

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

## INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART E REQUIREMENT AND INDUSTRY CANADA RSS 210

OF

**Product Name:** Mobile Phone  
**Brand Name:** Sony  
**Marketing Name:** C2104  
**Model No.:** PM-0300-BV  
**Model Difference:** N/A  
**FCC ID:** PY7PM-0300  
**IC:** 4170B-PM0300  
**Report No.:** EH/2012/B0008  
**Issue Date:** May. 03, 2013  
**FCC Rule Part:** §15.407  
**IC Rule Part:** RSS-210 issue 8:2010, Annex 9  
**Prepared for:** Sony Mobile Communications AB  
Nya Vattentornet 22188 Lund/SWEDEN  
**Prepared by:** SGS Taiwan Ltd.  
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## VERIFICATION OF COMPLIANCE

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

**Product Name:** Mobile Phone

**Brand Name:** Sony

**Marketing Name:** C2104

**Model No.:** PM-0300-BV

**Model Difference:** N/A

**FCC ID:** PY7PM-0300

**IC:** 4170B-PM0300

**File Number:** EH/2012/B0008

**Date of test:** Nov. 06, 2012 ~ May. 03, 2013

**Date of EUT Received:** Nov. 06, 2012

### 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 and RSS-210 issue 8: 2010 Annex 9.

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

**Test By:**

*Marcus Tseng*

**Date:**

May. 03, 2013

*Marcus Tseng / Engineer*

**Prepared By:**

*Cherry Chen*

**Date:**

May. 03, 2013

*Cherry Chen / Clerk*

**Approved By:**

*Jim Chang*

**Date:**

May. 03, 2013

*Jim Chang / Supervisor*

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## Version

Version No.	Date	Description
00	Dec. 05, 2012	Initial creation of document
01	Mar. 19, 2013	Revise the description of test procedure, reformat the test item to more readable, and viewable. Remove description not relevant to the respective regulatory provision.
02	Apr. 04, 2013	Add the measurement uncertainty with +- indicating how value uncertainty is based on the section of uncertainty on page 18.
03	Apr.23, 2013	Add the measurement uncertainty with +- indicating how value uncertainty. And re-adjust the the description, and update the additional evaluation for peak excursion measurement based on the most recent revision 3 of KDB789033 D01, published on 04/08/2013.
04	Apr. 30, 2013	Update the undesirable Emission Data, and Limit (68.3dBuV/m) in the section 12, Re-adjust the contents in section 3 of the summary table
05	May. 03, 2013	Add the band edges of the 5470 MHz to 5725 MHz band.

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## Table of Contents

<b>1. GENERAL INFORMATION</b>	<b>7</b>
1.1. Product Description	7
1.2. Related Submittal(s) / Grant (s)	13
1.3. Test Methodology	13
1.4. Test Facility	13
1.5. Special Accessories	13
1.6. Equipment Modifications	13
<b>2. SYSTEM TEST CONFIGURATION</b>	<b>14</b>
2.1. EUT Configuration	14
2.2. EUT Exercise	14
2.3. Test Procedure	14
2.4. Configuration of Tested System	15
<b>3. SUMMARY OF TEST RESULT</b>	<b>16</b>
<b>4. DESCRIPTION OF TEST MODES</b>	<b>17</b>
<b>5. MEASUREMENT UNCERTAINTY</b>	<b>24</b>
<b>6. CONDUCTED EMISSION TEST</b>	<b>25</b>
6.1. Standard Applicable	25
6.2. EUT Setup	25
6.3. Measurement Procedure	25
6.4. Measurement Equipment Used:	26
6.5. Measurement Result	26
<b>7. 26dB and 99%EMISSION BANDWIDTH MEASUREMENT</b>	<b>29</b>
7.1 Standard Applicable	29
7.2 Measurement Procedure	29
7.3 Measurement Equipment Used:	30
7.4 Test Set-up:	30
7.5 Measurement Result	31
7.6 Measurement Result	50
<b>8. PEAK OUTPUT POWER MEASUREMENT</b>	<b>69</b>
8.1 Standard Applicable	69
8.2 Measurement Procedure	70
8.3 Measurement Equipment Used:	70
8.4 Test Set-up:	71
8.5 Measurement Result	72

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

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<b>9. PEAK POWER SPECTRAL DENSITY .....</b>	<b>78</b>
9.1 Standard Applicable.....	78
9.2 Measurement Procedure (following procedure E in KDB789033 D01) .....	80
9.3 Measurement Equipment Used: .....	80
9.4 Test Set-up:.....	80
9.5 Measurement Result .....	81
<b>10. PEAK EXCURSION MEASUREMENT .....</b>	<b>100</b>
10.1 Standard Applicable.....	100
10.2 Measurement Procedure (following procedure F in KDB789033) .....	100
10.3 Measurement Equipment Used: .....	102
10.4 Test Set-up:.....	102
10.4 Test Results: .....	103
<b>11. UNDESIRABLE EMISSION - CONDUCTED MEASUREMENT .....</b>	<b>151</b>
11.1 Standard Applicable.....	151
11.2 Measurement Procedure .....	152
11.3 Measurement Equipment Used: .....	153
11.4 Test Set-up:.....	153
11.5 Measurement Result: .....	153
<b>12. UNDESIRABLE EMISSION - RADIATED MEASUREMENT .....</b>	<b>210</b>
12.1 Standard Applicable.....	210
12.2 EUT Setup .....	216
12.3 Measurement Procedure .....	216
12.4 Test SET-UP (Block Diagram of Configuration).....	217
12.5 Measurement Equipment Used: .....	218
12.6 Field Strength Calculation .....	220
12.7 Measurement Result .....	220
<b>13. TRANSMISSION IN THE ABSENCE OF DATA .....</b>	<b>286</b>
13.1 Standard Applicable.....	286
13.2 Result:.....	286
<b>14. FREQUENCY STABILITY .....</b>	<b>287</b>
14.1 Standard Applicable.....	287
14.2 Result:.....	287
<b>15. ANTENNA REQUIREMENT .....</b>	<b>294</b>
15.1 Standard Applicable.....	294
15.2 Antenna Connected Construction .....	294

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<b>16. TPC and DFS MEASUREMENT .....</b>	<b>295</b>
16.1 TPC: Standard Applicable .....	295
16.2 DFS: Standard Applicable .....	295
<b>MEASUREMENT PLOT OF RADIATED SPURIOUS EMISSION .....</b>	<b>308</b>

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## 1. GENERAL INFORMATION

### 1.1. Product Description

General:

Product Name:	Mobile Phone	
Brand Name:	Sony	
Marketing Name:	C2104	
Model No.:	PM-0300-BV	
Model Difference:	N/A	
Data Cable (USB):	Model No.: EC450, Supplier: K-one Type No.: AI-0700	
Simple Hands-Free (SHF):	Model No.: MH410c, Supplier: Foster Electric Type No.: AG-1100	
Car Charger:	Model No.: AN400, Supplier: Salcomp Type No.: CAA-0003013	
Hardware Version:	A	
Software Version:	15.0.A.1.1	
Power Supply:	3.7Vdc from Li-Polymer battery	
	Battery:	Model No.: BA900, Supplier: Sony Type No.: AB-0500
	Adapter:	Model No.: EP800, Supplier: Salcomp Type No.: CAA-0002016-US

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Bluetooth BR+EDR:

Bluetooth Version:	V2.1 + EDR (GFSK + $\pi/4$ DQPSK + 8DPSK)
Channel number:	79 channels
Modulation type:	Frequency Hopping Spread Spectrum
Transmit Power:	9.75dBm
Frequency Range:	2.402GHz – 2.480GHz
Dwell Time:	$\leq 0.4s$
Antenna Designation:	PIFA Antenna, Gain: 0.02dBi
Type of Emission:	891KF7D (GFSK) / 1M18G7D ( $\pi/4$ DQPSK) / 1M18G7D (8DPSK)

Bluetooth Low Energy:

Frequency Range:	2402 – 2480MHz
Bluetooth Version:	V4.0 Dual mode
Channel number:	40 channels
Modulation type:	GFSK
Transmit Power:	1.45 dBm (Peak)
Antenna Designation:	PIFA Antenna, Gain: 0.02dBi
Type of Emission:	1M09F7D

NFC:

Operating Frequency	13.56MHz
Transmit Power	$< 123dBuV/m$ at 3m.
Number of Channels	1
Antenna Type	Loop Antenna
Modulation Type	ASK, BPSK
Type of Emission:	23K0F1D

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WLAN 2.4GHz+5.7GHz:

Wi-Fi	Frequency Range	Channels	Rated Power	Modulation Technology	Type of Emission
11b/g	2412-2462	11	b: 20.36dBm g: 19.19dBm	DSSS, OFDM	b: 15M3D1D g: 17M2D1D
11n	HT20 2412-2462	11	HT20: 19.13dBm	OFDM	n: 18M0D1D
11a	5725-5850	5	a : 19.38 dBm	OFDM	a: 17M9D1D
11n (5GHz)	HT20 5725-5850	5	HT20: 19.26 dBm		n_20HT:18M4D1D
11n (5GHz)	HT40 5725-5850	2	HT40: 19.50 dBm		n_40HT:36M8D1D
Antenna Designation:		PIFA Antenna, 2.4GHz Gain: 0.02dBi 5GHz Gain: 3.11 dBi (5725MHz-5850MHz)			
Modulation type:		CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM			
Transition Rate:		802.11 a: 6/9/12/18/24/36/48/54 Mbps 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 – 150Mbps			

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WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Avg)	Rated Power (EIRP)	Modulation Technology	Type of Emission
11a	5150~5250	4	15.95dBm	16.21dBm	OFDM	17M7D1D
	5250~5350	4	15.87dBm	16.90dBm		17M6D1D
	5470~5725	11	15.97dBm	19.37dBm		17M9D1D
11n	HT20 5150~5250	4	HT20: 15.97dBm	HT20: 16.23dBm	OFDM	18M5D1D
	HT20 5250~5350	4	HT20: 15.92dBm	HT20: 16.95dBm		18M5D1D
	HT20 5470~5725	11	HT20: 15.98dBm	HT20: 19.38dBm		18M5D1D
11n	HT40 5150~5250	2	HT40: 15.77dBm	HT40: 16.03dBm	OFDM	36M2D1D
	HT40 5250~5350	2	HT40: 15.78dBm	HT40: 16.81dBm		36M3D1D
	HT40 5470~5725	5	HT40: 15.93dBm	HT40: 19.33dBm		36M4D1D
Antenna Designation	PIFA Antenna, 5GHz Gain: 0.26 dBi (5150MHz-5250MHz) 5GHz Gain: 1.03 dBi (5250MHz-5350MHz) 5GHz Gain: 3.40 dBi (5470MHz-5725MHz)					
Modulation type	CCK, DQPSK, DBPSK for DSSS 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 – 72.2Mbps 802.11 n_40MHz: 13.5 – 150Mbps					

The 5G max antenna gain is 3.40dBi which was choosing for Radiated Spurious Emission test.

The EUT is compliance with IEEE 802.11 a/n\_HT20M/n\_HT40M Standard.

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GSM / WCDMA:

Cellular Phone Standards Frequency Range and Power.	Operating Frequency		Rated Power
	GSM/GPRS 850, Class 12	824.2 MHz– 848.8 MHz	33 dBm
	EDGE 850, Class 12	824.2 MHz– 848.8 MHz	27 dBm
	GSM/GPRS 1900, Class 12	1850.2MHz – 1909.8MHz	30 dBm
	EDGE 1900, Class 12	1850.2MHz – 1909.8MHz	26 dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band II	1852.4MHz – 1907.6MHz	24 dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band IV	1712.4MHz - 1752.6MHz	24 dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band V	826.4MHz - 846.6MHz	24 dBm
Type of Emission:	GSM 850: 249KGXW, GSM 1900: 253KGXW GPRS 850: 250KGXW, GPRS 1900: 247KGXW EDGE 850: 243KG7W, EDGE 1900: 251KG7W WCDMA Band II: 4M19F9W, WCDMA Band IV: 4M19F9W, WCDMA Band V: 4M20F9W HSDPA Band II: 4M24F9W, HSDPA Band IV: 4M24F9W, HSDPA Band V: 4M22F9W HSUPA Band II: 4M24F9W, HSUPA Band IV: 4M23F9W, HSUPA Band V: 4M25F9W		
IMEI:	004402146156595		

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

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IEEE 802.11n Spec:

MCS Index	Nss	Modulation	R	NBPS	NCBPS		NDBPS		Data rate(Mbps)			
					20MHz	40MHz	20MHz	40MHz	800nsGI		400nsGI	
									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
8	2	BPSK	1/2	1	104	216	52	108	13.0	27.0	14.444	30
9	2	QPSK	1/2	2	208	432	104	216	26.0	54.0	28.889	60
10	2	QPSK	3/4	2	208	432	156	324	39.0	81.0	43.333	90
11	2	16-QAM	1/2	4	416	864	208	432	52.0	108.0	57.778	120
12	2	16-QAM	3/4	4	416	864	312	648	78.0	162.0	86.667	180
13	2	64-QAM	2/3	6	624	1296	416	864	104.0	216.0	115.556	240
14	2	64-QAM	3/4	6	624	1296	468	972	117.0	243.0	130.000	270
15	2	64-QAM	5/6	6	624	1296	520	1080	130.0	270.0	144.444	300

Symbol	Explanation
NSS	Number of spatial streams
R	Code rate
NBPS	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: PY7PM-0300** filing to comply with Section 15.407 of the FCC Part 15, Subpart E Rules and **IC: 4170B-PM0300** filing to comply with Industry Canada RSS-210 issue 8: 2010 Annex 9. The composite system (digital device) is compliance with Subpart B is authorized under a DoC procedure.

## 1.3. Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4:2009 & ANSI C63.10:2009 & KDB 789033 D01 published on 04, 08, 2013. Radiated testing was performed at an antenna to EUT distance 3 meters.

Tested in accordance with FCC KDB789033 D01 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, Wuku Industrial Zone, Taipei County, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2009. & ANSI C63.10:2009. FCC Registration Number are: 990257 and 236194, Canada Registration Number: 4620A-04.

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 29, Pau-Tou-Tsuo Valley Chia-Pau Tsuen, Linkou Hsiang, Taipei county, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 &10 meters) and FCC Registration Number: 94644.

## 1.5. Special Accessories

Not available for this EUT intended for grant.

## 1.6. Equipment Modifications

There were no modifications 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 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 requirements in Section 7.3.1 of ANSI C63.4:2009 & ANSI C63.10:2009. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and Average detector mode.

#### 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 Subclause 8.3.1.2 of ANSI C63.4:2009 & ANSI C63.10:2009.

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## 2.4. Configuration of Tested System

Fig. 2-1 Radiated Emission Configuration

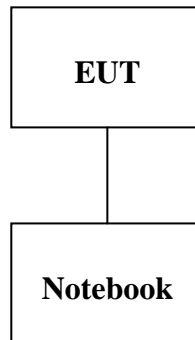


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	Notebook	IBM	T60	L3DK794	Un-shielded	Un-shielded
2.	WLAN Test Software	QRCT	2.4.83.0	N/A	N/A	N/A

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### 3. SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§15.207 RSS-Gen §7.2.4	AC Power Line Conducted Emission	Compliant
§15.407(a) (1) (2) RSS 210 A9.2 RSS-Gen §4.6.1	26 dB and 99% Emission Bandwidth	Compliant
§15.407(a) (1) (2) RSS 210 A9.2(1)(2)(3)	Peak Output Power Measurement	Compliant
§15.407(a) (5) RSS 210 A9.2(1)(2)(3)	Peak Power Spectral Density Measurement	Compliant
15.407(a)(6)	Peak Excursion Measurement	Compliant
§15.407(b) (1) (2) (3) RSS 210 A9.2(1)(2)(3)	Undesirable Emission – Con- ducted Measurement	Compliant
§15.407(b) (1) (2) (3)(6) (7) RSS 210 A9.2 (1) (2)(3) RSS-Gen 7.2.5	Undesirable Emission – Radiated Measurement	Compliant
§15.407(c) RSS 210 A9.4(4)	Transmission in case of Absence of Information	Compliant
§15.407(g)	Frequency Stability	Compliant
§15.203 RSS-Gen 7.1.2	Antenna Requirement	Compliant
§15.407(h) RSS 210 A9.3	TPC and DFS Measurement	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.

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

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(5590MHz) and Highest(5670MHz)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/b/g/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.

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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  $a = 99\%$ ,  $n_{HT20\&HT40} = 99\%$ , and  $n_{ht\_20\&n\_ht\_40} = 99\%$ , where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

**Formula :**

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

**Test Procedure:**

Set span = 0, RBW = 8MHz, the largest as possible, VBW = 8MHz, Detector = Peak, and RBW, and VBW = 8 MHz where zero-span is permissible, that  $> 50/T$ , where  $T$  is  $\sim 4.3ms$

Duty Cycle:

	UNII Band 1	UNII Band 2 – Subband1	UNII Band 2 – Subband2
802.11a	0.996667	0.996667	0.996667
802.11n_20	0.996667	0.996667	0.996667
802.11n_40	0.996667	0.996667	0.996667

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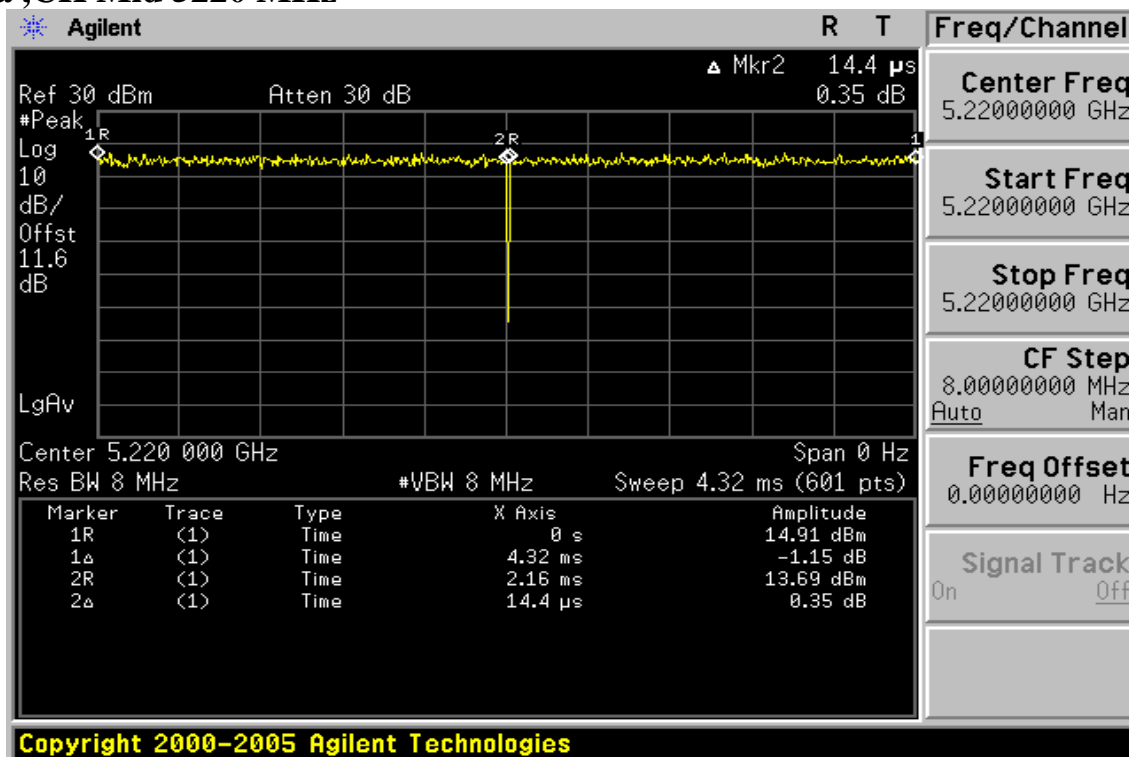
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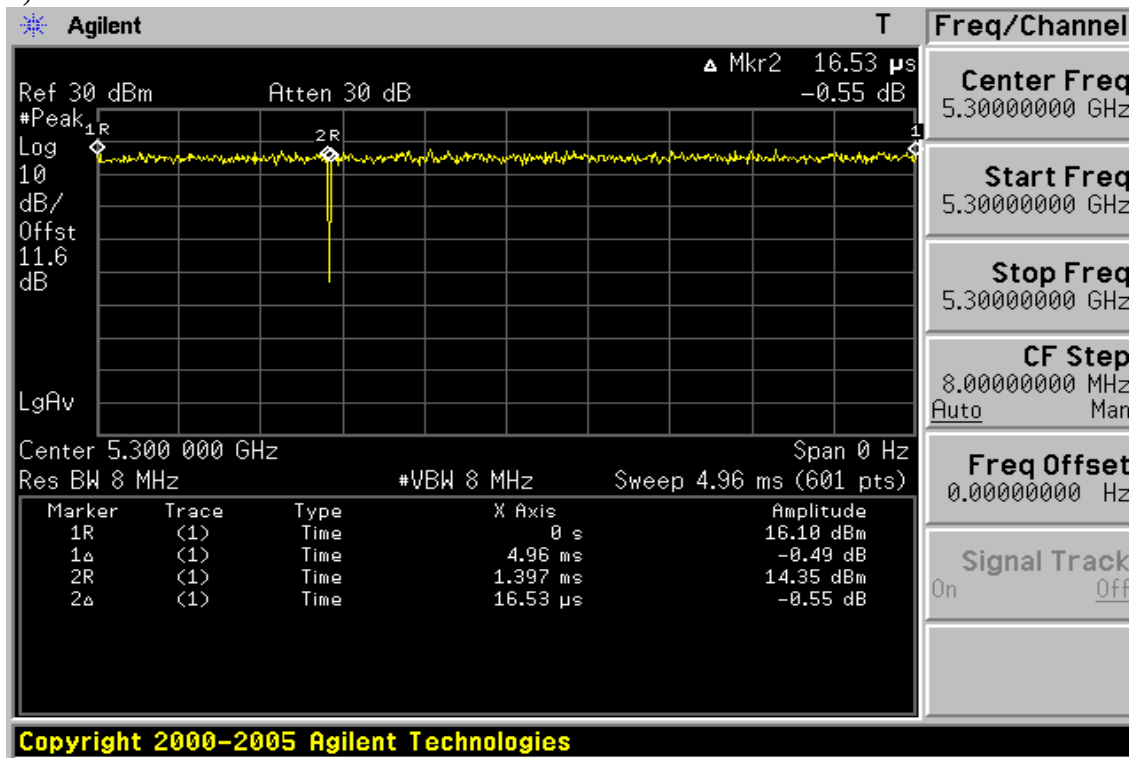
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### DUTY CYCLE OF TEST SIGNAL 802.11a ,CH Mid 5220 MHz



### 802.11a ,CH Mid 5300 MHz

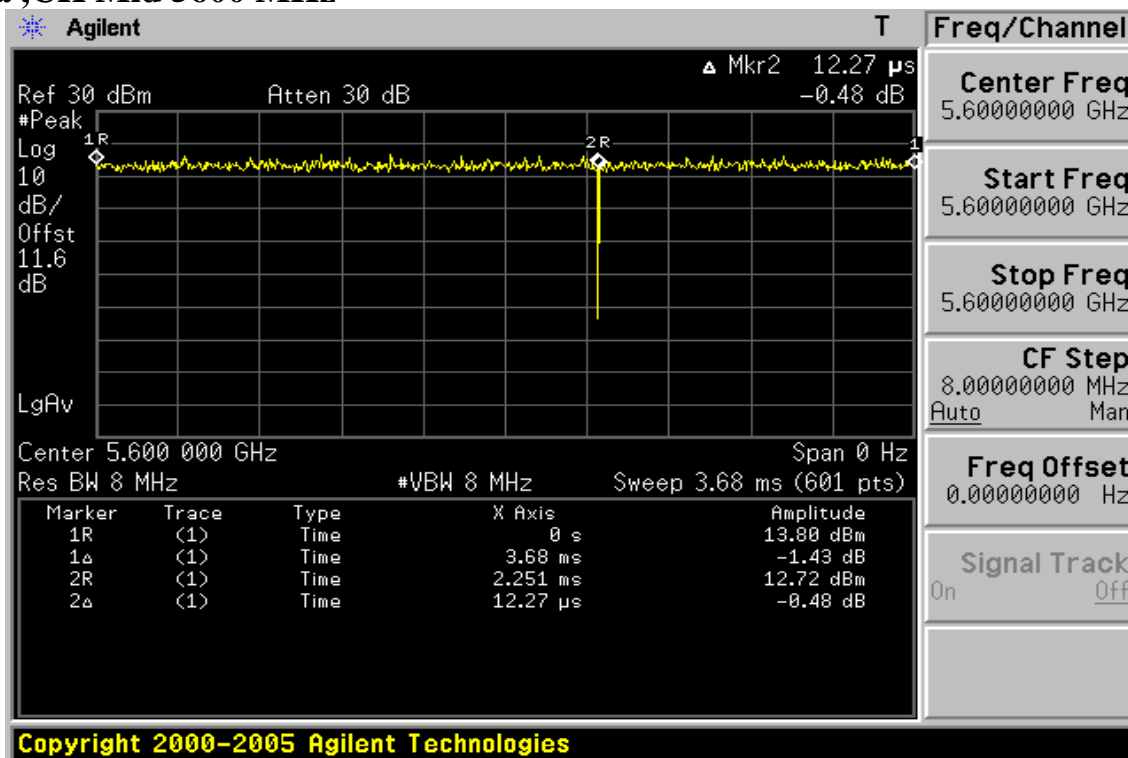


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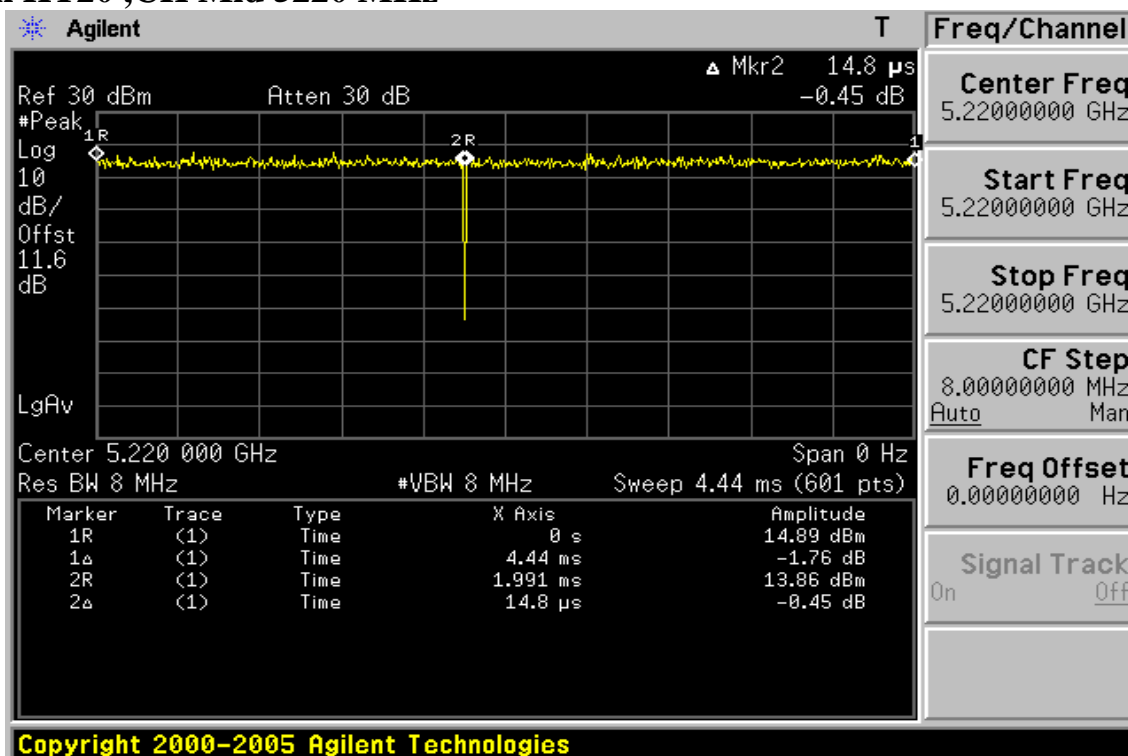
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### 802.11a ,CH Mid 5600 MHz



### 802.11n HT20 ,CH Mid 5220 MHz



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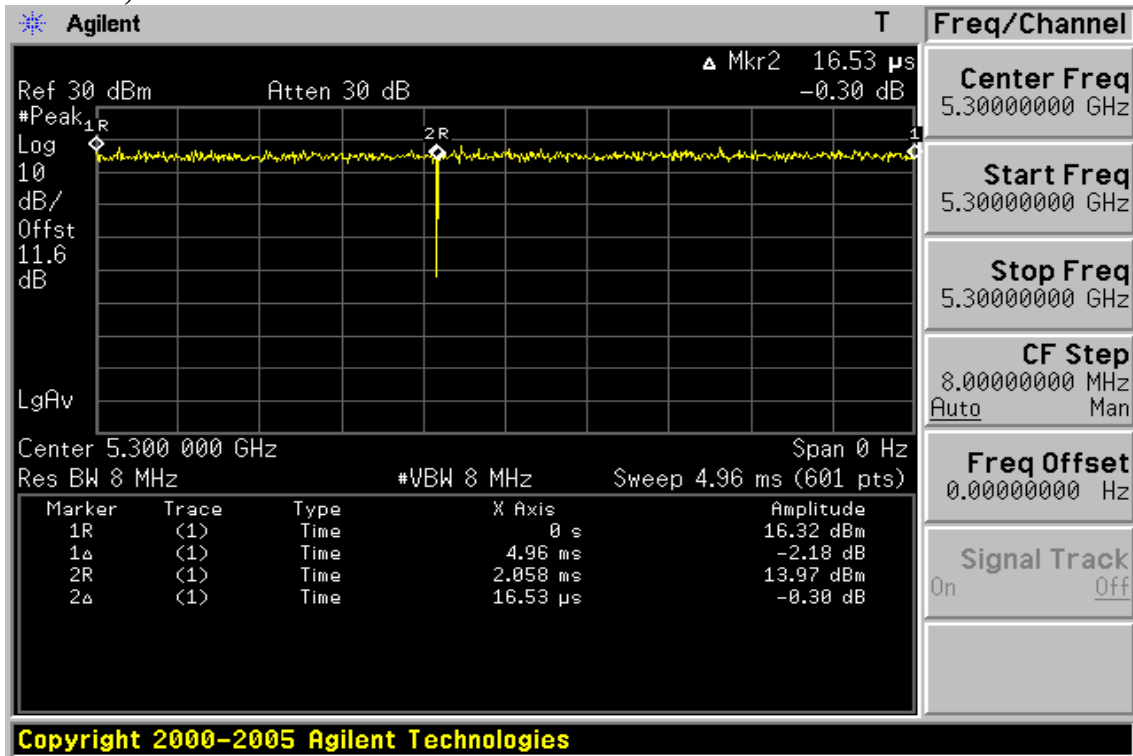
t (886-2) 2299-3279

f (886-2) 2298-0488

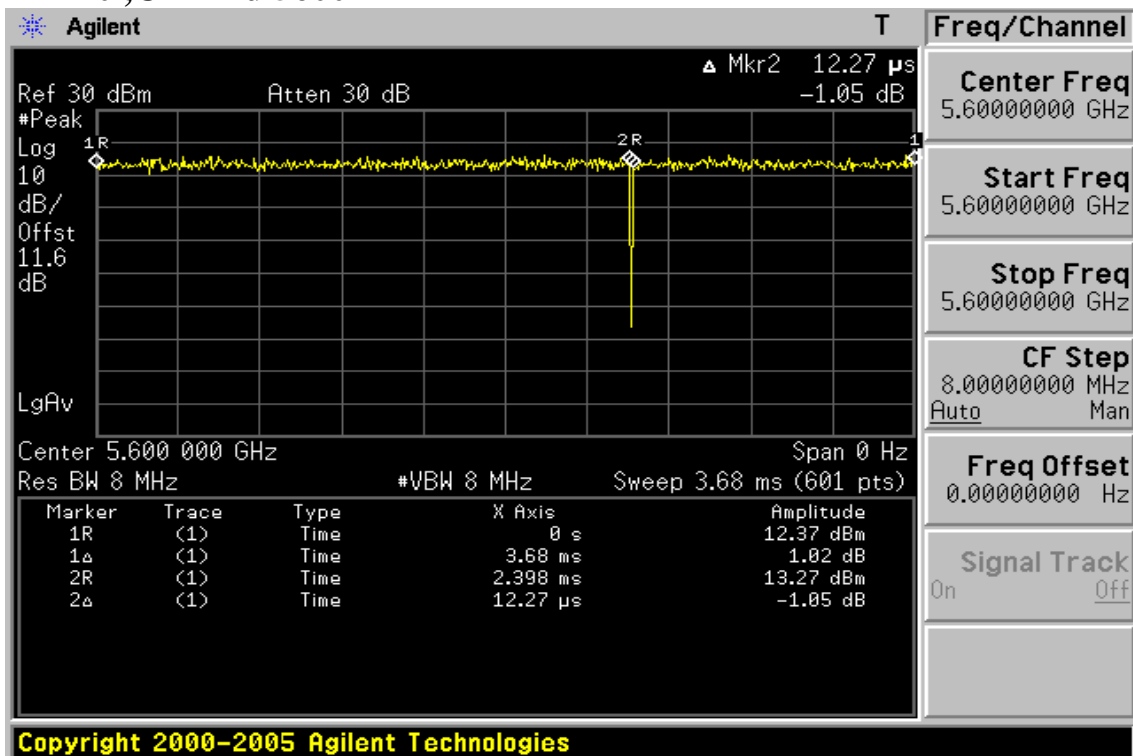
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802.11n HT20 ,CH Mid 5300 MHz



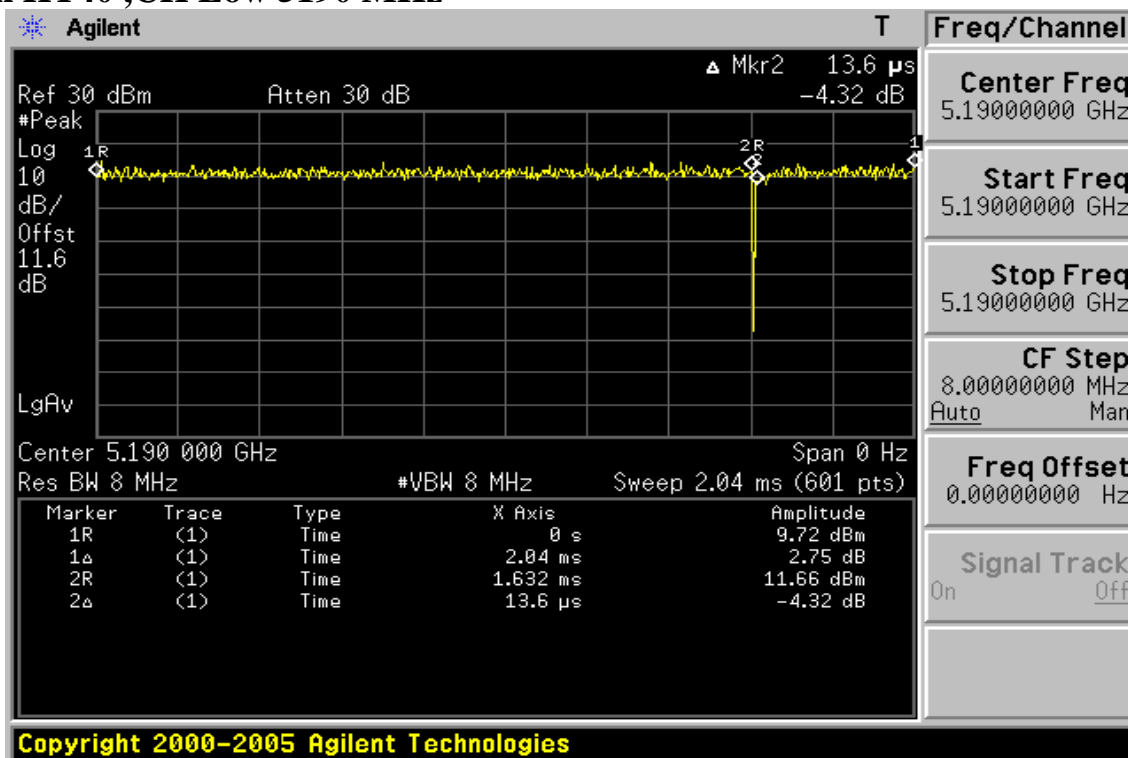
802.11n HT20 ,CH Mid 5600 MHz



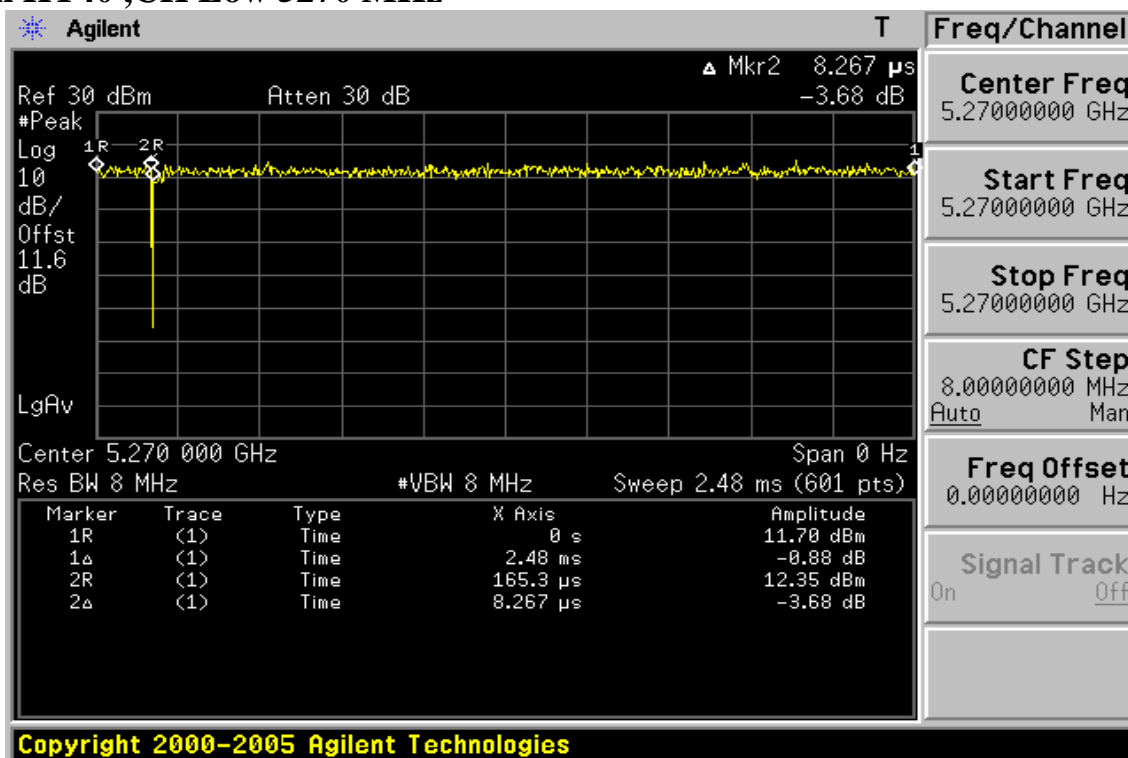
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802.11n HT40 ,CH Low 5190 MHz



802.11n HT40 ,CH Low 5270 MHz

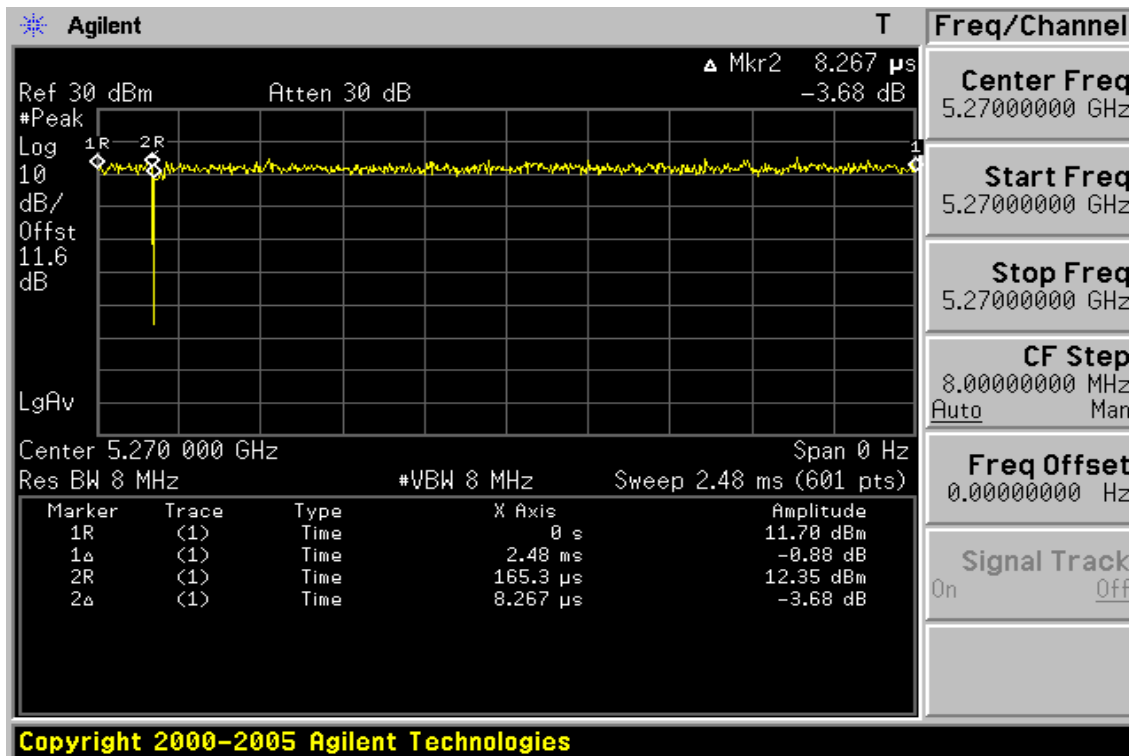


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## 802.11n HT40 ,CH Low 5510 MHz



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## 5. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
26 dB and 99% Emission Bandwidth	+/- 123.36 Hz
Peak Output Power Measurement	+/- 1.42 dB
Peak Power Spectral Density Measurement	+/- 1.55 dB
Peak Excursion Measurement	+/- 1.55 dB
Undesirable Emission – Conducted Measurement	+/- 1.55 dB
Transmission in case of Absence of Information	+/- 1.55 dB
Frequency Stability	+/- 123.36 Hz
TPC and DFS Measurement	+/- 123.36 Hz
Temperature	+/- 0.8 °C
Humidity	+/- 4.7 %
DC / AC Power Source	DC= +/- 1%, AC= +/- 0.2%

### Radiated Spurious Emission:

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

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

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

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## 6. CONDUCTED EMISSION TEST

### 6.1. Standard Applicable

According to §15.207 and RSS-Gen §7.2.4, 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. 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.

### 6.3. Measurement Procedure

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

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#### 6.4. Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI7	100759	05/20/2011	05/19/2013
EMI Receiver	R&S	ESCS 30	828985/004	09/23/2012	09/22/2013
LISN	Rolf-Heine	NNB-2/16Z	99012	03/23/2012	03/22/2013
LISN	FCC	FCC-LISN-50/250-25-2-01	04034	03/23/2012	03/22/2013
Coaxial Cables	N/A	WK CE Cable	N/A	01/05/2012	01/04/2013

#### 6.5. Measurement Result

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

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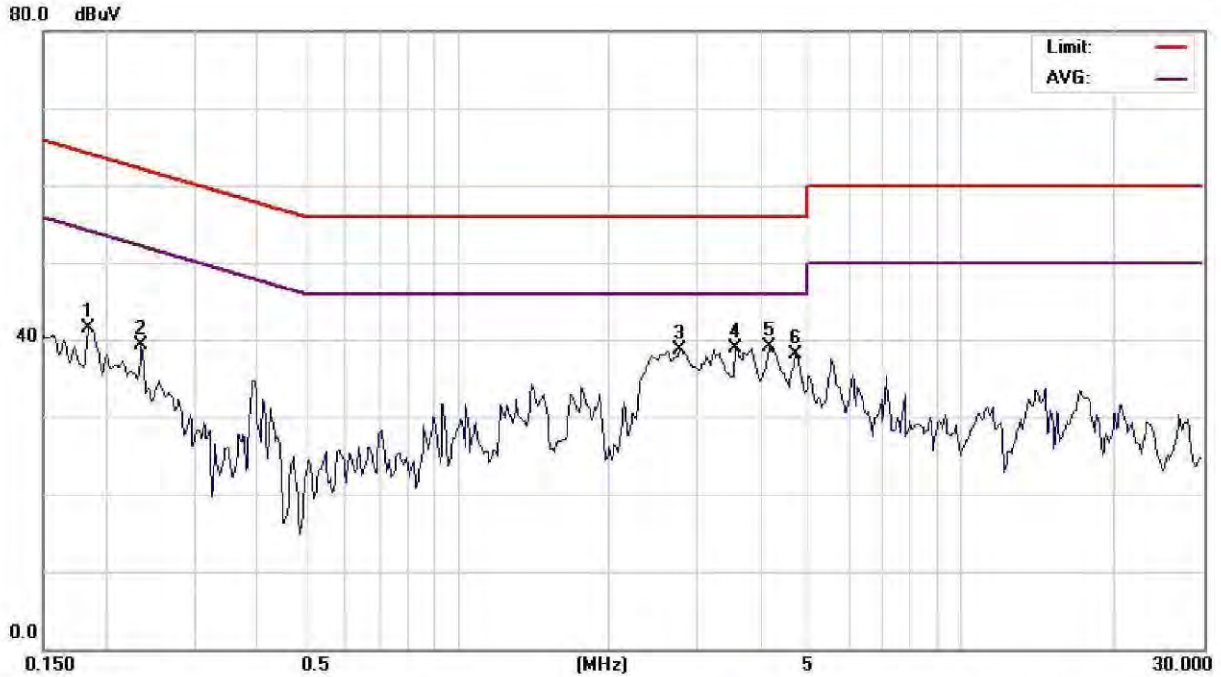
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### AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode		Test Date:	Nov. 19, 2012
Temperature:	26 °C	Humidity:	60 %	Test By: Marcus

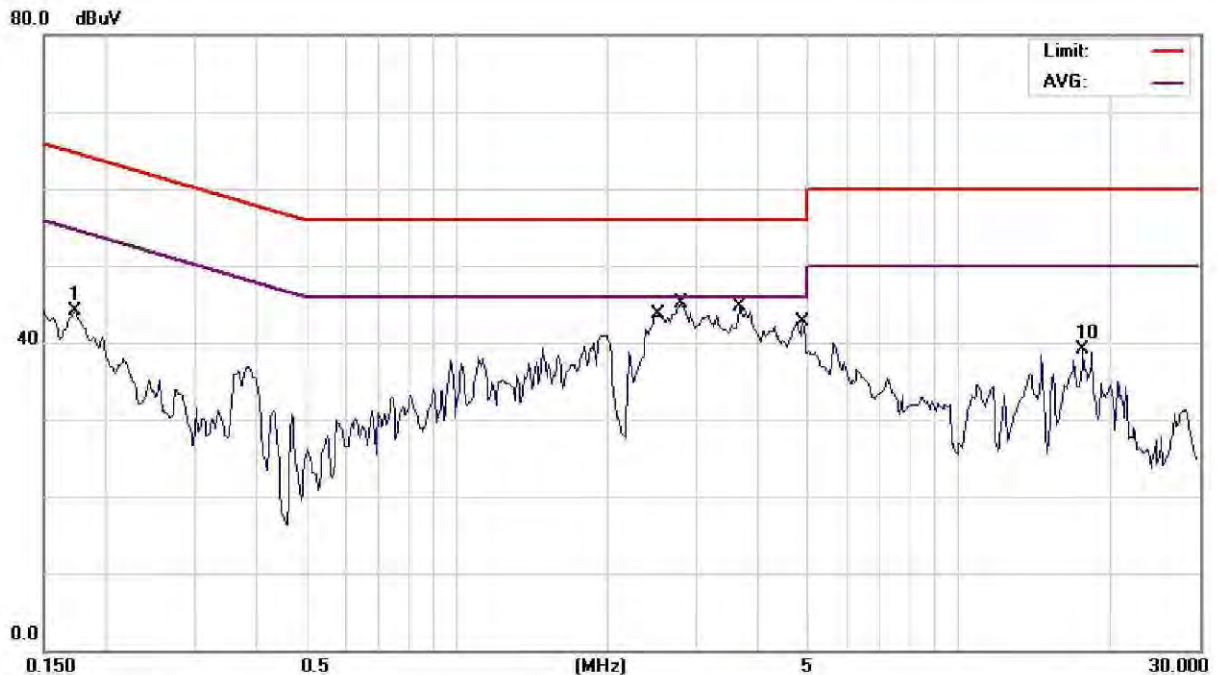


Site	ConductionRoom	Phase:	L1	Temperature:	26 °C
Limit:	FCC Class B Conduction(QP)	Power:	AC 120V/60Hz	Humidity:	60%
EUT:	MobilePhone	Distance:			
M/N:	PM-0300-BV				
Mode:	Operationmode				
Note:					

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1852	41.36	0.22	41.58	64.25	-22.67	peak	
2		0.2360	39.14	0.21	39.35	62.24	-22.89	peak	
3		2.7678	38.41	0.27	38.68	56.00	-17.32	peak	
4		3.5811	38.70	0.29	38.99	56.00	-17.01	peak	
5	*	4.1793	38.79	0.30	39.09	56.00	-16.91	peak	
6		4.7032	37.82	0.32	38.14	56.00	-17.86	peak	

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Site ConductionRoom

Phase: **N**

Temperature: 26 °C

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 60%

EUT: MobilePhone

Distance:

M/N: PM-0300-BV

Mode: Operationmode

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1735	43.84	0.33	44.17	64.79	-20.62	peak	
2		2.5271	37.60	0.34	37.94	56.00	-18.06	QP	
3	*	2.5271	28.29	0.34	28.63	46.00	-17.37	AVG	
4		2.7958	37.50	0.34	37.84	56.00	-18.16	QP	
5		2.7958	27.72	0.34	28.06	46.00	-17.94	AVG	
6		3.6607	35.22	0.35	35.57	56.00	-20.43	QP	
7		3.6607	26.66	0.35	27.01	46.00	-18.99	AVG	
8		4.9004	32.96	0.37	33.33	56.00	-22.67	QP	
9		4.9004	23.54	0.37	23.91	46.00	-22.09	AVG	
10		17.7896	38.33	0.69	39.02	60.00	-20.98	peak	

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## 7. 26dB and 99%EMISSION BANDWIDTH MEASUREMENT

### 7.1 Standard Applicable

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

According to RSS 210 A9.2(1), No Limit required

RSS-Gen §4.6, the transmitter shall be operated at its maximum carrier power measured under normal test conditions. The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts. The resolution bandwidth shall be set to as close to 1% of the selected span as is possible without being below 1%. The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used since a peak or, peak hold, may produce a wider bandwidth than actual.

The trace data points are recovered and are directly summed in linear terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached and that frequency recorded. The process is repeated for the highest frequency data points. This frequency is recorded.

### 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. A) 99% Bandwidth Measurement: set resolution BW as close to 1% of the selected span without it is being lower than 1%, & VBW = 3 XRBW. Detector = Peak or Sample, where sample must be selected whenever it is appropriate, Trace Mode = Max Hold
    - B) Mark the peak frequency and -26dB (upper and lower) frequency.
5. Repeat the procedures as list above until all test default channels (low, middle, and high) are completed.

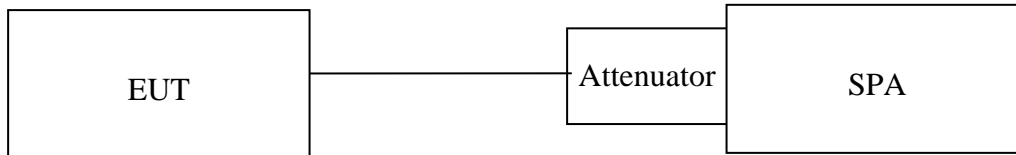
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### 7.3 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Sensor	Anritsu	ML2495A	1005007	02/08/2012	02/07/2014
Power Meter	Anritsu	MA2411B	917032	02/08/2012	02/07/2014
Spectrum Analyzer	Agilent	E4446A	MY51100003	04/15/2013	04/14/2014
Spectrum Analyzer	Agilent	E4440A	MY45304525	03/15/2013	03/14/2014
DC Block	Mini-Circuits	BLK-18-S+	1	02/28/2013	02/27/2014
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	01/05/2013	01/04/2014
Attenuator	Mini-Circuit	BW-S10W2+	002	02/28/2013	02/27/2014
Splitter	Agilent	11636B	N/A	02/28/2013	02/27/2014

### 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	39.943	16.01
5220	38.891	15.90
5240	37.691	15.76

802.11a, 5250~5350 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5260	39.827	16.00
5300	39.171	15.93
5320	40.296	16.05

802.11a, 5470~5725 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5500	39.497	15.97
5580	39.459	15.96
5700	39.996	16.02

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802.11n HT20, 5150~5250 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5180	40.382	16.06
5220	39.198	15.93
5240	39.463	15.96

802.11n HT20, 5250~5350 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5260	39.507	15.97
5300	39.050	15.92
5320	40.406	16.06

802.11n HT20, 5470~5725 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5500	39.843	16.00
5580	39.500	15.97
5700	39.050	15.92

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802.11n HT40, 5150~5250 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5190	82.430	19.16
5230	84.282	19.26

802.11n HT40, 5250~5350 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5270	82.329	19.16
5310	82.350	19.16

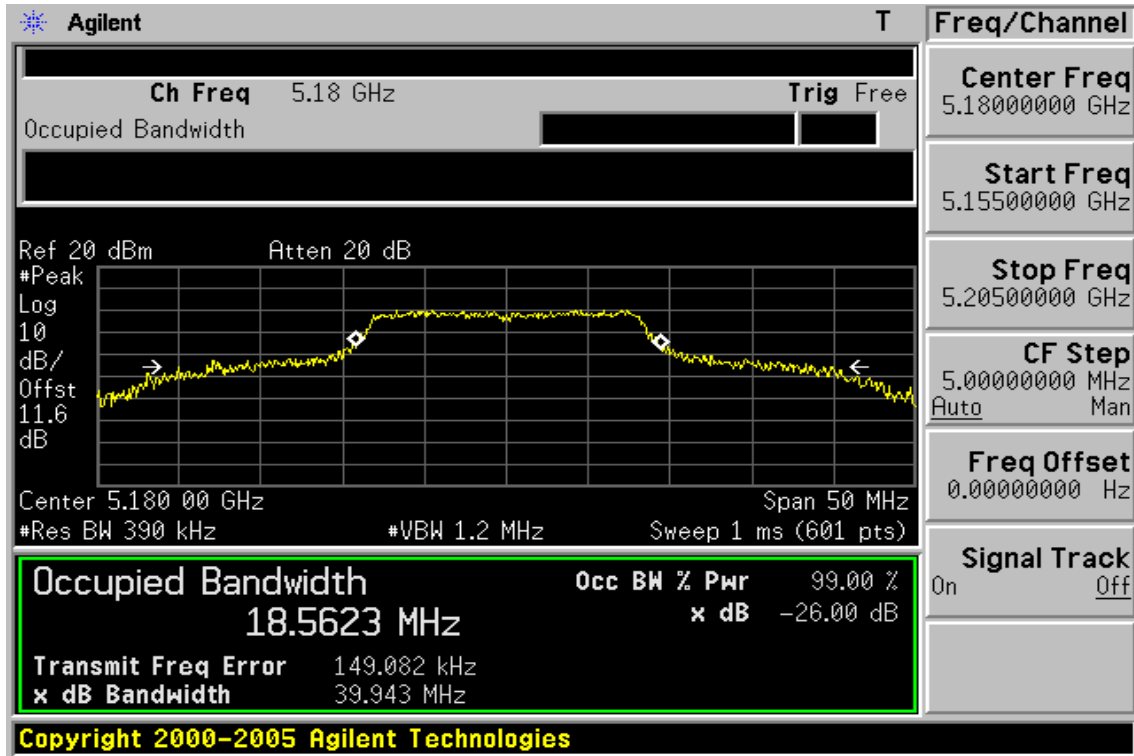
802.11n HT40, 5470~5725 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5510	81.214	19.10
5590	82.696	19.17
5670	82.255	19.15

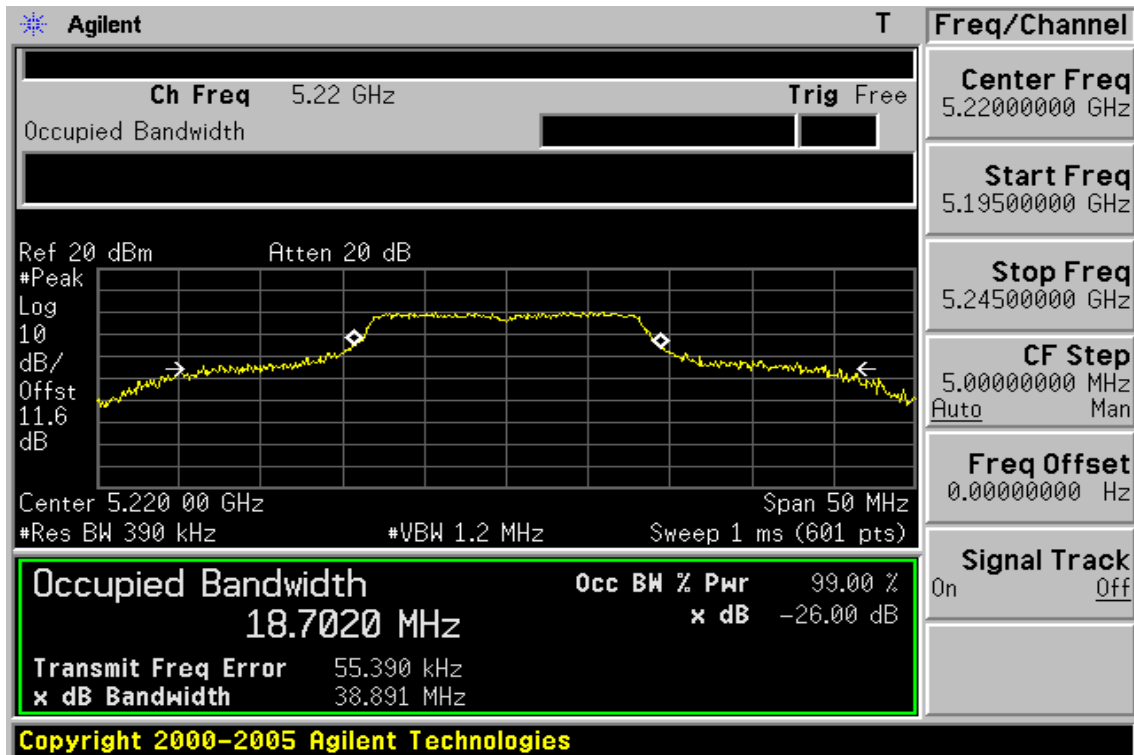
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**802.11a, 5150~5250 MHz**  
**26dB Band Width Test Data CH-Low (5180MHz)**



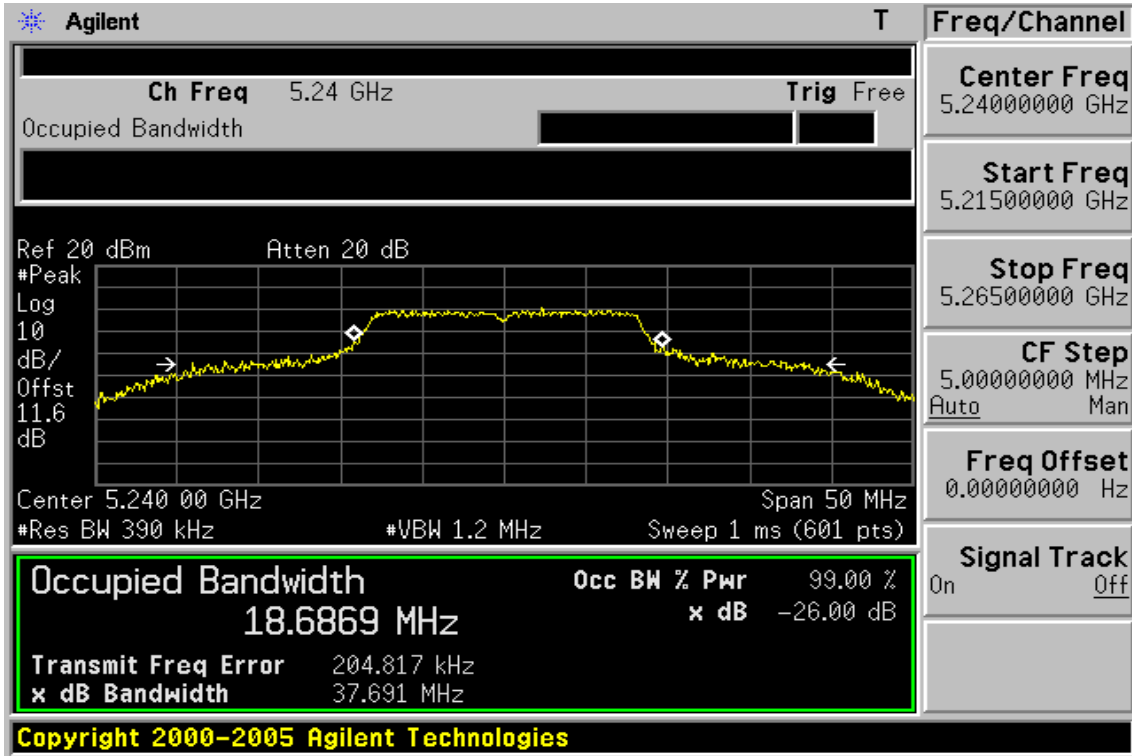
**26dB Band Width Test Data CH-Mid (5220MHz)**



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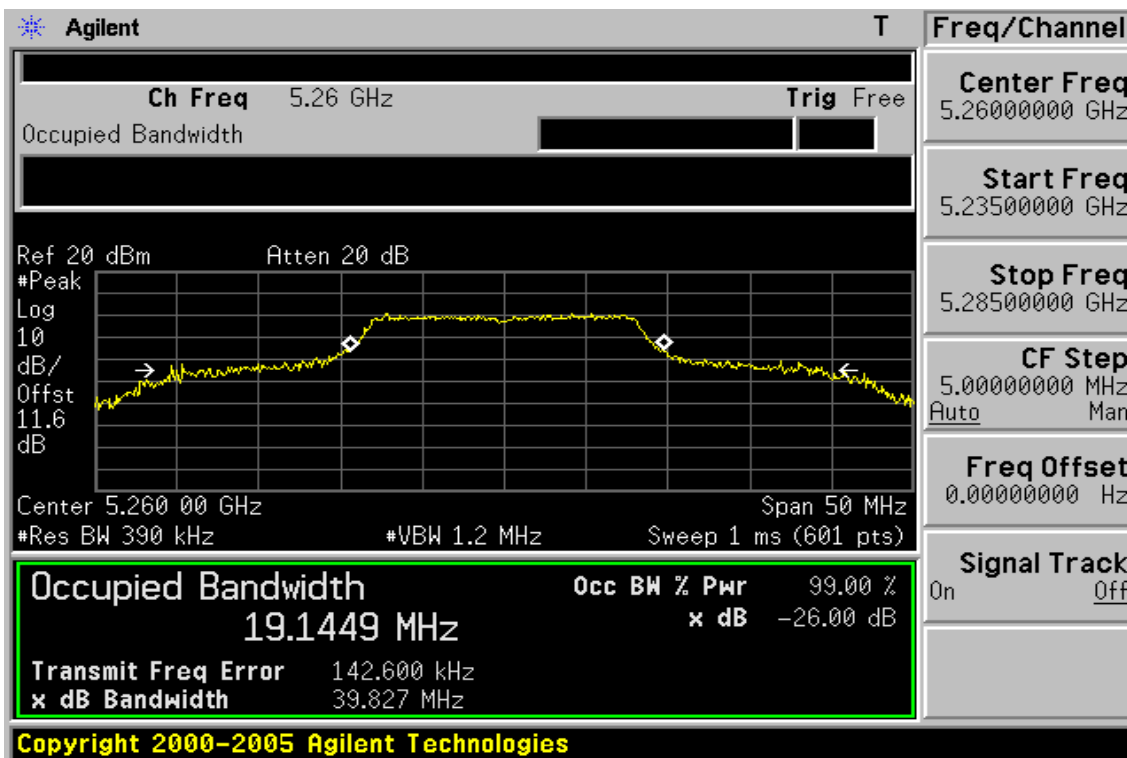
### 26dB Band Width Test Data CH-High (5240MHz)



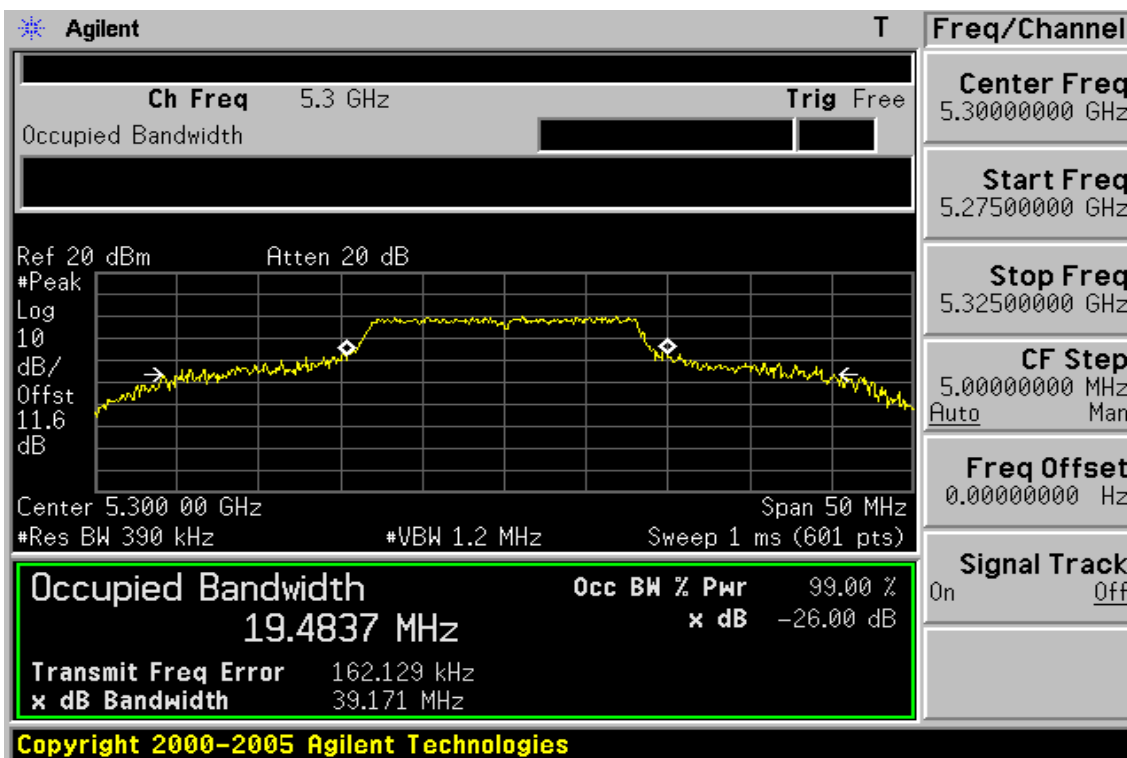
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**802.11a, 5250~5350 MHz**  
**26dB Band Width Test Data CH-Low (5260MHz)**



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

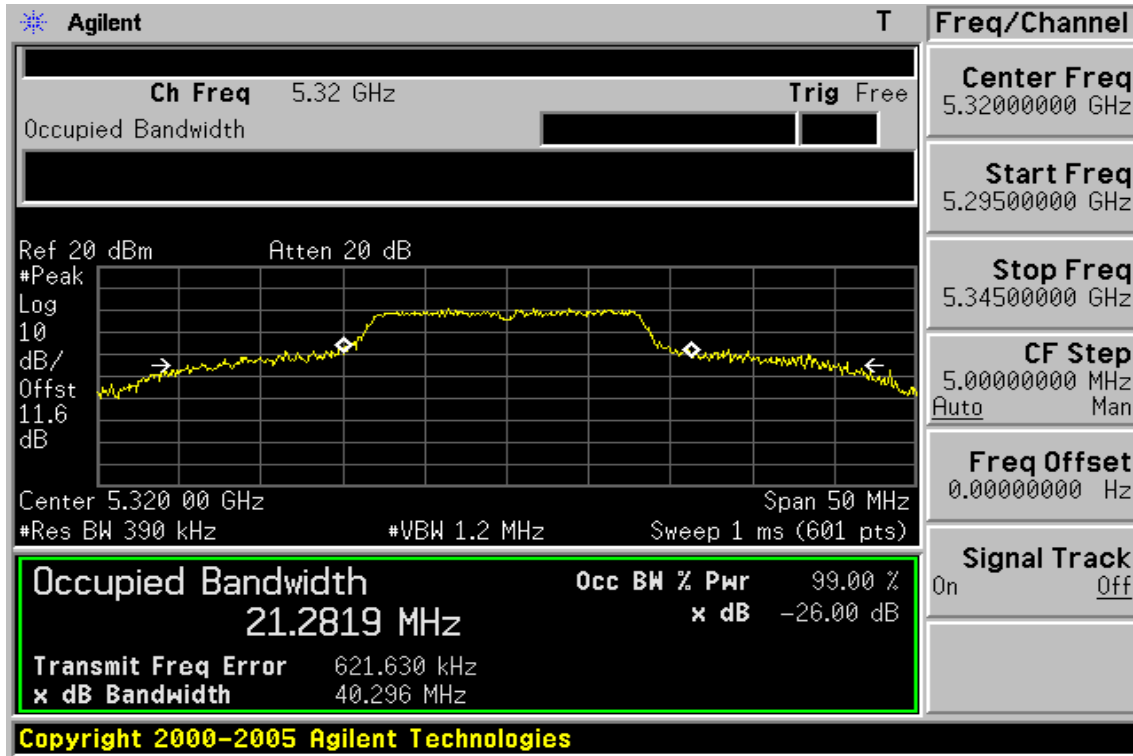


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### 26dB Band Width Test Data CH-High (5320MHz)

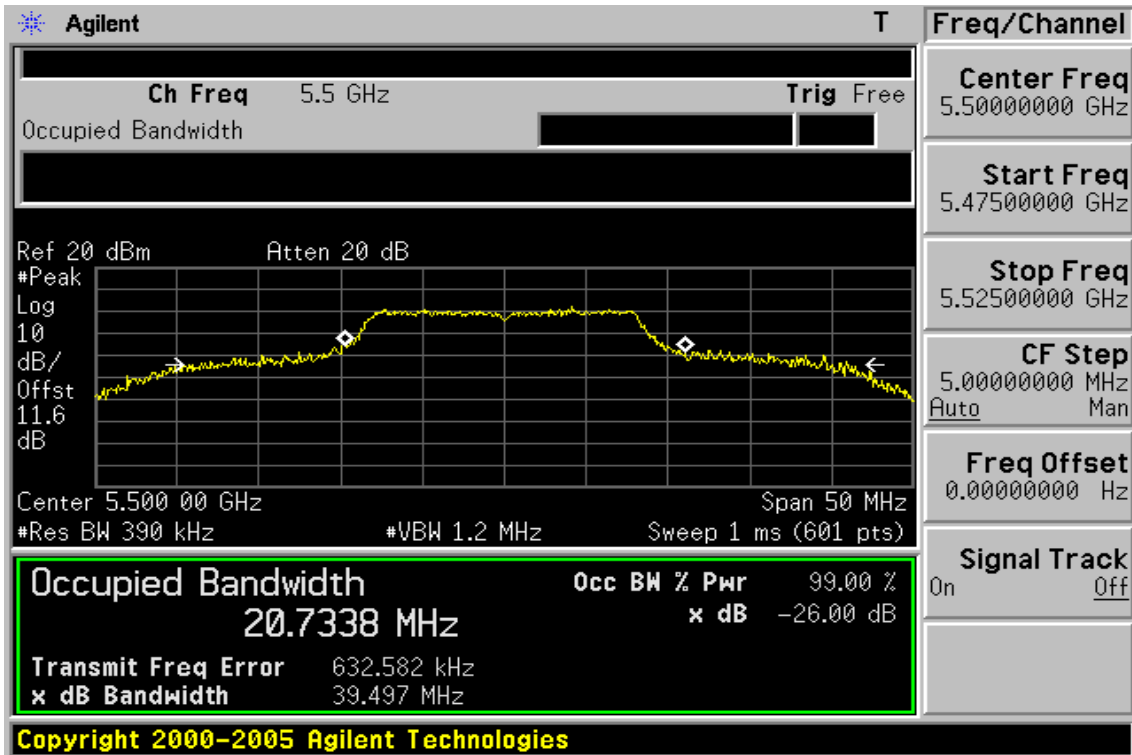


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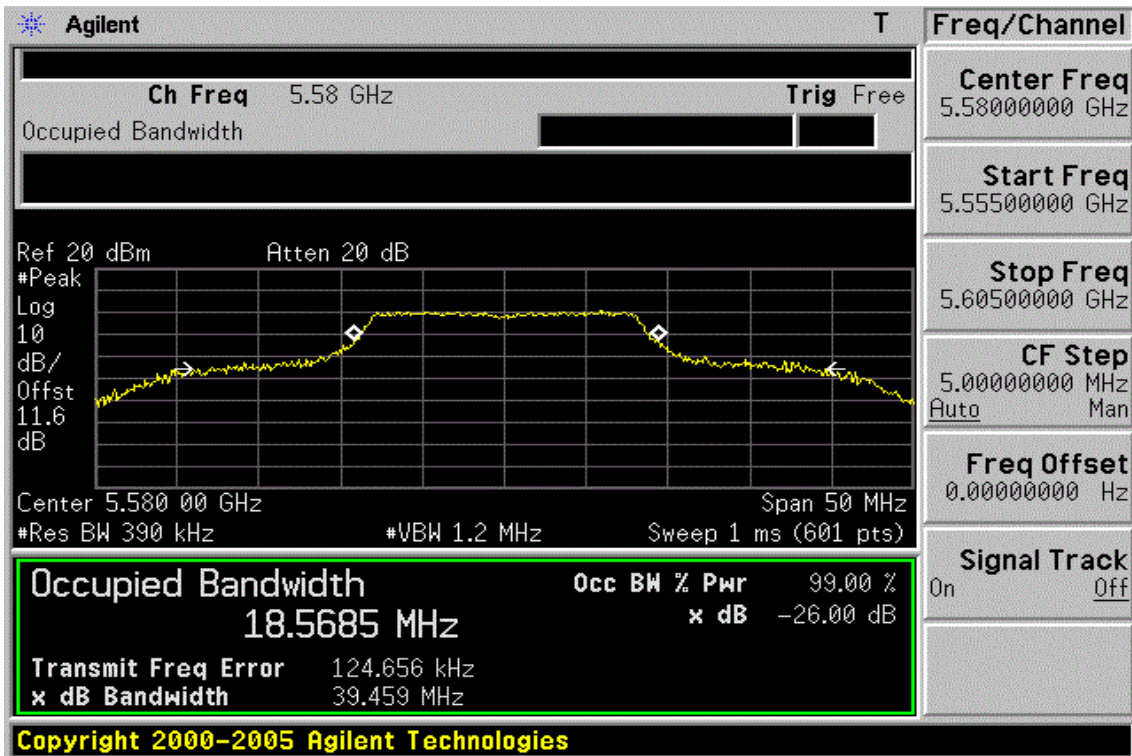
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802.11a, 5470~5725 MHz  
26dB Band Width Test Data CH-Low (5500MHz)



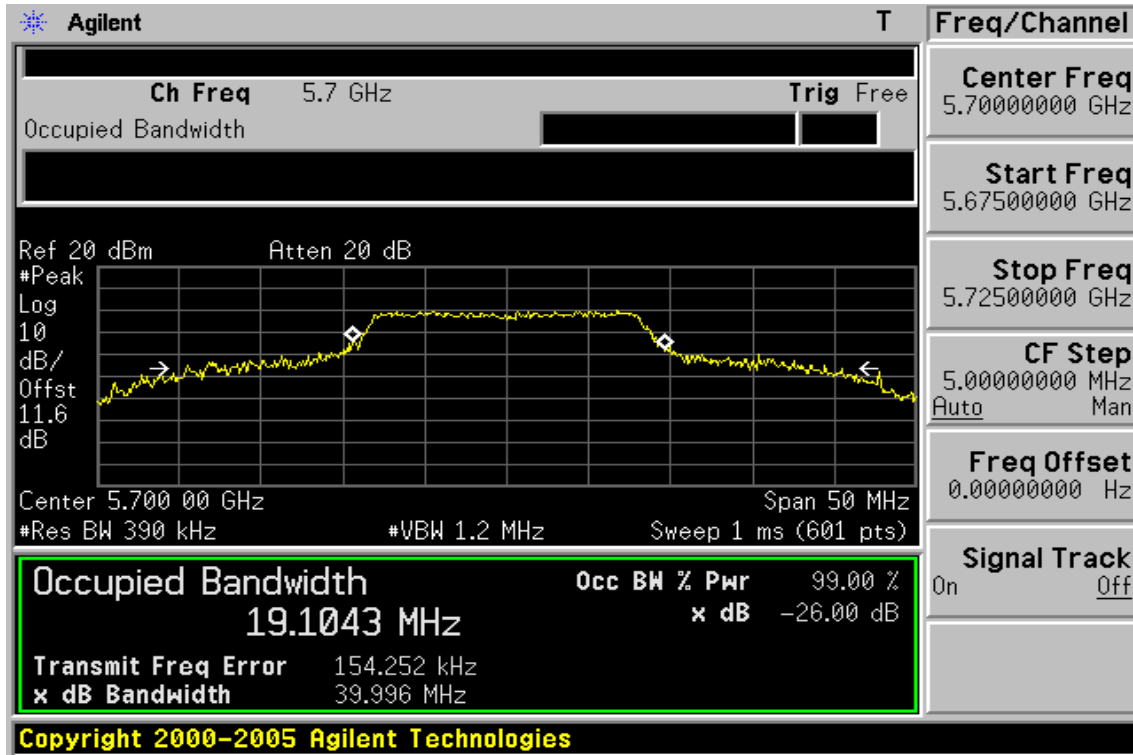
26dB Band Width Test Data CH-Mid (5580MHz)



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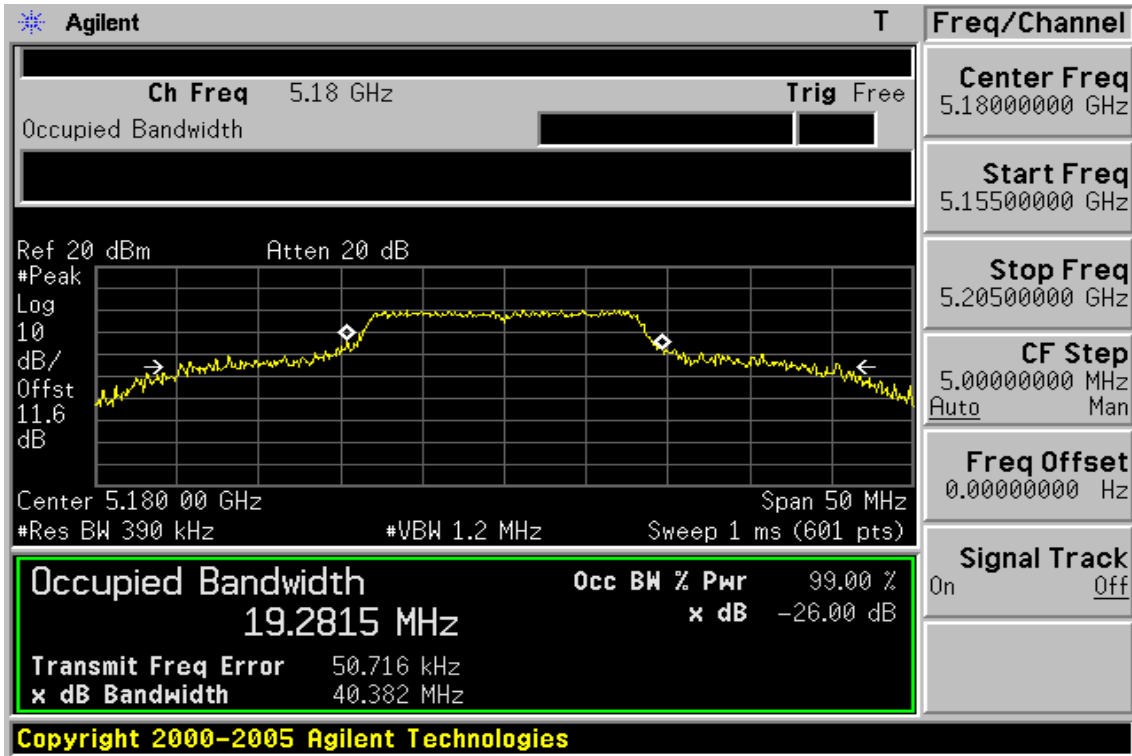
### 26dB Band Width Test Data CH-High (5700MHz)



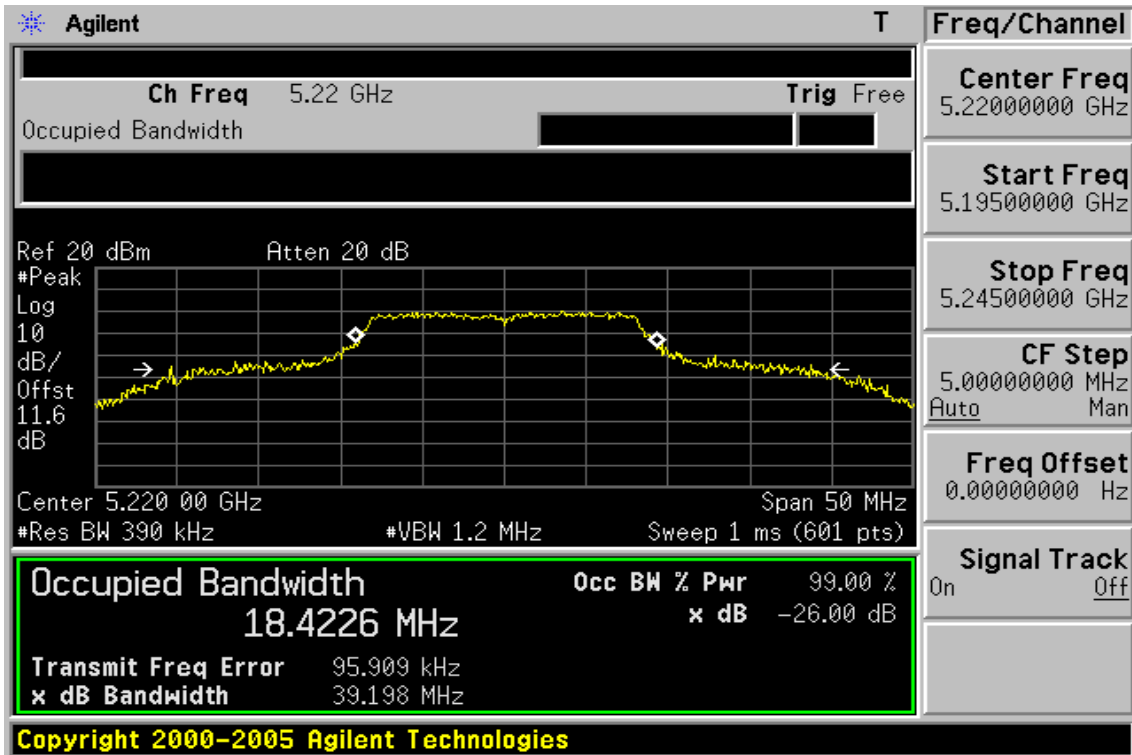
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**802.11n HT20, 5150~5250 MHz**  
**26dB Band Width Test Data CH-Low (5180 MHz)**



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

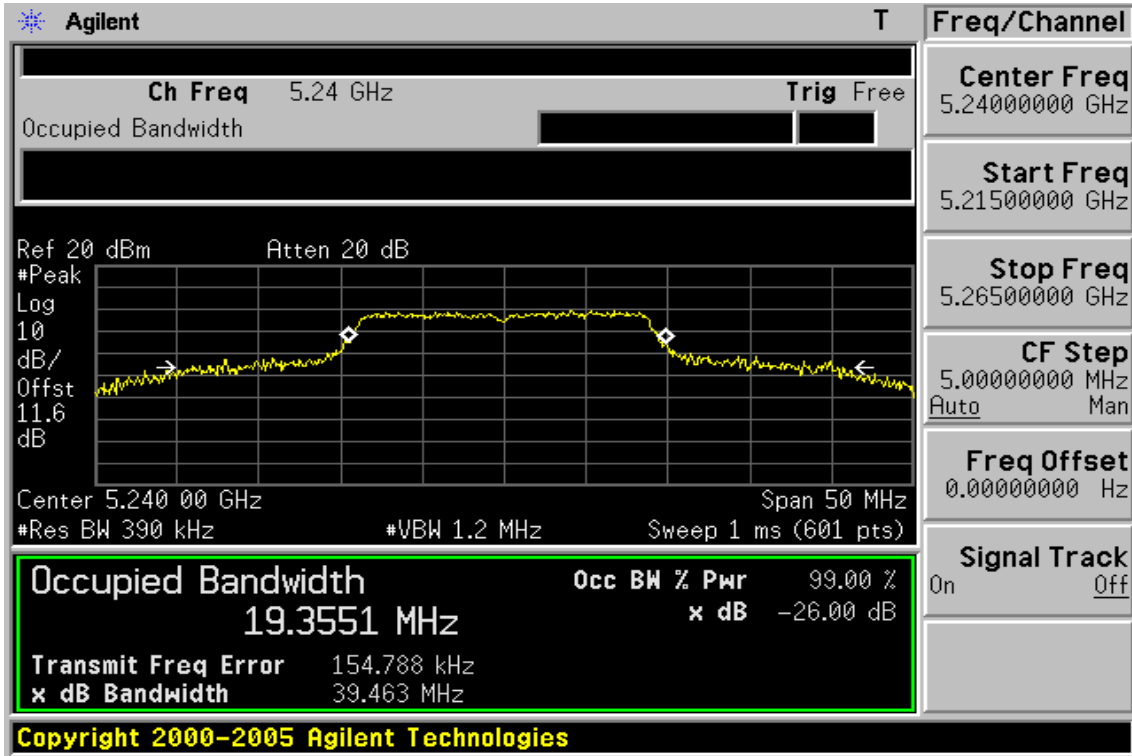


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### 26dB Band Width Test Data CH-High (5240 MHz)



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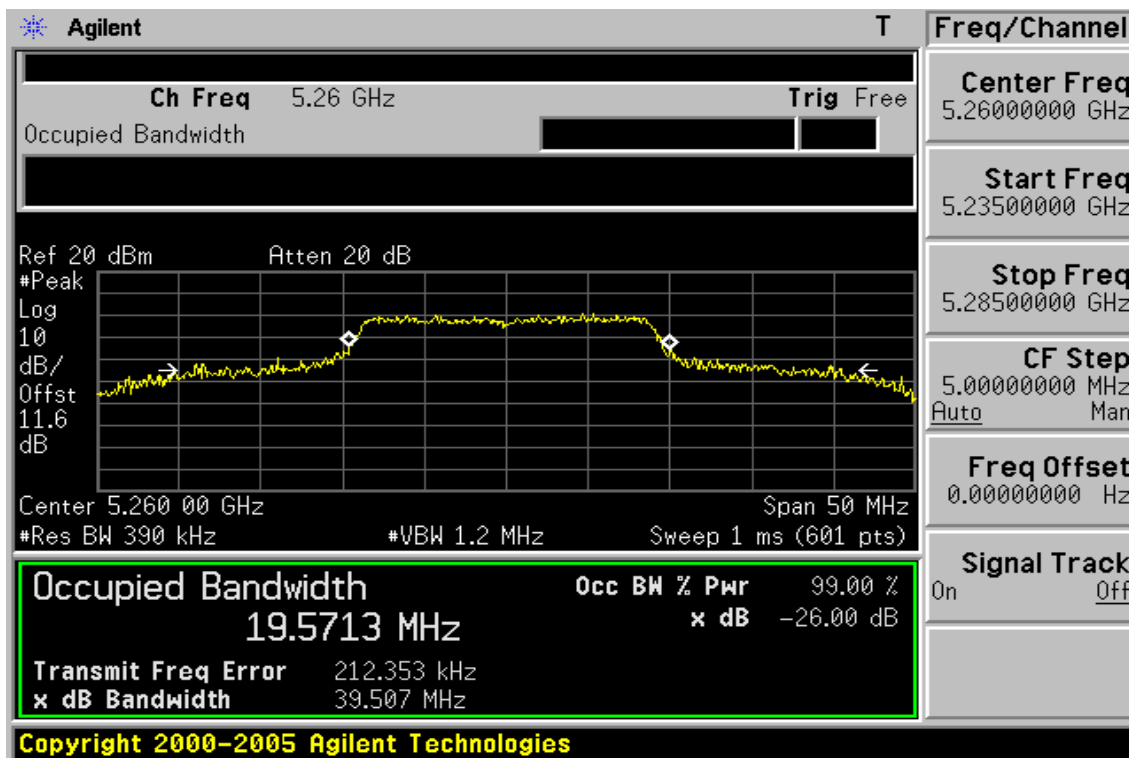
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f (886-2) 2298-0488

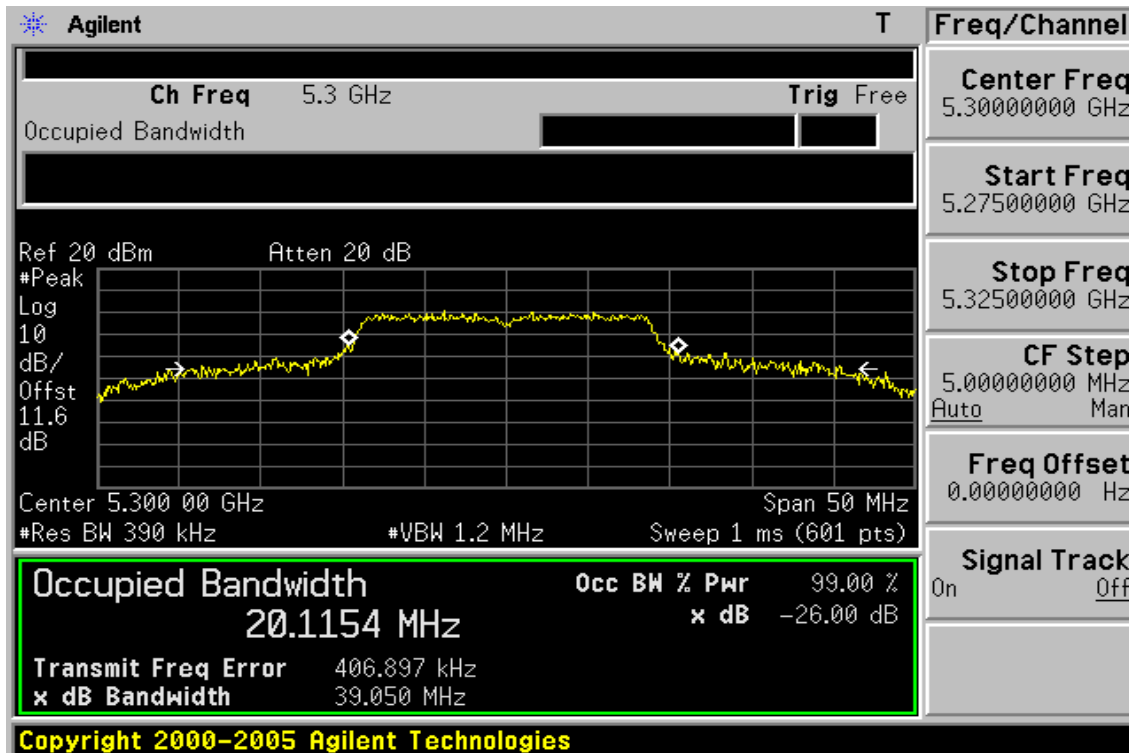
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**802.11n HT20, 5250~5350 MHz**  
**26dB Band Width Test Data CH-Low (5260 MHz)**



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

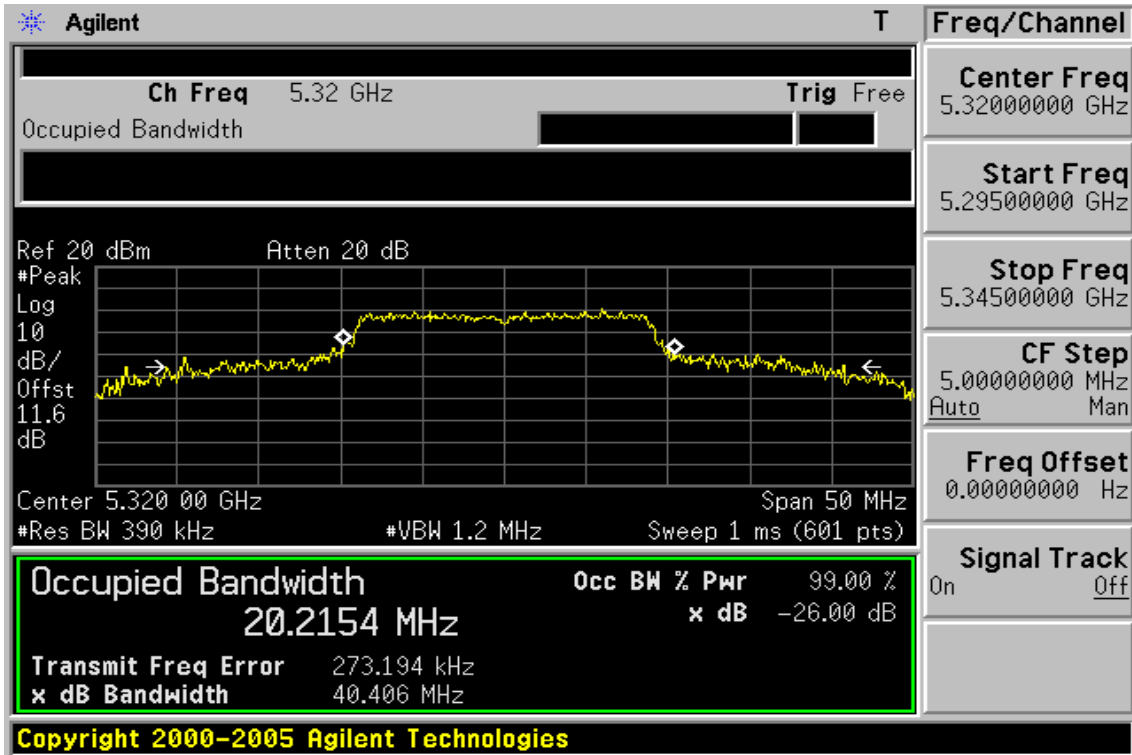


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### 26dB Band Width Test Data CH-High (5320 MHz)



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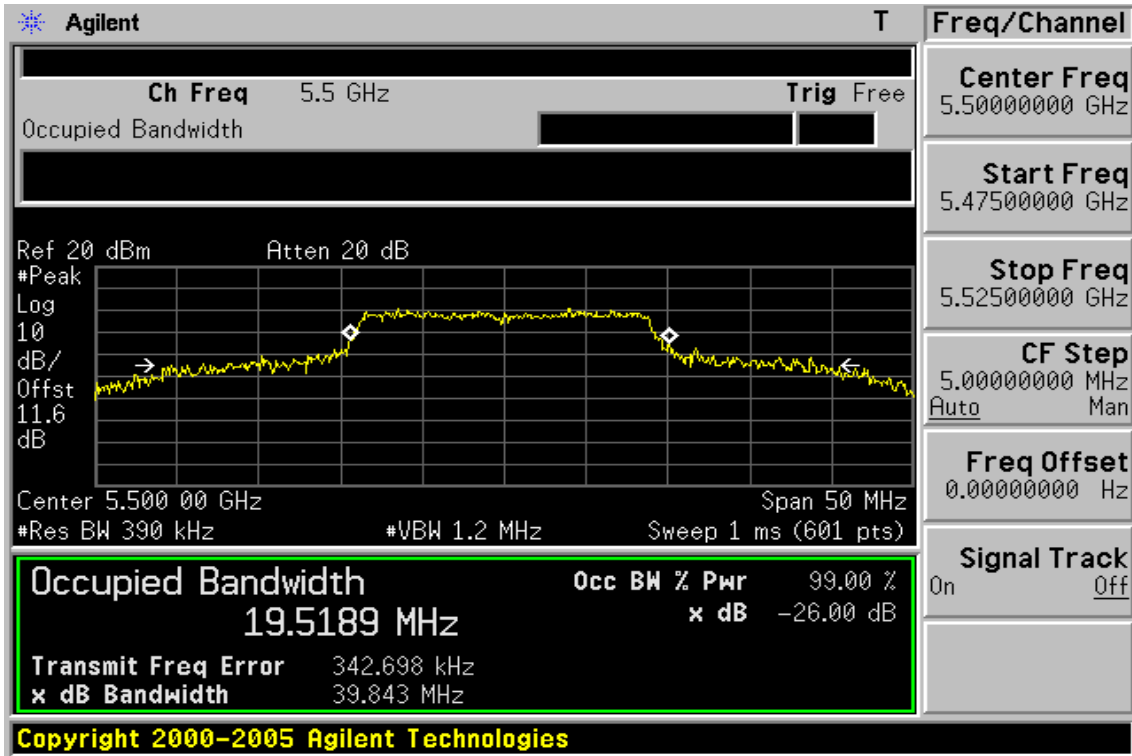
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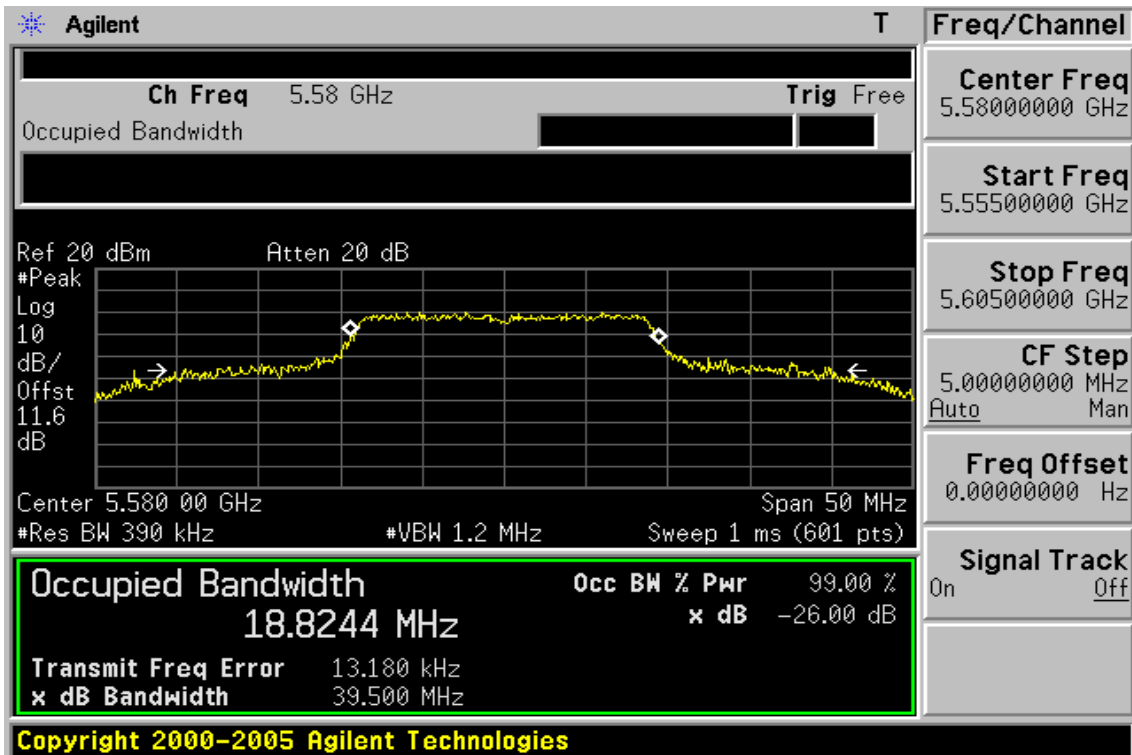
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**802.11n HT20, 5470~5725 MHz**  
**26dB Band Width Test Data CH-Low (5500 MHz)**



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



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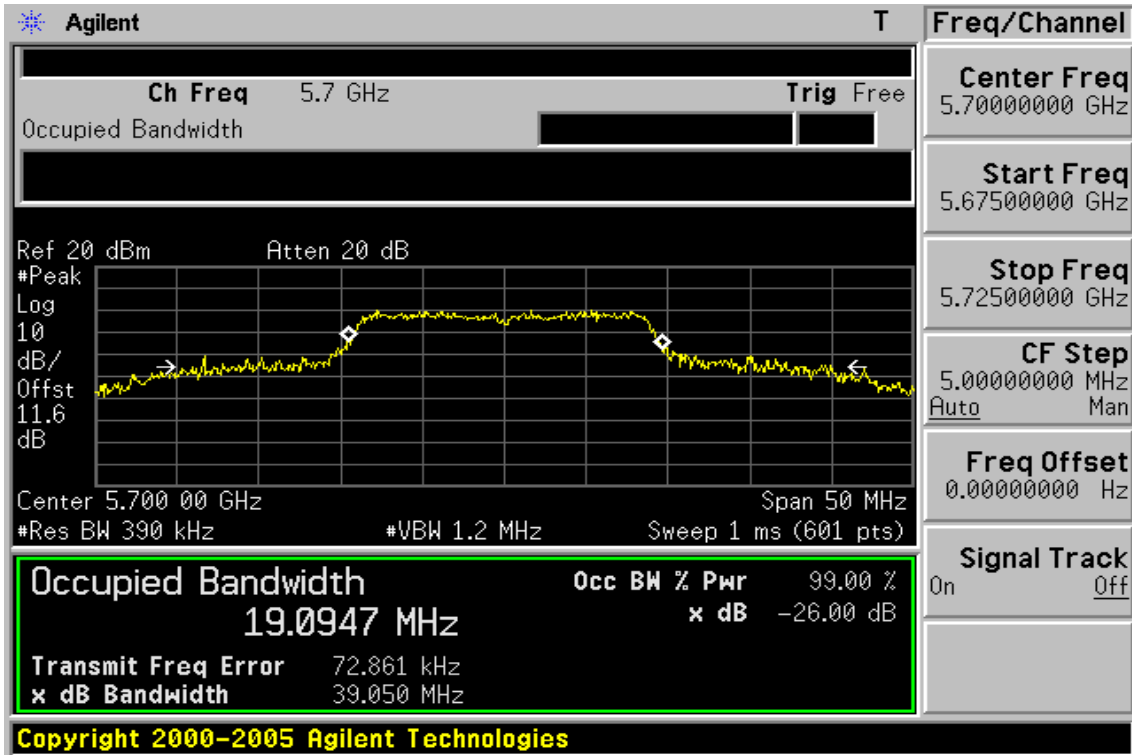
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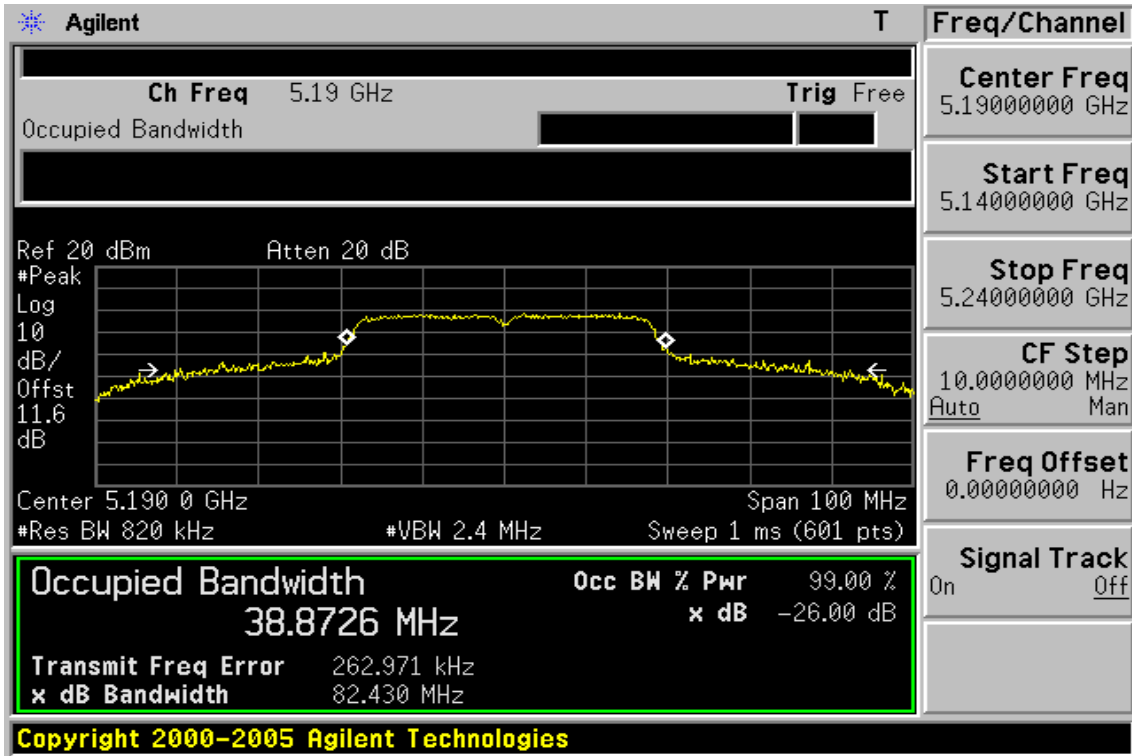
### 26dB Band Width Test Data CH-High (5700 MHz)



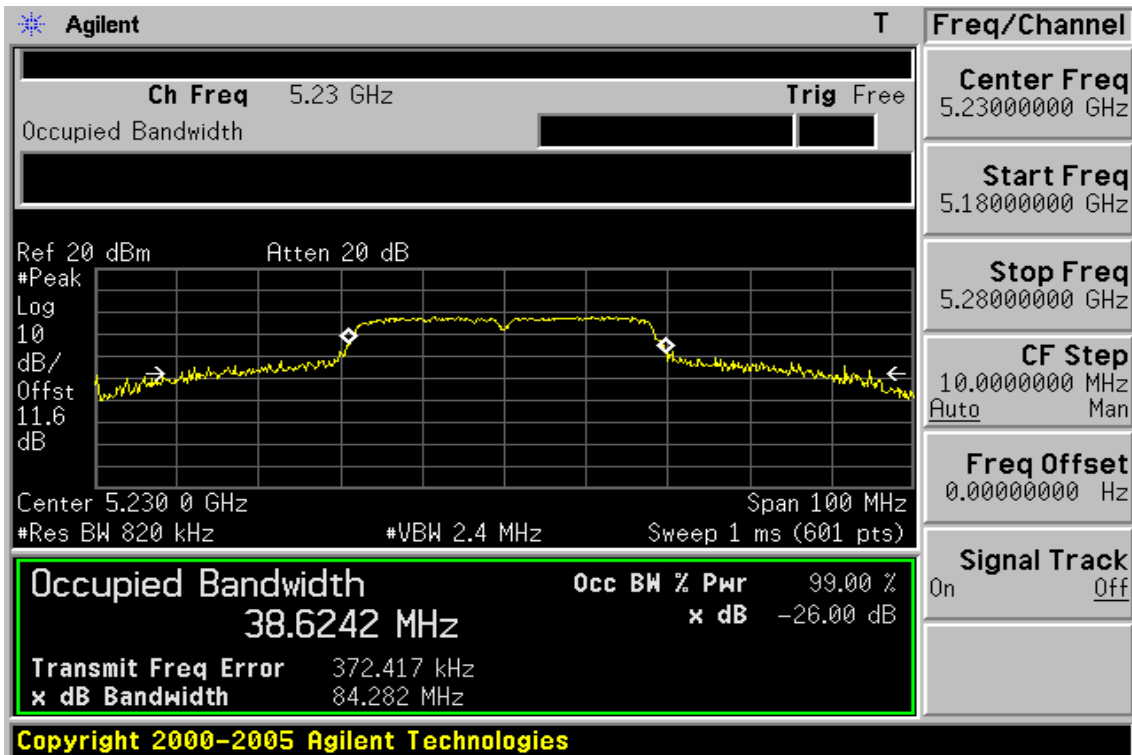
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**802.11n HT40, 5150~5250 MHz**  
**26dB Band Width Test Data CH-Low (5190 MHz)**



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

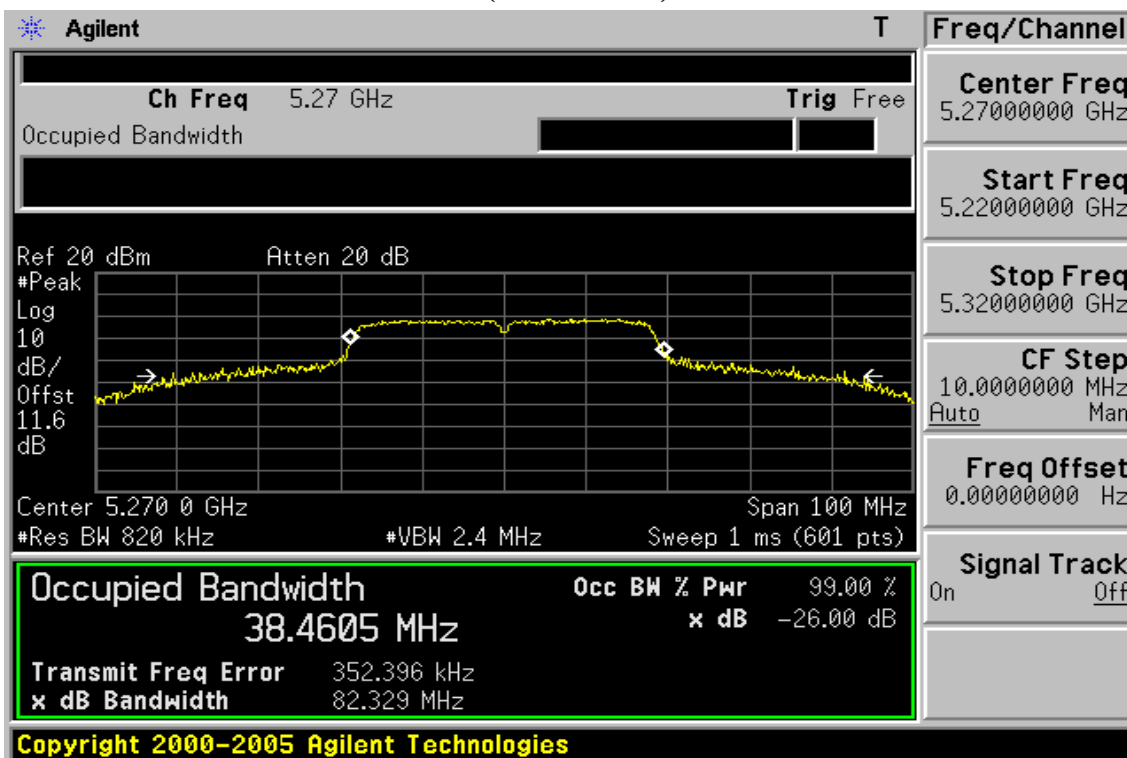


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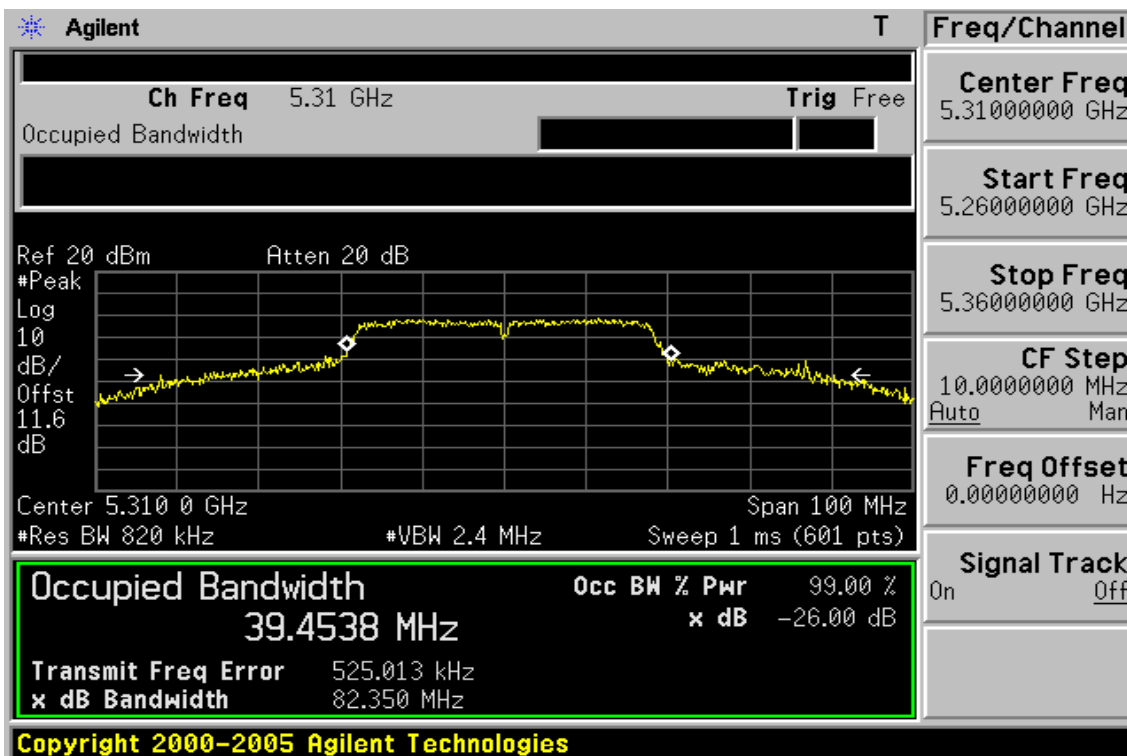
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**802.11n HT40, 5250~5350 MHz**  
**26dB Band Width Test Data CH-Low (5270 MHz)**



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

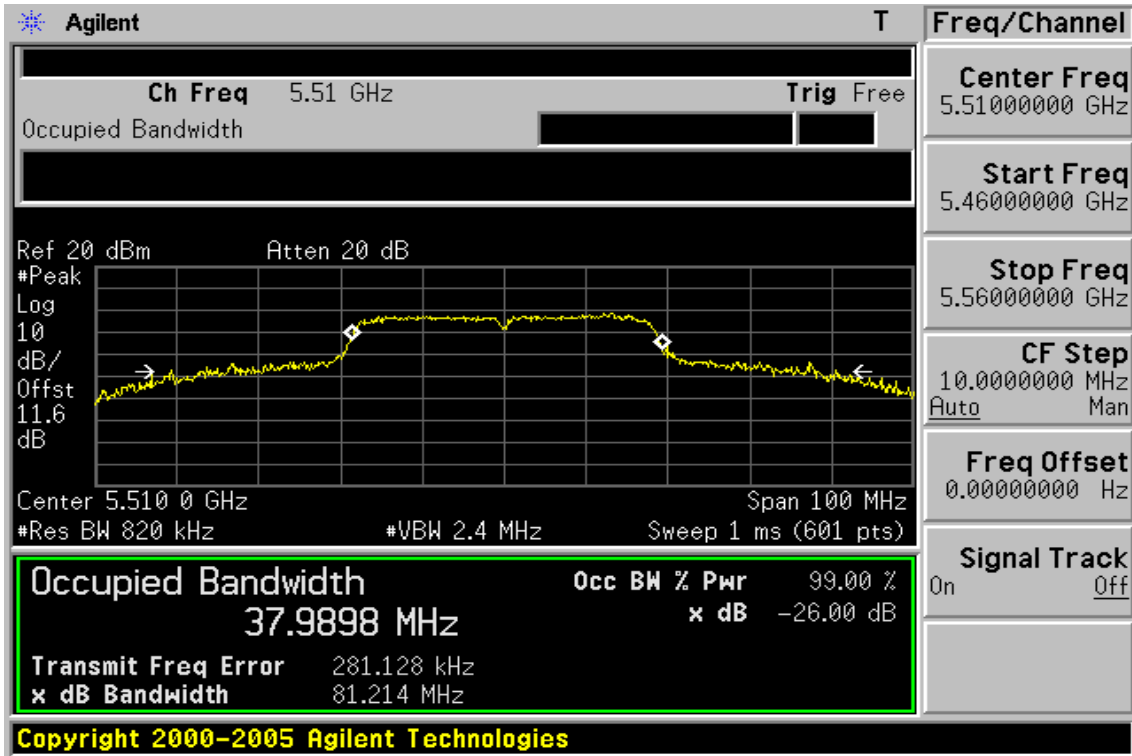


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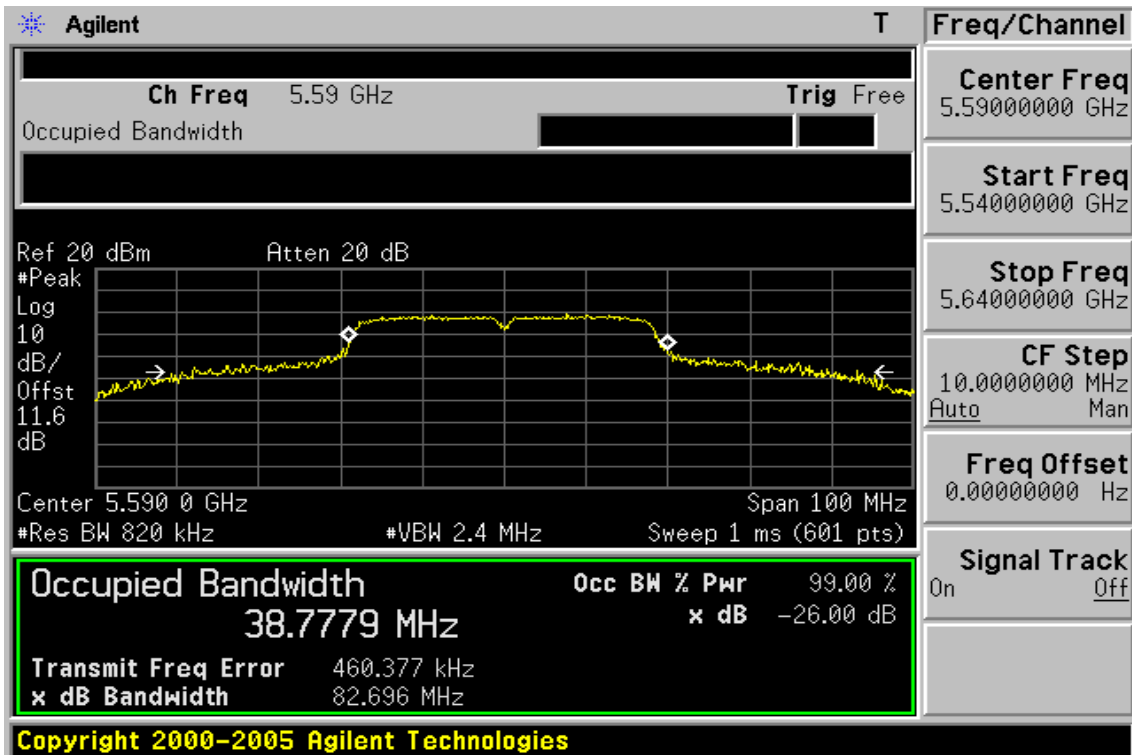
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**802.11n HT40, 5470~5725 MHz**  
**26dB Band Width Test Data CH-Low (5510 MHz)**



**26dB Band Width Test Data CH-Mid (5590 MHz)**



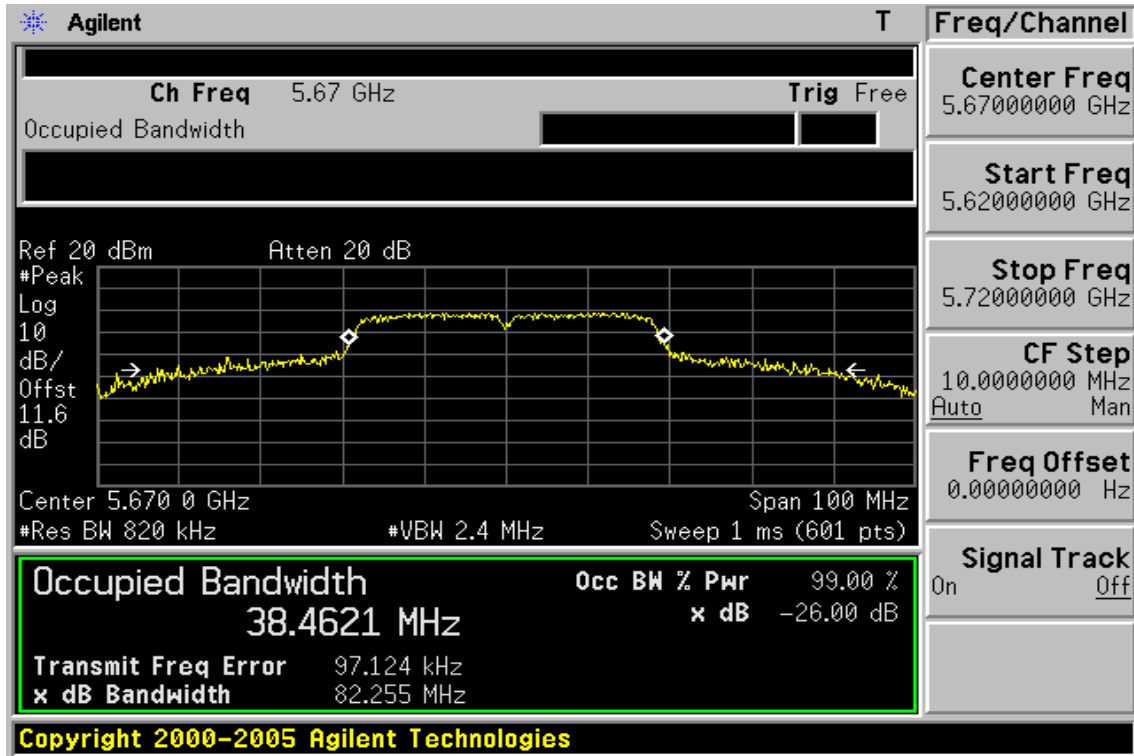
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### 26dB Band Width Test Data CH-High (5670 MHz)



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## 7.6 Measurement Result

### 99% Bandwidth

802.11a, 5150~5250 MHz

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5180	17.3326	12.39
5220	17.6538	12.47
5240	17.3830	12.40

802.11a, 5250~5350 MHz

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5260	17.3286	12.39
5300	17.5574	12.44
5320	17.4199	12.41

802.11a, 5470~5725 MHz

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5500	17.4970	12.43
5580	17.8753	12.52
5700	17.2168	12.36

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802.11n HT20, 5150~5250 MHz

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5180	18.1527	12.59
5220	18.4759	12.67
5240	18.2054	12.60

802.11n HT20, 5250~5350 MHz

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5260	18.2501	12.61
5300	18.4512	12.66
5320	18.3831	12.64

802.11n HT20, 5470~5725 MHz

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5500	18.3569	12.64
5580	18.5024	12.67
5700	18.0108	12.56

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802.11n HT40, 5150~5250 MHz

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5190	36.1592	15.58
5230	36.2414	15.59

802.11n HT40, 5250~5350 MHz

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5270	36.3417	15.60
5310	36.1258	15.58

802.11n HT40, 5470~5725 MHz

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5510	36.2047	15.59
5590	36.3927	15.61
5670	36.4138	15.61

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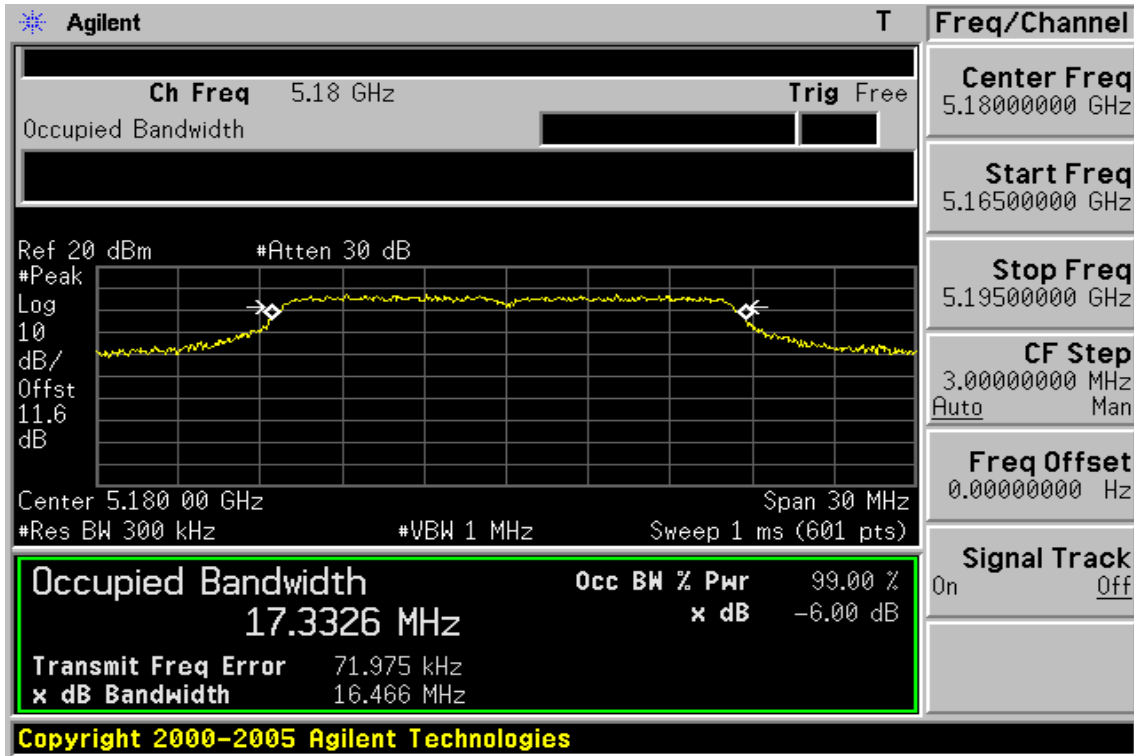
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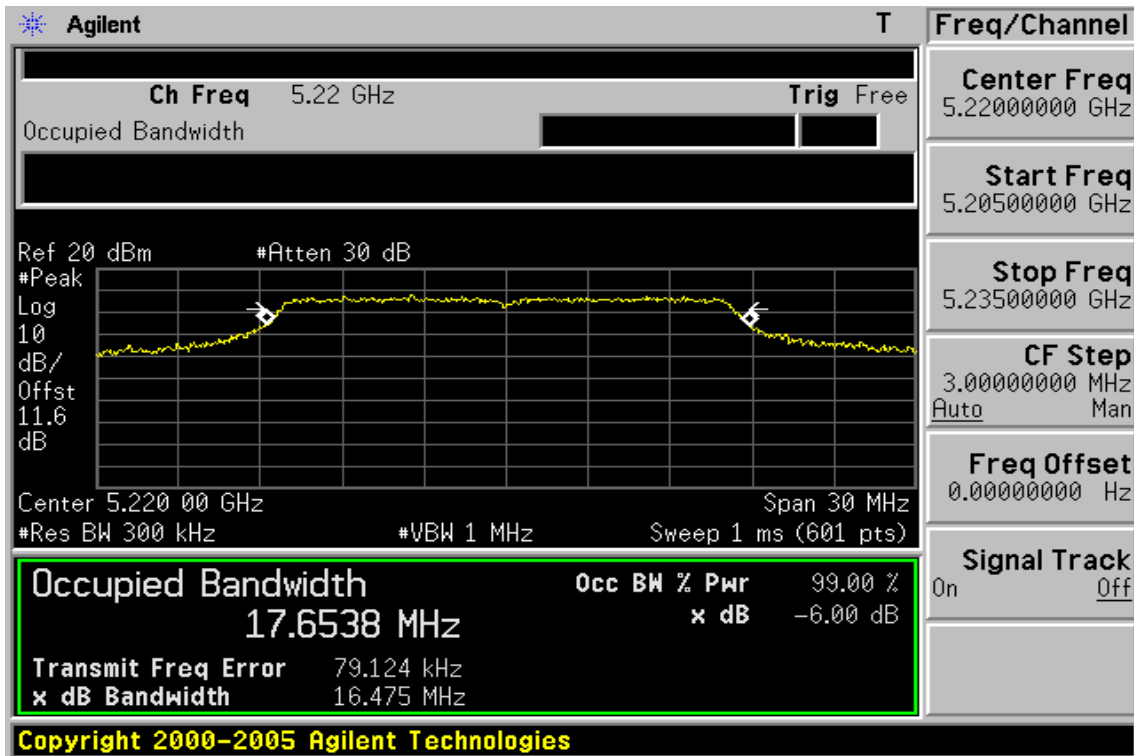
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802.11a, 5150~5250 MHz

99% Band Width Test Data CH-Low (5180MHz)



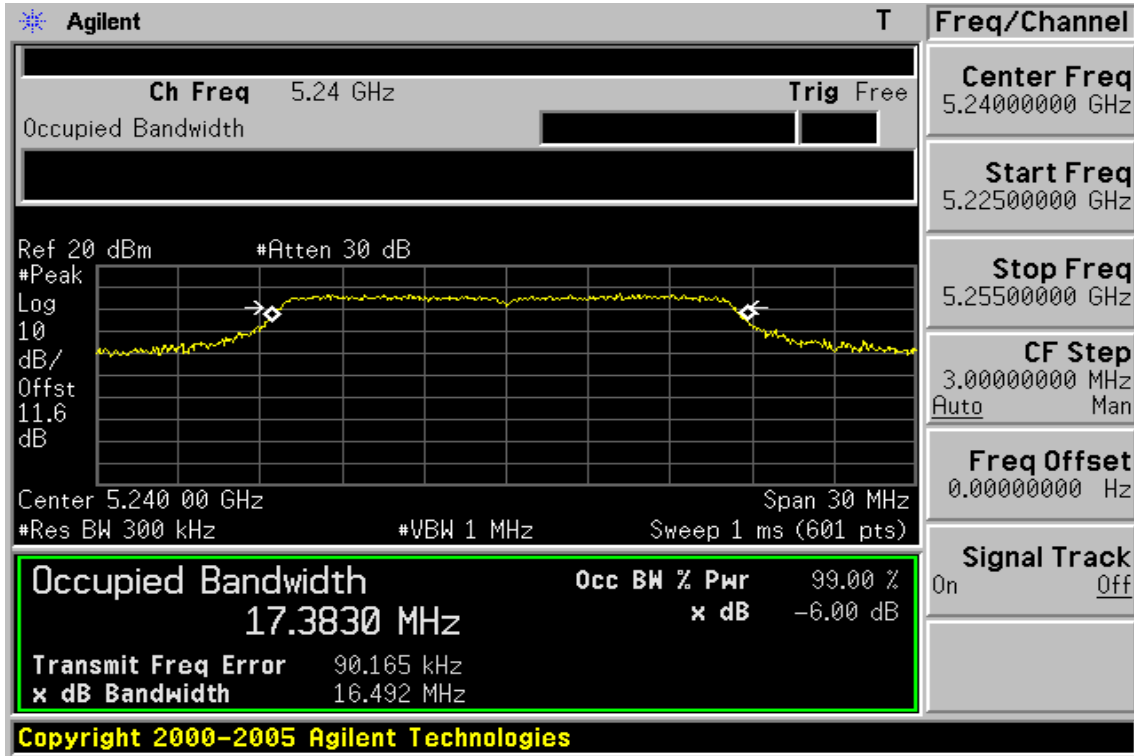
99% Band Width Test Data CH-Mid (5220MHz)



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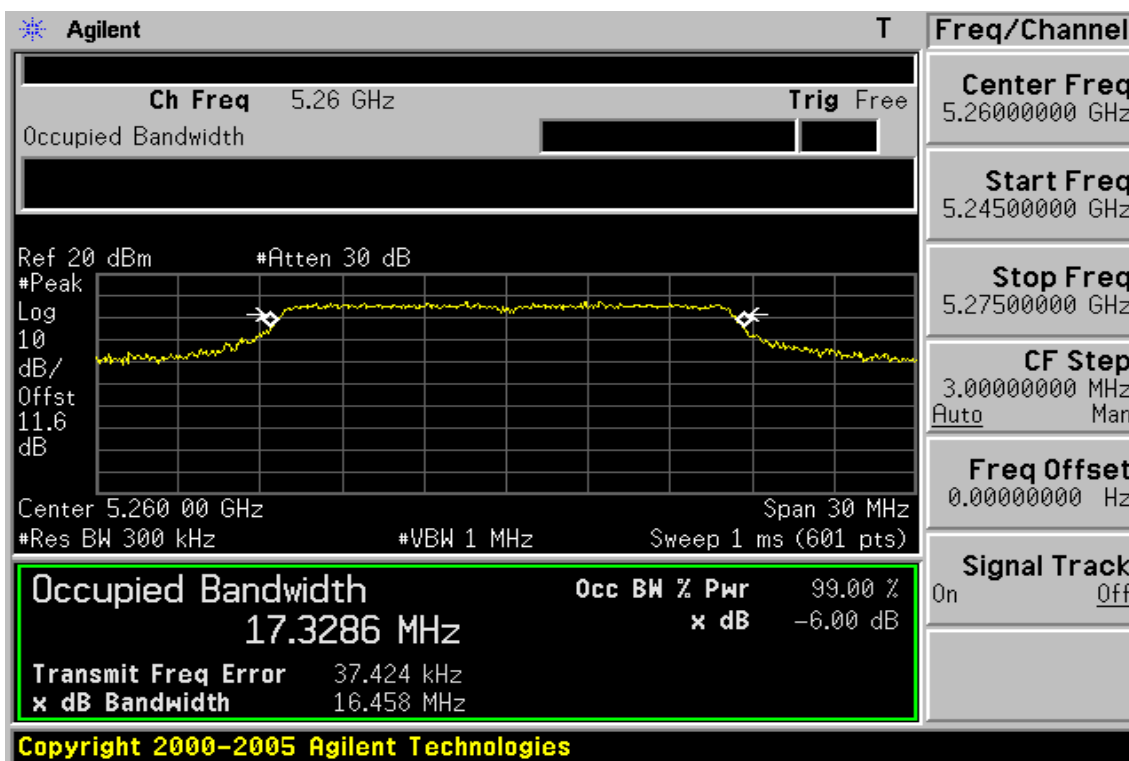
99% Band Width Test Data CH-High (5240MHz)



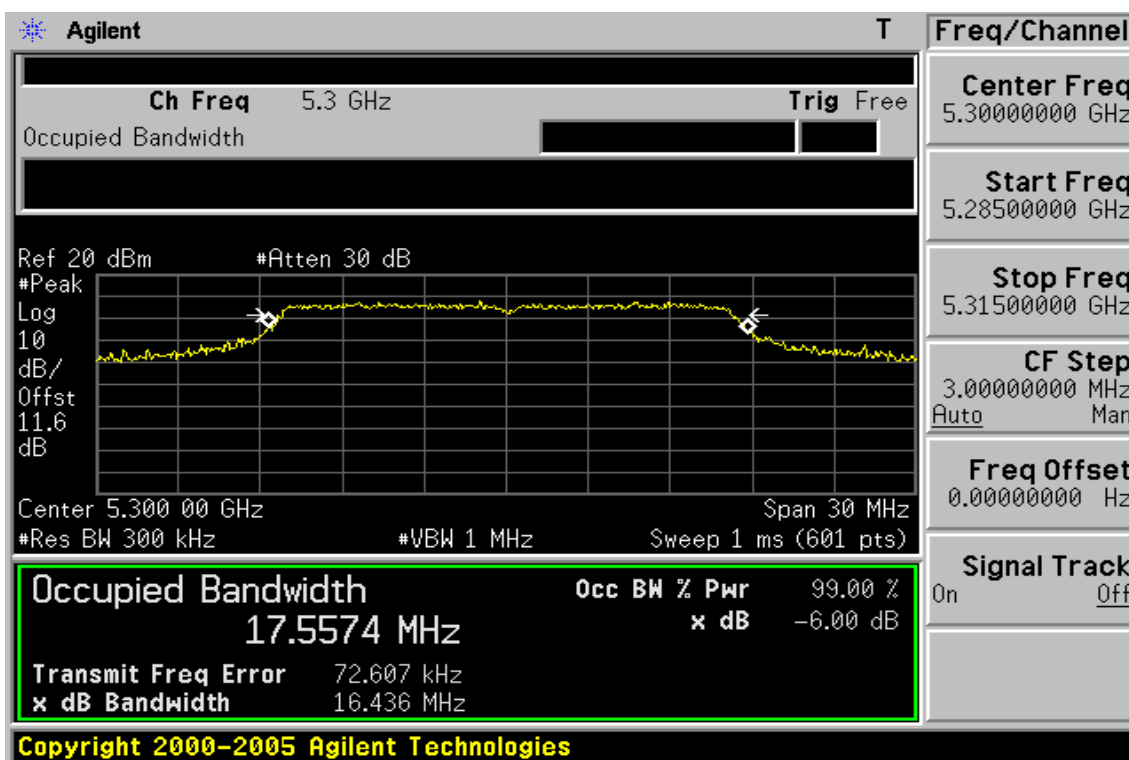
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**802.11a, 5250~5350 MHz**  
**99% Band Width Test Data CH-Low (5260MHz)**



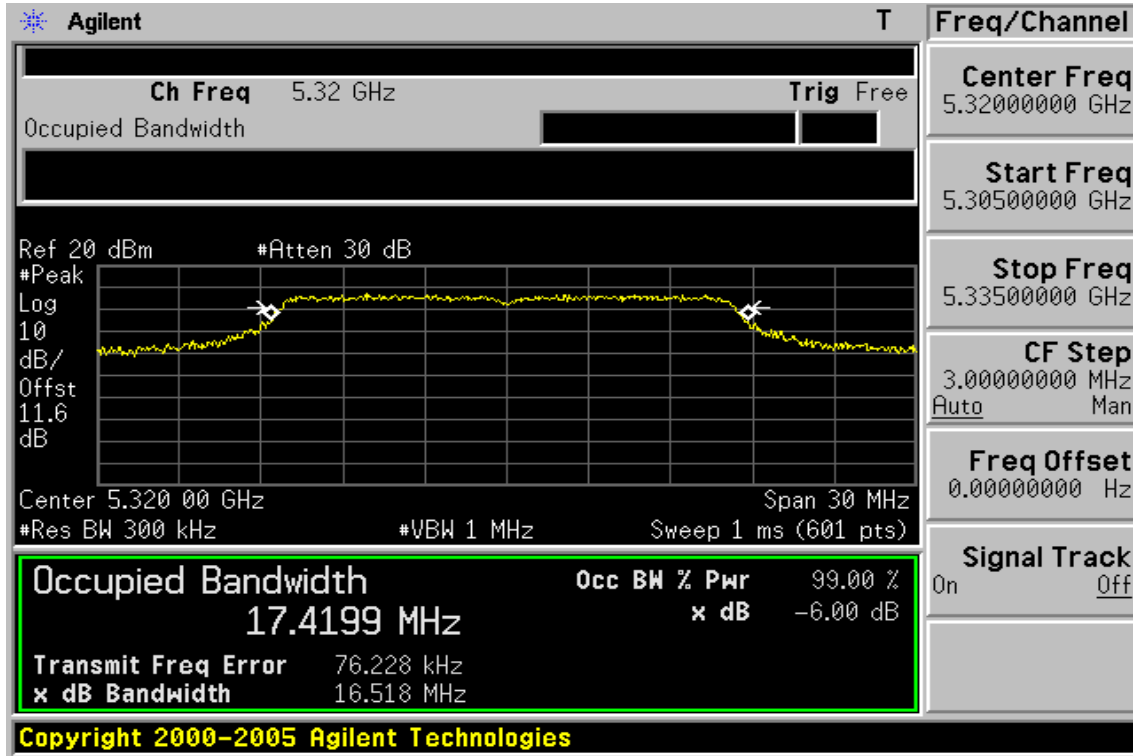
**99% Band Width Test Data CH-Mid (5300MHz)**



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99% Band Width Test Data CH-High (5320MHz)



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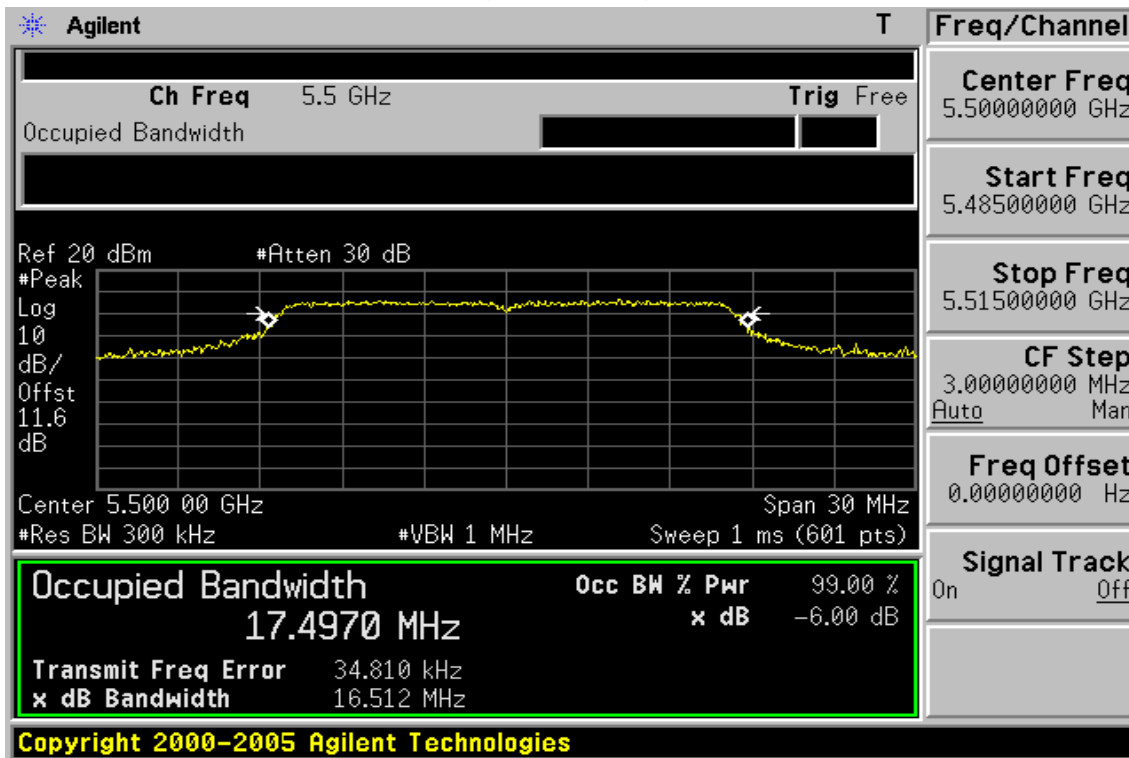
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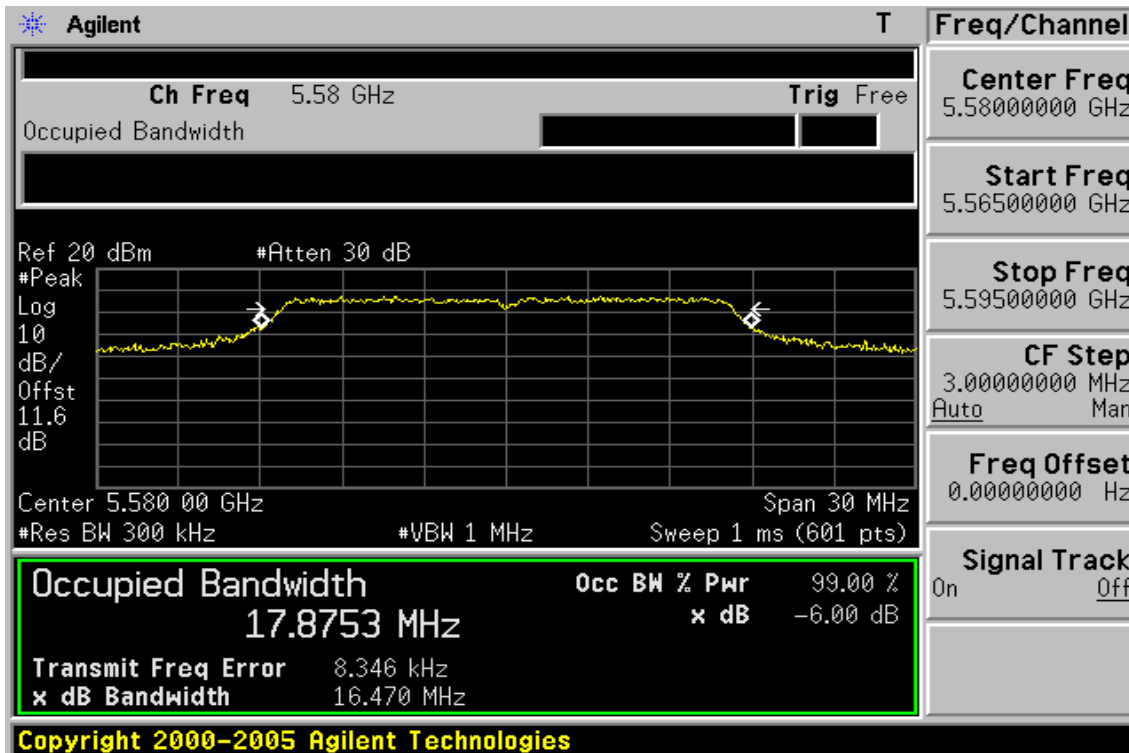
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**802.11a, 5470~5725 MHz**  
**99% Band Width Test Data CH-Low (5500MHz)**



**99% Band Width Test Data CH-Mid (5580MHz)**

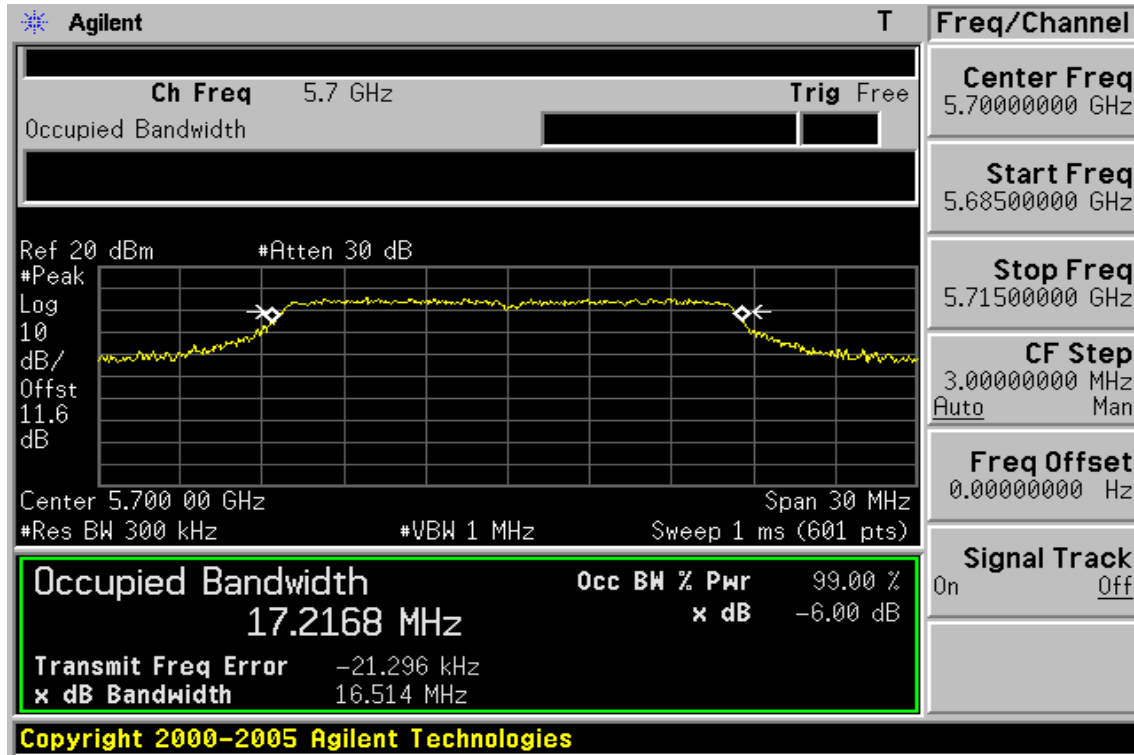


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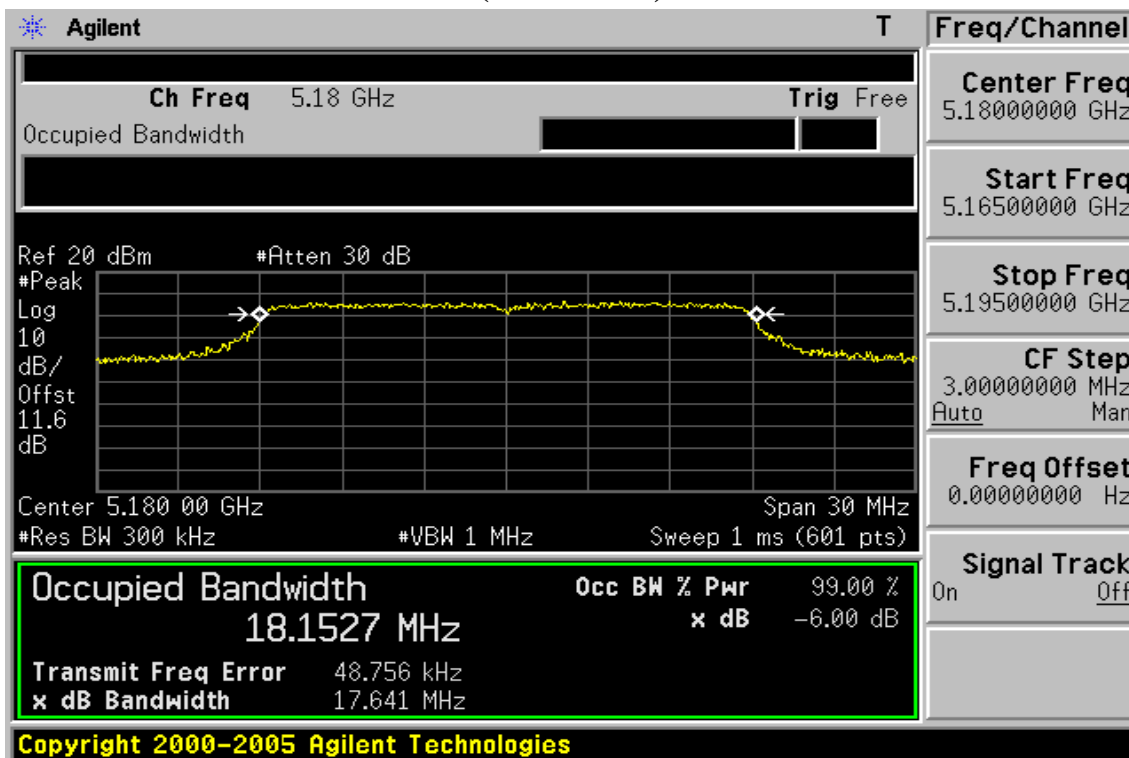
### 99% Band Width Test Data CH-High (5700MHz)



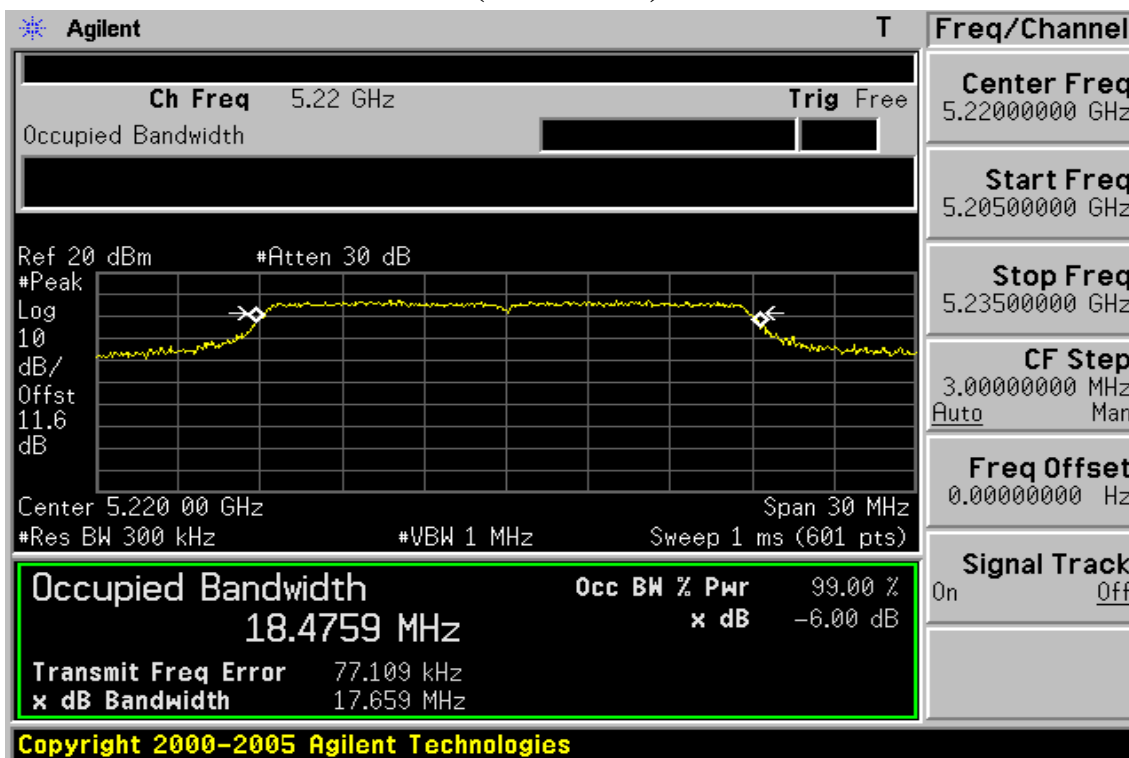
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**802.11n HT20, 5150~5250 MHz**  
**99% Band Width Test Data CH-Low (5180 MHz)**



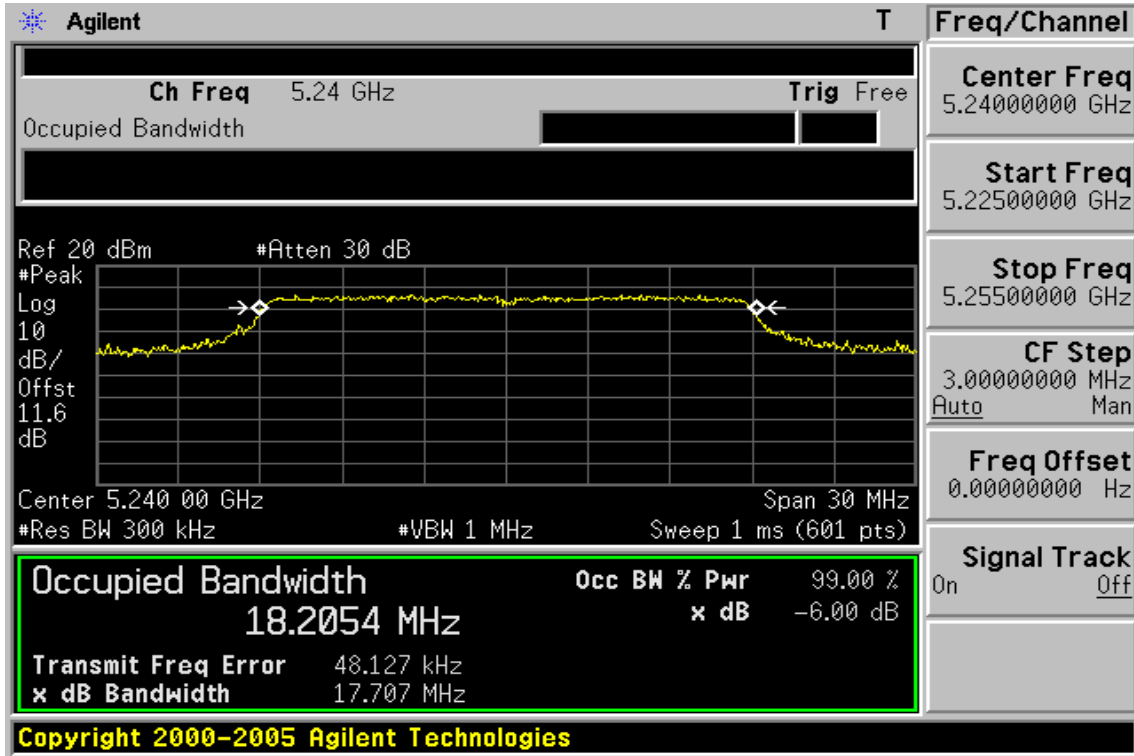
**99% Band Width Test Data CH-Mid (5220 MHz)**



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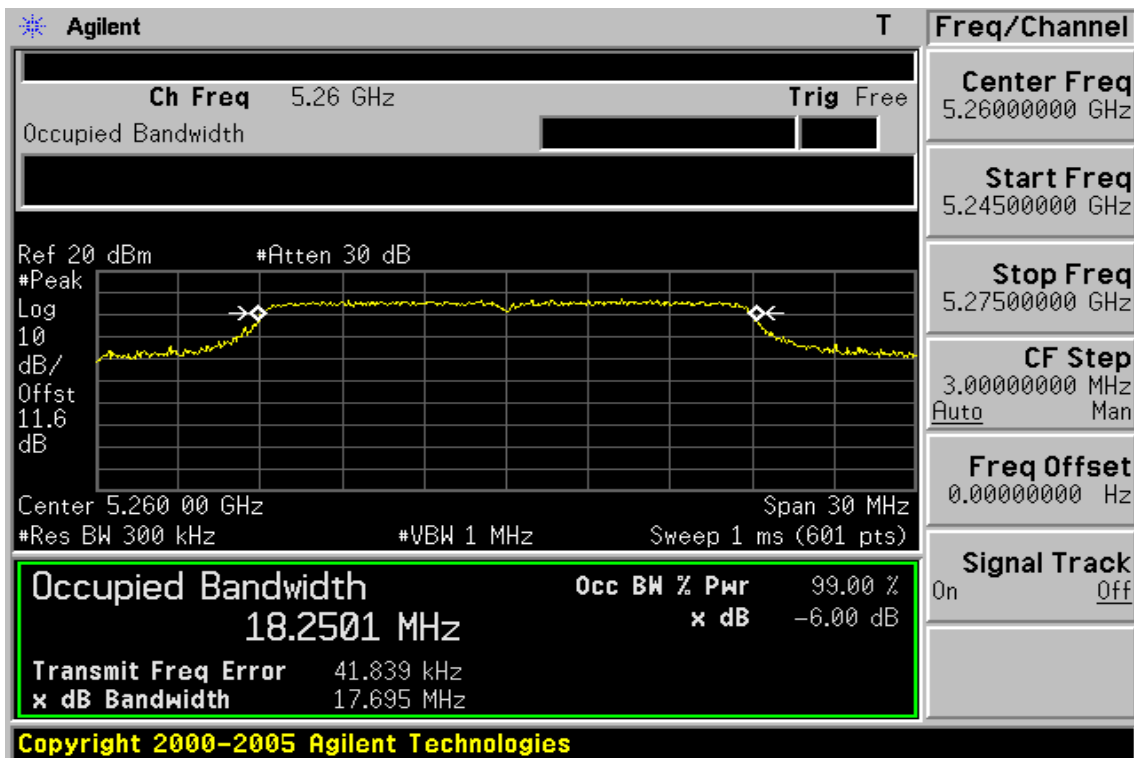
### 99% Band Width Test Data CH-High (5240 MHz)



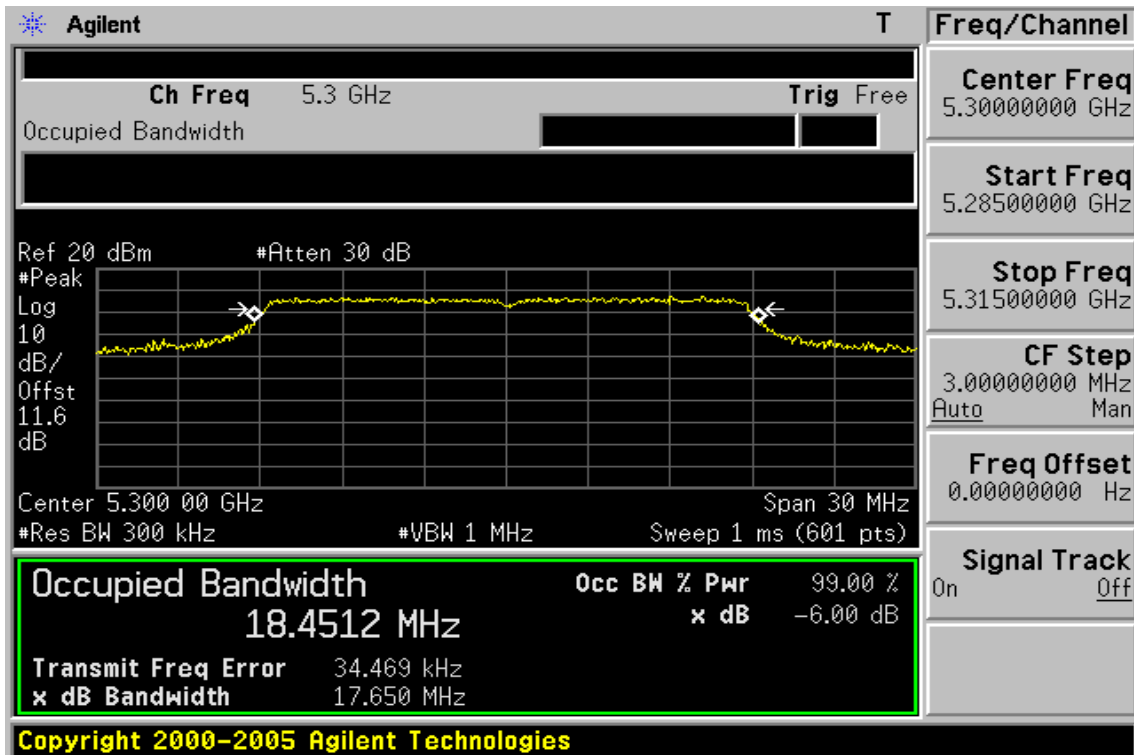
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**802.11n HT20, 5250~5350 MHz**  
**99% Band Width Test Data CH-Low (5260 MHz)**



**99% Band Width Test Data CH-Mid (5300 MHz)**



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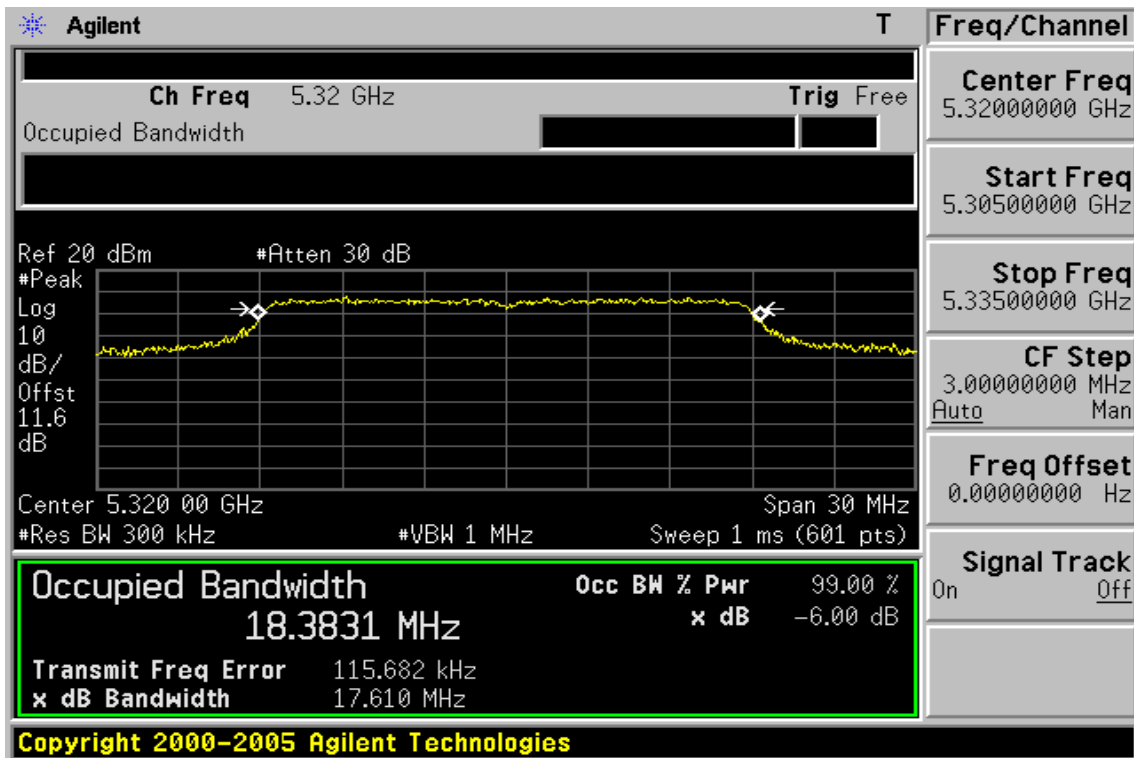
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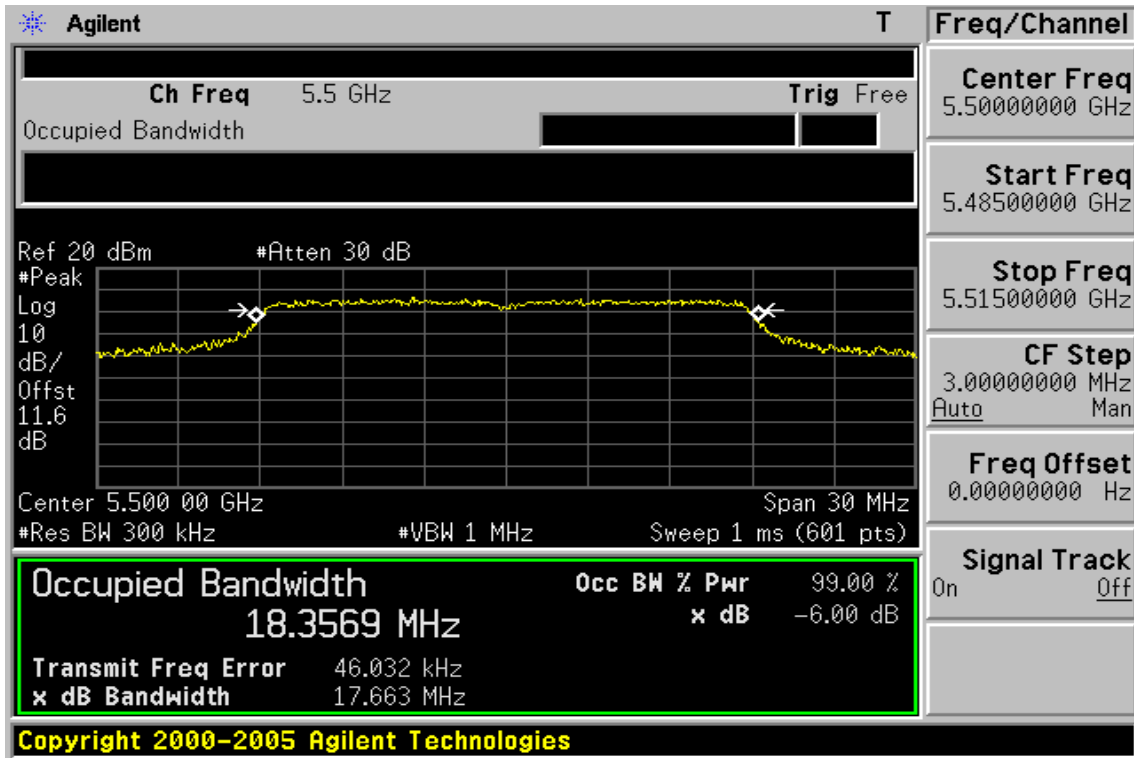
**99% Band Width Test Data CH-High (5320 MHz)**



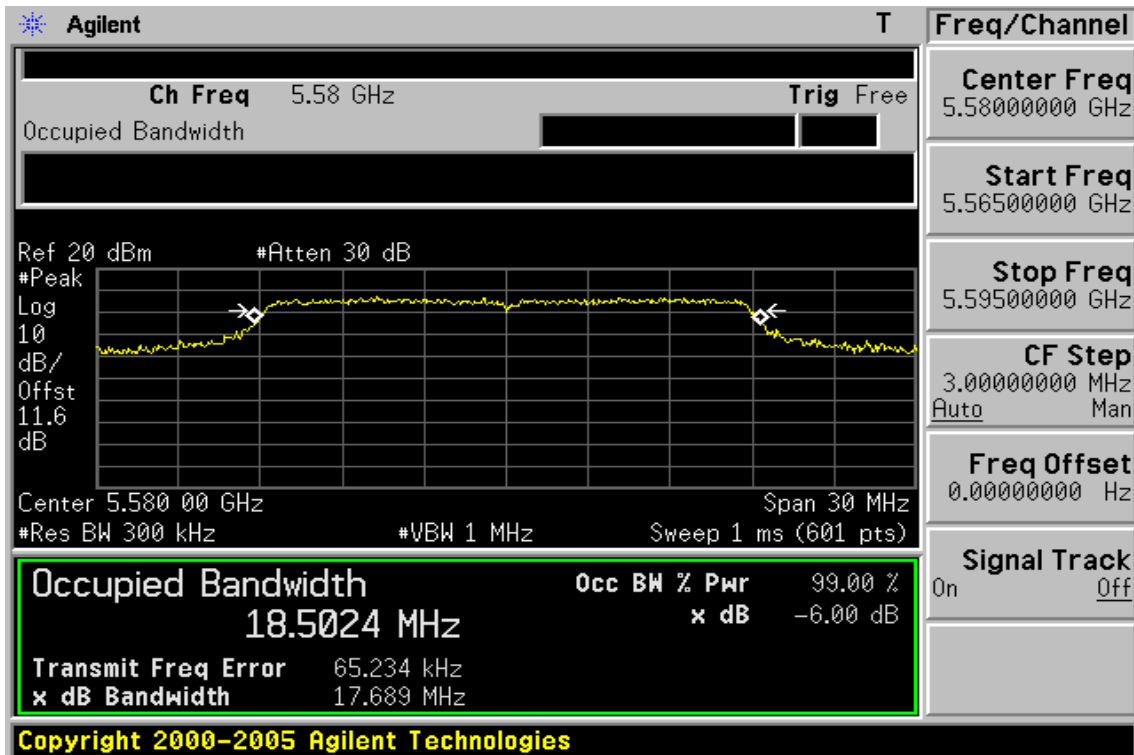
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**802.11n HT20, 5470~5725 MHz**  
**99% Band Width Test Data CH-Low (5500 MHz)**



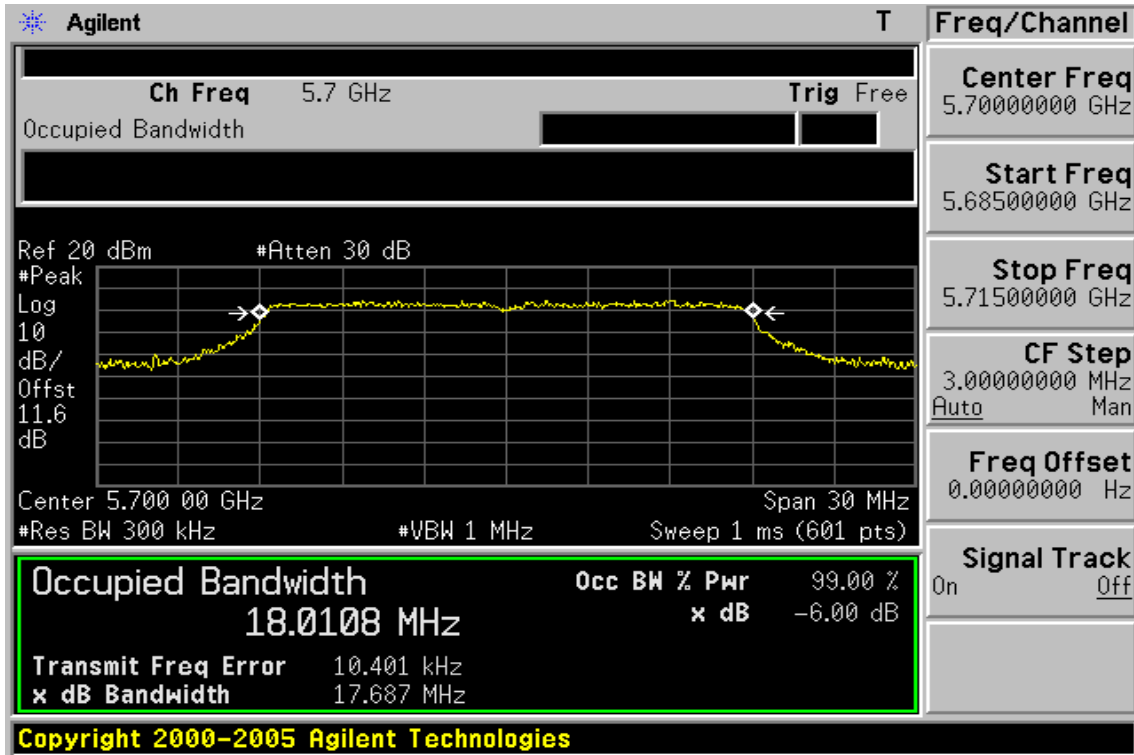
**99% Band Width Test Data CH-Mid (5580 MHz)**



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### 99% Band Width Test Data CH-High (5700 MHz)



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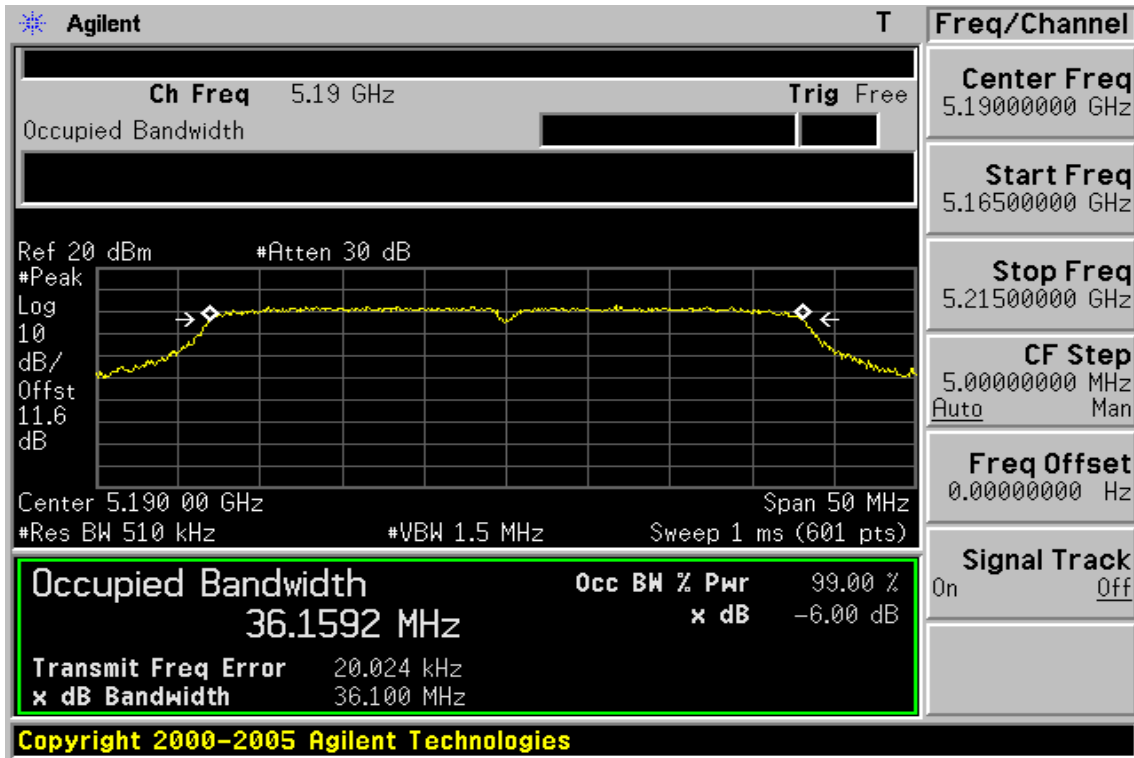
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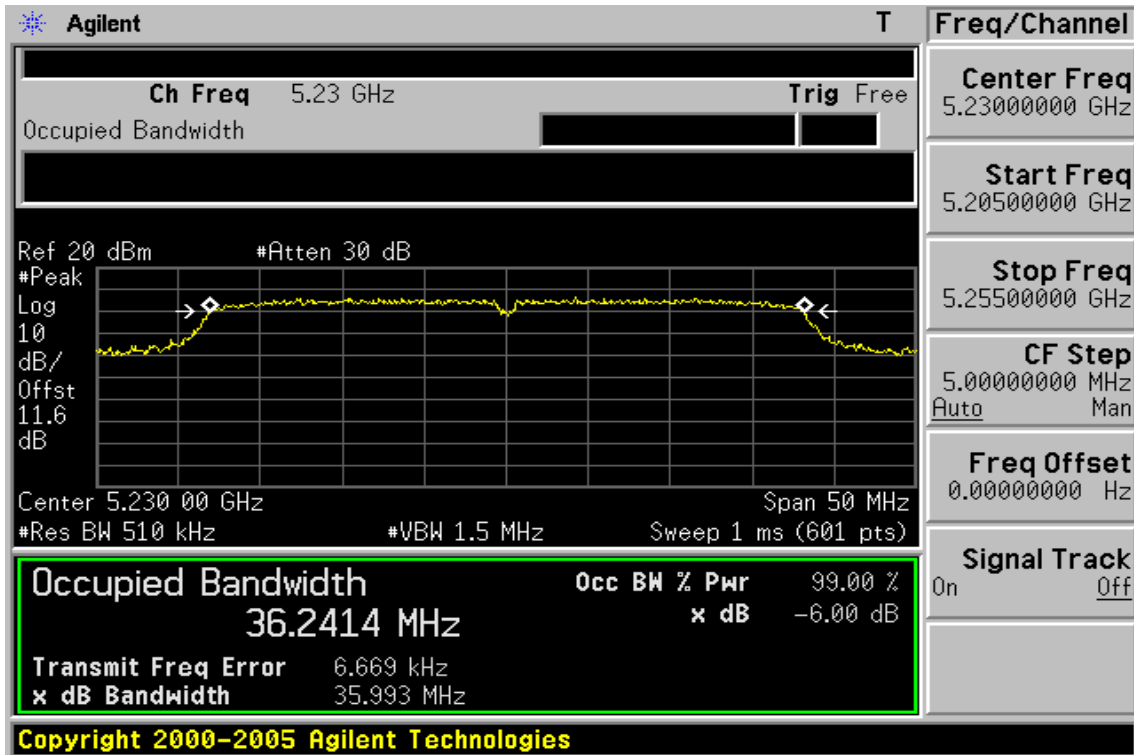
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**802.11n HT40, 5150~5250 MHz**  
**99% Band Width Test Data CH-Low (5190 MHz)**



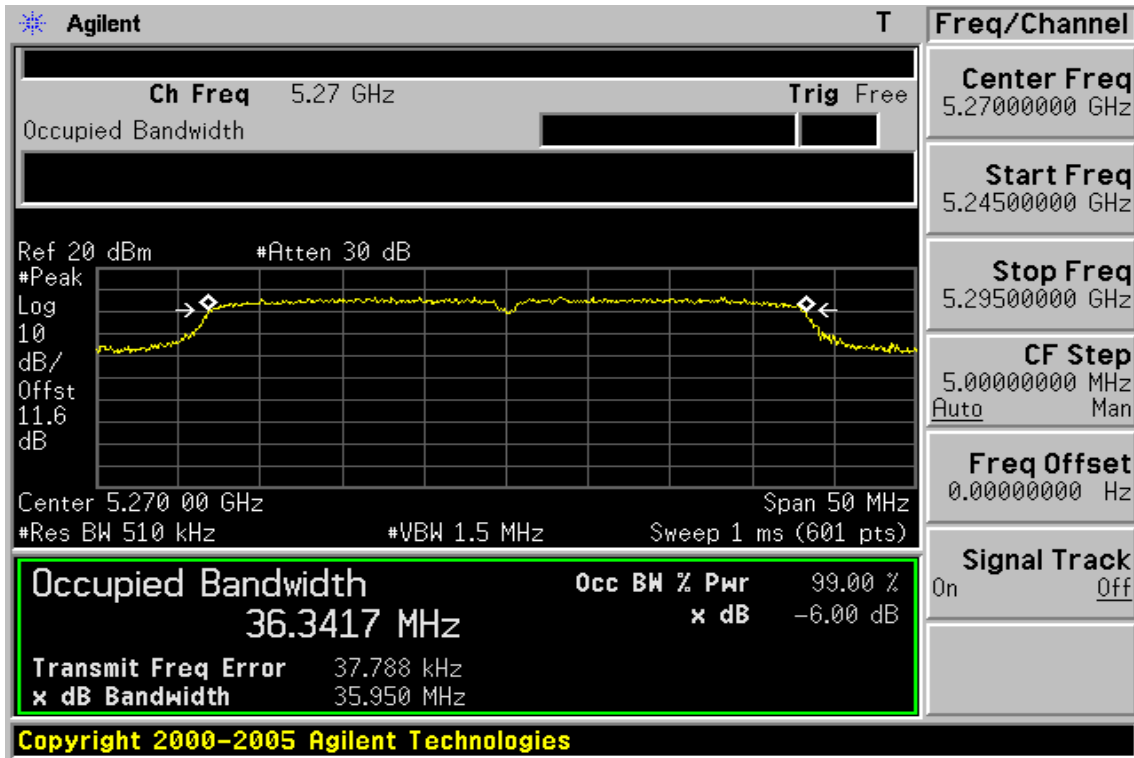
**99% Band Width Test Data CH-High (5230 MHz)**



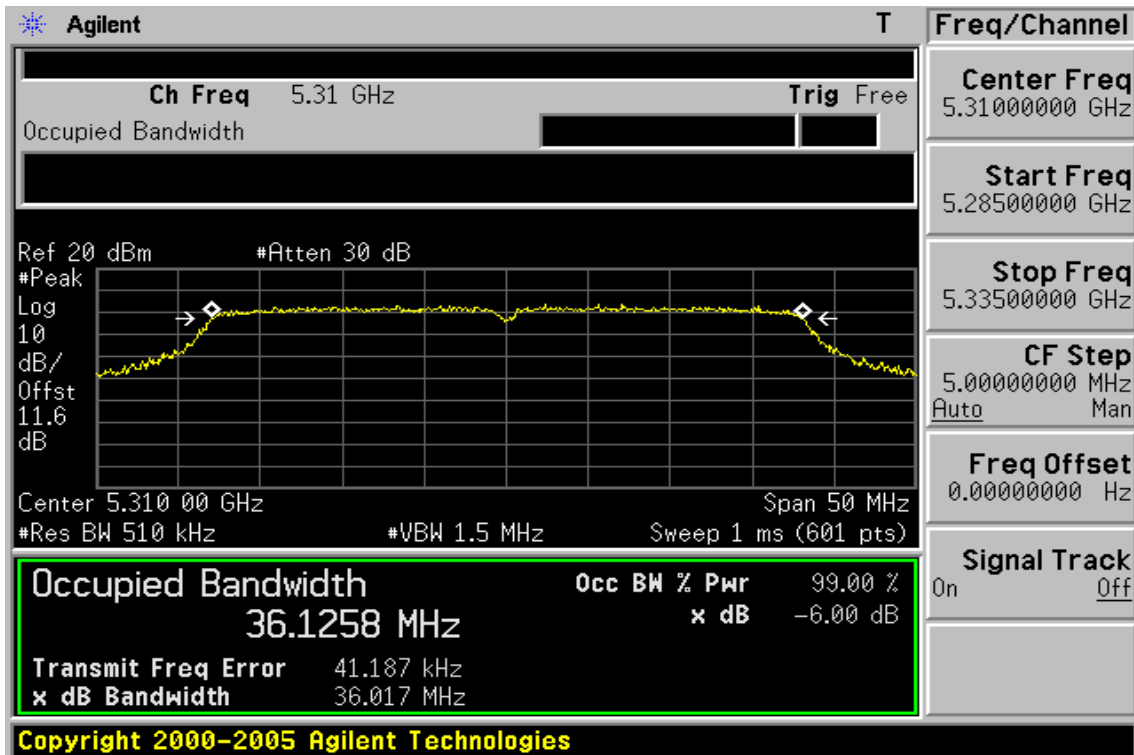
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**802.11n HT40, 5250~5350 MHz**  
**99% Band Width Test Data CH-Low (5270 MHz)**



**99% Band Width Test Data CH-High (5310MHz)**



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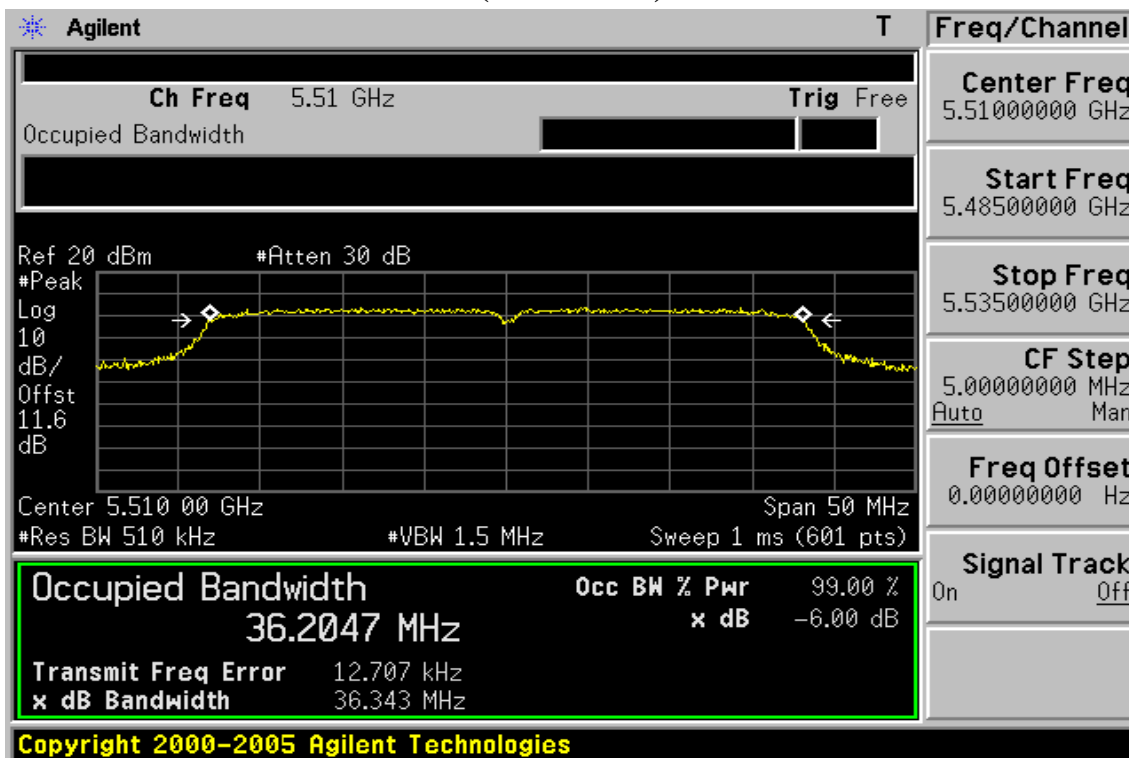
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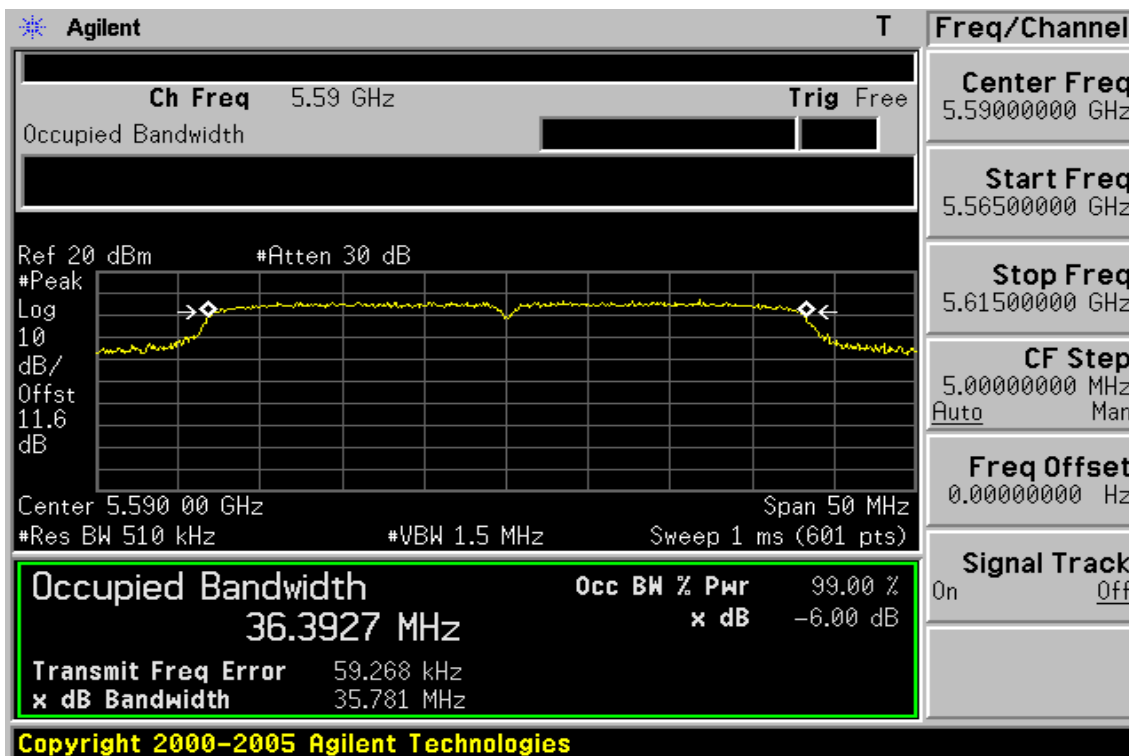
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**802.11n HT40, 5470~5725 MHz**  
**99% Band Width Test Data CH-Low (5510 MHz)**



**99% Band Width Test Data CH-Mid (5590 MHz)**

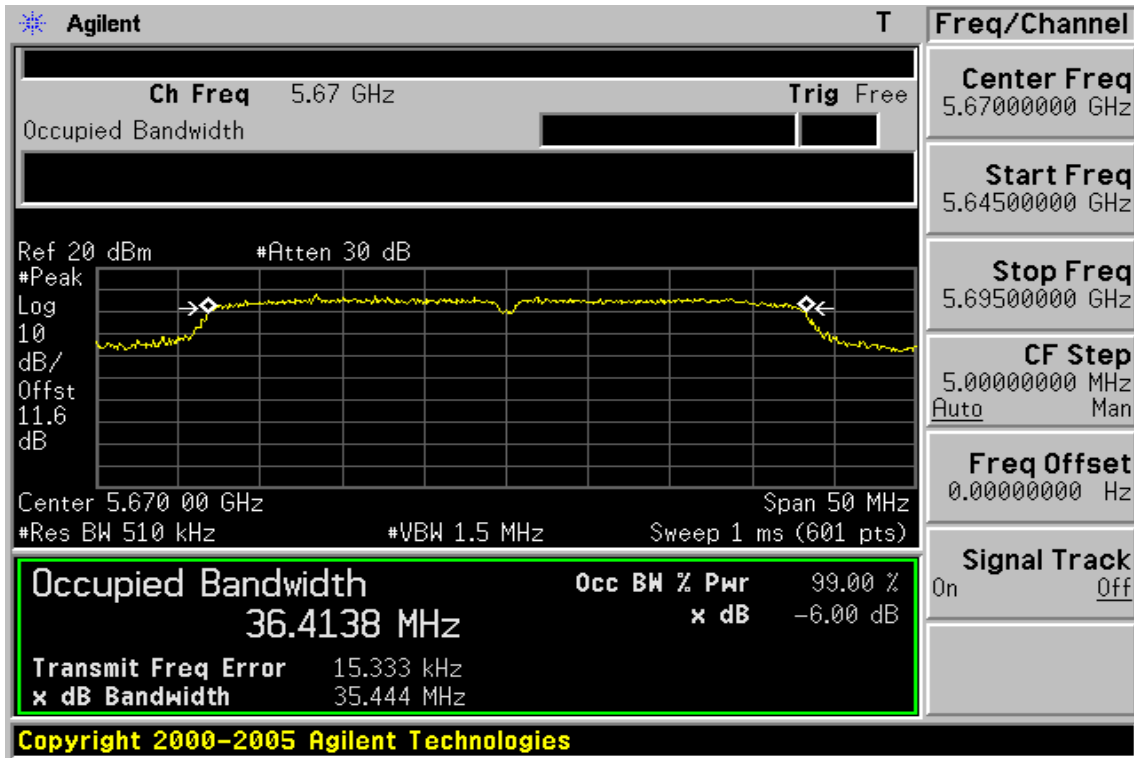


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### 99% Band Width Test Data CH-High (5670 MHz)



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## 8. PEAK OUTPUT POWER MEASUREMENT

### 8.1 Standard Applicable

According to §15.407(a)

1. For the band 5.15-5.25 GHz, the maximum conducted power over the frequency of operation shall not exceed the lesser of 50 mW (17dBm) or  $4 \text{ dBm} + 10 \log B$ .
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 (24dBm) or  $11 \text{ dBm} + 10 \log B$ .
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  $17 \text{ dBm} + 10 \log B$ .

