

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

## INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART E REQUIREMENT

OF

**Product Name:** Mobile Phone  
**Brand Name:** Sony  
**Type No.:** PM-0852-BV  
**Model Difference:** N/A  
**FCC ID:** PY7-PM0852  
**Report No.:** ER/2014/B0063  
**Issue Date:** Jan. 19, 2015  
**FCC Rule Part:** §15.407  
**Prepared for:** Sony Mobile Communications AB  
Nya Vattentornet 22188 Lund/Sweden  
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## VERIFICATION OF COMPLIANCE

**Applicant:** Sony Mobile Communications AB  
Nya Vattentornet 22188 Lund/Sweden

**Product Name:** Mobile Phone

**Brand Name:** Sony

**Type No.:** PM-0852-BV

**Model Difference:** N/A

**FCC ID:** PY7-PM0852

**File Number:** ER/2014/B0062

**Date of test:** Nov. 06, 2014 ~ Nov. 28, 2014

**Date of EUT Received:** Nov. 06, 2014

## We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4:2009 & ANSI C63.10: 2009 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.407.

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

Test By:

Marcus Tseng

Date:

Jan. 19, 2015

Marcus Tseng / Engineer

Prepared By:

Tiffany Kao

Date:

Jan. 19, 2015

Tiffany Kao / Clerk

Approved By:

Jim Chang

Date:

Jan. 19, 2015

Jim Chang / Supervisor

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## Revision History

| Report Number | Revision | Description                                                    | Issue Date    |
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| ER/2014/B0063 | Rev.00   | Initial creation of document                                   | Nov. 28, 2015 |
| ER/2014/B0063 | Rev.01   | Updated HW, SW, and internal photo                             | Jan. 09, 2015 |
| ER/2014/B0063 | Rev.02   | Added description in section 4 and 5725-5850MHz Bandedge Limit | Jan. 19, 2015 |
|               |          |                                                                |               |

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## Table of Contents

|                                                               |           |
|---------------------------------------------------------------|-----------|
| <b>1. GENERAL INFORMATION.....</b>                            | <b>6</b>  |
| 1.1. Product Description.....                                 | 6         |
| 1.2. Related Submittal(s) / Grant (s) .....                   | 15        |
| 1.3. Test Methodology.....                                    | 15        |
| 1.4. Test Facility .....                                      | 15        |
| 1.5. Special Accessories .....                                | 15        |
| 1.6. Equipment Modifications .....                            | 15        |
| <b>2. SYSTEM TEST CONFIGURATION.....</b>                      | <b>16</b> |
| 2.1. EUT Configuration.....                                   | 16        |
| 2.2. EUT Exercise .....                                       | 16        |
| 2.3. Test Procedure .....                                     | 16        |
| 2.4. Configuration of Tested System .....                     | 17        |
| <b>3. SUMMARY OF TEST RESULT .....</b>                        | <b>19</b> |
| <b>4. DESCRIPTION OF TEST MODES.....</b>                      | <b>20</b> |
| <b>5. MEASUREMENT UNCERTAINTY .....</b>                       | <b>28</b> |
| <b>6. CONDUCTED EMISSION TEST .....</b>                       | <b>29</b> |
| 6.1. Standard Applicable .....                                | 29        |
| 6.2. Measurement Equipment Used: .....                        | 29        |
| 6.3. EUT Setup.....                                           | 29        |
| 6.4. Test SET-UP (Block Diagram of Configuration) .....       | 30        |
| 6.5. Measurement Procedure.....                               | 30        |
| 6.6. Measurement Result.....                                  | 30        |
| <b>7. 26dB &amp; 6dB EMISSION BANDWIDTH MEASUREMENT .....</b> | <b>33</b> |
| 7.1 Standard Applicable .....                                 | 33        |
| 7.2 Measurement Procedure.....                                | 33        |
| 7.3 Measurement Equipment Used: .....                         | 34        |
| 7.4 Test Set-up:.....                                         | 34        |
| 7.5 Measurement Result.....                                   | 35        |
| <b>8. The MAXIMUM OUTPUT POWER MEASUREMENT .....</b>          | <b>60</b> |
| 8.1 Standard Applicable .....                                 | 60        |
| 8.2 Measurement Procedure.....                                | 60        |
| 8.3 Measurement Equipment Used: .....                         | 60        |
| 8.4 Test Set-up:.....                                         | 60        |
| 8.5 Measurement Result.....                                   | 61        |

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|                                                                                               |            |
|-----------------------------------------------------------------------------------------------|------------|
| <b>9. PEAK POWER SPECTRAL DENSITY .....</b>                                                   | <b>64</b>  |
| 9.1 Standard Applicable .....                                                                 | 64         |
| 9.2 Measurement Procedure (following procedure F, & E) d) method SA-2 in KDB789033 D01) ..... | 64         |
| 9.3 Measurement Equipment Used: .....                                                         | 64         |
| 9.4 Test Set-up:.....                                                                         | 64         |
| 9.5 Measurement Result.....                                                                   | 65         |
| <b>10. UNDESIRABLE EMISSION - RADIATED MEASUREMENT1.....</b>                                  | <b>87</b>  |
| 10.1 Standard Applicable .....                                                                | 87         |
| 10.2 EUT Setup .....                                                                          | 91         |
| 10.3 Measurement Procedure .....                                                              | 91         |
| 10.4 Test SET-UP (Block Diagram of Configuration) .....                                       | 92         |
| 10.5 Measurement Equipment Used: .....                                                        | 93         |
| 10.6 Field Strength Calculation.....                                                          | 94         |
| 10.7 Measurement Result.....                                                                  | 94         |
| <b>11. TRANSMISSION IN THE ABSENCE OF DATA.....</b>                                           | <b>182</b> |
| 11.1 Standard Applicable: .....                                                               | 182        |
| 11.2 Result: .....                                                                            | 182        |
| <b>12. FREQUENCY STABILITY .....</b>                                                          | <b>183</b> |
| 12.1 Standard Applicable .....                                                                | 183        |
| 12.2 Result: .....                                                                            | 183        |
| <b>13. ANTENNA REQUIREMENT.....</b>                                                           | <b>190</b> |
| 13.1 Standard Applicable .....                                                                | 190        |
| 13.2 Antenna Connected Construction .....                                                     | 190        |
| <b>MEASUREMENT PLOT OF RADIATED SPURIOUS EMISSION .....</b>                                   | <b>191</b> |

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# 1. GENERAL INFORMATION

## 1.1. Product Description

General:

|                                |                                                                                                                                              |                                                                 |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| Product Name:                  | Mobile Phone                                                                                                                                 |                                                                 |
| Brand Name:                    | Sony                                                                                                                                         |                                                                 |
| Type No.:                      | PM-0852-BV                                                                                                                                   |                                                                 |
| Model Difference:              | N/A                                                                                                                                          |                                                                 |
| Data Cable (USB):              | Model No.: EC450, Supplier: K-one<br>Type No.: AI-0700, Length: 100 cm                                                                       |                                                                 |
| Simple Hands-Free (SHF-White): | Model No.: MH410c, Supplier: Foster Electric<br>Type No.: AG-1100                                                                            |                                                                 |
| Car Charger:                   | Model No.: AN400, Supplier: Salcomp<br>Type No.: CAA-0003013                                                                                 |                                                                 |
| BT PHF:                        | Model No.: SBH20, Supplier: Sony<br>Type No.: RD-0010 coupling with Simple Hands Free (Model No.: MH755, Supplier: BALDA, Type No.: AG-0503) |                                                                 |
| Hardware Version:              | A                                                                                                                                            |                                                                 |
| Software Version:              | 25.0.A.0.33                                                                                                                                  |                                                                 |
| Power Supply:                  | 3.8Vdc                                                                                                                                       |                                                                 |
|                                | Battery:                                                                                                                                     | Model No.: LIS1574ERPC, Supplier: Sony<br>Type No.: N/A         |
|                                | Adapter:                                                                                                                                     | Model No.: EP800, Supplier: Salcomp<br>Type No.: CAA-0002016-US |

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## Bluetooth\_BR+EDR:

|                      |                                   |
|----------------------|-----------------------------------|
| Bluetooth Version:   | V4.1 dual mode + HS               |
| Channel number:      | 79 channels                       |
| Modulation type:     | Frequency Hopping Spread Spectrum |
| Transmit Power:      | 5.38dBm                           |
| Frequency Range:     | 2.402GHz – 2.480GHz               |
| Dwell Time:          | <= 0.4s                           |
| Antenna Designation: | PIFA Antenna, Gain: 2.52dBi       |

## Bluetooth Low Energy:

|                      |                             |
|----------------------|-----------------------------|
| Frequency Range:     | 2402 – 2480MHz              |
| Bluetooth Version:   | V4.1 dual mode + HS         |
| Channel number:      | 40 channels                 |
| Modulation type:     | GFSK                        |
| Transmit Power:      | -1.49dBm (Peak)             |
| Antenna Designation: | PIFA Antenna, Gain: 2.52dBi |

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## WLAN 2.4GHz:

| Wi-Fi                | Frequency Range | Channels                                                                                                                              | Rated Power                | Modulation Technology |
|----------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------|
| 11b/g                | 2412-2462       | 11                                                                                                                                    | b: 18.87dBm<br>g: 22.66dBm | DSSS, OFDM            |
| 11n                  | HT20 2412-2462  | 11                                                                                                                                    | HT20: 21.09dBm             | OFDM                  |
| 11n                  | HT40 2422-2452  | 7                                                                                                                                     | HT40: 22.22dBm             | OFDM                  |
| Antenna Designation: |                 | PIFA Antenna, Gain: 2.52dBi                                                                                                           |                            |                       |
| Modulation type:     |                 | CCK, DQPSK, DBPSK for DSSS<br>64QAM, 16QAM, QPSK, BPSK for OFDM                                                                       |                            |                       |
| Transition Rate:     |                 | 802.11 b: 1/2/5.5/11 Mbps;<br>802.11 g: 6/9/12/18/24/36/48/54 Mbps<br>802.11 n_20MHz: 6.5 – 72.2Mbps<br>802.11 n_40MHz: 13.5 –135Mbps |                            |                       |

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## WLAN 5GHz:

| Wi-Fi               | Frequency Range                                                                                                                                                                   | Channels | Avg. Power        | Modulation Technology |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------|-----------------------|
| 11a                 | 5150~5250                                                                                                                                                                         | 4        | 13.96dBm          | OFDM                  |
|                     | 5250~5350                                                                                                                                                                         | 4        | 13.99dBm          |                       |
|                     | 5470~5725                                                                                                                                                                         | 8        | 13.96dBm          |                       |
|                     | 5725-5850                                                                                                                                                                         | 5        | 13.79dBm          |                       |
| 11n                 | HT20<br>5150~5250                                                                                                                                                                 | 4        | HT20:<br>12.99dBm | OFDM                  |
|                     | HT20<br>5250~5350                                                                                                                                                                 | 4        | HT20:<br>12.95dBm |                       |
|                     | HT20<br>5470~5725                                                                                                                                                                 | 8        | HT20:<br>12.99dBm |                       |
|                     | HT20<br>5725-5850                                                                                                                                                                 | 5        | HT20:<br>12.79dBm |                       |
| 11n                 | HT40<br>5150~5250                                                                                                                                                                 | 2        | HT40:<br>11.95dBm | OFDM                  |
|                     | HT40<br>5250~5350                                                                                                                                                                 | 2        | HT40:<br>11.93dBm |                       |
|                     | HT40<br>5470~5725                                                                                                                                                                 | 3        | HT40:<br>11.96dBm |                       |
|                     | HT40<br>5725-5850                                                                                                                                                                 | 2        | HT40:<br>11.98dBm |                       |
| Antenna Designation | PIFA Antenna,<br>5GHz Gain: -0.54dBi (5150MHz-5250MHz)<br>5GHz Gain: -0.89dBi (5250MHz-5350MHz)<br>5GHz Gain: -0.34dBi (5470MHz-5725MHz)<br>5GHz Gain: -0.19dBi (5725MHz-5850MHz) |          |                   |                       |
| Modulation type     | 64QAM, 16QAM, QPSK, BPSK for OFDM                                                                                                                                                 |          |                   |                       |
| Transition Rate:    | 802.11 a: 6/9/12/18/24/36/48/54 Mbps<br>802.11 n_20MHz: 6.5 – 65.0Mbps<br>802.11 n_40MHz: 13.5 – 135.0Mbps                                                                        |          |                   |                       |

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## GSM / WCDMA/ LTE:

| Cellular Phone Standards Frequency Range and Power | Operating Frequency              |                       | Rated Power |
|----------------------------------------------------|----------------------------------|-----------------------|-------------|
|                                                    | GSM/GPRS 850, Class 12           | 824.2 MHz– 848.8 MHz  | 33dBm       |
|                                                    | EDGE 850, Class 12               | 824.2 MHz– 848.8 MHz  | 27dBm       |
|                                                    | GSM/GPRS 1900, Class 12          | 1850.2MHz – 1909.8MHz | 30dBm       |
|                                                    | EDGE 1900, Class 12              | 1850.2MHz – 1909.8MHz | 26dBm       |
|                                                    | WCDMA/HSUPA/HSDPA /HSPA+ Band II | 1852.4MHz – 1907.6MHz | 24dBm       |
|                                                    | WCDMA/HSUPA/HSDPA /HSPA+ Band IV | 1712.4MHz - 1752.6MHz | 24dBm       |
|                                                    | WCDMA/HSUPA/HSDPA /HSPA+ Band V  | 826.4MHz - 846.6MHz   | 24dBm       |
|                                                    | 1.4MHz BW LTE-Band 2             | 1850MHz– 1909.3MHz    | 23dBm       |
|                                                    | 3MHz BW LTE-Band 2               | 1851.5MHz – 1908.5MHz | 23dBm       |
|                                                    | 5MHz BW LTE-Band 2               | 1852.5MHz – 1907.5MHz | 23dBm       |
|                                                    | 10MHz BW LTE-Band 2              | 1855MHz – 1905MHz     | 23dBm       |
|                                                    | 15MHz BW LTE-Band 2              | 1857.5MHz – 1902.5MHz | 23dBm       |
|                                                    | 20MHz BW LTE-Band 2              | 1860MHz – 1900MHz     | 23dBm       |
|                                                    | 1.4MHz BW LTE-Band 4             | 1710.7MHz– 1754.3MHz  | 23dBm       |
|                                                    | 3MHz BW LTE-Band 4               | 1711.5MHz – 1753.5MHz | 23dBm       |
|                                                    | 5MHz BW LTE-Band 4               | 1712.5MHz – 1752.5MHz | 23dBm       |
|                                                    | 10MHz BW LTE-Band 4              | 1715MHz – 1750MHz     | 23dBm       |
|                                                    | 15MHz BW LTE-Band 4              | 1717.5MHz – 1747.5MHz | 23dBm       |
|                                                    | 20MHz BW LTE-Band 4              | 1720MHz – 1745MHz     | 23dBm       |
|                                                    | 5MHz BW LTE-Band 5               | 2502.5MHz – 2567.5MHz | 23dBm       |
|                                                    | 10MHz BW LTE-Band 5              | 2505.0MHz – 2565.0MHz | 23dBm       |
|                                                    | 15MHz BW LTE-Band 5              | 2507.5MHz – 2562.5MHz | 23dBm       |
|                                                    | 20MHz BW LTE-Band 5              | 2510.0MHz – 2560MHz   | 23dBm       |

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| Cellular Phone<br>Standards Frequency<br>Range and Power | Operating Frequency   |                       | Rated Power |
|----------------------------------------------------------|-----------------------|-----------------------|-------------|
|                                                          | 5MHz BW LTE-Band 7    | 2502.5MHz – 2567.5MHz | 23dBm       |
|                                                          | 10MHz BW LTE-Band 7   | 2505.0MHz – 2565.0MHz | 23dBm       |
|                                                          | 15MHz BW LTE-Band 7   | 2507.5MHz – 2562.5MHz | 23dBm       |
|                                                          | 20MHz BW LTE-Band 7   | 2510.0MHz – 2560MHz   | 23dBm       |
|                                                          | 1.4MHz BW LTE-Band 12 | 699.7MHz– 715.3MHz    | 23dBm       |
|                                                          | 3MHz BW LTE-Band 12   | 700.5MHz – 714.5MHz   | 23dBm       |
|                                                          | 5MHz BW LTE-Band 12   | 701.5MHz – 713.5MHz   | 23dBm       |
|                                                          | 10MHz BW LTE-Band 12  | 704.0MHz – 711.0MHz   | 23dBm       |
|                                                          | 5MHz BW LTE-Band 13   | 779.5MHz – 784.5MHz   | 23 dBm      |
|                                                          | 10MHz BW LTE-Band 13  | 782MHz - 782MHz       | 23 dBm      |
|                                                          | 5MHz BW LTE-Band 17   | 706.5MHz – 713.5MHz   | 23dBm       |
|                                                          | 10MHz BW LTE-Band 17  | 709.0MHz –711.0MHz    | 23dBm       |

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|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type of Emission: | <p>GSM 850: 252KGXW, GSM 1900: 249KGXW<br/> GPRS 850: 248KGXW, GPRS 1900: 248KGXW<br/> EDGE 850: 259KG7W, EDGE 1900: 254KG7W<br/> WCDMA Band II: 4M23F9W, WCDMA Band IV: 4M22F9W,<br/> WCDMA Band V: 4M24F9W<br/> HSDPA Band II: 4M21F9W, HSDPA Band IV: 4M21F9W,<br/> HSDPA Band V: 4M23F9W<br/> HSUPA Band II: 4M21F9W, HSUPA Band IV: 4M23F9W,<br/> HSUPA Band V: 4M23F9W</p> <p>1.4MHz BW LTE-Band 2 QPSK:1M10G7D<br/> 1.4MHz BW LTE-Band 2 16QAM: 1M09D7W<br/> 3MHz BW LTE-Band 2 QPSK: 2M71G7D<br/> 3MHz BW LTE-Band 2 16QAM: 2M70D7W<br/> 5MHz BW LTE-Band 2 QPSK: 4M54G7D<br/> 5MHz BW LTE-Band 2 16QAM: 4M53D7W<br/> 10MHz BW LTE-Band 2 QPSK: 8M98G7D<br/> 10MHz BW LTE-Band 2 16QAM: 8M98D7W<br/> 15MHz BW LTE-Band 2 QPSK: 13M49G7D<br/> 15MHz BW LTE-Band 2 16QAM: 13M54D7W<br/> 20MHz BW LTE-Band 2 QPSK: 18M04G7D<br/> 20MHz BW LTE-Band 2 16QAM: 18M00D7W</p> <p>1.4MHz BW LTE-Band 4 QPSK:1M10G7D<br/> 1.4MHz BW LTE-Band 4 16QAM: 1M10D7W<br/> 3MHz BW LTE-Band 4 QPSK: 2M72G7D<br/> 3MHz BW LTE-Band 4 16QAM: 2M71D7W<br/> 5MHz BW LTE-Band 4 QPSK: 4M52G7D<br/> 5MHz BW LTE-Band 4 16QAM: 4M52D7W<br/> 10MHz BW LTE-Band 4 QPSK: 8M98G7D<br/> 10MHz BW LTE-Band 4 16QAM: 8M98D7W<br/> 15MHz BW LTE-Band 4 QPSK: 13M50G7D<br/> 15MHz BW LTE-Band 4 16QAM: 13M52D7W<br/> 20MHz BW LTE-Band 4 QPSK: 17M99D7W<br/> 20MHz BW LTE-Band 4 16QAM: 18M00D7W</p> |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type of Emission: | <p>5MHz BW LTE-Band 5 QPSK: 1M10G7D<br/> 5MHz BW LTE-Band 5 16QAM: 1M10D7W<br/> 10MHz BW LTE-Band 5 QPSK: 2M71G7D<br/> 10MHz BW LTE-Band 5 16QAM: 2M70D7W<br/> 15MHz BW LTE-Band 5 QPSK: 4M53G7D<br/> 15MHz BW LTE-Band 5 16QAM: 4M53D7W<br/> 20MHz BW LTE-Band 5 QPSK: 9M01G7D<br/> 20MHz BW LTE-Band 5 16QAM: 9M06D7W</p> <p>5MHz BW LTE-Band 7 QPSK: 4M53G7D<br/> 5MHz BW LTE-Band 7 16QAM: 4M54D7W<br/> 10MHz BW LTE-Band 7 QPSK: 9M00G7D<br/> 10MHz BW LTE-Band 7 16QAM: 8M99D7W<br/> 15MHz BW LTE-Band 7 QPSK: 13M49G7D<br/> 15MHz BW LTE-Band 7 16QAM: 13M52D7W<br/> 20MHz BW LTE-Band 7 QPSK: 17M98G7D<br/> 20MHz BW LTE-Band 7 16QAM: 17M96D7W</p> <p>1.4MHz BW LTE-Band 12 QPSK:1M10G7D<br/> 1.4MHz BW LTE-Band 12 16QAM: 1M10D7W<br/> 3MHz BW LTE-Band 12 QPSK: 2M71G7D<br/> 3MHz BW LTE-Band 12 16QAM: 2M70D7W<br/> 5MHz BW LTE-Band 12 QPSK: 4M53G7D<br/> 5MHz BW LTE-Band 12 16QAM: 4M52D7W<br/> 10MHz BW LTE-Band 12 QPSK: 9M05G7D<br/> 10MHz BW LTE-Band 12 16QAM: 9M05D7W</p> <p>5MHz BW LTE-Band 13 QPSK: 4M54G7D<br/> 5MHz BW LTE-Band 13 16QAM: 4M55D7W<br/> 10MHz BW LTE-Band 13 QPSK: 8M97G7D<br/> 10MHz BW LTE-Band 13 16QAM: 8M97D7W</p> <p>5MHz BW LTE-Band 17 QPSK: 4M52G7D<br/> 5MHz BW LTE-Band 17 16QAM: 4M52D7W<br/> 10MHz BW LTE-Band 17 QPSK: 8M98G7D<br/> 10MHz BW LTE-Band 17 16QAM: 8M96D7W</p> |
| IMEI:             | 00440245-355173-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

This report applies for frequency bands 5150 MHz– 5250 MHz, 5250MHz-5350MHz, 5470 MHz– 5725 MHz and 5725-5850 MHz.

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# IEEE 802.11n Spec:

| MCS Index | Nss | Modulation | R   | NBPSC | NCBPS |       | NDBPS |       | Data rate(Mbps) |       |         |       |
|-----------|-----|------------|-----|-------|-------|-------|-------|-------|-----------------|-------|---------|-------|
|           |     |            |     |       |       |       |       |       | 800nsGI         |       | 400nsGI |       |
|           |     |            |     |       | 20MHz | 40MHz | 20MHz | 40MHz | 20MHz           | 40MHz | 20MHz   | 40MHz |
| 0         | 1   | BPSK       | 1/2 | 1     | 52    | 108   | 26    | 54    | 6.5             | 13.5  | 7.200   | 15    |
| 1         | 1   | QPSK       | 1/2 | 2     | 104   | 216   | 52    | 108   | 13.0            | 27.0  | 14.400  | 30    |
| 2         | 1   | QPSK       | 3/4 | 2     | 104   | 216   | 78    | 162   | 19.5            | 40.5  | 21.700  | 45    |
| 3         | 1   | 16-QAM     | 1/2 | 4     | 208   | 432   | 104   | 216   | 26.0            | 54.0  | 28.900  | 60    |
| 4         | 1   | 16-QAM     | 3/4 | 4     | 208   | 432   | 156   | 324   | 39.0            | 81.0  | 43.300  | 90    |
| 5         | 1   | 64-QAM     | 2/3 | 6     | 312   | 648   | 208   | 432   | 52.0            | 108.0 | 57.800  | 120   |
| 6         | 1   | 64-QAM     | 3/4 | 6     | 312   | 648   | 234   | 486   | 58.5            | 121.5 | 65.000  | 135   |
| 7         | 1   | 64-QAM     | 5/6 | 6     | 312   | 648   | 260   | 540   | 65.0            | 135.0 | 72.200  | 150   |

| Symbol | Explanation                             |
|--------|-----------------------------------------|
| NSS    | Number of spatial streams               |
| R      | Code rate                               |
| NBPSC  | Number of coded bite per single carrier |
| NCBPS  | Number of coded bite per symbol         |
| NDBPS  | Number of data bite per symbol          |
| GI     | Guard interval                          |

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

This submittal(s) (test report) is intended for **FCC ID: PY7-PM0852** filing to comply with Section 15.407 of the FCC Part 15, Subpart C Rules. The composite system (digital device) is compliance with Subpart B is authorized under the certification procedure.

## 1.3. Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4:2009 & ANSI C63.10:2009 & 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 D02v01 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.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2009 & ANSI C63.10: 2009. FCC Registration Numbers are: 990257, 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: 455997.

## 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 C63.4:2009 & 6.2 ANSI 63.10:2009. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz, and the measurement procedure 7.3 in ANSI 63.4:2009 & 6.2.2, and 6.2.3 in ANSI 63.10:2009 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 C63.4:2009, & Section 6.3, 6.4, 6.5, and 6.6 of ANSI 63.10:2009. ANSI C63.10:2009.

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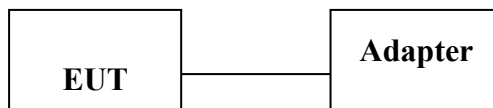
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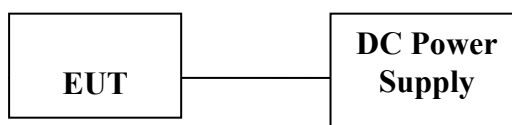
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## 2.4. Configuration of Tested System

**Fig. 2-1 Radiated Emission**



**Fig. 2-2 Conducted (Antenna Port) Configuration**



**Table 2-1 Equipment Used in Tested System**

| Item | Equipment          | Mfr/Brand | Model/Type No. | Series No. | Data Cable | Power Cord |
|------|--------------------|-----------|----------------|------------|------------|------------|
| 1.   | WLAN Test Software | N/A       | N/A            | N/A        | N/A        | N/A        |
| 2.   | DC Power Supply    | HP        | E3640A         | KR93300208 | N/A        | N/A        |

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Fig. 2-3 AC Power Line Conducted Emission

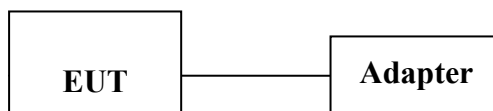


Table 2-2 Equipment Used in Tested System

| Item | Equipment             | Mfr/Brand | Model/Type No. | Series No. | Data Cable | Power Cord |
|------|-----------------------|-----------|----------------|------------|------------|------------|
| 1.   | WLAN<br>Test Software | N/A       | N/A            | N/A        | N/A        | N/A        |

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

5725 MHz-5850MHz: Channel lowest(5745MHz)、Mid(5785MHz) and Highest(5825MHz)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)with 6.5Mbps data rate are chosen for full testing

5725 MHz-5850MHz: Channel lowest(5745MHz)、Mid(5785MHz) and Highest(5825MHz)with 6.5 Mbps data rate are chosen for full testing.

n HT 40 mode:

5150MHz-5250MHz: Channel lowest (5190MHz) and Highest (5230MHz).

5250MHz-5350MHz: Channel lowest (5270MHz) and Highest (5310MHz).

5470MHz-5725MHz: Channel lowest(5510MHz)、Mid(5550MHz) and Highest(5670MHz)with 13.5Mbps data rate are chosen for full testing

5755MHz-5795MHz: Channel lowest (5755MHz) and Highest (5795MHz)with 13.5Mbps 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 7.5, the lowest data rate at a/n\_HT20/n\_HT40 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 E1 position was reported.

Type no, PM-0850-BV, and Type no PM-0852-BV share the equivalently identical enclosure, Material of coating, I/O function, PCB board, display, and power source. In addition, PM-0850-BV, and Type no PM-0852-BV implement the same Bluetooth/WLAN chipset/module with the same antenna that operates with the same transmitted power level. Hence, this given test report contains the identical test results that inherent from PM-0850-BV.

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*Remark: While conducting average power measurement, duty cycle of each mode (a/n\_ht20/n\_ht40) shall be greater than 98%. All duty cycle is pre-scanned, but verified to be greater than 98%, where  $a = 99\%$  and  $n_{HT20} \& n_{HT40} = 99\%$ , where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.*

**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 = 8 MHz where zero-span is permissible, that  $> 50/T$ , where  $T$  is  $\sim 4.3\text{ms}$

Duty Cycle:

|            | UNII Band 1 | UNII Band 2 – Subband1 | UNII Band 2 – Subband2 | UNII Band 3 – Subband3 |
|------------|-------------|------------------------|------------------------|------------------------|
| 802.11a    | 0.99        | 0.99                   | 0.99                   | 0.99                   |
| 802.11n_20 | 0.99        | 0.99                   | 0.99                   | 0.99                   |
| 802.11n_40 | 0.99        | 0.99                   | 0.99                   | 0.99                   |

$$\text{Duty Cycle Factor: } 10 * \log(1/0.99) = 0.04$$

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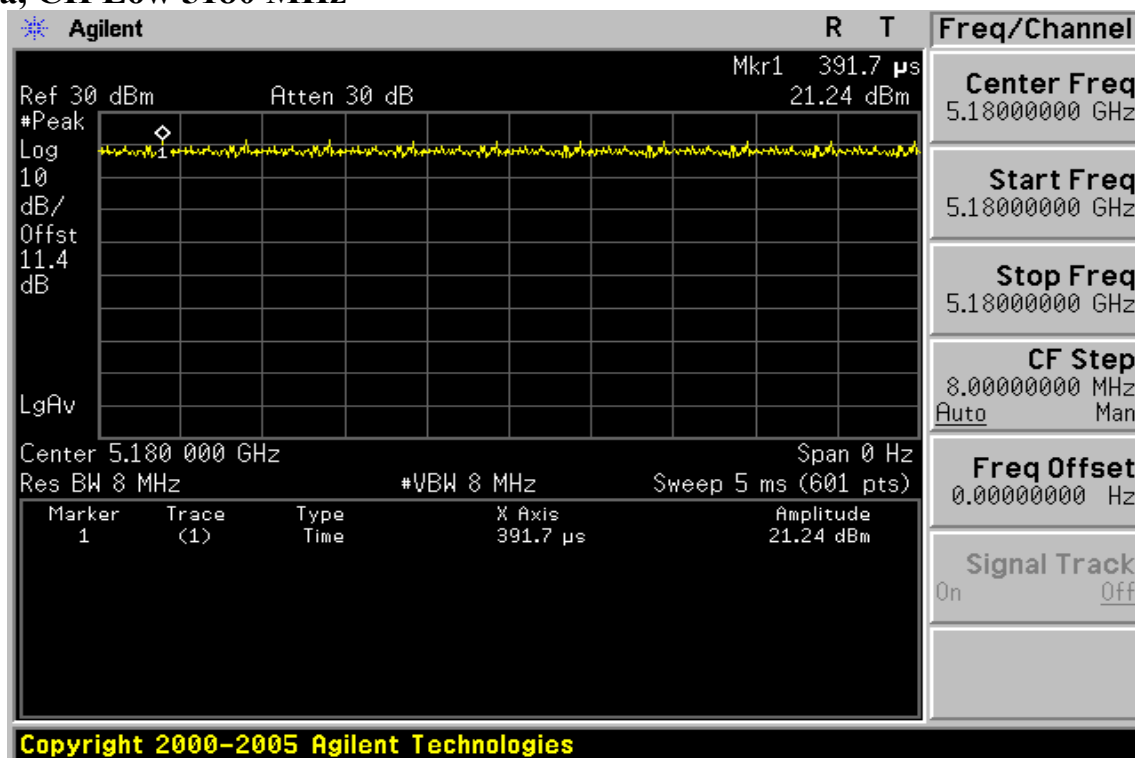
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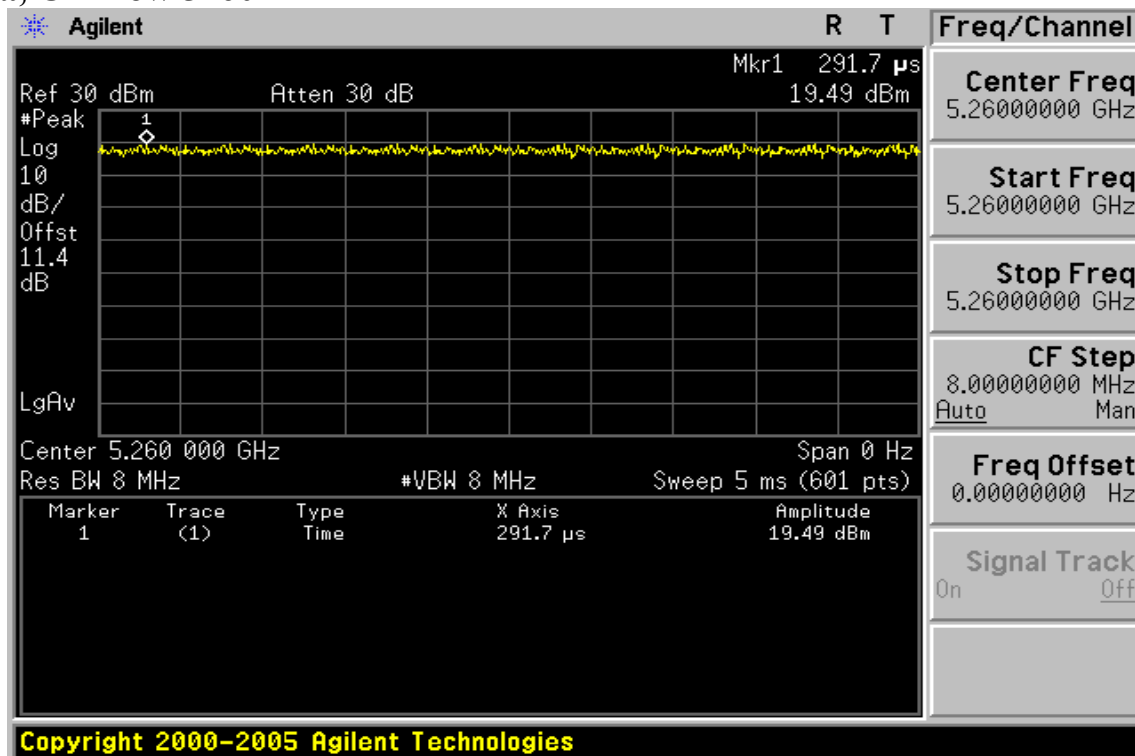
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## DUTY CYCLE OF TEST SIGNAL

## 802.11a, CH Low 5180 MHz



## 802.11a, CH Low 5260 MHz



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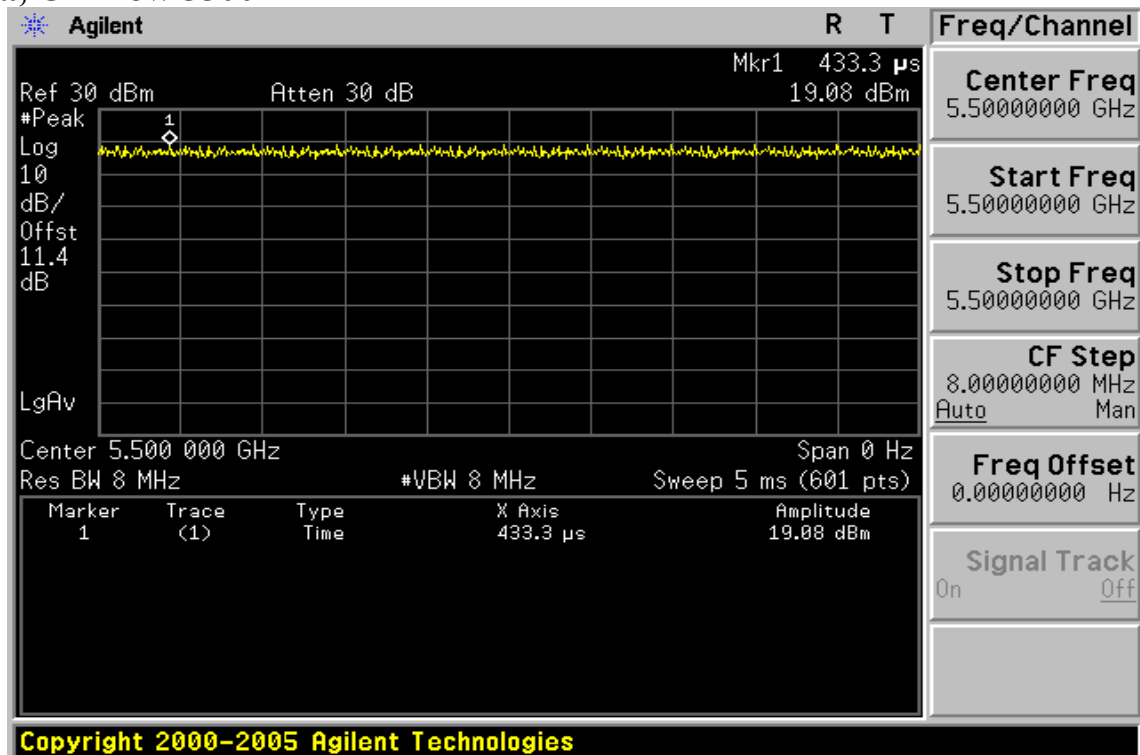
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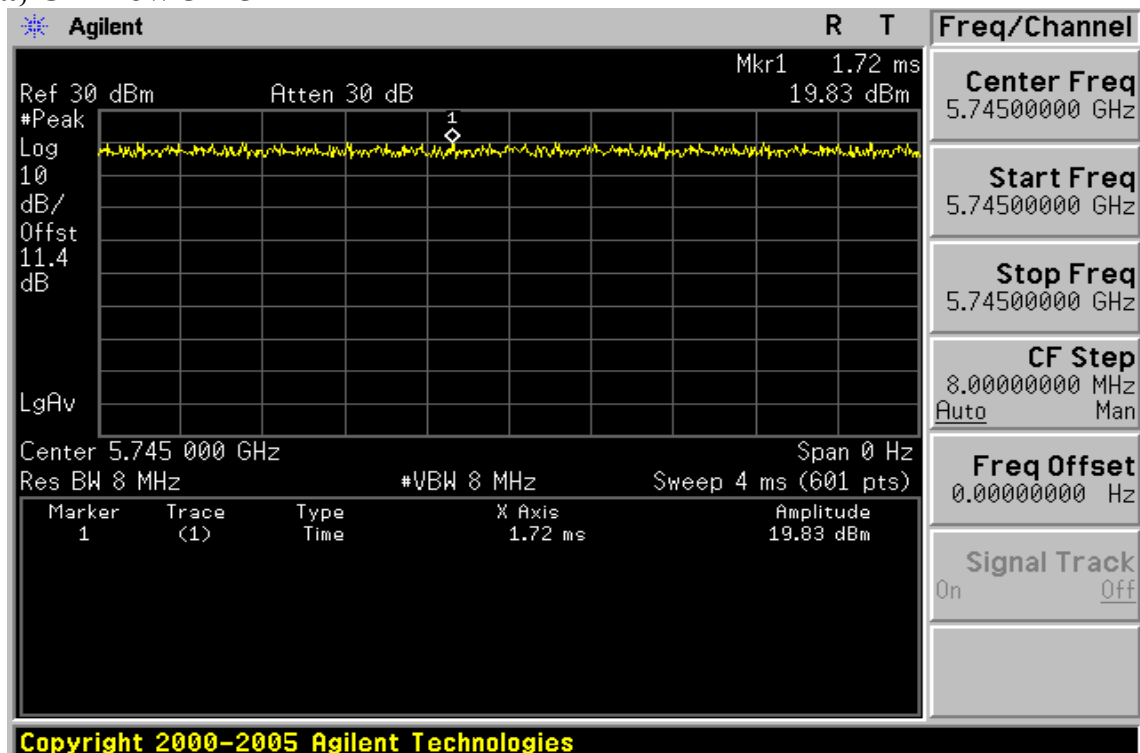
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## 802.11a, CH Low 5500 MHz



## 802.11a, CH Low 5745 MHz



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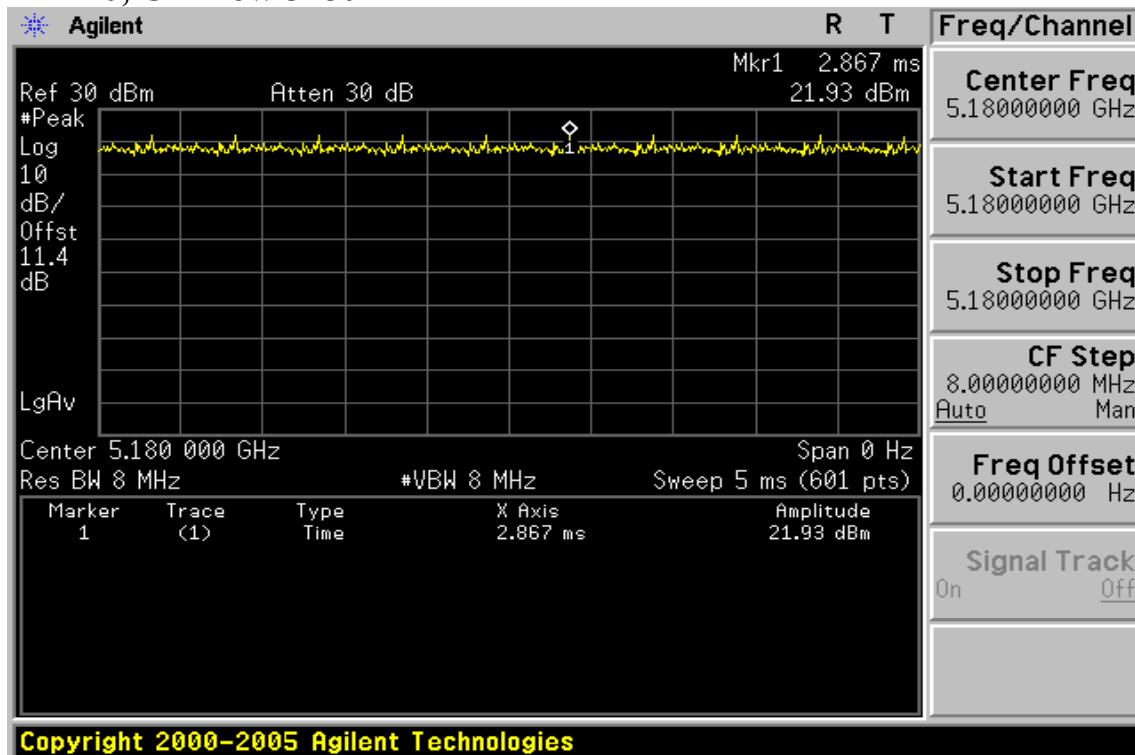
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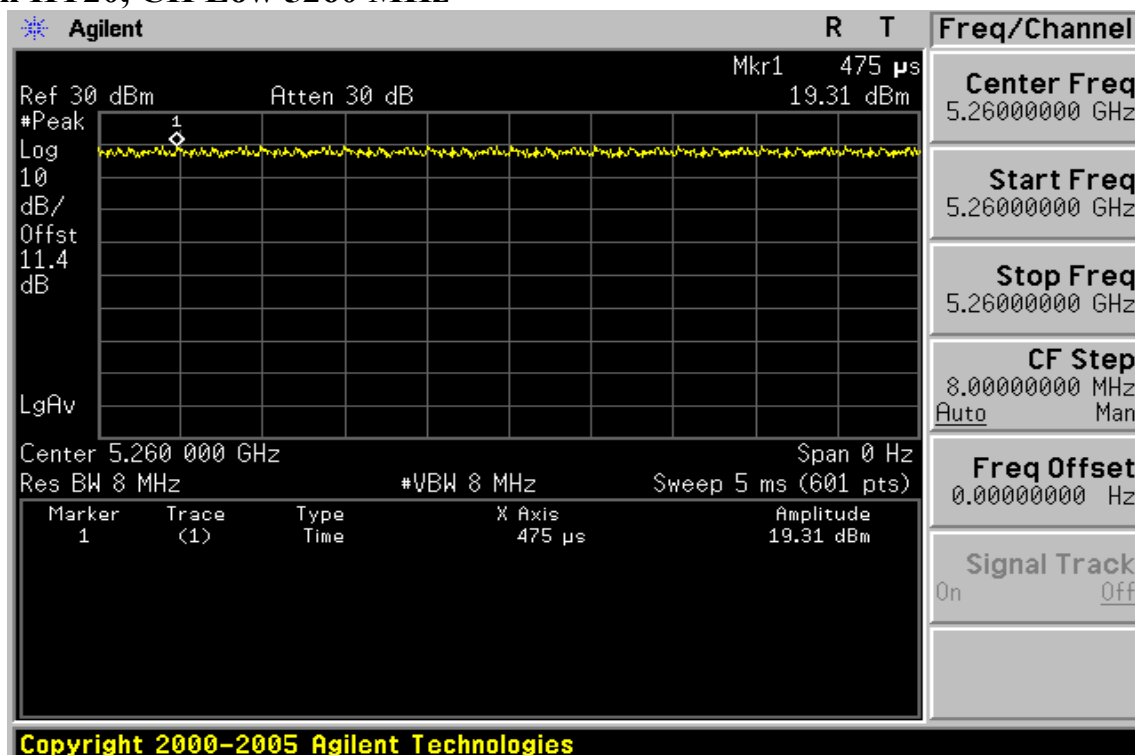
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## 802.11n HT20, CH Low 5180 MHz



## 802.11n HT20, CH Low 5260 MHz



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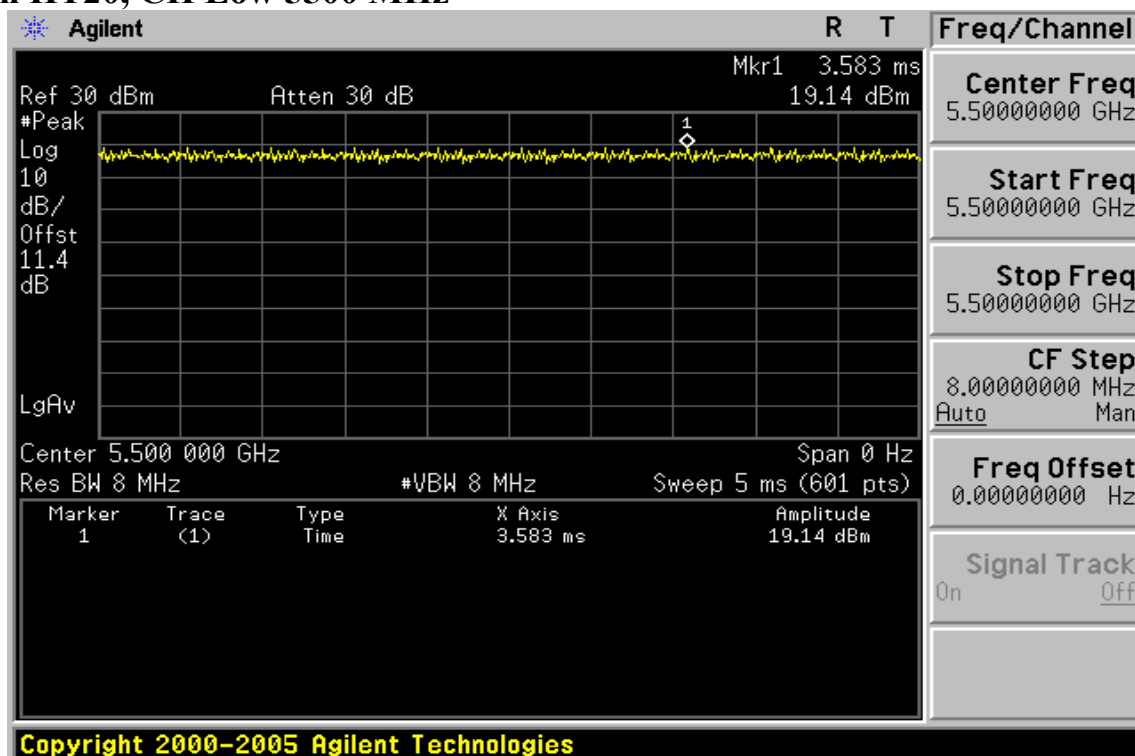
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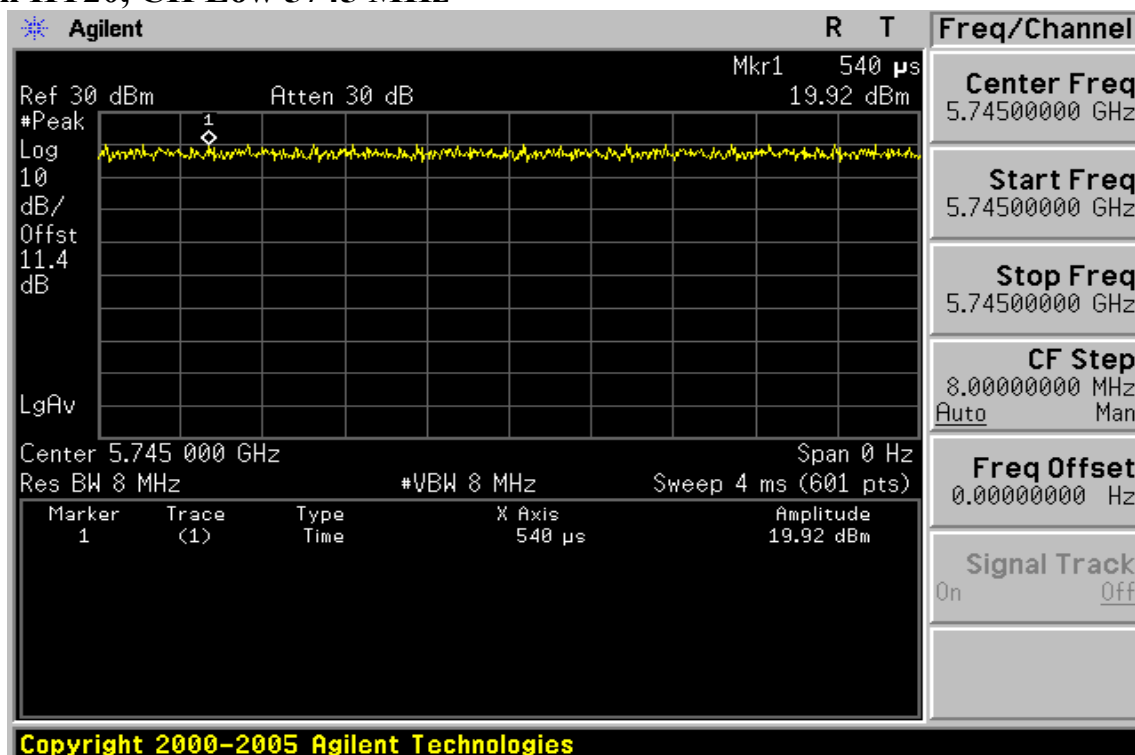
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## 802.11n HT20, CH Low 5500 MHz



## 802.11n HT20, CH Low 5745 MHz



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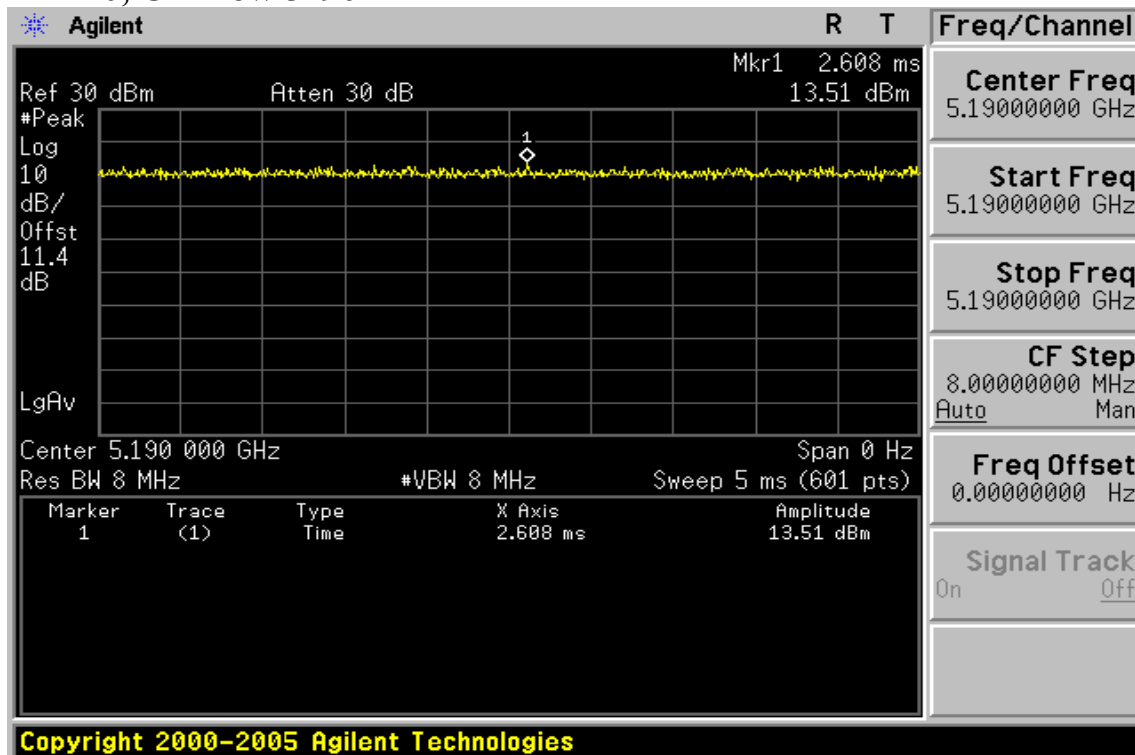
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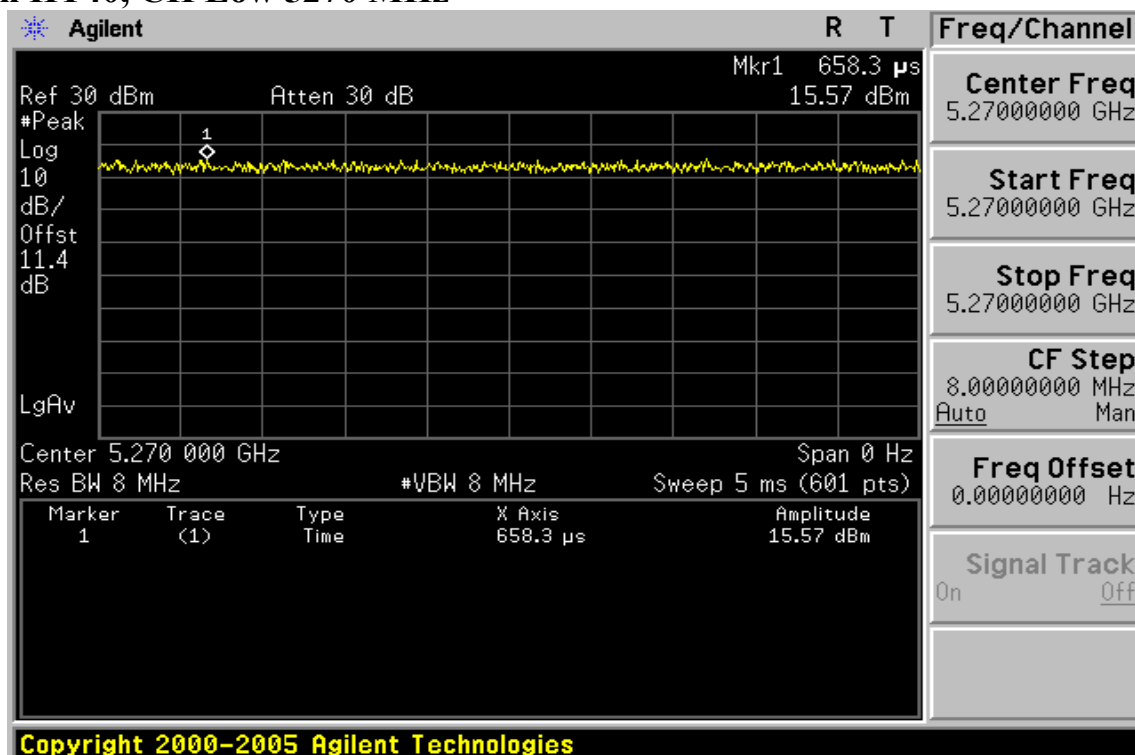
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## 802.11n HT40, CH Low 5190 MHz



## 802.11n HT40, CH Low 5270 MHz



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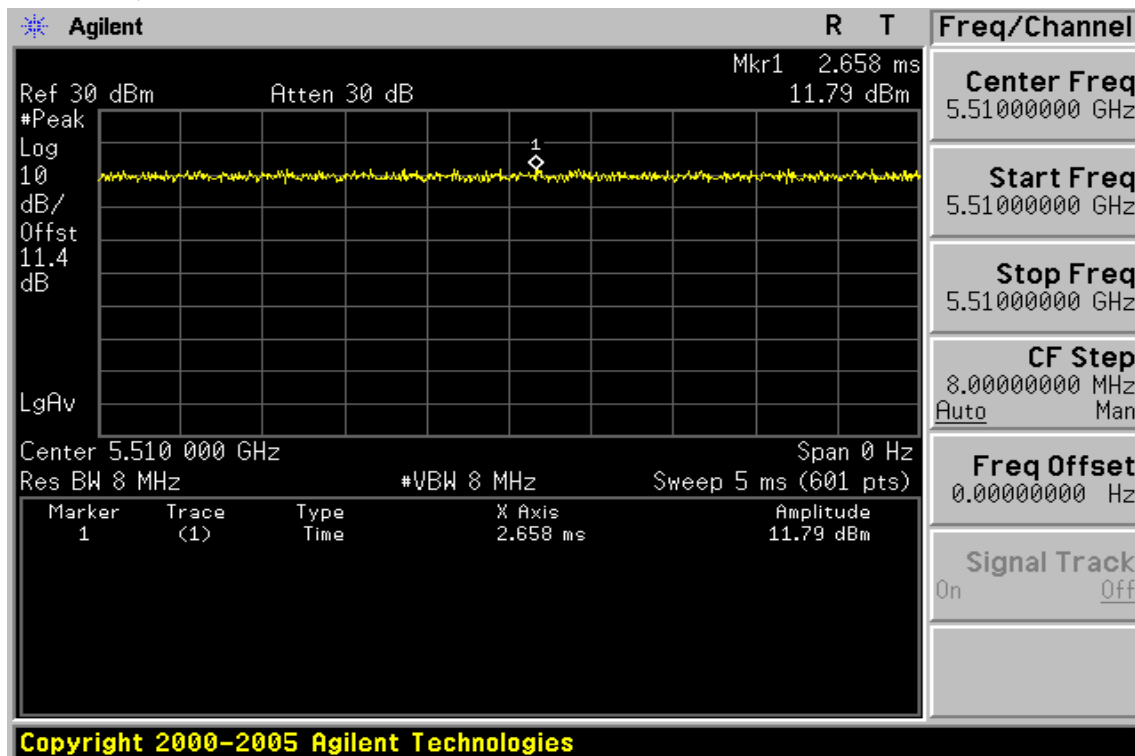
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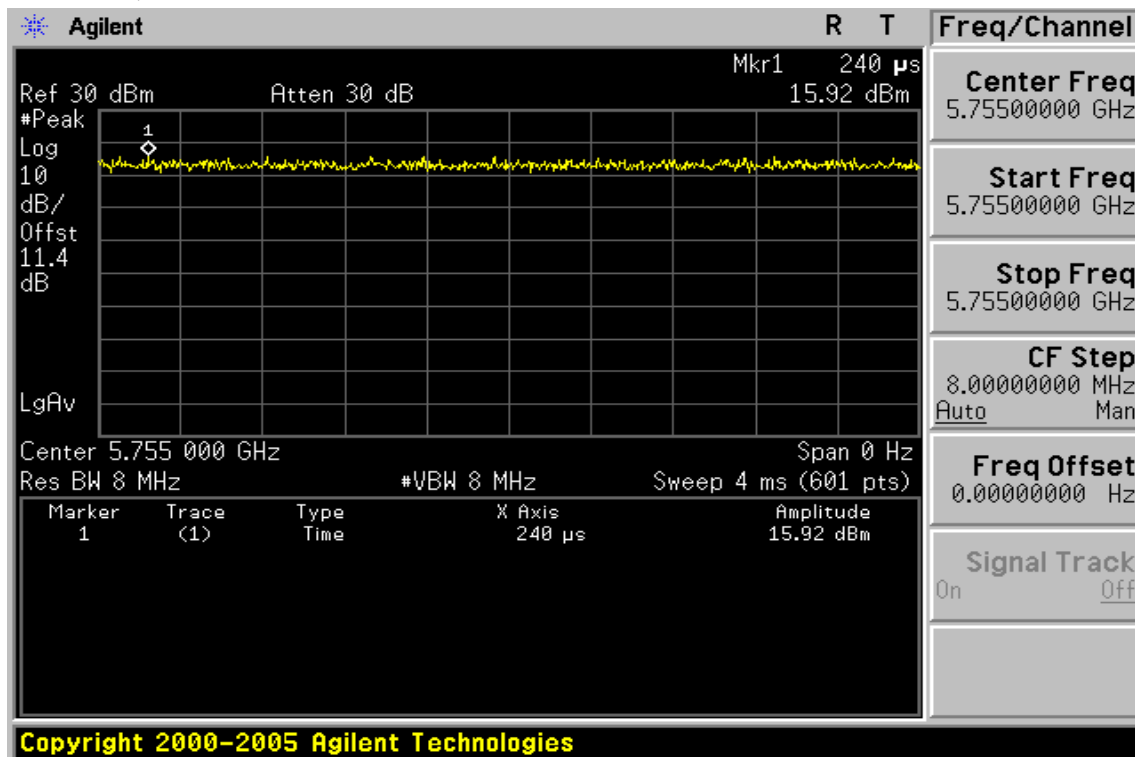
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## 802.11n HT40, CH Low 5510 MHz



## 802.11n HT40, CH Low 5755 MHz



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## 5. MEASUREMENT UNCERTAINTY

| Test Items                                      | Uncertainty             |
|-------------------------------------------------|-------------------------|
| AC Power Line Conducted Emission                | +/- 2.586 dB            |
| 26dB 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 –<br>Conducted Measurement | +/- 1.55 dB             |
| Transmission in case of Absence of Information  | +/- 1.55 dB             |
| Frequency Stability                             | +/- 123.36 Hz           |
| Temperature                                     | +/- 0.8 °C              |
| Humidity                                        | +/- 4.7 %               |
| DC / AC Power Source                            | DC= +/- 1%, AC=+/- 0.2% |

### Radiated Spurious Emission:

|                                                              |                            |
|--------------------------------------------------------------|----------------------------|
| Measurement uncertainty<br>(Polarization : <b>Vertical</b> ) | 30MHz - 180MHz: +/- 3.37dB |
|                                                              | 180MHz -417MHz: +/- 3.19dB |
|                                                              | 0.417GHz-1GHz: +/- 3.19dB  |
|                                                              | 1GHz - 18GHz: +/- 4.04dB   |
|                                                              | 18GHz - 40GHz: +/- 4.04dB  |

|                                                                |                            |
|----------------------------------------------------------------|----------------------------|
| Measurement uncertainty<br>(Polarization : <b>Horizontal</b> ) | 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<br>MHz                                                                                                                                                       | Limits<br>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<br>1.The lower limit shall apply at the transition frequencies<br>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<br>TYPE            | MFR        | MODEL<br>NUMBER         | SERIAL<br>NUMBER | LAST<br>CAL. | CAL DUE.   |
| EMI Test Receiver            | R&S        | ESCI7                   | 100760           | 05/26/2014   | 05/25/2015 |
| LISN                         | Rolf-Heine | NNB-2/16Z               | 99012            | 03/26/2014   | 03/25/2015 |
| LISN                         | FCC        | FCC-LISN-50/250-25-2-01 | 04034            | 03/19/2014   | 03/18/2015 |
| Coaxial Cables               | N/A        | WK CE Cable             | N/A              | 11/26/2013   | 11/25/2014 |

### 6.3. EUT Setup

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.4:2009 & ANSI C63.10:2009.
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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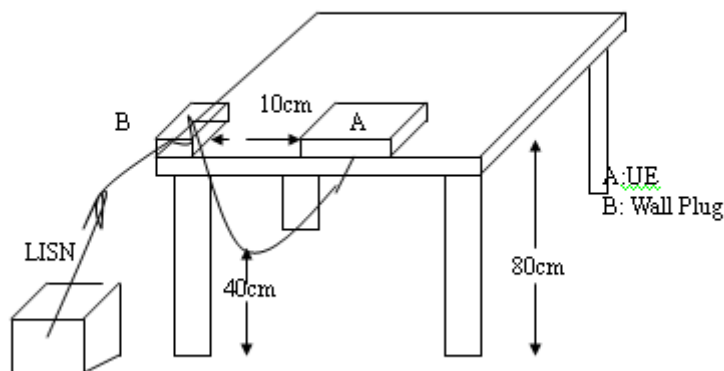
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#### 6.4. Test SET-UP (Block Diagram of Configuration)



#### 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 that closet to the limit

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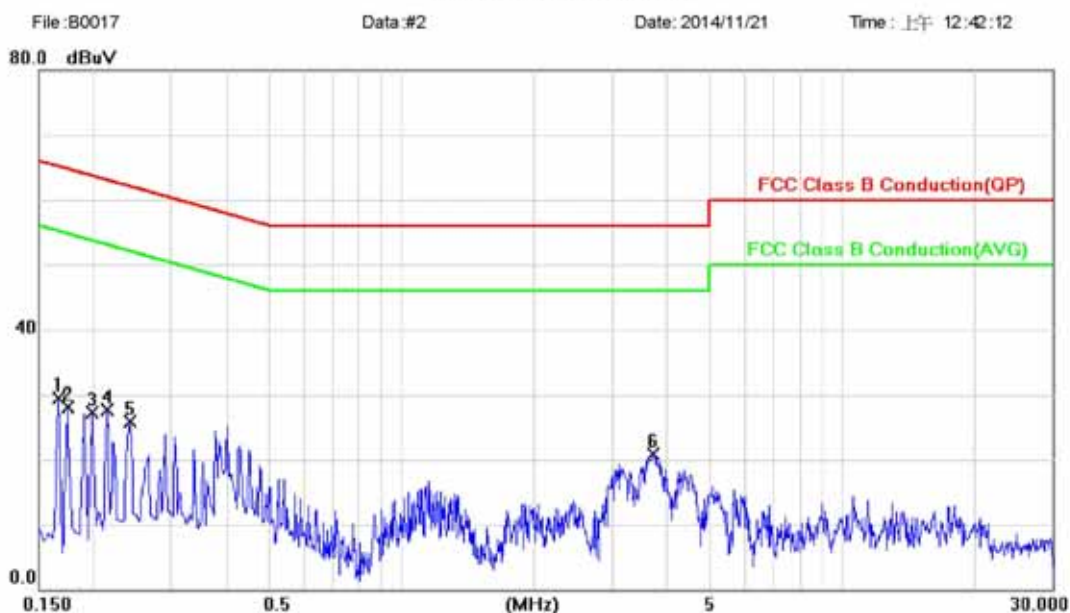
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## AC POWER LINE CONDUCTED EMISSION TEST DATA

|                 |                |           |      |            |               |
|-----------------|----------------|-----------|------|------------|---------------|
| Operation Mode: | Operation mode |           |      | Test Date: | Nov. 21, 2014 |
| Temperature:    | 26             | Humidity: | 60 % | Test By:   | Tin           |
| Model No.:      | EP800          |           |      |            |               |

Site: ConductionRoom Phase: L1 Temperature: 24 °C  
Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 66%  
Mode: Operation  
Note: Adapter: EP800

## Conducted Emission



| No. | Mk. | Freq.  | Reading | Correct | Measure- | Limit | Over   |          |         |
|-----|-----|--------|---------|---------|----------|-------|--------|----------|---------|
|     |     | MHz    | Level   | Factor  | ment     |       |        | Detector | Comment |
|     |     |        | dBuV    | dB      | dBuV     | dBuV  | dB     |          |         |
| 1   |     | 0.1660 | 29.45   | 0.05    | 29.50    | 65.16 | -35.66 | peak     |         |
| 2   |     | 0.1740 | 28.02   | 0.05    | 28.07    | 64.77 | -36.70 | peak     |         |
| 3   |     | 0.1980 | 27.23   | 0.06    | 27.29    | 63.69 | -36.40 | peak     |         |
| 4   |     | 0.2140 | 27.56   | 0.06    | 27.62    | 63.05 | -35.43 | peak     |         |
| 5   |     | 0.2420 | 25.82   | 0.06    | 25.88    | 62.03 | -36.15 | peak     |         |
| 6 * |     | 3.7260 | 20.68   | 0.17    | 20.85    | 56.00 | -35.15 | peak     |         |

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Site: ConductionRoom

Phase: N

Temperature: 24 °C

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 66%

Mode: CDV Phone

Note: Adapter EP800

## Conducted Emission



| No. | Mk. | Freq.  | Reading Level | Correct Factor | Measurement | Limit | Over   | Detector | Comment |
|-----|-----|--------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz    | dBuV          | dB             | dBuV        | dBuV  | dB     |          |         |
| 1   |     | 0.1740 | 28.73         | 0.05           | 28.78       | 64.77 | -35.99 | peak     |         |
| 2   |     | 0.1820 | 29.13         | 0.06           | 29.19       | 64.39 | -35.20 | peak     |         |
| 3   |     | 0.2060 | 26.22         | 0.06           | 26.28       | 63.37 | -37.09 | peak     |         |
| 4   |     | 0.2300 | 26.62         | 0.06           | 26.68       | 62.45 | -35.77 | peak     |         |
| 5   | *   | 0.3900 | 29.53         | 0.07           | 29.60       | 58.06 | -28.46 | peak     |         |
| 6   |     | 3.7620 | 23.48         | 0.17           | 23.65       | 56.00 | -32.35 | peak     |         |

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## 7. 26dB & 6dB EMISSION BANDWIDTH MEASUREMENT

### 7.1 Standard Applicable

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

### 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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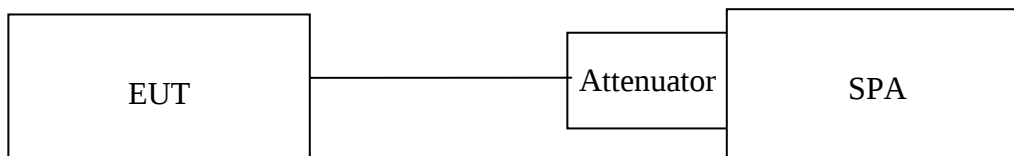
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### 7.3 Measurement Equipment Used:

| Conducted Emission Test Site |               |                 |               |            |            |
|------------------------------|---------------|-----------------|---------------|------------|------------|
| EQUIPMENT TYPE               | MFR           | MODEL NUMBER    | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
| Power Meter                  | Anritsu       | ML2495A         | 1005007       | 01/13/2014 | 01/12/2015 |
| Power Sensor                 | Anritsu       | MA2411B         | 917032        | 01/13/2014 | 01/12/2015 |
| 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             | 02/27/2014 | 02/26/2015 |
| Low Loss Cable               | HUBER+SUHNER  | SUCOFLEX 104PEA | N/A           | 01/03/2014 | 01/02/2015 |
| Attenuator                   | Mini-Circuit  | BW-S10W2+       | 002           | 02/27/2014 | 02/26/2015 |
| Splitter                     | Agilent       | 11636B          | N/A           | 02/27/2014 | 02/26/2015 |

### 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            | 20.455                   | 13.11           |
| 5220            | 19.741                   | 12.95           |
| 5240            | 19.347                   | 12.87           |

802.11a, 5250~5350 MHz

| Frequency (MHz) | 26dB Bandwidth (B) (MHz) | 10 Log (B) (dB) |
|-----------------|--------------------------|-----------------|
| 5260            | 19.383                   | 12.87           |
| 5300            | 20.052                   | 13.02           |
| 5320            | 20.007                   | 13.01           |

802.11a, 5470~5725 MHz

| Frequency (MHz) | 26dB Bandwidth (B) (MHz) | 10 Log (B) (dB) |
|-----------------|--------------------------|-----------------|
| 5500            | 19.157                   | 12.82           |
| 5580            | 19.501                   | 12.90           |
| 5700            | 19.976                   | 13.01           |

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802.11n HT20, 5150~5250 MHz

| Frequency (MHz) | 26dB Bandwidth (B) (MHz) | 10 Log (B) (dB) |
|-----------------|--------------------------|-----------------|
| 5180            | 19.837                   | 12.97           |
| 5220            | 19.744                   | 12.95           |
| 5240            | 19.652                   | 12.93           |

802.11n HT20, 5250~5350 MHz

| Frequency (MHz) | 26dB Bandwidth (B) (MHz) | 10 Log (B) (dB) |
|-----------------|--------------------------|-----------------|
| 5260            | 19.727                   | 12.95           |
| 5300            | 19.710                   | 12.95           |
| 5320            | 19.748                   | 12.96           |

802.11n HT20, 5470~5725 MHz

| Frequency (MHz) | 26dB Bandwidth (B) (MHz) | 10 Log (B) (dB) |
|-----------------|--------------------------|-----------------|
| 5500            | 19.814                   | 12.97           |
| 5580            | 19.770                   | 12.96           |
| 5700            | 19.842                   | 12.98           |

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802.11n HT40, 5150~5250 MHz

| Frequency<br>(MHz) | 26dB Bandwidth (B)<br>(MHz) | 10 Log (B)<br>(dB) |
|--------------------|-----------------------------|--------------------|
| 5190               | 39.867                      | 16.01              |
| 5230               | 39.655                      | 15.98              |

802.11n HT40, 5250~5350 MHz

| Frequency<br>(MHz) | 26dB Bandwidth (B)<br>(MHz) | 10 Log (B)<br>(dB) |
|--------------------|-----------------------------|--------------------|
| 5270               | 39.542                      | 15.97              |
| 5310               | 39.826                      | 16.00              |

802.11n HT40, 5470~5725 MHz

| Frequency<br>(MHz) | 26dB Bandwidth (B)<br>(MHz) | 10 Log (B)<br>(dB) |
|--------------------|-----------------------------|--------------------|
| 5510               | 39.878                      | 16.01              |
| 5550               | 39.688                      | 15.99              |
| 5670               | 39.756                      | 15.99              |

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**6dB Bandwidth**

802.11a, 5725~5850 MHz

| Frequency<br>(MHz) | 6dB Bandwidth (B)<br>(MHz) | 10 Log (B)<br>(dB) |
|--------------------|----------------------------|--------------------|
| 5745               | 16.439                     | 12.16              |
| 5785               | 16.412                     | 12.15              |
| 5825               | 16.420                     | 12.15              |

802.11n HT20, 5725~5850 MHz

| Frequency<br>(MHz) | 6dB Bandwidth (B)<br>(MHz) | 10 Log (B)<br>(dB) |
|--------------------|----------------------------|--------------------|
| 5745               | 17.667                     | 12.47              |
| 5785               | 17.643                     | 12.47              |
| 5825               | 17.642                     | 12.47              |

802.11n HT40, 5725~5850 MHz

| Frequency<br>(MHz) | 6dB Bandwidth (B)<br>(MHz) | 10 Log (B)<br>(dB) |
|--------------------|----------------------------|--------------------|
| 5755               | 36.397                     | 15.61              |
| 5795               | 36.388                     | 15.61              |

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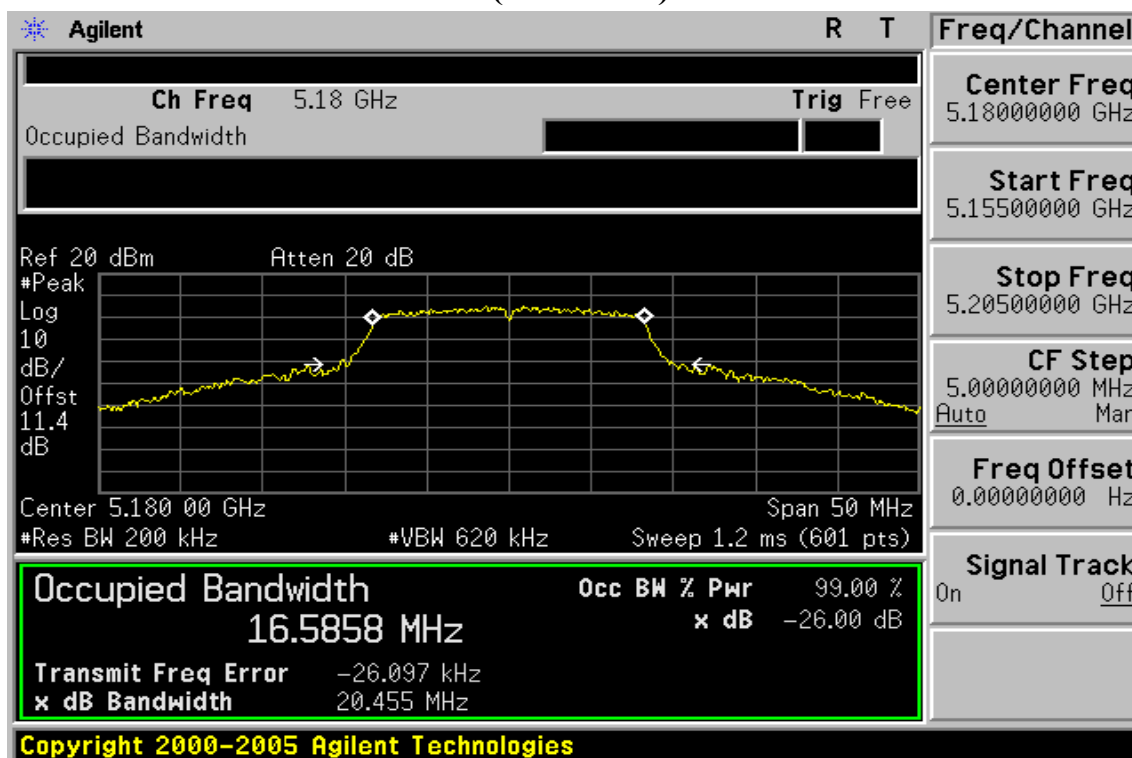
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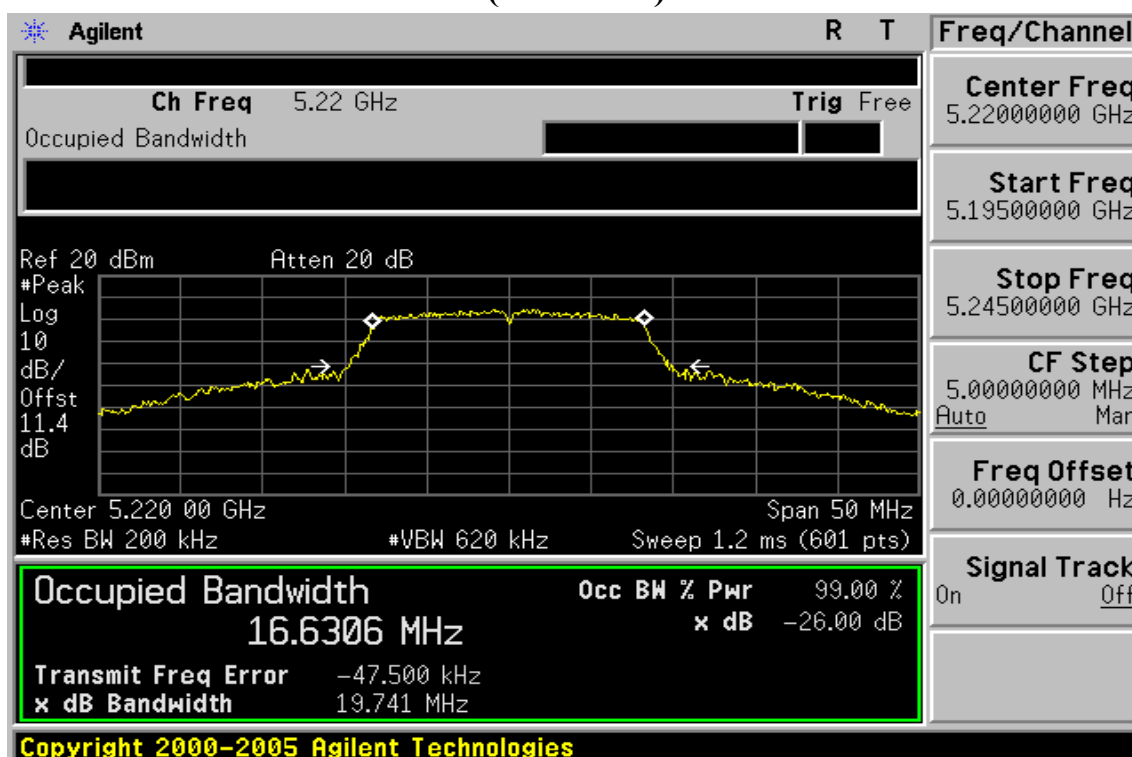
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## 802.11a, 5150~5250 MHz

### 26dB Band Width Test Data CH-Low (5180MHz)



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



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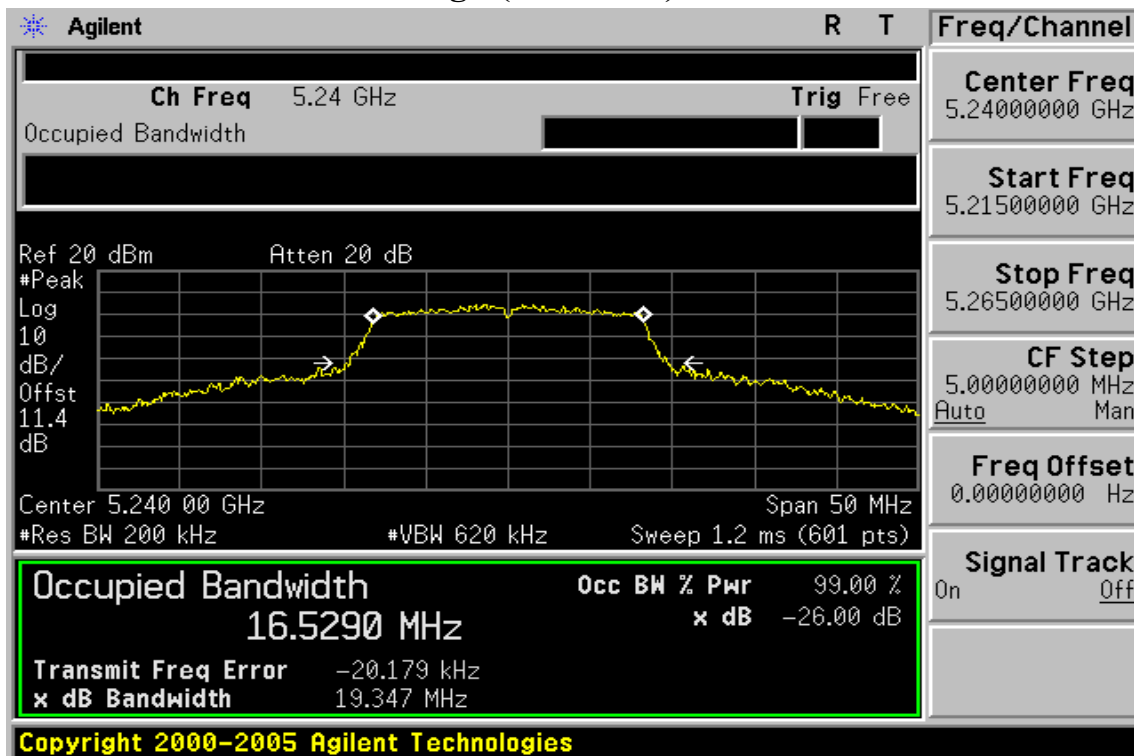
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## 26dB Band Width Test Data CH-High (5240MHz)



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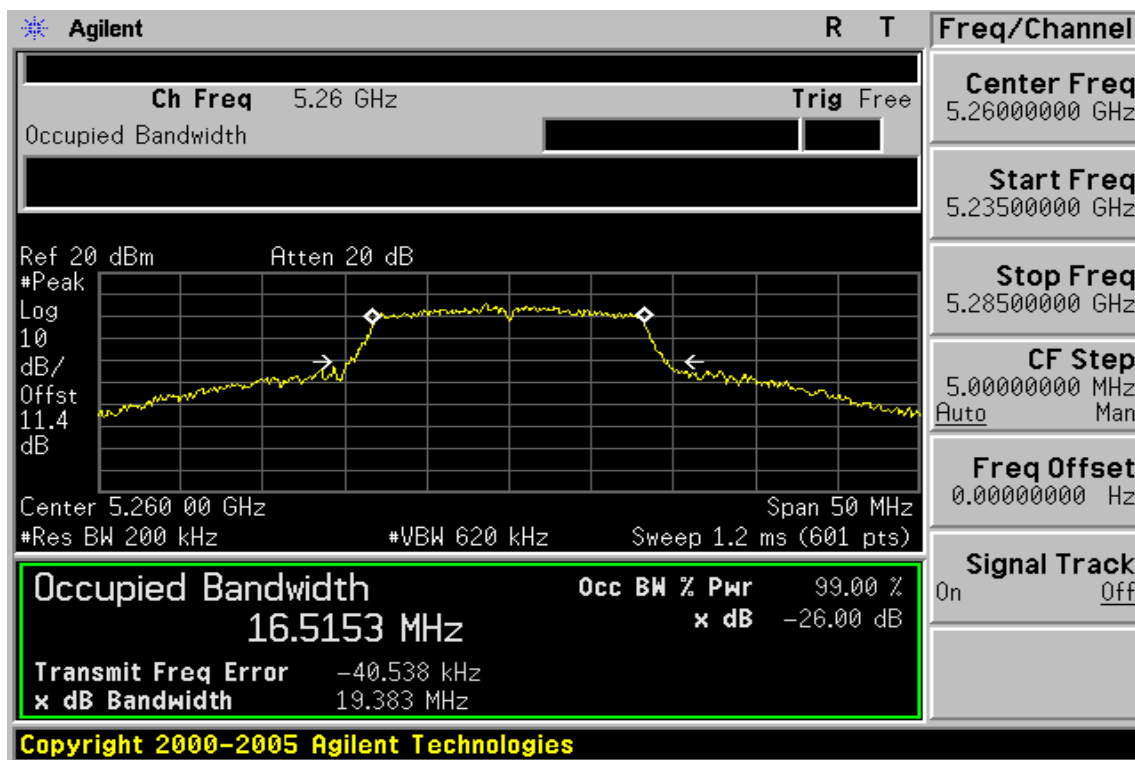
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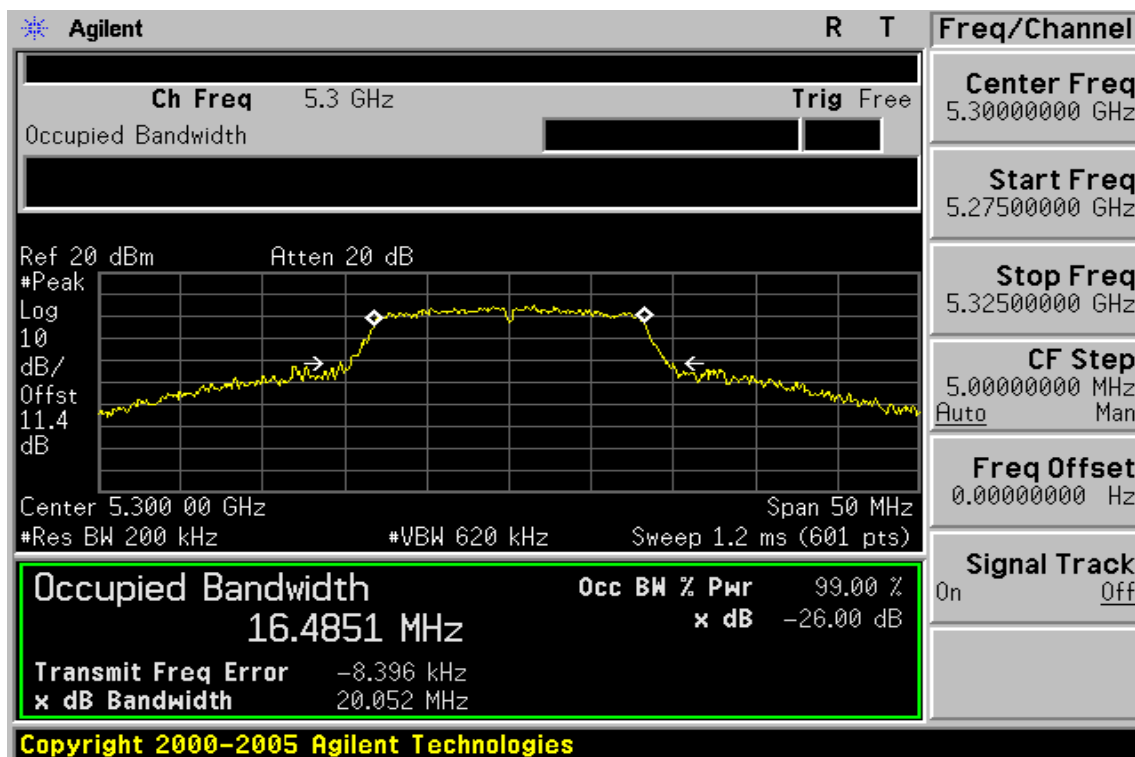
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## 802.11a, 5250~5350 MHz

### 26dB Band Width Test Data CH-Low (5260MHz)



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



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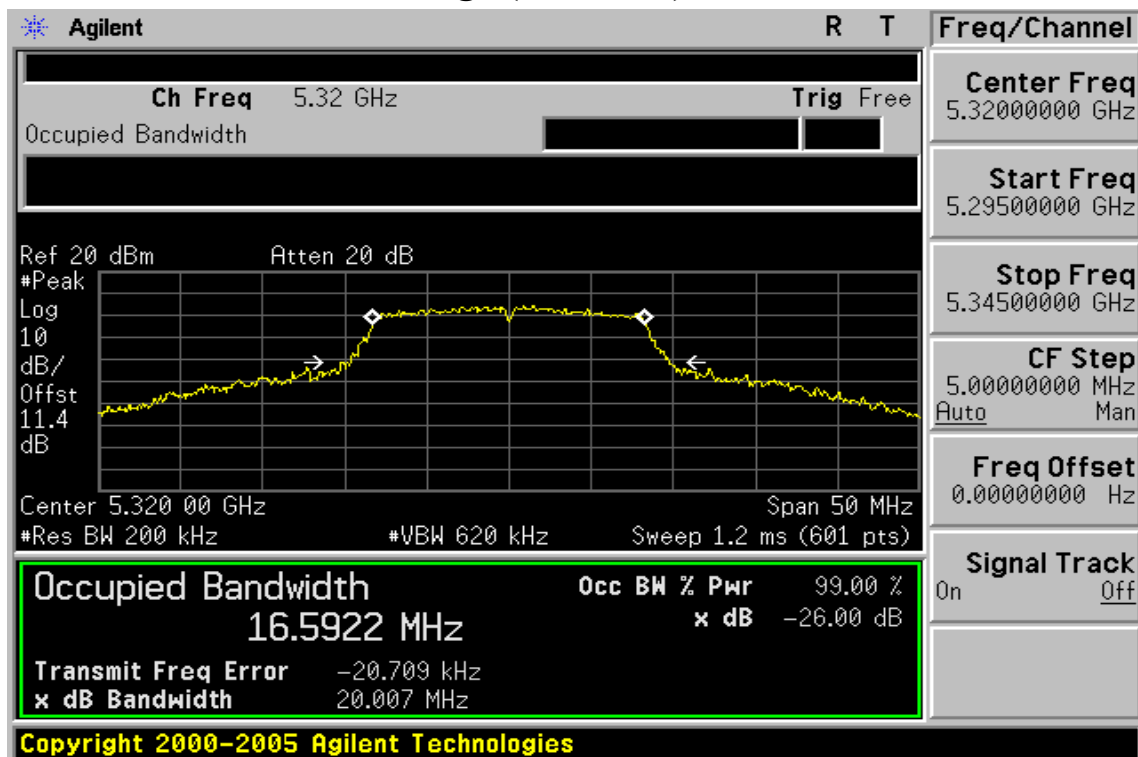
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## 26dB Band Width Test Data CH-High (5320MHz)



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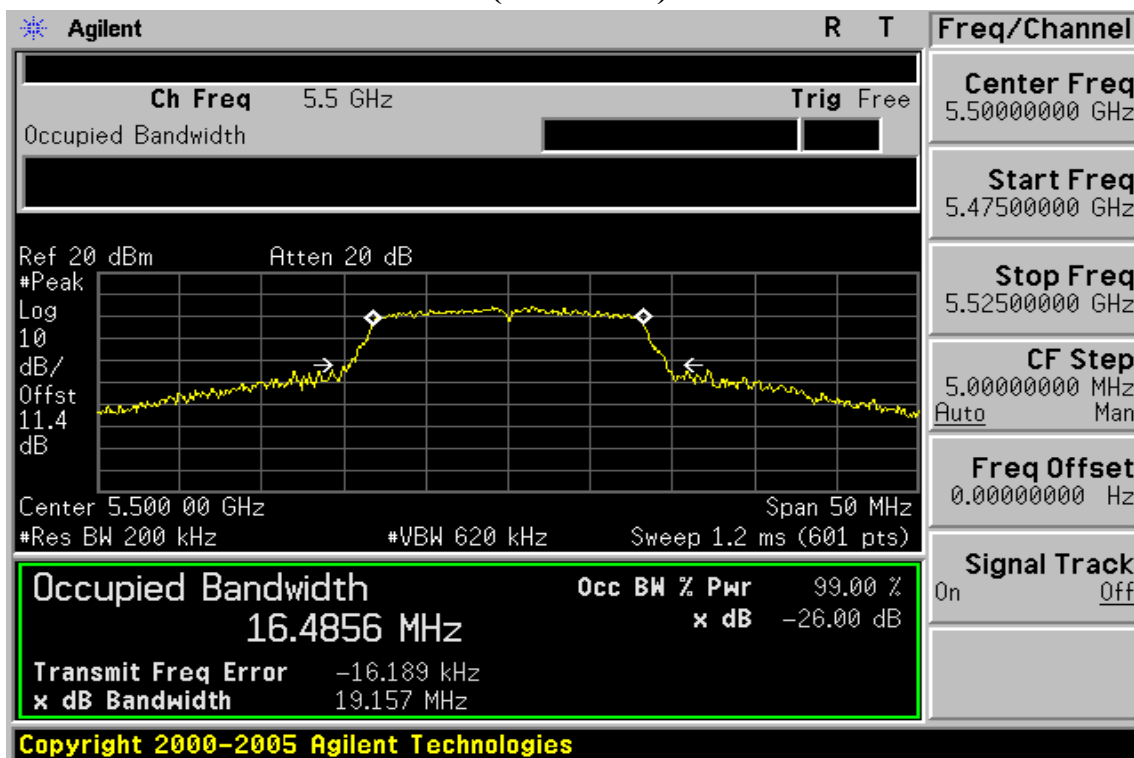
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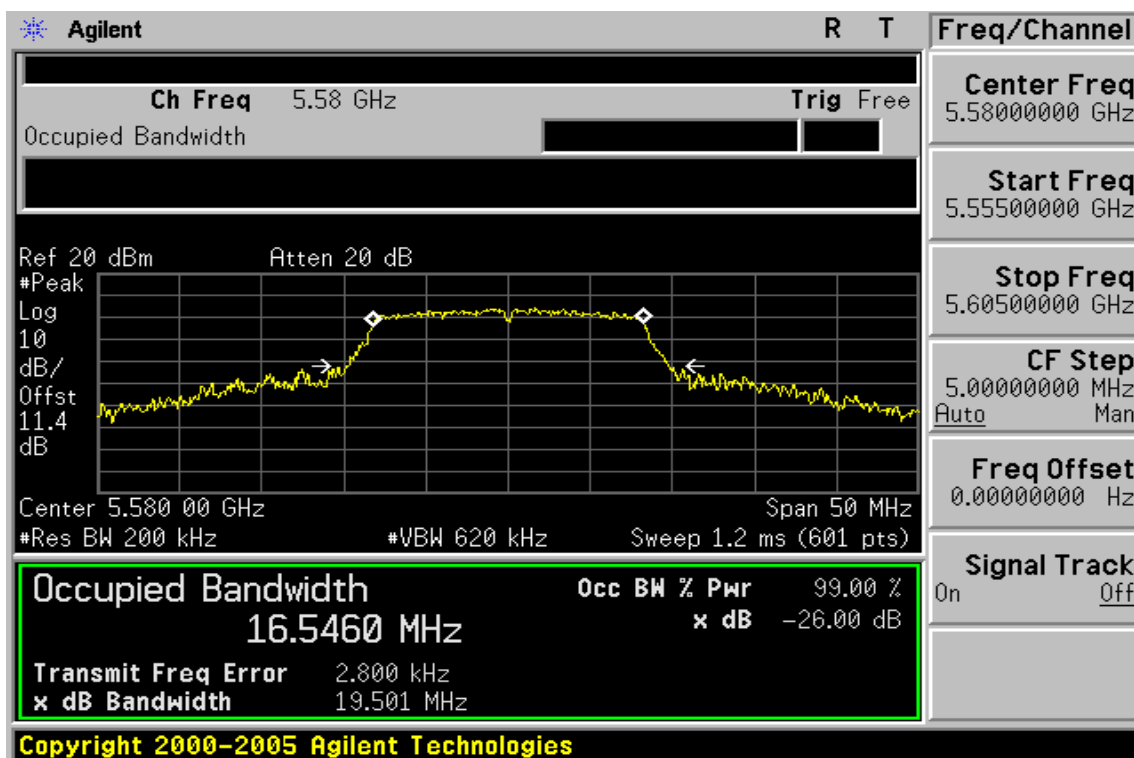
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## 802.11a, 5470~5725 MHz

