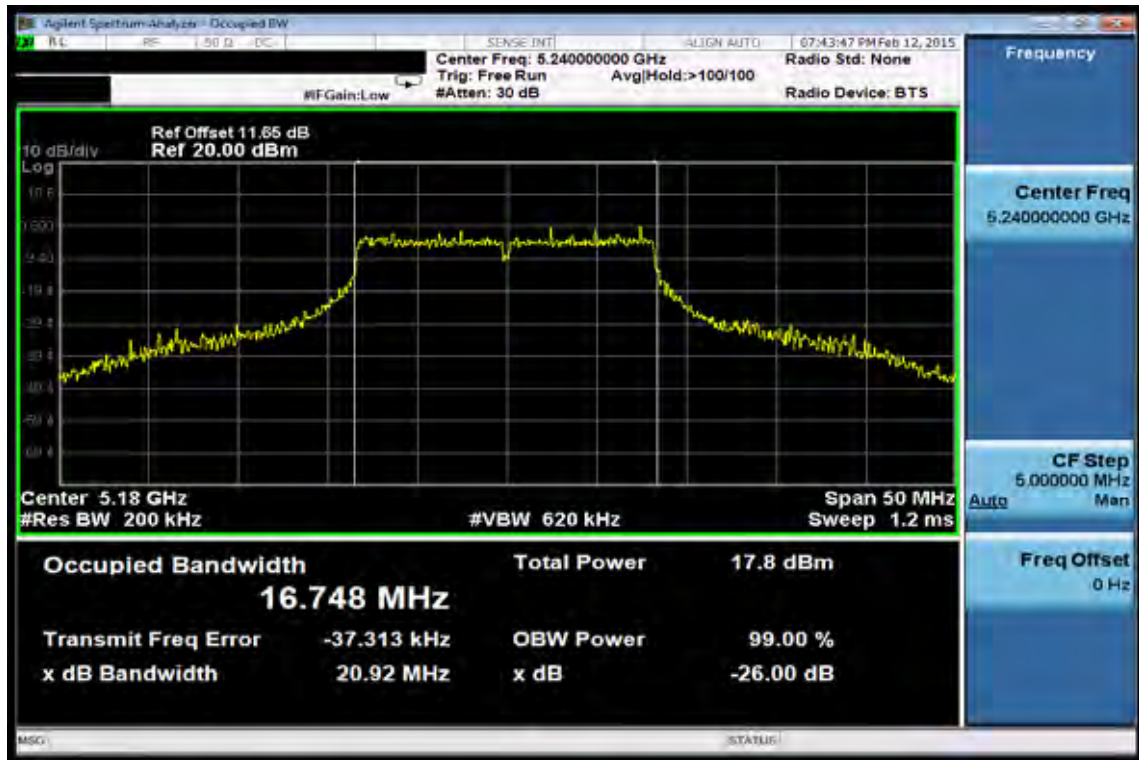
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26dB Band Width Test Data CH-High (5240MHz)



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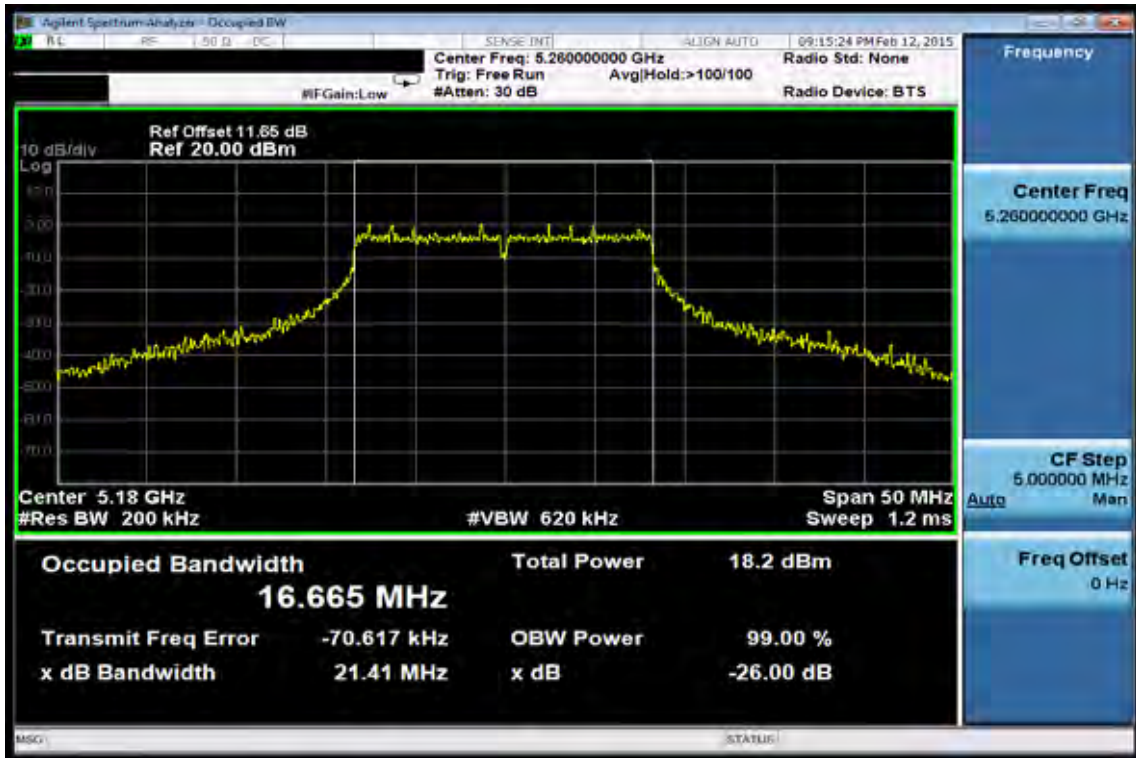
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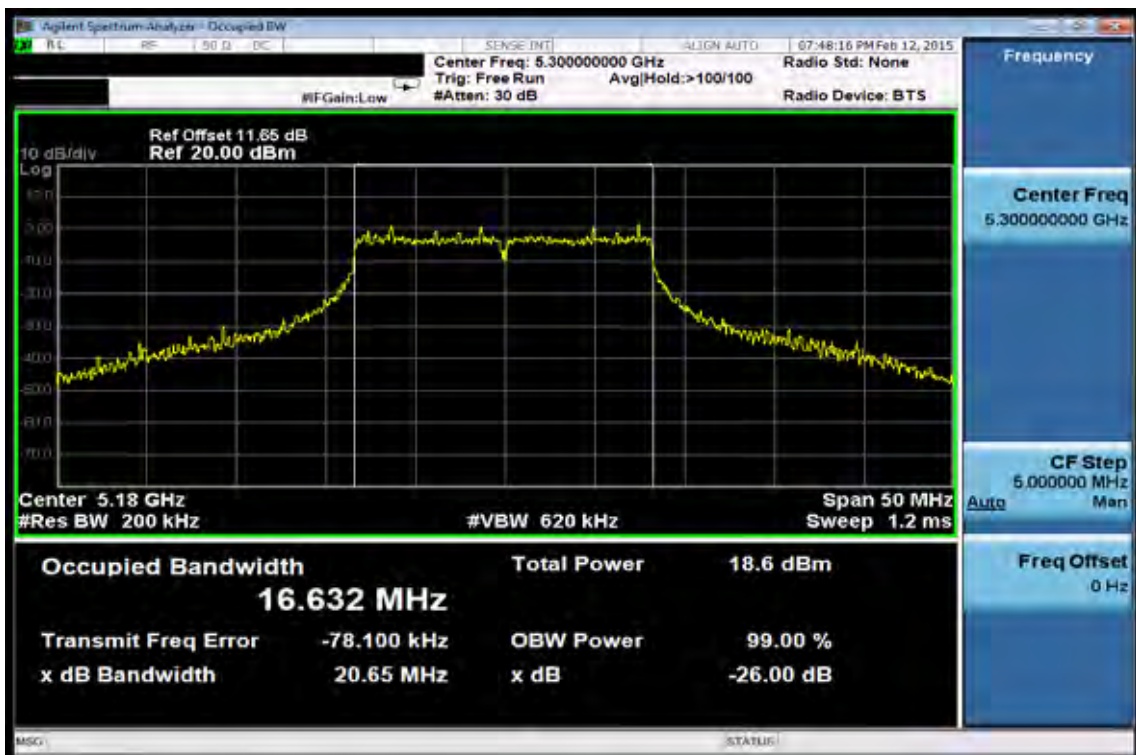
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802.11a, 5250~5350 MHz
26dB Band Width Test Data CH-Low (5260MHz)



26dB Band Width Test Data CH-Mid (5300MHz)



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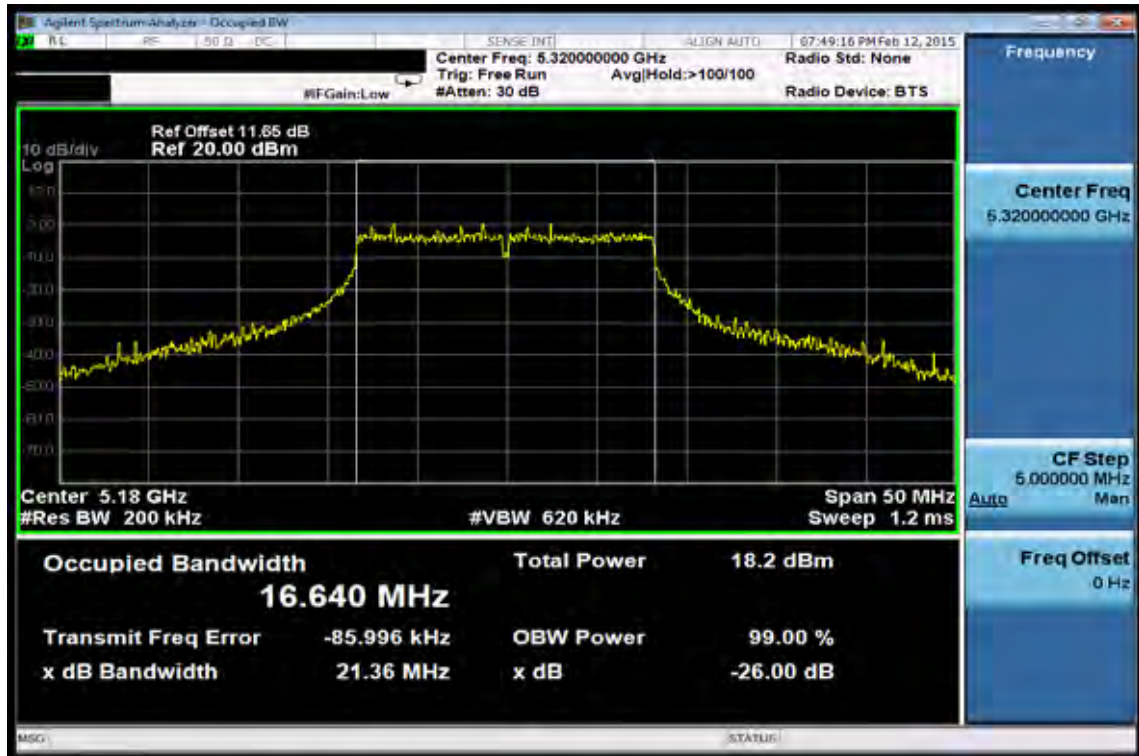
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26dB Band Width Test Data CH-High (5320MHz)



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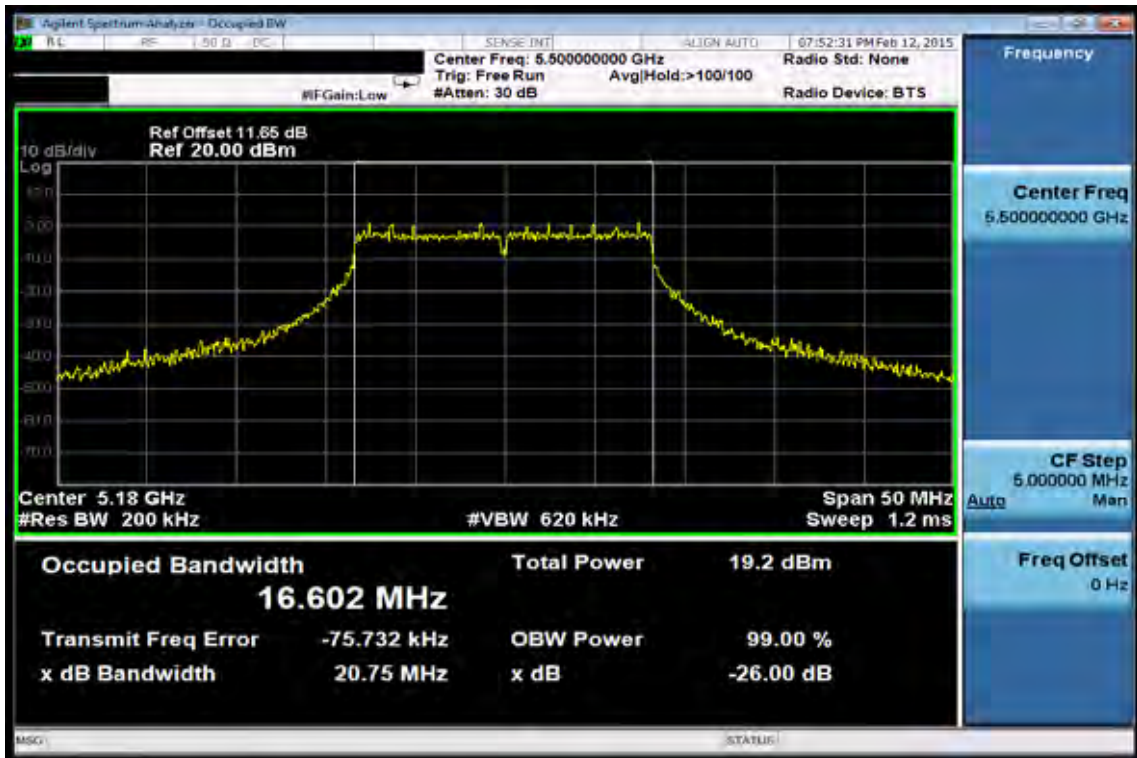
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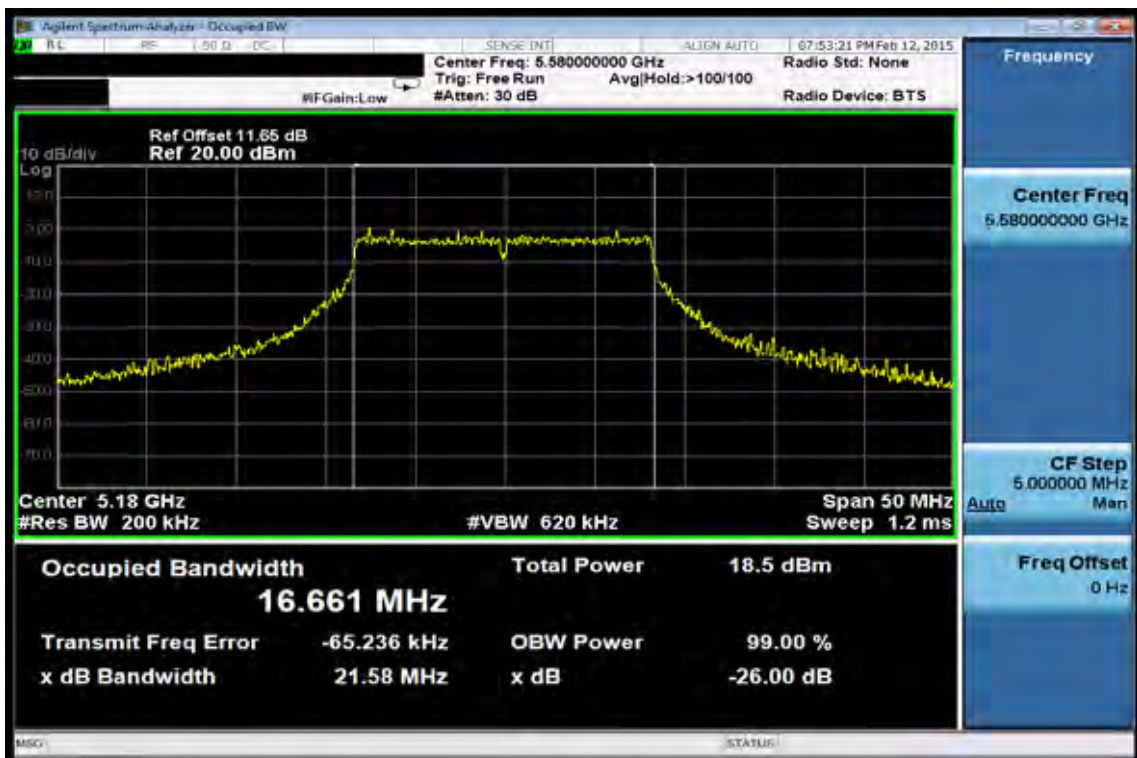
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802.11a, 5470~5725 MHz
26dB Band Width Test Data CH-Low (5500MHz)



26dB Band Width Test Data CH-Mid (5580MHz)



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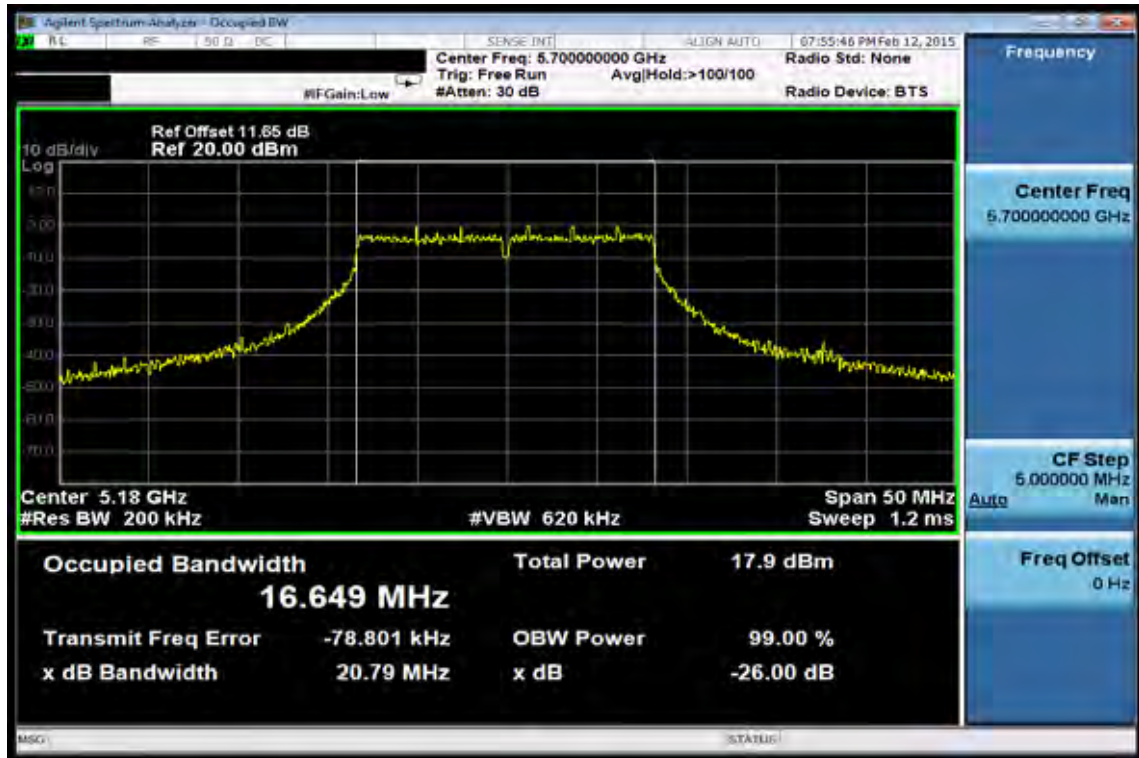
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26dB Band Width Test Data CH-High (5700MHz)



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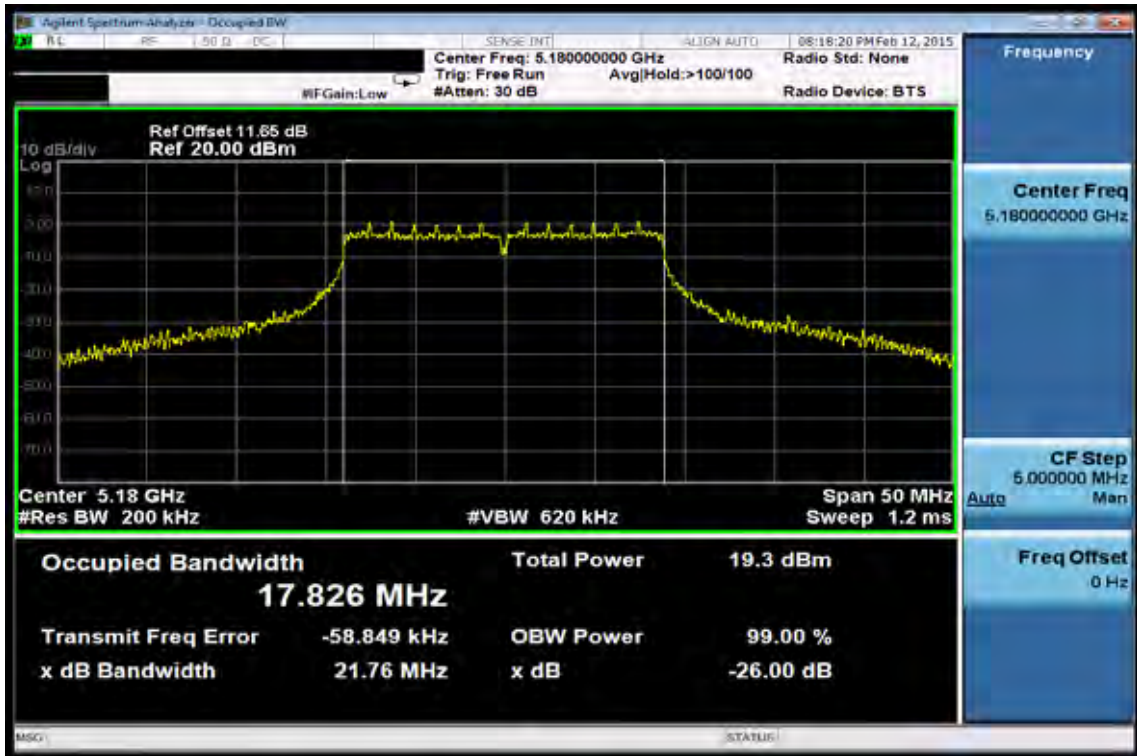
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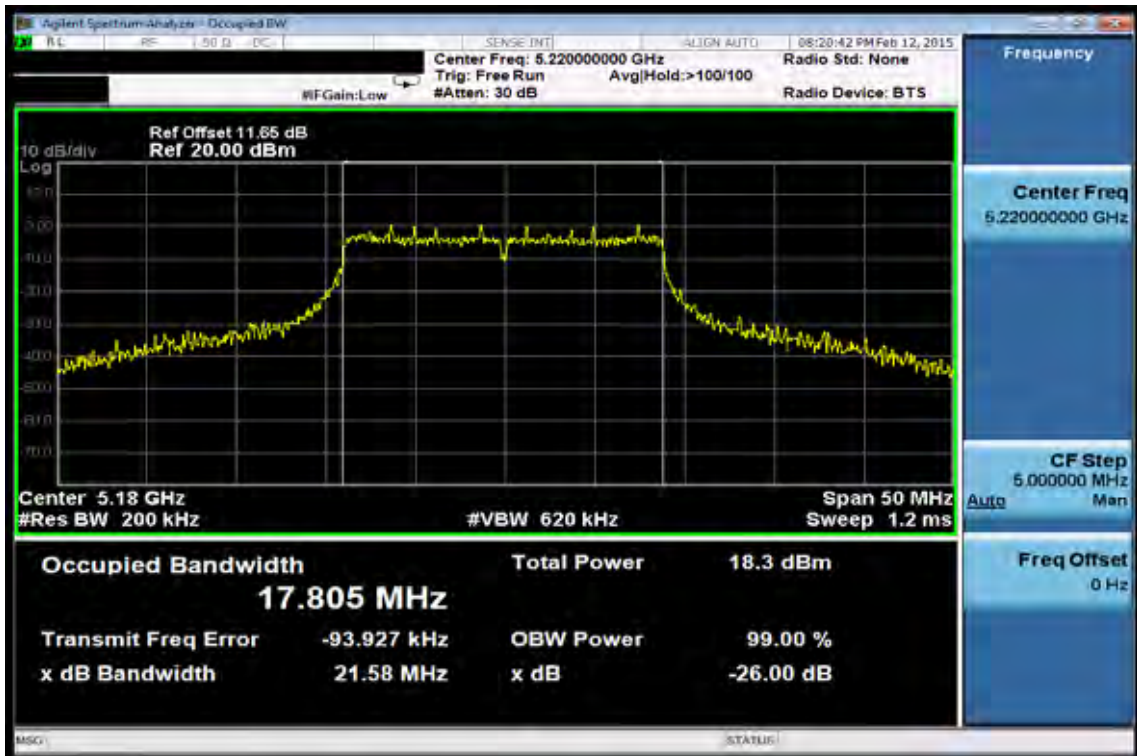
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**802.11n HT20, 5150~5250 MHz
26dB Band Width Test Data CH-Low (5180 MHz)**



26dB Band Width Test Data CH-Mid (5220 MHz)



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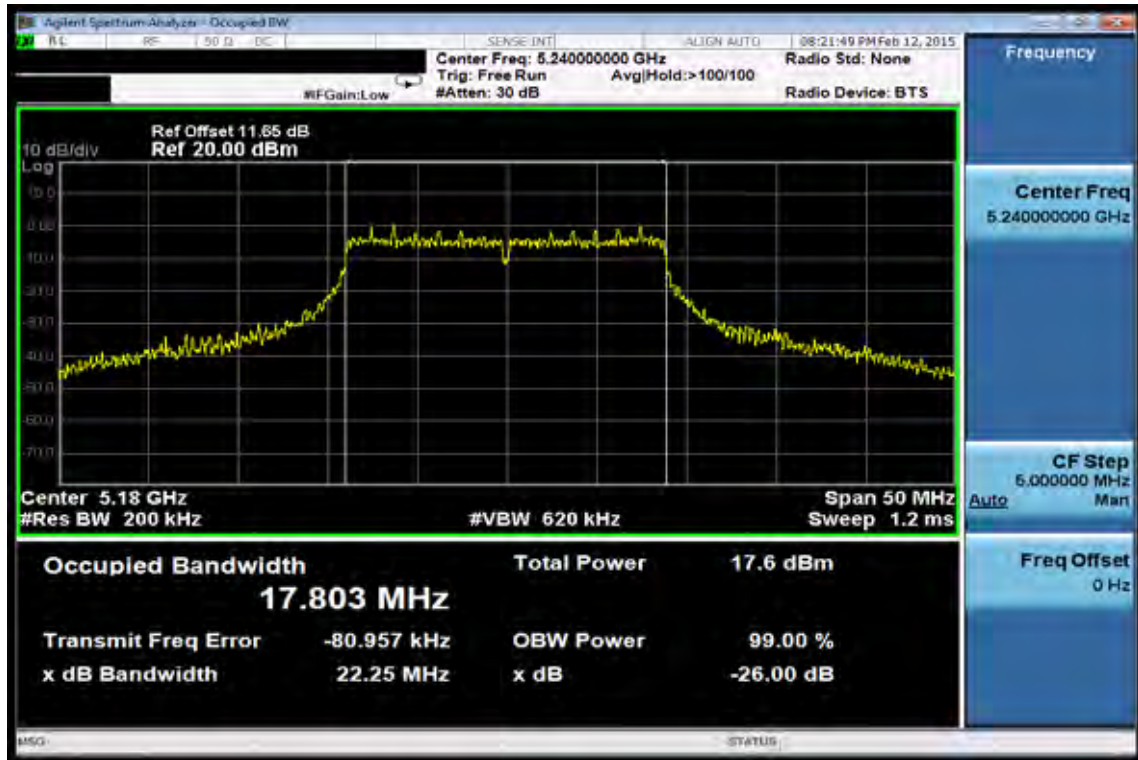
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26dB Band Width Test Data CH-High (5240 MHz)



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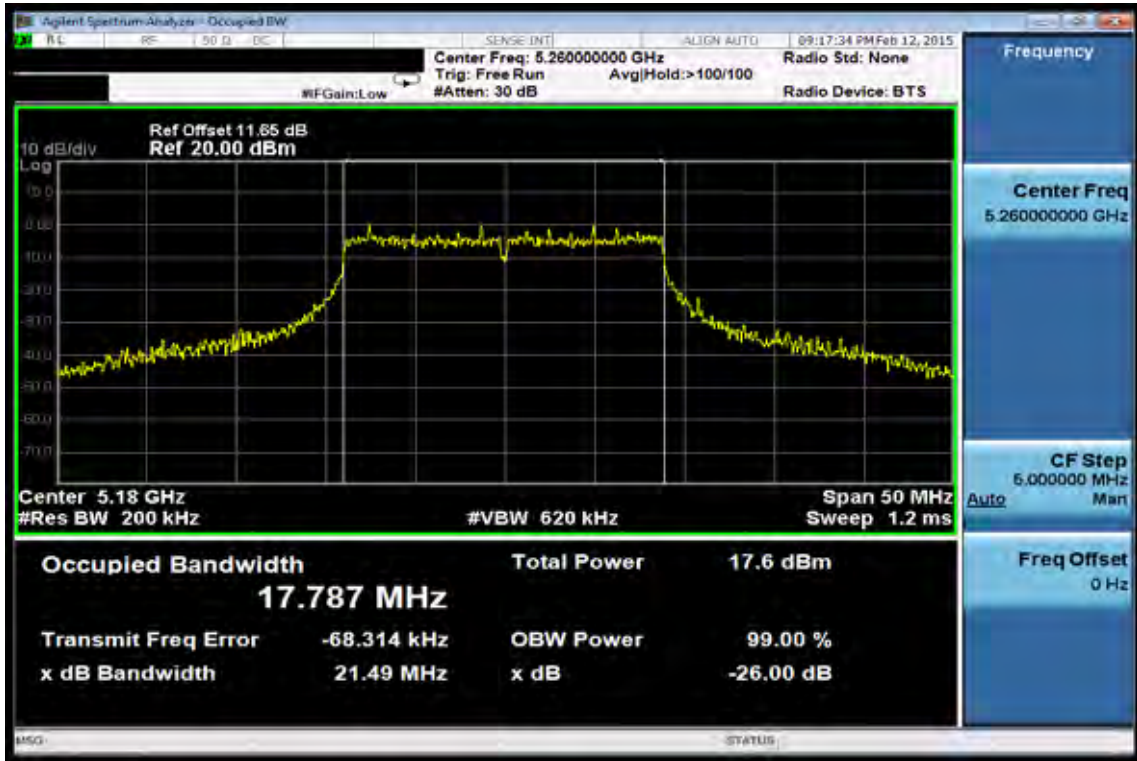
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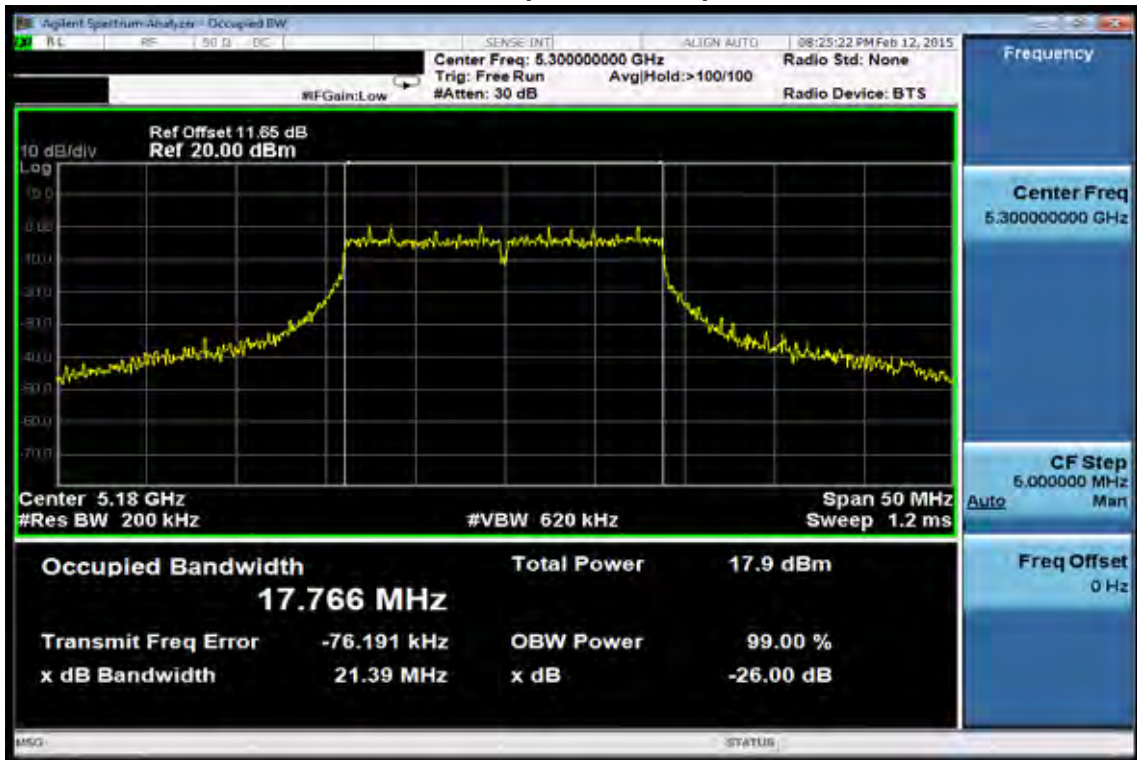
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802.11n HT20, 5250~5350 MHz 26dB Band Width Test Data CH-Low (5260 MHz)



26dB Band Width Test Data CH-Mid (5300 MHz)