According to RSS-210 A9.2

1. For the band 5150-5250 MHz, the maximum equivalent isotropically radiated power (e.i.r.p.) shall not exceed 200 mW or  $10 + 10 \log_{10} B$ , dBm, whichever power is less. B is the 99% emission bandwidth in MHz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.
2. For the bands 5250-5350 MHz and 5470-5725 MHz, the maximum conducted output power shall not exceed 250 mW or  $11 + 10 \log_{10} B$ , dBm, whichever power is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band. The maximum e.i.r.p. shall not exceed 1.0 W or  $17 + 10 \log_{10} B$ , dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

In addition, devices with maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

In addition to the above requirements, devices operating in the band 5250-5350 MHz with maximum e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. elevation mask where  $\theta$  is the angle above the local horizontal plane (of the earth) as shown below:

- (i)  $-13 \text{ dB(W/MHz)}$  for  $0^\circ \leq \theta < 8^\circ$
- (ii)  $-13 - 0.716 (\theta - 8) \text{ dB(W/MHz)}$  for  $8^\circ \leq \theta < 40^\circ$
- (iii)  $-35.9 - 1.22 (\theta - 40) \text{ dB(W/MHz)}$  for  $40^\circ \leq \theta \leq 45^\circ$
- (iv)  $-42 \text{ dB(W/MHz)}$  for  $\theta > 45^\circ$

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- For the band 5725-5825 MHz, the maximum conducted output power shall not exceed 1.0 W or  $17 + 10 \log_{10} B$ , dBm, whichever power is less. The power spectral density shall not exceed 17 dBm in any 1.0 MHz band. The maximum e.i.r.p. shall not exceed 4.0 W or  $23 + 10 \log_{10} B$ , dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

Fixed point-to-point systems for this band are permitted to have an e.i.r.p. greater than 4 W, provided that the higher e.i.r.p. is achieved by employing higher gain antennas, but not higher transmitter output powers. Point-to-multipoint systems, omni-directional applications and multiple co-located transmitters transmitting the same information are prohibited from exceeding 4 W e.i.r.p. However, remote stations of point-to-multipoint systems shall be permitted to operate at greater than 4 W e.i.r.p, under the same conditions as for point-to-point systems.

where B is the 26dB emission bandwidth in MHz.

## 8.2 Measurement Procedure

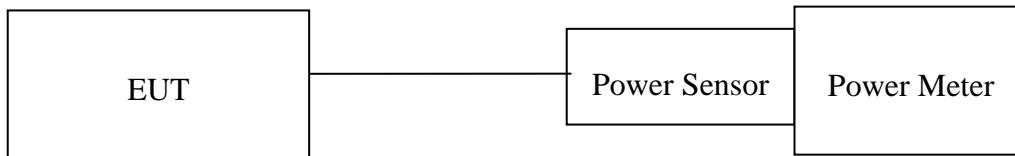
- Place the EUT on the table and set it in transmitting mode.
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
- Set the offset  $10 \cdot \log(1/x)$  ( $x=0.98$ ), 0.09 approximately
- Record the max. reading.
- Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

Note: For EIRP/ERP measurement complying with RSS-210 9.2, the formula as deduced in 1.3.2 of KDB 412172 D01 is used to calculate.  $ERP/EIRP = P_t + G_t - L_c$ , where  $P_t$ = transmitter output power measured directly at antenna port, expressing in dBm, and  $G_t$  = gain of the transmitting antenna in dBi that can be referred in antenna spec provided by the manufacturer in section 1.1,  $L_c$  = signal attenuation in the cable between the transmitting port and antenna.

## 8.3 Measurement Equipment Used:

Refer to section 7.3 for details.

#### 8.4 Test Set-up:



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### 8.5 Measurement Result

802.11a

Cable loss = 0		Average Power Output								Required Limit
CH	Frequency (MHz)	Data Rate								
		6	9	12	18	24	36	48	54	
36	5180	15.87	15.84	15.67	15.75	15.53	15.64	15.58	15.52	16.99dBm or 4+10log(B) = 20.01dBm
44	5220	<b>15.95</b>	15.87	15.71	15.70	15.78	15.69	15.56	15.61	16.99dBm or 4+10log(B) = 19.90dBm
48	5240	15.89	15.79	15.84	15.73	15.75	15.62	15.58	15.46	16.99dBm or 4+10log(B) = 19.76dBm
52	5260	<b>15.87</b>	15.84	15.78	15.73	15.66	15.45	15.55	15.42	23.98dBm or 11+10log(B) = 27.00dBm
60	5300	15.84	15.80	15.64	15.55	15.58	15.56	15.43	15.49	23.98dBm or 11+10log(B) = 26.93dBm
64	5320	15.78	15.68	15.53	15.57	15.58	15.43	15.54	15.41	23.98dBm or 11+10log(B) = 27.05dBm
100	5500	15.88	15.85	15.76	15.72	15.53	15.58	15.57	15.43	23.98dBm or 11+10log(B) = 26.97dBm
116	5580	<b>15.97</b>	15.89	15.76	15.78	15.67	15.75	15.63	15.51	23.98dBm or 11+10log(B) = 26.96dBm
140	5700	13.85	13.80	13.64	13.60	13.69	13.46	13.55	13.46	23.98dBm or 11+10log(B) = 27.02dBm

Note: Limit is re-adjusted in terms of dBm

$10 \cdot \log(50mW) = 16.99dBm$  for the limit on the band of 5150~5250MHz

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

Note: Cable loss is 11.6dB 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		Average Power Output								
CH	Frequency (MHz)	Data Rate								Required Limit
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
36	5180	15.64	15.61	15.45	15.49	15.49	15.29	15.28	15.23	16.99dBm or 4+10log(B) = 20.06dBm
44	5220	<b>15.97</b>	15.91	15.83	15.65	15.81	15.77	15.61	15.66	16.99dBm or 4+10log(B) = 19.93dBm
48	5240	15.92	15.85	15.74	15.66	15.71	15.64	15.52	15.47	16.99dBm or 4+10log(B) = 19.96dBm
52	5260	<b>15.92</b>	15.91	15.86	15.84	15.59	15.59	15.51	15.43	23.98dBm or 11+10log(B) = 26.97dBm
60	5300	15.86	15.77	15.65	15.63	15.55	15.55	15.62	15.53	23.98dBm or 11+10log(B) = 26.92dBm
64	5320	15.87	15.82	15.75	15.65	15.63	15.49	15.50	15.44	23.98dBm or 11+10log(B) = 27.06dBm
100	5500	15.90	15.81	15.81	15.72	15.66	15.67	15.67	15.42	23.98dBm or 11+10log(B) = 27.00dBm
116	5580	<b>15.98</b>	15.98	15.72	15.81	15.83	15.64	15.68	15.49	23.98dBm or 11+10log(B) = 26.97dBm
140	5700	13.13	13.06	12.99	12.89	12.92	12.79	12.83	12.74	23.98dBm or 11+10log(B) = 26.92dBm

Note: Offset 11.6dB

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802.11n HT40

Cable loss = 0		Average Power Output								
CH	Frequency (MHz)	Data Rate								Required Limit
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
38	5190	11.73	11.72	11.49	11.54	11.51	11.45	11.37	11.43	16.99dBm or 4+10log(B) = 23.16dBm
46	5230	<b>15.77</b>	15.68	15.71	15.50	15.61	15.46	15.54	15.43	16.99dBm or 4+10log(B) = 23.26dBm
54	5270	<b>15.78</b>	15.70	15.56	15.55	15.39	15.51	15.44	15.41	23.98dBm or 11+10log(B) = 30.16dBm
62	5310	12.09	12.00	11.89	11.94	11.78	11.79	11.68	11.64	23.98dBm or 11+10log(B) = 30.16dBm
102	5510	11.73	11.71	11.51	11.58	11.56	11.54	11.40	11.25	23.98dBm or 11+10log(B) = 30.10dBm
118	5590	15.76	15.67	15.60	15.47	15.45	15.42	15.45	15.42	23.98dBm or 11+10log(B) = 30.17dBm
134	5670	<b>15.93</b>	15.84	15.64	15.76	15.77	15.55	15.53	15.66	23.98dBm or 11+10log(B) = 30.15dBm

Note: Offset 11.6dB

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ERP/EIRP Measurement:

802.11a

Cable loss = 0		Average Power Output								Required Limit
CH	Frequency (MHz)	Data Rate								
		6	9	12	18	24	36	48	54	
36	5180	16.13	16.1	15.93	16.01	15.79	15.9	15.84	15.78	23.01dBm or $10+10\log(B) = 22.39\text{dBm}$
44	5220	<b>16.21</b>	<b>16.13</b>	<b>15.97</b>	<b>15.96</b>	<b>16.04</b>	<b>15.95</b>	<b>15.82</b>	<b>15.87</b>	23.01dBm or $10+10\log(B) = 22.47\text{dBm}$
48	5240	16.15	16.05	16.1	15.99	16.01	15.88	15.84	15.72	23.01dBm or $10+10\log(B) = 23.40\text{dBm}$
52	5260	<b>16.9</b>	<b>16.87</b>	<b>16.81</b>	<b>16.76</b>	<b>16.69</b>	<b>16.48</b>	<b>16.58</b>	<b>16.45</b>	30.00dBm or $17+10\log(B) = 29.39\text{dBm}$
60	5300	16.87	16.83	16.67	16.58	16.61	16.59	16.46	16.52	30.00dBm or $17+10\log(B) = 29.44\text{dBm}$
64	5320	16.81	15.68	15.53	15.57	15.58	15.43	15.54	15.41	30.00dBm or $17+10\log(B) = 29.41\text{dBm}$
100	5500	19.28	19.25	19.16	19.12	18.93	18.98	18.97	18.83	30.00dBm or $17+10\log(B) = 29.43\text{dBm}$
116	5580	<b>19.37</b>	<b>19.29</b>	<b>19.16</b>	<b>19.18</b>	<b>19.07</b>	<b>19.15</b>	<b>19.03</b>	<b>18.91</b>	30.00dBm or $17+10\log(B) = 29.52\text{dBm}$
140	5700	17.25	17.2	17.04	17.00	17.09	16.86	16.95	16.86	30.00dBm or $17+10\log(B) = 29.36\text{dBm}$

Note: Limit is re-adjusted in terms of dBm

$10*\log(200\text{mW}) = 23.01\text{dBm}$  for the limit on the band of 5150~5250MHz

$10*\log(1000\text{mW})=30.00\text{dBm}$  for the limit on the band of 5260~5320MHz, & 5470~5725MHz.

$EIRP = \text{Conducted Power} + \text{antenna Gain of respective frequency band}$

Note: Cable loss is 11.6dB 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		Average Power Output								
CH	Frequency (MHz)	Data Rate								Required Limit
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
36	5180	15.9	16.64	16.48	16.52	16.52	16.32	16.31	16.26	23.01dBm or $10+10\log(B) = 22.59\text{dBm}$
44	5220	<b>16.23</b>	16.94	16.86	16.68	16.84	16.8	16.64	16.69	23.01dBm or $10+10\log(B) = 22.67\text{dBm}$
48	5240	16.18	16.88	16.77	16.69	16.74	16.67	16.55	16.5	23.01dBm or $10+10\log(B) = 22.60\text{dBm}$
52	5260	16.95	16.94	16.89	16.87	16.62	16.62	16.54	16.46	30.00dBm or $17+10\log(B) = 29.61\text{dBm}$
60	5300	16.89	16.8	16.68	16.66	16.58	16.58	16.65	16.56	30.00dBm or $17+10\log(B) = 29.66\text{dBm}$
64	5320	<b>16.9</b>	16.85	16.78	16.68	16.66	16.52	16.53	16.47	30.00dBm or $17+10\log(B) = 29.64\text{dBm}$
100	5500	<b>19.38</b>	19.21	19.21	19.12	19.06	19.07	19.07	18.82	30.00dBm or $17+10\log(B) = 29.64\text{dBm}$
116	5580	16.53	19.38	19.12	19.21	19.23	19.04	19.08	18.89	30.00dBm or $17+10\log(B) = 29.67\text{dBm}$
140	5700	16.53	16.46	16.39	16.29	16.32	16.19	16.23	16.14	30.00dBm or $17+10\log(B) = 29.56\text{dBm}$

Note: Offset 11.6dB

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802.11n HT40

Cable loss = 0		Average Power Output								
CH	Frequency (MHz)	Data Rate								Required Limit
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
38	5190	11.99	11.98	11.75	11.8	11.77	11.71	11.63	11.69	23.01dBm or $10+10\log(B) = 25.58\text{dBm}$
46	5230	16.03	15.94	15.97	15.76	15.87	15.72	15.8	15.69	23.01dBm or $10+10\log(B) = 25.59\text{dBm}$
54	5270	<b>16.81</b>	16.81	1.03	16.73	16.59	16.58	16.42	16.54	30.00dBm or $17+10\log(B) = 32.60\text{dBm}$
62	5310	<b>13.12</b>	13.03	12.92	12.97	12.81	12.82	12.71	12.67	30.00dBm or $17+10\log(B) = 32.58\text{dBm}$
102	5510	15.13	15.11	14.91	14.98	14.96	14.94	14.8	14.65	30.00dBm or $17+10\log(B) = 32.59\text{dBm}$
118	5590	19.16	19.07	19.00	18.87	18.85	18.82	18.85	18.82	30.00dBm or $17+10\log(B) = 32.61\text{dBm}$
134	5670	<b>19.33</b>	19.24	19.04	19.16	19.17	18.95	18.93	19.06	30.00dBm or $17+10\log(B) = 32.61\text{dBm}$

Note: Offset 11.6dB

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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 4 dBm in any 1-MHz band.
2. For the band 5.25-5.35 GHz and 5.47-5.725GHz, the peak power spectral density shall not exceed 11 dBm in any 1-MHz band.
3. For the band 5.725-5.825 GHz, the peak power spectral density shall not exceed 17 dBm in any 1-MHz 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.

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According to RSS-210 A9.2

1. For the band 5150-5250 MHz, the maximum equivalent isotropically radiated power (e.i.r.p.) shall not exceed 200 mW or  $10 + 10 \log_{10} B$ , dBm, whichever power is less. B is the 99% emission bandwidth in MHz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.
2. For the bands 5250-5350 MHz and 5470-5725 MHz, the maximum conducted output power shall not exceed 250 mW or  $11 + 10 \log_{10} B$ , dBm, whichever power is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band. The maximum e.i.r.p. shall not exceed 1.0 W or  $17 + 10 \log_{10} B$ , dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

In addition, devices with maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

In addition to the above requirements, devices operating in the band 5250-5350 MHz with maximum e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. elevation mask where  $\theta$  is the angle above the local horizontal plane (of the earth) as shown below:

- (i) -13 dB(W/MHz) for  $0^\circ \leq \theta < 8^\circ$
- (ii)  $-13 - 0.716(\theta - 8)$  dB(W/MHz) for  $8^\circ \leq \theta < 40^\circ$
- (iii)  $-35.9 - 1.22(\theta - 40)$  dB(W/MHz) for  $40^\circ \leq \theta \leq 45^\circ$
- (iv) -42 dB(W/MHz) for  $\theta > 45^\circ$

3. For the band 5725-5825 MHz, the maximum conducted output power shall not exceed 1.0 W or  $17 + 10 \log_{10} B$ , dBm, whichever power is less. The power spectral density shall not exceed 17 dBm in any 1.0 MHz band. The maximum e.i.r.p. shall not exceed 4.0 W or  $23 + 10 \log_{10} B$ , dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

Fixed point-to-point systems for this band are permitted to have an e.i.r.p. greater than 4 W, provided that the higher e.i.r.p. is achieved by employing higher gain antennas, but not higher transmitter output powers. Point-to-multipoint systems, omni-directional applications and multiple co-located transmitters transmitting the same information are prohibited from exceeding 4 W e.i.r.p. However, remote stations of point-to-multipoint systems shall be permitted to operate at greater than 4 W e.i.r.p, under the same conditions as for point-to-point systems.

B is the 99% emission bandwidth in MHz.

## 9.2 Measurement Procedure (following procedure F, & E) d) method SA-2 in KDB789033 D01)

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 = 0.014501, 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	2.85	4.00	-1.15
5220	2.99	4.00	-1.01
5240	2.94	4.00	-1.06

802.11a, 5250~5350 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5260	2.49	11.00	-8.51
5300	3.31	11.00	-7.69
5320	2.37	11.00	-8.63

802.11a, 5470~5725 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5500	2.46	11.00	-8.54
5580	2.70	11.00	-8.30
5700	3.06	11.00	-7.94

Note: Offset 11.6dB

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802.11n HT20, 5150~5250 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	2.13	4.00	-1.87
5220	2.57	4.00	-1.43
5240	2.21	4.00	-1.79

802.11n HT20, 5250~5350 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5260	2.51	11.00	-8.49
5300	2.49	11.00	-8.51
5320	2.30	11.00	-8.70

802.11n HT20, 5470~5725 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5500	2.29	11.00	-8.71
5580	2.78	11.00	-8.22
5700	2.41	11.00	-8.59

Note: Offset 11.6dB

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802.11n HT40, 5150~5250 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5190	-4.78	4.00	-8.78
5230	-0.45	4.00	-4.45

802.11n HT40, 5250~5350 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5270	0.20	11.00	-10.80
5310	-3.70	11.00	-14.70

802.11n HT40, 5470~5725 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5510	-1.72	11.00	-12.72
5590	-0.73	11.00	-11.73
5670	-0.09	11.00	-11.09

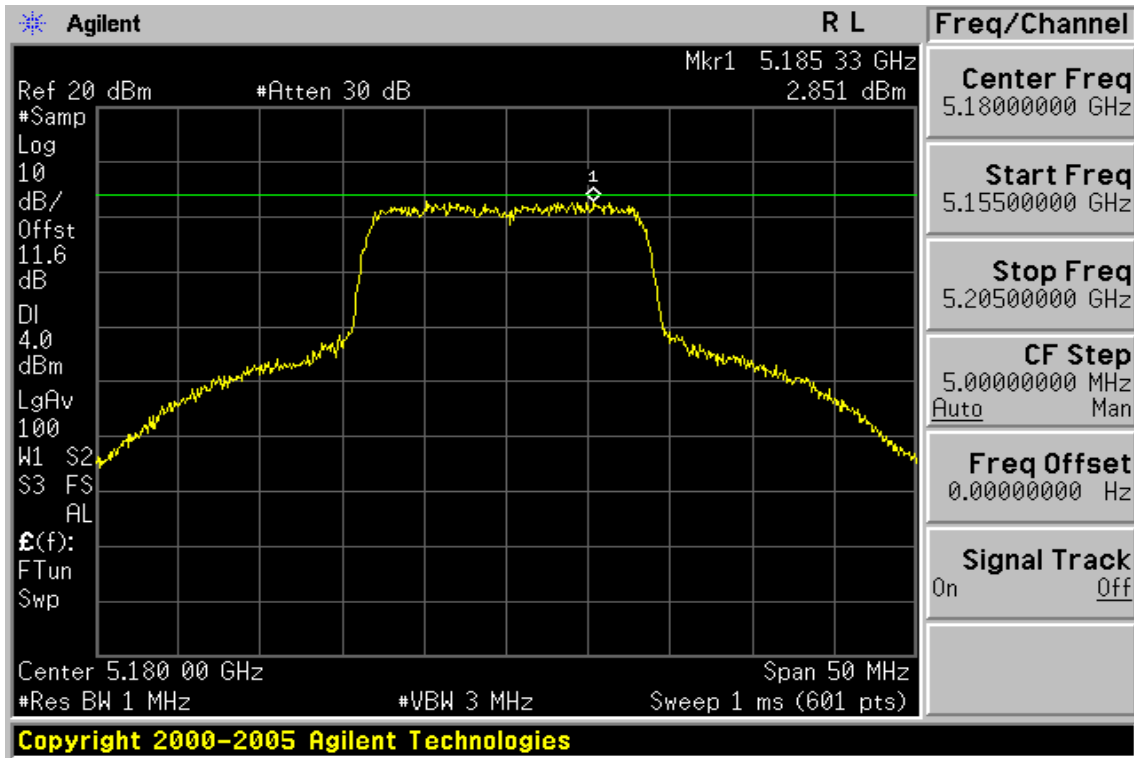
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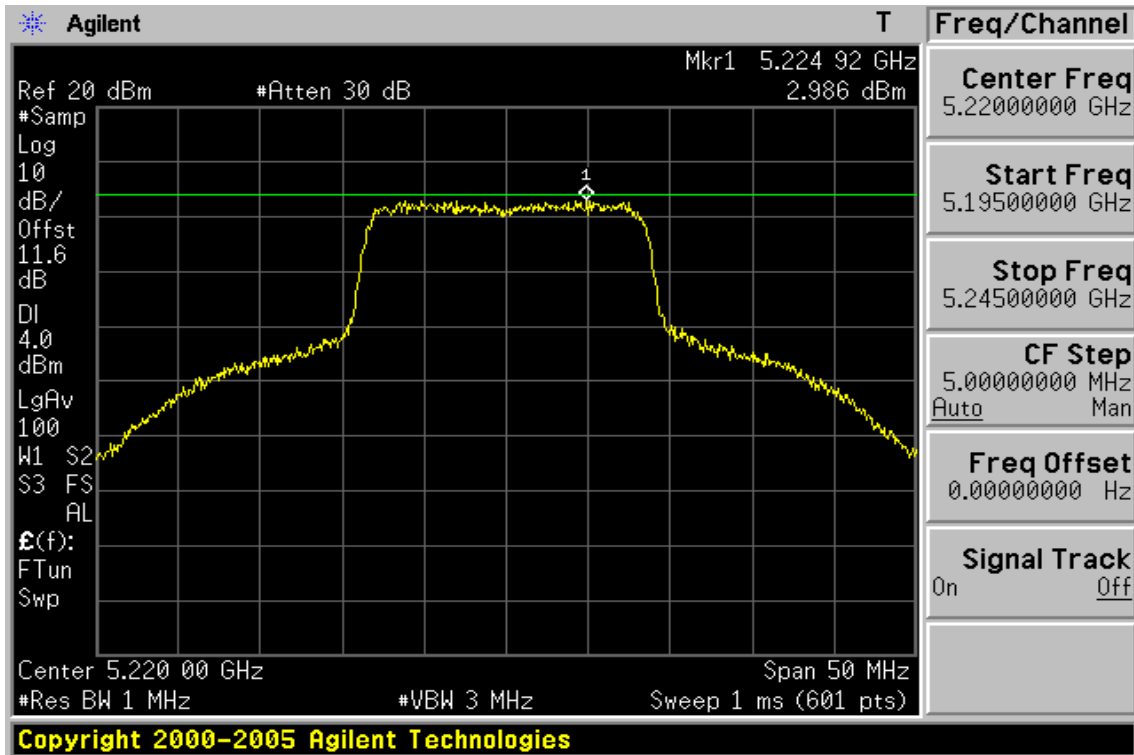
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### 802.11a, 5150~5250 MHz

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



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



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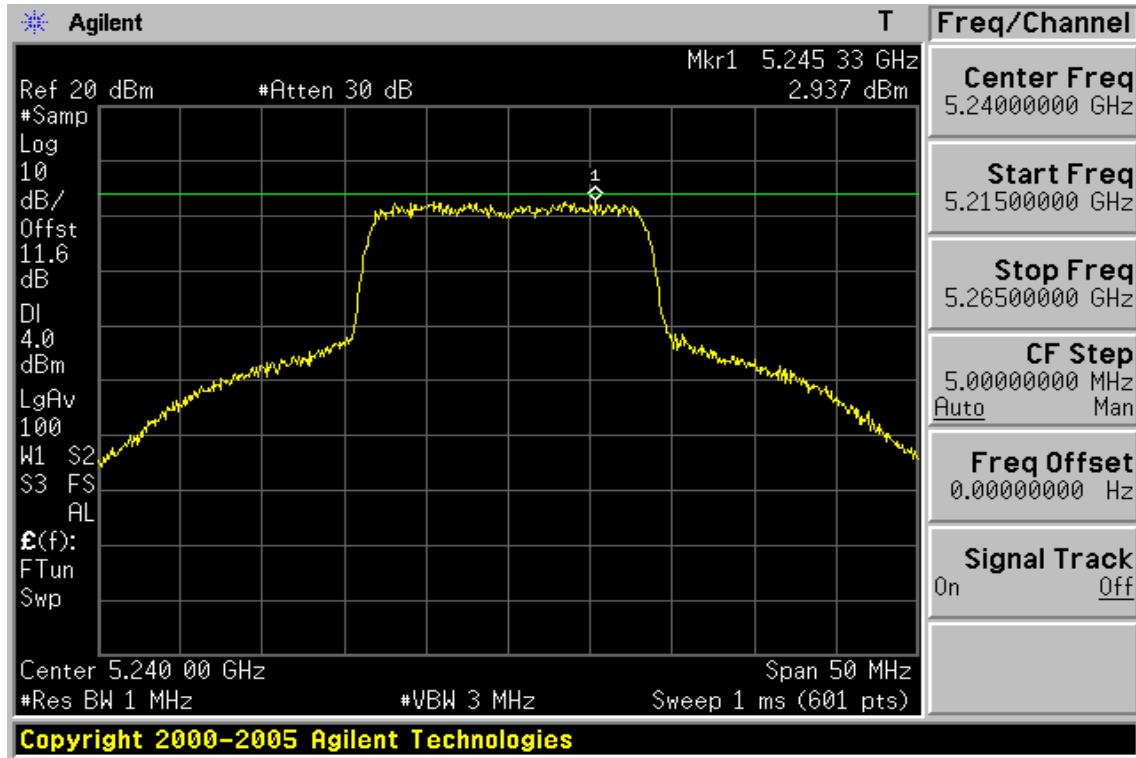
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### Peak Power Spectral Density Data Plot (CH High 5240 MHz)

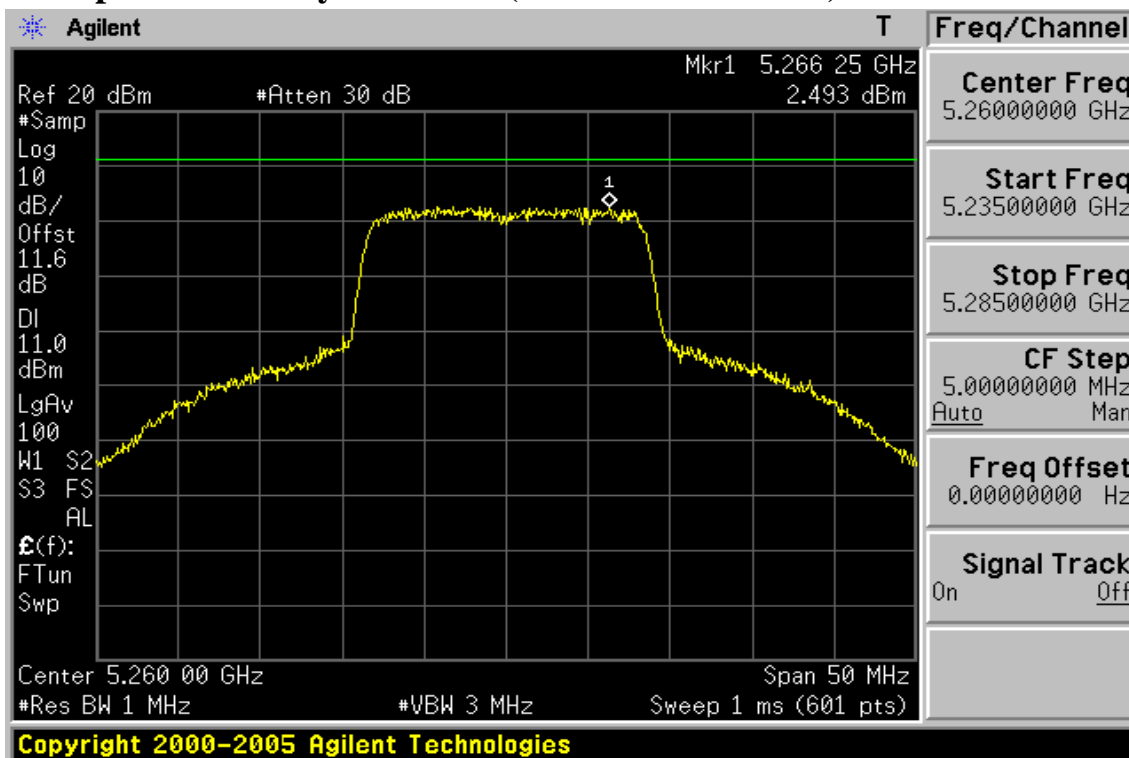


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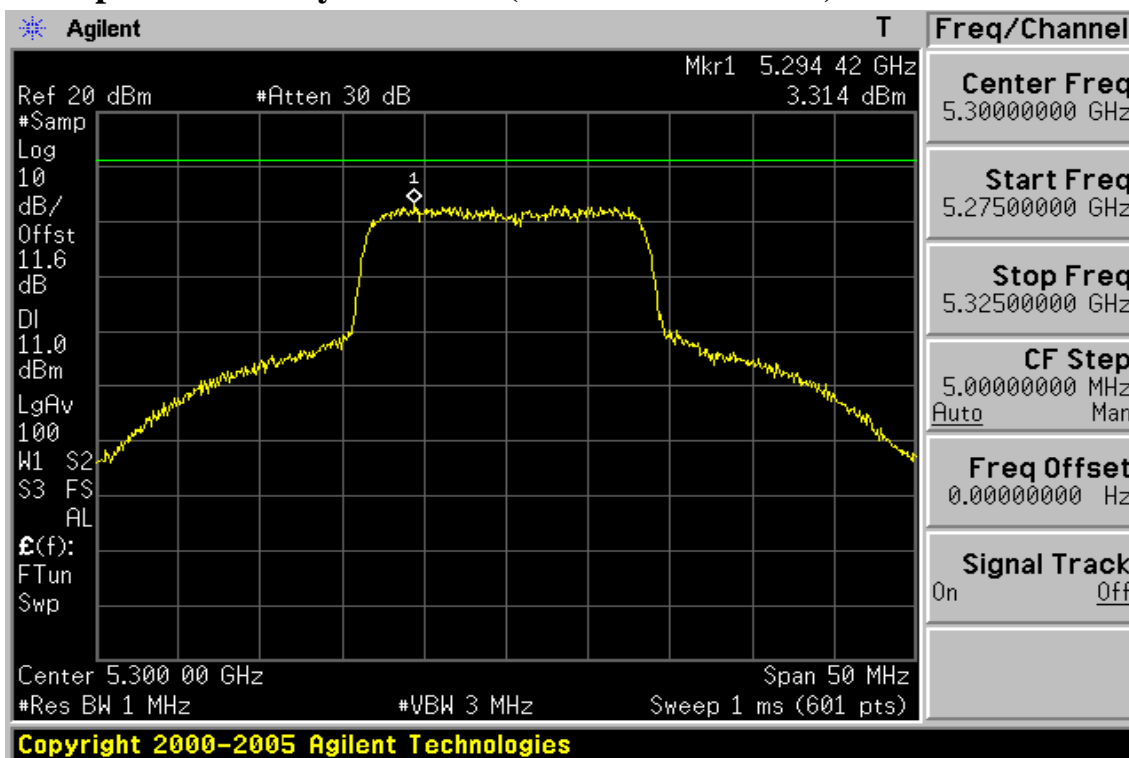
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### 802.11a, 5250~5350 MHz

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



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



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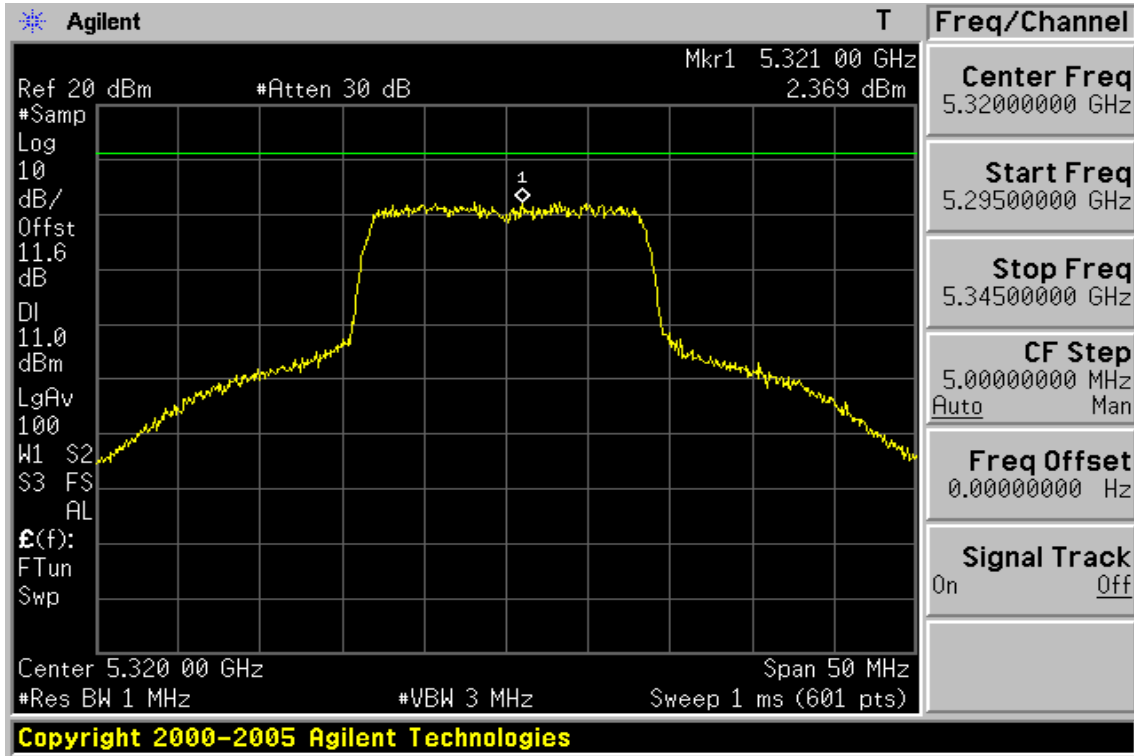
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Peak Power Spectral Density Data Plot (CH High 5320 MHz)

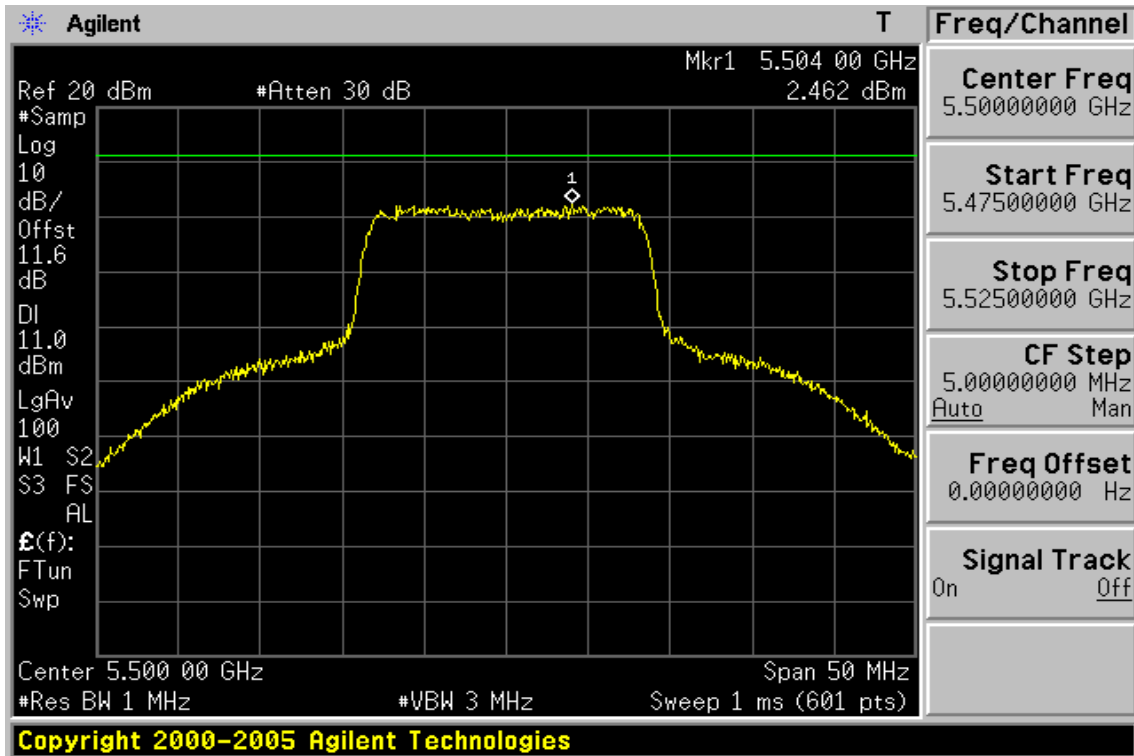


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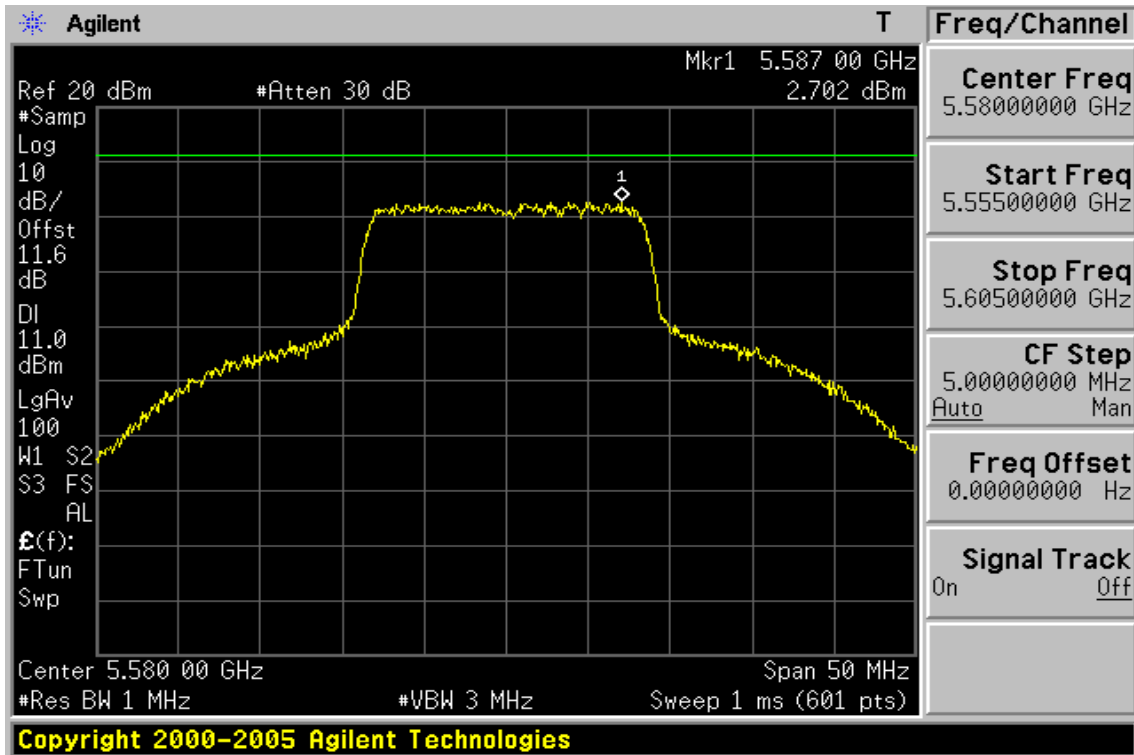
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802.11a, 5470~5725 MHz

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



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



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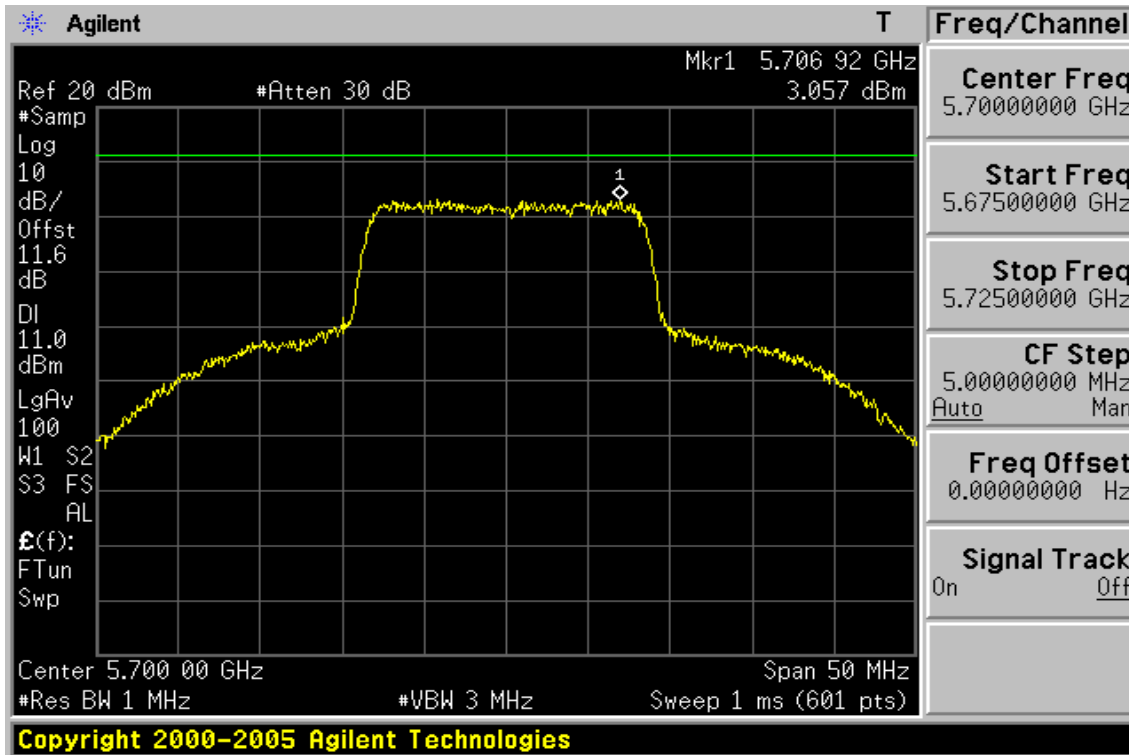
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Peak Power Spectral Density Data Plot (CH High 5700 MHz)

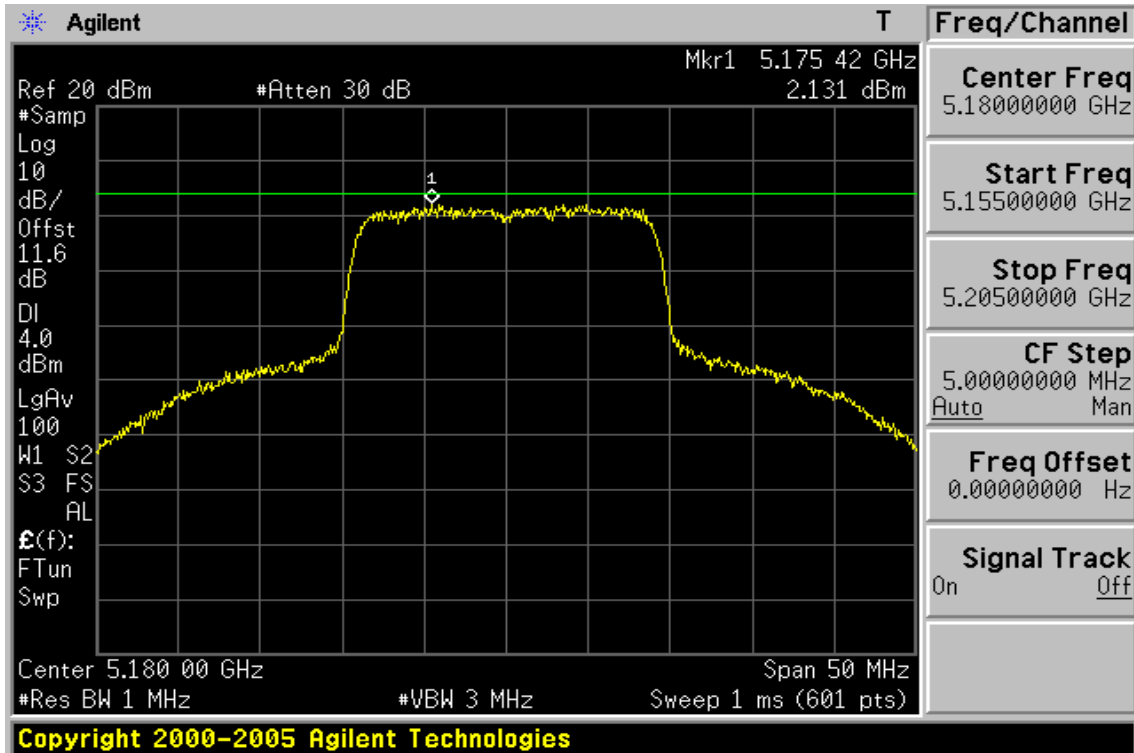


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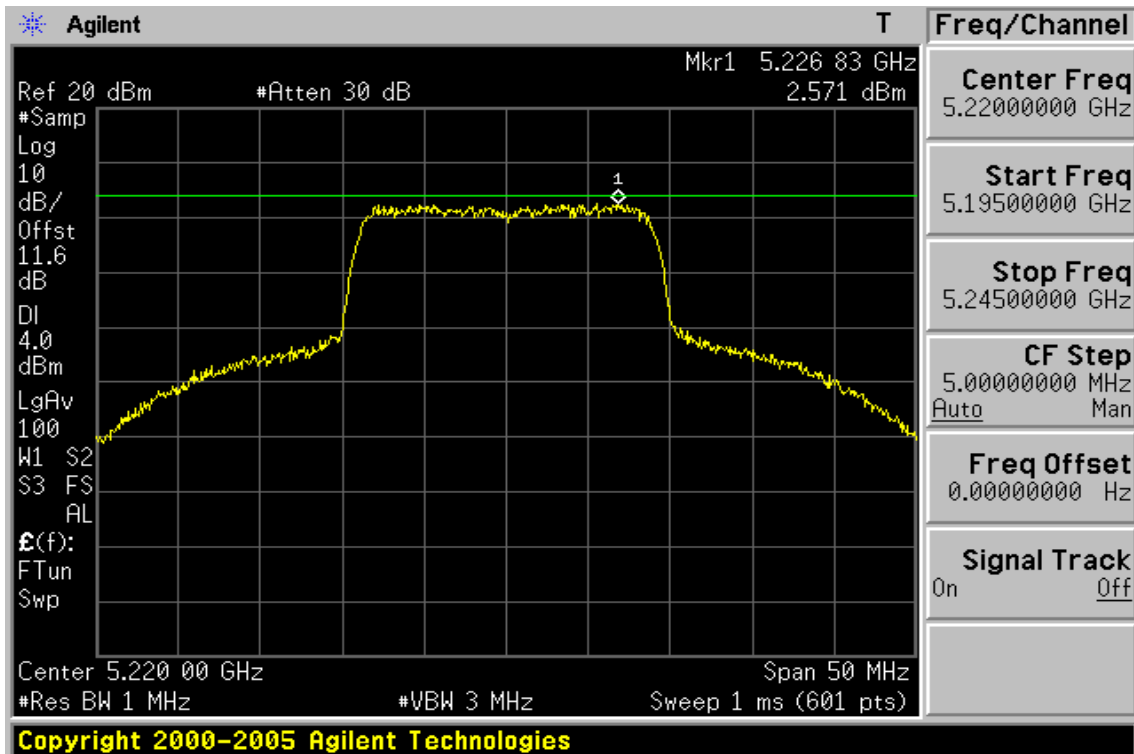
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### 802.11n HT20, 5150~5250 MHz

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



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



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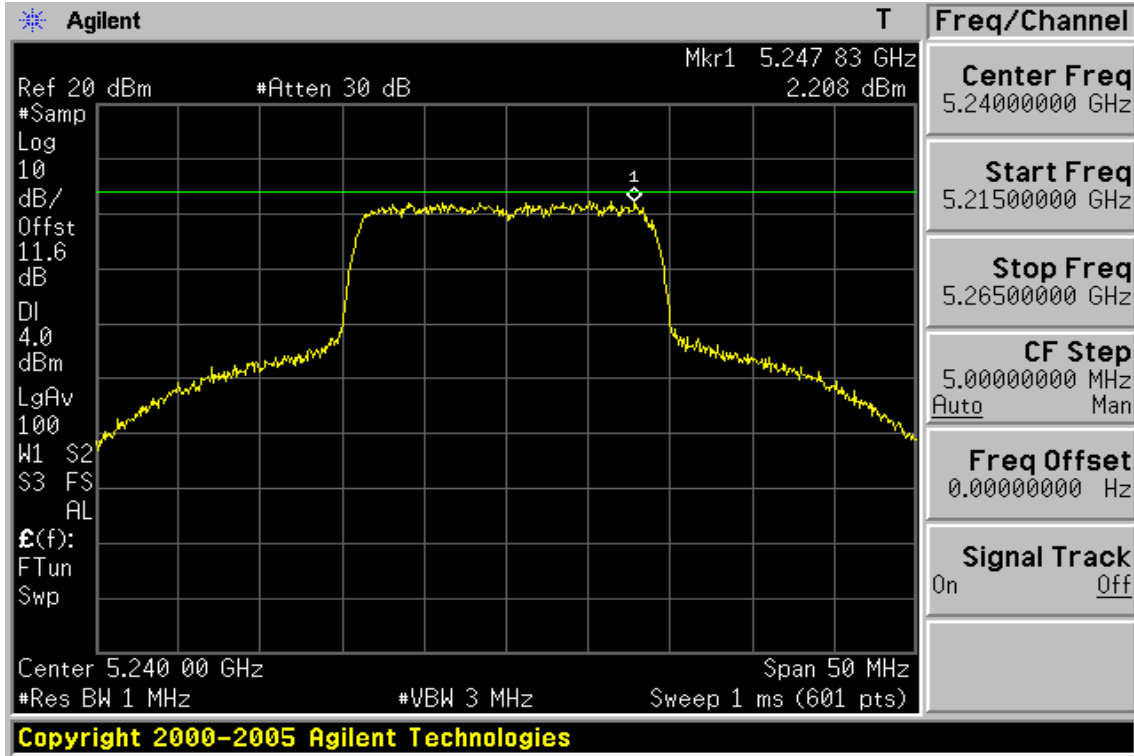
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### Peak Power Spectral Density Data Plot (CH High 5240 MHz)

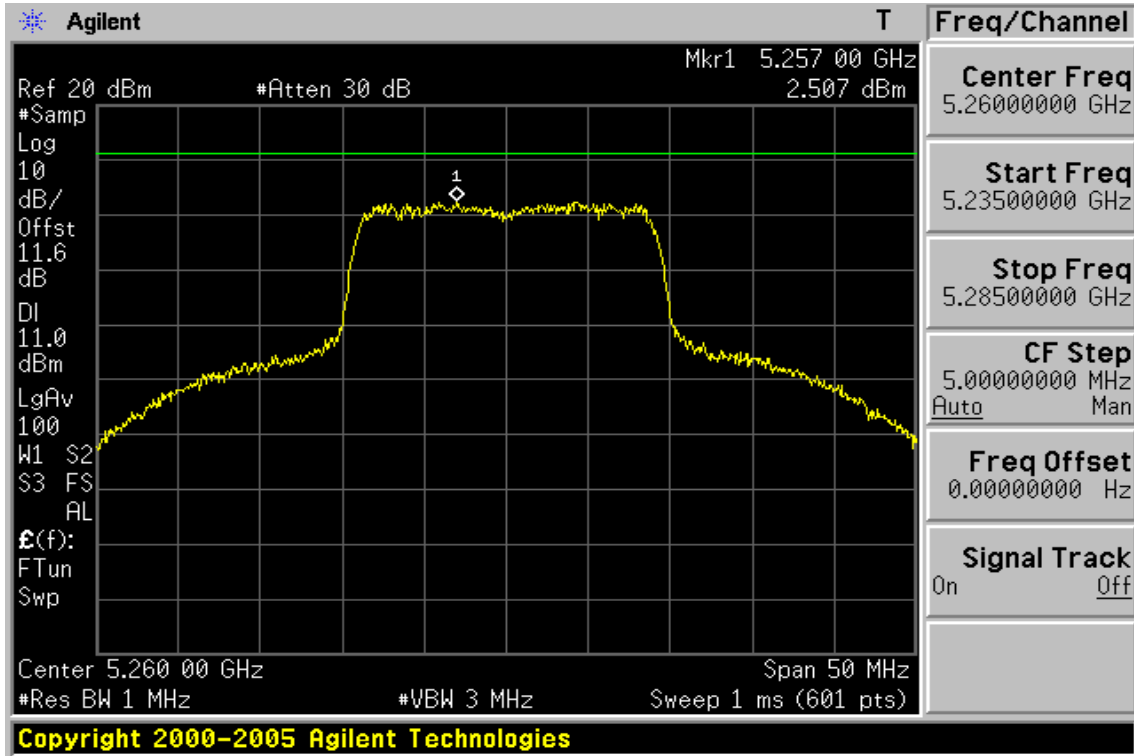


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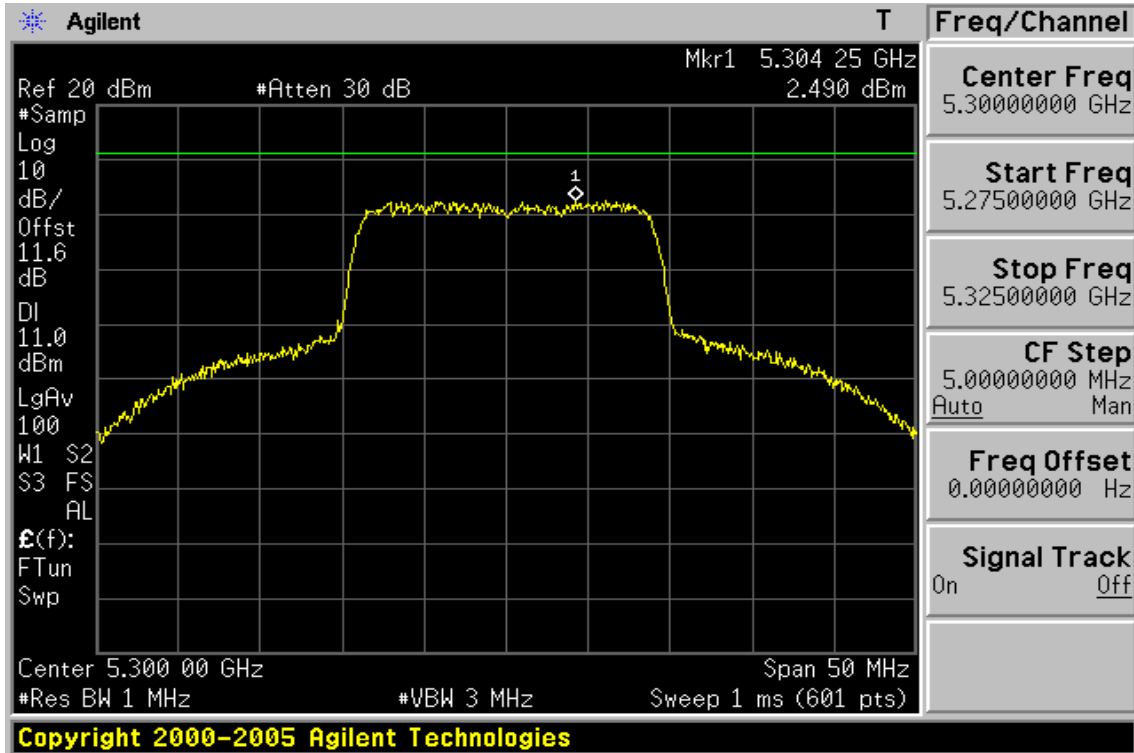
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### 802.11n HT20, 5250~5350 MHz

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



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



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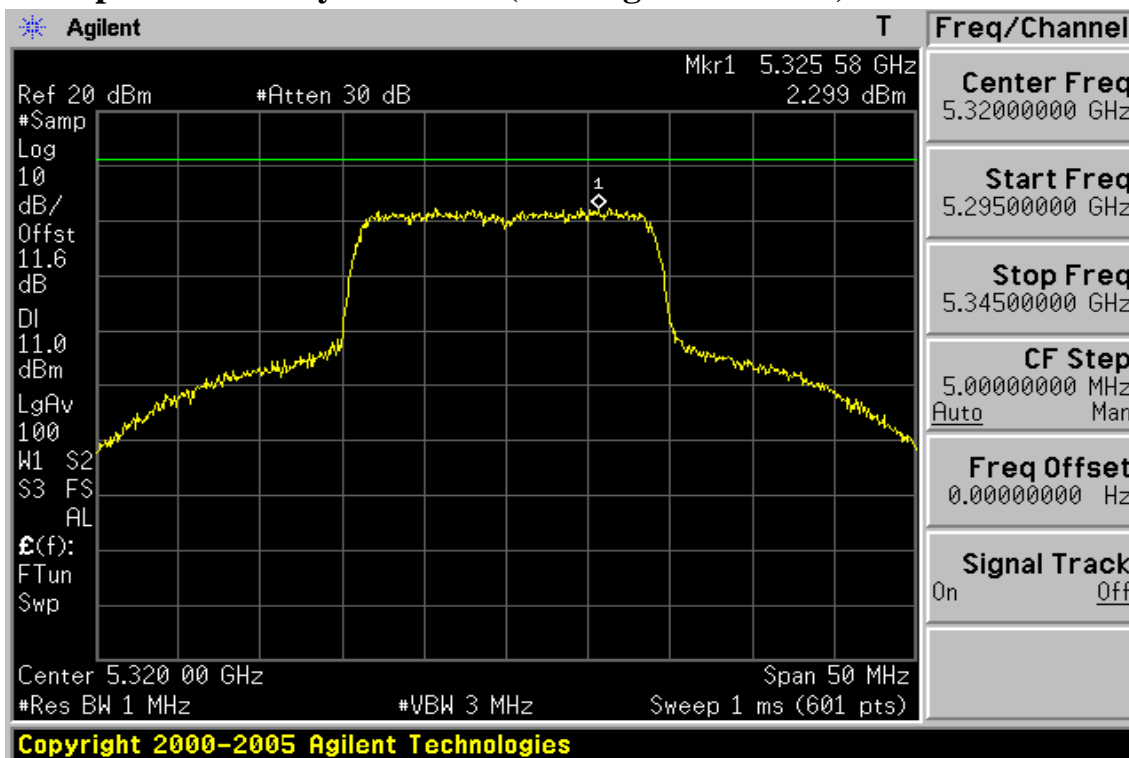
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### Peak Power Spectral Density Data Plot (CH High 5320 MHz)

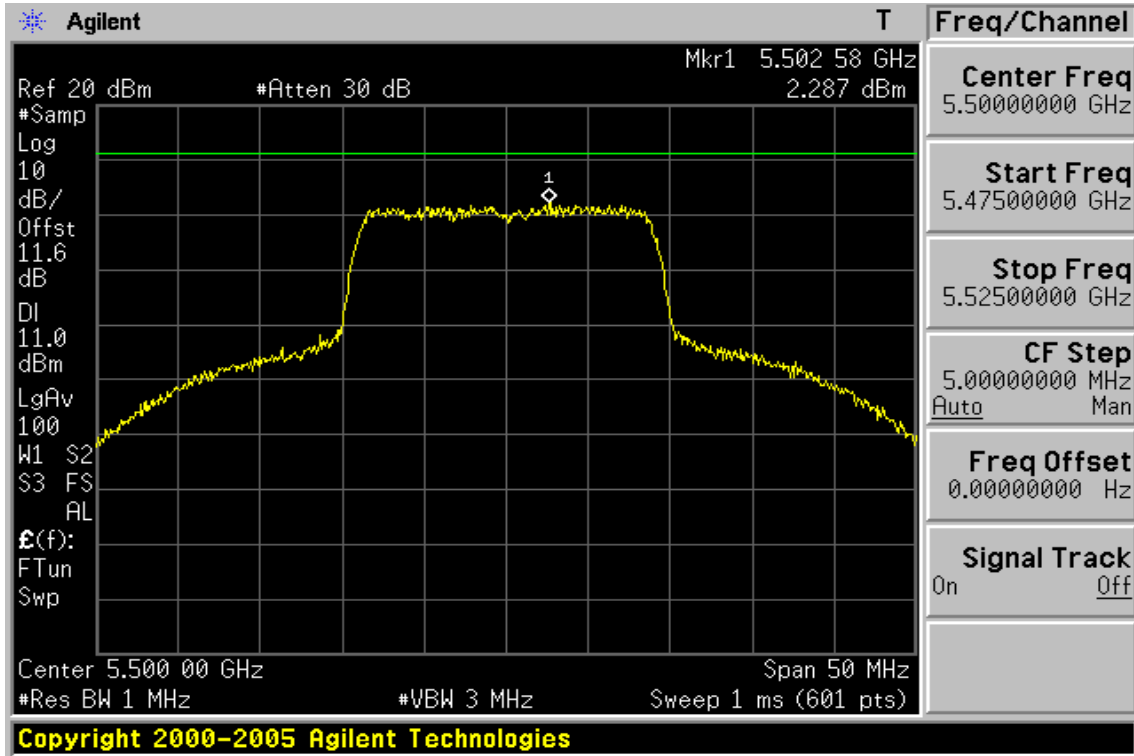


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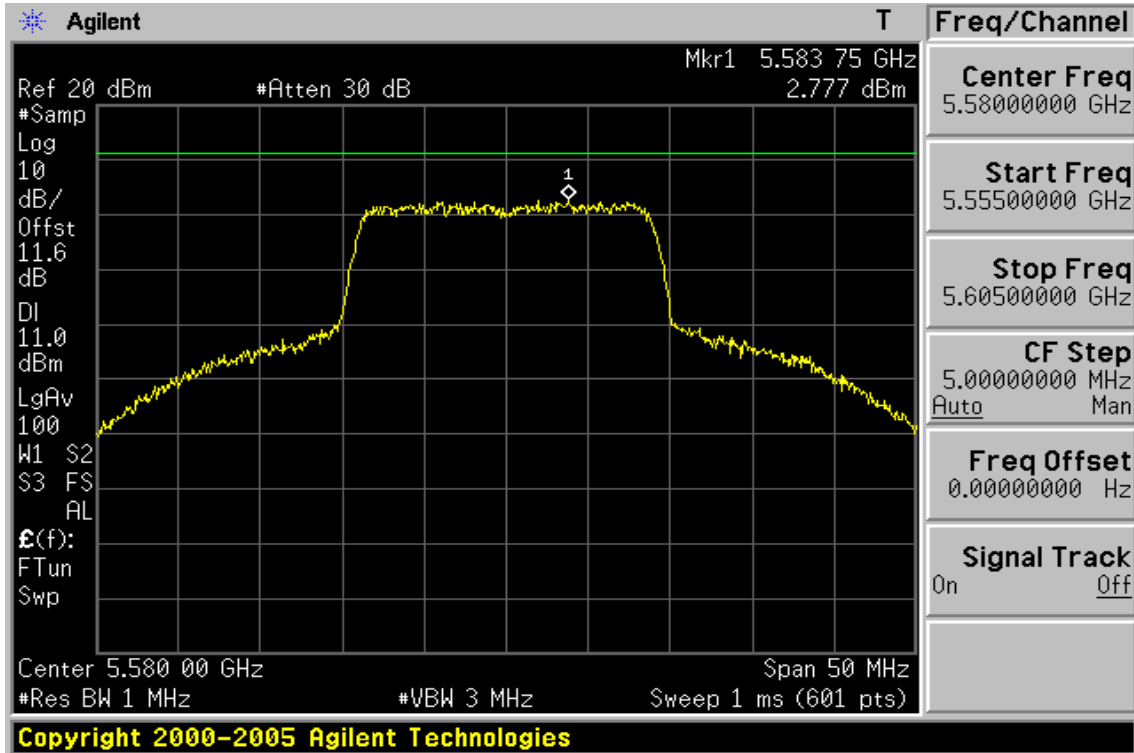
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### 802.11n HT20, 5470~5725 MHz

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



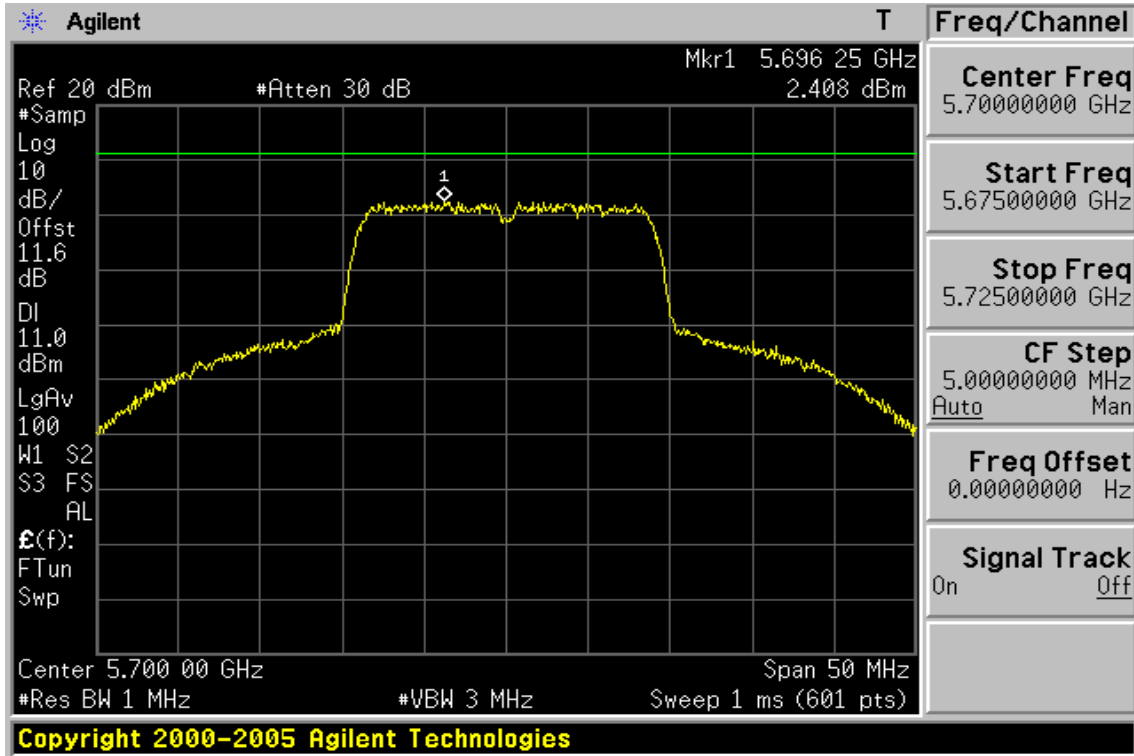
#### Peak Power Spectral Density Data Plot (CH Mid 5580MHz)



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

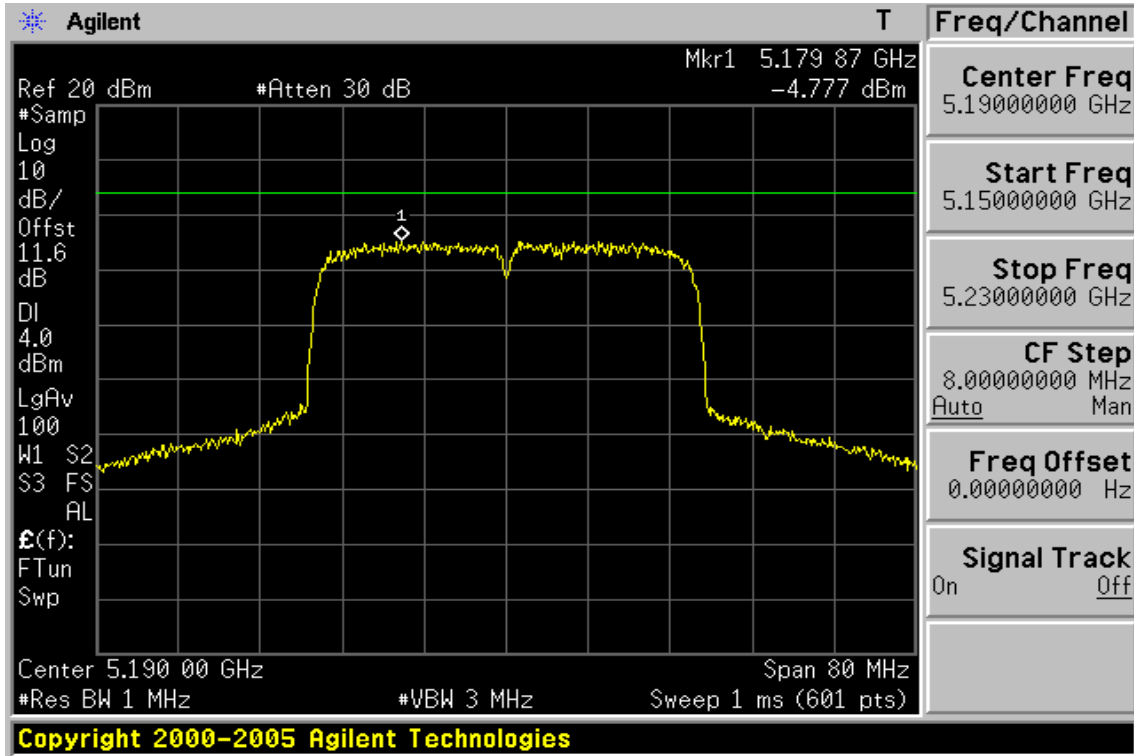


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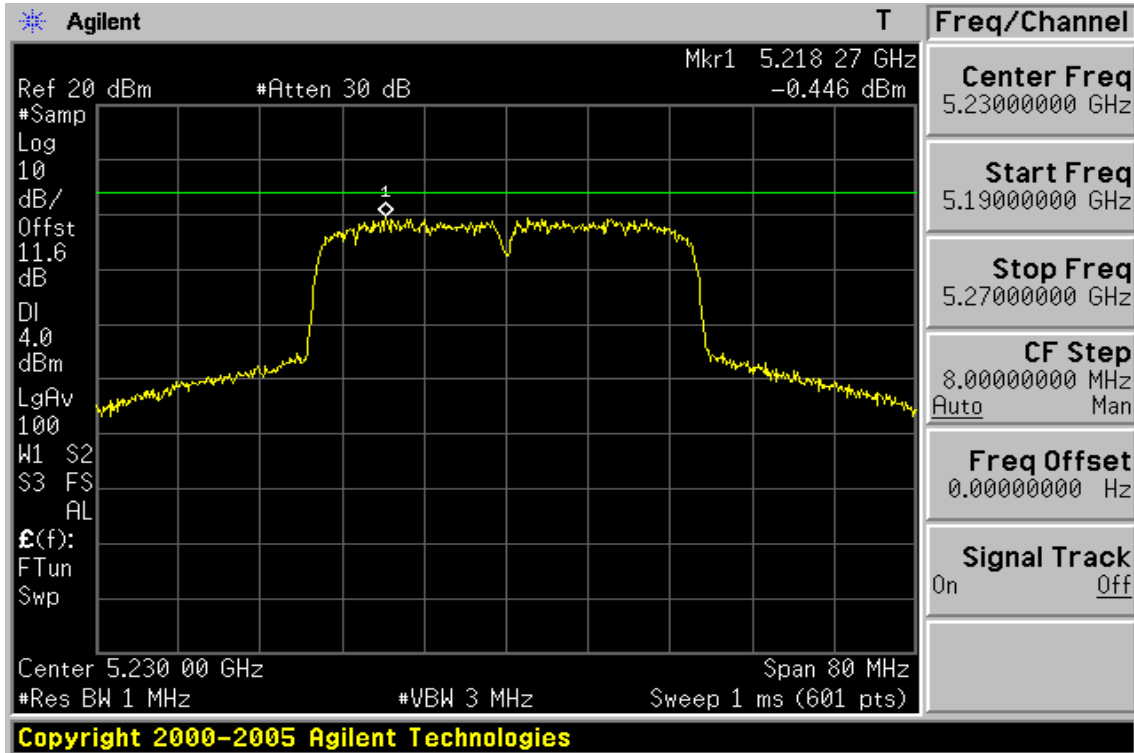
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### 802.11n HT40, 5150~5250 MHz

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



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



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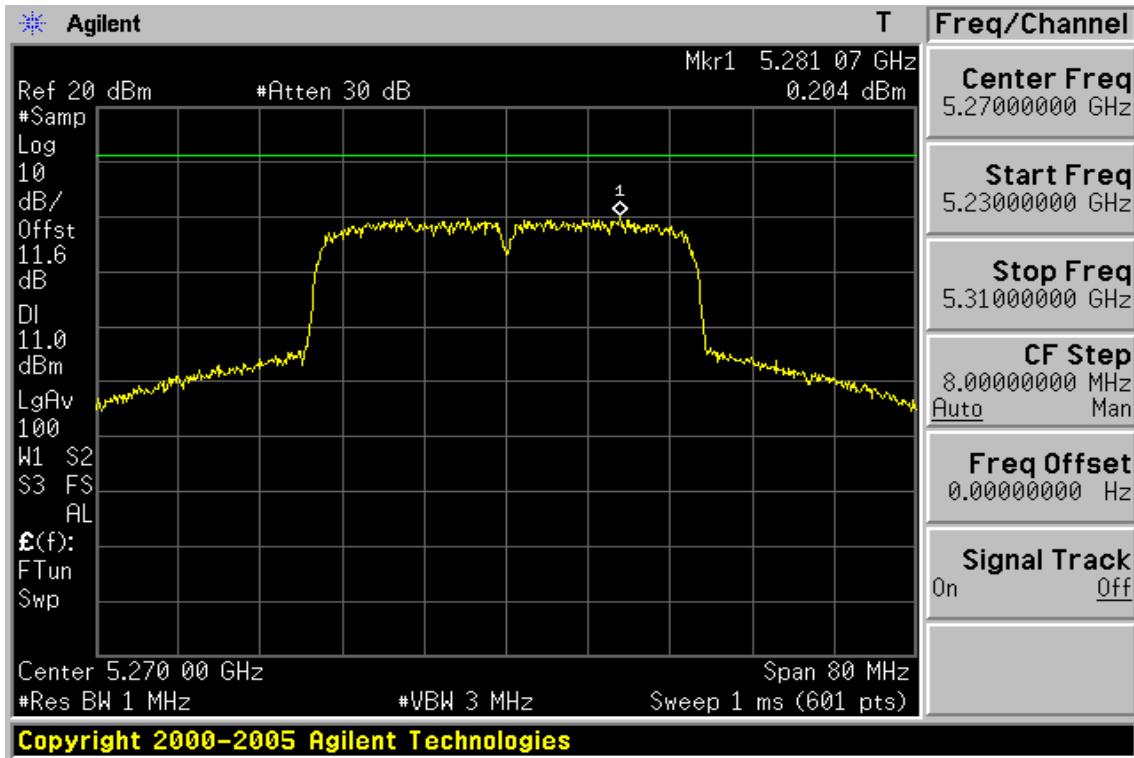
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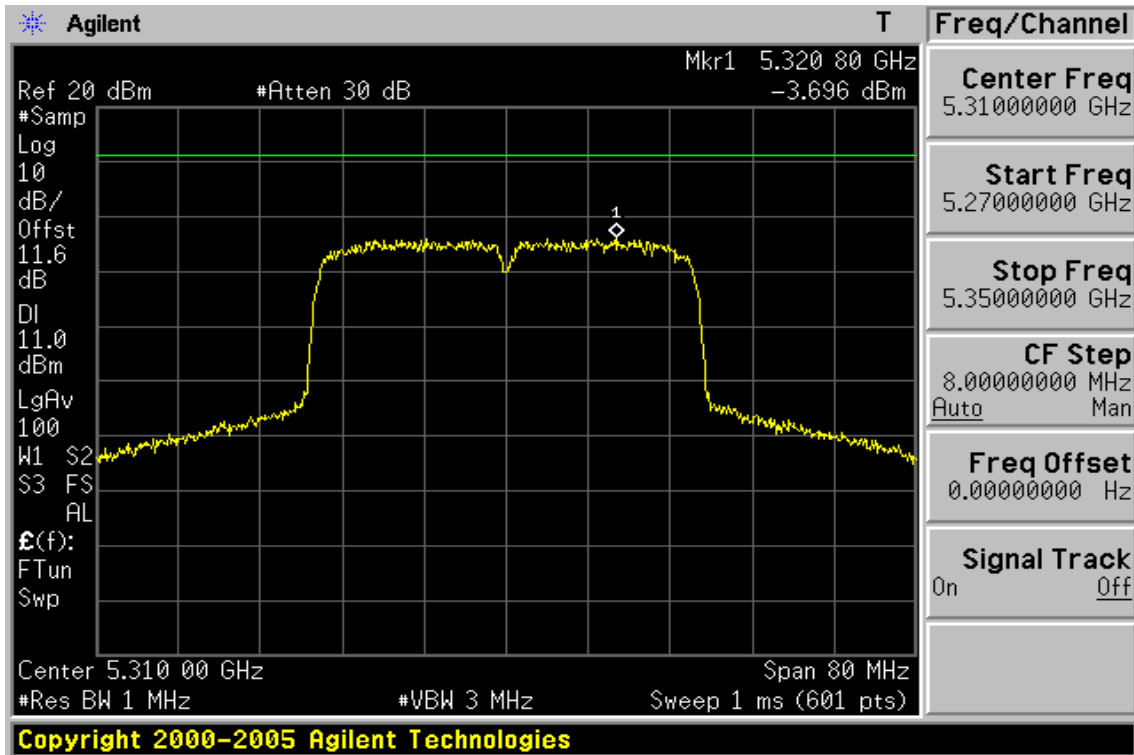


### 802.11n HT40, 5250~5350 MHz

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



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



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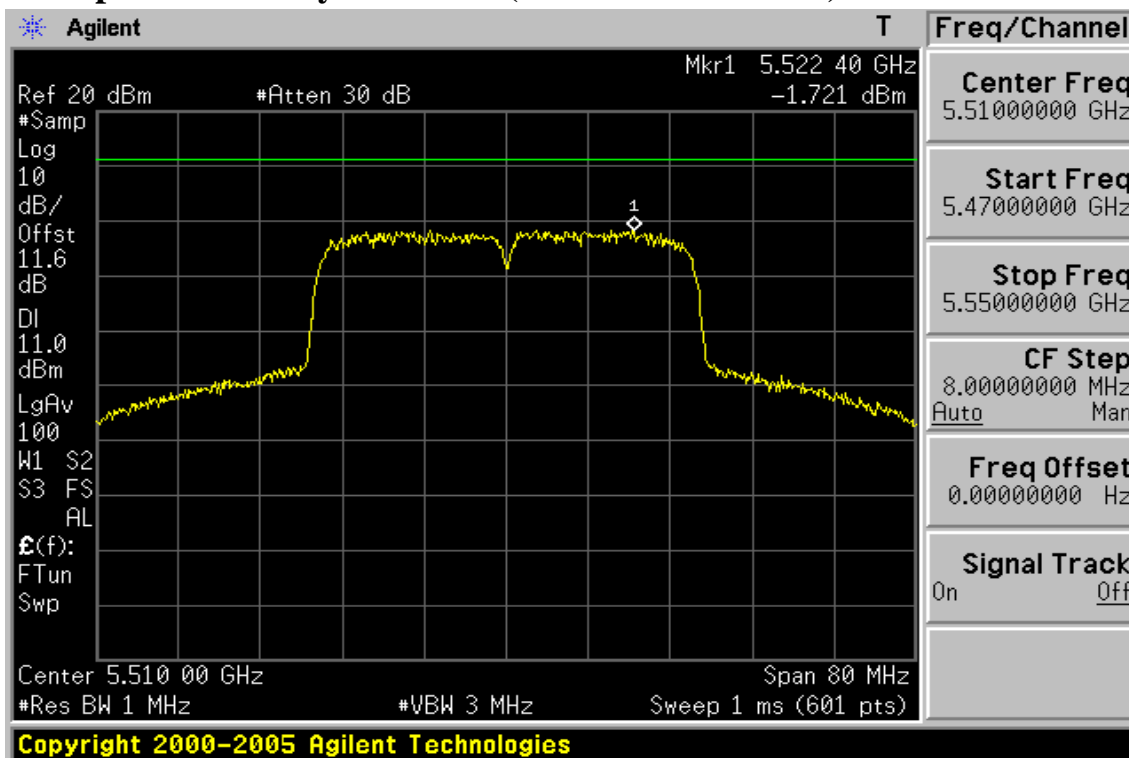
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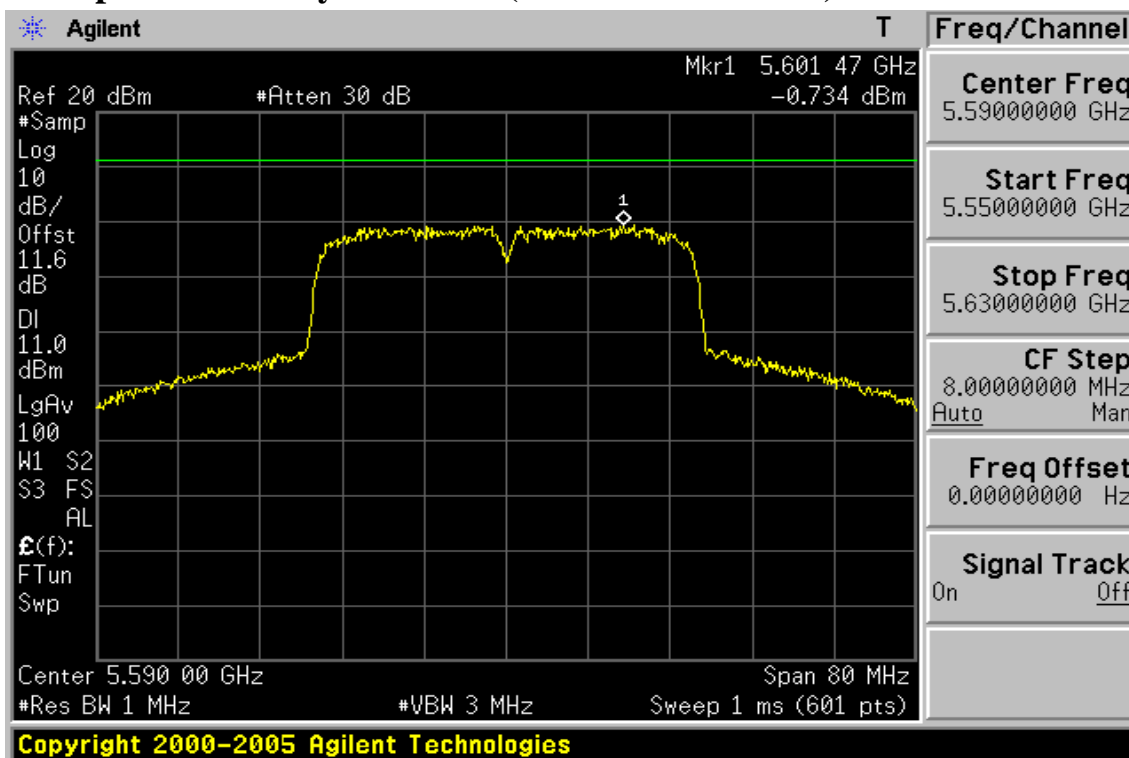
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### 802.11n HT40, 5470~5725 MHz

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



#### Peak Power Spectral Density Data Plot (CH Mid 5590 MHz)



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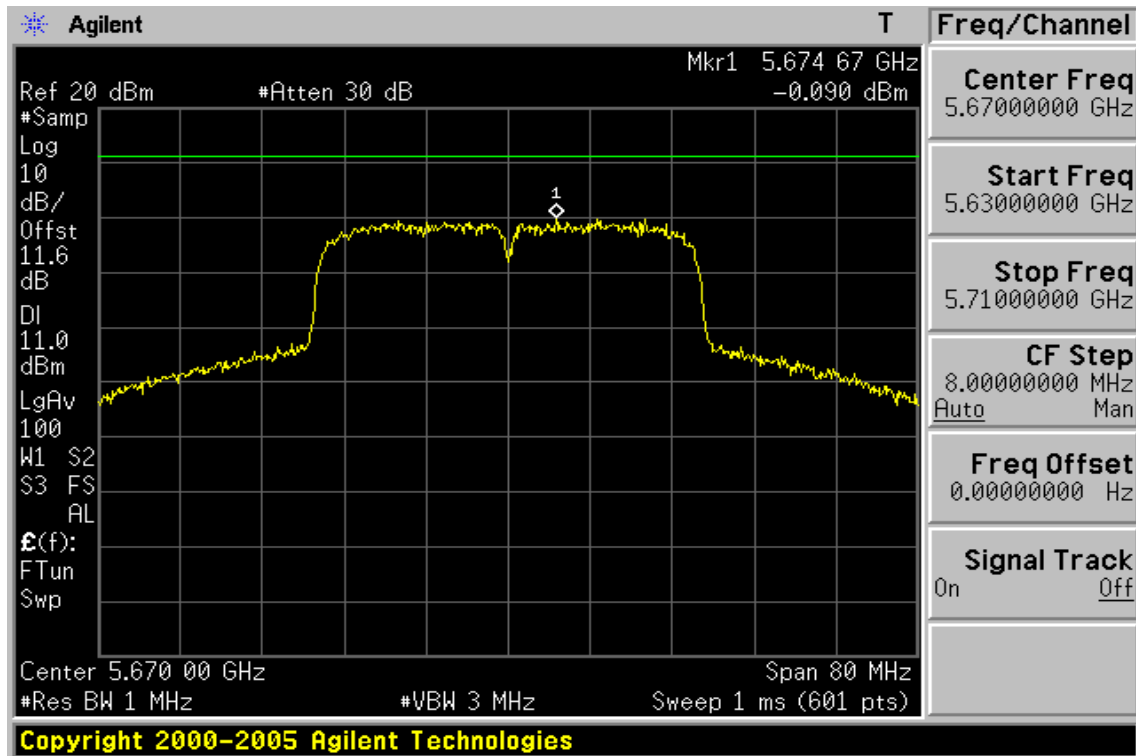
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### Peak Power Spectral Density Data Plot (CH High 5670 MHz)



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## 10. PEAK EXCURSION MEASUREMENT

### 10.1 Standard Applicable

15.407(a)(6) The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the peak transmit power (measured as specified above) shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

### 10.2 Measurement Procedure (following procedure G in KDB789033)

1. Pre-evaluation in selection for test mode based on KDB789033
2. Tests mode selection is based on the variations in signal structure,
  - (i) All signal types - OFDM;
  - (ii) All modulation types (BPSK, QPSK, 16-QAM, 64-QAM);
  - (iii) All bandwidth modes (20MHz, and 40MHz for 802.11n);
  - (iv) All variations in signal parameters (inapplicable);
  - (v) Error-correction coding rate (not required);
3. Place the EUT on the table and set it in transmitting mode.
4. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to spectrum.
5. Set RBW=1MHz, VBW = 3MHz, span =enough to capture the signal of the interest, Max. Hold, Detector = peak
6. use the procedure specified in kdB 789033 F) to determine the PPSD
7. compute the ratio of the maximum of the peak-max-hold spectrum to the PPSD by the subtraction
8. Repeat above procedures until all default test mode of default frequency band of the test is completed.

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802.11a

**Table 18-4—Modulation-dependent parameters**

Modulation	Coding rate (R)	Coded bits per subcarrier ( $N_{BPSC}$ )	Coded bits per OFDM symbol ( $N_{CBPS}$ )	Data bits per OFDM symbol ( $N_{DBPS}$ )	Data rate (Mb/s) (20 MHz channel spacing)	Data rate (Mb/s) (10 MHz channel spacing)	Data rate (Mb/s) (5 MHz channel spacing)
BPSK	1/2	1	48	24	6	3	1.5
BPSK	3/4	1	48	36	9	4.5	2.25
QPSK	1/2	2	96	48	12	6	3
QPSK	3/4	2	96	72	18	9	4.5
16-QAM	1/2	4	192	96	24	12	6
16-QAM	3/4	4	192	144	36	18	9
64-QAM	2/3	6	288	192	48	24	12
64-QAM	3/4	6	288	216	54	27	13.5

802.11n\_20

**Table 20-30—MCS parameters for mandatory 20 MHz,  $N_{SS} = 1$ ,  $N_{ES} = 1$**

MCS Index	Modulation	R	$N_{BPSC}(f_{SS})$	$N_{SD}$	$N_{SP}$	$N_{CBPS}$	$N_{DBPS}$	Data rate (Mb/s)	
								800 ns GI	400 ns GI (see NOTE)
0	BPSK	1/2	1	52	4	52	26	6.5	7.2
1	QPSK	1/2	2	52	4	104	52	13.0	14.4
2	QPSK	3/4	2	52	4	104	78	19.5	21.7
3	16-QAM	1/2	4	52	4	208	104	26.0	28.9
4	16-QAM	3/4	4	52	4	208	156	39.0	43.3
5	64-QAM	2/3	6	52	4	312	208	52.0	57.8
6	64-QAM	3/4	6	52	4	312	234	58.5	65.0
7	64-QAM	5/6	6	52	4	312	260	65.0	72.2

NOTE—Support of 400 ns GI is optional on transmit and receive.

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802.11n\_40

Table 20-34—MCS parameters for optional 40 MHz,  $N_{SS} = 1$ ,  $N_{ES} = 1$

MCS Index	Modulation	R	$N_{BPSCS}(i_{SS})$	$N_{SD}$	$N_{SP}$	$N_{CBPS}$	$N_{DBPS}$	Data rate (Mb/s)	
								800 ns GI	400 ns GI
0	BPSK	1/2	1	108	6	108	54	13.5	15.0
1	QPSK	1/2	2	108	6	216	108	27.0	30.0
2	QPSK	3/4	2	108	6	216	162	40.5	45.0
3	16-QAM	1/2	4	108	6	432	216	54.0	60.0
4	16-QAM	3/4	4	108	6	432	324	81.0	90.0
5	64-QAM	2/3	6	108	6	648	432	108.0	120.0
6	64-QAM	3/4	6	108	6	648	486	121.5	135.0
7	64-QAM	5/6	6	108	6	648	540	135.0	150.0

Note: The test mode to be performed is circle in red as presents above

### 10.3 Measurement Equipment Used:

Refer to section 7.3 for details.

### 10.4 Test Set-up:

Refer to section 7.4 for details.

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#### 10.4 Test Results:

Modulation Type : BPSK

Coding Rate : 1/2

802.11a, 5150~5250 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5220	4.83	2.99	1.84	13.00

802.11a, 5250~5350 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5300	4.92	3.31	1.61	13.00

802.11a, 5470~5725 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5580	4.94	2.7	2.24	13.00

802.11n HT20, 5150~5250 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5220	4.80	2.57	2.23	13.00

802.11n HT20, 5250~5350 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5300	4.50	2.49	2.01	13.00

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802.11n HT20, 5470~5725 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5580	5.13	2.78	2.35	13.00

802.11n HT40, 5150~5250 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5190	1.70	-4.78	6.48	13.00

802.11n HT40, 5250~5350 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5270	2.27	0.20	2.07	13.00

802.11n HT40, 5470~5725 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5510	1.37	-1.72	3.09	13.00

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Modulation Type : QPSK

Coding Rate : 1/2

802.11a, 5150~5250 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5220	4.77	-5.645	10.42	13.00

802.11a, 5250~5350 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5300	5.50	-4.948	10.45	13.00

802.11a, 5470~5725 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5580	5.07	-5.255	10.33	13.00

802.11n HT20, 5150~5250 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5220	4.73	-6.311	11.04	13.00

802.11n HT20, 5250~5350 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5300	5.92	-5.34	11.26	13.00

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802.11n HT20, 5470~5725 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5580	4.50	-5.828	10.33	13.00

802.11n HT40, 5150~5250 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5190	2.58	-6.324	8.90	13.00

802.11n HT40, 5250~5350 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5270	3.47	-5.89	9.36	13.00

802.11n HT40, 5470~5725 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5510	1.23	-6.519	7.75	13.00

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**Modulation Type : 16-QAM**

**Coding Rate : 1/2**

802.11a, 5150~5250 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5220	5.70	-6.048	11.75	13.00

802.11a, 5250~5350 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5300	6.37	-5.164	11.53	13.00

802.11a, 5470~5725 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5580	5.36	-5.92	11.28	13.00

802.11n HT20, 5150~5250 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5220	5.70	-6.063	11.76	13.00

802.11n HT20, 5250~5350 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5300	5.37	-4.983	10.35	13.00

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802.11n HT20, 5470~5725 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5580	5.01	-5.76	10.77	13.00

802.11n HT40, 5150~5250 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5190	2.69	-6.002	8.69	13.00

802.11n HT40, 5250~5350 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5270	2.81	-6.04	8.85	13.00

802.11n HT40, 5470~5725 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5510	1.78	-6.474	8.25	13.00

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**Modulation Type : 64-QAM**

**Coding Rate : 2/3**

802.11a, 5150~5250 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5220	5.74	-6.173	11.91	13.00

802.11a, 5250~5350 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5300	7.03	-5.233	12.26	13.00

802.11a, 5470~5725 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5580	5.68	-6.034	11.71	13.00

802.11n HT20, 5150~5250 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5220	5.69	-6.516	12.21	13.00

802.11n HT20, 5250~5350 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5300	5.62	-5.983	11.60	13.00

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802.11n HT20, 5470~5725 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5580	5.38	-6.582	11.96	13.00

802.11n HT40, 5150~5250 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5190	3.79	-6.168	9.96	13.00

802.11n HT40, 5250~5350 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5270	3.68	-6.082	9.76	13.00

802.11n HT40, 5470~5725 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5510	1.87	-6.683	8.55	13.00

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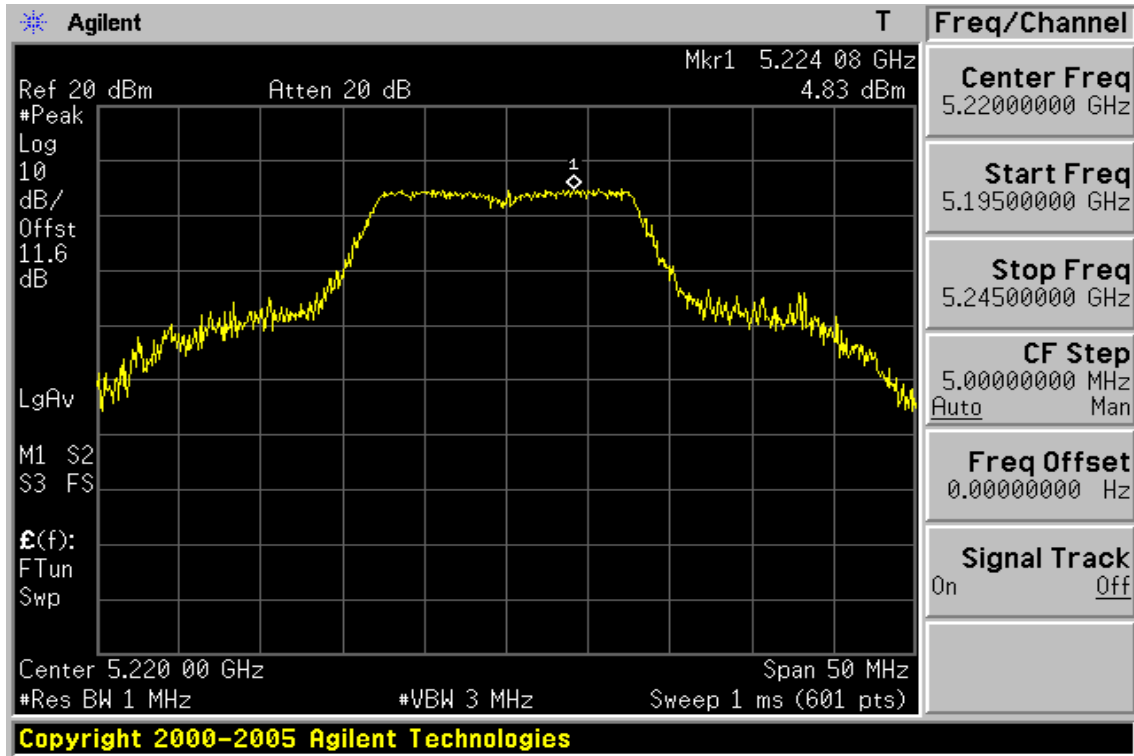
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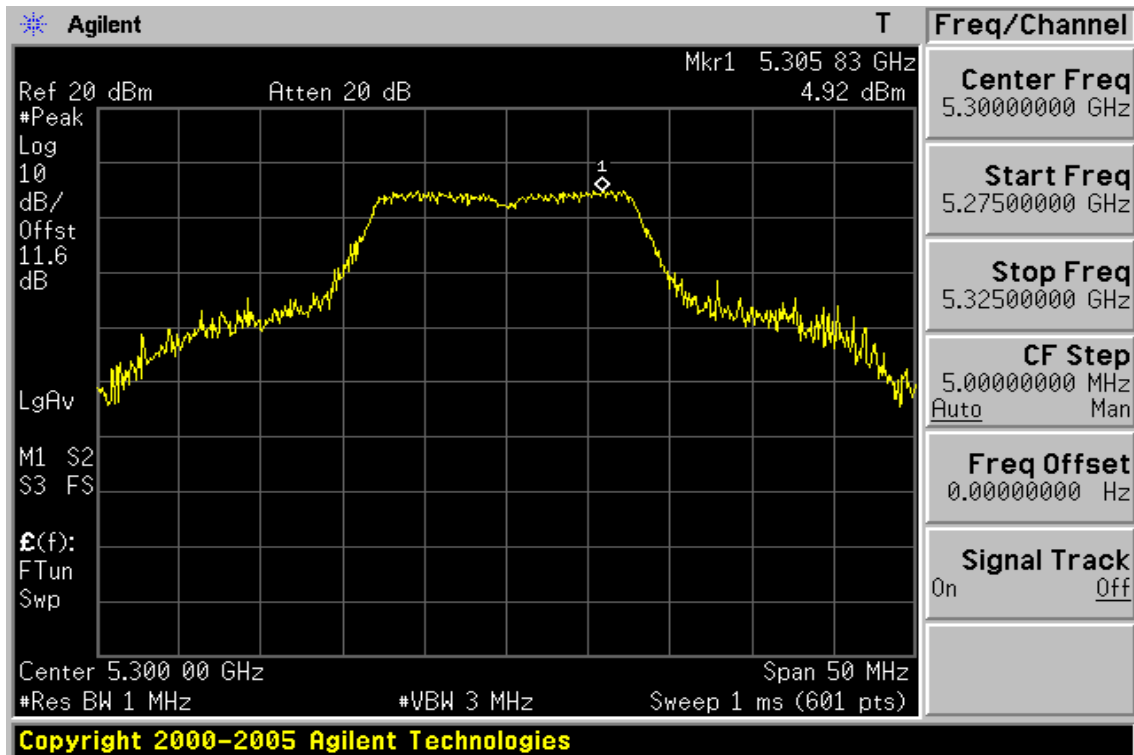
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**Modulation Type: BPSK, Coding Rate : 1/2**  
**802.11a, 5150~5250 MHz, Peak Value Data Plot (CH Mid 5220 MHz)**



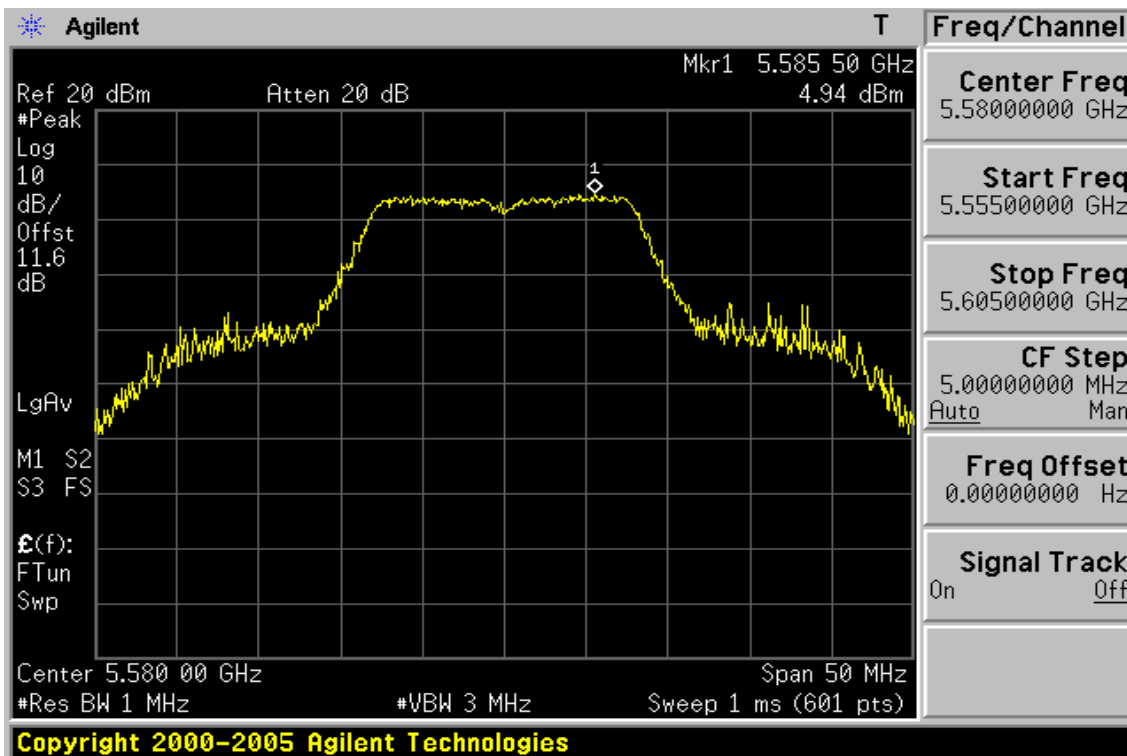
**802.11a, 5250~5350 MHz, Peak Value Data Plot (CH Mid 5300 MHz)**



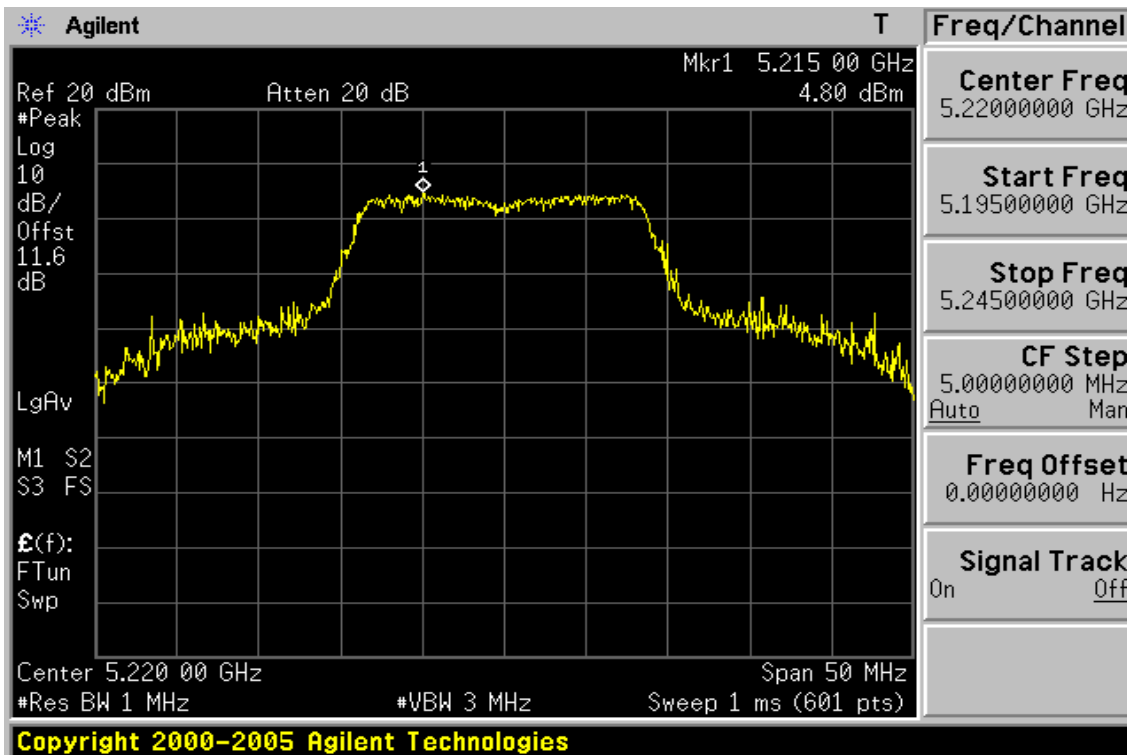
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**802.11a, 5470~5725 MHz, Peak Value Data Plot (CH Mid 5580 MHz)**



**802.11n HT20, 5150~5250 MHz, Peak Value Data Plot (CH Mid 5220 MHz)**

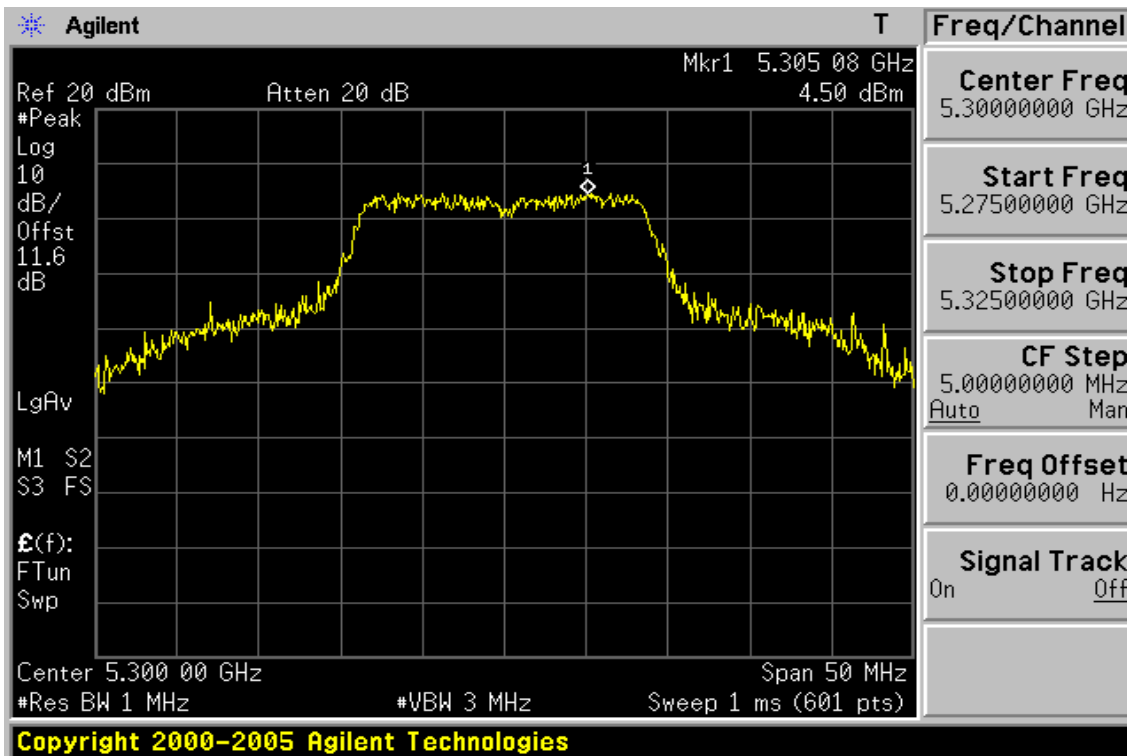


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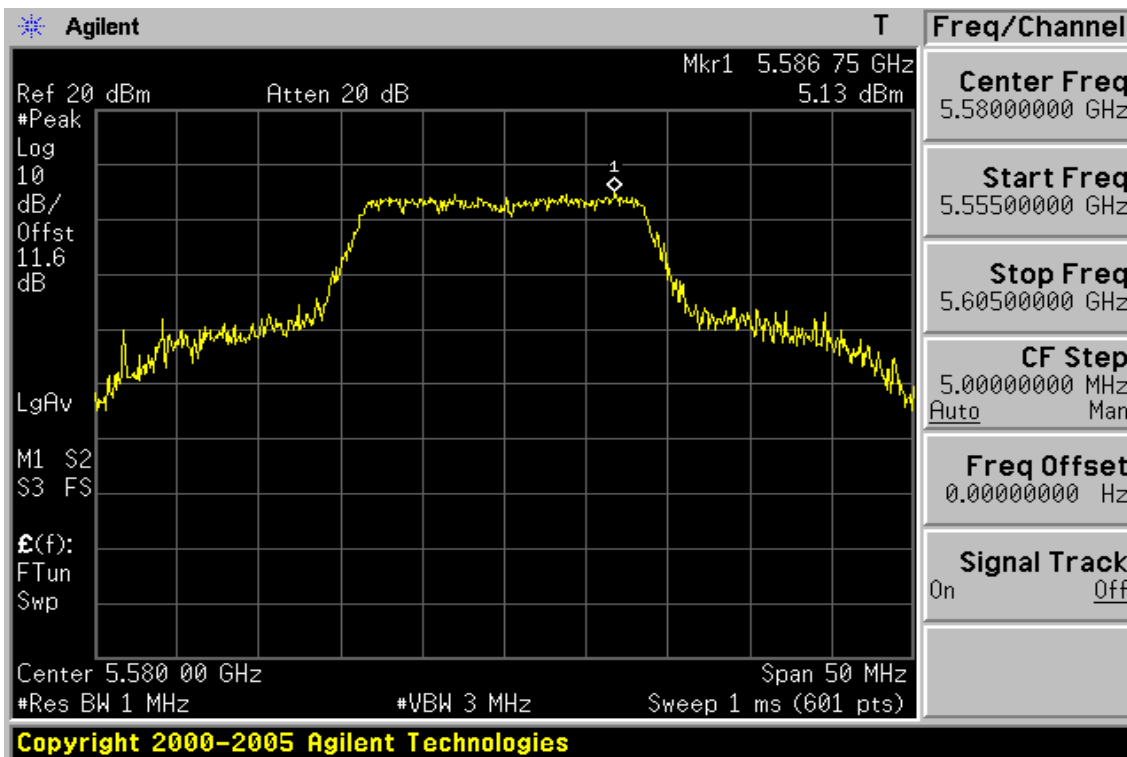
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802.11n HT20, 5250~5350 MHz, Peak Value Data Plot (CH Mid 5300MHz)



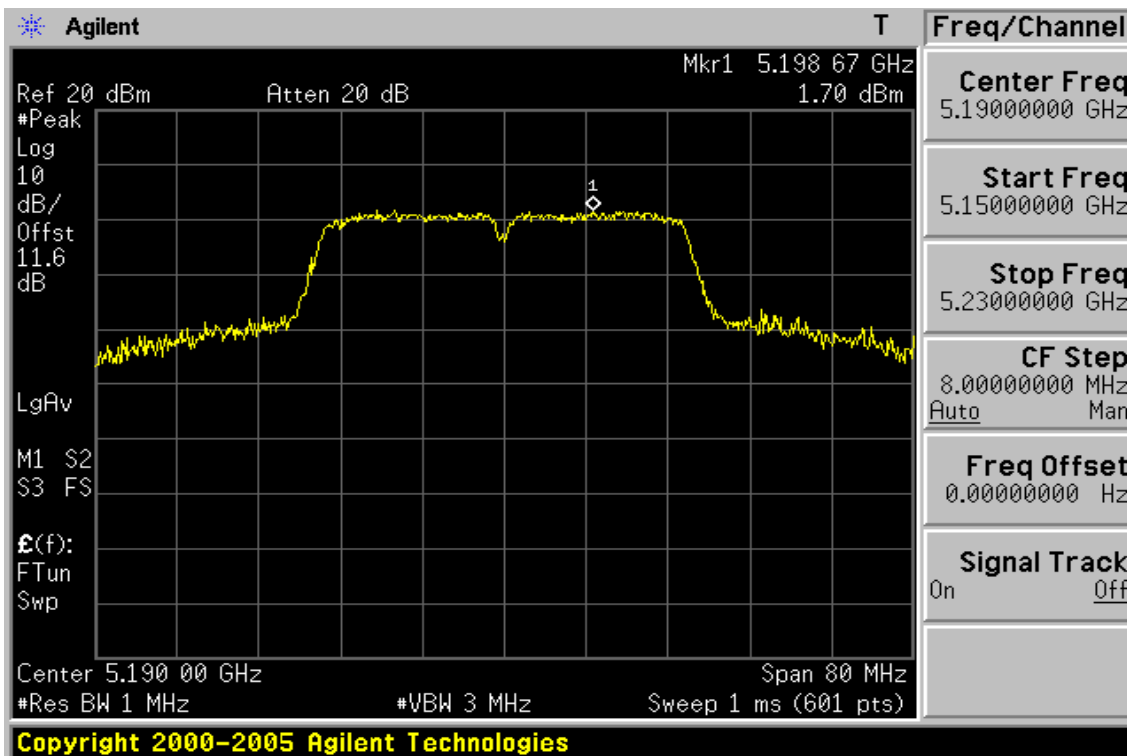
802.11n HT20, 5470~5725 MHz, Peak Value Data Plot (CH Mid 5580 MHz)



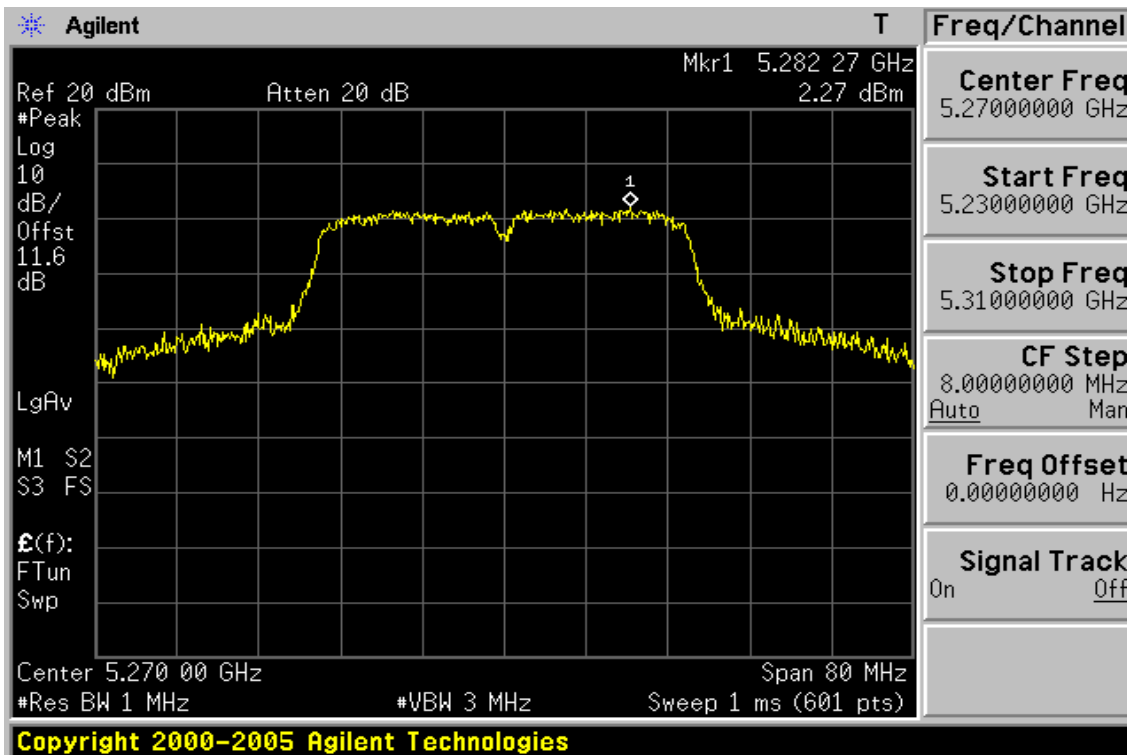
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**802.11n HT40, 5150~5250 MHz, Peak Value Data Plot (CH Low 5190 MHz)**



**802.11n HT40, 5250~5350 MHz, Peak Value Data Plot (CH Low 5270 MHz)**



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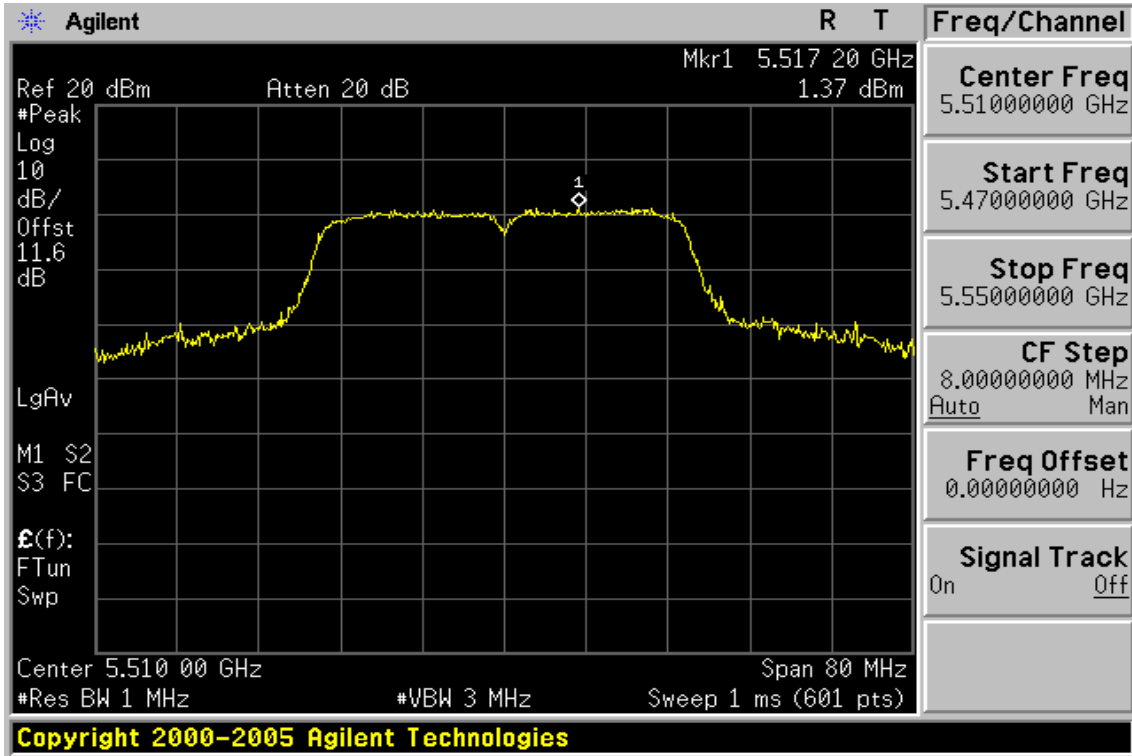
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**802.11n HT40, 5470~5725 MHz, Peak Value Data Plot (CH Low 5510MHz)**



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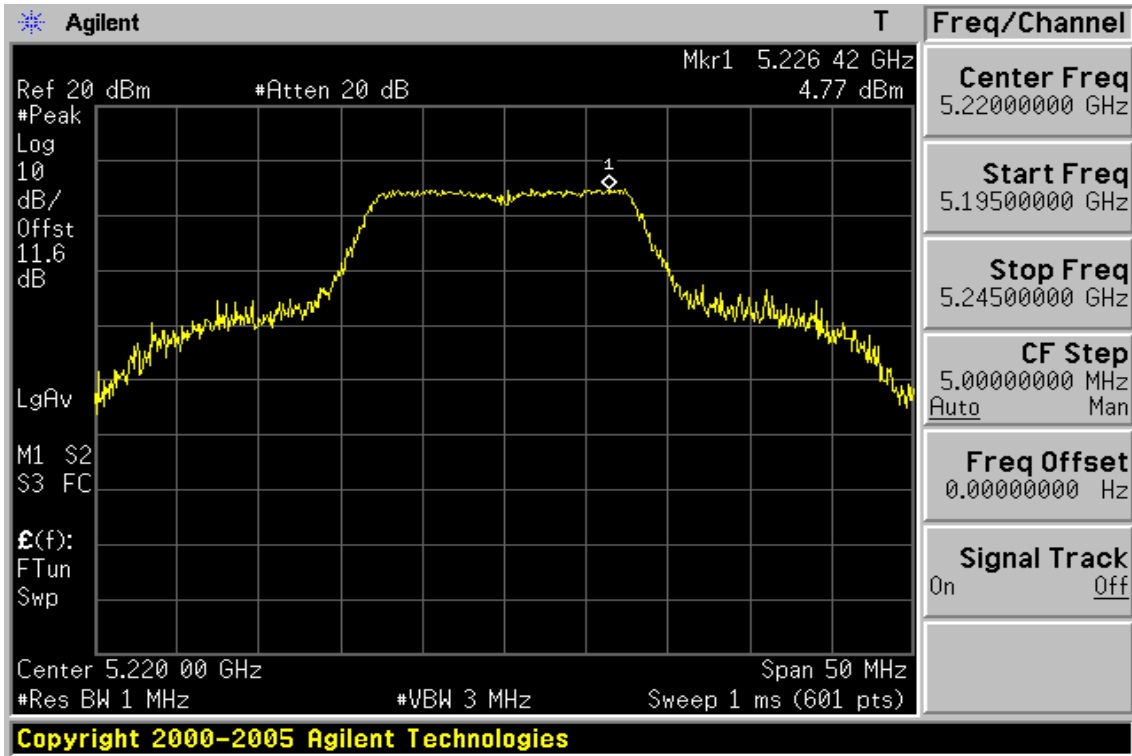
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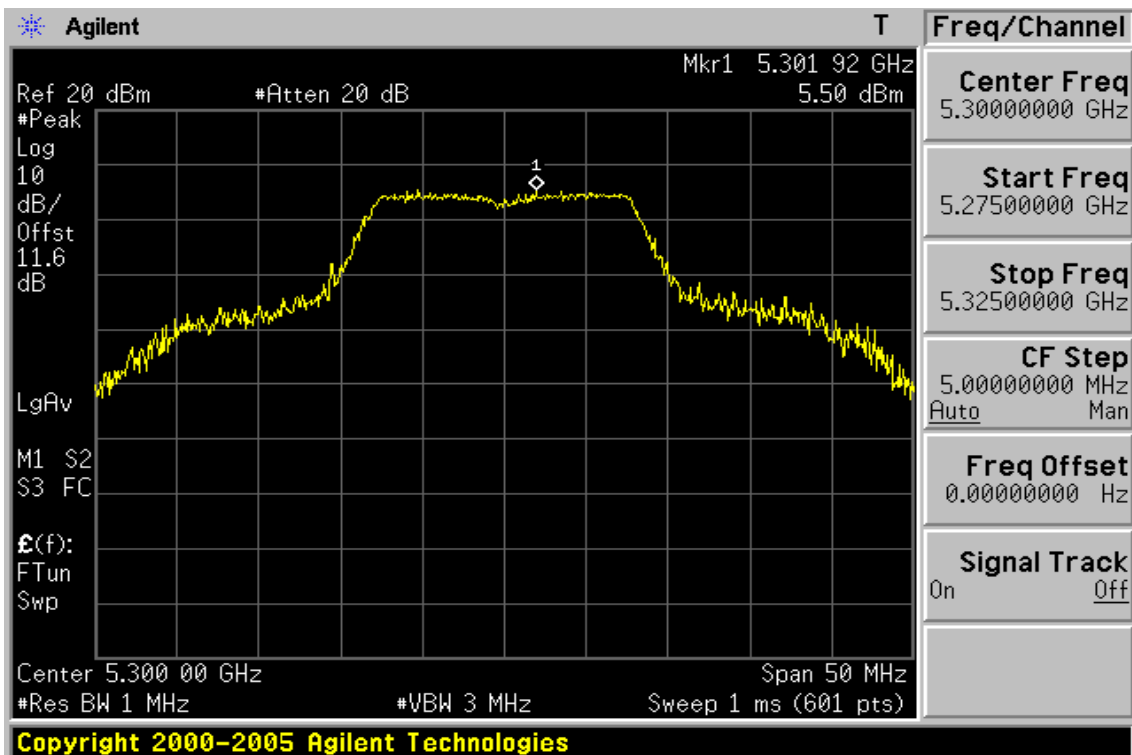
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Modulation Type : QPSK, Coding Rate : 1/2

802.11a, 5150~5250 MHz, Peak Value Data Plot (CH Mid 5220 MHz)



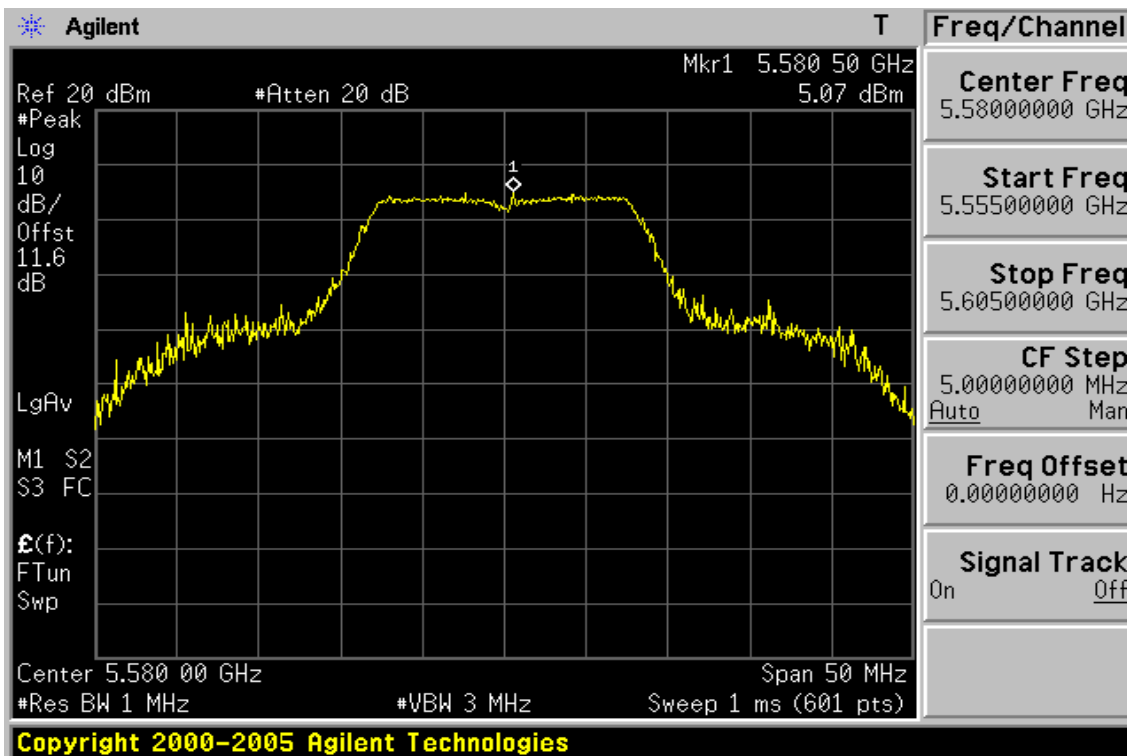
802.11a, 5250~5350 MHz, Peak Value Data Plot (CH Mid 5300 MHz)



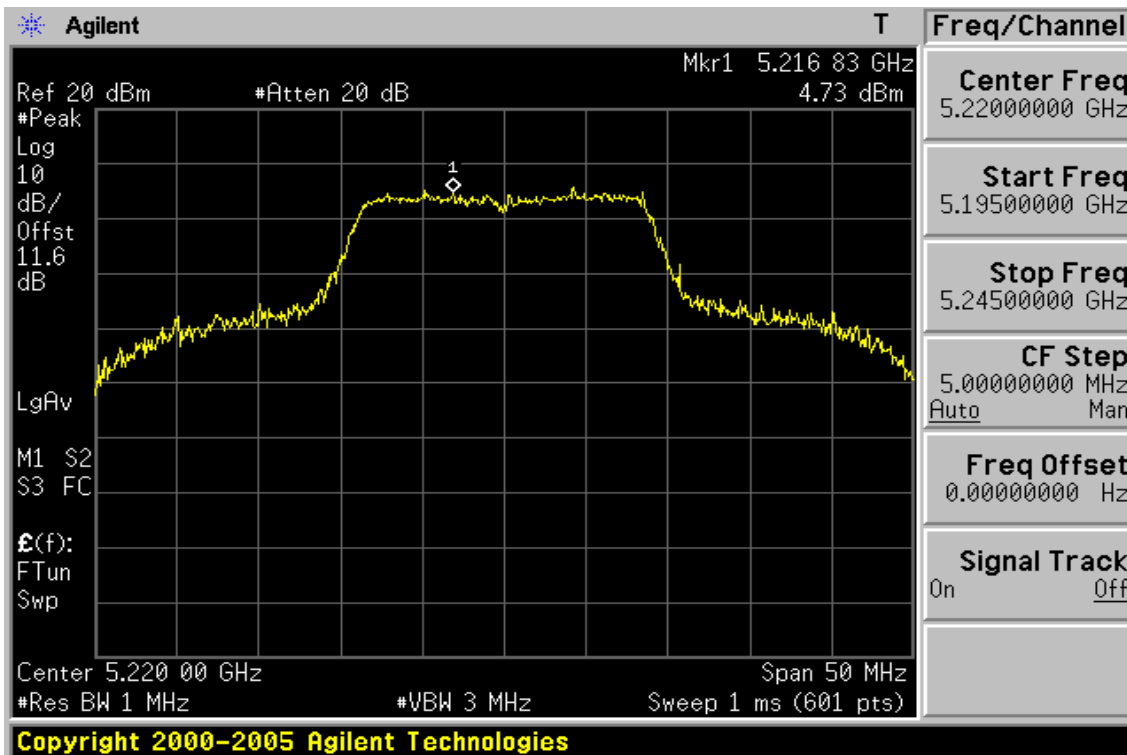
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**802.11a, 5470~5725 MHz, Peak Value Data Plot (CH Mid 5580 MHz)**



**802.11n HT20, 5150~5250 MHz, Peak Value Data Plot (CH Mid 5220 MHz)**



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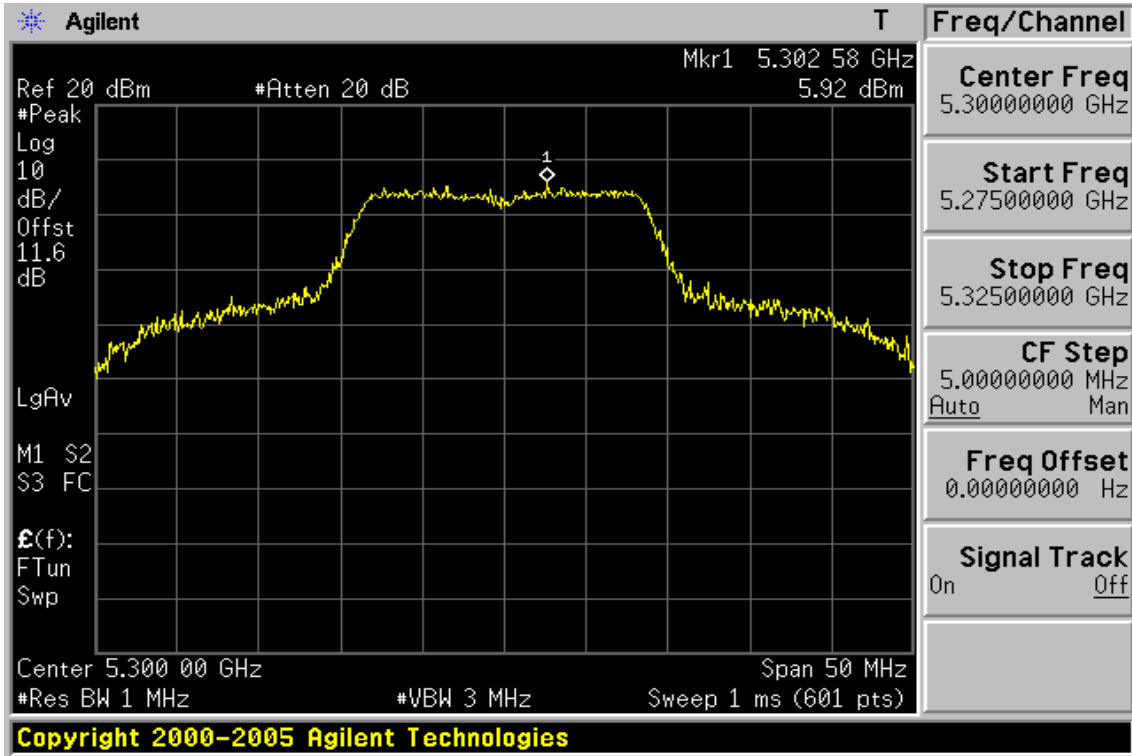
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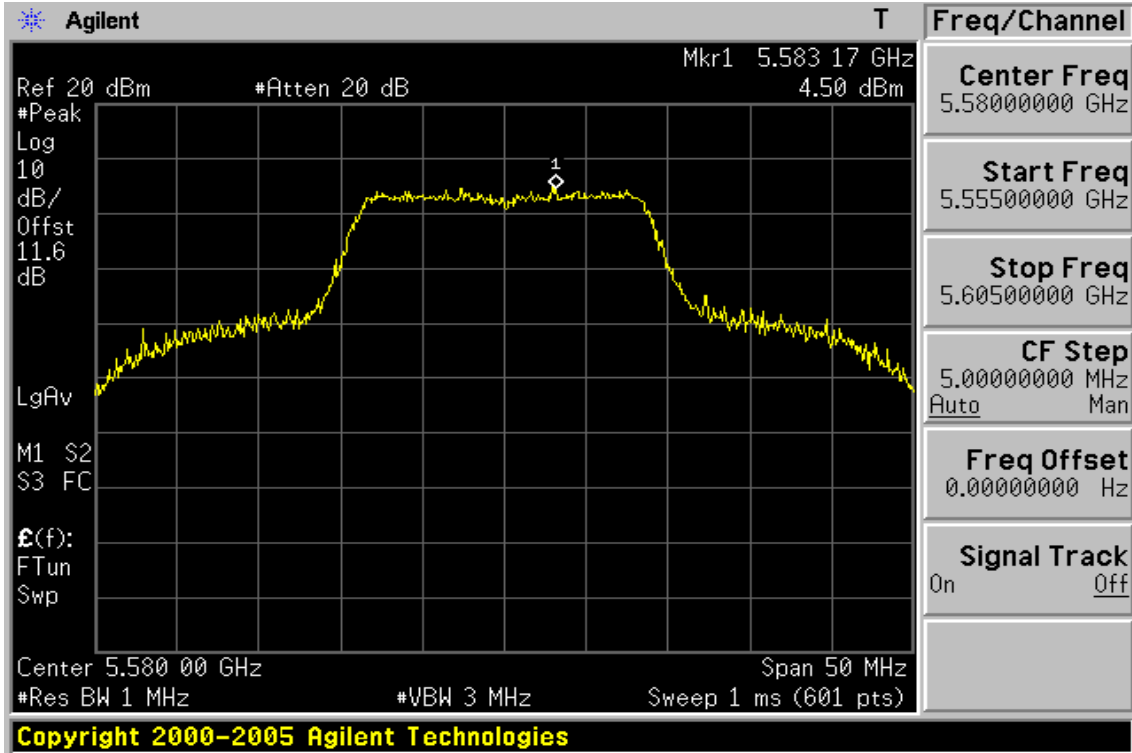
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802.11n HT20, 5250~5350 MHz, Peak Value Data Plot (CH Mid 5300MHz)



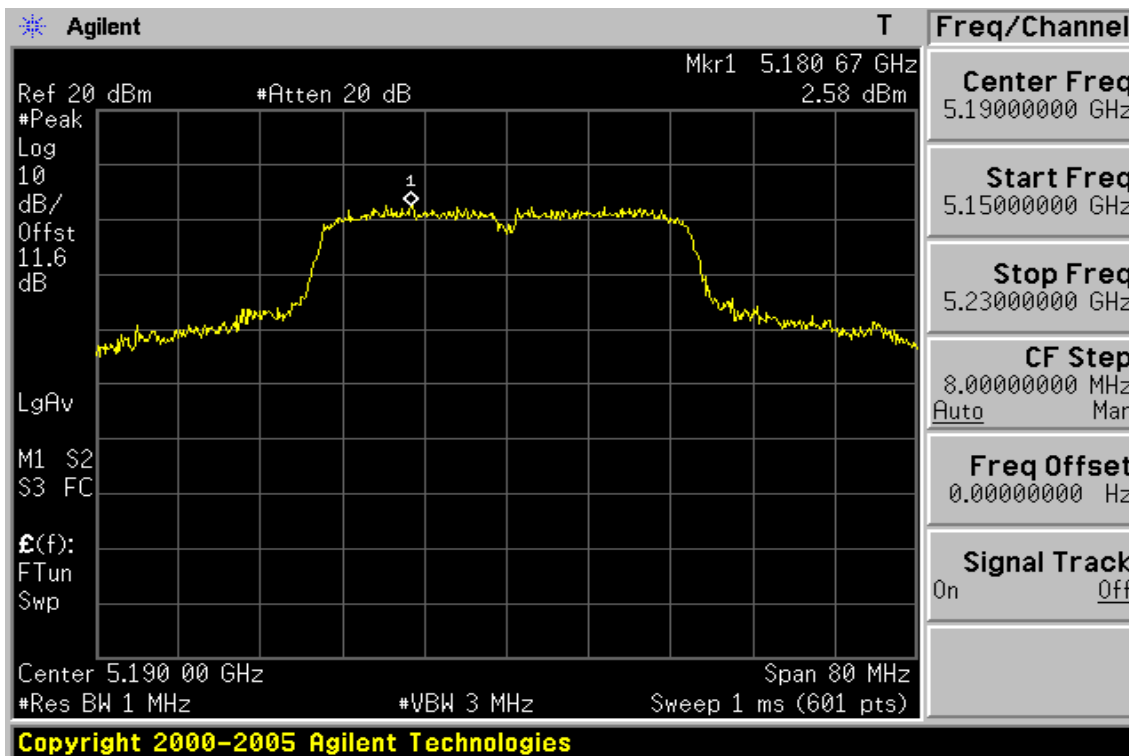
802.11n HT20, 5470~5725 MHz, Peak Value Data Plot (CH Mid 5580 MHz)



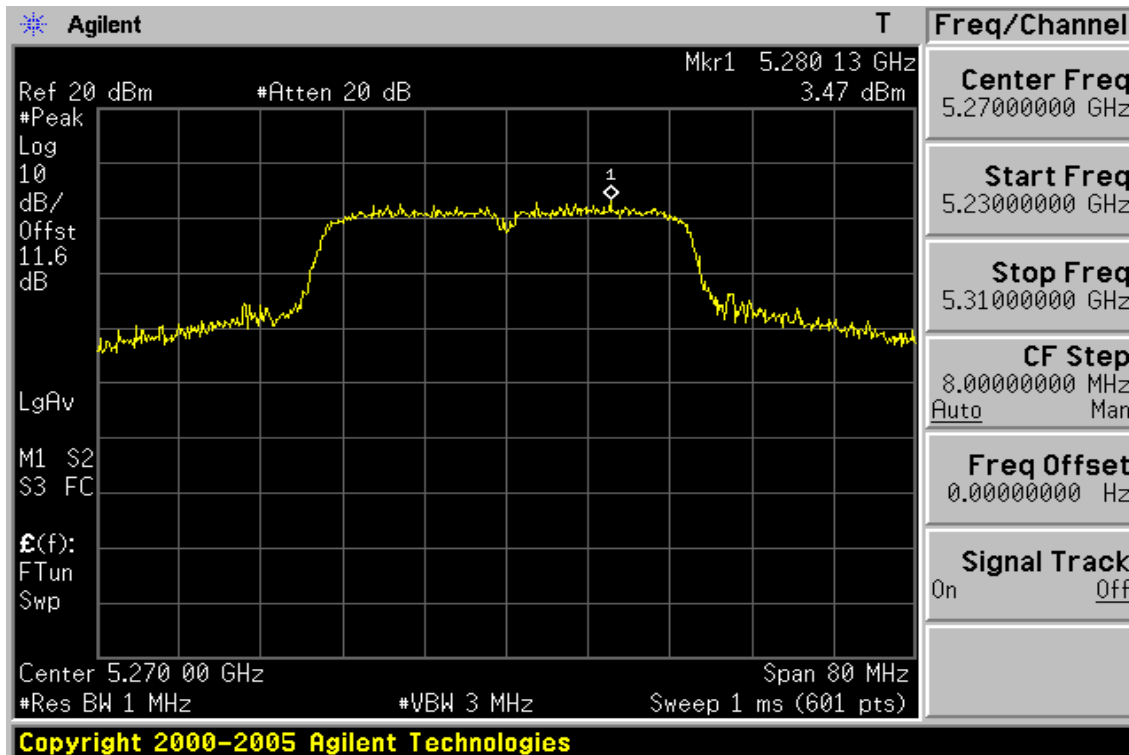
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### 802.11n HT40, 5150~5250 MHz, Peak Value Data Plot (CH Low 5190 MHz)



### 802.11n HT40, 5250~5350 MHz, Peak Value Data Plot (CH Low 5270 MHz)



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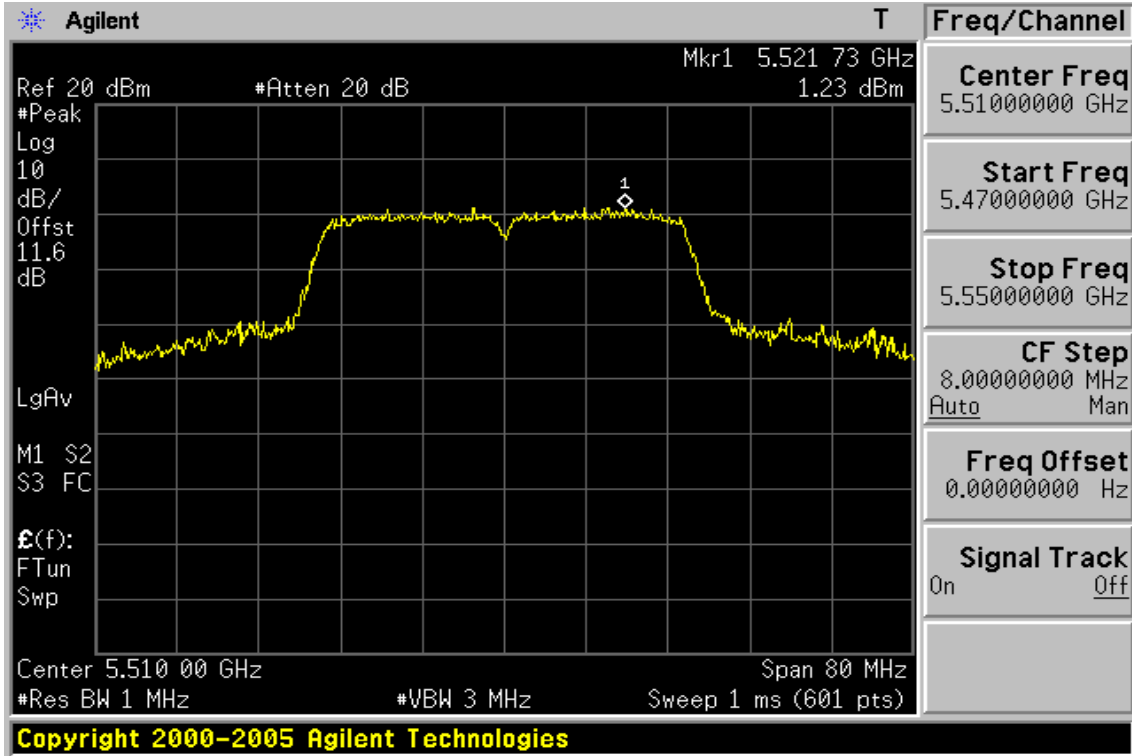
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802.11n HT40, 5470~5725 MHz, Peak Value Data Plot (CH Low 5510MHz)

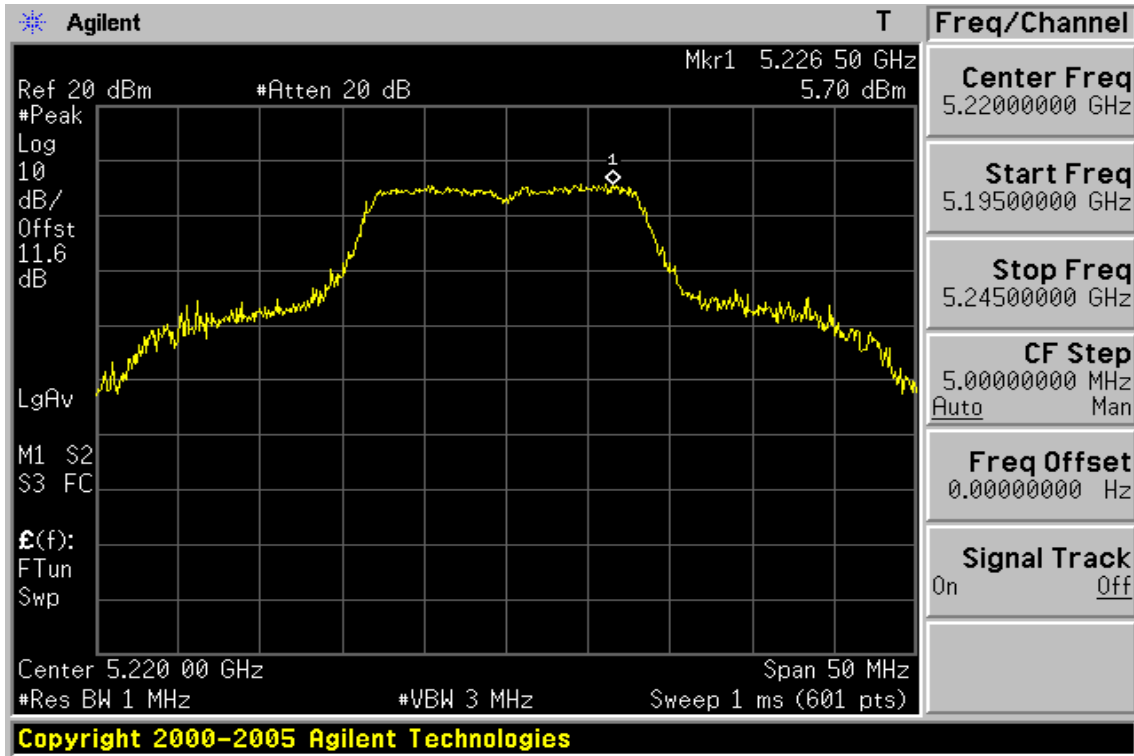


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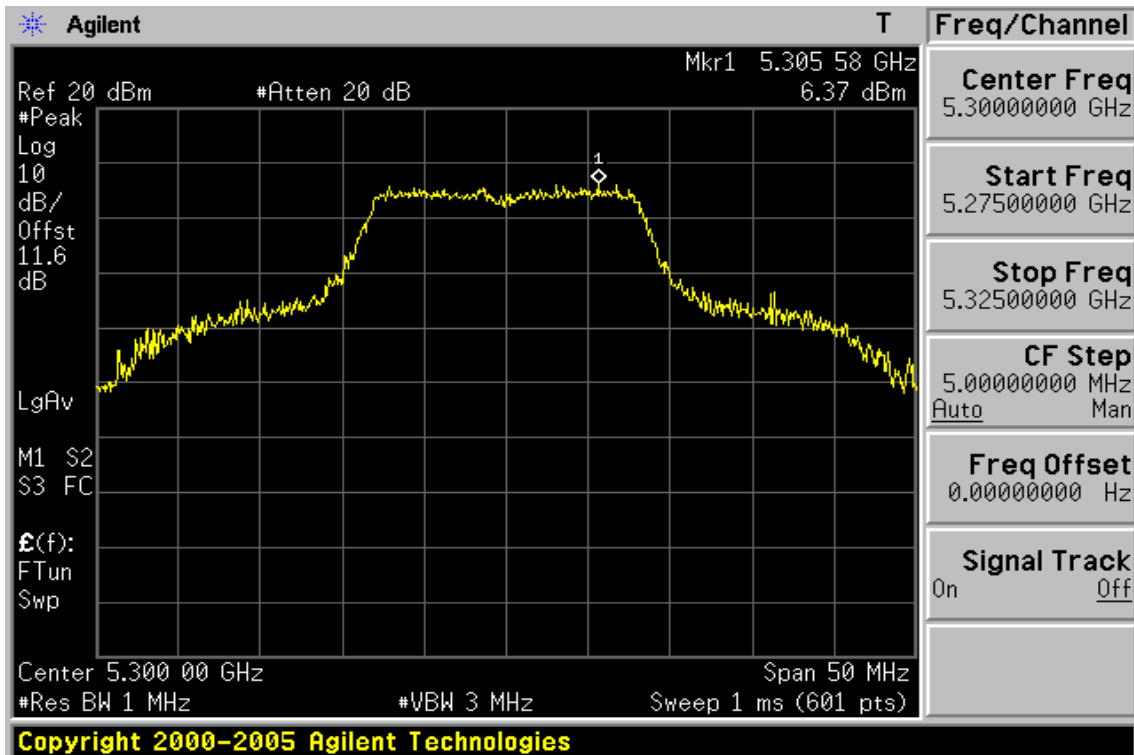
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**Modulation Type : 16-QAM, Coding Rate : 1/2**  
**802.11a, 5150~5250 MHz, Peak Value Data Plot (CH Mid 5220 MHz)**



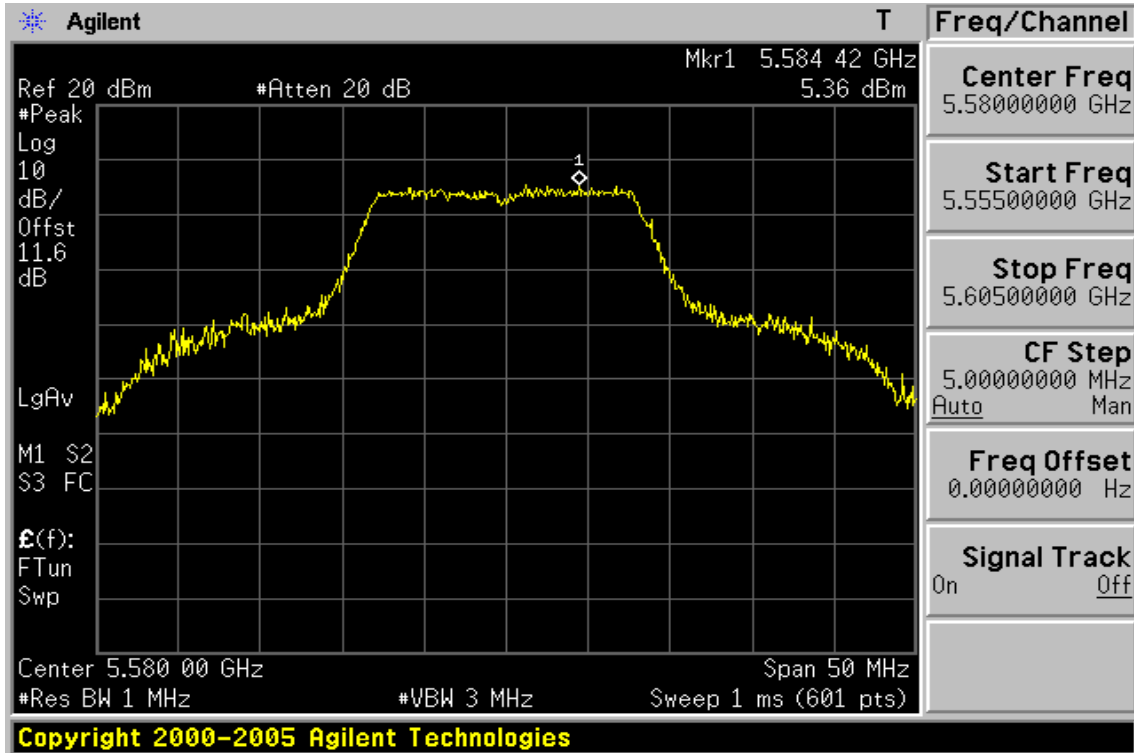
**802.11a, 5250~5350 MHz, Peak Value Data Plot (CH Mid 5300 MHz)**



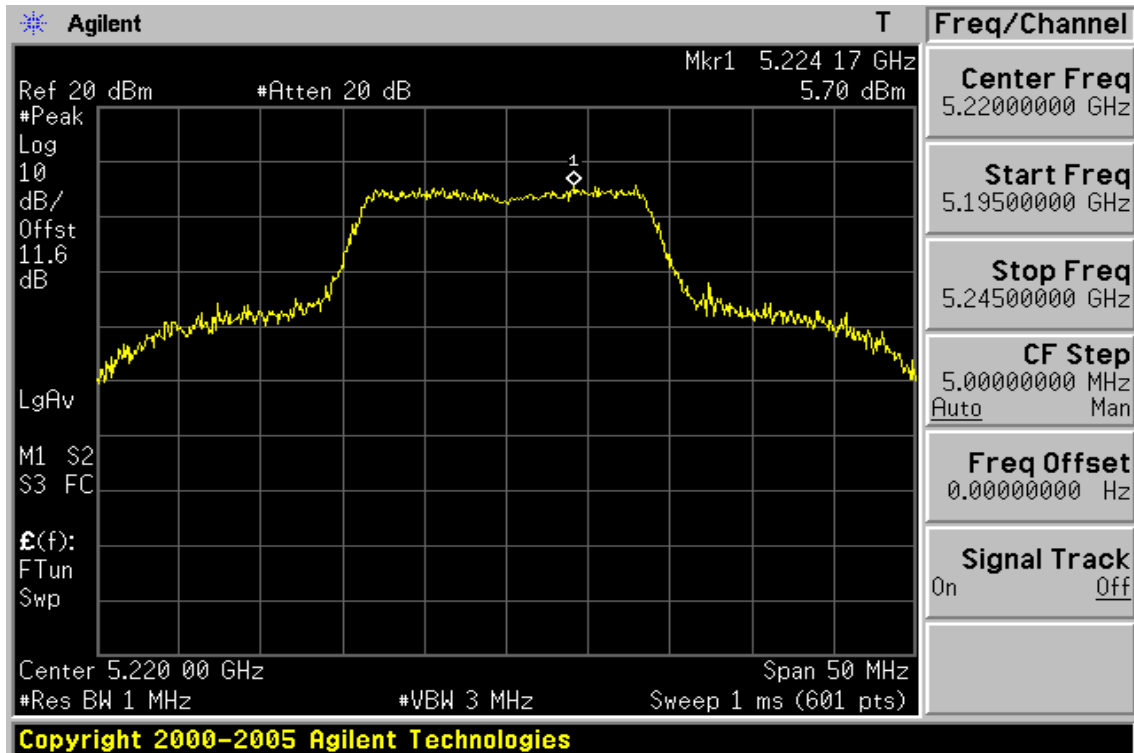
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**802.11a, 5470~5725 MHz, Peak Value Data Plot (CH Mid 5580 MHz)**



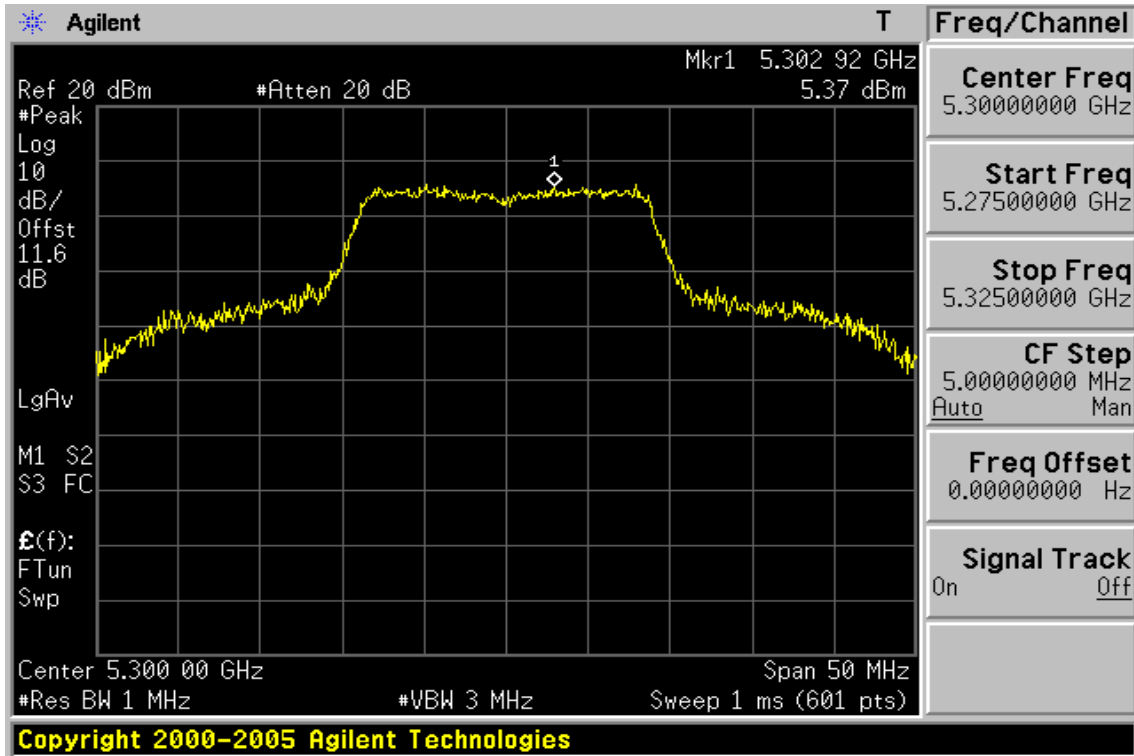
**802.11n HT20, 5150~5250 MHz, Peak Value Data Plot (CH Mid 5220 MHz)**



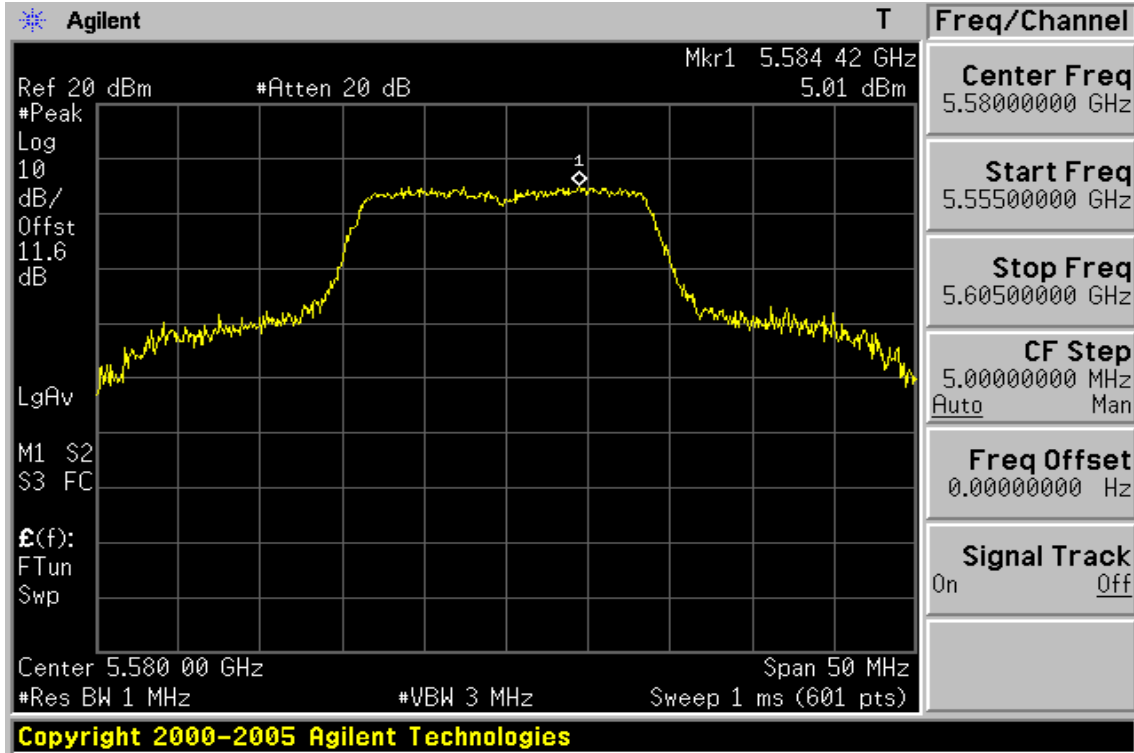
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802.11n HT20, 5250~5350 MHz, Peak Value Data Plot (CH Mid 5300MHz)



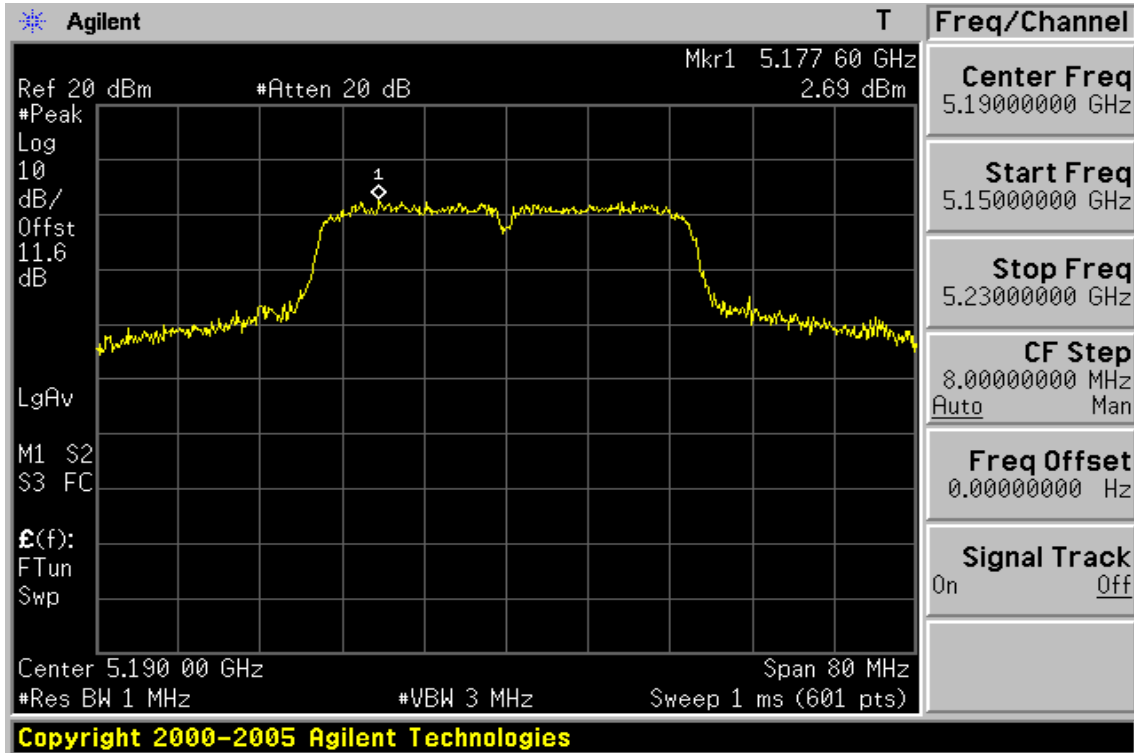
802.11n HT20, 5470~5725 MHz, Peak Value Data Plot (CH Mid 5580 MHz)



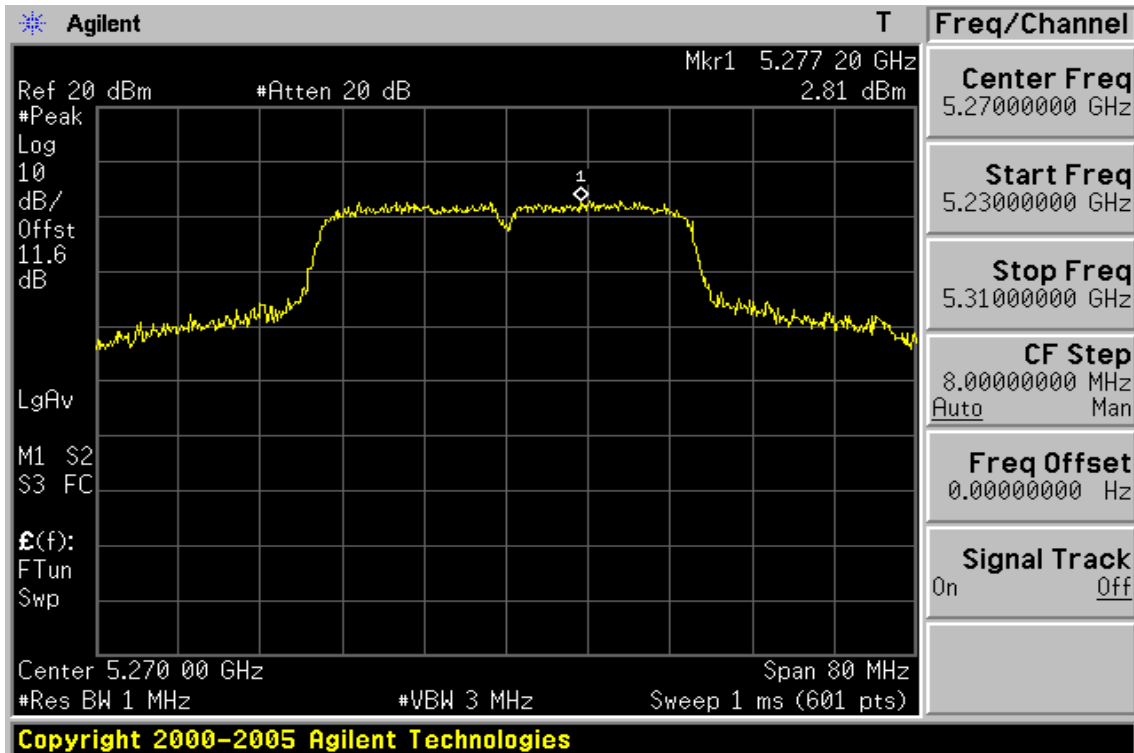
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**802.11n HT40, 5150~5250 MHz, Peak Value Data Plot (CH Low 5190 MHz)**



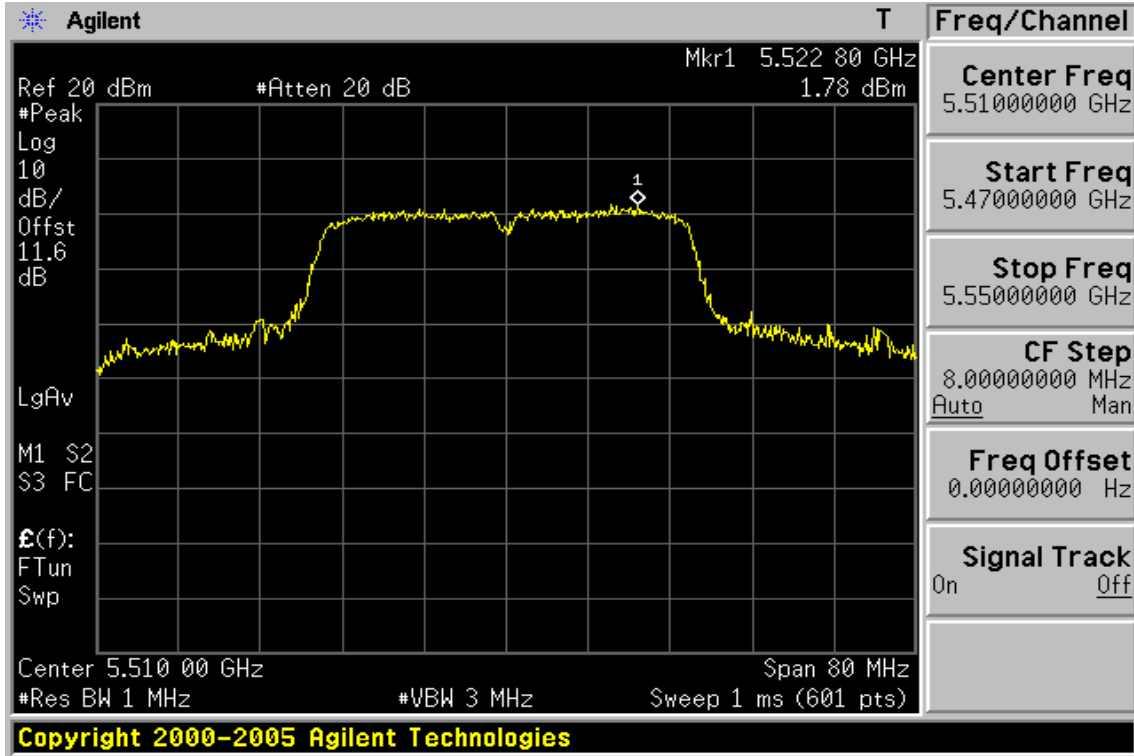
**802.11n HT40, 5250~5350 MHz, Peak Value Data Plot (CH Low 5270 MHz)**



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**802.11n HT40, 5470~5725 MHz, Peak Value Data Plot (CH Low 5510MHz)**

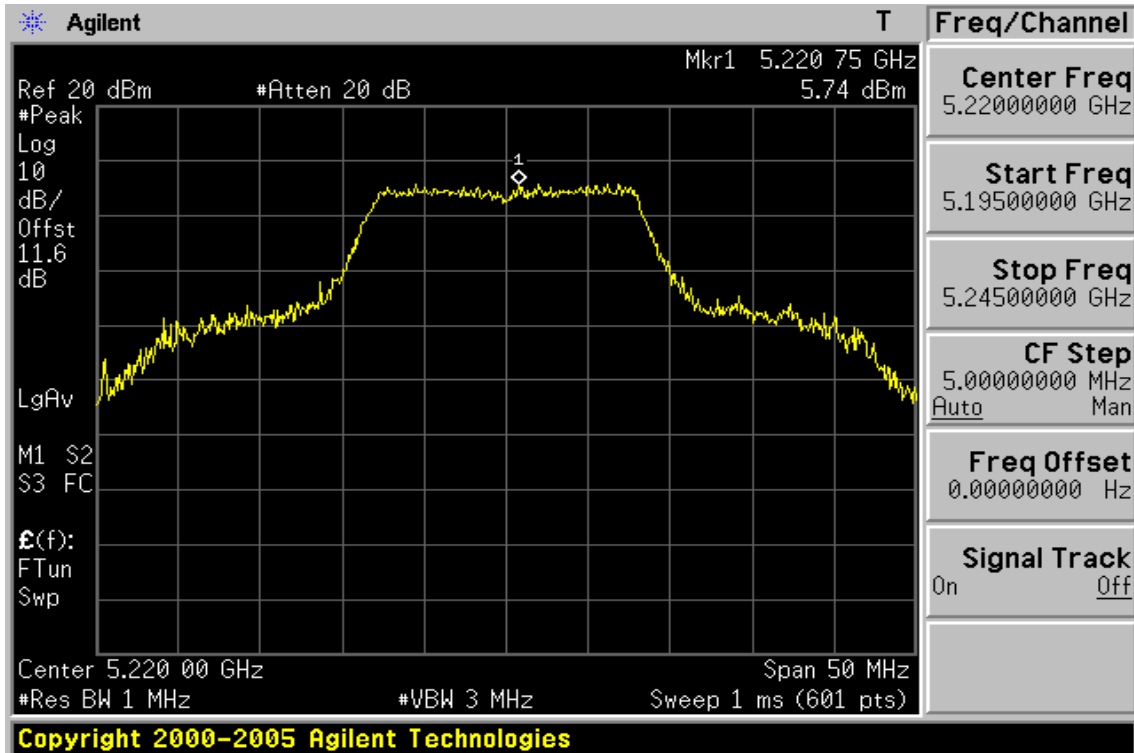


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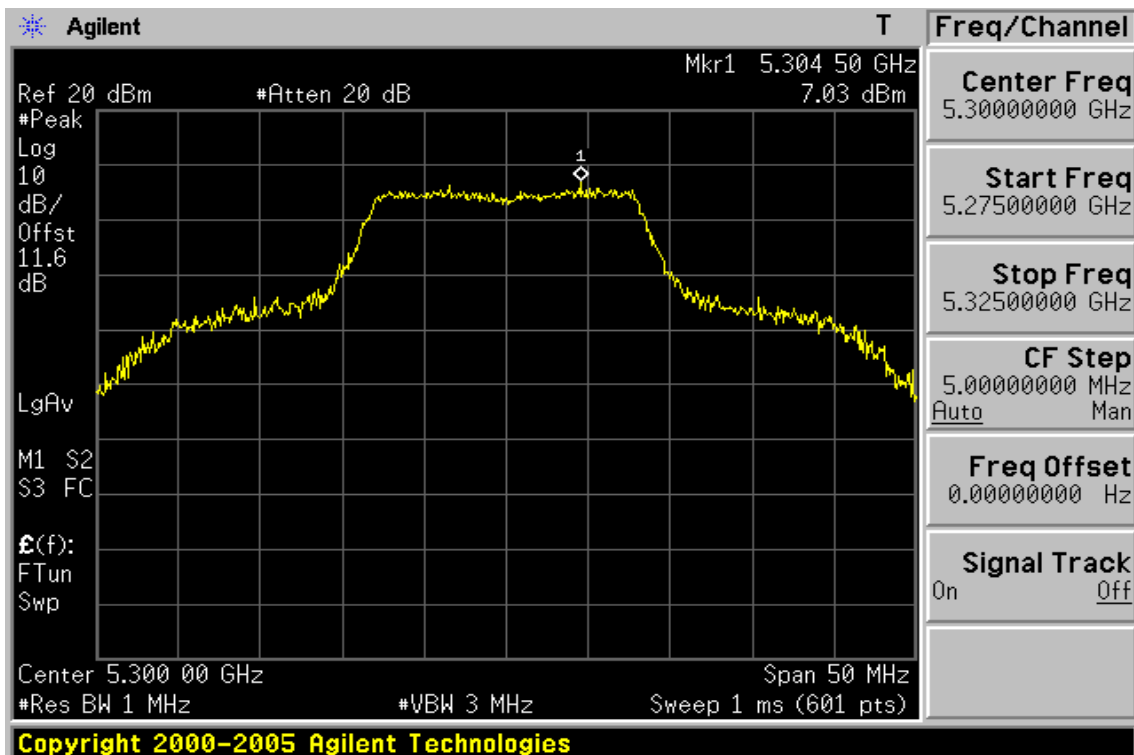
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**Modulation Type : 64-QAM, Coding Rate : 2/3**

**802.11a, 5150~5250 MHz, Peak Value Data Plot (CH Mid 5220 MHz)**



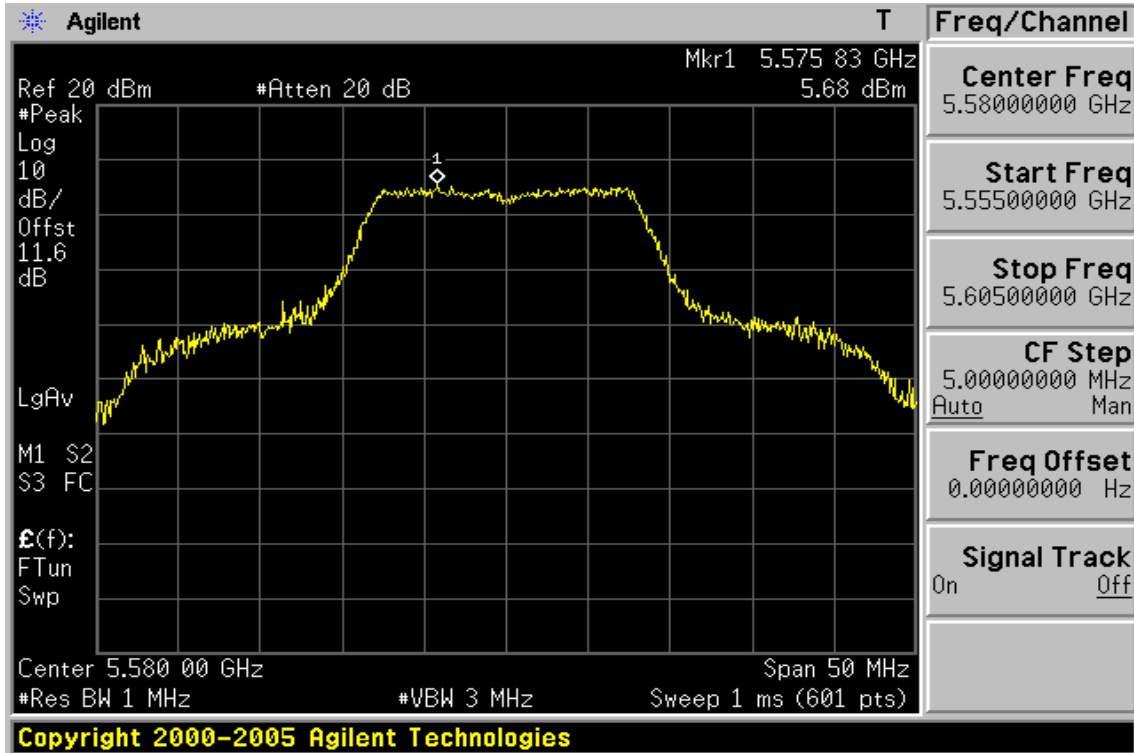
**802.11a, 5250~5350 MHz, Peak Value Data Plot (CH Mid 5300 MHz)**



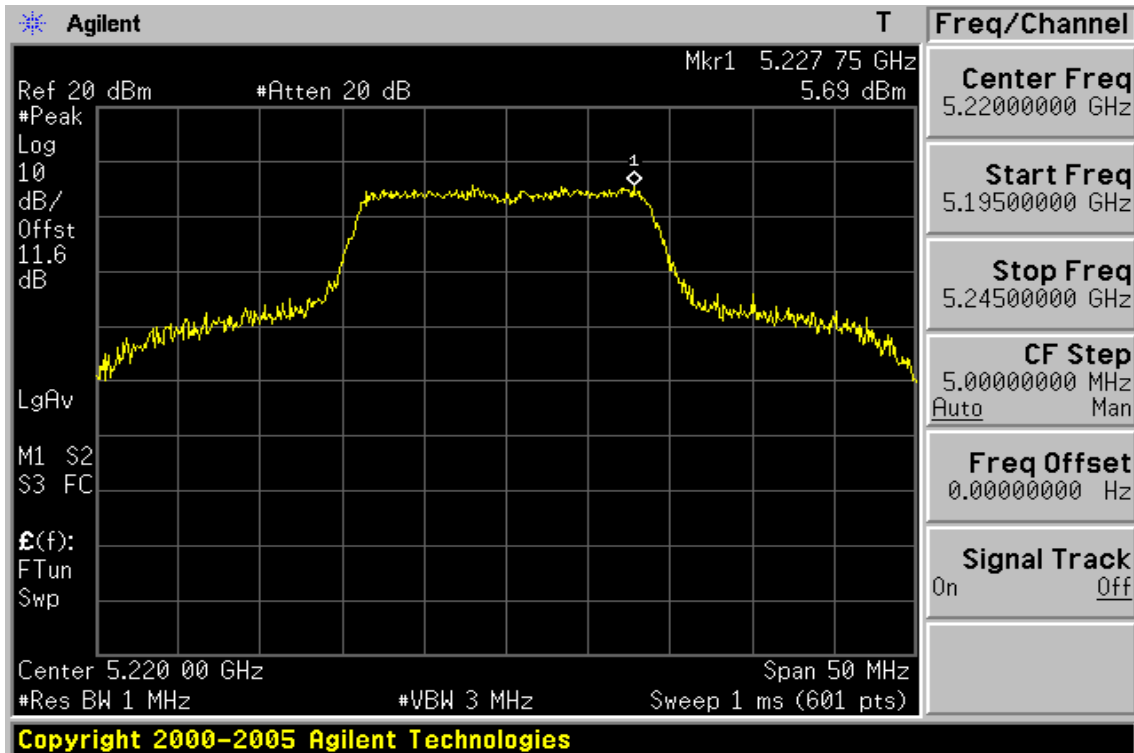
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**802.11a, 5470~5725 MHz, Peak Value Data Plot (CH Mid 5580 MHz)**



