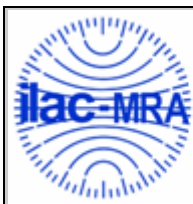


# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

**Product Name:** PDA Phone  
**Brand Name:** Sony  
**Model No.:** C1905  
**Type No.:** PM-0490-BV  
**Model Difference:** N/A  
**FCC ID:** PY7PM-0490  
**Report No.:** EH/2013/40023  
**Issue Date:** Jun. 06, 2013  
**FCC Rule Part:** §15.407  
**Prepared for:** Sony Mobile Communications AB  
Nya Vattentornet 22188 Lund/SWEDEN  
**Prepared by:** SGS Taiwan Ltd.  
Electronics & Communication Laboratory  
No.134, Wu Kung Road, New Taipei Industrial  
Park, Wuku District, New Taipei City, Taiwan  
24803



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## VERIFICATION OF COMPLIANCE

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

**Product Name:** PDA Phone

**Brand Name:** Sony

**Model No.:** C1905

**Type No.:** PM-0490-BV

**Model Difference:** N/A

**FCC ID:** PY7PM-0490

**File Number:** EH/2013/40023

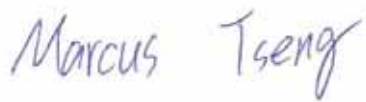
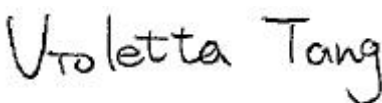

**Date of test:** Apr. 01, 2013 ~ May. 20, 2013

**Date of EUT Received:** Apr. 01, 2013

**We hereby certify that:**

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

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

<b>Test By:</b>		<b>Date:</b>	Jun. 06, 2013
	_____ <i>Marcus Tseng / Engineer</i>		_____ 
<b>Prepared By:</b>		<b>Date:</b>	Jun. 06, 2013
	_____ <i>Violetta Tang / Clerk</i>		_____ 
<b>Approved By:</b>		<b>Date:</b>	Jun. 06, 2013
	_____ <i>Jim Chang / Supervisor</i>		_____ 

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### Revision History

Report Number	Revision	Description	Issue Date
EH/2013/40023	Rev.01	Initial creation of document	May. 20, 2013
EH/2013/40023	Rev.02	1. Update Product Description "Marketing Name" into "Model No." and update "Model No." into "Type No." on Page 1, 2 and 7. 2. Update Product Description "M/N: PM-0490-BV" into "M/N: C1905" on Page 28 and 29.	Jun. 06, 2013

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**MEASUREMENT PLOT OF RADIATED SPURIOUS EMISSION ..... 297**

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# 1. GENERAL INFORMATION

## 1.1. Product Description

General:

Product Name:	PDA Phone	
Brand Name:	Sony	
Model No.:	C1905	
Type No.:	PM-0490-BV	
Model Difference:	N/A	
Data Cable (USB):	Model No.: EC450, Supplier: K-one Part No.: 1242-6715.3, Length: 100 cm	
Simple Hands-Free (SHF-White):	Model No.: MH410c, Supplier: Foster Electric Type No.: AG-1100	
Simple Hands-Free (SHF-Black):	Model No.: MH410c, Supplier: Foster Electric Type No.: CCA-0004017	
Car Charger:	Model No.: AN400, Supplier: Salcomp Type No.: CAA-0003013	
Hi-Fi Wireless Headset:	Model No.: MW600, Supplier: BALDA Type No.: DDA-0002029.B coupling with Simple Hands Free (Model No.: MH755, Supplier: BALDA Type No.: AG-0502)	
Hardware Version:	A	
Software Version:	15.1.A.1.3	
Power Supply:	3.7Vdc	
	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:	V3.0+HS
Channel number:	79 channels
Modulation type:	Frequency Hopping Spread Spectrum
Transmit Power:	9.22dBm
Frequency Range:	2.402GHz – 2.480GHz
Dwell Time:	<= 0.4s
Antenna Designation:	PIFA Antenna, Gain: 2.55dBi

Bluetooth Low Energy:

Frequency Range:	2402 – 2480MHz
Bluetooth Version:	V4.0 Dual mode
Channel number:	40 channels
Modulation type:	GFSK
Transmit Power:	1.46dBm (Peak)
Antenna Designation:	PIFA Antenna, Gain: 2.55dBi

NFC:

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

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WLAN 2.4GHz+5.7GHz:

Wi-Fi	Frequency Range	Channels	Rated Power	Modulation Technology
11b/g	2412-2462	11	b: 17.61dBm g: 21.00dBm	DSSS, OFDM
11n	HT20 2412-2462	11	HT20: 21.11dBm	OFDM
11a	5725-5850	5	a: 20.12dBm	OFDM
11n (5GHz)	HT20 5725-5850	5	HT20: 20.13dBm	
11n (5GHz)	HT40 5725-5850	2	HT40: 19.66dBm	
Antenna Designation:		PIFA Antenna, 2.4GHz Gain: 2.55dBi 5GHz Gain: 1.66dBi (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 – 65.0Mbps 802.11 n_40MHz: 13.5 – 135.0Mbps		

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WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Avg)	Modulation Technology
11a	5150~5250	4	12.85dBm	OFDM
	5250~5350	4	12.81dBm	
	5470~5725	11	12.94dBm	
11n	HT20 5150~5250	4	HT20: 12.87dBm	OFDM
	HT20 5250~5350	4	HT20: 12.87dBm	
	HT20 5470~5725	8	HT20: 12.94dBm	
11n	HT40 5150~5250	2	HT40: 11.77dBm	OFDM
	HT40 5250~5350	2	HT40: 11.83dBm	
	HT40 5470~5725	3	HT40: 11.88dBm	
Antenna Designation	PIFA Antenna, 5GHz Gain: -0.74dBi (5150MHz-5250MHz) 5GHz Gain: 1.01dBi (5250MHz-5350MHz) 5GHz Gain: 2.70dBi (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 – 65.0Mbps 802.11 n_40MHz: 13.5 – 135.0Mbps			

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GSM:

Cellular Phone Standards Frequency Range and Power.	Operating Frequency		Rated Power
	GSM/GPRS 850, Class 12	824.2 MHz– 848.8 MHz	33dBm
	EDGE 850, Class 12	824.2 MHz– 848.8 MHz	27dBm
	GSM/GPRS 1900, Class 12	1850.2MHz – 1909.8MHz	30dBm
	EDGE 1900, Class 12	1850.2MHz – 1909.8MHz	26dBm
Type of Emission:	GSM 850: 248KGXW, GSM 1900: 247KGXW GPRS 850: 246KGXW, GPRS 1900: 247KGXW EDGE 850: 249KG7W, EDGE 1900: 248KG7W		
IMEI:	004402146593334		

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		Datarate(Mbps)			
					20MHz	40MHz	20MHz	40MHz	80nsGI		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

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-0490** filing to comply with Section 15.407 of the FCC Part 15, Subpart C Rules. The composite system (digital device) is compliance with Subpart B is authorized under the certification procedure.

## 1.3. Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4:2009 & ANSI C63.10:2009 & 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: 990257. Canada Registration Number: 4620A-4.

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 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

There are no special accessories used while test was conducted.

## 1.6. Equipment Modifications

There was no modification incorporated into the EUT.

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## 2. SYSTEM TEST CONFIGURATION

### 2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 2.2. EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

### 2.3. Test Procedure

#### 2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the general criterion in Section 7.1 of ANSI C63.4:2009 & 6.2 ANSI 63.10:2009. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz, and the measurement procedure 7.3 in ANSI 63.4:2009 & 6.2.2, and 6.2.3 in ANSI 63.10:2009 is followed to carry out the test. The CISPR Quasi-Peak and Average detector mode is employed according to §15.107

#### 2.3.2 Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna according to the requirements in Section 8 and 13 and of ANSI C63.4:2009, & Section 6.3, 6.4, 6.5, and 6.6 of ANSI 63.10:2009. ANSI C63.10:2009.

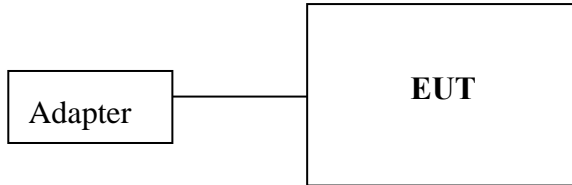
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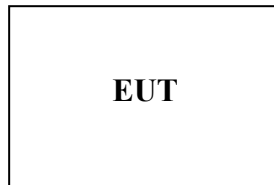
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## 2.4. Configuration of Tested System

**Fig. 2-1 Radiated Emission**



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



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

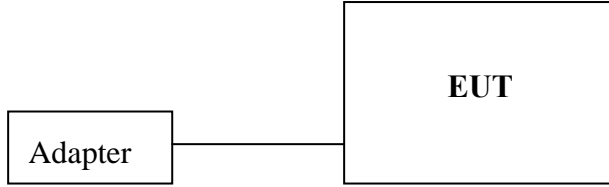
Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	QRCT	2.4.83.0	N/A	N/A	N/A

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**Fig. 2-3 AC Power Line Conducted Emission**



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

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN 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	AC Power Line Conducted Emission	Compliant
§15.407(a) (1) (2)	26 dB Emission Bandwidth	Compliant
§15.407(a) (1) (2)	The Maximum Output Power Measurement	Compliant
§15.407(a) (5)	Peak Power Spectral Density Measurement	Compliant
15.407(a)(6)	Peak Excursion Measurement	Compliant
§15.407(b) (1) (2) (3)	Undesirable Emission – Conducted Measurement	Compliant
§15.407(b) (1) (2) (3)(6) (7)	Undesirable Emission – Radiated Measurement	Compliant
§15.407(c)	Transmission in case of Absence of Information	Compliant
§15.407(g)	Frequency Stability	Compliant
§15.203	Antenna Requirement	Compliant
§15.407(h)	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(5550MHz) 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.

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

Model no, PM-0490-BV, and Model no PM-0480-BV share the equivalently identical enclosure, material of coating, I/O function, PCB board, display, and power source. In addition, PM-0490-BV, and Model no PM-0480-BV implement the same Bluetooth chipset/module with the same antenna that operates with the same transmitted power level. Hence, this given test report contains the identical test results that inherent from PM-0480-BV.

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Remark: While conducting average power measurement, duty cycle of each mode (a/n\_ht20/n\_ht40) shall be greater than 98%. All duty cycle is pre-scanned, but verified to be greater than 98%, where a = 99.7%, n\_HT20&HT40= 99.7%, and n\_ht\_20&n\_ht\_40 = 99.7%, where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

**Formula:**

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

**Test Procedure:**

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

**Duty Cycle:**

	UNII Band 1	UNII Band 2 – Subband1	UNII Band 2 – Subband2
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

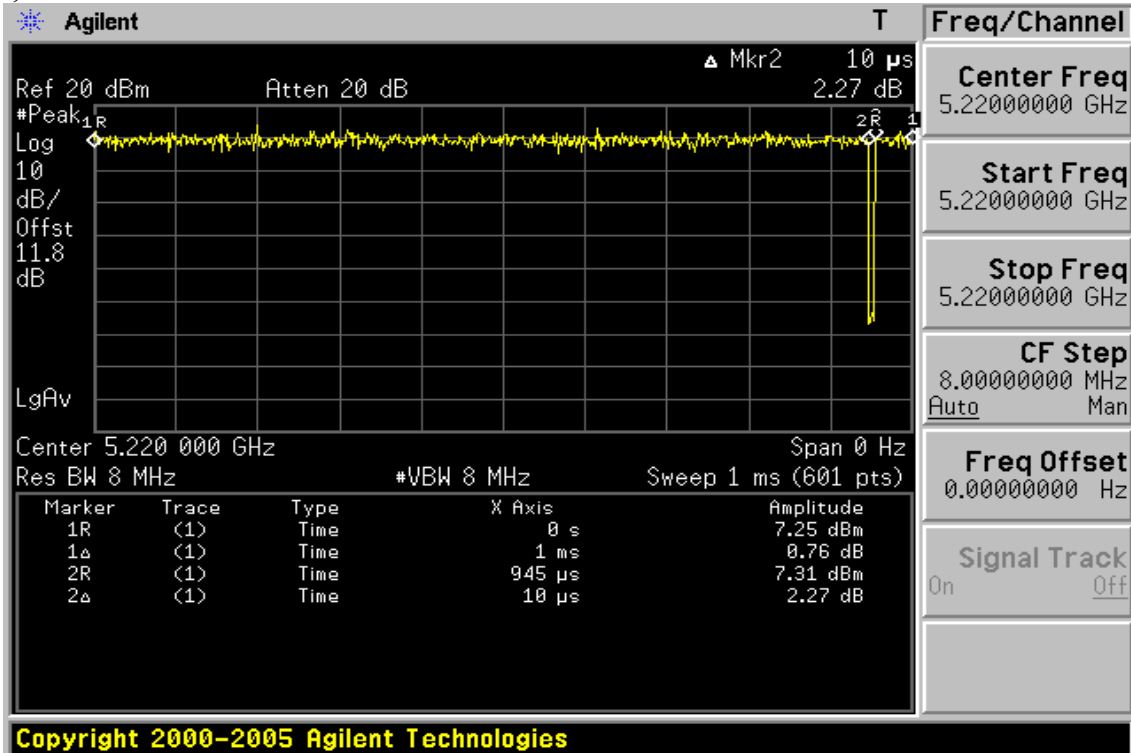
Duty Cycle Factor:  $10 * \log(1/0.997) = 0.013048$

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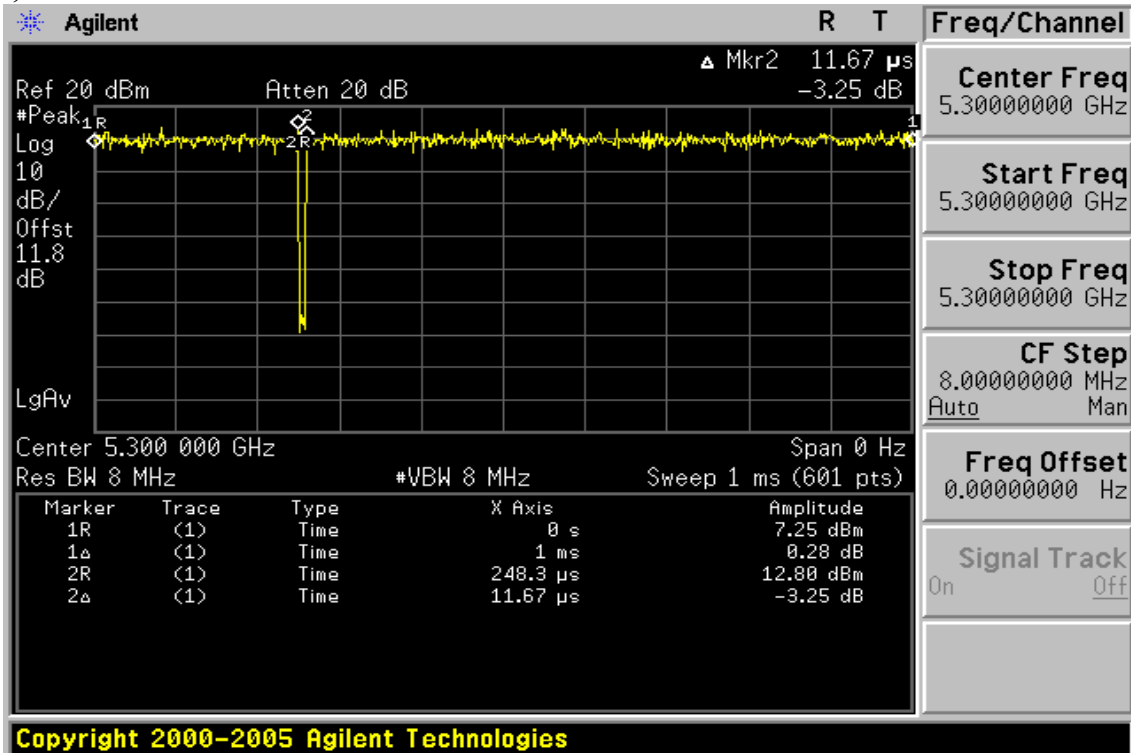
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**DUTY CYCLE OF TEST SIGNAL**  
**802.11a, CH Mid 5220 MHz**



**802.11a, CH Mid 5300 MHz**

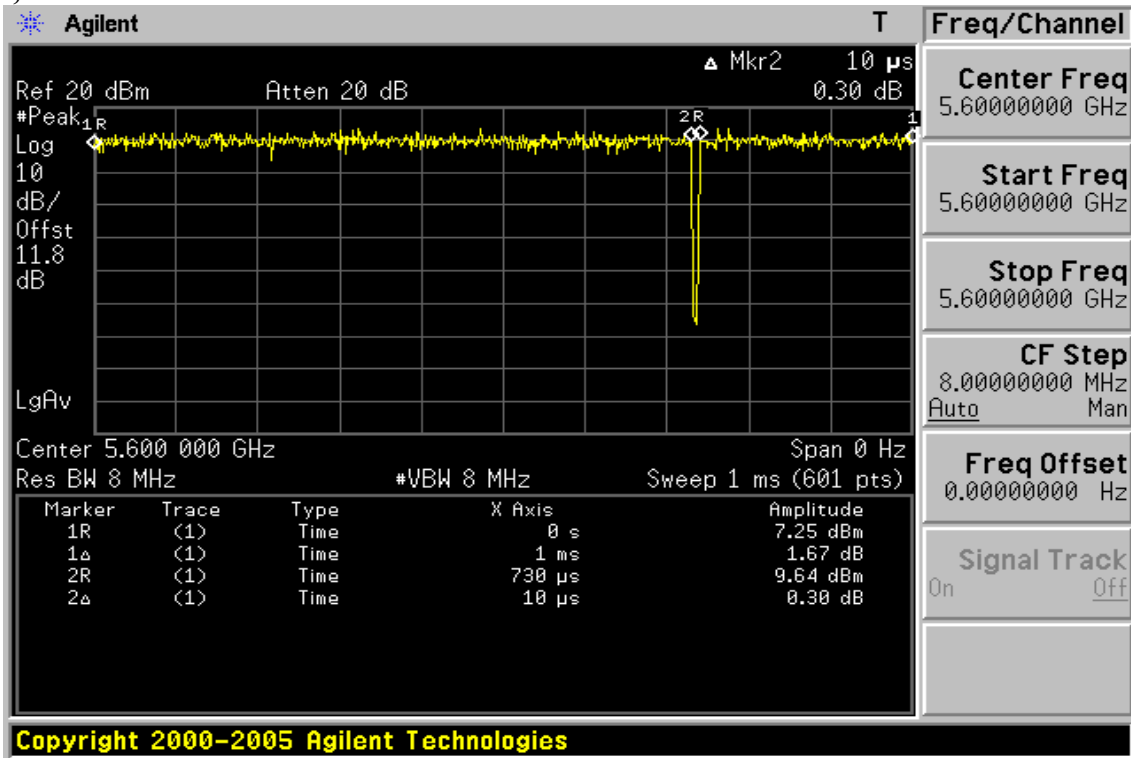


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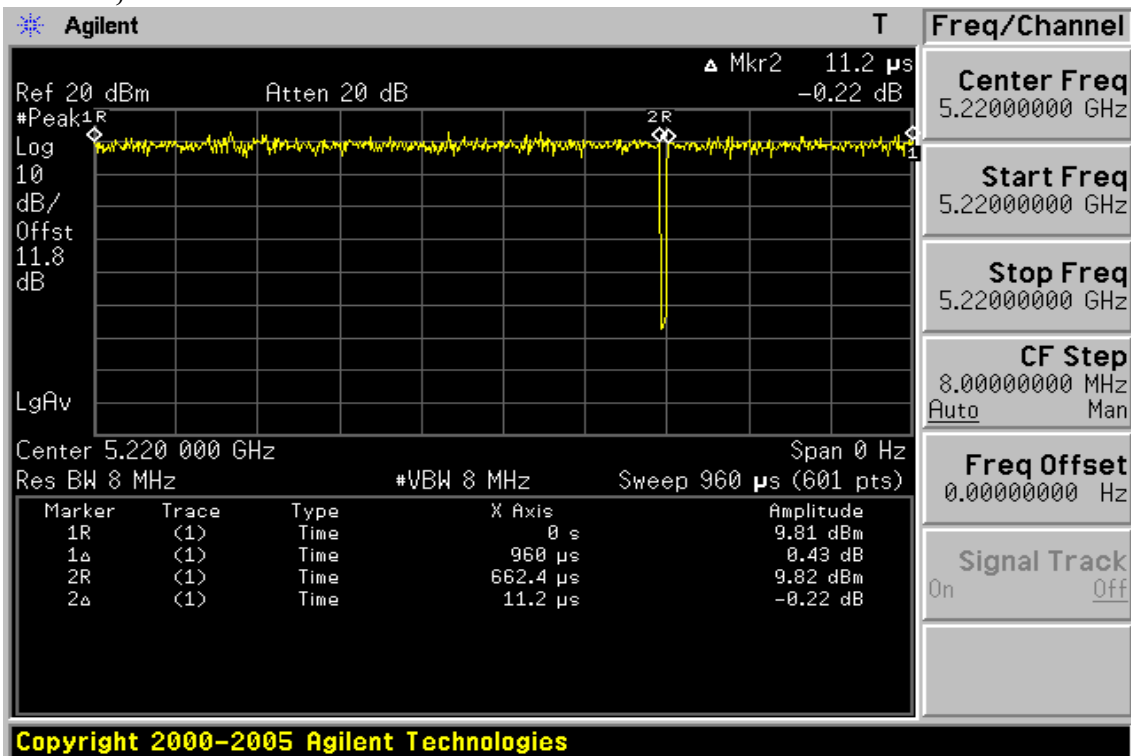
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802.11a, CH Mid 5600 MHz



802.11n HT20, CH Mid 5220 MHz

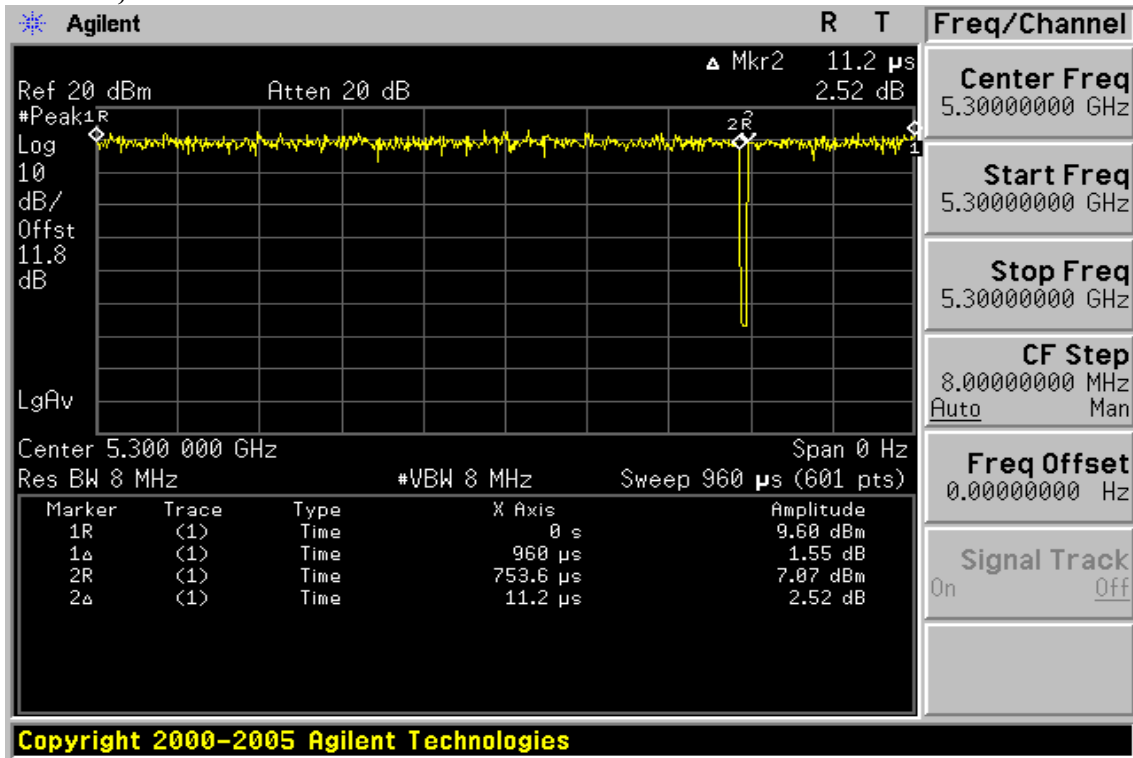


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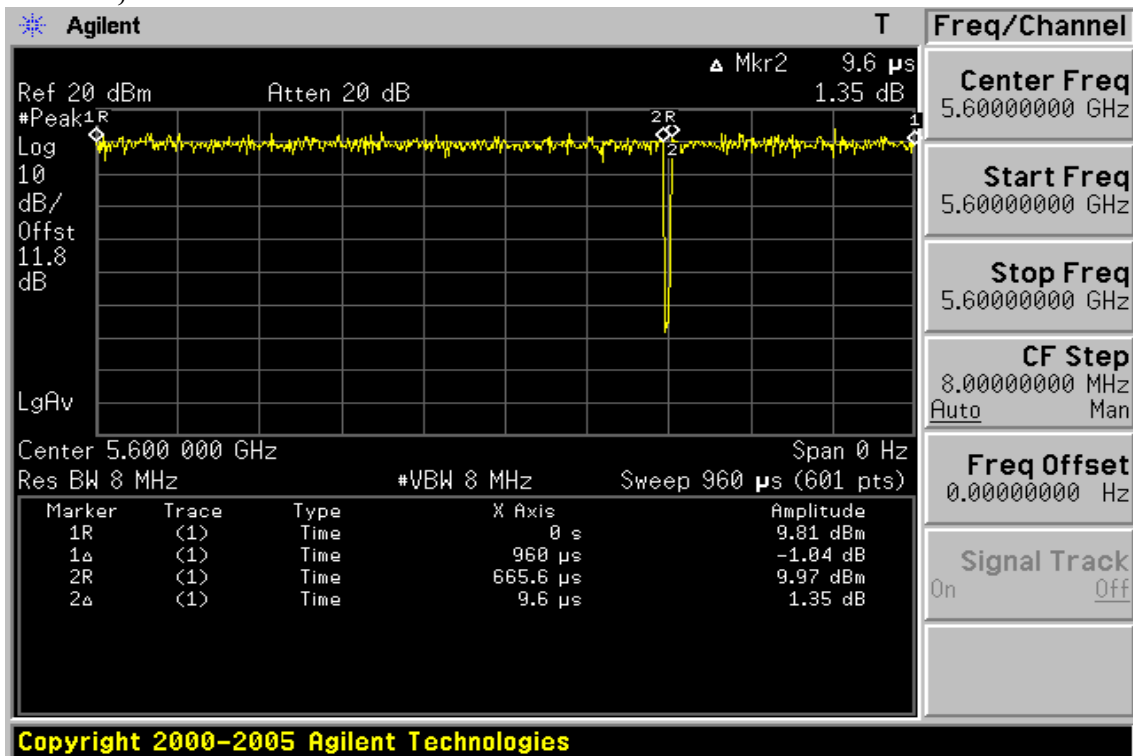
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802.11n HT20, CH Mid 5300 MHz



802.11n HT20, CH Mid 5600 MHz

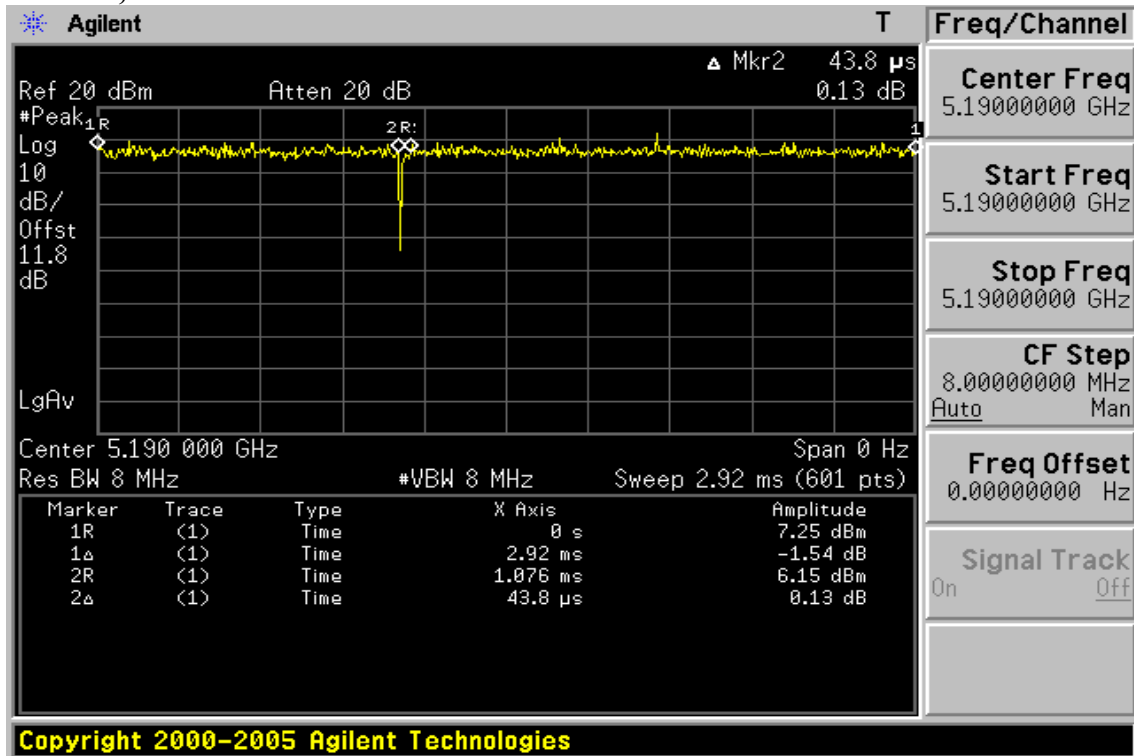


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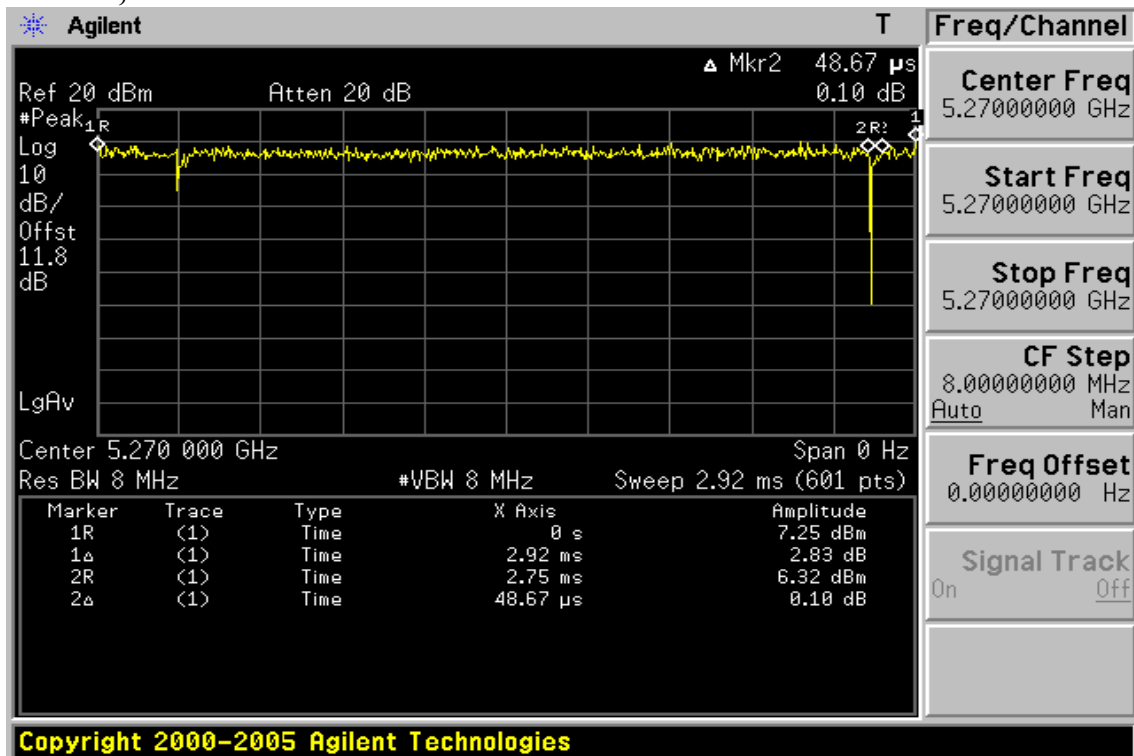
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### 802.11n HT40, CH Low 5190 MHz



### 802.11n HT40, CH Low 5270 MHz

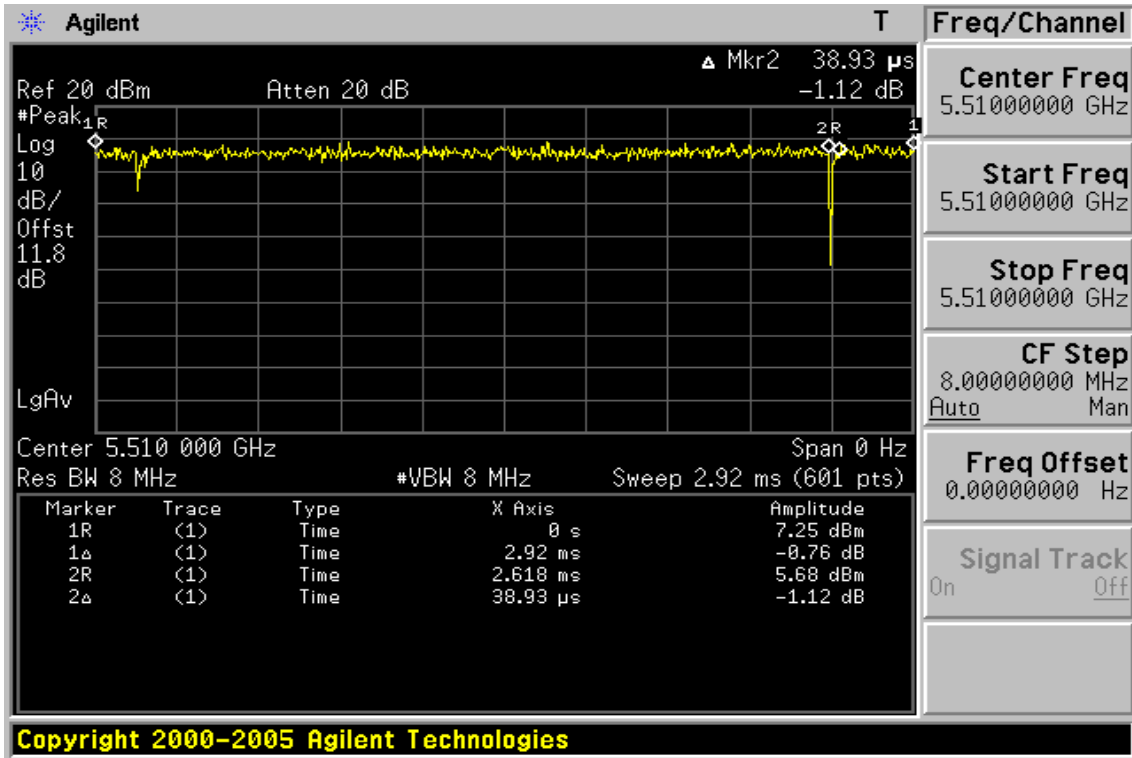


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802.11n HT40, CH Low 5510 MHz



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## 5. MEASUREMENT UNCERTAINTY

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

### Radiated Spurious Emission:

Measurement uncertainty (Polarization : <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, frequency range within 150 KHz to 30 MHz shall not exceed the Limit table as below.

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

Note

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

### 6.2. Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI7	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	03/23/2013	03/22/2014
LISN	FCC	FCC-LISN-50/250-25-2-01	04034	03/23/2013	03/22/2014
Coaxial Cables	N/A	WK CE Cable	N/A	01/05/2013	01/04/2014

### 6.3. EUT Setup

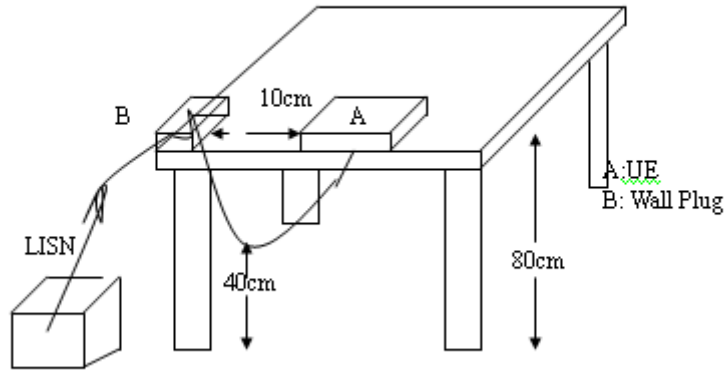
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.4:2009 & ANSI C63.10:2009.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The LISN was connected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

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### 6.4. Test SET-UP (Block Diagram of Configuration)



### 6.5. Measurement Procedure

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

### 6.6. Measurement Result

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

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

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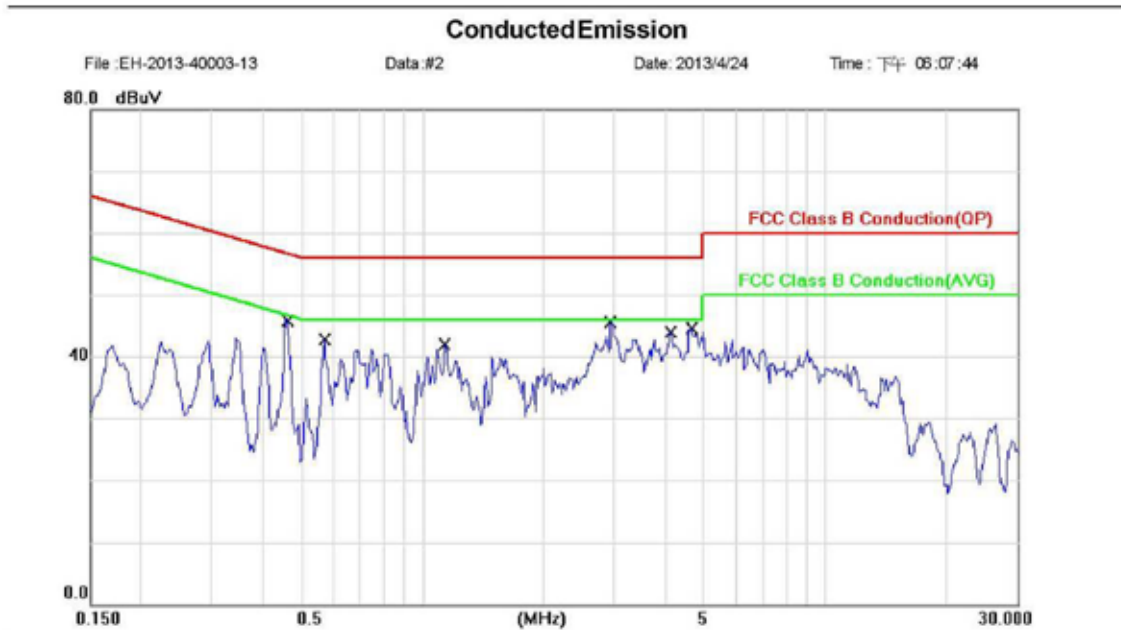
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### AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode		Test Date:	Apr. 24, 2013	
Temperature:	26	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: PDA Phone      Distance:  
 MN: C1905      Mode: Operationmode  
 Note:



No.	Mk.	Freq. (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1		0.4681	37.79	0.07	37.86	56.55	-18.69	QP	
2		0.4681	27.37	0.07	27.44	46.55	-19.11	AVG	
3		0.5703	22.96	0.08	23.04	56.00	-32.96	QP	
4		0.5703	18.65	0.08	18.73	46.00	-27.27	AVG	
5	*	1.1406	41.78	0.08	41.86	56.00	-14.14	QP	
6		2.9336	31.45	0.10	31.55	56.00	-24.45	QP	
7		2.9336	20.71	0.10	20.81	46.00	-25.19	AVG	
8		4.1406	33.27	0.12	33.39	56.00	-22.61	QP	
9		4.1406	21.85	0.12	21.97	46.00	-24.03	AVG	
10		4.6523	33.13	0.13	33.26	56.00	-22.74	QP	
11		4.6523	23.59	0.13	23.72	46.00	-22.28	AVG	

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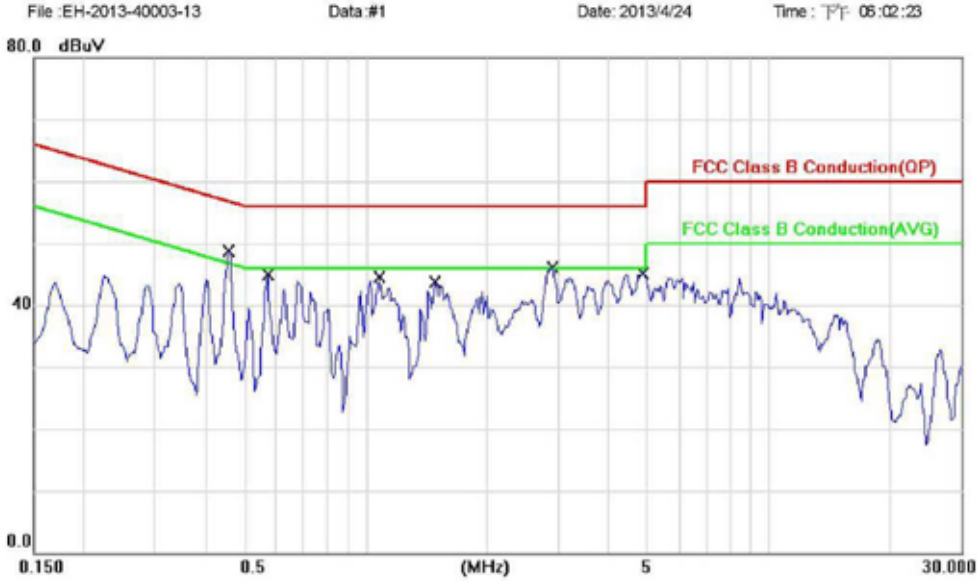
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Site: ConductionRoom  
 Limit: FCC Class B Conduction(QP)  
 EUT: PDA Phone  
 MN: C1905  
 Note:

Phase: N  
 Power: AC 120V/60Hz  
 Distance:  
 Mode: Operationmode

Temperature: 26 °C  
 Humidity: 60%

ConductedEmission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.4586	47.21	0.12	47.33	56.72	-9.39	QP	
2	*	0.4586	41.62	0.12	41.74	46.72	-4.98	AVG	
3		0.5703	42.78	0.14	42.92	56.00	-13.08	QP	
4		0.5703	37.22	0.14	37.36	46.00	-8.64	AVG	
5		1.0781	38.71	0.16	38.87	56.00	-17.13	QP	
6		1.0781	30.31	0.16	30.47	46.00	-15.53	AVG	
7		1.4805	38.88	0.16	39.04	56.00	-16.96	QP	
8		1.4805	29.48	0.16	29.64	46.00	-16.36	AVG	
9		2.9141	40.99	0.17	41.16	56.00	-14.84	QP	
10		2.9141	31.72	0.17	31.89	46.00	-14.11	AVG	
11		4.8711	38.96	0.20	39.16	56.00	-16.84	QP	
12		4.8711	29.23	0.20	29.43	46.00	-16.57	AVG	

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## 7. 26dB EMISSION BANDWIDTH MEASUREMENT

### 7.1 Standard Applicable

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

### 7.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the Antenna port to the spectrum analyzer.
- 3.
- a. 26dB Band width Measurement: Set the spectrum analyzer as 1% of emission BW Sweep=auto, Detector = Peak, Trace Mode = Max Hold, Manually readjust RBW until the RBW/EBW ratio is 1% based on EBW as observed on the result of pre-sequence measurement.
4. Repeat the procedures as list above until all test default channels (low, middle, and high) are completed.