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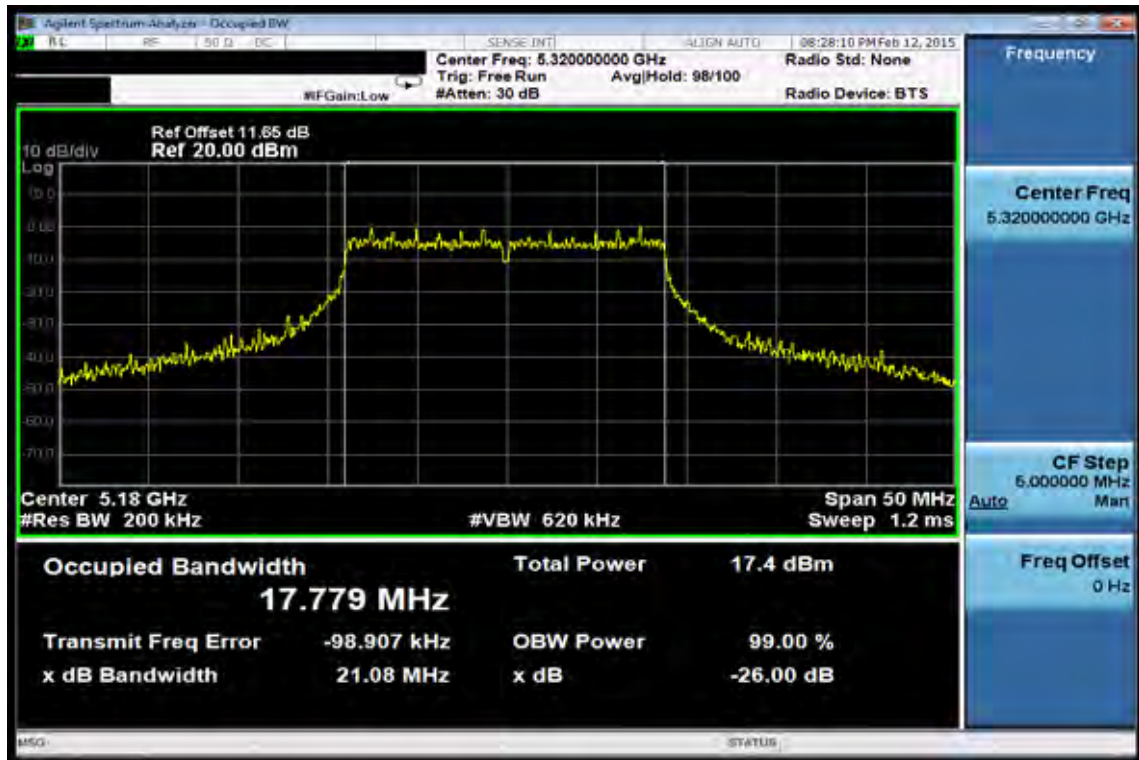
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26dB Band Width Test Data CH-High (5320 MHz)



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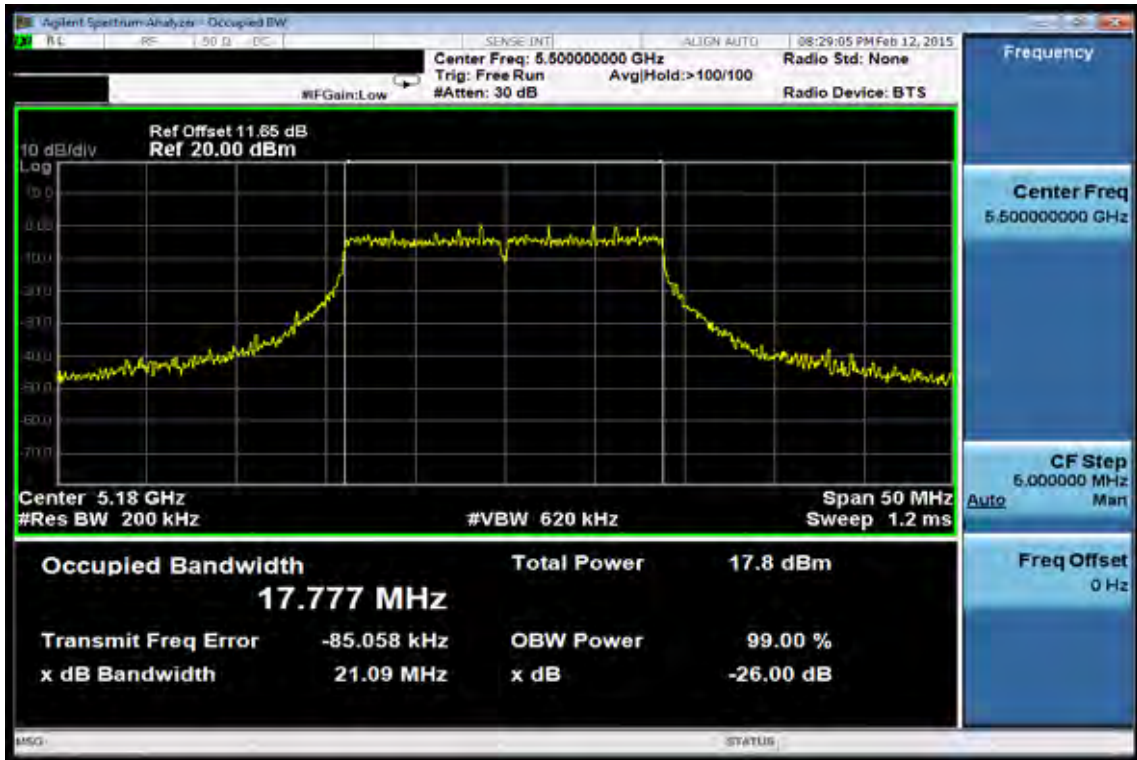
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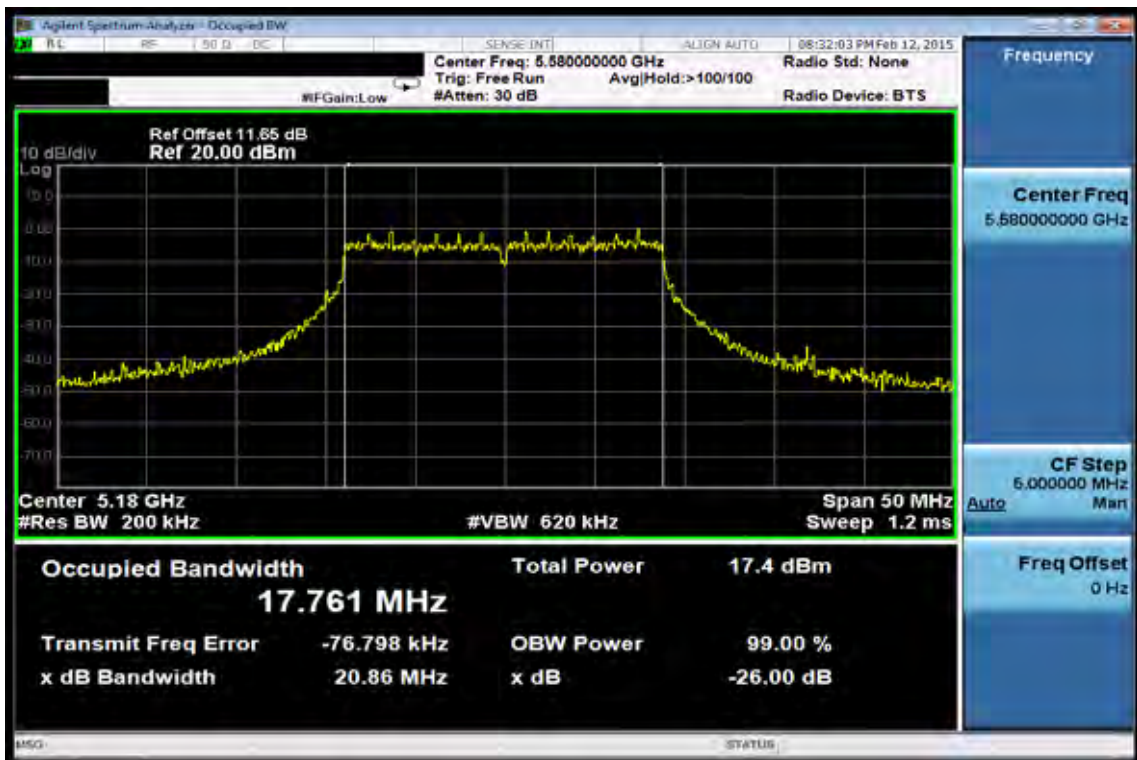
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802.11n HT20, 5470~5725 MHz
26dB Band Width Test Data CH-Low (5500 MHz)



26dB Band Width Test Data CH-Mid (5580 MHz)



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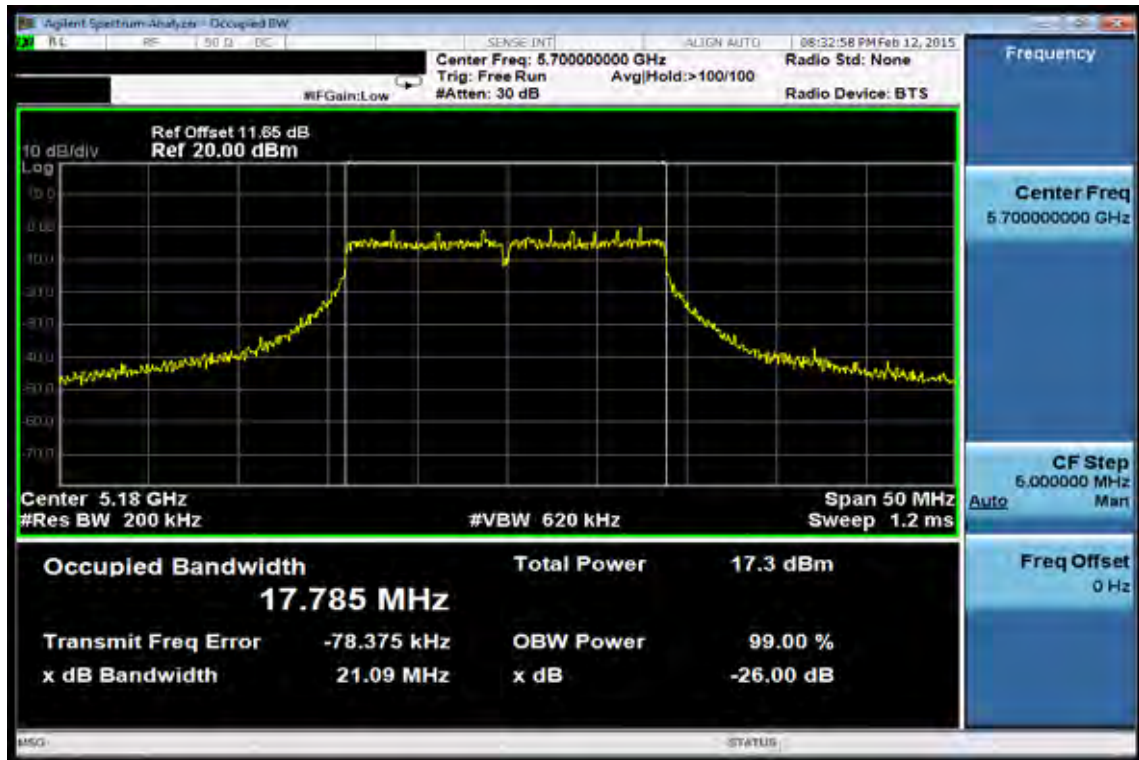
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26dB Band Width Test Data CH-High (5700 MHz)



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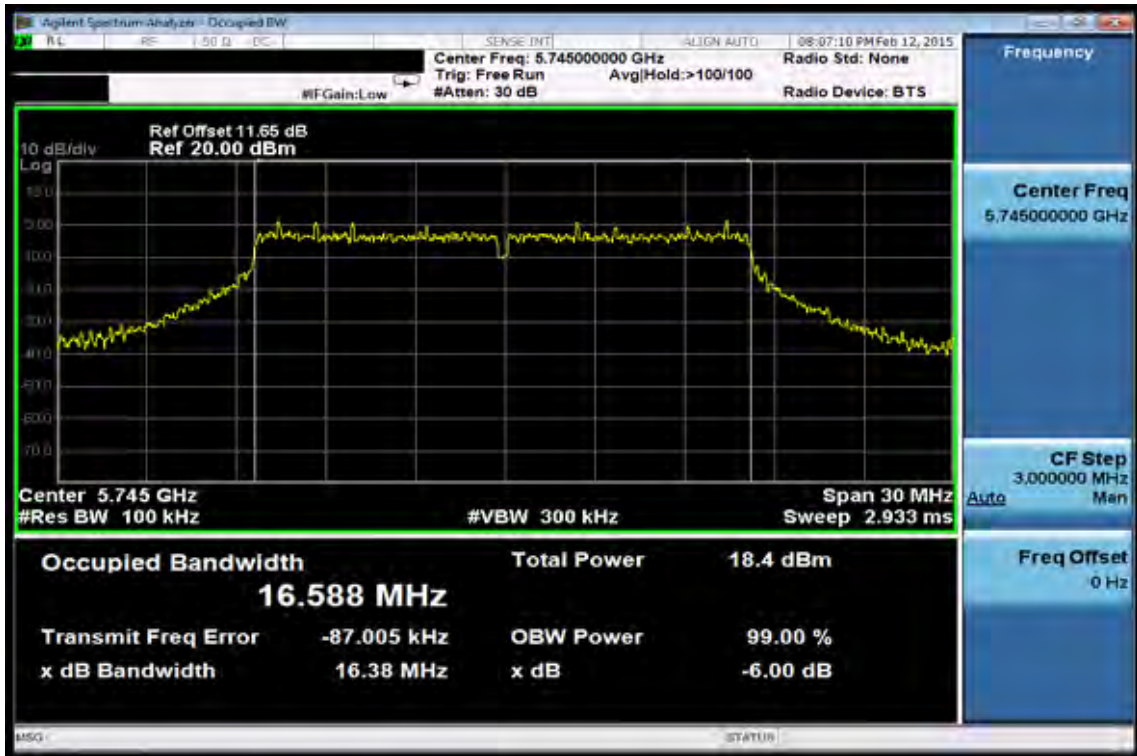
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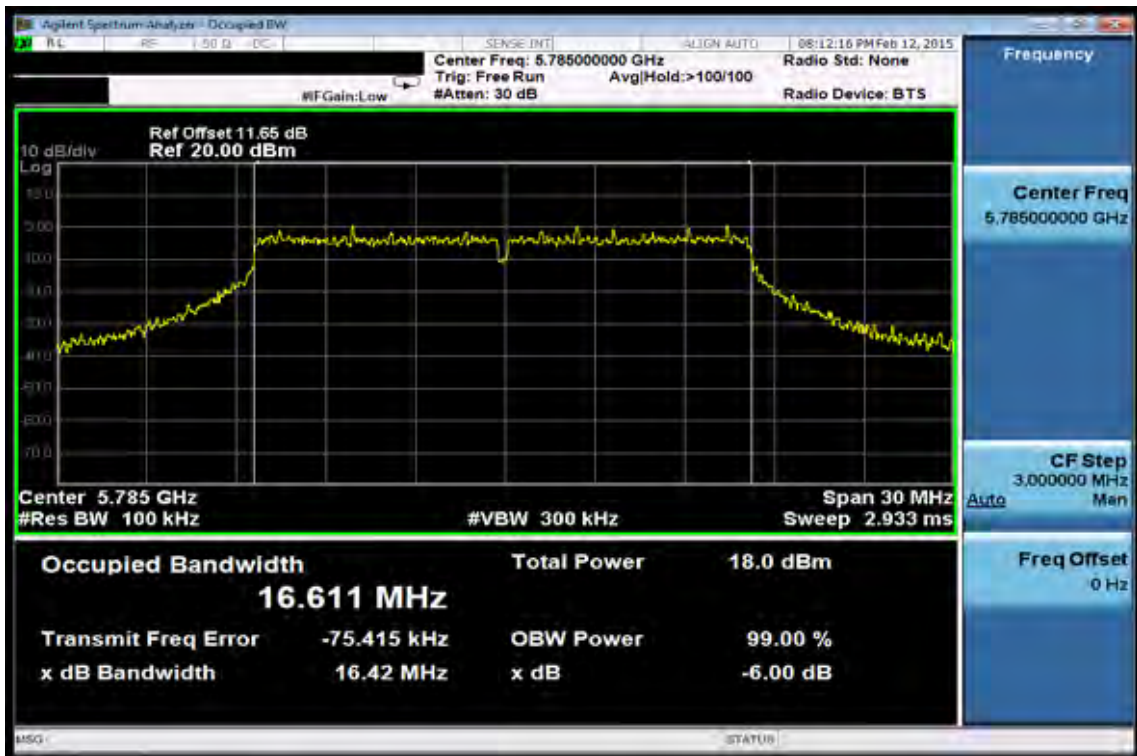
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802.11a, 5725~5850 MHz
6dB Band Width Test Data CH-Low (5745 MHz)



6dB Band Width Test Data CH-Mid (5785 MHz)



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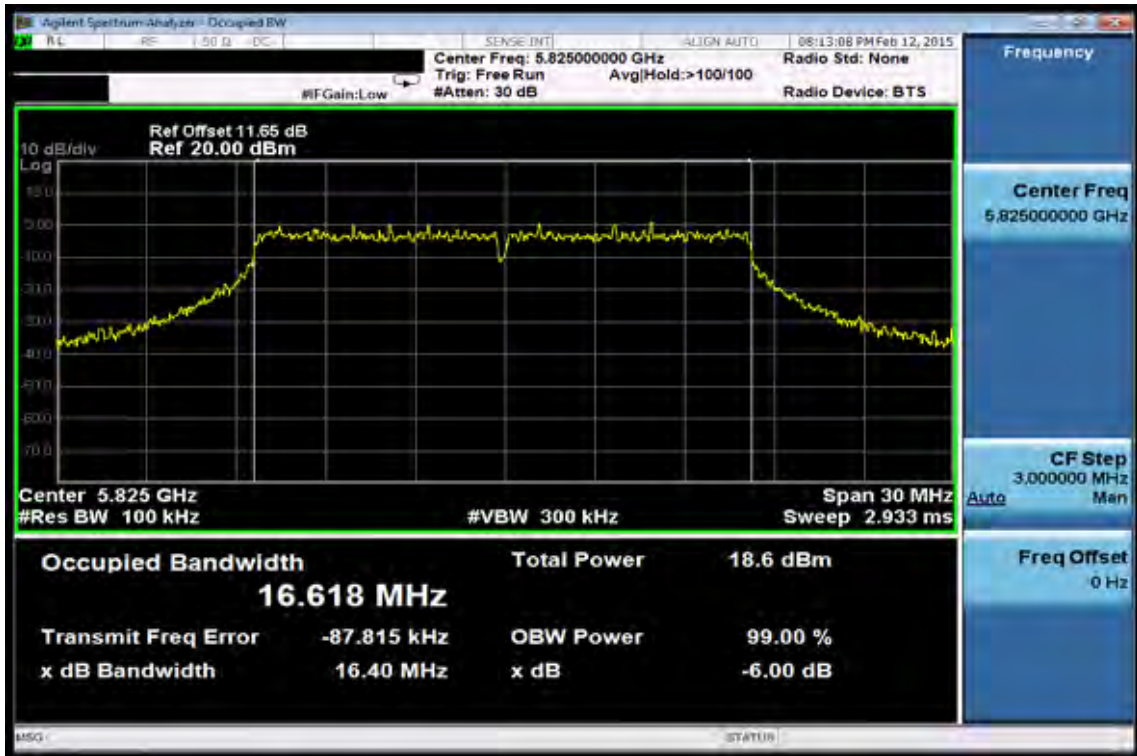
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6dB Band Width Test Data CH-High (5825 MHz)



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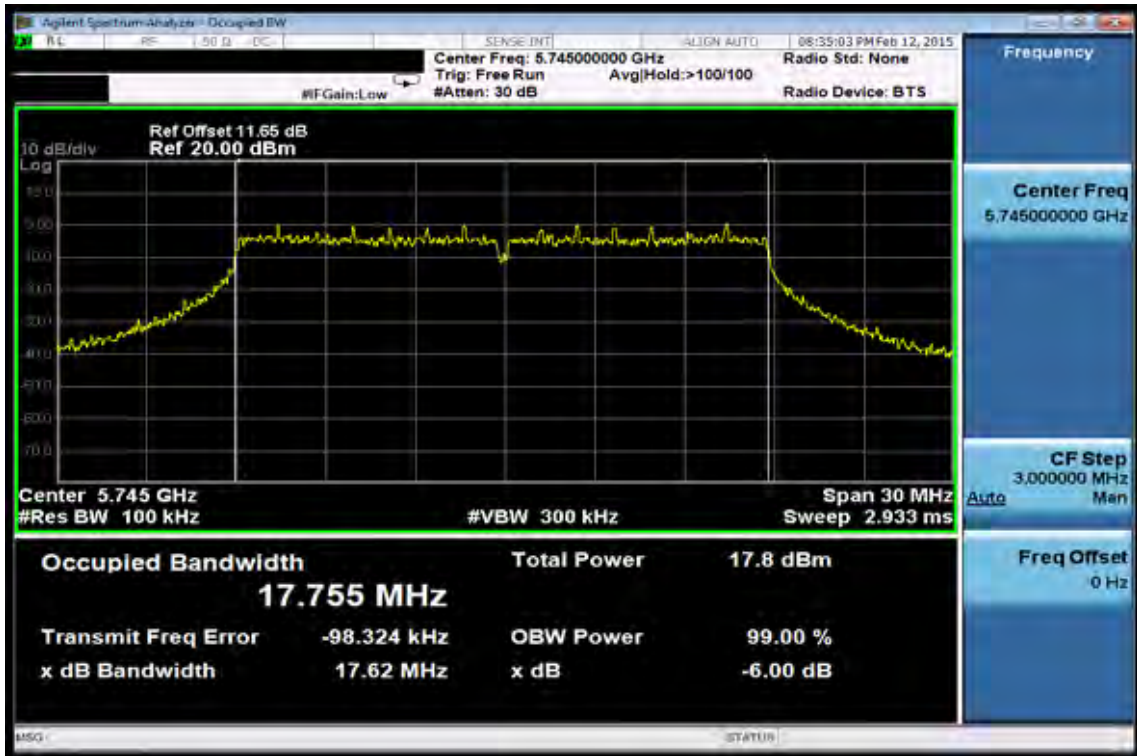
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f (886-2) 2298-0488

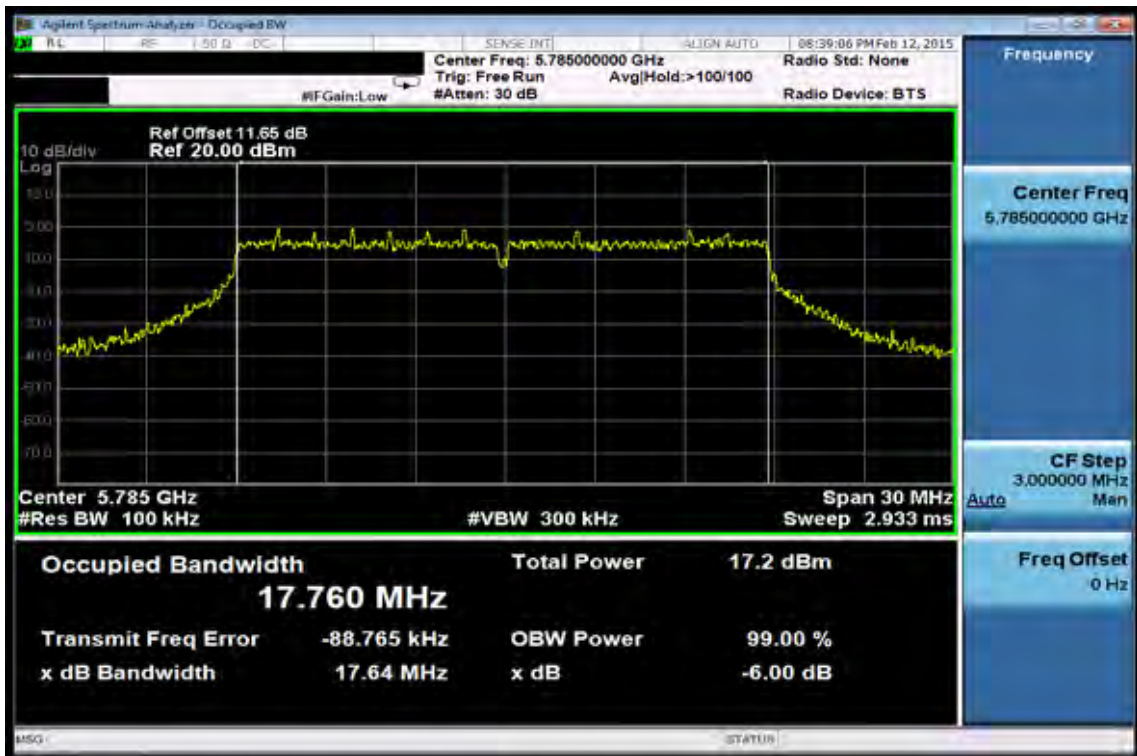
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802.11n HT20, 5725~5850 MHz
6dB Band Width Test Data CH-Low (5745 MHz)



6dB Band Width Test Data CH-Mid (5785 MHz)



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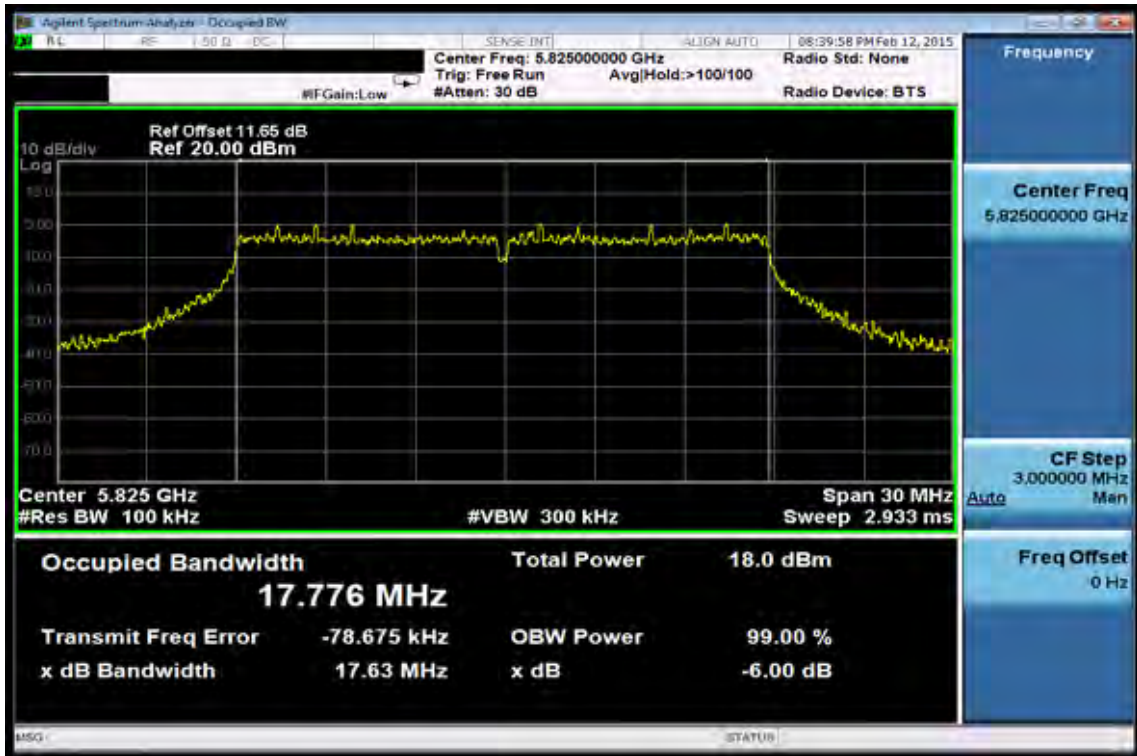
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6dB Band Width Test Data CH-High (5825 MHz)



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8 THE MAXIMUM OUTPUT POWER MEASUREMENT

8.1 Standard Applicable

According to §15.407(a)

1. For the band 5.150-5.250 GHz, the maximum conducted power over the frequency of operation shall not exceed the lesser of 250mW (23.98dBm).
2. For the band 5.25-5.35 GHz and 5.47-5.725GHz, the maximum conducted power over the frequency of operation shall not exceed the lesser of 250 mW (23.98dBm) or 11 dBm + 10log B.
3. For the band 5.725-5.850 GHz, the maximum conducted power over the frequency of operation shall not exceed the lesser of 1W (30dBm)

8.2 Measurement Procedure

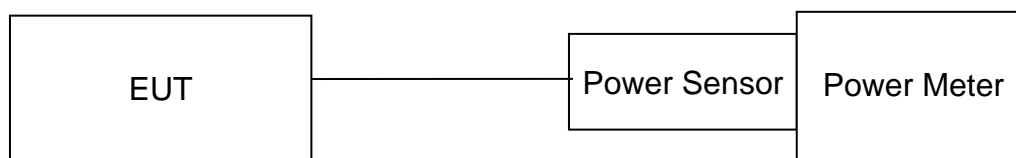
1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
3. Set the offset $10 \cdot \log(1/x)$, $a=0.06$, $n_{HT20}=0.07$
4. Record the max. reading.
5. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

Note: For EIRP/ERP measurement, the formula as deduced in 1.3.2 of KDB 412172 D01 is used to calculate. $ERP/EIRP = P_t + G_t - L_c$, where P_t = transmitter output power measured directly at antenna port, expressing in dBm, and G_t = gain of the transmitting antenna in dBi that can be referred in antenna spec provided by the manufacturer in section 1.1, L_c = signal attenuation in the cable between the transmitting port and antenna.

8.3 Measurement Equipment Used:

Refer to section 7.3 for details.

8.4 Test Set-up:



8.5 Measurement Result

802.11a

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| The Maximum Output Power | | | |
|--------------------------|-----------------|-----------|--|
| CH | Frequency (MHz) | Data Rate | Required Limit |
| | | 6 | |
| 36 | 5180 | 13.84 | 23.98dBm |
| 44 | 5220 | 13.86 | 23.98dBm |
| 48 | 5240 | 13.72 | 23.98dBm |
| 52 | 5260 | 13.97 | 23.98dBm or $11+10\log(B) = 23.22\text{dBm}$ |
| 60 | 5300 | 13.64 | 23.98dBm or $11+10\log(B) = 23.21\text{dBm}$ |
| 64 | 5320 | 13.74 | 23.98dBm or $11+10\log(B) = 23.21\text{dBm}$ |
| 100 | 5500 | 13.97 | 23.98dBm or $11+10\log(B) = 23.20\text{dBm}$ |
| 116 | 5580 | 13.84 | 23.98dBm or $11+10\log(B) = 23.22\text{dBm}$ |
| 140 | 5700 | 13.7 | 23.98dBm or $11+10\log(B) = 23.21\text{dBm}$ |
| 149 | 5745 | 13.78 | 30dBm |
| 157 | 5785 | 13.9 | 30dBm |
| 165 | 5825 | 13.97 | 30dBm |

Note: Limit is re-adjusted in terms of dBm

$10 \cdot \log(250\text{mW}) = 23.98\text{dBm}$ for the limit on the band of 5260~5320Mz, & 5470~5725MHz

Note: Cable loss is 11.65dB is set as the offset on the spectrum to compensate the loss causing by cable

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802.11n HT20

| The Maximum Output Power | | | |
|--------------------------|-----------------|--------------|--|
| CH | Frequency (MHz) | Data Rate | Required Limit |
| | | MCS0 | |
| 36 | 5180 | 12.91 | 23.98dBm |
| 44 | 5220 | 12.97 | 23.98dBm |
| 48 | 5240 | 12.71 | 23.98dBm |
| 52 | 5260 | 12.83 | 23.98dBm or $11+10\log(B) = 23.50\text{dBm}$ |
| 60 | 5300 | 12.76 | 23.98dBm or $11+10\log(B) = 23.50\text{dBm}$ |
| 64 | 5320 | 12.83 | 23.98dBm or $11+10\log(B) = 23.50\text{dBm}$ |
| 100 | 5500 | 12.97 | 23.98dBm or $11+10\log(B) = 23.50\text{dBm}$ |
| 116 | 5580 | 12.95 | 23.98dBm or $11+10\log(B) = 23.49\text{dBm}$ |
| 140 | 5700 | 12.76 | 23.98dBm or $11+10\log(B) = 23.50\text{dBm}$ |
| 149 | 5745 | 12.79 | 30dBm |
| 157 | 5785 | 12.96 | 30dBm |
| 165 | 5825 | 12.96 | 30dBm |

Note: Offset 11.65dB

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9 PEAK POWER SPECTRAL DENSITY

9.1 Standard Applicable

According to §15.407(a)

1. For the band 5.15-5.25 GHz, the peak power spectral density shall not exceed 11 dBm in any 1 MHz band.
2. For the band 5.25-5.35 GHz, the peak power spectral density shall not exceed 11 dBm in any 1-MHz band.
3. For the band 5.725-5.850 GHz and 5.47-5.725GHz, the peak power spectral density shall not exceed 30 dBm in any 500KHz band.

If transmitting antennas of directional gain greater than 6 dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

9.2 Measurement Procedure (following procedure F, & E) d) method SA-2 in KDB789033 D02)

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 Spectrum.
3. Set RBW=1MHz, VBW=3MHz, Span=50MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (1001 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
4. Use the cursor on spectrum to peak search the highest level of trace
5. Add offset, duty factor a=0.06, n_HT20=0.07.
6. Record the max. reading.
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.

9.3 Measurement Equipment Used:

Refer to section 7.3 for details.

9.4 Test Set-up:

Refer to section 7.4 for details.