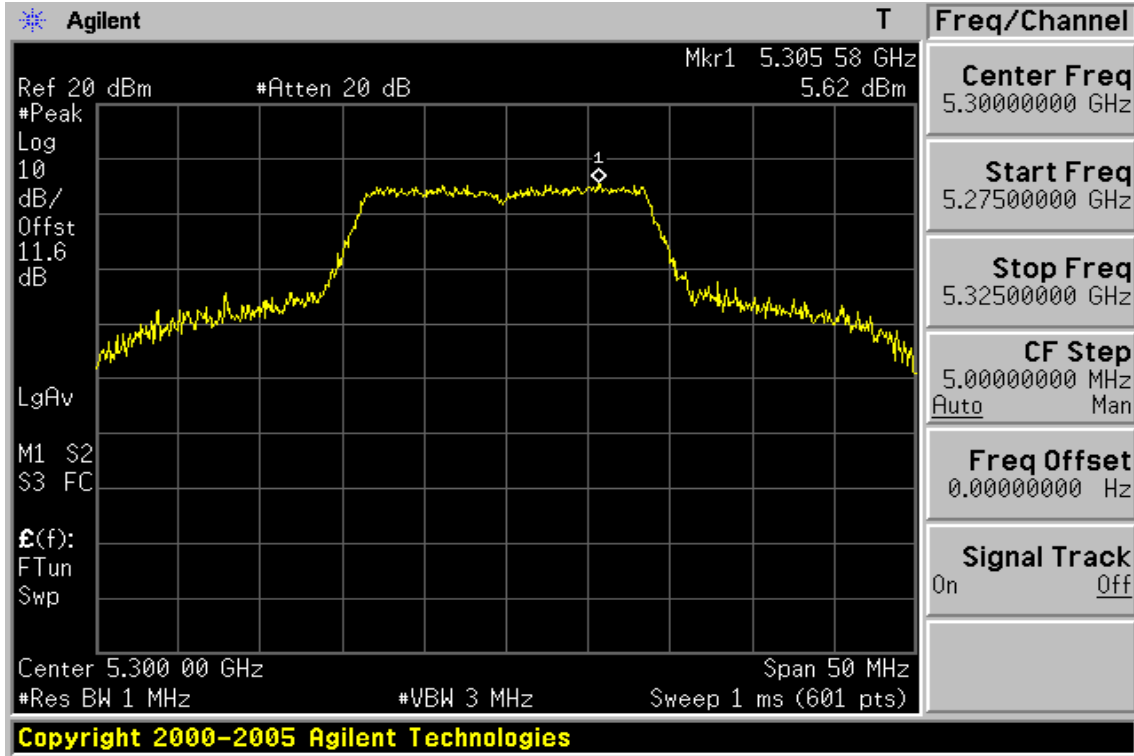
**802.11n HT20, 5150~5250 MHz, Peak Value Data Plot (CH Mid 5220 MHz)**



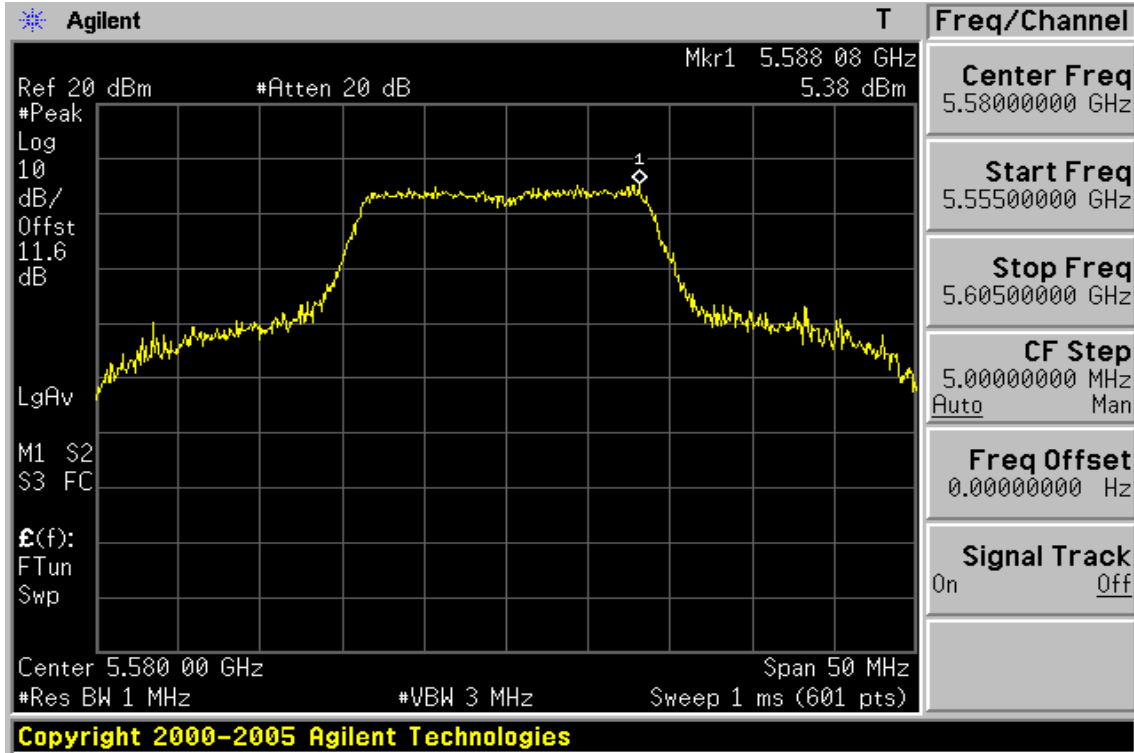
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**802.11n HT20, 5250~5350 MHz, Peak Value Data Plot (CH Mid 5300MHz)**



**802.11n HT20, 5470~5725 MHz, Peak Value Data Plot (CH Mid 5580 MHz)**



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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

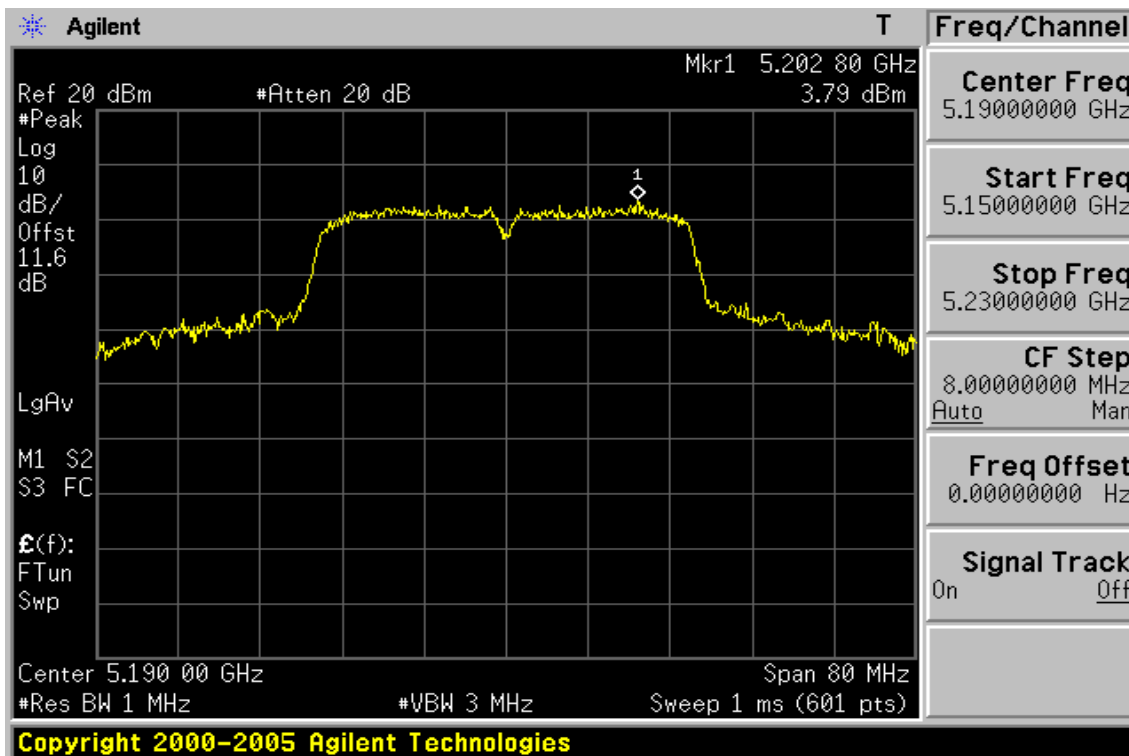
f (886-2) 2298-0488

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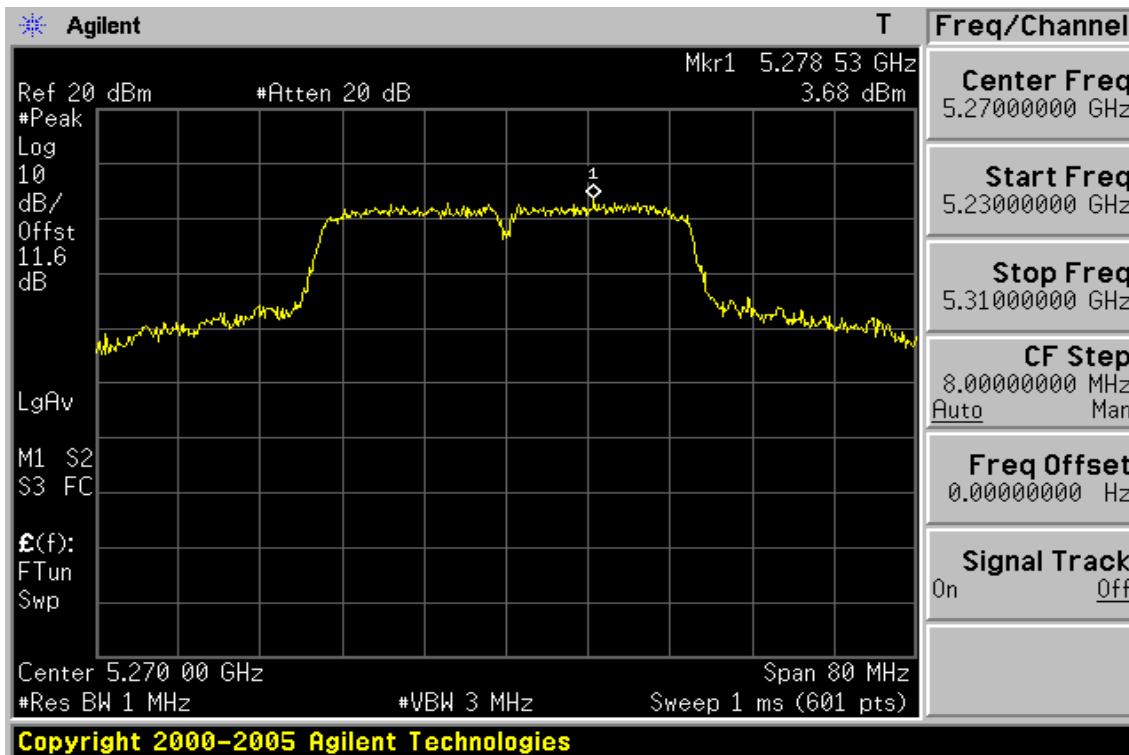
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**802.11n HT40, 5150~5250 MHz, Peak Value Data Plot (CH Low 5190 MHz)**



**802.11n HT40, 5250~5350 MHz, Peak Value Data Plot (CH Low 5270 MHz)**



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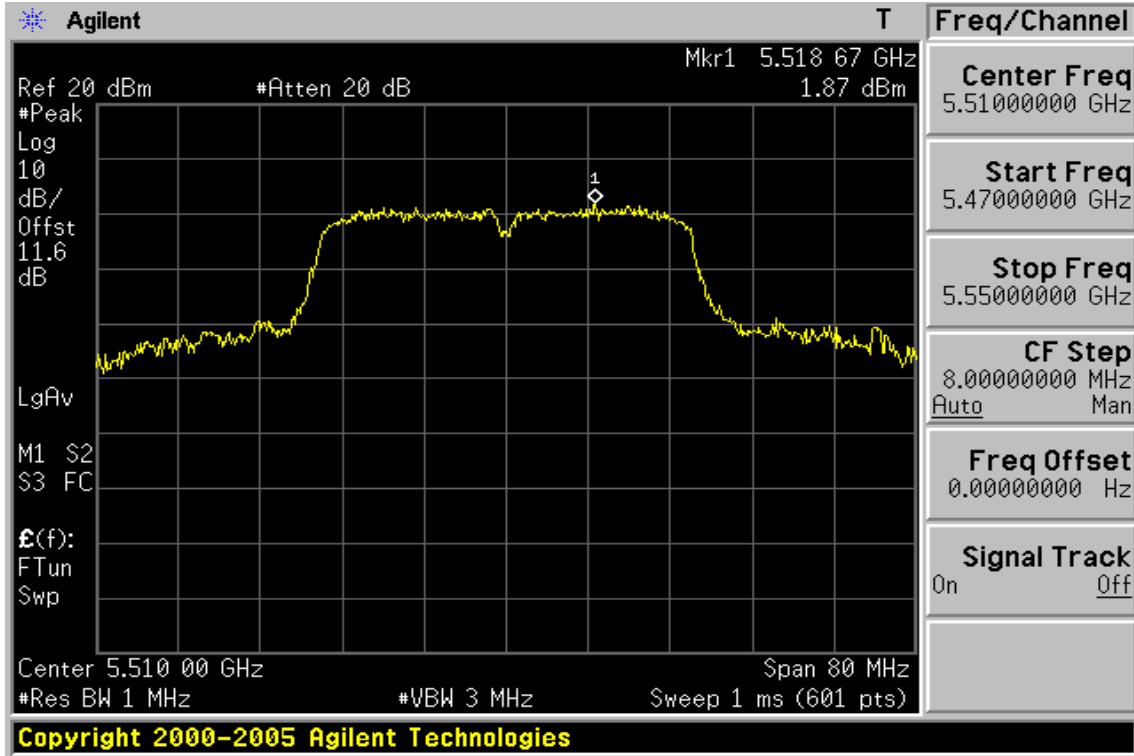
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**802.11n HT40, 5470~5725 MHz, Peak Value Data Plot (CH Low 5510MHz)**



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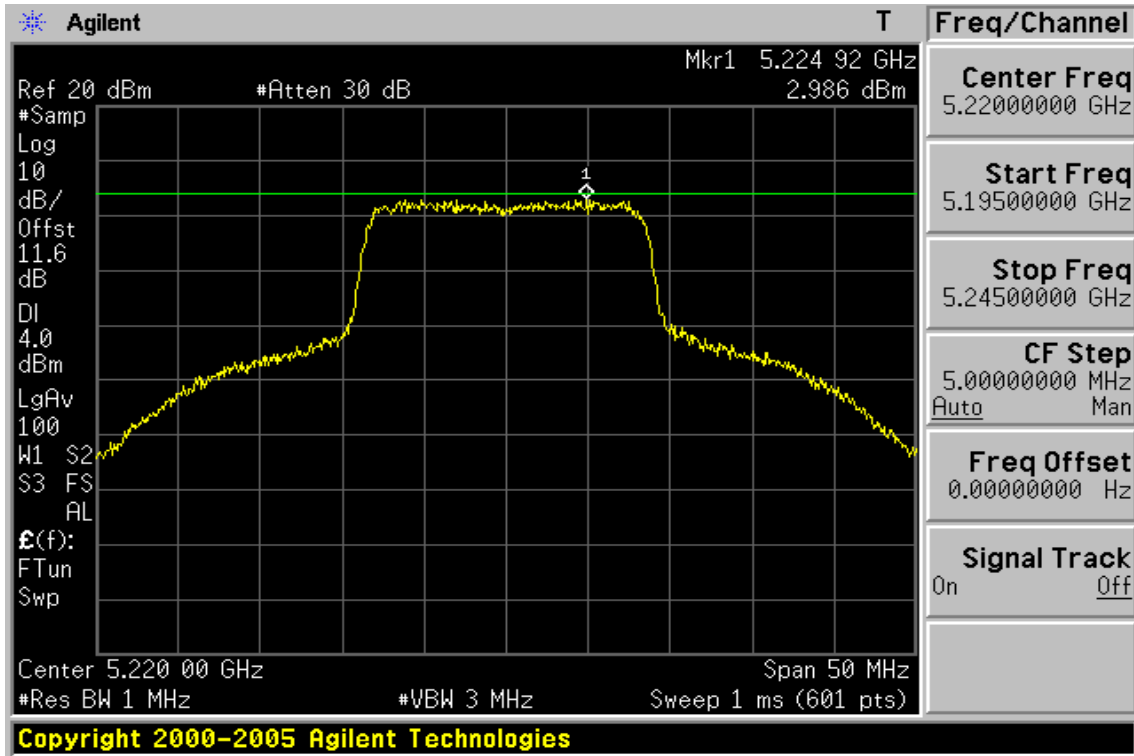
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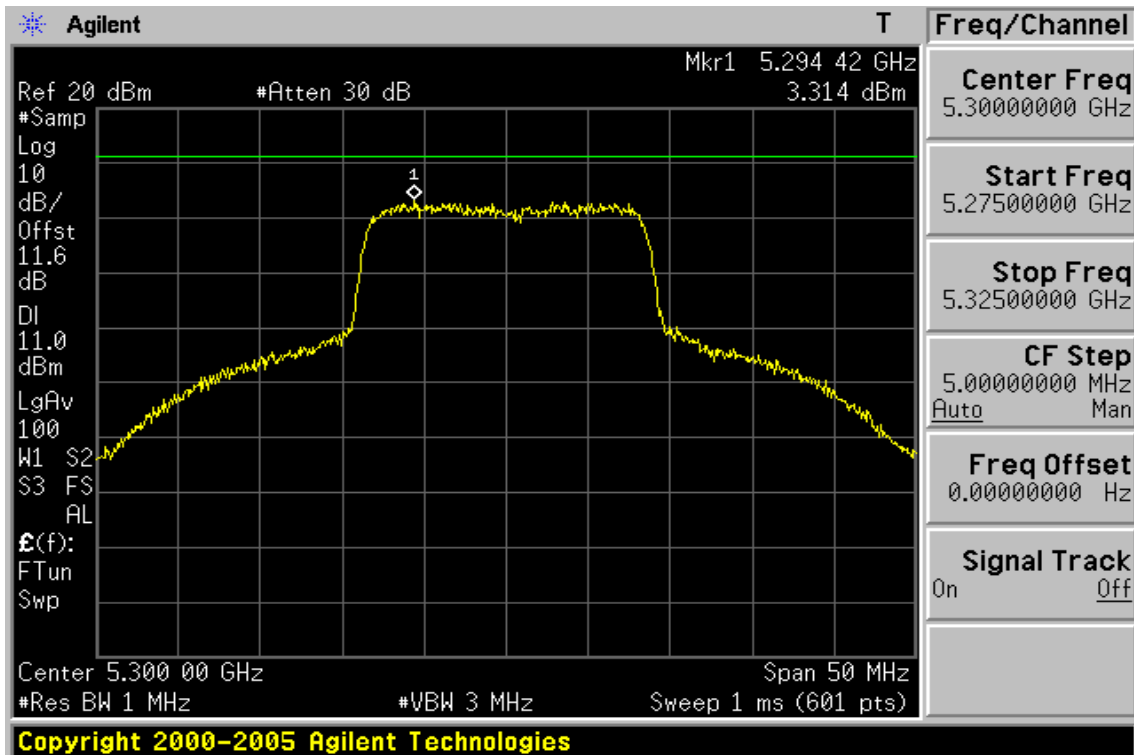
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**Modulation Type: BPSK, Coding Rate: 1/2**  
**PPSD Data Plot (CH Mid 5220 MHz)**



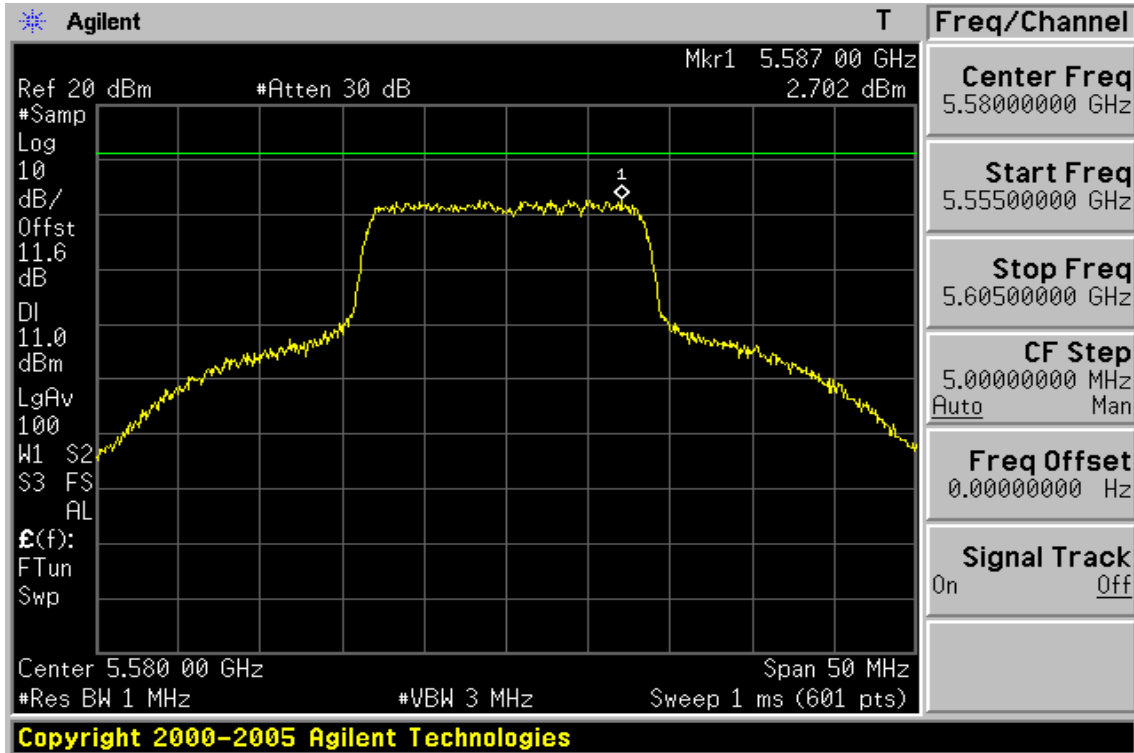
**802.11a, 5250~5350 MHz, PPSD Data Plot (CH Mid 5300 MHz)**



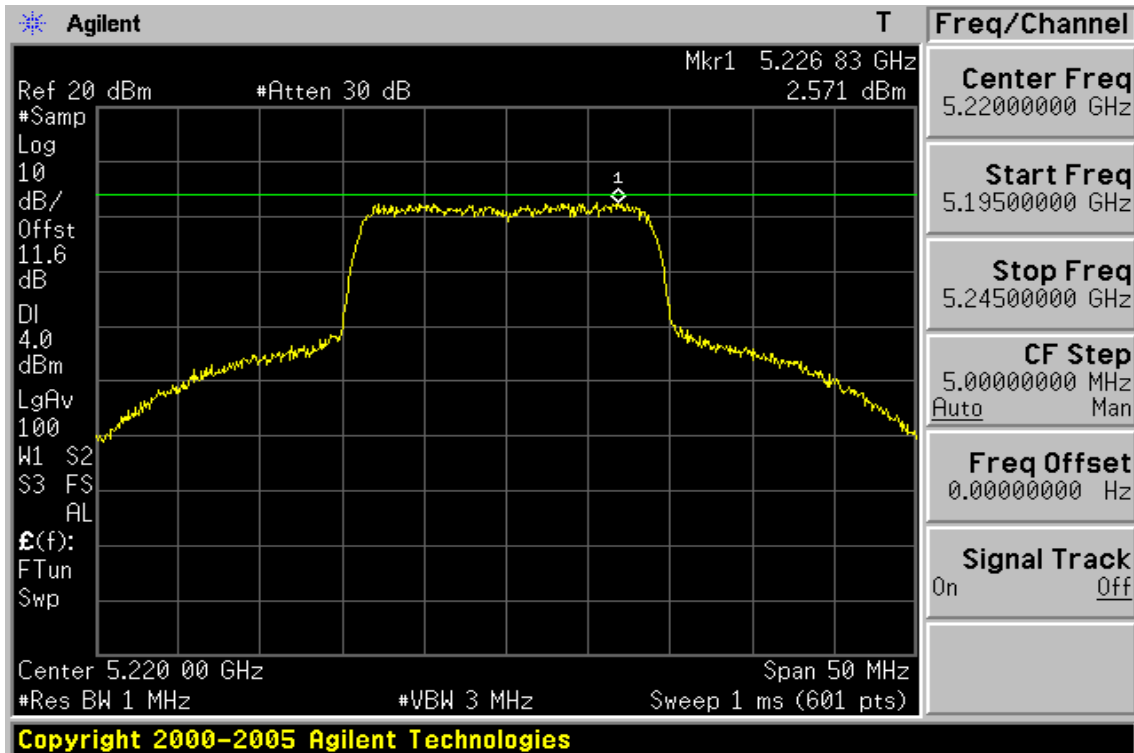
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802.11a, 5470~5725 MHz, PPSD Data Plot (CH Mid 5580 MHz)



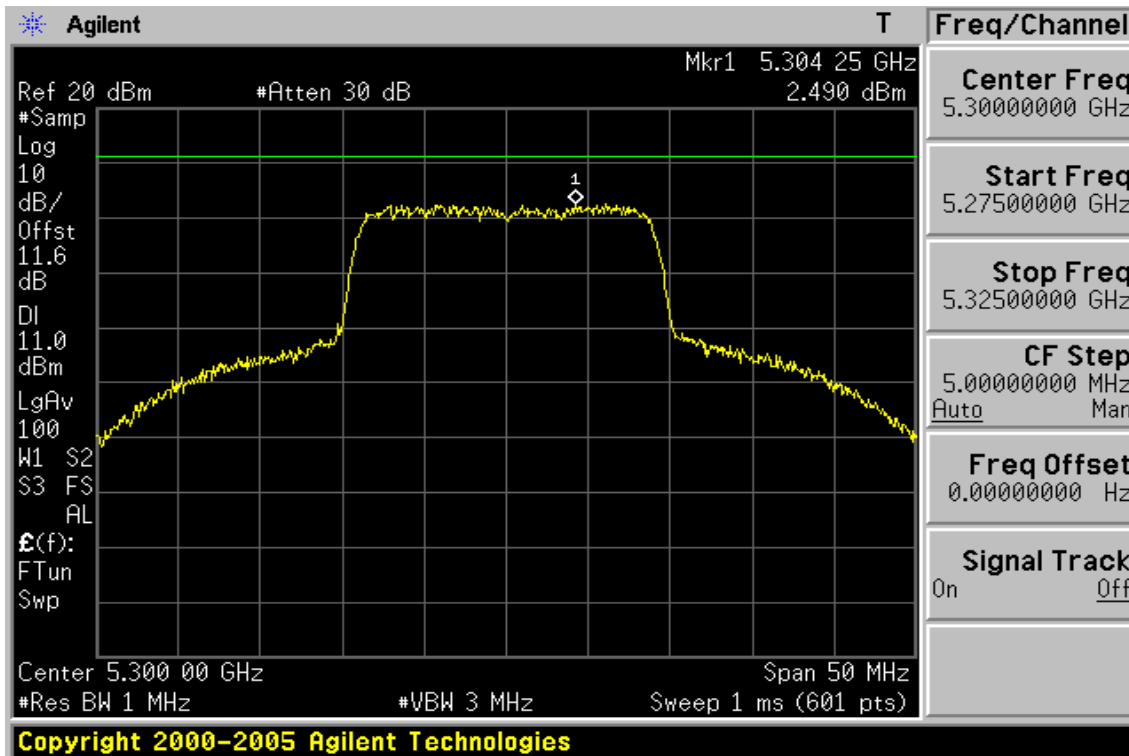
802.11n HT20, 5150~5250 MHz, PPSD Data Plot (CH Mid 5220 MHz)



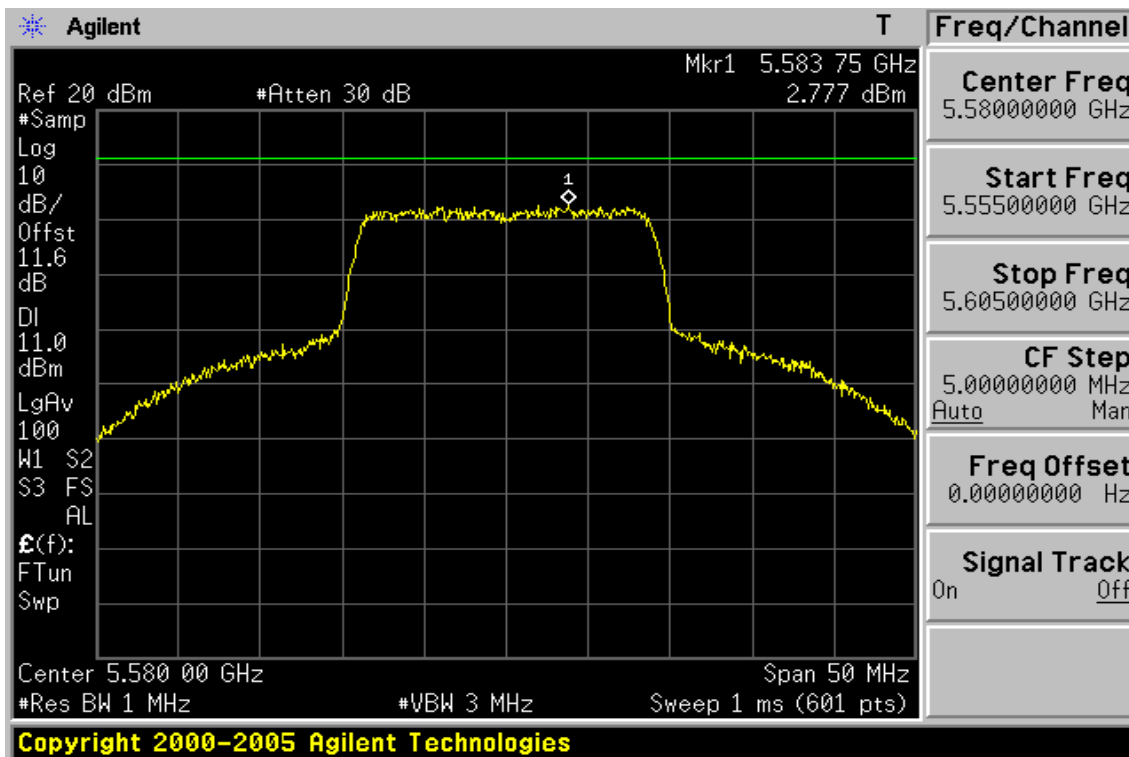
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**802.11n HT20, 5250~5350 MHz, PPSD Data Plot (CH Mid 5300 MHz)**



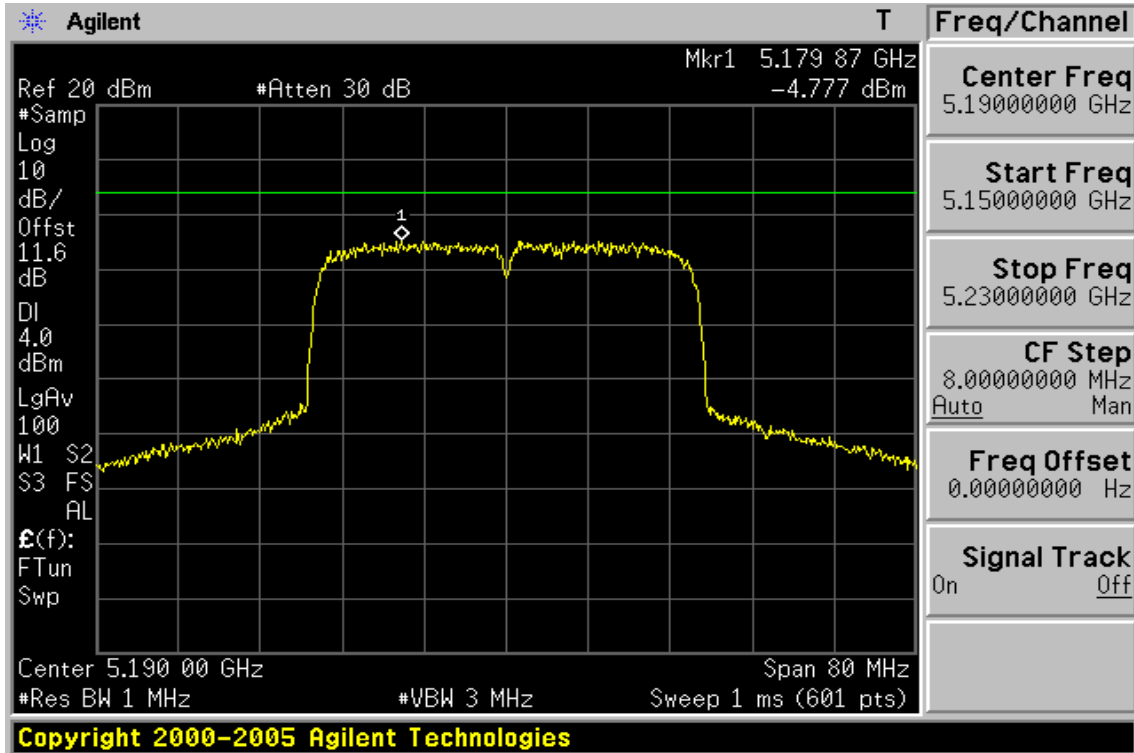
**802.11n HT20, 5470~5725 MHz, PPSD Data Plot (CH Mid 5580MHz)**



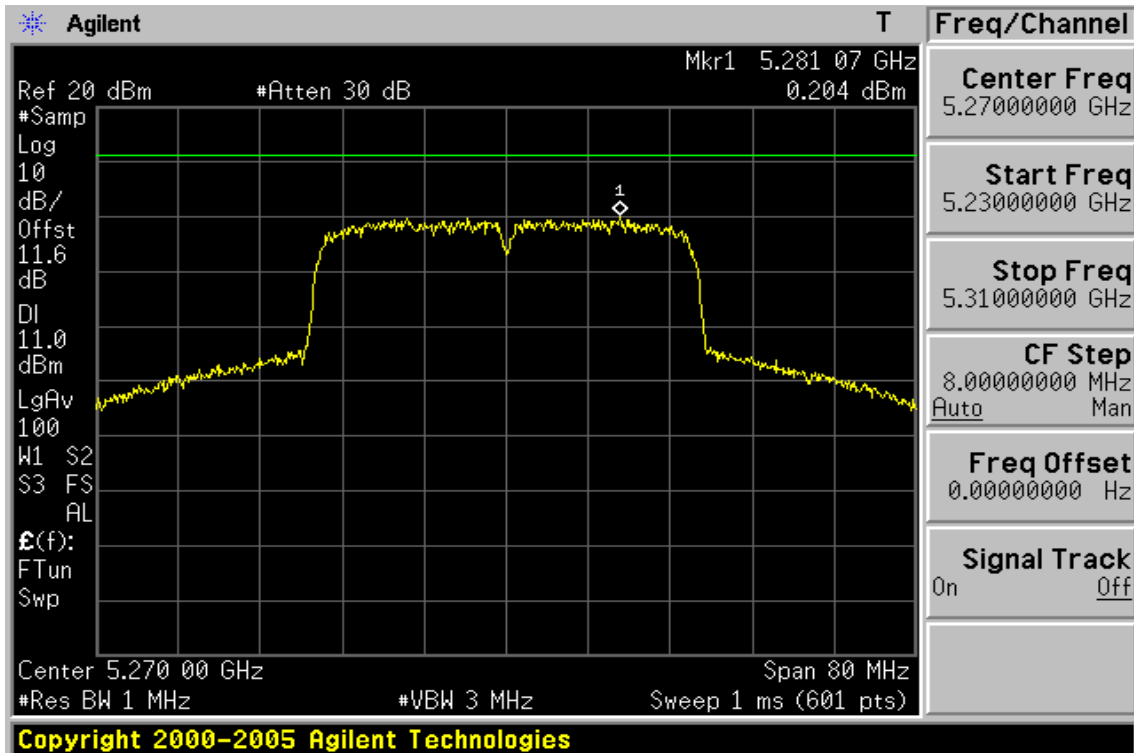
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**802.11n HT40, 5150~5250 MHz, PPSD Data Plot (CH Low 5190 MHz)**



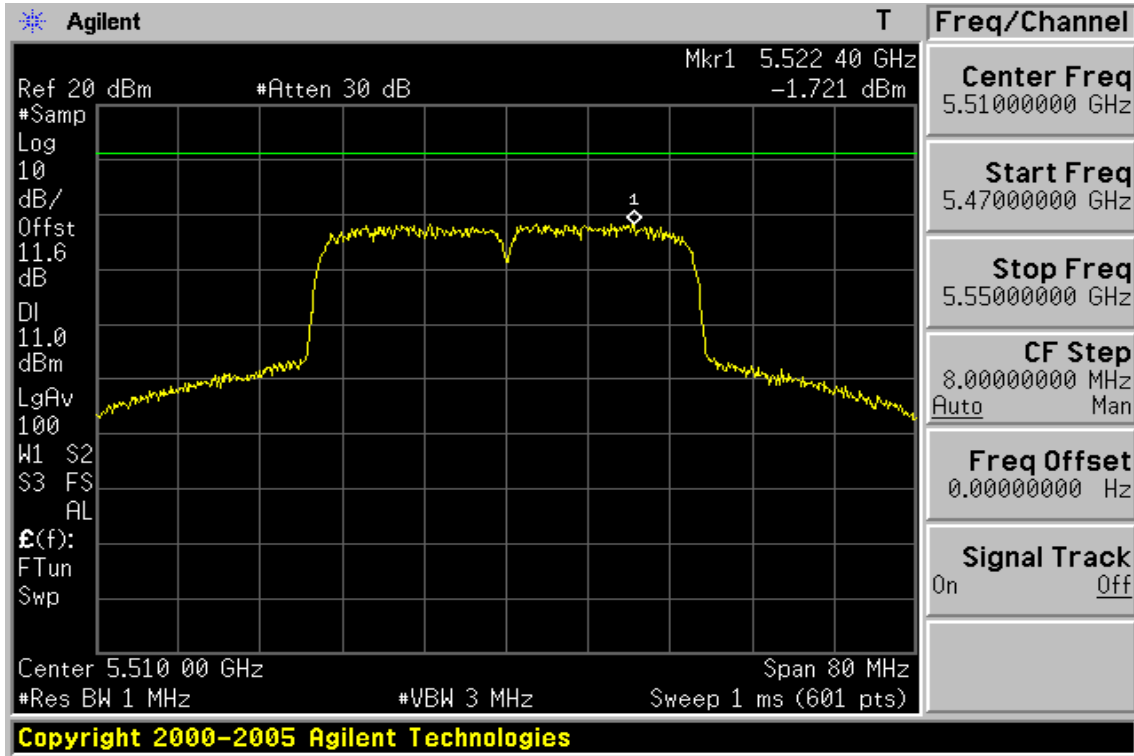
**802.11n HT40, 5250~5350 MHz, PPSD Data Plot (CH Low 5270 MHz)**



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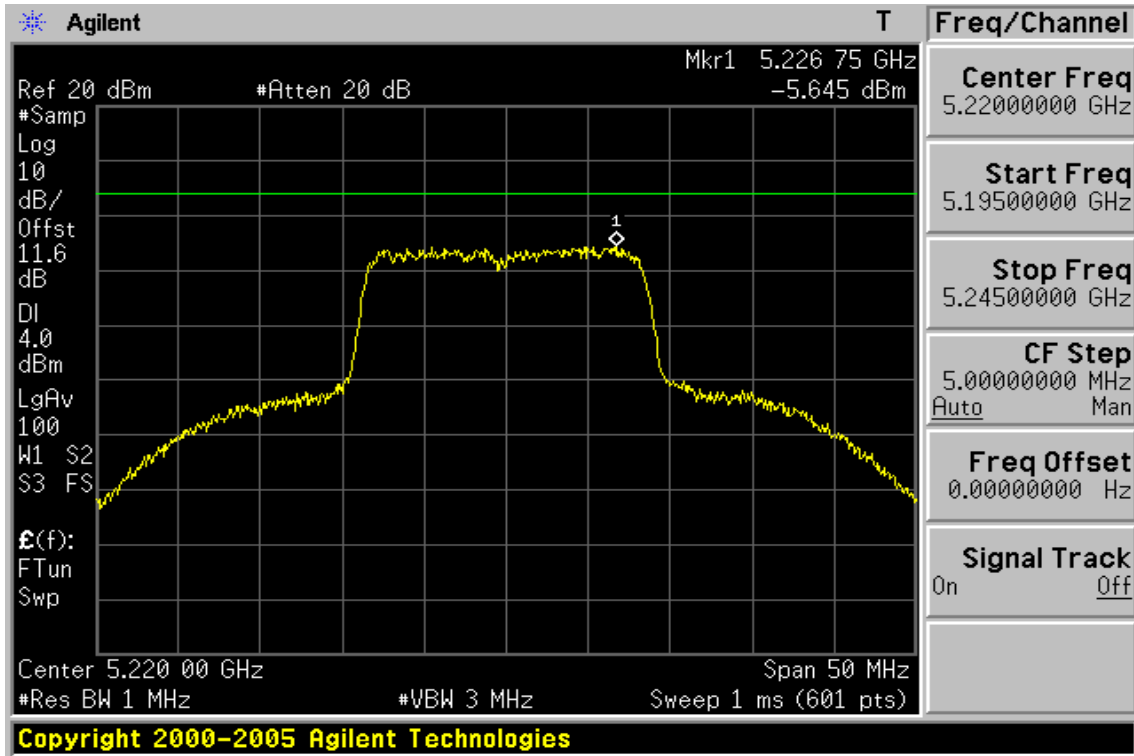
802.11n HT40, 5470~5725 MHz, PPSD Data Plot (CH Low 5510 MHz)



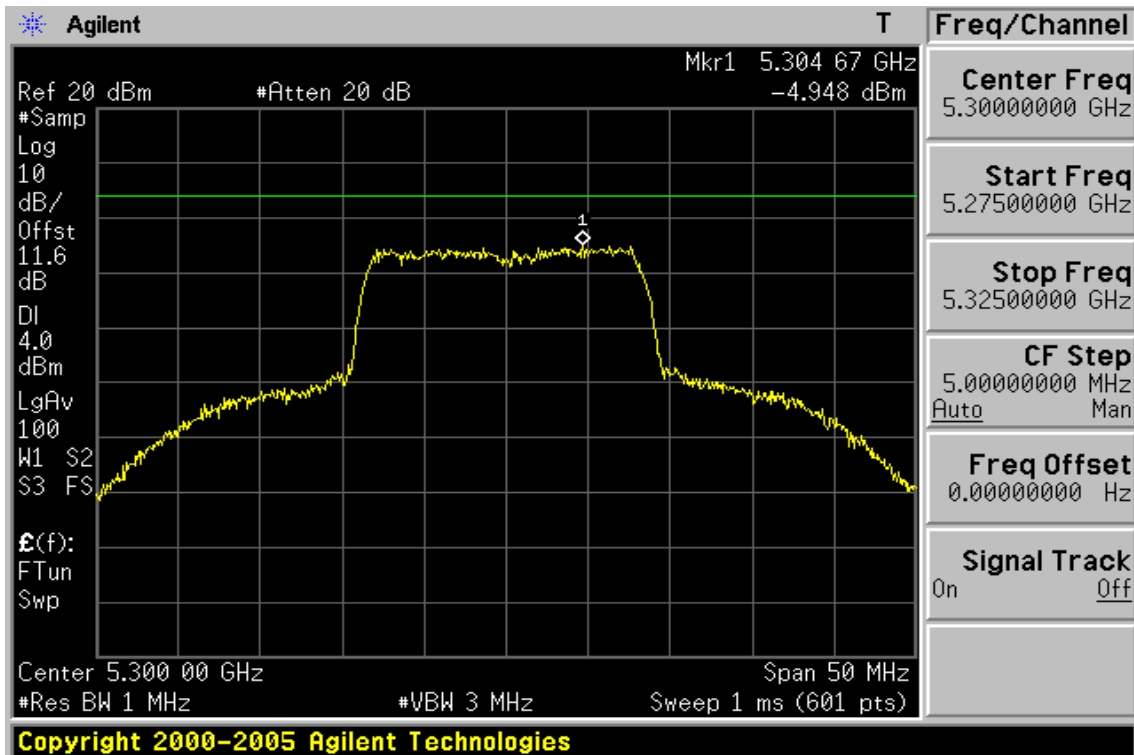
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**Modulation Type : QPSK, Coding Rate : 1/2**  
**PPSD Data Plot (CH Mid 5220 MHz)**



**802.11a, 5250~5350 MHz, PPSD Data Plot (CH Mid 5300 MHz)**

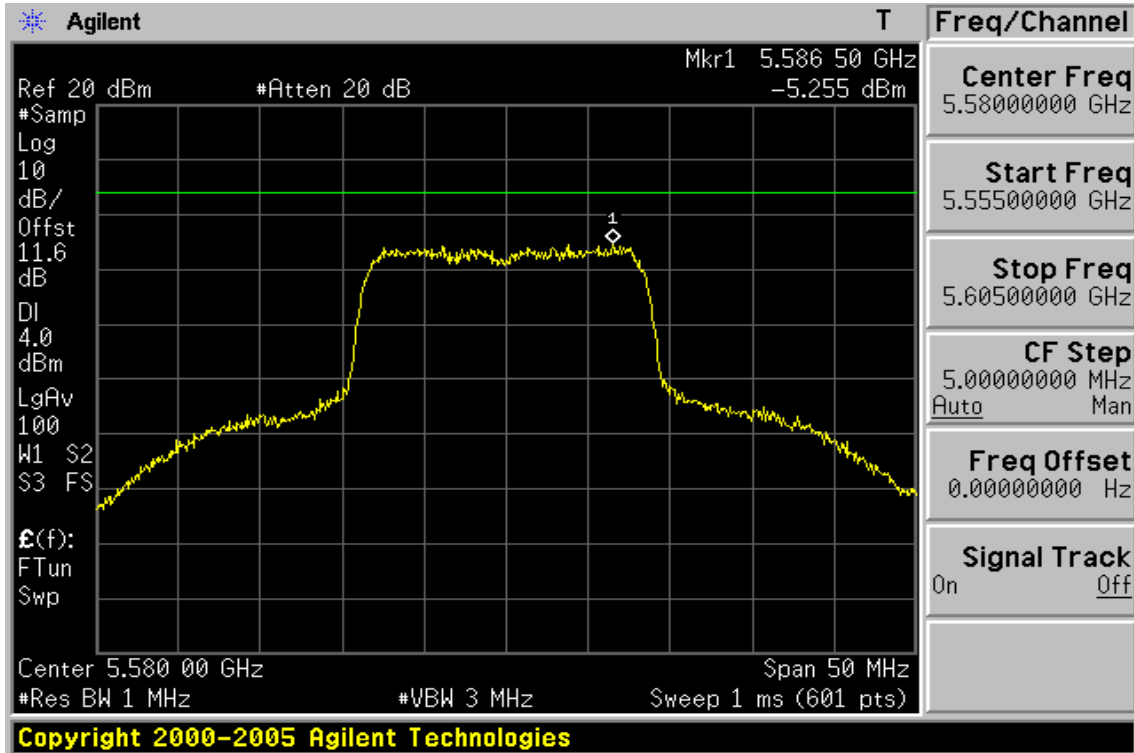


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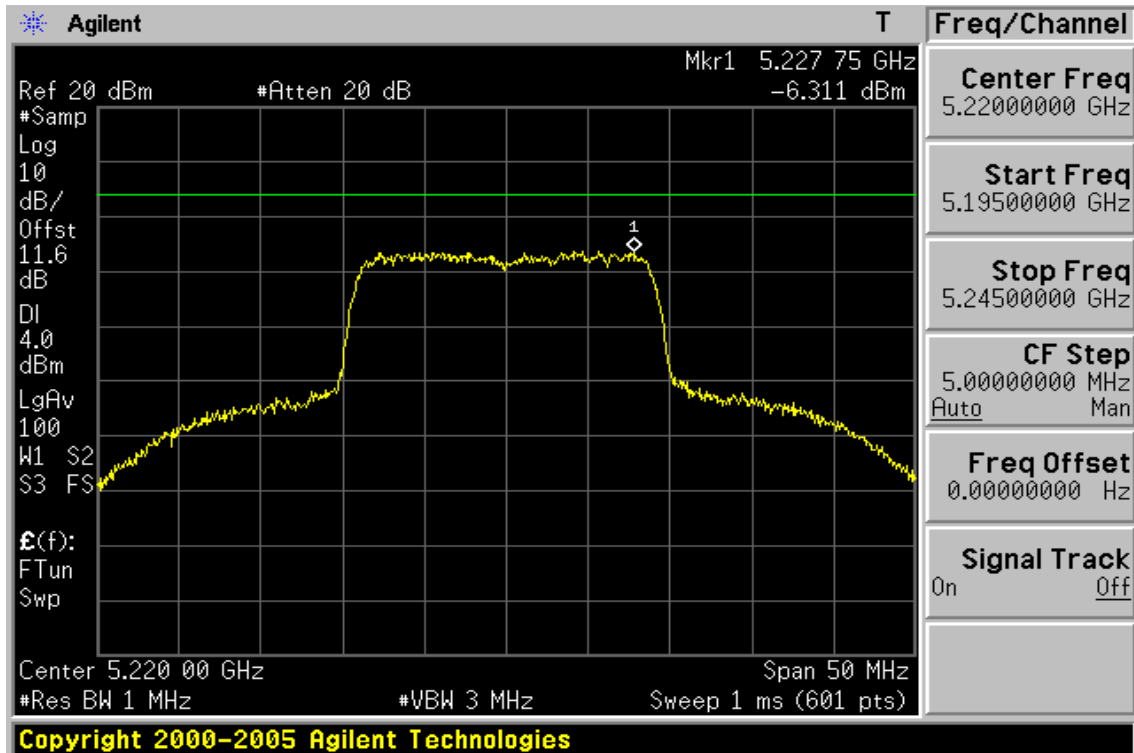
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802.11a, 5470~5725 MHz, PPSD Data Plot (CH Mid 5580 MHz)



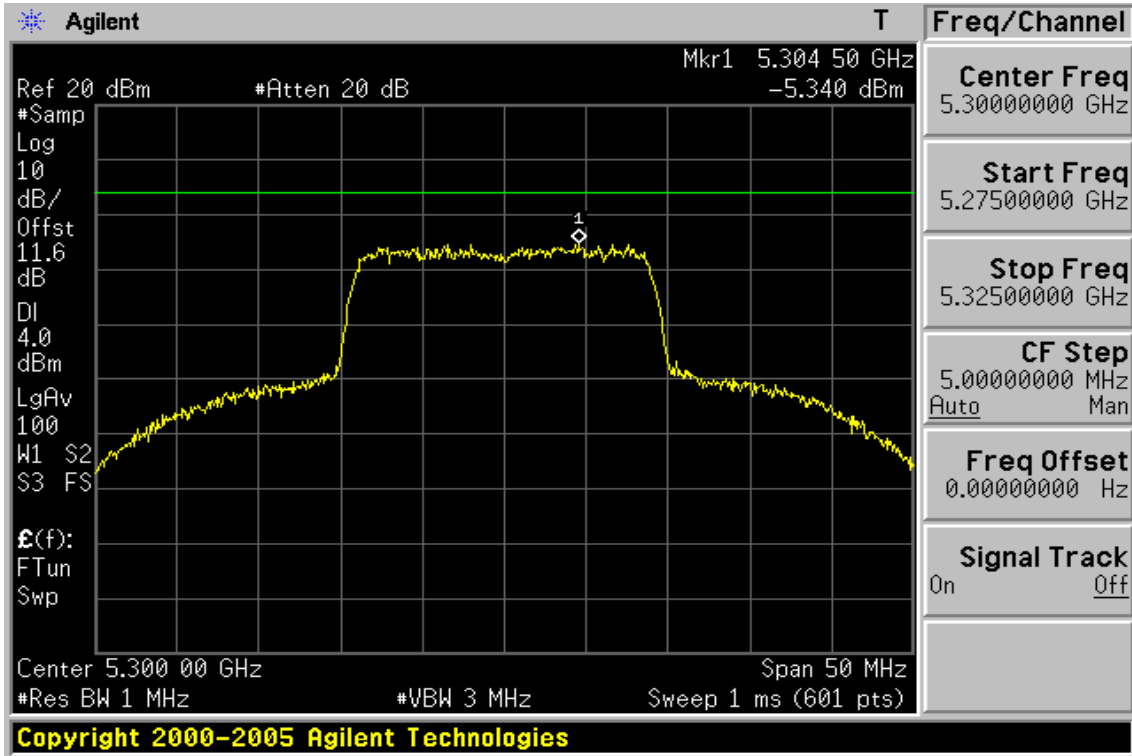
802.11n HT20, 5150~5250 MHz, PPSD Data Plot (CH Mid 5220 MHz)



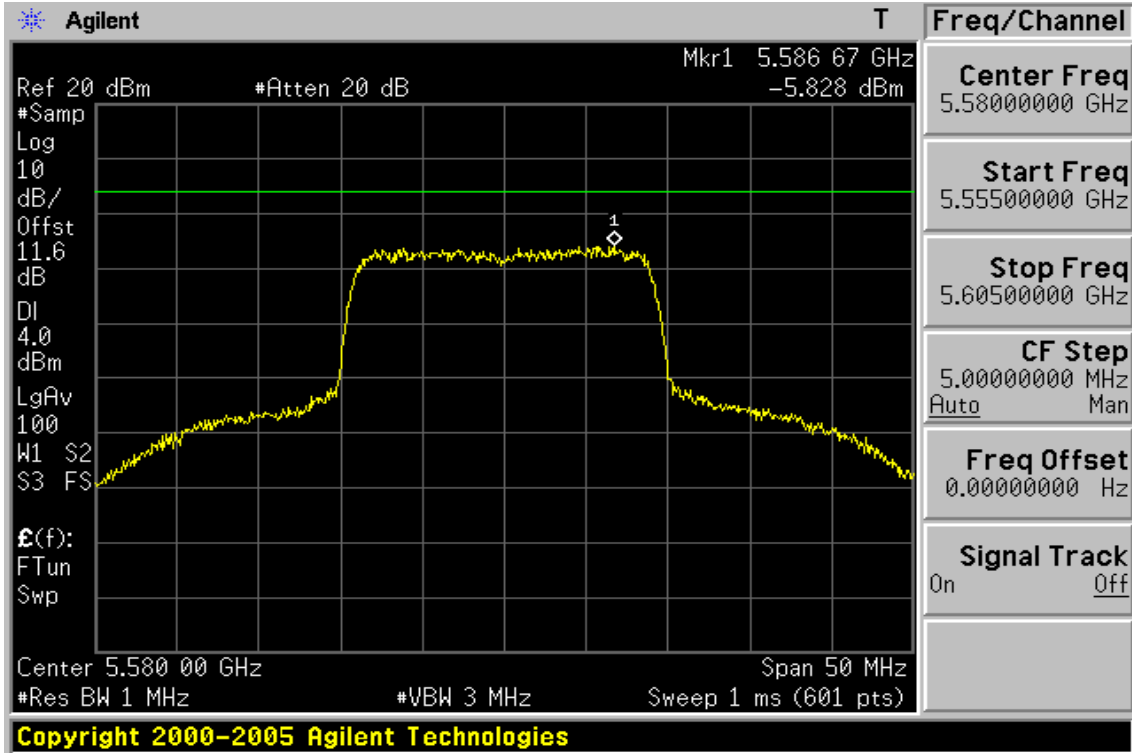
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**802.11n HT20, 5250~5350 MHz, PPSD Data Plot (CH Mid 5300 MHz)**



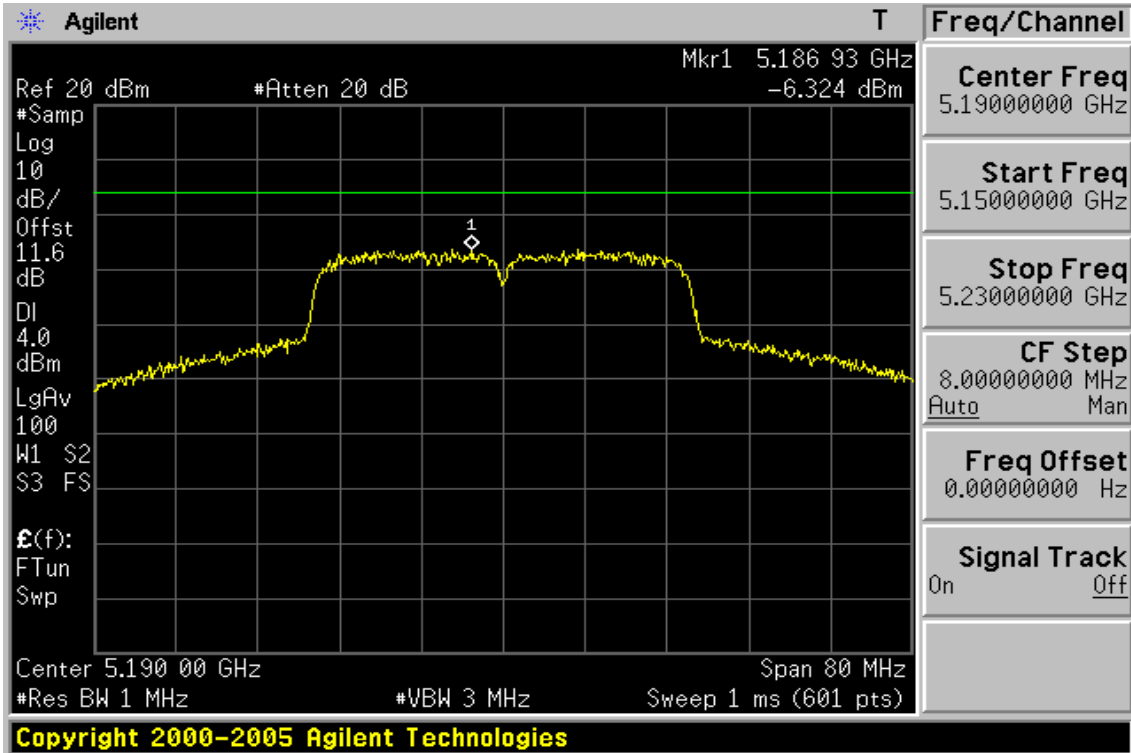
**802.11n HT20, 5470~5725 MHz, PPSD Data Plot (CH Mid 5580MHz)**



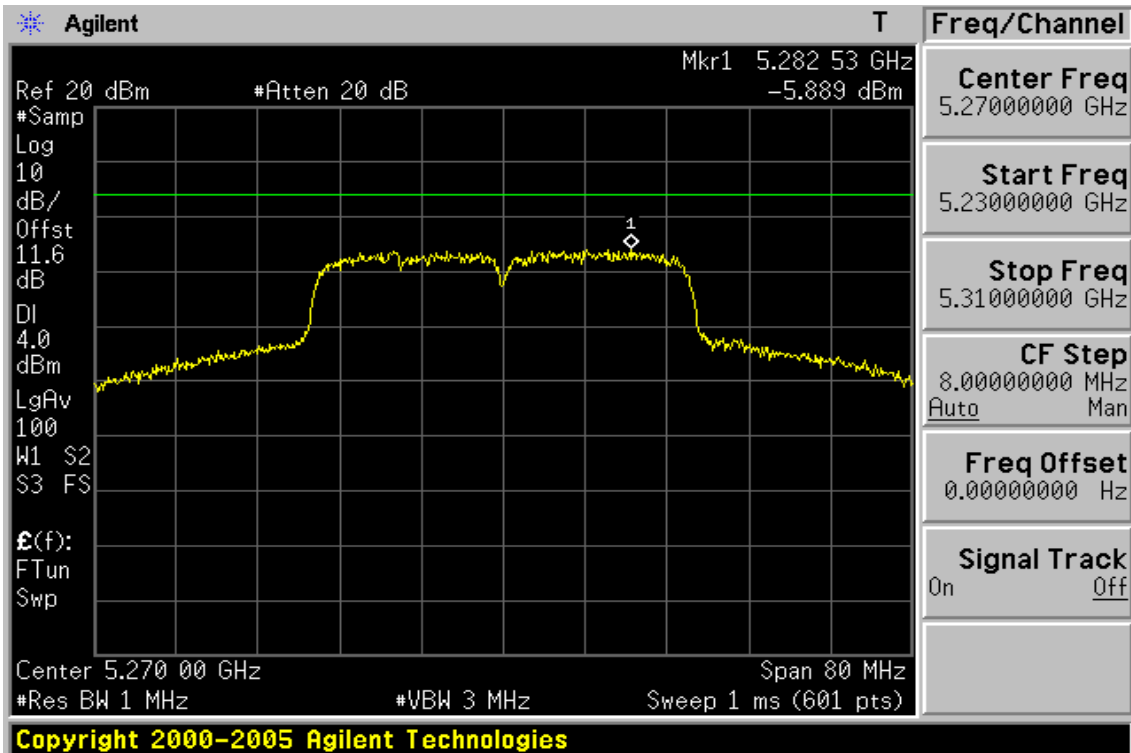
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**802.11n HT40, 5150~5250 MHz, PPSD Data Plot (CH Low 5190 MHz)**



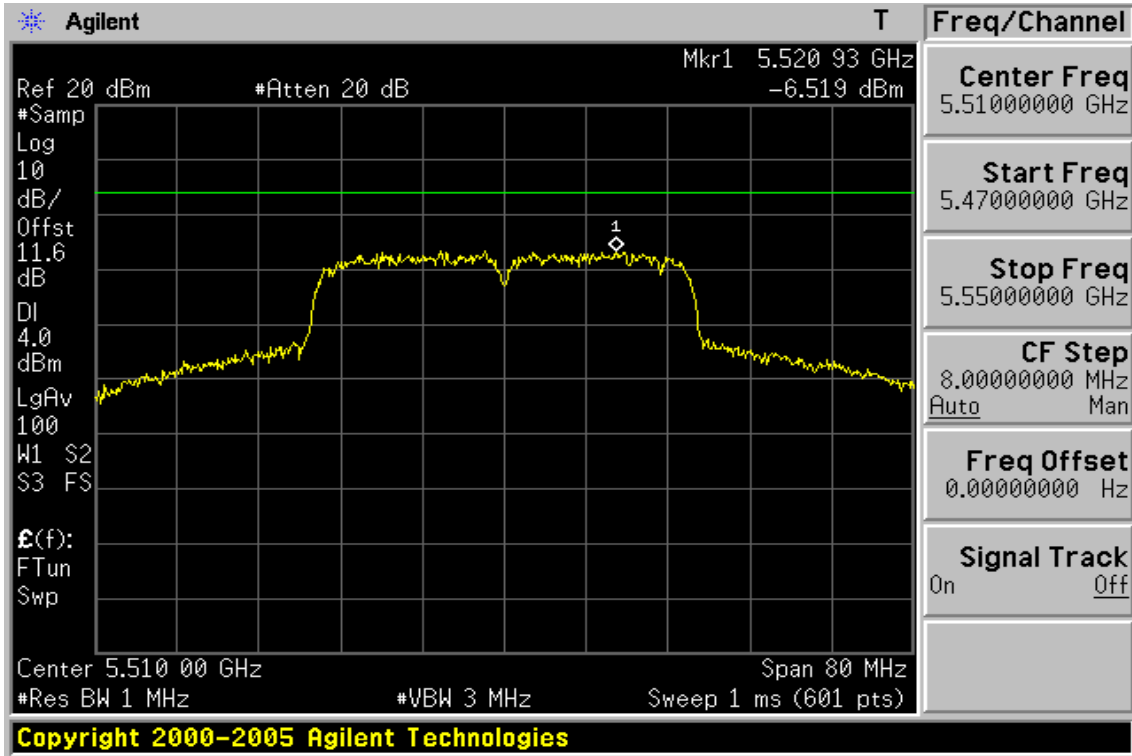
**802.11n HT40, 5250~5350 MHz, PPSD Data Plot (CH Low 5270 MHz)**



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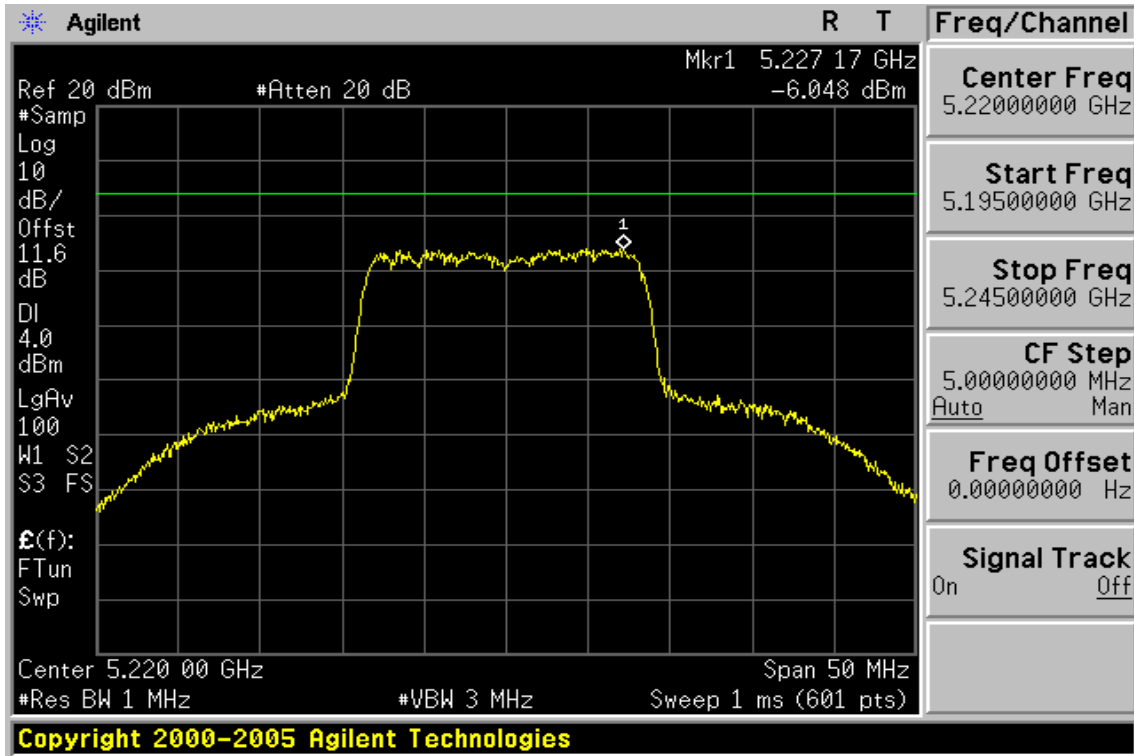
802.11n HT40, 5470~5725 MHz, PPSD Data Plot (CH Low 5510 MHz)



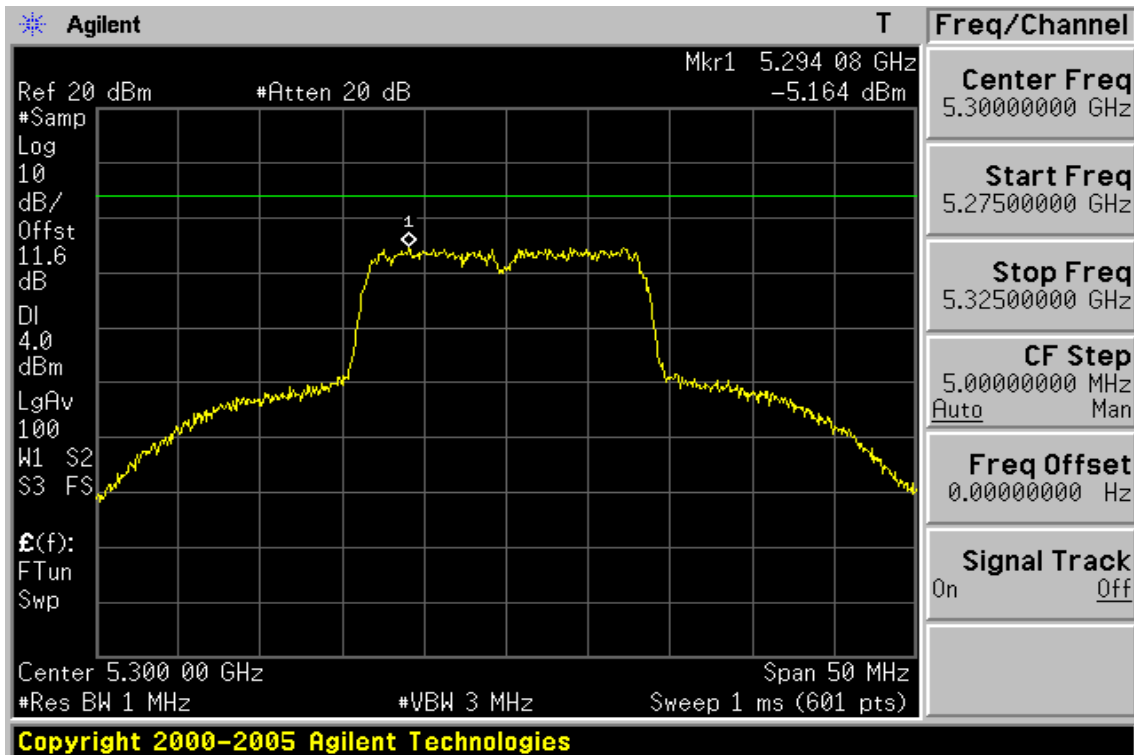
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**Modulation Type : 16-QAM, Coding Rate : 1/2**  
**PPSD Data Plot (CH Mid 5220 MHz)**



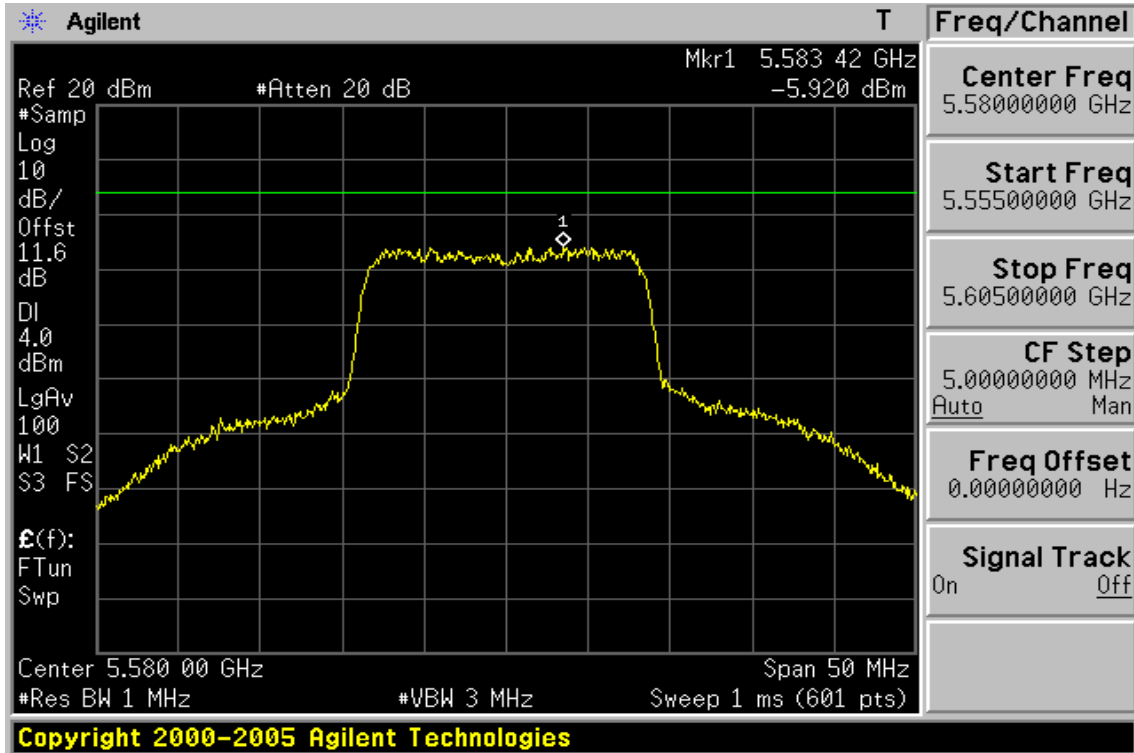
**802.11a, 5250~5350 MHz, PPSD Data Plot (CH Mid 5300 MHz)**



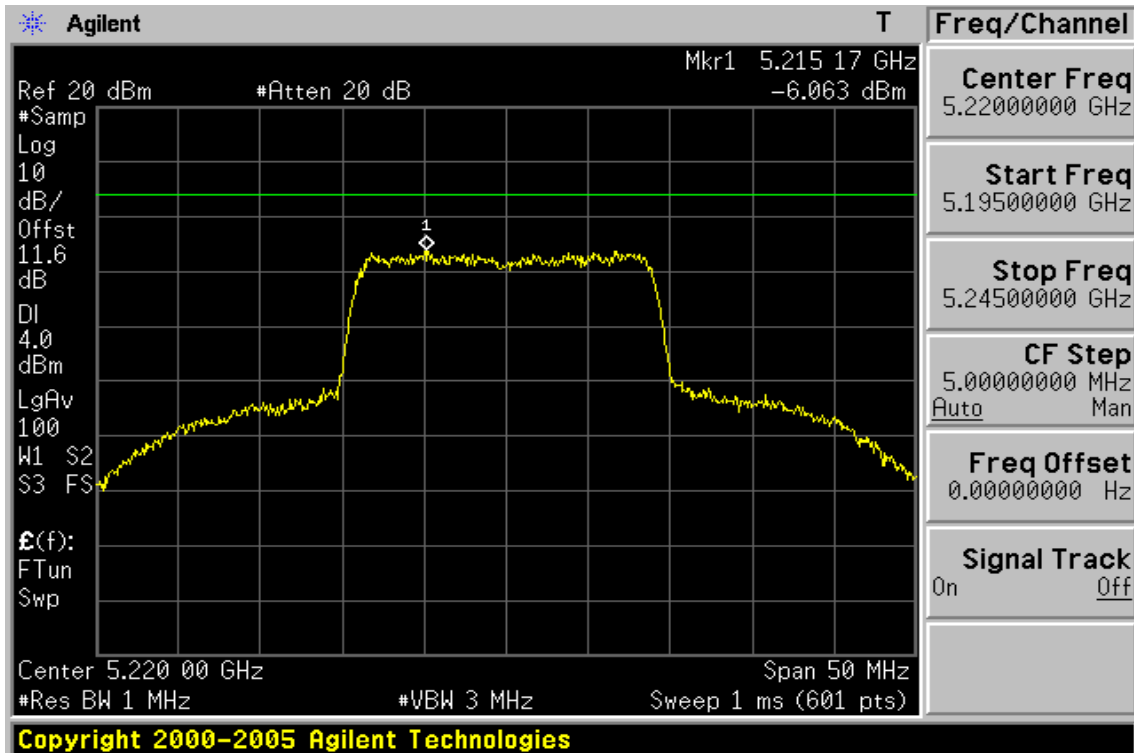
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802.11a, 5470~5725 MHz, PPSD Data Plot (CH Mid 5580 MHz)



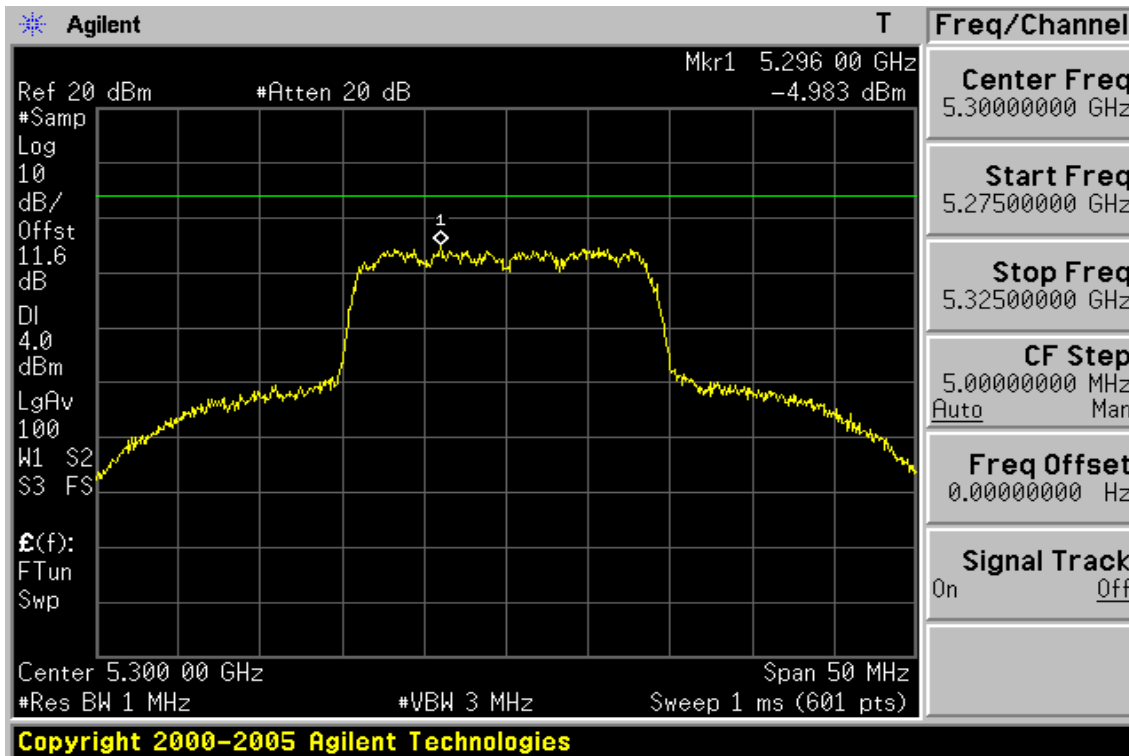
802.11n HT20, 5150~5250 MHz, PPSD Data Plot (CH Mid 5220 MHz)



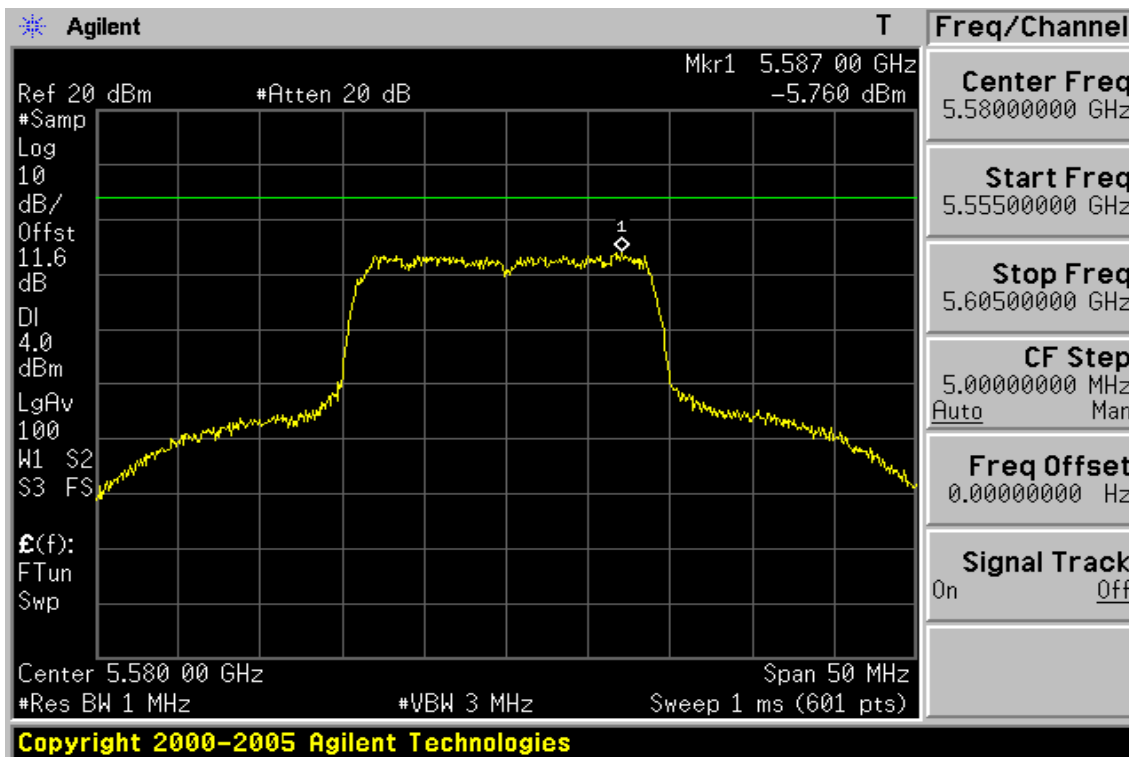
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**802.11n HT20, 5250~5350 MHz, PPSD Data Plot (CH Mid 5300 MHz)**



**802.11n HT20, 5470~5725 MHz, PPSD Data Plot (CH Mid 5580MHz)**



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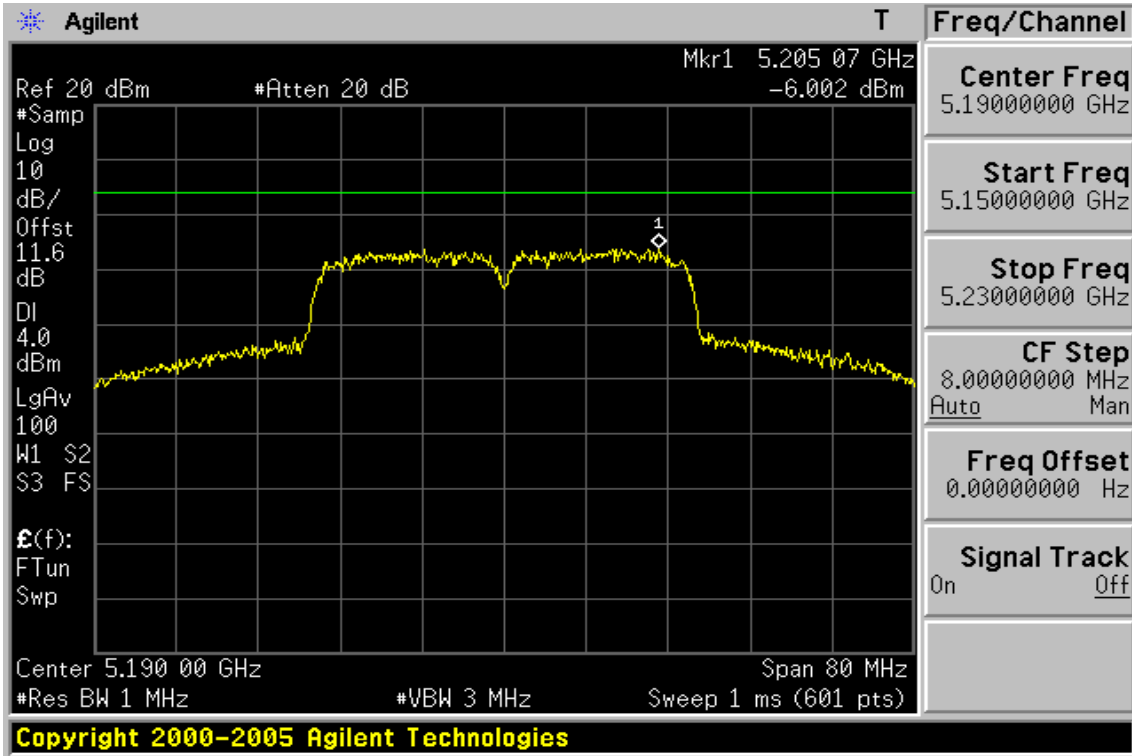
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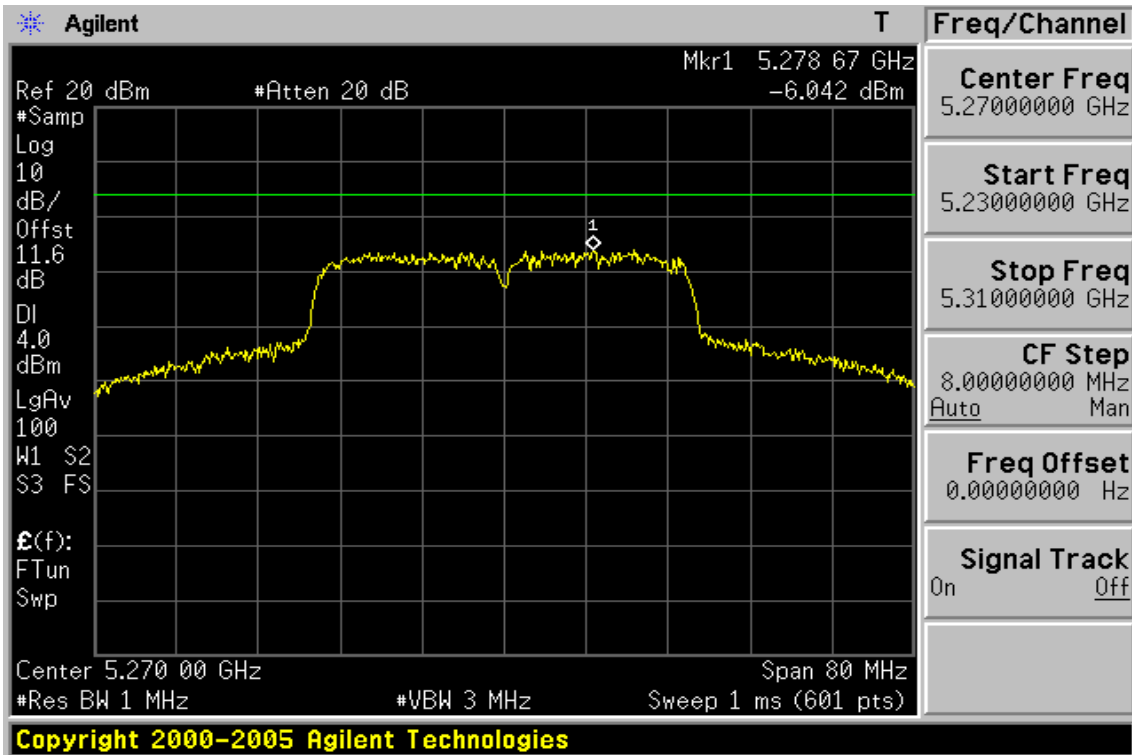
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**802.11n HT40, 5150~5250 MHz, PPSD Data Plot (CH Low 5190 MHz)**



**802.11n HT40, 5250~5350 MHz, PPSD Data Plot (CH Low 5270 MHz)**

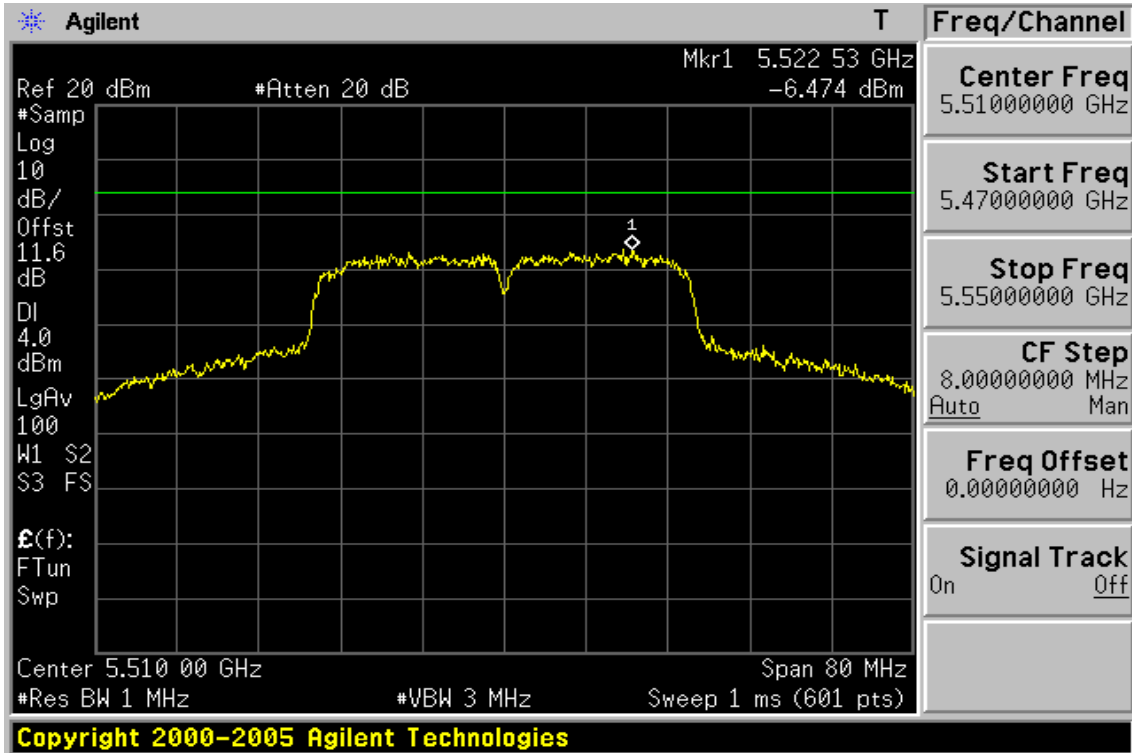


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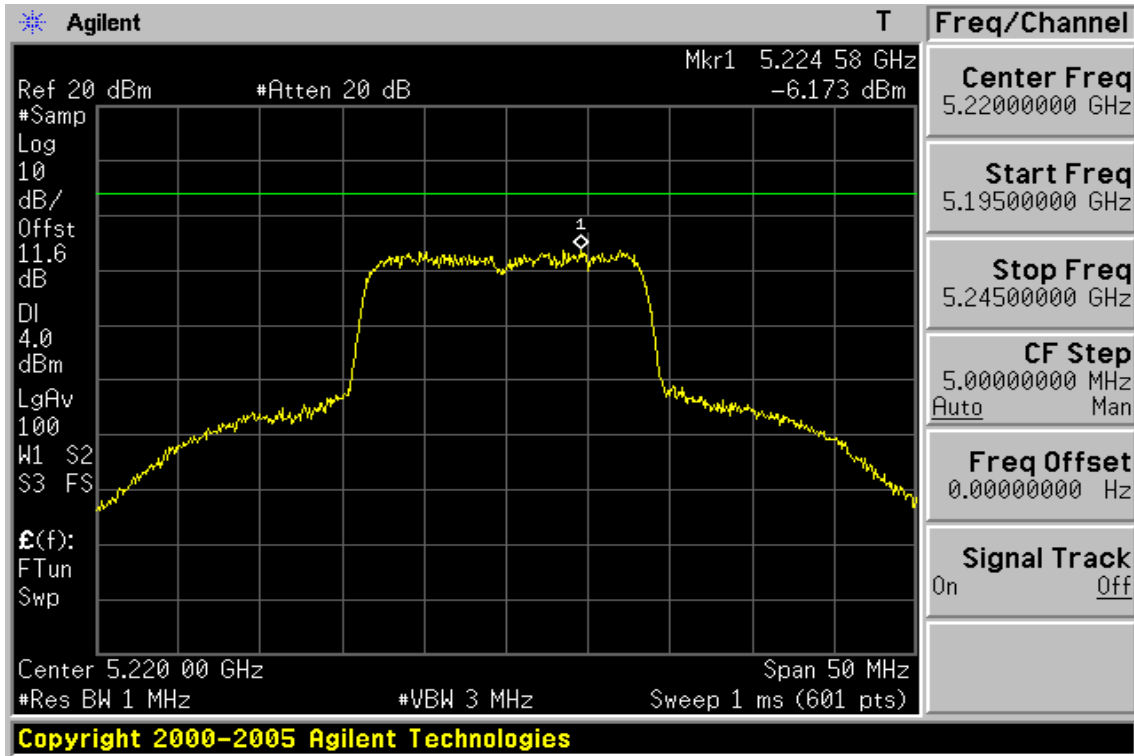
802.11n HT40, 5470~5725 MHz, PPSD Data Plot (CH Low 5510 MHz)



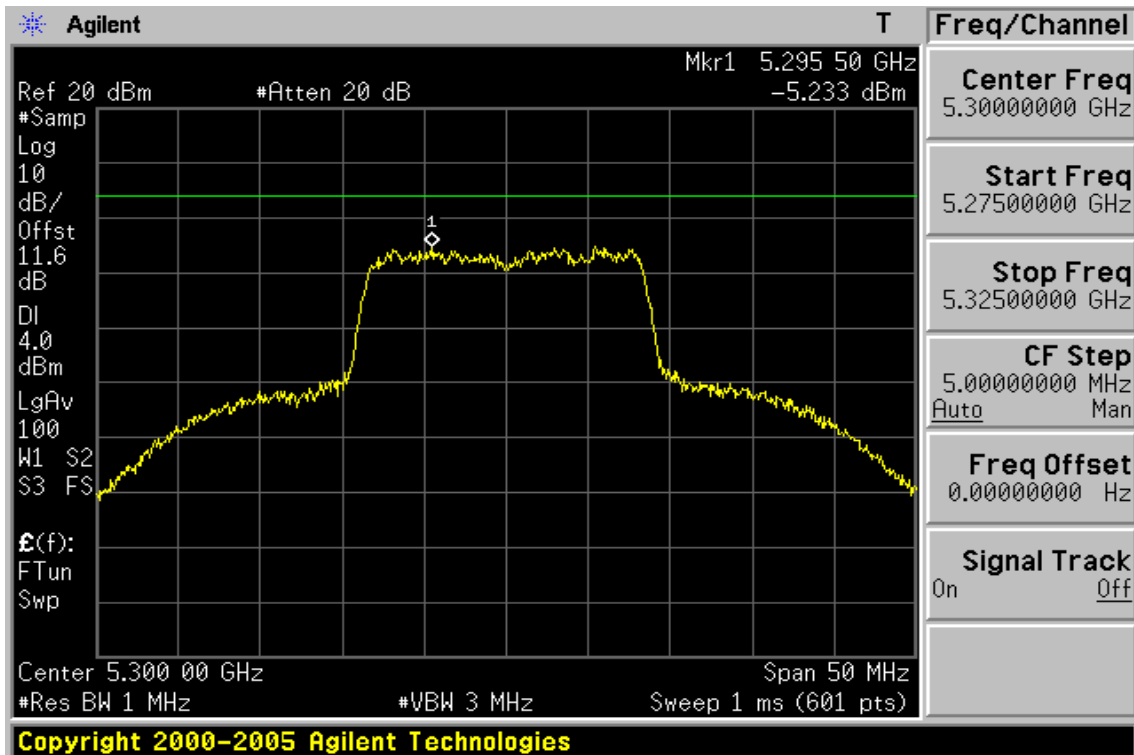
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**Modulation Type : 64-QAM, Coding Rate : 2/3**  
**PPSD Data Plot (CH Mid 5220 MHz)**



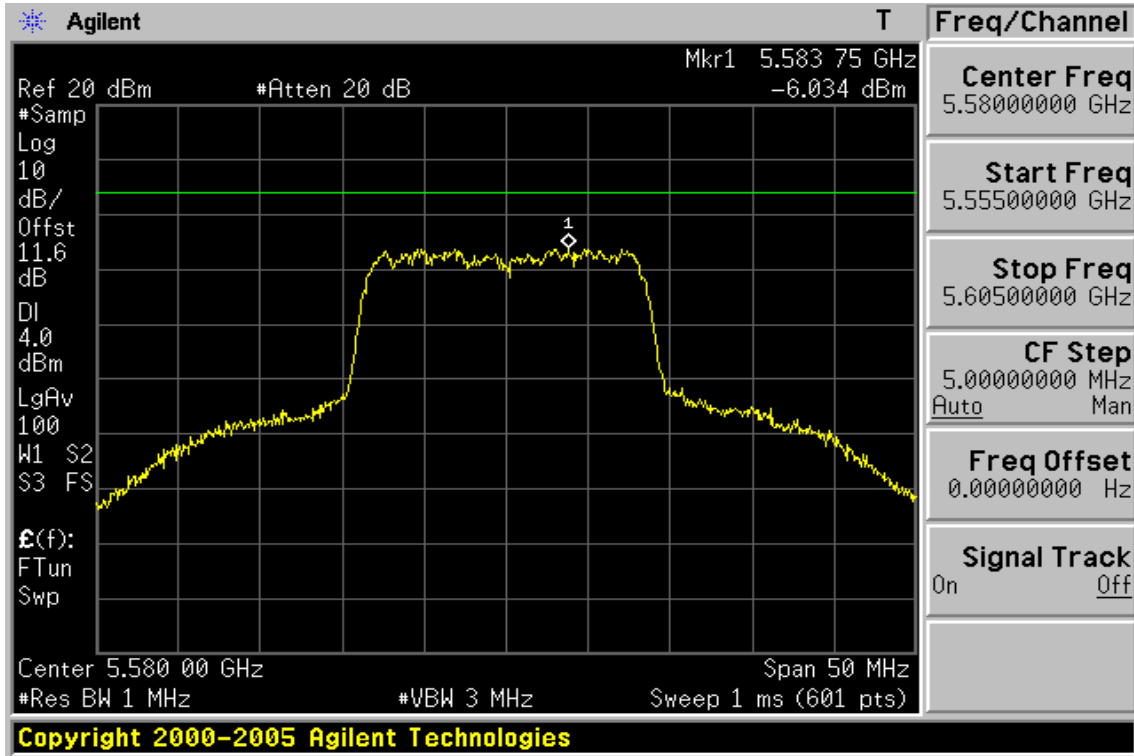
**802.11a, 5250~5350 MHz, PPSD Data Plot (CH Mid 5300 MHz)**



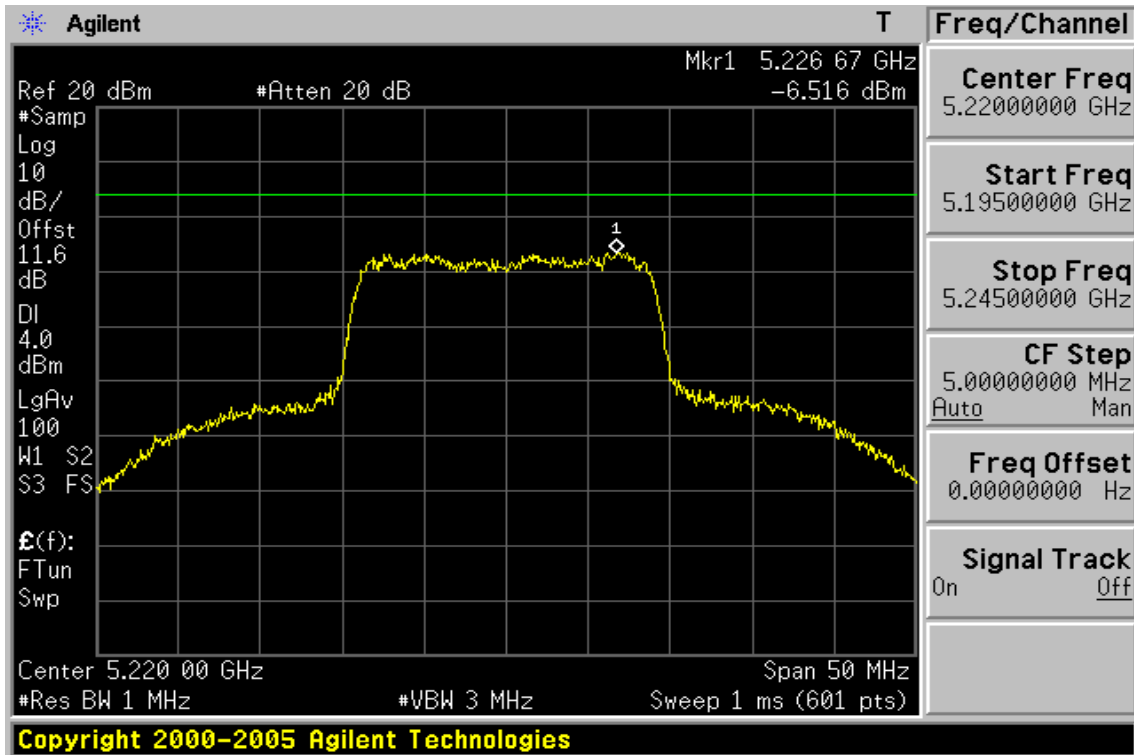
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802.11a, 5470~5725 MHz, PPSD Data Plot (CH Mid 5580 MHz)



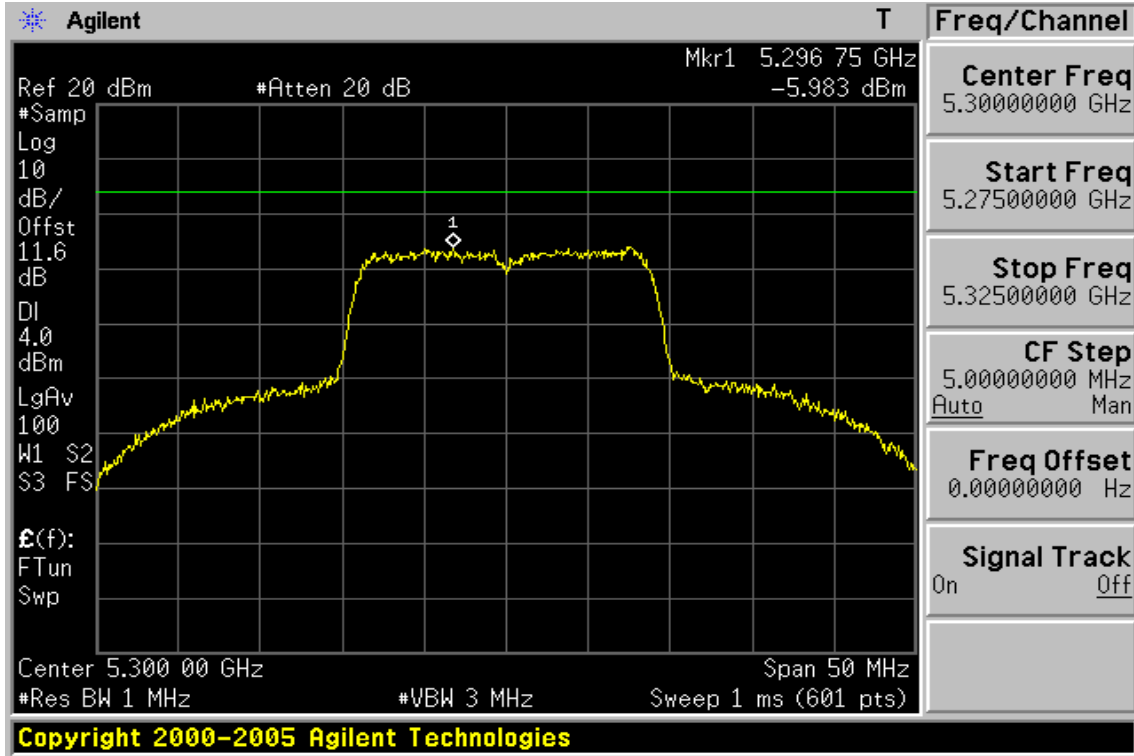
802.11n HT20, 5150~5250 MHz, PPSD Data Plot (CH Mid 5220 MHz)



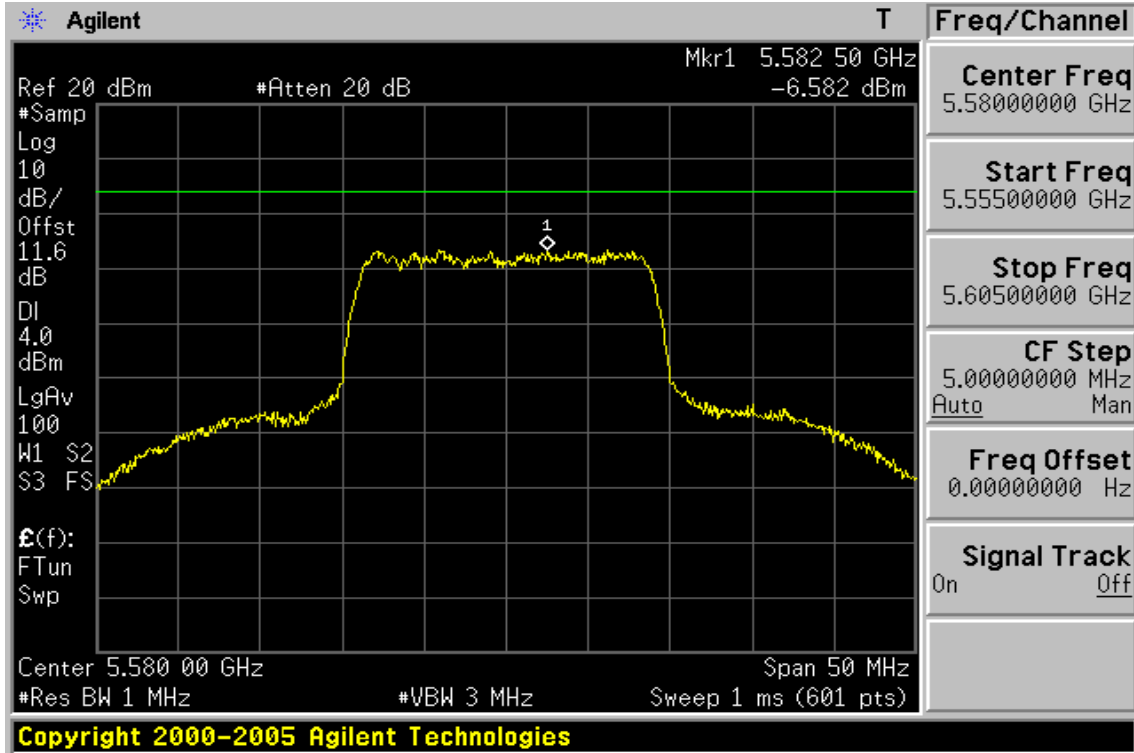
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**802.11n HT20, 5250~5350 MHz, PPSD Data Plot (CH Mid 5300 MHz)**



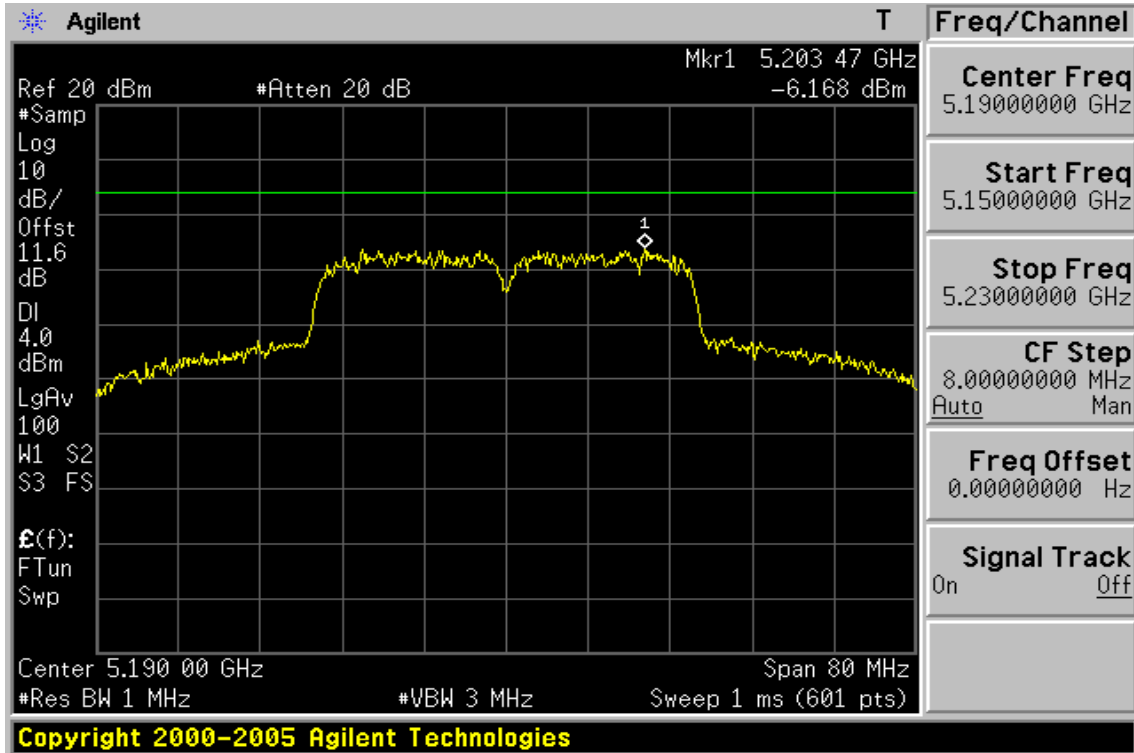
**802.11n HT20, 5470~5725 MHz, PPSD Data Plot (CH Mid 5580MHz)**



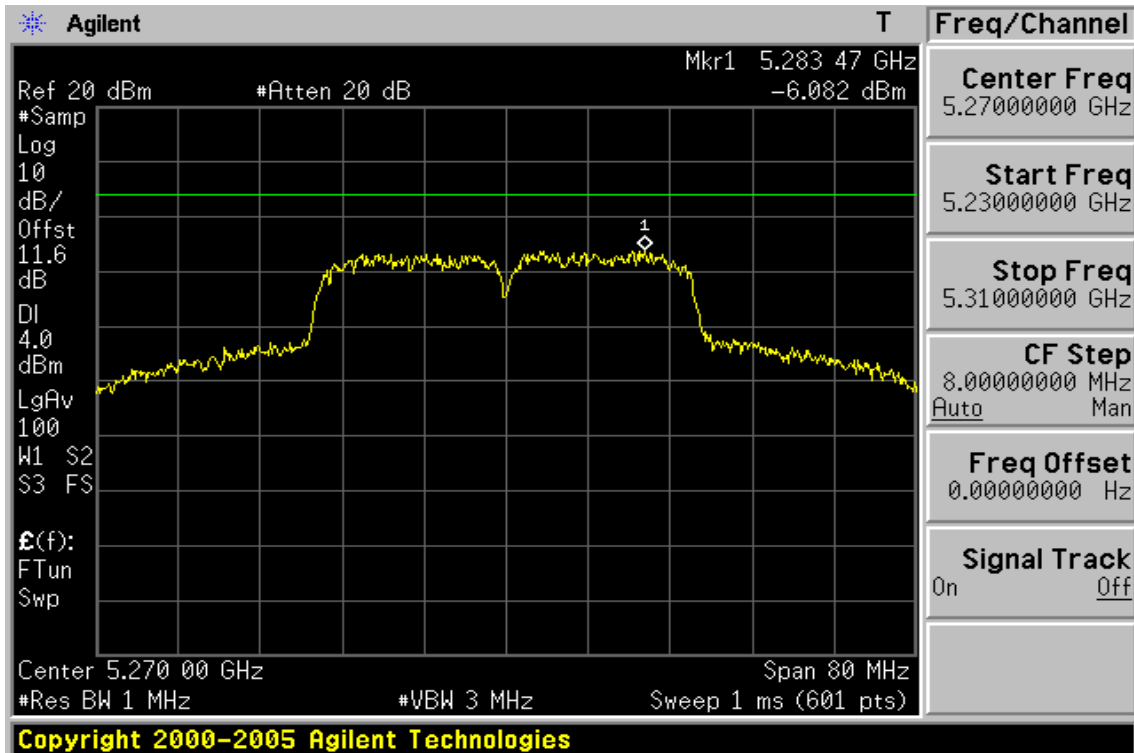
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**802.11n HT40, 5150~5250 MHz, PPSD Data Plot (CH Low 5190 MHz)**



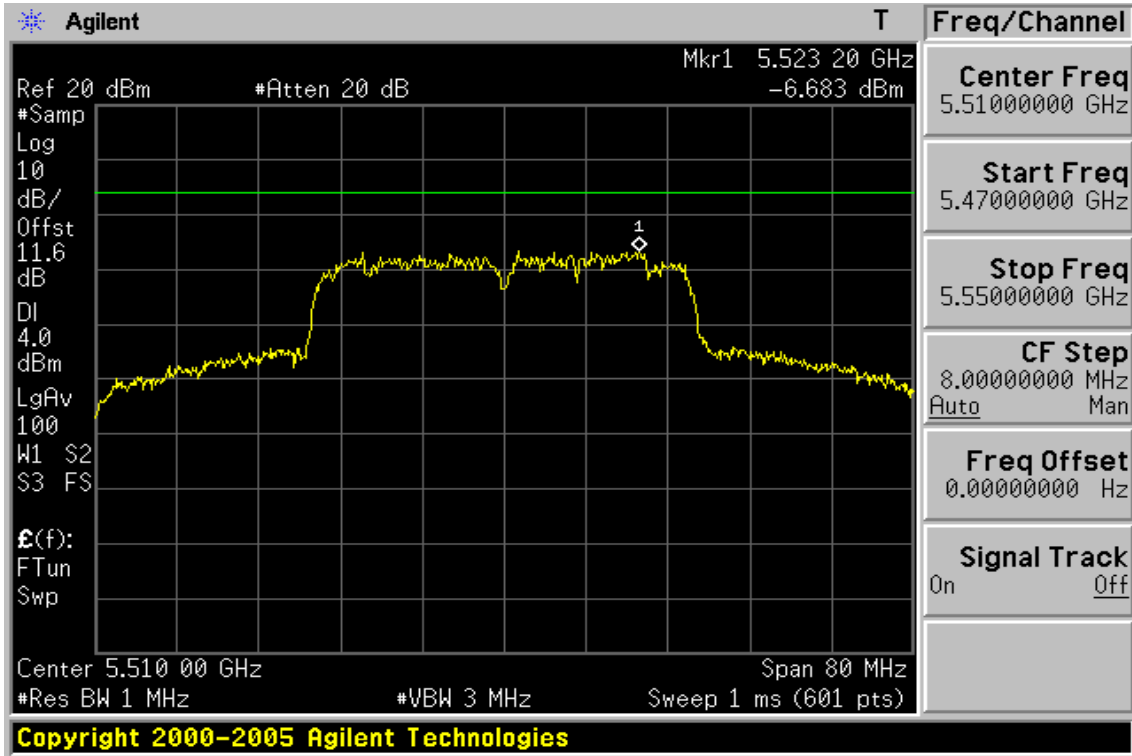
**802.11n HT40, 5250~5350 MHz, PPSD Data Plot (CH Low 5270 MHz)**



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802.11n HT40, 5470~5725 MHz, PPSD Data Plot (CH Low 5510 MHz)



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## 11. UNDESIRABLE EMISSION - CONDUCTED MEASUREMENT

### 11.1 Standard Applicable

According to §15.407(b),

(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) For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band.
- (3) For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.
- (4) The above emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.

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## According to RSS-210 A9.2

1. For transmitters operating in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p.
2. Emissions outside the band 5250-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p.
3. For transmitters operating in the band 5470-5725 MHz, all emissions outside that band shall not exceed -27 dBm/MHz e.i.r.p.

Procedure H2) a) b) c) are adopted, KDB 789033 D01, where the conducted measurement is being used to comply with out of emission requirement as per FCC 15.407 b) 1) 2) 3), and RSS-210 A9.2 1), 2), and 3)

## 11.2 Measurement Procedure

### Conducted Emission:

1. To connect Antenna Port of EUT to Spectrum.
2. Set RBW = 100 kHz, VBW = 300 kHz while frequency of the measurement is swept below 1GHz, RBW = 1MHz & VBW = 3MHz while frequency of the measurement is swept above 1GHz on Spectrum. Detector = Peak, set DL as the limit line to -27dBm, add the offset = 4.7dB for frequency below 1GHz, and 2dB for frequency above 1GHz.
3. Sweep the frequency to determine spurious emission as seen on spectrum from span of 30 to 1G, 1G to 3G, 3G to 6G, 6G to 13G, 13G to 18G, 18G to 26.5G and 26.5G to 40GHz
4. Via Software, combine 6 spans of frequency range into one plot

Conducted RF measurements of the transmitter output were made at the band edges and the adjacent restricted bands.

Also, conducted RF measurements of the transmitter output over the 30 MHz to 40 GHz band were made in order to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

Note: the spike on the spectrum is the fundamental emission that does not account for the test outside the frequency band as required by associative regulatory provision.



### 11.3 Measurement Equipment Used:

Refer to section 7.3 for details.

### 11.4 Test Set-up:

Refer to section 7.4 for details.

### 11.5 Measurement Result:

Refer to next page for plots.

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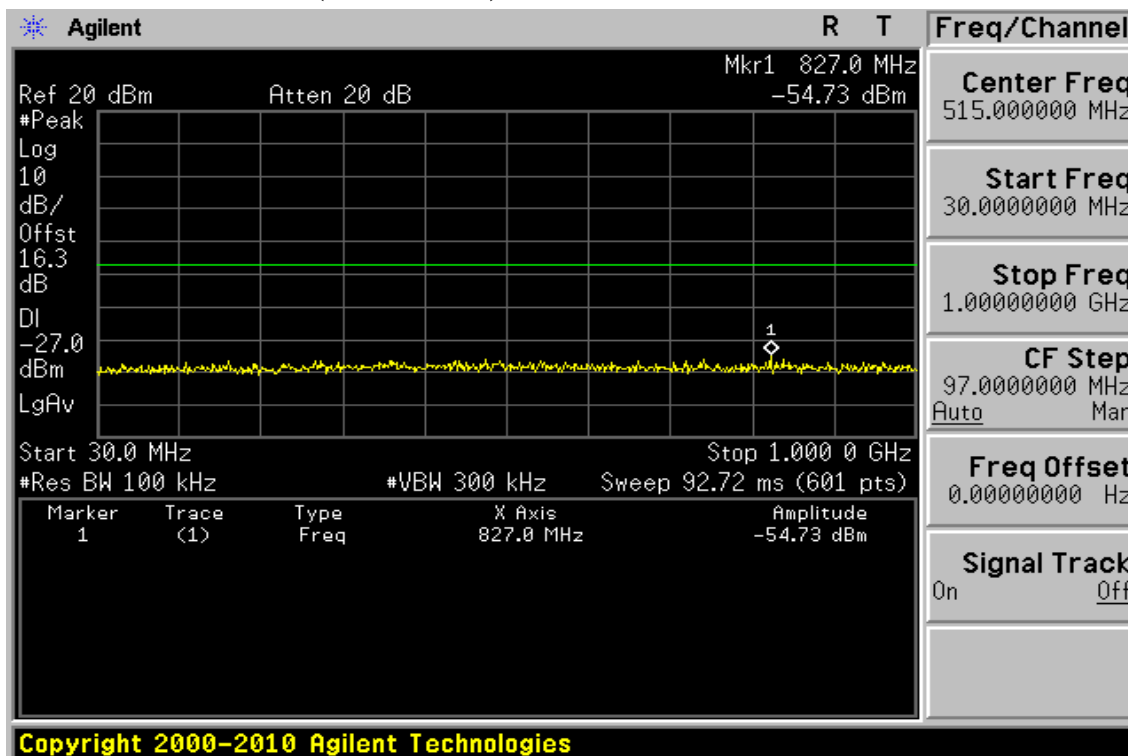
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f (886-2) 2298-0488

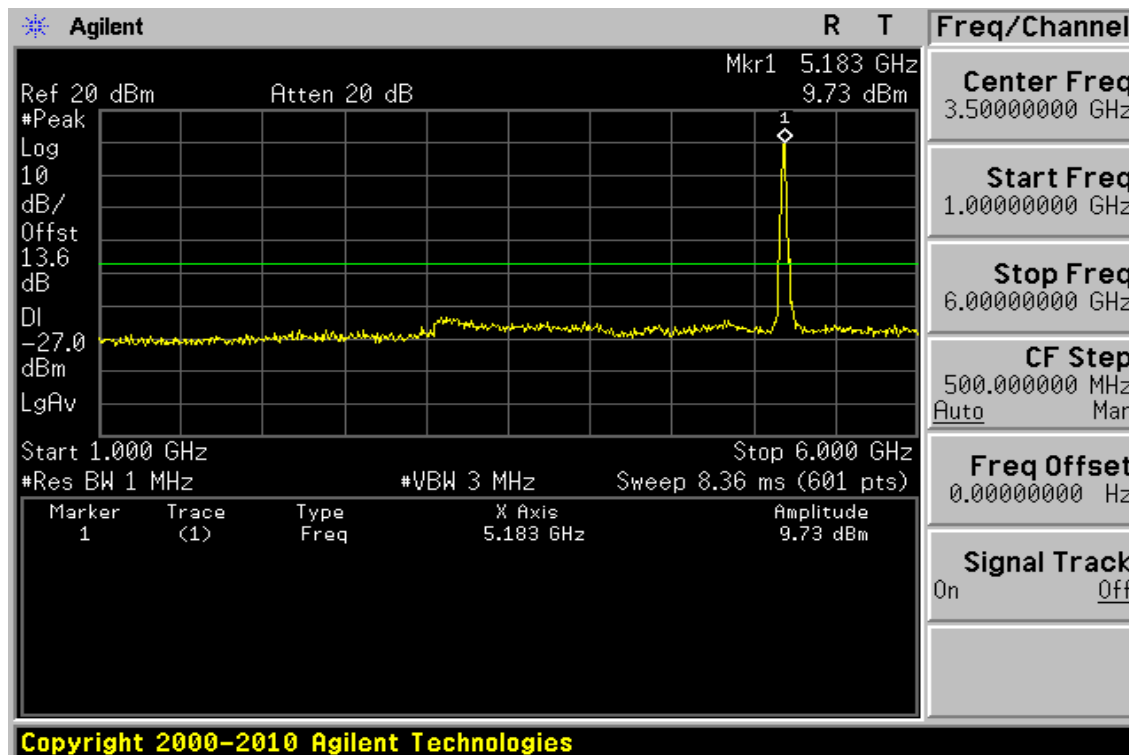
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**802.11a, 5150~5250 MHz**  
**Ch Low 30MHz – 1GHz (5180 MHz)**



**Ch Low 1GHz – 6GHz**

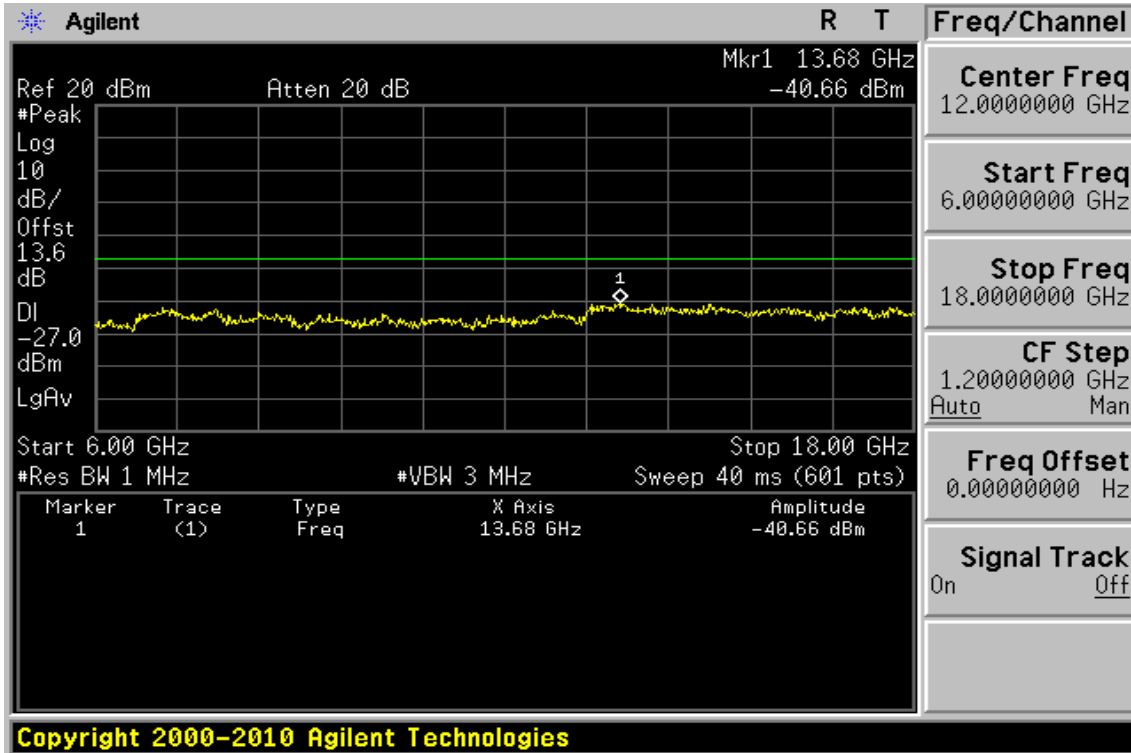


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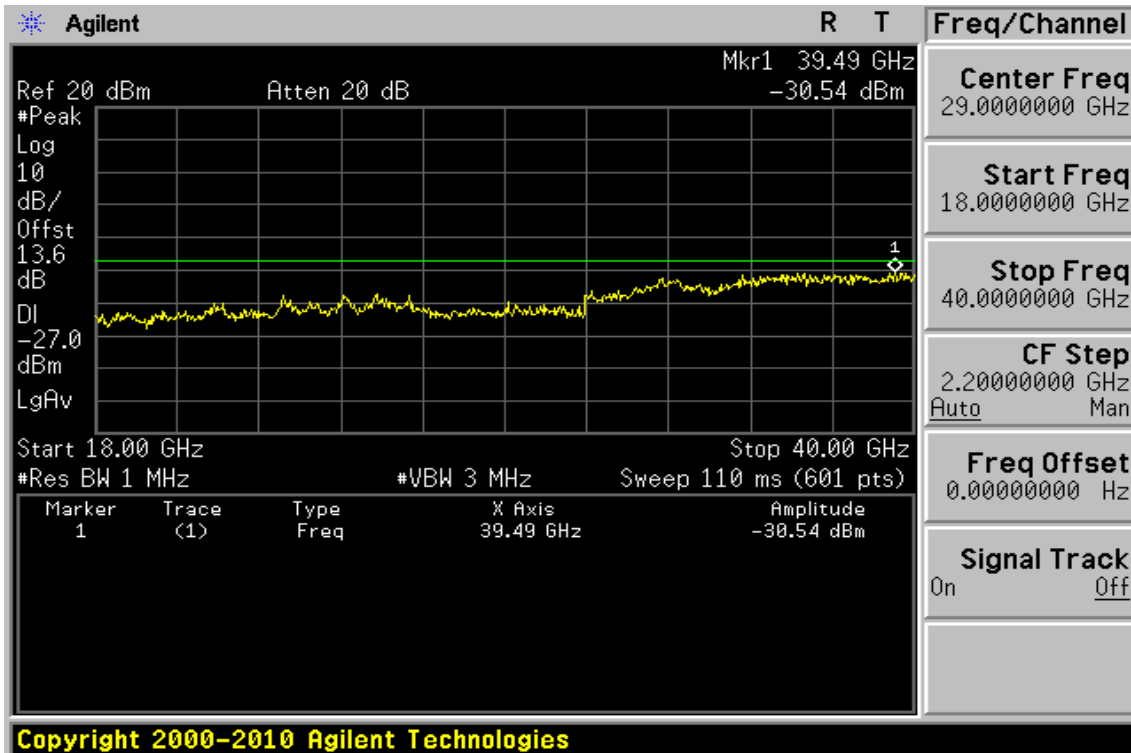
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### Ch Low 6GHz – 18GHz



### Ch Low 18GHz – 40GHz

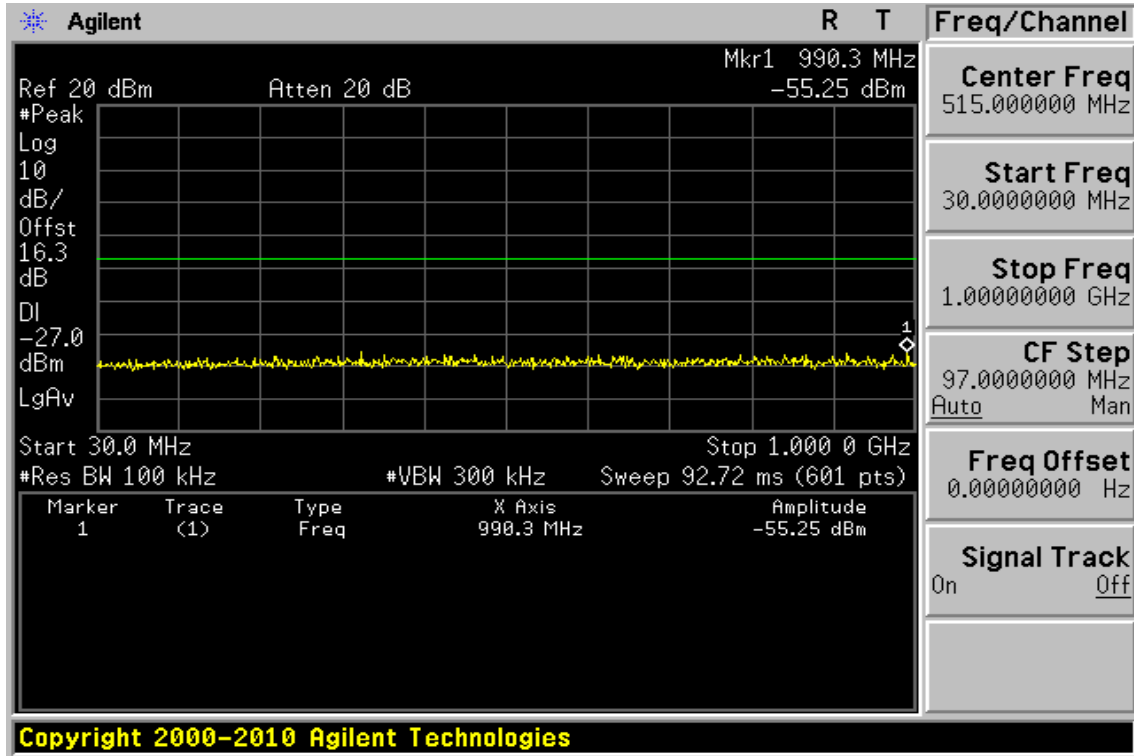


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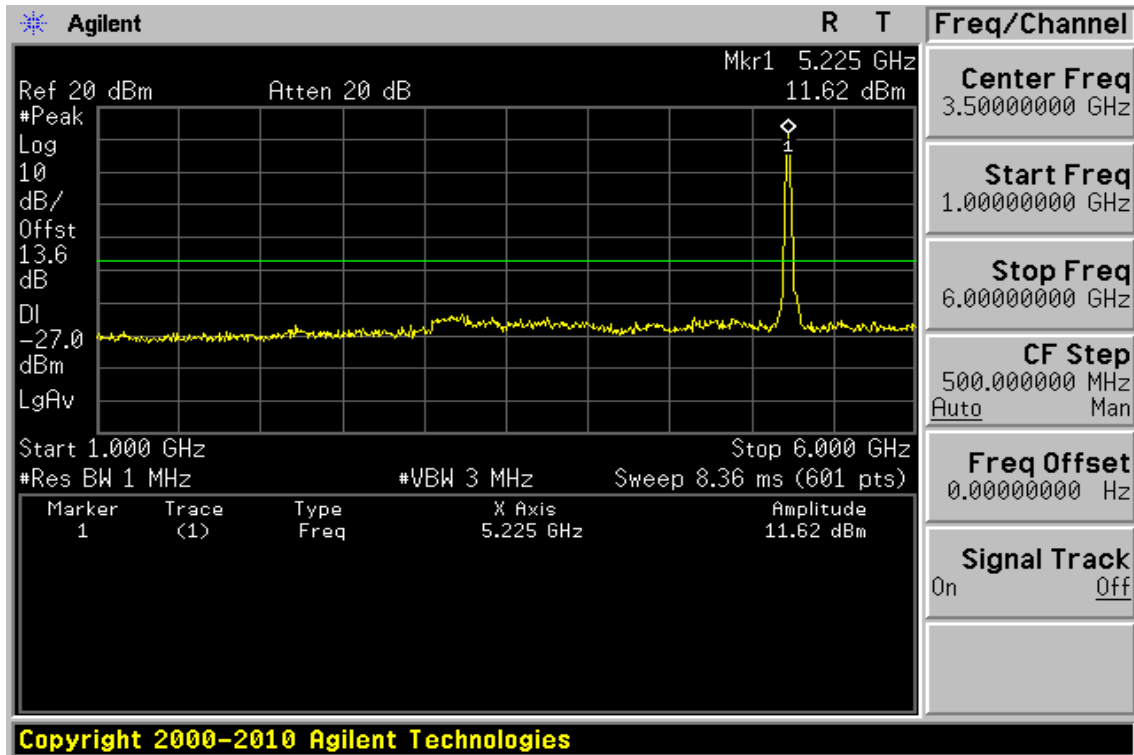
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**Ch Mid 30MHz – 1GHz (5220 MHz)**



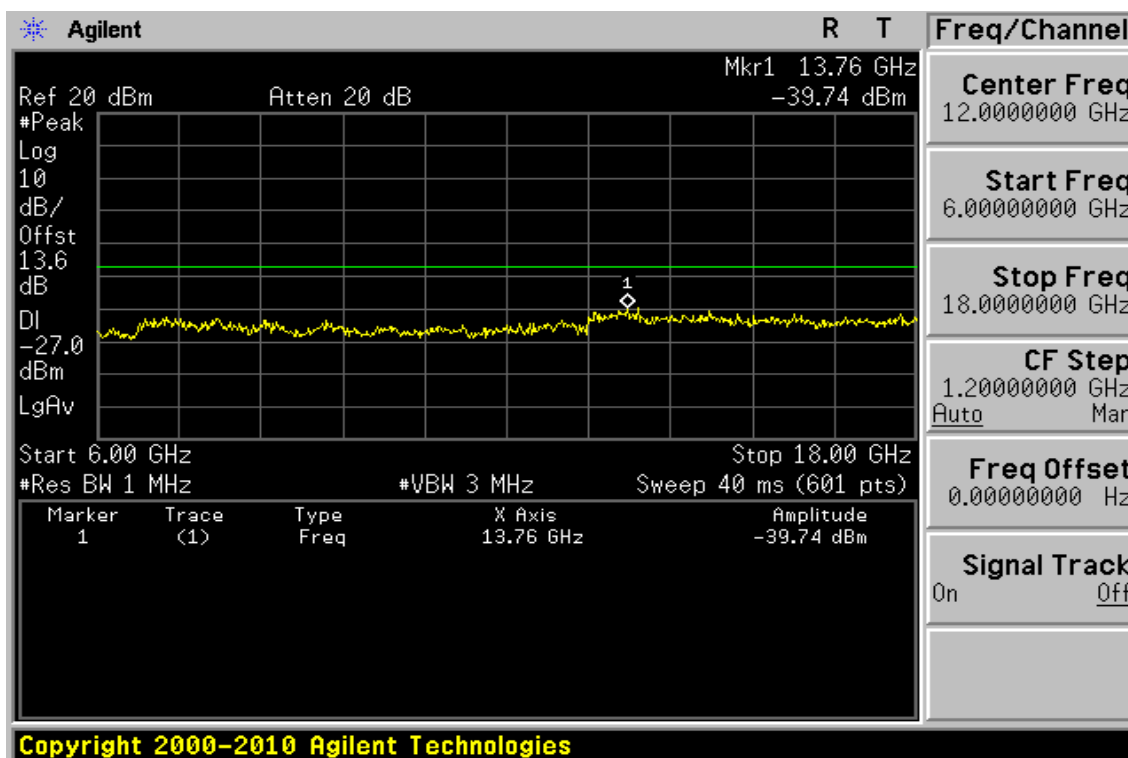
**Ch Mid 1MHz – 6GHz (5220 MHz)**



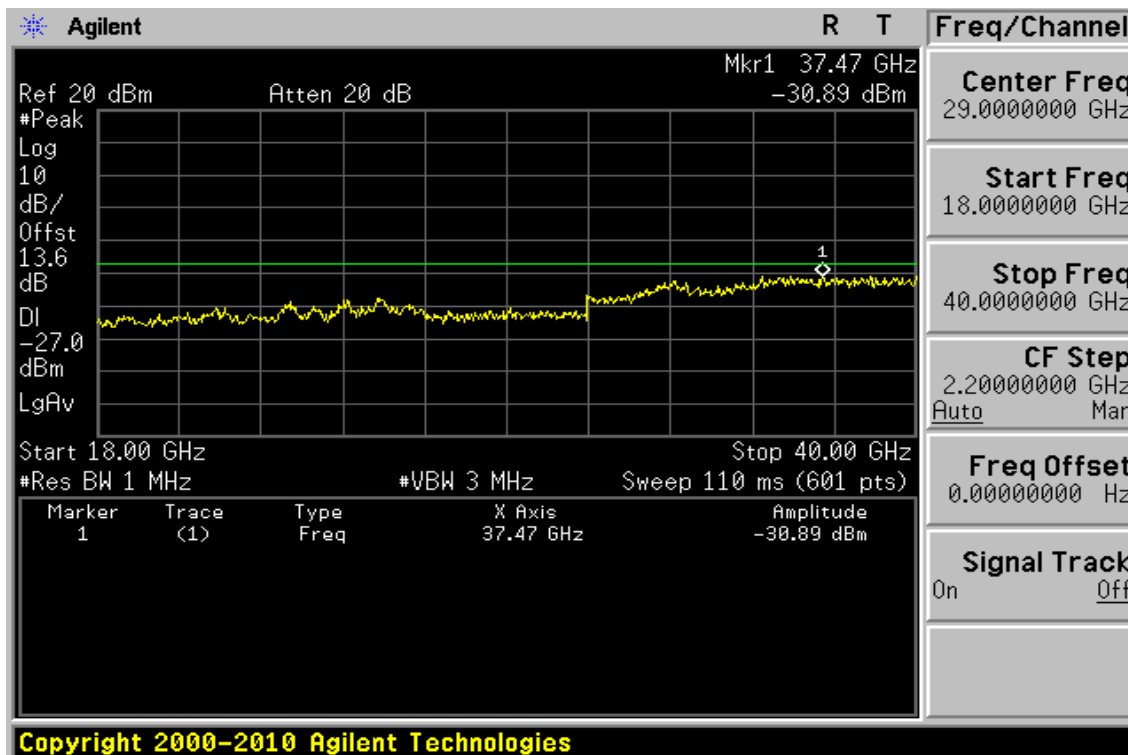
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### Ch Mid 6GHz – 18GHz



### Ch Mid 18GHz – 40GHz

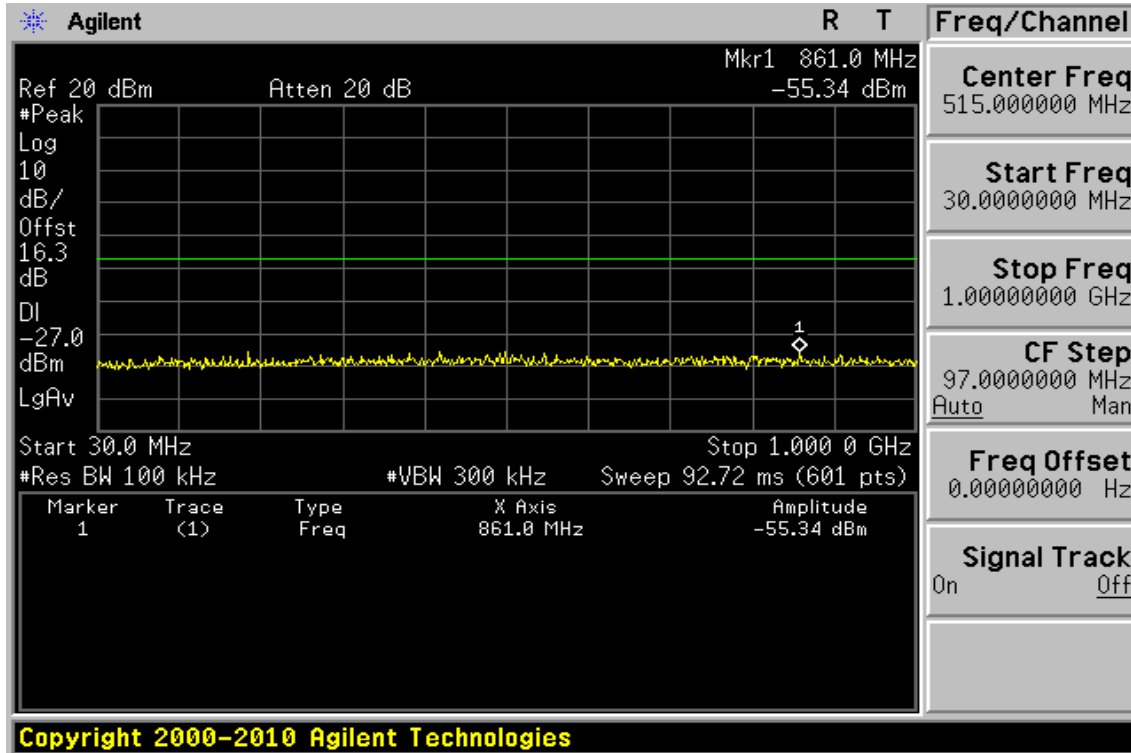


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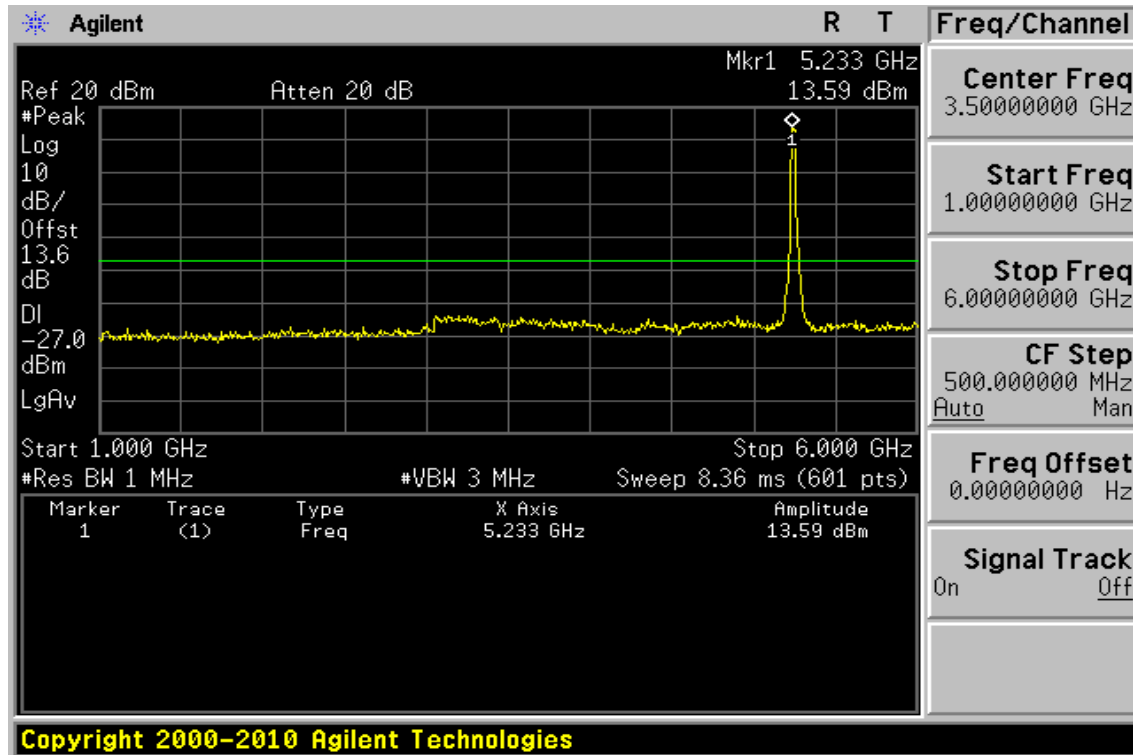
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### Ch High 30MHz – 1GHz (5240 MHz)



### Ch High 1MHz – 6GHz

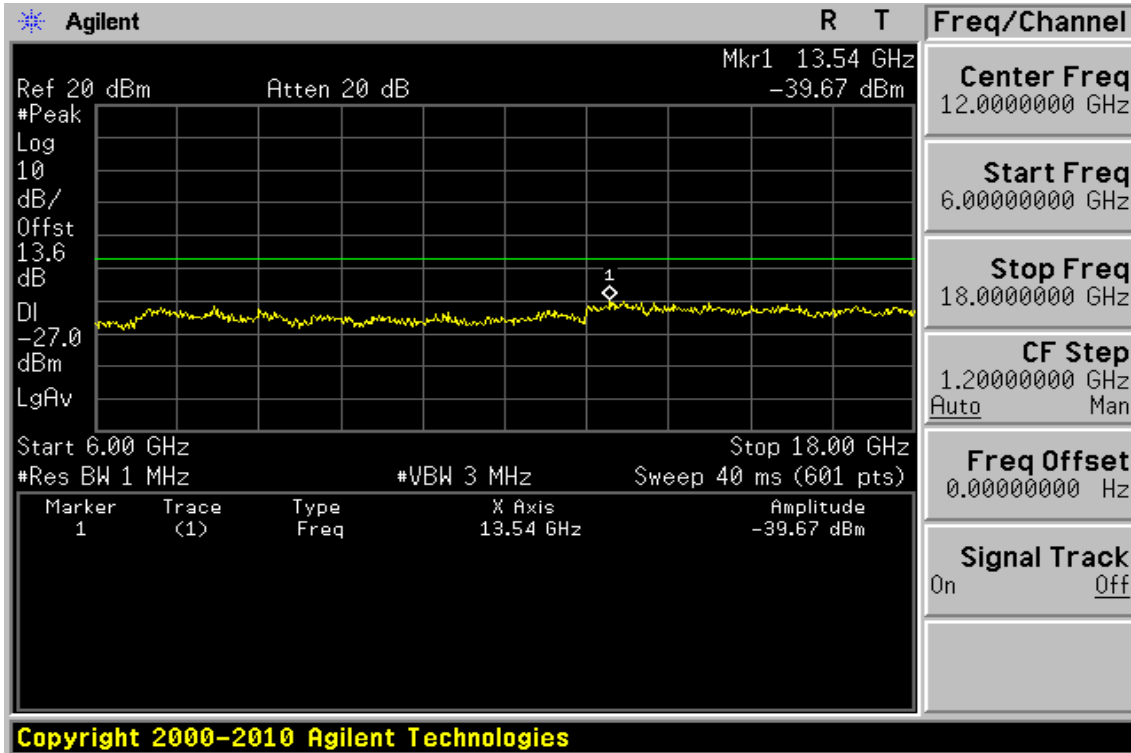


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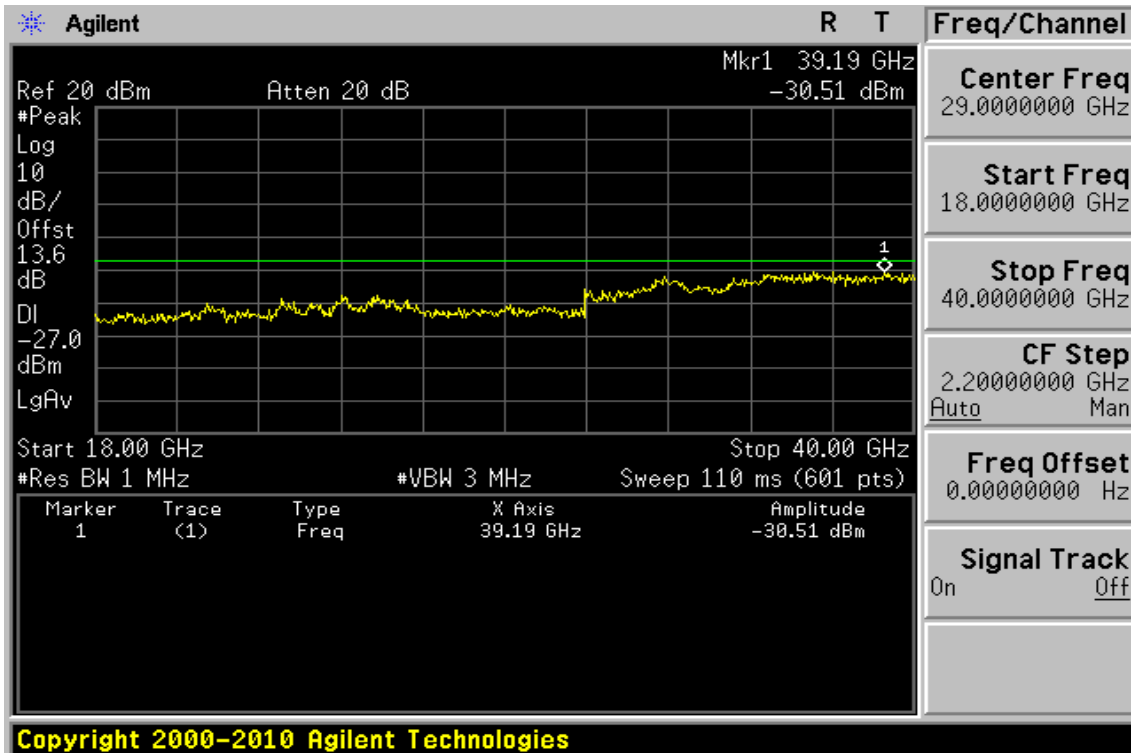
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### Ch High 6GHz – 18GHz



### Ch High 18GHz – 40GHz

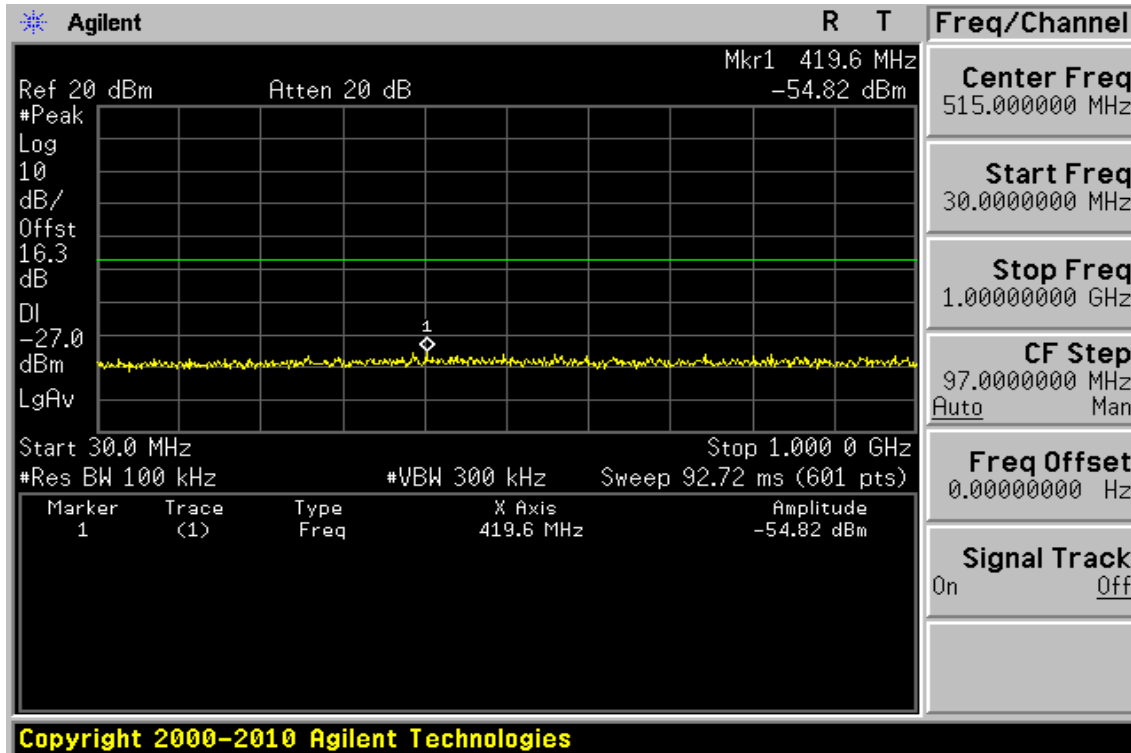


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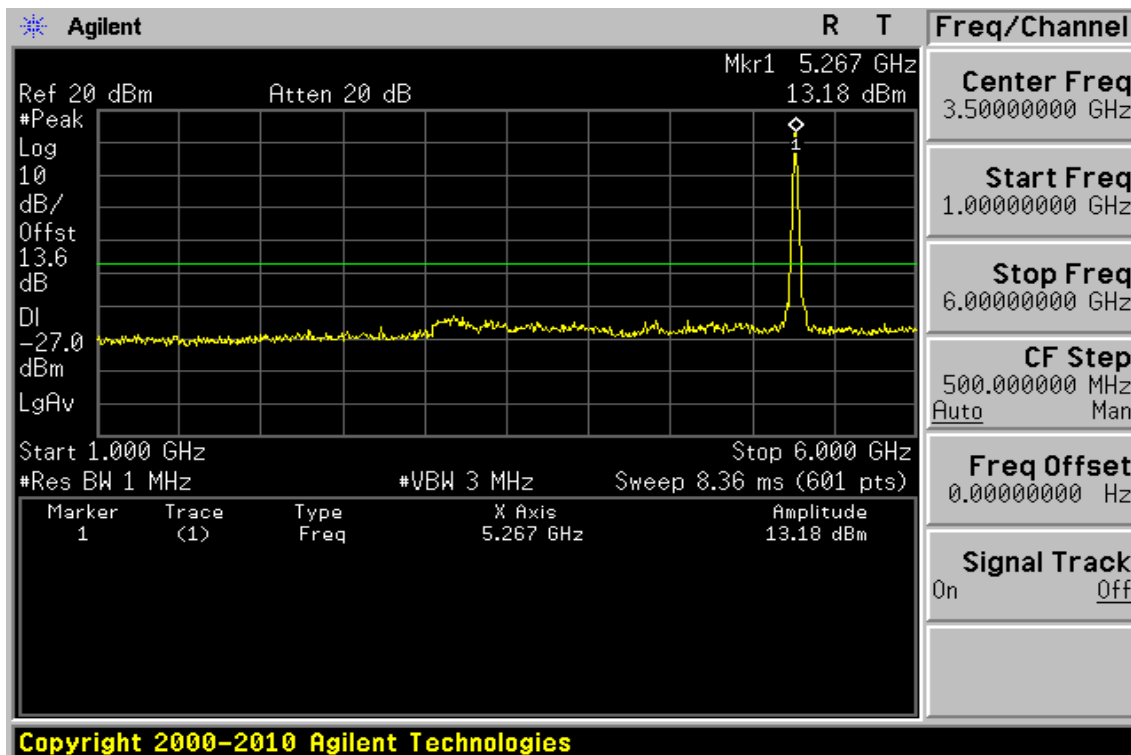
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**802.11a, 5250~5350 MHz**  
**Ch Low 30MHz – 1GHz (5260 MHz)**



**Ch Low 1MHz – 6GHz (5260 MHz)**

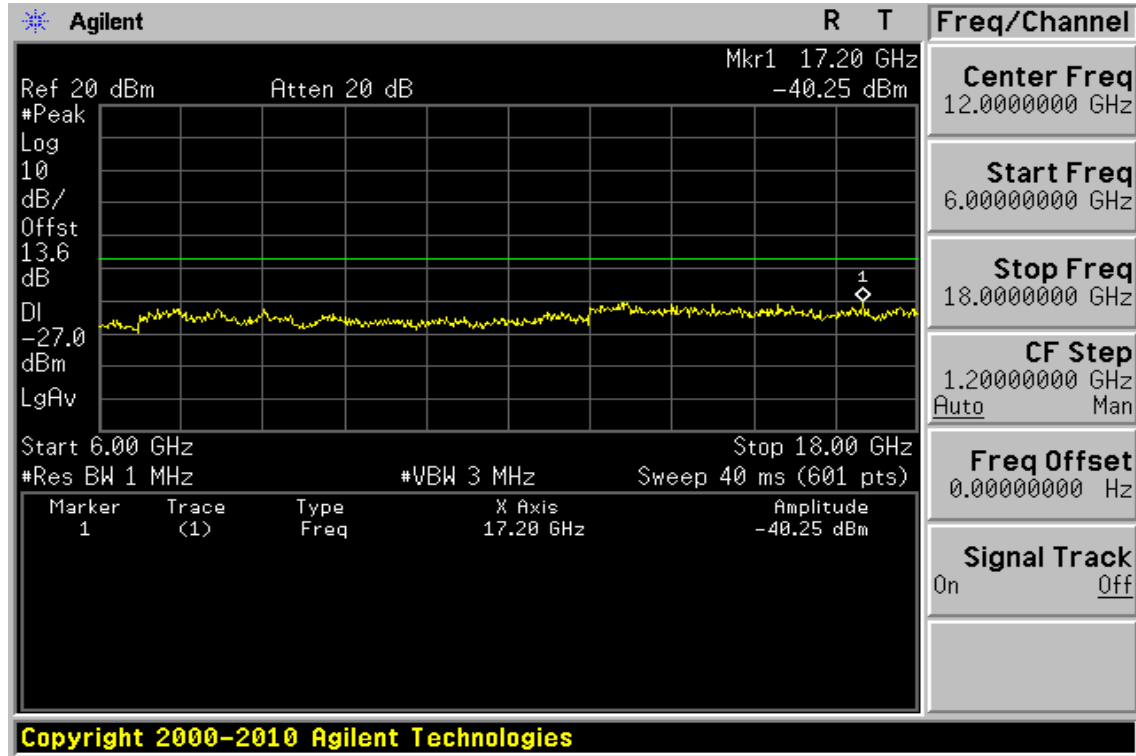


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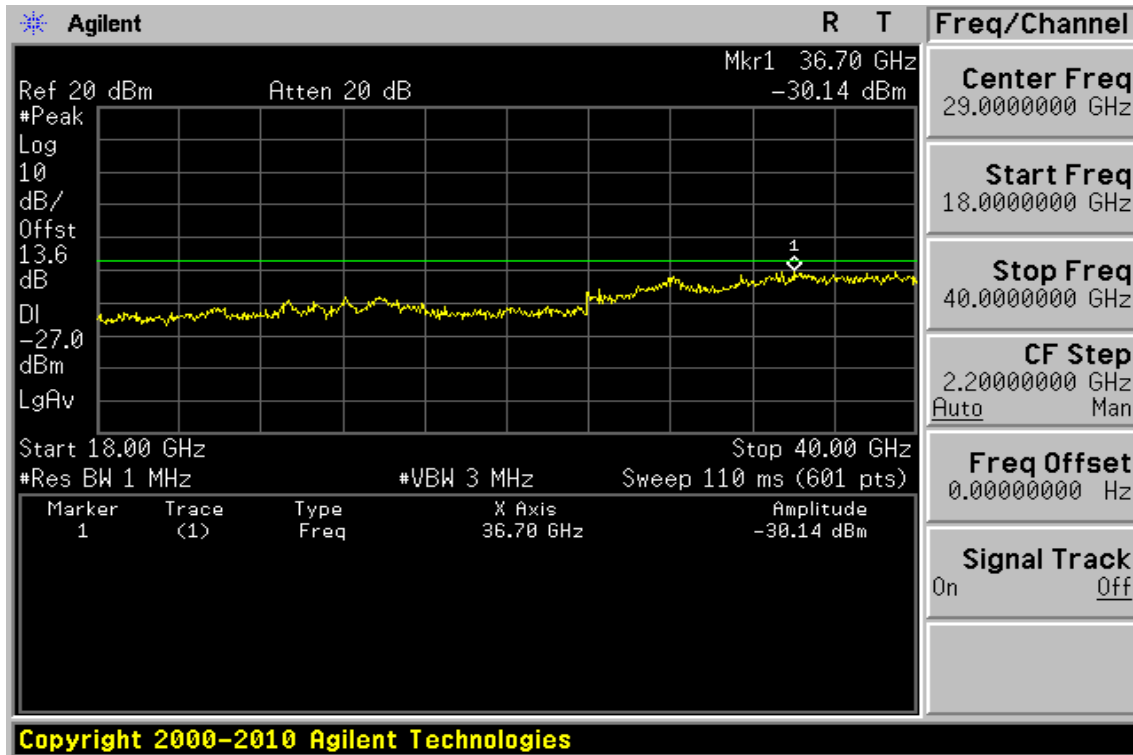
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**Ch Low 6GHz – 18GHz**



**Ch Low 18GHz – 40GHz**

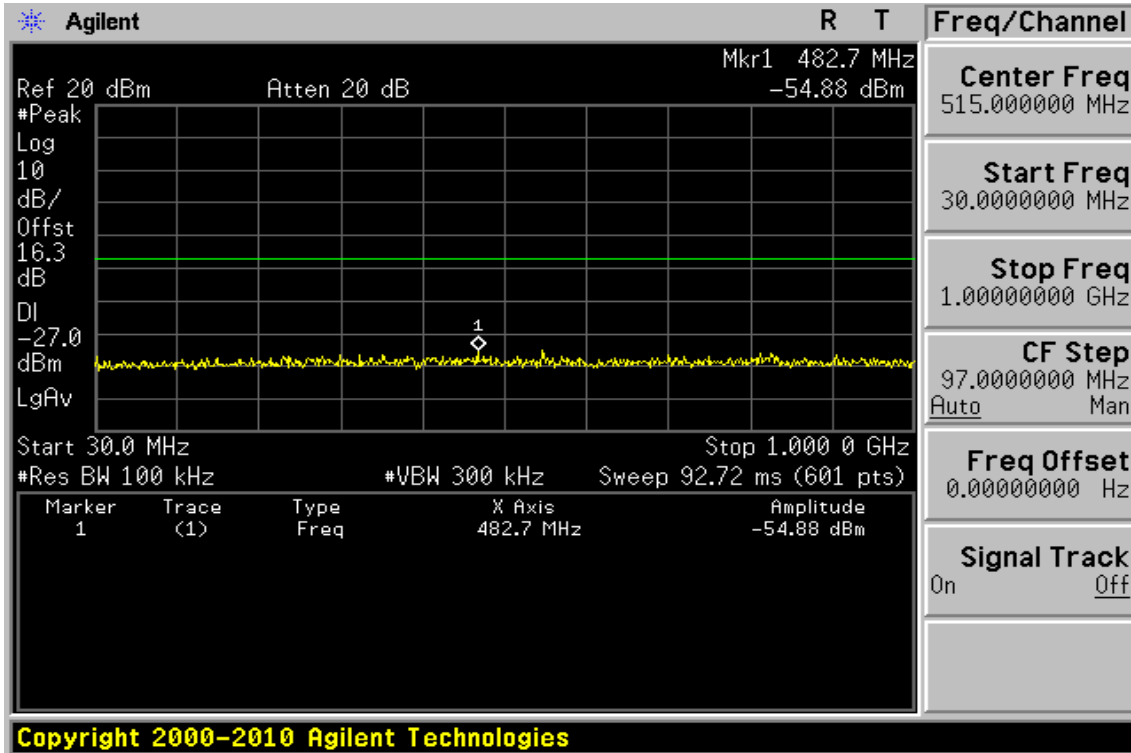


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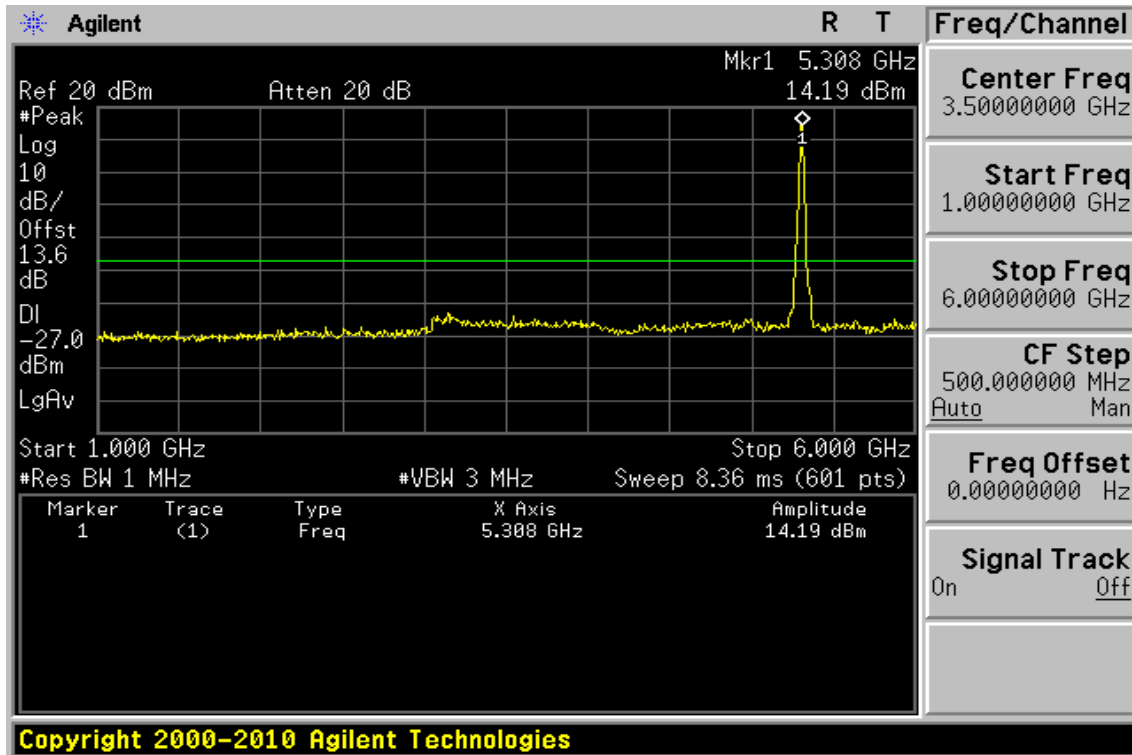
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Ch Mid 30MHz – 1GHz (5300 MHz)



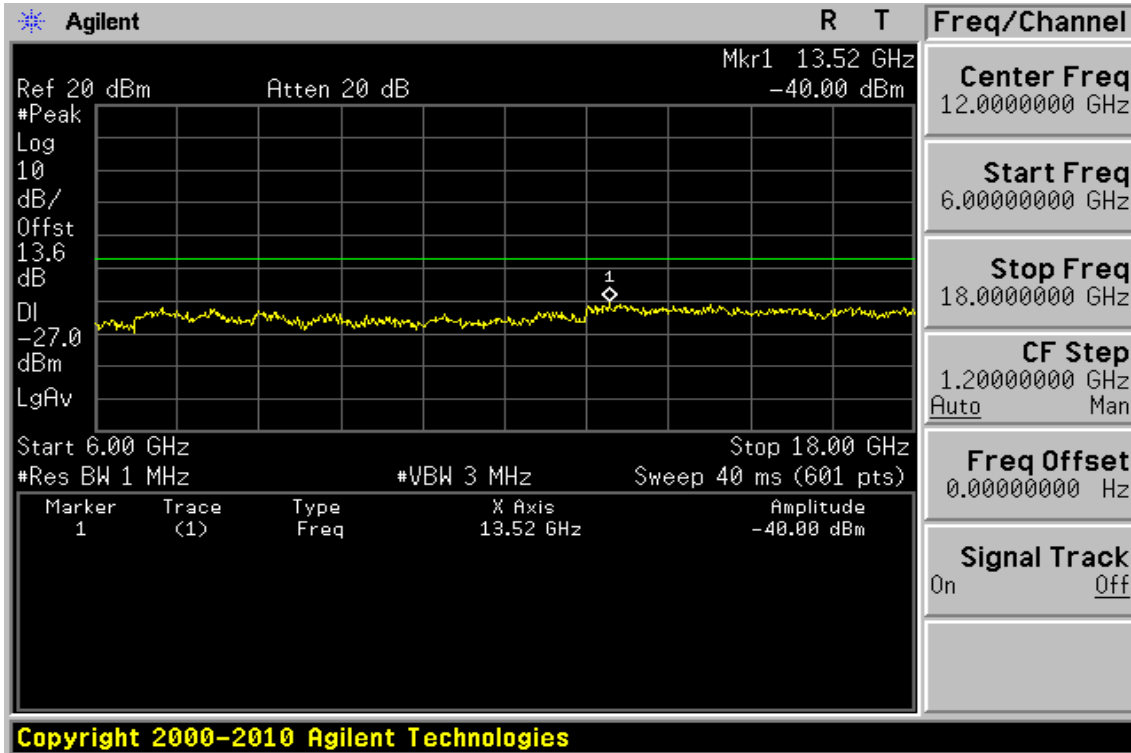
Ch Mid 1MHz – 6GHz



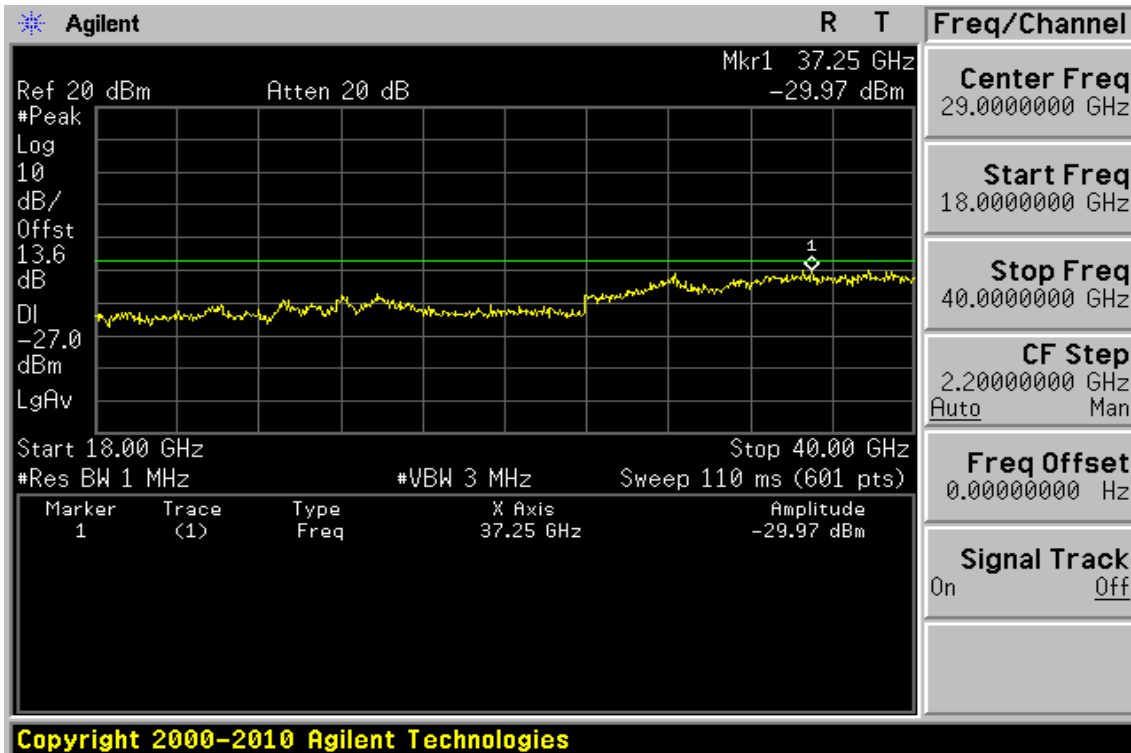
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**Ch Mid 6GHz – 18GHz**



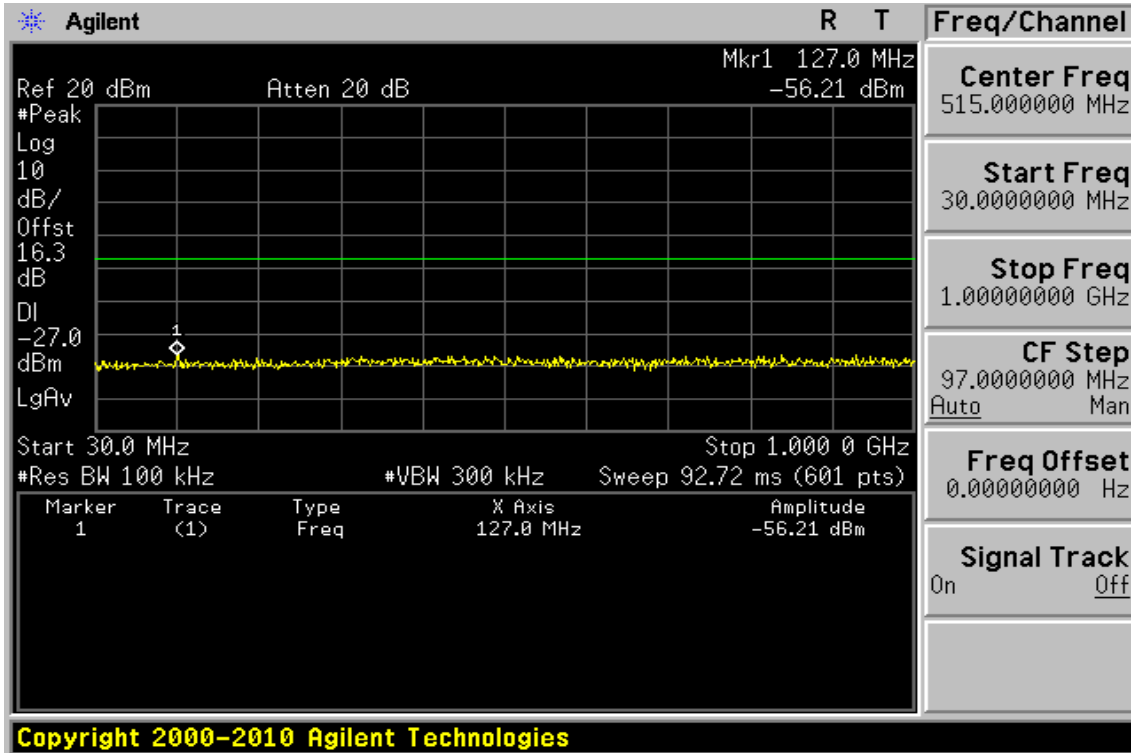
**Ch Mid 18GHz – 40GHz**



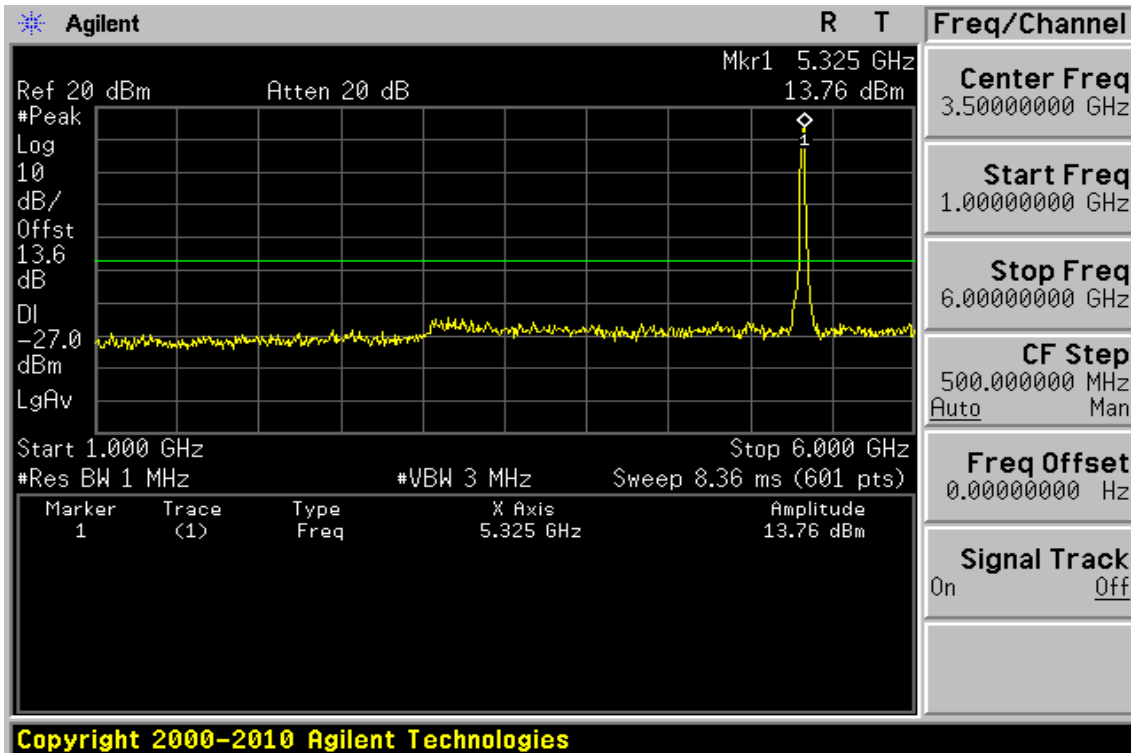
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Ch High 30MHz – 1GHz (5320 MHz)



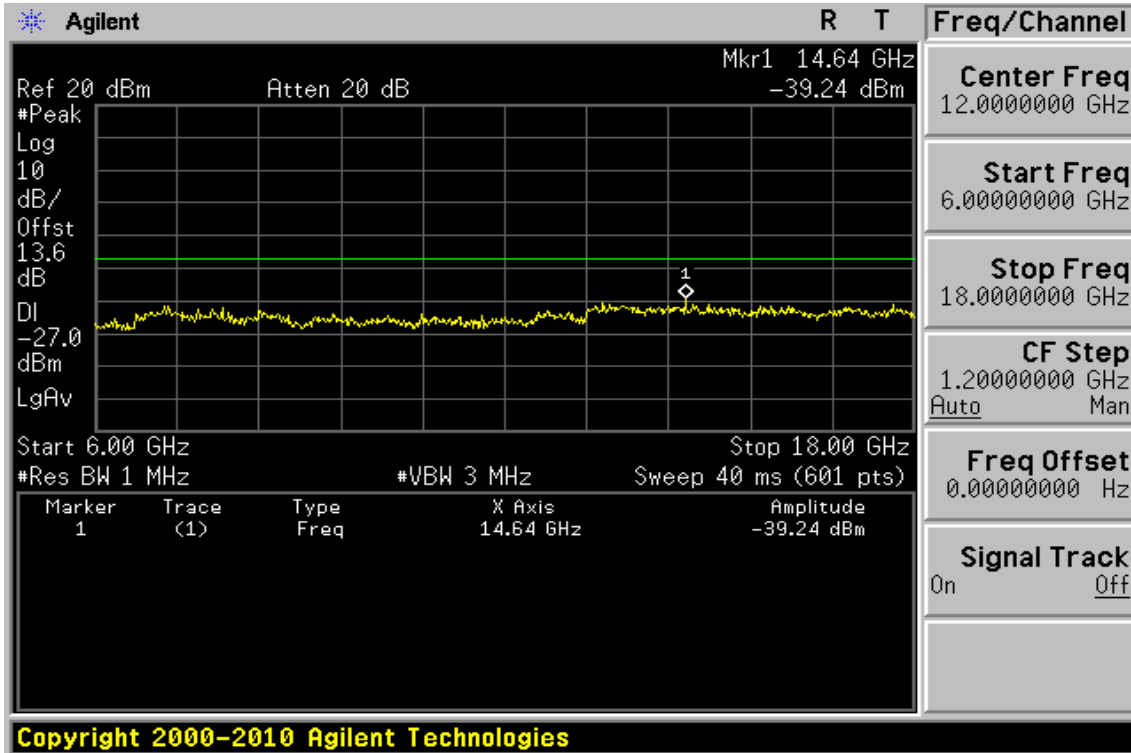
Ch High 1GHz – 6GHz



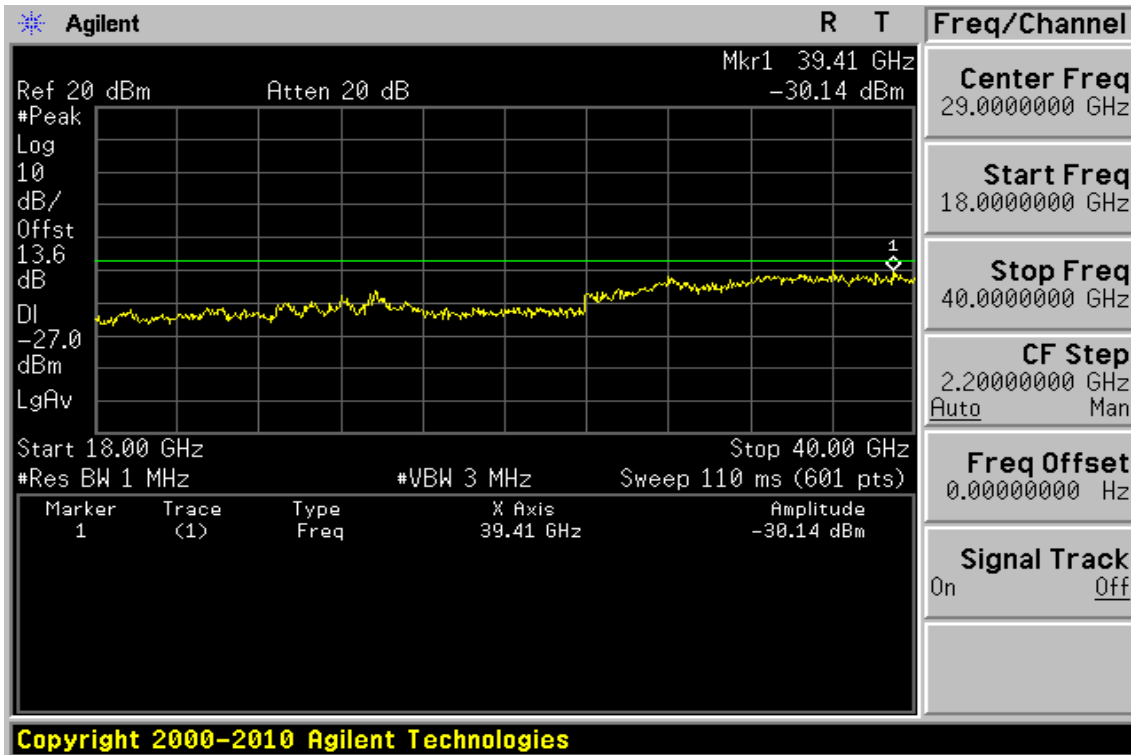
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### Ch High 6GHz – 18GHz



### Ch High 18GHz – 40GHz

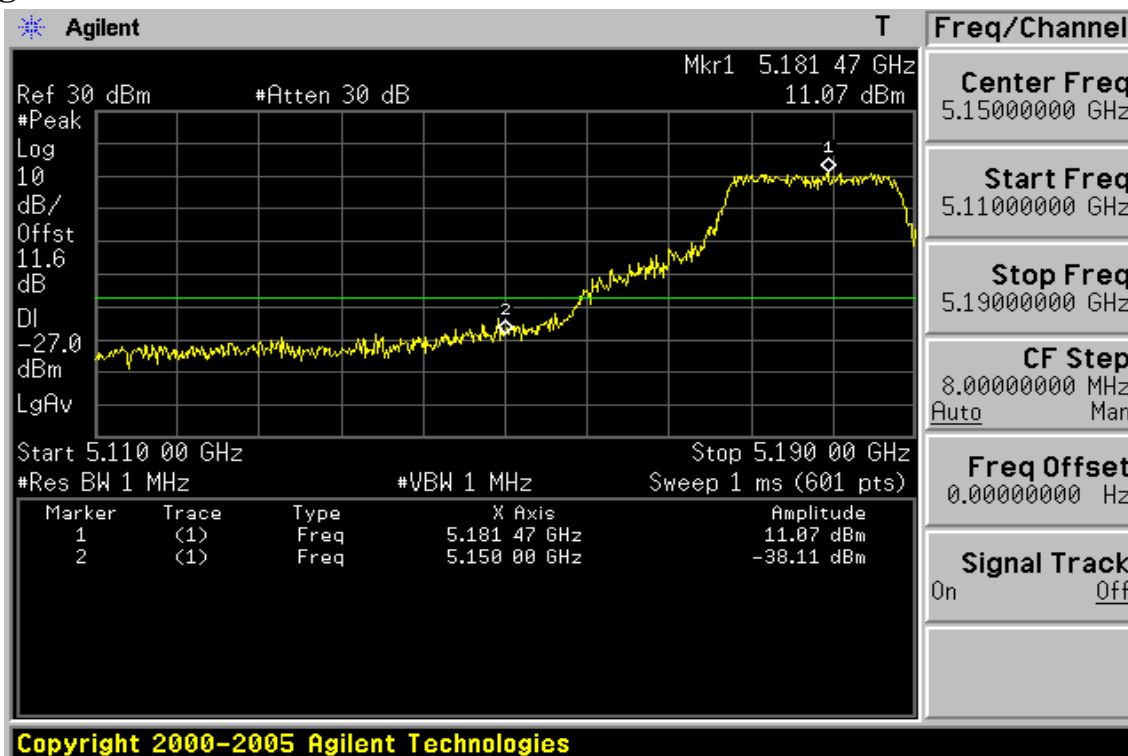


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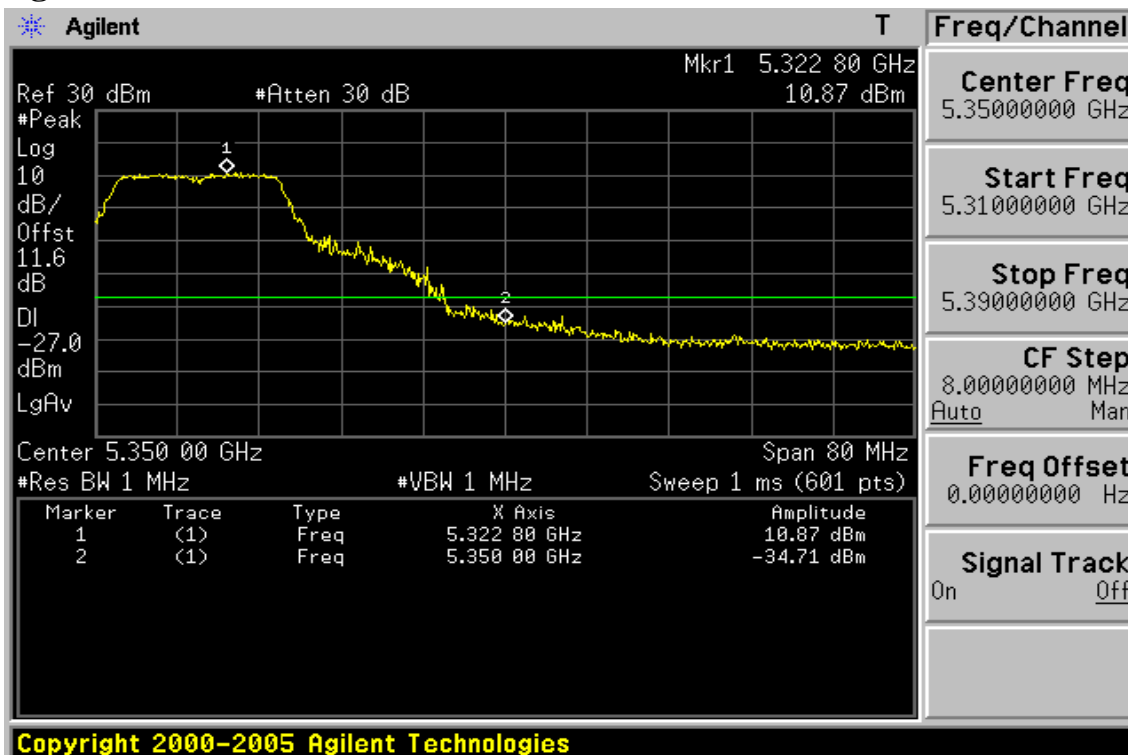
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### 802.11a 5150~5350 MHz

