

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-0850-BV
Model Difference: N/A
FCC ID: PY7-PM0850
Report No.: ER/2014/B0013
Issue Date: Jan. 19, 2015
FCC Rule Part: §15.407
Prepared for: Sony Mobile Communications AB
Nya Vattentornet 22188 Lund/Sweden
Prepared by: SGS Taiwan Ltd.
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24803



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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-0850-BV

Model Difference: N/A

FCC ID: PY7-PM0850

File Number: ER/2014/B0013

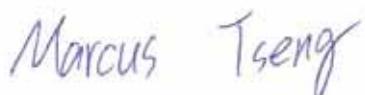
Date of test: Nov. 06, 2014 ~ Nov. 28, 2014

Date of EUT Received: Nov. 06, 2014

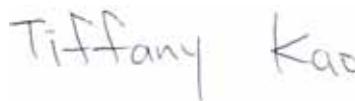
We hereby certify that:

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.

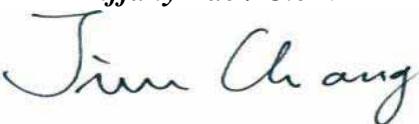
The test results of this report relate only to the tested sample identified in this report.

Test By:**Date:**

Jan. 19, 2015

*Marcus Tseng / Engineer***Prepared By:****Date:**

Jan. 19, 2015

*Tiffany Kao / Clerk***Approved By:****Date:**

Jan. 19, 2015

Jim Chang / Supervisor

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Revision History

Report Number	Revision	Description	Issue Date
ER/2014/B0013	Rev.00	Initial creation of document	Nov. 28, 2014
ER/2014/B0013	Rev.01	Updated HW, SW, and internal photo	Jan. 09, 2015
ER/2014/B0013	Rev.02	Added 5725-5850MHz Bandedge Limit	Jan. 19, 2015

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1. GENERAL INFORMATION

1.1. Product Description

General:

Product Name:	Mobile Phone
Brand Name:	Sony
Type No.:	PM-0850-BV
Model Difference:	N/A
Data Cable (USB):	Model No.: EC450, Supplier: K-one Type No.: AI-0700, Length: 100 cm
Simple Hands-Free (SHF-White):	Model No.: MH410c, Supplier: Foster Electric Type No.: AG-1100
Car Charger:	Model No.: AN400, Supplier: Salcomp Type No.: CAA-0003013
BT PHF:	Model No.: SBH20, Supplier: Sony 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 Type No.: N/A
	Adapter: Model No.: EP800, Supplier: Salcomp 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

NFC:

Operating Frequency	13.56MHz
Transmit Power	< 123dBuV/m at 3m.
Number of Channels	1
Antenna Type	Loop Antenna
Modulation Type	ASK, BPSK

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WLAN 2.4GHz:

Wi-Fi	Frequency Range	Channels	Rated Power	Modulation Technology
11b/g	2412-2462	11	b: 18.87dBm 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 64QAM, 16QAM, QPSK, BPSK for OFDM			
Transition Rate:	802.11 b: 1/2/5.5/11 Mbps; 802.11 g: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 72.2Mbps 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 5150~5250	4	HT20: 12.99dBm	OFDM	
	HT20 5250~5350	4	HT20: 12.95dBm		
	HT20 5470~5725	8	HT20: 12.99dBm		
	HT20 5725~5850	5	HT20: 12.79dBm		
11n	HT40 5150~5250	2	HT40: 11.95dBm	OFDM	
	HT40 5250~5350	2	HT40: 11.93dBm		
	HT40 5470~5725	3	HT40: 11.96dBm		
	HT40 5725~5850	2	HT40: 11.98dBm		
Antenna Designation	PIFA Antenna, 5GHz Gain: -0.54dBi (5150MHz-5250MHz) 5GHz Gain: -0.89dBi (5250MHz-5350MHz) 5GHz Gain: -0.34dBi (5470MHz-5725MHz) 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 802.11 n_20MHz: 6.5 – 65.0Mbps 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 V	826.4MHz - 846.6MHz	24dBm
	1.4MHz BW LTE-Band 2	1850.7MHz– 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	1855.0MHz – 1905.0MHz	23dBm
	15MHz BW LTE-Band 2	1857.5MHz – 1902.5MHz	23dBm
	20MHz BW LTE-Band 2	1860.0MHz – 1900.0MHz	23dBm
	1.4MHz BW LTE-Band 5	824.7MHz – 848.3MHz	23dBm
	3MHz BW LTE-Band 5	825.5MHz – 848.3MHz	23dBm
	5MHz BW LTE-Band 5	826.5MHz – 846.5MHz	23dBm
	10MHz BW LTE-Band 5	829.0MHz – 844.0MHz	23dBm
	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
	15MHz BW LTE-Band 7	2510.0MHz – 2560.0MHz	23dBm

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Type of Emission:	GSM 850: 250KGXW, GSM 1900: 248KGXW GPRS 850: 250KGXW, GPRS 1900: 247KGXW EDGE 850: 250KG7W, EDGE 1900: 253KG7W WCDMA Band II: 4M23F9W, WCDMA Band V: 4M23F9W HSDPA Band II: 4M20F9W, HSDPA Band V: 4M22F9W HSUPA Band II: 4M21F9W, HSUPA Band V: 4M22F9W 1.4MHz BW LTE-Band 2 QPSK: 1M10G7D 1.4MHz BW LTE-Band 2 16QAM: 1M10D7W 3MHz BW LTE-Band 2 QPSK: 2M71G7D 3MHz BW LTE-Band 2 16QAM: 2M71D7W 5MHz BW LTE-Band 2 QPSK: 4M55G7D 5MHz BW LTE-Band 2 16QAM: 4M53D7W 10MHz BW LTE-Band 2 QPSK: 8M98G7D 10MHz BW LTE-Band 2 16QAM: 8M99D7W 15MHz BW LTE-Band 2 QPSK: 13M53G7D 15MHz BW LTE-Band 2 16QAM: 13M52D7W 20MHz BW LTE-Band 2 QPSK: 18M00G7D 20MHz BW LTE-Band 2 16QAM: 18M00D7W 1.4MHz BW LTE-Band 5 QPSK: 1M10G7D 1.4MHz BW LTE-Band 5 16QAM: 1M10D7W 3MHz BW LTE-Band 5 QPSK: 2M70G7D 3MHz BW LTE-Band 5 16QAM: 2M71D7W 5MHz BW LTE-Band 5 QPSK: 4M54G7D 5MHz BW LTE-Band 5 16QAM: 4M53D7W 10MHz BW LTE-Band 5 QPSK: 9M03G7D 10MHz BW LTE-Band 5 16QAM: 9M05D7W 5MHz BW LTE-Band 7 QPSK: 4M53G7D 5MHz BW LTE-Band 7 16QAM: 4M53D7W 10MHz BW LTE-Band 7 QPSK: 9M23G7D 10MHz BW LTE-Band 7 16QAM: 9M22D7W 15MHz BW LTE-Band 7 QPSK: 13M93G7D 15MHz BW LTE-Band 7 16QAM: 13M95D7W 20MHz BW LTE-Band 7 QPSK: 18M72G7D 20MHz BW LTE-Band 7 16QAM: 18M70D7W
IMEI:	00440245353087

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		Datarate(Mbps)			
					20MHz		40MHz		20MHz		40MHz	
					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-PM0850** 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 placed on a 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 placed on a 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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2.4. Configuration of Tested System

Fig. 2-1 Radiated Emission

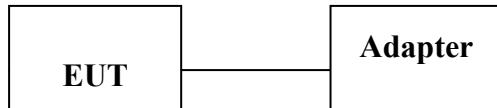


Fig. 2-2 Conducted (Antenna Port) Configuration

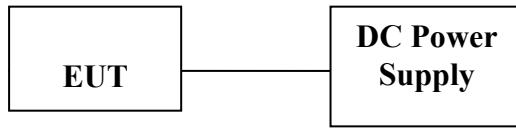


Table 2-1 Equipment Used in Tested System

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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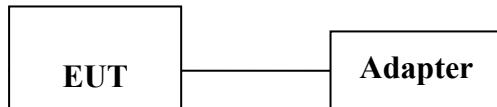
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Fig. 2-3 AC Power Line Conducted Emission**Table 2-2 Equipment Used in Tested System**

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN 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.

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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 ~ 4.3ms

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

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

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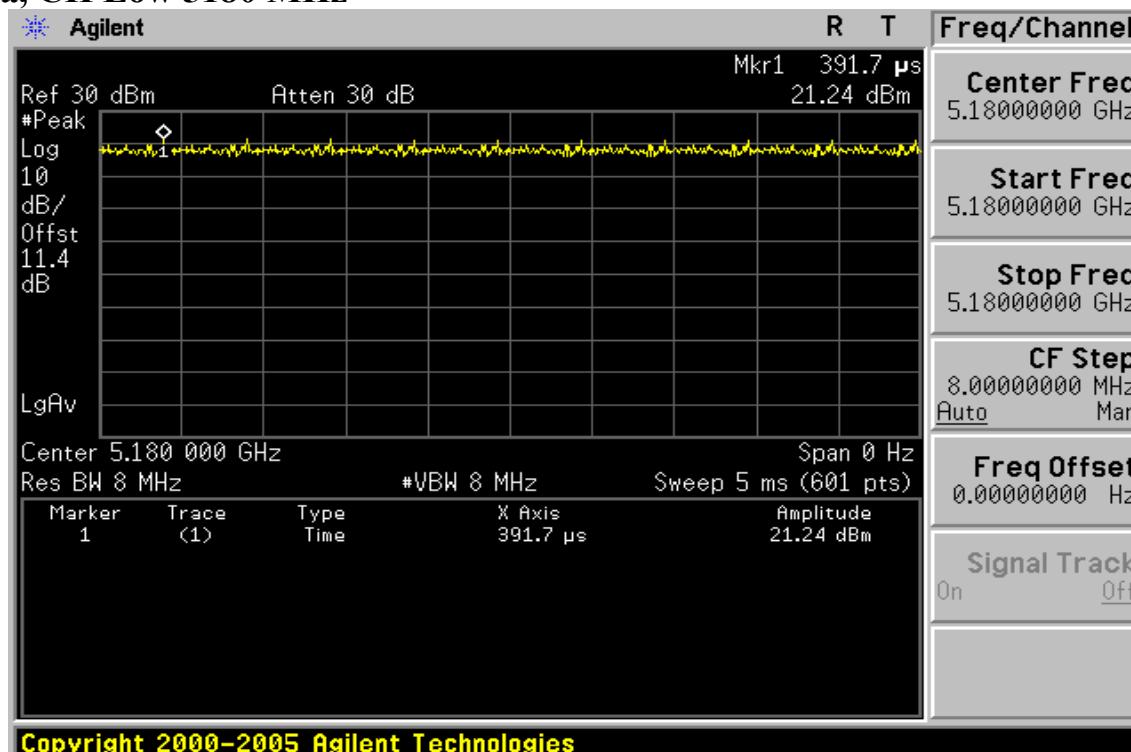
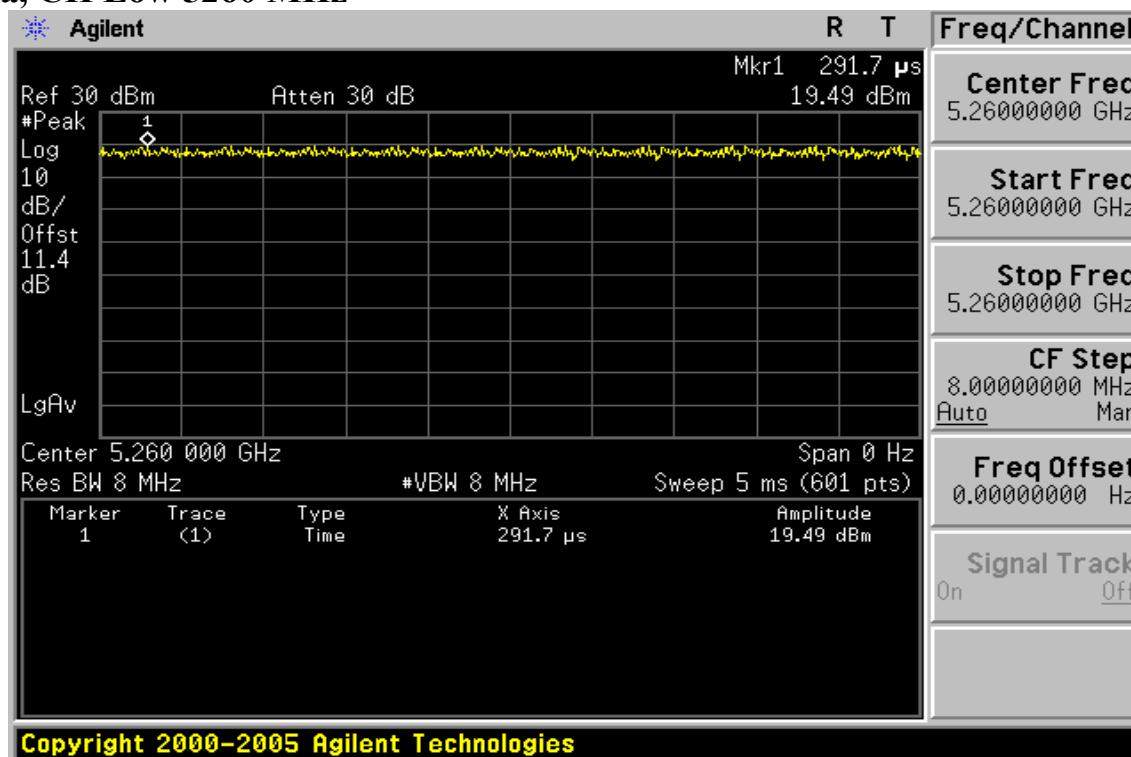
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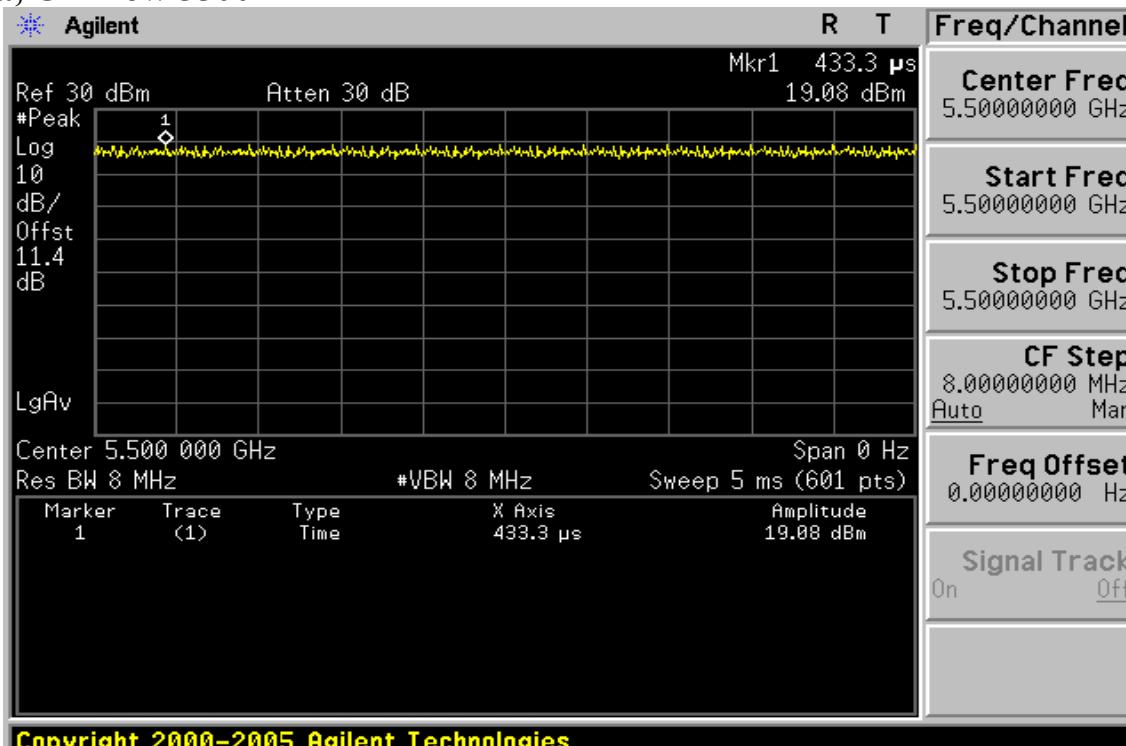
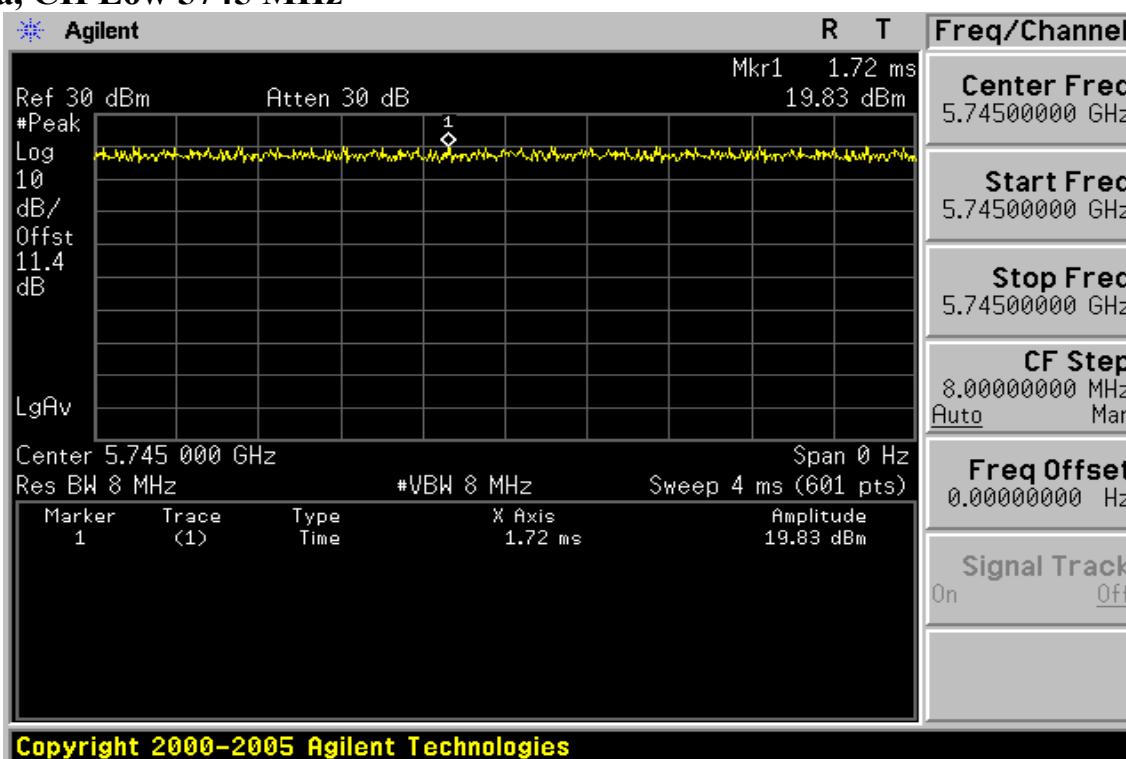
**DUTY CYCLE OF TEST SIGNAL
802.11a, CH Low 5180 MHz****802.11a, CH Low 5260 MHz**

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802.11a, CH Low 5500 MHz**802.11a, CH Low 5745 MHz**

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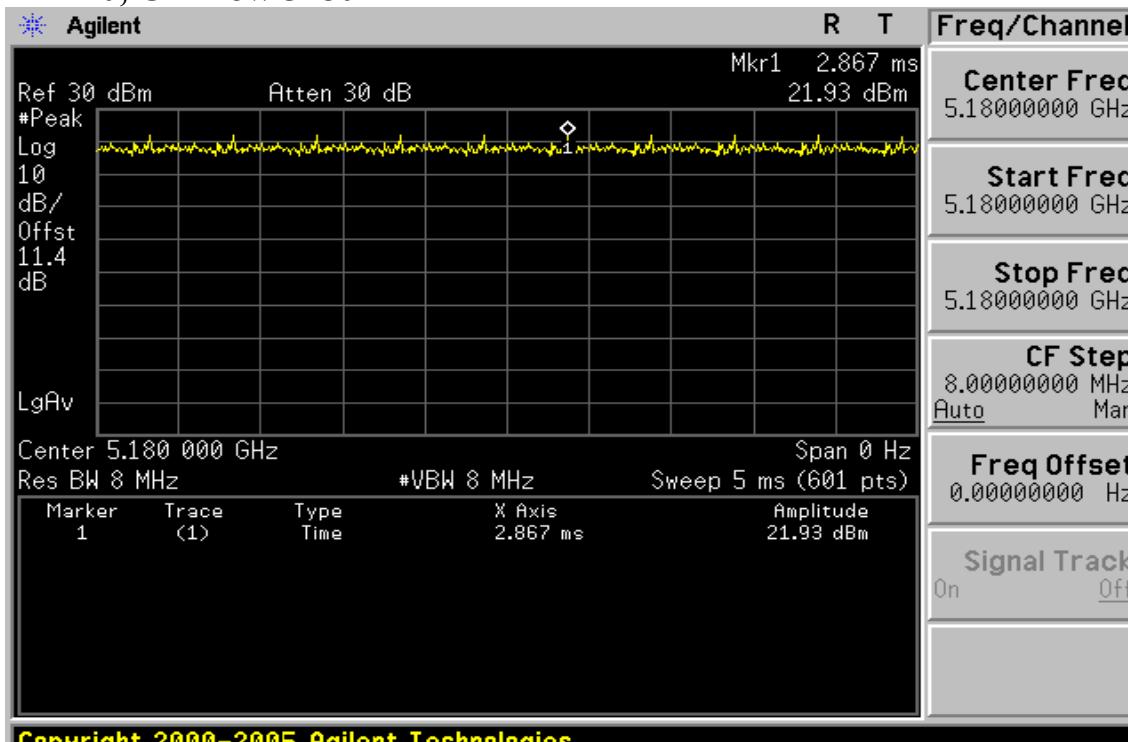
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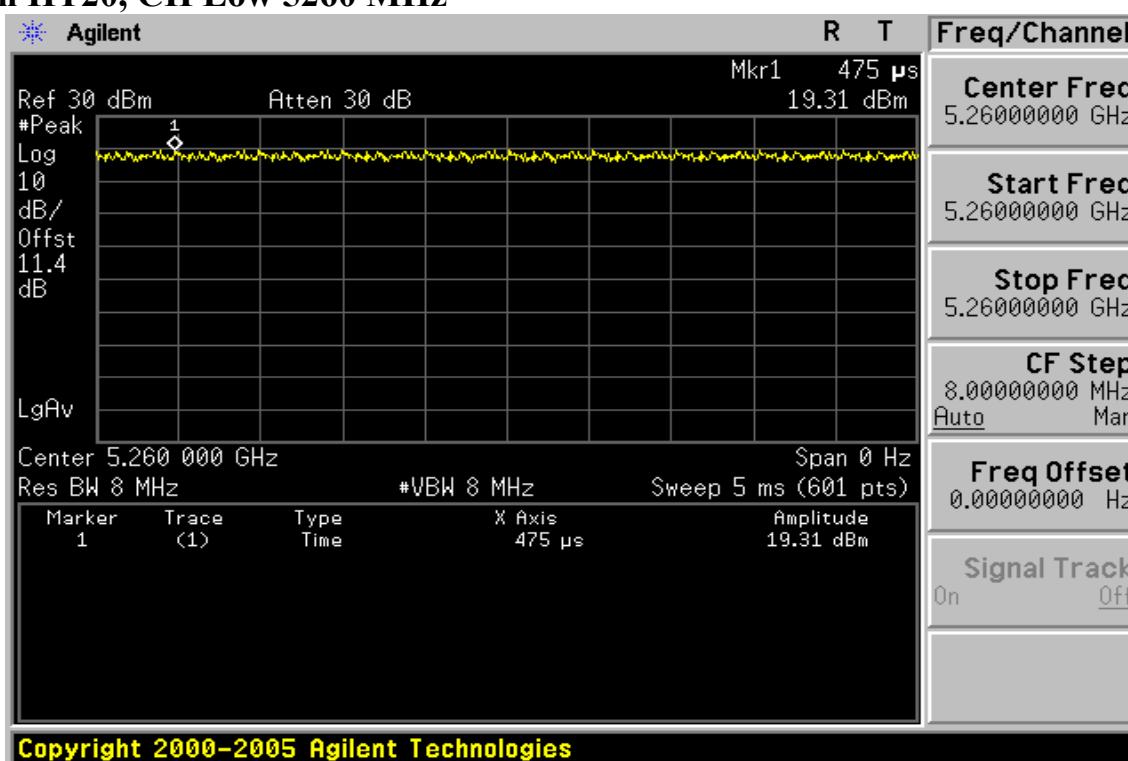
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802.11n HT20, CH Low 5180 MHz



802.11n HT20, CH Low 5260 MHz



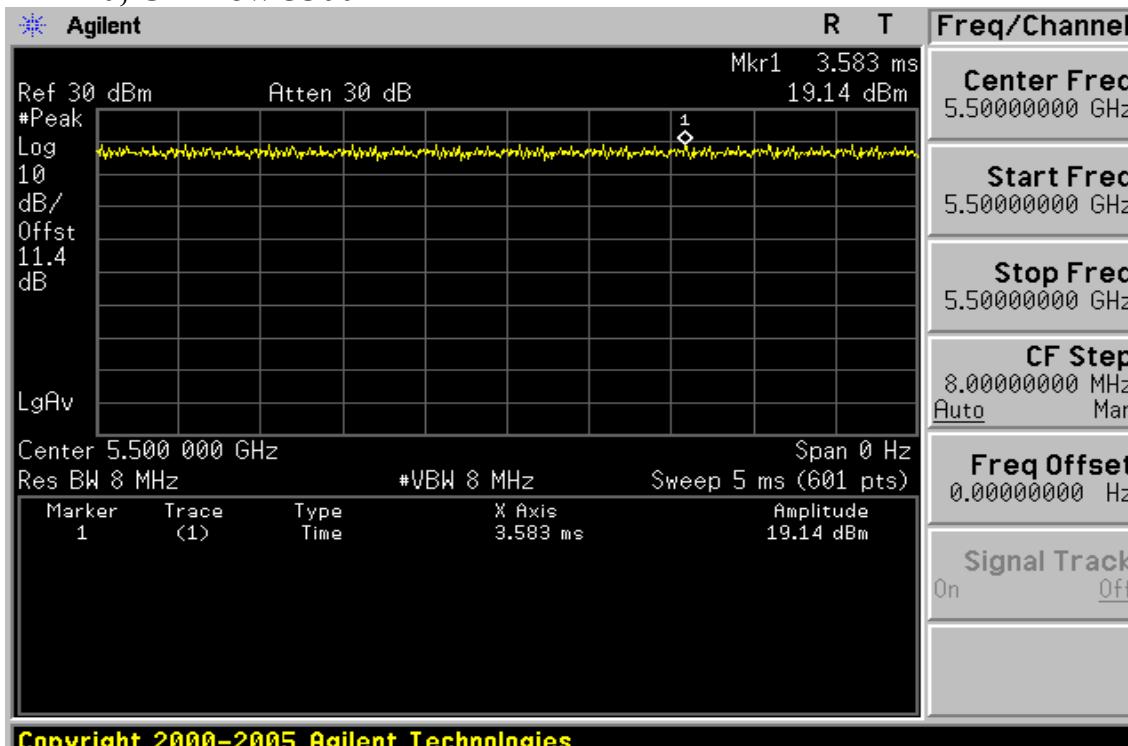
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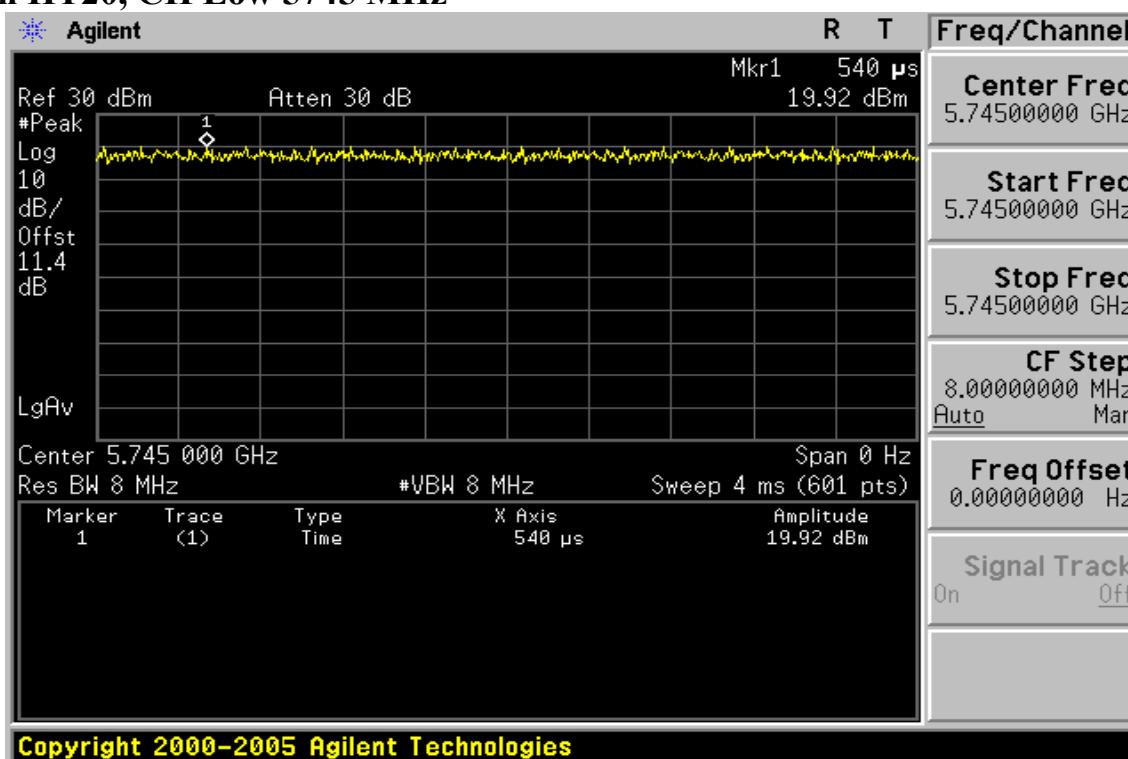
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802.11n HT20, CH Low 5500 MHz



802.11n HT20, CH Low 5745 MHz



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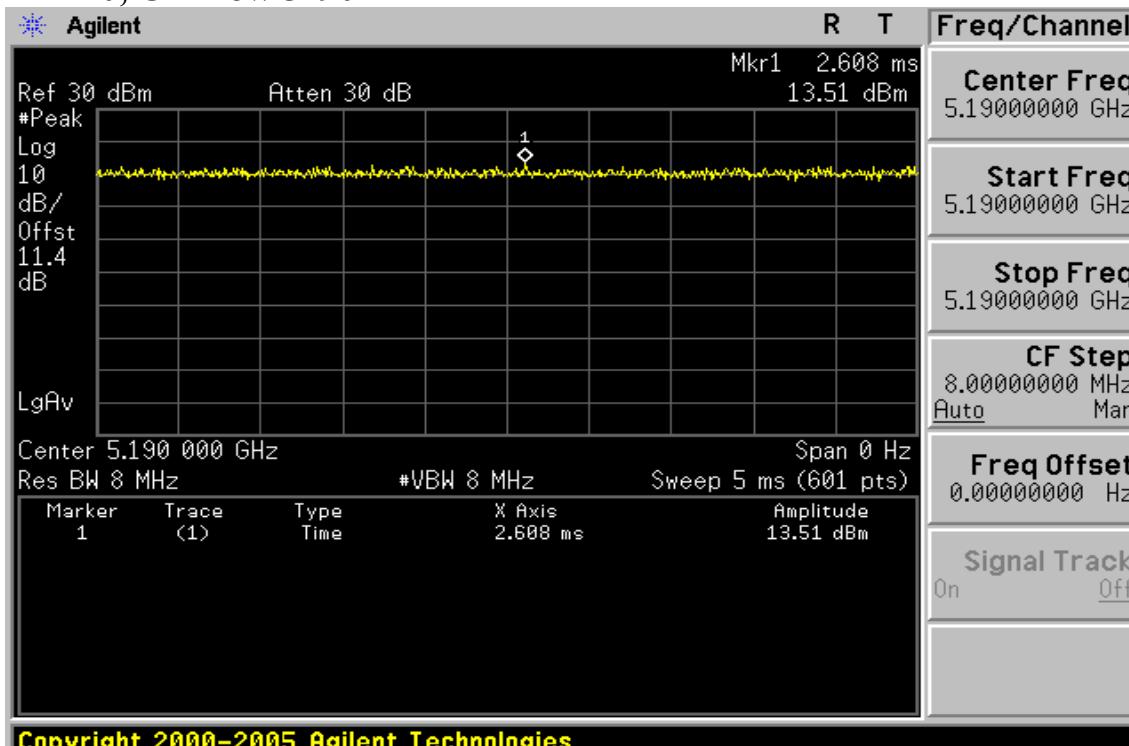
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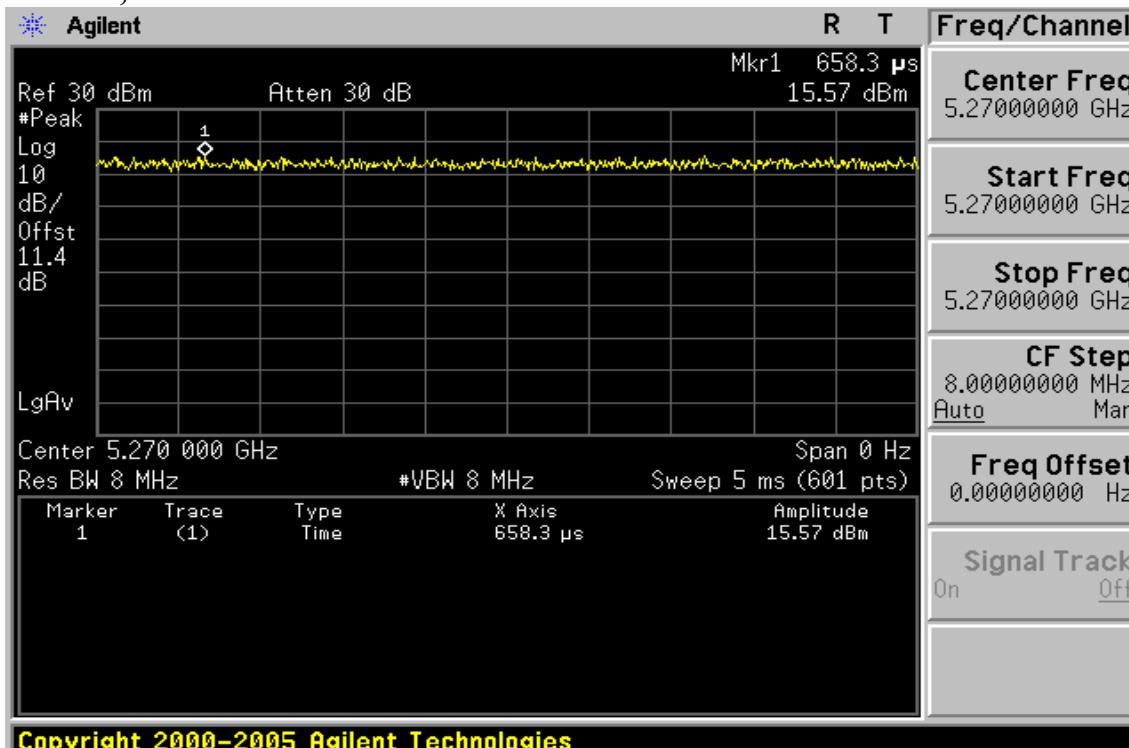
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802.11n HT40, CH Low 5190 MHz



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802.11n HT40, CH Low 5270 MHz



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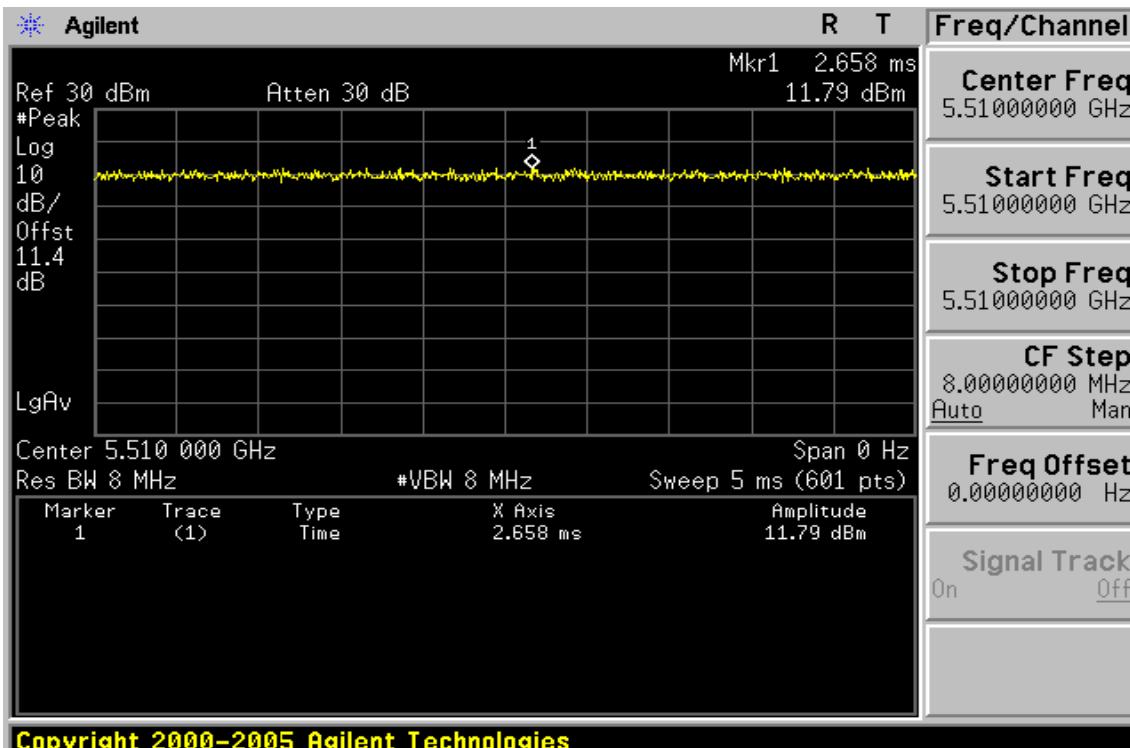
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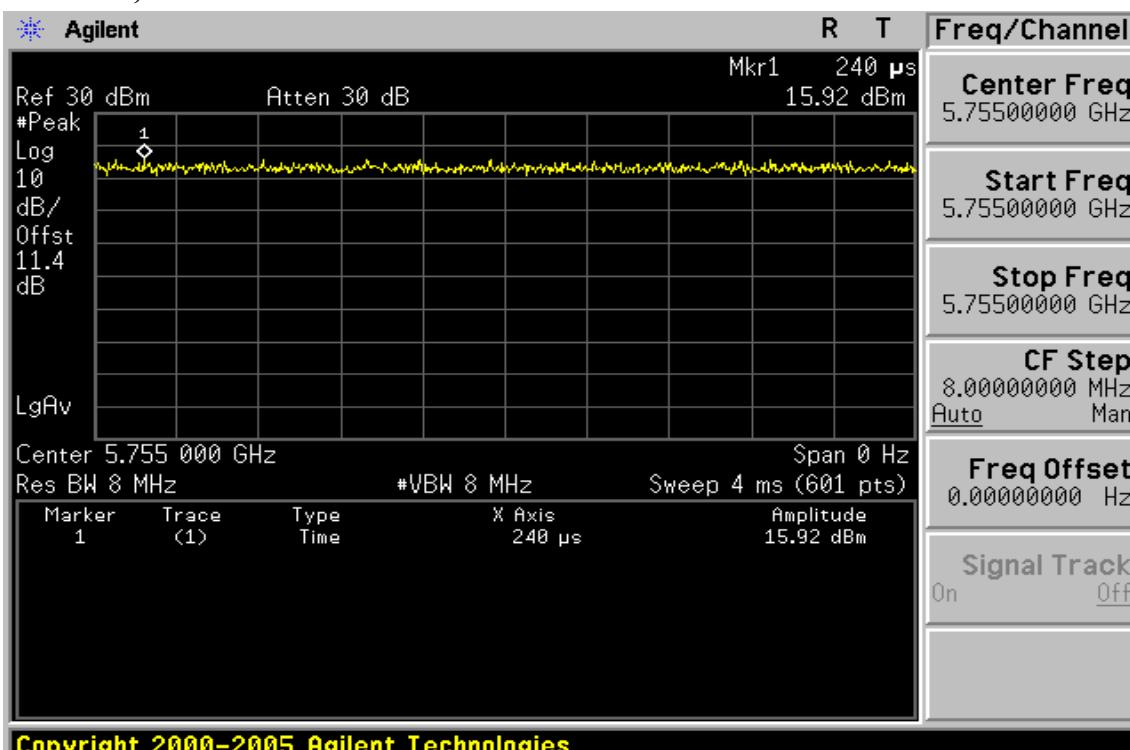
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802.11n HT40, CH Low 5510 MHz



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 – 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 (Polarization : Vertical)	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

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

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

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6. CONDUCTED EMISSION TEST

6.1. Standard Applicable

According to §15.207, frequency range within 150 kHz to 30 MHz shall not exceed the Limit table as below.

Frequency range MHz	Limits dB(uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note

1. The lower limit shall apply at the transition frequencies

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

6.2. Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	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

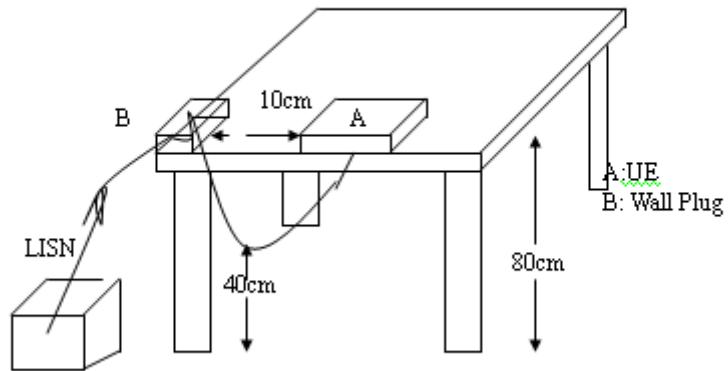
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.4:2009 & ANSI C63.10:2009.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The LISN was connected with 120Vac/60Hz power source.

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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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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
 Limit: FCC Class B Conduction(QP)
 Mode: Operation
 Note: Adapter: EP800

Phase: **L1** Temperature: 24 °C
 Power: AC 120V/60Hz Humidity: 66%

Conducted Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
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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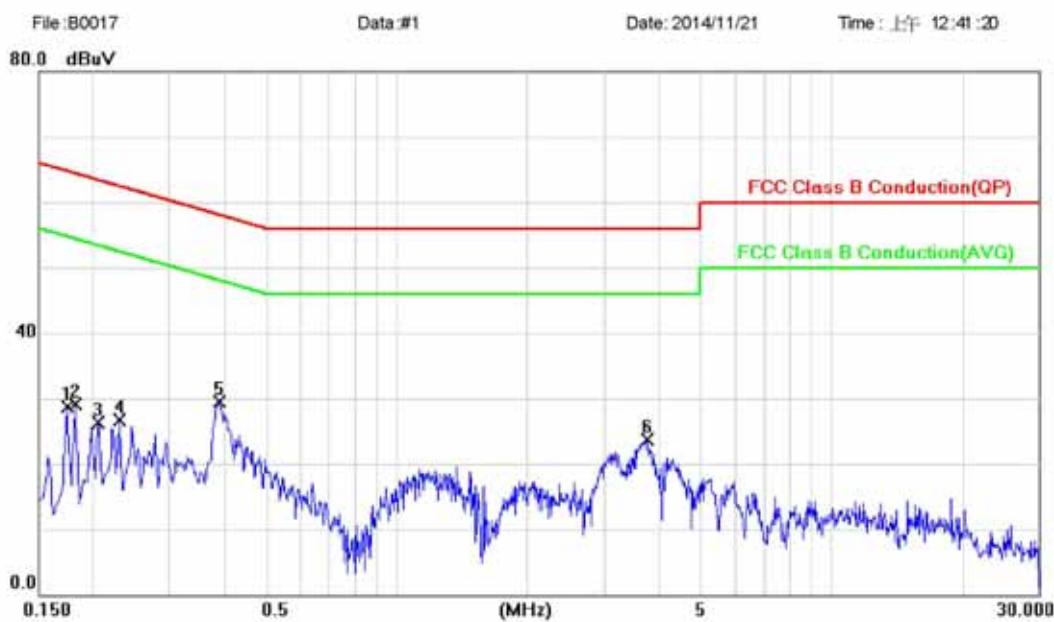
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Site: ConductionRoom
 Limit: FCC Class B Conduction(QP)
 Mode: PDA Phone
 Note: Adapter EP800

Phase: **N**
 Power: AC 120V/60Hz
 Temperature: 24 °C
 Humidity: 66%

Conducted Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		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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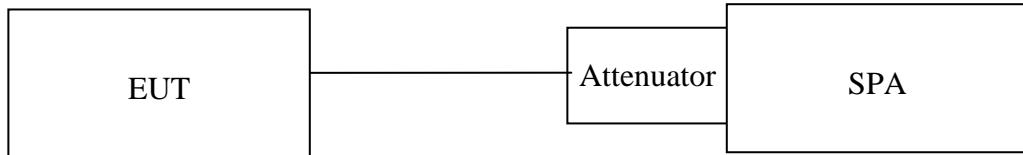
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7.3 Measurement Equipment Used:

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 (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5190	39.867	16.01
5230	39.655	15.98

802.11n HT40, 5250~5350 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5270	39.542	15.97
5310	39.826	16.00

802.11n HT40, 5470~5725 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (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 (MHz)	6dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5745	16.439	12.16
5785	16.412	12.15
5825	16.420	12.15

802.11n HT20, 5725~5850 MHz

Frequency (MHz)	6dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5745	17.667	12.47
5785	17.643	12.47
5825	17.642	12.47

802.11n HT40, 5725~5850 MHz

Frequency (MHz)	6dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5755	36.397	15.61
5795	36.388	15.61

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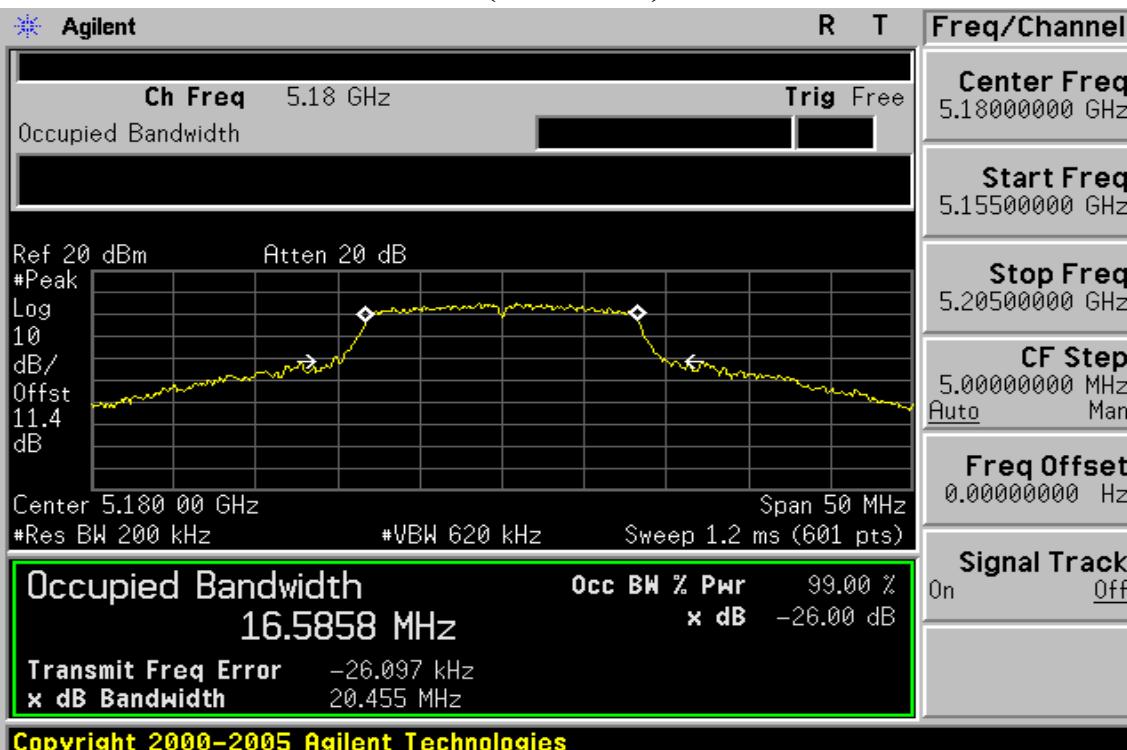
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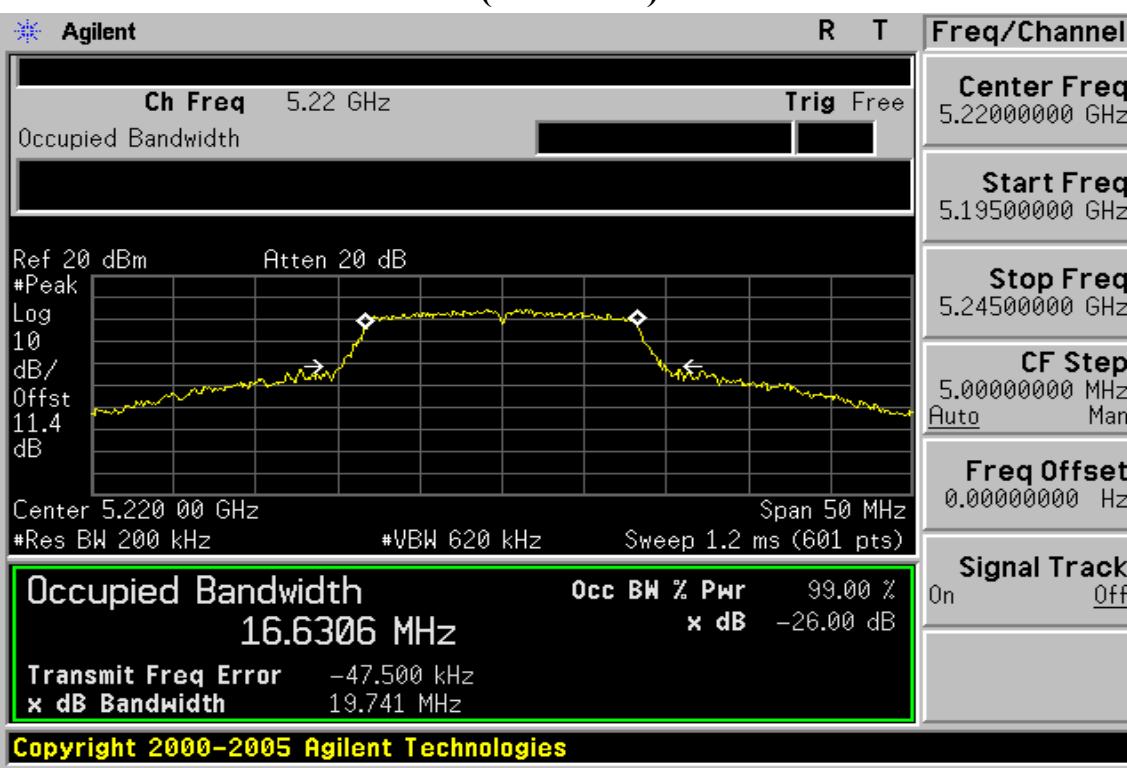
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802.11a, 5150~5250 MHz

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



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



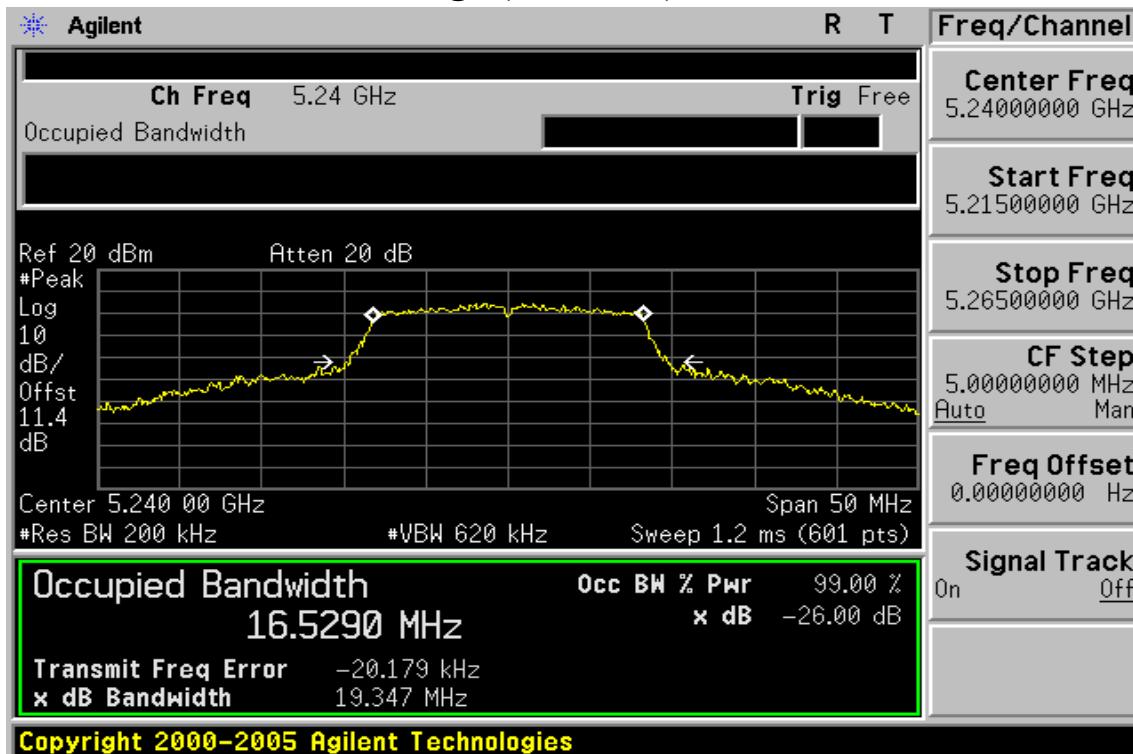
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26dB Band Width Test Data CH-High (5240MHz)



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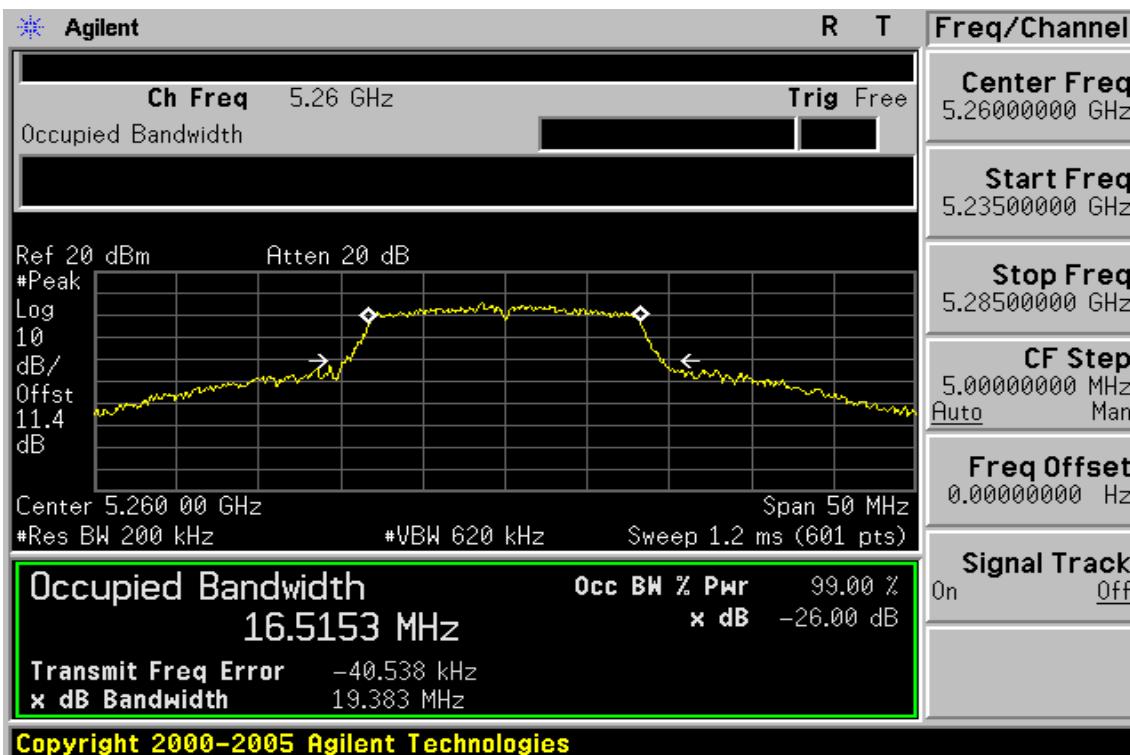
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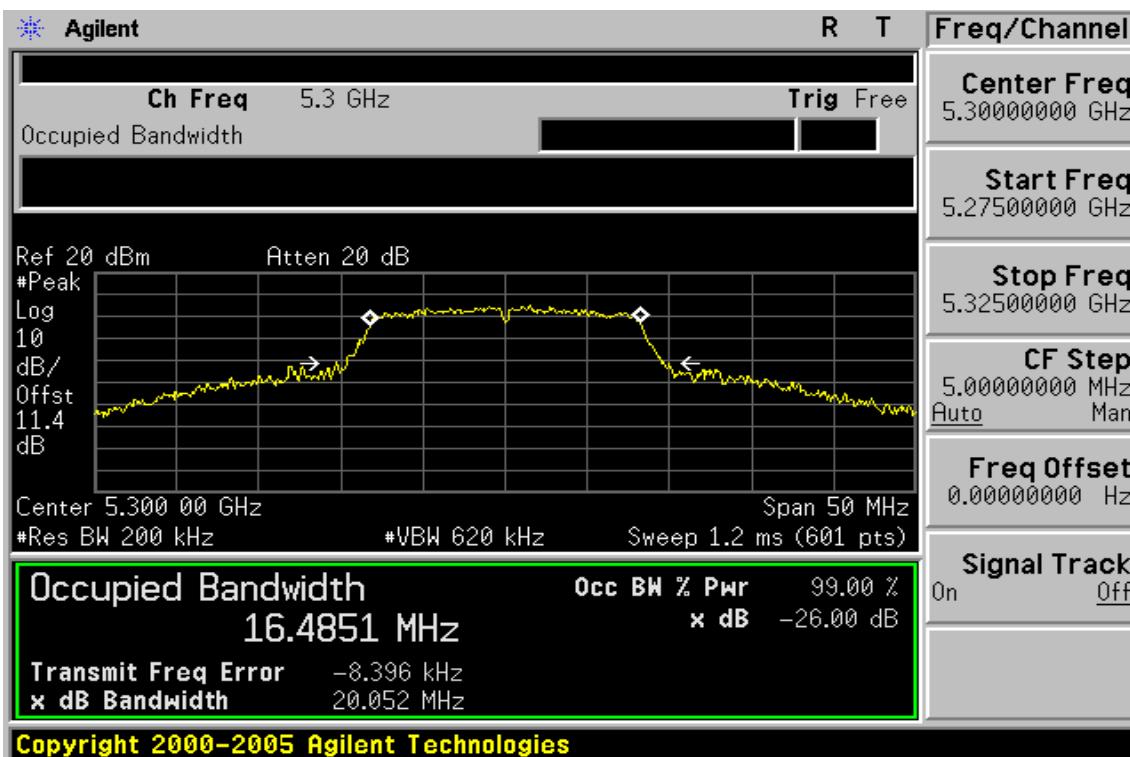
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802.11a, 5250~5350 MHz

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



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



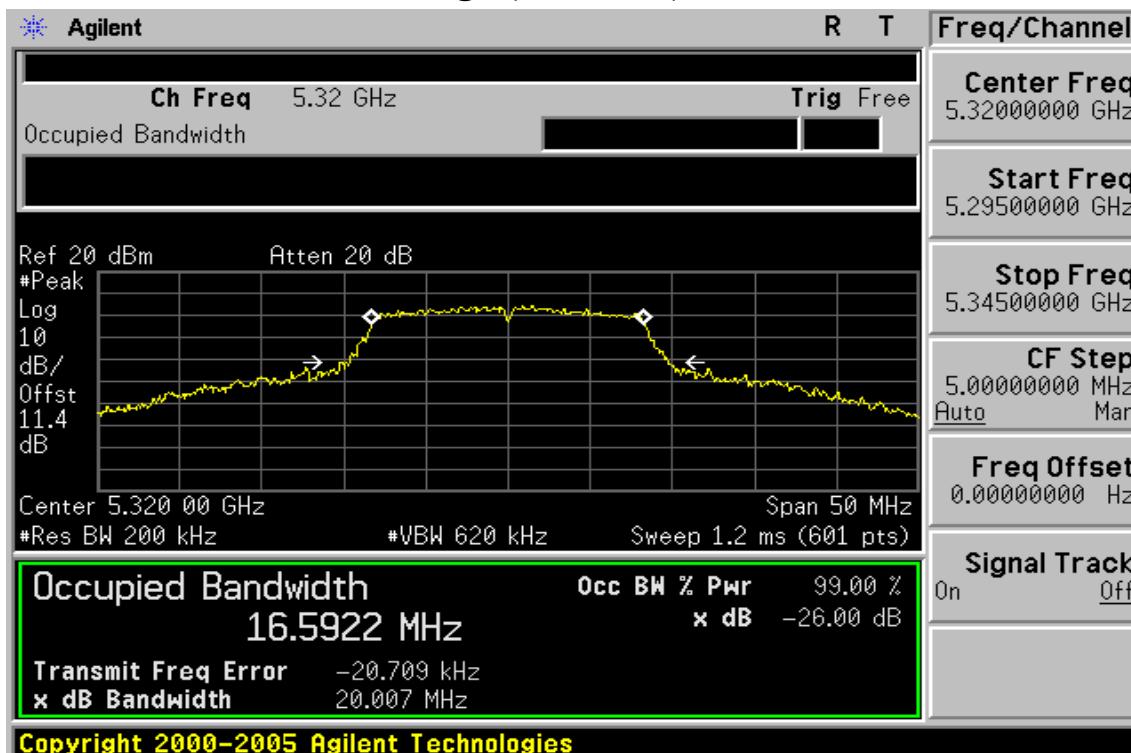
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26dB Band Width Test Data CH-High (5320MHz)



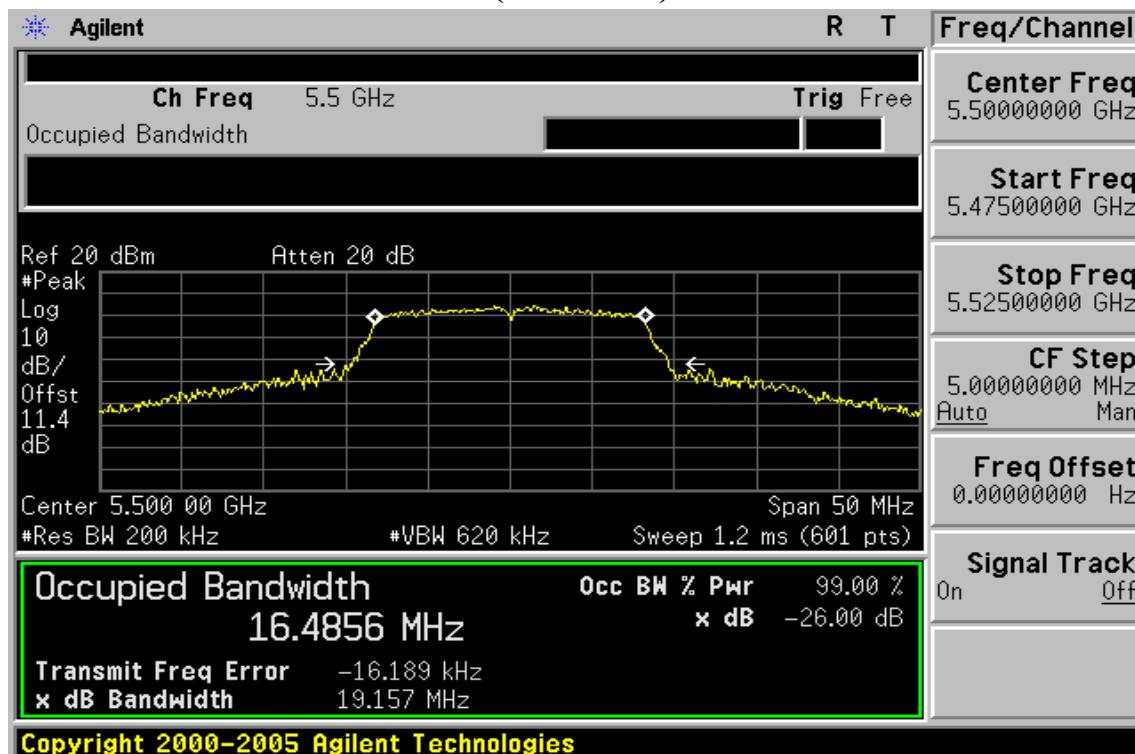
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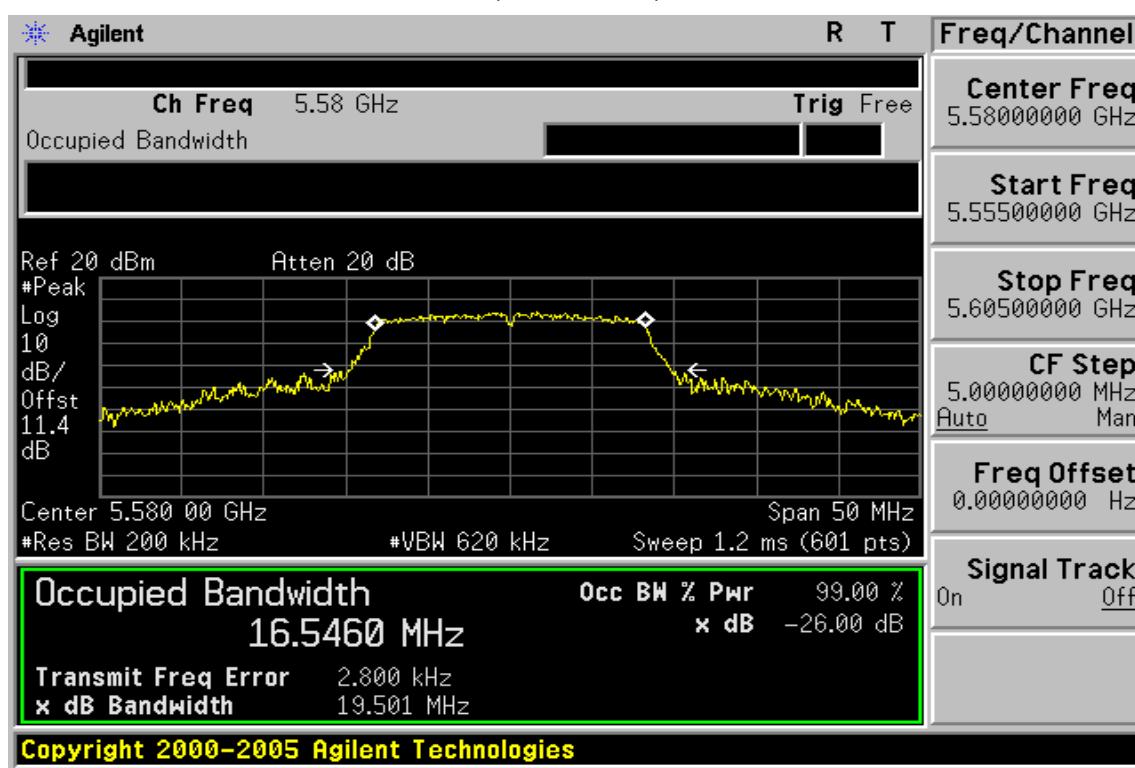
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802.11a, 5470~5725 MHz

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



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



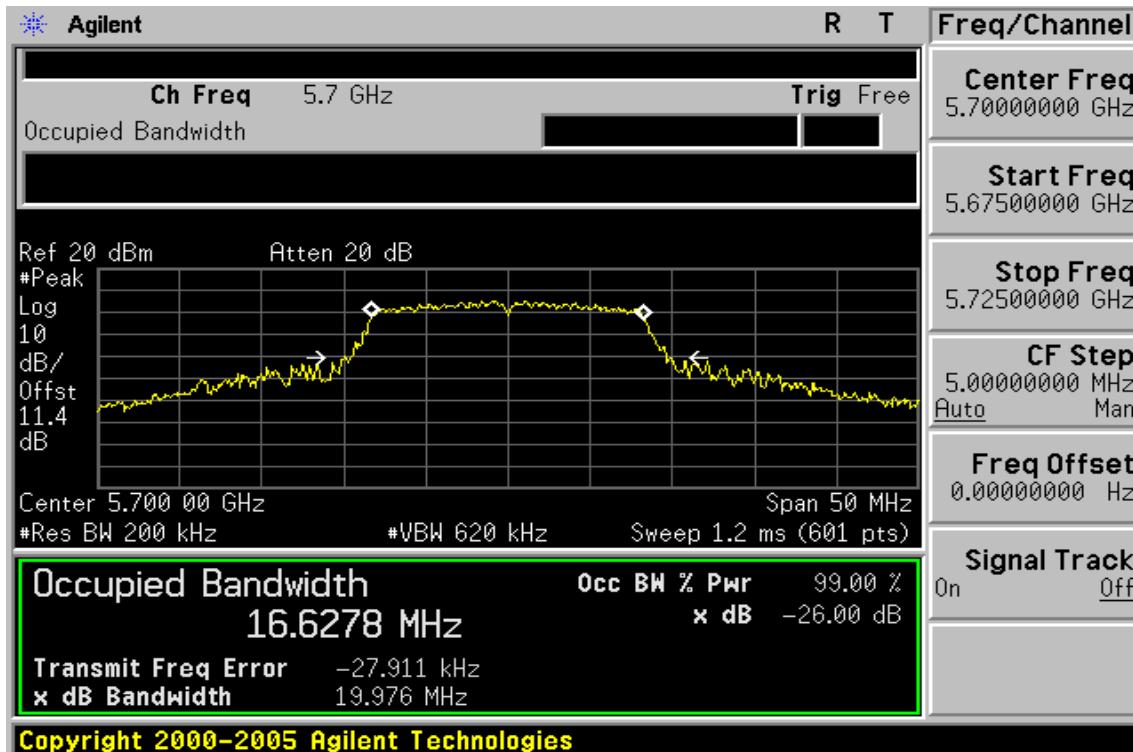
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26dB Band Width Test Data CH-High (5700MHz)



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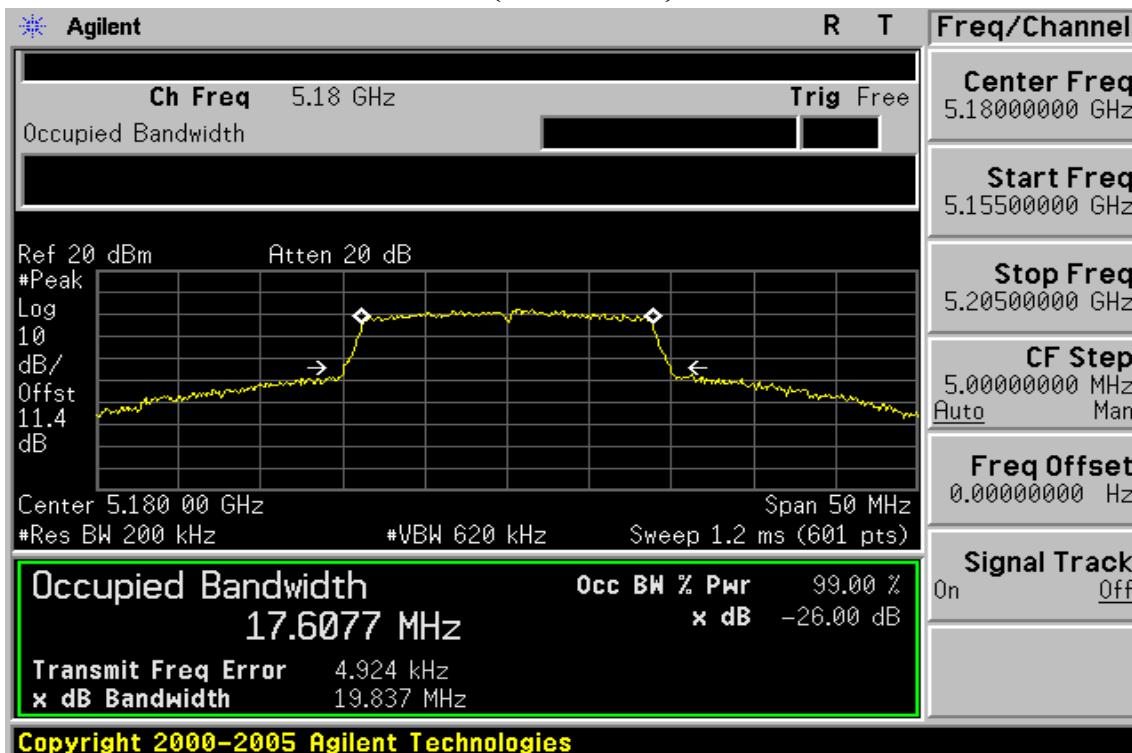
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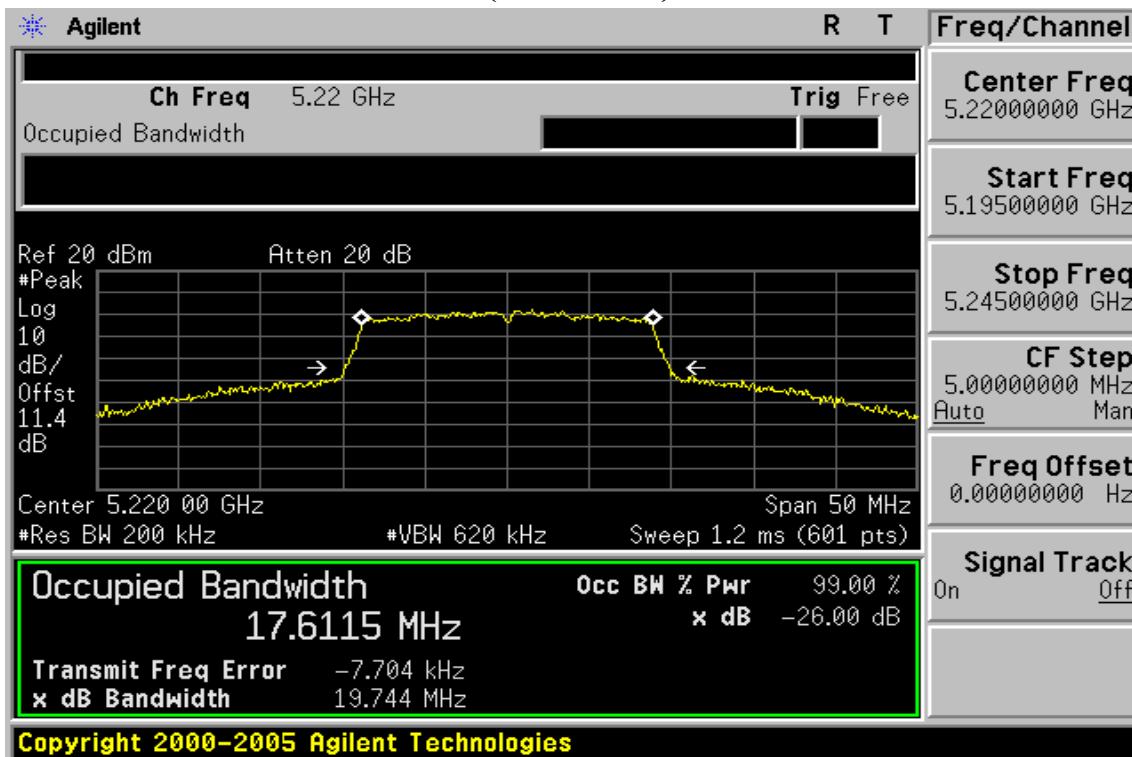
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802.11n HT20, 5150~5250 MHz
26dB Band Width Test Data CH-Low (5180 MHz)