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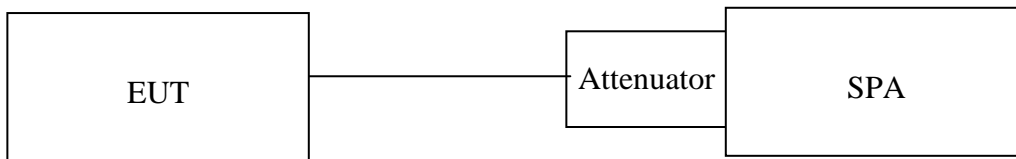
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**7.3 Measurement Equipment Used:**

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power 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	24.955	13.97
5220	24.312	13.86
5240	24.951	13.97

802.11a, 5250~5350 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5260	24.017	13.81
5300	24.880	13.96
5320	24.627	13.91

802.11a, 5470~5725 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5500	21.552	13.33
5580	21.642	13.35
5700	21.905	13.41

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802.11n HT20, 5150~5250 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5180	24.326	13.86
5220	24.268	13.85
5240	24.826	13.95

802.11n HT20, 5250~5350 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5260	24.752	13.94
5300	24.816	13.95
5320	24.222	13.84

802.11n HT20, 5470~5725 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5500	22.140	13.45
5580	23.445	13.70
5700	23.174	13.65

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802.11n HT40, 5150~5250 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5190	75.353	18.77
5230	59.728	17.76

802.11n HT40, 5250~5350 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5270	60.834	17.84
5310	62.453	17.96

802.11n HT40, 5470~5725 MHz

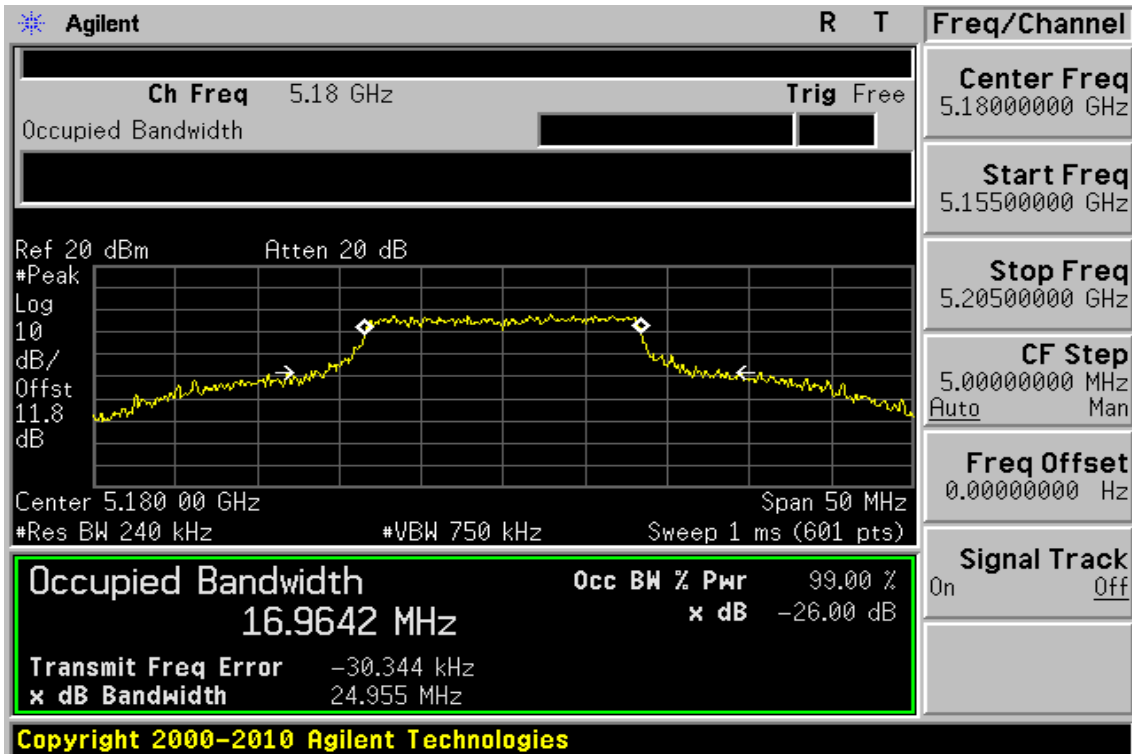
Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5510	41.331	16.16
5550	42.236	16.26
5670	42.378	16.27

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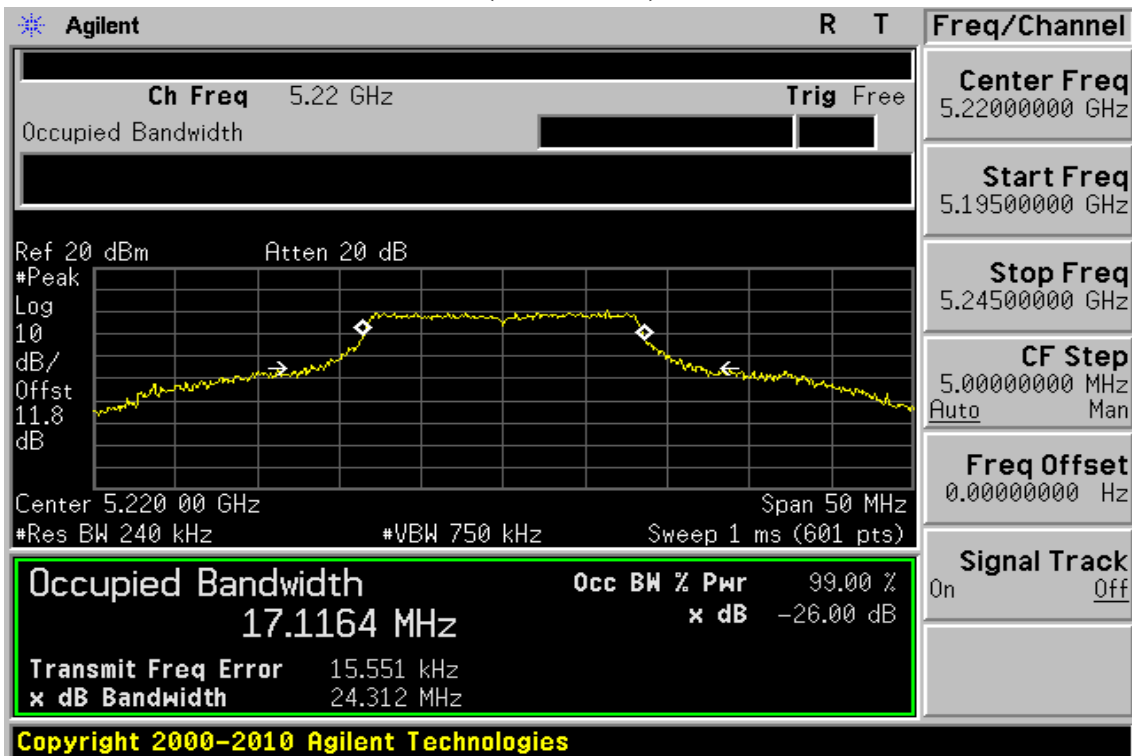
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**802.11a, 5150~5250 MHz**  
**26dB Band Width Test Data CH-Low (5180MHz)**

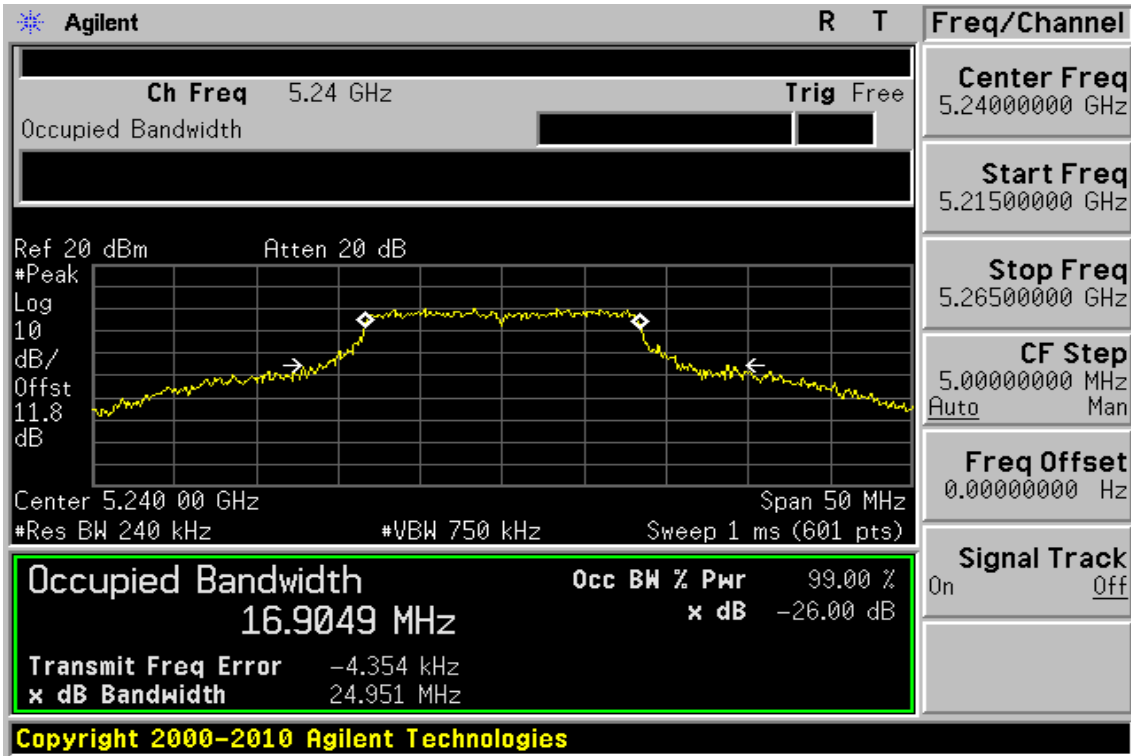


**26dB Band Width Test Data CH-Mid (5220MHz)**



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

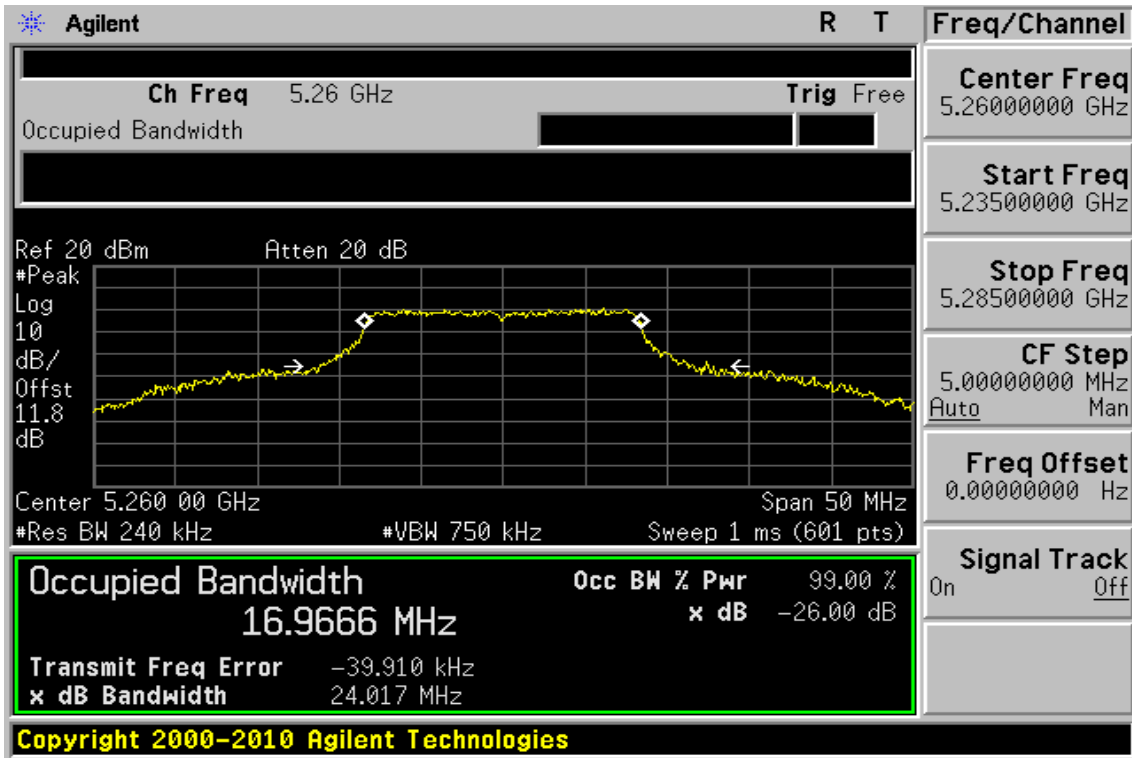


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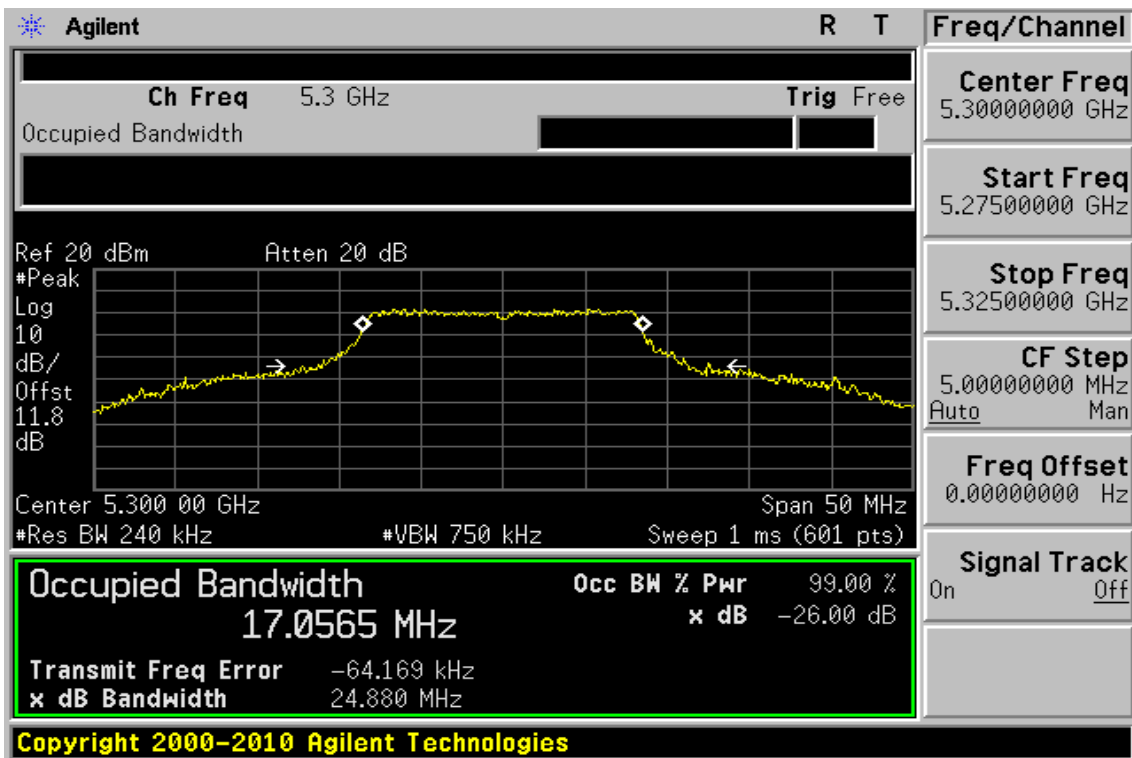
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**802.11a, 5250~5350 MHz**  
**26dB Band Width Test Data CH-Low (5260MHz)**



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

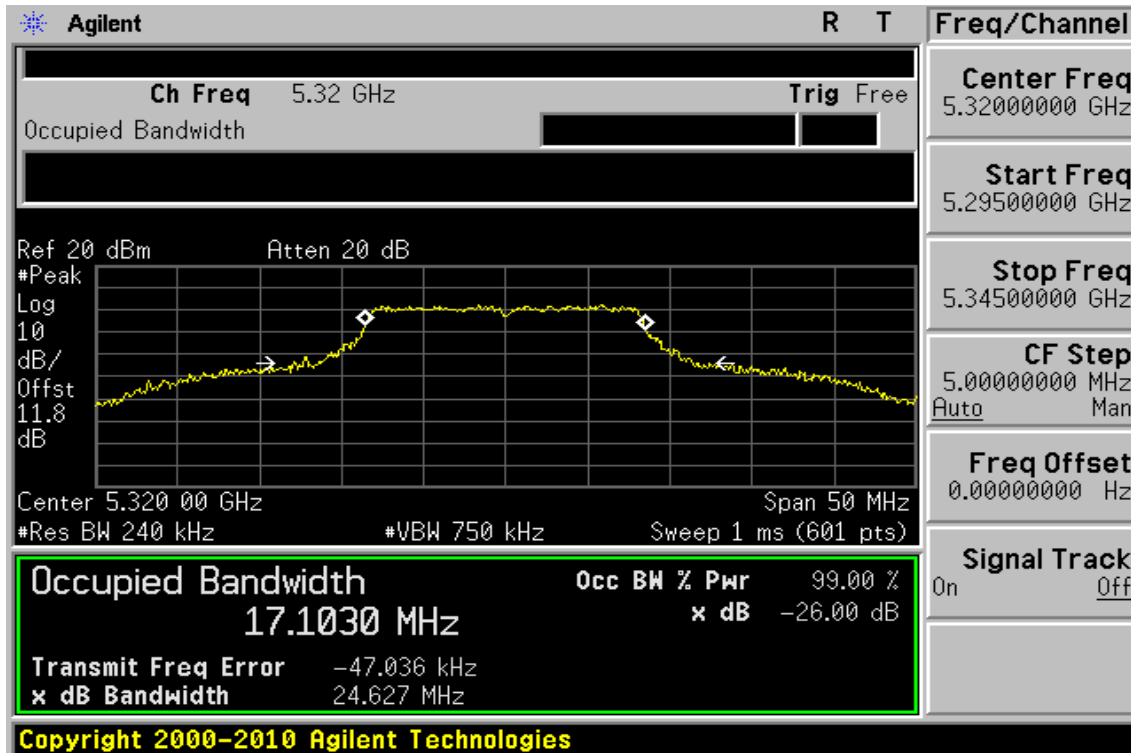


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**26dB Band Width Test Data CH-High (5320MHz)**

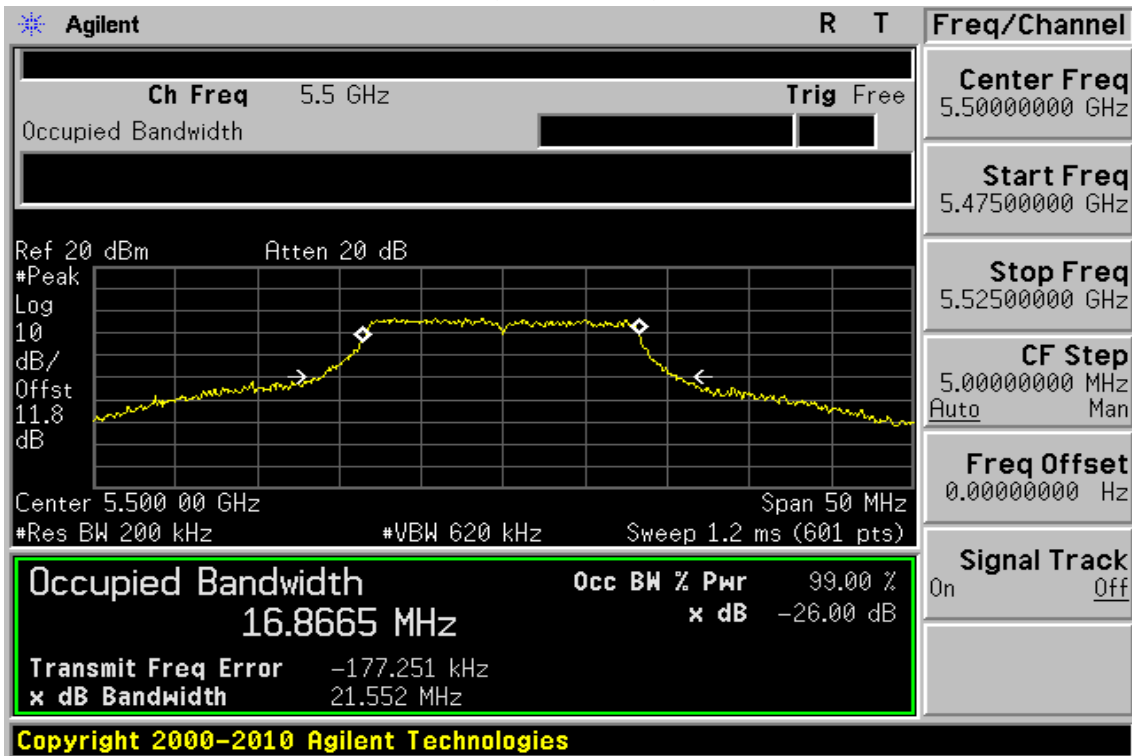


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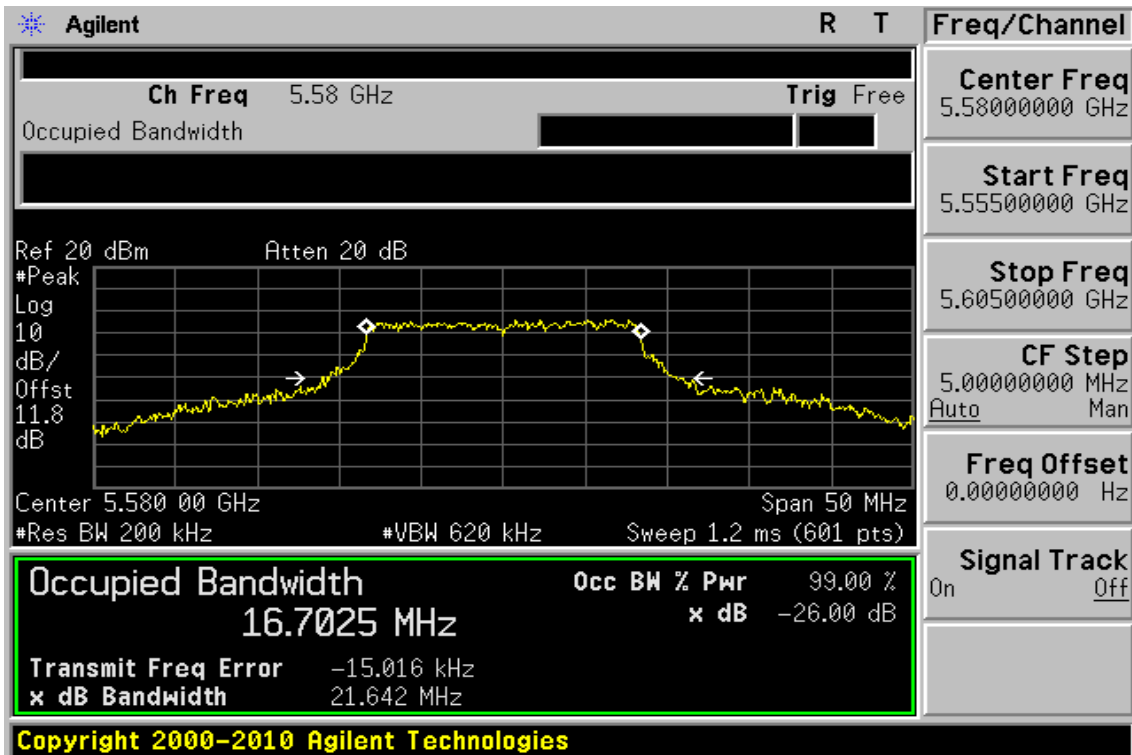
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**802.11a, 5470~5725 MHz**  
**26dB Band Width Test Data CH-Low (5500MHz)**



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

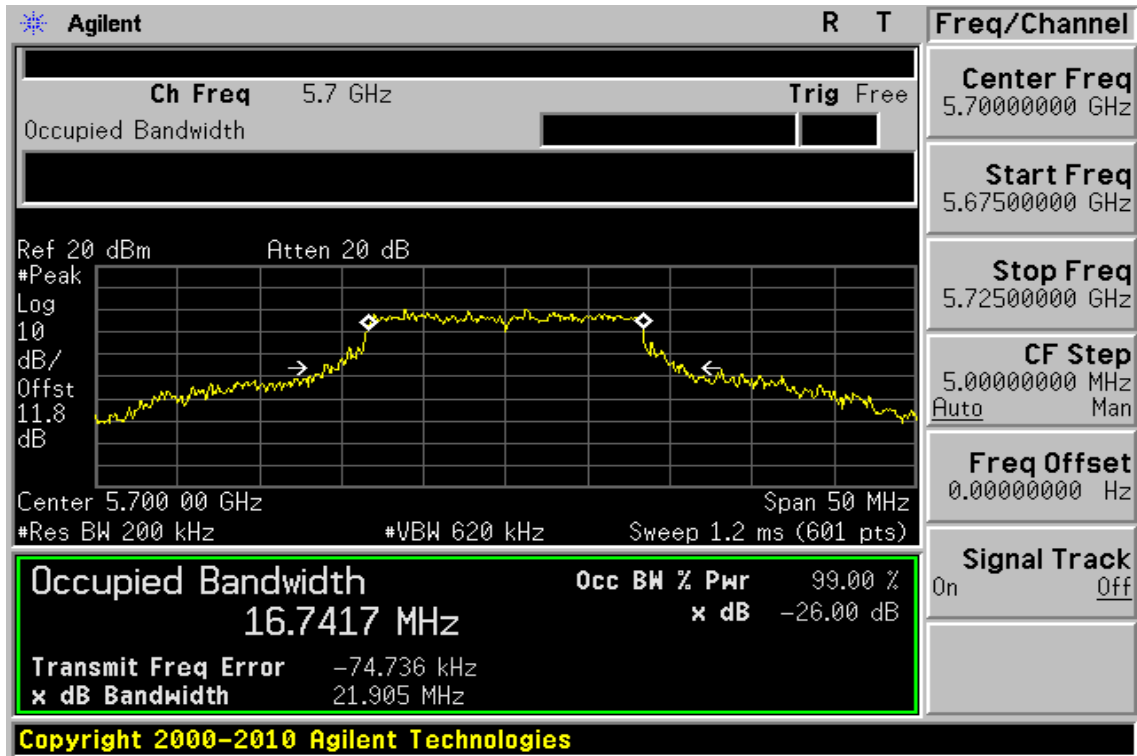


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**26dB Band Width Test Data CH-High (5700MHz)**



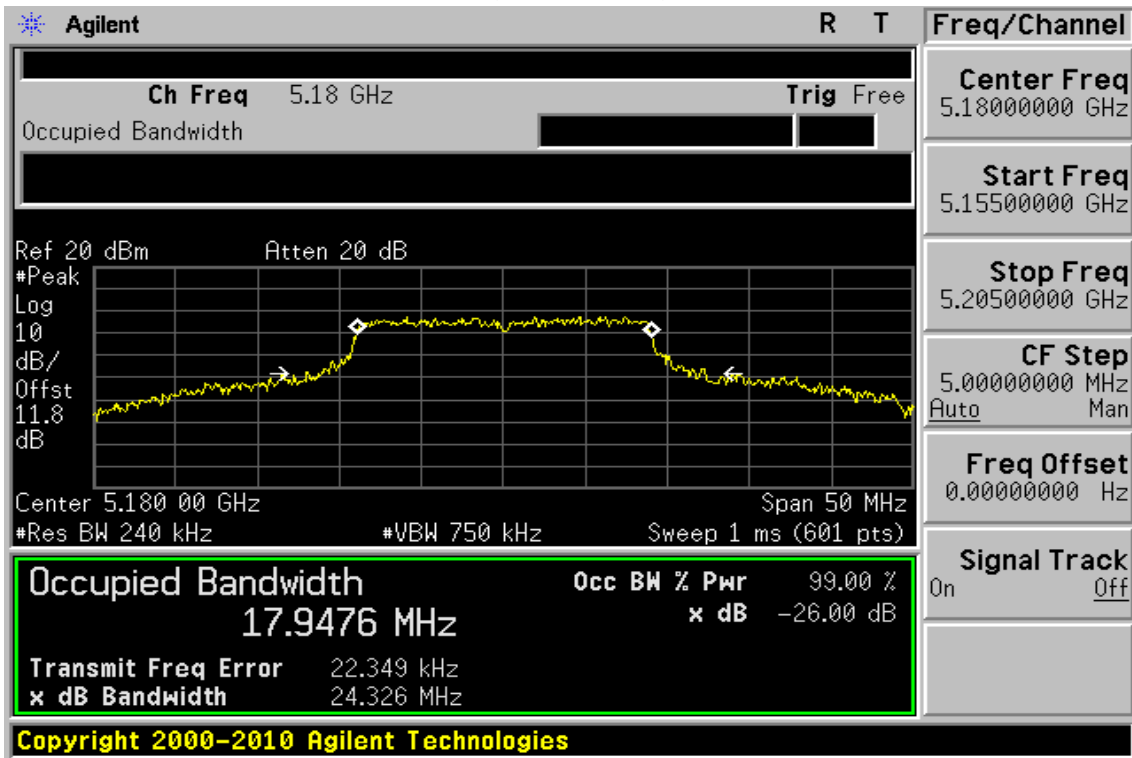
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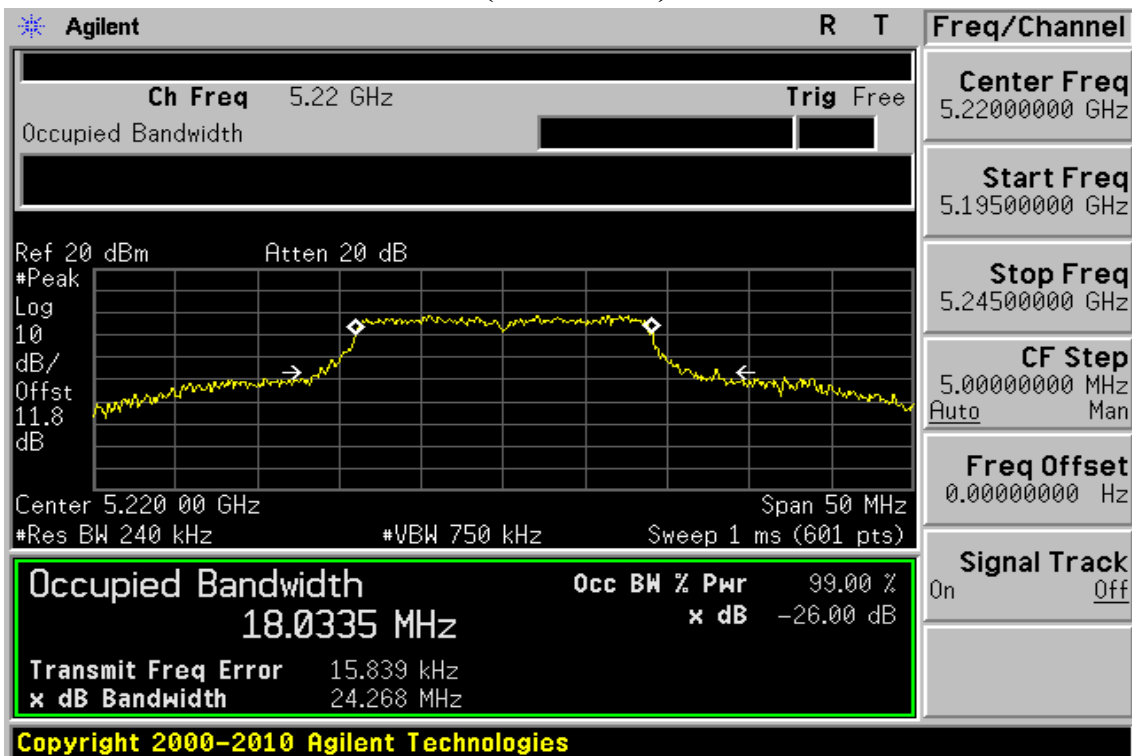
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**802.11n HT20, 5150~5250 MHz**  
**26dB Band Width Test Data CH-Low (5180 MHz)**



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

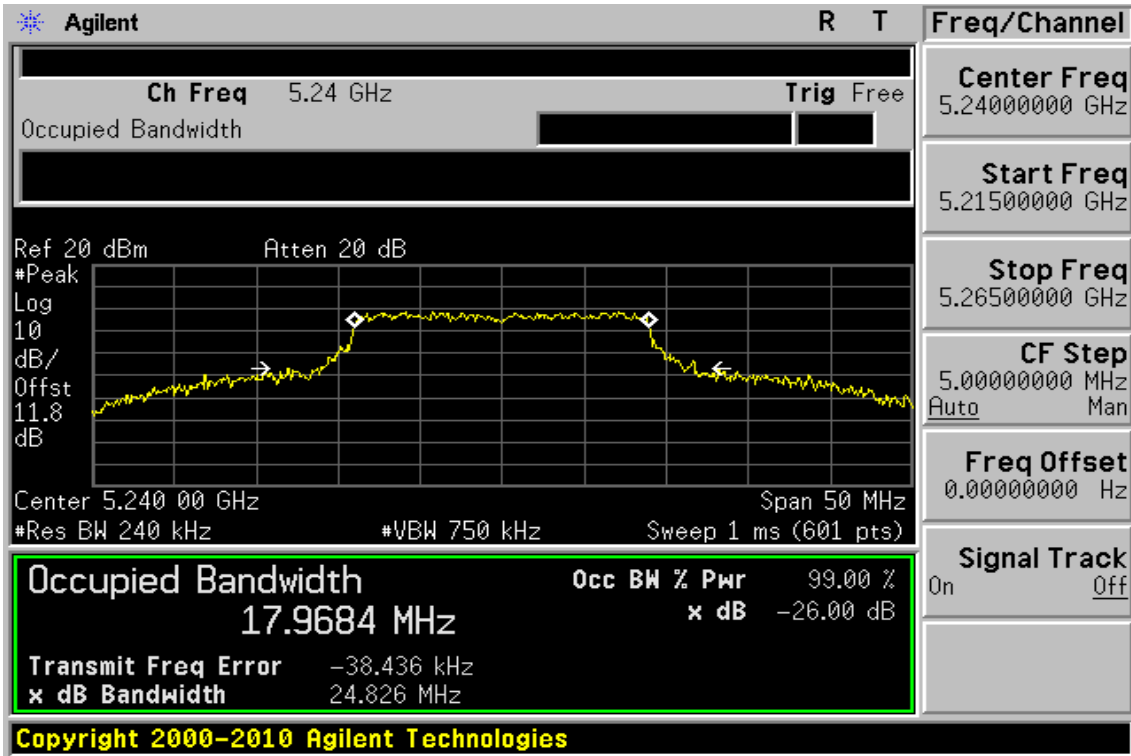


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### 26dB Band Width Test Data CH-High (5240 MHz)