#### Band Edges Test Data CH 5150



#### Band Edges Test Data CH 5350

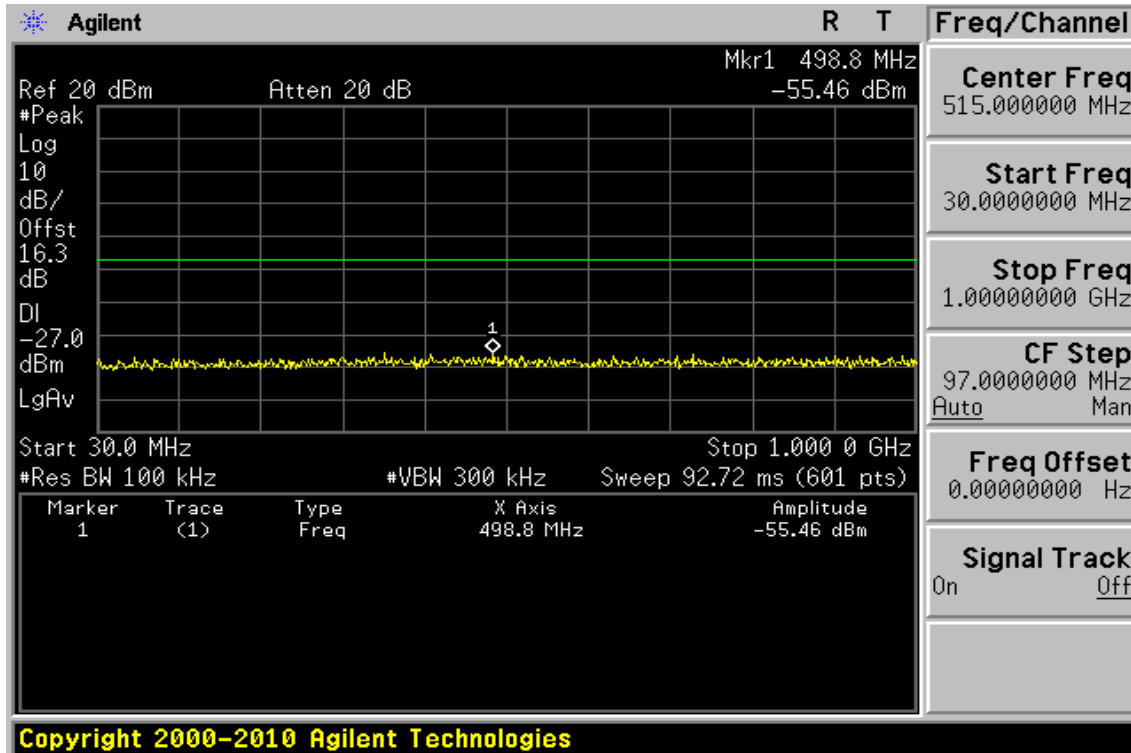


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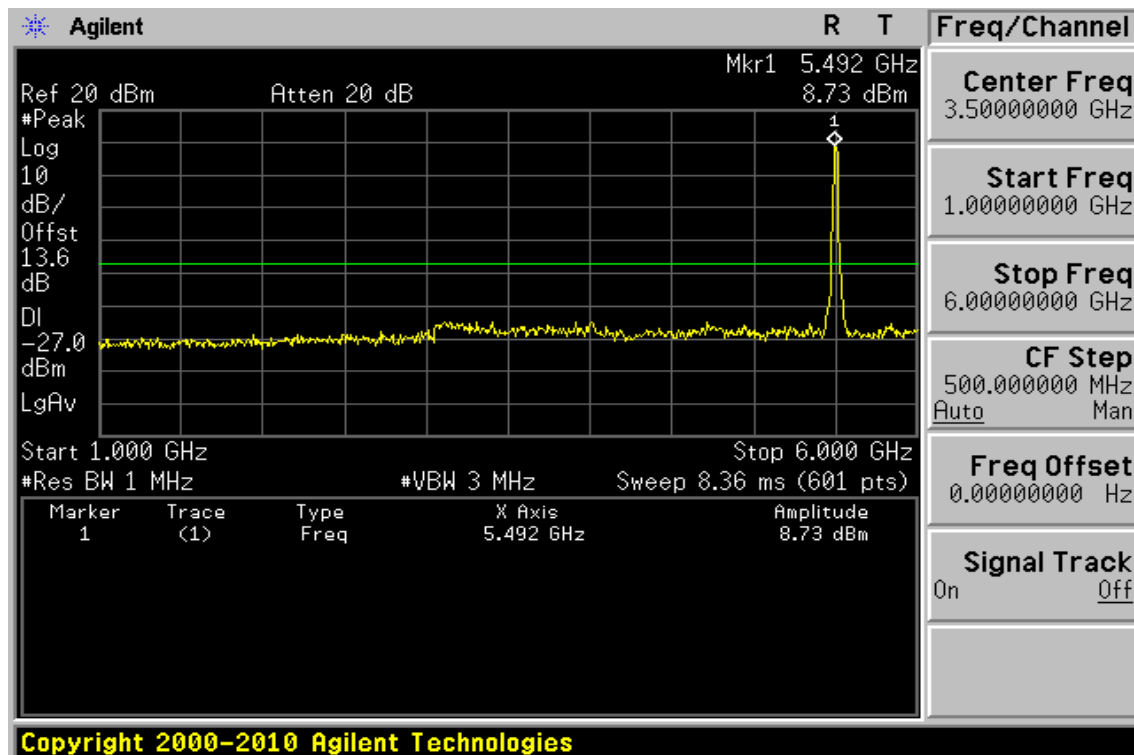
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**802.11a, 5470~5725 MHz**  
**Ch Low 30MHz – 1GHz (5500 MHz)**



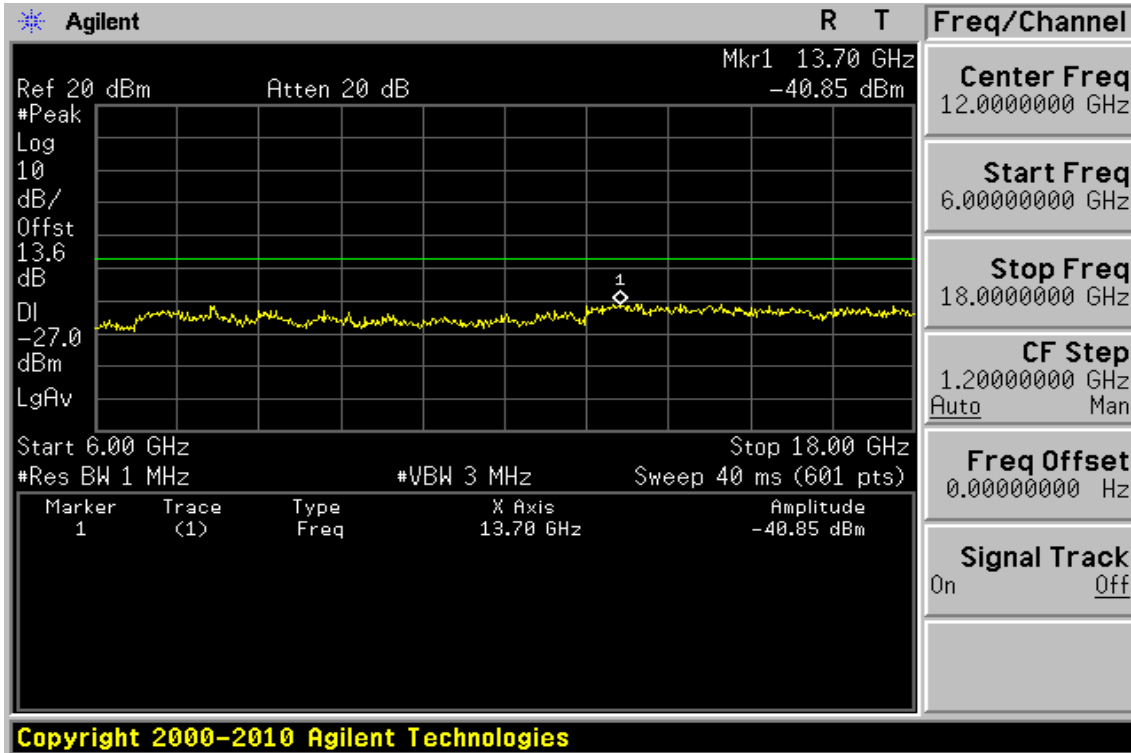
**Ch Low 1GHz – 6GHz**



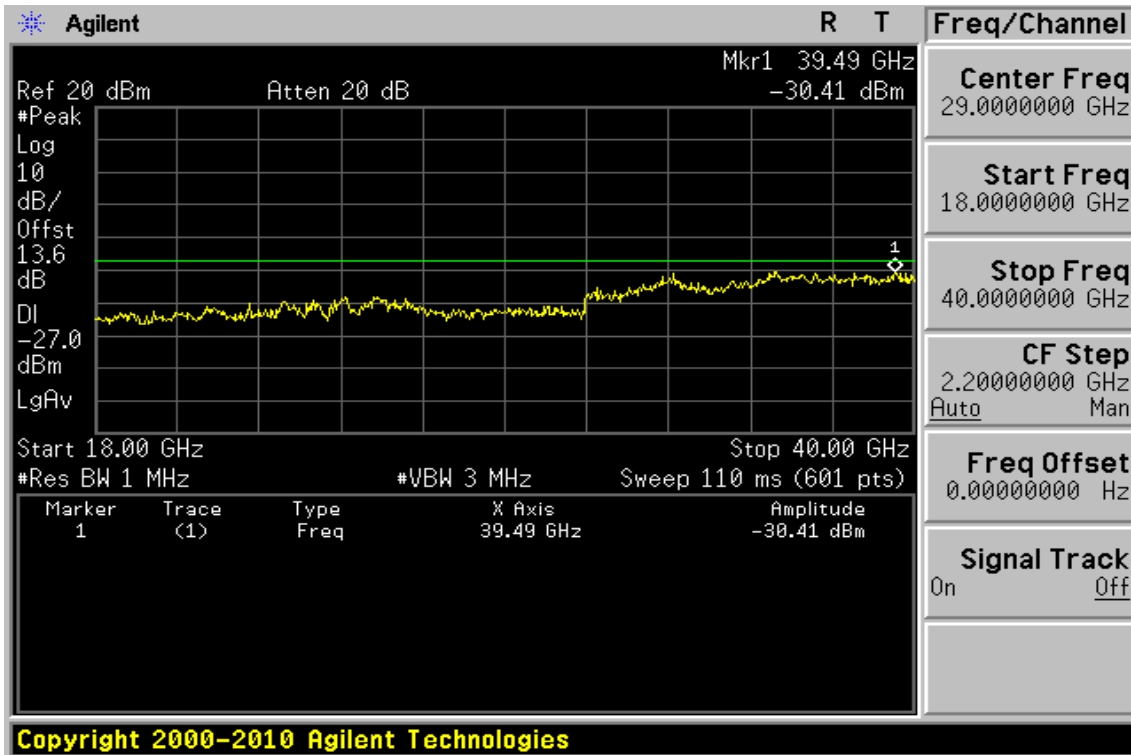
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**Ch Low 6GHz – 18GHz**



**Ch Low 18GHz – 40GHz**

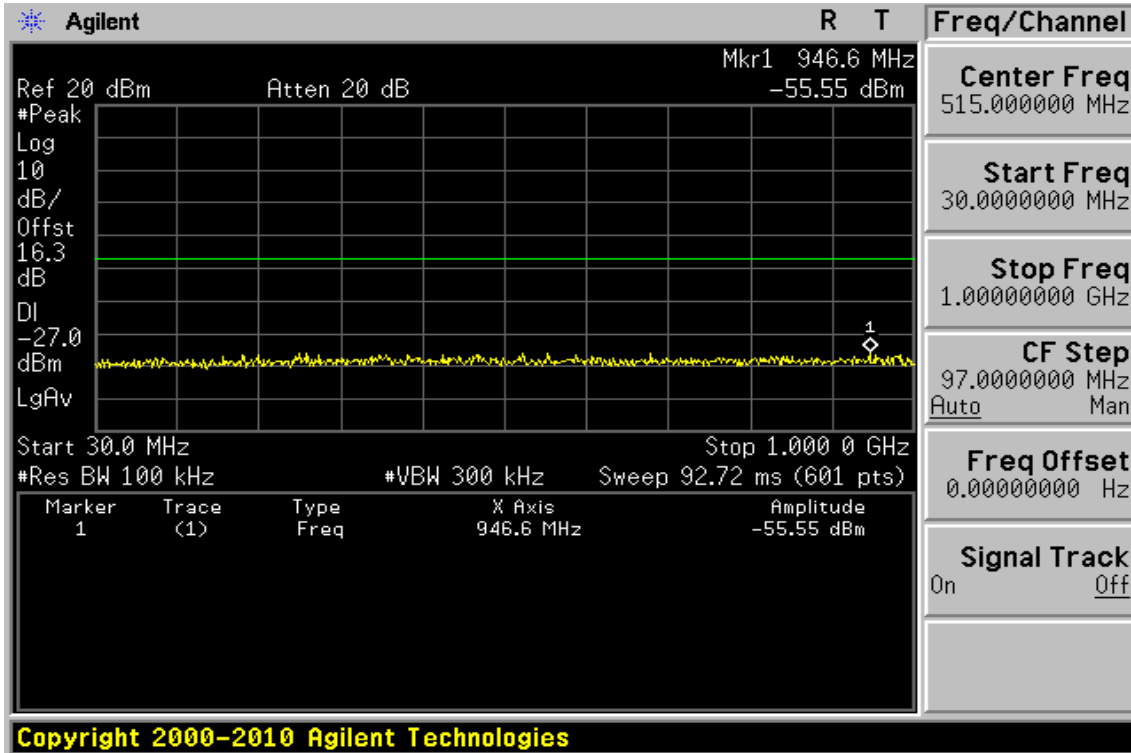


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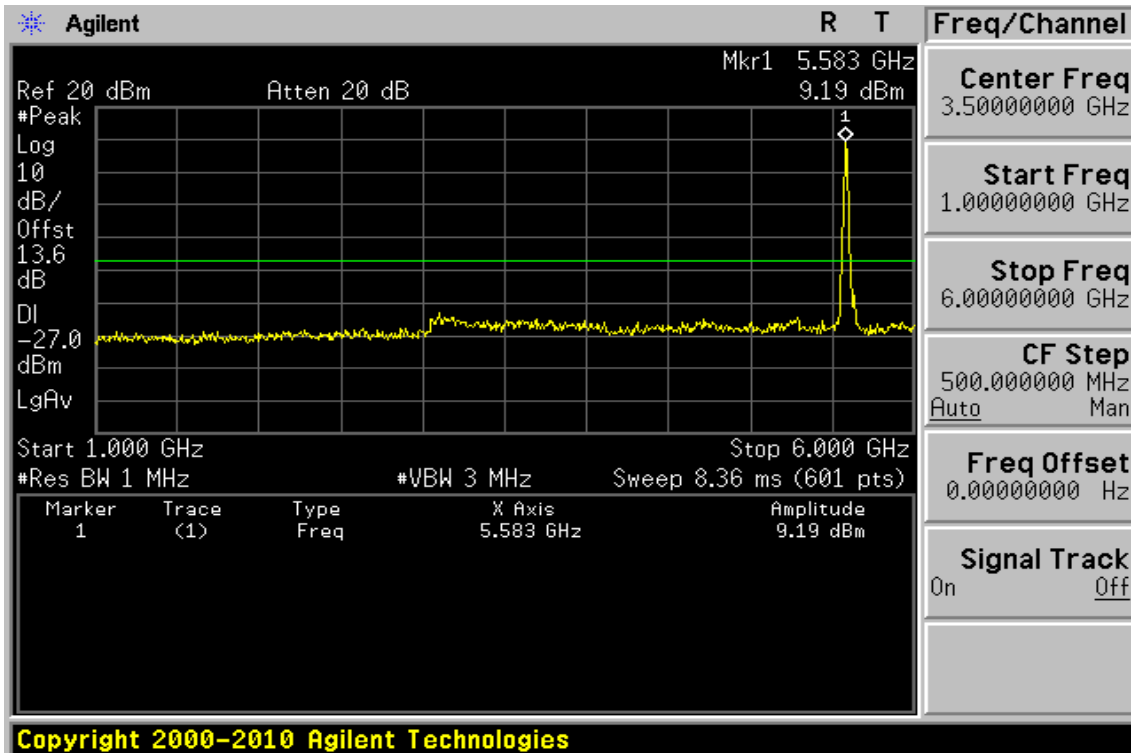
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Ch Mid 30MHz – 1GHz (5580 MHz)



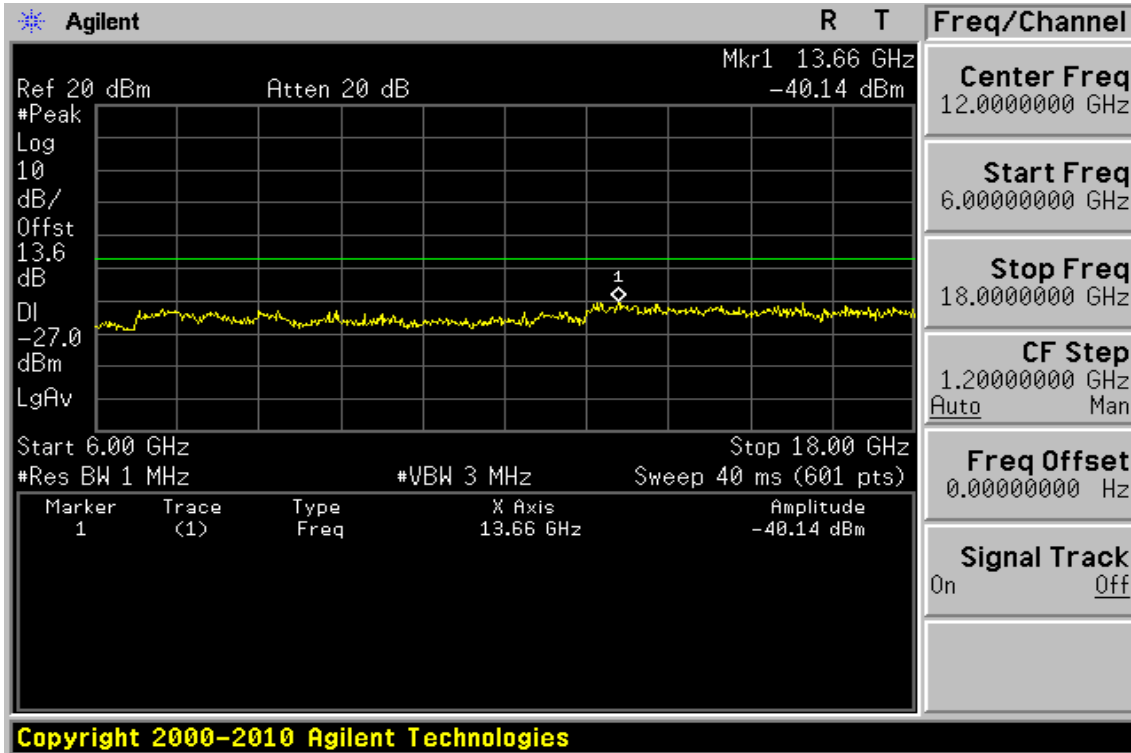
Ch Mid 1GHz – 6GHz



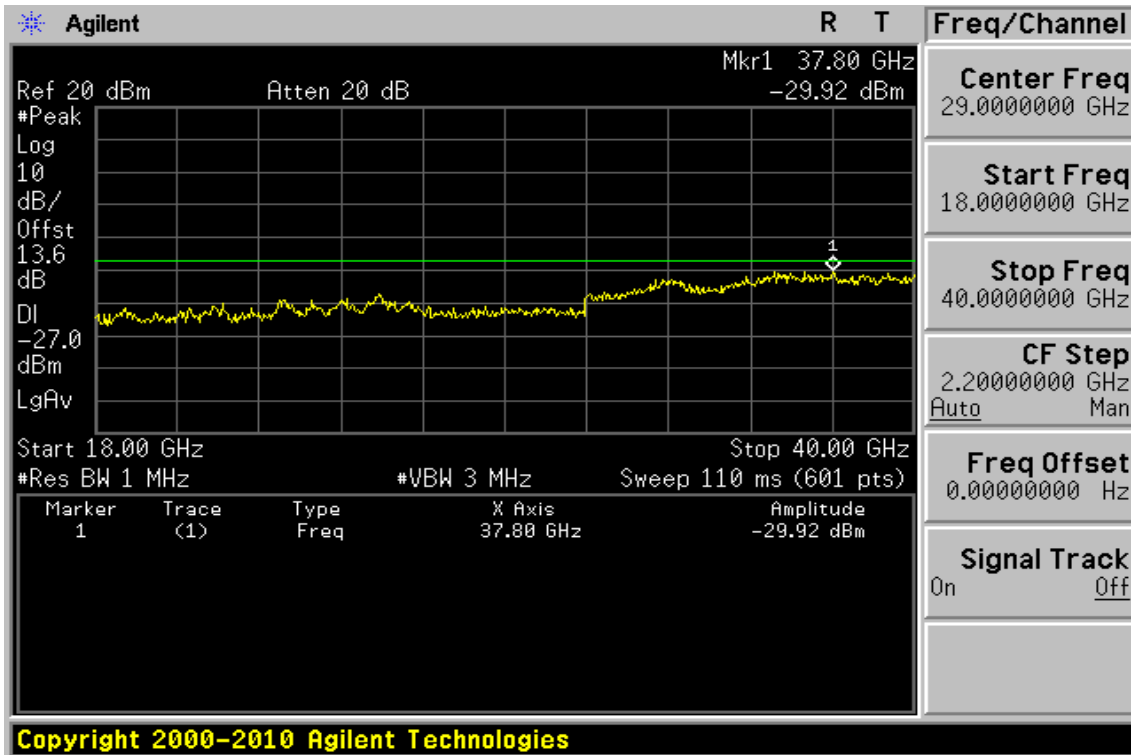
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Ch Mid 6GHz – 18GHz



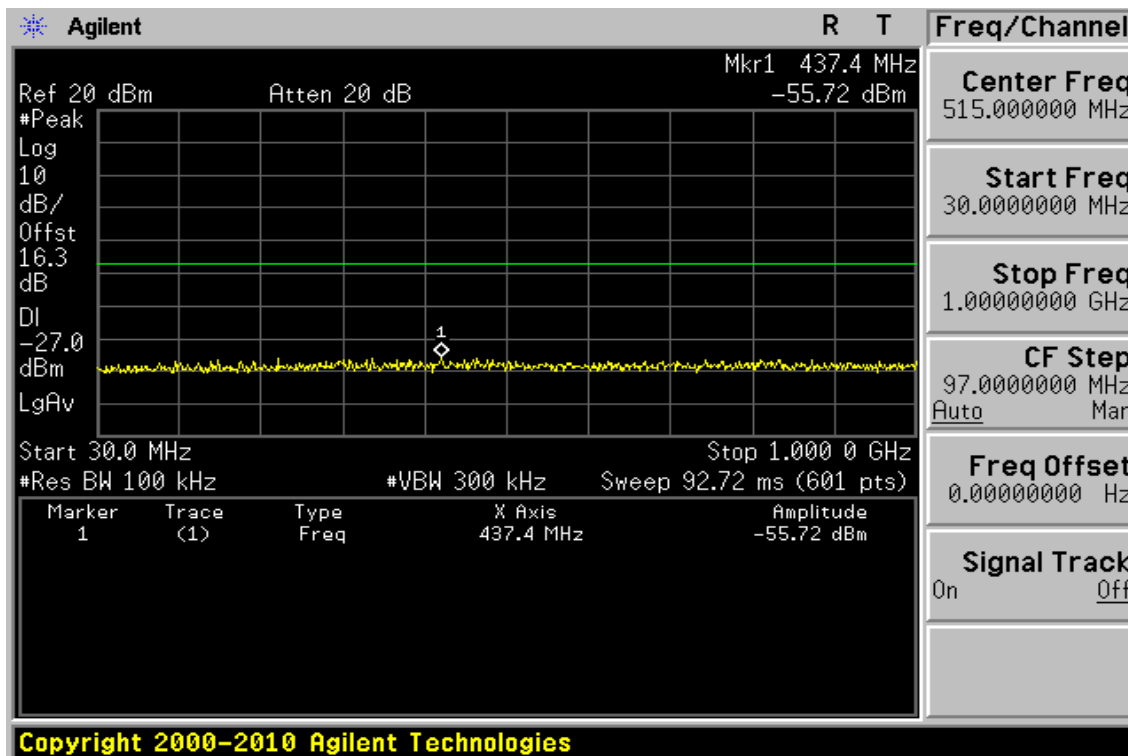
Ch Mid 18GHz – 40GHz



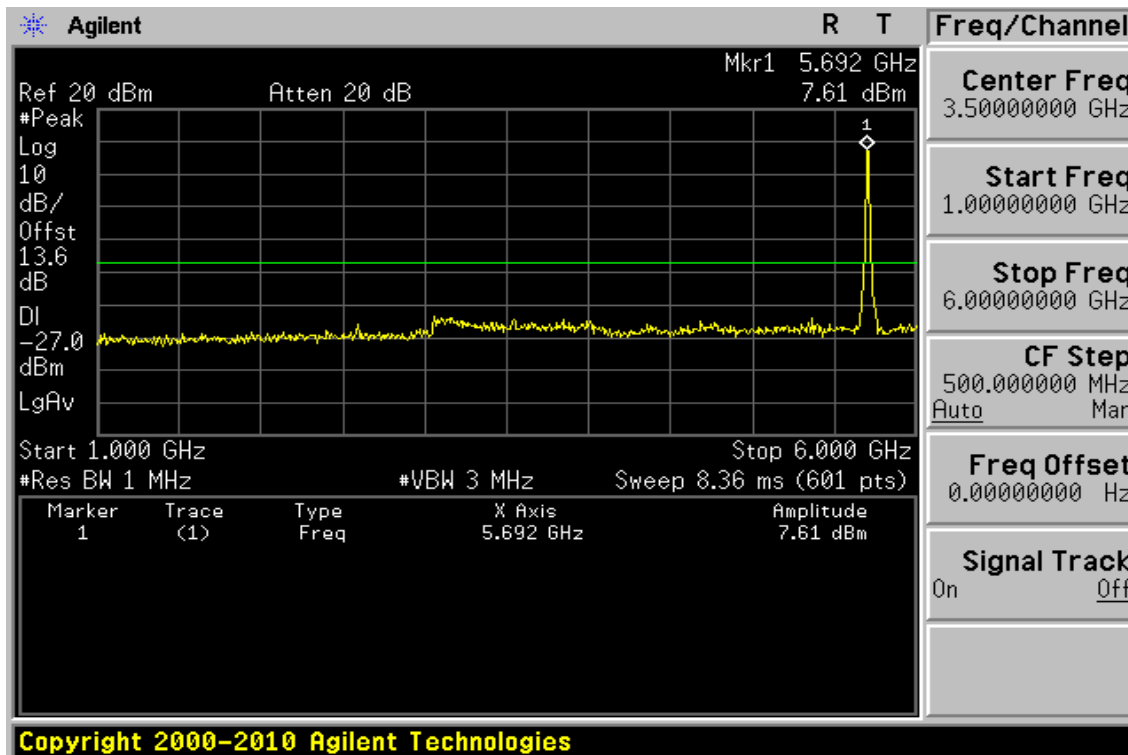
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### Ch High 30MHz – 1GHz (5700 MHz)



### Ch High 1MHz – 6GHz

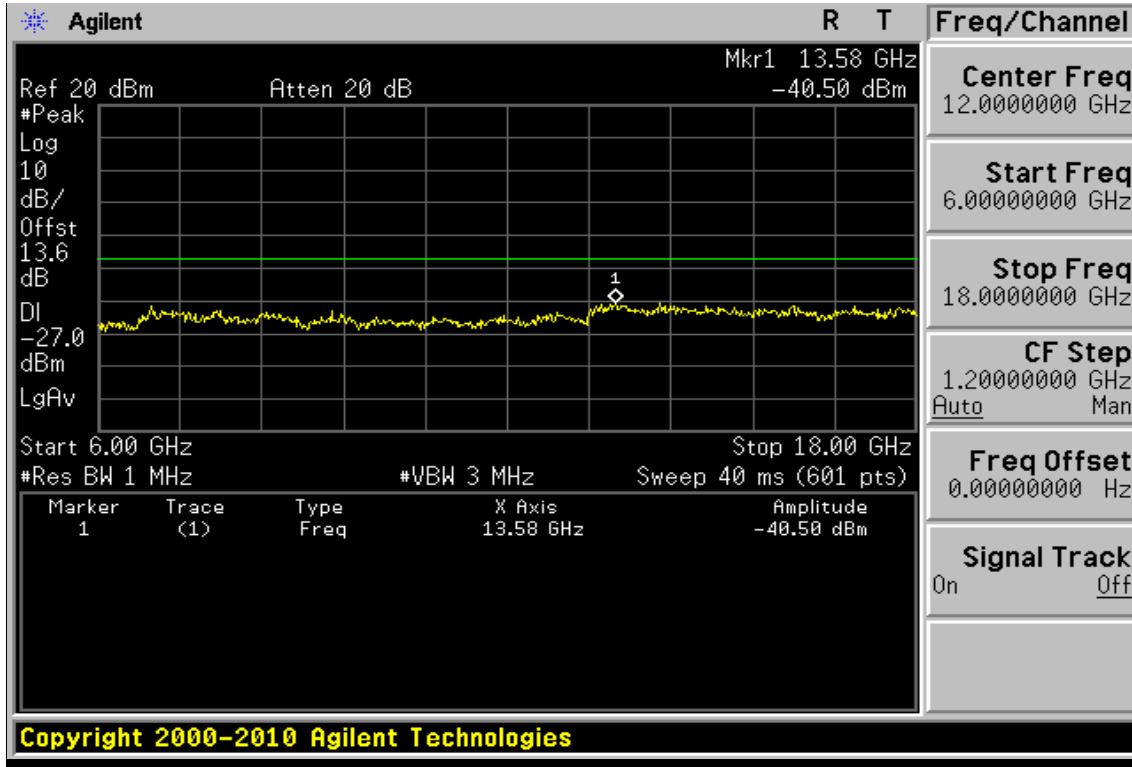


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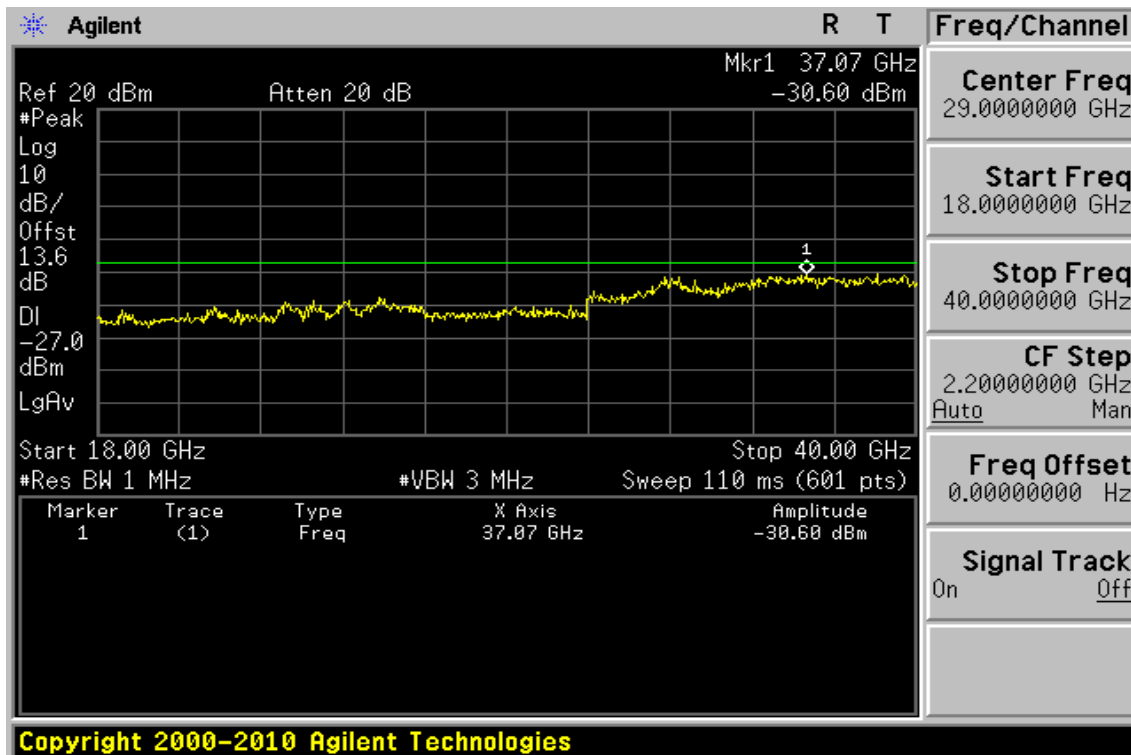
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### Ch High 6GHz – 18GHz



### Ch High 18GHz – 40GHz

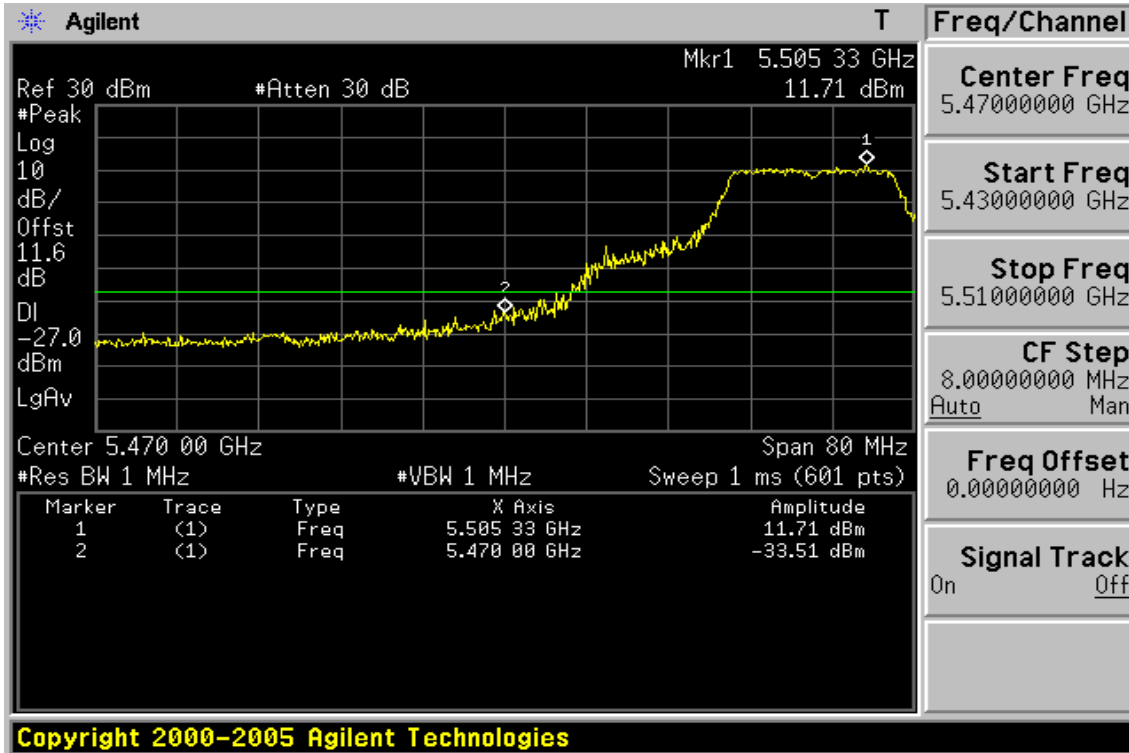


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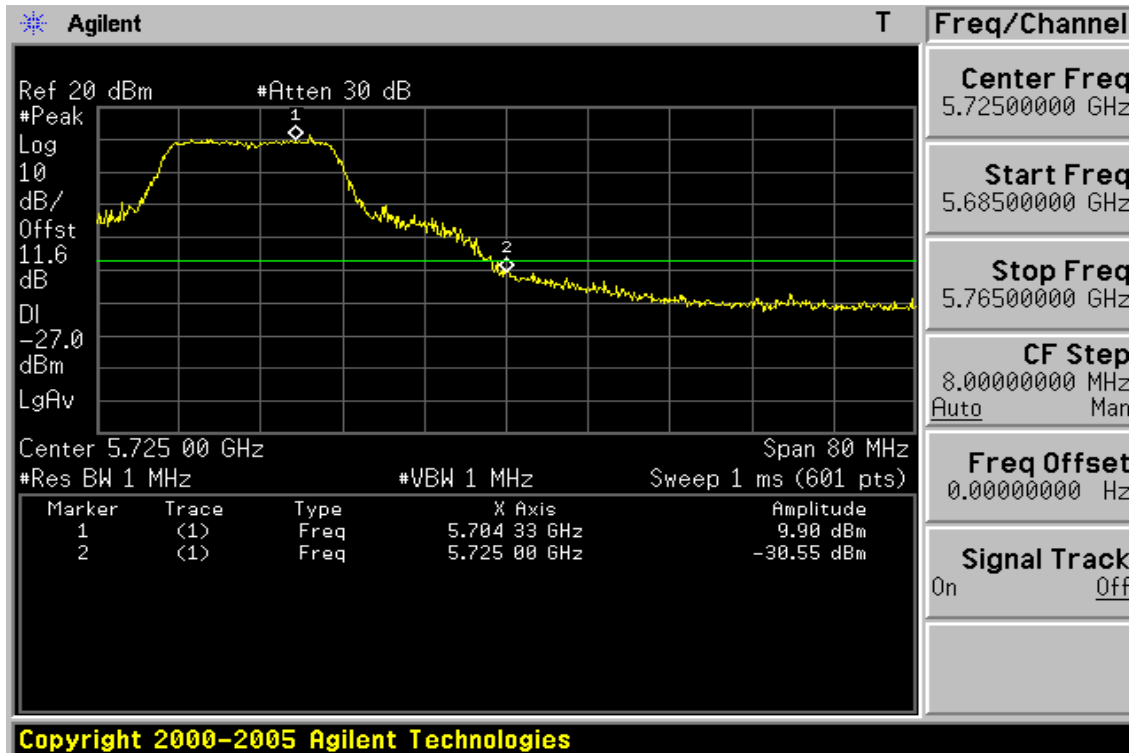
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### 802.11a 5470~5725 MHz Band Edges Test Data CH 5500



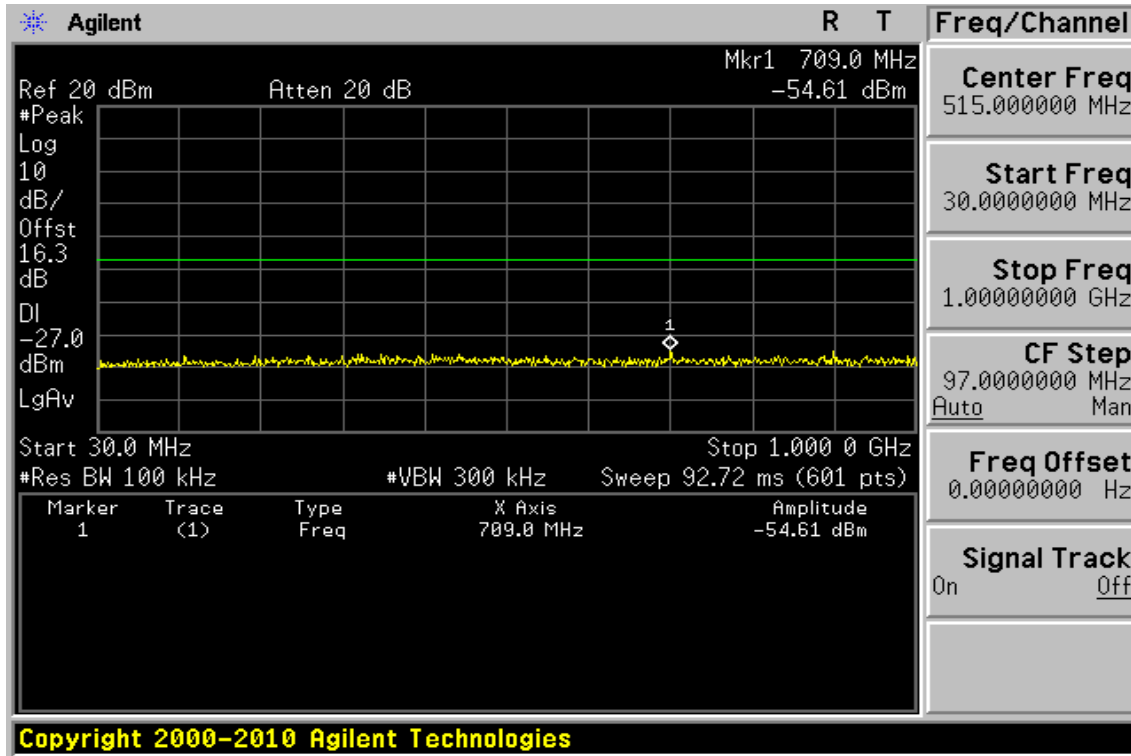
### 802.11a 5470~5725 MHz Band Edges Test Data CH 5700



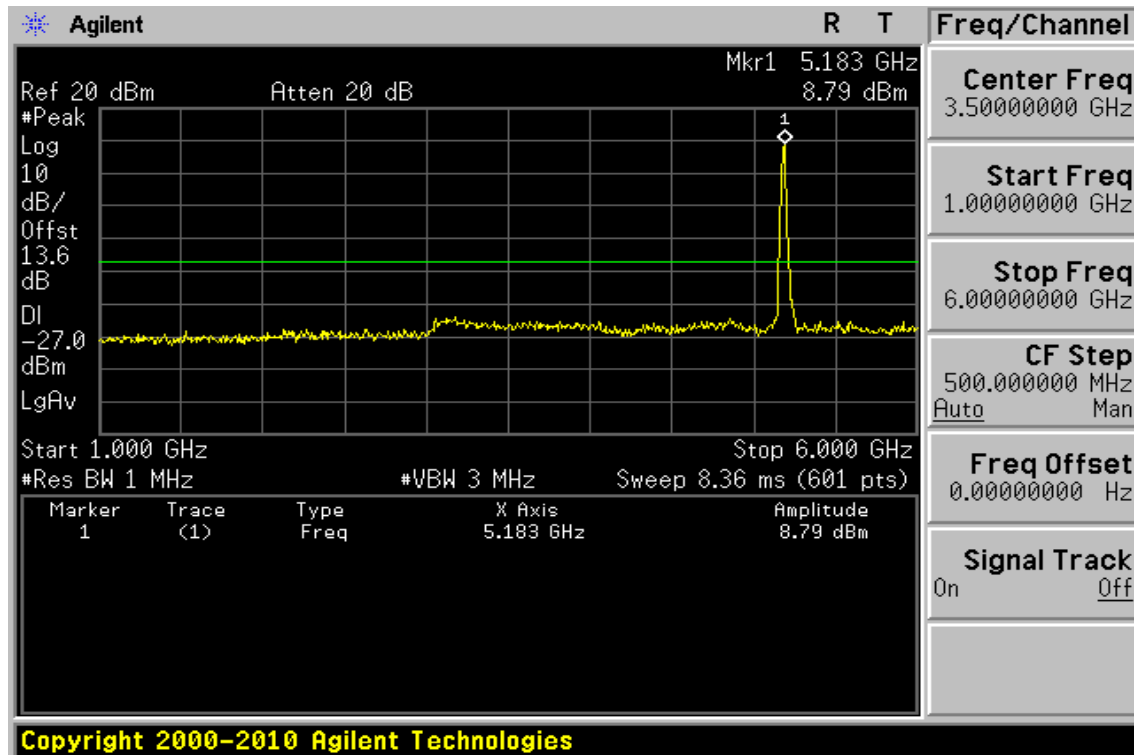
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**802.11n HT20, 5150~5250 MHz**  
**Ch Low 30MHz – 1GHz (5180 MHz)**



**Ch Low 1GHz – 6GHz**

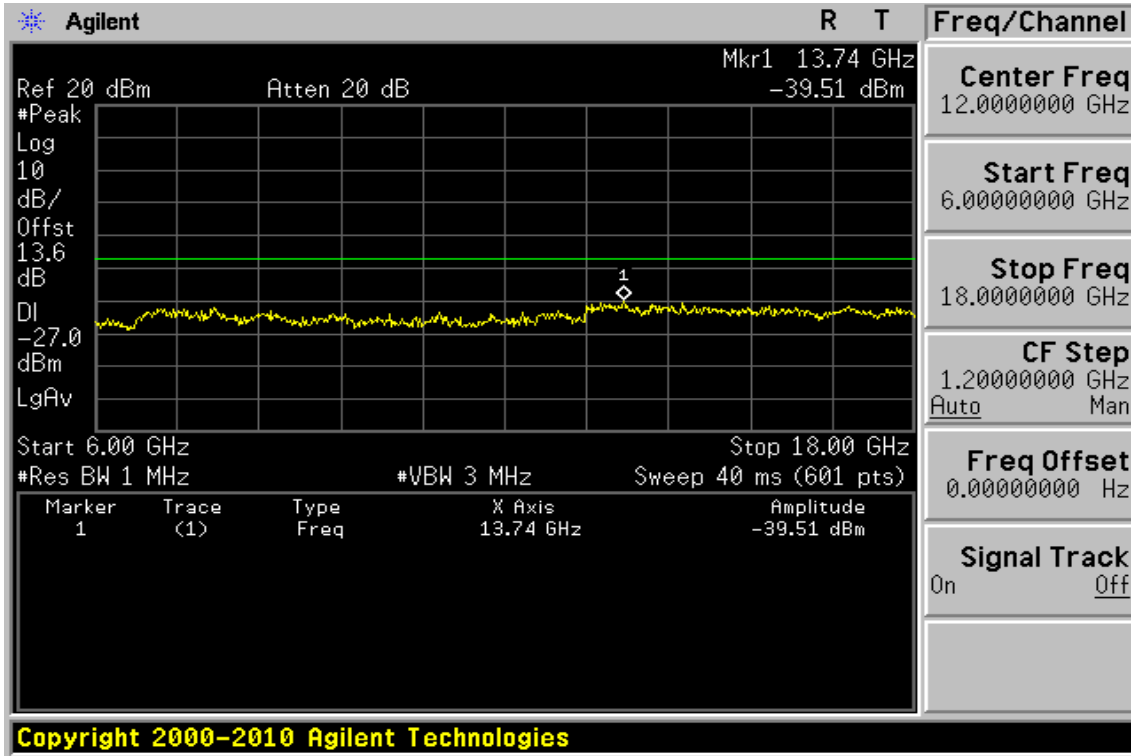


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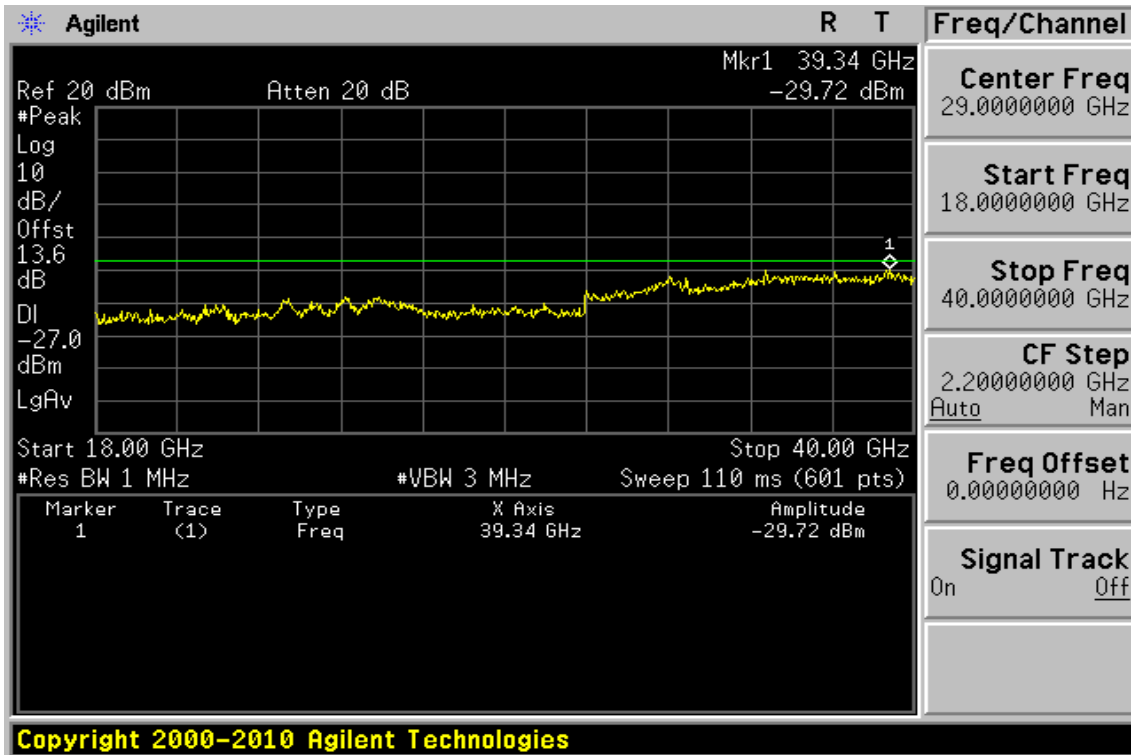
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**Ch Low 6GHz – 18GHz**



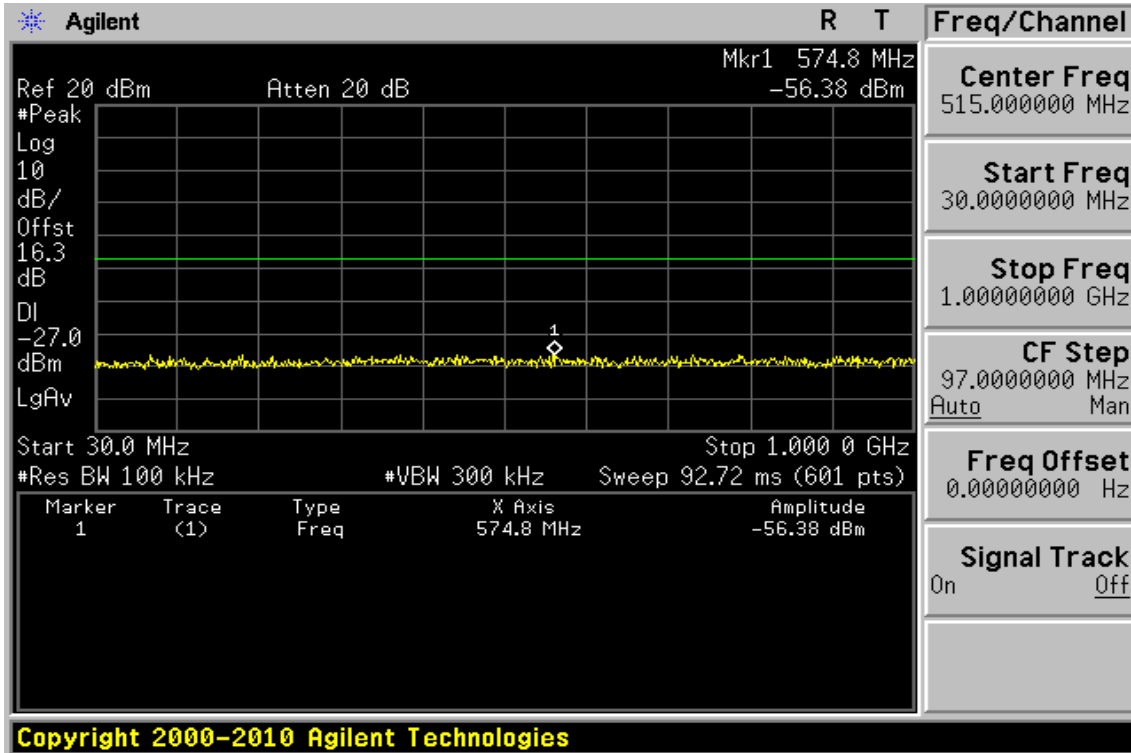
**Ch Low 18GHz – 40GHz**



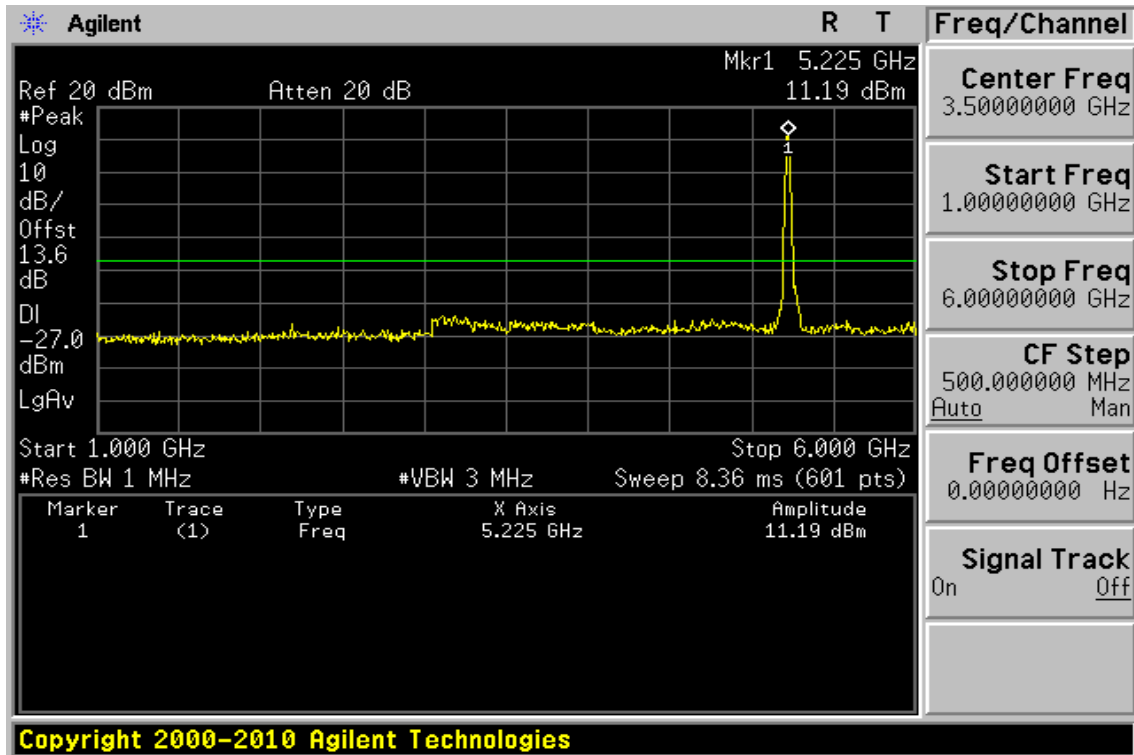
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**Ch Mid 30MHz – 1GHz (5220 MHz)**



**Ch Mid 1MHz – 6GHz**



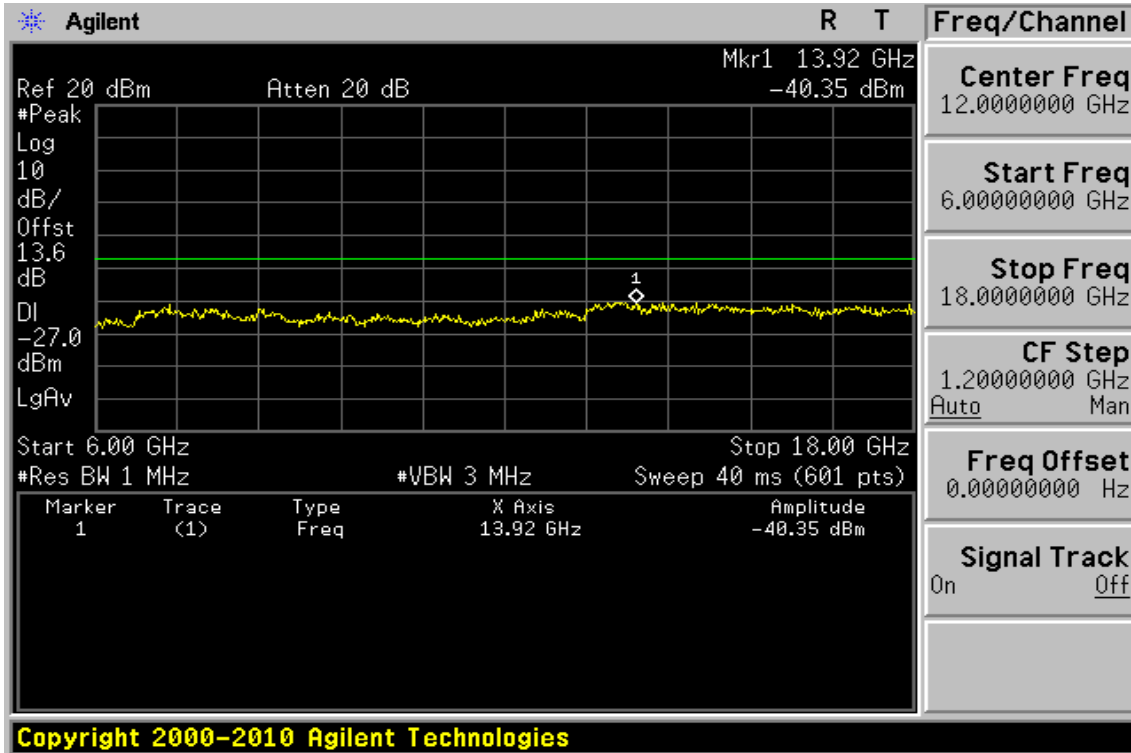
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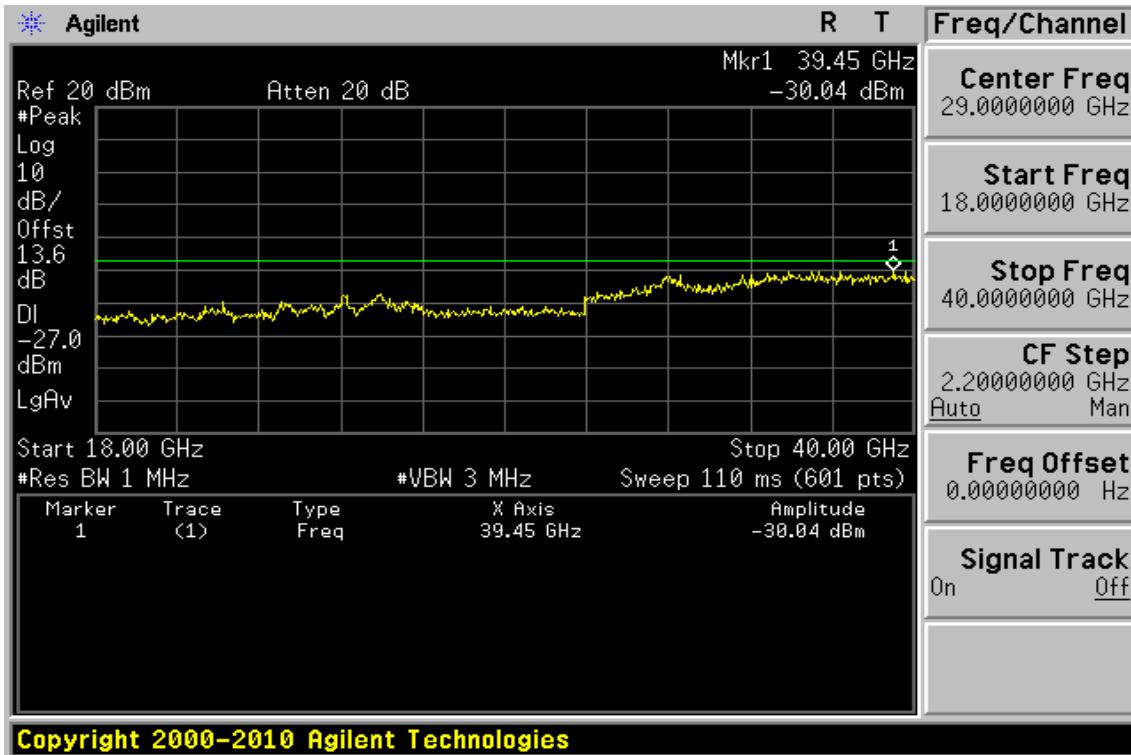
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Ch Mid 6GHz – 18GHz



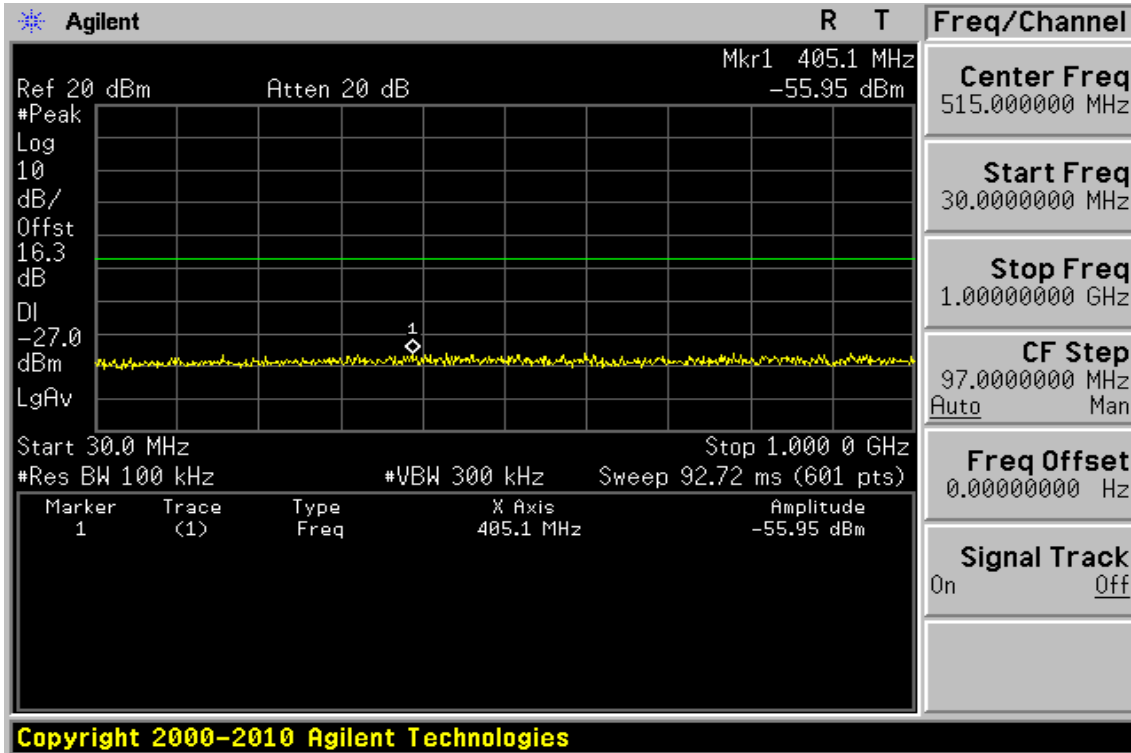
Ch Mid 18GHz – 40GHz



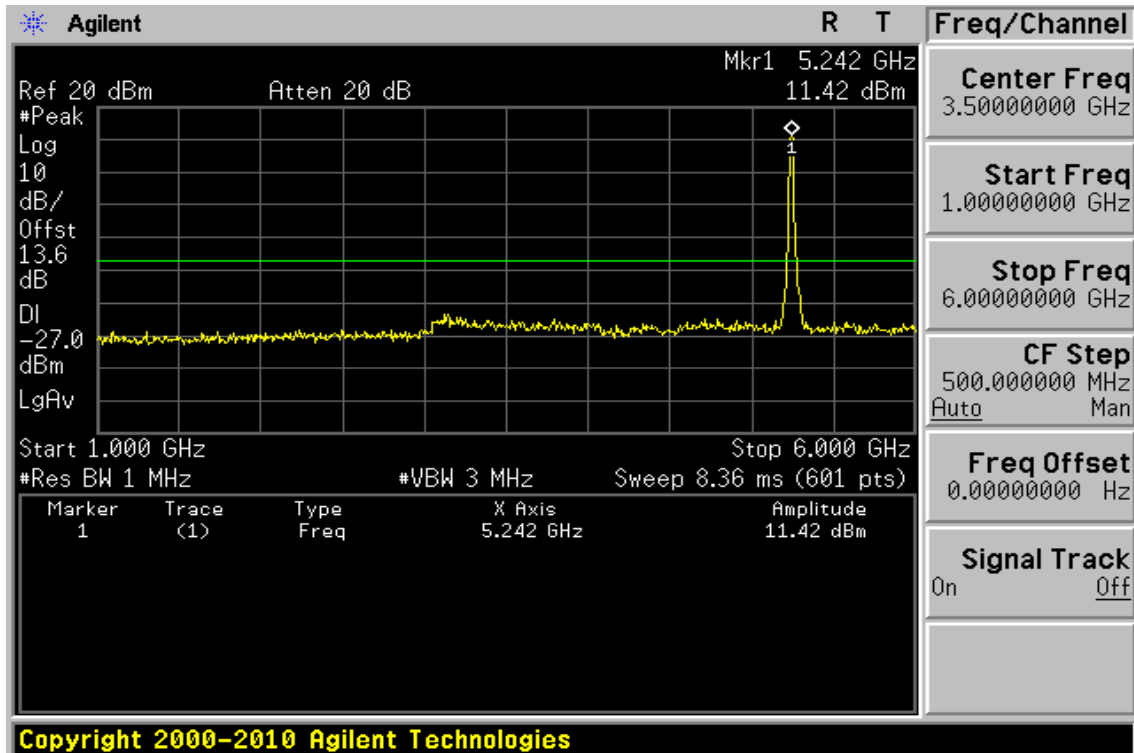
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Ch High 30MHz – 1GHz (5240 MHz)



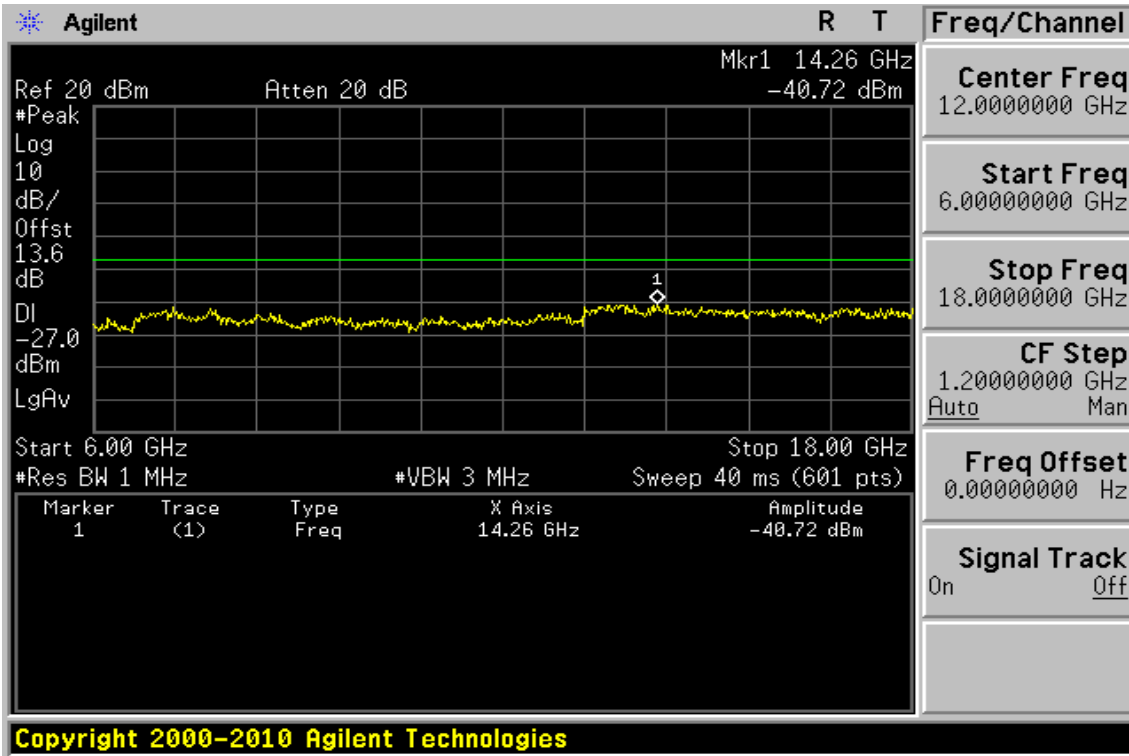
Ch High 30MHz – 1GHz



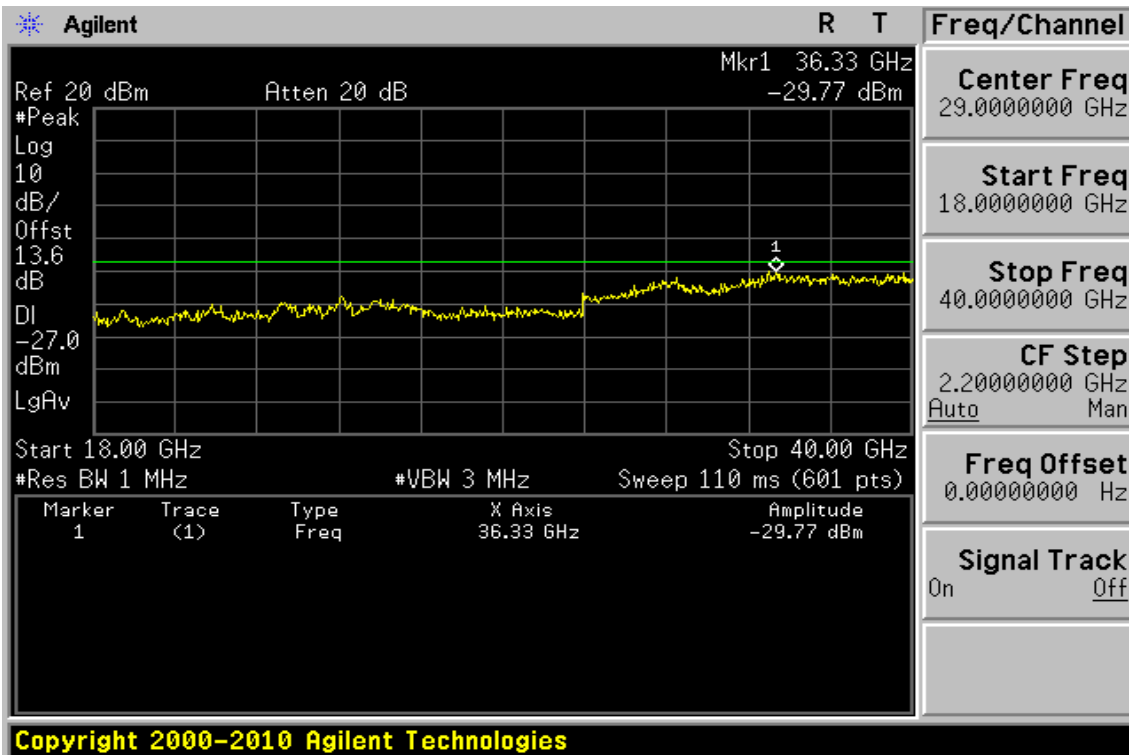
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### Ch High 6GHz – 18GHz



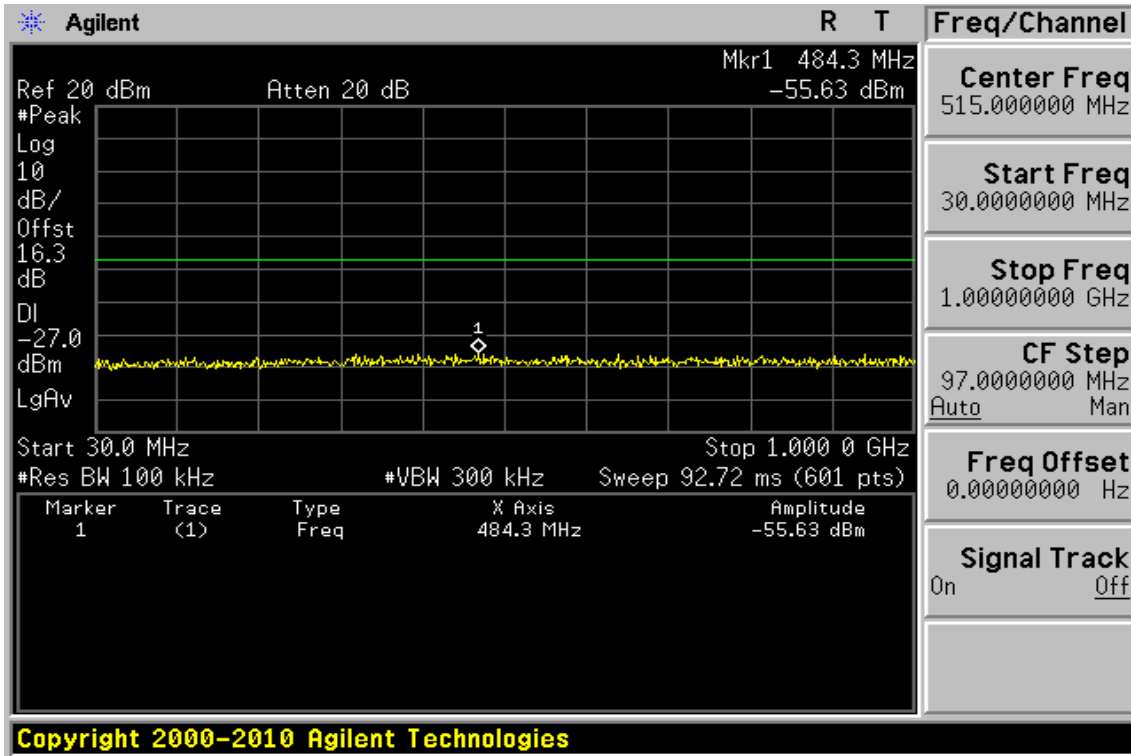
### Ch High 18GHz – 40GHz



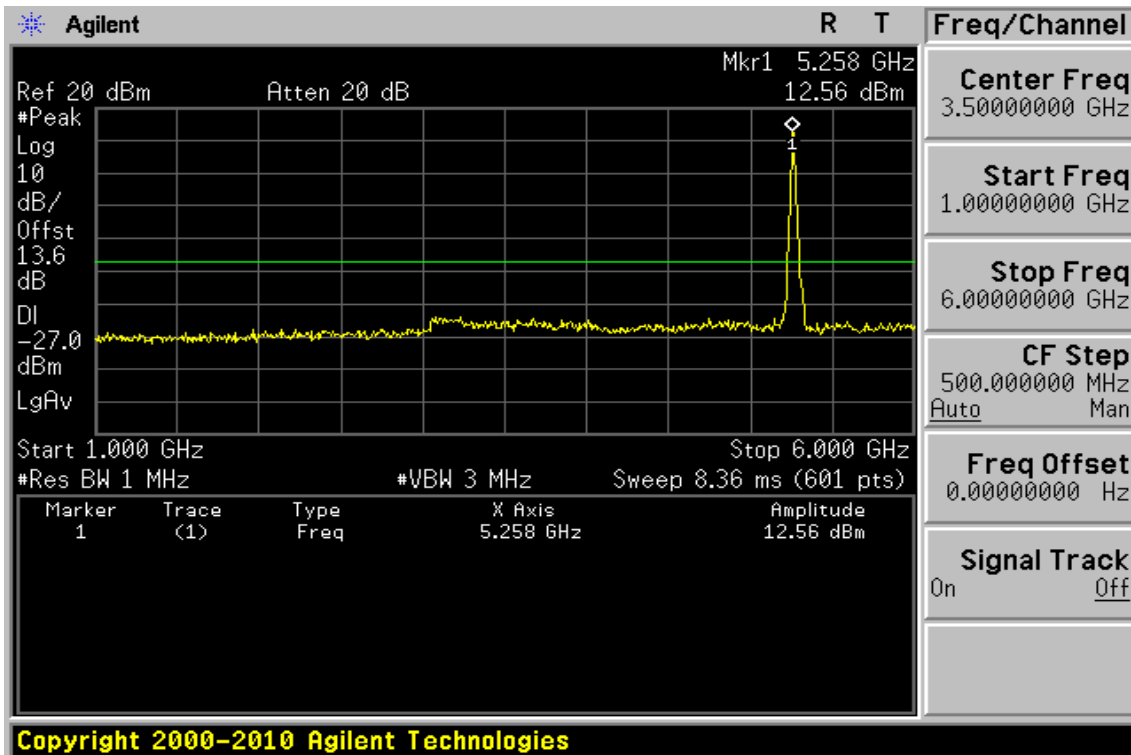
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**802.11n HT20, 5250~5350 MHz**  
**Ch Low 30MHz – 1GHz (5260 MHz)**



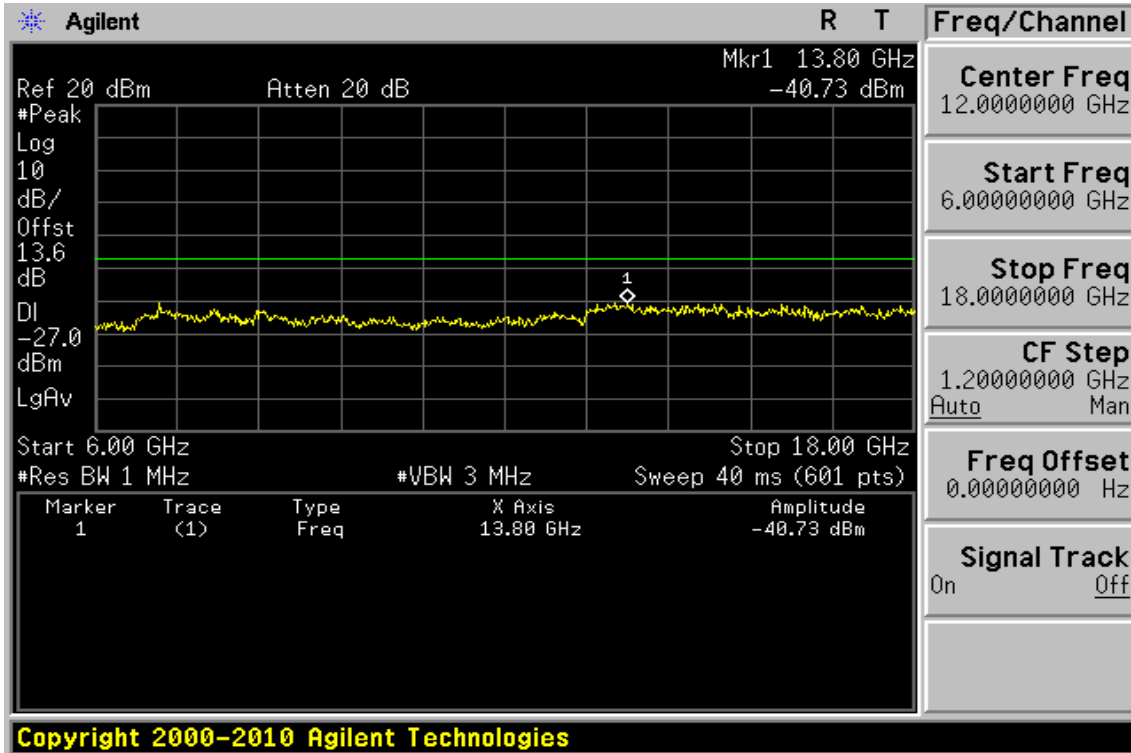
**Ch Low 1GHz – 6GHz**



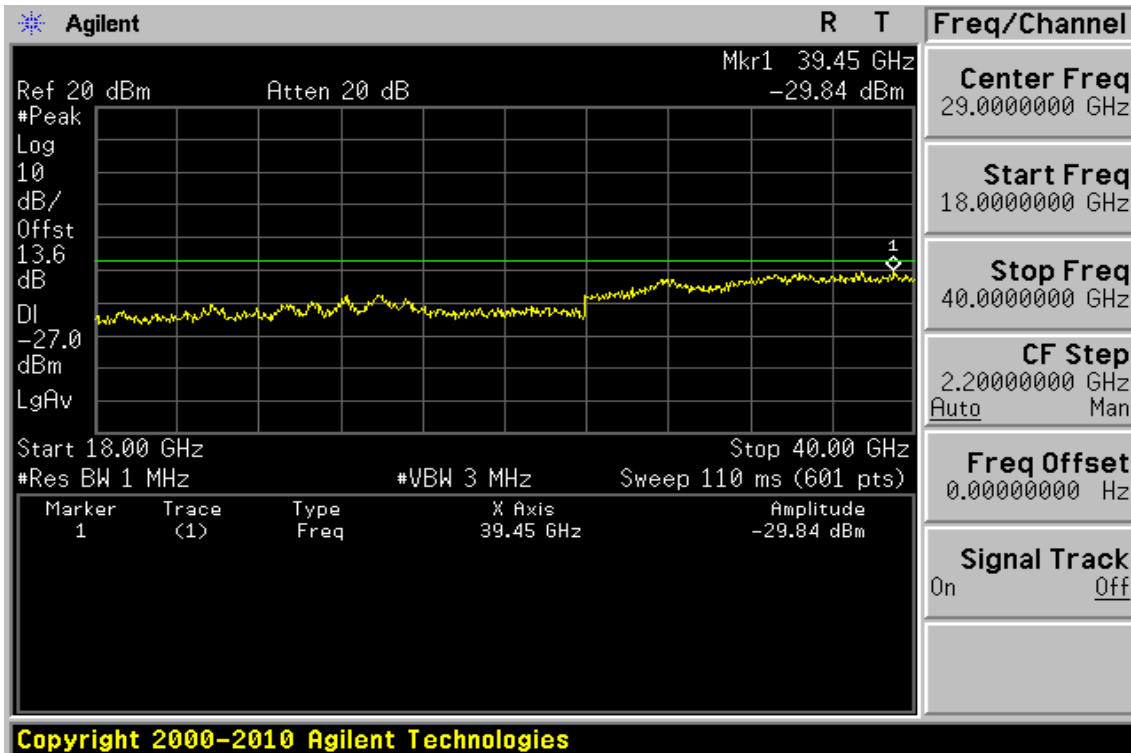
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### Ch Low 6GHz – 18GHz



### Ch Low 18GHz – 40GHz

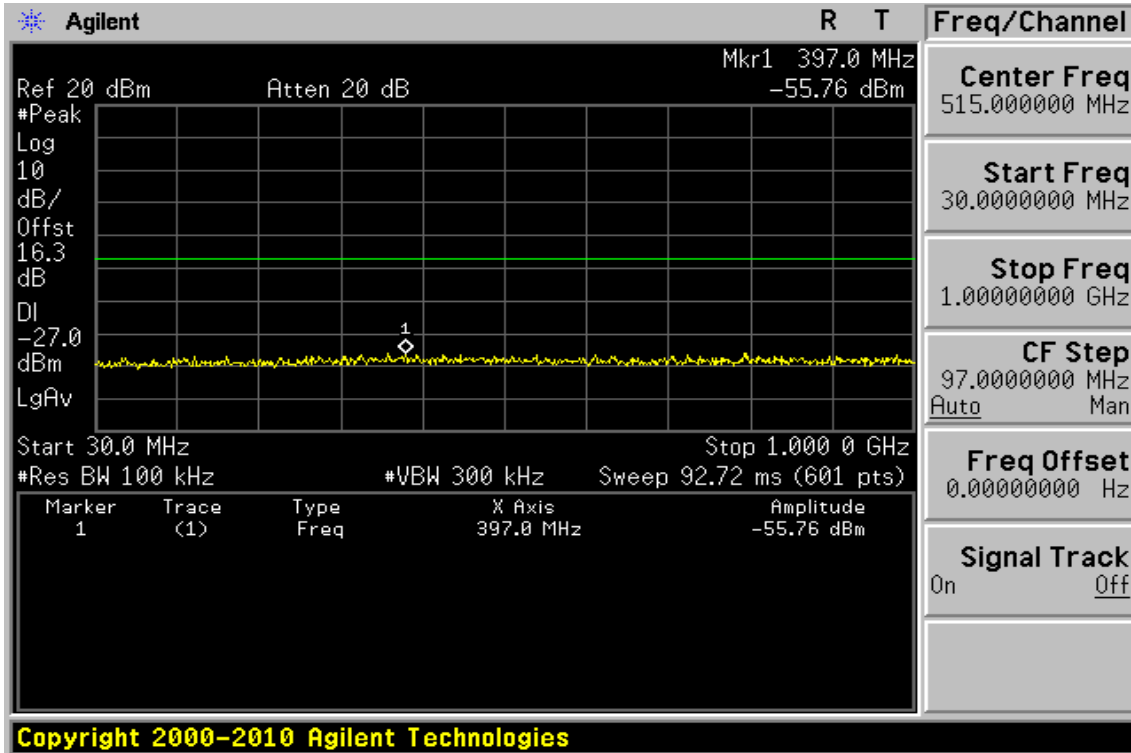


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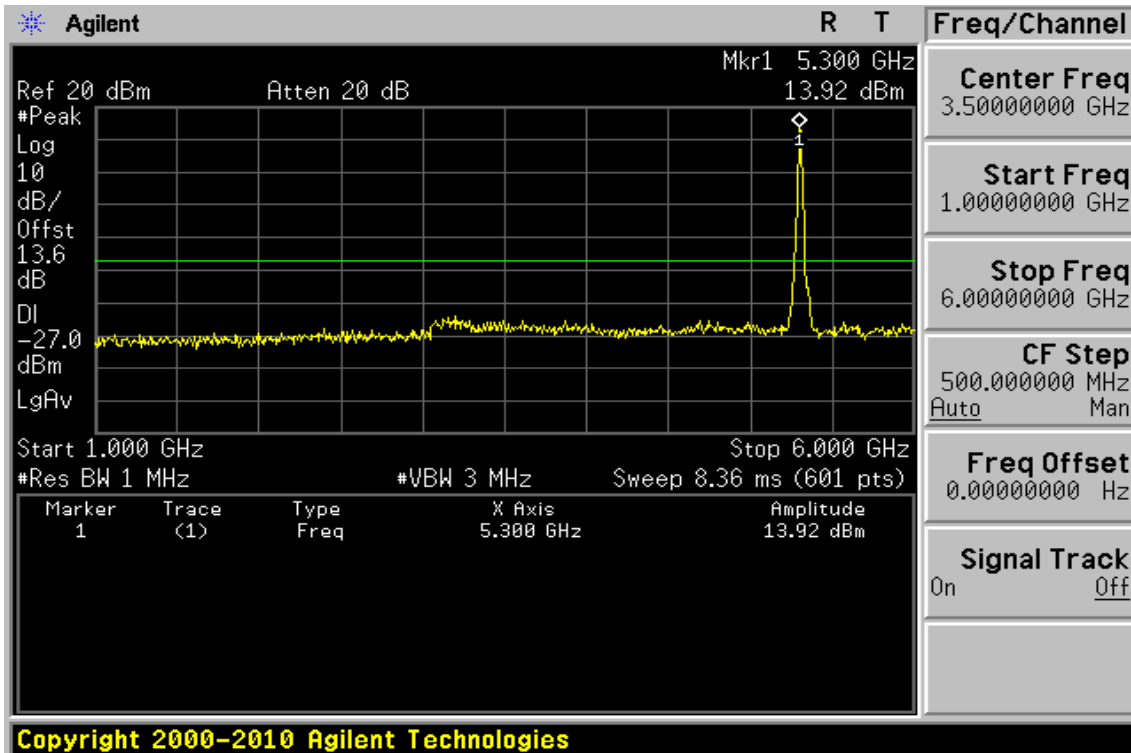
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Ch Mid 30MHz – 1GHz (5300 MHz)



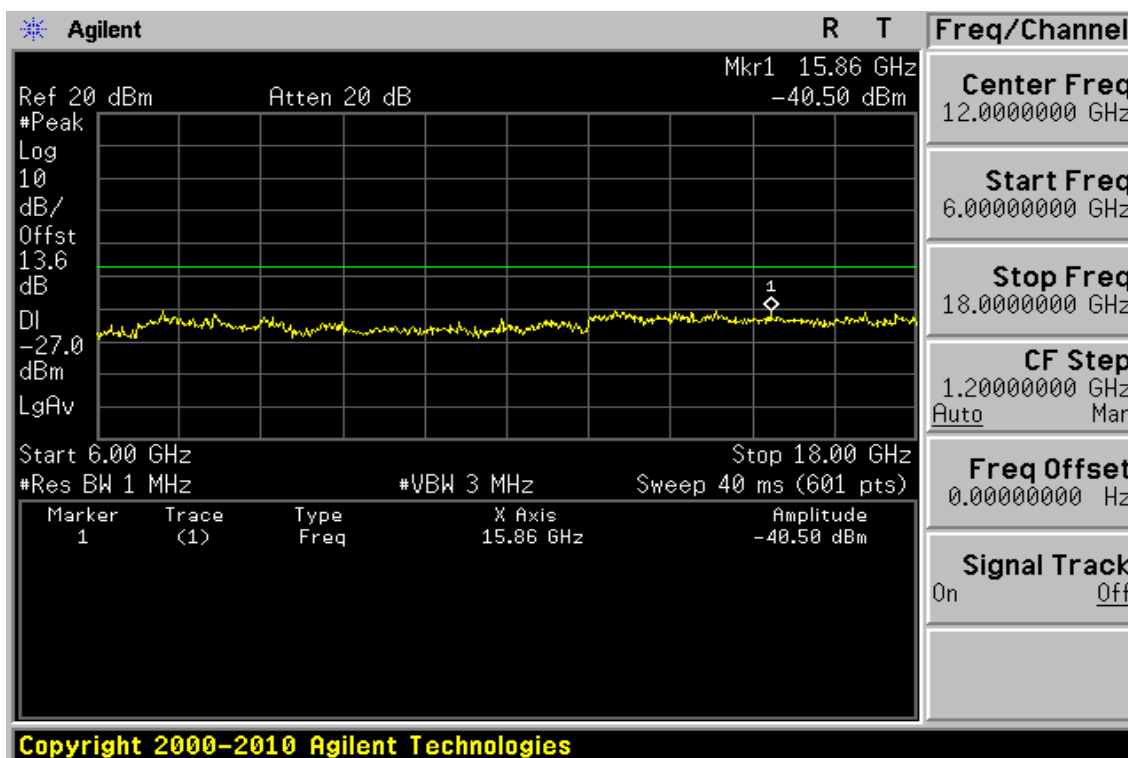
Ch Mid 1GHz – 6GHz



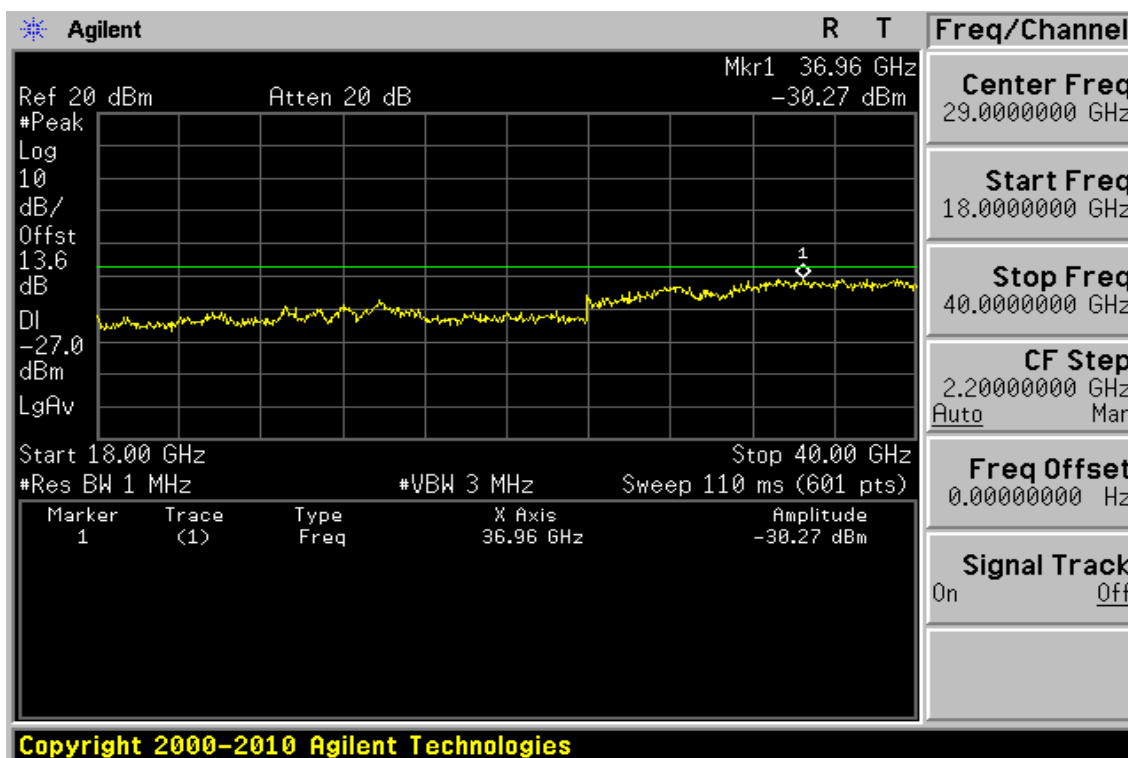
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### Ch Mid 6GHz – 18GHz



### Ch Mid 18GHz – 40GHz

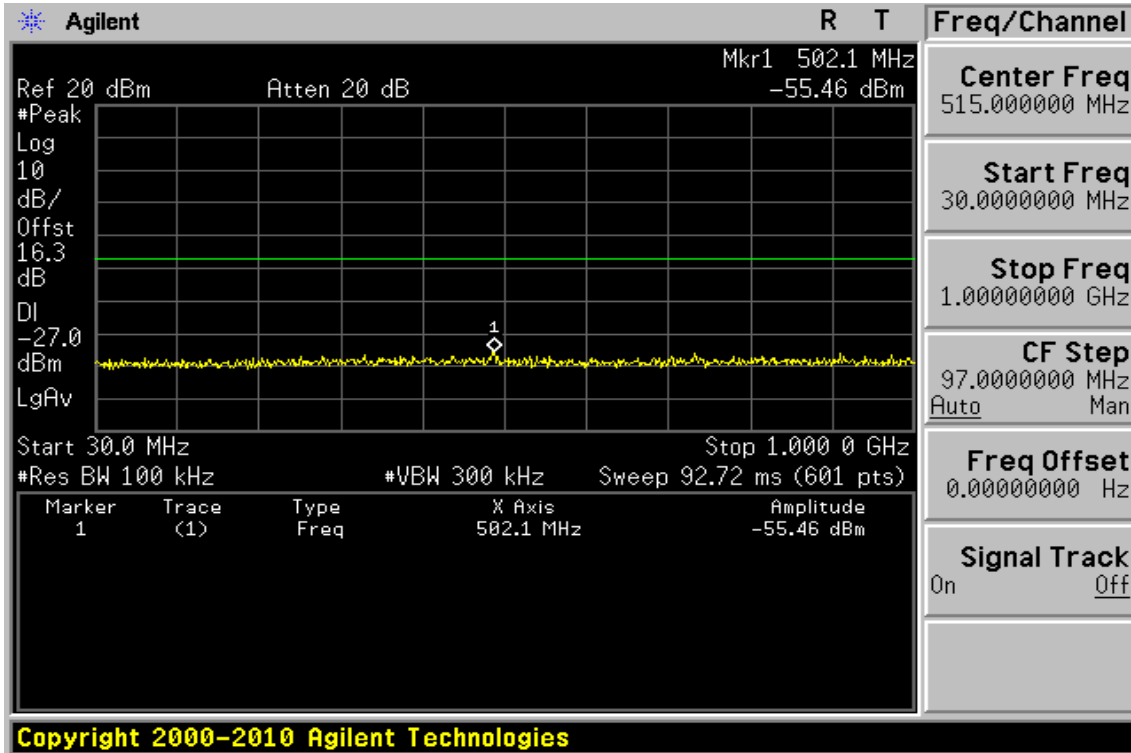


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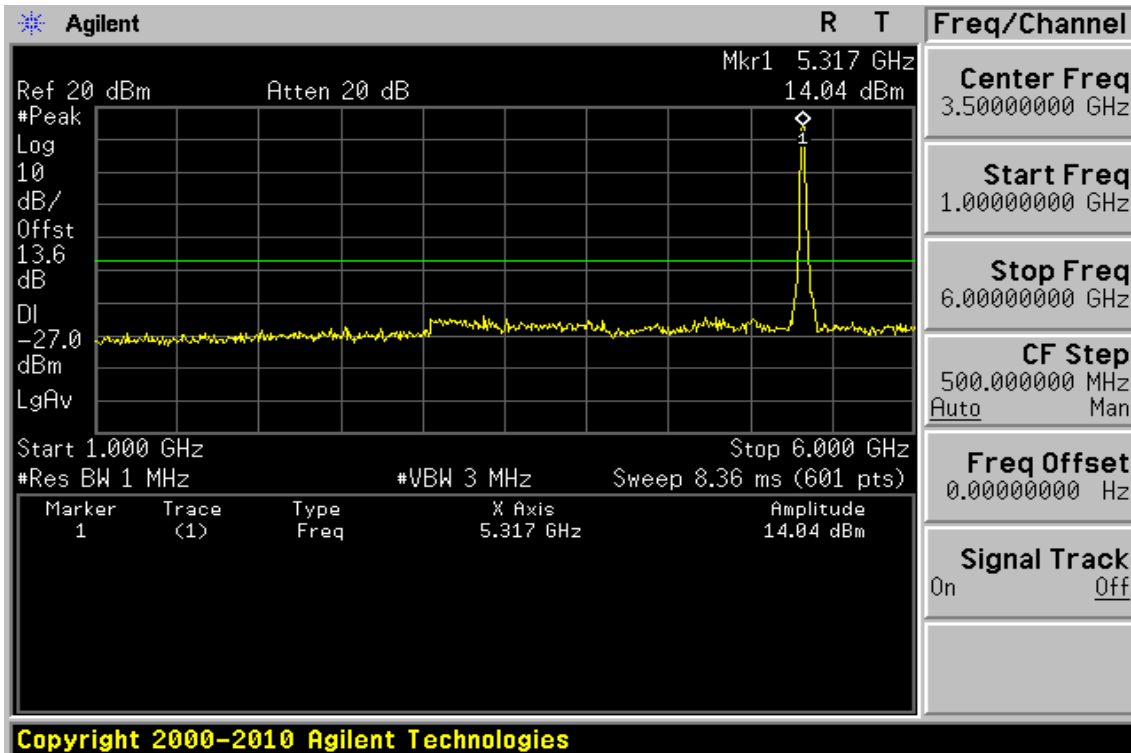
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### Ch High 30MHz – 1GHz (5320 MHz)



### Ch High 1GHz – 6GHz



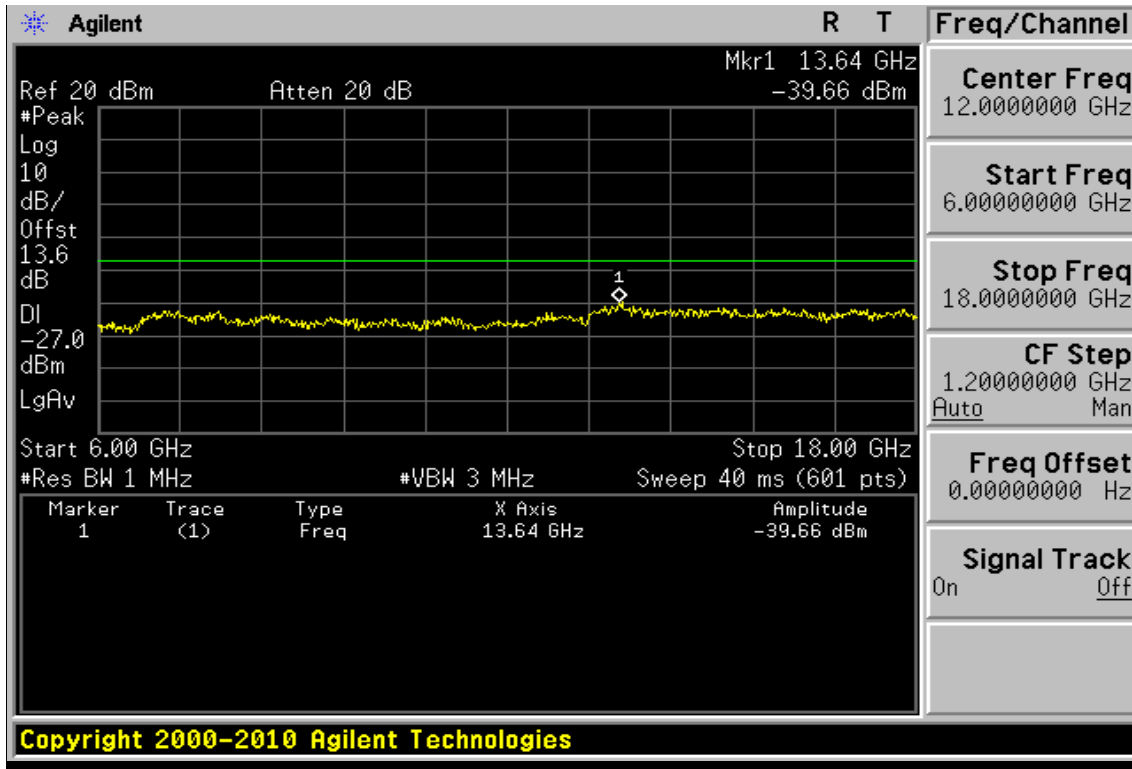
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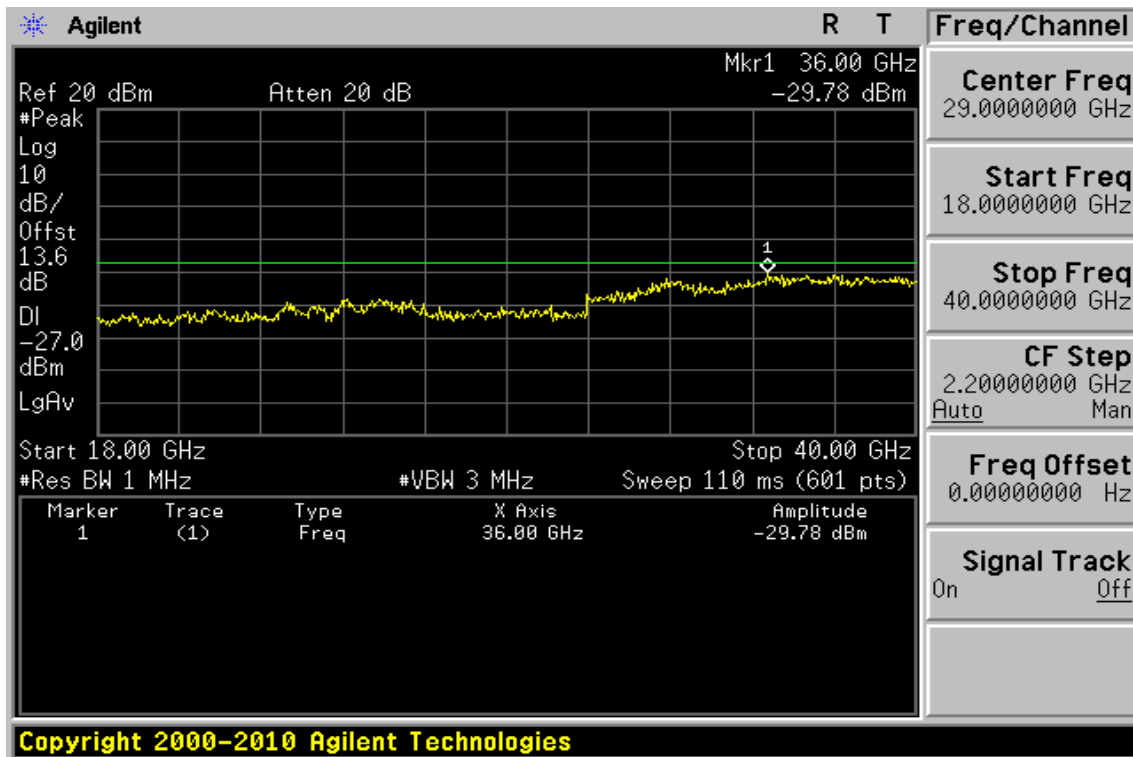
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### Ch High 6GHz – 18GHz



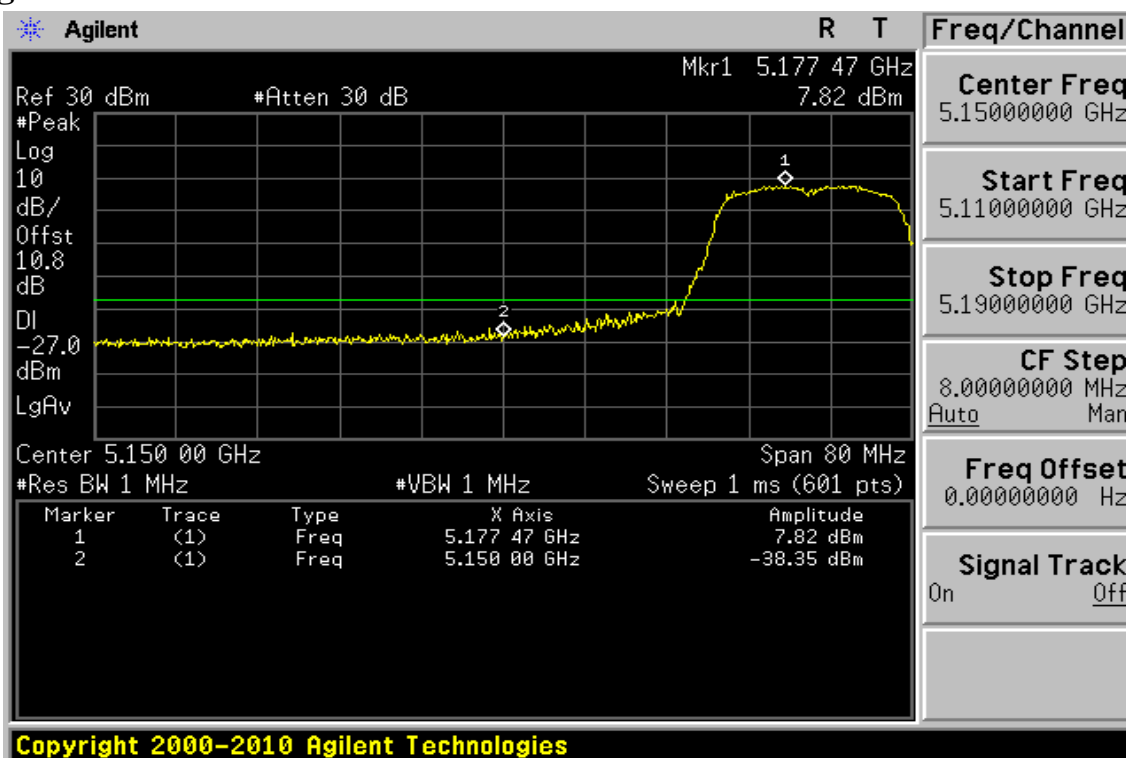
### Ch High 18GHz – 40GHz



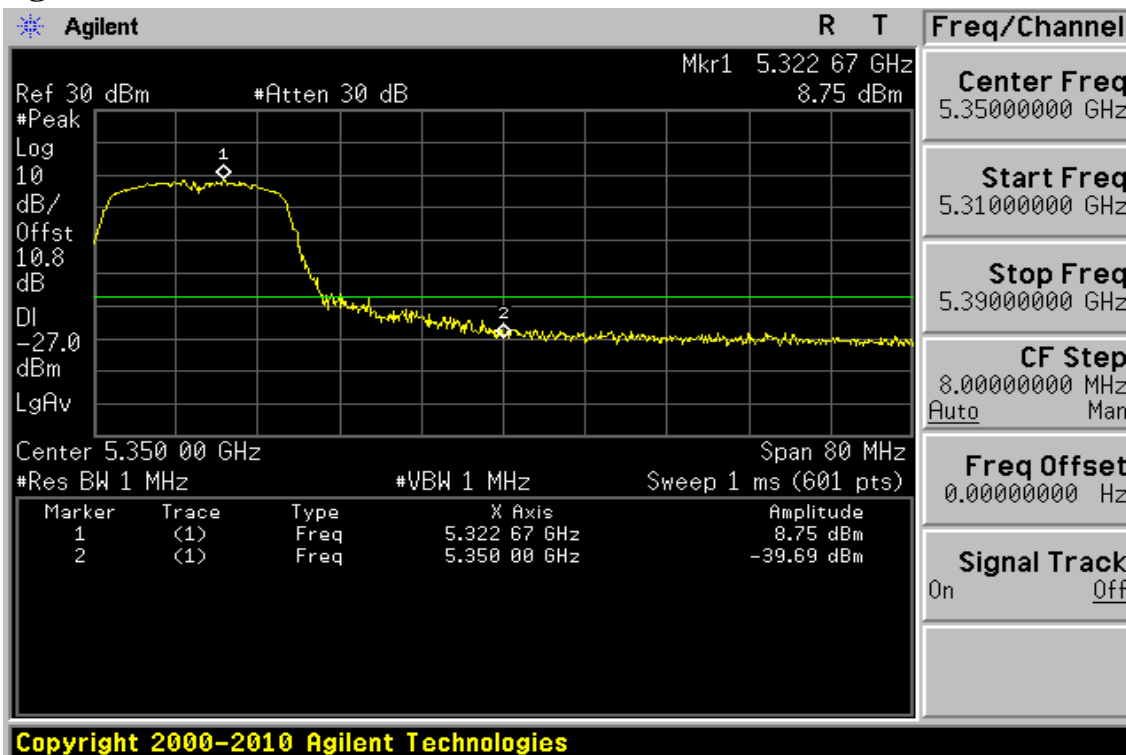
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### 802.11n HT20 5150~5350 MHz Band Edges Test Data CH 5150



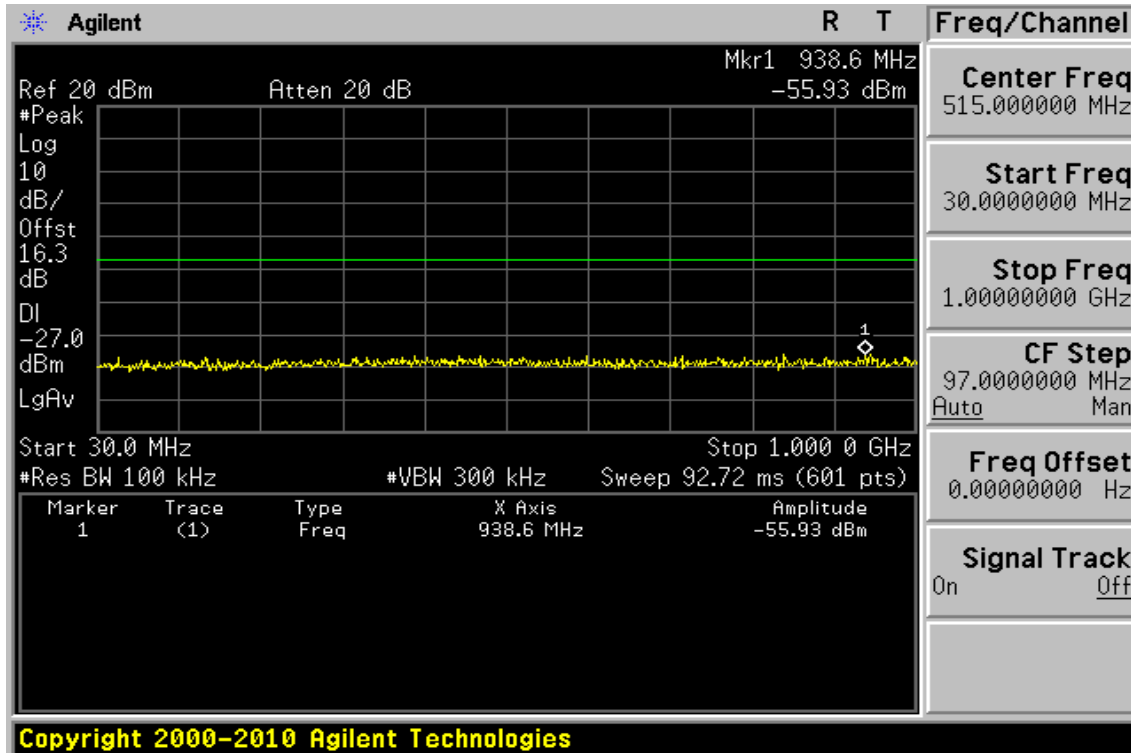
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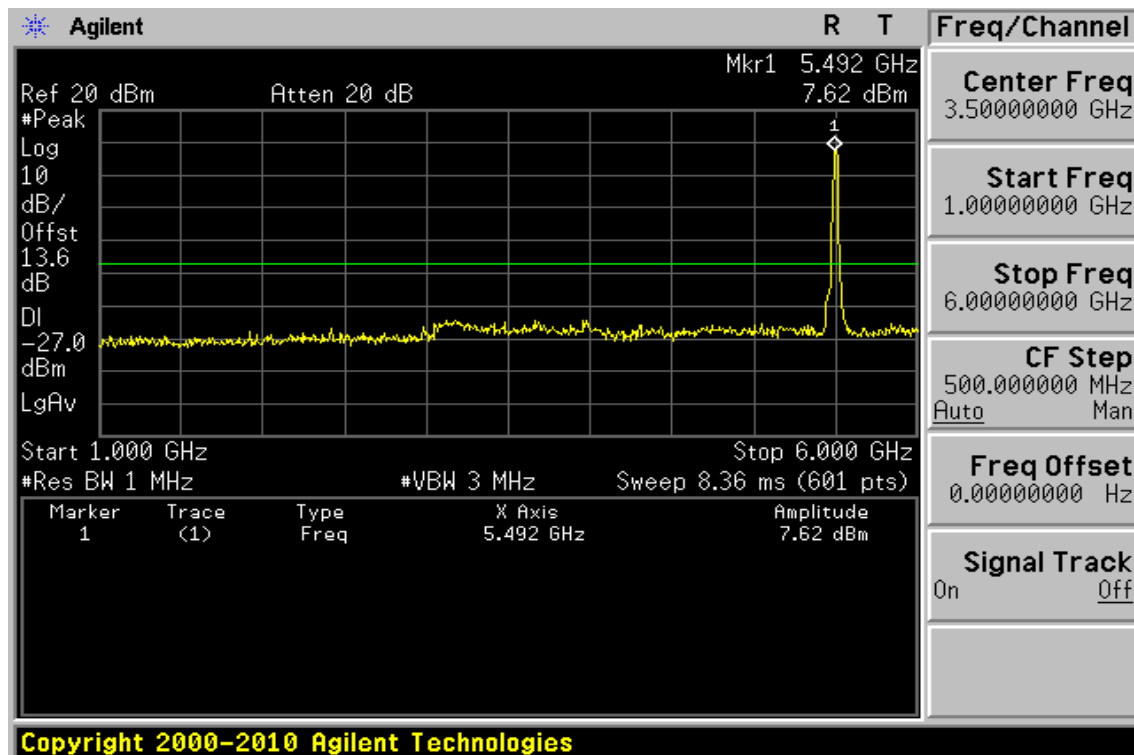
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**802.11n HT20, 5470~5725 MHz**  
**Ch Low 30MHz – 1GHz (5500 MHz)**



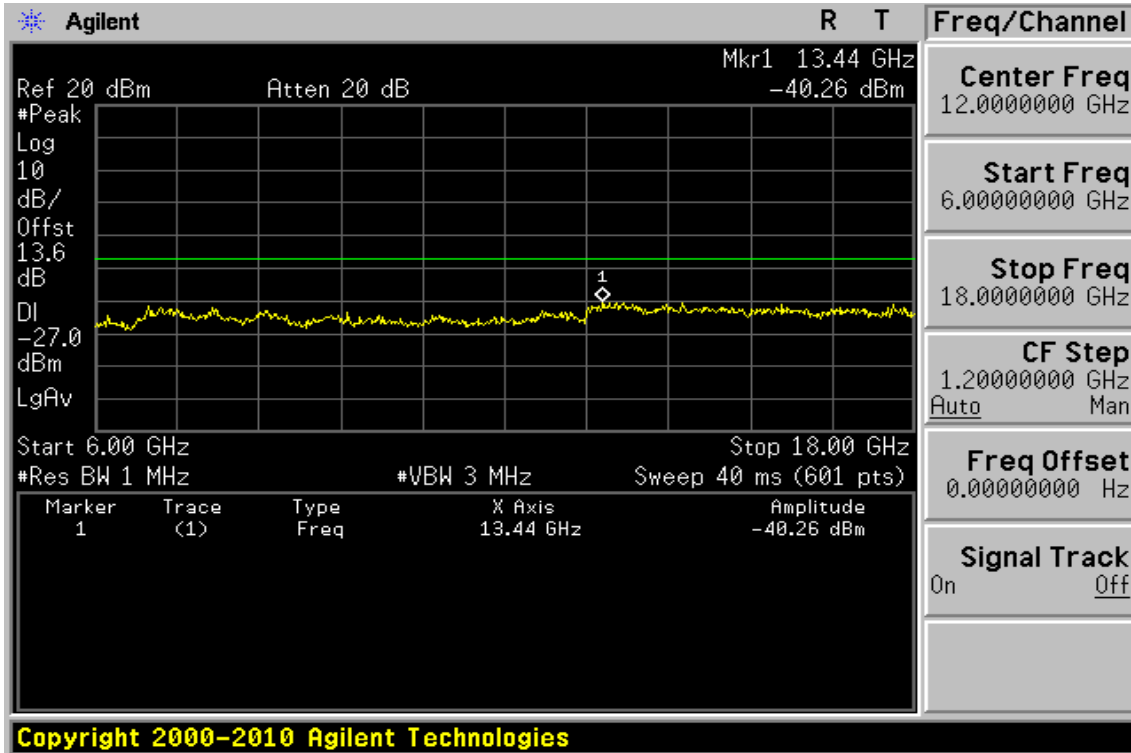
**Ch Low 1Hz – 6GH**



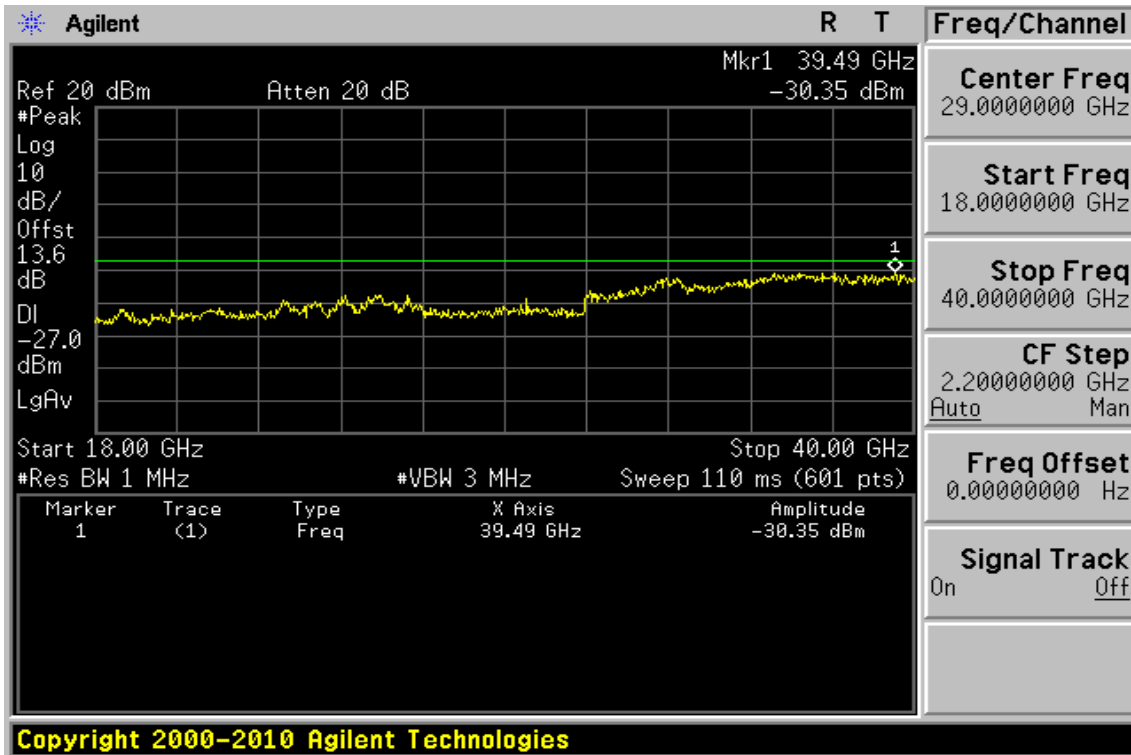
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**Ch Low 6GHz – 18GHz**



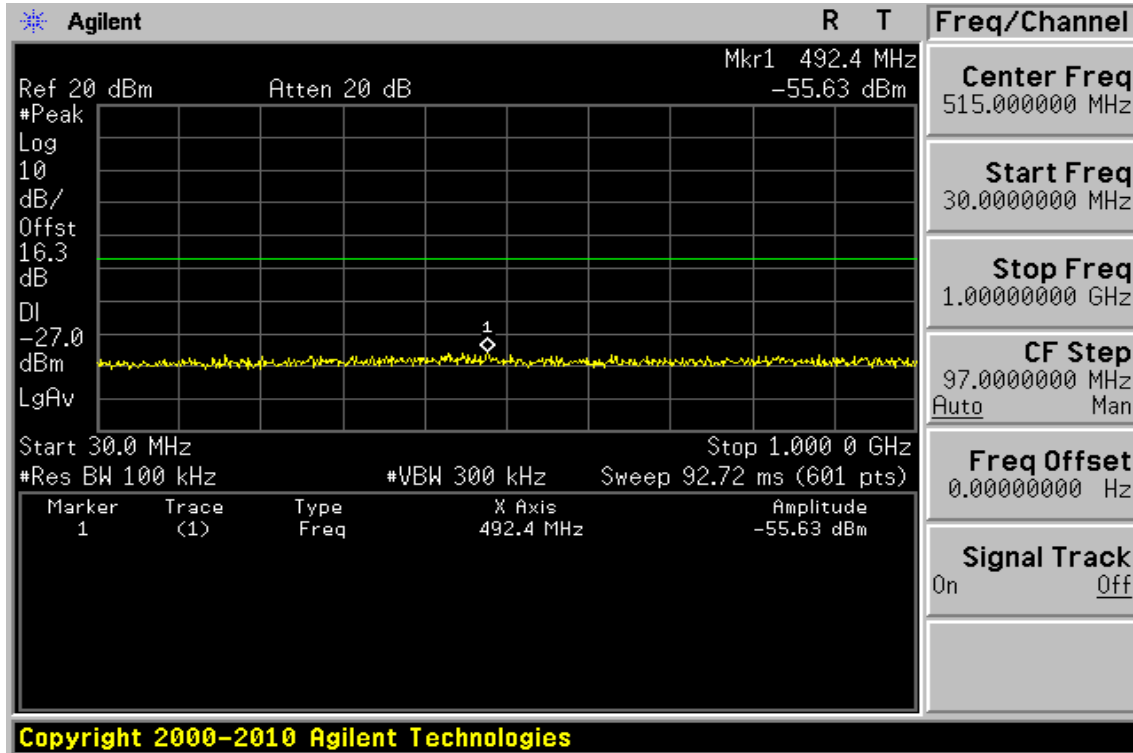
**Ch Low 18GHz – 40GHz**



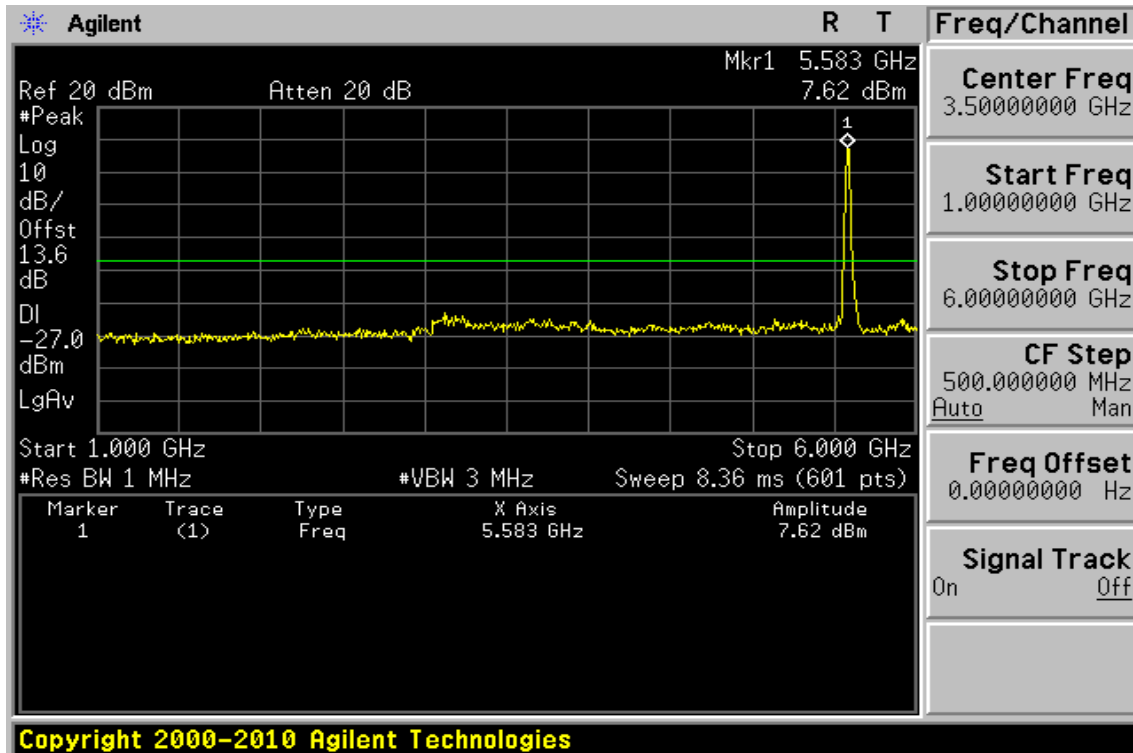
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Ch Mid 30MHz – 1GHz (5580 MHz)



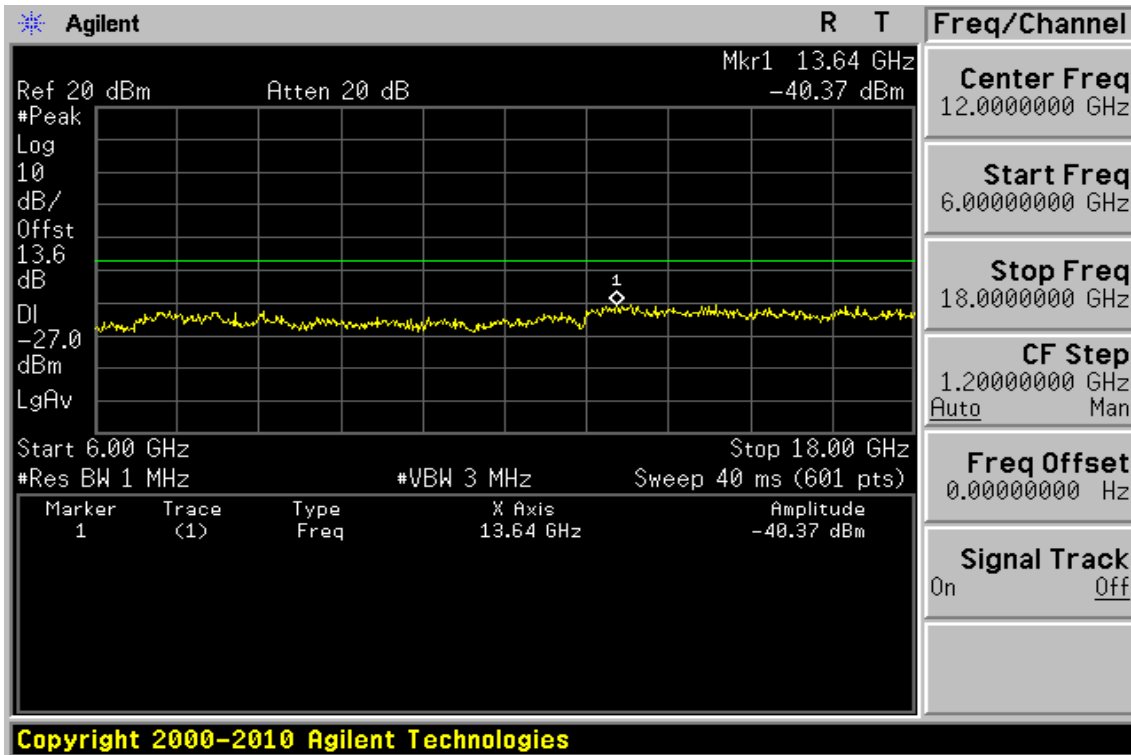
Ch Mid 1GHz – 6GHz



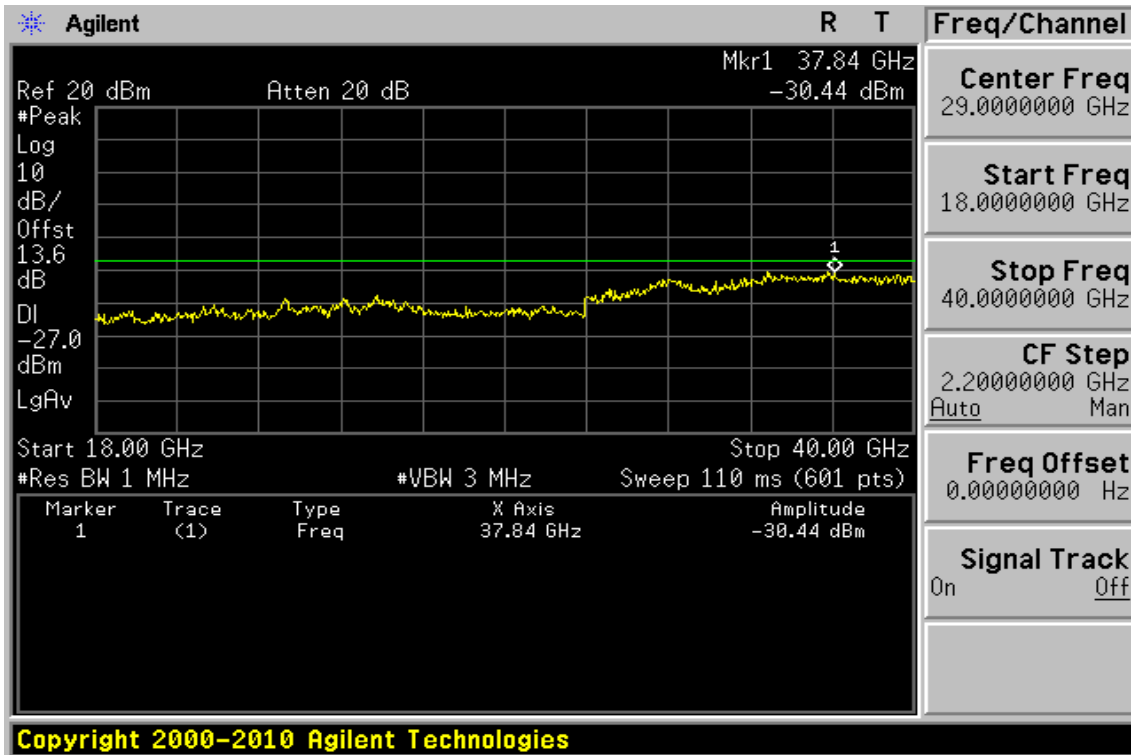
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Ch Mid 6GHz – 18GHz



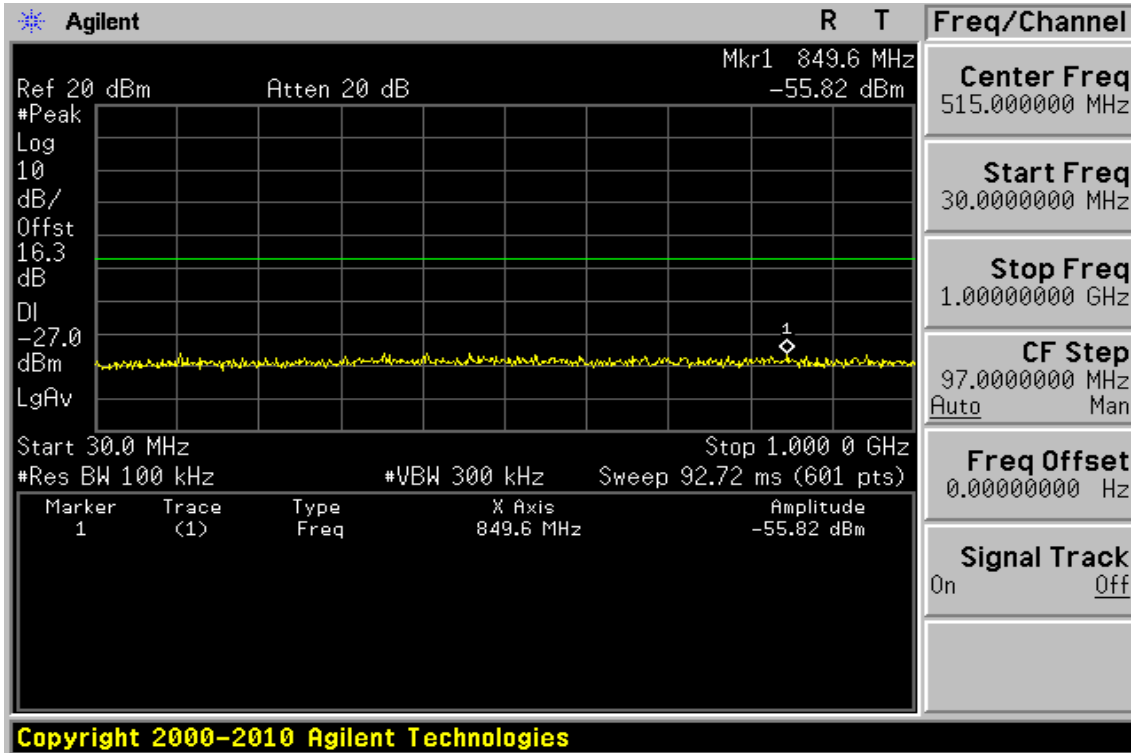
Ch Mid 18GHz – 40GHz



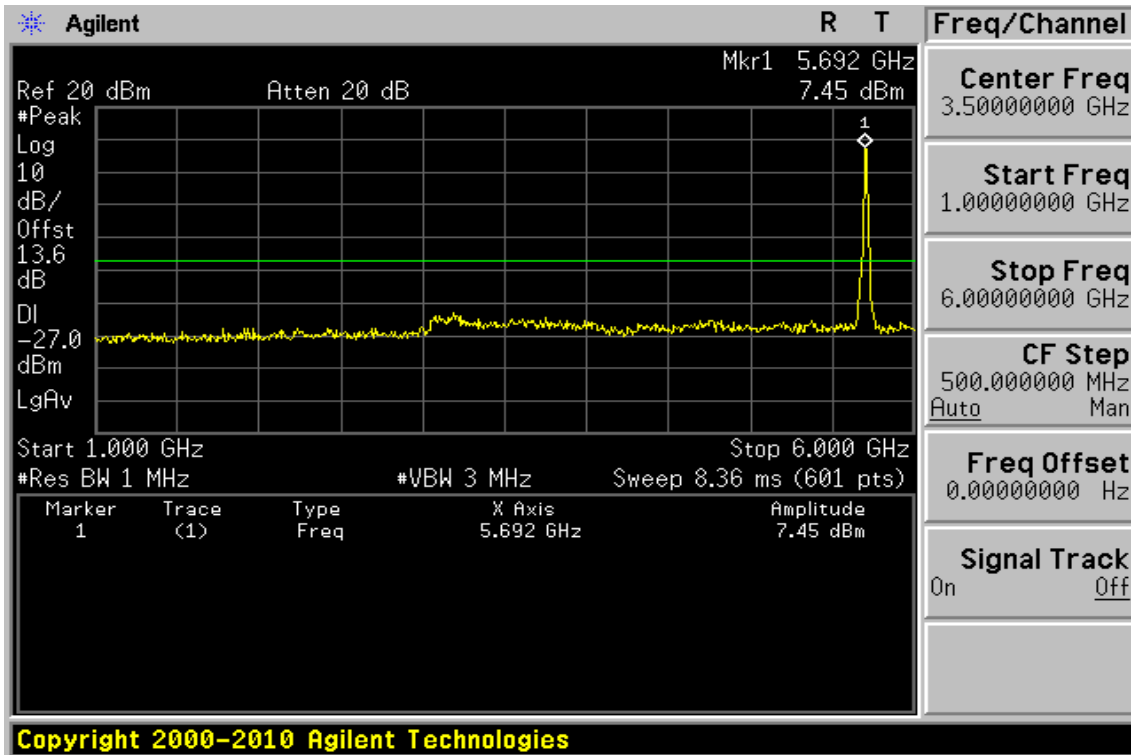
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### Ch High 30MHz – 1GHz (5700 MHz)



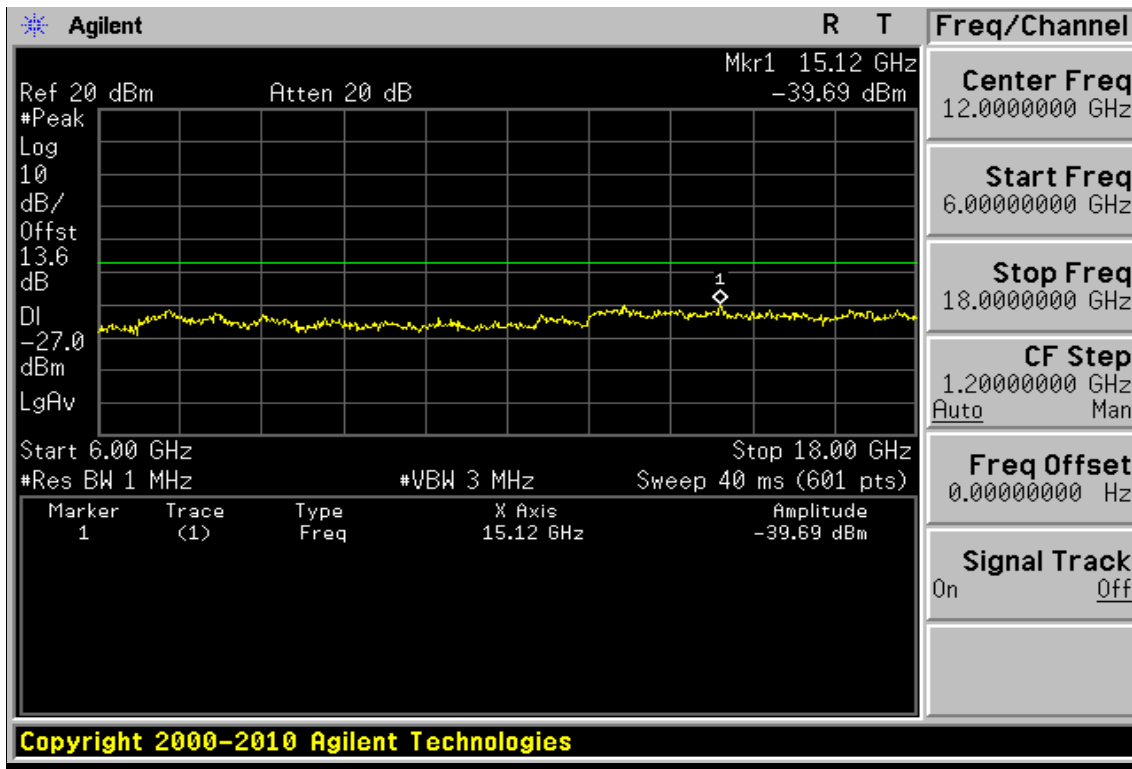
### Ch High 1GHz – 6GHz



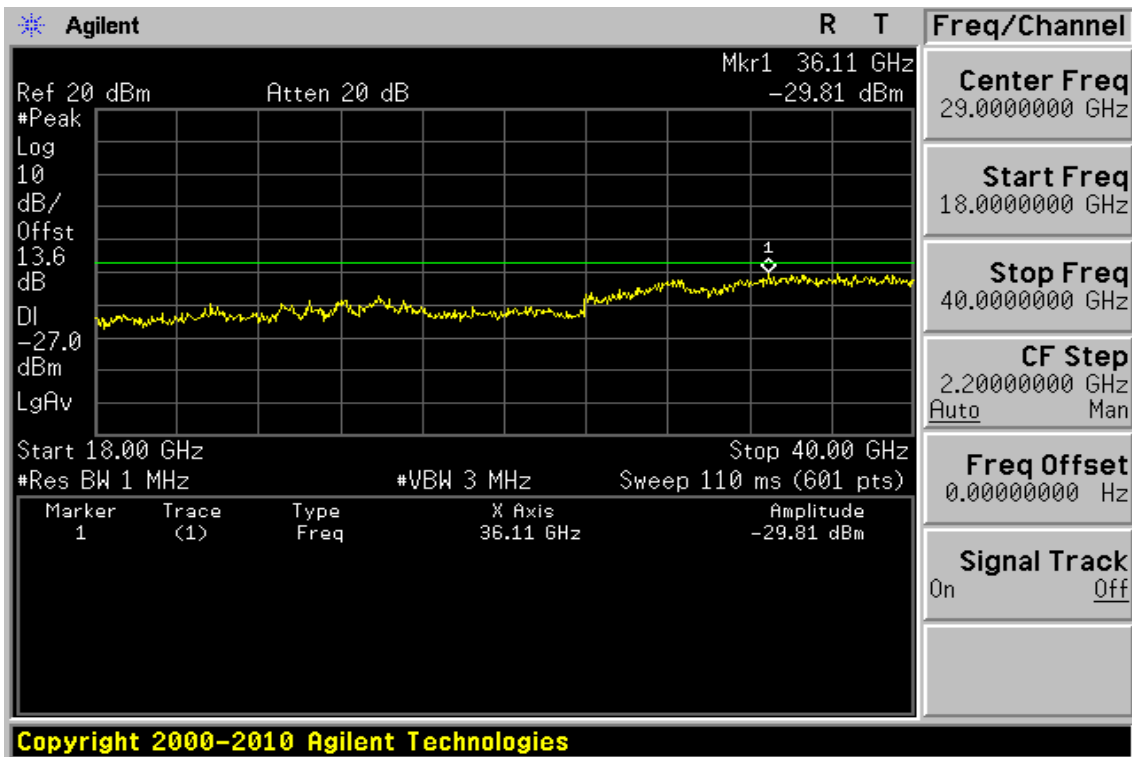
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### Ch High 6GHz – 18GHz



### Ch High 18GHz – 40GHz



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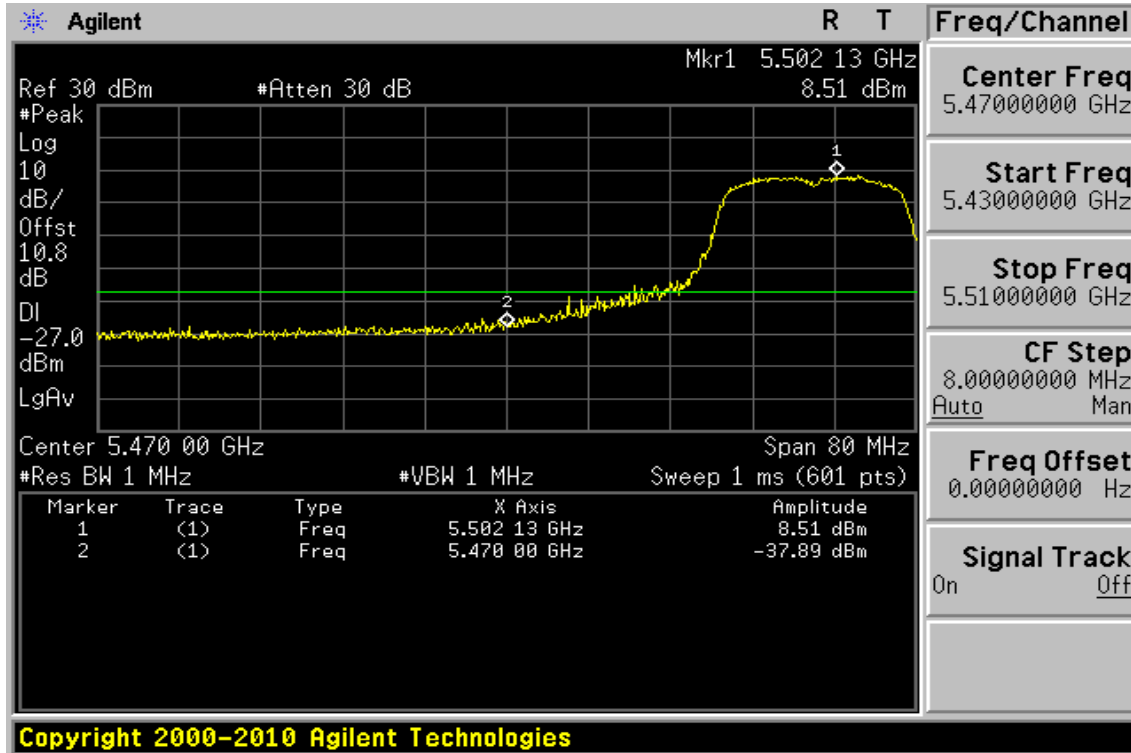
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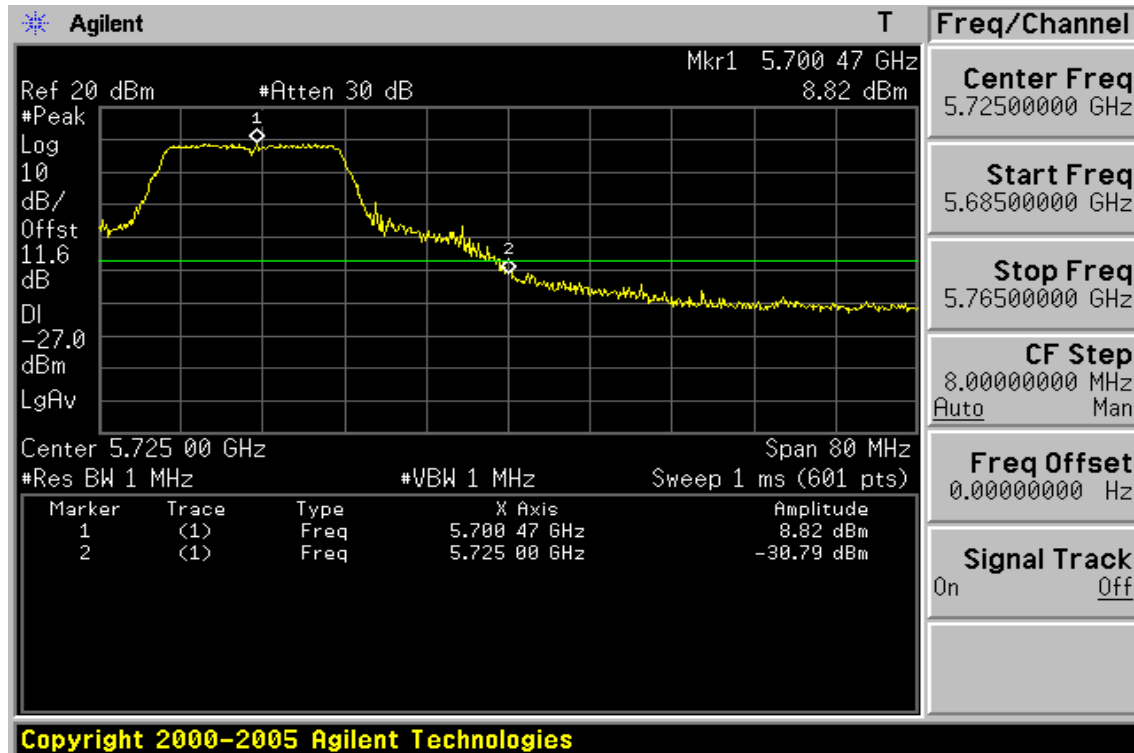
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### 802.11n HT20 5470~5725 MHz Band Edges Test Data CH 5500



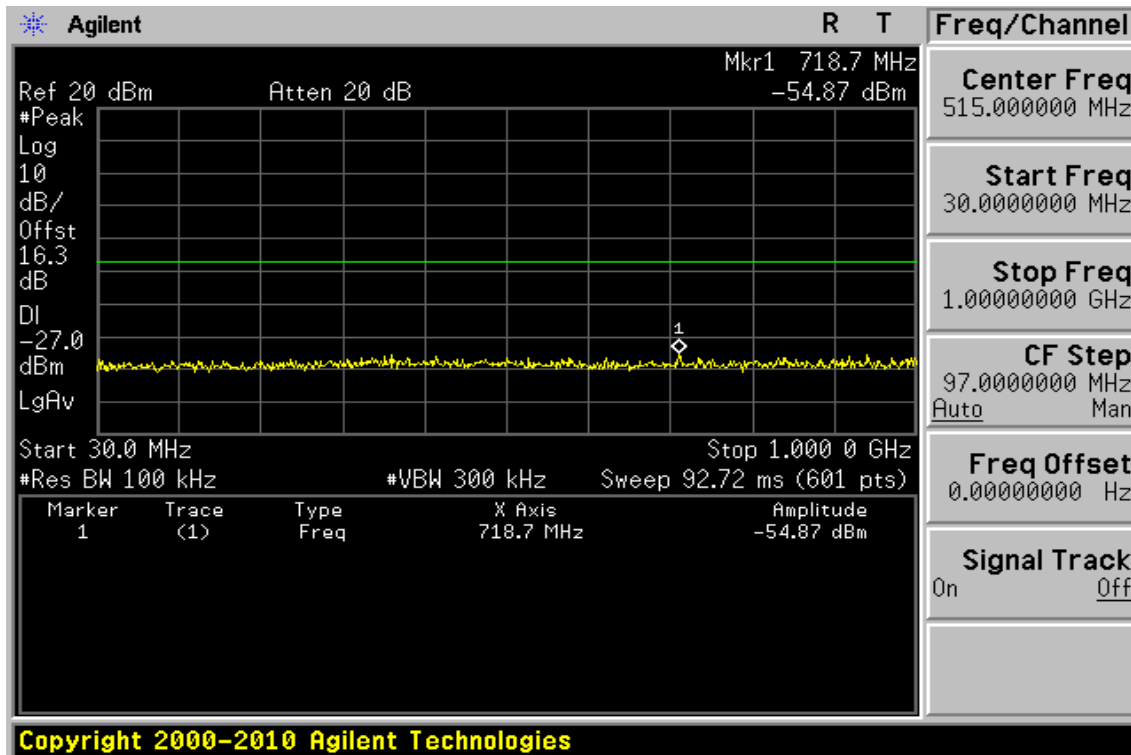
### 802.11n HT20 5470~5725 MHz Band Edges Test Data CH 5700



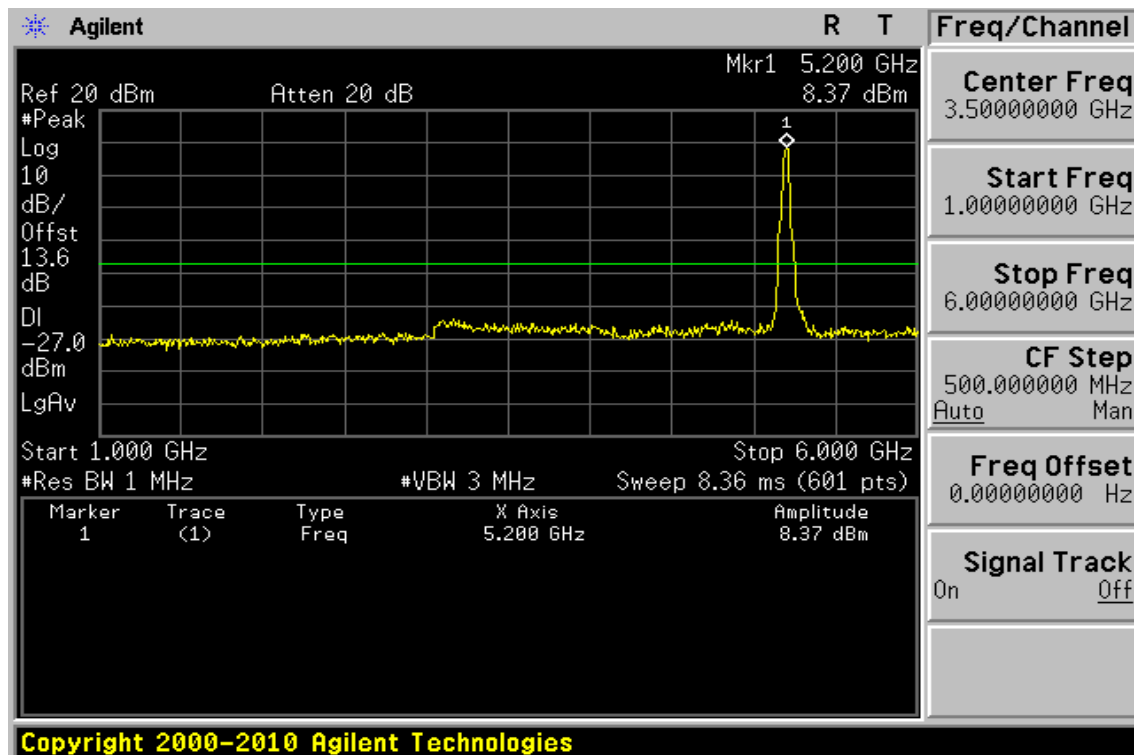
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**802.11n HT40, 5150~5250 MHz**  
**Ch Low 30MHz – 1GHz (5190 MHz)**



**Ch Low 1GHz – 6GHz**

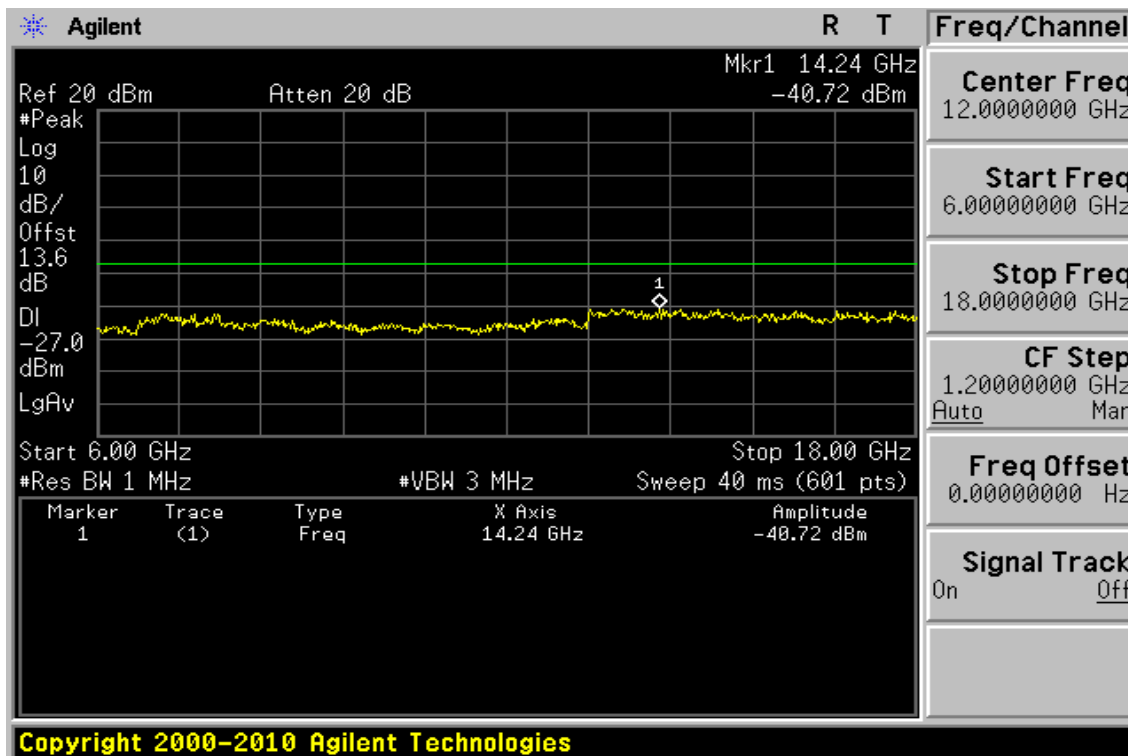


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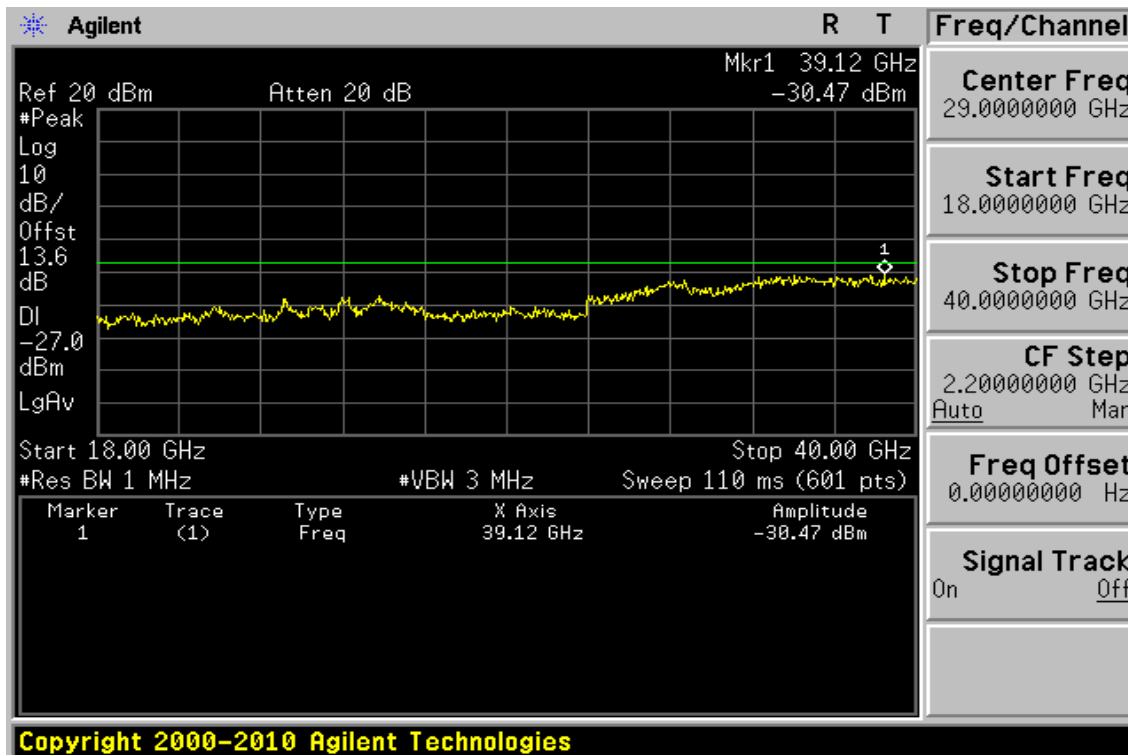
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### Ch Low 6GHz – 18GHz



### Ch Low 18GHz – 40GHz

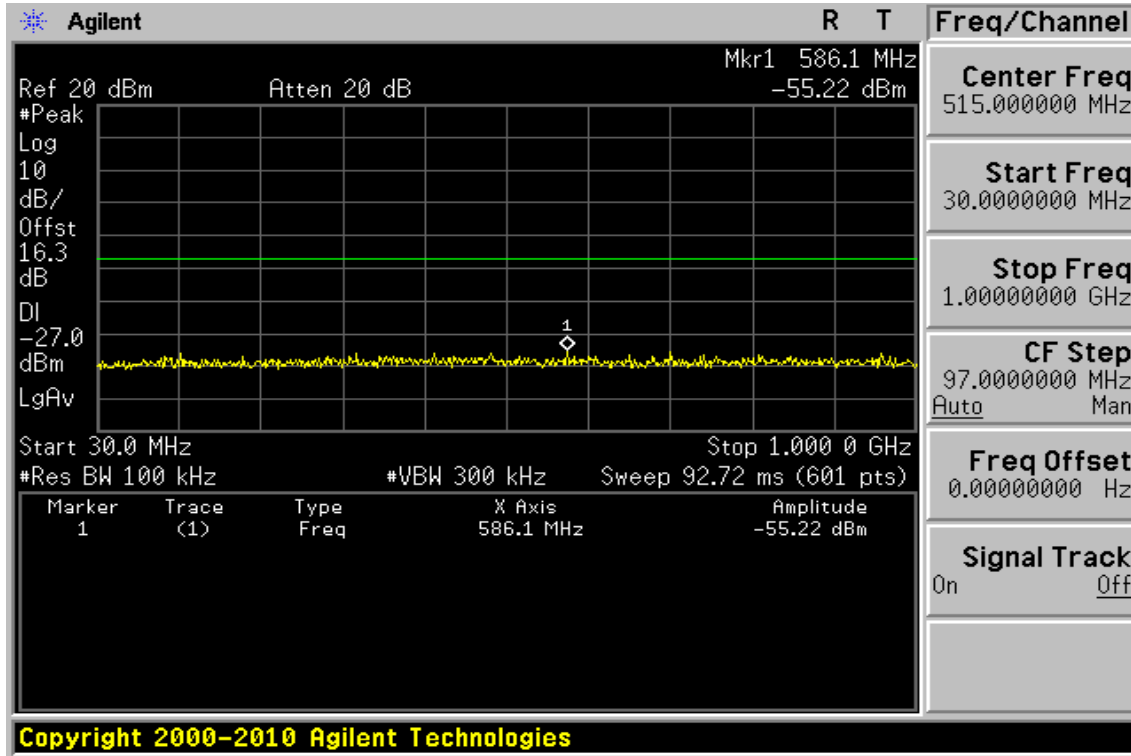


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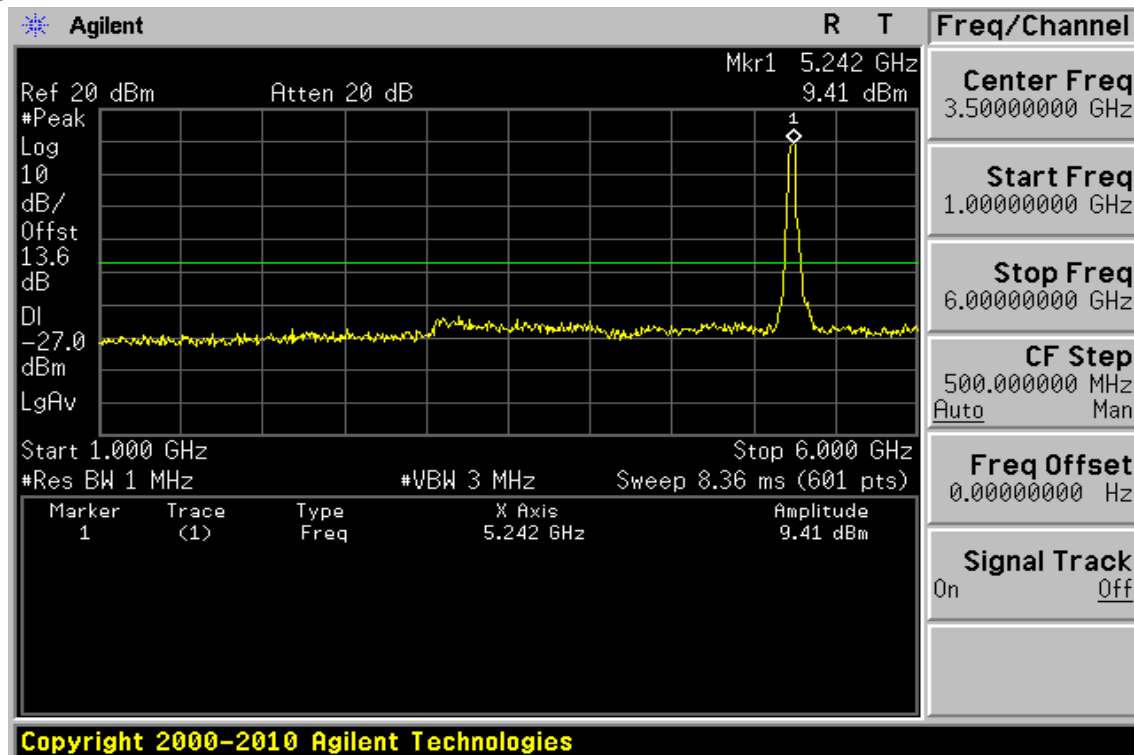
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### Ch High 30MHz – 1GHz (5230 MHz)



### Ch High 1GHz – 6GHz

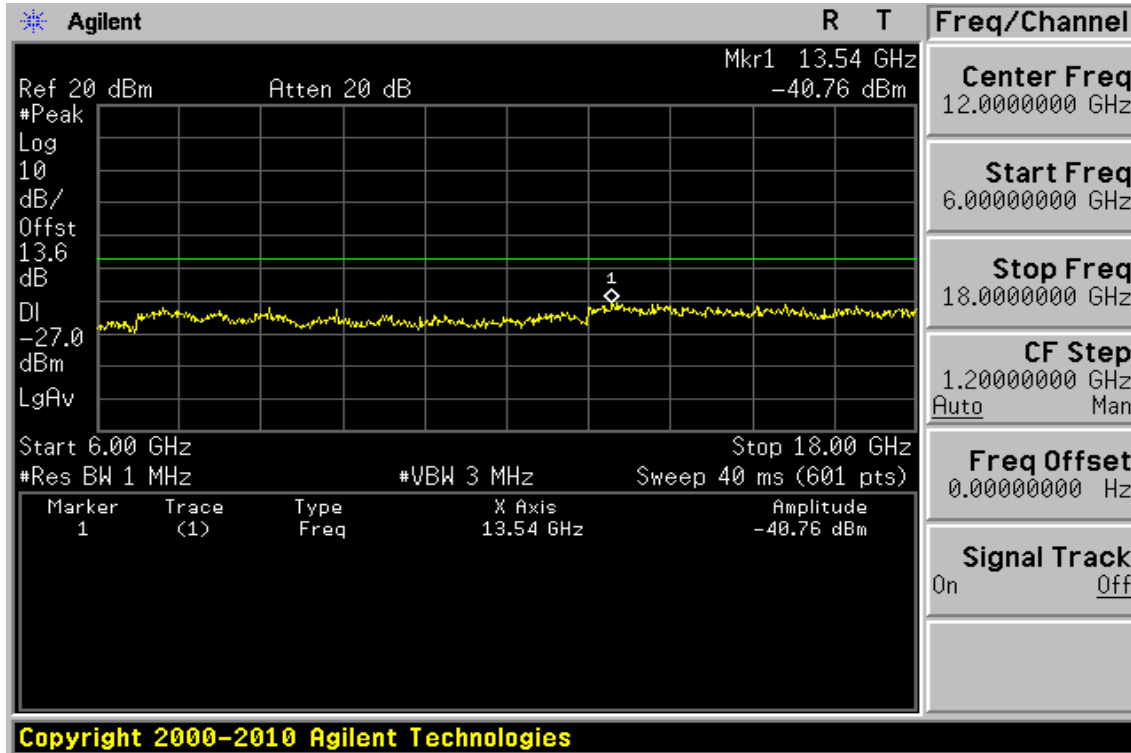


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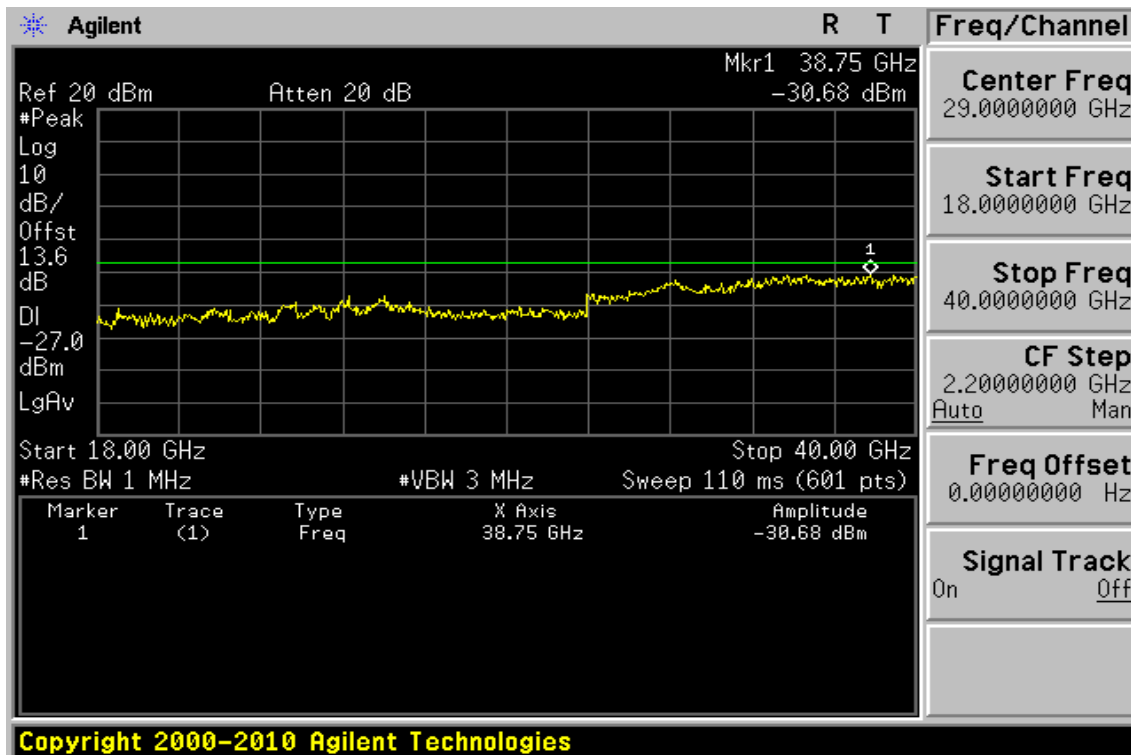
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### Ch High 6GHz – 18GHz



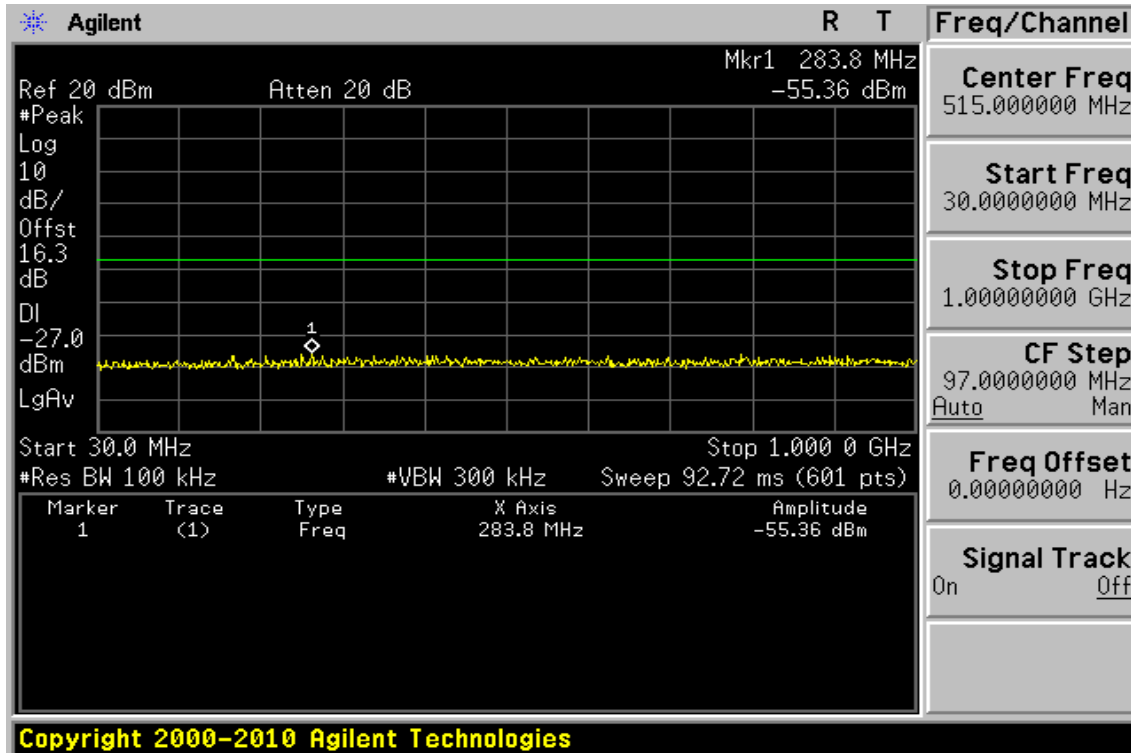
### Ch High 18GHz – 40GHz



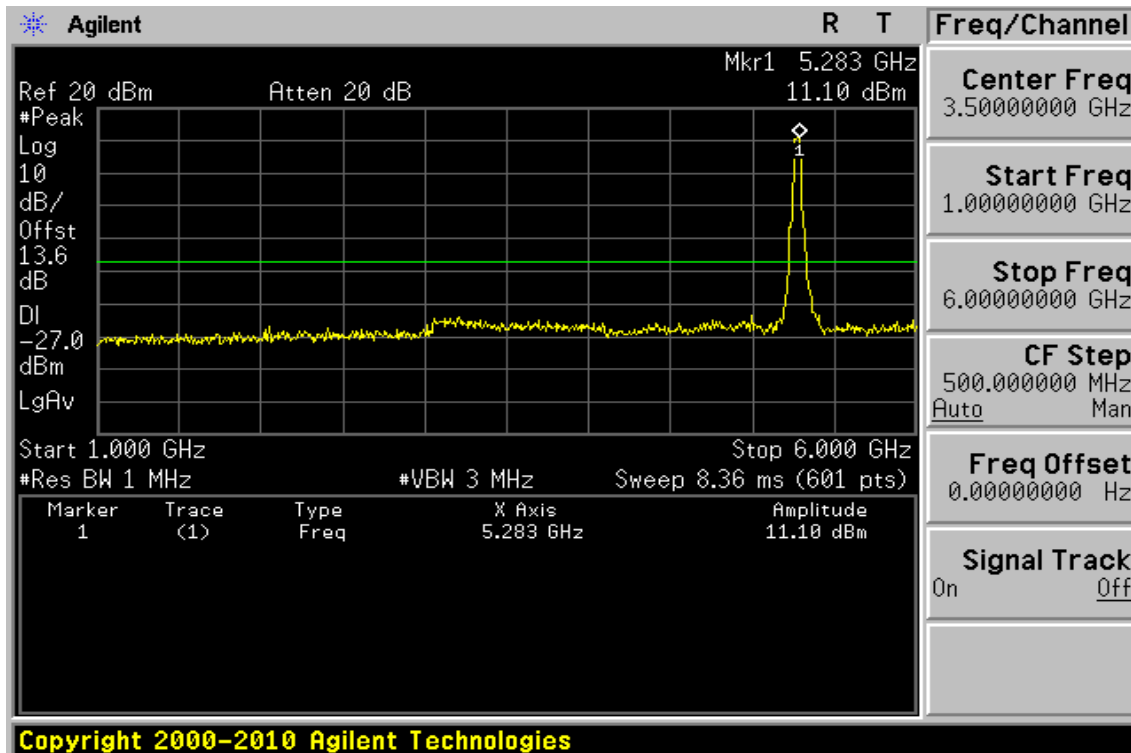
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**802.11n HT40, 5250~5350 MHz**  
**Ch Low 30MHz – 1GHz (5270 MHz)**



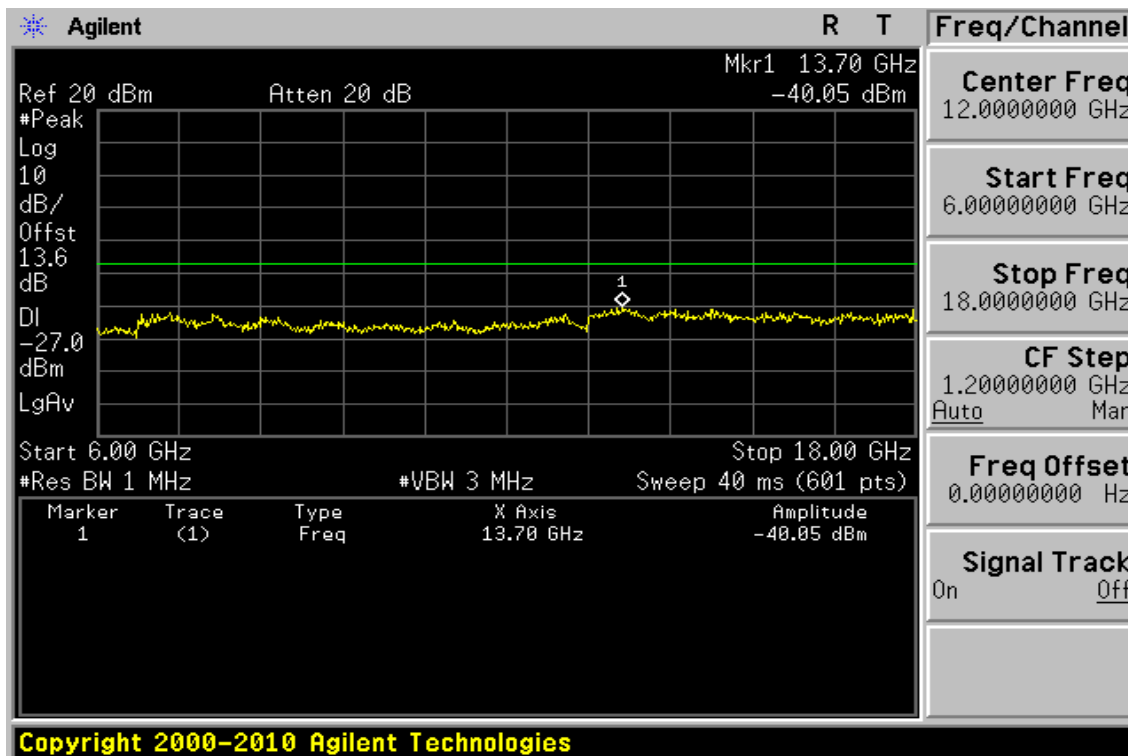
**Ch Low 1MHz – 6GHz**



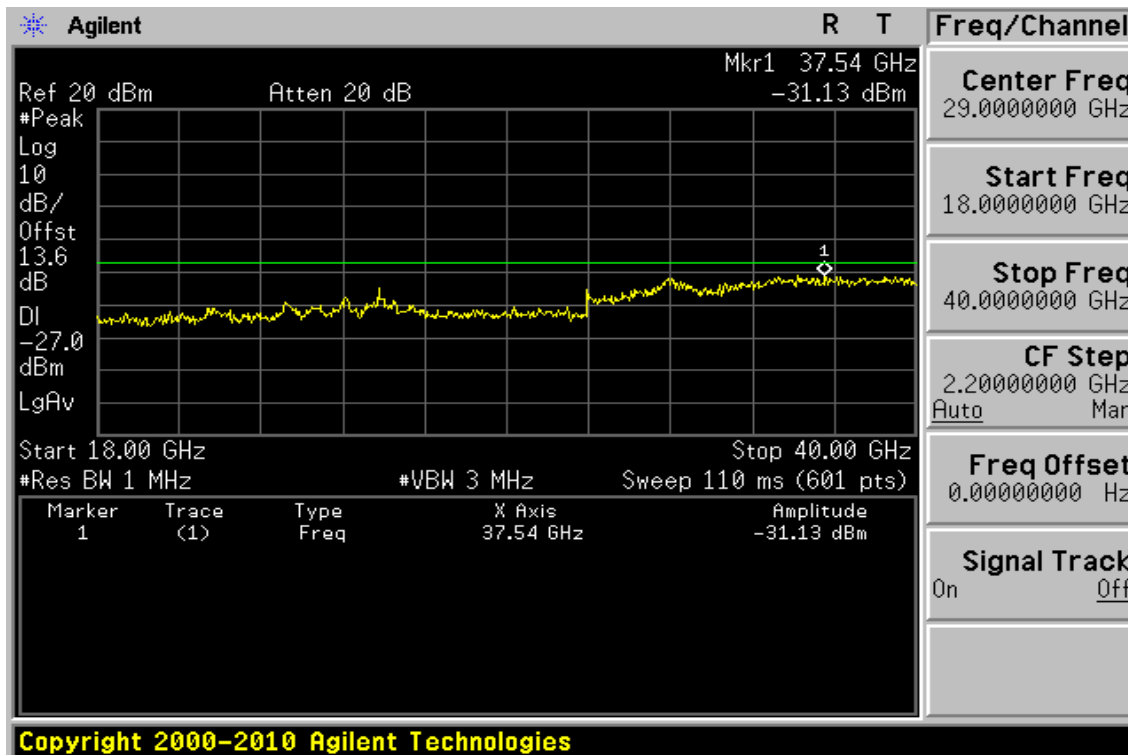
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### Ch Low 6GHz – 18GHz



### Ch Low 18GHz – 40GHz

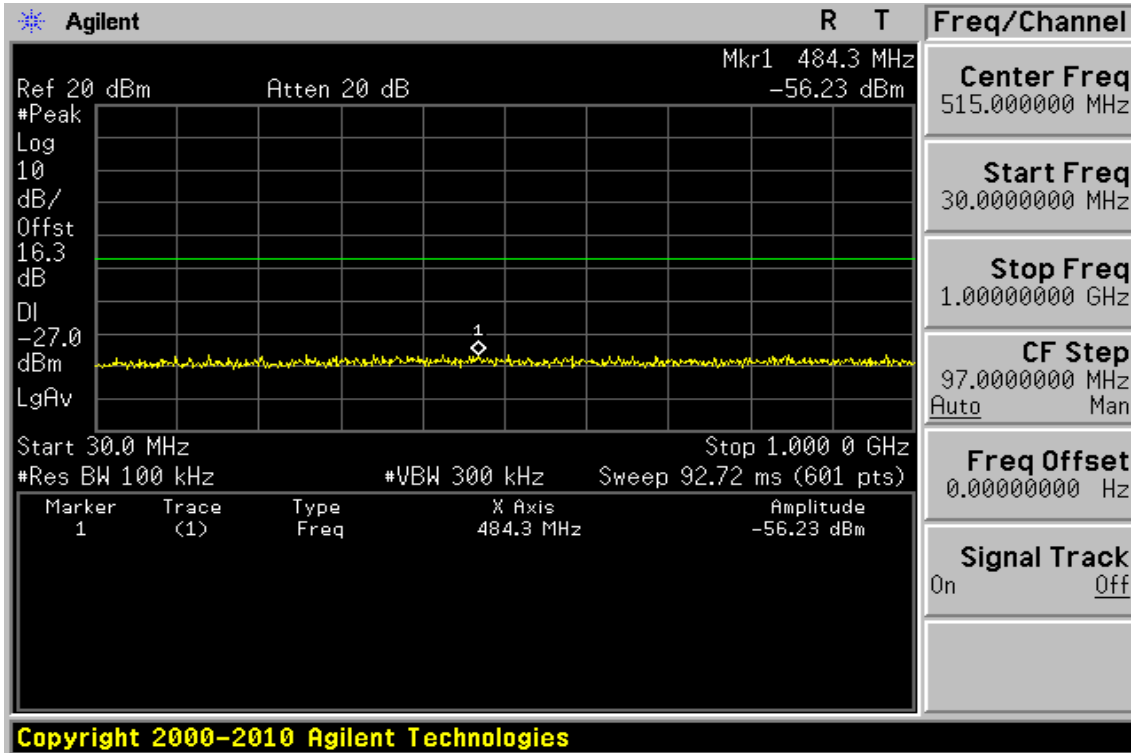


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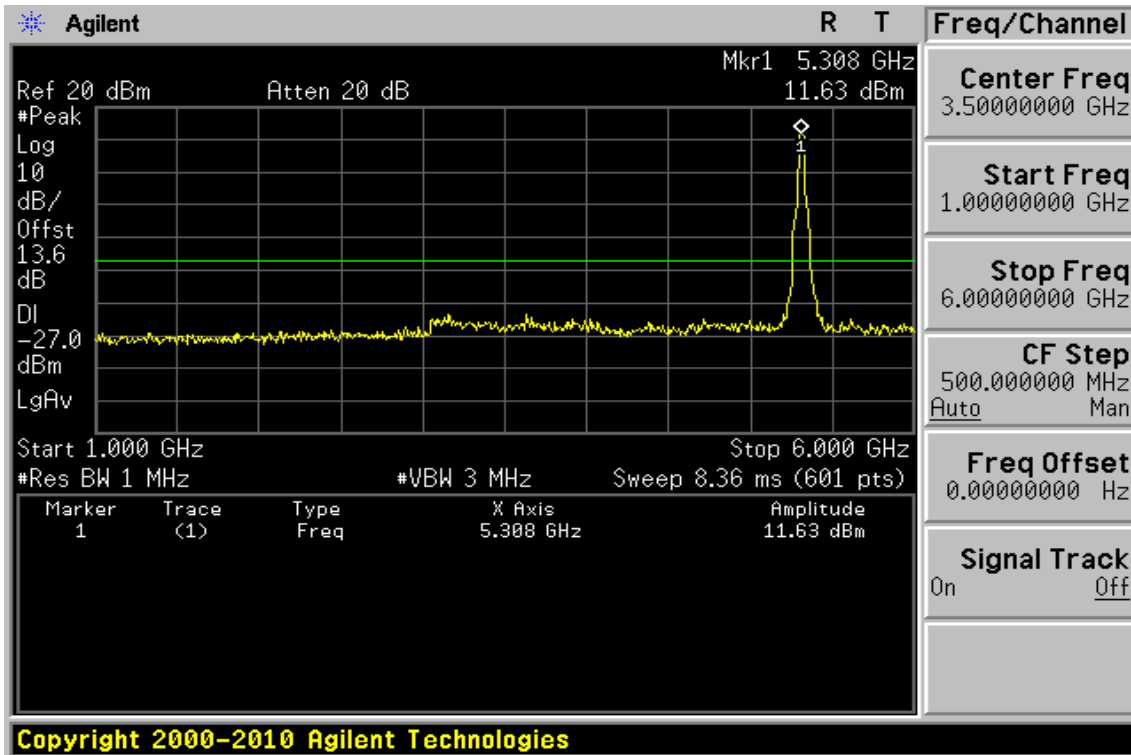
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Ch High 30MHz – 1GHz (5310 MHz)