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

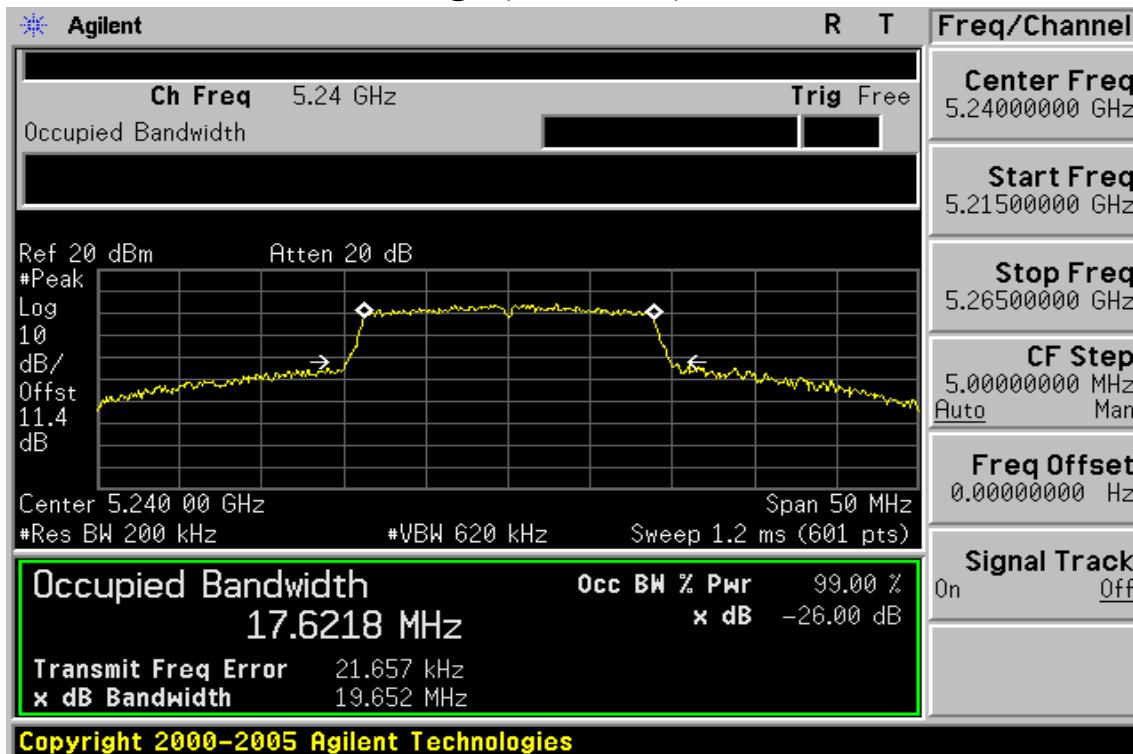


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26dB Band Width Test Data CH-High (5240 MHz)

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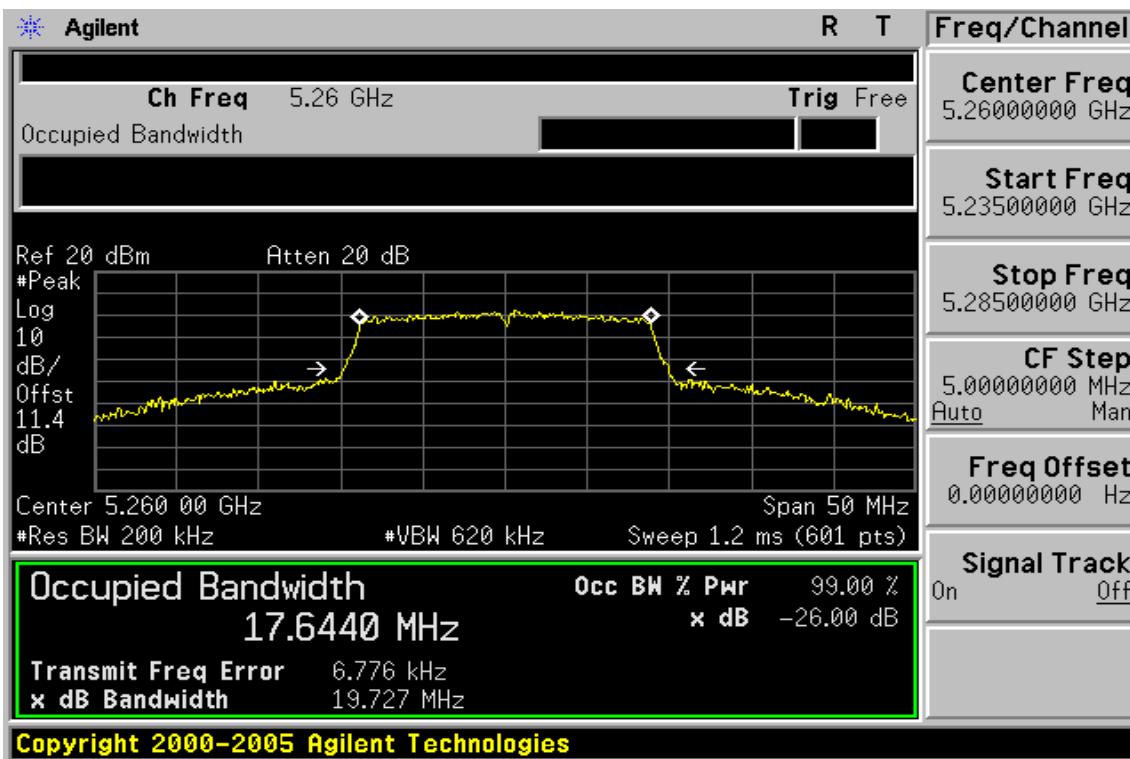
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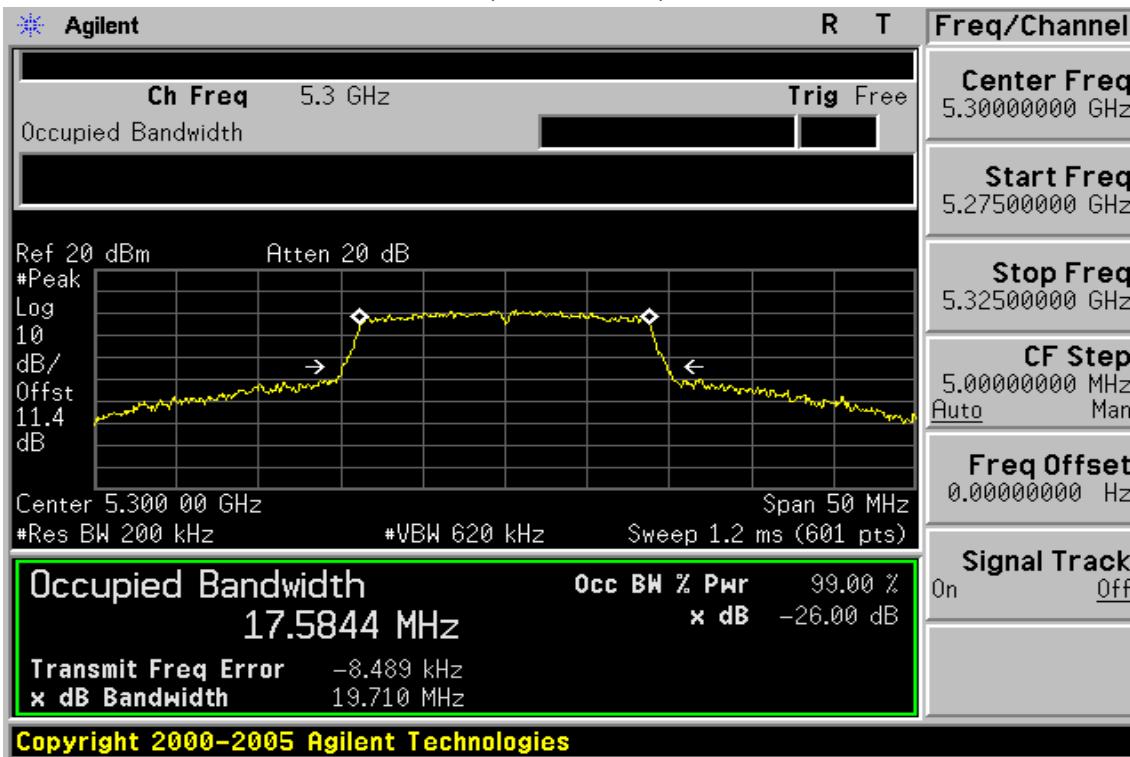
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802.11n HT20, 5250~5350 MHz

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



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



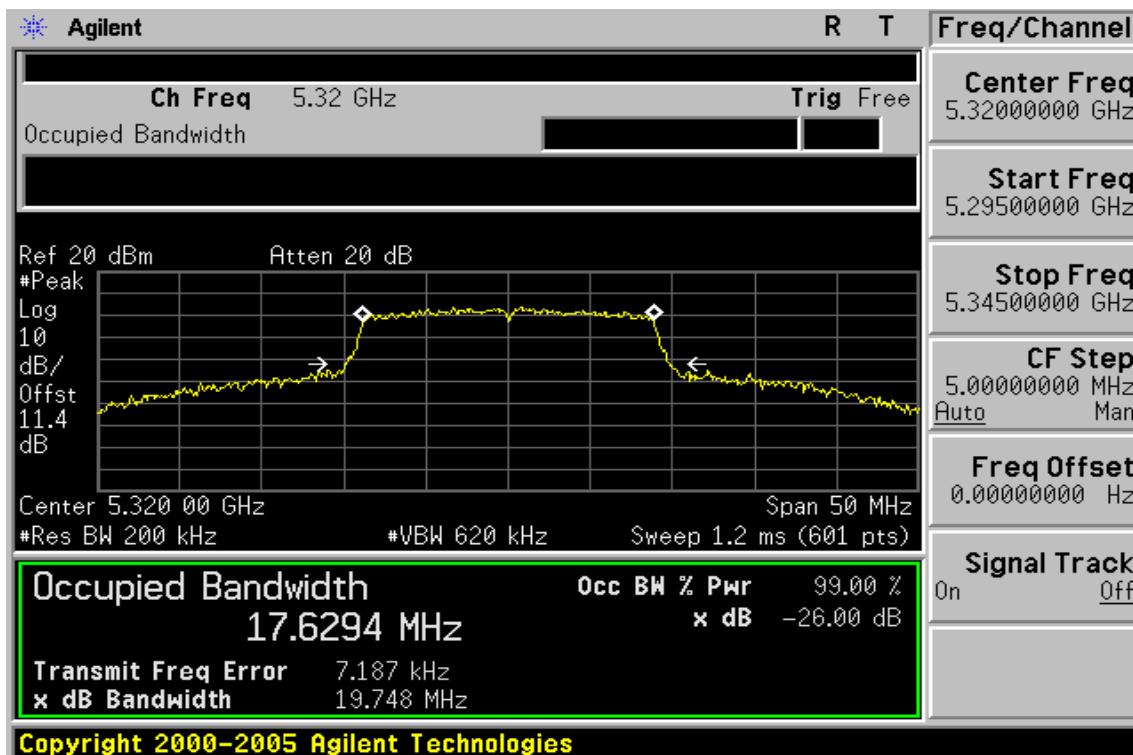
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26dB Band Width Test Data CH-High (5320 MHz)



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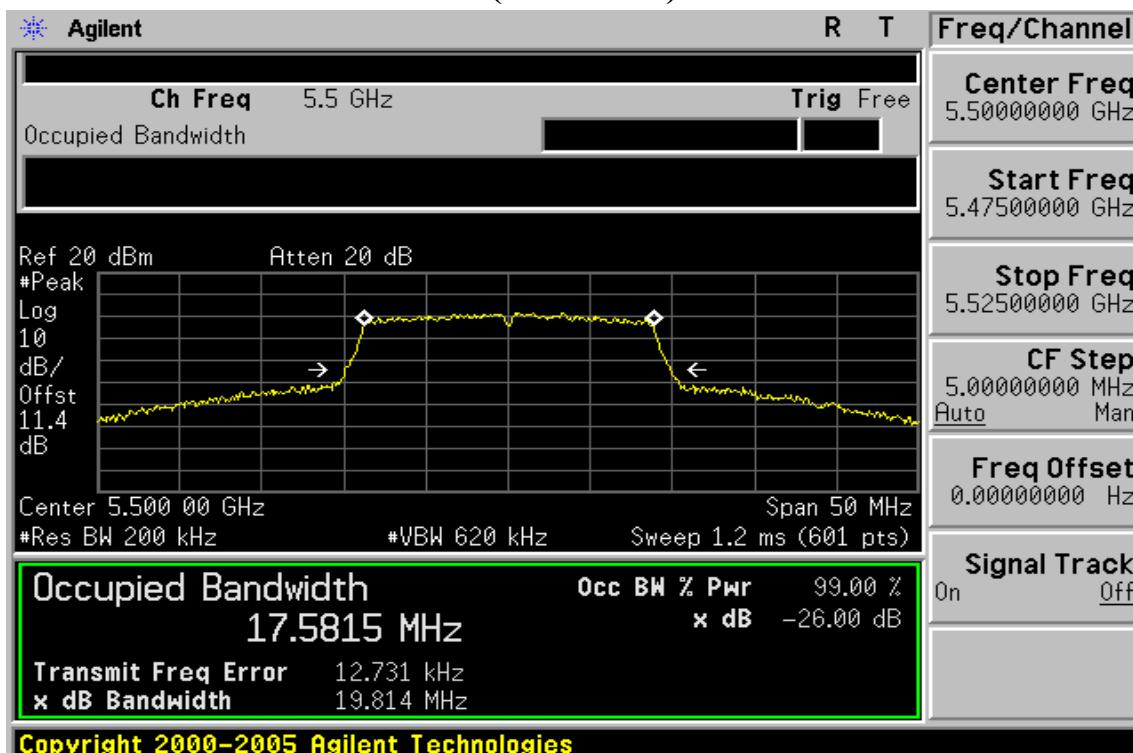
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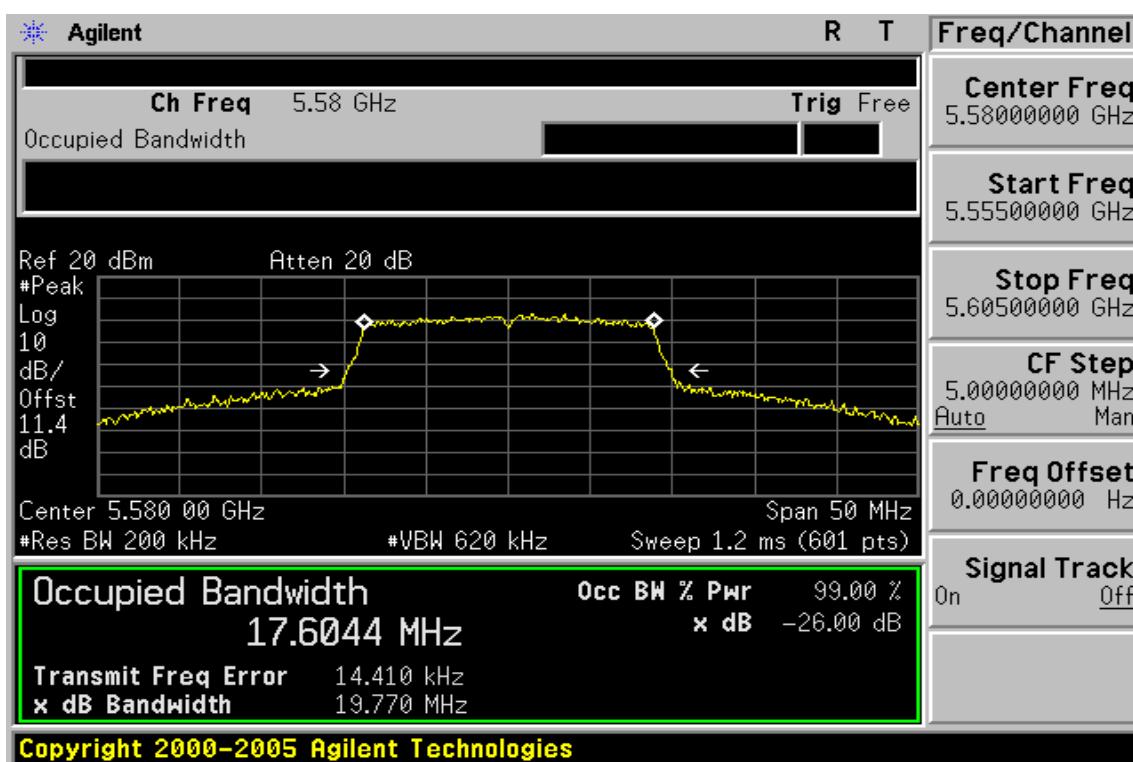
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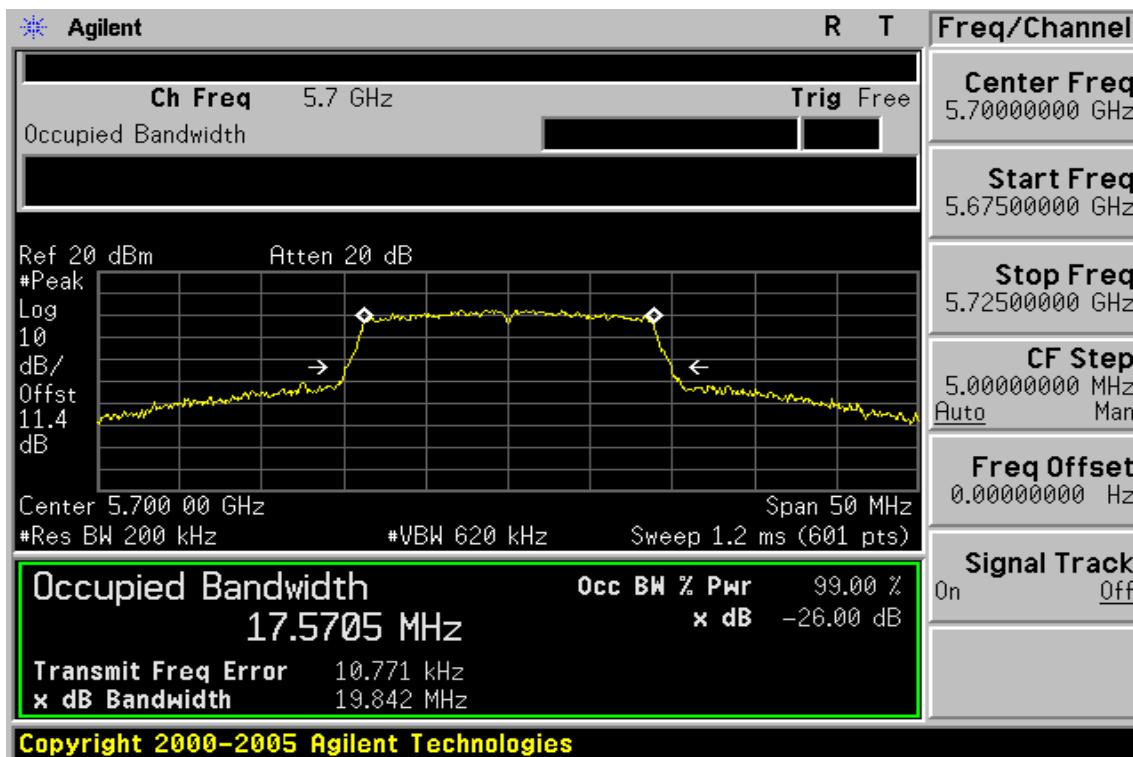
802.11n HT20, 5470~5725 MHz
26dB Band Width Test Data CH-Low (5500 MHz)

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



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

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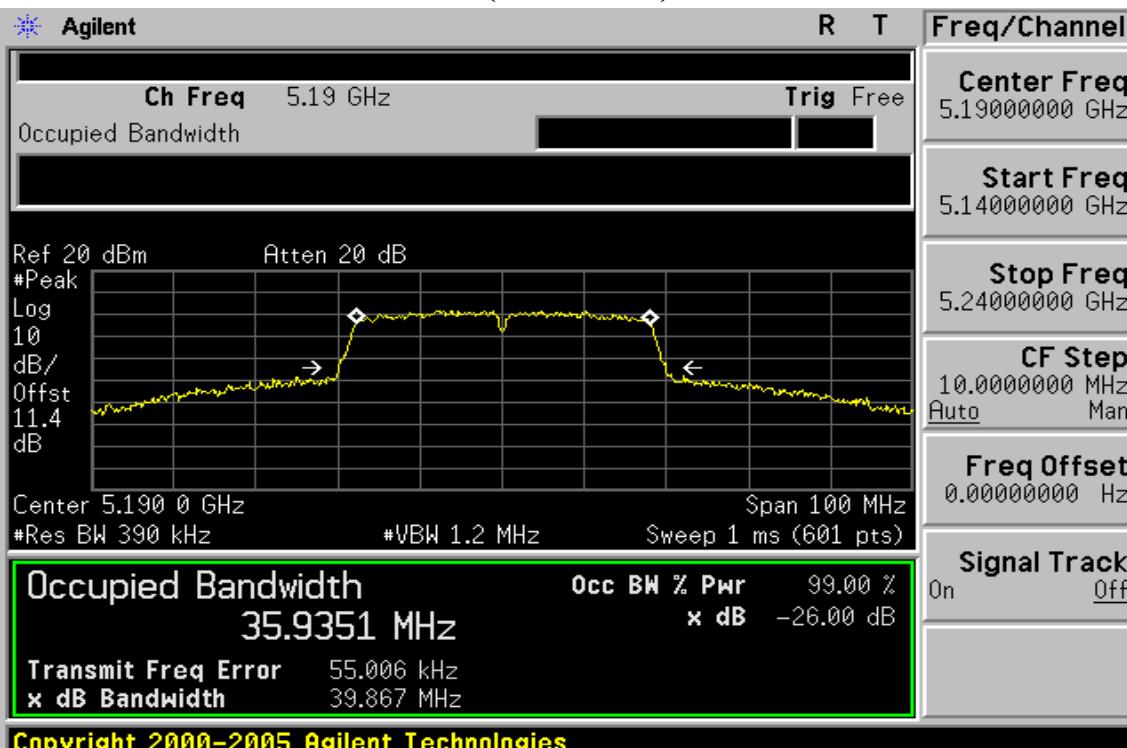
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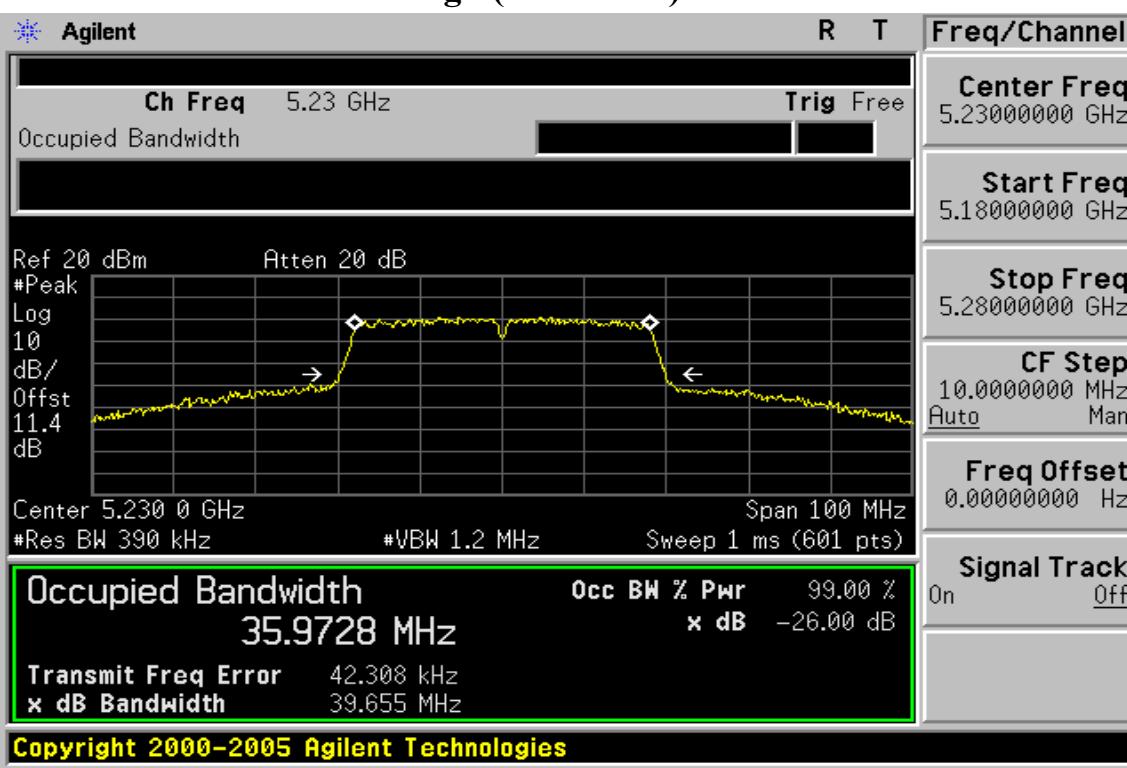
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802.11n HT40, 5150~5250 MHz

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



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



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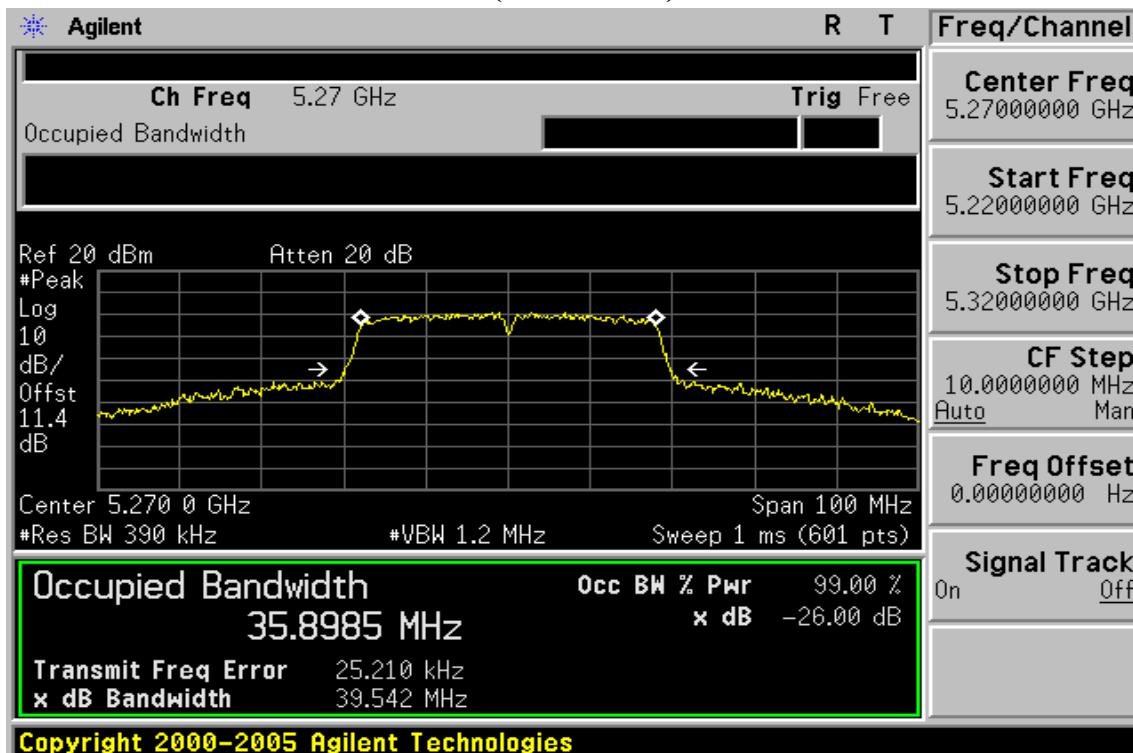
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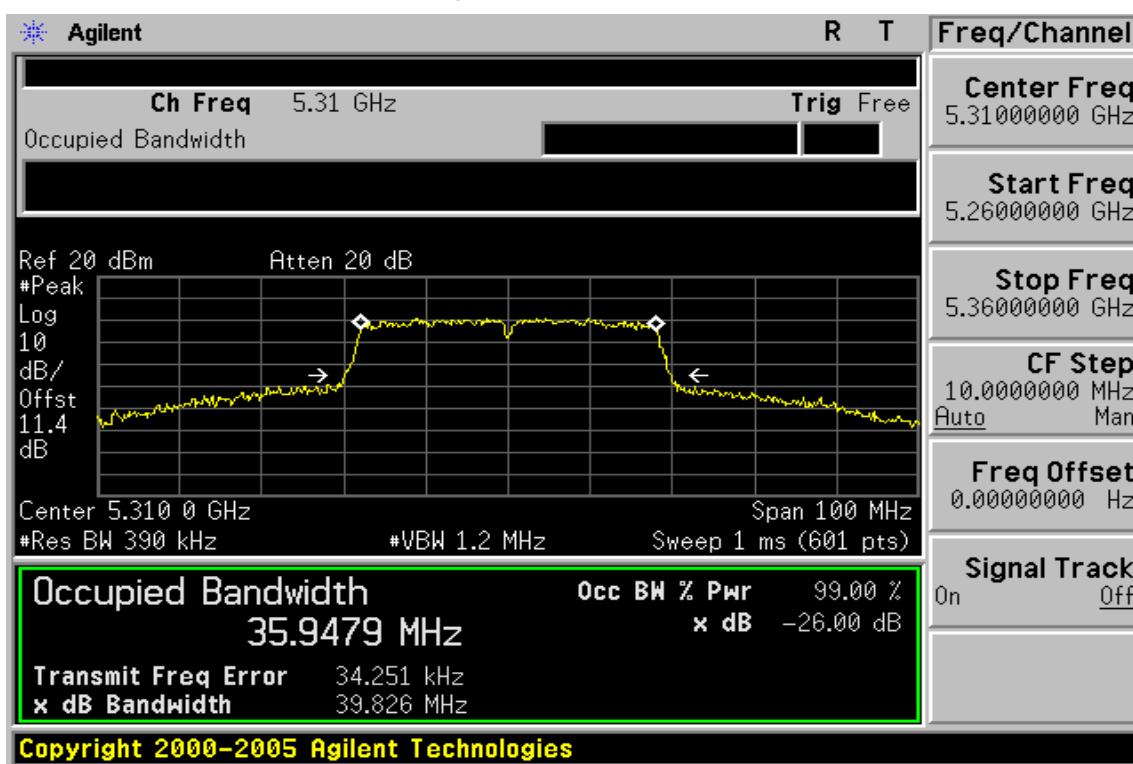
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802.11n HT40, 5250~5350 MHz

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



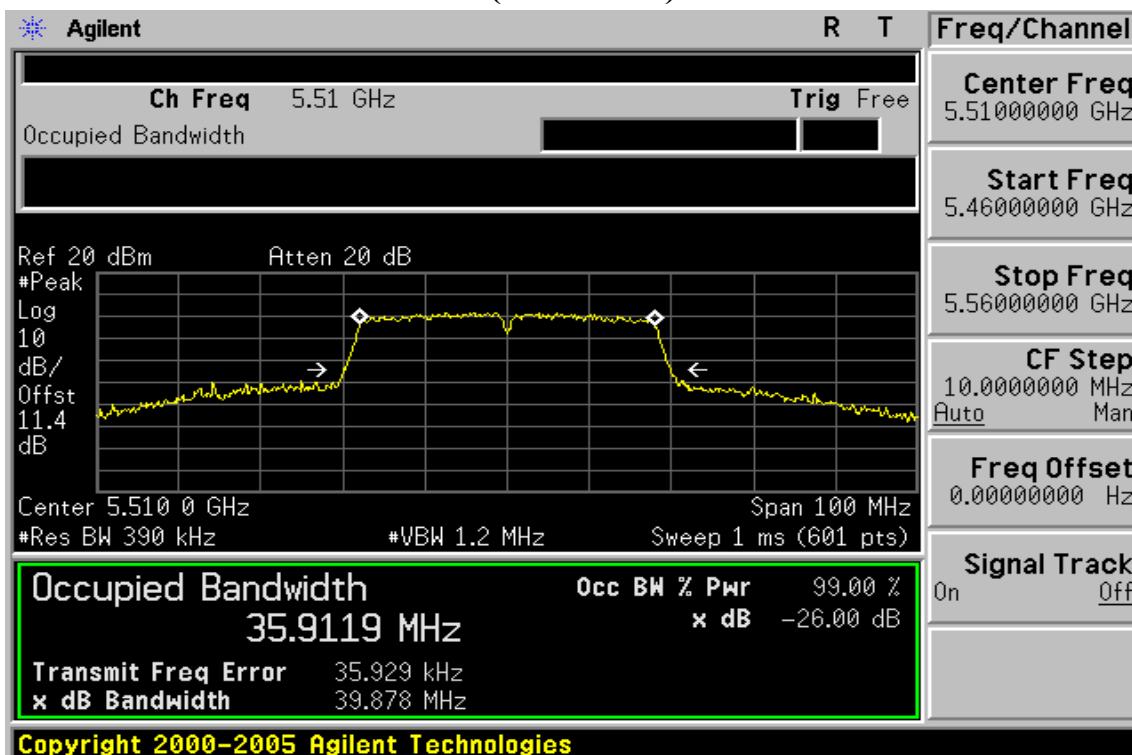
26dB Band Width Test Data CH-High (5310MHz)



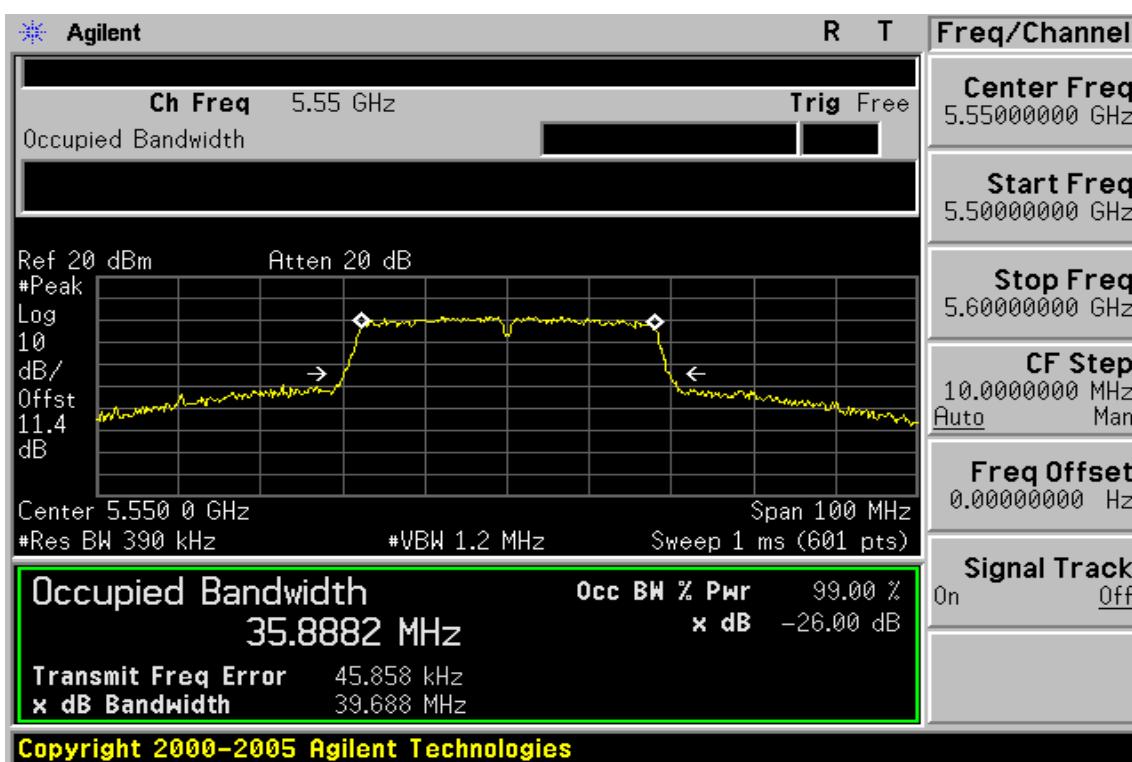
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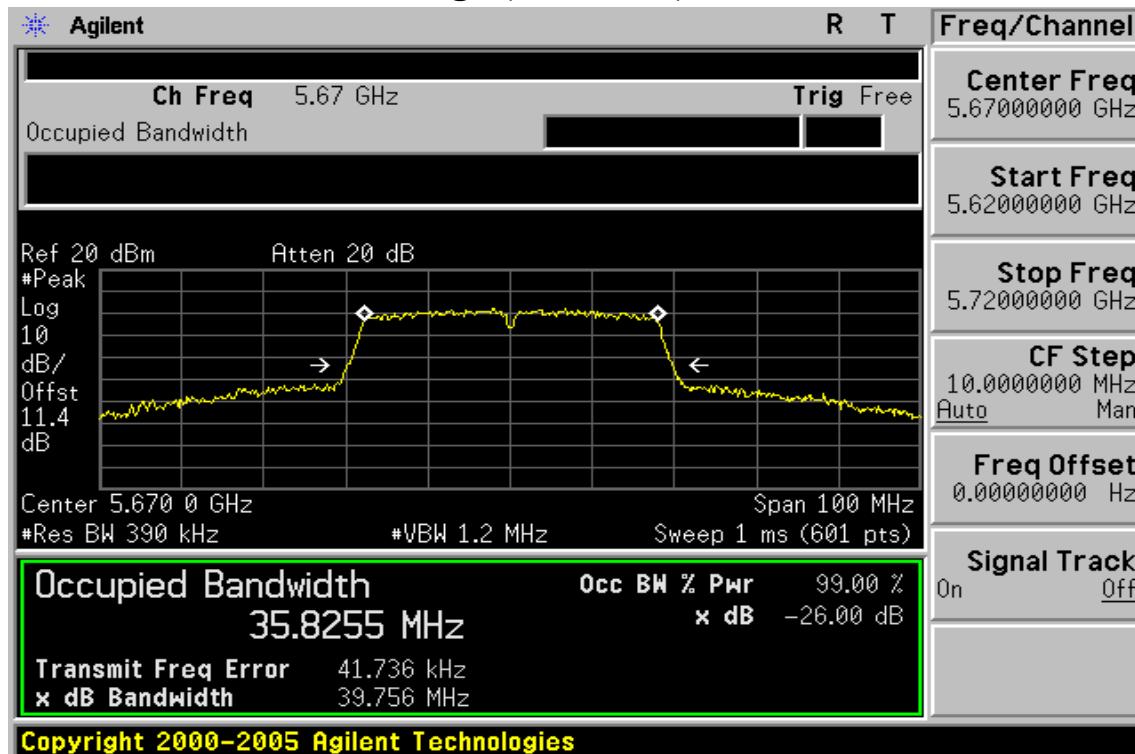
802.11n HT40, 5470~5725 MHz
26dB Band Width Test Data CH-Low (5510 MHz)

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



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

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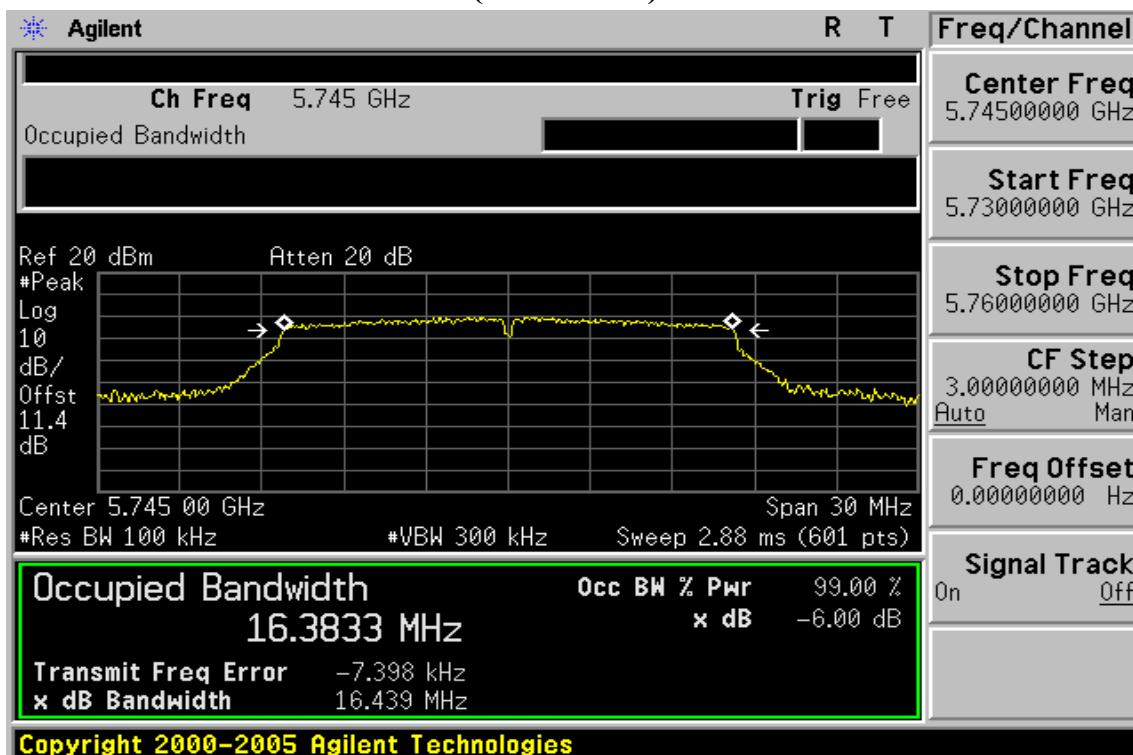
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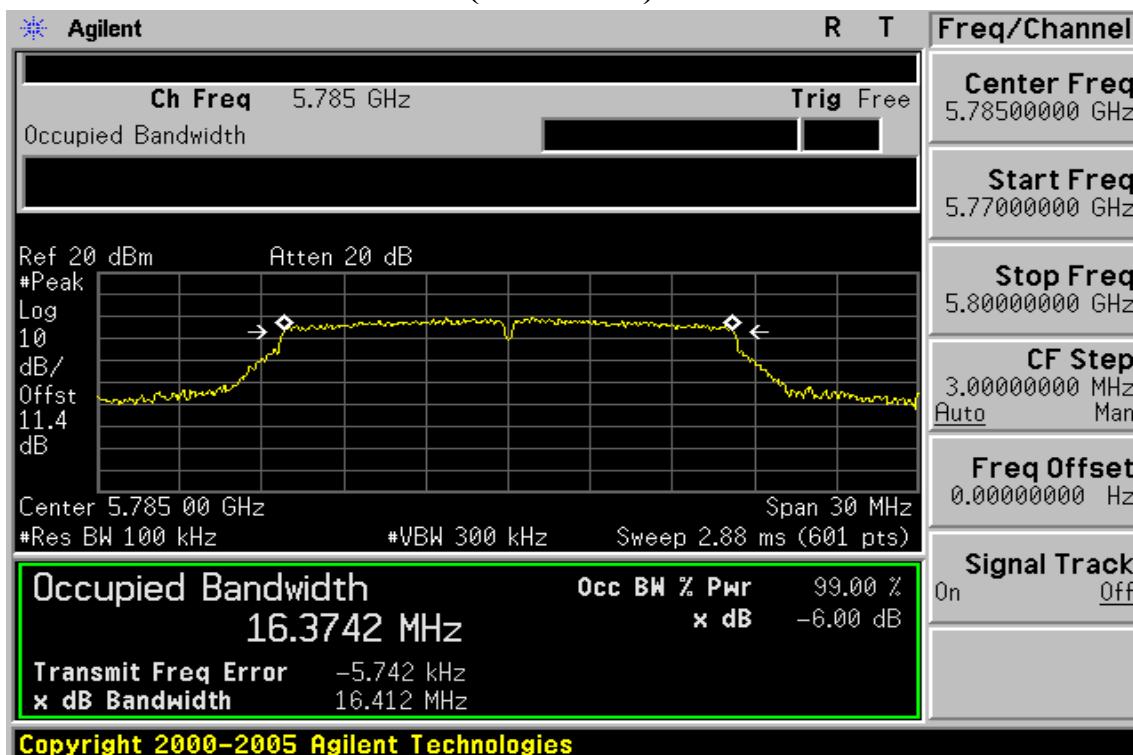
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802.11a, 5725~5850 MHz

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



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

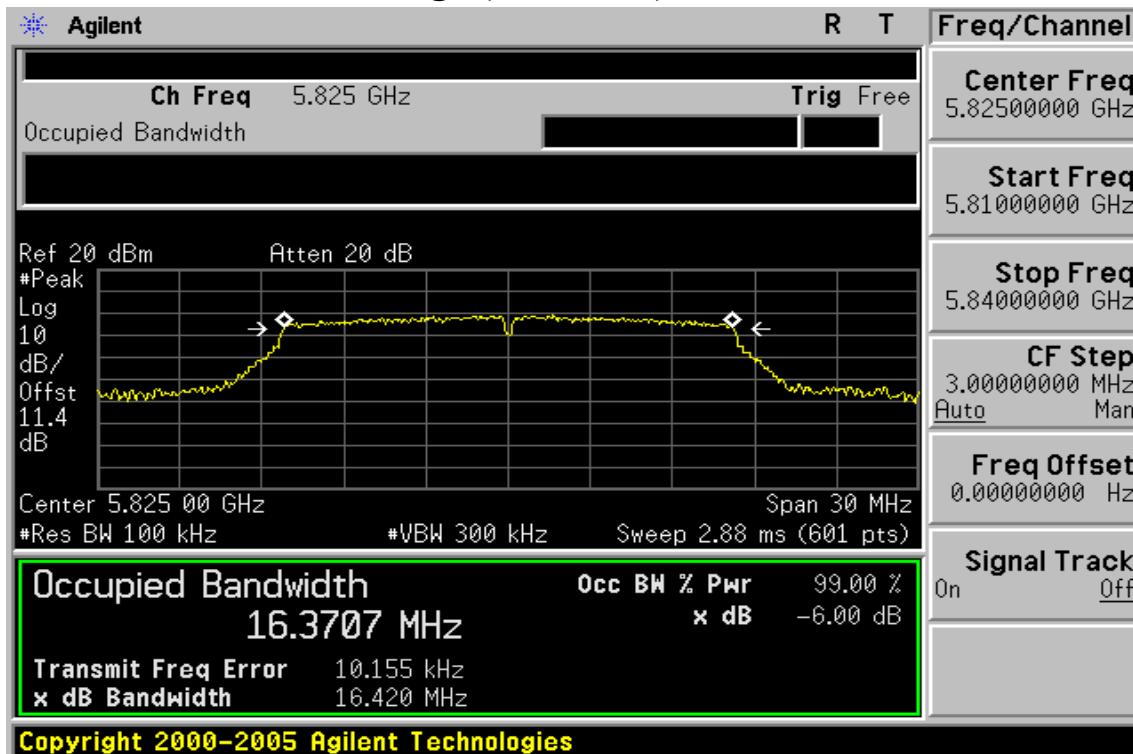


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6dB Band Width Test Data CH-High (5825 MHz)

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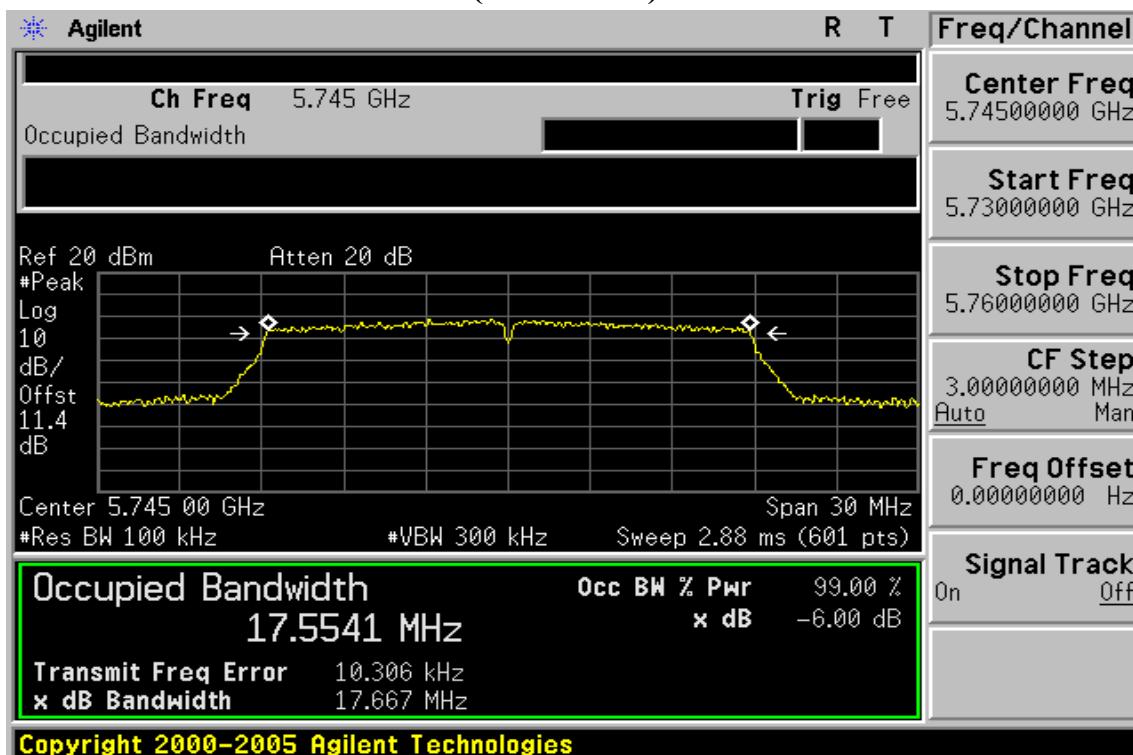
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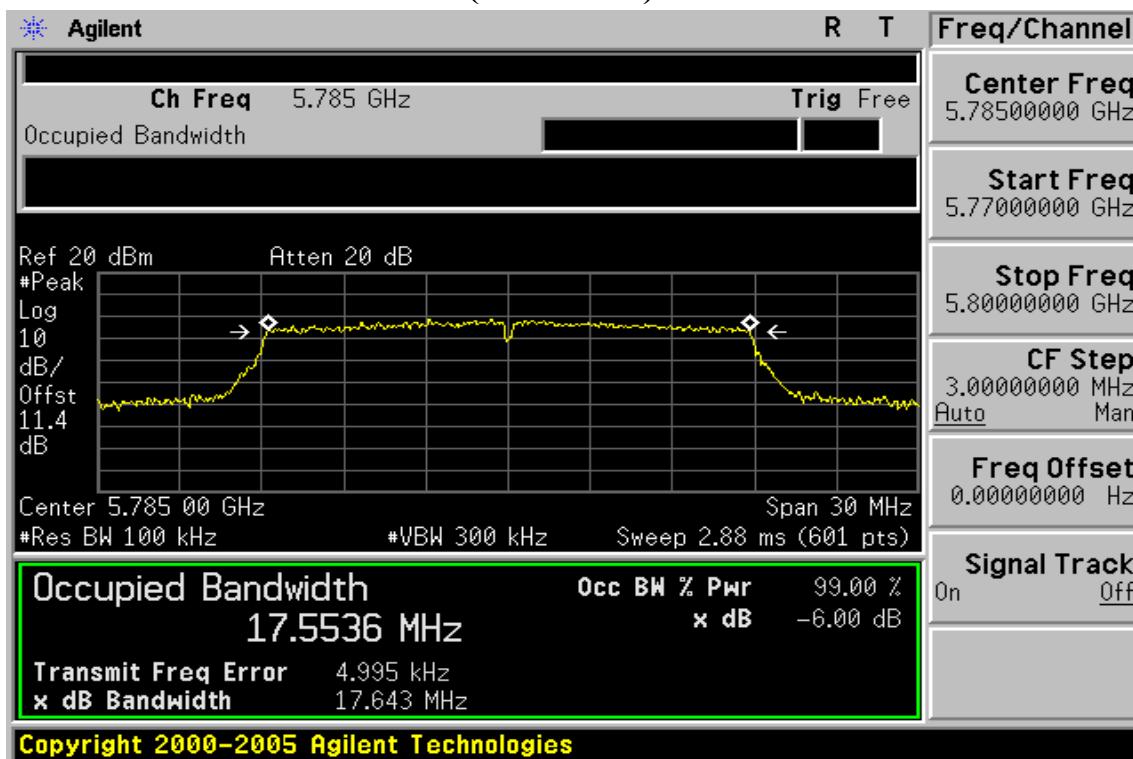
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802.11n HT20, 5725~5850 MHz

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



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

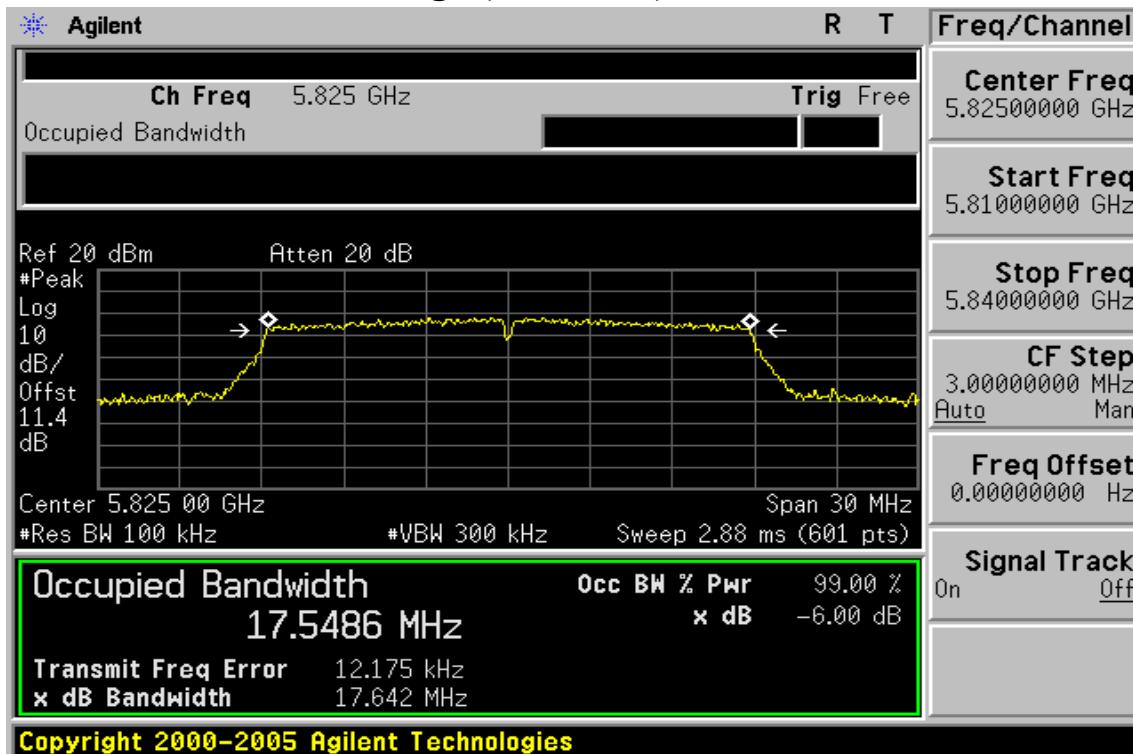


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6dB Band Width Test Data CH-High (5825 MHz)

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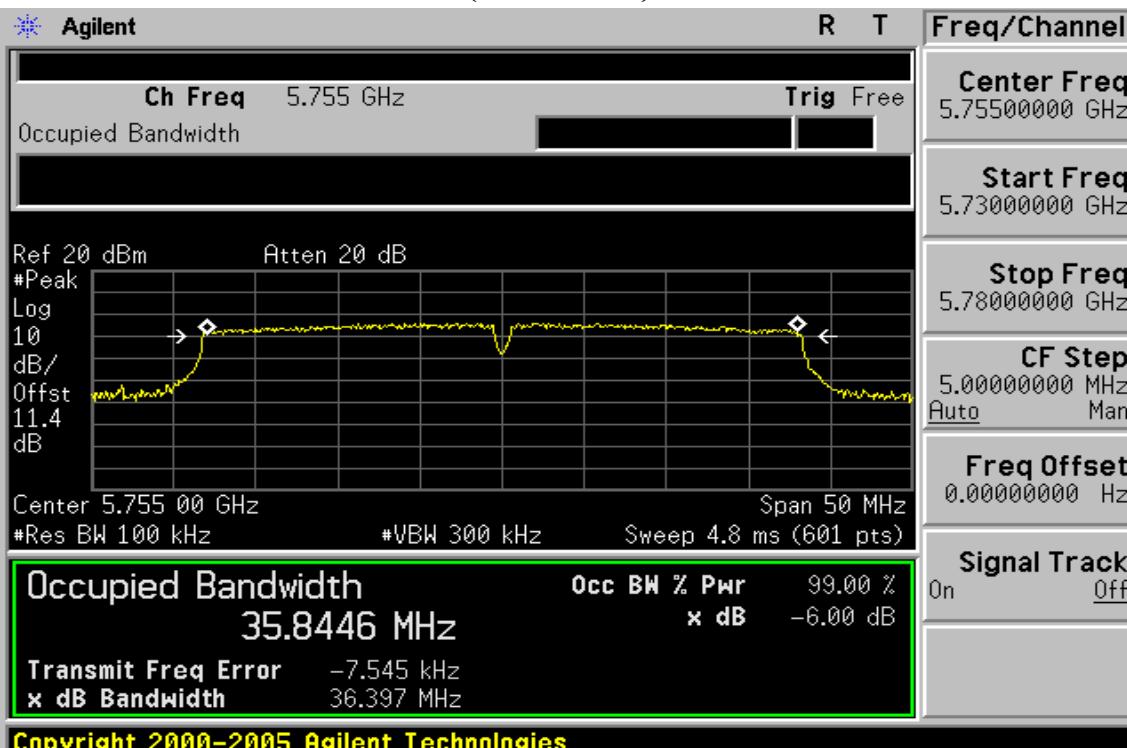
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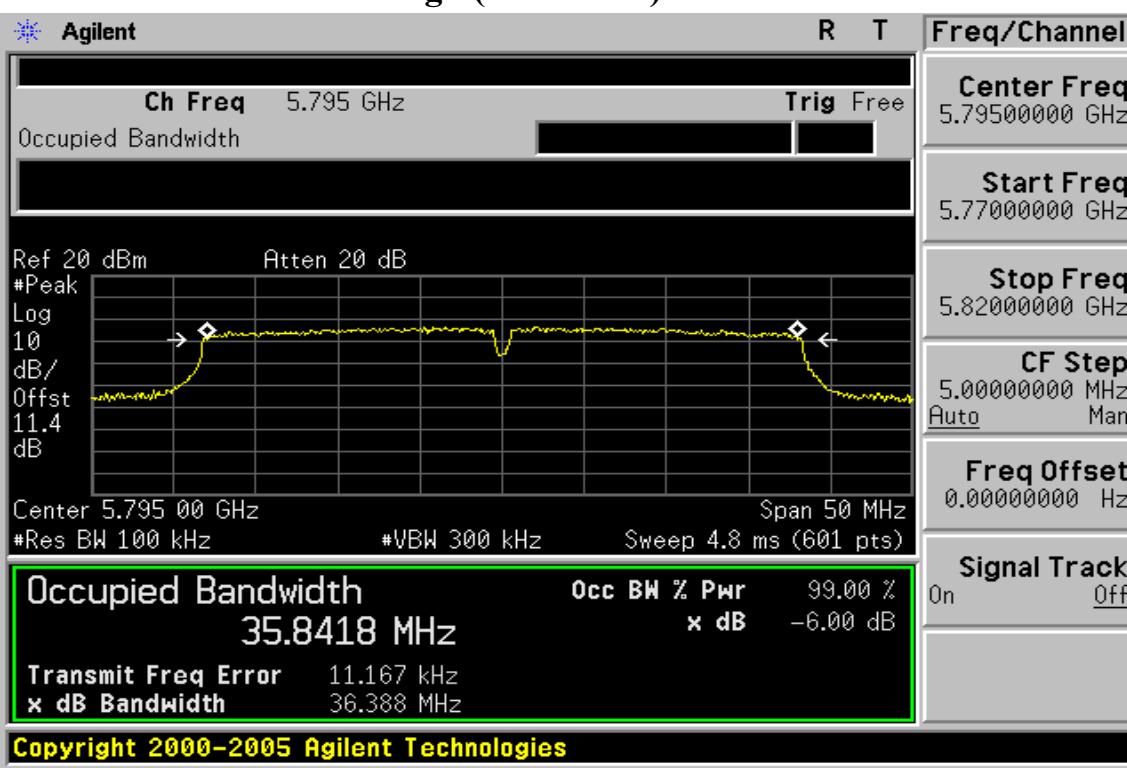
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802.11n HT40, 5725~5850 MHz for Main
6dB Band Width Test Data CH-Low (5755 MHz)

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).

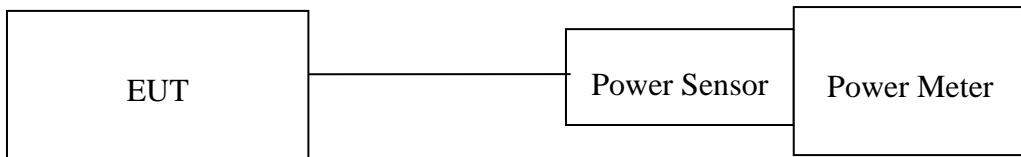
8.2 Measurement Procedure

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 $10 * \log(1/x)$ ($x=0.99$), 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		
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	13.96	13.90	13.86	13.74	13.68	13.50	13.45	13.37	23.98dBm
52	5260	13.99	13.87	13.80	13.70	13.51	13.44	13.33	13.19	23.98dBm or 11+10log(B) = 23.87dBm
60	5300	13.83	13.70	13.59	13.51	13.46	13.38	13.21	13.12	23.98dBm or 11+10log(B) = 24.02dBm
64	5320	13.95	13.84	13.77	13.67	13.63	13.47	13.41	13.28	23.98dBm or 11+10log(B) = 24.01dBm
100	5500	13.96	13.94	13.75	13.68	13.50	13.34	13.31	13.25	23.98dBm or 11+10log(B) = 23.82dBm
116	5580	13.85	13.77	13.61	13.58	13.45	13.42	13.34	13.26	23.98dBm or 11+10log(B) = 23.90dBm
140	5700	13.96	13.89	13.82	13.63	13.62	13.50	13.34	13.20	23.98dBm or 11+10log(B) = 24.01dBm
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	13.79	13.69	13.63	13.54	13.44	13.41	13.39	13.33	30dBm

Note: Limit is re-adjusted in terms of dBm

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

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	12.99	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+10log(B) = 23.95dBm
60	5300	12.84	12.65	12.50	12.47	12.30	12.13	11.99	11.88	23.98dBm or 11+10log(B) = 23.95dBm
64	5320	12.95	12.93	12.90	12.71	12.62	12.52	12.40	12.23	23.98dBm or 11+10log(B) = 23.96dBm
100	5500	12.98	12.96	12.78	12.77	12.71	12.70	12.67	12.50	23.98dBm or 11+10log(B) = 23.97dBm
116	5580	12.99	12.92	12.82	12.64	12.63	12.55	12.52	12.35	23.98dBm or 11+10log(B) = 23.96dBm
140	5700	12.89	12.78	12.71	12.63	12.45	12.32	12.14	12.13	23.98dBm or 11+10log(B) = 23.98dBm
149	5745	12.79	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+10log(B) = 26.97dBm
62	5310	11.46	11.39	11.34	11.25	11.07	11.05	10.86	10.73	23.98dBm or 11+10log(B) = 27.00dBm
102	5510	11.37	11.30	11.25	11.22	11.17	11.09	11.03	10.98	23.98dBm or 11+10log(B) = 27.01dBm
110	5550	11.96	11.84	11.67	11.48	11.30	11.25	11.15	11.07	23.98dBm or 11+10log(B) = 26.99dBm
134	5670	11.86	11.81	11.73	11.65	11.50	11.38	11.25	11.18	23.98dBm or 11+10log(B) = 26.99dBm
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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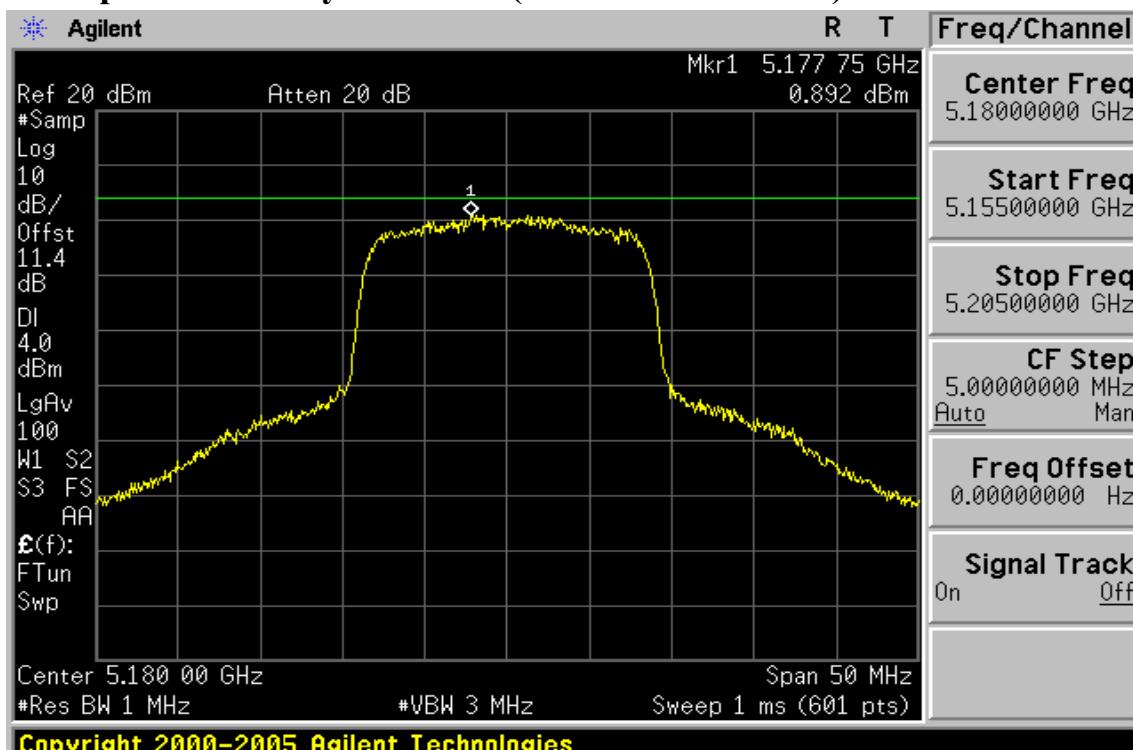
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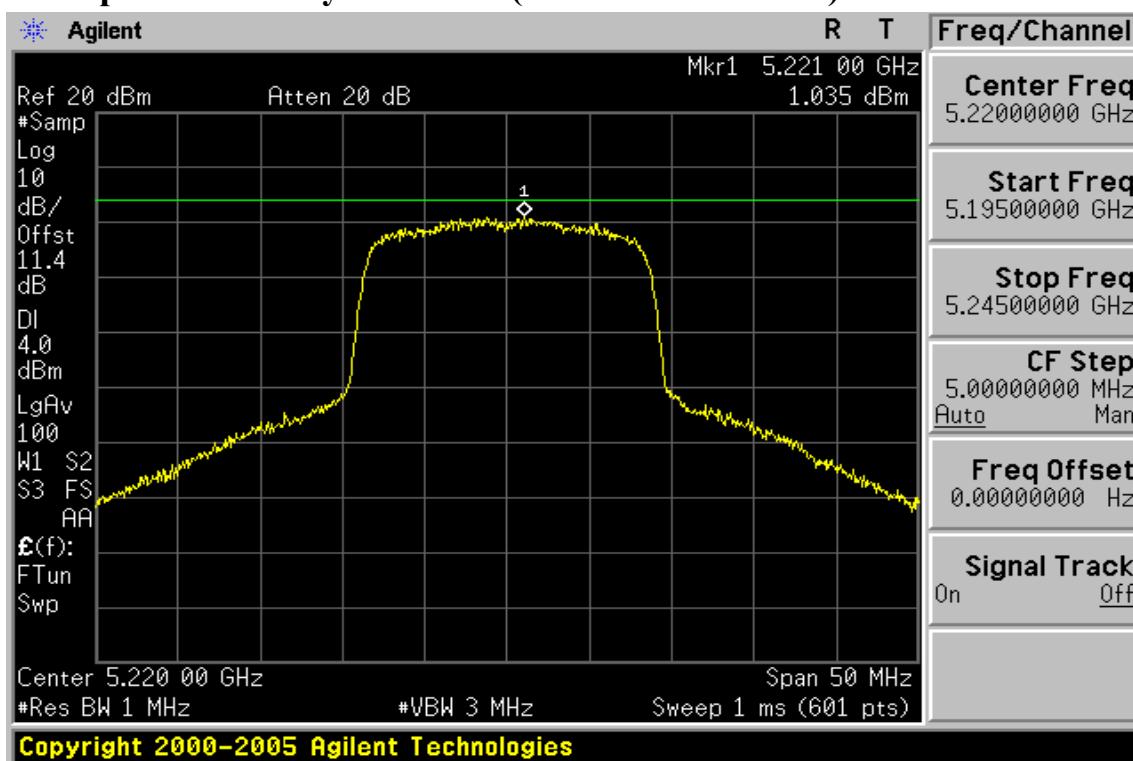
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802.11a, 5150~5250 MHz

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



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



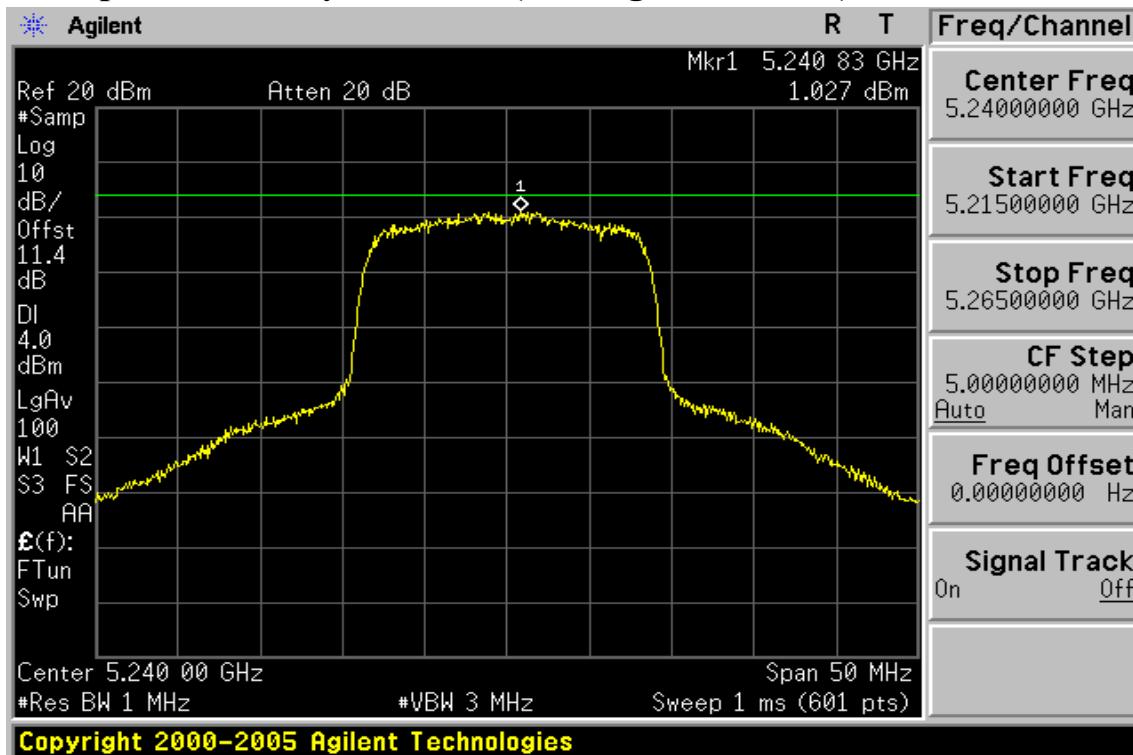
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Peak Power Spectral Density Data Plot (CH High 5240 MHz)



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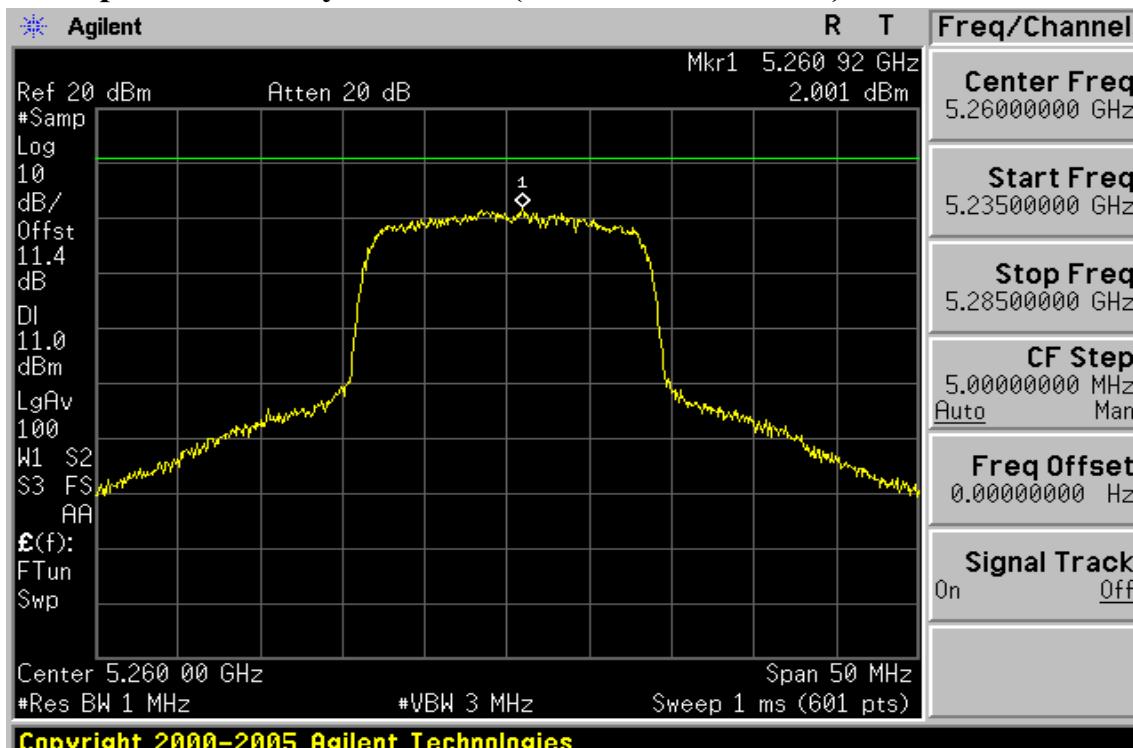
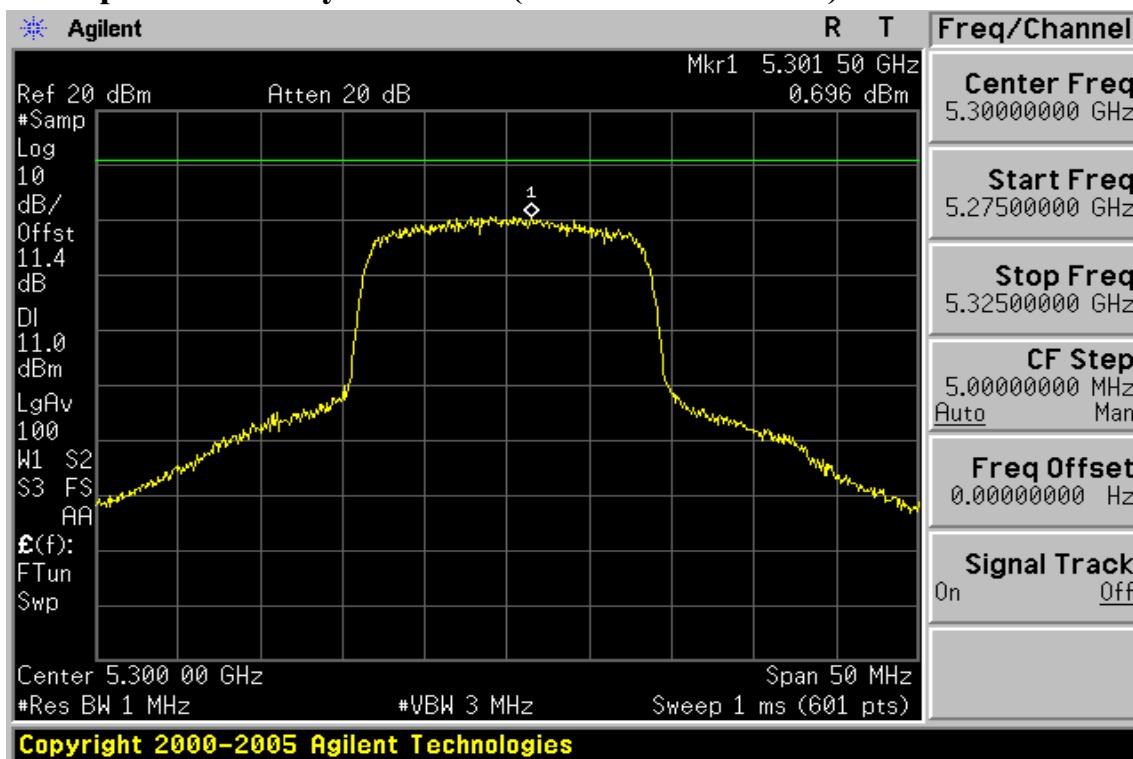
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802.11a, 5250~5350 MHz**Peak Power Spectral Density Data Plot (CH Low 5260 MHz)****Peak Power Spectral Density Data Plot (CH Mid 5300 MHz)**