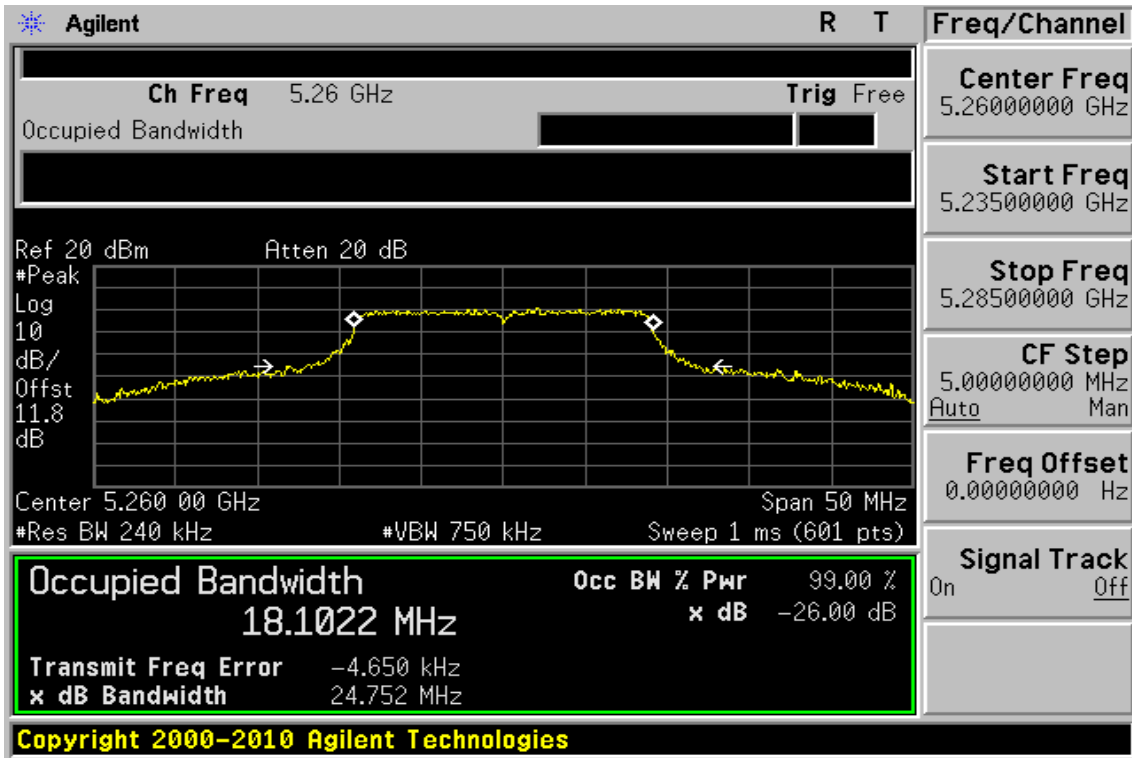


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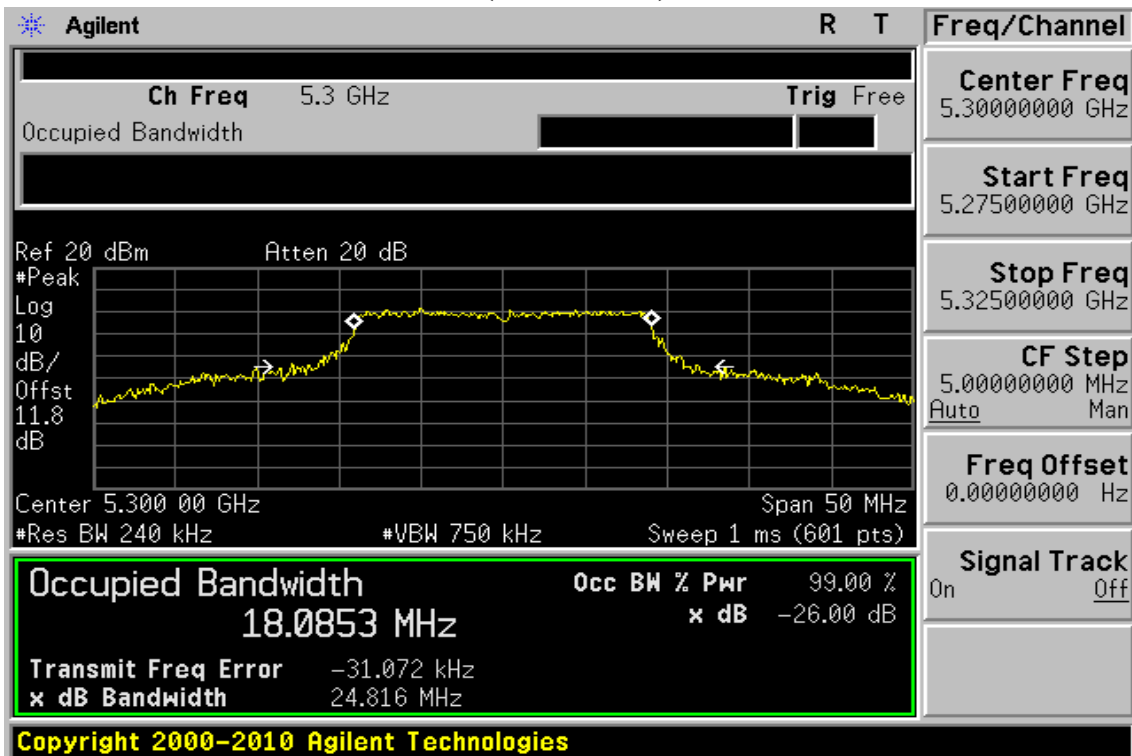
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**802.11n HT20, 5250~5350 MHz**  
**26dB Band Width Test Data CH-Low (5260 MHz)**



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

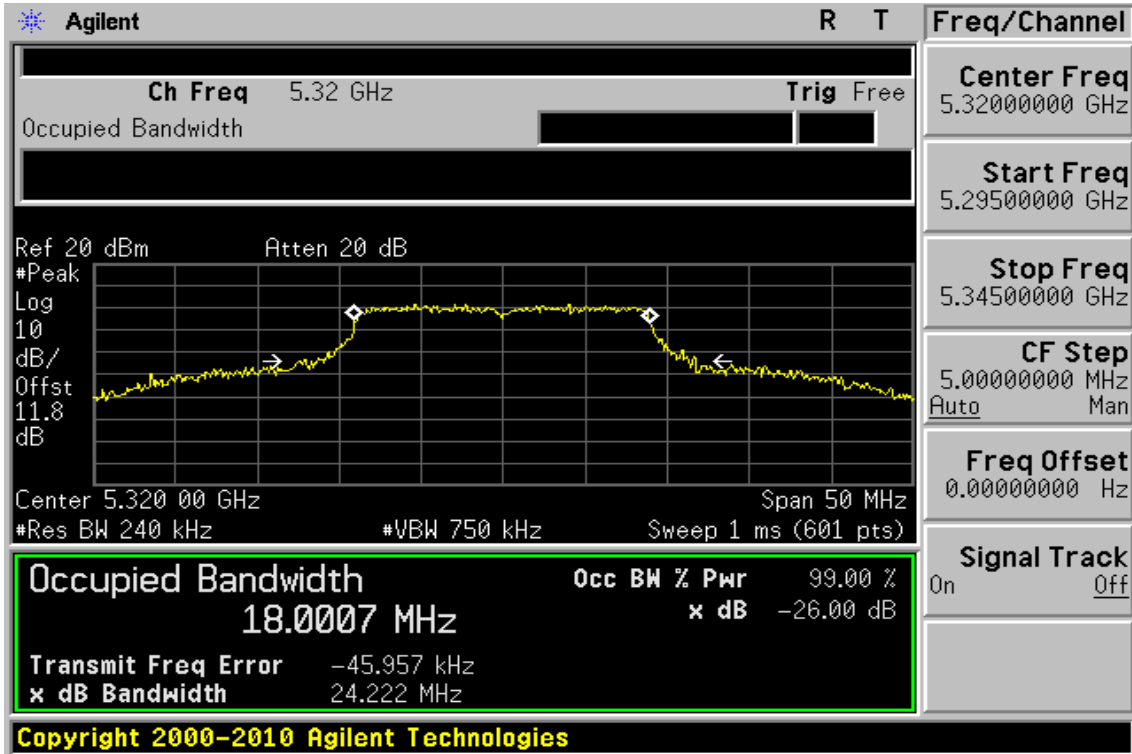


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### 26dB Band Width Test Data CH-High (5320 MHz)

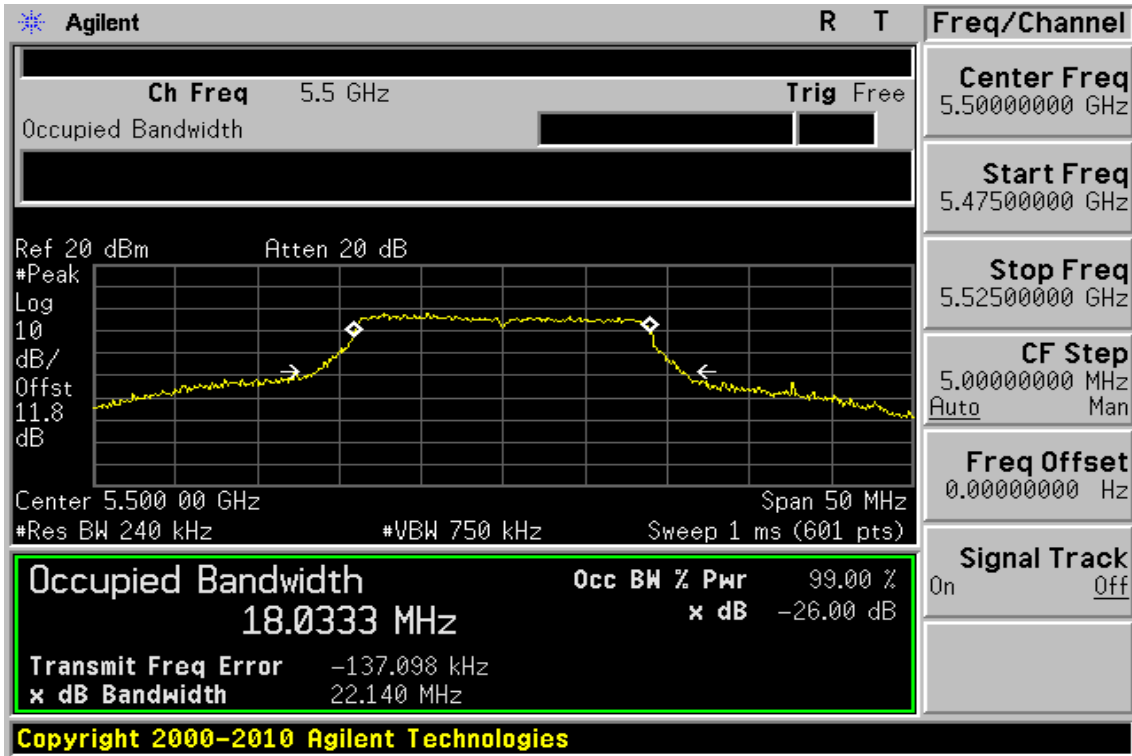


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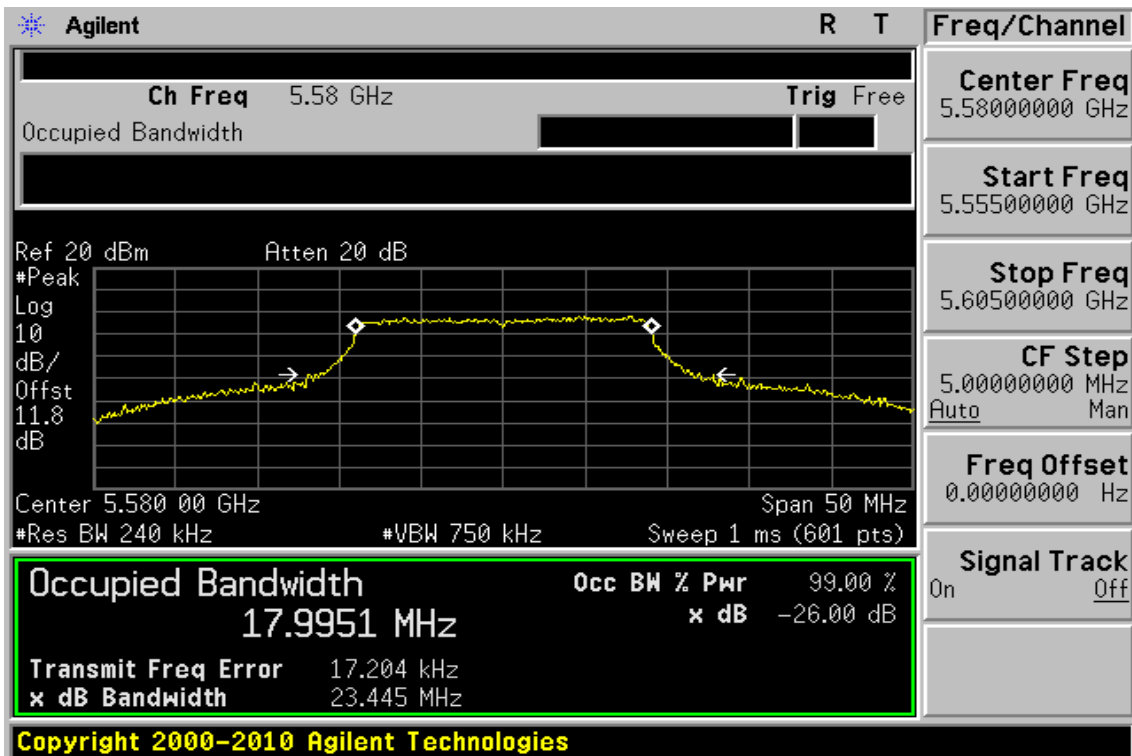
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**802.11n HT20, 5470~5725 MHz**  
**26dB Band Width Test Data CH-Low (5500 MHz)**



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

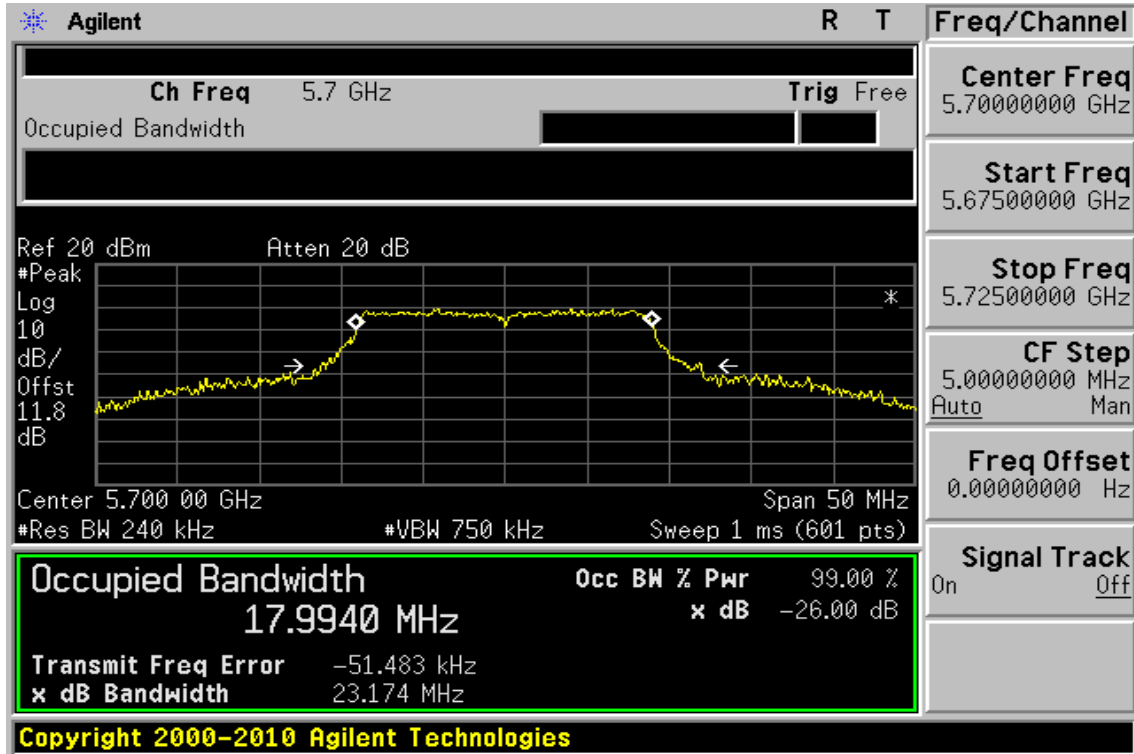


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### 26dB Band Width Test Data CH-High (5700 MHz)

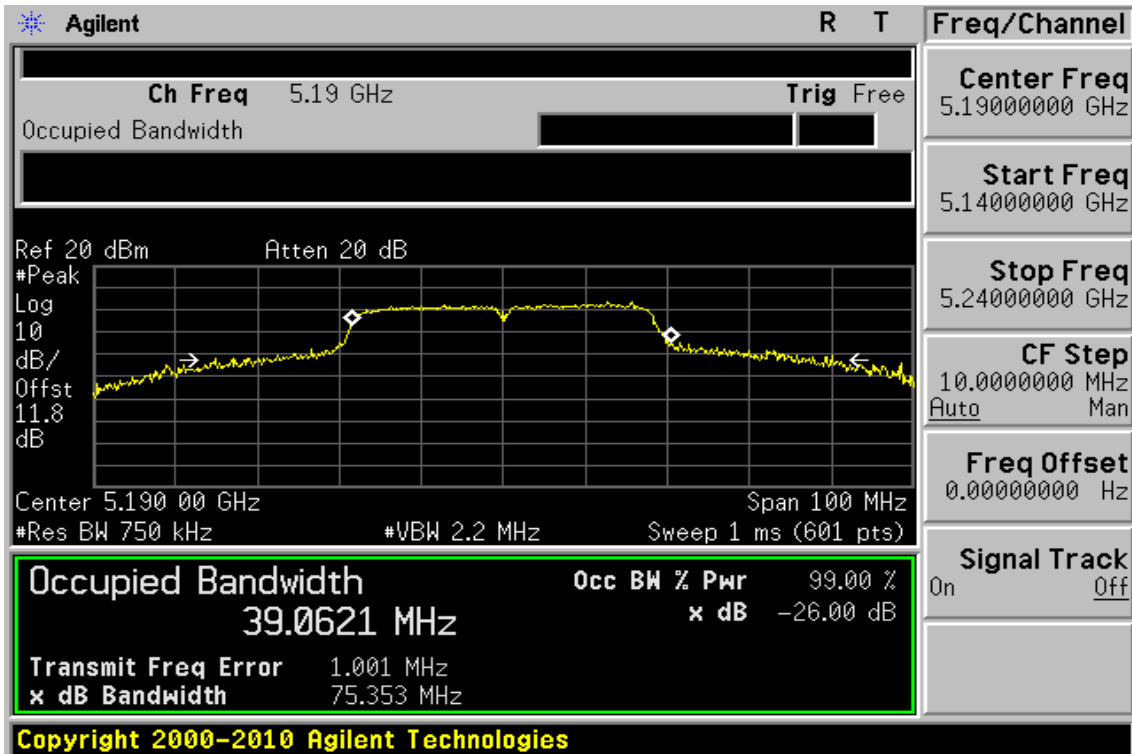


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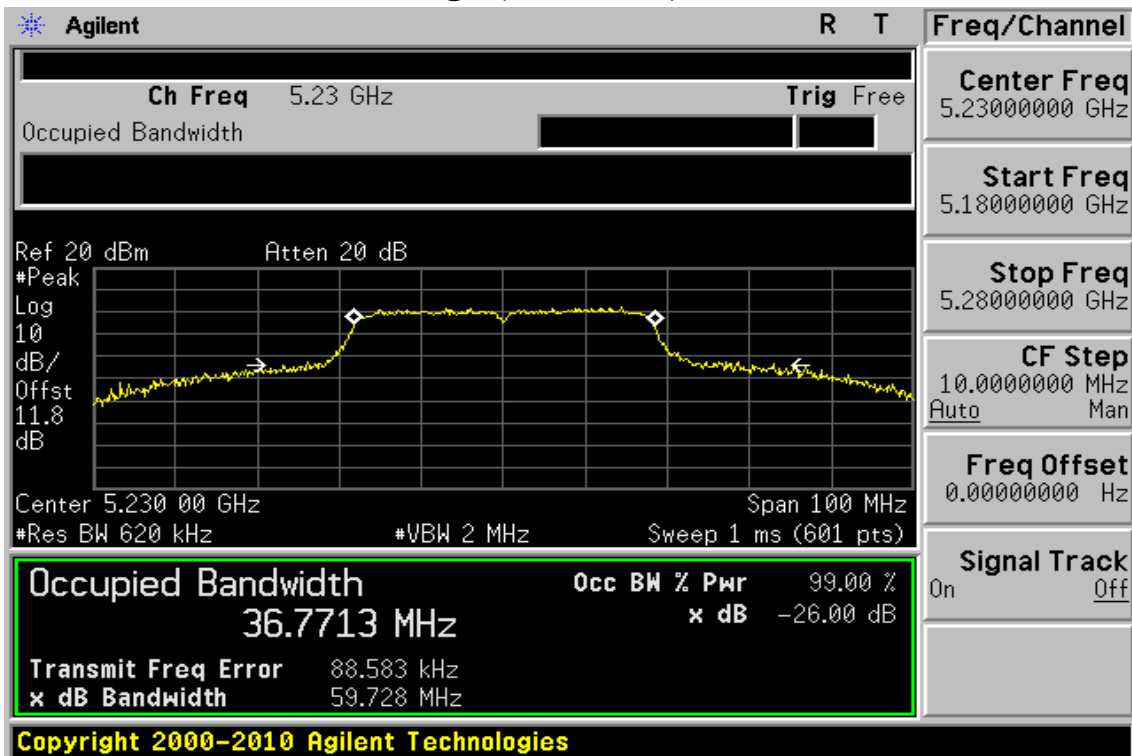
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**802.11n HT40, 5150~5250 MHz**  
**26dB Band Width Test Data CH-Low (5190 MHz)**



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

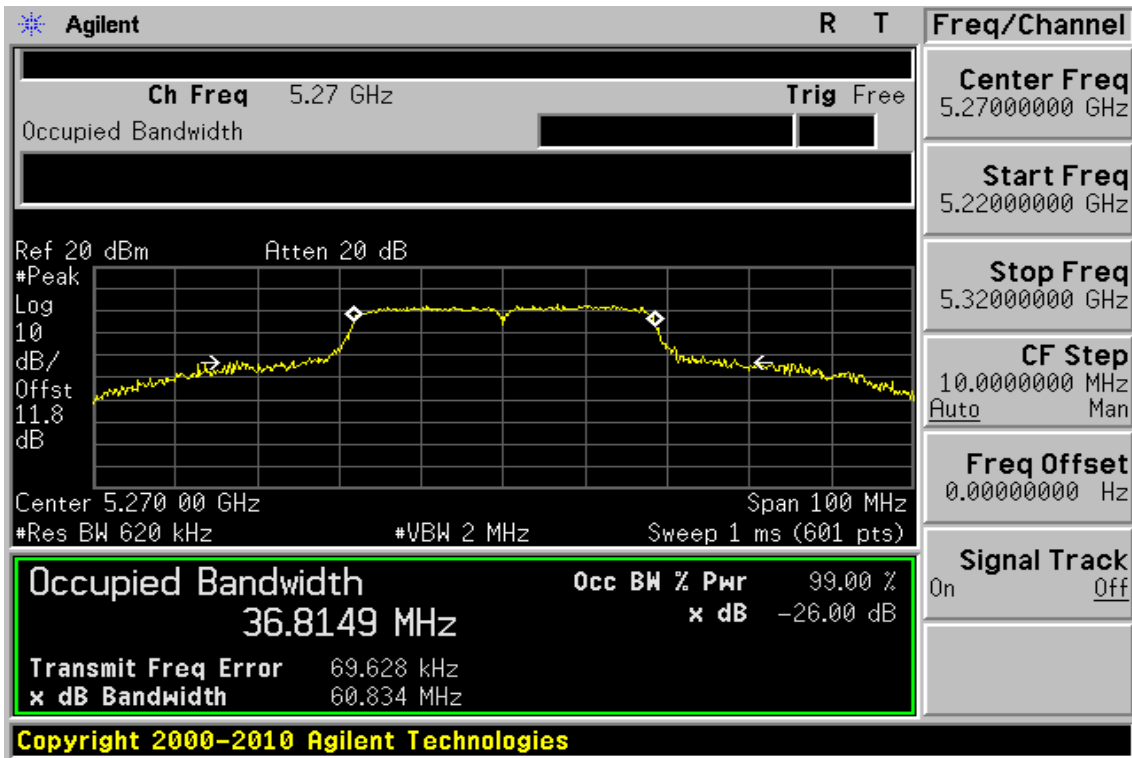


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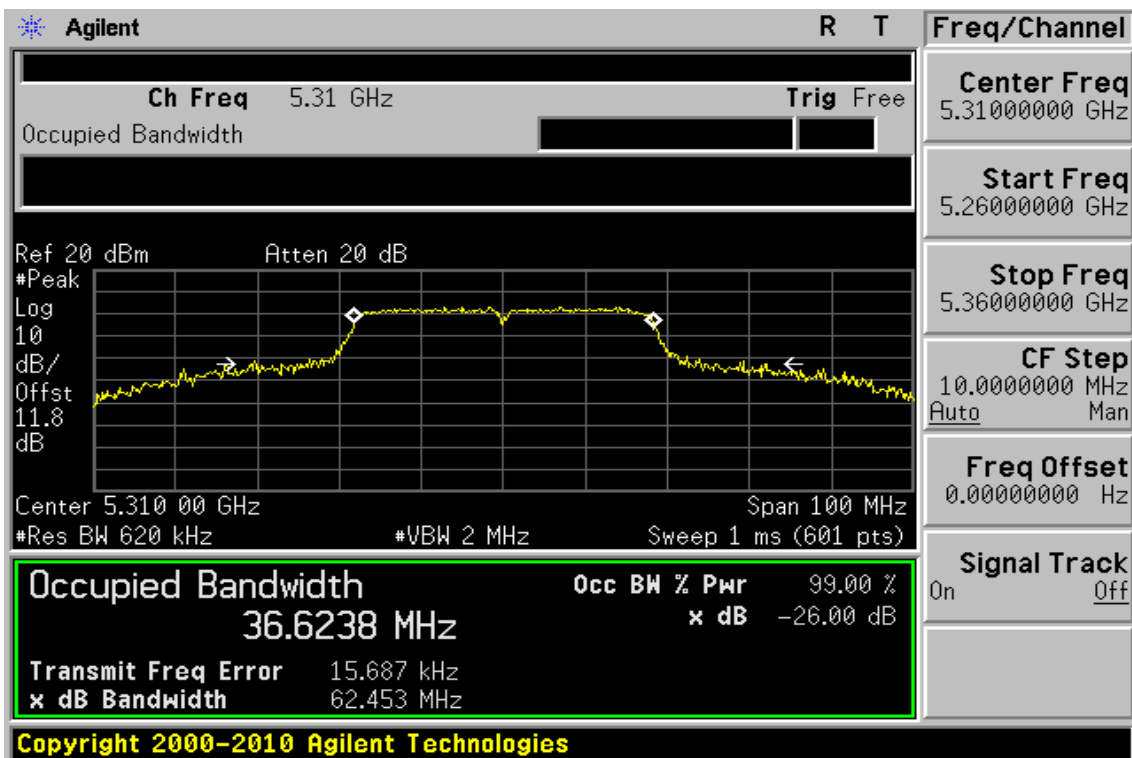
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**802.11n HT40, 5250~5350 MHz**  
**26dB Band Width Test Data CH-Low (5270 MHz)**



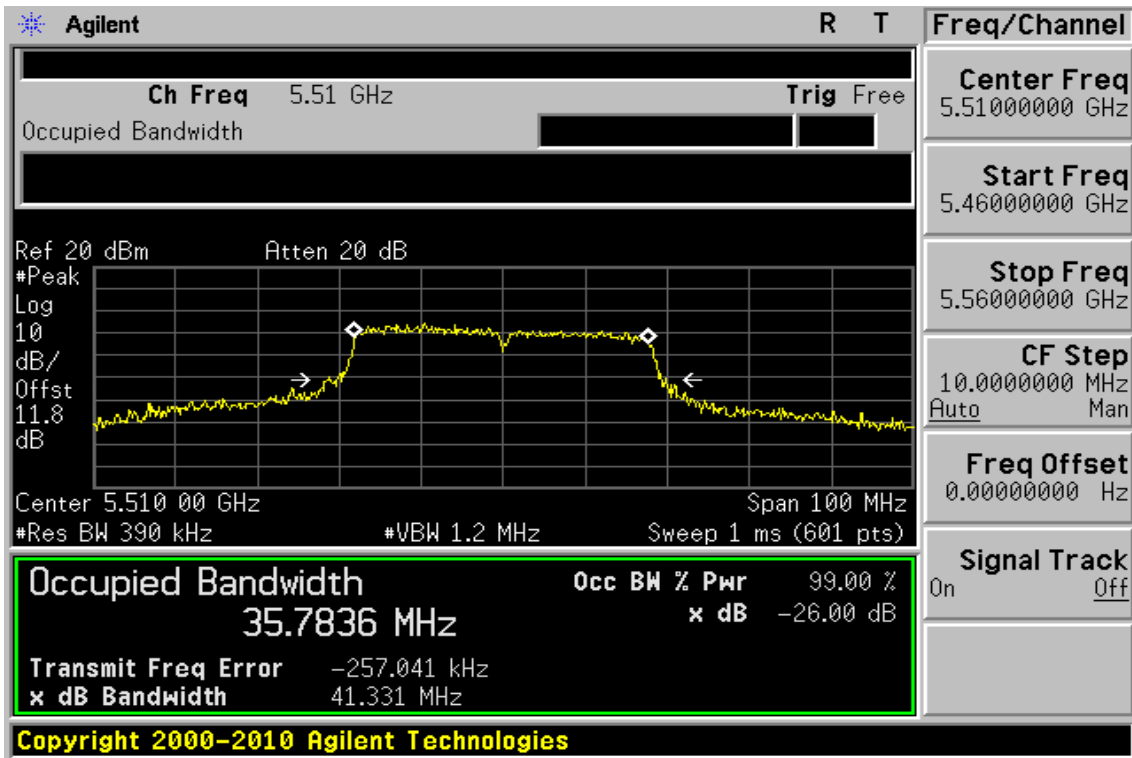
**26dB Band Width Test Data CH-High (5310MHz)**



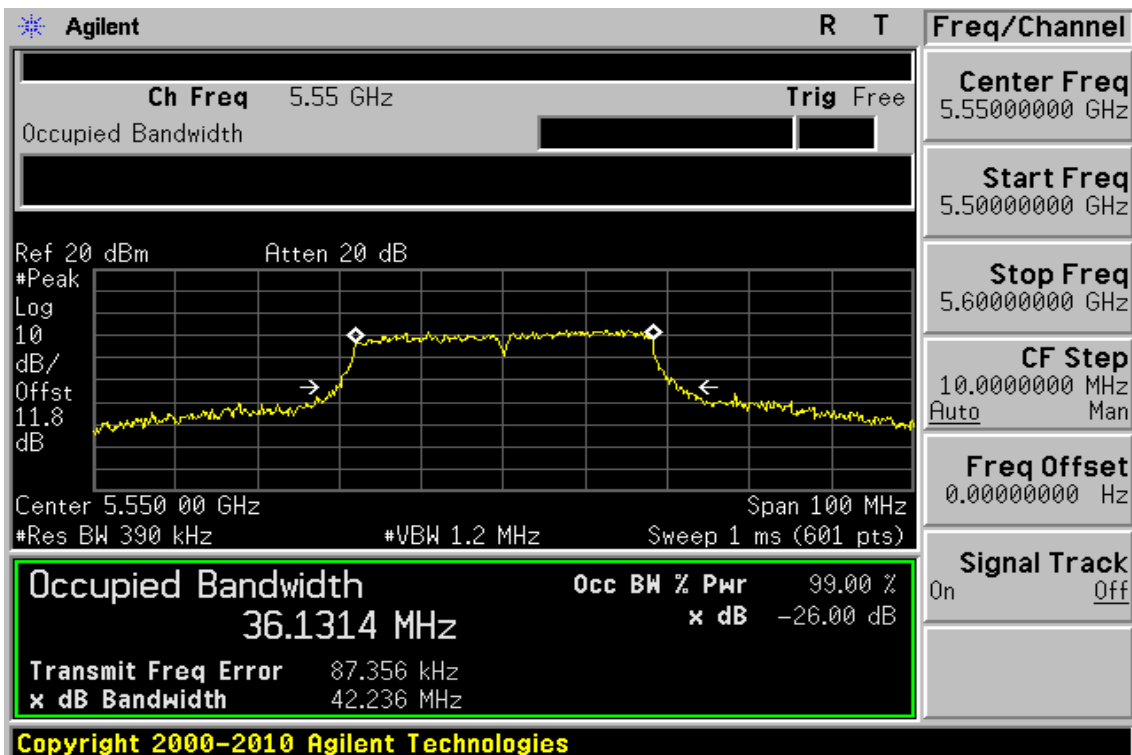
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**802.11n HT40, 5470~5725 MHz**  
**26dB Band Width Test Data CH-Low (5510 MHz)**



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

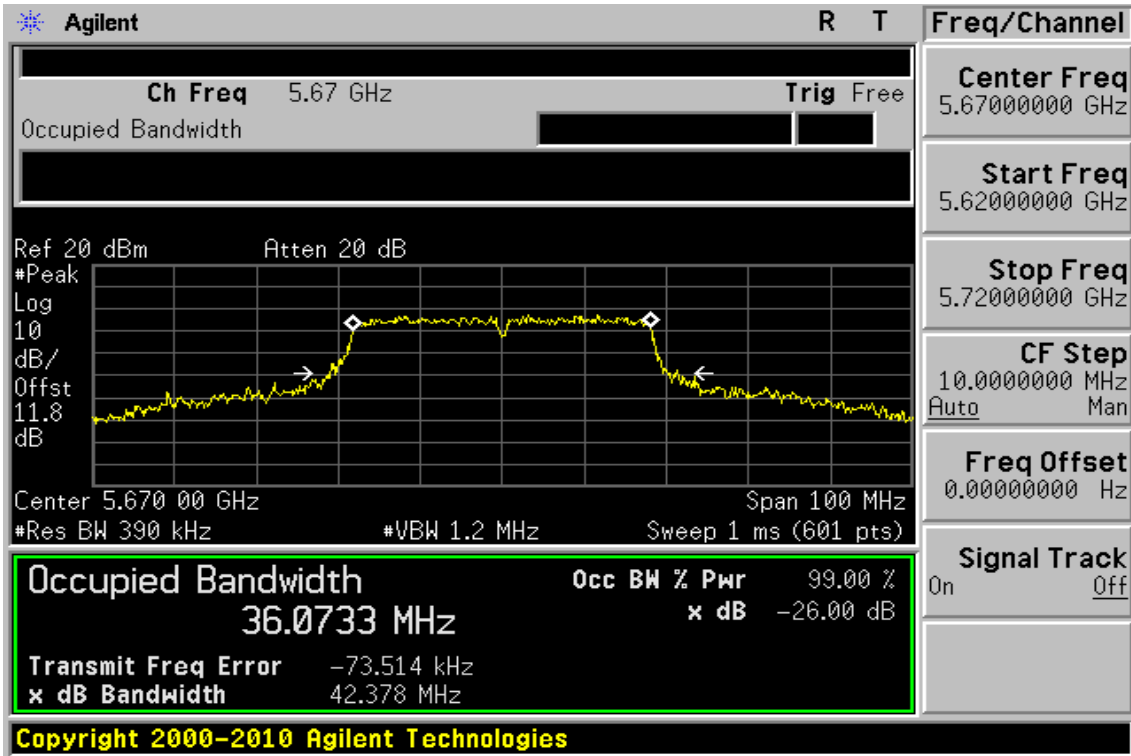


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### 26dB Band Width Test Data CH-High (5670 MHz)



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## 8. THE MAXIMUM 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  $17 \text{ dBm} + 10\log B$ .

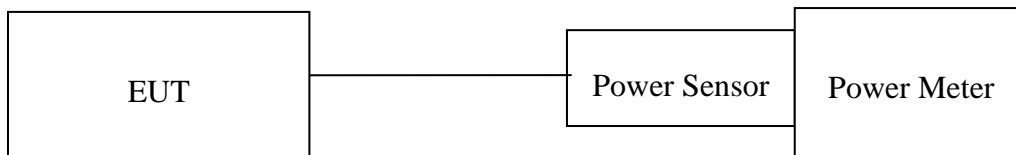
### 8.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
3. Set the offset  $10 \cdot \log(1/x)$  ( $x=0.997$ ), 0.013048 approximately
4. Record the max. reading.
5. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

### 8.3 Measurement Equipment Used:

Refer to section 7.3 for details.

### 8.4 Test Set-up:



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### 8.5 Measurement Result

802.11a

Cable loss = 0		The Maximum Output Power								Required Limit
CH	Frequency (MHz)	Data Rate								
		6	9	12	18	24	36	48	54	
36	5180	12.58	12.55	12.53	12.51	12.48	12.47	12.46	12.44	16.99dBm or 4+10log(B) = 17.97dBm
44	5220	<b>12.85</b>	12.83	12.81	12.78	12.75	12.73	12.71	12.69	16.99dBm or 4+10log(B) = 17.86dBm
48	5240	12.80	12.79	12.77	12.74	12.72	12.71	12.70	12.68	16.99dBm or 4+10log(B) = 17.97dBm
52	5260	12.80	12.79	12.77	12.74	12.72	12.71	12.70	12.68	23.98dBm or 11+10log(B) = 24.81dBm
60	5300	<b>12.81</b>	12.80	12.78	12.76	12.73	12.72	12.70	12.67	23.98dBm or 11+10log(B) = 24.96dBm
64	5320	12.81	12.79	12.76	12.75	12.73	12.72	12.70	12.67	23.98dBm or 11+10log(B) = 24.91dBm
100	5500	12.88	12.84	12.83	12.80	12.79	12.77	12.74	12.73	23.98dBm or 11+10log(B) = 24.33dBm
116	5580	<b>12.94</b>	12.91	12.89	12.86	12.83	12.81	12.80	12.77	23.98dBm or 11+10log(B) = 24.35dBm
140	5700	12.84	12.82	12.79	12.76	12.74	12.72	12.71	12.68	23.98dBm or 11+10log(B) = 24.41dBm

Note: Limit is re-adjusted in terms of dBm

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

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

Note: Cable loss is 11.8dB is set as the offset on the spectrum to compensate the loss causing by cable

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802.11n HT20

Cable loss = 0		The Maximum Output Power								
CH	Frequency (MHz)	Data Rate								Required Limit
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
36	5180	12.80	12.79	12.77	12.74	12.72	12.71	12.70	12.68	16.99dBm or 4+10log(B) = 17.86dBm
44	5220	<b>12.87</b>	12.84	12.82	12.79	12.76	12.74	12.72	12.71	16.99dBm or 4+10log(B) = 17.85dBm
48	5240	12.82	12.79	12.76	12.75	12.73	12.72	12.70	12.67	16.99dBm or 4+10log(B) = 17.95dBm
52	5260	12.85	12.83	12.81	12.78	12.75	12.73	12.71	12.69	23.98dBm or 11+10log(B) = 24.94dBm
60	5300	12.86	12.84	12.82	12.79	12.76	12.74	12.72	12.71	23.98dBm or 11+10log(B) = 24.95dBm
64	5320	<b>12.87</b>	12.84	12.83	12.78	12.76	12.73	12.72	12.70	23.98dBm or 11+10log(B) = 24.84dBm
100	5500	12.90	12.88	12.87	12.84	12.83	12.80	12.79	12.77	23.98dBm or 11+10log(B) = 24.45dBm
116	5580	12.94	12.91	12.89	12.88	12.85	12.84	12.83	12.81	23.98dBm or 11+10log(B) = 24.70dBm
140	5700	<b>12.94</b>	12.91	12.89	12.88	12.85	12.84	12.83	12.82	23.98dBm or 11+10log(B) = 24.65dBm

Note: Offset 11.8dB

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802.11n HT40

Cable loss = 0		The Maximum Output Power								
CH	Frequency (MHz)	Data Rate								Required Limit
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
38	5190	<b>11.77</b>	11.76	11.73	11.72	11.70	11.69	11.68	11.66	<b>16.99dBm or 4+10log(B) = 22.77dBm</b>
46	5230	11.73	11.72	11.70	11.69	11.68	11.64	11.61	11.60	<b>16.99dBm or 4+10log(B) = 21.76dBm</b>
54	5270	11.80	11.79	11.77	11.74	11.72	11.71	11.70	11.68	<b>23.98dBm or 11+10log(B) = 28.84dBm</b>
62	5310	<b>11.83</b>	11.80	11.78	11.76	11.73	11.72	11.70	11.69	<b>23.98dBm or 11+10log(B) = 28.96dBm</b>
102	5510	11.55	11.53	11.51	11.48	11.47	11.46	11.44	11.42	<b>23.98dBm or 11+10log(B) = 27.16dBm</b>
118	5550	11.64	11.63	11.62	11.60	11.59	11.58	11.56	11.55	<b>23.98dBm or 11+10log(B) = 27.26dBm</b>
134	5670	<b>11.88</b>	11.84	11.83	11.80	11.79	11.77	11.74	11.73	<b>23.98dBm or 11+10log(B) = 27.27dBm</b>

Note: Offset 11.8dB

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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.