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9.5 Measurement Result

802.11a, 5150~5250 MHz

| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|------------|-------------|-------------|
| 5180 | -0.03 | 11.00 | -11.03 |
| 5220 | -0.84 | 11.00 | -11.84 |
| 5240 | -1.38 | 11.00 | -12.38 |

802.11a, 5250~5350 MHz

| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|------------|-------------|-------------|
| 5260 | -1.21 | 11.00 | -12.21 |
| 5300 | -0.62 | 11.00 | -11.62 |
| 5320 | -0.77 | 11.00 | -11.77 |

802.11a, 5470~5725 MHz

| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|------------|-------------|-------------|
| 5500 | -0.38 | 11.00 | -11.38 |
| 5580 | -1.22 | 11.00 | -12.22 |
| 5700 | -1.31 | 11.00 | -12.31 |

802.11a, 5725~5850 MHz

| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|------------|-------------|-------------|
| 5745 | -2.84 | 30.00 | -32.84 |
| 5785 | -3.12 | 30.00 | -33.12 |
| 5825 | -3.02 | 30.00 | -33.02 |

Note: Offset 11.65dB, where = cable loss + attenuator + duty factor

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802.11n HT20, 5150~5250 MHz

| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|------------|-------------|-------------|
| 5180 | -1.15 | 4.00 | -5.15 |
| 5220 | -1.49 | 4.00 | -5.49 |
| 5240 | -2.69 | 4.00 | -6.69 |

802.11n HT20, 5250~5350 MHz

| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|------------|-------------|-------------|
| 5260 | -2.58 | 11.00 | -13.58 |
| 5300 | -1.87 | 11.00 | -12.87 |
| 5320 | -2.19 | 11.00 | -13.19 |

802.11n HT20, 5470~5725 MHz

| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|------------|-------------|-------------|
| 5500 | -2.00 | 11.00 | -13.00 |
| 5580 | -2.54 | 11.00 | -13.54 |
| 5700 | -2.62 | 11.00 | -13.62 |

802.11n HT20, 5725~5850 MHz

| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|------------|-------------|-------------|
| 5745 | -4.52 | 30.00 | -34.52 |
| 5785 | -4.25 | 30.00 | -34.25 |
| 5825 | -4.27 | 30.00 | -34.27 |

Note: Offset 11.65dB, where = cable loss + attenuator + duty factor

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802.11a, 5150~5250 MHz
Peak Power Spectral Density Data Plot (CH Low 5180 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5220 MHz)



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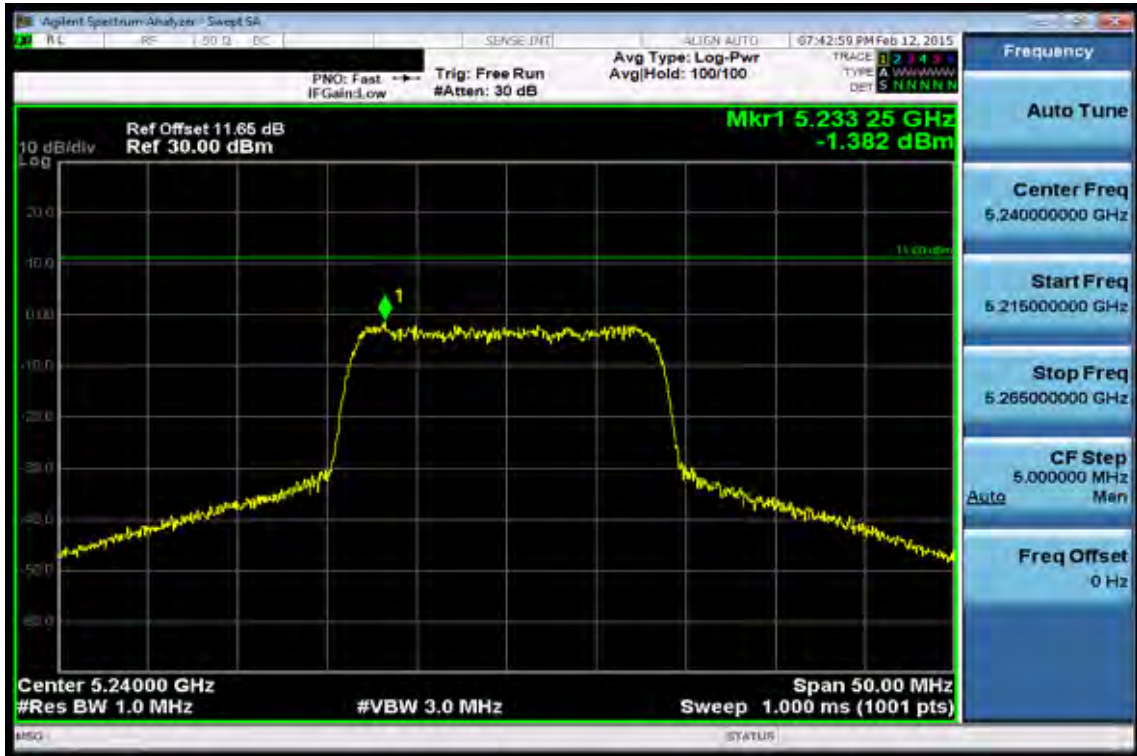
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Peak Power Spectral Density Data Plot (CH High 5240 MHz)



802.11a, 5250~5350 MHz

Peak Power Spectral Density Data Plot (CH Low 5260 MHz)



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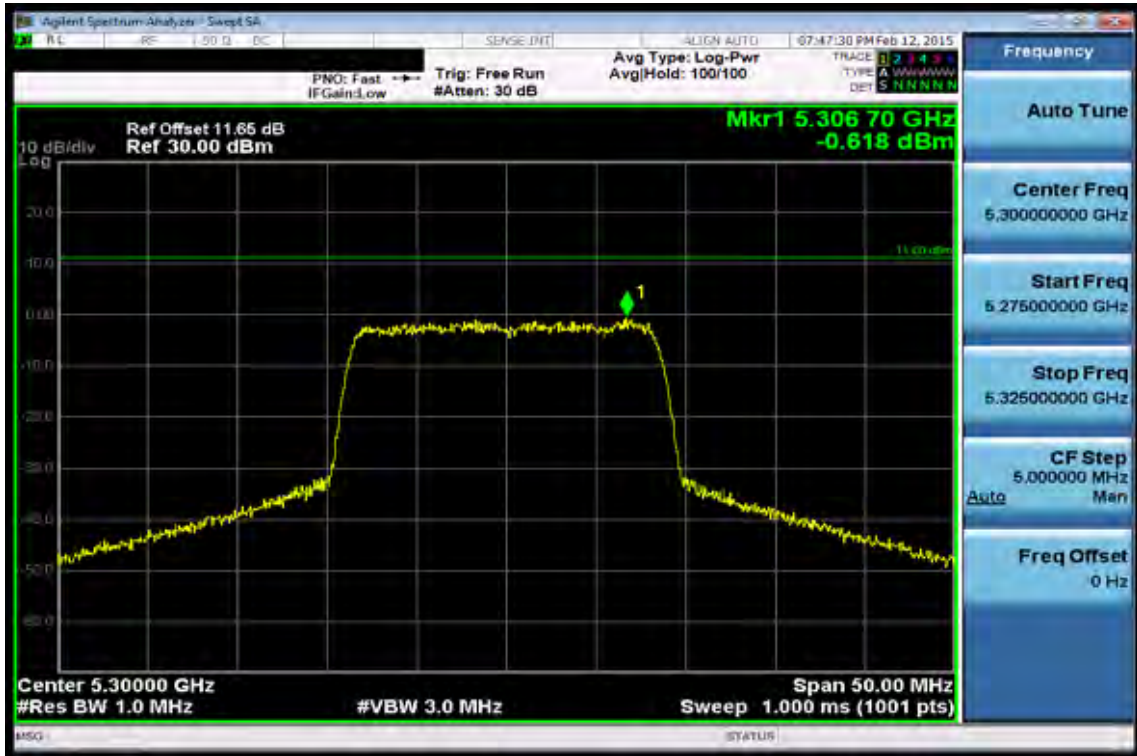
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Peak Power Spectral Density Data Plot (CH Mid 5300 MHz)



Peak Power Spectral Density Data Plot (CH High 5320 MHz)



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802.11a, 5470~5725 MHz

Peak Power Spectral Density Data Plot (CH Low 5500 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5580 MHz)



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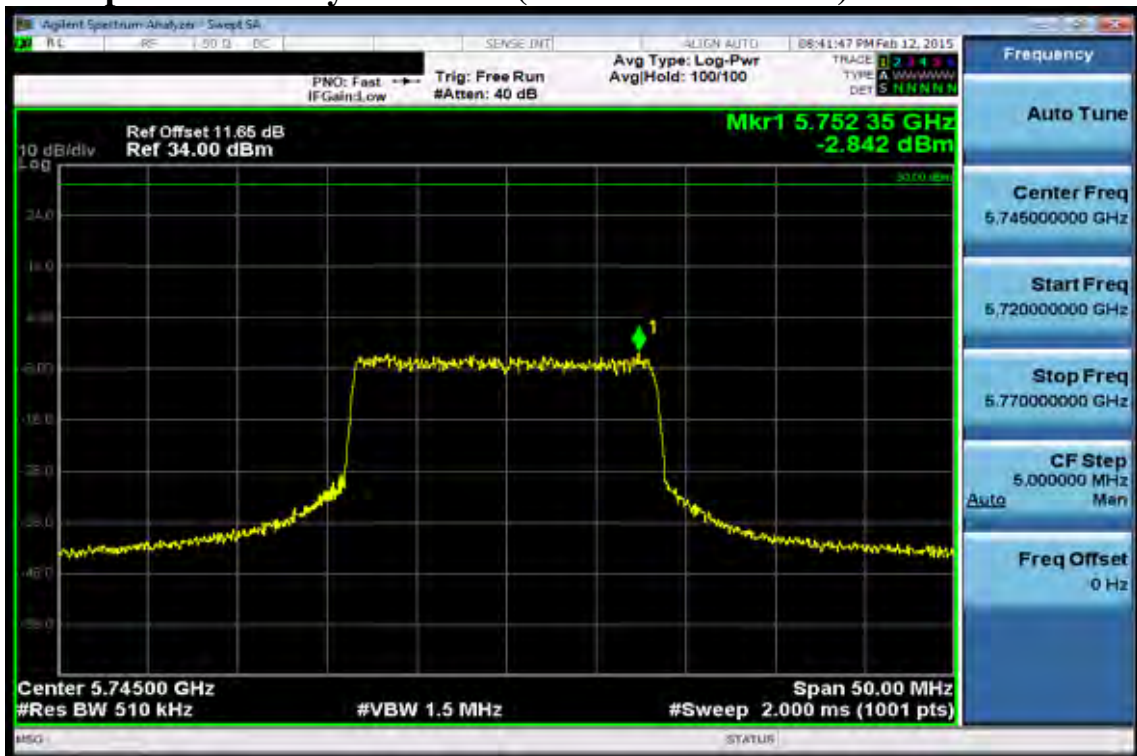
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Peak Power Spectral Density Data Plot (CH High 5700 MHz)



802.11a, 5725~5850 MHz

Peak Power Spectral Density Data Plot (CH Low 5745 MHz)



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Peak Power Spectral Density Data Plot (CH Mid 5785 MHz)



Peak Power Spectral Density Data Plot (CH High 5825 MHz)



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802.11n HT20, 5150~5250 MHz

Peak Power Spectral Density Data Plot (CH Low 5180 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5220 MHz)



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Peak Power Spectral Density Data Plot (CH High 5240 MHz)



802.11n HT20, 5250~5350 MHz

Peak Power Spectral Density Data Plot (CH Low 5260MHz)



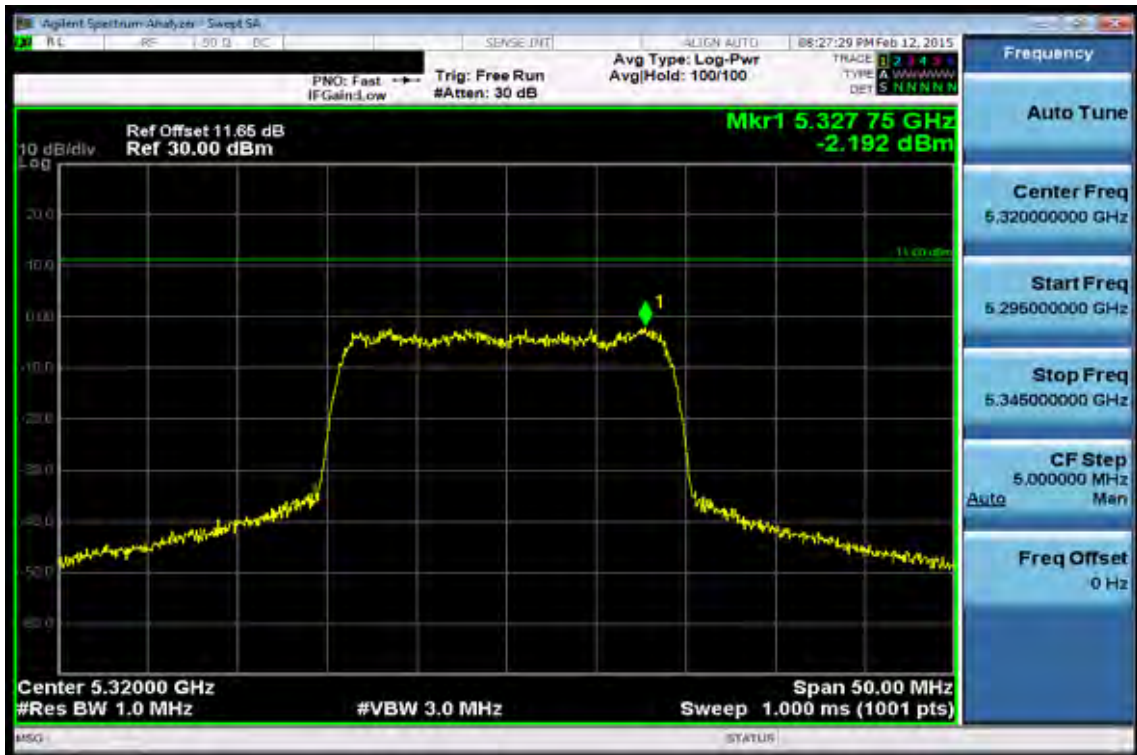
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Peak Power Spectral Density Data Plot (CH Mid 5300 MHz)



Peak Power Spectral Density Data Plot (CH High 5320 MHz)



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802.11n HT20, 5470~5725 MHz
Peak Power Spectral Density Data Plot (CH Low 5500 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5580MHz)



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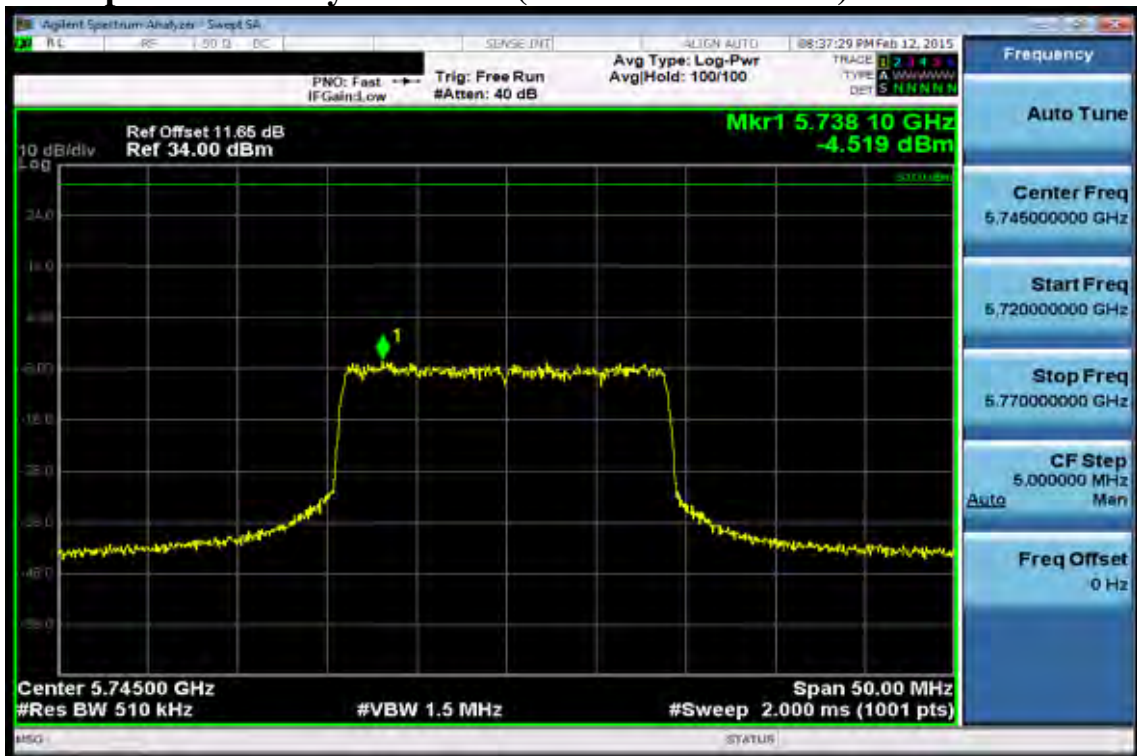
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Peak Power Spectral Density Data Plot (CH High 5700 MHz)



802.11n HT20, 5725~5850 MHz

Peak Power Spectral Density Data Plot (CH Low 5745 MHz)



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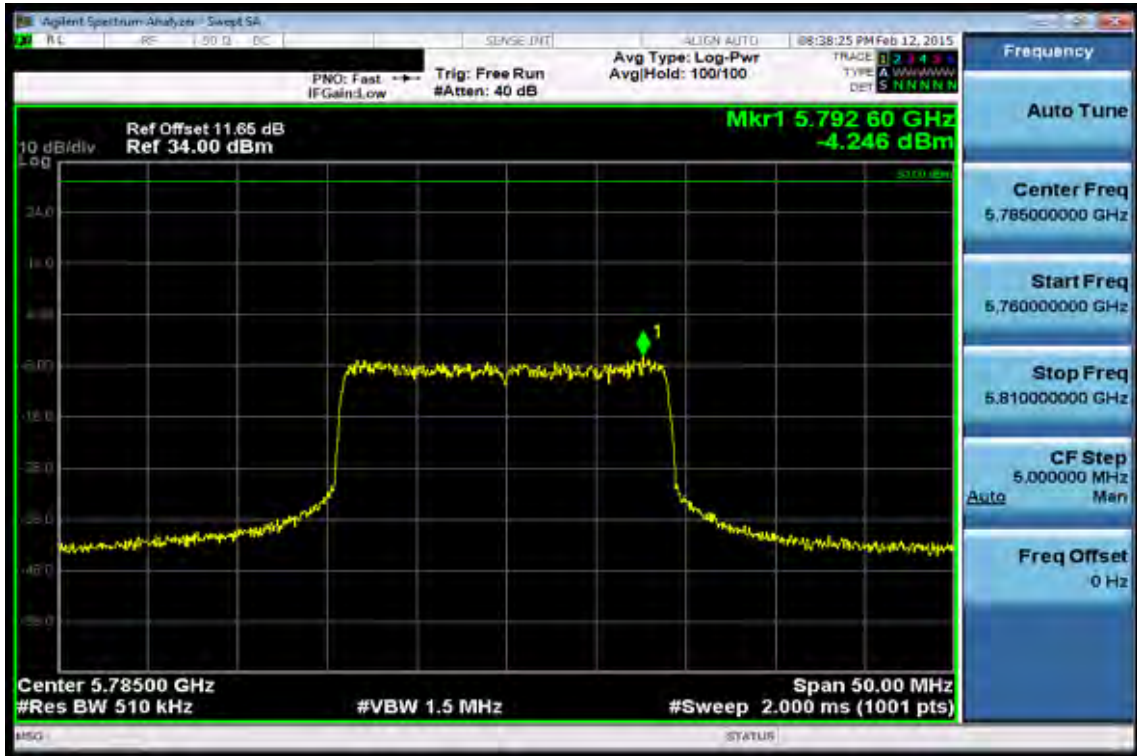
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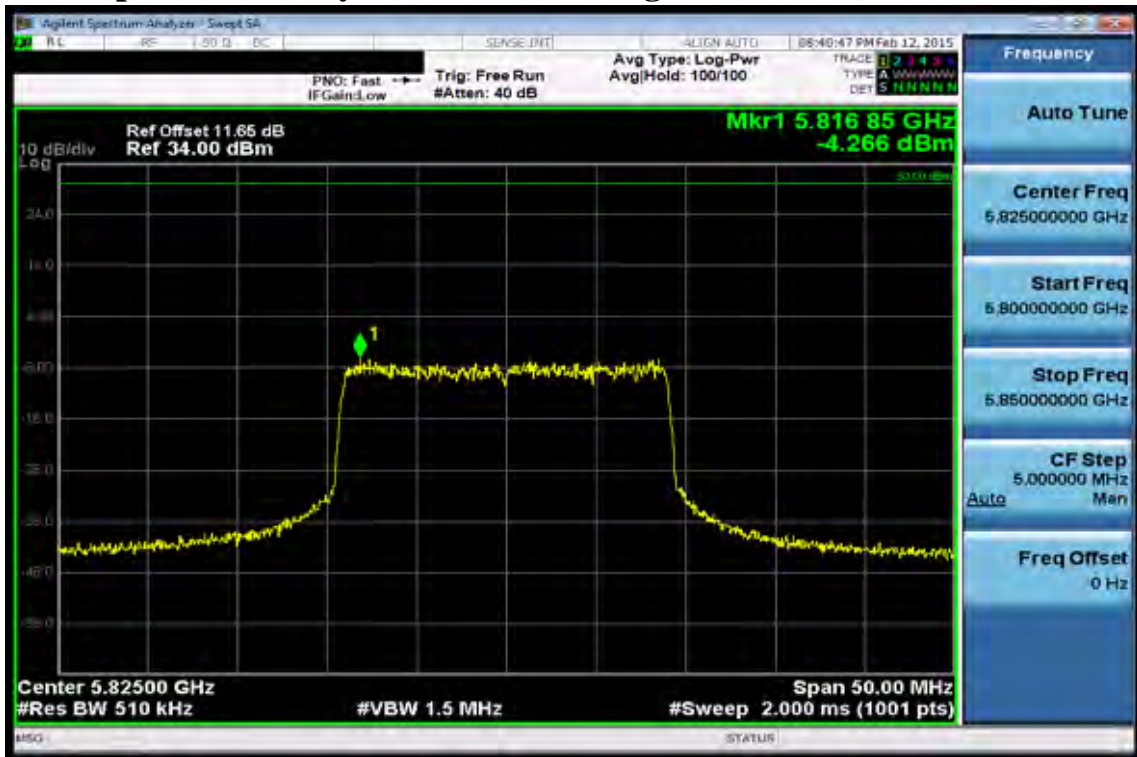
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Peak Power Spectral Density Data Plot (CH Mid 5785 MHz)



Peak Power Spectral Density Data Plot (CH High 5825 MHz)



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10 UNDESIRABLE EMISSION - RADIATED MEASUREMENT

10.1 Standard Applicable

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

1. For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
2. For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

| APPLICABLE TO | LIMIT | |
|--|---|---|
| FCC KDB 789033 D02 General UNII Test Procedures New Rules | FIELD STRENGTH AT 3m | |
| | PK: 74 (dBµV/m) | AV 54 (dBµV/m) |
| APPLICABLE TO | EIRP LIMIT | FIELD STRENGTH AT 3m |
| 15.407(b)(1) | PK: -27 (dBm/MHz) | PK: 68.3 (dBµV/m) |
| 15.407(b)(2) | | |
| 15.407(b)(3) | | |
| 15.407(b)(4)(i) | PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4 | PK: 68.2(dBµV/m) *1 PK:105.2 (dBµV/m) *2 PK: 110.8(dBµV/m) *3 PK:122.2 (dBµV/m) *4 |
| *1 beyond 75 MHz or more above of the bandedge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. | | |

$EIRP = (E \cdot d)^2 / 30$, where E is the field in V/m, d is the measurement distance (3m), EIRP is the equivalent isotropically radiated power in Watts.

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Unwanted spurious emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

| 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)

10.2 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
4. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
5. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
11. Repeat above procedures until all frequency measured were complete.

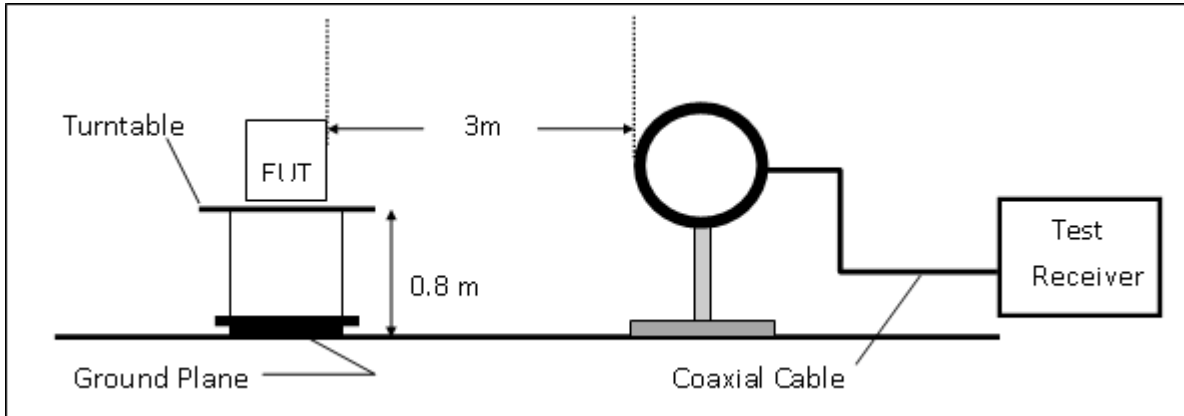
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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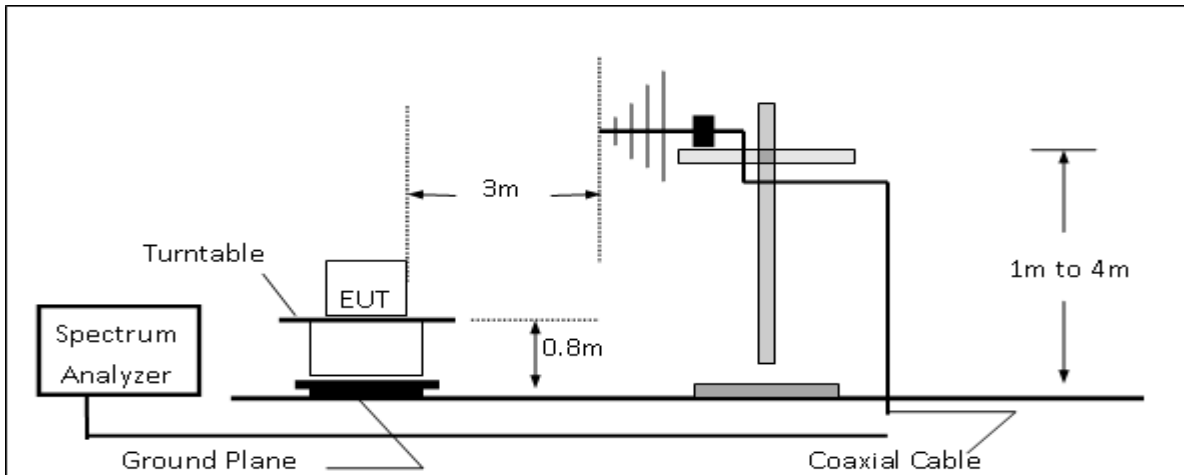
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10.3 Test SET-UP (Block Diagram of Configuration)

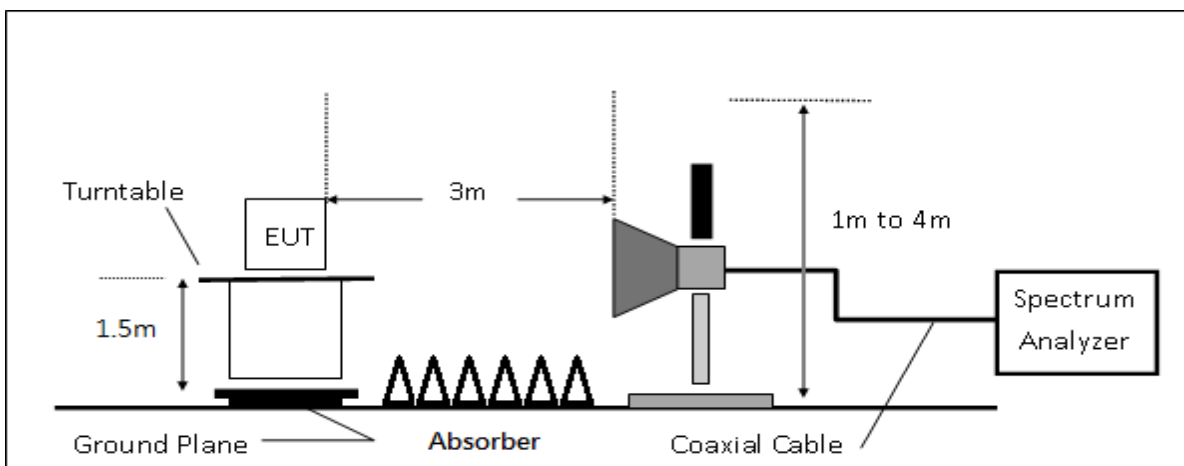
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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 Equipment Used:

| 966 Chamber | | | | | |
|-------------------|-----------------|--------------------------------|------------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| EMI Test Receiver | R&S | ESU 40 | 100363 | 04/12/2014 | 04/11/2015 |
| Loop Antenna | ETS-Lindgren | 6502 | 00143303 | 12/09/2014 | 12/08/2015 |
| Broadband Antenna | TESEQ | CBL 6112D | 35240 | 12/05/2014 | 12/04/2015 |
| Horn Antenna | ETS-Lindgren | 3117 | 00143272 | 12/08/2014 | 12/07/2015 |
| Horn Antenna | ETS-Lindgren | 3160-09 | 00117911 | 11/13/2014 | 11/12/2015 |
| Horn Antenna | ETS-Lindgren | 3160-10 | 00117783 | 11/13/2014 | 11/12/2015 |
| Pre Amplifier | EMC Instruments | EMC330 | 980096 | 12/19/2014 | 12/18/2015 |
| Pre Amplifier | EMC Instruments | EMC0011830 | 980199 | 12/19/2014 | 12/18/2015 |
| Pre Amplifier | R&S | SCU-18 | 10204 | 12/19/2014 | 12/18/2015 |
| Pre Amplifier | R&S | SCU-26 | 100780 | 12/19/2014 | 12/18/2015 |
| Coaxial Cable | Huber+Suhner | RG 214/U | 966Rx 9K-30M | 12/19/2014 | 12/18/2015 |
| Coaxial Cable | Huber+Suhner | RG 214/U SUCOFLEX 104 | 966Rx 30M-3G | 12/19/2014 | 12/18/2015 |
| Coaxial Cable | Huber+Suhner | SUCOFLEX 104 | 966Rx 1G-18G | 12/19/2014 | 12/18/2015 |
| Coaxial Cable | Huber+Suhner | mini 141-12 SUCOFLEX 104 | 966Rx 18G-40G | 12/19/2014 | 12/18/2015 |
| Coaxial Cable | Huber+Suhner | SUCOFLEX 104 | 966Tx 30M-18G | 12/19/2014 | 12/18/2015 |
| Coaxial Cable | Huber+Suhner | SUCOFLEX 102 | 966Tx 18G-40G | 12/19/2014 | 12/18/2015 |
| Attenuator | WOKEN | 218FS-10 | RF27 | 12/19/2014 | 12/18/2015 |
| Site NSA | SGS | 966 Cham- ber C | SAC-C | 03/05/2014 | 03/04/2015 |
| Site VSWR | SGS | 966 Cham- ber C | SAC-C | 03/05/2014 | 03/04/2015 |
| DC Power Supply | HOLA | DP-3003 | D7070035 | 05/31/2014 | 05/30/2015 |
| 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. |
| Test Software | World-Pallas | Dr. E | V 3.0 Lite | N.C.R. | N.C.R. |

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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 | |

10.6 Measurement Result

Refer to attach tabular data sheets.

NOTE:

The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 100kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.