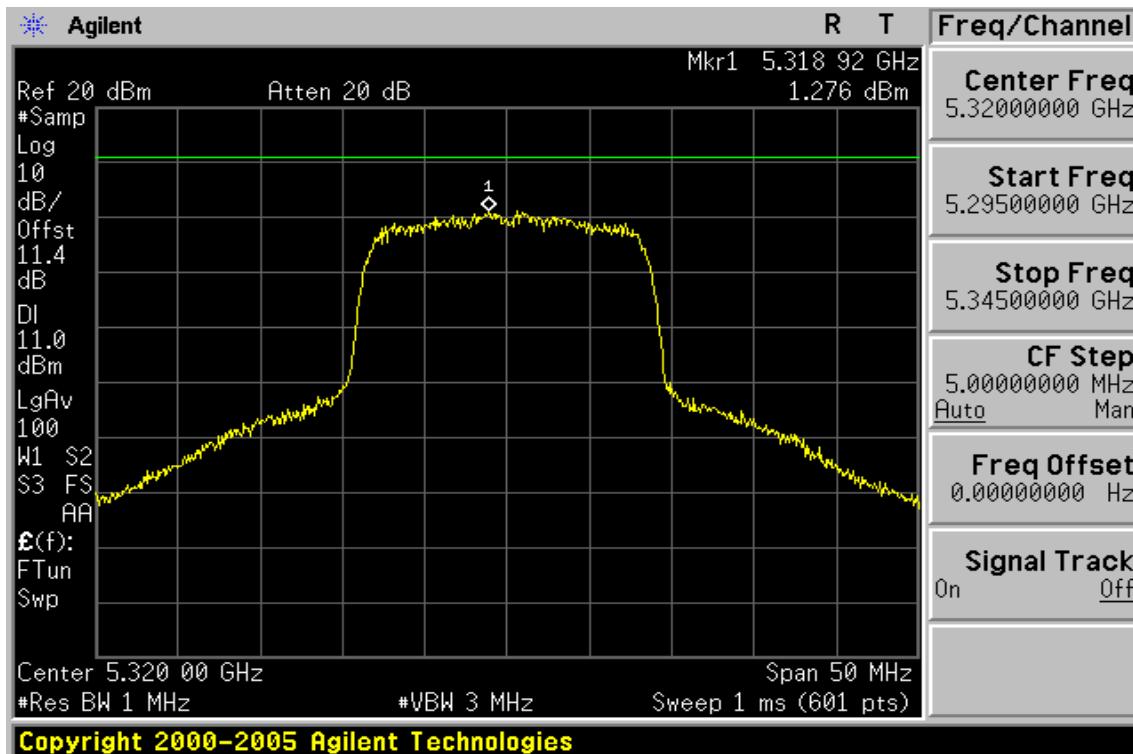
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Peak Power Spectral Density Data Plot (CH High 5320 MHz)



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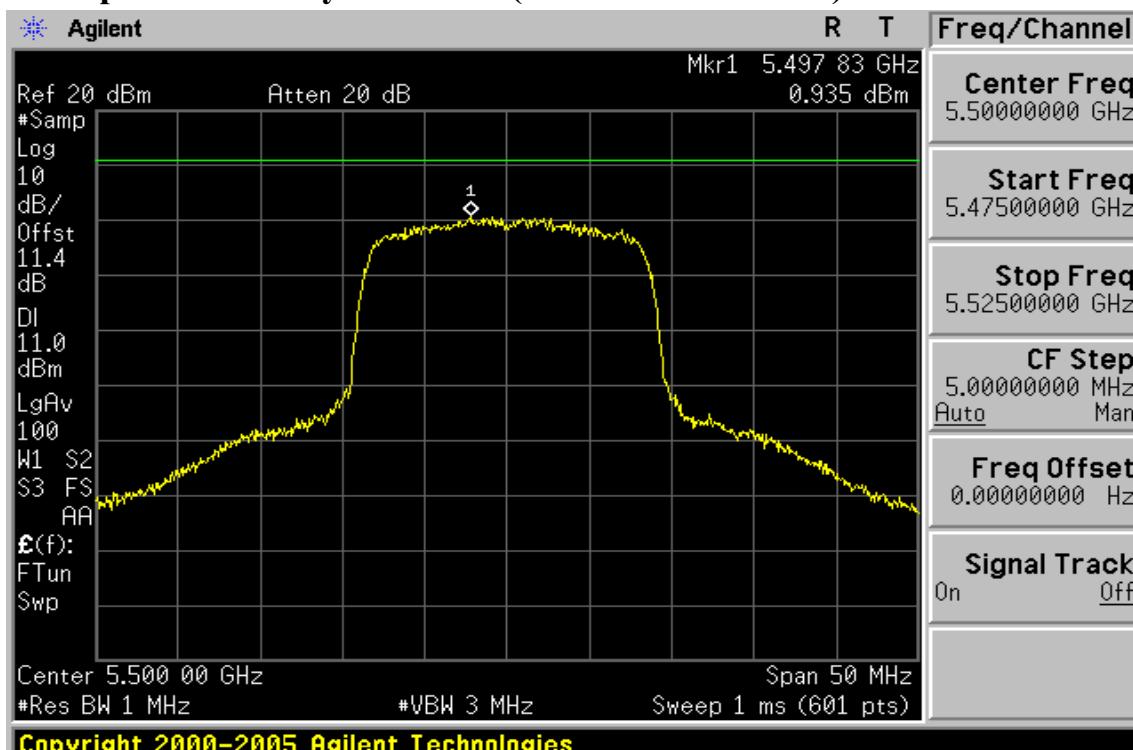
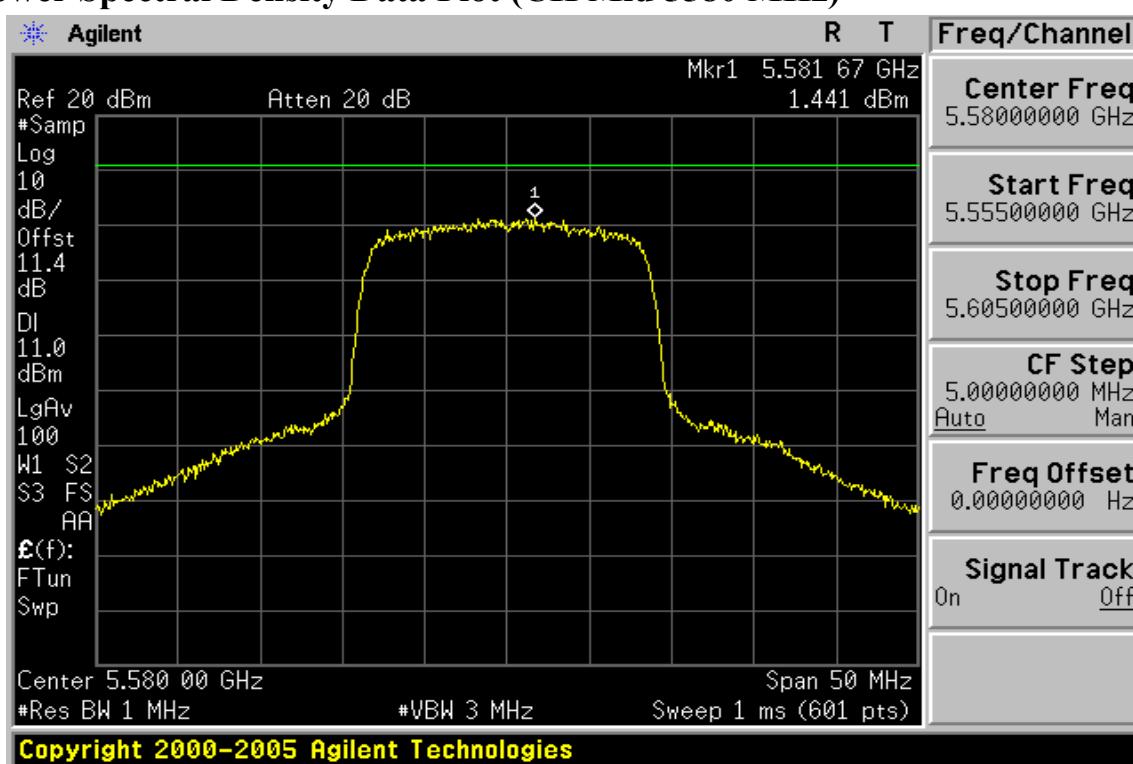
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802.11a, 5470~5725 MHz**Peak Power Spectral Density Data Plot (CH Low 5500 MHz)****Peak Power Spectral Density Data Plot (CH Mid 5580 MHz)**

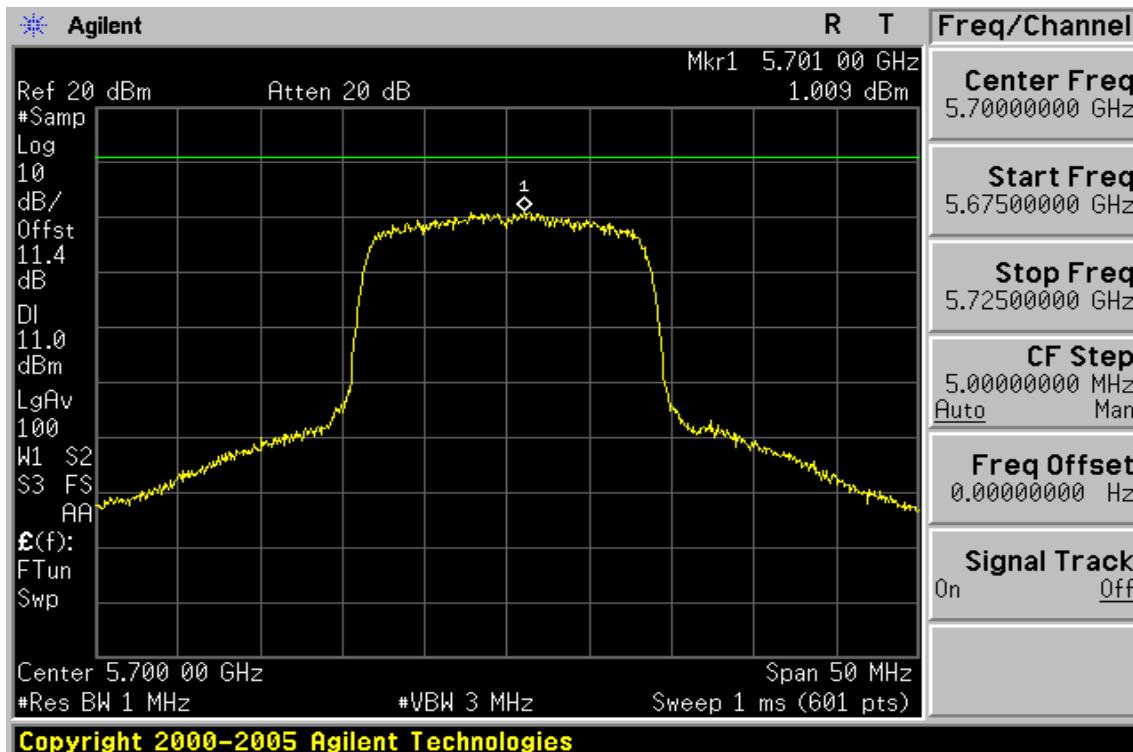
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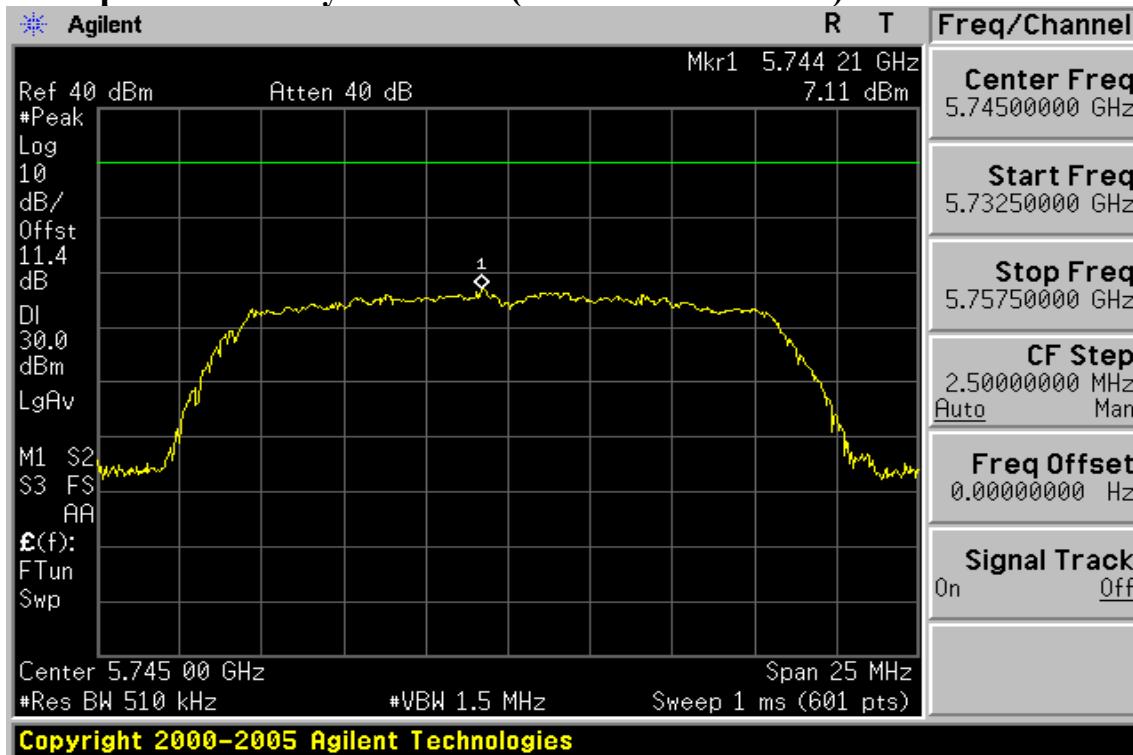
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Peak Power Spectral Density Data Plot (CH High 5700 MHz)



802.11a, 5725~5850 MHz

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



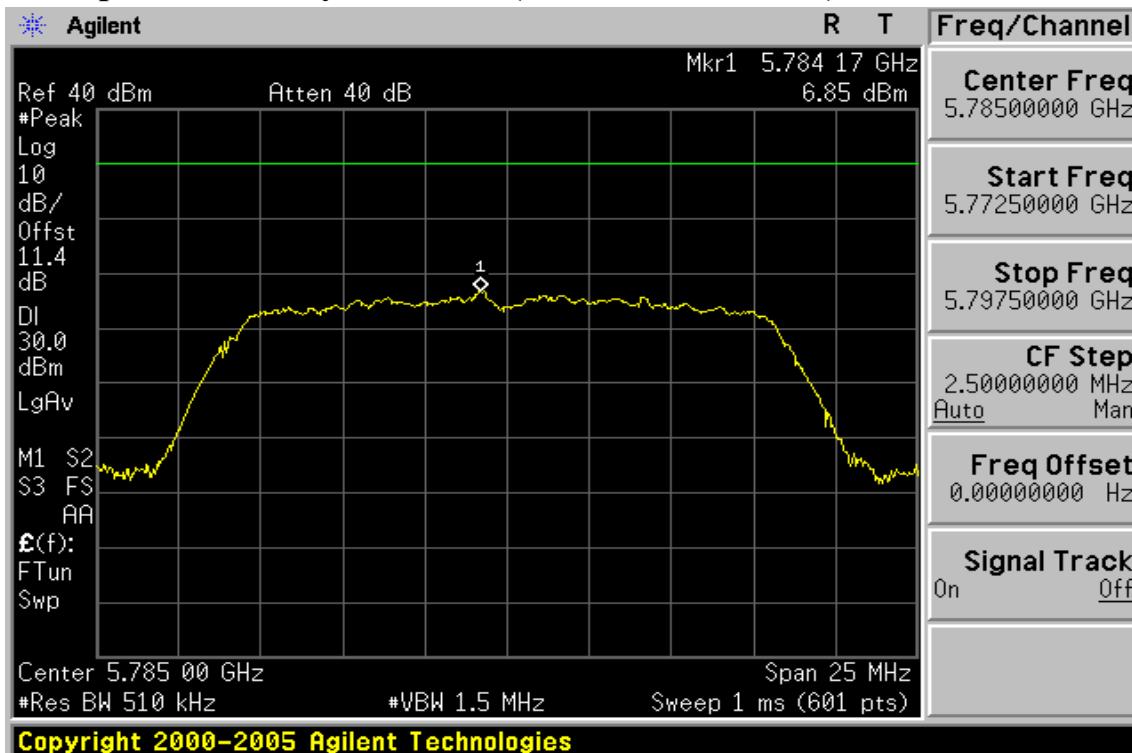
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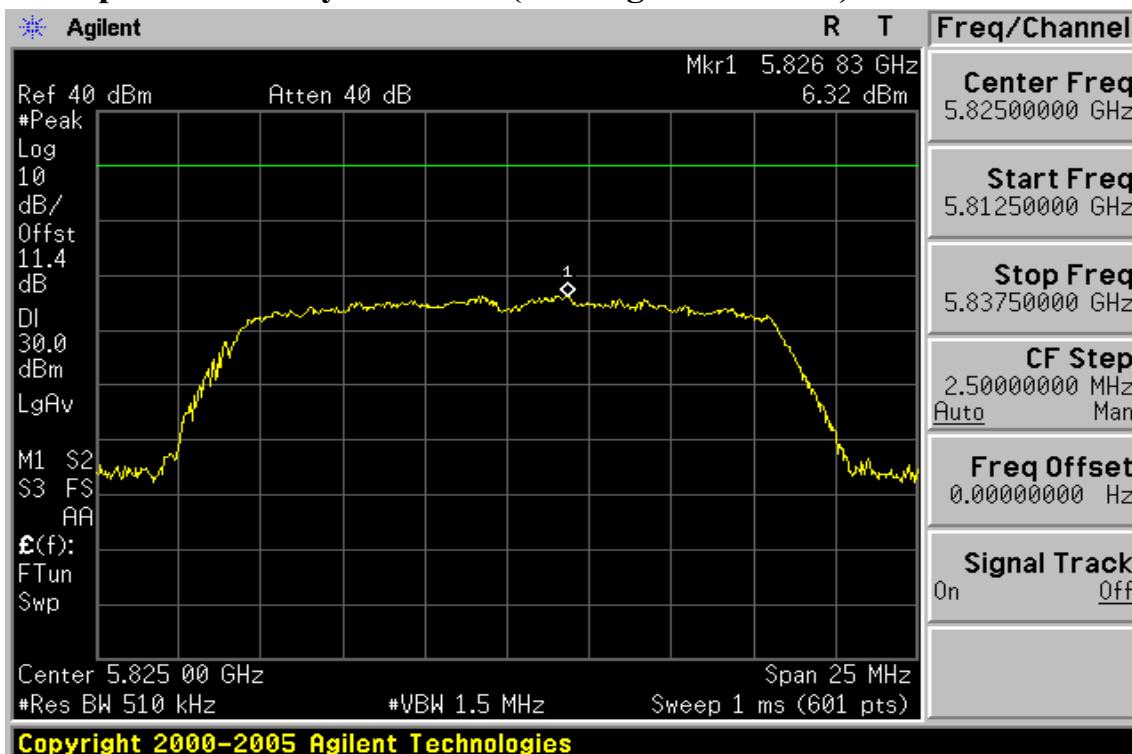
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Peak Power Spectral Density Data Plot (CH Mid 5785 MHz)



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



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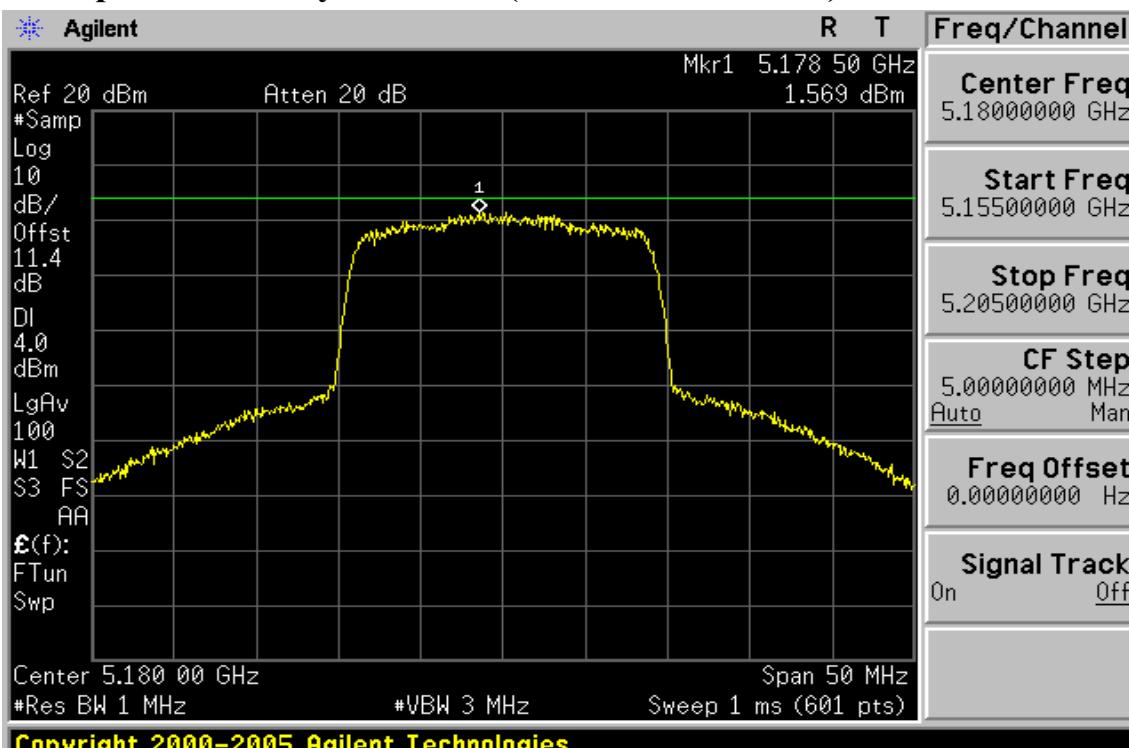
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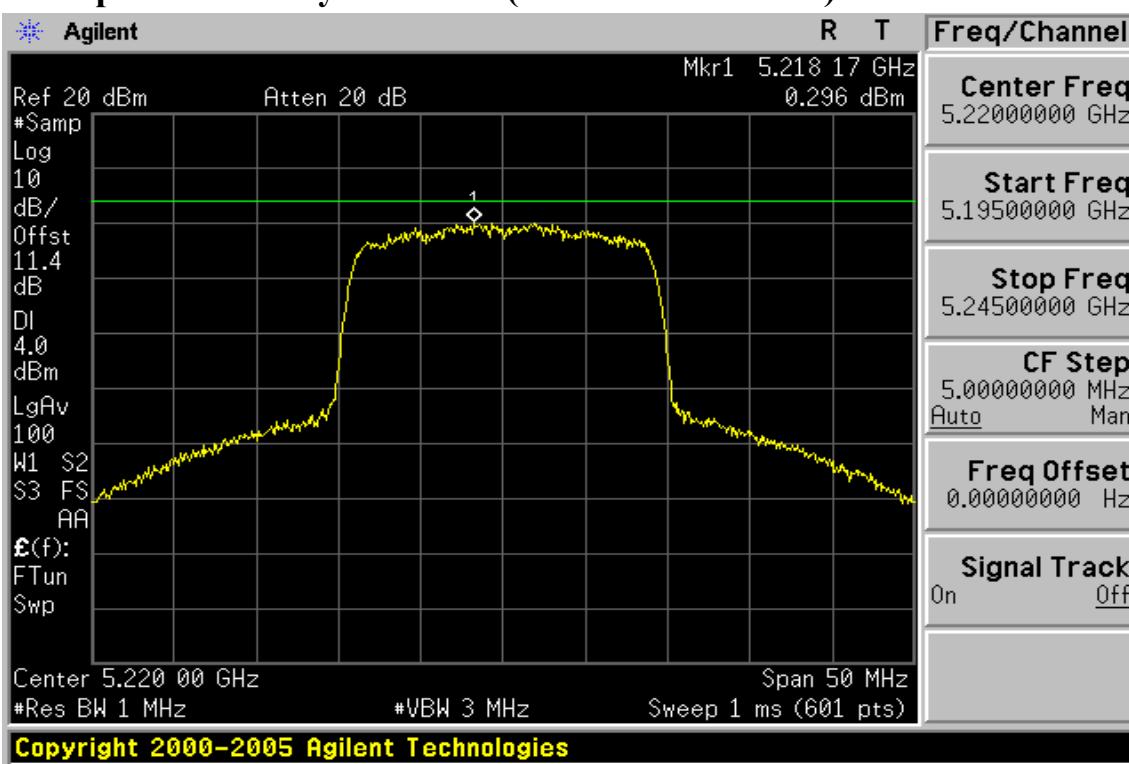
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802.11n HT20, 5150~5250 MHz

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



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



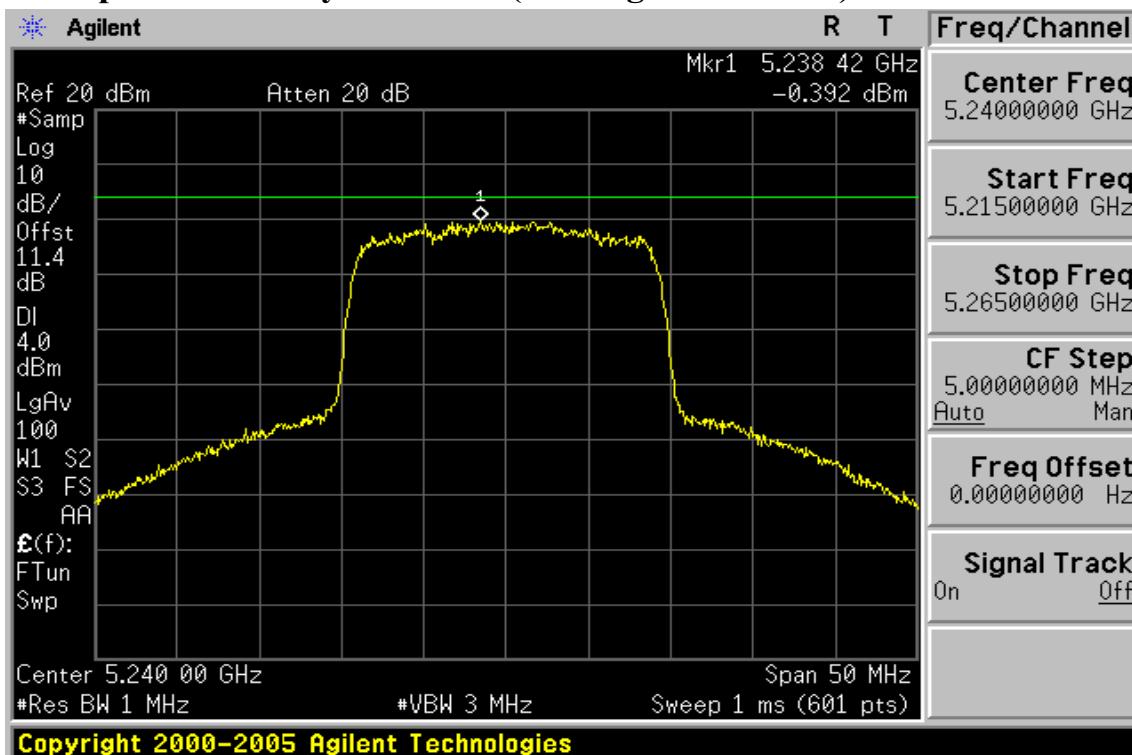
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Peak Power Spectral Density Data Plot (CH High 5240 MHz)



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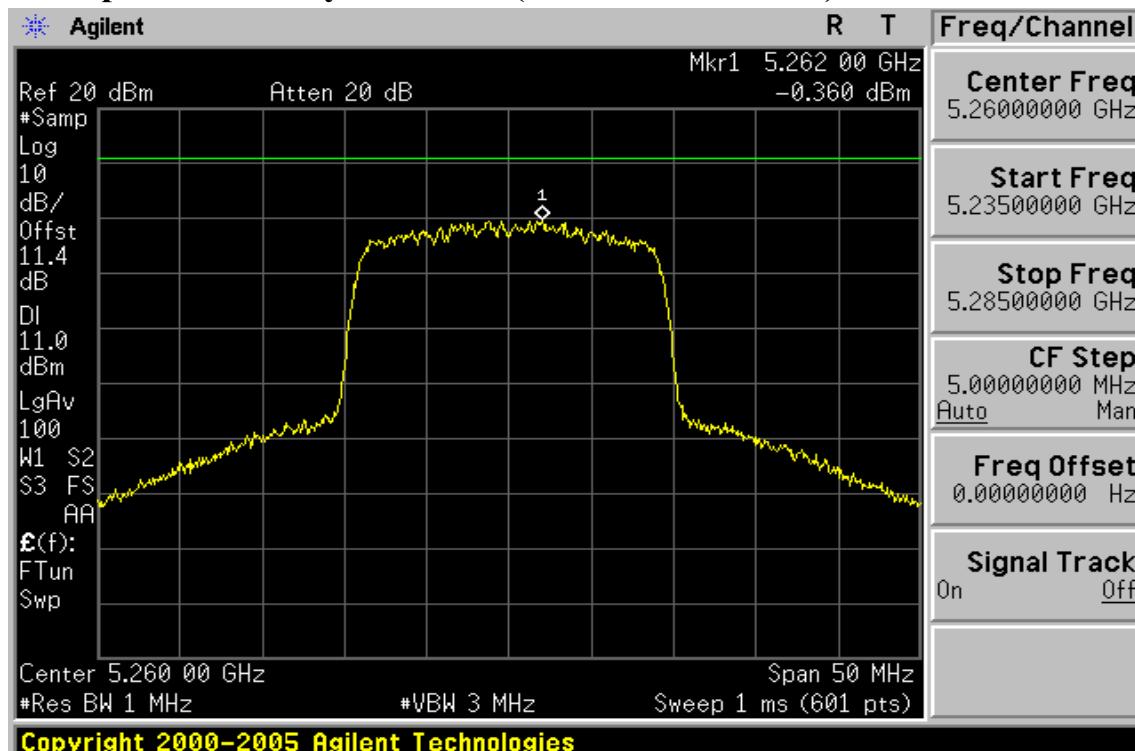
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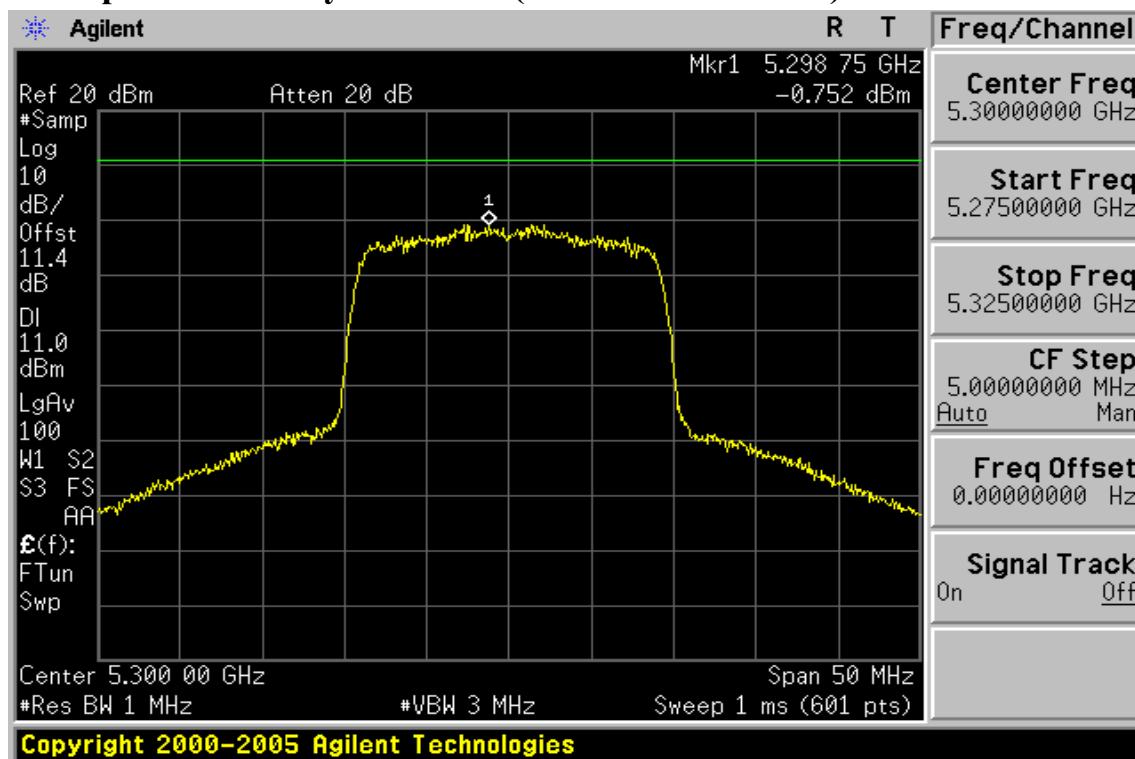
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802.11n HT20, 5250~5350 MHz

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



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



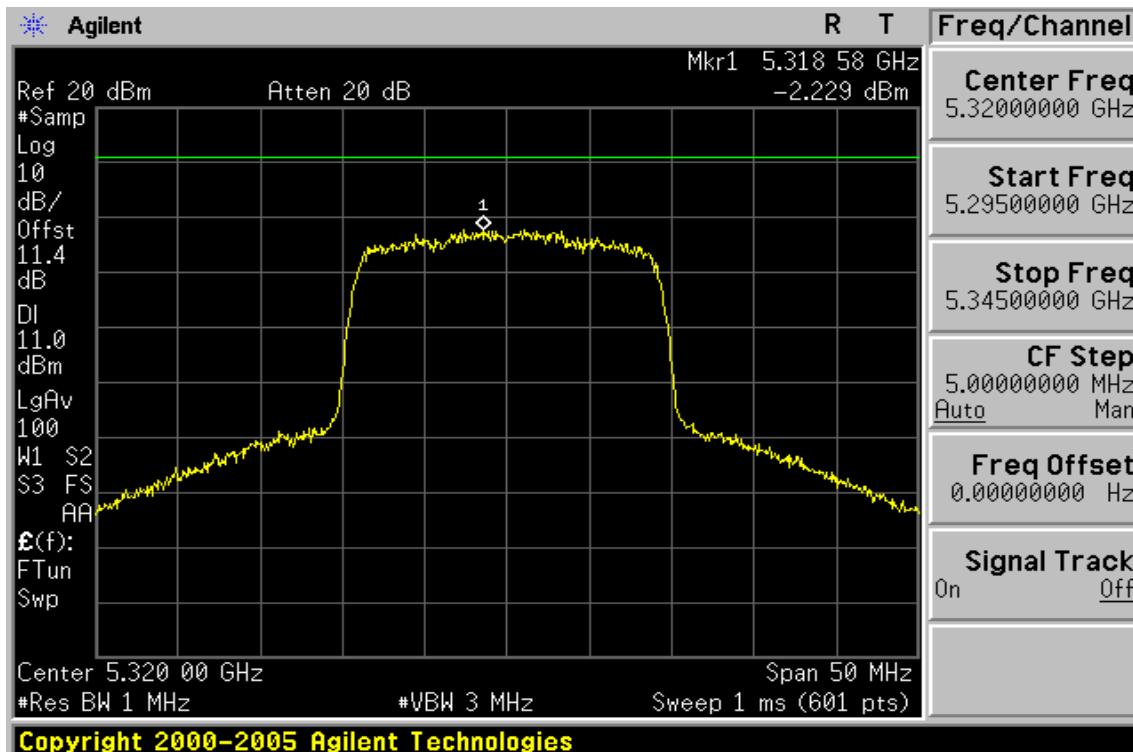
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Peak Power Spectral Density Data Plot (CH High 5320 MHz)



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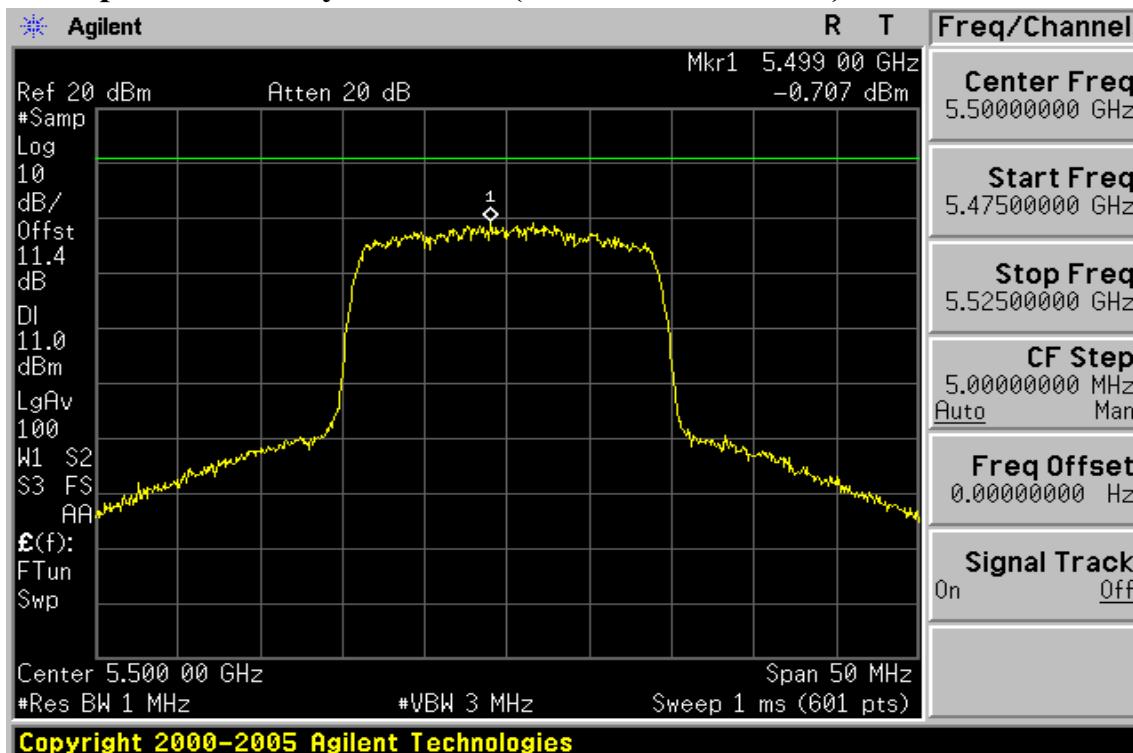
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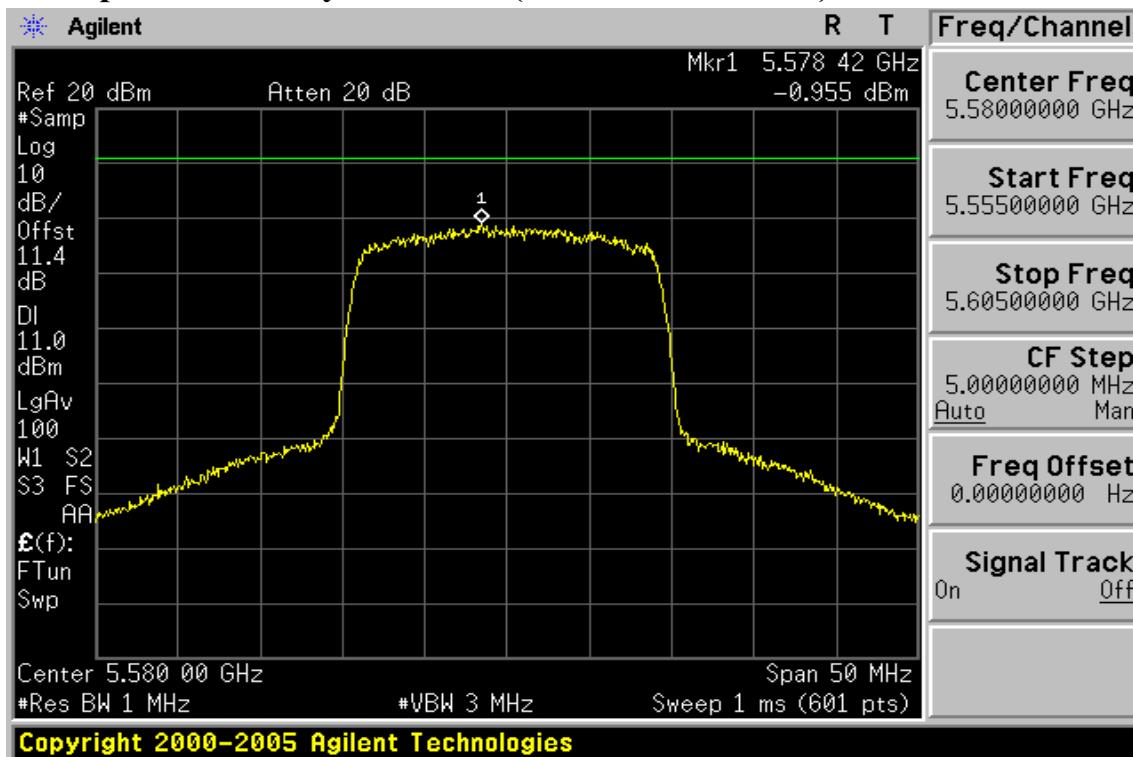
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802.11n HT20, 5470~5725 MHz**Peak Power Spectral Density Data Plot (CH Low 5500 MHz)**

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

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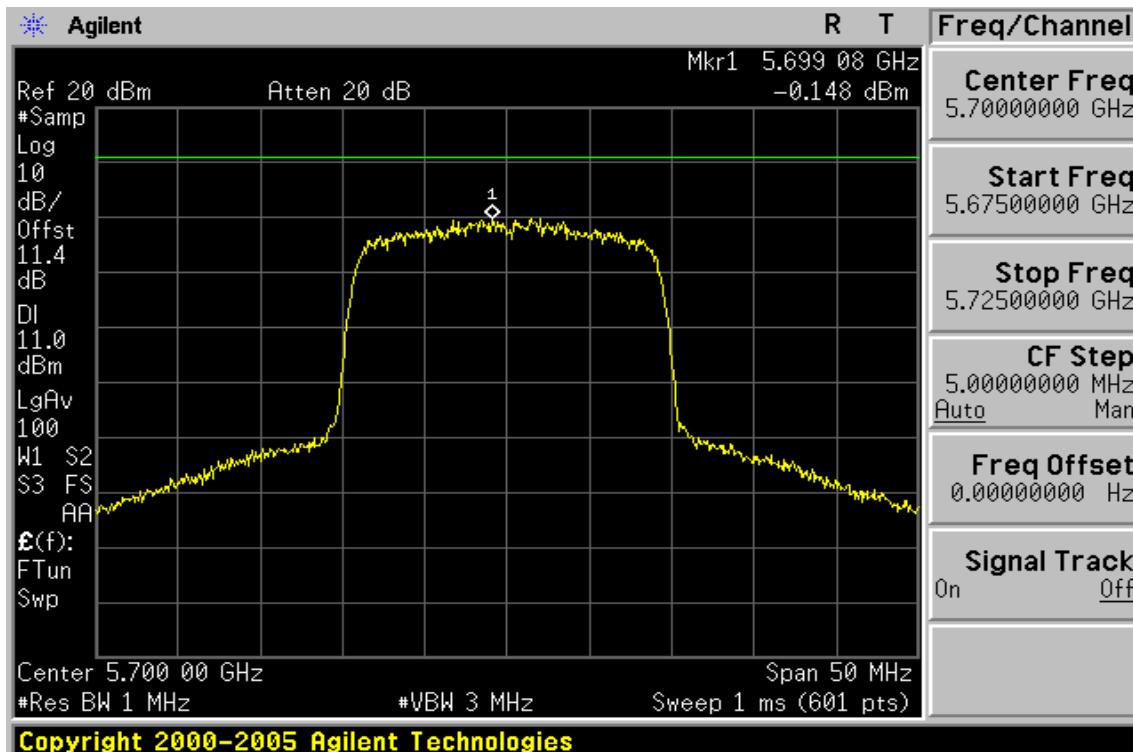
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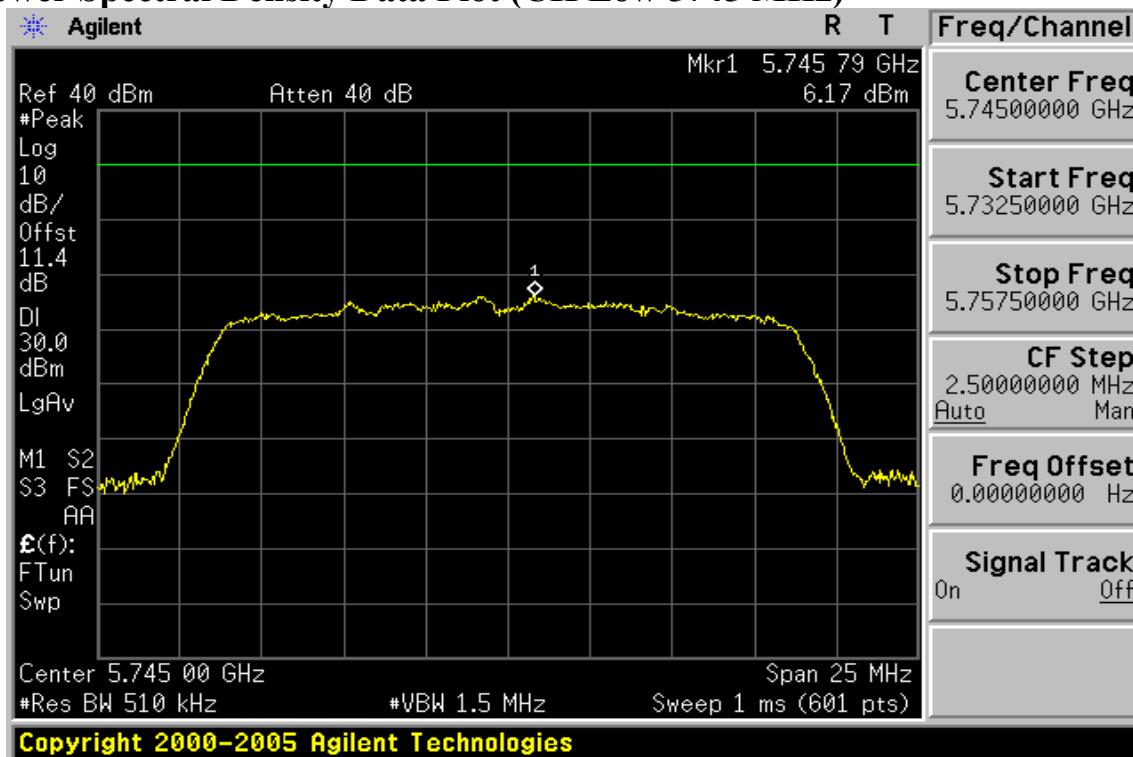
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Peak Power Spectral Density Data Plot (CH High 5700 MHz)



802.11n HT20, 5725~5850 MHz

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



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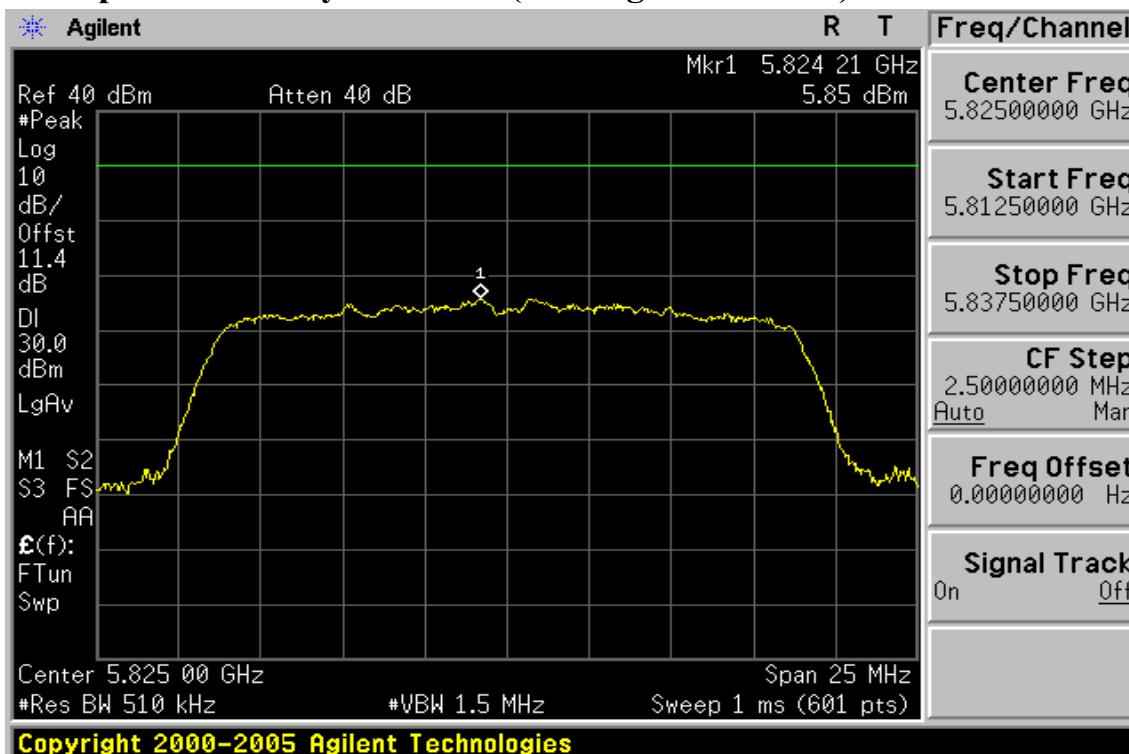
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Peak Power Spectral Density Data Plot (CH Mid 5785 MHz)



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



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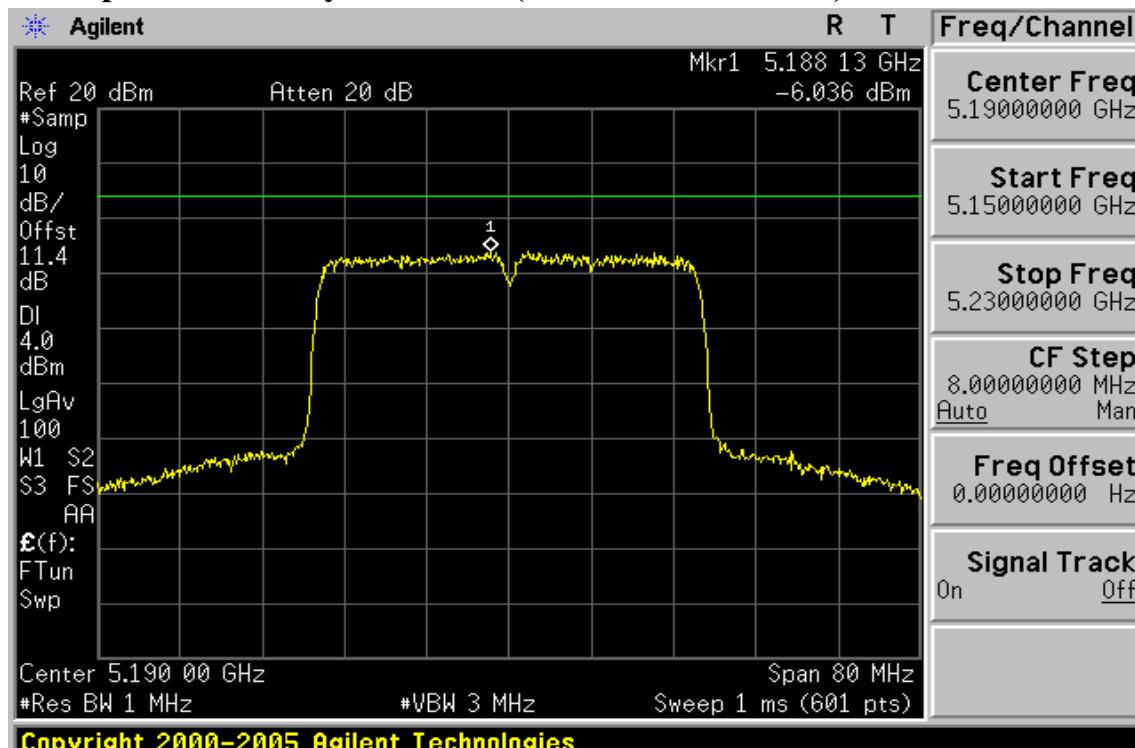
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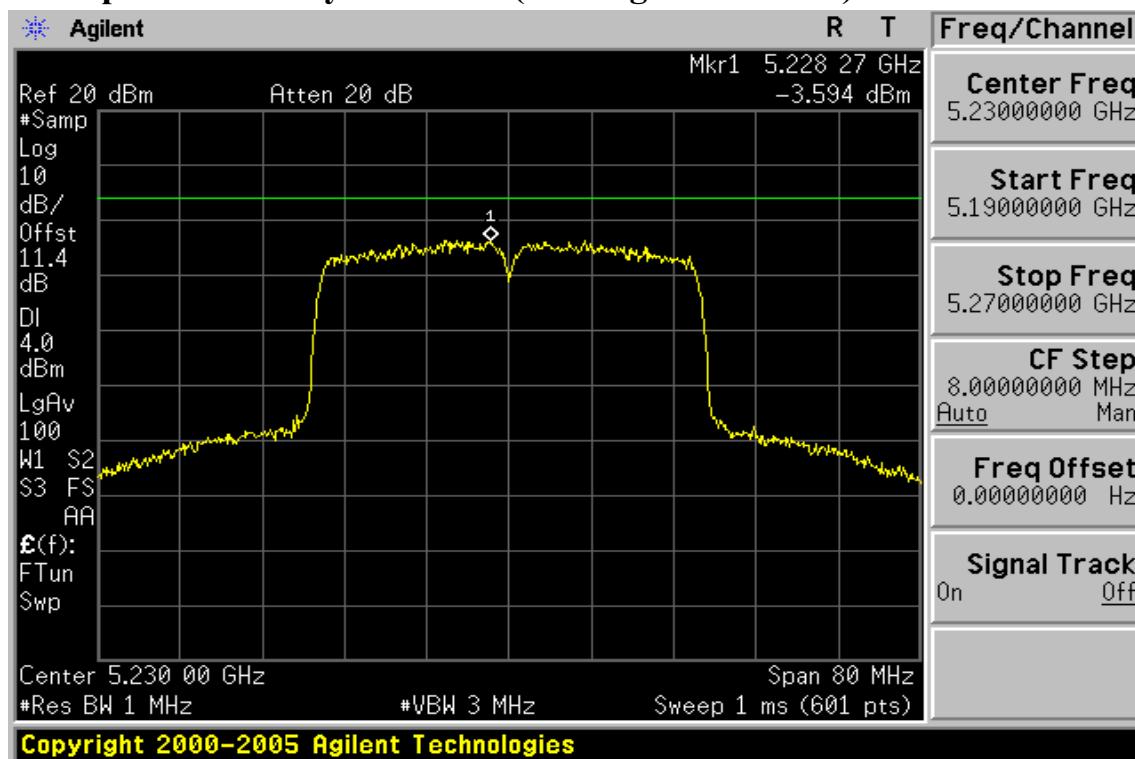
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802.11n HT40, 5150~5250 MHz

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



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



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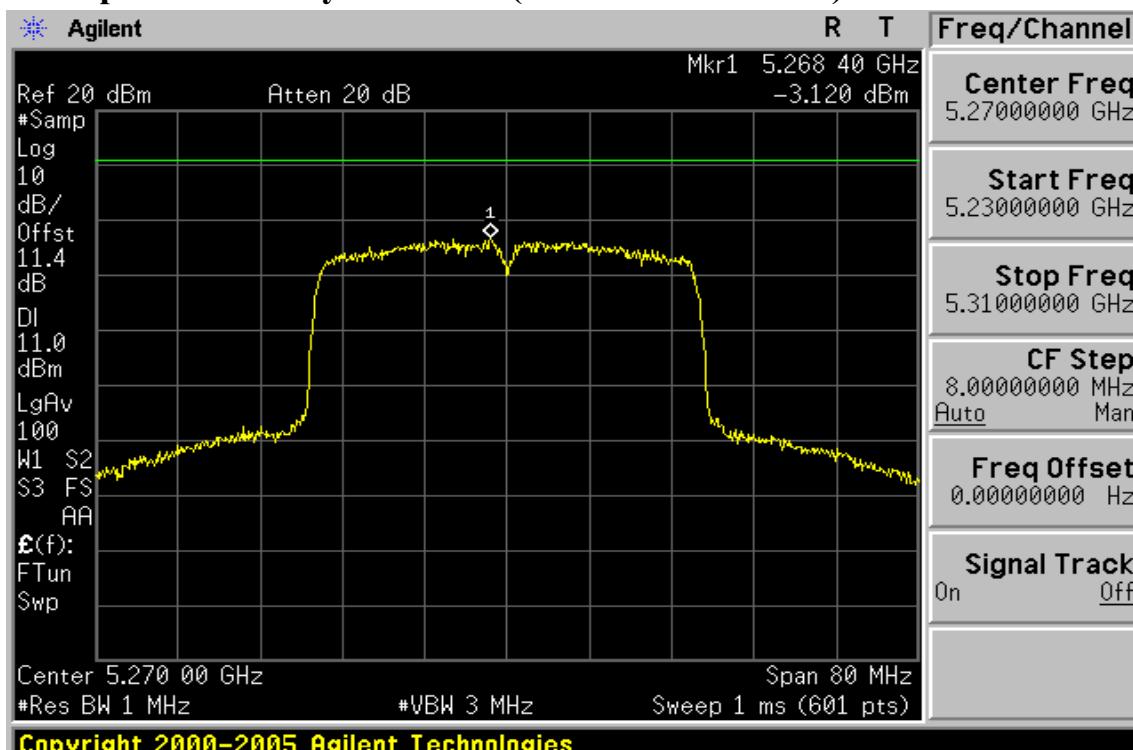
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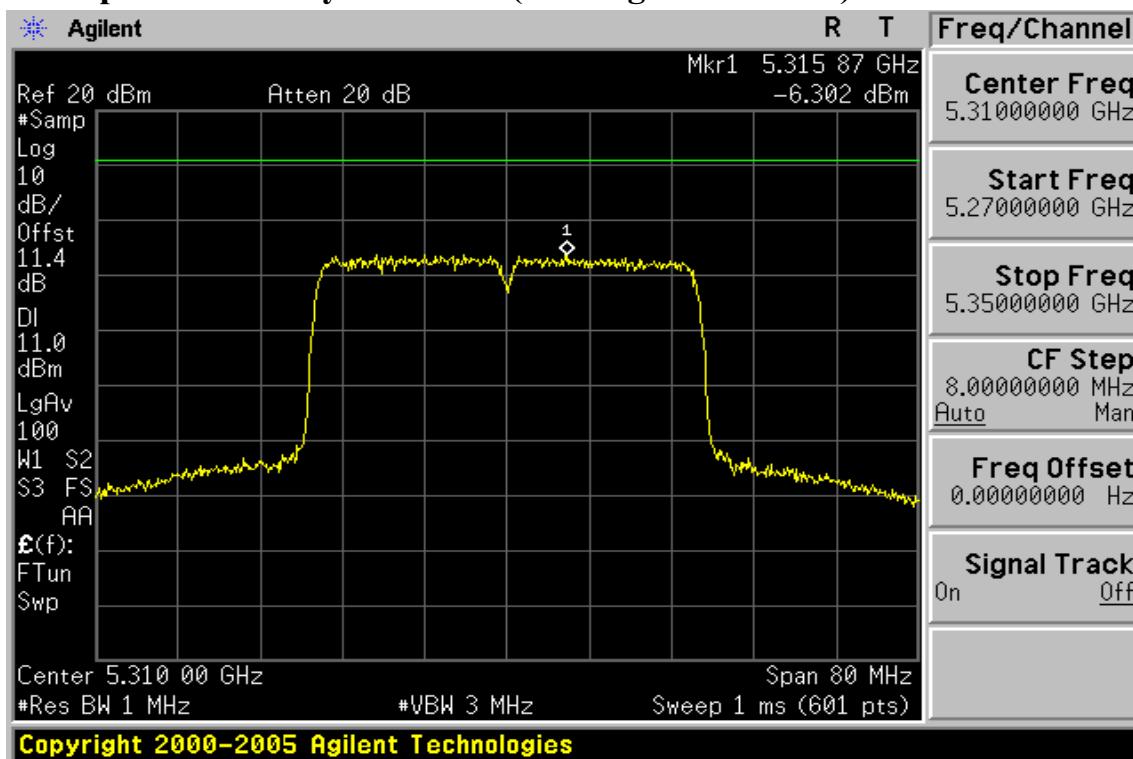
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802.11n HT40, 5250~5350 MHz

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



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



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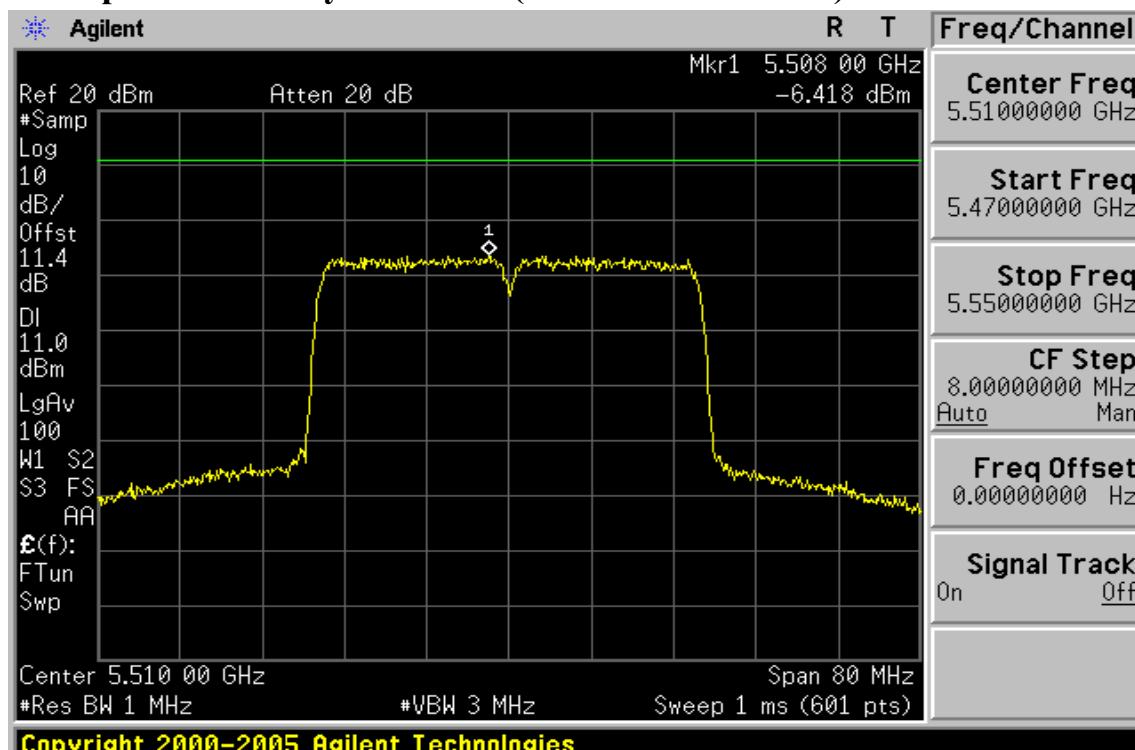
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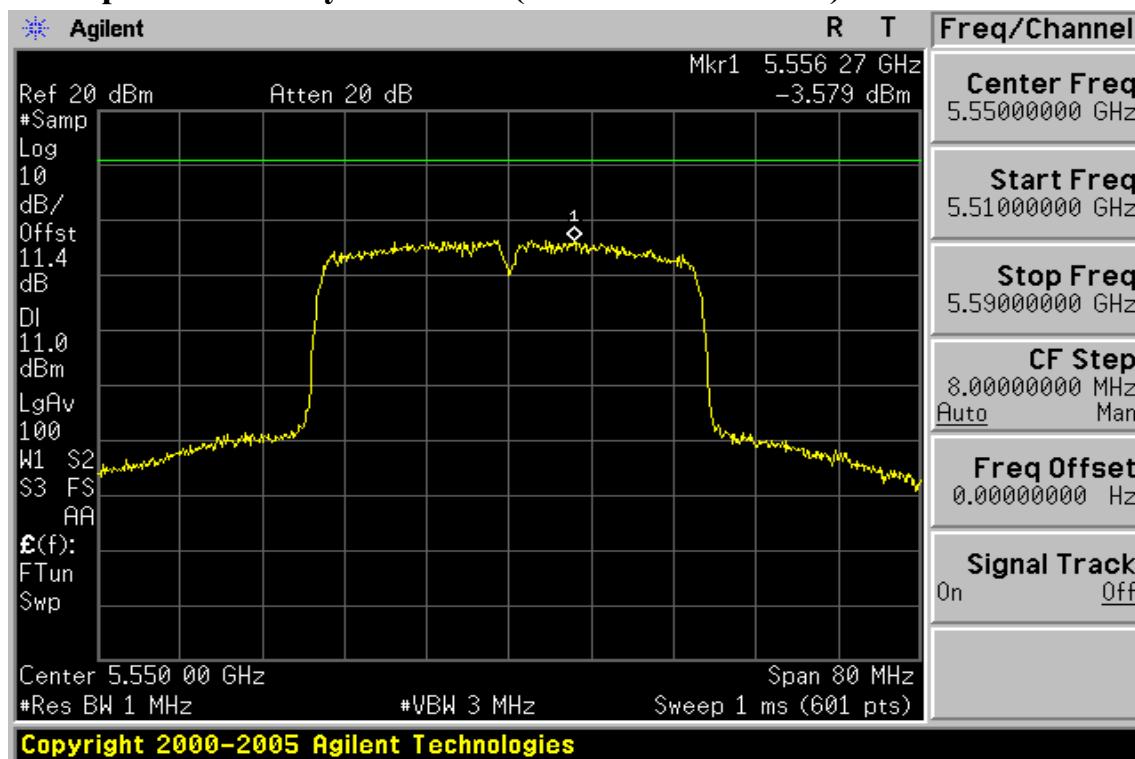
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802.11n HT40, 5470~5725 MHz

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



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



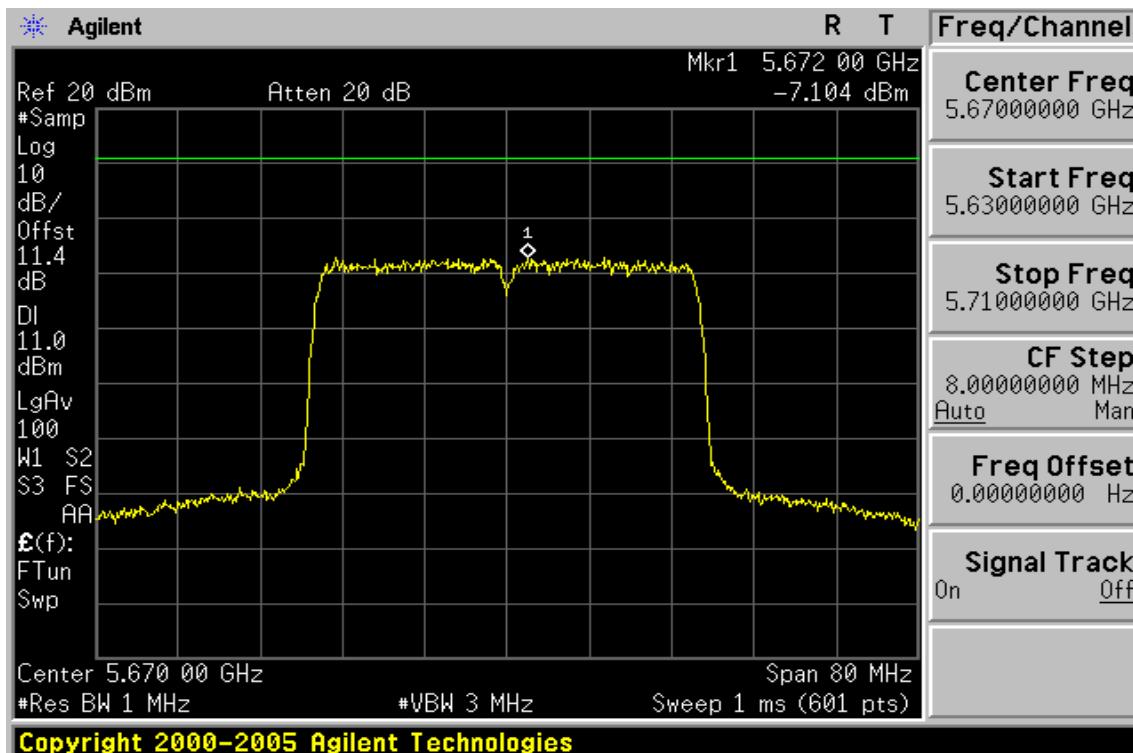
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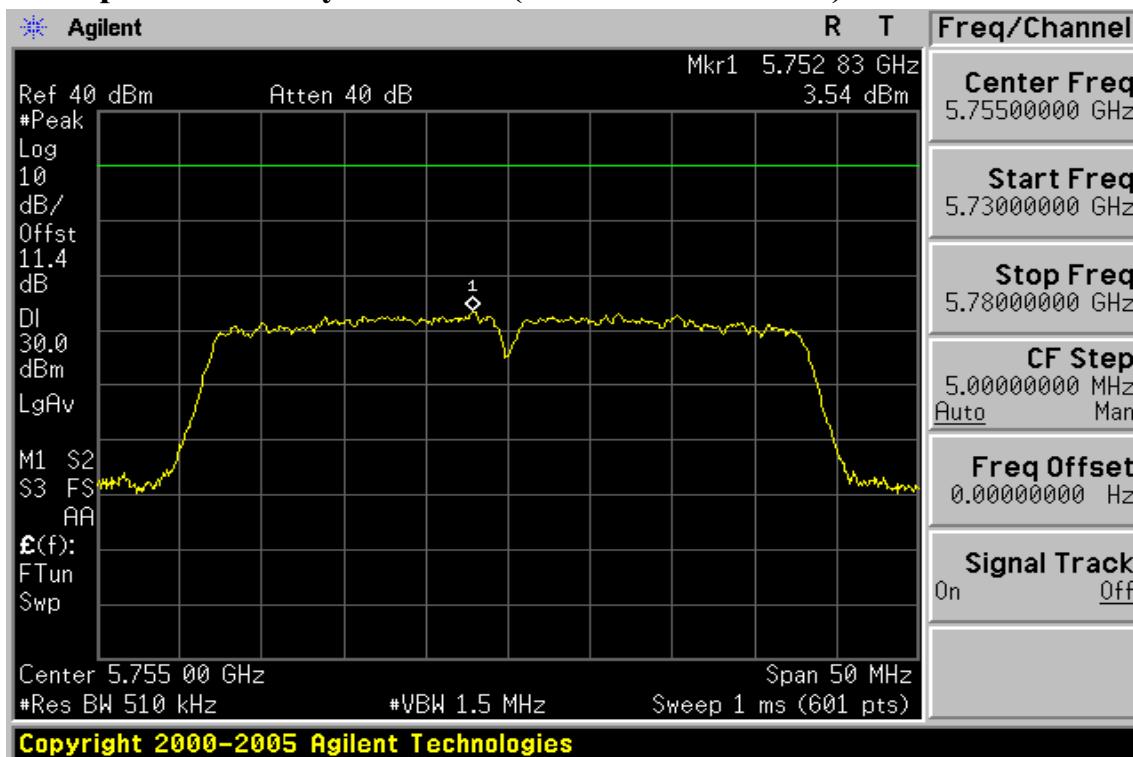
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Peak Power Spectral Density Data Plot (CH High 5670 MHz)



802.11n HT40, 5725~5850 MHz

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



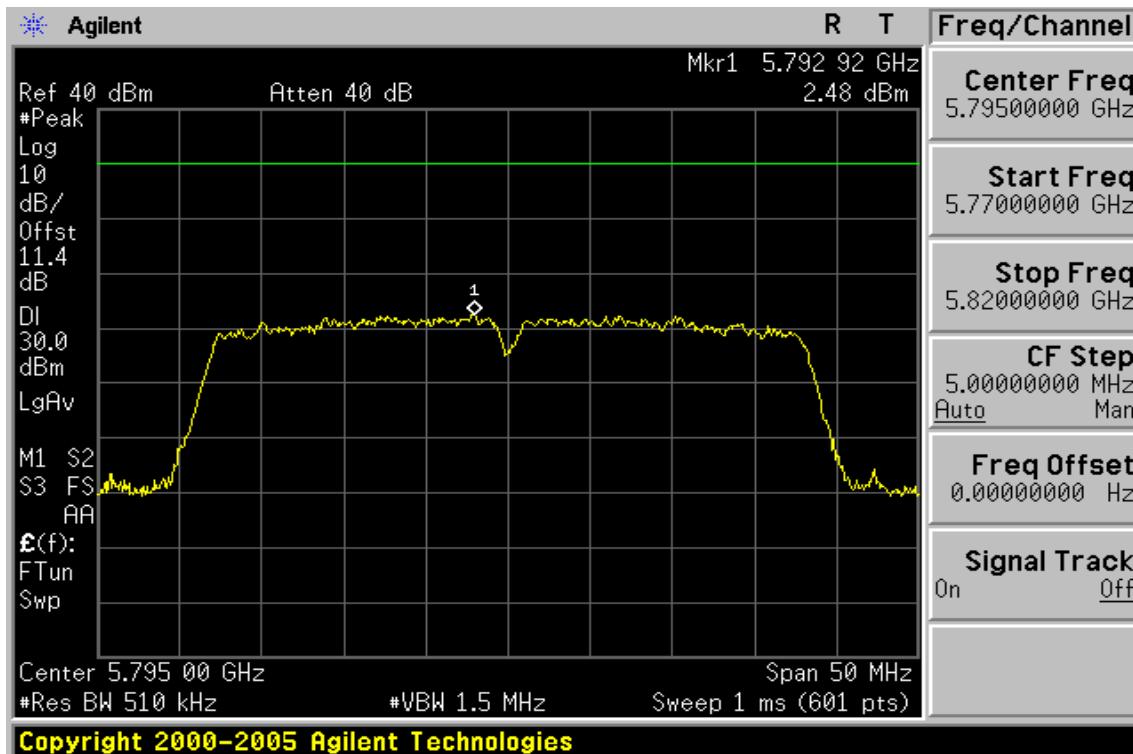
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Peak Power Spectral Density Data Plot (CH High 5795 MHz)



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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
¹ 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	(²)
13.36 - 13.41	322 - 335.4		

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

² 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 (MHz)	FIELD STRENGTH (Microvolts/m)	FIELD STRENGTH (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 (MHz)	Field Strength (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:

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

$$\begin{aligned} E &= 1000000 * (30 * EIRP)^{(1/2)} / 3 \text{ uV/m} \\ &= 68.3 \text{ dBuV/m} \end{aligned}$$

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:

$$\begin{aligned} E &= 1000000 * (30 * EIRP)^{(1/2)} / 3 \text{ uV/m} \\ &= 78.2 \text{ dBuV/m} \end{aligned}$$

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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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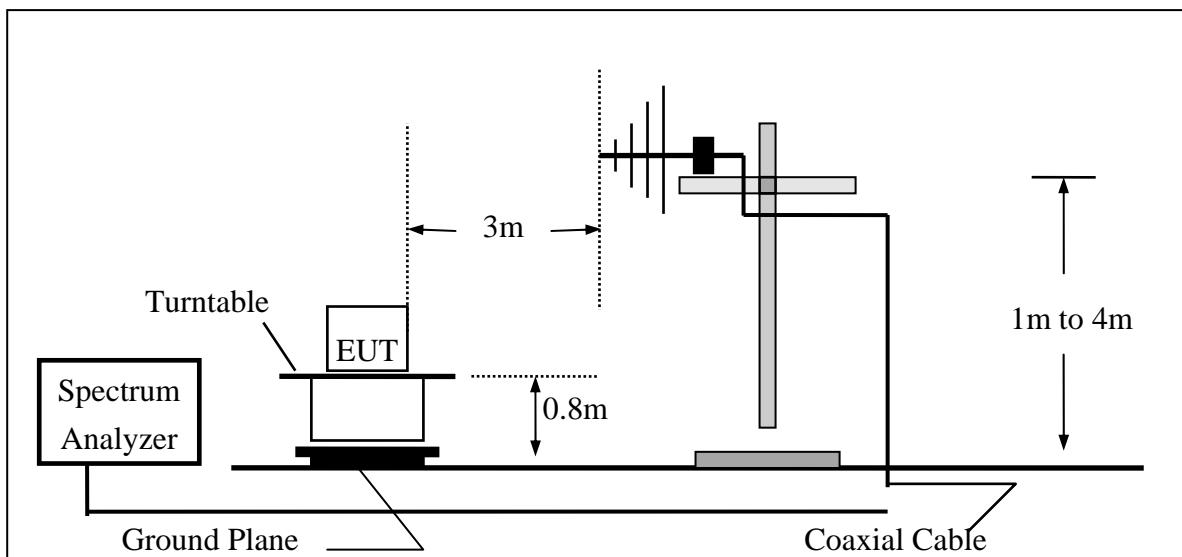
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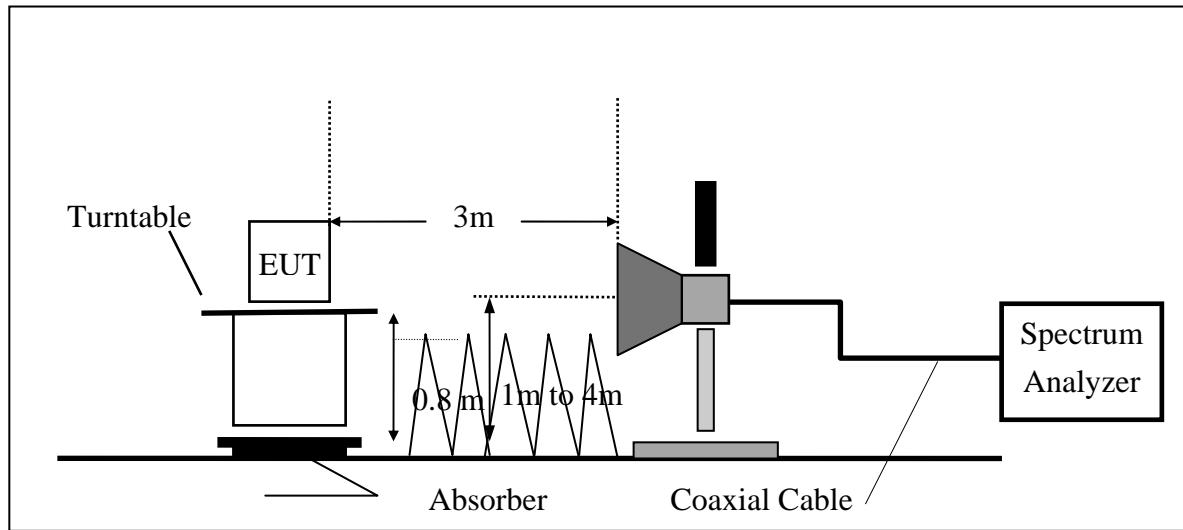
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10.4 Test SET-UP (Block Diagram of Configuration)

(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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
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
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. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V		
		PK/QP/AV					
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
 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. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit	Margin
					FS dB μ V	dB μ V/m	dB μ V/m
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
 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. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit	Margin
					FS dB μ V	dB μ V/m	dB μ V/m
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
 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. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit	Margin
					FS dB μ V	dB μ V/m	dB μ V/m
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
 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. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit	Margin
					FS dB μ V	dB μ V/m	dB μ V/m
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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual FS dB μ V	Limit @3m	Margin
						dB μ V/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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V		
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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit	Margin
					FS dB μ V	dB μ V/m	dB μ V/m
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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V		
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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V		
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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit	Margin
					FS dB μ V	dB μ V/m	dB μ V/m
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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual FS dB μ V	Limit @3m	Margin
						dB μ V/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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V		
		PK/QP/AV					
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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V		
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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit	Margin
					FS dB μ V	dB μ V/m	dB μ V/m
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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
			Mode		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
			Mode		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual FS dB μ V	Limit @3m	Margin
						dB μ V/m	dB μ V/m
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
 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. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit	Margin
					FS dB μ V	dB μ V/m	dB μ V/m
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
 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. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual FS dB μ V	Limit @3m	Margin
						dB μ V/m	dB μ V/m
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
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. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V		
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
 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. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V	dB μ V/m	dB μ V/m
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
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. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V		
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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual FS dB μ V	Limit @3m	Margin
						dB μ V/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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit	Margin
					FS dB μ V	dB μ V/m	dB μ V/m
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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f (886-2) 2298-0488

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Member of SGS Group

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V		
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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V		
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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual FS dB μ V	Limit @3m	Margin
						dB μ V/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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V		
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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual FS dB μ V	Limit @3m	Margin
						dB μ V/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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V		
		PK/QP/AV		dB	dB μ V/m	dB μ V/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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f (886-2) 2298-0488

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V		
					dB μ V/m	dB μ V/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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V		
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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual FS dB μ V	Limit @3m	Margin
						dB μ V/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
 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. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V		
		PK/QP/AV					
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
 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. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V	dB μ V/m	dB μ V/m
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
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. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V		
		PK/QP/AV					
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
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. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V		
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
 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. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V		
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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
			Mode		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
			Mode		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

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

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

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

“---“ : denotes Noise Floor.