Ch High 1MHz – 6GHz

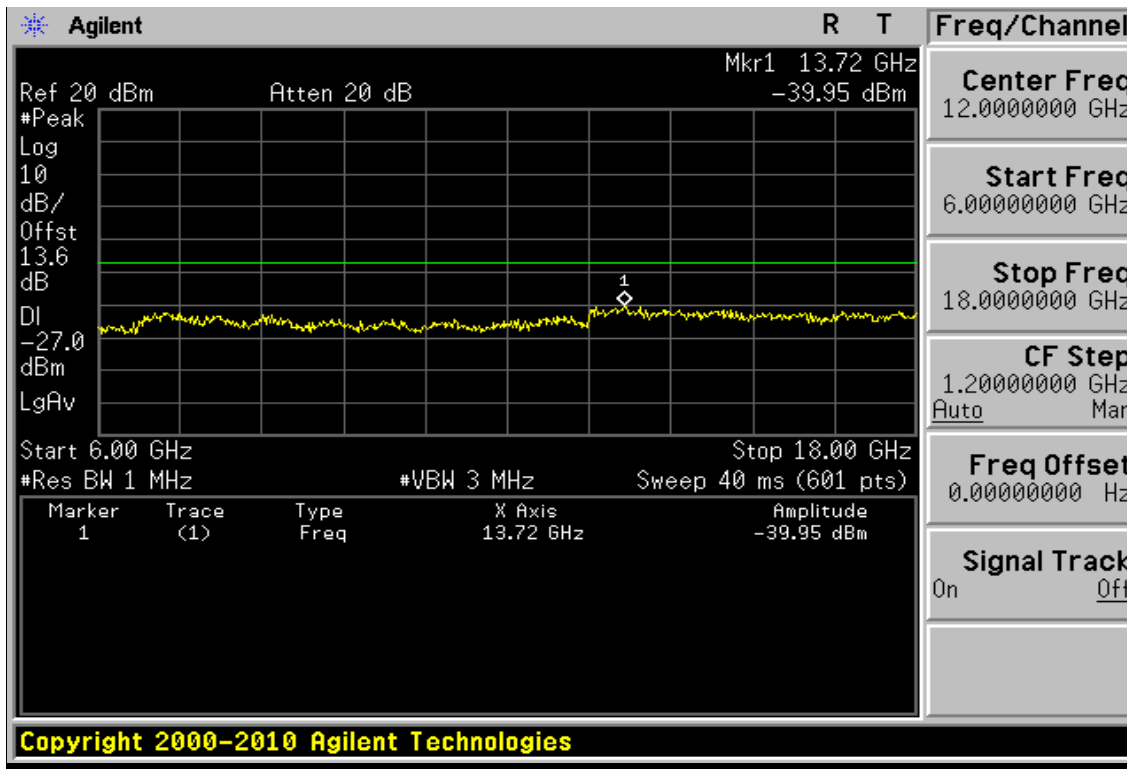


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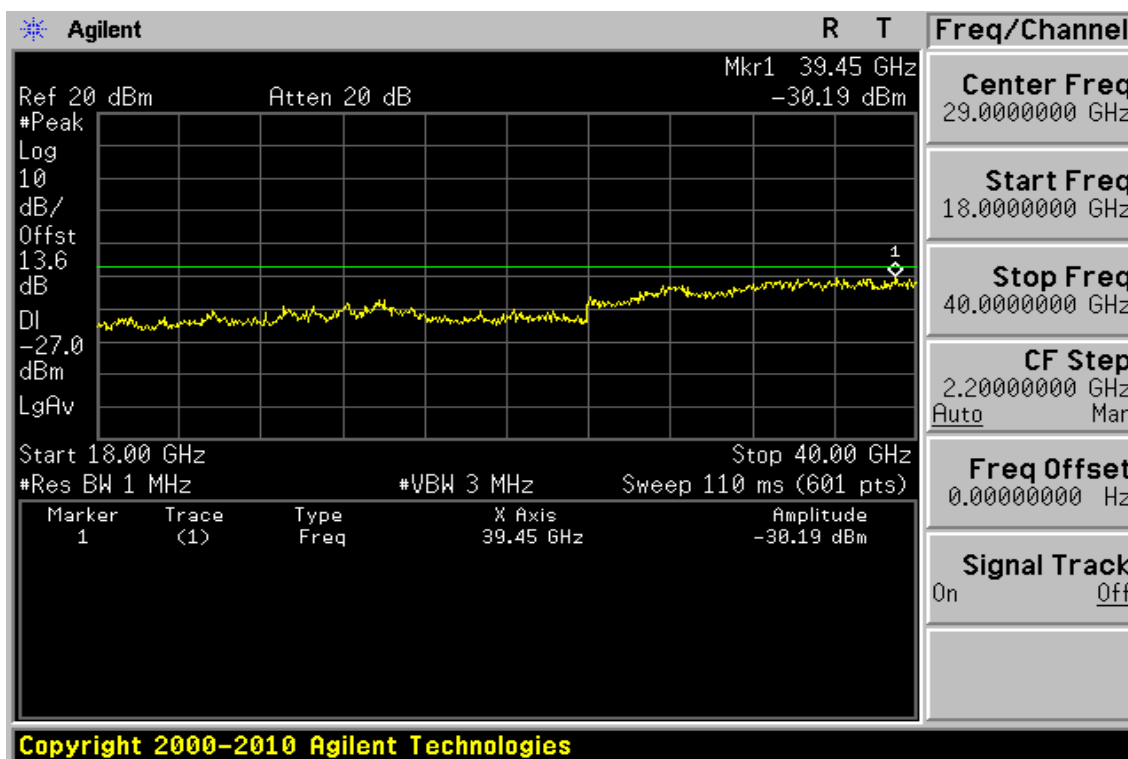
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### Ch High 6GHz – 18GHz



### Ch High 18GHz – 40GHz

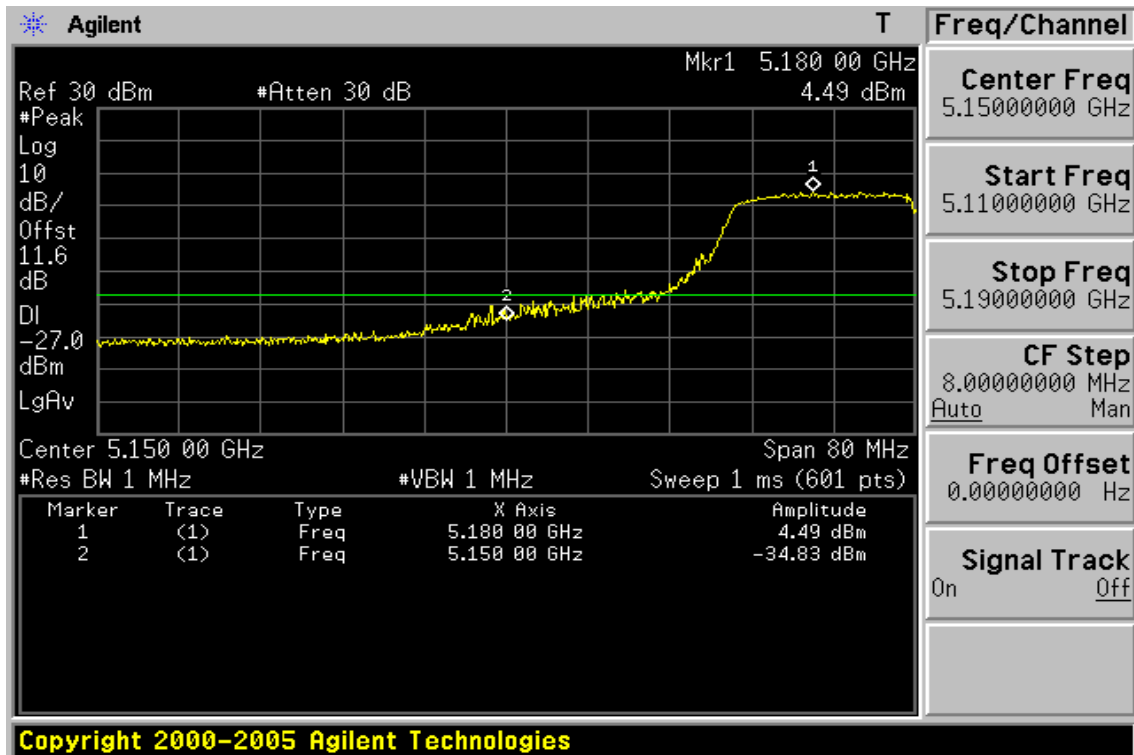


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**802.11n HT40 5150~5350 MHz**  
**Band Edges Test Data CH 5150**



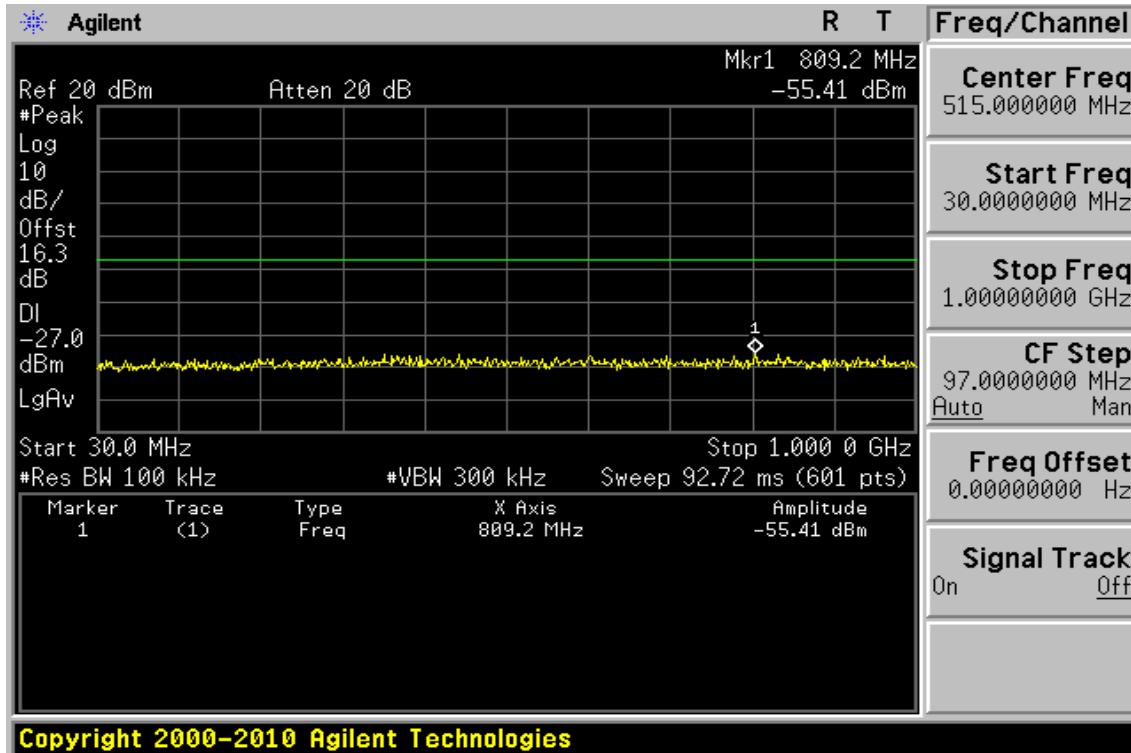
**Band Edges Test Data CH 5350**



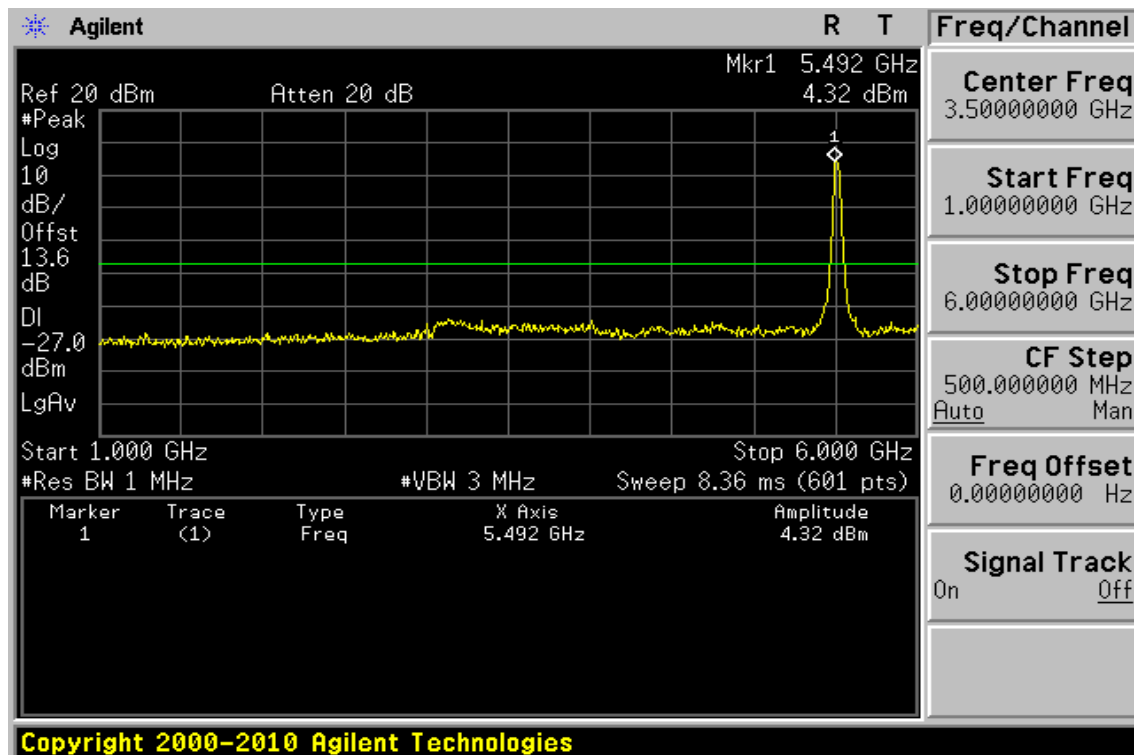
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**802.11n HT40, 5470~5725 MHz**  
**Ch Low 30MHz – 1GHz (5510 MHz)**



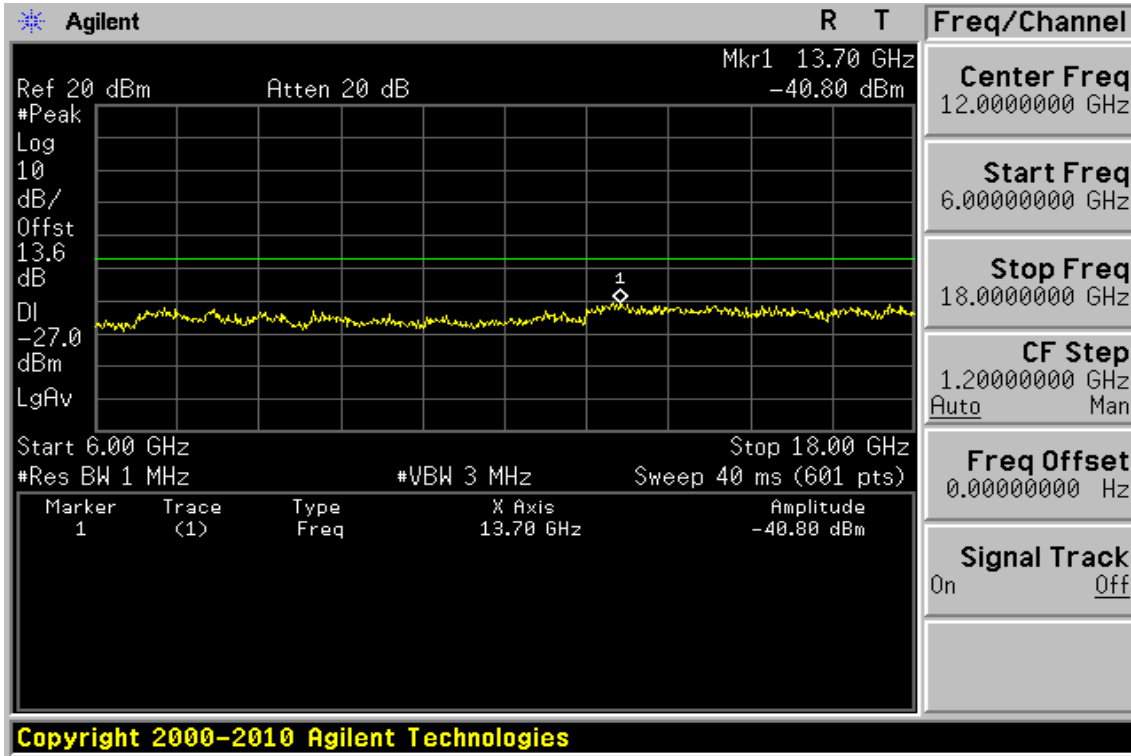
**Ch Low 1GHz – 6GHz**



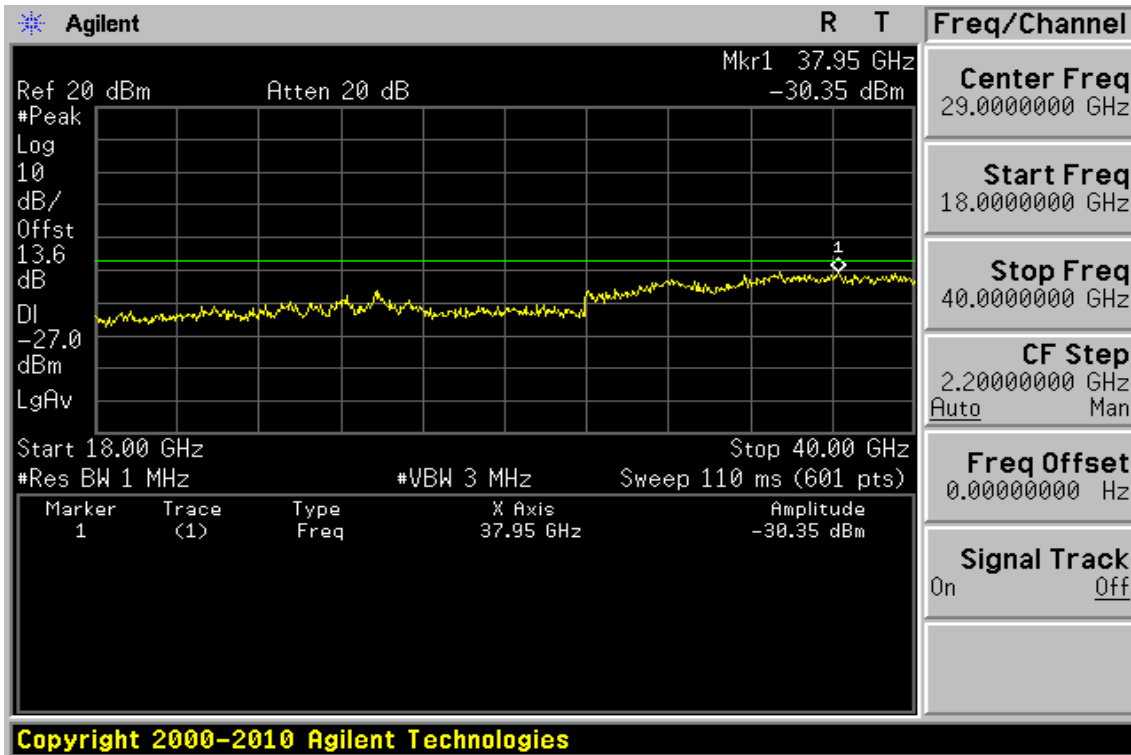
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**Ch Low 6GHz – 18GHz**



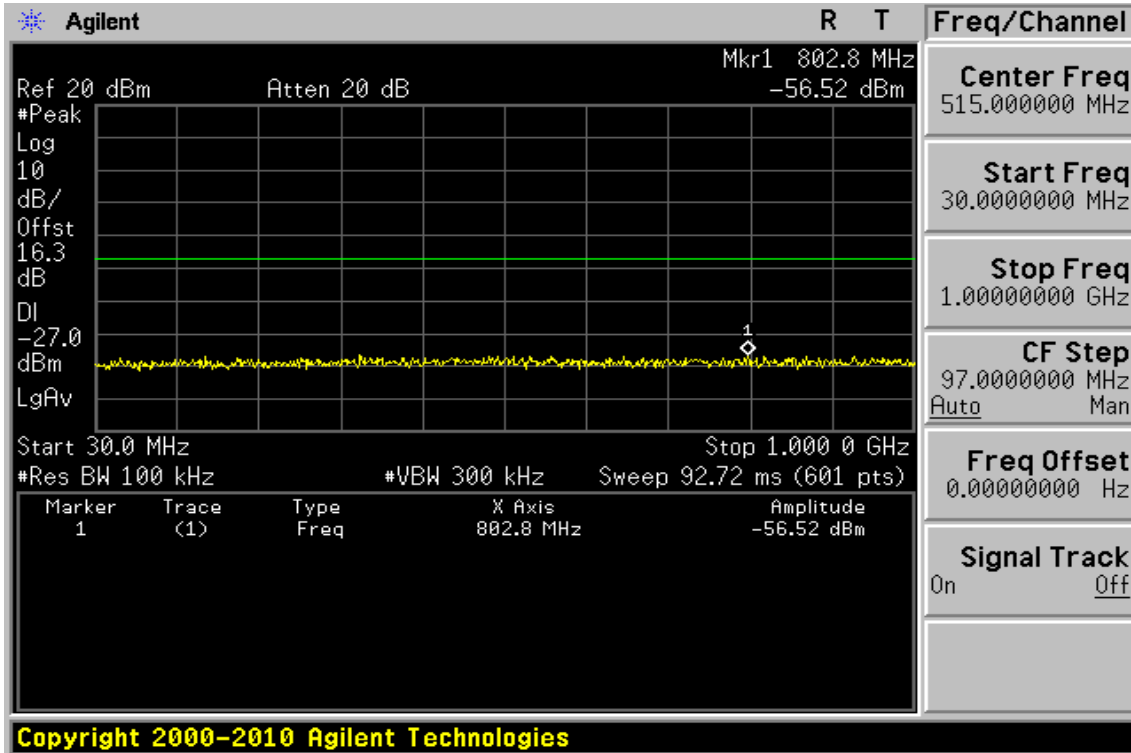
**Ch Low 18GHz – 40GHz**



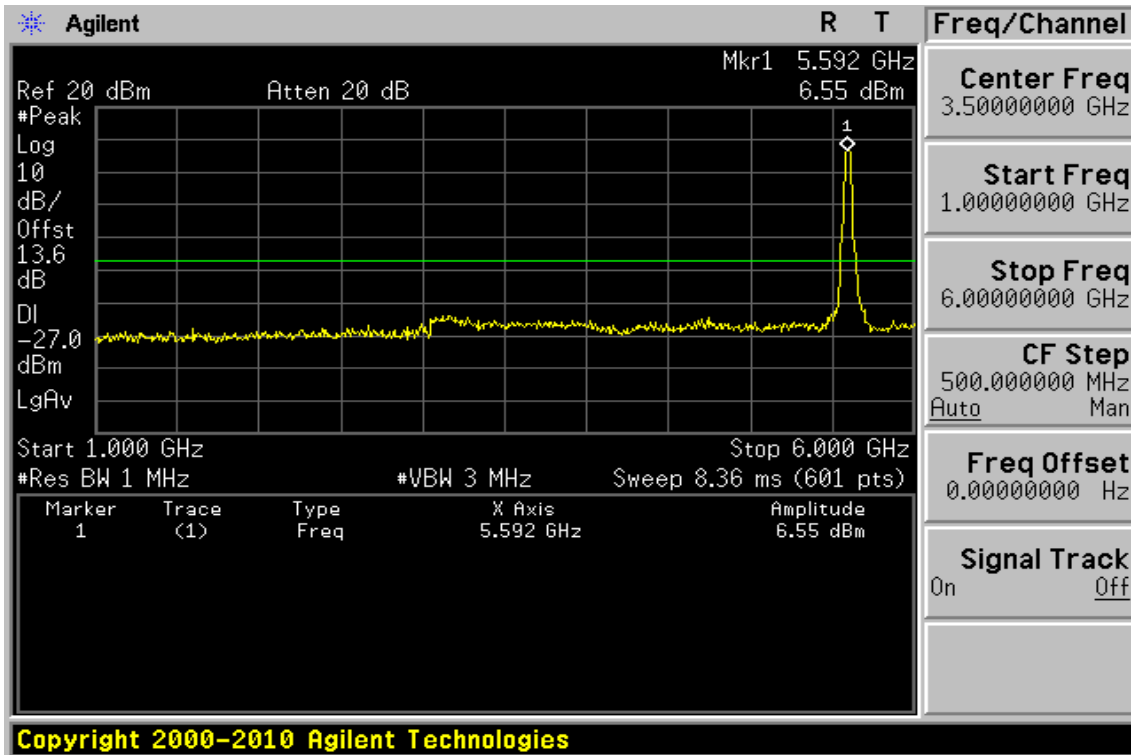
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Ch Mid 30MHz – 1GHz (5590 MHz)



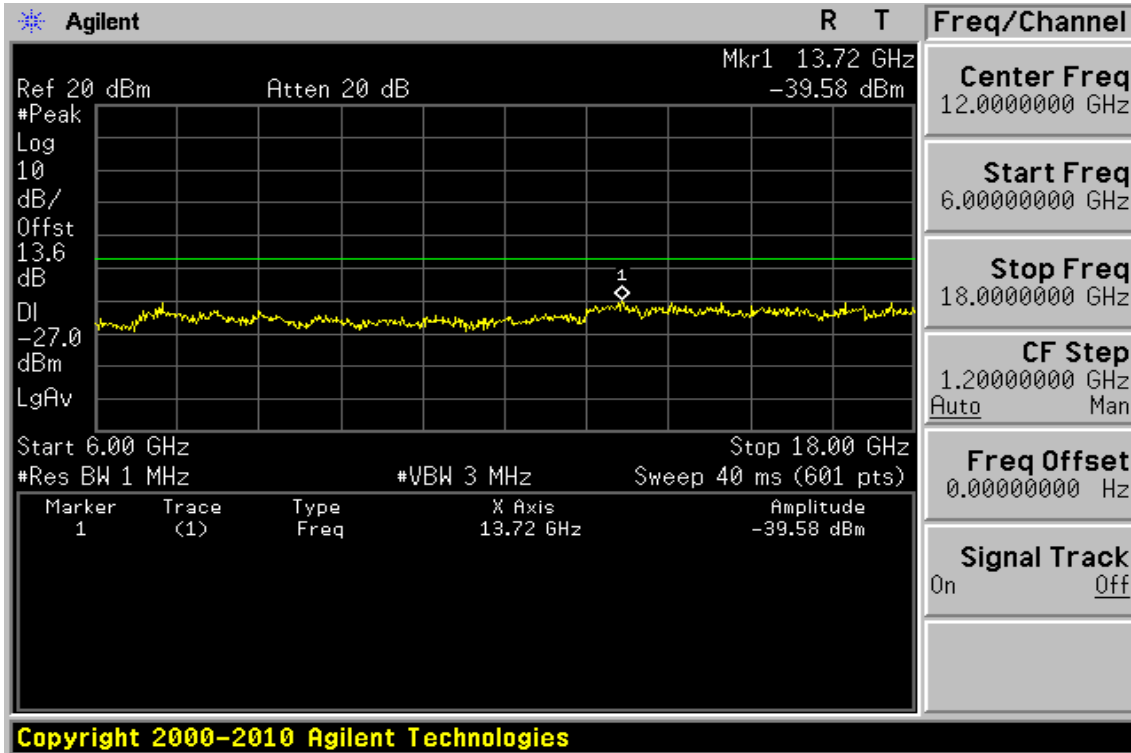
Ch Mid 1GHz – 6GHz



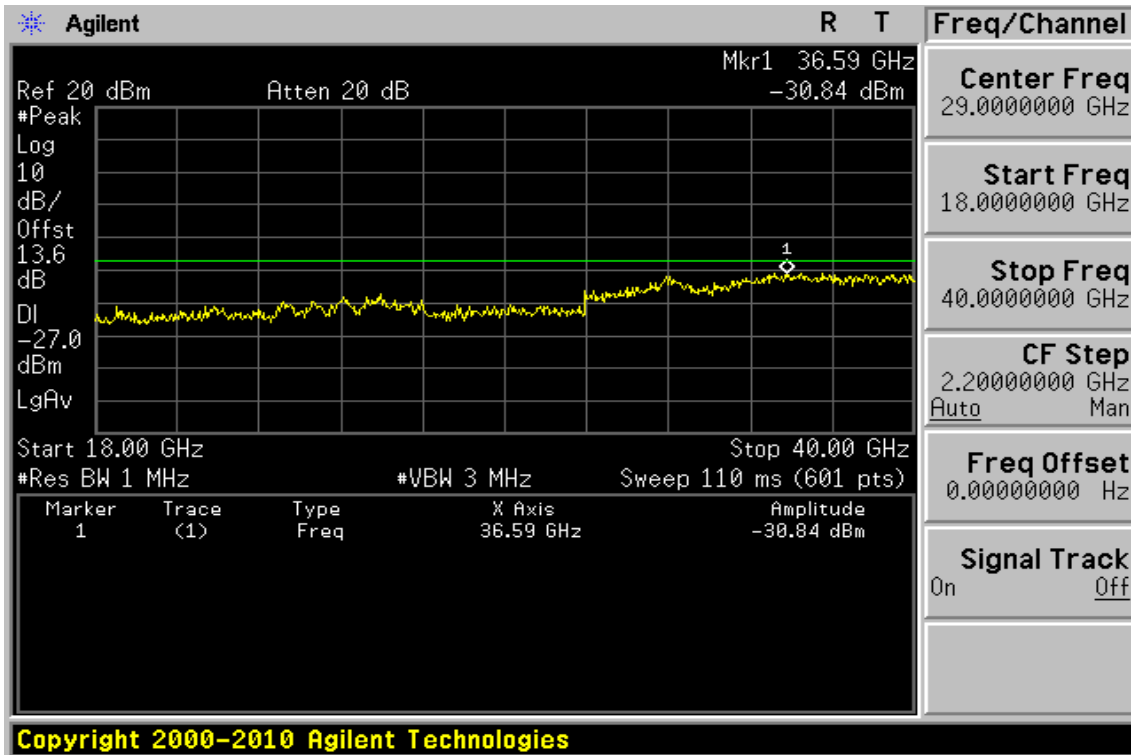
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Ch Mid 6GHz – 18GHz



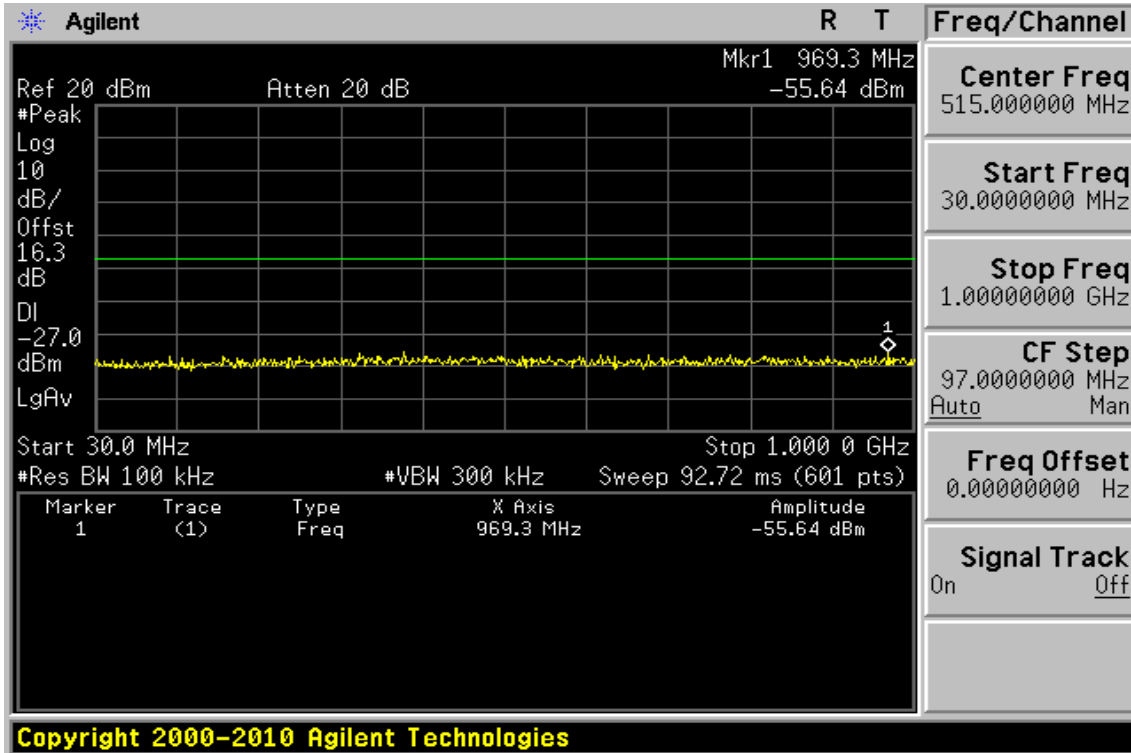
Ch Mid 18GHz – 40GHz



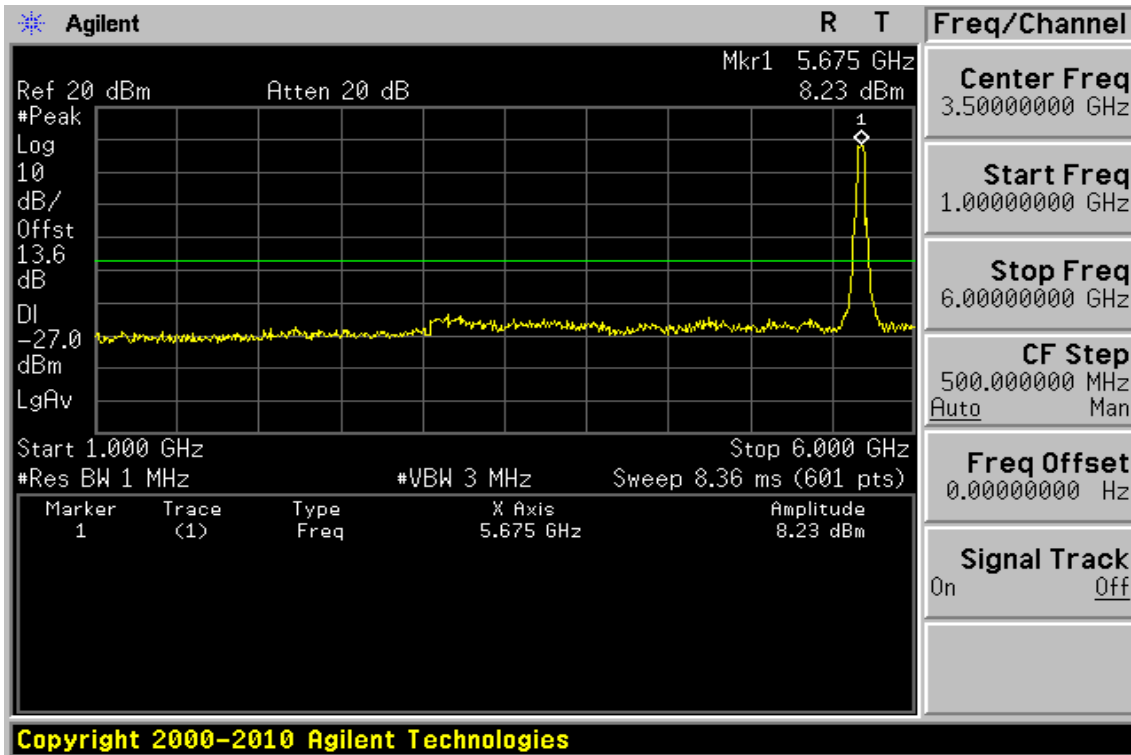
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Ch High 30MHz – 1GHz (5670 MHz)



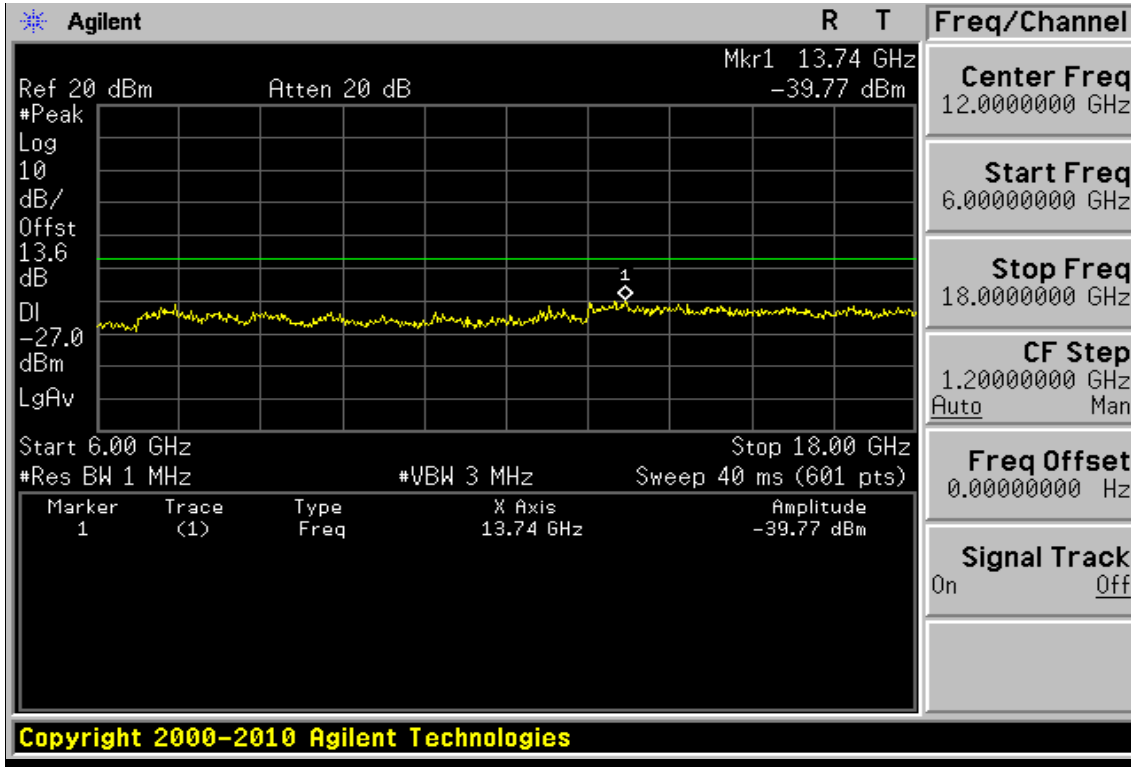
Ch High 1GHz – 6GHz



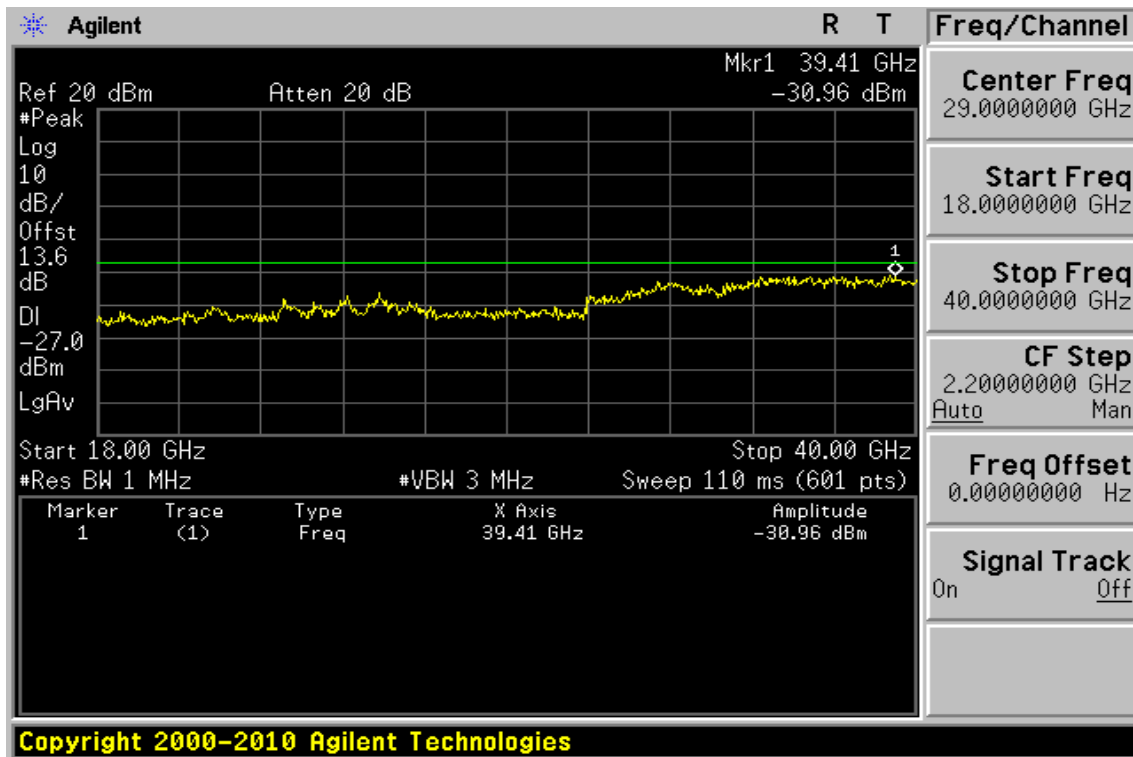
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Ch High 6GHz – 18GHz



Ch High 18GHz – 40GHz

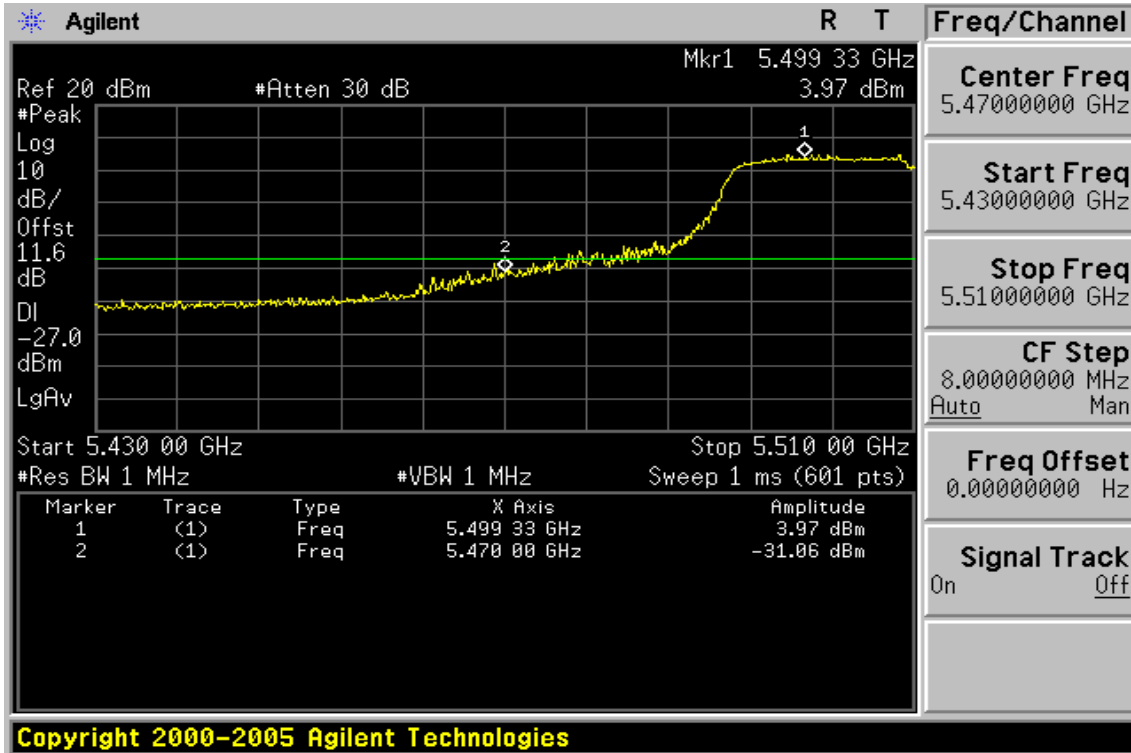


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### 802.11n HT40 5470~5725 MHz Band Edges Test Data CH 5510



### 802.11n HT40 5470~5725 MHz Band Edges Test Data CH 5670



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## 12. UNDESIRABLE EMISSION - RADIATED MEASUREMENT

### 12.1 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 D01, where the conducted measurement is being used to comply with out of emission requirement as per FCC 15.407 b) 6) 7), and RSS-Gen 7.2.2.

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**§15.205- RESTRICTED BANDS OF OPERATIONS**

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

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

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

<sup>2</sup> Above 38.6

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

**§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

**According to RSS-Gen section 4.9 Transmitter Unwanted Emissions**

The measurement method shall be described in the test report. When the applicable unwanted emissions limits are defined in relative terms, the same parameter, peak power or average power, used for the transmitter output power measurement, shall be used for unwanted emission measurements.

In measuring unwanted emissions, the spectrum shall be investigated from 30 MHz or the lowest radio frequency signal generated in the equipment, whichever is lower, without going below 9 kHz, up to at least the frequency given in (a) and (b):

- (a) If the equipment operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
- (b) If the equipment operates at or above 10 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.

Particular attention should be paid to harmonics and sub-harmonics of the carrier frequency, as well as to those frequencies removed from the carrier by multiples of the oscillator frequency. Radiation at the frequencies of multiplier stages should also be checked.

The amplitude of spurious emissions attenuated more than 20 dB below the permissible value need not be reported.

When limits are expressed in absolute terms, compliance with the emission limits shall be demonstrated using a CISPR quasi-peak detector and the related measurement bandwidth for emissions below 1000 MHz. As an alternative to CISPR quasi-peak measurement, compliance with the emission limits can be demonstrated using measuring equipment employing a peak detector function properly adjusted for factors such as pulse desensitization as required, with an equal or greater measurement bandwidth relative to the applicable CISPR quasi-peak bandwidth.

Above 1000 MHz, compliance with the emission limits shall be demonstrated using an average detector with a minimum resolution bandwidth of 1 MHz.

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## According to RSS-Gen section 7.2.2 Emissions Falling Within Restricted Frequency Bands

Restricted bands, identified in Table 1, are designated primarily for safety-of-life services (distress calling and certain aeronautical bands), certain satellite downlinks, radio astronomy and some government uses. Except where otherwise indicated, the following restrictions apply:

- (a) fundamental components of modulation of licence-exempt radio apparatus shall not fall within the restricted bands of Table 1;
- (b) unwanted emissions falling into restricted bands of Table 1 shall comply with the limits specified in RSS-Gen;
- (c) unwanted emissions not falling within restricted frequency bands shall either comply with the limits specified in the applicable RSS, or with those specified in RSS-Gen.

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**Table 3: Restricted Frequency Bands** <sup>(Note)</sup>

MHz
0.090-0.110
2.1735-2.1905
3.020-3.026
4.125-4.128
4.17725-4.17775
4.20725-4.20775
5.677-5.683
6.215-6.218
6.26775-6.26825
6.31175-6.31225
8.291-8.294
8.362-8.366
8.37625-8.38675
8.41425-8.41475
12.29-12.293
12.51975-12.52025
12.57675-12.57725
13.36-13.41
16.42-16.423
16.69475-16.69525
16.80425-16.80475
25.5-25.67
37.5-38.25
73-74.6
74.8-75.2
108-138
156.52475-156.52525
156.7-156.9

MHz
240-285
322-335.4
399.9-410
608-614
960-1427
1435-1626.5
1645.5-1646.5
1660-1710
1718.8-1722.2
2200-2300
2310-2390
2655-2900
3260-3267
3332-3339
3345.8-3358
3500-4400
4500-5150
5350-5460
7250-7750
8025-8500

GHz
9.0-9.2
9.3-9.5
10.6-12.7
13.25-13.4
14.47-14.5
15.35-16.2
17.7-21.4
22.01-23.12
23.6-24.0
31.2-31.8
36.43-36.5
Above 38.6

**Note:** Certain frequency bands listed in Table 1 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to the devices are set out in the 200- and 300- series RSSs, such as RSS-210 and RSS-310, which contain the requirements that apply to licence-exempt radio apparatus.

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### 12.1.1 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).

### 12.1.2 Unwanted Emission that complies with the undesirable emission ruling by 15.407 (b) (1) (2) (3), RSS-210 A9.2 (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

Limit derivation in terms of Field Strength:

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

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

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

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## 12.2 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.

## 12.3 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 D01 requirements in section H)5) b), for average unwanted emission measurements follow the KDB 789033 D01 requirements in section H)6) c) or d).

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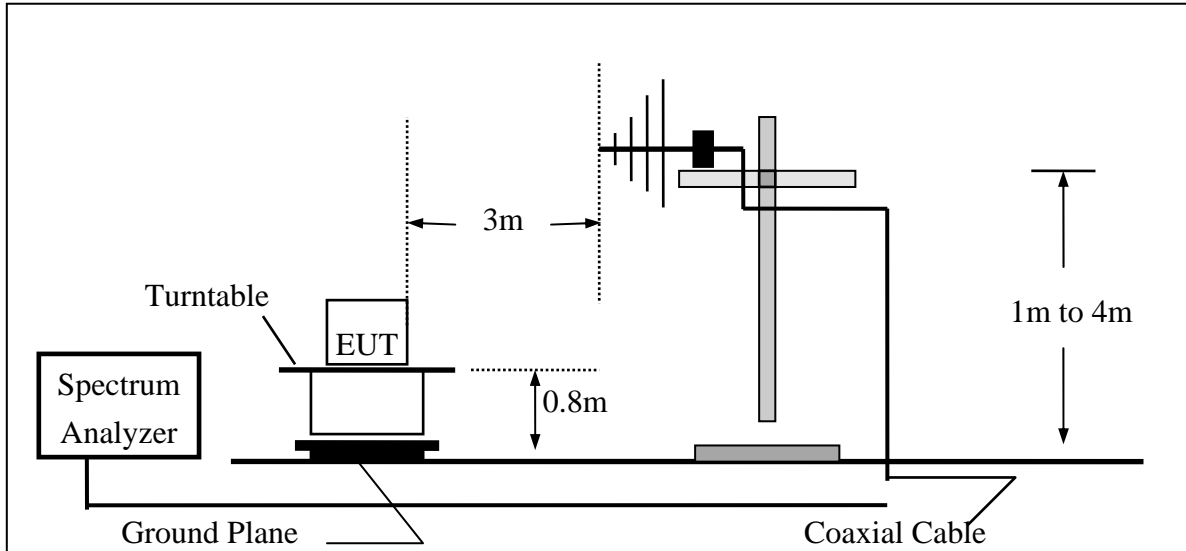
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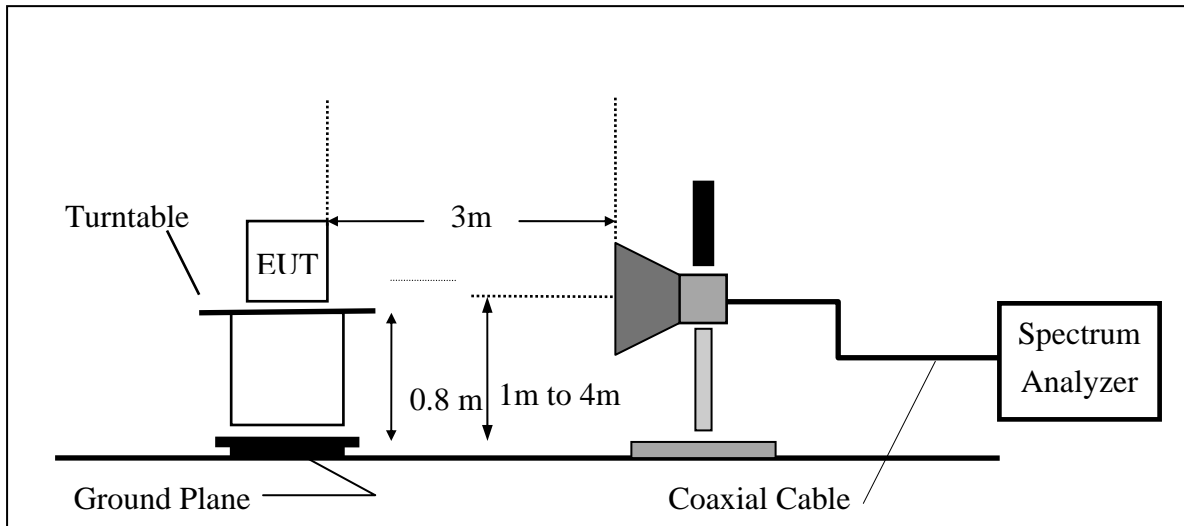


## 12.4 Test SET-UP (Block Diagram of Configuration)

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



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



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## 12.5 Measurement Equipment Used:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI7	100759	05/20/2011	05/19/2013
Spectrum Analyzer	Agilent	E4446A	MY51100003	04/15/2011	04/14/2013
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	02/15/2011	02/14/2013
Spectrum Analyzer	R&S	FSV-30	101398	10/18/2011	10/17/2013
Bilog Antenna	SCHWAZBECK	VULB9168	378	01/10/2012	01/09/2014
Horn antenna	ETS.LINDGREN	3117	123995	05/19/2011	05/18/2013
Horn Antenna	Schwarzbeck	BBHA9170	185	07/11/2011	07/10/2013
RF amplifier	Miteq	AMF-6F-2600 400-40-8P	971576	12/28/2011	12/27/2012
Pre-Amplifier	Agilent	8447D	2944A07676	01/04/2012	01/03/2013
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/04/2012	01/03/2013
5150-5350 Band Reject Filter	Micro-Tronics	BRM50703	1	01/04/2012	01/03/2013
5470-5725 Band Reject Filter	Micro-Tronics	BRM50704	1	01/04/2012	01/03/2013
5725-5875 Band Reject Filter	Micro-Tronics	BRM50705	1	01/04/2012	01/03/2013
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	02/28/2012	02/27/2013
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	02/28/2012	02/27/2013
Attenuator	Mini-Circuit	BW-S10W2+	002	02/28/2012	02/27/2013
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	01/04/2012	01/03/2013
3m Site NSA	SGS	966 chamber	N/A	07/15/2012	07/14/2013

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966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY51100003	04/15/2013	04/14/2014
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	02/06/2013	02/07/2014
RF amplifier	Miteq	AMF-6F-2600 400-40-8P	971576	01/29/2013	01/28/2014
Pre-Amplifier	Agilent	8447D	2944A07676	01/04/2013	01/03/2014
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/04/2013	01/03/2014
5150-5350 Band Reject Filter	Micro-Tronics	BRM50703	1	01/04/2013	01/03/2014
5470-5725 Band Reject Filter	Micro-Tronics	BRM50704	1	01/04/2013	01/03/2014
5725-5875 Band Reject Filter	Micro-Tronics	BRM50705	1	01/04/2013	01/03/2014
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	02/28/2013	02/27/2014
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	02/28/2013	02/27/2014
Attenuator	Mini-Circuit	BW-S10W2+	002	02/28/2013	02/27/2014
Low Loss Cable	Huber Suhner	966_Rx	9	01/04/2013	01/03/2014

*Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown above indicate those equipment of which has been subject to undertake the calibration in intermediate period of time of the measurement.*

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## 12.6 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	

## 12.7 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**

Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5180 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
31.94	S	Peak	30.94	-14.30	16.64	40.00	-23.36
114.39	S	Peak	31.99	-15.22	16.77	43.50	-26.73
251.16	S	Peak	27.83	-13.99	13.84	46.00	-32.16
461.65	S	Peak	28.13	-9.94	18.19	46.00	-27.81
589.69	S	Peak	28.73	-7.77	20.96	46.00	-25.04
879.72	S	Peak	28.12	-3.21	24.91	46.00	-21.09
10360.00	H	Peak	21.58	15.14	36.72	74.00	-37.28
10360.00	H	Peak	21.58	15.14	36.72	68.30	-31.58
15540.00	H	---					
20720.00	H	---					
25900.00	H	---					
31080.00	H	---					
36260.00	H	---					

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

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

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Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5180 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---“ : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
59.10	S	Peak	28.31	-14.51	13.80	40.00	-26.20
152.22	S	Peak	27.32	-12.32	15.00	43.50	-28.50
332.64	S	Peak	27.54	-11.89	15.65	46.00	-30.35
518.88	S	Peak	28.58	-9.24	19.34	46.00	-26.66
701.24	S	Peak	27.37	-5.73	21.64	46.00	-24.36
877.78	S	Peak	28.09	-3.25	24.84	46.00	-21.16
10360.00	H	Peak	18.65	15.17	33.82	74.00	-40.18
10360.00	H	Peak	18.65	15.17	33.82	68.30	-34.48
15540.00	H	---					
20720.00	H	---					
25900.00	H	---					
31080.00	H	---					
36260.00	H	---					

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

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Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5220 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
32.91	S	Peak	29.73	-14.24	15.49	40.00	-24.51
114.39	S	Peak	32.08	-15.22	16.86	43.50	-26.64
343.31	S	Peak	27.79	-11.76	16.03	46.00	-29.97
453.89	S	Peak	28.08	-9.99	18.09	46.00	-27.91
579.02	S	Peak	28.54	-8.01	20.53	46.00	-25.47
834.13	S	Peak	27.71	-3.85	23.86	46.00	-22.14
10440.00	H	Peak	23.21	14.92	38.13	74.00	-35.87
10440.00	H	Peak	23.21	14.92	38.13	68.30	-30.17
15660.00	H	---					
20880.00	H	---					
26100.00	H	---					
31320.00	H	---					
36540.00	H	---					

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

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

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Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5220 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
41.64	S	Peak	27.78	-13.56	14.22	40.00	-25.78
153.19	S	Peak	26.73	-12.32	14.41	43.50	-29.09
343.31	S	Peak	27.19	-11.76	15.43	46.00	-30.57
483.96	S	Peak	28.68	-9.77	18.91	46.00	-27.09
668.26	S	Peak	27.58	-6.23	21.35	46.00	-24.65
874.87	S	Peak	27.62	-3.30	24.32	46.00	-21.68
10440.00	H	Peak	18.87	15.00	33.87	74.00	-40.13
10440.00	H	Peak	18.87	15.00	33.87	68.30	-34.43
15660.00	H	---					
20880.00	H	---					
26100.00	H	---					
31320.00	H	---					
36540.00	H	---					

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

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Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5240 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---“ : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
30.97	S	Peak	30.97	-14.33	16.64	40.00	-23.36
114.39	S	Peak	33.14	-15.22	17.92	43.50	-25.58
286.08	S	Peak	27.46	-12.89	14.57	46.00	-31.43
393.75	S	Peak	28.22	-11.13	17.09	46.00	-28.91
546.04	S	Peak	28.06	-8.65	19.41	46.00	-26.59
883.60	S	Peak	28.25	-3.14	25.11	46.00	-20.89
10480.00	H	Peak	20.28	14.83	35.11	74.00	-38.89
10480.00	H	Peak	20.28	14.83	35.11	68.30	-33.19
15720.00	H	---					
20960.00	H	---					
26200.00	H	---					
31440.00	H	---					
36680.00	H	---					

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

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

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Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5240 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---“ : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
42.61	S	Peak	27.13	-13.63	13.50	40.00	-26.50
161.92	S	Peak	27.06	-12.43	14.63	43.50	-28.87
286.08	S	Peak	26.79	-12.89	13.90	46.00	-32.10
394.72	S	Peak	27.66	-11.14	16.52	46.00	-29.48
564.47	S	Peak	28.06	-8.28	19.78	46.00	-26.22
854.50	S	Peak	27.69	-3.62	24.07	46.00	-21.93
10480.00	H	Peak	18.72	14.92	33.64	74.00	-40.36
10480.00	H	Peak	18.72	14.92	33.64	68.30	-34.66
15720.00	H	---					
20960.00	H	---					
26200.00	H	---					
31440.00	H	---					
36680.00	H	---					

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

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Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5180 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX BANDEDGE	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---“ : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	E	Average	45.60	7.37	52.97	54.00	-1.03
5150.00	E	Peak	63.31	7.37	70.68	74.00	-3.32

Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5180 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX BANDEDGE	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---“ : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	E	Average	40.84	7.47	48.31	54.00	-5.69
5150.00	E	Peak	53.94	7.47	61.41	74.00	-12.59

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

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

Operation Band	:802.11n 20M	Test Date	:2012-11-28
Fundamental Frequency	:5180 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
30.97	S	Peak	30.59	-14.33	16.26	40.00	-23.74
114.39	S	Peak	32.13	-15.22	16.91	43.50	-26.59
343.31	S	Peak	28.22	-11.76	16.46	46.00	-29.54
528.58	S	Peak	28.61	-9.02	19.59	46.00	-26.41
647.89	S	Peak	28.88	-6.64	22.24	46.00	-23.76
924.34	S	Peak	26.99	-2.33	24.66	46.00	-21.34
10360.00	H	Peak	22.38	15.14	37.52	74.00	-36.48
10360.00	H	Peak	22.38	15.14	37.52	68.30	-30.78
15540.00	H	---					
20720.00	H	---					
25900.00	H	---					
31080.00	H	---					
36260.00	H	---					

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

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

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Operation Band	:802.11n 20M	Test Date	:2012-11-28
Fundamental Frequency	:5180 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---“ : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
41.64	S	Peak	27.40	-13.56	13.84	40.00	-26.16
158.04	S	Peak	27.34	-12.30	15.04	43.50	-28.46
325.85	S	Peak	27.11	-11.98	15.13	46.00	-30.87
492.69	S	Peak	28.52	-9.68	18.84	46.00	-27.16
708.03	S	Peak	28.31	-5.61	22.70	46.00	-23.30
958.29	S	Peak	28.31	-2.07	26.24	46.00	-19.76
10360.00	H	Peak	19.07	15.17	34.24	74.00	-39.76
10360.00	H	Peak	19.07	15.17	34.24	68.30	-34.06
15540.00	H	---					
20720.00	H	---					
25900.00	H	---					
31080.00	H	---					
36260.00	H	---					

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

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Operation Band	:802.11n 20M	Test Date	:2012-11-28
Fundamental Frequency	:5220 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
31.94	S	Peak	30.77	-14.30	16.47	40.00	-23.53
114.39	S	Peak	31.90	-15.22	16.68	43.50	-26.82
286.08	S	Peak	28.46	-12.89	15.57	46.00	-30.43
449.04	S	Peak	27.92	-10.04	17.88	46.00	-28.12
709.00	S	Peak	28.29	-5.60	22.69	46.00	-23.31
874.87	S	Peak	28.42	-3.30	25.12	46.00	-20.88
10440.00	H	Peak	22.96	14.92	37.88	74.00	-36.12
10440.00	H	Peak	22.96	14.92	37.88	68.30	-30.42
15660.00	H	---					
20880.00	H	---					
26100.00	H	---					
31320.00	H	---					
36540.00	H	---					

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

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

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Operation Band	:802.11n 20M	Test Date	:2012-11-28
Fundamental Frequency	:5220 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
36.79	S	Peak	28.34	-13.86	14.48	40.00	-25.52
149.31	S	Peak	26.68	-12.38	14.30	43.50	-29.20
286.08	S	Peak	27.50	-12.89	14.61	46.00	-31.39
462.62	S	Peak	28.62	-9.94	18.68	46.00	-27.32
637.22	S	Peak	28.35	-6.81	21.54	46.00	-24.46
787.57	S	Peak	28.47	-4.37	24.10	46.00	-21.90
10440.00	H	Peak	19.68	15.00	34.68	74.00	-39.32
10440.00	H	Peak	19.68	15.00	34.68	68.30	-33.62
15660.00	H	---					
20880.00	H	---					
26100.00	H	---					
31320.00	H	---					
36540.00	H	---					

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

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

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Operation Band	:802.11n 20M	Test Date	:2012-11-28
Fundamental Frequency	:5240 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
31.94	S	Peak	29.42	-14.30	15.12	40.00	-24.88
114.39	S	Peak	32.72	-15.22	17.50	43.50	-26.00
332.64	S	Peak	27.27	-11.89	15.38	46.00	-30.62
539.25	S	Peak	28.36	-8.79	19.57	46.00	-26.43
713.85	S	Peak	28.38	-5.53	22.85	46.00	-23.15
847.71	S	Peak	27.90	-3.72	24.18	46.00	-21.82
10480.00	H	Peak	21.42	14.83	36.25	74.00	-37.75
10480.00	H	Peak	21.42	14.83	36.25	68.30	-32.05
15720.00	H	---					
20960.00	H	---					
26200.00	H	---					
31440.00	H	---					
36680.00	H	---					

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

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Operation Band	:802.11n 20M	Test Date	:2012-11-28
Fundamental Frequency	:5240 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
42.61	S	Peak	27.05	-13.63	13.42	40.00	-26.58
160.95	S	Peak	27.24	-12.36	14.88	43.50	-28.62
343.31	S	Peak	27.53	-11.76	15.77	46.00	-30.23
505.30	S	Peak	28.47	-9.48	18.99	46.00	-27.01
691.54	S	Peak	27.81	-5.86	21.95	46.00	-24.05
925.31	S	Peak	28.09	-2.32	25.77	46.00	-20.23
10480.00	H	Peak	19.04	14.92	33.96	74.00	-40.04
10480.00	H	Peak	19.04	14.92	33.96	68.30	-34.34
15720.00	H	---					
20960.00	H	---					
26200.00	H	---					
31440.00	H	---					
36680.00	H	---					

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

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Operation Band	:802.11n 20M	Test Date	:2012-11-28
Fundamental Frequency	:5180 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX BANDEDGE	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---“ : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	E	Average	44.48	7.37	51.85	54.00	-2.15
5150.00	E	Peak	62.26	7.37	69.63	74.00	-4.37

Operation Band	:802.11n 20M	Test Date	:2012-11-28
Fundamental Frequency	:5180 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX BANDEDGE	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---“ : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	E	Average	40.61	7.47	48.08	54.00	-5.92
5150.00	E	Peak	52.92	7.47	60.39	74.00	-13.61

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

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

Operation Band	:802.11n 40M	Test Date	:2012-11-28
Fundamental Frequency	:5190 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---“ : denotes Noise Floor.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBµV		dBµV/m	dBµV/m	
31.94	S	Peak	29.93	-14.30	15.63	40.00	-24.37
114.39	S	Peak	32.21	-15.22	16.99	43.50	-26.51
286.08	S	Peak	27.58	-12.89	14.69	46.00	-31.31
530.52	S	Peak	28.11	-8.98	19.13	46.00	-26.87
694.45	S	Peak	27.55	-5.83	21.72	46.00	-24.28
885.54	S	Peak	27.53	-3.09	24.44	46.00	-21.56
10380.00	H	Peak	14.91	15.15	30.06	74.00	-43.94
10380.00	H	Peak	14.91	15.15	30.06	68.30	-38.24
15570.00	H	---					
20760.00	H	---					
25950.00	H	---					
31140.00	H	---					
36330.00	H	---					

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

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Operation Band	:802.11n 40M	Test Date	:2012-11-28
Fundamental Frequency	:5190 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---“ : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
40.67	S	Peak	27.93	-13.48	14.45	40.00	-25.55
158.04	S	Peak	26.88	-12.30	14.58	43.50	-28.92
288.99	S	Peak	27.46	-12.83	14.63	46.00	-31.37
418.97	S	Peak	28.85	-10.66	18.19	46.00	-27.81
581.93	S	Peak	28.49	-7.94	20.55	46.00	-25.45
776.90	S	Peak	28.50	-4.52	23.98	46.00	-22.02
10380.00	H	Peak	15.53	15.20	30.73	74.00	-43.27
10380.00	H	Peak	15.53	15.2	30.73	68.30	-37.57
15570.00	H	---					
20760.00	H	---					
25950.00	H	---					
31140.00	H	---					
36330.00	H	---					

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

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Operation Band	:802.11n 40M	Test Date	:2012-11-28
Fundamental Frequency	:5230 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
31.94	S	Peak	29.06	-14.30	14.76	40.00	-25.24
114.39	S	Peak	33.02	-15.22	17.80	43.50	-25.70
286.08	S	Peak	27.23	-12.89	14.34	46.00	-31.66
482.99	S	Peak	28.12	-9.78	18.34	46.00	-27.66
666.32	S	Peak	28.30	-6.27	22.03	46.00	-23.97
851.59	S	Peak	27.56	-3.67	23.89	46.00	-22.11
10460.00	H	Peak	16.09	14.88	30.97	74.00	-43.03
10460.00	H	Peak	16.09	14.88	30.97	68.30	-37.33
15690.00	H	---					
20920.00	H	---					
26150.00	H	---					
31380.00	H	---					
36610.00	H	---					

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

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

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Operation Band	:802.11n 40M	Test Date	:2012-11-28
Fundamental Frequency	:5230 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dB $\mu$ V/m) = SPA. Reading level(dB $\mu$ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB $\mu$ 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 PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
40.67	S	Peak	27.67	-13.48	14.19	40.00	-25.81
160.95	S	Peak	26.95	-12.36	14.59	43.50	-28.91
284.14	S	Peak	28.30	-12.94	15.36	46.00	-30.64
451.95	S	Peak	27.56	-10.01	17.55	46.00	-28.45
608.12	S	Peak	28.87	-7.38	21.49	46.00	-24.51
909.79	S	Peak	27.74	-2.62	25.12	46.00	-20.88
10460.00	H	Peak	15.19	14.96	30.15	74.00	-43.85
10460.00	H	Peak	15.19	14.96	30.15	68.30	-38.15
15690.00	H	---					
20920.00	H	---					
26150.00	H	---					
31380.00	H	---					
36610.00	H	---					

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

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Operation Band	:802.11n 40M	Test Date	:2012-11-28
Fundamental Frequency	:5190 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX BANDEDGE	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---“ : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	E	Average	45.02	7.37	52.39	54.00	-1.61
5150.00	E	Peak	58.45	7.37	65.82	74.00	-8.18

Operation Band	:802.11n 40M	Test Date	:2012-11-28
Fundamental Frequency	:5190 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX BANDEDGE	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---“ : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	E	Average	40.77	7.47	48.24	54.00	-5.76
5150.00	E	Peak	50.99	7.47	58.46	74.00	-15.54

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

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

Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5260 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
31.94	S	Peak	29.23	-14.30	14.93	40.00	-25.07
114.39	S	Peak	32.45	-15.22	17.23	43.50	-26.27
343.31	S	Peak	28.38	-11.76	16.62	46.00	-29.38
550.89	S	Peak	29.52	-8.56	20.96	46.00	-25.04
708.03	S	Peak	29.24	-5.61	23.63	46.00	-22.37
880.69	S	Peak	27.57	-3.19	24.38	46.00	-21.62
10520.00	H	Peak	21.95	14.69	36.64	74.00	-37.36
10520.00	H	Peak	21.95	14.69	36.64	68.30	-31.66
15780.00	H	---					
21040.00	H	---					
26300.00	H	---					
31560.00	H	---					
36820.00	H	---					

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

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Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5260 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
50.37	S	Peak	27.56	-13.93	13.63	40.00	-26.37
152.22	S	Peak	27.35	-12.32	15.03	43.50	-28.47
286.08	S	Peak	27.90	-12.89	15.01	46.00	-30.99
463.59	S	Peak	27.61	-9.92	17.69	46.00	-28.31
632.37	S	Peak	28.80	-6.90	21.90	46.00	-24.10
916.58	S	Peak	27.68	-2.49	25.19	46.00	-20.81
10520.00	H	Peak	19.99	14.78	34.77	74.00	-39.23
10520.00	H	Peak	19.99	14.78	34.77	68.30	-33.53
15780.00	H	---					
21040.00	H	---					
26300.00	H	---					
31560.00	H	---					
36820.00	H	---					

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

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Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5300 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---“ : denotes Noise Floor.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
31.94	S	Peak	30.02	-14.30	15.72	40.00	-24.28
114.39	S	Peak	31.93	-15.22	16.71	43.50	-26.79
323.91	S	Peak	26.81	-12.02	14.79	46.00	-31.21
479.11	S	Peak	28.81	-9.82	18.99	46.00	-27.01
634.31	S	Peak	28.47	-6.87	21.60	46.00	-24.40
915.61	S	Peak	28.15	-2.51	25.64	46.00	-20.36
10600.00	H	Peak	20.67	15.33	36.00	74.00	-38.00
10600.00	H	Peak	20.67	15.33	36.00	68.30	-32.30
15900.00	H	---					
21200.00	H	---					
26500.00	H	---					
31800.00	H	---					
37100.00	H	---					

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

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Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5300 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---“ : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
42.61	S	Peak	28.03	-13.63	14.40	40.00	-25.60
157.07	S	Peak	27.05	-12.29	14.76	43.50	-28.74
335.55	S	Peak	26.83	-11.86	14.97	46.00	-31.03
464.56	S	Peak	28.77	-9.92	18.85	46.00	-27.15
706.09	S	Peak	28.65	-5.65	23.00	46.00	-23.00
925.31	S	Peak	28.27	-2.32	25.95	46.00	-20.05
10600.00	H	Peak	19.56	15.35	34.91	74.00	-39.09
10600.00	H	Peak	19.56	15.35	34.91	68.30	-33.39
15900.00	H	---					
21200.00	H	---					
26500.00	H	---					
31800.00	H	---					
37100.00	H	---					

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

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Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5320 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
61.04	S	Peak	29.37	-14.78	14.59	40.00	-25.41
114.39	S	Peak	32.63	-15.22	17.41	43.50	-26.09
386.96	S	Peak	28.98	-11.19	17.79	46.00	-28.21
543.13	S	Peak	29.60	-8.73	20.87	46.00	-25.13
711.91	S	Peak	28.11	-5.55	22.56	46.00	-23.44
987.39	S	Peak	29.83	-1.91	27.92	54.00	-26.08
10640.00	H	Peak	18.36	15.72	34.08	74.00	-39.92
10640.00	H	Peak	18.36	15.72	34.08	68.30	-34.22
15960.00	H	---					
21280.00	H	---					
26600.00	H	---					
31920.00	H	---					
37240.00	H	---					

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

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Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5320 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
44.55	S	Peak	27.54	-13.76	13.78	40.00	-26.22
160.95	S	Peak	27.01	-12.36	14.65	43.50	-28.85
343.31	S	Peak	27.40	-11.76	15.64	46.00	-30.36
502.39	S	Peak	28.72	-9.54	19.18	46.00	-26.82
671.17	S	Peak	27.88	-6.17	21.71	46.00	-24.29
898.15	S	Peak	28.16	-2.85	25.31	46.00	-20.69
10640.00	H	Peak	18.68	15.71	34.39	74.00	-39.61
10640.00	H	Peak	18.68	15.71	34.39	68.30	-33.91
15960.00	H	---					
21280.00	H	---					
26600.00	H	---					
31920.00	H	---					
37240.00	H	---					

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

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

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Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5320 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX BANDEDGE	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---“ : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	E	Average	42.61	8.02	50.63	54.00	-3.37
5350.00	E	Peak	54.02	8.02	62.04	74.00	-11.96

Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5320 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX BANDEDGE	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---“ : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	E	Average	40.89	8.32	49.21	54.00	-4.79
5350.00	E	Peak	52.52	8.32	60.84	74.00	-13.16

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

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

Operation Band	:802.11n 20M	Test Date	:2012-11-28
Fundamental Frequency	:5260 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.97	S	Peak	30.66	-14.33	16.33	40.00	-23.67
114.39	S	Peak	32.77	-15.22	17.55	43.50	-25.95
385.02	S	Peak	27.05	-11.22	15.83	46.00	-30.17
582.90	S	Peak	28.36	-7.92	20.44	46.00	-25.56
799.21	S	Peak	28.38	-4.21	24.17	46.00	-21.83
944.71	S	Peak	27.75	-2.14	25.61	46.00	-20.39
10520.00	H	Peak	21.22	14.69	35.91	74.00	-38.09
10520.00	H	Peak	21.22	14.69	35.91	68.30	-32.39
15780.00	H	---					
21040.00	H	---					
26300.00	H	---					
31560.00	H	---					
36820.00	H	---					

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.  
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Operation Band	:802.11n 20M	Test Date	:2012-11-28
Fundamental Frequency	:5260 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
51.34	S	Peak	27.68	-13.99	13.69	40.00	-26.31
146.40	S	Peak	27.16	-12.60	14.56	43.50	-28.94
329.73	S	Peak	27.22	-11.92	15.30	46.00	-30.70
494.63	S	Peak	28.86	-9.65	19.21	46.00	-26.79
696.39	S	Peak	28.61	-5.79	22.82	46.00	-23.18
904.94	S	Peak	27.02	-2.70	24.32	46.00	-21.68
10520.00	H	Peak	19.64	14.78	34.42	74.00	-39.58
10520.00	H	Peak	19.64	14.78	34.42	68.30	-33.88
15780.00	H	---					
21040.00	H	---					
26300.00	H	---					
31560.00	H	---					
36820.00	H	---					

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

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Operation Band	:802.11n 20M	Test Date	:2012-11-28
Fundamental Frequency	:5300 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---“ : denotes Noise Floor.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
61.04	S	Peak	28.17	-14.78	13.39	40.00	-26.61
114.39	S	Peak	32.71	-15.22	17.49	43.50	-26.01
343.31	S	Peak	27.87	-11.76	16.11	46.00	-29.89
435.46	S	Peak	28.30	-10.31	17.99	46.00	-28.01
619.76	S	Peak	28.28	-7.13	21.15	46.00	-24.85
847.71	S	Peak	28.15	-3.72	24.43	46.00	-21.57
10600.00	H	Peak	20.94	15.33	36.27	74.00	-37.73
10600.00	H	Peak	20.94	15.33	36.27	68.30	-32.03
15900.00	H	---					
21200.00	H	---					
26500.00	H	---					
31800.00	H	---					
37100.00	H	---					

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

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Operation Band	:802.11n 20M	Test Date	:2012-11-28
Fundamental Frequency	:5300 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dB $\mu$ V/m) = SPA. Reading level(dB $\mu$ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB $\mu$ 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.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
60.07	S	Peak	27.85	-14.59	13.26	40.00	-26.74
153.19	S	Peak	27.13	-12.32	14.81	43.50	-28.69
272.50	S	Peak	27.49	-13.28	14.21	46.00	-31.79
478.14	S	Peak	28.50	-9.82	18.68	46.00	-27.32
676.99	S	Peak	27.93	-6.09	21.84	46.00	-24.16
881.66	S	Peak	27.75	-3.17	24.58	46.00	-21.42
10600.00	H	Peak	18.80	15.35	34.15	74.00	-39.85
10600.00	H	Peak	18.80	15.35	34.15	68.30	-34.15
15900.00	H	---					
21200.00	H	---					
26500.00	H	---					
31800.00	H	---					
37100.00	H	---					

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

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Operation Band	:802.11n 20M	Test Date	:2012-11-28
Fundamental Frequency	:5320 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.97	S	Peak	31.90	-14.33	17.57	40.00	-22.43
114.39	S	Peak	32.62	-15.22	17.40	43.50	-26.10
286.08	S	Peak	28.53	-12.89	15.64	46.00	-30.36
534.40	S	Peak	28.47	-8.91	19.56	46.00	-26.44
701.24	S	Peak	28.21	-5.73	22.48	46.00	-23.52
882.63	S	Peak	28.92	-3.15	25.77	46.00	-20.23
10640.00	H	Peak	20.29	15.72	36.01	74.00	-37.99
10640.00	H	Peak	20.29	15.72	36.01	68.30	-32.29
15960.00	H	---					
21280.00	H	---					
26600.00	H	---					
31920.00	H	---					
37240.00	H	---					

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

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Operation Band	:802.11n 20M	Test Date	:2012-11-28
Fundamental Frequency	:5320 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
46.49	S	Peak	26.97	-13.80	13.17	40.00	-26.83
161.92	S	Peak	27.49	-12.43	15.06	43.50	-28.44
331.67	S	Peak	27.76	-11.90	15.86	46.00	-30.14
457.77	S	Peak	28.07	-9.99	18.08	46.00	-27.92
630.43	S	Peak	28.69	-6.92	21.77	46.00	-24.23
918.52	S	Peak	27.22	-2.44	24.78	46.00	-21.22
10640.00	H	Peak	18.10	15.71	33.81	74.00	-40.19
10640.00	H	Peak	18.10	15.71	33.81	68.30	-34.49
15960.00	H	---					
21280.00	H	---					
26600.00	H	---					
31920.00	H	---					
37240.00	H	---					

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

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Operation Band	:802.11n 20M	Test Date	2012-11-24
Fundamental Frequency	:5320 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX BANDEDGE	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---“ : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	E	Average	42.68	8.02	50.70	54.00	-3.30
5350.00	E	Peak	57.05	8.02	65.07	74.00	-8.93

Operation Band	:802.11n 20M	Test Date	:2012-11-28
Fundamental Frequency	:5320 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX BANDEDGE	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---“ : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	E	Average	42.24	8.32	50.56	54.00	-3.44
5350.00	E	Peak	52.36	8.32	60.68	74.00	-13.32

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

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

Operation Band	:802.11n 40M	Test Date	:2012-11-28
Fundamental Frequency	:5270 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.97	S	Peak	32.04	-14.33	17.71	40.00	-22.29
114.39	S	Peak	32.67	-15.22	17.45	43.50	-26.05
343.31	S	Peak	28.50	-11.76	16.74	46.00	-29.26
537.31	S	Peak	28.05	-8.84	19.21	46.00	-26.79
749.74	S	Peak	27.74	-4.96	22.78	46.00	-23.22
915.61	S	Peak	28.04	-2.51	25.53	46.00	-20.47
10540.00	H	Peak	14.82	14.83	29.65	74.00	-44.35
10540.00	H	Peak	14.82	14.83	29.65	68.30	-38.65
15810.00	H	---					
21080.00	H	---					
26350.00	H	---					
31620.00	H	---					
36890.00	H	---					

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

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

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Operation Band	:802.11n 40M	Test Date	:2012-11-28
Fundamental Frequency	:5270 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dB $\mu$ V/m) = SPA. Reading level(dB $\mu$ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB $\mu$ 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.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
44.55	S	Peak	27.13	-13.76	13.37	40.00	-26.63
164.83	S	Peak	27.46	-12.69	14.77	43.50	-28.73
347.19	S	Peak	26.78	-11.72	15.06	46.00	-30.94
504.33	S	Peak	28.36	-9.50	18.86	46.00	-27.14
717.73	S	Peak	28.15	-5.46	22.69	46.00	-23.31
922.40	S	Peak	27.95	-2.37	25.58	46.00	-20.42
10540.00	H	Peak	14.88	14.90	29.78	74.00	-44.22
10540.00	H	Peak	14.88	14.90	29.78	68.30	-38.52
15810.00	H	---					
21080.00	H	---					
26350.00	H	---					
31620.00	H	---					
36890.00	H	---					

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

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

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Operation Band	:802.11n 40M	Test Date	:2012-11-28
Fundamental Frequency	:5310 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.97	S	Peak	31.20	-14.33	16.87	40.00	-23.13
114.39	S	Peak	33.35	-15.22	18.13	43.50	-25.37
286.08	S	Peak	27.77	-12.89	14.88	46.00	-31.12
507.24	S	Peak	28.06	-9.45	18.61	46.00	-27.39
741.98	S	Peak	27.95	-5.10	22.85	46.00	-23.15
935.01	S	Peak	27.84	-2.24	25.60	46.00	-20.40
10620.00	H	Peak	14.90	15.50	30.40	74.00	-43.60
10620.00	H	Peak	14.90	15.50	30.40	68.30	-37.90
15930.00	H	---					
21240.00	H	---					
26550.00	H	---					
31860.00	H	---					
37170.00	H	---					

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

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Operation Band	:802.11n 40M	Test Date	:2012-11-28
Fundamental Frequency	:5310 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
42.61	S	Peak	27.04	-13.63	13.41	40.00	-26.59
150.28	S	Peak	26.62	-12.35	14.27	43.50	-29.23
328.76	S	Peak	27.25	-11.94	15.31	46.00	-30.69
498.51	S	Peak	28.47	-9.61	18.86	46.00	-27.14
665.35	S	Peak	28.66	-6.28	22.38	46.00	-23.62
846.74	S	Peak	27.53	-3.72	23.81	46.00	-22.19
10620.00	H	Peak	15.32	15.51	30.83	74.00	-43.17
10620.00	H	Peak	15.32	15.51	30.83	68.30	-37.47
15930.00	H	---					
21240.00	H	---					
26550.00	H	---					
31860.00	H	---					
37170.00	H	---					

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

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Operation Band	:802.11n 40M	Test Date	:2012-11-28
Fundamental Frequency	:5310 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX BANDEDGE	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---“ : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	E	Average	44.52	8.02	52.54	54.00	-1.46
5350.00	E	Peak	56.10	8.02	64.12	74.00	-9.88

Operation Band	:802.11n 40M	Test Date	:2012-11-28
Fundamental Frequency	:5310 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX BANDEDGE	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---“ : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	E	Average	42.41	8.32	50.73	54.00	-3.27
5350.00	E	Peak	53.36	8.32	61.68	74.00	-12.32

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

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

Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5500 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
47.46	S	Peak	27.80	-13.85	13.95	40.00	-26.05
114.39	S	Peak	33.01	-15.22	17.79	43.50	-25.71
343.31	S	Peak	28.66	-11.76	16.90	46.00	-29.10
541.19	S	Peak	29.28	-8.76	20.52	46.00	-25.48
766.23	S	Peak	27.98	-4.69	23.29	46.00	-22.71
926.28	S	Peak	27.51	-2.31	25.20	46.00	-20.80
11000.00	H	Peak	17.07	16.54	33.61	74.00	-40.39
11000.00	H	Peak	17.07	16.54	33.61	68.30	-34.69
16500.00	H	---					
22000.00	H	---					
27500.00	H	---					
33000.00	H	---					
38500.00	H	---					

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

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

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Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5500 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dB $\mu$ V/m) = SPA. Reading level(dB $\mu$ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB $\mu$ 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 PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
50.37	S	Peak	27.33	-13.93	13.40	40.00	-26.60
161.92	S	Peak	27.97	-12.43	15.54	43.50	-27.96
237.58	S	Peak	27.88	-14.28	13.60	46.00	-32.40
450.98	S	Peak	28.76	-10.01	18.75	46.00	-27.25
681.84	S	Peak	28.76	-5.99	22.77	46.00	-23.23
915.61	S	Peak	27.71	-2.51	25.20	46.00	-20.80
11000.00	H	Peak	17.51	16.44	33.95	74.00	-40.05
11000.00	H	Peak	17.51	16.44	33.95	68.30	-34.35
16500.00	H	---					
22000.00	H	---					
27500.00	H	---					
33000.00	H	---					
38500.00	H	---					

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

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

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Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5580 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.97	S	Peak	31.40	-14.33	17.07	40.00	-22.93
114.39	S	Peak	32.17	-15.22	16.95	43.50	-26.55
378.23	S	Peak	27.85	-11.31	16.54	46.00	-29.46
573.20	S	Peak	28.85	-8.13	20.72	46.00	-25.28
733.25	S	Peak	28.28	-5.24	23.04	46.00	-22.96
934.04	S	Peak	27.68	-2.25	25.43	46.00	-20.57
11160.00	H	Peak	14.05	16.93	30.98	74.00	-43.02
11160.00	H	Peak	14.05	16.93	30.98	68.30	-37.32
16740.00	H	---					
22320.00	H	---					
27900.00	H	---					
33480.00	H	---					
39060.00	H	---					

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

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Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5580 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
51.34	S	Peak	26.81	-13.99	12.82	40.00	-27.18
154.16	S	Peak	27.94	-12.30	15.64	43.50	-27.86
343.31	S	Peak	27.56	-11.76	15.80	46.00	-30.20
461.65	S	Peak	28.67	-9.94	18.73	46.00	-27.27
673.11	S	Peak	28.09	-6.14	21.95	46.00	-24.05
891.36	S	Peak	28.80	-2.98	25.82	46.00	-20.18
11160.00	H	Peak	14.25	16.70	30.95	74.00	-43.05
11160.00	H	Peak	14.25	16.70	30.95	68.30	-37.35
16740.00	H	---					
22320.00	H	---					
27900.00	H	---					
33480.00	H	---					
39060.00	H	---					

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

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Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5700 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.97	S	Peak	31.91	-14.33	17.58	40.00	-22.42
114.39	S	Peak	32.05	-15.22	16.83	43.50	-26.67
286.08	S	Peak	27.92	-12.89	15.03	46.00	-30.97
553.80	S	Peak	28.28	-8.51	19.77	46.00	-26.23
744.89	S	Peak	27.72	-5.06	22.66	46.00	-23.34
927.25	S	Peak	27.44	-2.30	25.14	46.00	-20.86
11400.00	H	Peak	15.26	17.30	32.56	74.00	-41.44
11400.00	H	Peak	15.26	17.30	32.56	68.30	-35.74
17100.00	H	---					
22800.00	H	---					
28500.00	H	---					
34200.00	H	---					
39900.00	H	---					

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

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Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5700 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---“ : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
42.61	S	Peak	27.95	-13.63	14.32	40.00	-25.68
159.98	S	Peak	26.83	-12.26	14.57	43.50	-28.93
331.67	S	Peak	27.77	-11.90	15.87	46.00	-30.13
530.52	S	Peak	28.38	-8.98	19.40	46.00	-26.60
717.73	S	Peak	28.77	-5.46	23.31	46.00	-22.69
946.65	S	Peak	27.64	-2.12	25.52	46.00	-20.48
11400.00	H	Peak	15.22	17.06	32.28	74.00	-41.72
11400.00	H	Peak	15.22	17.06	32.28	68.30	-36.02
17100.00	H	---					
22800.00	H	---					
28500.00	H	---					
34200.00	H	---					
39900.00	H	---					

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

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Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5500 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX BANDEDGE	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---“ : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	E	Average	41.60	7.77	49.37	54.00	-4.63
5460.00	E	Peak	49.98	7.77	57.75	74.00	-16.25

Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5500 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX BANDEDGE	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---“ : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	E	Average	41.16	8.07	49.23	54.00	-4.77
5460.00	E	Peak	50.58	8.07	58.65	74.00	-15.35

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

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Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23.4deg_C / 57 RH
Operation Mode	:Bandedge LOW	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---“ : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5470.00	E	Peak	57.17	7.78	64.95	68.30	-3.35

Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23.4deg_C / 57 RH
Operation Mode	:Bandedge LOW	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---“ : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5470.00	E	Peak	57.30	8.08	65.38	68.30	-2.92

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

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Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23.4deg_C / 57 RH
Operation Mode	:Bandedge HIGH	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---“ : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	52.43	8.38	60.81	68.30	-7.49

Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23.4deg_C / 57 RH
Operation Mode	:Bandedge HIGH	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---“ : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	48.50	8.68	57.18	68.30	-11.12

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

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

Operation Band	:802.11n 20M	Test Date	:2012-11-28
Fundamental Frequency	:5500 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---“ : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
30.97	S	Peak	31.54	-14.33	17.21	40.00	-22.79
114.39	S	Peak	32.25	-15.22	17.03	43.50	-26.47
300.63	S	Peak	27.37	-12.55	14.82	46.00	-31.18
503.36	S	Peak	27.91	-9.52	18.39	46.00	-27.61
702.21	S	Peak	27.67	-5.71	21.96	46.00	-24.04
855.47	S	Peak	28.57	-3.60	24.97	46.00	-21.03
11000.00	H	Peak	15.07	16.54	31.61	74.00	-42.39
11000.00	H	Peak	15.07	16.54	31.61	68.30	-36.69
16500.00	H	---					
22000.00	H	---					
27500.00	H	---					
33000.00	H	---					
38500.00	H	---					

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

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Operation Band	:802.11n 20M	Test Date	:2012-11-28
Fundamental Frequency	:5500 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
40.67	S	Peak	27.42	-13.48	13.94	40.00	-26.06
153.19	S	Peak	26.85	-12.32	14.53	43.50	-28.97
286.08	S	Peak	28.01	-12.89	15.12	46.00	-30.88
467.47	S	Peak	28.70	-9.91	18.79	46.00	-27.21
644.01	S	Peak	28.76	-6.70	22.06	46.00	-23.94
898.15	S	Peak	27.54	-2.85	24.69	46.00	-21.31
11000.00	H	Peak	16.51	16.44	32.95	74.00	-41.05
11000.00	H	Peak	16.51	16.44	32.95	68.30	-35.35
16500.00	H	---					
22000.00	H	---					
27500.00	H	---					
33000.00	H	---					
38500.00	H	---					

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

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Operation Band	:802.11n 20M	Test Date	:2012-11-28
Fundamental Frequency	:5580 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---“ : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
30.97	S	Peak	32.75	-14.33	18.42	40.00	-21.58
114.39	S	Peak	31.97	-15.22	16.75	43.50	-26.75
286.08	S	Peak	27.76	-12.89	14.87	46.00	-31.13
493.66	S	Peak	28.33	-9.66	18.67	46.00	-27.33
674.08	S	Peak	28.46	-6.12	22.34	46.00	-23.66
887.48	S	Peak	27.35	-3.06	24.29	46.00	-21.71
11160.00	H	Peak	14.11	16.93	31.04	74.00	-42.96
11160.00	H	Peak	14.11	16.93	31.04	68.30	-37.26
16740.00	H	---					
22320.00	H	---					
27900.00	H	---					
33480.00	H	---					
39060.00	H	---					

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

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

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Operation Band	:802.11n 20M	Test Date	:2012-11-28
Fundamental Frequency	:5580 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
39.70	S	Peak	27.09	-13.47	13.62	40.00	-26.38
159.01	S	Peak	27.00	-12.28	14.72	43.50	-28.78
413.15	S	Peak	28.02	-10.78	17.24	46.00	-28.76
579.02	S	Peak	28.46	-8.01	20.45	46.00	-25.55
747.80	S	Peak	27.90	-5.01	22.89	46.00	-23.11
932.10	S	Peak	28.65	-2.27	26.38	46.00	-19.62
11160.00	H	Peak	14.87	16.70	31.57	74.00	-42.43
11160.00	H	Peak	14.87	16.70	31.57	68.30	-36.73
16740.00	H	---					
22320.00	H	---					
27900.00	H	---					
33480.00	H	---					
39060.00	H	---					

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

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

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Operation Band	:802.11n 20M	Test Date	:2012-11-28
Fundamental Frequency	:5700 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.97	S	Peak	31.84	-14.33	17.51	40.00	-22.49
114.39	S	Peak	32.31	-15.22	17.09	43.50	-26.41
286.08	S	Peak	27.37	-12.89	14.48	46.00	-31.52
455.83	S	Peak	28.43	-9.99	18.44	46.00	-27.56
628.49	S	Peak	28.39	-6.96	21.43	46.00	-24.57
874.87	S	Peak	27.91	-3.30	24.61	46.00	-21.39
11400.00	H	Peak	15.55	17.30	32.85	74.00	-41.15
11400.00	H	Peak	15.55	17.3	32.85	68.30	-35.45
17100.00	H	---					
22800.00	H	---					
28500.00	H	---					
34200.00	H	---					
39900.00	H	---					

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

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

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Operation Band	:802.11n 20M	Test Date	:2012-11-28
Fundamental Frequency	:5700 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
46.49	S	Peak	27.33	-13.80	13.53	40.00	-26.47
157.07	S	Peak	27.50	-12.29	15.21	43.50	-28.29
310.33	S	Peak	26.78	-12.32	14.46	46.00	-31.54
535.37	S	Peak	29.30	-8.89	20.41	46.00	-25.59
729.37	S	Peak	28.42	-5.30	23.12	46.00	-22.88
909.79	S	Peak	27.59	-2.62	24.97	46.00	-21.03
11400.00	H	Peak	15.41	17.06	32.47	74.00	-41.53
11400.00	H	Peak	15.41	17.06	32.47	68.30	-35.83
17100.00	H	---					
22800.00	H	---					
28500.00	H	---					
34200.00	H	---					
39900.00	H	---					

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

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

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Operation Band	:802.11n 20M	Test Date	:2012-11-28
Fundamental Frequency	:5500 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX BANDEDGE	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	E	Average	41.47	7.77	49.24	54.00	-4.76
5460.00	E	Peak	51.18	7.77	58.95	74.00	-15.05

Operation Band	:802.11n 20M	Test Date	:2012-11-28
Fundamental Frequency	:5500 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX BANDEDGE	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	E	Average	41.17	8.07	49.24	54.00	-4.76
5460.00	E	Peak	51.58	8.07	59.65	74.00	-14.35

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

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Operation Band	:802.11 n20	Test Date	:2013-05-03
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23.4deg_C / 57 RH
Operation Mode	:Bandedge LOW	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5470.00	E	Peak	54.82	7.78	62.60	68.30	-5.70

Operation Band	:802.11 n20	Test Date	:2013-05-03
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23.4deg_C / 57 RH
Operation Mode	:Bandedge LOW	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5470.00	E	Peak	55.96	8.08	64.04	68.30	-4.26

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

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

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Operation Band	:802.11 n20	Test Date	:2013-05-03
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23.4deg_C / 57 RH
Operation Mode	:Bandedge HIGH	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---“ : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	58.25	8.38	66.63	68.30	-1.67

Operation Band	:802.11 n20	Test Date	:2013-05-03
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23.4deg_C / 57 RH
Operation Mode	:Bandedge HIGH	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---“ : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	50.12	8.68	58.80	68.30	-9.50

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

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

Operation Band	:802.11n 40M	Test Date	:2012-11-28
Fundamental Frequency	:5510 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
30.00	S	Peak	32.34	-14.37	17.97	40.00	-22.03
114.39	S	Peak	31.79	-15.22	16.57	43.50	-26.93
334.58	S	Peak	28.06	-11.87	16.19	46.00	-29.81
511.12	S	Peak	28.21	-9.38	18.83	46.00	-27.17
670.20	S	Peak	27.81	-6.20	21.61	46.00	-24.39
833.16	S	Peak	28.14	-3.85	24.29	46.00	-21.71
11020.00	H	Peak	15.76	16.58	32.34	74.00	-41.66
11020.00	H	Peak	15.76	16.58	32.34	68.30	-35.96
16530.00	H	---					
22040.00	H	---					
27550.00	H	---					
33060.00	H	---					
38570.00	H	---					

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

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

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Operation Band	:802.11n 40M	Test Date	:2012-11-28
Fundamental Frequency	:5510 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---“ : denotes Noise Floor.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
44.55	S	Peak	27.19	-13.76	13.43	40.00	-26.57
165.80	S	Peak	27.80	-12.77	15.03	43.50	-28.47
325.85	S	Peak	27.28	-11.98	15.30	46.00	-30.70
512.09	S	Peak	27.75	-9.36	18.39	46.00	-27.61
705.12	S	Peak	28.16	-5.66	22.50	46.00	-23.50
930.16	S	Peak	27.28	-2.28	25.00	46.00	-21.00
11020.00	H	Peak	14.41	16.46	30.87	74.00	-43.13
11020.00	H	Peak	14.41	16.46	30.87	68.30	-37.43
16530.00	H	---					
22040.00	H	---					
27550.00	H	---					
33060.00	H	---					
38570.00	H	---					

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

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Operation Band	:802.11n 40M	Test Date	:2012-11-28
Fundamental Frequency	:5590 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.97	S	Peak	32.25	-14.33	17.92	40.00	-22.08
114.39	S	Peak	32.32	-15.22	17.10	43.50	-26.40
410.24	S	Peak	27.18	-10.84	16.34	46.00	-29.66
550.89	S	Peak	28.05	-8.56	19.49	46.00	-26.51
709.00	S	Peak	27.98	-5.60	22.38	46.00	-23.62
891.36	S	Peak	27.68	-2.98	24.70	46.00	-21.30
11180.00	H	Peak	15.17	16.99	32.16	74.00	-41.84
11180.00	H	Peak	15.17	16.99	32.16	68.30	-36.14
16770.00	H	---					
22360.00	H	---					
27950.00	H	---					
33540.00	H	---					
39130.00	H	---					

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

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Operation Band	:802.11n 40M	Test Date	:2012-11-28
Fundamental Frequency	:5590 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dB $\mu$ V/m) = SPA. Reading level(dB $\mu$ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB $\mu$ 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.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
45.52	S	Peak	27.67	-13.82	13.85	40.00	-26.15
145.43	S	Peak	27.04	-12.68	14.36	43.50	-29.14
298.69	S	Peak	26.50	-12.60	13.90	46.00	-32.10
456.80	S	Peak	28.40	-10.00	18.40	46.00	-27.60
652.74	S	Peak	28.03	-6.53	21.50	46.00	-24.50
876.81	S	Peak	27.87	-3.27	24.60	46.00	-21.40
11180.00	H	Peak	13.93	16.75	30.68	74.00	-43.32
11180.00	H	Peak	13.93	16.75	30.68	68.30	-37.62
16770.00	H	---					
22360.00	H	---					
27950.00	H	---					
33540.00	H	---					
39130.00	H	---					

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

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

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Operation Band	:802.11n 40M	Test Date	:2012-11-28
Fundamental Frequency	:5670 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.97	S	Peak	32.28	-14.33	17.95	40.00	-22.05
114.39	S	Peak	32.70	-15.22	17.48	43.50	-26.02
343.31	S	Peak	27.56	-11.76	15.80	46.00	-30.20
503.36	S	Peak	29.17	-9.52	19.65	46.00	-26.35
635.28	S	Peak	28.35	-6.85	21.50	46.00	-24.50
806.97	S	Peak	28.60	-4.11	24.49	46.00	-21.51
11340.00	H	Peak	14.56	17.24	31.80	74.00	-42.20
11340.00	H	Peak	14.56	17.24	31.80	68.30	-36.50
17010.00	H	---					
22680.00	H	---					
28350.00	H	---					
34020.00	H	---					
39690.00	H	---					

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

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

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Operation Band	:802.11n 40M	Test Date	:2012-11-28
Fundamental Frequency	:5670 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
40.67	S	Peak	27.48	-13.48	14.00	40.00	-26.00
157.07	S	Peak	27.54	-12.29	15.25	43.50	-28.25
314.21	S	Peak	27.12	-12.23	14.89	46.00	-31.11
549.92	S	Peak	27.74	-8.58	19.16	46.00	-26.84
709.97	S	Peak	28.14	-5.59	22.55	46.00	-23.45
913.67	S	Peak	27.32	-2.56	24.76	46.00	-21.24
11340.00	H	Peak	14.24	16.98	31.22	74.00	-42.78
11340.00	H	Peak	14.24	16.98	31.22	68.30	-37.08
17010.00	H	---					
22680.00	H	---					
28350.00	H	---					
34020.00	H	---					
39690.00	H	---					

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

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Operation Band	:802.11n 40M	Test Date	:2012-11-28
Fundamental Frequency	:5510 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX BANDEDGE	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---“ : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	E	Average	44.57	7.77	52.34	54.00	-1.66
5460.00	E	Peak	56.00	7.77	63.77	74.00	-10.23

Operation Band	:802.11n 40M	Test Date	:2012-11-28
Fundamental Frequency	:5510 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX BANDEDGE	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---“ : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	E	Average	42.67	8.07	50.74	54.00	-3.26
5460.00	E	Peak	57.36	8.07	65.43	74.00	-8.57

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

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Operation Band	:802.11 n40	Test Date	:2013-05-03
Fundamental Frequency	:5510 MHz	Temp./Humi.	:23.4deg_C / 57 RH
Operation Mode	:Bandedge LOW	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---“ : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5470.00	E	Peak	50.68	7.78	58.46	68.30	-9.84

Operation Band	:802.11 n40	Test Date	:2013-05-03
Fundamental Frequency	:5510 MHz	Temp./Humi.	:23.4deg_C / 57 RH
Operation Mode	:Bandedge LOW	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---“ : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5470.00	E	Peak	53.36	8.08	61.44	68.30	-6.86

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

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Operation Band	:802.11 n40	Test Date	:2013-05-03
Fundamental Frequency	:5670 MHz	Temp./Humi.	:23.4deg_C / 57 RH
Operation Mode	:Bandedge HIGH	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---“ : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	55.06	8.38	63.44	68.30	-4.86

Operation Band	:802.11 n40	Test Date	:2013-05-03
Fundamental Frequency	:5670 MHz	Temp./Humi.	:23.4deg_C / 57 RH
Operation Mode	:Bandedge HIGH	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---“ : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	53.09	8.68	61.77	68.30	-6.53

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

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## 13. TRANSMISSION IN THE ABSENCE OF DATA

### 13.1 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 signalling 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.

According to RSS-210 A9.4(4)

The device shall automatically discontinue transmission in case of absence of information to transmit, or operational failure. A description on how this is done shall accompany the application for equipment certification. Note that this is not intended to prohibit transmission of control or signalling information or the use of repetitive codes where required by the technology.

### 13.2 Result:

No non-compliance noted:

Refer to the theory of operation.

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## 14. FREQUENCY STABILITY

### 14.1 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.

### 14.2 Result:

Refer to next page for plots.

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Operation Mode	802.11 a	Test Date	2012,11,30
Temperature	:25 °C	Test By	Nick
Humidity	:62 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
25 °C	3.7V	36	5180.0000	5,180.026700	-0.0267
		44	5220.0000	5,220.027460	-0.0275
		48	5240.0000	5,240.027830	-0.0278
		52	5260.0000	5,260.027990	-0.0280
		60	5300.0000	5,300.028370	-0.0284
		64	5320.0000	5,320.027930	-0.0279
		100	5500.0000	5,500.028740	-0.0287
		116	5580.0000	5,580.024910	-0.0249
		140	5700.0000	5,700.024600	-0.0246
60 °C	3.4V	36	5180.0000	5,179.983940	0.0161
		44	5220.0000	5,219.983300	0.0167
		48	5240.0000	5,239.983170	0.0168
		52	5260.0000	5,259.984630	0.0154
		60	5300.0000	5,299.984130	0.0159
		64	5320.0000	5,319.983790	0.0162
		100	5500.0000	5,499.983920	0.0161
		116	5580.0000	5,579.984710	0.0153
		140	5700.0000	5,699.984730	0.0153
60 °C	4.2V	36	5180.0000	5,179.985860	0.0141
		44	5220.0000	5,219.985250	0.0148
		48	5240.0000	5,239.985750	0.0143
		52	5260.0000	5,259.986990	0.0130
		60	5300.0000	5,299.986010	0.0140
		64	5320.0000	5,319.987000	0.0130
		100	5500.0000	5,499.986290	0.0137
		116	5580.0000	5,579.985100	0.0149
		140	5700.0000	5,699.985700	0.0143

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-20 °C	3.4V	36	5180.0000	5,180.037660	-0.0377
		44	5220.0000	5,220.037610	-0.0376
		48	5240.0000	5,240.038090	-0.0381
		52	5260.0000	5,260.038830	-0.0388
		60	5300.0000	5,300.038420	-0.0384
		64	5320.0000	5,320.037250	-0.0373
		100	5500.0000	5,500.037780	-0.0378
		116	5580.0000	5,580.038160	-0.0382
		140	5700.0000	5,700.038630	-0.0386
-20 °C	4.2V	36	5180.0000	5,180.036580	-0.0366
		44	5220.0000	5,220.035250	-0.0352
		48	5240.0000	5,240.036490	-0.0365
		52	5260.0000	5,260.036620	-0.0366
		60	5300.0000	5,300.036060	-0.0361
		64	5320.0000	5,320.036740	-0.0367
		100	5500.0000	5,500.036190	-0.0362
		116	5580.0000	5,580.035910	-0.0359
		140	5700.0000	5,700.036820	-0.0368

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Operation Mode	802.11n_HT20	Test Date	2012,11,30
Temperature	:25 °C	Test By	Nick
Humidity	:62 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
25 °C	3.7V	36	5180.0000	5,180.028100	-0.0281
		44	5220.0000	5,220.028380	-0.0284
		48	5240.0000	5,240.029910	-0.0299
		52	5260.0000	5,260.029990	-0.0300
		60	5300.0000	5,300.028330	-0.0283
		64	5320.0000	5,320.029570	-0.0296
		100	5500.0000	5,500.029210	-0.0292
		116	5580.0000	5,580.028900	-0.0289
		140	5700.0000	5,700.031040	-0.0310
60 °C	3.4V	36	5180.0000	5,179.978960	0.0210
		44	5220.0000	5,219.978840	0.0212
		48	5240.0000	5,239.979400	0.0206
		52	5260.0000	5,259.978720	0.0213
		60	5300.0000	5,299.979380	0.0206
		64	5320.0000	5,319.978990	0.0210
		100	5500.0000	5,499.978160	0.0218
		116	5580.0000	5,579.978430	0.0216
		140	5700.0000	5,699.978190	0.0218
60 °C	4.2V	36	5180.0000	5,179.981210	0.0188
		44	5220.0000	5,219.980140	0.0199
		48	5240.0000	5,239.981280	0.0187
		52	5260.0000	5,259.981940	0.0181
		60	5300.0000	5,299.981670	0.0183
		64	5320.0000	5,319.980160	0.0198
		100	5500.0000	5,499.981900	0.0181
		116	5580.0000	5,579.980510	0.0195
		140	5700.0000	5,699.981740	0.0183

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-20 °C	3.4V	36	5180.0000	5,180.038320	-0.0383
		44	5220.0000	5,220.039090	-0.0391
		48	5240.0000	5,240.038150	-0.0381
		52	5260.0000	5,260.039950	-0.0399
		60	5300.0000	5,300.039890	-0.0399
		64	5320.0000	5,320.038580	-0.0386
		100	5500.0000	5,500.039640	-0.0396
		116	5580.0000	5,580.039980	-0.0400
		140	5700.0000	5,700.039360	-0.0394
-20 °C	4.2V	36	5180.0000	5,180.035400	-0.0354
		44	5220.0000	5,220.036910	-0.0369
		48	5240.0000	5,240.036570	-0.0366
		52	5260.0000	5,260.036510	-0.0365
		60	5300.0000	5,300.035830	-0.0358
		64	5320.0000	5,320.036300	-0.0363
		100	5500.0000	5,500.035260	-0.0353
		116	5580.0000	5,580.035610	-0.0356
		140	5700.0000	5,700.035260	-0.0353

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Operation Mode	802.11 n_HT40	Test Date	2012,11,30
Temperature	:25 °C	Test By	Nick
Humidity	:62 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
25 °C	3.7V	38	5190.0000	5,190.017490	-0.0175
		46	5230.0000	5,230.017360	-0.0174
		54	5270.0000	5,270.017210	-0.0172
		62	5310.0000	5,310.018450	-0.0184
		102	5510.0000	5,510.018840	-0.0188
		118	5590.0000	5,590.017540	-0.0175
		134	5670.0000	5,670.018160	-0.0182
60 °C	3.4V	38	5190.0000	5,189.983870	0.0161
		46	5230.0000	5,229.982740	0.0173
		54	5270.0000	5,269.982130	0.0179
		62	5310.0000	5,309.983960	0.0160
		102	5510.0000	5,509.982160	0.0178
		118	5590.0000	5,589.983260	0.0167
		134	5670.0000	5,669.983640	0.0164
60 °C	4.2V	38	5190.0000	5,189.988520	0.0115
		46	5230.0000	5,229.988090	0.0119
		54	5270.0000	5,269.987870	0.0121
		62	5310.0000	5,309.988420	0.0116
		102	5510.0000	5,509.987760	0.0122
		118	5590.0000	5,589.987650	0.0123
		134	5670.0000	5,669.988660	0.0113

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-20 °C	3.4V	38	5190.0000	5,190.027220	-0.0272
		46	5230.0000	5,230.028580	-0.0286
		54	5270.0000	5,270.028240	-0.0282
		62	5310.0000	5,310.028490	-0.0285
		102	5510.0000	5,510.028100	-0.0281
		118	5590.0000	5,590.027280	-0.0273
		134	5670.0000	5,670.028250	-0.0283
-20 °C	4.2V	38	5190.0000	5,190.023390	-0.0234
		46	5230.0000	5,230.024840	-0.0248
		54	5270.0000	5,270.024390	-0.0244
		62	5310.0000	5,310.023120	-0.0231
		102	5510.0000	5,510.024300	-0.0243
		118	5590.0000	5,590.024020	-0.0240
		134	5670.0000	5,670.024650	-0.0247

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## 15. ANTENNA REQUIREMENT

### 15.1 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.

According to RSS-GEN 7.1.2, a transmitter can only be sold or operated with antennas with which it was certified. A transmitter may be certified with multiple antenna types. An antenna type comprises antennas having similar in-band and out-of-band radiation patterns. Testing shall be performed using the highest-gain antenna of each combination of transmitter and antenna type for which certification is being sought, with the transmitter output power set at the maximum level. Any antenna of the same type and having equal or lesser gain as an antenna that had been successfully tested for certification with the transmitter, will also be considered certified with the transmitter, and may be used and marketed with the transmitter. The manufacturer shall include with the application for certification a list of acceptable antenna types to be used with the transmitter.

### 15.2 Antenna Connected Construction

The directional gains of antenna used for transmitting is 0.26dBi (5150MHz– 5250MHz), 1.03dBi (5250MHz– 5350MHz), 3.40dBi (5470MHz– 5725MHz) 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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## 16. TPC and DFS MEASUREMENT

### 16.1 TPC: Standard Applicable

According to §15.407(h)(1), Transmit power control (TPC). U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.

According to RSS 210 A9.2(3), The maximum conducted output power shall not exceed 250 mW or  $11 + 10 \log_{10} B$ , dBm, whichever power is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band. The maximum e.i.r.p. shall not exceed 1.0 W or  $17 + 10 \log_{10} B$ , dBm, whichever power is less. B is the 99% emission bandwidth in MHz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

**16.1.1. Result:** N/A, The output power is less than 500mW.

### 16.2 DFS: Standard Applicable

According to §15.407(h)(2), Radar Detection Function of Dynamic Frequency Selection (DFS).

U-NII devices operating in the 5.25-5.35 GHz and 5.47-5.725 GHz bands shall employ a DFS radar detection. According to RSS 210 A9.3), Note: For the band 5600-5650 MHz, no operation is permitted.

Until further notice, devices subject to this annex shall not be capable of transmitting in the band 5600-5650 MHz. This restriction is for the protection of Environment Canada weather radars operating in this band.

Devices operating in the bands 5250-5350 MHz, 5470-5600 MHz and 5650-5725 MHz band shall comply with the following:

- (a) Devices shall employ a DFS radar detection mechanism to detect the presence of radar systems and To avoid co-channel operation with radar systems (see Note below). The minimum DFS radar signal detection threshold is -62 dBm for devices with a maximum e.i.r.p. less than 200 mW, and -64 dBm for devices with a maximum e.i.r.p. of 200 mW to 1 W. The detection threshold power is the received power, averaged over a 1-microsecond reference to a 0 dBi antenna. The DFS process shall provide a uniform spreading of the loading over all the available channels.

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Note: Test procedures for demonstrating compliance with the DFS radar detection requirements Set out in this section are being evaluated by Industry Canada. As an interim measure, the Department will, until further notice, accept utilization of the DFS test procedures published by the U.S. Federal Communications Commission (FCC)3 to demonstrate compliance with the requirements of this section.

- (b) Operational requirements: the requirement for channel availability check time applies in the master operational mode. The requirement for channel move time applies in both the master and slave operational modes.
- (i) In-service monitoring: an LE-LAN device should be able to monitor the operating channel to check that a co-channel radar has not moved or started operation within range of the LE-LAN device. . During in-service monitoring, the LE-LAN radar detection function continuously searches for radar signals between normal LE-LAN transmissions.
- (ii) Channel availability check time: the device shall check if there is a radar system already operating On the channel before it initiates a transmission on a channel and when it moves to a channel. The Device may start using the channel if no radar signal with a power level greater than the interference threshold value specified in A9.3 (a) above is detected within 60 seconds.
- (iii) Channel move time: after a radar's signal is detected, the device shall cease all transmissions on the operating channel within 10 seconds. Transmission during this period shall consist of normal traffic for a maximum of 200 ms after detection of the radar signal. Intermittent management and control signals may also be sent during the remaining time to facilitate vacating the operating channel.
- (iv) Channel closing time: the maximum channel closing time is 260 ms. (v) Non-occupancy period: a channel that has been flagged as containing a radar signal, either by a channel availability check or in-service monitoring, is subject to a 30-minute non-occupancy period where the channel cannot be used by the LE-LAN device. The non-occupancy period starts from the time that the radar signal is detected.

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### 16.2.1.Limit

**Table 1:Applicability of DFS requirements prior to use of a channel**

Requirement	Operational Mode		
	Master	Client(without radar detection)	Client(with radar detection)
Non-occupancy Period	Yes	Yes	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
Uniform Spreading	Yes	Not required	Not required

**Table 2:Applicability of DFS requirements during normal operation**

Requirement	Operational Mode		
	Master	Client(without radar detection)	Client(with radar detection)
Channel Closing Transmission time	Yes	Yes	Yes
Channel Move time	Yes	Yes	Yes

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**Table 3: Interference Threshold values, Master or Client incorporating In-Service Monitoring**

Maximum Transmit Power	Value (see note)
≥ 200 milliwatt	-64 dBm
< 200 milliwatt	-62 dBm

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna  
Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

**Table 4: DFS Response requirement values**

Parameter	Value
<i>Non-occupancy period</i>	Minimum 30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds See Note 1.
<i>Channel Closing Transmission Time</i>	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
<i>U-NII Detection Bandwidth</i>	Minimum 80% of the 99% power bandwidth See Note 3.

Note 1: The instant that the *Channel Move Time* and the *Channel Closing Transmission Time* begins is as follows:

- For the Short pulse radar Test Signals this instant is the end of the *Burst*.
- For the Frequency Hopping radar Test Signal, this instant is the end of the last radar *Burst* generated.
- For the Long Pulse radar Test Signal this instant is the end of the 12 second period defining the radar transmission.

Note 2: The *Channel Closing Transmission Time* is comprised of 200 milliseconds starting at the beginning of the *Channel Move Time* plus any additional intermittent control signals required to facilitate *Channel* changes (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the *U-NII Detection Bandwidth* detection test, radar type 1 is used and for each frequency step the minimum percentage of detection is 90%. Measurements are performed with no data traffic.

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**Table 5: Radar Test Waveforms**

**Short Pulse Radar**

Radar Type	Pulse Width (µsec)	PRI (µsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Trials
1	1	1428	18	60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120

**Long Pulse Radar**

Radar Type	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

**Frequency Hopping Radar**

Radar Type	Pulse Width (µsec)	PRI (µsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Trials
6	1	333	9	.333	300	70%	30

*The applicant of this given application confirms that information regarding the parameters of the detected Radar Waveforms is not available to the end user.*

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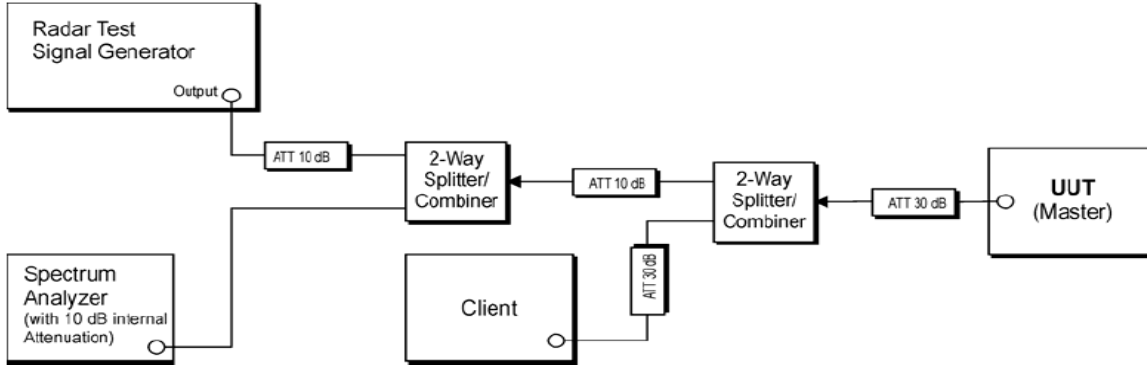
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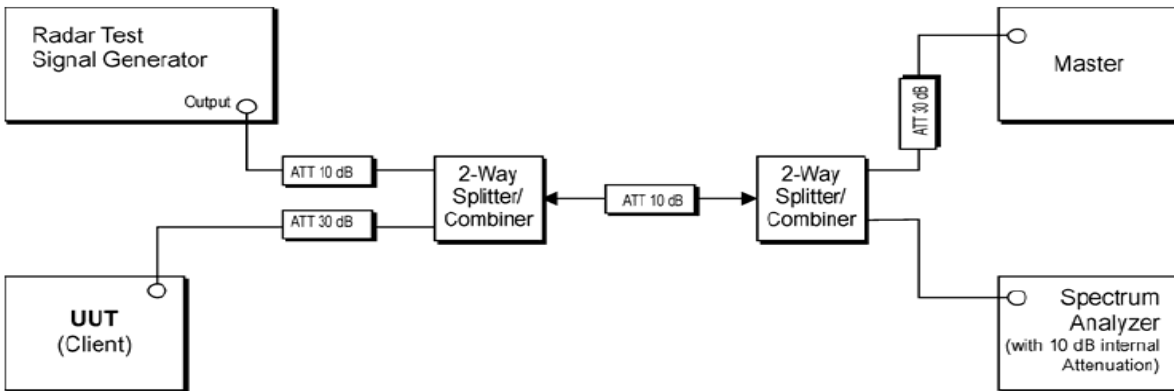
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## 16.2.2. Test Setup

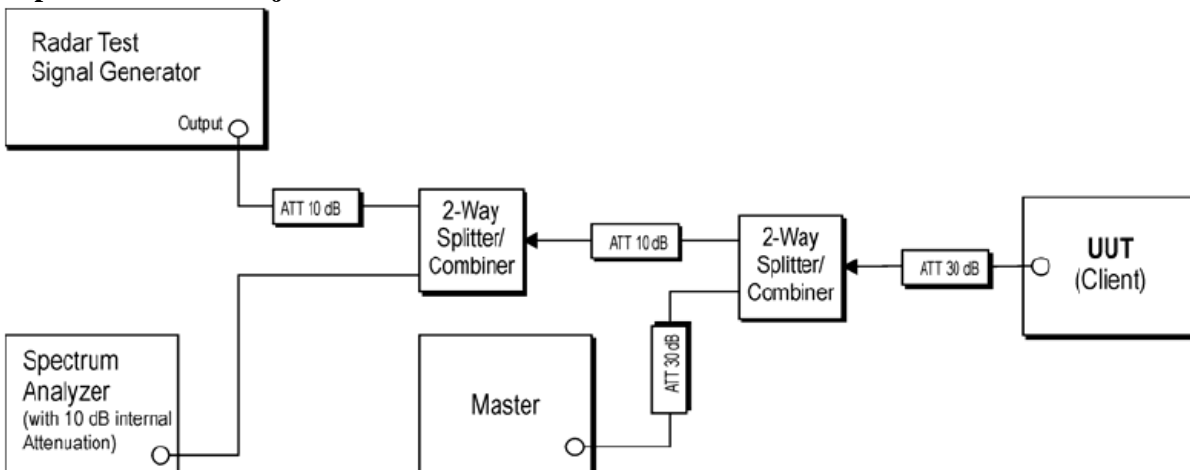
### Setup for Master with injection at the Master



### Setup for Client with injection at the Master



### Setup for Client with injection at the Client



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**16.2.3. Test Equipment Used:**

DFS Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
ESG VECTOR SIGNAL GENERATOR	Aglient	E4438C	MY45093613	07/15/2011	07/13/2013
Spectrum Analyzer	Agilent	E4446A	MY51100003	04/15/2011	04/14/2013
DC Block	Mini-Circuits	BLK-18-S+	1	02/28/2013	02/27/2014
Attenuator	Mini-Circuit	BW-S10W2+	002	02/28/2013	02/27/2014
Attenuator	Agilent	8495B	3308A22470	02/28/2013	02/27/2014
Attenuator	HP	8494B	2812A170605	02/28/2013	02/27/2014
Power Splitter	Mini-Circuits	ZN2PD-9G-S+	N/A	02/28/2013	02/27/2014
Power Splitter	Mini-Circuits	ZN2PD-9G-S+	N/A	02/28/2013	02/27/2014
AP Router	N/A	RA450R4GD	N/A	N/A	N/A
DFS Test Software	N/A	DFS_Test_V51 Version 4.4.25	N/A	N/A	N/A
Notebook	HP	L420	N/A	N/A	N/A

**16.2.4. Description of EUT :**

EUT operates over the 5250-5350MHz and 5470-5725MHz ranges and EUT is a slave device (client equipment) w/o radar detection and DFS capability. EUT has a gain of 3.40dBi in the 5GHz Band.

The EUT utilizes the 802.11a architecture, with a nominal channel bandwidth of 20MHz WLAN traffic is generated by streaming the mpeg file from the master to slave in full monitor video mode using the media player.

The rated output power of the master unit is >23dBm(EIRP).therefore the required interference threshold level is -64dBm.after correction for antenna gain and procedural adjustments, the required conducted threshold at the antenna port is -64+6=-58, and the master device as employed for the applicable DFS test is CISCO router whose FCC ID= LDK102061

For the required channel loading, the full motion, 30 frames per second MPEG video file from <http://ntiacsd.ntia.doc.gov/dfs/> was streamed from a network on a test laptop, via the DFS Master device, to the UE (mobile phone).

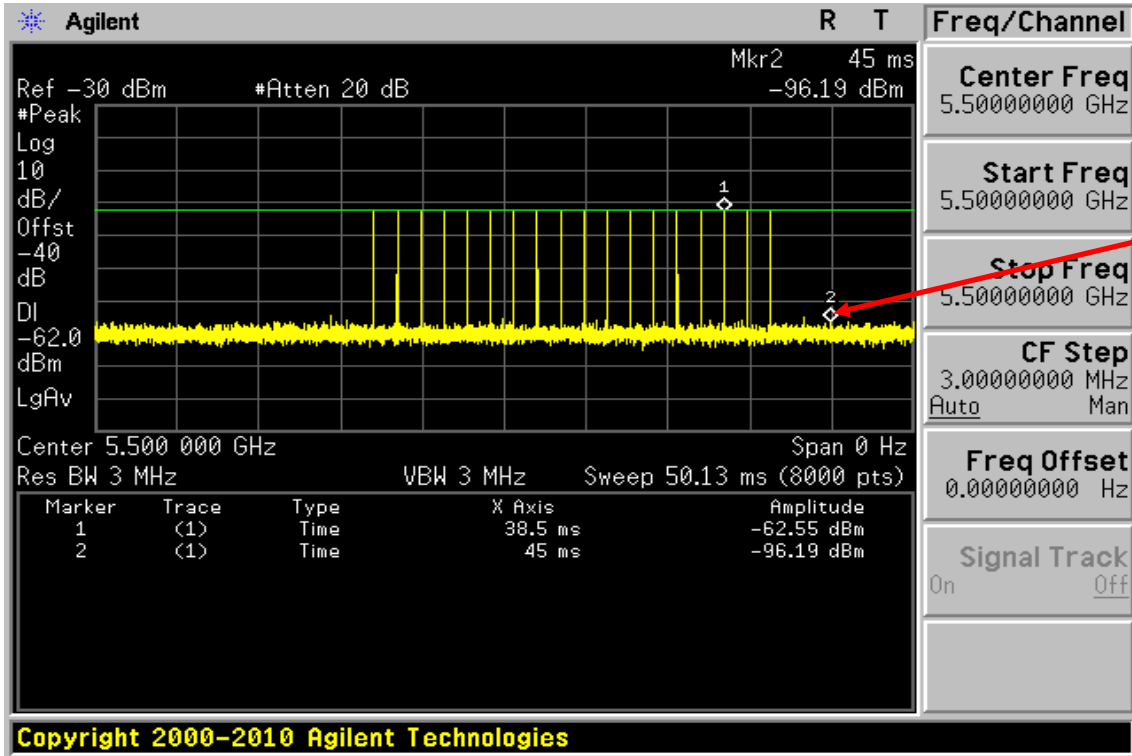
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### 16.2.5. Test results

#### Calibration plots for each of the required radar waveforms

##### Radar type 1



Noise Floor

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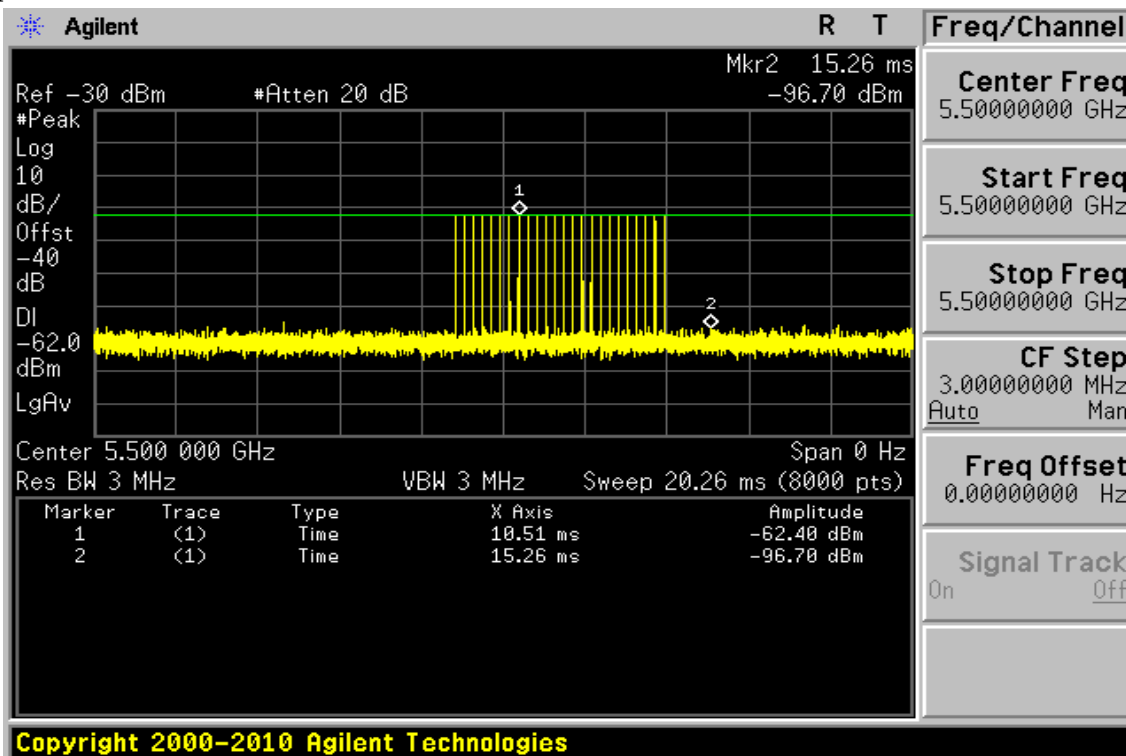
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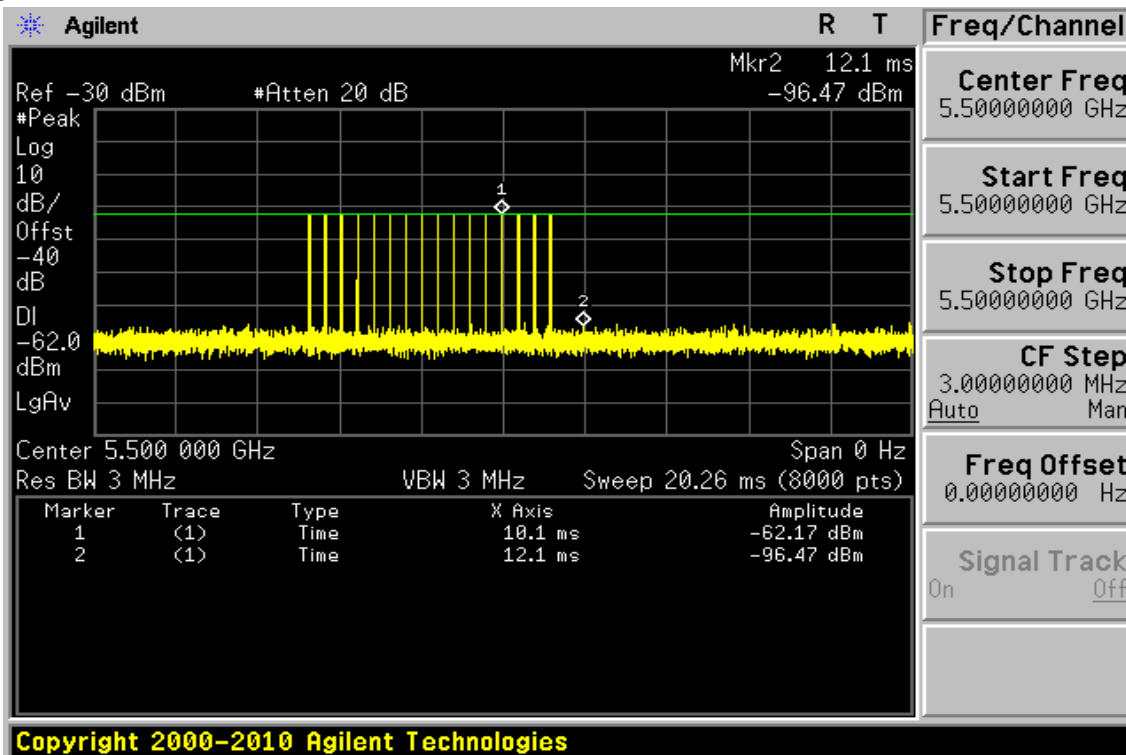
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### Radar type 2



### Radar type 3

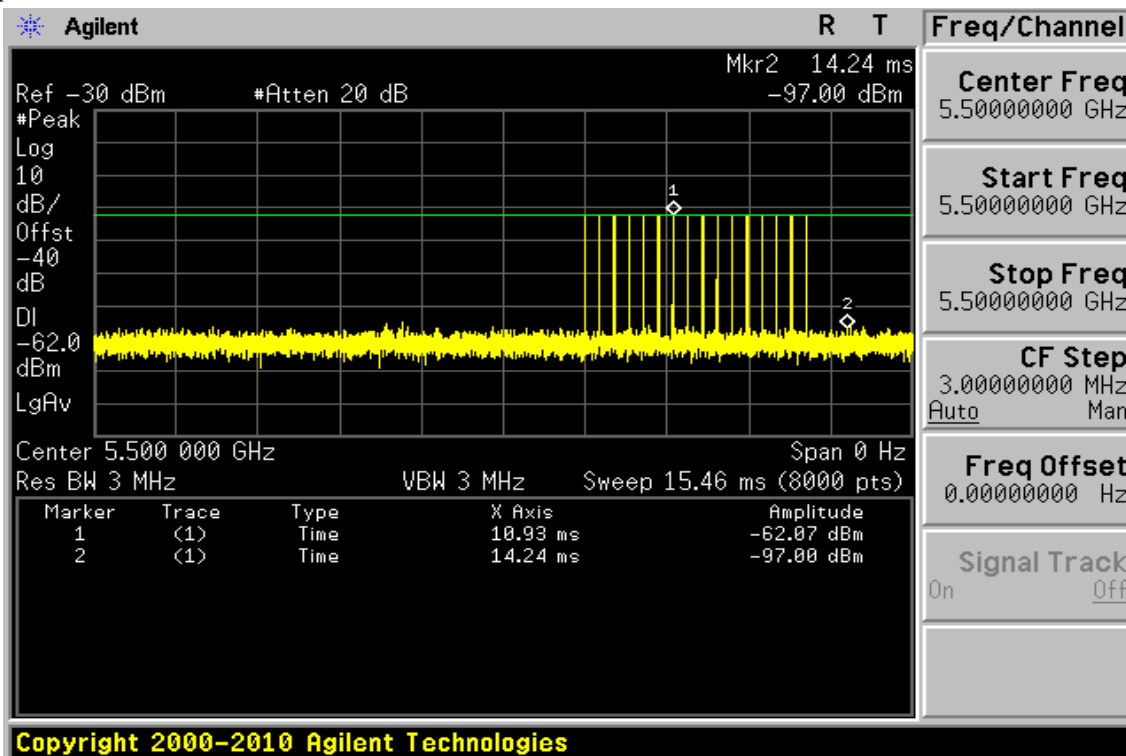


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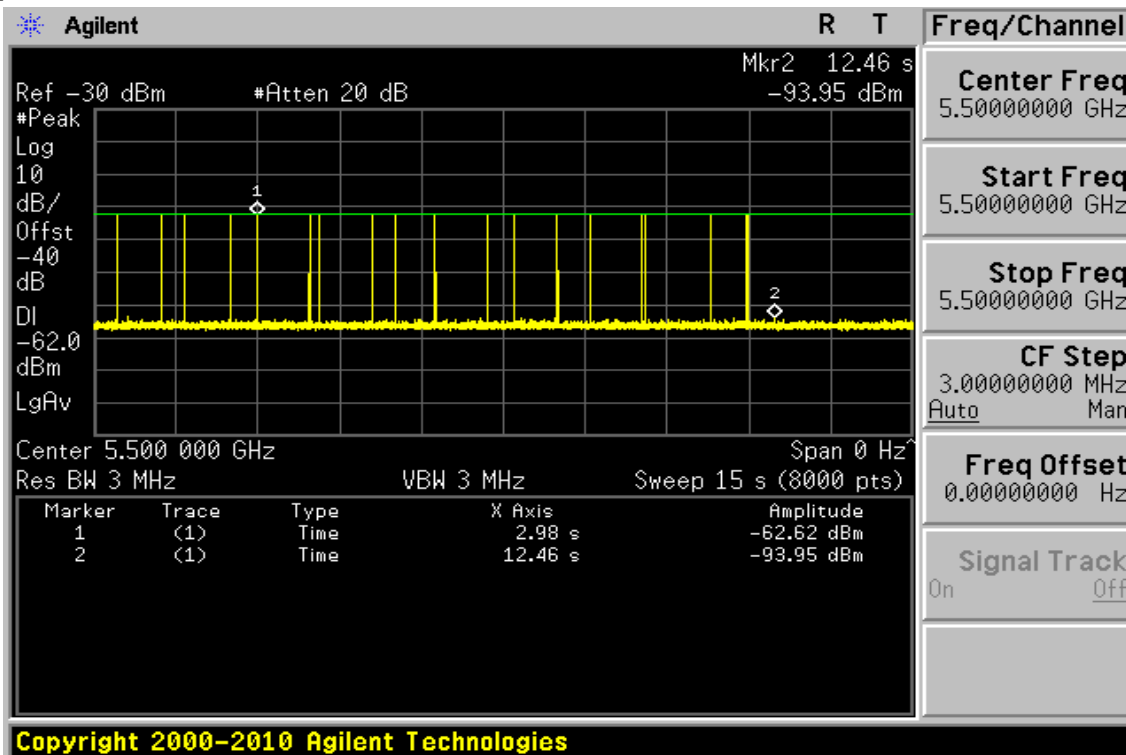
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### Radar type 4



### Radar type 5



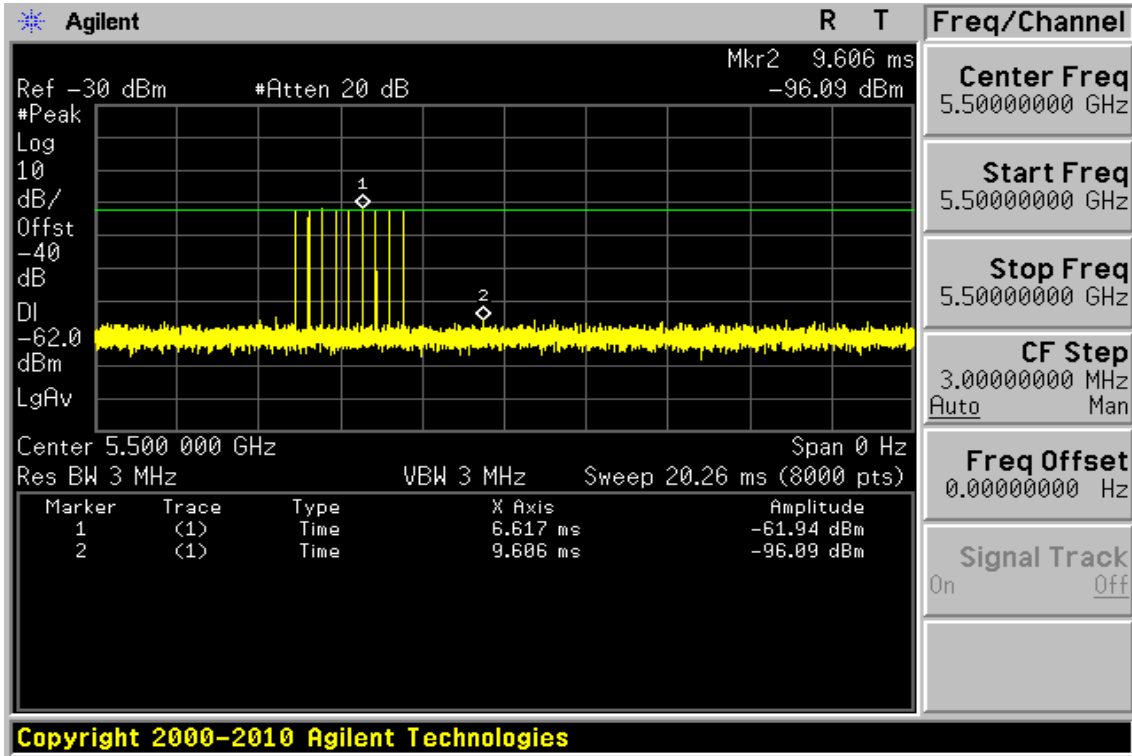
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Radar type 6

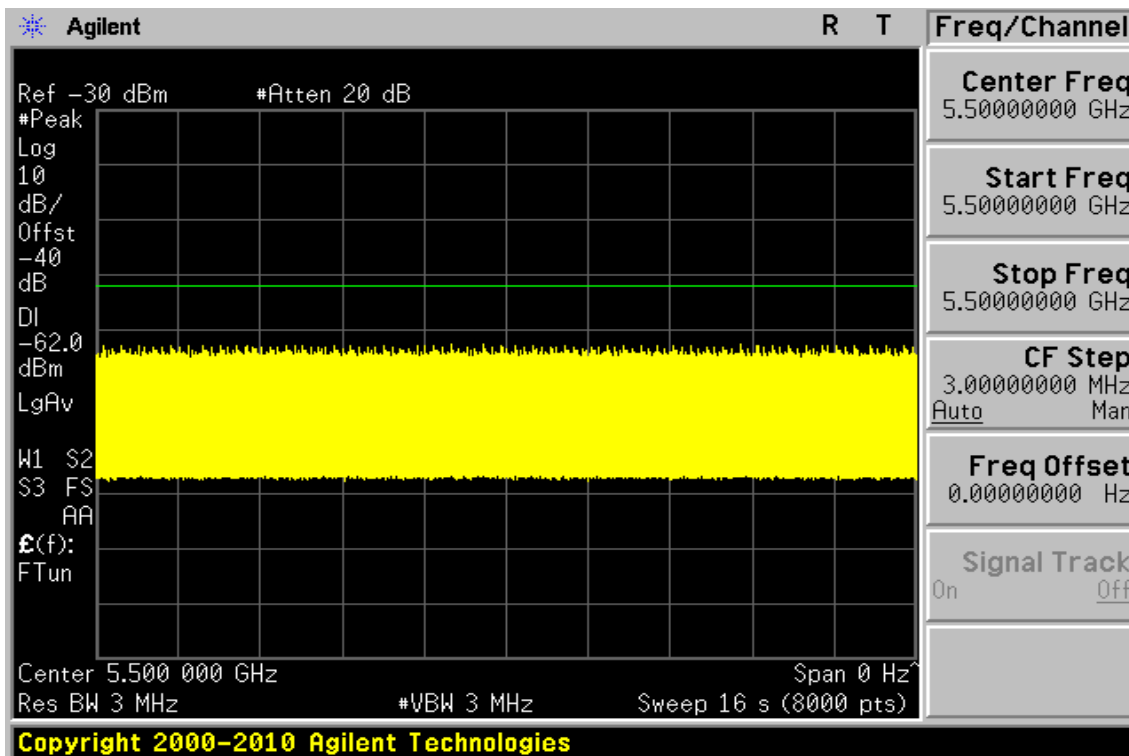


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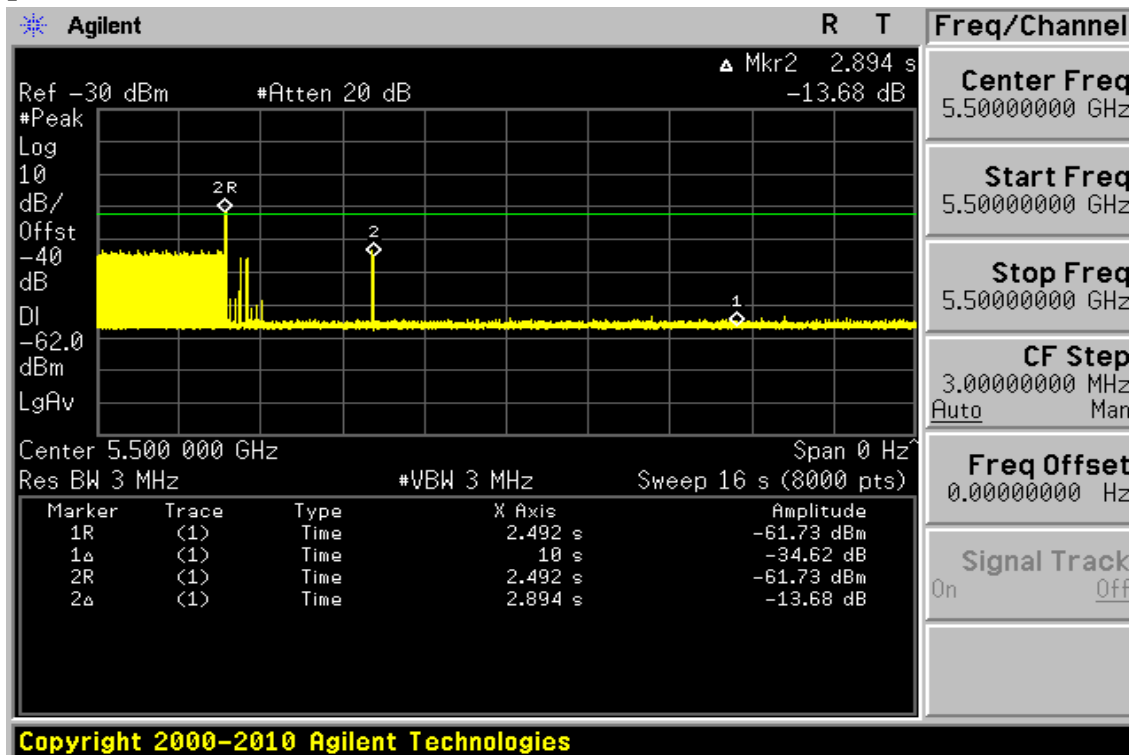
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WLAN traffic



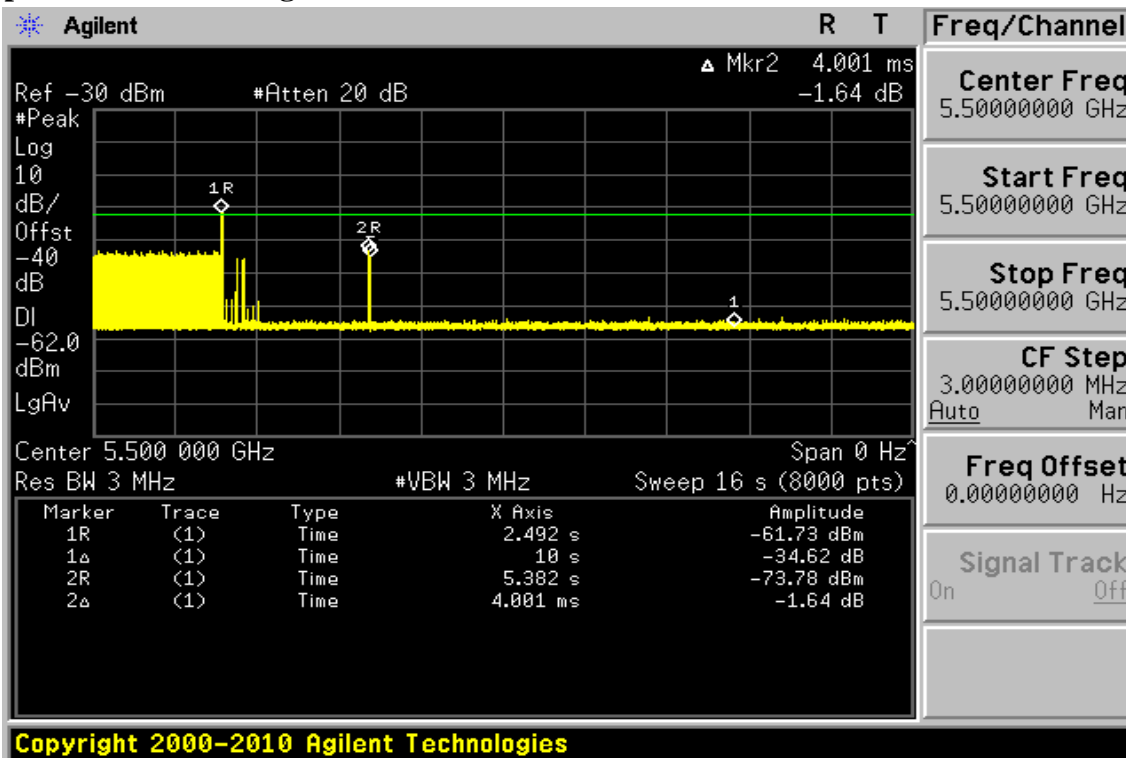
Radar Type 1 Channel Move Time



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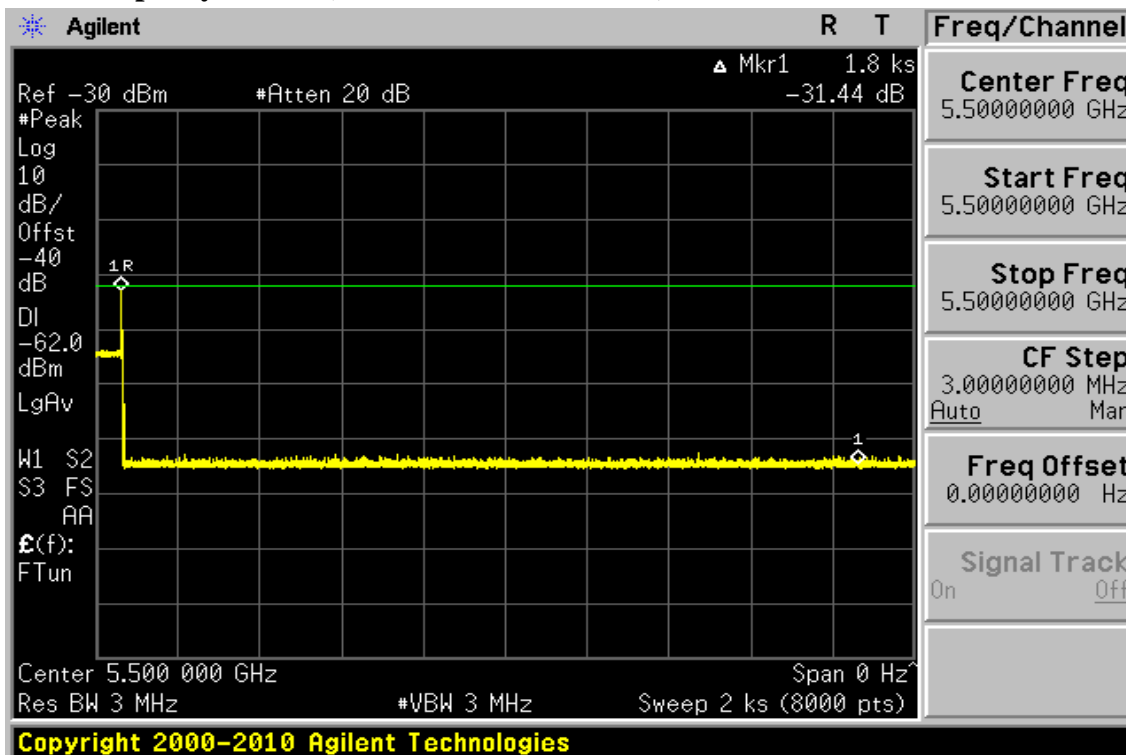
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### Radar Type 1 Channel Closing Transmission Time



$4.001\text{ms} * 3 = 12.003\text{ ms}$

### Non-occupancy Period (without radar detection)



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FCC ID: PY7PM-0300  
IC: 4170B-PM0300

Report No.: EH/2012/B0008  
Issue Date: May. 03, 2013  
Page 308 of 448

# APPENDIX 1

## MEASUREMENT PLOT OF RADIATED SPURIOUS EMISSION

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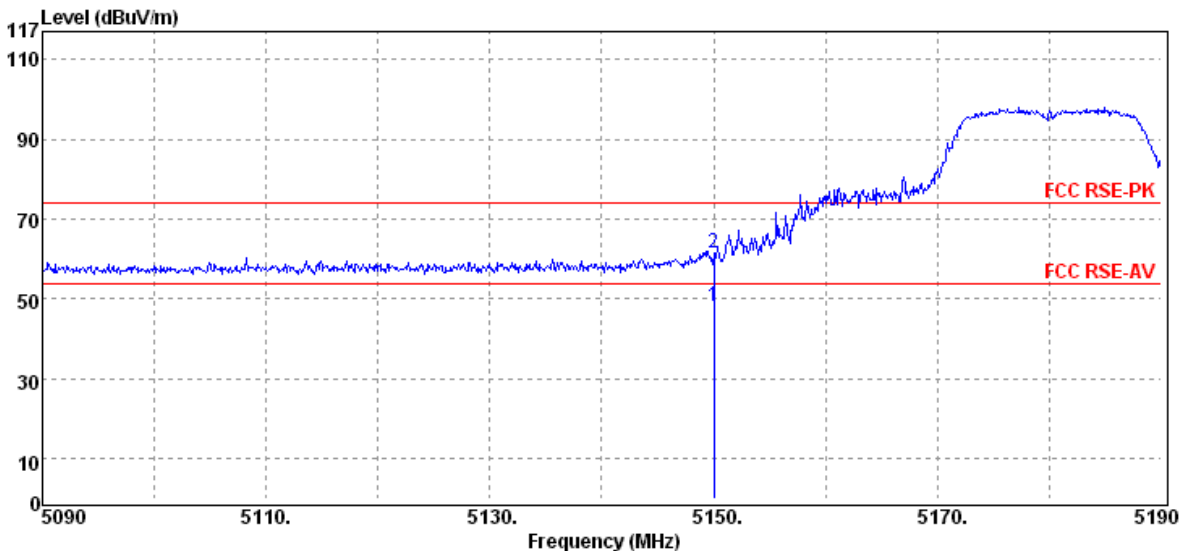
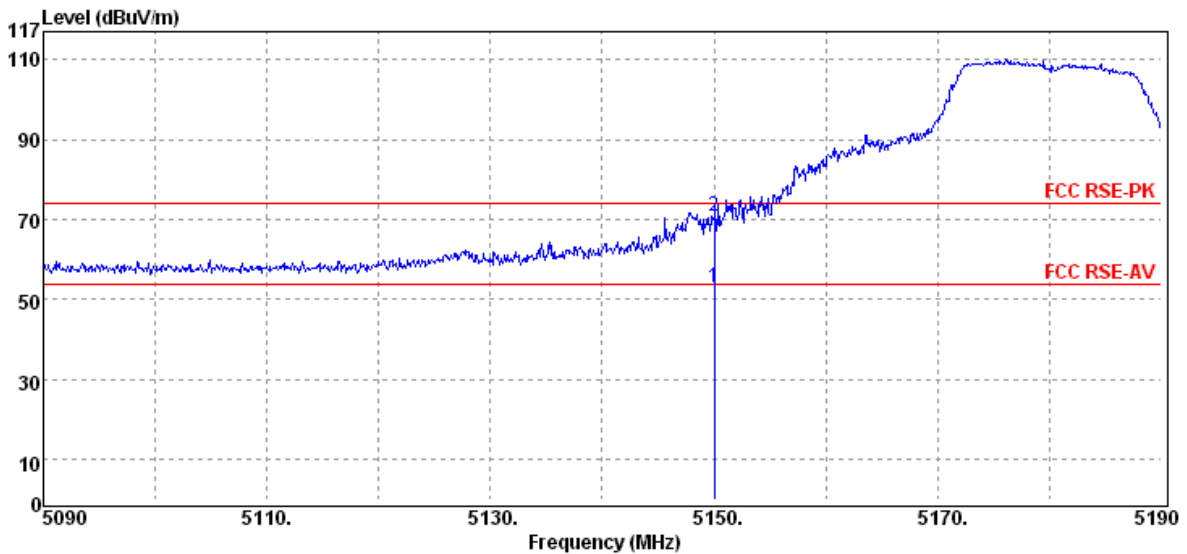
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**Band Edges Radiated Emission:**

**Note: The emission that surpasses the limit of peak represents the fundamental emission of the operation that does not accounts to be conformed to the limit of the interest.**

**802.11a**

Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5180 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX BANDEDGE	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.

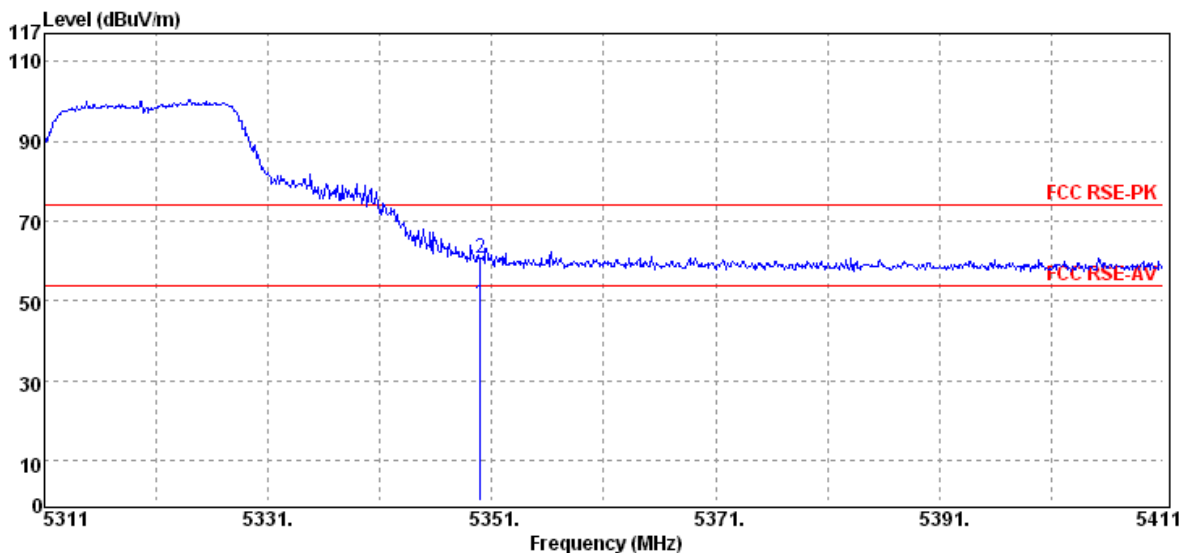
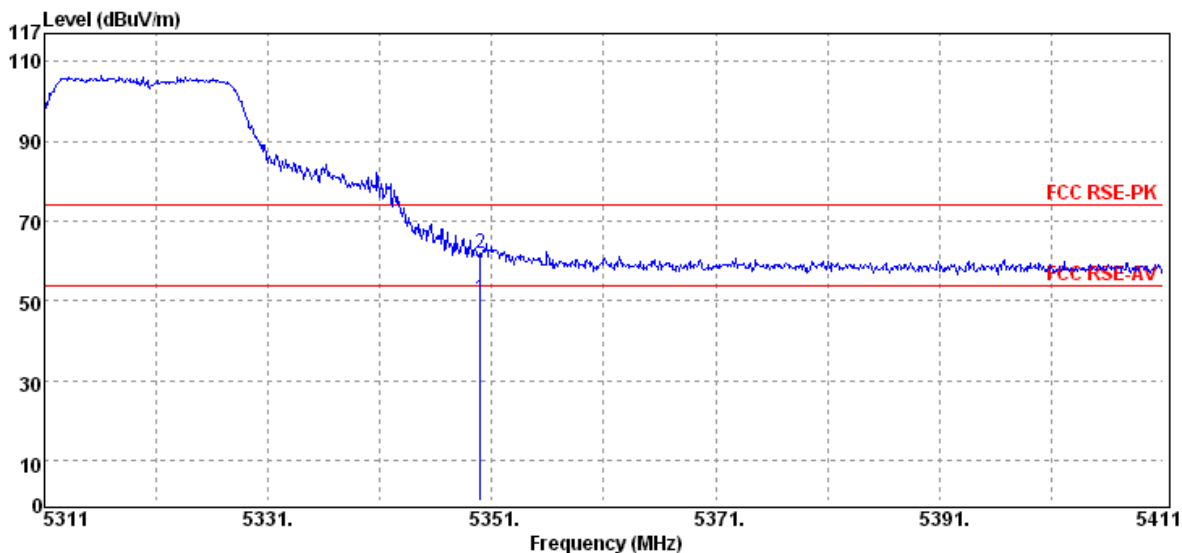


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Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5320 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX BANDEDGE	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.

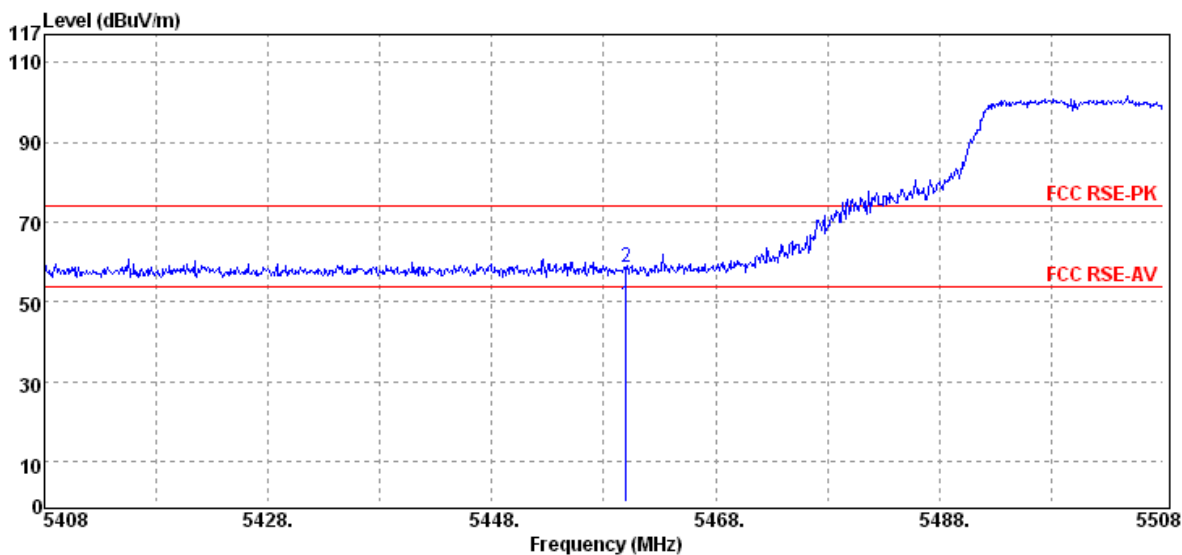
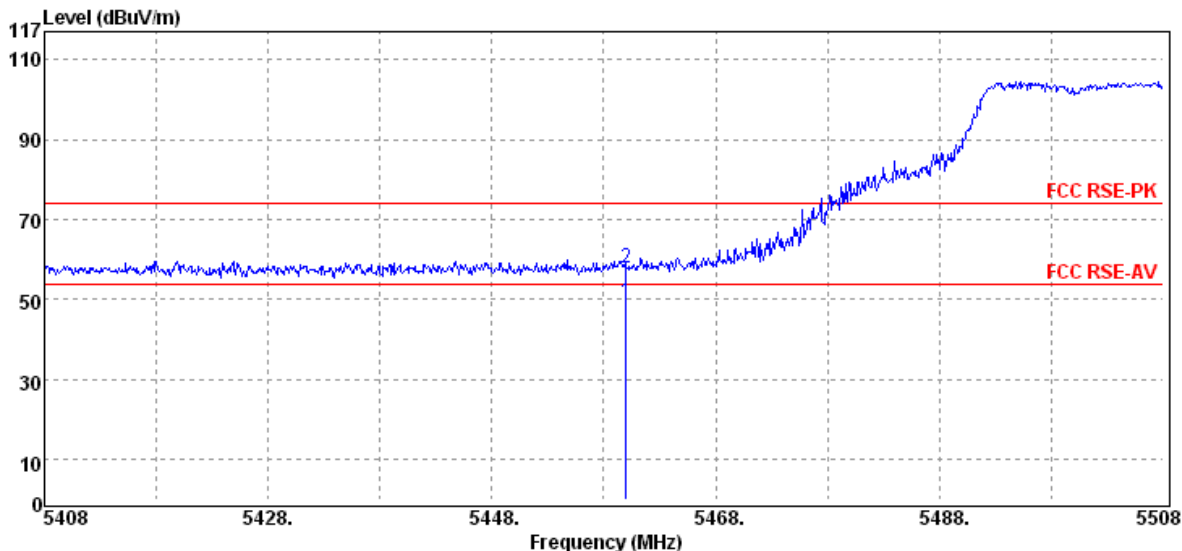


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Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5500 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX BANDEDGE	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.

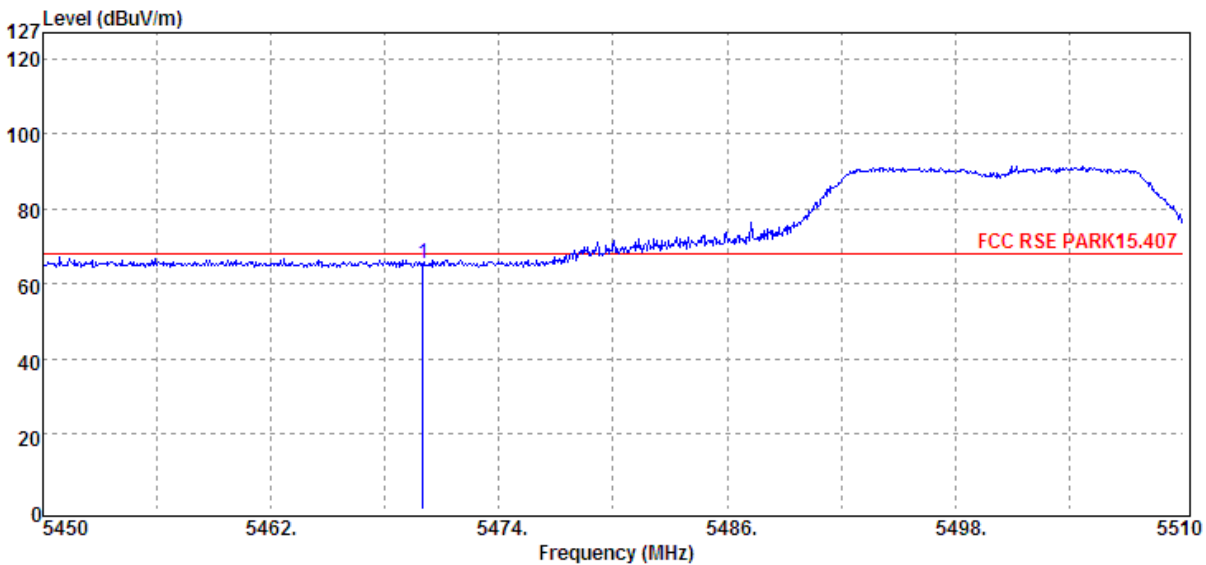
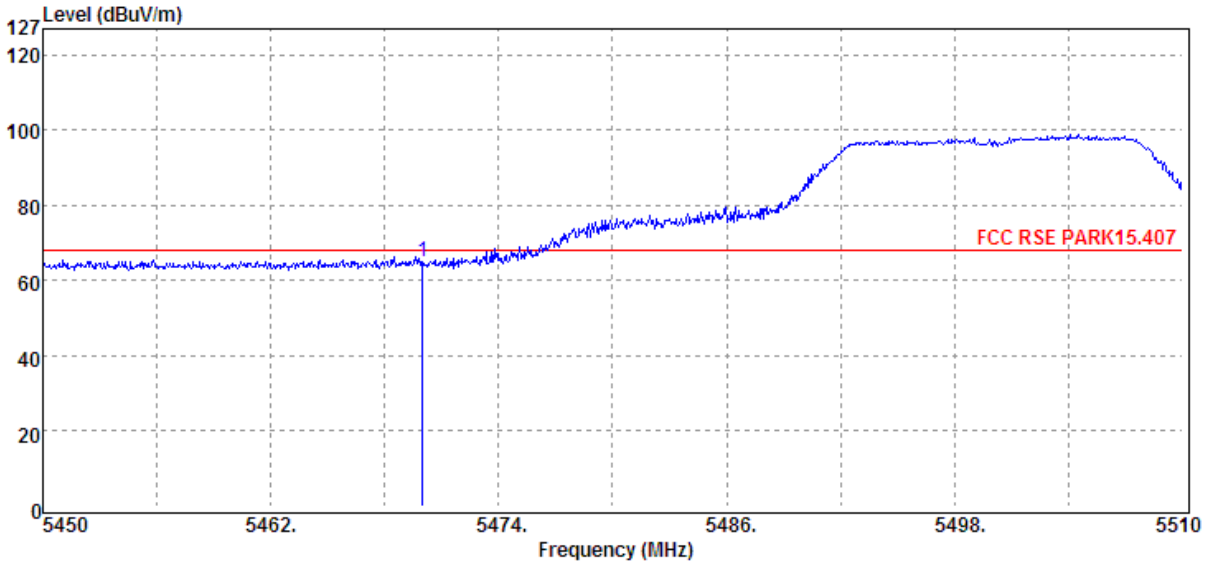


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Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23.4deg_C / 57 RH
Operation Mode	:Bandedge LOW	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	: Ver. / Hor



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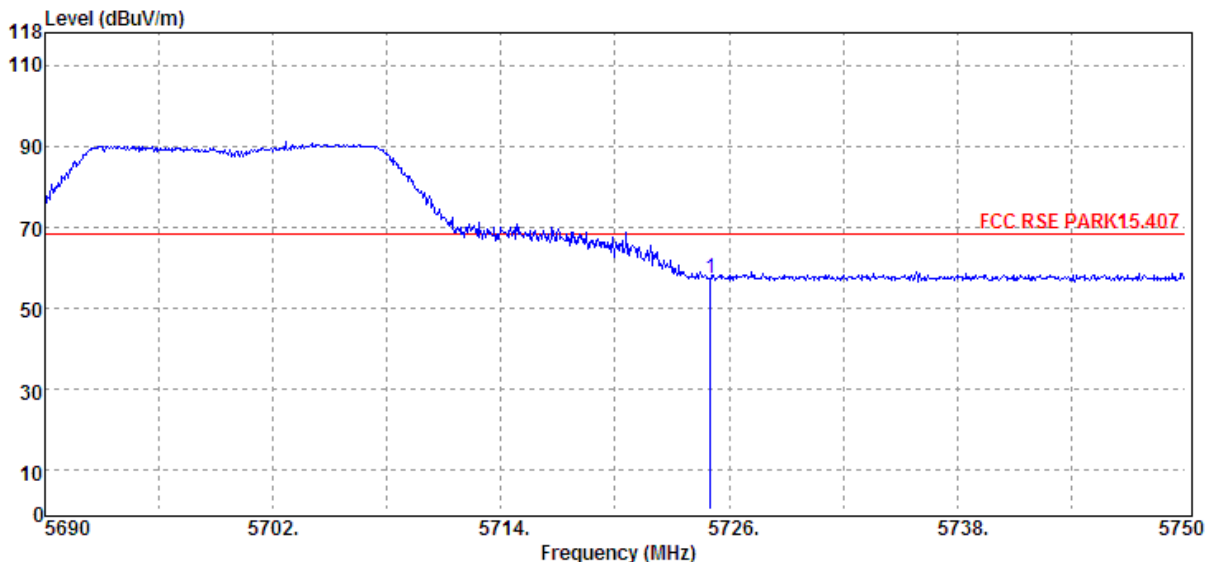
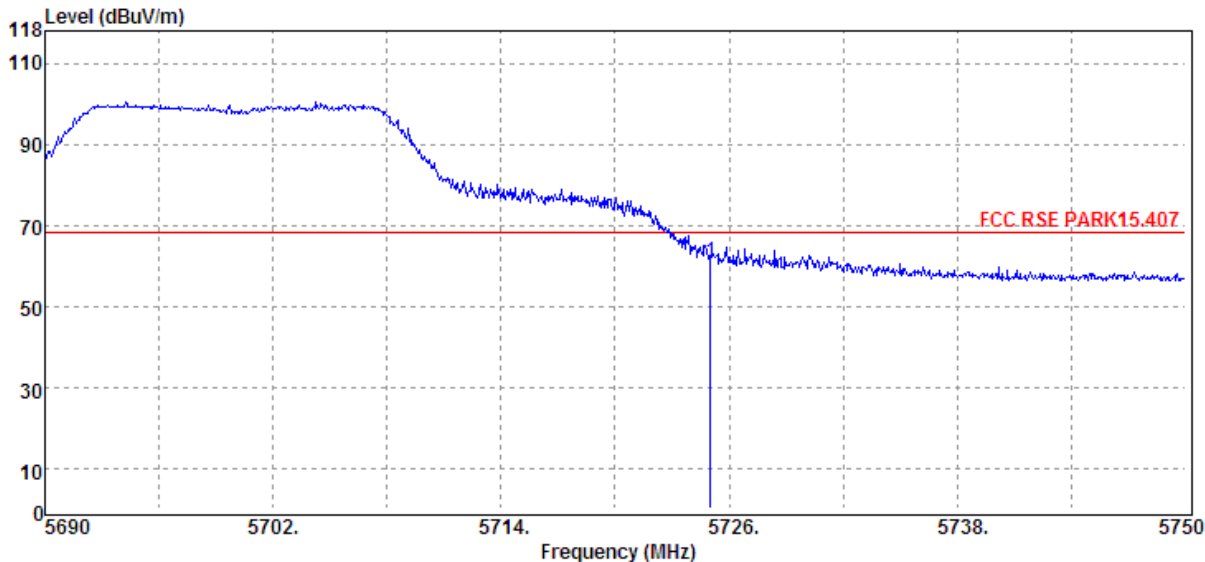
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Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23.4deg_C / 57 RH
Operation Mode	:Bandedge HIGH	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	: Ver. / Hor.



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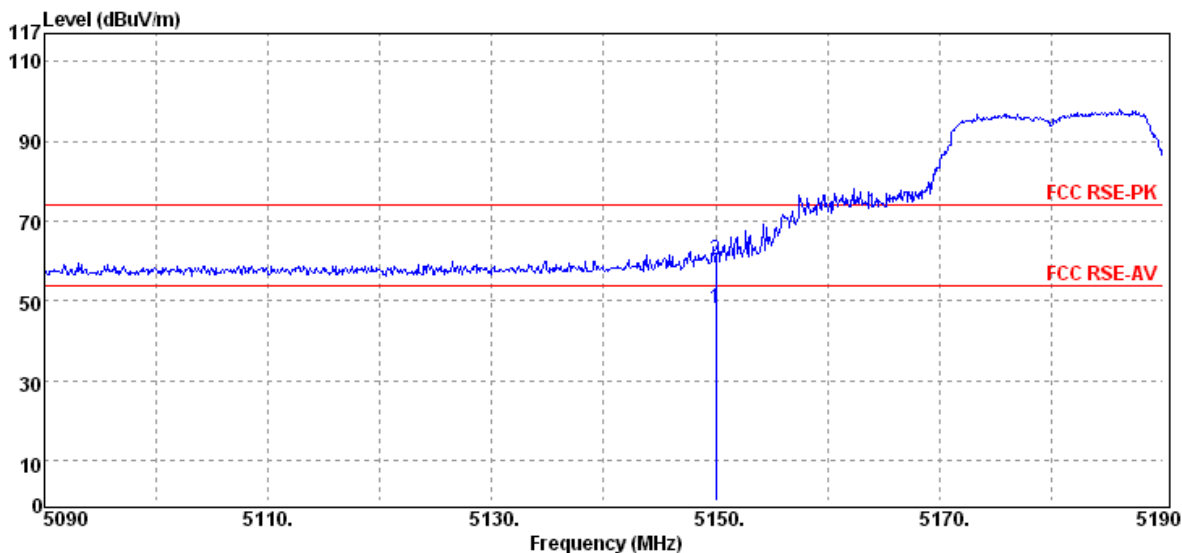
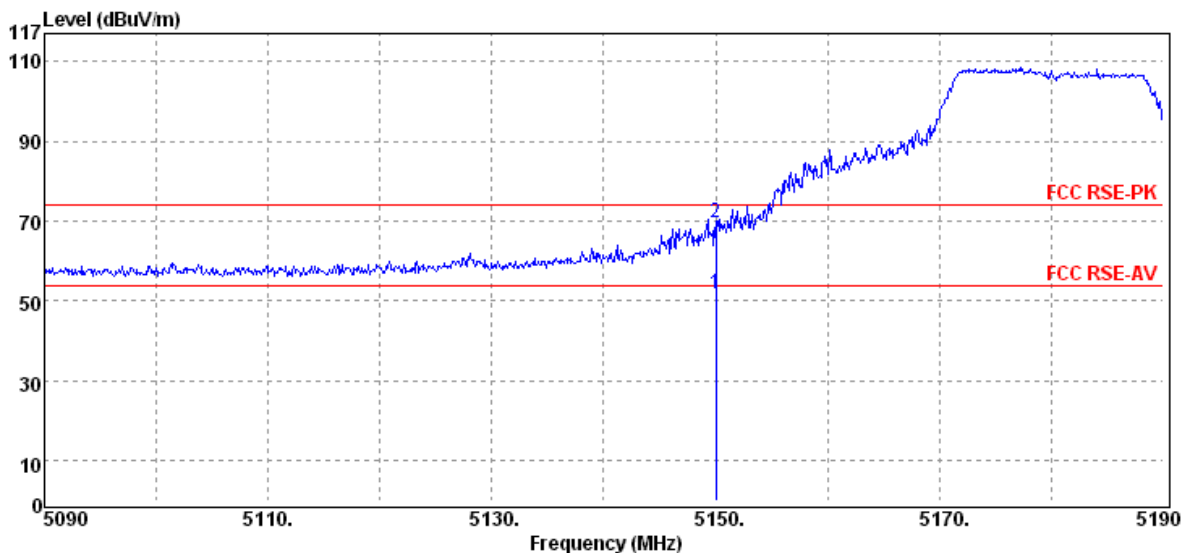
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**802.11n\_20M**

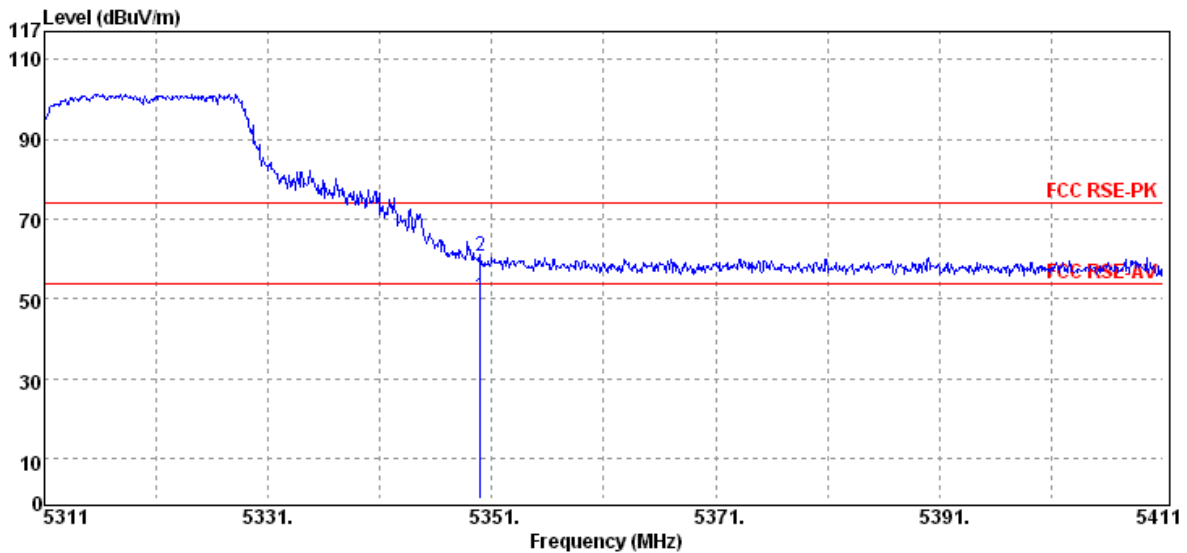
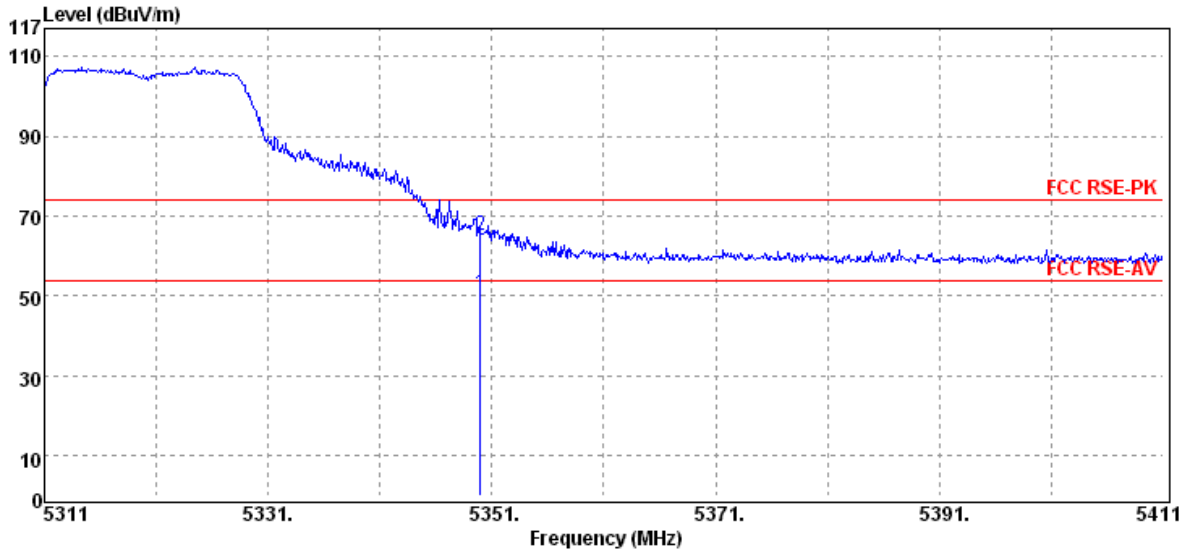
Operation Band	:802.11n 20M	Test Date	:2012-11-28
Fundamental Frequency	:5180 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX BANDEDGE	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.



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Operation Band	:802.11n 20M	Test Date	:2012-11-28
Fundamental Frequency	:5320 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX BANDEDGE	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.



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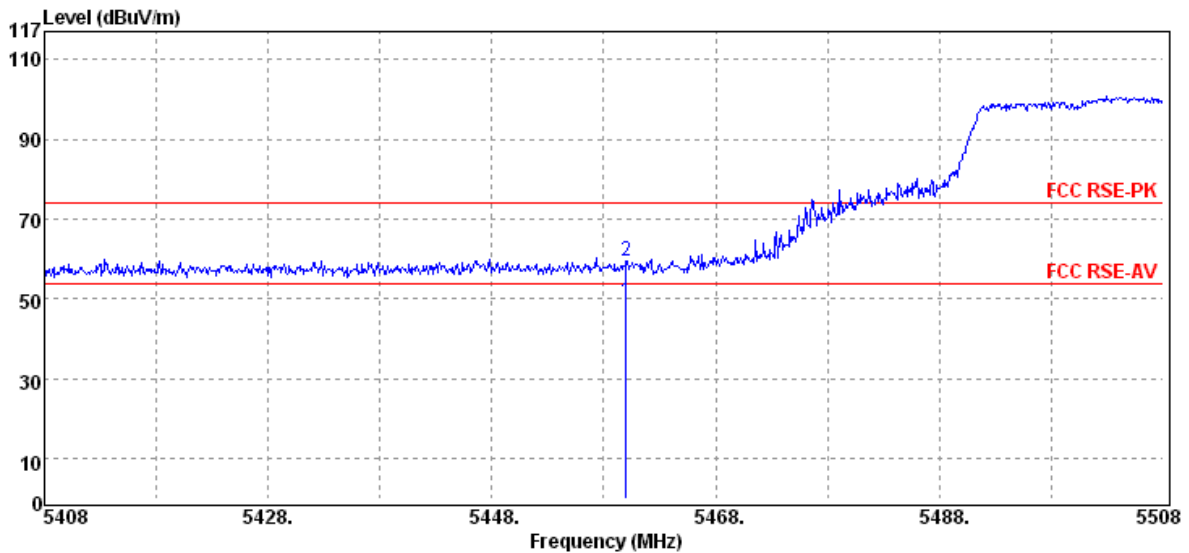
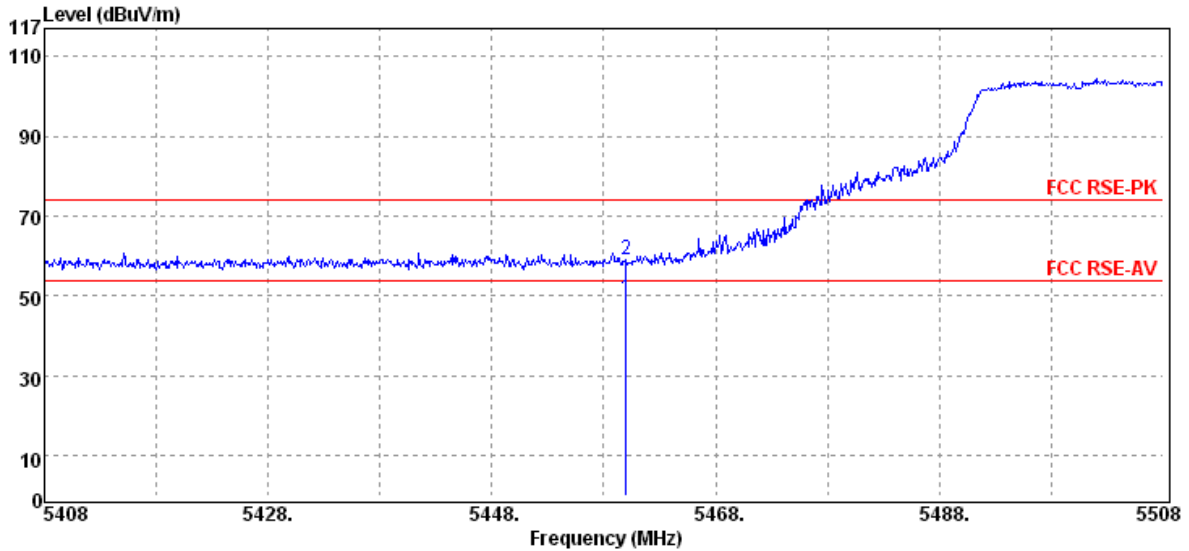
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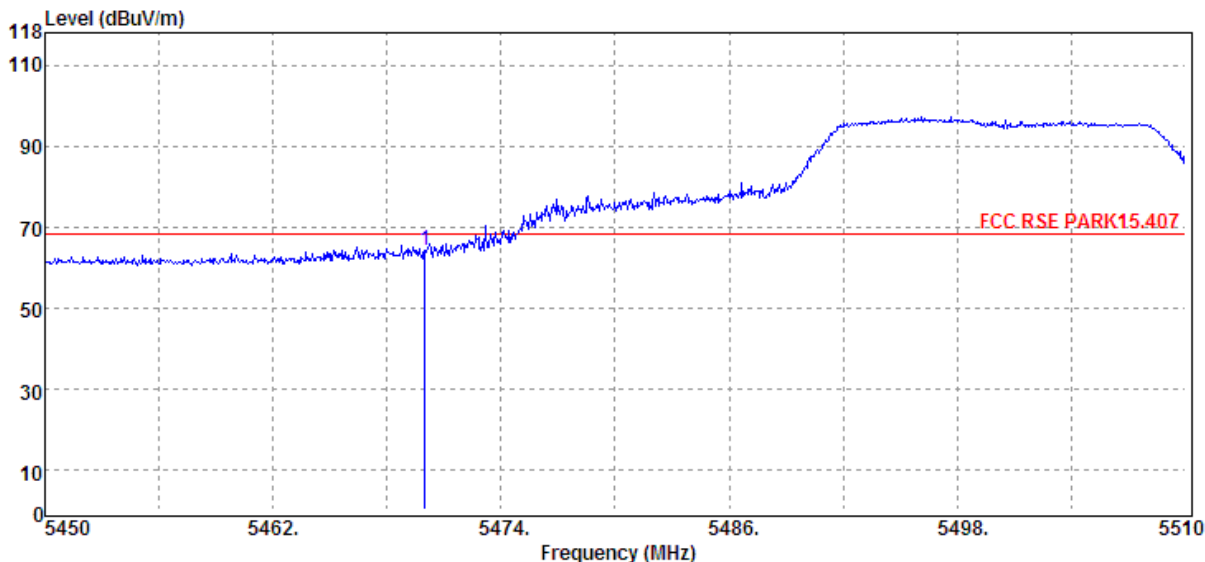
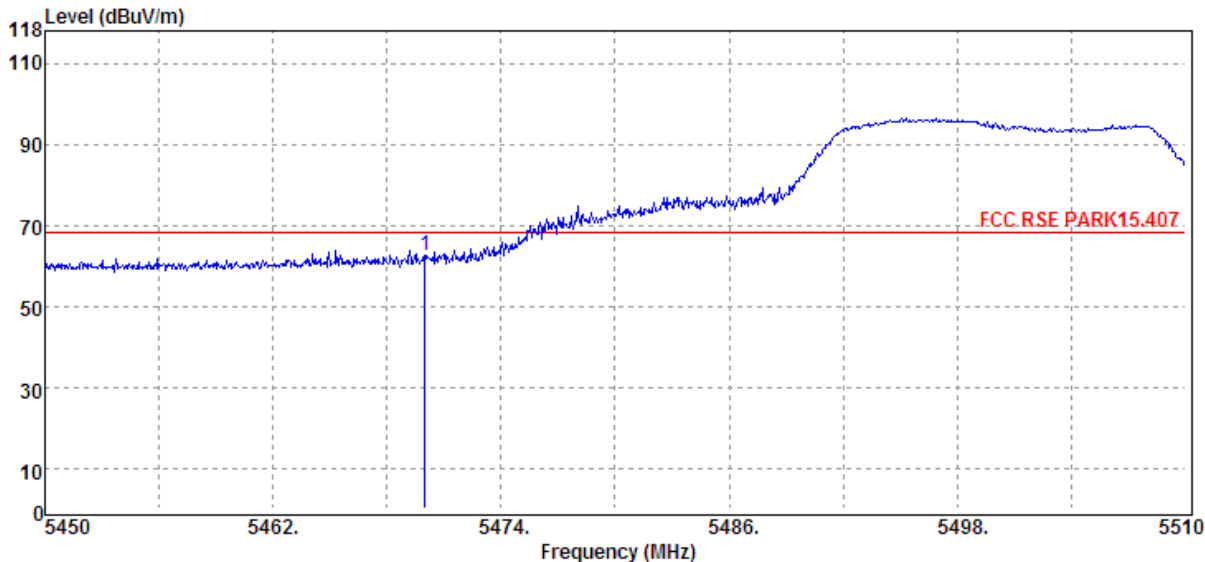
Operation Band	:802.11n 20M	Test Date	:2012-11-28
Fundamental Frequency	:5500 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX BANDEDGE	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.