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Radiated Spurious Emission Measurement Result 802.11a, 5150~5250 MHz

| | | | |
|-----------------------|-----------|--------------------------|---------------------|
| Operation Band | :802.11 a | Test Date | :2015-02-22 |
| Fundamental Frequency | :5180 MHz | Temp./Humi. | :25.5 deg_C / 62 RH |
| Operation Mode | :TX LOW | Engineer | :Vito |
| 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 62.98 | Peak | S | 49.23 | -28.27 | 20.96 | 40.00 | -19.04 |
| 71.71 | Peak | S | 51.78 | -27.63 | 24.15 | 40.00 | -15.85 |
| 101.78 | Peak | S | 51.73 | -23.54 | 28.19 | 43.50 | -15.31 |
| 312.27 | Peak | S | 38.66 | -18.66 | 19.99 | 46.00 | -26.01 |
| 452.92 | Peak | S | 38.46 | -14.83 | 23.63 | 46.00 | -22.37 |
| 528.58 | Peak | S | 40.68 | -13.16 | 27.52 | 46.00 | -18.48 |
| 10360.00 | Peak | H | 36.46 | 18.94 | 55.40 | 68.30 | -12.90 |
| 15540.00 | Peak | H | - | | | | |
| 20720.00 | Peak | H | - | | | | |
| 25900.00 | Peak | H | - | | | | |
| 31080.00 | Peak | H | - | | | | |
| 36260.00 | Peak | H | - | | | | |

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| | | | |
|-----------------------|-----------|--------------------------|---------------------|
| Operation Band | :802.11 a | Test Date | :2015-02-22 |
| Fundamental Frequency | :5180 MHz | Temp./Humi. | :16.7 deg_C / 52 RH |
| Operation Mode | :TX LOW | Engineer | :Vito |
| EUT Pol. | :E2 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 71.71 | Peak | S | 49.99 | -27.63 | 22.36 | 40.00 | -17.64 |
| 101.78 | Peak | S | 52.02 | -23.54 | 28.48 | 43.50 | -15.02 |
| 172.59 | Peak | S | 45.65 | -23.96 | 21.69 | 43.50 | -21.81 |
| 312.27 | Peak | S | 41.06 | -18.66 | 22.40 | 46.00 | -23.60 |
| 445.16 | Peak | S | 40.20 | -15.18 | 25.01 | 46.00 | -20.99 |
| 528.58 | Peak | S | 41.31 | -13.16 | 28.15 | 46.00 | -17.85 |
| 10360.00 | Peak | H | 37.95 | 18.94 | 56.89 | 68.30 | -11.41 |
| 15540.00 | Peak | H | - | | | | |
| 20720.00 | Peak | H | - | | | | |
| 25900.00 | Peak | H | - | | | | |
| 31080.00 | Peak | H | - | | | | |
| 36260.00 | Peak | H | - | | | | |

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| | | | |
|-----------------------|-----------|--------------------------|---------------------|
| Operation Band | :802.11 a | Test Date | :2015-02-22 |
| Fundamental Frequency | :5220 MHz | Temp./Humi. | :16.7 deg_C / 52 RH |
| Operation Mode | :TX MID | Engineer | :Vito |
| EUT Pol. | :E2 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 71.71 | Peak | S | 45.45 | -27.63 | 17.82 | 40.00 | -22.18 |
| 96.93 | Peak | S | 44.82 | -24.36 | 20.46 | 43.50 | -23.04 |
| 528.58 | Peak | S | 40.44 | -13.16 | 27.27 | 46.00 | -18.73 |
| 600.36 | Peak | S | 36.45 | -12.45 | 24.00 | 46.00 | -22.00 |
| 647.89 | Peak | S | 35.72 | -11.08 | 24.64 | 46.00 | -21.36 |
| 720.64 | Peak | S | 37.18 | -10.77 | 26.41 | 46.00 | -19.59 |
| 10440.00 | Peak | H | 36.90 | 19.03 | 55.93 | 68.30 | -12.37 |
| 15660.00 | Peak | H | - | | | | |
| 20880.00 | Peak | H | - | | | | |
| 26100.00 | Peak | H | - | | | | |
| 31320.00 | Peak | H | - | | | | |
| 36540.00 | Peak | H | - | | | | |

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| | | | |
|-----------------------|-----------|--------------------------|---------------------|
| Operation Band | :802.11 a | Test Date | :2015-02-22 |
| Fundamental Frequency | :5240 MHz | Temp./Humi. | :16.7 deg_C / 52 RH |
| Operation Mode | :TX HIGH | Engineer | :Vito |
| 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 71.71 | Peak | S | 49.33 | -27.63 | 21.70 | 40.00 | -18.30 |
| 101.78 | Peak | S | 50.91 | -23.54 | 27.37 | 43.50 | -16.13 |
| 352.04 | Peak | S | 38.85 | -17.31 | 21.54 | 46.00 | -24.46 |
| 445.16 | Peak | S | 38.91 | -15.18 | 23.73 | 46.00 | -22.27 |
| 503.36 | Peak | S | 37.31 | -14.15 | 23.16 | 46.00 | -22.84 |
| 528.58 | Peak | S | 40.45 | -13.16 | 27.29 | 46.00 | -18.71 |
| 10480.00 | Peak | H | 37.08 | 19.13 | 56.21 | 68.30 | -12.09 |
| 15720.00 | Peak | H | - | | | | |
| 20960.00 | Peak | H | - | | | | |
| 26200.00 | Peak | H | - | | | | |
| 31440.00 | Peak | H | - | | | | |
| 36680.00 | Peak | H | - | | | | |

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| | | | |
|-----------------------|-----------|--------------------------|---------------------|
| Operation Band | :802.11 a | Test Date | :2015-02-22 |
| Fundamental Frequency | :5240 MHz | Temp./Humi. | :16.7 deg_C / 52 RH |
| Operation Mode | :TX HIGH | Engineer | :Vito |
| EUT Pol. | :E2 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 71.71 | Peak | S | 48.28 | -27.63 | 20.66 | 40.00 | -19.34 |
| 101.78 | Peak | S | 47.09 | -23.54 | 23.55 | 43.50 | -19.95 |
| 528.58 | Peak | S | 40.82 | -13.16 | 27.65 | 46.00 | -18.35 |
| 624.61 | Peak | S | 40.14 | -12.15 | 27.99 | 46.00 | -18.01 |
| 647.89 | Peak | S | 40.32 | -11.08 | 29.24 | 46.00 | -16.76 |
| 672.14 | Peak | S | 39.61 | -11.68 | 27.92 | 46.00 | -18.08 |
| 10480.00 | Peak | H | 36.73 | 19.13 | 55.86 | 68.30 | -12.44 |
| 15720.00 | Peak | H | - | | | | |
| 20960.00 | Peak | H | - | | | | |
| 26200.00 | Peak | H | - | | | | |
| 31440.00 | Peak | H | - | | | | |
| 36680.00 | Peak | H | - | | | | |

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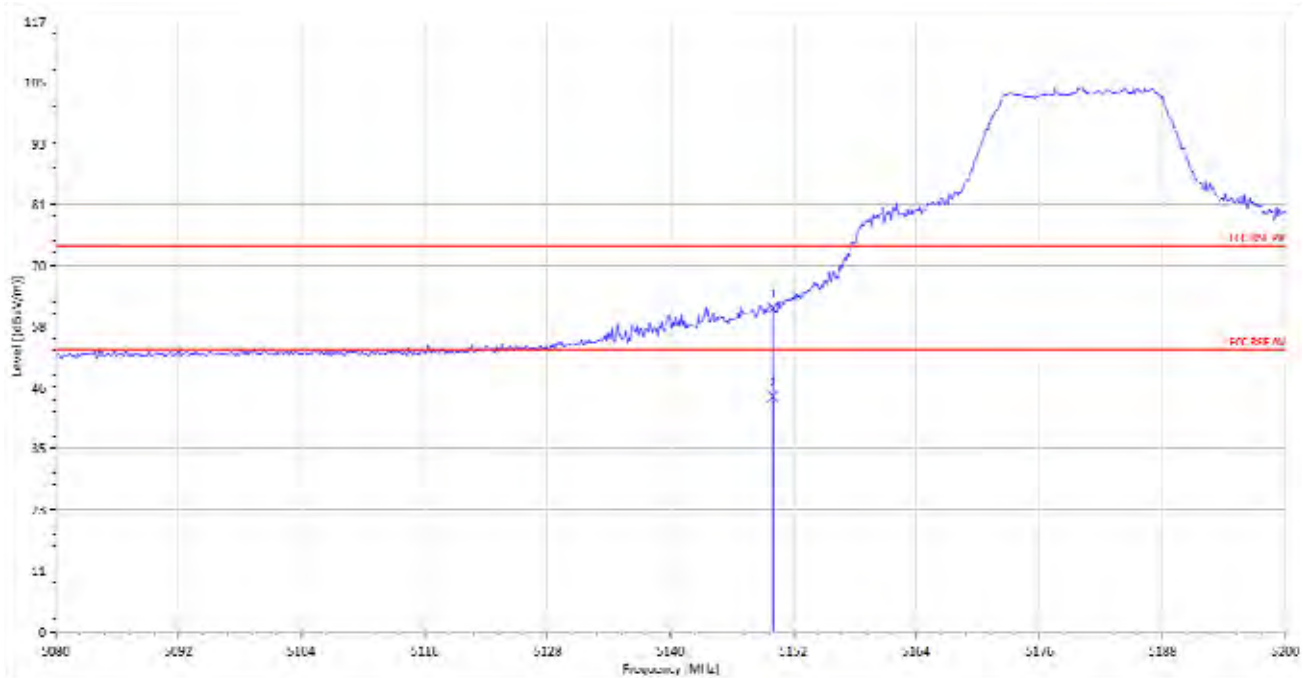
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| | | | |
|-----------------------|---------------|--------------------------|---------------------|
| Operation Band | :802.11 a | Test Date | :2015-02-22 |
| Fundamental Frequency | :5180 MHz | Temp./Humi. | :25.5 deg_C / 63 RH |
| Operation Mode | :Bandedge LOW | Engineer | :Vito |
| 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. MHz | Detector Mode | Note | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|------------------|------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5150.00 | Peak | E | 50.91 | 11.14 | 62.05 | 74.00 | -11.95 |
| 5150.00 | Average | E | 33.95 | 11.14 | 45.09 | 54.00 | -8.91 |

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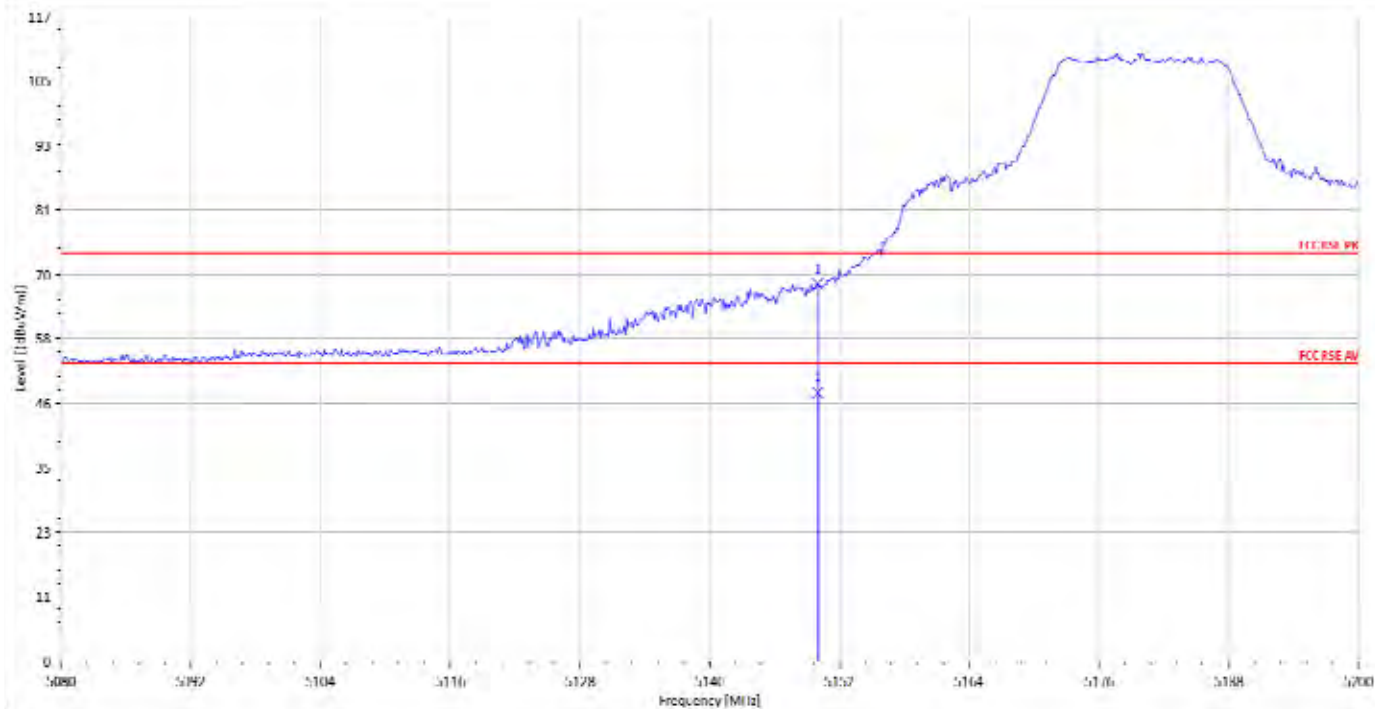
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| | | | |
|-----------------------|---------------|--------------------------|---------------------|
| Operation Band | :802.11 a | Test Date | :2015-02-22 |
| Fundamental Frequency | :5180 MHz | Temp./Humi. | :25.5 deg_C / 63 RH |
| Operation Mode | :Bandedge LOW | Engineer | :Vito |
| EUT Pol. | :E2 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. 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 |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5150.00 | Peak | E | 57.28 | 11.14 | 68.42 | 74.00 | -5.58 |
| 5150.00 | Average | E | 37.58 | 11.14 | 48.72 | 54.00 | -5.28 |

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Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz (MIMO)

| | | | |
|-----------------------|--------------|--------------------------|---------------------|
| Operation Band | :802.11 n20M | Test Date | :2015-02-22 |
| Fundamental Frequency | :5180 MHz | Temp./Humi. | :16.7 deg_C / 52 RH |
| Operation Mode | :TX LOW | Engineer | :Vito |
| 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 71.71 | Peak | S | 53.69 | -27.63 | 26.06 | 40.00 | -13.94 |
| 101.78 | Peak | S | 51.36 | -23.54 | 27.82 | 43.50 | -15.68 |
| 288.02 | Peak | S | 41.30 | -19.45 | 21.85 | 46.00 | -24.15 |
| 445.16 | Peak | S | 38.46 | -15.18 | 23.28 | 46.00 | -22.72 |
| 503.36 | Peak | S | 38.81 | -14.15 | 24.66 | 46.00 | -21.34 |
| 528.58 | Peak | S | 39.85 | -13.16 | 26.69 | 46.00 | -19.31 |
| 10360.00 | Peak | H | 37.08 | 18.94 | 56.02 | 68.30 | -12.28 |
| 15540.00 | Peak | H | - | | | | |
| 20720.00 | Peak | H | - | | | | |
| 25900.00 | Peak | H | - | | | | |
| 31080.00 | Peak | H | - | | | | |
| 36260.00 | Peak | H | - | | | | |

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Operation Band :802.11 n20M Test Date :2015-02-22
 Fundamental Frequency :5180 MHz Temp./Humi. :16.7 deg_C / 52 RH
 Operation Mode :TX LOW Engineer :Vito
 EUT Pol. :E2 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 101.78 | Peak | S | 50.91 | -23.54 | 27.37 | 43.50 | -16.13 |
| 173.56 | Peak | S | 43.64 | -23.99 | 19.65 | 43.50 | -23.85 |
| 528.58 | Peak | S | 41.28 | -13.16 | 28.12 | 46.00 | -17.88 |
| 624.61 | Peak | S | 39.23 | -12.15 | 27.08 | 46.00 | -18.92 |
| 672.14 | Peak | S | 39.27 | -11.68 | 27.59 | 46.00 | -18.41 |
| 905.91 | Peak | S | 32.55 | -7.87 | 24.68 | 46.00 | -21.32 |
| 10360.00 | Peak | H | 36.30 | 18.94 | 55.24 | 68.30 | -13.06 |
| 15540.00 | Peak | H | - | | | | |
| 20720.00 | Peak | H | - | | | | |
| 25900.00 | Peak | H | - | | | | |
| 31080.00 | Peak | H | - | | | | |
| 36260.00 | Peak | H | - | | | | |

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Operation Band :802.11 n20M Test Date :2015-02-22
 Fundamental Frequency :5220 MHz Temp./Humi. :16.7 deg_C / 52 RH
 Operation Mode :TX MID Engineer :Vito
 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 71.71 | Peak | S | 49.23 | -27.63 | 21.61 | 40.00 | -18.39 |
| 101.78 | Peak | S | 49.77 | -23.54 | 26.23 | 43.50 | -17.27 |
| 352.04 | Peak | S | 39.22 | -17.31 | 21.90 | 46.00 | -24.10 |
| 452.92 | Peak | S | 37.38 | -14.83 | 22.56 | 46.00 | -23.44 |
| 503.36 | Peak | S | 38.86 | -14.15 | 24.71 | 46.00 | -21.29 |
| 528.58 | Peak | S | 39.44 | -13.16 | 26.28 | 46.00 | -19.72 |
| 10440.00 | Peak | H | 36.92 | 19.03 | 55.94 | 68.30 | -12.36 |
| 15660.00 | Peak | H | - | | | | |
| 20880.00 | Peak | H | - | | | | |
| 26100.00 | Peak | H | - | | | | |
| 31320.00 | Peak | H | - | | | | |
| 36540.00 | Peak | H | - | | | | |

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Operation Band :802.11 n20M Test Date :2015-02-22
 Fundamental Frequency :5220 MHz Temp./Humi. :16.7 deg_C / 52 RH
 Operation Mode :TX MID Engineer :Vito
 EUT Pol. :E2 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 77.53 | Peak | S | 56.30 | -27.08 | 29.23 | 40.00 | -10.77 |
| 101.78 | Peak | S | 45.56 | -23.54 | 22.02 | 43.50 | -21.48 |
| 528.58 | Peak | S | 40.75 | -13.16 | 27.59 | 46.00 | -18.41 |
| 647.89 | Peak | S | 40.62 | -11.08 | 29.54 | 46.00 | -16.46 |
| 672.14 | Peak | S | 40.17 | -11.68 | 28.49 | 46.00 | -17.51 |
| 720.64 | Peak | S | 38.28 | -10.77 | 27.51 | 46.00 | -18.49 |
| 10440.00 | Peak | H | 37.06 | 19.03 | 56.09 | 68.30 | -12.21 |
| 15660.00 | Peak | H | - | | | | |
| 20880.00 | Peak | H | - | | | | |
| 26100.00 | Peak | H | - | | | | |
| 31320.00 | Peak | H | - | | | | |
| 36540.00 | Peak | H | - | | | | |

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Operation Band :802.11 n20M Test Date :2015-02-22
 Fundamental Frequency :5240 MHz Temp./Humi. :16.7 deg_C / 52 RH
 Operation Mode :TX HIGH Engineer :Vito
 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 71.71 | Peak | S | 51.38 | -27.63 | 23.76 | 40.00 | -16.24 |
| 101.78 | Peak | S | 50.75 | -23.54 | 27.21 | 43.50 | -16.29 |
| 312.27 | Peak | S | 40.11 | -18.66 | 21.45 | 46.00 | -24.55 |
| 452.92 | Peak | S | 36.09 | -14.83 | 21.27 | 46.00 | -24.73 |
| 503.36 | Peak | S | 37.91 | -14.15 | 23.77 | 46.00 | -22.23 |
| 528.58 | Peak | S | 37.60 | -13.16 | 24.44 | 46.00 | -21.56 |
| 10480.00 | Peak | H | 36.54 | 19.13 | 55.66 | 68.30 | -12.64 |
| 15720.00 | Peak | H | - | | | | |
| 20960.00 | Peak | H | - | | | | |
| 26200.00 | Peak | H | - | | | | |
| 31440.00 | Peak | H | - | | | | |
| 36680.00 | Peak | H | - | | | | |

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Operation Band :802.11 n20M Test Date :2015-02-22
 Fundamental Frequency :5240 MHz Temp./Humi. :16.7 deg_C / 52 RH
 Operation Mode :TX HIGH Engineer :Vito
 EUT Pol. :E2 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 71.71 | Peak | S | 49.65 | -27.63 | 22.03 | 40.00 | -17.97 |
| 101.78 | Peak | S | 52.58 | -23.54 | 29.03 | 43.50 | -14.47 |
| 352.04 | Peak | S | 39.25 | -17.31 | 21.94 | 46.00 | -24.06 |
| 528.58 | Peak | S | 42.20 | -13.16 | 29.03 | 46.00 | -16.97 |
| 624.61 | Peak | S | 41.12 | -12.15 | 28.97 | 46.00 | -17.03 |
| 672.14 | Peak | S | 40.21 | -11.68 | 28.52 | 46.00 | -17.48 |
| 10480.00 | Peak | H | 36.55 | 19.13 | 55.68 | 68.30 | -12.62 |
| 15720.00 | Peak | H | - | | | | |
| 20960.00 | Peak | H | - | | | | |
| 26200.00 | Peak | H | - | | | | |
| 31440.00 | Peak | H | - | | | | |
| 36680.00 | Peak | H | - | | | | |

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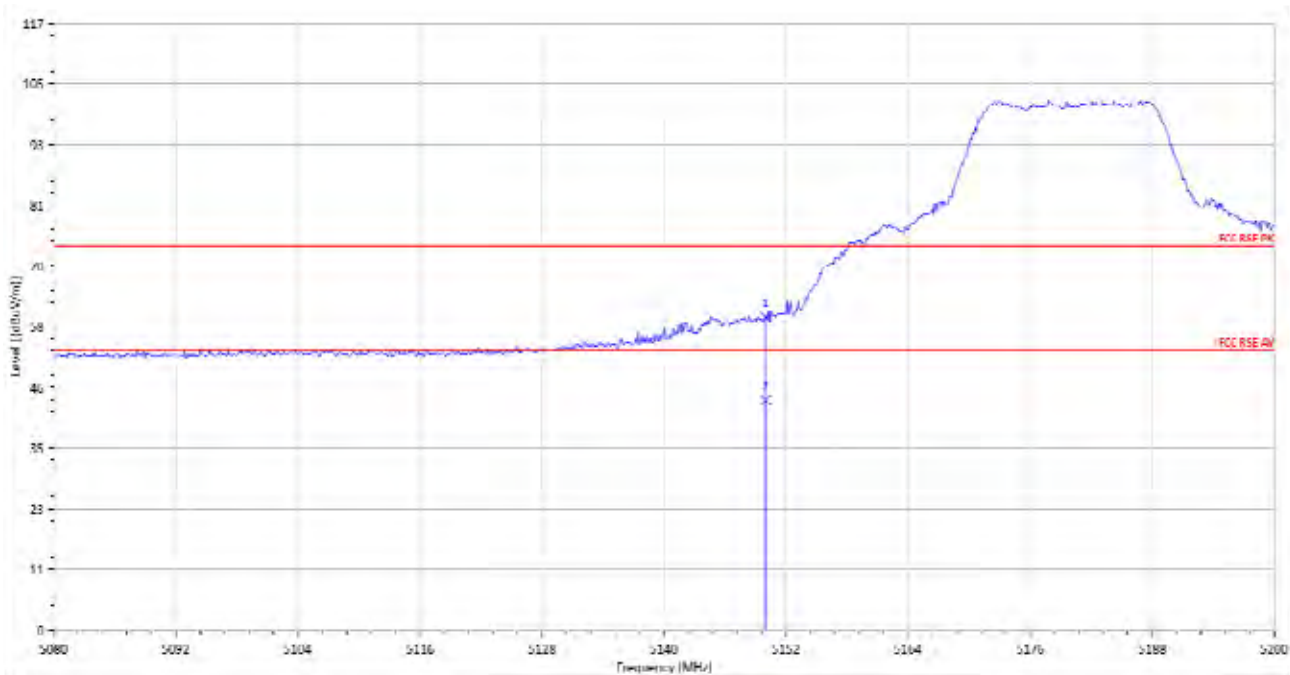
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| | | | |
|-----------------------|---------------|--------------------------|---------------------|
| Operation Band | :802.11 n20M | Test Date | :2015-02-22 |
| Fundamental Frequency | :5180 MHz | Temp./Humi. | :25.5 deg_C / 63 RH |
| Operation Mode | :Bandedge LOW | Engineer | :Vito |
| 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.

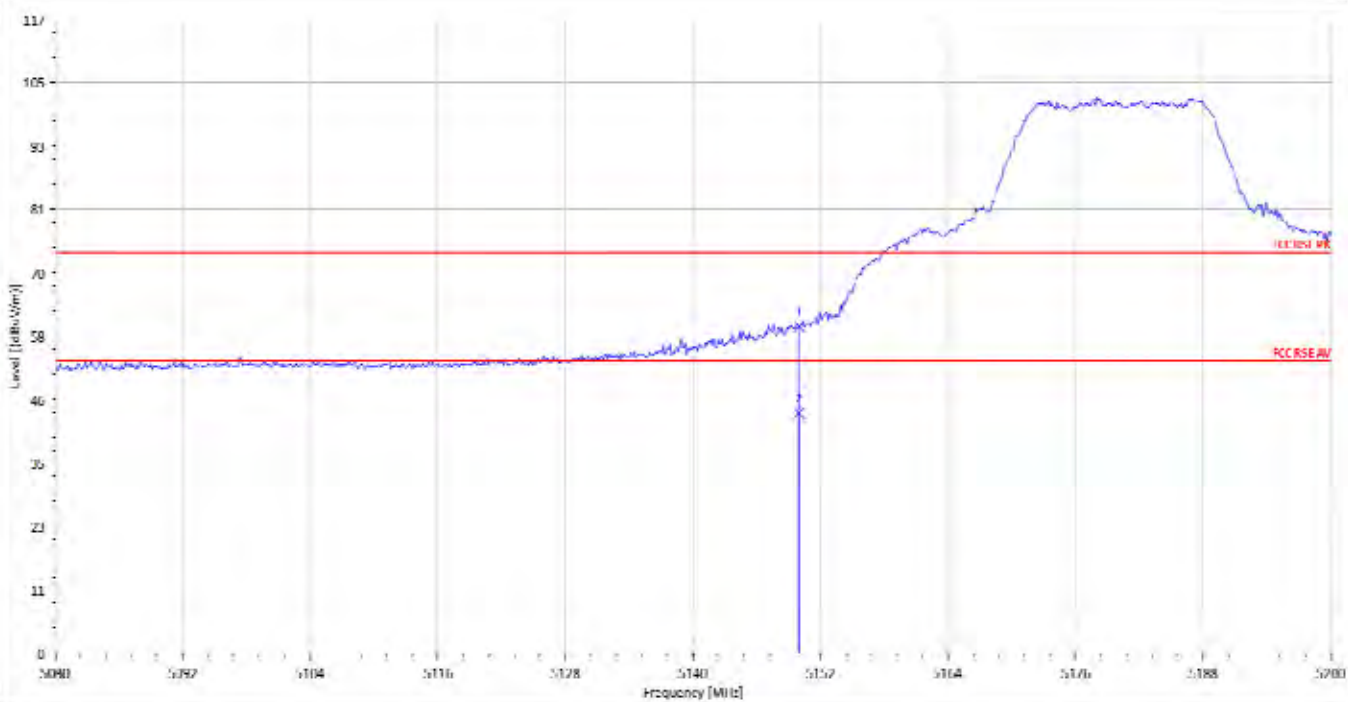
| Freq. MHz | Detector Mode | Note F/H/E/S | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5150.00 | Peak | E | 49.25 | 11.14 | 60.39 | 74.00 | -13.61 |
| 5150.00 | Average | E | 33.22 | 11.14 | 44.36 | 54.00 | -9.64 |

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| | | | |
|-----------------------|---------------|--------------------------|---------------------|
| Operation Band | :802.11 n20M | Test Date | :2015-02-22 |
| Fundamental Frequency | :5180 MHz | Temp./Humi. | :25.5 deg_C / 63 RH |
| Operation Mode | :Bandedge LOW | Engineer | :Vito |
| EUT Pol. | :E2 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. MHz | Detector Mode | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5150.00 | Peak | E | 49.13 | 11.14 | 60.27 | 74.00 | -13.73 |
| 5150.00 | Average | E | 33.11 | 11.14 | 44.25 | 54.00 | -9.75 |

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Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

| | | | |
|-----------------------|-----------|--------------------------|---------------------|
| Operation Band | :802.11 a | Test Date | :2015-02-22 |
| Fundamental Frequency | :5260 MHz | Temp./Humi. | :16.7 deg_C / 52 RH |
| Operation Mode | :TX LOW | Engineer | :Vito |
| 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 36.79 | Peak | S | 52.49 | -16.96 | 35.53 | 40.00 | -4.47 |
| 49.40 | Peak | S | 52.85 | -25.16 | 27.69 | 40.00 | -12.31 |
| 101.78 | Peak | S | 52.67 | -23.54 | 29.12 | 43.50 | -14.38 |
| 288.02 | Peak | S | 40.82 | -19.45 | 21.37 | 46.00 | -24.63 |
| 503.36 | Peak | S | 38.89 | -14.15 | 24.74 | 46.00 | -21.26 |
| 528.58 | Peak | S | 40.07 | -13.16 | 26.90 | 46.00 | -19.10 |
| 10520.00 | Peak | H | 37.08 | 19.25 | 56.33 | 68.30 | -11.97 |
| 15780.00 | Peak | H | - | | | | |
| 21040.00 | Peak | H | - | | | | |
| 26300.00 | Peak | H | - | | | | |
| 31560.00 | Peak | H | - | | | | |
| 36820.00 | Peak | H | - | | | | |

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| | | | |
|-----------------------|-----------|--------------------------|---------------------|
| Operation Band | :802.11 a | Test Date | :2015-02-22 |
| Fundamental Frequency | :5260 MHz | Temp./Humi. | :16.7 deg_C / 52 RH |
| Operation Mode | :TX LOW | Engineer | :Vito |
| EUT Pol. | :E2 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 71.71 | Peak | S | 48.63 | -27.63 | 21.01 | 40.00 | -18.99 |
| 352.04 | Peak | S | 40.28 | -17.31 | 22.97 | 46.00 | -23.03 |
| 528.58 | Peak | S | 41.68 | -13.16 | 28.52 | 46.00 | -17.48 |
| 647.89 | Peak | S | 40.15 | -11.08 | 29.08 | 46.00 | -16.92 |
| 672.14 | Peak | S | 40.32 | -11.68 | 28.64 | 46.00 | -17.36 |
| 720.64 | Peak | S | 38.27 | -10.77 | 27.50 | 46.00 | -18.50 |
| 10520.00 | Peak | H | 37.67 | 19.25 | 56.92 | 68.30 | -11.38 |
| 15780.00 | Peak | H | - | | | | |
| 21040.00 | Peak | H | - | | | | |
| 26300.00 | Peak | H | - | | | | |
| 31560.00 | Peak | H | - | | | | |
| 36820.00 | Peak | H | - | | | | |

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| | | | |
|-----------------------|-----------|--------------------------|---------------------|
| Operation Band | :802.11 a | Test Date | :2015-02-22 |
| Fundamental Frequency | :5300 MHz | Temp./Humi. | :16.7 deg_C / 52 RH |
| Operation Mode | :TX MID | Engineer | :Vito |
| 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 71.71 | Peak | S | 51.22 | -27.63 | 23.59 | 40.00 | -16.41 |
| 101.78 | Peak | S | 52.94 | -23.54 | 29.40 | 43.50 | -14.10 |
| 288.02 | Peak | S | 40.55 | -19.45 | 21.10 | 46.00 | -24.90 |
| 311.30 | Peak | S | 40.70 | -18.71 | 21.99 | 46.00 | -24.01 |
| 445.16 | Peak | S | 36.64 | -15.18 | 21.46 | 46.00 | -24.54 |
| 503.36 | Peak | S | 37.83 | -14.15 | 23.68 | 46.00 | -22.32 |
| 10600.00 | Peak | H | 36.78 | 19.38 | 56.16 | 74.00 | -17.84 |
| 10600.00 | Average | H | 23.90 | 19.38 | 43.28 | 54.00 | -10.72 |
| 15900.00 | Peak | H | - | | | | |
| 21200.00 | Peak | H | - | | | | |
| 26500.00 | Peak | H | - | | | | |
| 31800.00 | Peak | H | - | | | | |
| 37100.00 | Peak | H | - | | | | |

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f (886-2) 2298-0488

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Operation Band :802.11 a Test Date :2015-02-22
 Fundamental Frequency :5300 MHz Temp./Humi. :16.7 deg_C / 52 RH
 Operation Mode :TX MID Engineer :Vito
 EUT Pol. :E2 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 71.71 | Peak | S | 48.13 | -27.63 | 20.51 | 40.00 | -19.49 |
| 101.78 | Peak | S | 49.26 | -23.54 | 25.71 | 43.50 | -17.79 |
| 174.53 | Peak | S | 45.68 | -24.02 | 21.66 | 43.50 | -21.84 |
| 528.58 | Peak | S | 40.70 | -13.16 | 27.54 | 46.00 | -18.46 |
| 624.61 | Peak | S | 39.99 | -12.15 | 27.84 | 46.00 | -18.16 |
| 720.64 | Peak | S | 38.76 | -10.77 | 27.99 | 46.00 | -18.01 |
| 10600.00 | Peak | H | 36.77 | 19.38 | 56.15 | 74.00 | -17.85 |
| 10600.00 | Average | H | 23.92 | 19.38 | 43.30 | 54.00 | -10.70 |
| 15900.00 | Peak | H | - | | | | |
| 21200.00 | Peak | H | - | | | | |
| 26500.00 | Peak | H | - | | | | |
| 31800.00 | Peak | H | - | | | | |
| 37100.00 | Peak | H | - | | | | |

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|-----------------------|-----------|--------------------------|---------------------|
| Operation Band | :802.11 a | Test Date | :2015-02-22 |
| Fundamental Frequency | :5320 MHz | Temp./Humi. | :16.7 deg_C / 52 RH |
| Operation Mode | :TX HIGH | Engineer | :Vito |
| 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 71.71 | Peak | S | 51.34 | -27.63 | 23.71 | 40.00 | -16.29 |
| 101.78 | Peak | S | 52.78 | -23.54 | 29.24 | 43.50 | -14.26 |
| 352.04 | Peak | S | 38.72 | -17.31 | 21.40 | 46.00 | -24.60 |
| 445.16 | Peak | S | 38.43 | -15.18 | 23.25 | 46.00 | -22.75 |
| 503.36 | Peak | S | 37.62 | -14.15 | 23.47 | 46.00 | -22.53 |
| 528.58 | Peak | S | 40.05 | -13.16 | 26.89 | 46.00 | -19.11 |
| 10640.00 | Peak | H | 36.61 | 19.28 | 55.89 | 74.00 | -18.11 |
| 10640.00 | Average | H | 29.30 | 19.28 | 48.58 | 54.00 | -5.42 |
| 15960.00 | Peak | H | - | | | | |
| 21280.00 | Peak | H | - | | | | |
| 26600.00 | Peak | H | - | | | | |
| 31920.00 | Peak | H | - | | | | |
| 37240.00 | Peak | H | - | | | | |