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

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
			Mode		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

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

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

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

“---“ : denotes Noise Floor.

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

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
			Mode		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
			Mode		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
			Mode		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual FS dB μ V	Limit @3m	Margin
						dB μ V/m	dB μ V/m
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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V		
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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V	dB μ V/m	dB μ V/m
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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V		
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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit	Margin
					FS dB μ V	dB μ V/m	dB μ V/m
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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V		
		PK/QP/AV		dB	dB μ V/m	dB μ V/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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
			Mode		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
			Mode		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual FS dB μ V	Limit @3m	Margin
						dB μ V/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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V		
		PK/QP/AV		dB	dB μ V/m	dB μ V/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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V		
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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual FS dB μ V	Limit @3m	Margin
						dB μ V/m	dB μ V/m
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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V		
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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual FS dB μ V	Limit @3m	Margin
						dB μ V/m	dB μ V/m
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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
			Mode		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
			Mode		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin 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
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. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V		
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
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. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V		
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
 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. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit @3m dB μ V/m	Margin dB
					FS dB μ V/m		
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
 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. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit @3m dB μ V/m	Margin dB
					FS dB μ V/m		
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
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. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V		
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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

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

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

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

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

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			Mode	Reading Level dB μ V				
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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

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

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

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

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

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

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Operation Band :802.11 a
 Fundamental Frequency :5825 MHz
 Operation Mode :Band Edge HIGH
 EUT Pol. :E1 Plane

Test Date :2014-11-17
 Temp./Humi. :23 deg_C / 58 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

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

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

Operation Band :802.11 a
 Fundamental Frequency :5825 MHz
 Operation Mode :Band Edge HIGH
 EUT Pol. :E1 Plane

Test Date :2014-11-17
 Temp./Humi. :23 deg_C / 58 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

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

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m	Margin
						dB μ V/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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin 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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin 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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual FS dB μ V	Limit @3m dB μ V/m	Margin 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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V		
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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin 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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V		
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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

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

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

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

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

Freq. MHz	Note F/H/E/S	Detector PK/QP/AV	Spectrum		Factor dB	Actual dB μ V/m	Limit @3m dB μ V/m	Margin dB
			Mode	Reading Level dB μ V				
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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

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

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

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

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

Freq. MHz	Note F/H/E/S	Detector PK/QP/AV	Spectrum		Factor dB	Actual dB μ V/m	Limit @3m dB μ V/m	Margin dB
			Mode	Reading Level dB μ V				
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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

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

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

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

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

Freq. MHz	Note F/H/E/S	Detector PK/QP/AV	Spectrum		Factor dB	Actual dB μ V/m	Limit @3m dB μ V/m	Margin dB
			Mode	Reading Level dB μ V				
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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

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

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

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

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

Freq. MHz	Note F/H/E/S	Detector PK/QP/AV	Spectrum		Factor dB	Actual dB μ V/m	Limit @3m dB μ V/m	Margin dB
			Mode	Reading Level dB μ V				
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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V		
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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V		
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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V		
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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

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

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

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

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

Freq. MHz	Note F/H/E/S	Detector PK/QP/AV	Spectrum		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			Mode	Reading Level dB μ V				
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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

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

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

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

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

Freq. MHz	Note F/H/E/S	Detector PK/QP/AV	Spectrum		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			Mode	Reading Level dB μ V				
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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

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

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m	Margin
						dB μ V/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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

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

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m	Margin
						dB μ V/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
		36	5180.0000	5,180.001200	-0.0012
60	4.35V	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
		36	5180.0000	5,180.001400	-0.0014
60	4.35V	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
		38	5190.0000	5,190.001070	-0.0011
60	4.35V	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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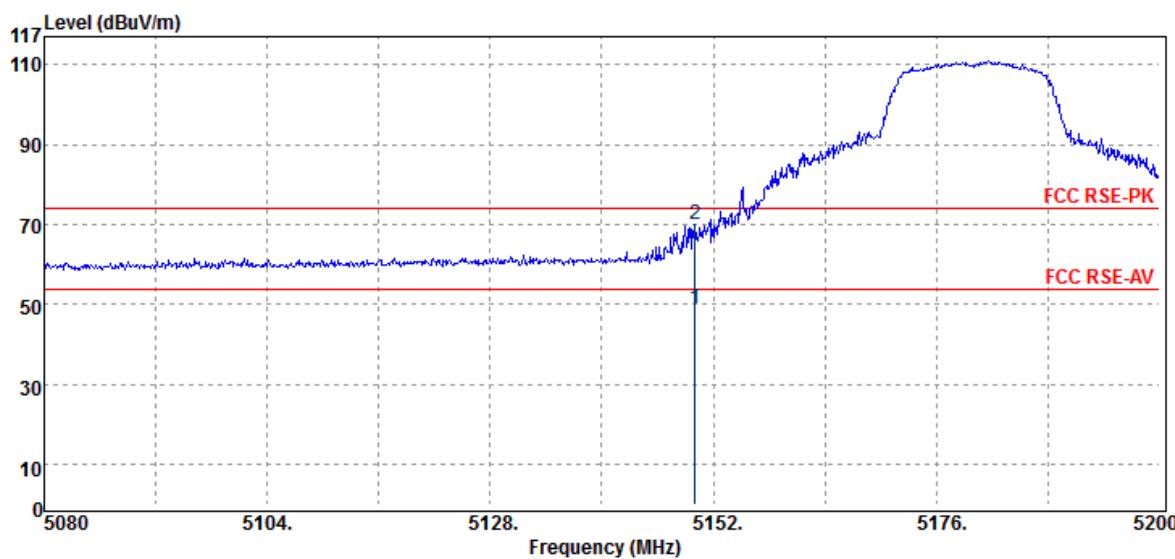
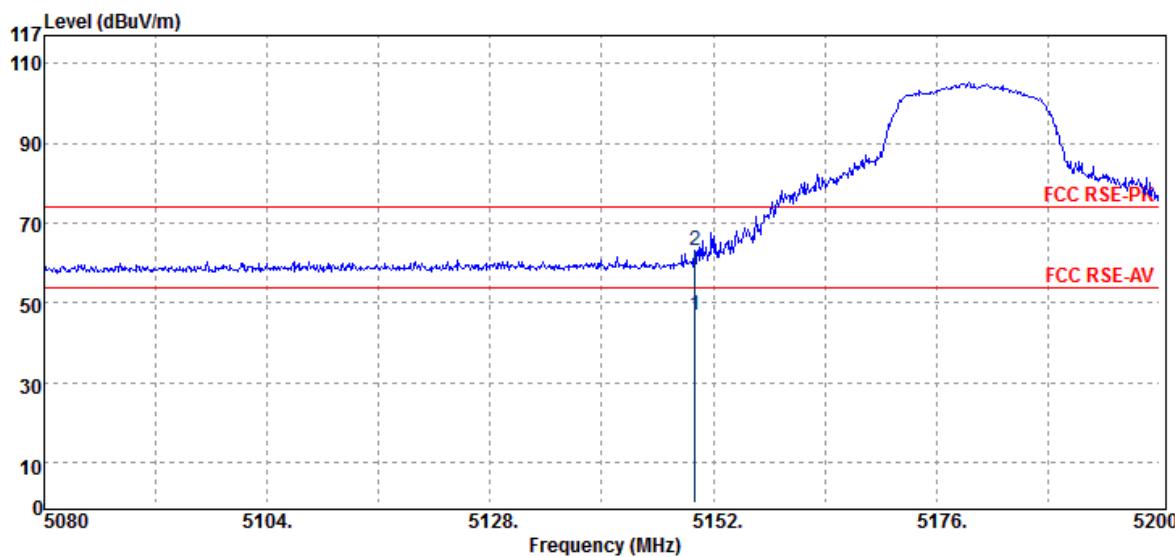
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Band Edges Radiated Emission:

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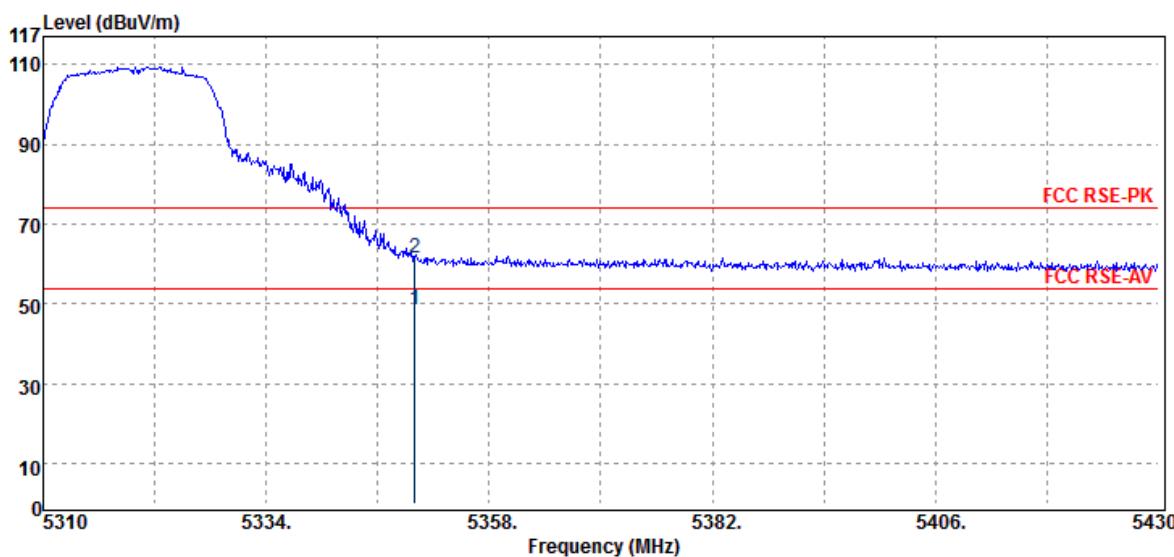
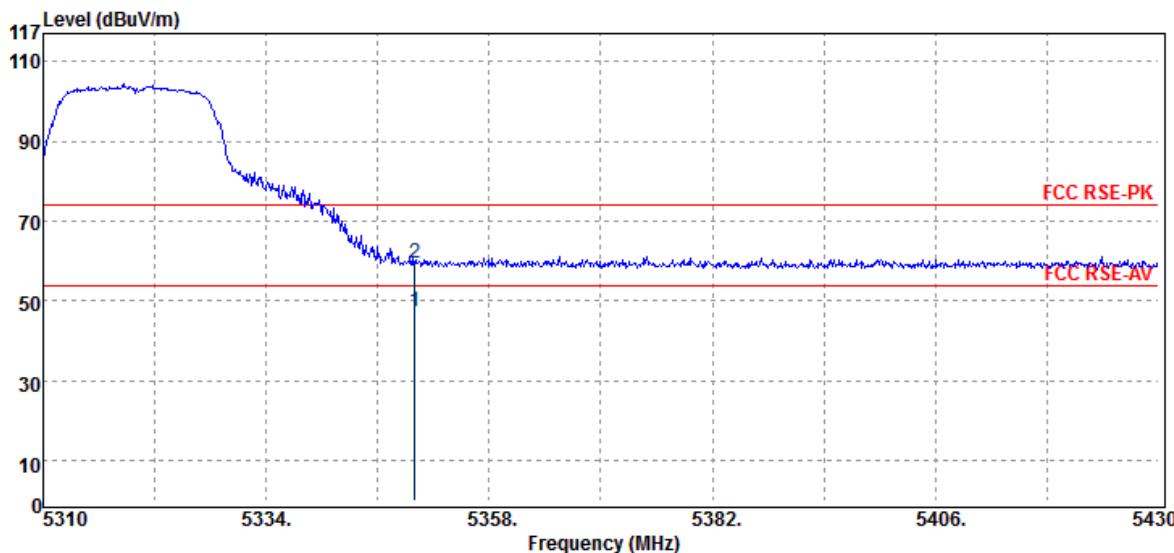
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Operation Band	:802.11 a	Test Date	:2014-11-17
Fundamental Frequency	:5320 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Tin
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.

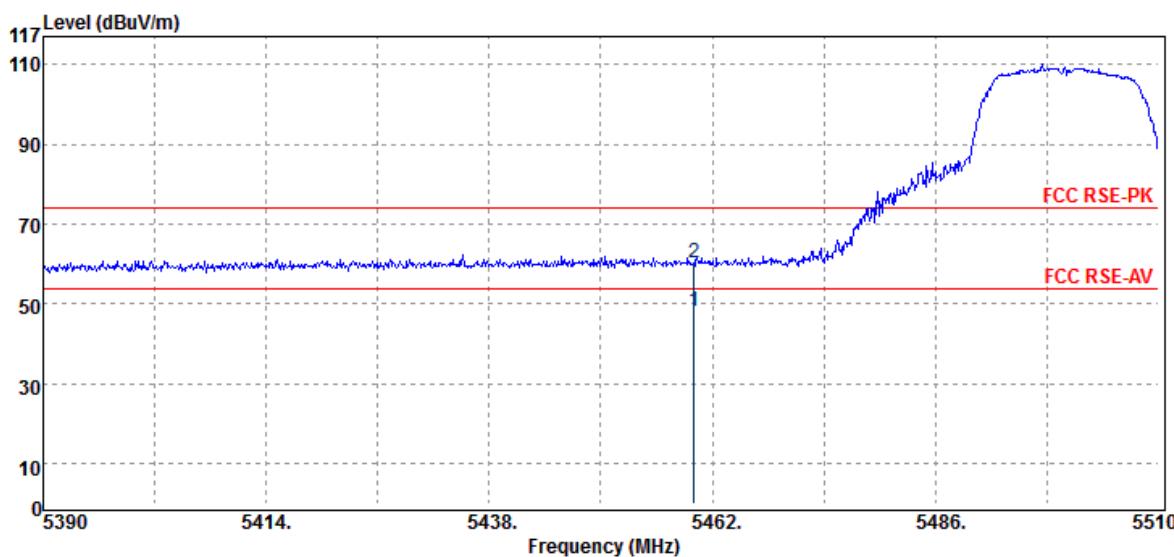
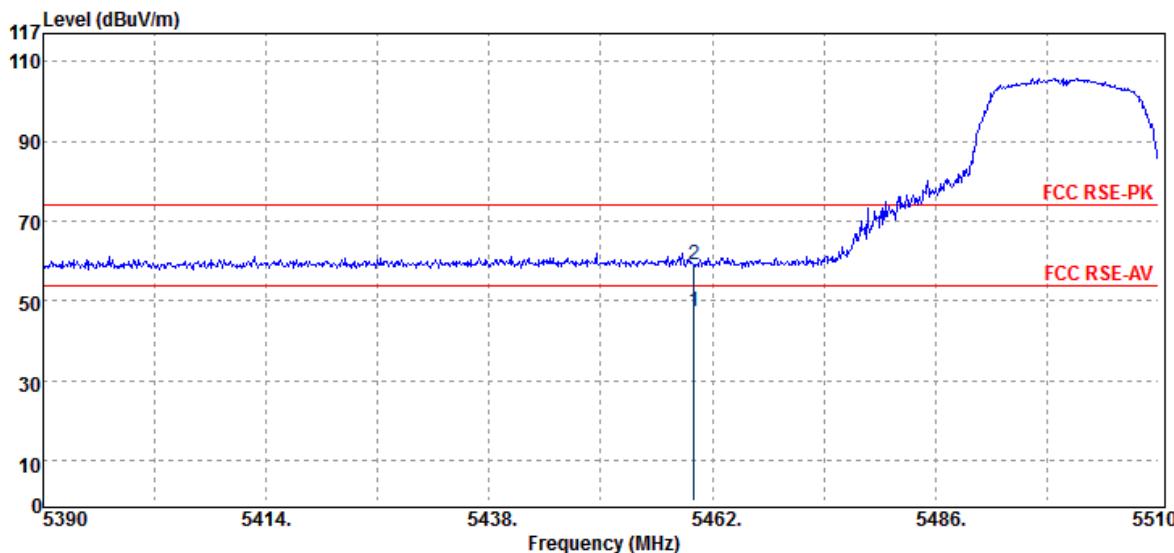


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Operation Band	:802.11 a	Test Date	:2014-11-17
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Wdge LOW	Engineer	:Tin
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	: Ver. / Hor

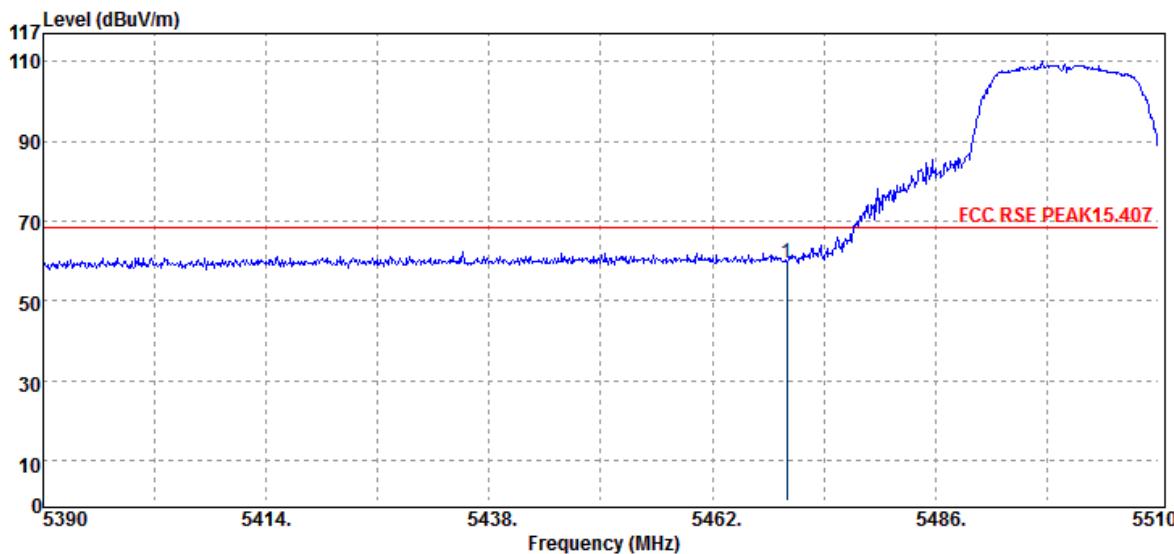
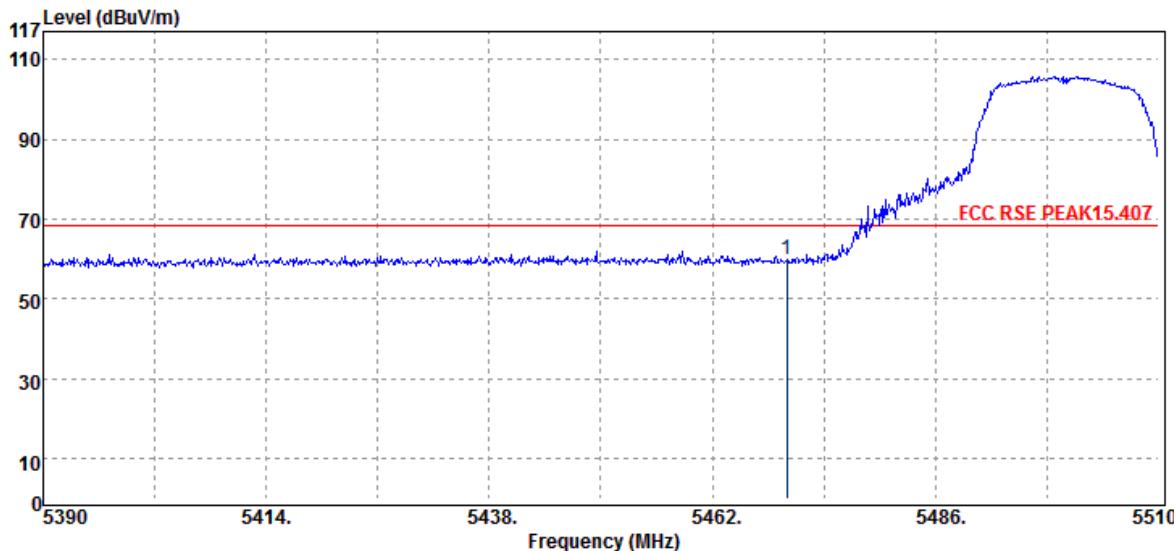


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Operation Band	:802.11 a	Test Date	:2014-11-28
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Wdge LOW	Engineer	:Tin
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	: Ver. / Hor

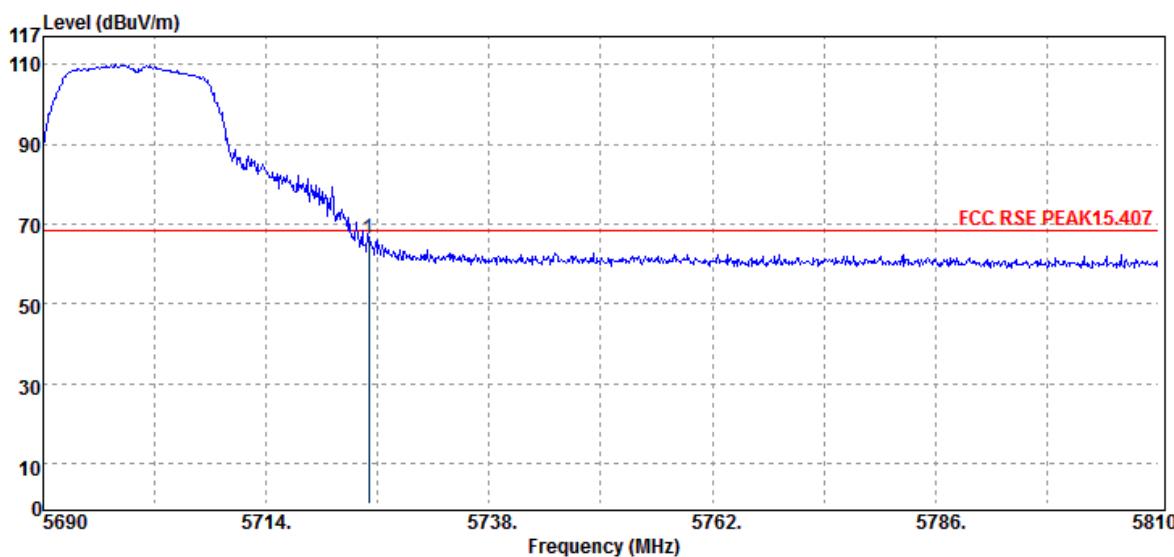
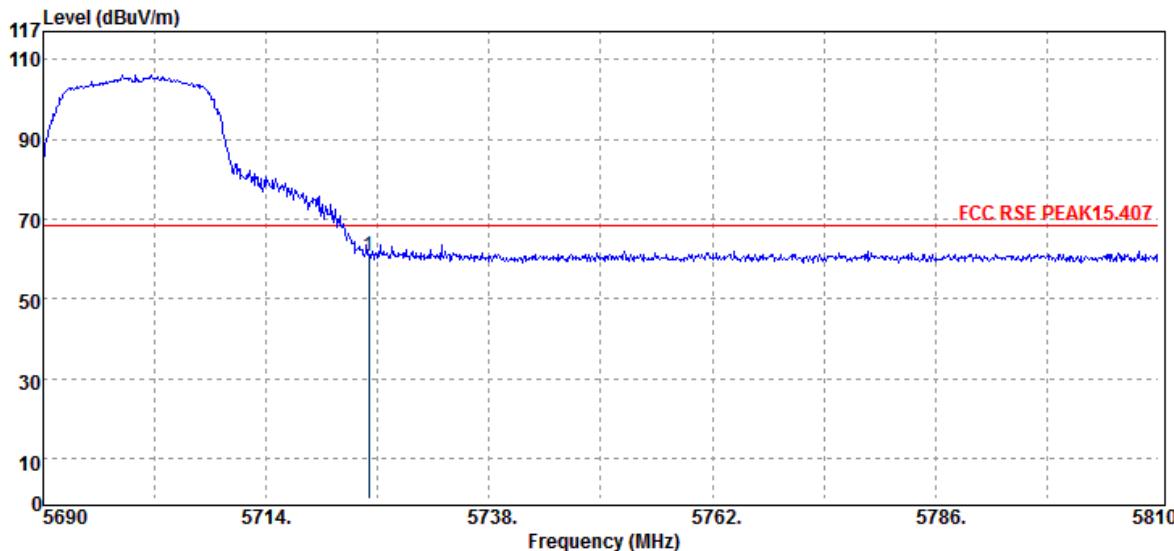


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Operation Band	:802.11 a	Test Date	:2014-11-28
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Wdge HIGH	Engineer	:Tin
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	: Ver. / Hor.



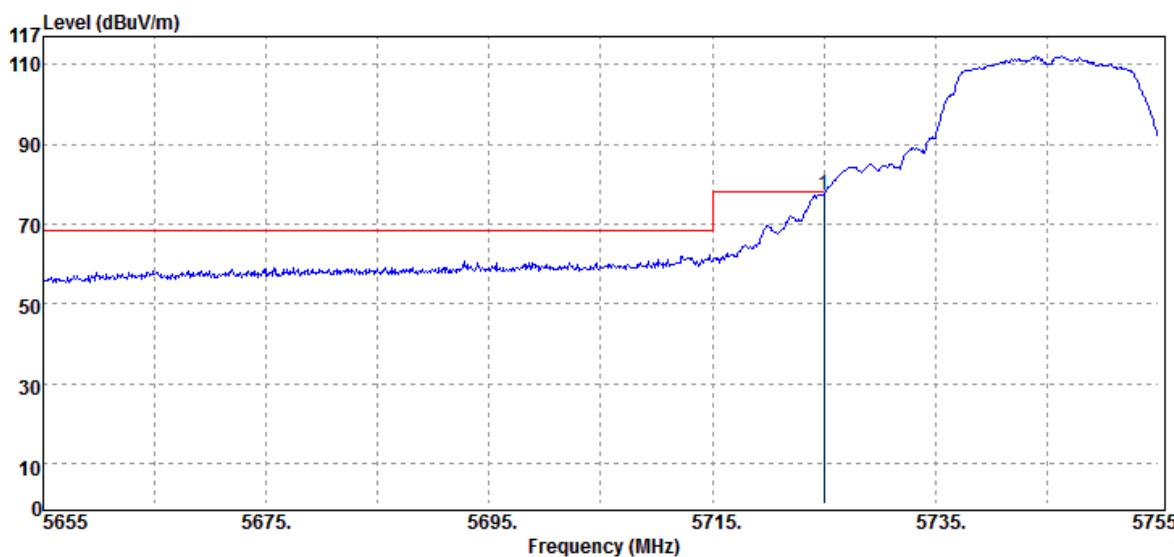
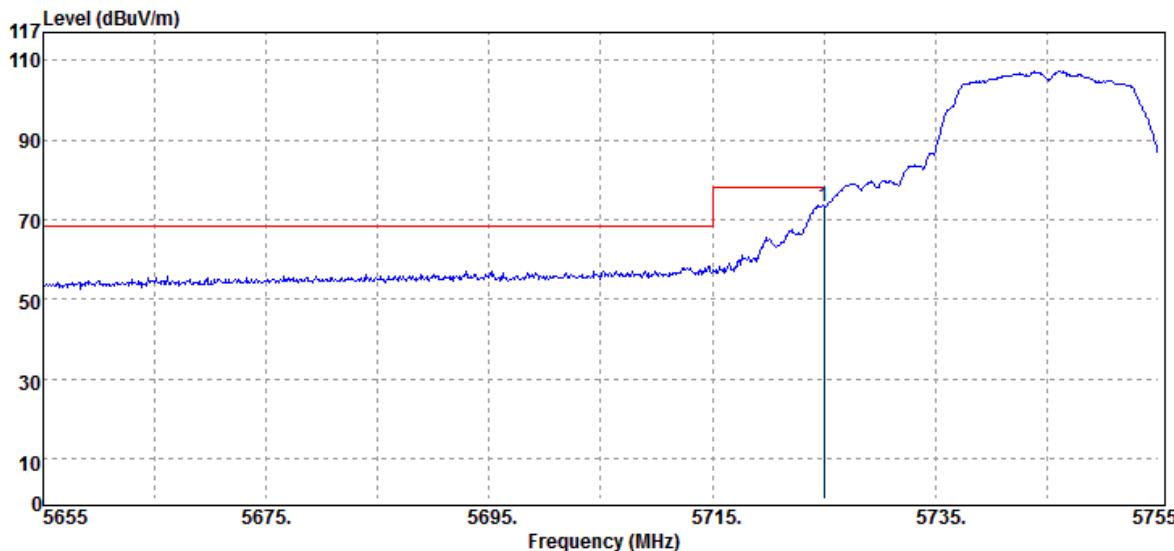
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Operation Band : 802.11 a
Fundamental Frequency : 5745 MHz
Operation Mode : Band Edge LOW
EUT Pol. : E1 Plane

Test Date : 2014-11-17
Temp./Humi. : 23 deg_C / 58 RH
Engineer : Tin
Measurement Antenna Pol. : Ver. / Hor.

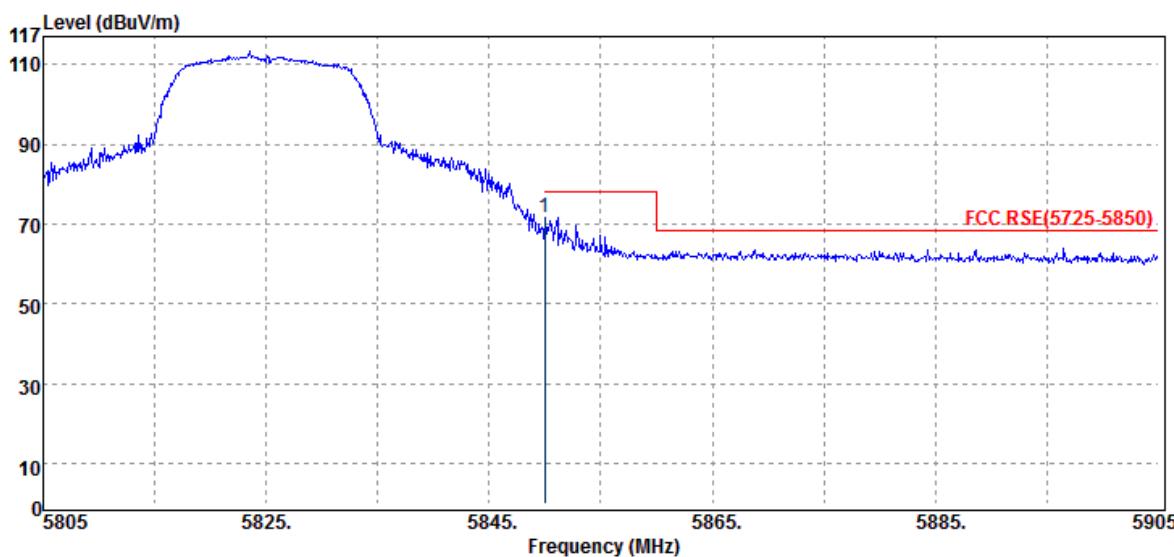
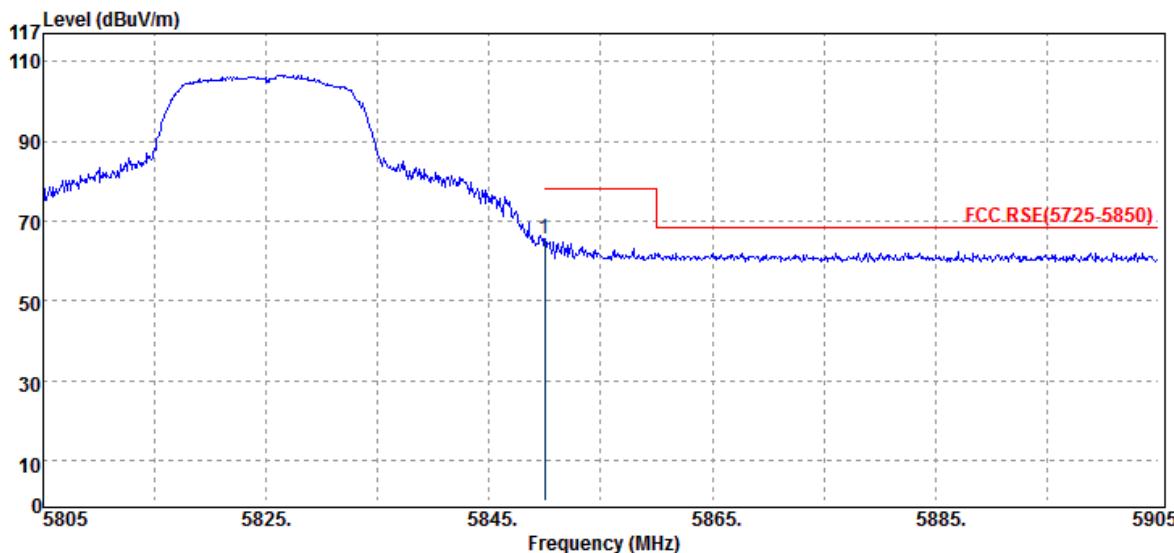


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Operation Band	:802.11 a	Test Date	:2014-11-17
Fundamental Frequency	:5825 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Tin
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	: Ver. / Hor.



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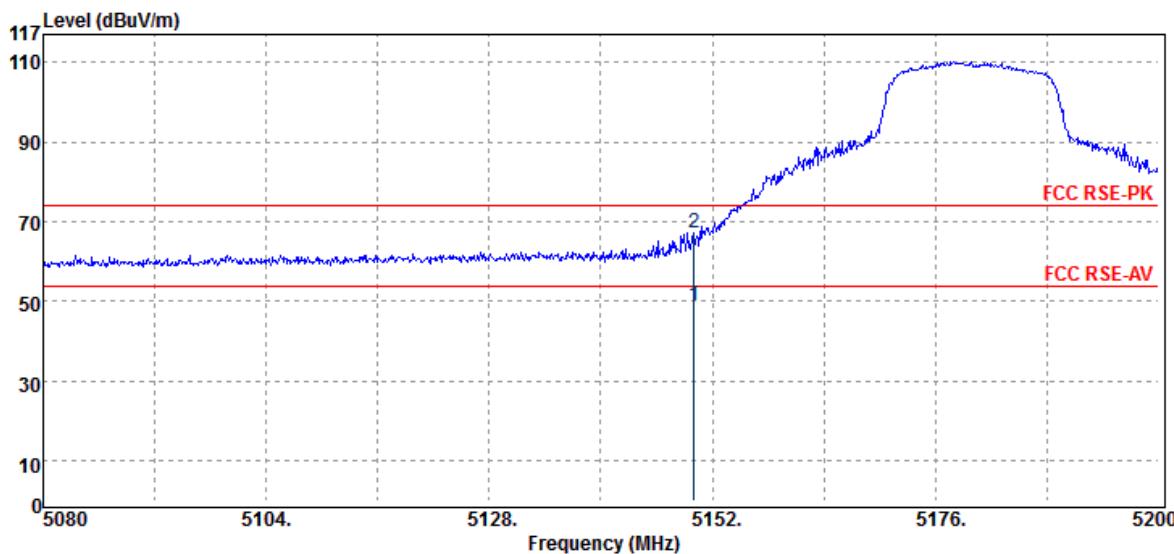
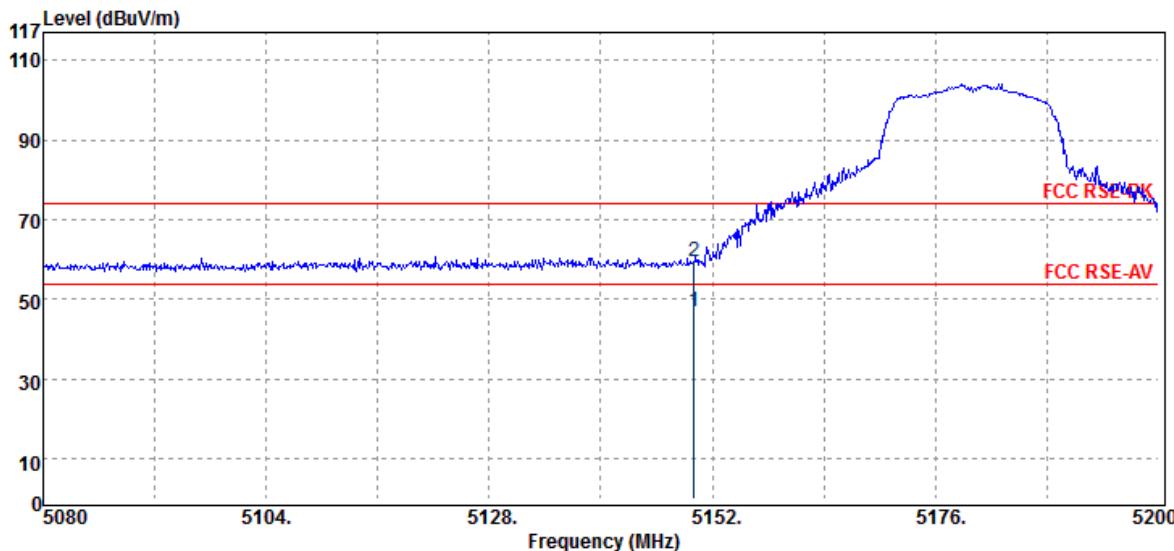
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802.11n_20M

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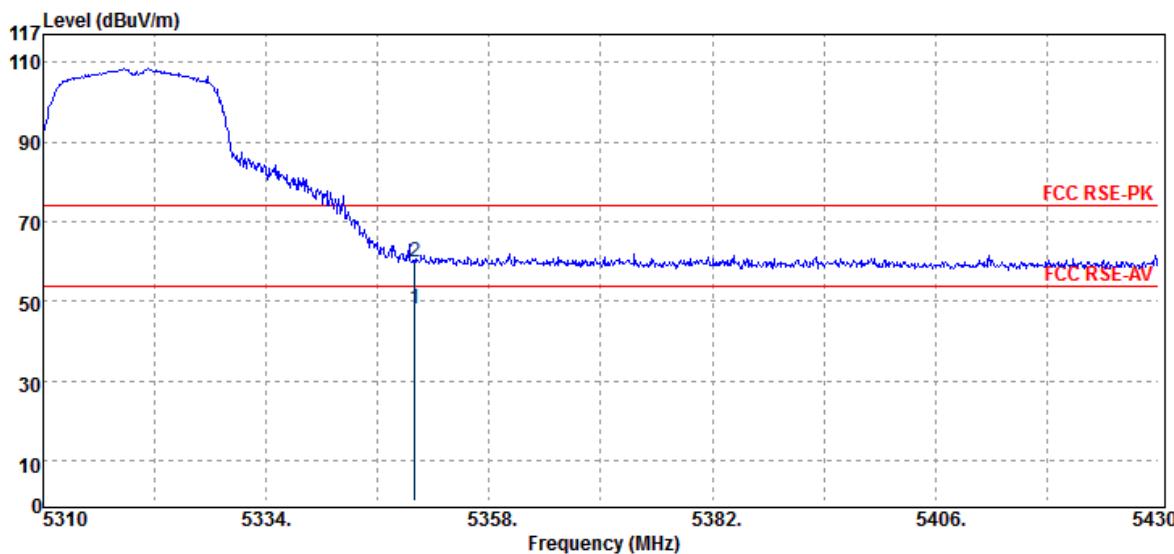
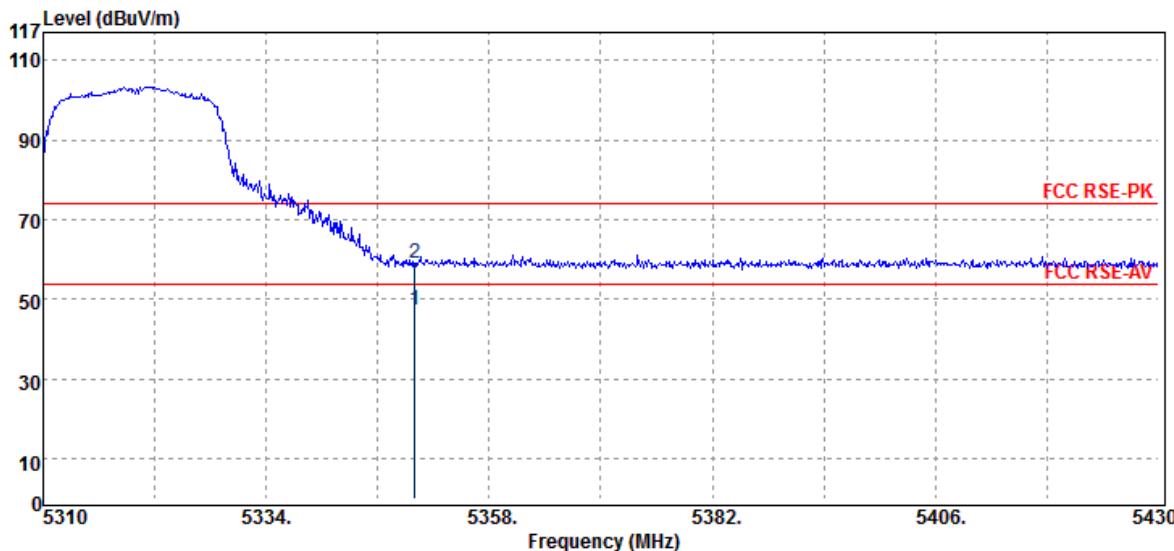
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Operation Band	:802.11 n20M	Test Date	:2014-11-17
Fundamental Frequency	:5320 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Tin
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.

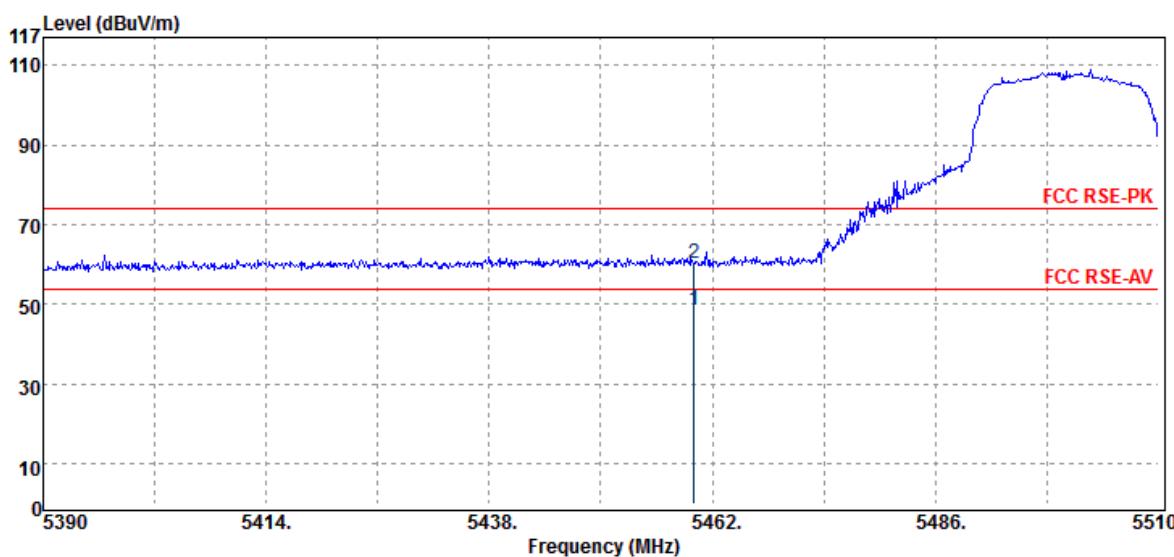
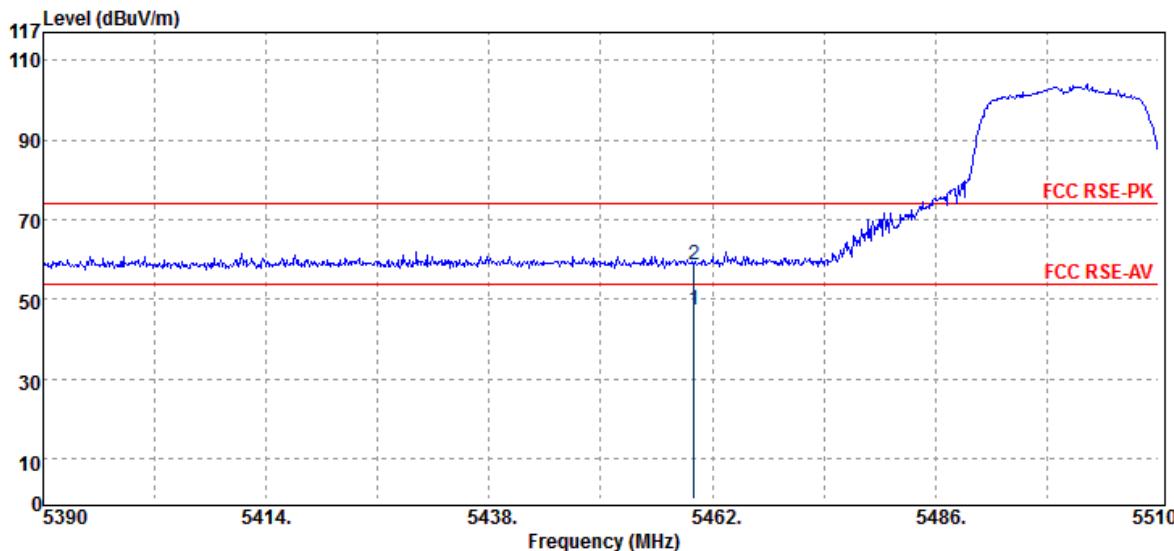


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Operation Band	:802.11 n20M	Test Date	:2014-11-17
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Wdge LOW	Engineer	:Tin
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.

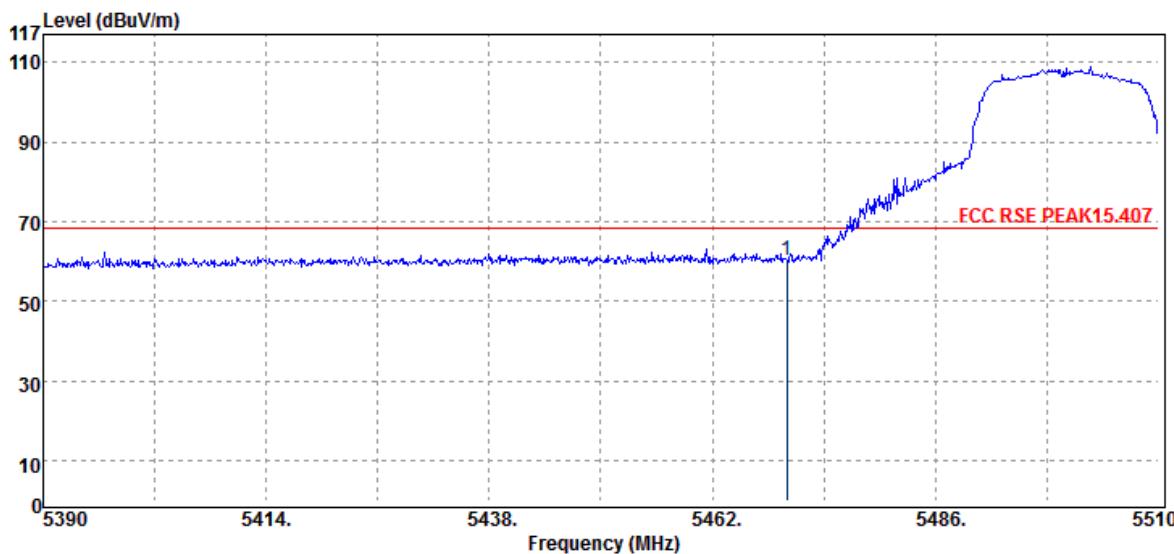
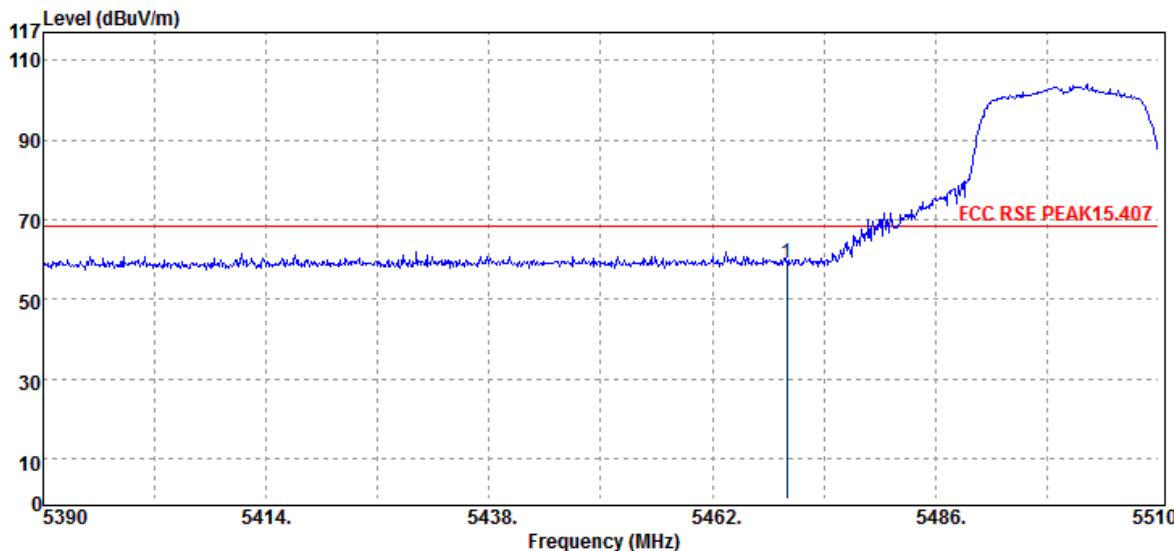


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Operation Band	:802.11 n20M	Test Date	:2014-11-28
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Wdge LOW	Engineer	:Tin
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	: Ver. / Hor.

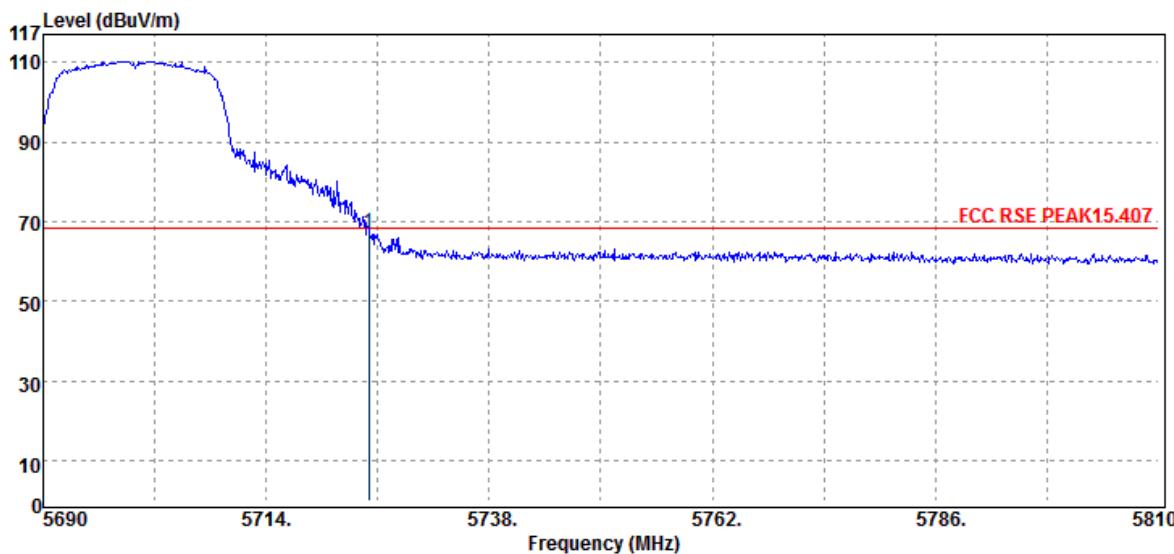
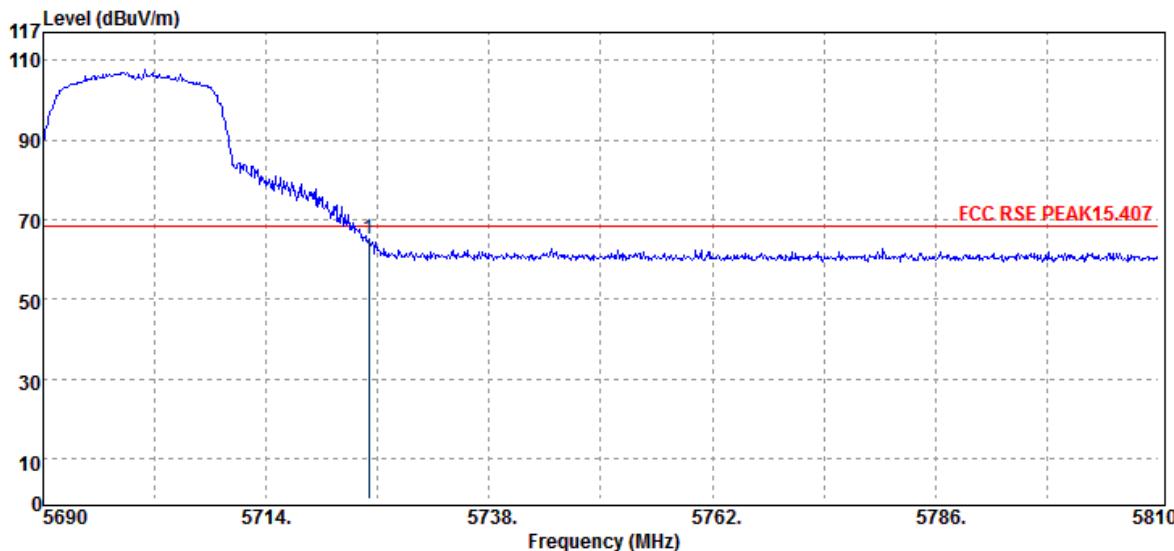


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Operation Band	:802.11 n20M	Test Date	:2014-11-28
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Wdge HIGH	Engineer	:Tin
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	: Ver. / Hor.



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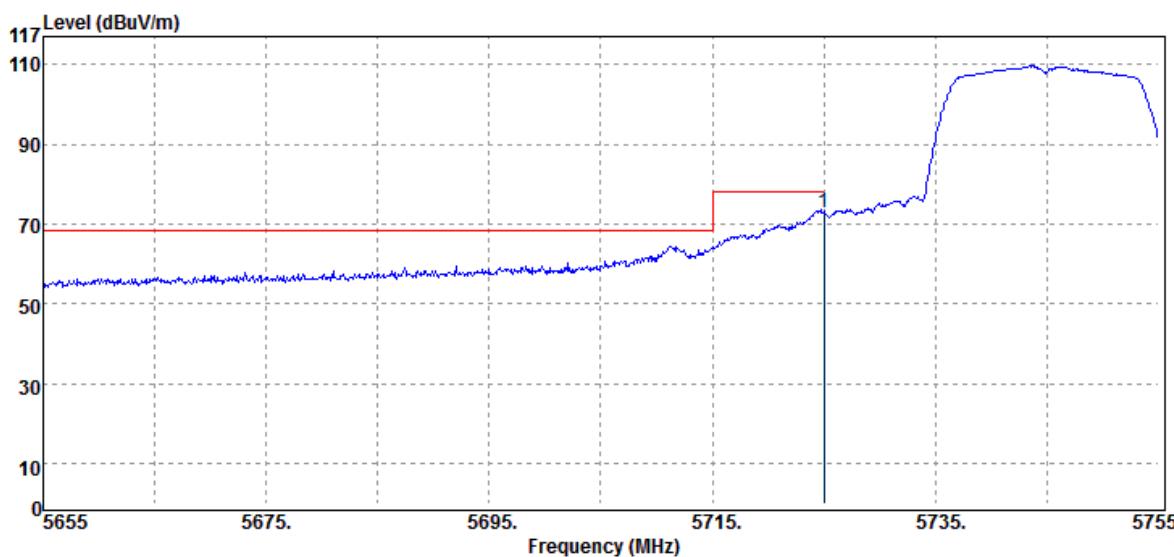
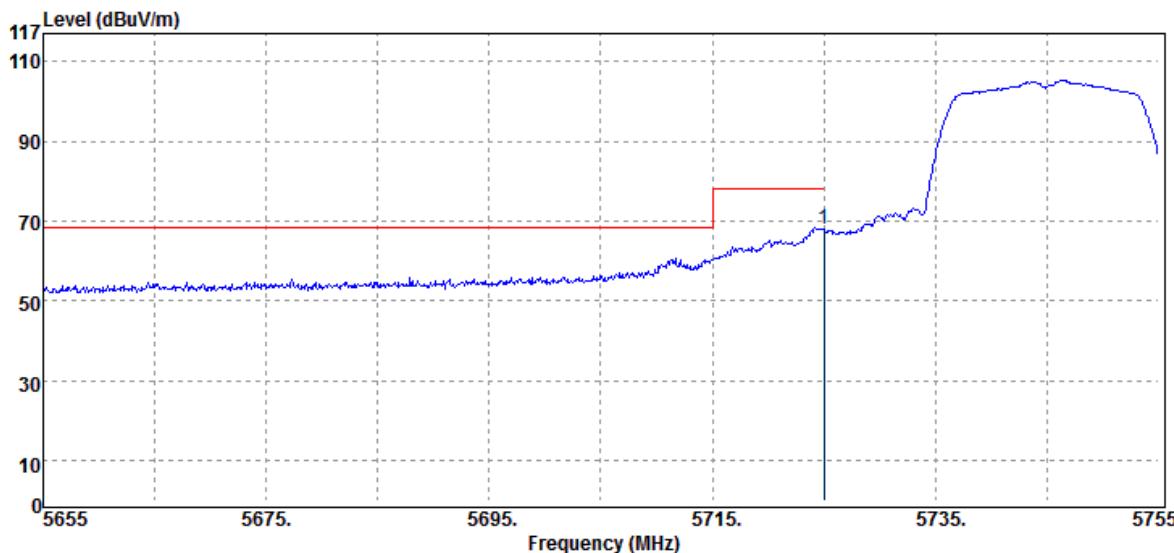
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Operation Band	:802.11 n20M	Test Date	:2014-11-17
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge LOW	Engineer	:Tin
EUT Pol.	: E1 Plane	Measurement Antenna Pol.	: Ver. / Hor.



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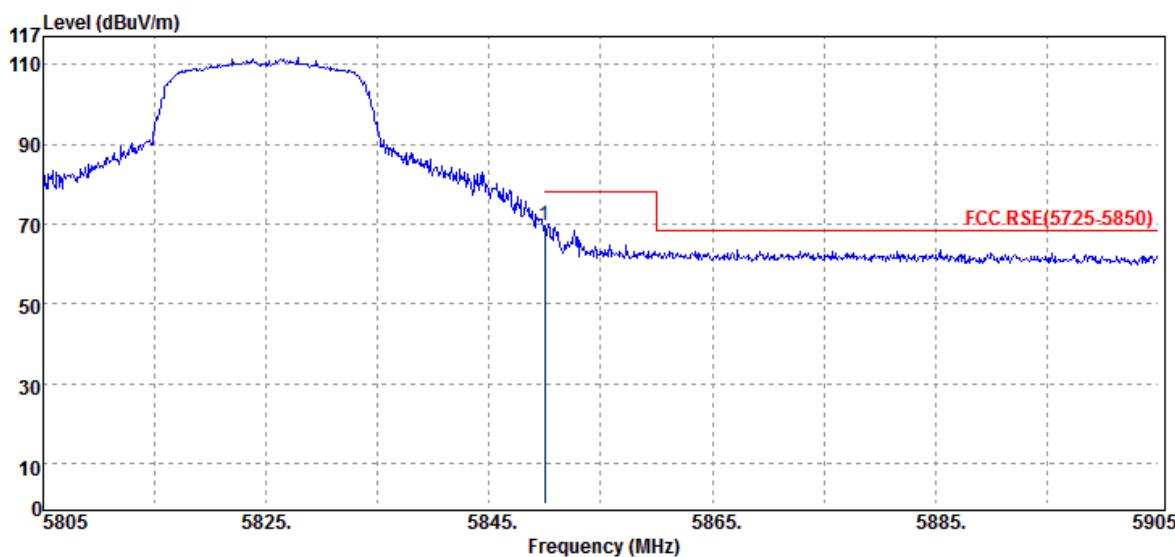
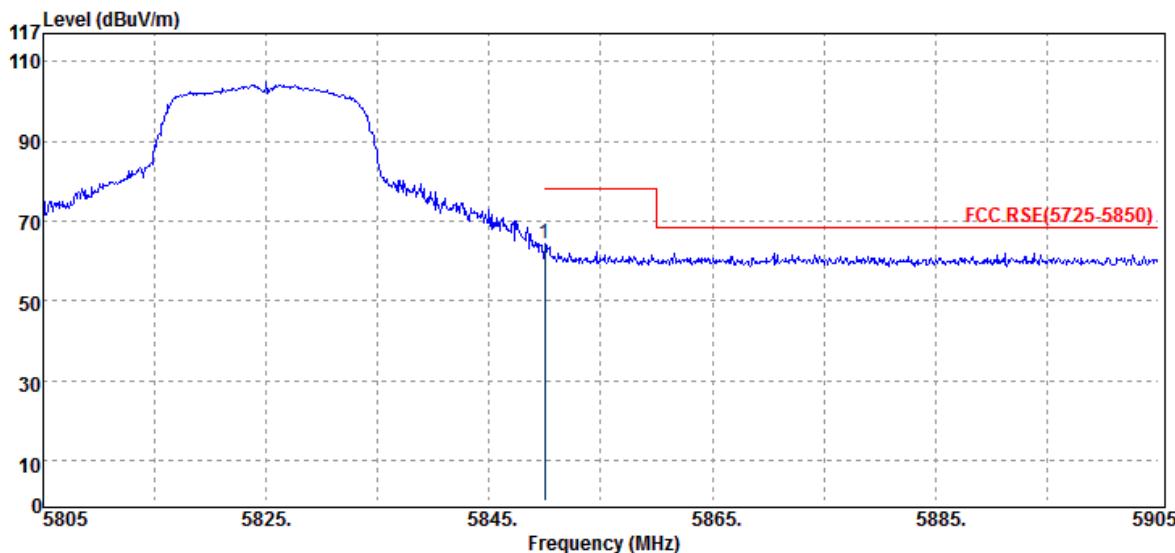
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Operation Band : 802.11 n20M Test Date : 2014-11-17
Fundamental Frequency : 5825 MHz Temp./Humi. : 23 deg_C / 58 RH
Operation Mode : Band Edge HIGH Engineer : Tin
EUT Pol. : E1 Plane Measurement Antenna Pol. : Ver. / Hor.



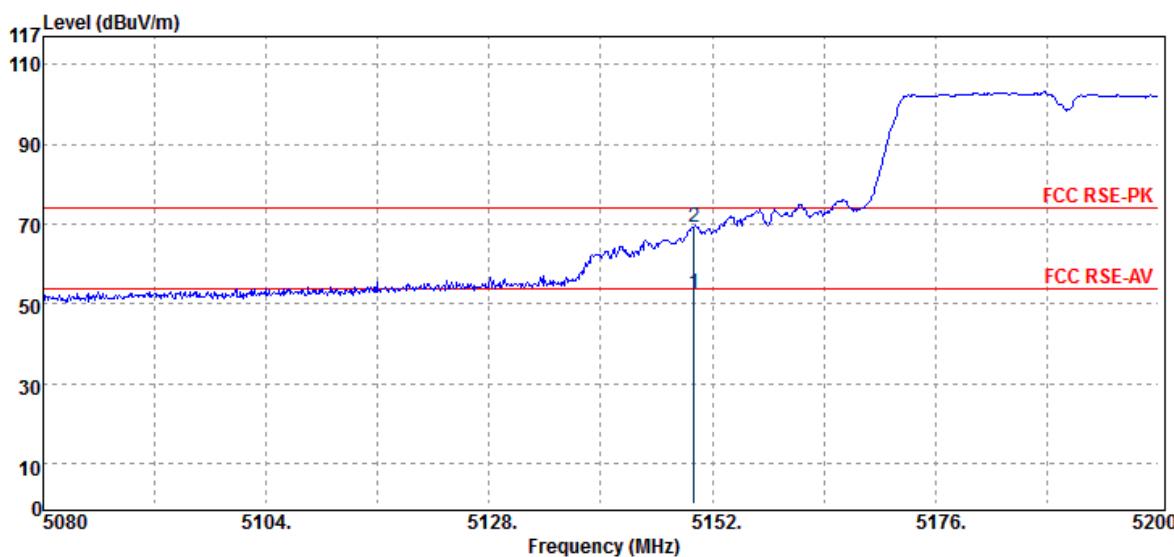
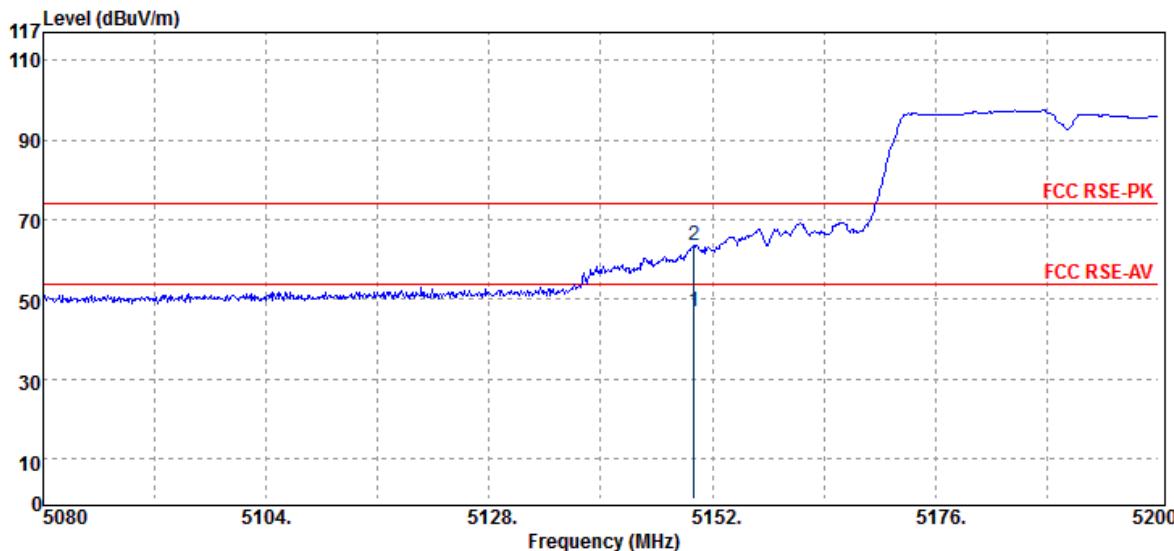
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802.11n_40M

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.	:Ver. / Hor.



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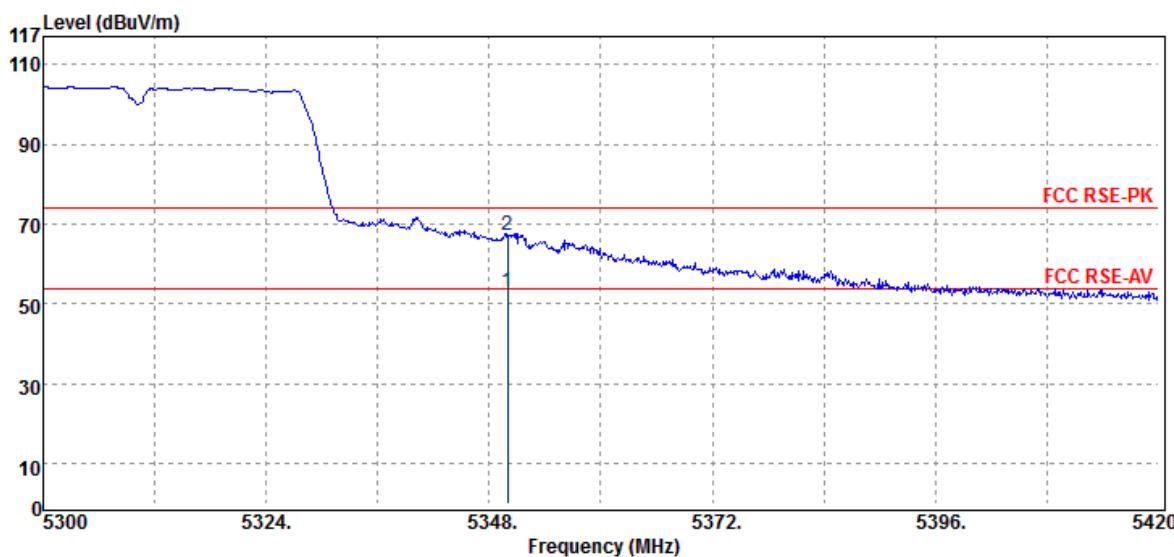
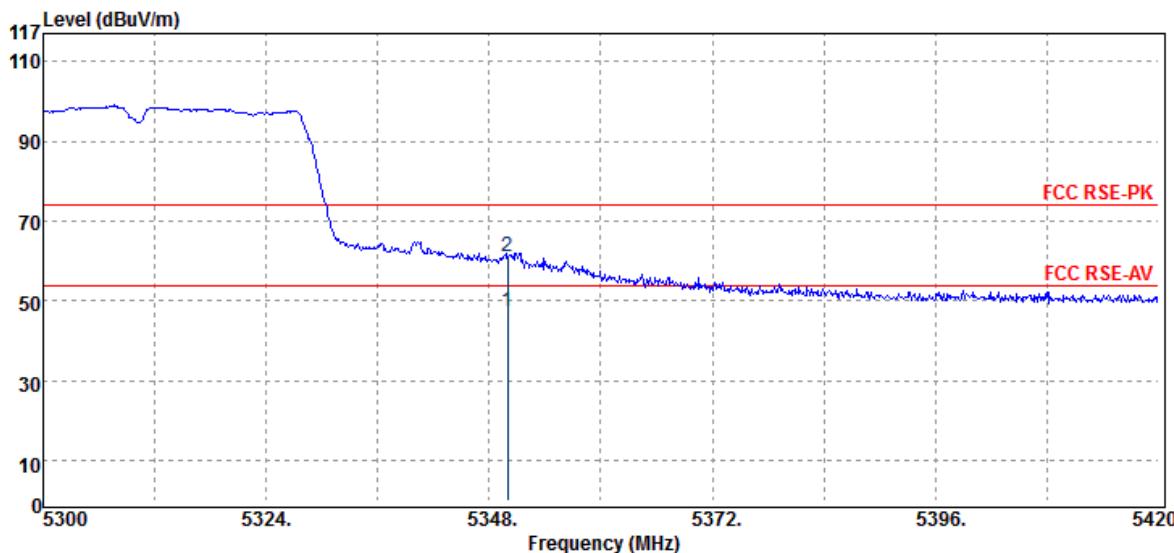
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Operation Band	:802.11 n40M	Test Date	:2014-11-17
Fundamental Frequency	:5310 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Tin
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.



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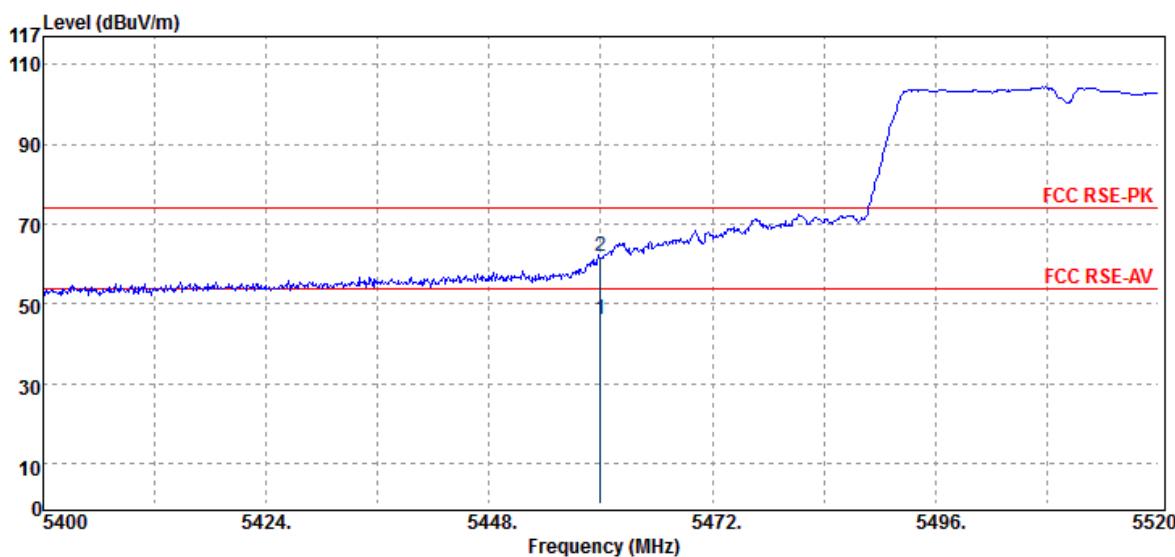
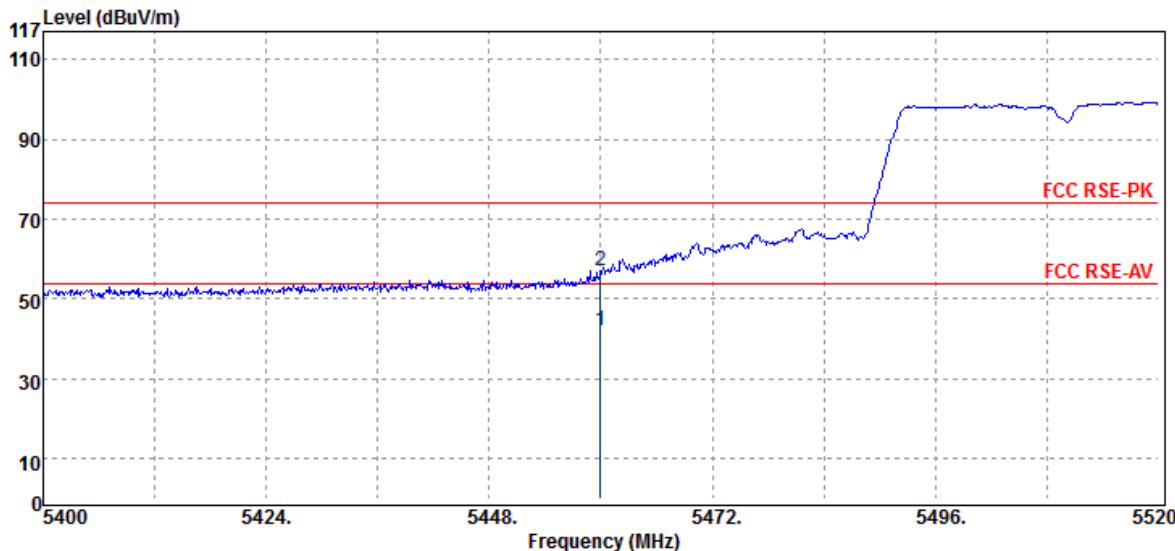
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Operation Band	:802.11 n40M	Test Date	:2014-11-17
Fundamental Frequency	:5510 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge LOW	Engineer	:Tin
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.