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Operation Band	:802.11 n20	Test Date	:2013-05-03
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23.4deg_C / 57 RH
Operation Mode	:Bandedge LOW	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	: Ver. / Hor.



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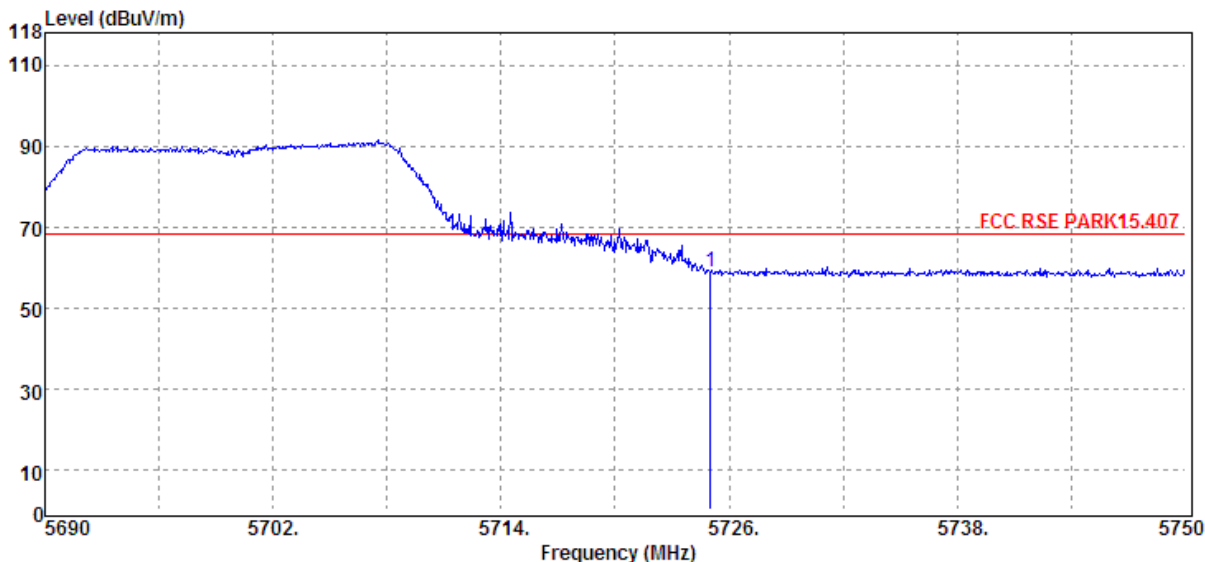
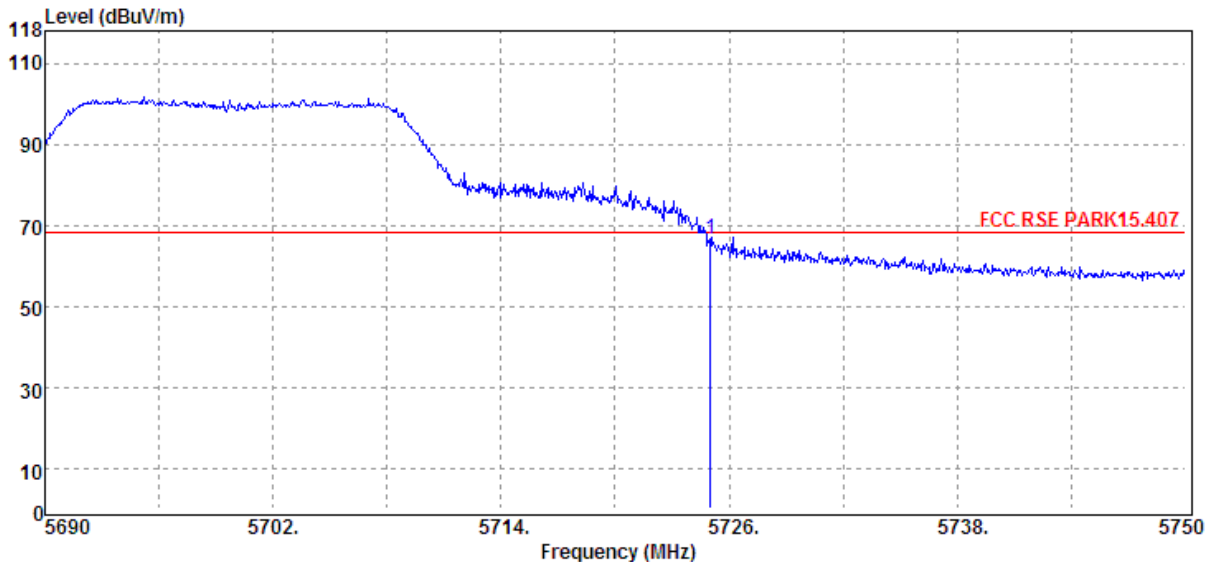
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Operation Band	:802.11 n20	Test Date	:2013-05-03
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23.4deg_C / 57 RH
Operation Mode	:Bandedge HIGH	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	: Ver. / Hor.

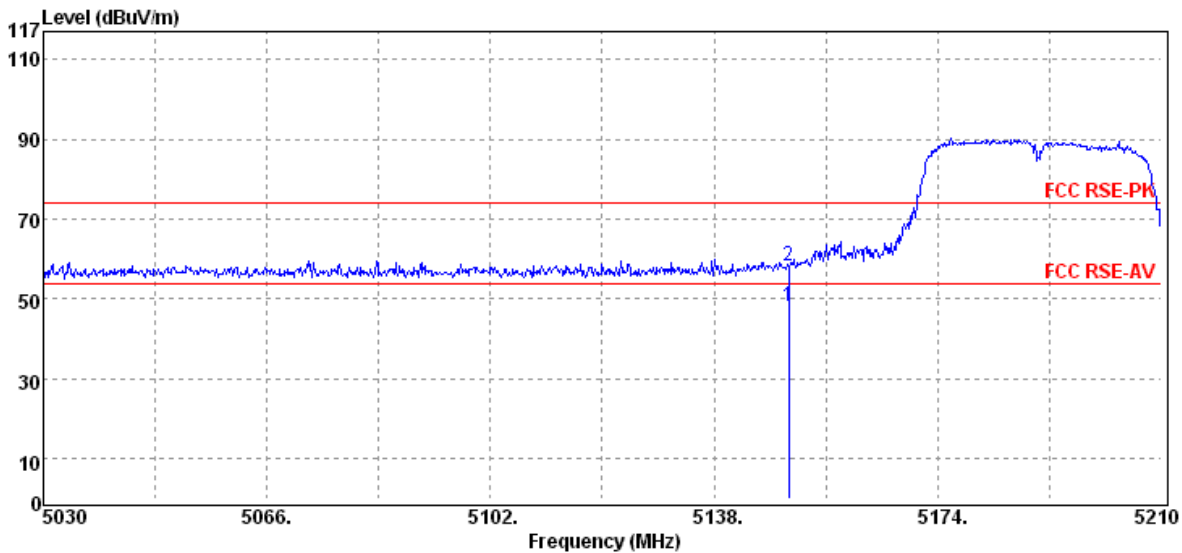
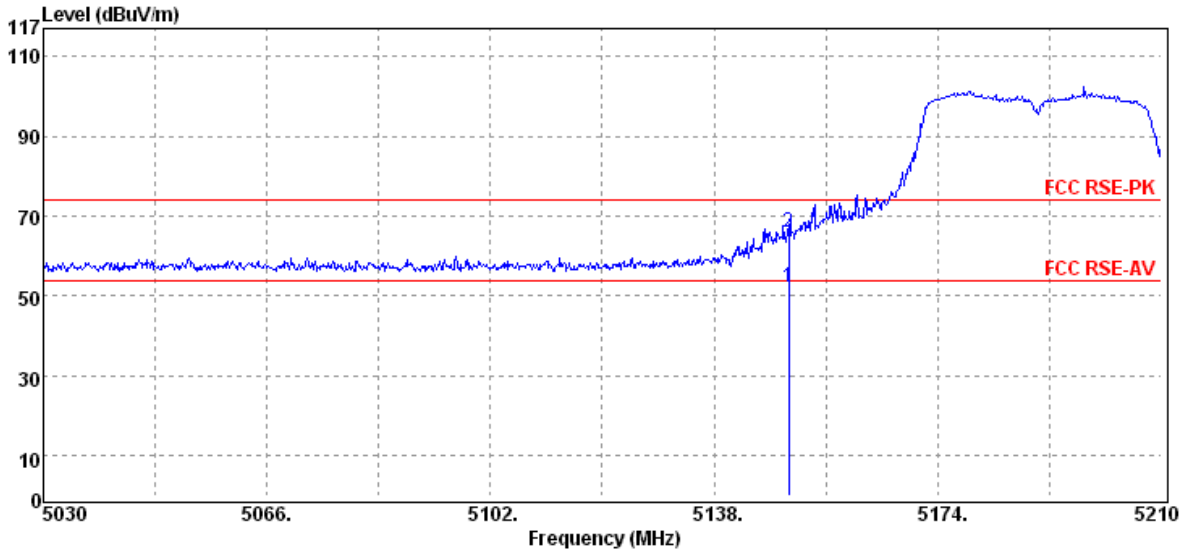


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**802.11n\_40M**

Operation Band	:802.11n 40M	Test Date	:2012-11-28
Fundamental Frequency	:5190 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX BANDEDGE	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.

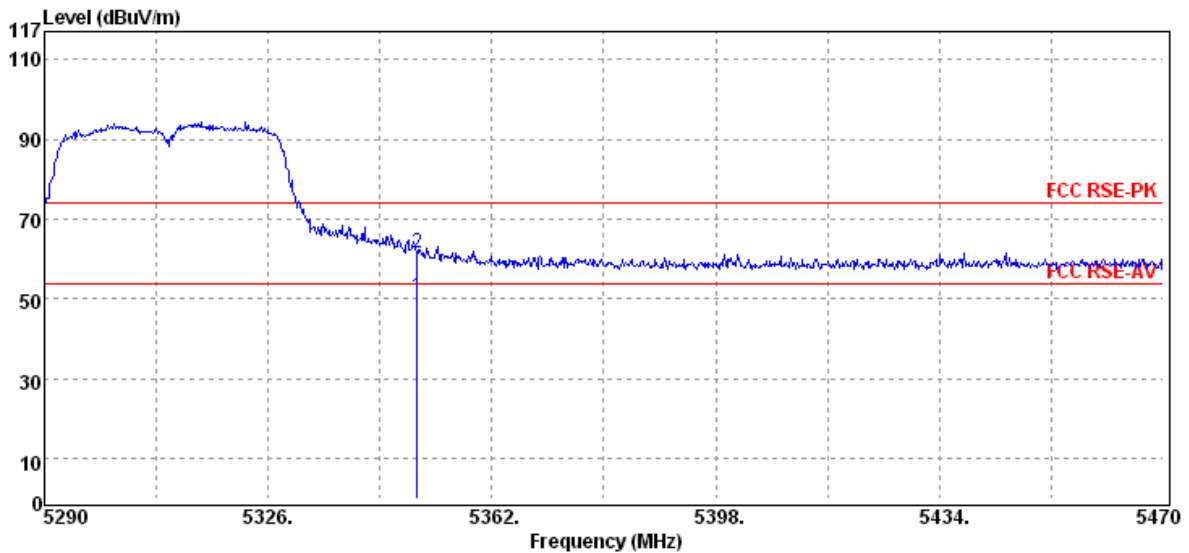
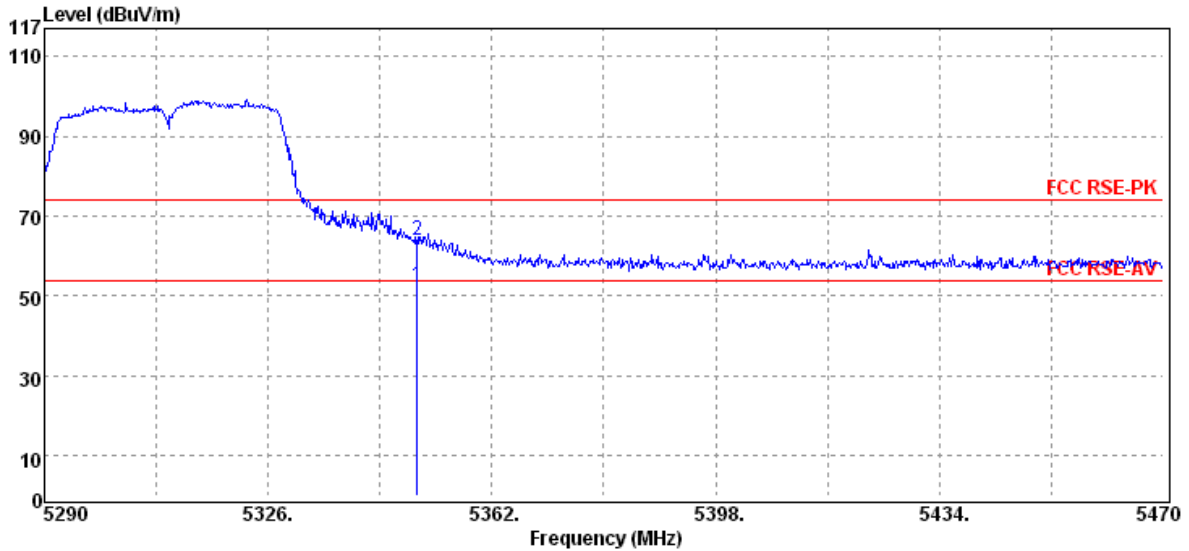


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Operation Band	:802.11n 40M	Test Date	:2012-11-28
Fundamental Frequency	:5310 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX BANDEDGE	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.

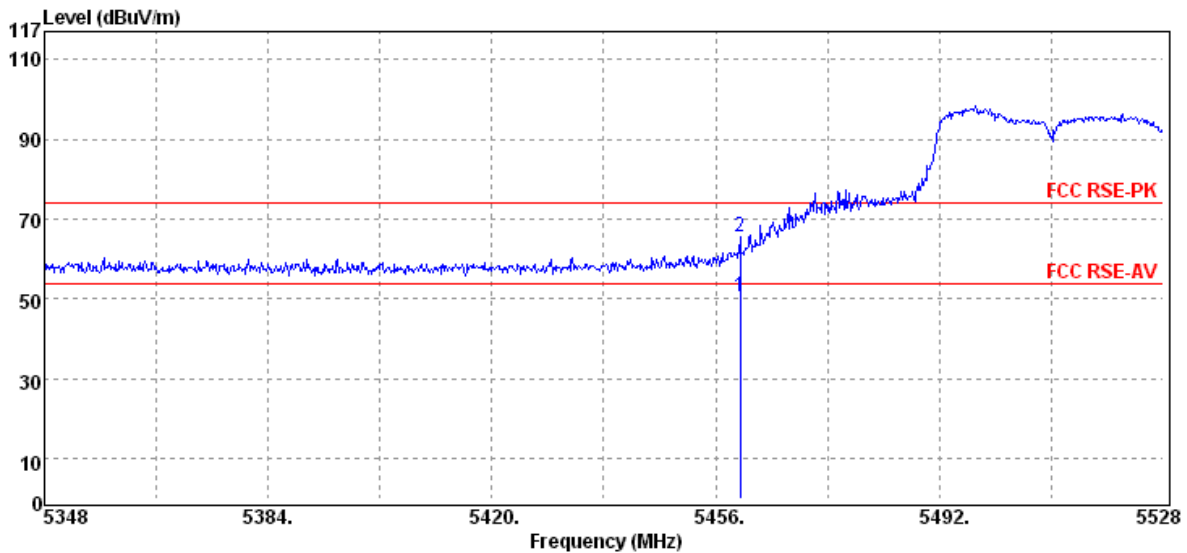
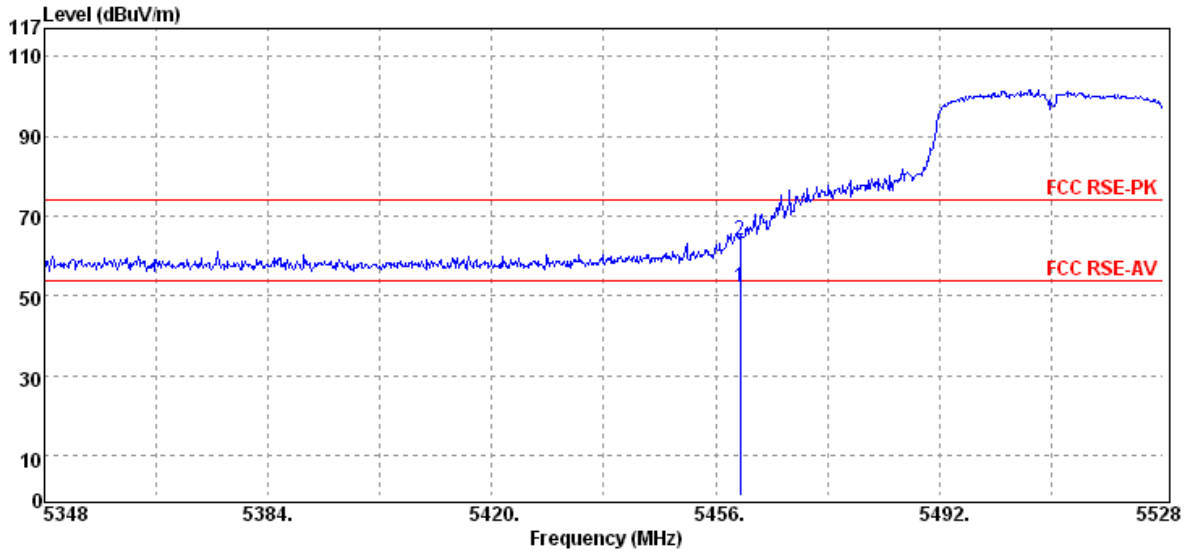


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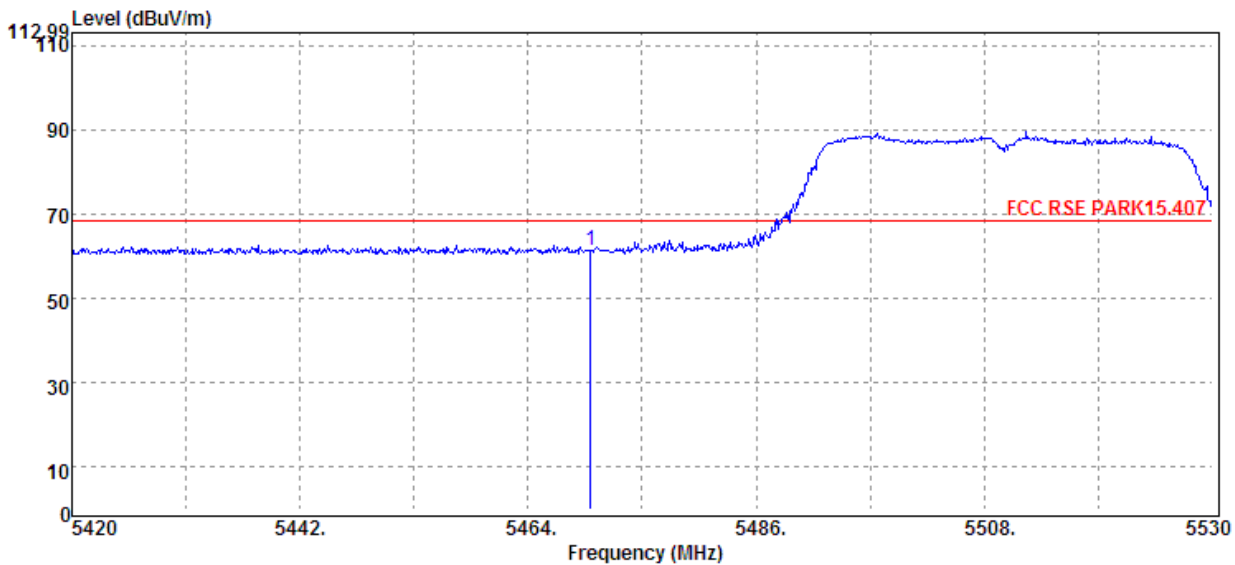
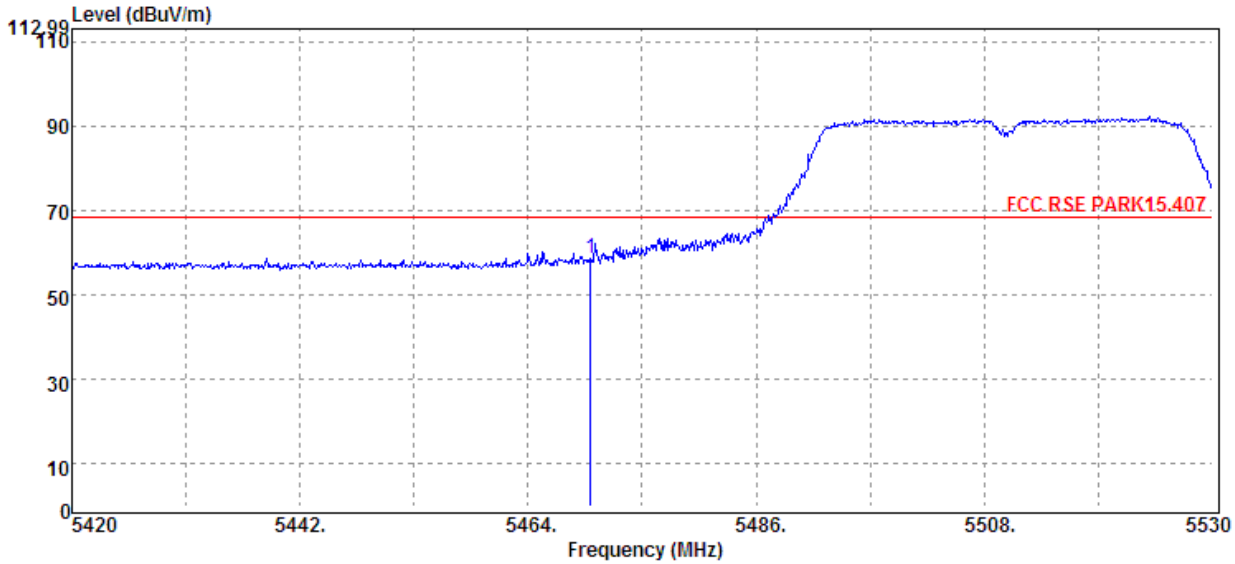
Operation Band	:802.11n 40M	Test Date	:2012-11-28
Fundamental Frequency	:5510 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX BANDEDGE	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.



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Operation Band	:802.11 n40	Test Date	:2013-05-03
Fundamental Frequency	:5510 MHz	Temp./Humi.	:23.4deg_C / 57 RH
Operation Mode	:Bandedge LOW	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	: Ver. / Hor.



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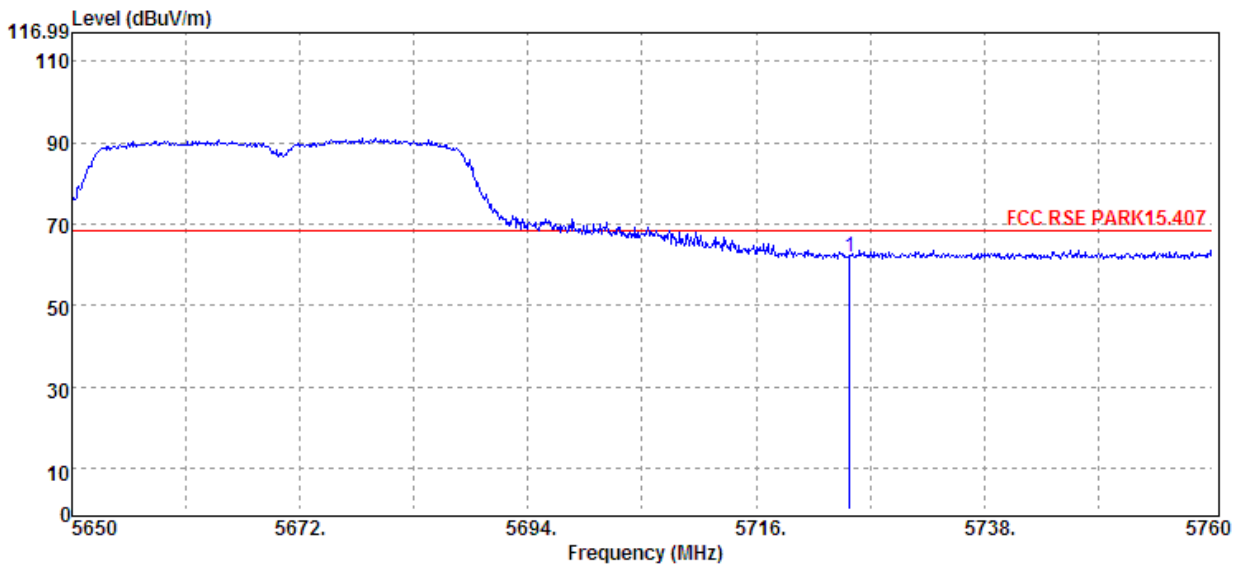
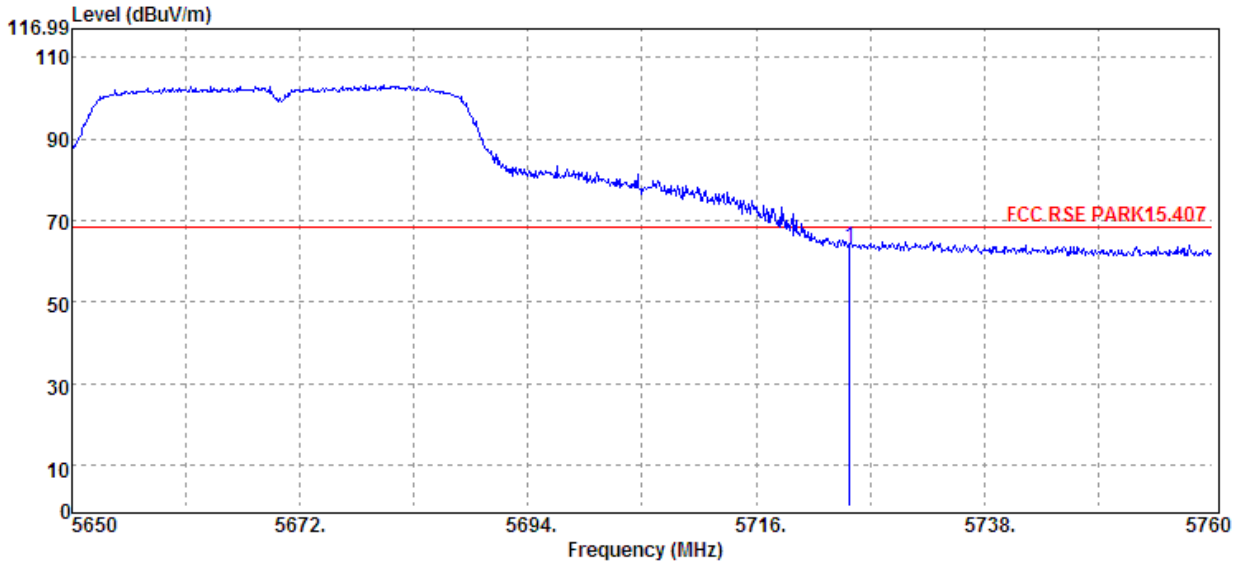
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Operation Band	:802.11 n40	Test Date	:2013-05-03
Fundamental Frequency	:5670 MHz	Temp./Humi.	:23.4deg_C / 57 RH
Operation Mode	:Bandedge HIGH	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	: Ver. / Hor.



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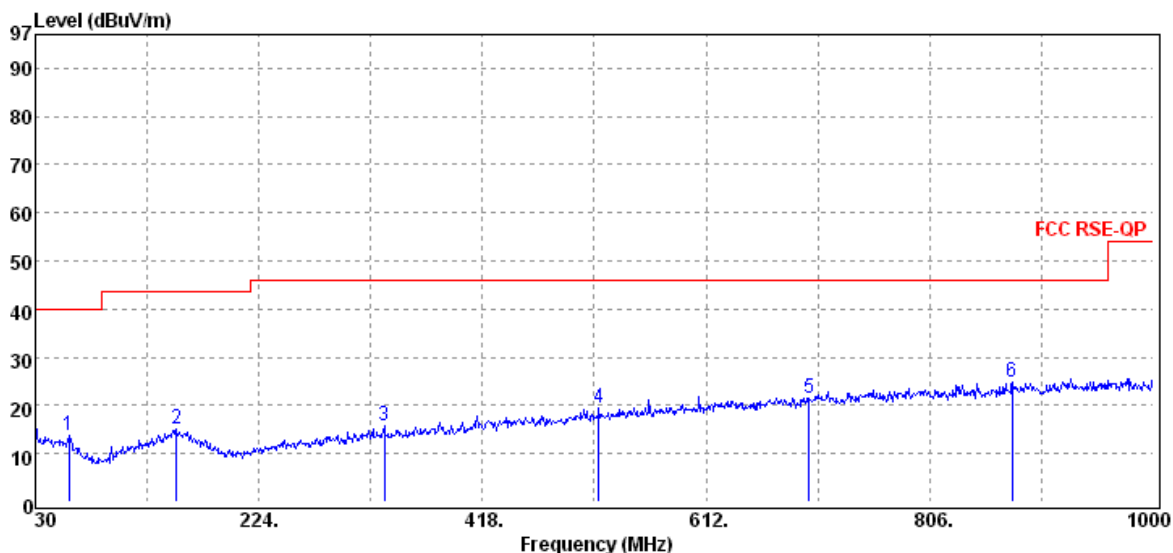
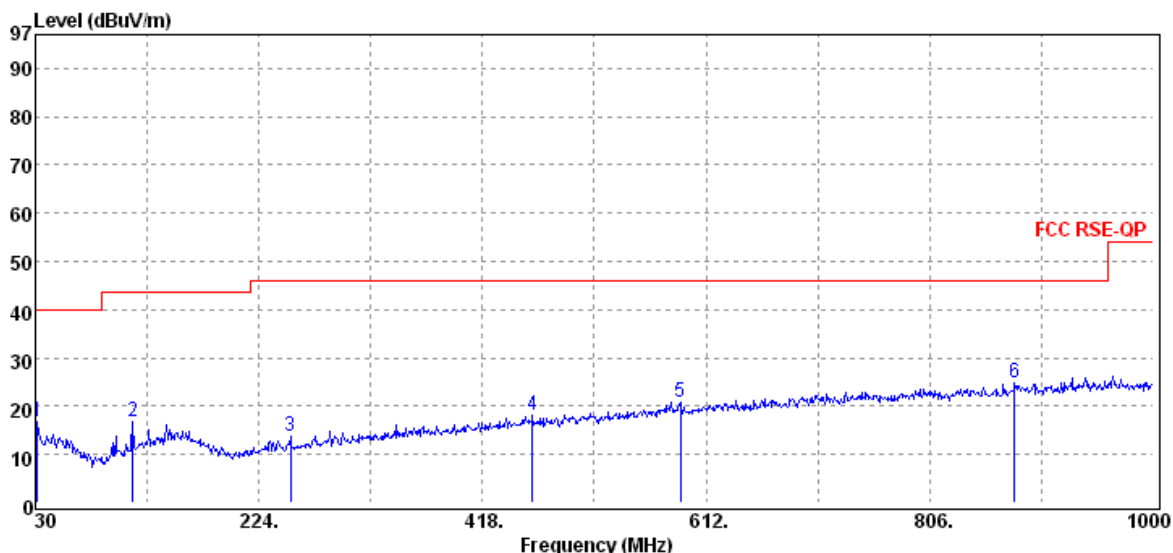
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### Radiated Spurious Emission Measurement photos Result (below 1GHz)

#### 802.11a 5150-5250MHz

Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5180 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.

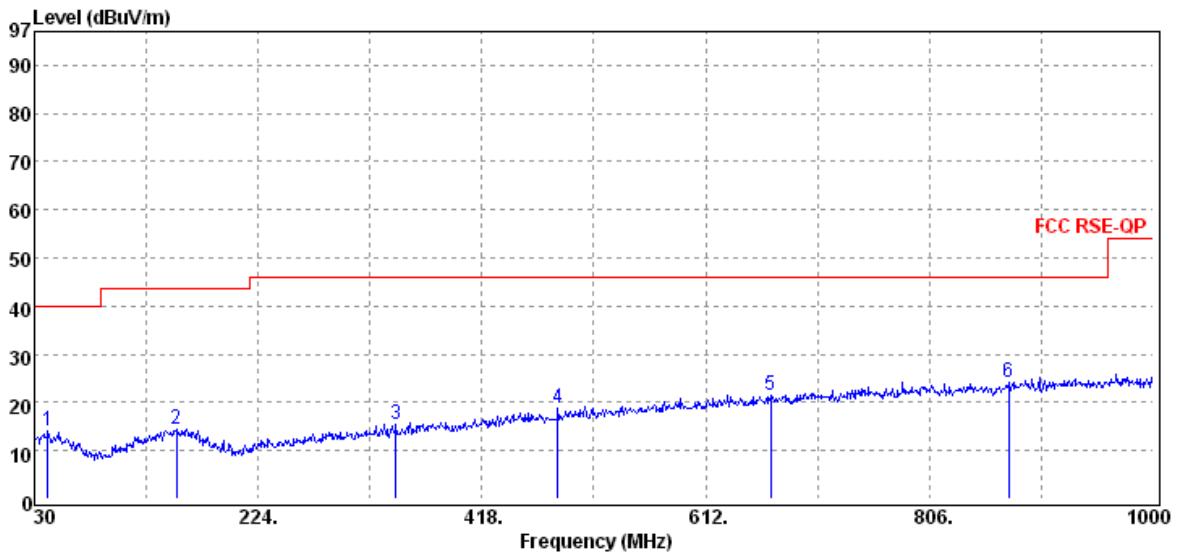
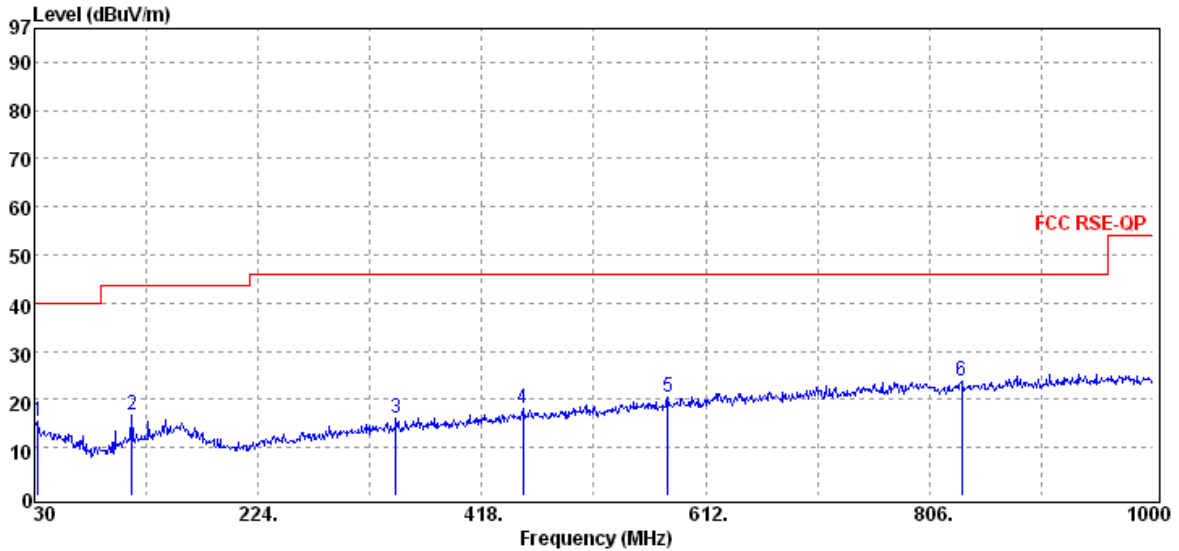


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Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5220 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.



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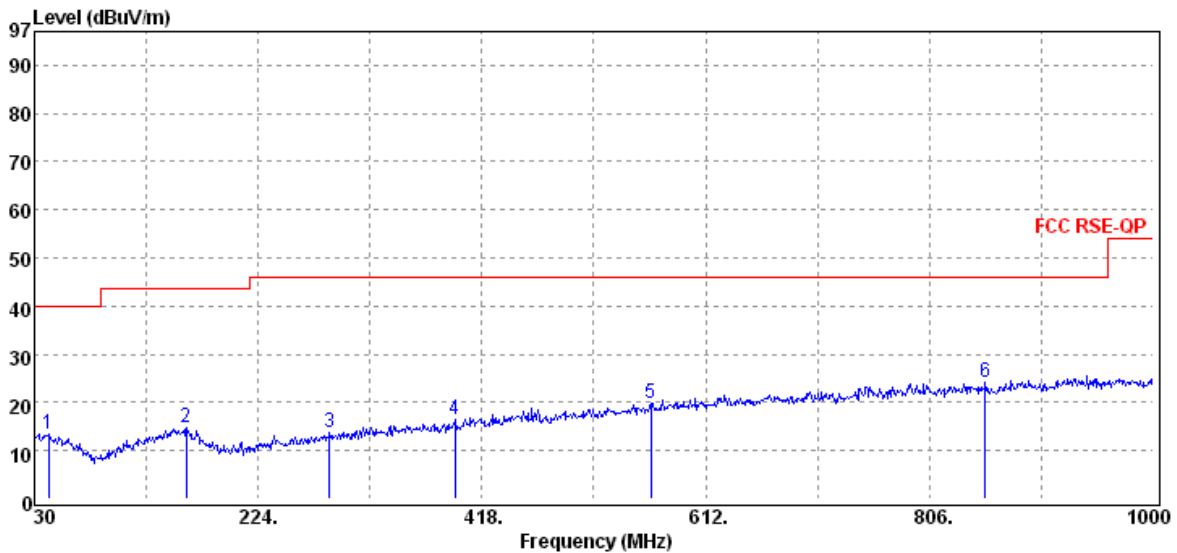
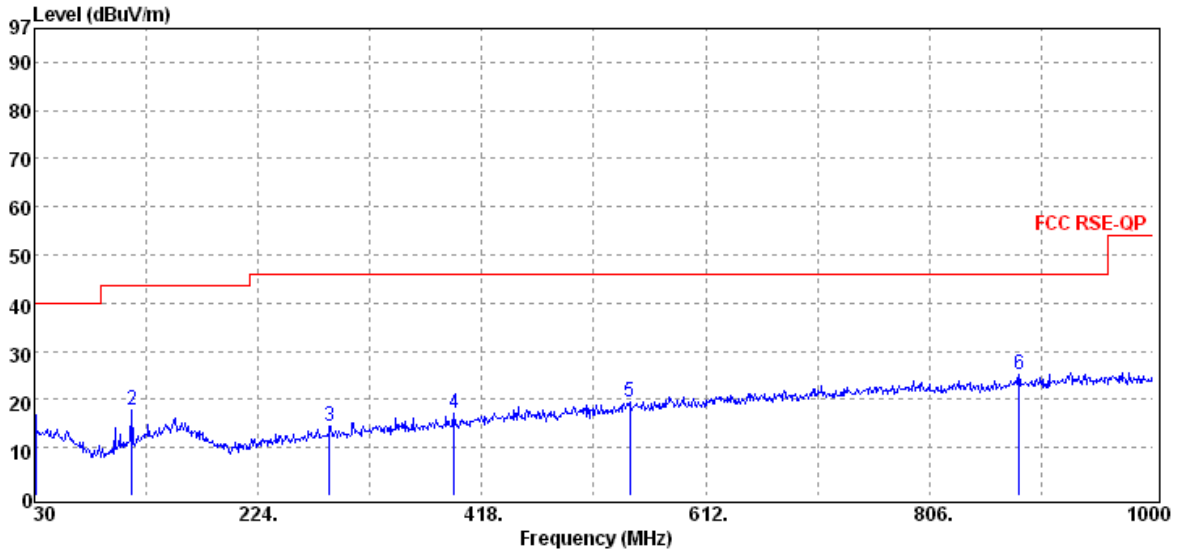
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Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5240 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.

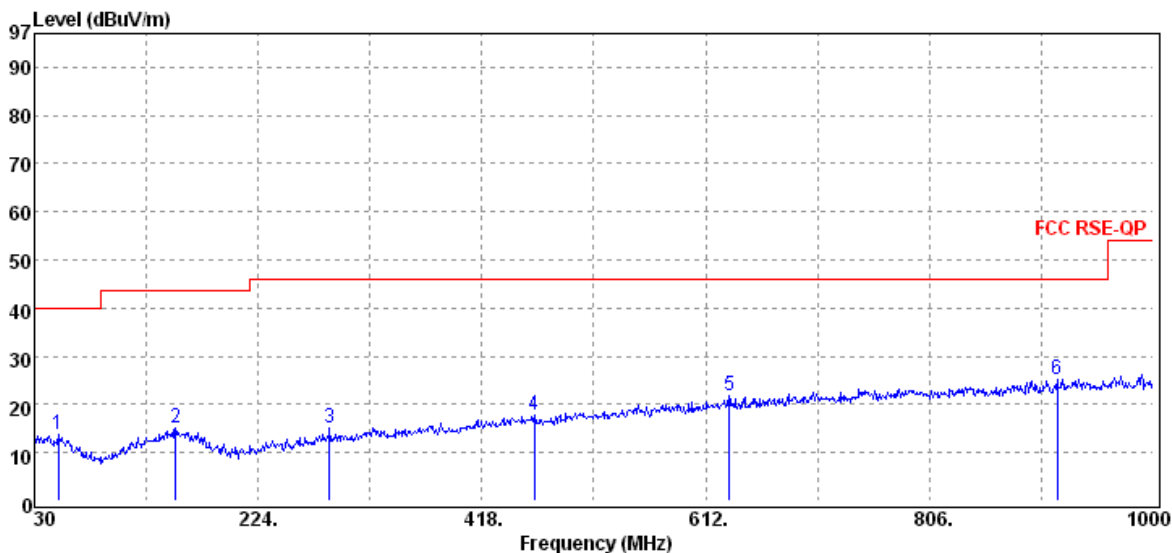
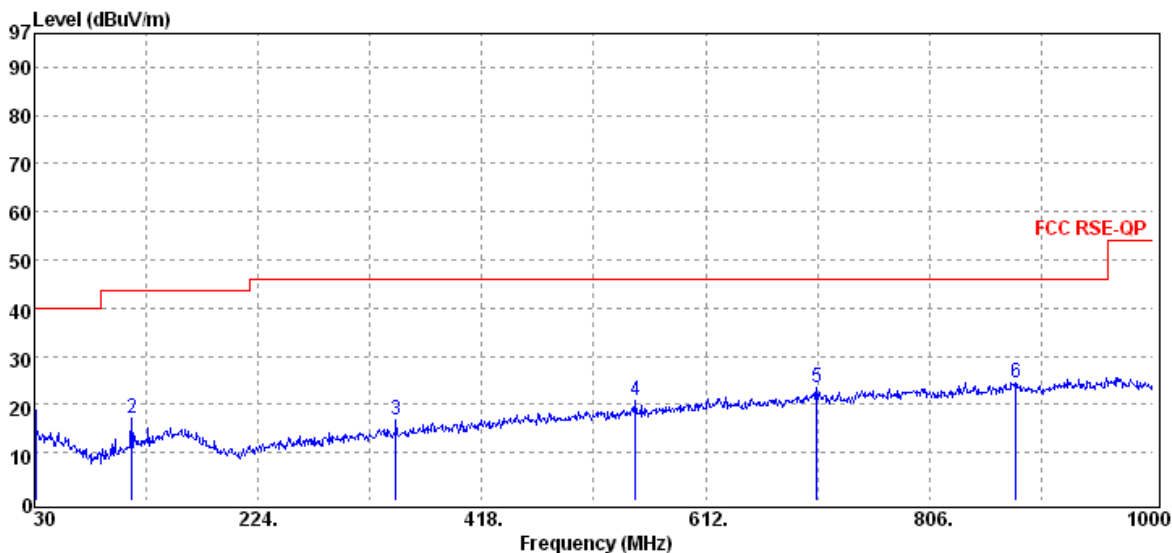


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**802.11a 5250-5350MHz**

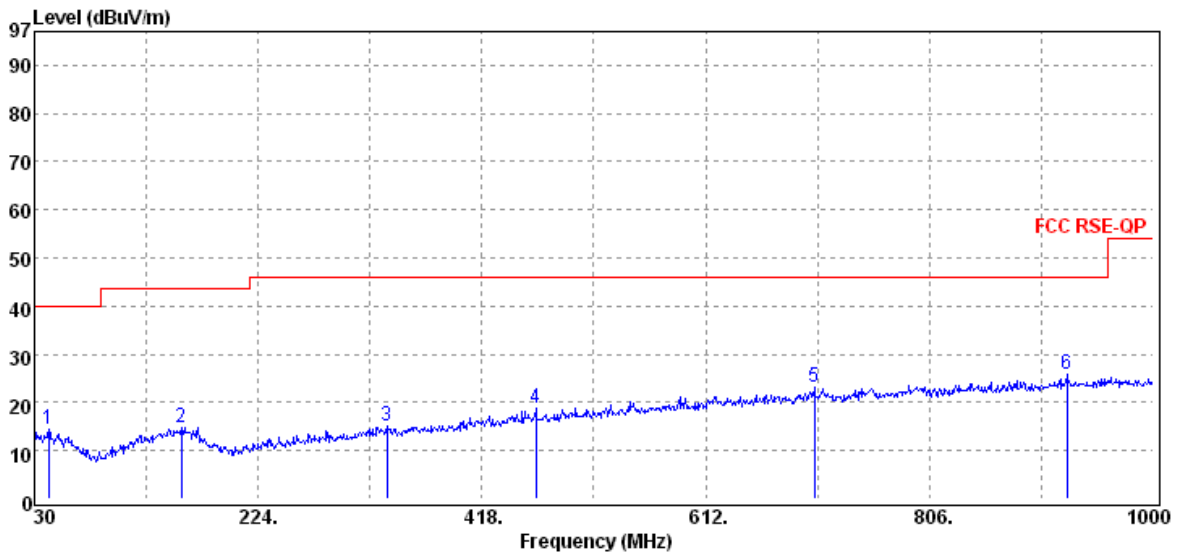
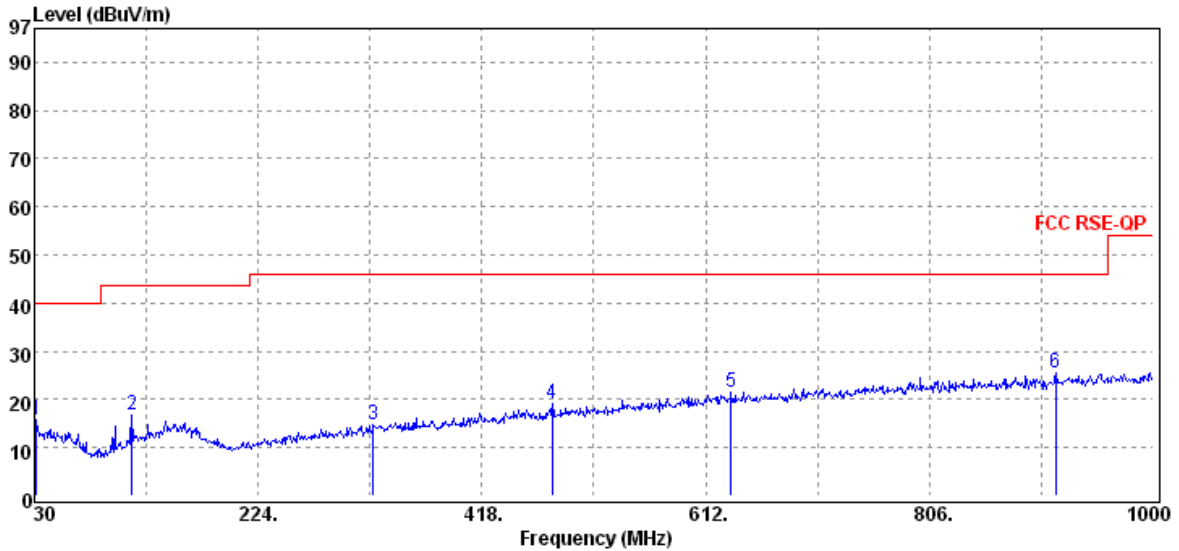
Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5260 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.



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Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5300 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.

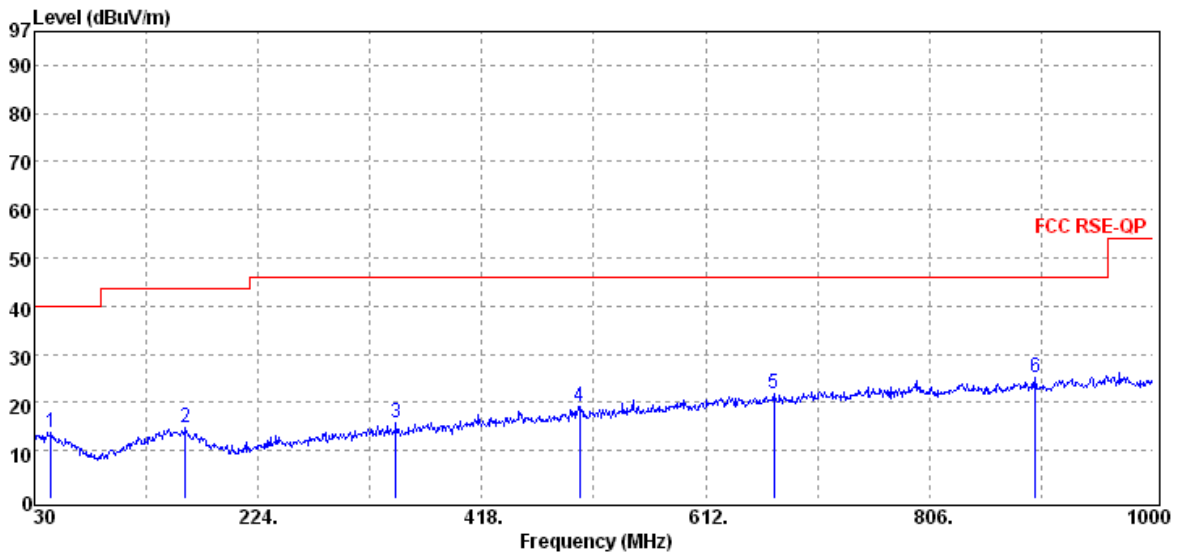
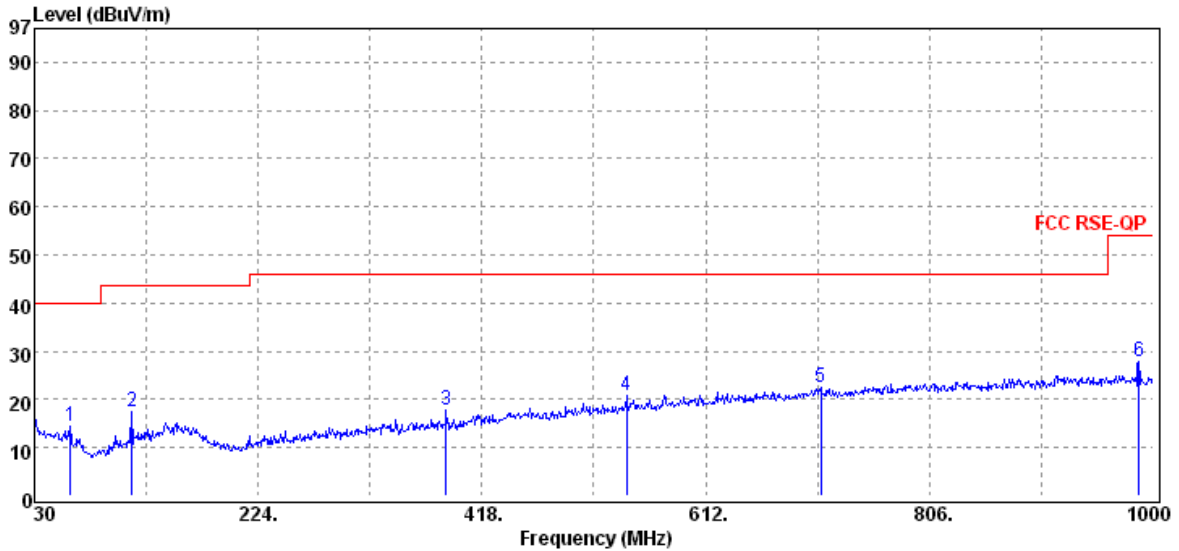


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Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5320 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.



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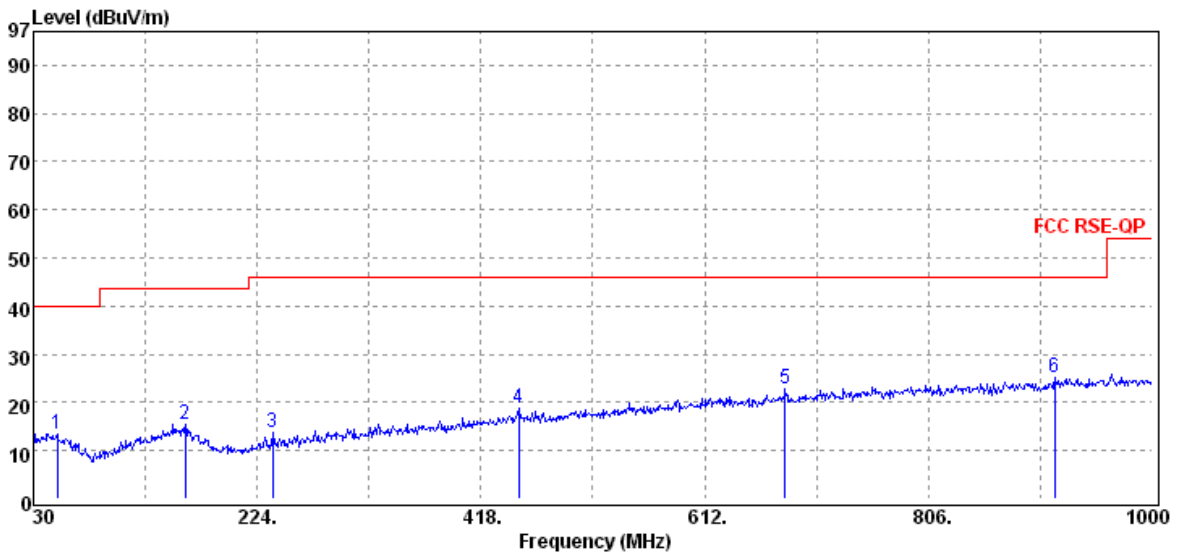
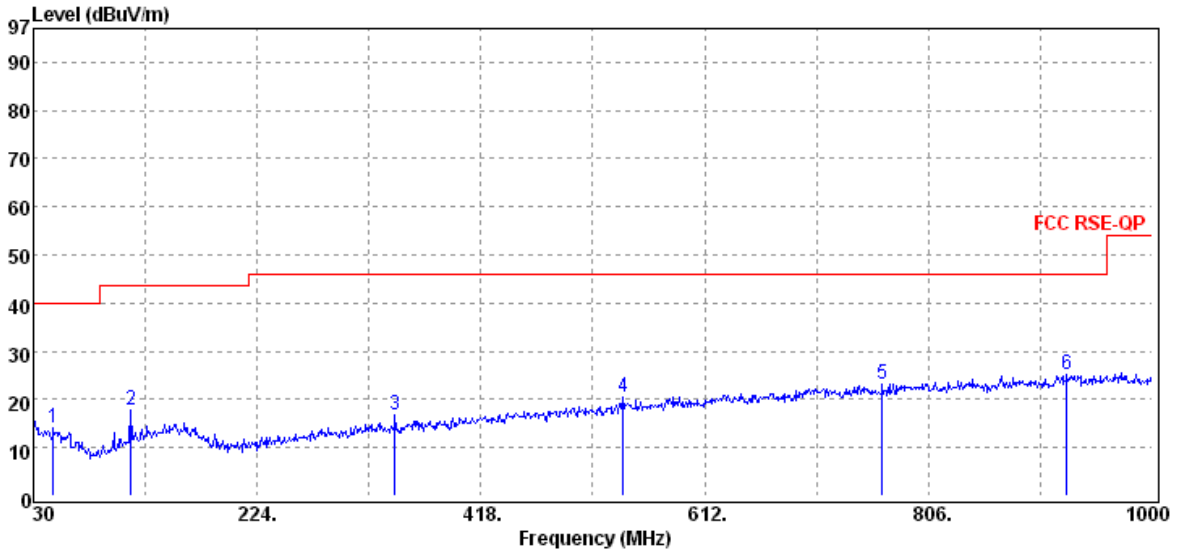
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**802.11a 5470-5725MHz**

Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5500 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.



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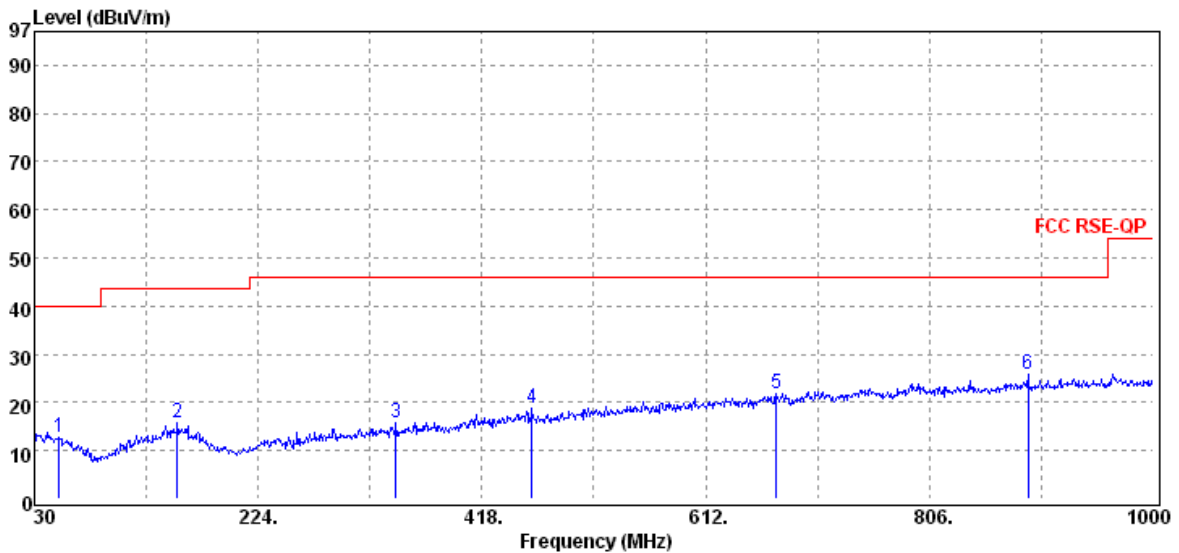
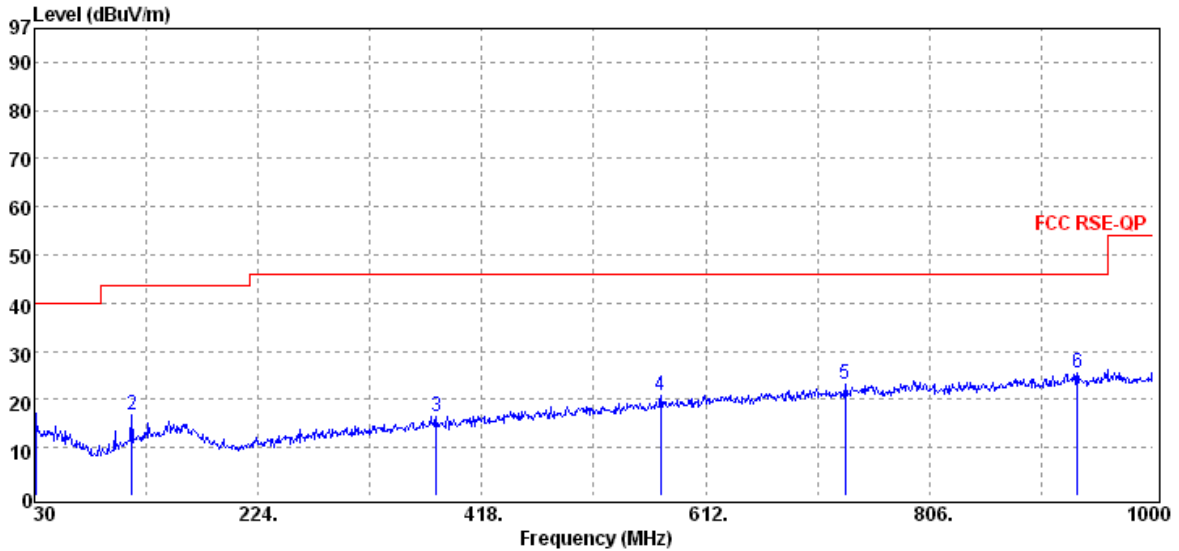
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Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5580 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.



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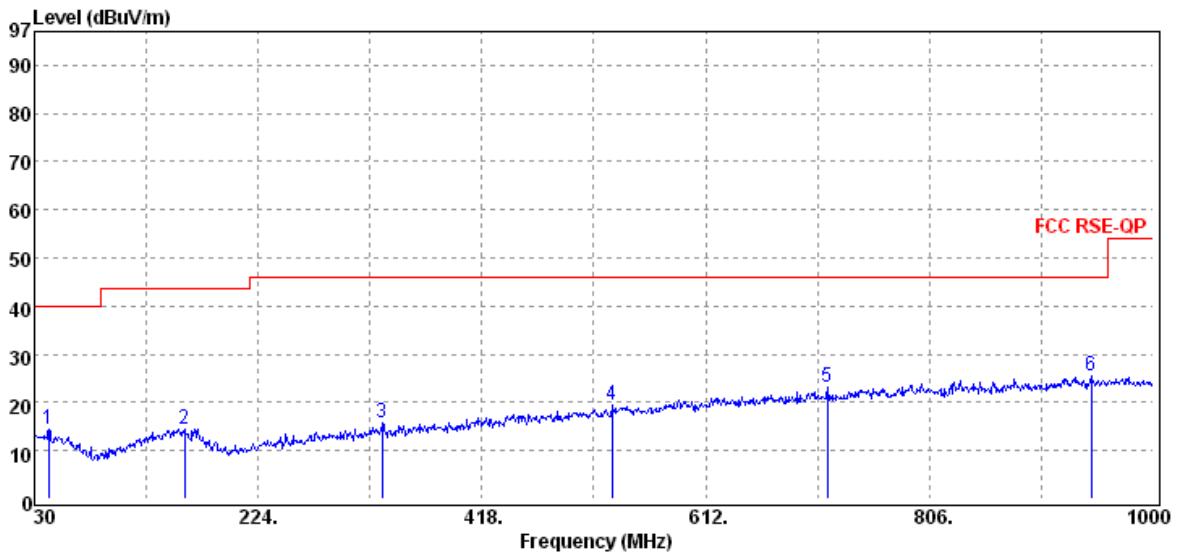
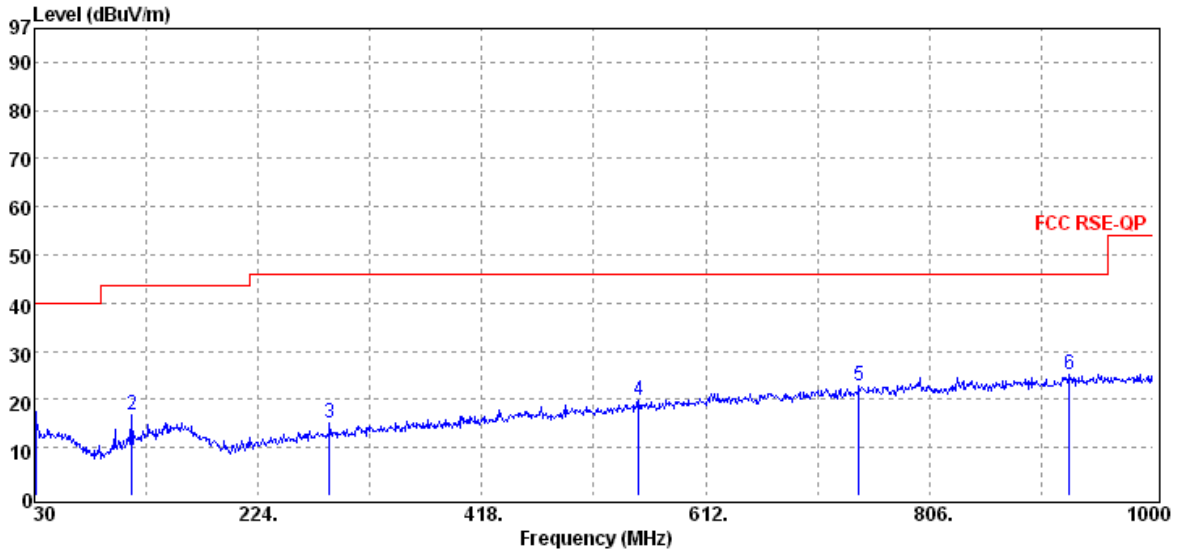
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Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5700 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.

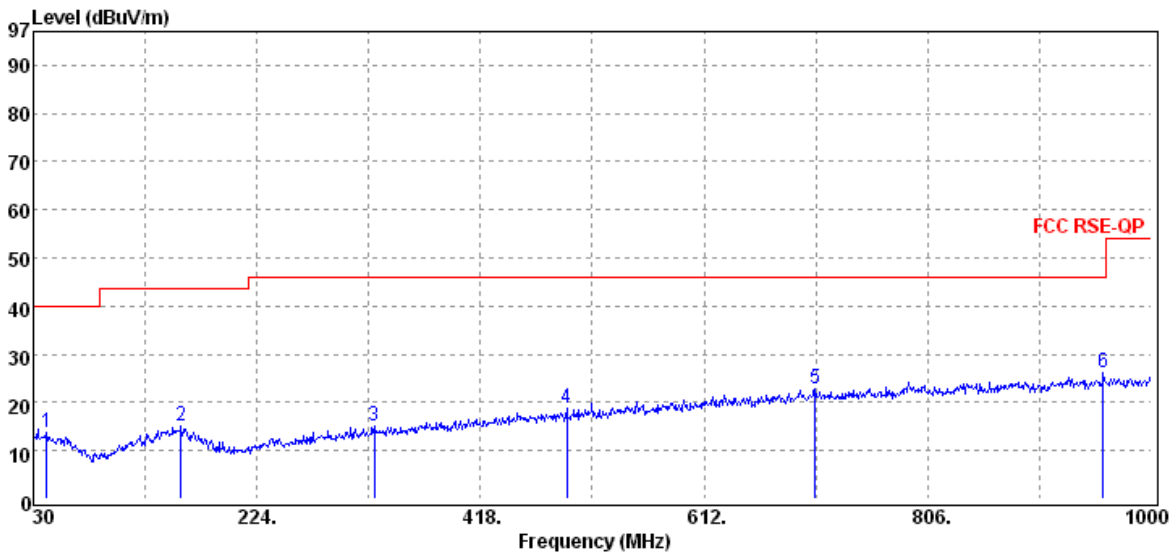
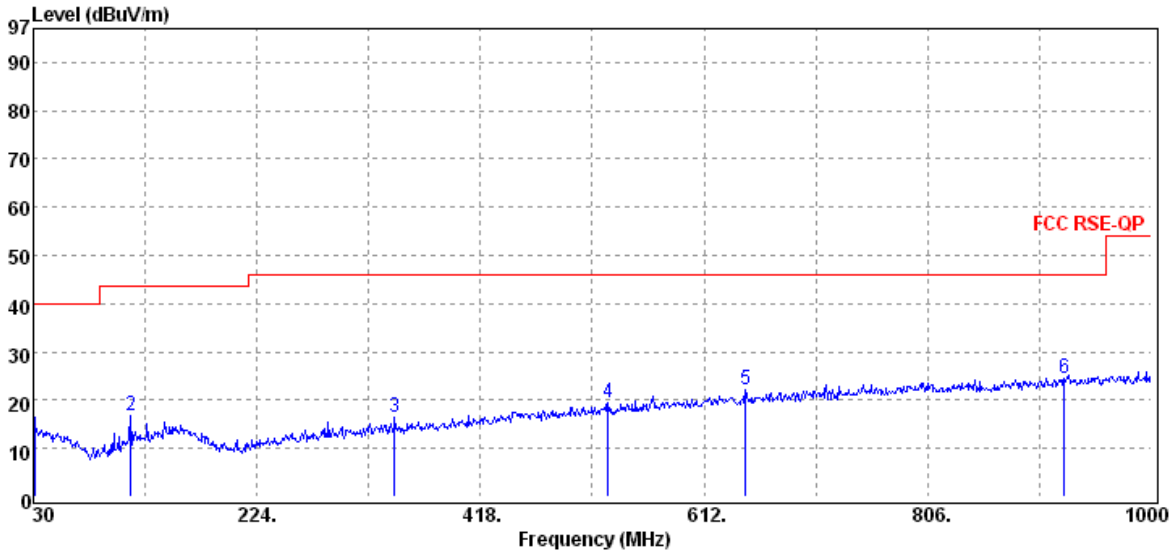


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**802.11n\_20M\_5150-5250MHz**

Operation Band	:802.11n 20M	Test Date	:2012-11-28
Fundamental Frequency	:5180 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.



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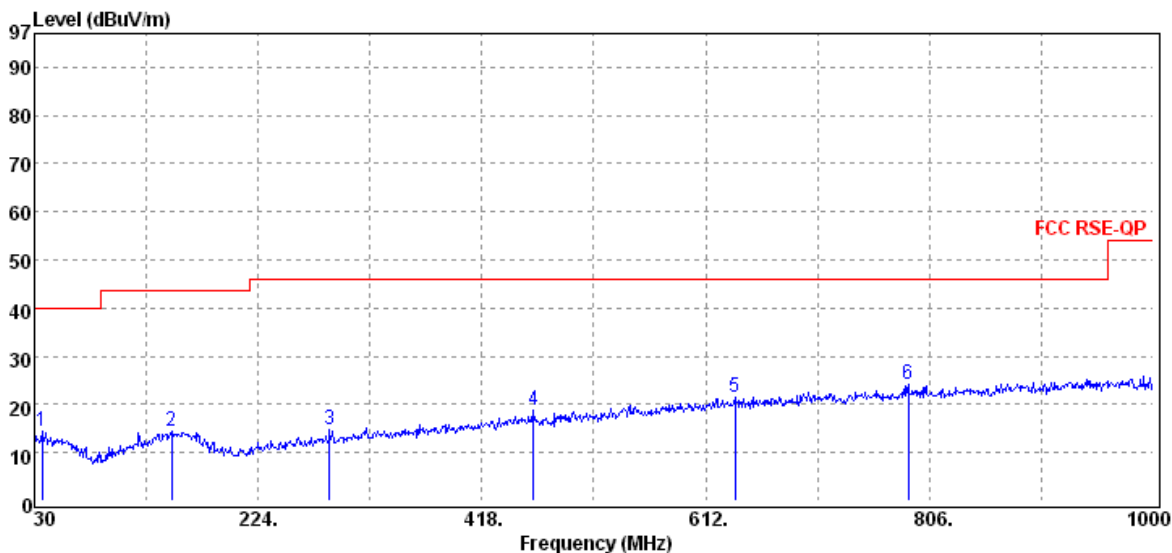
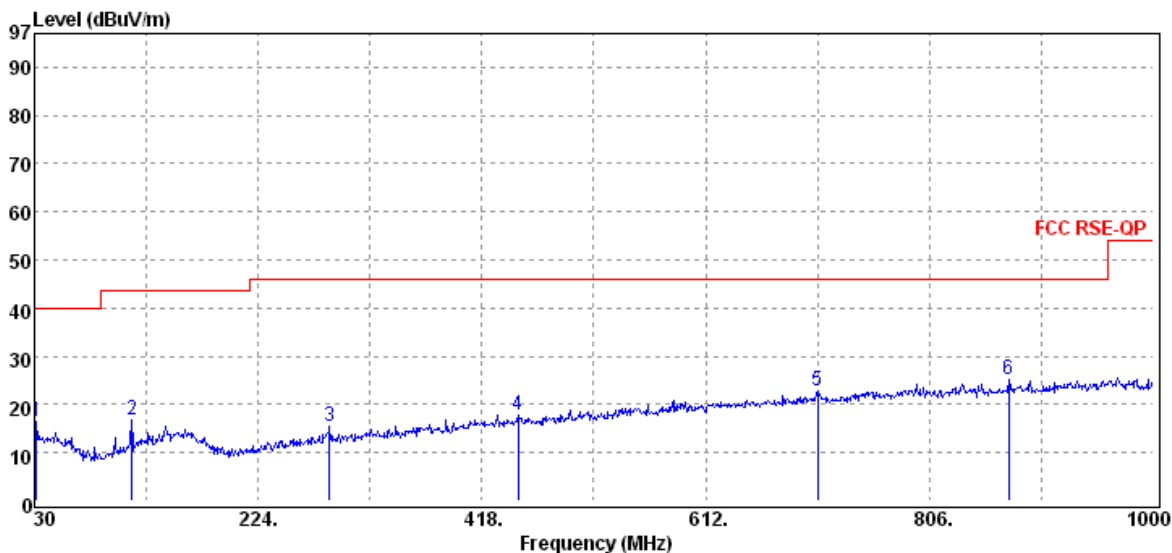
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Operation Band	:802.11n 20M	Test Date	:2012-11-28
Fundamental Frequency	:5220 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.



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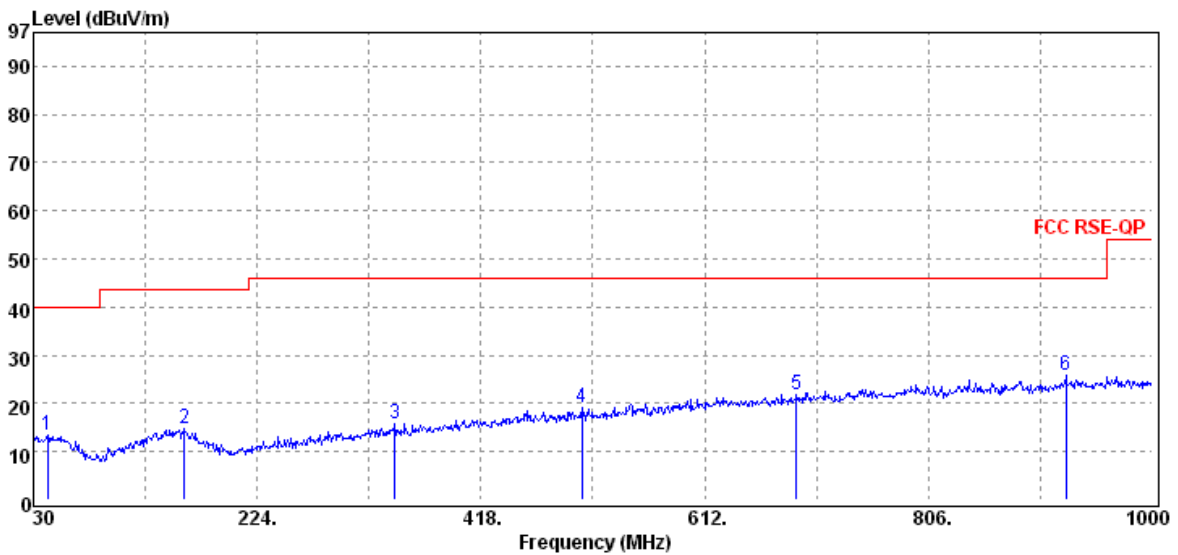
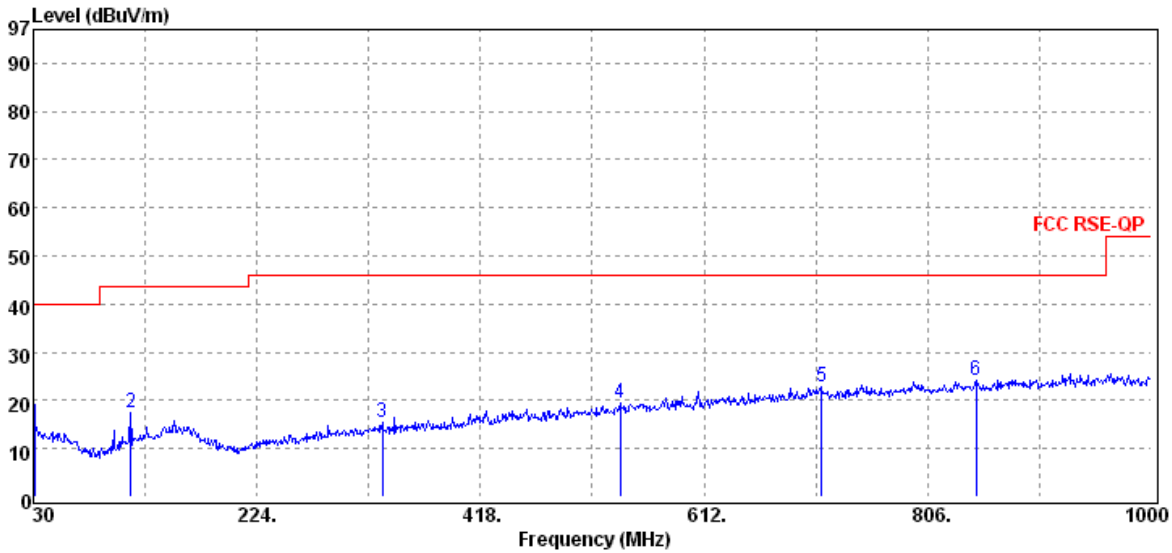
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Operation Band	:802.11n 20M	Test Date	:2012-11-28
Fundamental Frequency	:5240 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.



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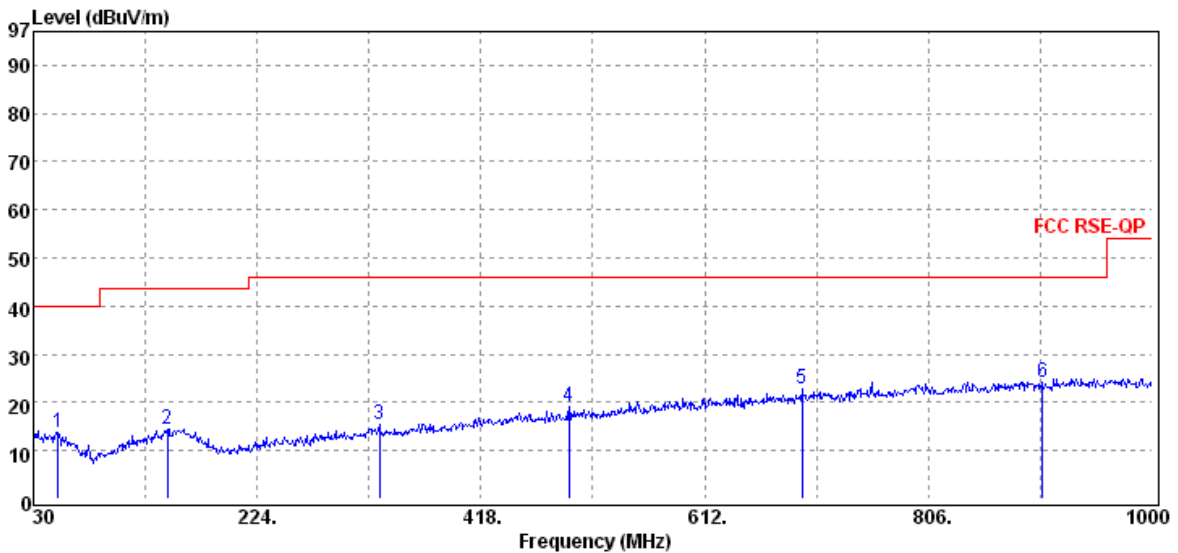
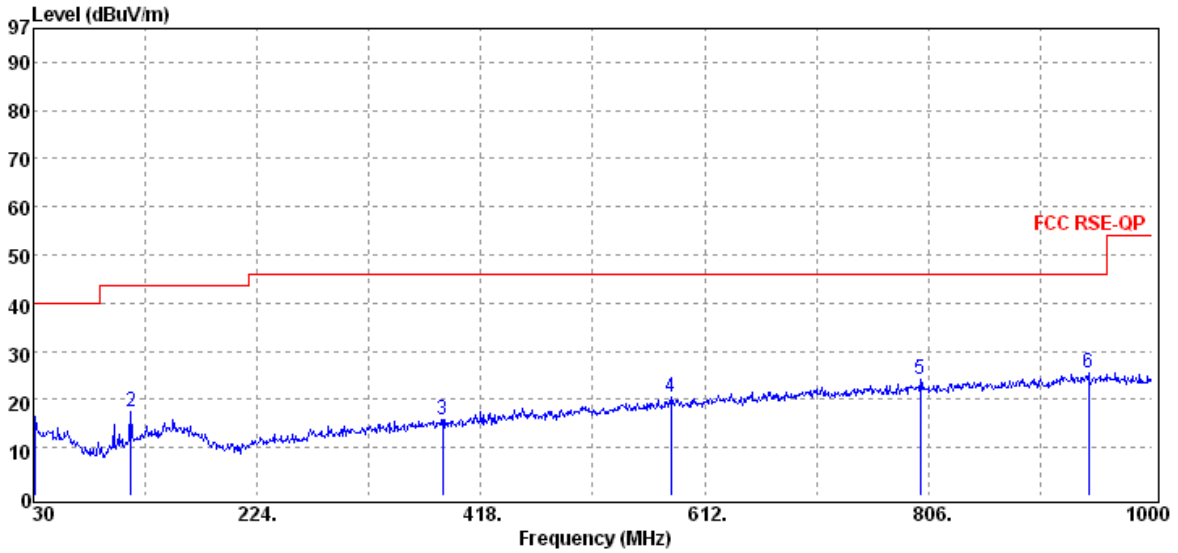
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**802.11n\_20M\_5250-5350MHz**

Operation Band :802.11n 20M  
Fundamental Frequency :5260 MHz  
Operation Mode :TX LOW  
EUT Pol. :E2 Plan

Test Date :2012-11-28  
Temp./Humi. :22.7deg\_C/57RH  
Engineer :Marcus  
Measurement Antenna Pol. :Ver. / Hor.



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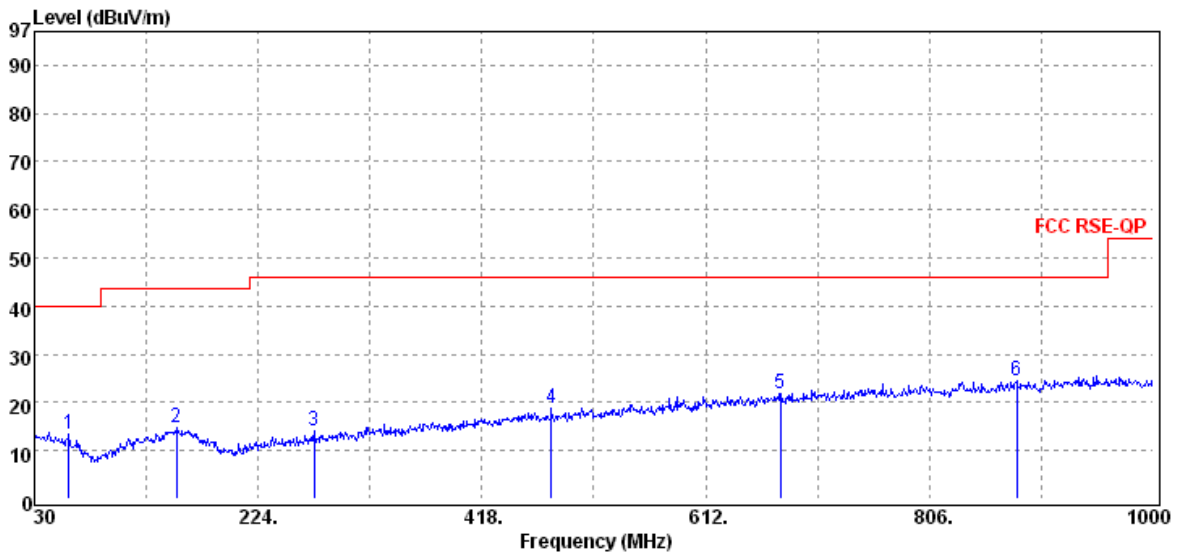
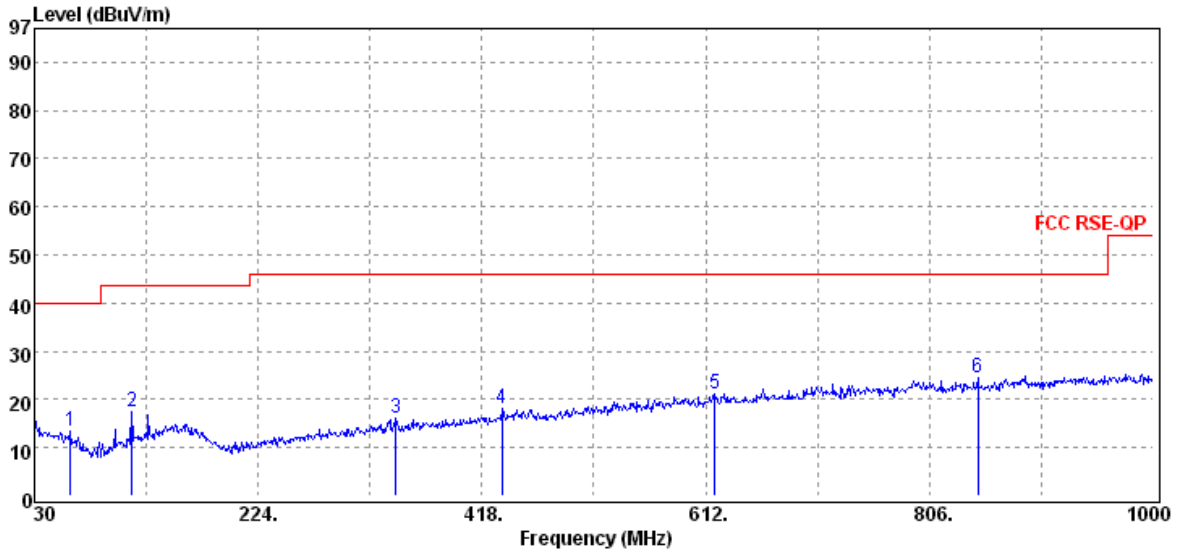
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Operation Band	:802.11n 20M	Test Date	:2012-11-28
Fundamental Frequency	:5300 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.



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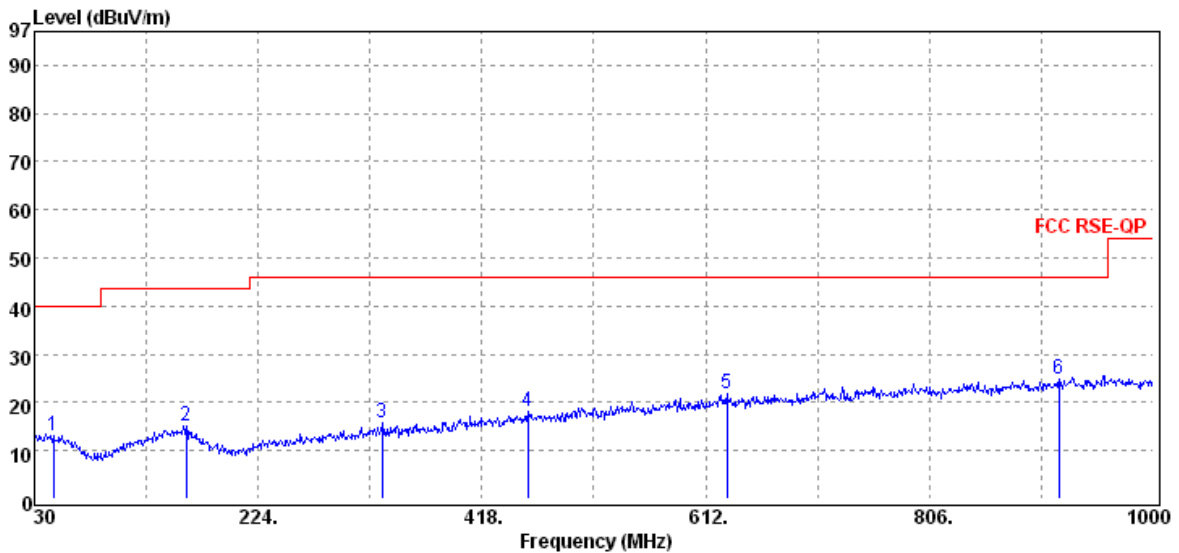
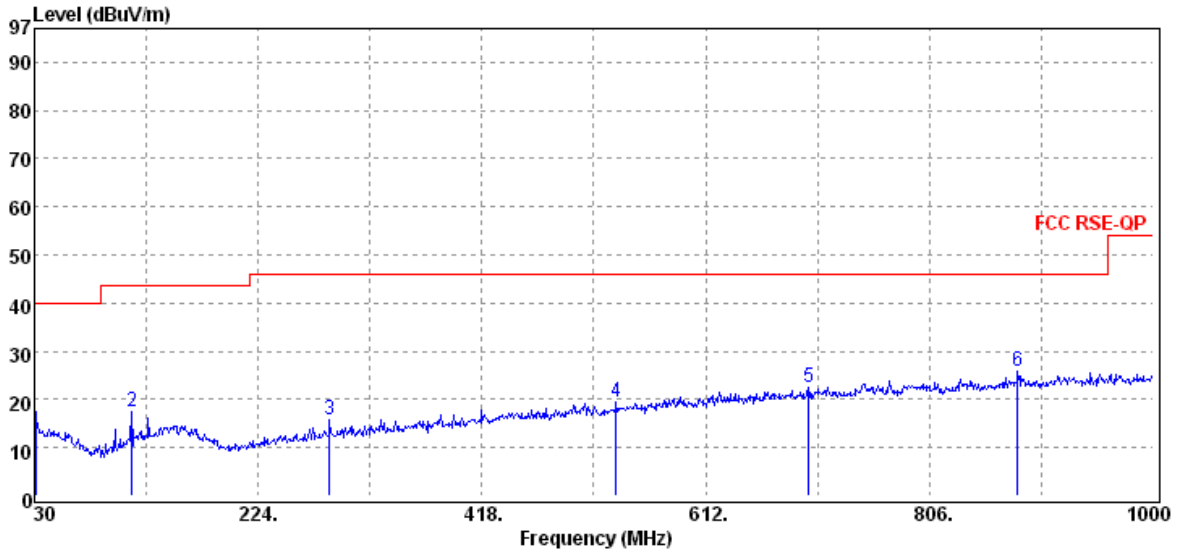
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Operation Band	:802.11n 20M	Test Date	:2012-11-28
Fundamental Frequency	:5320 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.



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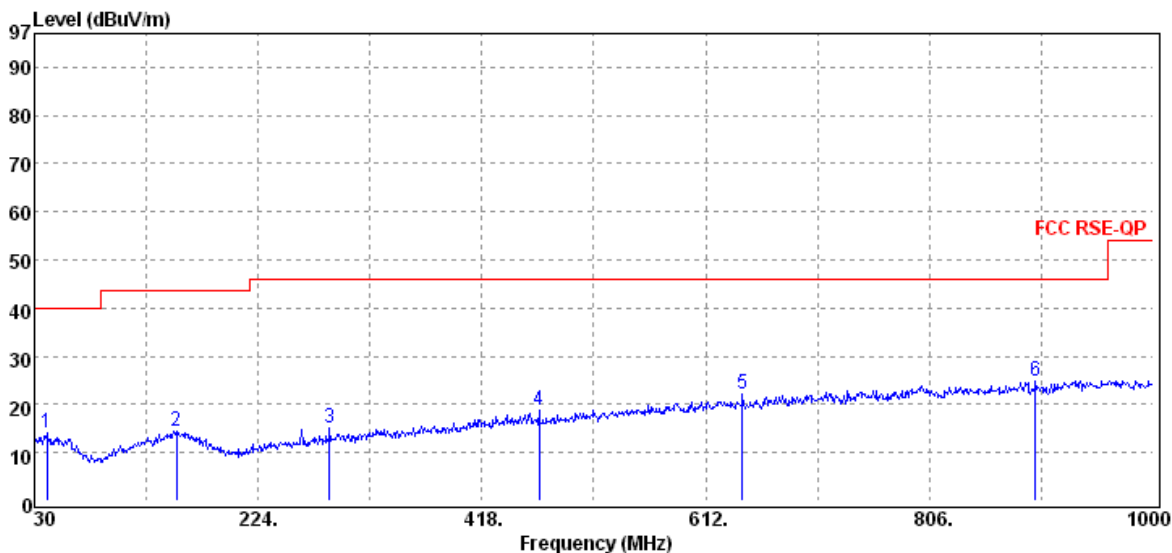
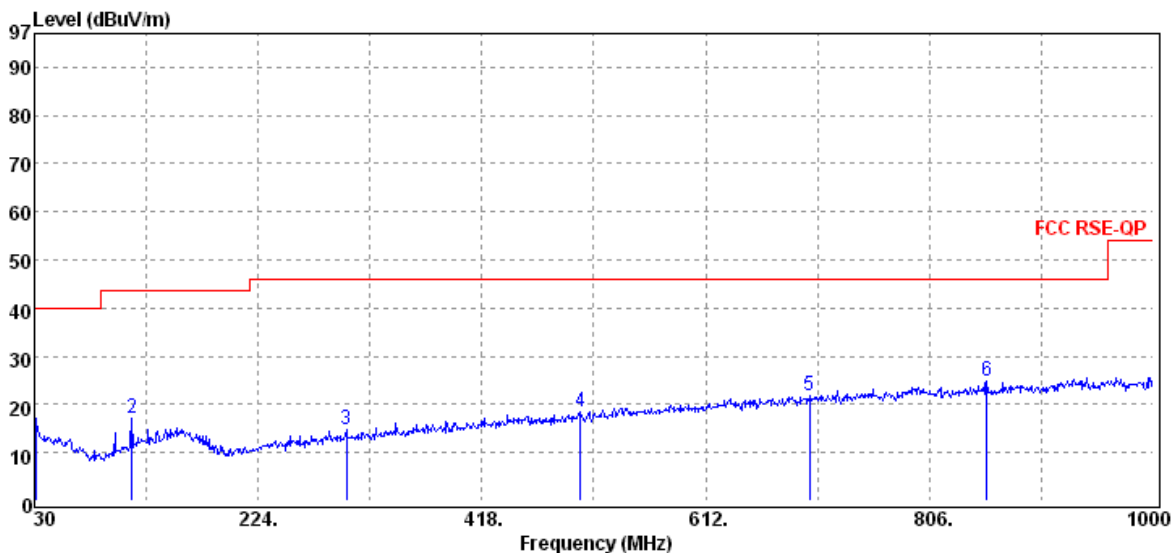
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**802.11n\_20M\_5470-5725MHz**

Operation Band :802.11n 20M  
Fundamental Frequency :5500 MHz  
Operation Mode :TX LOW  
EUT Pol. :E2 Plan

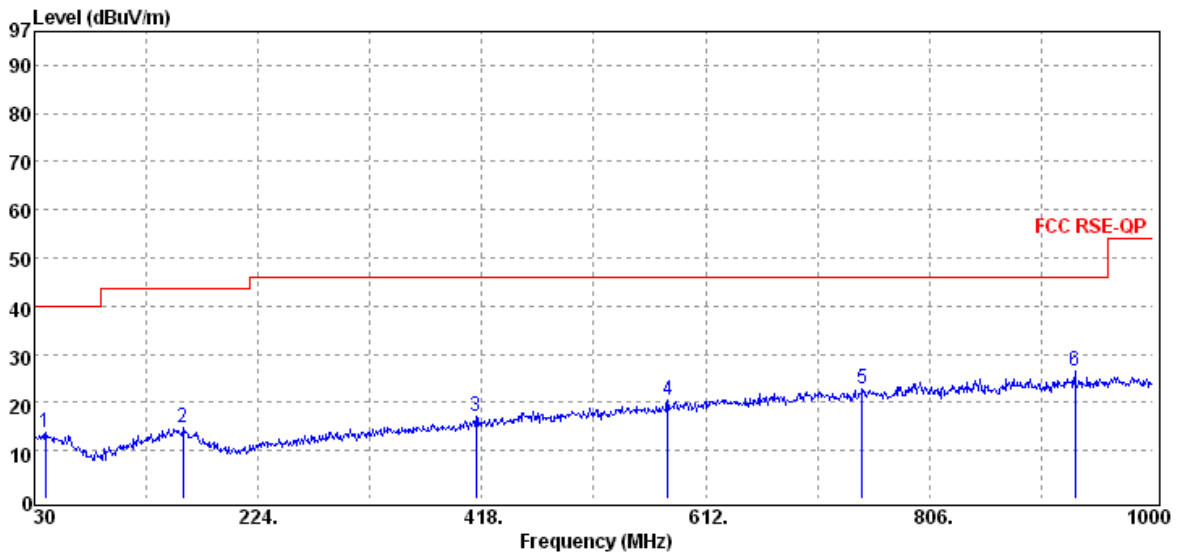
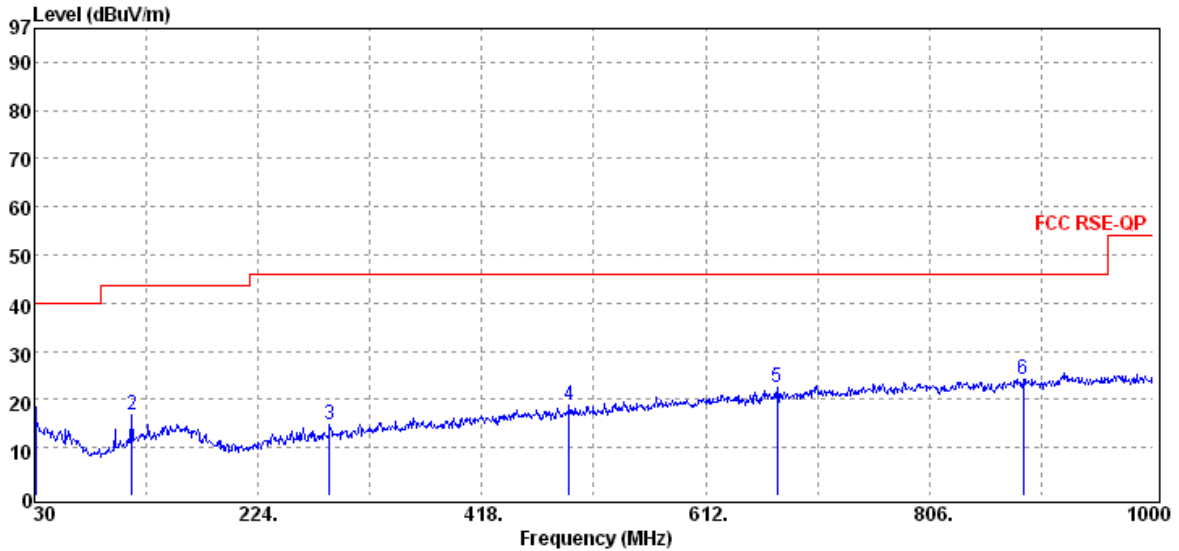
Test Date :2012-11-28  
Temp./Humi. :22.7deg\_C/57RH  
Engineer :Marcus  
Measurement Antenna Pol. :Ver. / Hor.



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Operation Band	:802.11n 20M	Test Date	:2012-11-28
Fundamental Frequency	:5580 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.

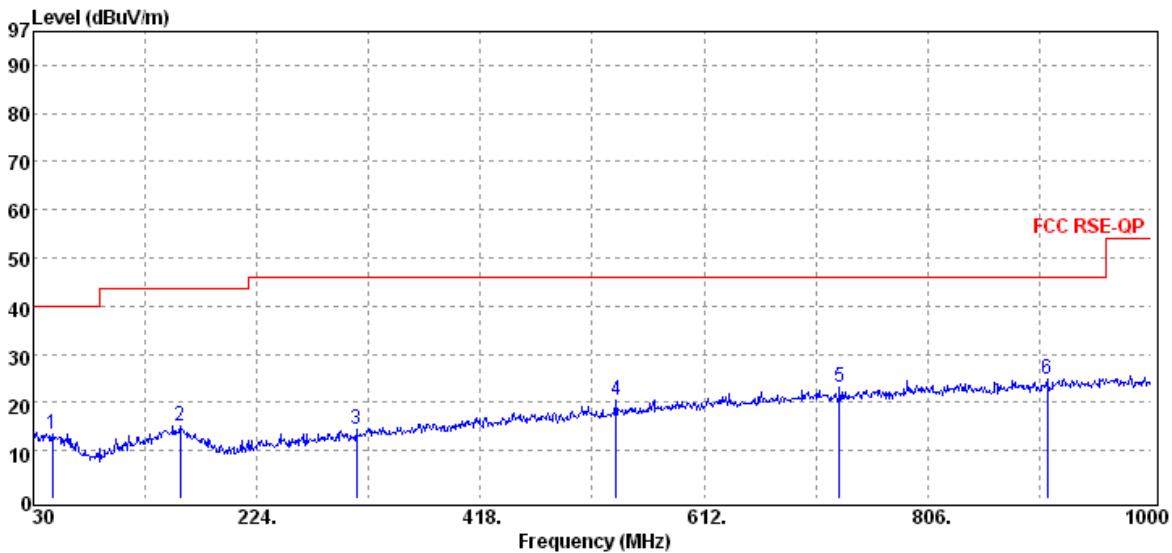
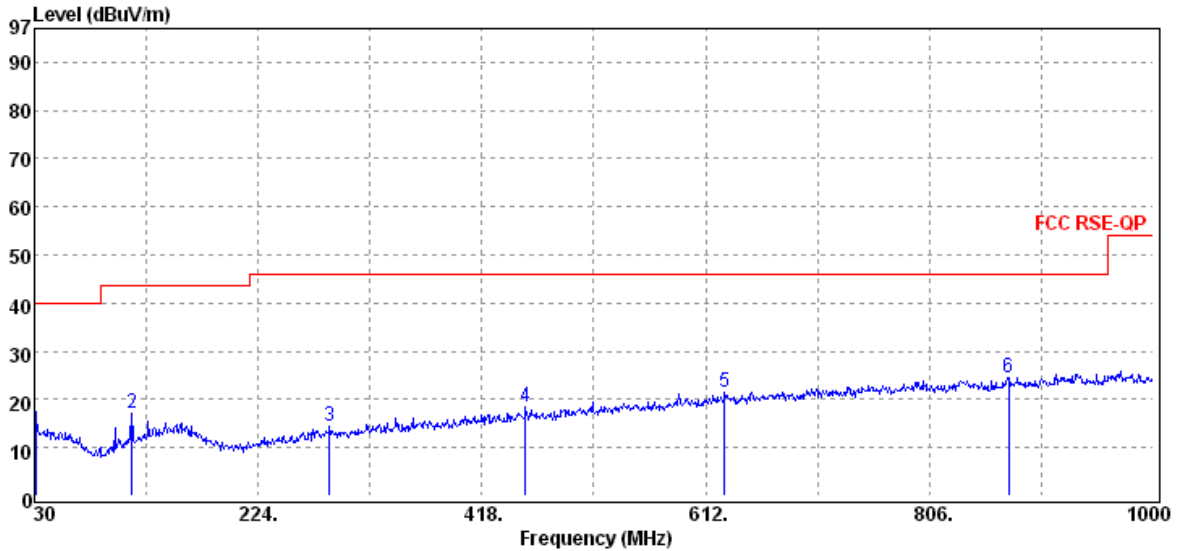


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Operation Band	:802.11n 20M	Test Date	:2012-11-28
Fundamental Frequency	:5700 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.

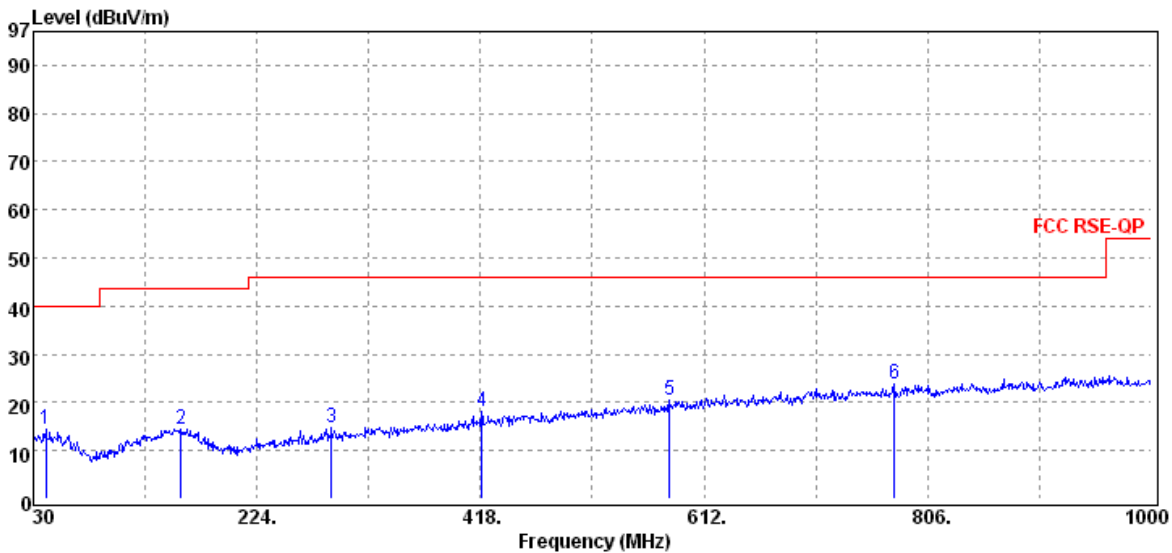
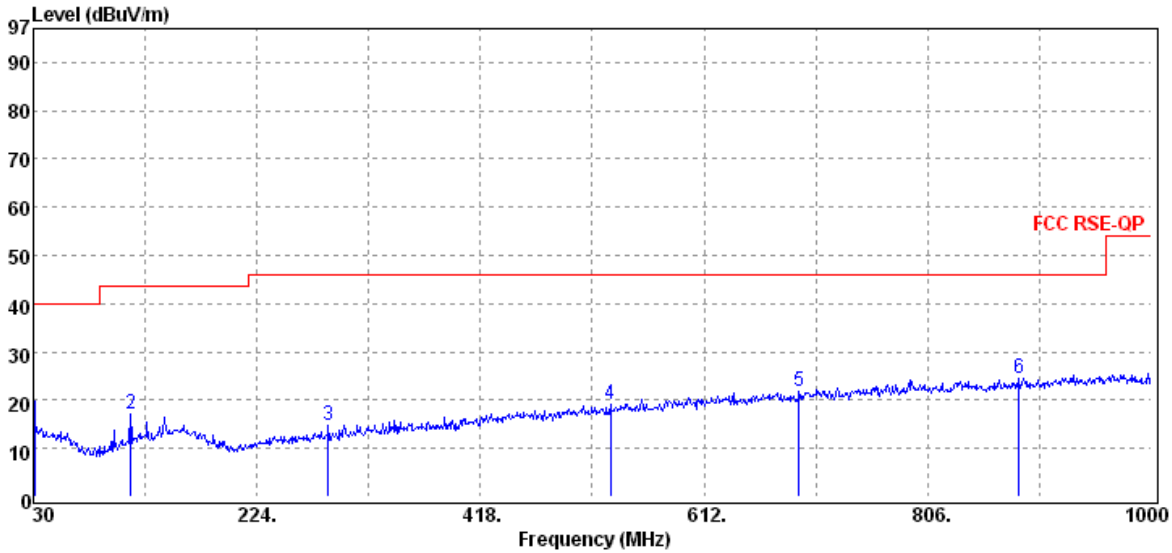


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**802.11n\_40M\_5150-5250MHz**

Operation Band	:802.11n 40M	Test Date	:2012-11-28
Fundamental Frequency	:5190 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.

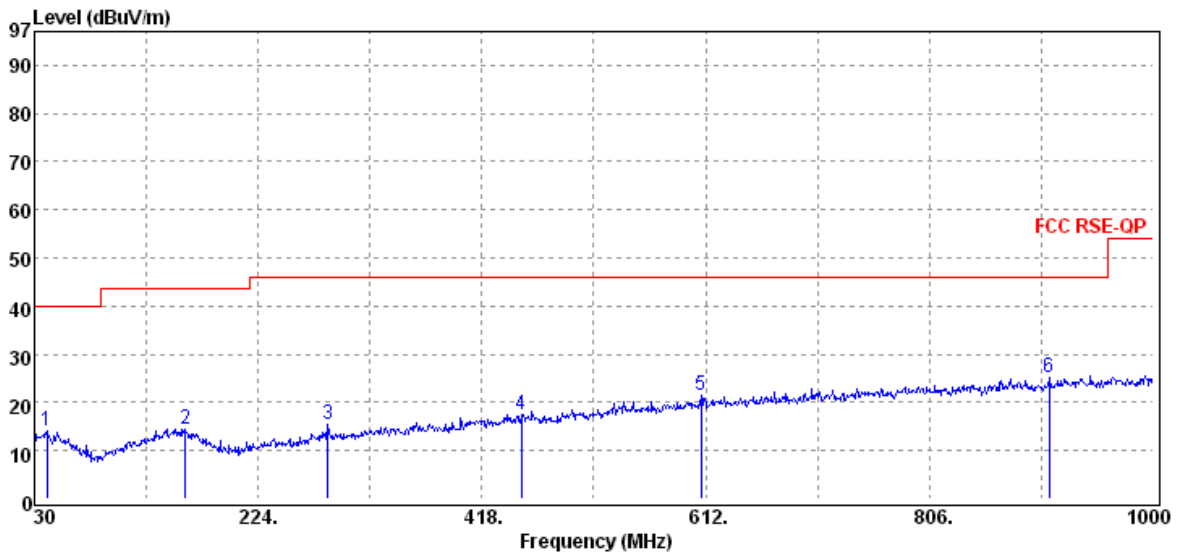
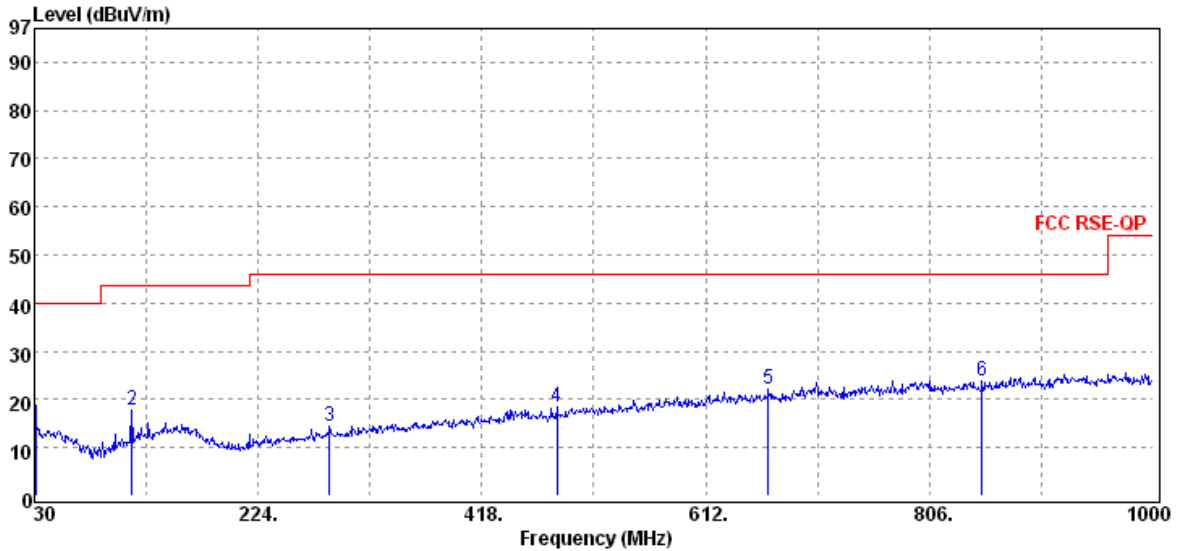


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Operation Band	:802.11n 40M	Test Date	:2012-11-28
Fundamental Frequency	:5230 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.



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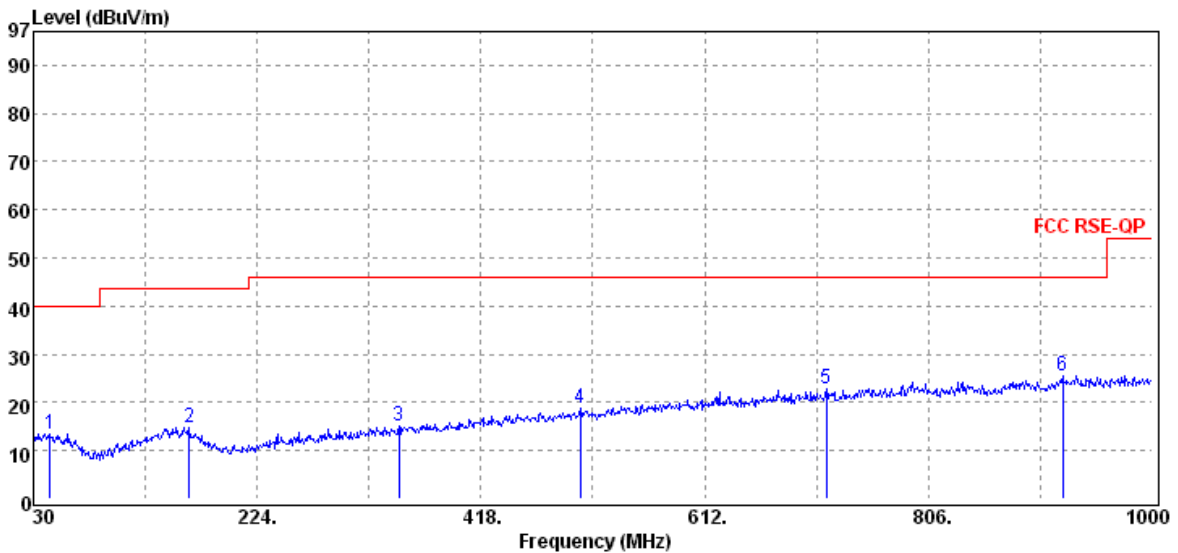
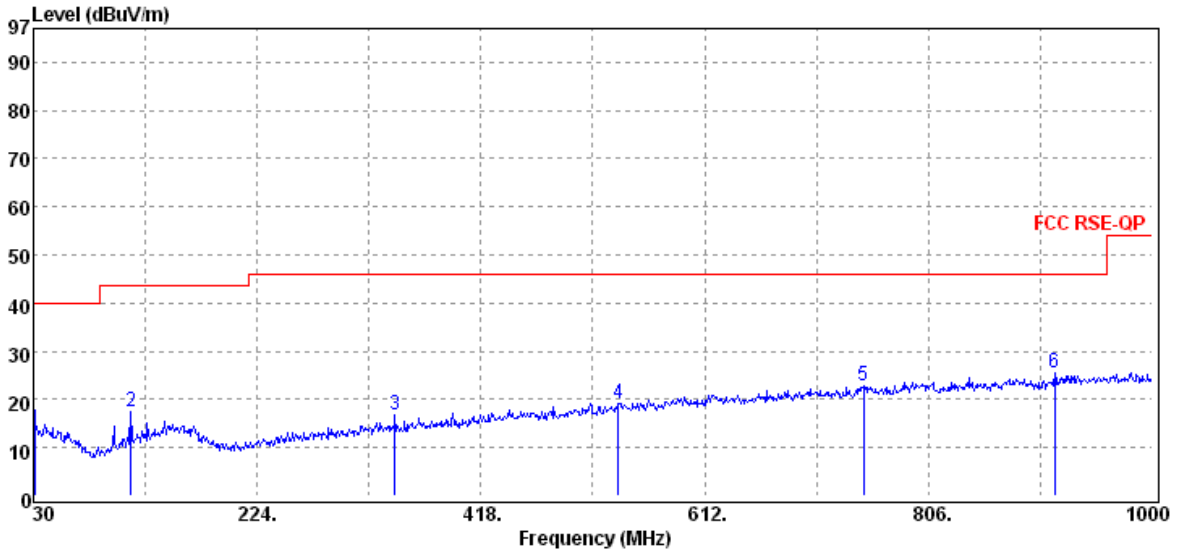
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**802.11n\_40M\_5250-5350MHz**

Operation Band :802.11n 40M  
Fundamental Frequency :5270 MHz  
Operation Mode :TX LOW  
EUT Pol. :E2 Plan

Test Date :2012-11-28  
Temp./Humi. :22.7deg\_C/57RH  
Engineer :Marcus  
Measurement Antenna Pol. :Ver. / Hor.



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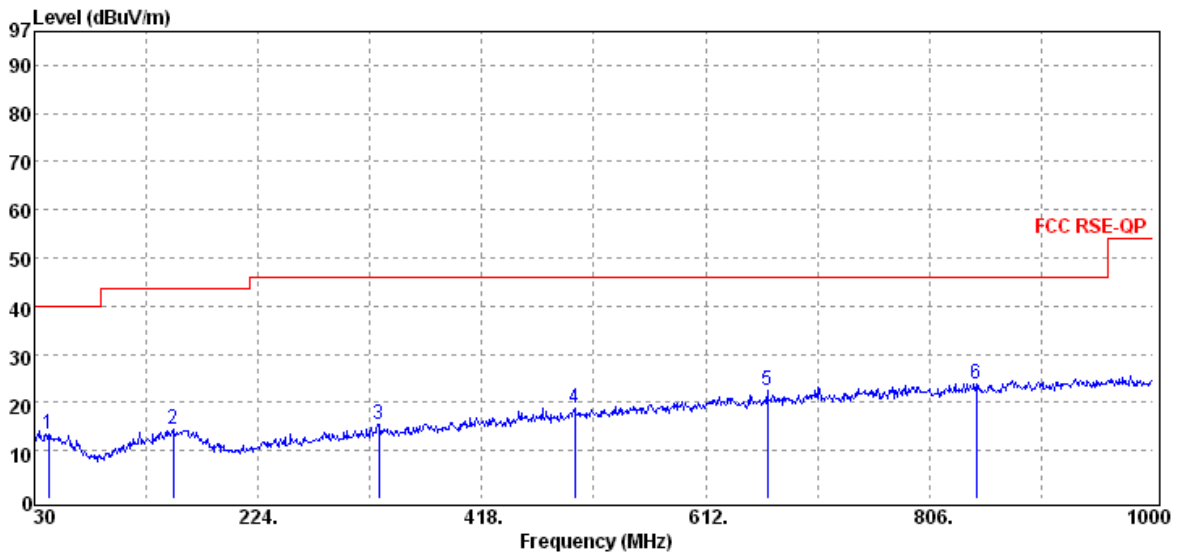
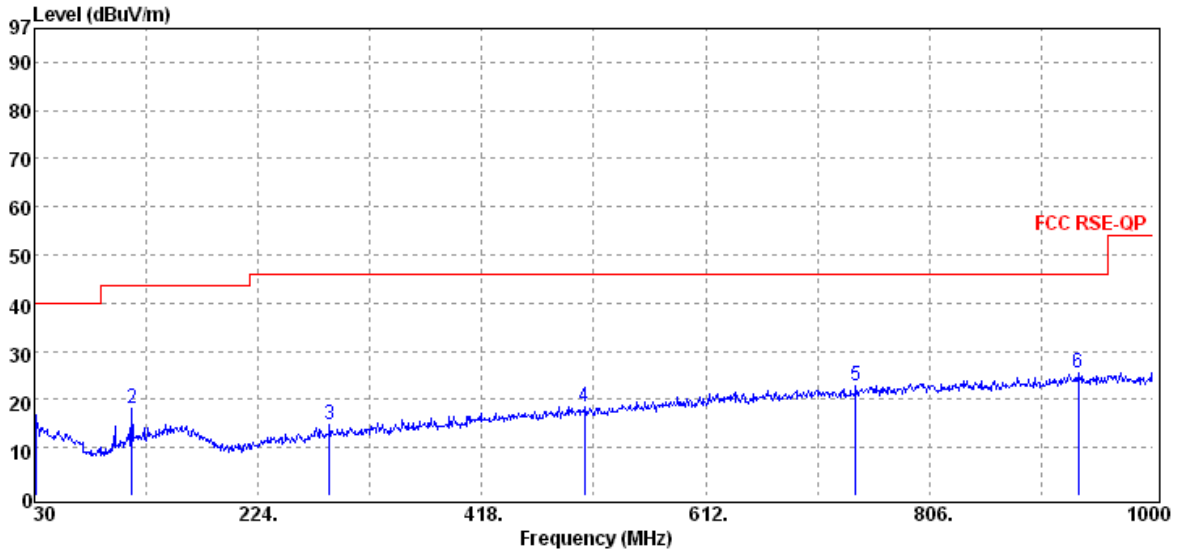
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Operation Band	:802.11n 40M	Test Date	:2012-11-28
Fundamental Frequency	:5310 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.



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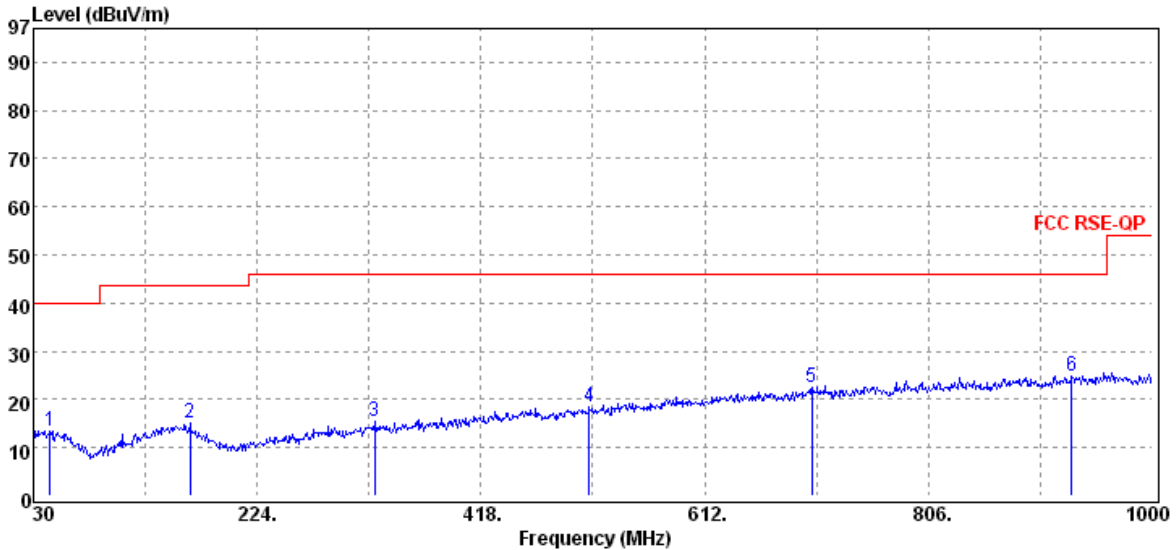
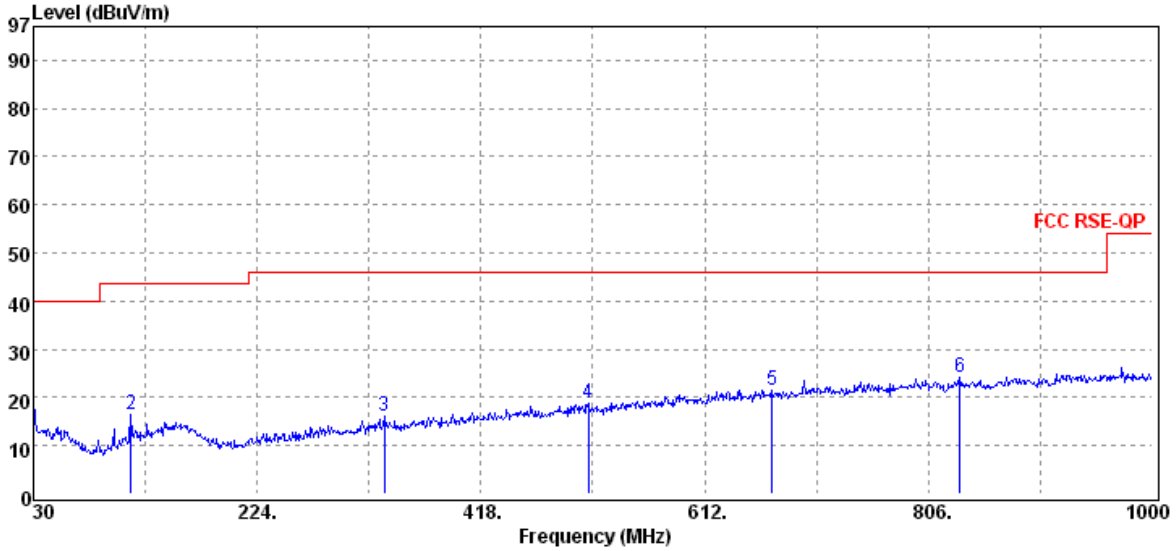
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**802.11n\_40M\_5470-5725MHz**

Operation Band :802.11n 40M  
Fundamental Frequency :5510 MHz  
Operation Mode :TX LOW  
EUT Pol. :E2 Plan

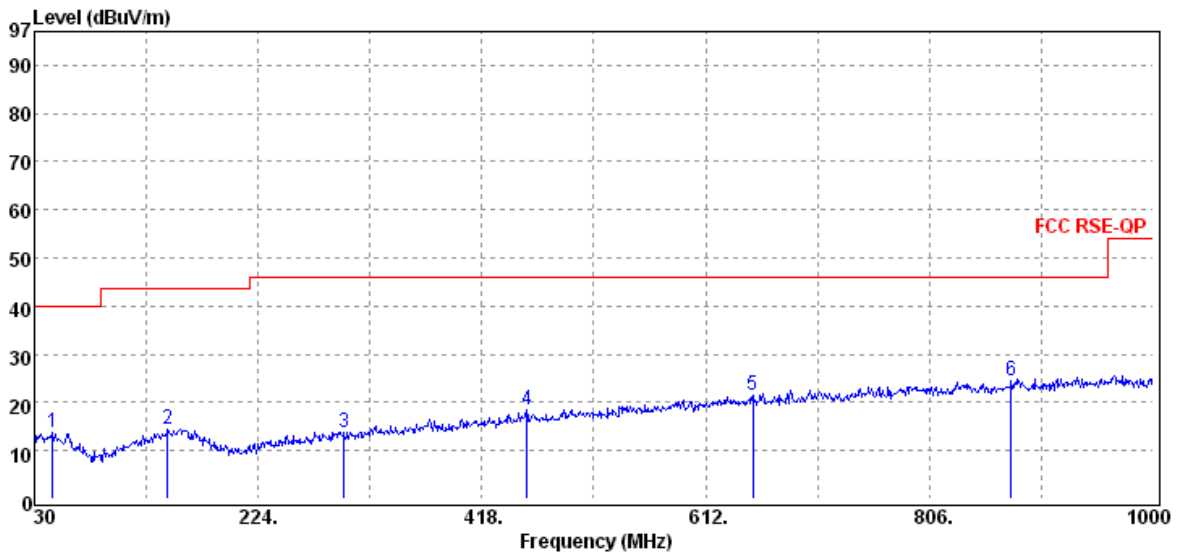
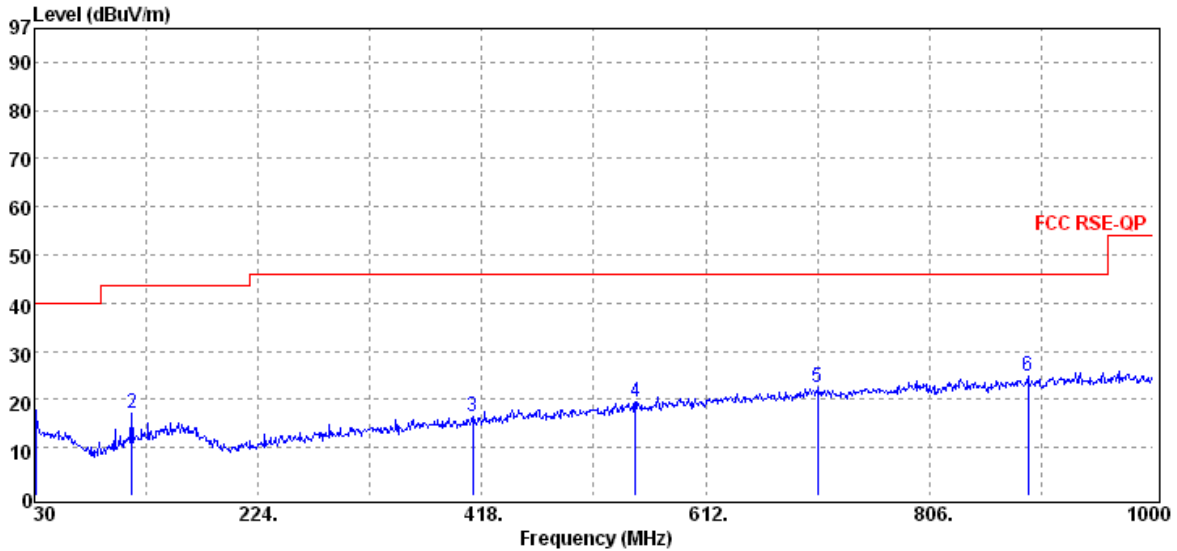
Test Date :2012-11-28  
Temp./Humi. :22.7deg\_C/57RH  
Engineer :Marcus  
Measurement Antenna Pol. :Ver. / Hor.



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Operation Band	:802.11n 40M	Test Date	:2012-11-28
Fundamental Frequency	:5590 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.



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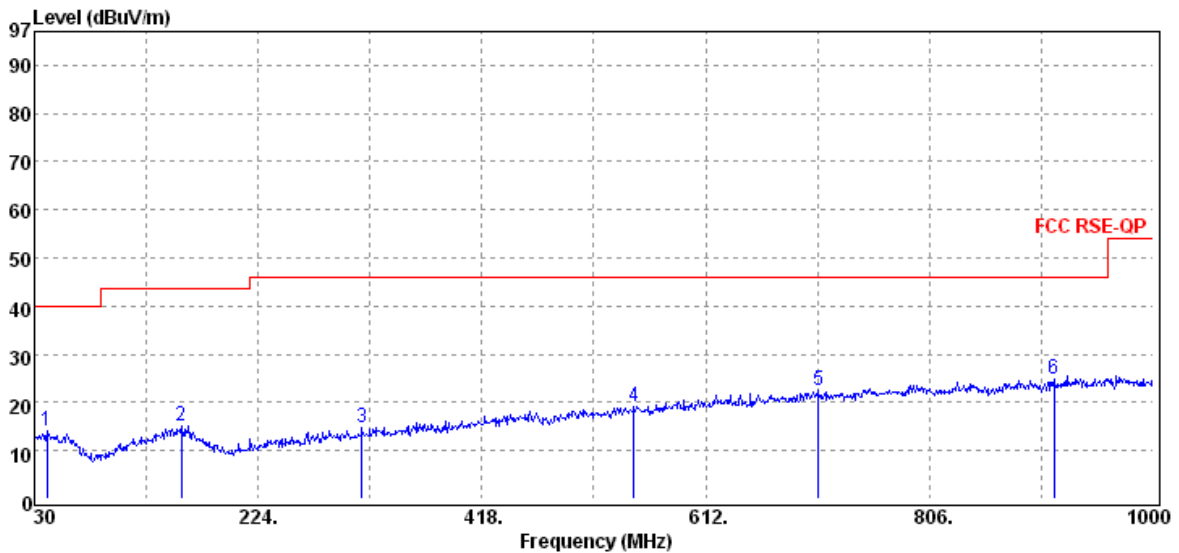
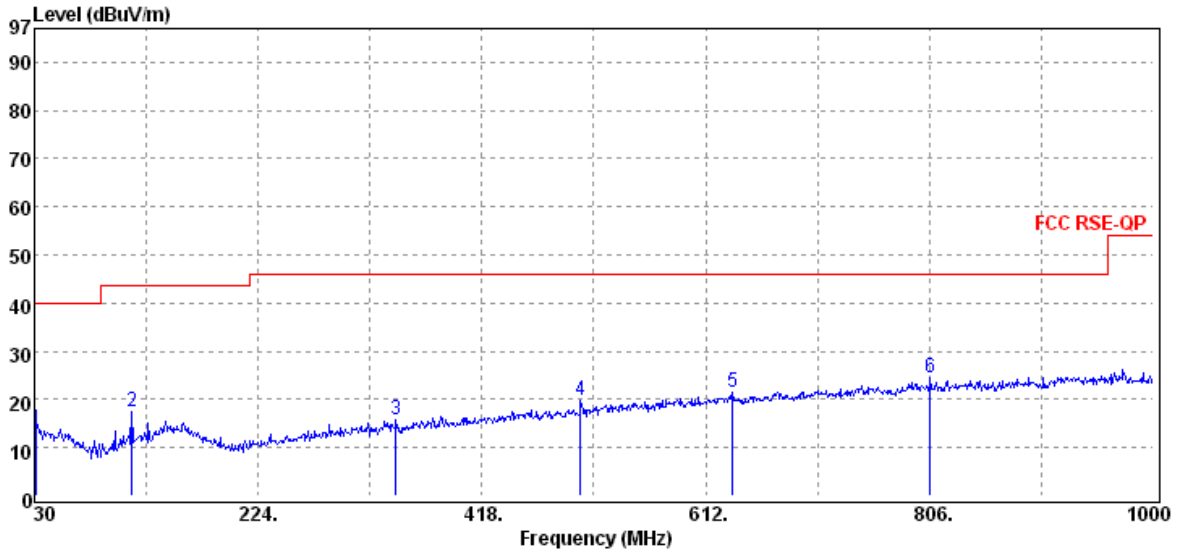
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Operation Band	:802.11n 40M	Test Date	:2012-11-28
Fundamental Frequency	:5670 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.



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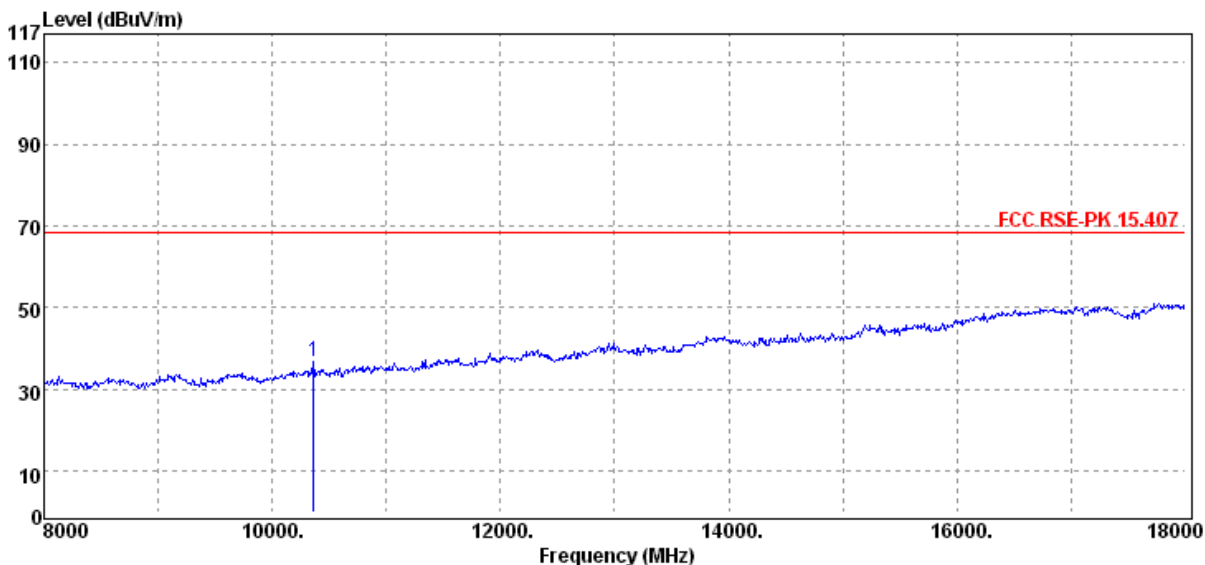
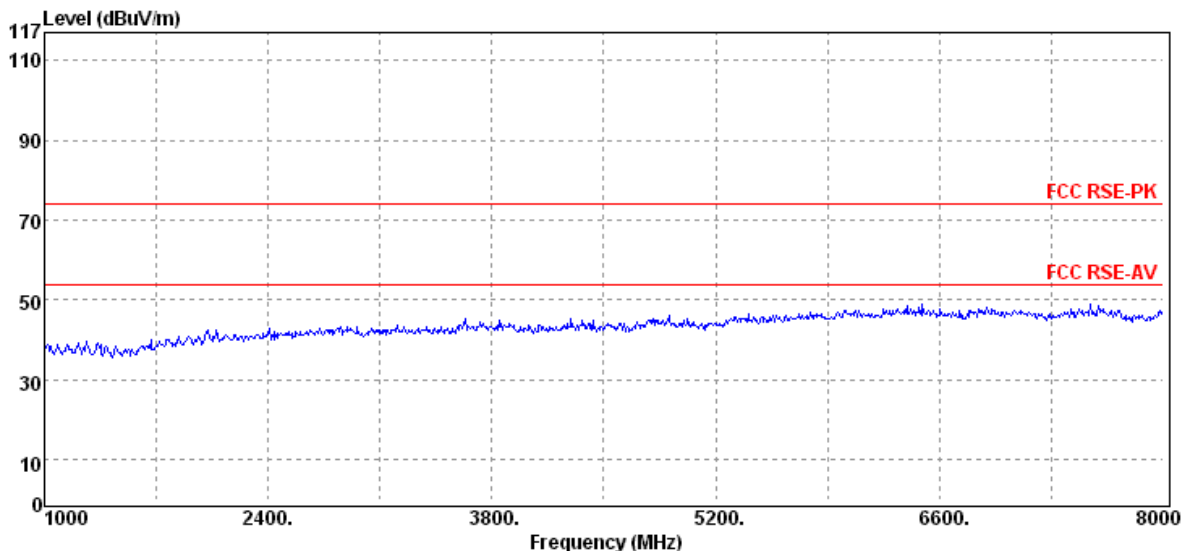
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### Radiated Spurious Emission Measurement photos Result (below 1GHz)

#### 802.11a 5150-5250MHz

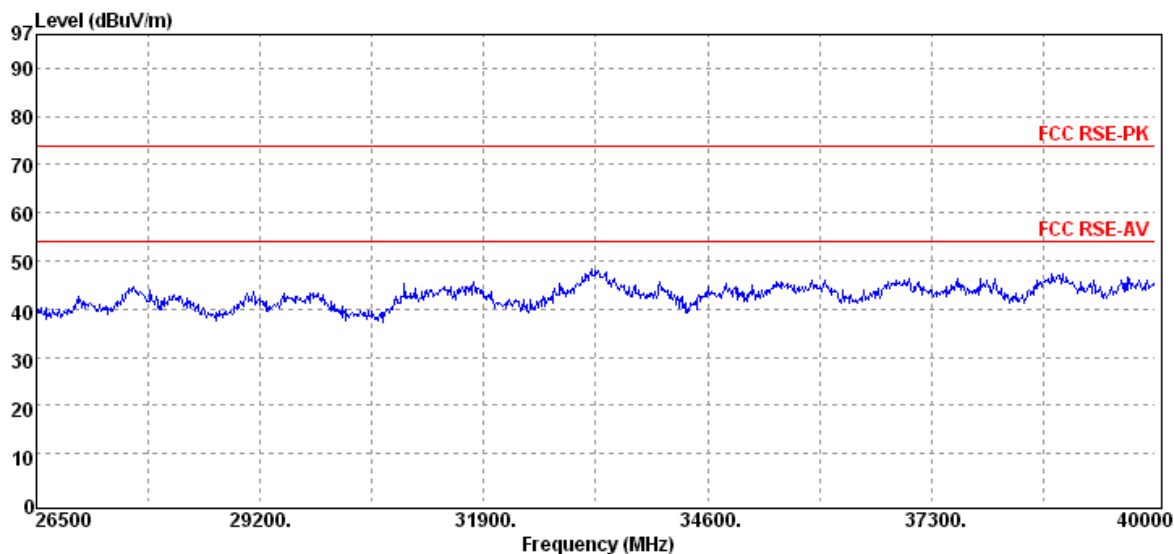
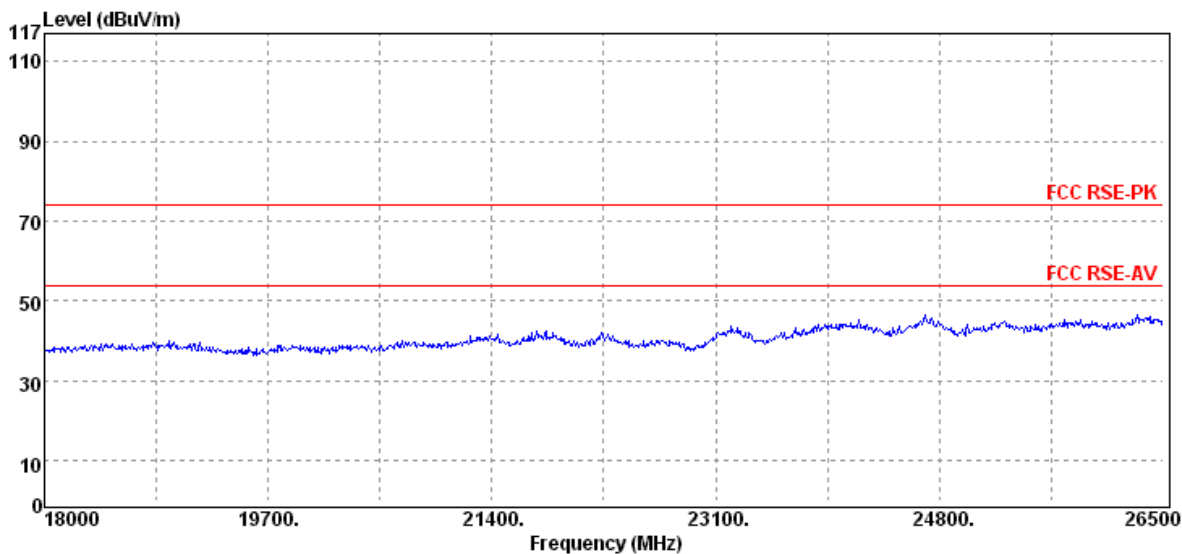
Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5180 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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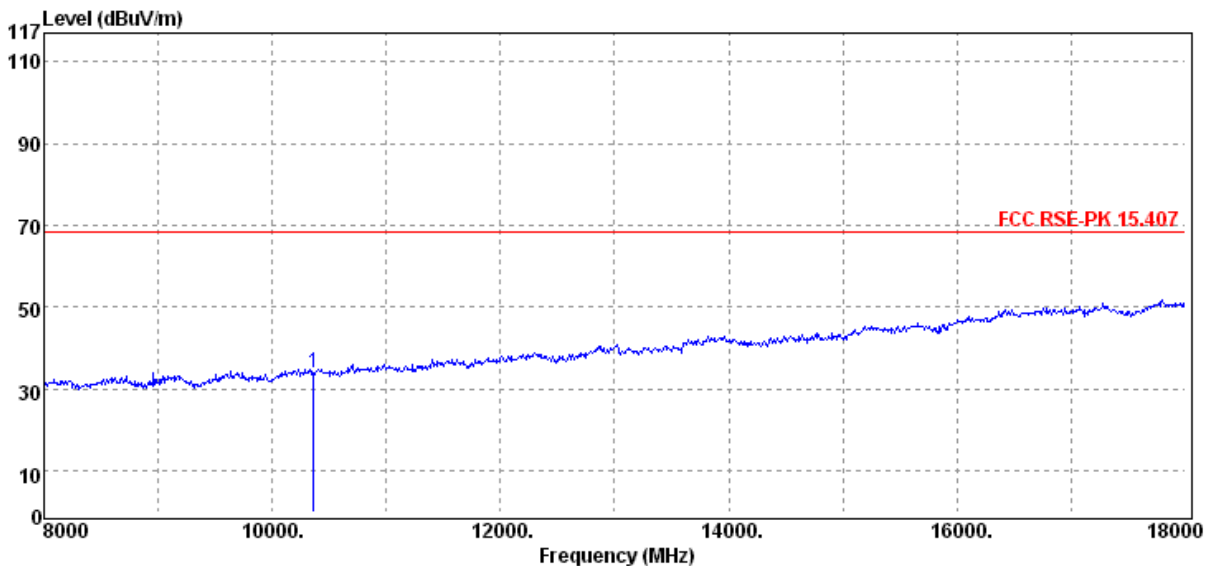
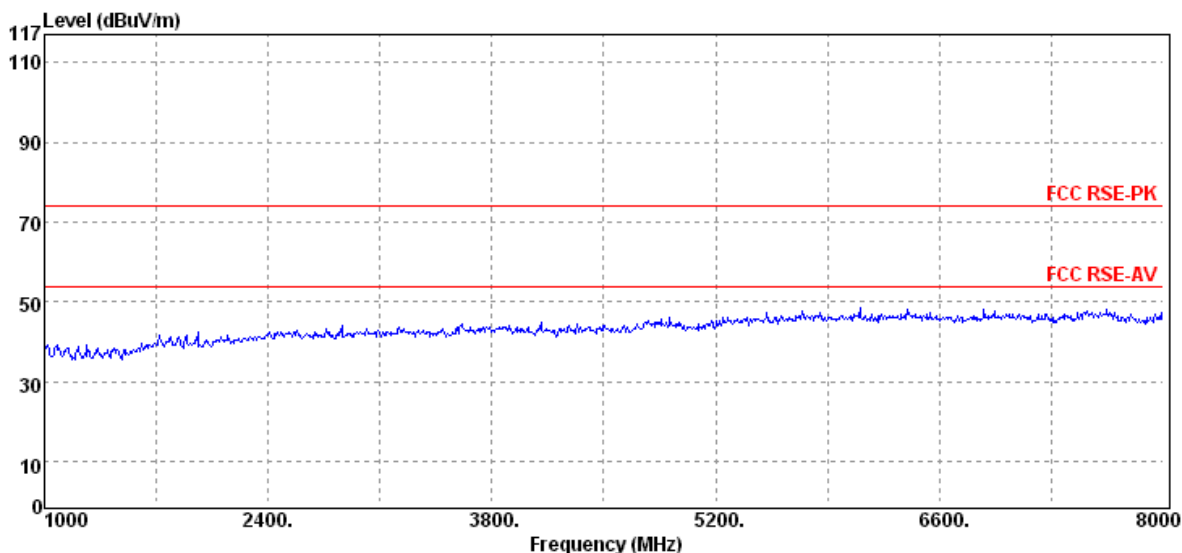
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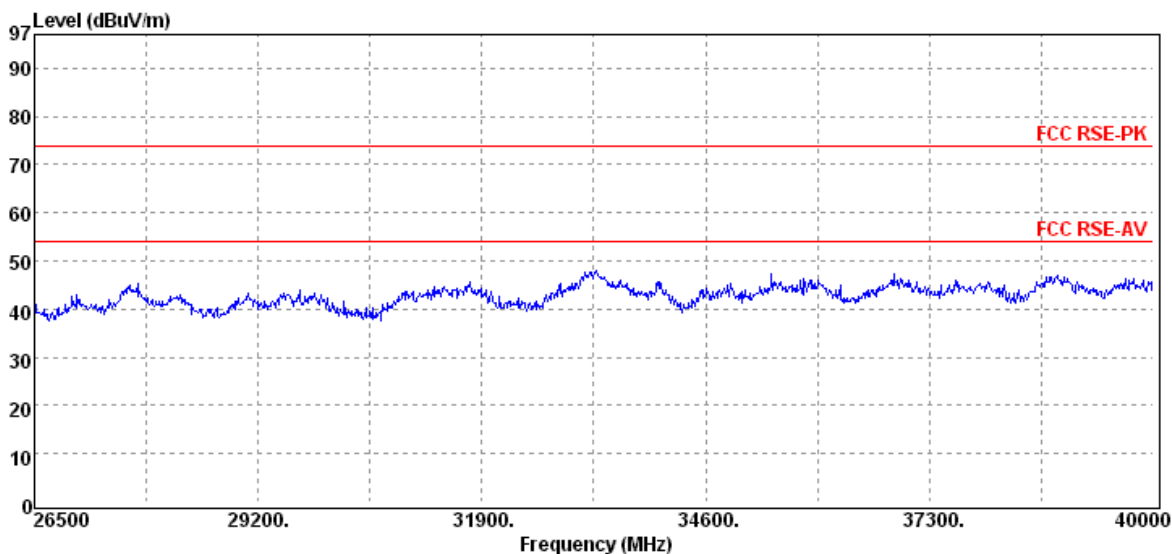
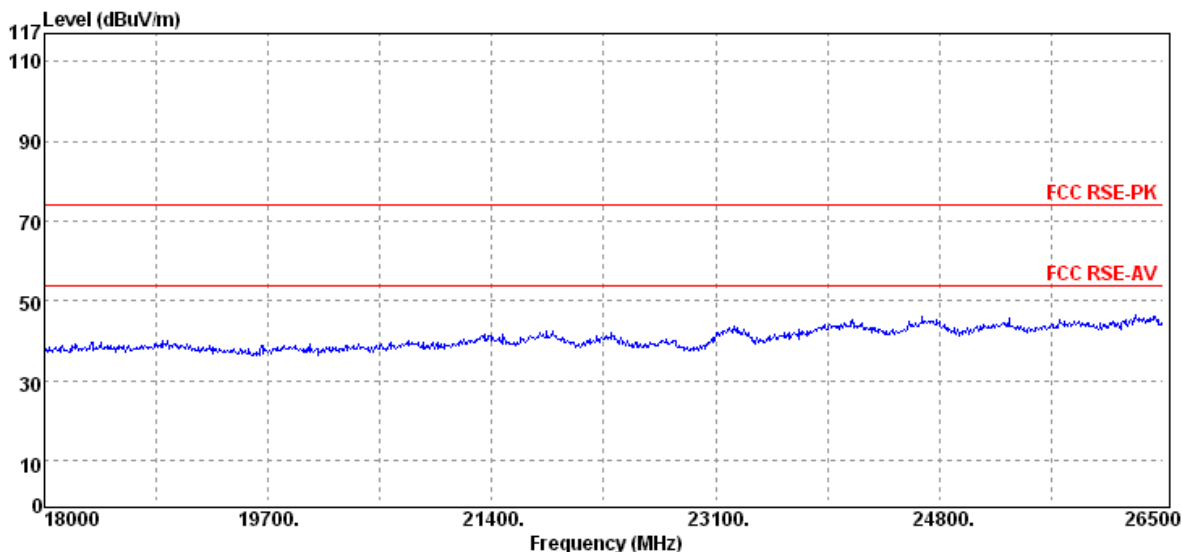
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Fundamental Frequency	:5180 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



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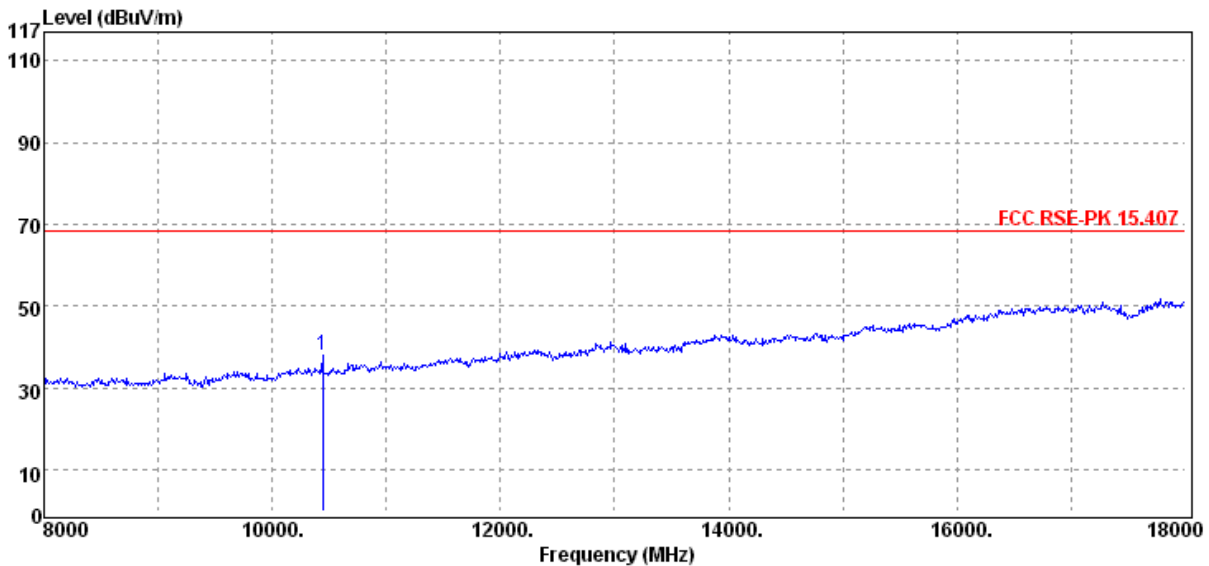
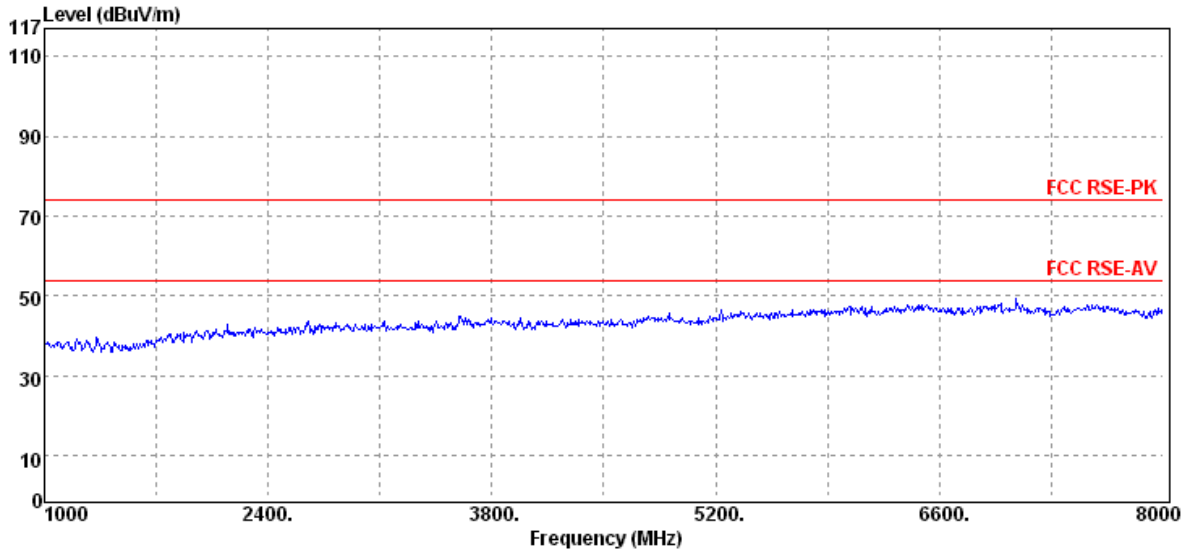
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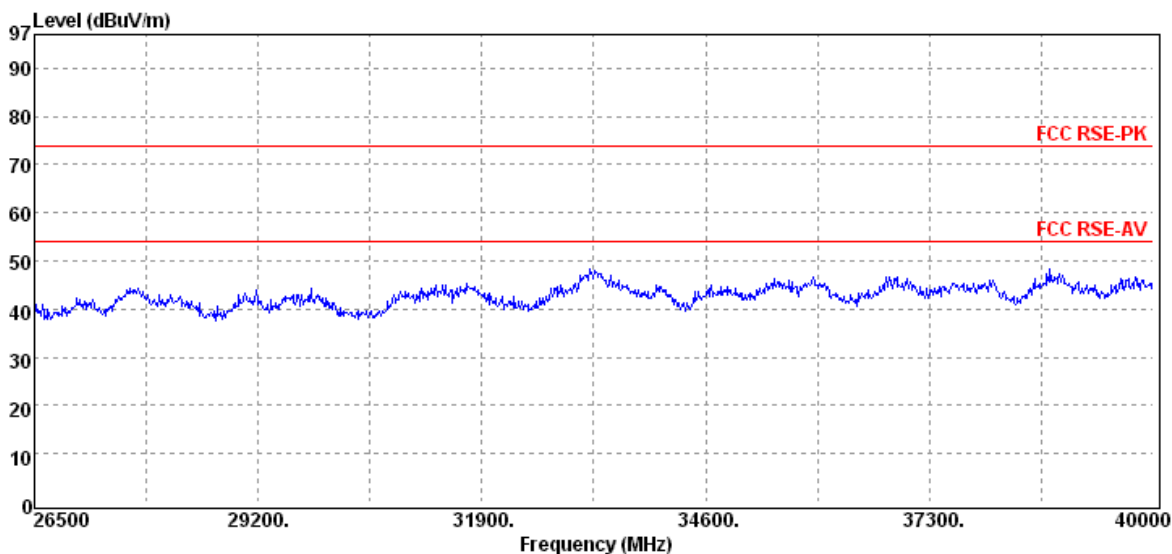
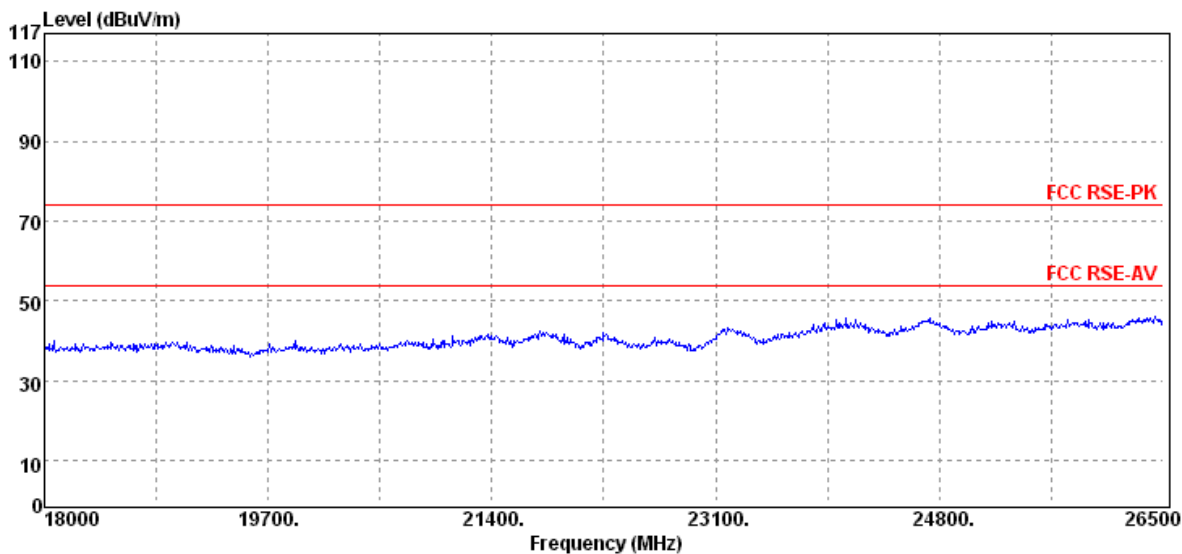


Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5220 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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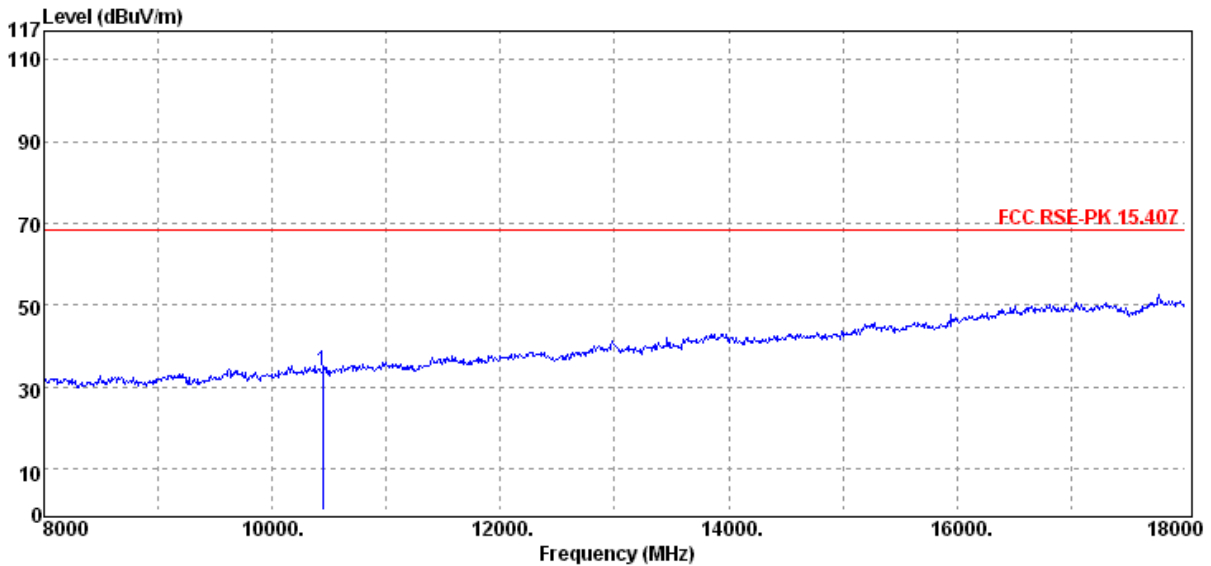
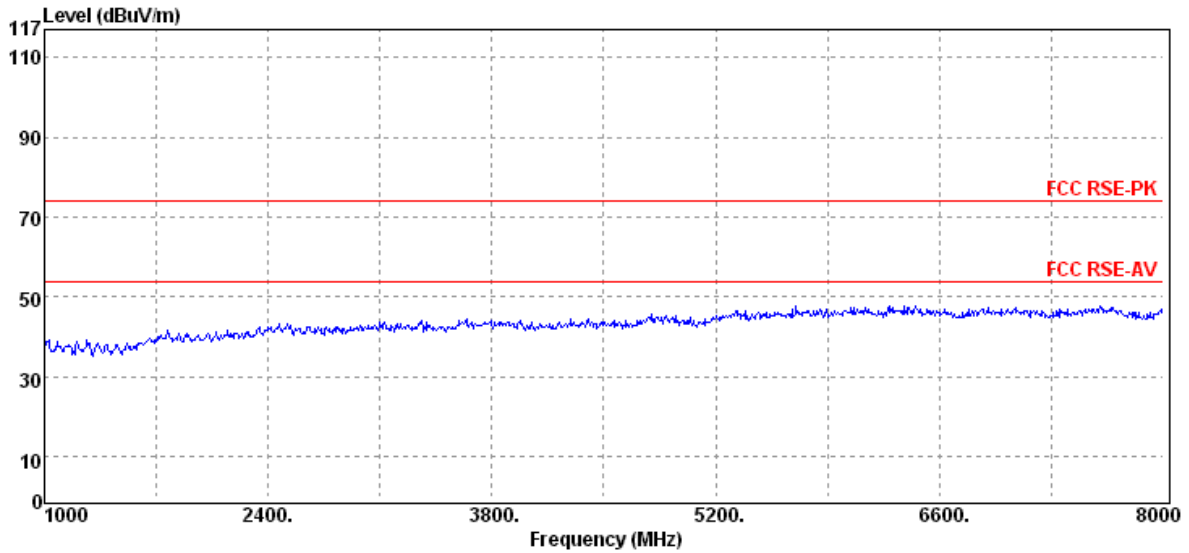
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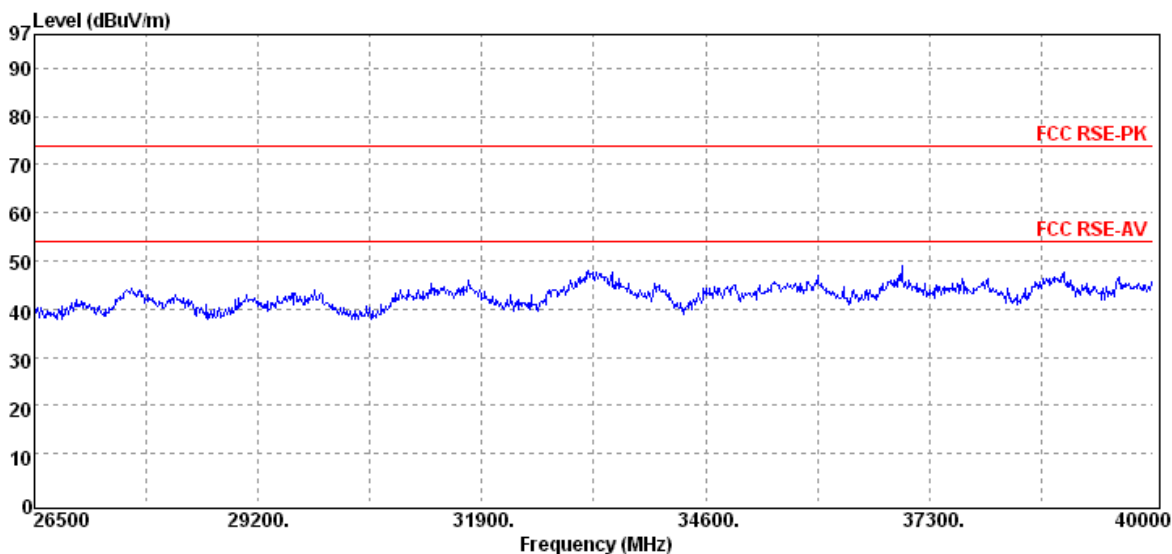
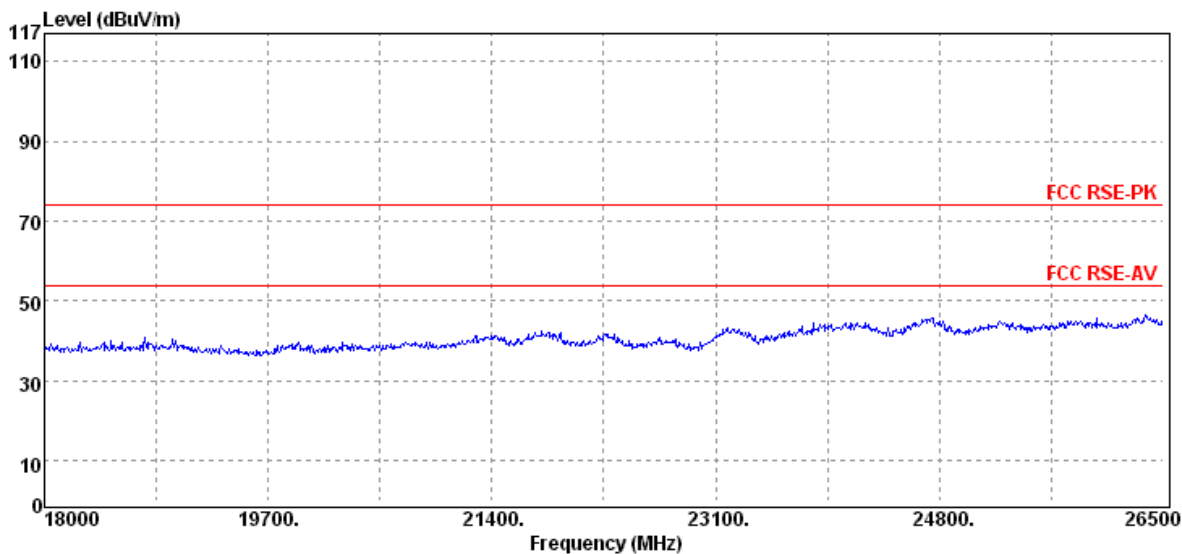
Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5220 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



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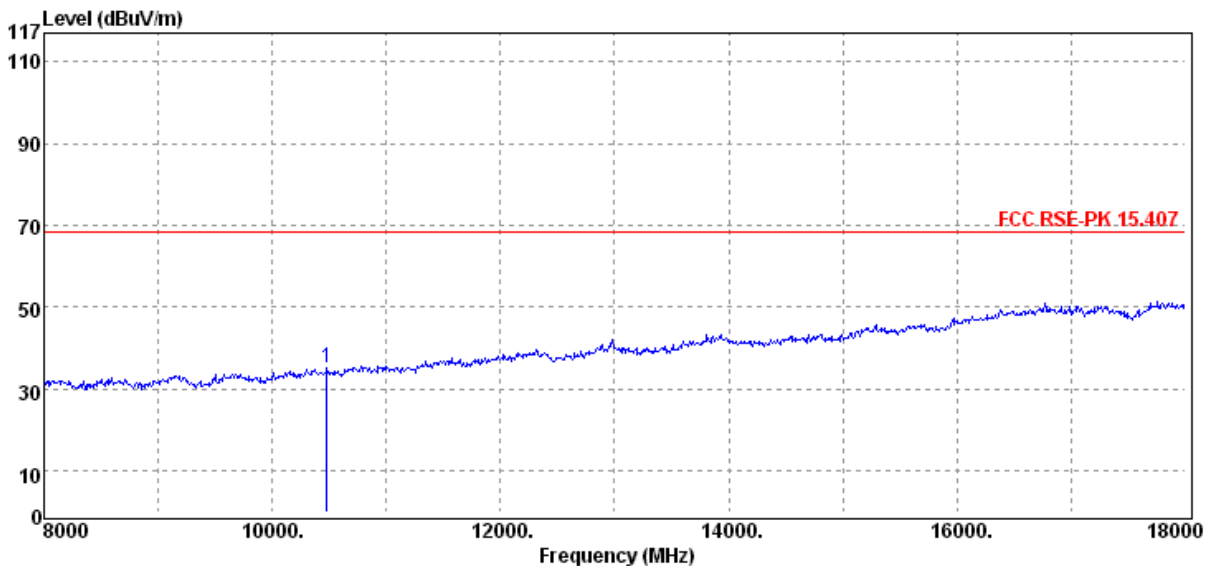
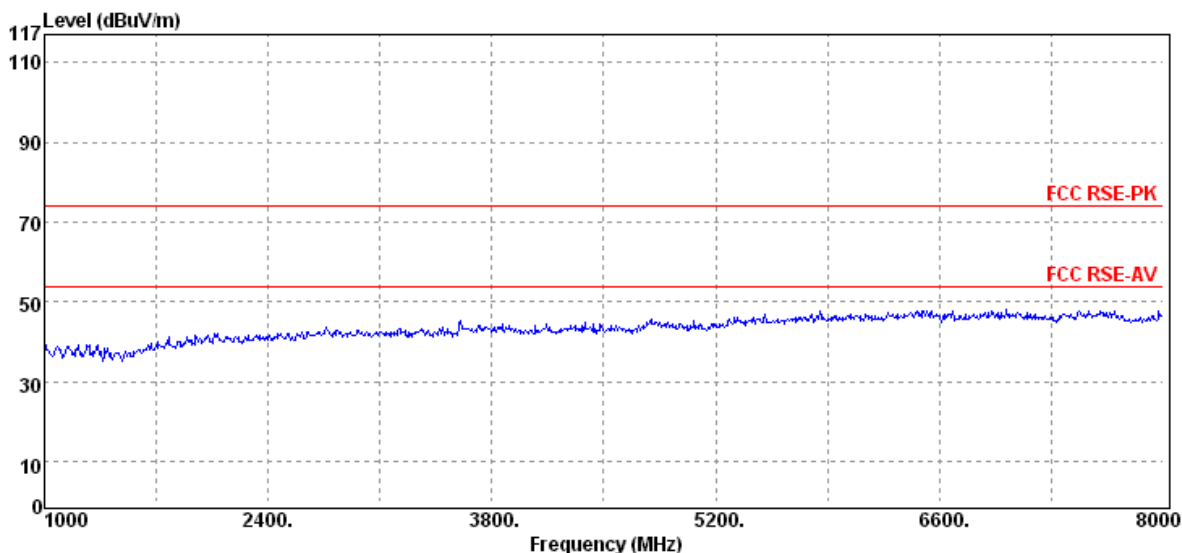
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Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5240 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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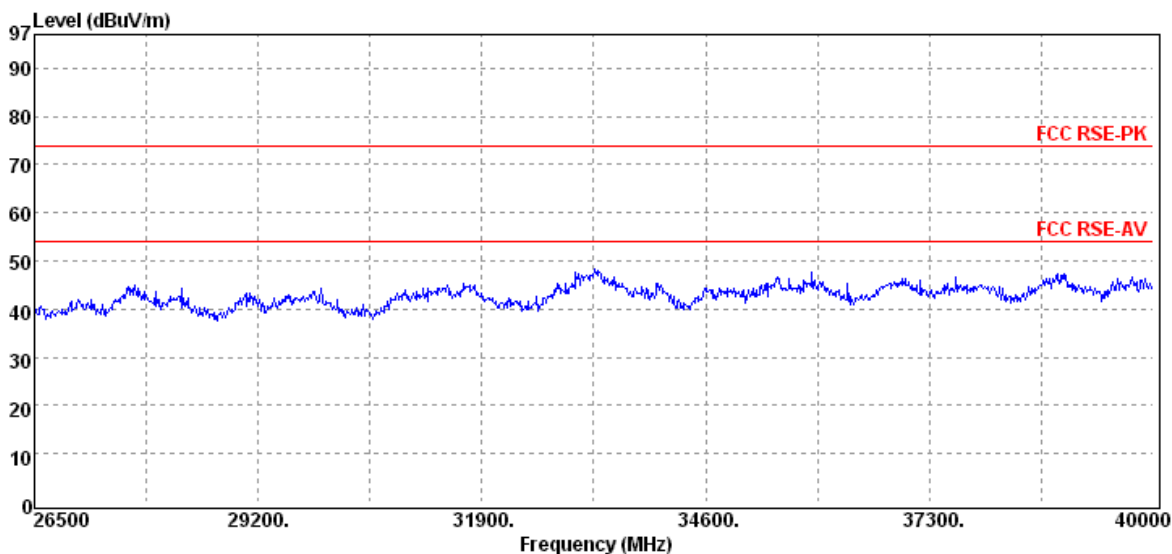
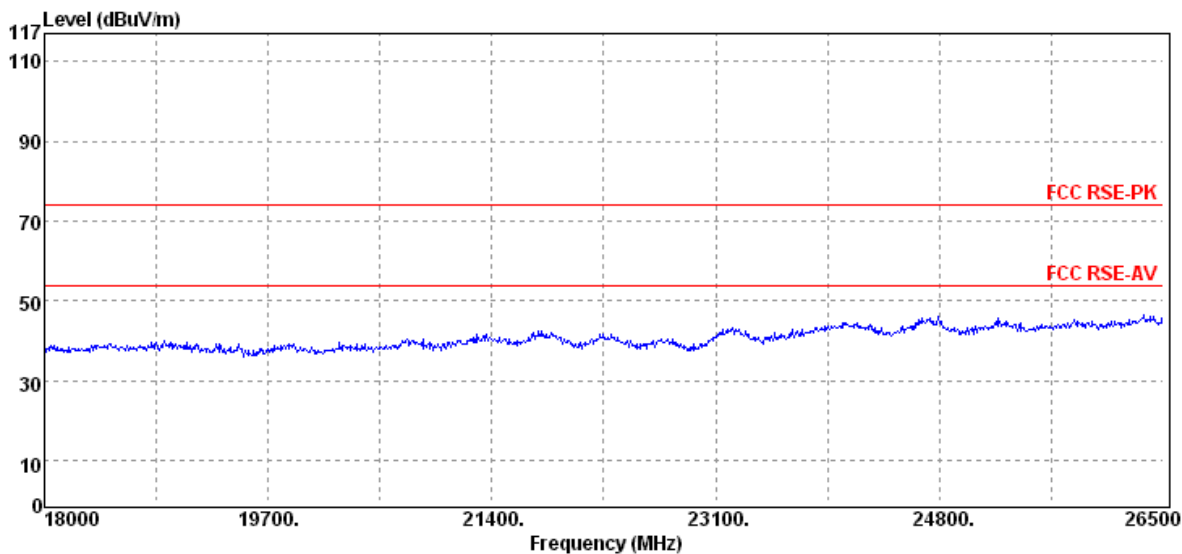
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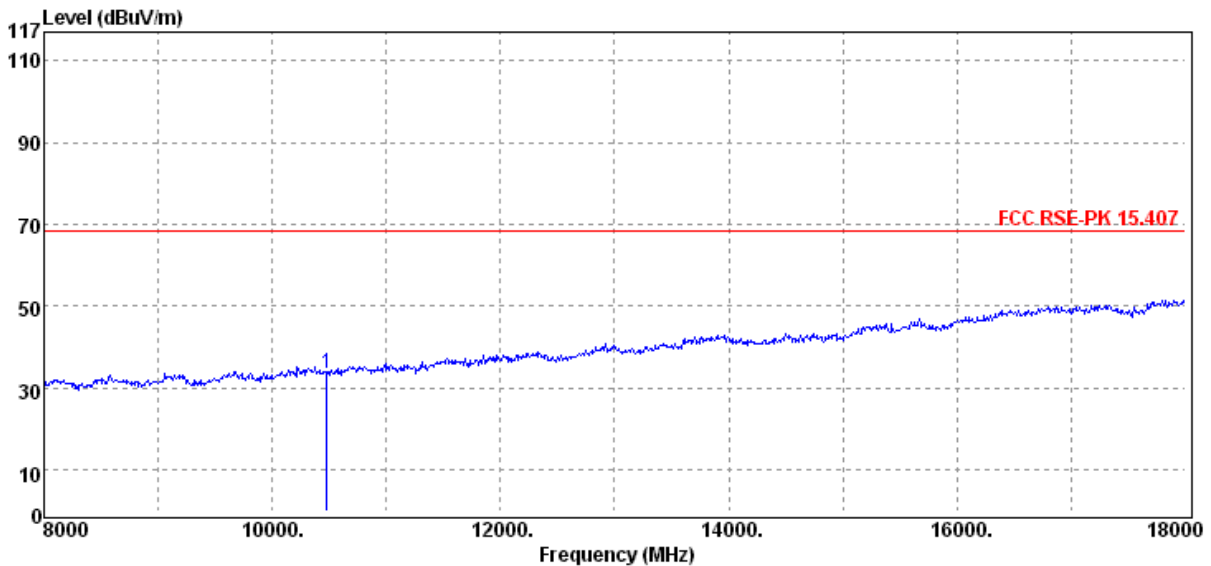
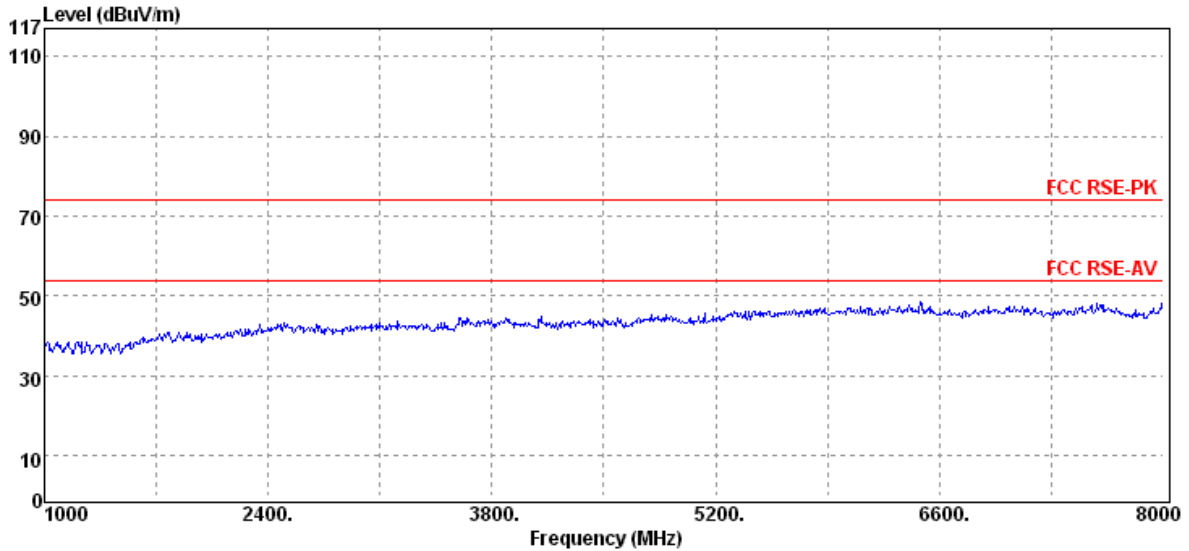
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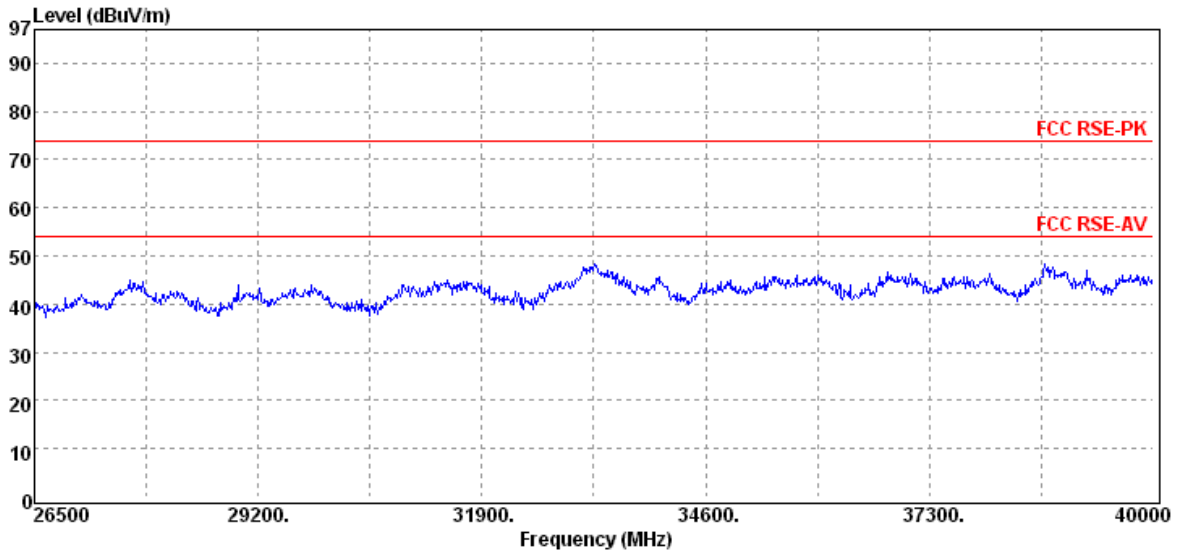
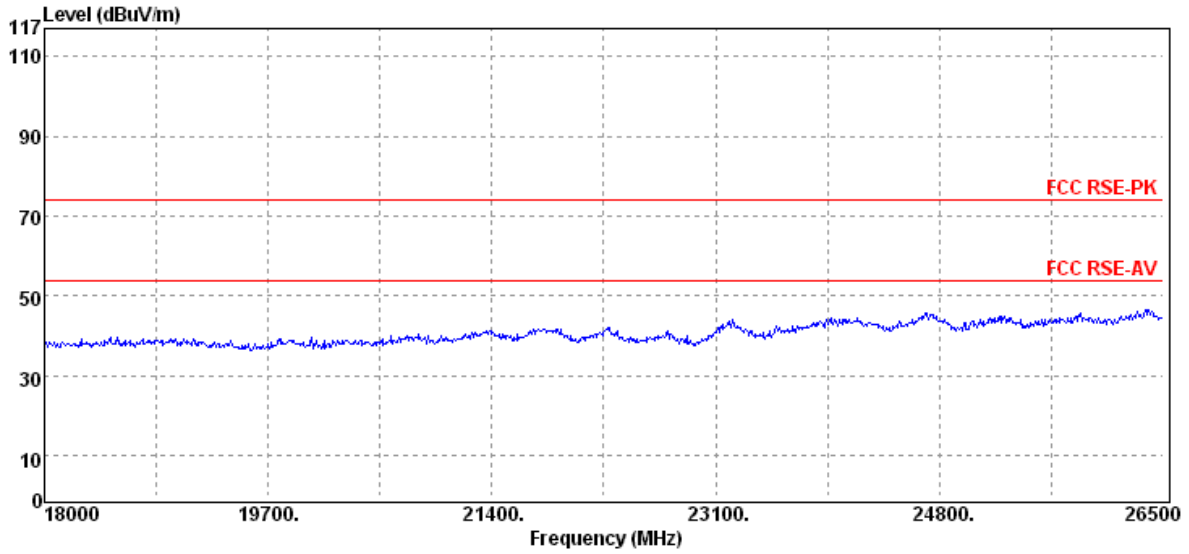
Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5240 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