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Operation Band :802.11 a Test Date :2015-02-22
 Fundamental Frequency :5320 MHz Temp./Humi. :16.7 deg_C / 52 RH
 Operation Mode :TX HIGH Engineer :Vito
 EUT Pol. :E2 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 53.28 | Peak | S | 53.24 | -26.52 | 26.72 | 40.00 | -13.28 |
| 101.78 | Peak | S | 51.53 | -23.54 | 27.98 | 43.50 | -15.52 |
| 173.56 | Peak | S | 45.11 | -23.99 | 21.12 | 43.50 | -22.38 |
| 528.58 | Peak | S | 41.01 | -13.16 | 27.85 | 46.00 | -18.15 |
| 647.89 | Peak | S | 39.91 | -11.08 | 28.83 | 46.00 | -17.17 |
| 720.64 | Peak | S | 39.07 | -10.77 | 28.29 | 46.00 | -17.71 |
| 10640.00 | Peak | H | 35.99 | 19.28 | 55.27 | 74.00 | -18.73 |
| 10640.00 | Average | H | 24.93 | 19.28 | 44.21 | 54.00 | -9.79 |
| 15960.00 | Peak | H | - | | | | |
| 21280.00 | Peak | H | - | | | | |
| 26600.00 | Peak | H | - | | | | |
| 31920.00 | Peak | H | - | | | | |
| 37240.00 | Peak | H | - | | | | |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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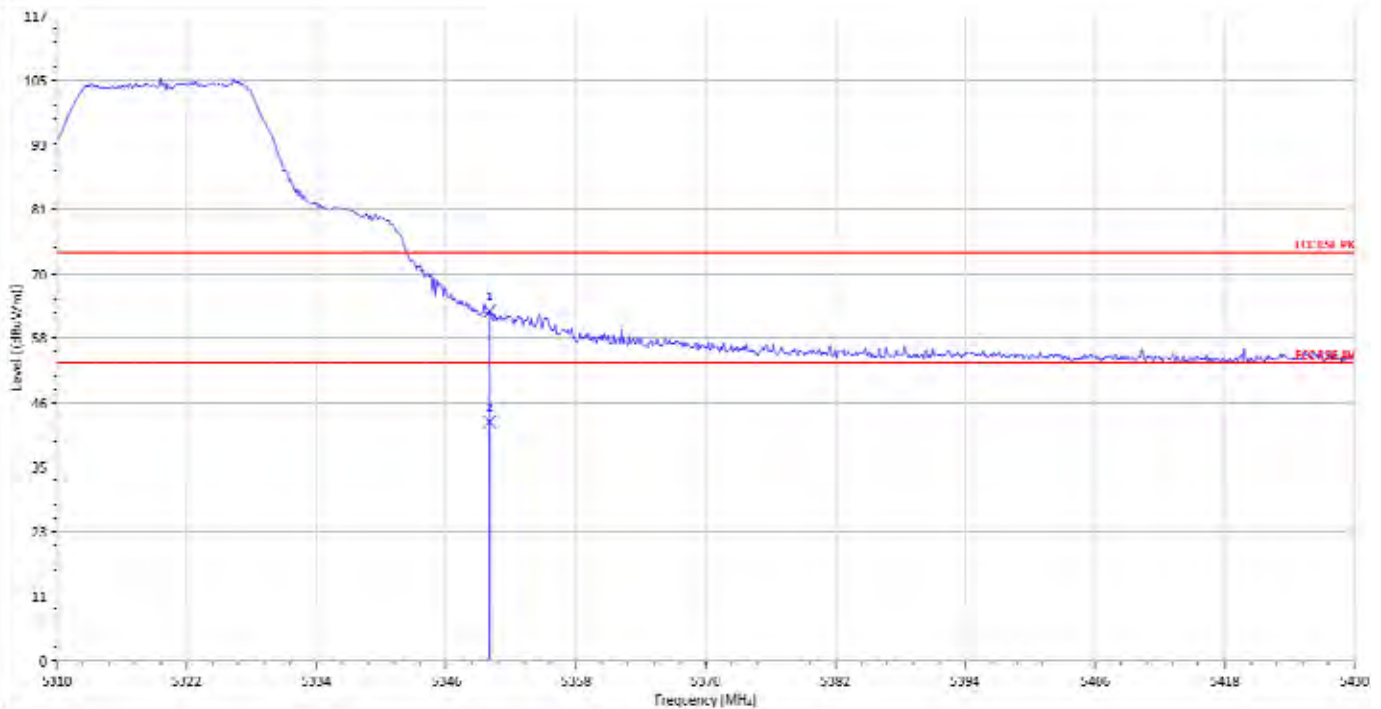
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| | | | |
|-----------------------|----------------|--------------------------|---------------------|
| Operation Band | :802.11 a | Test Date | :2015-02-22 |
| Fundamental Frequency | :5320 MHz | Temp./Humi. | :25.5 deg_C / 63 RH |
| Operation Mode | :Bandedge HIGH | Engineer | :Vito |
| 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. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5350.00 | Peak | E | 52.07 | 11.30 | 63.37 | 74.00 | -10.63 |
| 5350.00 | Average | E | 31.95 | 11.30 | 43.25 | 54.00 | -10.75 |

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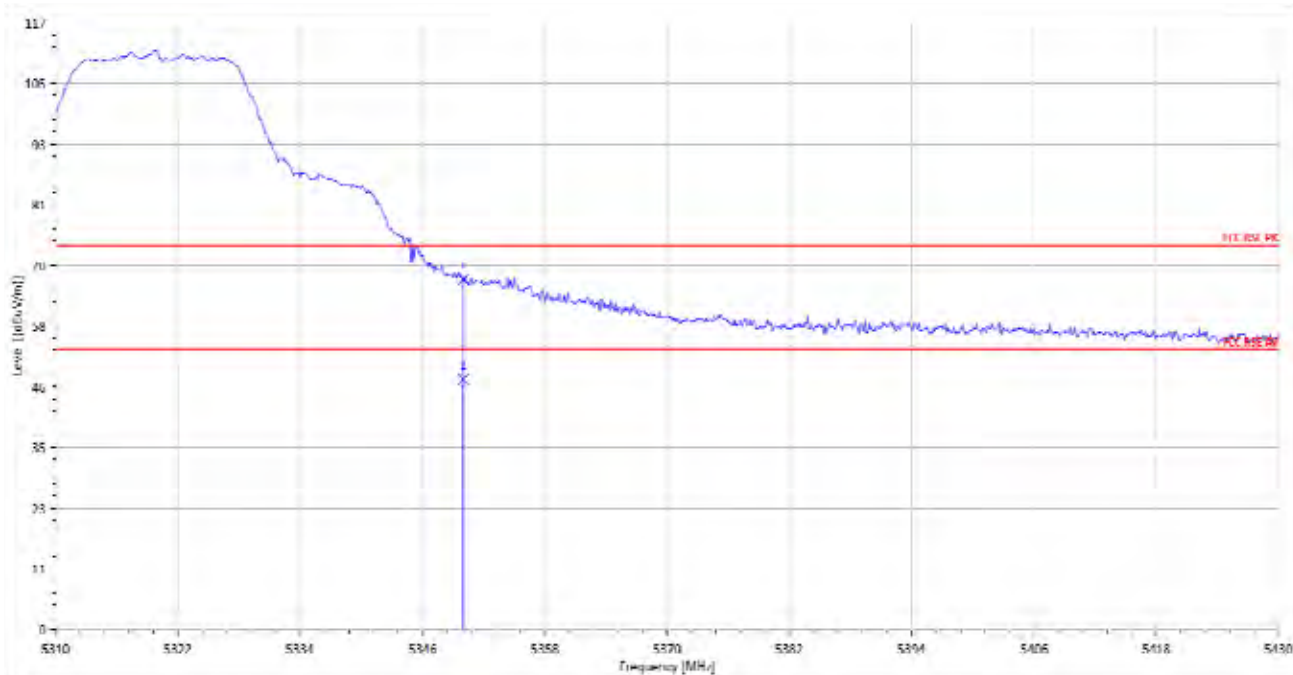
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| | | | |
|-----------------------|----------------|--------------------------|---------------------|
| Operation Band | :802.11 a | Test Date | :2015-02-22 |
| Fundamental Frequency | :5320 MHz | Temp./Humi. | :25.5 deg_C / 63 RH |
| Operation Mode | :Bandedge HIGH | Engineer | :Vito |
| EUT Pol. | :E2 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. MHz | Detector Mode | Note F/H/E/S | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5350.00 | Peak | E | 56.20 | 11.30 | 67.50 | 74.00 | -6.50 |
| 5350.00 | Average | E | 36.88 | 11.30 | 48.18 | 54.00 | -5.82 |

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Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

| | | | |
|-----------------------|--------------|--------------------------|---------------------|
| Operation Band | :802.11 n20M | Test Date | :2015-02-22 |
| Fundamental Frequency | :5260 MHz | Temp./Humi. | :16.7 deg_C / 52 RH |
| Operation Mode | :TX LOW | Engineer | :Vito |
| 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 71.71 | Peak | S | 51.77 | -27.63 | 24.14 | 40.00 | -15.86 |
| 101.78 | Peak | S | 51.83 | -23.54 | 28.29 | 43.50 | -15.21 |
| 216.24 | Peak | S | 38.16 | -22.96 | 15.20 | 46.00 | -30.80 |
| 312.27 | Peak | S | 40.07 | -18.66 | 21.41 | 46.00 | -24.59 |
| 452.92 | Peak | S | 38.88 | -14.83 | 24.06 | 46.00 | -21.94 |
| 528.58 | Peak | S | 41.20 | -13.16 | 28.03 | 46.00 | -17.97 |
| 10520.00 | Peak | H | 36.71 | 19.25 | 55.96 | 68.30 | -12.34 |
| 15780.00 | Peak | H | - | | | | |
| 21040.00 | Peak | H | - | | | | |
| 26300.00 | Peak | H | - | | | | |
| 31560.00 | Peak | H | - | | | | |
| 36820.00 | Peak | H | - | | | | |

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Operation Band :802.11 n20M Test Date :2015-02-22
 Fundamental Frequency :5260 MHz Temp./Humi. :16.7 deg_C / 52 RH
 Operation Mode :TX LOW Engineer :Vito
 EUT Pol. :E2 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 71.71 | Peak | S | 51.49 | -27.63 | 23.86 | 40.00 | -16.14 |
| 352.04 | Peak | S | 41.03 | -17.31 | 23.71 | 46.00 | -22.29 |
| 528.58 | Peak | S | 40.59 | -13.16 | 27.43 | 46.00 | -18.57 |
| 624.61 | Peak | S | 39.46 | -12.15 | 27.31 | 46.00 | -18.69 |
| 672.14 | Peak | S | 39.87 | -11.68 | 28.19 | 46.00 | -17.81 |
| 720.64 | Peak | S | 38.97 | -10.77 | 28.20 | 46.00 | -17.80 |
| 10520.00 | Peak | H | 37.19 | 19.25 | 56.44 | 68.30 | -11.86 |
| 15780.00 | Peak | H | - | | | | |
| 21040.00 | Peak | H | - | | | | |
| 26300.00 | Peak | H | - | | | | |
| 31560.00 | Peak | H | - | | | | |
| 36820.00 | Peak | H | - | | | | |

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| | | | |
|-----------------------|--------------|--------------------------|---------------------|
| Operation Band | :802.11 n20M | Test Date | :2015-02-22 |
| Fundamental Frequency | :5300 MHz | Temp./Humi. | :16.7 deg_C / 52 RH |
| Operation Mode | :TX MID | Engineer | :Vito |
| 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 100.81 | Peak | S | 50.34 | -23.69 | 26.66 | 43.50 | -16.84 |
| 288.02 | Peak | S | 41.05 | -19.45 | 21.61 | 46.00 | -24.39 |
| 312.27 | Peak | S | 39.94 | -18.66 | 21.27 | 46.00 | -24.73 |
| 445.16 | Peak | S | 37.30 | -15.18 | 22.12 | 46.00 | -23.88 |
| 503.36 | Peak | S | 38.65 | -14.15 | 24.50 | 46.00 | -21.50 |
| 528.58 | Peak | S | 36.21 | -13.16 | 23.05 | 46.00 | -22.95 |
| 10600.00 | Peak | H | 36.72 | 19.38 | 56.10 | 74.00 | -17.90 |
| 10600.00 | Average | H | 24.13 | 19.38 | 43.51 | 54.00 | -10.49 |
| 15900.00 | Peak | H | - | | | | |
| 21200.00 | Peak | H | - | | | | |
| 26500.00 | Peak | H | - | | | | |
| 31800.00 | Peak | H | - | | | | |
| 37100.00 | Peak | H | - | | | | |

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Operation Band :802.11 n20M Test Date :2015-02-22
 Fundamental Frequency :5300 MHz Temp./Humi. :16.7 deg_C / 52 RH
 Operation Mode :TX MID Engineer :Vito
 EUT Pol. :E2 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 71.71 | Peak | S | 50.35 | -27.63 | 22.72 | 40.00 | -17.28 |
| 101.78 | Peak | S | 46.59 | -23.54 | 23.04 | 43.50 | -20.46 |
| 170.65 | Peak | S | 45.91 | -23.79 | 22.11 | 43.50 | -21.39 |
| 528.58 | Peak | S | 40.35 | -13.16 | 27.19 | 46.00 | -18.81 |
| 647.89 | Peak | S | 39.81 | -11.08 | 28.74 | 46.00 | -17.26 |
| 672.14 | Peak | S | 40.09 | -11.68 | 28.41 | 46.00 | -17.59 |
| 10600.00 | Peak | H | 36.42 | 19.38 | 55.79 | 74.00 | -18.21 |
| 10600.00 | Average | H | 24.15 | 19.38 | 43.53 | 54.00 | -10.47 |
| 15900.00 | Peak | H | - | | | | |
| 21200.00 | Peak | H | - | | | | |
| 26500.00 | Peak | H | - | | | | |
| 31800.00 | Peak | H | - | | | | |
| 37100.00 | Peak | H | - | | | | |

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Operation Band :802.11 n20M Test Date :2015-02-22
 Fundamental Frequency :5320 MHz Temp./Humi. :16.7 deg_C / 52 RH
 Operation Mode :TX HIGH Engineer :Vito
 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 71.71 | Peak | S | 49.74 | -27.63 | 22.12 | 40.00 | -17.88 |
| 101.78 | Peak | S | 54.06 | -23.54 | 30.52 | 43.50 | -12.98 |
| 312.27 | Peak | S | 39.31 | -18.66 | 20.65 | 46.00 | -25.35 |
| 359.80 | Peak | S | 33.31 | -17.16 | 16.15 | 46.00 | -29.85 |
| 452.92 | Peak | S | 36.77 | -14.83 | 21.95 | 46.00 | -24.05 |
| 503.36 | Peak | S | 37.54 | -14.15 | 23.40 | 46.00 | -22.60 |
| 10640.00 | Peak | H | 37.12 | 19.28 | 56.40 | 74.00 | -17.60 |
| 10640.00 | Average | H | 24.32 | 19.28 | 43.60 | 54.00 | -10.40 |
| 15960.00 | Peak | H | - | | | | |
| 21280.00 | Peak | H | - | | | | |
| 26600.00 | Peak | H | - | | | | |
| 31920.00 | Peak | H | - | | | | |
| 37240.00 | Peak | H | - | | | | |

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f (886-2) 2298-0488

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Operation Band :802.11 n20M Test Date :2015-02-22
 Fundamental Frequency :5320 MHz Temp./Humi. :16.7 deg_C / 52 RH
 Operation Mode :TX HIGH Engineer :Vito
 EUT Pol. :E2 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 101.78 | Peak | S | 51.35 | -23.54 | 27.81 | 43.50 | -15.69 |
| 110.51 | Peak | S | 51.43 | -22.26 | 29.17 | 43.50 | -14.33 |
| 125.06 | Peak | S | 56.36 | -21.38 | 34.98 | 43.50 | -8.52 |
| 528.58 | Peak | S | 40.57 | -13.16 | 27.41 | 46.00 | -18.59 |
| 647.89 | Peak | S | 37.42 | -11.08 | 26.34 | 46.00 | -19.66 |
| 720.64 | Peak | S | 38.56 | -10.77 | 27.79 | 46.00 | -18.21 |
| 10640.00 | Peak | H | 36.66 | 19.28 | 55.94 | 74.00 | -18.06 |
| 10640.00 | Average | H | 24.10 | 19.28 | 43.38 | 54.00 | -10.62 |
| 15960.00 | Peak | H | - | | | | |
| 21280.00 | Peak | H | - | | | | |
| 26600.00 | Peak | H | - | | | | |
| 31920.00 | Peak | H | - | | | | |
| 37240.00 | Peak | H | - | | | | |

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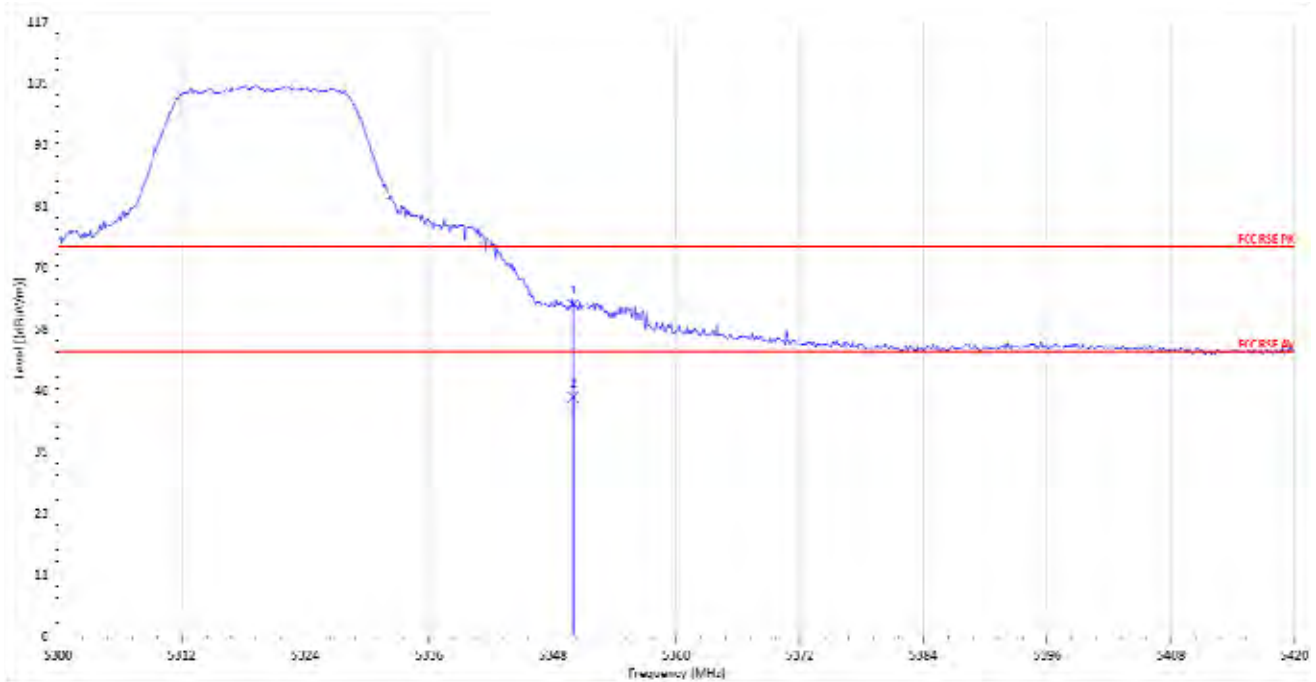
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| | | | |
|-----------------------|----------------|--------------------------|---------------------|
| Operation Band | :802.11 n20M | Test Date | :2015-02-22 |
| Fundamental Frequency | :5320 MHz | Temp./Humi. | :25.5 deg_C / 63 RH |
| Operation Mode | :Bandedge HIGH | Engineer | :Vito |
| 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.

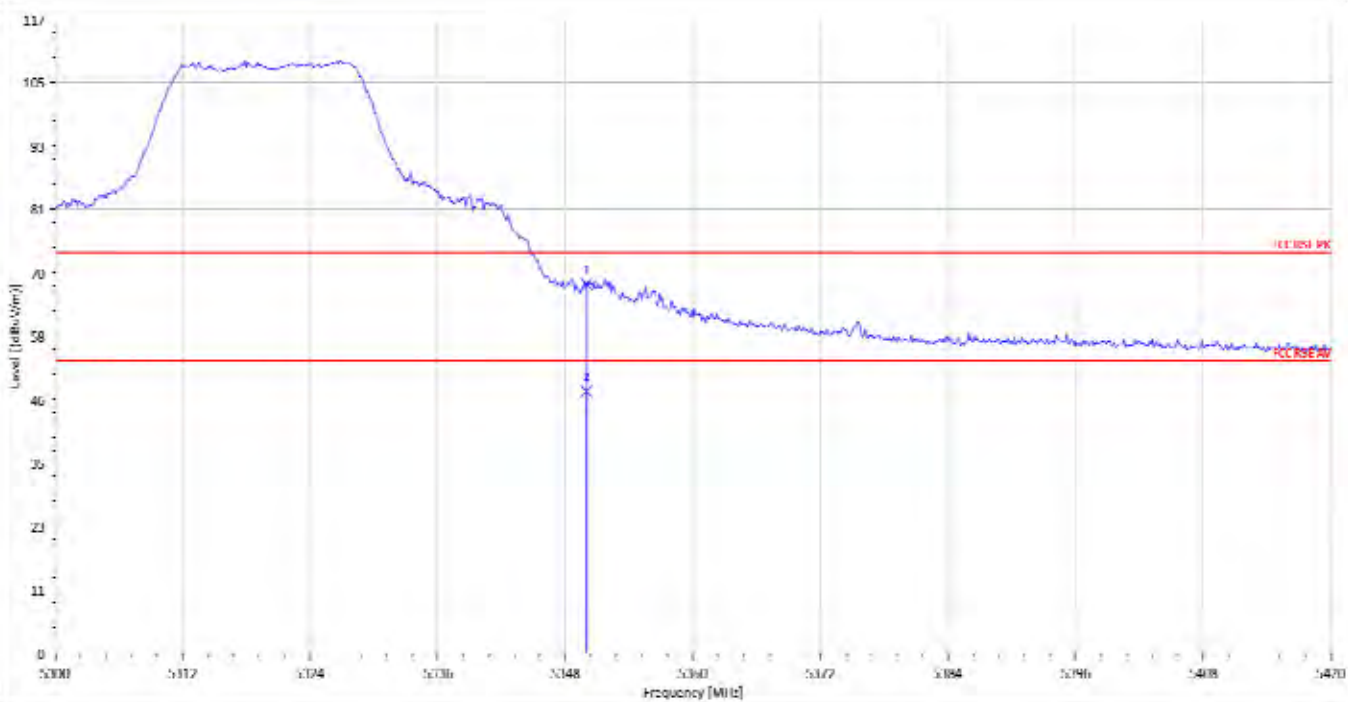
| Freq. MHz | Detector Mode | Note | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|------------------|------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5350.00 | Peak | E | 51.70 | 11.30 | 63.00 | 74.00 | -11.00 |
| 5350.00 | Average | E | 34.05 | 11.30 | 45.35 | 54.00 | -8.65 |

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| | | | |
|-----------------------|----------------|--------------------------|---------------------|
| Operation Band | :802.11 n20M | Test Date | :2015-02-22 |
| Fundamental Frequency | :5320 MHz | Temp./Humi. | :25.5 deg_C / 63 RH |
| Operation Mode | :Bandedge HIGH | Engineer | :Vito |
| EUT Pol. | :E2 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. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5350.00 | Peak | E | 56.81 | 11.30 | 68.11 | 74.00 | -5.89 |
| 5350.00 | Average | E | 37.03 | 11.30 | 48.33 | 54.00 | -5.67 |

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Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

| | | | |
|-----------------------|-----------|--------------------------|---------------------|
| Operation Band | :802.11 a | Test Date | :2015-02-22 |
| Fundamental Frequency | :5500 MHz | Temp./Humi. | :16.7 deg_C / 52 RH |
| Operation Mode | :TX LOW | Engineer | :Vito |
| 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 71.71 | Peak | S | 51.46 | -27.63 | 23.83 | 40.00 | -16.17 |
| 101.78 | Peak | S | 54.34 | -23.54 | 30.79 | 43.50 | -12.71 |
| 312.27 | Peak | S | 37.88 | -18.66 | 19.22 | 46.00 | -26.78 |
| 352.04 | Peak | S | 38.46 | -17.31 | 21.15 | 46.00 | -24.85 |
| 445.16 | Peak | S | 38.86 | -15.18 | 23.68 | 46.00 | -22.32 |
| 528.58 | Peak | S | 40.17 | -13.16 | 27.01 | 46.00 | -18.99 |
| 11000.00 | Peak | H | 36.76 | 20.02 | 56.77 | 74.00 | -17.23 |
| 11000.00 | Average | H | 24.66 | 20.02 | 44.68 | 54.00 | -9.32 |
| 16500.00 | Peak | H | - | | | | |
| 22000.00 | Peak | H | - | | | | |
| 27500.00 | Peak | H | - | | | | |
| 33000.00 | Peak | H | - | | | | |
| 38500.00 | Peak | H | - | | | | |

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f (886-2) 2298-0488

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Operation Band :802.11 a Test Date :2015-02-22
 Fundamental Frequency :5500 MHz Temp./Humi. :16.7 deg_C / 52 RH
 Operation Mode :TX LOW Engineer :Vito
 EUT Pol. :E2 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 71.71 | Peak | S | 50.51 | -27.63 | 22.88 | 40.00 | -17.12 |
| 178.41 | Peak | S | 44.26 | -24.30 | 19.97 | 43.50 | -23.53 |
| 312.27 | Peak | S | 39.42 | -18.66 | 20.76 | 46.00 | -25.24 |
| 528.58 | Peak | S | 37.76 | -13.16 | 24.60 | 46.00 | -21.40 |
| 672.14 | Peak | S | 39.50 | -11.68 | 27.81 | 46.00 | -18.19 |
| 720.64 | Peak | S | 39.19 | -10.77 | 28.42 | 46.00 | -17.58 |
| 11000.00 | Peak | H | 37.19 | 20.02 | 57.21 | 74.00 | -16.79 |
| 11000.00 | Average | H | 25.93 | 20.02 | 45.95 | 54.00 | -8.05 |
| 16500.00 | Peak | H | - | | | | |
| 22000.00 | Peak | H | - | | | | |
| 27500.00 | Peak | H | - | | | | |
| 33000.00 | Peak | H | - | | | | |
| 38500.00 | Peak | H | - | | | | |

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|-----------------------|-----------|--------------------------|---------------------|
| Operation Band | :802.11 a | Test Date | :2015-02-22 |
| Fundamental Frequency | :5580 MHz | Temp./Humi. | :16.7 deg_C / 52 RH |
| Operation Mode | :TX MID | Engineer | :Vito |
| 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 71.71 | Peak | S | 51.94 | -27.63 | 24.31 | 40.00 | -15.69 |
| 101.78 | Peak | S | 52.83 | -23.54 | 29.29 | 43.50 | -14.21 |
| 288.02 | Peak | S | 40.50 | -19.45 | 21.05 | 46.00 | -24.95 |
| 312.27 | Peak | S | 40.29 | -18.66 | 21.63 | 46.00 | -24.37 |
| 452.92 | Peak | S | 36.61 | -14.83 | 21.79 | 46.00 | -24.21 |
| 503.36 | Peak | S | 38.82 | -14.15 | 24.67 | 46.00 | -21.33 |
| 11160.00 | Peak | H | 37.21 | 20.38 | 57.59 | 74.00 | -16.41 |
| 11160.00 | Average | H | 24.34 | 20.38 | 44.72 | 54.00 | -9.28 |
| 16740.00 | Peak | H | - | | | | |
| 22320.00 | Peak | H | - | | | | |
| 27900.00 | Peak | H | - | | | | |
| 33480.00 | Peak | H | - | | | | |
| 39060.00 | Peak | H | - | | | | |

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|-----------------------|-----------|--------------------------|---------------------|
| Operation Band | :802.11 a | Test Date | :2015-02-22 |
| Fundamental Frequency | :5580 MHz | Temp./Humi. | :16.7 deg_C / 52 RH |
| Operation Mode | :TX MID | Engineer | :Vito |
| EUT Pol. | :E2 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 71.71 | Peak | S | 49.94 | -27.63 | 22.32 | 40.00 | -17.68 |
| 101.78 | Peak | S | 52.83 | -23.54 | 29.29 | 43.50 | -14.21 |
| 171.62 | Peak | S | 46.44 | -23.88 | 22.57 | 43.50 | -20.93 |
| 528.58 | Peak | S | 40.25 | -13.16 | 27.09 | 46.00 | -18.91 |
| 624.61 | Peak | S | 39.64 | -12.15 | 27.49 | 46.00 | -18.51 |
| 720.64 | Peak | S | 38.66 | -10.77 | 27.88 | 46.00 | -18.12 |
| 11160.00 | Peak | H | 36.36 | 20.38 | 56.74 | 74.00 | -17.26 |
| 11160.00 | Average | H | 24.81 | 20.38 | 45.19 | 54.00 | -8.81 |
| 16740.00 | Peak | H | - | | | | |
| 22320.00 | Peak | H | - | | | | |
| 27900.00 | Peak | H | - | | | | |
| 33480.00 | Peak | H | - | | | | |
| 39060.00 | Peak | H | - | | | | |

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|-----------------------|-----------|--------------------------|---------------------|
| Operation Band | :802.11 a | Test Date | :2015-02-22 |
| Fundamental Frequency | :5700 MHz | Temp./Humi. | :16.7 deg_C / 52 RH |
| Operation Mode | :TX HIGH | Engineer | :Vito |
| 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 71.71 | Peak | S | 53.40 | -27.63 | 25.77 | 40.00 | -14.23 |
| 101.78 | Peak | S | 53.36 | -23.54 | 29.82 | 43.50 | -13.68 |
| 187.14 | Peak | S | 42.53 | -24.24 | 18.29 | 43.50 | -25.21 |
| 288.02 | Peak | S | 40.74 | -19.45 | 21.30 | 46.00 | -24.70 |
| 445.16 | Peak | S | 38.31 | -15.18 | 23.13 | 46.00 | -22.87 |
| 528.58 | Peak | S | 40.64 | -13.16 | 27.48 | 46.00 | -18.52 |
| 11400.00 | Peak | H | 37.47 | 20.81 | 58.28 | 74.00 | -15.72 |
| 11400.00 | Average | H | 25.07 | 20.81 | 45.88 | 54.00 | -8.12 |
| 17100.00 | Peak | H | - | | | | |
| 22800.00 | Peak | H | - | | | | |
| 28500.00 | Peak | H | - | | | | |
| 34200.00 | Peak | H | - | | | | |
| 39900.00 | Peak | H | - | | | | |

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| | | | |
|-----------------------|-----------|--------------------------|---------------------|
| Operation Band | :802.11 a | Test Date | :2015-02-22 |
| Fundamental Frequency | :5700 MHz | Temp./Humi. | :16.7 deg_C / 52 RH |
| Operation Mode | :TX HIGH | Engineer | :Vito |
| EUT Pol. | :E2 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 71.71 | Peak | S | 49.63 | -27.63 | 22.00 | 40.00 | -18.00 |
| 101.78 | Peak | S | 49.69 | -23.54 | 26.15 | 43.50 | -17.35 |
| 176.47 | Peak | S | 44.95 | -24.14 | 20.81 | 43.50 | -22.69 |
| 528.58 | Peak | S | 39.28 | -13.16 | 26.12 | 46.00 | -19.88 |
| 647.89 | Peak | S | 37.92 | -11.08 | 26.84 | 46.00 | -19.16 |
| 720.64 | Peak | S | 38.07 | -10.77 | 27.30 | 46.00 | -18.70 |
| 11400.00 | Peak | H | 36.50 | 20.81 | 57.31 | 74.00 | -16.69 |
| 11400.00 | Average | H | 24.90 | 20.81 | 45.71 | 54.00 | -8.29 |
| 17100.00 | Peak | H | - | | | | |
| 22800.00 | Peak | H | - | | | | |
| 28500.00 | Peak | H | - | | | | |
| 34200.00 | Peak | H | - | | | | |
| 39900.00 | Peak | H | - | | | | |

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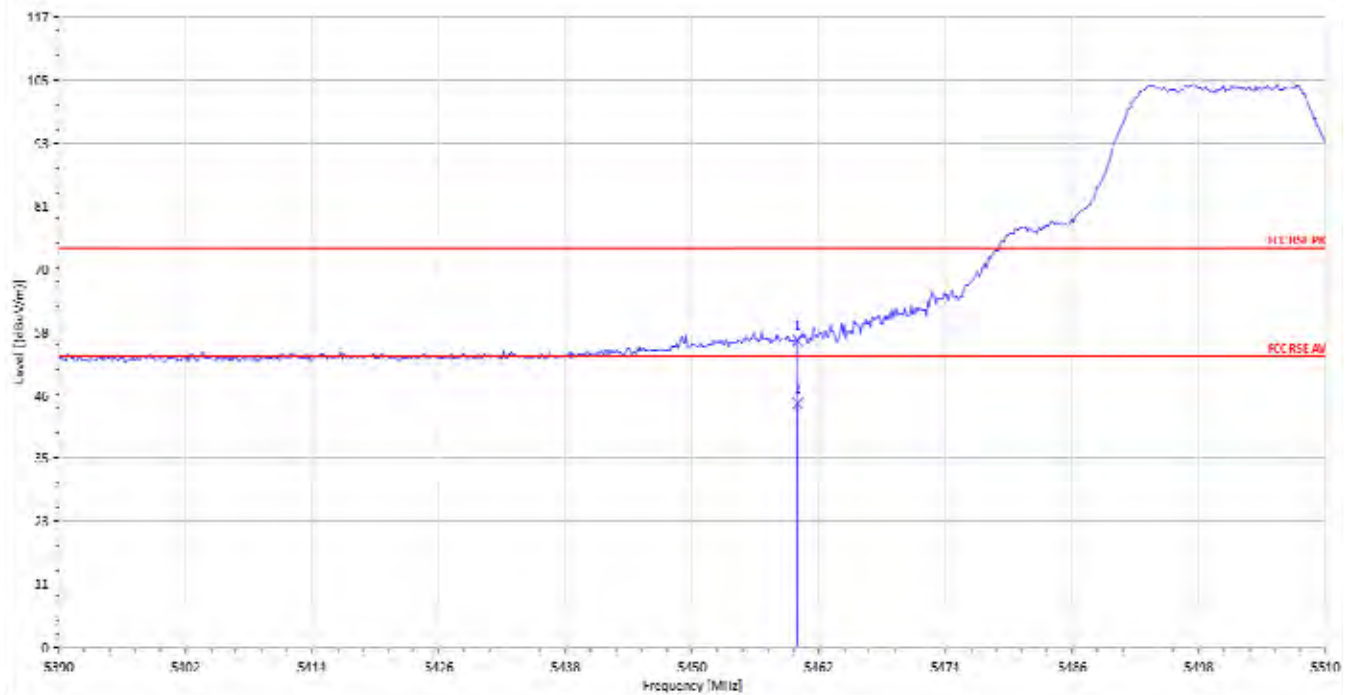
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| | | | |
|-----------------------|----------------|--------------------------|---------------------|
| Operation Band | :802.11 a | Test Date | :2015-02-22 |
| Fundamental Frequency | :5500 MHz | Temp./Humi. | :25.5 deg_C / 63 RH |
| Operation Mode | :Bandedge HIGH | Engineer | :Vito |
| 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.