### 26dB Band Width Test Data CH-Low (5500MHz)



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



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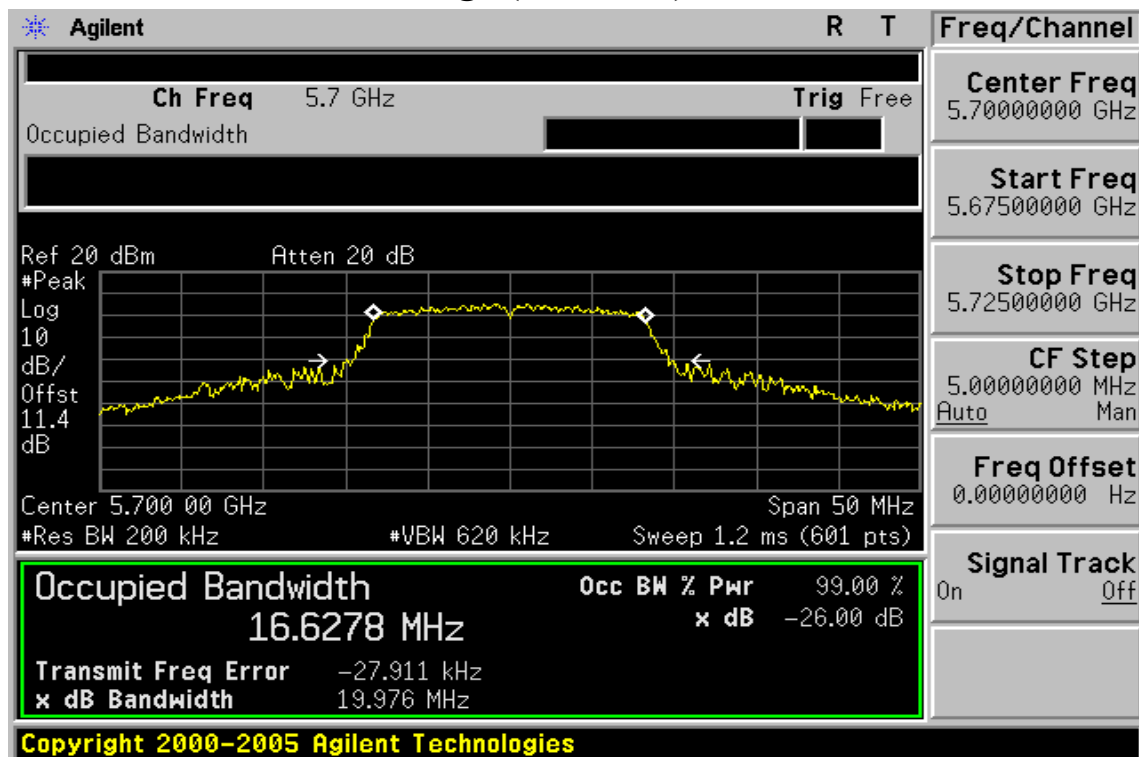
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## 26dB Band Width Test Data CH-High (5700MHz)



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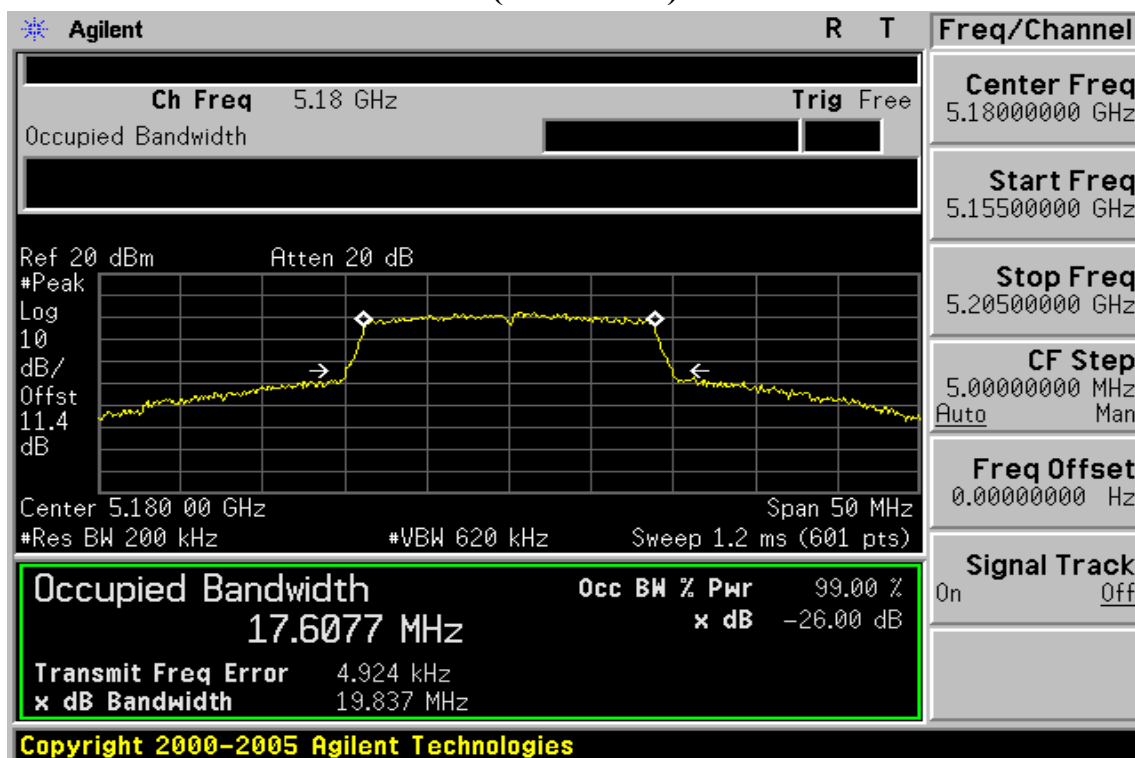
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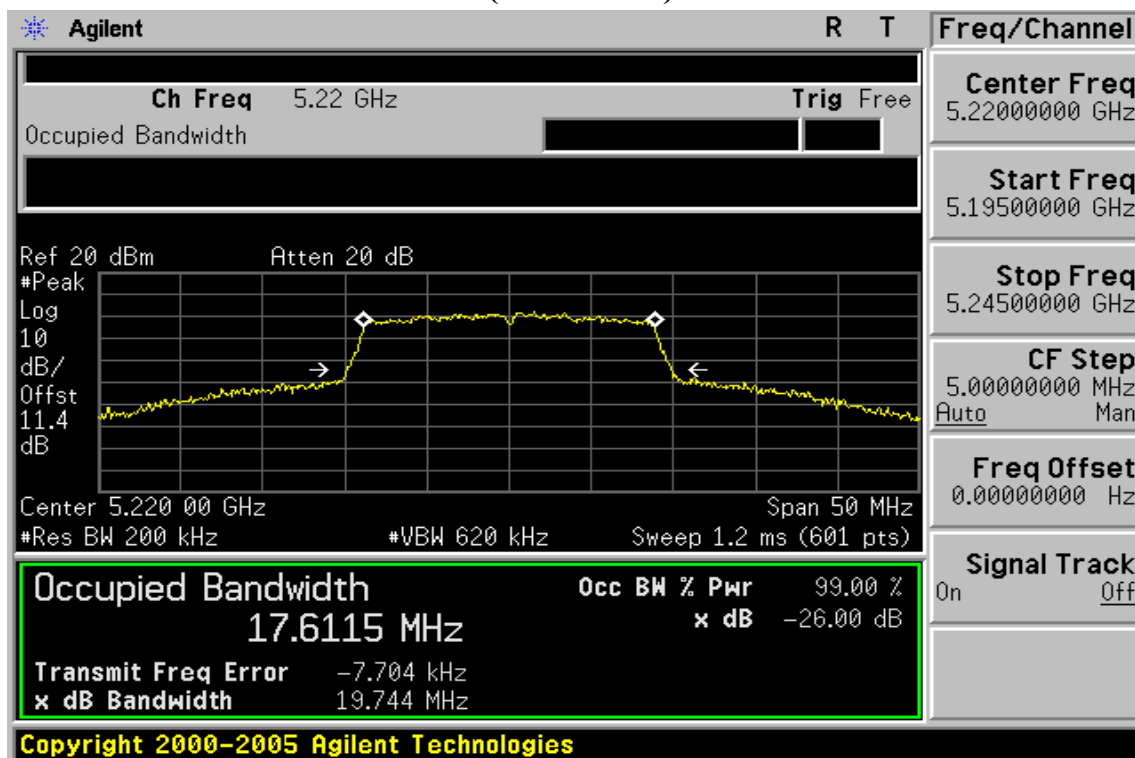
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## 802.11n HT20, 5150~5250 MHz

### 26dB Band Width Test Data CH-Low (5180 MHz)



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



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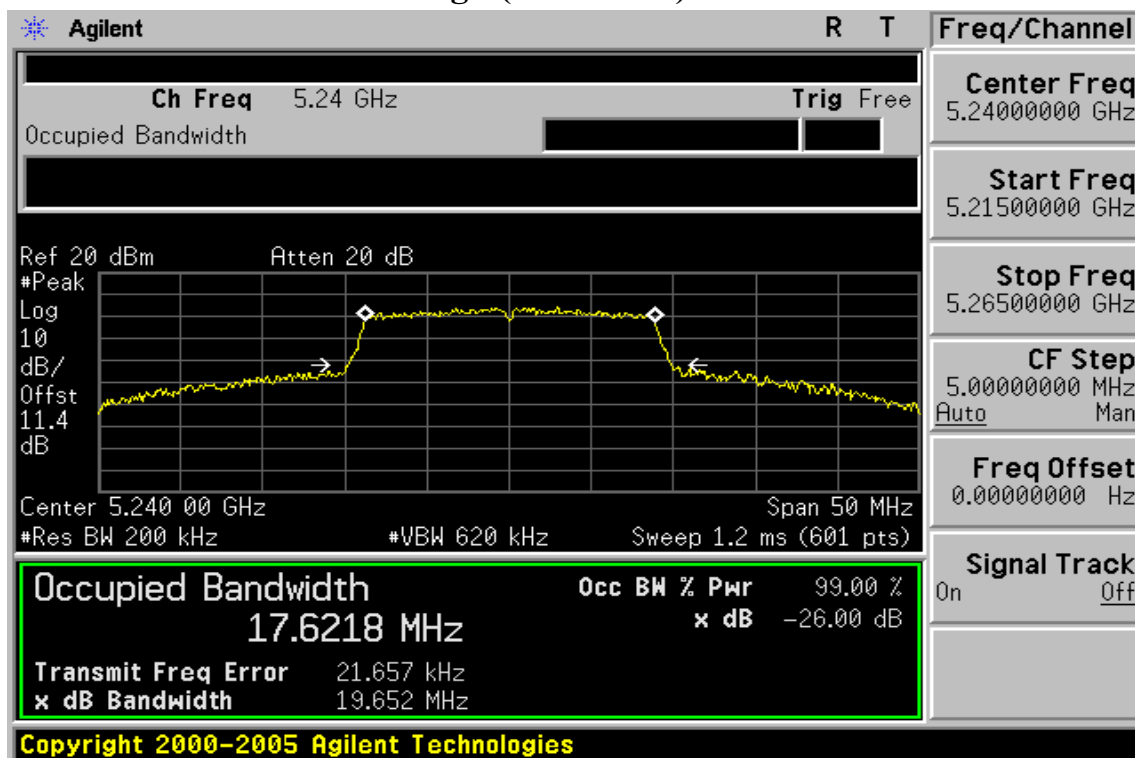
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## 26dB Band Width Test Data CH-High (5240 MHz)



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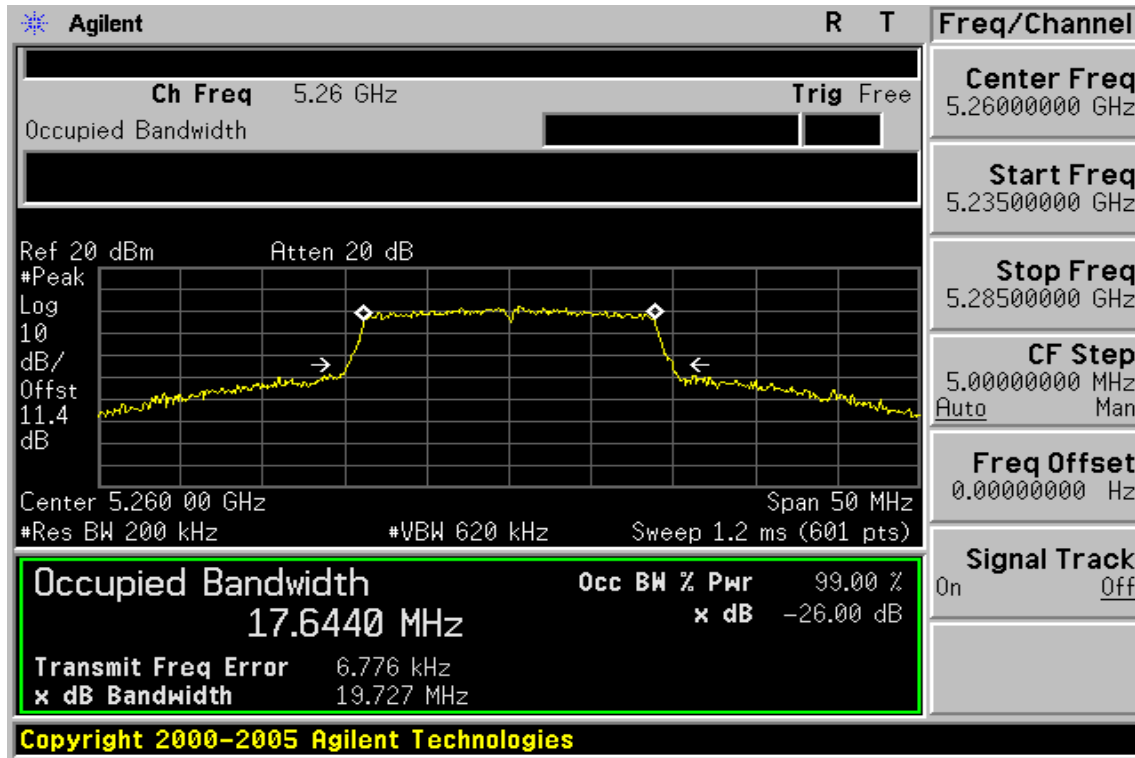
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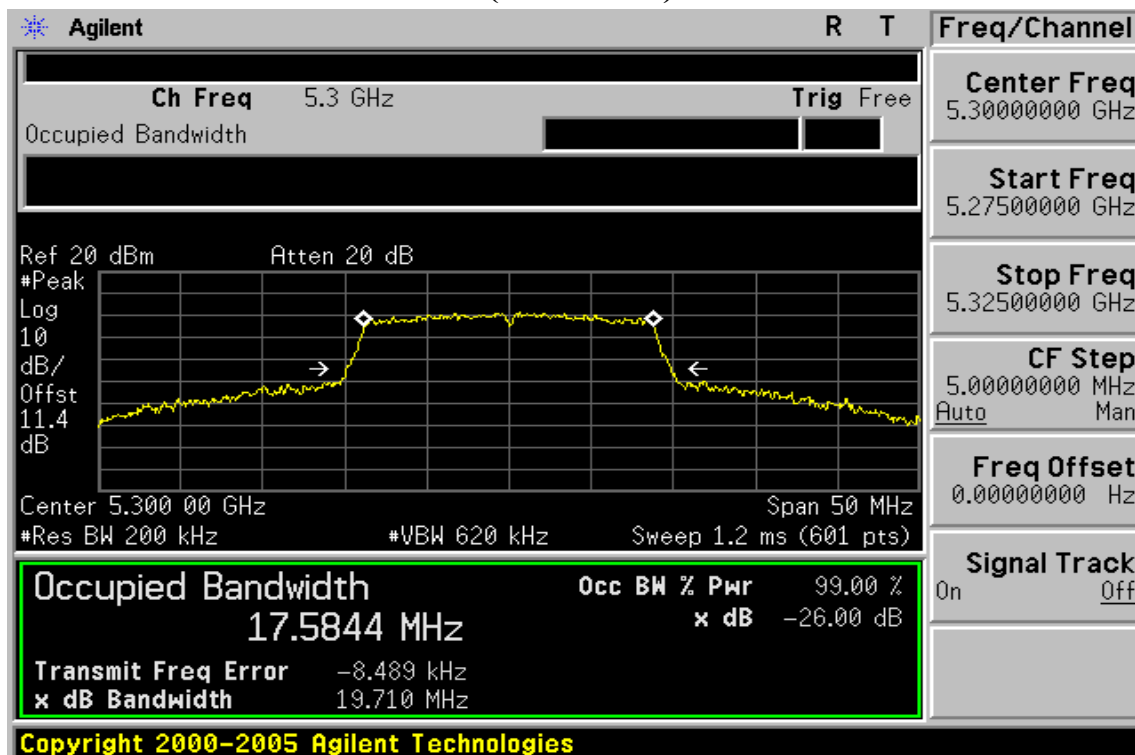
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## 802.11n HT20, 5250~5350 MHz

### 26dB Band Width Test Data CH-Low (5260 MHz)



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



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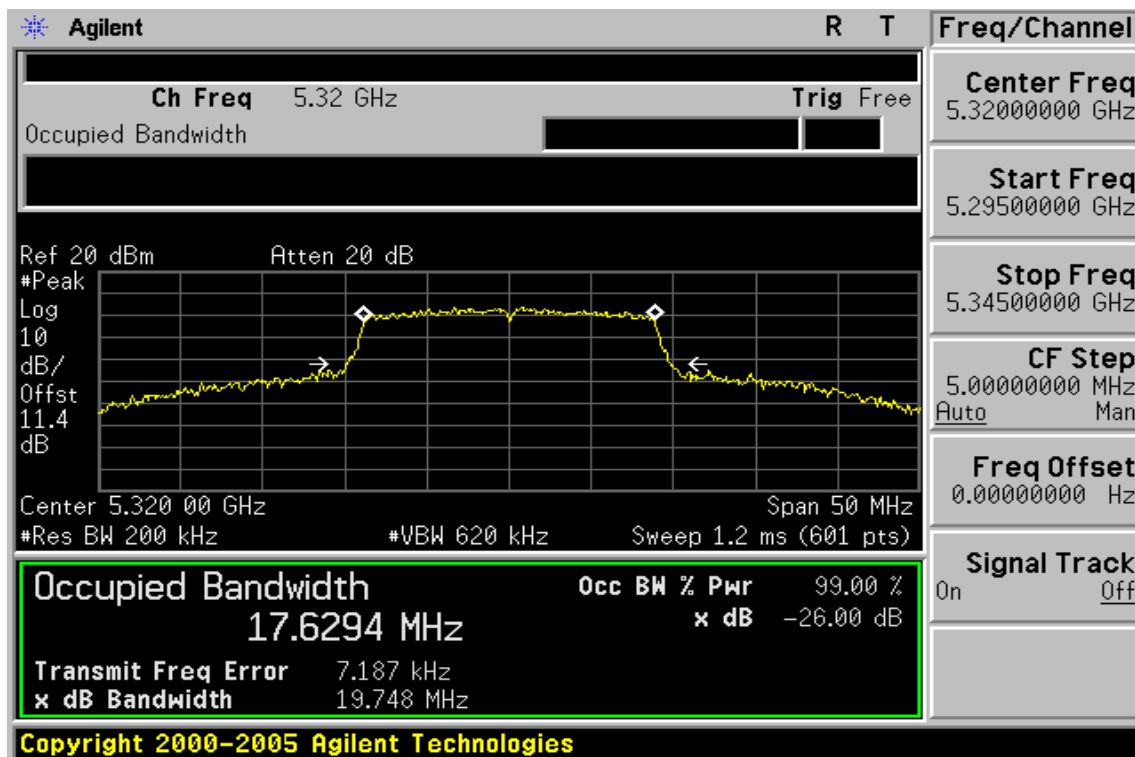
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## 26dB Band Width Test Data CH-High (5320 MHz)



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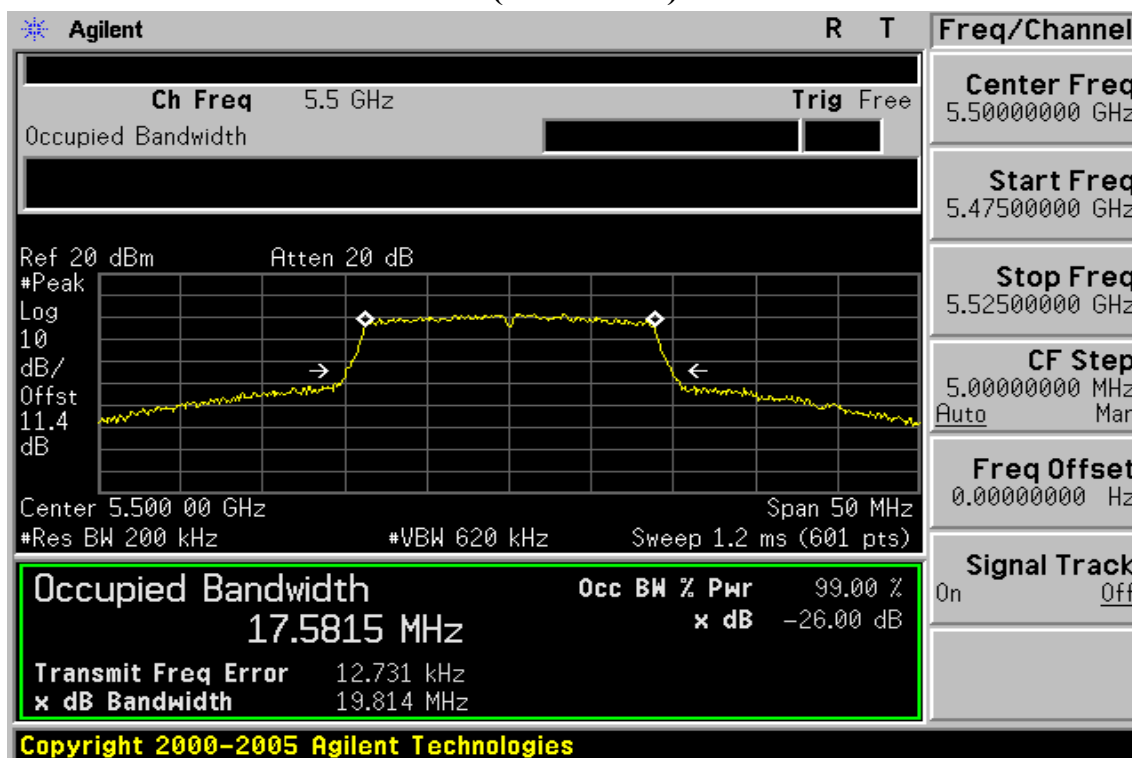
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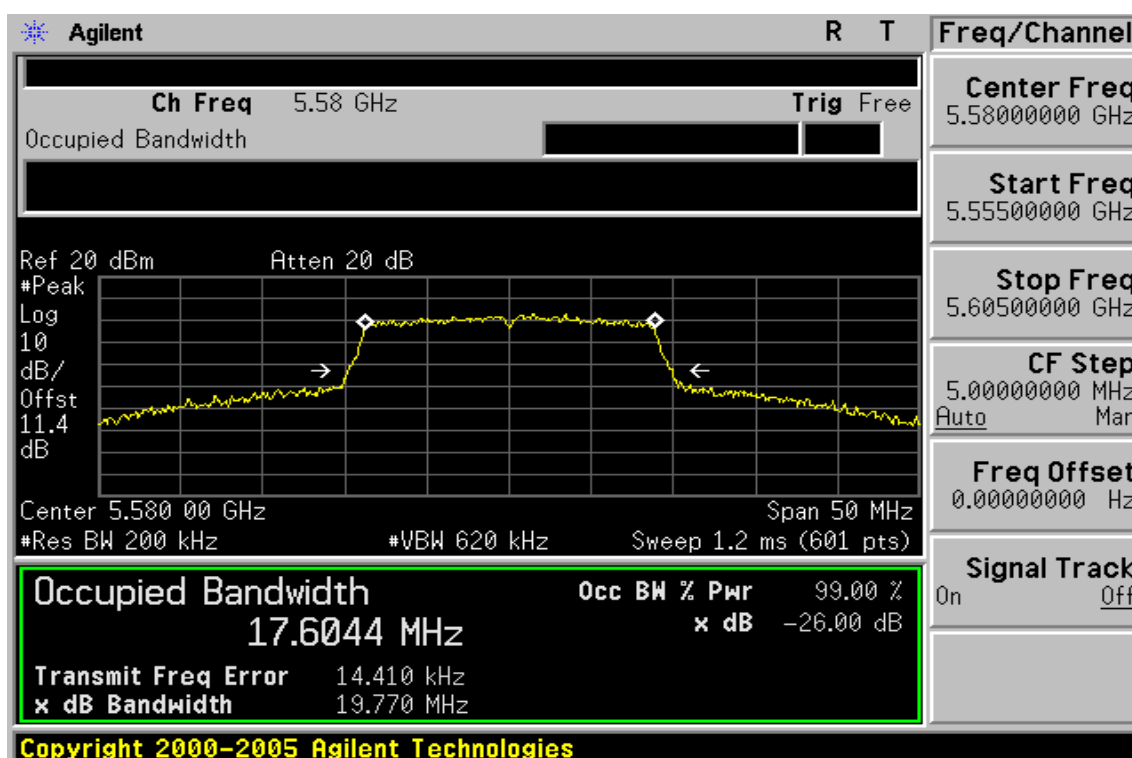
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## 802.11n HT20, 5470~5725 MHz

### 26dB Band Width Test Data CH-Low (5500 MHz)



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



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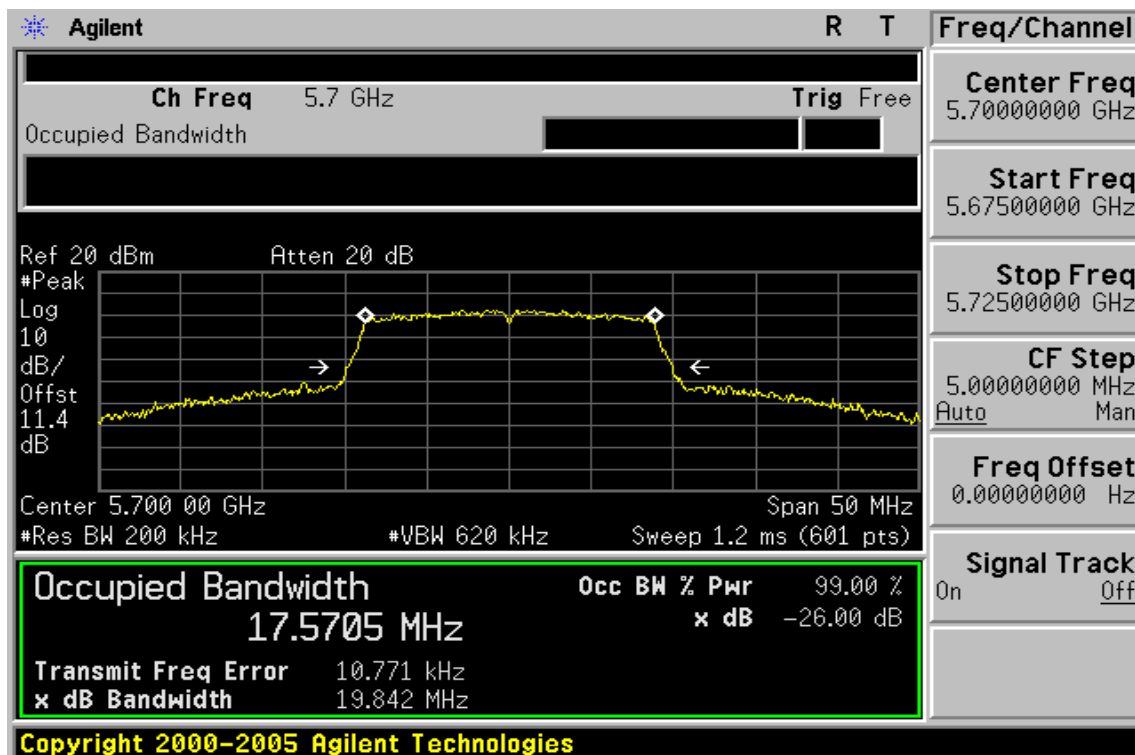
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## 26dB Band Width Test Data CH-High (5700 MHz)



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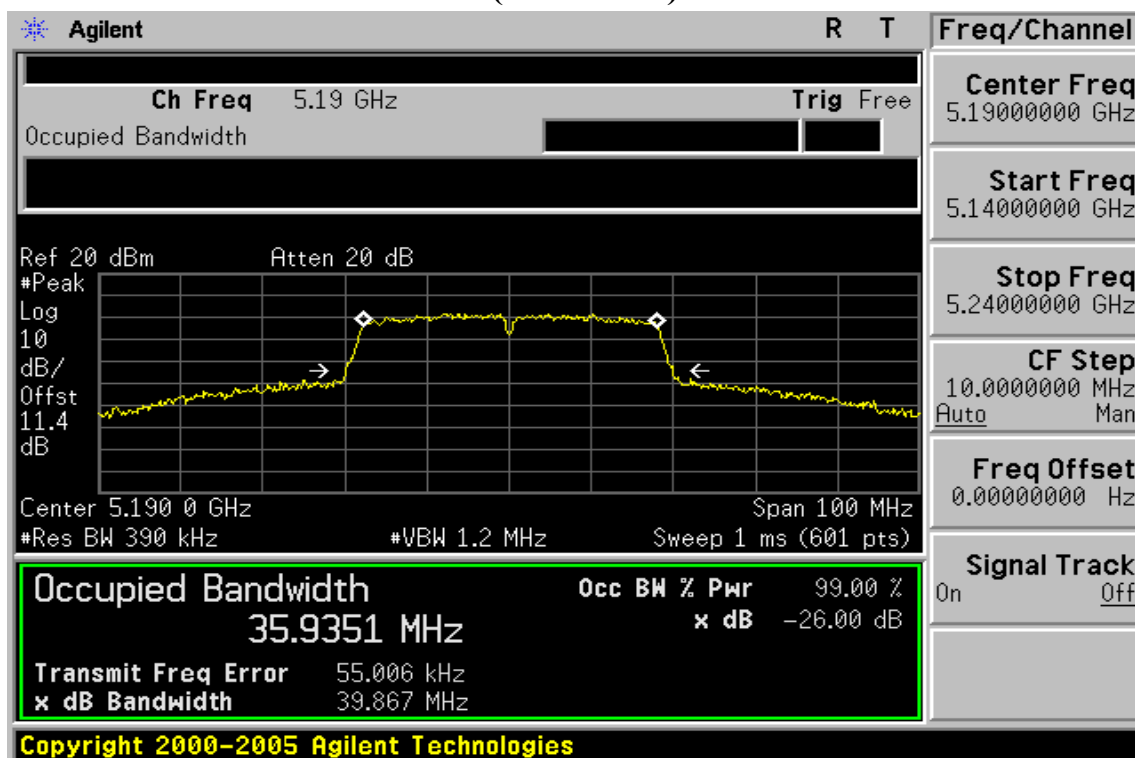
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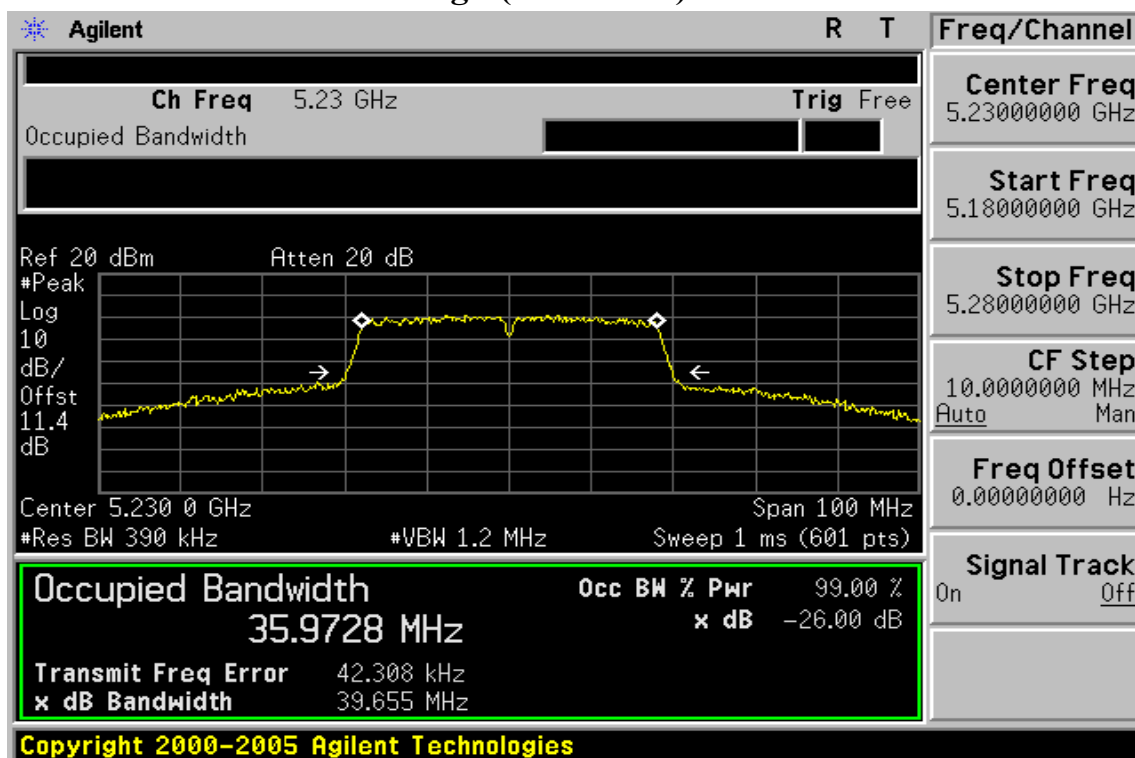
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## 802.11n HT40, 5150~5250 MHz

### 26dB Band Width Test Data CH-Low (5190 MHz)



### 26dB Band Width Test Data CH-High (5230 MHz)



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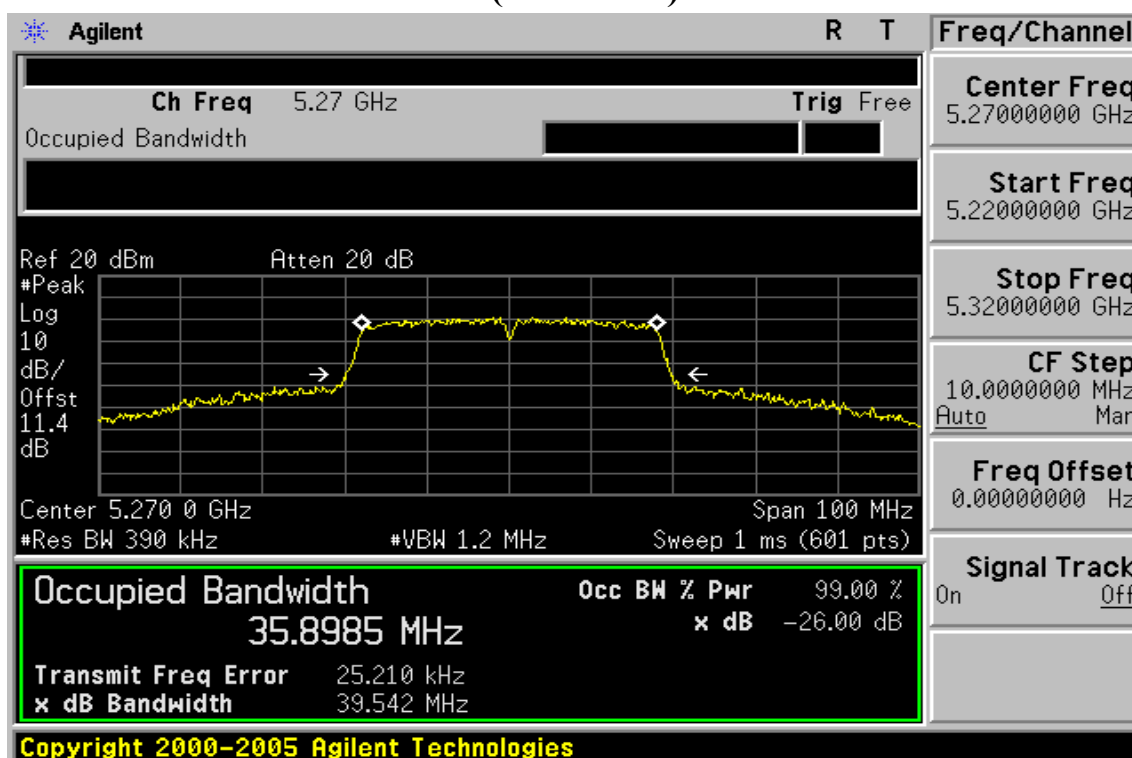
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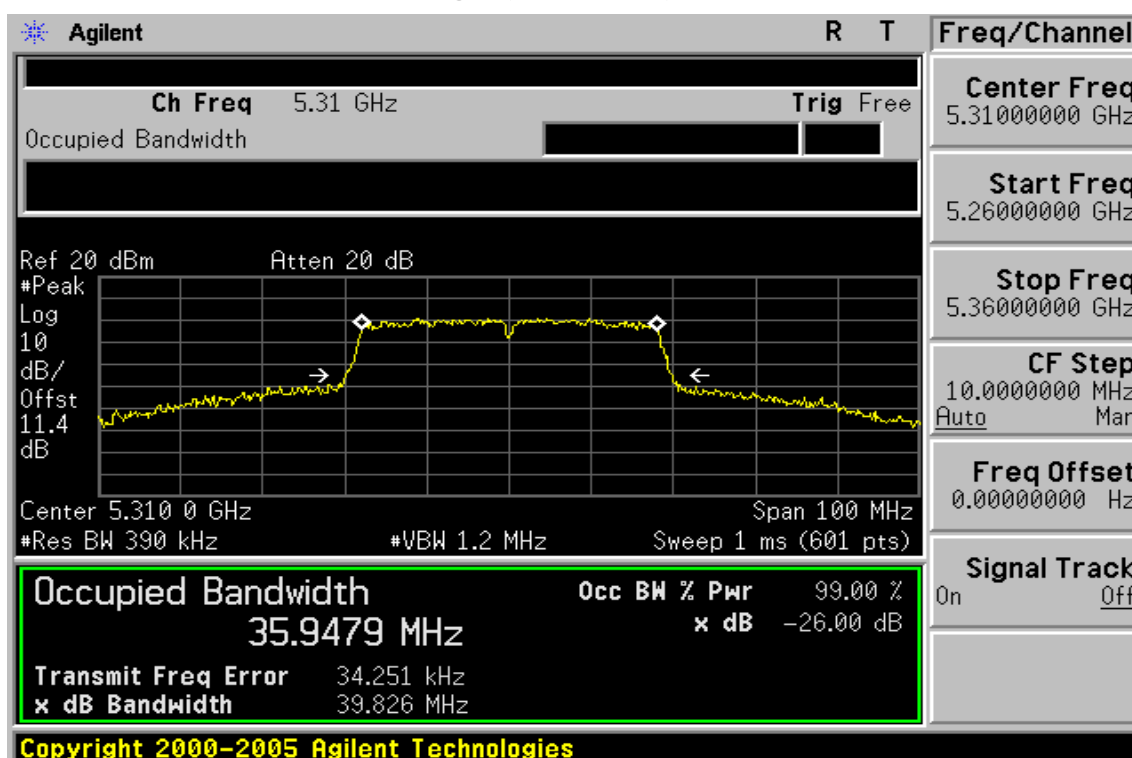
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## 802.11n HT40, 5250~5350 MHz

### 26dB Band Width Test Data CH-Low (5270 MHz)



### 26dB Band Width Test Data CH-High (5310MHz)



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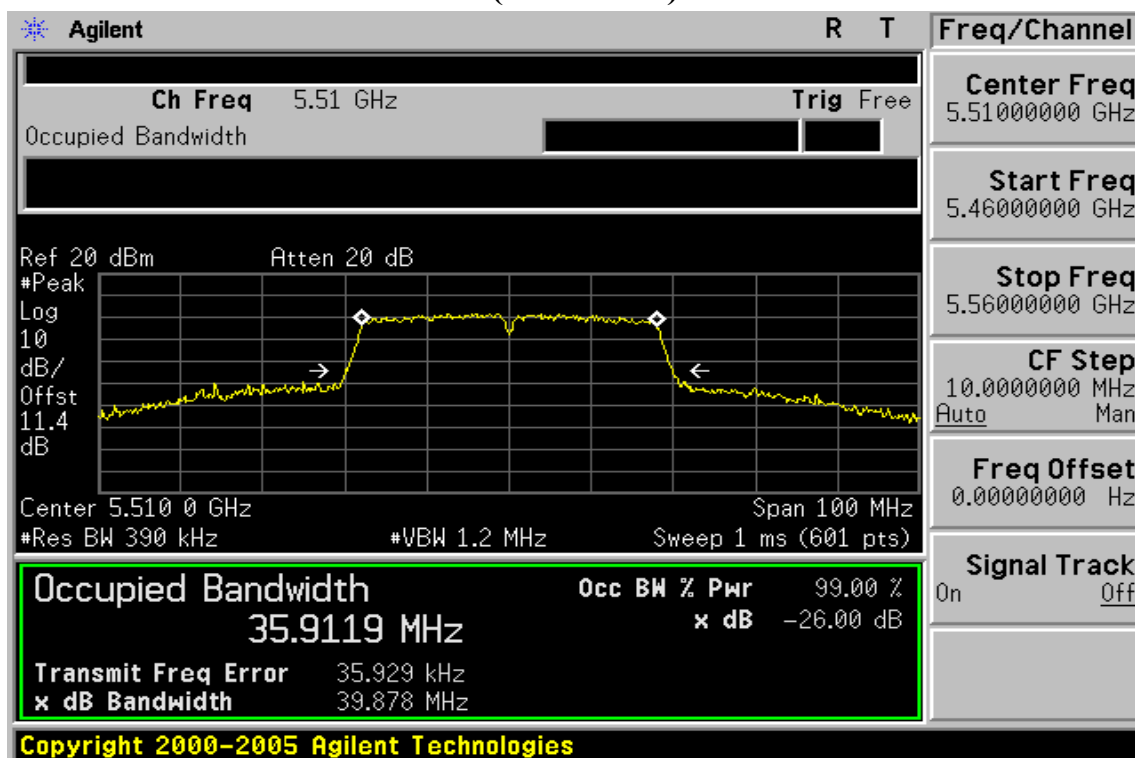
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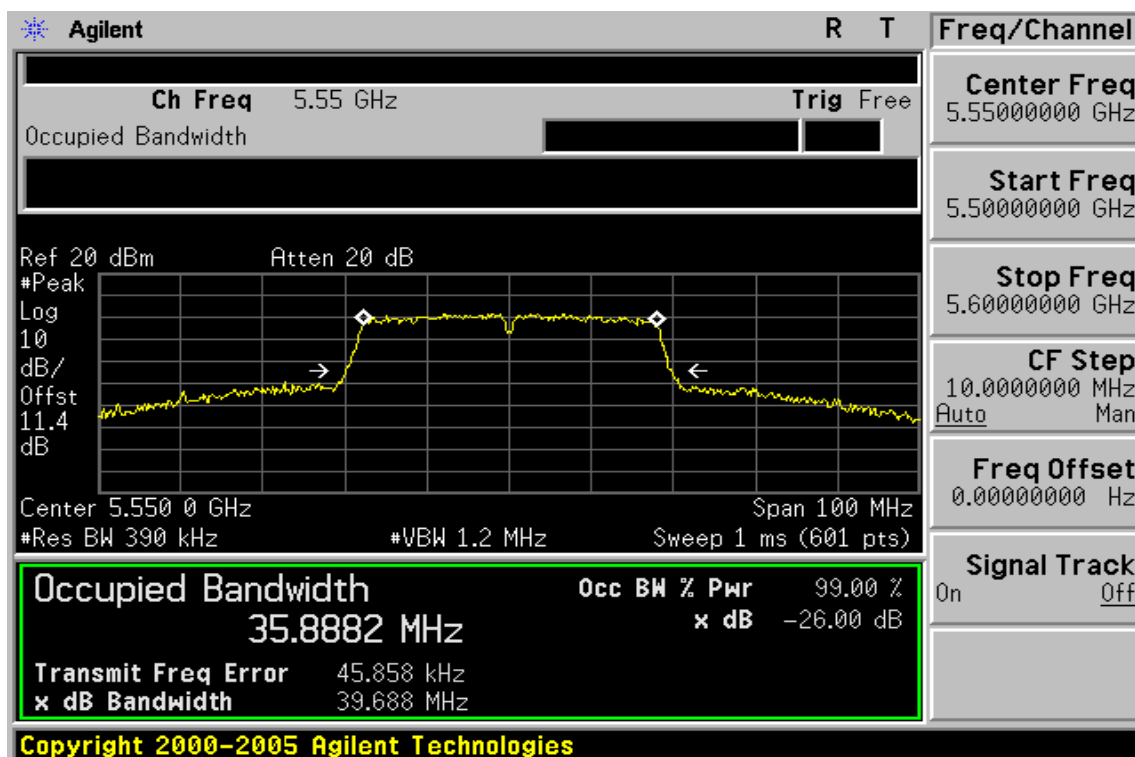
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## 802.11n HT40, 5470~5725 MHz

### 26dB Band Width Test Data CH-Low (5510 MHz)



### 26dB Band Width Test Data CH-Mid (5550 MHz)



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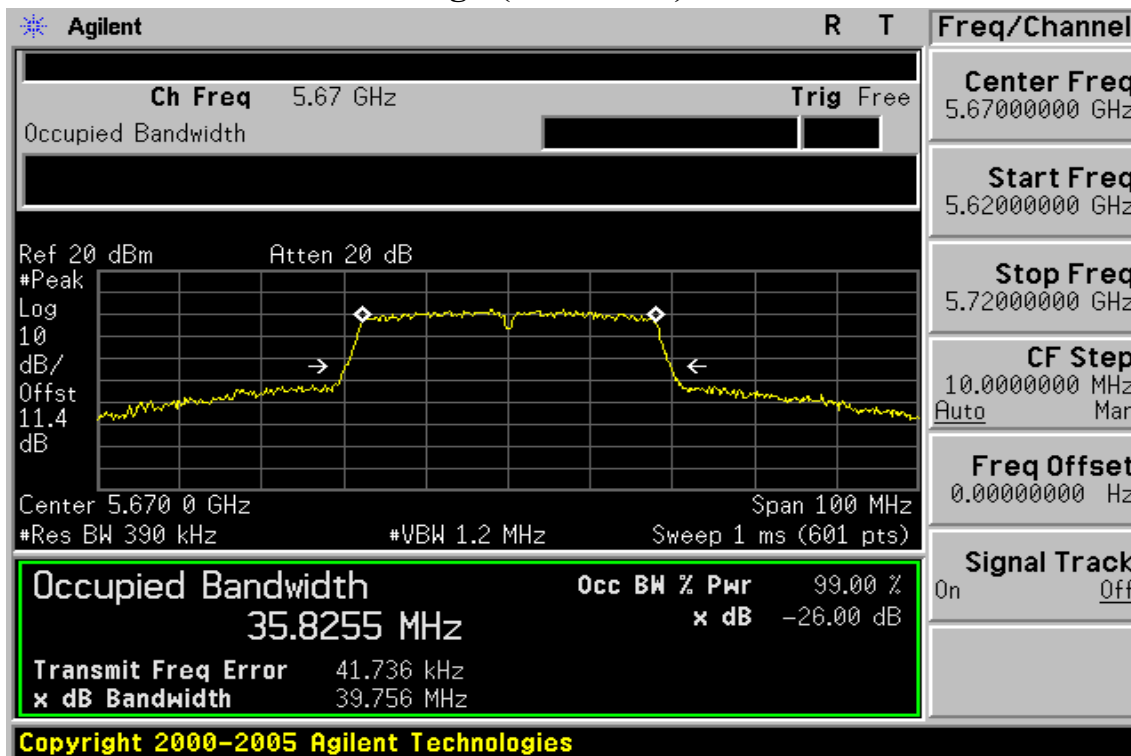
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## 26dB Band Width Test Data CH-High (5670 MHz)



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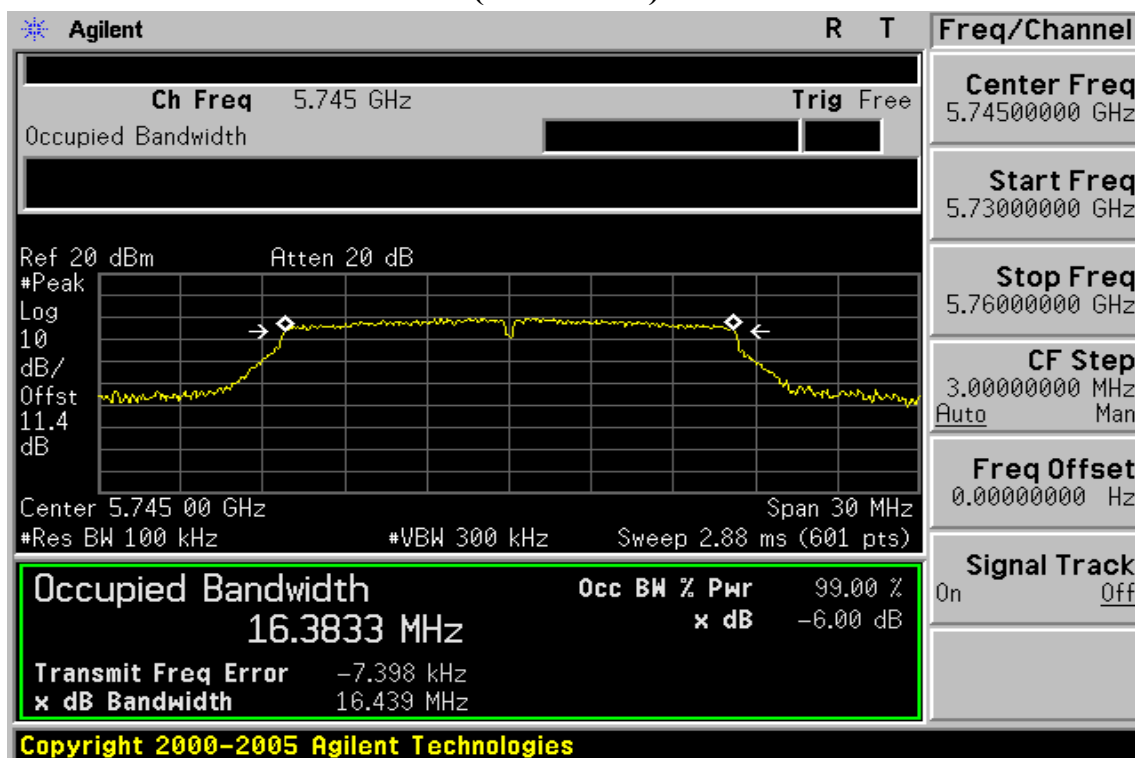
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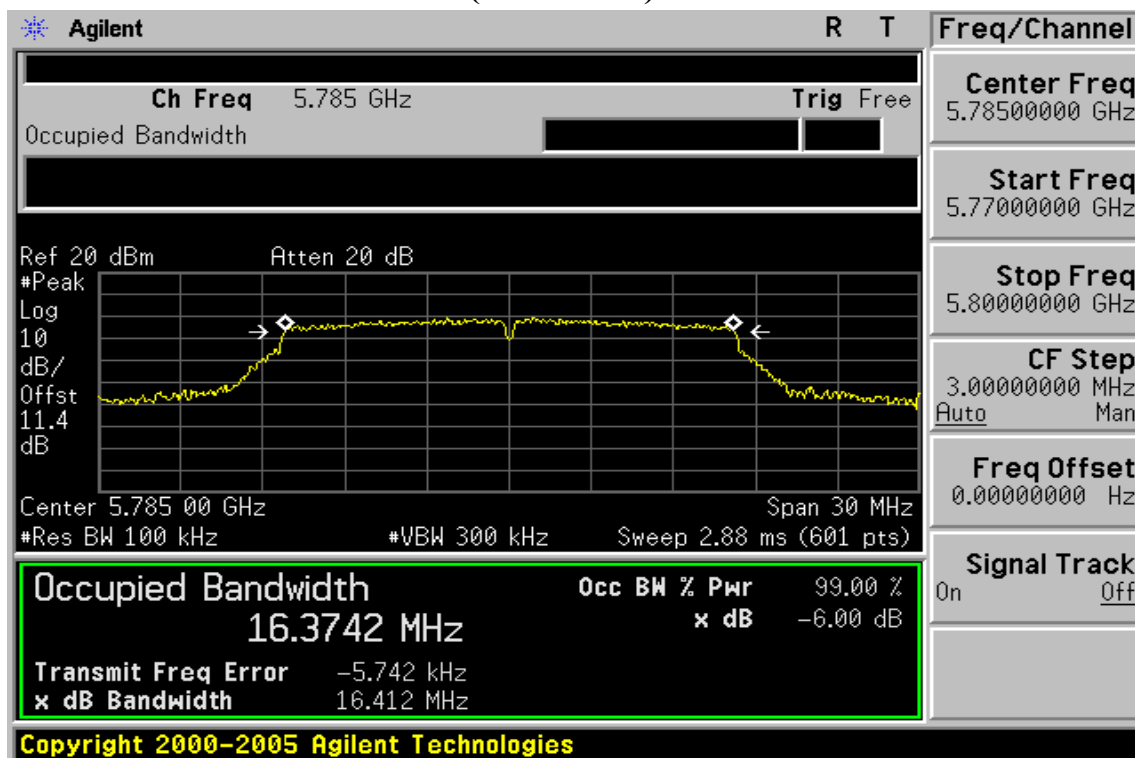
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## 802.11a, 5725~5850 MHz

### 6dB Band Width Test Data CH-Low (5745 MHz)



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



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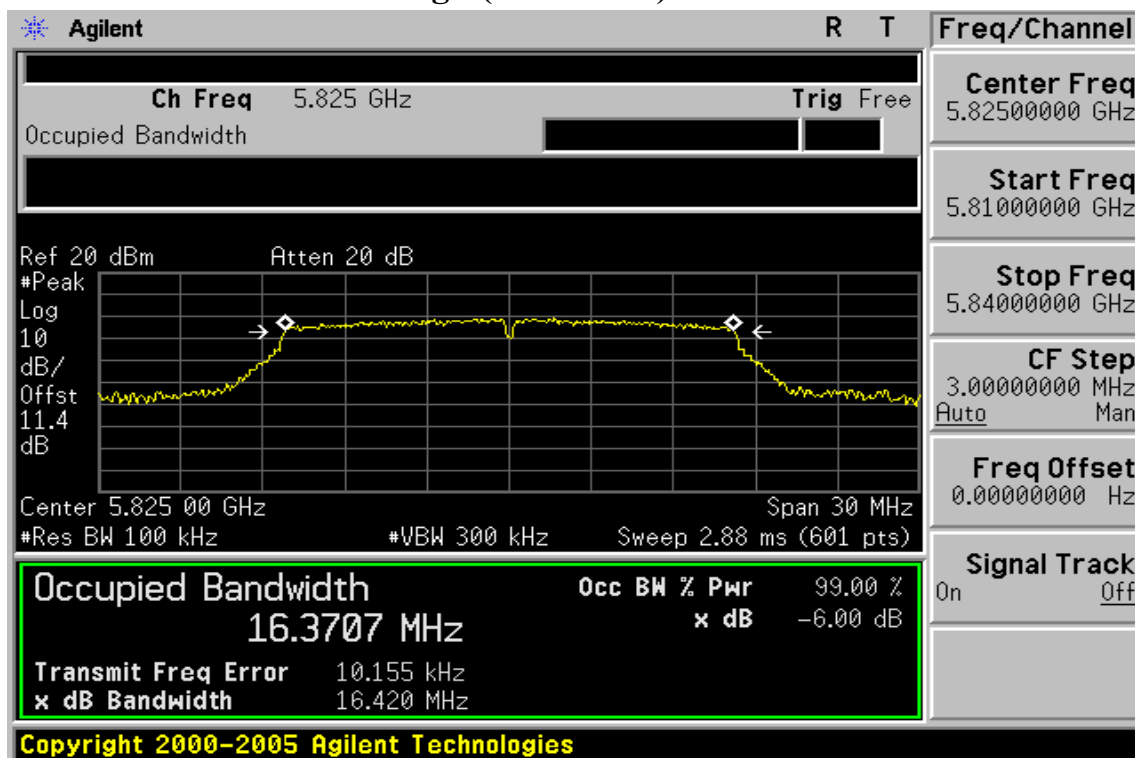
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## 6dB Band Width Test Data CH-High (5825 MHz)



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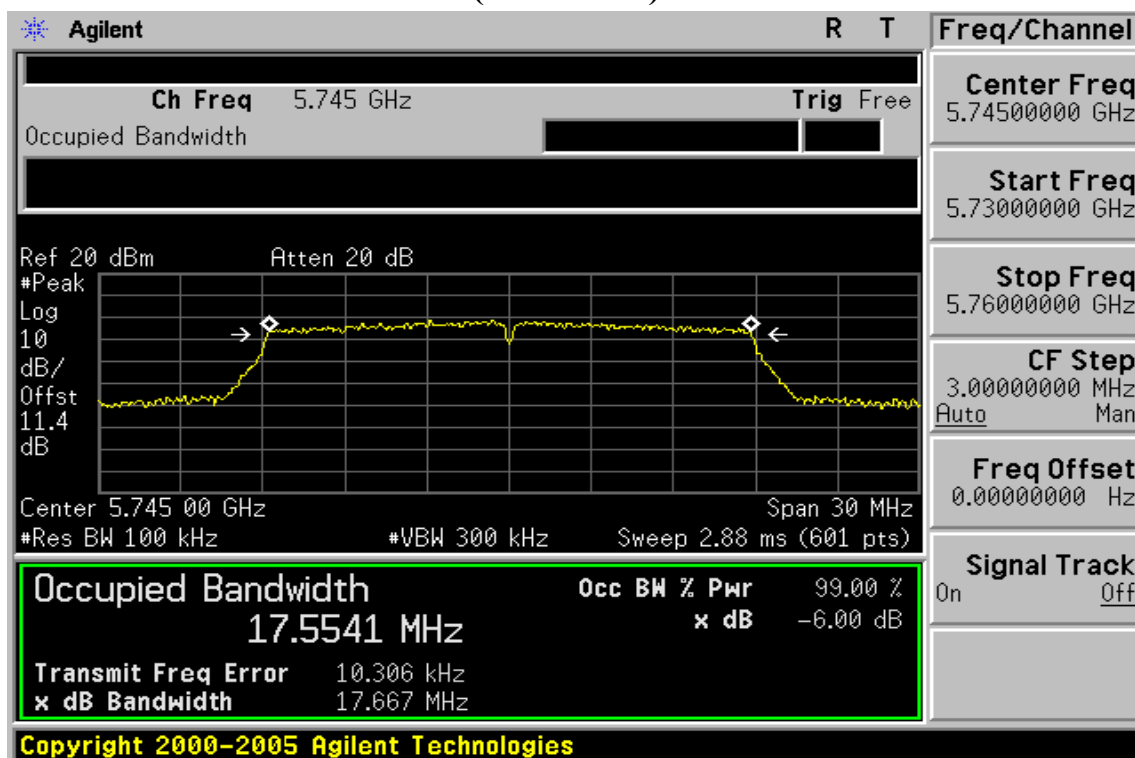
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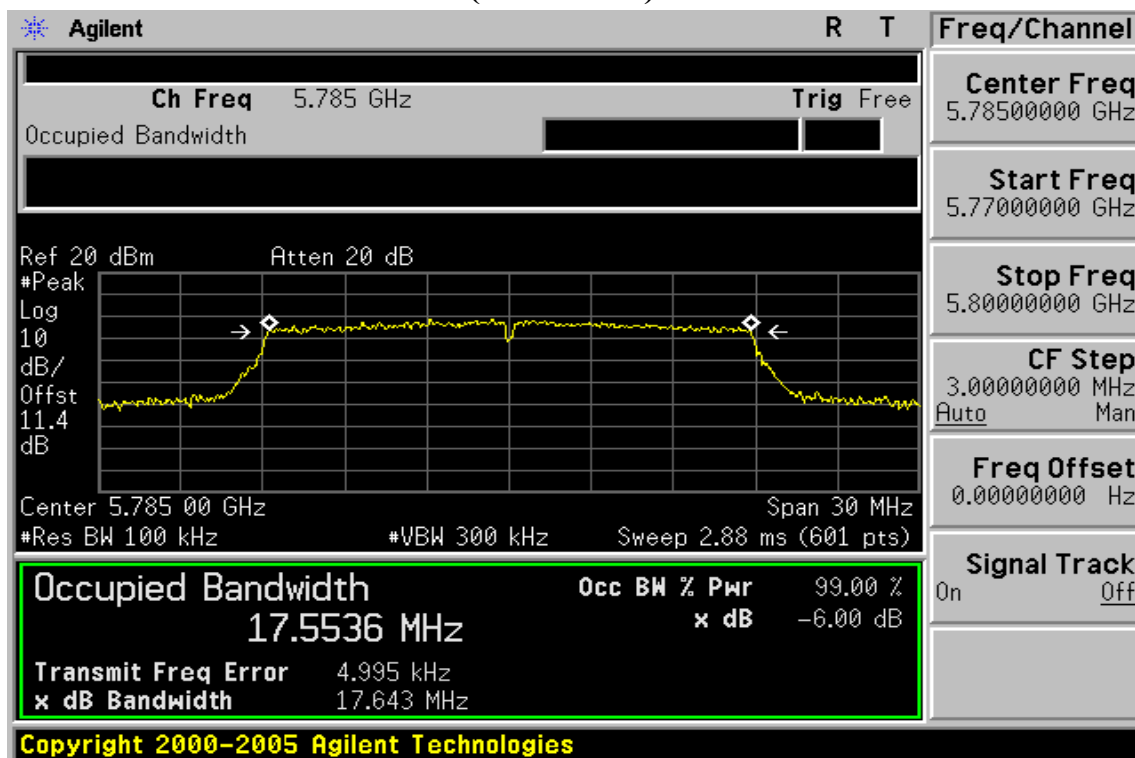
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## 802.11n HT20, 5725~5850 MHz

## 6dB Band Width Test Data CH-Low (5745 MHz)



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



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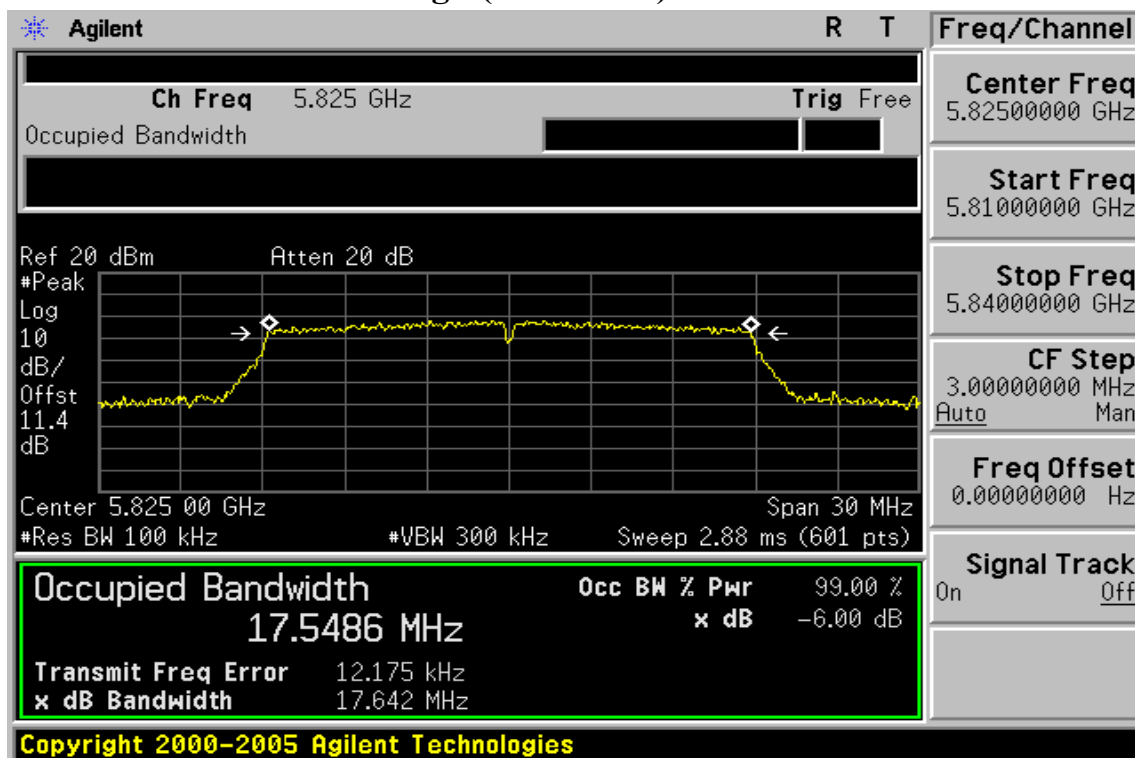
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## 6dB Band Width Test Data CH-High (5825 MHz)



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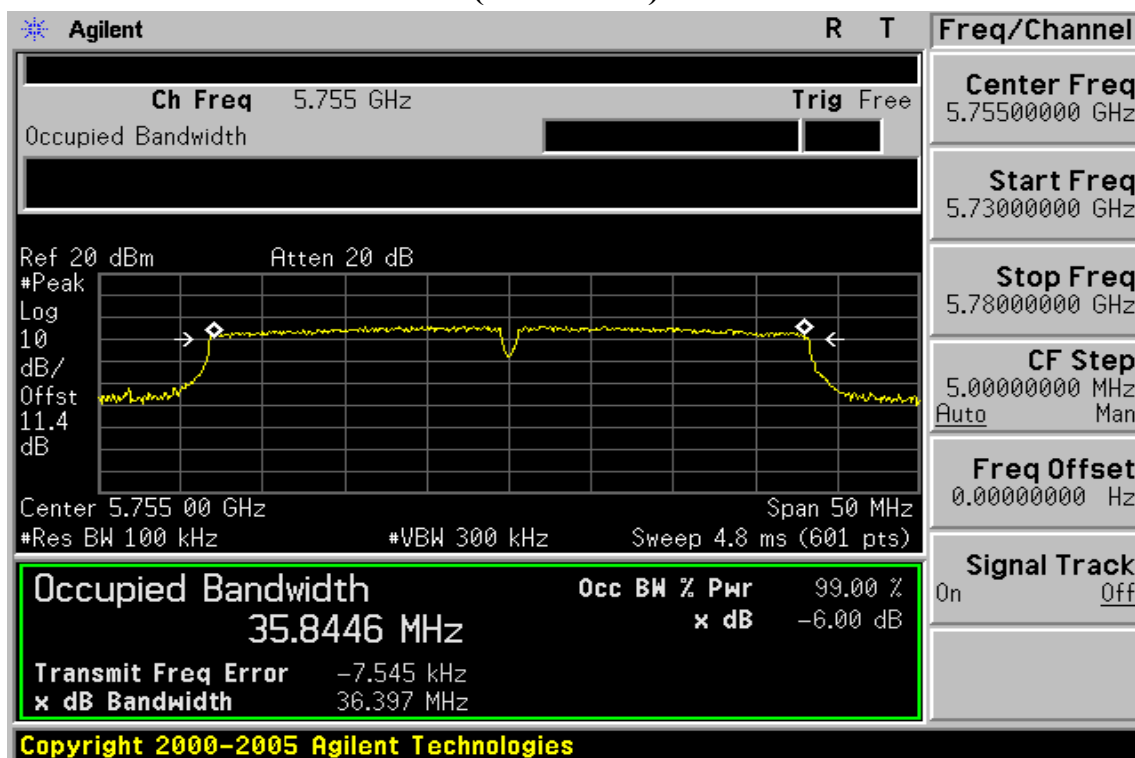
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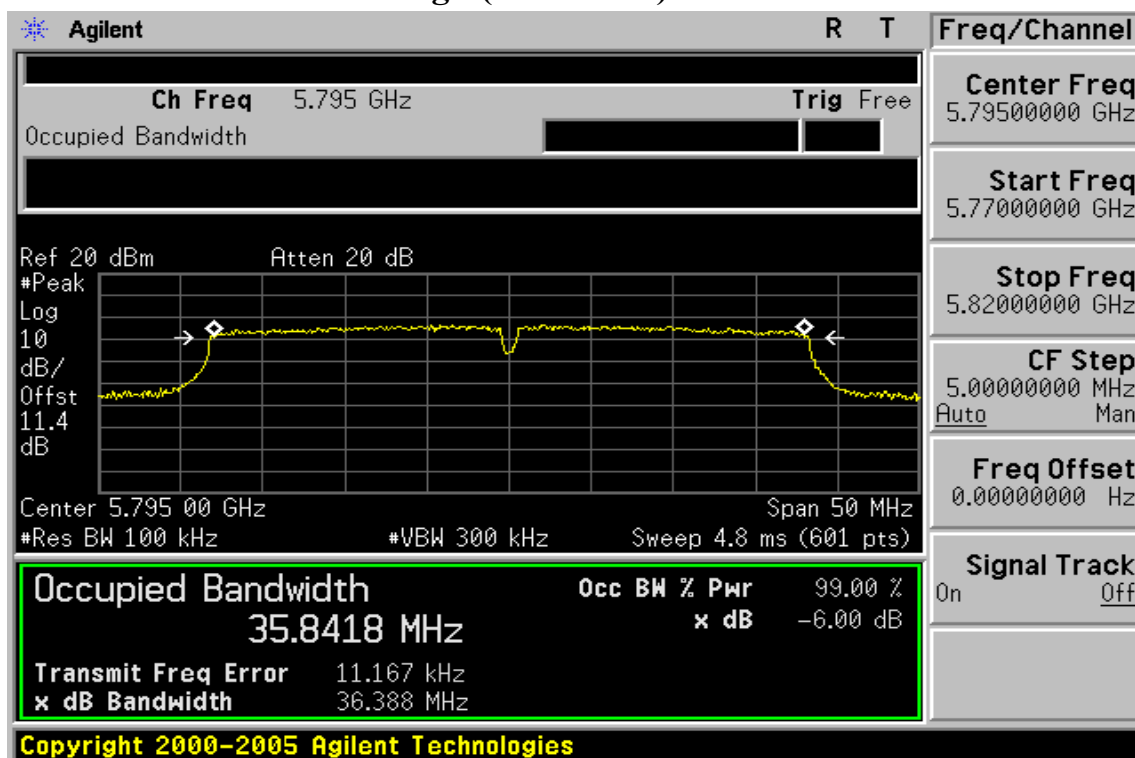
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### 802.11n HT40, 5725~5850 MHz for Main 6dB Band Width Test Data CH-Low (5755 MHz)



### 6dB Band Width Test Data CH-High (5795 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 5.725-5.825 GHz, the maximum conducted power over the frequency of operation shall not exceed the lesser of 1W (30dBm) or 17 dBm + 10log B.
4. 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).

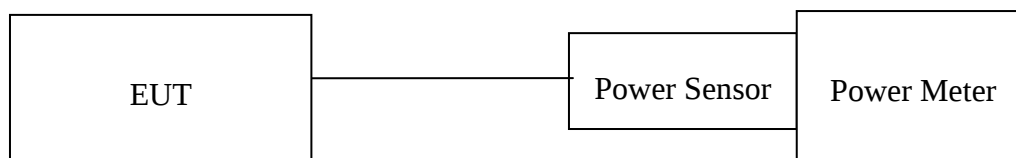
### 8.2 Measurement Procedure

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  $10 \cdot \log(1/x)$  ( $x=0.99$ ), 0.04 approximately
4. Record the max. reading.
5. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

### 8.3 Measurement Equipment Used:

Refer to section 7.3 for details.

### 8.4 Test Set-up:



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## 8.5 Measurement Result

802.11a

| Cable loss = 0 |                 | The Maximum Output Power |       |       |       |       |       |       |       |                                                 |
|----------------|-----------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------------------------------------------------|
| CH             | Frequency (MHz) | Data Rate                |       |       |       |       |       |       |       | Required Limit                                  |
|                |                 | 6                        | 9     | 12    | 18    | 24    | 36    | 48    | 54    |                                                 |
| 36             | 5180            | 13.88                    | 13.74 | 13.64 | 13.60 | 13.52 | 13.38 | 13.20 | 13.12 | 23.98dBm                                        |
| 44             | 5220            | 13.86                    | 13.77 | 13.62 | 13.52 | 13.38 | 13.30 | 13.22 | 13.11 | 23.98dBm                                        |
| 48             | 5240            | <b>13.96</b>             | 13.90 | 13.86 | 13.74 | 13.68 | 13.50 | 13.45 | 13.37 | 23.98dBm                                        |
| 52             | 5260            | <b>13.99</b>             | 13.87 | 13.80 | 13.70 | 13.51 | 13.44 | 13.33 | 13.19 | 23.98dBm or<br>$11+10\log(B) = 23.87\text{dBm}$ |
| 60             | 5300            | 13.83                    | 13.70 | 13.59 | 13.51 | 13.46 | 13.38 | 13.21 | 13.12 | 23.98dBm or<br>$11+10\log(B) = 24.02\text{dBm}$ |
| 64             | 5320            | 13.95                    | 13.84 | 13.77 | 13.67 | 13.63 | 13.47 | 13.41 | 13.28 | 23.98dBm or<br>$11+10\log(B) = 24.01\text{dBm}$ |
| 100            | 5500            | <b>13.96</b>             | 13.94 | 13.75 | 13.68 | 13.50 | 13.34 | 13.31 | 13.25 | 23.98dBm or<br>$11+10\log(B) = 23.82\text{dBm}$ |
| 116            | 5580            | 13.85                    | 13.77 | 13.61 | 13.58 | 13.45 | 13.42 | 13.34 | 13.26 | 23.98dBm or<br>$11+10\log(B) = 23.90\text{dBm}$ |
| 140            | 5700            | 13.96                    | 13.89 | 13.82 | 13.63 | 13.62 | 13.50 | 13.34 | 13.20 | 23.98dBm or<br>$11+10\log(B) = 24.01\text{dBm}$ |
| 149            | 5745            | 13.77                    | 13.63 | 13.53 | 13.48 | 13.41 | 13.23 | 13.18 | 13.07 | 30dBm                                           |
| 157            | 5785            | 13.74                    | 13.65 | 13.46 | 13.41 | 13.35 | 13.20 | 13.17 | 13.12 | 30dBm                                           |
| 165            | 5825            | <b>13.79</b>             | 13.69 | 13.63 | 13.54 | 13.44 | 13.41 | 13.39 | 13.33 | 30dBm                                           |

Note: Limit is re-adjusted in terms of dBm

$$10*\log(250\text{mW})=23.98\text{dBm}$$

Note: Cable loss is 11.4dB is set as the offset on the spectrum to compensate the loss causing by cable

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## 802.11n HT20

| Cable loss = 0 |                 | The Maximum Output Power |       |       |       |       |       |       |       |                                              |
|----------------|-----------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|----------------------------------------------|
| CH             | Frequency (MHz) | Data Rate                |       |       |       |       |       |       |       | Required Limit                               |
|                |                 | MCS0                     | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  |                                              |
| 36             | 5180            | 12.92                    | 12.82 | 12.64 | 12.53 | 12.52 | 12.33 | 12.28 | 12.13 | 23.98dBm                                     |
| 44             | 5220            | <b>12.99</b>             | 12.89 | 12.74 | 12.62 | 12.55 | 12.53 | 12.35 | 12.29 | 23.98dBm                                     |
| 48             | 5240            | 12.96                    | 12.88 | 12.71 | 12.54 | 12.50 | 12.39 | 12.38 | 12.31 | 23.98dBm                                     |
| 52             | 5260            | 12.94                    | 12.80 | 12.70 | 12.63 | 12.62 | 12.53 | 12.44 | 12.41 | 23.98dBm or $11+10\log(B) = 23.95\text{dBm}$ |
| 60             | 5300            | 12.84                    | 12.65 | 12.50 | 12.47 | 12.30 | 12.13 | 11.99 | 11.88 | 23.98dBm or $11+10\log(B) = 23.95\text{dBm}$ |
| 64             | 5320            | <b>12.95</b>             | 12.93 | 12.90 | 12.71 | 12.62 | 12.52 | 12.40 | 12.23 | 23.98dBm or $11+10\log(B) = 23.96\text{dBm}$ |
| 100            | 5500            | 12.98                    | 12.96 | 12.78 | 12.77 | 12.71 | 12.70 | 12.67 | 12.50 | 23.98dBm or $11+10\log(B) = 23.97\text{dBm}$ |
| 116            | 5580            | <b>12.99</b>             | 12.92 | 12.82 | 12.64 | 12.63 | 12.55 | 12.52 | 12.35 | 23.98dBm or $11+10\log(B) = 23.96\text{dBm}$ |
| 140            | 5700            | 12.89                    | 12.78 | 12.71 | 12.63 | 12.45 | 12.32 | 12.14 | 12.13 | 23.98dBm or $11+10\log(B) = 23.98\text{dBm}$ |
| 149            | 5745            | <b>12.79</b>             | 12.67 | 12.59 | 12.51 | 12.35 | 12.26 | 12.21 | 12.15 | 30dBm                                        |
| 157            | 5785            | 12.73                    | 12.55 | 12.50 | 12.46 | 12.41 | 12.25 | 12.14 | 12.00 | 30dBm                                        |
| 165            | 5825            | 12.69                    | 12.59 | 12.56 | 12.52 | 12.37 | 12.28 | 12.10 | 11.92 | 30dBm                                        |

Note: Offset 11.4dB

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802.11n HT40

| Cable loss = 0 |                 | The Maximum Output Power |       |       |       |       |       |       |       |                                              |
|----------------|-----------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|----------------------------------------------|
| CH             | Frequency (MHz) | Data Rate                |       |       |       |       |       |       |       | Required Limit                               |
|                |                 | MCS0                     | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  |                                              |
| 38             | 5190            | 10.46                    | 10.29 | 10.13 | 9.97  | 9.79  | 9.68  | 9.53  | 9.34  | 23.98dBm                                     |
| 46             | 5230            | 11.95                    | 11.88 | 11.83 | 11.64 | 11.56 | 11.49 | 11.47 | 11.32 | 23.98dBm                                     |
| 54             | 5270            | 11.93                    | 11.91 | 11.83 | 11.82 | 11.73 | 11.63 | 11.49 | 11.43 | 23.98dBm or $11+10\log(B) = 26.97\text{dBm}$ |
| 62             | 5310            | 11.46                    | 11.39 | 11.34 | 11.25 | 11.07 | 11.05 | 10.86 | 10.73 | 23.98dBm or $11+10\log(B) = 27.00\text{dBm}$ |
| 102            | 5510            | 11.37                    | 11.30 | 11.25 | 11.22 | 11.17 | 11.09 | 11.03 | 10.98 | 23.98dBm or $11+10\log(B) = 27.01\text{dBm}$ |
| 110            | 5550            | 11.96                    | 11.84 | 11.67 | 11.48 | 11.30 | 11.25 | 11.15 | 11.07 | 23.98dBm or $11+10\log(B) = 26.99\text{dBm}$ |
| 134            | 5670            | 11.86                    | 11.81 | 11.73 | 11.65 | 11.50 | 11.38 | 11.25 | 11.18 | 23.98dBm or $11+10\log(B) = 26.99\text{dBm}$ |
| 151            | 5755            | 11.98                    | 11.80 | 11.67 | 11.64 | 11.61 | 11.42 | 11.24 | 11.10 | 30dBm                                        |
| 159            | 5795            | 11.87                    | 11.72 | 11.70 | 11.52 | 11.46 | 11.39 | 11.30 | 11.18 | 30dBm                                        |

Note: Offset 11.4dB

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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/80MHz (Base Mode), where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
4. User the cursor on spectrum to peak search the highest level of trace
5. Add offset, duty factor =0.04, on the spectrum
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            | 0.89       | 11.00       | -10.11      |
| 5220            | 1.04       | 11.00       | -9.96       |
| 5240            | 1.03       | 11.00       | -9.97       |

802.11a, 5250~5350 MHz

| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|------------|-------------|-------------|
| 5260            | 2.00       | 11.00       | -9.00       |
| 5300            | 0.70       | 11.00       | -10.30      |
| 5320            | 1.28       | 11.00       | -9.72       |

802.11a, 5470~5725 MHz

| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|------------|-------------|-------------|
| 5500            | 0.94       | 11.00       | -10.06      |
| 5580            | 1.44       | 11.00       | -9.56       |
| 5700            | 1.01       | 11.00       | -9.99       |

802.11a, 5725~5850 MHz

| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|------------|-------------|-------------|
| 5745            | 7.11       | 30.00       | -22.89      |
| 5785            | 6.85       | 30.00       | -23.15      |
| 5825            | 6.32       | 30.00       | -23.68      |

Note: Offset 11.4dB

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## 802.11n HT20, 5150~5250 MHz

| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|------------|-------------|-------------|
| 5180            | 1.57       | 11.00       | -9.43       |
| 5220            | 0.30       | 11.00       | -10.70      |
| 5240            | -0.39      | 11.00       | -11.39      |

## 802.11n HT20, 5250~5350 MHz

| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|------------|-------------|-------------|
| 5260            | -0.36      | 11.00       | -11.36      |
| 5300            | -0.75      | 11.00       | -11.75      |
| 5320            | -2.23      | 11.00       | -13.23      |

## 802.11n HT20, 5470~5725 MHz

| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|------------|-------------|-------------|
| 5500            | -0.71      | 11.00       | -11.71      |
| 5580            | -0.96      | 11.00       | -11.96      |
| 5700            | -0.15      | 11.00       | -11.15      |

## 802.11n HT20, 5725~5850 MHz

| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|------------|-------------|-------------|
| 5745            | 6.17       | 30.00       | -23.83      |
| 5785            | 6.52       | 30.00       | -23.48      |
| 5825            | 5.85       | 30.00       | -24.15      |

Note: Offset 11.4dB

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## 802.11n HT40, 5150~5250 MHz

| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|------------|-------------|-------------|
| 5190            | -6.04      | 11.00       | -17.04      |
| 5230            | -3.59      | 11.00       | -14.59      |

## 802.11n HT40, 5250~5350 MHz

| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|------------|-------------|-------------|
| 5270            | -3.12      | 11.00       | -14.12      |
| 5310            | -6.30      | 11.00       | -17.30      |

## 802.11n HT40, 5470~5725 MHz

| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|------------|-------------|-------------|
| 5510            | -6.42      | 11.00       | -17.42      |
| 5550            | -3.58      | 11.00       | -14.58      |
| 5670            | -7.10      | 11.00       | -18.10      |

## 802.11n HT40, 5725~5850 MHz

| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|------------|-------------|-------------|
| 5755            | 3.54       | 30.00       | -26.46      |
| 5795            | 2.48       | 30.00       | -27.52      |

Note: Offset 11.4dB

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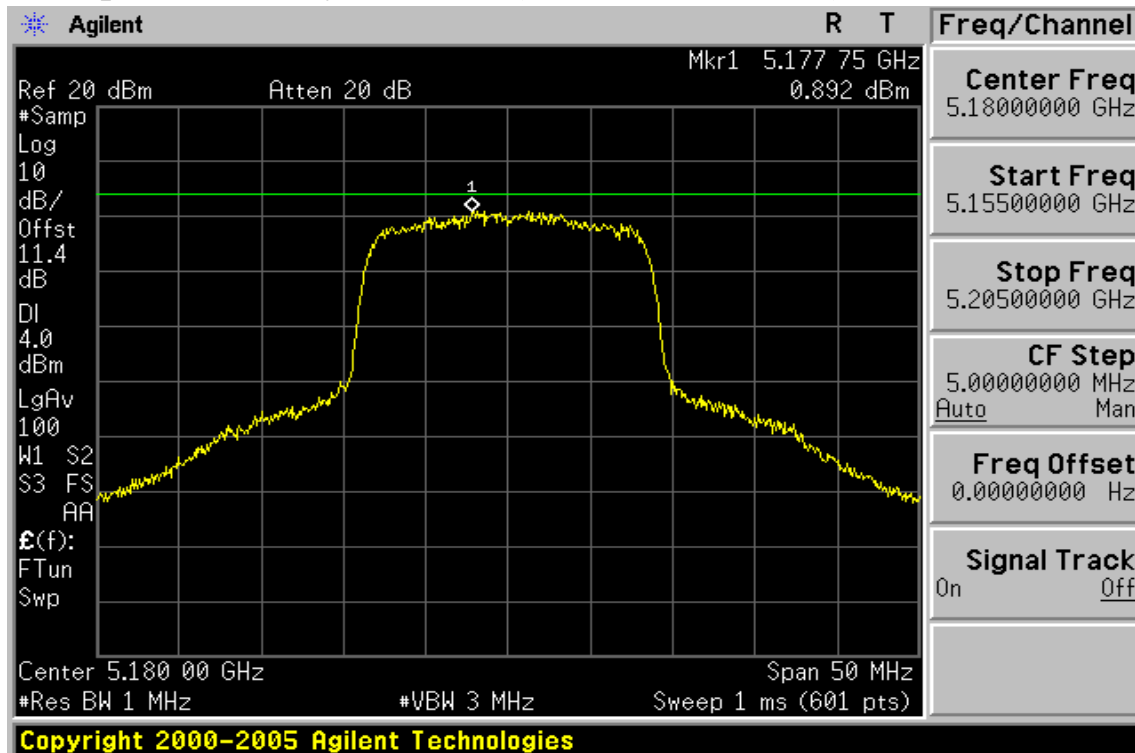
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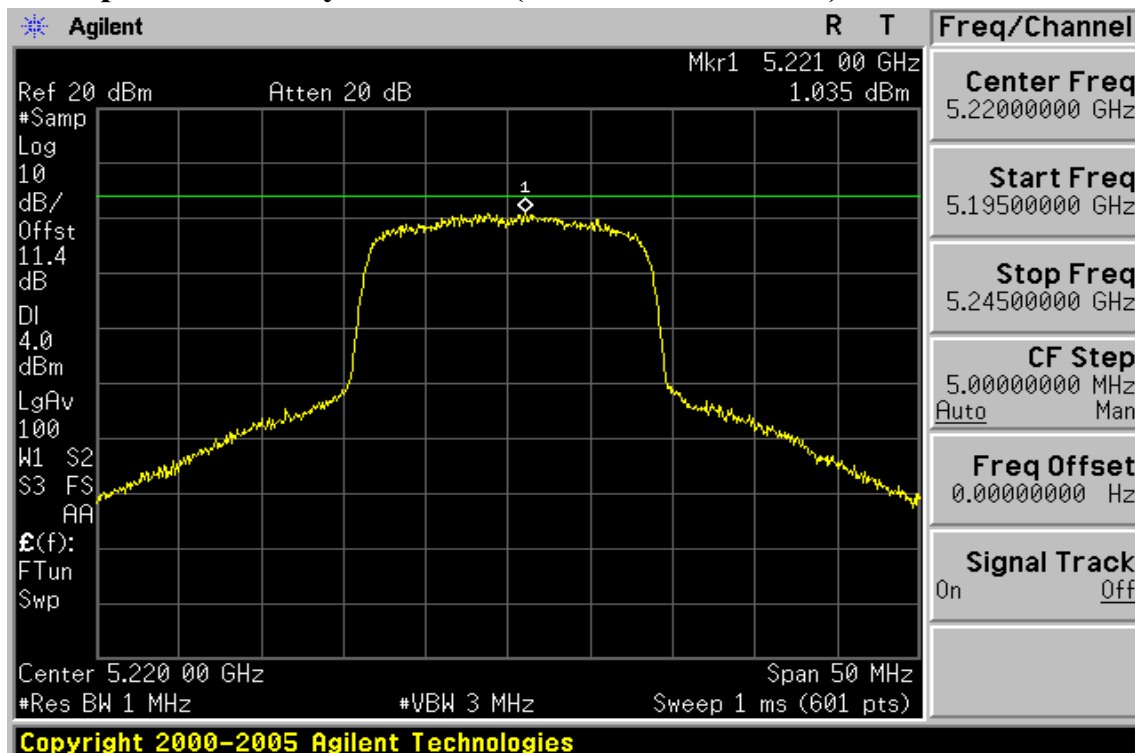
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## 802.11a, 5150~5250 MHz

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



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



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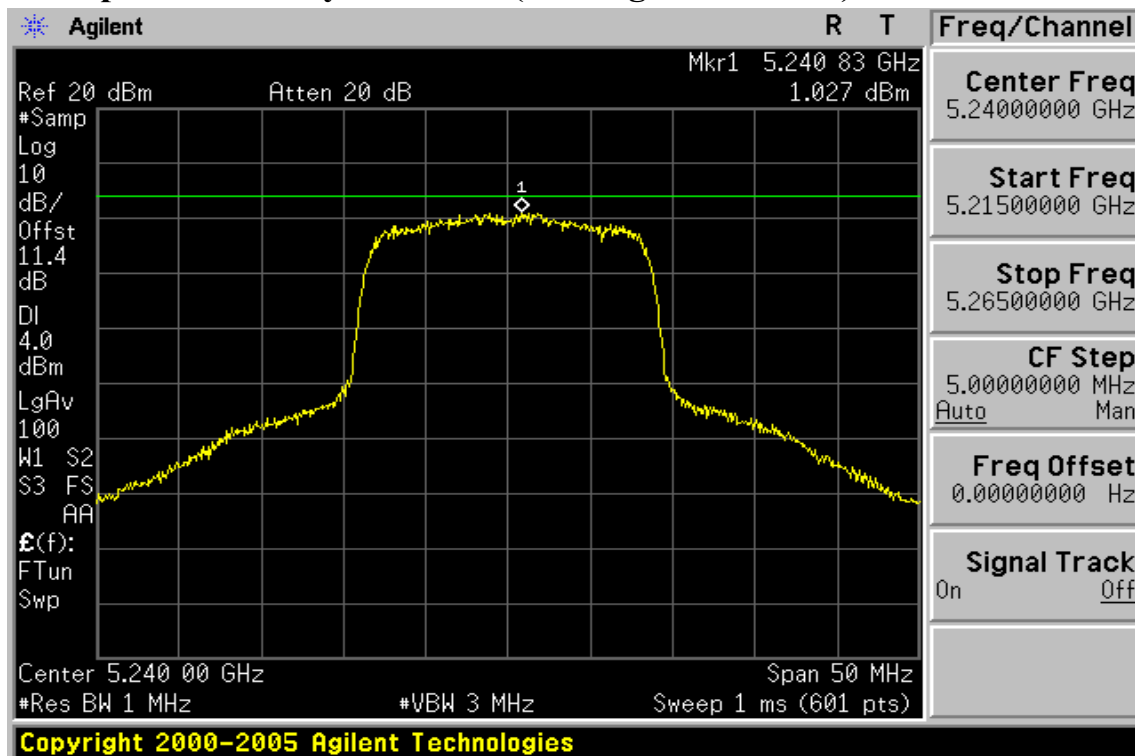
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## Peak Power Spectral Density Data Plot (CH High 5240 MHz)



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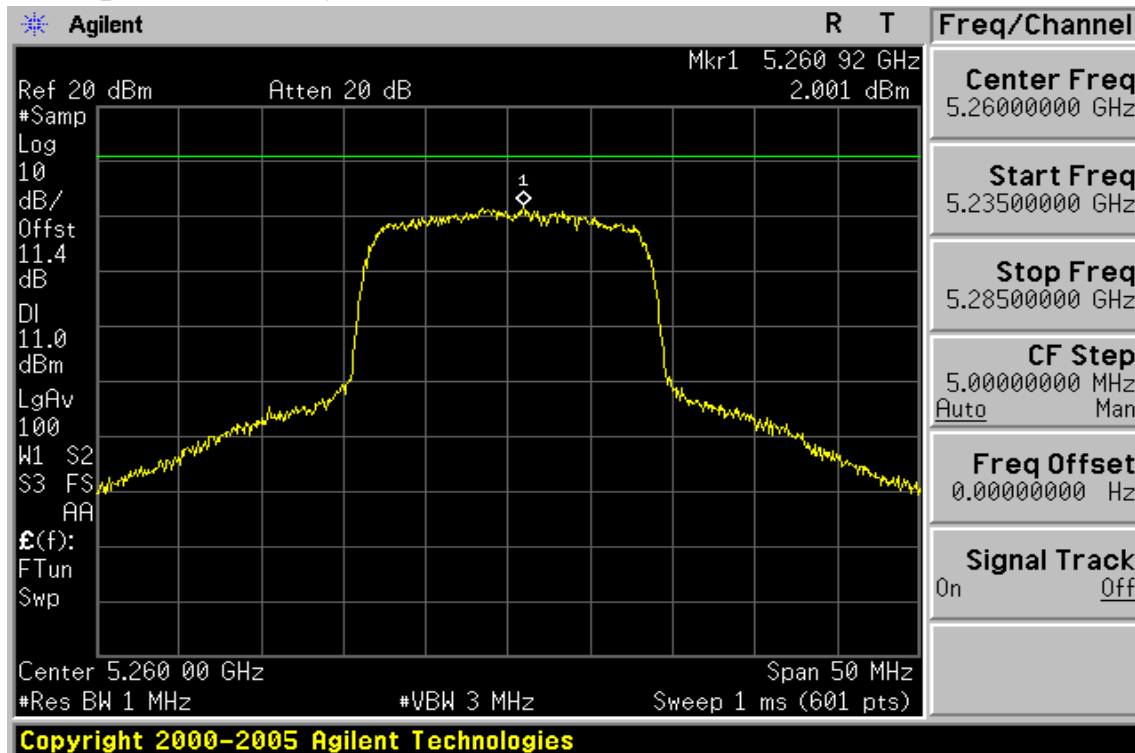
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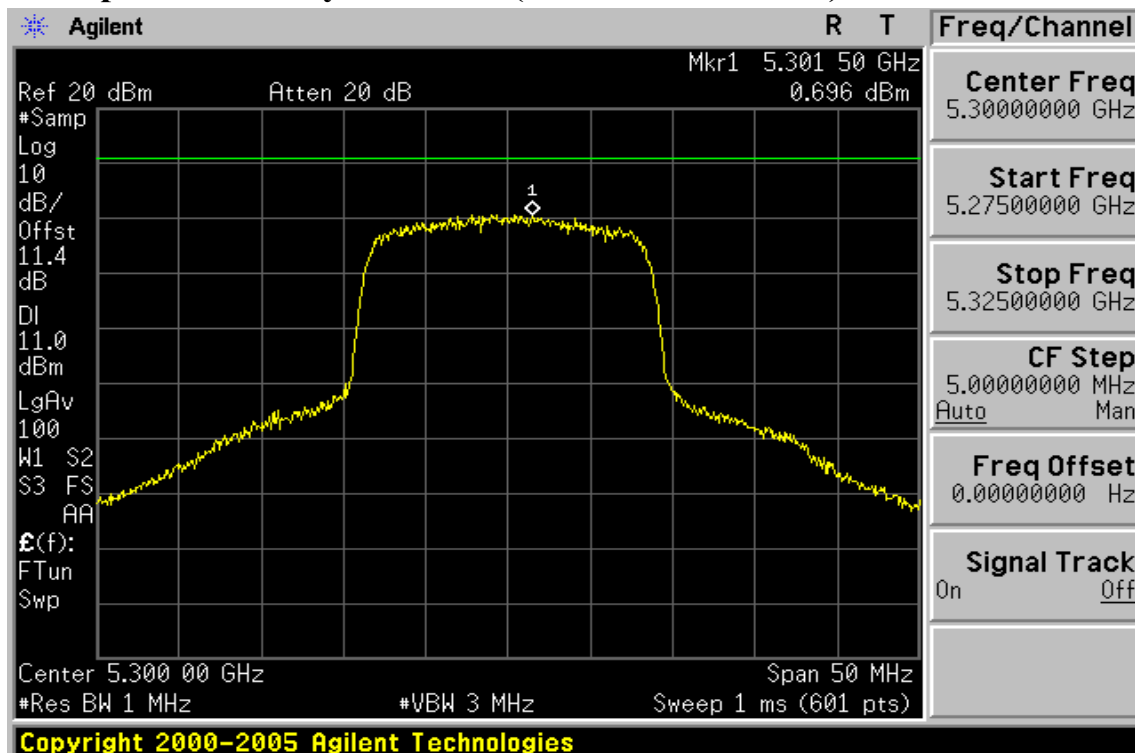
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## 802.11a, 5250~5350 MHz

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



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



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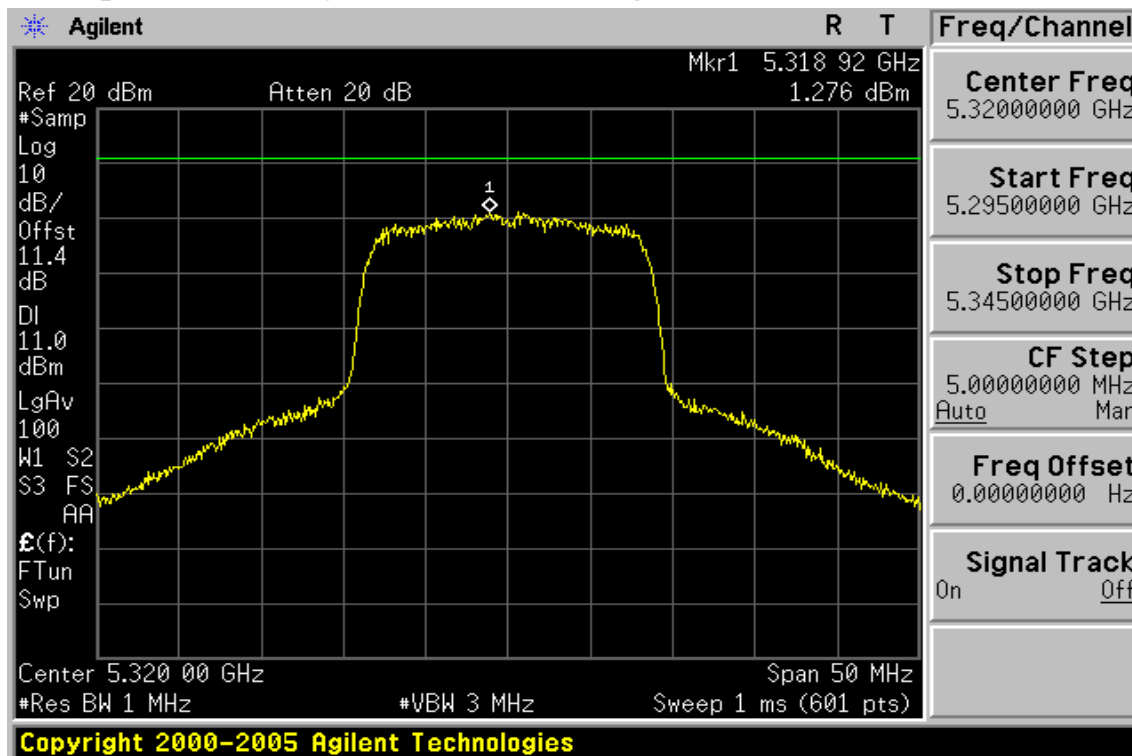
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## Peak Power Spectral Density Data Plot (CH High 5320 MHz)