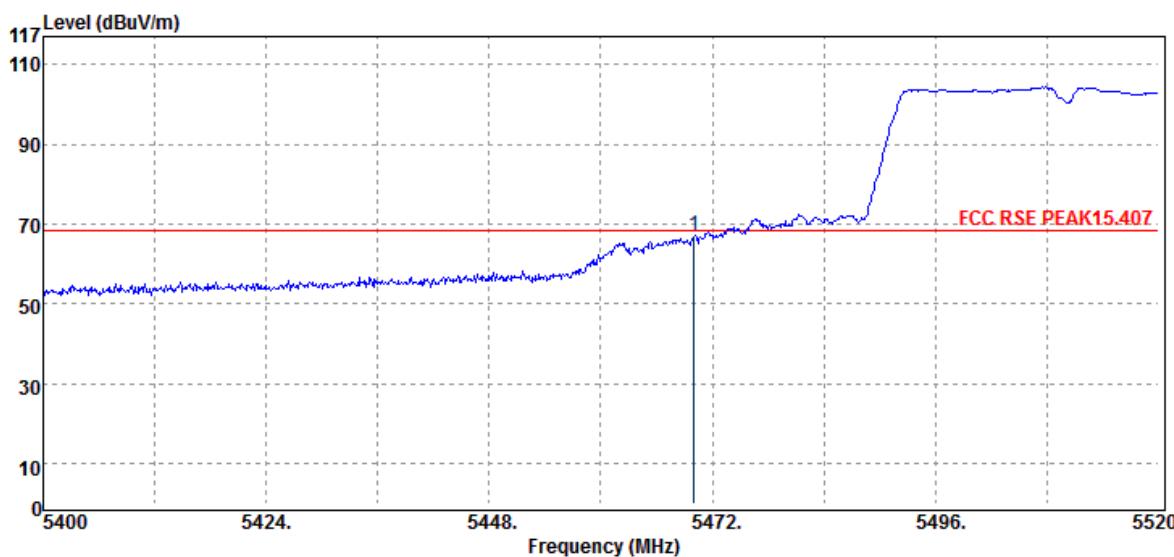
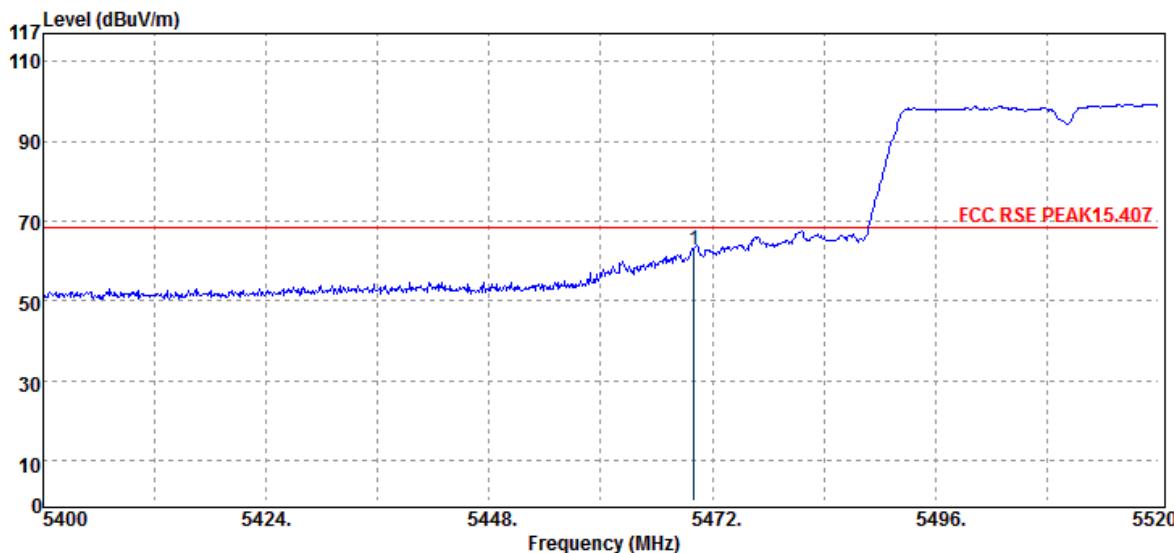


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Operation Band	:802.11 n40M P	Test Date	:2014-11-28
Fundamental Frequency	:5510 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge LOW	Engineer	:Tin
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	: Ver. / Hor.

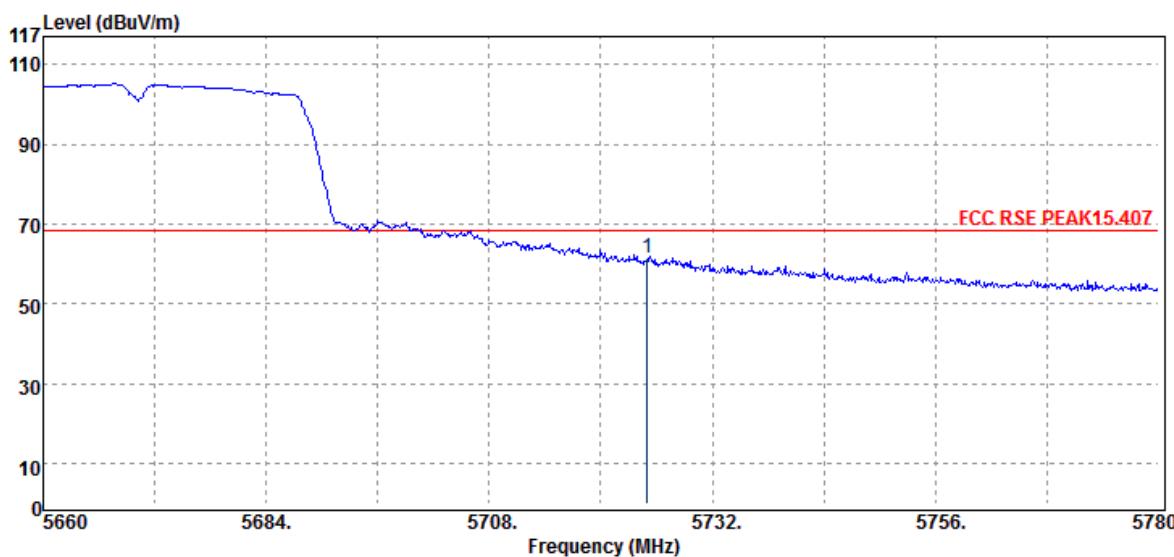
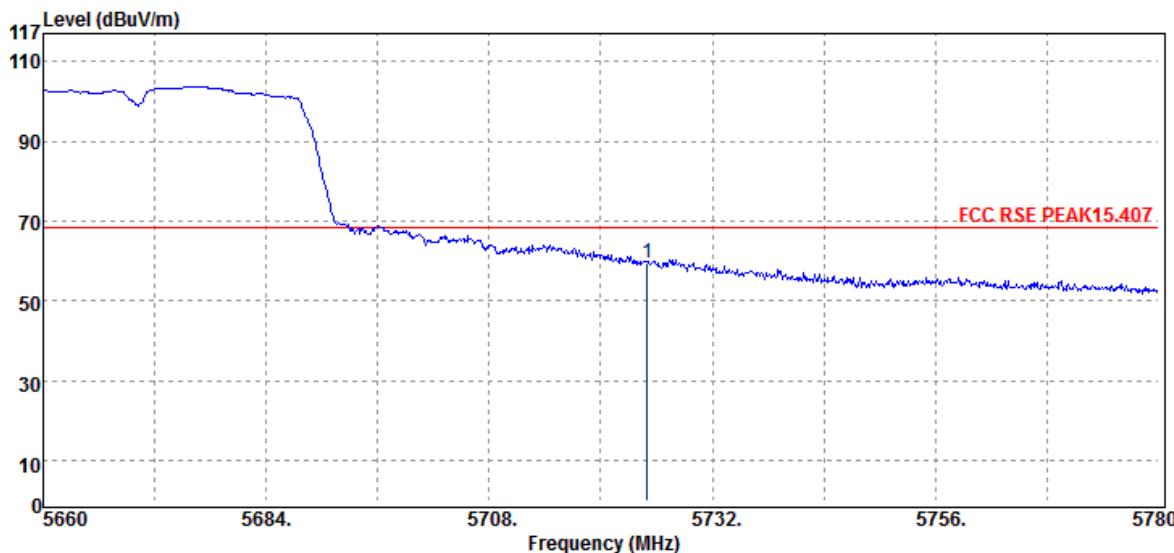


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Operation Band	:802.11 n40M	Test Date	:2014-11-28
Fundamental Frequency	:5670 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Tin
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	: Ver. / Hor.

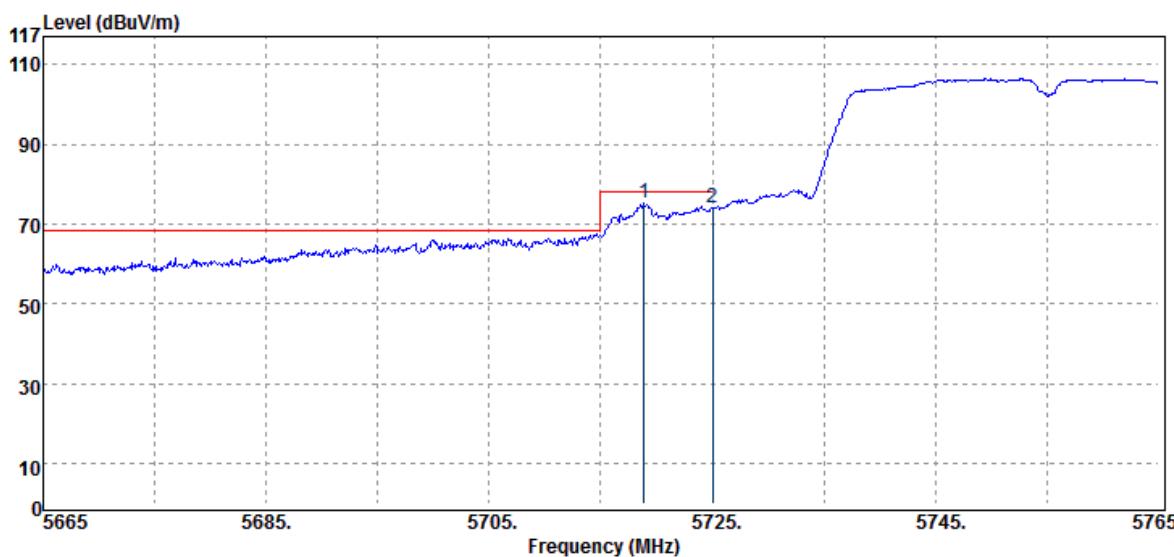
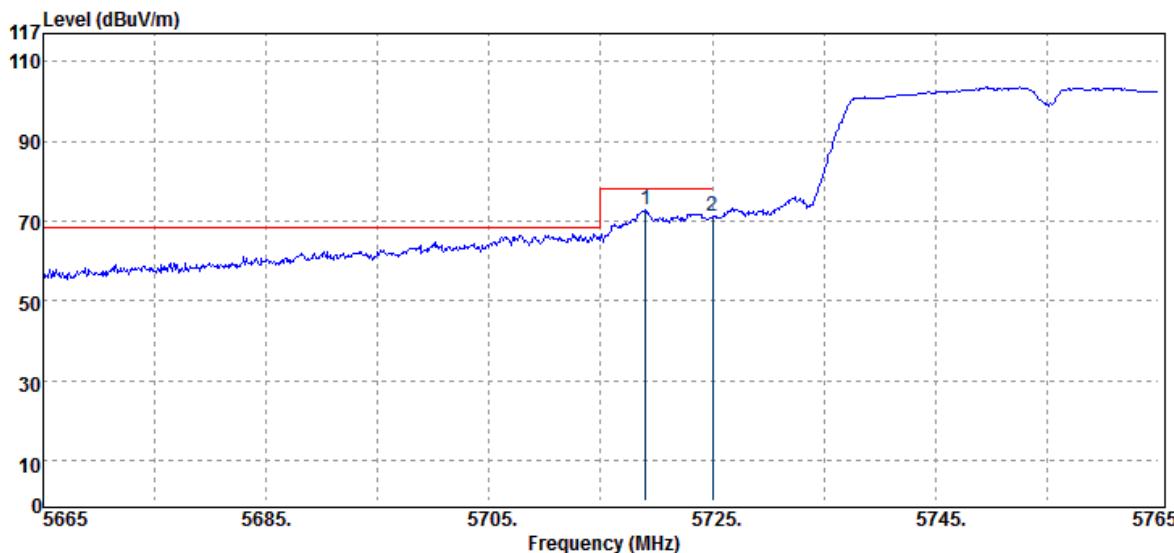


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Operation Band	:802.11 n40M	Test Date	:2014-11-17
Fundamental Frequency	:5755 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge LOW	Engineer	:Tin
EUT Pol.	: E1 Plane	Measurement Antenna Pol.	: Ver. / Hor.

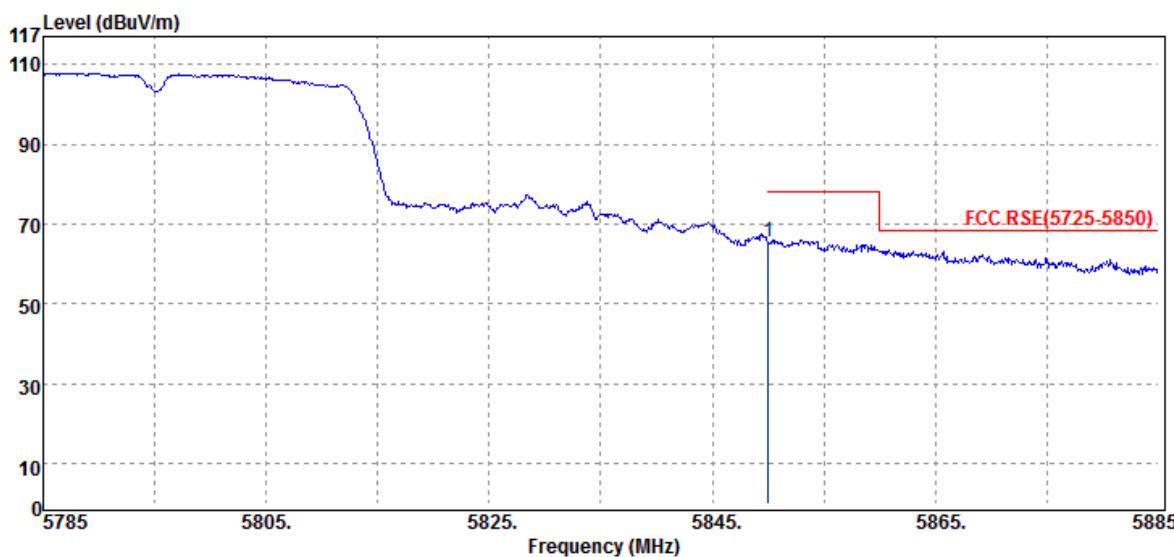
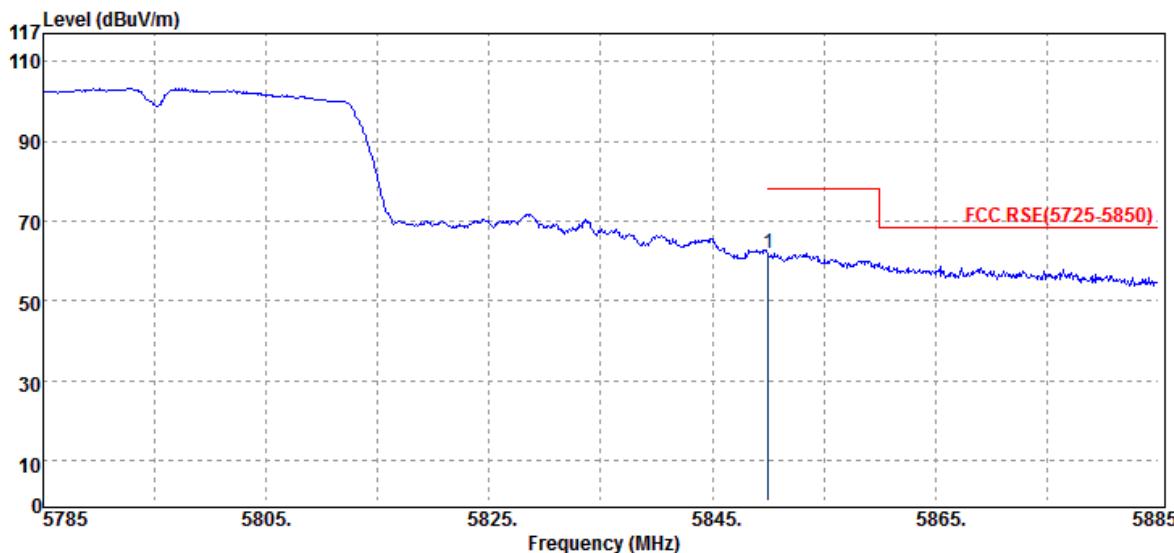


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Operation Band : 802.11 n40M Test Date : 2014-11-17
Fundamental Frequency : 5795 MHz Temp./Humi. : 23 deg_C / 58 RH
Operation Mode : Band Edge HIGH Engineer : Tin
EUT Pol. : E1 Plane Measurement Antenna Pol. : Ver. / Hor.



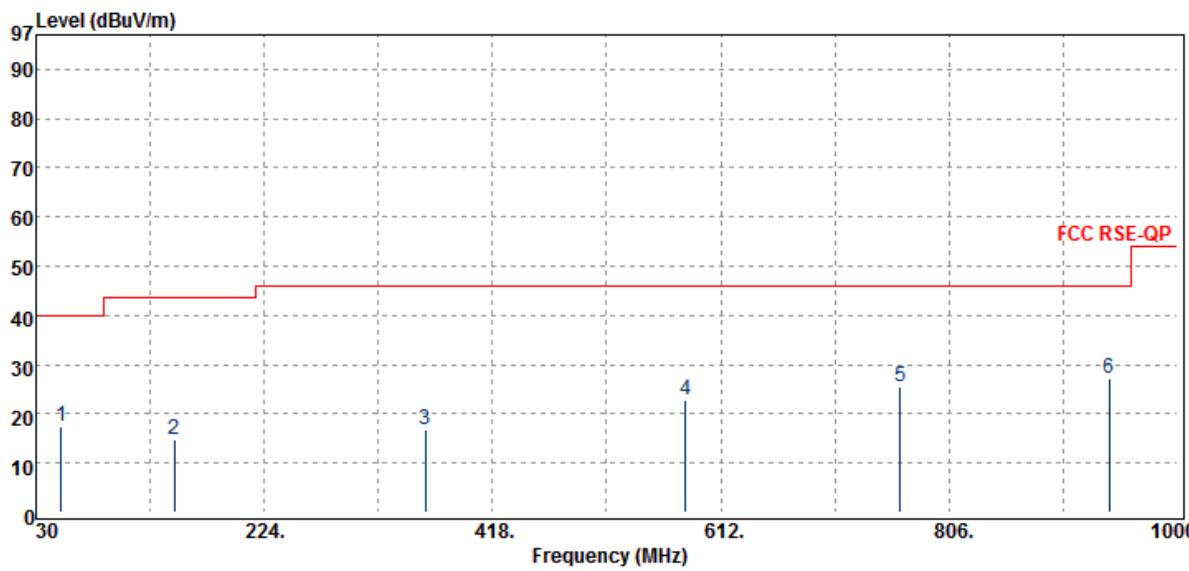
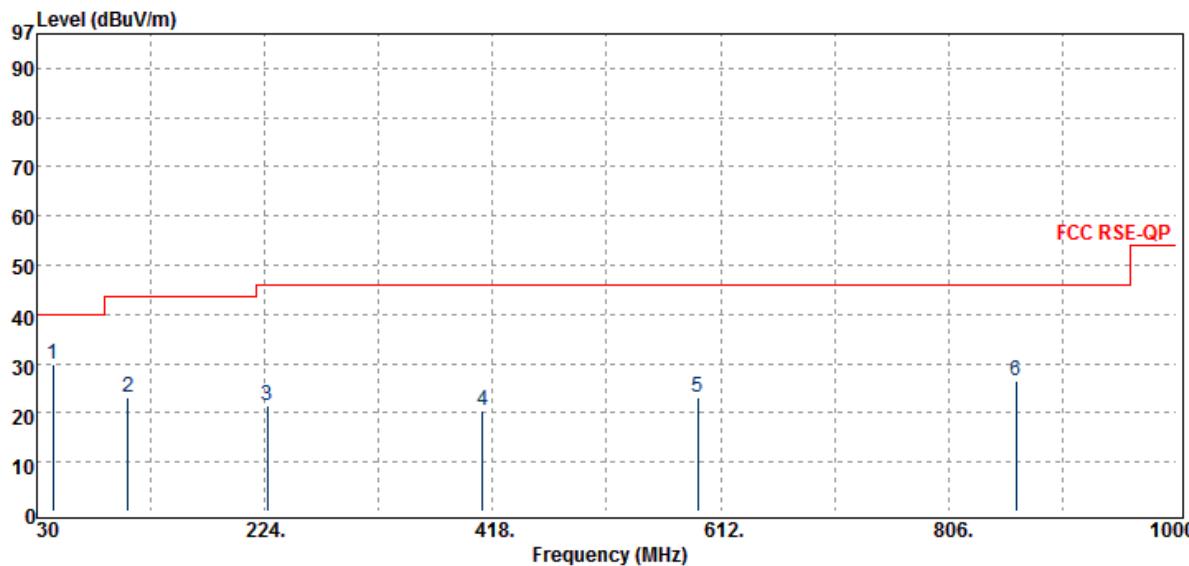
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Radiated Spurious Emission Measurement photos Result (below 1GHz)**802.11a 5150-5250MHz**

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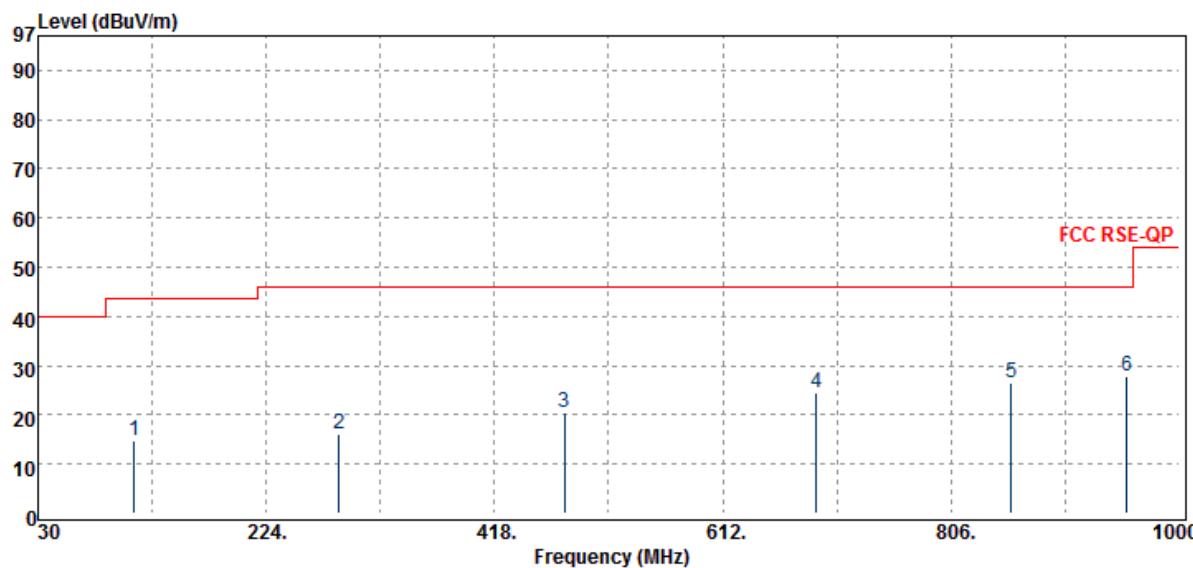
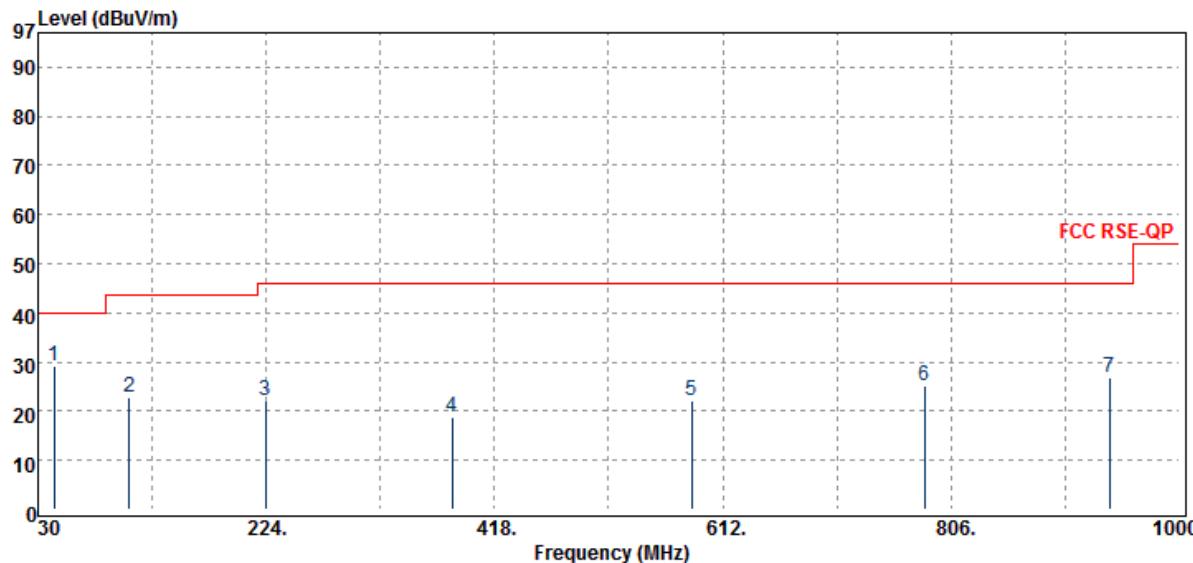
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Operation Band	:802.11 a	Test Date	:2014-11-18
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.



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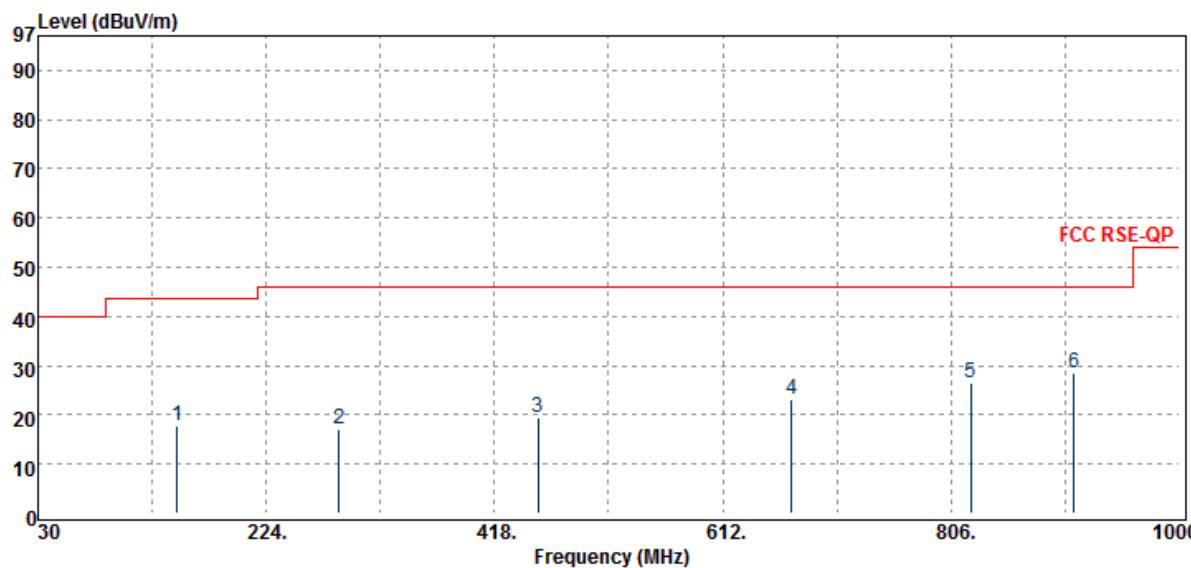
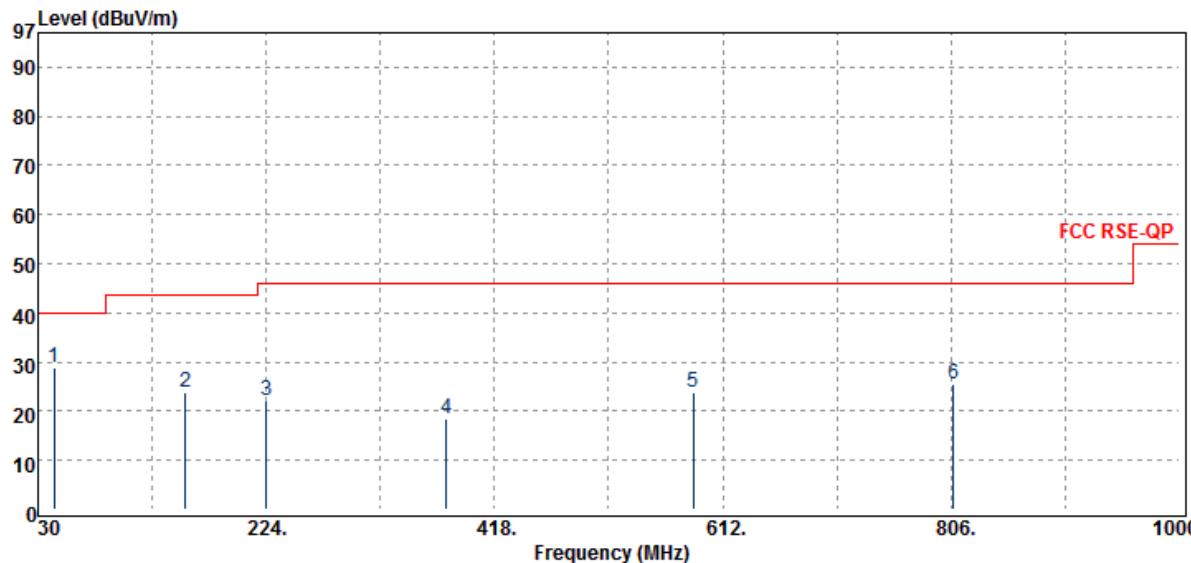
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Operation Band	:802.11 a	Test Date	:2014-11-18
Fundamental Frequency	:5240 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.



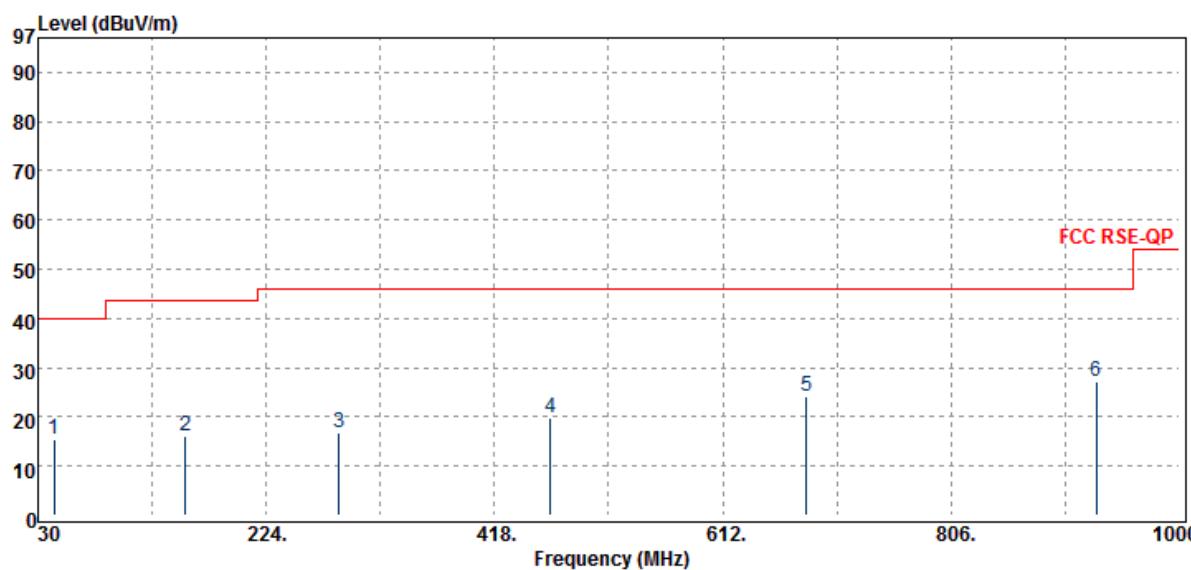
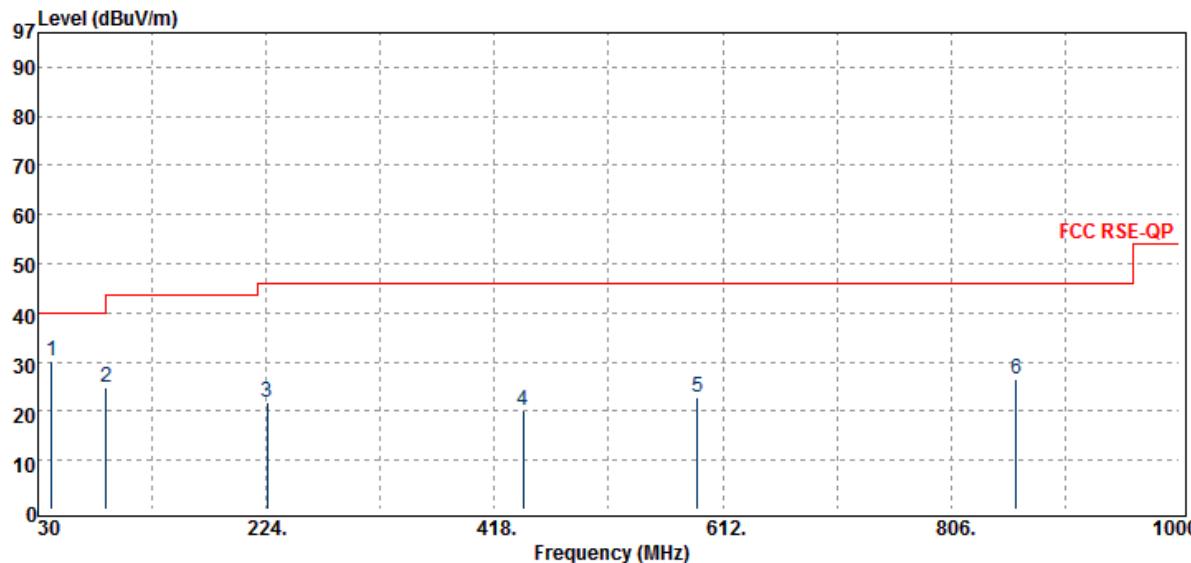
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802.11a 5250-5350MHz

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.	:Ver. / Hor.

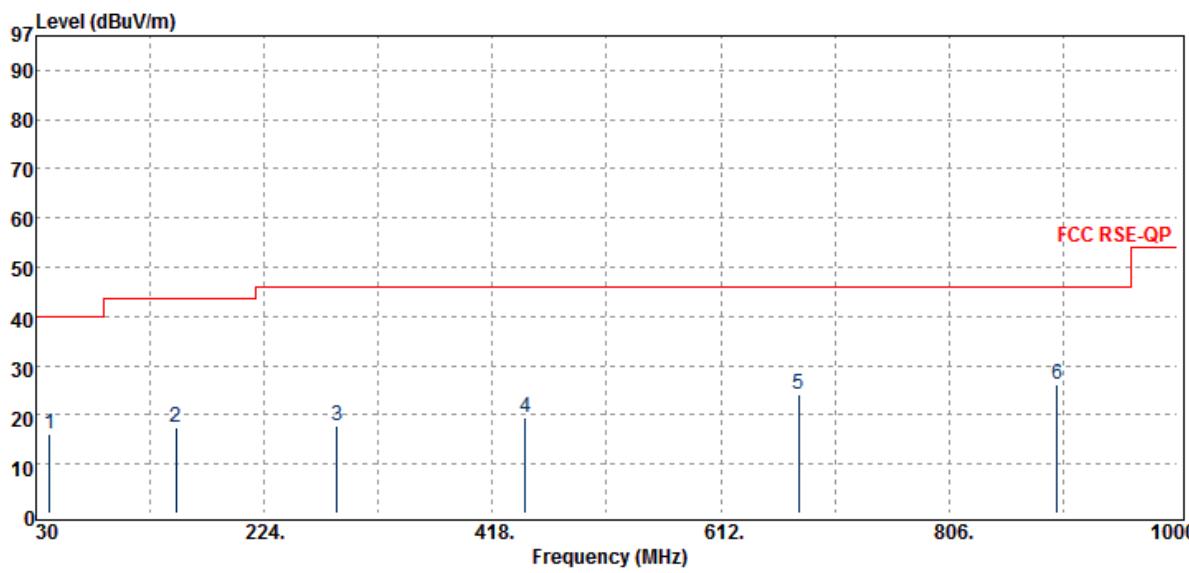
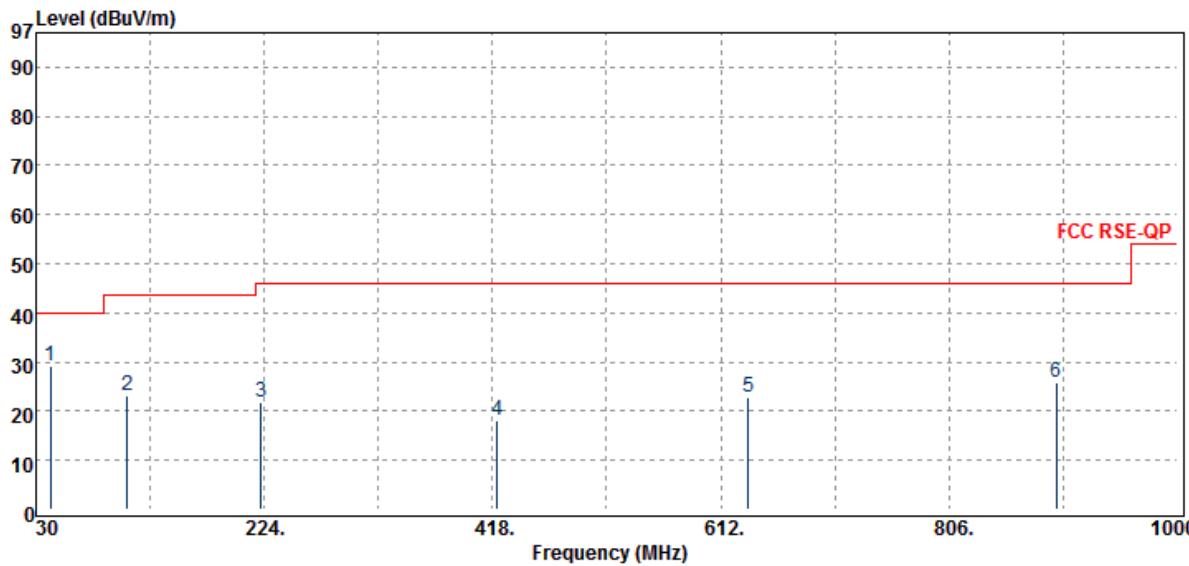


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Operation Band	:802.11 a	Test Date	:2014-11-18
Fundamental Frequency	:5300 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.

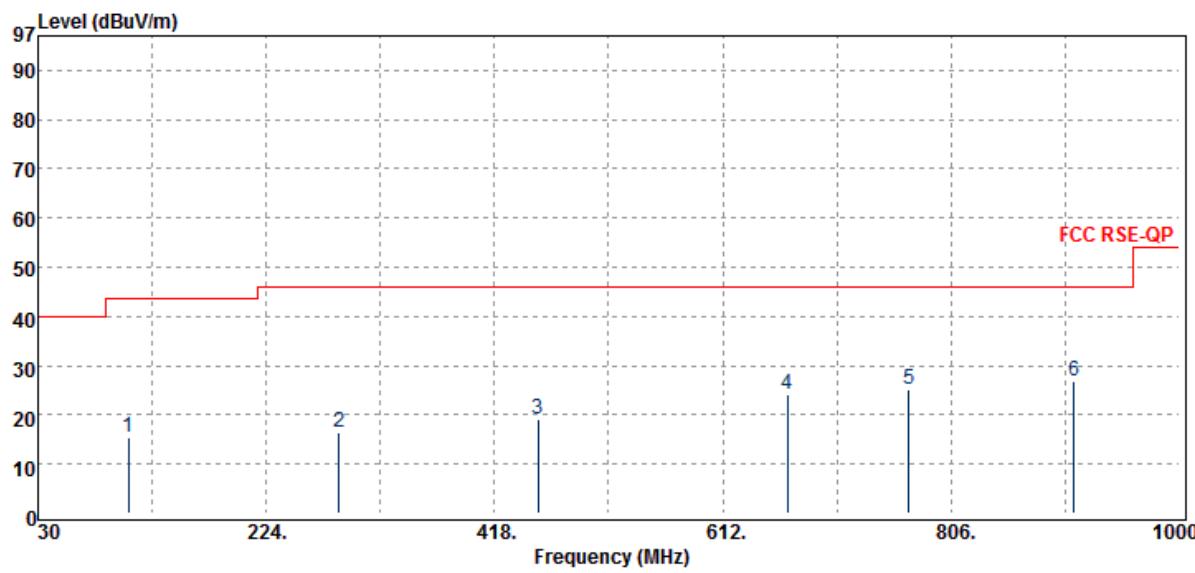
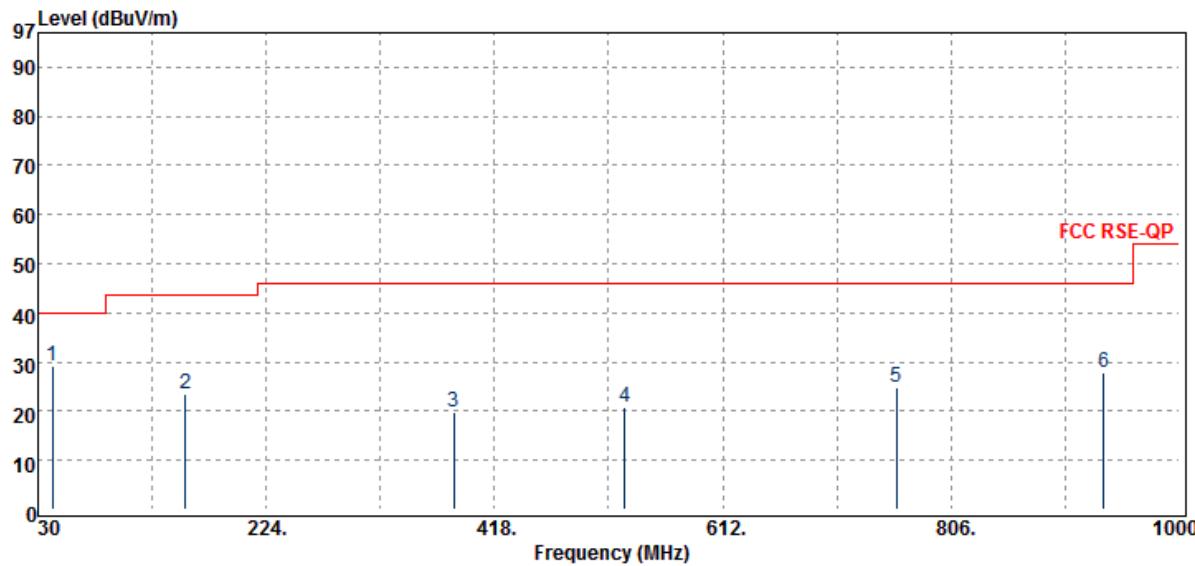


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Operation Band	:802.11 a	Test Date	:2014-11-18
Fundamental Frequency	:5320 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.



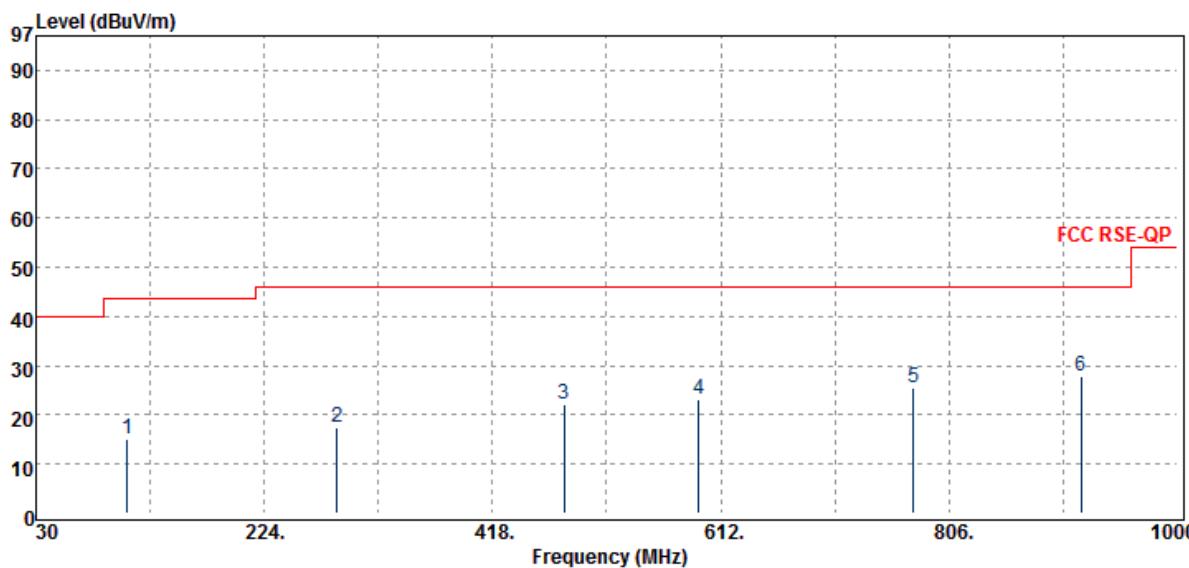
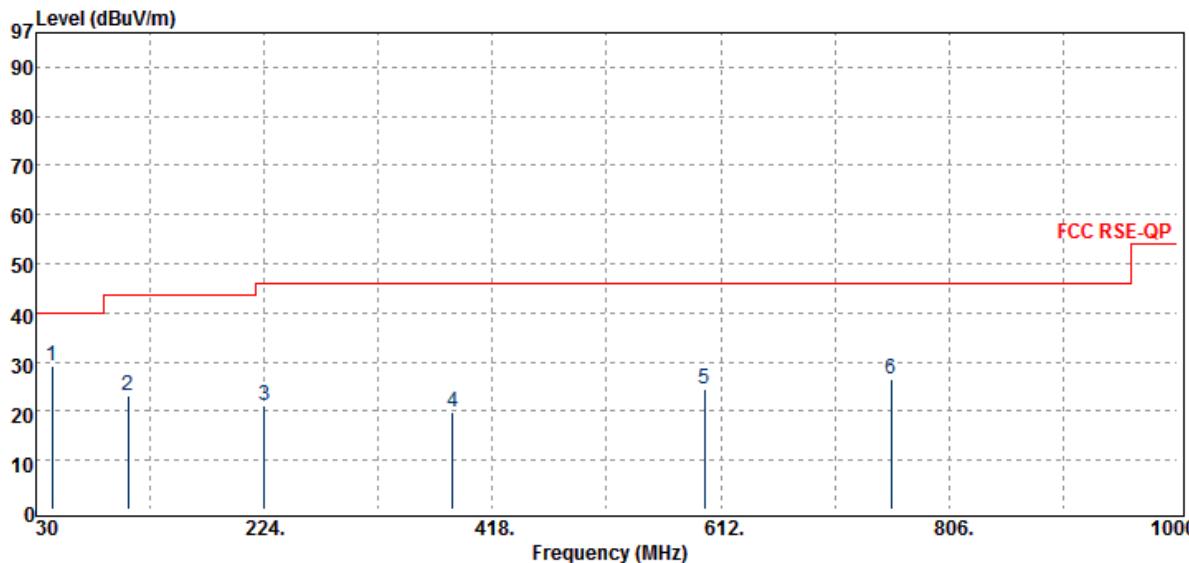
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802.11a 5470-5725MHz

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.	:Ver. / Hor.

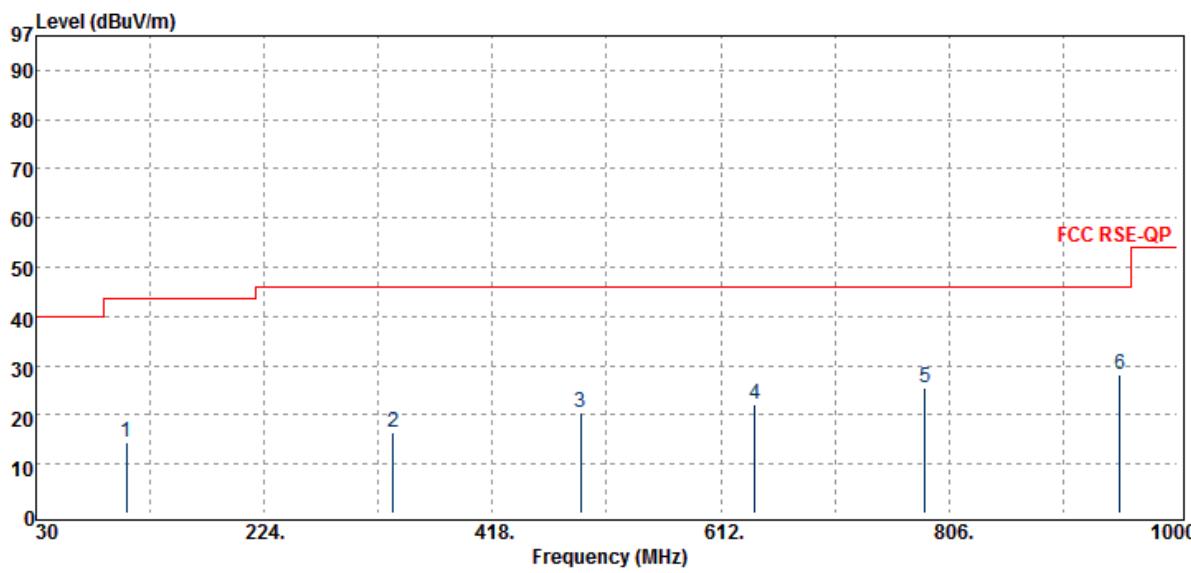
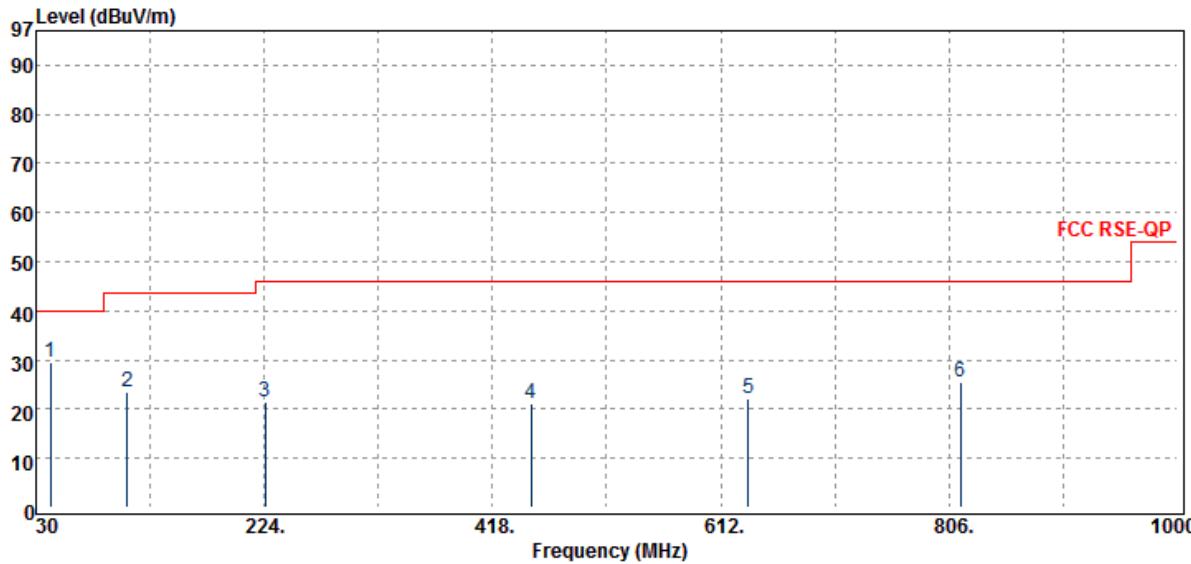


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Operation Band	:802.11 a	Test Date	:2014-11-18
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.



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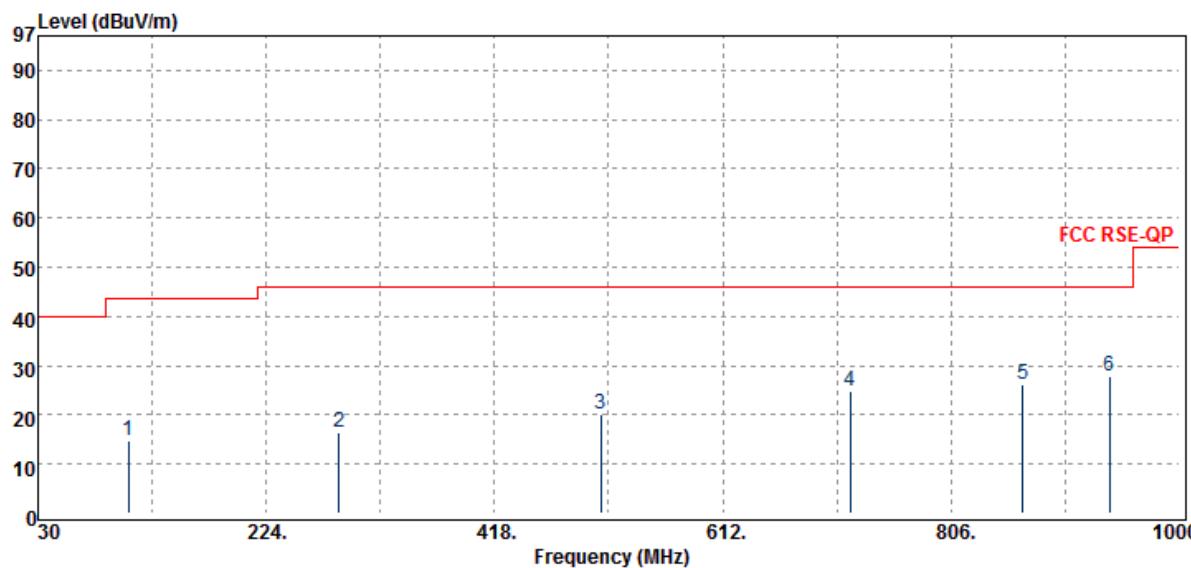
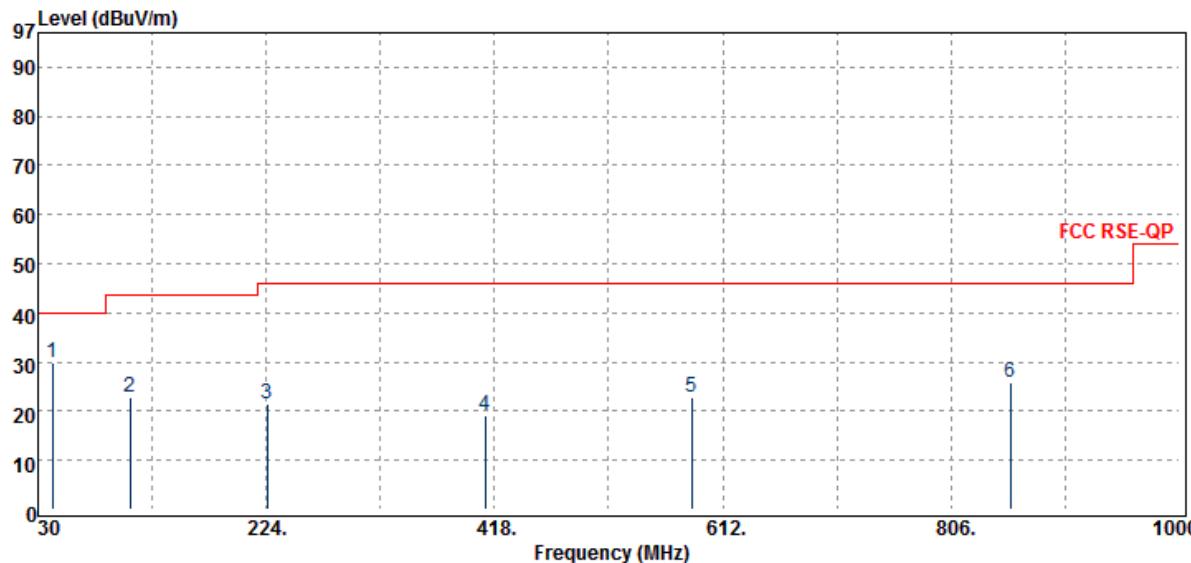
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Operation Band	:802.11 a	Test Date	:2014-11-18
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.



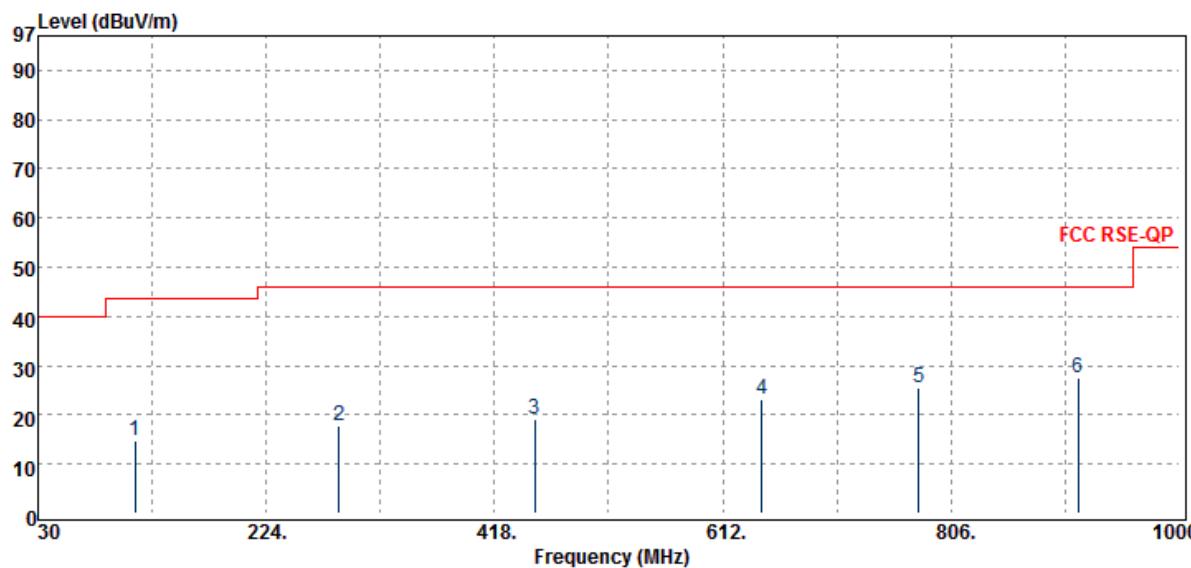
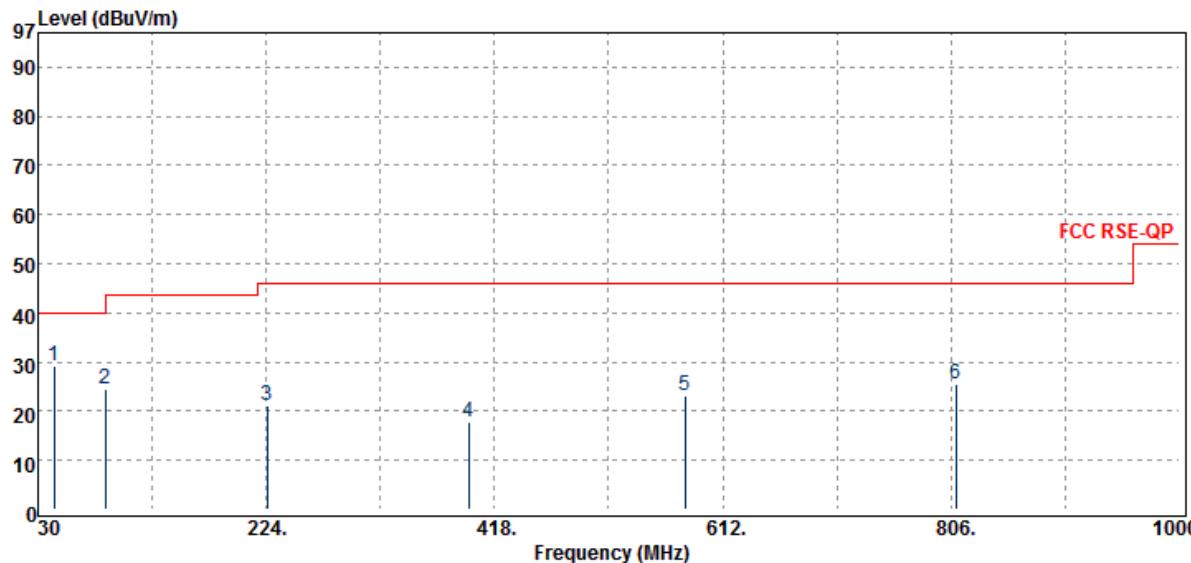
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802.11a 5725-5850MHz

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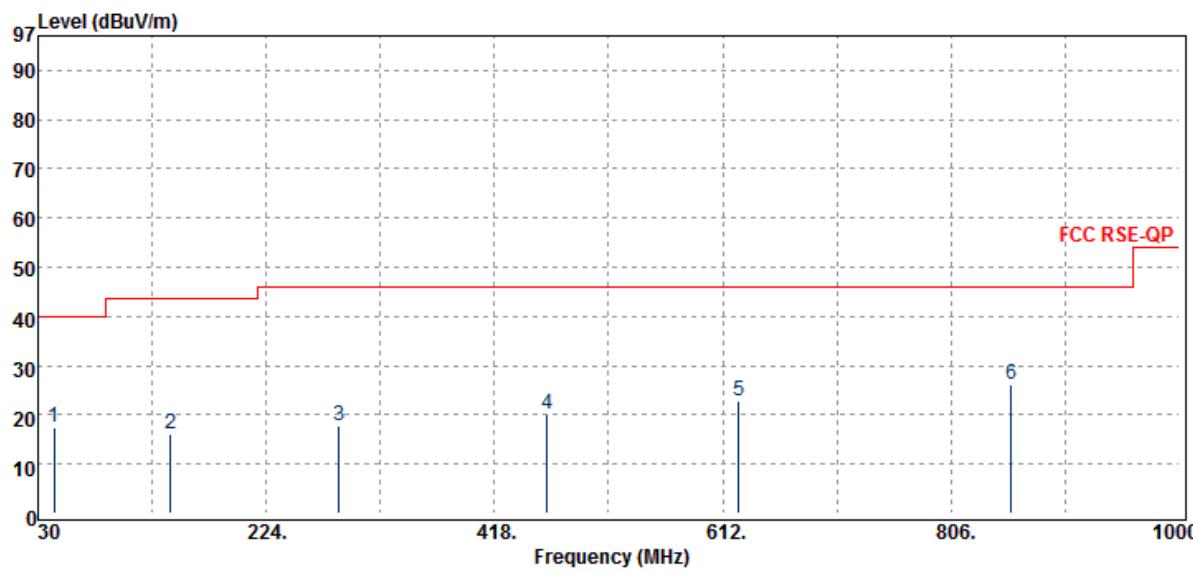
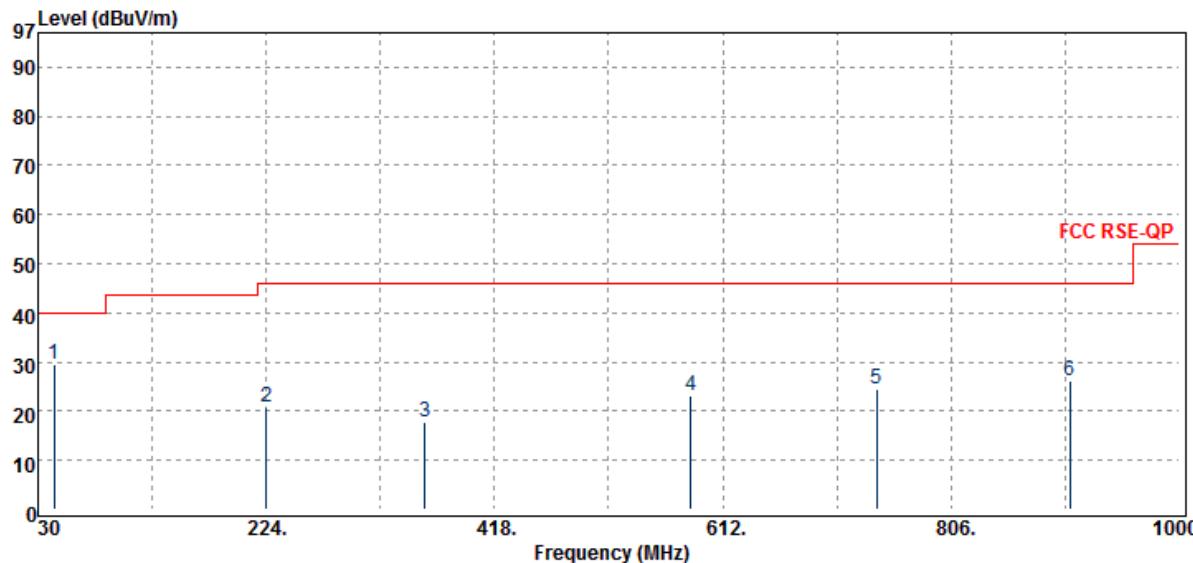
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Operation Band	:802.11 a	Test Date	:2014-11-18
Fundamental Frequency	:5785 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.

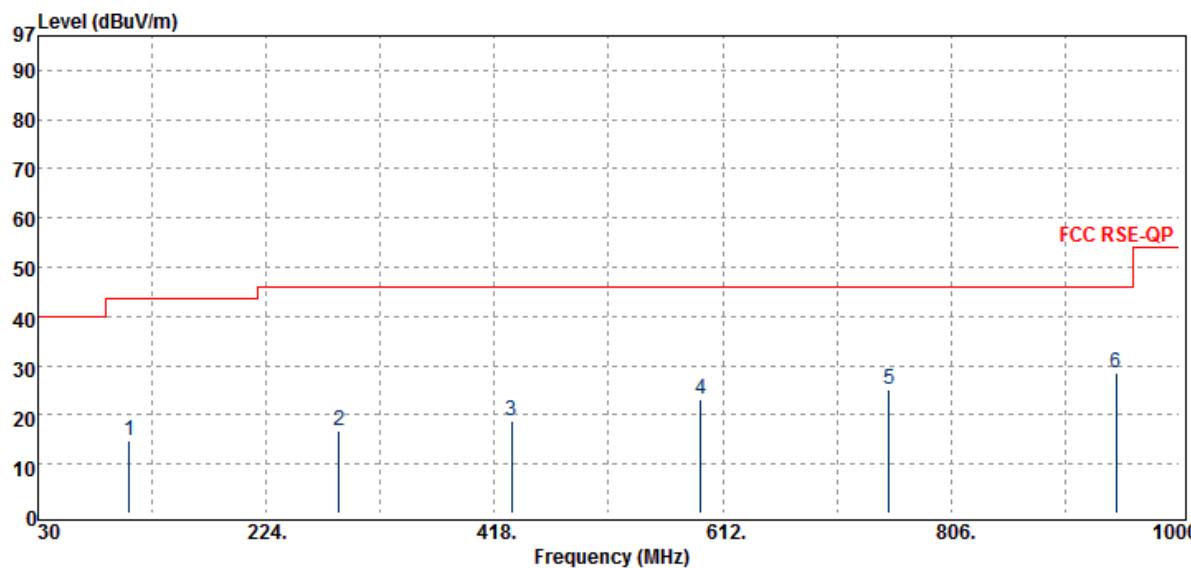
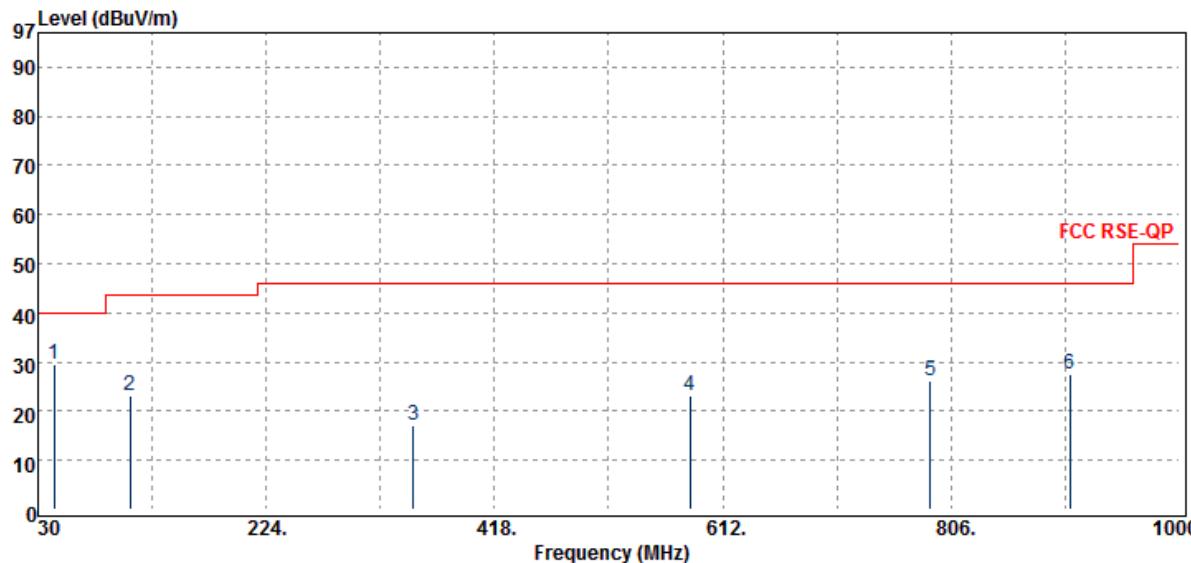


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Operation Band	:802.11 a	Test Date	:2014-11-18
Fundamental Frequency	:5825 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.



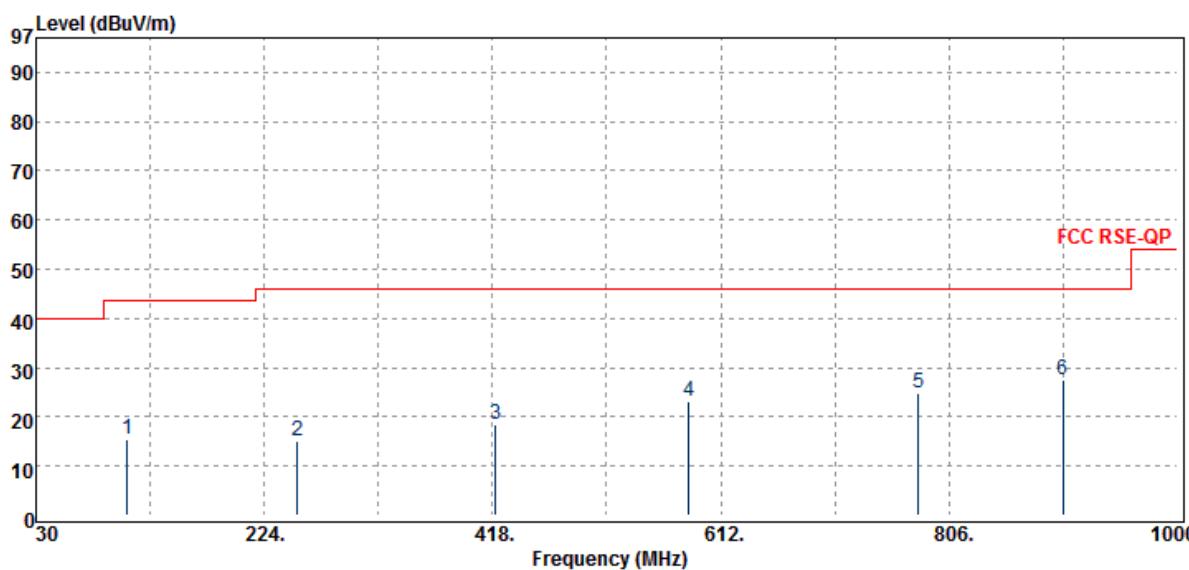
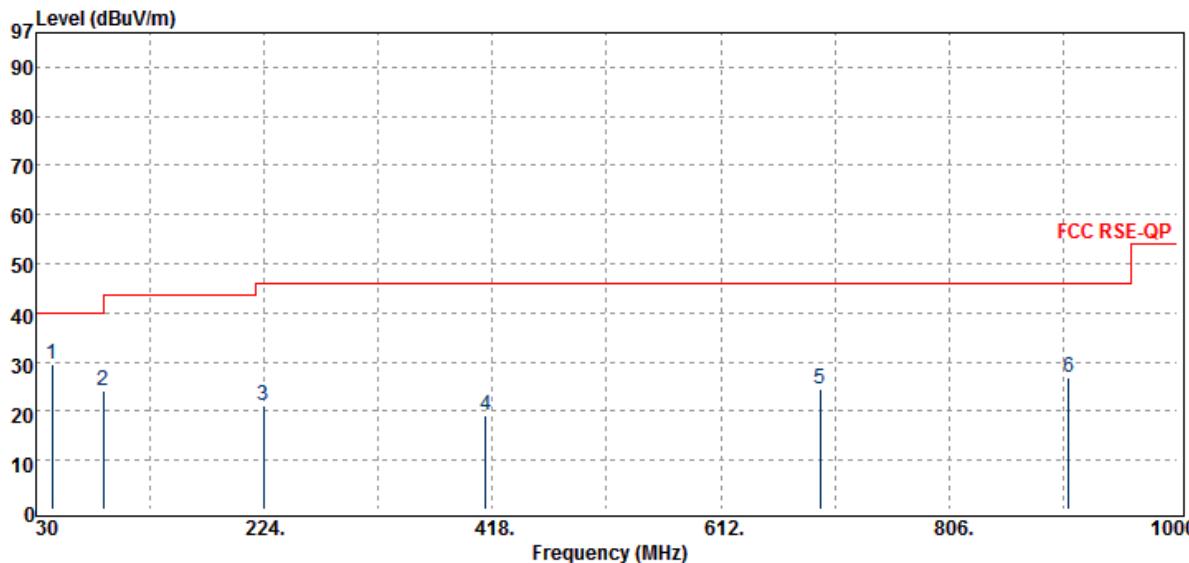
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802.11n_20M 5150-5250MHz

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.	:Ver. / Hor.



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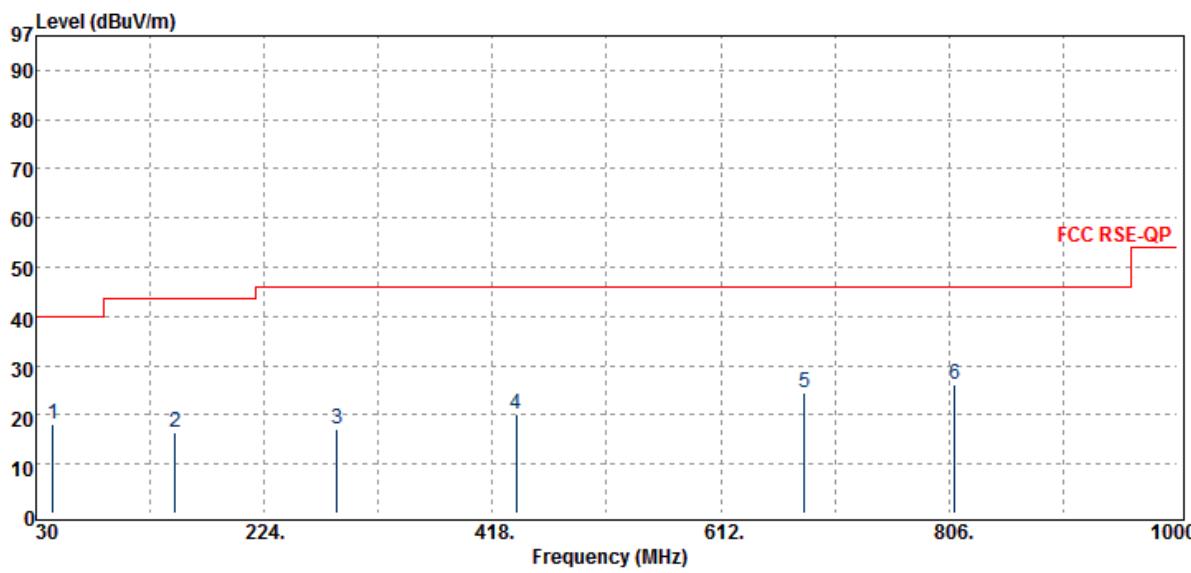
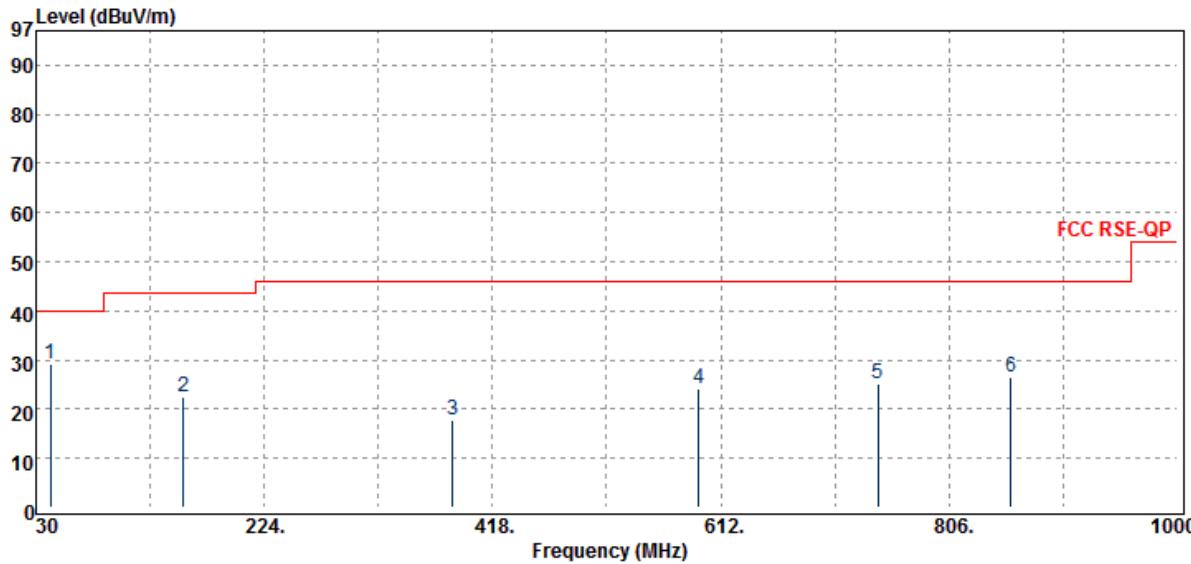
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Operation Band	:802.11 n20M	Test Date	:2014-11-18
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.