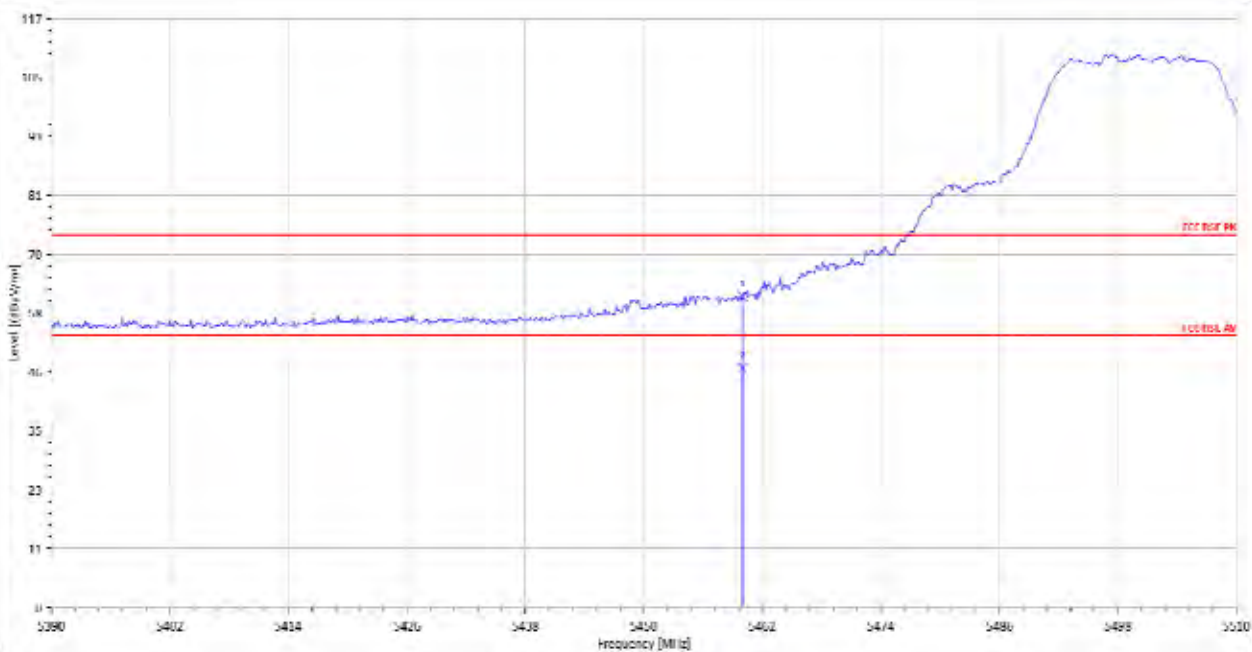
| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5460.00 | Peak | E | 45.48 | 11.46 | 56.94 | 74.00 | -17.06 |
| 5460.00 | Average | E | 33.76 | 11.46 | 45.22 | 54.00 | -8.78 |
| 5470.00 | Peak | E | 50.28 | 11.46 | 61.74 | 68.30 | -6.56 |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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| | | | |
|-----------------------|----------------|--------------------------|---------------------|
| Operation Band | :802.11 a | Test Date | :2015-02-22 |
| Fundamental Frequency | :5500 MHz | Temp./Humi. | :25.5 deg_C / 63 RH |
| Operation Mode | :Bandedge HIGH | Engineer | :Vito |
| EUT Pol. | :E2 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.

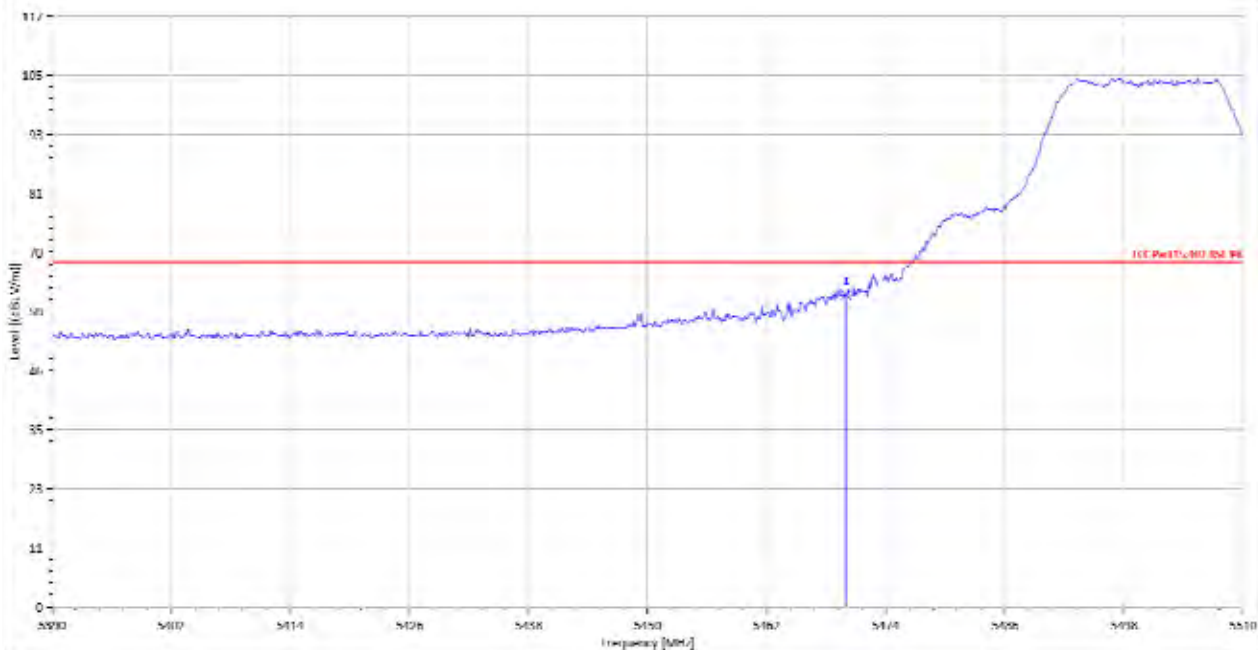
| Freq. MHz | Detector Mode | Note F/H/E/S | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5460.00 | Peak | E | 50.25 | 11.46 | 61.71 | 74.00 | -12.29 |
| 5460.00 | Average | E | 36.02 | 11.46 | 47.48 | 54.00 | -6.52 |
| 5469.08 | Peak | S | 55.89 | 11.46 | 67.34 | 68.30 | -0.96 |
| 5470.00 | Peak | E | 55.10 | 11.46 | 66.56 | 68.30 | -1.74 |

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| | | | |
|-----------------------|---------------|--------------------------|---------------------|
| Operation Band | :802.11 a | Test Date | :2015-02-22 |
| Fundamental Frequency | :5500 MHz | Temp./Humi. | :25.5 deg_C / 63 RH |
| Operation Mode | :Bandedge LOW | Engineer | :Vito |
| 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.

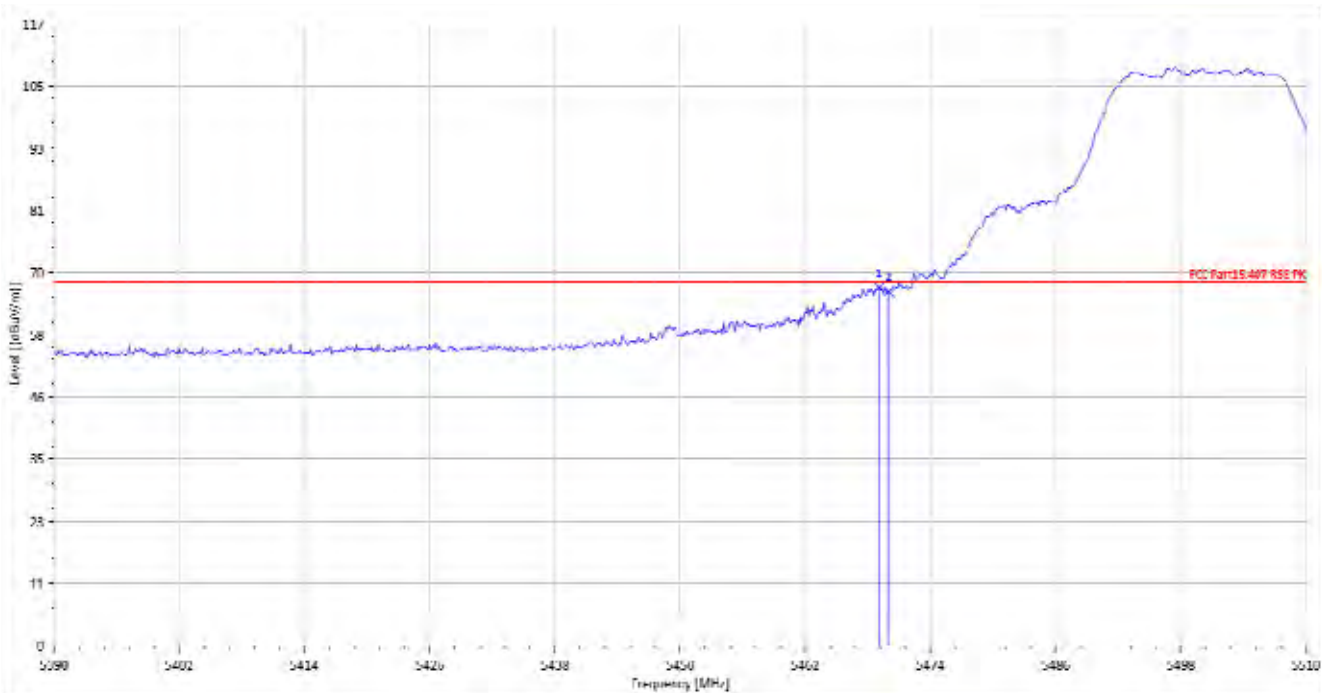
| Freq. MHz | Detector Mode | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5470.00 | Peak | E | 50.28 | 11.46 | 61.74 | 68.30 | -6.56 |

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| | | | |
|-----------------------|----------------|--------------------------|---------------------|
| Operation Band | :802.11 a | Test Date | :2015-02-22 |
| Fundamental Frequency | :5500 MHz | Temp./Humi. | :25.5 deg_C / 63 RH |
| Operation Mode | :Bandedge HIGH | Engineer | :Vito |
| EUT Pol. | :E2 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. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5469.08 | Peak | S | 55.89 | 11.46 | 67.34 | 68.30 | -0.96 |
| 5470.00 | Peak | E | 55.10 | 11.46 | 66.56 | 68.30 | -1.74 |

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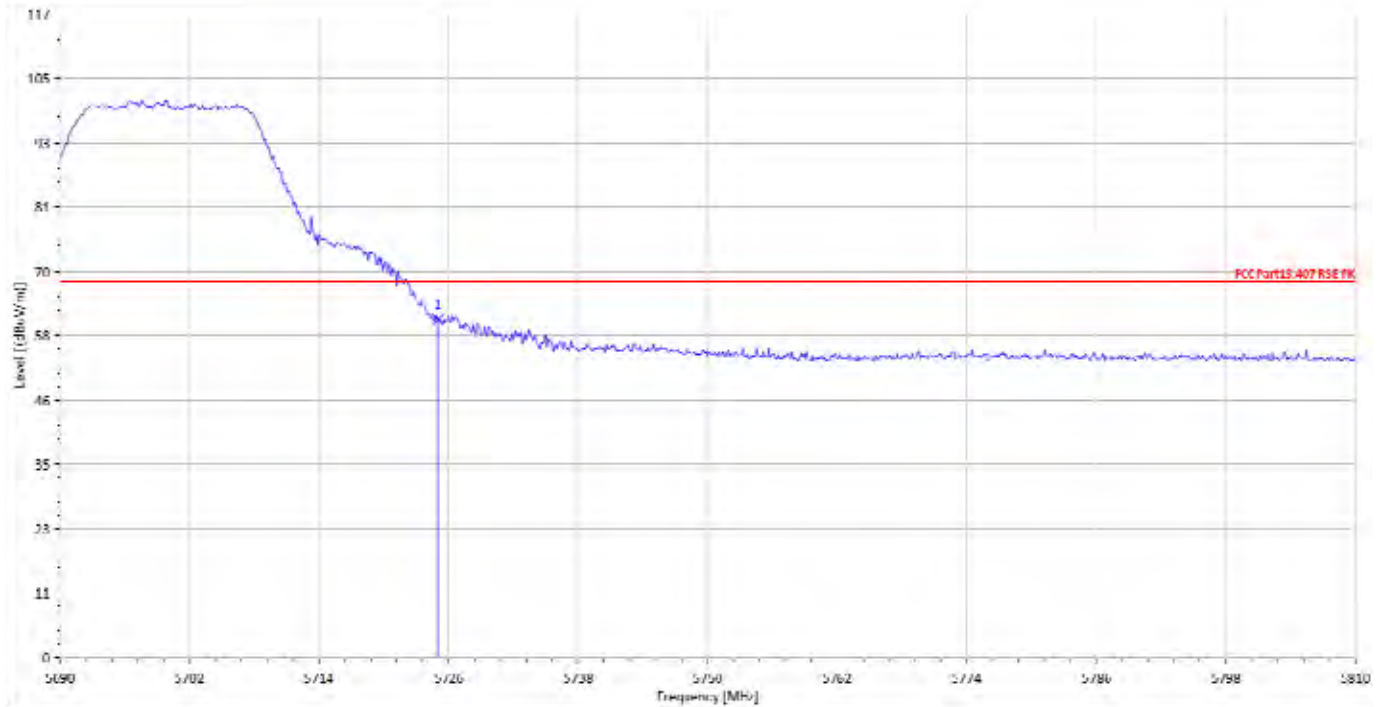
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| | | | |
|-----------------------|----------------|--------------------------|---------------------|
| Operation Band | :802.11 a | Test Date | :2015-02-22 |
| Fundamental Frequency | :5700 MHz | Temp./Humi. | :25.5 deg_C / 63 RH |
| Operation Mode | :Bandedge HIGH | Engineer | :Vito |
| 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. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5725.00 | Peak | E | 49.14 | 12.27 | 61.41 | 68.30 | -6.89 |

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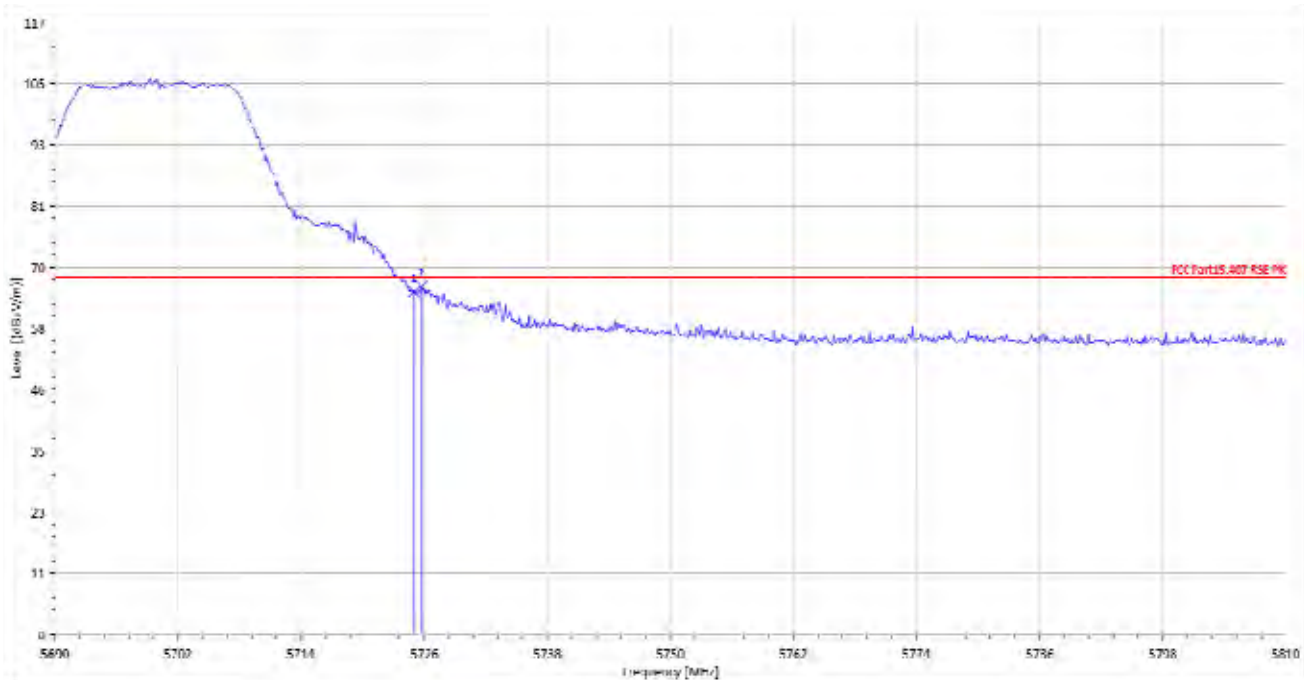
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|-----------------------|----------------|--------------------------|---------------------|
| Operation Band | :802.11 a | Test Date | :2015-02-22 |
| Fundamental Frequency | :5700 MHz | Temp./Humi. | :25.5 deg_C / 63 RH |
| Operation Mode | :Bandedge HIGH | Engineer | :Vito |
| EUT Pol. | :E2 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. MHz | Detector Mode | Note | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------|------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5725.00 | Peak | E | 53.14 | 12.27 | 65.41 | 68.30 | -2.89 |
| 5725.76 | Peak | S | 54.12 | 12.27 | 66.39 | 68.30 | -1.91 |

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Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz (MIMO)

| | | | |
|-----------------------|--------------|--------------------------|---------------------|
| Operation Band | :802.11 n20M | Test Date | :2015-02-22 |
| Fundamental Frequency | :5500 MHz | Temp./Humi. | :16.7 deg_C / 52 RH |
| Operation Mode | :TX LOW | Engineer | :Vito |
| 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 71.71 | Peak | S | 50.14 | -27.63 | 22.51 | 40.00 | -17.49 |
| 101.78 | Peak | S | 49.84 | -23.54 | 26.30 | 43.50 | -17.20 |
| 216.24 | Peak | S | 37.84 | -22.96 | 14.88 | 46.00 | -31.12 |
| 352.04 | Peak | S | 38.95 | -17.31 | 21.64 | 46.00 | -24.36 |
| 503.36 | Peak | S | 37.10 | -14.15 | 22.95 | 46.00 | -23.05 |
| 528.58 | Peak | S | 40.47 | -13.16 | 27.31 | 46.00 | -18.69 |
| 11000.00 | Peak | H | 37.33 | 20.02 | 57.35 | 74.00 | -16.65 |
| 11000.00 | Average | H | 24.56 | 20.02 | 44.58 | 54.00 | -9.42 |
| 16500.00 | Peak | H | - | | | | |
| 22000.00 | Peak | H | - | | | | |
| 27500.00 | Peak | H | - | | | | |
| 33000.00 | Peak | H | - | | | | |
| 38500.00 | Peak | H | - | | | | |

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Operation Band :802.11 n20M Test Date :2015-02-22
 Fundamental Frequency :5500 MHz Temp./Humi. :16.7 deg_C / 52 RH
 Operation Mode :TX LOW Engineer :Vito
 EUT Pol. :E2 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 71.71 | Peak | S | 49.53 | -27.63 | 21.91 | 40.00 | -18.09 |
| 170.65 | Peak | S | 45.27 | -23.79 | 21.48 | 43.50 | -22.02 |
| 352.04 | Peak | S | 40.21 | -17.31 | 22.90 | 46.00 | -23.10 |
| 528.58 | Peak | S | 41.73 | -13.16 | 28.56 | 46.00 | -17.44 |
| 647.89 | Peak | S | 40.14 | -11.08 | 29.06 | 46.00 | -16.94 |
| 672.14 | Peak | S | 40.45 | -11.68 | 28.77 | 46.00 | -17.23 |
| 11000.00 | Peak | H | 36.58 | 20.02 | 56.59 | 74.00 | -17.41 |
| 11000.00 | Average | H | 24.44 | 20.02 | 44.46 | 54.00 | -9.54 |
| 16500.00 | Peak | H | - | | | | |
| 22000.00 | Peak | H | - | | | | |
| 27500.00 | Peak | H | - | | | | |
| 33000.00 | Peak | H | - | | | | |
| 38500.00 | Peak | H | - | | | | |

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Operation Band :802.11 n20M Test Date :2015-02-22
 Fundamental Frequency :5580 MHz Temp./Humi. :16.7 deg_C / 52 RH
 Operation Mode :TX MID Engineer :Vito
 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 71.71 | Peak | S | 51.62 | -27.63 | 24.00 | 40.00 | -16.00 |
| 101.78 | Peak | S | 53.72 | -23.54 | 30.18 | 43.50 | -13.32 |
| 288.02 | Peak | S | 39.95 | -19.45 | 20.51 | 46.00 | -25.49 |
| 445.16 | Peak | S | 37.36 | -15.18 | 22.18 | 46.00 | -23.82 |
| 503.36 | Peak | S | 37.74 | -14.15 | 23.60 | 46.00 | -22.40 |
| 528.58 | Peak | S | 37.45 | -13.16 | 24.29 | 46.00 | -21.71 |
| 11160.00 | Peak | H | 38.64 | 20.38 | 59.02 | 74.00 | -14.98 |
| 11160.00 | Average | H | 24.26 | 20.38 | 44.64 | 54.00 | -9.36 |
| 16740.00 | Peak | H | - | | | | |
| 22320.00 | Peak | H | - | | | | |
| 27900.00 | Peak | H | - | | | | |
| 33480.00 | Peak | H | - | | | | |
| 39060.00 | Peak | H | - | | | | |

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Operation Band :802.11 n20M Test Date :2015-02-22
 Fundamental Frequency :5580 MHz Temp./Humi. :16.7 deg_C / 52 RH
 Operation Mode :TX MID Engineer :Vito
 EUT Pol. :E2 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 71.71 | Peak | S | 48.95 | -27.63 | 21.32 | 40.00 | -18.68 |
| 101.78 | Peak | S | 41.63 | -23.54 | 18.09 | 43.50 | -25.41 |
| 528.58 | Peak | S | 40.48 | -13.16 | 27.32 | 46.00 | -18.68 |
| 576.11 | Peak | S | 37.84 | -12.45 | 25.39 | 46.00 | -20.61 |
| 647.89 | Peak | S | 40.90 | -11.08 | 29.82 | 46.00 | -16.18 |
| 672.14 | Peak | S | 40.47 | -11.68 | 28.78 | 46.00 | -17.22 |
| 11160.00 | Peak | H | 37.39 | 20.38 | 57.77 | 74.00 | -16.23 |
| 11160.00 | Average | H | 24.57 | 20.38 | 44.95 | 54.00 | -9.05 |
| 16740.00 | Peak | H | - | | | | |
| 22320.00 | Peak | H | - | | | | |
| 27900.00 | Peak | H | - | | | | |
| 33480.00 | Peak | H | - | | | | |
| 39060.00 | Peak | H | - | | | | |

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Operation Band :802.11 n20M Test Date :2015-02-22
 Fundamental Frequency :5700 MHz Temp./Humi. :16.7 deg_C / 52 RH
 Operation Mode :TX HIGH Engineer :Vito
 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 62.98 | Peak | S | 49.38 | -28.27 | 21.11 | 40.00 | -18.89 |
| 71.71 | Peak | S | 52.05 | -27.63 | 24.43 | 40.00 | -15.57 |
| 101.78 | Peak | S | 53.85 | -23.54 | 30.31 | 43.50 | -13.19 |
| 452.92 | Peak | S | 39.26 | -14.83 | 24.43 | 46.00 | -21.57 |
| 503.36 | Peak | S | 38.27 | -14.15 | 24.12 | 46.00 | -21.88 |
| 528.58 | Peak | S | 41.26 | -13.16 | 28.10 | 46.00 | -17.90 |
| 11400.00 | Peak | H | 37.41 | 20.81 | 58.22 | 74.00 | -15.78 |
| 11400.00 | Average | H | 24.59 | 20.81 | 45.40 | 54.00 | -8.60 |
| 17100.00 | Peak | H | - | | | | |
| 22800.00 | Peak | H | - | | | | |
| 28500.00 | Peak | H | - | | | | |
| 34200.00 | Peak | H | - | | | | |
| 39900.00 | Peak | H | - | | | | |

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Operation Band :802.11 n20M Test Date :2015-02-22
 Fundamental Frequency :5700 MHz Temp./Humi. :16.7 deg_C / 52 RH
 Operation Mode :TX HIGH Engineer :Vito
 EUT Pol. :E2 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 71.71 | Peak | S | 50.04 | -27.63 | 22.41 | 40.00 | -17.59 |
| 101.78 | Peak | S | 50.60 | -23.54 | 27.06 | 43.50 | -16.44 |
| 528.58 | Peak | S | 40.29 | -13.16 | 27.13 | 46.00 | -18.87 |
| 624.61 | Peak | S | 38.53 | -12.15 | 26.38 | 46.00 | -19.62 |
| 672.14 | Peak | S | 39.68 | -11.68 | 27.99 | 46.00 | -18.01 |
| 720.64 | Peak | S | 37.86 | -10.77 | 27.09 | 46.00 | -18.91 |
| 11400.00 | Peak | H | 36.71 | 20.81 | 57.52 | 74.00 | -16.48 |
| 11400.00 | Average | H | 24.43 | 20.81 | 45.24 | 54.00 | -8.76 |
| 17100.00 | Peak | H | - | | | | |
| 22800.00 | Peak | H | - | | | | |
| 28500.00 | Peak | H | - | | | | |
| 34200.00 | Peak | H | - | | | | |
| 39900.00 | Peak | H | - | | | | |

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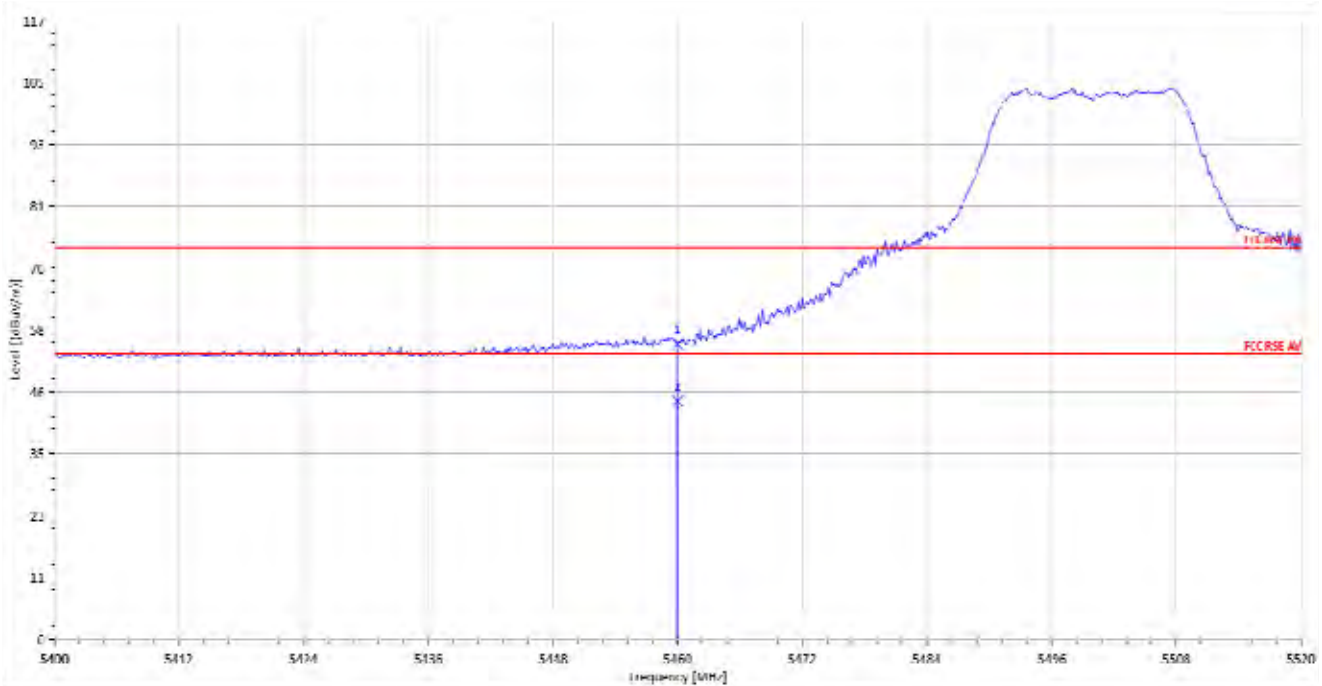
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|-----------------------|---------------|--------------------------|---------------------|
| Operation Band | :802.11 n20M | Test Date | :2015-02-22 |
| Fundamental Frequency | :5500 MHz | Temp./Humi. | :25.5 deg_C / 63 RH |
| Operation Mode | :Bandedge LOW | Engineer | :Vito |
| 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. MHz | Detector Mode | Note F/H/E/S | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5460.00 | Peak | E | 44.36 | 11.46 | 55.82 | 74.00 | -18.18 |
| 5460.00 | Average | E | 33.57 | 11.46 | 45.03 | 54.00 | -8.97 |

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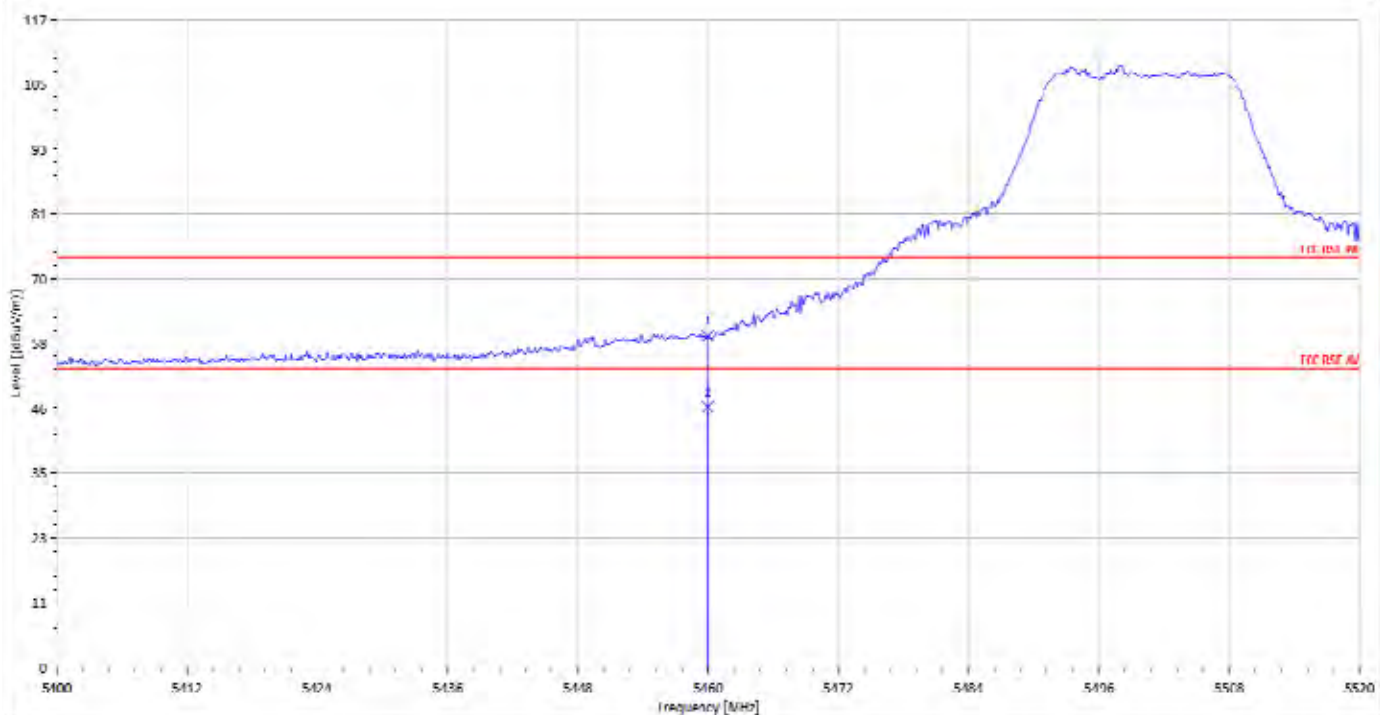
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|-----------------------|---------------|--------------------------|---------------------|
| Operation Band | :802.11 n20M | Test Date | :2015-02-22 |
| Fundamental Frequency | :5500 MHz | Temp./Humi. | :25.5 deg_C / 63 RH |
| Operation Mode | :Bandedge LOW | Engineer | :Vito |
| EUT Pol. | :E2 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. MHz | Detector Mode | Note F/H/E/S | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5460.00 | Peak | E | 48.37 | 11.46 | 59.83 | 74.00 | -14.17 |
| 5460.00 | Average | E | 35.56 | 11.46 | 47.02 | 54.00 | -6.98 |

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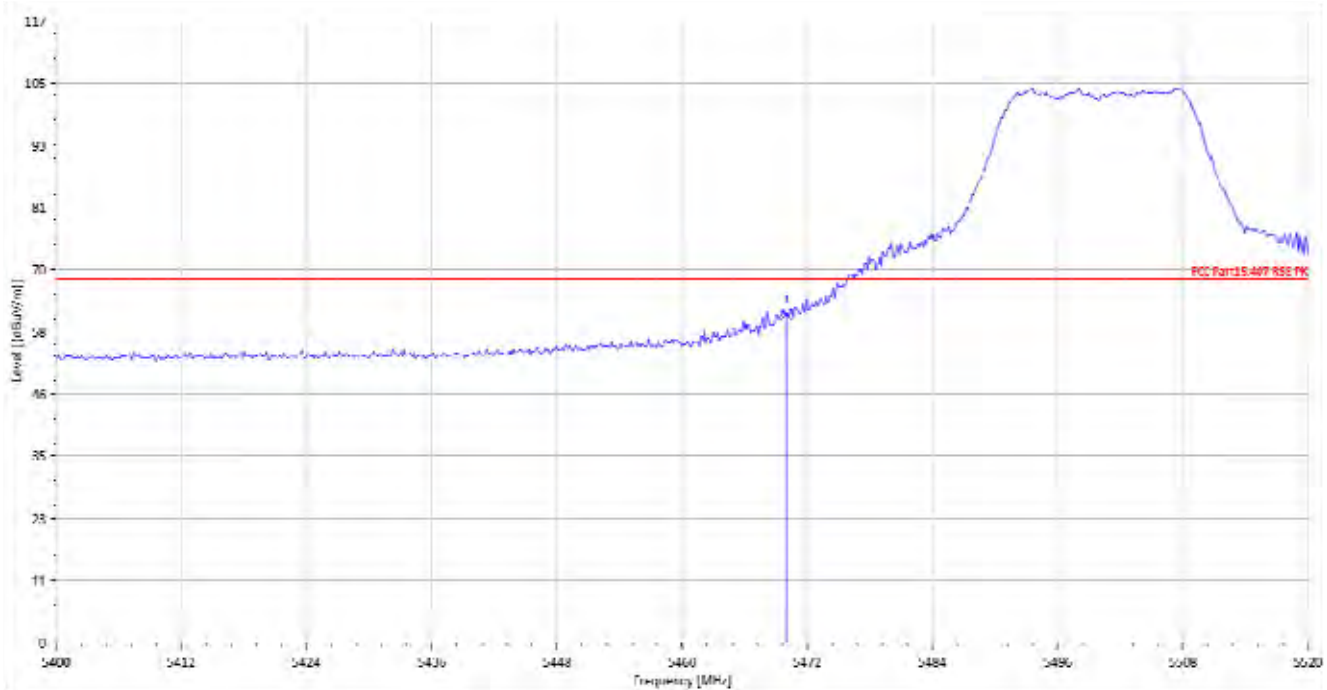
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|-----------------------|---------------|--------------------------|---------------------|
| Operation Band | :802.11 n20M | Test Date | :2015-02-22 |
| Fundamental Frequency | :5500 MHz | Temp./Humi. | :25.5 deg_C / 63 RH |
| Operation Mode | :Bandedge LOW | Engineer | :Vito |
| 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.