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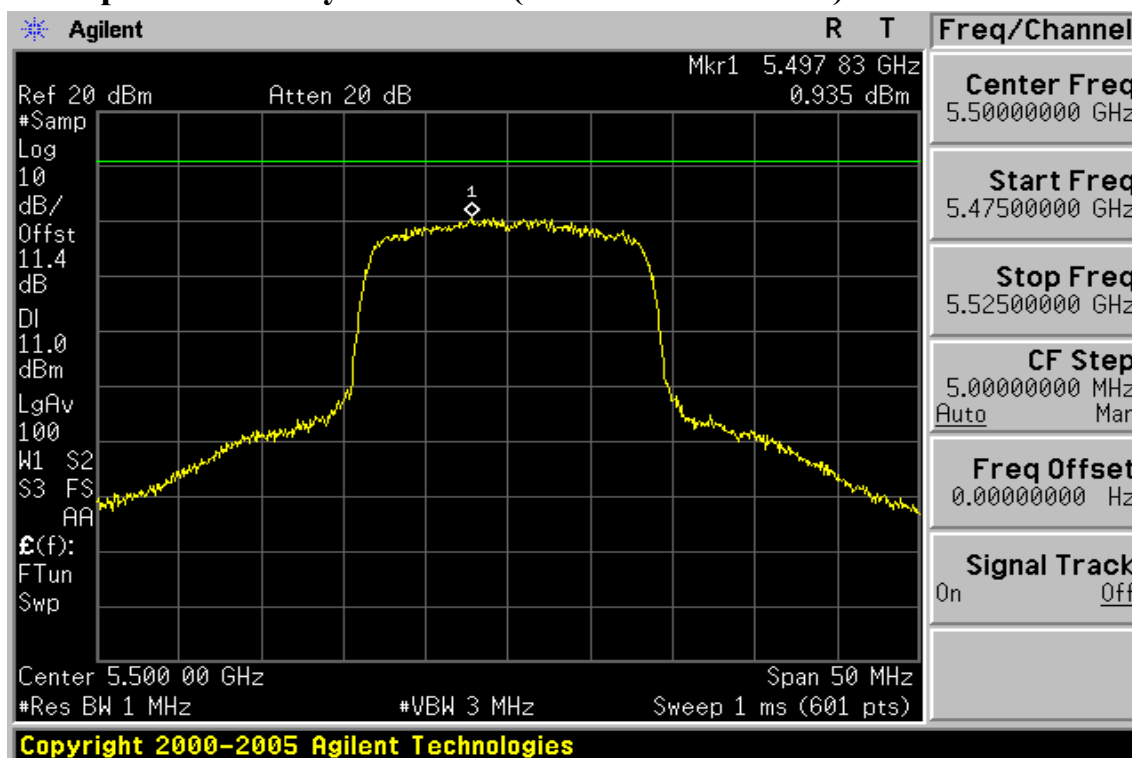
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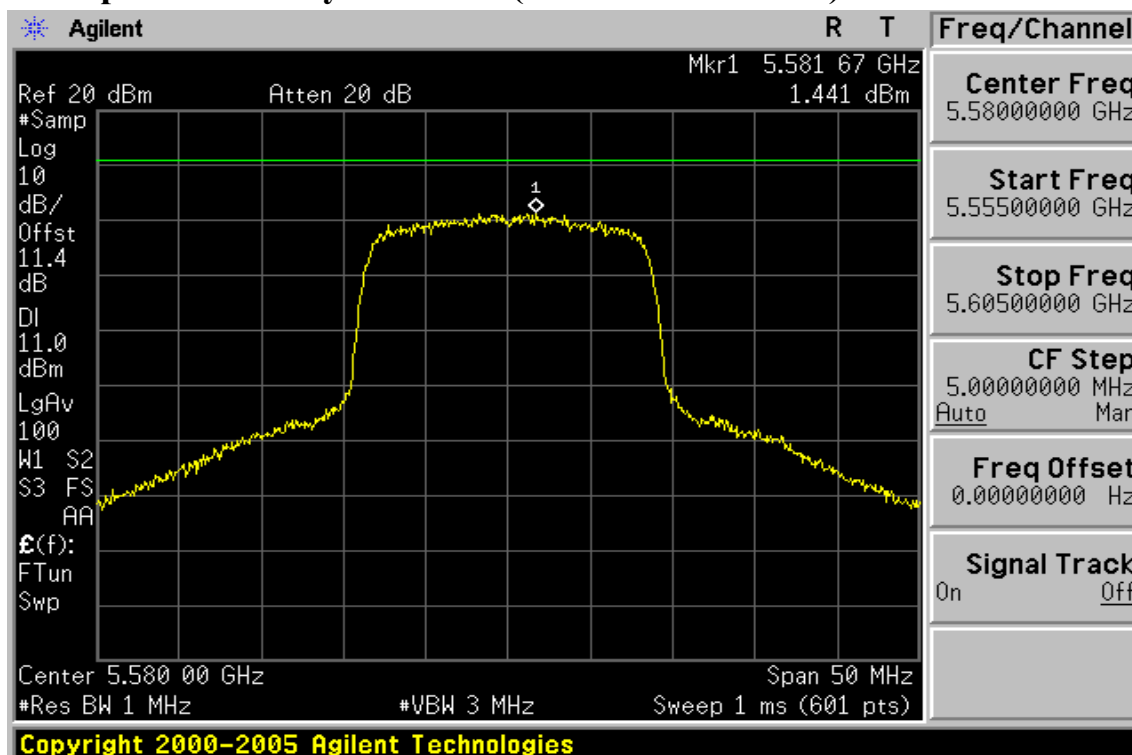
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## 802.11a, 5470~5725 MHz

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



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



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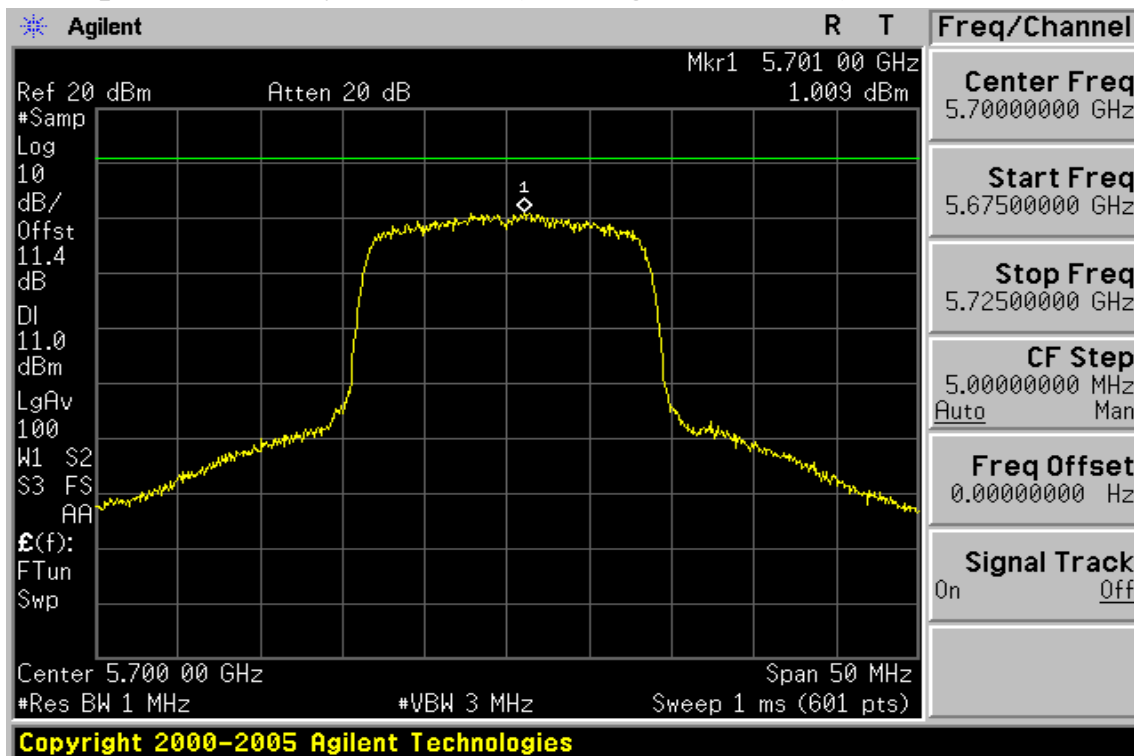
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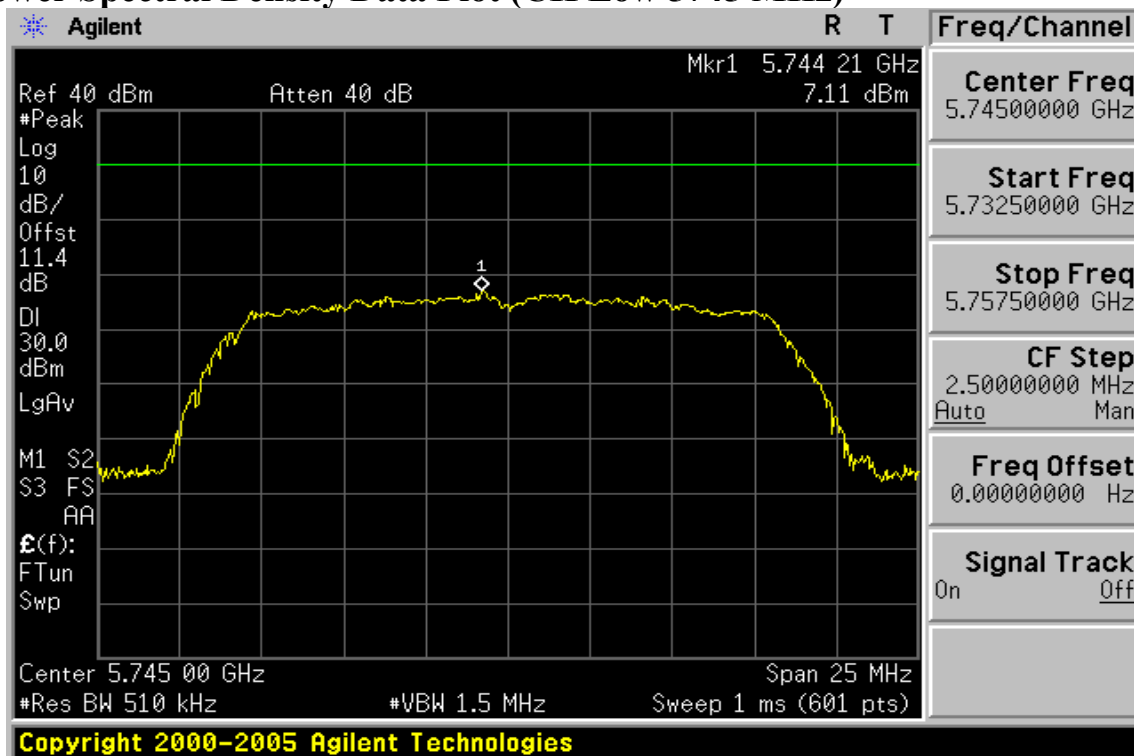
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## Peak Power Spectral Density Data Plot (CH High 5700 MHz)



## 802.11a, 5725~5850 MHz

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



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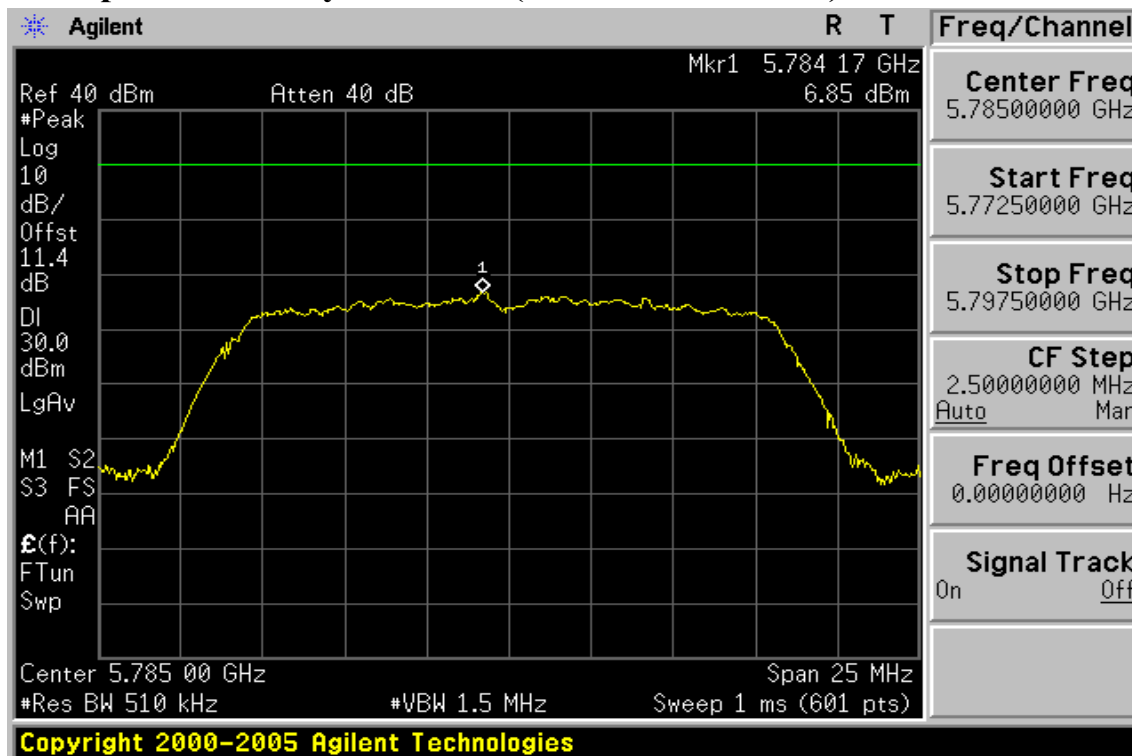
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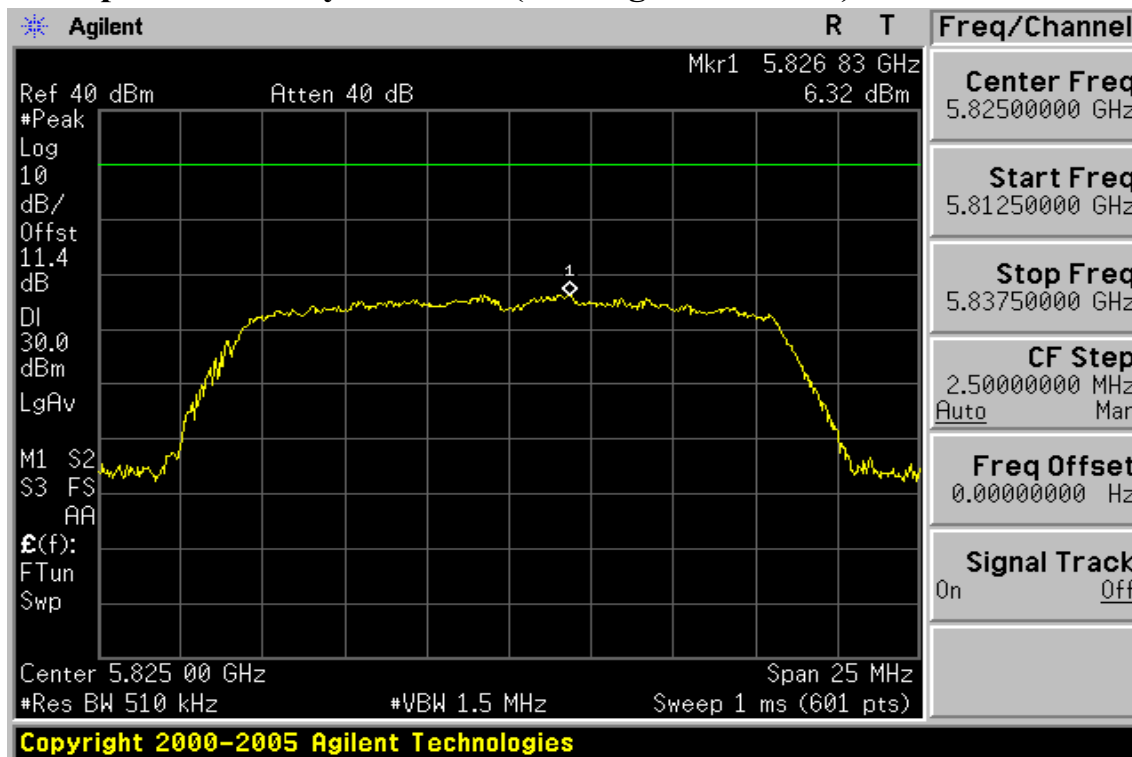
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## Peak Power Spectral Density Data Plot (CH Mid 5785 MHz)



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



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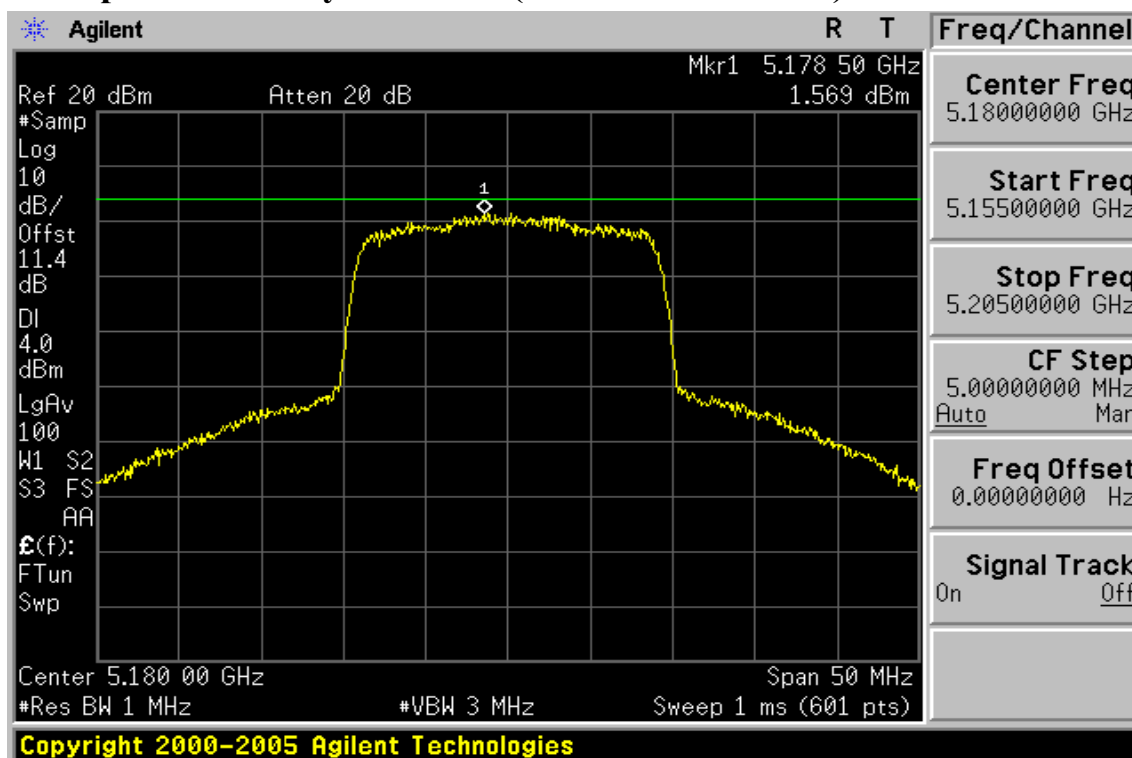
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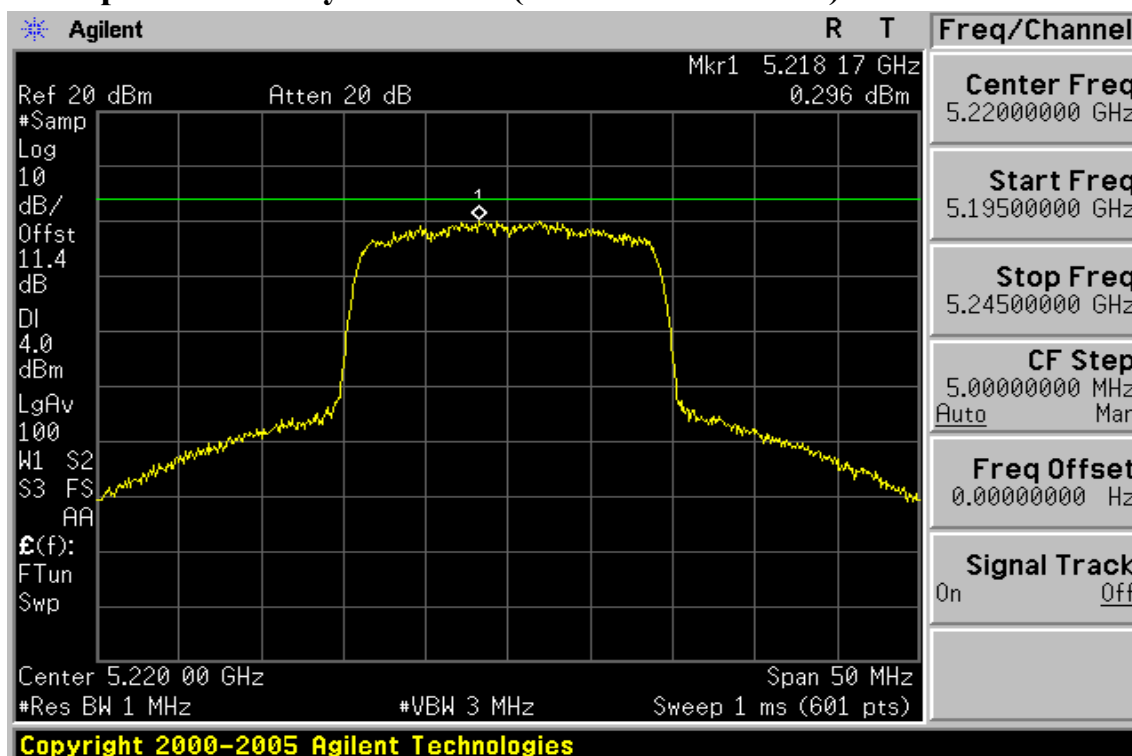
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## 802.11n HT20, 5150~5250 MHz

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



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



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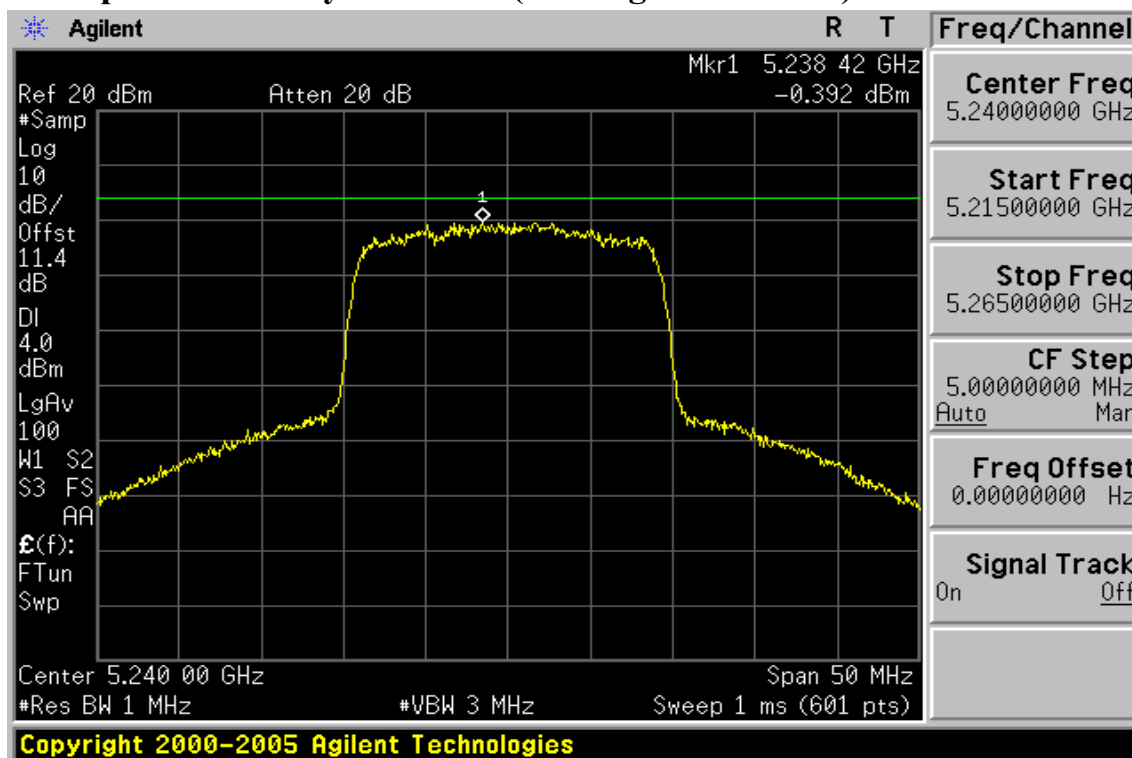
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## Peak Power Spectral Density Data Plot (CH High 5240 MHz)



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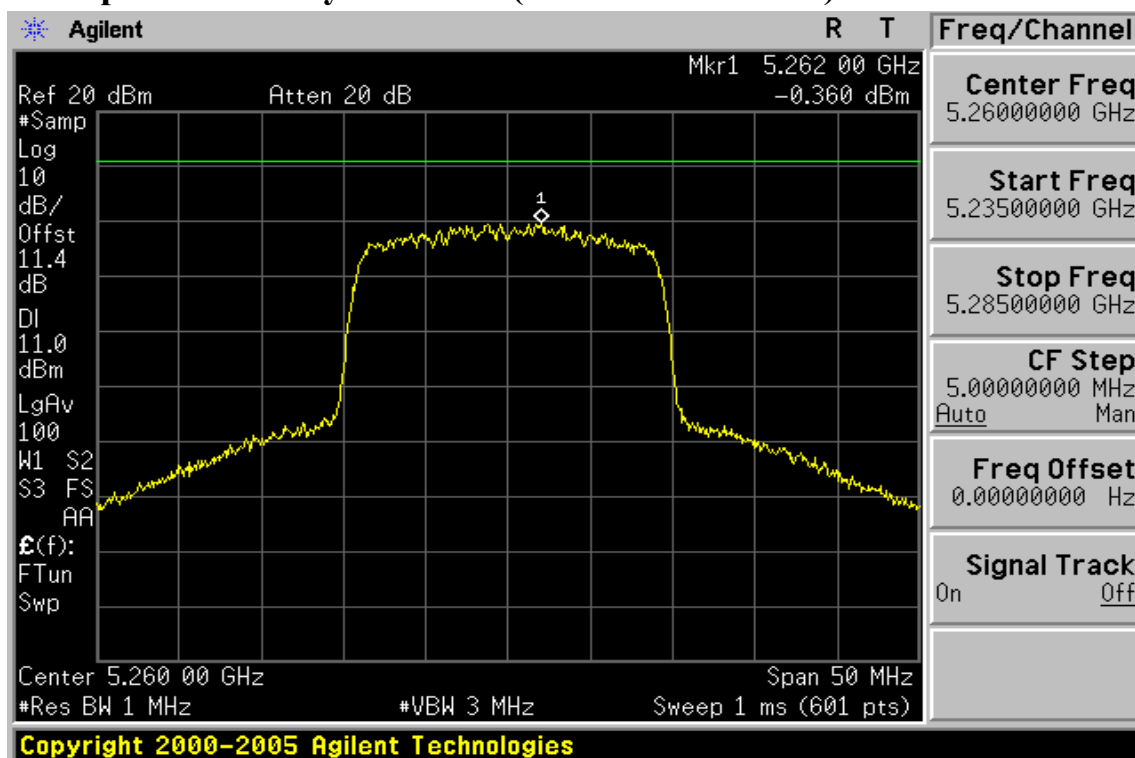
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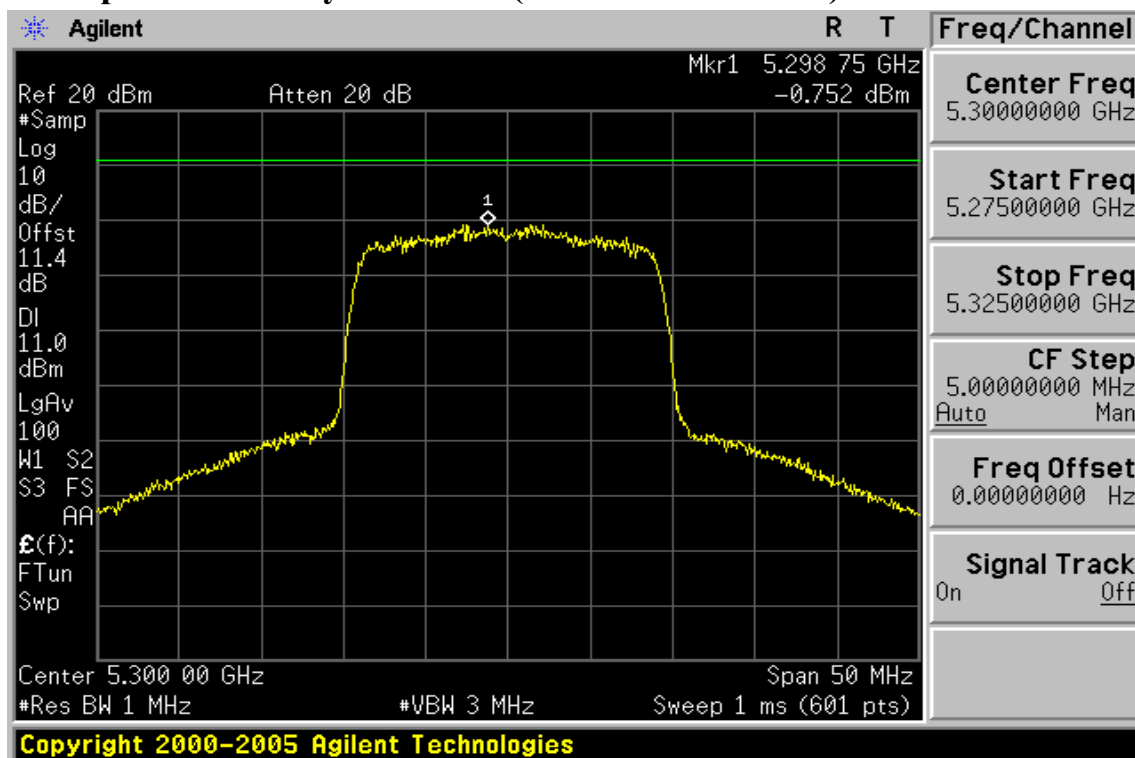
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## 802.11n HT20, 5250~5350 MHz

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



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



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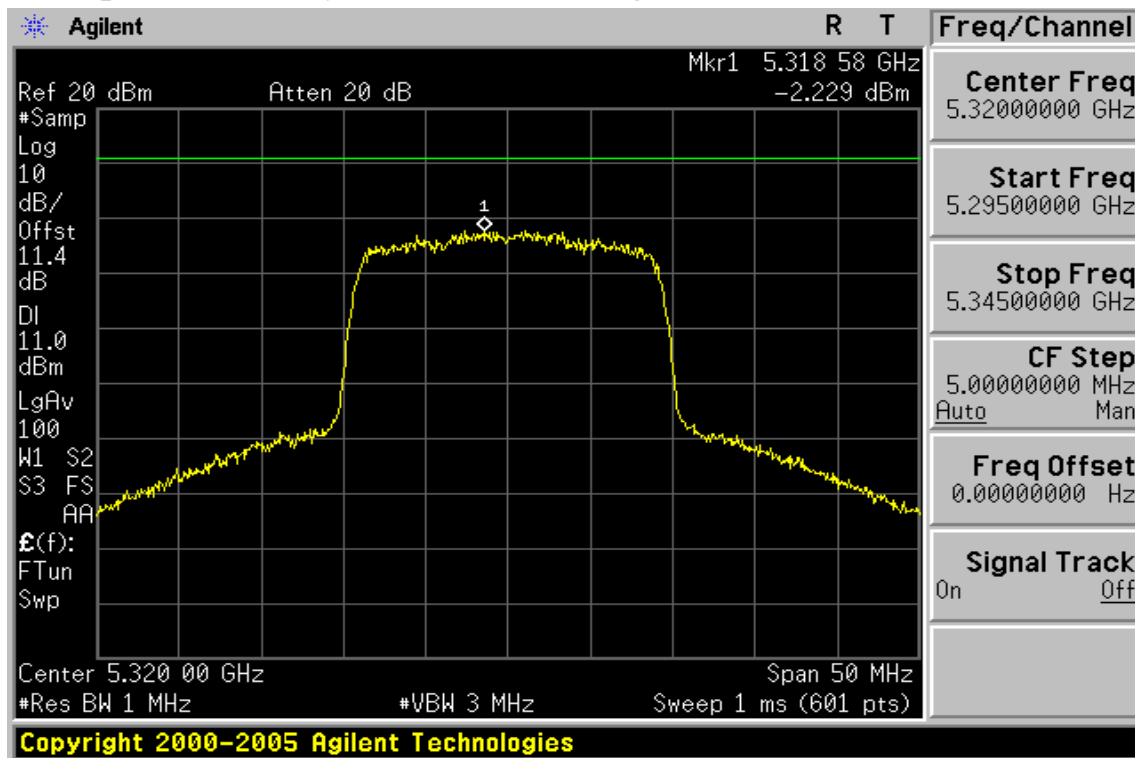
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## Peak Power Spectral Density Data Plot (CH High 5320 MHz)



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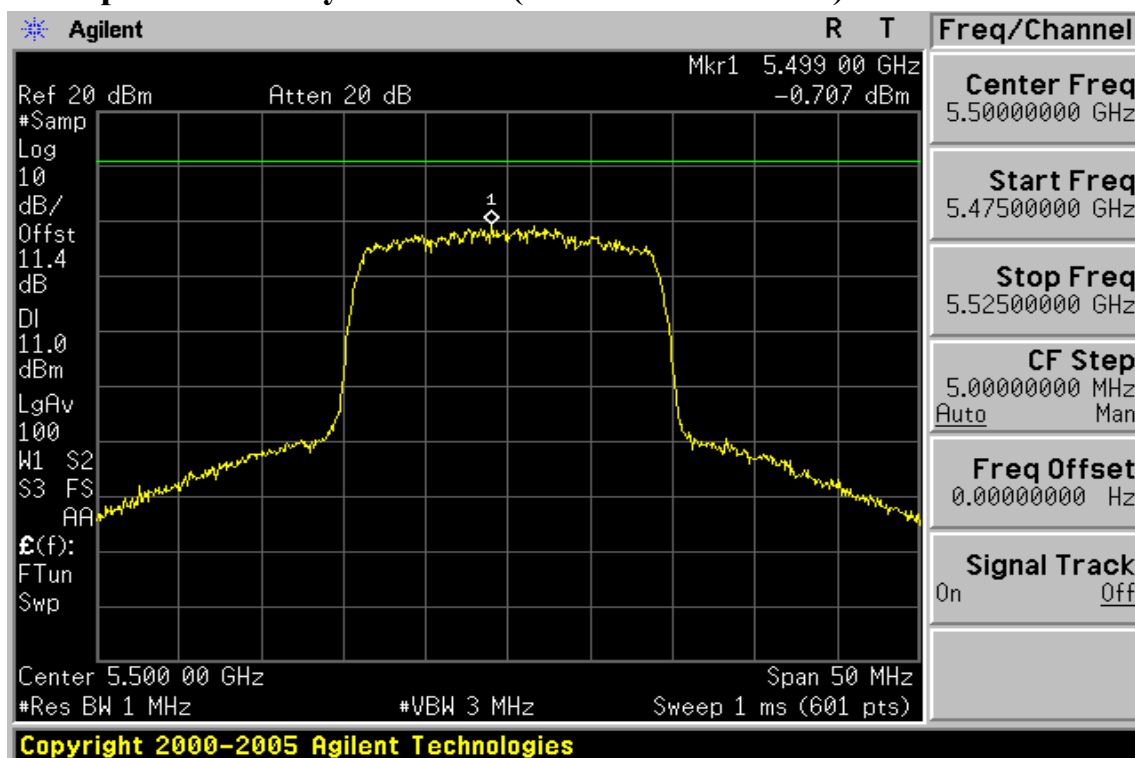
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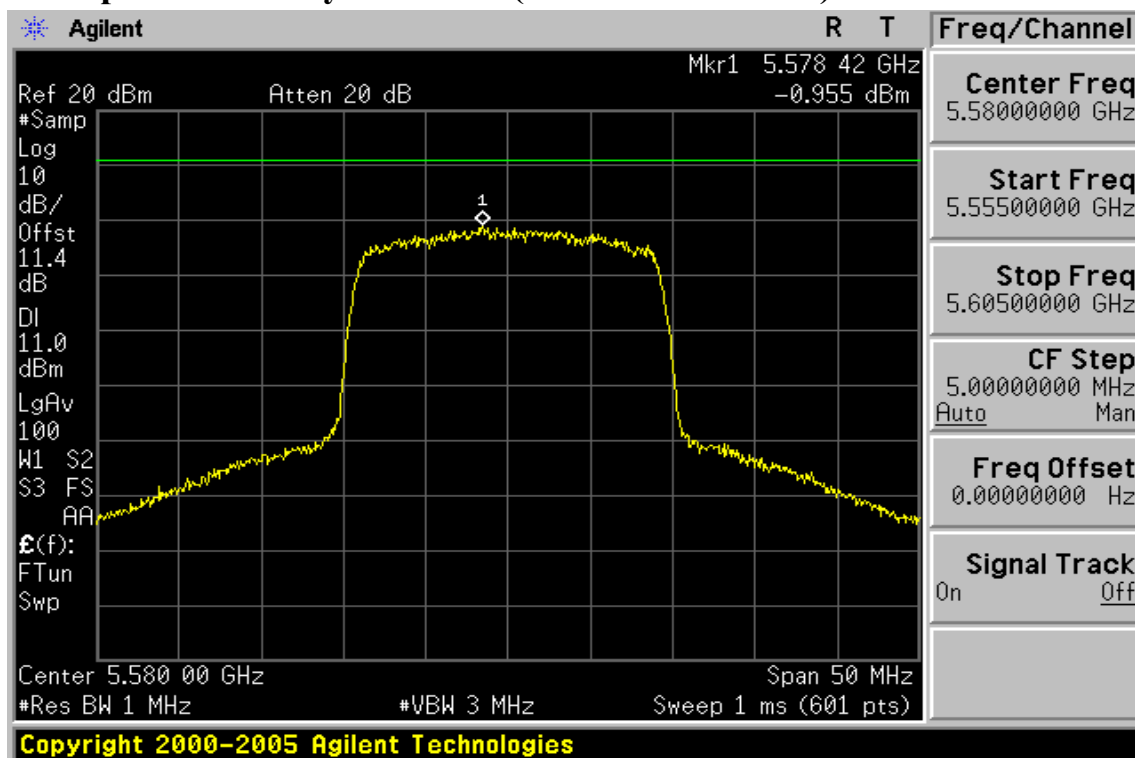
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## 802.11n HT20, 5470~5725 MHz

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



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



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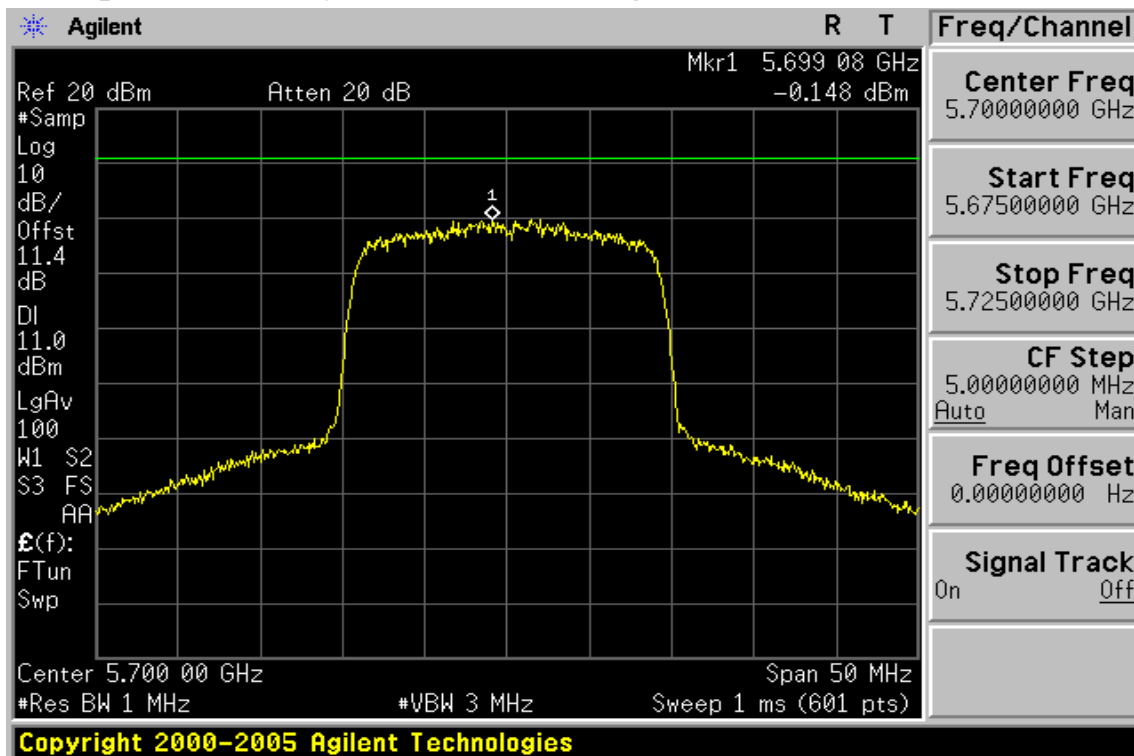
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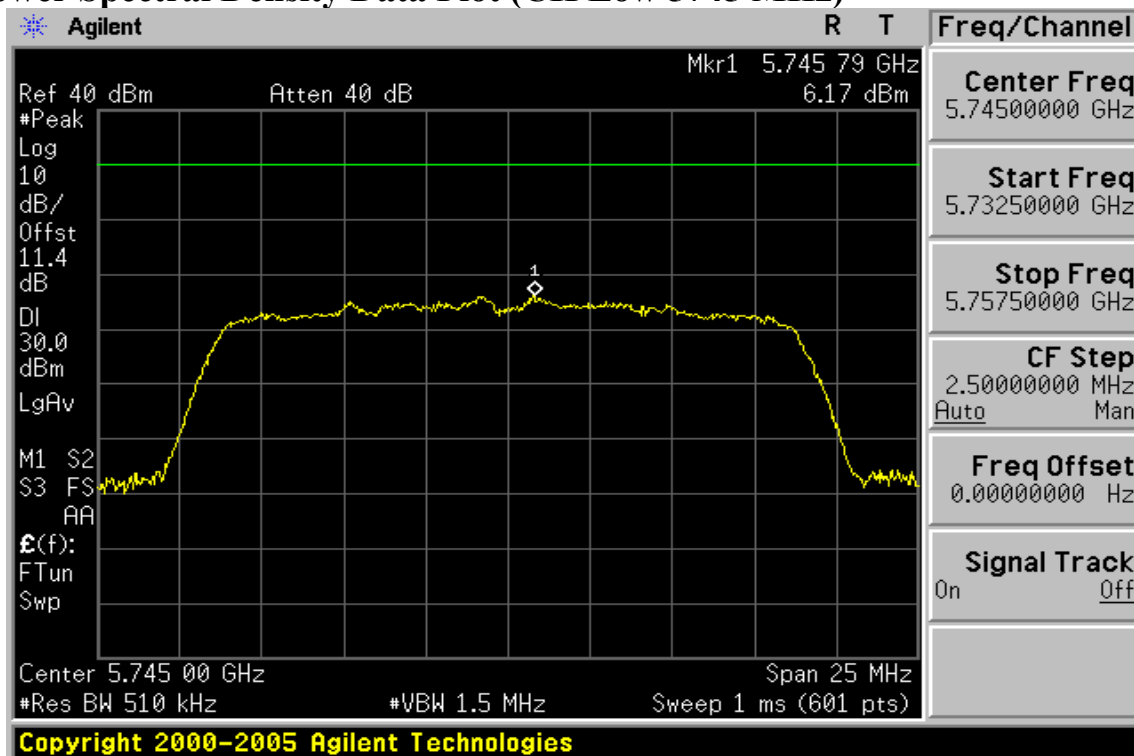
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## Peak Power Spectral Density Data Plot (CH High 5700 MHz)



## 802.11n HT20, 5725~5850 MHz

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



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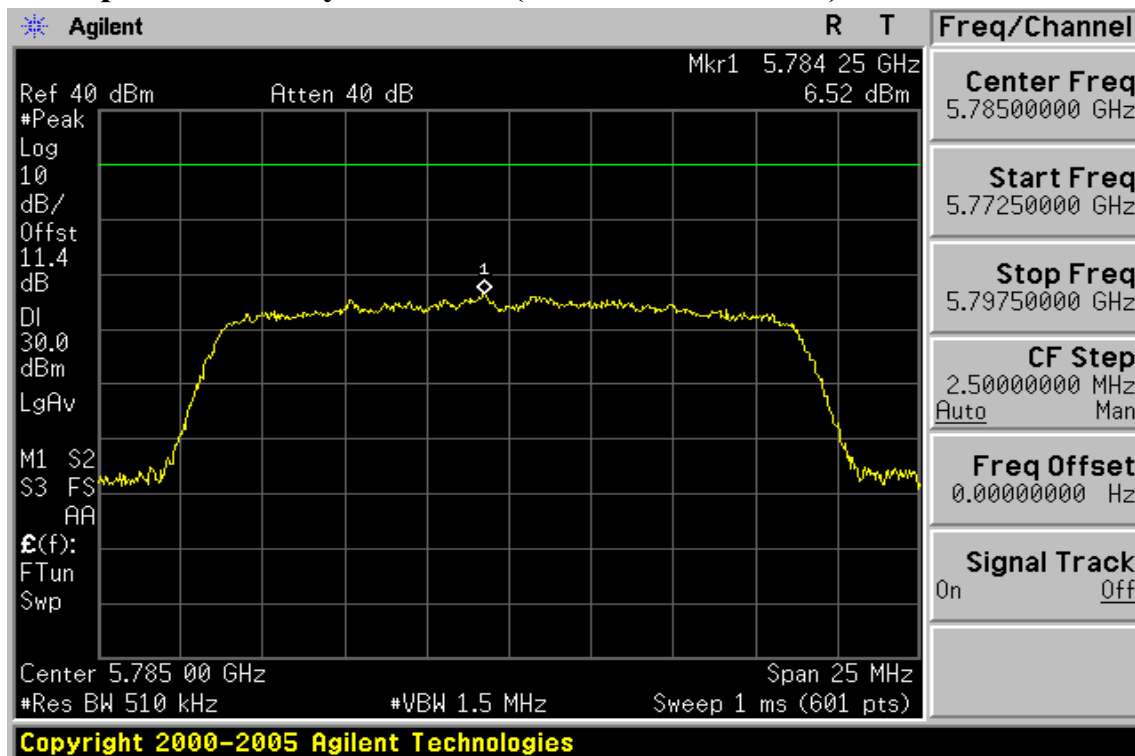
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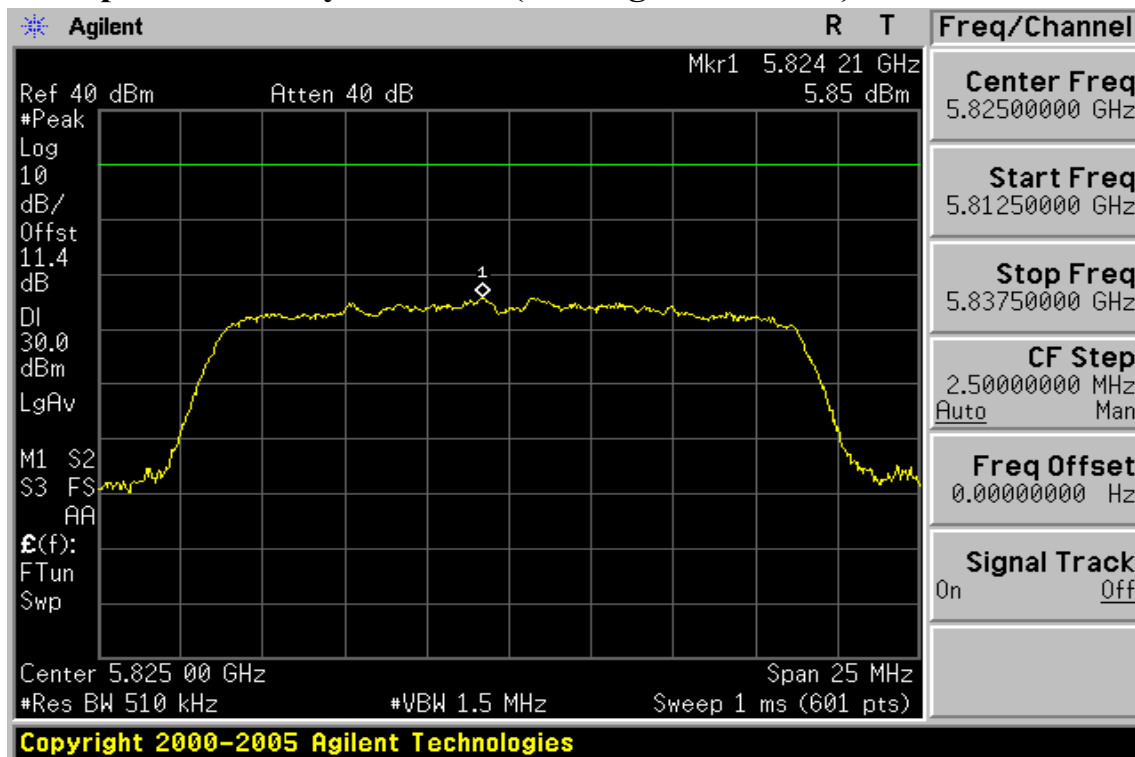
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## Peak Power Spectral Density Data Plot (CH Mid 5785 MHz)



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



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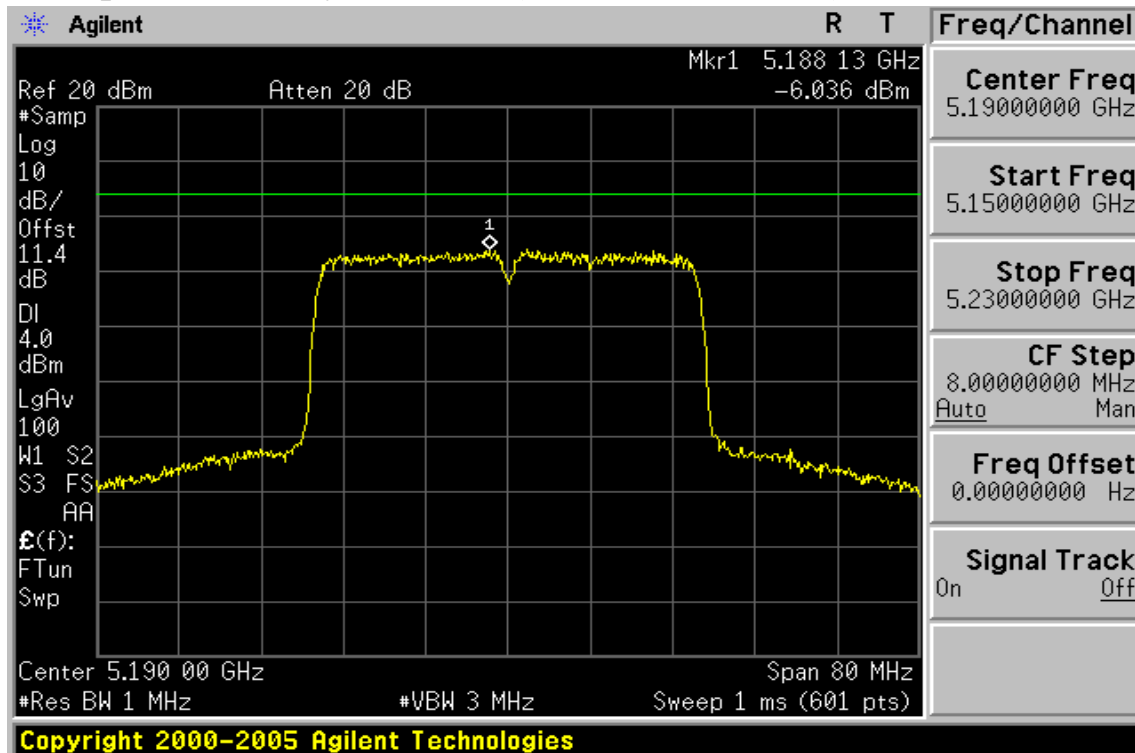
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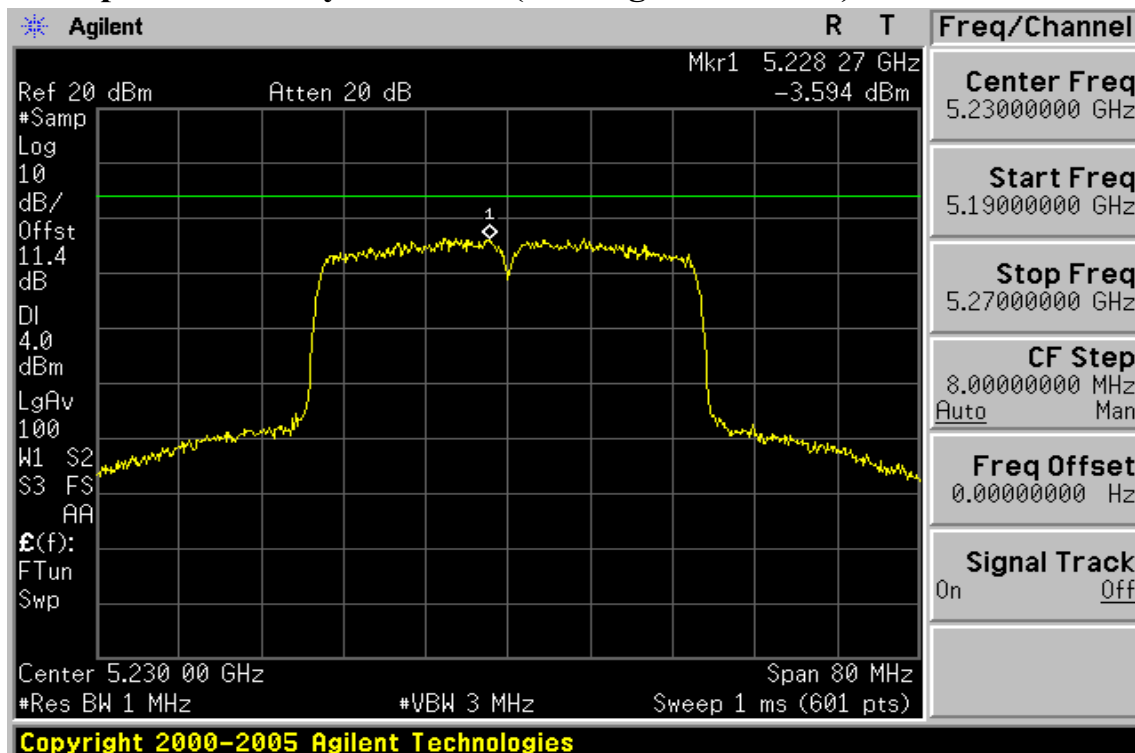
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## 802.11n HT40, 5150~5250 MHz

### Peak Power Spectral Density Data Plot (CH Low 5190 MHz)



### Peak Power Spectral Density Data Plot (CH High 5230 MHz)



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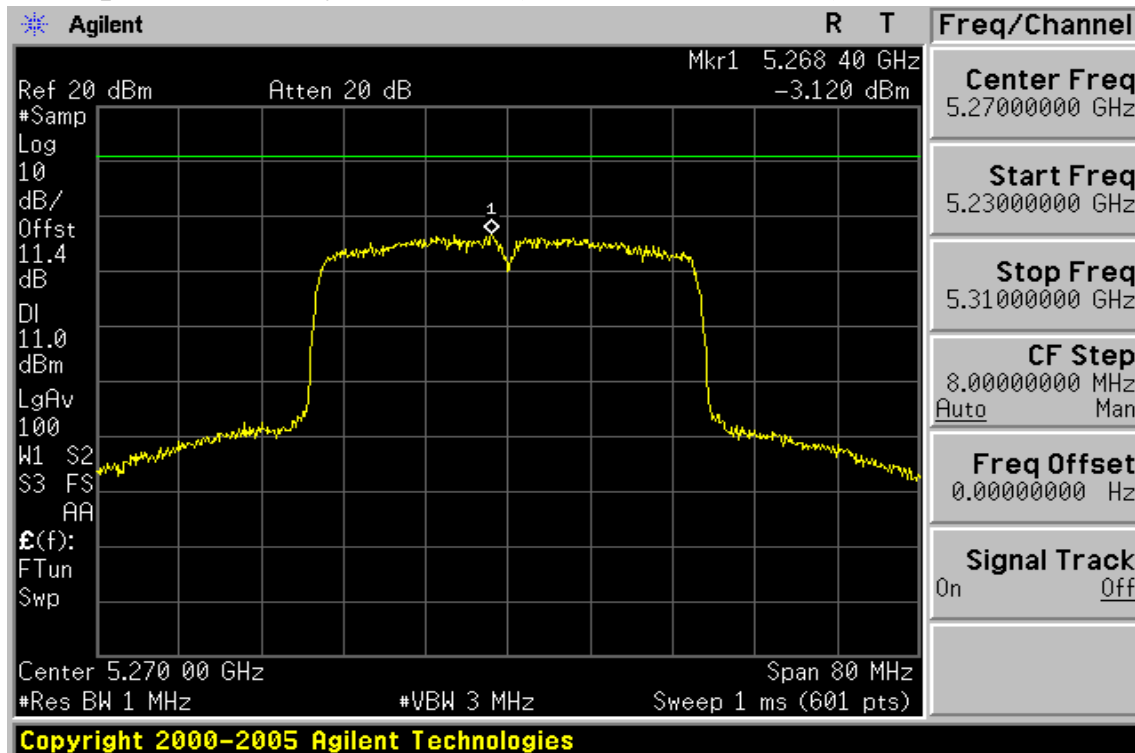
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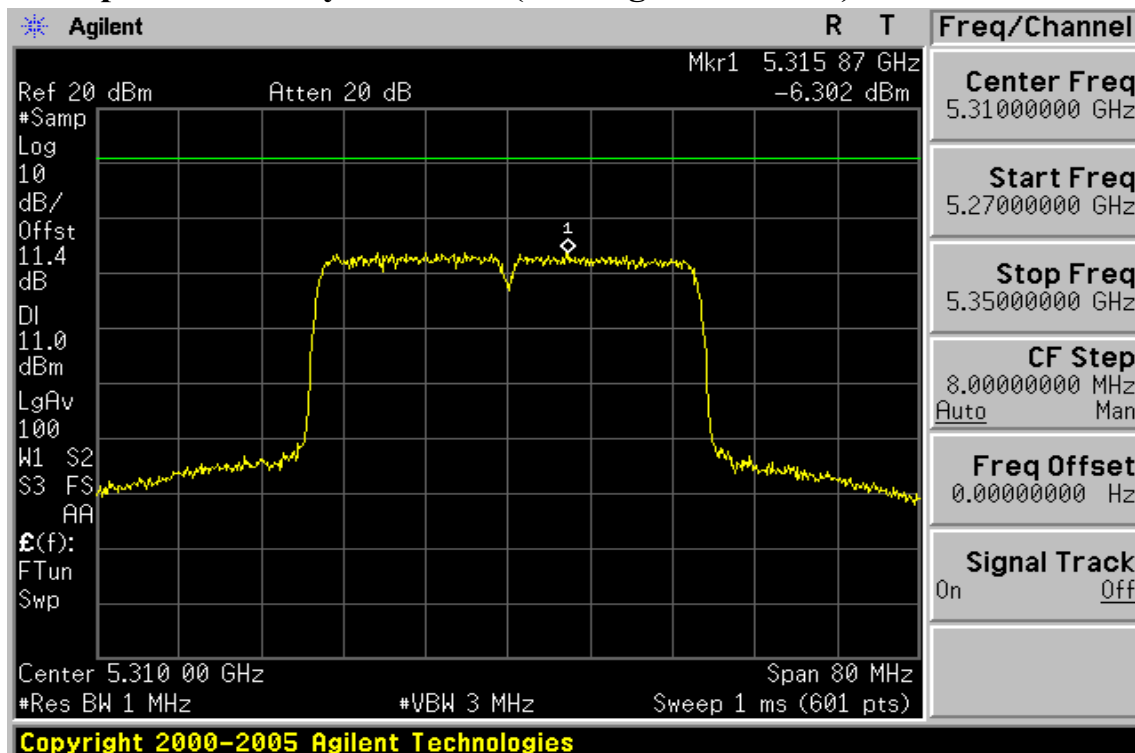
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## 802.11n HT40, 5250~5350 MHz

### Peak Power Spectral Density Data Plot (CH Low 5270 MHz)



### Peak Power Spectral Density Data Plot (CH High 5310 MHz)



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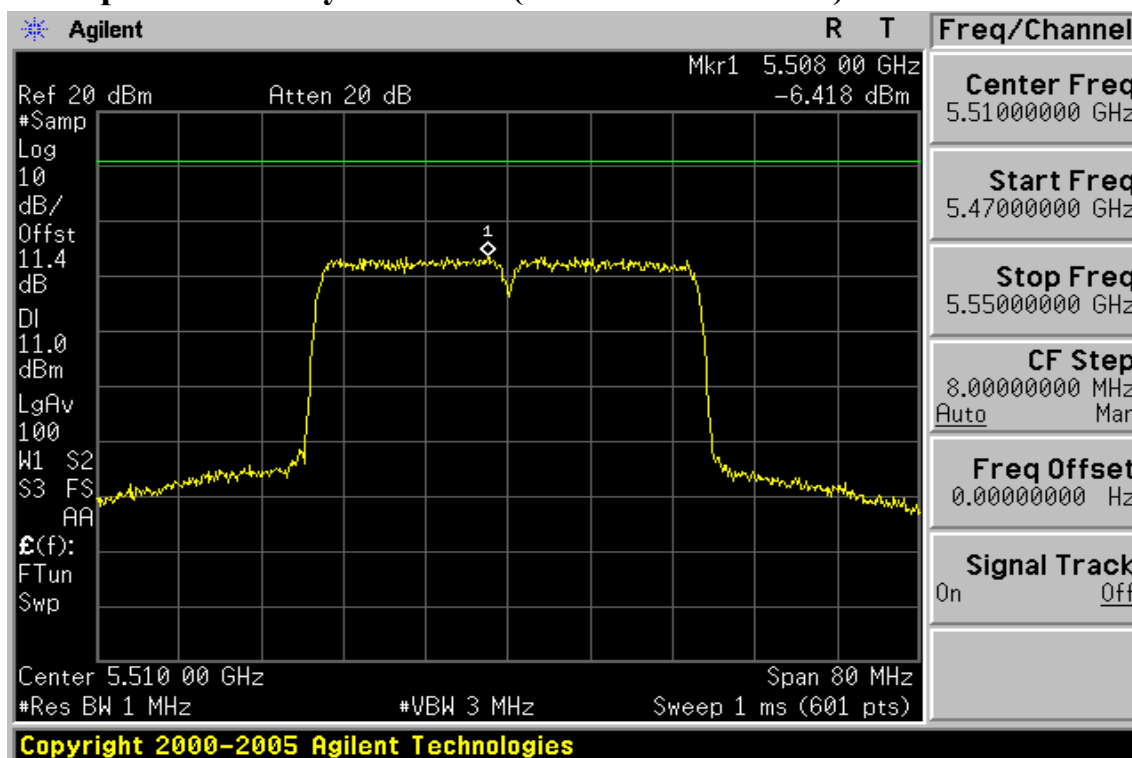
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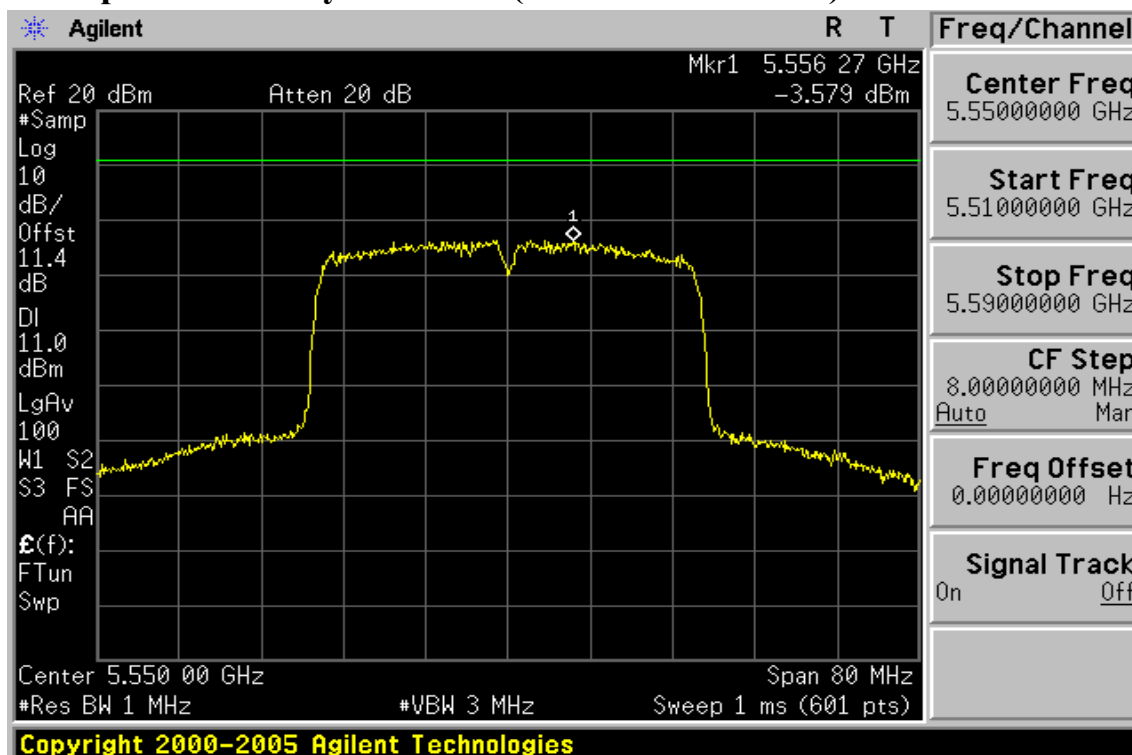
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## 802.11n HT40, 5470~5725 MHz

### Peak Power Spectral Density Data Plot (CH Low 5510 MHz)



### Peak Power Spectral Density Data Plot (CH Mid 5550 MHz)



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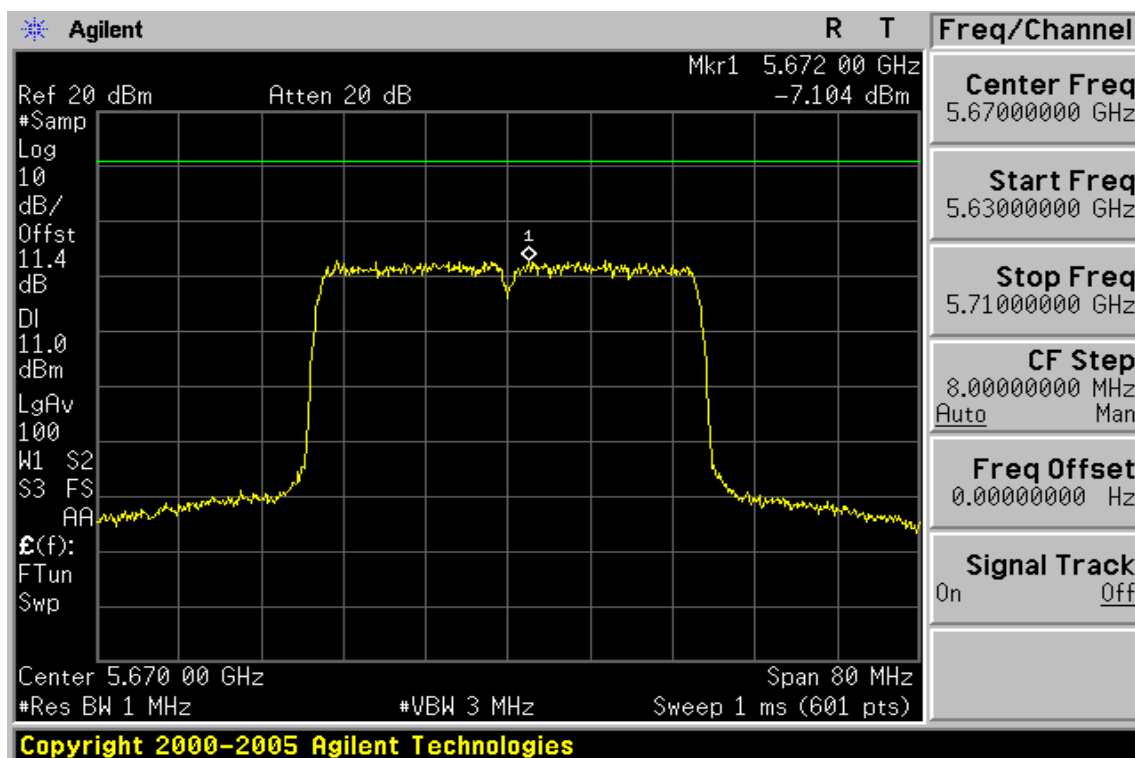
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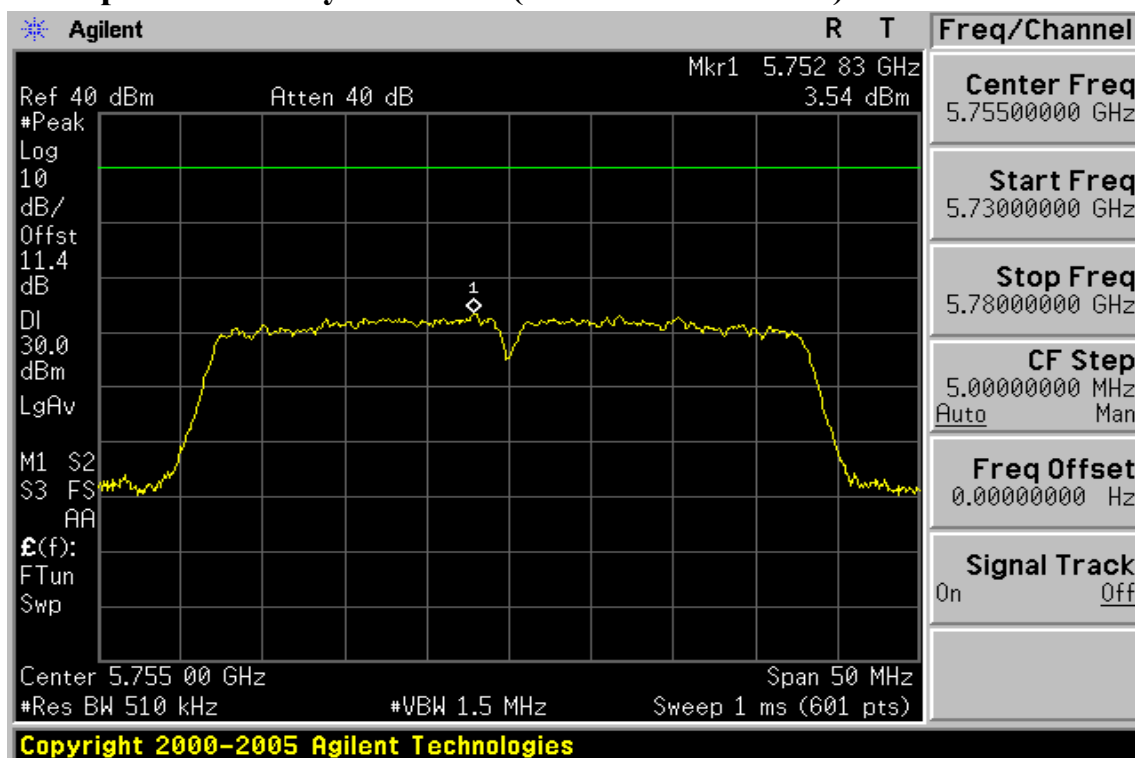
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## Peak Power Spectral Density Data Plot (CH High 5670 MHz)



## 802.11n HT40, 5725~5850 MHz

## Peak Power Spectral Density Data Plot (CH Low 5755 MHz)



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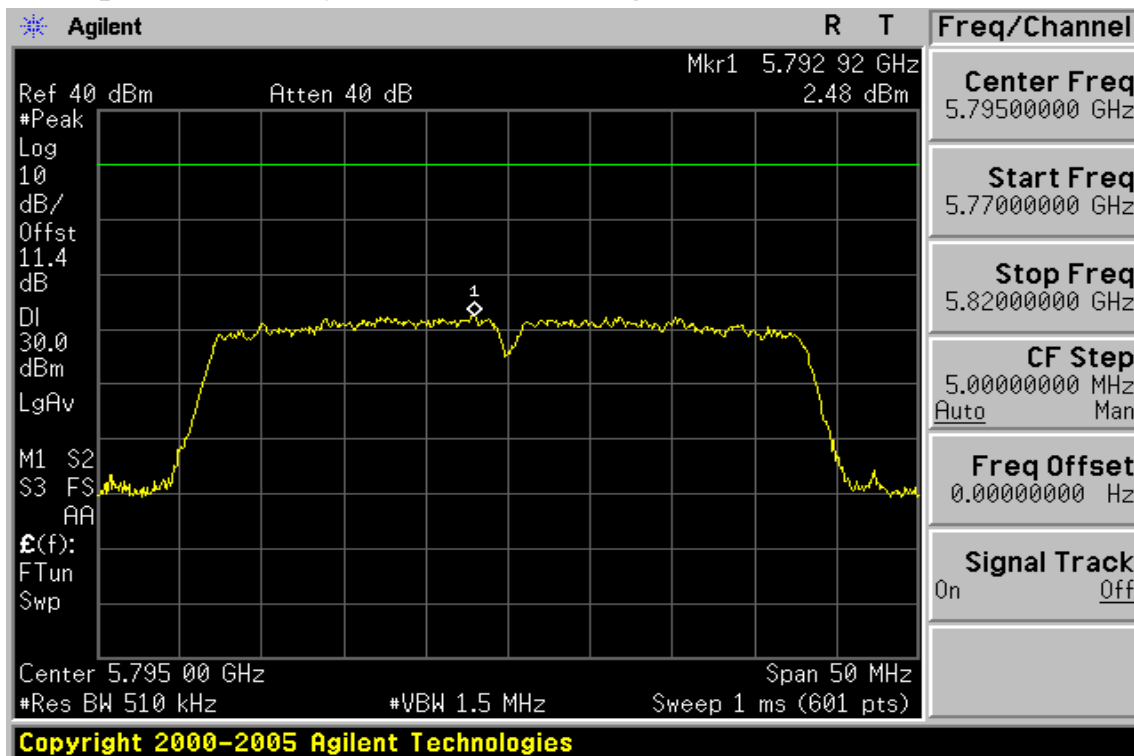
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## Peak Power Spectral Density Data Plot (CH High 5795 MHz)



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## 10. UNDESIRABLE EMISSION - RADIATED MEASUREMENT1

### 10.1 Standard Applicable

According to §15.407(b) (6) (7),

(b) Undesirable Emission Limits: Except as shown in Paragraph (b)(6) of this section, the peak emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in Section 15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in Section 15.207.
- (2) The provisions of Section 15.205 of this part apply to intentional radiators operating under this section.
- (3) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency block edges as the design of the equipment permits.

Procedure H1) a) b) c) are adopted, KDB 789033 D02, where the conducted measurement is being used to comply with out of emission requirement as per FCC 15.407 b) 6) 7)

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## §15.205- RESTRICTED BANDS OF OPERATIONS

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

| MHz                        | MHz                 | MHz             | GHz              |
|----------------------------|---------------------|-----------------|------------------|
| 0.090 - 0.110              | 16.42 - 16.423      | 399.9 - 410     | 4.5 - 5.15       |
| <sup>1</sup> 0.495 - 0.505 | 16.69475 - 16.69525 | 608 - 614       | 5.35 - 5.46      |
| 2.1735 - 2.1905            | 16.80425 - 16.80475 | 960 - 1240      | 7.25 - 7.75      |
| 4.125 - 4.128              | 25.5 - 25.67        | 1300 - 1427     | 8.025 - 8.5      |
| 4.17725 - 4.17775          | 37.5 - 38.25        | 1435 - 1626.5   | 9.0 - 9.2        |
| 4.20725 - 4.20775          | 73 - 74.6           | 1645.5 - 1646.5 | 9.3 - 9.5        |
| 6.215 - 6.218              | 74.8 - 75.2         | 1660 - 1710     | 10.6 - 12.7      |
| 6.26775 - 6.26825          | 108 - 121.94        | 1718.8 - 1722.2 | 13.25 - 13.4     |
| 6.31175 - 6.31225          | 123 - 138           | 2200 - 2300     | 14.47 - 14.5     |
| 8.291 - 8.294              | 149.9 - 150.05      | 2310 - 2390     | 15.35 - 16.2     |
| 8.362 - 8.366              | 156.52475 -         | 2483.5 - 2500   | 17.7 - 21.4      |
| 8.37625 - 8.38675          | 156.52525           | 2655 - 2900     | 22.01 - 23.12    |
| 8.41425 - 8.41475          | 156.7 - 156.9       | 3260 - 3267     | 23.6 - 24.0      |
| 12.29 - 12.293             | 162.0125 - 167.17   | 3332 - 3339     | 31.2 - 31.8      |
| 12.51975 - 12.52025        | 167.72 - 173.2      | 3345.8 - 3358   | 36.43 - 36.5     |
| 12.57675 - 12.57725        | 240 - 285           | 3600 - 4400     | ( <sup>2</sup> ) |
| 13.36 - 13.41              | 322 - 335.4         |                 |                  |

<sup>1</sup> Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

<sup>2</sup> Above 38.6

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

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## §15.209- RADIATED EMISSION LIMITS: GENERAL REQUIREMENTS

## FCC PART 15.209

| MEASURING DISTANCE OF 3 METER |                                  |                            |
|-------------------------------|----------------------------------|----------------------------|
| FREQUENCY RANGE<br>(MHz)      | FIELD STRENGTH<br>(Microvolts/m) | FIELD STRENGTH<br>(dBuV/m) |
| 30-88                         | 100                              | 40                         |
| 88-216                        | 150                              | 43.5                       |
| 216-960                       | 200                              | 46                         |
| Above 960                     | 500                              | 54                         |

## 10.1.1 Transmitter Spurious Emission Limits

Spurious emissions from licence-exempt transmitters shall comply with the field strength limits shown below. Additionally, the level of any transmitter spurious emission shall not exceed the level of the transmitter's fundamental emission.

Table 5: General Field Strength Limits for Transmitters at Frequencies Above 30 MHz

| Frequency<br>(MHz) | Field Strength<br>(microvolt/m at 3 metres) |
|--------------------|---------------------------------------------|
| 30-88              | 100                                         |
| 88-216             | 150                                         |
| 216-960            | 200                                         |
| Above 960          | 500                                         |

**Note:** Transmitting devices are not permitted in Table 1 bands or, unless stated otherwise, in TV bands (54-72 MHz, 76-88 MHz, 174-216 MHz, 470-608 MHz and 614-806 MHz).

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**10.1.2 Unwanted Emission that complies with the undesirable emission ruling by 15.407 (b) (1) (2) (3)**

| Frequencies (MHz) | EIRP Limit (dBm) | Equivalent Field Strength at 3m (dBuV/m) |
|-------------------|------------------|------------------------------------------|
| 5150 – 5250       | -27              | 68.3                                     |
| 5250 – 5350       | -27              | 68.3                                     |
| 5470 - 5725       | -27              | 68.3                                     |
| 5725 - 5850       | -27              | 68.3                                     |

Limit derivation in terms of Field Strength:

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

$$E = 1000000 \cdot (30 \cdot EIRP)^{1/2} / 3 \text{ uV/m}$$

$$= 68.3 \text{ dBuV/m}$$

**10.1.3 Band edge that complies with the ruling by FCC 14-30 (iv) (6),**

| Frequencies (MHz) | EIRP Limit (dBm) | Equivalent Field Strength at 3m (dBuV/m) |
|-------------------|------------------|------------------------------------------|
| 5725 – 5850       | -17              | 78.2                                     |

Limit derivation in terms of band edge:

$$E = 1000000 \cdot (30 \cdot EIRP)^{1/2} / 3 \text{ uV/m}$$

$$= 78.2 \text{ dBuV/m}$$

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## 10.2 EUT Setup

1. The radiated emission tests were performed in the 3 meter open-test site, using the setup in accordance with the ANSI C63.4:2009 & ANSI C63.10:2009.
2. The EUT was put in the front of the test table. The host PC system was placed on the center of the back edge on the test table. The peripherals like modem, monitor printer, K/B, and mouse were placed on the side of the host PC system. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The keyboard was placed directly in the front of the monitor, flushed with the front tabletop. The mouse was placed next to the Keyboard, flushed with the back of keyboard.
4. The spacing between the peripherals was 10 centimeters.
5. External I/O cables were draped along the edge of the test table and bundle when necessary.
6. The host PC system was connected with 120Vac/60Hz power source.

## 10.3 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until all frequency measured were complete.

For measurements below 1GHz, follow the KDB 789033 D01 requirements in section H)3), “General Requirements for Unwanted Emissions Measurements” Compliance shall be demonstrated using CISPR quasi-peak detection; however, peak detection is permitted as an alternative to quasi-peak detection.

For Measurement above 1GHz, for peak unwanted emission measurements follow the KDB 789033 D02 requirements in section H)5) b), for average unwanted emission measurements follow the KDB 789033 D02 requirements in section H)6) c) or d).

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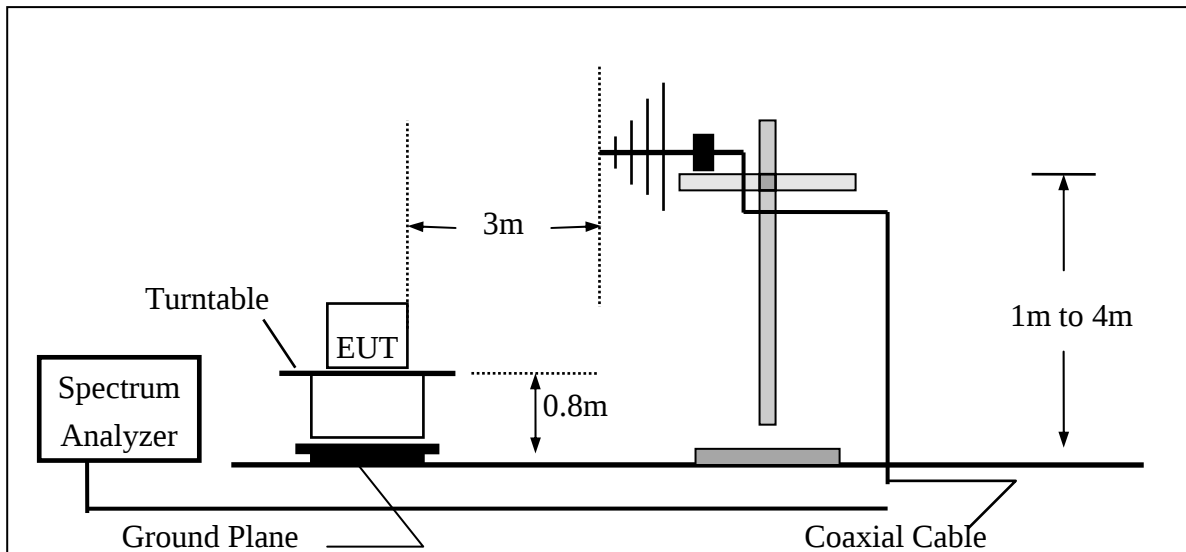
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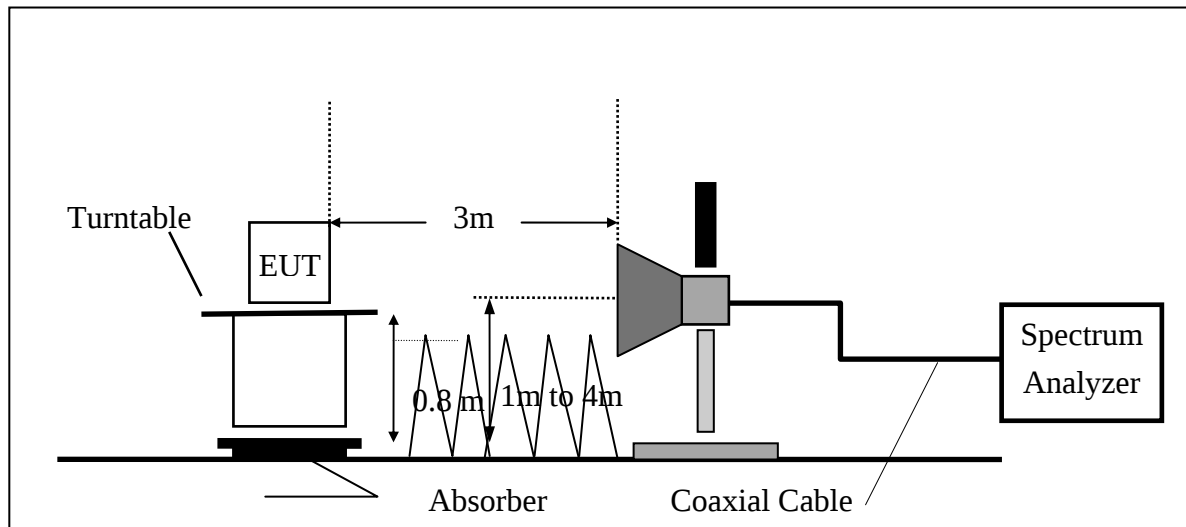
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## 10.4 Test SET-UP (Block Diagram of Configuration)

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



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



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## 10.5 Measurement Equipment Used:

| 966 Chamber                  |                       |              |               |            |            |
|------------------------------|-----------------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE               | MFR                   | MODEL NUMBER | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
| EMI Test Receiver            | R&S                   | ESCI7        | 100760        | 05/26/2014 | 05/25/2015 |
| Spectrum Analyzer            | Agilent               | E4446A       | MY51100003    | 05/19/2014 | 05/18/2015 |
| EXA Spectrum Analyzer        | Agilent               | N9010A       | MY50420195    | 01/20/2014 | 01/19/2015 |
| Spectrum Analyzer            | R&S                   | FSV-30       | 101398        | 10/07/2014 | 10/06/2015 |
| Loop Antenna                 | ETS.LINDGREN          | 6502         | 00148045      | 07/03/2014 | 07/02/2015 |
| Bilog Antenna                | SCHWAZBECK            | VULB9168     | 378           | 05/19/2014 | 05/18/2015 |
| Horn antenna                 | ETS.LINDGREN          | 3117         | 123995        | 05/19/2014 | 05/18/2015 |
| Horn Antenna                 | Schwarzbeck           | BBHA9170     | 184           | 01/23/2014 | 01/22/2015 |
| Pre-Amplifier                | EMC Instruments Corp. | EMC0126530   | 980038        | 01/03/2014 | 01/02/2015 |
| Pre-Amplifier                | Agilent               | 8447D        | 2944A07676    | 01/03/2014 | 01/02/2015 |
| Pre-Amplifier                | Agilent               | 8449B        | 3008A00578    | 01/03/2014 | 01/02/2015 |
| Pre-Amplifier                | EMC Instruments Corp. | EMC184045    | 980135        | 01/24/2014 | 01/23/2015 |
| 5150-5350 Band Reject Filter | Micro-Tronics         | BRM50703     | 1             | 01/03/2014 | 01/02/2015 |
| 5470-5725 Band Reject Filter | Micro-Tronics         | BRM50704     | 1             | 01/03/2014 | 01/02/2015 |
| 5725-5875 Band Reject Filter | Micro-Tronics         | BRM50705     | 1             | 01/03/2014 | 01/02/2015 |
| 1GHz High Pass Filter        | Micro-Tronics         | HPM50108     | 32            | 02/27/2014 | 02/26/2015 |
| 2GHz High Pass Filter        | Micro-Tronics         | HPM50110     | 36            | 02/27/2014 | 02/26/2015 |
| Attenuator                   | Mini-Circuit          | BW-S10W2+    | 002           | 02/27/2014 | 02/26/2015 |
| Turn Table                   | HD                    | DT420        | N/A           | N.C.R      | N.C.R      |
| Antenna Tower                | HD                    | MA240-N      | 240/657       | N.C.R      | N.C.R      |
| Controller                   | HD                    | HD100        | N/A           | N.C.R      | N.C.R      |
| Low Loss Cable               | Huber Suhner          | 966_Rx       | 9             | 01/03/2014 | 01/02/2015 |
| 3m Site NSA                  | SGS                   | 966 chamber  | N/A           | 07/15/2014 | 07/14/2015 |

Note: please refer to next page for the tablet.