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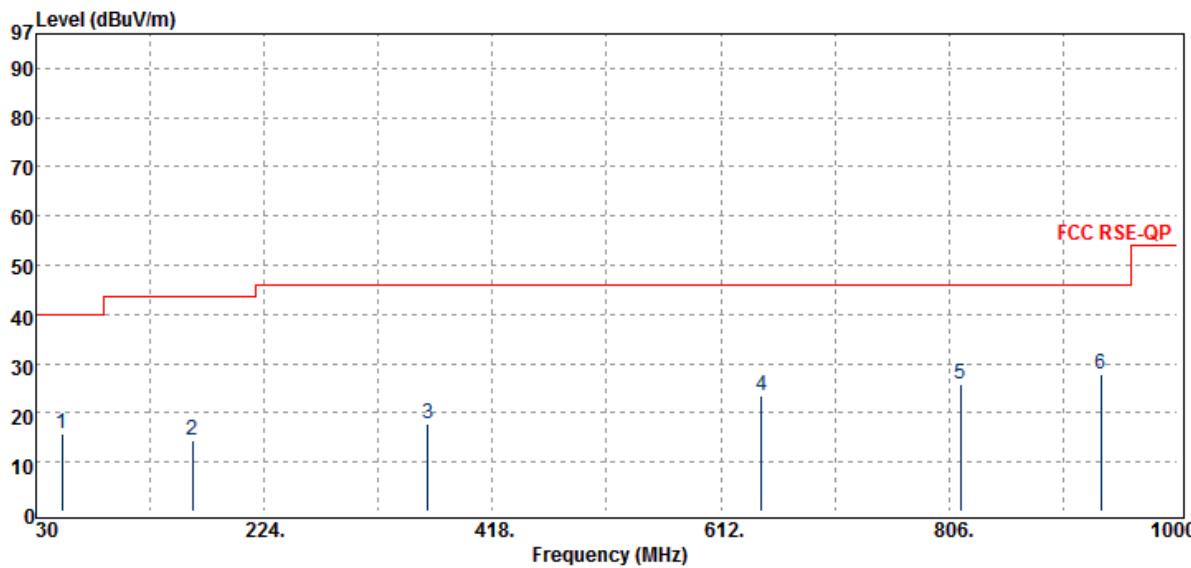
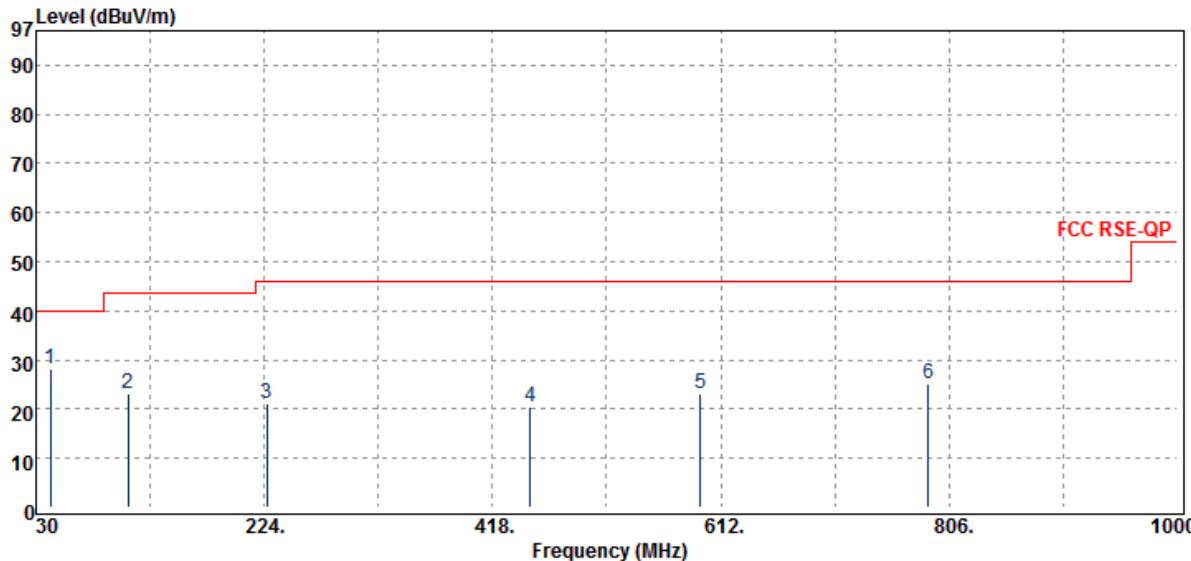
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Operation Band	:802.11 n20M	Test Date	:2014-11-18
Fundamental Frequency	:5240 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.



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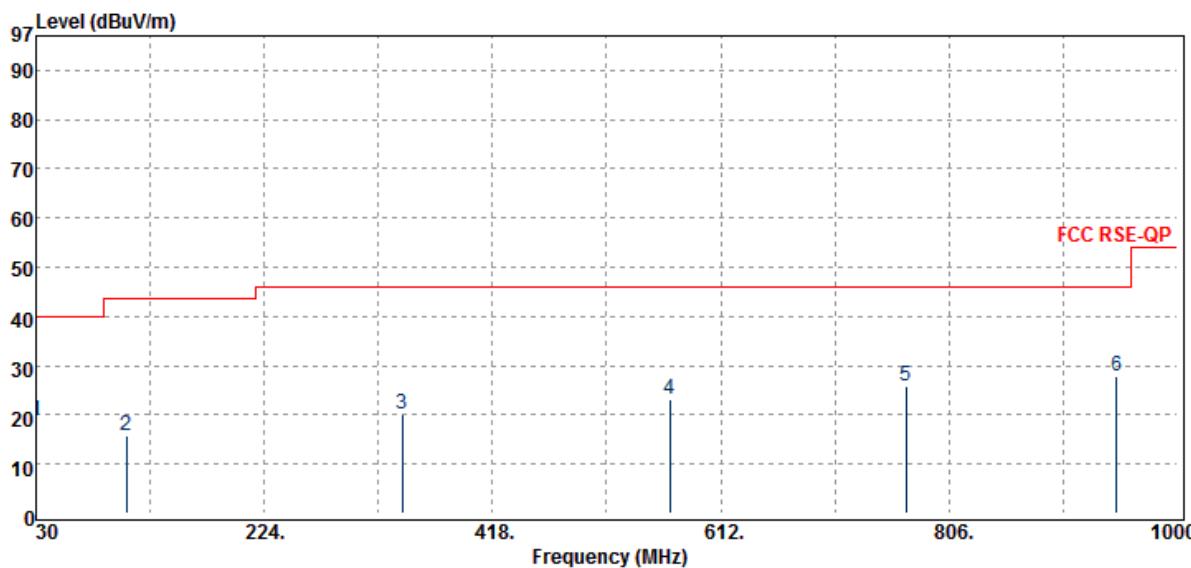
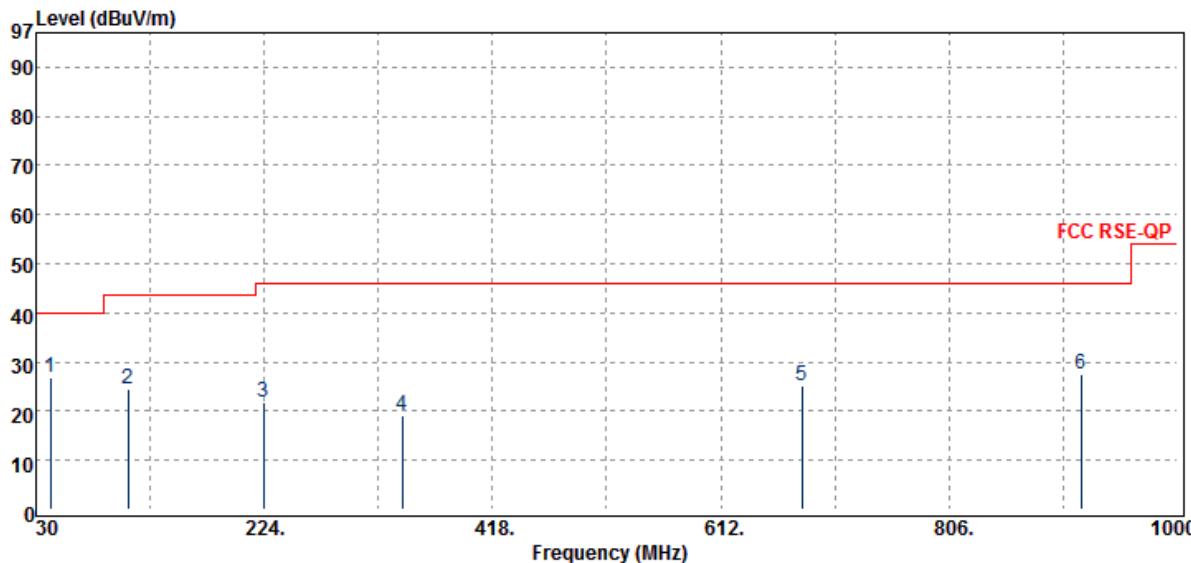
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802.11n_20M 5250-5350MHz

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.	:Ver. / Hor.



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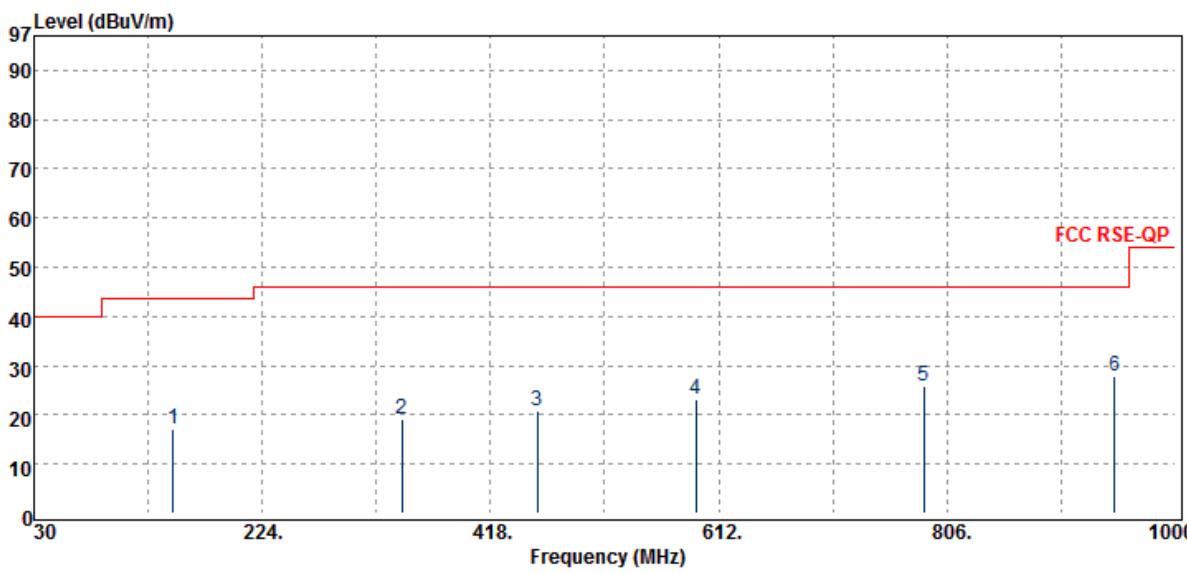
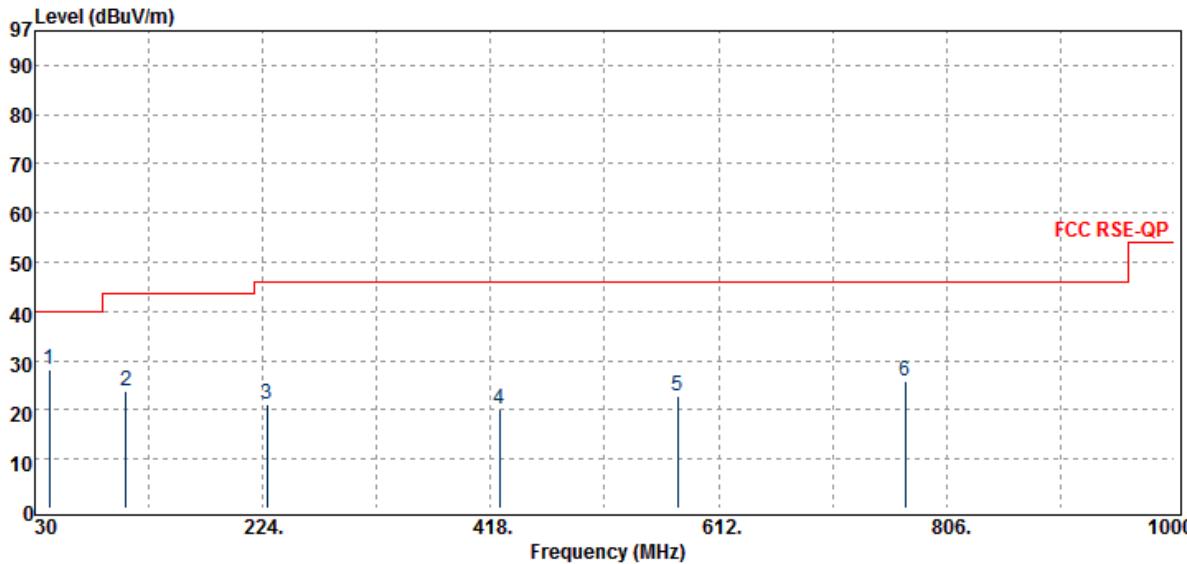
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Operation Band	:802.11 n20M	Test Date	:2014-11-18
Fundamental Frequency	:5300 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.



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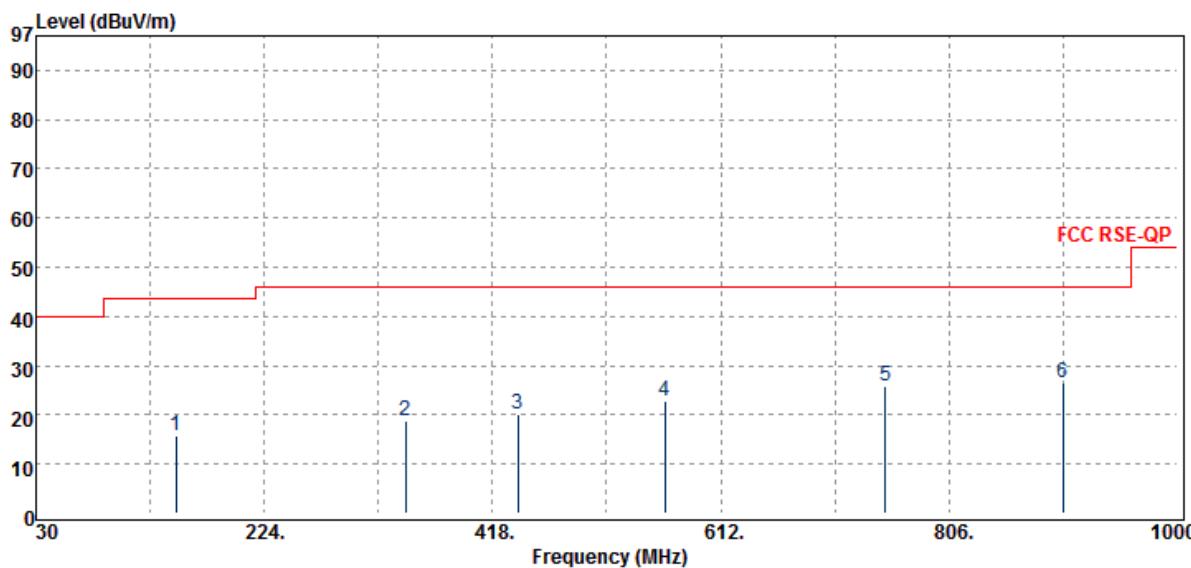
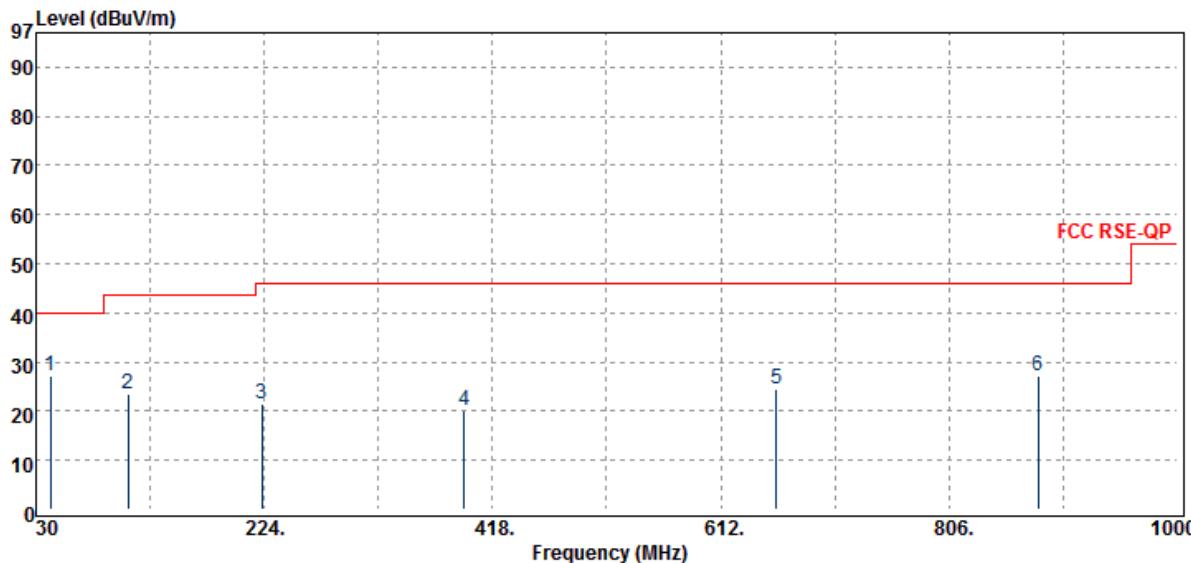
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Operation Band	:802.11 n20M	Test Date	:2014-11-18
Fundamental Frequency	:5320 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.



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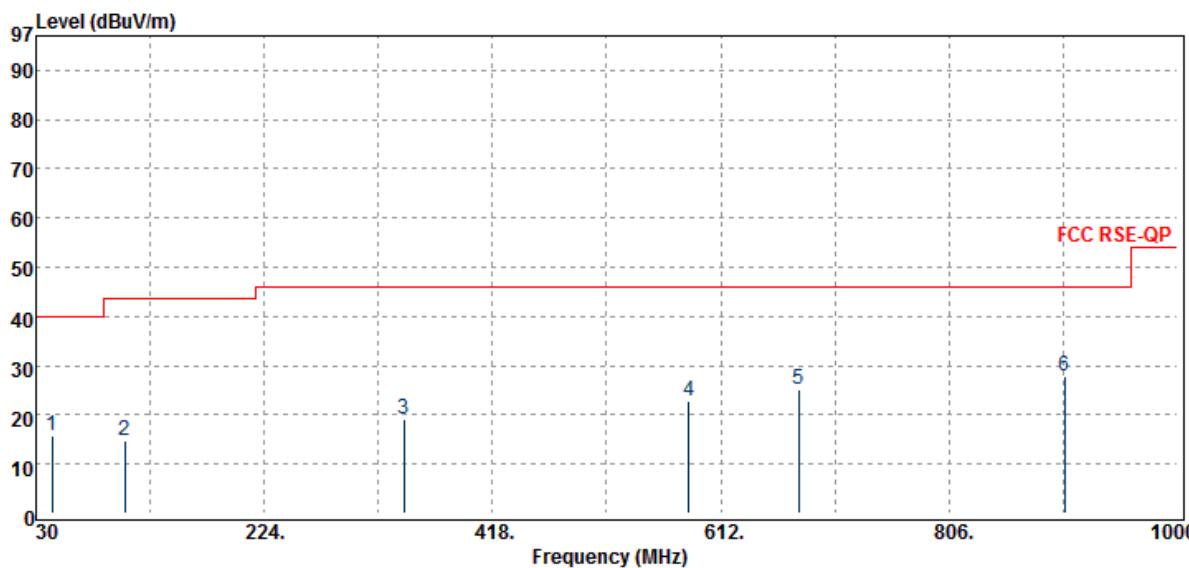
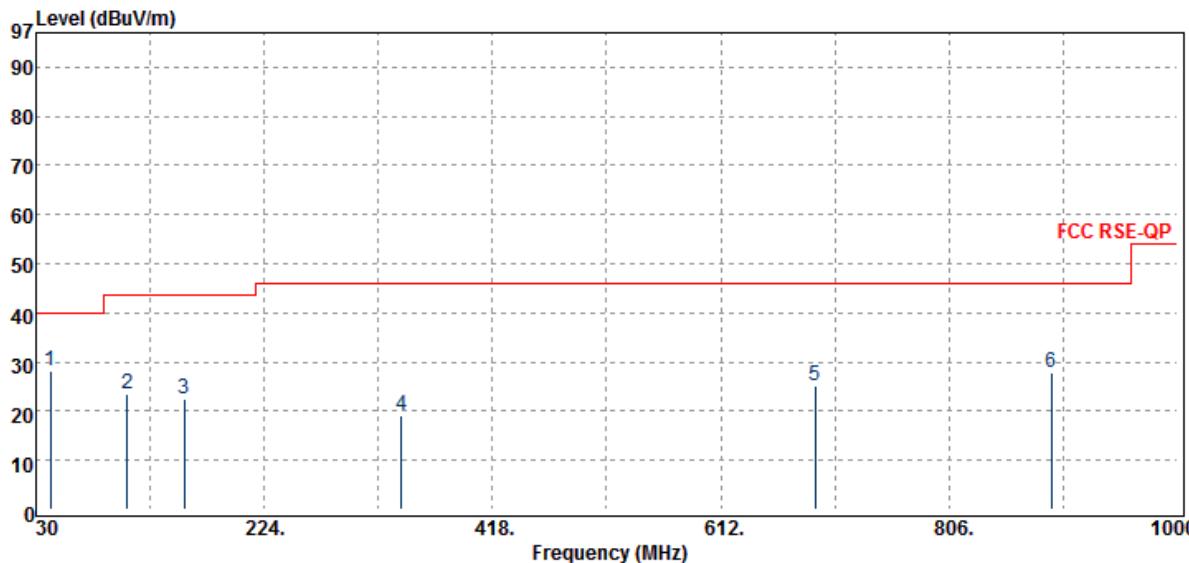
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802.11n_20M 5470-5725MHz

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.	:Ver. / Hor.

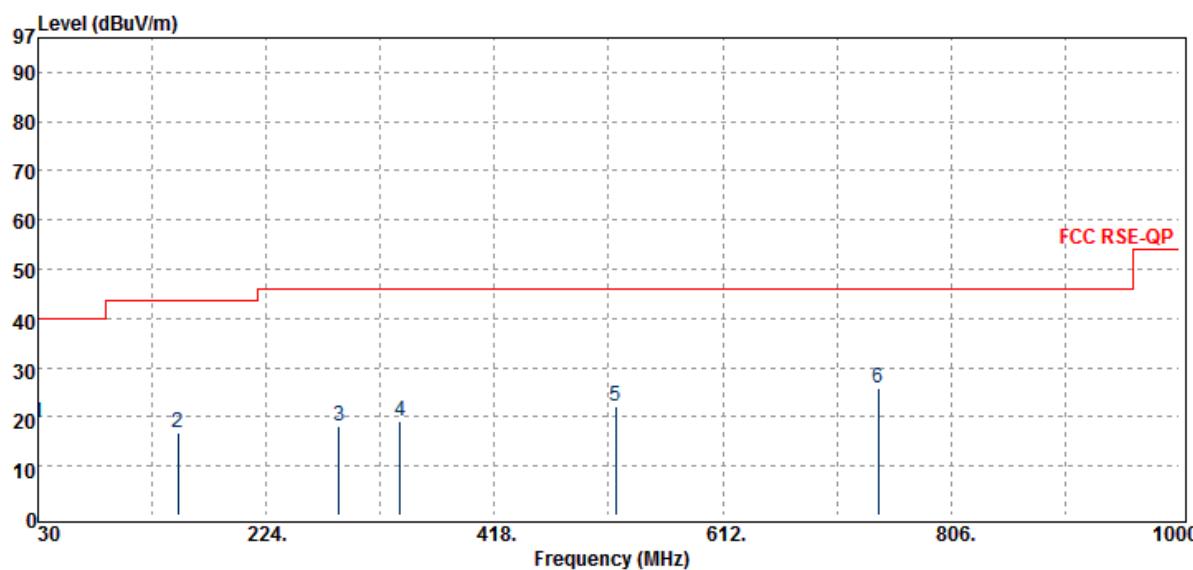
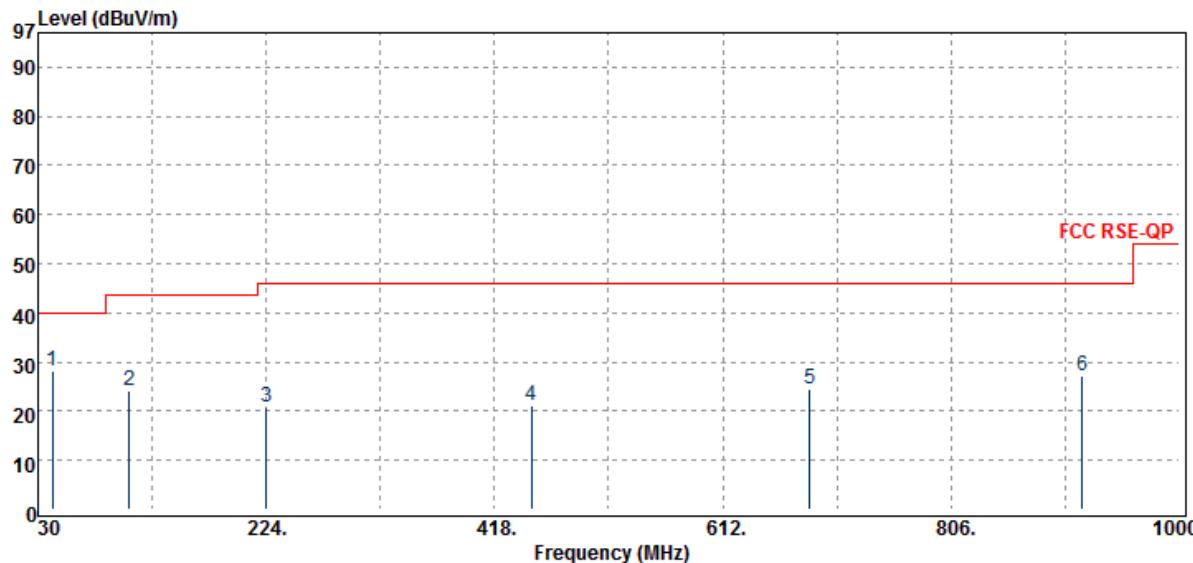


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Operation Band	:802.11 n20M	Test Date	:2014-11-18
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.



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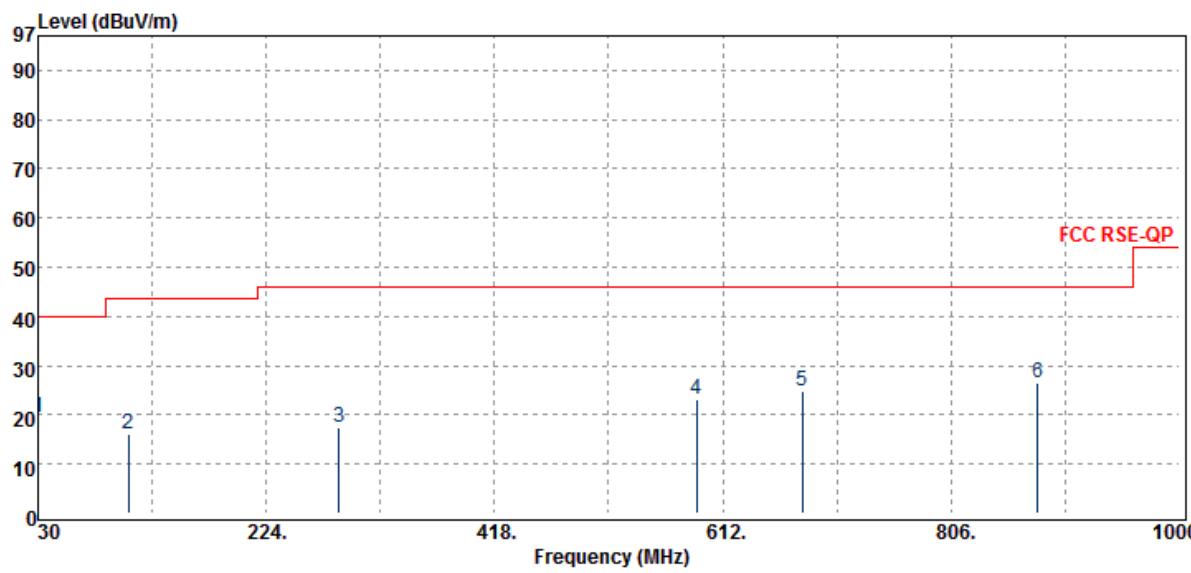
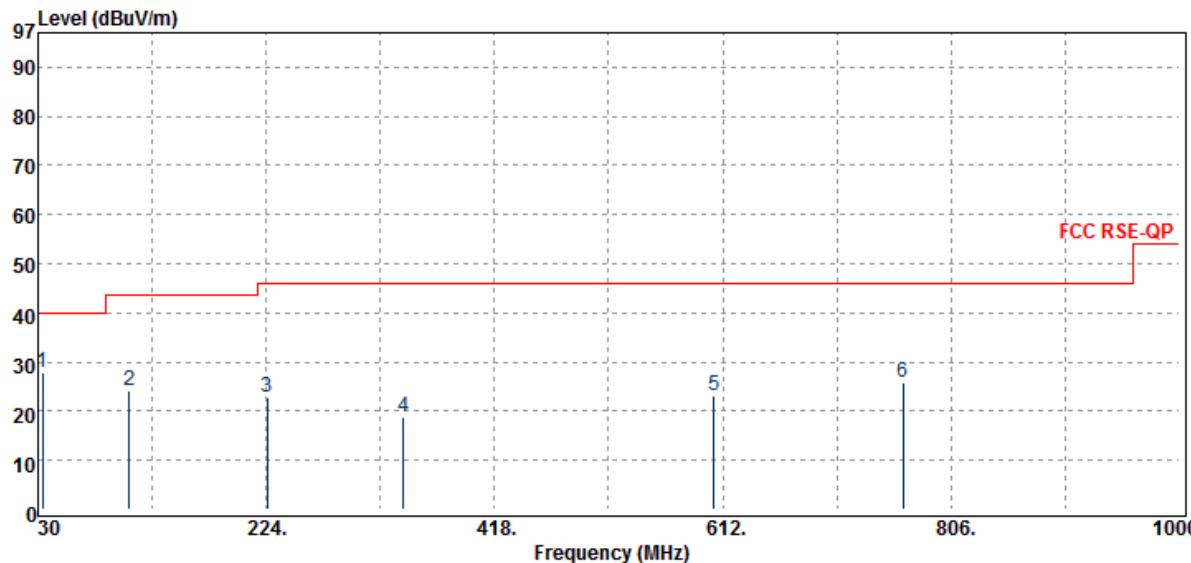
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Operation Band	:802.11 n20M	Test Date	:2014-11-18
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.



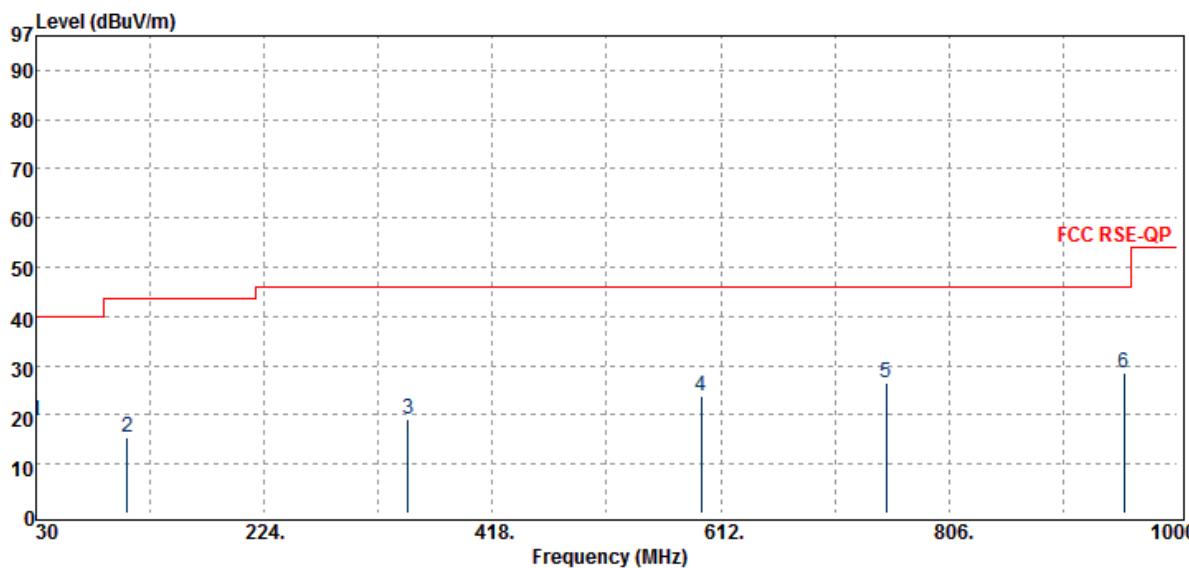
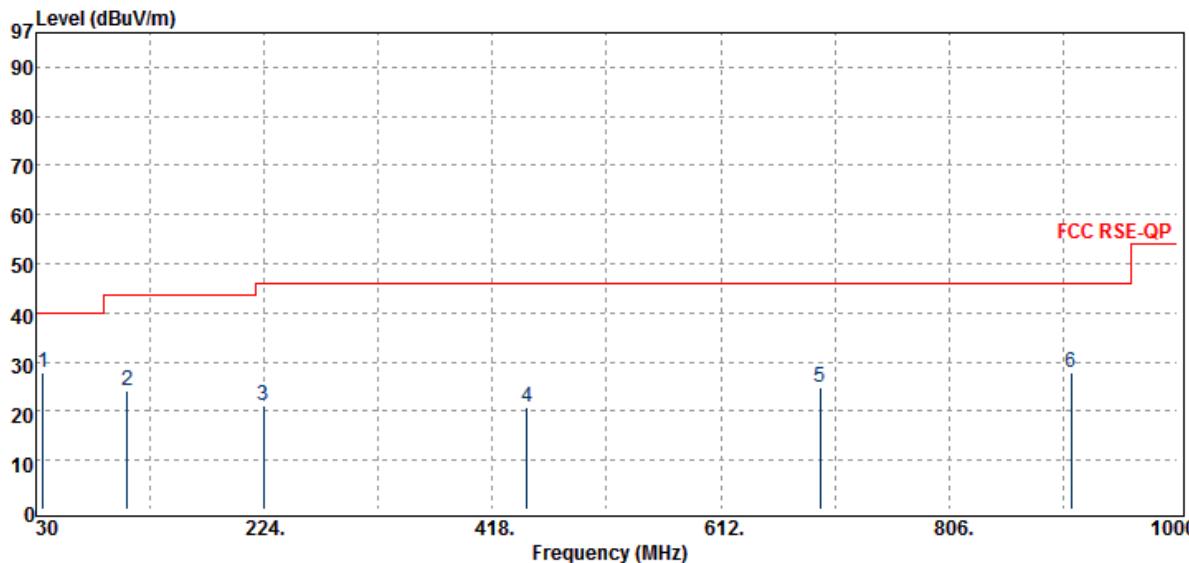
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802.11n_20M 5725-5850MHz

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.	:Ver. / Hor.



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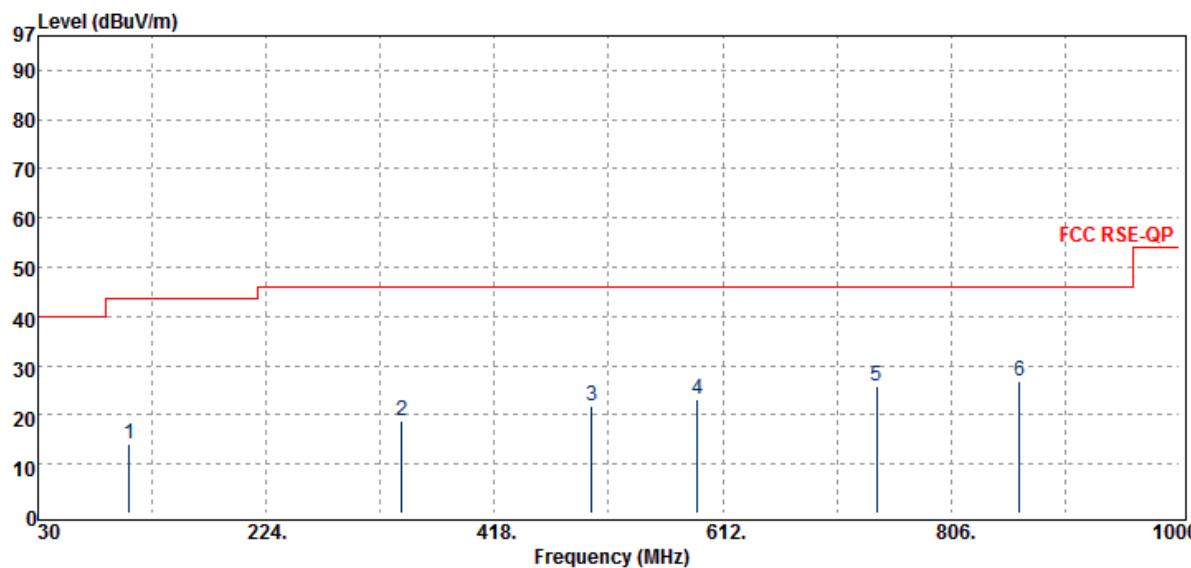
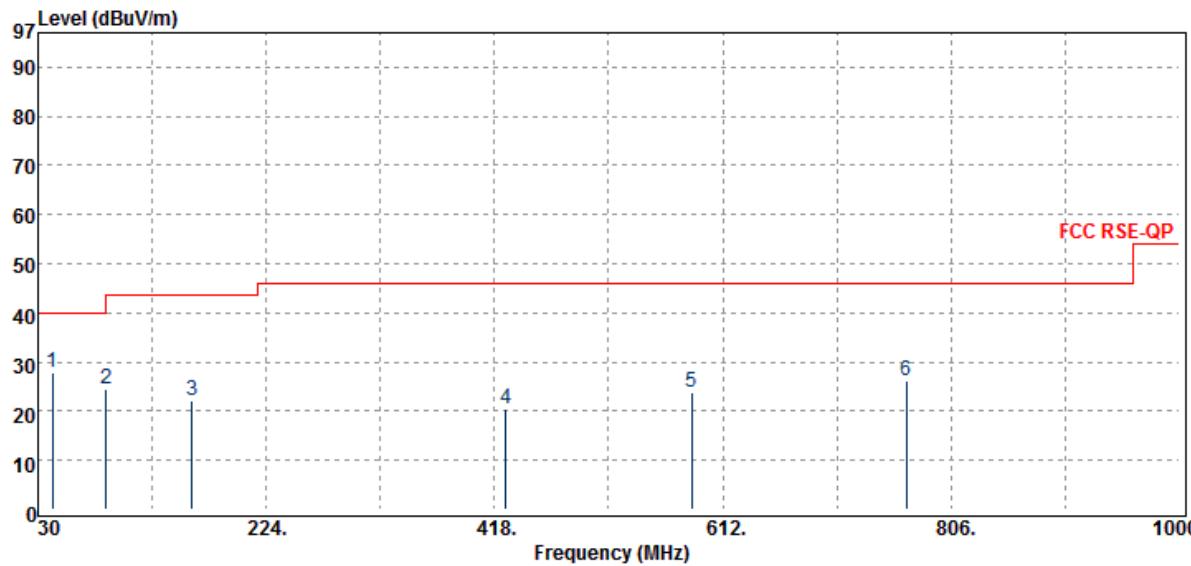
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Operation Band	:802.11 n20M	Test Date	:2014-11-18
Fundamental Frequency	:5785 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.

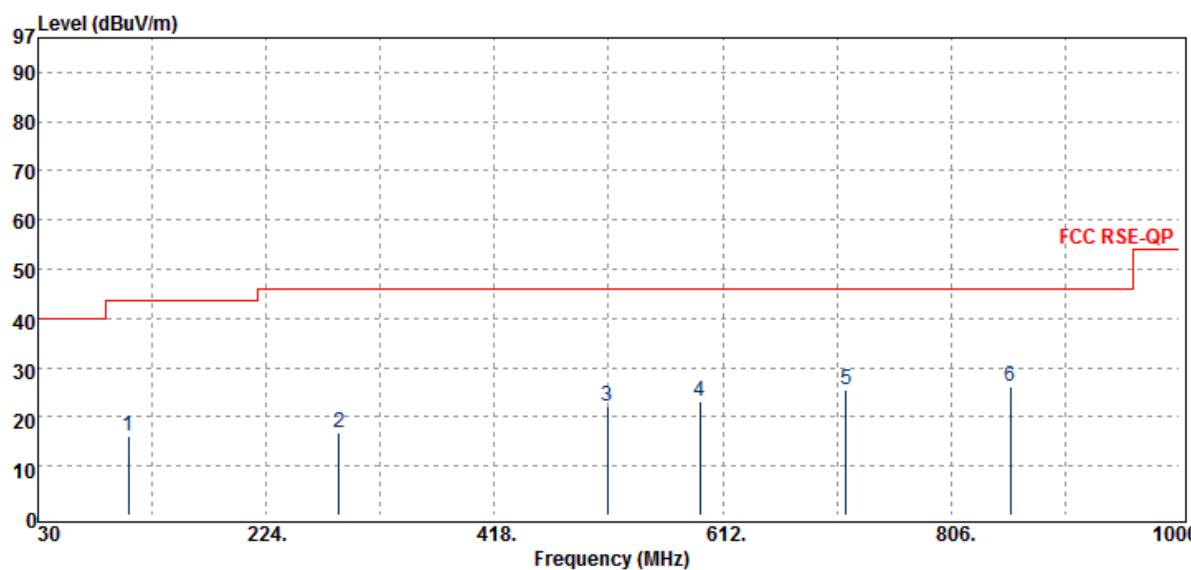
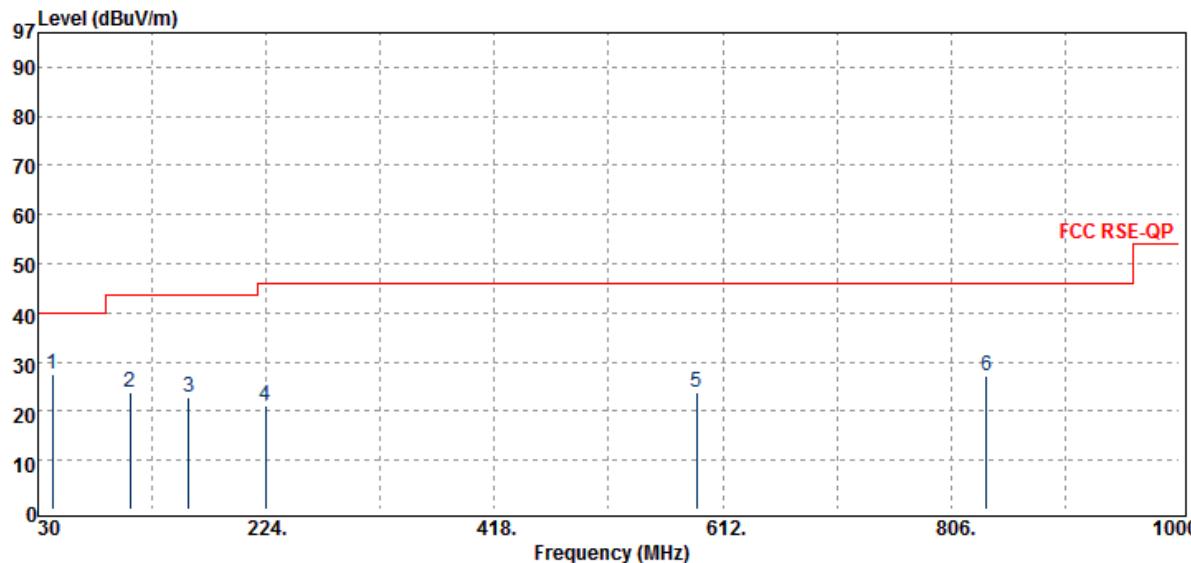


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Operation Band	:802.11 n20M	Test Date	:2014-11-18
Fundamental Frequency	:5825 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.



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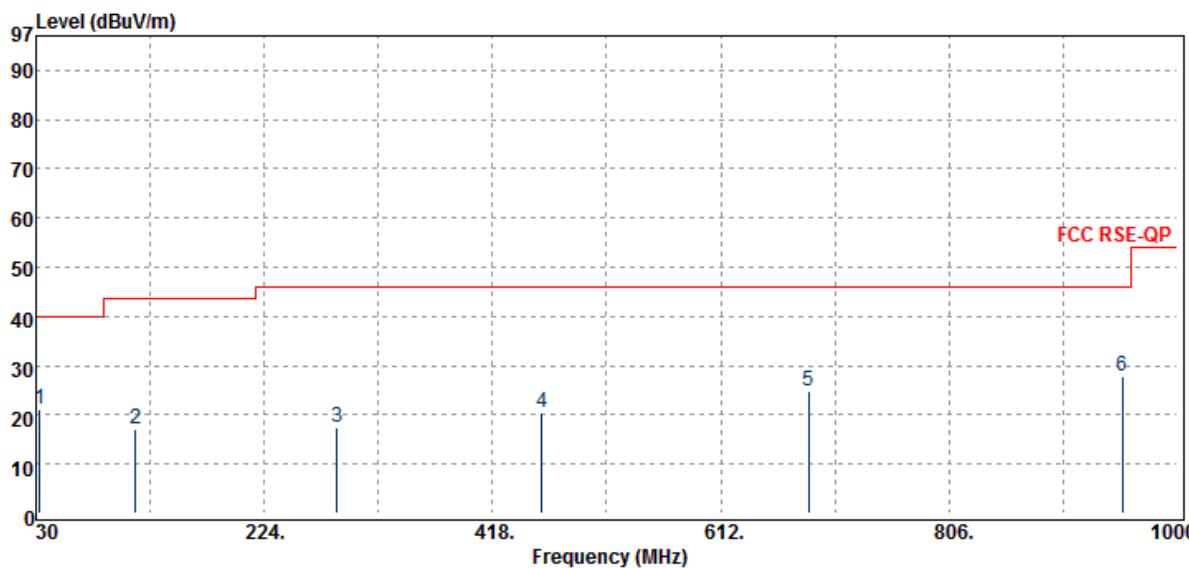
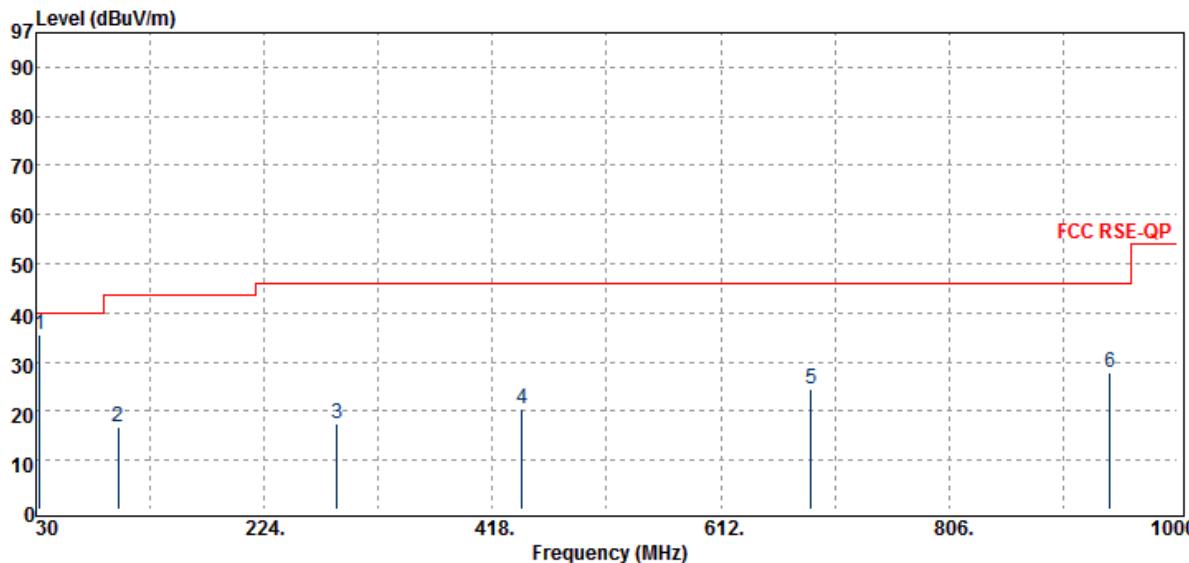
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802.11n_40M 5150-5250MHz

Operation Band	:802.11 n40M	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.	:Ver. / Hor.



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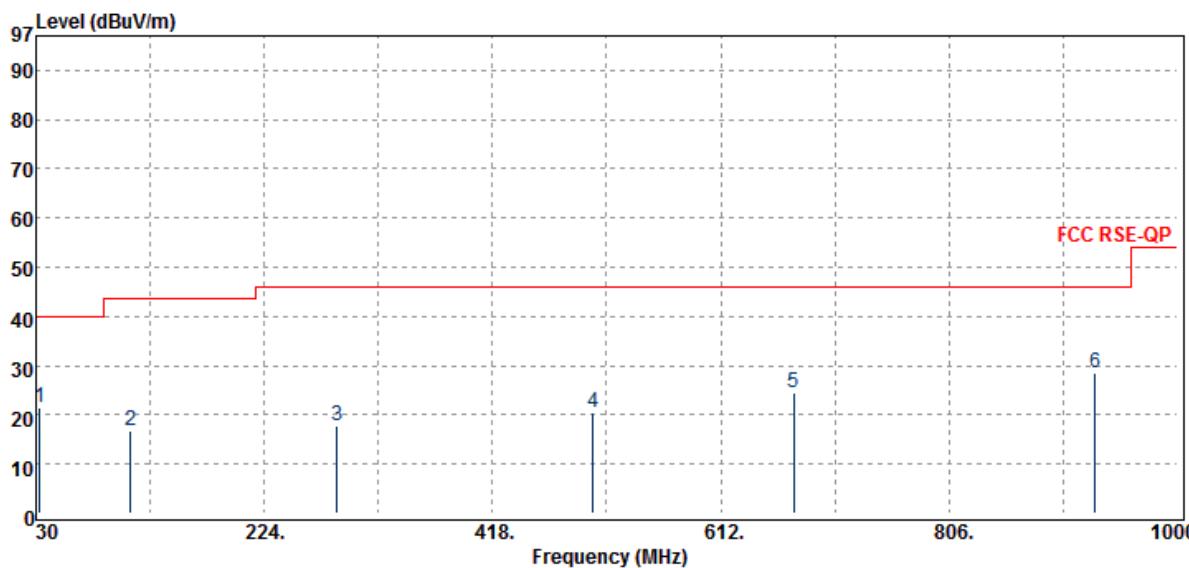
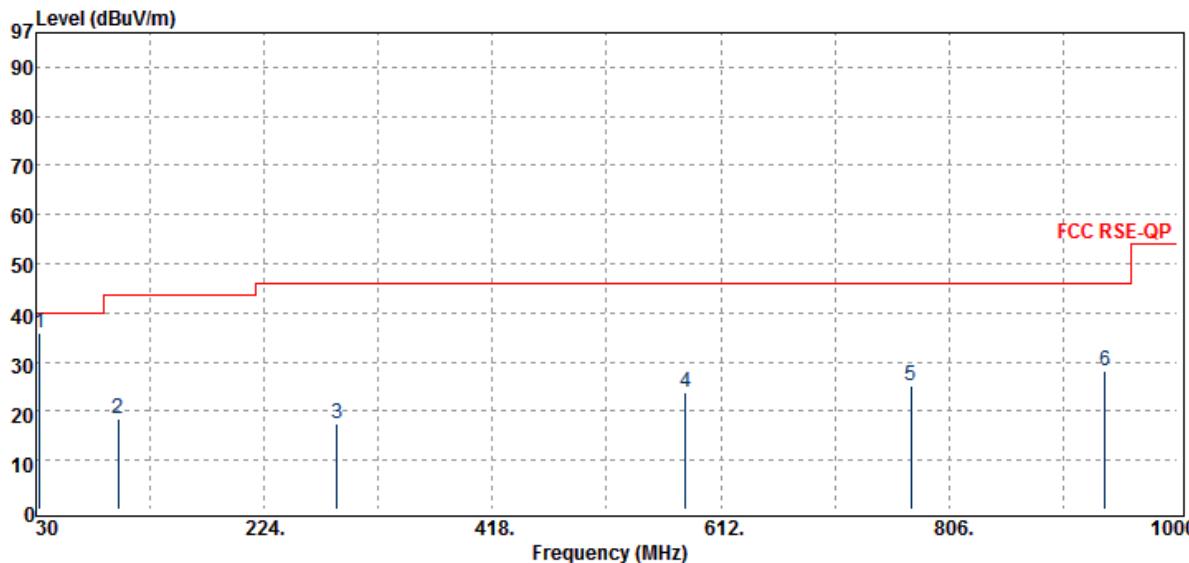
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Operation Band	:802.11 n40M	Test Date	:2014-11-18
Fundamental Frequency	:5230 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.



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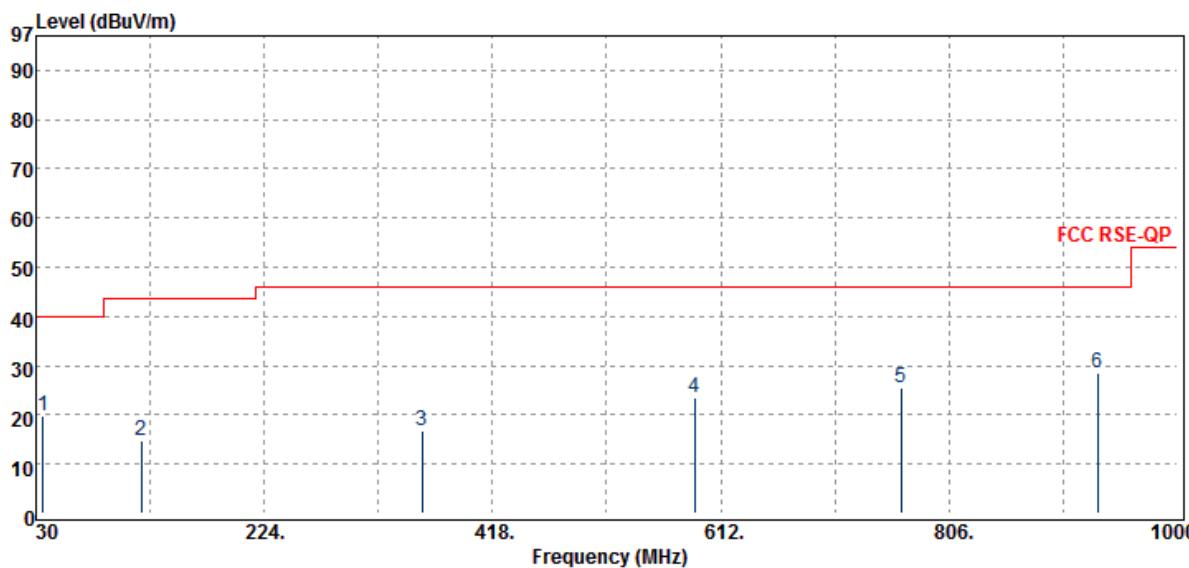
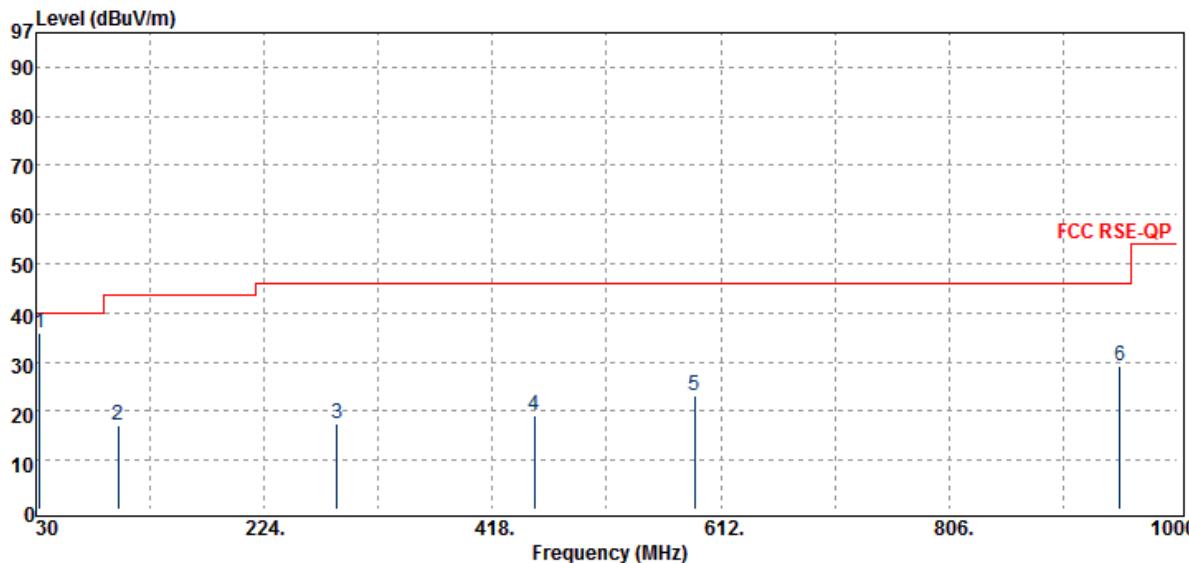
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802.11n_40M 5250-5350MHz

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.	:Ver. / Hor.



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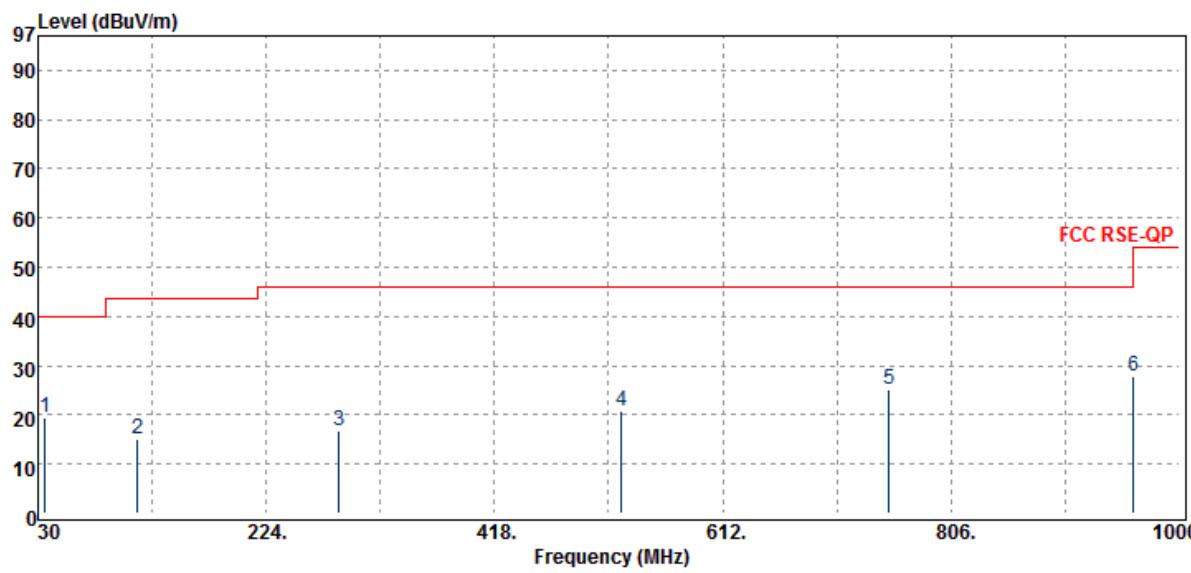
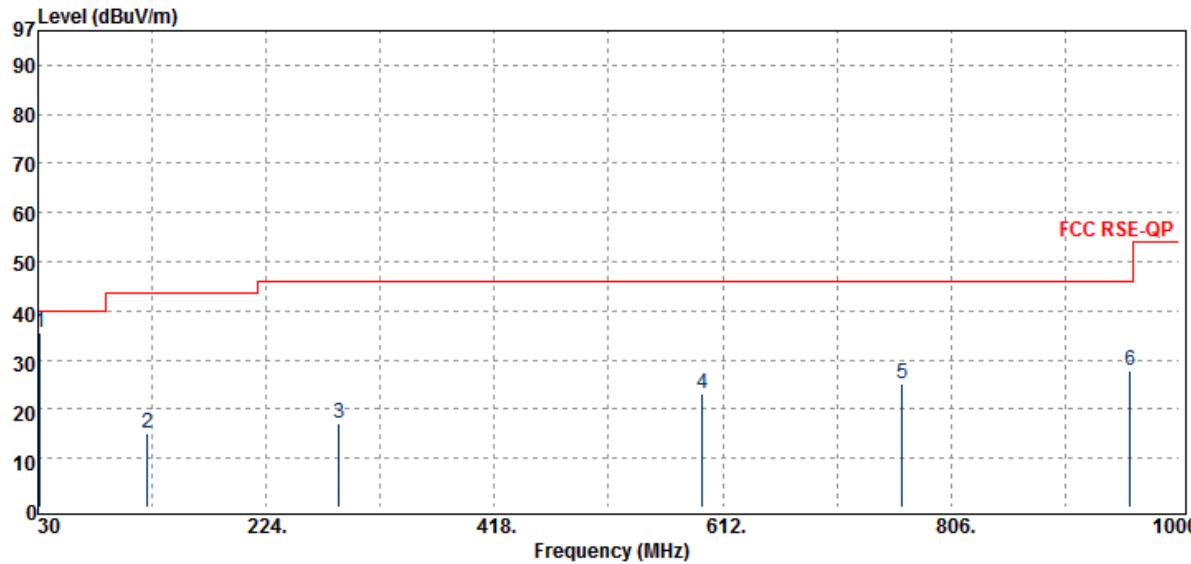
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Operation Band	:802.11 n40M	Test Date	:2014-11-18
Fundamental Frequency	:5310 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.



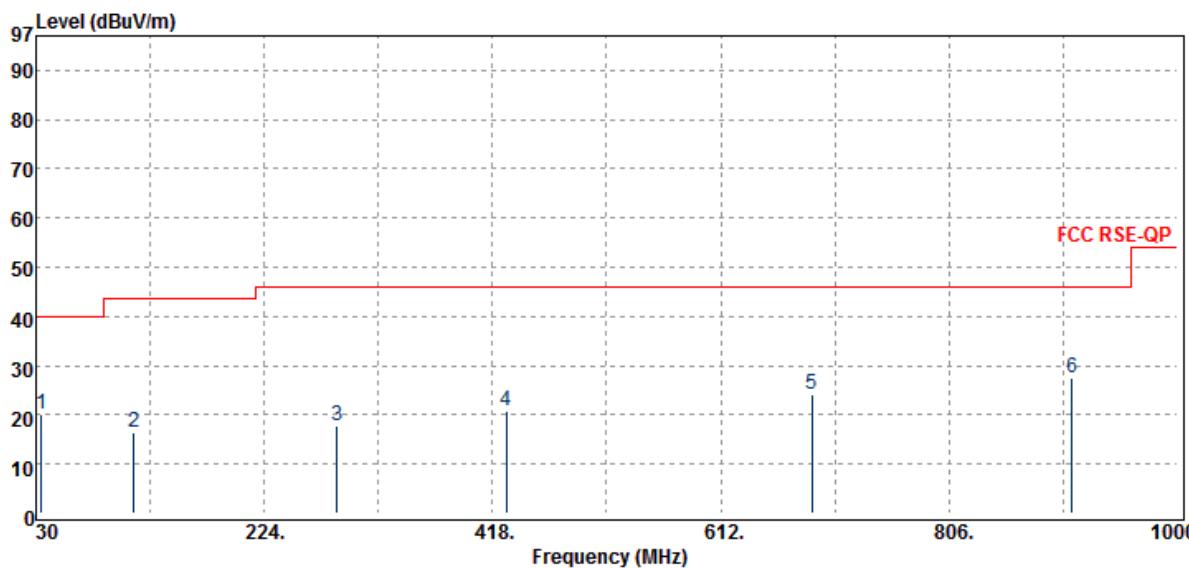
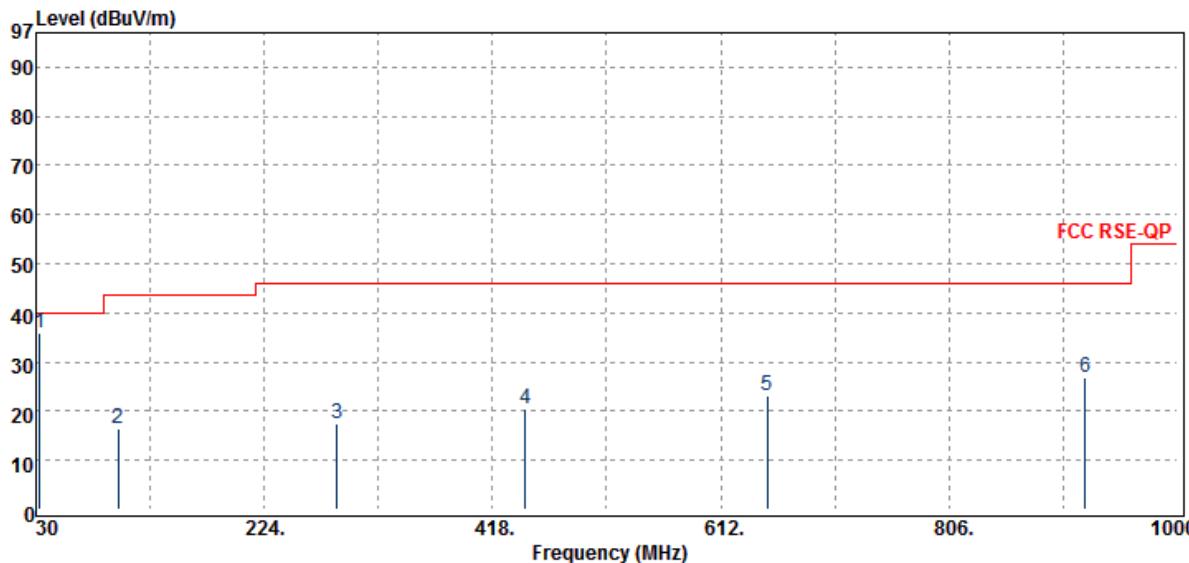
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802.11n_40M 5470-5725MHz

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.	:Ver. / Hor.

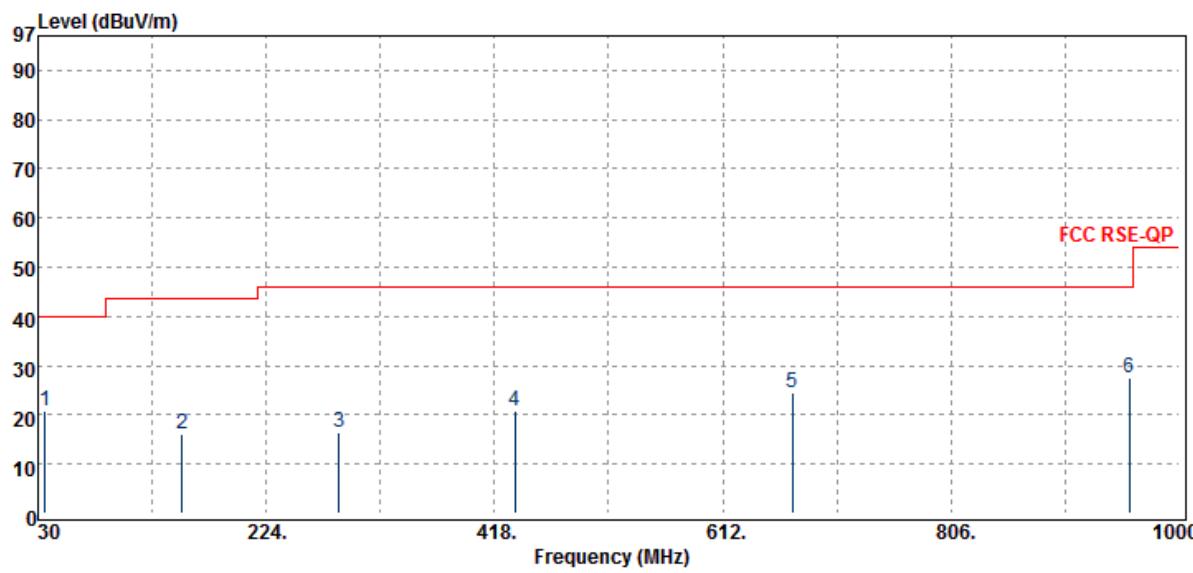
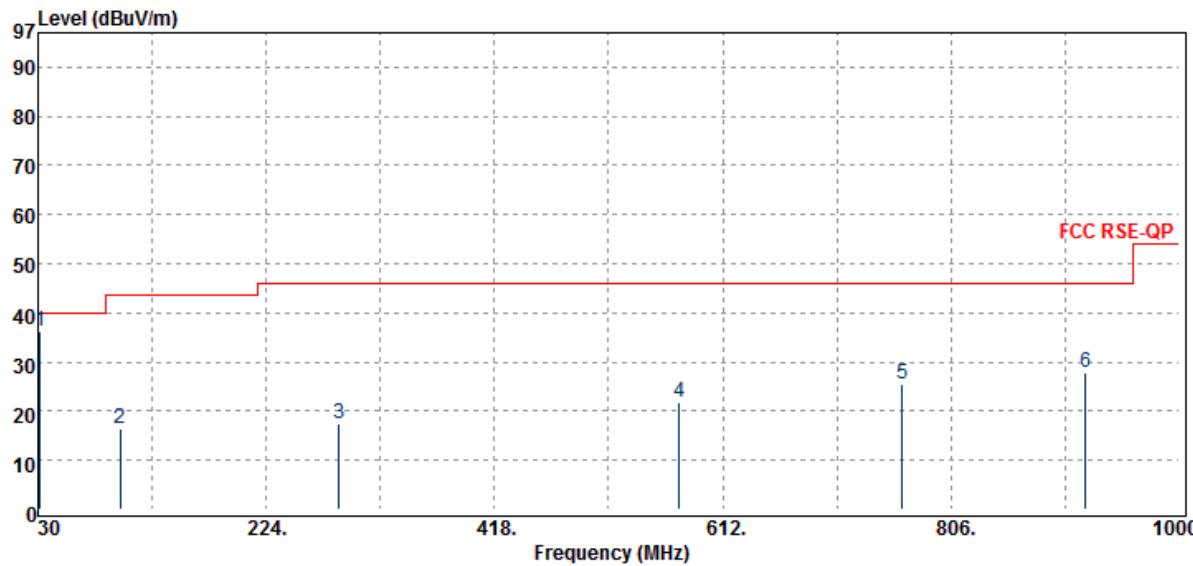


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Operation Band	:802.11 n40M	Test Date	:2014-11-18
Fundamental Frequency	:5550 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.

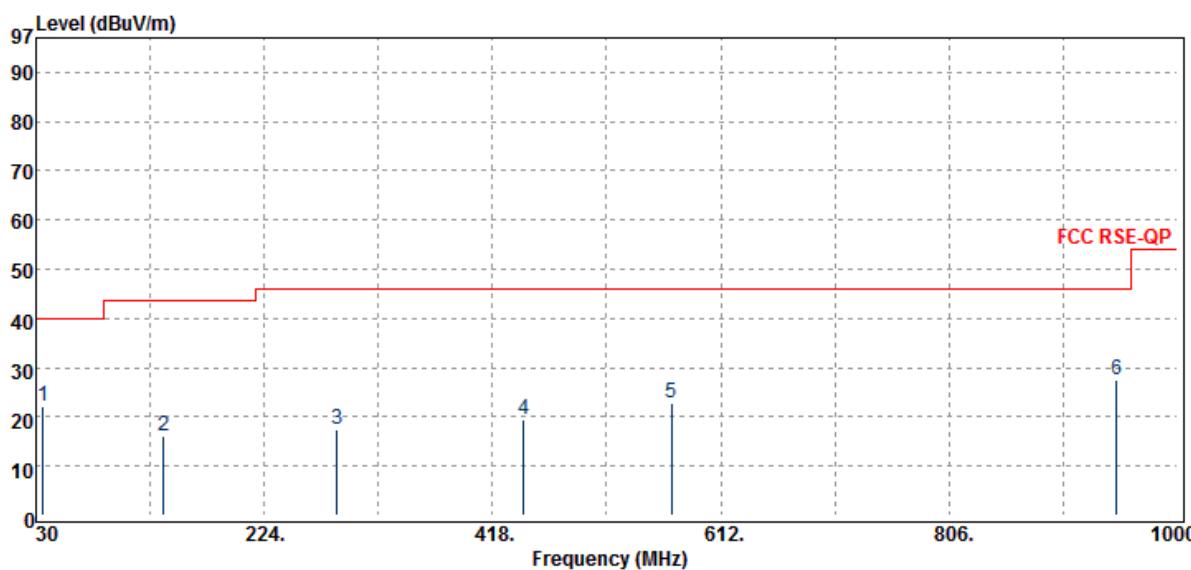
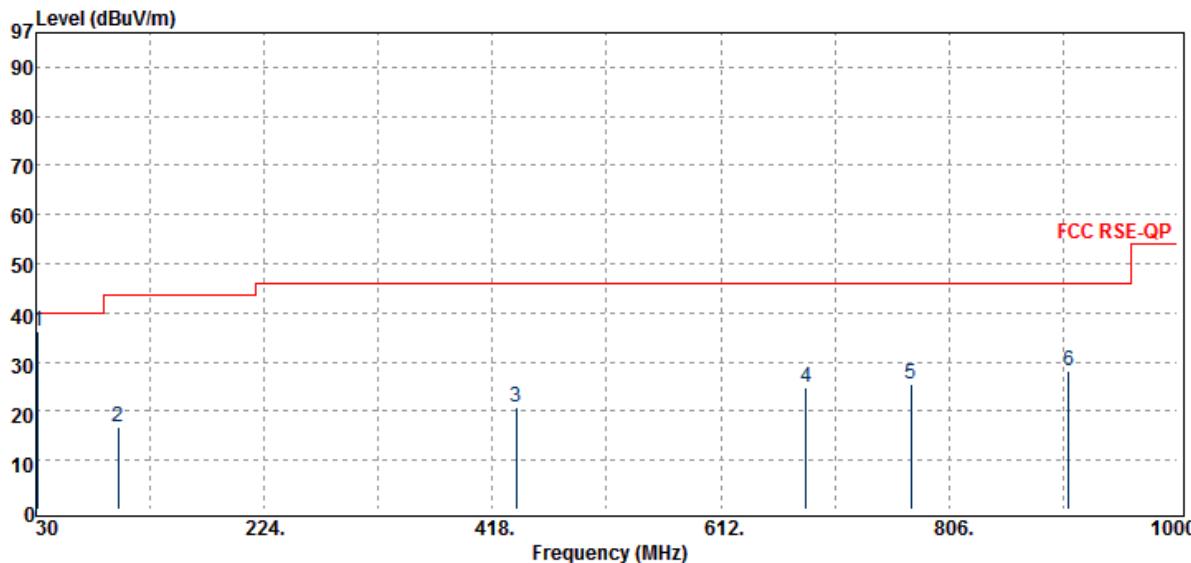


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Operation Band	:802.11 n40M	Test Date	:2014-11-18
Fundamental Frequency	:5670 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.