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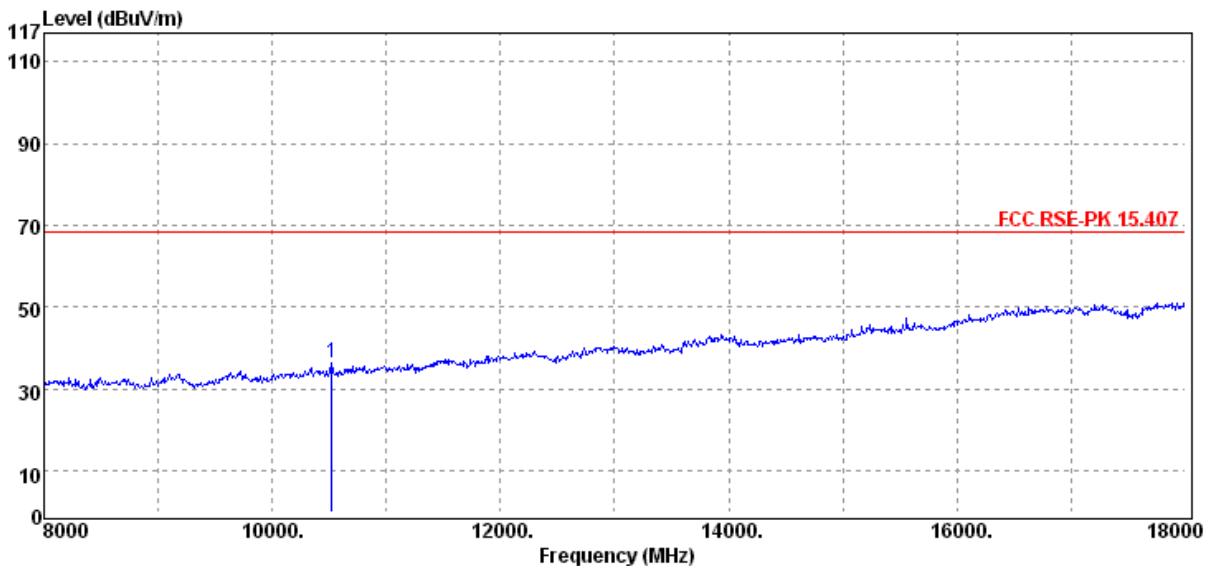
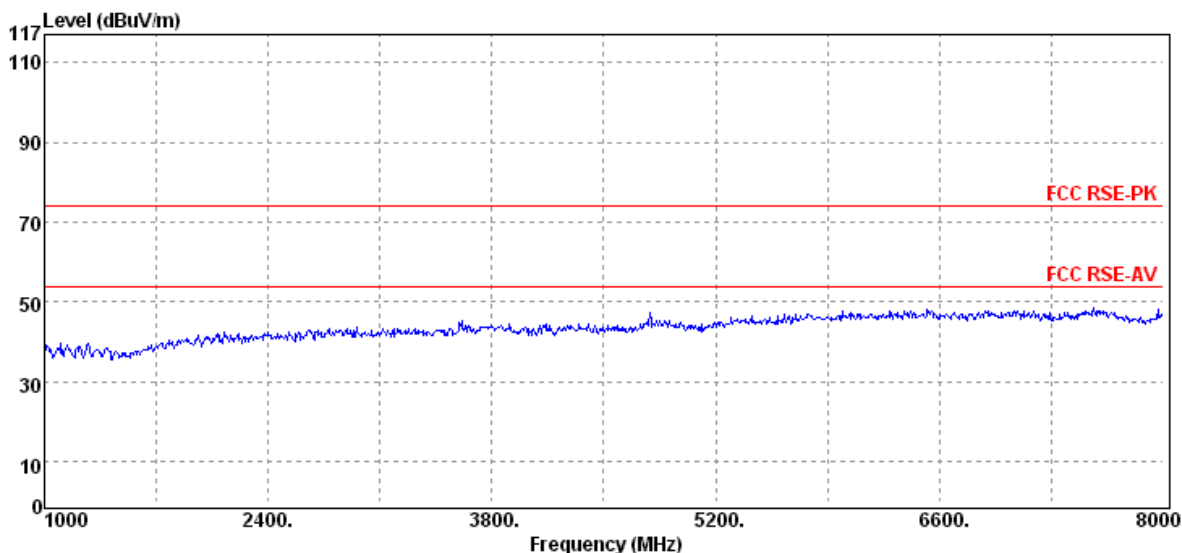
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**802.11a 5250-5350MHz**

Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5260 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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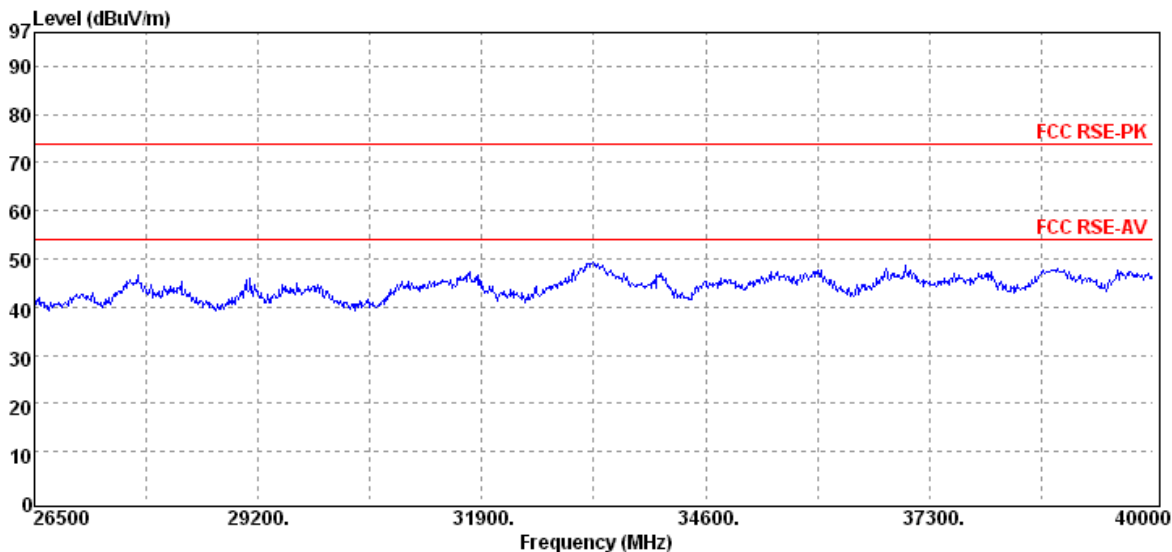
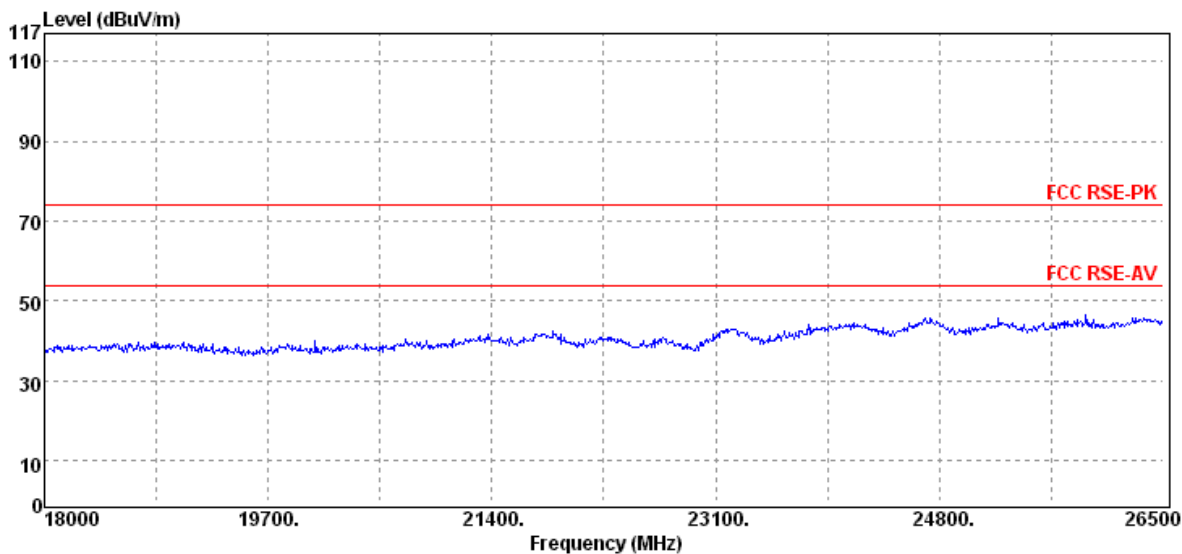
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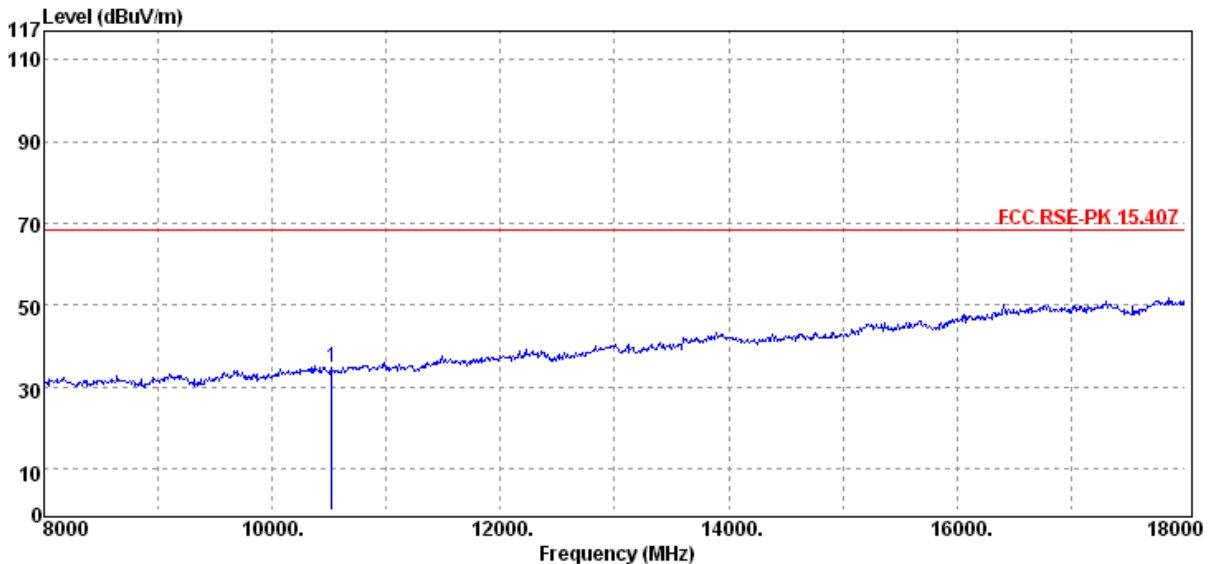
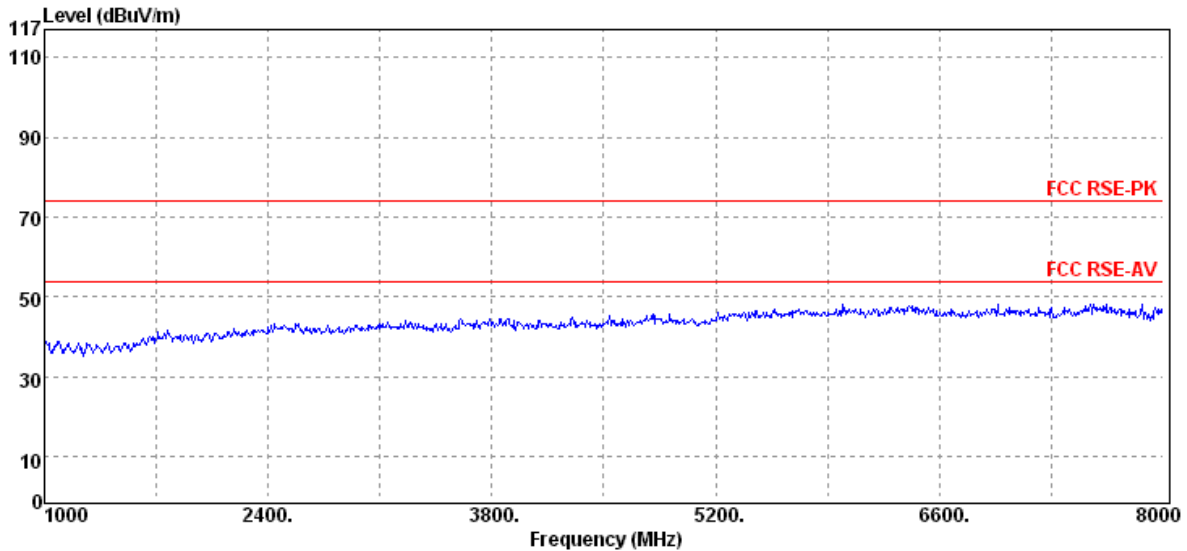
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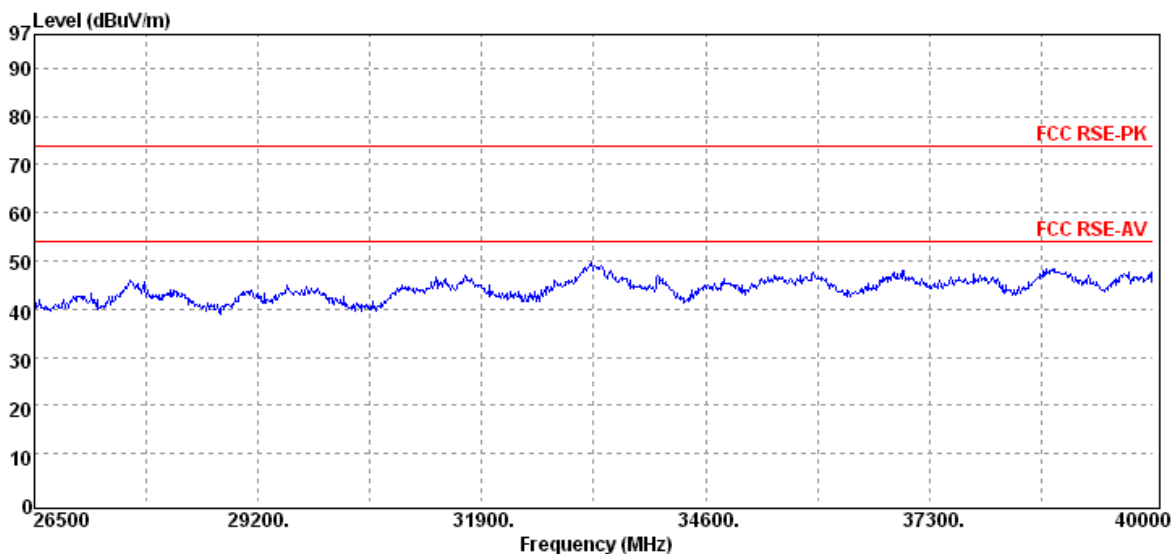
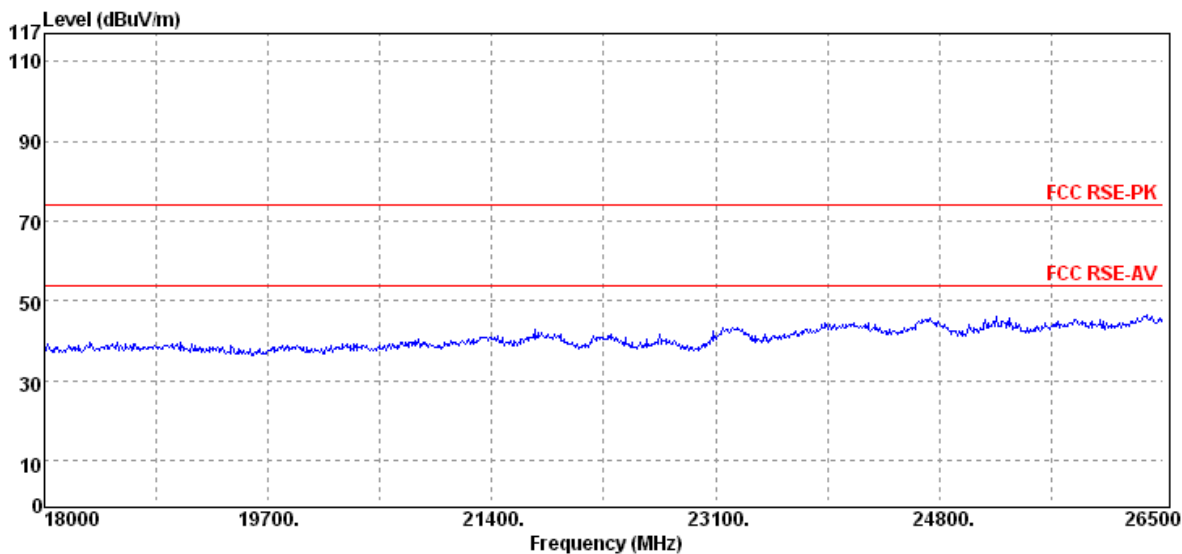
Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5260 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



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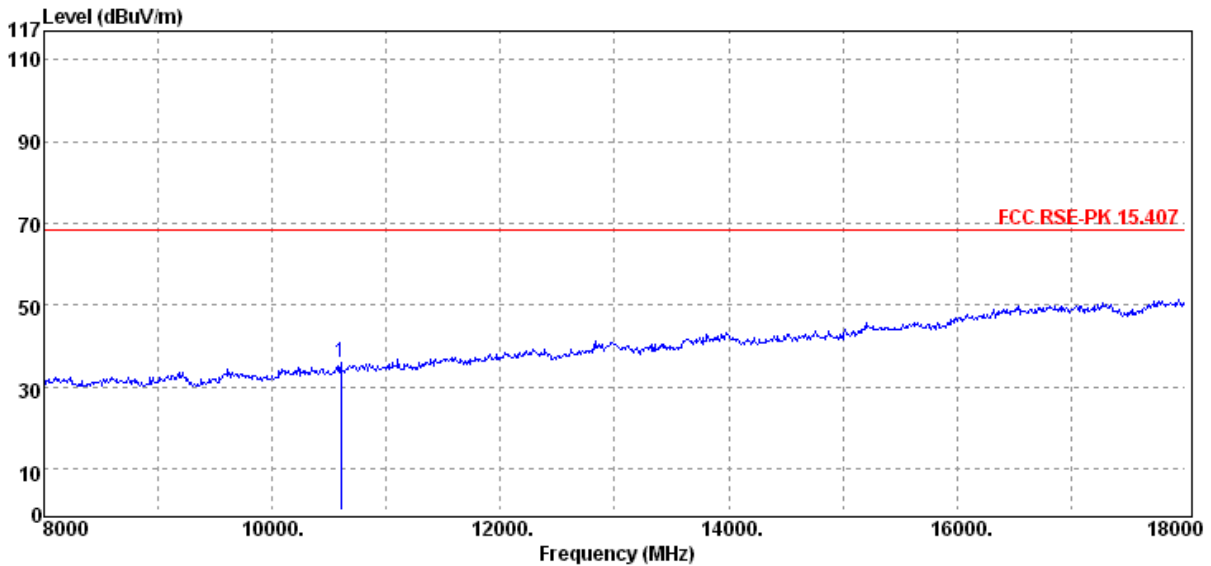
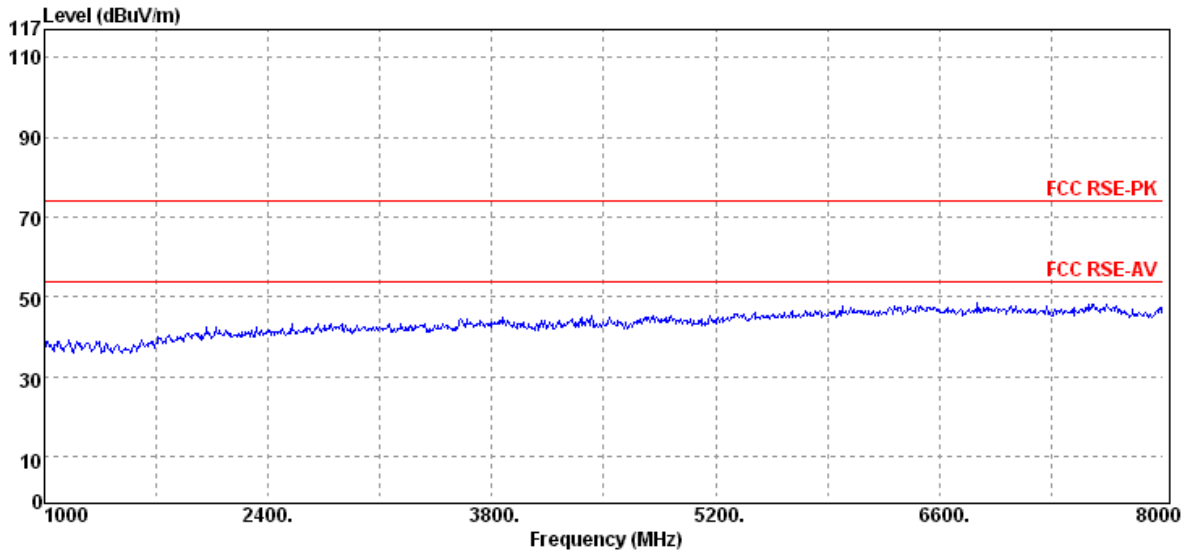
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Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5300 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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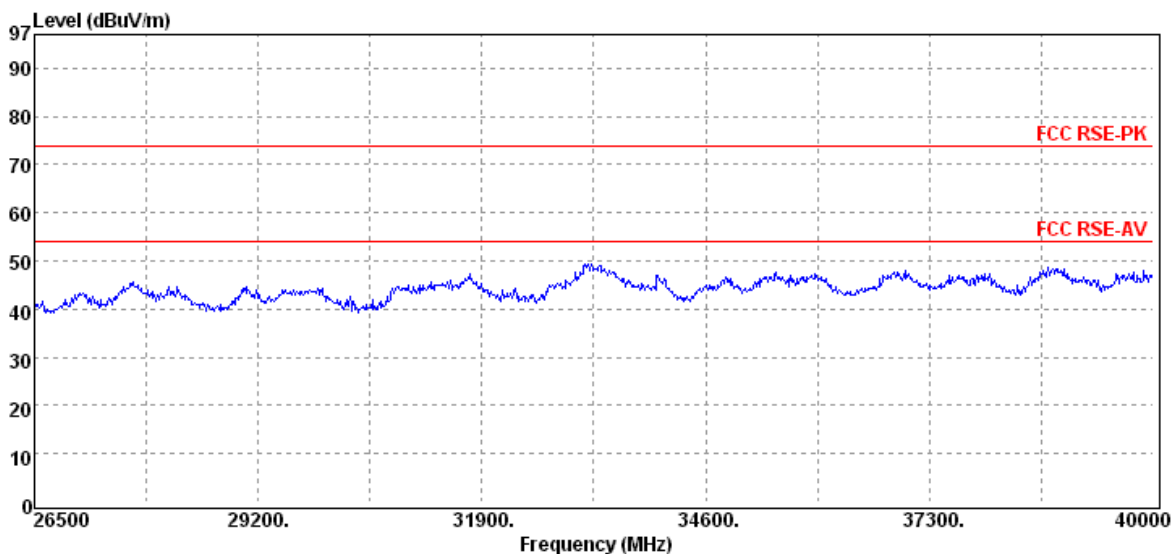
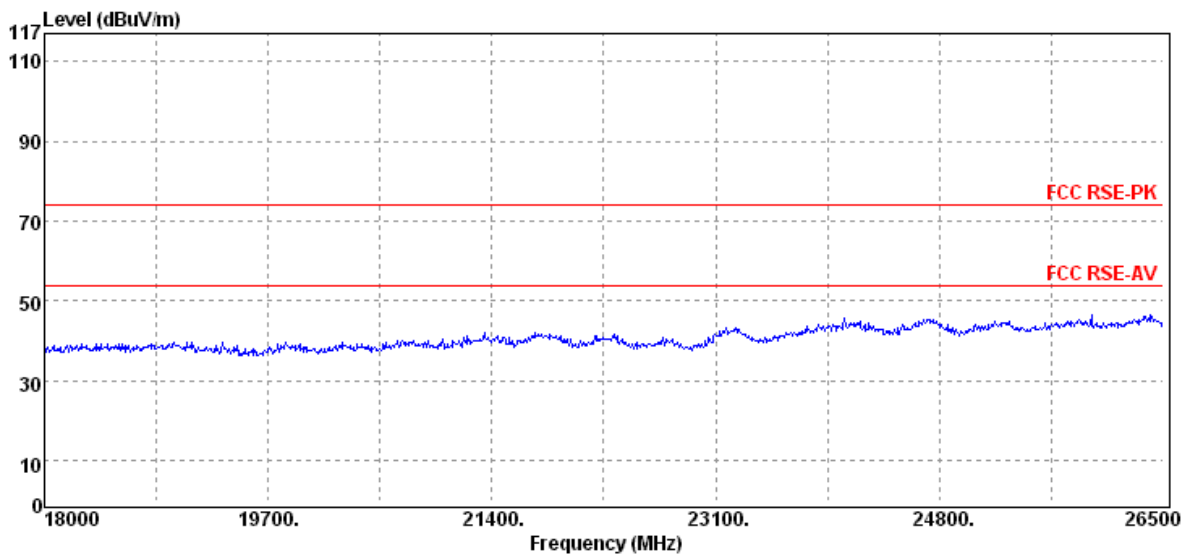
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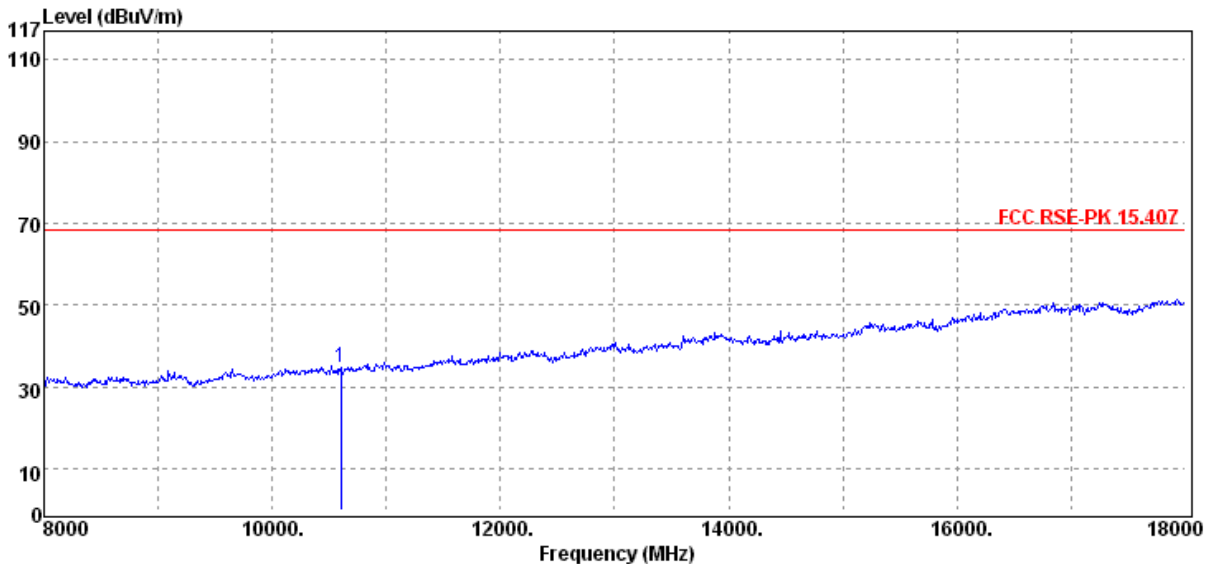
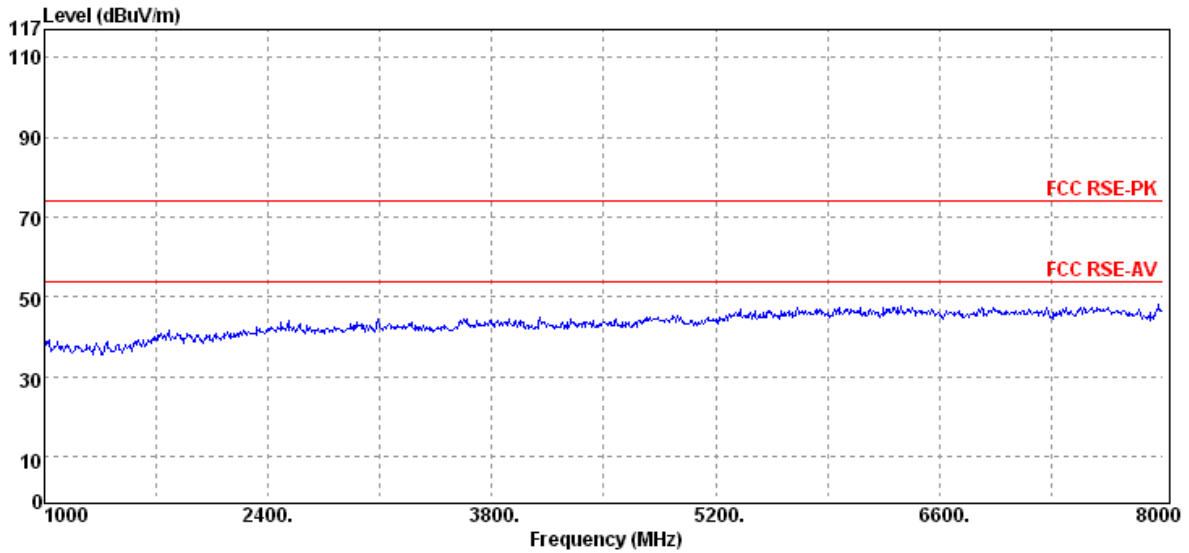
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Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5300 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



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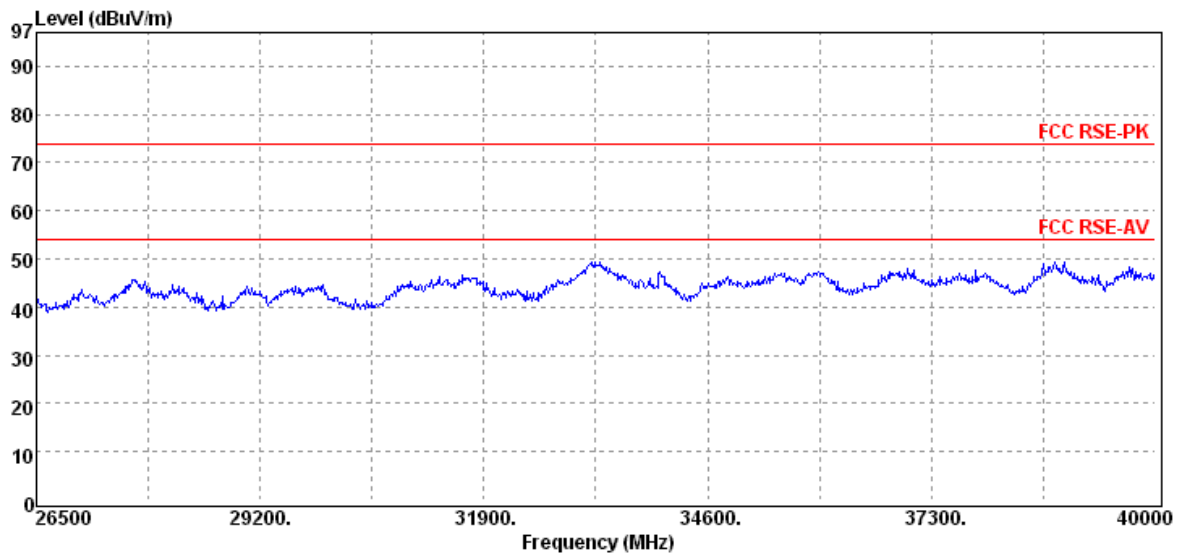
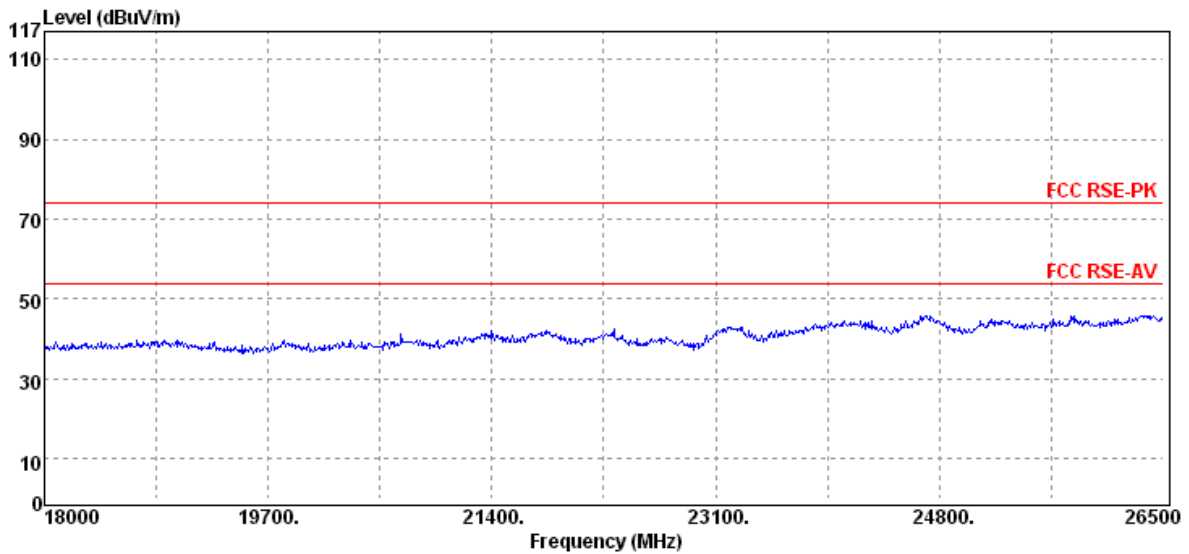
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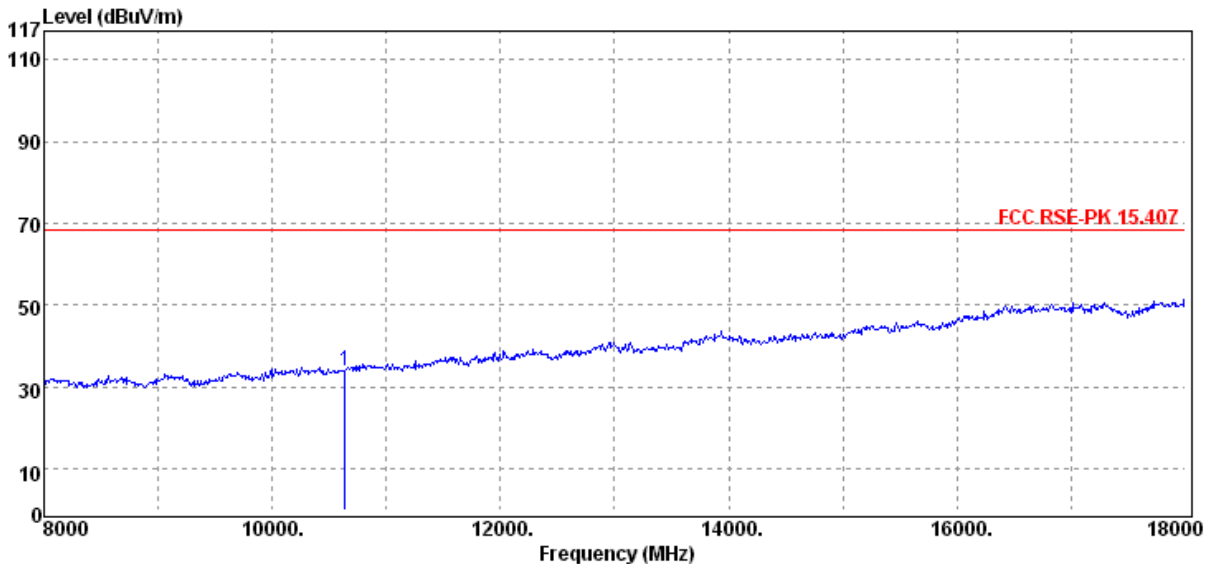
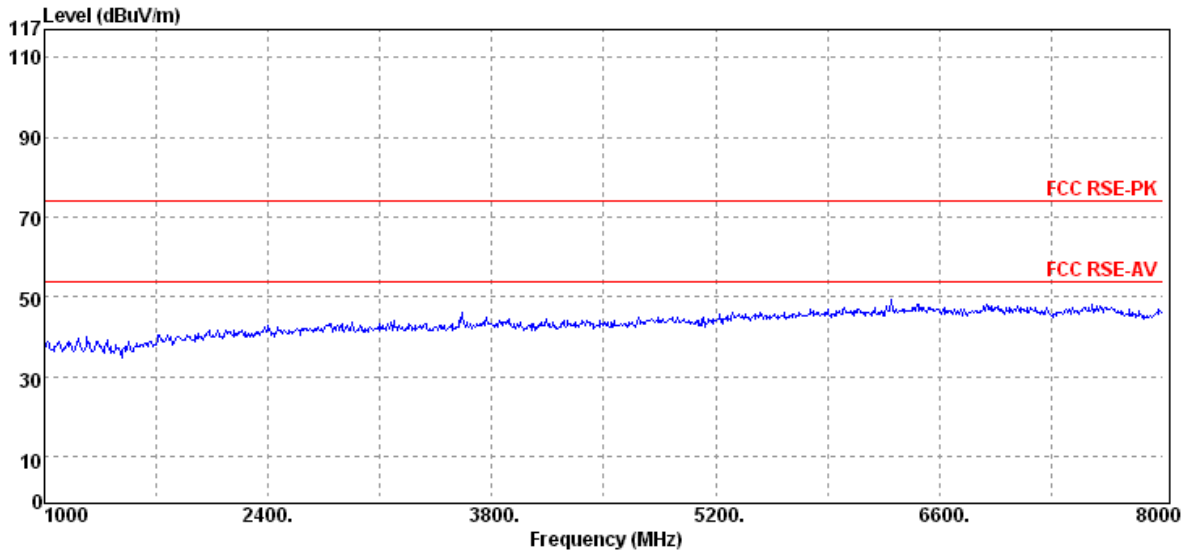


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Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5320 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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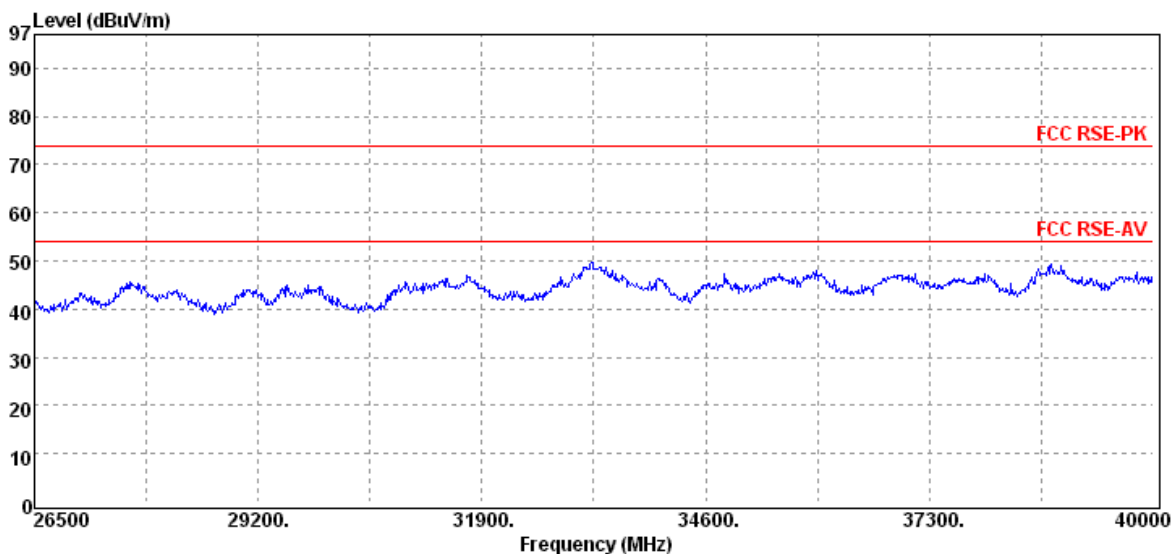
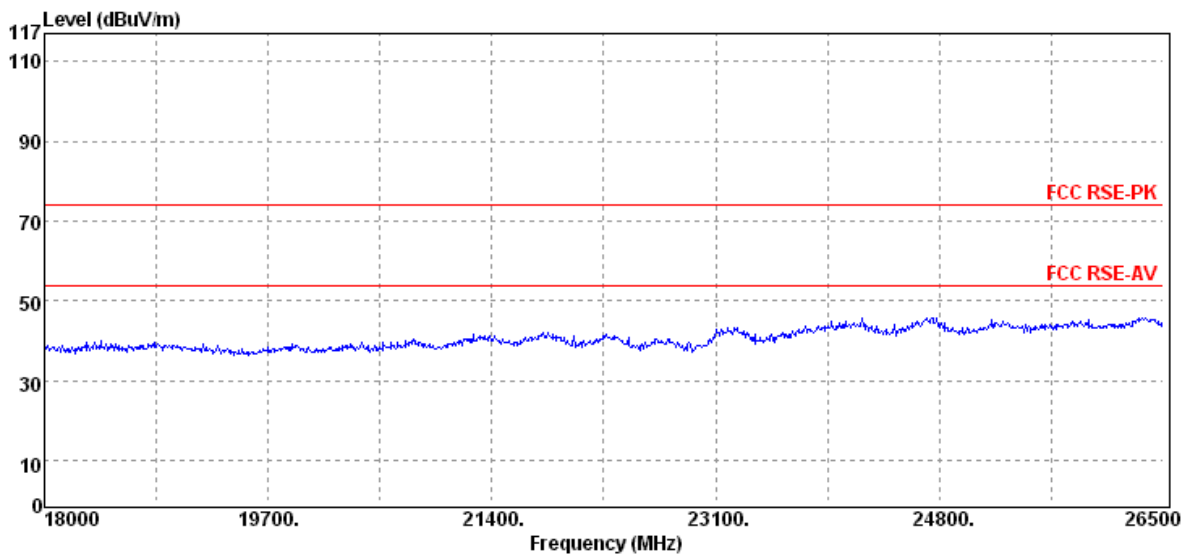
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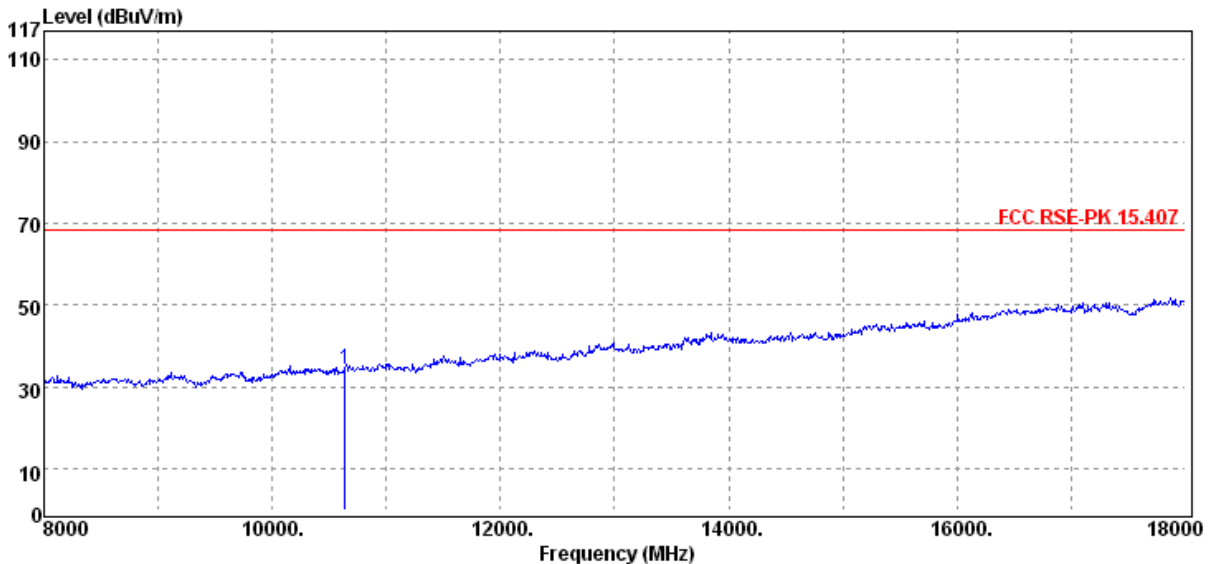
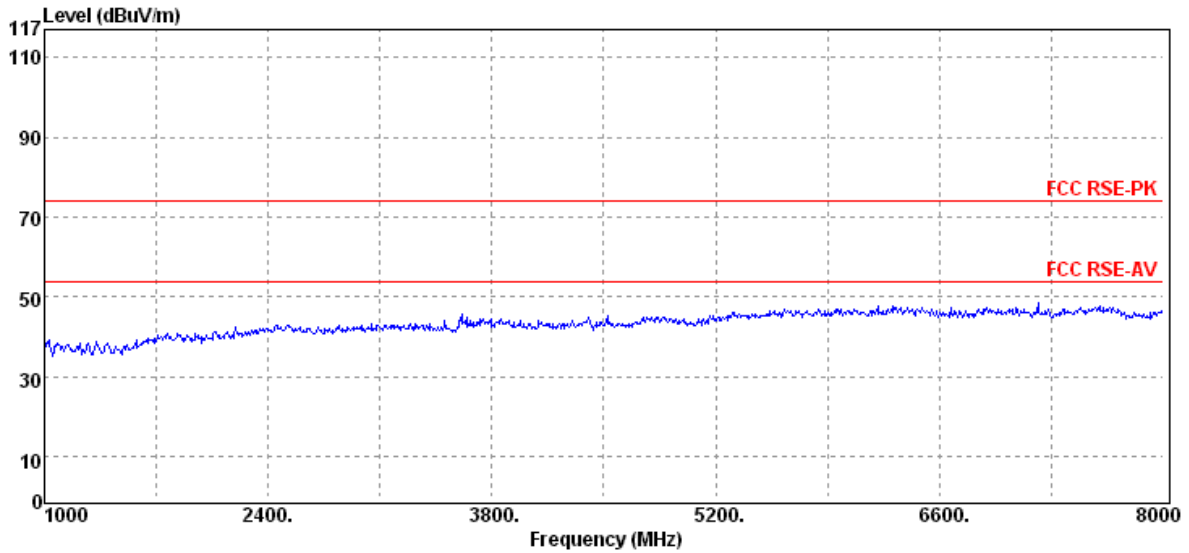
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Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5320 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



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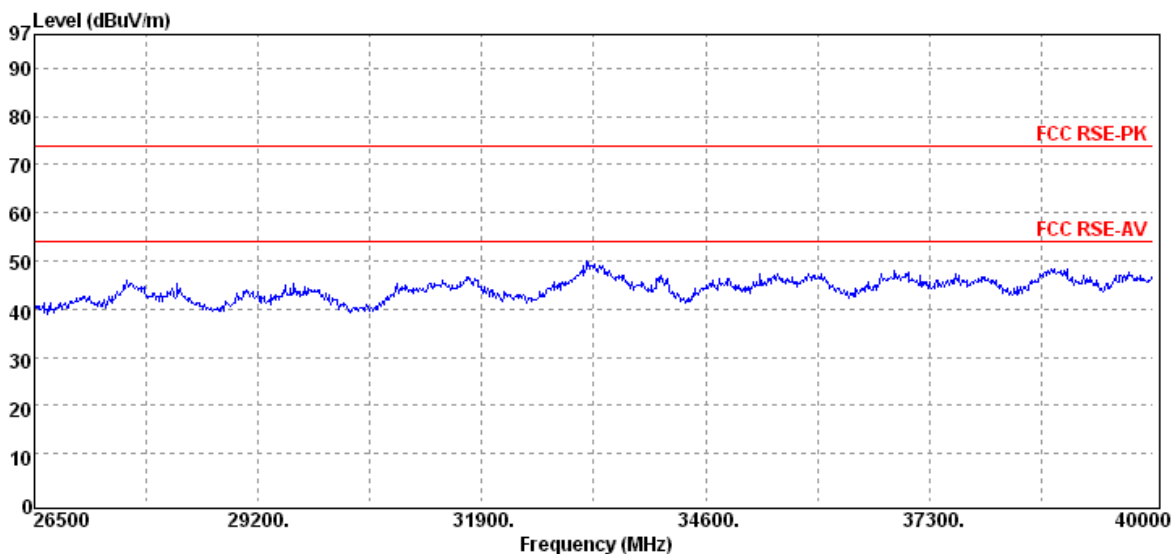
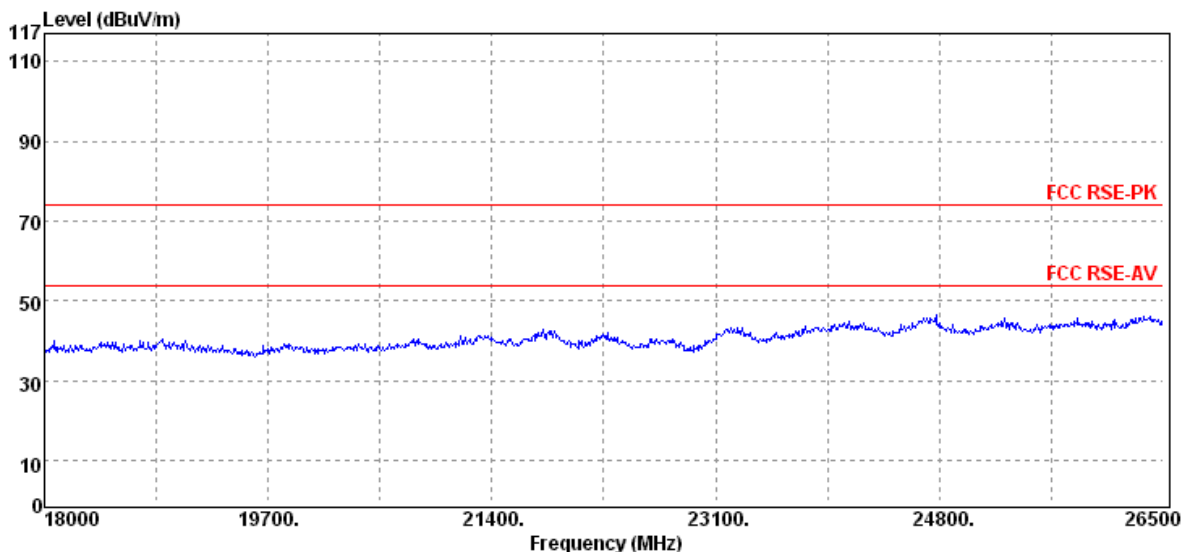
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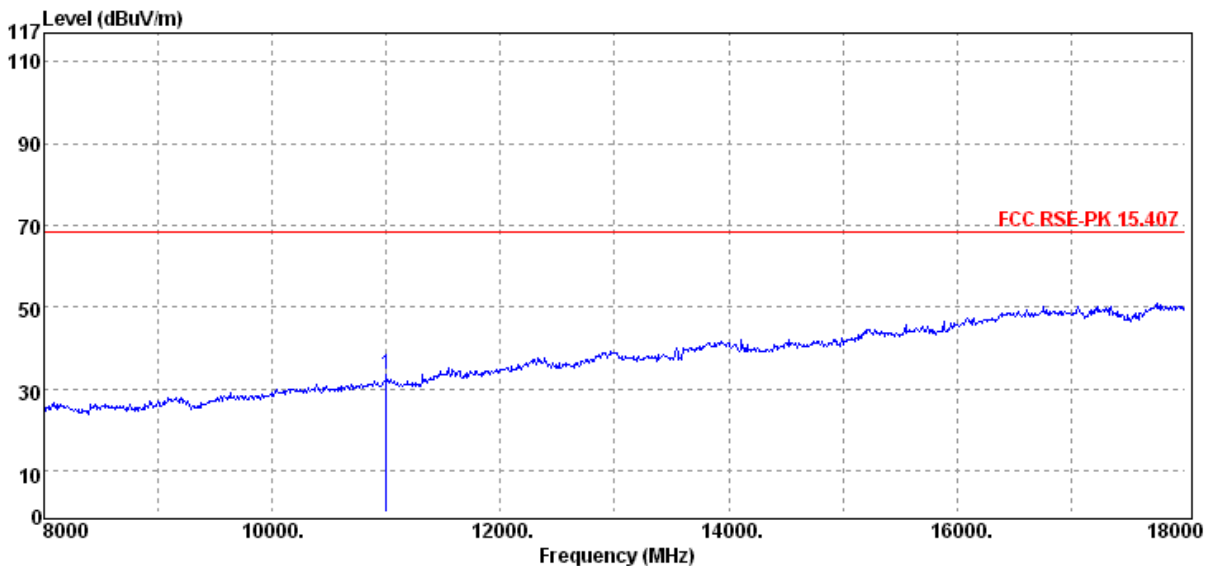
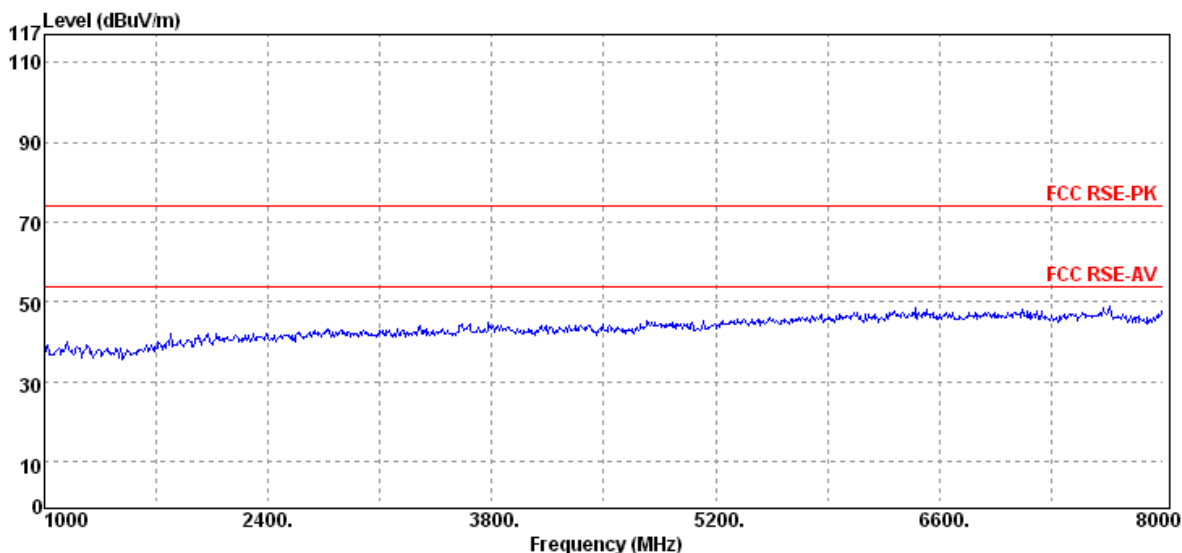
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**802.11a 5470-5725MHz**

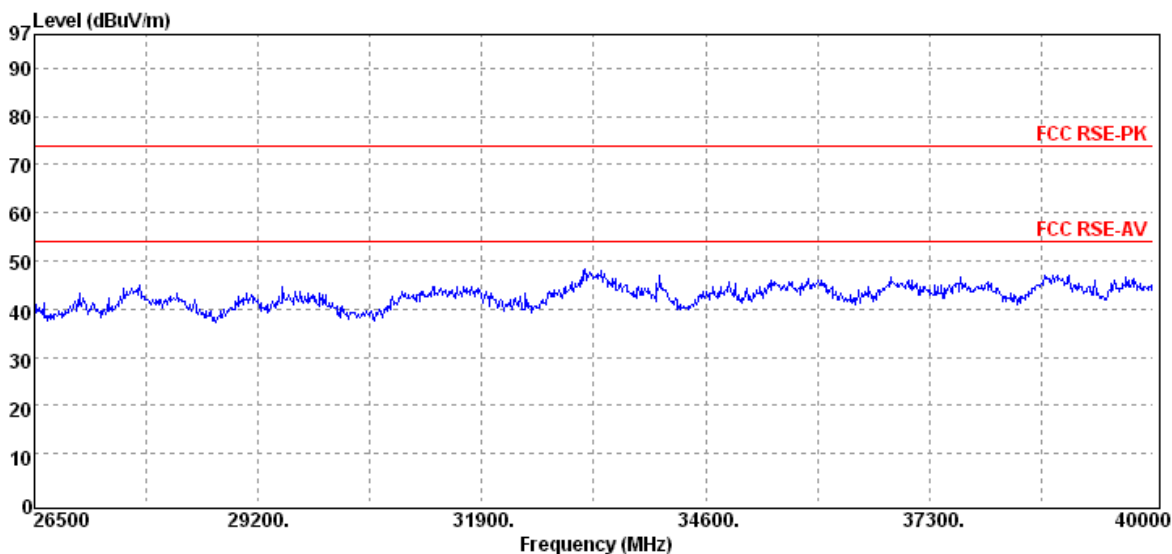
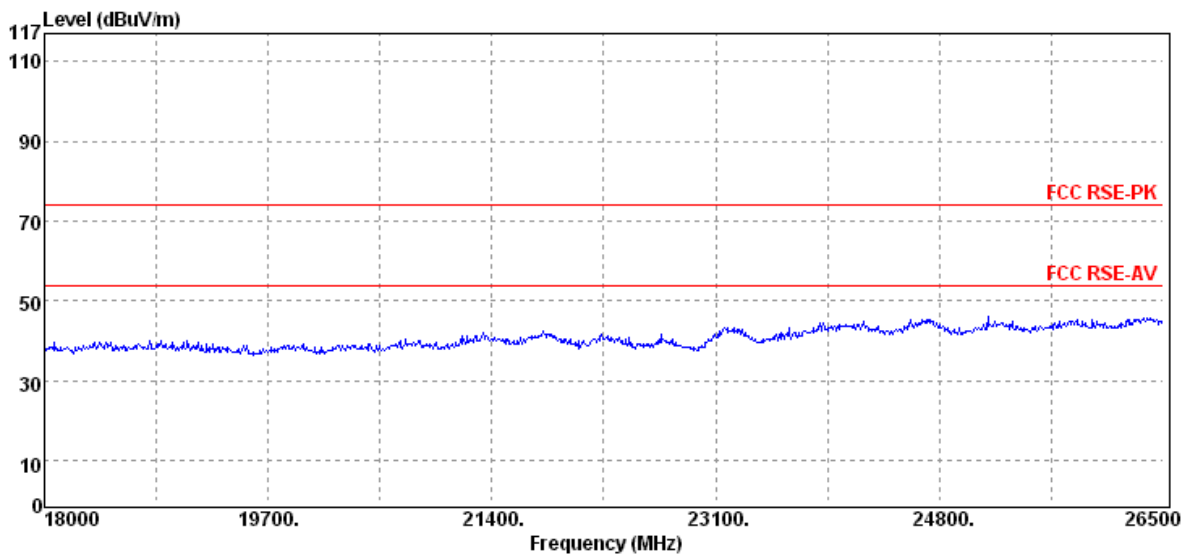
Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5500 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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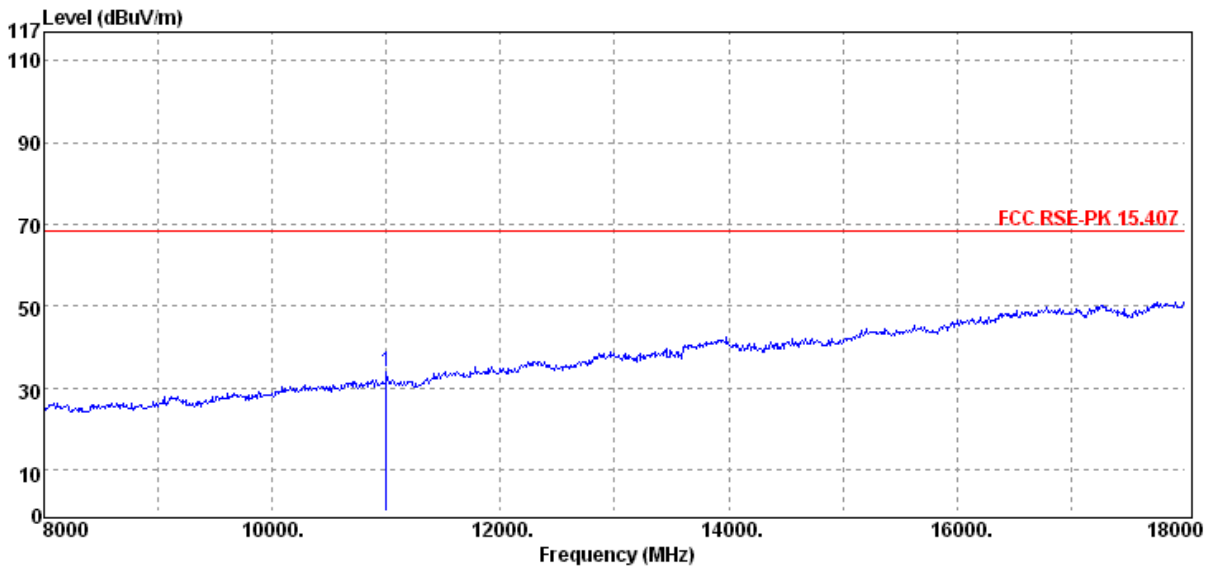
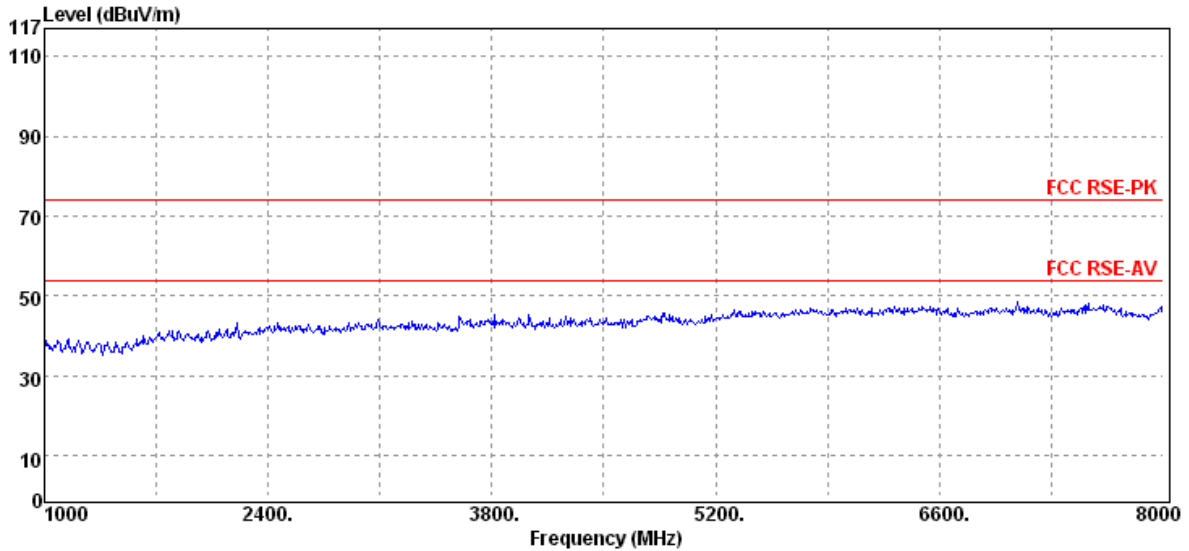
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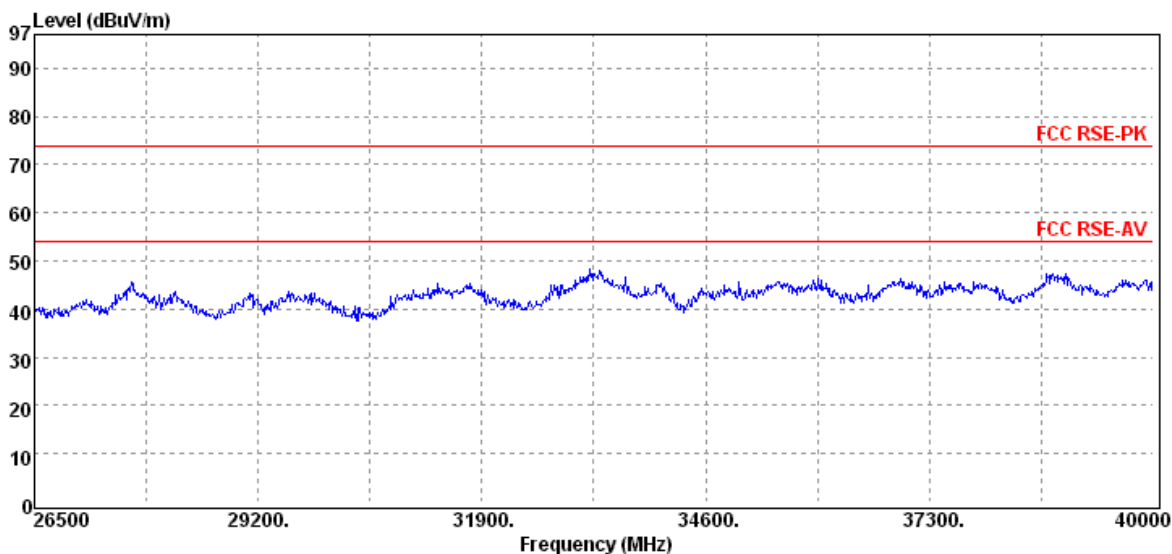
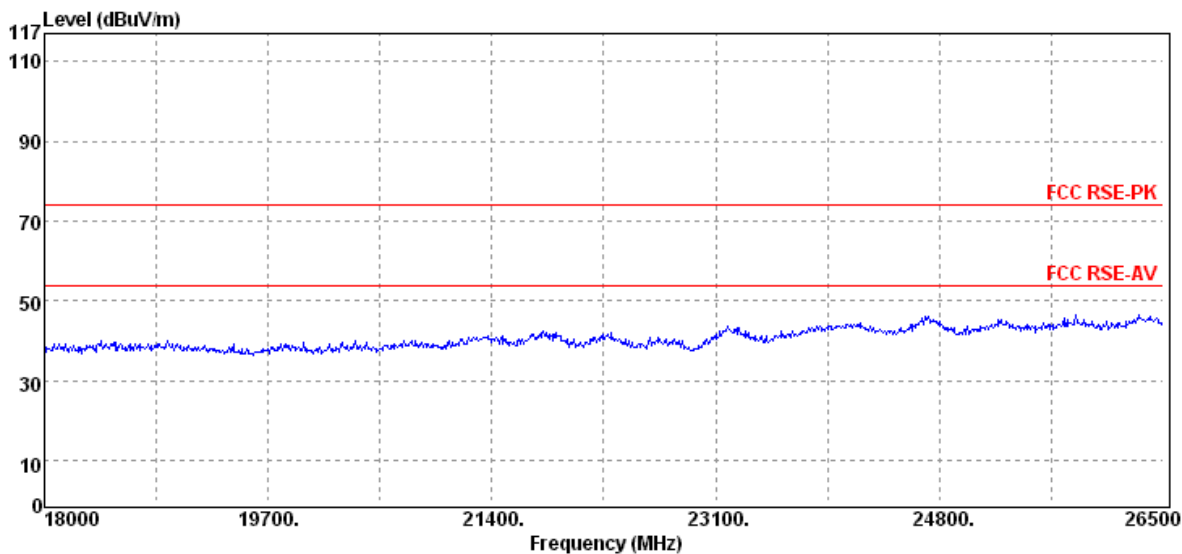
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Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5500 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



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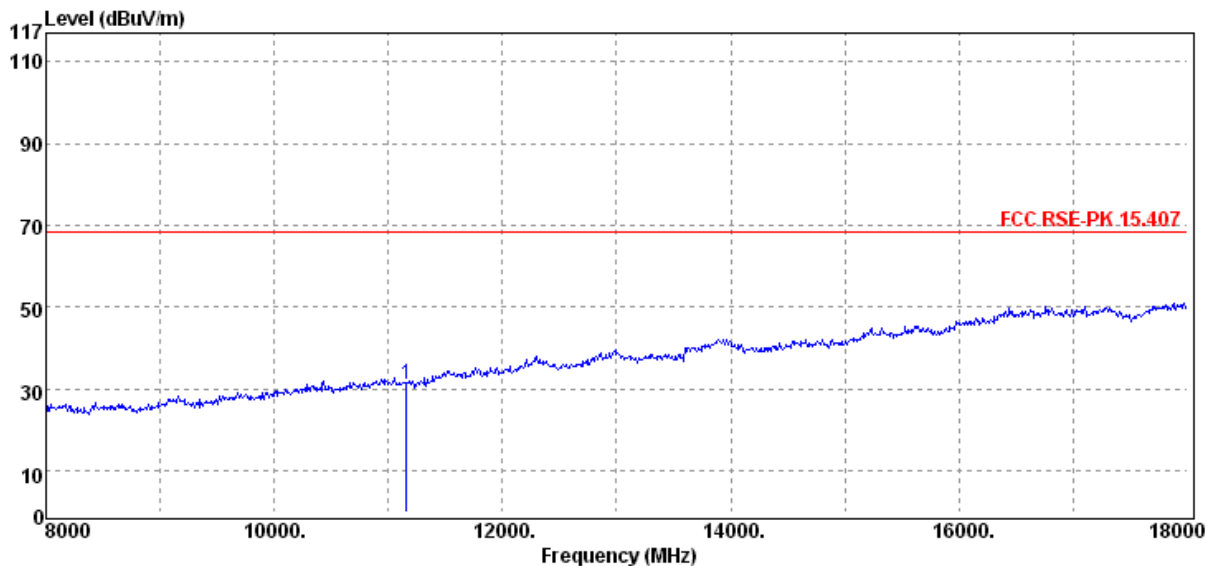
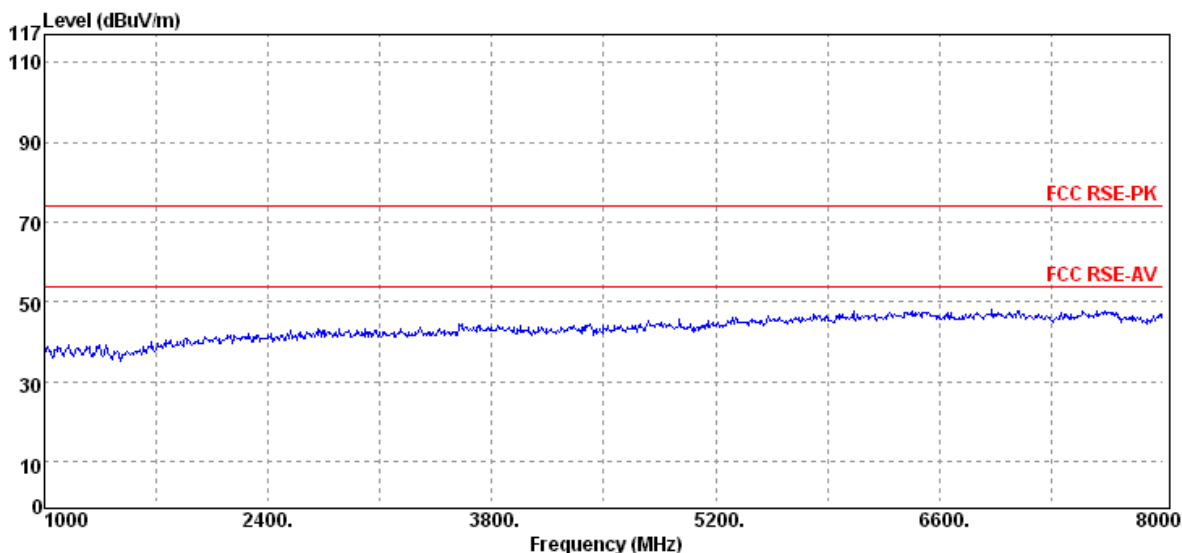
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Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5580 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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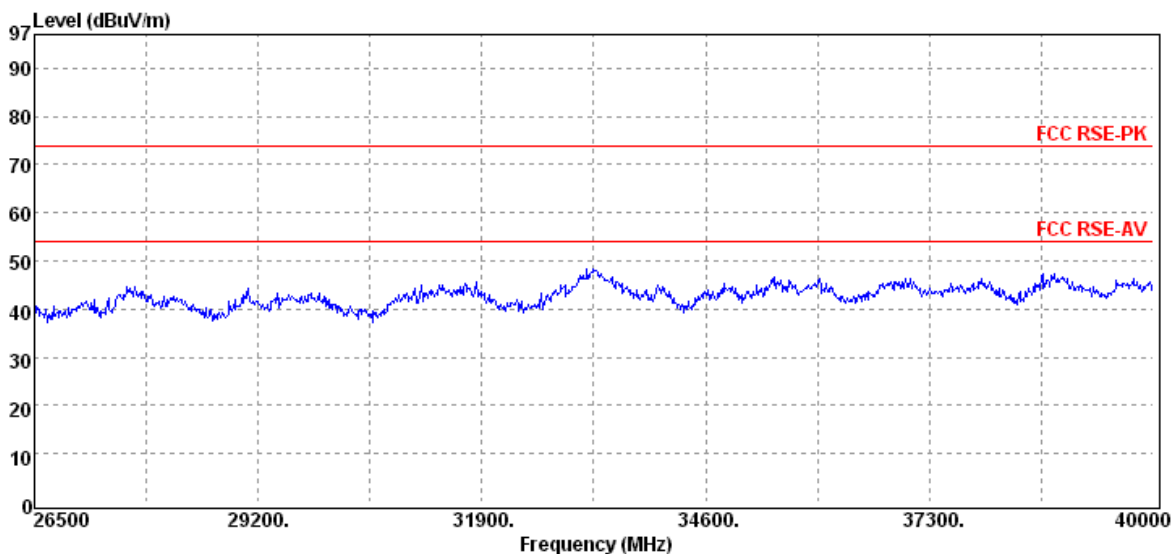
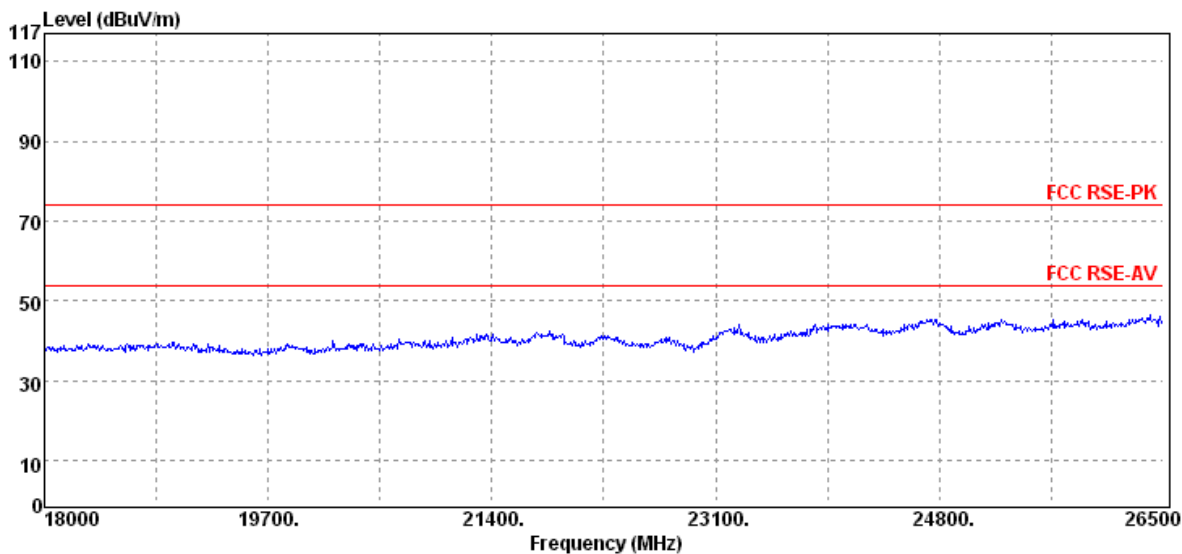
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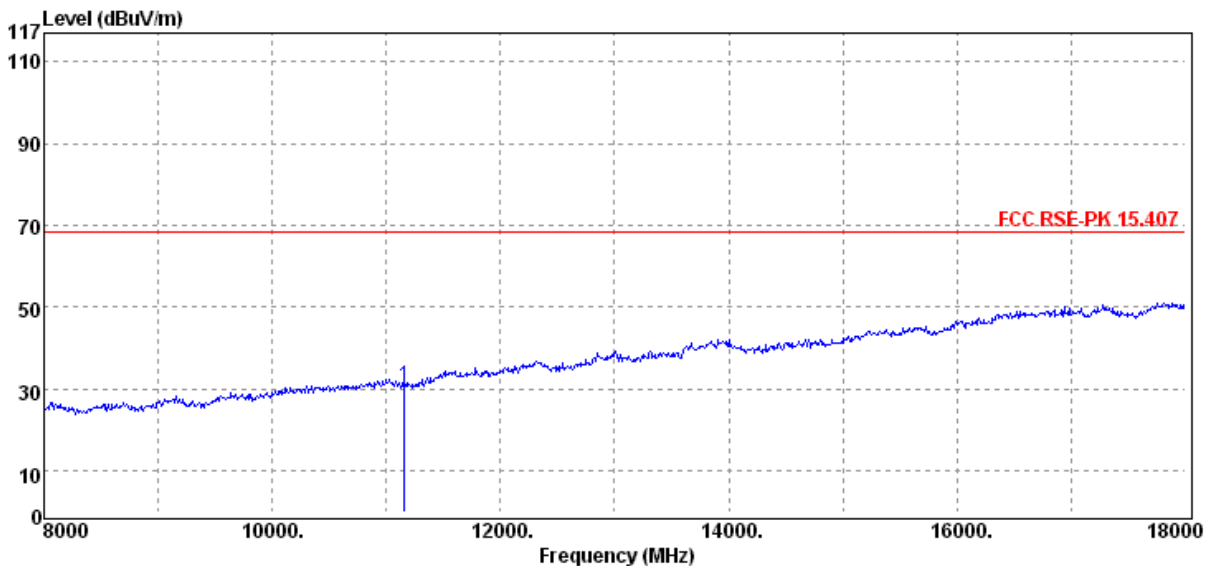
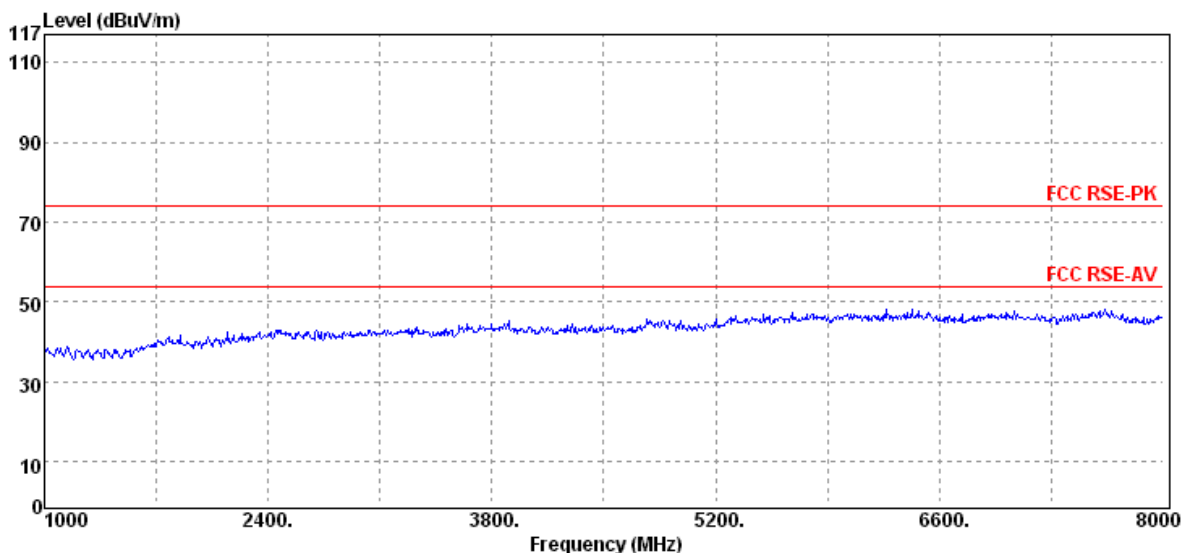
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Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5580 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



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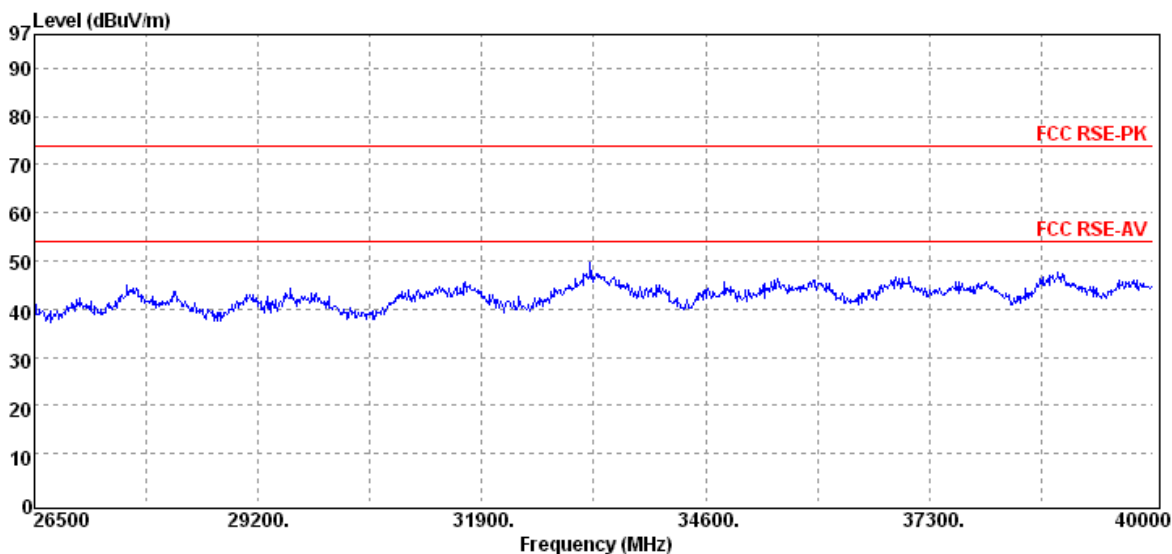
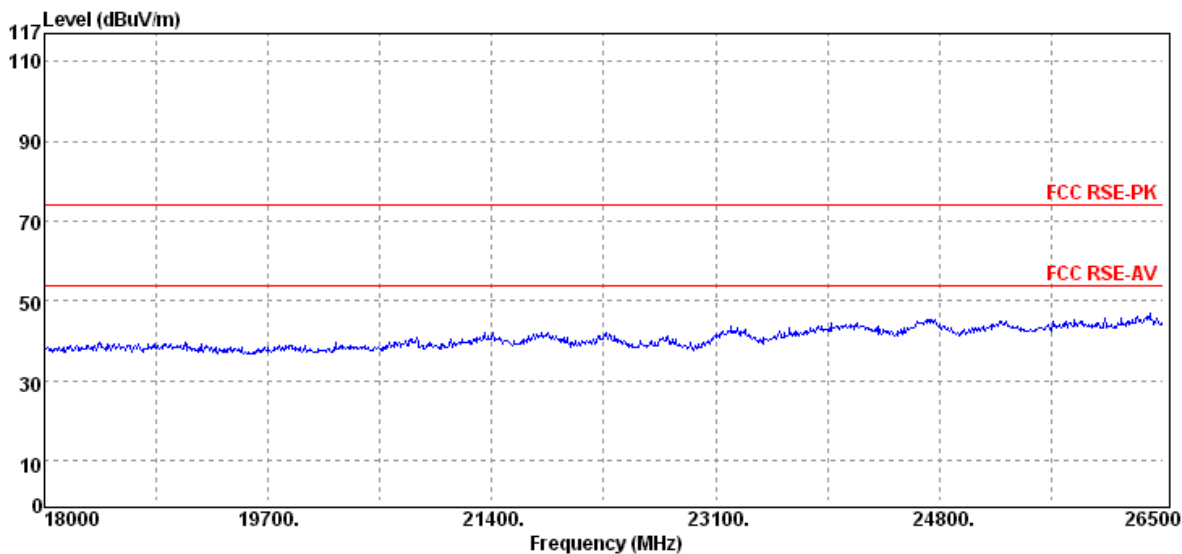
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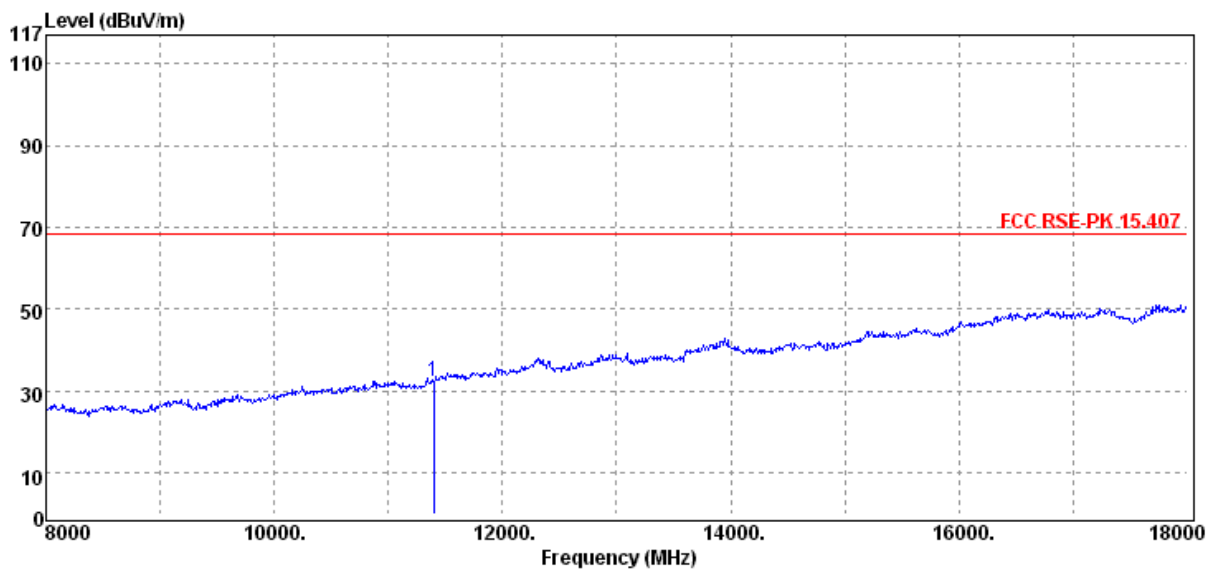
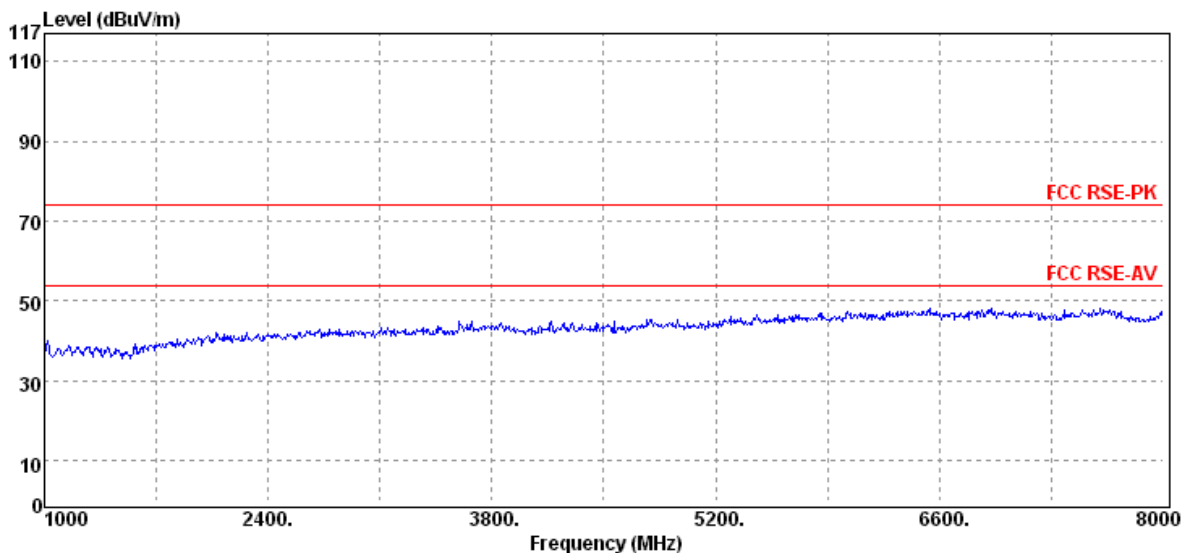
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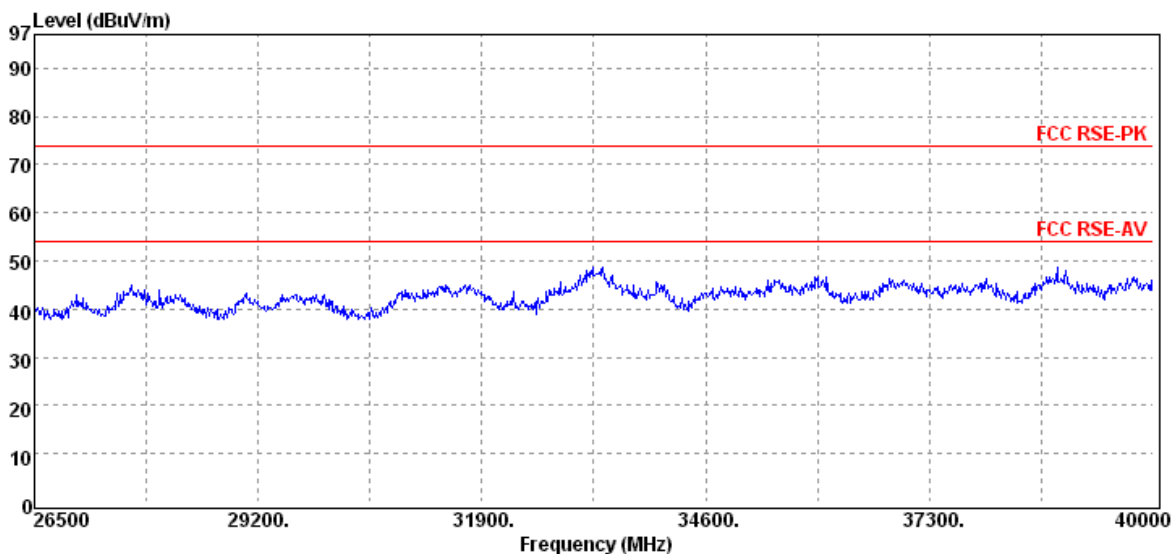
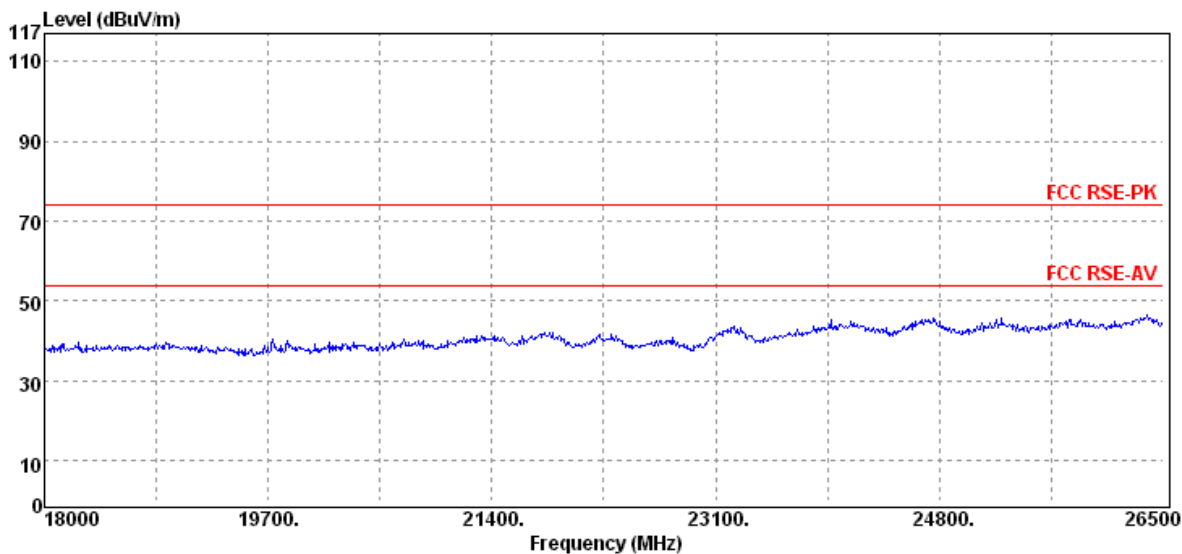
Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5700 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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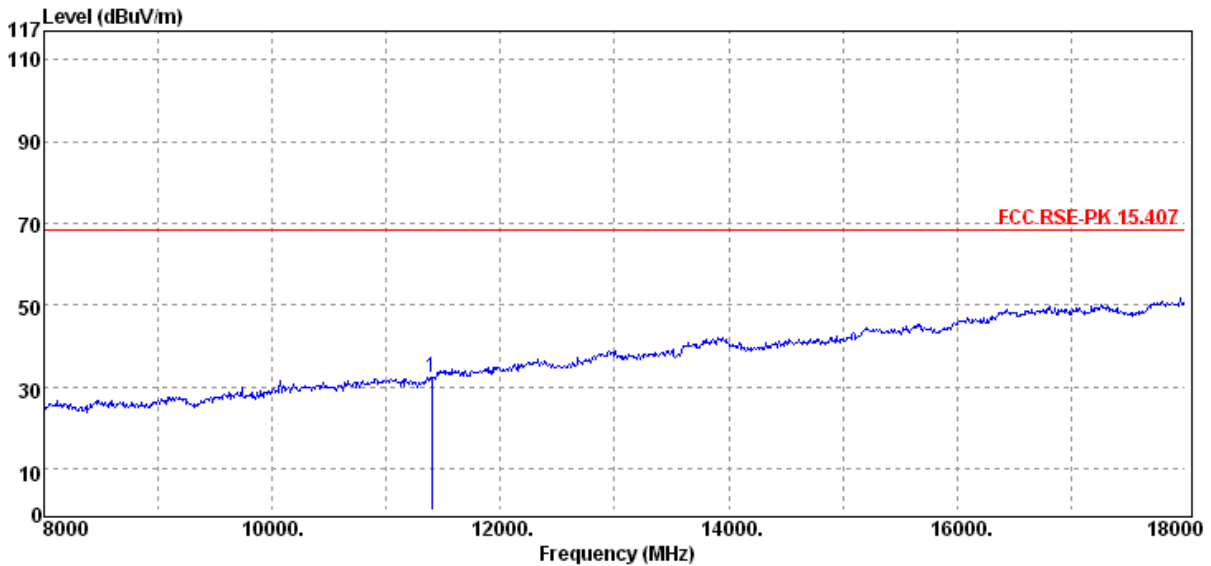
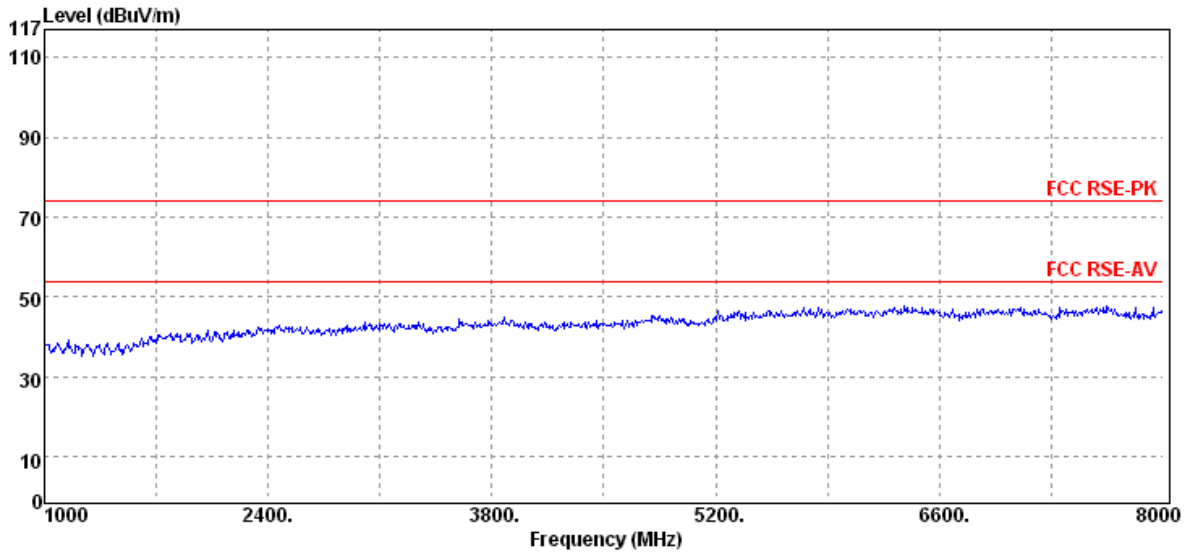
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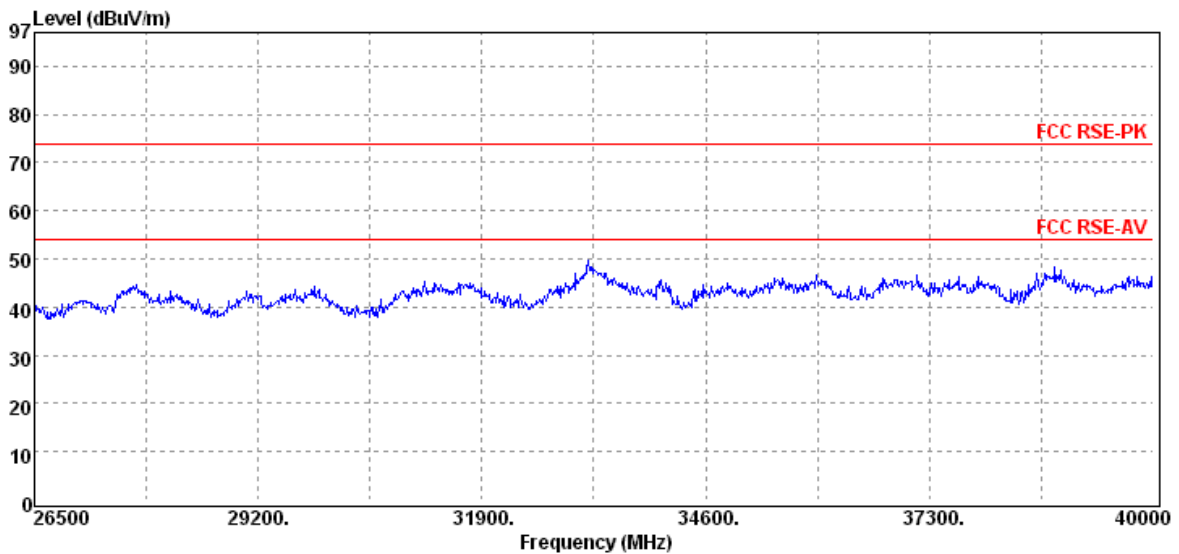
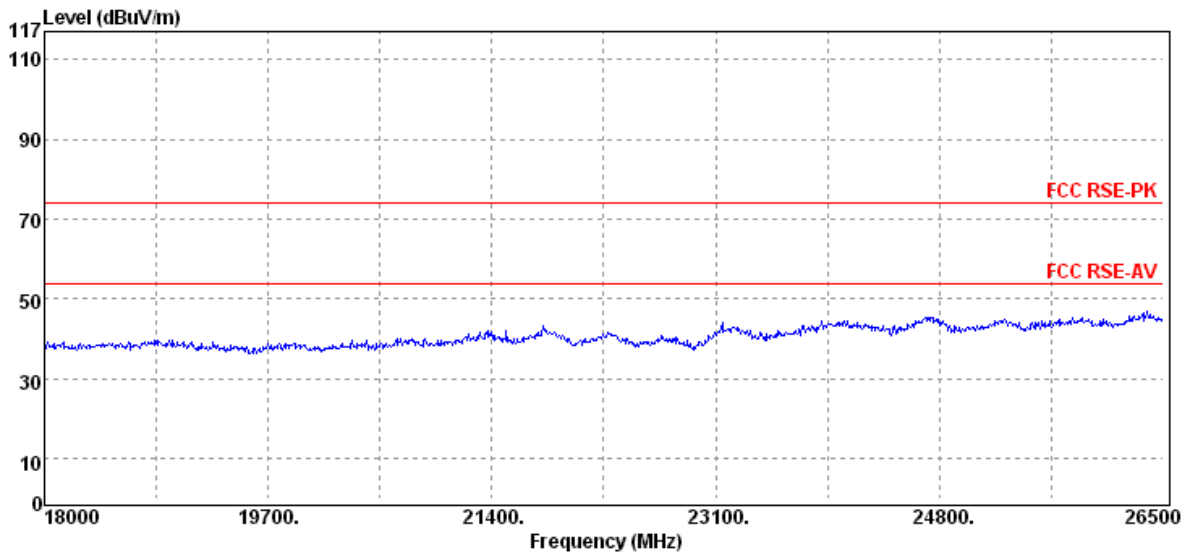
Operation Band	:802.11a	Test Date	:2012-11-28
Fundamental Frequency	:5700 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



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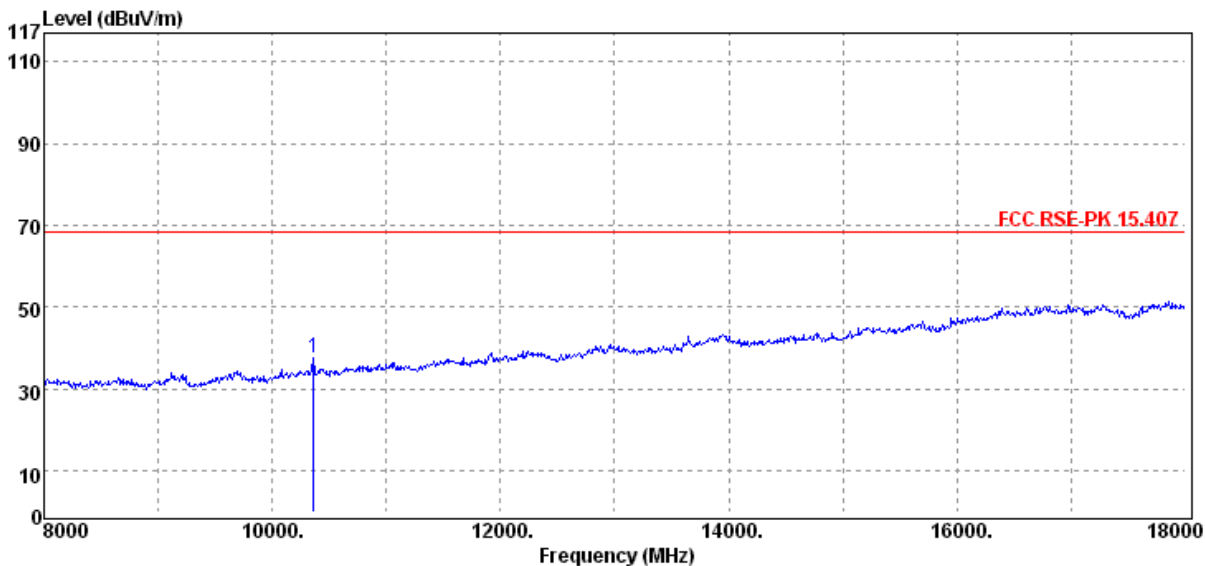
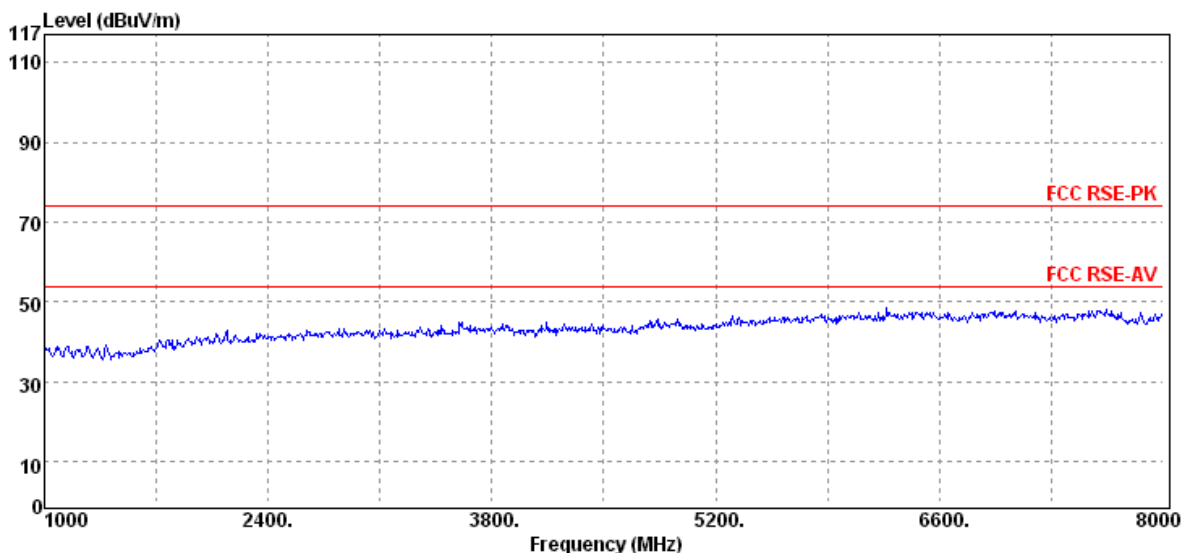
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**802.11n\_20MHz\_5150-5250MHz**

Operation Band	:802.11n 20M	Test Date	:2012-11-28
Fundamental Frequency	:5180 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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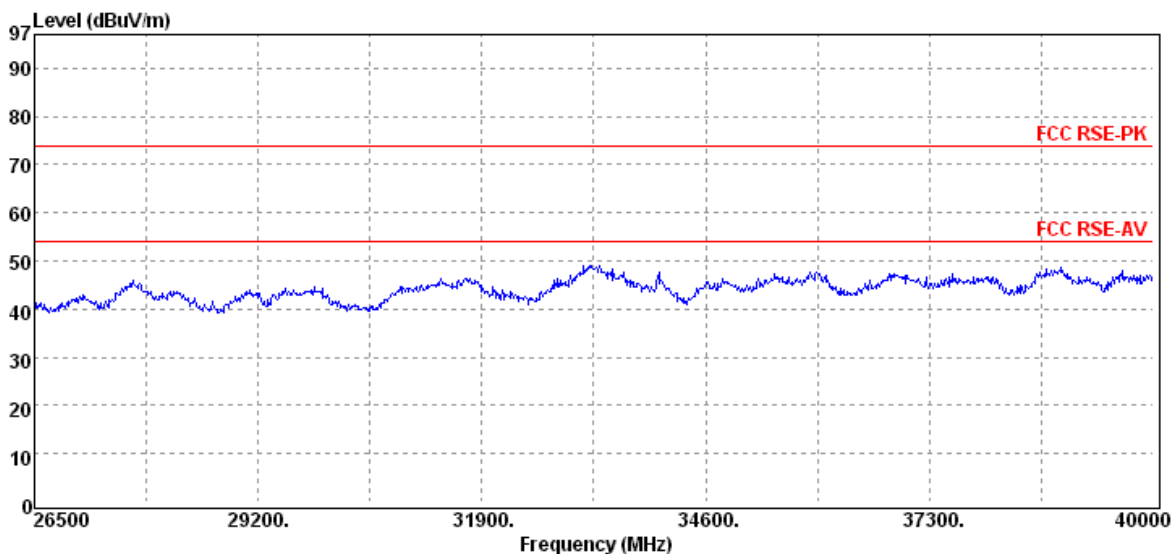
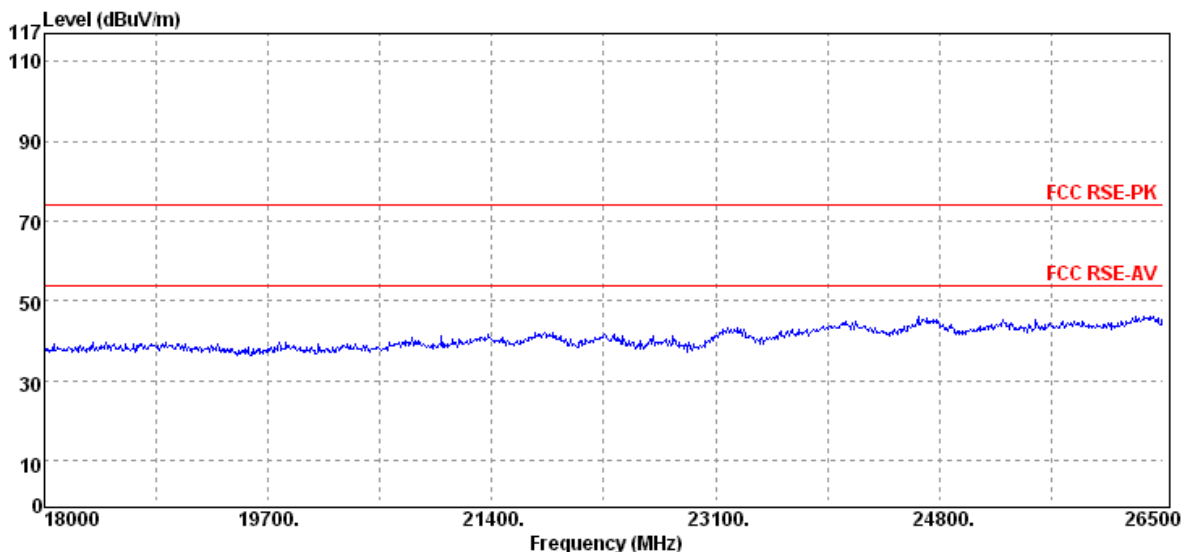
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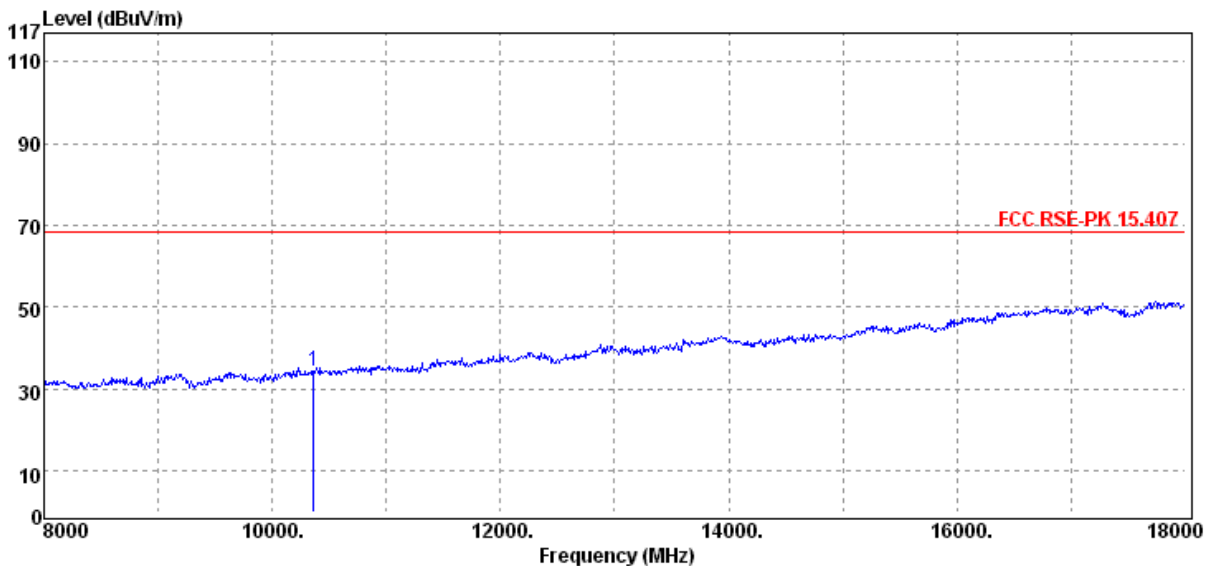
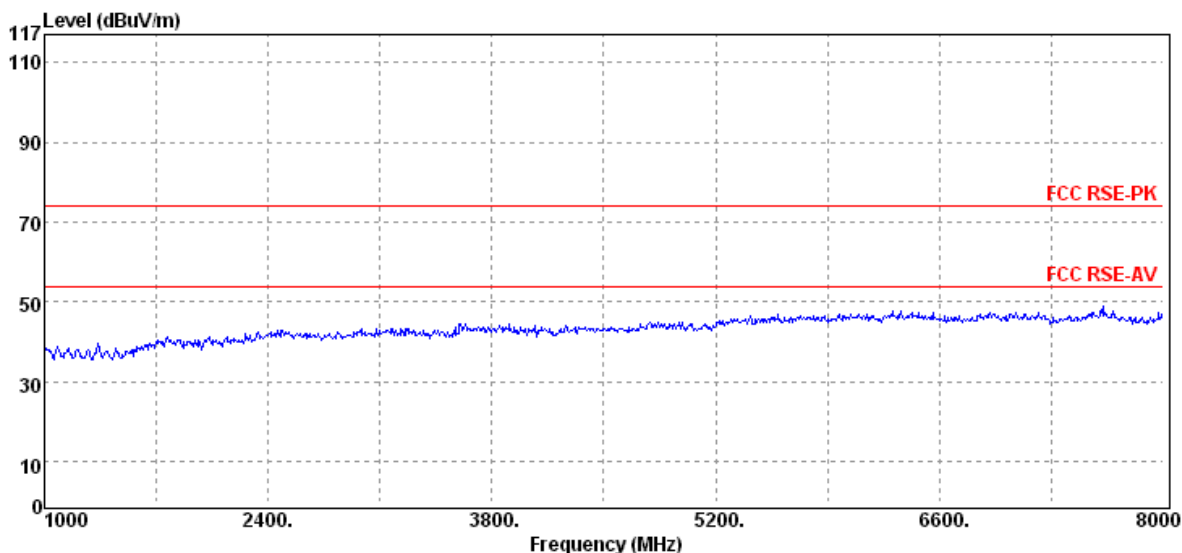
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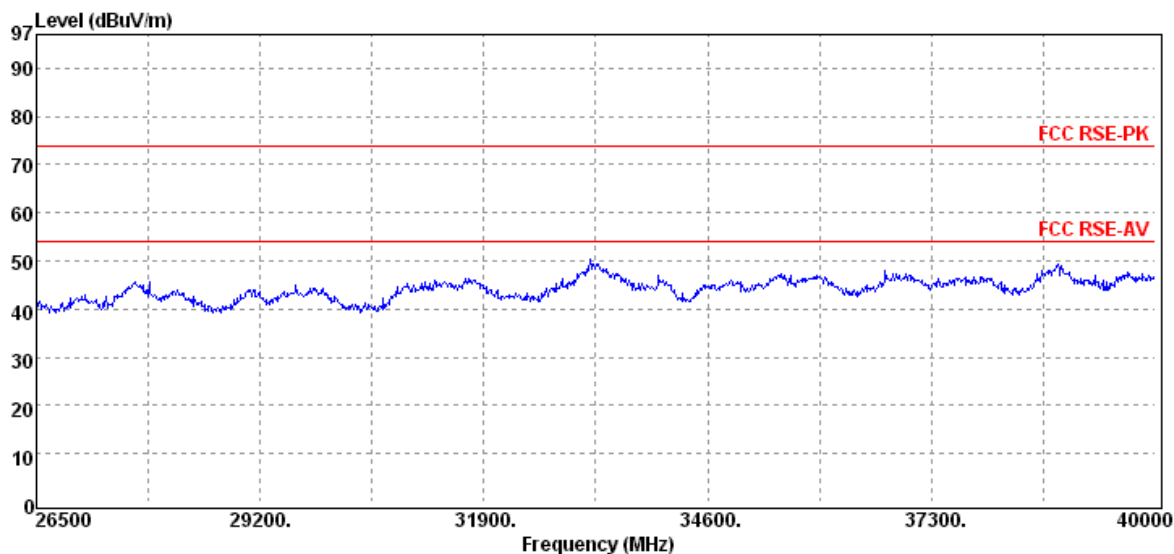
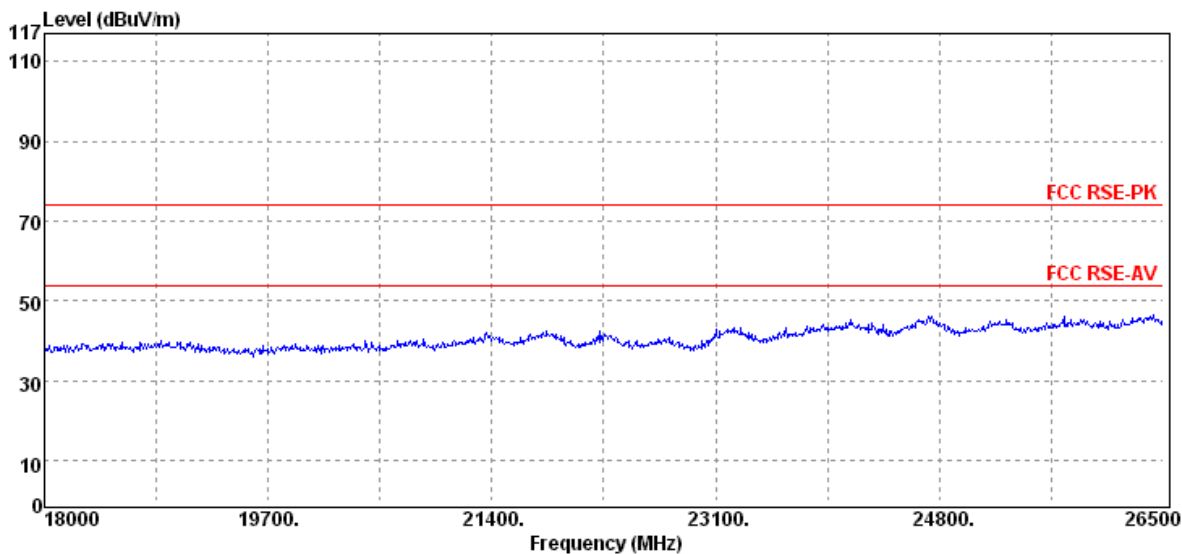
Operation Band	:802.11n 20M	Test Date	:2012-11-28
Fundamental Frequency	:5180 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



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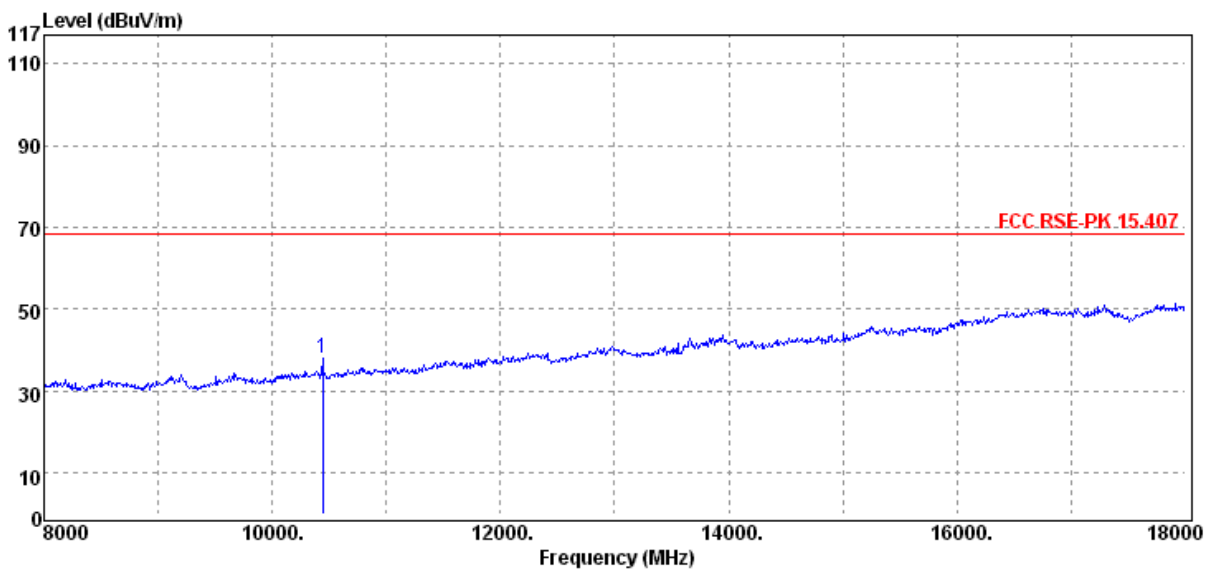
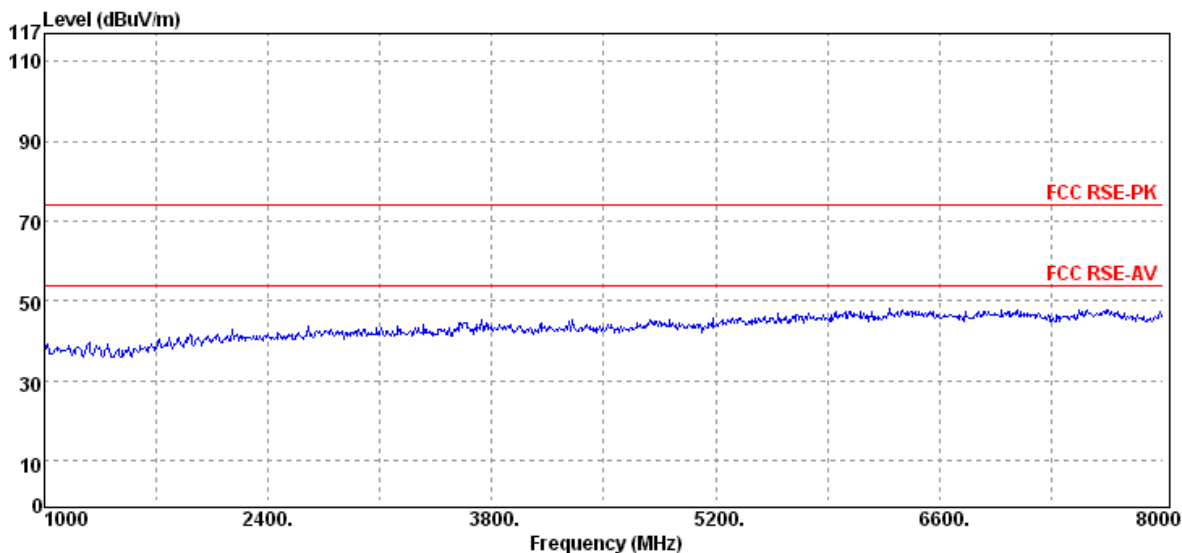
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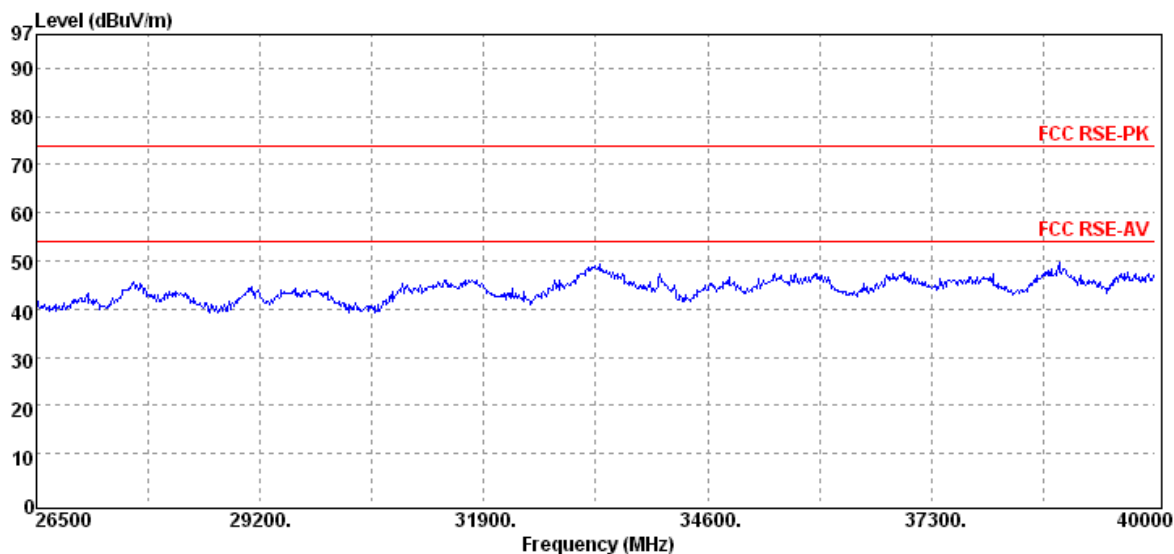
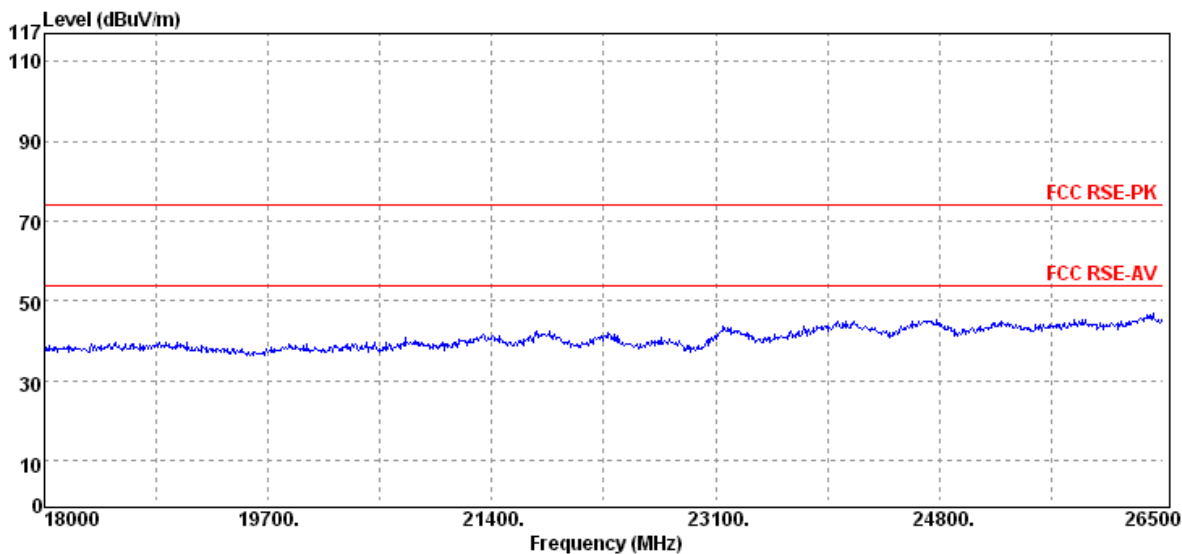
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Operation Band	:802.11n 20M	Test Date	:2012-11-28
Fundamental Frequency	:5220 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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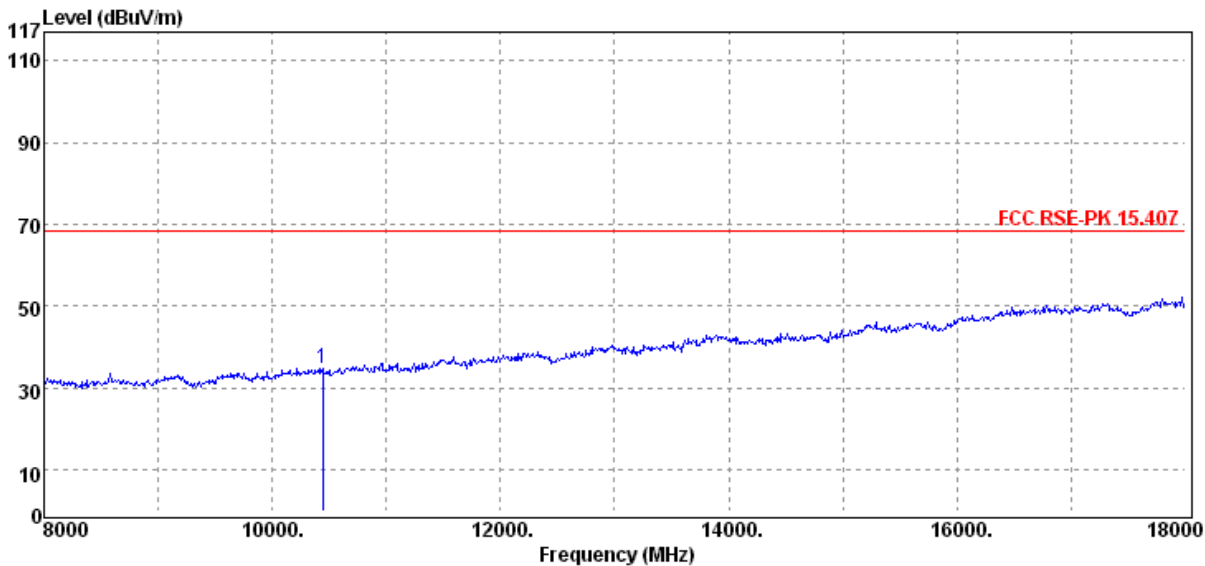
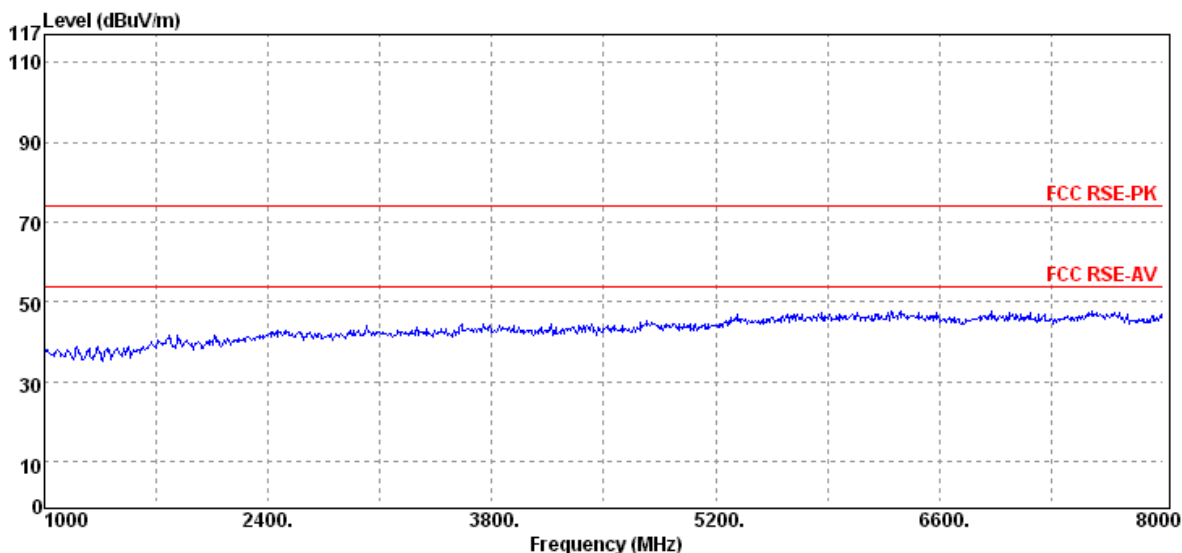
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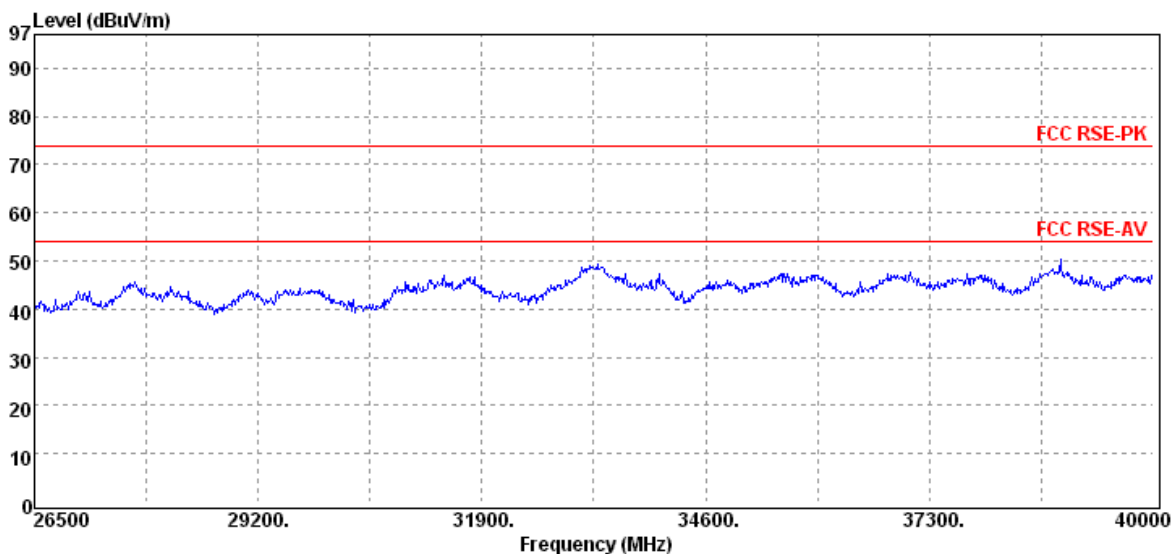
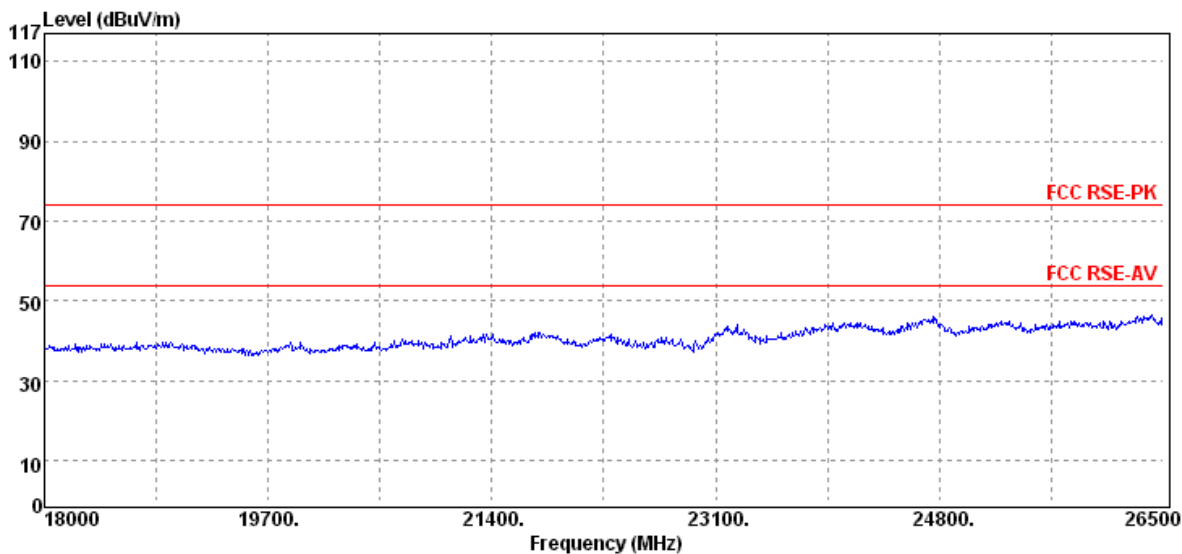
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Operation Band	:802.11n 20M	Test Date	:2012-11-28
Fundamental Frequency	:5220 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



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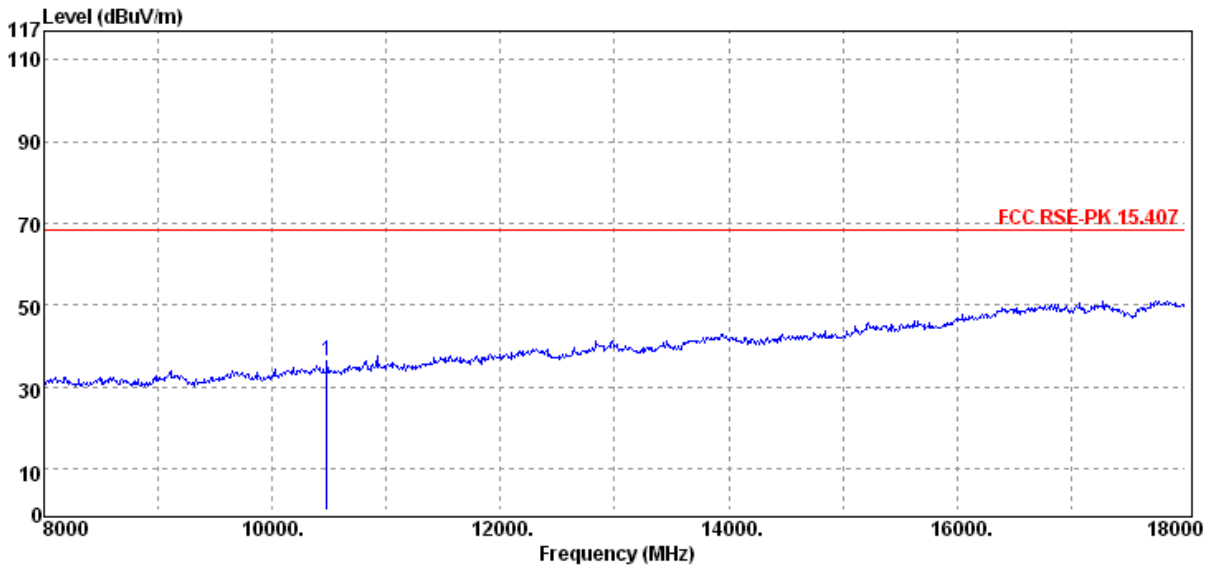
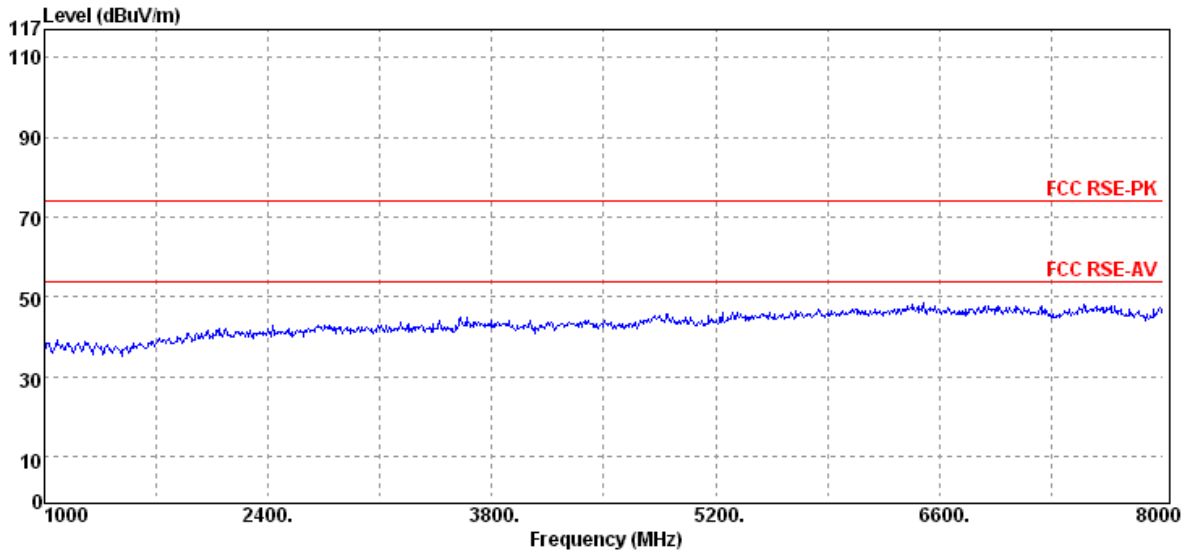
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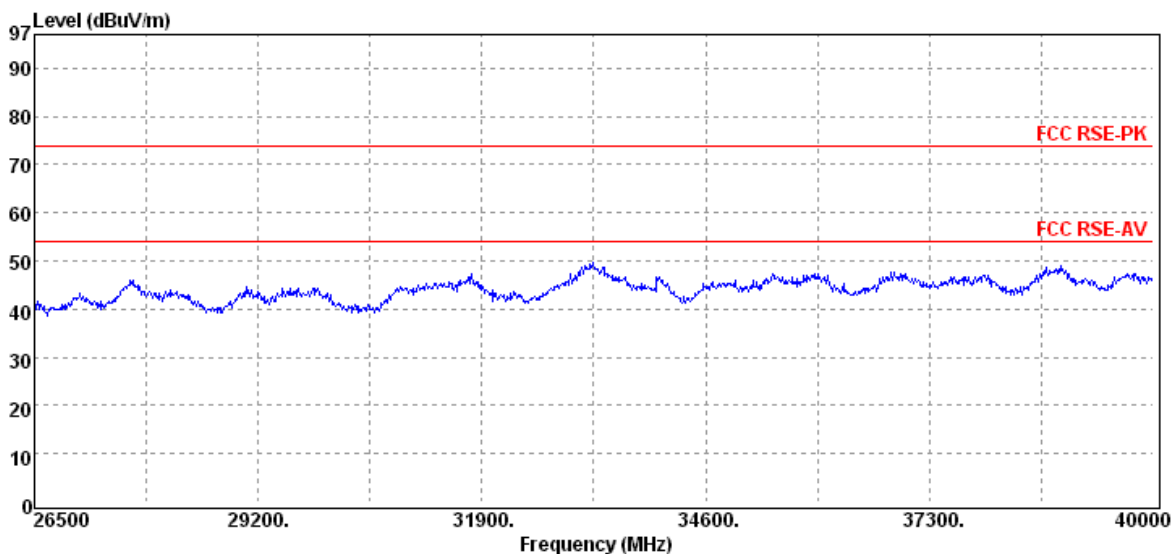
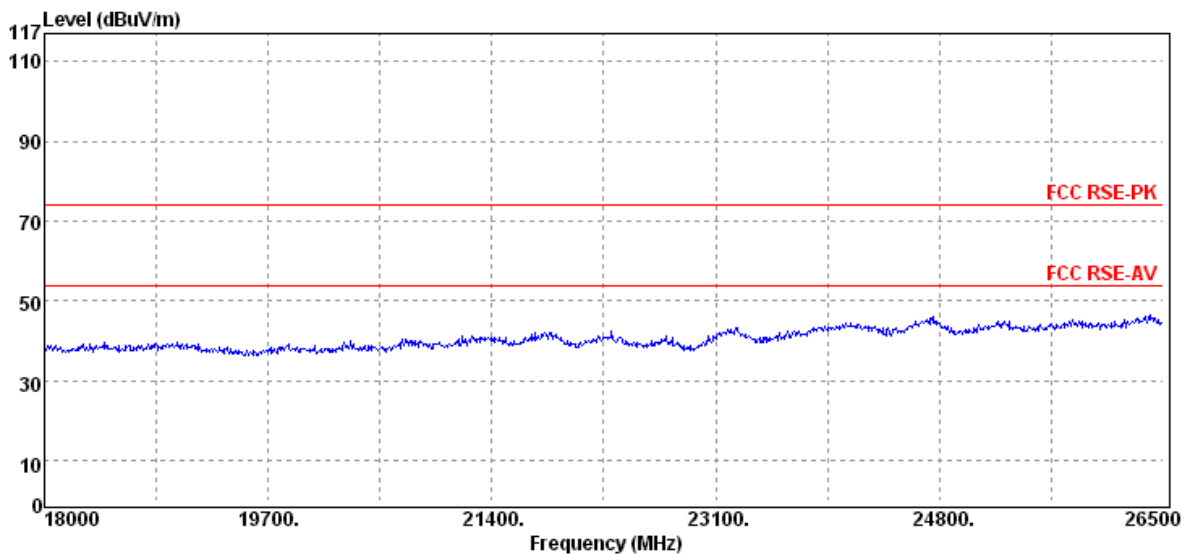
Operation Band	:802.11n 20M	Test Date	:2012-11-28
Fundamental Frequency	:5240 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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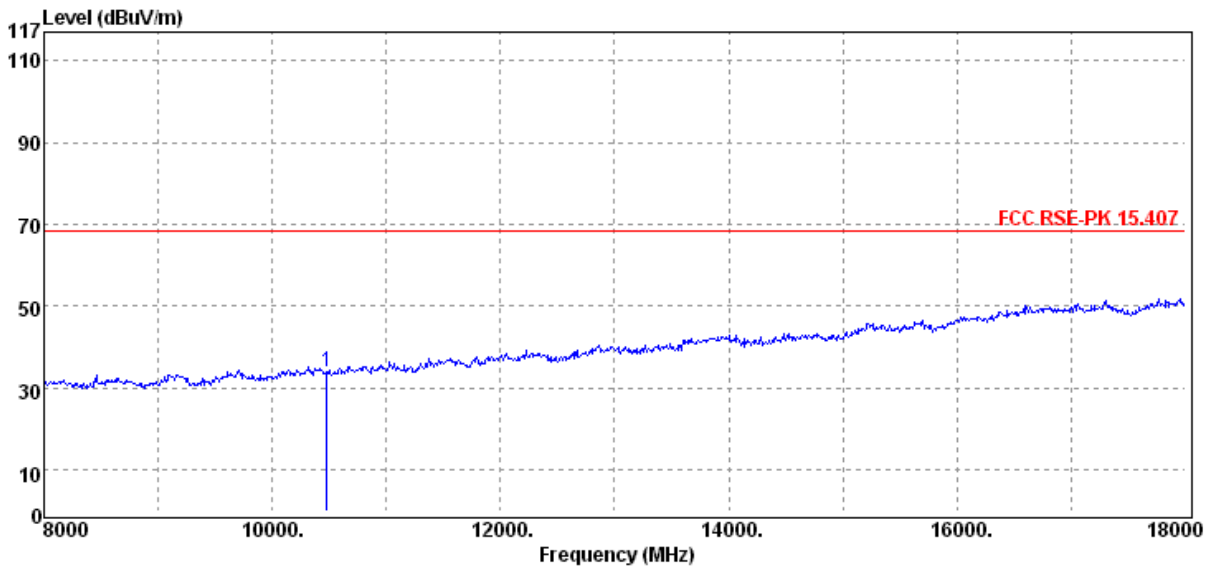
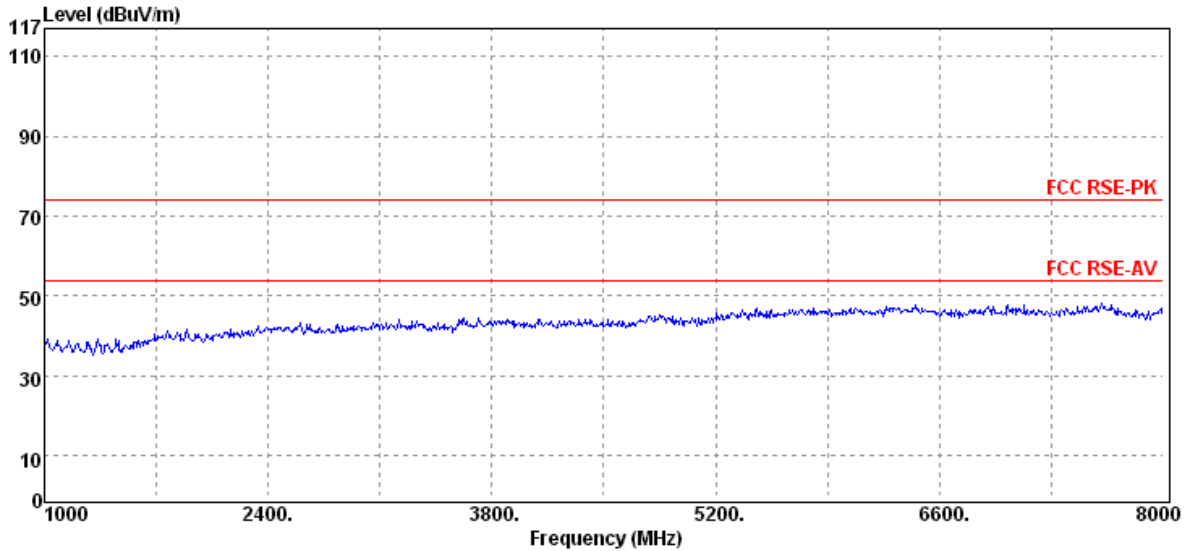
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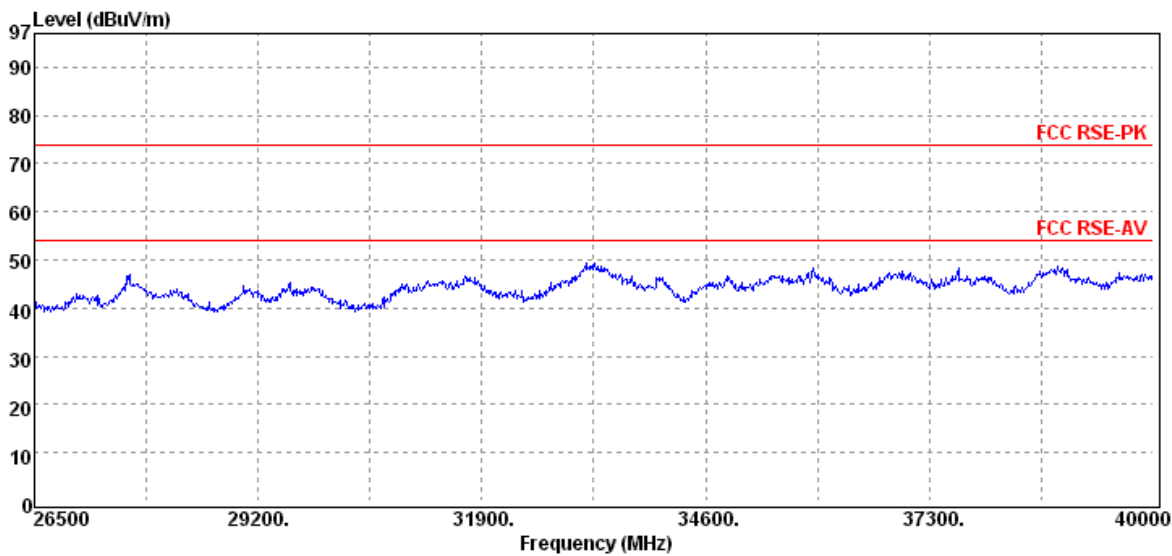
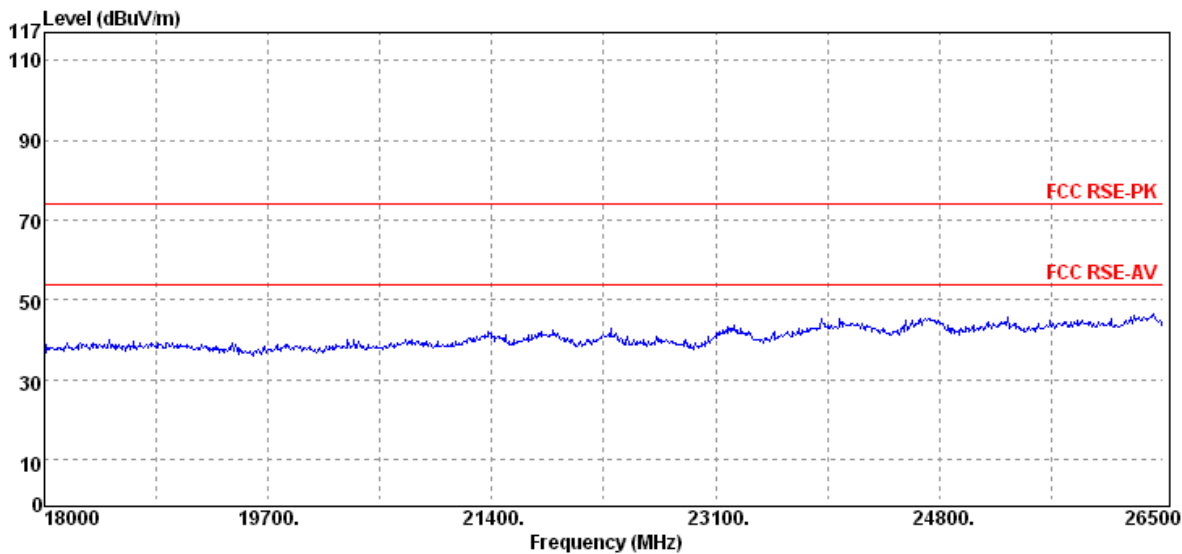
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Operation Band	:802.11n 20M	Test Date	:2012-11-28
Fundamental Frequency	:5240 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



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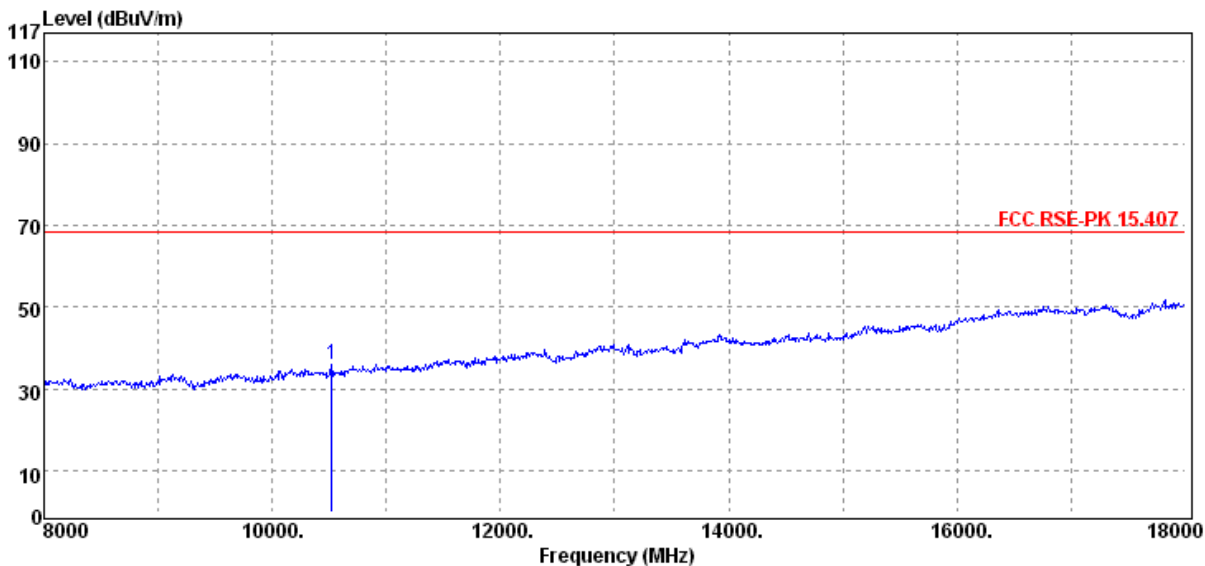
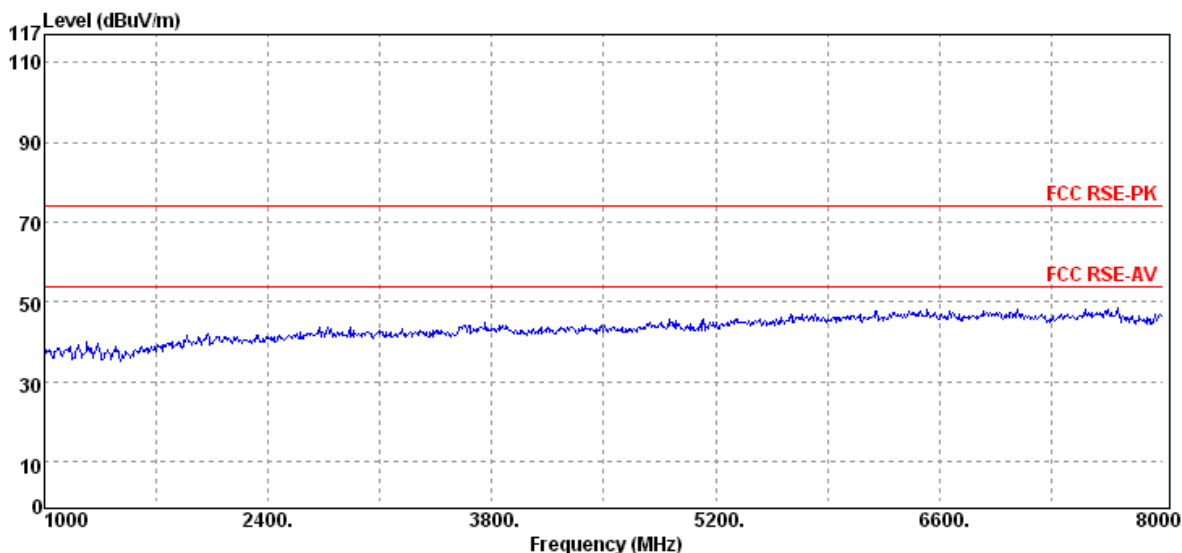
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**802.11a 5250-5350MHz**

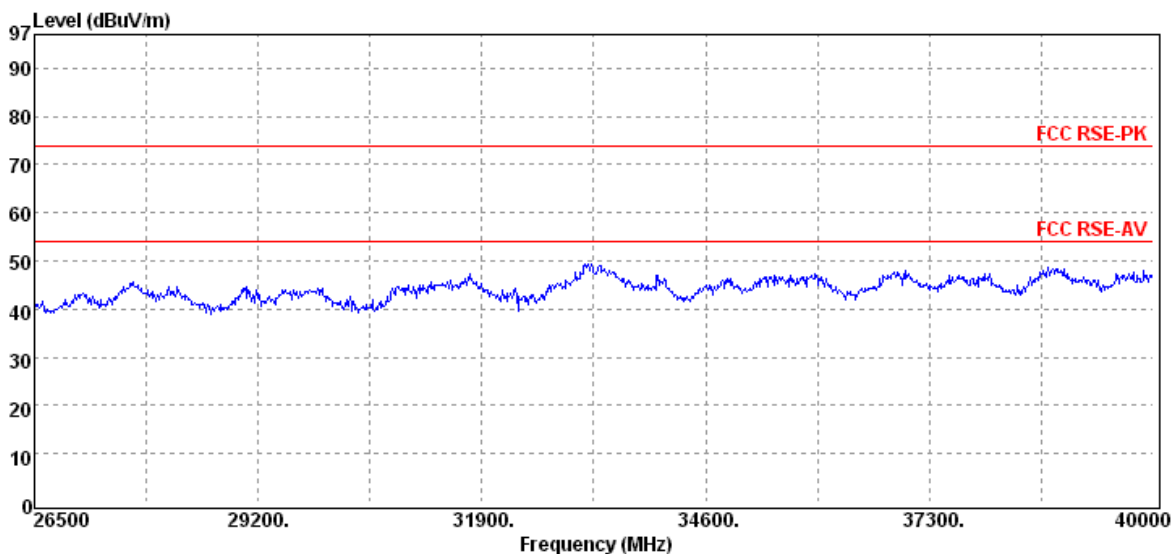
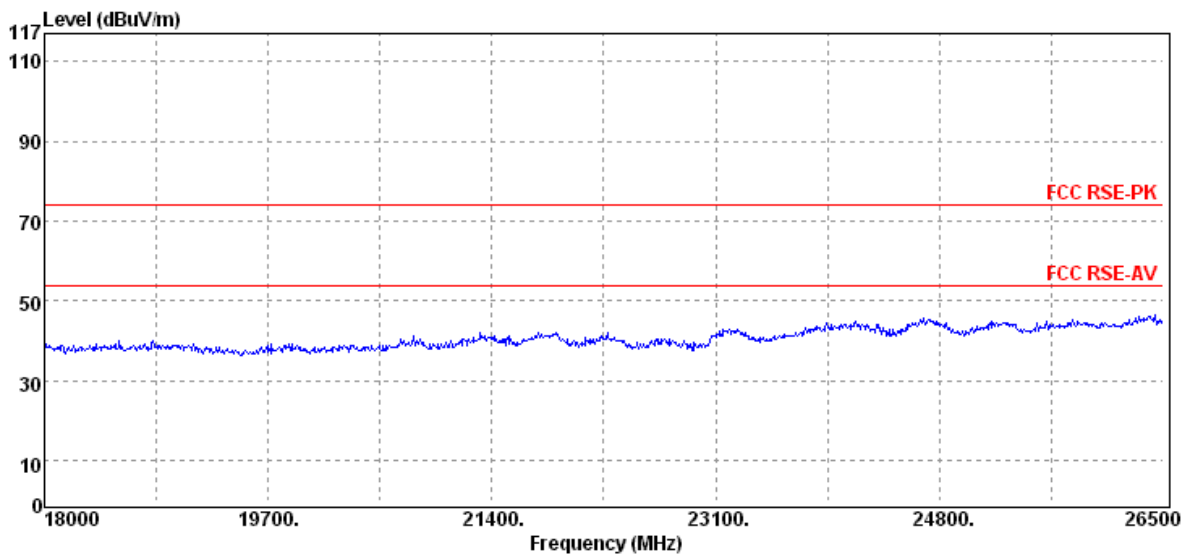
Operation Band	:802.11a 20M	Test Date	:2012-11-28
Fundamental Frequency	:5260 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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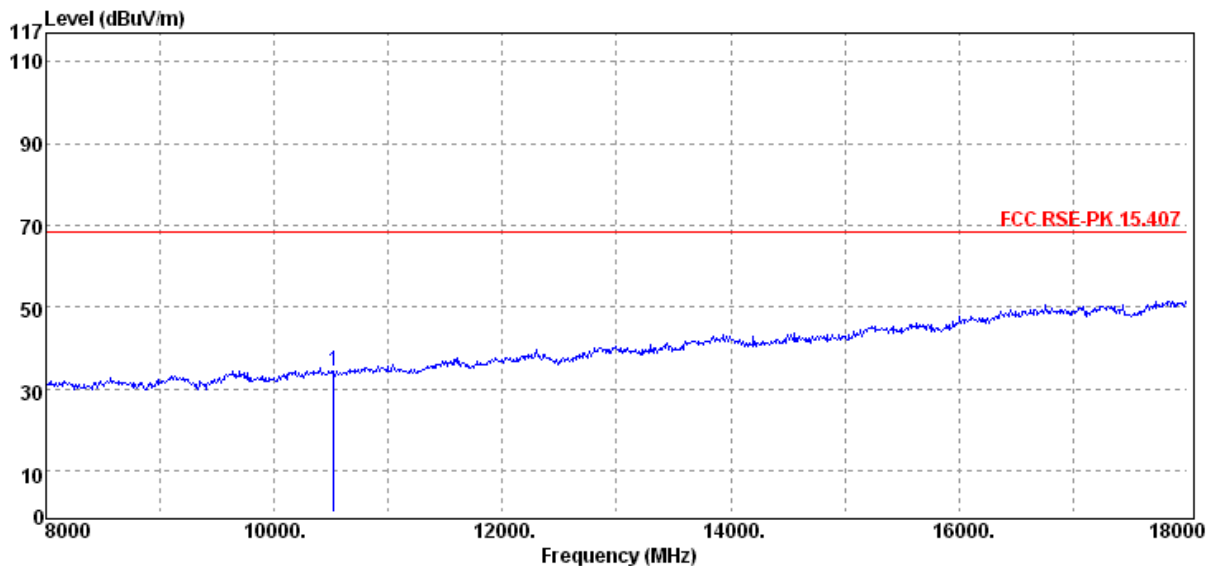
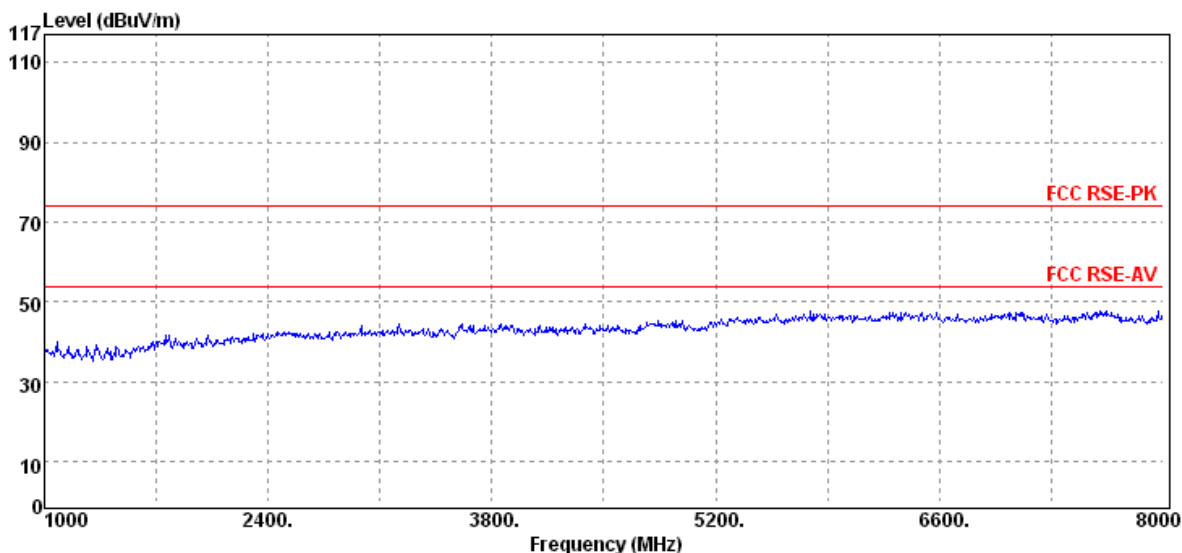
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Operation Band	:802.11a 20M	Test Date	:2012-11-28
Fundamental Frequency	:5260 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



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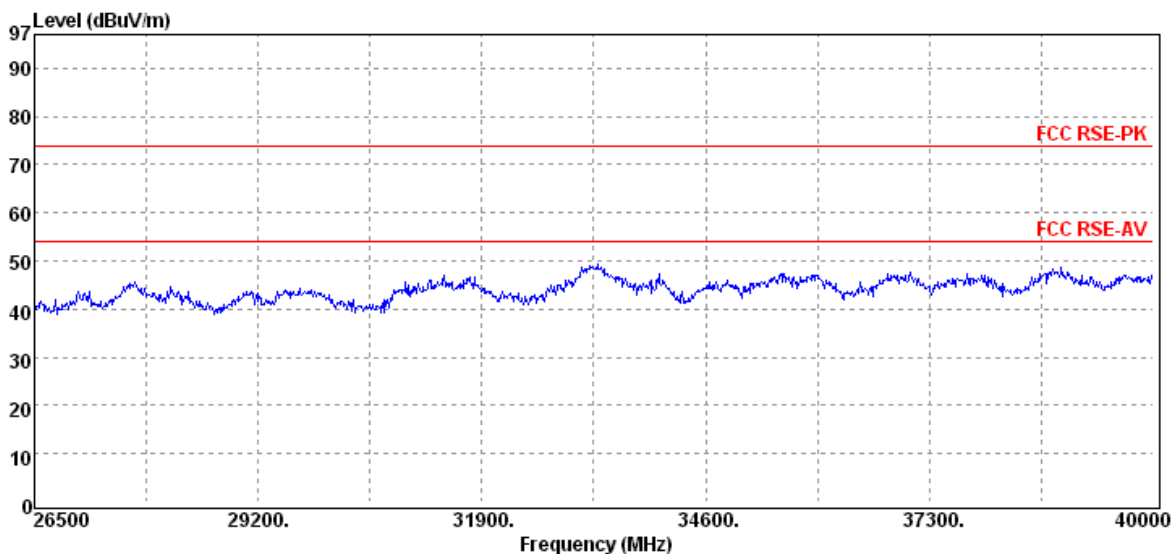
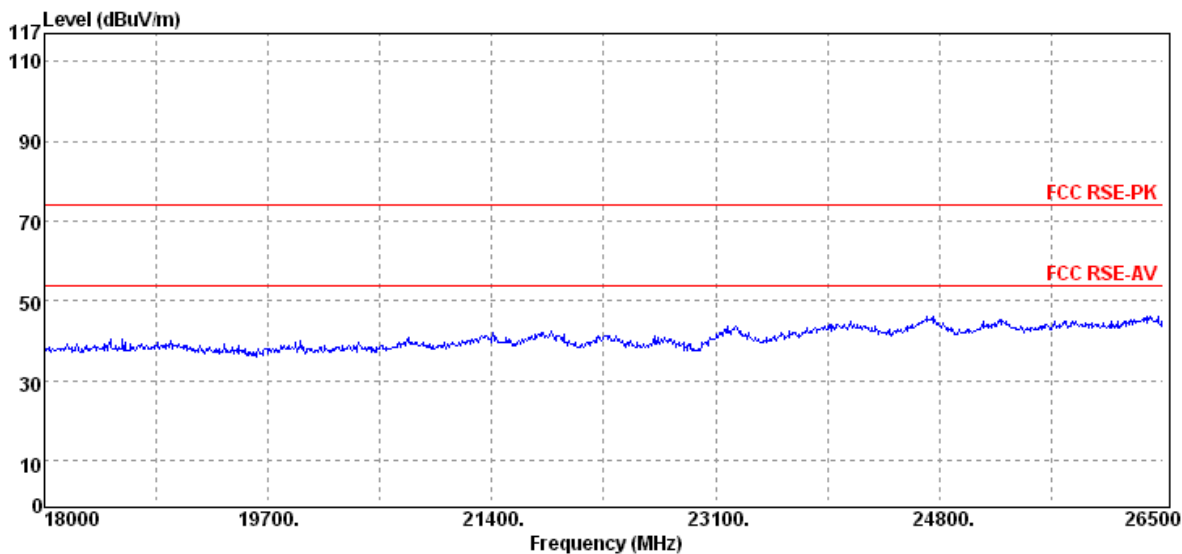
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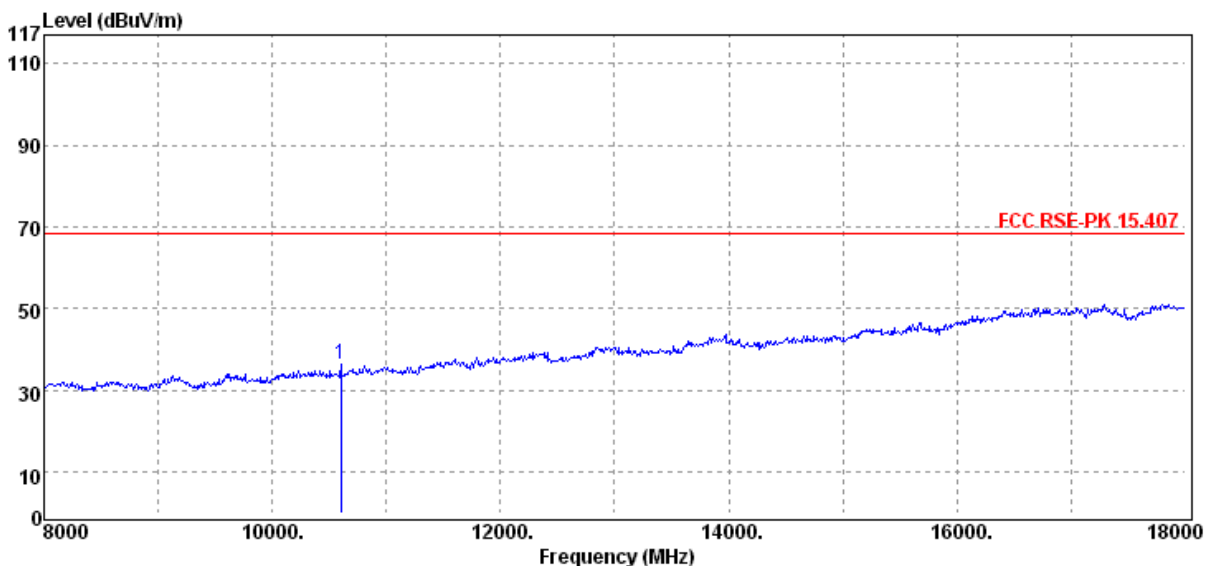
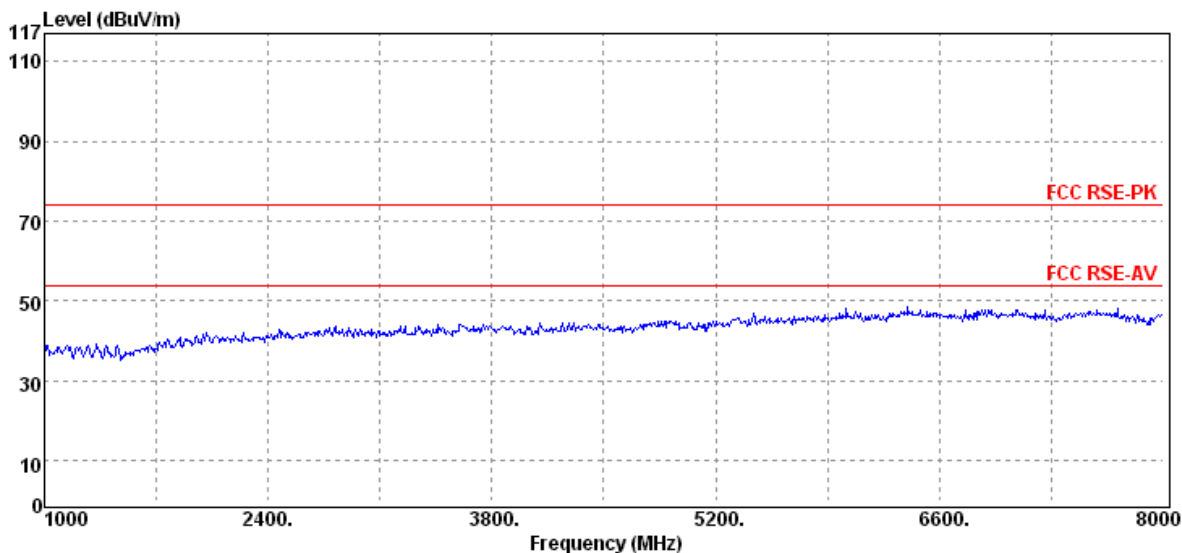
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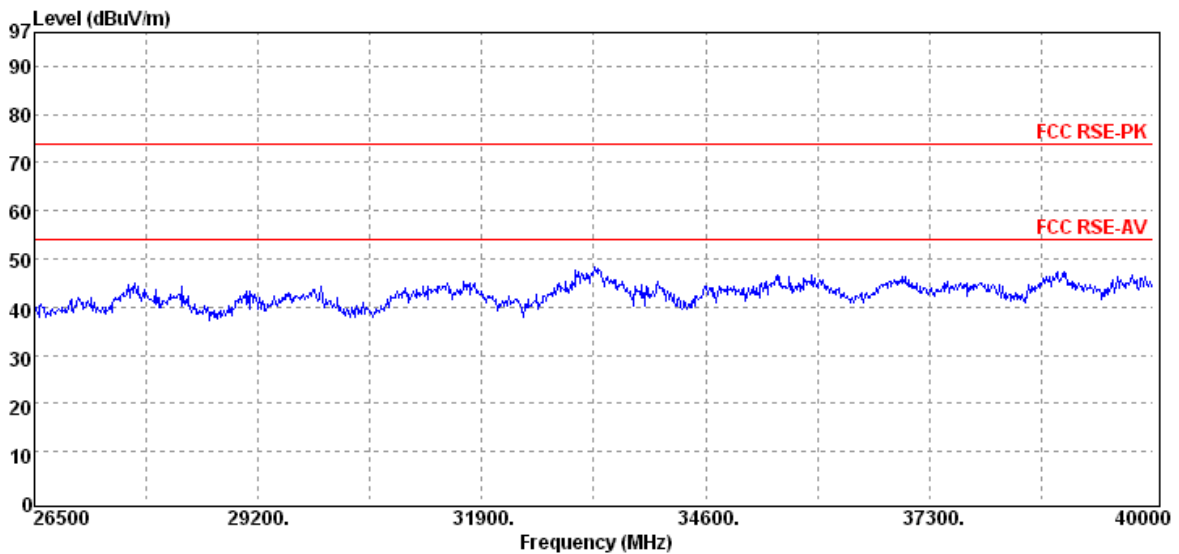
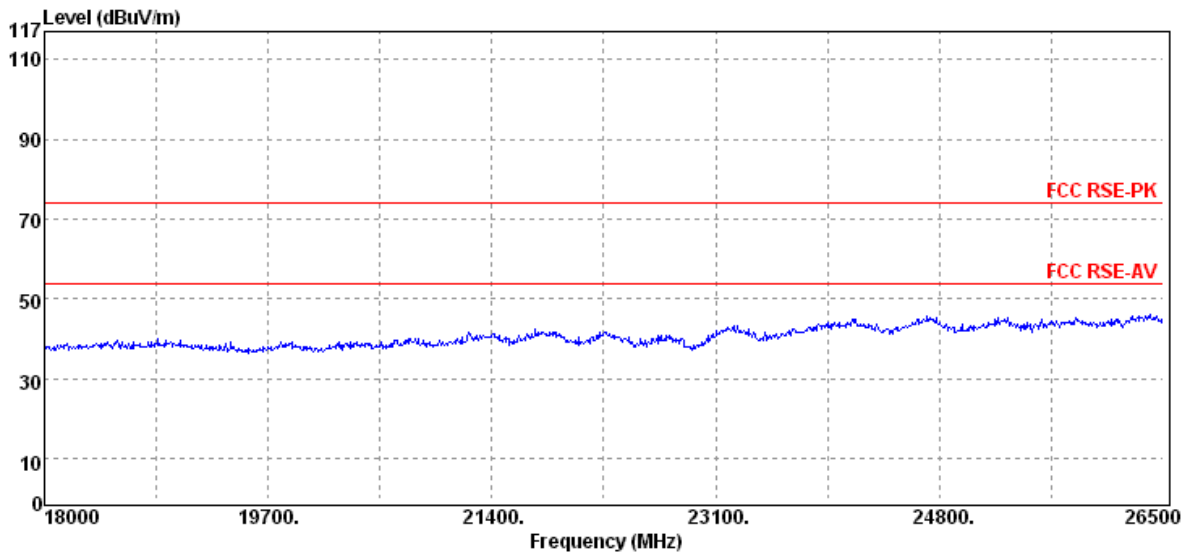
Operation Band	:802.11a 20M	Test Date	:2012-11-28
Fundamental Frequency	:5300 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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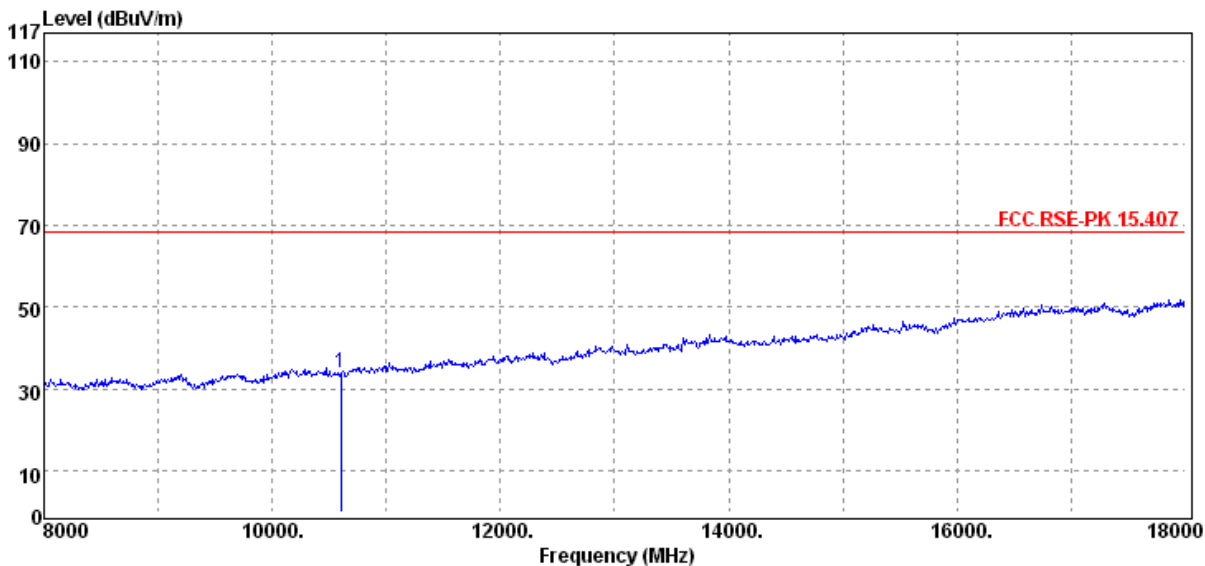
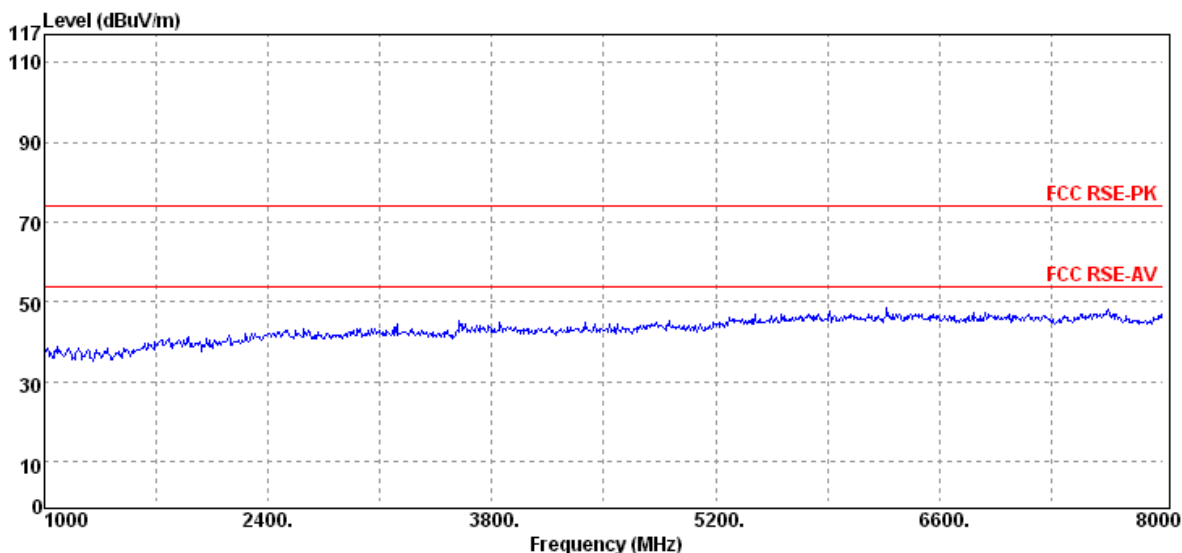
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Operation Band	:802.11a 20M	Test Date	:2012-11-28
Fundamental Frequency	:5300 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