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## 10.6 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    |                                            |

## 10.7 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**

For measurement plot of radiation revealing the compliance of 15.209, please refer to Appendix I.

|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5180 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW   | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 43.58    | S       | Peak     | 43.00         | -13.27 | 29.73    | 40.00    | -10.27 |
| 107.60   | S       | Peak     | 39.74         | -16.47 | 23.27    | 43.50    | -20.23 |
| 225.94   | S       | Peak     | 35.60         | -14.14 | 21.46    | 46.00    | -24.54 |
| 409.27   | S       | Peak     | 29.12         | -8.81  | 20.31    | 46.00    | -25.69 |
| 592.60   | S       | Peak     | 28.11         | -5.10  | 23.01    | 46.00    | -22.99 |
| 863.23   | S       | Peak     | 27.92         | -1.45  | 26.47    | 46.00    | -19.53 |
| 10360.00 | H       | Peak     | 34.00         | 15.30  | 49.30    | 68.30    | -19.00 |
| 15540.00 | H       | ---      |               |        |          |          |        |
| 20720.00 | H       | ---      |               |        |          |          |        |
| 25900.00 | H       | ---      |               |        |          |          |        |
| 31080.00 | H       | ---      |               |        |          |          |        |
| 36260.00 | H       | ---      |               |        |          |          |        |

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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5180 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW   | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 51.34    | S       | Peak             | 30.41                     | -13.00 | 17.41        | 40.00        | -22.59 |
| 147.37   | S       | Peak             | 27.58                     | -12.81 | 14.77        | 43.50        | -28.73 |
| 360.77   | S       | Peak             | 26.60                     | -9.90  | 16.70        | 46.00        | -29.30 |
| 581.93   | S       | Peak             | 28.01                     | -5.08  | 22.93        | 46.00        | -23.07 |
| 764.29   | S       | Peak             | 28.18                     | -2.59  | 25.59        | 46.00        | -20.41 |
| 941.80   | S       | Peak             | 27.16                     | 0.16   | 27.32        | 46.00        | -18.68 |
| 10360.00 | H       | Peak             | 34.14                     | 15.30  | 49.44        | 68.30        | -18.86 |
| 15540.00 | H       | ---              |                           |        |              |              |        |
| 20720.00 | H       | ---              |                           |        |              |              |        |
| 25900.00 | H       | ---              |                           |        |              |              |        |
| 31080.00 | H       | ---              |                           |        |              |              |        |
| 36260.00 | H       | ---              |                           |        |              |              |        |

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|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5220 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX MID   | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 43.58    | S       | Peak     | 42.55         | -13.27 | 29.28    | 40.00    | -10.72 |
| 107.60   | S       | Peak     | 39.31         | -16.47 | 22.84    | 43.50    | -20.66 |
| 223.03   | S       | Peak     | 36.52         | -14.24 | 22.28    | 46.00    | -23.72 |
| 382.11   | S       | Peak     | 28.23         | -9.43  | 18.80    | 46.00    | -27.20 |
| 585.81   | S       | Peak     | 27.35         | -5.04  | 22.31    | 46.00    | -23.69 |
| 783.69   | S       | Peak     | 27.84         | -2.56  | 25.28    | 46.00    | -20.72 |
| 940.83   | H       | Peak     | 26.66         | 0.14   | 26.80    | 46.00    | -19.20 |
| 10440.00 | H       | Peak     | 34.28         | 15.05  | 49.33    | 68.30    | -18.97 |
| 15660.00 | H       | ---      |               |        |          |          |        |
| 20880.00 | H       | ---      |               |        |          |          |        |
| 26100.00 | H       | ---      |               |        |          |          |        |
| 31320.00 | H       | ---      |               |        |          |          |        |
| 36540.00 | H       | ---      |               |        |          |          |        |

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|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5220 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX MID   | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 111.48   | S       | Peak             | 30.69                     | -15.86 | 14.83        | 43.50        | -28.67 |
| 286.08   | S       | Peak             | 27.63                     | -11.51 | 16.12        | 46.00        | -29.88 |
| 477.17   | S       | Peak             | 28.09                     | -7.65  | 20.44        | 46.00        | -25.56 |
| 691.54   | S       | Peak             | 28.18                     | -3.69  | 24.49        | 46.00        | -21.51 |
| 857.41   | S       | Peak             | 28.07                     | -1.50  | 26.57        | 46.00        | -19.43 |
| 955.38   | S       | Peak             | 27.48                     | 0.32   | 27.80        | 46.00        | -18.20 |
| 10440.00 | H       | Peak             | 34.99                     | 15.05  | 50.04        | 68.30        | -18.26 |
| 15660.00 | H       | ---              |                           |        |              |              |        |
| 20880.00 | H       | ---              |                           |        |              |              |        |
| 26100.00 | H       | ---              |                           |        |              |              |        |
| 31320.00 | H       | ---              |                           |        |              |              |        |
| 36540.00 | H       | ---              |                           |        |              |              |        |

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|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5240 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH  | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 43.58    | S       | Peak     | 42.26         | -13.27 | 28.99    | 40.00    | -11.01 |
| 155.13   | S       | Peak     | 36.23         | -12.51 | 23.72    | 43.50    | -19.78 |
| 224.00   | S       | Peak     | 36.32         | -14.20 | 22.12    | 46.00    | -23.88 |
| 377.26   | S       | Peak     | 28.14         | -9.54  | 18.60    | 46.00    | -27.40 |
| 586.78   | S       | Peak     | 28.76         | -5.02  | 23.74    | 46.00    | -22.26 |
| 807.94   | S       | Peak     | 27.50         | -2.06  | 25.44    | 46.00    | -20.56 |
| 10480.00 | H       | Peak     | 34.96         | 15.48  | 50.44    | 68.30    | -17.86 |
| 15720.00 | H       | ---      |               |        |          |          |        |
| 20960.00 | H       | ---      |               |        |          |          |        |
| 26200.00 | H       | ---      |               |        |          |          |        |
| 31440.00 | H       | ---      |               |        |          |          |        |
| 36680.00 | H       | ---      |               |        |          |          |        |

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|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5240 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH  | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 148.34   | S       | Peak             | 30.62                     | -12.77 | 17.85        | 43.50        | -25.65 |
| 286.08   | S       | Peak             | 28.53                     | -11.51 | 17.02        | 46.00        | -28.98 |
| 454.86   | S       | Peak             | 27.38                     | -8.07  | 19.31        | 46.00        | -26.69 |
| 670.20   | S       | Peak             | 27.20                     | -4.05  | 23.15        | 46.00        | -22.85 |
| 822.49   | S       | Peak             | 28.42                     | -2.01  | 26.41        | 46.00        | -19.59 |
| 910.76   | S       | Peak             | 29.05                     | -0.46  | 28.59        | 46.00        | -17.41 |
| 10480.00 | H       | Peak             | 34.53                     | 15.48  | 50.01        | 68.30        | -18.29 |
| 15720.00 | H       | ---              |                           |        |              |              |        |
| 20960.00 | H       | ---              |                           |        |              |              |        |
| 26200.00 | H       | ---              |                           |        |              |              |        |
| 31440.00 | H       | ---              |                           |        |              |              |        |
| 36680.00 | H       | ---              |                           |        |              |              |        |

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## Band edge falling to restricted band

For measurement plot of radiation revealing the compliance of 15.209, please refer to Appendix I

|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 a      | Test Date                | :2014-11-17       |
| Fundamental Frequency | :5180 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane      | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

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

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5150.00 | E       | Average          | 39.31                     | 7.54   | 46.85        | 54.00        | -7.15  |
| 5150.00 | E       | Peak             | 55.43                     | 7.54   | 62.97        | 74.00        | -11.03 |

|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 a      | Test Date                | :2014-11-17       |
| Fundamental Frequency | :5180 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane      | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

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

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5150.00 | E       | Average          | 41.41                     | 7.54   | 48.95        | 54.00        | -5.05  |
| 5150.00 | E       | Peak             | 62.61                     | 7.54   | 70.15        | 74.00        | -3.85  |

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# Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5180 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW      | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane    | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 43.58    | S       | Peak     | 42.95         | -13.27 | 29.68    | 40.00    | -10.32 |
| 87.23    | S       | Peak     | 42.58         | -18.50 | 24.08    | 40.00    | -15.92 |
| 223.03   | S       | Peak     | 35.55         | -14.24 | 21.31    | 46.00    | -24.69 |
| 412.18   | S       | Peak     | 27.83         | -8.77  | 19.06    | 46.00    | -26.94 |
| 696.39   | S       | Peak     | 28.26         | -3.86  | 24.40    | 46.00    | -21.60 |
| 907.85   | S       | Peak     | 27.54         | -0.55  | 26.99    | 46.00    | -19.01 |
| 10360.00 | H       | Peak     | 34.24         | 15.30  | 49.54    | 68.30    | -18.76 |
| 15540.00 | H       | ---      |               |        |          |          |        |
| 20720.00 | H       | ---      |               |        |          |          |        |
| 25900.00 | H       | ---      |               |        |          |          |        |
| 31080.00 | H       | ---      |               |        |          |          |        |
| 36260.00 | H       | ---      |               |        |          |          |        |

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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5180 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW      | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane    | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 107.60   | S       | Peak             | 31.79                     | -16.47 | 15.32        | 43.50        | -28.18 |
| 252.13   | S       | Peak             | 28.17                     | -12.98 | 15.19        | 46.00        | -30.81 |
| 420.91   | S       | Peak             | 27.27                     | -8.79  | 18.48        | 46.00        | -27.52 |
| 584.84   | S       | Peak             | 28.21                     | -5.04  | 23.17        | 46.00        | -22.83 |
| 779.81   | S       | Peak             | 27.48                     | -2.66  | 24.82        | 46.00        | -21.18 |
| 903.00   | S       | Peak             | 28.22                     | -0.74  | 27.48        | 46.00        | -18.52 |
| 10360.00 | H       | Peak             | 34.77                     | 15.30  | 50.07        | 68.30        | -18.23 |
| 15540.00 | H       | ---              |                           |        |              |              |        |
| 20720.00 | H       | ---              |                           |        |              |              |        |
| 25900.00 | H       | ---              |                           |        |              |              |        |
| 31080.00 | H       | ---              |                           |        |              |              |        |
| 36260.00 | H       | ---              |                           |        |              |              |        |

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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5220 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX MID      | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane    | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 42.61    | S       | Peak             | 42.60                     | -13.35 | 29.25        | 40.00        | -10.75 |
| 155.13   | S       | Peak             | 35.15                     | -12.51 | 22.64        | 43.50        | -20.86 |
| 384.05   | S       | Peak             | 27.16                     | -9.40  | 17.76        | 46.00        | -28.24 |
| 593.57   | S       | Peak             | 29.19                     | -5.13  | 24.06        | 46.00        | -21.94 |
| 745.86   | S       | Peak             | 27.87                     | -2.68  | 25.19        | 46.00        | -20.81 |
| 858.38   | S       | Peak             | 28.15                     | -1.47  | 26.68        | 46.00        | -19.32 |
| 10440.00 | H       | Peak             | 34.27                     | 15.05  | 49.32        | 68.30        | -18.98 |
| 15660.00 | H       | ---              |                           |        |              |              |        |
| 20880.00 | H       | ---              |                           |        |              |              |        |
| 26100.00 | H       | ---              |                           |        |              |              |        |
| 31320.00 | H       | ---              |                           |        |              |              |        |
| 36540.00 | H       | ---              |                           |        |              |              |        |

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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5220 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX MID      | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane    | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 44.55    | S       | Peak             | 31.21                     | -13.21 | 18.00        | 40.00        | -22.00 |
| 148.34   | S       | Peak             | 29.13                     | -12.77 | 16.36        | 43.50        | -27.14 |
| 286.08   | S       | Peak             | 28.69                     | -11.51 | 17.18        | 46.00        | -28.82 |
| 438.37   | S       | Peak             | 28.87                     | -8.67  | 20.20        | 46.00        | -25.80 |
| 682.81   | S       | Peak             | 28.17                     | -3.63  | 24.54        | 46.00        | -21.46 |
| 810.85   | S       | Peak             | 28.06                     | -2.03  | 26.03        | 46.00        | -19.97 |
| 10440.00 | H       | Peak             | 33.99                     | 15.05  | 49.04        | 68.30        | -19.26 |
| 15660.00 | H       | ---              |                           |        |              |              |        |
| 20880.00 | H       | ---              |                           |        |              |              |        |
| 26100.00 | H       | ---              |                           |        |              |              |        |
| 31320.00 | H       | ---              |                           |        |              |              |        |
| 36540.00 | H       | ---              |                           |        |              |              |        |

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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5240 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH     | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane    | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 42.61    | S       | Peak     | 41.46         | -13.35 | 28.11    | 40.00    | -11.89 |
| 108.57   | S       | Peak     | 39.56         | -16.28 | 23.28    | 43.50    | -20.22 |
| 225.94   | S       | Peak     | 35.28         | -14.14 | 21.14    | 46.00    | -24.86 |
| 450.01   | S       | Peak     | 28.63         | -8.22  | 20.41    | 46.00    | -25.59 |
| 594.54   | S       | Peak     | 28.31         | -5.18  | 23.13    | 46.00    | -22.87 |
| 788.54   | S       | Peak     | 27.65         | -2.42  | 25.23    | 46.00    | -20.77 |
| 10480.00 | H       | Peak     | 35.32         | 15.48  | 50.80    | 68.30    | -17.50 |
| 15720.00 | H       | ---      |               |        |          |          |        |
| 20960.00 | H       | ---      |               |        |          |          |        |
| 26200.00 | H       | ---      |               |        |          |          |        |
| 31440.00 | H       | ---      |               |        |          |          |        |
| 36680.00 | H       | ---      |               |        |          |          |        |

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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5240 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH     | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane    | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 52.31    | S       | Peak             | 28.81                     | -13.04 | 15.77        | 40.00        | -24.23 |
| 162.89   | S       | Peak             | 27.10                     | -12.51 | 14.59        | 43.50        | -28.91 |
| 362.71   | S       | Peak             | 27.65                     | -9.86  | 17.79        | 46.00        | -28.21 |
| 646.92   | S       | Peak             | 28.27                     | -4.84  | 23.43        | 46.00        | -22.57 |
| 815.70   | S       | Peak             | 27.85                     | -2.01  | 25.84        | 46.00        | -20.16 |
| 935.01   | S       | Peak             | 27.78                     | 0.03   | 27.81        | 46.00        | -18.19 |
| 10480.00 | H       | Peak             | 34.64                     | 15.48  | 50.12        | 68.30        | -18.18 |
| 15720.00 | H       | ---              |                           |        |              |              |        |
| 20960.00 | H       | ---              |                           |        |              |              |        |
| 26200.00 | H       | ---              |                           |        |              |              |        |
| 31440.00 | H       | ---              |                           |        |              |              |        |
| 36680.00 | H       | ---              |                           |        |              |              |        |

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|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M   | Test Date                | :2014-11-17       |
| Fundamental Frequency | :5180 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane      | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

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

| Freq.   | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|---------|---------|----------|---------------|--------|----------|----------|--------|
|         |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz     | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 5150.00 | E       | Average  | 39.27         | 7.54   | 46.81    | 54.00    | -7.19  |
| 5150.00 | E       | Peak     | 51.94         | 7.54   | 59.48    | 74.00    | -14.52 |

|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M   | Test Date                | :2014-11-17       |
| Fundamental Frequency | :5180 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane      | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

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

| Freq.   | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|---------|---------|----------|---------------|--------|----------|----------|--------|
|         |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz     | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 5150.00 | E       | Average  | 41.39         | 7.54   | 48.93    | 54.00    | -5.07  |
| 5150.00 | E       | Peak     | 59.63         | 7.54   | 67.17    | 74.00    | -6.83  |

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**Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz**

|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n40M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5190 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW      | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane    | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 32.91    | S       | Peak     | 49.38         | -13.88 | 35.50    | 40.00    | -4.50  |
| 99.84    | S       | Peak     | 34.79         | -17.96 | 16.83    | 43.50    | -26.67 |
| 286.08   | S       | Peak     | 28.98         | -11.51 | 17.47    | 46.00    | -28.53 |
| 443.22   | S       | Peak     | 28.83         | -8.50  | 20.33    | 46.00    | -25.67 |
| 688.63   | S       | Peak     | 28.05         | -3.64  | 24.41    | 46.00    | -21.59 |
| 942.77   | S       | Peak     | 27.67         | 0.17   | 27.84    | 46.00    | -18.16 |
| 10380.00 | H       | Peak     | 34.54         | 15.16  | 49.70    | 68.30    | -18.60 |
| 15570.00 | H       | ---      |               |        |          |          |        |
| 20760.00 | H       | ---      |               |        |          |          |        |
| 25950.00 | H       | ---      |               |        |          |          |        |
| 31140.00 | H       | ---      |               |        |          |          |        |
| 36330.00 | H       | ---      |               |        |          |          |        |

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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n40M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5190 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW      | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane    | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 32.91    | S       | Peak             | 35.12                     | -13.88 | 21.24        | 40.00        | -18.76 |
| 114.39   | S       | Peak             | 32.56                     | -15.56 | 17.00        | 43.50        | -26.50 |
| 286.08   | S       | Peak             | 28.80                     | -11.51 | 17.29        | 46.00        | -28.71 |
| 459.71   | S       | Peak             | 28.37                     | -7.93  | 20.44        | 46.00        | -25.56 |
| 686.69   | S       | Peak             | 28.41                     | -3.64  | 24.77        | 46.00        | -21.23 |
| 953.44   | S       | Peak             | 27.45                     | 0.30   | 27.75        | 46.00        | -18.25 |
| 10380.00 | H       | Peak             | 34.08                     | 15.16  | 49.24        | 68.30        | -19.06 |
| 15570.00 | H       | ---              |                           |        |              |              |        |
| 20760.00 | H       | ---              |                           |        |              |              |        |
| 25950.00 | H       | ---              |                           |        |              |              |        |
| 31140.00 | H       | ---              |                           |        |              |              |        |
| 36330.00 | H       | ---              |                           |        |              |              |        |

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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n40M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5230 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH     | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane    | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 32.91    | S       | Peak             | 49.72                     | -13.88 | 35.84        | 40.00        | -4.16  |
| 99.84    | S       | Peak             | 36.44                     | -17.96 | 18.48        | 43.50        | -25.02 |
| 286.08   | S       | Peak             | 29.07                     | -11.51 | 17.56        | 46.00        | -28.44 |
| 581.93   | S       | Peak             | 28.89                     | -5.08  | 23.81        | 46.00        | -22.19 |
| 773.99   | S       | Peak             | 27.92                     | -2.66  | 25.26        | 46.00        | -20.74 |
| 938.89   | S       | Peak             | 28.08                     | 0.11   | 28.19        | 46.00        | -17.81 |
| 10460.00 | H       | Peak             | 34.19                     | 15.25  | 49.44        | 68.30        | -18.86 |
| 15690.00 | H       | ---              |                           |        |              |              |        |
| 20920.00 | H       | ---              |                           |        |              |              |        |
| 26150.00 | H       | ---              |                           |        |              |              |        |
| 31380.00 | H       | ---              |                           |        |              |              |        |
| 36610.00 | H       | ---              |                           |        |              |              |        |

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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n40M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5230 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH     | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane    | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 32.91    | S       | Peak             | 35.38                     | -13.88 | 21.50        | 40.00        | -18.50 |
| 110.51   | S       | Peak             | 32.79                     | -15.96 | 16.83        | 43.50        | -26.67 |
| 286.08   | S       | Peak             | 29.14                     | -11.51 | 17.63        | 46.00        | -28.37 |
| 503.36   | S       | Peak             | 27.97                     | -7.39  | 20.58        | 46.00        | -25.42 |
| 674.08   | S       | Peak             | 28.35                     | -3.88  | 24.47        | 46.00        | -21.53 |
| 930.16   | S       | Peak             | 28.75                     | -0.06  | 28.69        | 46.00        | -17.31 |
| 10460.00 | H       | Peak             | 34.22                     | 15.25  | 49.47        | 68.30        | -18.83 |
| 15690.00 | H       | ---              |                           |        |              |              |        |
| 20920.00 | H       | ---              |                           |        |              |              |        |
| 26150.00 | H       | ---              |                           |        |              |              |        |
| 31380.00 | H       | ---              |                           |        |              |              |        |
| 36610.00 | H       | ---              |                           |        |              |              |        |

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|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n40M   | Test Date                | :2014-11-17       |
| Fundamental Frequency | :5190 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane      | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

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

| Freq.   | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|---------|---------|----------|---------------|--------|----------|----------|--------|
|         |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz     | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 5150.00 | E       | Average  | 39.29         | 7.54   | 46.83    | 54.00    | -7.17  |
| 5150.00 | E       | Peak     | 56.20         | 7.54   | 63.74    | 74.00    | -10.26 |

|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n40M   | Test Date                | :2014-11-17       |
| Fundamental Frequency | :5190 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane      | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

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

| Freq.   | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|---------|---------|----------|---------------|--------|----------|----------|--------|
|         |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz     | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 5150.00 | E       | Average  | 45.18         | 7.54   | 52.72    | 54.00    | -1.28  |
| 5150.00 | E       | Peak     | 61.60         | 7.54   | 69.14    | 74.00    | -4.86  |

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

|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5260 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW   | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 41.64    | S       | Peak     | 43.51         | -13.42 | 30.09    | 40.00    | -9.91  |
| 88.20    | S       | Peak     | 43.38         | -18.68 | 24.70    | 43.50    | -18.80 |
| 224.97   | S       | Peak     | 36.02         | -14.17 | 21.85    | 46.00    | -24.15 |
| 442.25   | S       | Peak     | 28.59         | -8.54  | 20.05    | 46.00    | -25.95 |
| 590.66   | S       | Peak     | 27.98         | -5.02  | 22.96    | 46.00    | -23.04 |
| 861.29   | S       | Peak     | 27.90         | -1.44  | 26.46    | 46.00    | -19.54 |
| 10520.00 | H       | Peak     | 34.40         | 15.36  | 49.76    | 68.30    | -18.54 |
| 15780.00 | H       | ---      |               |        |          |          |        |
| 21040.00 | H       | ---      |               |        |          |          |        |
| 26300.00 | H       | ---      |               |        |          |          |        |
| 31560.00 | H       | ---      |               |        |          |          |        |
| 36820.00 | H       | ---      |               |        |          |          |        |

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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5260 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW   | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 43.58    | S       | Peak             | 28.59                     | -13.27 | 15.32        | 40.00        | -24.68 |
| 155.13   | S       | Peak             | 28.47                     | -12.51 | 15.96        | 43.50        | -27.54 |
| 286.08   | S       | Peak             | 28.24                     | -11.51 | 16.73        | 46.00        | -29.27 |
| 465.53   | S       | Peak             | 27.56                     | -7.81  | 19.75        | 46.00        | -26.25 |
| 682.81   | S       | Peak             | 27.75                     | -3.63  | 24.12        | 46.00        | -21.88 |
| 929.19   | S       | Peak             | 27.35                     | -0.09  | 27.26        | 46.00        | -18.74 |
| 10520.00 | H       | Peak             | 34.79                     | 15.36  | 50.15        | 68.30        | -18.15 |
| 15780.00 | H       | ---              |                           |        |              |              |        |
| 21040.00 | H       | ---              |                           |        |              |              |        |
| 26300.00 | H       | ---              |                           |        |              |              |        |
| 31560.00 | H       | ---              |                           |        |              |              |        |
| 36820.00 | H       | ---              |                           |        |              |              |        |

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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5300 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX MID   | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 42.61    | S       | Peak             | 42.56                     | -13.35 | 29.21        | 40.00        | -10.79 |
| 107.60   | S       | Peak             | 39.76                     | -16.47 | 23.29        | 43.50        | -20.21 |
| 221.09   | S       | Peak             | 36.24                     | -14.30 | 21.94        | 46.00        | -24.06 |
| 421.88   | S       | Peak             | 27.04                     | -8.79  | 18.25        | 46.00        | -27.75 |
| 635.28   | S       | Peak             | 28.04                     | -5.35  | 22.69        | 46.00        | -23.31 |
| 897.18   | S       | Peak             | 26.88                     | -0.97  | 25.91        | 46.00        | -20.09 |
| 10600.00 | H       | Average          | 22.32                     | 15.63  | 37.95        | 54.00        | -16.05 |
| 10600.00 | H       | Peak             | 33.79                     | 15.63  | 49.42        | 74.00        | -24.58 |
| 15900.00 | H       | ---              |                           |        |              |              |        |
| 21200.00 | H       | ---              |                           |        |              |              |        |
| 26500.00 | H       | ---              |                           |        |              |              |        |
| 31800.00 | H       | ---              |                           |        |              |              |        |
| 37100.00 | H       | ---              |                           |        |              |              |        |

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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5300 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX MID   | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 41.64    | S       | Peak             | 29.68                     | -13.42 | 16.26        | 40.00        | -23.74 |
| 149.31   | S       | Peak             | 30.09                     | -12.73 | 17.36        | 43.50        | -26.14 |
| 286.08   | S       | Peak             | 29.21                     | -11.51 | 17.70        | 46.00        | -28.30 |
| 446.13   | S       | Peak             | 27.90                     | -8.38  | 19.52        | 46.00        | -26.48 |
| 677.96   | S       | Peak             | 27.81                     | -3.71  | 24.10        | 46.00        | -21.90 |
| 898.15   | S       | Peak             | 27.09                     | -0.93  | 26.16        | 46.00        | -19.84 |
| 10600.00 | H       | Average          | 22.52                     | 15.63  | 38.15        | 54.00        | -15.85 |
| 10600.00 | H       | Peak             | 34.60                     | 15.63  | 50.23        | 74.00        | -23.77 |
| 15900.00 | H       | ---              |                           |        |              |              |        |
| 21200.00 | H       | ---              |                           |        |              |              |        |
| 26500.00 | H       | ---              |                           |        |              |              |        |
| 31800.00 | H       | ---              |                           |        |              |              |        |
| 37100.00 | H       | ---              |                           |        |              |              |        |

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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5320 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH  | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 42.61    | S       | Peak     | 42.41         | -13.35 | 29.06    | 40.00    | -10.94 |
| 155.13   | S       | Peak     | 35.85         | -12.51 | 23.34    | 43.50    | -20.16 |
| 383.08   | S       | Peak     | 29.15         | -9.41  | 19.74    | 46.00    | -26.26 |
| 528.58   | S       | Peak     | 28.26         | -7.35  | 20.91    | 46.00    | -25.09 |
| 759.44   | S       | Peak     | 27.33         | -2.52  | 24.81    | 46.00    | -21.19 |
| 935.98   | S       | Peak     | 27.83         | 0.06   | 27.89    | 46.00    | -18.11 |
| 10640.00 | H       | Average  | 22.52         | 15.64  | 38.16    | 54.00    | -15.84 |
| 10640.00 | H       | Peak     | 34.24         | 15.64  | 49.88    | 74.00    | -24.12 |
| 15960.00 | H       | ---      |               |        |          |          |        |
| 21280.00 | H       | ---      |               |        |          |          |        |
| 26600.00 | H       | ---      |               |        |          |          |        |
| 31920.00 | H       | ---      |               |        |          |          |        |
| 37240.00 | H       | ---      |               |        |          |          |        |

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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5320 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH  | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 106.63   | S       | Peak             | 32.06                     | -16.64 | 15.42        | 43.50        | -28.08 |
| 286.08   | S       | Peak             | 27.96                     | -11.51 | 16.45        | 46.00        | -29.55 |
| 454.86   | S       | Peak             | 27.13                     | -8.07  | 19.06        | 46.00        | -26.94 |
| 667.29   | S       | Peak             | 28.16                     | -4.13  | 24.03        | 46.00        | -21.97 |
| 770.11   | S       | Peak             | 27.71                     | -2.69  | 25.02        | 46.00        | -20.98 |
| 910.76   | S       | Peak             | 27.40                     | -0.46  | 26.94        | 46.00        | -19.06 |
| 10640.00 | H       | Average          | 23.23                     | 15.64  | 38.87        | 54.00        | -15.13 |
| 10640.00 | H       | Peak             | 34.65                     | 15.64  | 50.29        | 74.00        | -23.71 |
| 15960.00 | H       | ---              |                           |        |              |              |        |
| 21280.00 | H       | ---              |                           |        |              |              |        |
| 26600.00 | H       | ---              |                           |        |              |              |        |
| 31920.00 | H       | ---              |                           |        |              |              |        |
| 37240.00 | H       | ---              |                           |        |              |              |        |

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|                       |                 |                          |                   |
|-----------------------|-----------------|--------------------------|-------------------|
| Operation Band        | :802.11 a       | Test Date                | :2014-11-17       |
| Fundamental Frequency | :5320 MHz       | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge HIGH | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane       | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

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

| Freq.   | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|---------|---------|----------|---------------|--------|----------|----------|--------|
|         |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz     | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 5350.00 | E       | Average  | 39.59         | 7.79   | 47.38    | 54.00    | -6.62  |
| 5350.00 | E       | Peak     | 51.67         | 7.79   | 59.46    | 74.00    | -14.54 |

|                       |                 |                          |                   |
|-----------------------|-----------------|--------------------------|-------------------|
| Operation Band        | :802.11 a       | Test Date                | :2014-11-17       |
| Fundamental Frequency | :5320 MHz       | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge HIGH | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane       | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

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

| Freq.   | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|---------|---------|----------|---------------|--------|----------|----------|--------|
|         |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz     | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 5350.00 | E       | Average  | 40.85         | 7.79   | 48.64    | 54.00    | -5.36  |
| 5350.00 | E       | Peak     | 53.70         | 7.79   | 61.49    | 74.00    | -12.51 |

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

|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5260 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW      | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane    | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 42.61    | S       | Peak     | 40.24         | -13.35 | 26.89    | 40.00    | -13.11 |
| 108.57   | S       | Peak     | 40.73         | -16.28 | 24.45    | 43.50    | -19.05 |
| 223.03   | S       | Peak     | 35.96         | -14.24 | 21.72    | 46.00    | -24.28 |
| 341.37   | S       | Peak     | 29.47         | -10.38 | 19.09    | 46.00    | -26.91 |
| 680.87   | S       | Peak     | 28.69         | -3.63  | 25.06    | 46.00    | -20.94 |
| 918.52   | S       | Peak     | 27.96         | -0.29  | 27.67    | 46.00    | -18.33 |
| 10520.00 | H       | Peak     | 33.97         | 15.36  | 49.33    | 68.30    | -18.97 |
| 15780.00 | H       | ---      |               |        |          |          |        |
| 21040.00 | H       | ---      |               |        |          |          |        |
| 26300.00 | H       | ---      |               |        |          |          |        |
| 31560.00 | H       | ---      |               |        |          |          |        |
| 36820.00 | H       | ---      |               |        |          |          |        |

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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5260 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW      | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane    | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 30.00    | S       | Peak             | 32.71                     | -13.90 | 18.81        | 40.00        | -21.19 |
| 106.63   | S       | Peak             | 32.53                     | -16.64 | 15.89        | 43.50        | -27.61 |
| 341.37   | S       | Peak             | 30.35                     | -10.38 | 19.97        | 46.00        | -26.03 |
| 568.35   | S       | Peak             | 28.88                     | -5.86  | 23.02        | 46.00        | -22.98 |
| 769.14   | S       | Peak             | 28.39                     | -2.67  | 25.72        | 46.00        | -20.28 |
| 948.59   | S       | Peak             | 27.59                     | 0.25   | 27.84        | 46.00        | -18.16 |
| 10520.00 | H       | Peak             | 34.33                     | 15.36  | 49.69        | 68.30        | -18.61 |
| 15780.00 | H       | ---              |                           |        |              |              |        |
| 21040.00 | H       | ---              |                           |        |              |              |        |
| 26300.00 | H       | ---              |                           |        |              |              |        |
| 31560.00 | H       | ---              |                           |        |              |              |        |
| 36820.00 | H       | ---              |                           |        |              |              |        |

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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5300 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX MID      | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane    | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 42.61    | S       | Peak             | 41.62                     | -13.35 | 28.27        | 40.00        | -11.73 |
| 107.60   | S       | Peak             | 40.23                     | -16.47 | 23.76        | 43.50        | -19.74 |
| 227.88   | S       | Peak             | 35.35                     | -14.07 | 21.28        | 46.00        | -24.72 |
| 425.76   | S       | Peak             | 29.00                     | -8.81  | 20.19        | 46.00        | -25.81 |
| 577.08   | S       | Peak             | 28.22                     | -5.28  | 22.94        | 46.00        | -23.06 |
| 771.08   | S       | Peak             | 28.55                     | -2.69  | 25.86        | 46.00        | -20.14 |
| 10600.00 | H       | Average          | 22.00                     | 15.63  | 37.63        | 54.00        | -16.37 |
| 10600.00 | H       | Peak             | 34.64                     | 15.63  | 50.27        | 74.00        | -23.73 |
| 15900.00 | H       | ---              |                           |        |              |              |        |
| 21200.00 | H       | ---              |                           |        |              |              |        |
| 26500.00 | H       | ---              |                           |        |              |              |        |
| 31800.00 | H       | ---              |                           |        |              |              |        |
| 37100.00 | H       | ---              |                           |        |              |              |        |

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|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5300 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX MID      | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane    | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 148.34   | S       | Peak             | 30.00                     | -12.77 | 17.23        | 43.50        | -26.27 |
| 342.34   | S       | Peak             | 29.59                     | -10.35 | 19.24        | 46.00        | -26.76 |
| 457.77   | S       | Peak             | 28.66                     | -7.99  | 20.67        | 46.00        | -25.33 |
| 592.60   | S       | Peak             | 28.29                     | -5.10  | 23.19        | 46.00        | -22.81 |
| 786.60   | S       | Peak             | 28.19                     | -2.47  | 25.72        | 46.00        | -20.28 |
| 948.59   | S       | Peak             | 27.56                     | 0.25   | 27.81        | 46.00        | -18.19 |
| 10600.00 | H       | Average          | 22.14                     | 15.63  | 37.77        | 54.00        | -16.23 |
| 10600.00 | H       | Peak             | 33.72                     | 15.63  | 49.35        | 74.00        | -24.65 |
| 15900.00 | H       | ---              |                           |        |              |              |        |
| 21200.00 | H       | ---              |                           |        |              |              |        |
| 26500.00 | H       | ---              |                           |        |              |              |        |
| 31800.00 | H       | ---              |                           |        |              |              |        |
| 37100.00 | H       | ---              |                           |        |              |              |        |

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|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5320 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH     | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane    | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 42.61    | S       | Peak             | 40.63                     | -13.35 | 27.28        | 40.00        | -12.72 |
| 108.57   | S       | Peak             | 39.93                     | -16.28 | 23.65        | 43.50        | -19.85 |
| 222.06   | S       | Peak             | 35.75                     | -14.27 | 21.48        | 46.00        | -24.52 |
| 393.75   | S       | Peak             | 29.49                     | -9.20  | 20.29        | 46.00        | -25.71 |
| 659.53   | S       | Peak             | 29.05                     | -4.39  | 24.66        | 46.00        | -21.34 |
| 881.66   | S       | Peak             | 28.68                     | -1.45  | 27.23        | 46.00        | -18.77 |
| 10640.00 | H       | Average          | 21.99                     | 15.64  | 37.63        | 54.00        | -16.37 |
| 10640.00 | H       | Peak             | 34.68                     | 15.64  | 50.32        | 74.00        | -23.68 |
| 15960.00 | H       | ---              |                           |        |              |              |        |
| 21280.00 | H       | ---              |                           |        |              |              |        |
| 26600.00 | H       | ---              |                           |        |              |              |        |
| 31920.00 | H       | ---              |                           |        |              |              |        |
| 37240.00 | H       | ---              |                           |        |              |              |        |

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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5320 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH     | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane    | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 149.31   | S       | Peak             | 28.67                     | -12.73 | 15.94        | 43.50        | -27.56 |
| 344.28   | S       | Peak             | 28.96                     | -10.30 | 18.66        | 46.00        | -27.34 |
| 439.34   | S       | Peak             | 28.80                     | -8.65  | 20.15        | 46.00        | -25.85 |
| 564.47   | S       | Peak             | 29.04                     | -6.17  | 22.87        | 46.00        | -23.13 |
| 751.68   | S       | Peak             | 28.29                     | -2.49  | 25.80        | 46.00        | -20.20 |
| 903.00   | S       | Peak             | 27.42                     | -0.74  | 26.68        | 46.00        | -19.32 |
| 10640.00 | H       | Average          | 22.73                     | 15.64  | 38.37        | 54.00        | -15.63 |
| 10640.00 | H       | Peak             | 33.87                     | 15.64  | 49.51        | 74.00        | -24.49 |
| 15960.00 | H       | ---              |                           |        |              |              |        |
| 21280.00 | H       | ---              |                           |        |              |              |        |
| 26600.00 | H       | ---              |                           |        |              |              |        |
| 31920.00 | H       | ---              |                           |        |              |              |        |
| 37240.00 | H       | ---              |                           |        |              |              |        |

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|                       |                 |                          |                   |
|-----------------------|-----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M    | Test Date                | :2014-11-17       |
| Fundamental Frequency | :5320 MHz       | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge HIGH | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane       | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

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

| Freq.   | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|---------|---------|----------|---------------|--------|----------|----------|--------|
|         |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz     | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 5350.00 | E       | Average  | 39.46         | 7.79   | 47.25    | 54.00    | -6.75  |
| 5350.00 | E       | Peak     | 51.26         | 7.79   | 59.05    | 74.00    | -14.95 |

|                       |                 |                          |                   |
|-----------------------|-----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M    | Test Date                | :2014-11-17       |
| Fundamental Frequency | :5320 MHz       | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge HIGH | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane       | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

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

| Freq.   | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|---------|---------|----------|---------------|--------|----------|----------|--------|
|         |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz     | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 5350.00 | E       | Average  | 40.44         | 7.79   | 48.23    | 54.00    | -5.77  |
| 5350.00 | E       | Peak     | 52.08         | 7.79   | 59.87    | 74.00    | -14.13 |

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**Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz**

|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n40M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5270 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW      | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane    | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 32.91    | S       | Peak     | 49.84         | -13.88 | 35.96    | 40.00    | -4.04  |
| 99.84    | S       | Peak     | 35.18         | -17.96 | 17.22    | 43.50    | -26.28 |
| 286.08   | S       | Peak     | 28.84         | -11.51 | 17.33    | 46.00    | -28.67 |
| 453.89   | S       | Peak     | 27.16         | -8.10  | 19.06    | 46.00    | -26.94 |
| 589.69   | S       | Peak     | 28.23         | -5.00  | 23.23    | 46.00    | -22.77 |
| 951.50   | S       | Peak     | 28.98         | 0.29   | 29.27    | 46.00    | -16.73 |
| 10540.00 | H       | Peak     | 33.68         | 15.27  | 48.95    | 68.30    | -19.35 |
| 15810.00 | H       | ---      |               |        |          |          |        |
| 21080.00 | H       | ---      |               |        |          |          |        |
| 26350.00 | H       | ---      |               |        |          |          |        |
| 31620.00 | H       | ---      |               |        |          |          |        |
| 36890.00 | H       | ---      |               |        |          |          |        |

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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n40M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5270 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW      | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane    | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 35.82    | S       | Peak             | 33.60                     | -13.81 | 19.79        | 40.00        | -20.21 |
| 119.24   | S       | Peak             | 29.87                     | -15.10 | 14.77        | 43.50        | -28.73 |
| 357.86   | S       | Peak             | 26.88                     | -9.96  | 16.92        | 46.00        | -29.08 |
| 589.69   | S       | Peak             | 28.34                     | -5.00  | 23.34        | 46.00        | -22.66 |
| 765.26   | S       | Peak             | 27.97                     | -2.61  | 25.36        | 46.00        | -20.64 |
| 932.10   | S       | Peak             | 28.44                     | -0.03  | 28.41        | 46.00        | -17.59 |
| 10540.00 | H       | Peak             | 34.33                     | 15.27  | 49.60        | 68.30        | -18.70 |
| 15810.00 | H       | ---              |                           |        |              |              |        |
| 21080.00 | H       | ---              |                           |        |              |              |        |
| 26350.00 | H       | ---              |                           |        |              |              |        |
| 31620.00 | H       | ---              |                           |        |              |              |        |
| 36890.00 | H       | ---              |                           |        |              |              |        |

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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n40M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5310 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH     | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane    | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 31.94    | S       | Peak             | 49.45                     | -13.88 | 35.57        | 40.00        | -4.43  |
| 123.12   | S       | Peak             | 29.82                     | -14.75 | 15.07        | 43.50        | -28.43 |
| 286.08   | S       | Peak             | 28.64                     | -11.51 | 17.13        | 46.00        | -28.87 |
| 594.54   | S       | Peak             | 28.33                     | -5.18  | 23.15        | 46.00        | -22.85 |
| 764.29   | S       | Peak             | 27.62                     | -2.59  | 25.03        | 46.00        | -20.97 |
| 958.29   | S       | Peak             | 27.54                     | 0.34   | 27.88        | 46.00        | -18.12 |
| 10620.00 | H       | Average          | 21.80                     | 15.64  | 37.44        | 54.00        | -16.56 |
| 10620.00 | H       | Peak             | 34.65                     | 15.64  | 50.29        | 74.00        | -23.71 |
| 15930.00 | H       | ---              |                           |        |              |              |        |
| 21240.00 | H       | ---              |                           |        |              |              |        |
| 26550.00 | H       | ---              |                           |        |              |              |        |
| 31860.00 | H       | ---              |                           |        |              |              |        |
| 37170.00 | H       | ---              |                           |        |              |              |        |

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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n40M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5310 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH     | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane    | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 35.82    | S       | Peak             | 33.33                     | -13.81 | 19.52        | 40.00        | -20.48 |
| 114.39   | S       | Peak             | 30.55                     | -15.56 | 14.99        | 43.50        | -28.51 |
| 286.08   | S       | Peak             | 28.18                     | -11.51 | 16.67        | 46.00        | -29.33 |
| 525.67   | S       | Peak             | 28.15                     | -7.33  | 20.82        | 46.00        | -25.18 |
| 753.62   | S       | Peak             | 27.53                     | -2.49  | 25.04        | 46.00        | -20.96 |
| 961.20   | S       | Peak             | 27.36                     | 0.36   | 27.72        | 54.00        | -26.28 |
| 10620.00 | H       | Average          | 22.65                     | 15.64  | 38.29        | 54.00        | -15.71 |
| 10620.00 | H       | Peak             | 33.42                     | 15.64  | 49.06        | 74.00        | -24.94 |
| 15930.00 | H       | ---              |                           |        |              |              |        |
| 21240.00 | H       | ---              |                           |        |              |              |        |
| 26550.00 | H       | ---              |                           |        |              |              |        |
| 31860.00 | H       | ---              |                           |        |              |              |        |
| 37170.00 | H       | ---              |                           |        |              |              |        |

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|                       |                 |                          |                   |
|-----------------------|-----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n40M    | Test Date                | :2014-11-17       |
| Fundamental Frequency | :5310 MHz       | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge HIGH | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane       | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

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

| Freq.   | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|---------|---------|----------|---------------|--------|----------|----------|--------|
|         |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz     | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 5350.00 | E       | Average  | 39.60         | 7.79   | 47.39    | 54.00    | -6.61  |
| 5350.00 | E       | Peak     | 53.45         | 7.79   | 61.24    | 74.00    | -12.76 |

|                       |                 |                          |                   |
|-----------------------|-----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n40M    | Test Date                | :2014-11-17       |
| Fundamental Frequency | :5310 MHz       | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge HIGH | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane       | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

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

| Freq.   | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|---------|---------|----------|---------------|--------|----------|----------|--------|
|         |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz     | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 5350.00 | E       | Average  | 45.11         | 7.79   | 52.90    | 54.00    | -1.10  |
| 5350.00 | E       | Peak     | 59.26         | 7.79   | 67.05    | 74.00    | -6.95  |

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

|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5500 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW   | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 43.58    | S       | Peak             | 42.47                     | -13.27 | 29.20        | 40.00        | -10.80 |
| 108.57   | S       | Peak             | 39.49                     | -16.28 | 23.21        | 43.50        | -20.29 |
| 224.00   | S       | Peak             | 35.35                     | -14.20 | 21.15        | 46.00        | -24.85 |
| 384.05   | S       | Peak             | 29.35                     | -9.40  | 19.95        | 46.00        | -26.05 |
| 598.42   | S       | Peak             | 29.74                     | -5.33  | 24.41        | 46.00        | -21.59 |
| 756.53   | S       | Peak             | 28.93                     | -2.51  | 26.42        | 46.00        | -19.58 |
| 11000.00 | H       | Average          | 22.03                     | 16.50  | 38.53        | 54.00        | -15.47 |
| 11000.00 | H       | Peak             | 34.25                     | 16.50  | 50.75        | 74.00        | -23.25 |
| 16500.00 | H       | ---              |                           |        |              |              |        |
| 22000.00 | H       | ---              |                           |        |              |              |        |
| 27500.00 | H       | ---              |                           |        |              |              |        |
| 33000.00 | H       | ---              |                           |        |              |              |        |
| 38500.00 | H       | ---              |                           |        |              |              |        |

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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5500 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW   | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 107.60   | S       | Peak             | 31.71                     | -16.47 | 15.24        | 43.50        | -28.26 |
| 286.08   | S       | Peak             | 28.94                     | -11.51 | 17.43        | 46.00        | -28.57 |
| 479.11   | S       | Peak             | 29.75                     | -7.62  | 22.13        | 46.00        | -23.87 |
| 593.57   | S       | Peak             | 28.34                     | -5.13  | 23.21        | 46.00        | -22.79 |
| 775.93   | S       | Peak             | 28.15                     | -2.67  | 25.48        | 46.00        | -20.52 |
| 918.52   | S       | Peak             | 27.99                     | -0.29  | 27.70        | 46.00        | -18.30 |
| 11000.00 | H       | Average          | 22.99                     | 16.50  | 39.49        | 54.00        | -14.51 |
| 11000.00 | H       | Peak             | 34.90                     | 16.50  | 51.40        | 74.00        | -22.60 |
| 16500.00 | H       | ---              |                           |        |              |              |        |
| 22000.00 | H       | ---              |                           |        |              |              |        |
| 27500.00 | H       | ---              |                           |        |              |              |        |
| 33000.00 | H       | ---              |                           |        |              |              |        |
| 38500.00 | H       | ---              |                           |        |              |              |        |

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|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5580 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX MID   | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 42.61    | S       | Peak             | 42.90                     | -13.35 | 29.55        | 40.00        | -10.45 |
| 107.60   | S       | Peak             | 40.06                     | -16.47 | 23.59        | 43.50        | -19.91 |
| 224.97   | S       | Peak             | 35.67                     | -14.17 | 21.50        | 46.00        | -24.50 |
| 450.98   | S       | Peak             | 29.22                     | -8.19  | 21.03        | 46.00        | -24.97 |
| 635.28   | S       | Peak             | 27.55                     | -5.35  | 22.20        | 46.00        | -23.80 |
| 815.70   | S       | Peak             | 27.67                     | -2.01  | 25.66        | 46.00        | -20.34 |
| 11160.00 | H       | Average          | 21.61                     | 16.87  | 38.48        | 54.00        | -15.52 |
| 11160.00 | H       | Peak             | 33.88                     | 16.87  | 50.75        | 74.00        | -23.25 |
| 16740.00 | H       | ---              |                           |        |              |              |        |
| 22320.00 | H       | ---              |                           |        |              |              |        |
| 27900.00 | H       | ---              |                           |        |              |              |        |
| 33480.00 | H       | ---              |                           |        |              |              |        |
| 39060.00 | H       | ---              |                           |        |              |              |        |

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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5580 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX MID   | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 106.63   | S       | Peak             | 31.14                     | -16.64 | 14.50        | 43.50        | -29.00 |
| 333.61   | S       | Peak             | 27.15                     | -10.64 | 16.51        | 46.00        | -29.49 |
| 492.69   | S       | Peak             | 28.00                     | -7.53  | 20.47        | 46.00        | -25.53 |
| 641.10   | S       | Peak             | 27.26                     | -5.04  | 22.22        | 46.00        | -23.78 |
| 785.63   | S       | Peak             | 27.87                     | -2.50  | 25.37        | 46.00        | -20.63 |
| 951.50   | S       | Peak             | 27.96                     | 0.29   | 28.25        | 46.00        | -17.75 |
| 11160.00 | H       | Average          | 21.98                     | 16.87  | 38.85        | 54.00        | -15.15 |
| 11160.00 | H       | Peak             | 34.15                     | 16.87  | 51.02        | 74.00        | -22.98 |
| 16740.00 | H       | ---              |                           |        |              |              |        |
| 22320.00 | H       | ---              |                           |        |              |              |        |
| 27900.00 | H       | ---              |                           |        |              |              |        |
| 33480.00 | H       | ---              |                           |        |              |              |        |
| 39060.00 | H       | ---              |                           |        |              |              |        |

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|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5700 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH  | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 42.61    | S       | Peak             | 43.08                     | -13.35 | 29.73        | 40.00        | -10.27 |
| 108.57   | S       | Peak             | 39.11                     | -16.28 | 22.83        | 43.50        | -20.67 |
| 224.97   | S       | Peak             | 35.72                     | -14.17 | 21.55        | 46.00        | -24.45 |
| 410.24   | S       | Peak             | 27.95                     | -8.78  | 19.17        | 46.00        | -26.83 |
| 585.81   | S       | Peak             | 27.73                     | -5.04  | 22.69        | 46.00        | -23.31 |
| 856.44   | S       | Peak             | 27.51                     | -1.52  | 25.99        | 46.00        | -20.01 |
| 11400.00 | H       | Average          | 22.11                     | 17.55  | 39.66        | 54.00        | -14.34 |
| 11400.00 | H       | Peak             | 34.57                     | 17.55  | 52.12        | 74.00        | -21.88 |
| 17100.00 | H       | ---              |                           |        |              |              |        |
| 22800.00 | H       | ---              |                           |        |              |              |        |
| 28500.00 | H       | ---              |                           |        |              |              |        |
| 34200.00 | H       | ---              |                           |        |              |              |        |
| 39900.00 | H       | ---              |                           |        |              |              |        |

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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5700 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH  | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 106.63   | S       | Peak             | 31.40                     | -16.64 | 14.76        | 43.50        | -28.74 |
| 286.08   | S       | Peak             | 27.84                     | -11.51 | 16.33        | 46.00        | -29.67 |
| 508.21   | S       | Peak             | 27.53                     | -7.34  | 20.19        | 46.00        | -25.81 |
| 720.64   | S       | Peak             | 29.02                     | -4.09  | 24.93        | 46.00        | -21.07 |
| 867.11   | S       | Peak             | 27.77                     | -1.49  | 26.28        | 46.00        | -19.72 |
| 940.83   | S       | Peak             | 27.59                     | 0.14   | 27.73        | 46.00        | -18.27 |
| 11400.00 | H       | Average          | 21.92                     | 17.55  | 39.47        | 54.00        | -14.53 |
| 11400.00 | H       | Peak             | 33.43                     | 17.55  | 50.98        | 74.00        | -23.02 |
| 17100.00 | H       | ---              |                           |        |              |              |        |
| 22800.00 | H       | ---              |                           |        |              |              |        |
| 28500.00 | H       | ---              |                           |        |              |              |        |
| 34200.00 | H       | ---              |                           |        |              |              |        |
| 39900.00 | H       | ---              |                           |        |              |              |        |

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|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 a      | Test Date                | :2014-11-17       |
| Fundamental Frequency | :5500 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane      | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

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

| Freq.   | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|---------|---------|----------|---------------|--------|----------|----------|--------|
|         |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz     | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 5460.00 | E       | Average  | 39.57         | 7.87   | 47.44    | 54.00    | -6.56  |
| 5460.00 | E       | Peak     | 51.29         | 7.87   | 59.16    | 74.00    | -14.84 |

|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 a      | Test Date                | :2014-11-17       |
| Fundamental Frequency | :5500 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane      | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

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

| Freq.   | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|---------|---------|----------|---------------|--------|----------|----------|--------|
|         |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz     | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 5460.00 | E       | Average  | 40.42         | 7.87   | 48.29    | 54.00    | -5.71  |
| 5460.00 | E       | Peak     | 52.65         | 7.87   | 60.52    | 74.00    | -13.48 |

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|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 a      | Test Date                | :2014-11-28       |
| Fundamental Frequency | :5500 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Wdge LOW | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane      | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

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

| Freq.   | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|---------|---------|----------|---------------|--------|----------|----------|--------|
|         |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz     | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 5470.00 | E       | Peak     | 51.94         | 7.89   | 59.83    | 68.30    | -8.47  |

|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 a      | Test Date                | :2014-11-28       |
| Fundamental Frequency | :5500 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane      | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

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

| Freq.   | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|---------|---------|----------|---------------|--------|----------|----------|--------|
|         |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz     | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 5470.00 | E       | Peak     | 51.80         | 7.89   | 59.69    | 68.30    | -8.61  |

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|                       |                 |                          |                   |
|-----------------------|-----------------|--------------------------|-------------------|
| Operation Band        | :802.11 a       | Test Date                | :2014-11-28       |
| Fundamental Frequency | :5700 MHz       | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Wdge HIGH | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane       | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

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

| Freq.   | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|---------|---------|----------|---------------|--------|----------|----------|--------|
|         |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz     | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 5725.00 | E       | Peak     | 52.46         | 8.20   | 60.66    | 68.30    | -7.64  |

|                       |                 |                          |                   |
|-----------------------|-----------------|--------------------------|-------------------|
| Operation Band        | :802.11 a       | Test Date                | :2014-11-28       |
| Fundamental Frequency | :5700 MHz       | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Wdge HIGH | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane       | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

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

| Freq.   | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|---------|---------|----------|---------------|--------|----------|----------|--------|
|         |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz     | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 5725.00 | E       | Peak     | 58.39         | 8.20   | 66.59    | 68.30    | -1.71  |

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**Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz**

|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5500 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW      | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane    | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 42.61    | S       | Peak     | 41.64         | -13.35 | 28.29    | 40.00    | -11.71 |
| 107.60   | S       | Peak     | 40.07         | -16.47 | 23.60    | 43.50    | -19.90 |
| 156.10   | S       | Peak     | 35.01         | -12.48 | 22.53    | 43.50    | -20.97 |
| 340.40   | S       | Peak     | 29.49         | -10.41 | 19.08    | 46.00    | -26.92 |
| 692.51   | S       | Peak     | 28.74         | -3.72  | 25.02    | 46.00    | -20.98 |
| 893.30   | S       | Peak     | 28.93         | -1.12  | 27.81    | 46.00    | -18.19 |
| 11000.00 | H       | Average  | 21.89         | 16.50  | 38.39    | 54.00    | -15.61 |
| 11000.00 | H       | Peak     | 34.30         | 16.50  | 50.80    | 74.00    | -23.20 |
| 16500.00 | H       | ---      |               |        |          |          |        |
| 22000.00 | H       | ---      |               |        |          |          |        |
| 27500.00 | H       | ---      |               |        |          |          |        |
| 33000.00 | H       | ---      |               |        |          |          |        |
| 38500.00 | H       | ---      |               |        |          |          |        |

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|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5500 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW      | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane    | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 43.58    | S       | Peak             | 29.19                     | -13.27 | 15.92        | 40.00        | -24.08 |
| 105.66   | S       | Peak             | 31.53                     | -16.83 | 14.70        | 43.50        | -28.80 |
| 342.34   | S       | Peak             | 29.32                     | -10.35 | 18.97        | 46.00        | -27.03 |
| 584.84   | S       | Peak             | 27.84                     | -5.04  | 22.80        | 46.00        | -23.20 |
| 677.96   | S       | Peak             | 29.05                     | -3.71  | 25.34        | 46.00        | -20.66 |
| 903.97   | S       | Peak             | 28.50                     | -0.70  | 27.80        | 46.00        | -18.20 |
| 11000.00 | H       | Average          | 22.87                     | 16.50  | 39.37        | 54.00        | -14.63 |
| 11000.00 | H       | Peak             | 34.73                     | 16.50  | 51.23        | 74.00        | -22.77 |
| 16500.00 | H       | ---              |                           |        |              |              |        |
| 22000.00 | H       | ---              |                           |        |              |              |        |
| 27500.00 | H       | ---              |                           |        |              |              |        |
| 33000.00 | H       | ---              |                           |        |              |              |        |
| 38500.00 | H       | ---              |                           |        |              |              |        |

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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5580 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX MID      | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane    | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 42.61    | S       | Peak             | 41.51                     | -13.35 | 28.16        | 40.00        | -11.84 |
| 107.60   | S       | Peak             | 40.50                     | -16.47 | 24.03        | 43.50        | -19.47 |
| 224.00   | S       | Peak             | 35.11                     | -14.20 | 20.91        | 46.00        | -25.09 |
| 449.04   | S       | Peak             | 29.54                     | -8.25  | 21.29        | 46.00        | -24.71 |
| 685.72   | S       | Peak             | 28.26                     | -3.64  | 24.62        | 46.00        | -21.38 |
| 917.55   | S       | Peak             | 27.66                     | -0.31  | 27.35        | 46.00        | -18.65 |
| 11160.00 | H       | Average          | 21.37                     | 16.87  | 38.24        | 54.00        | -15.76 |
| 11160.00 | H       | Peak             | 33.38                     | 16.87  | 50.25        | 74.00        | -23.75 |
| 16740.00 | H       | ---              |                           |        |              |              |        |
| 22320.00 | H       | ---              |                           |        |              |              |        |
| 27900.00 | H       | ---              |                           |        |              |              |        |
| 33480.00 | H       | ---              |                           |        |              |              |        |
| 39060.00 | H       | ---              |                           |        |              |              |        |

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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5580 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX MID      | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane    | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 30.00    | S       | Peak             | 32.79                     | -13.90 | 18.89        | 40.00        | -21.11 |
| 149.31   | S       | Peak             | 29.38                     | -12.73 | 16.65        | 43.50        | -26.85 |
| 286.08   | S       | Peak             | 29.51                     | -11.51 | 18.00        | 46.00        | -28.00 |
| 337.49   | S       | Peak             | 29.73                     | -10.50 | 19.23        | 46.00        | -26.77 |
| 520.82   | S       | Peak             | 29.46                     | -7.30  | 22.16        | 46.00        | -23.84 |
| 743.92   | S       | Peak             | 28.63                     | -2.77  | 25.86        | 46.00        | -20.14 |
| 11160.00 | H       | Average          | 21.52                     | 16.87  | 38.39        | 54.00        | -15.61 |
| 11160.00 | H       | Peak             | 34.68                     | 16.87  | 51.55        | 74.00        | -22.45 |
| 16740.00 | H       | ---              |                           |        |              |              |        |
| 22320.00 | H       | ---              |                           |        |              |              |        |
| 27900.00 | H       | ---              |                           |        |              |              |        |
| 33480.00 | H       | ---              |                           |        |              |              |        |
| 39060.00 | H       | ---              |                           |        |              |              |        |

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|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5700 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH     | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane    | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 33.88    | S       | Peak             | 41.57                     | -13.87 | 27.70        | 40.00        | -12.30 |
| 107.60   | S       | Peak             | 40.79                     | -16.47 | 24.32        | 43.50        | -19.18 |
| 224.97   | S       | Peak             | 36.92                     | -14.17 | 22.75        | 46.00        | -23.25 |
| 340.40   | S       | Peak             | 29.37                     | -10.41 | 18.96        | 46.00        | -27.04 |
| 604.24   | S       | Peak             | 28.58                     | -5.58  | 23.00        | 46.00        | -23.00 |
| 765.26   | S       | Peak             | 28.55                     | -2.61  | 25.94        | 46.00        | -20.06 |
| 11400.00 | H       | Average          | 21.90                     | 17.55  | 39.45        | 54.00        | -14.55 |
| 11400.00 | H       | Peak             | 34.28                     | 17.55  | 51.83        | 74.00        | -22.17 |
| 17100.00 | H       | ---              |                           |        |              |              |        |
| 22800.00 | H       | ---              |                           |        |              |              |        |
| 28500.00 | H       | ---              |                           |        |              |              |        |
| 34200.00 | H       | ---              |                           |        |              |              |        |
| 39900.00 | H       | ---              |                           |        |              |              |        |

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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5700 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH     | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane    | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 30.00    | S       | Peak             | 33.25                     | -13.90 | 19.35        | 40.00        | -20.65 |
| 106.63   | S       | Peak             | 32.60                     | -16.64 | 15.96        | 43.50        | -27.54 |
| 286.08   | S       | Peak             | 28.81                     | -11.51 | 17.30        | 46.00        | -28.70 |
| 589.69   | S       | Peak             | 28.22                     | -5.00  | 23.22        | 46.00        | -22.78 |
| 679.90   | S       | Peak             | 28.51                     | -3.65  | 24.86        | 46.00        | -21.14 |
| 879.72   | S       | Peak             | 28.10                     | -1.49  | 26.61        | 46.00        | -19.39 |
| 11400.00 | H       | Average          | 21.95                     | 17.55  | 39.50        | 54.00        | -14.50 |
| 11400.00 | H       | Peak             | 34.27                     | 17.55  | 51.82        | 74.00        | -22.18 |
| 17100.00 | H       | ---              |                           |        |              |              |        |
| 22800.00 | H       | ---              |                           |        |              |              |        |
| 28500.00 | H       | ---              |                           |        |              |              |        |
| 34200.00 | H       | ---              |                           |        |              |              |        |
| 39900.00 | H       | ---              |                           |        |              |              |        |

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|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M   | Test Date                | :2014-11-17       |
| Fundamental Frequency | :5500 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane      | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

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

| Freq.   | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|---------|---------|----------|---------------|--------|----------|----------|--------|
|         |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz     | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 5460.00 | E       | Average  | 39.60         | 7.87   | 47.47    | 54.00    | -6.53  |
| 5460.00 | E       | Peak     | 50.85         | 7.87   | 58.72    | 74.00    | -15.28 |

|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M   | Test Date                | :2014-11-17       |
| Fundamental Frequency | :5500 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane      | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

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

| Freq.   | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|---------|---------|----------|---------------|--------|----------|----------|--------|
|         |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz     | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 5460.00 | E       | Average  | 40.59         | 7.87   | 48.46    | 54.00    | -5.54  |
| 5460.00 | E       | Peak     | 52.50         | 7.87   | 60.37    | 74.00    | -13.63 |

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|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M   | Test Date                | :2014-11-28       |
| Fundamental Frequency | :5500 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Wdge LOW | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane      | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

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

| Freq.   | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|---------|---------|----------|---------------|--------|----------|----------|--------|
|         |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz     | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 5470.00 | E       | Peak     | 51.04         | 7.89   | 58.93    | 68.30    | -9.37  |

|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M   | Test Date                | :2014-11-28       |
| Fundamental Frequency | :5500 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Wdge LOW | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane      | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

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

| Freq.   | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|---------|---------|----------|---------------|--------|----------|----------|--------|
|         |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz     | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 5470.00 | E       | Peak     | 52.48         | 7.89   | 60.37    | 68.30    | -7.93  |

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|                       |                 |                          |                   |
|-----------------------|-----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M    | Test Date                | :2014-11-28       |
| Fundamental Frequency | :5700 MHz       | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Wdge HIGH | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane       | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

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

| Freq.   | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|---------|---------|----------|---------------|--------|----------|----------|--------|
|         |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz     | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 5725.00 | E       | Peak     | 56.97         | 8.20   | 65.17    | 68.30    | -3.13  |

|                       |                 |                          |                   |
|-----------------------|-----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M    | Test Date                | :2014-11-28       |
| Fundamental Frequency | :5700 MHz       | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Wdge HIGH | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane       | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

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

| Freq.   | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|---------|---------|----------|---------------|--------|----------|----------|--------|
|         |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz     | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 5725.00 | E       | Peak     | 59.01         | 8.20   | 67.21    | 68.30    | -1.09  |

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**Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz**

|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n40M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5510 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW      | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane    | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 32.91    | S       | Peak     | 49.80         | -13.88 | 35.92    | 40.00    | -4.08  |
| 99.84    | S       | Peak     | 34.50         | -17.96 | 16.54    | 43.50    | -26.96 |
| 286.08   | S       | Peak     | 29.02         | -11.51 | 17.51    | 46.00    | -28.49 |
| 446.13   | S       | Peak     | 29.02         | -8.38  | 20.64    | 46.00    | -25.36 |
| 651.77   | S       | Peak     | 27.80         | -4.66  | 23.14    | 46.00    | -22.86 |
| 921.43   | S       | Peak     | 27.16         | -0.23  | 26.93    | 46.00    | -19.07 |
| 11020.00 | H       | Average  | 22.59         | 16.52  | 39.11    | 54.00    | -14.89 |
| 11020.00 | H       | Peak     | 34.74         | 16.52  | 51.26    | 74.00    | -22.74 |
| 16530.00 | H       | ---      |               |        |          |          |        |
| 22040.00 | H       | ---      |               |        |          |          |        |
| 27550.00 | H       | ---      |               |        |          |          |        |
| 33060.00 | H       | ---      |               |        |          |          |        |
| 38570.00 | H       | ---      |               |        |          |          |        |

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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n40M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5510 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW      | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane    | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 34.85    | S       | Peak             | 33.98                     | -13.86 | 20.12        | 40.00        | -19.88 |
| 113.42   | S       | Peak             | 32.24                     | -15.66 | 16.58        | 43.50        | -26.92 |
| 286.08   | S       | Peak             | 29.43                     | -11.51 | 17.92        | 46.00        | -28.08 |
| 429.64   | S       | Peak             | 29.64                     | -8.83  | 20.81        | 46.00        | -25.19 |
| 689.60   | S       | Peak             | 27.79                     | -3.64  | 24.15        | 46.00        | -21.85 |
| 910.76   | S       | Peak             | 27.86                     | -0.46  | 27.40        | 46.00        | -18.60 |
| 11020.00 | H       | Average          | 21.99                     | 16.52  | 38.51        | 54.00        | -15.49 |
| 11020.00 | H       | Peak             | 34.37                     | 16.52  | 50.89        | 74.00        | -23.11 |
| 16530.00 | H       | ---              |                           |        |              |              |        |
| 22040.00 | H       | ---              |                           |        |              |              |        |
| 27550.00 | H       | ---              |                           |        |              |              |        |
| 33060.00 | H       | ---              |                           |        |              |              |        |
| 38570.00 | H       | ---              |                           |        |              |              |        |

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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n40M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5550 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX MID      | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane    | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 31.94    | S       | Peak             | 49.96                     | -13.88 | 36.08        | 40.00        | -3.92  |
| 99.84    | S       | Peak             | 34.30                     | -17.96 | 16.34        | 43.50        | -27.16 |
| 286.08   | S       | Peak             | 28.99                     | -11.51 | 17.48        | 46.00        | -28.52 |
| 575.14   | S       | Peak             | 27.28                     | -5.40  | 21.88        | 46.00        | -24.12 |
| 764.29   | S       | Peak             | 28.19                     | -2.59  | 25.60        | 46.00        | -20.40 |
| 920.46   | S       | Peak             | 28.06                     | -0.25  | 27.81        | 46.00        | -18.19 |
| 11100.00 | H       | Average          | 21.20                     | 16.66  | 37.86        | 54.00        | -16.14 |
| 11100.00 | H       | Peak             | 33.51                     | 16.66  | 50.17        | 74.00        | -23.83 |
| 16650.00 | H       | ---              |                           |        |              |              |        |
| 22200.00 | H       | ---              |                           |        |              |              |        |
| 27750.00 | H       | ---              |                           |        |              |              |        |
| 33300.00 | H       | ---              |                           |        |              |              |        |
| 38850.00 | H       | ---              |                           |        |              |              |        |

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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n40M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5550 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX MID      | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane    | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 35.82    | S       | Peak             | 34.73                     | -13.81 | 20.92        | 40.00        | -19.08 |
| 152.22   | S       | Peak             | 28.65                     | -12.62 | 16.03        | 43.50        | -27.47 |
| 286.08   | S       | Peak             | 28.02                     | -11.51 | 16.51        | 46.00        | -29.49 |
| 435.46   | S       | Peak             | 29.63                     | -8.72  | 20.91        | 46.00        | -25.09 |
| 671.17   | S       | Peak             | 28.46                     | -4.00  | 24.46        | 46.00        | -21.54 |
| 957.32   | S       | Peak             | 27.20                     | 0.33   | 27.53        | 46.00        | -18.47 |
| 11100.00 | H       | Average          | 21.81                     | 16.66  | 38.47        | 54.00        | -15.53 |
| 11100.00 | H       | Peak             | 33.40                     | 16.66  | 50.06        | 74.00        | -23.94 |
| 16650.00 | H       | ---              |                           |        |              |              |        |
| 22200.00 | H       | ---              |                           |        |              |              |        |
| 27750.00 | H       | ---              |                           |        |              |              |        |
| 33300.00 | H       | ---              |                           |        |              |              |        |
| 38850.00 | H       | ---              |                           |        |              |              |        |

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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n40M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5670 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH     | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane    | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 31.94    | S       | Peak             | 50.26                     | -13.88 | 36.38        | 40.00        | -3.62  |
| 99.84    | S       | Peak             | 34.70                     | -17.96 | 16.74        | 43.50        | -26.76 |
| 438.37   | S       | Peak             | 29.63                     | -8.67  | 20.96        | 46.00        | -25.04 |
| 684.75   | S       | Peak             | 28.39                     | -3.63  | 24.76        | 46.00        | -21.24 |
| 773.99   | S       | Peak             | 28.32                     | -2.66  | 25.66        | 46.00        | -20.34 |
| 907.85   | S       | Peak             | 28.75                     | -0.55  | 28.20        | 46.00        | -17.80 |
| 11340.00 | H       | Average          | 21.57                     | 17.33  | 38.90        | 54.00        | -15.10 |
| 11340.00 | H       | Peak             | 33.47                     | 17.33  | 50.80        | 74.00        | -23.20 |
| 17010.00 | H       | ---              |                           |        |              |              |        |
| 22680.00 | H       | ---              |                           |        |              |              |        |
| 28350.00 | H       | ---              |                           |        |              |              |        |
| 34020.00 | H       | ---              |                           |        |              |              |        |
| 39690.00 | H       | ---              |                           |        |              |              |        |

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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n40M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5670 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH     | Engineer                 | :Curry            |
| EUT Pol.              | :E1 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.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 35.82    | S       | Peak             | 35.83                     | -13.81 | 22.02        | 40.00        | -17.98 |
| 138.64   | S       | Peak             | 29.33                     | -13.29 | 16.04        | 43.50        | -27.46 |
| 286.08   | S       | Peak             | 28.80                     | -11.51 | 17.29        | 46.00        | -28.71 |
| 444.19   | S       | Peak             | 27.76                     | -8.45  | 19.31        | 46.00        | -26.69 |
| 570.29   | S       | Peak             | 28.44                     | -5.71  | 22.73        | 46.00        | -23.27 |
| 948.59   | S       | Peak             | 27.34                     | 0.25   | 27.59        | 46.00        | -18.41 |
| 11340.00 | H       | Average          | 21.75                     | 17.33  | 39.08        | 54.00        | -14.92 |
| 11340.00 | H       | Peak             | 33.02                     | 17.33  | 50.35        | 74.00        | -23.65 |
| 17010.00 | H       | ---              |                           |        |              |              |        |
| 22680.00 | H       | ---              |                           |        |              |              |        |
| 28350.00 | H       | ---              |                           |        |              |              |        |
| 34020.00 | H       | ---              |                           |        |              |              |        |
| 39690.00 | H       | ---              |                           |        |              |              |        |

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|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n40M   | Test Date                | :2014-11-17       |
| Fundamental Frequency | :5510 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane      | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

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

| Freq.   | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|---------|---------|----------|---------------|--------|----------|----------|--------|
|         |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz     | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 5460.00 | E       | Average  | 34.28         | 7.87   | 42.15    | 54.00    | -11.85 |
| 5460.00 | E       | Peak     | 49.10         | 7.87   | 56.97    | 74.00    | -17.03 |

|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n40M   | Test Date                | :2014-11-17       |
| Fundamental Frequency | :5510 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane      | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

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

| Freq.   | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|---------|---------|----------|---------------|--------|----------|----------|--------|
|         |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz     | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 5460.00 | E       | Average  | 38.47         | 7.87   | 46.34    | 54.00    | -7.66  |
| 5460.00 | E       | Peak     | 53.92         | 7.87   | 61.79    | 74.00    | -12.21 |

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|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n40M P | Test Date                | :2014-11-28       |
| Fundamental Frequency | :5510 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane      | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

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

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5470.00 | E       | Peak             | 54.73                     | 7.89   | 62.62        | 68.30        | -5.68  |

|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n40M   | Test Date                | :2014-11-28       |
| Fundamental Frequency | :5510 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane      | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

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

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5470.00 | E       | Peak             | 59.36                     | 7.89   | 67.25        | 68.30        | -1.05  |

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|                       |                 |                          |                   |
|-----------------------|-----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n40M    | Test Date                | :2014-11-28       |
| Fundamental Frequency | :5670 MHz       | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge HIGH | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane       | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

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

| Freq.   | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|---------|---------|----------|---------------|--------|----------|----------|--------|
|         |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz     | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 5725.00 | E       | Peak     | 51.25         | 8.20   | 59.45    | 68.30    | -8.85  |

|                       |                 |                          |                   |
|-----------------------|-----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n40M    | Test Date                | :2014-11-28       |
| Fundamental Frequency | :5670 MHz       | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge HIGH | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane       | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

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

| Freq.   | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|---------|---------|----------|---------------|--------|----------|----------|--------|
|         |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz     | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 5725.00 | E       | Peak     | 53.15         | 8.20   | 61.35    | 68.30    | -6.95  |

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

|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5745 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW   | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 43.58    | S       | Peak             | 42.62                     | -13.27 | 29.35        | 40.00        | -10.65 |
| 87.23    | S       | Peak             | 43.09                     | -18.50 | 24.59        | 40.00        | -15.41 |
| 224.97   | S       | Peak             | 35.27                     | -14.17 | 21.10        | 46.00        | -24.90 |
| 395.69   | S       | Peak             | 27.05                     | -9.17  | 17.88        | 46.00        | -28.12 |
| 579.99   | S       | Peak             | 28.09                     | -5.10  | 22.99        | 46.00        | -23.01 |
| 809.88   | S       | Peak             | 27.40                     | -2.03  | 25.37        | 46.00        | -20.63 |
| 11490.00 | H       | Average          | 22.11                     | 17.88  | 39.99        | 54.00        | -14.01 |
| 11490.00 | H       | Peak             | 34.52                     | 17.88  | 52.40        | 74.00        | -21.60 |
| 17235.00 | H       | ---              |                           |        |              |              |        |
| 22980.00 | H       | ---              |                           |        |              |              |        |
| 28725.00 | H       | ---              |                           |        |              |              |        |
| 34470.00 | H       | ---              |                           |        |              |              |        |

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|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5745 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW   | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 112.45   | S       | Peak             | 30.39                     | -15.76 | 14.63        | 43.50        | -28.87 |
| 286.08   | S       | Peak             | 29.31                     | -11.51 | 17.80        | 46.00        | -28.20 |
| 451.95   | S       | Peak             | 27.27                     | -8.17  | 19.10        | 46.00        | -26.90 |
| 644.98   | S       | Peak             | 28.23                     | -4.91  | 23.32        | 46.00        | -22.68 |
| 778.84   | S       | Peak             | 28.25                     | -2.66  | 25.59        | 46.00        | -20.41 |
| 913.67   | S       | Peak             | 27.81                     | -0.39  | 27.42        | 46.00        | -18.58 |
| 11490.00 | H       | Average          | 22.35                     | 17.88  | 40.23        | 54.00        | -13.77 |
| 11490.00 | H       | Peak             | 35.55                     | 17.88  | 53.43        | 74.00        | -20.57 |
| 17235.00 | H       | ---              |                           |        |              |              |        |
| 22980.00 | H       | ---              |                           |        |              |              |        |
| 28725.00 | H       | ---              |                           |        |              |              |        |
| 34470.00 | H       | ---              |                           |        |              |              |        |

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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5785 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX MID   | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 43.58    | S       | Peak             | 42.79                     | -13.27 | 29.52        | 40.00        | -10.48 |
| 224.00   | S       | Peak             | 34.89                     | -14.20 | 20.69        | 46.00        | -25.31 |
| 358.83   | S       | Peak             | 27.73                     | -9.94  | 17.79        | 46.00        | -28.21 |
| 584.84   | S       | Peak             | 28.29                     | -5.04  | 23.25        | 46.00        | -22.75 |
| 742.95   | S       | Peak             | 27.43                     | -2.82  | 24.61        | 46.00        | -21.39 |
| 906.88   | S       | Peak             | 26.63                     | -0.59  | 26.04        | 46.00        | -19.96 |
| 11570.00 | H       | Average          | 21.99                     | 17.74  | 39.73        | 54.00        | -14.27 |
| 11570.00 | H       | Peak             | 34.75                     | 17.74  | 52.49        | 74.00        | -21.51 |
| 17355.00 | H       | ---              |                           |        |              |              |        |
| 23140.00 | H       | ---              |                           |        |              |              |        |
| 28925.00 | H       | ---              |                           |        |              |              |        |
| 34710.00 | H       | ---              |                           |        |              |              |        |

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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5785 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX MID   | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 43.58    | S       | Peak             | 30.63                     | -13.27 | 17.36        | 40.00        | -22.64 |
| 142.52   | S       | Peak             | 29.28                     | -13.05 | 16.23        | 43.50        | -27.27 |
| 286.08   | S       | Peak             | 29.39                     | -11.51 | 17.88        | 46.00        | -28.12 |
| 462.62   | S       | Peak             | 27.95                     | -7.86  | 20.09        | 46.00        | -25.91 |
| 625.58   | S       | Peak             | 28.74                     | -5.78  | 22.96        | 46.00        | -23.04 |
| 857.41   | S       | Peak             | 27.75                     | -1.50  | 26.25        | 46.00        | -19.75 |
| 11570.00 | H       | Average          | 22.04                     | 17.74  | 39.78        | 54.00        | -14.22 |
| 11570.00 | H       | Peak             | 35.44                     | 17.74  | 53.18        | 74.00        | -20.82 |
| 17355.00 | H       | ---              |                           |        |              |              |        |
| 23140.00 | H       | ---              |                           |        |              |              |        |
| 28925.00 | H       | ---              |                           |        |              |              |        |
| 34710.00 | H       | ---              |                           |        |              |              |        |

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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5825 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH  | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 43.58    | S       | Peak             | 42.72                     | -13.27 | 29.45        | 40.00        | -10.55 |
| 108.57   | S       | Peak             | 39.58                     | -16.28 | 23.30        | 43.50        | -20.20 |
| 349.13   | S       | Peak             | 27.33                     | -10.15 | 17.18        | 46.00        | -28.82 |
| 583.87   | S       | Peak             | 28.31                     | -5.05  | 23.26        | 46.00        | -22.74 |
| 788.54   | S       | Peak             | 28.53                     | -2.42  | 26.11        | 46.00        | -19.89 |
| 906.88   | S       | Peak             | 28.15                     | -0.59  | 27.56        | 46.00        | -18.44 |
| 11650.00 | H       | Average          | 21.75                     | 17.94  | 39.69        | 54.00        | -14.31 |
| 11650.00 | H       | Peak             | 34.73                     | 17.94  | 52.67        | 74.00        | -21.33 |
| 17475.00 | H       | ---              |                           |        |              |              |        |
| 23300.00 | H       | ---              |                           |        |              |              |        |
| 29125.00 | H       | ---              |                           |        |              |              |        |
| 34950.00 | H       | ---              |                           |        |              |              |        |

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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5825 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH  | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 107.60   | S       | Peak             | 31.39                     | -16.47 | 14.92        | 43.50        | -28.58 |
| 286.08   | S       | Peak             | 28.36                     | -11.51 | 16.85        | 46.00        | -29.15 |
| 432.55   | S       | Peak             | 27.68                     | -8.79  | 18.89        | 46.00        | -27.11 |
| 593.57   | S       | Peak             | 28.43                     | -5.13  | 23.30        | 46.00        | -22.70 |
| 753.62   | S       | Peak             | 27.54                     | -2.49  | 25.05        | 46.00        | -20.95 |
| 946.65   | S       | Peak             | 28.18                     | 0.23   | 28.41        | 46.00        | -17.59 |
| 11650.00 | H       | Average          | 21.86                     | 17.94  | 39.80        | 54.00        | -14.20 |
| 11650.00 | H       | Peak             | 34.35                     | 17.94  | 52.29        | 74.00        | -21.71 |
| 17475.00 | H       | ---              |                           |        |              |              |        |
| 23300.00 | H       | ---              |                           |        |              |              |        |
| 29125.00 | H       | ---              |                           |        |              |              |        |
| 34950.00 | H       | ---              |                           |        |              |              |        |

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**Radiated Emission:**

|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 a      | Test Date                | :2014-11-17       |
| Fundamental Frequency | :5745 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane      | 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.

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

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5725.00 | E       | Peak             | 65.23                     | 8.20   | 73.43        | 78.20        | -4.77  |

|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 a      | Test Date                | :2014-11-17       |
| Fundamental Frequency | :5745 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane      | 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.

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

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5725.00 | E       | Peak             | 69.16                     | 8.20   | 77.36        | 78.20        | -0.84  |

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|-----------------------|-----------------|--------------------------|-------------------|
| Operation Band        | :802.11 a       | Test Date                | :2014-11-17       |
| Fundamental Frequency | :5825 MHz       | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge HIGH | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane       | 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.

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

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5850.00 | E       | Peak             | 56.99                     | 8.42   | 65.41        | 78.20        | -12.79 |

|                       |                 |                          |                   |
|-----------------------|-----------------|--------------------------|-------------------|
| Operation Band        | :802.11 a       | Test Date                | :2014-11-17       |
| Fundamental Frequency | :5825 MHz       | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge HIGH | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane       | 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.

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

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5850.00 | E       | Peak             | 63.04                     | 8.42   | 71.46        | 78.20        | -6.74  |

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**Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz**

|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5745 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW      | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane    | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 35.82    | S       | Peak             | 41.63                     | -13.81 | 27.82        | 40.00        | -12.18 |
| 107.60   | S       | Peak             | 40.67                     | -16.47 | 24.20        | 43.50        | -19.30 |
| 223.03   | S       | Peak             | 35.31                     | -14.24 | 21.07        | 46.00        | -24.93 |
| 447.10   | S       | Peak             | 29.28                     | -8.34  | 20.94        | 46.00        | -25.06 |
| 696.39   | S       | Peak             | 28.63                     | -3.86  | 24.77        | 46.00        | -21.23 |
| 909.79   | S       | Peak             | 28.34                     | -0.48  | 27.86        | 46.00        | -18.14 |
| 11490.00 | H       | Average          | 22.03                     | 17.88  | 39.91        | 54.00        | -14.09 |
| 11490.00 | H       | Peak             | 34.84                     | 17.88  | 52.72        | 74.00        | -21.28 |
| 17235.00 | H       | ---              |                           |        |              |              |        |
| 22980.00 | H       | ---              |                           |        |              |              |        |
| 28725.00 | H       | ---              |                           |        |              |              |        |
| 34470.00 | H       | ---              |                           |        |              |              |        |

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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5745 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW      | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane    | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 30.00    | S       | Peak             | 32.66                     | -13.90 | 18.76        | 40.00        | -21.24 |
| 107.60   | S       | Peak             | 31.83                     | -16.47 | 15.36        | 43.50        | -28.14 |
| 346.22   | S       | Peak             | 29.32                     | -10.23 | 19.09        | 46.00        | -26.91 |
| 595.51   | S       | Peak             | 28.90                     | -5.21  | 23.69        | 46.00        | -22.31 |
| 752.65   | S       | Peak             | 29.16                     | -2.49  | 26.67        | 46.00        | -19.33 |
| 954.41   | S       | Peak             | 28.12                     | 0.31   | 28.43        | 46.00        | -17.57 |
| 11490.00 | H       | Average          | 22.22                     | 17.88  | 40.10        | 54.00        | -13.90 |
| 11490.00 | H       | Peak             | 34.67                     | 17.88  | 52.55        | 74.00        | -21.45 |
| 17235.00 | H       | ---              |                           |        |              |              |        |
| 22980.00 | H       | ---              |                           |        |              |              |        |
| 28725.00 | H       | ---              |                           |        |              |              |        |
| 34470.00 | H       | ---              |                           |        |              |              |        |

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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5785 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX MID      | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane    | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 42.61    | S       | Peak             | 41.22                     | -13.35 | 27.87        | 40.00        | -12.13 |
| 88.20    | S       | Peak             | 43.28                     | -18.68 | 24.60        | 43.50        | -18.90 |
| 160.95   | S       | Peak             | 34.65                     | -12.39 | 22.26        | 43.50        | -21.24 |
| 427.70   | S       | Peak             | 29.43                     | -8.83  | 20.60        | 46.00        | -25.40 |
| 585.81   | S       | Peak             | 28.84                     | -5.04  | 23.80        | 46.00        | -22.20 |
| 768.17   | S       | Peak             | 28.96                     | -2.65  | 26.31        | 46.00        | -19.69 |
| 11570.00 | H       | Average          | 21.84                     | 17.74  | 39.58        | 54.00        | -14.42 |
| 11570.00 | H       | Peak             | 35.09                     | 17.74  | 52.83        | 74.00        | -21.17 |
| 17355.00 | H       | ---              |                           |        |              |              |        |
| 23140.00 | H       | ---              |                           |        |              |              |        |
| 28925.00 | H       | ---              |                           |        |              |              |        |
| 34710.00 | H       | ---              |                           |        |              |              |        |

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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5785 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX MID      | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane    | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 107.60   | S       | Peak             | 30.69                     | -16.47 | 14.22        | 43.50        | -29.28 |
| 339.43   | S       | Peak             | 29.34                     | -10.44 | 18.90        | 46.00        | -27.10 |
| 500.45   | S       | Peak             | 29.20                     | -7.42  | 21.78        | 46.00        | -24.22 |
| 590.66   | S       | Peak             | 28.08                     | -5.02  | 23.06        | 46.00        | -22.94 |
| 742.95   | S       | Peak             | 28.68                     | -2.82  | 25.86        | 46.00        | -20.14 |
| 864.20   | S       | Peak             | 28.21                     | -1.46  | 26.75        | 46.00        | -19.25 |
| 11570.00 | H       | Average          | 21.94                     | 17.74  | 39.68        | 54.00        | -14.32 |
| 11570.00 | H       | Peak             | 35.04                     | 17.74  | 52.78        | 74.00        | -21.22 |
| 17355.00 | H       | ---              |                           |        |              |              |        |
| 23140.00 | H       | ---              |                           |        |              |              |        |
| 28925.00 | H       | ---              |                           |        |              |              |        |
| 34710.00 | H       | ---              |                           |        |              |              |        |

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|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5825 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH     | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane    | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 42.61    | S       | Peak             | 40.98                     | -13.35 | 27.63        | 40.00        | -12.37 |
| 108.57   | S       | Peak             | 40.10                     | -16.28 | 23.82        | 43.50        | -19.68 |
| 158.04   | S       | Peak             | 35.23                     | -12.40 | 22.83        | 43.50        | -20.67 |
| 223.03   | S       | Peak             | 35.39                     | -14.24 | 21.15        | 46.00        | -24.85 |
| 589.69   | S       | Peak             | 28.89                     | -5.00  | 23.89        | 46.00        | -22.11 |
| 836.07   | S       | Peak             | 29.28                     | -2.02  | 27.26        | 46.00        | -18.74 |
| 11650.00 | H       | Average          | 21.55                     | 17.94  | 39.49        | 54.00        | -14.51 |
| 11650.00 | H       | Peak             | 33.79                     | 17.94  | 51.73        | 74.00        | -22.27 |
| 17475.00 | H       | ---              |                           |        |              |              |        |
| 23300.00 | H       | ---              |                           |        |              |              |        |
| 29125.00 | H       | ---              |                           |        |              |              |        |
| 34950.00 | H       | ---              |                           |        |              |              |        |

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|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5825 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH     | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane    | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 106.63   | S       | Peak             | 32.69                     | -16.64 | 16.05        | 43.50        | -27.45 |
| 286.08   | S       | Peak             | 28.42                     | -11.51 | 16.91        | 46.00        | -29.09 |
| 514.03   | S       | Peak             | 29.54                     | -7.31  | 22.23        | 46.00        | -23.77 |
| 592.60   | S       | Peak             | 28.22                     | -5.10  | 23.12        | 46.00        | -22.88 |
| 716.76   | S       | Peak             | 29.64                     | -4.15  | 25.49        | 46.00        | -20.51 |
| 856.44   | S       | Peak             | 27.79                     | -1.52  | 26.27        | 46.00        | -19.73 |
| 11650.00 | H       | Average          | 21.64                     | 17.94  | 39.58        | 54.00        | -14.42 |
| 11650.00 | H       | Peak             | 34.30                     | 17.94  | 52.24        | 74.00        | -21.76 |
| 17475.00 | H       | ---              |                           |        |              |              |        |
| 23300.00 | H       | ---              |                           |        |              |              |        |
| 29125.00 | H       | ---              |                           |        |              |              |        |
| 34950.00 | H       | ---              |                           |        |              |              |        |

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## Radiated Emission:

|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M   | Test Date                | :2014-11-17       |
| Fundamental Frequency | :5745 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane      | 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.

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

| Freq.   | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|---------|---------|----------|---------------|--------|----------|----------|--------|
|         |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz     | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 5725.00 | E       | Peak     | 59.66         | 8.20   | 67.86    | 78.20    | -10.34 |

|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M   | Test Date                | :2014-11-17       |
| Fundamental Frequency | :5745 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane      | 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.

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

| Freq.   | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|---------|---------|----------|---------------|--------|----------|----------|--------|
|         |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz     | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 5725.00 | E       | Peak     | 64.82         | 8.20   | 73.02    | 78.20    | -5.18  |

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|                       |                 |                          |                   |
|-----------------------|-----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M    | Test Date                | :2014-11-17       |
| Fundamental Frequency | :5825 MHz       | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge HIGH | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane       | 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.

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

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5850.00 | E       | Peak             | 56.08                     | 8.42   | 64.50        | 78.20        | -13.70 |

|                       |                 |                          |                   |
|-----------------------|-----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M    | Test Date                | :2014-11-17       |
| Fundamental Frequency | :5825 MHz       | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge HIGH | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane       | 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.

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

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5850.00 | E       | Peak             | 61.25                     | 8.42   | 69.67        | 78.20        | -8.53  |

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**Radiated Spurious Emission Measurement Result (802.11n (5GHz)\_40M)**

|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n40M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5755 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW      | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane    | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 31.94    | S       | Peak     | 49.24         | -13.88 | 35.36    | 40.00    | -4.64  |
| 99.84    | S       | Peak     | 33.21         | -17.96 | 15.25    | 43.50    | -28.25 |
| 286.08   | S       | Peak     | 28.23         | -11.51 | 16.72    | 46.00    | -29.28 |
| 555.74   | S       | Peak     | 27.95         | -6.79  | 21.16    | 46.00    | -24.84 |
| 759.44   | S       | Peak     | 27.29         | -2.52  | 24.77    | 46.00    | -21.23 |
| 949.56   | S       | Peak     | 26.99         | 0.27   | 27.26    | 46.00    | -18.74 |
| 11510.00 | H       | Average  | 21.95         | 17.88  | 39.83    | 54.00    | -14.17 |
| 11510.00 | H       | Peak     | 35.18         | 17.88  | 53.06    | 74.00    | -20.94 |
| 17265.00 | H       | ---      |               |        |          |          |        |
| 23020.00 | H       | ---      |               |        |          |          |        |
| 28775.00 | H       | ---      |               |        |          |          |        |
| 34530.00 | H       | ---      |               |        |          |          |        |

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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n40M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5755 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW      | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane    | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 35.82    | S       | Peak             | 32.78                     | -13.81 | 18.97        | 40.00        | -21.03 |
| 139.61   | S       | Peak             | 27.51                     | -13.20 | 14.31        | 43.50        | -29.19 |
| 286.08   | S       | Peak             | 28.18                     | -11.51 | 16.67        | 46.00        | -29.33 |
| 436.43   | S       | Peak             | 27.68                     | -8.71  | 18.97        | 46.00        | -27.03 |
| 652.74   | S       | Peak             | 28.82                     | -4.62  | 24.20        | 46.00        | -21.80 |
| 921.43   | S       | Peak             | 27.60                     | -0.23  | 27.37        | 46.00        | -18.63 |
| 11510.00 | H       | Average          | 22.02                     | 17.88  | 39.90        | 54.00        | -14.10 |
| 11510.00 | H       | Peak             | 34.81                     | 17.88  | 52.69        | 74.00        | -21.31 |
| 17265.00 | H       | ---              |                           |        |              |              |        |
| 23020.00 | H       | ---              |                           |        |              |              |        |
| 28775.00 | H       | ---              |                           |        |              |              |        |
| 34530.00 | H       | ---              |                           |        |              |              |        |

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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n40M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5795 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH     | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane    | Measurement Antenna Pol. | :VERTICAL         |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 31.94    | S       | Peak             | 48.91                     | -13.88 | 35.03        | 40.00        | -4.97  |
| 99.84    | S       | Peak             | 34.45                     | -17.96 | 16.49        | 43.50        | -27.01 |
| 286.08   | S       | Peak             | 27.40                     | -11.51 | 15.89        | 46.00        | -30.11 |
| 558.65   | S       | Peak             | 27.50                     | -6.60  | 20.90        | 46.00        | -25.10 |
| 768.17   | S       | Peak             | 28.19                     | -2.65  | 25.54        | 46.00        | -20.46 |
| 943.74   | S       | Peak             | 27.09                     | 0.19   | 27.28        | 46.00        | -18.72 |
| 11590.00 | H       | Average          | 21.79                     | 17.82  | 39.61        | 54.00        | -14.39 |
| 11590.00 | H       | Peak             | 34.56                     | 17.82  | 52.38        | 74.00        | -21.62 |
| 17385.00 | H       | ---              |                           |        |              |              |        |
| 23180.00 | H       | ---              |                           |        |              |              |        |
| 28975.00 | H       | ---              |                           |        |              |              |        |
| 34770.00 | H       | ---              |                           |        |              |              |        |

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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n40M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5795 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH     | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane    | Measurement Antenna Pol. | :HORIZONTAL       |

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

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq.    | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz      | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 42.61    | S       | Peak             | 32.72                     | -13.35 | 19.37        | 40.00        | -20.63 |
| 157.07   | S       | Peak             | 28.16                     | -12.44 | 15.72        | 43.50        | -27.78 |
| 286.08   | S       | Peak             | 28.82                     | -11.51 | 17.31        | 46.00        | -28.69 |
| 448.07   | S       | Peak             | 29.32                     | -8.30  | 21.02        | 46.00        | -24.98 |
| 743.92   | S       | Peak             | 27.39                     | -2.77  | 24.62        | 46.00        | -21.38 |
| 955.38   | S       | Peak             | 26.99                     | 0.32   | 27.31        | 46.00        | -18.69 |
| 11590.00 | H       | Average          | 21.98                     | 17.82  | 39.80        | 54.00        | -14.20 |
| 11590.00 | H       | Peak             | 33.92                     | 17.82  | 51.74        | 74.00        | -22.26 |
| 17385.00 | H       | ---              |                           |        |              |              |        |
| 23180.00 | H       | ---              |                           |        |              |              |        |
| 28975.00 | H       | ---              |                           |        |              |              |        |
| 34770.00 | H       | ---              |                           |        |              |              |        |

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**Radiated Emission:**

|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n40M   | Test Date                | :2014-11-17       |
| Fundamental Frequency | :5755 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane      | 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.

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

| Freq.   | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|---------|---------|----------|---------------|--------|----------|----------|--------|
|         |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz     | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 5719.00 | E       | Peak     | 64.62         | 8.19   | 72.81    | 78.20    | -5.39  |
| 5725.00 | E       | Peak     | 63.13         | 8.20   | 71.33    | 78.20    | -6.87  |

|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n40M   | Test Date                | :2014-11-17       |
| Fundamental Frequency | :5755 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane      | 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.

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

| Freq.   | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|---------|---------|----------|---------------|--------|----------|----------|--------|
|         |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz     | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 5718.90 | E       | Peak     | 67.29         | 8.19   | 75.48    | 78.20    | -2.72  |
| 5725.00 | E       | Peak     | 65.99         | 8.20   | 74.19    | 78.20    | -4.01  |

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|                       |                 |                          |                   |
|-----------------------|-----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n40M    | Test Date                | :2014-11-17       |
| Fundamental Frequency | :5795 MHz       | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge HIGH | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane       | 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.

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

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5850.00 | E       | Peak             | 53.39                     | 8.42   | 61.81        | 78.20        | -16.39 |

|                       |                 |                          |                   |
|-----------------------|-----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n40M    | Test Date                | :2014-11-17       |
| Fundamental Frequency | :5795 MHz       | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge HIGH | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane       | 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.

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

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5850.00 | E       | Peak             | 57.32                     | 8.42   | 65.74        | 78.20        | -12.46 |

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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:

No non-compliance noted:

Refer to the theory of operation.

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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 | 2014.11.13 |
| Temperature    | :25      | Test By   | Cooper     |
| Humidity       | :62 %    |           |            |

| Test Temp. | Test Voltage | Channel | Measured Frequency (MHz) | Spectrum Frequency (MHz) | ΔFrequency (MHz) |
|------------|--------------|---------|--------------------------|--------------------------|------------------|
| 25         | 3.8V         | 36      | 5180.0000                | 5,180.001680             | -0.0017          |
|            |              | 44      | 5220.0000                | 5,220.001920             | -0.0019          |
|            |              | 48      | 5240.0000                | 5,240.001800             | -0.0018          |
|            |              | 52      | 5260.0000                | 5,260.001880             | -0.0019          |
|            |              | 60      | 5300.0000                | 5,300.001920             | -0.0019          |
|            |              | 64      | 5320.0000                | 5,320.001950             | -0.0019          |
|            |              | 100     | 5500.0000                | 5,500.002000             | -0.0020          |
|            |              | 116     | 5580.0000                | 5,580.002000             | -0.0020          |
|            |              | 140     | 5700.0000                | 5,700.002120             | -0.0021          |
| -20        | 3.4V         | 36      | 5180.0000                | 5,180.002030             | -0.0020          |
|            |              | 44      | 5220.0000                | 5,220.002110             | -0.0021          |
|            |              | 48      | 5240.0000                | 5,240.001940             | -0.0019          |
|            |              | 52      | 5260.0000                | 5,260.001960             | -0.0020          |
|            |              | 60      | 5300.0000                | 5,300.002020             | -0.0020          |
|            |              | 64      | 5320.0000                | 5,320.002020             | -0.0020          |
|            |              | 100     | 5500.0000                | 5,500.002110             | -0.0021          |
|            |              | 116     | 5580.0000                | 5,580.002100             | -0.0021          |
|            |              | 140     | 5700.0000                | 5,700.002030             | -0.0020          |
| -20        | 4.35V        | 36      | 5180.0000                | 5,180.002050             | -0.0021          |
|            |              | 44      | 5220.0000                | 5,220.002100             | -0.0021          |
|            |              | 48      | 5240.0000                | 5,240.001990             | -0.0020          |
|            |              | 52      | 5260.0000                | 5,260.001970             | -0.0020          |
|            |              | 60      | 5300.0000                | 5,300.002100             | -0.0021          |
|            |              | 64      | 5320.0000                | 5,320.002060             | -0.0021          |
|            |              | 100     | 5500.0000                | 5,500.002040             | -0.0020          |
|            |              | 116     | 5580.0000                | 5,580.002130             | -0.0021          |
|            |              | 140     | 5700.0000                | 5,700.002070             | -0.0021          |

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|----|-------|-----|-----------|--------------|---------|
| 60 | 3.4V  | 36  | 5180.0000 | 5,180.001240 | -0.0012 |
|    |       | 44  | 5220.0000 | 5,220.001610 | -0.0016 |
|    |       | 48  | 5240.0000 | 5,240.001400 | -0.0014 |
|    |       | 52  | 5260.0000 | 5,260.001330 | -0.0013 |
|    |       | 60  | 5300.0000 | 5,300.001270 | -0.0013 |
|    |       | 64  | 5320.0000 | 5,320.001160 | -0.0012 |
|    |       | 100 | 5500.0000 | 5,500.001580 | -0.0016 |
|    |       | 116 | 5580.0000 | 5,580.001610 | -0.0016 |
|    |       | 140 | 5700.0000 | 5,700.001730 | -0.0017 |
| 60 | 4.35V | 36  | 5180.0000 | 5,180.001200 | -0.0012 |
|    |       | 44  | 5220.0000 | 5,220.001610 | -0.0016 |
|    |       | 48  | 5240.0000 | 5,240.001330 | -0.0013 |
|    |       | 52  | 5260.0000 | 5,260.001330 | -0.0013 |
|    |       | 60  | 5300.0000 | 5,300.001250 | -0.0013 |
|    |       | 64  | 5320.0000 | 5,320.001090 | -0.0011 |
|    |       | 100 | 5500.0000 | 5,500.001510 | -0.0015 |
|    |       | 116 | 5580.0000 | 5,580.001540 | -0.0015 |
|    |       | 140 | 5700.0000 | 5,700.001700 | -0.0017 |

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|                |              |           |            |
|----------------|--------------|-----------|------------|
| Operation Mode | 802.11n_HT20 | Test Date | 2014.11.13 |
| Temperature    | :25          | Test By   | Cooper     |
| Humidity       | :62 %        |           |            |

| Test Temp. | Test Voltage | Channel | Measured Frequency (MHz) | Spectrum Frequency (MHz) | ΔFrequency (MHz) |
|------------|--------------|---------|--------------------------|--------------------------|------------------|
| 25         | 3.8V         | 36      | 5180.0000                | 5,180.001670             | -0.0017          |
|            |              | 44      | 5220.0000                | 5,220.001820             | -0.0018          |
|            |              | 48      | 5240.0000                | 5,240.001870             | -0.0019          |
|            |              | 52      | 5260.0000                | 5,260.002030             | -0.0020          |
|            |              | 60      | 5300.0000                | 5,300.001930             | -0.0019          |
|            |              | 64      | 5320.0000                | 5,320.002020             | -0.0020          |
|            |              | 100     | 5500.0000                | 5,500.002120             | -0.0021          |
|            |              | 116     | 5580.0000                | 5,580.002120             | -0.0021          |
|            |              | 140     | 5700.0000                | 5,700.002200             | -0.0022          |
| -20        | 3.4V         | 36      | 5180.0000                | 5,180.001940             | -0.0019          |
|            |              | 44      | 5220.0000                | 5,220.002030             | -0.0020          |
|            |              | 48      | 5240.0000                | 5,240.002060             | -0.0021          |
|            |              | 52      | 5260.0000                | 5,260.002110             | -0.0021          |
|            |              | 60      | 5300.0000                | 5,300.002000             | -0.0020          |
|            |              | 64      | 5320.0000                | 5,320.002220             | -0.0022          |
|            |              | 100     | 5500.0000                | 5,500.002170             | -0.0022          |
|            |              | 116     | 5580.0000                | 5,580.002160             | -0.0022          |
|            |              | 140     | 5700.0000                | 5,700.002290             | -0.0023          |
| -20        | 4.35V        | 36      | 5180.0000                | 5,180.001960             | -0.0020          |
|            |              | 44      | 5220.0000                | 5,220.002000             | -0.0020          |
|            |              | 48      | 5240.0000                | 5,240.002050             | -0.0021          |
|            |              | 52      | 5260.0000                | 5,260.002100             | -0.0021          |
|            |              | 60      | 5300.0000                | 5,300.002000             | -0.0020          |
|            |              | 64      | 5320.0000                | 5,320.002200             | -0.0022          |
|            |              | 100     | 5500.0000                | 5,500.002110             | -0.0021          |
|            |              | 116     | 5580.0000                | 5,580.002090             | -0.0021          |
|            |              | 140     | 5700.0000                | 5,700.002200             | -0.0022          |

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|----|-------|-----|-----------|--------------|---------|
| 60 | 3.4V  | 36  | 5180.0000 | 5,180.001410 | -0.0014 |
|    |       | 44  | 5220.0000 | 5,220.001660 | -0.0017 |
|    |       | 48  | 5240.0000 | 5,240.001510 | -0.0015 |
|    |       | 52  | 5260.0000 | 5,260.001710 | -0.0017 |
|    |       | 60  | 5300.0000 | 5,300.001650 | -0.0017 |
|    |       | 64  | 5320.0000 | 5,320.001730 | -0.0017 |
|    |       | 100 | 5500.0000 | 5,500.001770 | -0.0018 |
|    |       | 116 | 5580.0000 | 5,580.001800 | -0.0018 |
|    |       | 140 | 5700.0000 | 5,700.001830 | -0.0018 |
| 60 | 4.35V | 36  | 5180.0000 | 5,180.001400 | -0.0014 |
|    |       | 44  | 5220.0000 | 5,220.001670 | -0.0017 |
|    |       | 48  | 5240.0000 | 5,240.001500 | -0.0015 |
|    |       | 52  | 5260.0000 | 5,260.001680 | -0.0017 |
|    |       | 60  | 5300.0000 | 5,300.001620 | -0.0016 |
|    |       | 64  | 5320.0000 | 5,320.001700 | -0.0017 |
|    |       | 100 | 5500.0000 | 5,500.001710 | -0.0017 |
|    |       | 116 | 5580.0000 | 5,580.001750 | -0.0018 |
|    |       | 140 | 5700.0000 | 5,700.001800 | -0.0018 |

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|                |               |           |           |
|----------------|---------------|-----------|-----------|
| Operation Mode | 802.11 n_HT40 | Test Date | 2014,1,30 |
| Temperature    | :25           | Test By   | Cooper    |
| Humidity       | :62 %         |           |           |

| Test Temp. | Test Voltage | Channel | Measured Frequency (MHz) | Spectrum Frequency (MHz) | ΔFrequency (MHz) |
|------------|--------------|---------|--------------------------|--------------------------|------------------|
| 25         | 3.8V         | 38      | 5190.0000                | 5,190.001330             | -0.0013          |
|            |              | 46      | 5230.0000                | 5,230.001420             | -0.0014          |
|            |              | 54      | 5270.0000                | 5,270.001470             | -0.0015          |
|            |              | 62      | 5310.0000                | 5,310.001570             | -0.0016          |
|            |              | 102     | 5510.0000                | 5,510.001650             | -0.0017          |
|            |              | 110     | 5550.0000                | 5,550.001820             | -0.0018          |
|            |              | 134     | 5670.0000                | 5,670.001930             | -0.0019          |
| -20        | 3.4V         | 38      | 5190.0000                | 5,190.001660             | -0.0017          |
|            |              | 46      | 5230.0000                | 5,230.001740             | -0.0017          |
|            |              | 54      | 5270.0000                | 5,270.001810             | -0.0018          |
|            |              | 62      | 5310.0000                | 5,310.001880             | -0.0019          |
|            |              | 102     | 5510.0000                | 5,510.001910             | -0.0019          |
|            |              | 110     | 5550.0000                | 5,550.002010             | -0.0020          |
|            |              | 134     | 5670.0000                | 5,670.002130             | -0.0021          |
| -20        | 4.35V        | 38      | 5190.0000                | 5,190.001680             | -0.0017          |
|            |              | 46      | 5230.0000                | 5,230.001760             | -0.0018          |
|            |              | 54      | 5270.0000                | 5,270.001830             | -0.0018          |
|            |              | 62      | 5310.0000                | 5,310.001870             | -0.0019          |
|            |              | 102     | 5510.0000                | 5,510.001880             | -0.0019          |
|            |              | 110     | 5550.0000                | 5,550.001970             | -0.0020          |
|            |              | 134     | 5670.0000                | 5,670.002100             | -0.0021          |

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|    |       |     |           |              |         |
|----|-------|-----|-----------|--------------|---------|
| 60 | 3.4V  | 38  | 5190.0000 | 5,190.001010 | -0.0010 |
|    |       | 46  | 5230.0000 | 5,230.001220 | -0.0012 |
|    |       | 54  | 5270.0000 | 5,270.001190 | -0.0012 |
|    |       | 62  | 5310.0000 | 5,310.001330 | -0.0013 |
|    |       | 102 | 5510.0000 | 5,510.001490 | -0.0015 |
|    |       | 110 | 5550.0000 | 5,550.001510 | -0.0015 |
|    |       | 134 | 5670.0000 | 5,670.001580 | -0.0016 |
| 60 | 4.35V | 38  | 5190.0000 | 5,190.001070 | -0.0011 |
|    |       | 46  | 5230.0000 | 5,230.001250 | -0.0013 |
|    |       | 54  | 5270.0000 | 5,270.001220 | -0.0012 |
|    |       | 62  | 5310.0000 | 5,310.001300 | -0.0013 |
|    |       | 102 | 5510.0000 | 5,510.001450 | -0.0014 |
|    |       | 110 | 5550.0000 | 5,550.001540 | -0.0015 |
|    |       | 134 | 5670.0000 | 5,670.001560 | -0.0016 |

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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 -0.54dBi (5150MHz– 5250MHz), -0.89dBi (5250MHz– 5350MHz), -0.34dBi (5470MHz– 5725MHz), -0.19dBi (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.