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

### 9.2 Measurement Procedure (following procedure F, & E) d) method SA-2 in KDB789033 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. Use the cursor on spectrum to peak search the highest level of trace
5. Add offset, duty factor = 0.013048, on the spectrum
6. Record the max. reading.
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.

### 9.3 Measurement Equipment Used:

Refer to section 7.3 for details.

### 9.4 Test Set-up:

Refer to section 7.4 for details.

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### 9.5 Measurement Result

802.11a, 5150~5250 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	0.08	4.00	-3.92
5220	0.25	4.00	-3.75
5240	0.25	4.00	-3.75

802.11a, 5250~5350 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5260	0.56	11.00	-10.45
5300	0.22	11.00	-10.78
5320	0.22	11.00	-10.78

802.11a, 5470~5725 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5500	-0.64	11.00	-11.64
5580	-0.45	11.00	-11.45
5700	0.59	11.00	-10.41

*Note: Offset 11.8dB*

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802.11n HT20, 5150~5250 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	-0.16	4.00	-4.16
5220	-0.48	4.00	-4.48
5240	-0.04	4.00	-4.04

802.11n HT20, 5250~5350 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5260	-0.30	11.00	-11.30
5300	0.22	11.00	-10.78
5320	0.38	11.00	-10.63

802.11n HT20, 5470~5725 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5500	-1.13	11.00	-12.13
5580	-0.26	11.00	-11.26
5700	0.03	11.00	-10.97

Note: Offset 11.8dB

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802.11n HT40, 5150~5250 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5190	-1.53	4.00	-5.53
5230	-1.27	4.00	-5.27

802.11n HT40, 5250~5350 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5270	-1.47	11.00	-12.47
5310	-1.33	11.00	-12.33

802.11n HT40, 5470~5725 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5510	-5.07	11.00	-16.07
5550	-5.40	11.00	-16.40
5670	-4.50	11.00	-15.50

Note: Offset 11.8dB

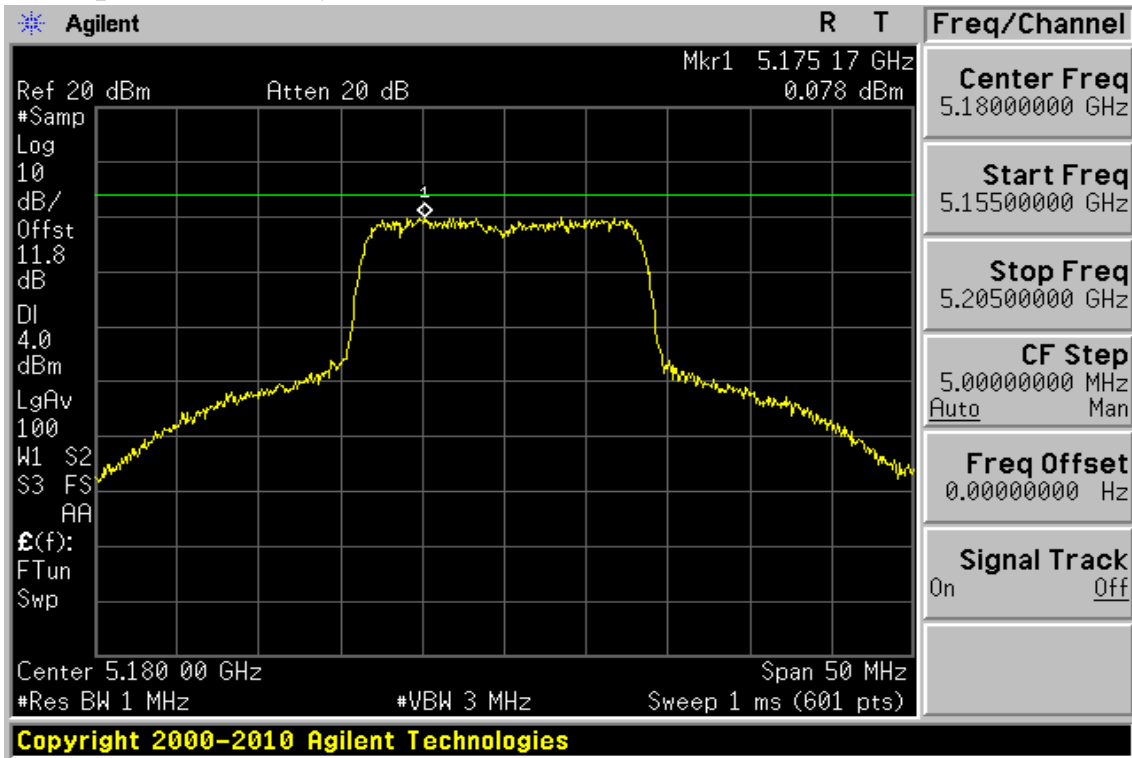
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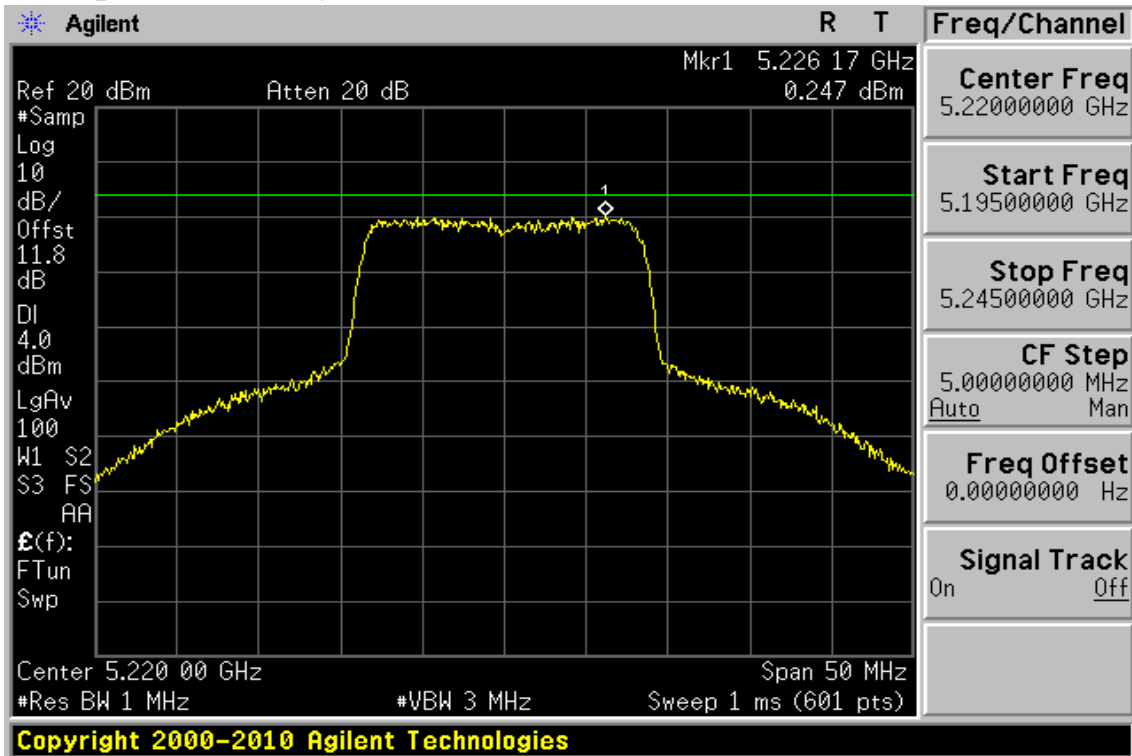
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802.11a, 5150~5250 MHz

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



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

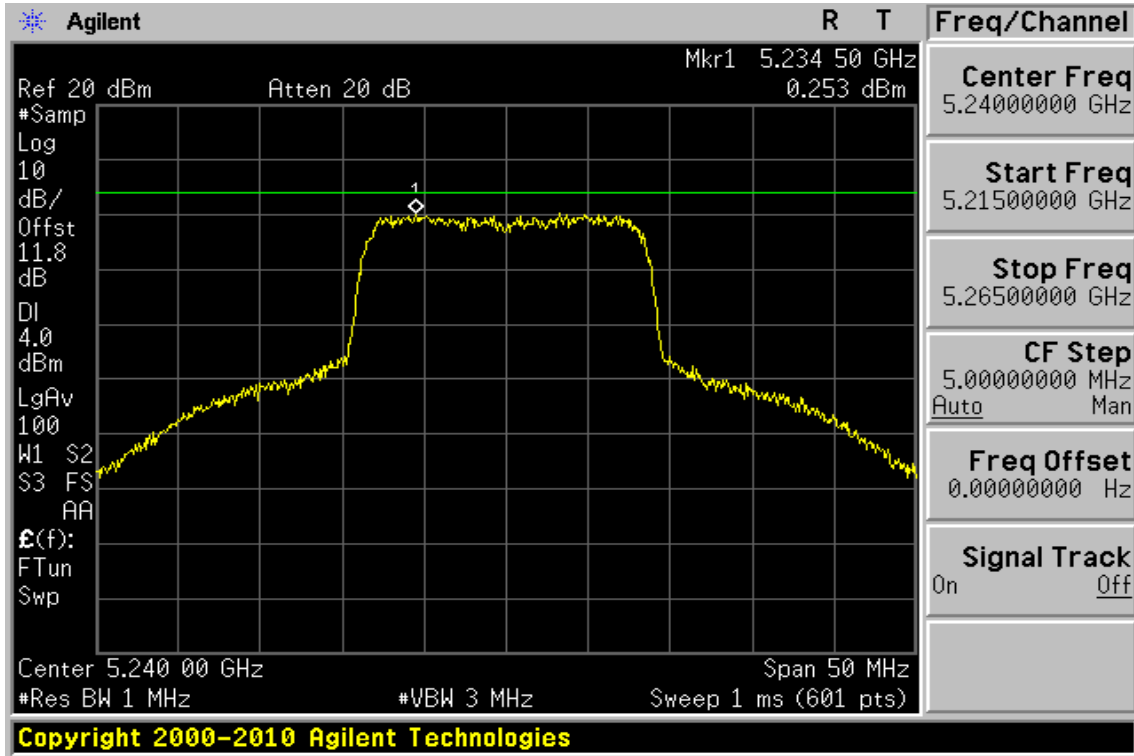


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**Peak Power Spectral Density Data Plot (CH High 5240 MHz)**



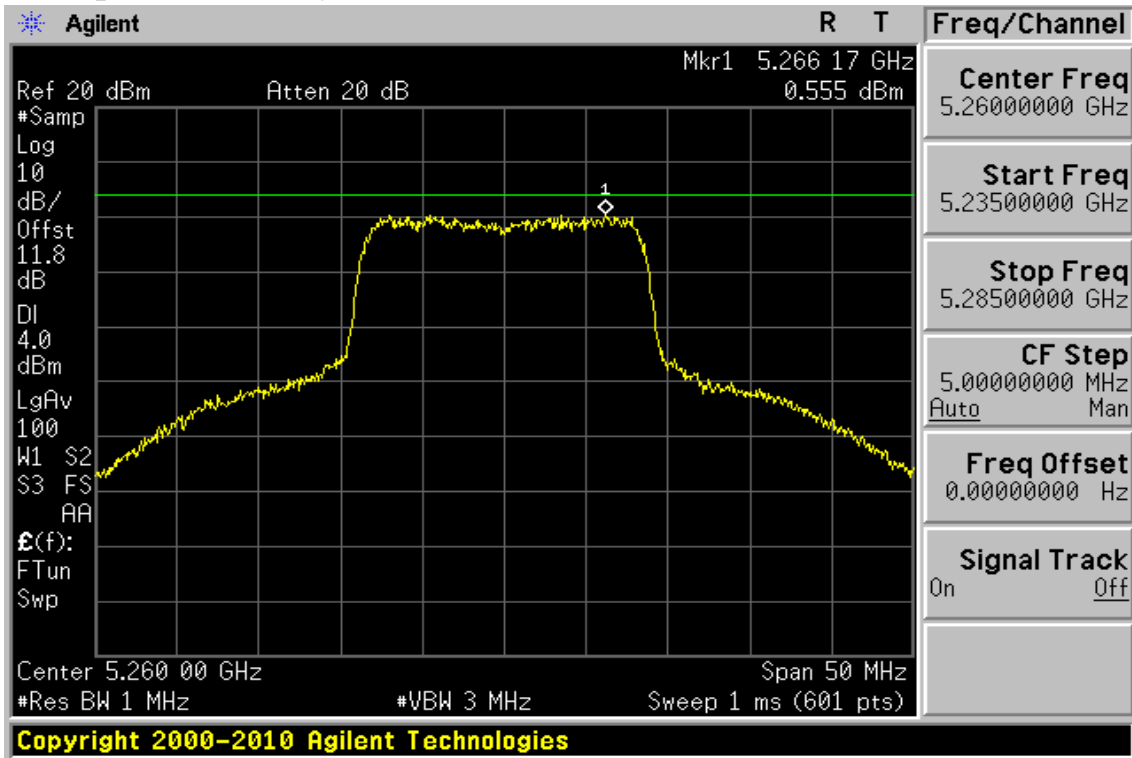
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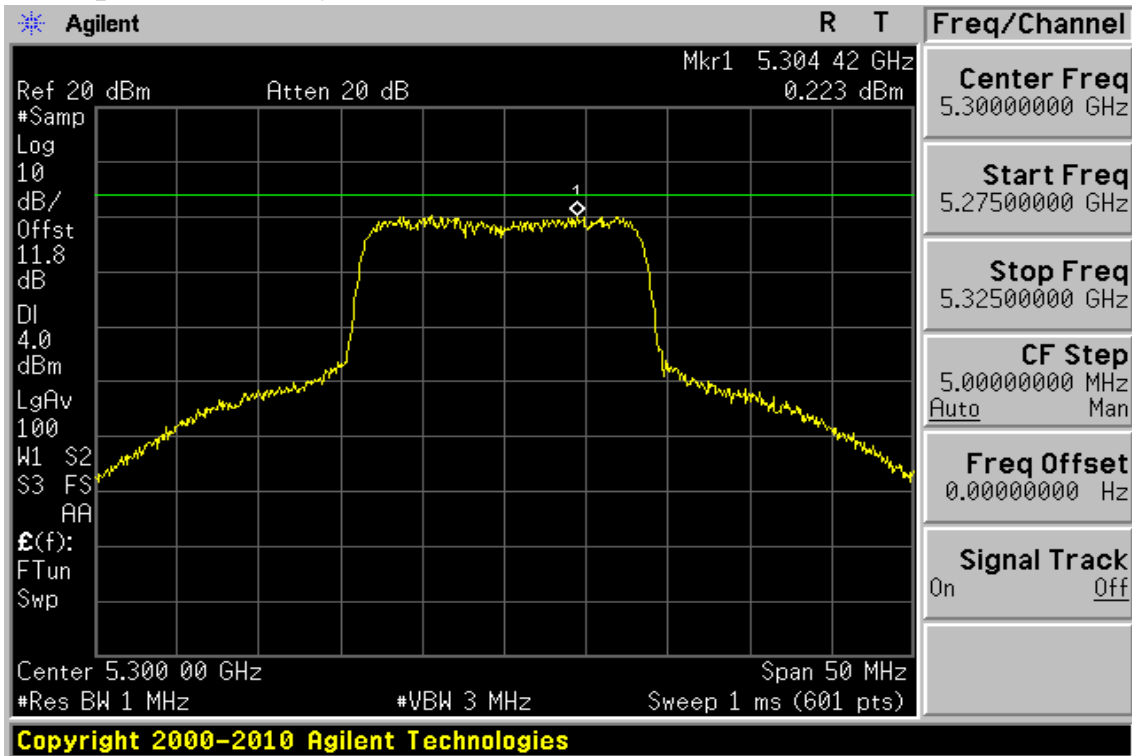
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802.11a, 5250~5350 MHz

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



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

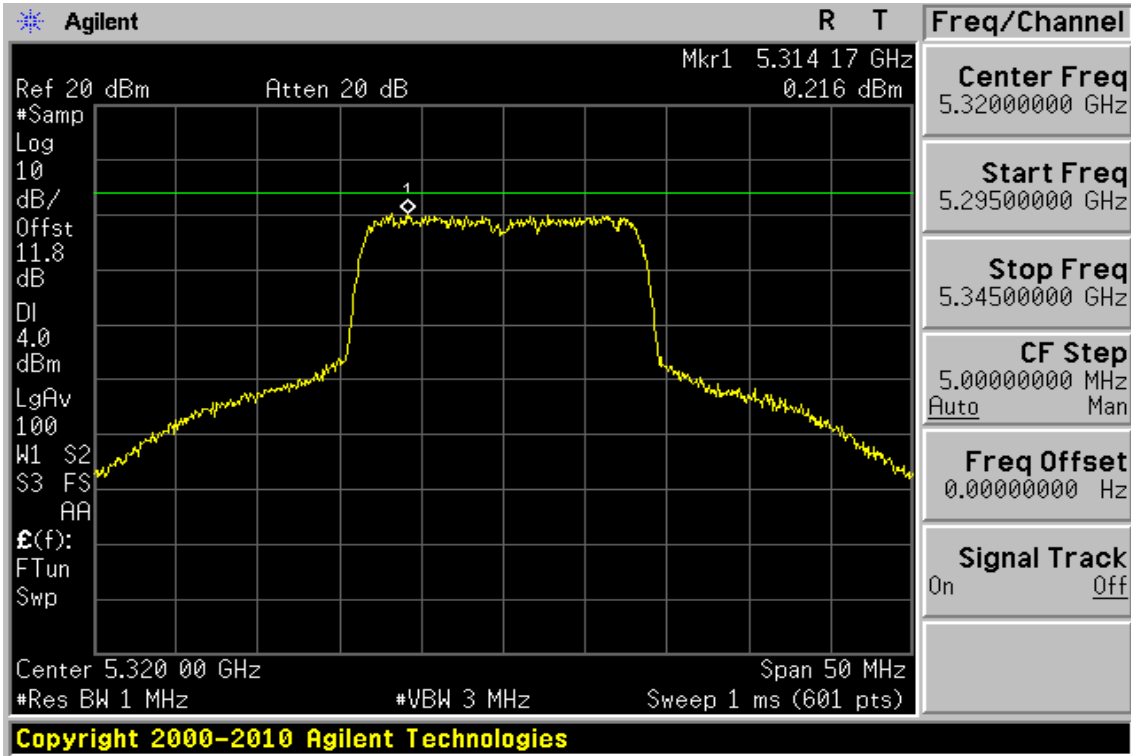


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Peak Power Spectral Density Data Plot (CH High 5320 MHz)



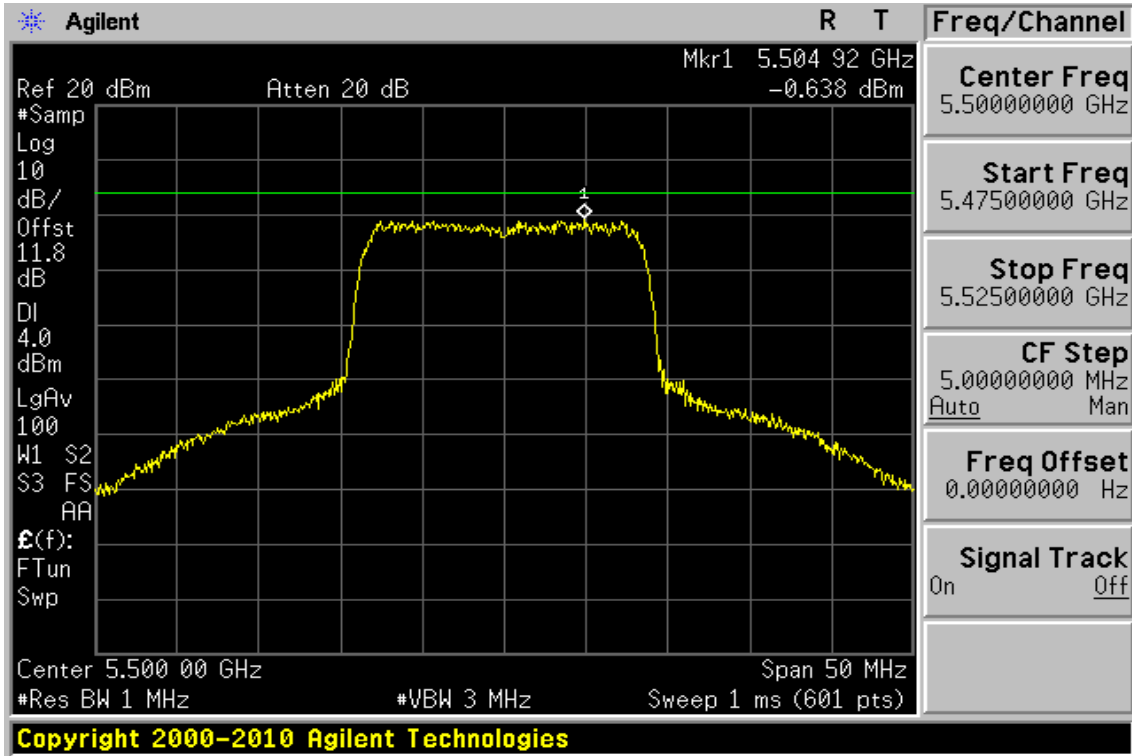
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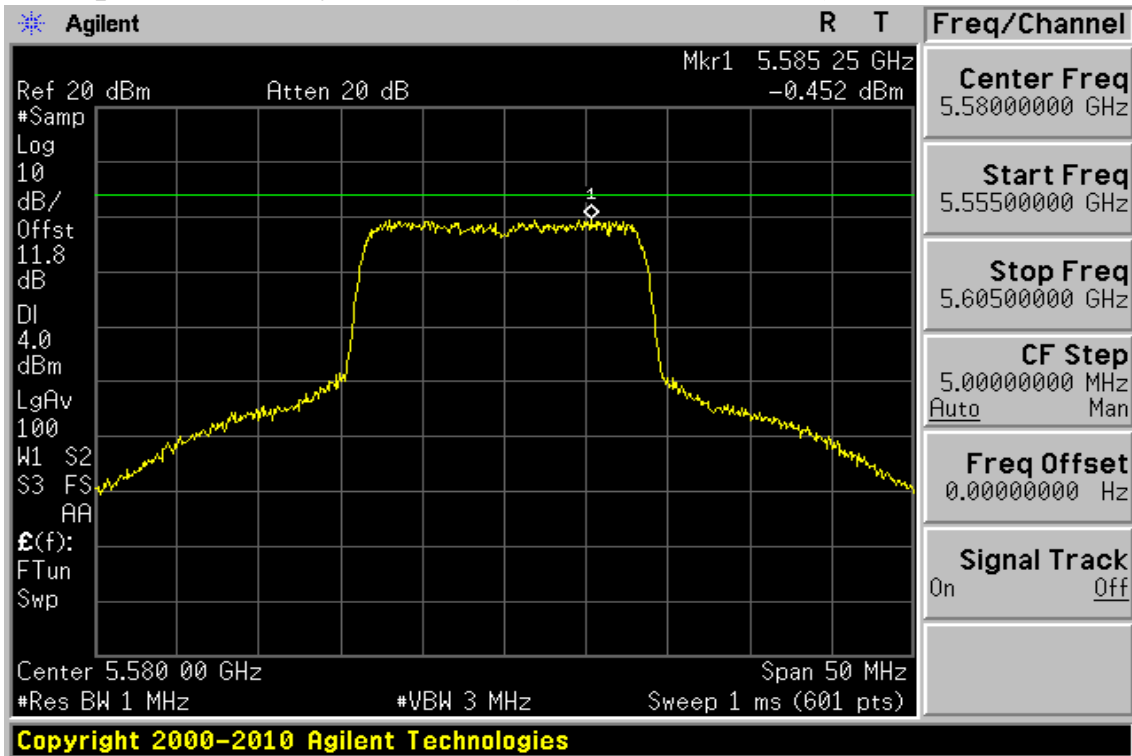
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802.11a, 5470~5725 MHz

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



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

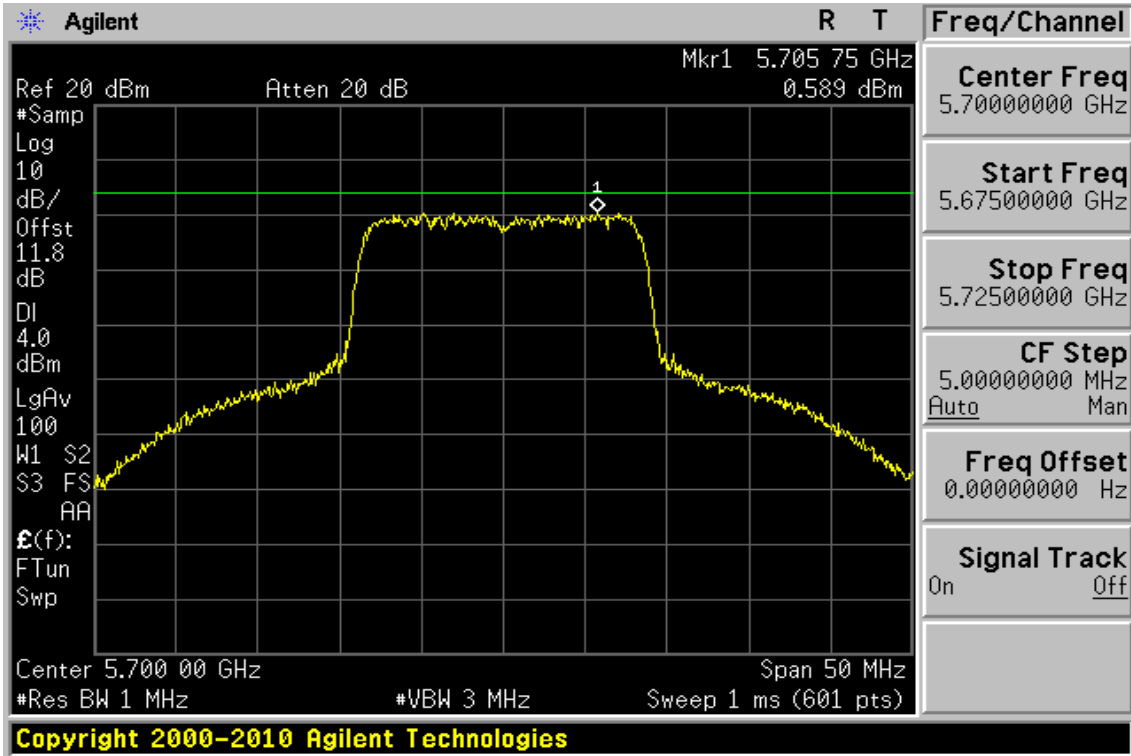


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Peak Power Spectral Density Data Plot (CH High 5700 MHz)



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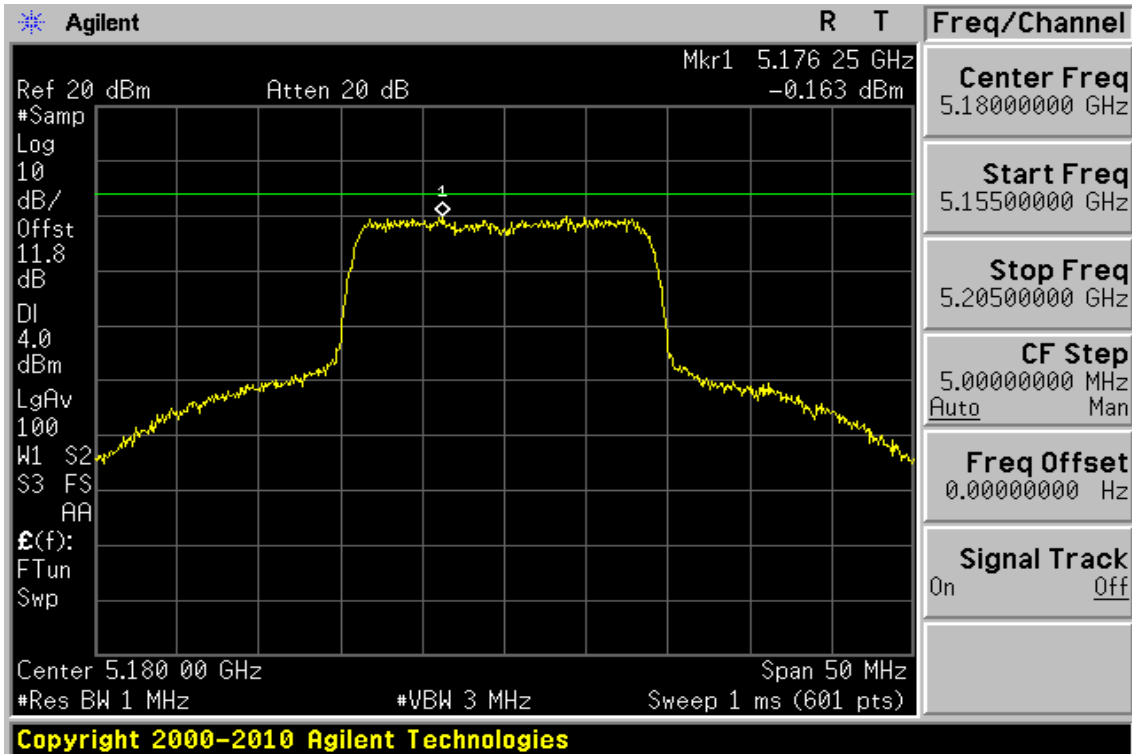
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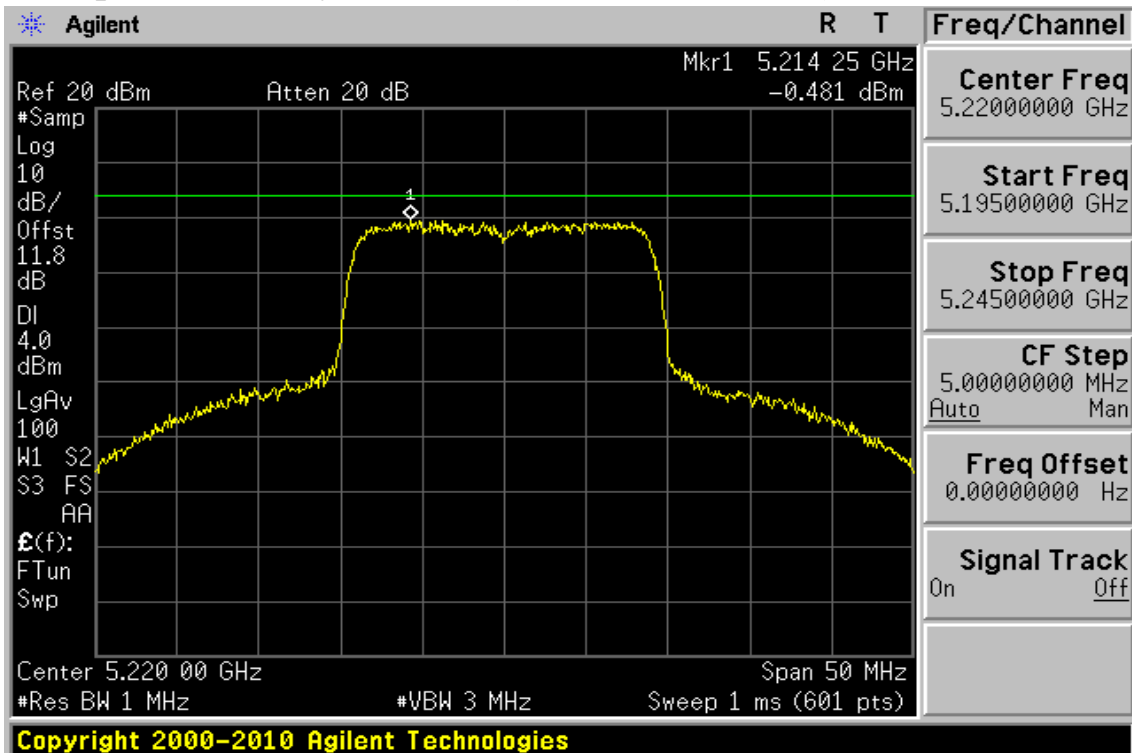


802.11n HT20, 5150~5250 MHz

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



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

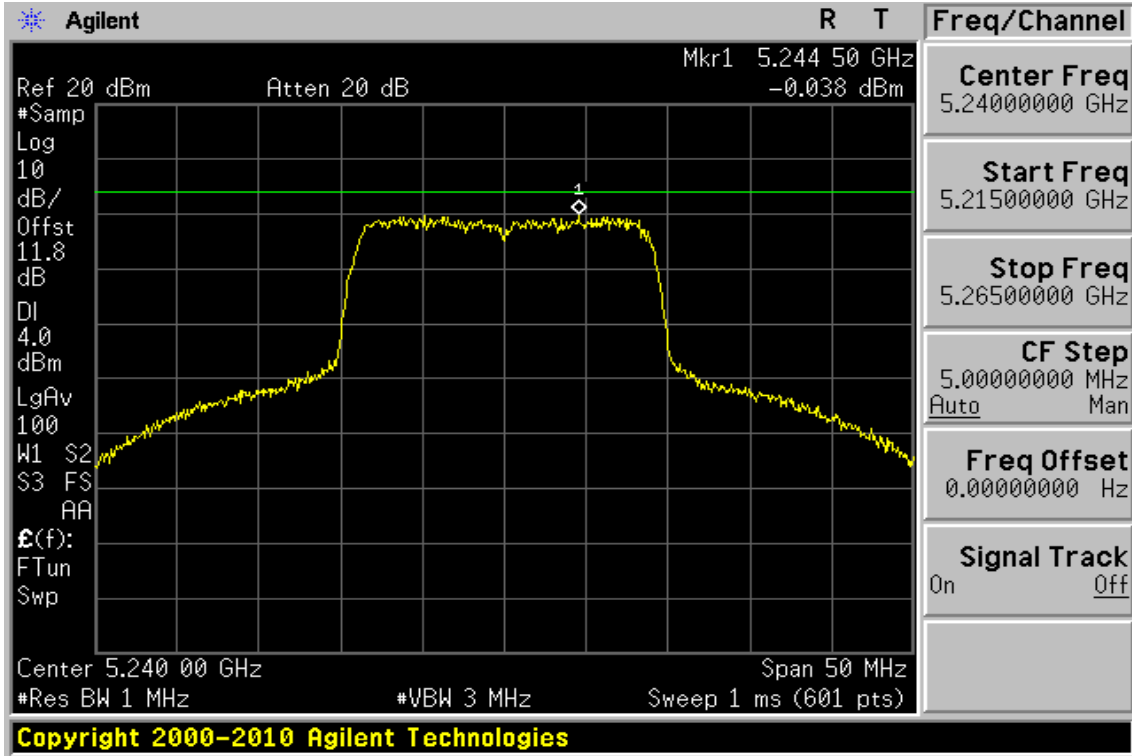


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**Peak Power Spectral Density Data Plot (CH High 5240 MHz)**

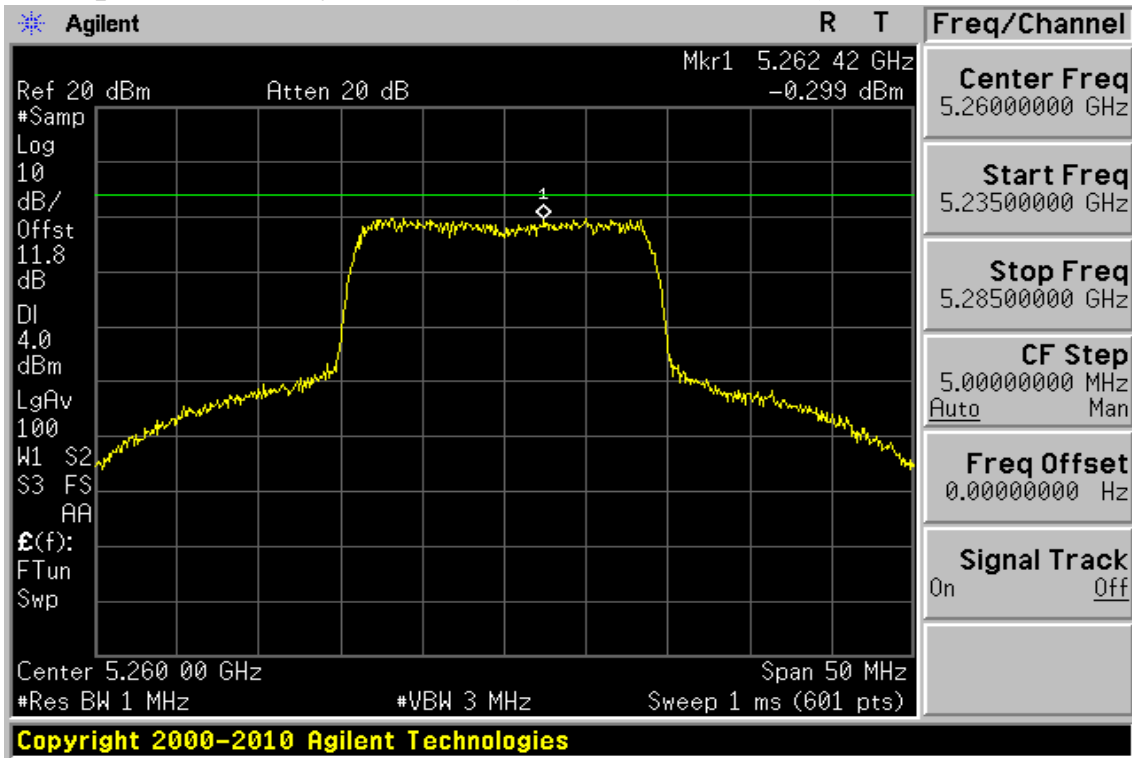


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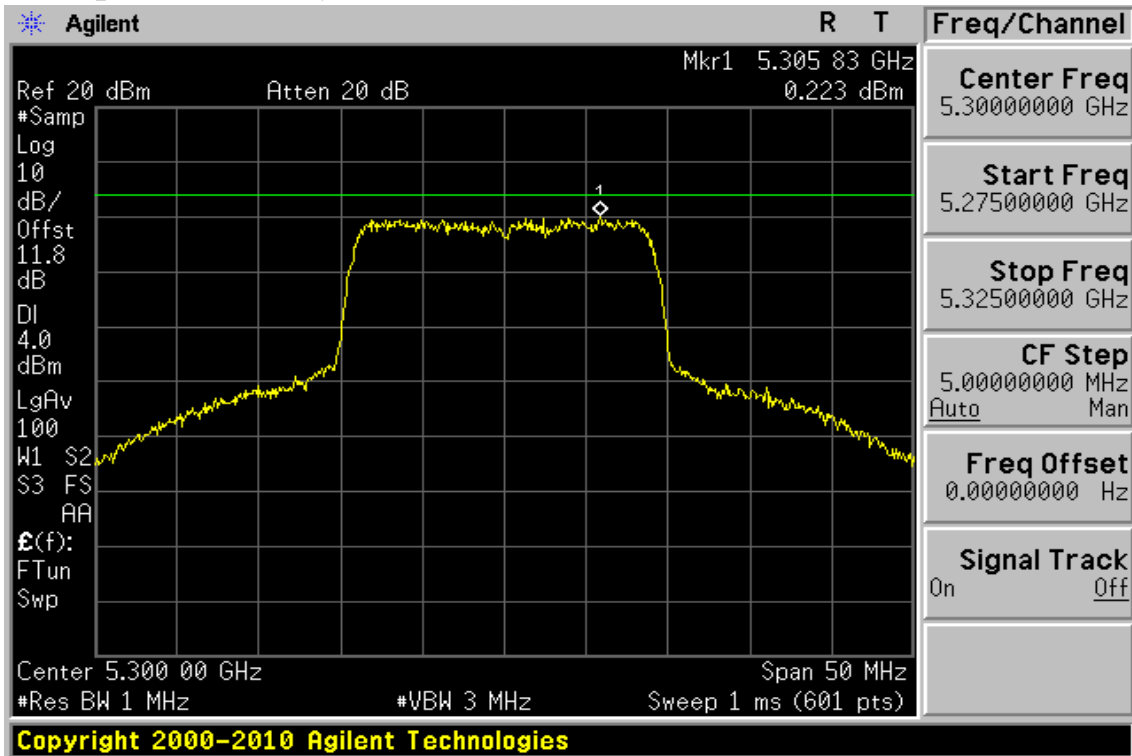
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**802.11n HT20, 5250~5350 MHz**  
**Peak Power Spectral Density Data Plot (CH Low 5260MHz)**