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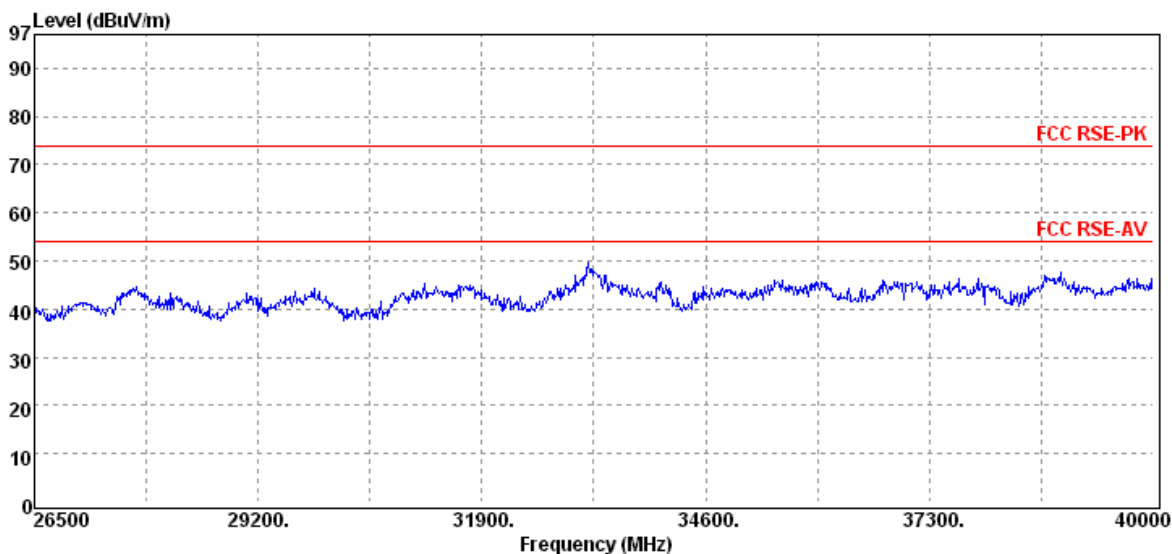
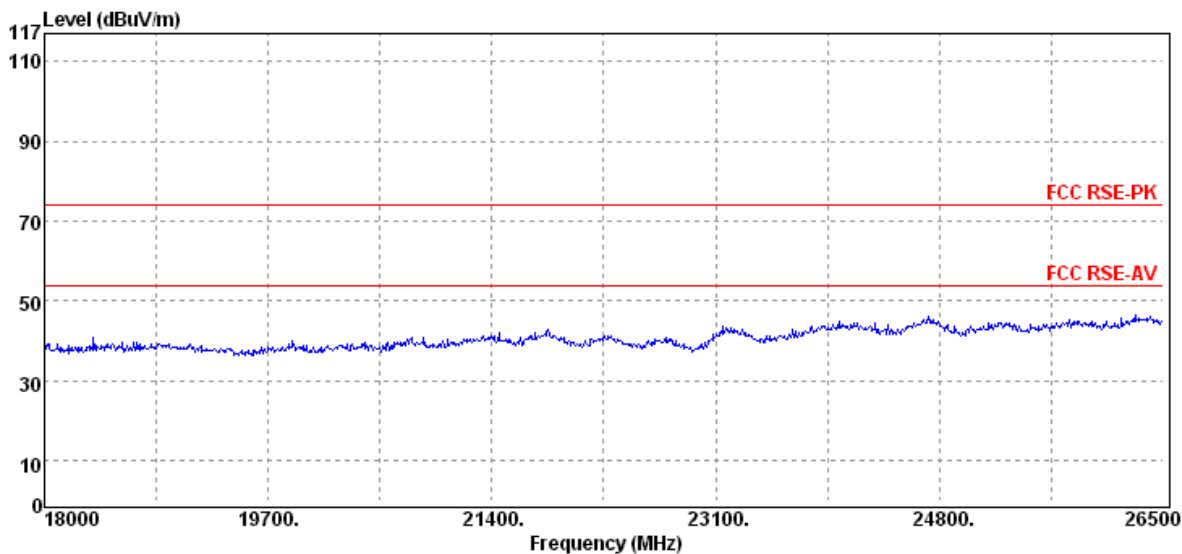
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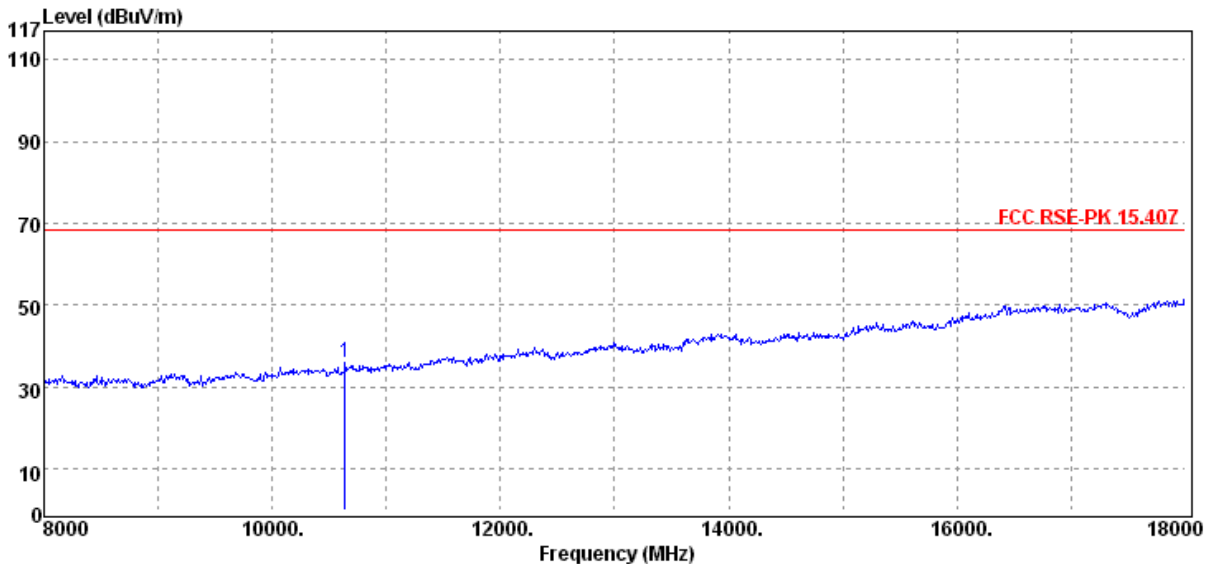
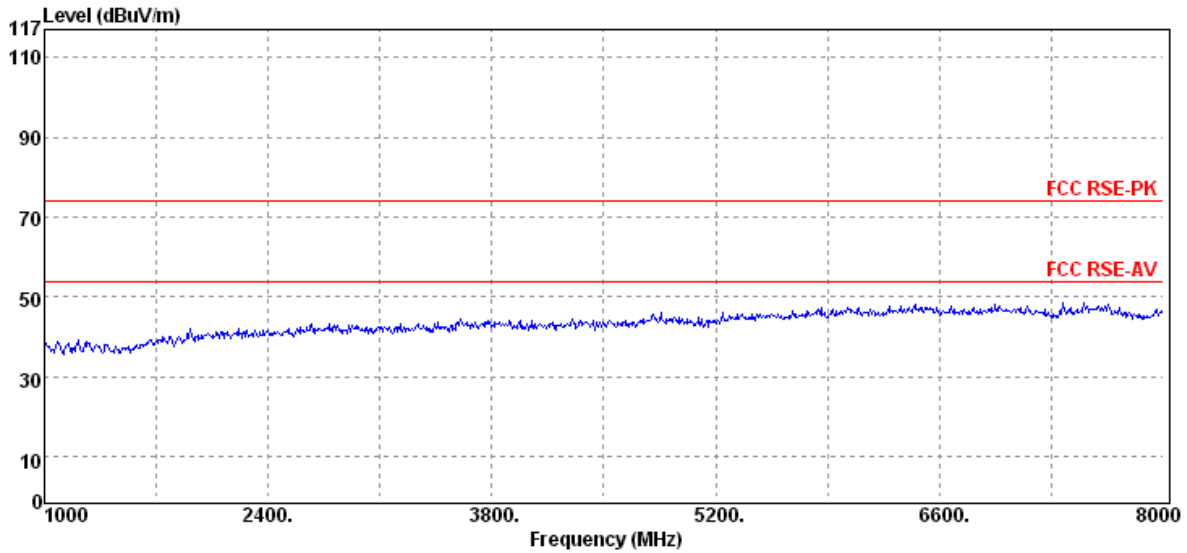
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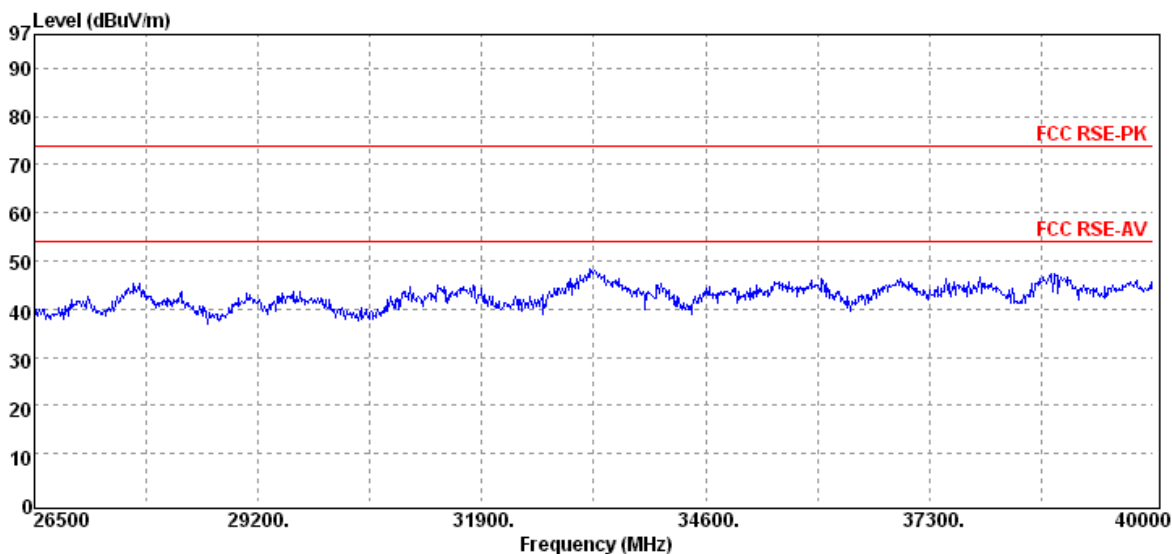
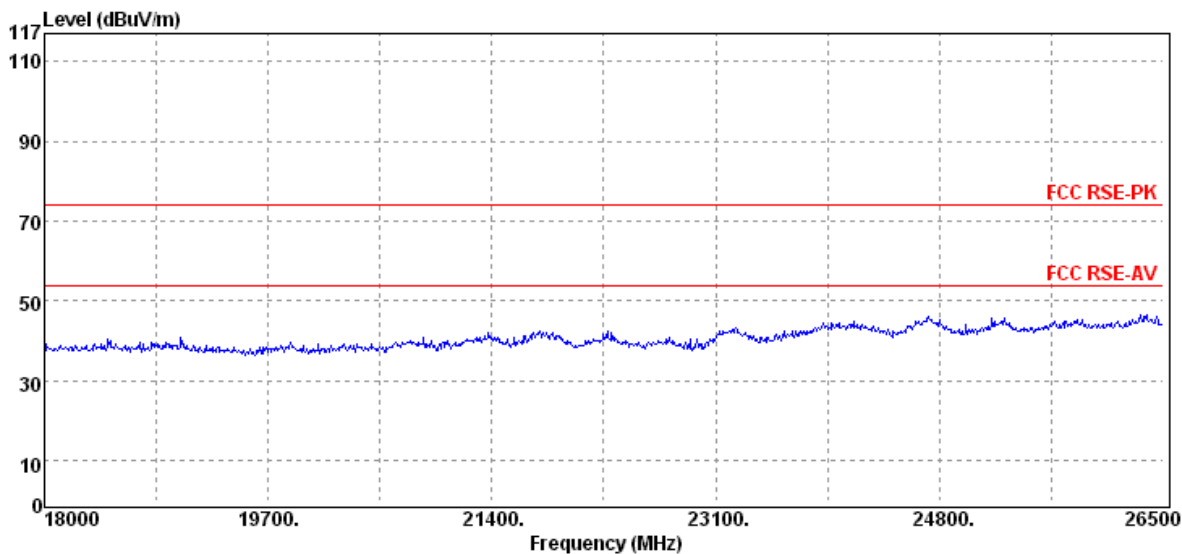
Operation Band	:802.11a 20M	Test Date	:2012-11-28
Fundamental Frequency	:5320 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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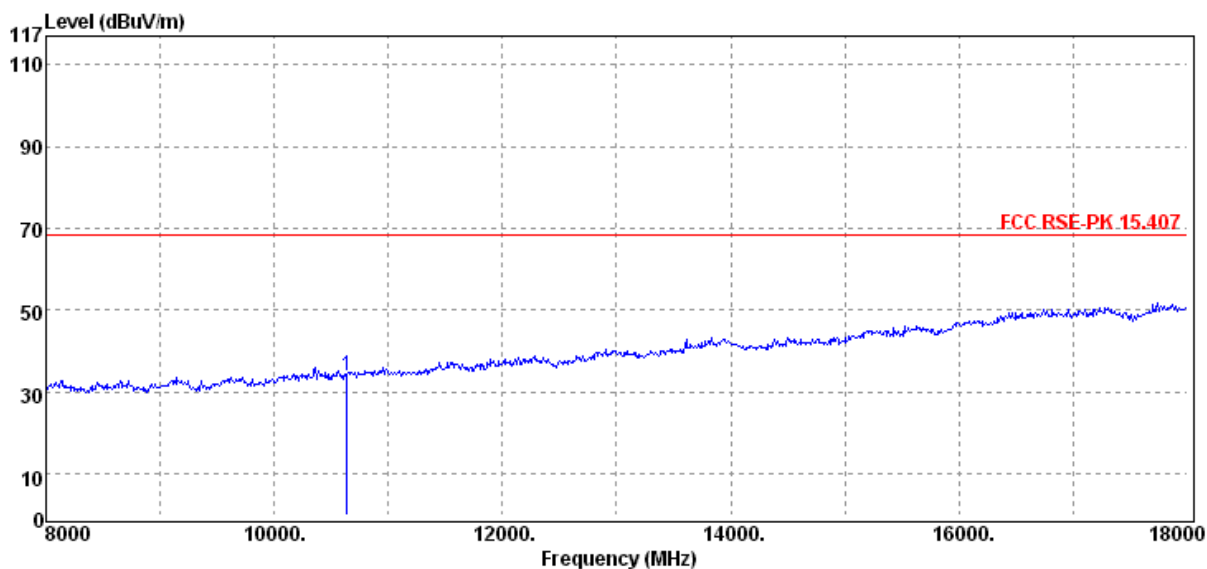
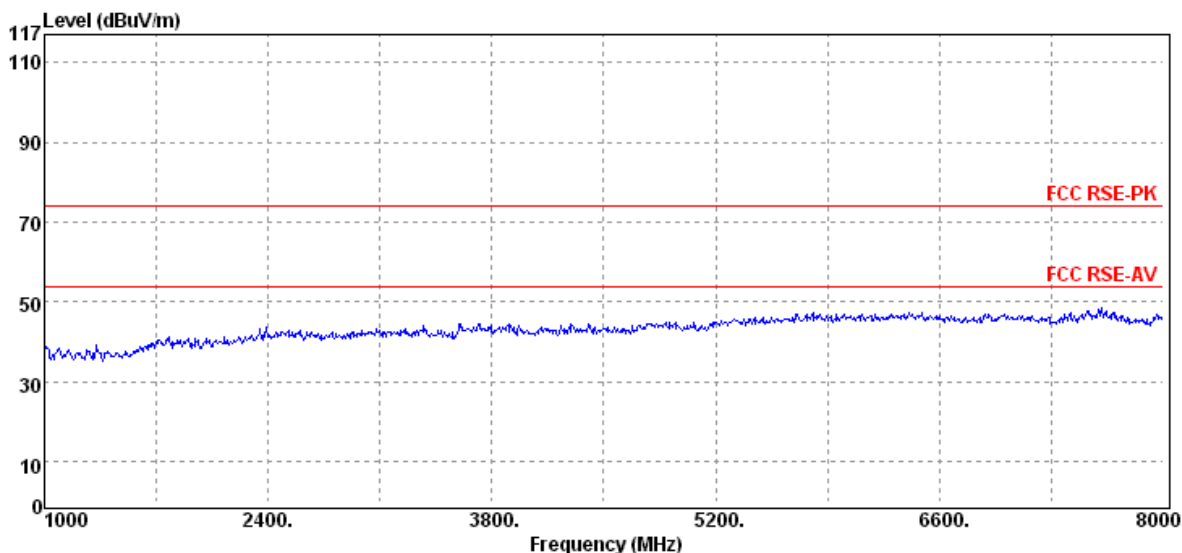
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Operation Band	:802.11a 20M	Test Date	:2012-11-28
Fundamental Frequency	:5320 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



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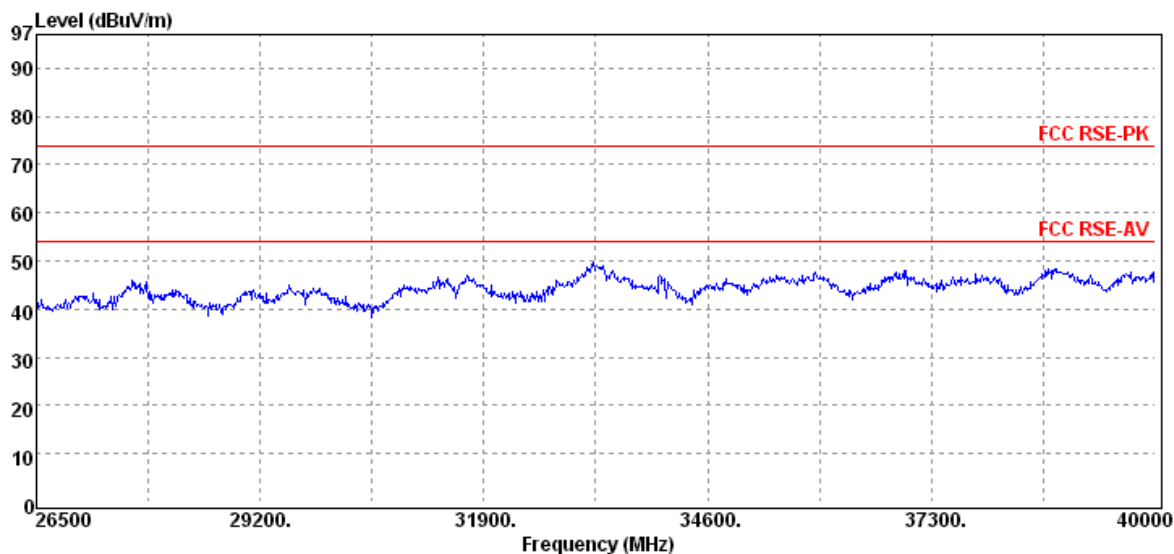
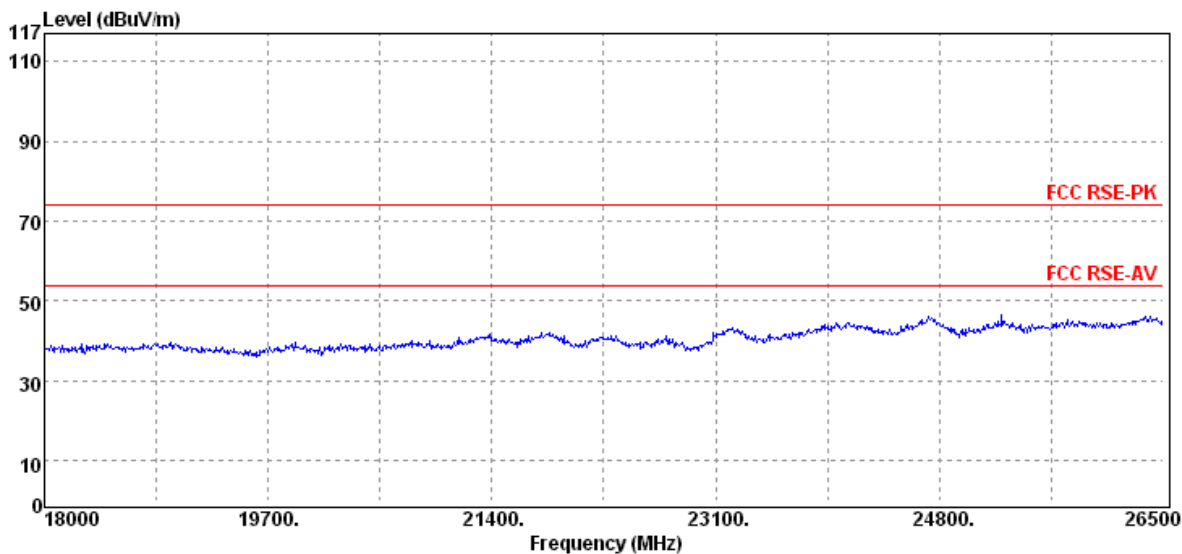
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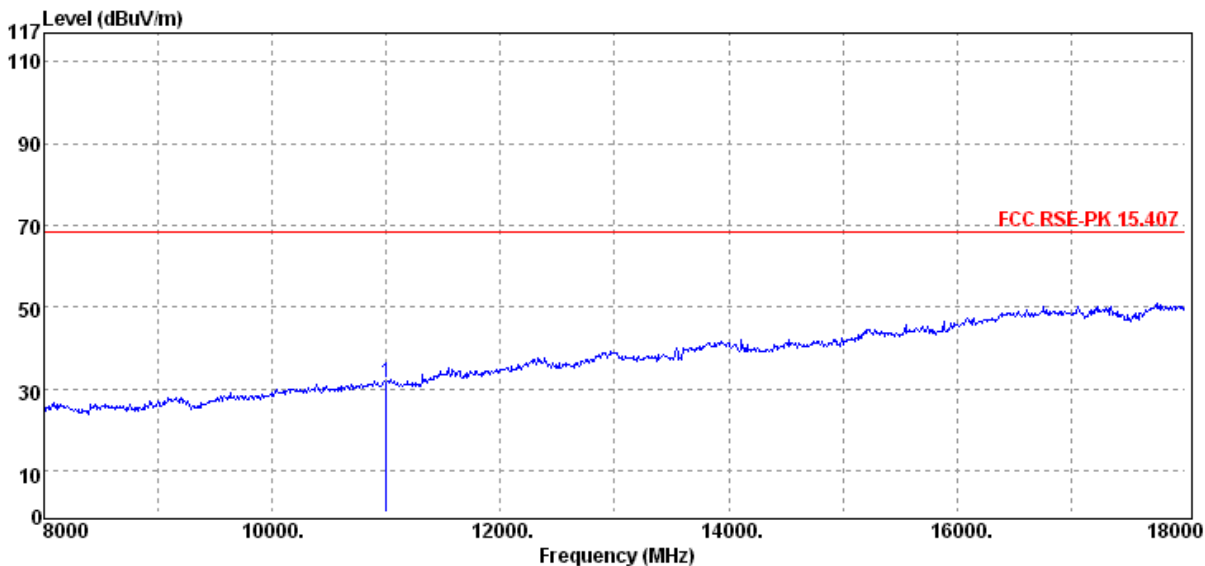
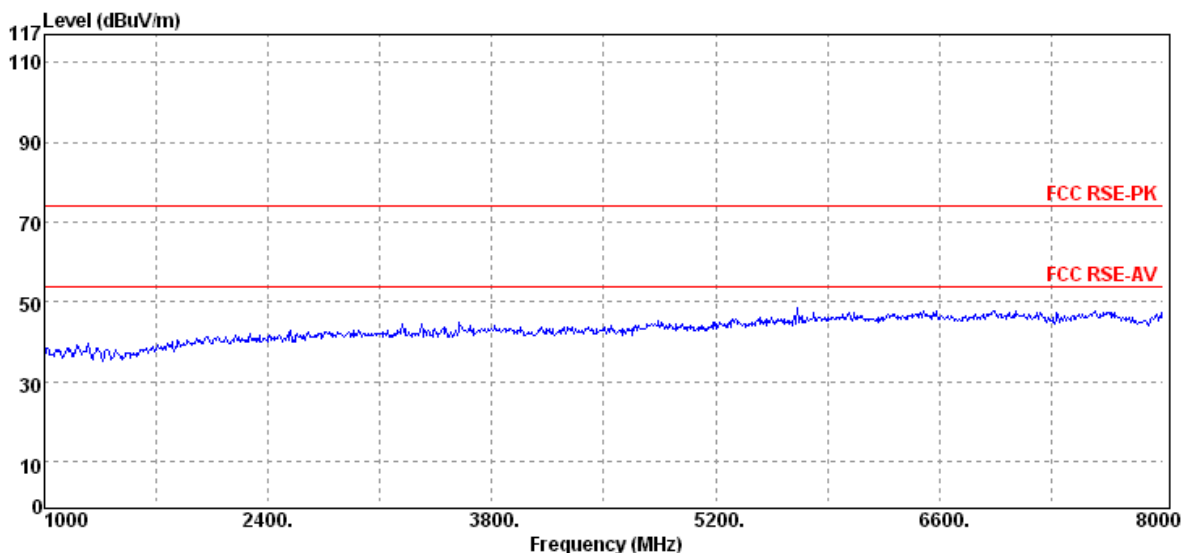
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**802.11n\_20MHz\_5470-5725MHz**

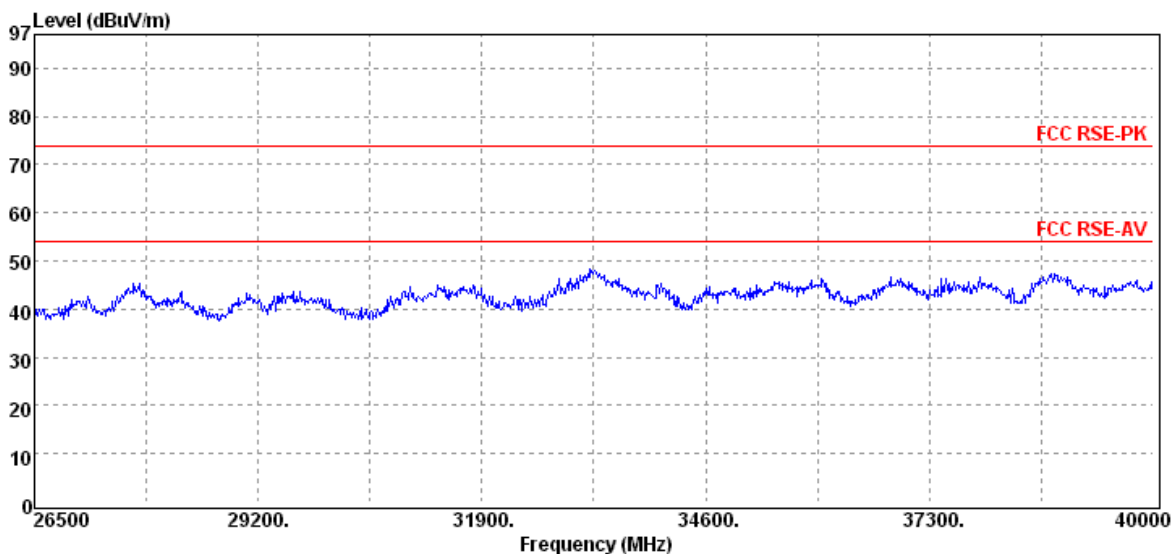
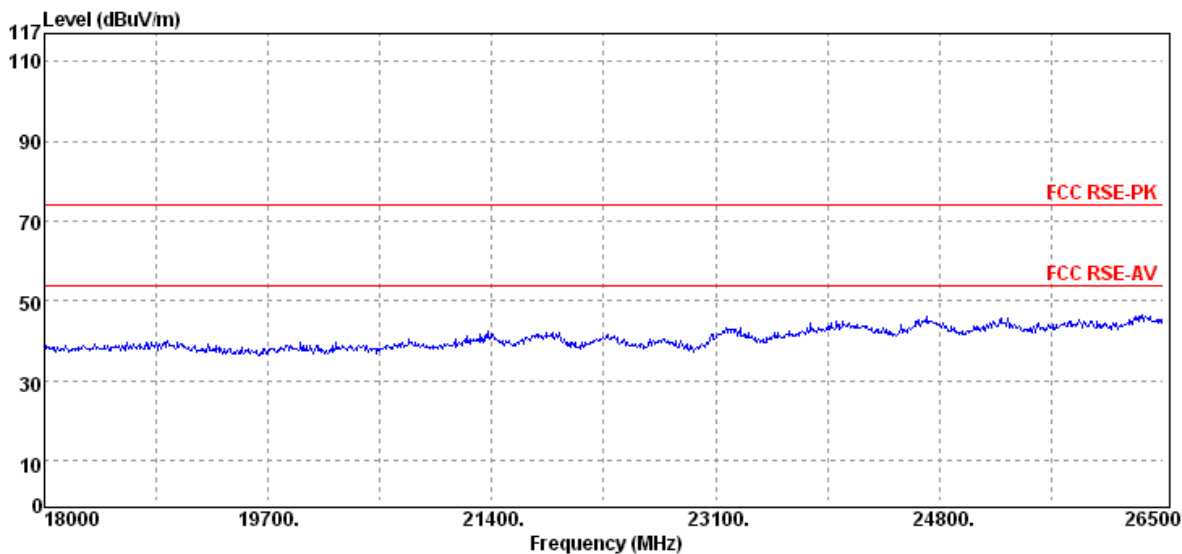
Operation Band	:802.11a 20M	Test Date	:2012-11-28
Fundamental Frequency	:5500 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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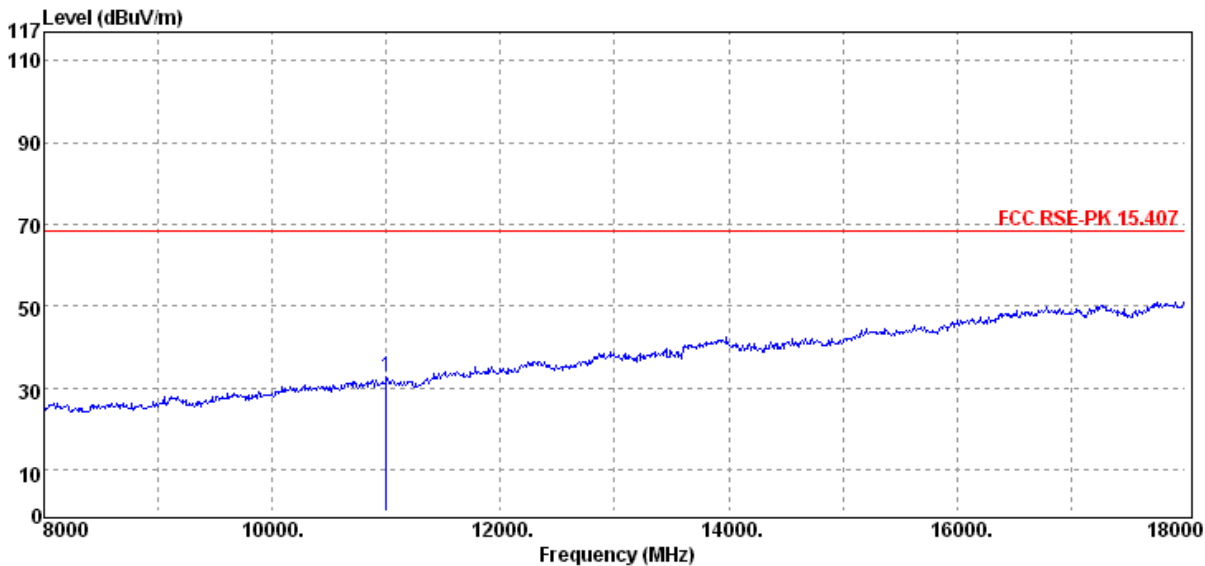
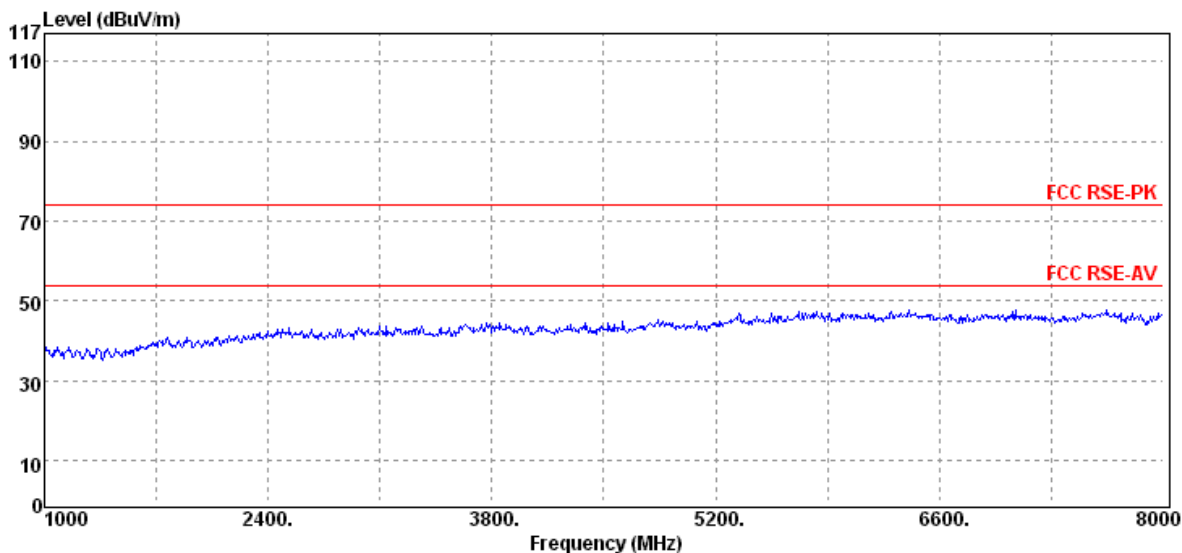
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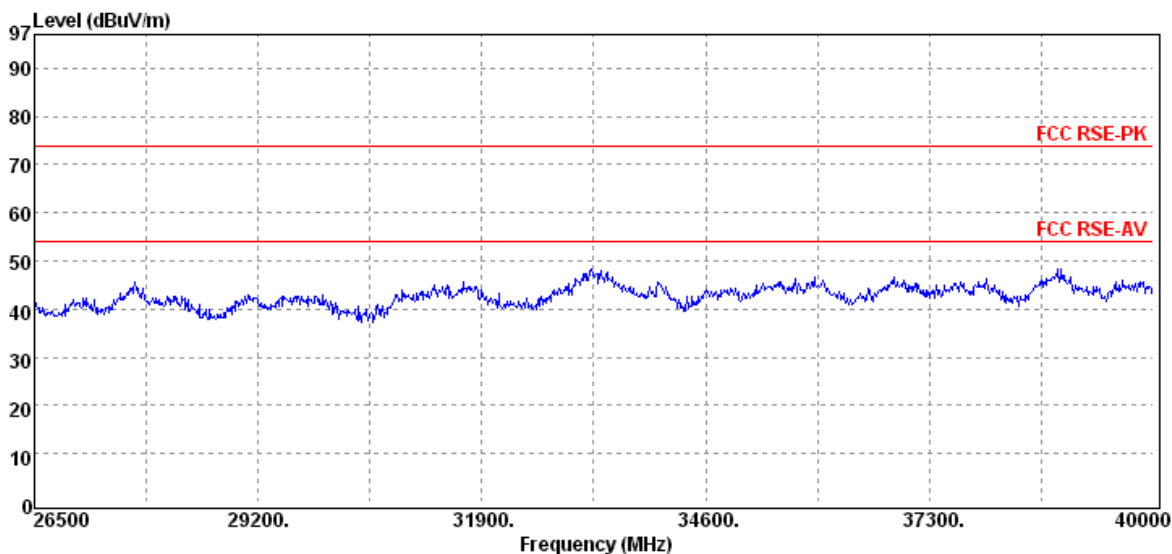
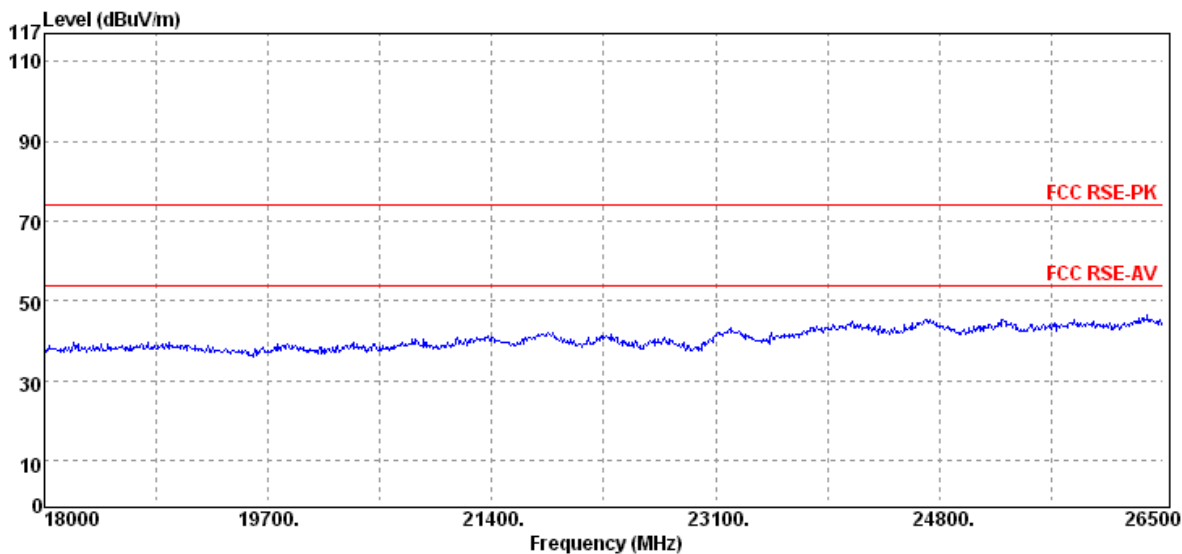
Operation Band	:802.11a 20M	Test Date	:2012-11-28
Fundamental Frequency	:5500 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



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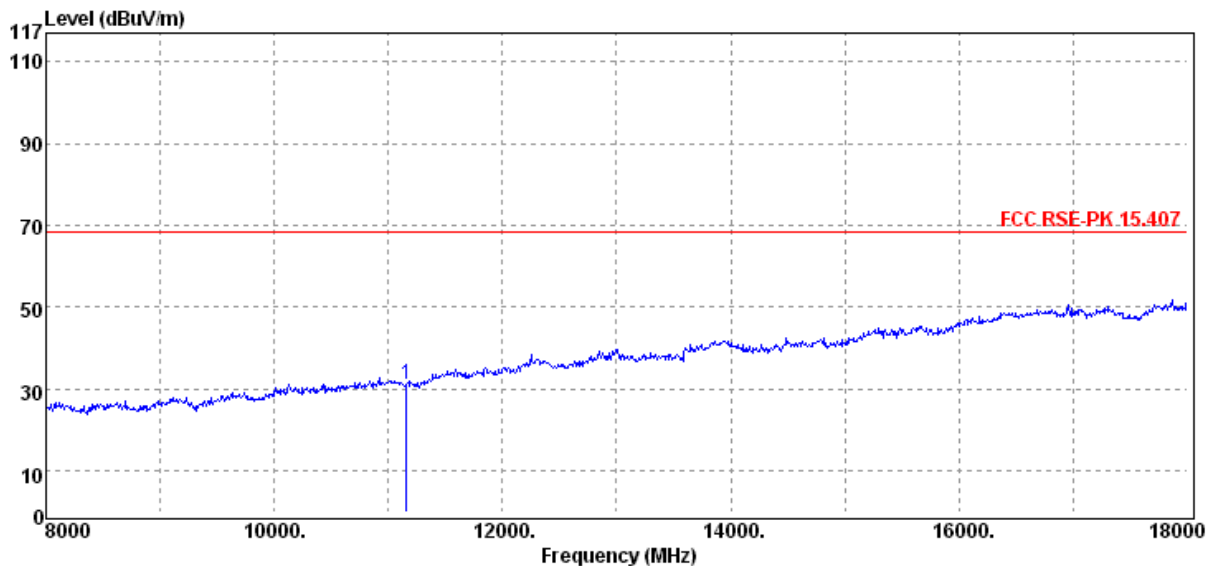
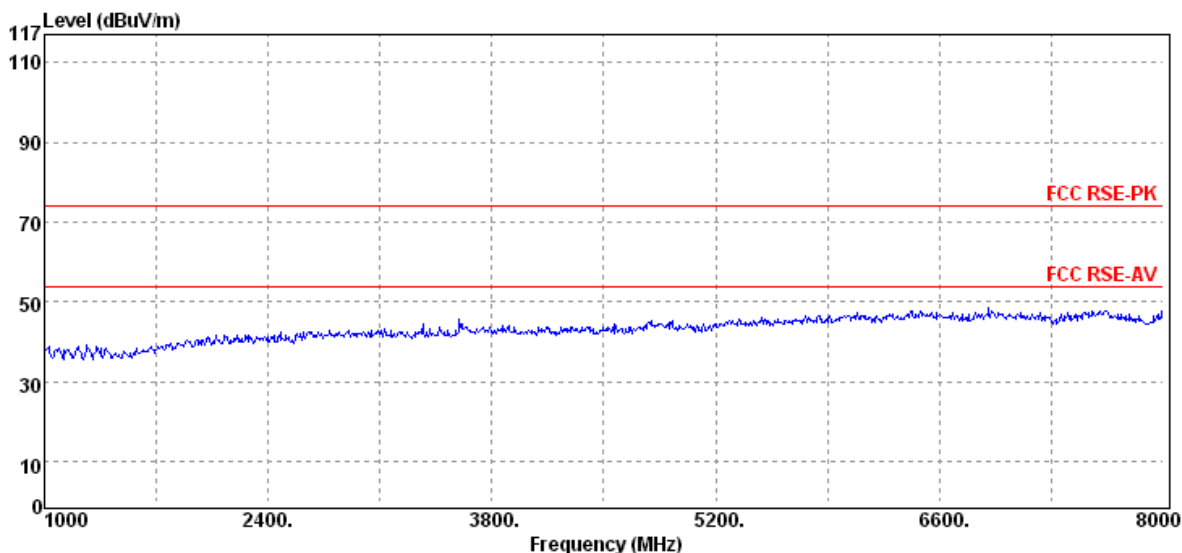
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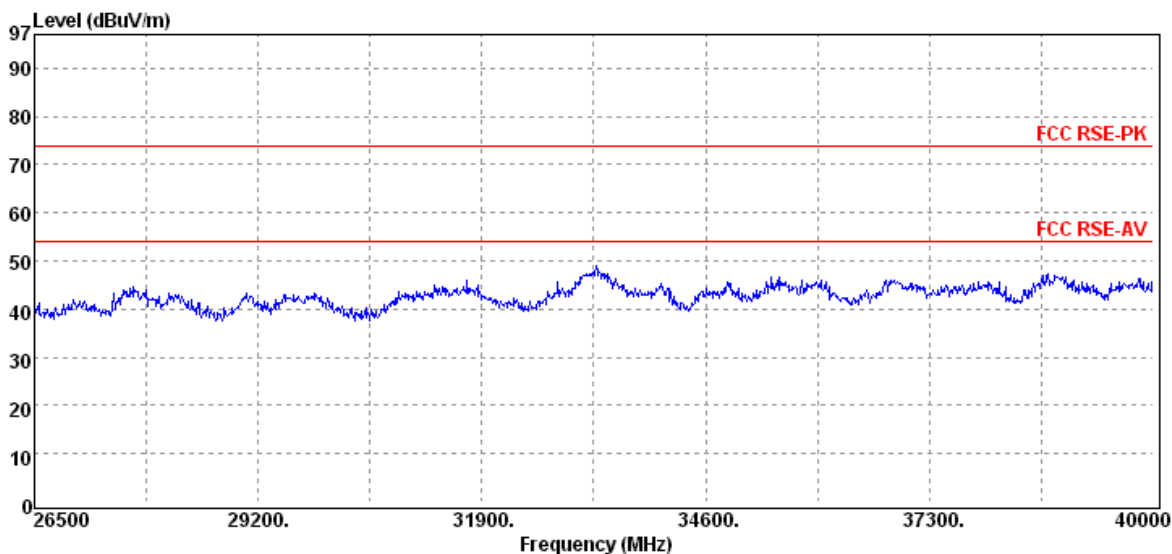
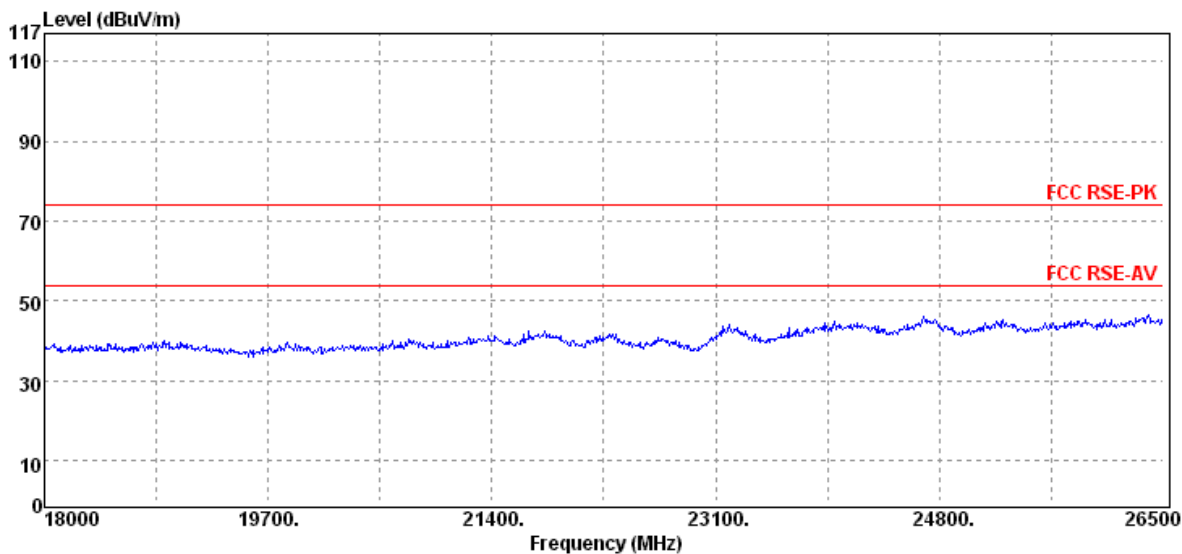
Operation Band	:802.11a 20M	Test Date	:2012-11-28
Fundamental Frequency	:5580 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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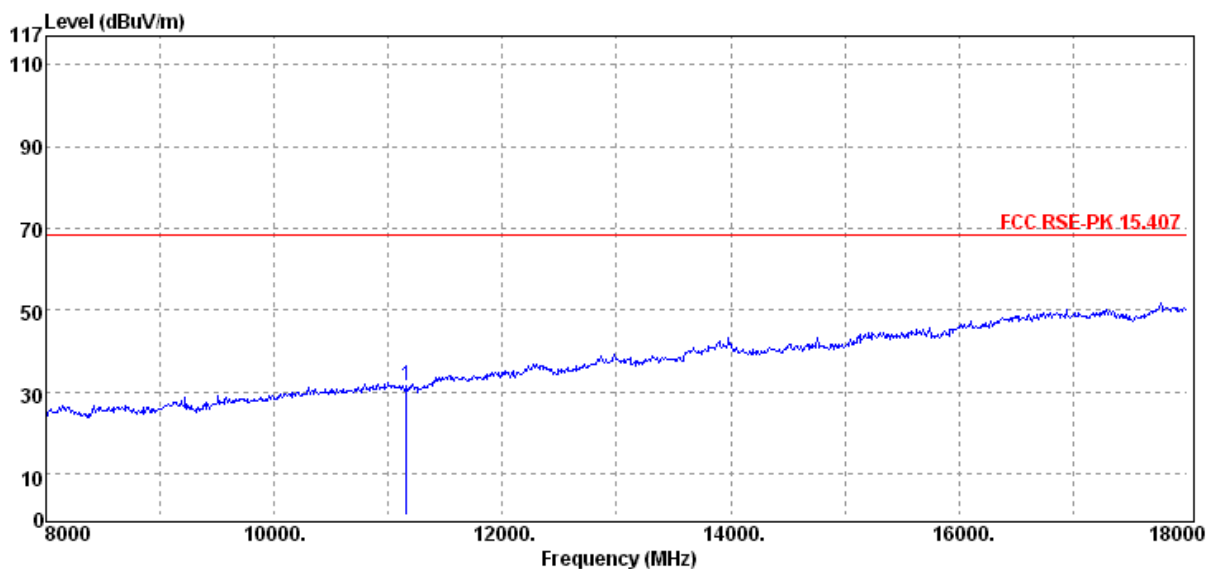
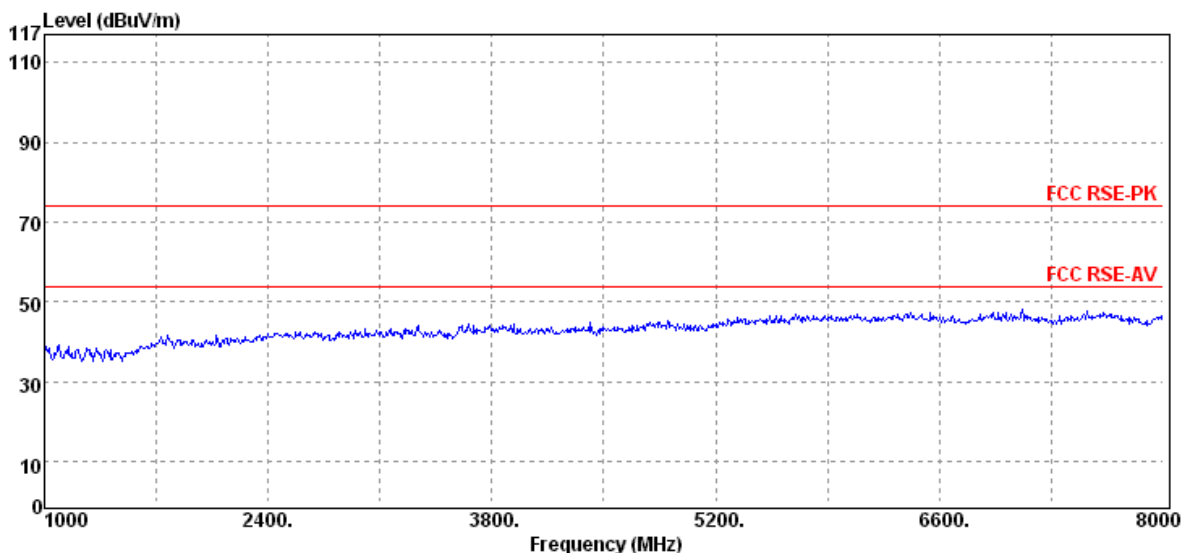
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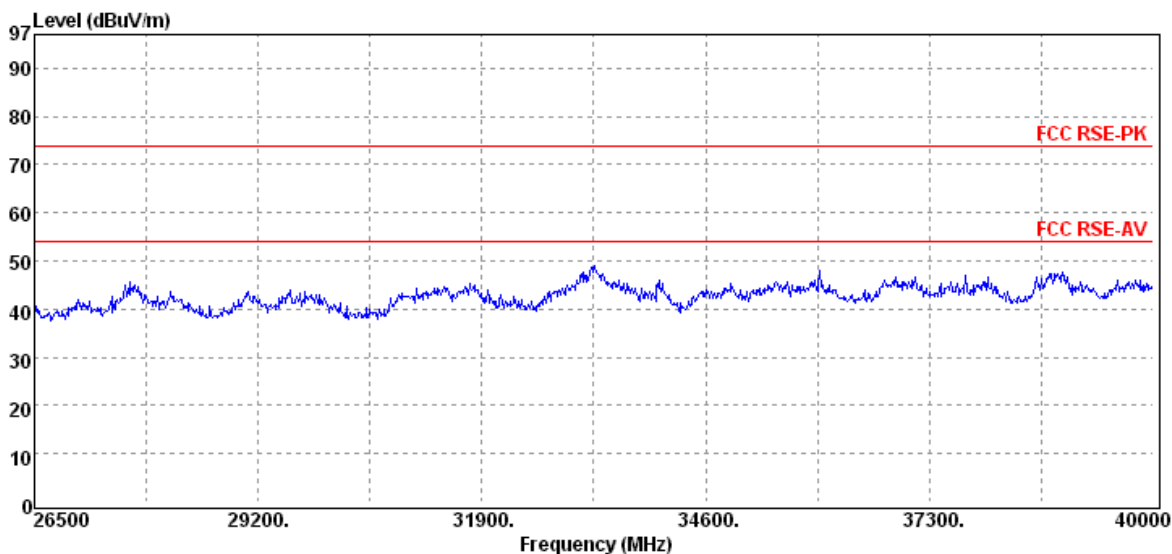
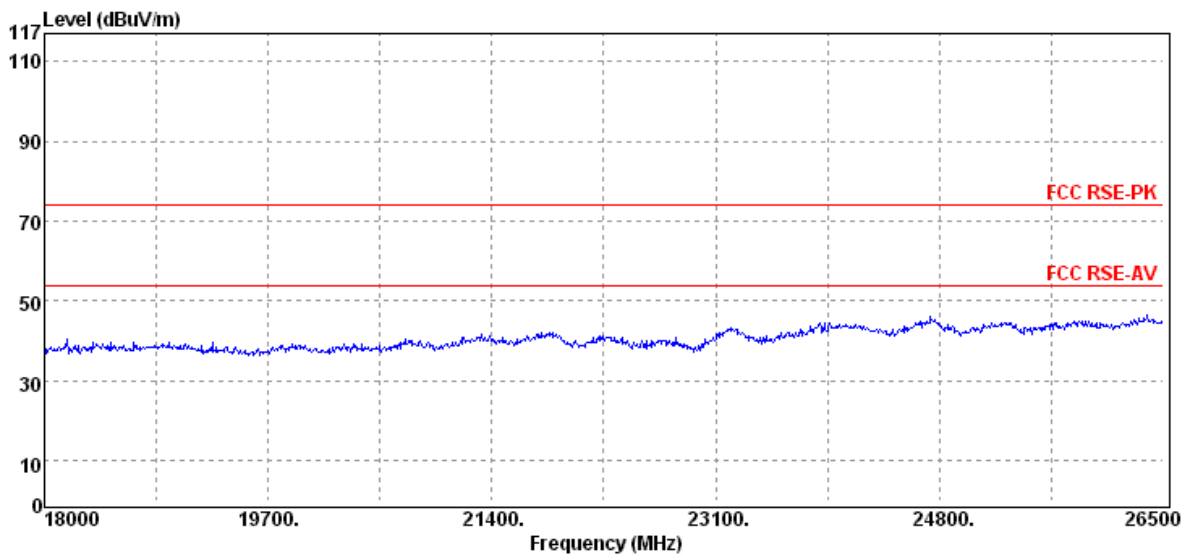
Operation Band	:802.11a 20M	Test Date	:2012-11-28
Fundamental Frequency	:5580 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



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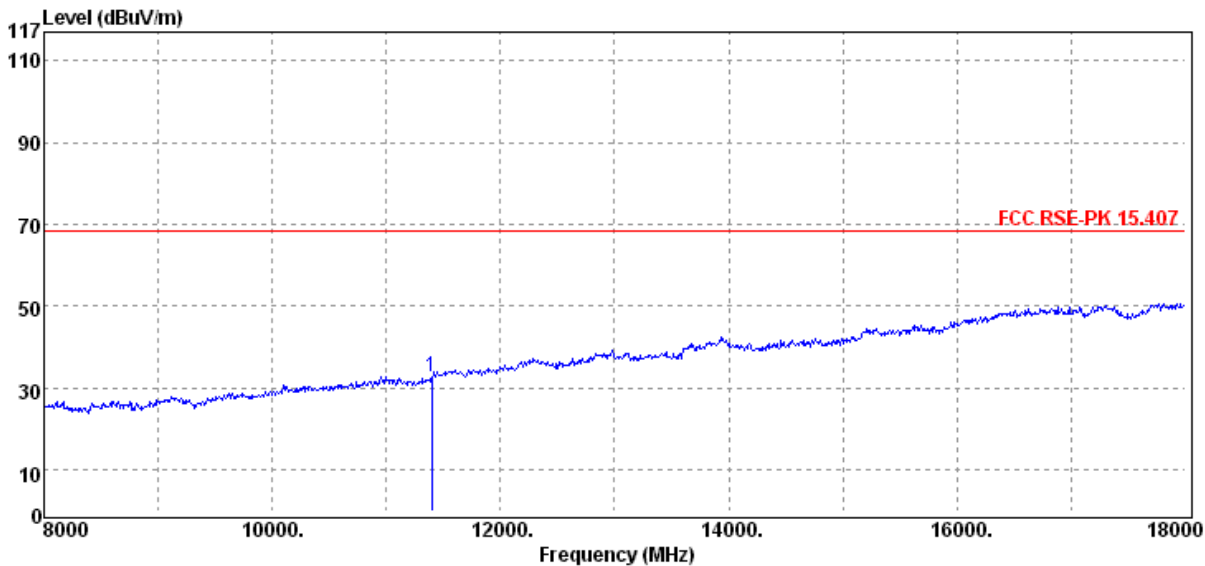
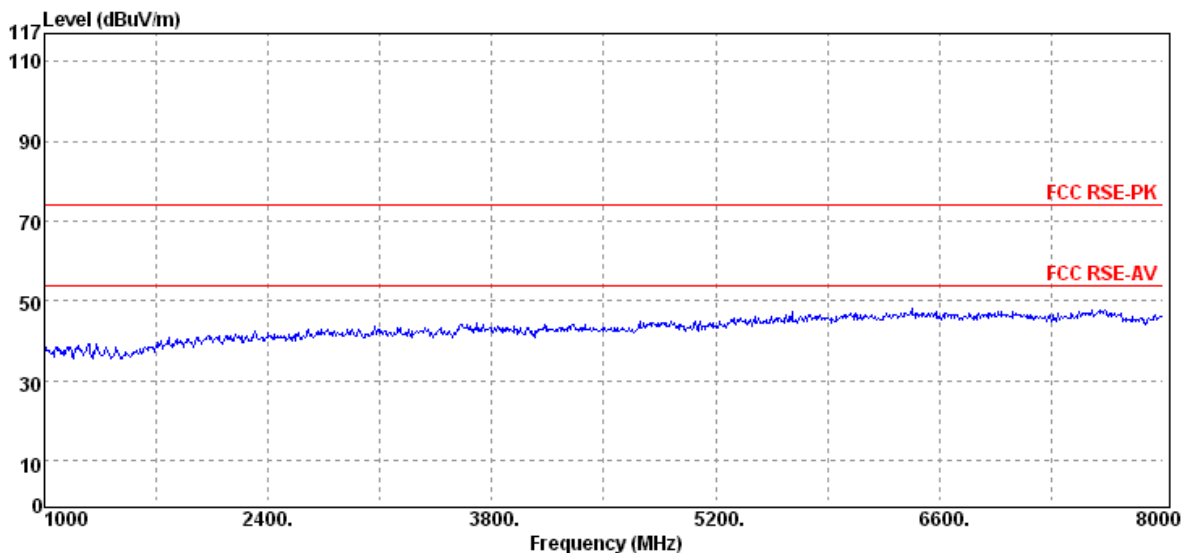
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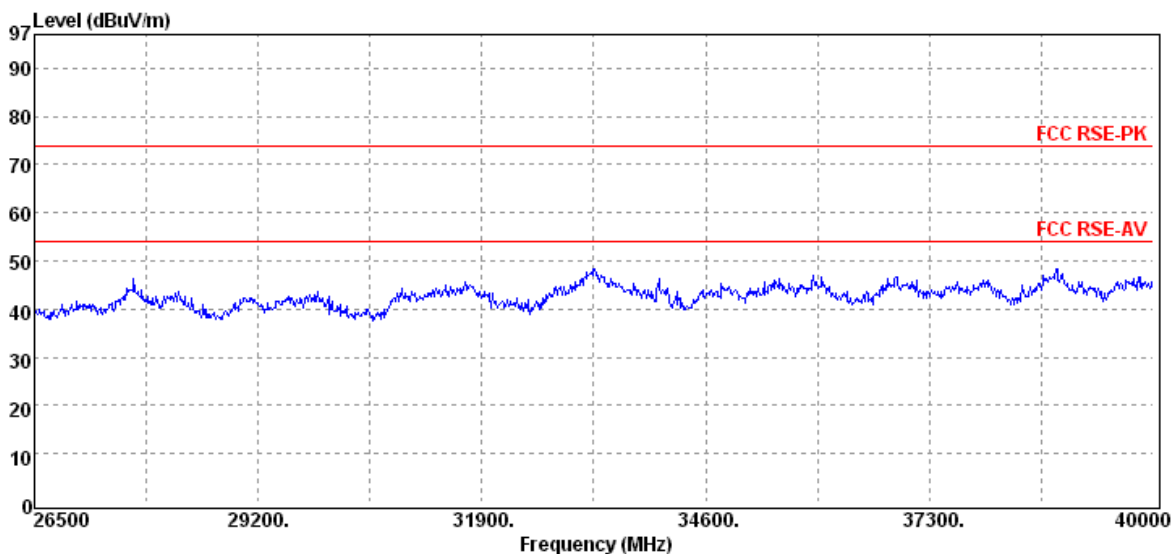
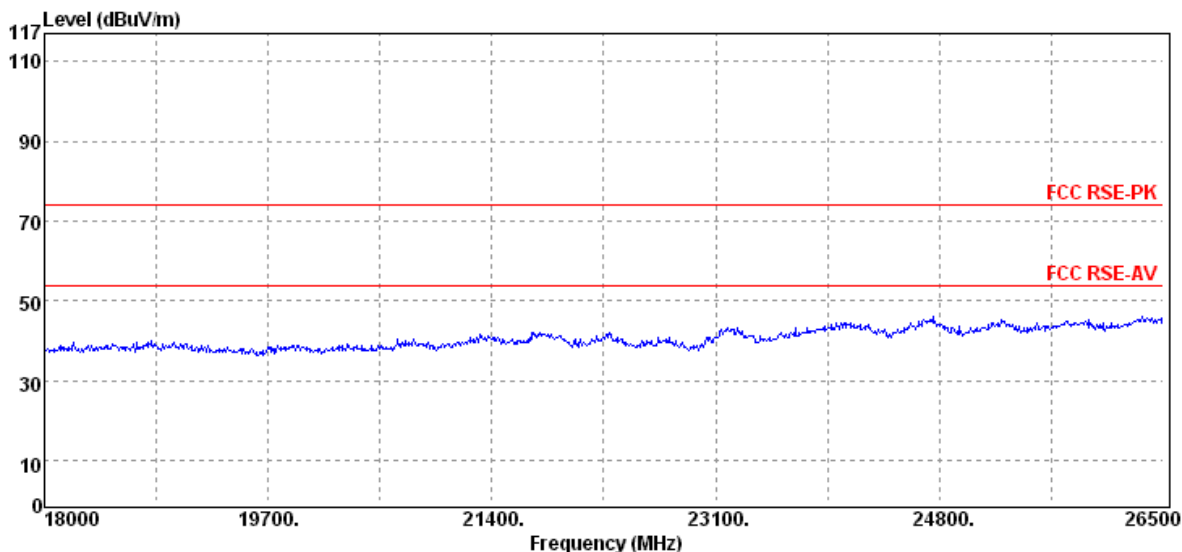
Operation Band	:802.11a 20M	Test Date	:2012-11-28
Fundamental Frequency	:5700 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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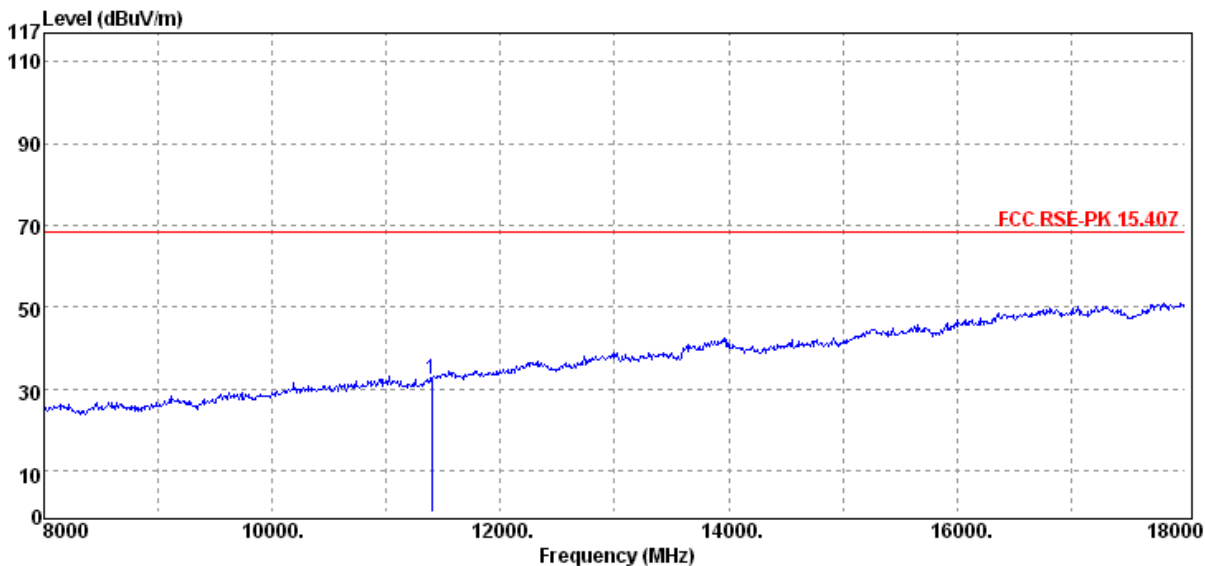
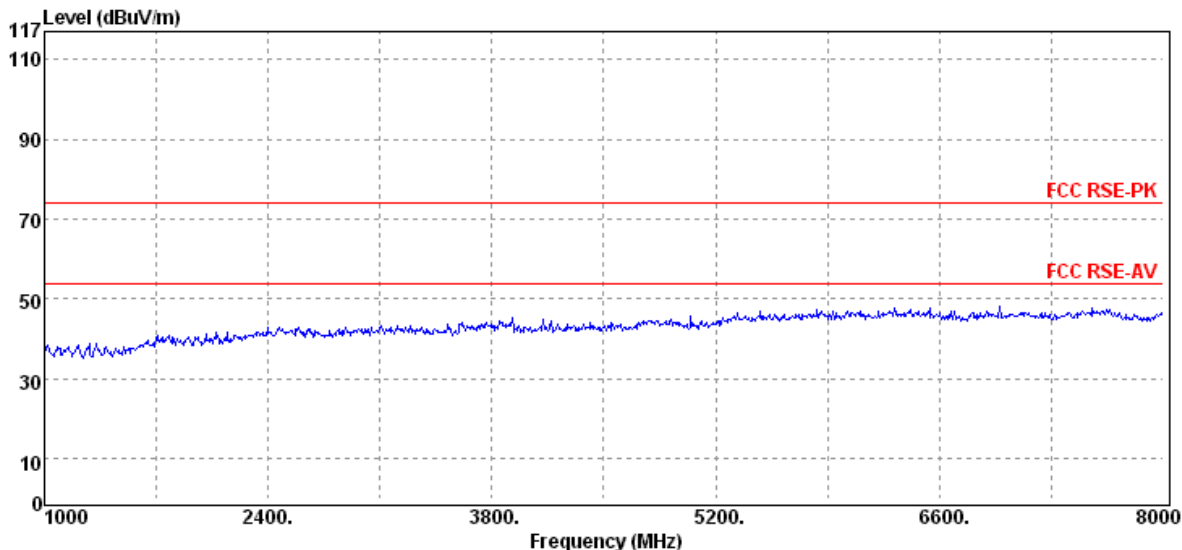
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Operation Band	:802.11a 20M	Test Date	:2012-11-28
Fundamental Frequency	:5700 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



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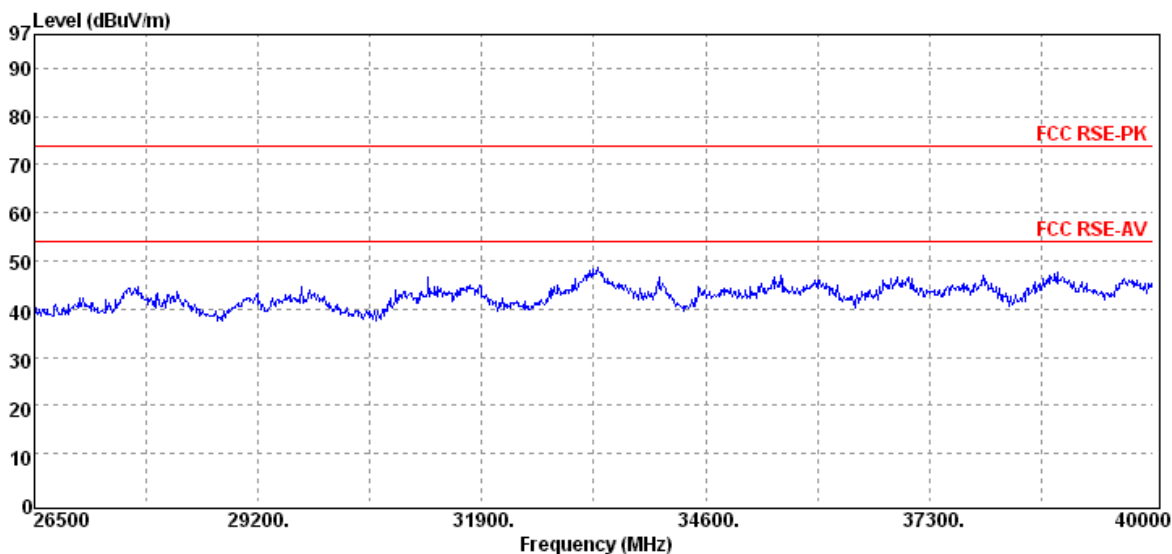
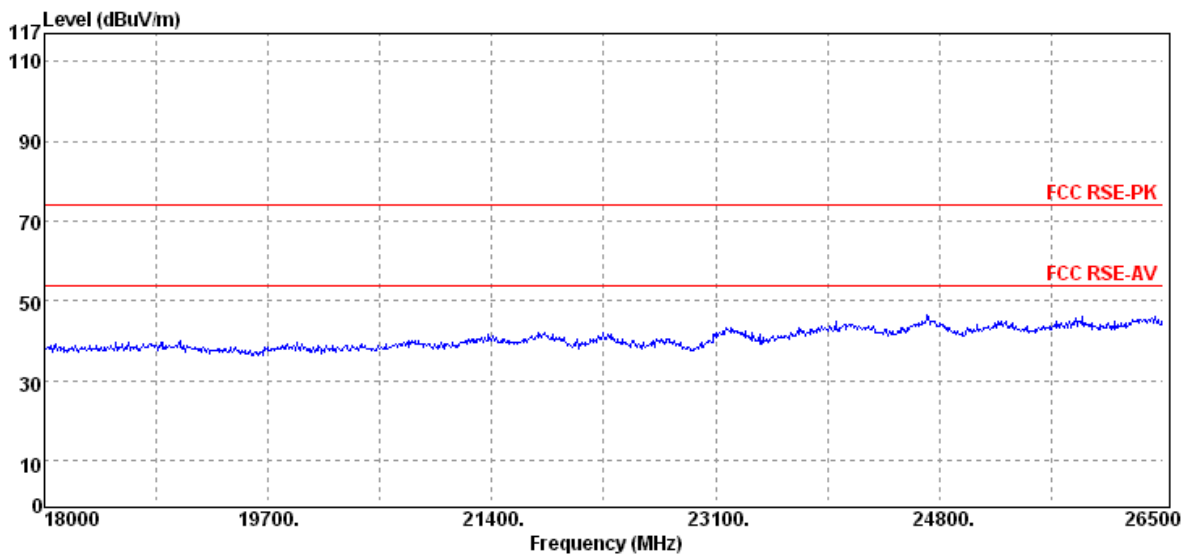
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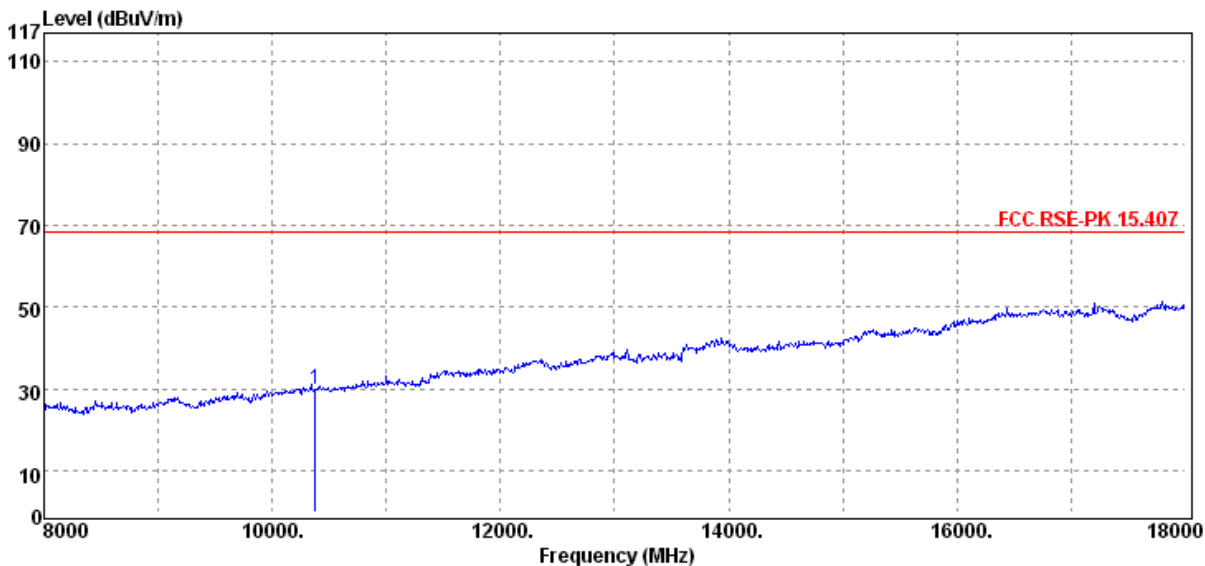
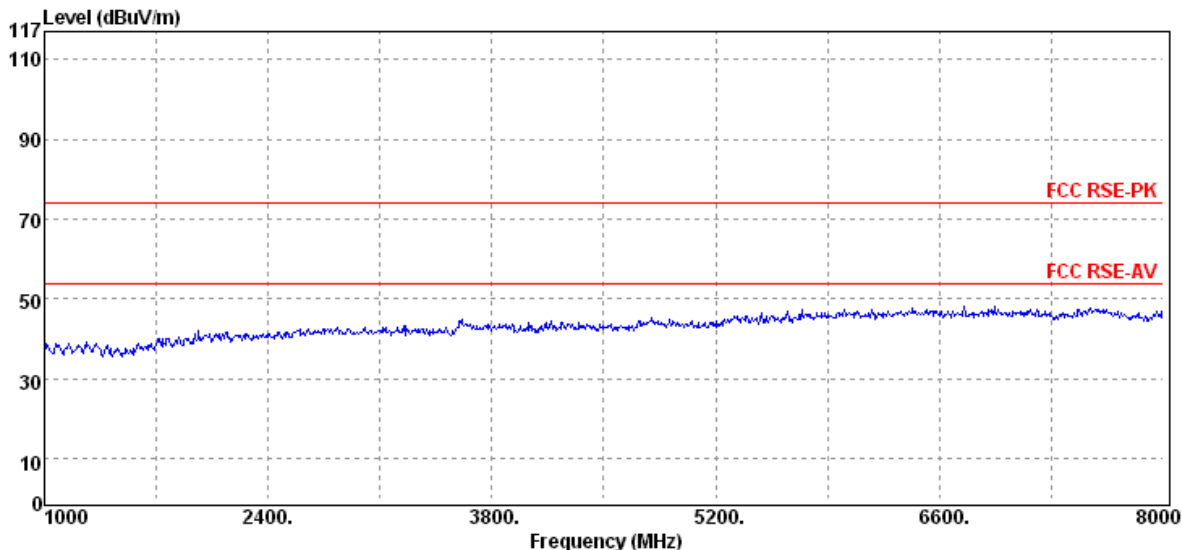
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**802.11n\_40MHz\_5150-5250MHz**

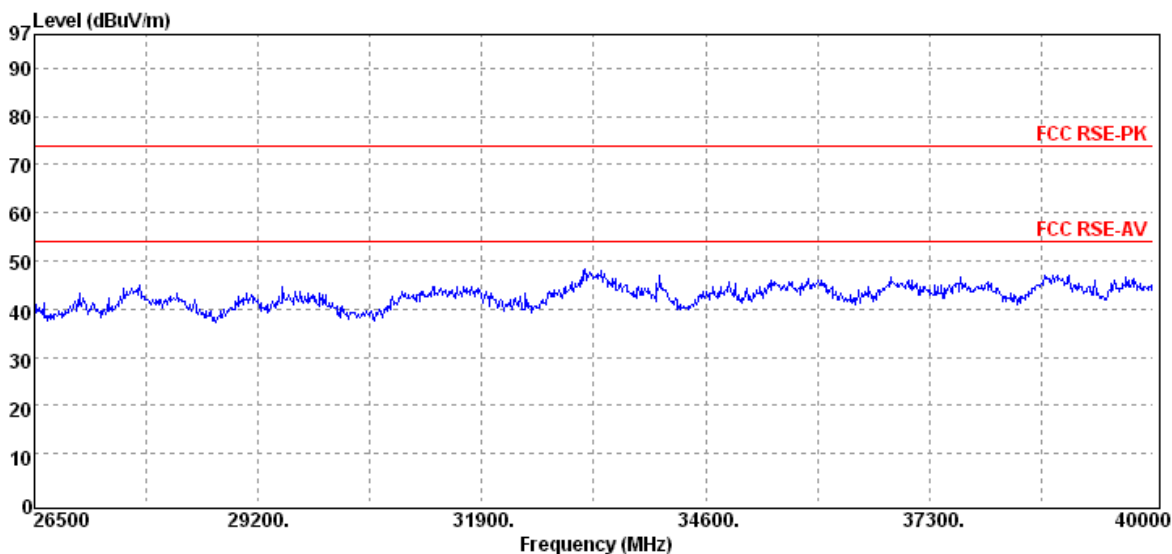
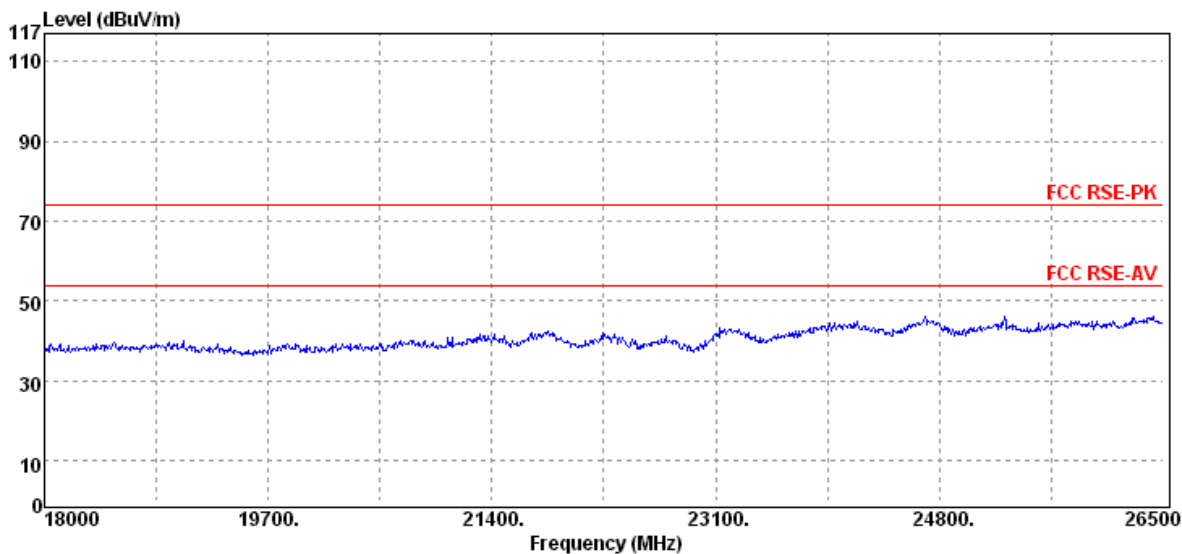
Operation Band	:802.11n 40M	Test Date	:2012-11-28
Fundamental Frequency	:5190 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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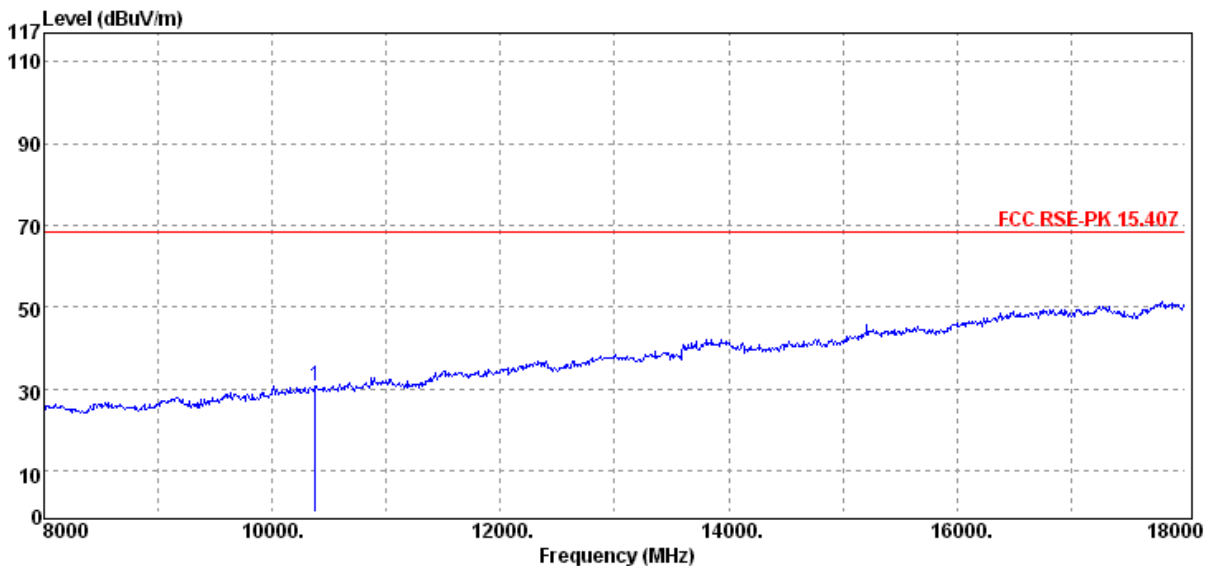
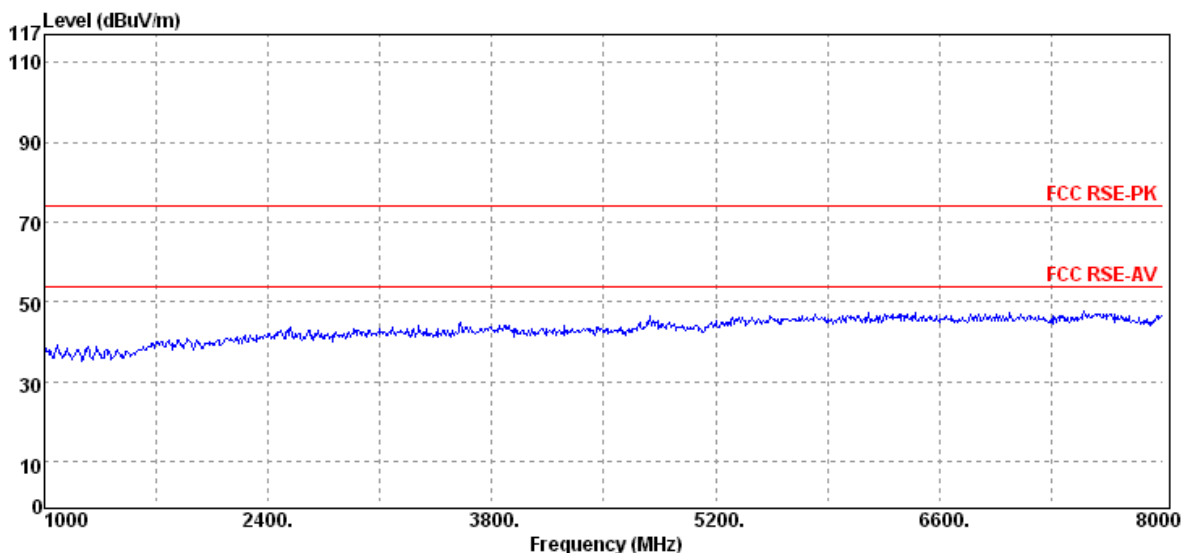
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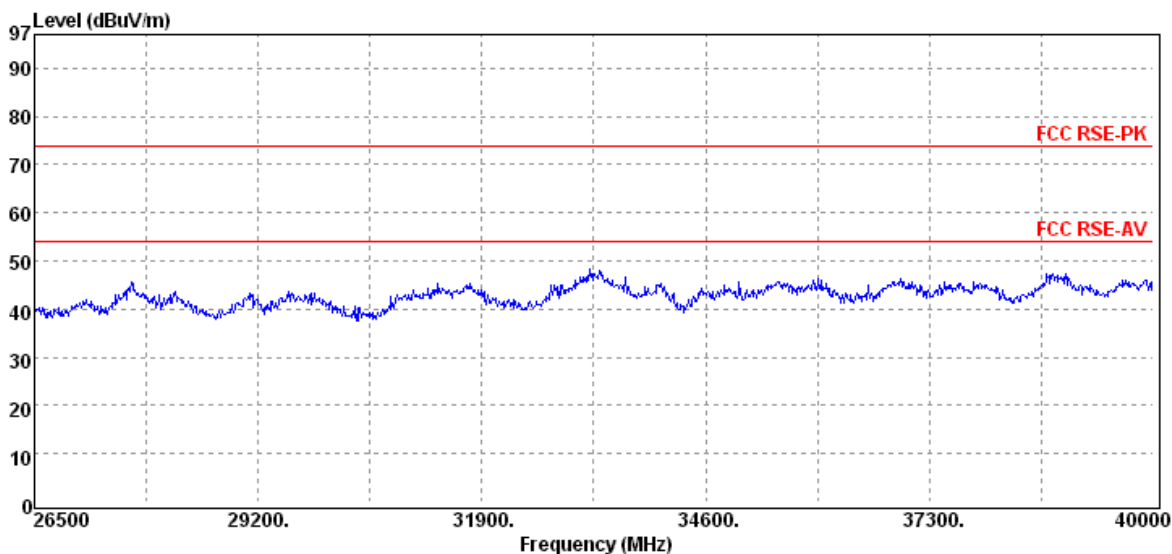
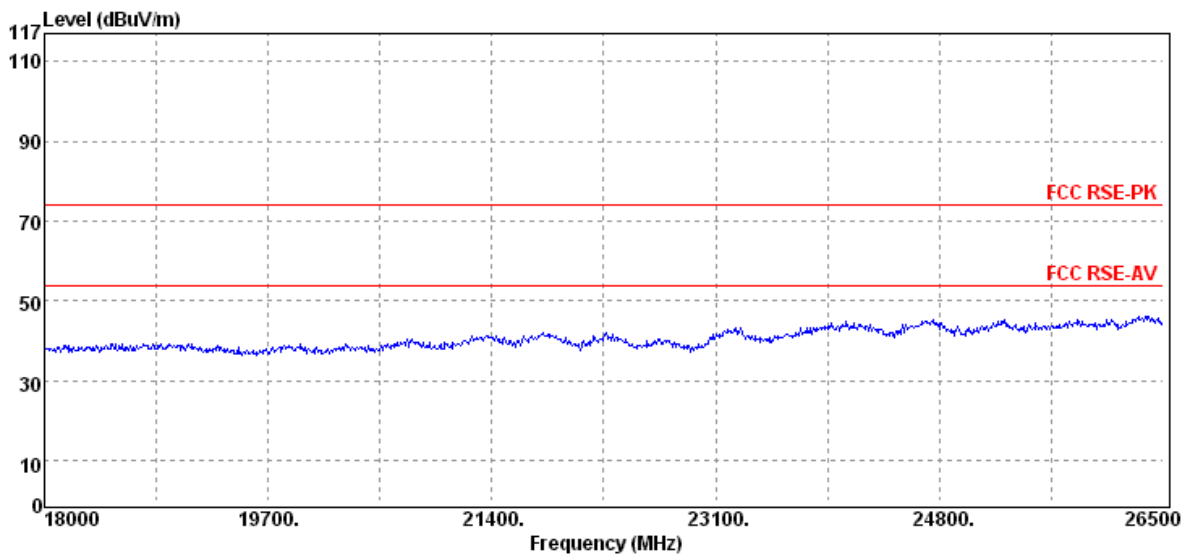
Operation Band	:802.11n 40M	Test Date	:2012-11-28
Fundamental Frequency	:5190 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



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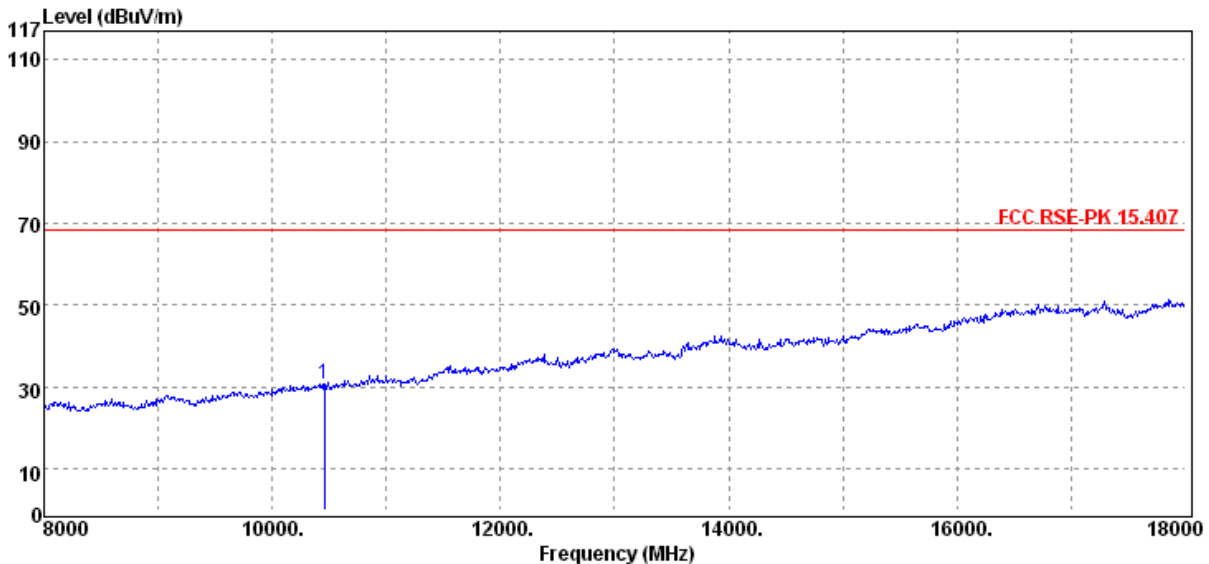
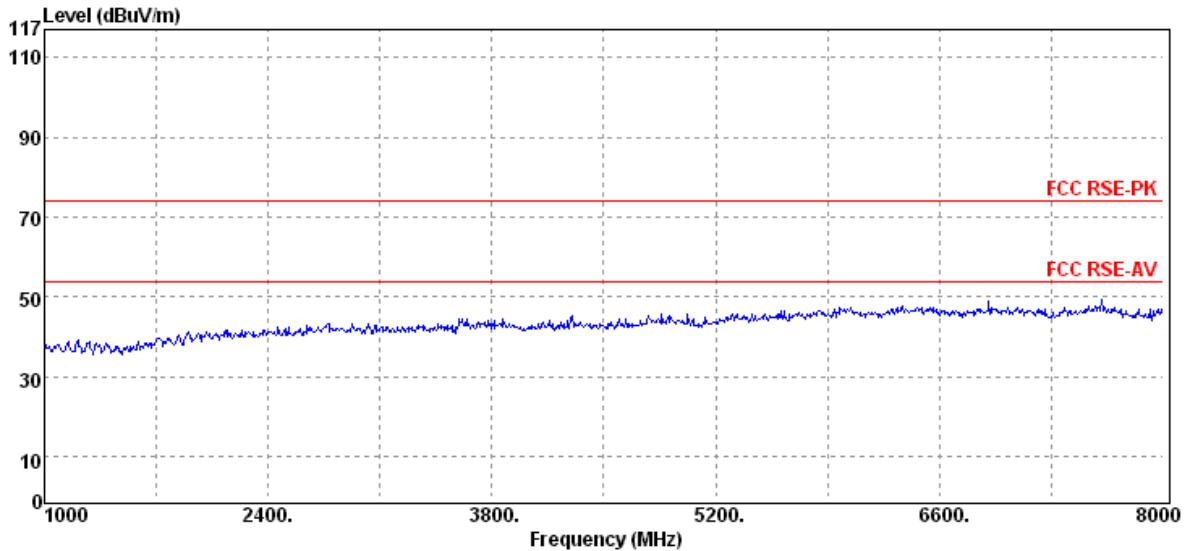
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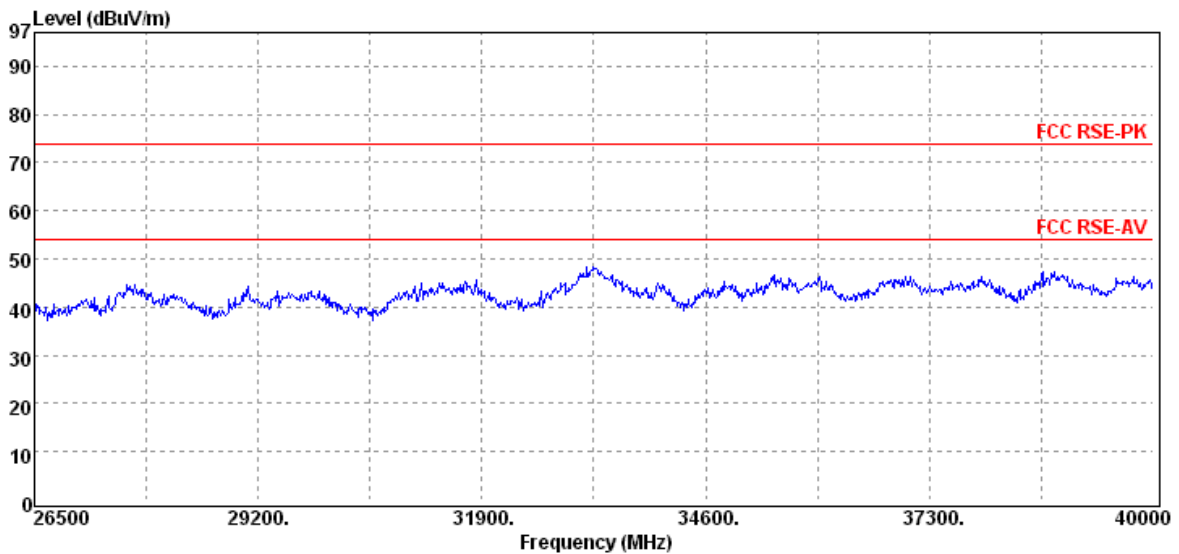
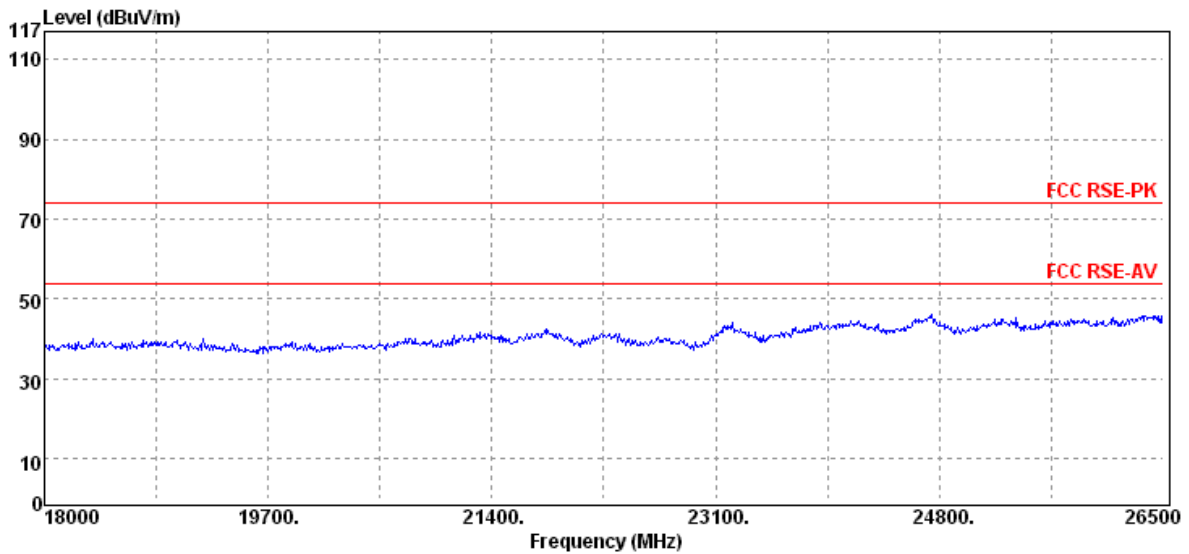
Operation Band	:802.11n 40M	Test Date	:2012-11-28
Fundamental Frequency	:5230 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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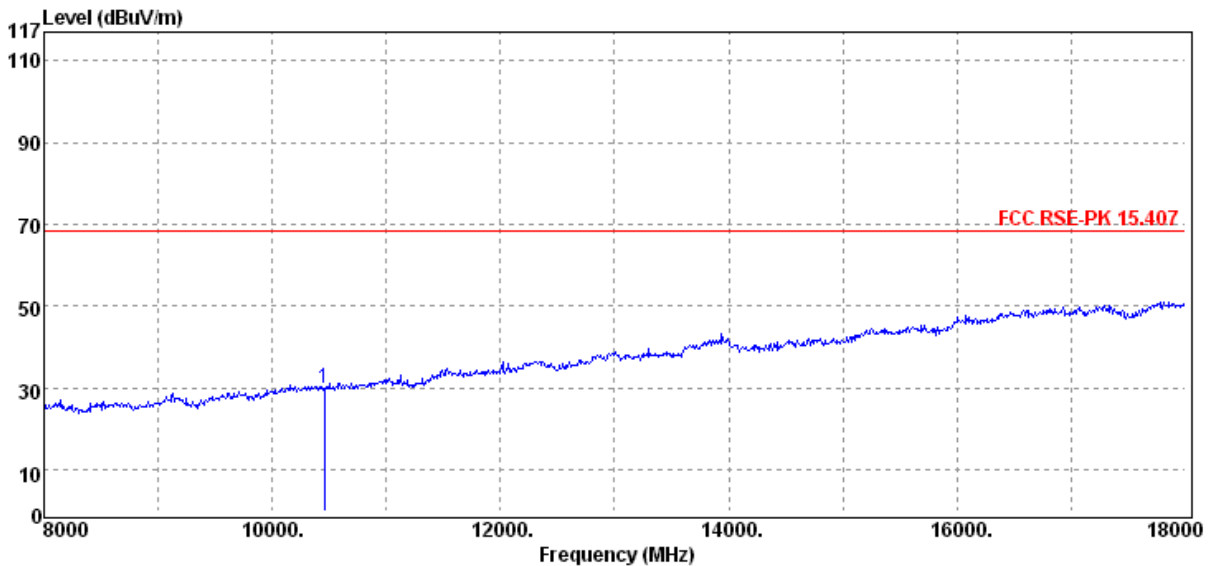
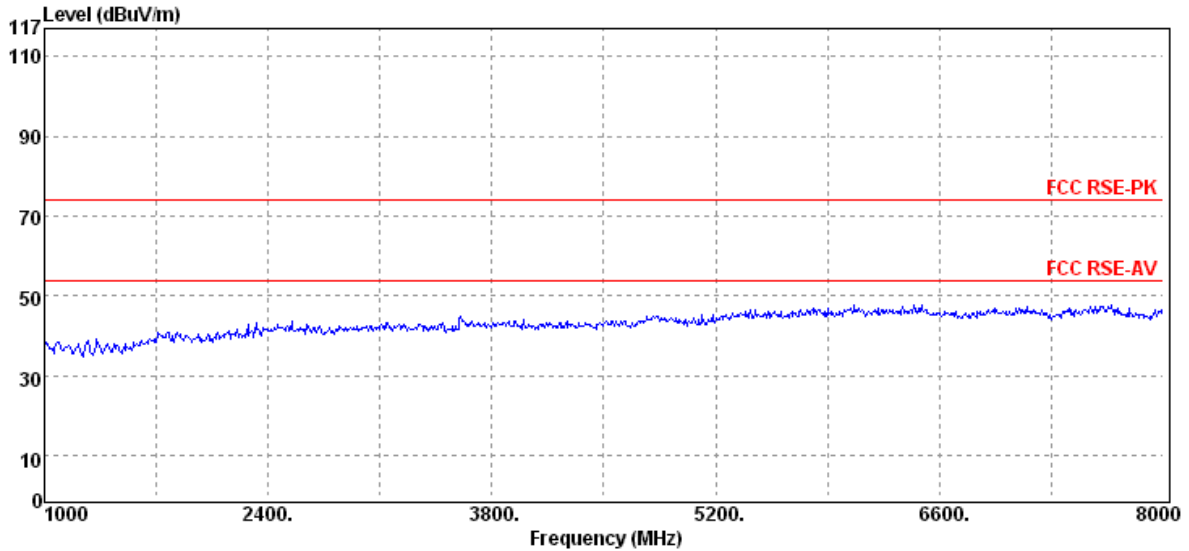
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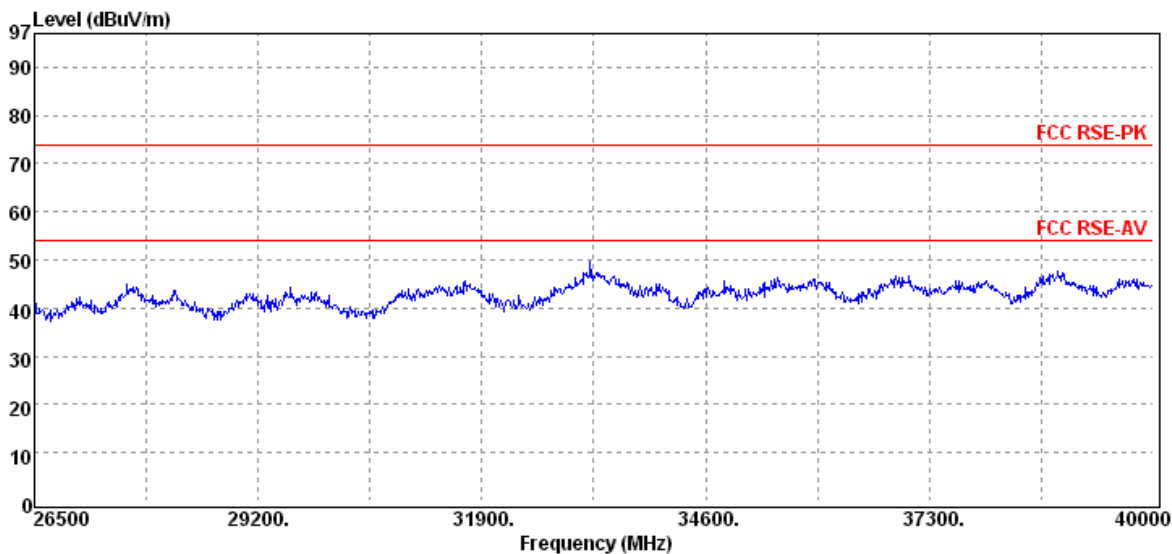
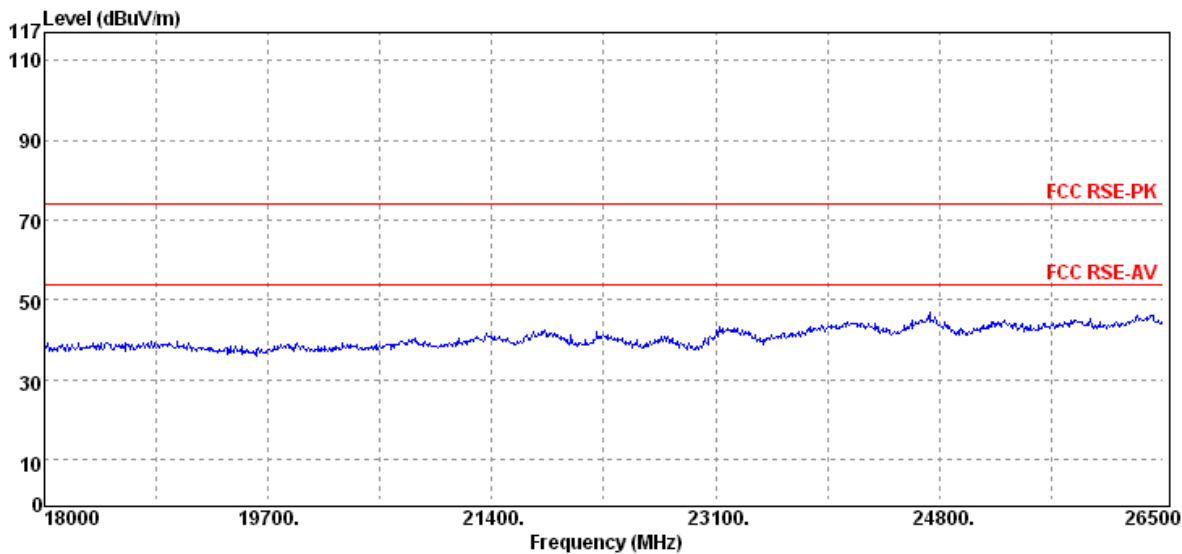
Operation Band	:802.11n 40M	Test Date	:2012-11-28
Fundamental Frequency	:5230 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



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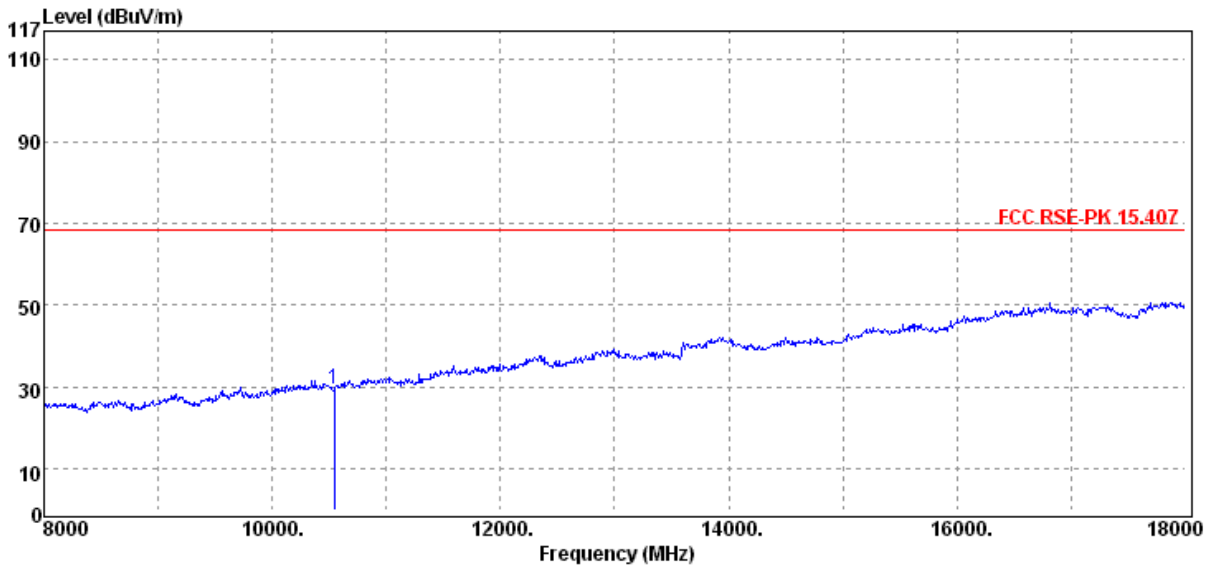
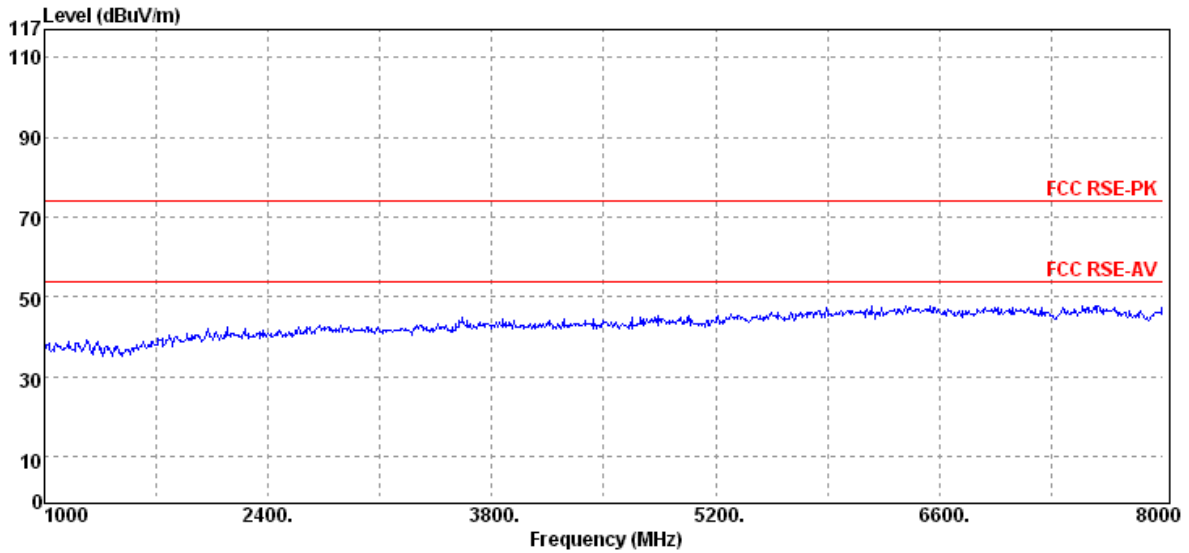
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**802.11a 5250-5350MHz**

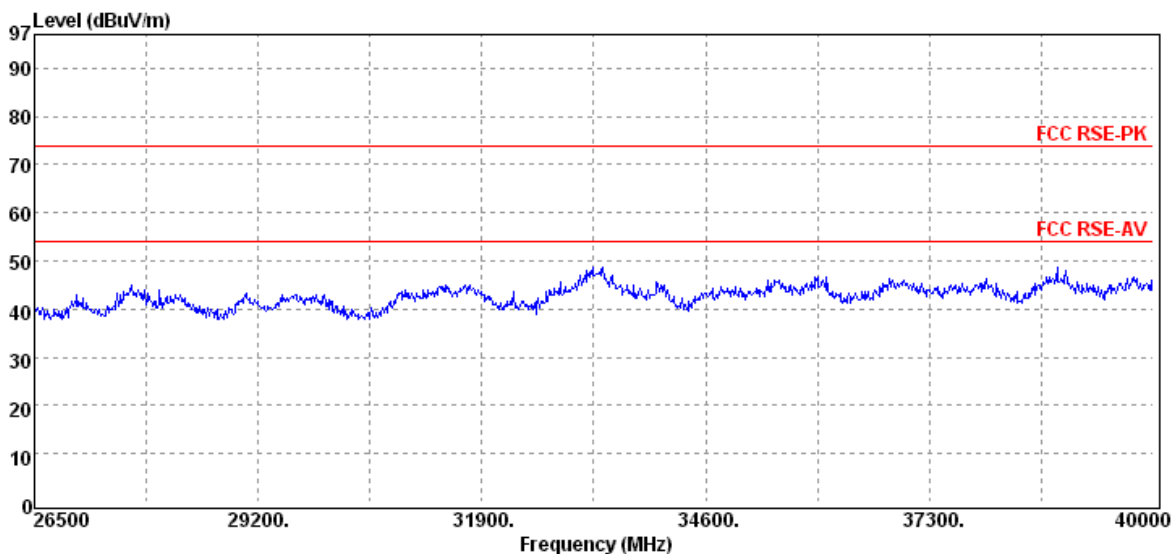
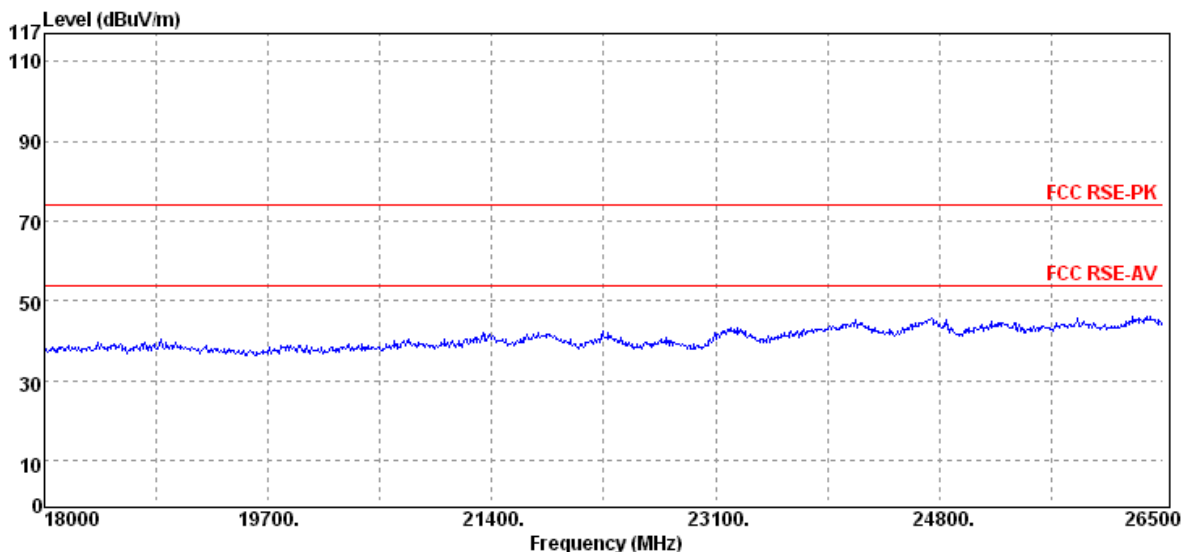
Operation Band	:802.11a 40M	Test Date	:2012-11-28
Fundamental Frequency	:5270 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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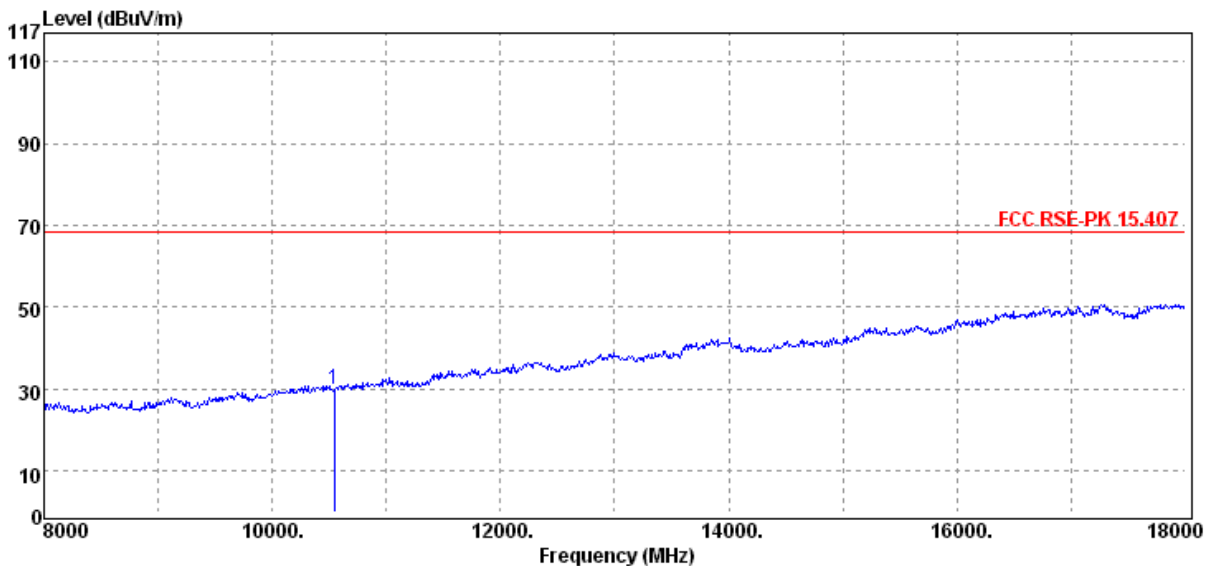
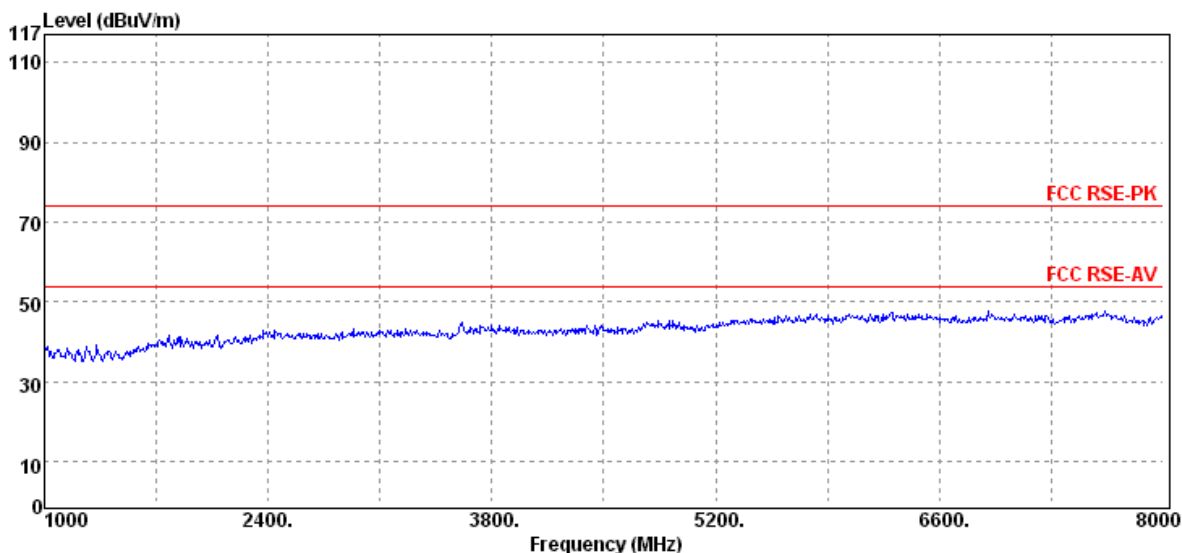
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Operation Band	:802.11a 40M	Test Date	:2012-11-28
Fundamental Frequency	:5270 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



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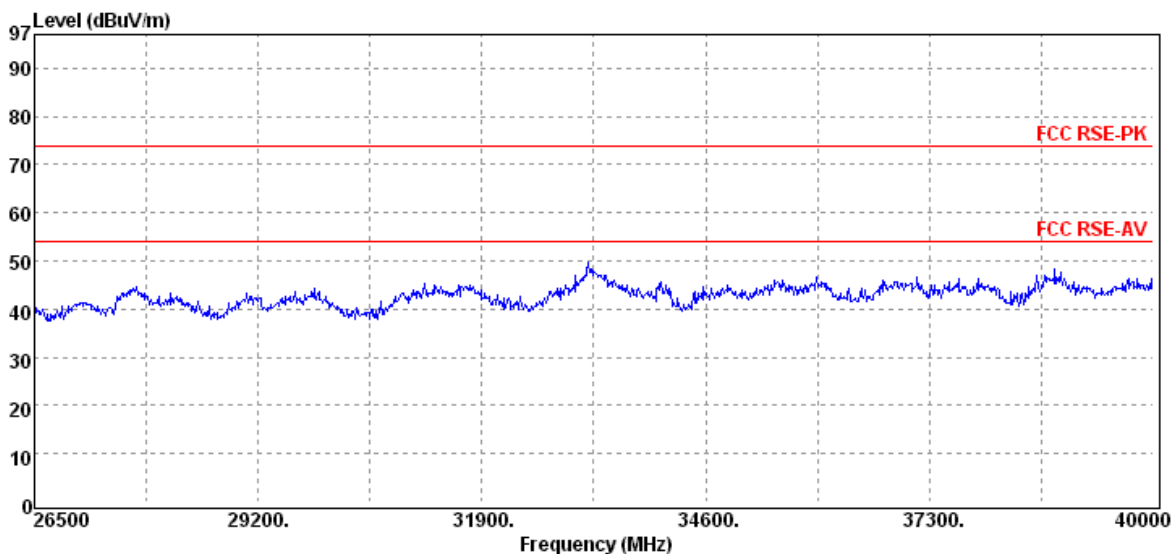
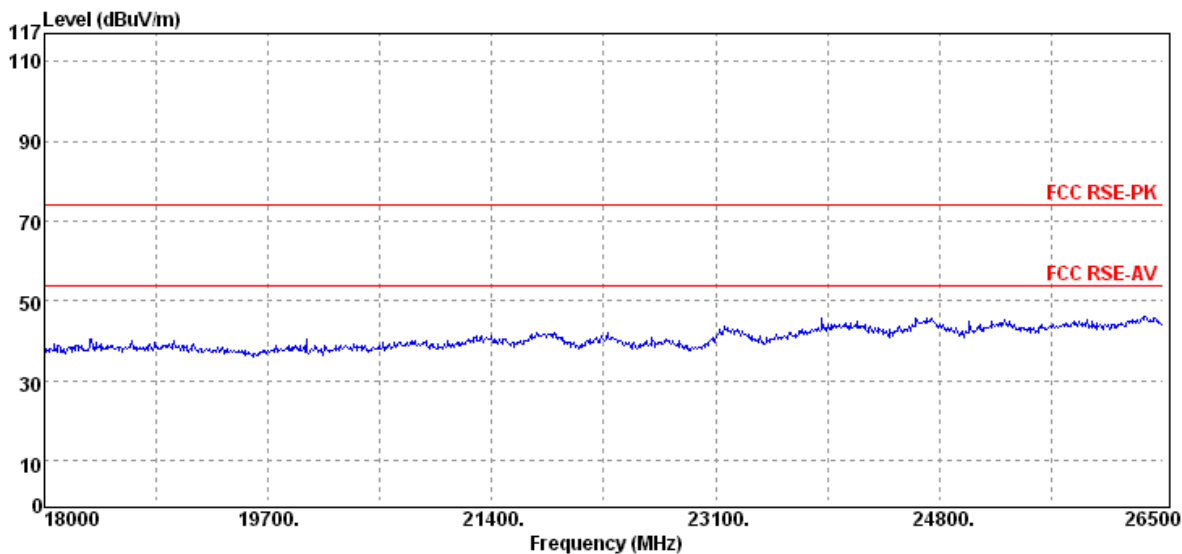
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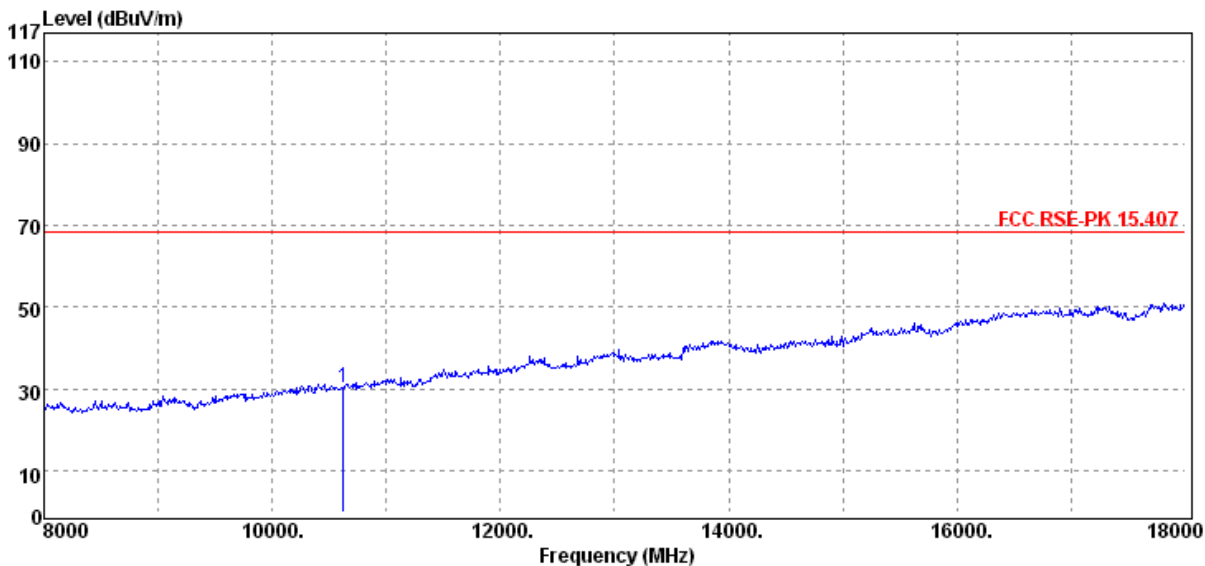
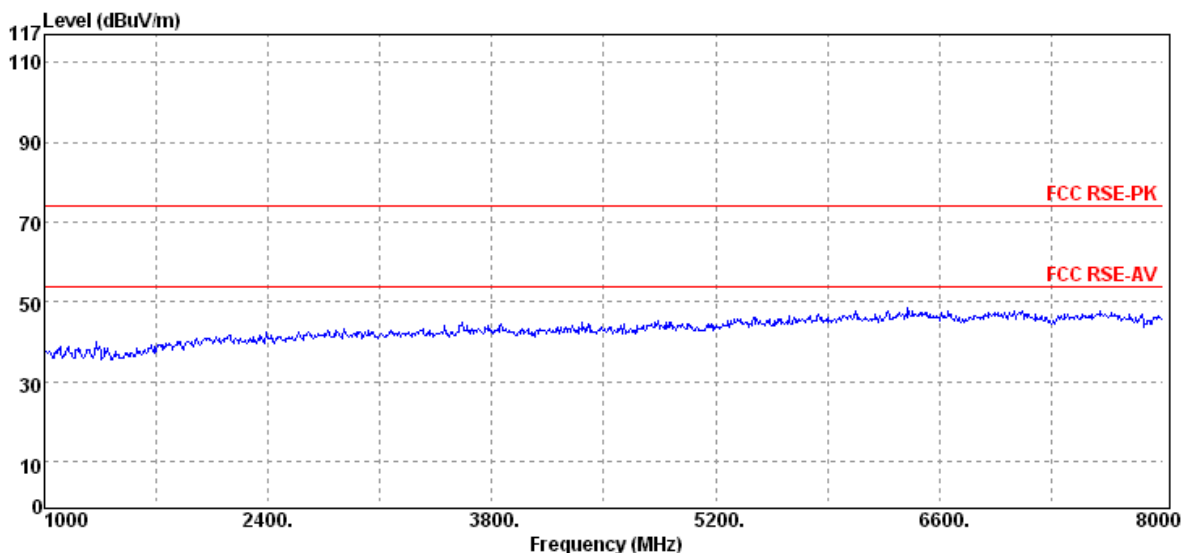
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Operation Band	:802.11a 40M	Test Date	:2012-11-28
Fundamental Frequency	:5310 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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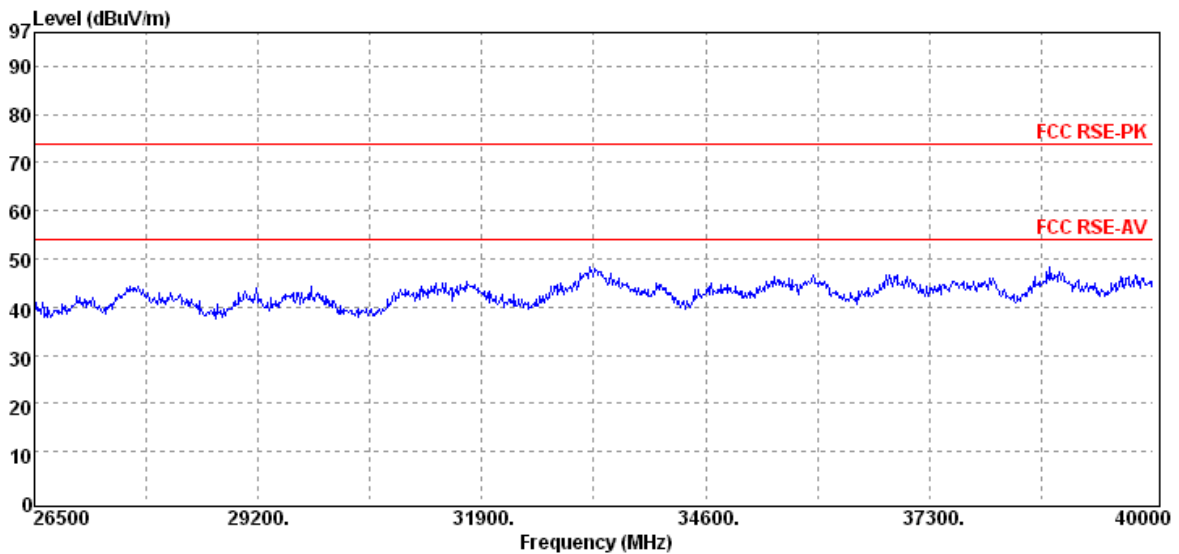
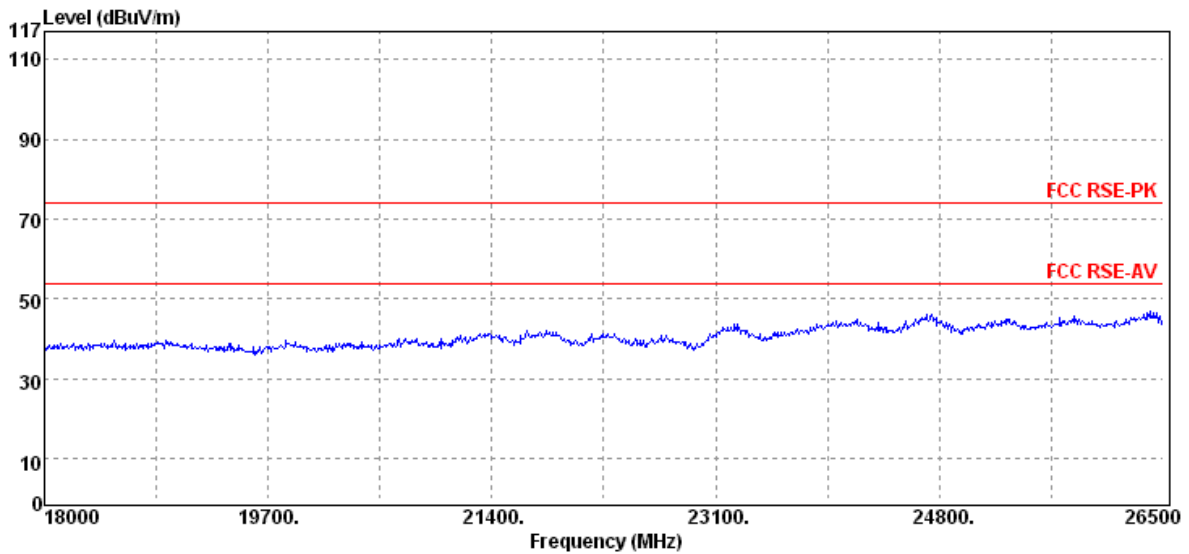
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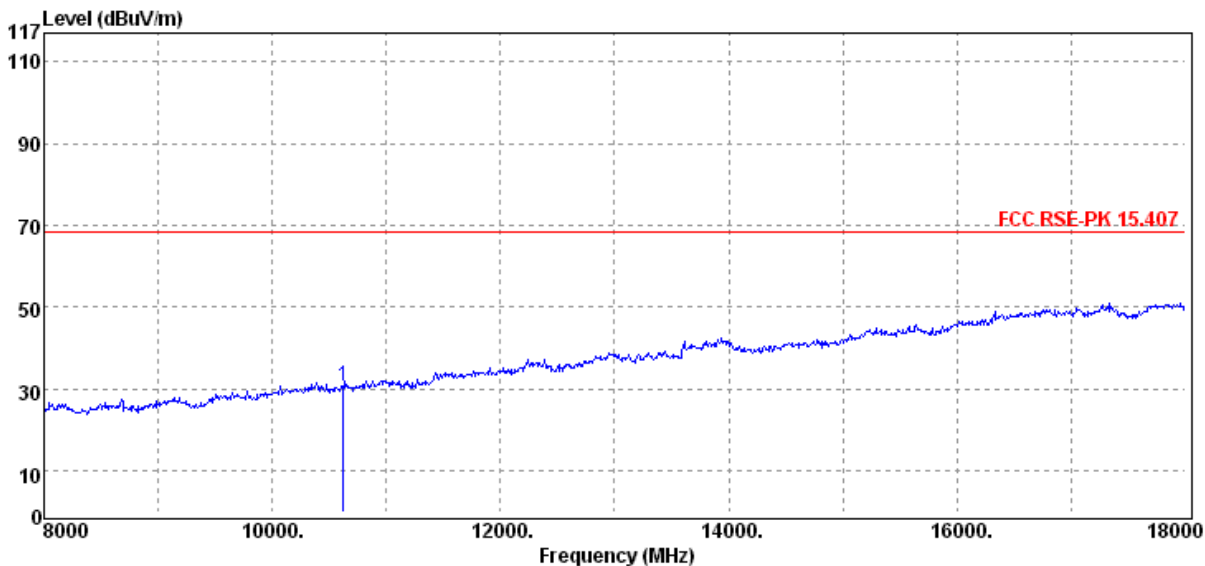
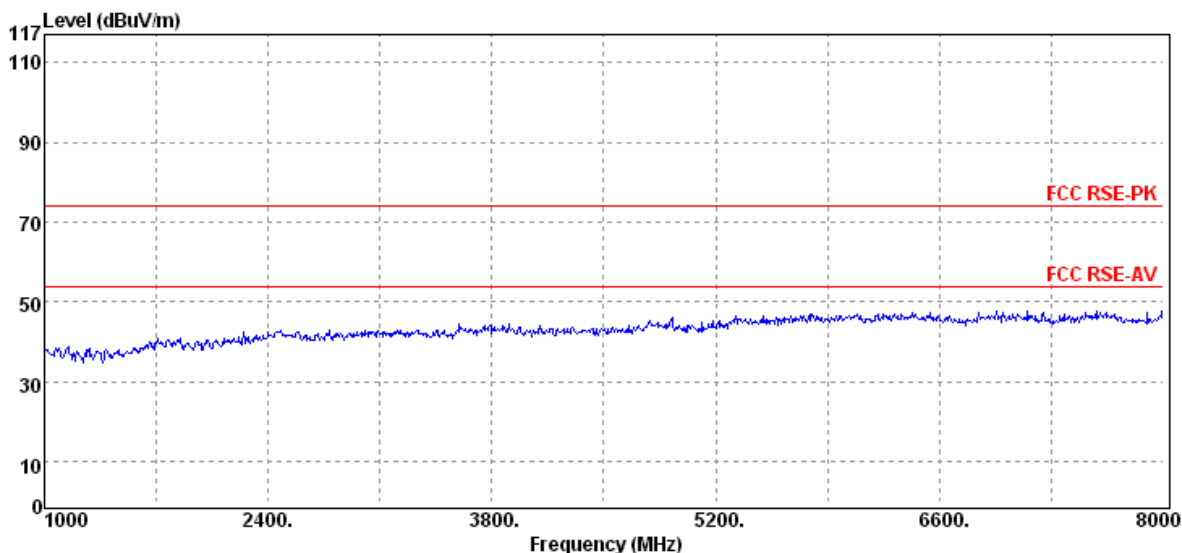
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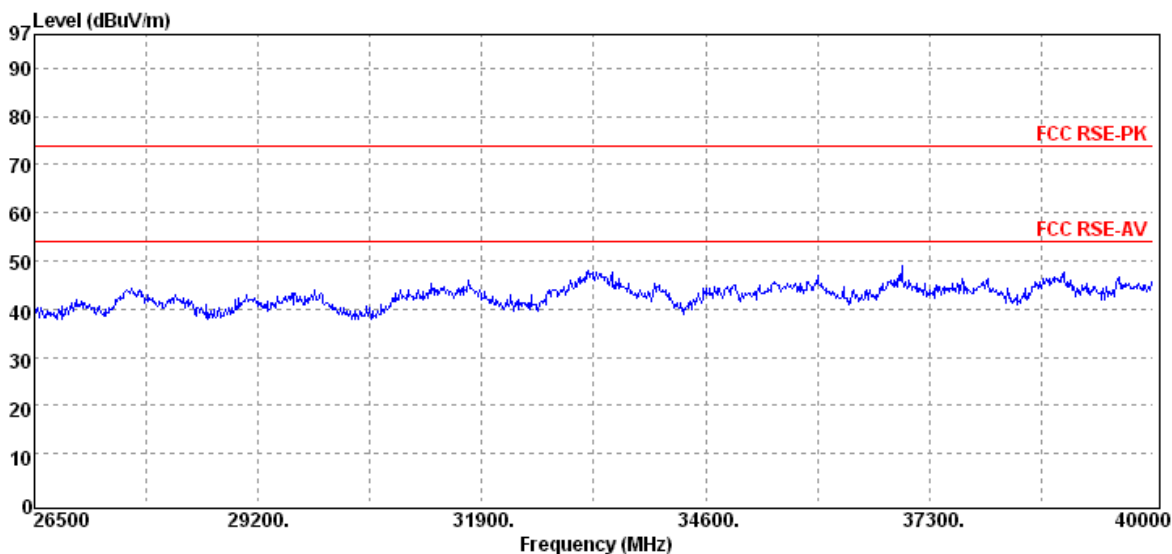
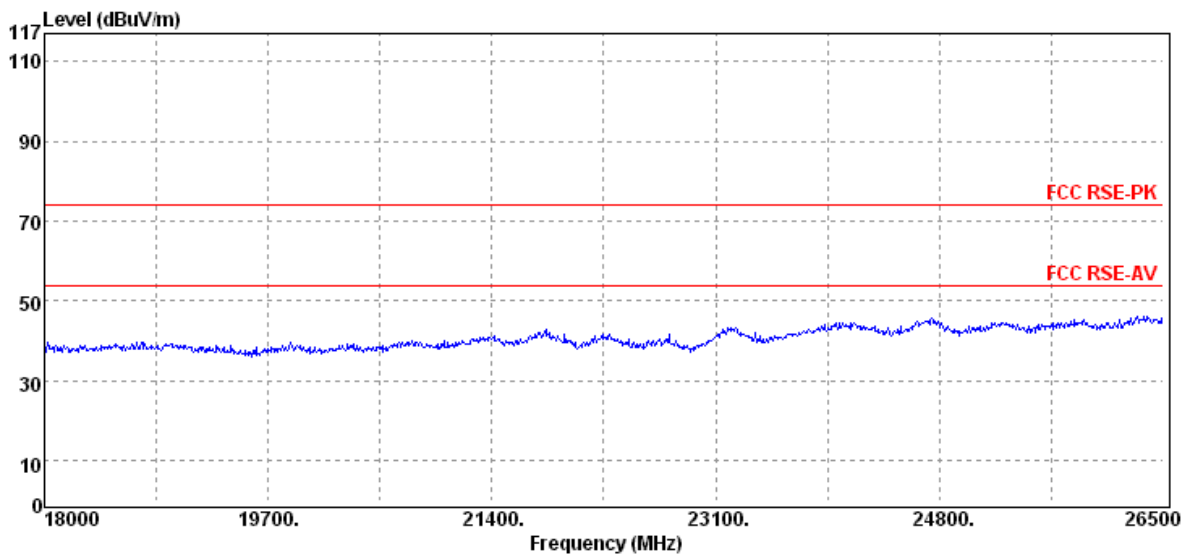
Operation Band	:802.11a 40M	Test Date	:2012-11-28
Fundamental Frequency	:5310 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



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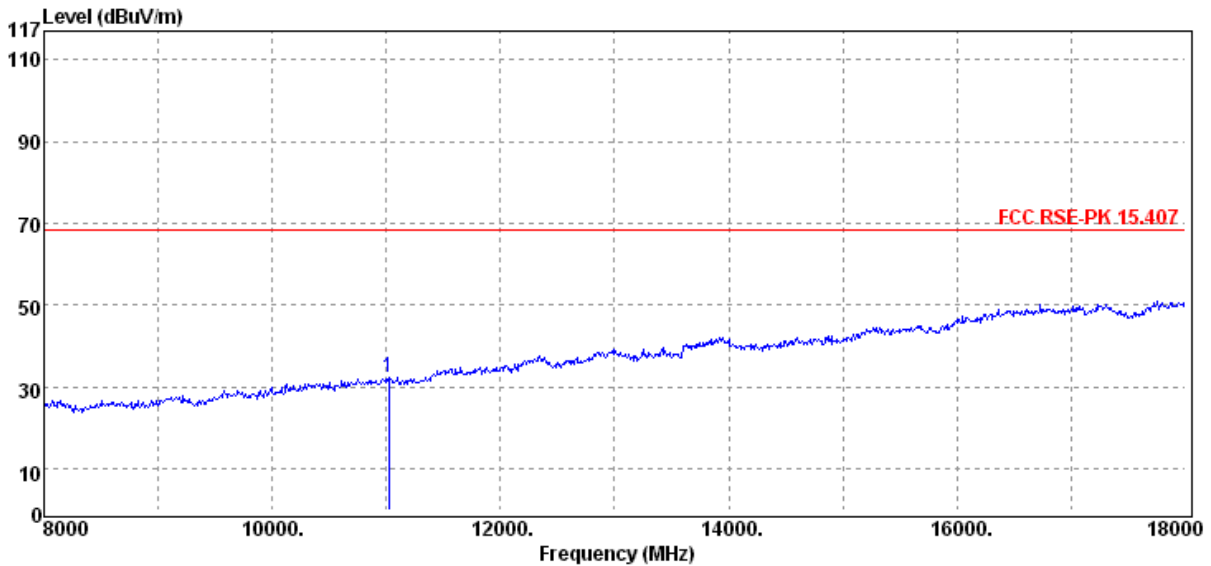
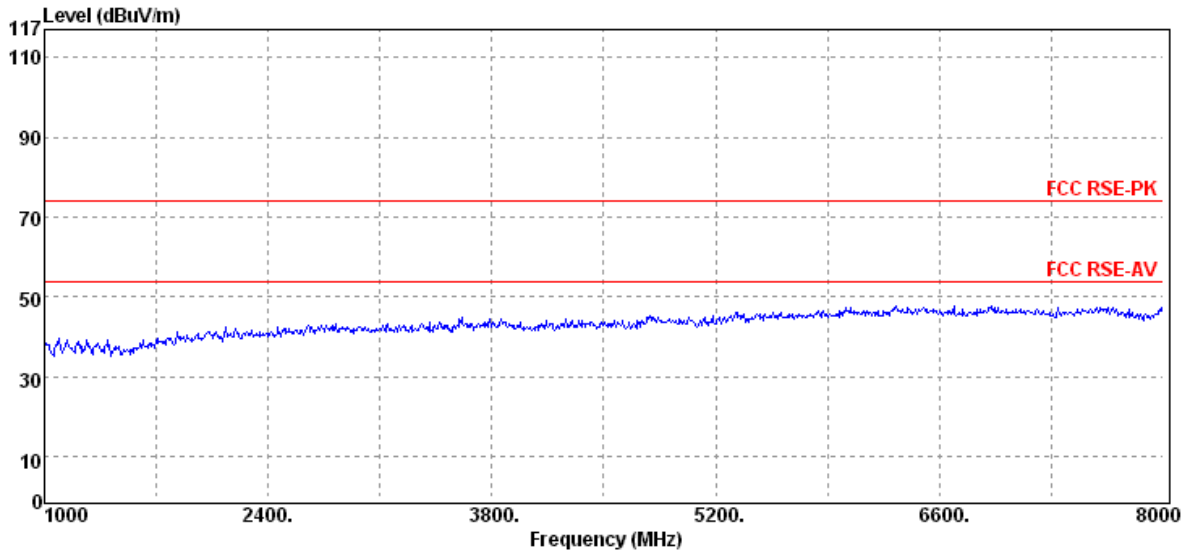
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**802.11a 5470-5725MHz**

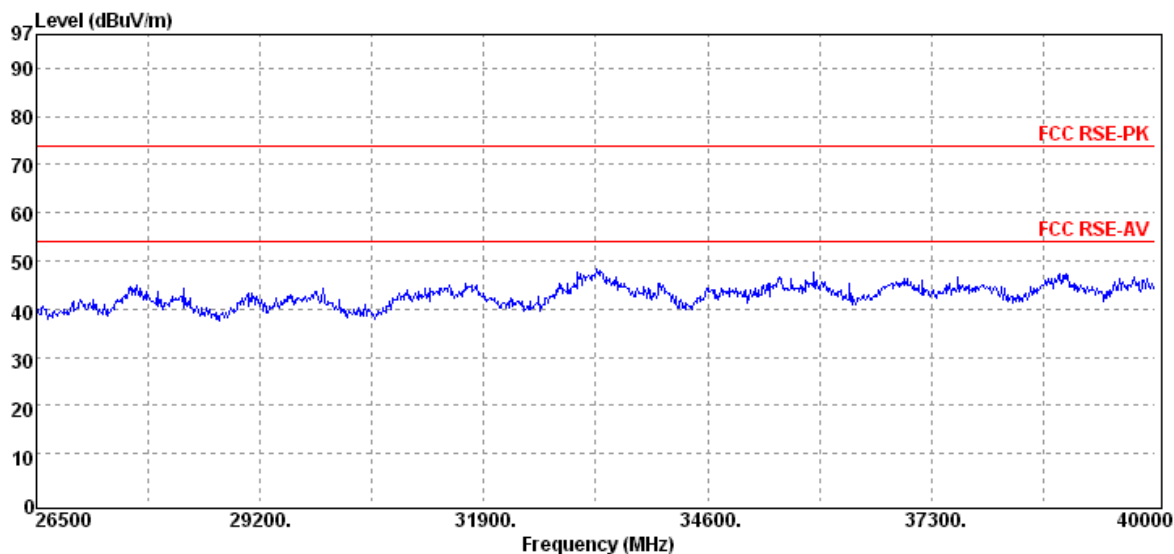
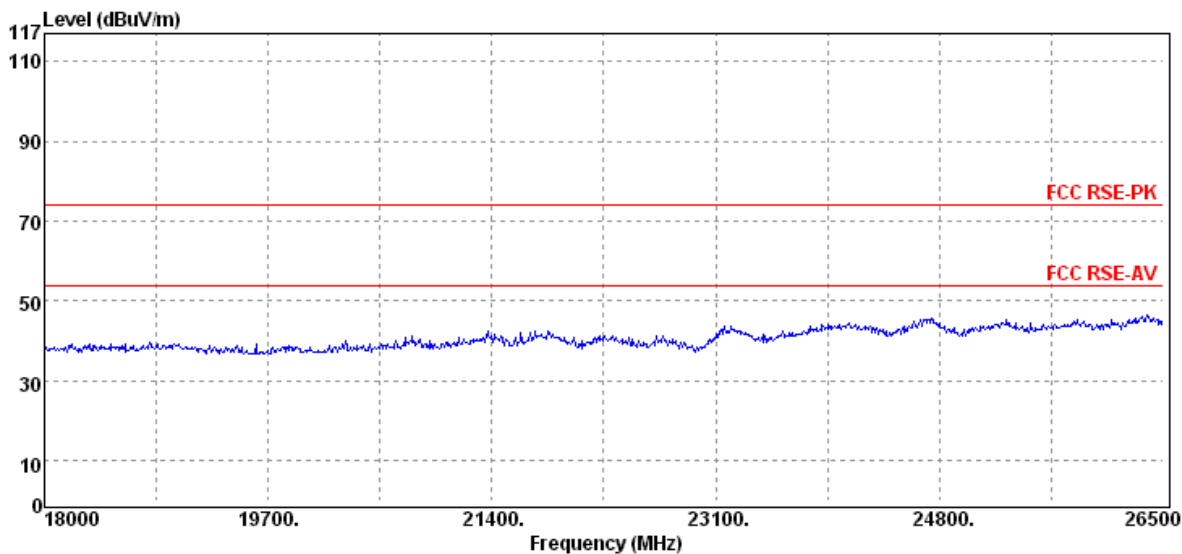
Operation Band	:802.11a 40M	Test Date	:2012-11-28
Fundamental Frequency	:5510 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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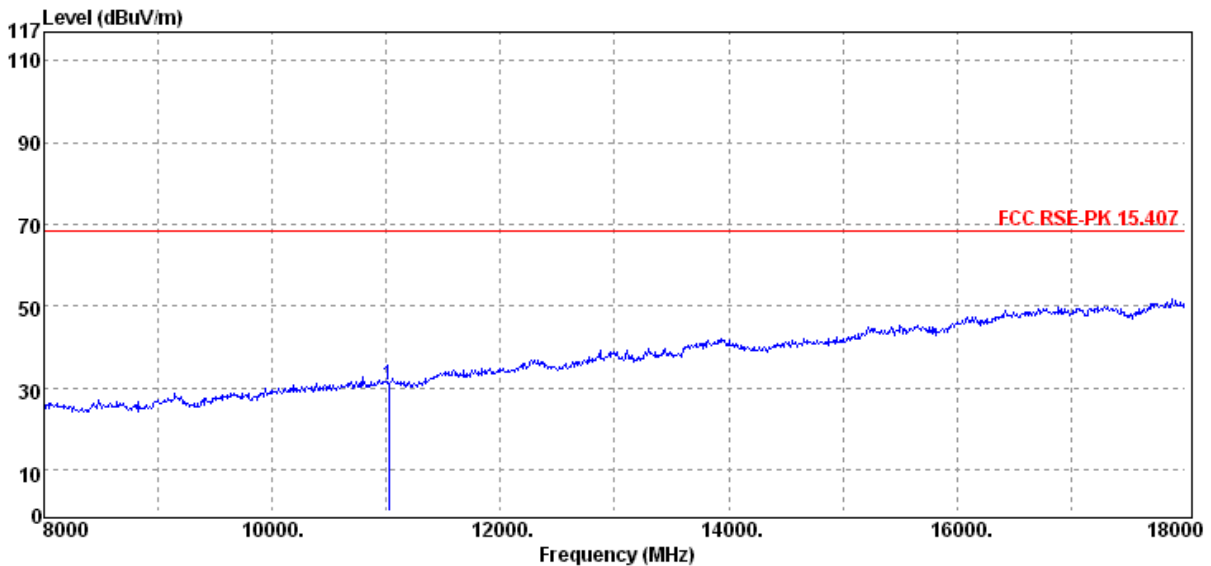
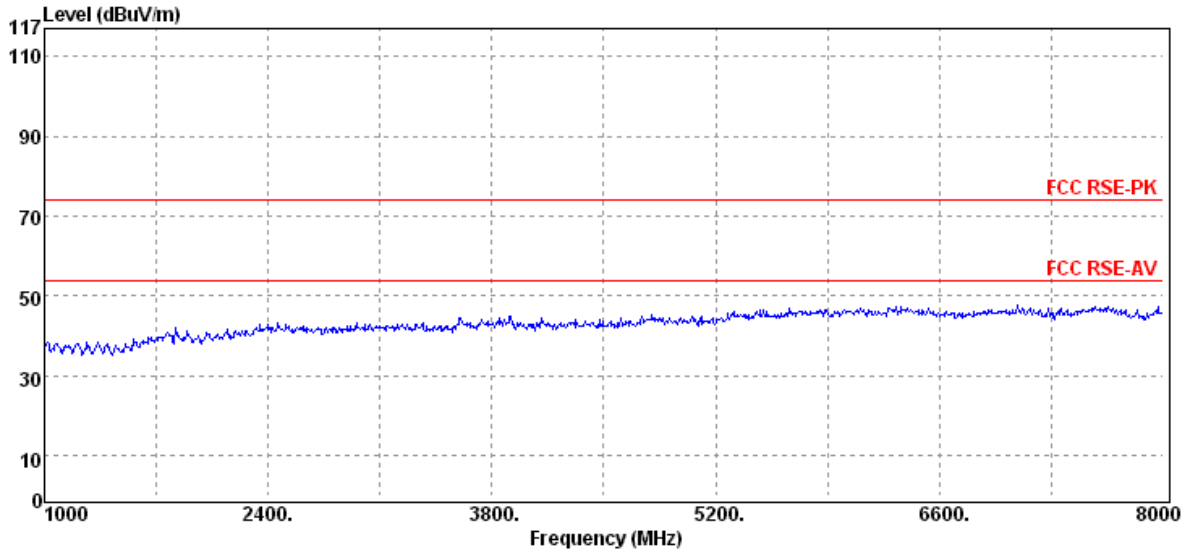


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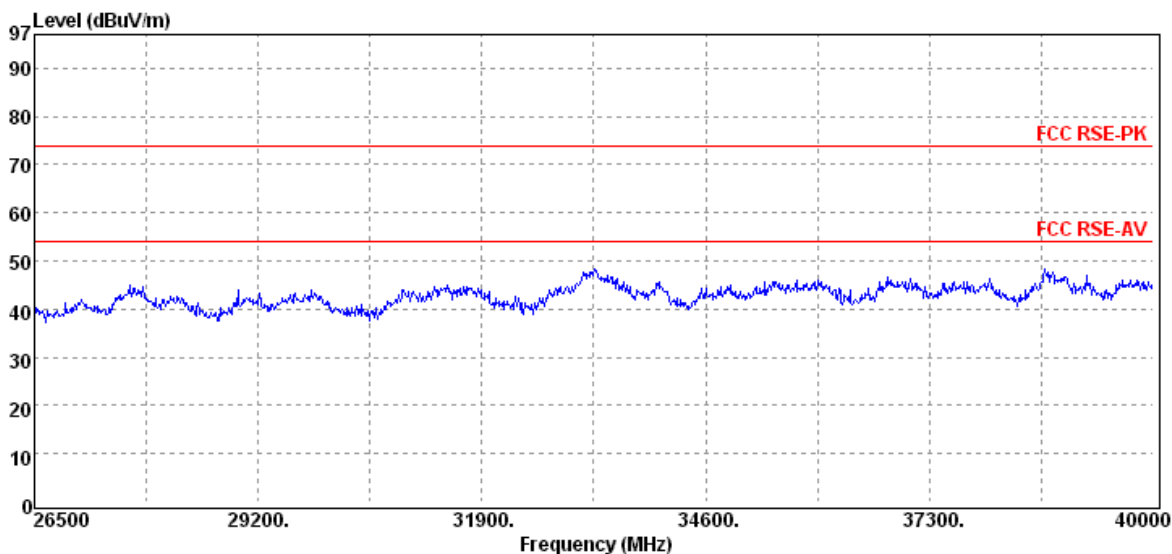
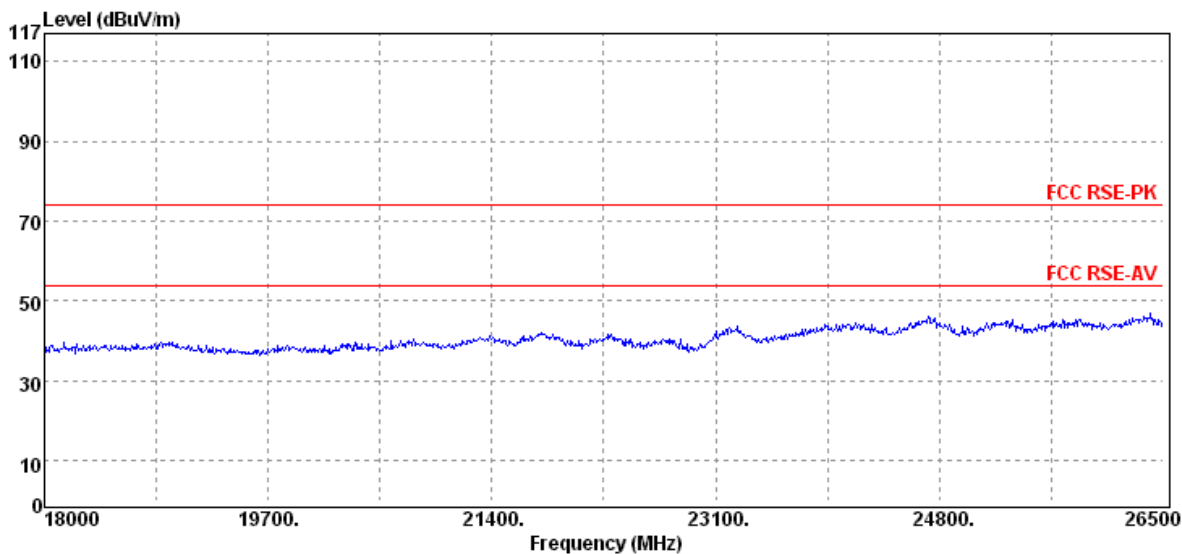
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Operation Band	:802.11a 40M	Test Date	:2012-11-28
Fundamental Frequency	:5510 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



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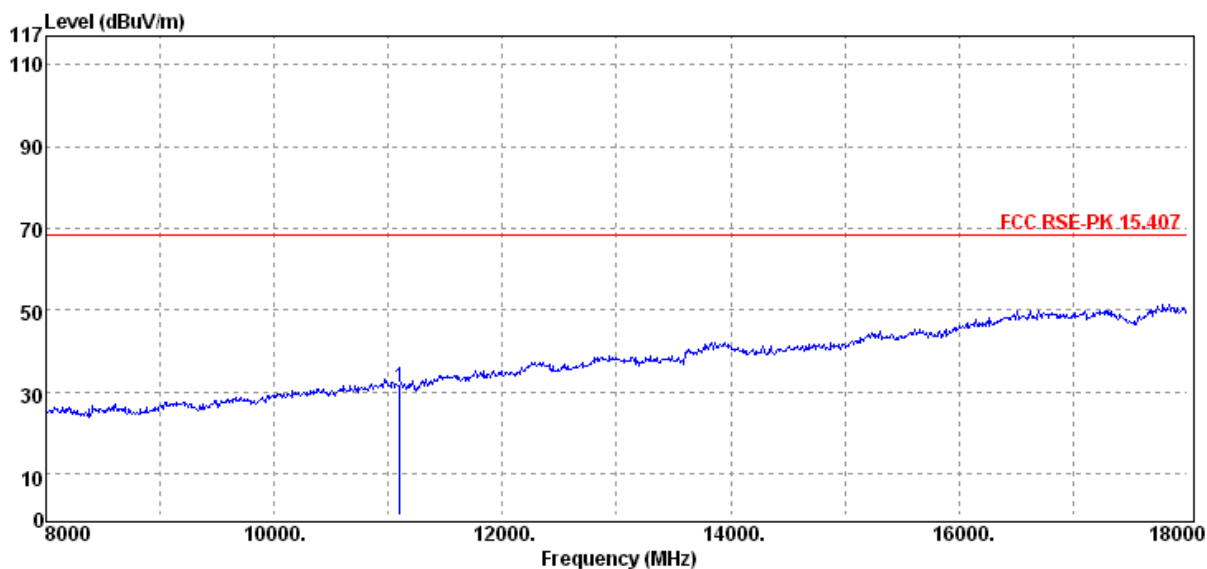
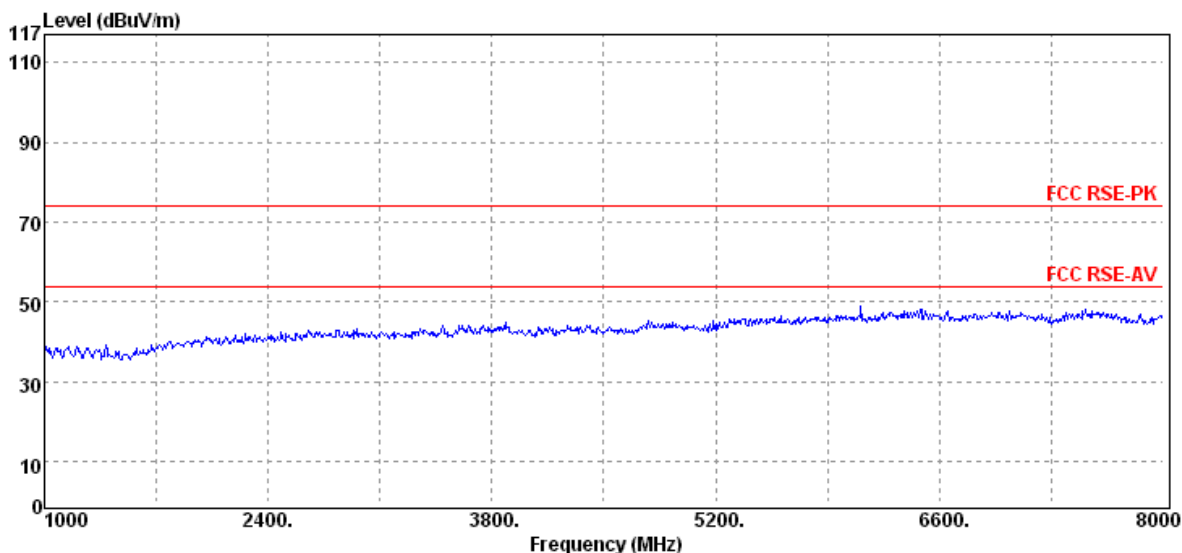
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Operation Band	:802.11a 40M	Test Date	:2012-11-28
Fundamental Frequency	:5590 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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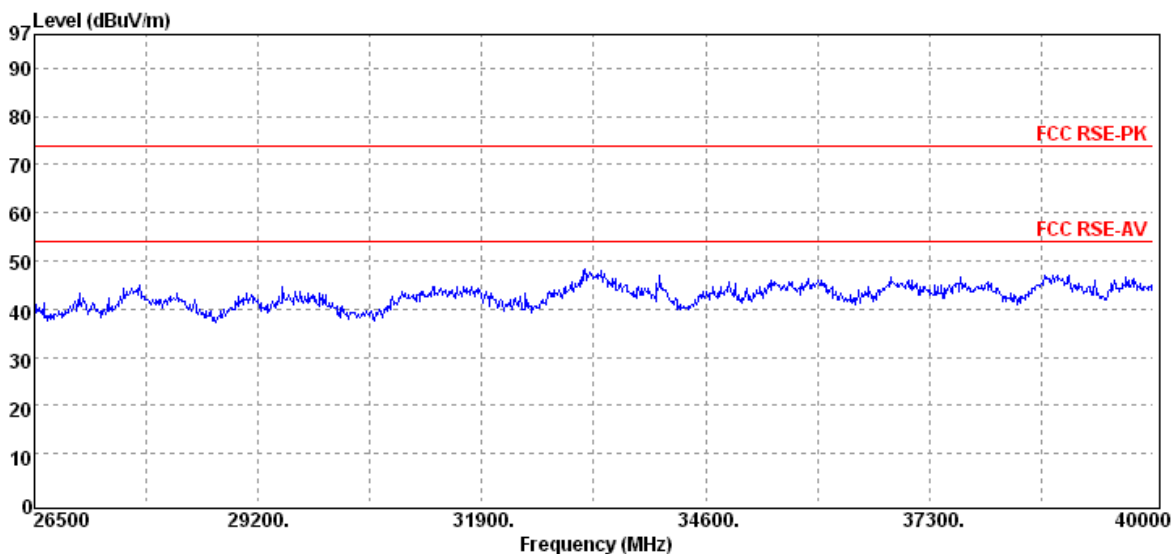
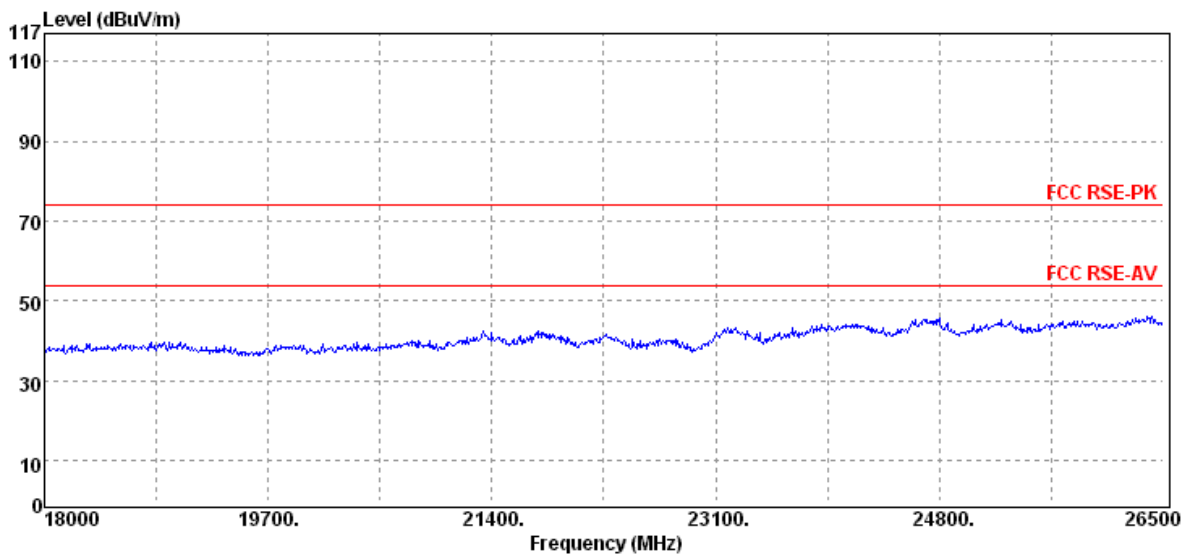
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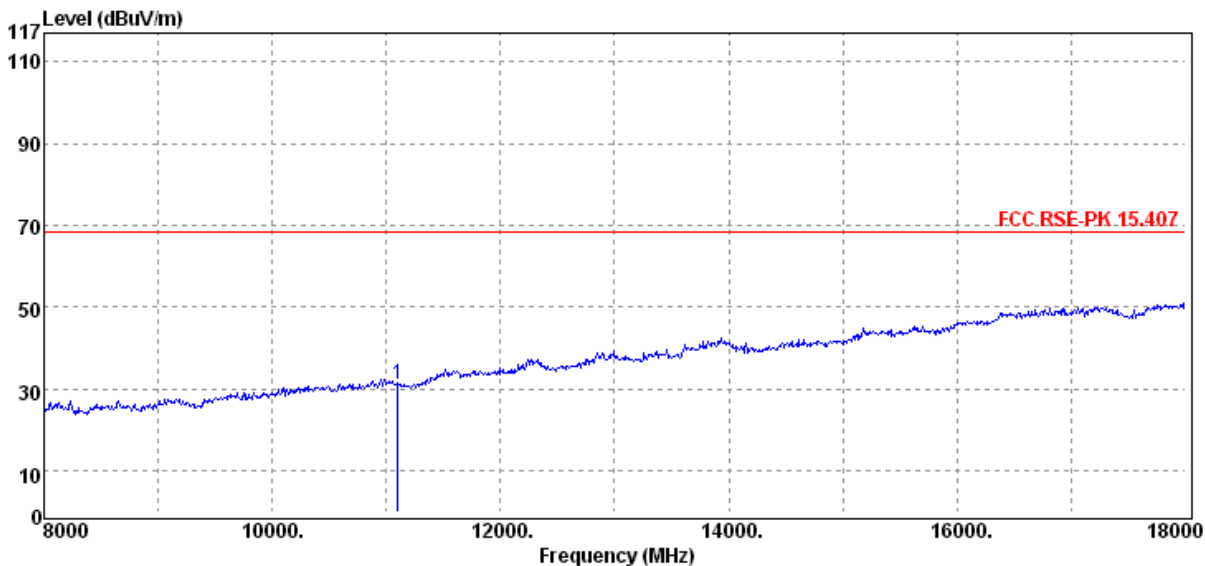
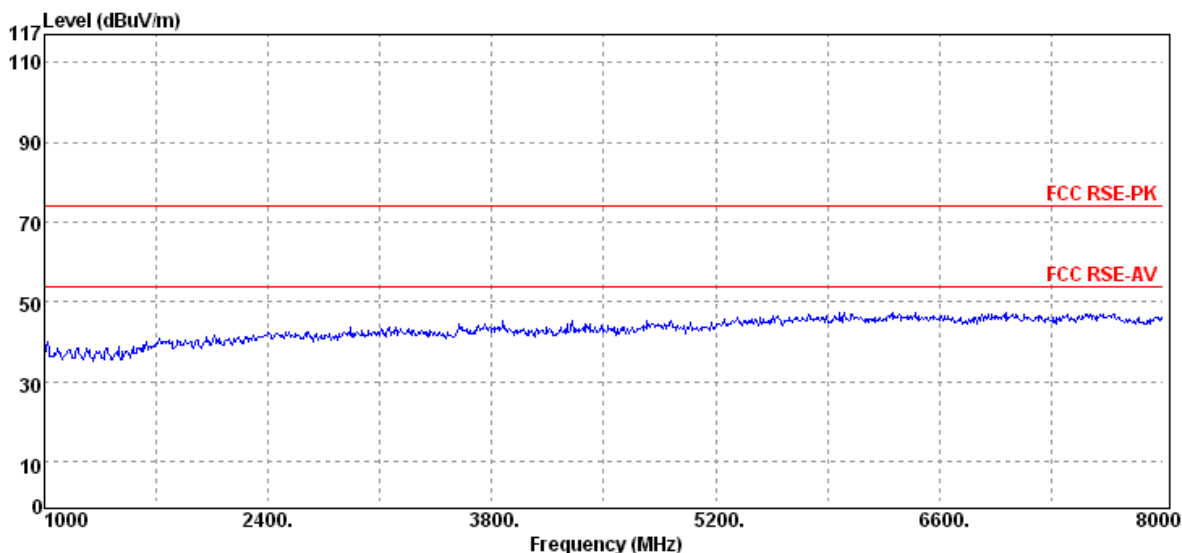
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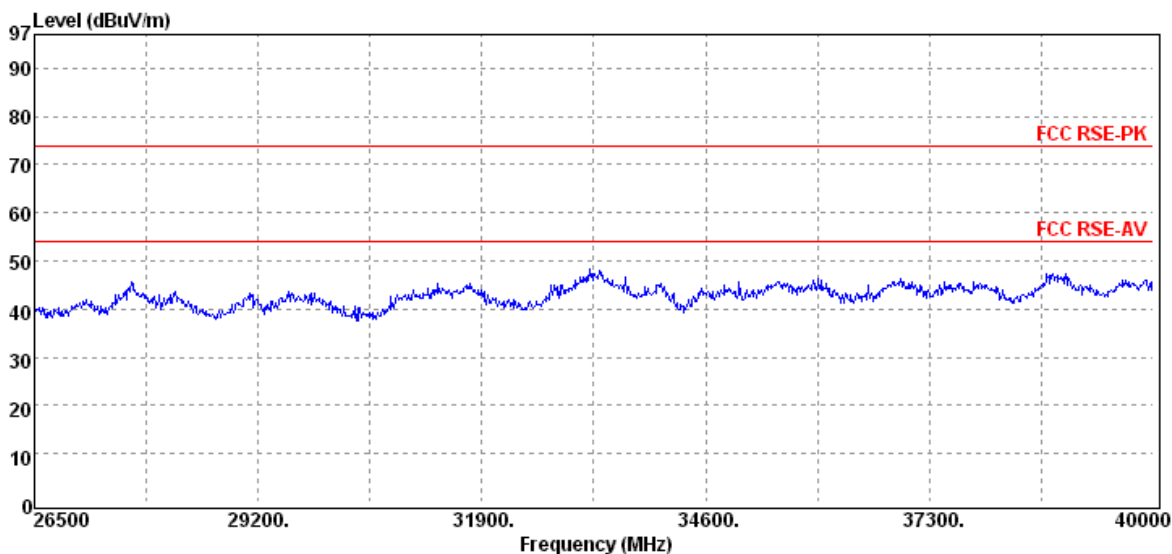
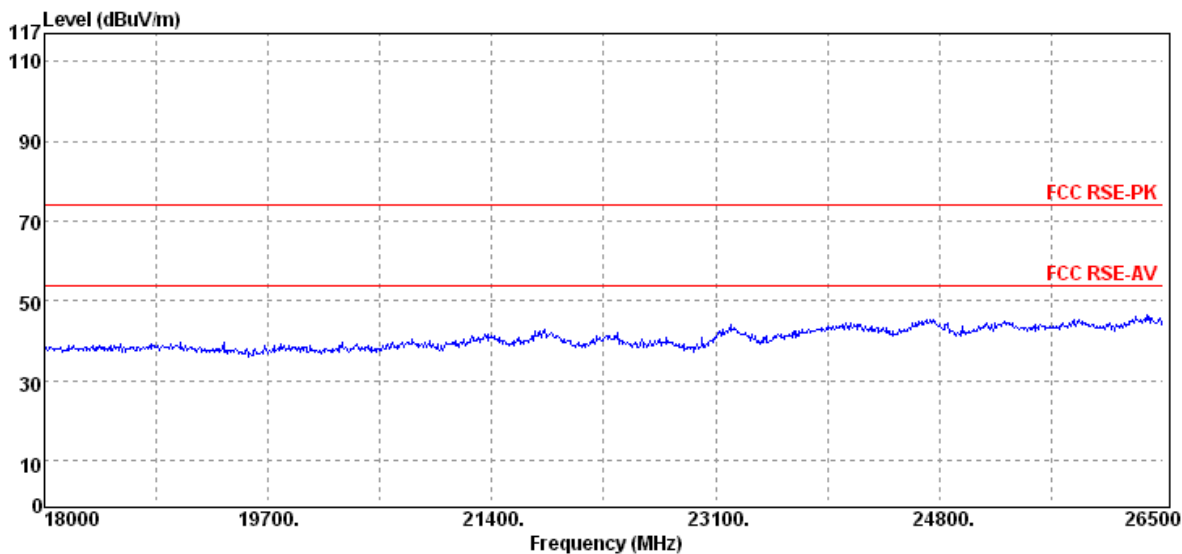
Operation Band	:802.11a 40M	Test Date	:2012-11-28
Fundamental Frequency	:5590 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



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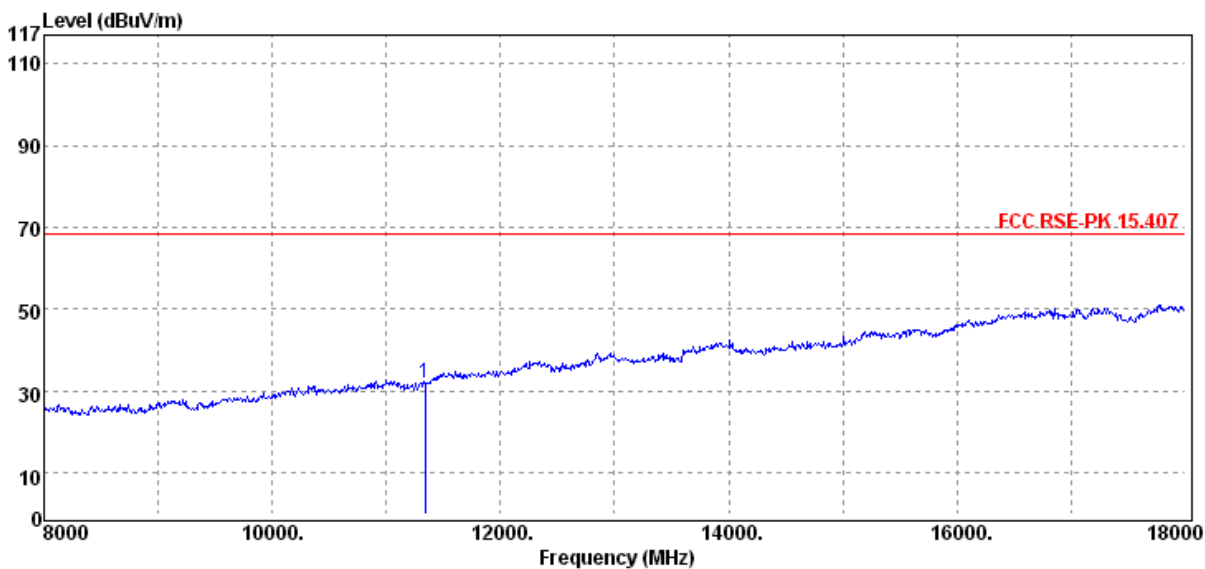
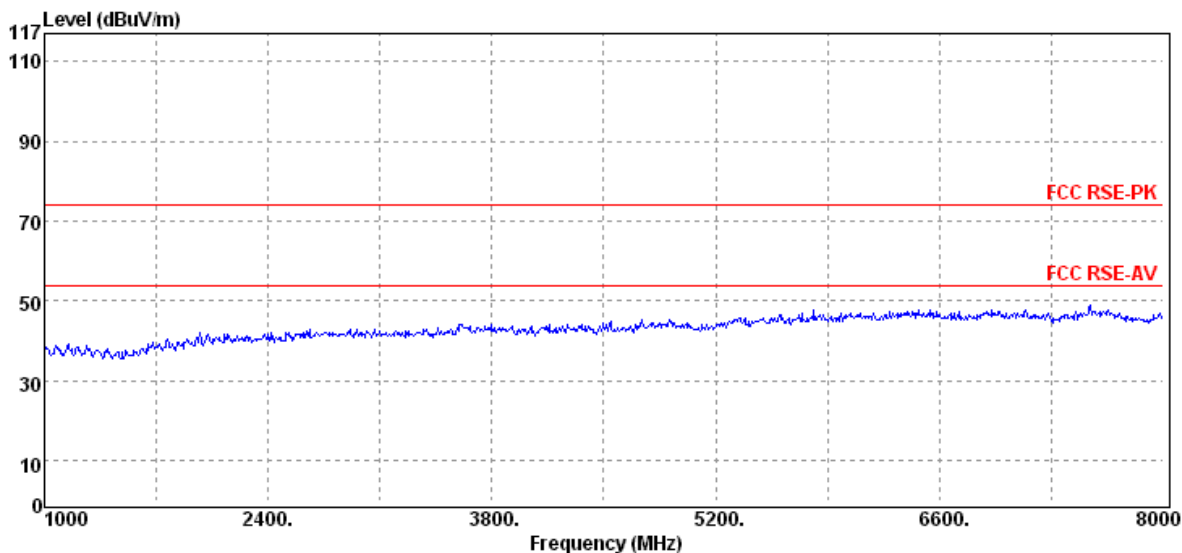
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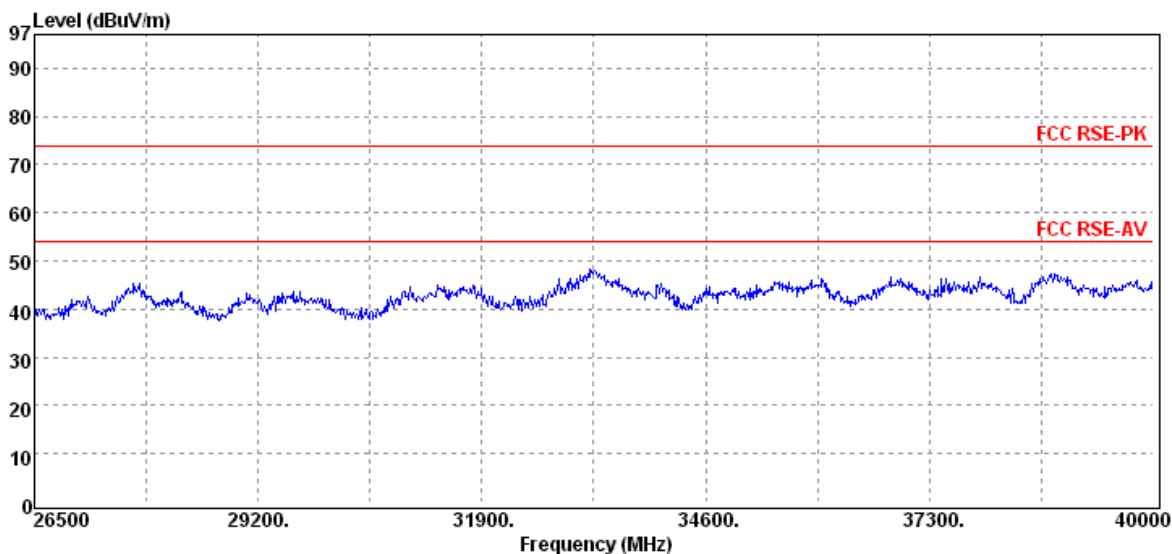
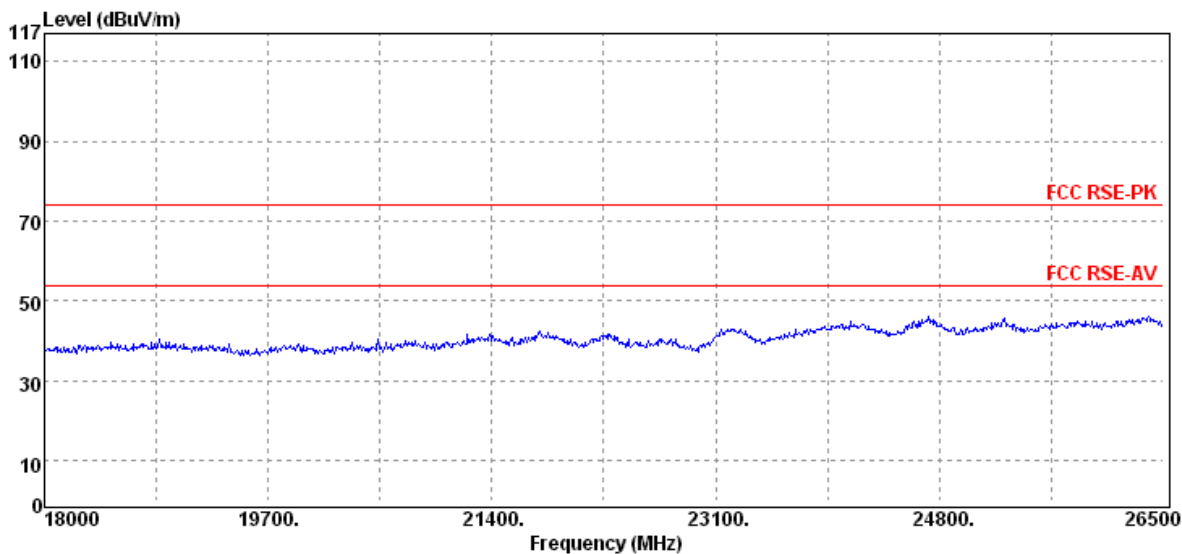
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Operation Band	:802.11a 40M	Test Date	:2012-11-28
Fundamental Frequency	:5670 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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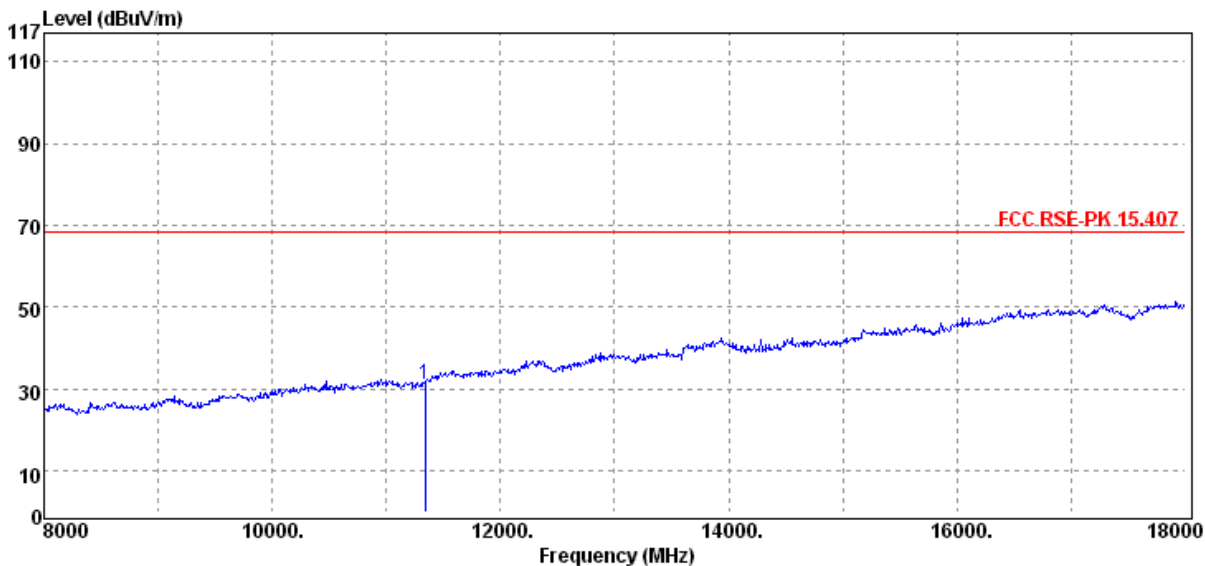
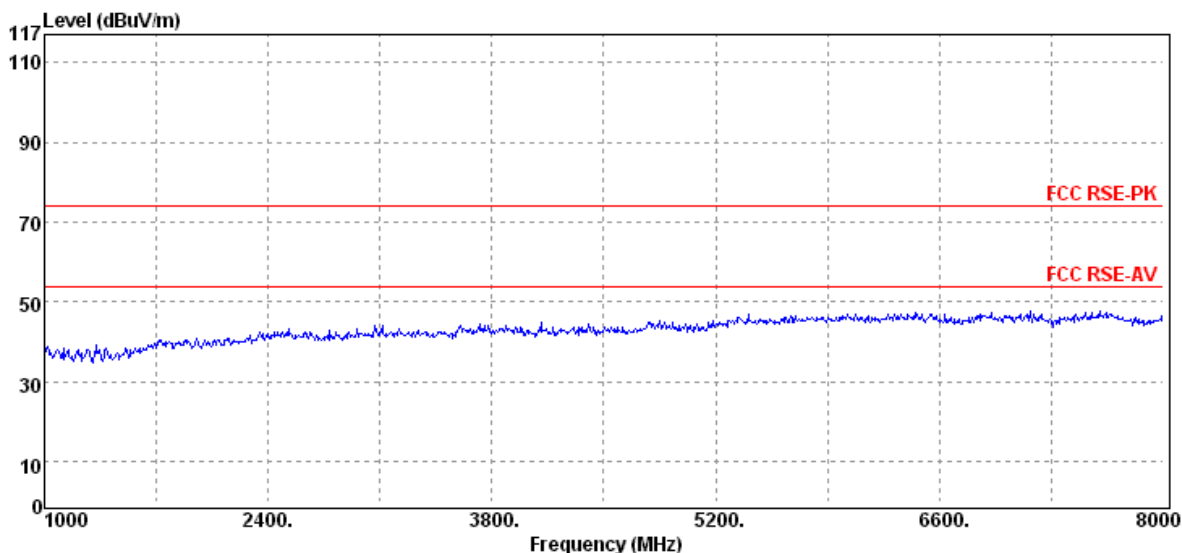
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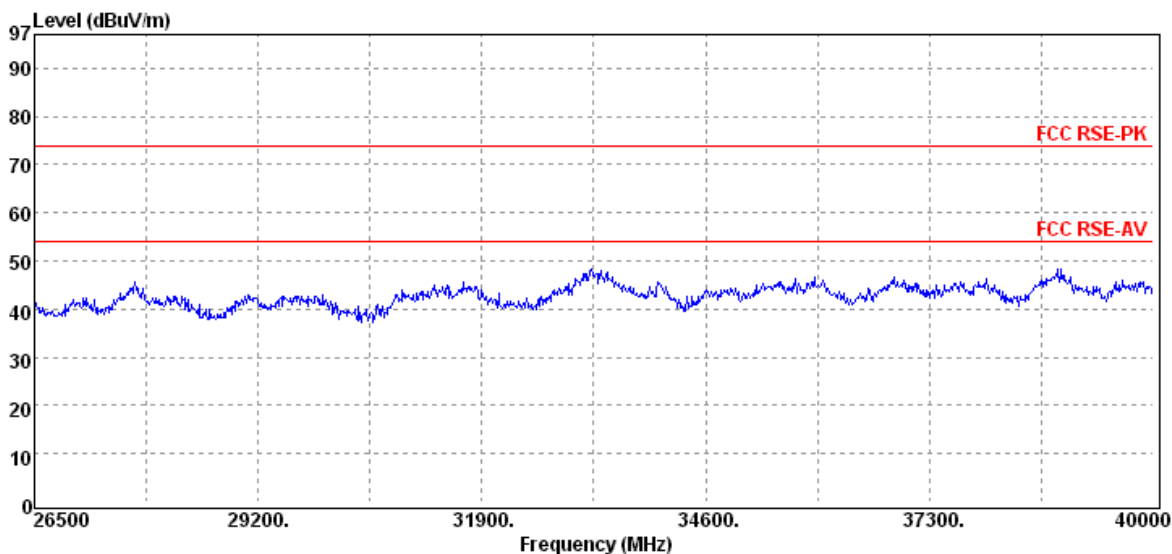
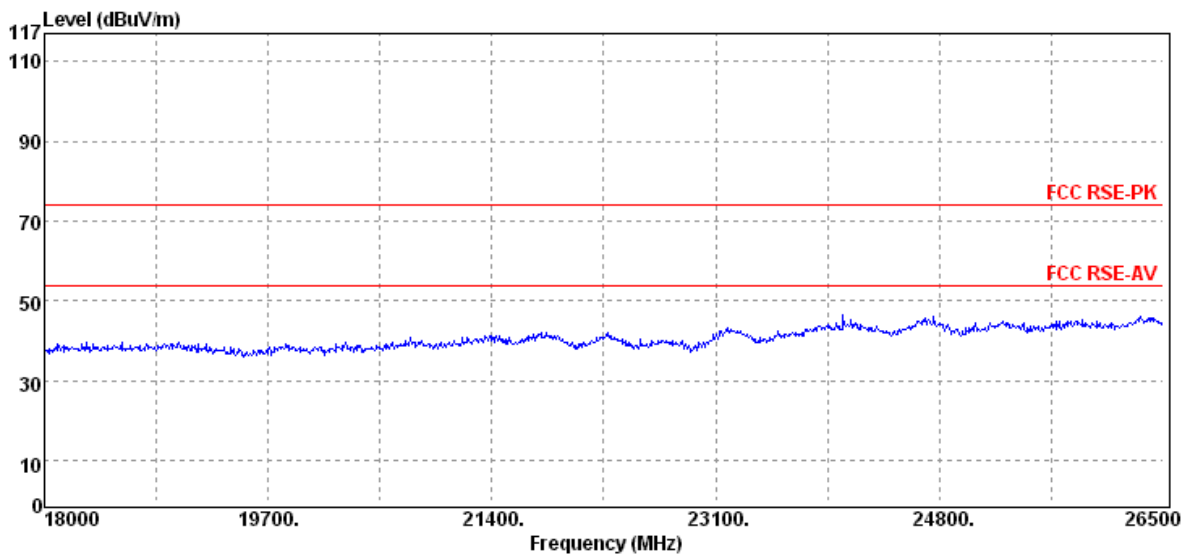
Operation Band	:802.11a 40M	Test Date	:2012-11-28
Fundamental Frequency	:5670 MHz	Temp./Humi.	:22.7deg_C/57RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



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