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# APPENDIX 1

## MEASUREMENT PLOT OF RADIATED SPURIOUS EMISSION

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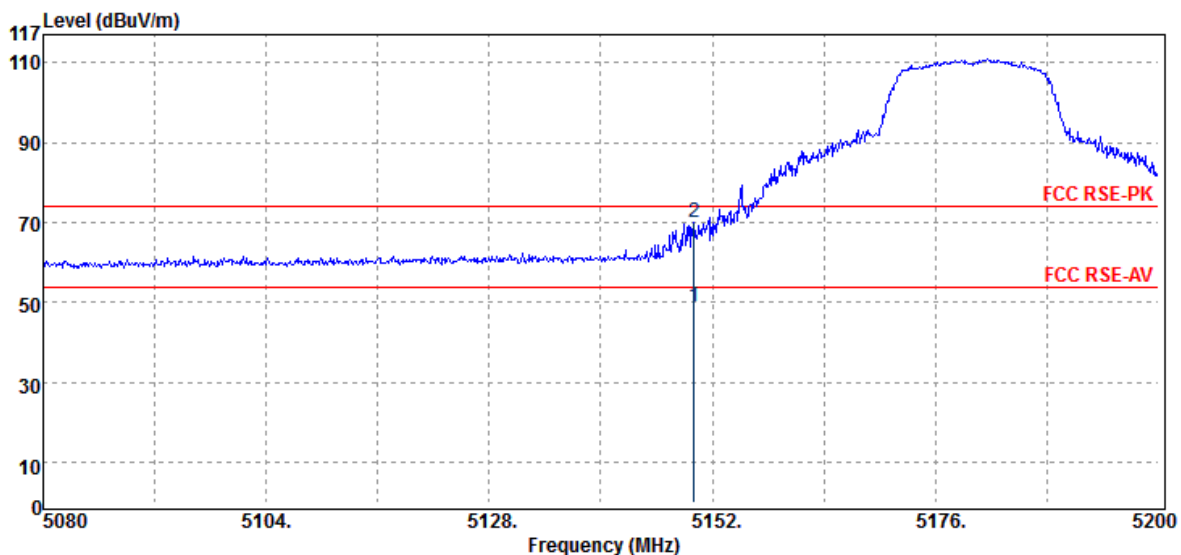
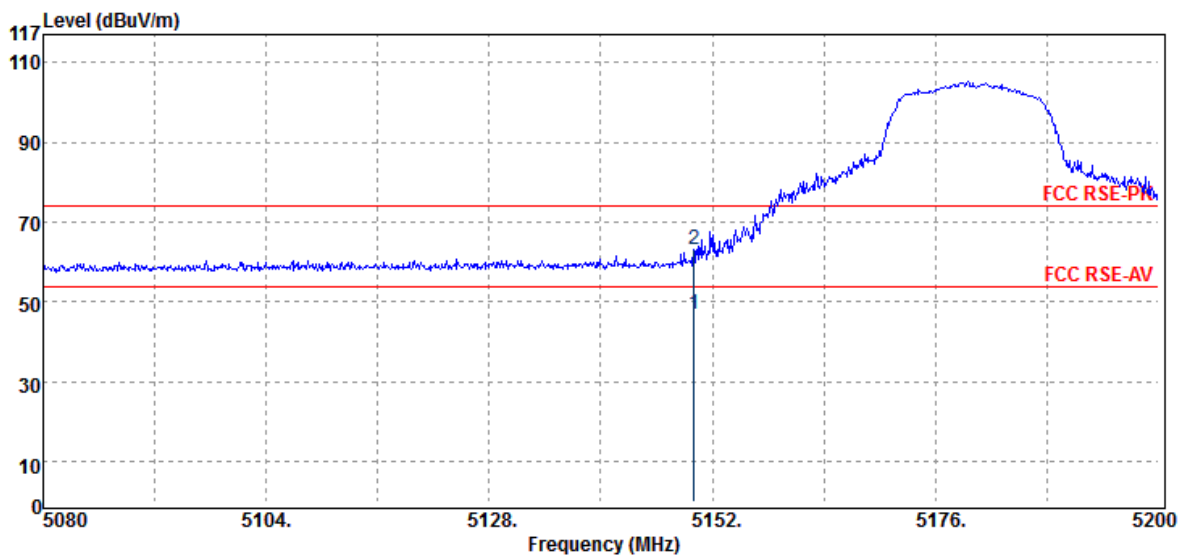
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## Band Edges Radiated Emission:

**Note:** The emission that surpasses the limit of peak represents the fundamental emission of the operation that does not account to be conformed to the limit of the interest.

### 802.11a

|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 a      | Test Date                | :2014-11-17       |
| Fundamental Frequency | :5180 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane      | Measurement Antenna Pol. | :Ver. / Hor.      |



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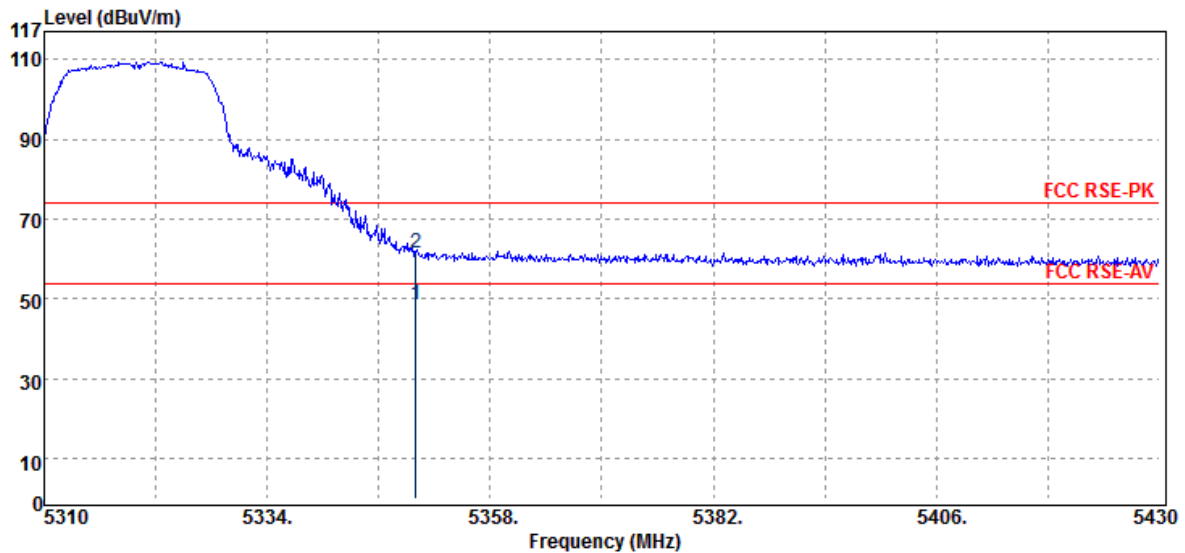
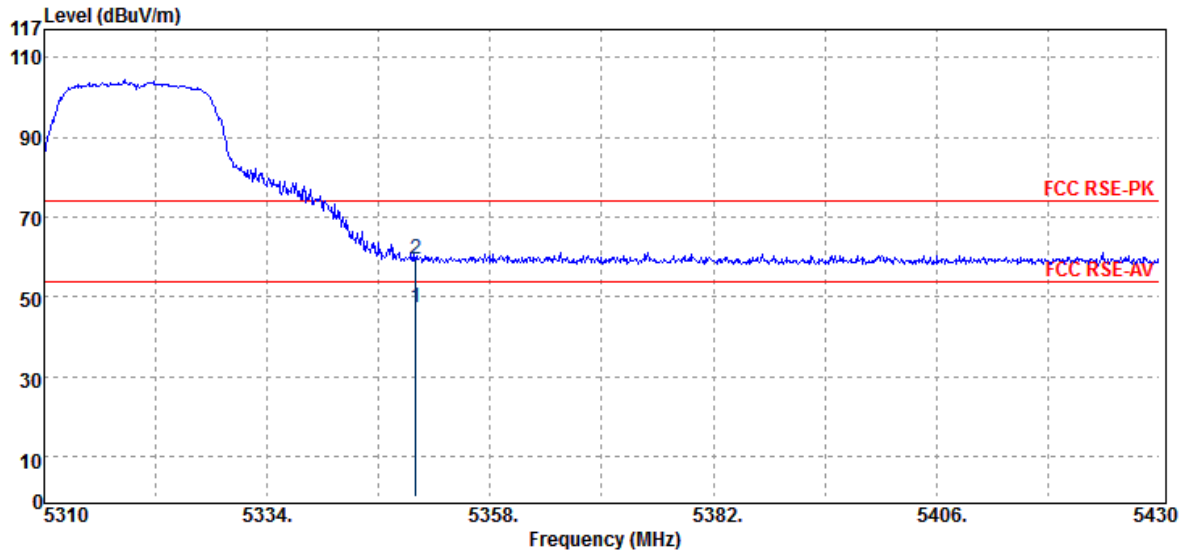
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|                       |                 |                          |                   |
|-----------------------|-----------------|--------------------------|-------------------|
| Operation Band        | :802.11 a       | Test Date                | :2014-11-17       |
| Fundamental Frequency | :5320 MHz       | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge HIGH | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane       | Measurement Antenna Pol. | :Ver. / Hor.      |



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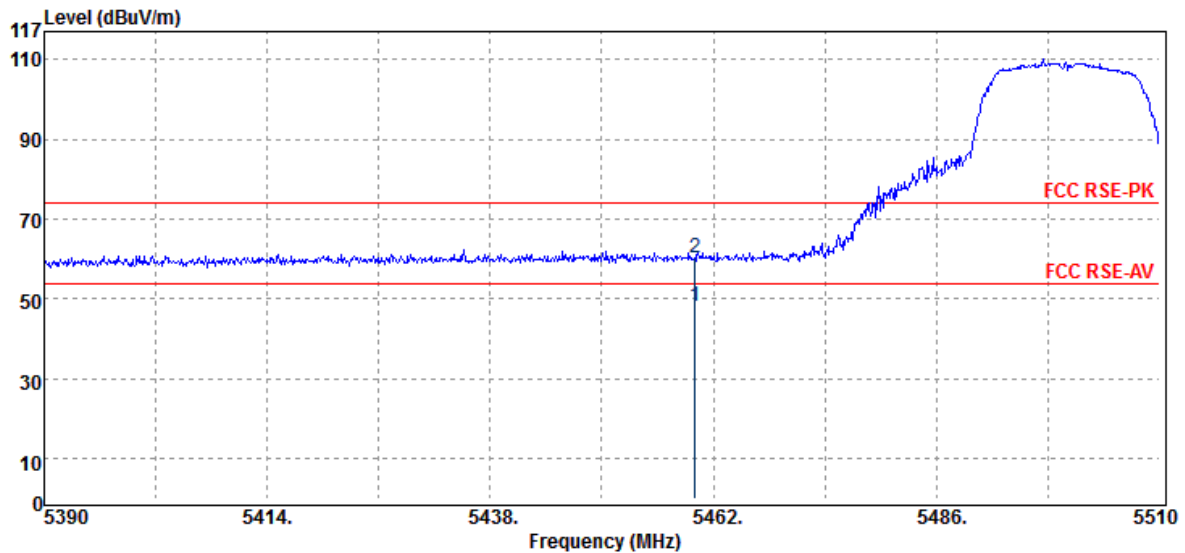
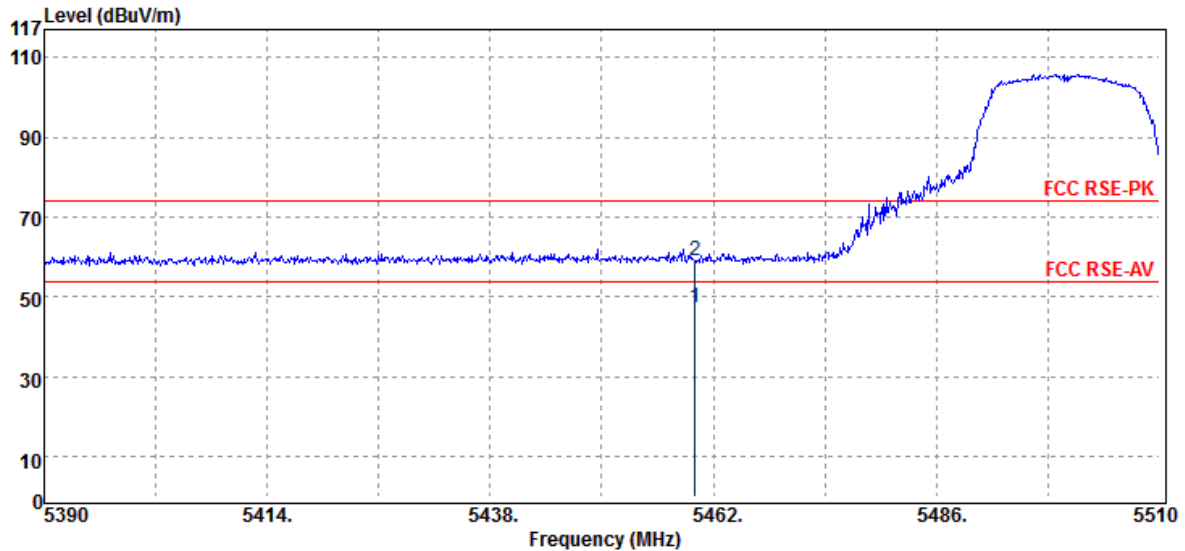
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Operation Band :802.11 a  
Fundamental Frequency :5500 MHz  
Operation Mode :Band Wdge LOW  
EUT Pol. :E1 Plane

Test Date :2014-11-17  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Tin  
Measurement Antenna Pol. : Ver. / Hor



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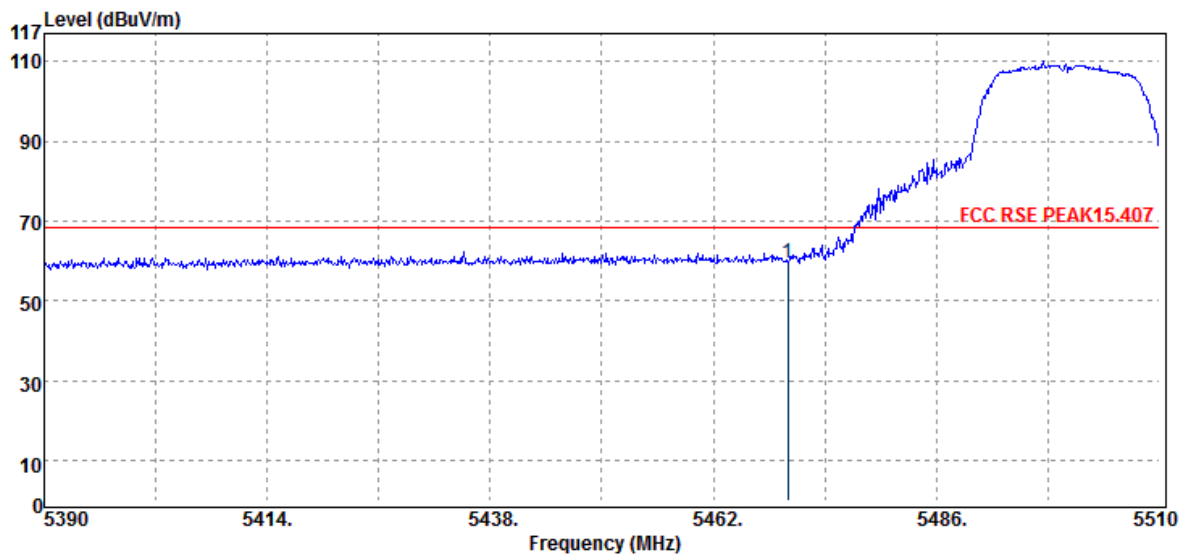
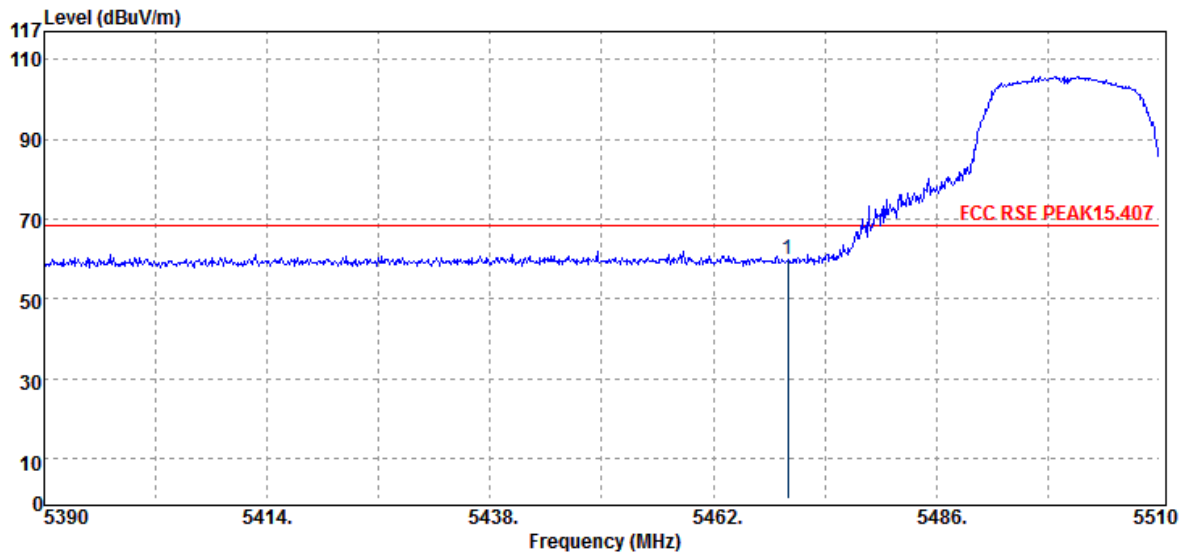
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|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 a      | Test Date                | :2014-11-28       |
| Fundamental Frequency | :5500 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Wdge LOW | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane      | Measurement Antenna Pol. | : Ver. / Hor      |



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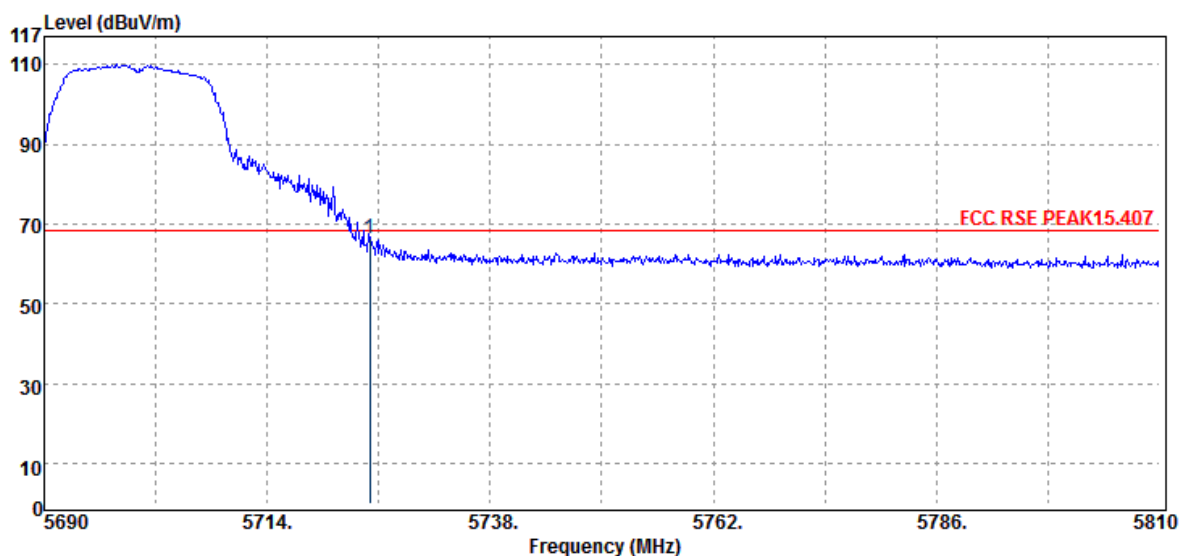
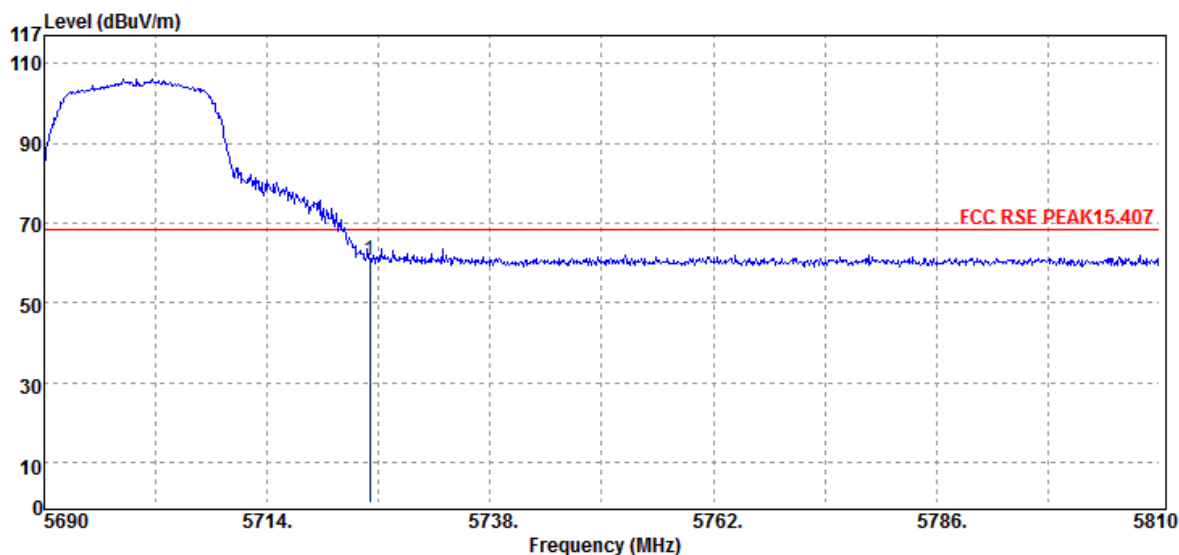
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|                       |                 |                          |                   |
|-----------------------|-----------------|--------------------------|-------------------|
| Operation Band        | :802.11 a       | Test Date                | :2014-11-28       |
| Fundamental Frequency | :5700 MHz       | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Wdge HIGH | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane       | Measurement Antenna Pol. | : Ver. / Hor.     |



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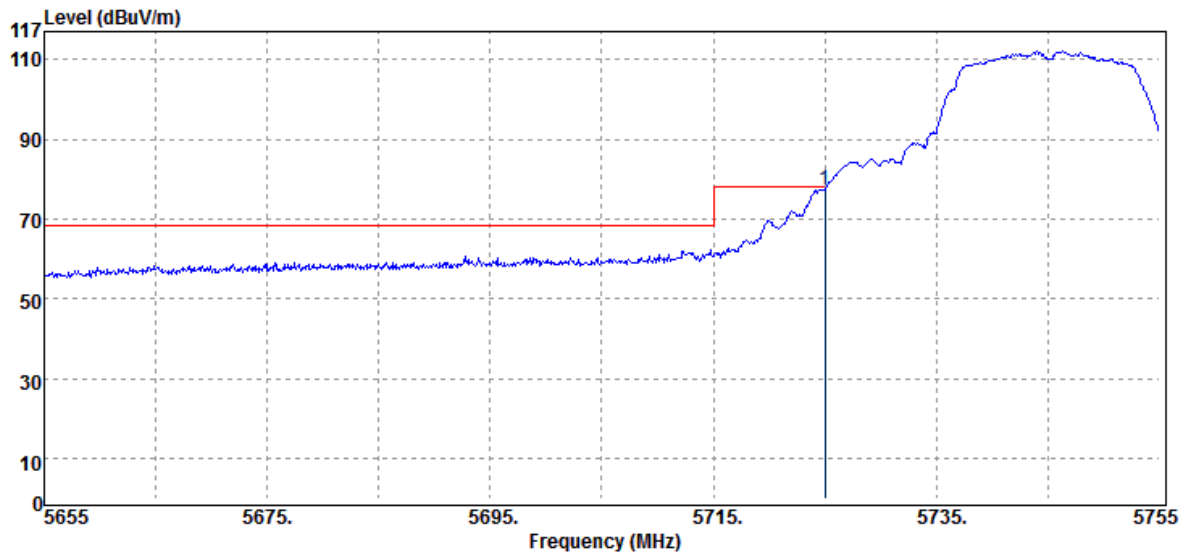
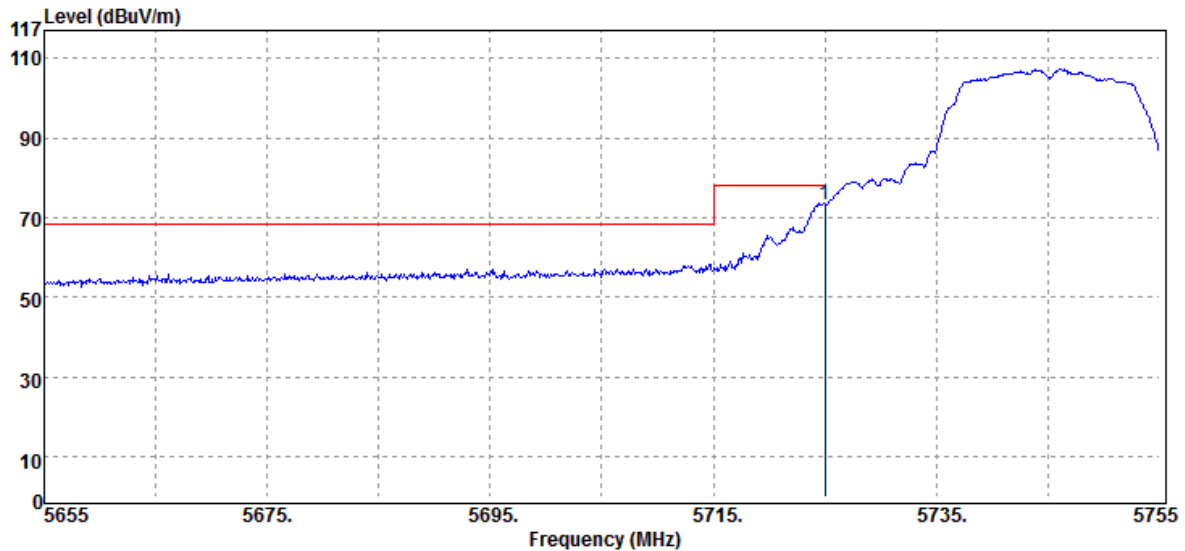
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|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 a      | Test Date                | :2014-11-17       |
| Fundamental Frequency | :5745 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Tin              |
| EUT Pol.              | : E1 Plane     | Measurement Antenna Pol. | : Ver. / Hor.     |



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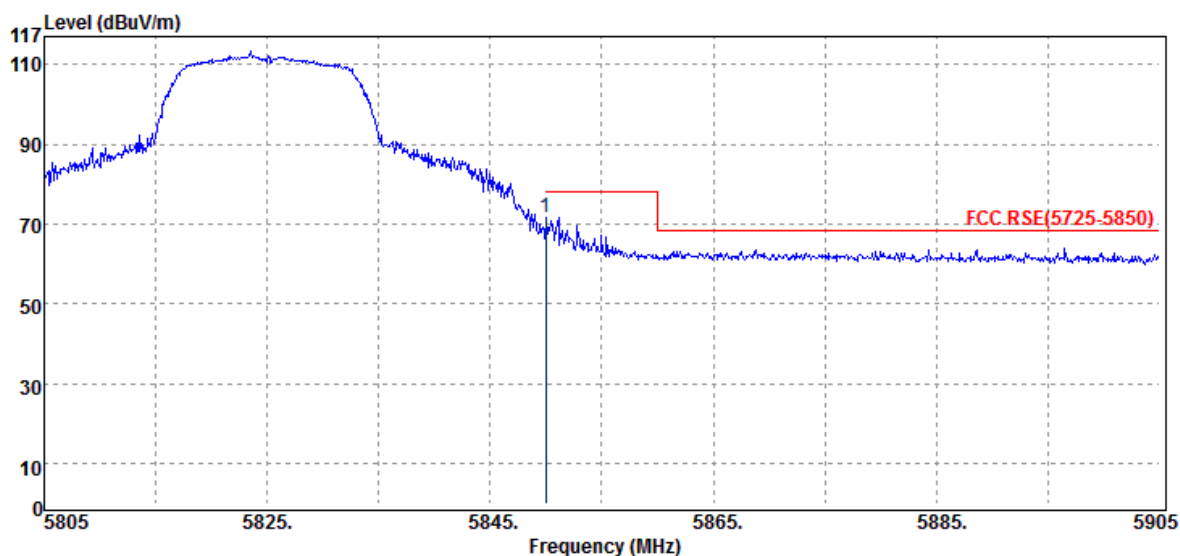
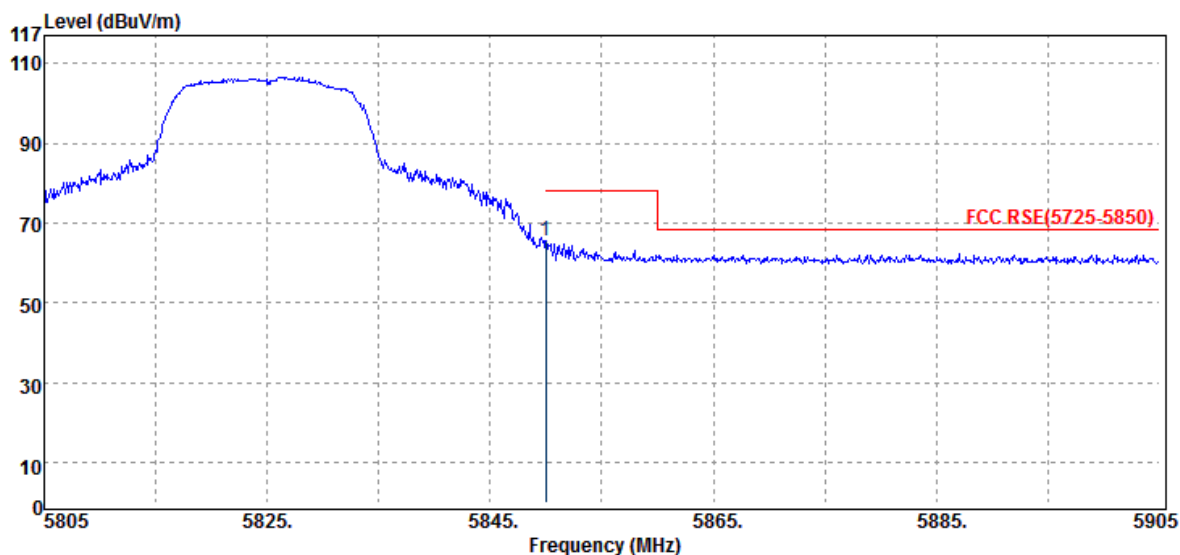
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|                       |                 |                          |                   |
|-----------------------|-----------------|--------------------------|-------------------|
| Operation Band        | :802.11 a       | Test Date                | :2014-11-17       |
| Fundamental Frequency | :5825 MHz       | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge HIGH | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane       | Measurement Antenna Pol. | : Ver. / Hor.     |



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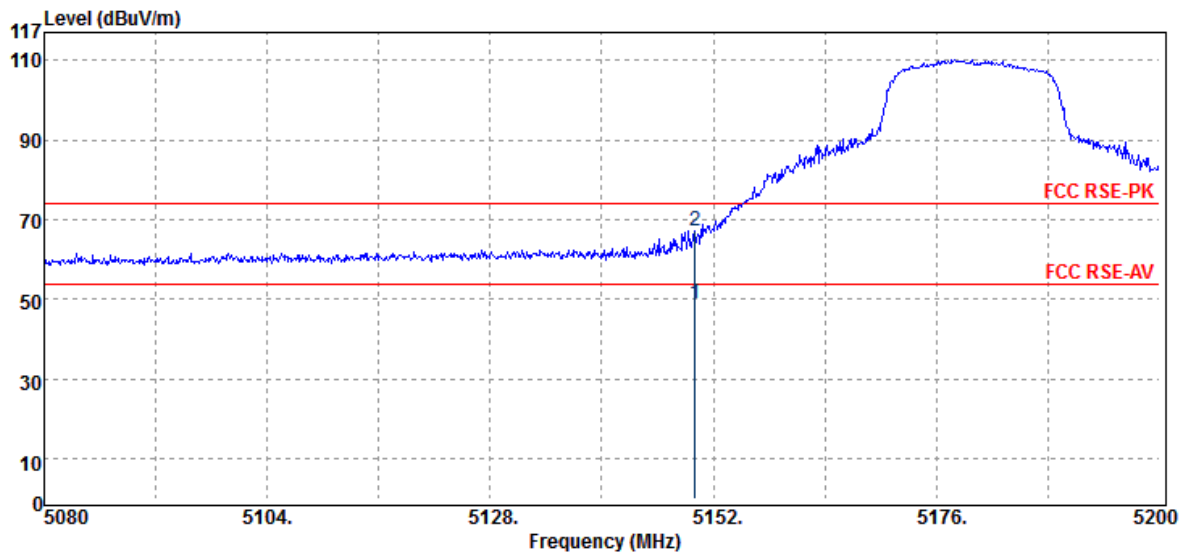
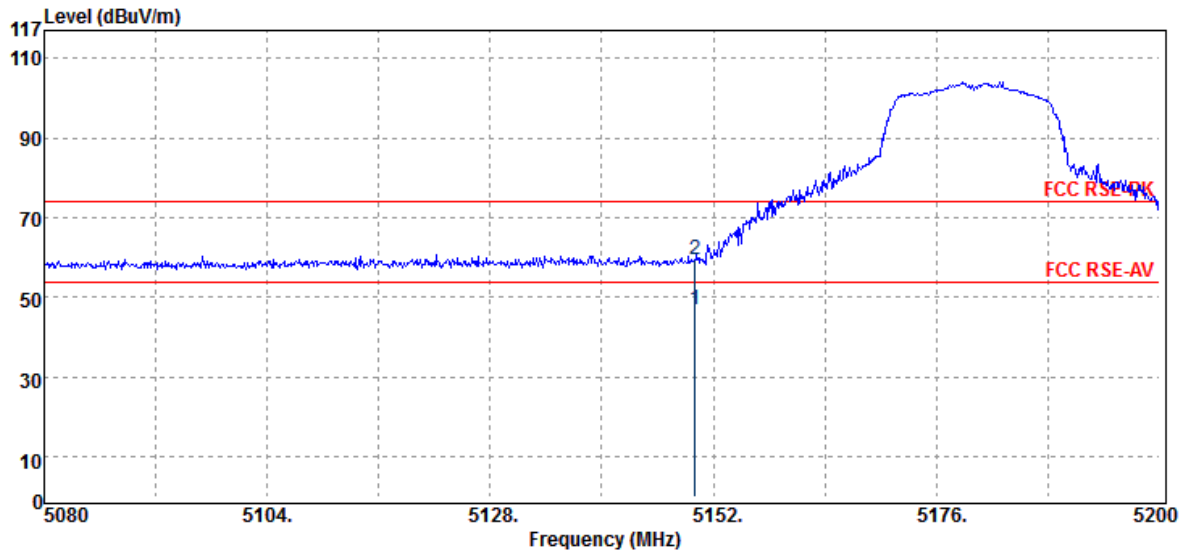
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## 802.11n\_20M

Operation Band :802.11 n20M  
Fundamental Frequency :5180 MHz  
Operation Mode :Band Edge LOW  
EUT Pol. :E1 Plane

Test Date :2014-11-17  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Tin  
Measurement Antenna Pol. :Ver. / Hor.



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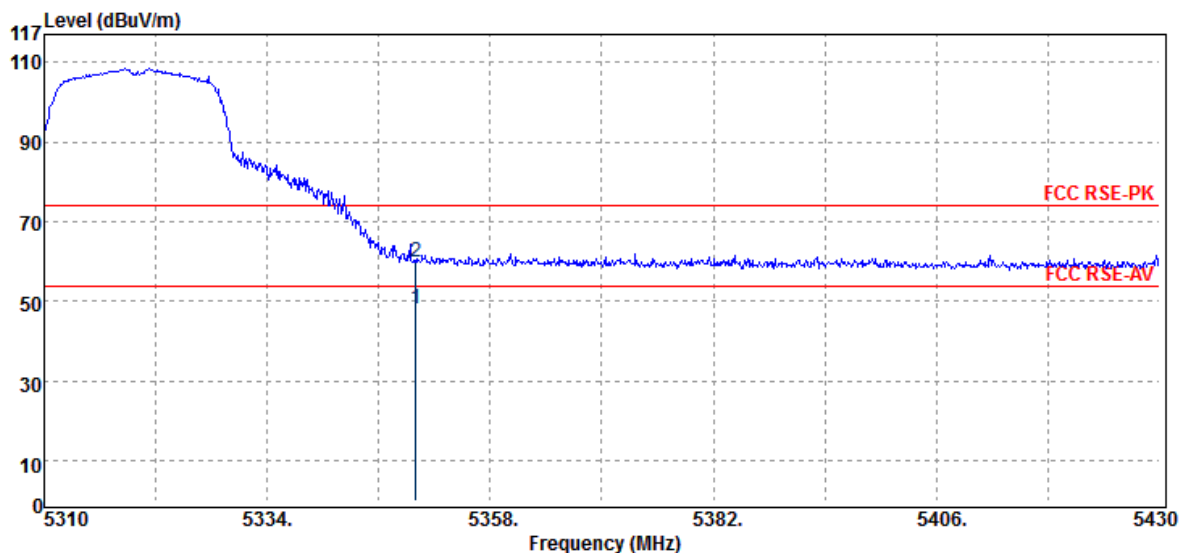
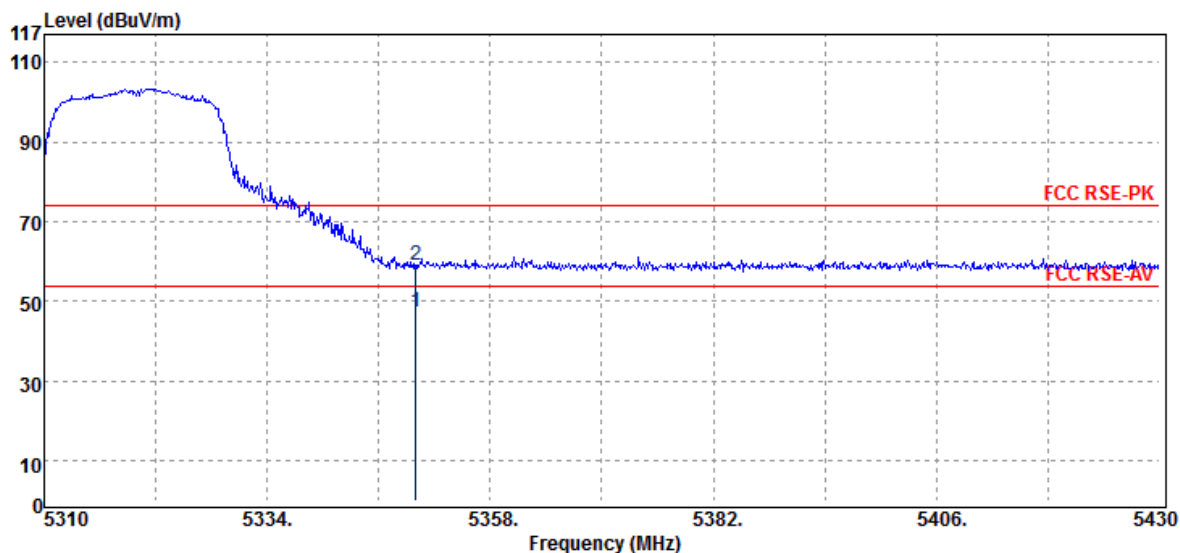
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|                       |                 |                          |                   |
|-----------------------|-----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M    | Test Date                | :2014-11-17       |
| Fundamental Frequency | :5320 MHz       | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge HIGH | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane       | Measurement Antenna Pol. | :Ver. / Hor.      |



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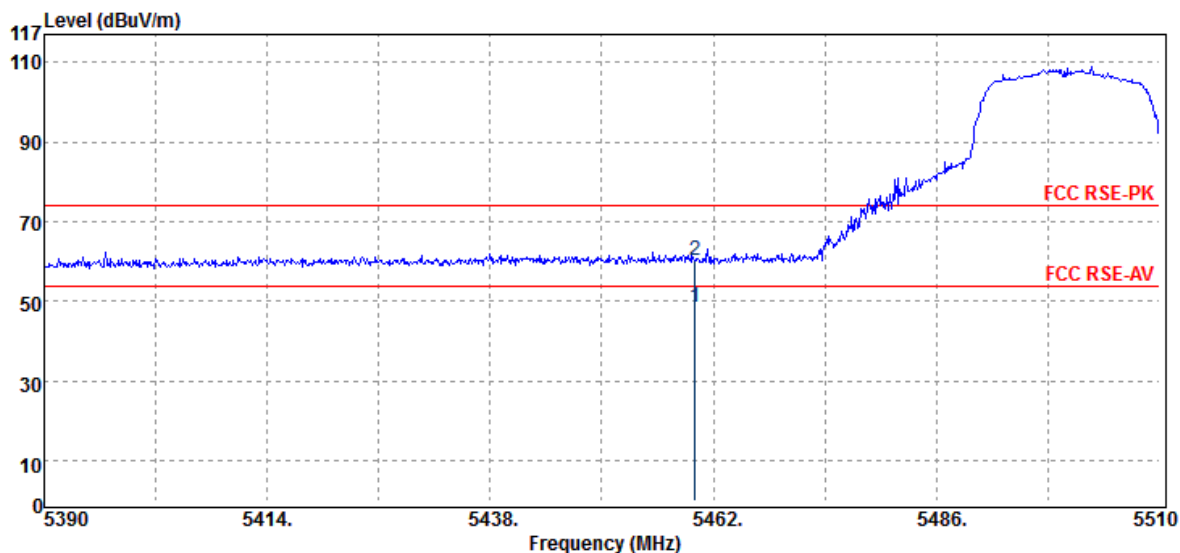
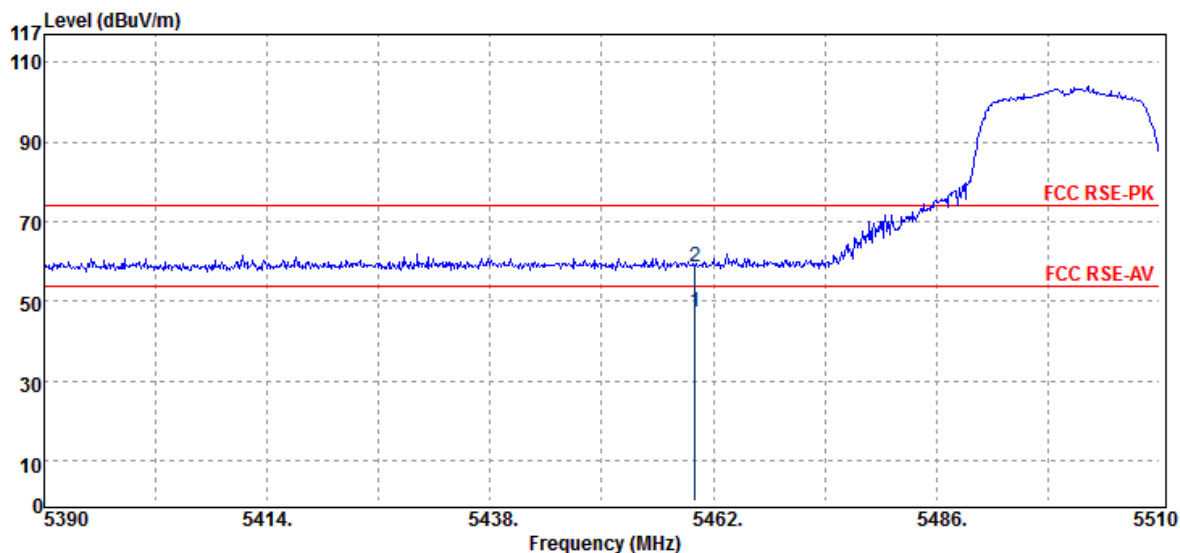
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|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M   | Test Date                | :2014-11-17       |
| Fundamental Frequency | :5500 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Wdge LOW | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane      | Measurement Antenna Pol. | :Ver. / Hor.      |



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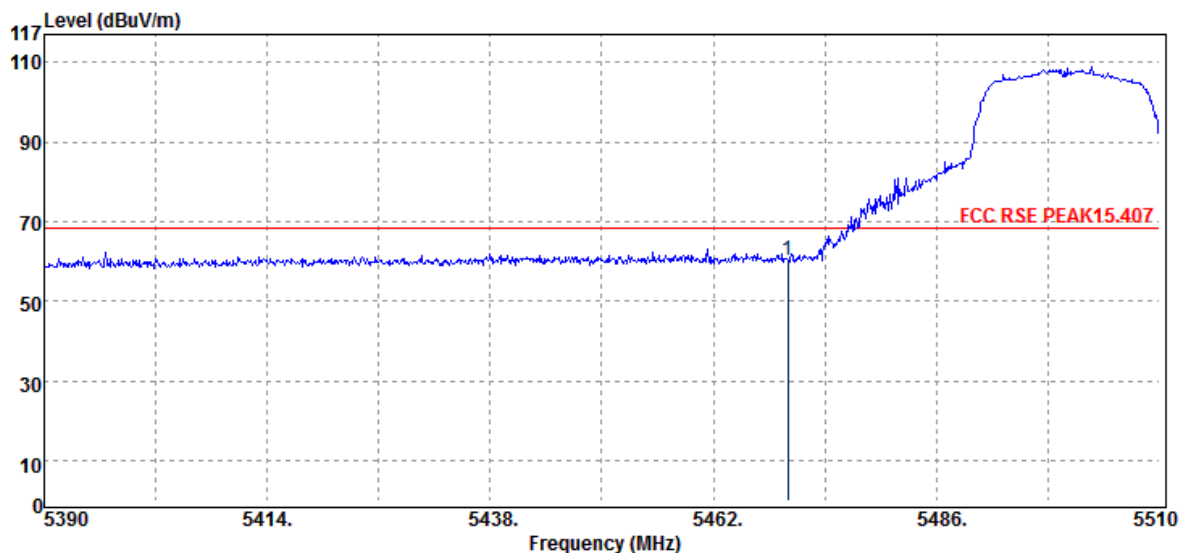
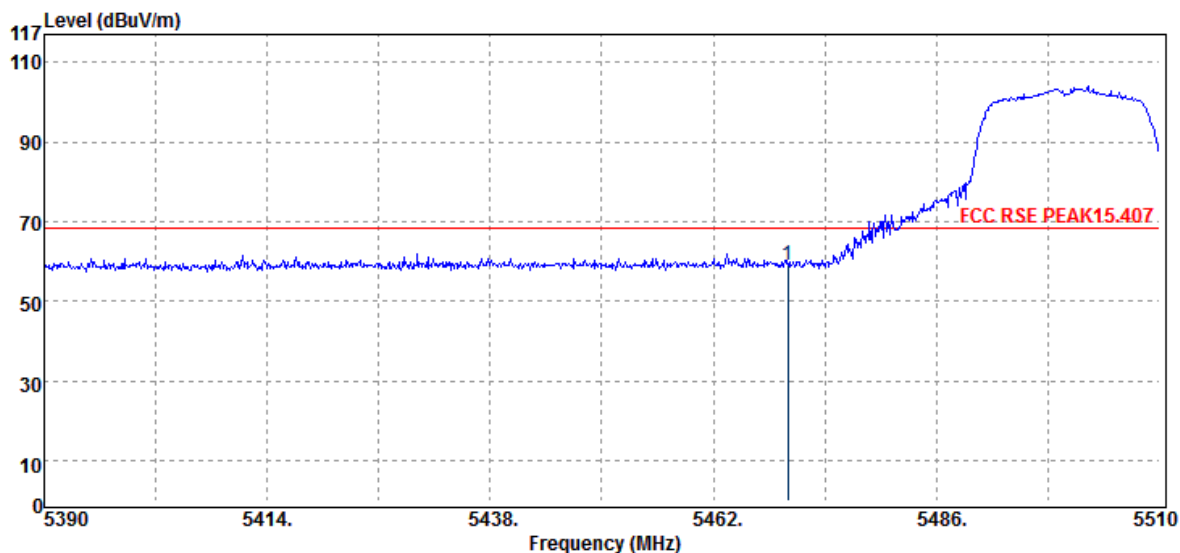
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|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M   | Test Date                | :2014-11-28       |
| Fundamental Frequency | :5500 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Wdge LOW | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane      | Measurement Antenna Pol. | : Ver. / Hor.     |



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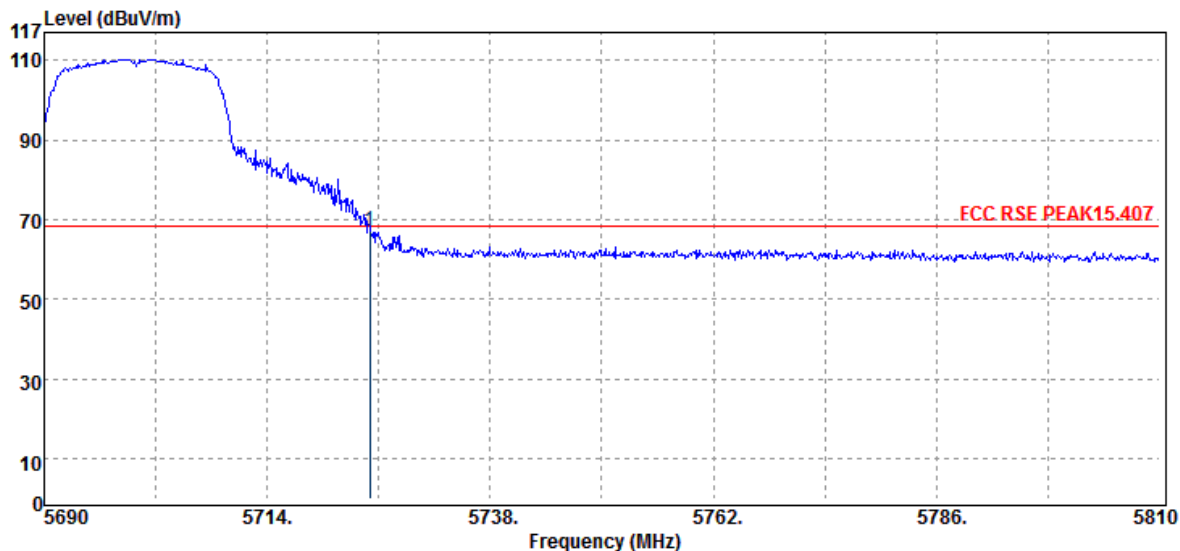
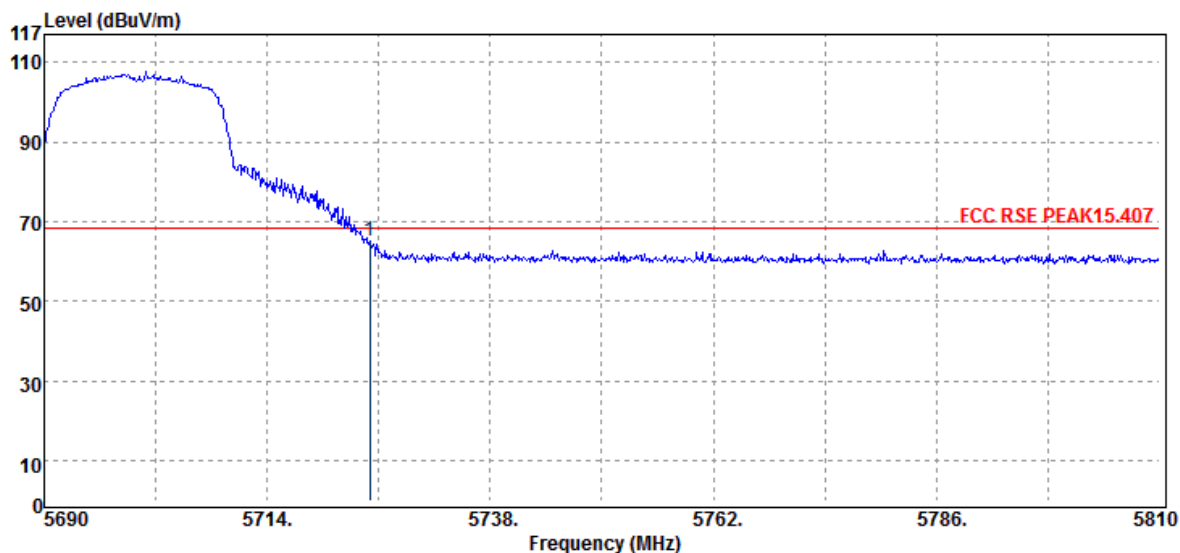
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|                       |                 |                          |                   |
|-----------------------|-----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M    | Test Date                | :2014-11-28       |
| Fundamental Frequency | :5700 MHz       | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Wdge HIGH | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane       | Measurement Antenna Pol. | : Ver. / Hor.     |



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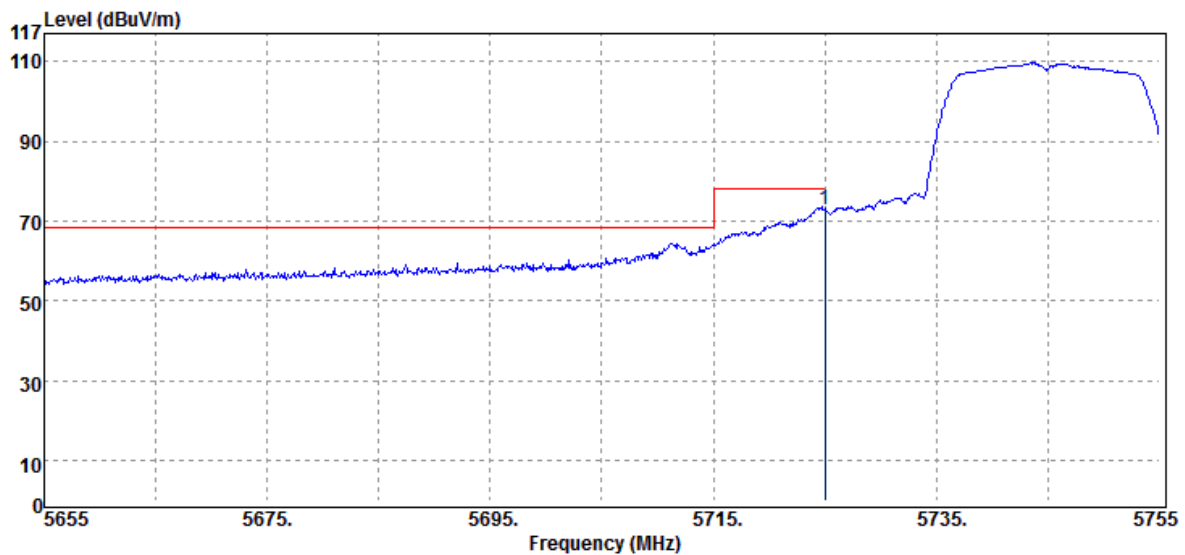
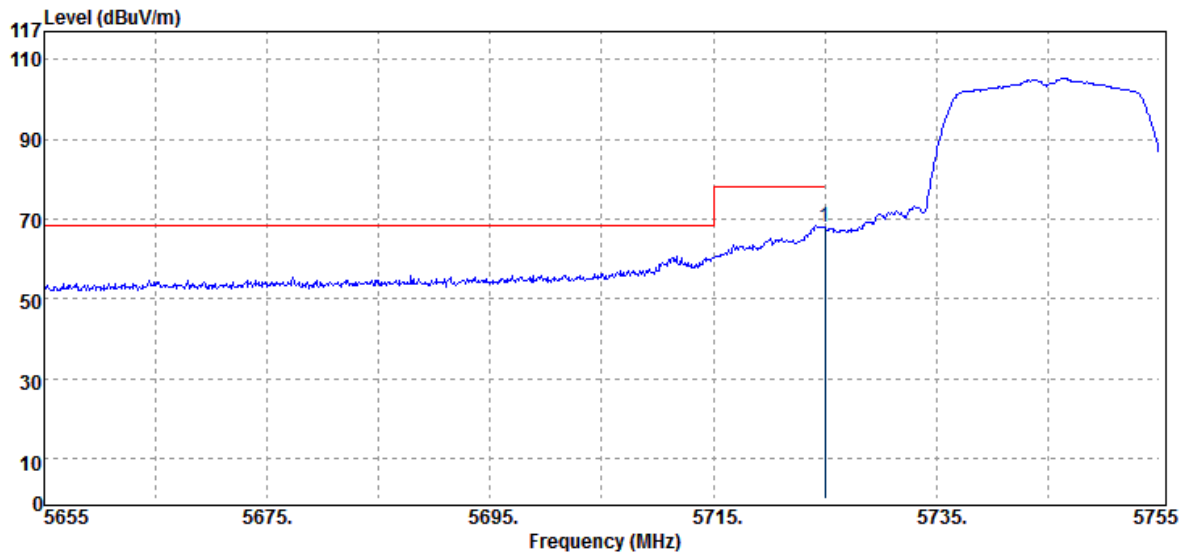
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Operation Band :802.11 n20M  
Fundamental Frequency :5745 MHz  
Operation Mode :Band Edge LOW  
EUT Pol. : E1 Plane

Test Date :2014-11-17  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Tin  
Measurement Antenna Pol. : Ver. / Hor.



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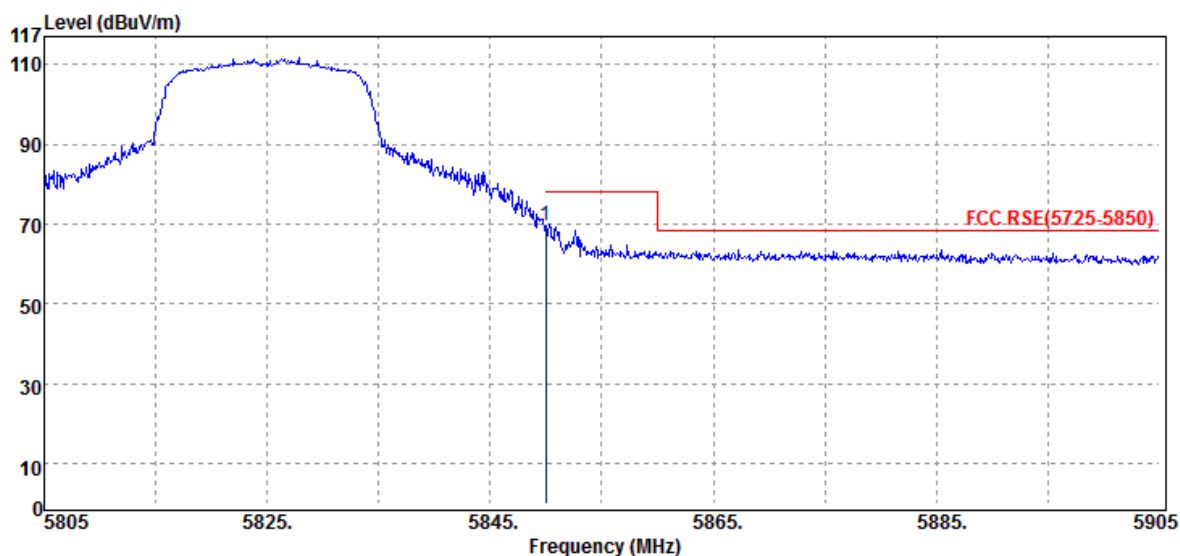
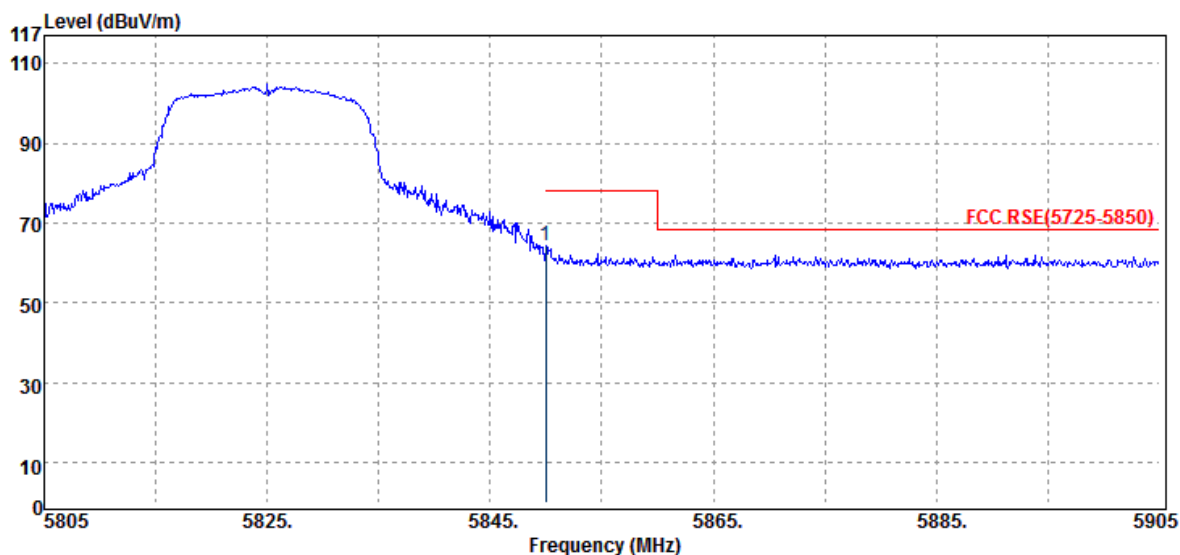
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|                       |                 |                          |                   |
|-----------------------|-----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M    | Test Date                | :2014-11-17       |
| Fundamental Frequency | :5825 MHz       | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge HIGH | Engineer                 | :Tin              |
| EUT Pol.              | : E1 Plane      | Measurement Antenna Pol. | : Ver. / Hor.     |



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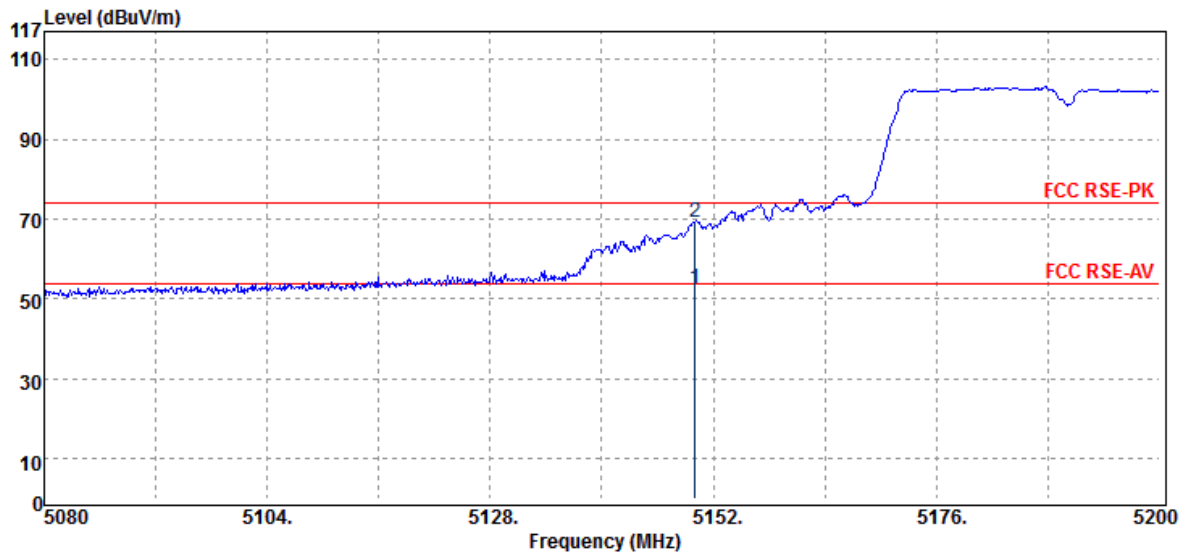
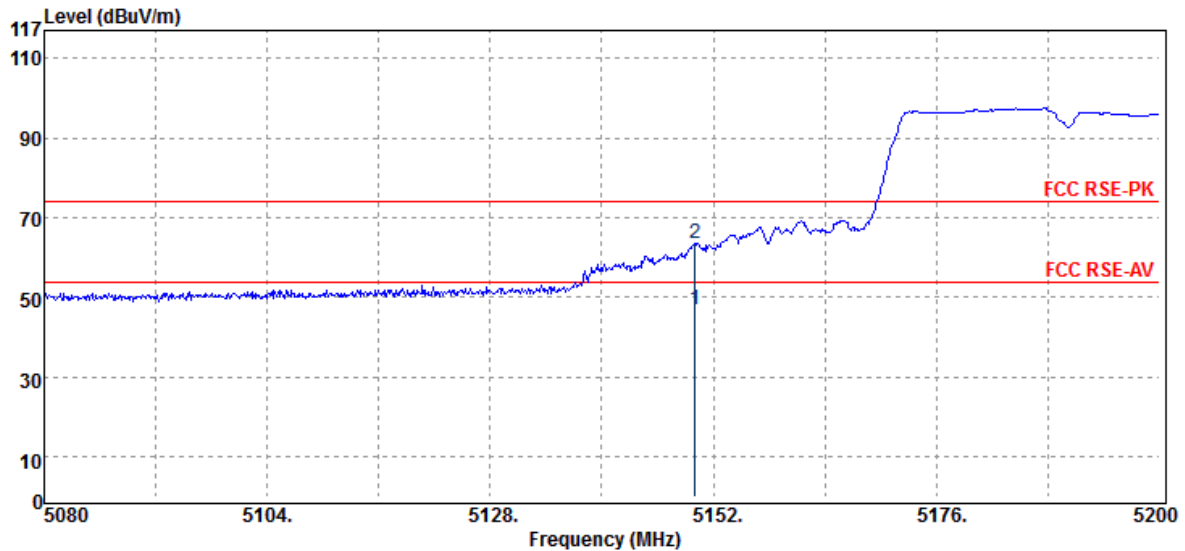
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# 802.11n\_40M

Operation Band :802.11 n40M  
Fundamental Frequency :5190 MHz  
Operation Mode :Band Edge LOW  
EUT Pol. :E1 Plane

Test Date :2014-11-17  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Tin  
Measurement Antenna Pol. :Ver. / Hor.



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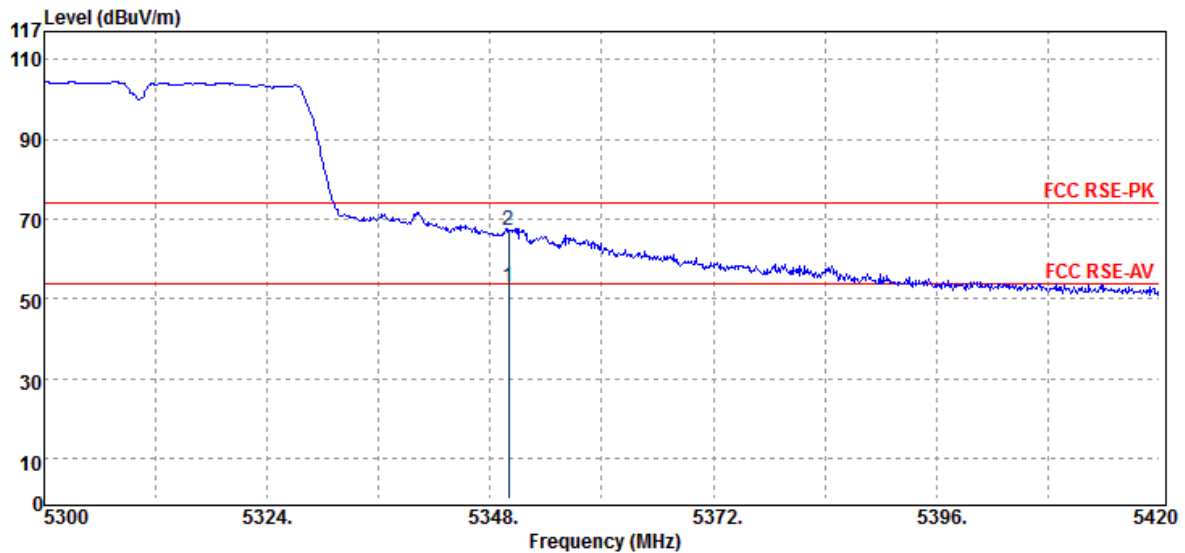
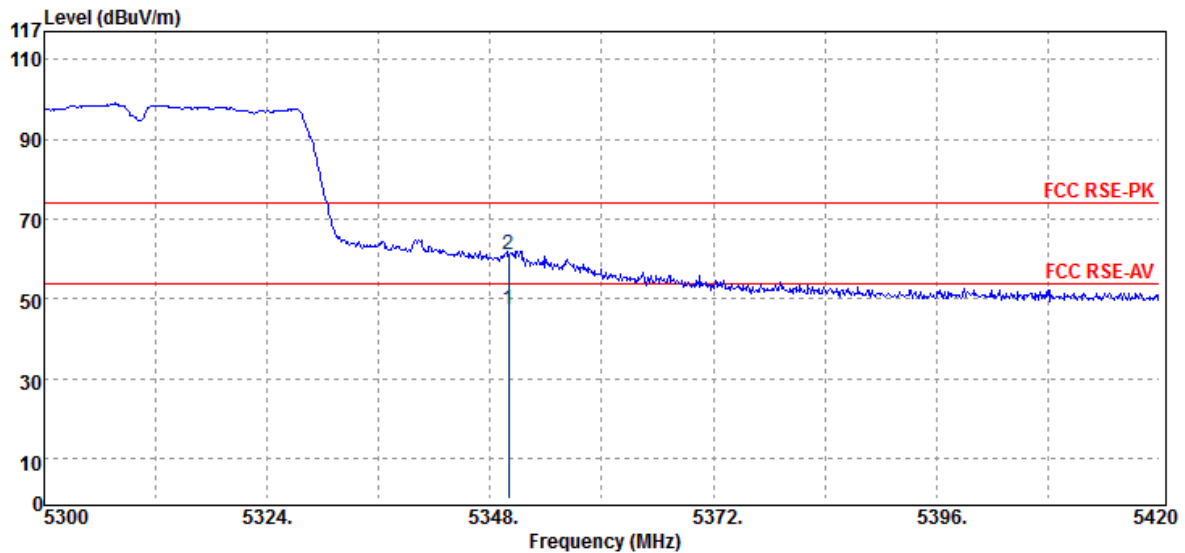
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|                       |                 |                          |                   |
|-----------------------|-----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n40M    | Test Date                | :2014-11-17       |
| Fundamental Frequency | :5310 MHz       | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge HIGH | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane       | Measurement Antenna Pol. | :Ver. / Hor.      |



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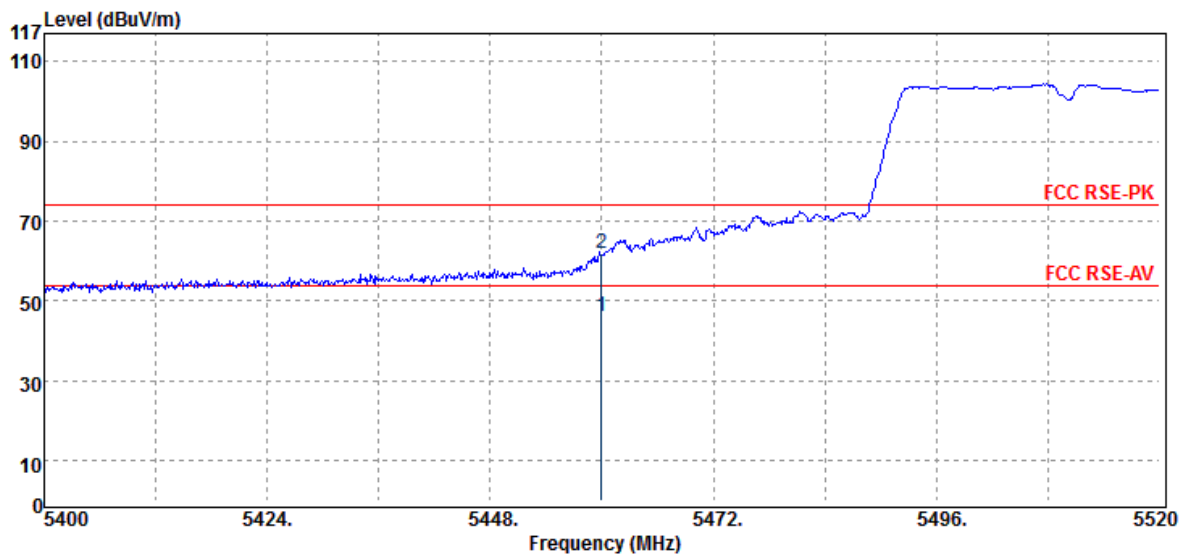
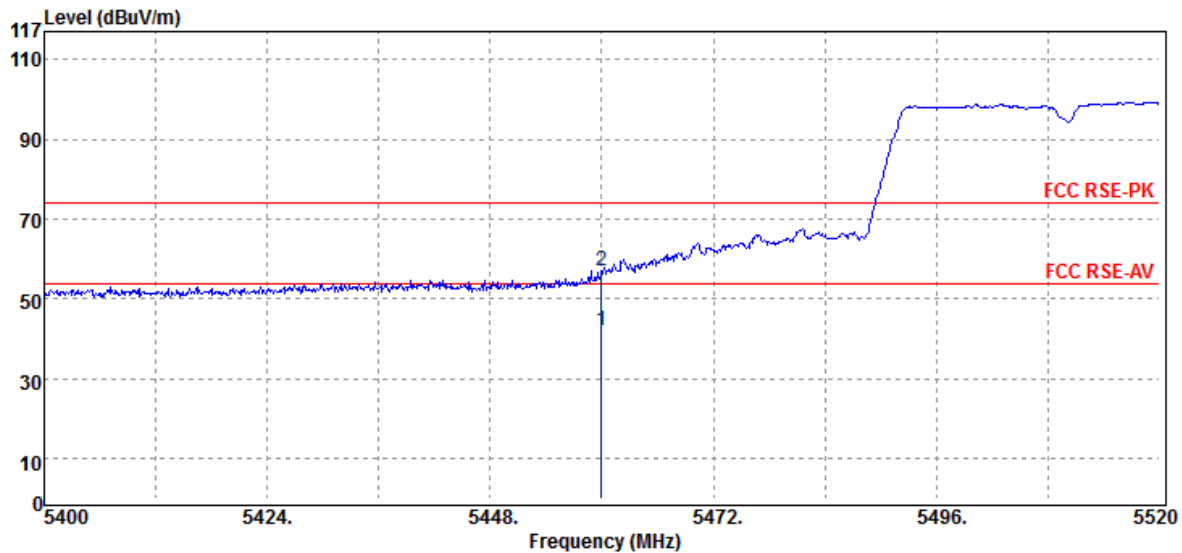
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|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n40M   | Test Date                | :2014-11-17       |
| Fundamental Frequency | :5510 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane      | Measurement Antenna Pol. | :Ver. / Hor.      |



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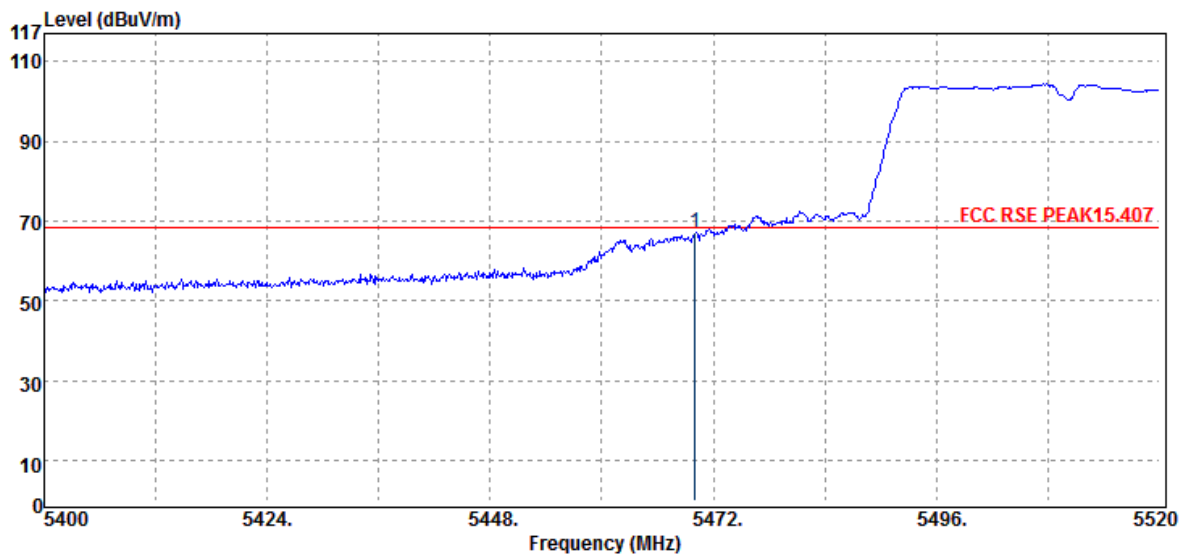
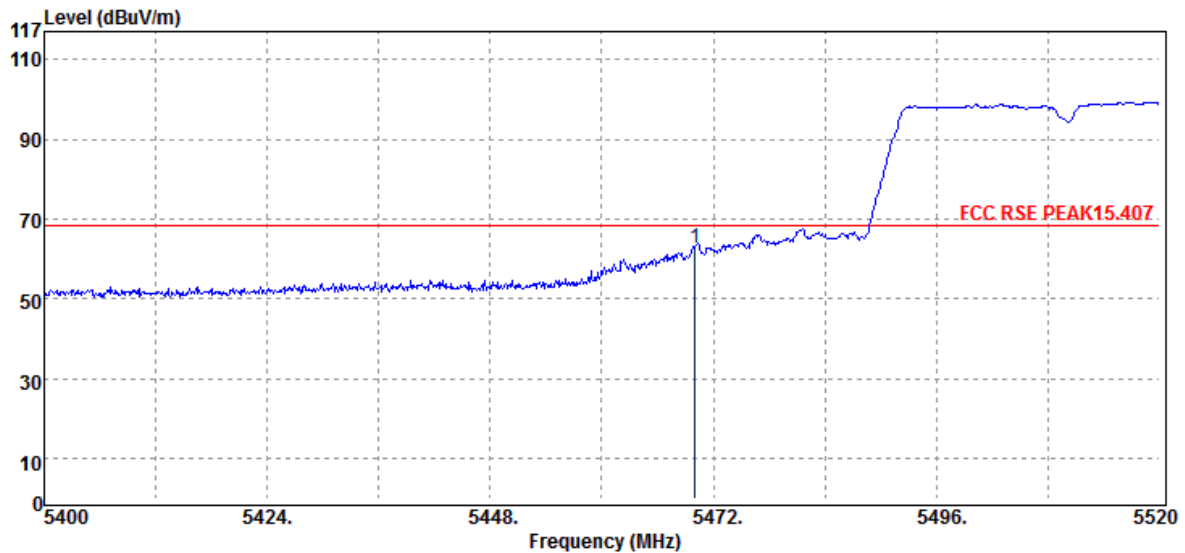
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|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n40M P | Test Date                | :2014-11-28       |
| Fundamental Frequency | :5510 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane      | Measurement Antenna Pol. | : Ver. / Hor.     |



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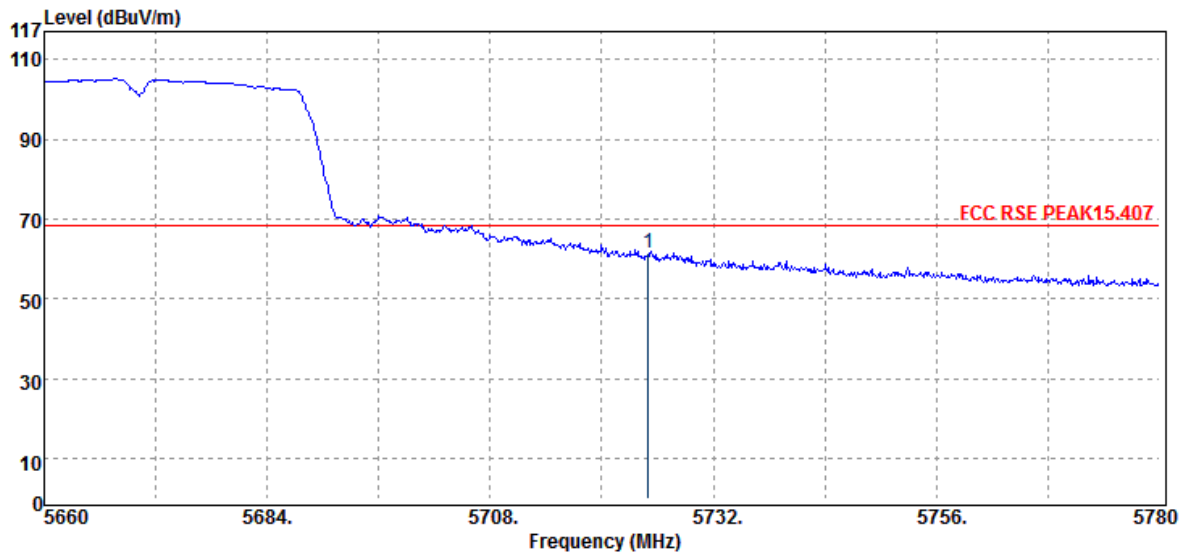
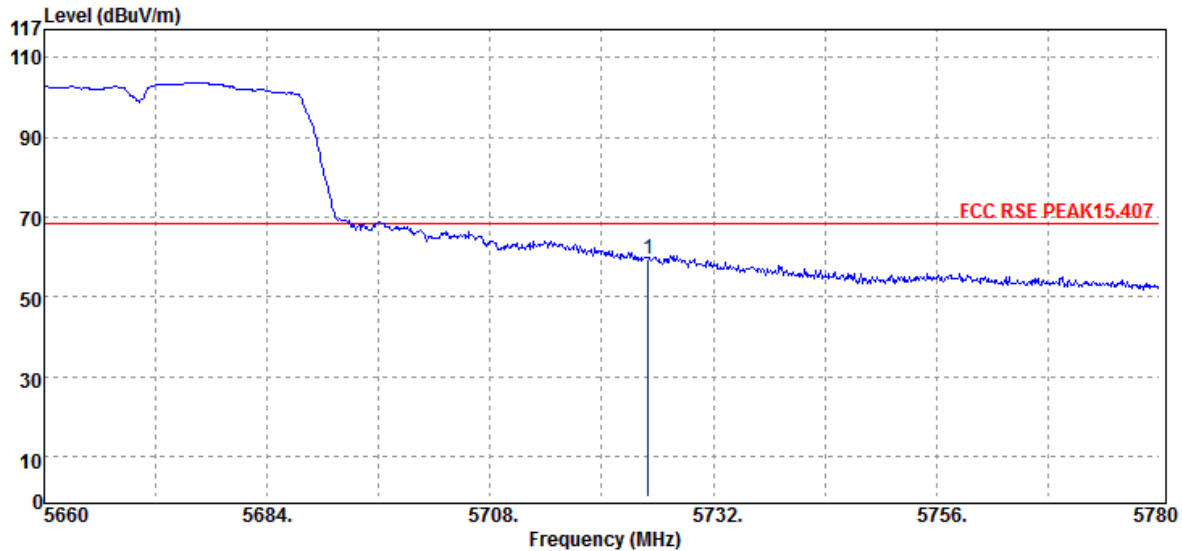
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|                       |                 |                          |                   |
|-----------------------|-----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n40M    | Test Date                | :2014-11-28       |
| Fundamental Frequency | :5670 MHz       | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge HIGH | Engineer                 | :Tin              |
| EUT Pol.              | :E1 Plane       | Measurement Antenna Pol. | : Ver. / Hor.     |



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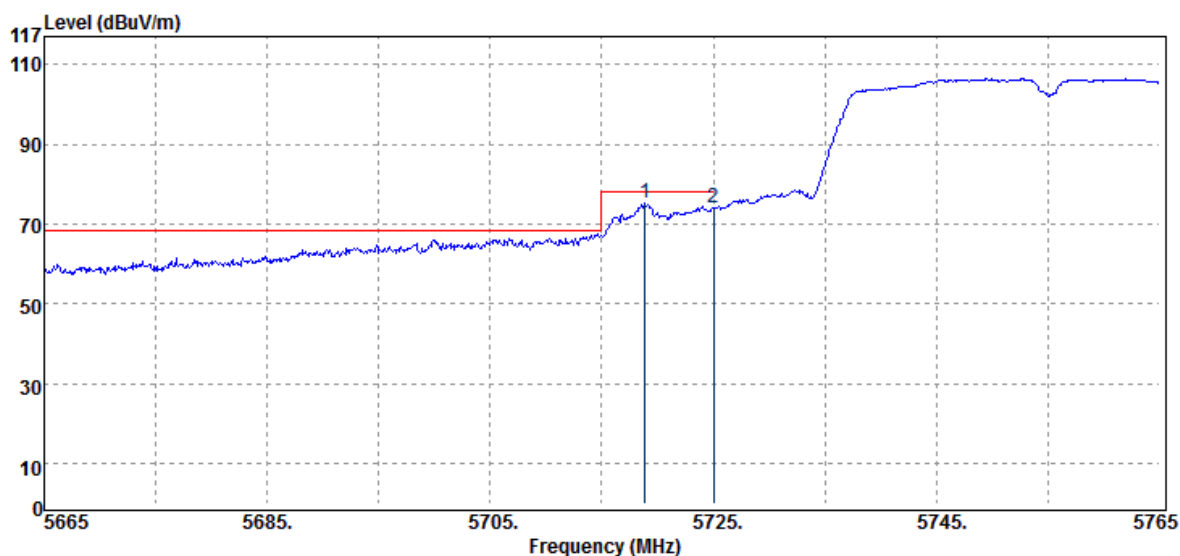
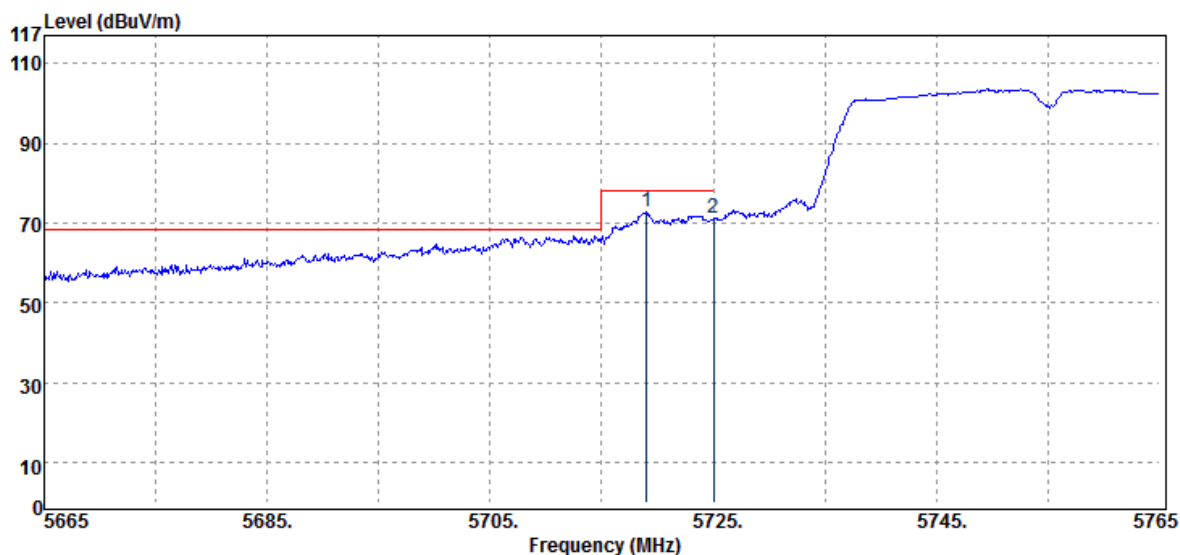
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|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n40M   | Test Date                | :2014-11-17       |
| Fundamental Frequency | :5755 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Tin              |
| EUT Pol.              | : E1 Plane     | Measurement Antenna Pol. | : Ver. / Hor.     |



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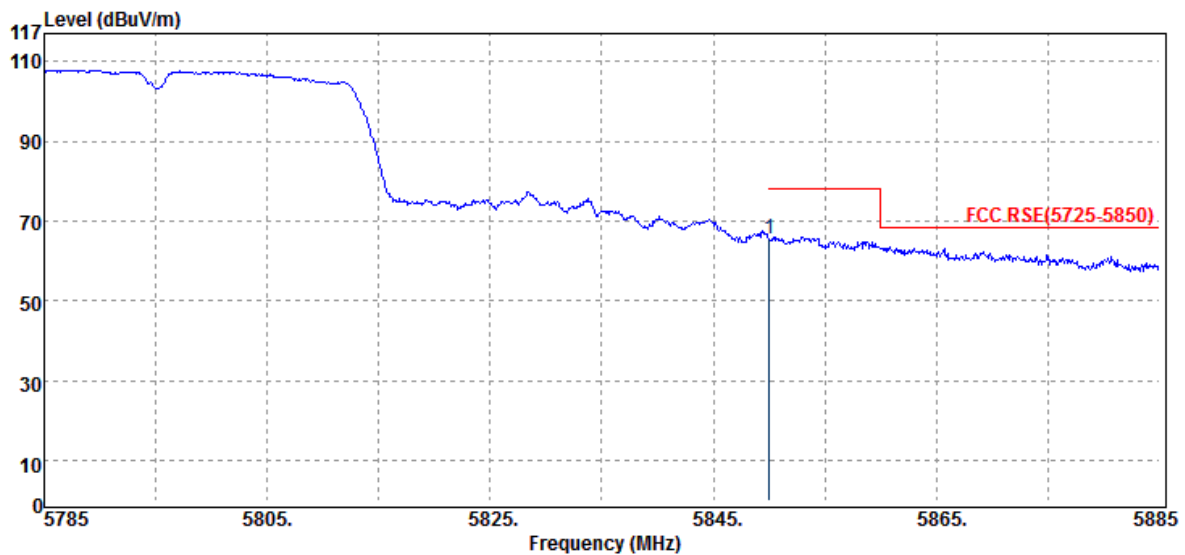
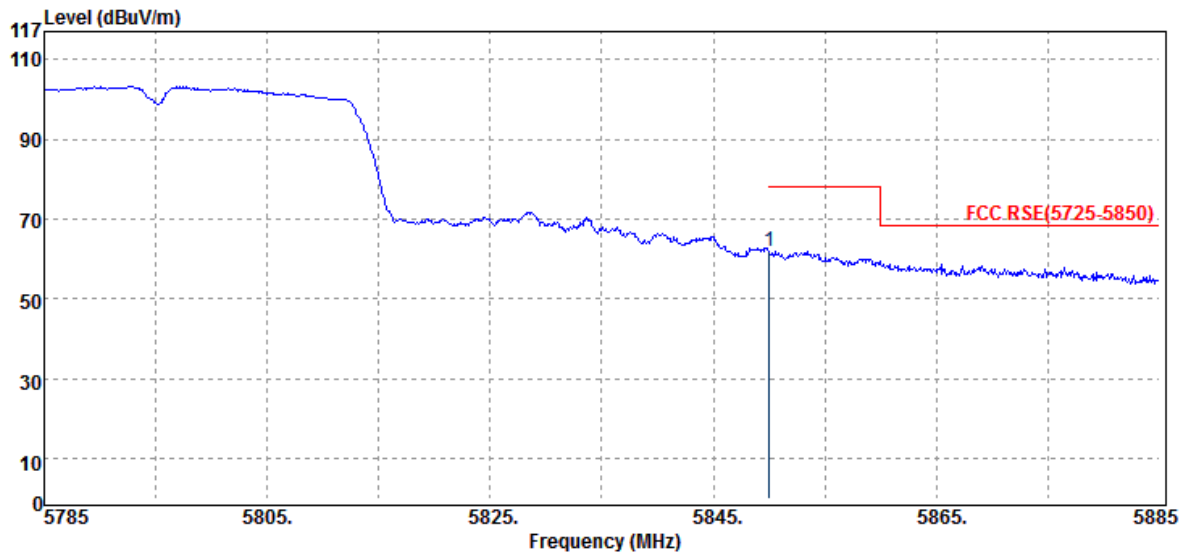
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|                       |                 |                          |                   |
|-----------------------|-----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n40M    | Test Date                | :2014-11-17       |
| Fundamental Frequency | :5795 MHz       | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge HIGH | Engineer                 | :Tin              |
| EUT Pol.              | : E1 Plane      | Measurement Antenna Pol. | : Ver. / Hor.     |



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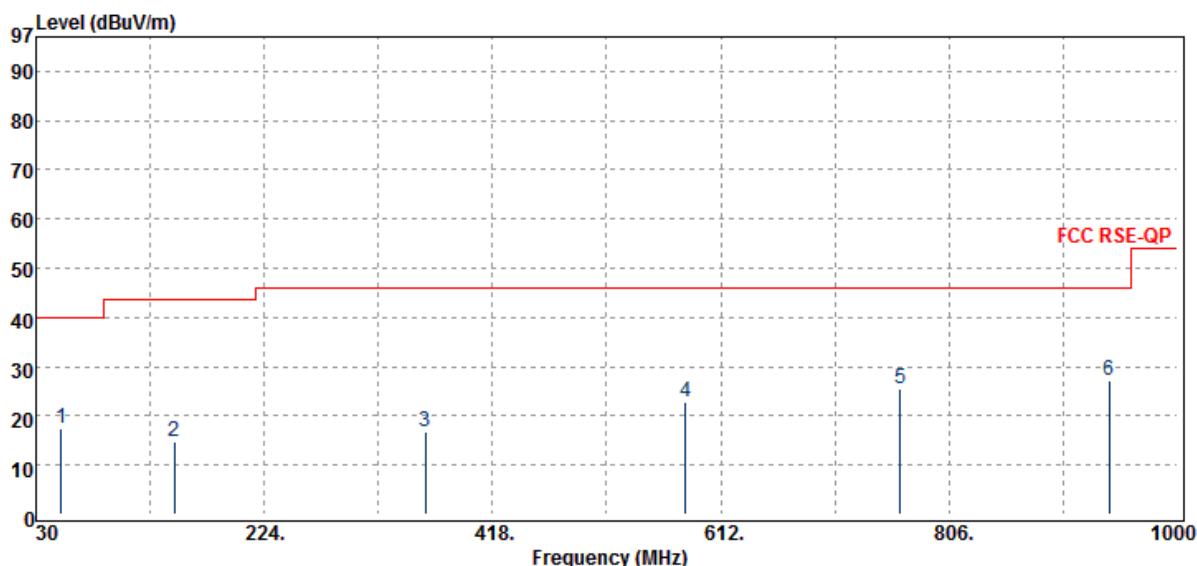
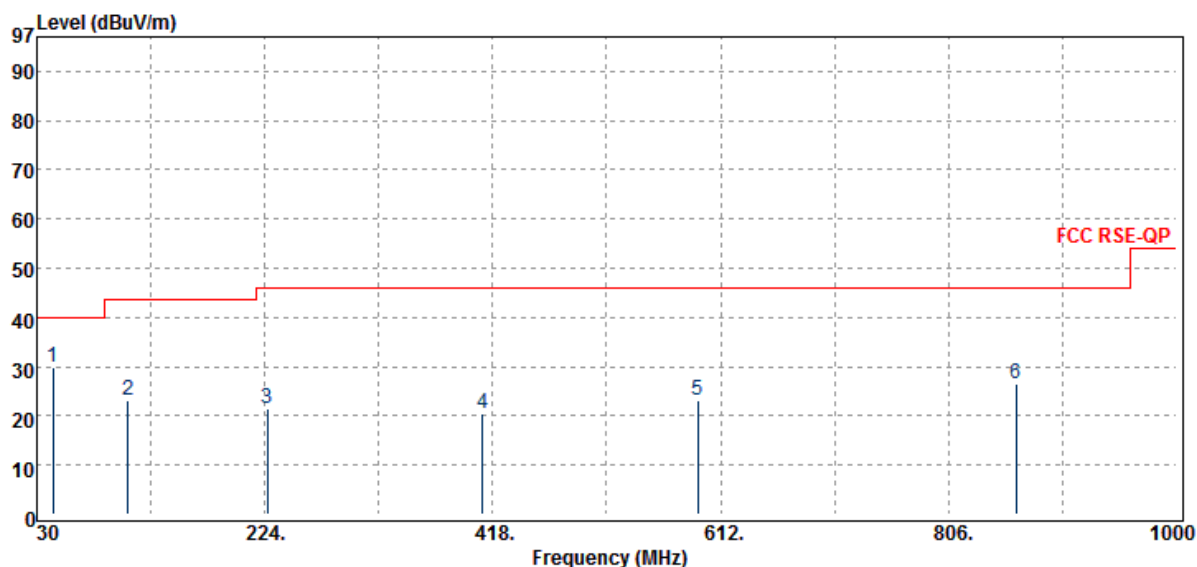
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## Radiated Spurious Emission Measurement photos Result (below 1GHz)