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

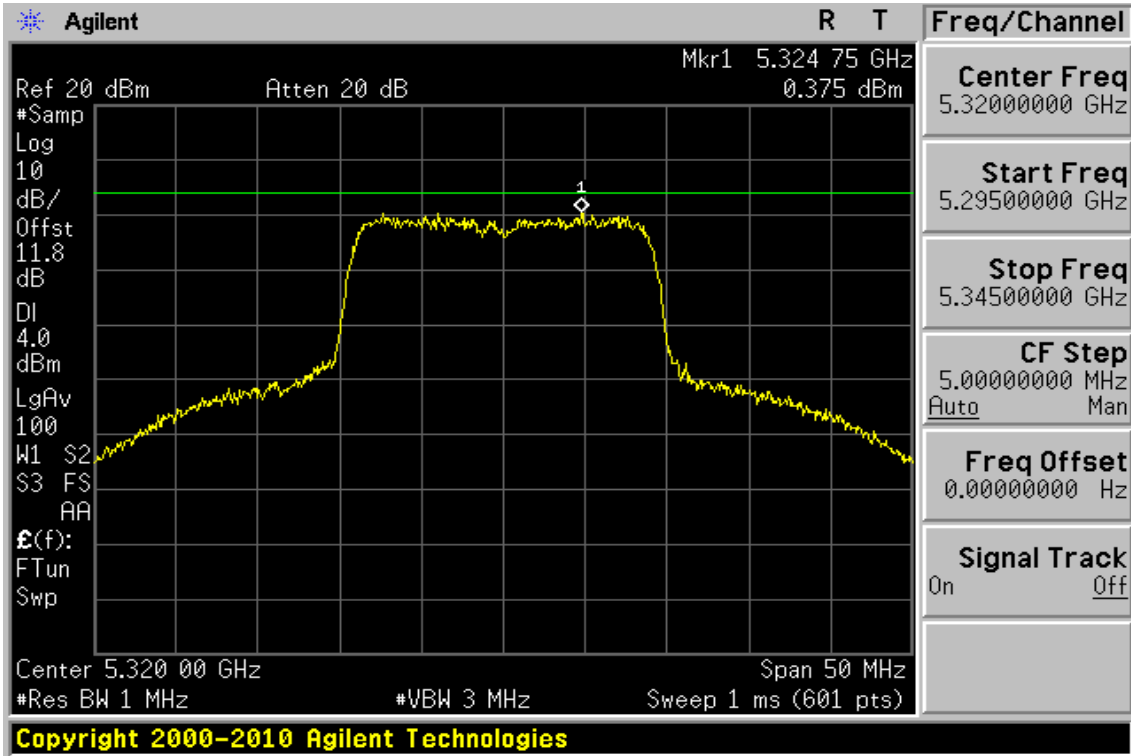


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Peak Power Spectral Density Data Plot (CH High 5320 MHz)



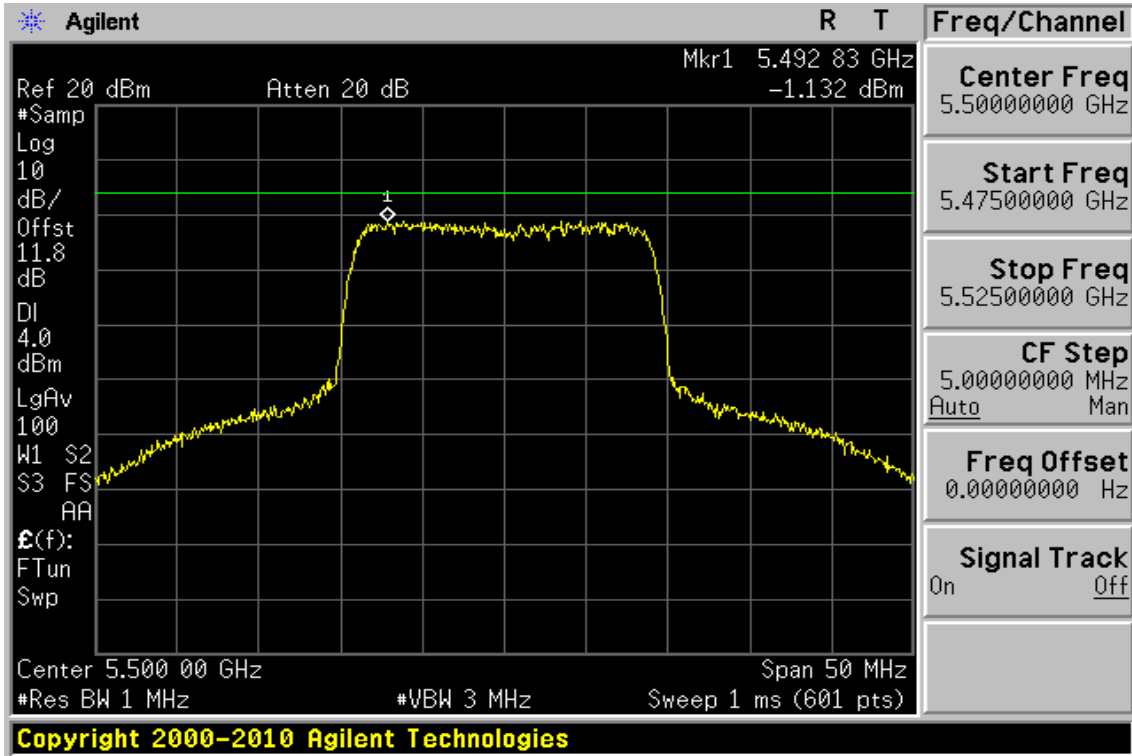
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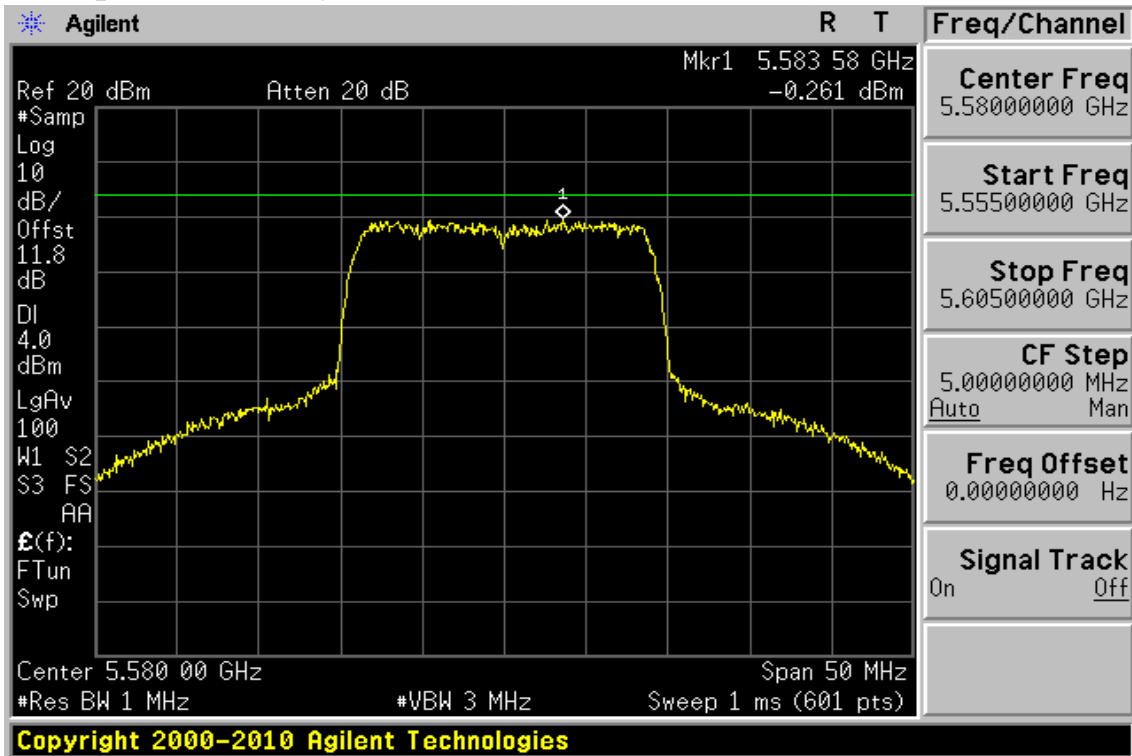
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802.11n HT20, 5470~5725 MHz

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



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

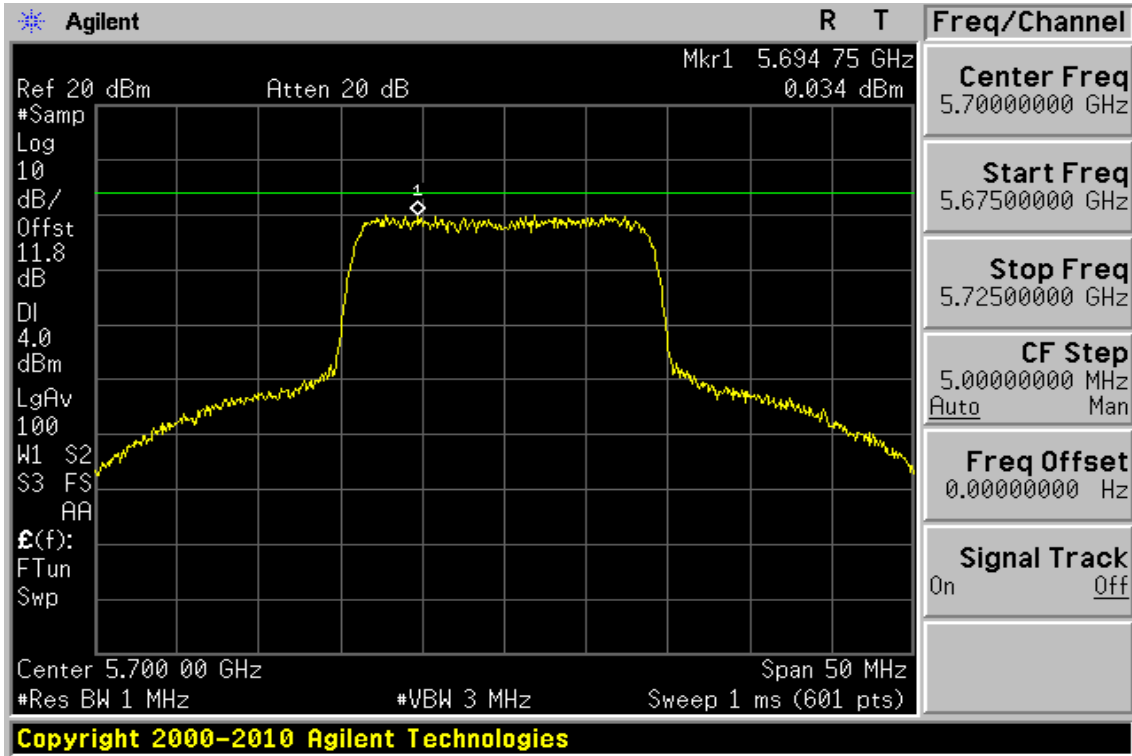


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Peak Power Spectral Density Data Plot (CH High 5700 MHz)

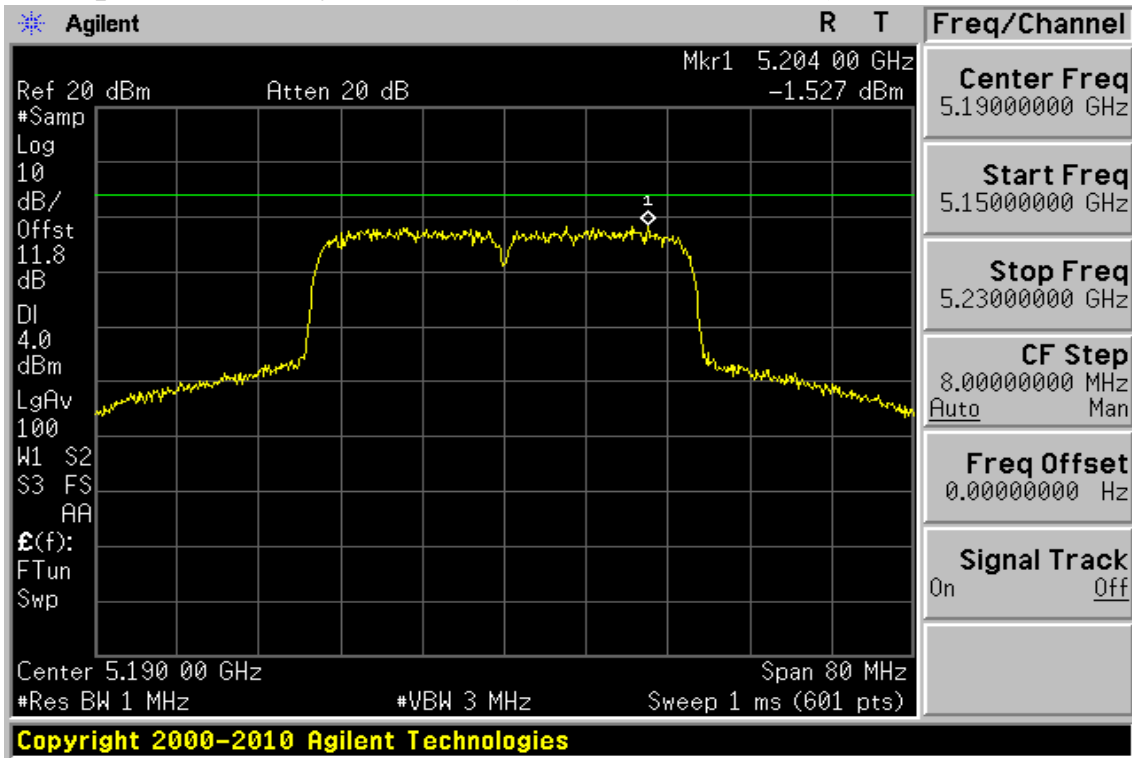


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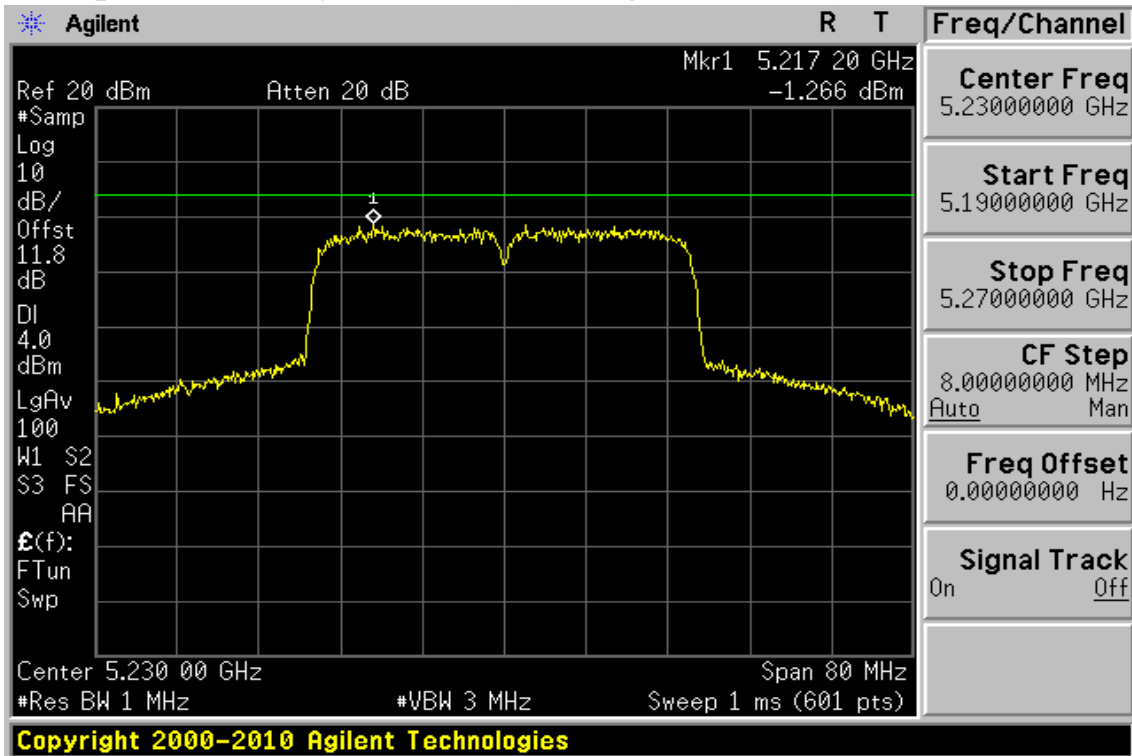
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**802.11n HT40, 5150~5250 MHz**  
**Peak Power Spectral Density Data Plot (CH Low 5190 MHz)**



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



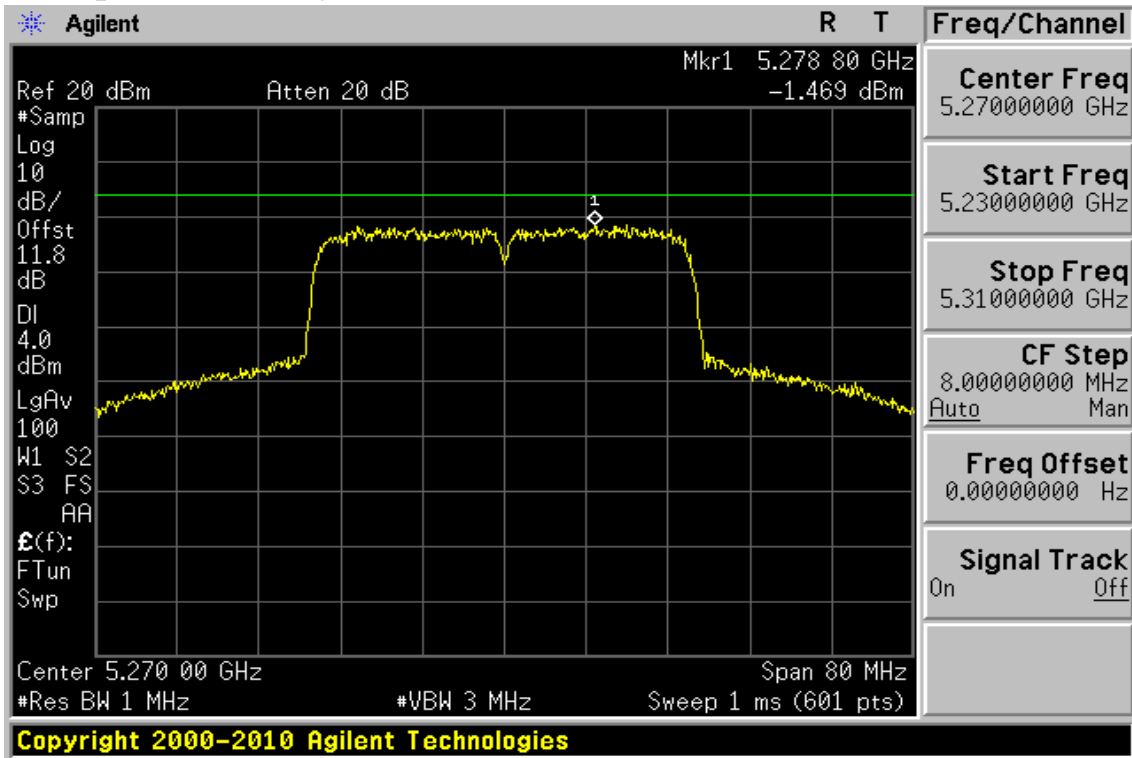
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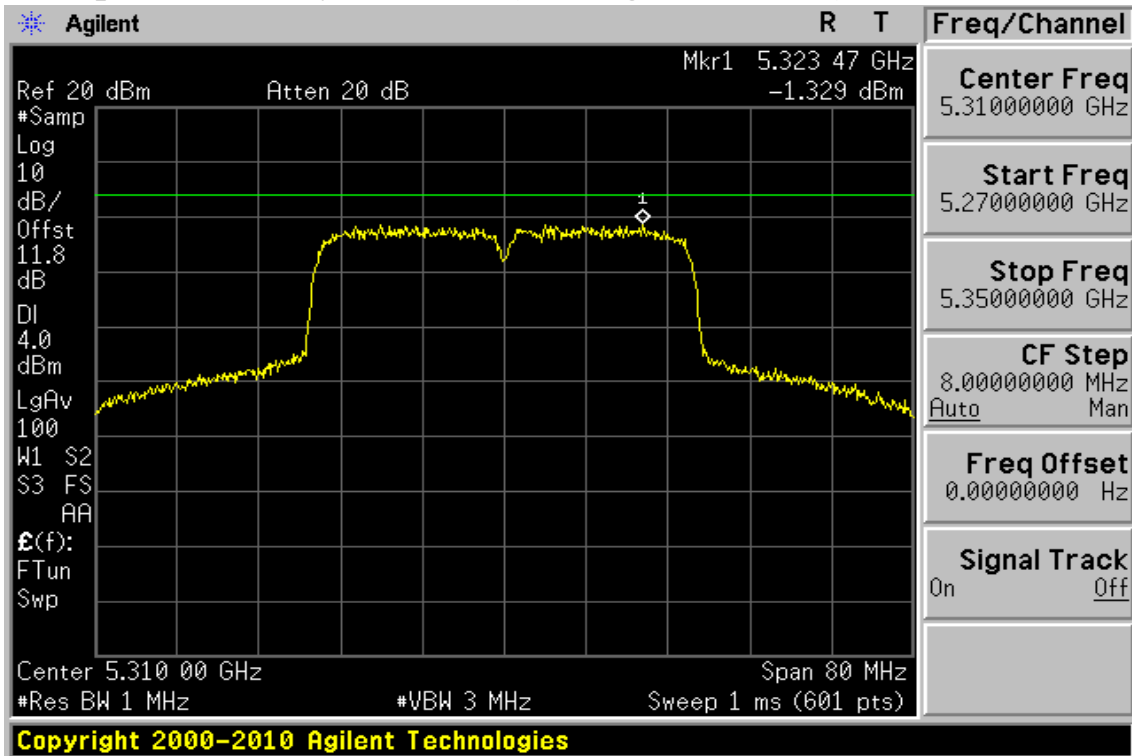
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802.11n HT40, 5250~5350 MHz

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



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



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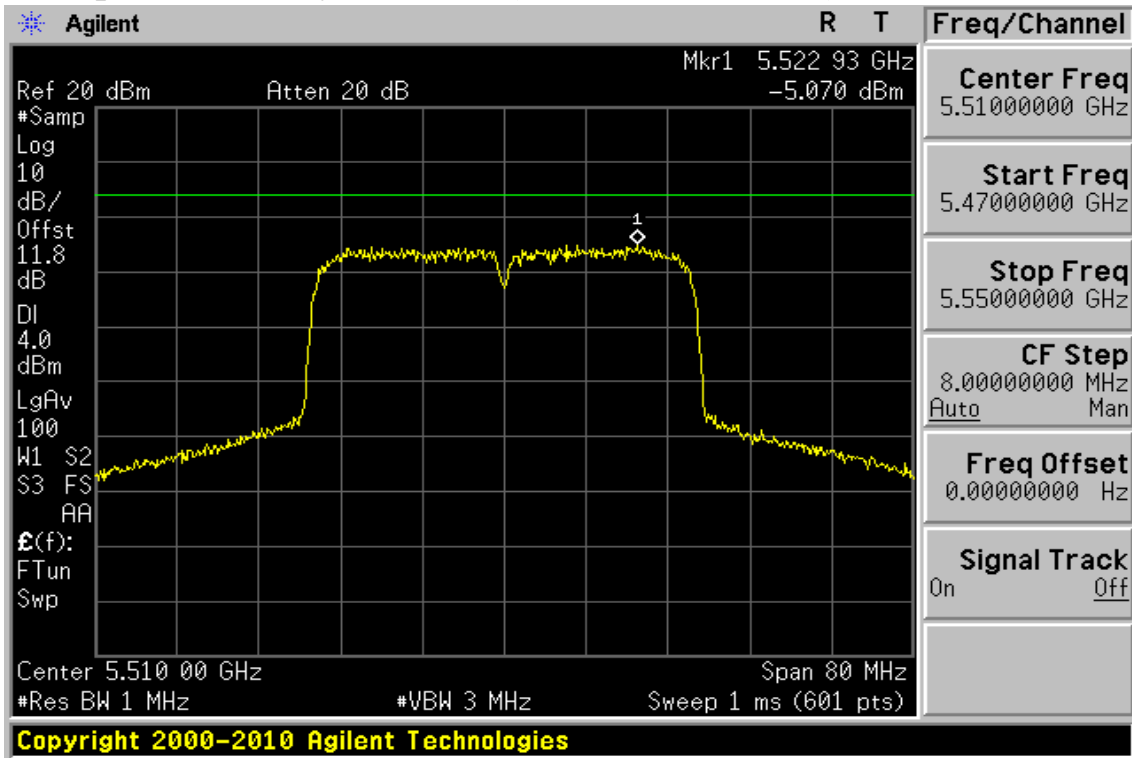
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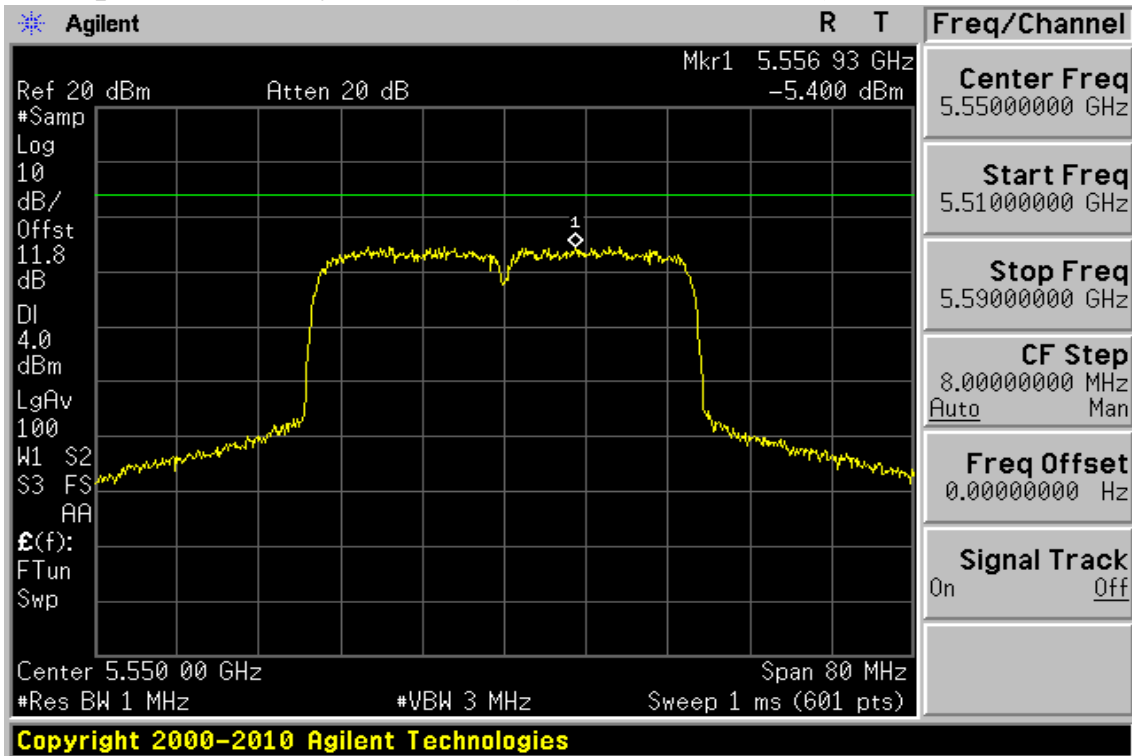


802.11n HT40, 5470~5725 MHz

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



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

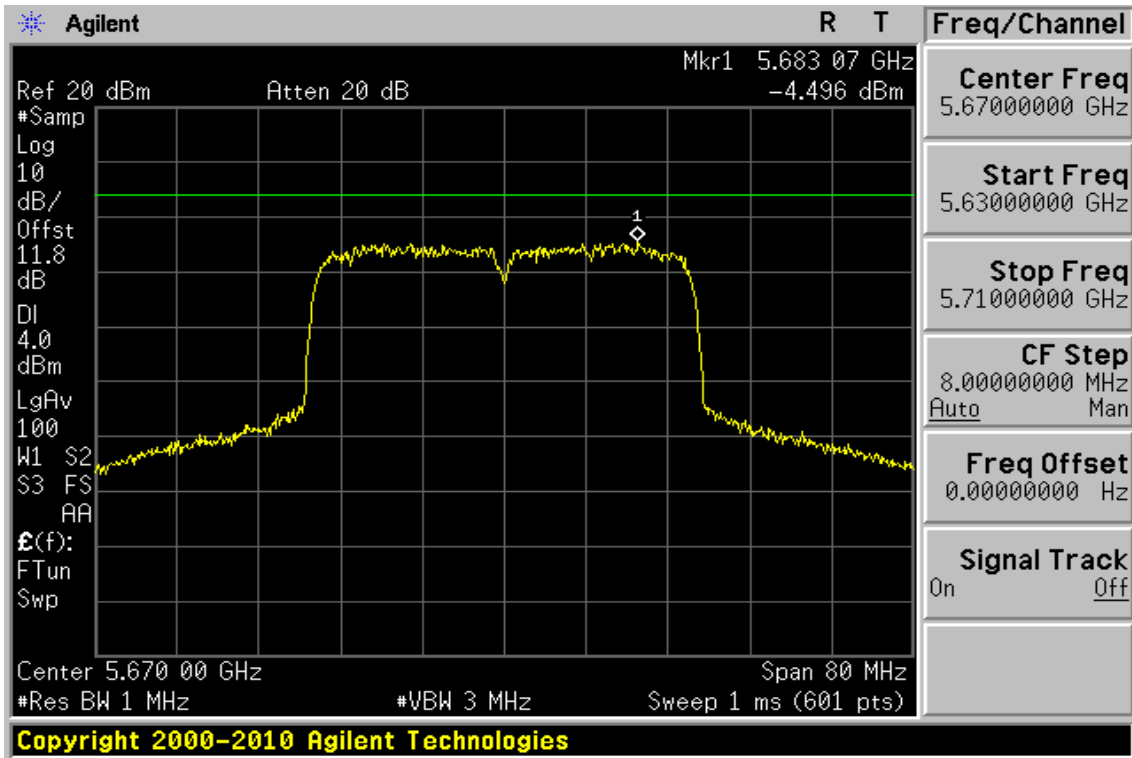


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Peak Power Spectral Density Data Plot (CH High 5670 MHz)



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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	$R$	$N_{BPSC}(i_{SS})$	$N_{SD}$	$N_{SP}$	$N_{CBPS}$	$N_{DBPS}$	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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**10.5 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	1.78	0.25	1.53	13.00

802.11a, 5250~5350 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5300	8.64	0.22	8.42	13.00

802.11a, 5470~5725 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5580	5.27	-0.45	5.72	13.00

802.11n HT20, 5150~5250 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5220	7.38	-0.48	7.86	13.00

802.11n HT20, 5250~5350 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5300	8.73	0.22	8.51	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	4.37	-0.26	4.63	13.00

802.11n HT40, 5150~5250 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5190	1.98	-1.53	3.51	13.00

802.11n HT40, 5250~5350 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5270	4.14	-1.47	5.61	13.00

802.11n HT40, 5470~5725 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5510	-1.08	-5.07	3.99	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	7.23	0.116	7.11	13.00

802.11a, 5250~5350 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5300	10.09	0.423	9.67	13.00

802.11a, 5470~5725 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5580	5.23	-0.437	5.67	13.00

802.11n HT20, 5150~5250 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5220	7.12	-0.139	7.26	13.00

802.11n HT20, 5250~5350 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5300	10.09	0.047	10.04	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	5.31	-0.614	5.92	13.00

802.11n HT40, 5150~5250 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5190	3.88	-1.613	5.49	13.00

802.11n HT40, 5250~5350 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5270	-2.57	-1.421	-1.15	13.00

802.11n HT40, 5470~5725 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5510	0.24	-4.804	5.04	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	7.47	-0.296	7.77	13.00

802.11a, 5250~5350 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5300	10.61	-0.104	10.71	13.00

802.11a, 5470~5725 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5580	7.05	-0.105	7.16	13.00

802.11n HT20, 5150~5250 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5220	8.11	-0.417	8.53	13.00

802.11n HT20, 5250~5350 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5300	9.67	-0.256	9.93	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	5.75	-0.733	6.48	13.00

802.11n HT40, 5150~5250 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5190	3.04	-1.798	4.84	13.00

802.11n HT40, 5250~5350 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5270	-2.05	-1.94	-0.11	13.00

802.11n HT40, 5470~5725 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5510	-0.08	-5.401	5.32	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	7.83	-0.613	8.44	13.00

802.11a, 5250~5350 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5300	9.94	-0.159	10.10	13.00

802.11a, 5470~5725 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5580	6.52	-0.669	7.19	13.00

802.11n HT20, 5150~5250 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5220	7.96	-0.586	8.55	13.00

802.11n HT20, 5250~5350 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5300	9.66	-0.332	9.99	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	5.25	-0.862	6.11	13.00

802.11n HT40, 5150~5250 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5190	3.78	-1.944	5.72	13.00

802.11n HT40, 5250~5350 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5270	5.16	-1.612	6.77	13.00

802.11n HT40, 5470~5725 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5510	0.20	-5.3	5.50	13.00

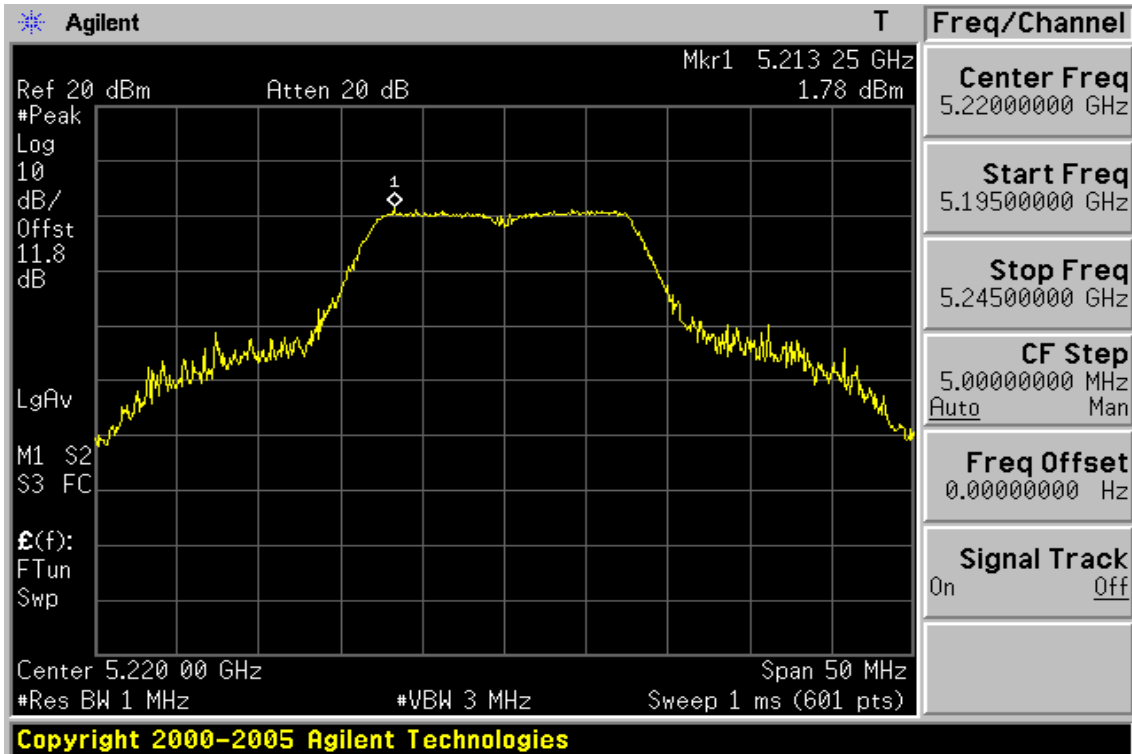
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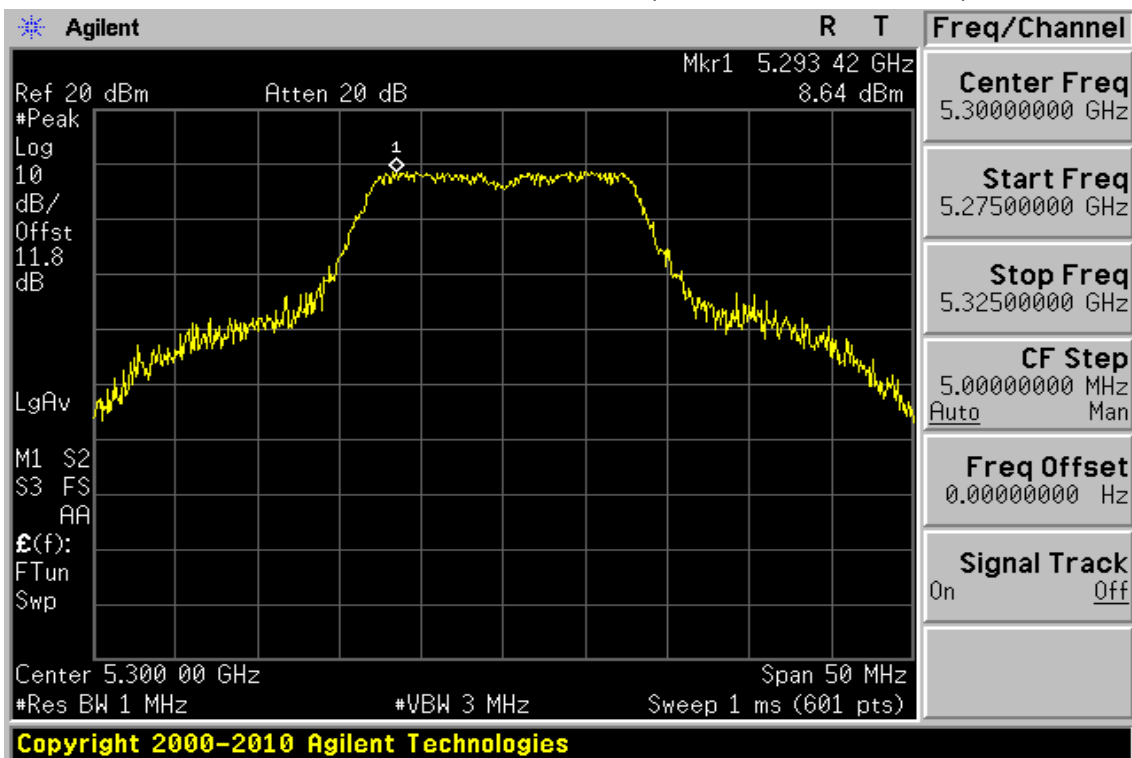
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**Modulation Type: BPSK, Coding Rate: 1/2**