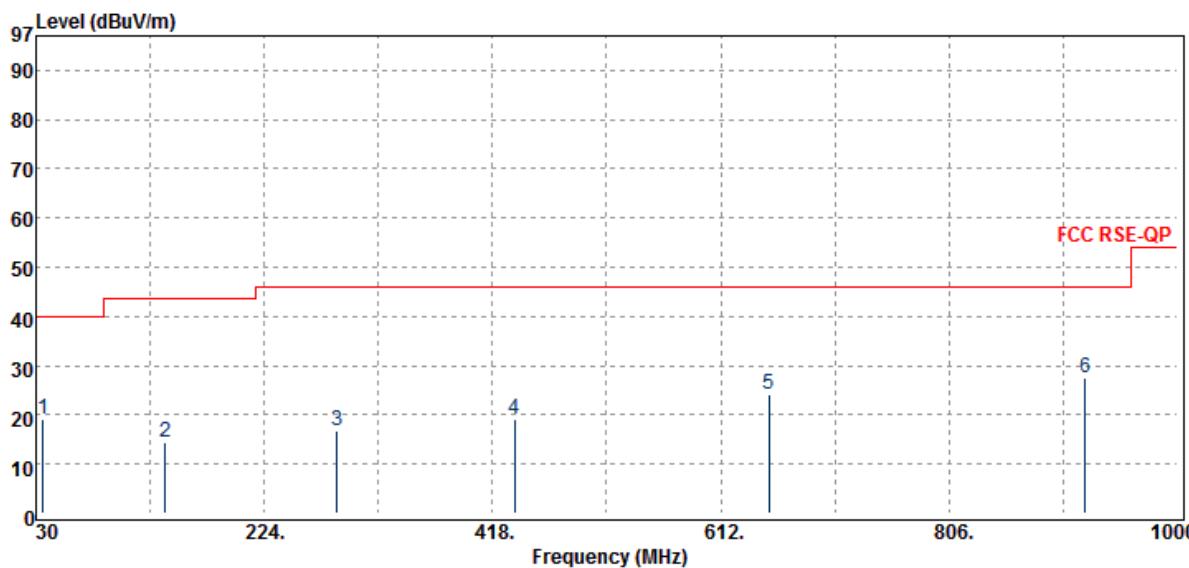
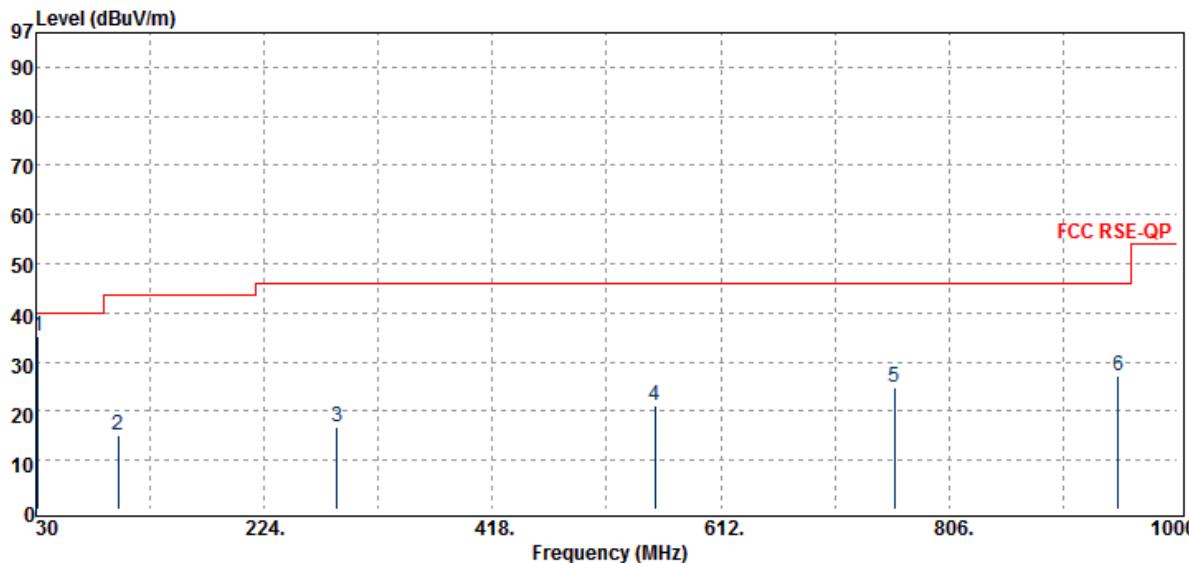
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802.11n_40M 5725-5850MHz

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.	:Ver. / Hor.



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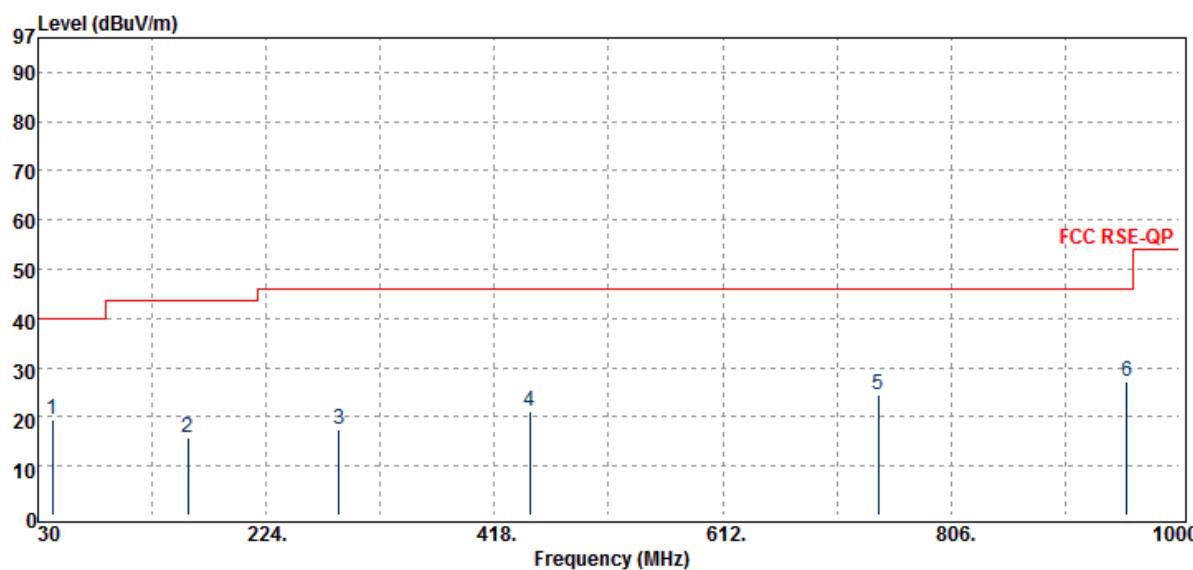
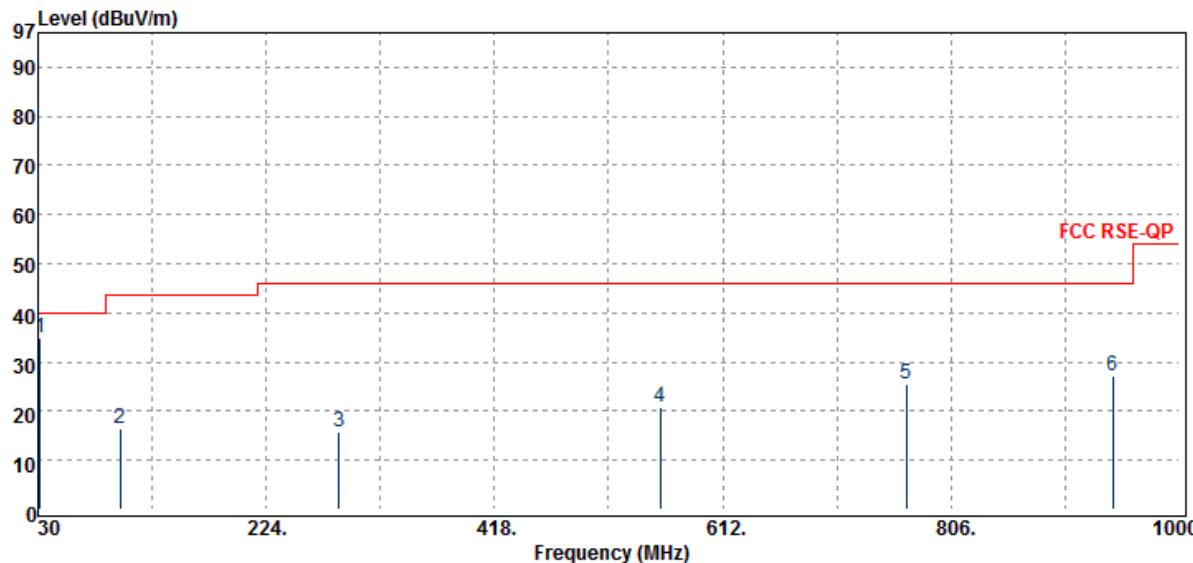
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Operation Band	:802.11 n40M	Test Date	:2014-11-18
Fundamental Frequency	:5795 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.



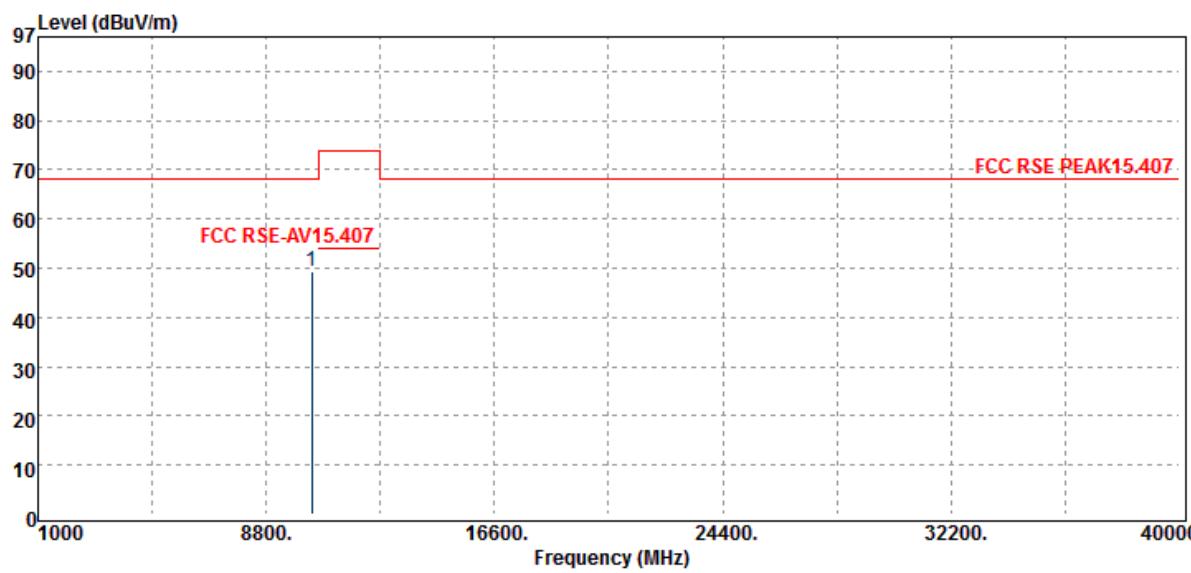
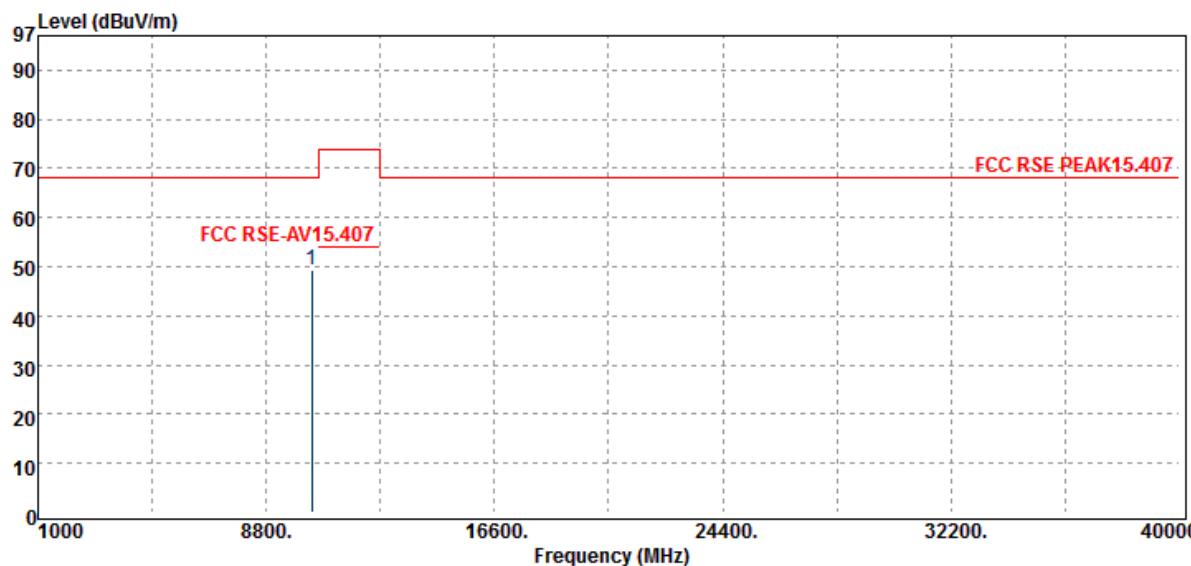
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Radiated Spurious Emission Measurement photos Result (above 1GHz)**802.11a 5150-5250MHz**

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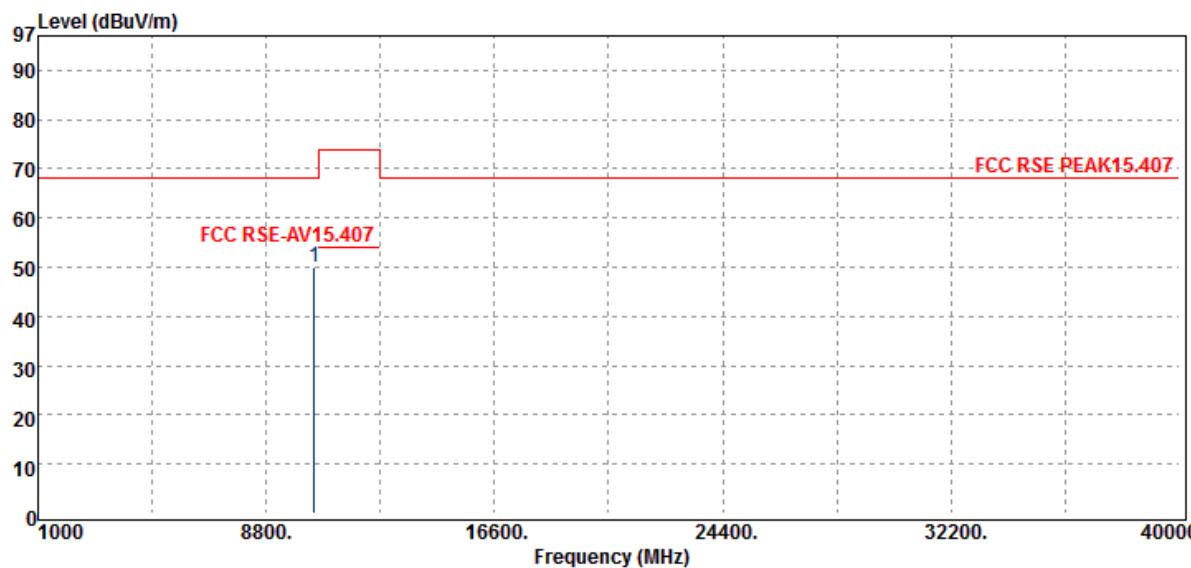
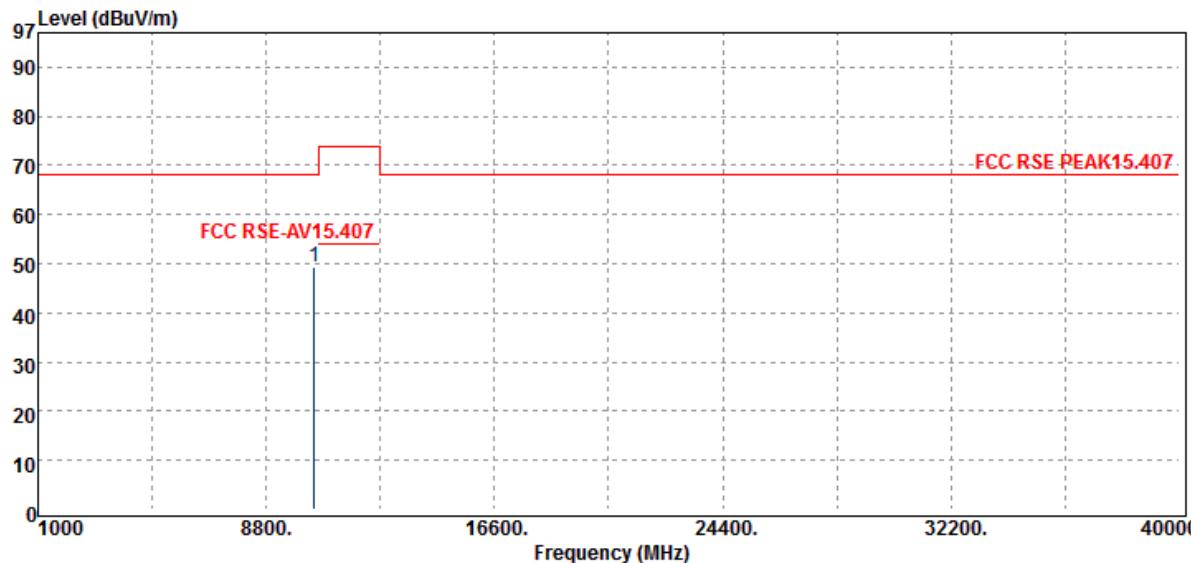
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Operation Band	:802.11 a	Test Date	:2014-11-18
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.

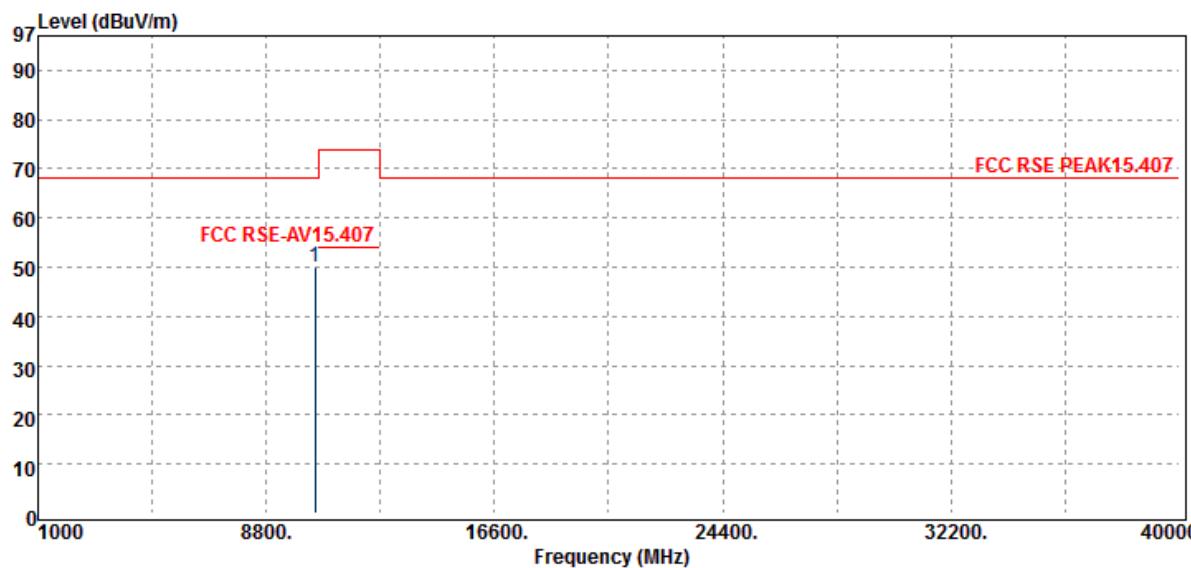
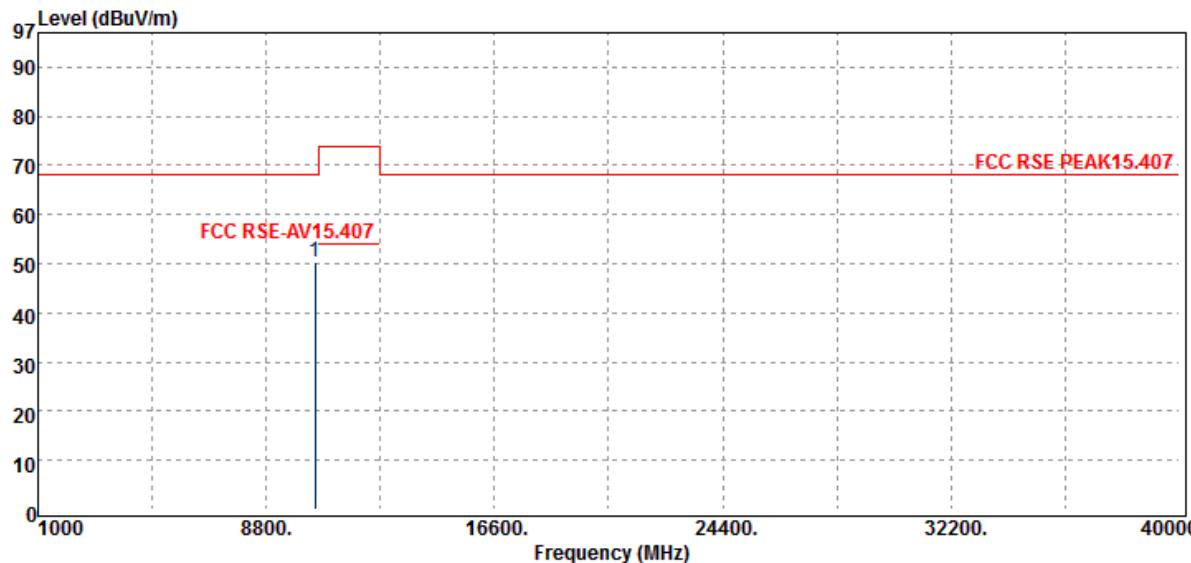


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Operation Band	:802.11 a	Test Date	:2014-11-18
Fundamental Frequency	:5240 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.



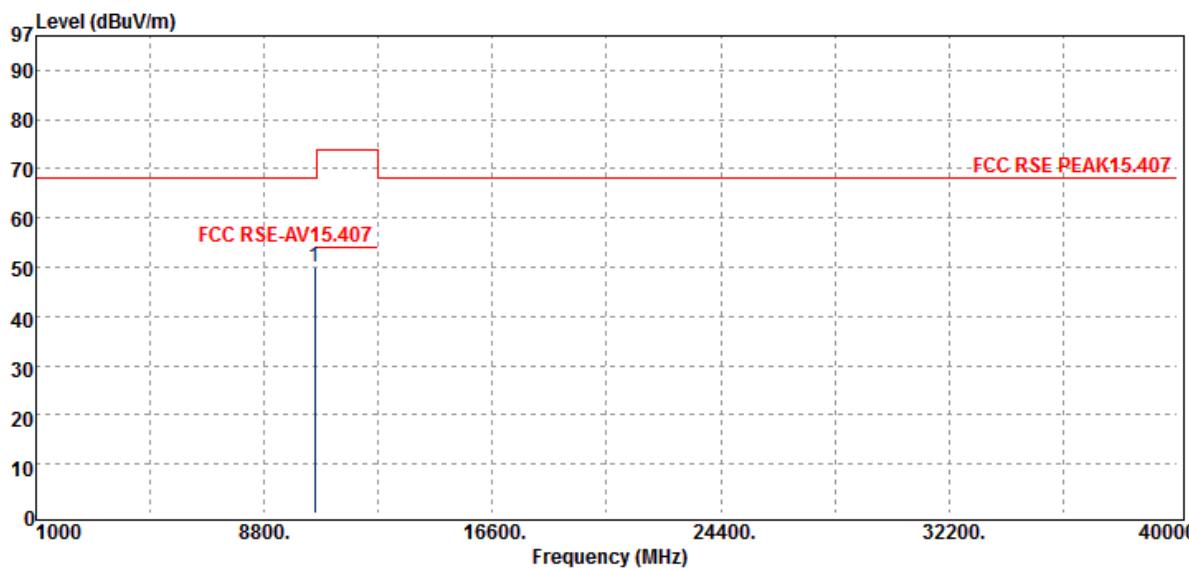
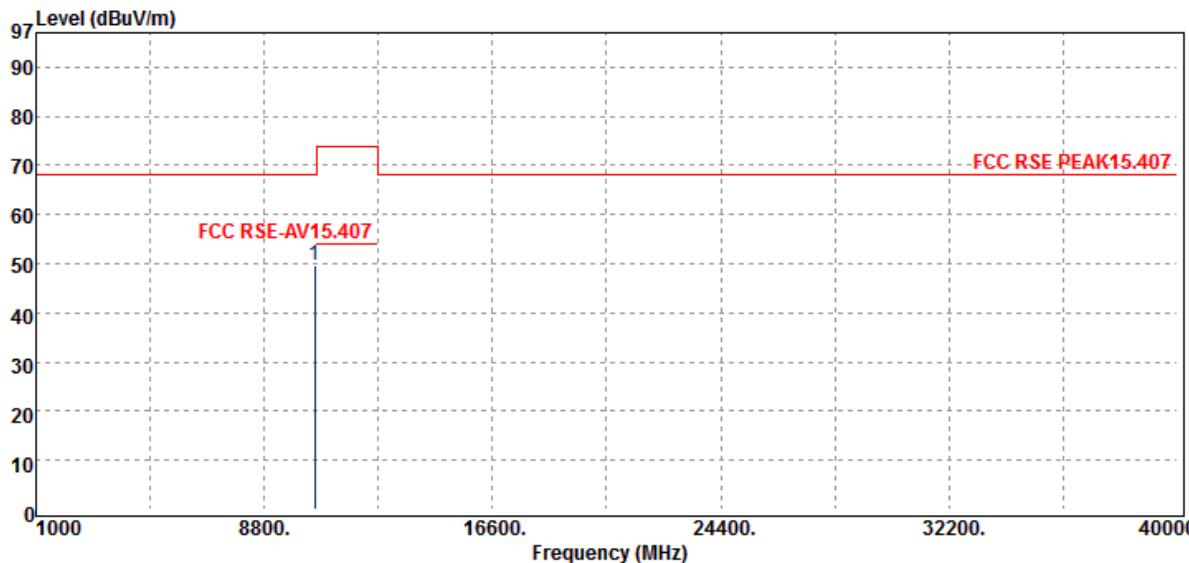
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802.11a 5250-5350MHz

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.	:Ver. / Hor.

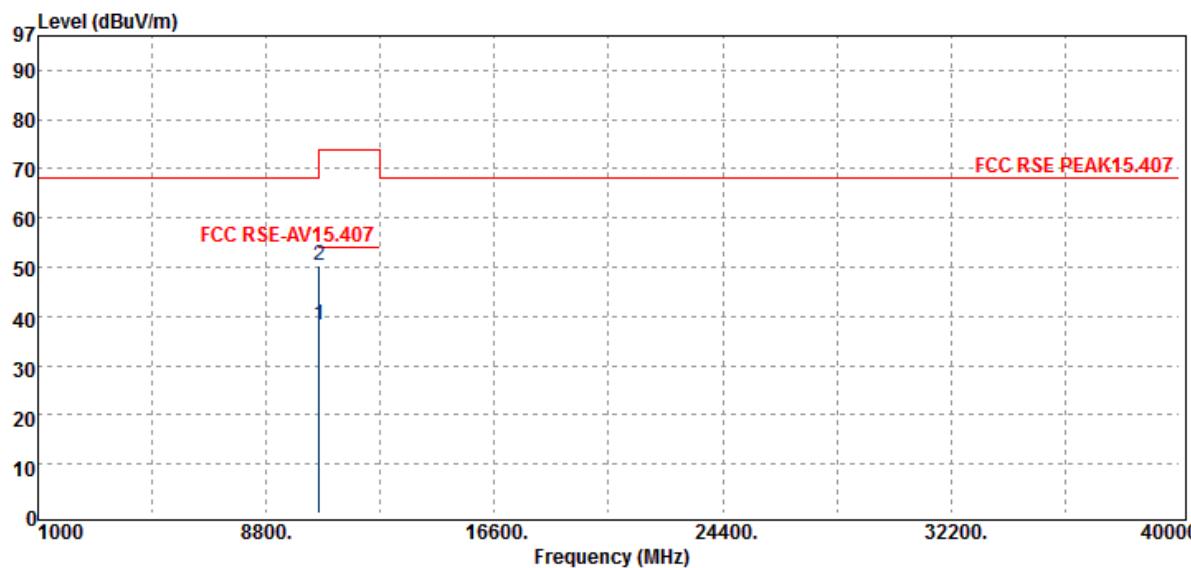
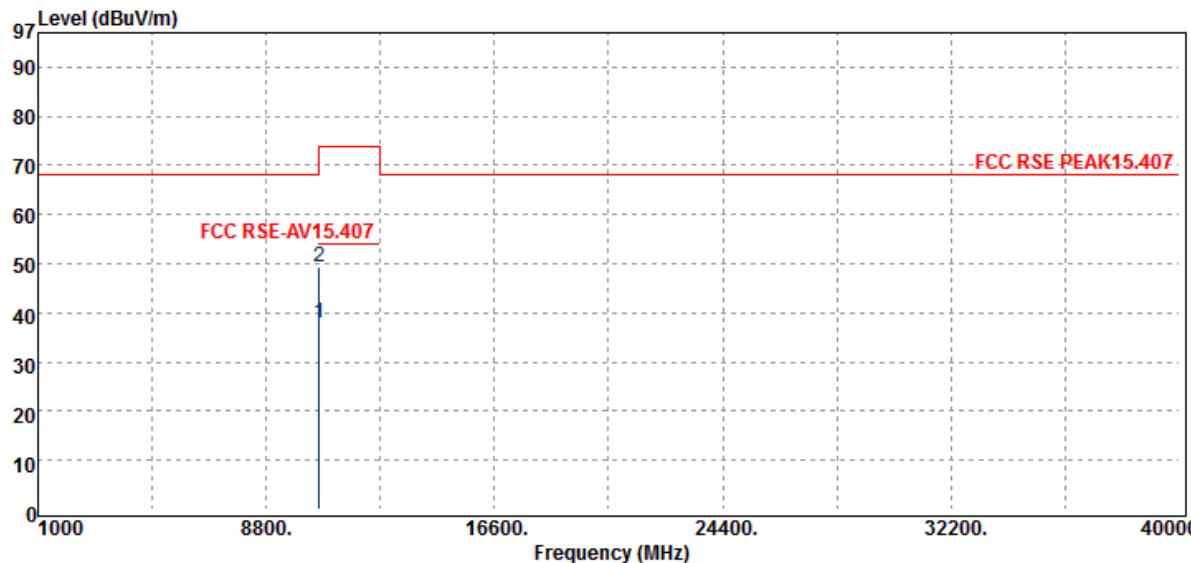


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Operation Band	:802.11 a	Test Date	:2014-11-18
Fundamental Frequency	:5300 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.

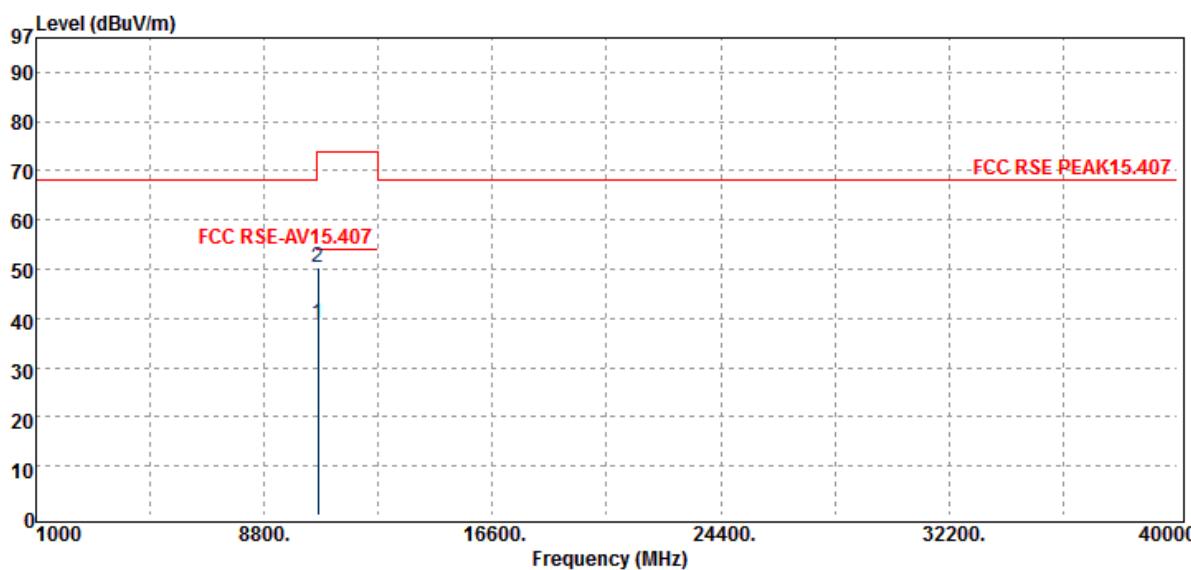
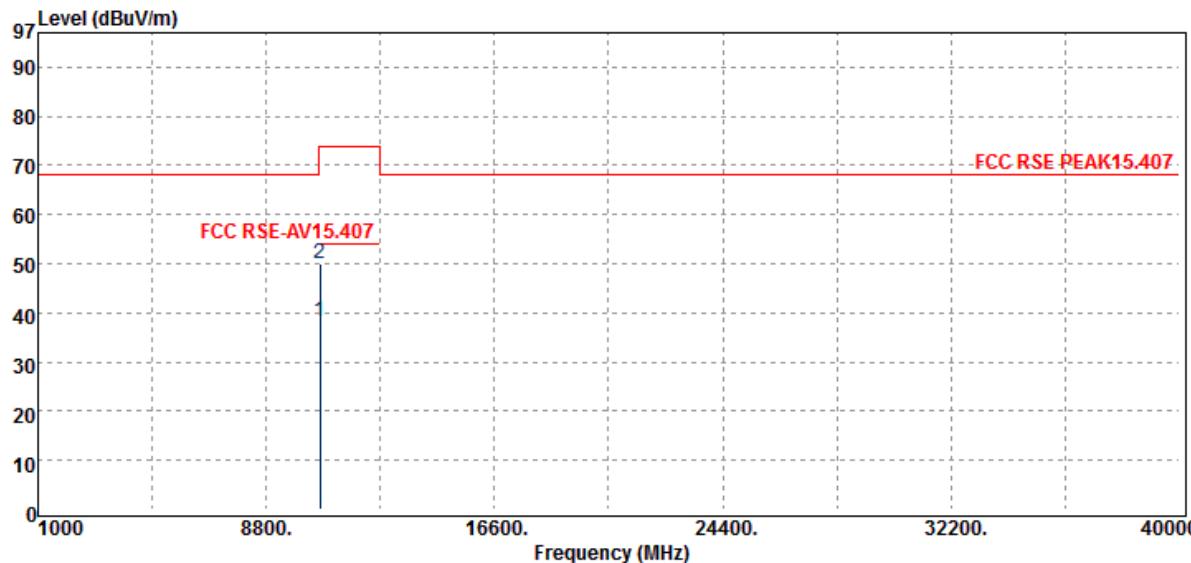


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Operation Band	:802.11 a	Test Date	:2014-11-18
Fundamental Frequency	:5320 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.



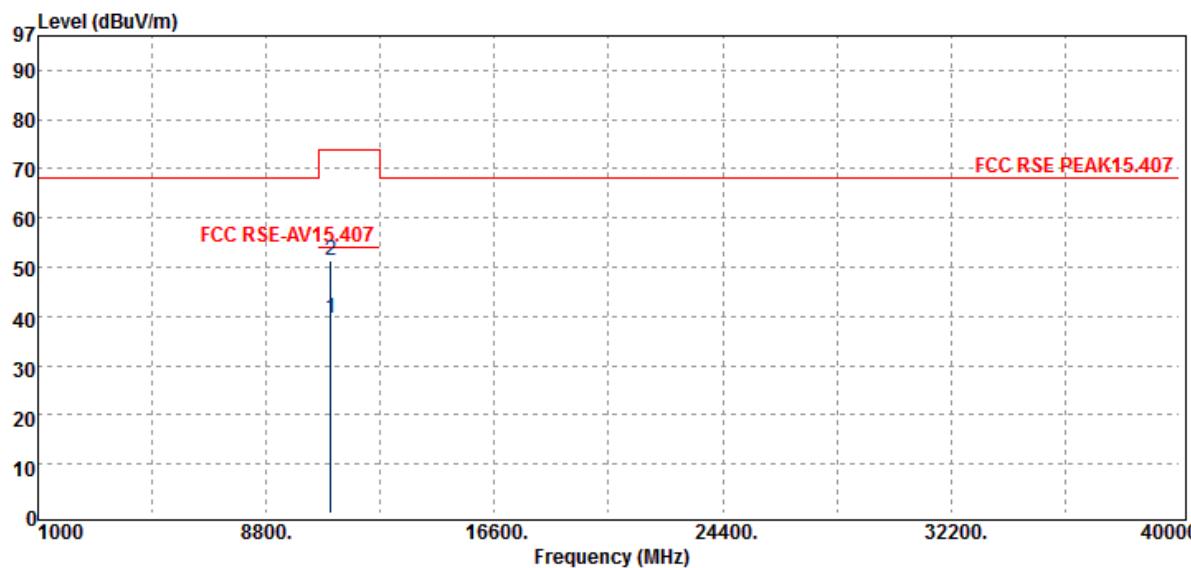
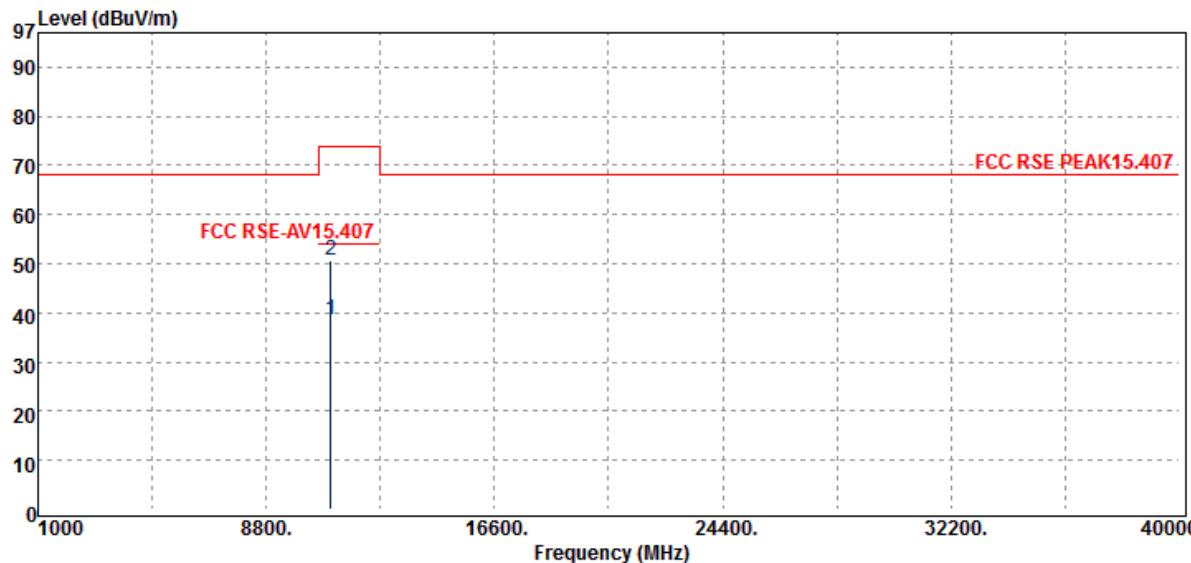
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802.11a 5470-5725MHz

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.	:Ver. / Hor.

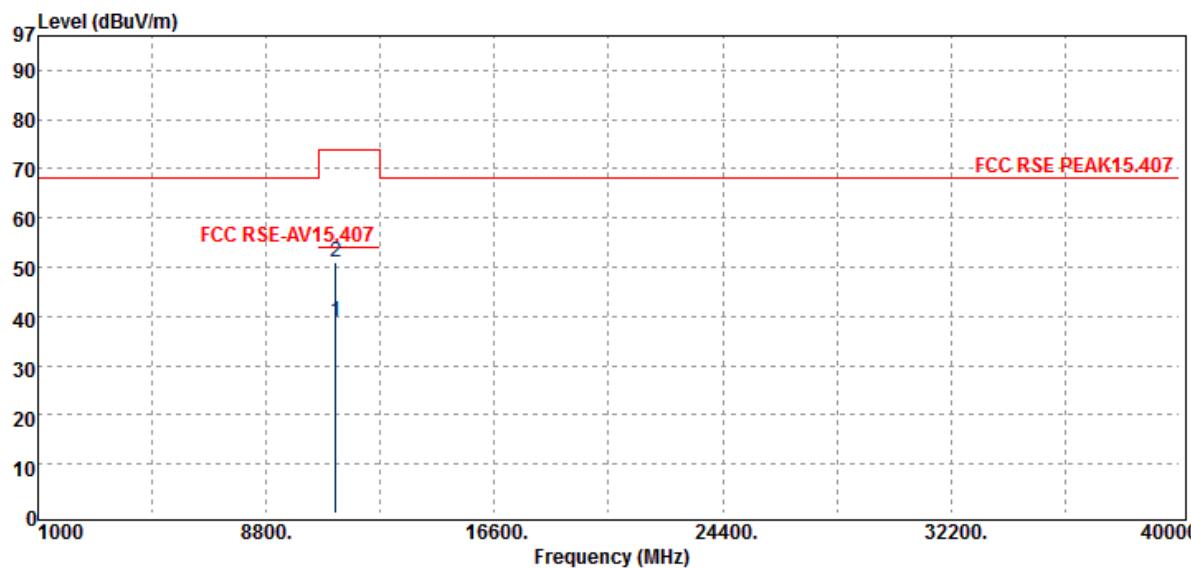
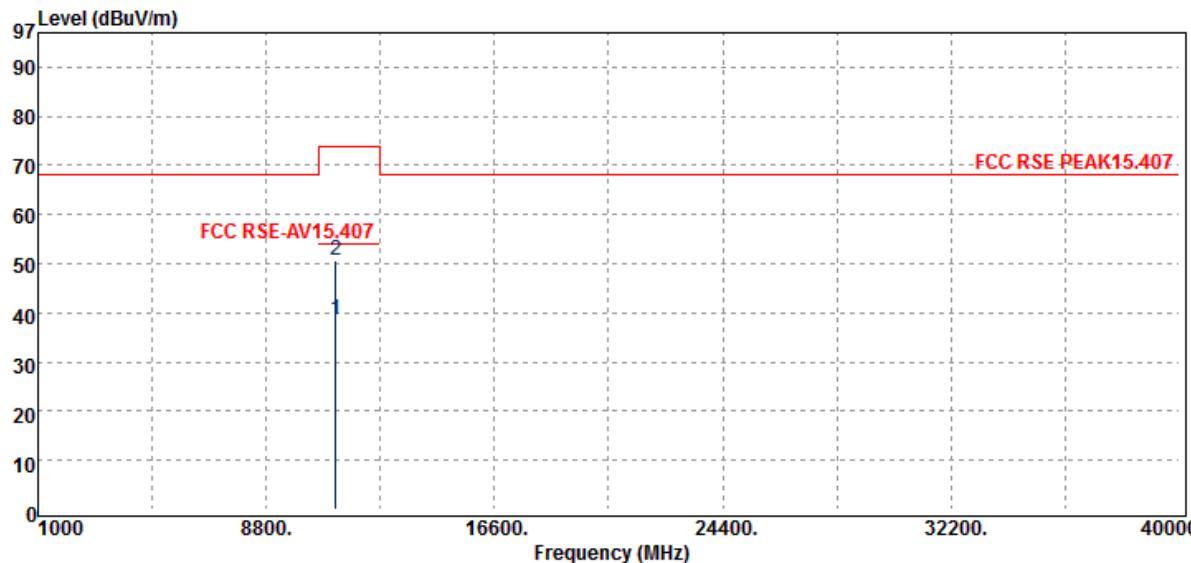


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Operation Band	:802.11 a	Test Date	:2014-11-18
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.

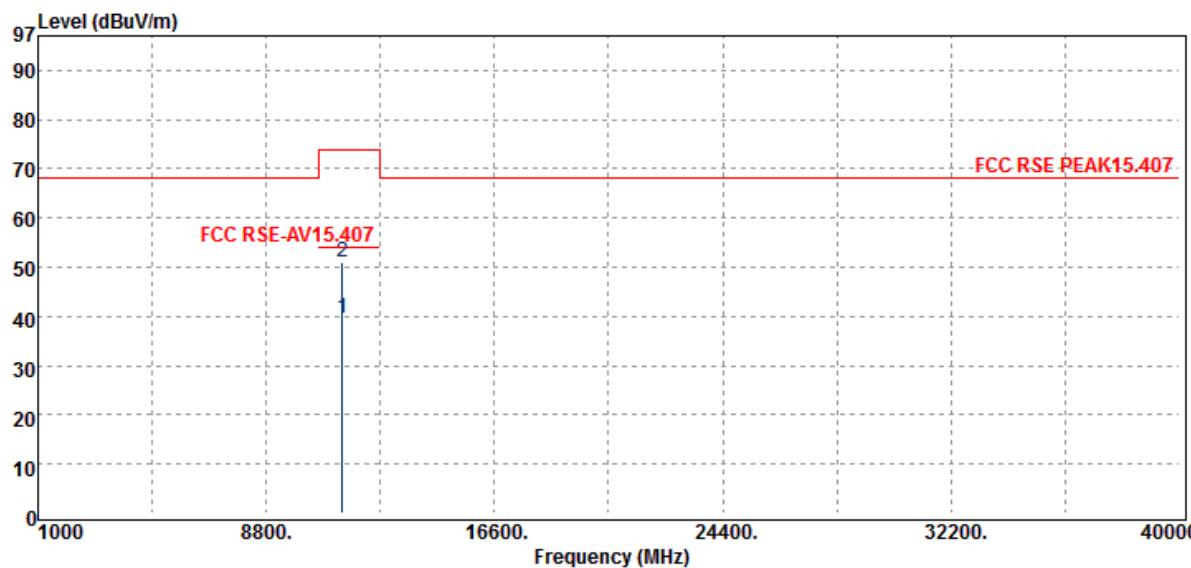
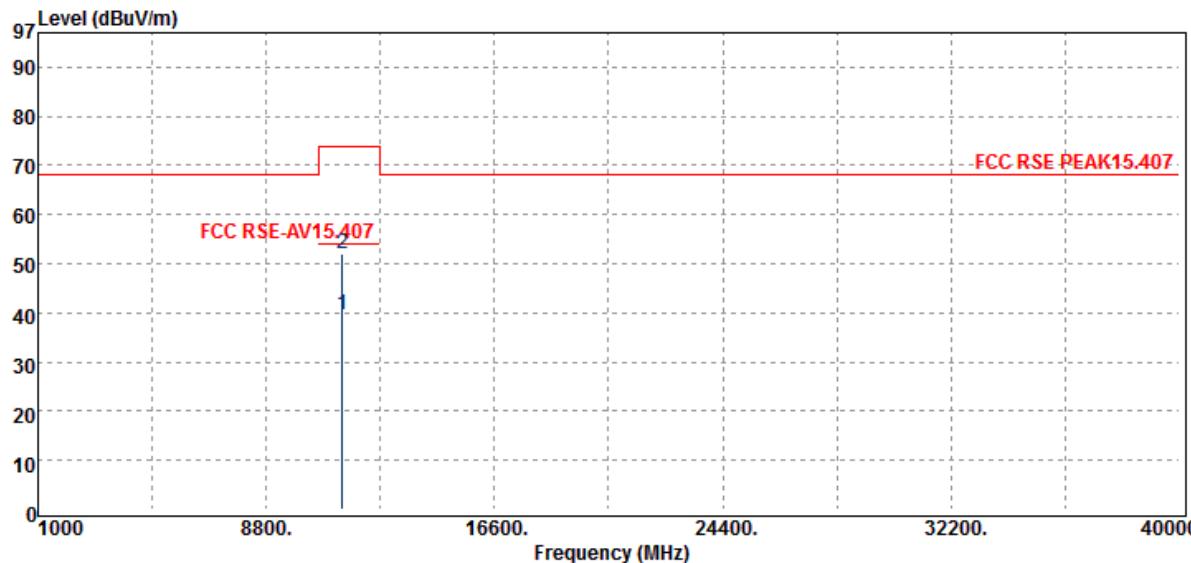


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Operation Band	:802.11 a	Test Date	:2014-11-18
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.



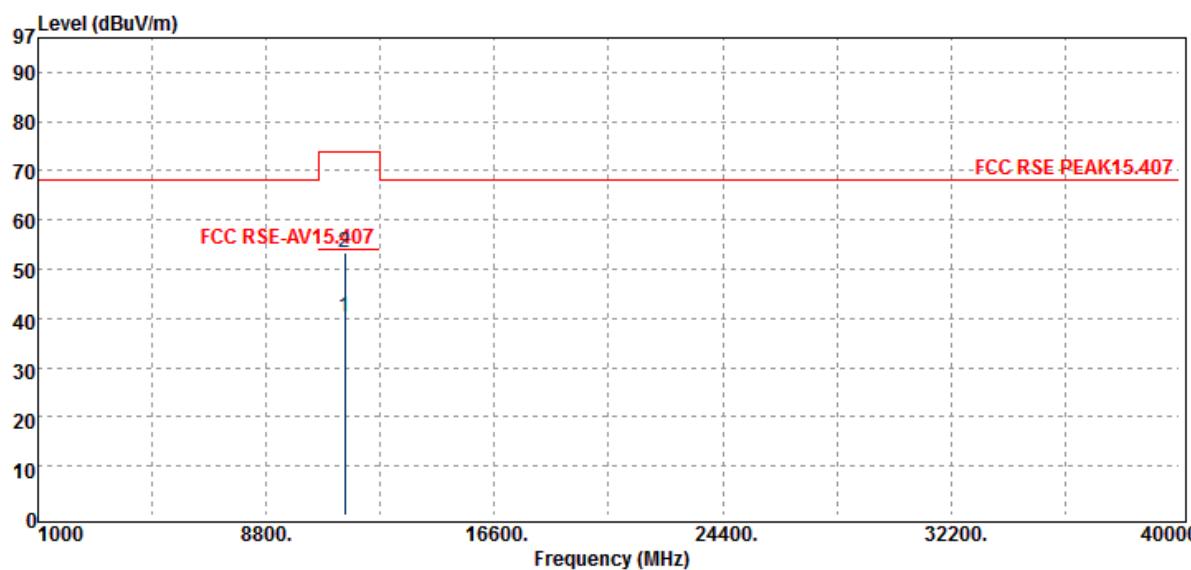
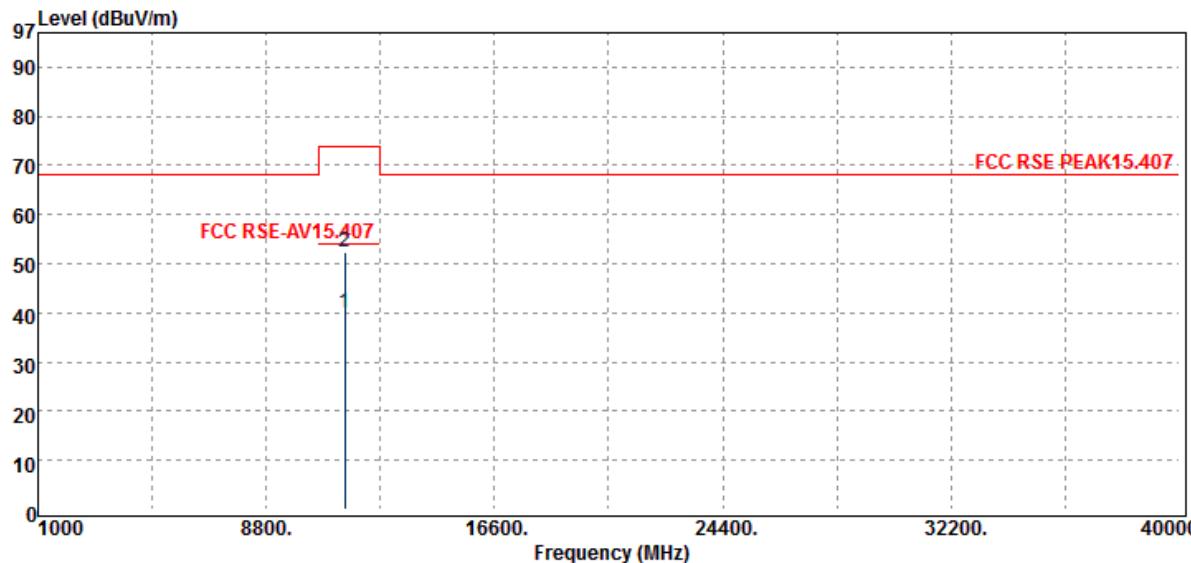
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802.11a 5725-5850MHz

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.

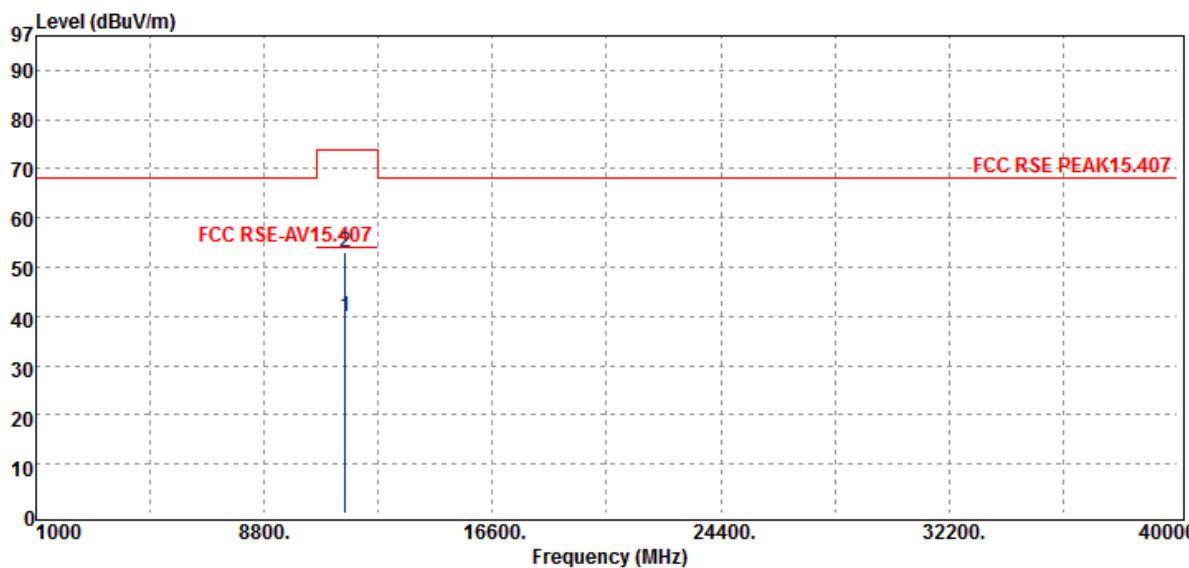
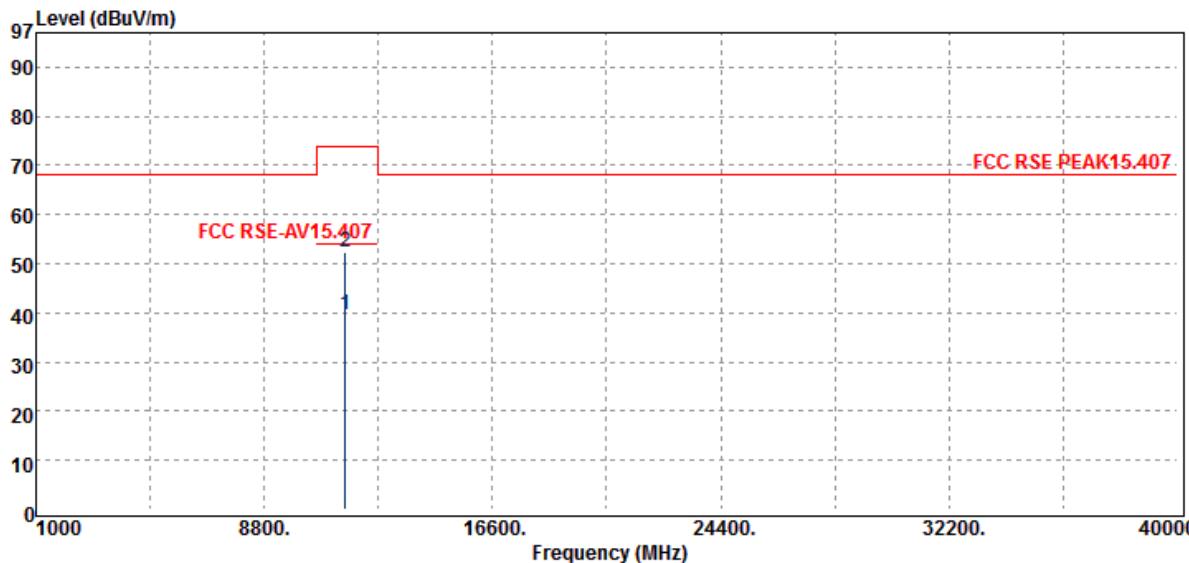


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Operation Band	:802.11 a	Test Date	:2014-11-18
Fundamental Frequency	:5785 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.

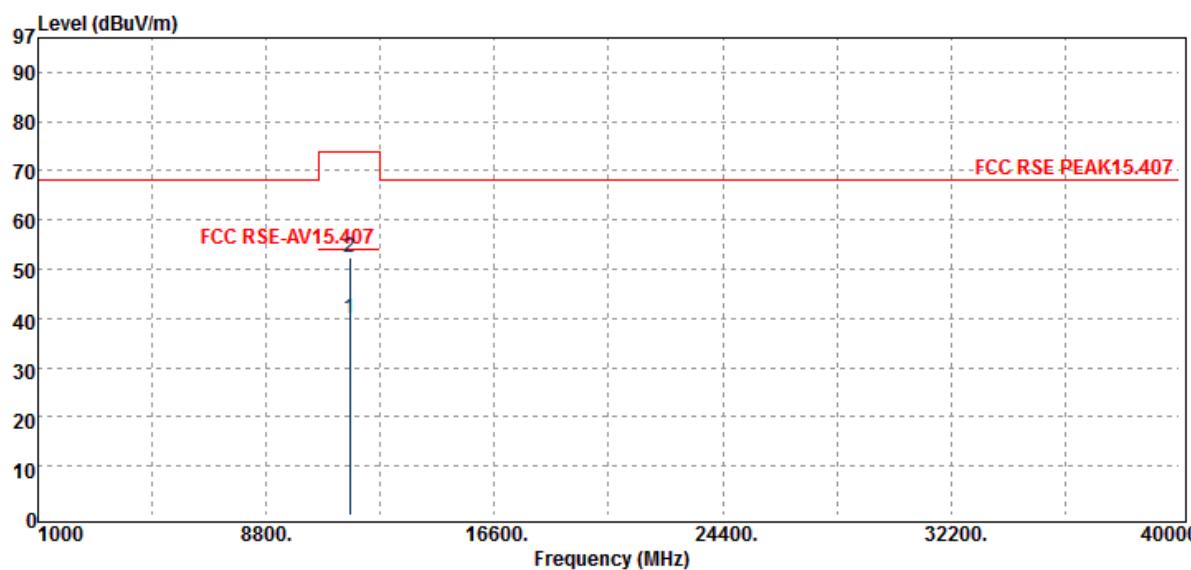
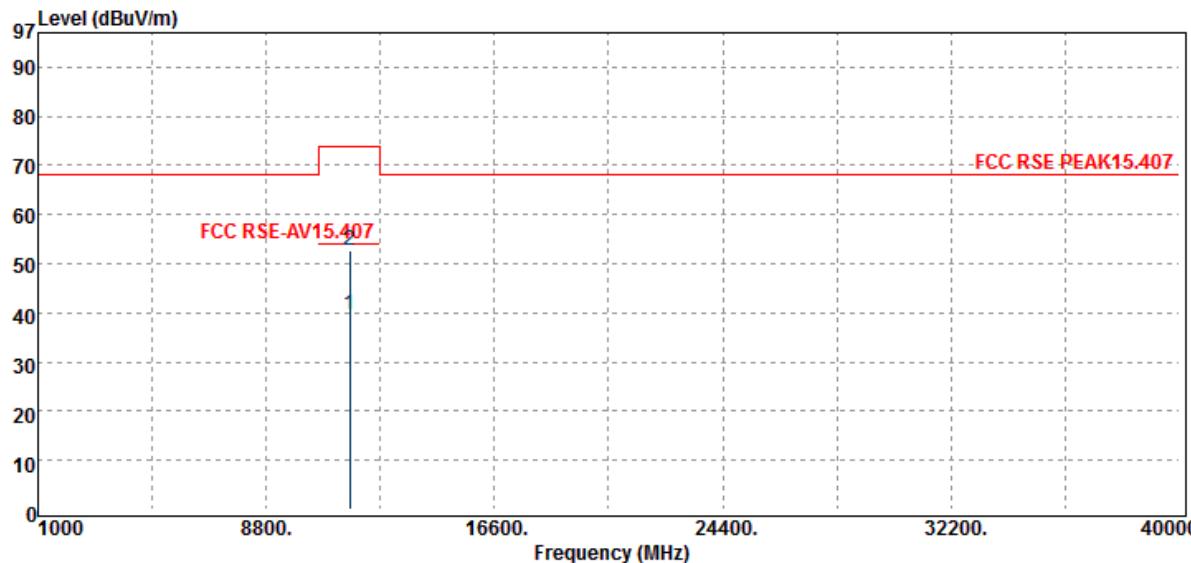


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Operation Band	:802.11 a	Test Date	:2014-11-18
Fundamental Frequency	:5825 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.



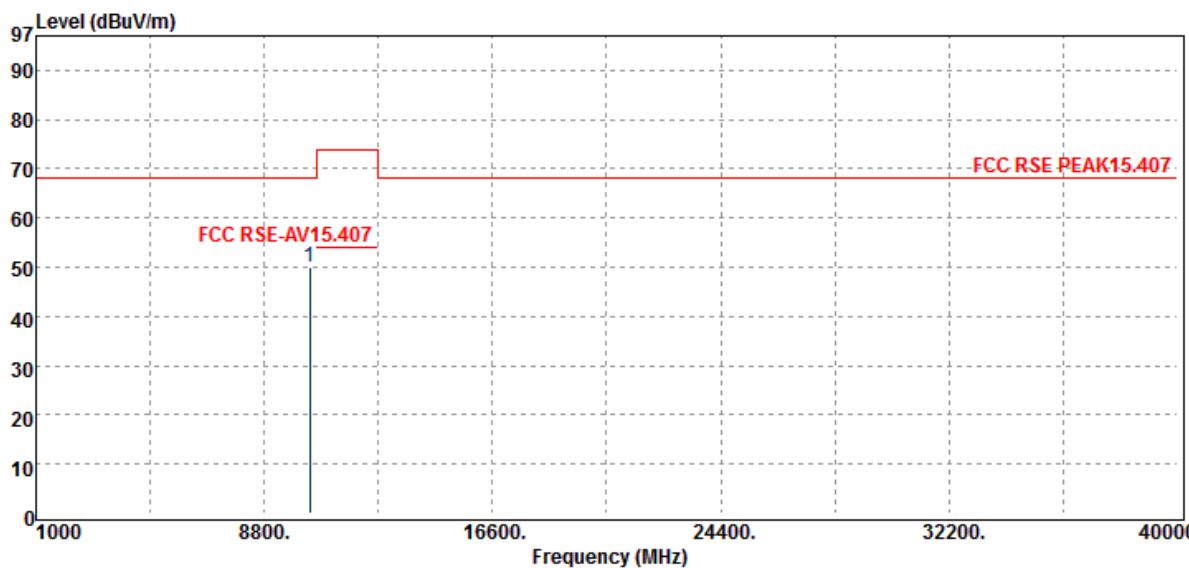
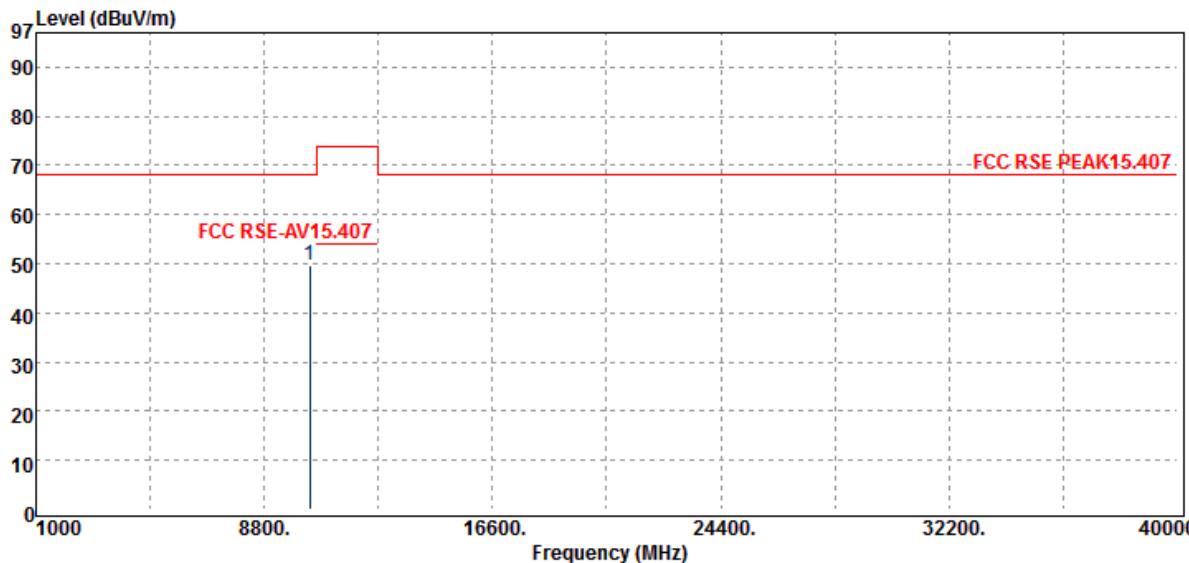
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802.11n_20M 5150-5250MHz

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.	:Ver. / Hor.

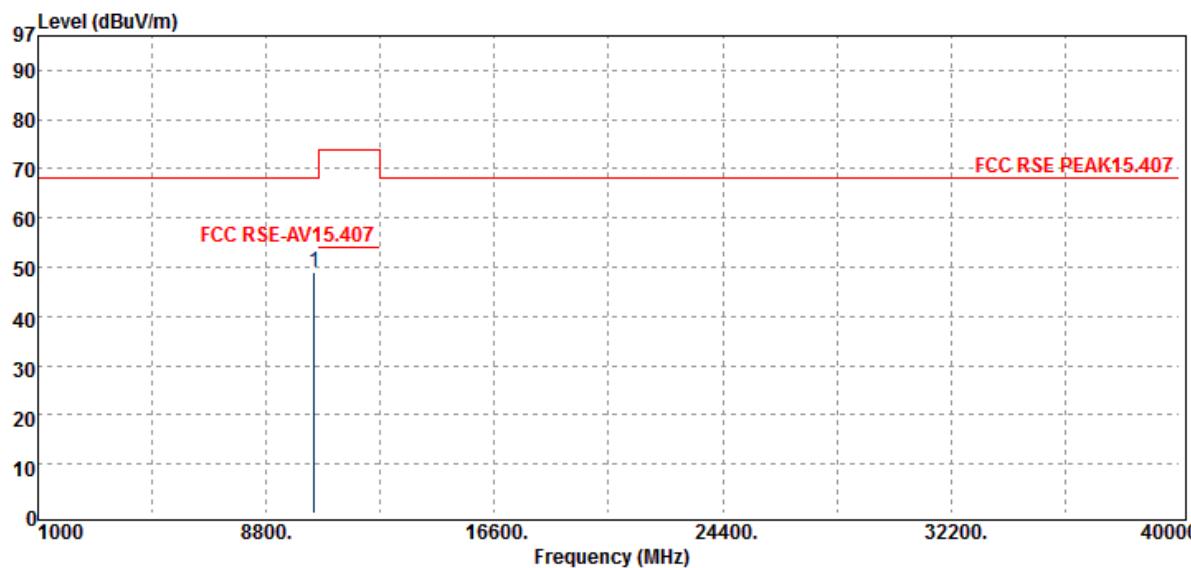
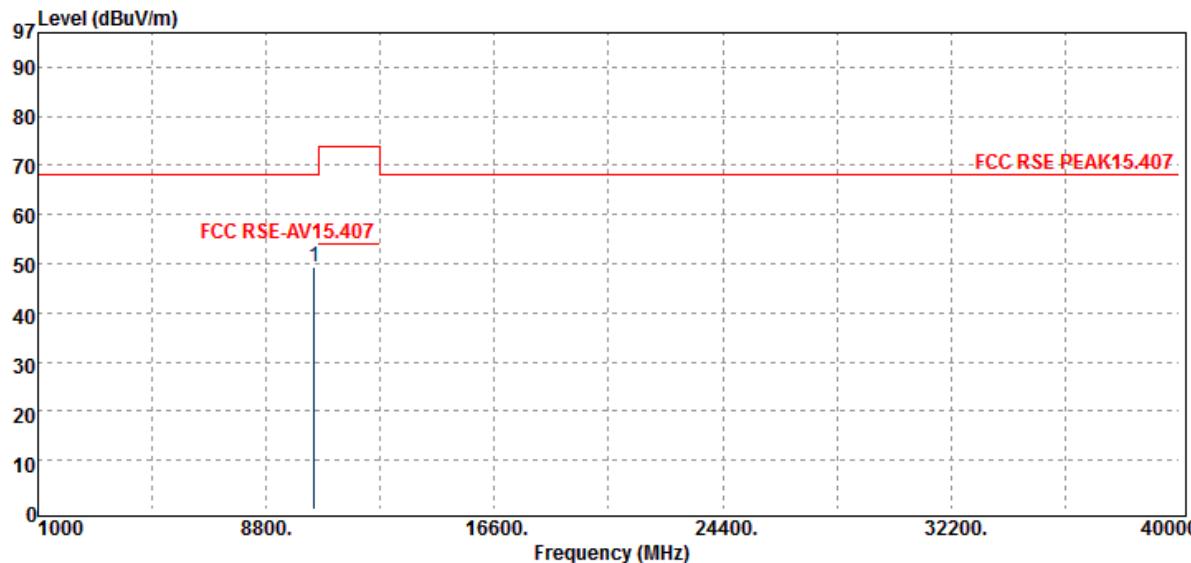


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Operation Band	:802.11 n20M	Test Date	:2014-11-18
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.

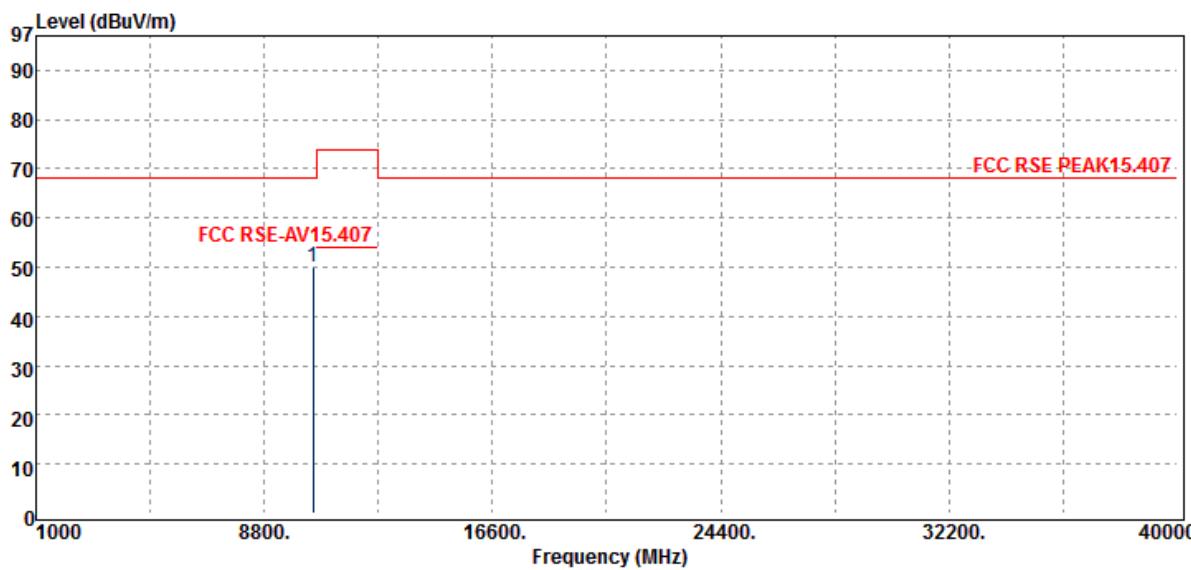
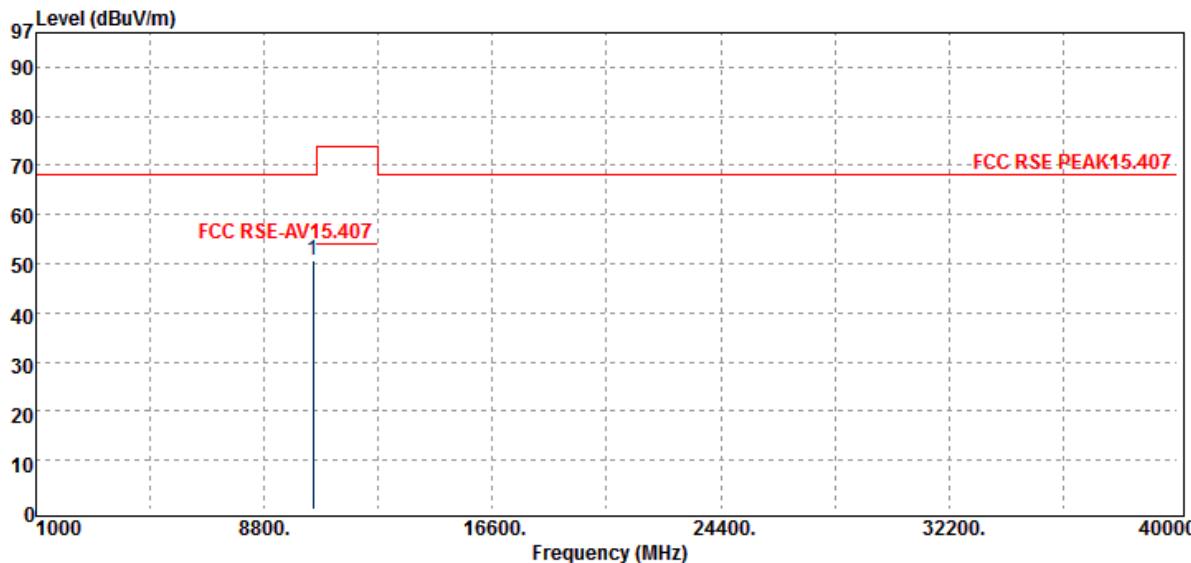


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Operation Band	:802.11 n20M	Test Date	:2014-11-18
Fundamental Frequency	:5240 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.



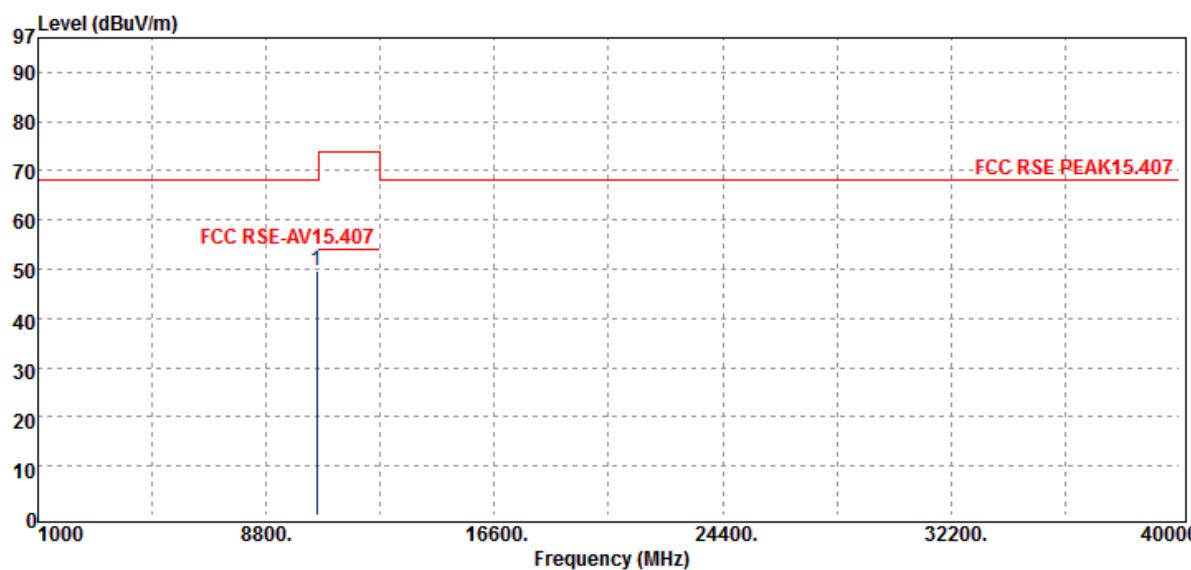
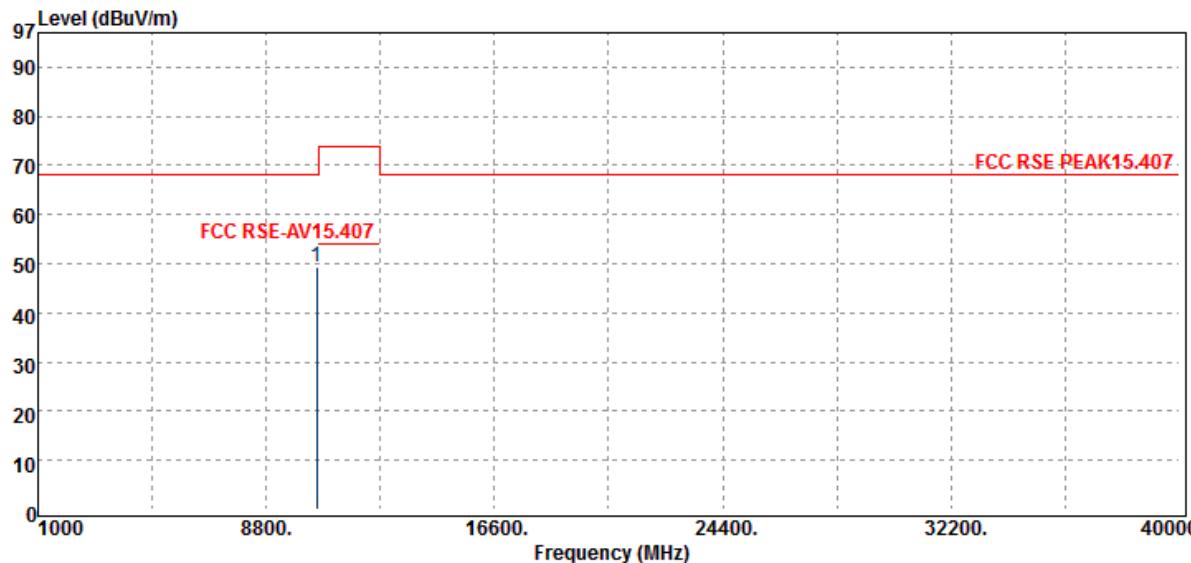
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802.11n_20M 5250-5350MHz

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.	:Ver. / Hor.