### 802.11a 5150-5250MHz

|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5180 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW   | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane | Measurement Antenna Pol. | :Ver. / Hor.      |



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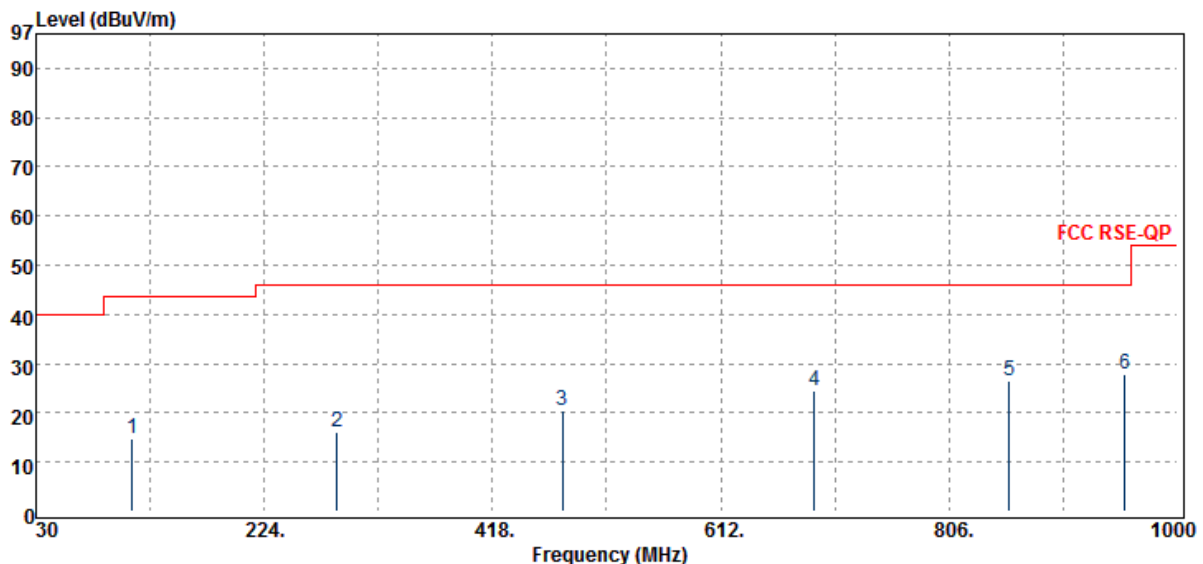
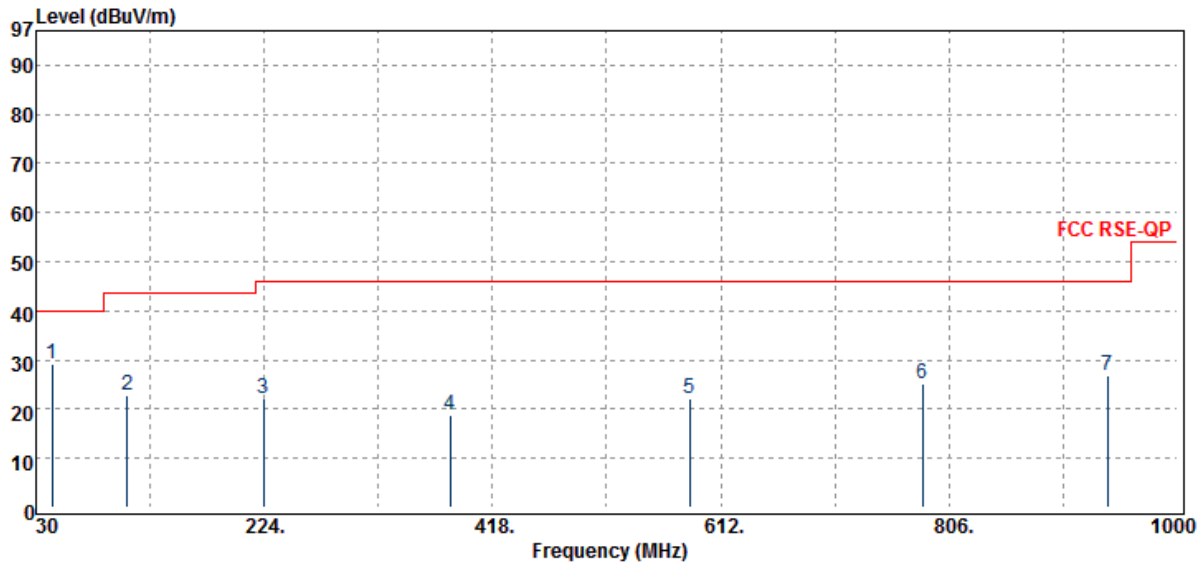
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Operation Band :802.11 a  
Fundamental Frequency :5220 MHz  
Operation Mode :TX MID  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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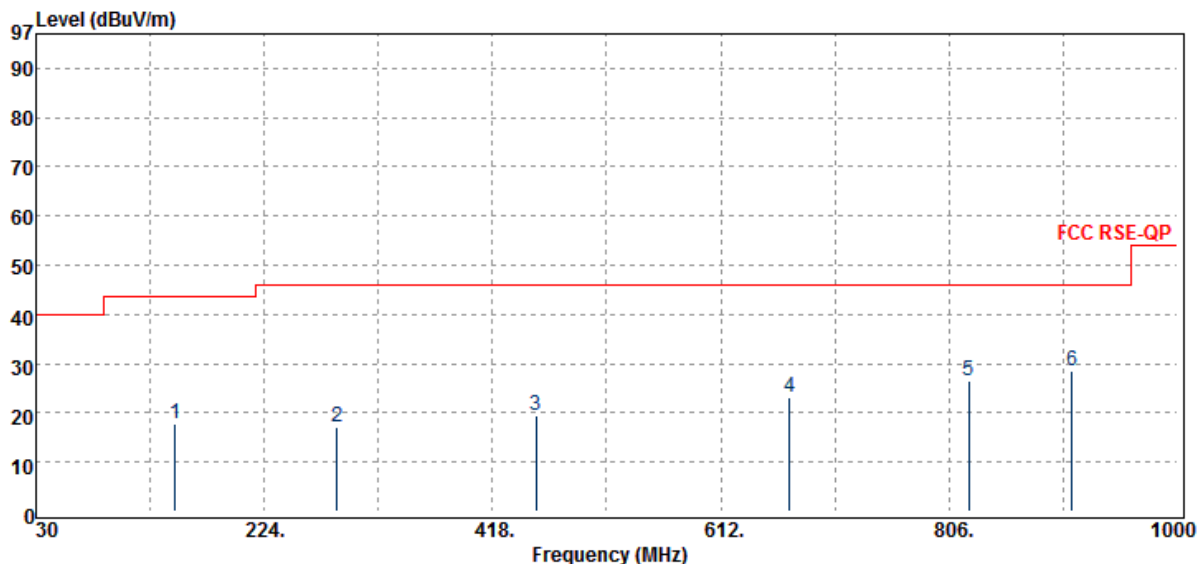
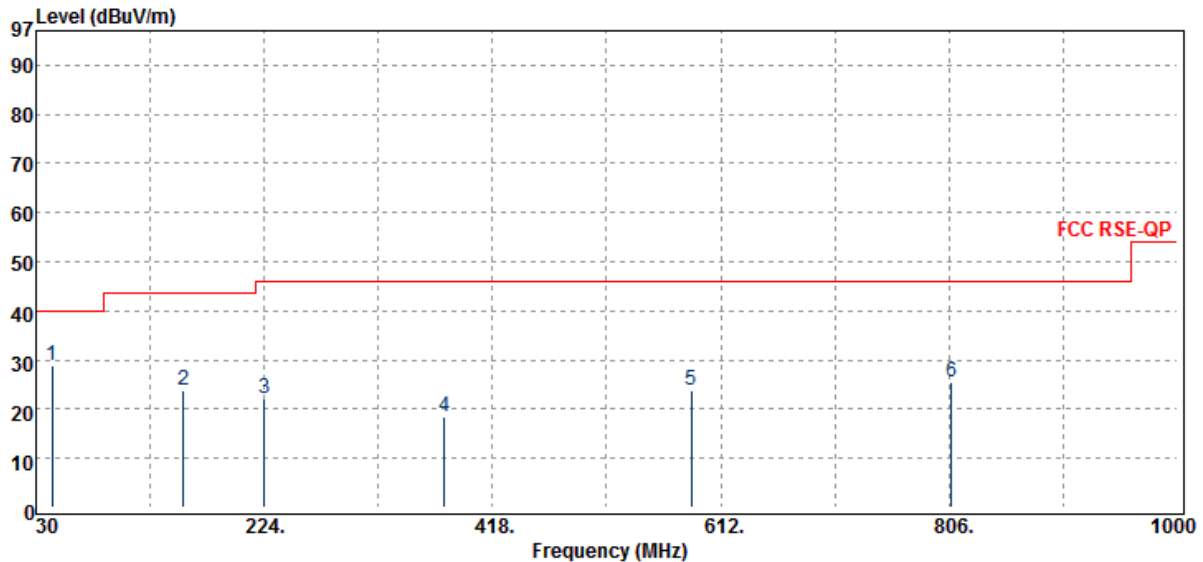
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|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5240 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH  | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane | Measurement Antenna Pol. | :Ver. / Hor.      |



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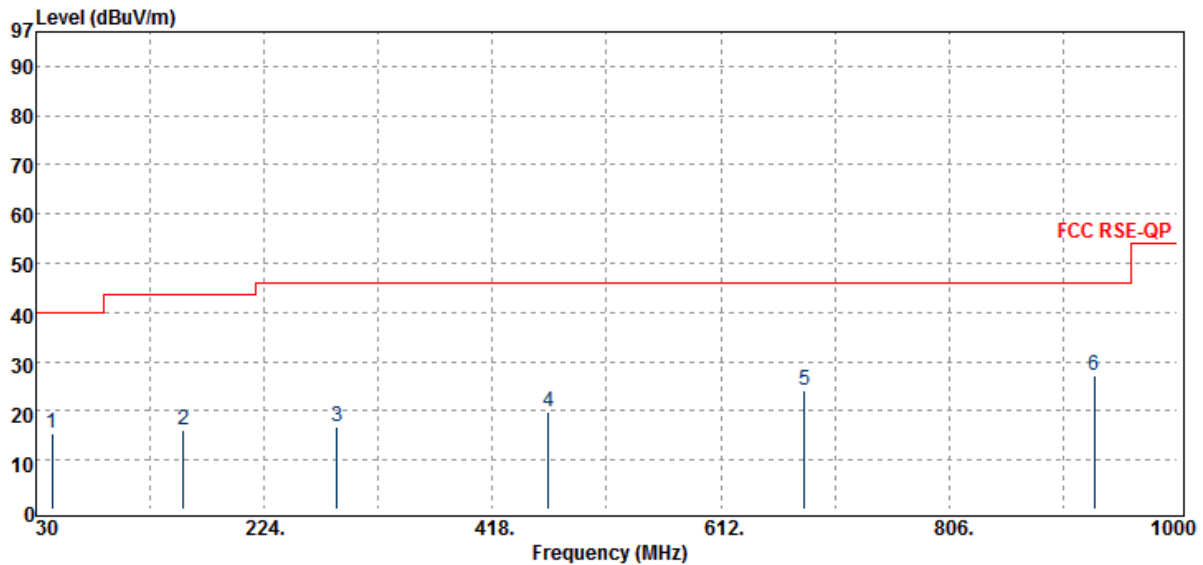
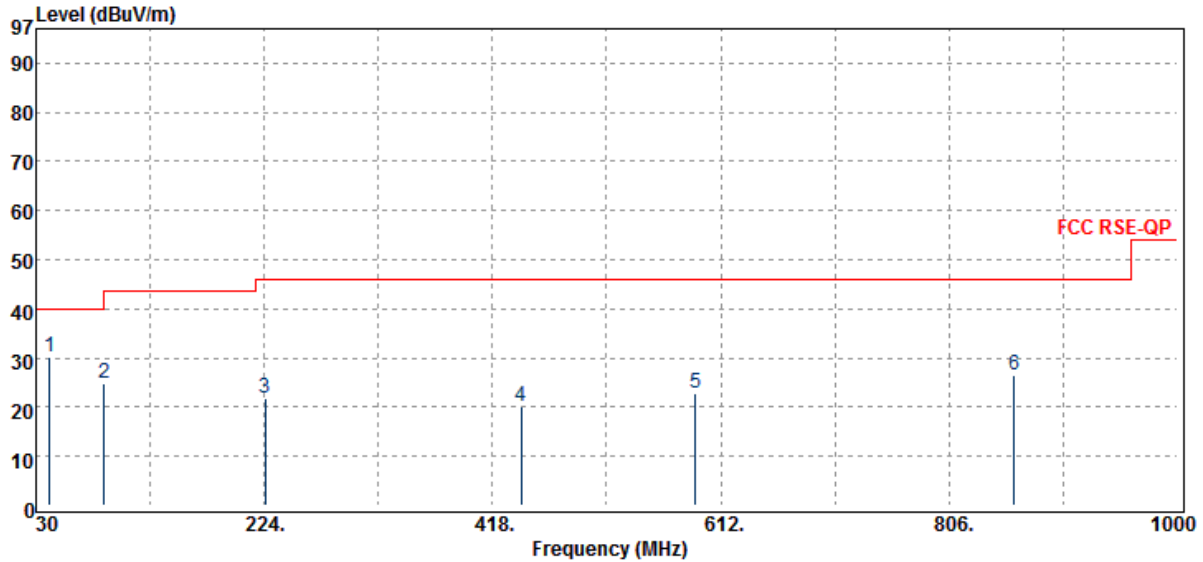
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## 802.11a 5250-5350MHz

Operation Band :802.11 a  
Fundamental Frequency :5260 MHz  
Operation Mode :TX LOW  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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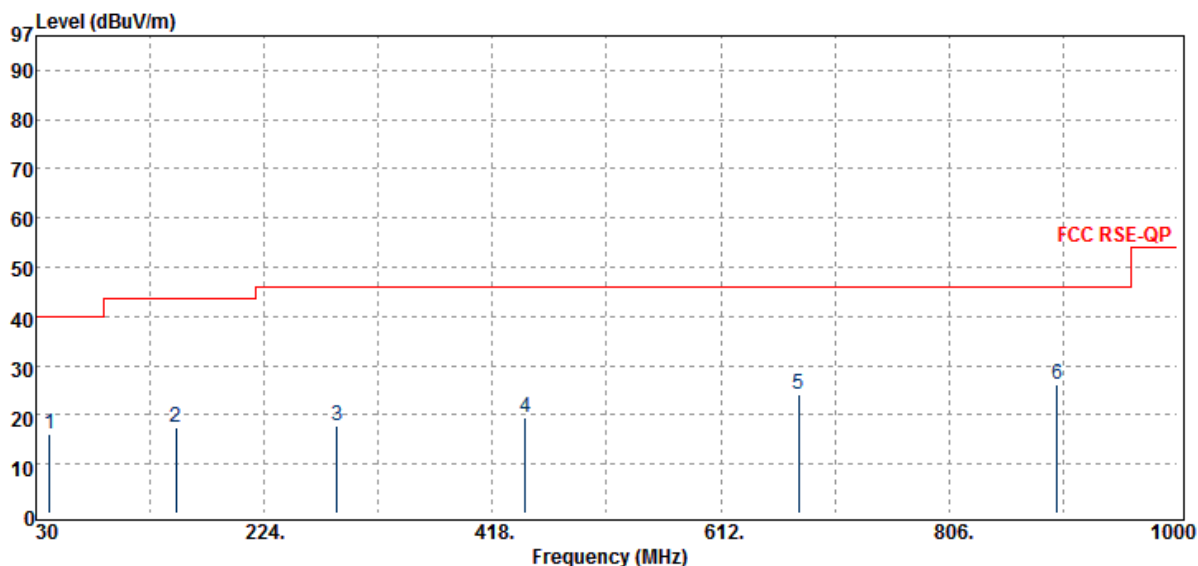
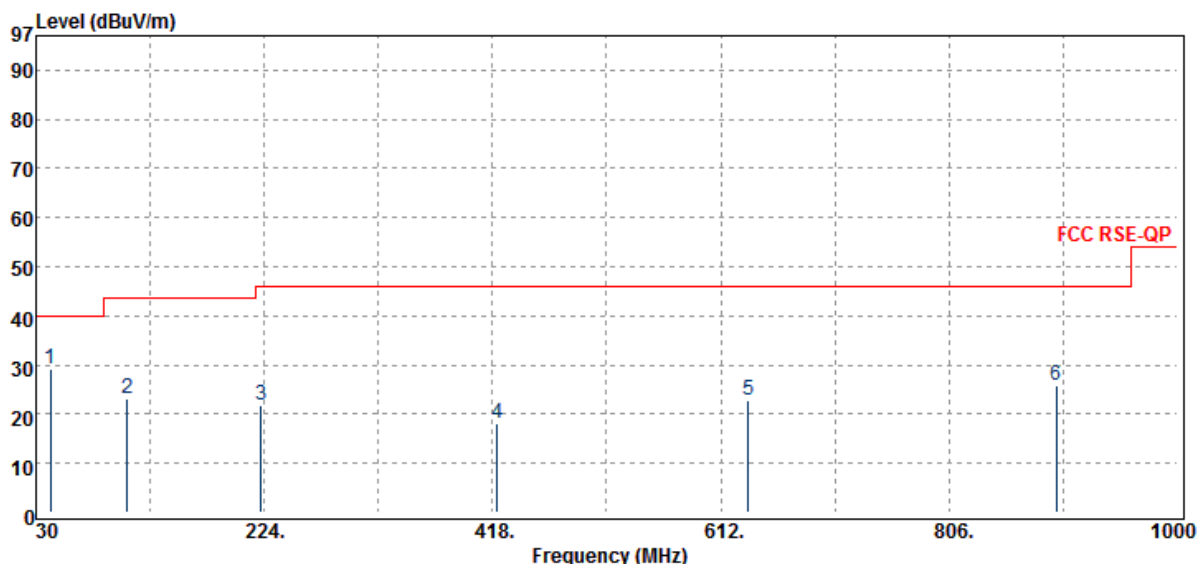
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Operation Band :802.11 a  
Fundamental Frequency :5300 MHz  
Operation Mode :TX MID  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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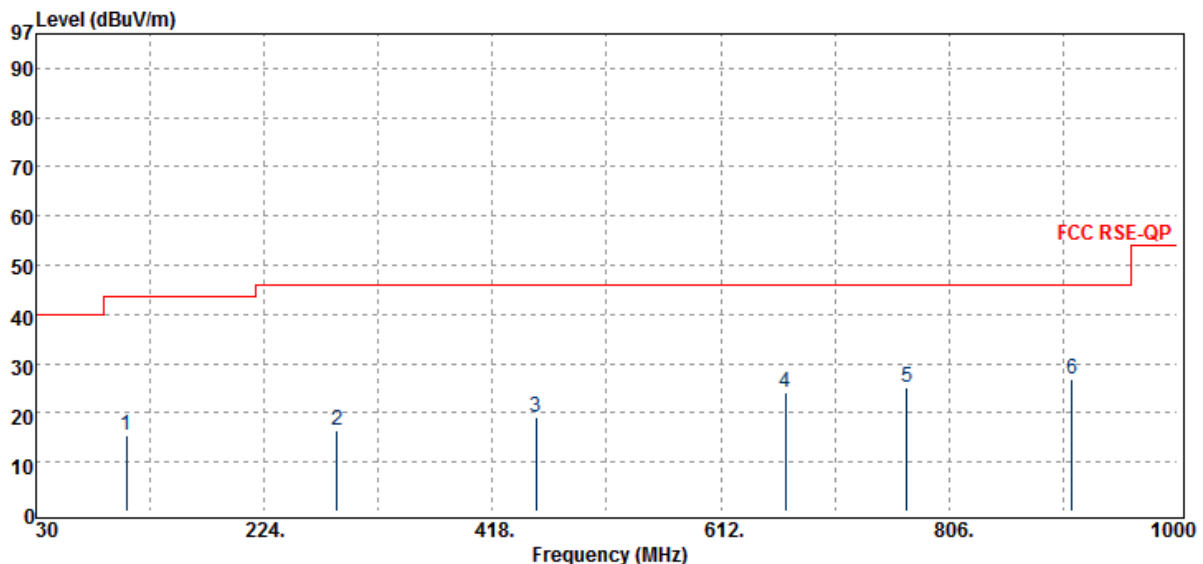
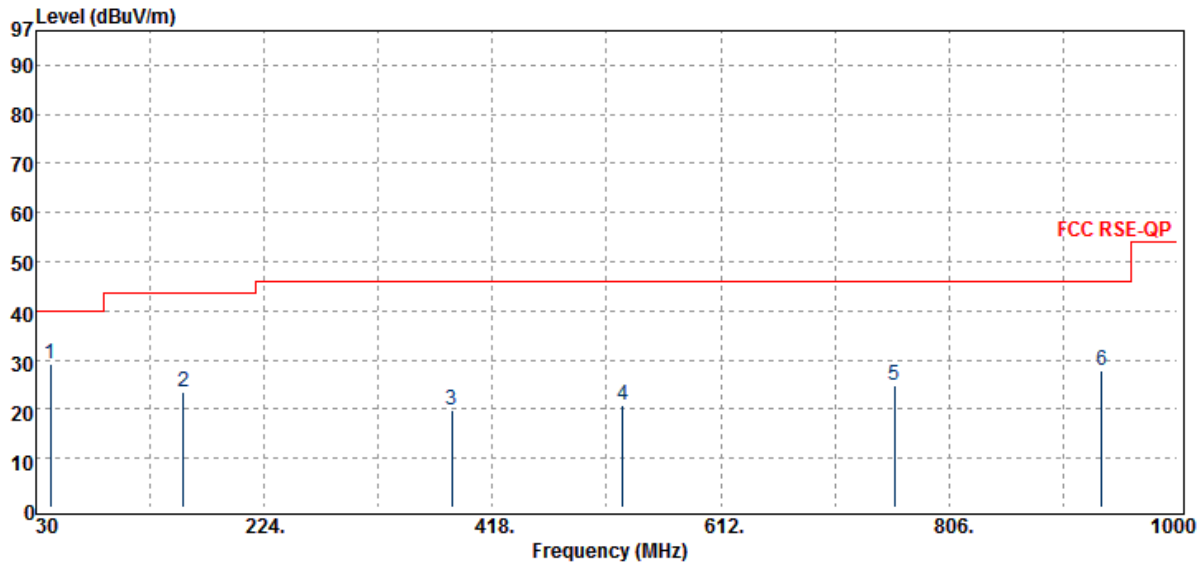
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|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5320 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH  | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane | Measurement Antenna Pol. | :Ver. / Hor.      |



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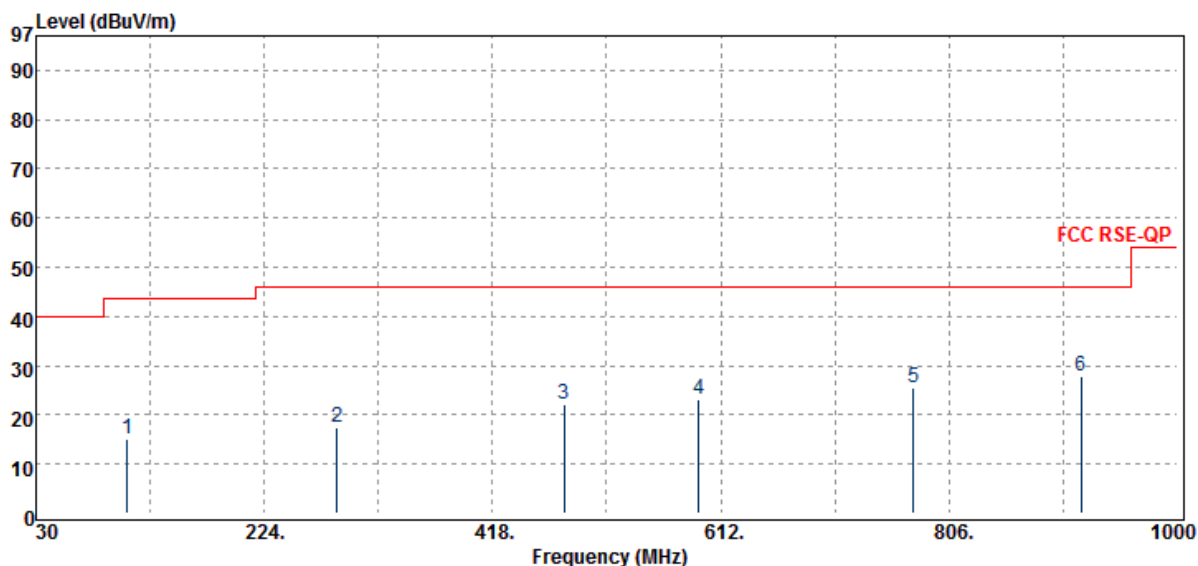
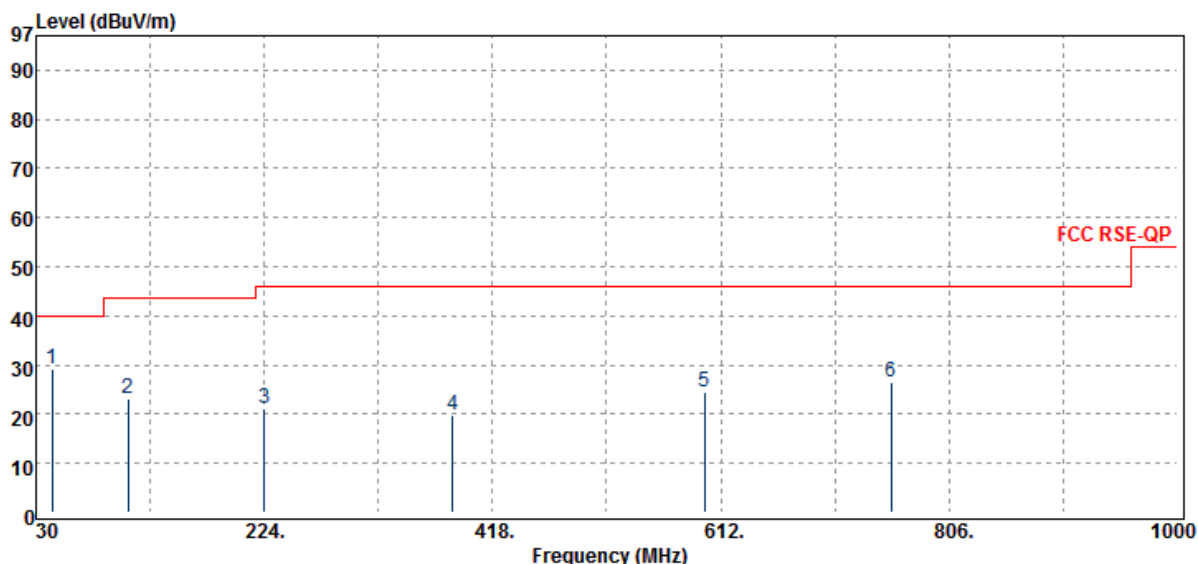
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## 802.11a 5470-5725MHz

Operation Band :802.11 a  
Fundamental Frequency :5500 MHz  
Operation Mode :TX LOW  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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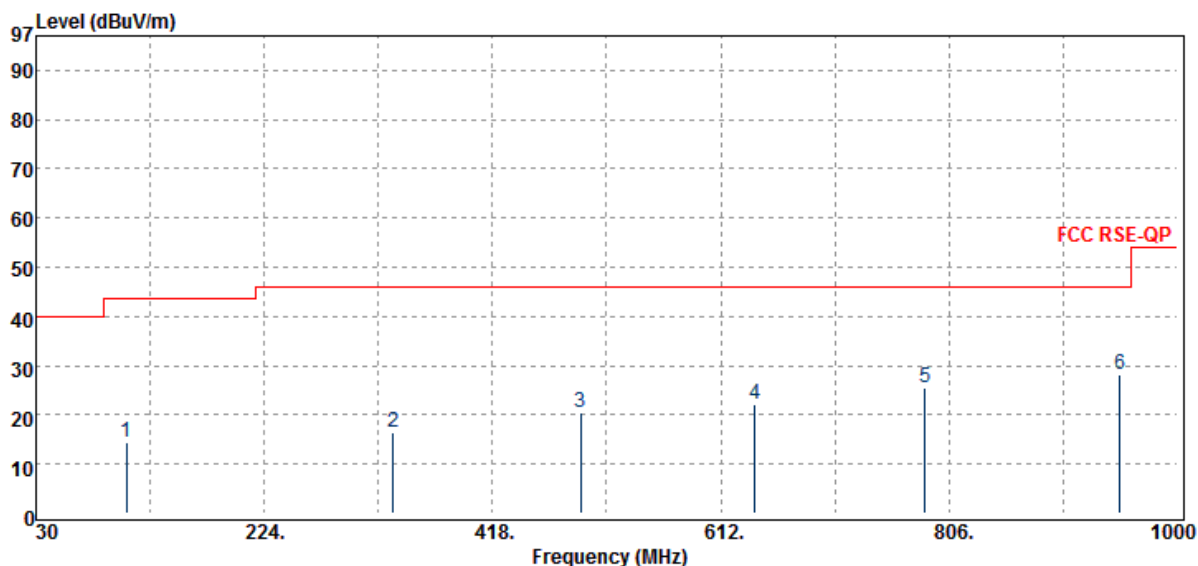
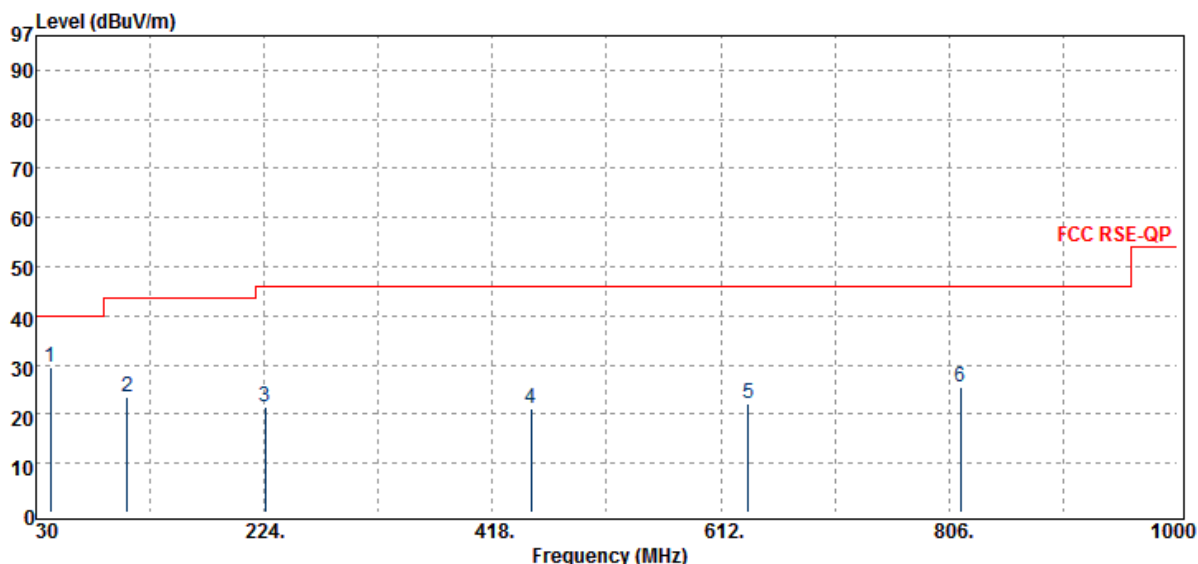
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Operation Band :802.11 a  
Fundamental Frequency :5580 MHz  
Operation Mode :TX MID  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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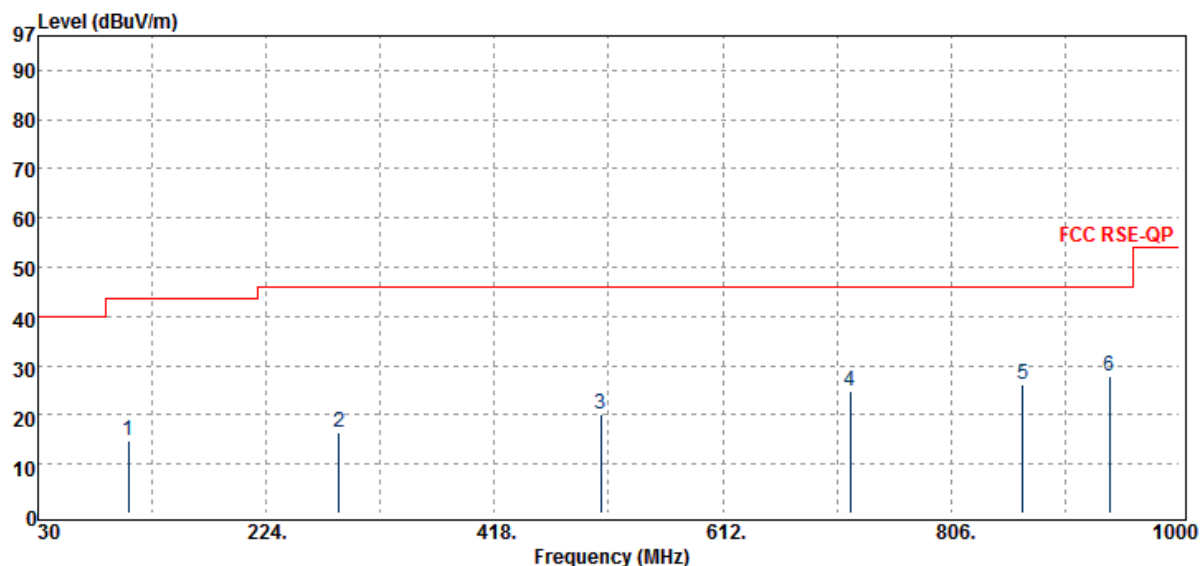
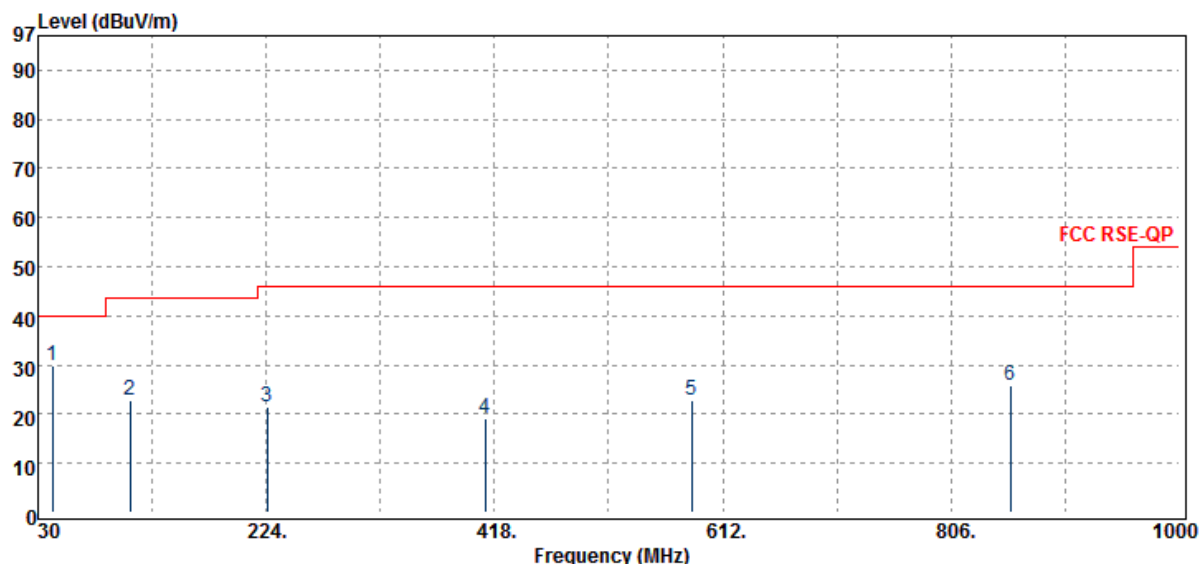
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|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5700 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH  | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane | Measurement Antenna Pol. | :Ver. / Hor.      |



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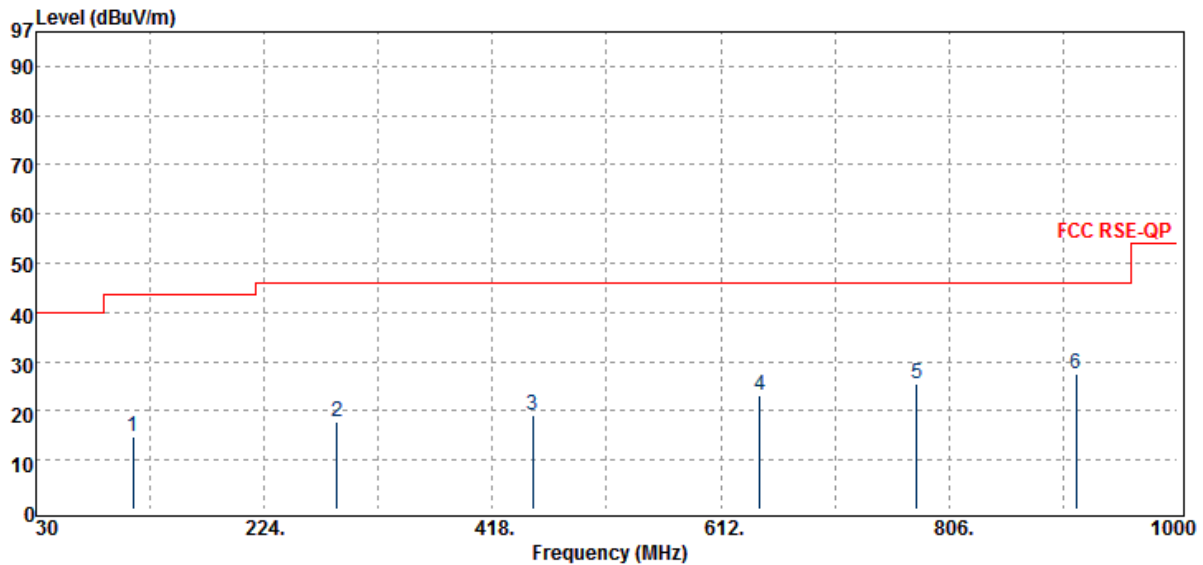
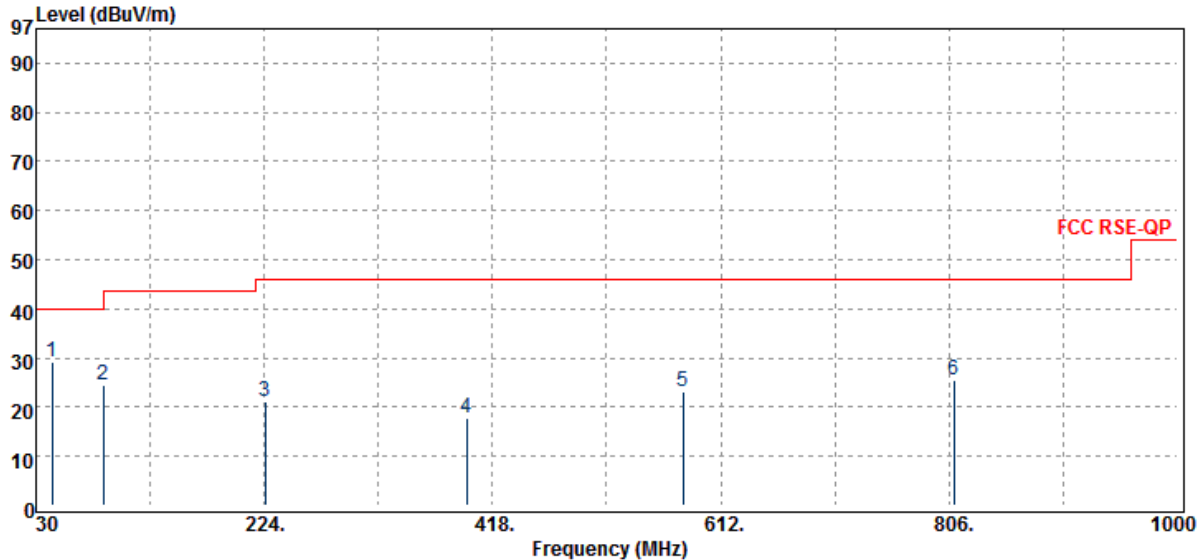
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## 802.11a 5725-5850MHz

Operation Band :802.11 a  
Fundamental Frequency :5745 MHz  
Operation Mode :TX LOW  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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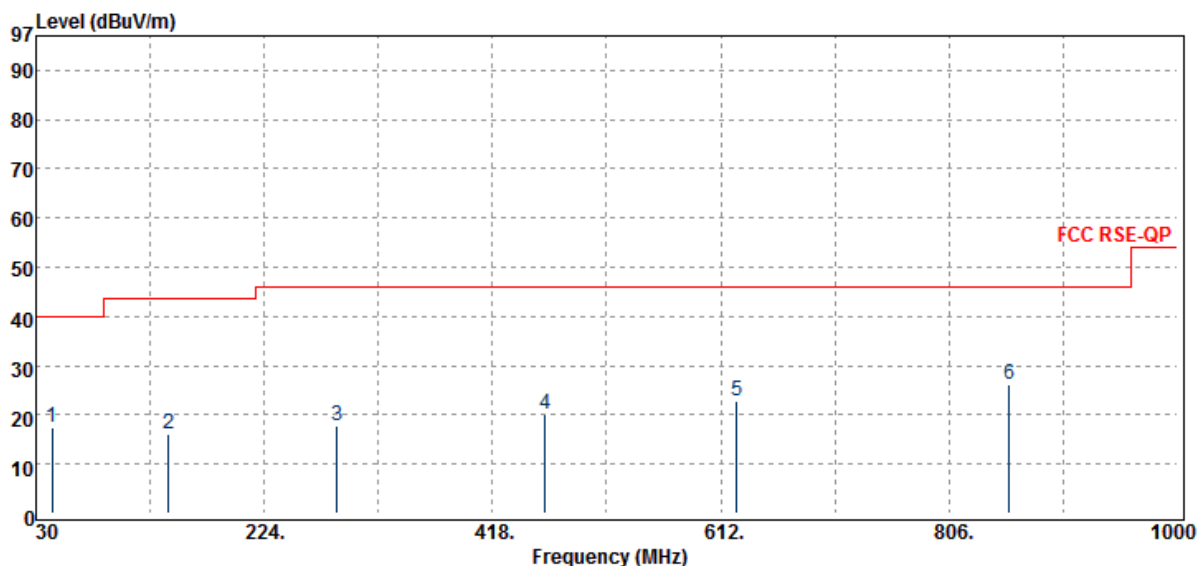
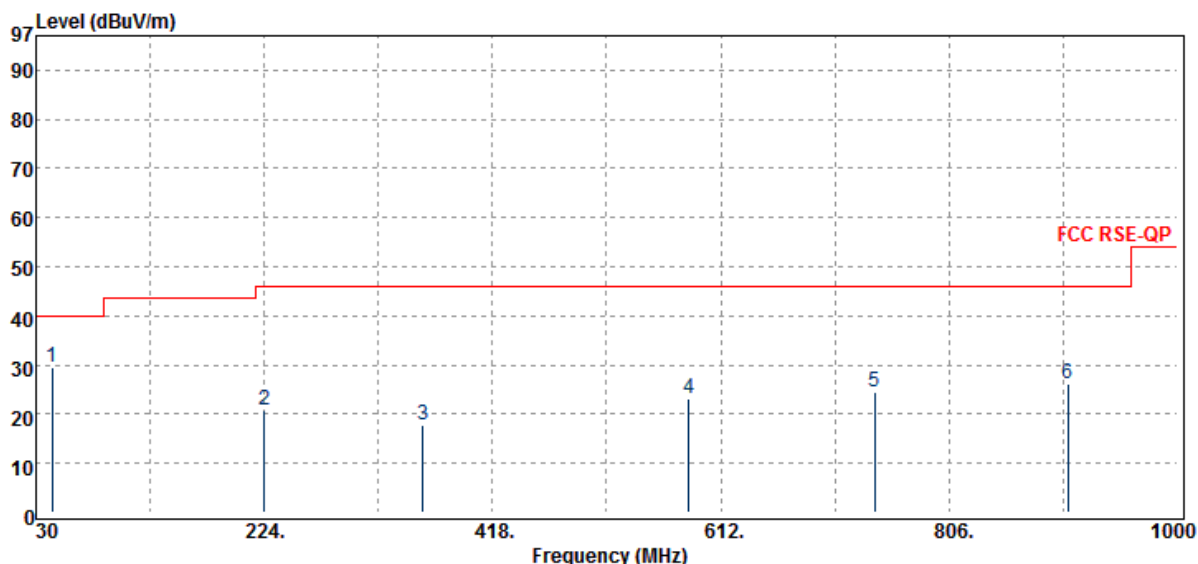
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Operation Band :802.11 a  
Fundamental Frequency :5785 MHz  
Operation Mode :TX MID  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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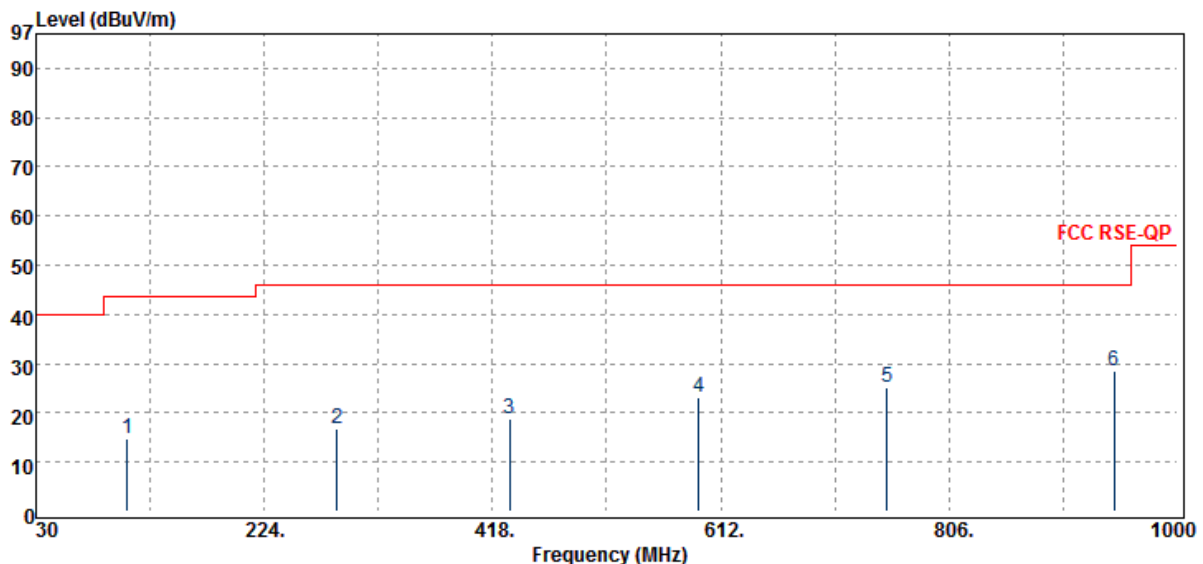
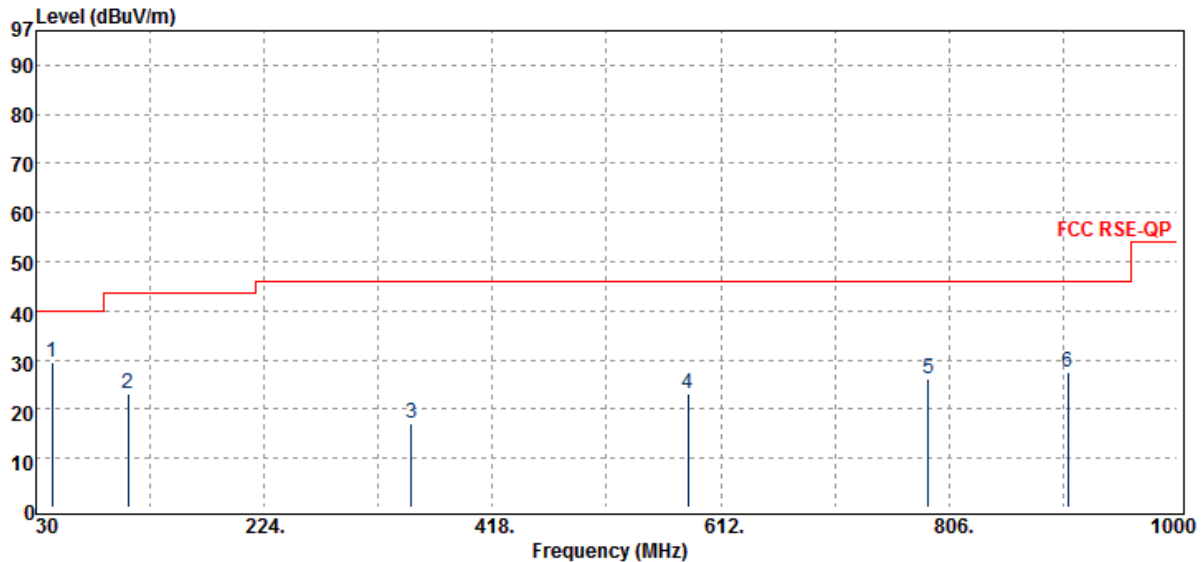
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|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5825 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH  | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane | Measurement Antenna Pol. | :Ver. / Hor.      |



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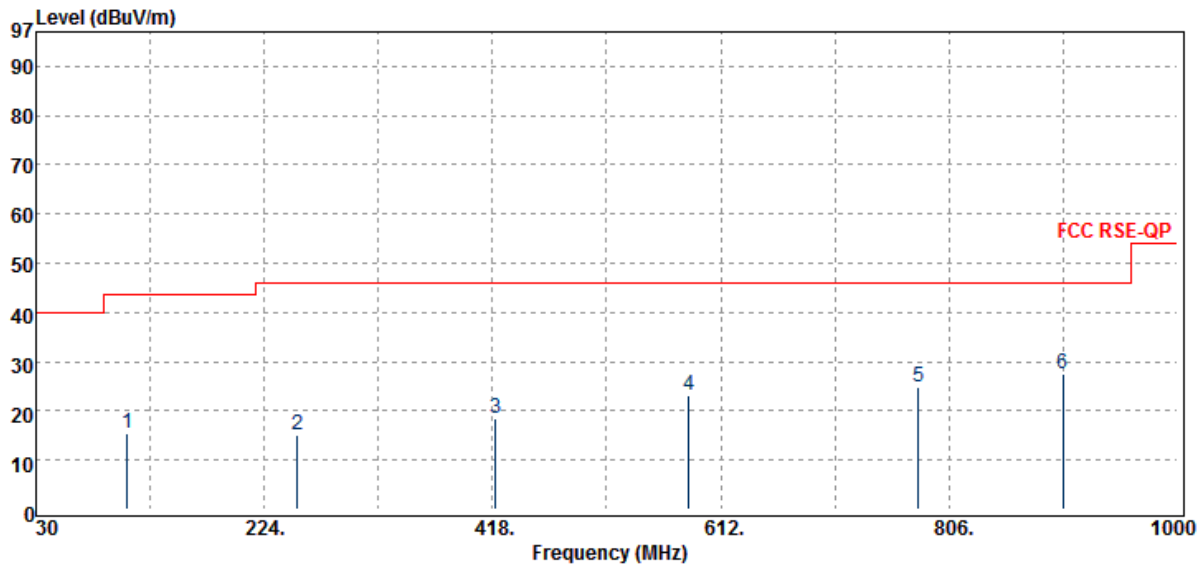
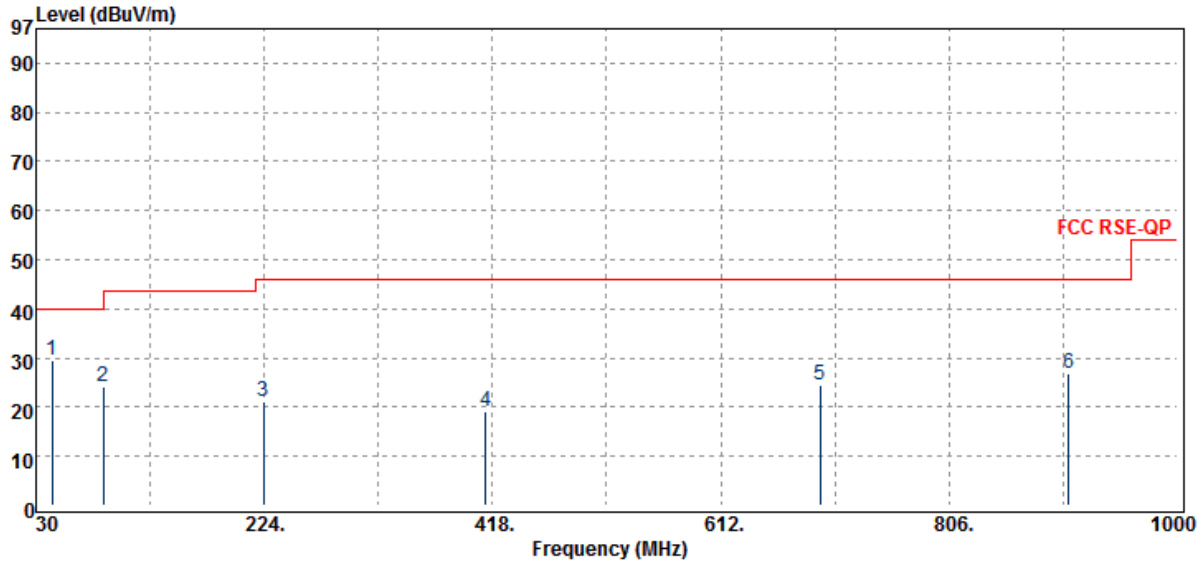
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## 802.11n\_20M 5150-5250MHz

Operation Band :802.11 n20M  
Fundamental Frequency :5180 MHz  
Operation Mode :TX LOW  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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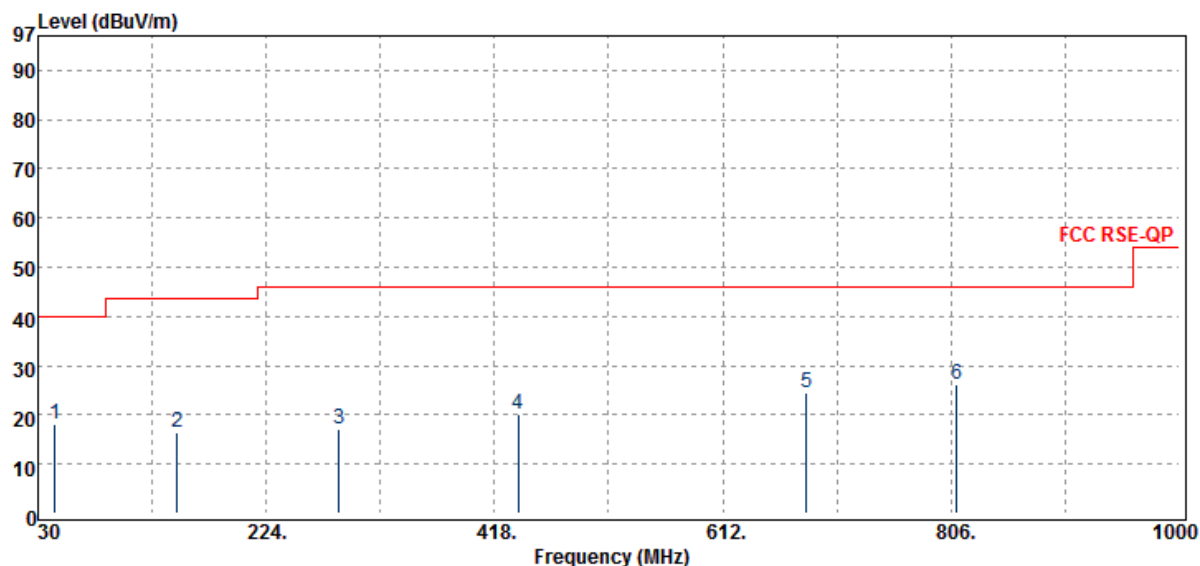
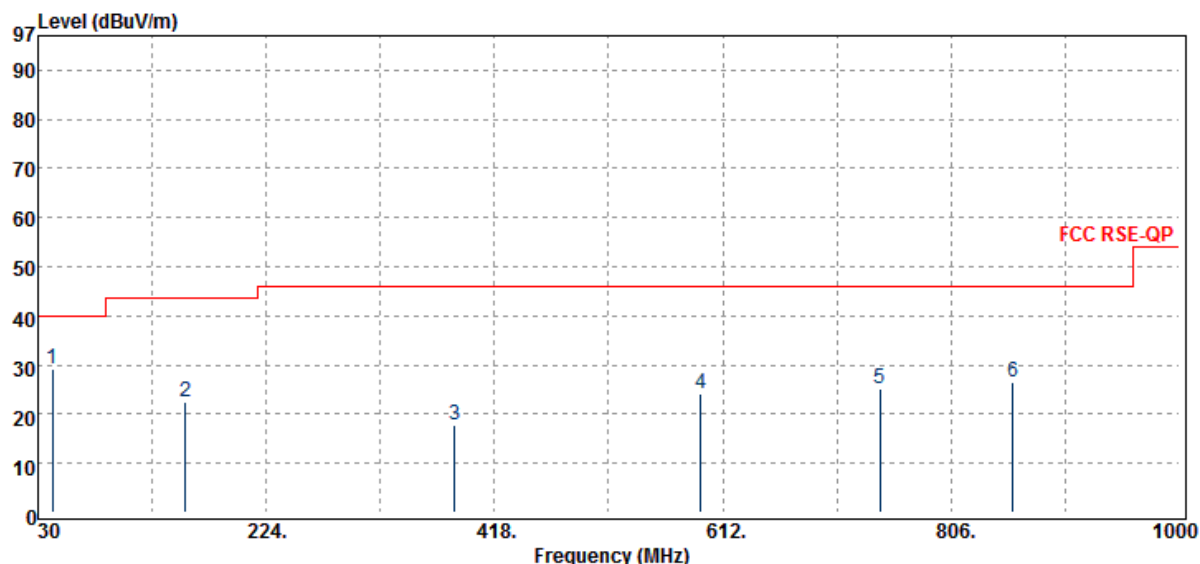
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Operation Band :802.11 n20M  
Fundamental Frequency :5220 MHz  
Operation Mode :TX MID  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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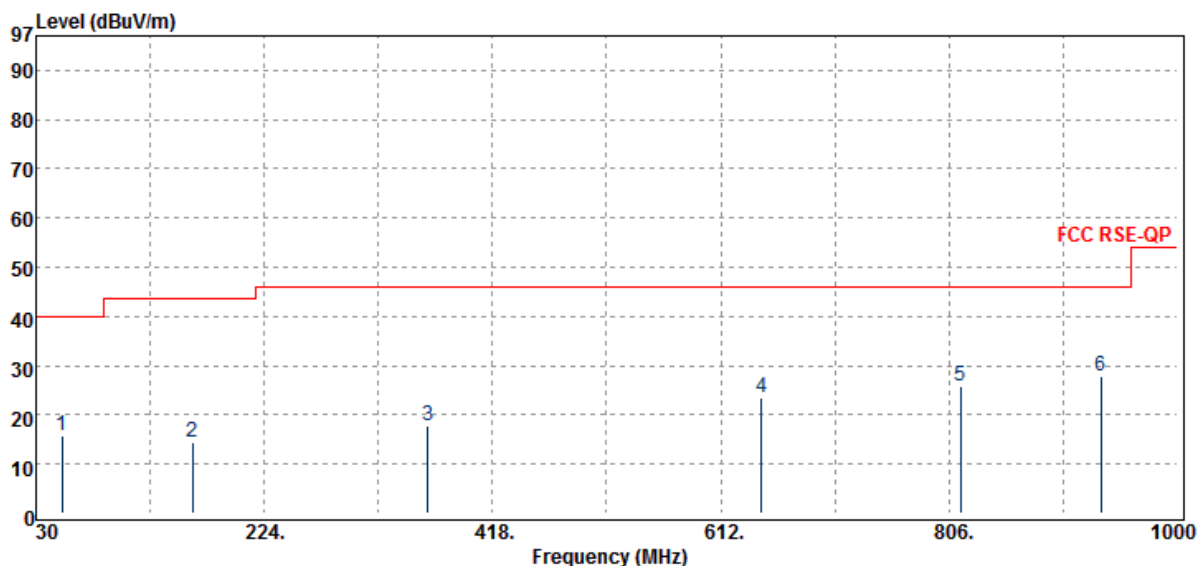
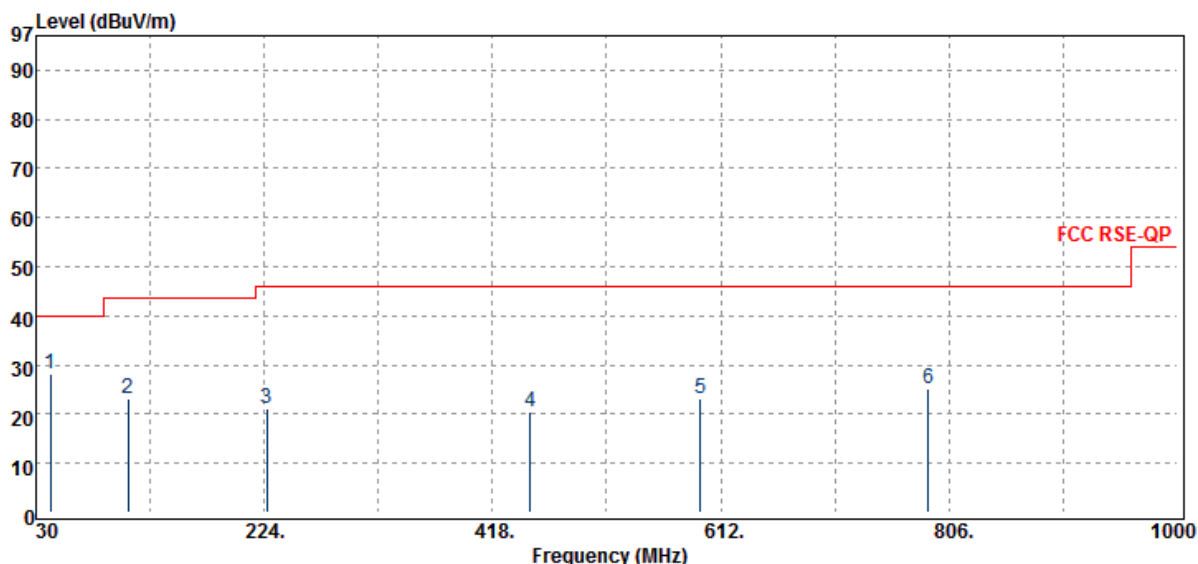
f (886-2) 2298-0488

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Operation Band :802.11 n20M  
Fundamental Frequency :5240 MHz  
Operation Mode :TX HIGH  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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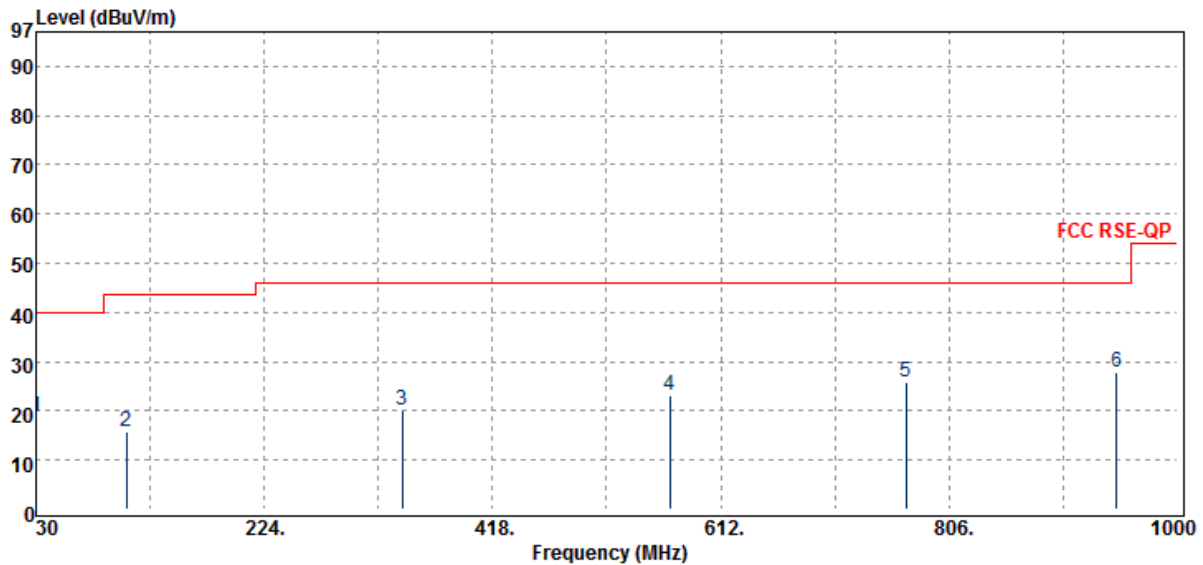
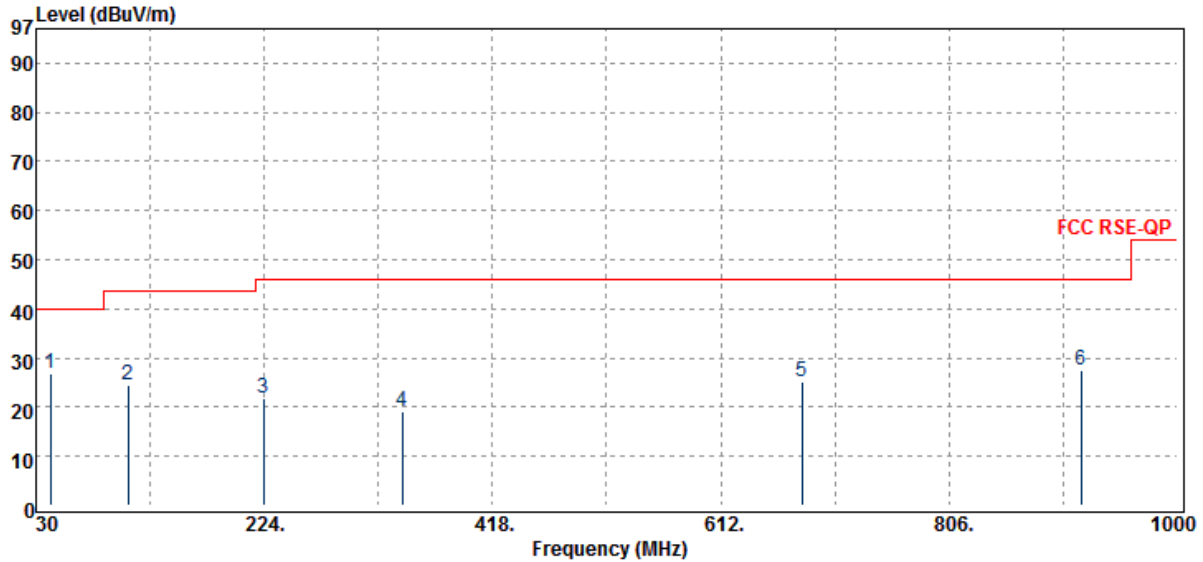
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## 802.11n\_20M 5250-5350MHz

Operation Band :802.11 n20M  
Fundamental Frequency :5260 MHz  
Operation Mode :TX LOW  
EUT Pol. :E1 Plan

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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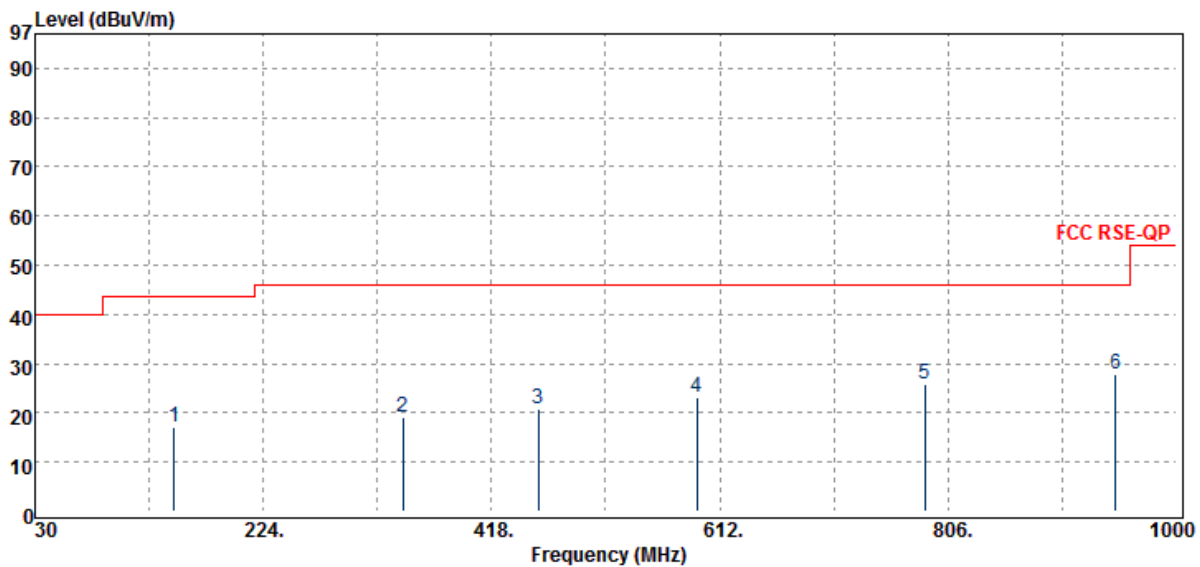
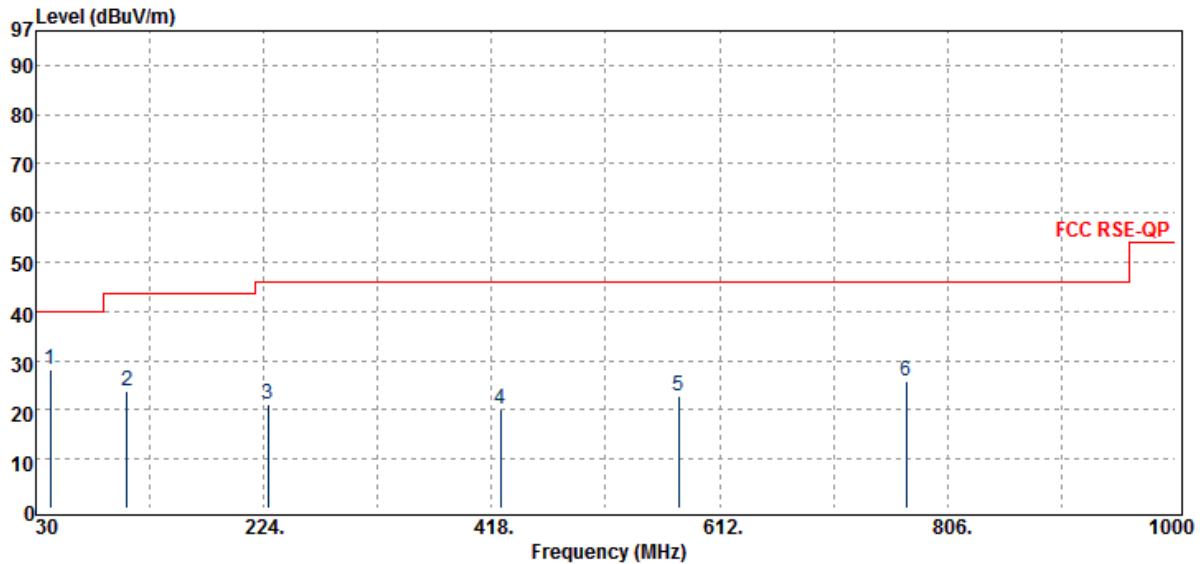
f (886-2) 2298-0488

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Operation Band :802.11 n20M  
Fundamental Frequency :5300 MHz  
Operation Mode :TX MID  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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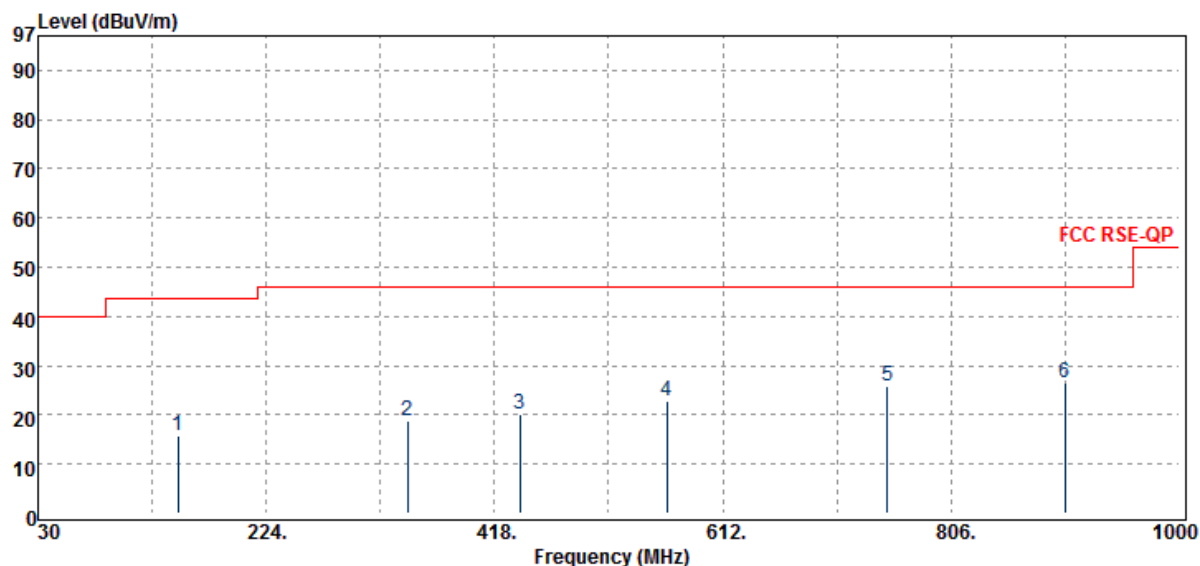
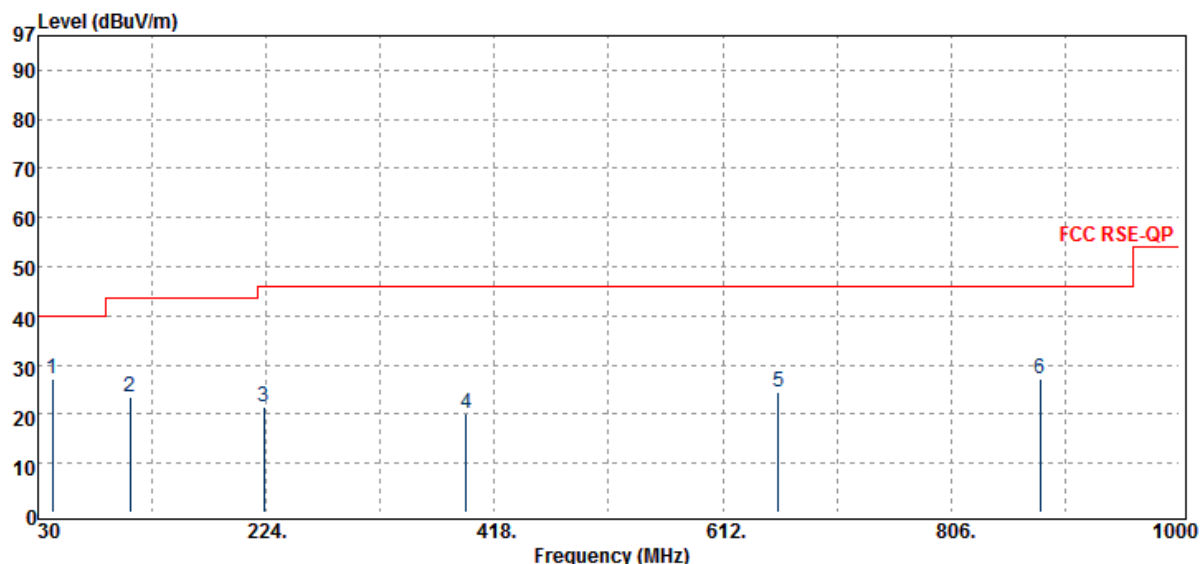
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Operation Band :802.11 n20M  
Fundamental Frequency :5320 MHz  
Operation Mode :TX HIGH  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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# 802.11n\_20M 5470-5725MHz

Operation Band :802.11 n20M

Fundamental Frequency :5500 MHz

Operation Mode :TX LOW

EUT Pol. :E1 Plane

Test Date

:2014-11-18

Temp./Humi.

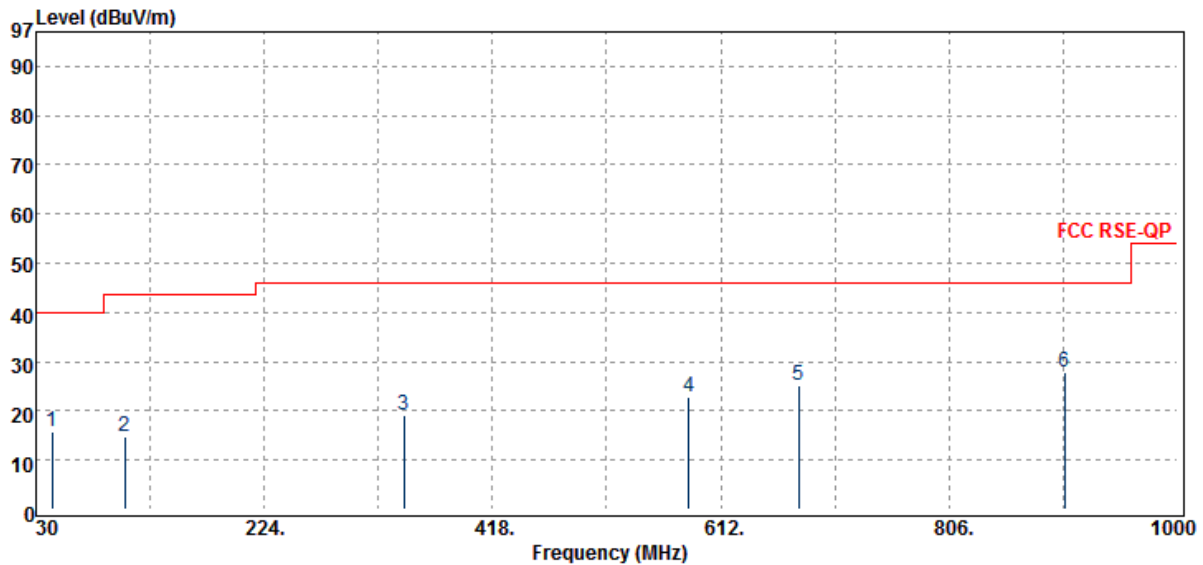
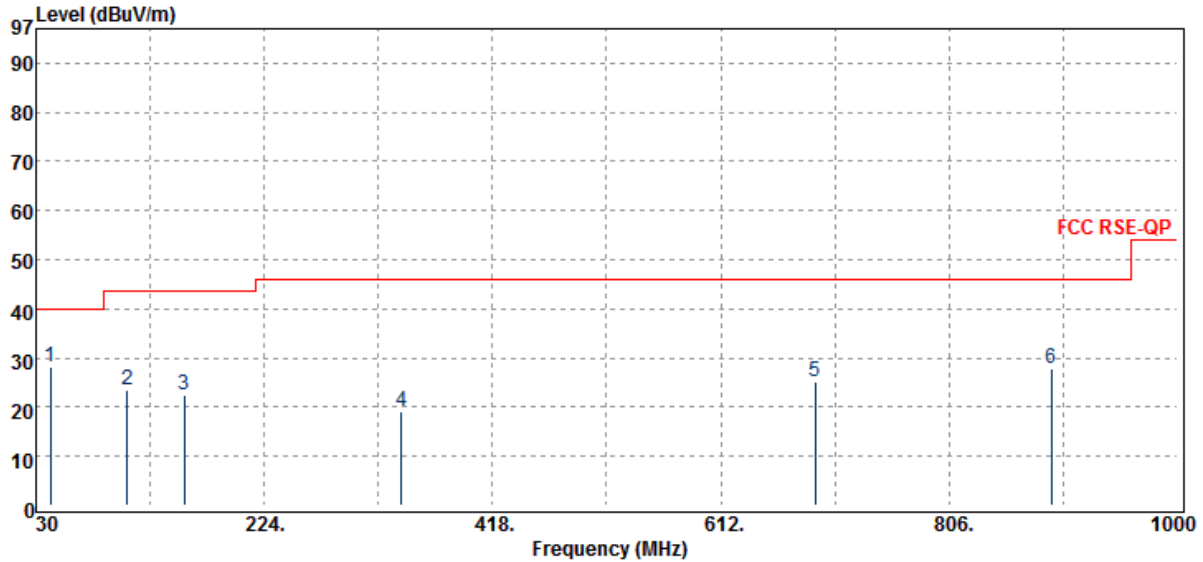
:23 deg\_C / 58 RH

Engineer

:Curry

Measurement Antenna Pol.

:Ver. / Hor.



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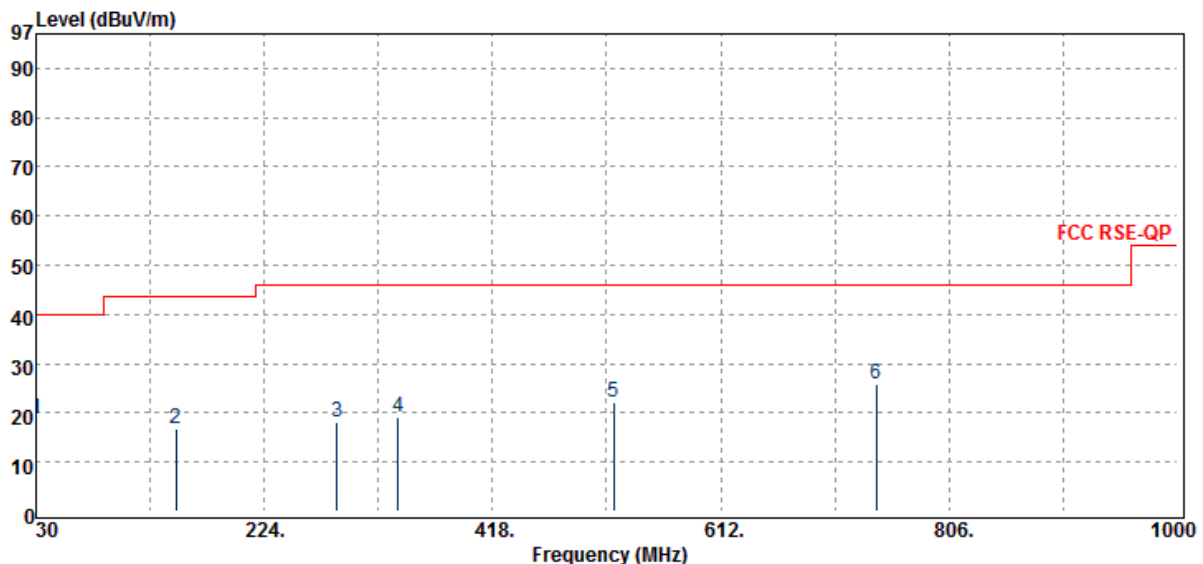
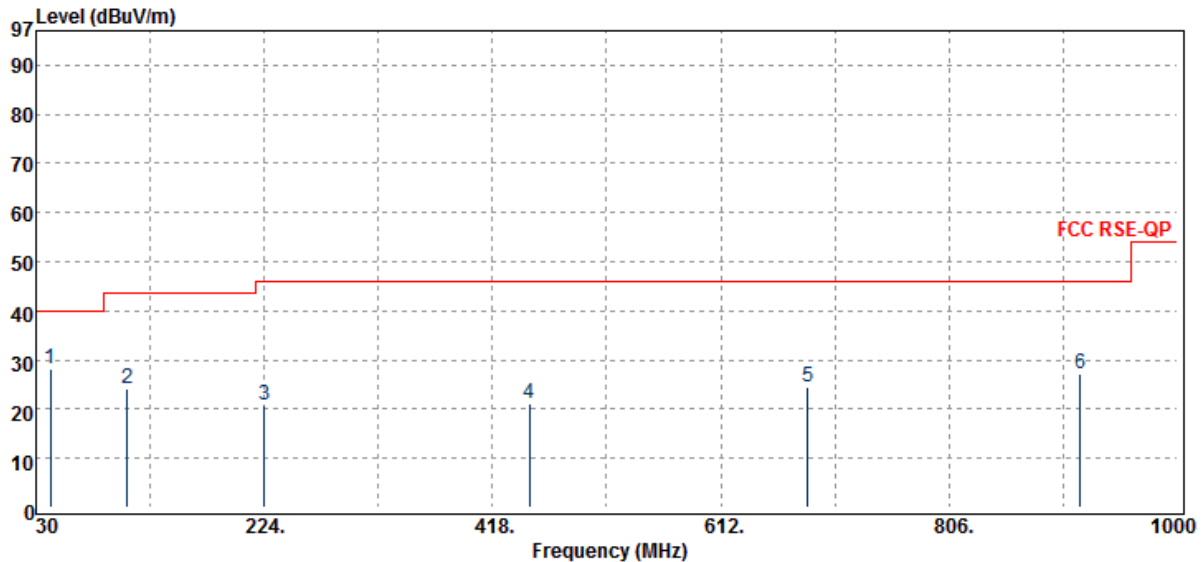
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Operation Band :802.11 n20M  
Fundamental Frequency :5580 MHz  
Operation Mode :TX MID  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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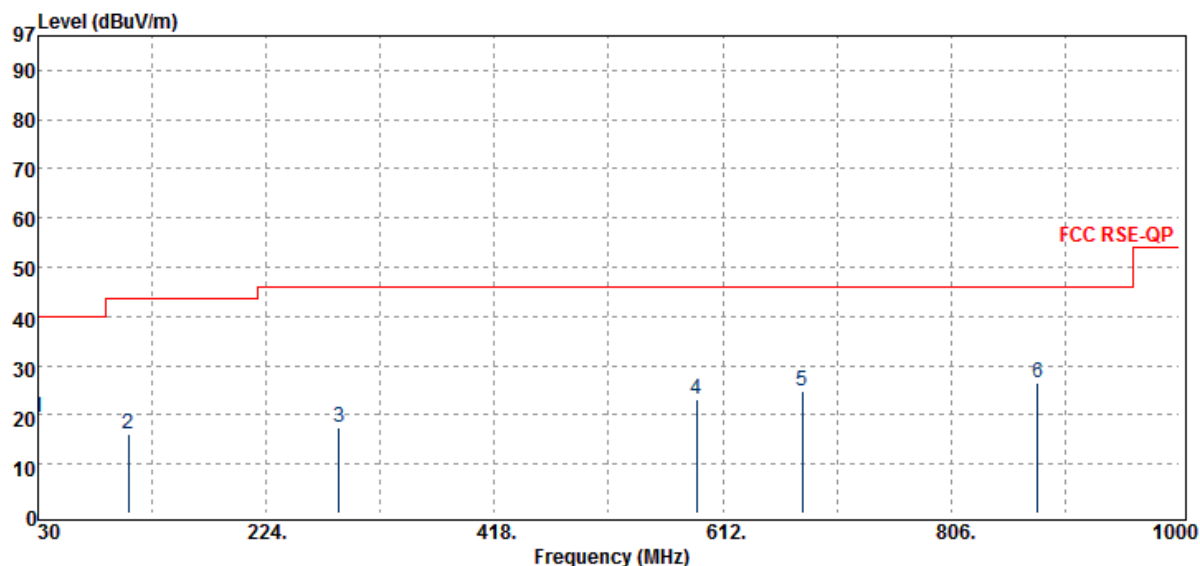
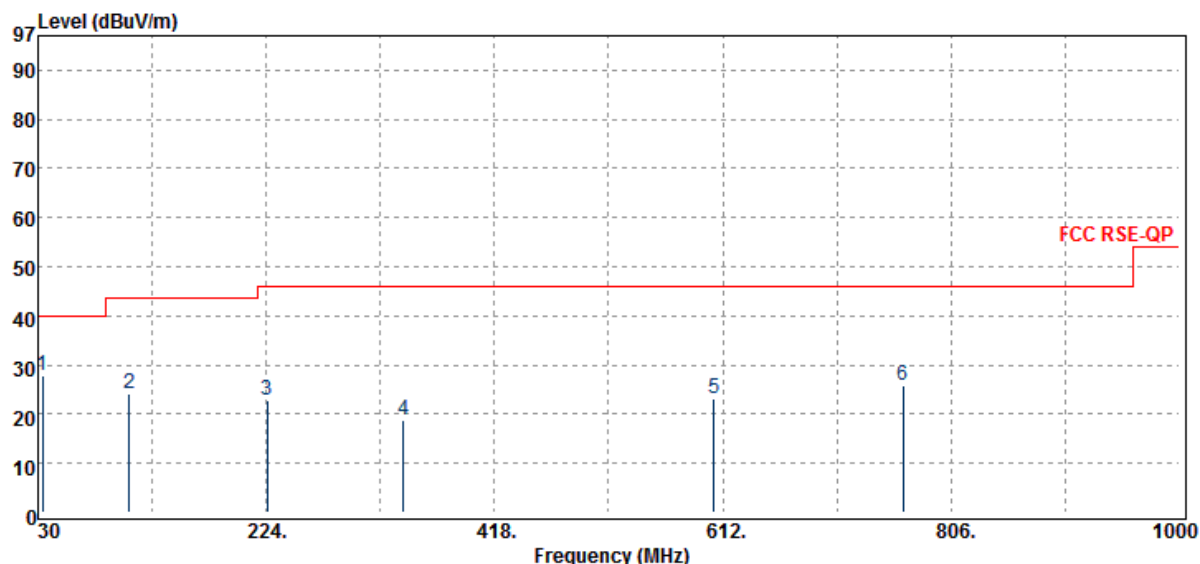
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Operation Band :802.11 n20M  
Fundamental Frequency :5700 MHz  
Operation Mode :TX HIGH  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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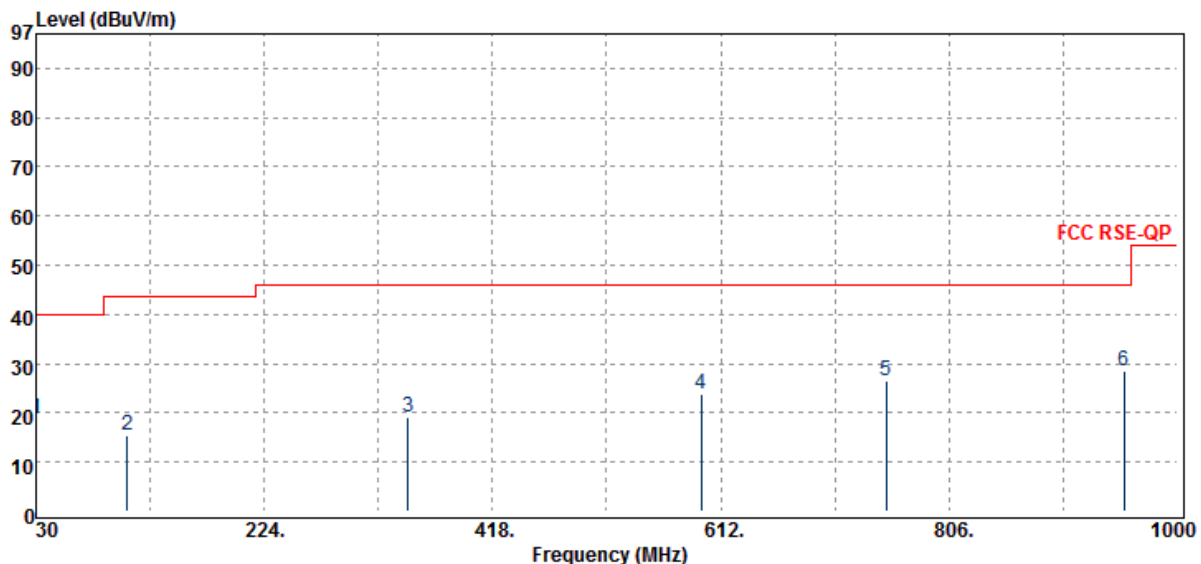
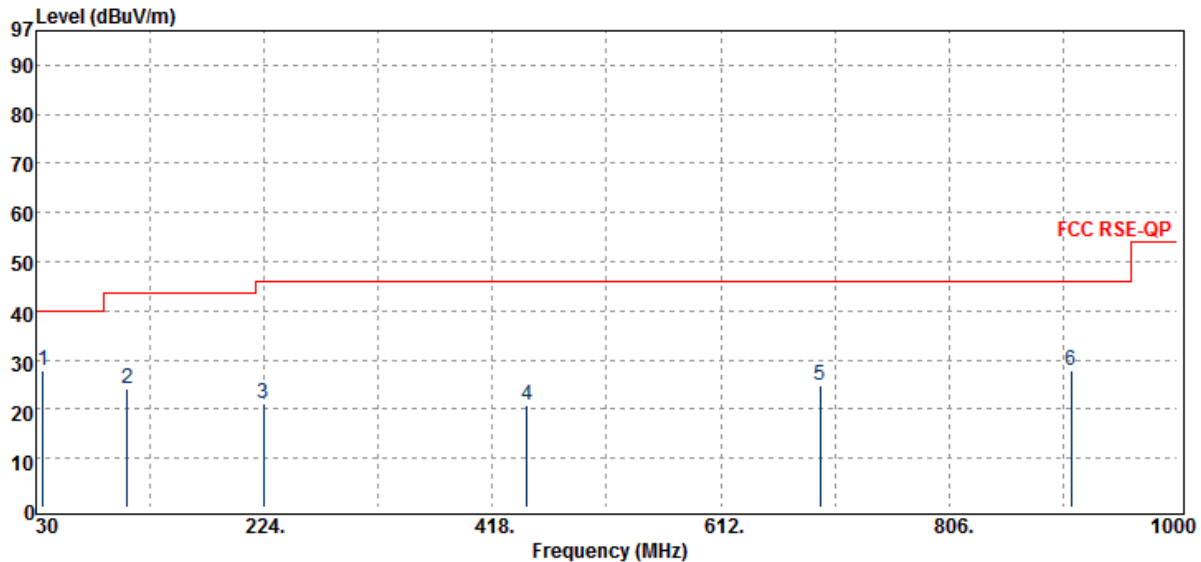
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**802.11n\_20M 5725-5850MHz**

Operation Band :802.11 n20M  
Fundamental Frequency :5745 MHz  
Operation Mode :TX LOW  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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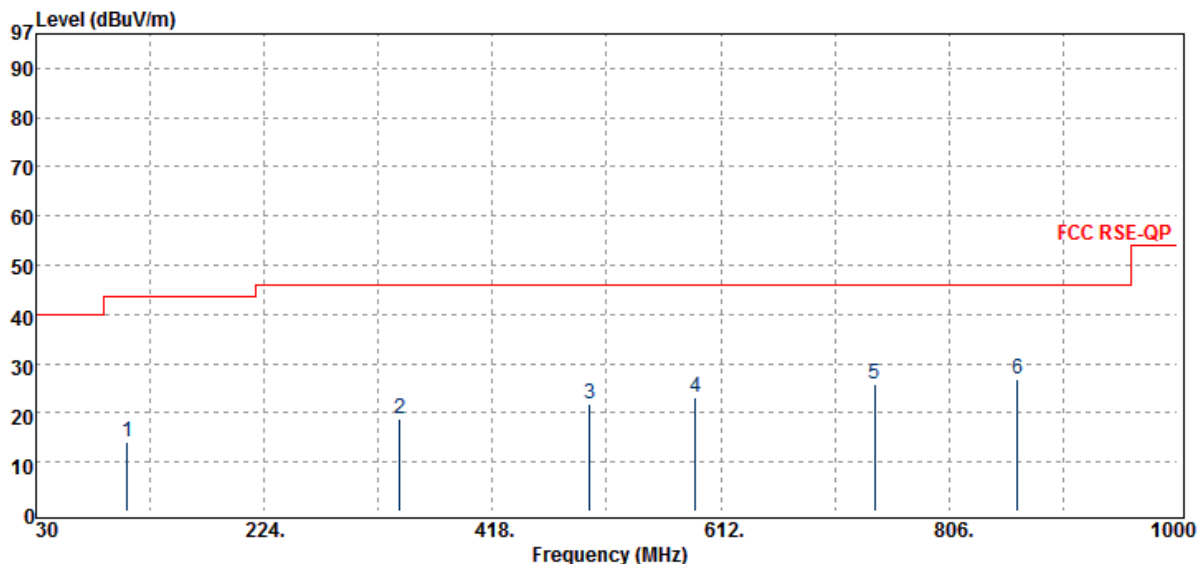
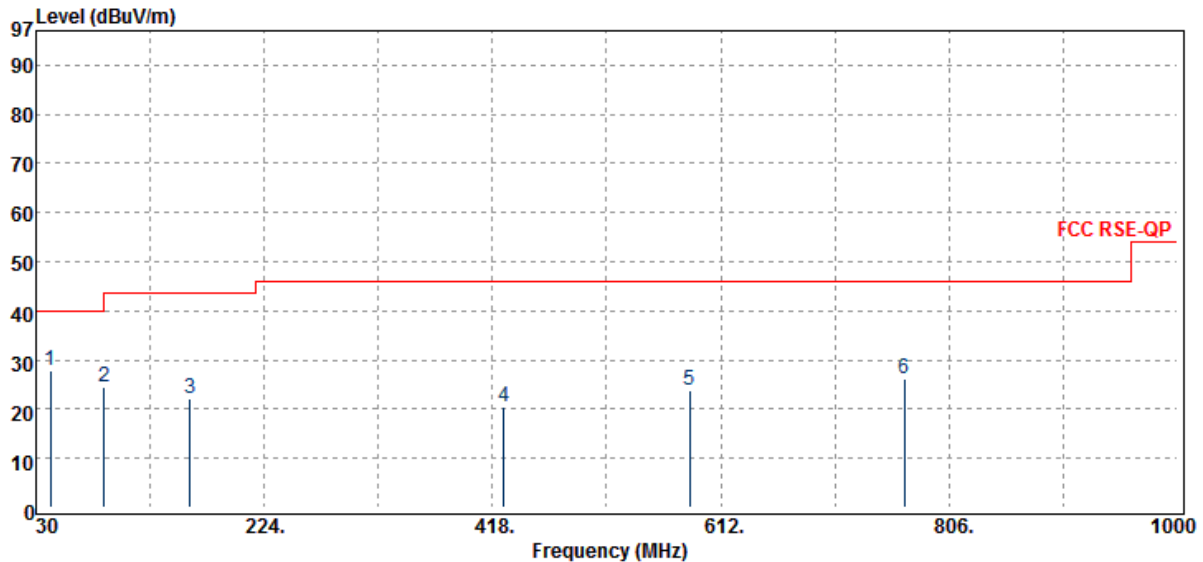
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Operation Band :802.11 n20M  
Fundamental Frequency :5785 MHz  
Operation Mode :TX MID  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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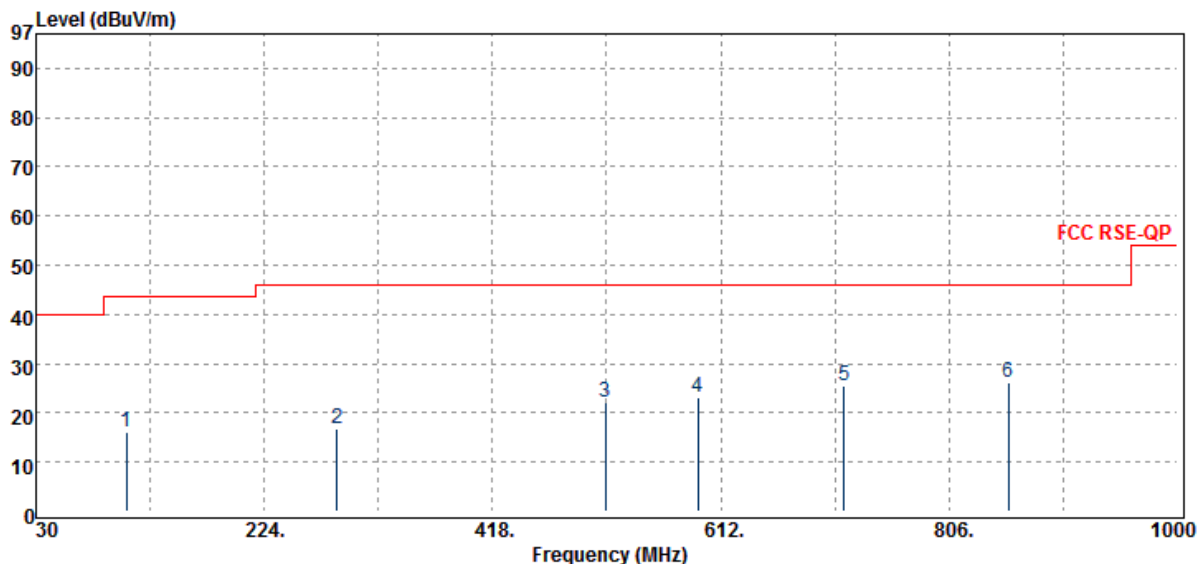
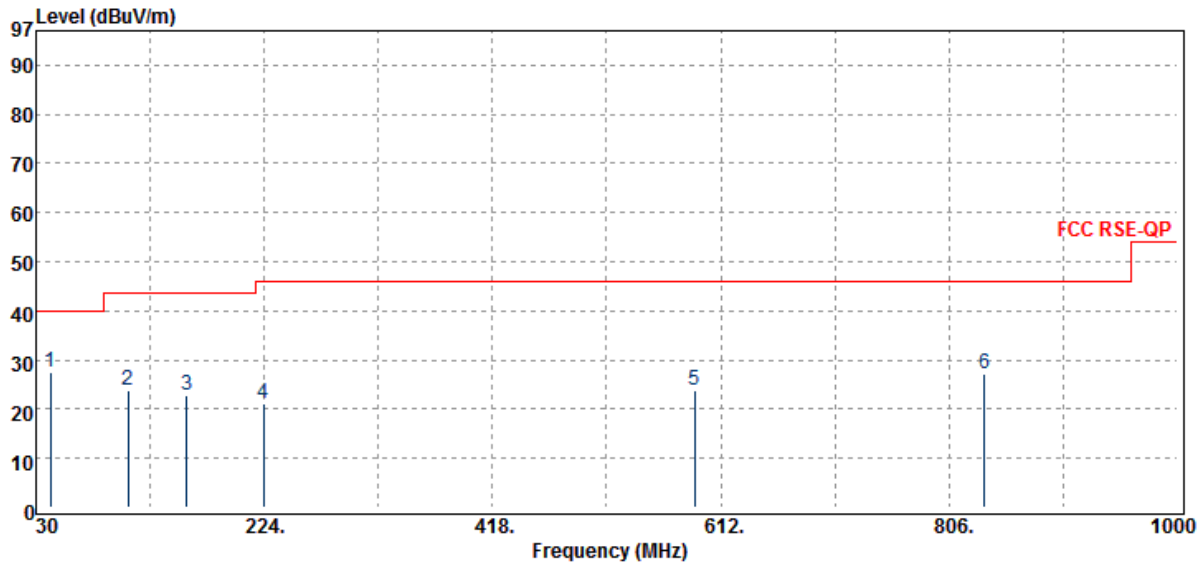
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Operation Band :802.11 n20M  
Fundamental Frequency :5825 MHz  
Operation Mode :TX HIGH  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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# 802.11n\_40M 5150-5250MHz

Operation Band :802.11 n40M

Fundamental Frequency :5190 MHz

Operation Mode :TX LOW

EUT Pol. :E1 Plane

Test Date

:2014-11-18

Temp./Humi.