**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)**

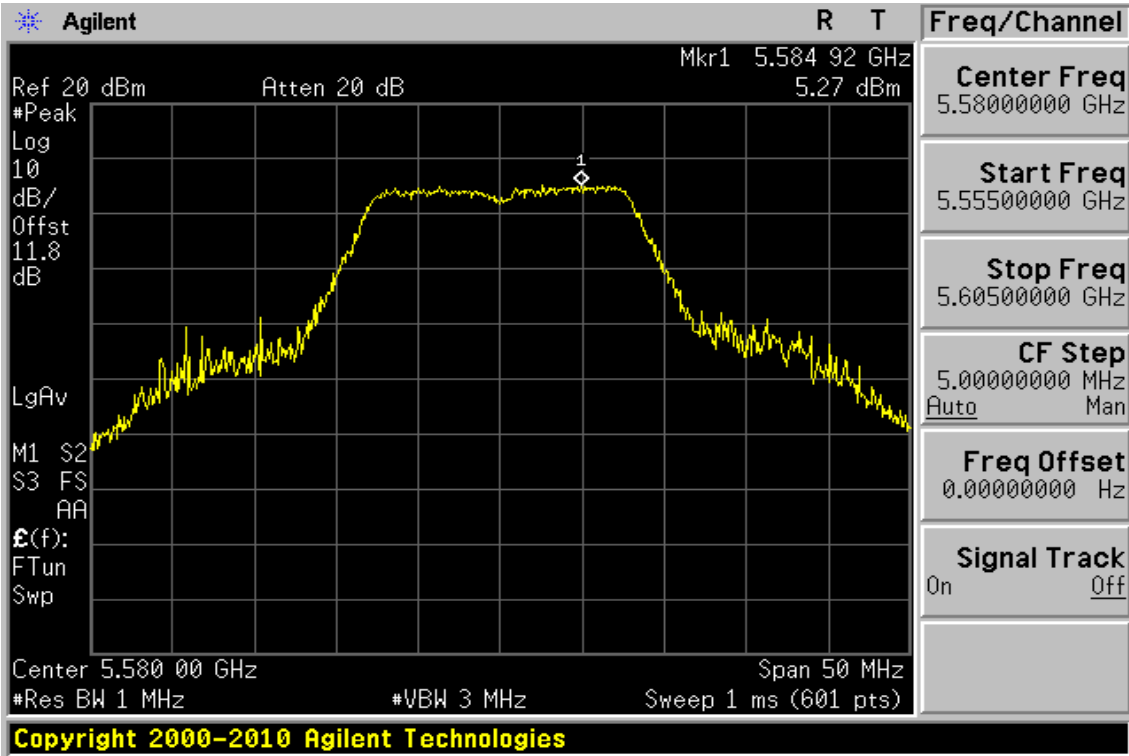


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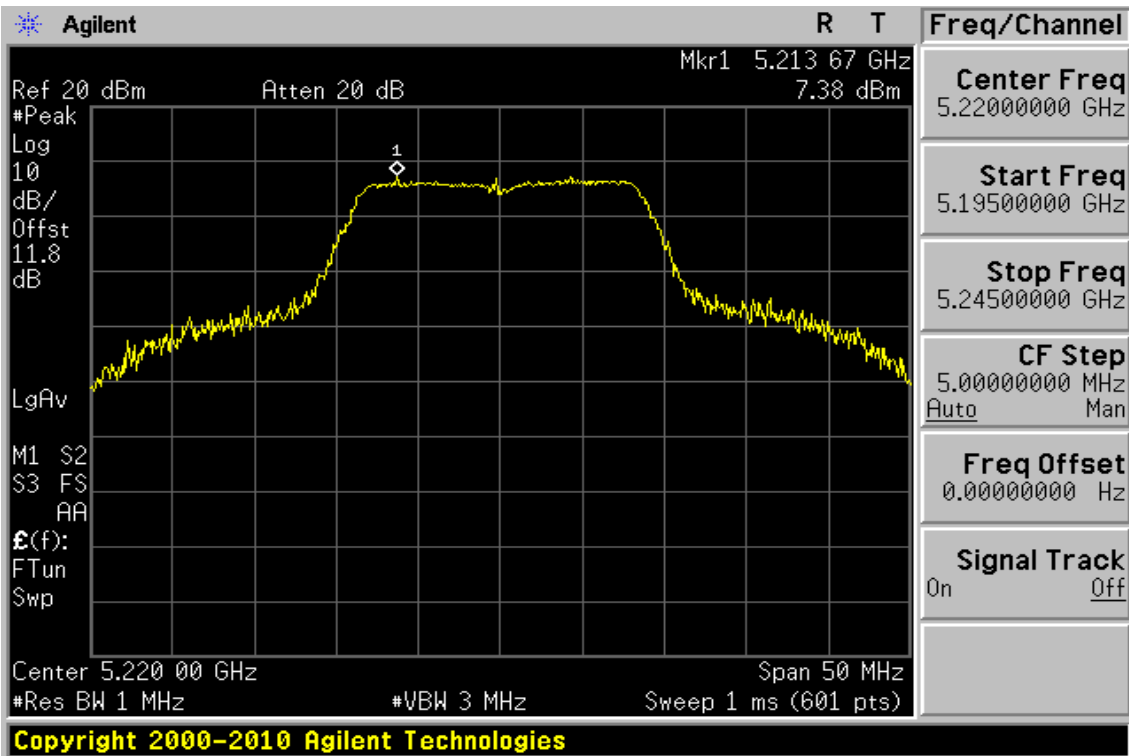
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802.11a, 5470~5725 MHz, Peak Value Data Plot (CH Mid 5580 MHz)



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

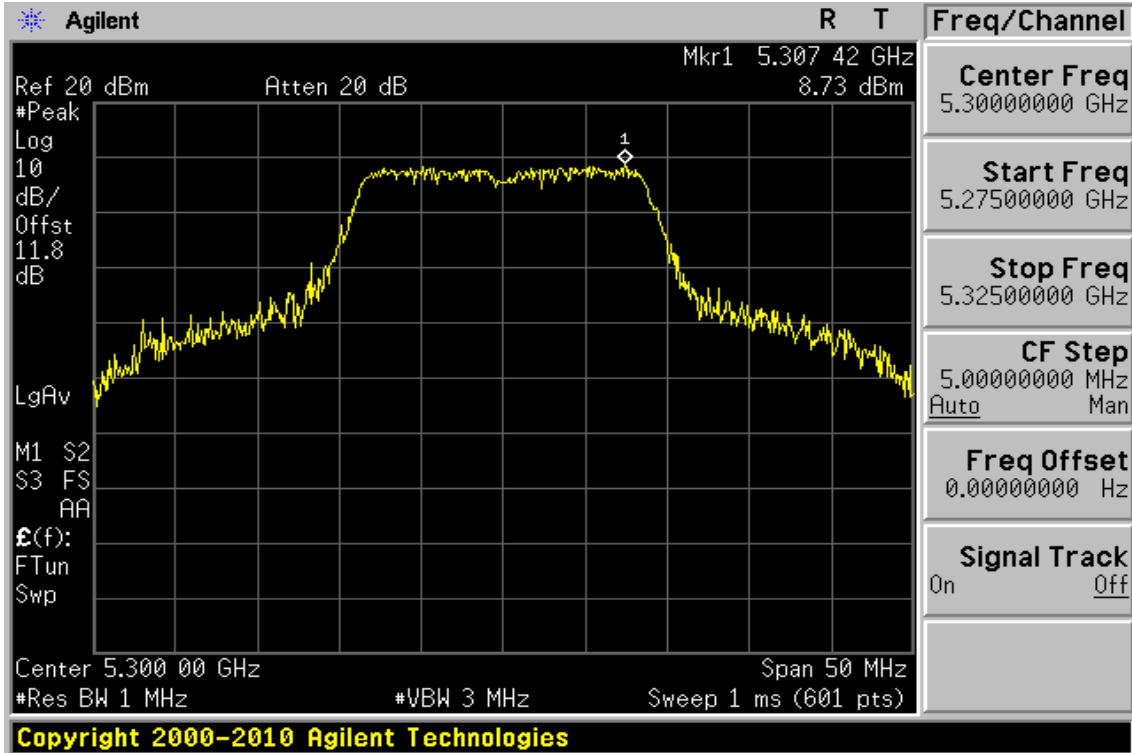


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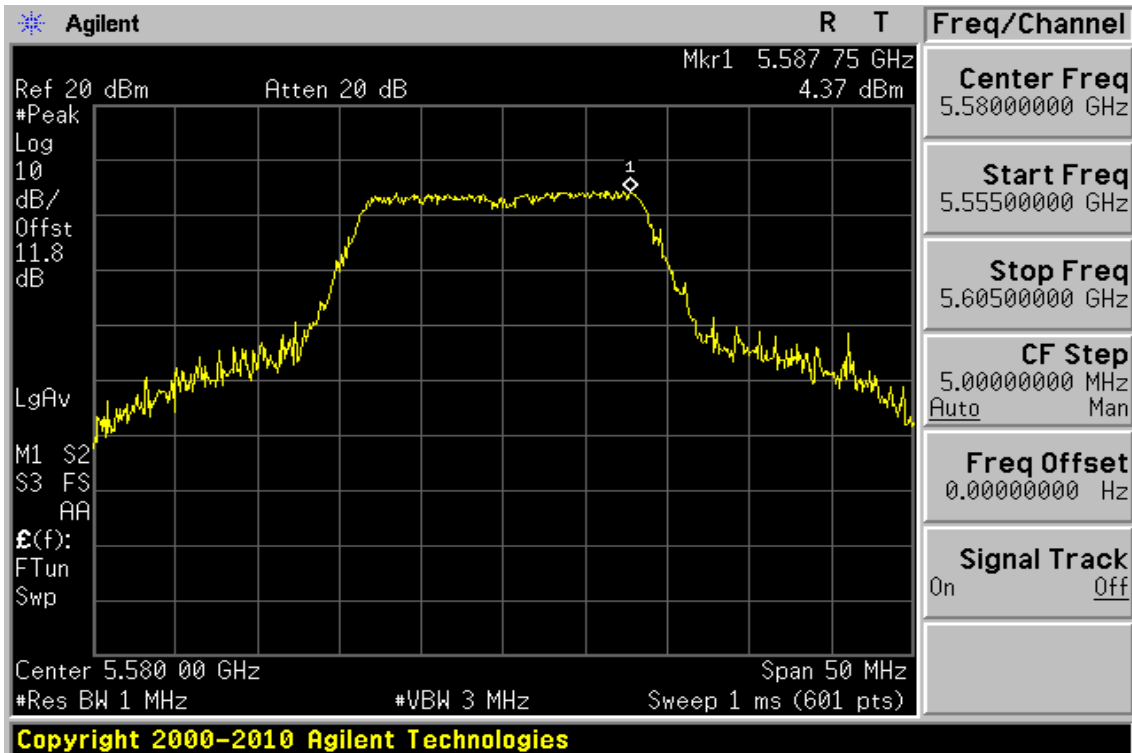
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802.11n HT20, 5250~5350 MHz, Peak Value Data Plot (CH Mid 5300MHz)



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



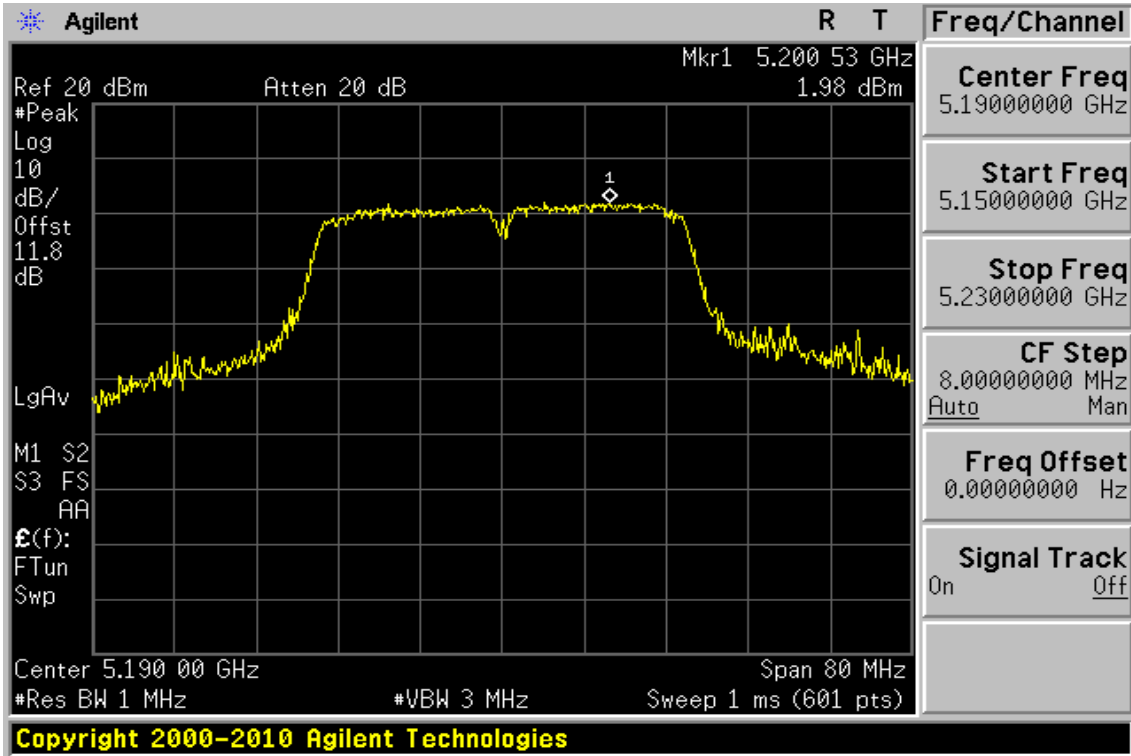
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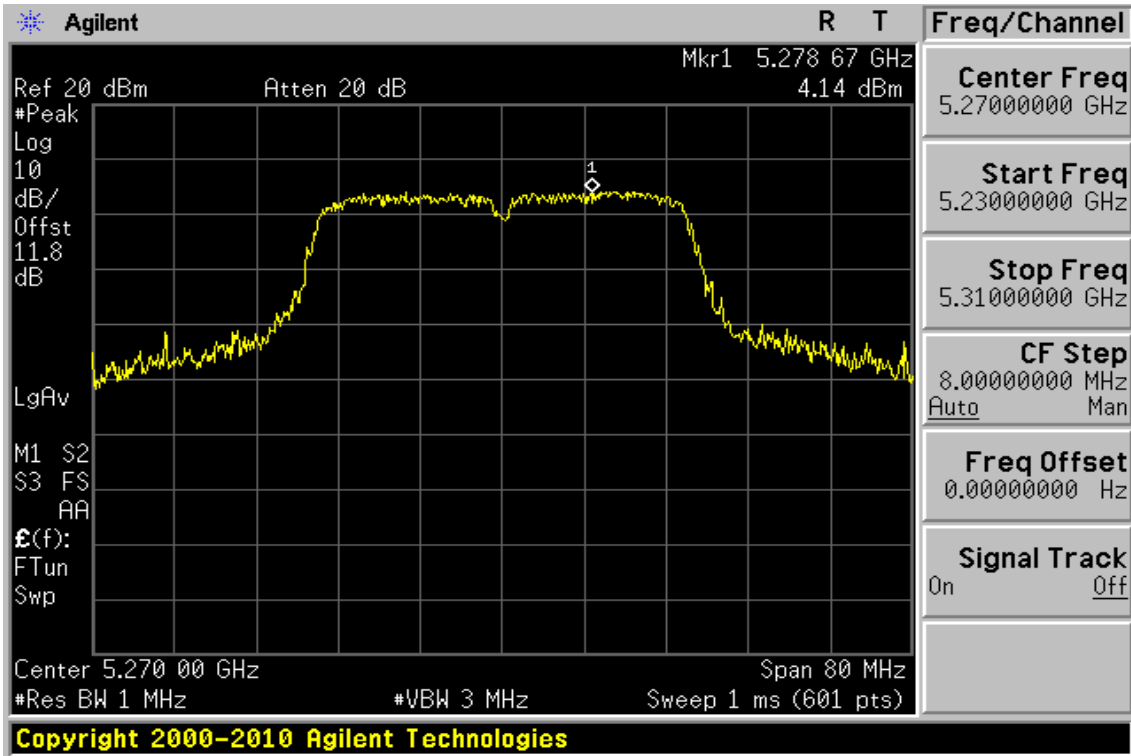
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802.11n HT40, 5150~5250 MHz, Peak Value Data Plot (CH Low 5190 MHz)



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

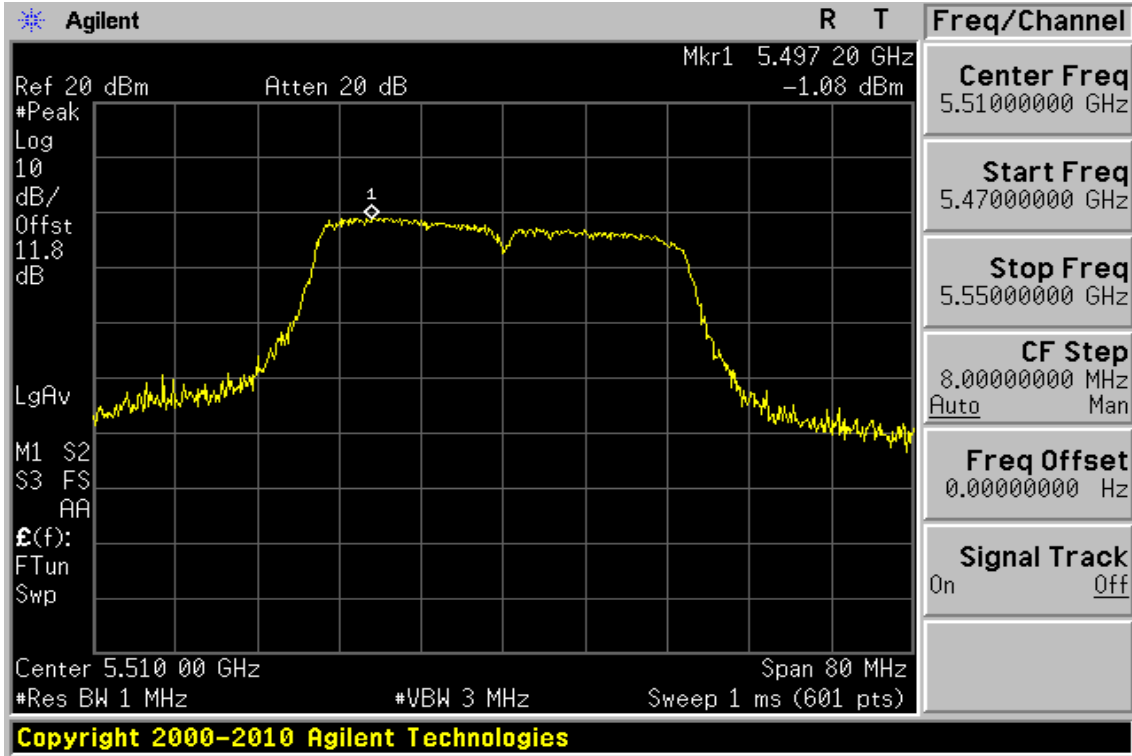


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802.11n HT40, 5470~5725 MHz, Peak Value Data Plot (CH Low 5510MHz)

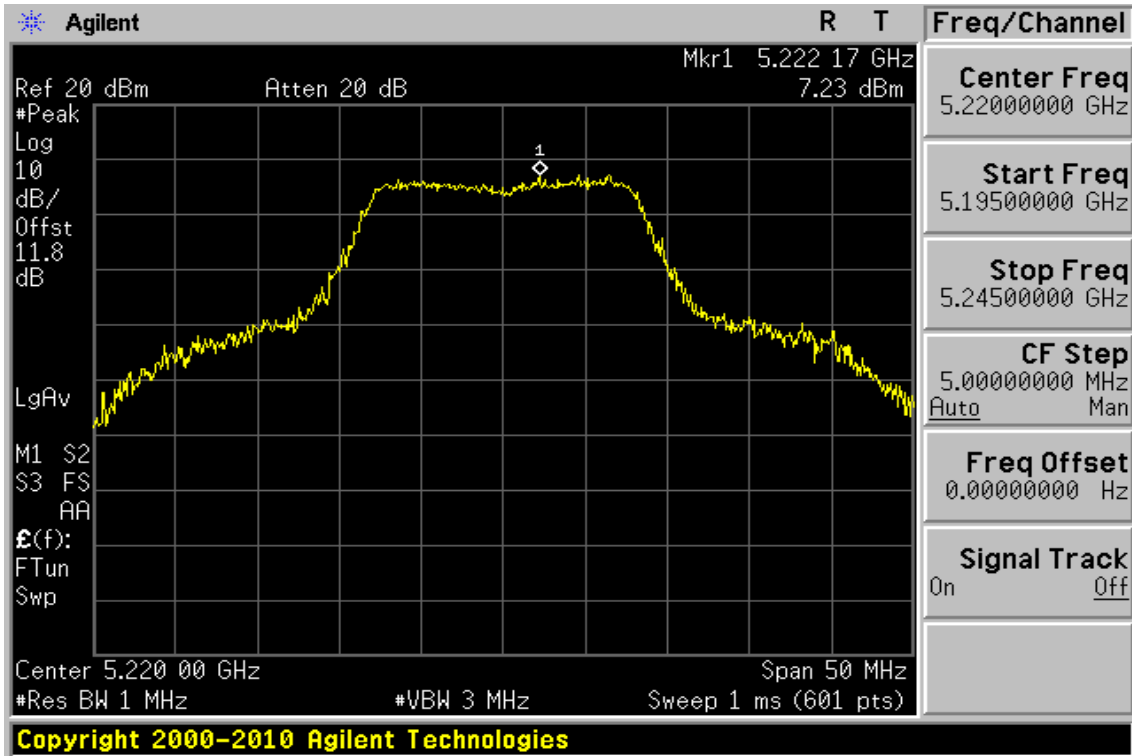


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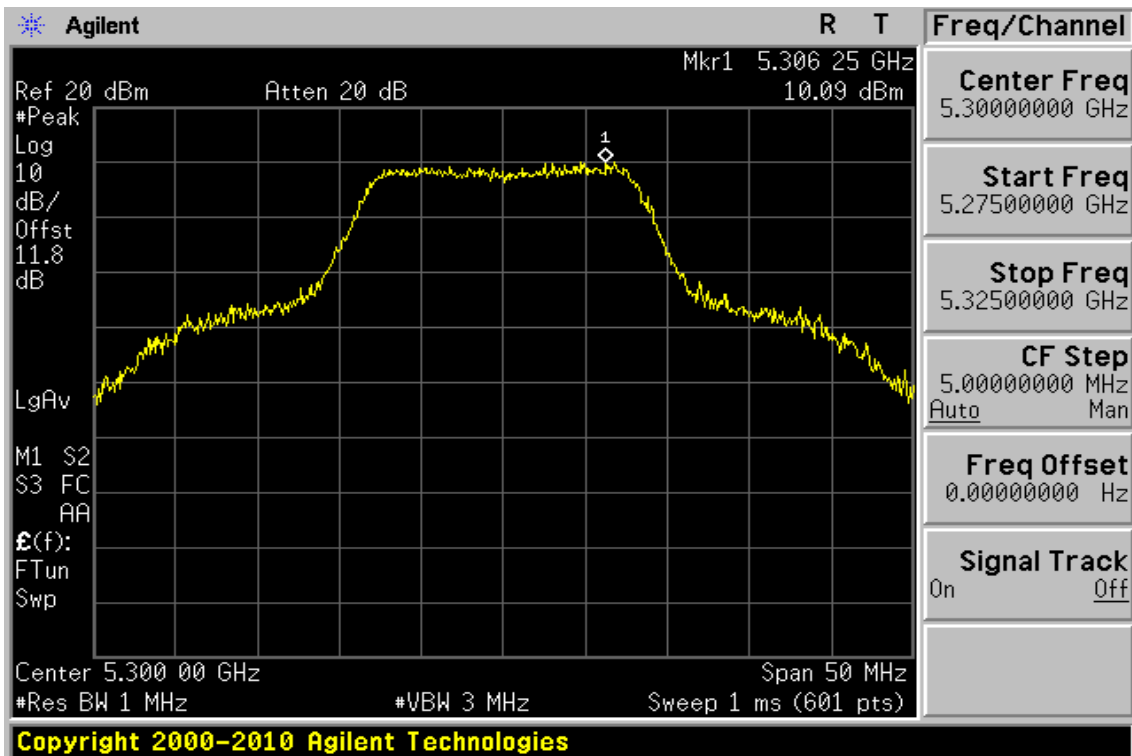
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**Modulation Type: QPSK, Coding Rate: 1/2**  
**802.11a, 5150~5250 MHz, Peak Value Data Plot (CH Mid 5220 MHz)**



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

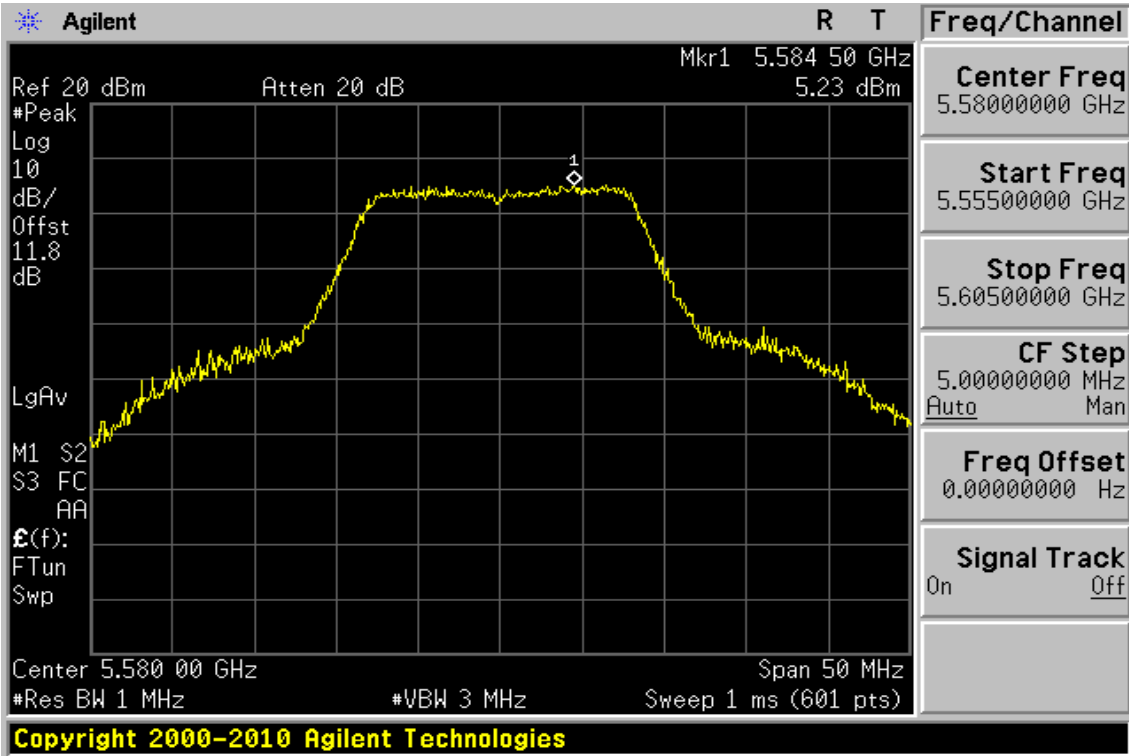


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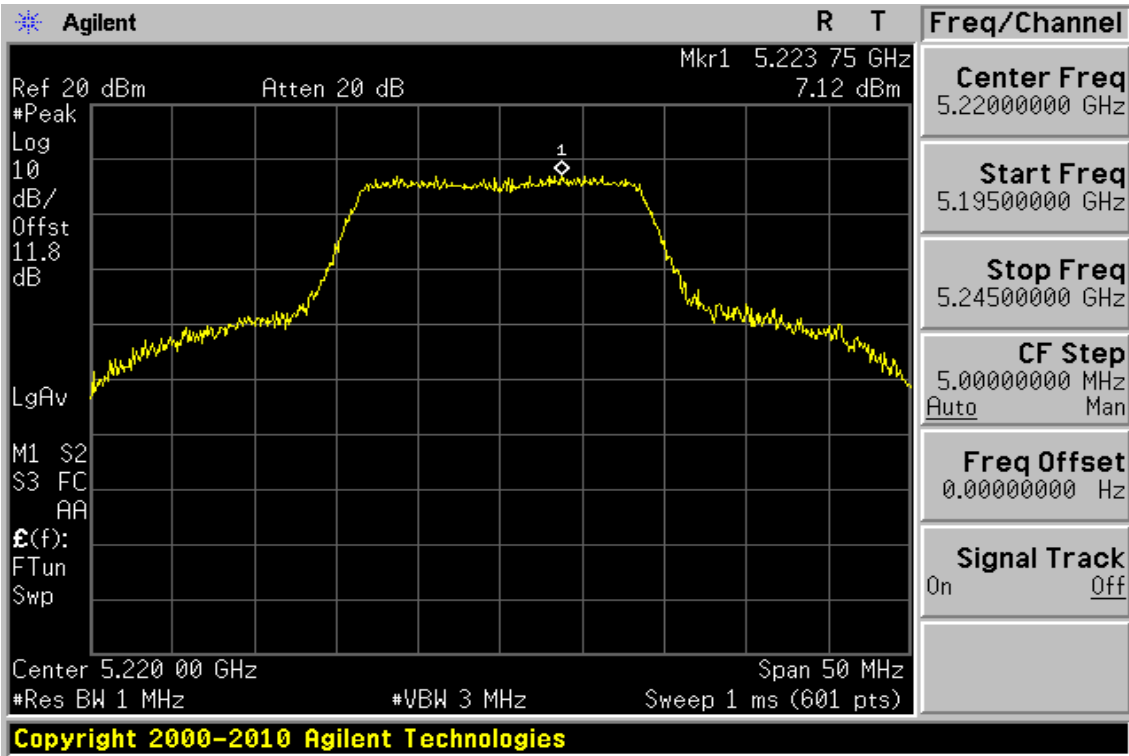
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802.11a, 5470~5725 MHz, Peak Value Data Plot (CH Mid 5580 MHz)



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

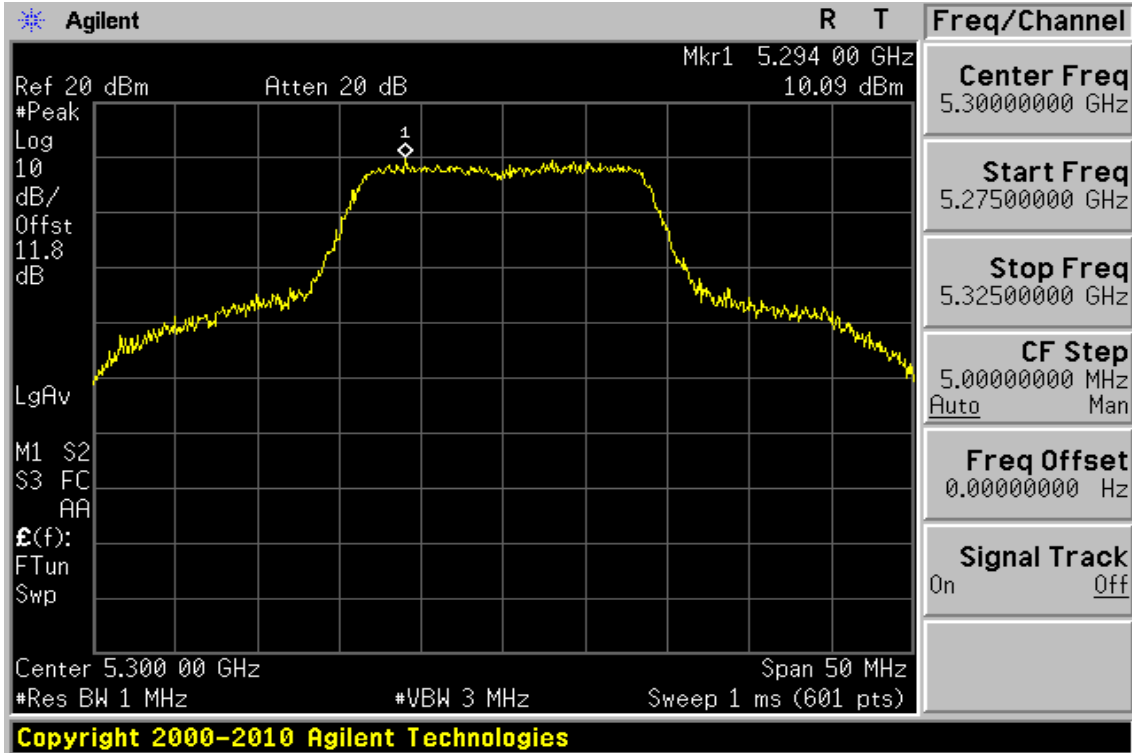


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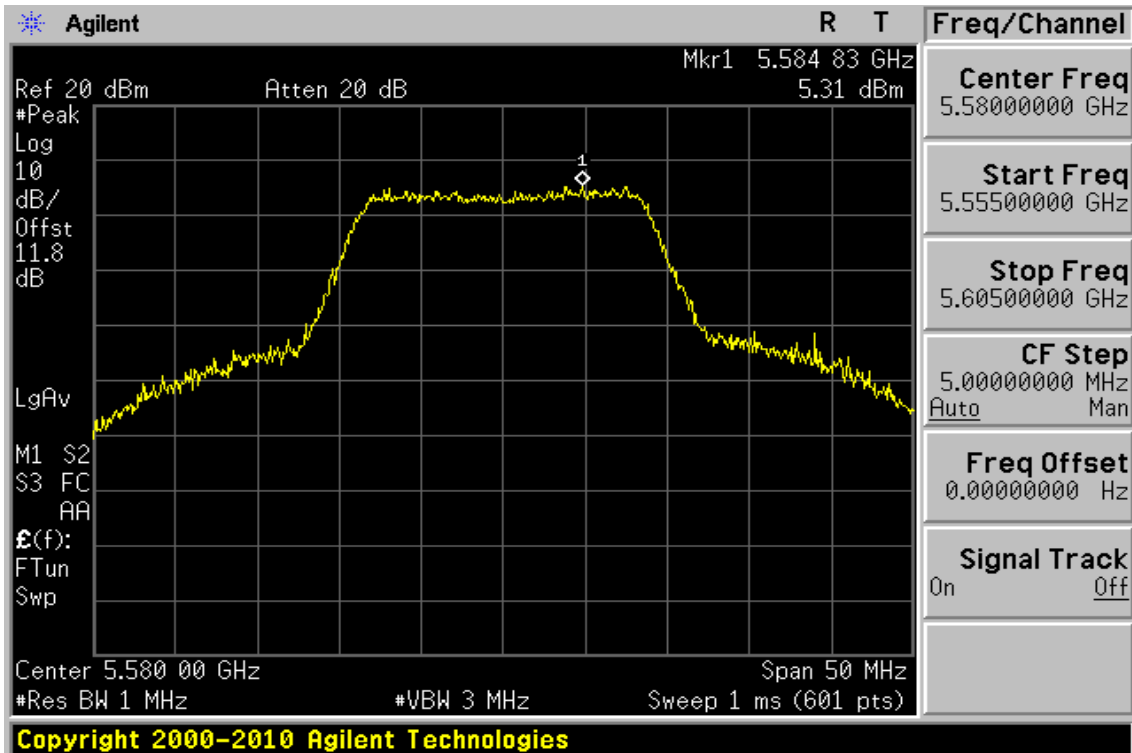
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802.11n HT20, 5250~5350 MHz, Peak Value Data Plot (CH Mid 5300MHz)



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

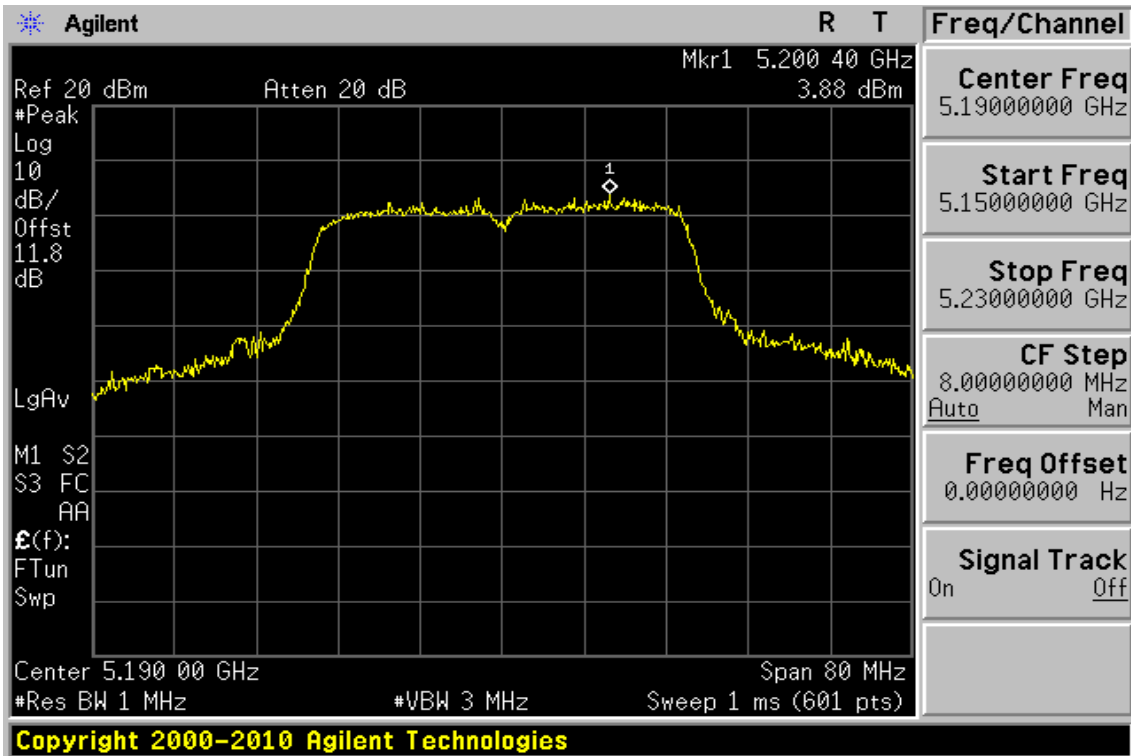


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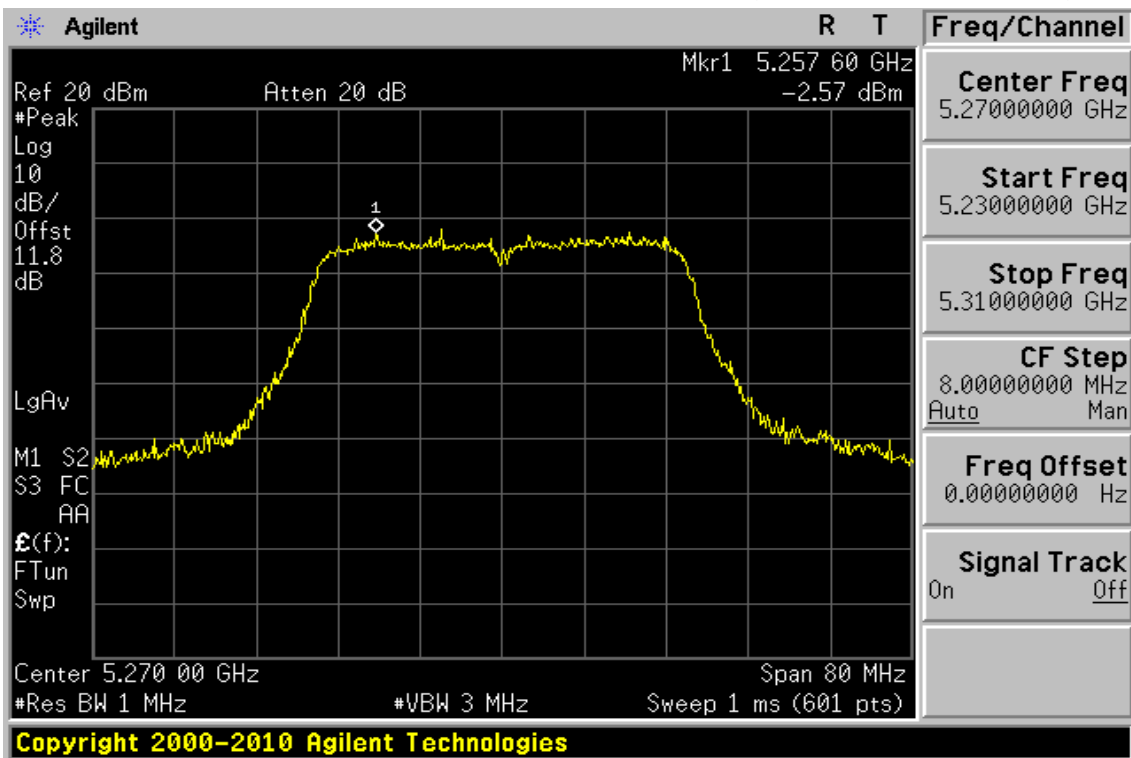
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802.11n HT40, 5150~5250 MHz, Peak Value Data Plot (CH Low 5190 MHz)