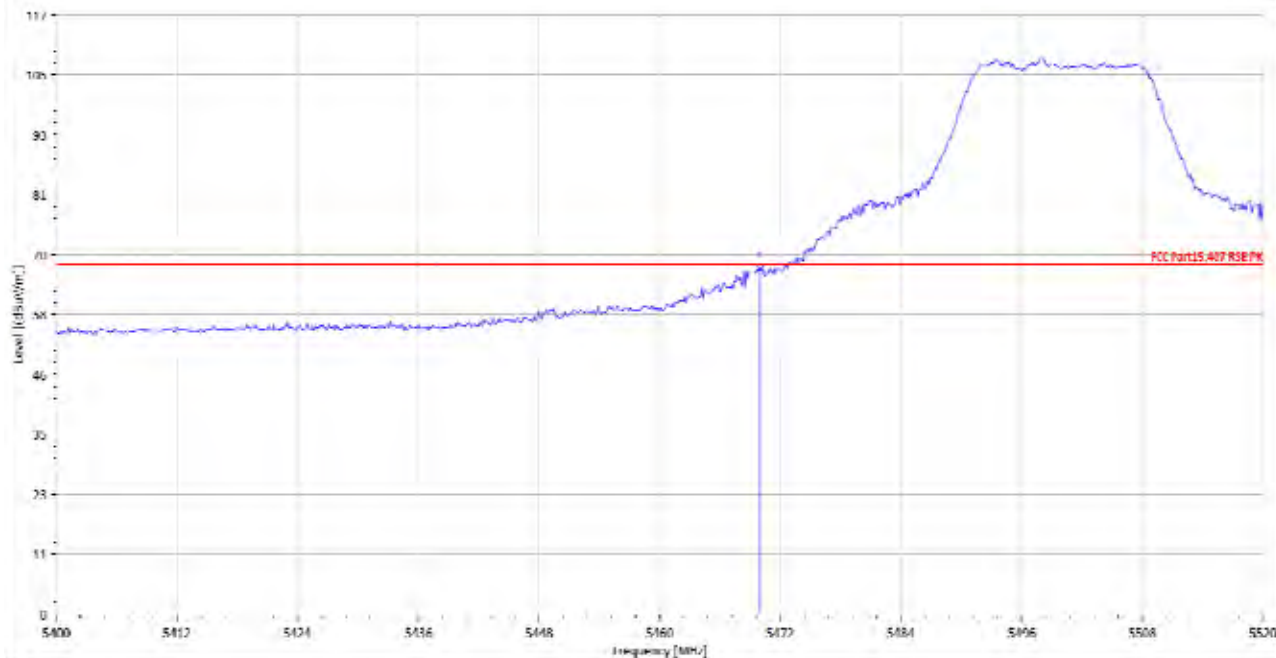
| Freq. MHz | Detector Mode | Note | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|------------------|------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5470.00 | Peak | E | 50.36 | 11.46 | 61.82 | 68.30 | -6.48 |

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|-----------------------|---------------|--------------------------|---------------------|
| Operation Band | :802.11 n20M | Test Date | :2015-02-22 |
| Fundamental Frequency | :5500 MHz | Temp./Humi. | :25.5 deg_C / 63 RH |
| Operation Mode | :Bandedge LOW | Engineer | :Vito |
| EUT Pol. | :E2 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. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5470.00 | Peak | E | 56.03 | 11.46 | 67.48 | 68.30 | -0.82 |

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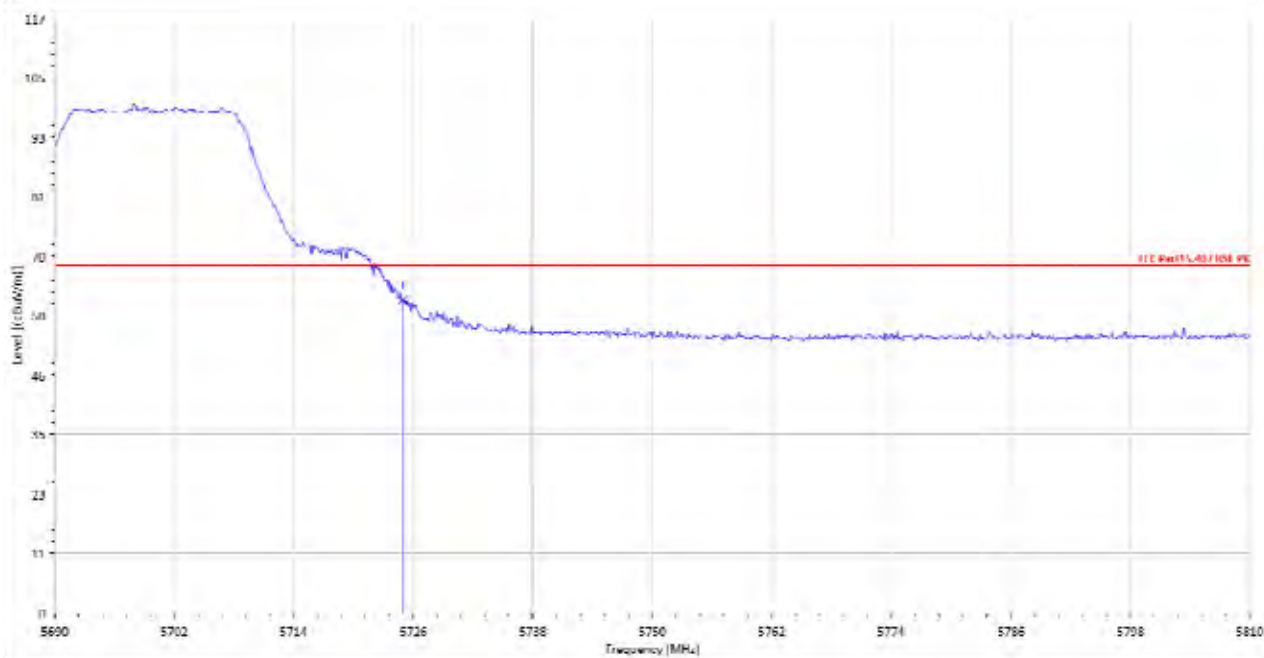
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| | | | |
|-----------------------|----------------|--------------------------|---------------------|
| Operation Band | :802.11 n20M | Test Date | :2015-02-22 |
| Fundamental Frequency | :5700 MHz | Temp./Humi. | :25.5 deg_C / 63 RH |
| Operation Mode | :Bandedge HIGH | Engineer | :Vito |
| 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.

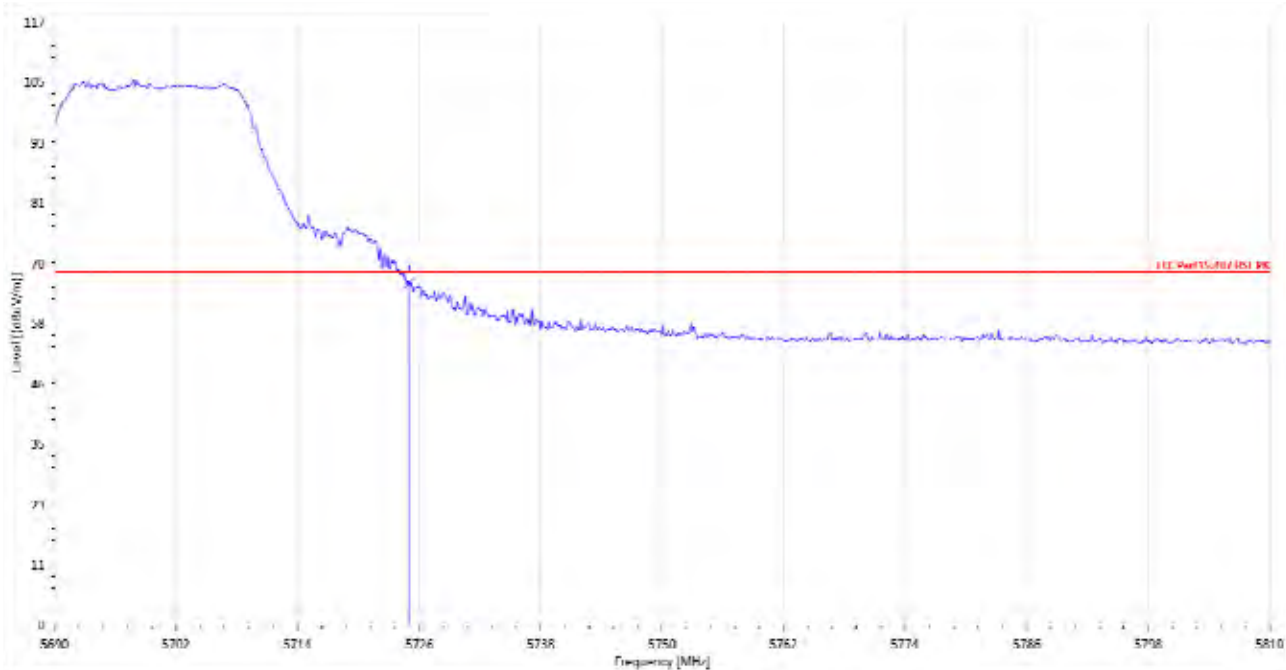
| Freq. MHz | Detector Mode | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5725.00 | Peak | E | 49.37 | 12.27 | 61.64 | 68.30 | -6.66 |

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| | | | |
|-----------------------|----------------|--------------------------|---------------------|
| Operation Band | :802.11 n20M | Test Date | :2015-02-22 |
| Fundamental Frequency | :5700 MHz | Temp./Humi. | :25.5 deg_C / 63 RH |
| Operation Mode | :Bandedge HIGH | Engineer | :Vito |
| EUT Pol. | :E2 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. MHz | Detector Mode | Note | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------|------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5725.00 | Peak | E | 53.93 | 12.27 | 66.20 | 68.30 | -2.10 |

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Radiated Spurious Emission Measurement Result 802.11a , 5725~5850 MHz

| | | | |
|-----------------------|-----------|--------------------------|---------------------|
| Operation Band | :802.11 a | Test Date | :2015-02-22 |
| Fundamental Frequency | :5745 MHz | Temp./Humi. | :16.7 deg_C / 52 RH |
| Operation Mode | :TX LOW | Engineer | :Vito |
| 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 71.71 | Peak | S | 52.38 | -27.63 | 24.75 | 40.00 | -15.25 |
| 101.78 | Peak | S | 54.15 | -23.54 | 30.61 | 43.50 | -12.89 |
| 312.27 | Peak | S | 38.92 | -18.66 | 20.26 | 46.00 | -25.74 |
| 352.04 | Peak | S | 39.32 | -17.31 | 22.01 | 46.00 | -23.99 |
| 452.92 | Peak | S | 38.69 | -14.83 | 23.86 | 46.00 | -22.14 |
| 528.58 | Peak | S | 40.39 | -13.16 | 27.23 | 46.00 | -18.77 |
| 11490.00 | Peak | H | 37.12 | 21.08 | 58.21 | 74.00 | -15.79 |
| 11490.00 | Average | H | 24.68 | 21.08 | 45.76 | 54.00 | -8.24 |
| 17235.00 | Peak | H | - | | | | |
| 22980.00 | Peak | H | - | | | | |
| 28725.00 | Peak | H | - | | | | |
| 34470.00 | Peak | H | - | | | | |

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|-----------------------|-----------|--------------------------|---------------------|
| Operation Band | :802.11 a | Test Date | :2015-02-22 |
| Fundamental Frequency | :5785 MHz | Temp./Humi. | :16.7 deg_C / 52 RH |
| Operation Mode | :TX MID | Engineer | :Vito |
| 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 71.71 | Peak | S | 49.84 | -27.63 | 22.21 | 40.00 | -17.79 |
| 101.78 | Peak | S | 53.07 | -23.54 | 29.53 | 43.50 | -13.97 |
| 352.04 | Peak | S | 39.11 | -17.31 | 21.80 | 46.00 | -24.20 |
| 445.16 | Peak | S | 38.92 | -15.18 | 23.74 | 46.00 | -22.26 |
| 503.36 | Peak | S | 37.65 | -14.15 | 23.50 | 46.00 | -22.50 |
| 528.58 | Peak | S | 39.89 | -13.16 | 26.72 | 46.00 | -19.28 |
| 11570.00 | Peak | H | 38.60 | 21.14 | 59.74 | 74.00 | -14.26 |
| 11570.00 | Average | H | 24.96 | 21.14 | 46.10 | 54.00 | -7.90 |
| 17355.00 | Peak | H | - | | | | |
| 23140.00 | Peak | H | - | | | | |
| 28925.00 | Peak | H | - | | | | |
| 34710.00 | Peak | H | - | | | | |

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|-----------------------|-----------|--------------------------|---------------------|
| Operation Band | :802.11 a | Test Date | :2015-02-22 |
| Fundamental Frequency | :5785 MHz | Temp./Humi. | :16.7 deg_C / 52 RH |
| Operation Mode | :TX MID | Engineer | :Vito |
| EUT Pol. | :E2 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 71.71 | Peak | S | 51.21 | -27.63 | 23.58 | 40.00 | -16.42 |
| 101.78 | Peak | S | 48.23 | -23.54 | 24.69 | 43.50 | -18.81 |
| 125.06 | Peak | S | 49.87 | -21.38 | 28.49 | 43.50 | -15.01 |
| 528.58 | Peak | S | 41.54 | -13.16 | 28.38 | 46.00 | -17.62 |
| 647.89 | Peak | S | 40.61 | -11.08 | 29.54 | 46.00 | -16.46 |
| 720.64 | Peak | S | 39.32 | -10.77 | 28.55 | 46.00 | -17.45 |
| 11570.00 | Peak | H | 37.63 | 21.14 | 58.77 | 74.00 | -15.23 |
| 11570.00 | Average | H | 24.87 | 21.14 | 46.01 | 54.00 | -7.99 |
| 17355.00 | Peak | H | - | | | | |
| 23140.00 | Peak | H | - | | | | |
| 28925.00 | Peak | H | - | | | | |
| 34710.00 | Peak | H | - | | | | |

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|-----------------------|-----------|--------------------------|---------------------|
| Operation Band | :802.11 a | Test Date | :2015-02-22 |
| Fundamental Frequency | :5825 MHz | Temp./Humi. | :16.7 deg_C / 52 RH |
| Operation Mode | :TX HIGH | Engineer | :Vito |
| 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 71.71 | Peak | S | 53.39 | -27.63 | 25.76 | 40.00 | -14.24 |
| 101.78 | Peak | S | 53.19 | -23.54 | 29.65 | 43.50 | -13.85 |
| 288.02 | Peak | S | 40.58 | -19.45 | 21.13 | 46.00 | -24.87 |
| 312.27 | Peak | S | 39.65 | -18.66 | 20.99 | 46.00 | -25.01 |
| 445.16 | Peak | S | 38.10 | -15.18 | 22.91 | 46.00 | -23.09 |
| 528.58 | Peak | S | 41.13 | -13.16 | 27.97 | 46.00 | -18.03 |
| 11650.00 | Peak | H | 37.30 | 21.27 | 58.57 | 74.00 | -15.43 |
| 11650.00 | Average | H | 24.97 | 21.27 | 46.24 | 54.00 | -7.76 |
| 17475.00 | Peak | H | - | | | | |
| 23300.00 | Peak | H | - | | | | |
| 29125.00 | Peak | H | - | | | | |
| 34950.00 | Peak | H | - | | | | |

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|-----------------------|-----------|--------------------------|---------------------|
| Operation Band | :802.11 a | Test Date | :2015-02-22 |
| Fundamental Frequency | :5825 MHz | Temp./Humi. | :16.7 deg_C / 52 RH |
| Operation Mode | :TX HIGH | Engineer | :Vito |
| EUT Pol. | :E2 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 71.71 | Peak | S | 52.38 | -27.63 | 24.75 | 40.00 | -15.25 |
| 101.78 | Peak | S | 48.04 | -23.54 | 24.50 | 43.50 | -19.00 |
| 169.68 | Peak | S | 43.31 | -23.70 | 19.61 | 43.50 | -23.89 |
| 528.58 | Peak | S | 41.24 | -13.16 | 28.08 | 46.00 | -17.92 |
| 647.89 | Peak | S | 40.39 | -11.08 | 29.32 | 46.00 | -16.68 |
| 720.64 | Peak | S | 39.32 | -10.77 | 28.55 | 46.00 | -17.45 |
| 11650.00 | Peak | H | 37.78 | 21.27 | 59.06 | 74.00 | -14.94 |
| 11650.00 | Average | H | 24.92 | 21.27 | 46.19 | 54.00 | -7.81 |
| 17475.00 | Peak | H | - | | | | |
| 23300.00 | Peak | H | - | | | | |
| 29125.00 | Peak | H | - | | | | |
| 34950.00 | Peak | H | - | | | | |

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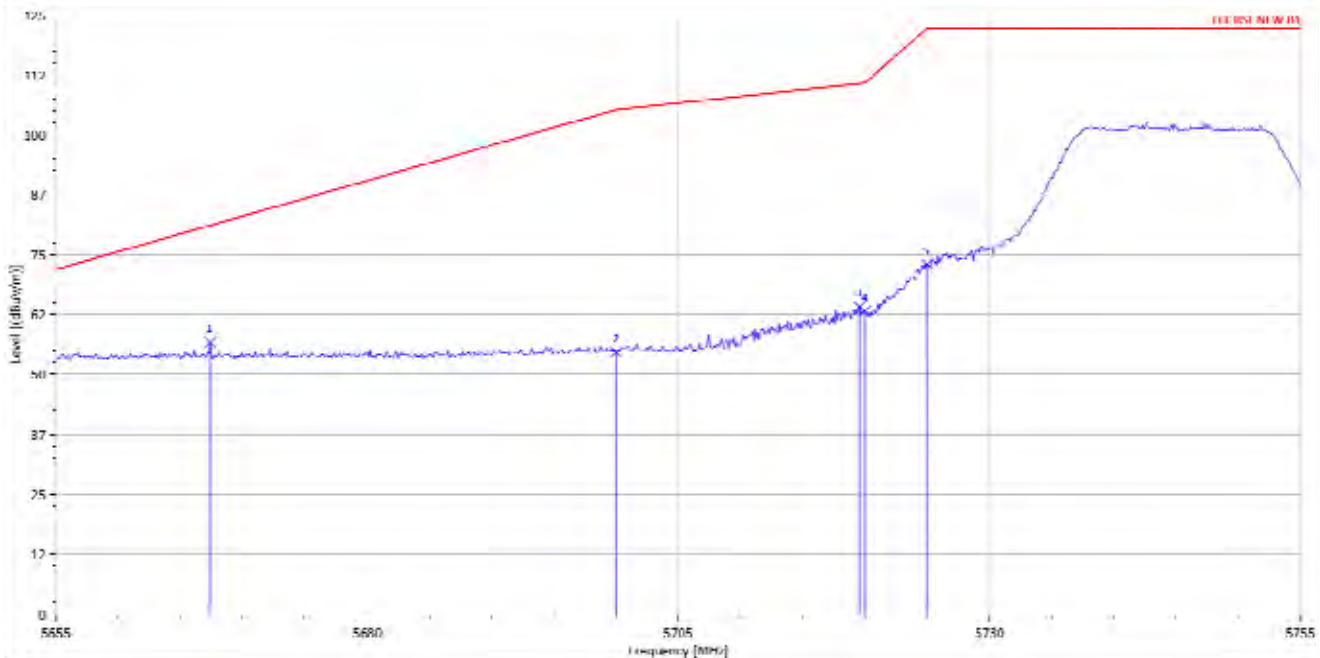
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|-----------------------|---------------|--------------------------|---------------------|
| Operation Band | :802.11 a | Test Date | :2015-02-22 |
| Fundamental Frequency | :5745 MHz | Temp./Humi. | :25.5 deg_C / 63 RH |
| Operation Mode | :Bandedge LOW | Engineer | :Vito |
| 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.

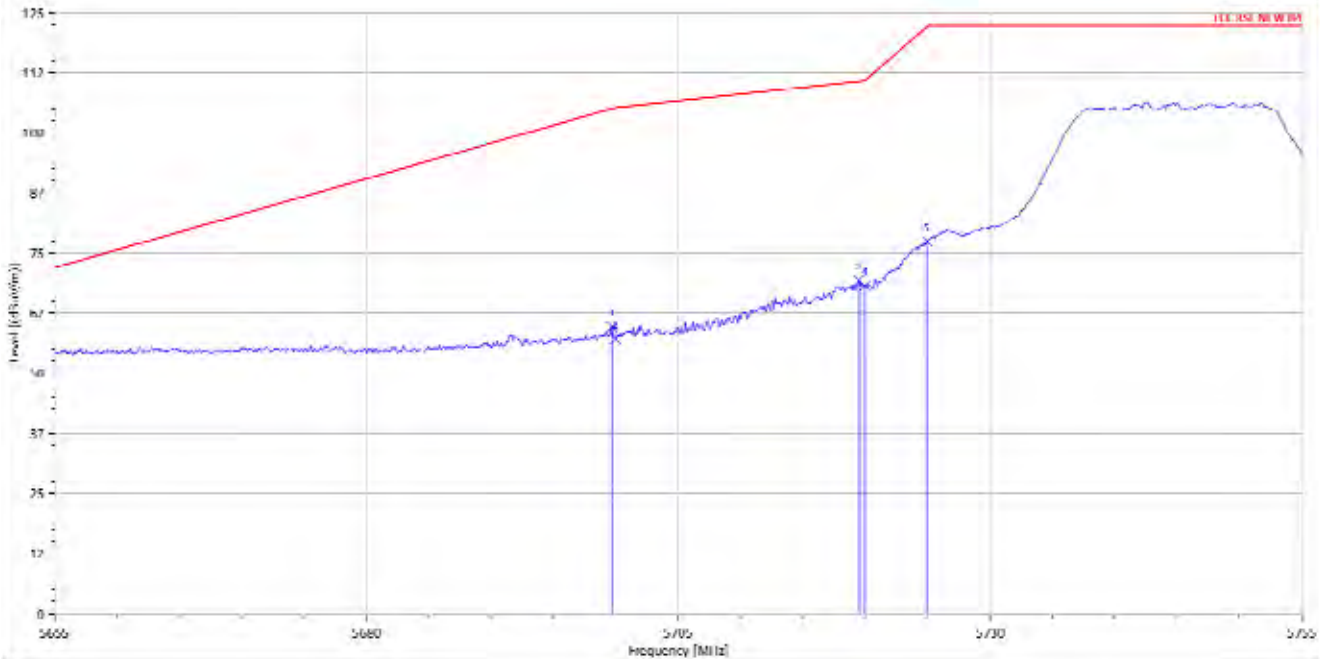
| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5667.40 | S | Peak | 44.73 | 11.91 | 56.64 | 81.10593 | -24.47 |
| 5700.00 | S | Peak | 42.47 | 12.16 | 54.63 | 105.23 | -50.60 |
| 5719.60 | S | Peak | 52.12 | 11.99 | 64.11 | 110.718 | -46.61 |
| 5720.00 | S | Peak | 51.20 | 11.99 | 63.19 | 110.83 | -47.64 |
| 5725.00 | E | Peak | 60.66 | 12.27 | 72.93 | 122.23 | -49.30 |

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| | | | |
|-----------------------|---------------|--------------------------|---------------------|
| Operation Band | :802.11 a | Test Date | :2015-02-22 |
| Fundamental Frequency | :5745 MHz | Temp./Humi. | :25.5 deg_C / 63 RH |
| Operation Mode | :Bandedge LOW | Engineer | :Vito |
| EUT Pol. | :E2 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.

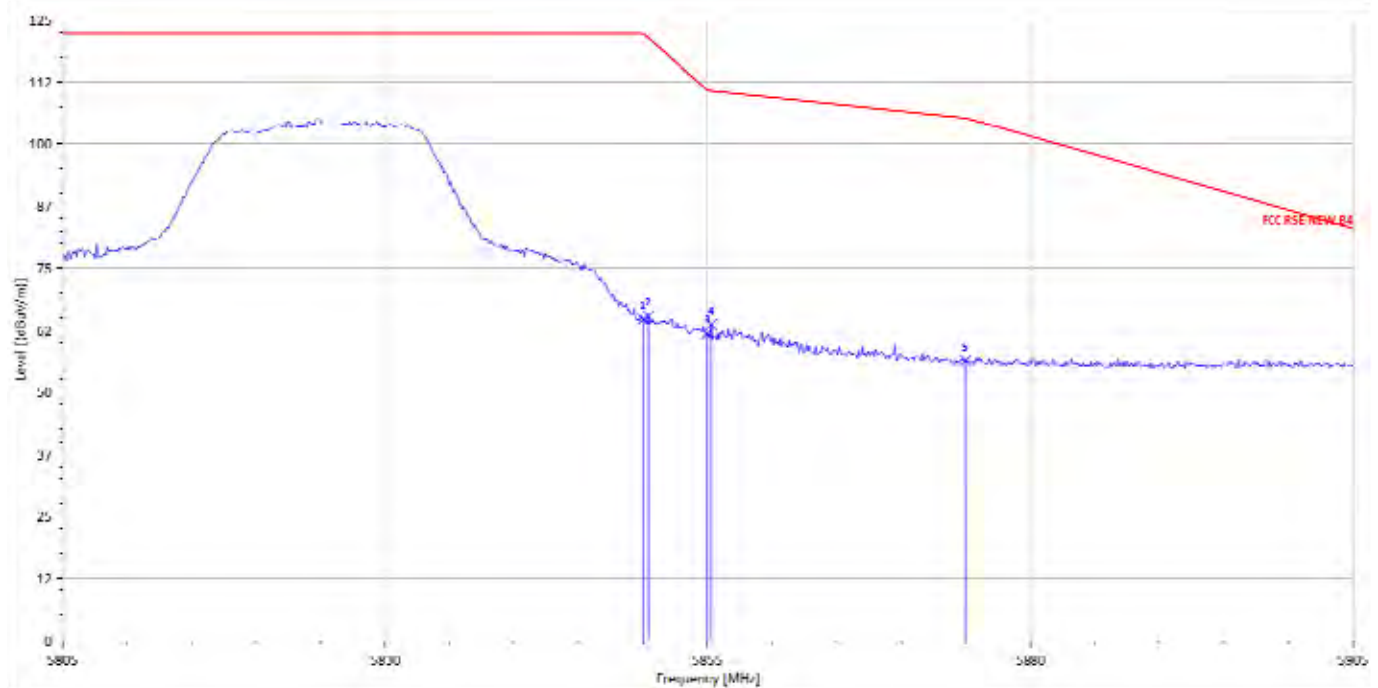
| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5699.70 | S | Peak | 47.51 | 12.17 | 59.68 | 105.0081 | -45.33 |
| 5700.00 | S | Peak | 45.01 | 12.16 | 57.17 | 105.23 | -48.06 |
| 5719.50 | S | Peak | 57.29 | 11.99 | 69.28 | 110.69 | -41.41 |
| 5720.00 | S | Peak | 56.13 | 11.99 | 68.12 | 110.83 | -42.71 |
| 5725.00 | E | Peak | 65.10 | 12.27 | 77.37 | 122.23 | -44.86 |

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| | | | |
|-----------------------|---------------|--------------------------|---------------------|
| Operation Band | :802.11 a | Test Date | :2015-02-22 |
| Fundamental Frequency | :5825 MHz | Temp./Humi. | :25.5 deg_C / 63 RH |
| Operation Mode | :Bandedge LOW | Engineer | :Vito |
| 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. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5850.00 | E | Peak | 52.12 | 12.61 | 64.73 | 122.23 | -57.50 |
| 5850.40 | S | Peak | 53.10 | 12.16 | 65.26 | 121.3182 | -56.06 |
| 5855.00 | S | Peak | 49.62 | 12.24 | 61.86 | 110.83 | -48.97 |
| 5855.30 | S | Peak | 51.36 | 12.24 | 63.61 | 110.7461 | -47.14 |
| 5875.00 | S | Peak | 43.98 | 12.28 | 56.26 | 105.23 | -48.97 |

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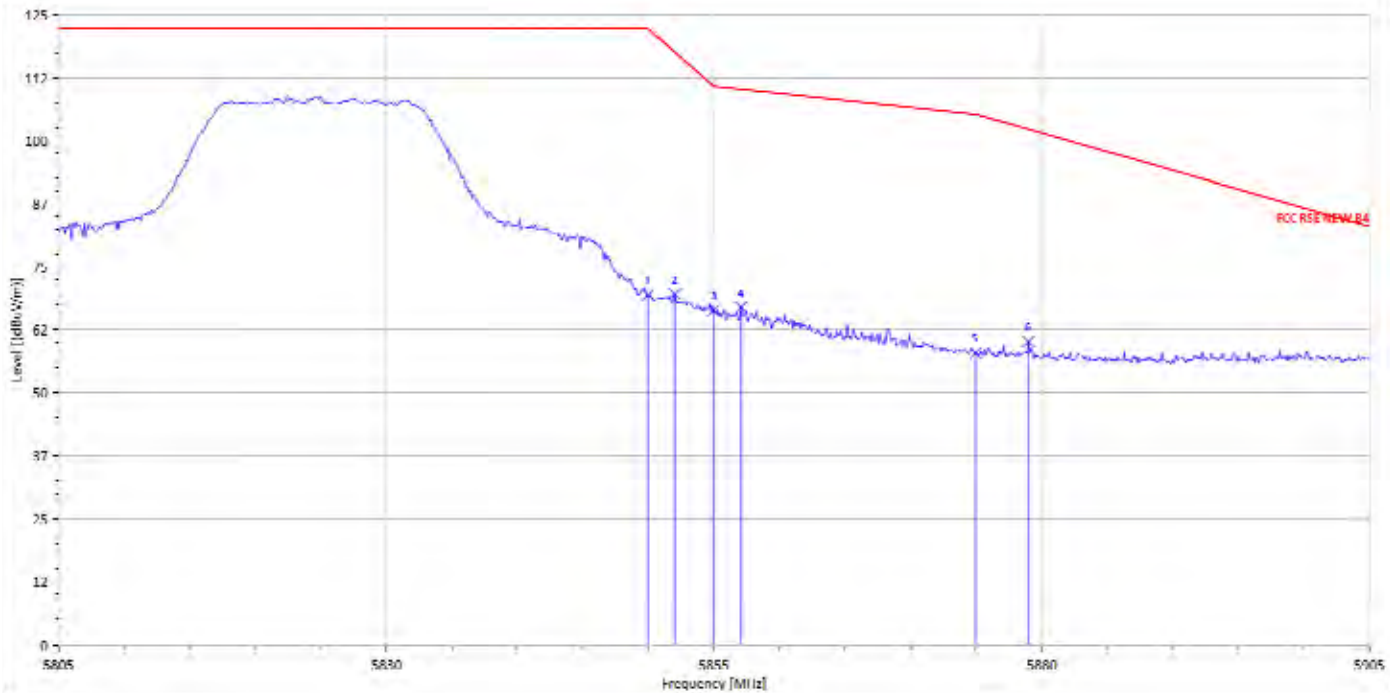
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| | | | |
|-----------------------|---------------|--------------------------|---------------------|
| Operation Band | :802.11 a | Test Date | :2015-02-22 |
| Fundamental Frequency | :5825 MHz | Temp./Humi. | :25.5 deg_C / 63 RH |
| Operation Mode | :Bandedge LOW | Engineer | :Vito |
| EUT Pol. | :E2 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. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5850.00 | E | Peak | 56.76 | 12.61 | 69.37 | 122.23 | -52.86 |
| 5852.00 | S | Peak | 57.34 | 12.18 | 69.52 | 117.67 | -48.15 |
| 5855.00 | S | Peak | 54.02 | 12.24 | 66.26 | 110.83 | -44.57 |
| 5857.10 | S | Peak | 54.61 | 12.28 | 66.89 | 110.242 | -43.35 |
| 5875.00 | S | Peak | 45.69 | 12.28 | 57.97 | 105.23 | -47.26 |
| 5879.00 | S | Peak | 47.94 | 12.26 | 60.19 | 102.27 | -42.08 |