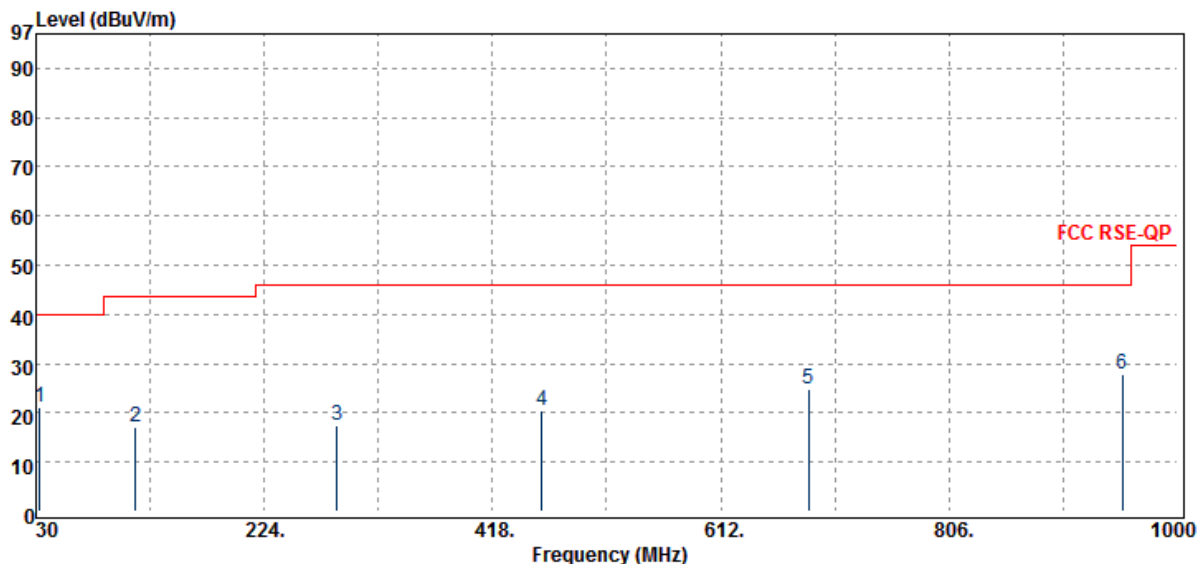
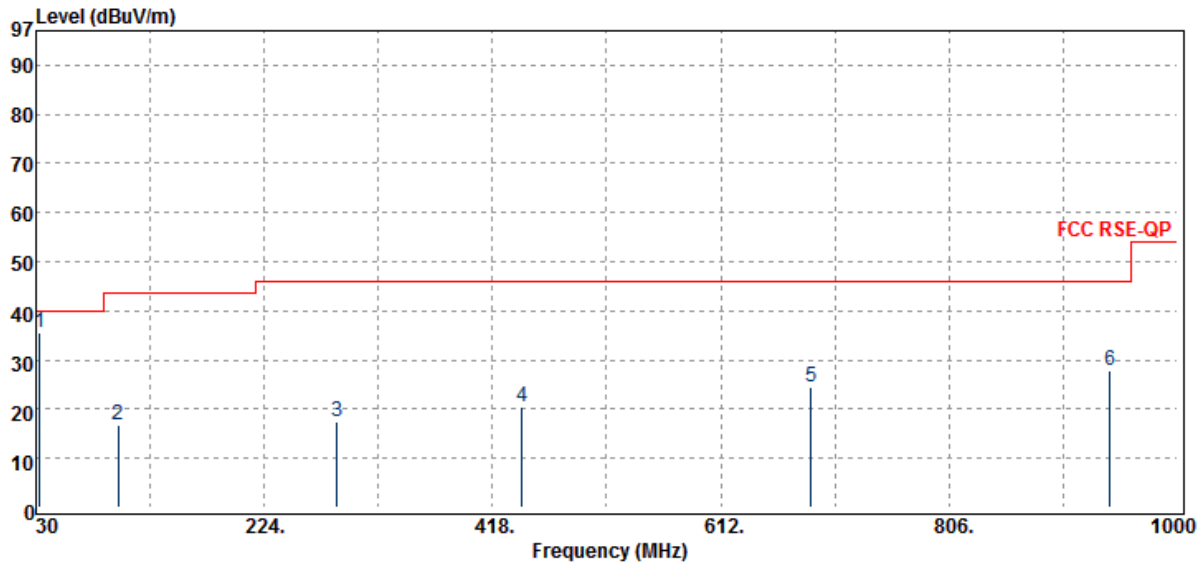
:23 deg\_C / 58 RH

Engineer

:Curry

Measurement Antenna Pol.

:Ver. / Hor.



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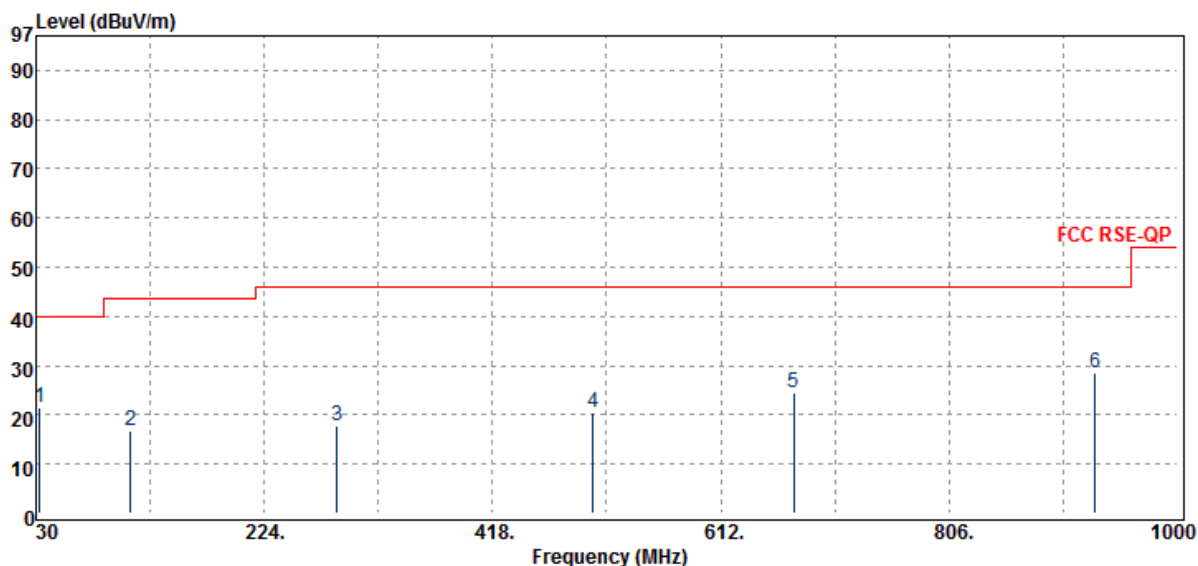
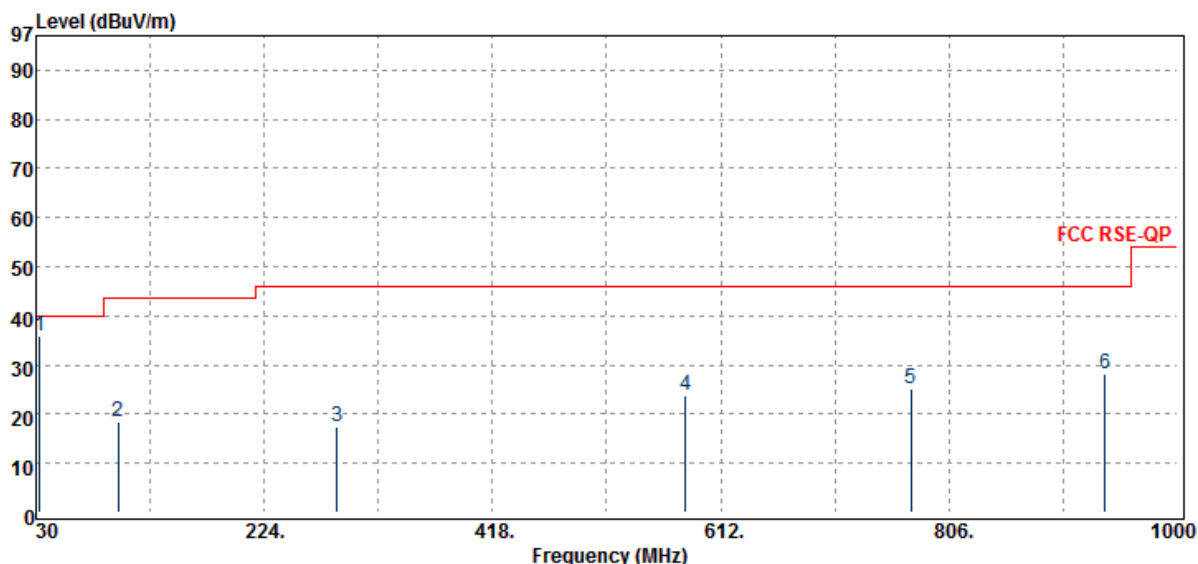
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Operation Band :802.11 n40M  
Fundamental Frequency :5230 MHz  
Operation Mode :TX HIGH  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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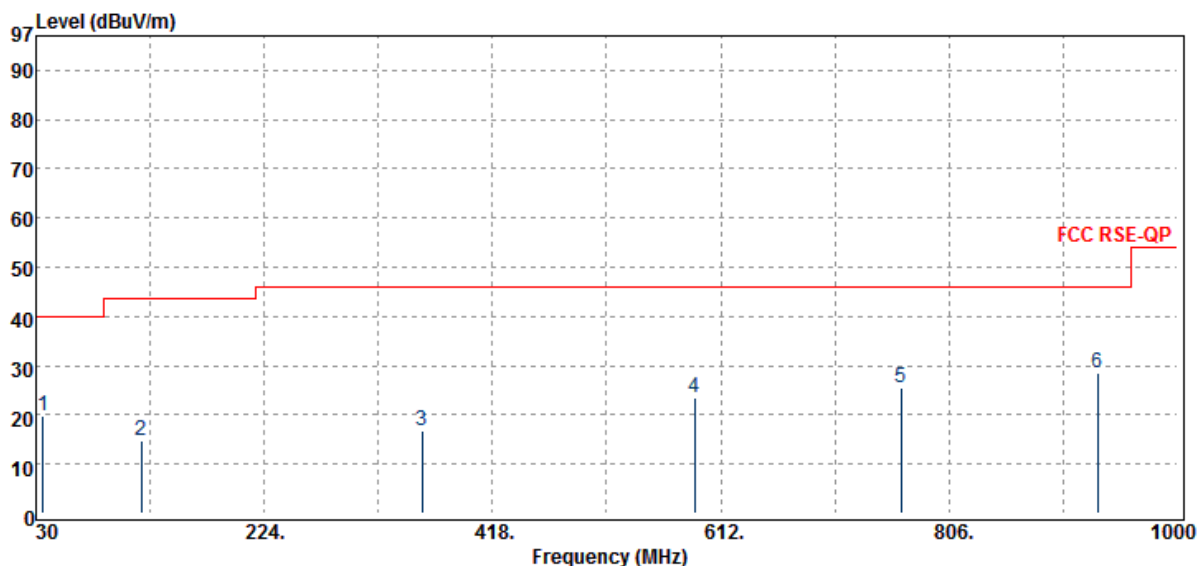
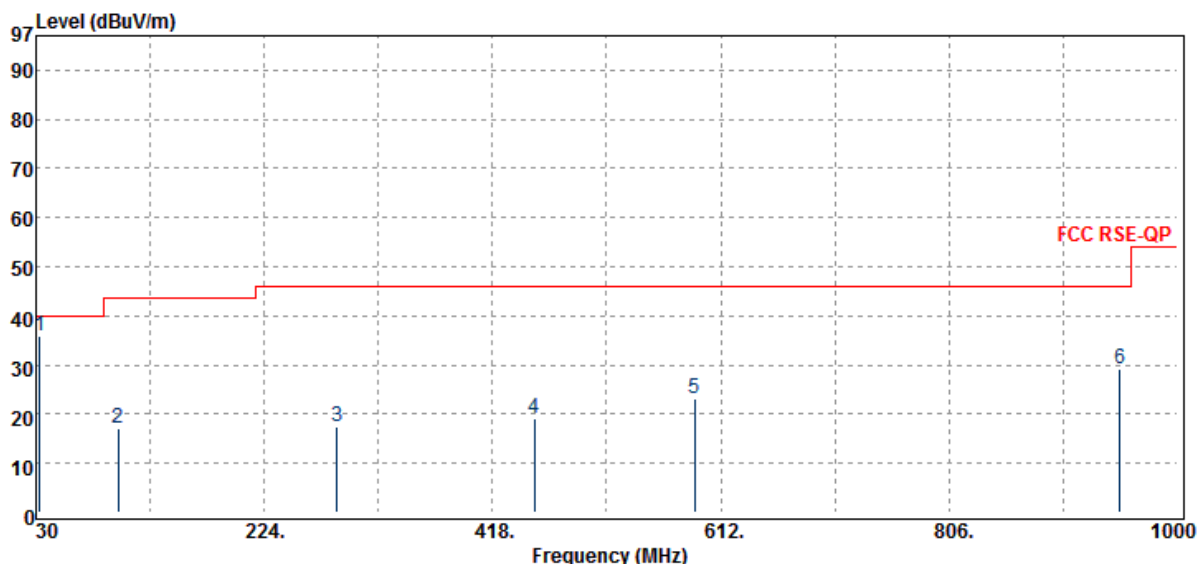
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## 802.11n\_40M 5250-5350MHz

Operation Band :802.11 n40M  
Fundamental Frequency :5270 MHz  
Operation Mode :TX LOW  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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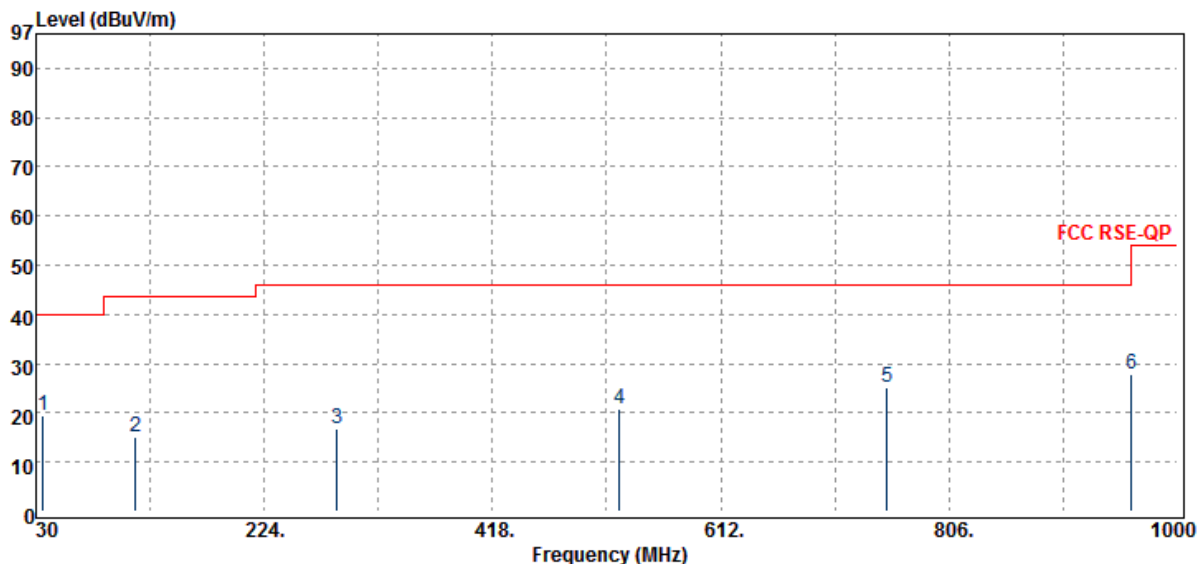
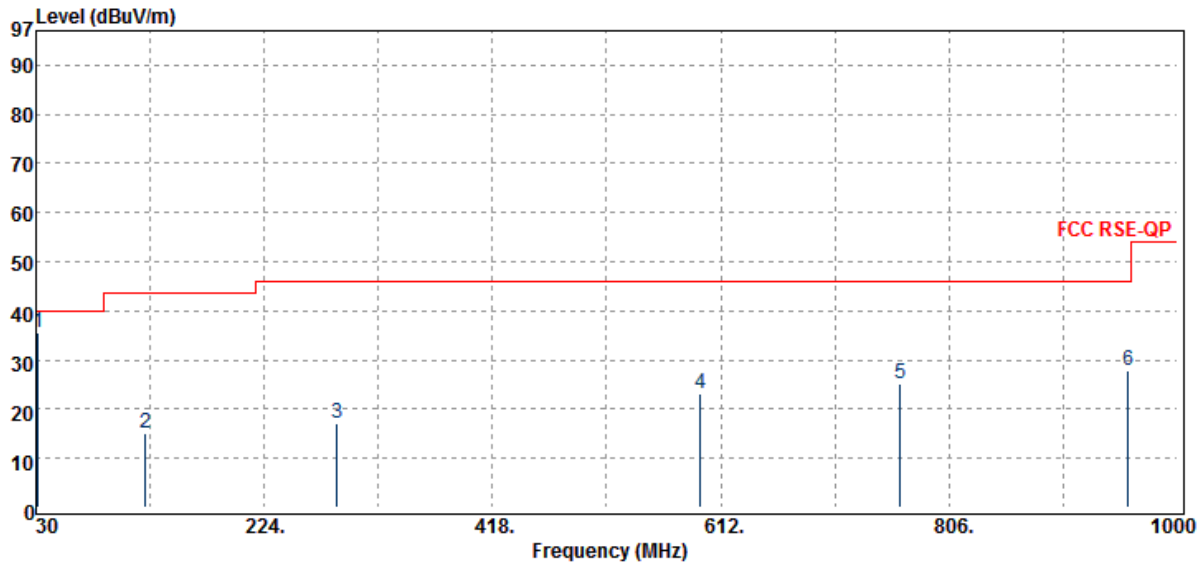
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Operation Band :802.11 n40M  
Fundamental Frequency :5310 MHz  
Operation Mode :TX HIGH  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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# 802.11n\_40M 5470-5725MHz

Operation Band :802.11 n40M

Fundamental Frequency :5510 MHz

Operation Mode :TX LOW

EUT Pol. :E1 Plane

Test Date

:2014-11-18

Temp./Humi.

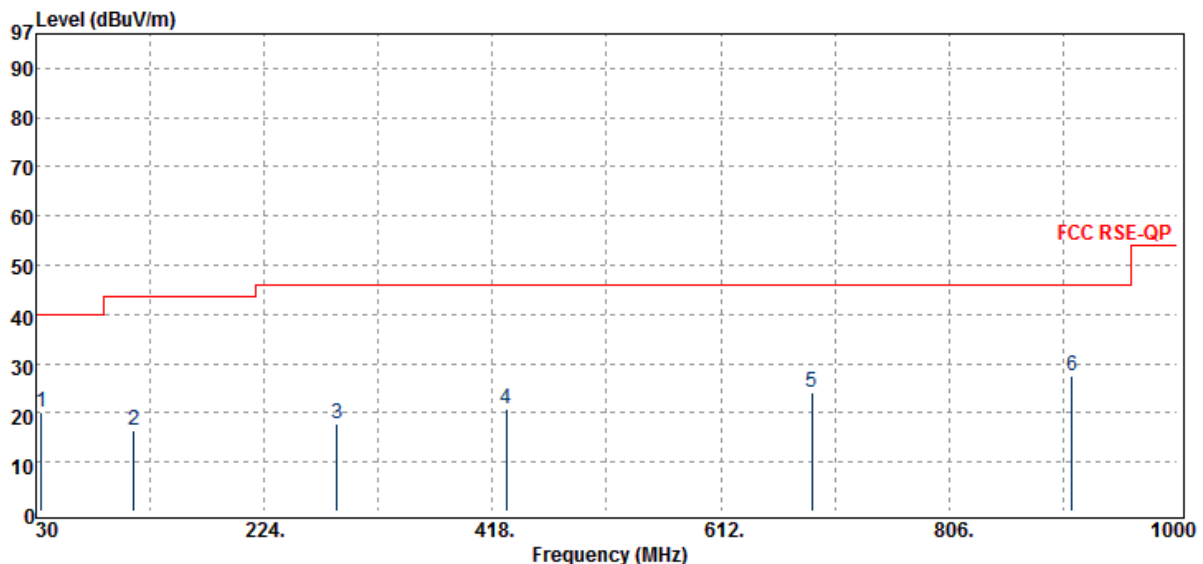
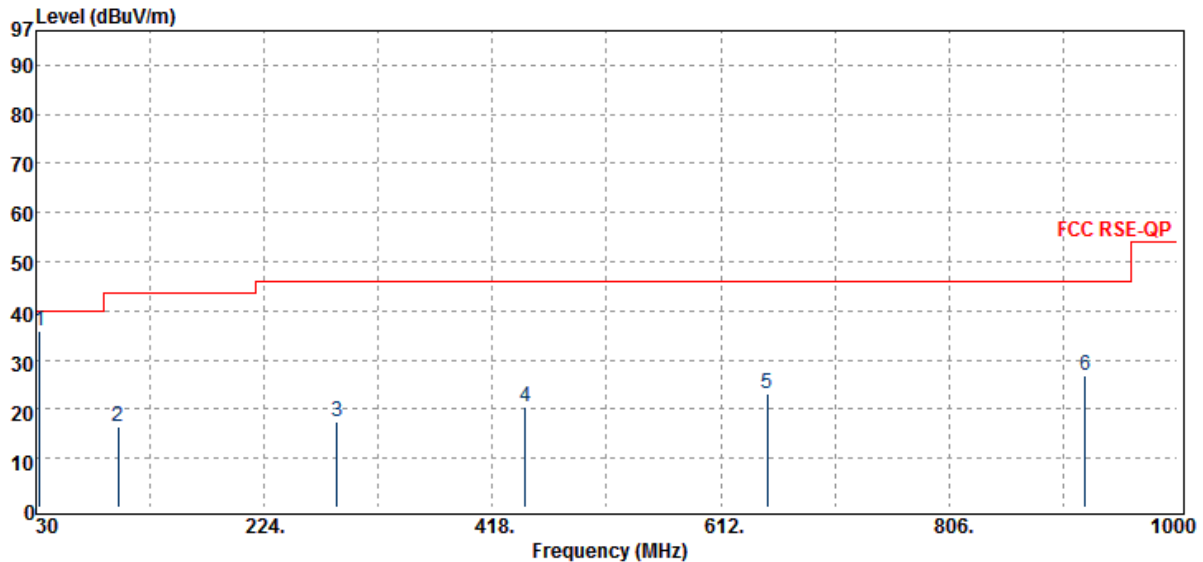
:23 deg\_C / 58 RH

Engineer

:Curry

Measurement Antenna Pol.

:Ver. / Hor.



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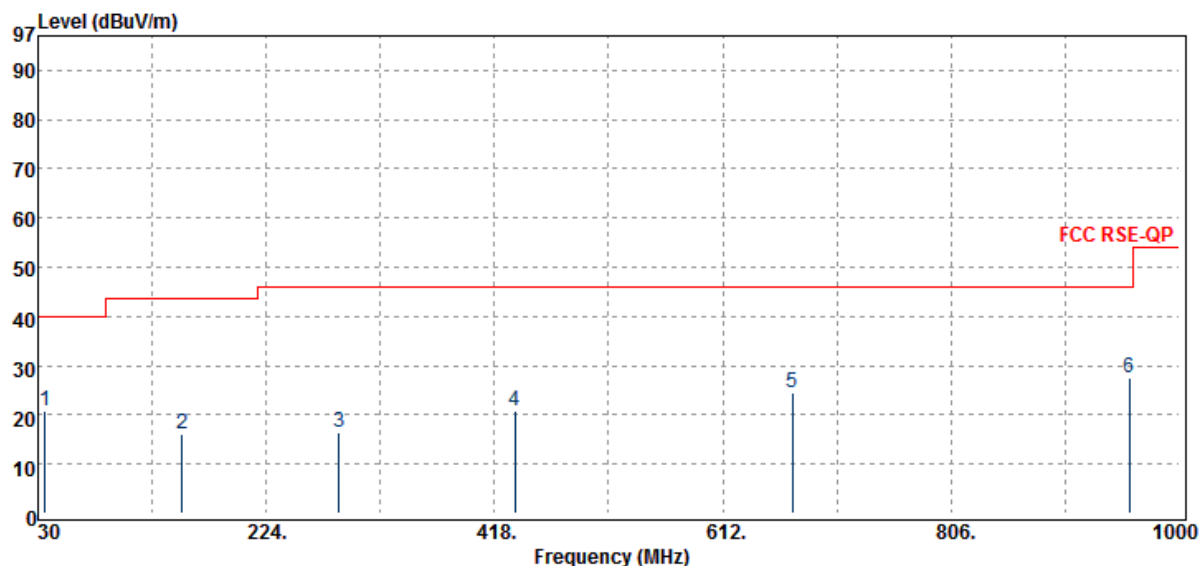
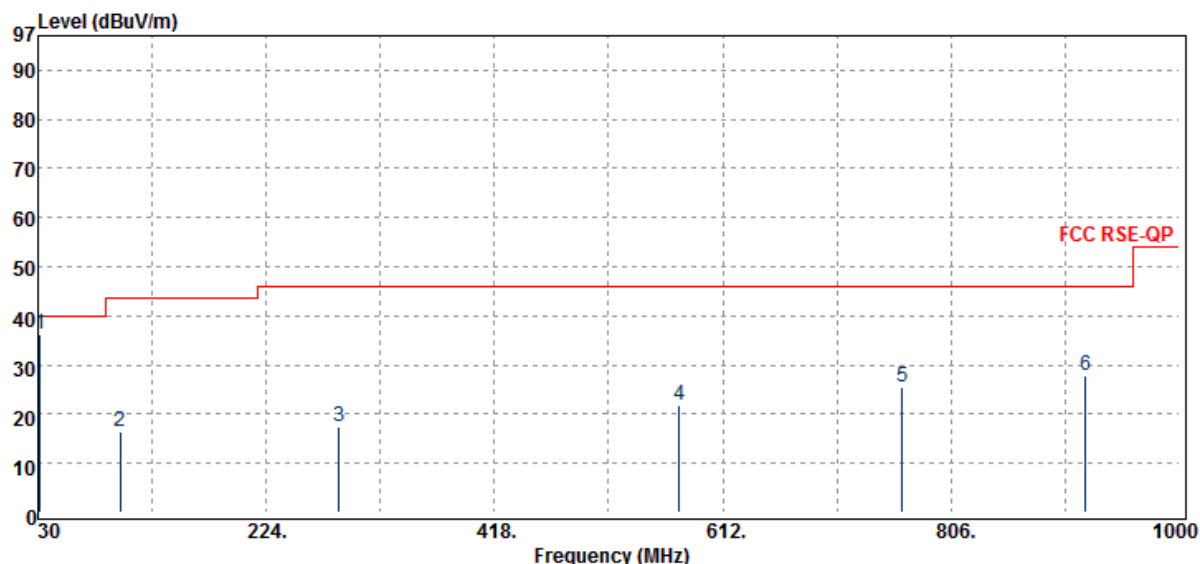
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Operation Band :802.11 n40M  
Fundamental Frequency :5550 MHz  
Operation Mode :TX MID  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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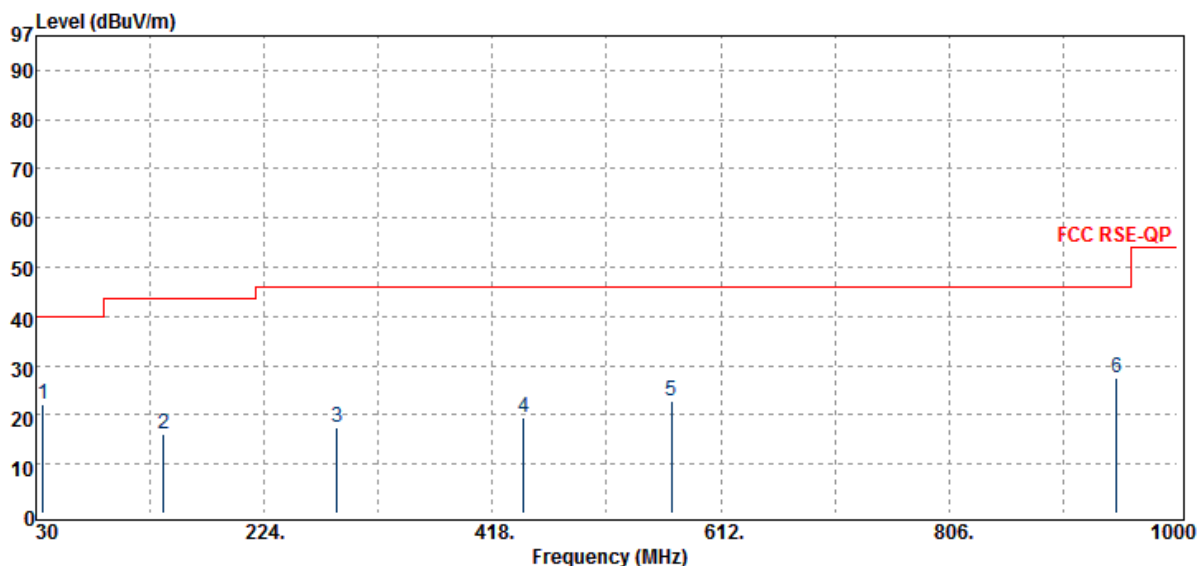
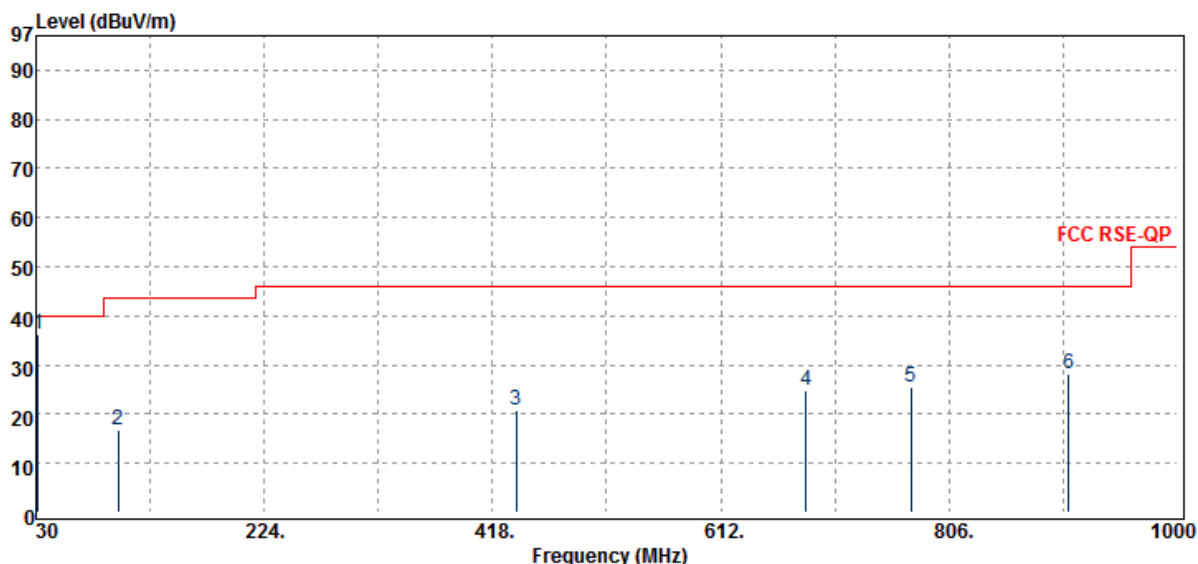
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Operation Band :802.11 n40M  
Fundamental Frequency :5670 MHz  
Operation Mode :TX HIGH  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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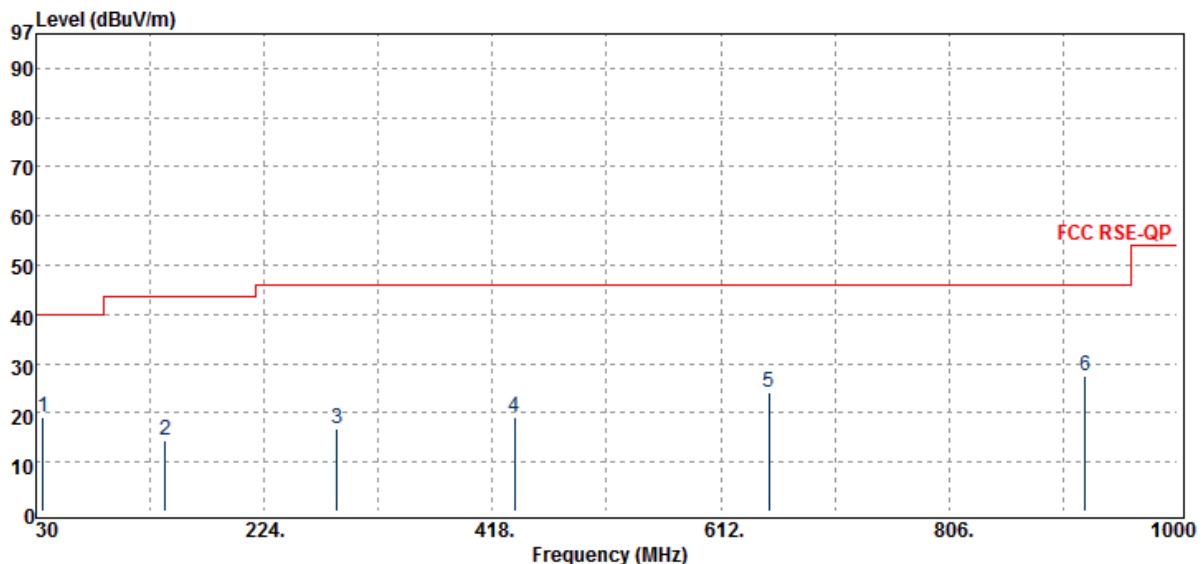
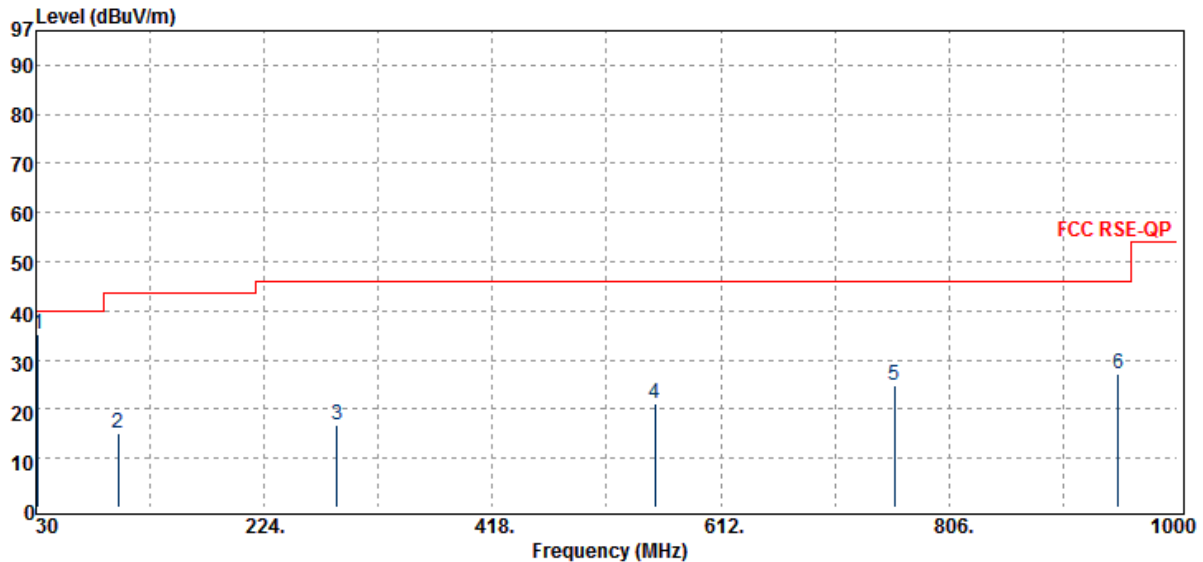
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# 802.11n\_40M 5725-5850MHz

Operation Band :802.11 n40M  
Fundamental Frequency :5755 MHz  
Operation Mode :TX LOW  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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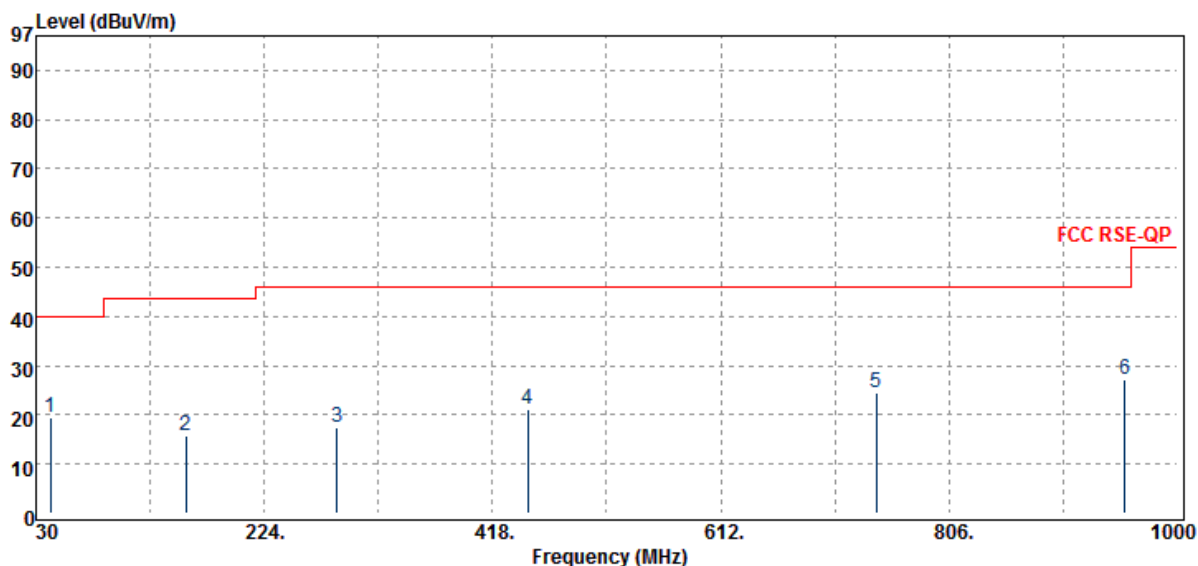
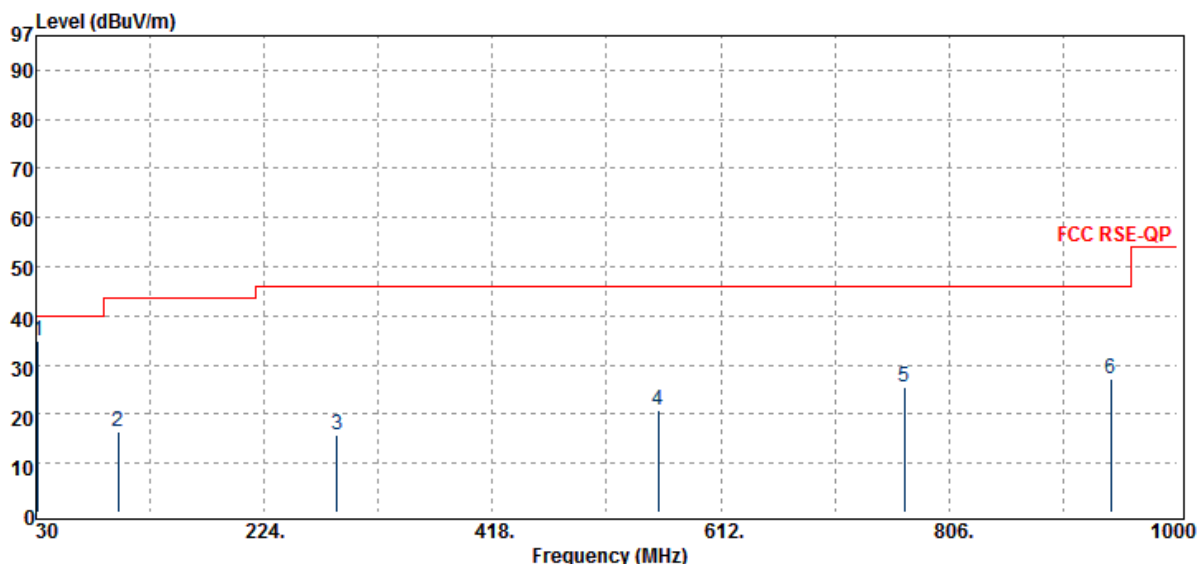
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Operation Band :802.11 n40M  
Fundamental Frequency :5795 MHz  
Operation Mode :TX HIGH  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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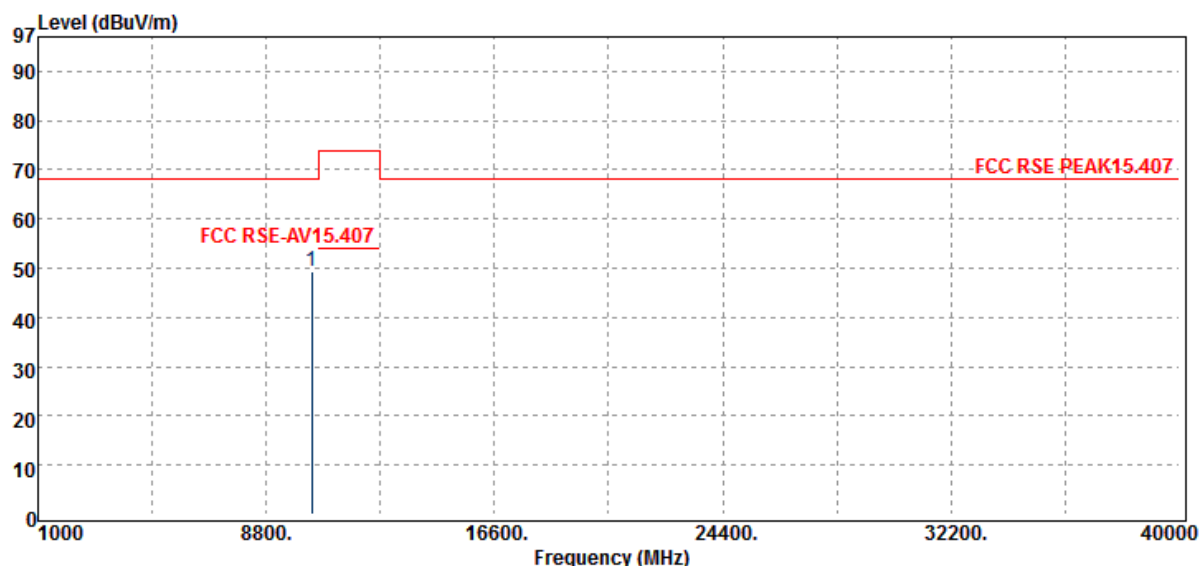
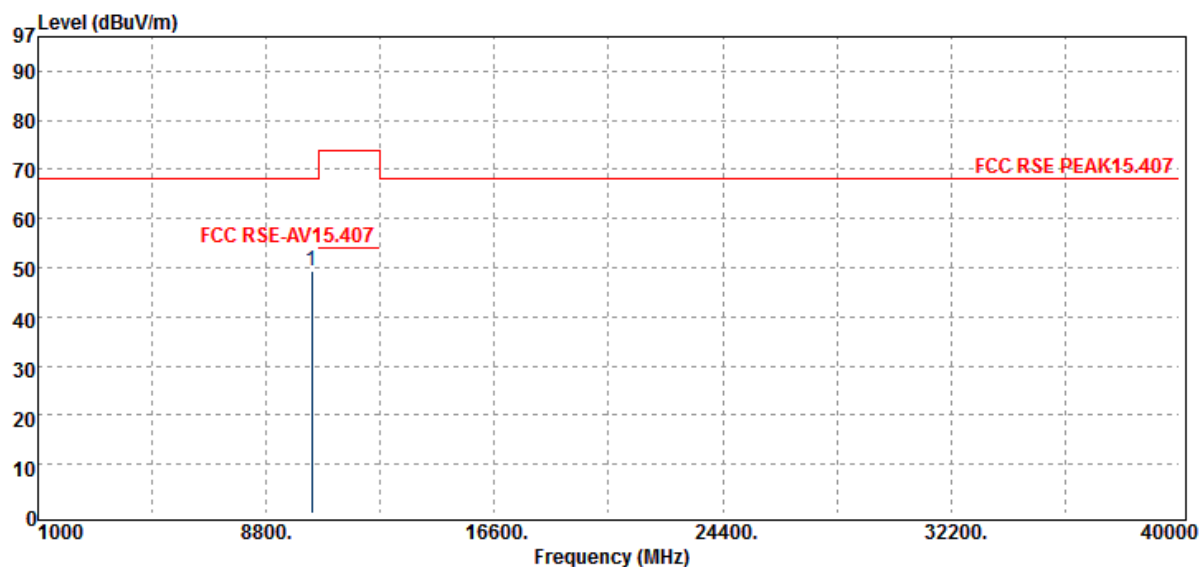
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**Radiated Spurious Emission Measurement photos Result (above 1GHz)****802.11a 5150-5250MHz**

|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5180 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW   | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane | Measurement Antenna Pol. | :Ver. / Hor.      |



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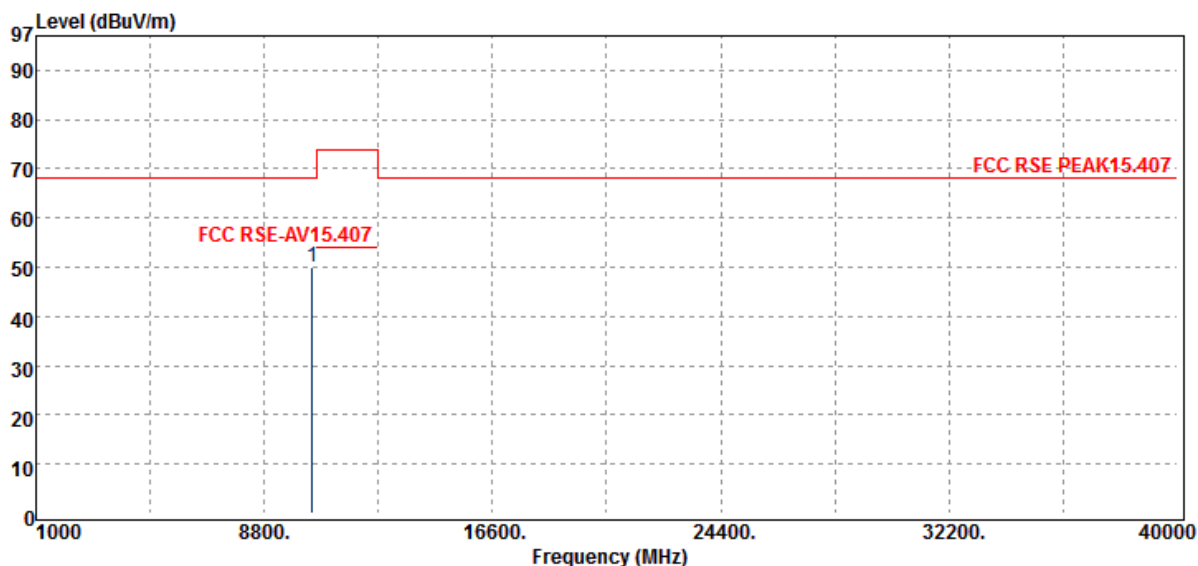
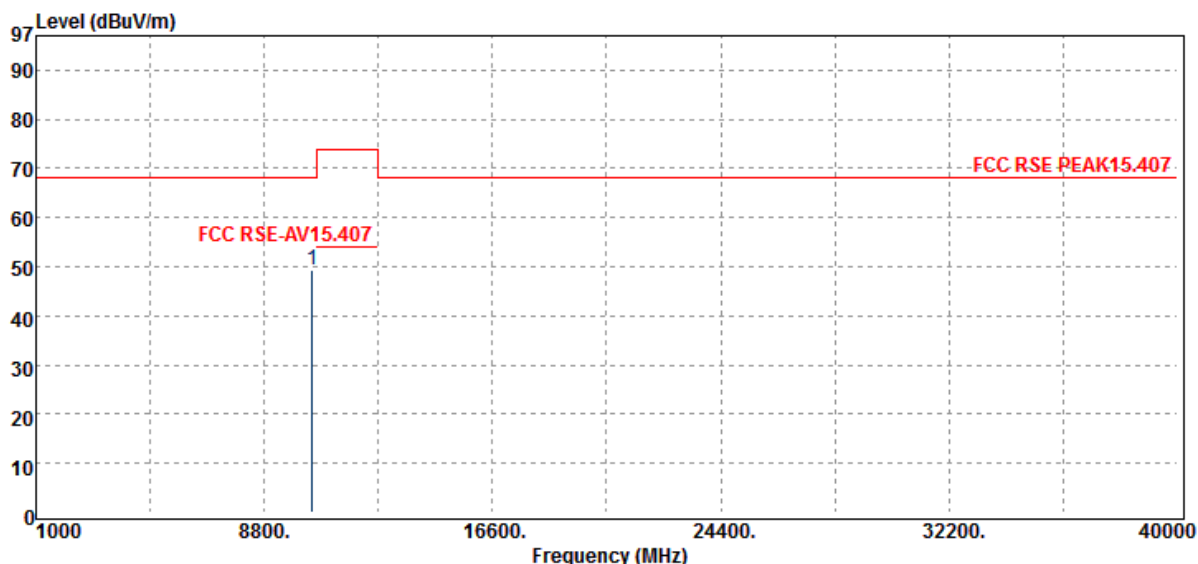
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Operation Band :802.11 a  
Fundamental Frequency :5220 MHz  
Operation Mode :TX MID  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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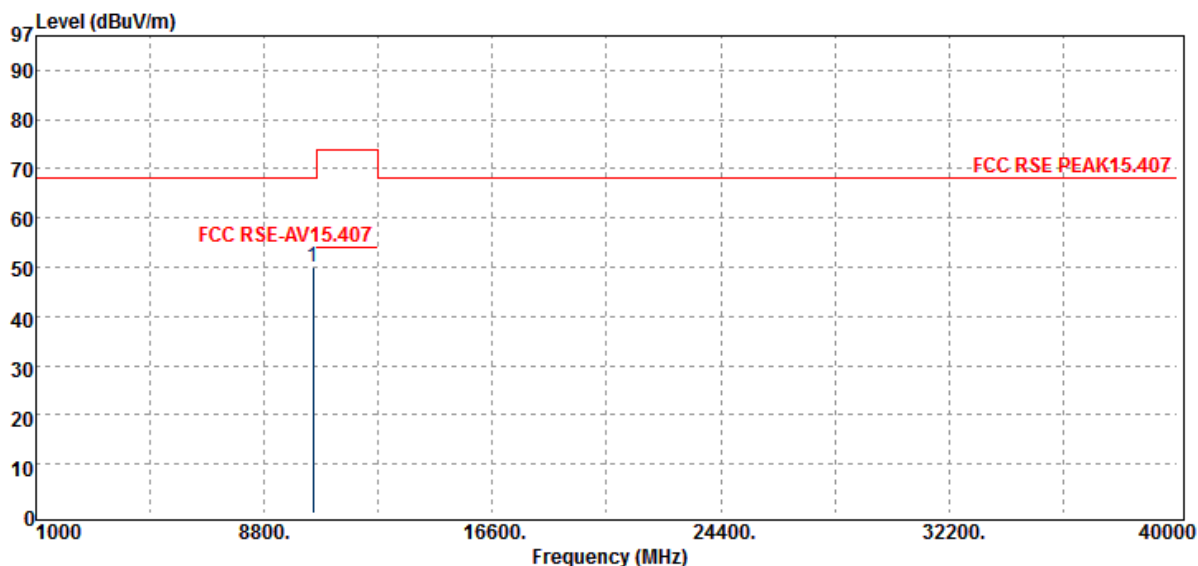
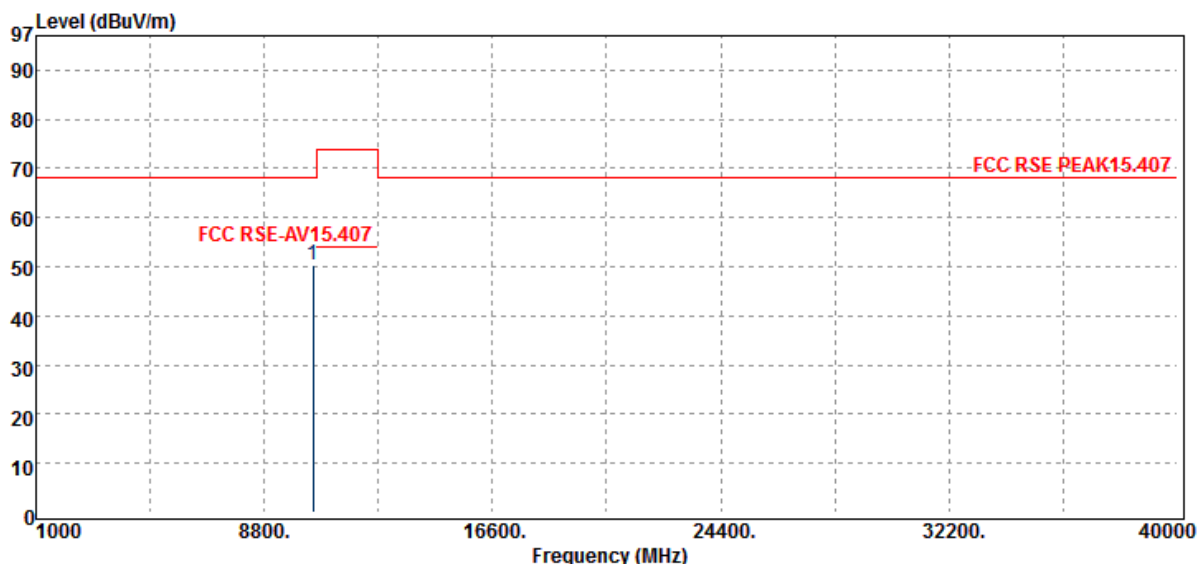
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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5240 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH  | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane | Measurement Antenna Pol. | :Ver. / Hor.      |



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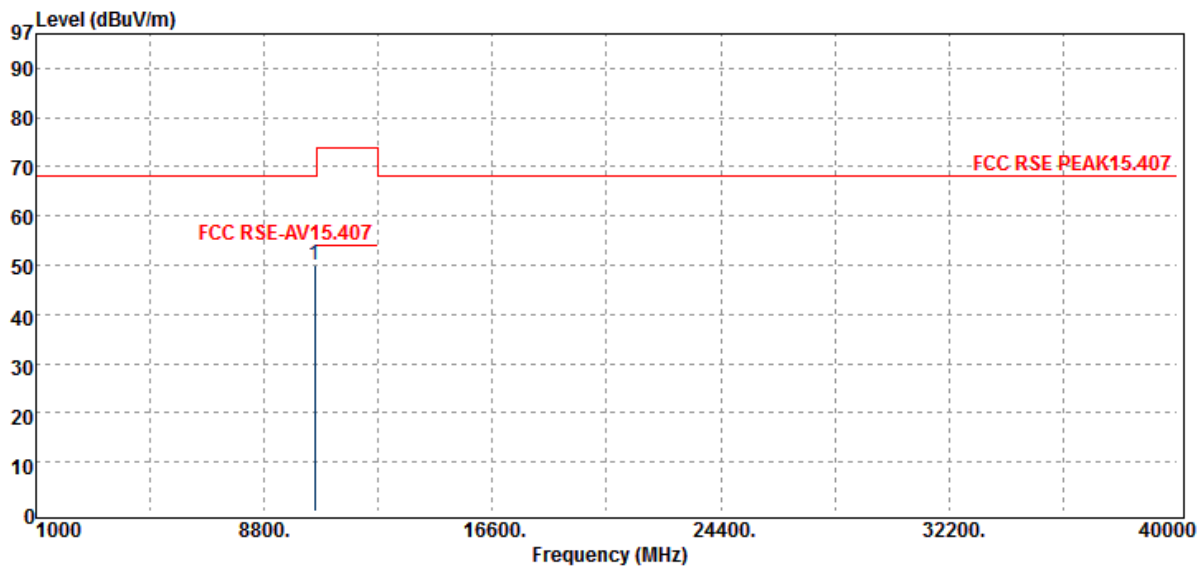
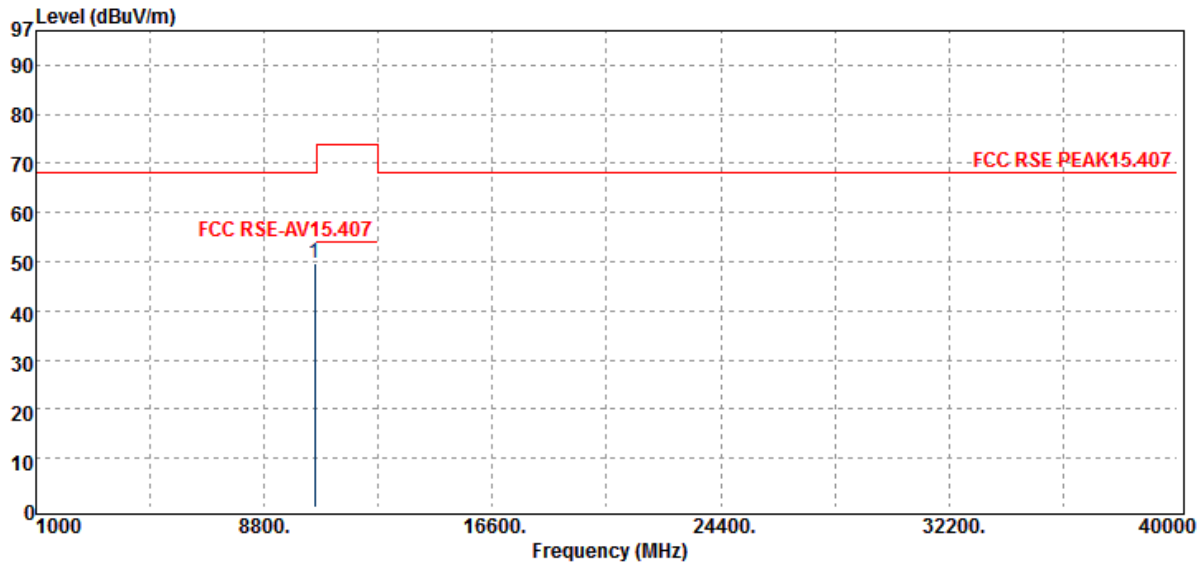
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## 802.11a 5250-5350MHz

Operation Band :802.11 a  
Fundamental Frequency :5260 MHz  
Operation Mode :TX LOW  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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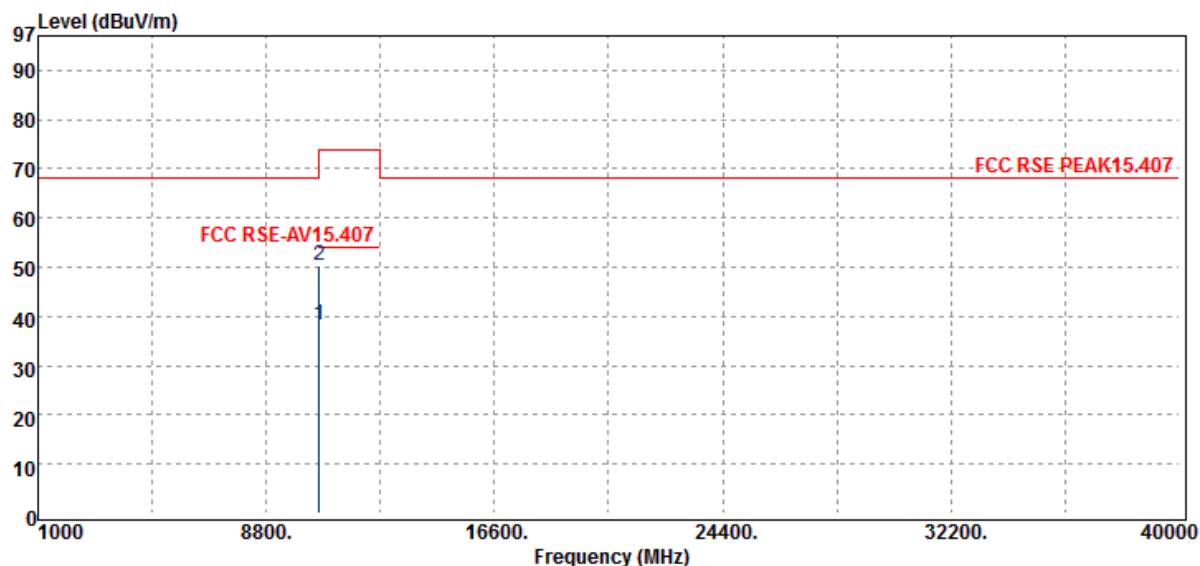
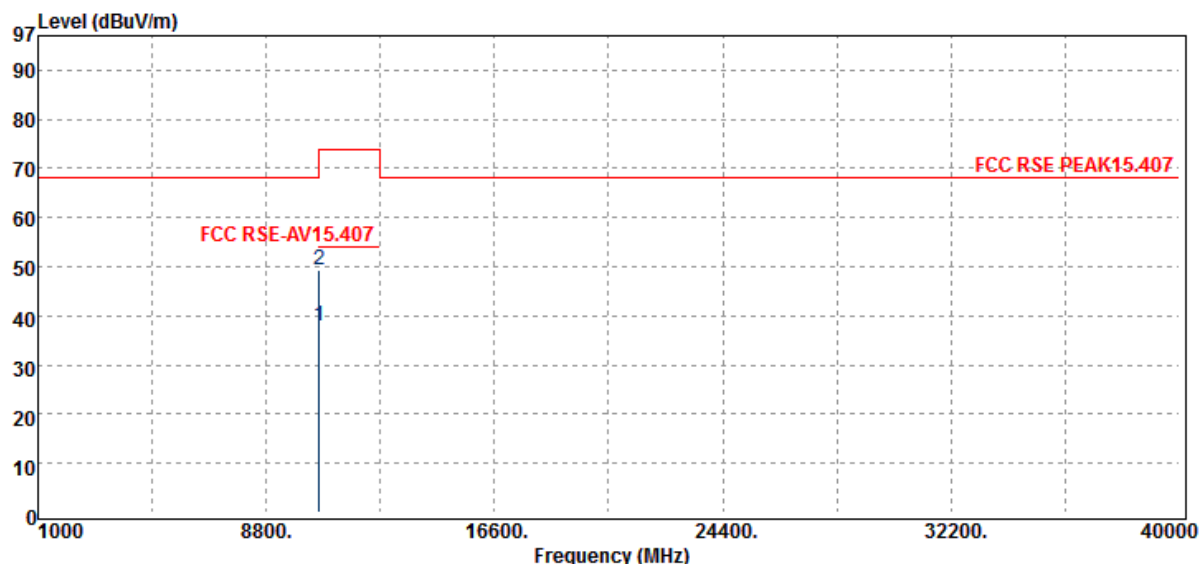
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Operation Band :802.11 a  
Fundamental Frequency :5300 MHz  
Operation Mode :TX MID  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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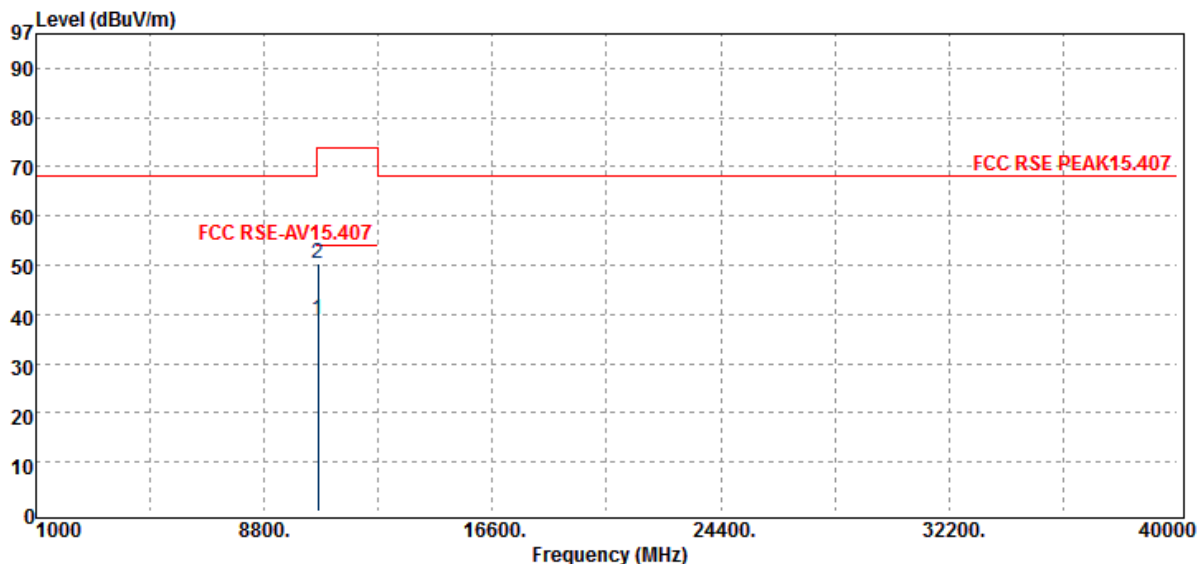
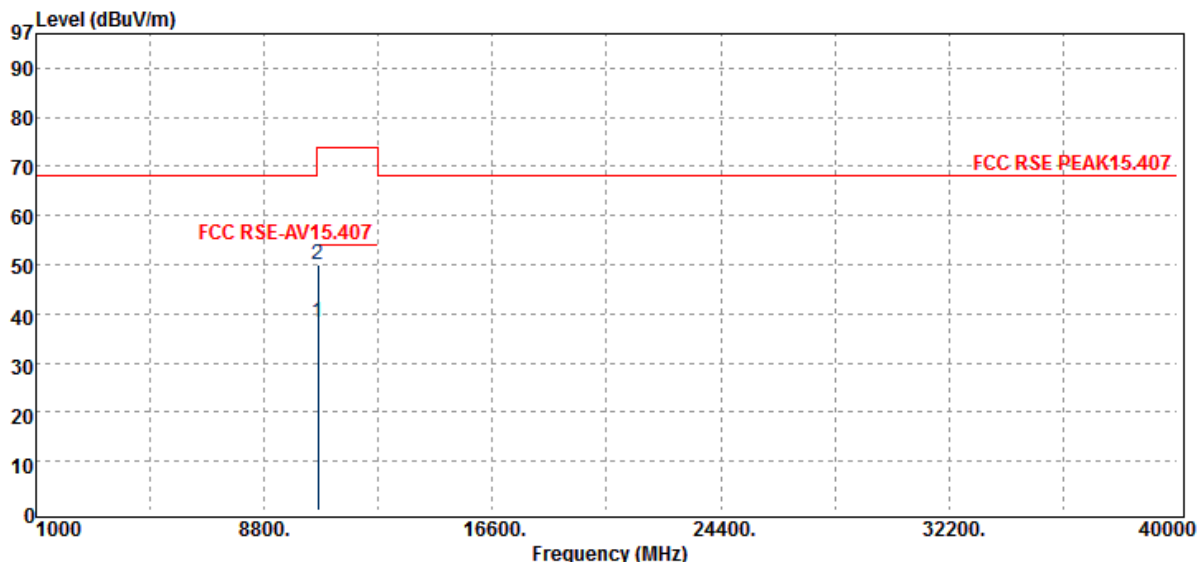
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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5320 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH  | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane | Measurement Antenna Pol. | :Ver. / Hor.      |



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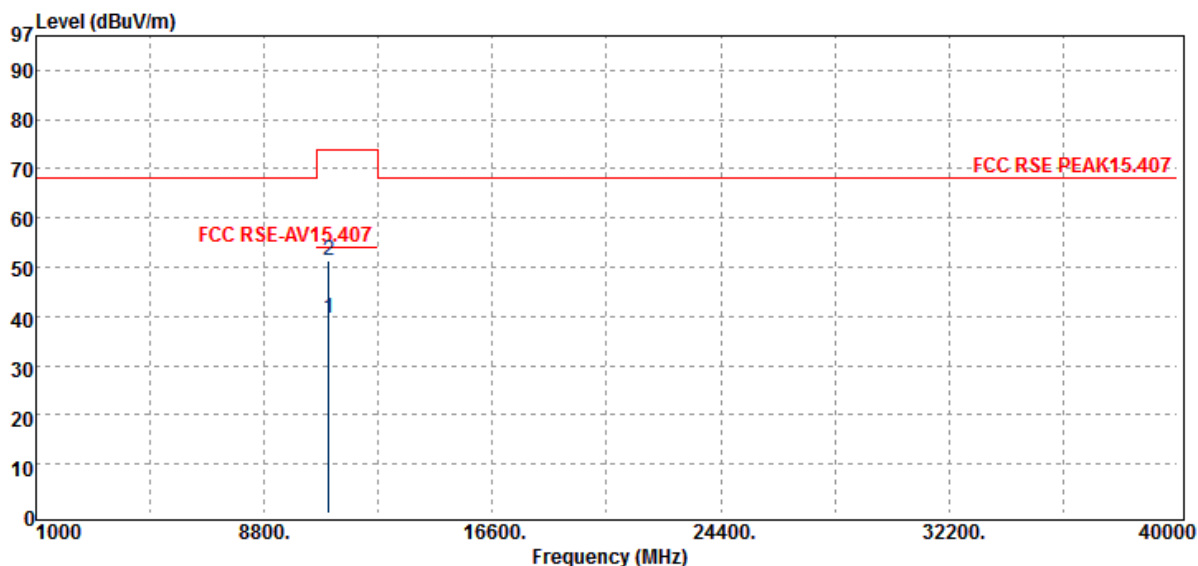
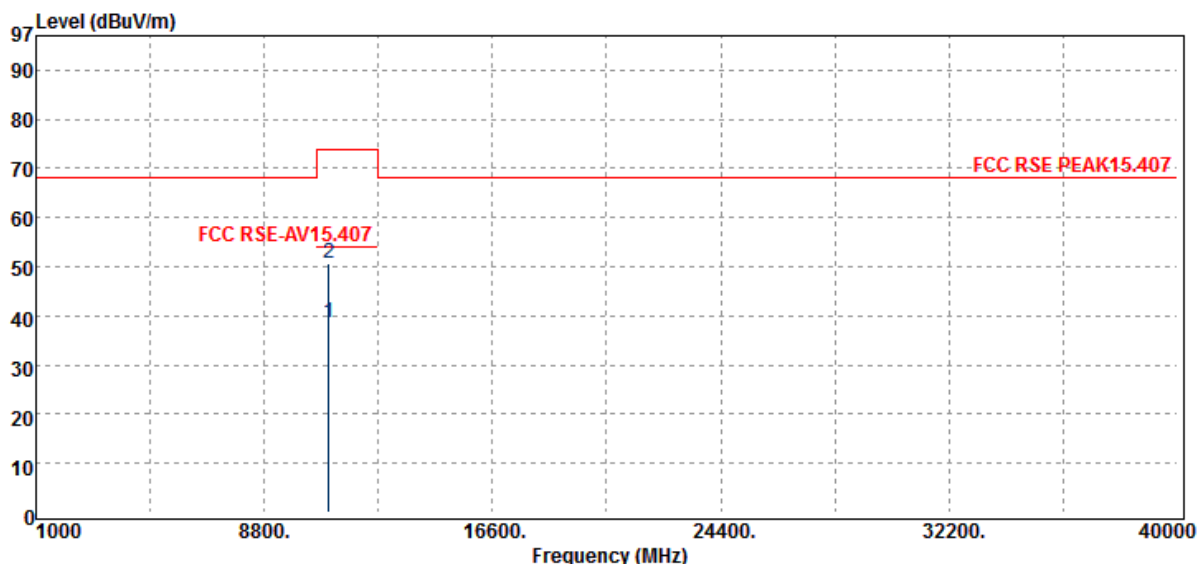
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## 802.11a 5470-5725MHz

Operation Band :802.11 a  
Fundamental Frequency :5500 MHz  
Operation Mode :TX LOW  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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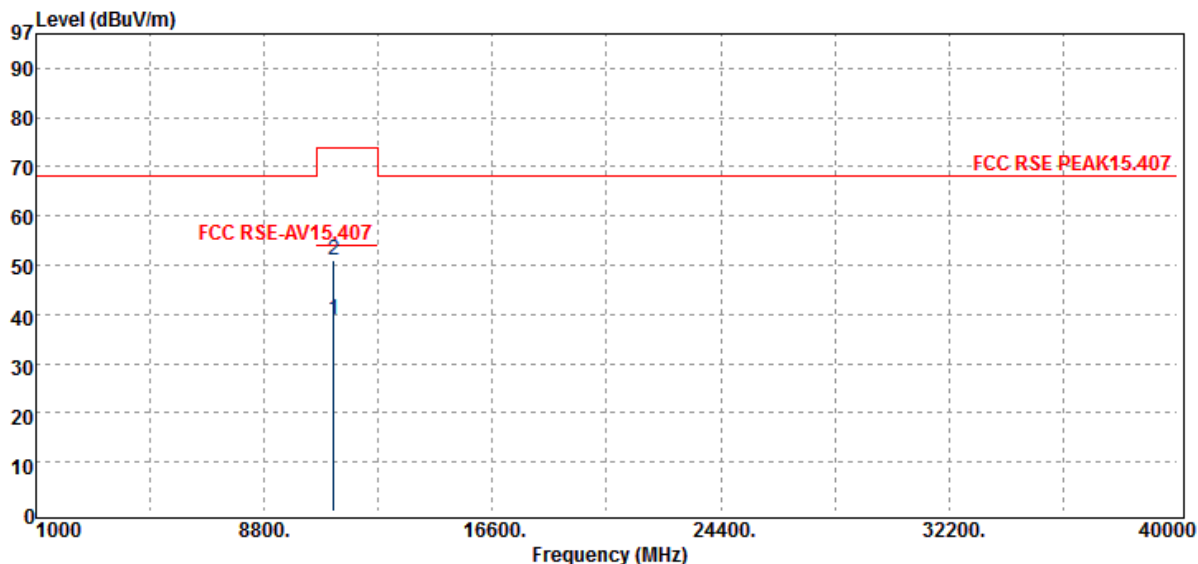
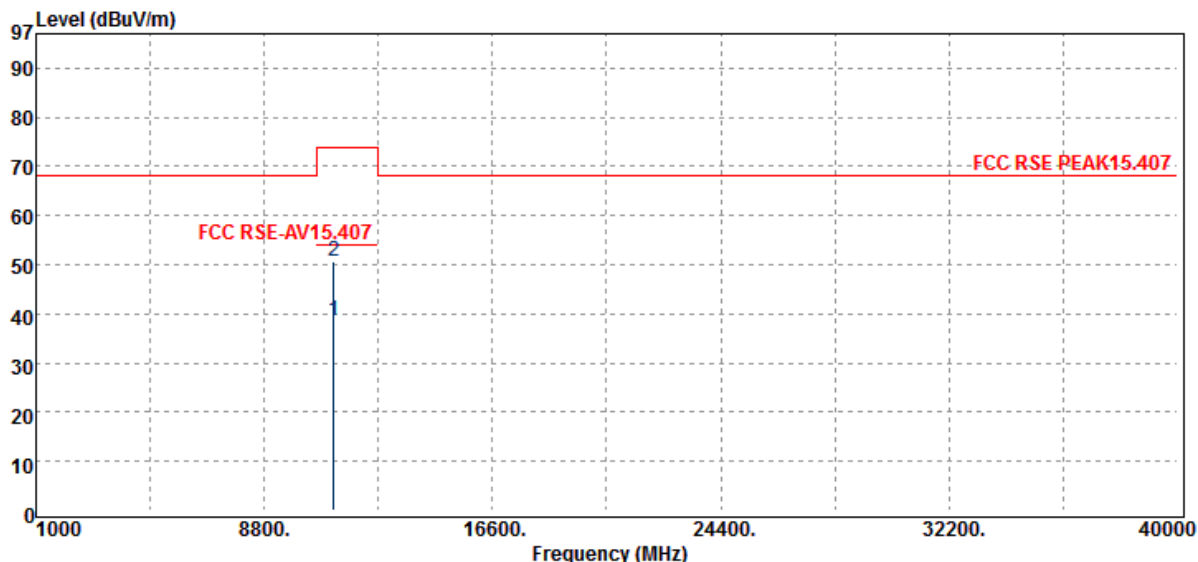
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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5580 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX MID   | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane | Measurement Antenna Pol. | :Ver. / Hor.      |



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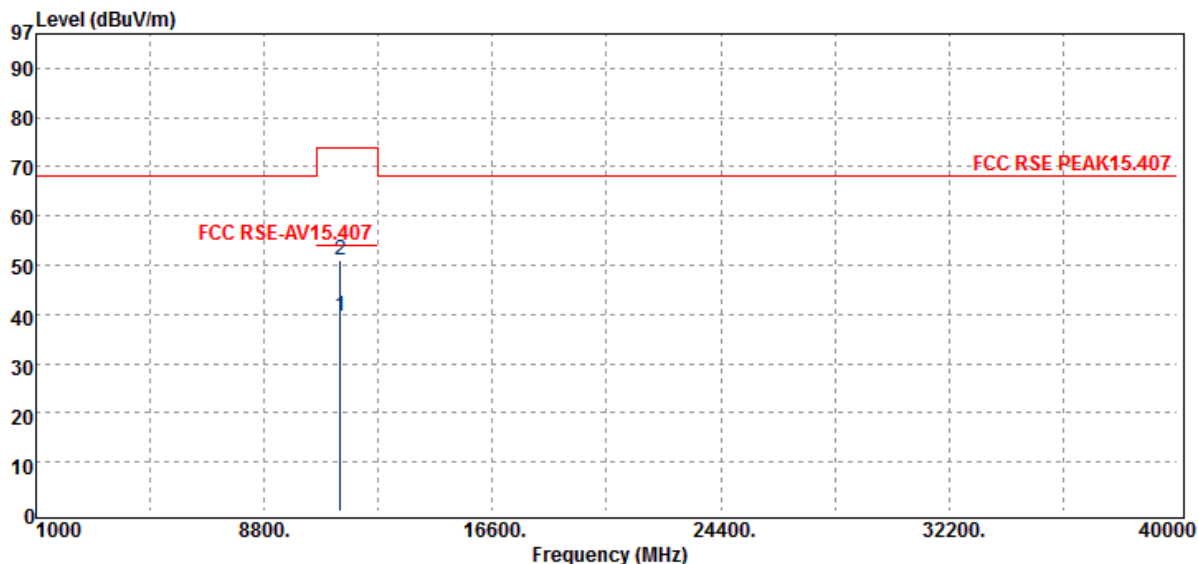
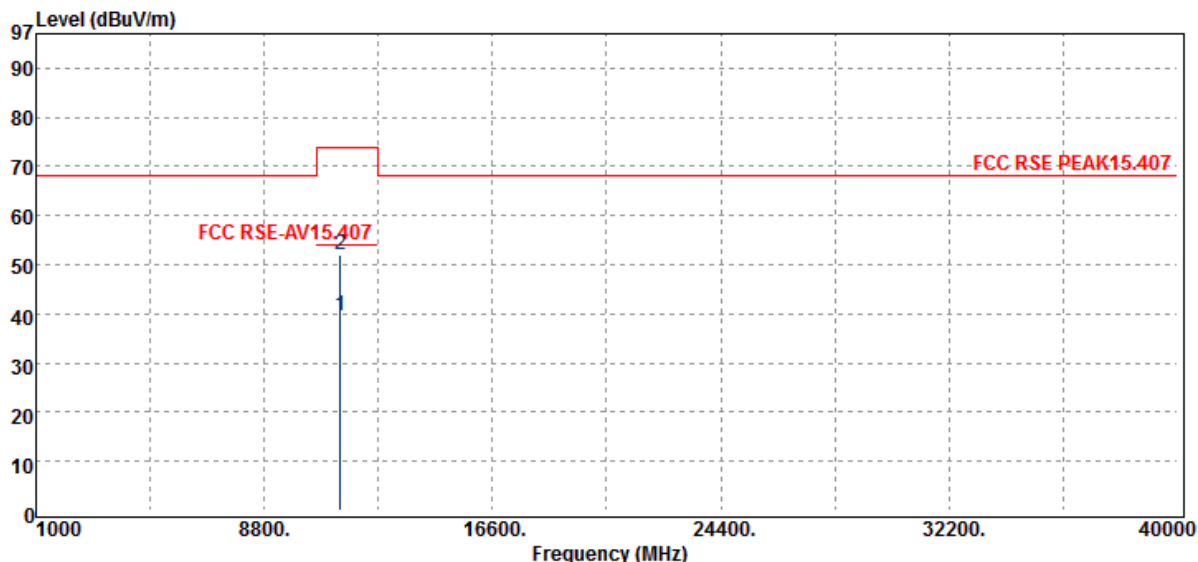
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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5700 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH  | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane | Measurement Antenna Pol. | :Ver. / Hor.      |



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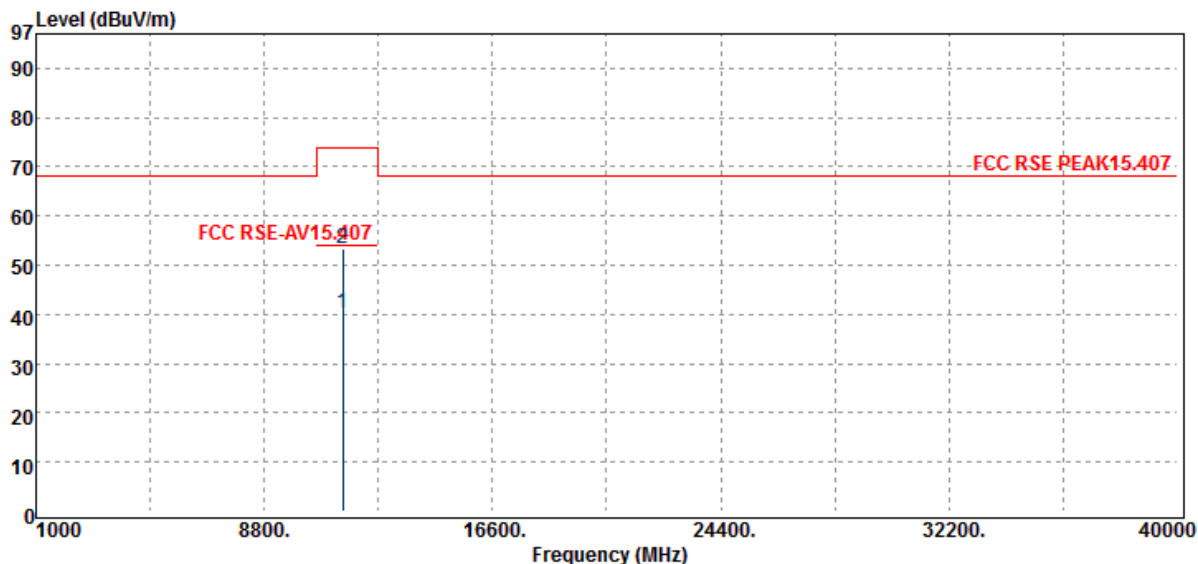
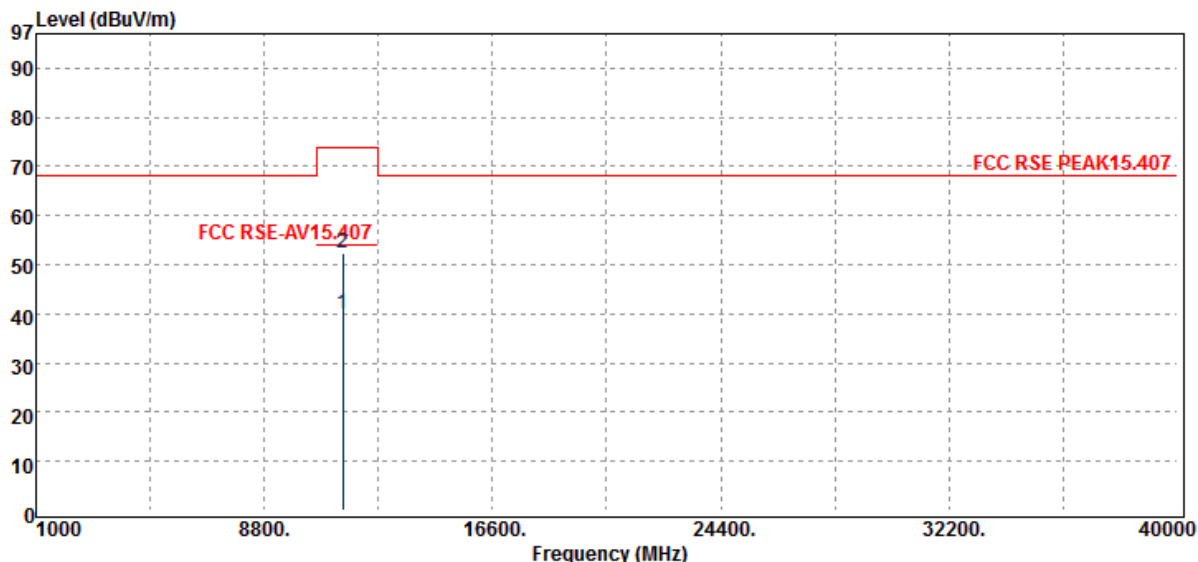
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## 802.11a 5725-5850MHz

|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5745 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW   | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane | Measurement Antenna Pol. | :Ver. / Hor.      |



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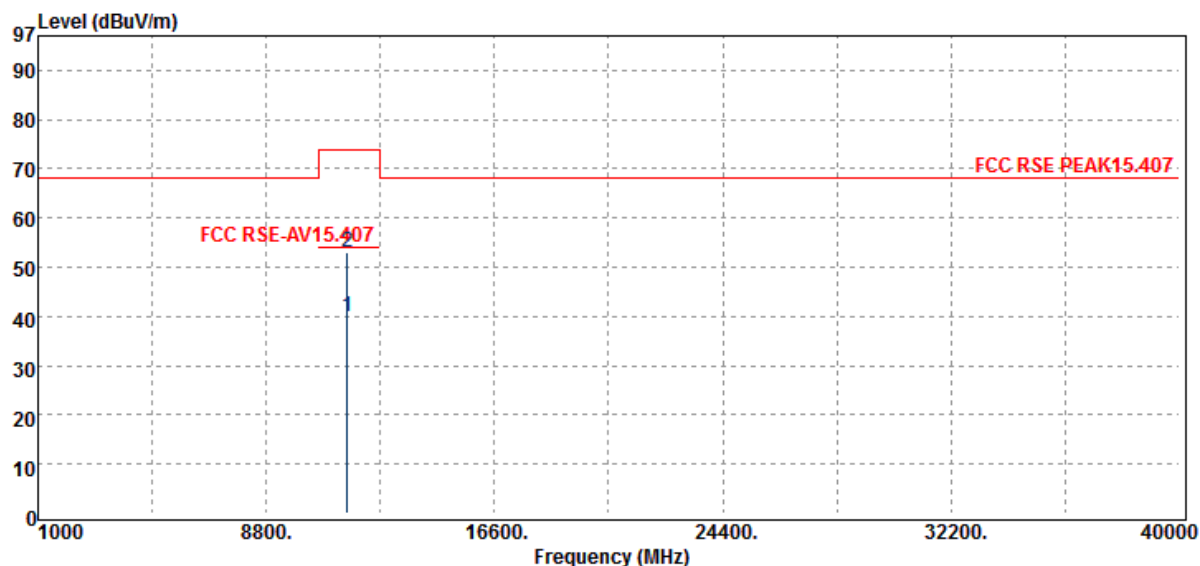
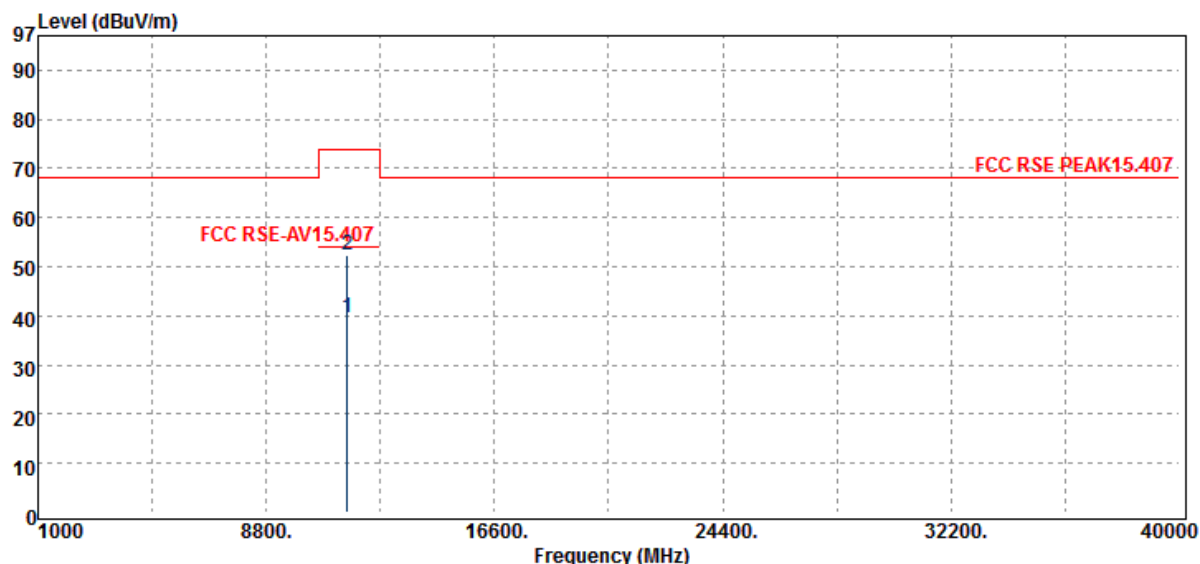
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Operation Band :802.11 a  
Fundamental Frequency :5785 MHz  
Operation Mode :TX MID  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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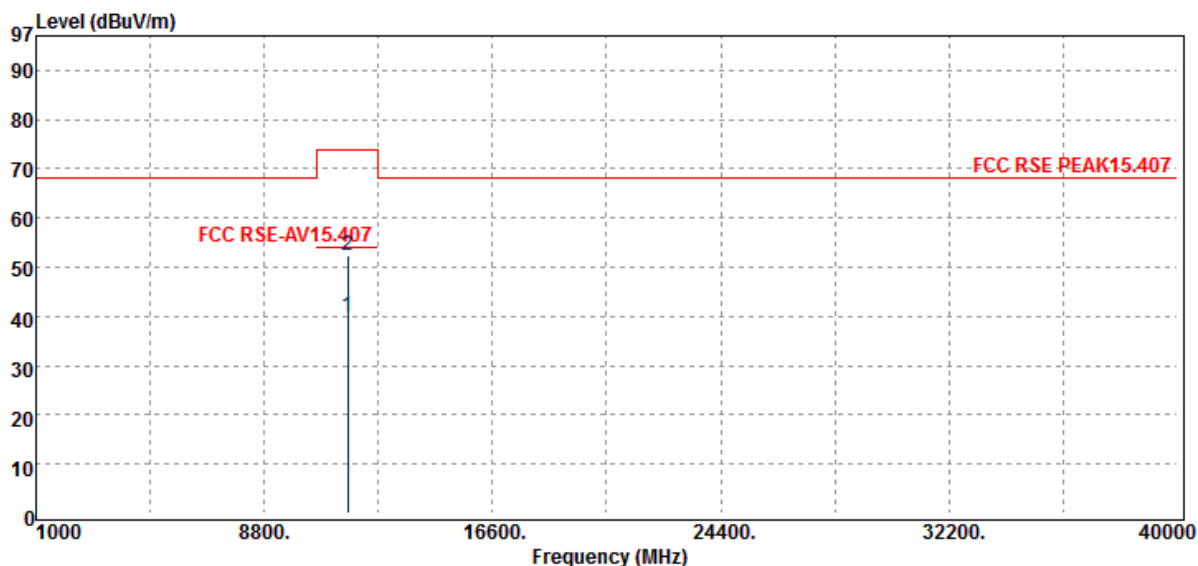
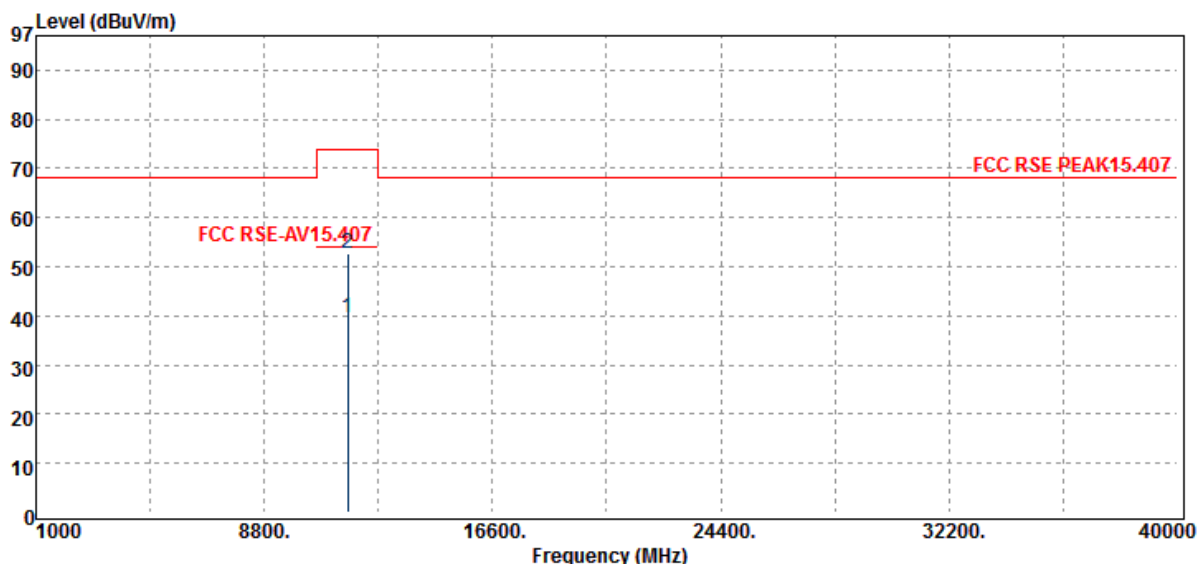
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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5825 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH  | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane | Measurement Antenna Pol. | :Ver. / Hor.      |