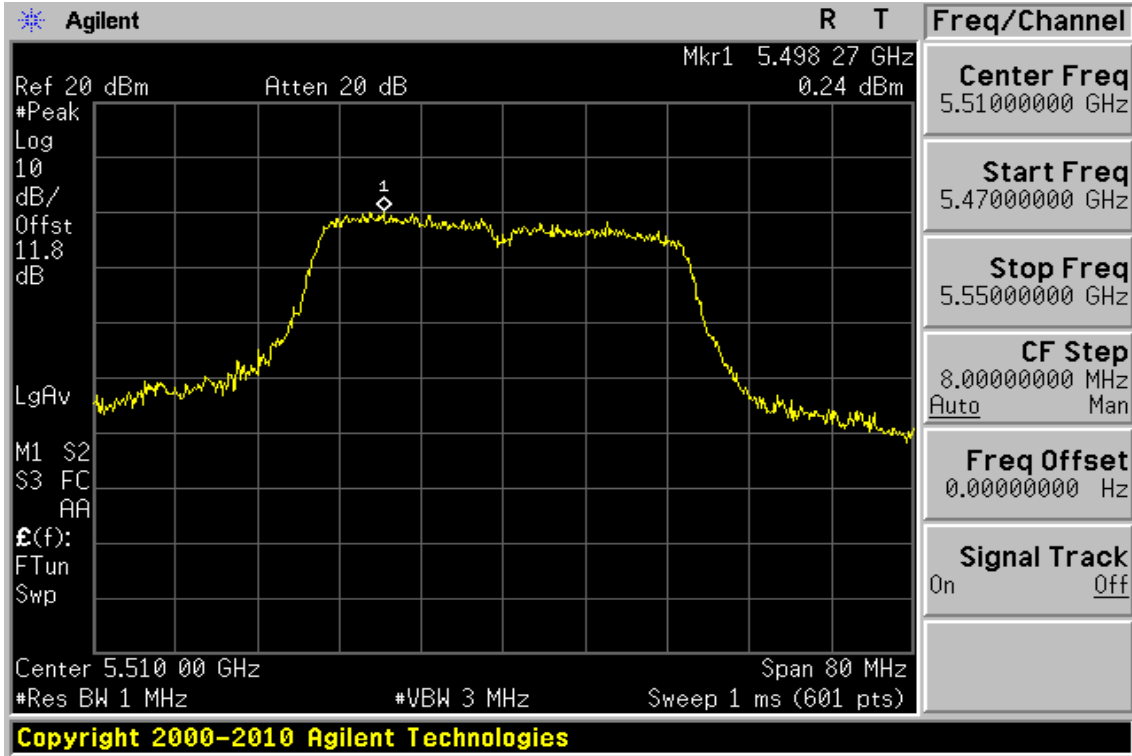


802.11n HT40, 5250~5350 MHz, Peak Value Data Plot (CH Low 5270 MHz)



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



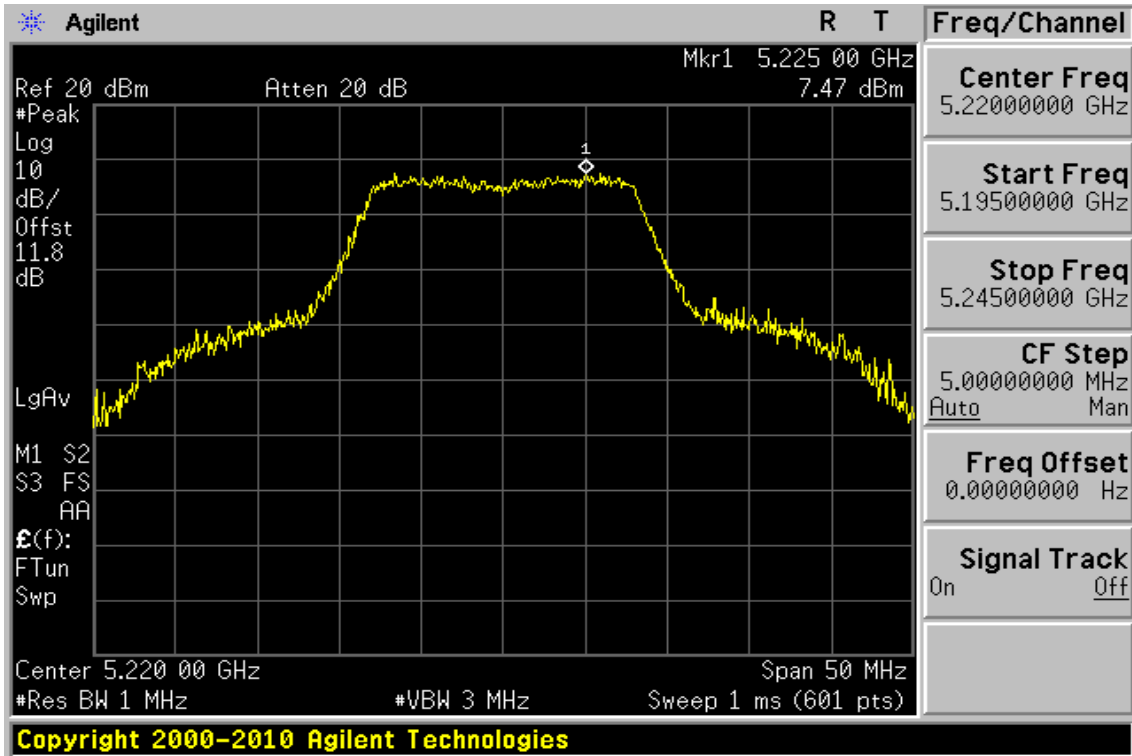
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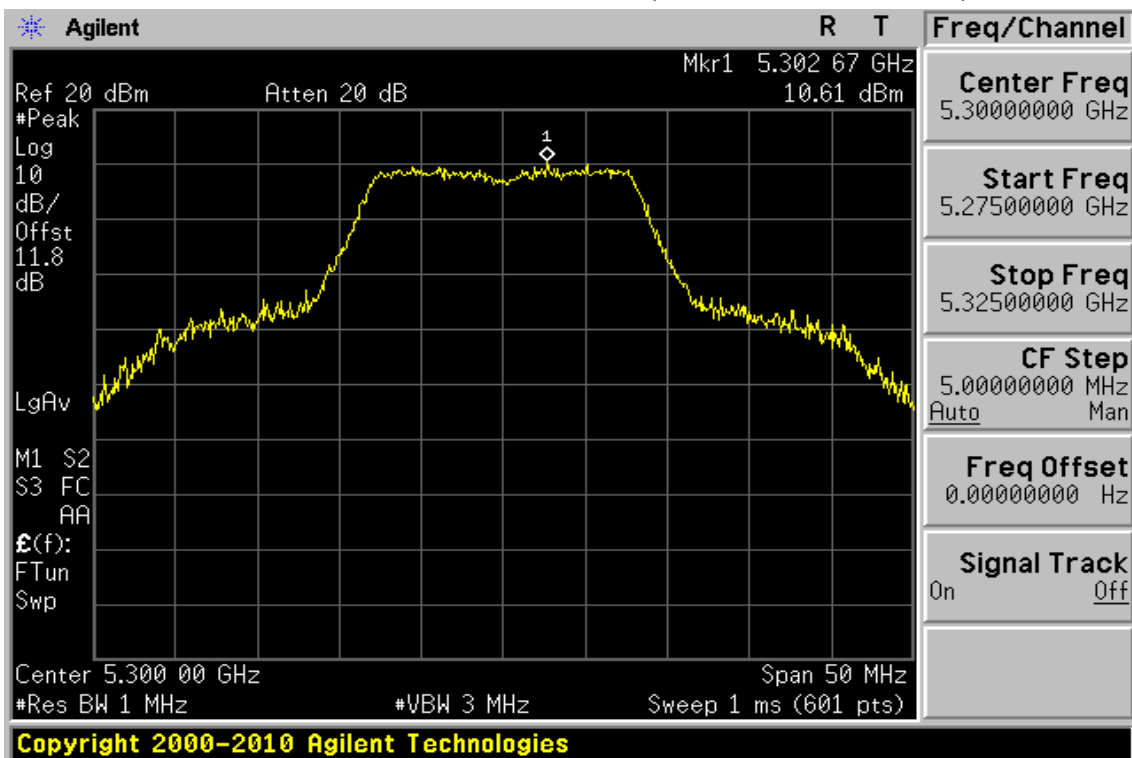
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**Modulation Type: 16-QAM, Coding Rate: 1/2**

**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)**



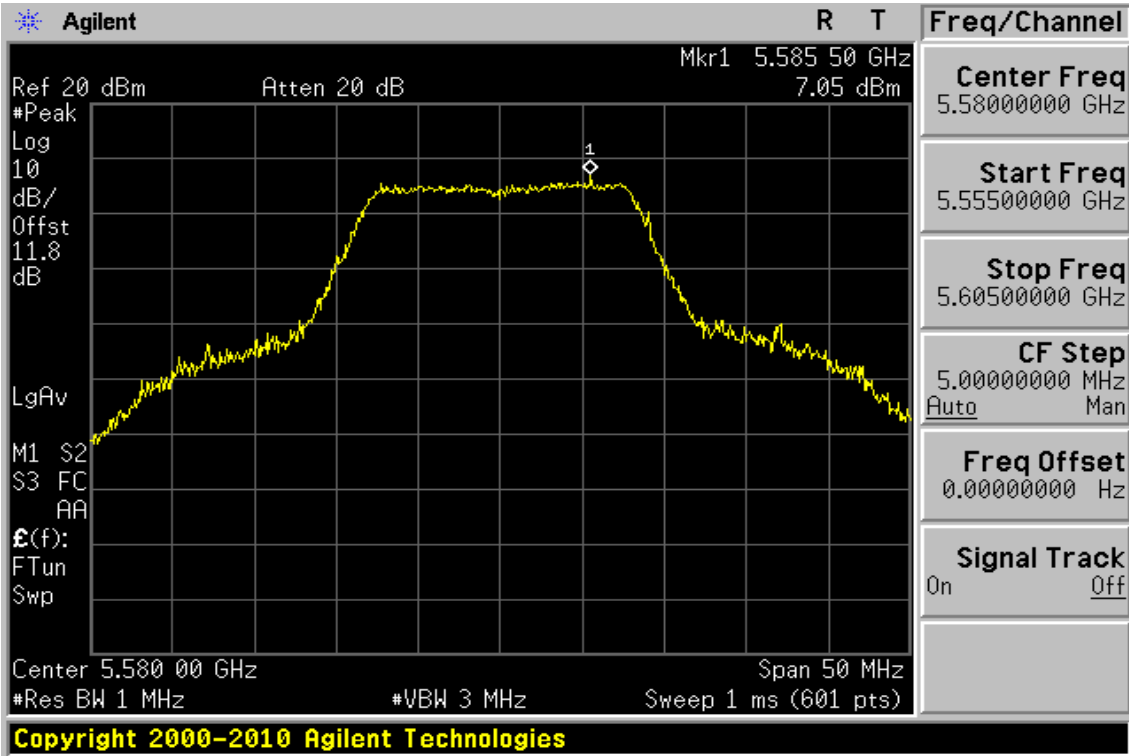
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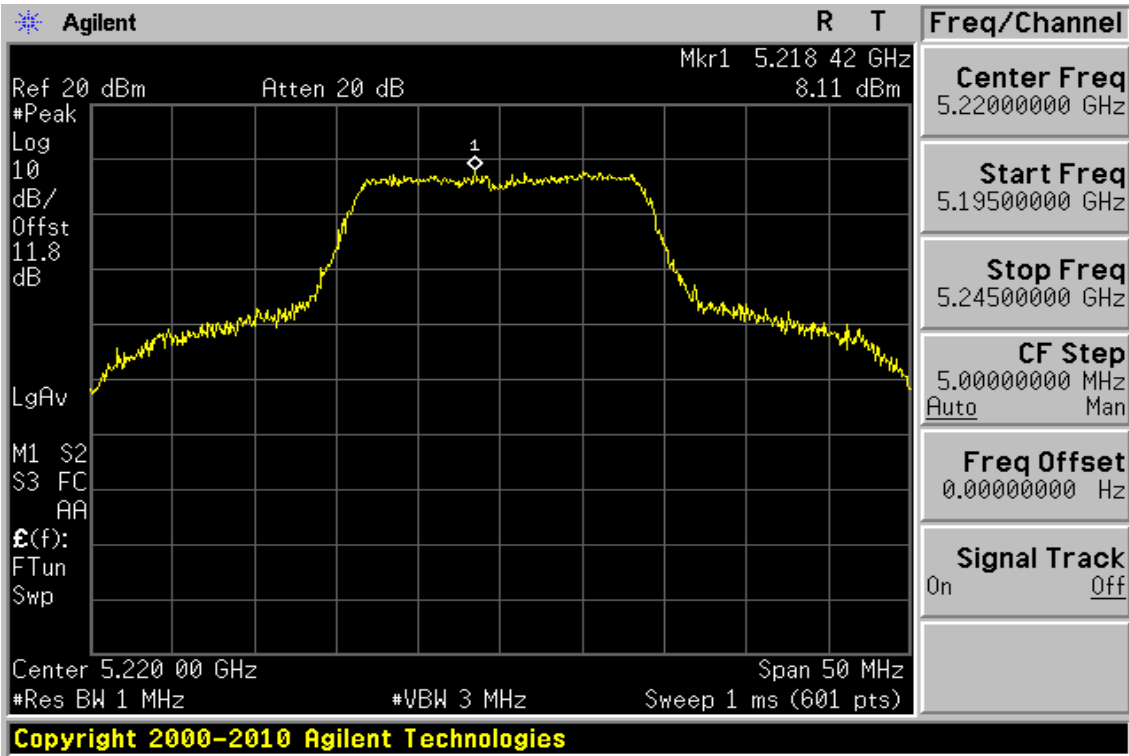
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802.11a, 5470~5725 MHz, Peak Value Data Plot (CH Mid 5580 MHz)



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

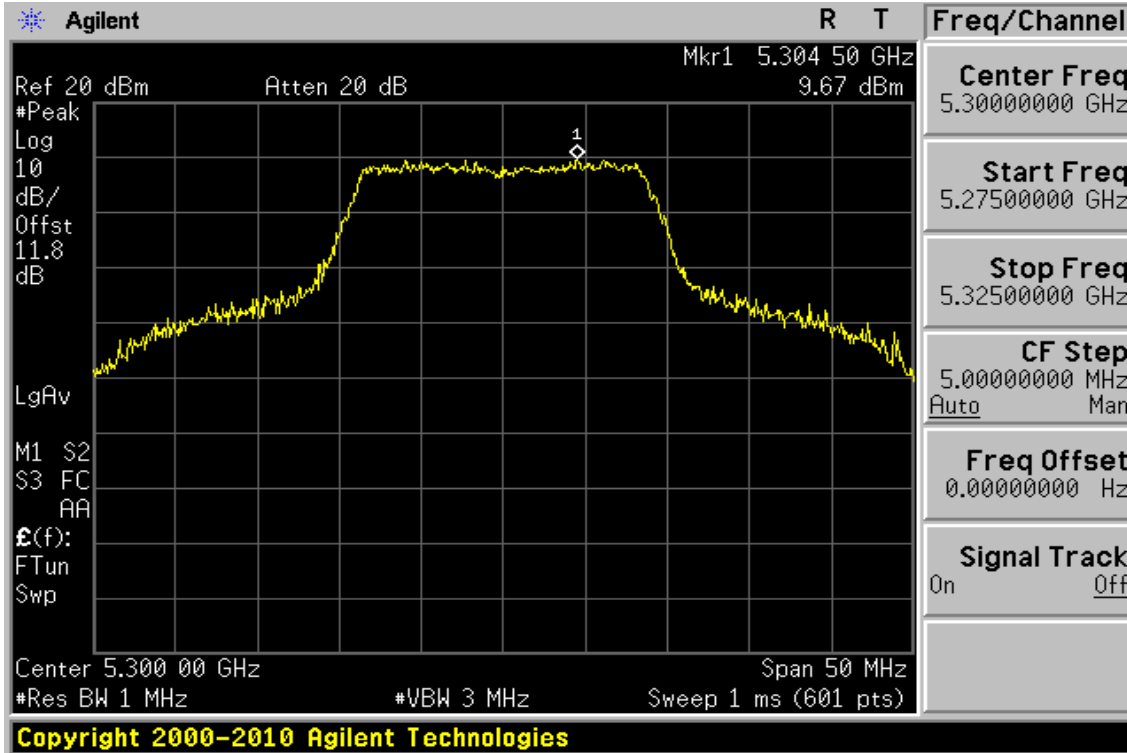


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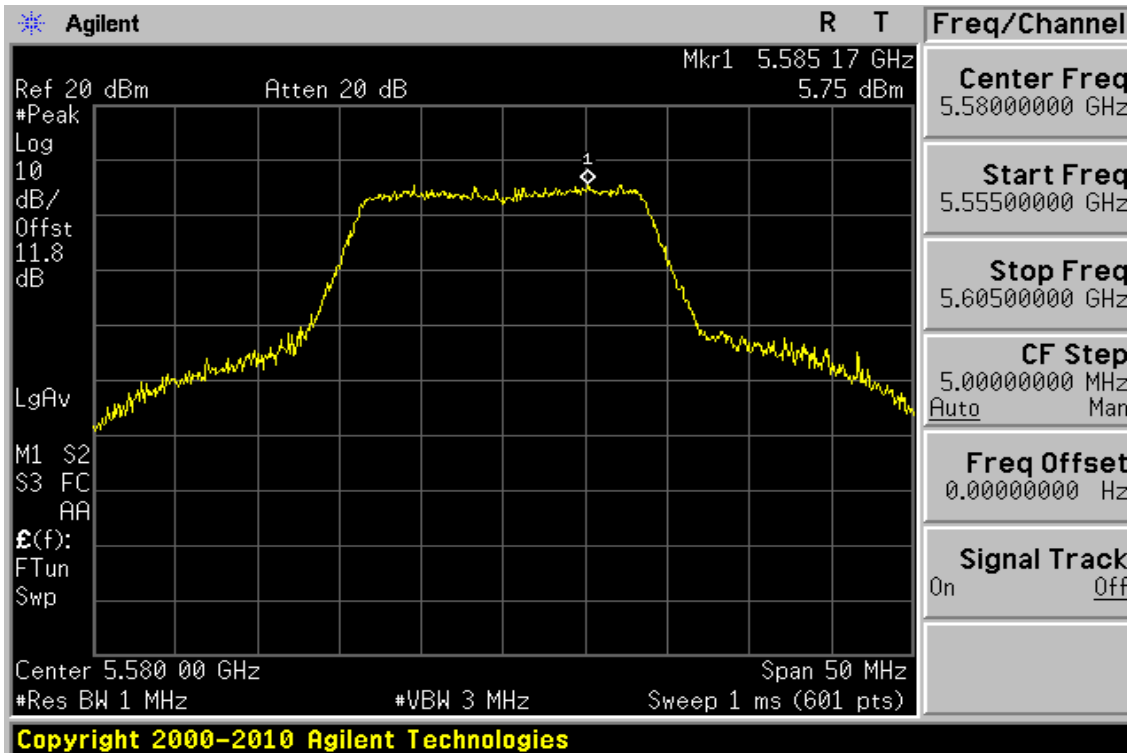
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802.11n HT20, 5250~5350 MHz, Peak Value Data Plot (CH Mid 5300MHz)

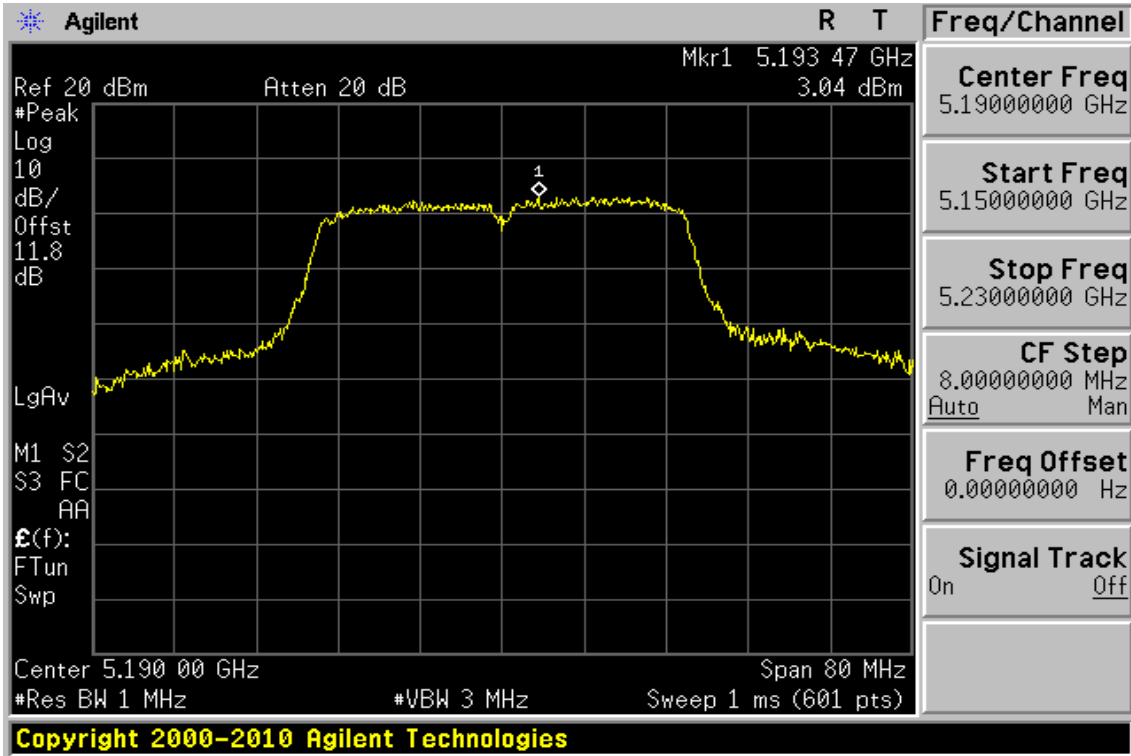


802.11n HT20, 5470~5725 MHz, Peak Value Data Plot (CH Mid 5580 MHz)

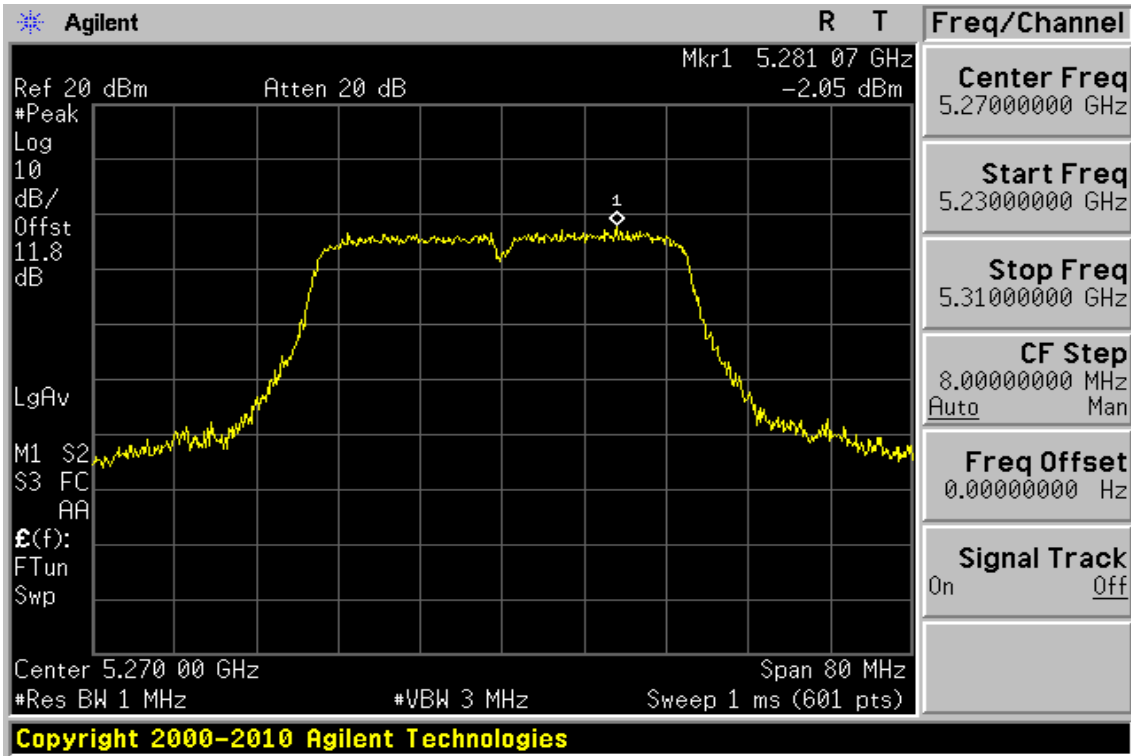


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802.11n HT40, 5150~5250 MHz, Peak Value Data Plot (CH Low 5190 MHz)



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

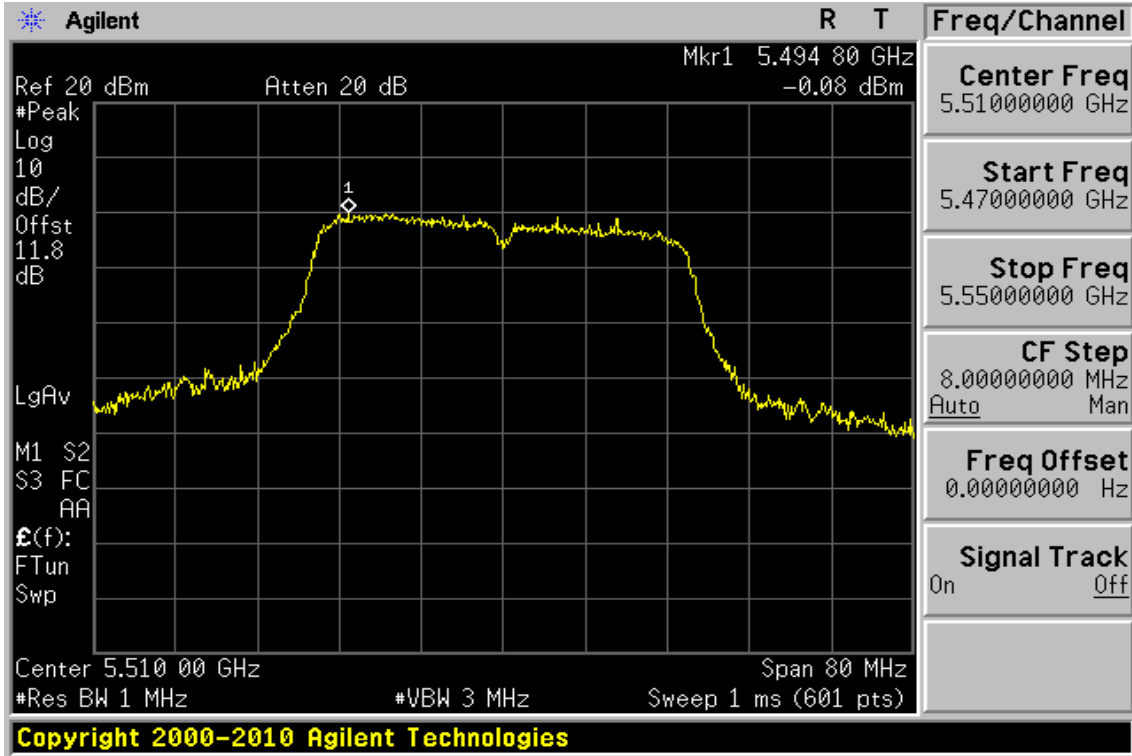


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802.11n HT40, 5470~5725 MHz, Peak Value Data Plot (CH Low 5510MHz)



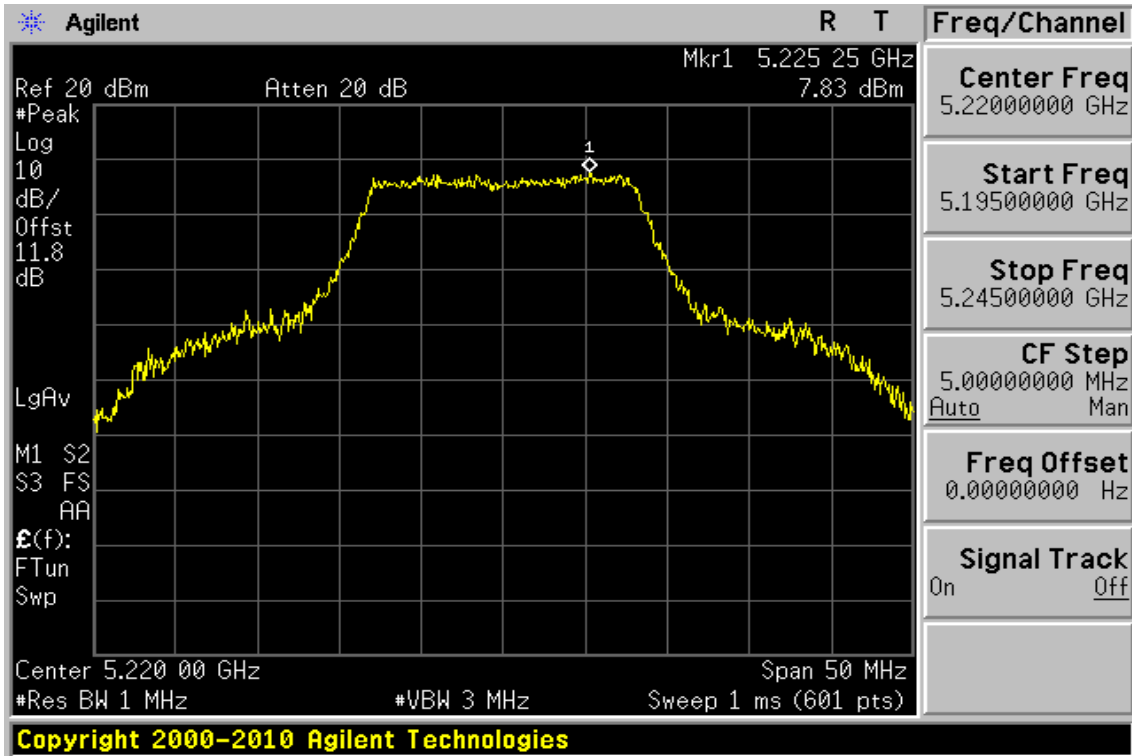
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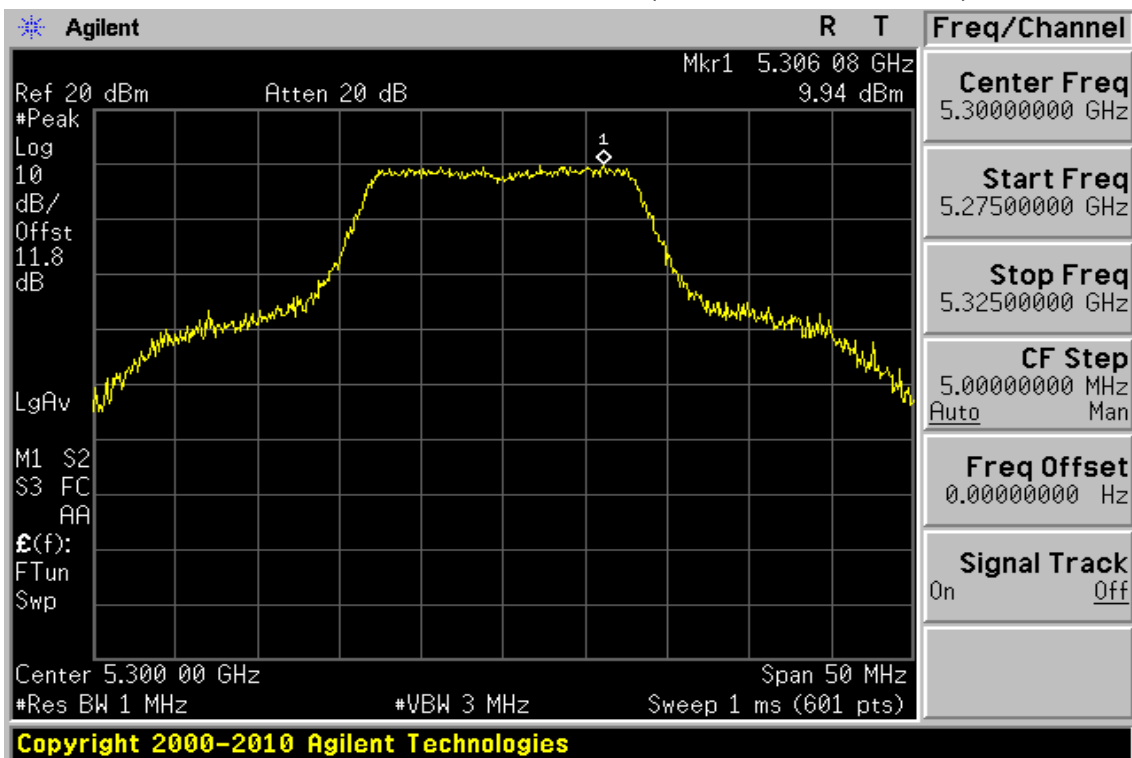
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**Modulation Type: 64-QAM, Coding Rate: 2/3**

**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)**

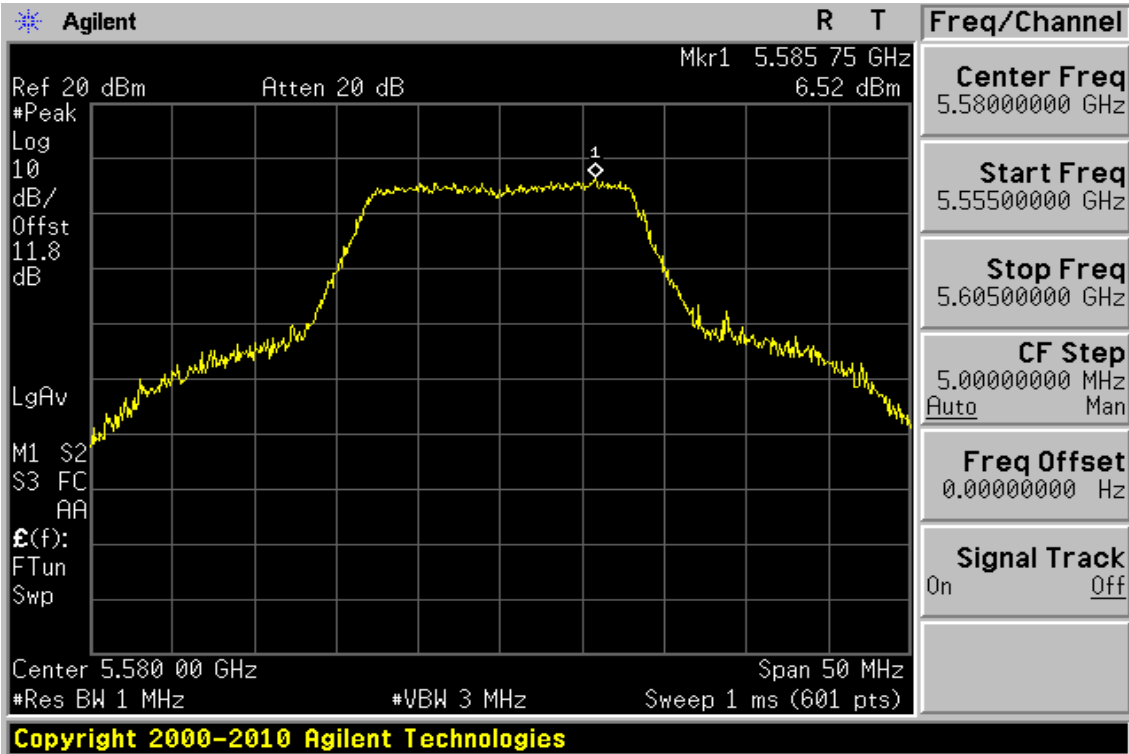


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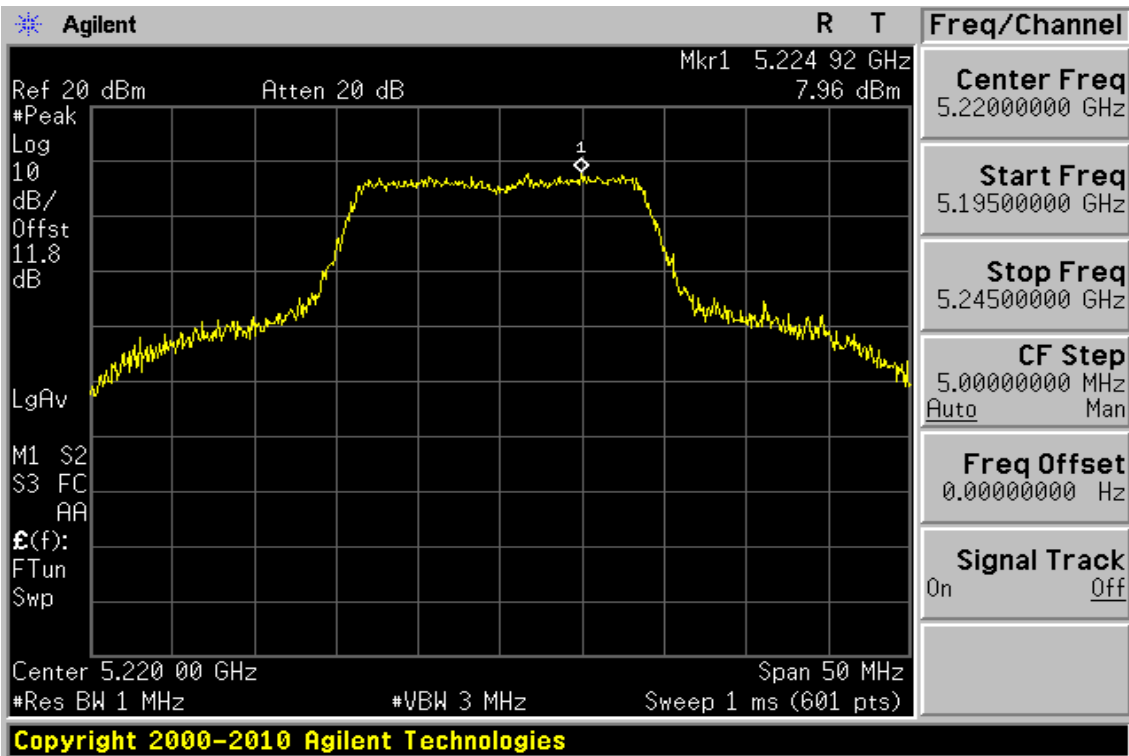
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802.11a, 5470~5725 MHz, Peak Value Data Plot (CH Mid 5580 MHz)