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Radiated Spurious Emission Measurement Result 802.11n_HT20 , 5725~5850 MHz

| | | | |
|-----------------------|--------------|--------------------------|---------------------|
| Operation Band | :802.11 n20M | Test Date | :2015-02-22 |
| Fundamental Frequency | :5745 MHz | Temp./Humi. | :16.7 deg_C / 52 RH |
| Operation Mode | :TX LOW | Engineer | :Vito |
| 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 71.71 | Peak | S | 52.02 | -27.63 | 24.39 | 40.00 | -15.61 |
| 101.78 | Peak | S | 54.21 | -23.54 | 30.66 | 43.50 | -12.84 |
| 312.27 | Peak | S | 39.70 | -18.66 | 21.04 | 46.00 | -24.96 |
| 452.92 | Peak | S | 39.23 | -14.83 | 24.40 | 46.00 | -21.60 |
| 503.36 | Peak | S | 37.74 | -14.15 | 23.59 | 46.00 | -22.41 |
| 528.58 | Peak | S | 41.46 | -13.16 | 28.30 | 46.00 | -17.70 |
| 11490.00 | Peak | H | 38.21 | 21.08 | 59.29 | 74.00 | -14.71 |
| 11490.00 | Average | H | 24.63 | 21.08 | 45.71 | 54.00 | -8.29 |
| 17235.00 | Peak | H | - | | | | |
| 22980.00 | Peak | H | - | | | | |
| 28725.00 | Peak | H | - | | | | |
| 34470.00 | Peak | H | - | | | | |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Operation Band :802.11 n20M Test Date :2015-02-22
 Fundamental Frequency :5745 MHz Temp./Humi. :16.7 deg_C / 52 RH
 Operation Mode :TX LOW Engineer :Vito
 EUT Pol. :E2 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 101.78 | Peak | S | 46.82 | -23.54 | 23.28 | 43.50 | -20.22 |
| 170.65 | Peak | S | 45.46 | -23.79 | 21.67 | 43.50 | -21.83 |
| 528.58 | Peak | S | 37.22 | -13.16 | 24.06 | 46.00 | -21.94 |
| 624.61 | Peak | S | 38.48 | -12.15 | 26.33 | 46.00 | -19.67 |
| 672.14 | Peak | S | 39.31 | -11.68 | 27.63 | 46.00 | -18.37 |
| 720.64 | Peak | S | 37.26 | -10.77 | 26.49 | 46.00 | -19.51 |
| 11490.00 | Peak | H | 37.65 | 21.08 | 58.73 | 74.00 | -15.27 |
| 11490.00 | Average | H | 24.61 | 21.08 | 45.69 | 54.00 | -8.31 |
| 17235.00 | Peak | H | - | | | | |
| 22980.00 | Peak | H | - | | | | |
| 28725.00 | Peak | H | - | | | | |
| 34470.00 | Peak | H | - | | | | |

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Operation Band :802.11 n20M Test Date :2015-02-22
 Fundamental Frequency :5785 MHz Temp./Humi. :16.7 deg_C / 52 RH
 Operation Mode :TX MID Engineer :Vito
 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 71.71 | Peak | S | 51.56 | -27.63 | 23.94 | 40.00 | -16.06 |
| 101.78 | Peak | S | 54.98 | -23.54 | 31.43 | 43.50 | -12.07 |
| 216.24 | Peak | S | 39.49 | -22.96 | 16.53 | 46.00 | -29.47 |
| 452.92 | Peak | S | 38.52 | -14.83 | 23.70 | 46.00 | -22.30 |
| 503.36 | Peak | S | 38.68 | -14.15 | 24.54 | 46.00 | -21.46 |
| 528.58 | Peak | S | 40.30 | -13.16 | 27.13 | 46.00 | -18.87 |
| 11570.00 | Peak | H | 38.18 | 21.14 | 59.32 | 74.00 | -14.68 |
| 11570.00 | Average | H | 24.90 | 21.14 | 46.04 | 54.00 | -7.96 |
| 17355.00 | Peak | H | - | | | | |
| 23140.00 | Peak | H | - | | | | |
| 28925.00 | Peak | H | - | | | | |
| 34710.00 | Peak | H | - | | | | |

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Operation Band :802.11 n20M Test Date :2015-02-22
 Fundamental Frequency :5785 MHz Temp./Humi. :16.7 deg_C / 52 RH
 Operation Mode :TX MID Engineer :Vito
 EUT Pol. :E2 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 77.53 | Peak | S | 60.84 | -27.08 | 33.76 | 40.00 | -6.24 |
| 101.78 | Peak | S | 52.42 | -23.54 | 28.88 | 43.50 | -14.62 |
| 167.74 | Peak | S | 42.93 | -23.65 | 19.28 | 43.50 | -24.22 |
| 288.02 | Peak | S | 40.66 | -19.45 | 21.21 | 46.00 | -24.79 |
| 431.58 | Peak | S | 41.00 | -15.34 | 25.66 | 46.00 | -20.34 |
| 528.58 | Peak | S | 41.12 | -13.16 | 27.96 | 46.00 | -18.04 |
| 11570.00 | Peak | H | 38.19 | 21.14 | 59.32 | 74.00 | -14.68 |
| 11570.00 | Average | H | 24.85 | 21.14 | 45.99 | 54.00 | -8.01 |
| 17355.00 | Peak | H | - | | | | |
| 23140.00 | Peak | H | - | | | | |
| 28925.00 | Peak | H | - | | | | |
| 34710.00 | Peak | H | - | | | | |

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 Fundamental Frequency :5825 MHz Temp./Humi. :16.7 deg_C / 52 RH
 Operation Mode :TX HIGH Engineer :Vito
 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 71.71 | Peak | S | 53.48 | -27.63 | 25.85 | 40.00 | -14.15 |
| 83.35 | Peak | S | 52.76 | -26.46 | 26.30 | 40.00 | -13.70 |
| 101.78 | Peak | S | 52.52 | -23.54 | 28.98 | 43.50 | -14.52 |
| 445.16 | Peak | S | 38.62 | -15.18 | 23.44 | 46.00 | -22.56 |
| 503.36 | Peak | S | 37.76 | -14.15 | 23.61 | 46.00 | -22.39 |
| 528.58 | Peak | S | 40.03 | -13.16 | 26.87 | 46.00 | -19.13 |
| 11650.00 | Peak | H | 37.15 | 21.27 | 58.42 | 74.00 | -15.58 |
| 11650.00 | Average | H | 24.92 | 21.27 | 46.19 | 54.00 | -7.81 |
| 17475.00 | Peak | H | - | | | | |
| 23300.00 | Peak | H | - | | | | |
| 29125.00 | Peak | H | - | | | | |
| 34950.00 | Peak | H | - | | | | |

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t (886-2) 2299-3279

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Operation Band :802.11 n20M Test Date :2015-02-22
 Fundamental Frequency :5825 MHz Temp./Humi. :16.7 deg_C / 52 RH
 Operation Mode :TX HIGH Engineer :Vito
 EUT Pol. :E2 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.

| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 71.71 | Peak | S | 45.84 | -27.63 | 18.21 | 40.00 | -21.79 |
| 96.93 | Peak | S | 44.82 | -24.36 | 20.46 | 43.50 | -23.04 |
| 352.04 | Peak | S | 39.25 | -17.31 | 21.93 | 46.00 | -24.07 |
| 445.16 | Peak | S | 39.23 | -15.18 | 24.04 | 46.00 | -21.96 |
| 528.58 | Peak | S | 40.15 | -13.16 | 26.99 | 46.00 | -19.01 |
| 647.89 | Peak | S | 38.57 | -11.08 | 27.50 | 46.00 | -18.50 |
| 11650.00 | Peak | H | 38.02 | 21.27 | 59.29 | 74.00 | -14.71 |
| 11650.00 | Average | H | 24.92 | 21.27 | 46.19 | 54.00 | -7.81 |
| 17475.00 | Peak | H | - | | | | |
| 23300.00 | Peak | H | - | | | | |
| 29125.00 | Peak | H | - | | | | |
| 34950.00 | Peak | H | - | | | | |

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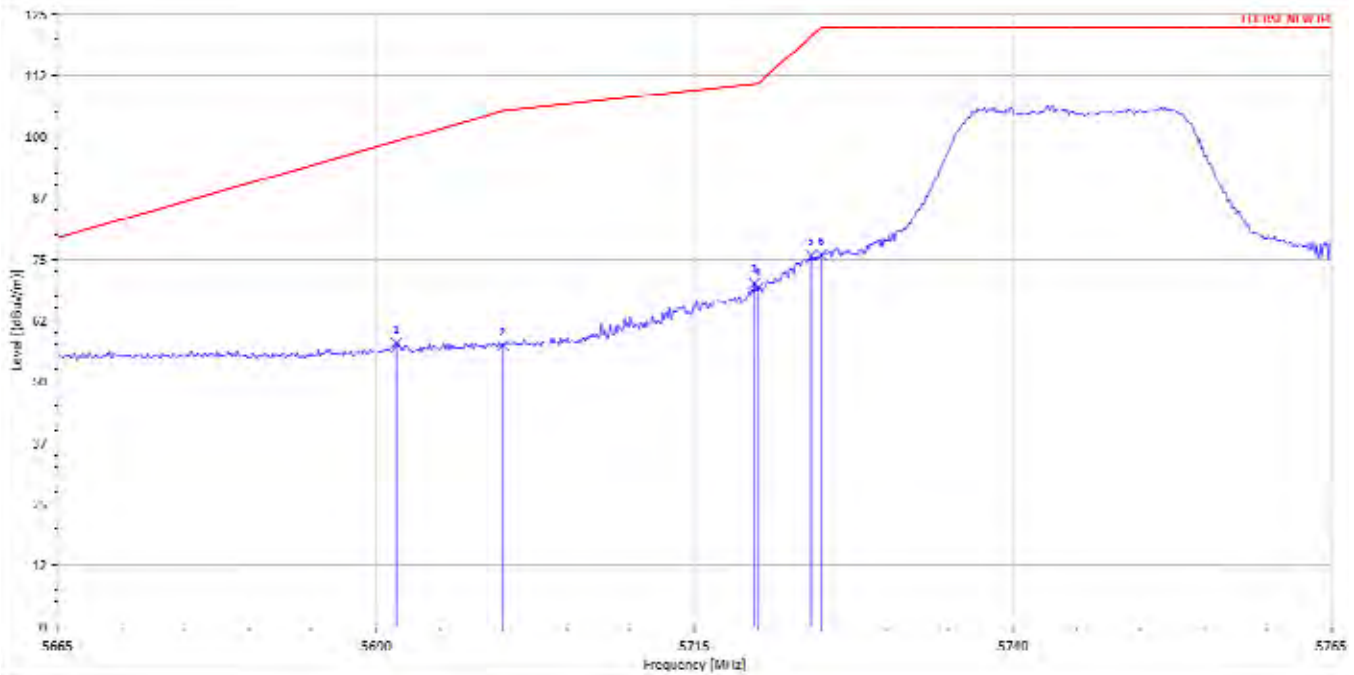
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| | | | |
|-----------------------|---------------|--------------------------|---------------------|
| Operation Band | :802.11 n20 M | Test Date | :2015-02-22 |
| Fundamental Frequency | :5745 MHz | Temp./Humi. | :25.5 deg_C / 63 RH |
| Operation Mode | :Bandedge LOW | Engineer | :Vito |
| 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. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5700.00 | S | Peak | 42.48 | 12.16 | 54.64 | 105.23 | -50.59 |
| 5719.90 | S | Peak | 51.36 | 11.99 | 63.35 | 110.802 | -47.45 |
| 5720.00 | S | Peak | 49.69 | 11.99 | 61.69 | 110.83 | -49.14 |
| 5724.80 | S | Peak | 58.75 | 12.01 | 70.76 | 121.7736 | -51.02 |
| 5725.00 | E | Peak | 57.80 | 12.27 | 70.07 | 122.23 | -52.16 |

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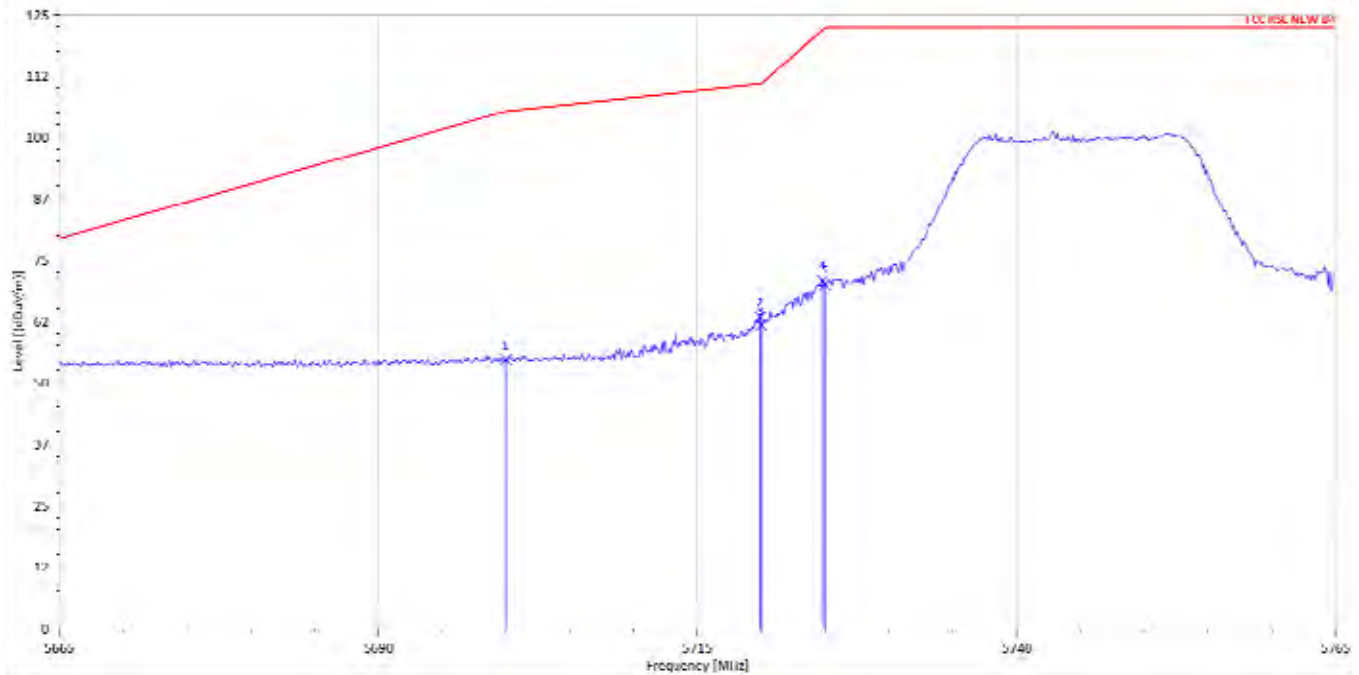
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| | | | |
|-----------------------|---------------|--------------------------|---------------------|
| Operation Band | :802.11 n20 M | Test Date | :2015-02-22 |
| Fundamental Frequency | :5745 MHz | Temp./Humi. | :25.5 deg_C / 63 RH |
| Operation Mode | :Bandedge LOW | Engineer | :Vito |
| EUT Pol. | :E2 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.

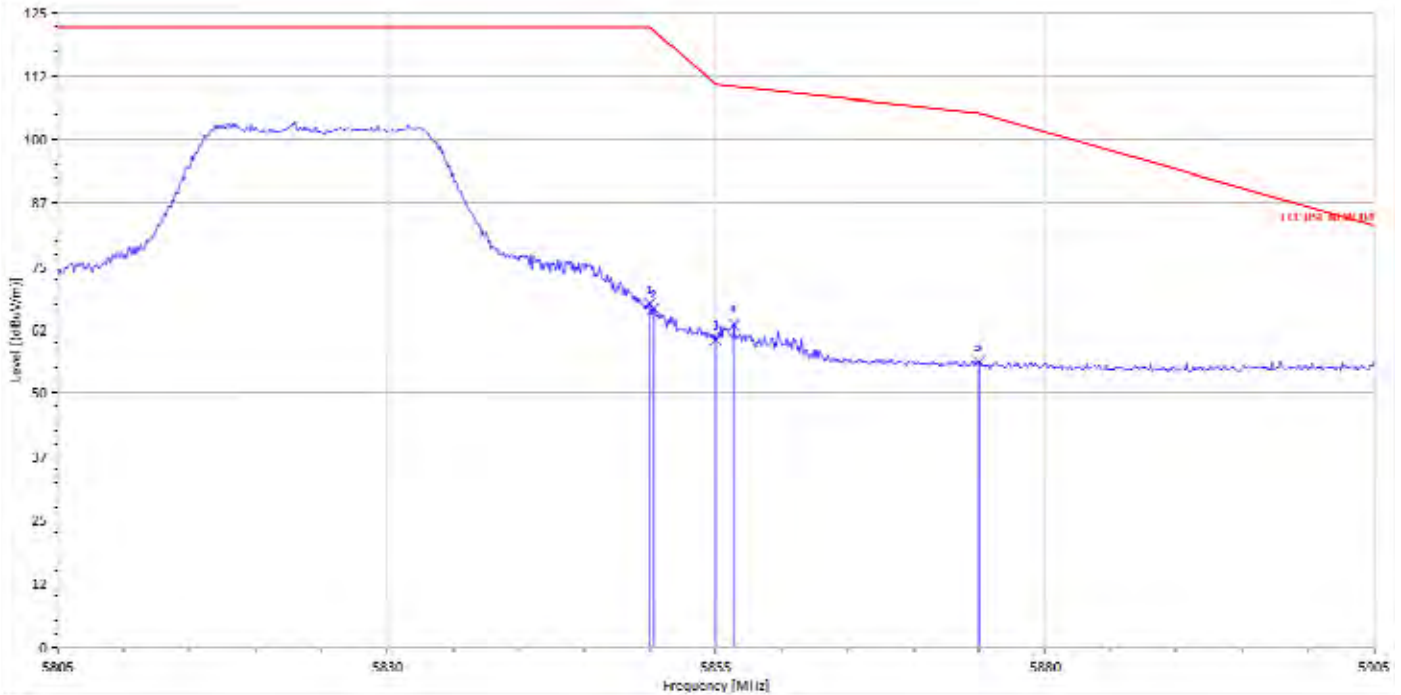
| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5691.60 | S | Peak | 45.56 | 12.33 | 57.89 | 99.01408 | -41.12 |
| 5700.00 | S | Peak | 45.17 | 12.16 | 57.33 | 105.23 | -47.90 |
| 5719.70 | S | Peak | 58.01 | 11.99 | 70.01 | 110.7461 | -40.74 |
| 5720.00 | S | Peak | 57.23 | 11.99 | 69.22 | 110.83 | -41.61 |
| 5724.20 | S | Peak | 63.75 | 12.01 | 75.76 | 120.4064 | -44.65 |
| 5725.00 | E | Peak | 63.63 | 12.27 | 75.90 | 122.23 | -46.33 |

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| | | | |
|-----------------------|----------------|--------------------------|---------------------|
| Operation Band | :802.11 n20 M | Test Date | :2015-02-22 |
| Fundamental Frequency | :5825 MHz | Temp./Humi. | :25.5 deg_C / 63 RH |
| Operation Mode | :Bandedge HIGH | Engineer | :Vito |
| 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.

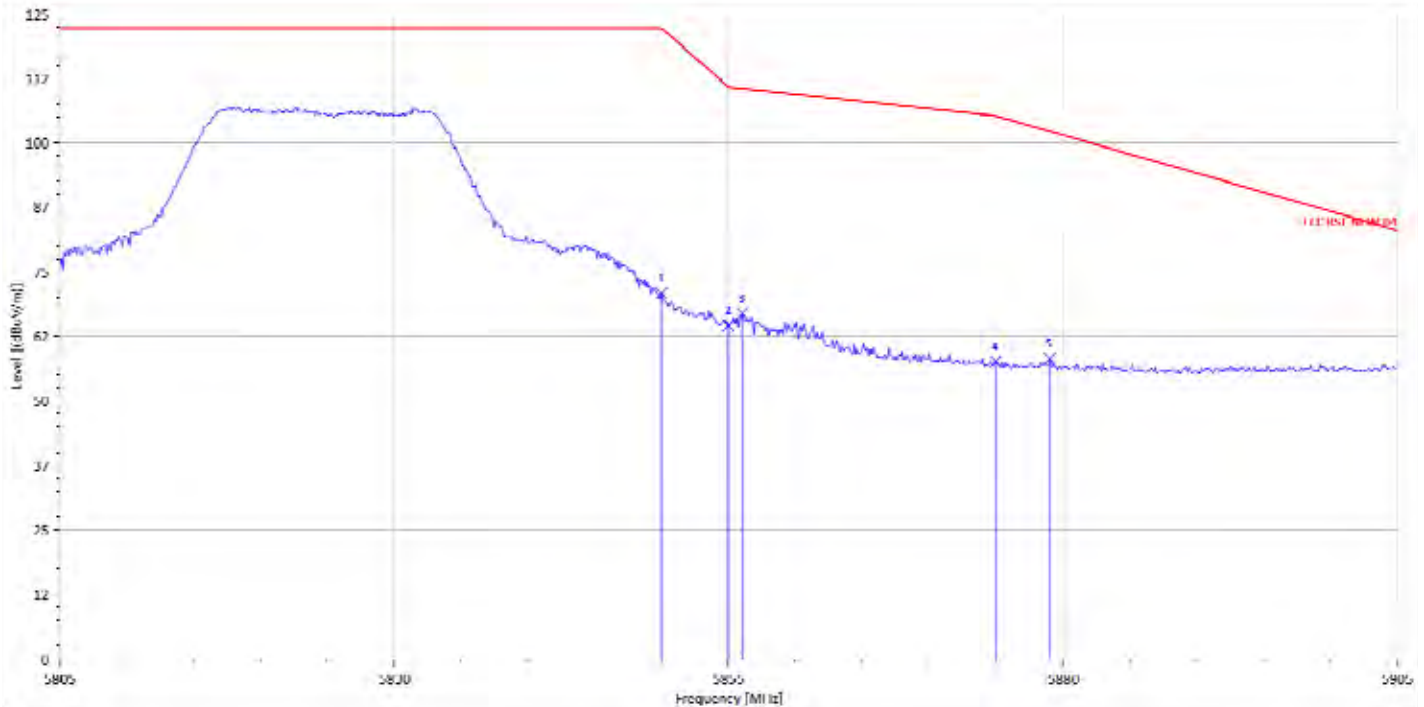
| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5850.00 | E | Peak | 55.01 | 12.61 | 67.62 | 122.23 | -54.61 |
| 5850.30 | S | Peak | 54.51 | 12.15 | 66.66 | 121.5464 | -54.88 |
| 5855.00 | S | Peak | 48.30 | 12.24 | 60.54 | 110.83 | -50.29 |
| 5856.40 | S | Peak | 51.24 | 12.26 | 63.50 | 110.438 | -46.94 |
| 5875.00 | S | Peak | 43.95 | 12.28 | 56.23 | 105.23 | -49.00 |

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| | | | |
|-----------------------|----------------|--------------------------|---------------------|
| Operation Band | :802.11 n20 M | Test Date | :2015-02-22 |
| Fundamental Frequency | :5825 MHz | Temp./Humi. | :25.5 deg_C / 63 RH |
| Operation Mode | :Bandedge HIGH | Engineer | :Vito |
| EUT Pol. | :E2 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. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5850.00 | E | Peak | 58.27 | 12.61 | 70.88 | 122.23 | -51.35 |
| 5855.00 | S | Peak | 52.39 | 12.24 | 64.63 | 110.83 | -46.20 |
| 5856.00 | S | Peak | 54.66 | 12.26 | 66.92 | 110.55 | -43.63 |
| 5875.00 | S | Peak | 45.37 | 12.28 | 57.65 | 105.23 | -47.58 |
| 5879.00 | S | Peak | 45.92 | 12.26 | 58.17 | 102.27 | -44.10 |

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11 TRANSMISSION IN THE ABSENCE OF DATA

11.1 Standard Applicable

According to §15.407(c)

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

11.2 Result:

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ASK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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12 FREQUENCY STABILITY

12.1 Standard Applicable

According to §15.407 (g) Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

12.2 Result:

Refer to next page for plots.

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| | | | |
|----------------|----------|-----------|------------|
| Operation Mode | 802.11 a | Test Date | 2015,02,12 |
| Temperature | :24 | Test By | Henry |
| Humidity | :58 % | | |

| Test Temp. | Test Voltage | Channel | Measured Frequency (MHz) | Spectrum Frequency (MHz) | ΔFrequency (MHz) |
|------------|--------------|--------------|--------------------------|--------------------------|------------------|
| -30 | 8.51V | 36 | 5180.0000 | 5,179.880000 | 0.1200 |
| | | 44 | 5220.0000 | 5,219.880000 | 0.1200 |
| | | 48 | 5240.0000 | 5,239.850000 | 0.1500 |
| | | 52 | 5260.0000 | 5,259.830000 | 0.1700 |
| | | 60 | 5300.0000 | 5,299.850000 | 0.1500 |
| | | 64 | 5320.0000 | 5,319.910000 | 0.0900 |
| | | 100 | 5500.0000 | 5,499.820000 | 0.1800 |
| | | 116 | 5580.0000 | 5,579.860000 | 0.1400 |
| | | 140 | 5700.0000 | 5,699.820000 | 0.1800 |
| | | 149 | 5745.0000 | 5,744.891400 | 0.1086 |
| | | 157 | 5785.0000 | 5,784.820500 | 0.1795 |
| -30 | 6.29V | 165 | 5825.0000 | 5,824.877600 | 0.1224 |
| | | 36 | 5180.0000 | 5,179.890000 | 0.1100 |
| | | 44 | 5220.0000 | 5,219.910000 | 0.0900 |
| | | 48 | 5240.0000 | 5,239.840000 | 0.1600 |
| | | 52 | 5260.0000 | 5,259.820000 | 0.1800 |
| | | 60 | 5300.0000 | 5,299.780000 | 0.2200 |
| | | 64 | 5320.0000 | 5,319.850000 | 0.1500 |
| | | 100 | 5500.0000 | 5,499.790000 | 0.2100 |
| | | 116 | 5580.0000 | 5,579.820000 | 0.1800 |
| | | 140 | 5700.0000 | 5,699.840000 | 0.1600 |
| | | 149 | 5745.0000 | 5,744.885900 | 0.1141 |
| 157 | 5785.0000 | 5,784.865300 | 0.1347 | | |
| | | 165 | 5825.0000 | 5,824.847900 | 0.1521 |

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| | | | | | |
|-----|-----------|-----|-----------|--------------|-----------|
| 25 | 7.4V | 36 | 5180.0000 | 5,179.960000 | 0.0400 |
| | | 44 | 5220.0000 | 5,219.980000 | 0.0200 |
| | | 48 | 5240.0000 | 5,239.940000 | 0.0600 |
| | | 52 | 5260.0000 | 5,259.900000 | 0.1000 |
| | | 60 | 5300.0000 | 5,299.920000 | 0.0800 |
| | | 64 | 5320.0000 | 5,319.940000 | 0.0600 |
| | | 100 | 5500.0000 | 5,499.920000 | 0.0800 |
| | | 116 | 5580.0000 | 5,579.920000 | 0.0800 |
| | | 140 | 5700.0000 | 5,699.920000 | 0.0800 |
| | | 149 | 5745.0000 | 5,744.960000 | 0.0400 |
| | | 157 | 5785.0000 | 5,784.900000 | 0.1000 |
| | | 165 | 5825.0000 | 5,824.900000 | 0.1000 |
| | | 80 | 8.51V | 36 | 5180.0000 |
| 44 | 5220.0000 | | | 5,219.860000 | 0.1400 |
| 48 | 5240.0000 | | | 5,239.880000 | 0.1200 |
| 52 | 5260.0000 | | | 5,259.830000 | 0.1700 |
| 60 | 5300.0000 | | | 5,299.830000 | 0.1700 |
| 64 | 5320.0000 | | | 5,319.910000 | 0.0900 |
| 100 | 5500.0000 | | | 5,499.770000 | 0.2300 |
| 116 | 5580.0000 | | | 5,579.860000 | 0.1400 |
| 140 | 5700.0000 | | | 5,699.820000 | 0.1800 |
| 149 | 5745.0000 | | | 5,744.889500 | 0.1105 |
| 157 | 5785.0000 | | | 5,784.890900 | 0.1091 |
| 165 | 5825.0000 | | | 5,824.857900 | 0.1421 |
| 80 | 6.29V | | | 36 | 5180.0000 |
| | | 44 | 5220.0000 | 5,219.880000 | 0.1200 |
| | | 48 | 5240.0000 | 5,239.890000 | 0.1100 |
| | | 52 | 5260.0000 | 5,259.780000 | 0.2200 |
| | | 60 | 5300.0000 | 5,299.830000 | 0.1700 |
| | | 64 | 5320.0000 | 5,319.920000 | 0.0800 |
| | | 100 | 5500.0000 | 5,499.780000 | 0.2200 |
| | | 116 | 5580.0000 | 5,579.850000 | 0.1500 |
| | | 140 | 5700.0000 | 5,699.800000 | 0.2000 |
| | | 149 | 5745.0000 | 5,744.943600 | 0.0564 |
| | | 157 | 5785.0000 | 5,784.824100 | 0.1759 |
| | | 165 | 5825.0000 | 5,824.858000 | 0.1420 |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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SGS Taiwan Ltd.

No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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| | | | |
|----------------|--------------|-----------|------------|
| Operation Mode | 802.11n_HT20 | Test Date | 2015,02,12 |
| Temperature | :24 | Test By | Henry |
| Humidity | :58 % | | |

| Test Temp. | Test Voltage | Channel | Measured Frequency (MHz) | Spectrum Frequency (MHz) | ΔFrequency (MHz) |
|------------|--------------|---------|--------------------------|--------------------------|------------------|
| -30 | 8.51V | 36 | 5180.0000 | 5,179.940000 | 0.0600 |
| | | 44 | 5220.0000 | 5,219.900000 | 0.1000 |
| | | 48 | 5240.0000 | 5,239.770000 | 0.2300 |
| | | 52 | 5260.0000 | 5,259.960000 | 0.0400 |
| | | 60 | 5300.0000 | 5,299.880000 | 0.1200 |
| | | 64 | 5320.0000 | 5,319.850000 | 0.1500 |
| | | 100 | 5500.0000 | 5,499.890000 | 0.1100 |
| | | 116 | 5580.0000 | 5,579.790000 | 0.2100 |
| | | 140 | 5700.0000 | 5,699.860000 | 0.1400 |
| | | 149 | 5745.0000 | 5,744.842700 | 0.1573 |
| | | 157 | 5785.0000 | 5,784.869900 | 0.1301 |
| | | 165 | 5825.0000 | 5,824.865200 | 0.1348 |
| -30 | 6.29V | 36 | 5180.0000 | 5,179.910000 | 0.0900 |
| | | 44 | 5220.0000 | 5,219.840000 | 0.1600 |
| | | 48 | 5240.0000 | 5,239.840000 | 0.1600 |
| | | 52 | 5260.0000 | 5,259.990000 | 0.0100 |
| | | 60 | 5300.0000 | 5,299.840000 | 0.1600 |
| | | 64 | 5320.0000 | 5,319.860000 | 0.1400 |
| | | 100 | 5500.0000 | 5,499.890000 | 0.1100 |
| | | 116 | 5580.0000 | 5,579.820000 | 0.1800 |
| | | 140 | 5700.0000 | 5,699.800000 | 0.2000 |
| | | 149 | 5745.0000 | 5,744.872200 | 0.1278 |
| | | 157 | 5785.0000 | 5,784.876400 | 0.1236 |
| | | 165 | 5825.0000 | 5,824.914000 | 0.0860 |

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| | | | | | |
|----|-------|-----|-----------|--------------|--------|
| 25 | 7.4V | 36 | 5180.0000 | 5,179.960000 | 0.0400 |
| | | 44 | 5220.0000 | 5,219.940000 | 0.0600 |
| | | 48 | 5240.0000 | 5,239.920000 | 0.0800 |
| | | 52 | 5260.0000 | 5,260.000000 | 0.0000 |
| | | 60 | 5300.0000 | 5,299.940000 | 0.0600 |
| | | 64 | 5320.0000 | 5,319.900000 | 0.1000 |
| | | 100 | 5500.0000 | 5,499.940000 | 0.0600 |
| | | 116 | 5580.0000 | 5,579.920000 | 0.0800 |
| | | 140 | 5700.0000 | 5,699.900000 | 0.1000 |
| | | 149 | 5745.0000 | 5,744.920000 | 0.0800 |
| | | 157 | 5785.0000 | 5,784.900000 | 0.1000 |
| | | 165 | 5825.0000 | 5,824.940000 | 0.0600 |
| 80 | 8.51V | 36 | 5180.0000 | 5,179.870000 | 0.1300 |
| | | 44 | 5220.0000 | 5,219.800000 | 0.2000 |
| | | 48 | 5240.0000 | 5,239.750000 | 0.2500 |
| | | 52 | 5260.0000 | 5,259.880000 | 0.1200 |
| | | 60 | 5300.0000 | 5,299.810000 | 0.1900 |
| | | 64 | 5320.0000 | 5,319.830000 | 0.1700 |
| | | 100 | 5500.0000 | 5,499.790000 | 0.2100 |
| | | 116 | 5580.0000 | 5,579.800000 | 0.2000 |
| | | 140 | 5700.0000 | 5,699.790000 | 0.2100 |
| | | 149 | 5745.0000 | 5,744.874700 | 0.1253 |
| | | 157 | 5785.0000 | 5,784.827500 | 0.1725 |
| | | 165 | 5825.0000 | 5,824.888800 | 0.1112 |
| 80 | 6.29V | 36 | 5180.0000 | 5,179.870000 | 0.1300 |
| | | 44 | 5220.0000 | 5,219.810000 | 0.1900 |
| | | 48 | 5240.0000 | 5,239.740000 | 0.2600 |
| | | 52 | 5260.0000 | 5,259.930000 | 0.0700 |
| | | 60 | 5300.0000 | 5,299.780000 | 0.2200 |
| | | 64 | 5320.0000 | 5,319.830000 | 0.1700 |
| | | 100 | 5500.0000 | 5,499.800000 | 0.2000 |
| | | 116 | 5580.0000 | 5,579.820000 | 0.1800 |
| | | 140 | 5700.0000 | 5,699.820000 | 0.1800 |
| | | 149 | 5745.0000 | 5,744.880500 | 0.1195 |
| | | 157 | 5785.0000 | 5,784.882200 | 0.1178 |
| | | 165 | 5825.0000 | 5,824.888900 | 0.1111 |

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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13 ANTENNA REQUIREMENT

13.1 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.

13.2 Antenna Connected Construction

The directional gains of antenna used for transmitting is 2.96dBi (5150MHz– 5250MHz), 2.96dBi (5250MHz– 5350MHz), 2.91dBi (5470MHz– 5725MHz), 2.11dBi (5725MHz– 5850MHz) and 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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No. 134, WuKungRoad, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

t (886-2) 2299-3279

f (886-2) 2298-0488

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