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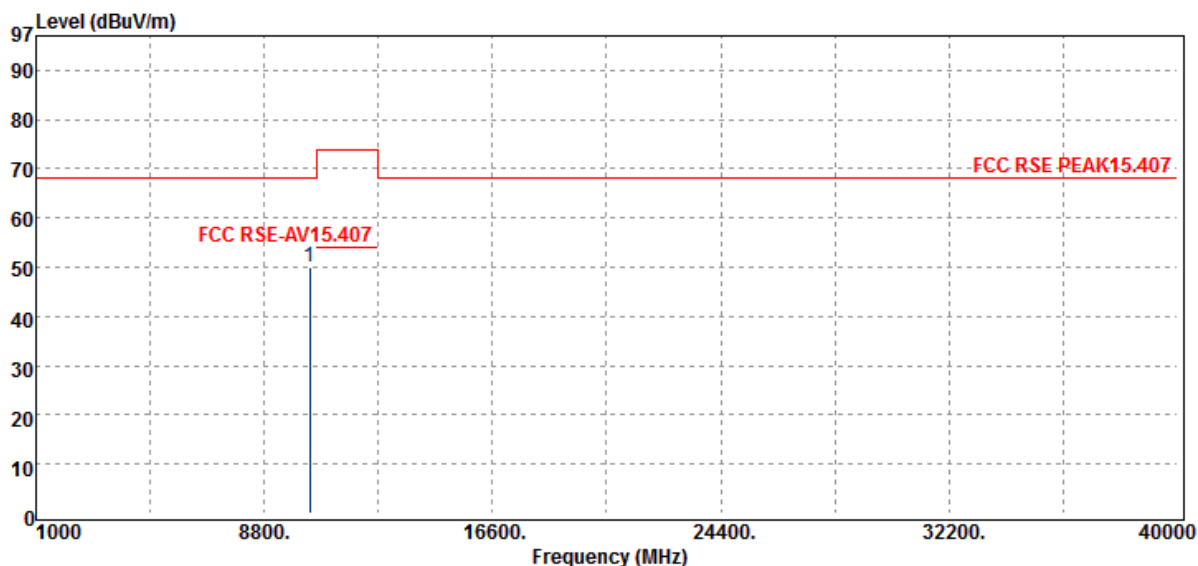
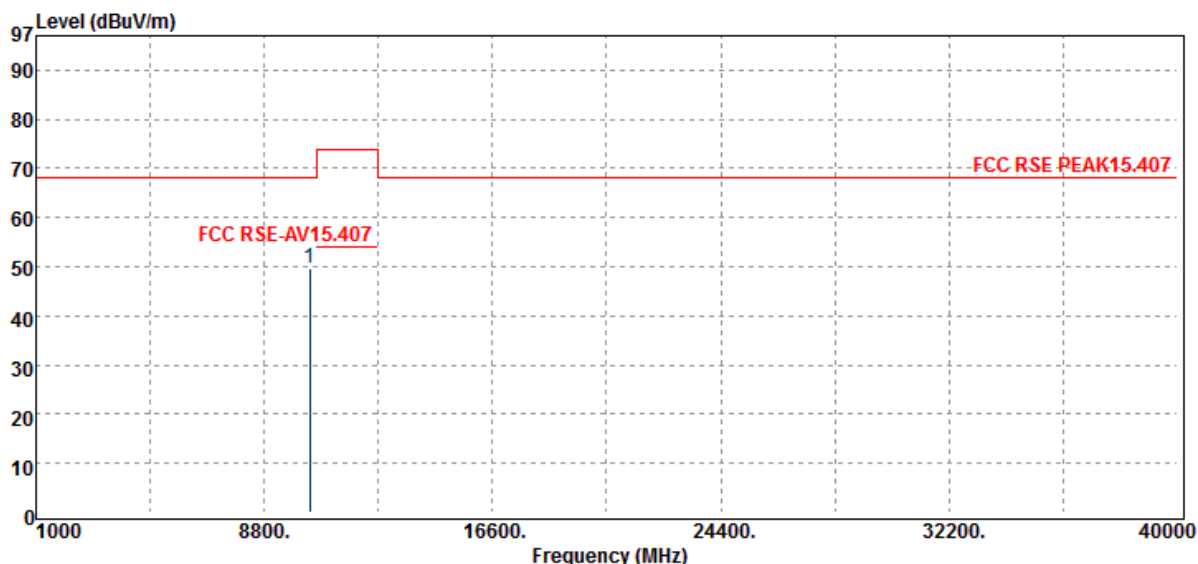
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## 802.11n\_20M 5150-5250MHz

Operation Band :802.11 n20M  
Fundamental Frequency :5180 MHz  
Operation Mode :TX LOW  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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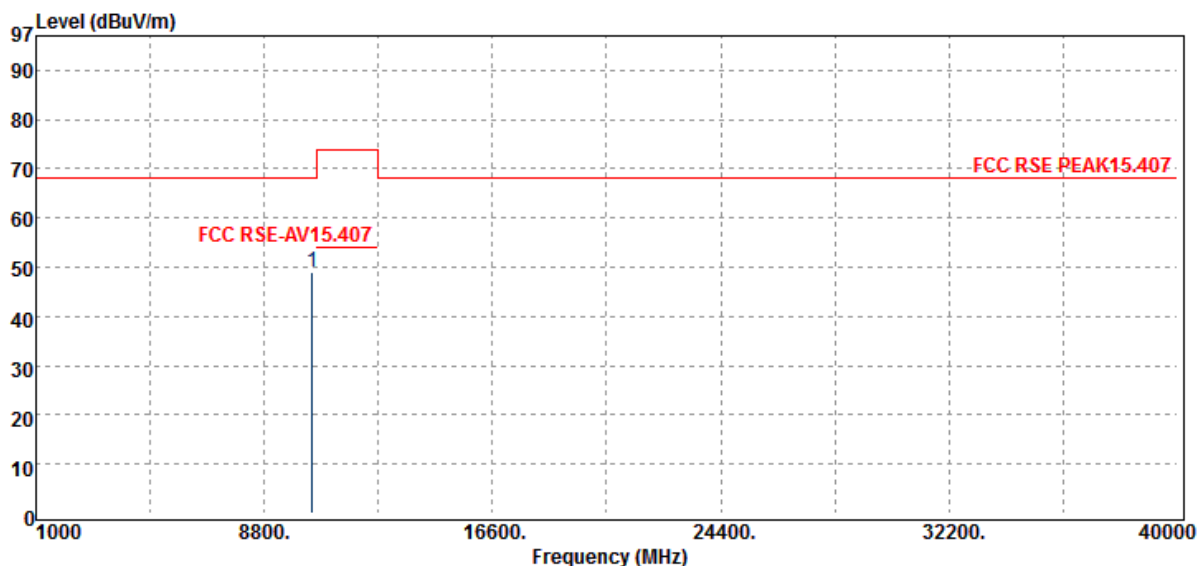
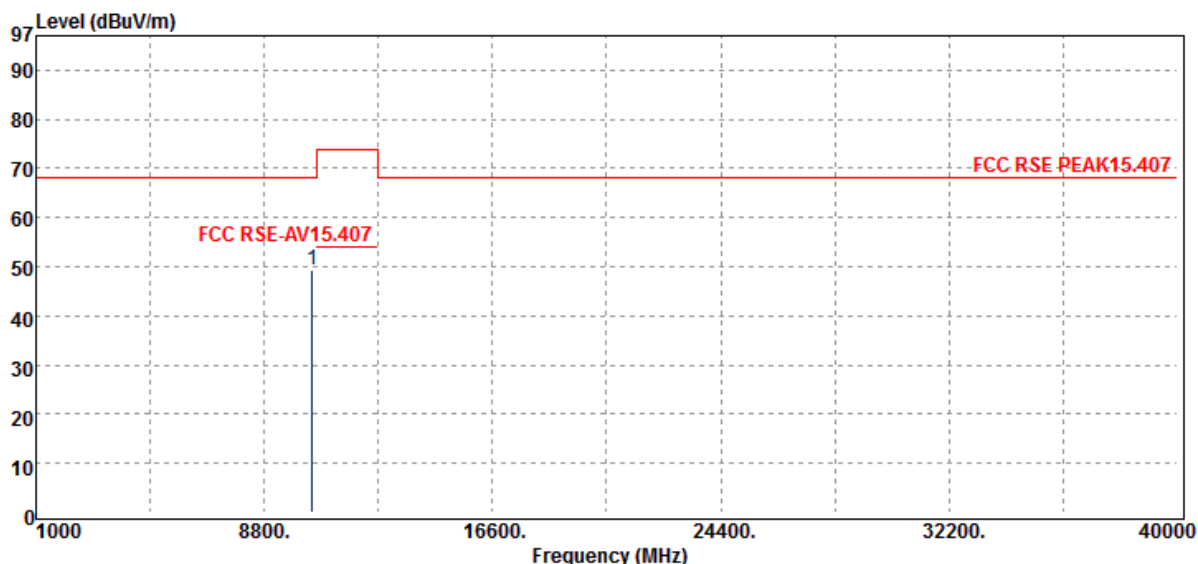
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Operation Band :802.11 n20M  
Fundamental Frequency :5220 MHz  
Operation Mode :TX MID  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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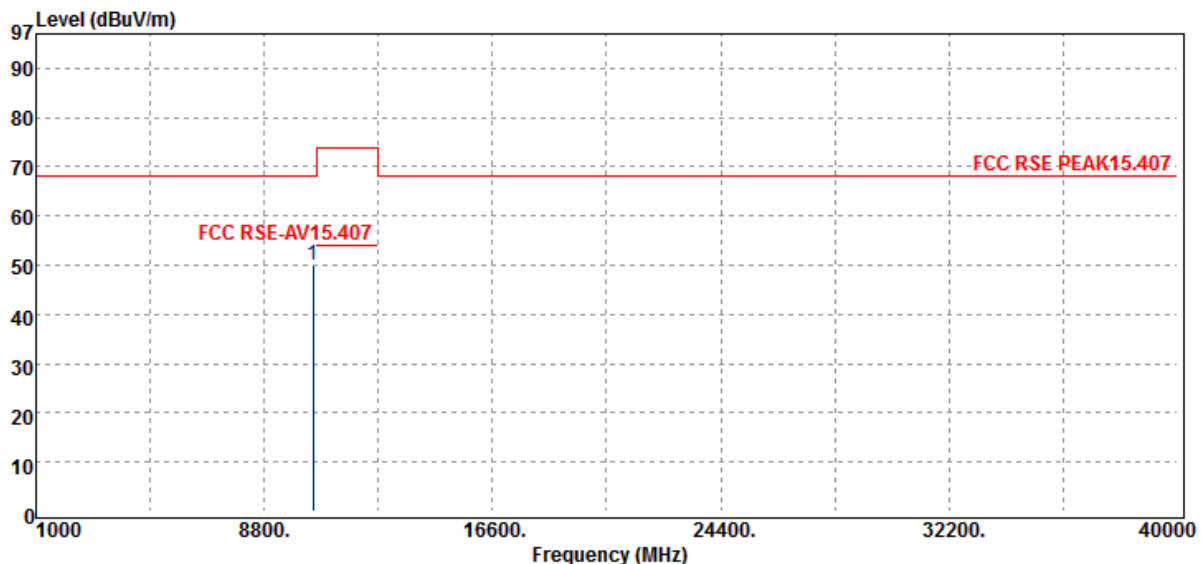
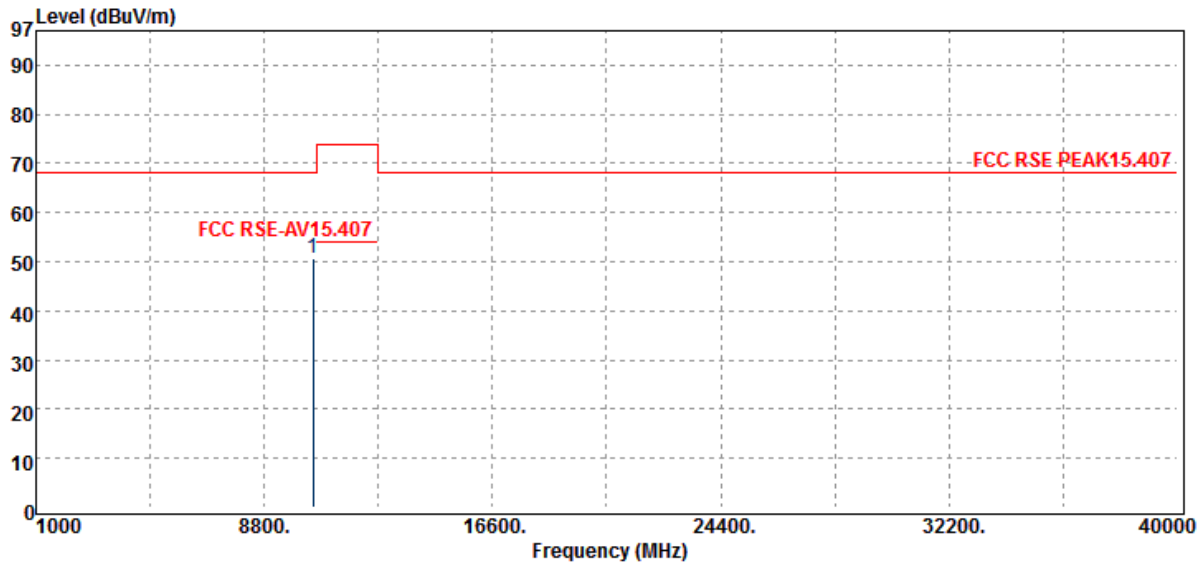
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Operation Band :802.11 n20M  
Fundamental Frequency :5240 MHz  
Operation Mode :TX HIGH  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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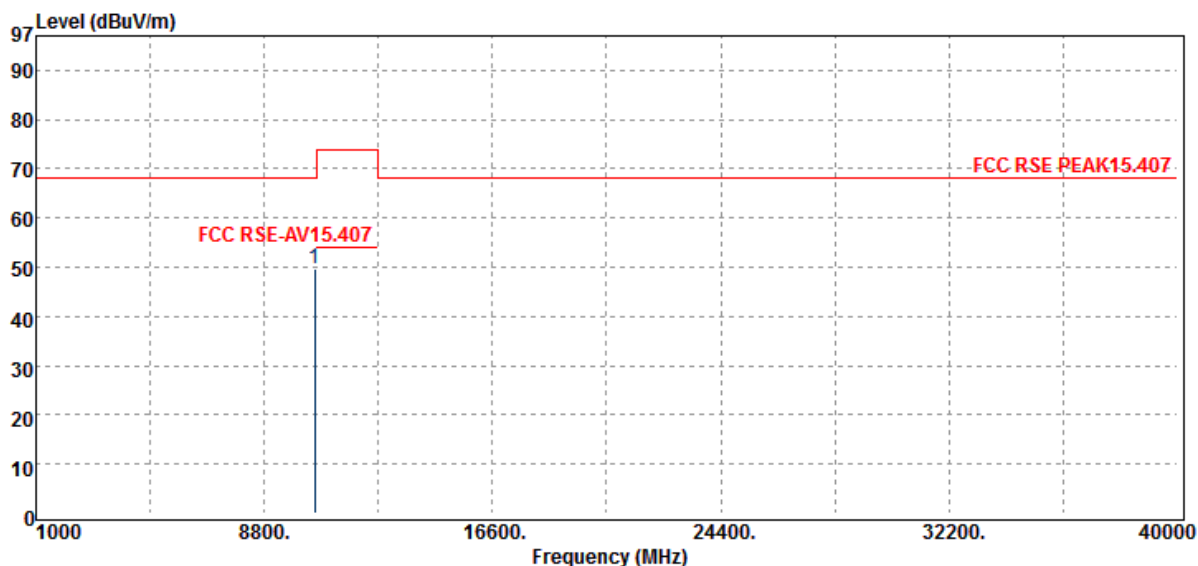
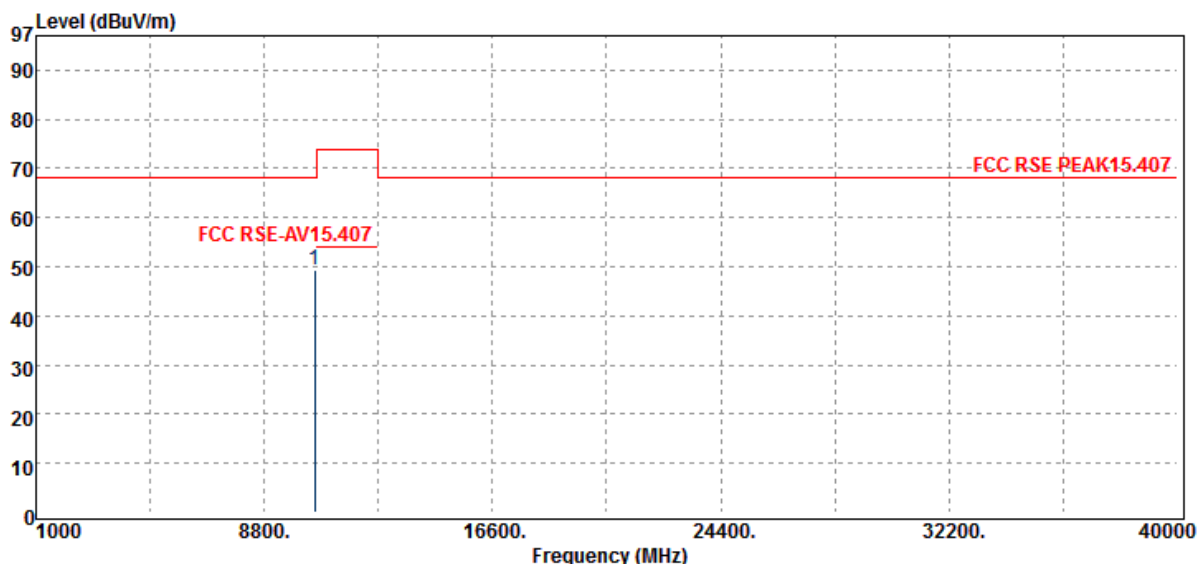
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## 802.11n\_20M 5250-5350MHz

Operation Band :802.11 n20M  
Fundamental Frequency :5260 MHz  
Operation Mode :TX LOW  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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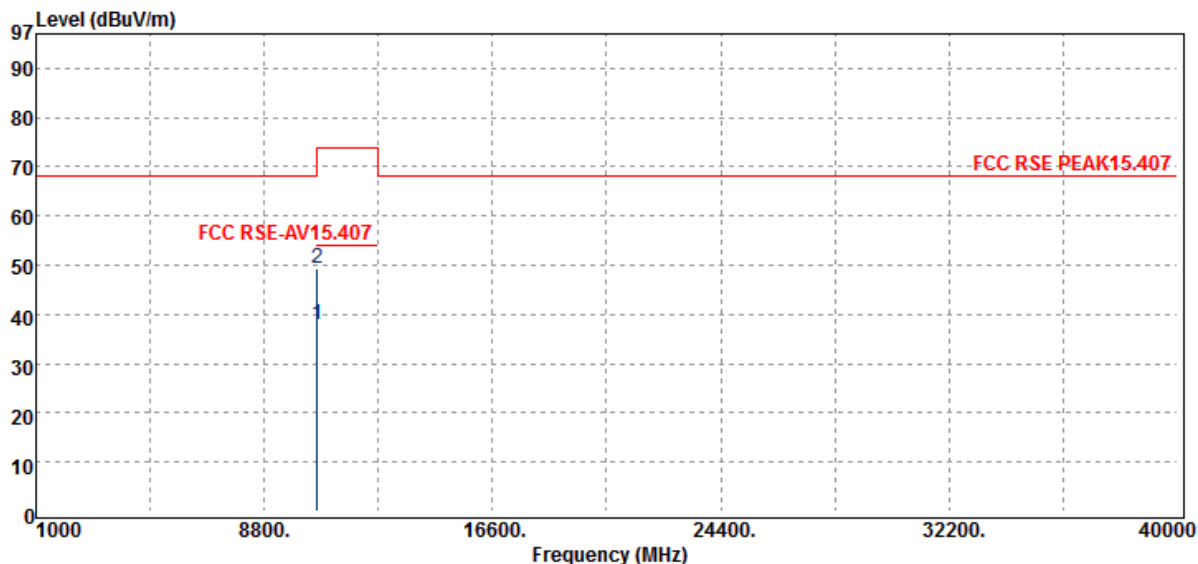
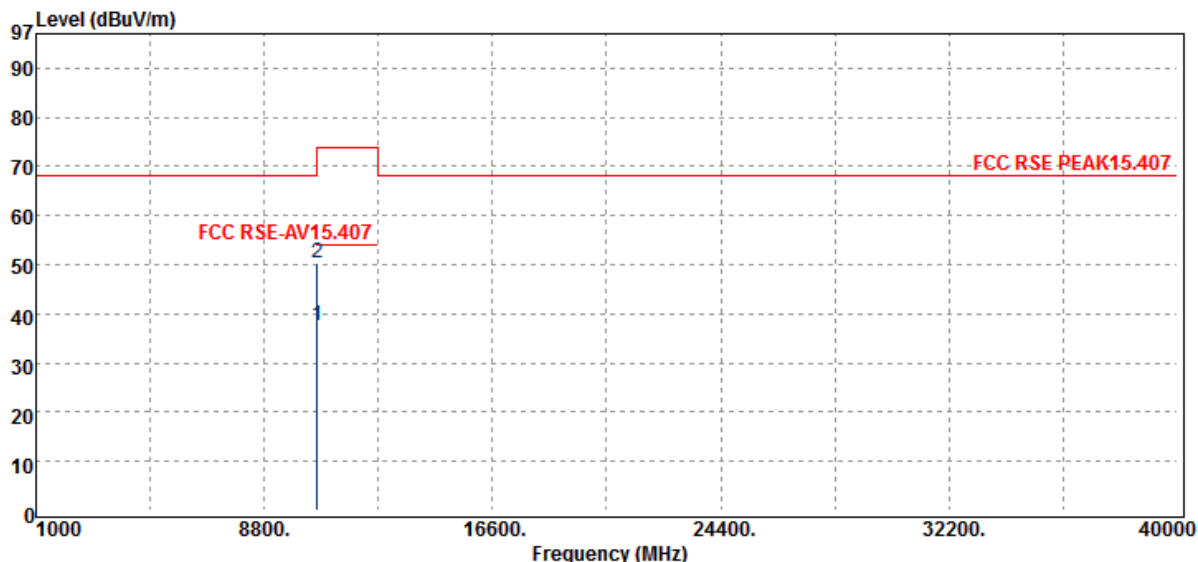
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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5300 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX MID      | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane    | Measurement Antenna Pol. | :Ver. / Hor.      |



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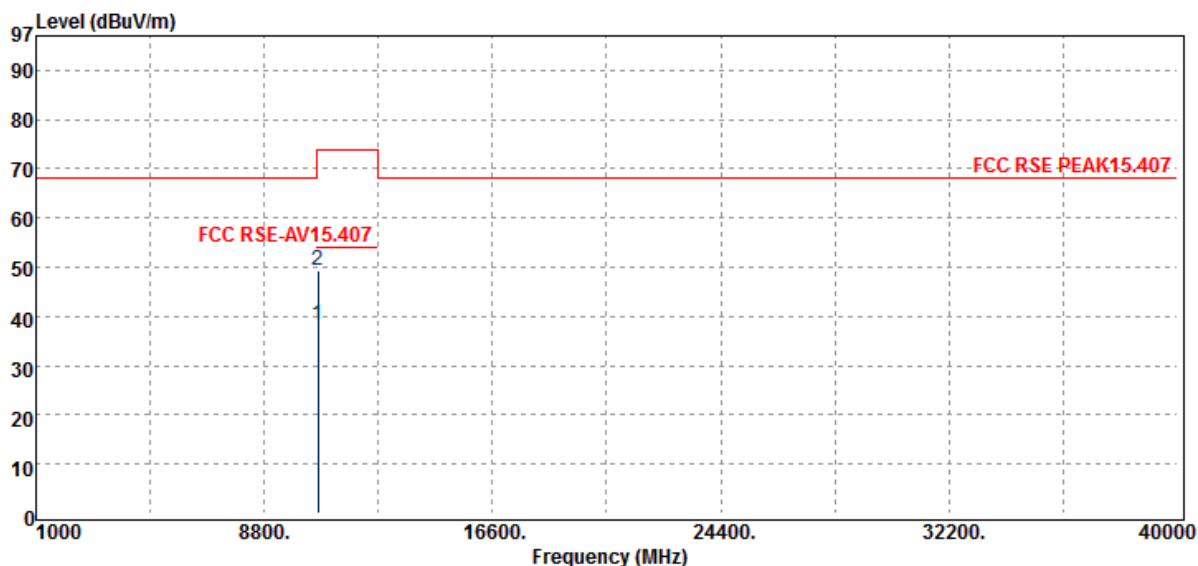
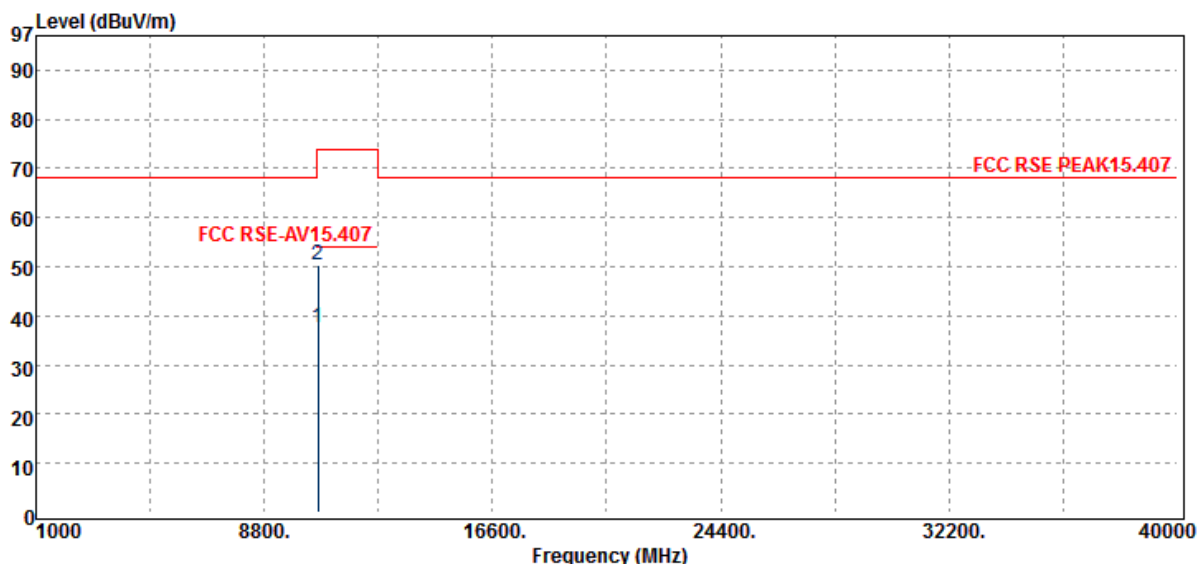
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Operation Band :802.11 n20M  
Fundamental Frequency :5320 MHz  
Operation Mode :TX HIGH  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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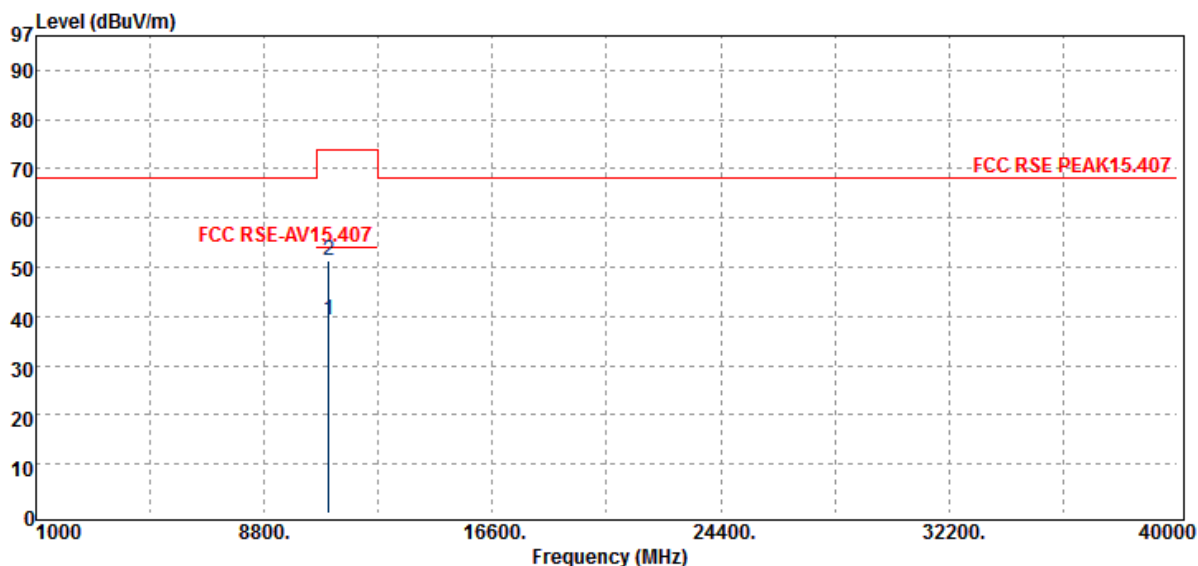
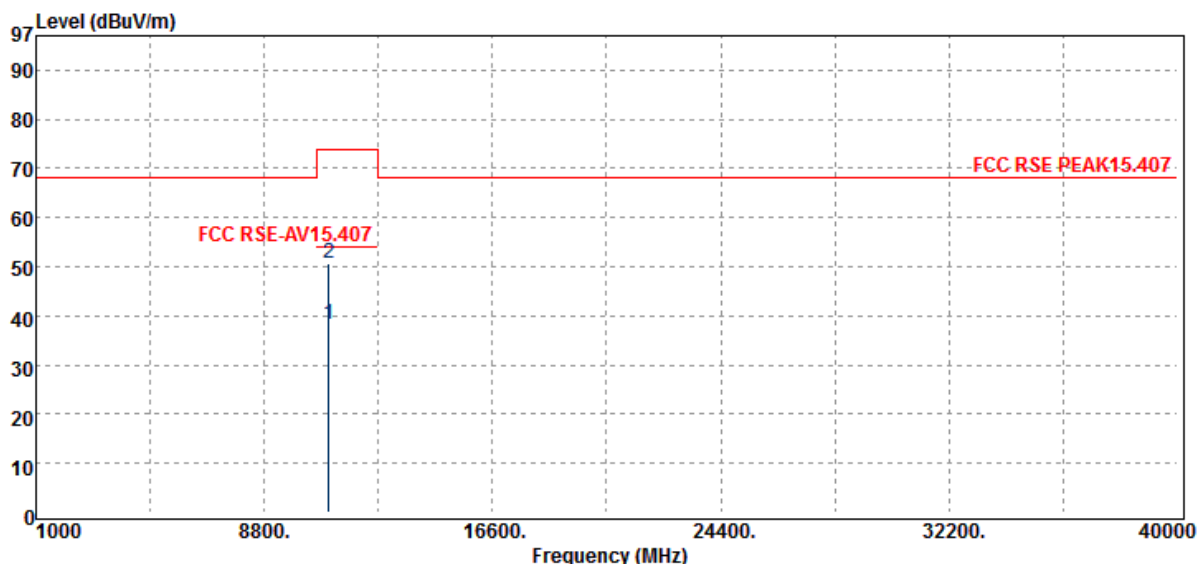
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## 802.11n\_20M 5470-5725MHz

Operation Band :802.11 n20M  
Fundamental Frequency :5500 MHz  
Operation Mode :TX LOW  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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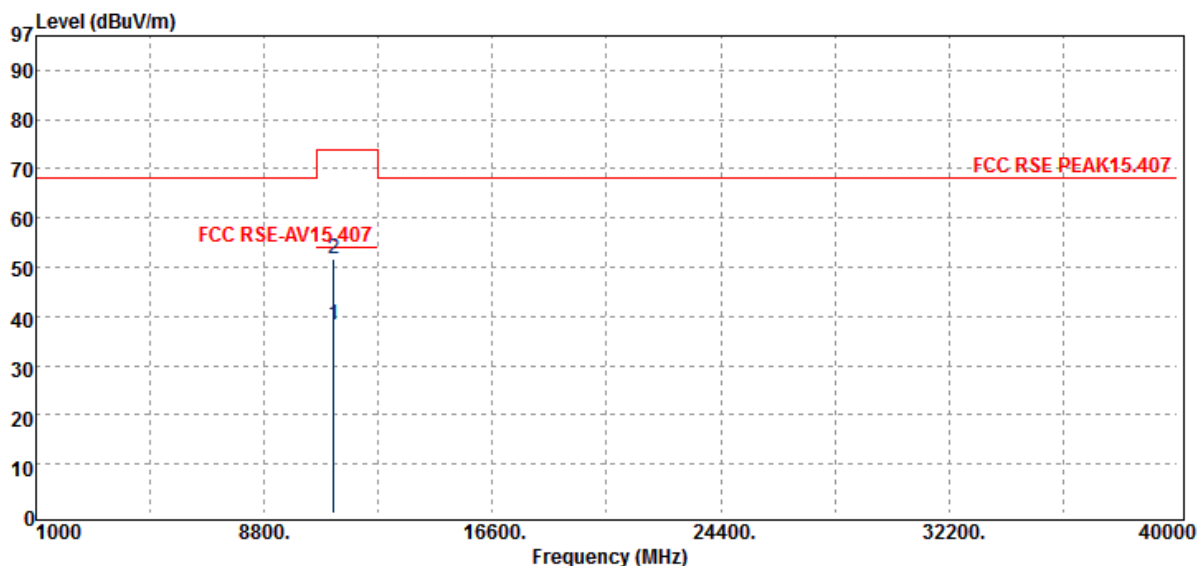
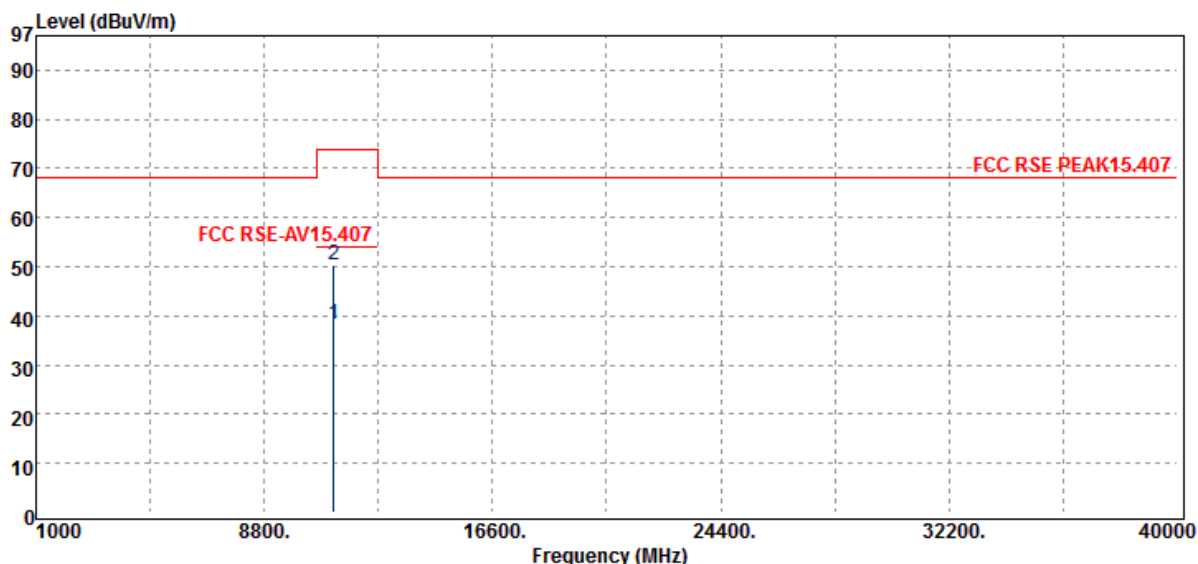
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Operation Band :802.11 n20M  
Fundamental Frequency :5580 MHz  
Operation Mode :TX MID  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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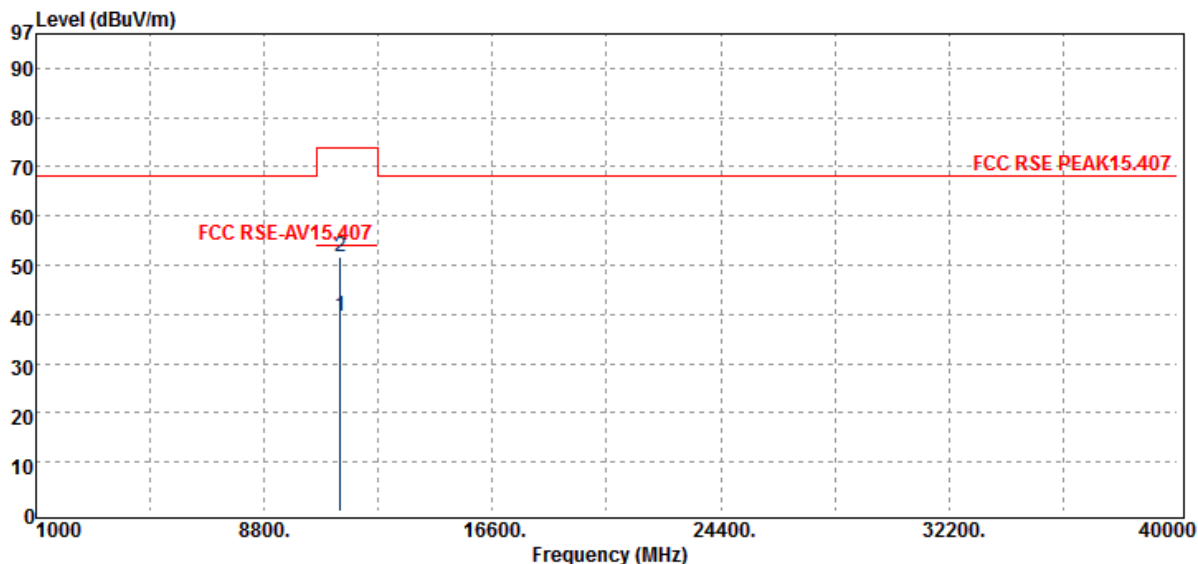
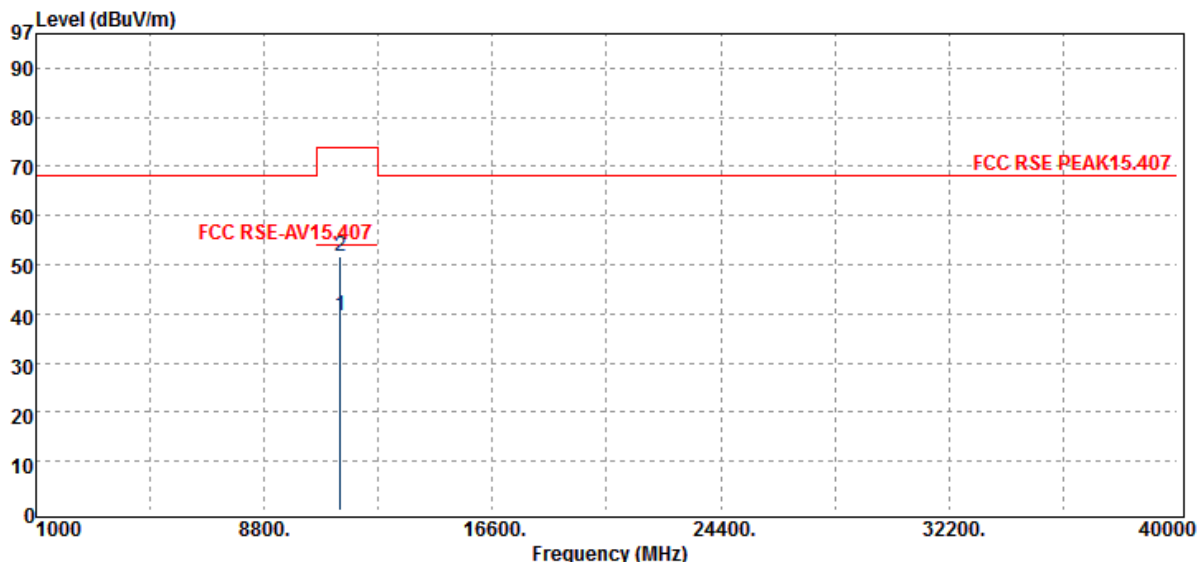
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Operation Band :802.11 n20M  
Fundamental Frequency :5700 MHz  
Operation Mode :TX HIGH  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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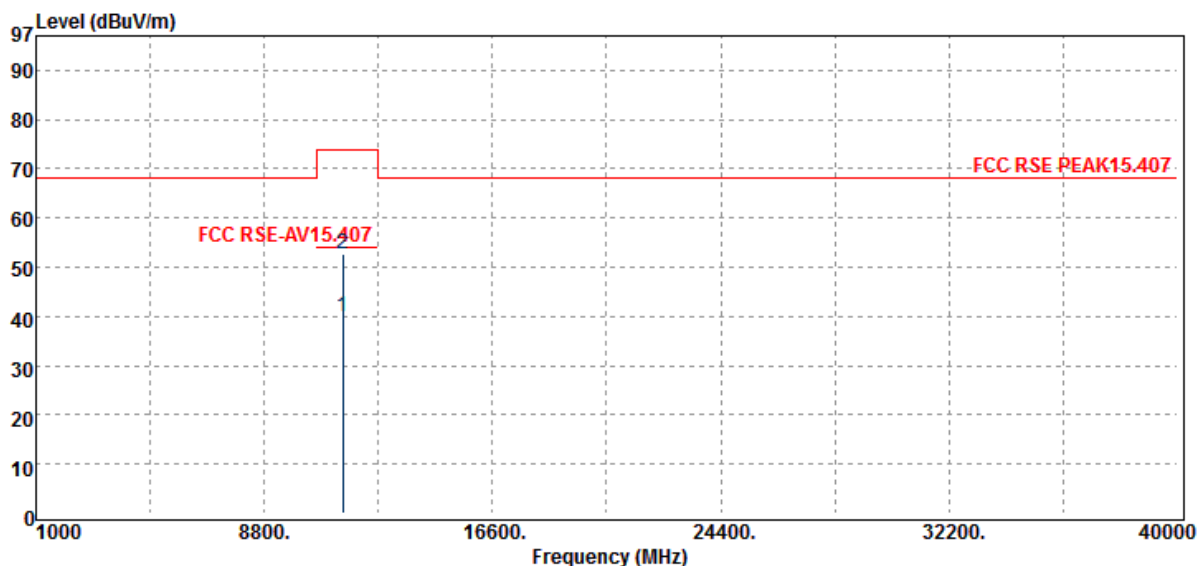
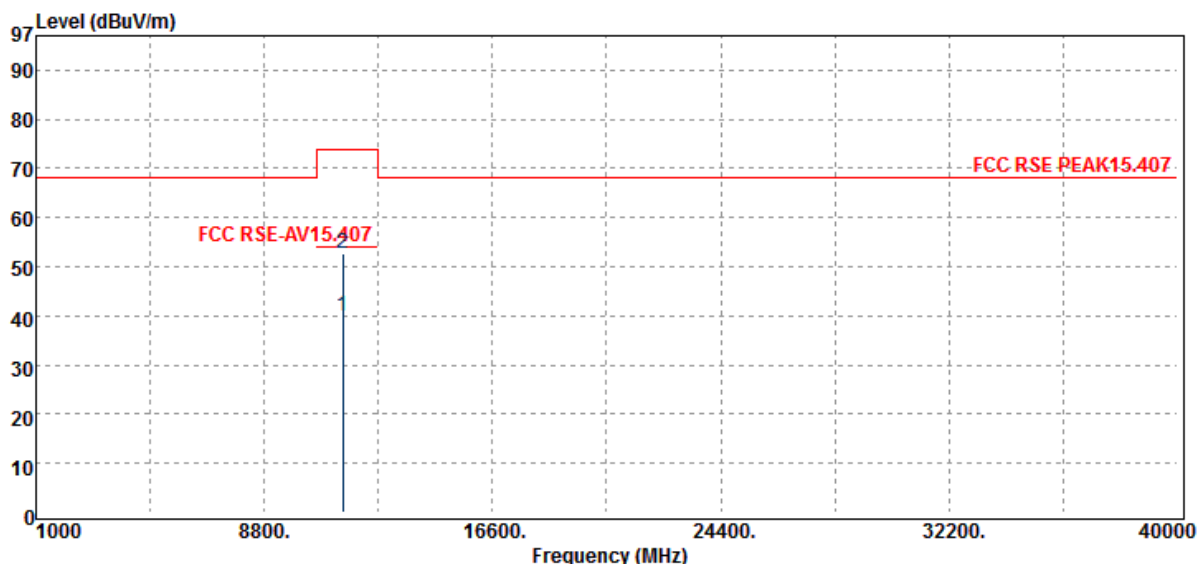
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# 802.11n\_20M 5725-5850MHz

Operation Band :802.11 n20M  
Fundamental Frequency :5745 MHz  
Operation Mode :TX LOW  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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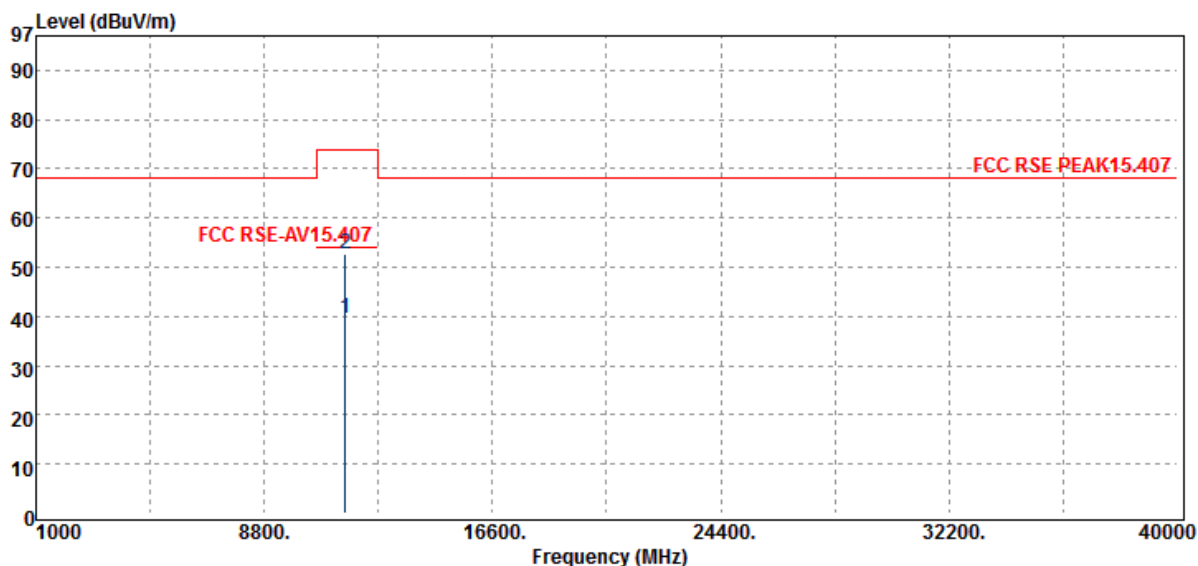
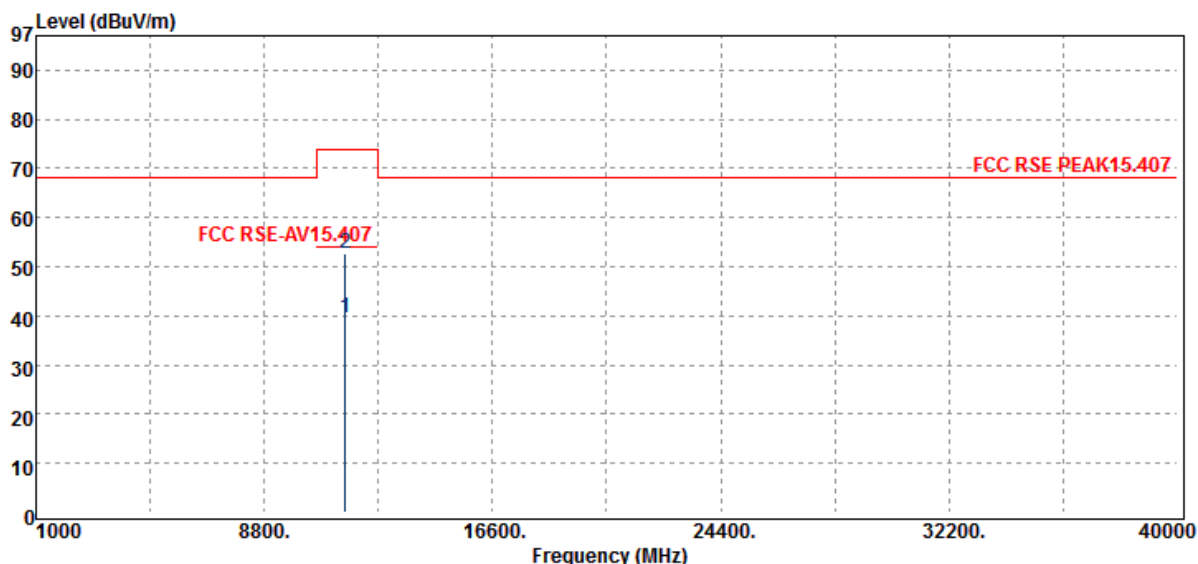
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Operation Band :802.11 n20M  
Fundamental Frequency :5785 MHz  
Operation Mode :TX MID  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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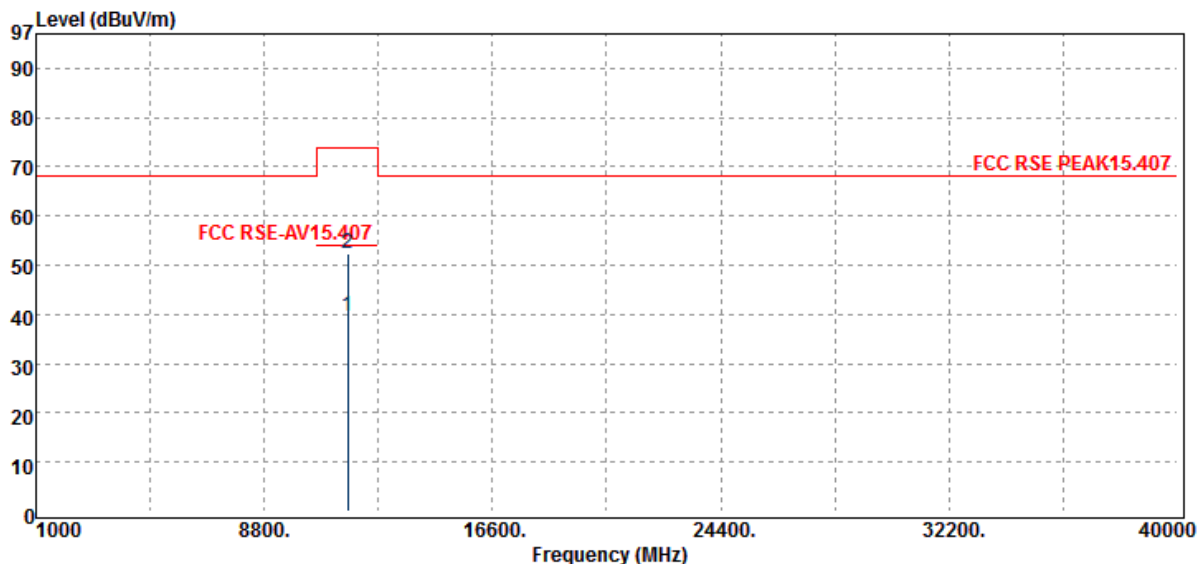
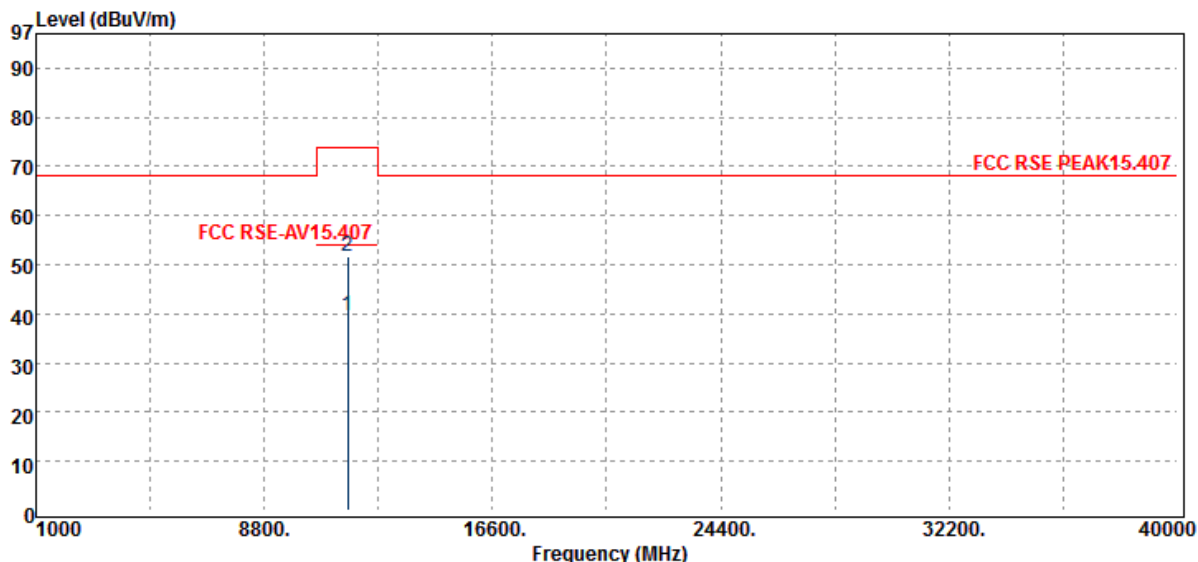
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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2014-11-18       |
| Fundamental Frequency | :5825 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH     | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plane    | Measurement Antenna Pol. | :Ver. / Hor.      |



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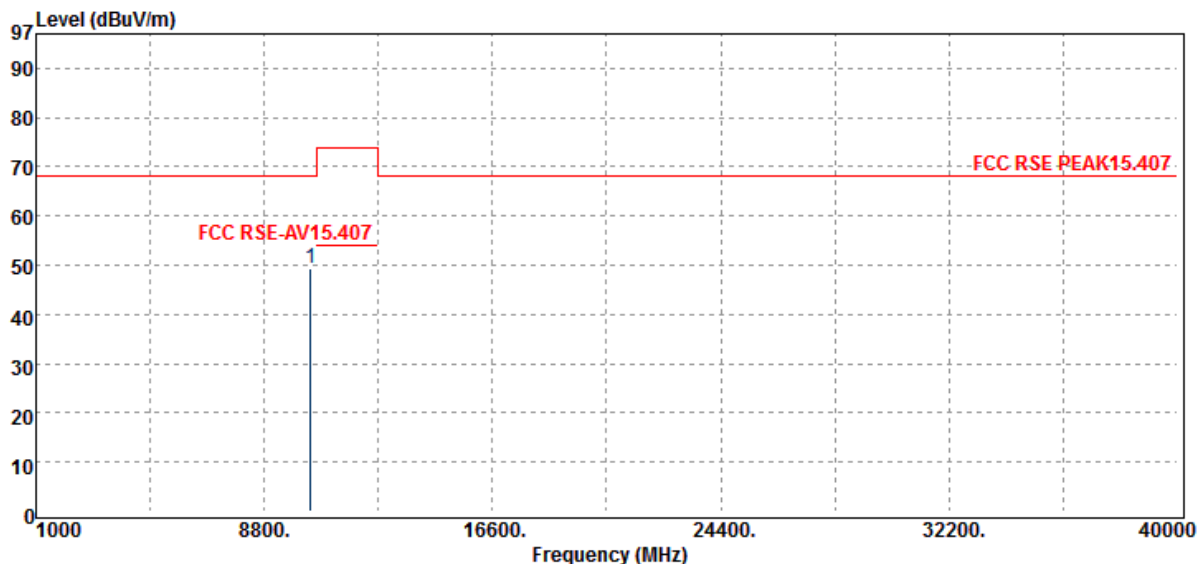
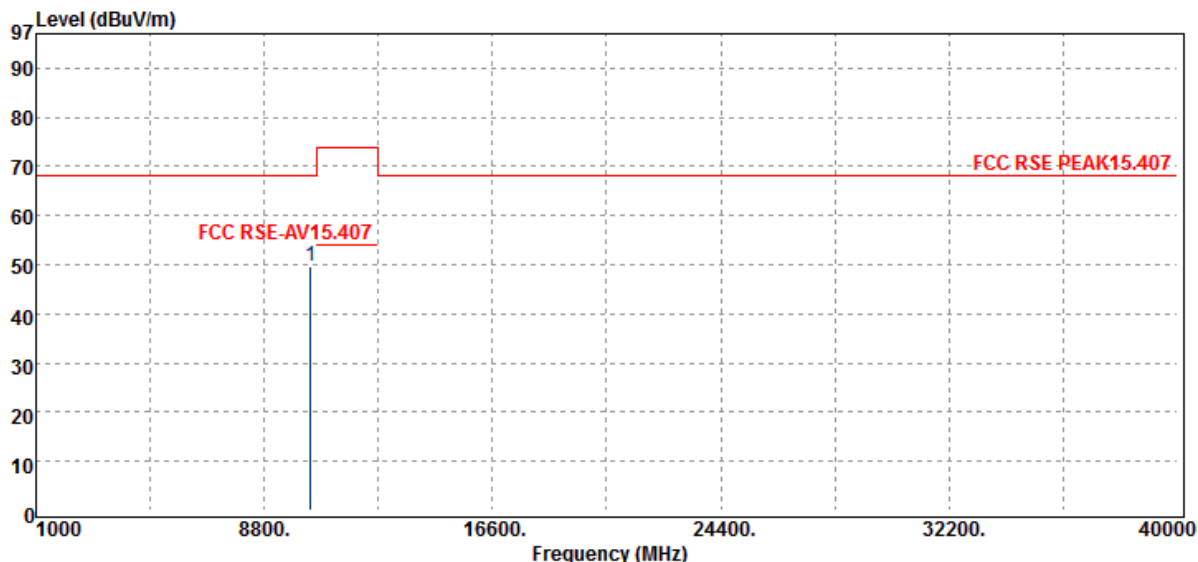
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## 802.11n\_40M 5150-5250MHz

Operation Band :802.11 n40M  
Fundamental Frequency :5190 MHz  
Operation Mode :TX LOW  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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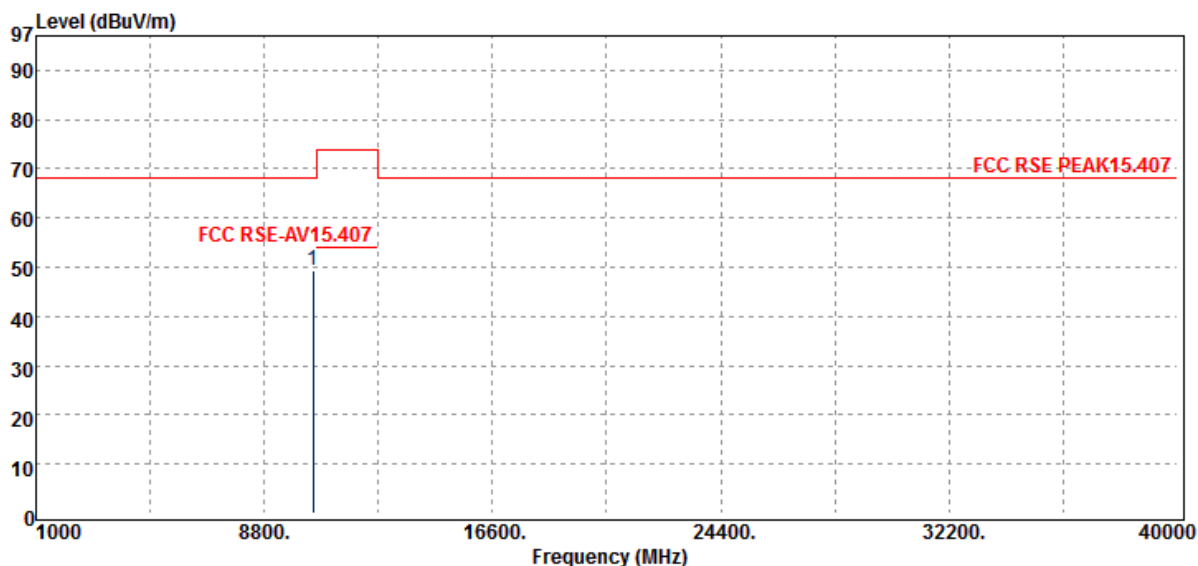
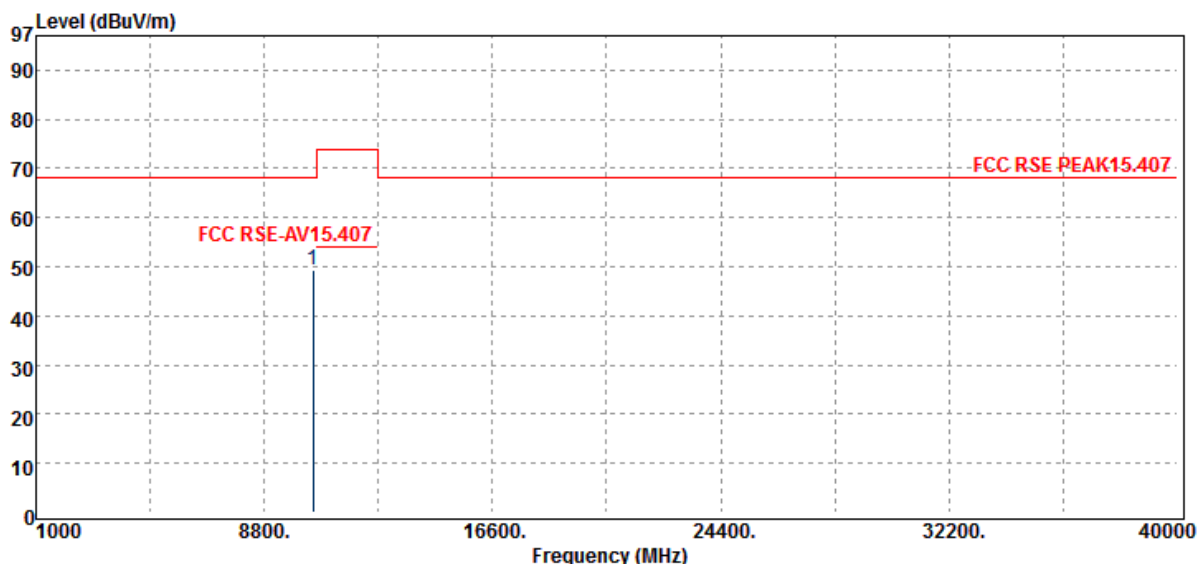
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Operation Band :802.11 n40M  
Fundamental Frequency :5230 MHz  
Operation Mode :TX HIGH  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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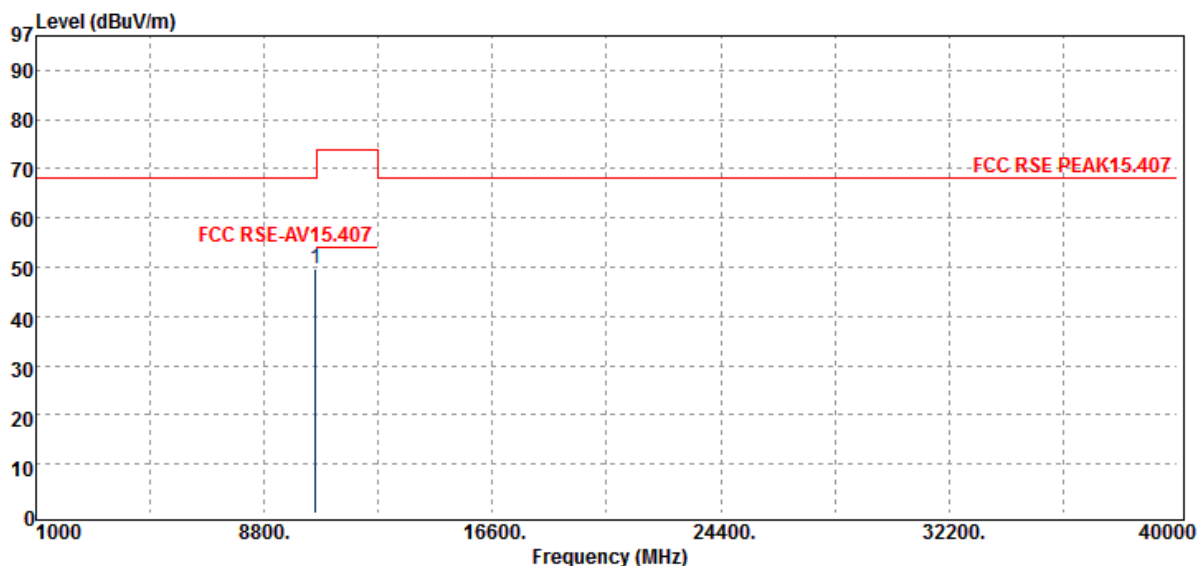
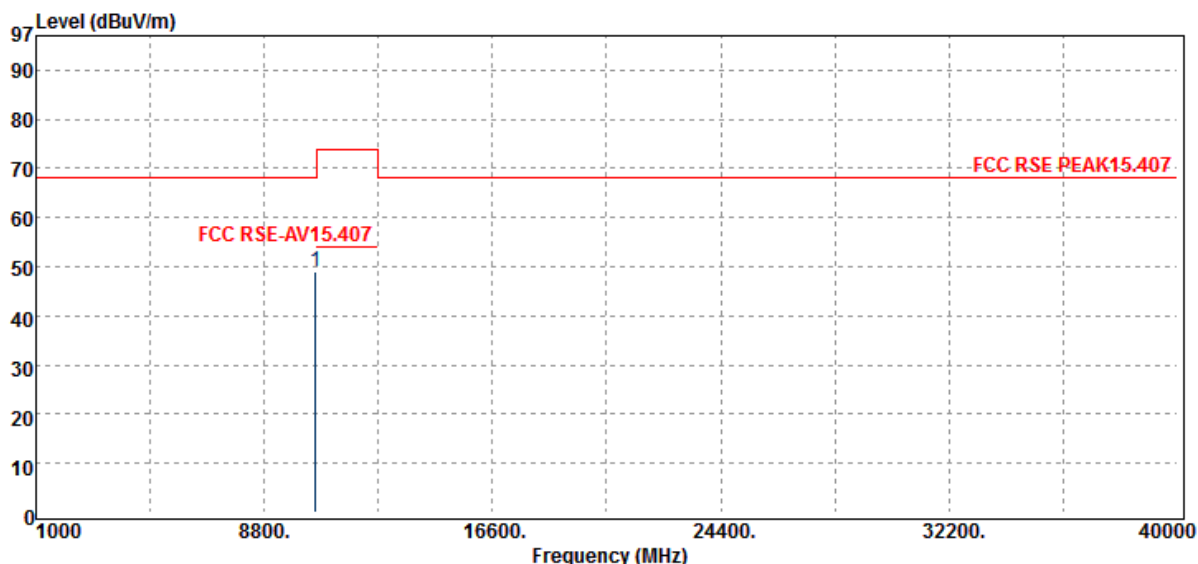
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# 802.11n\_40M 5250-5350MHz

Operation Band :802.11 n40M  
Fundamental Frequency :5270 MHz  
Operation Mode :TX LOW  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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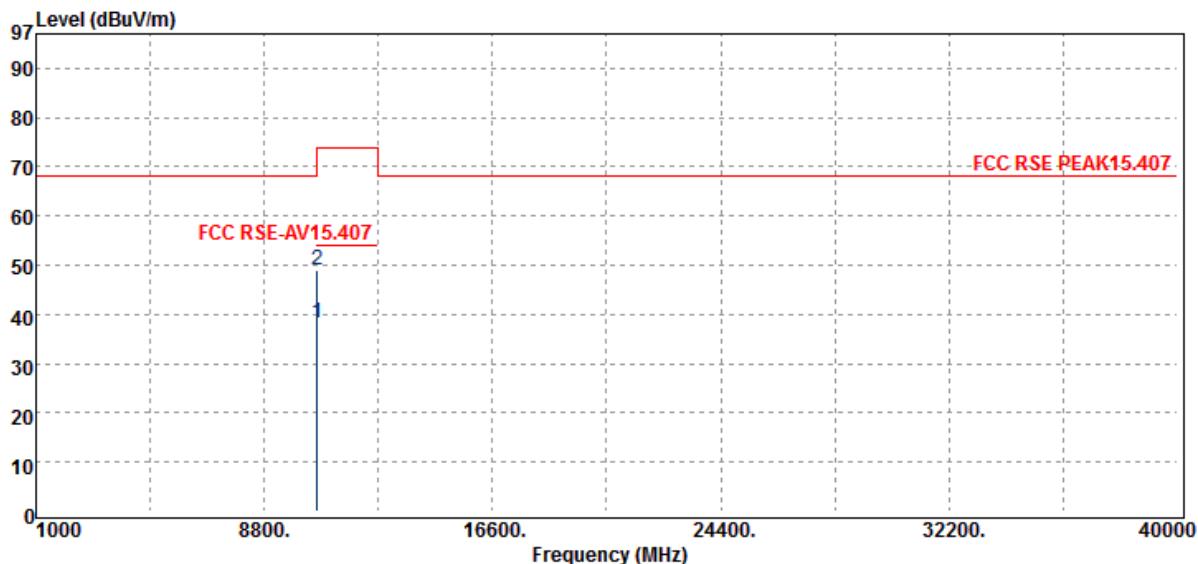
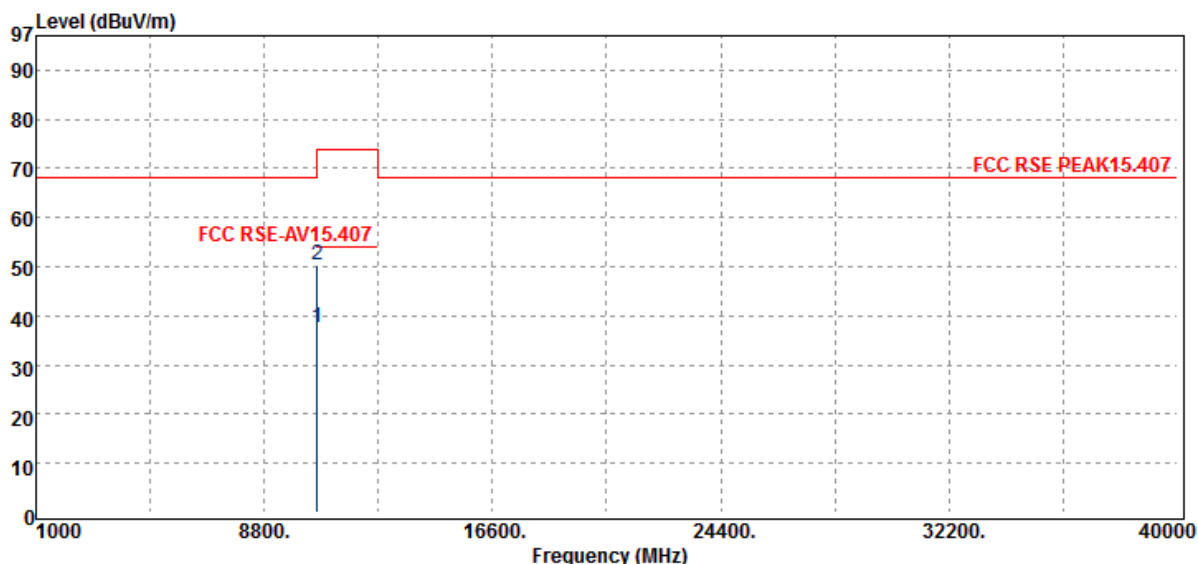
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Operation Band :802.11 n40M  
Fundamental Frequency :5310 MHz  
Operation Mode :TX HIGH  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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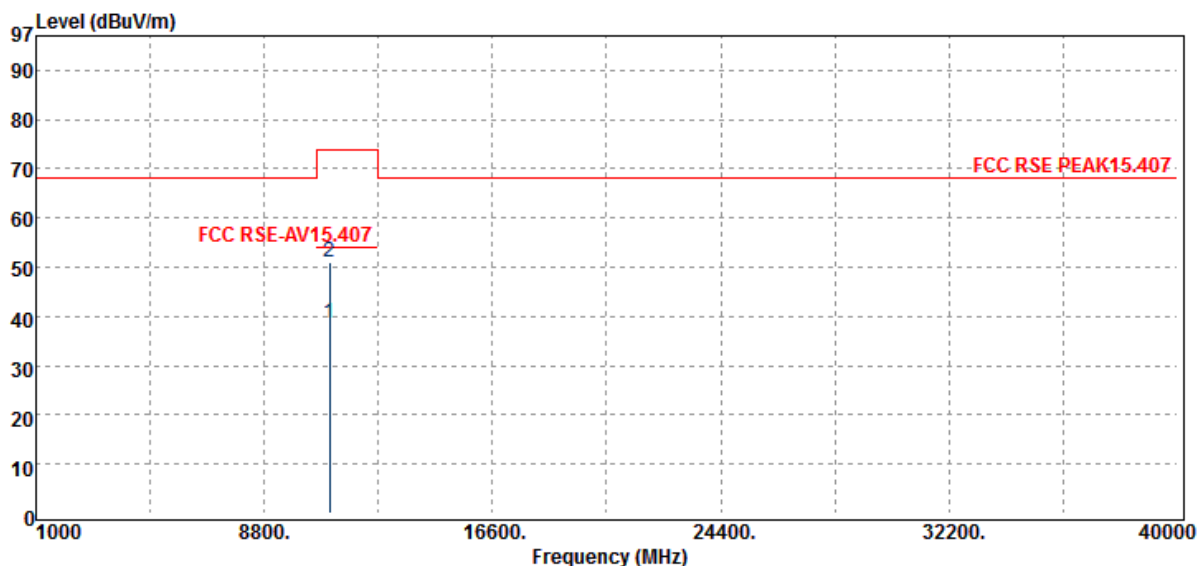
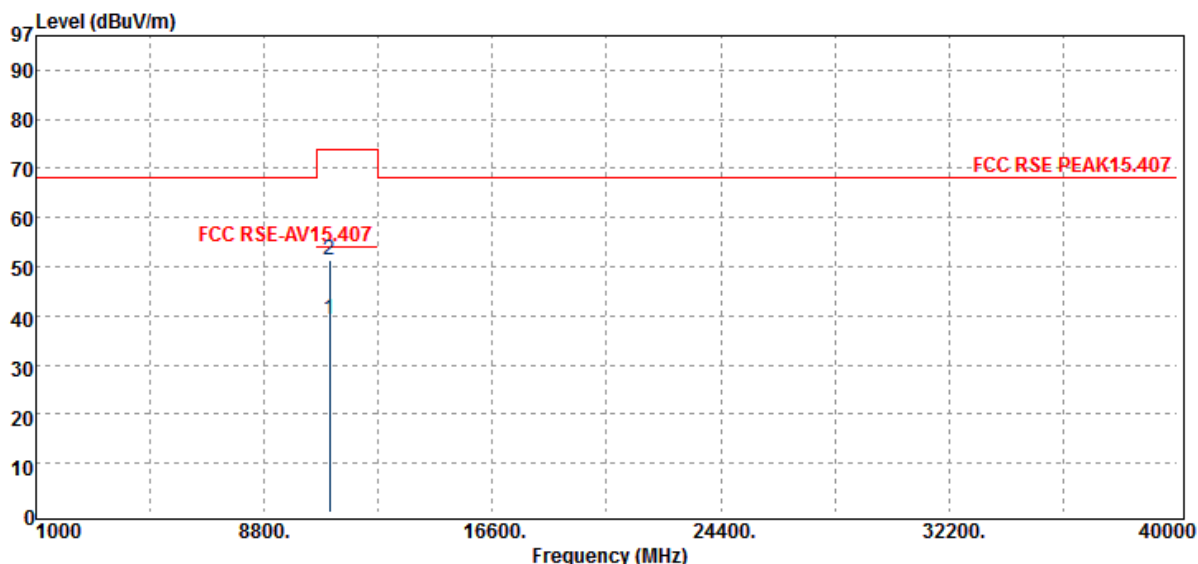
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## 802.11n\_40M 5470-5725MHz

Operation Band :802.11 n40M  
Fundamental Frequency :5510 MHz  
Operation Mode :TX LOW  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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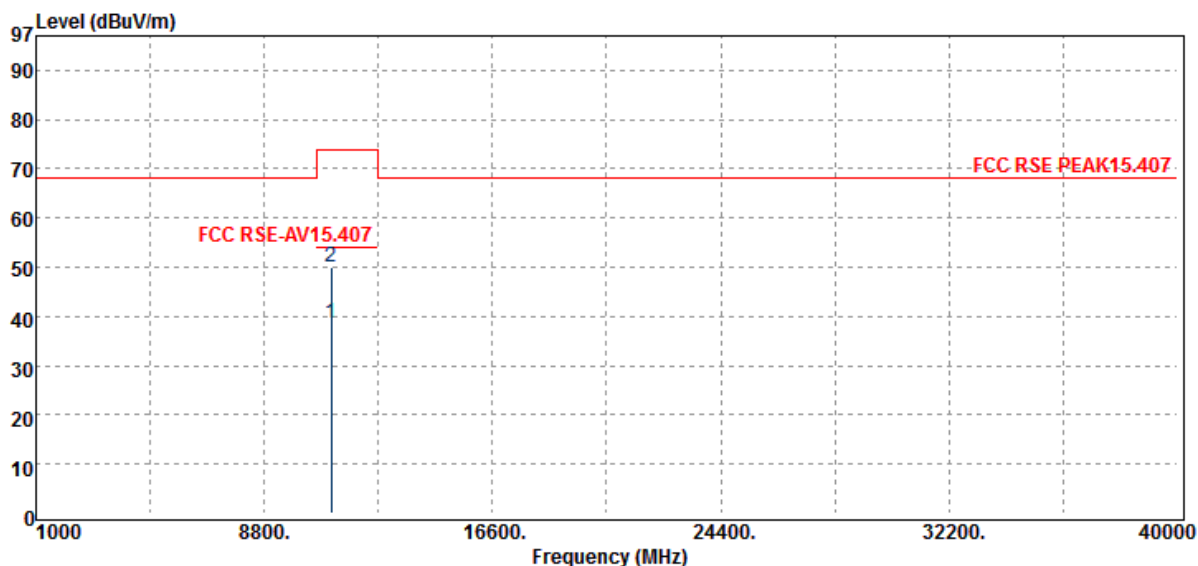
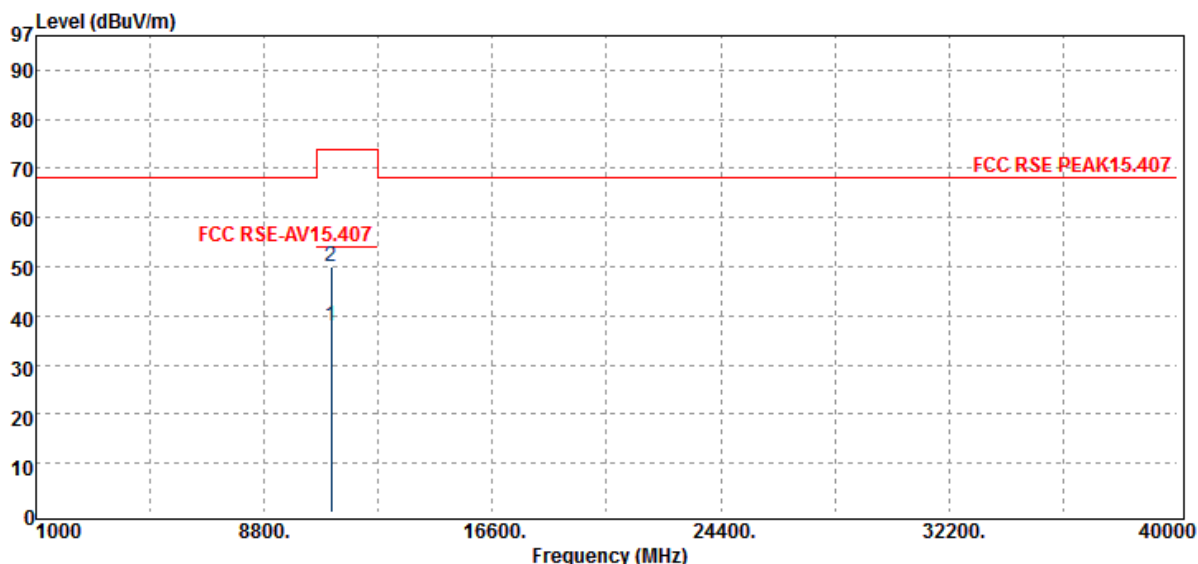
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Operation Band :802.11 n40M  
Fundamental Frequency :5550 MHz  
Operation Mode :TX MID  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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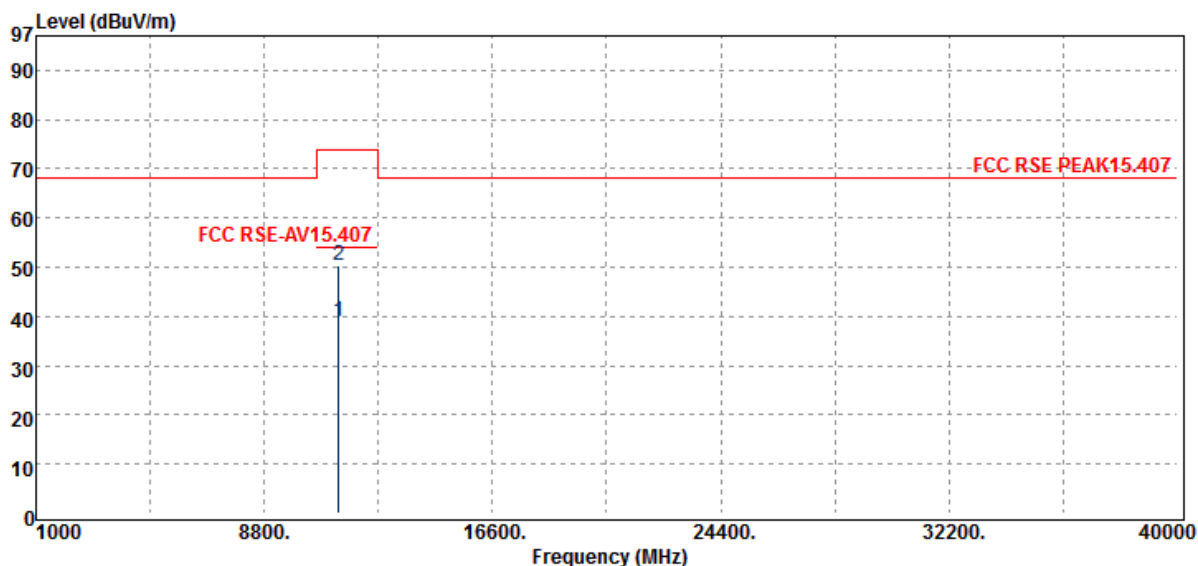
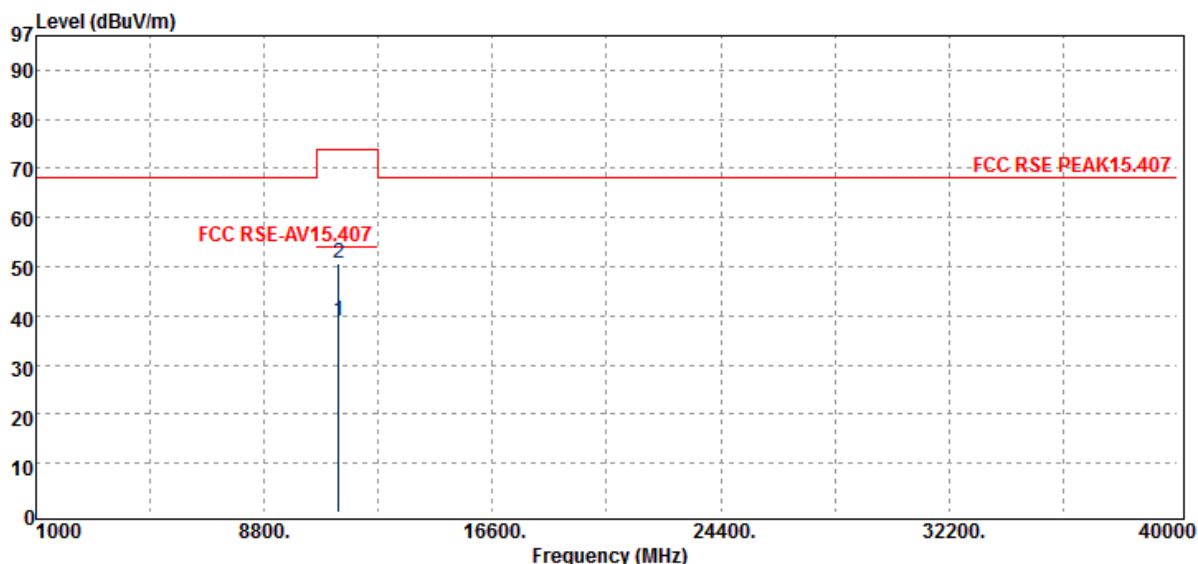
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Operation Band :802.11 n40M  
Fundamental Frequency :5670 MHz  
Operation Mode :TX HIGH  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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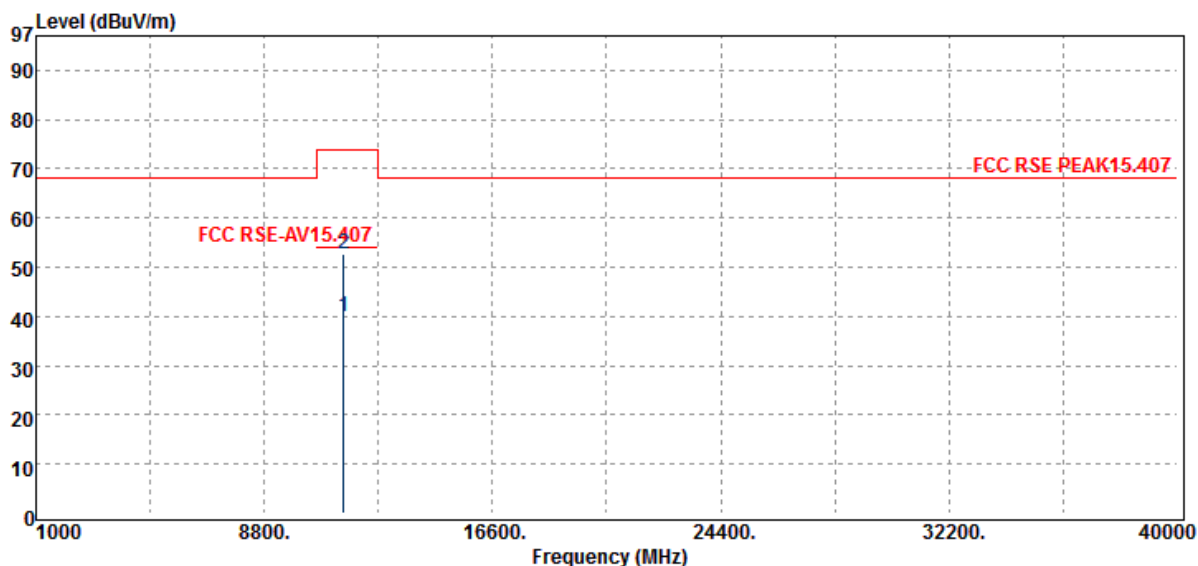
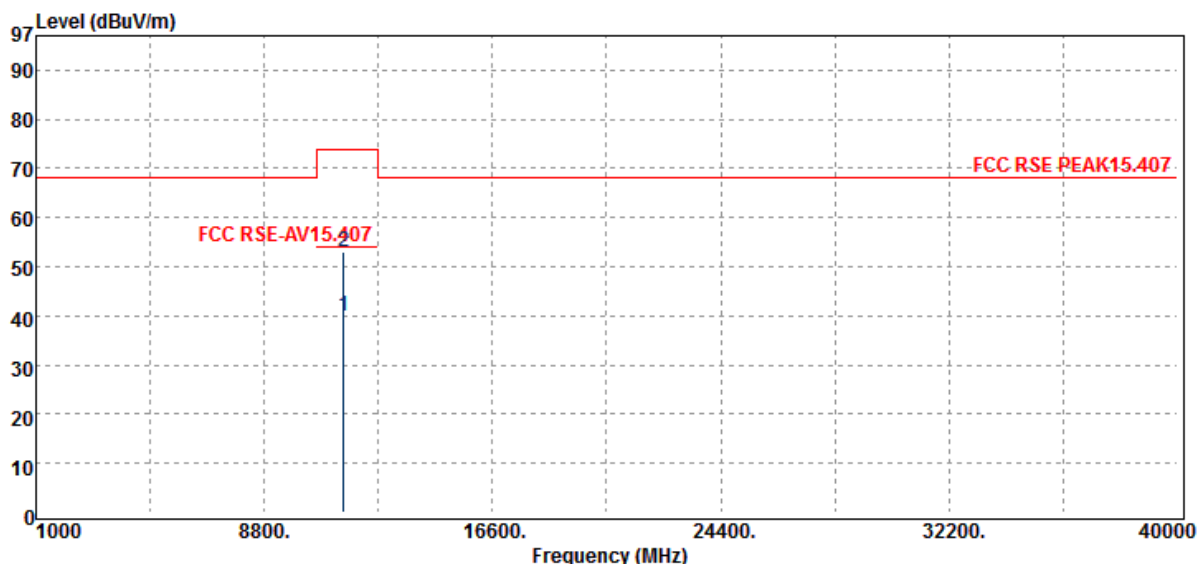
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## 802.11n\_40M 5725-5850MHz

Operation Band :802.11 n40M  
Fundamental Frequency :5755 MHz  
Operation Mode :TX LOW  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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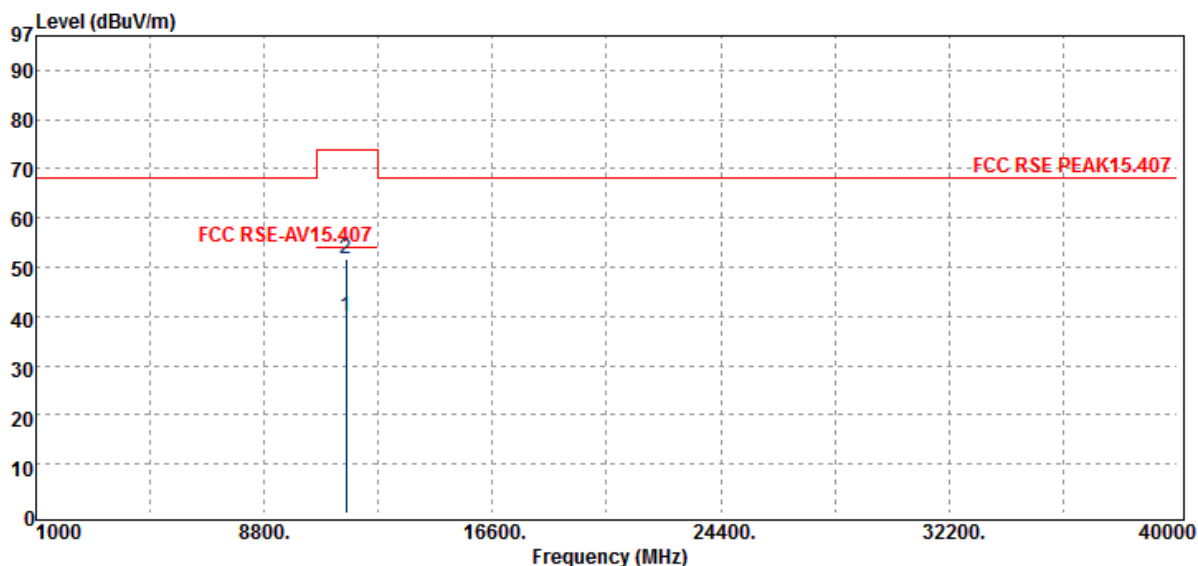
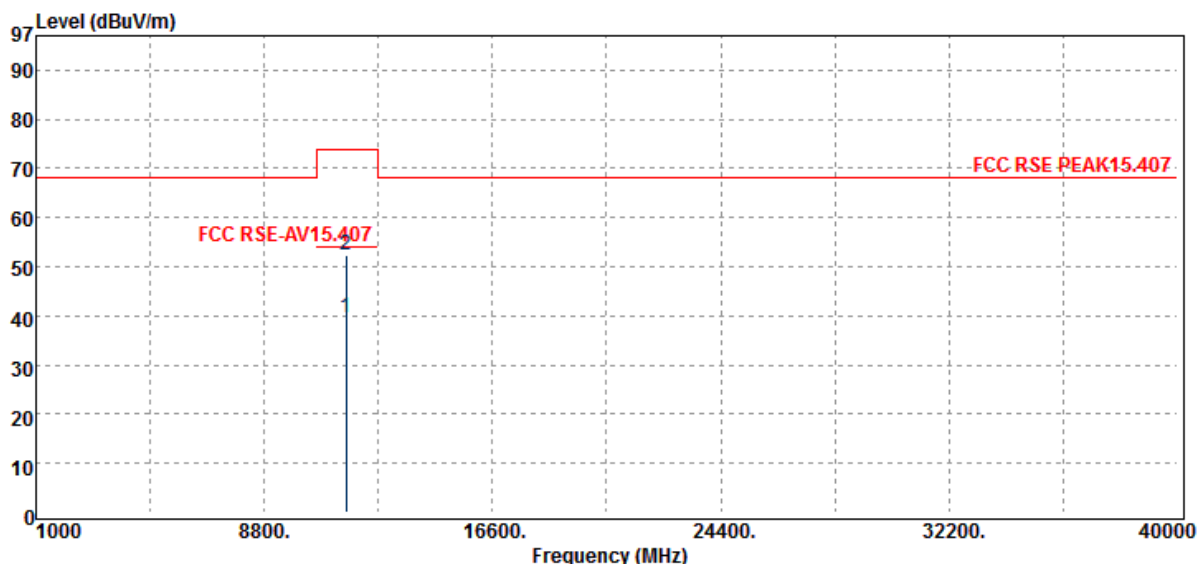
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Operation Band :802.11 n40M  
Fundamental Frequency :5795 MHz  
Operation Mode :TX HIGH  
EUT Pol. :E1 Plane

Test Date :2014-11-18  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :Ver. / Hor.



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