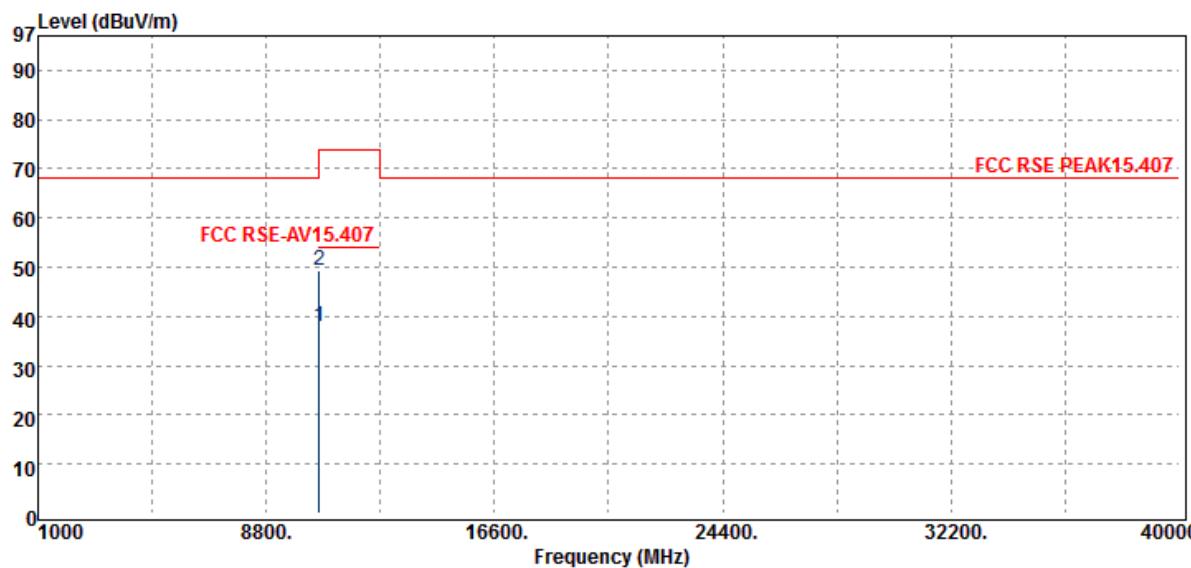
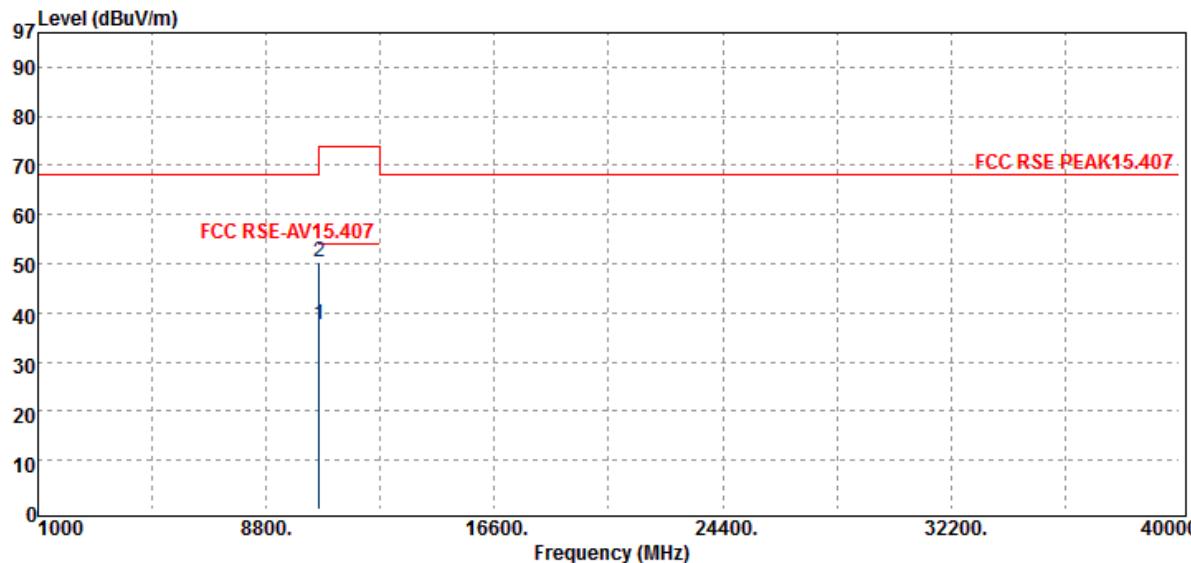


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Operation Band	:802.11 n20M	Test Date	:2014-11-18
Fundamental Frequency	:5300 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.

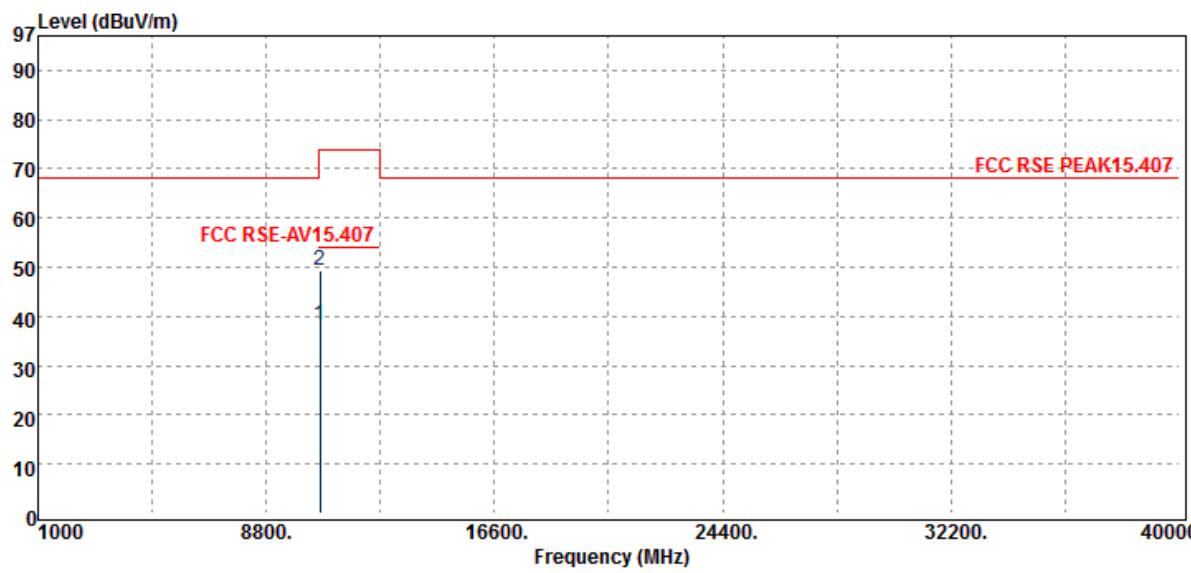
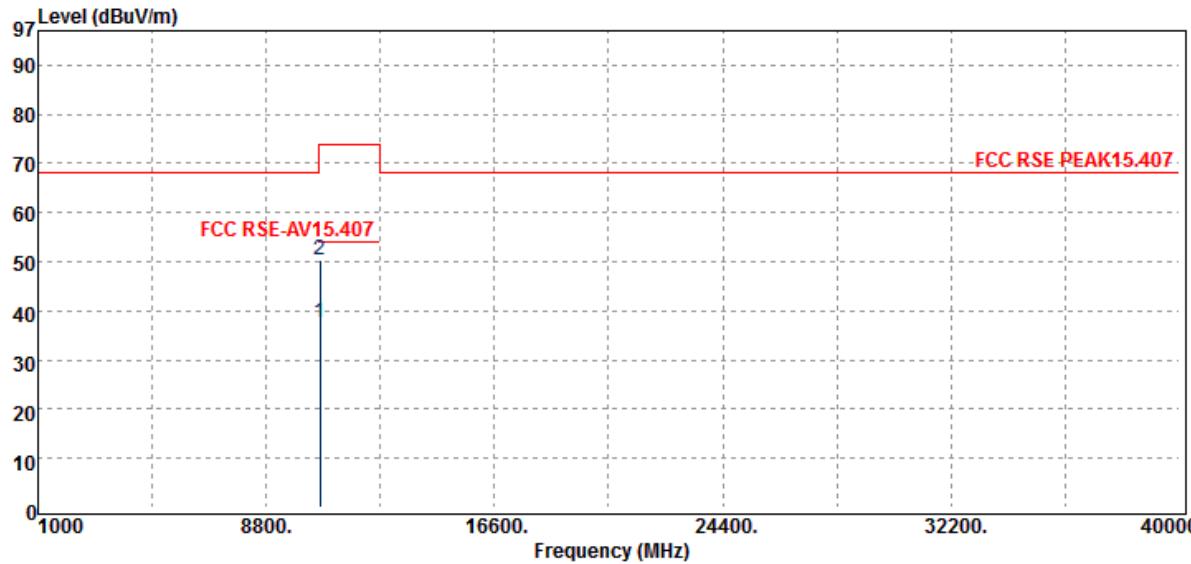


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Operation Band	:802.11 n20M	Test Date	:2014-11-18
Fundamental Frequency	:5320 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.



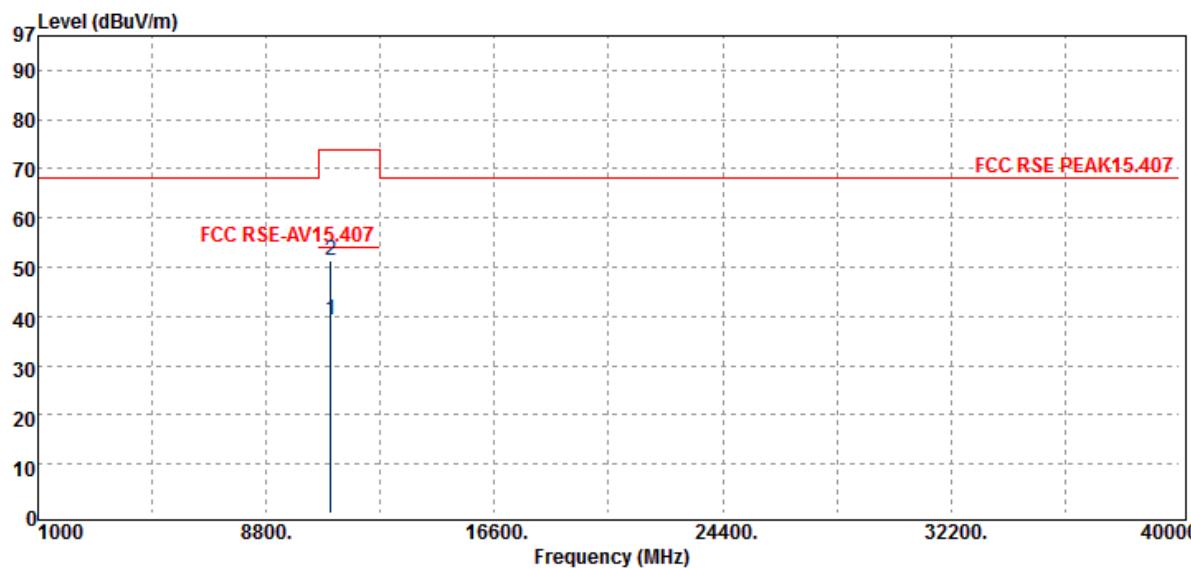
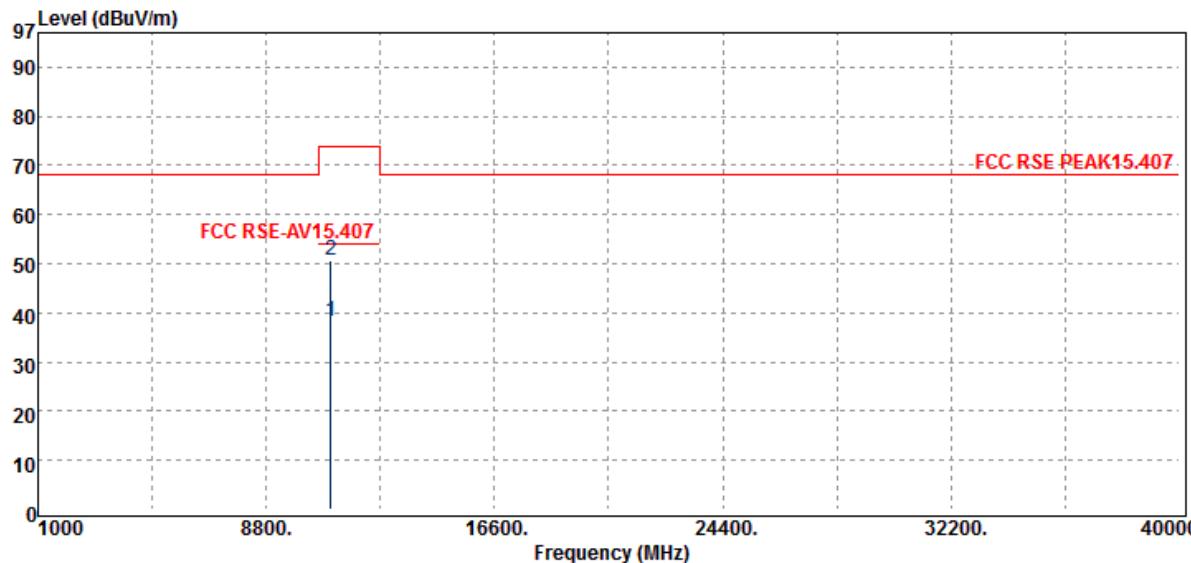
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802.11n_20M 5470-5725MHz

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.	:Ver. / Hor.

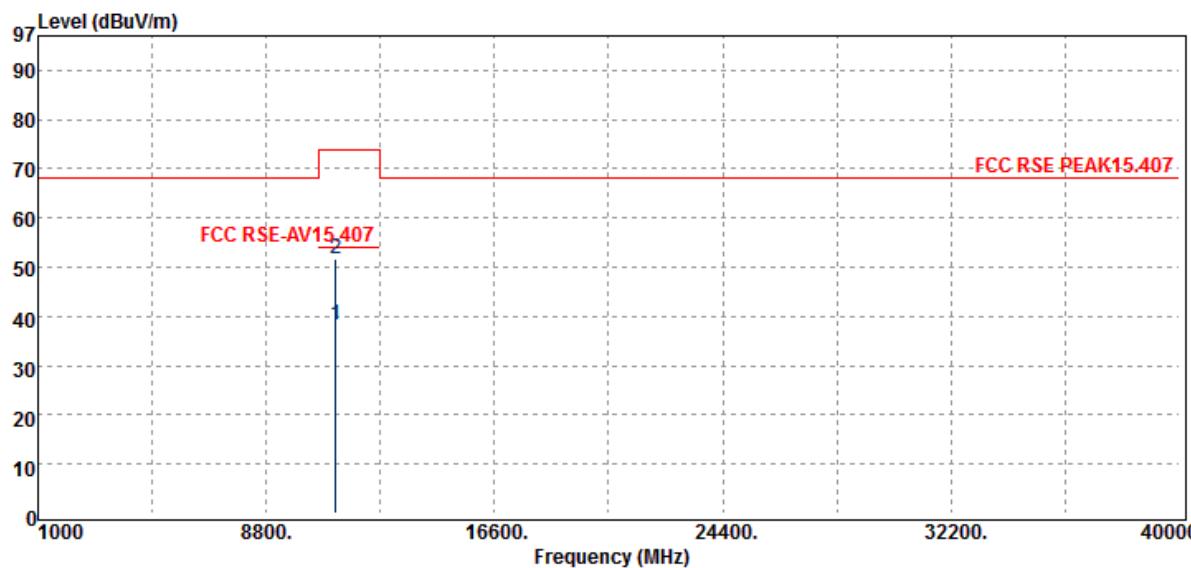
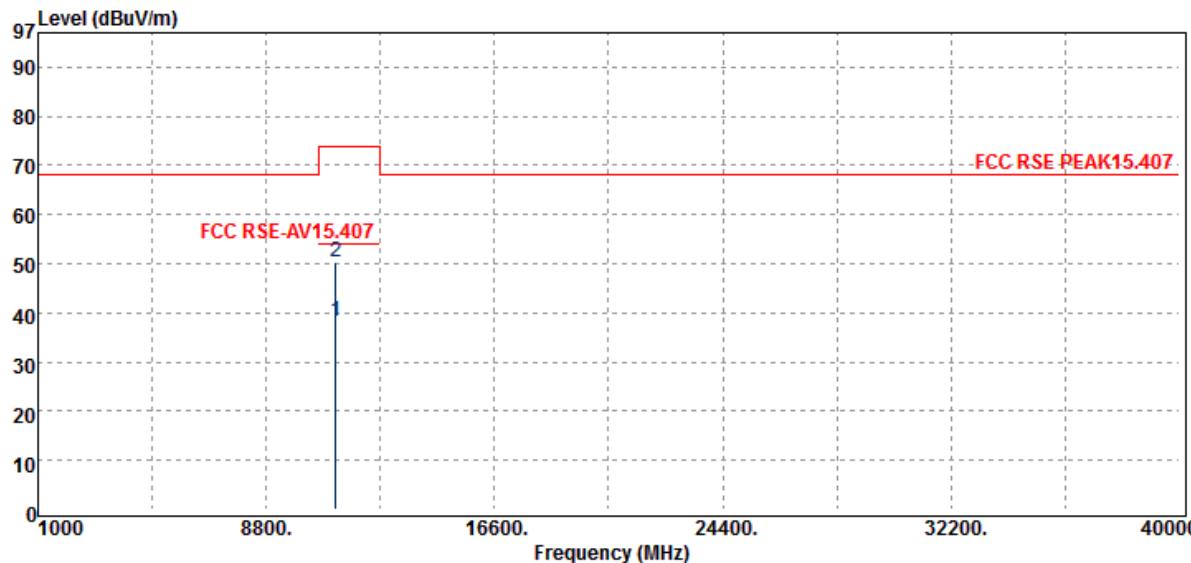


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Operation Band	:802.11 n20M	Test Date	:2014-11-18
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.

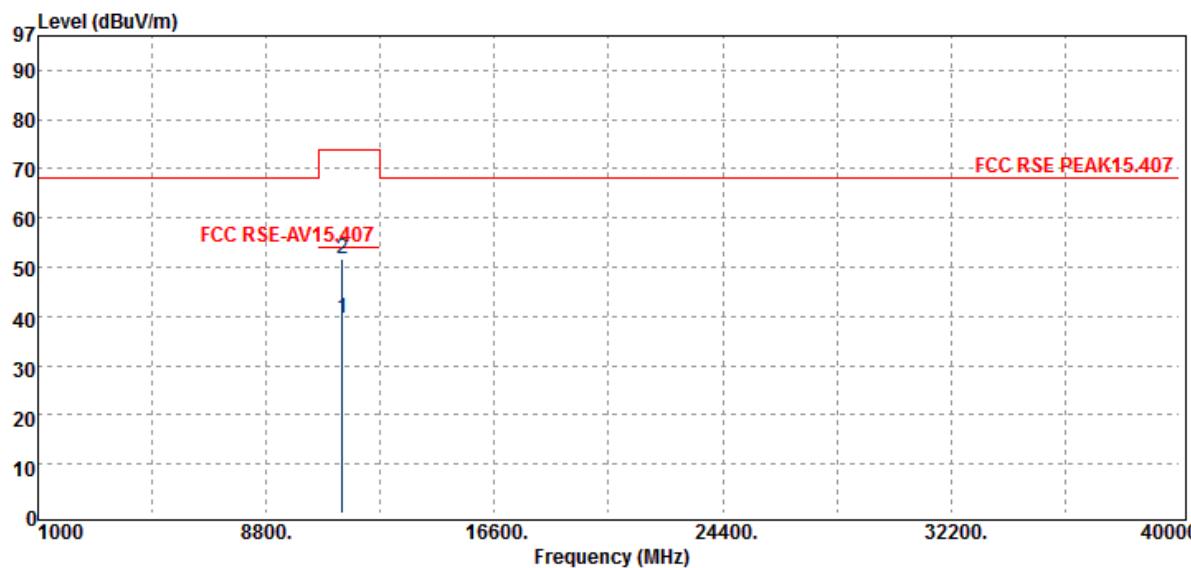
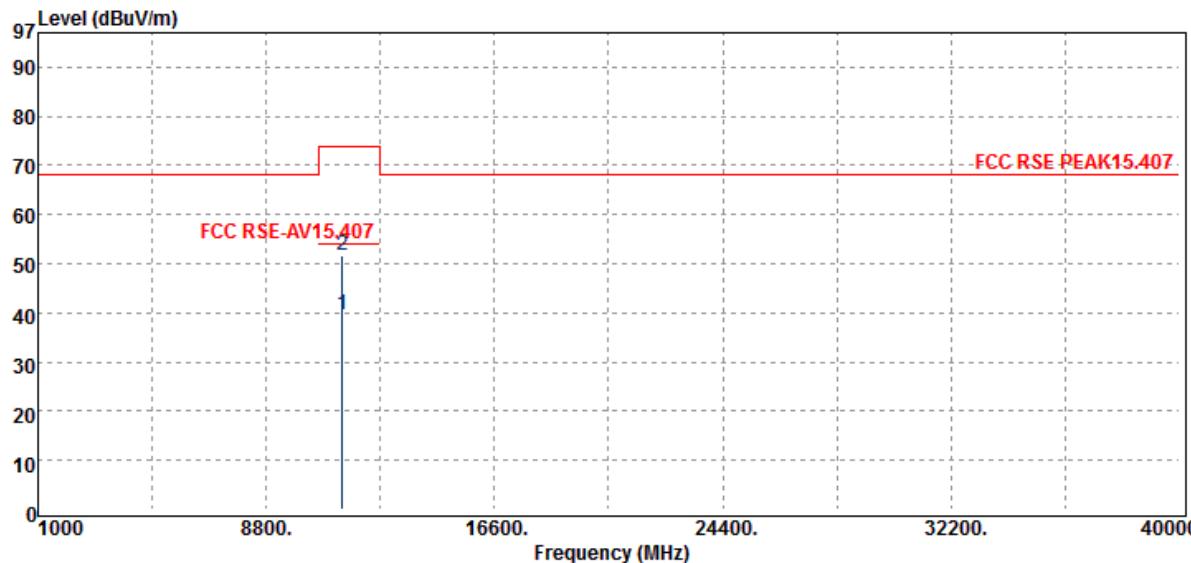


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Operation Band	:802.11 n20M	Test Date	:2014-11-18
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.



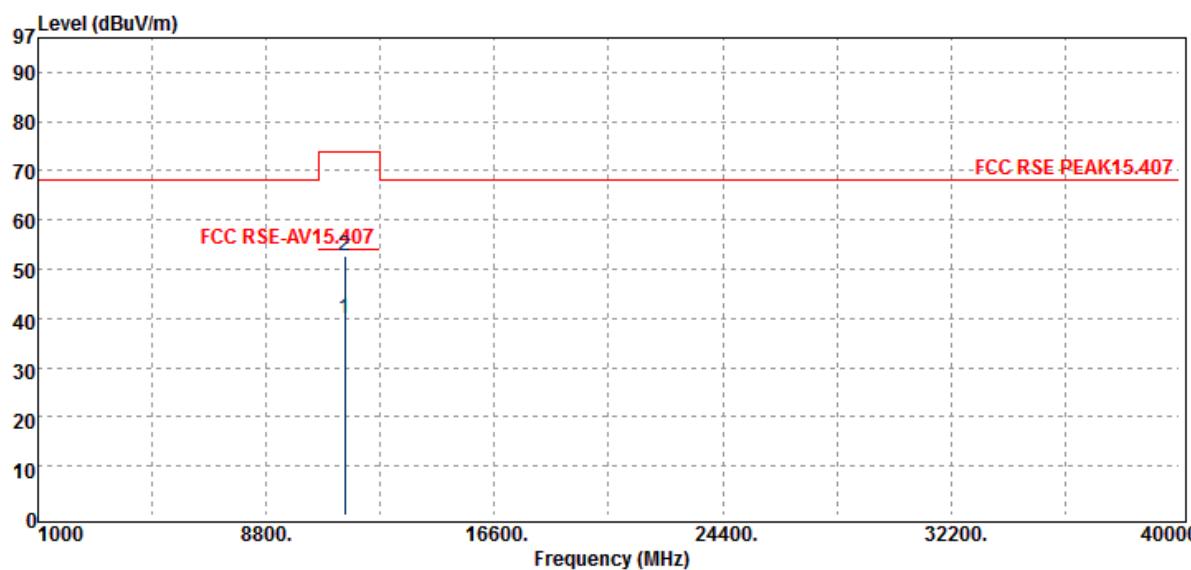
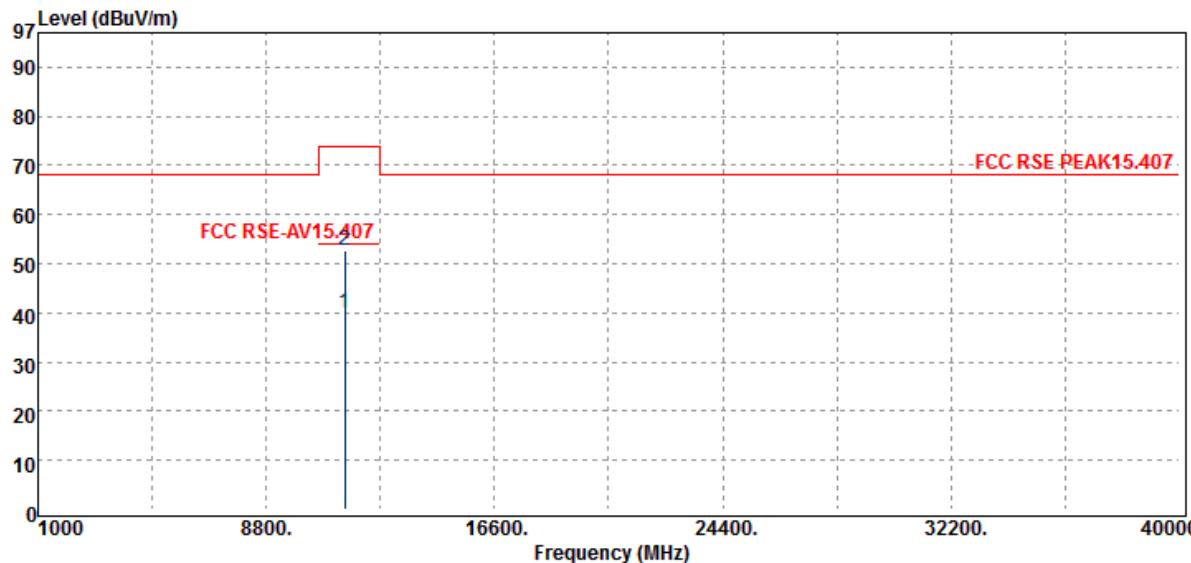
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802.11n_20M 5725-5850MHz

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.	:Ver. / Hor.

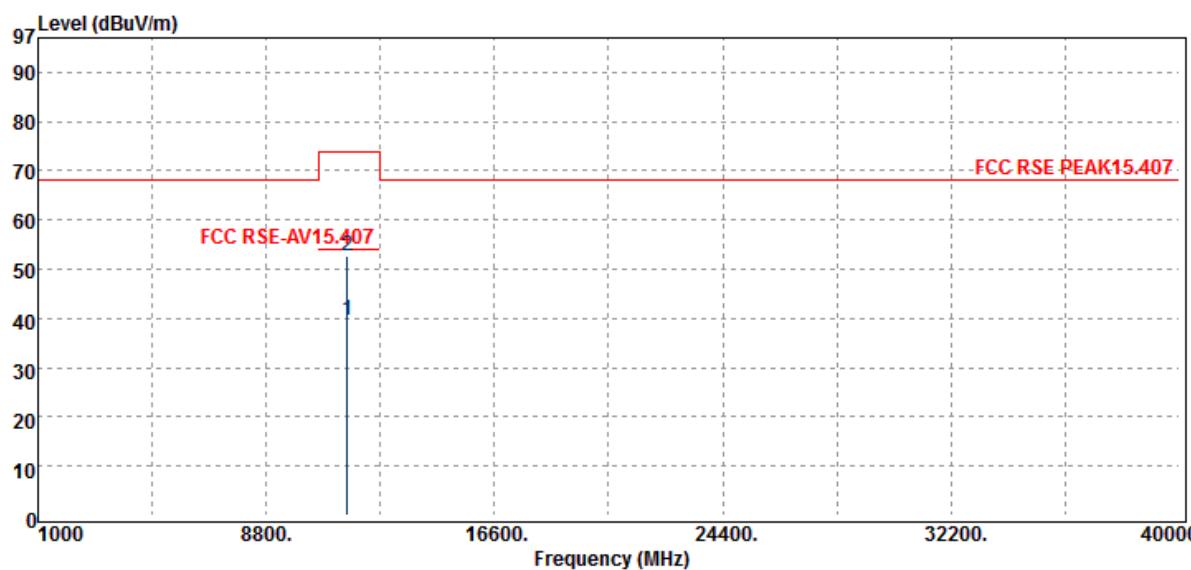
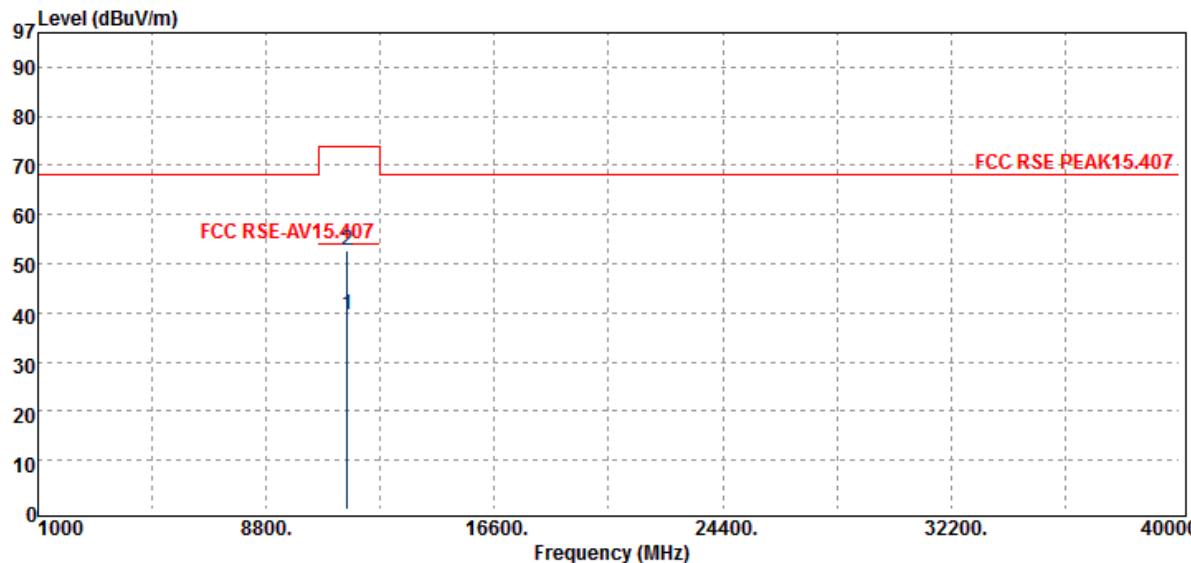


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Operation Band	:802.11 n20M	Test Date	:2014-11-18
Fundamental Frequency	:5785 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.

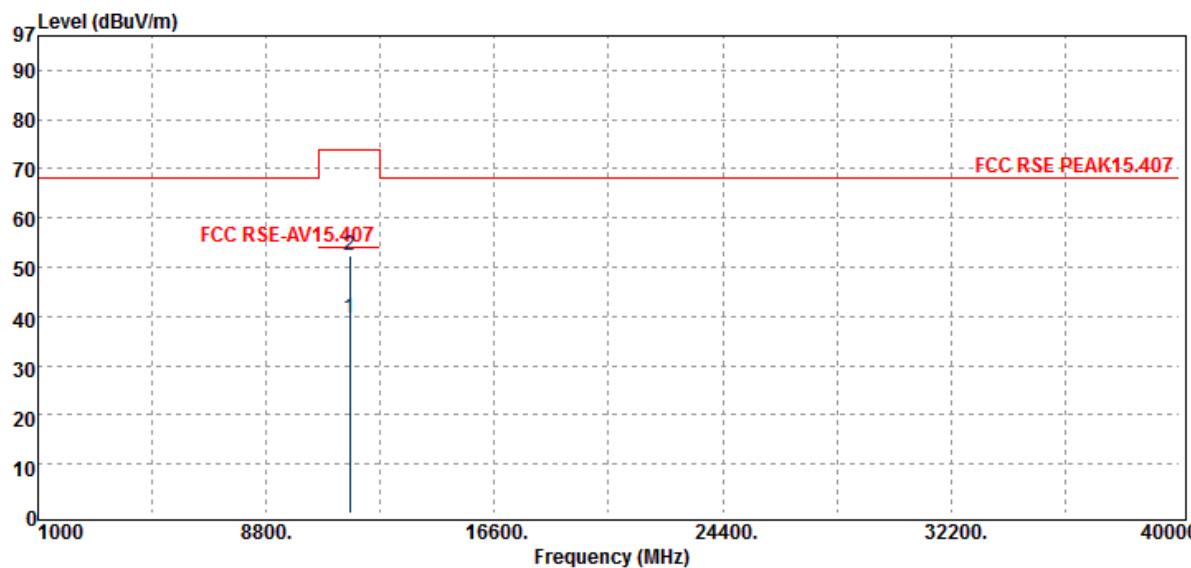
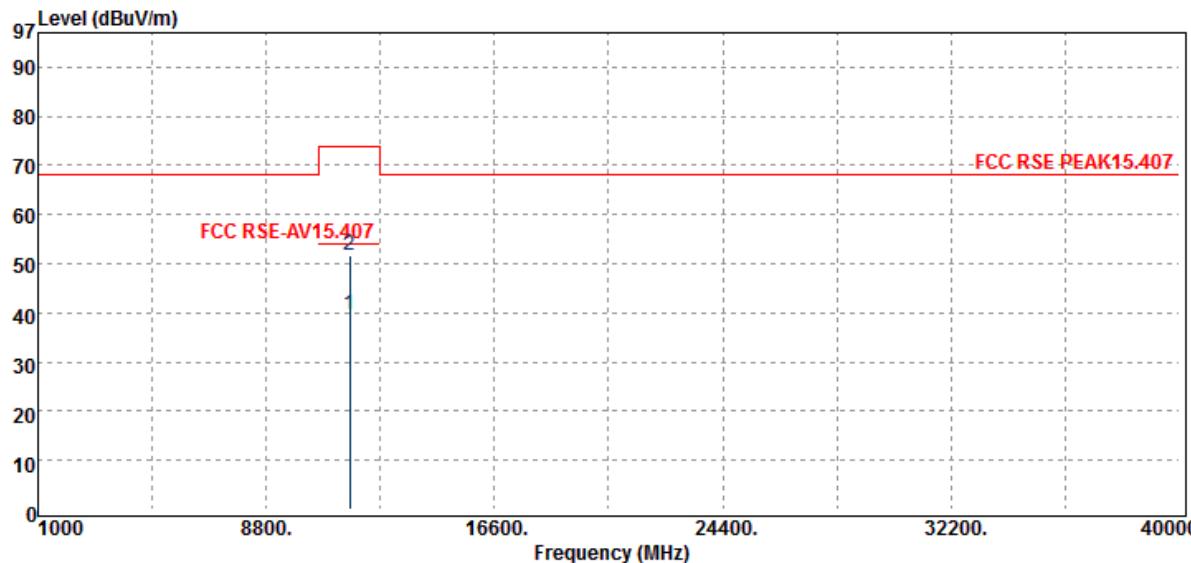


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Operation Band	:802.11 n20M	Test Date	:2014-11-18
Fundamental Frequency	:5825 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.



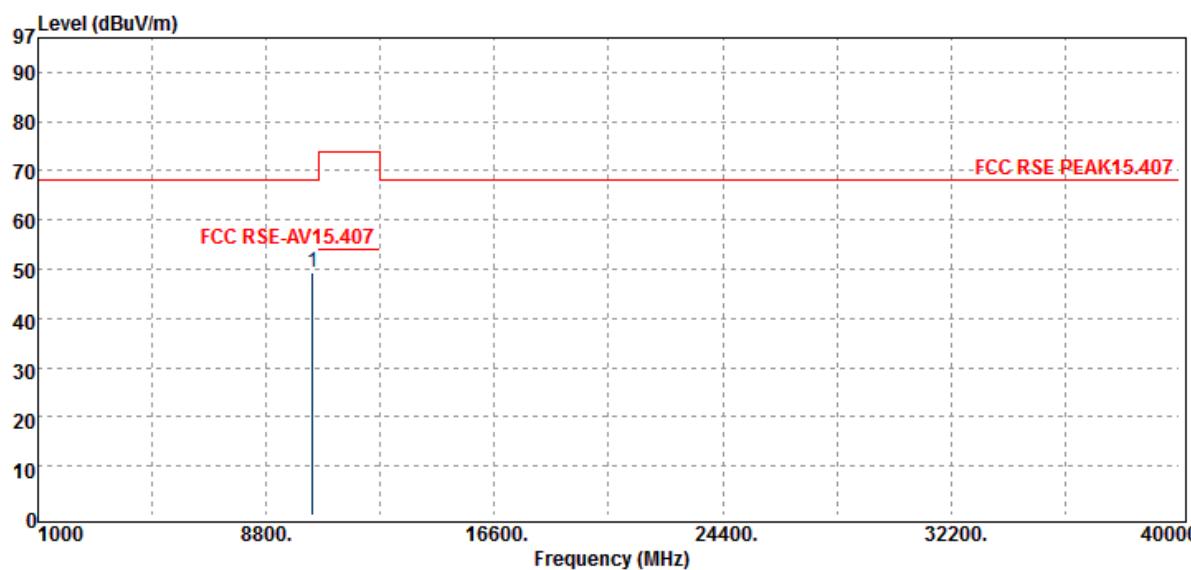
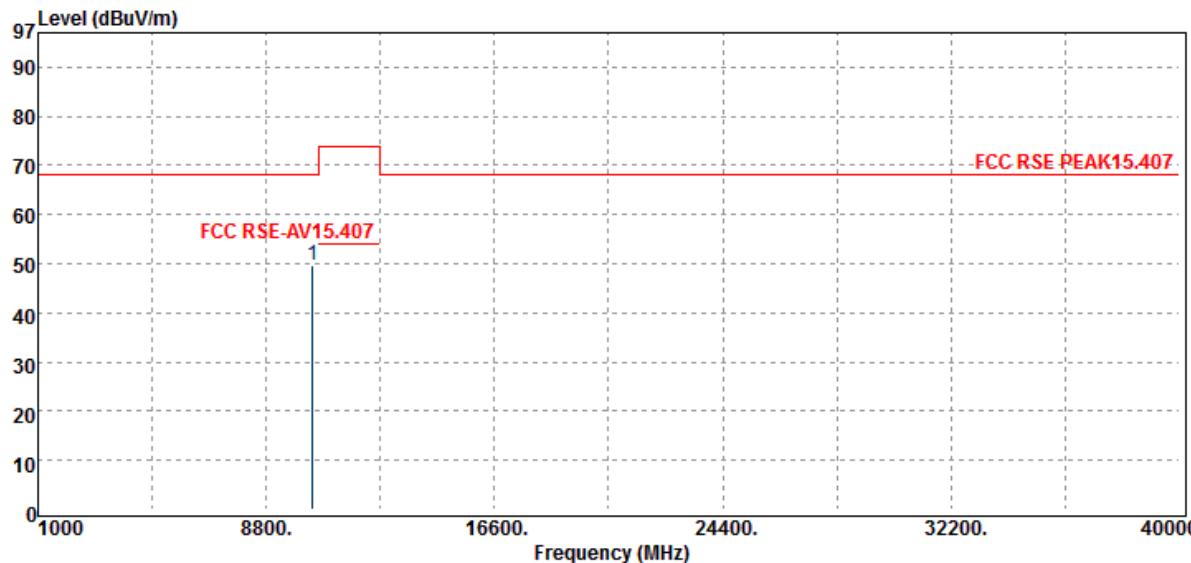
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802.11n_40M 5150-5250MHz

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.	:Ver. / Hor.

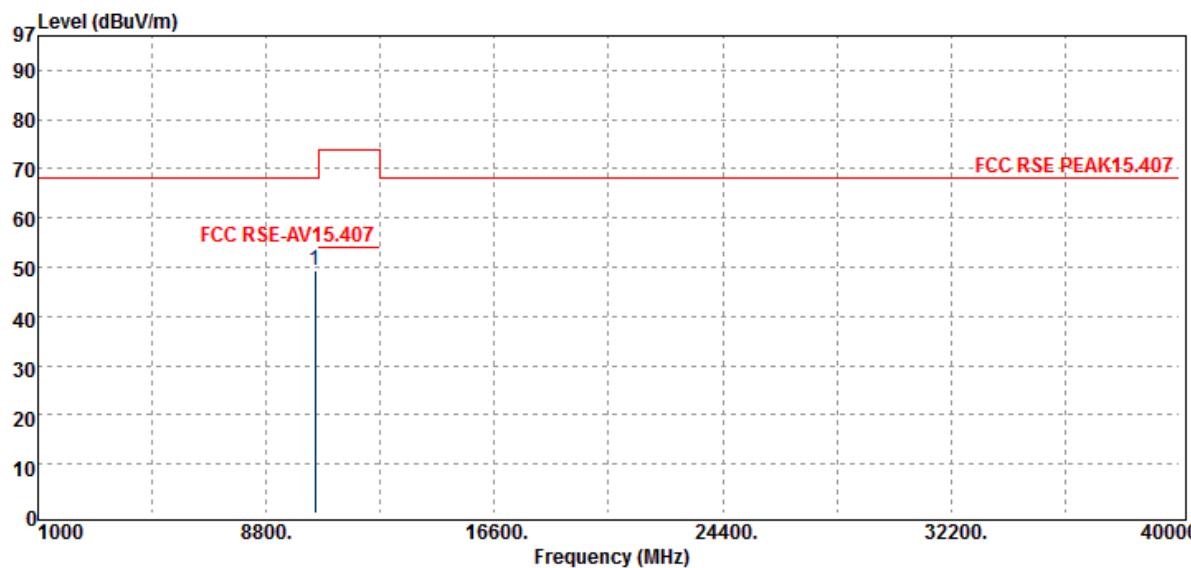
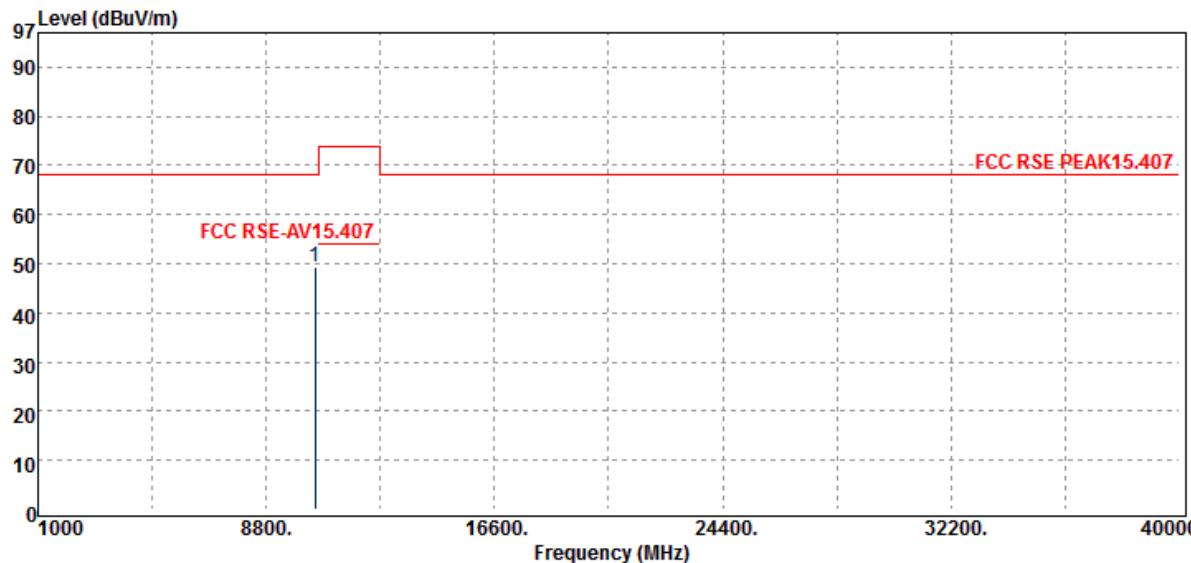


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Operation Band	:802.11 n40M	Test Date	:2014-11-18
Fundamental Frequency	:5230 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.



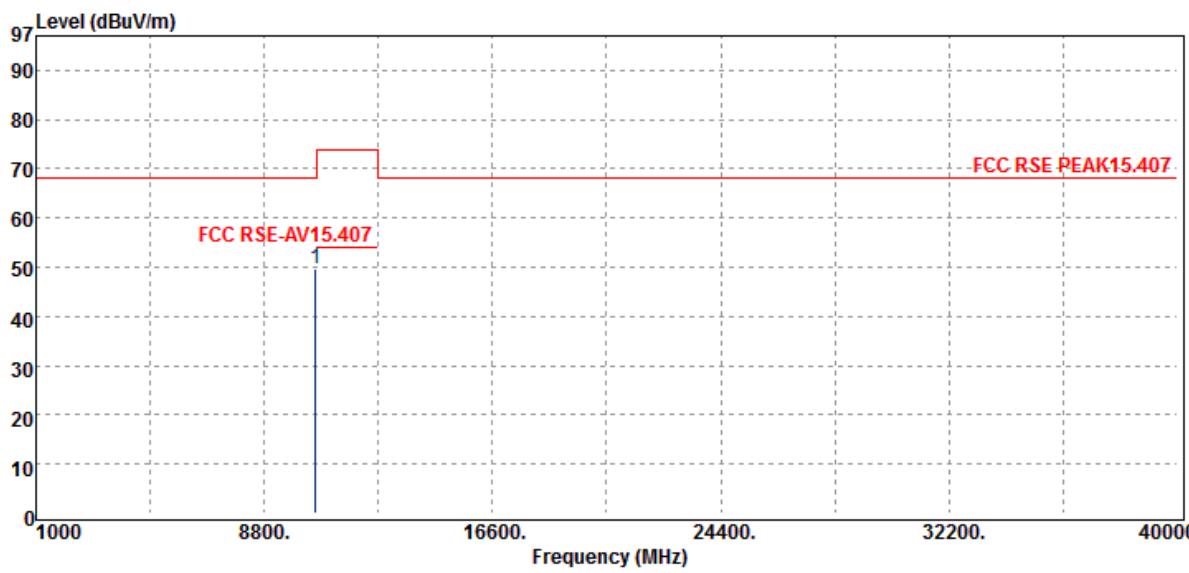
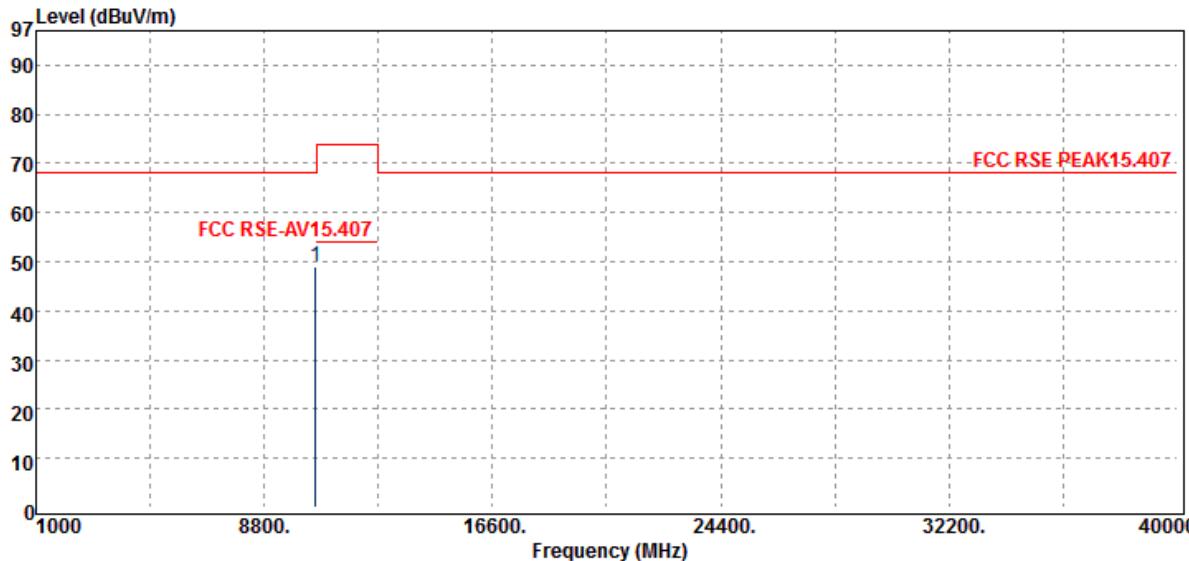
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802.11n_40M 5250-5350MHz

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.	:Ver. / Hor.

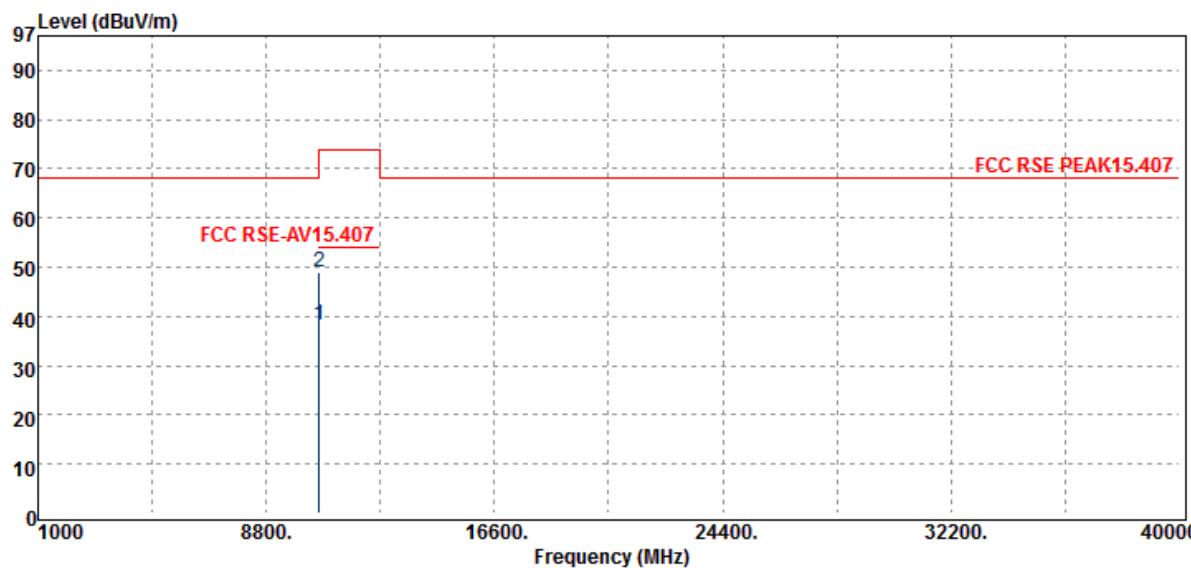
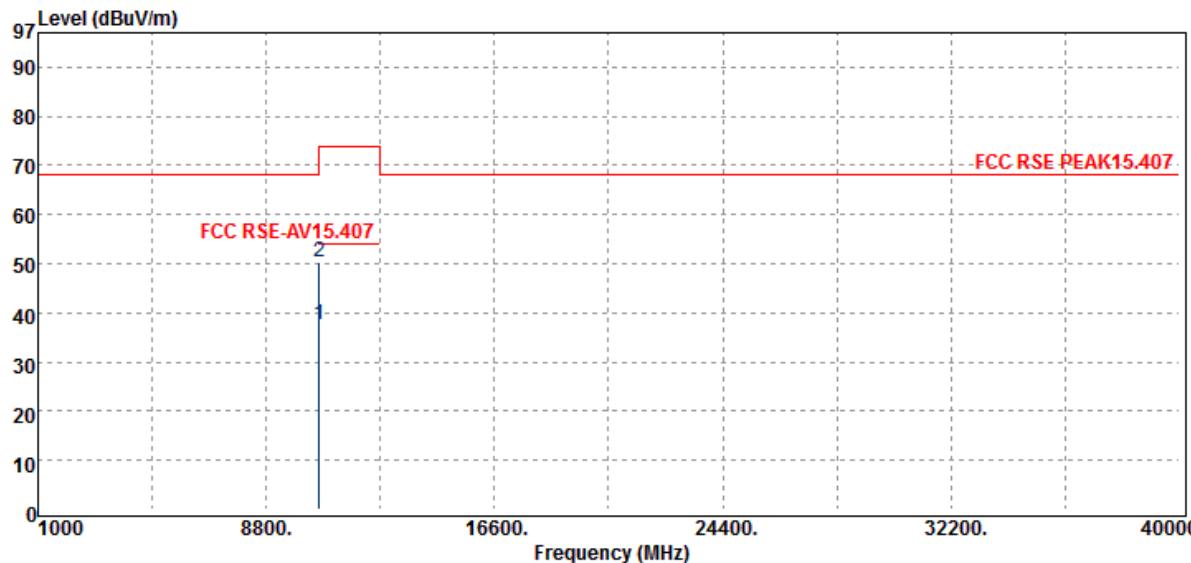


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Operation Band	:802.11 n40M	Test Date	:2014-11-18
Fundamental Frequency	:5310 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.



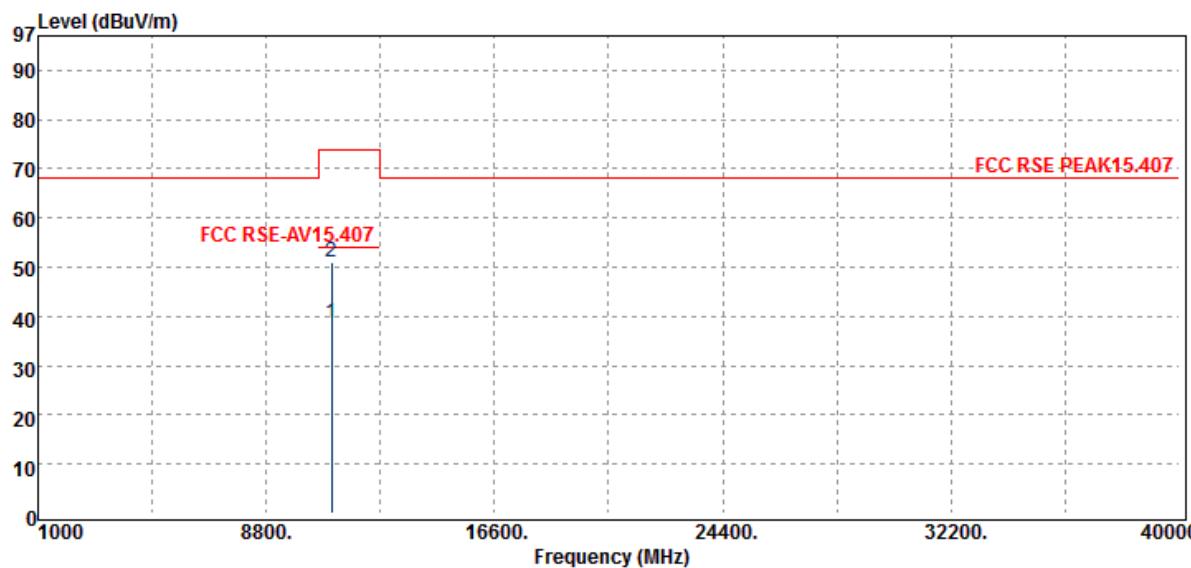
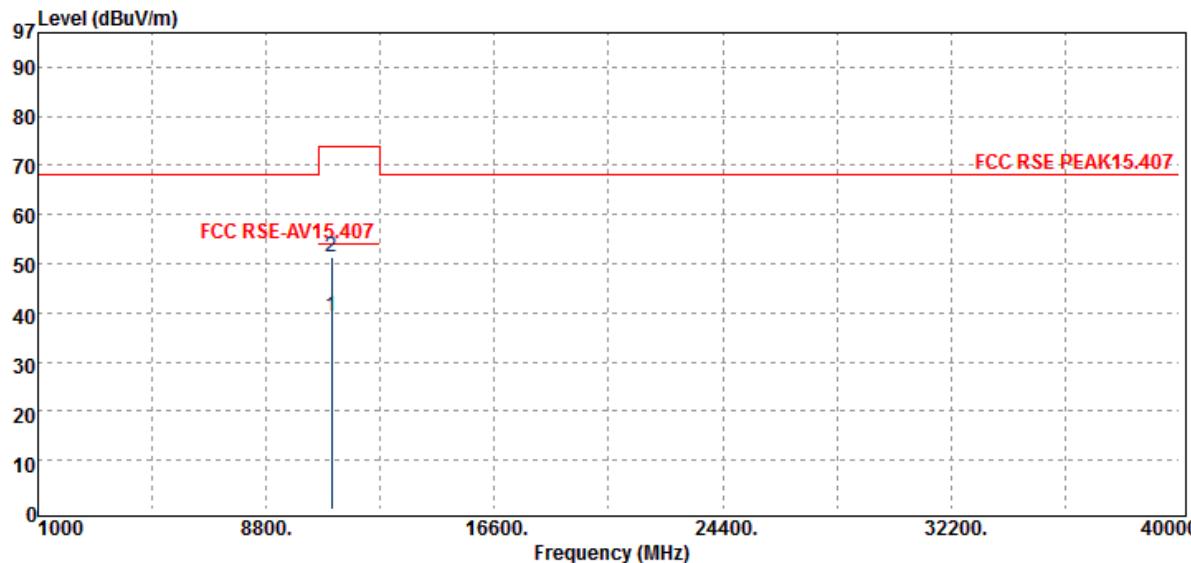
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802.11n_40M 5470-5725MHz

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.	:Ver. / Hor.

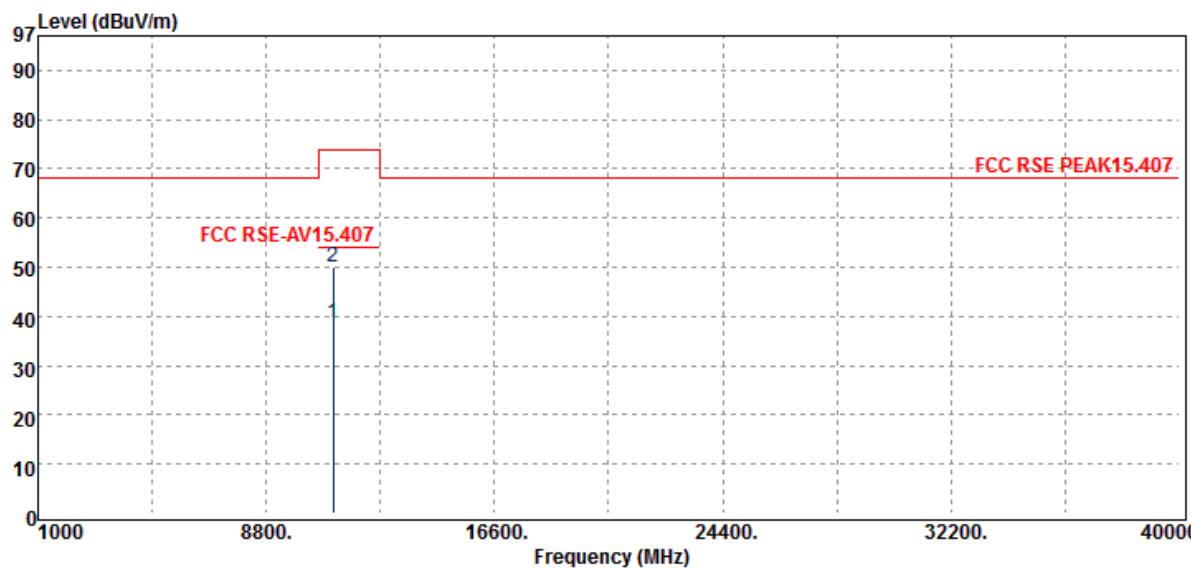
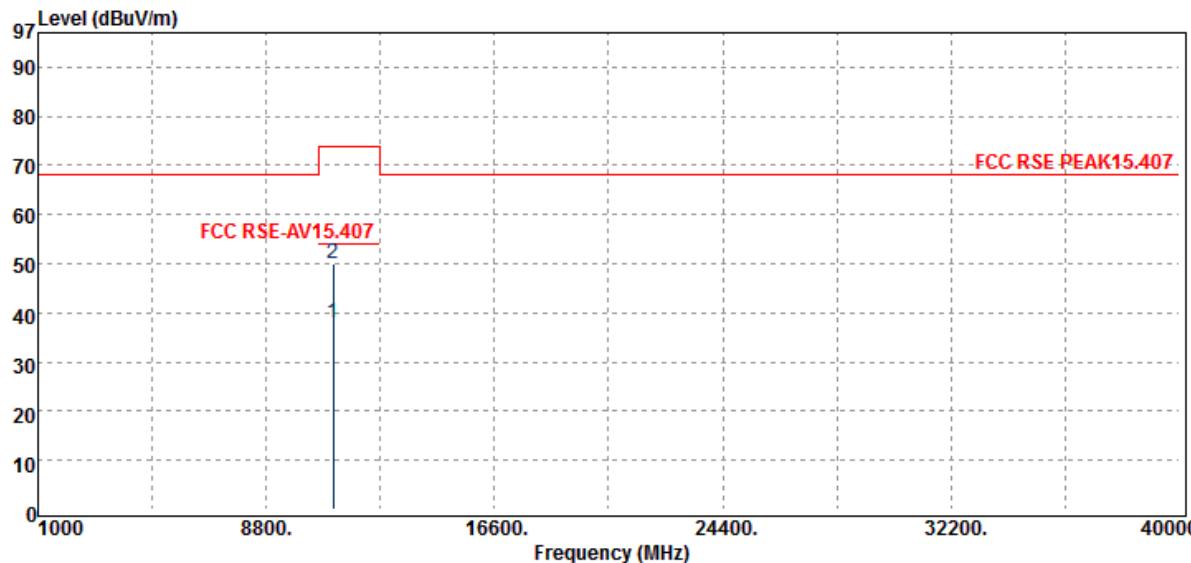


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Operation Band	:802.11 n40M	Test Date	:2014-11-18
Fundamental Frequency	:5550 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.

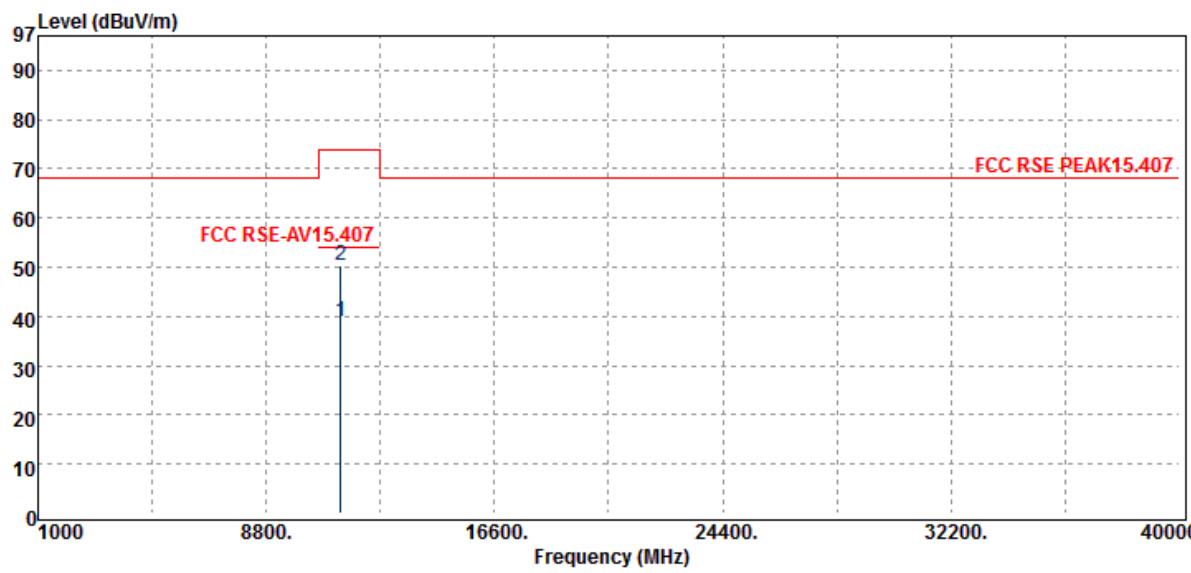
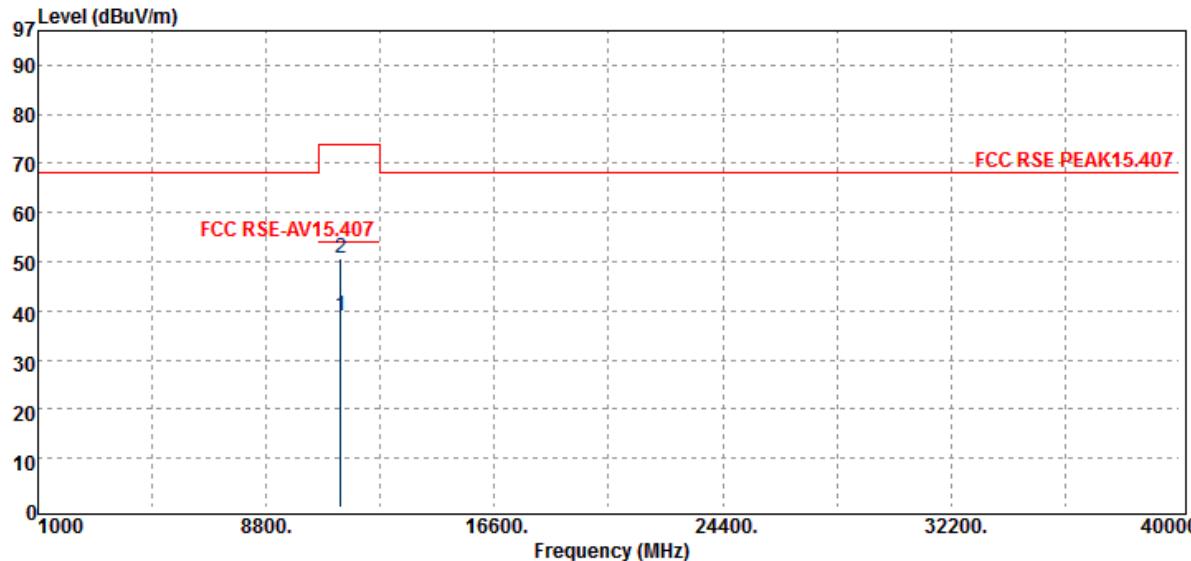


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Operation Band	:802.11 n40M	Test Date	:2014-11-18
Fundamental Frequency	:5670 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.



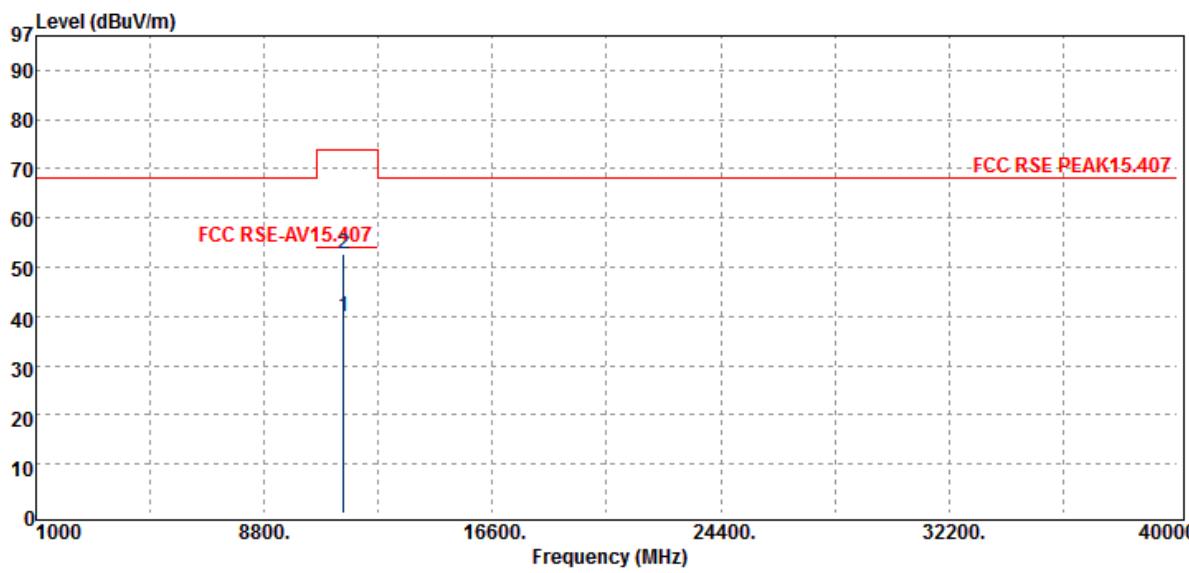
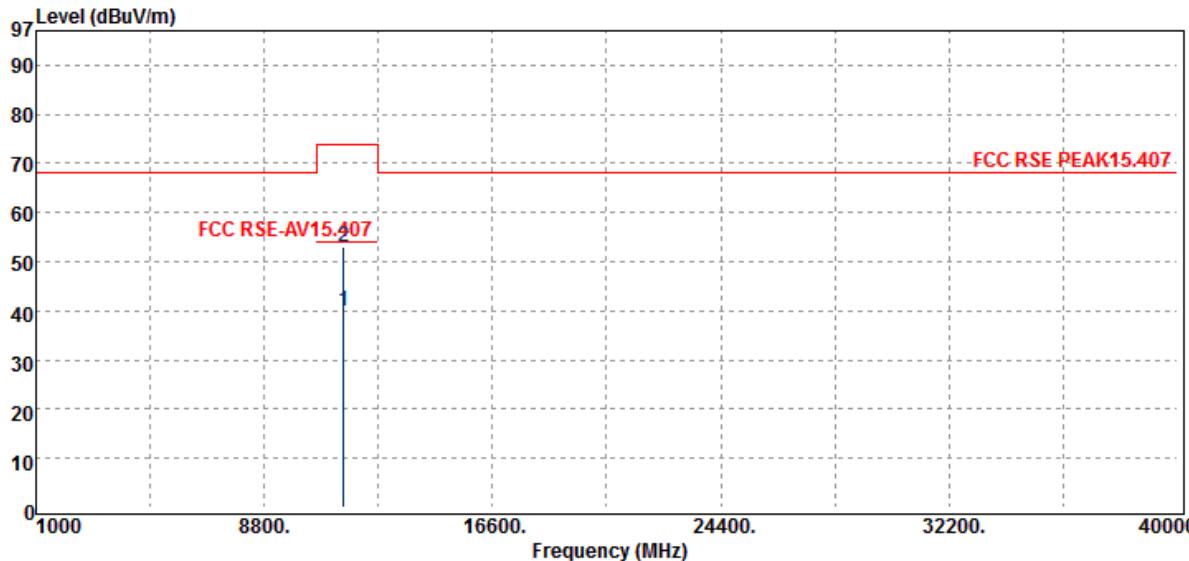
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802.11n_40M 5725-5850MHz

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.	:Ver. / Hor.

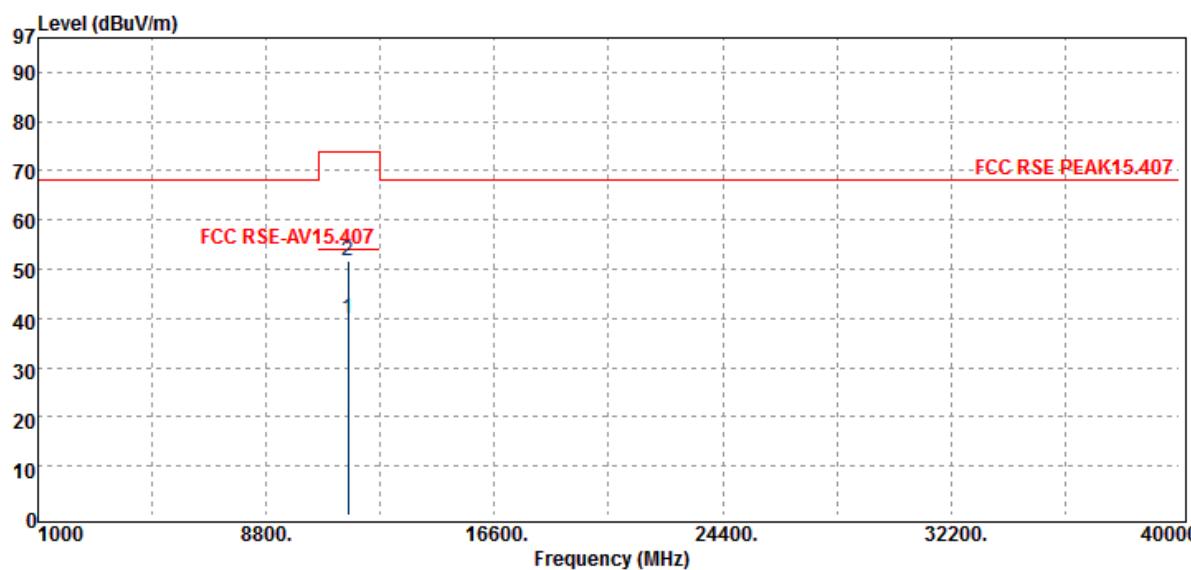
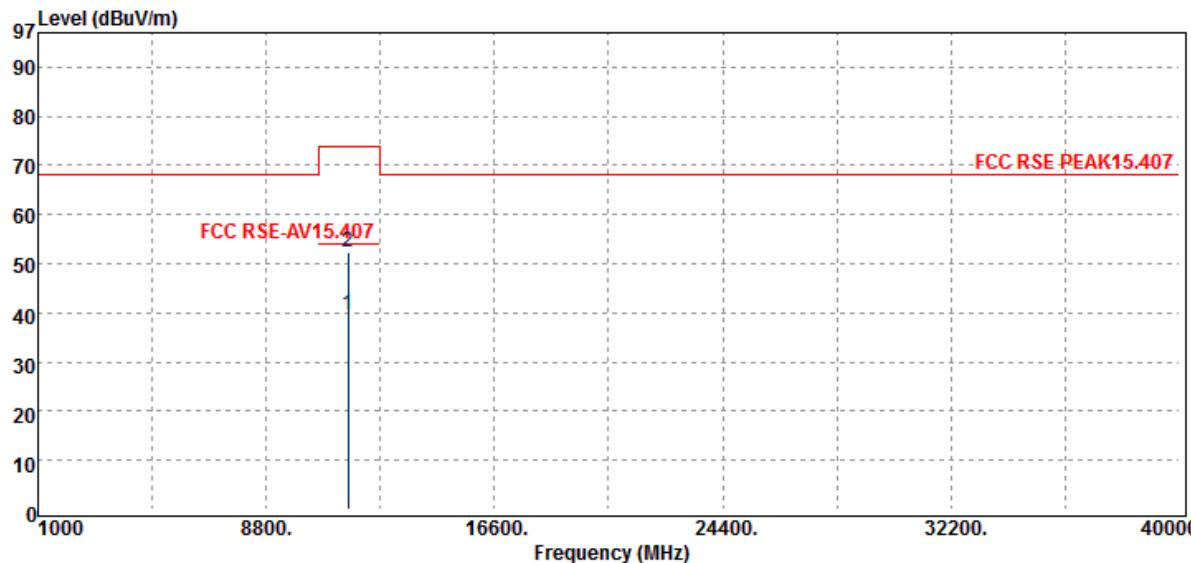


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Operation Band	:802.11 n40M	Test Date	:2014-11-18
Fundamental Frequency	:5795 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:Ver. / Hor.



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