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

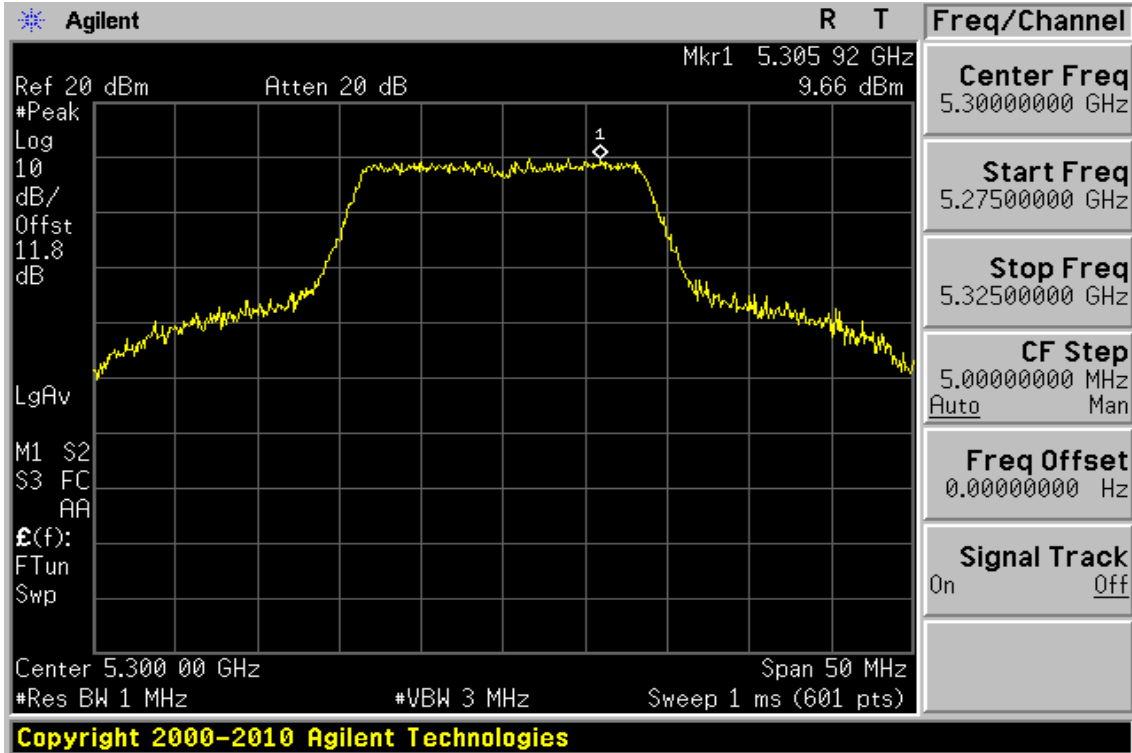


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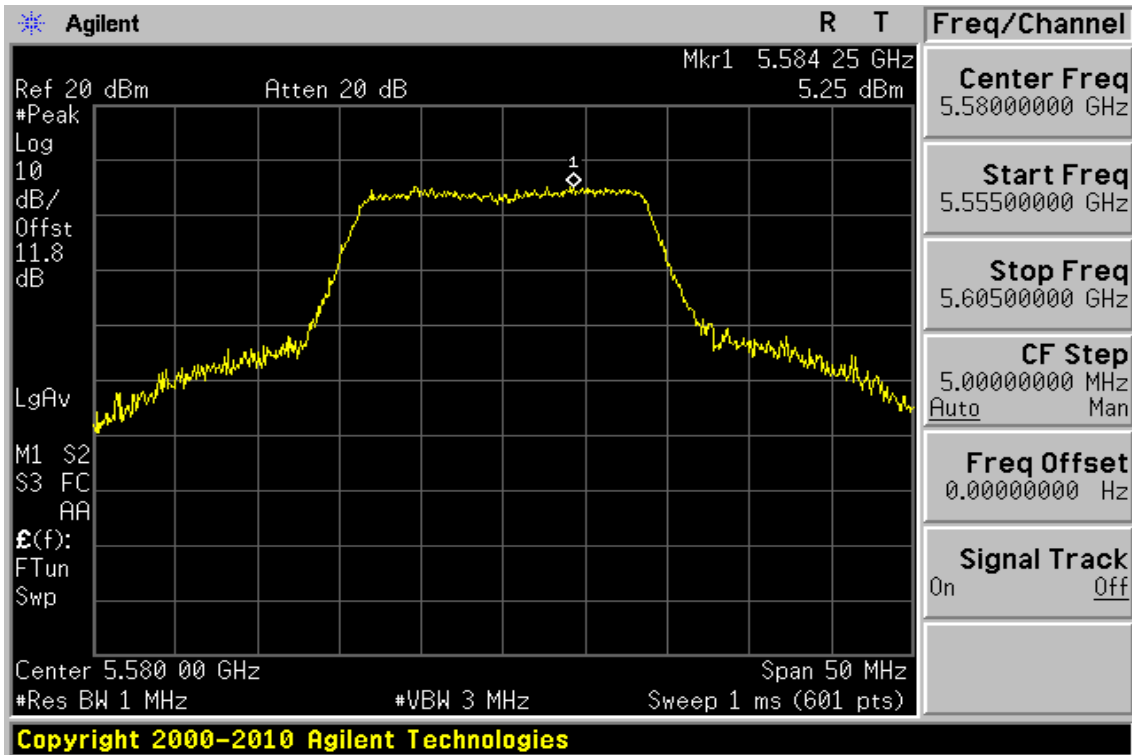
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802.11n HT20, 5250~5350 MHz, Peak Value Data Plot (CH Mid 5300MHz)



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

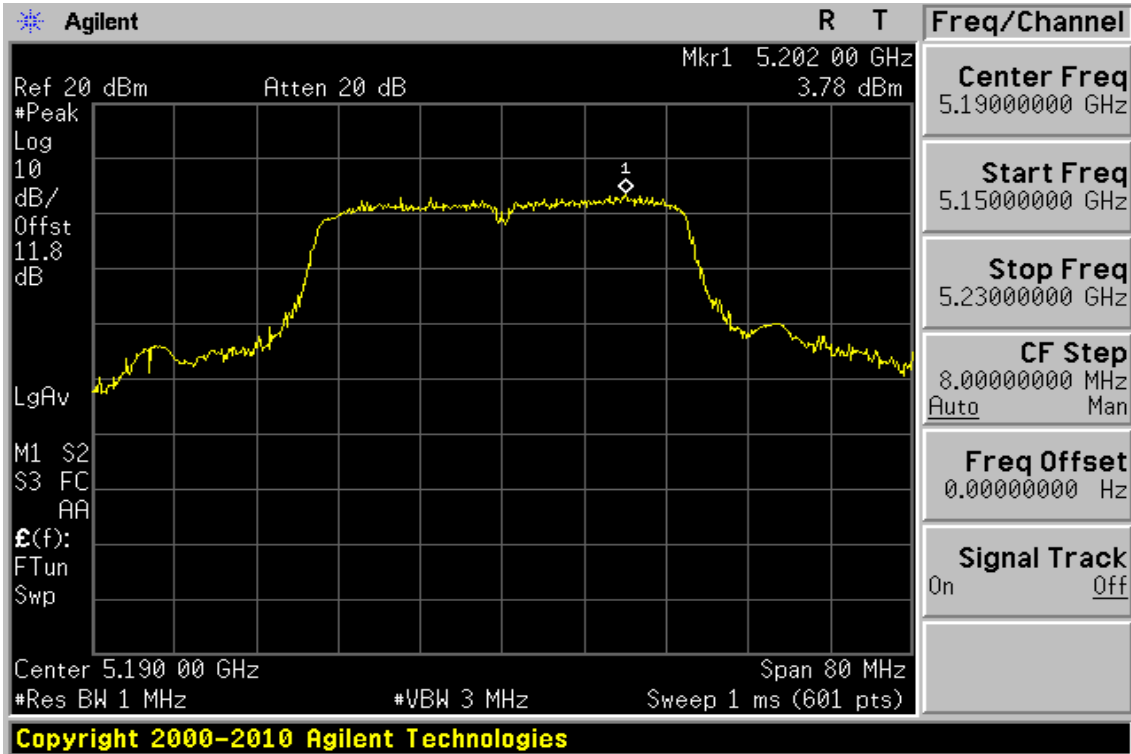


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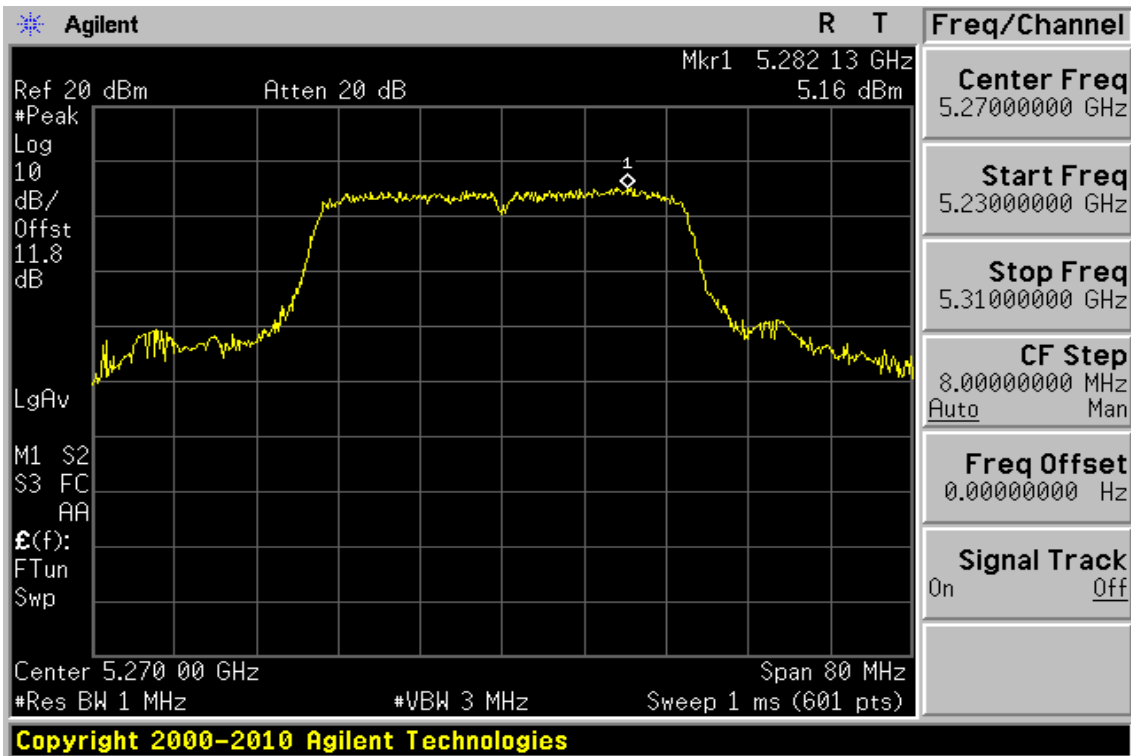
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802.11n HT40, 5150~5250 MHz, Peak Value Data Plot (CH Low 5190 MHz)



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



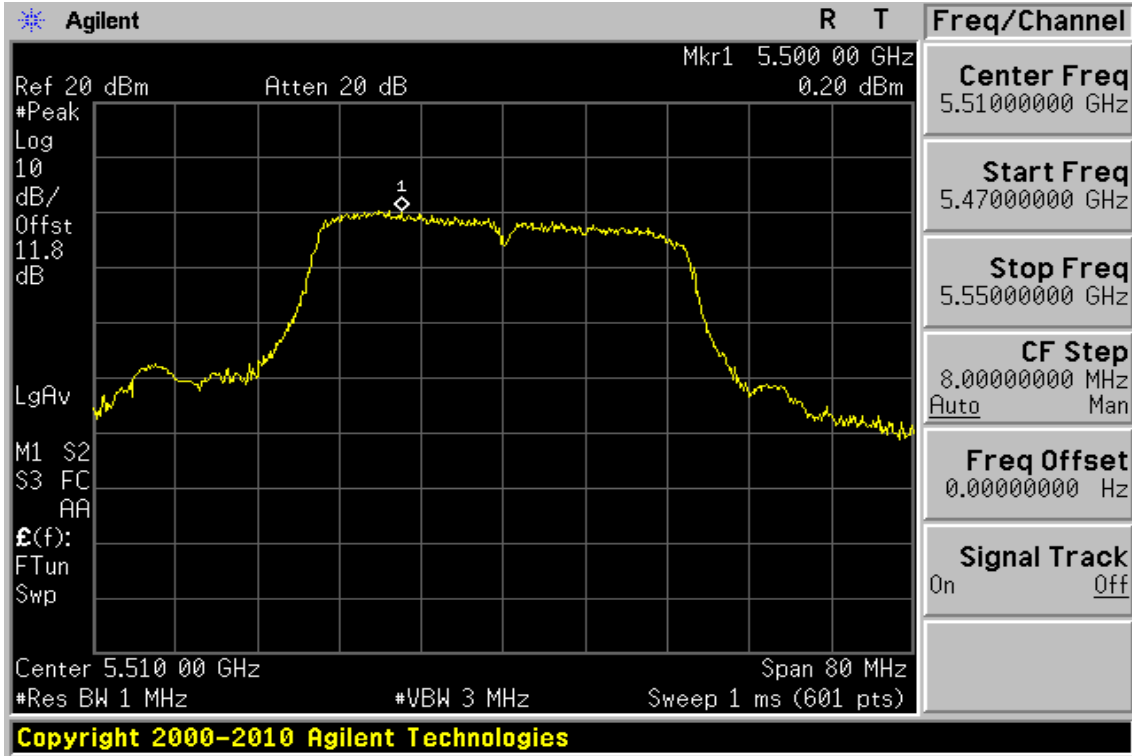
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802.11n HT40, 5470~5725 MHz, Peak Value Data Plot (CH Low 5510MHz)

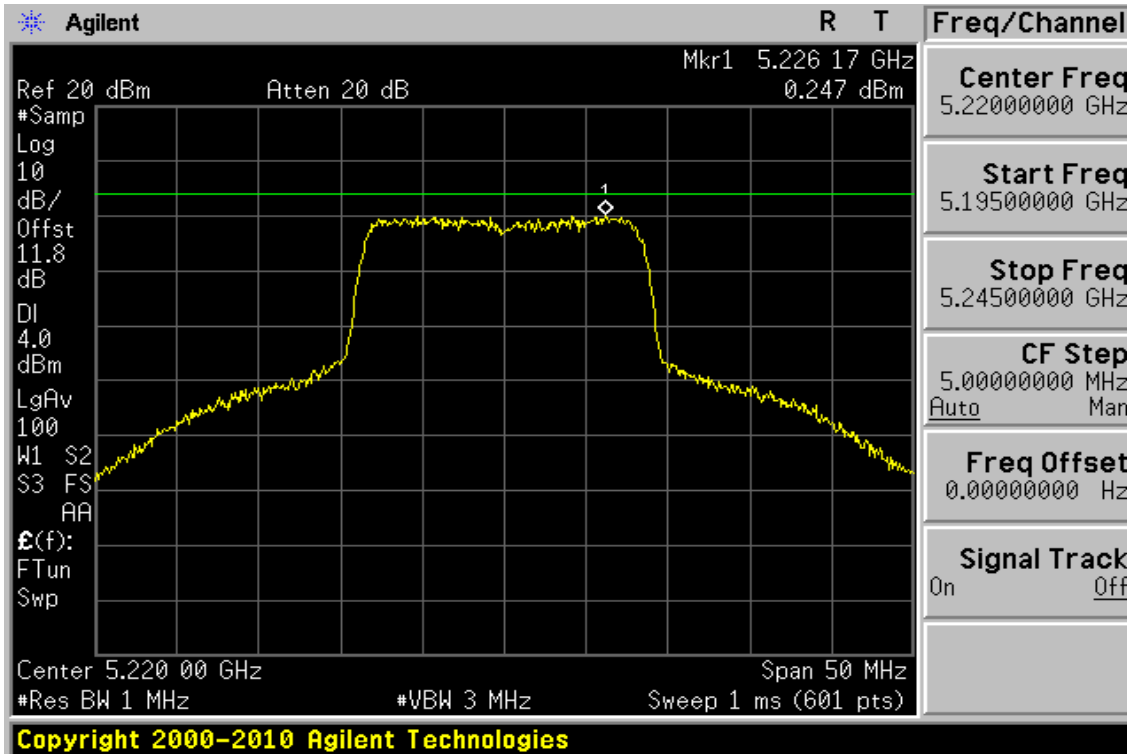


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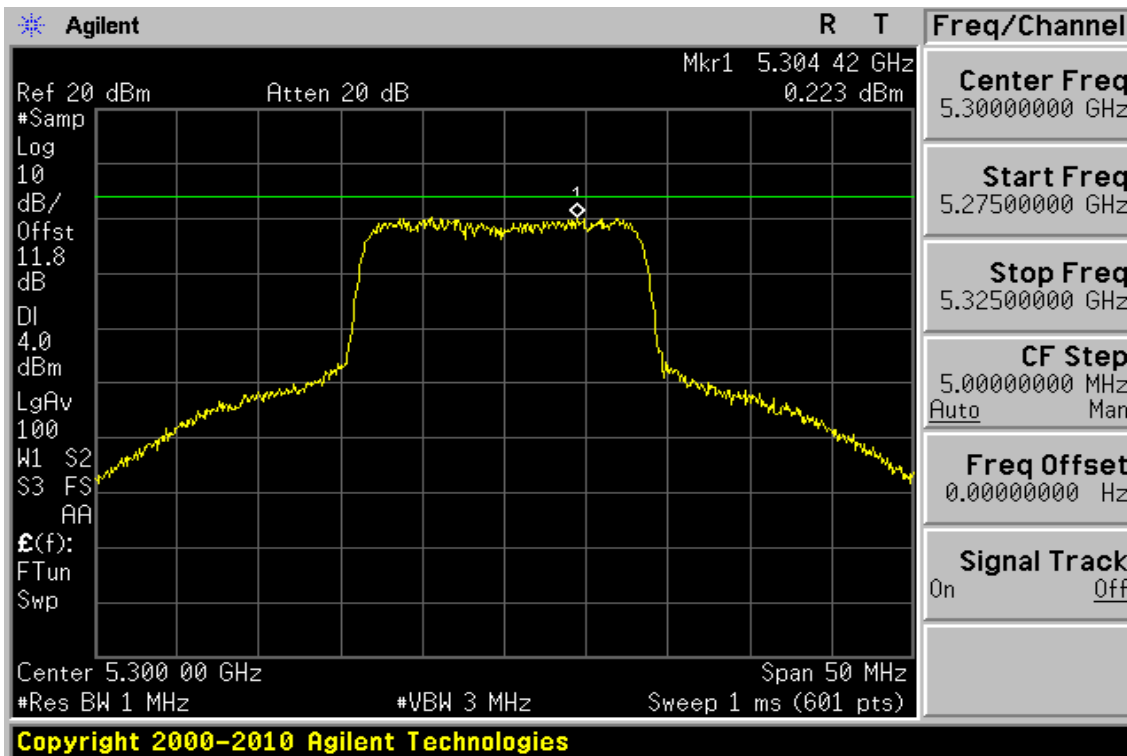
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**Modulation Type: BPSK, Coding Rate: 1/2**  
**PPSD Data Plot (CH Mid 5220 MHz)**



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

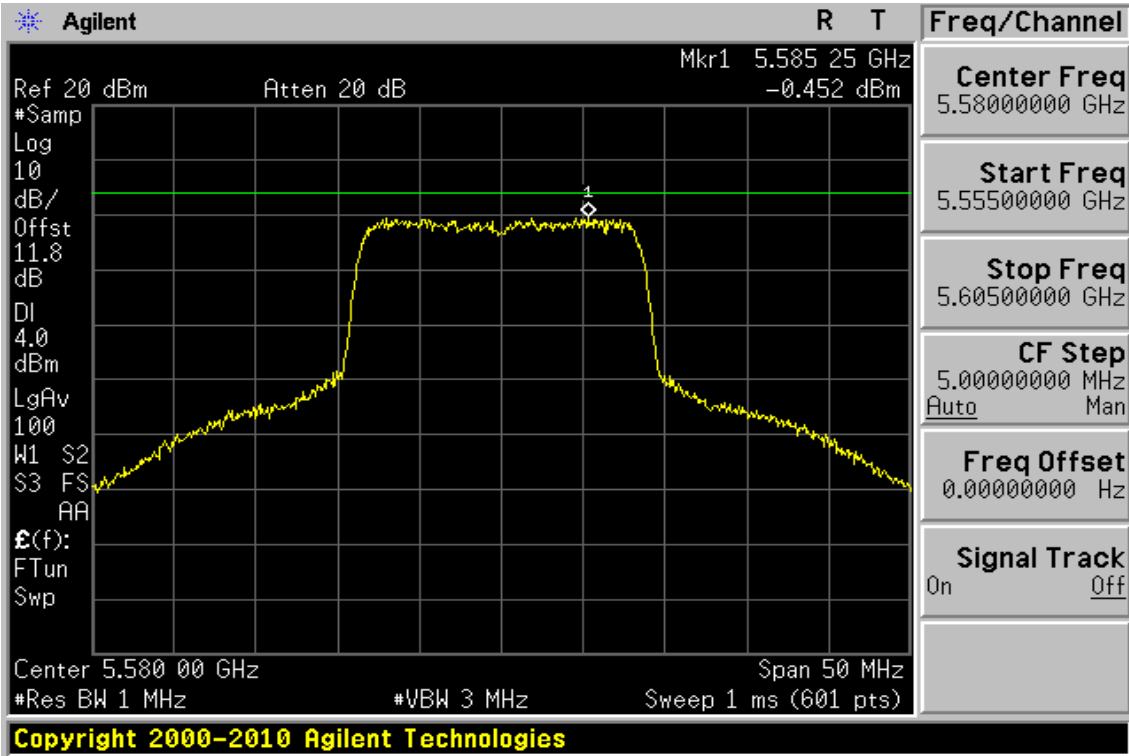


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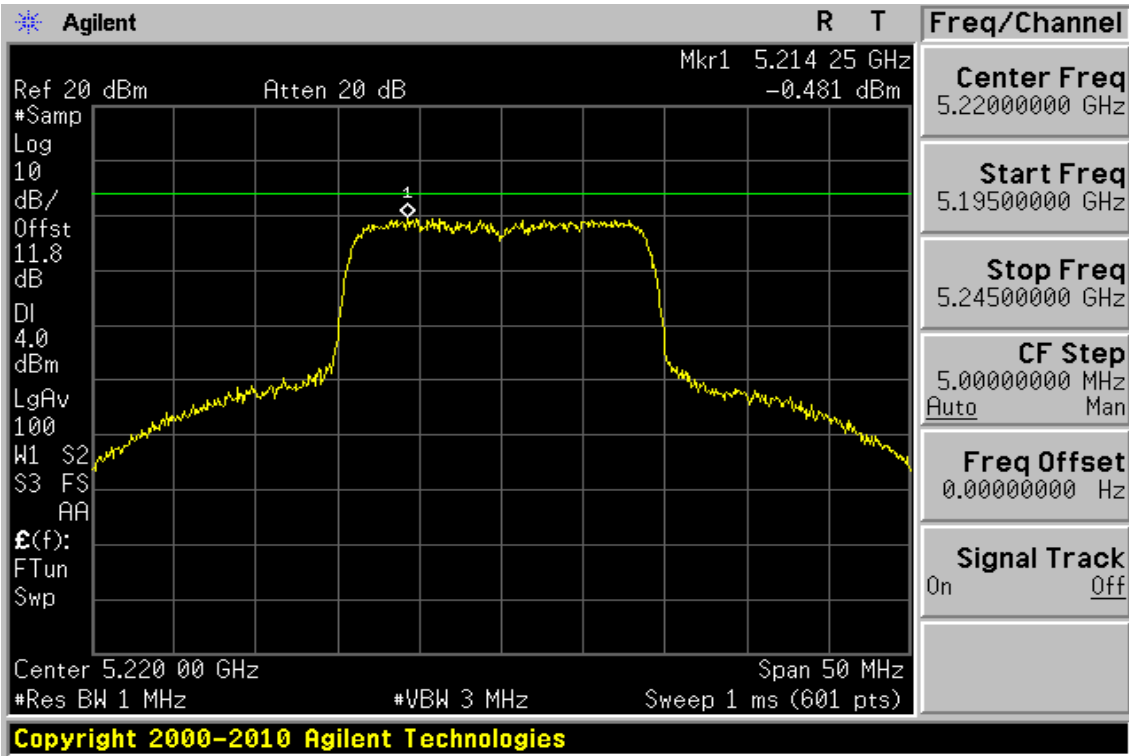
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**802.11a, 5470~5725 MHz, PPSD Data Plot (CH Mid 5580 MHz)**



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

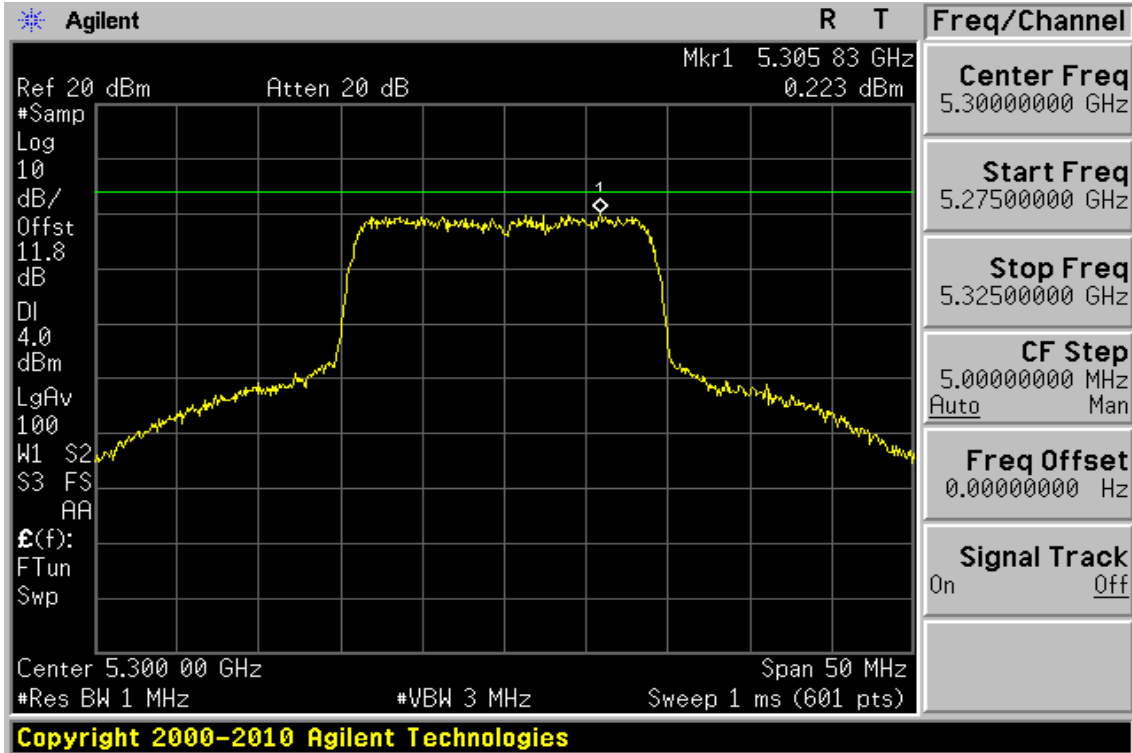


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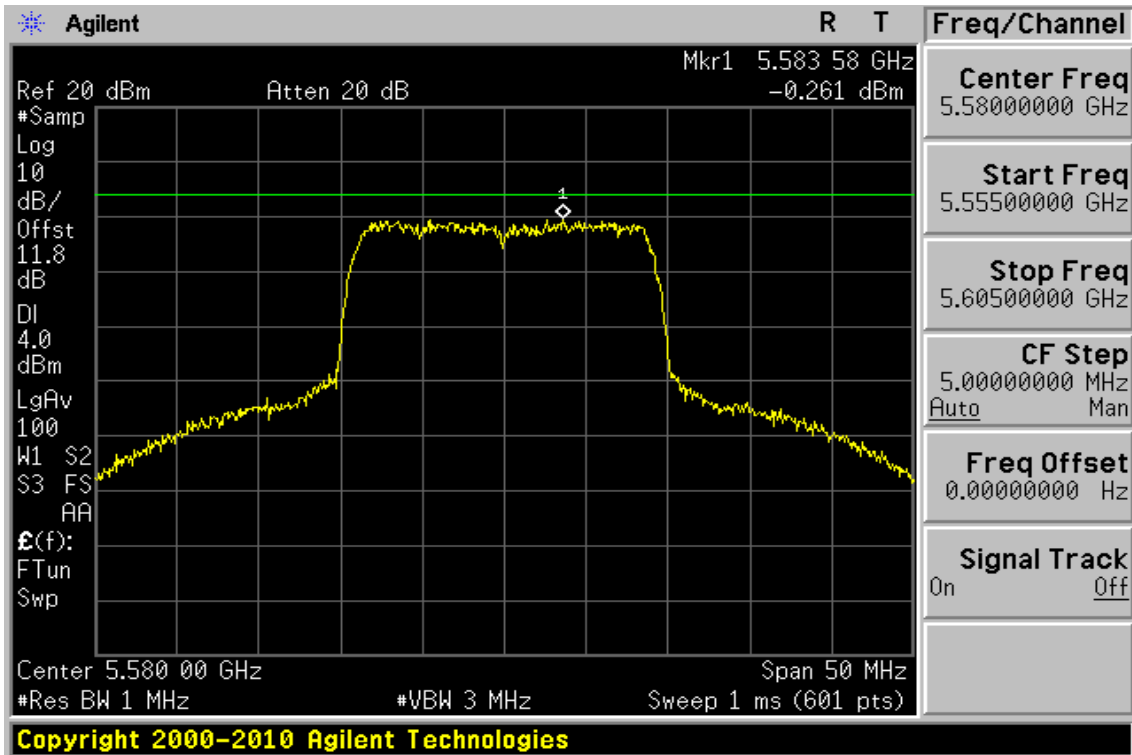
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**802.11n HT20, 5250~5350 MHz, PPSD Data Plot (CH Mid 5300 MHz)**



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

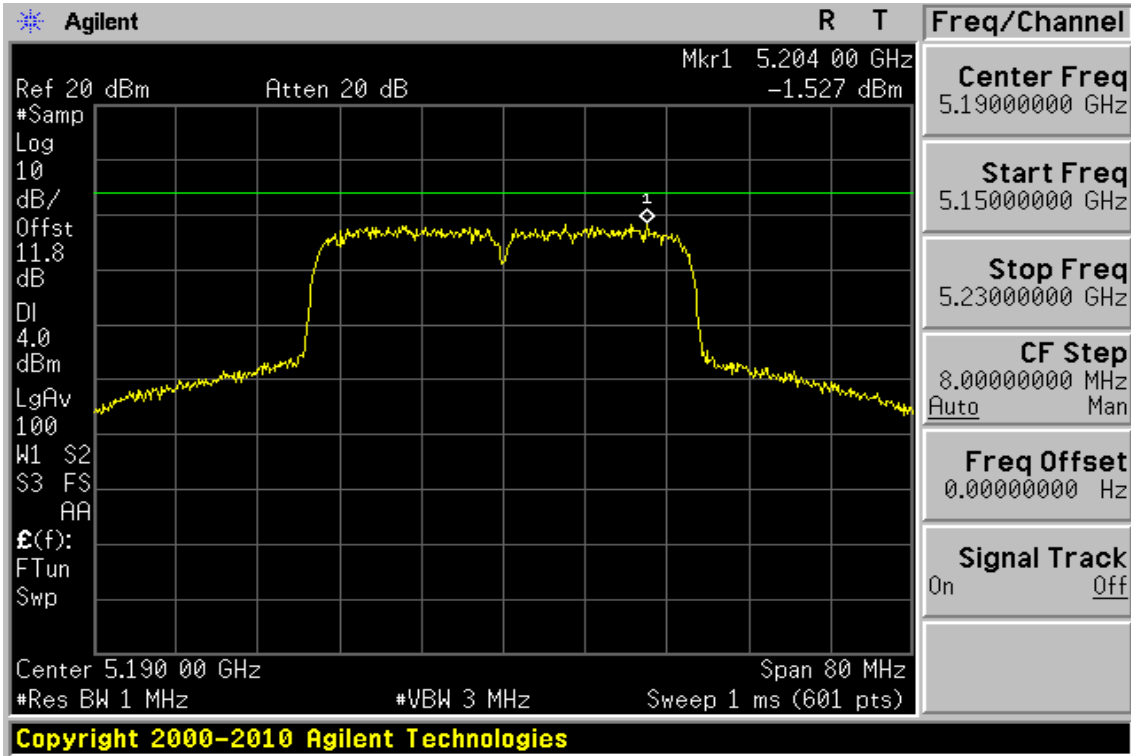


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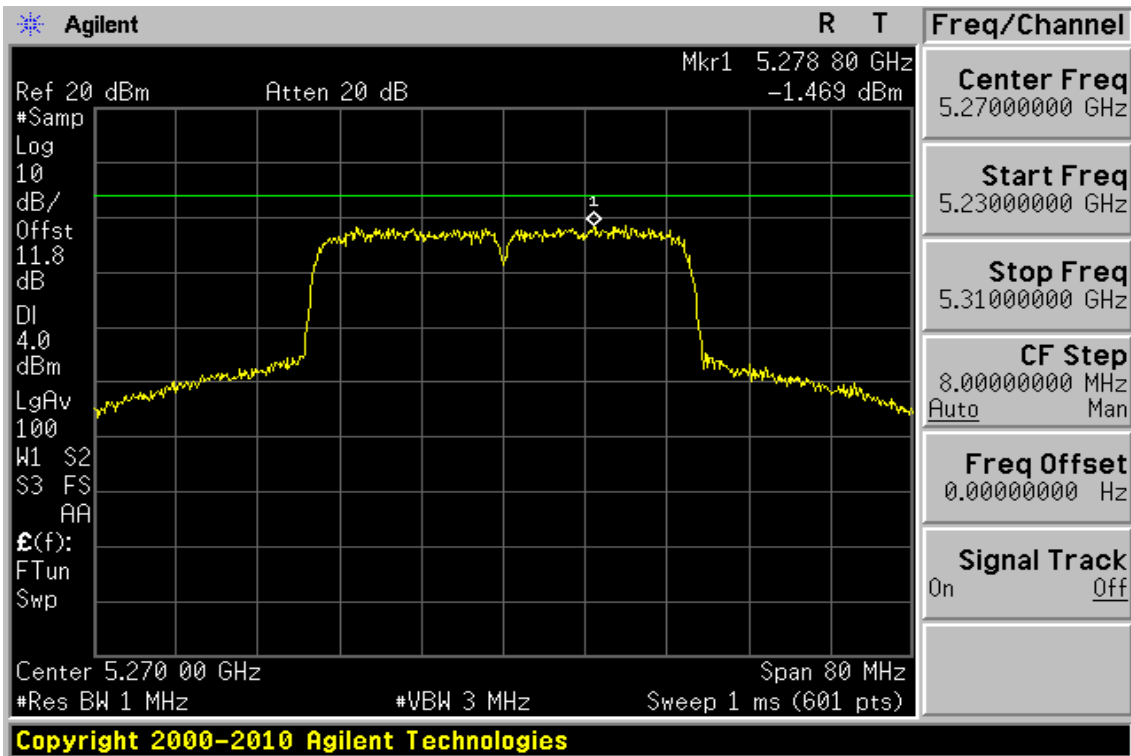
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**802.11n HT40, 5150~5250 MHz, PPSD Data Plot (CH Low 5190 MHz)**



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

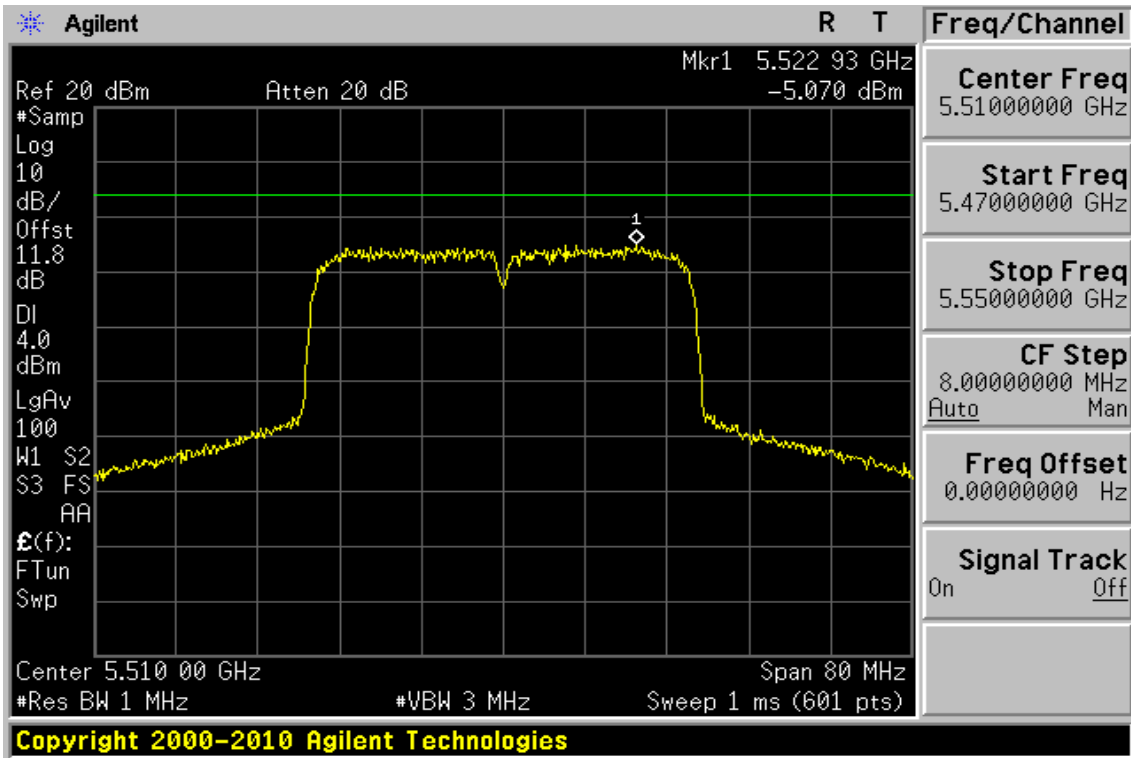


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802.11n HT40, 5470~5725 MHz, PPSD Data Plot (CH Low 5510 MHz)

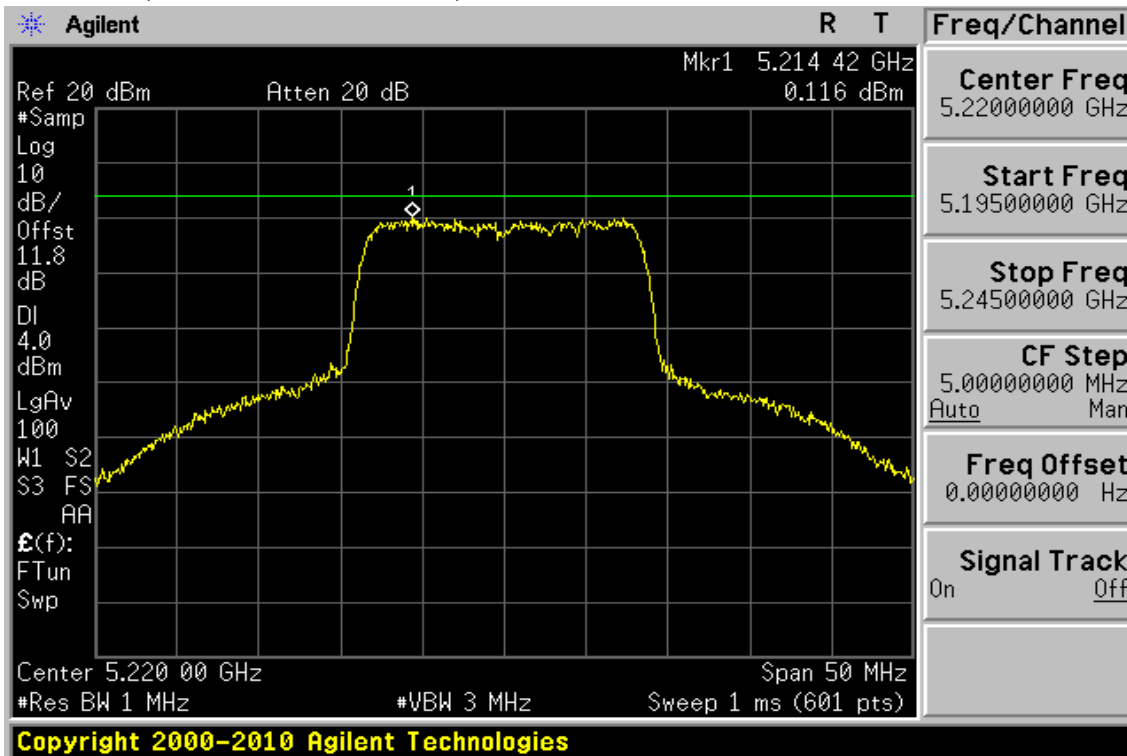


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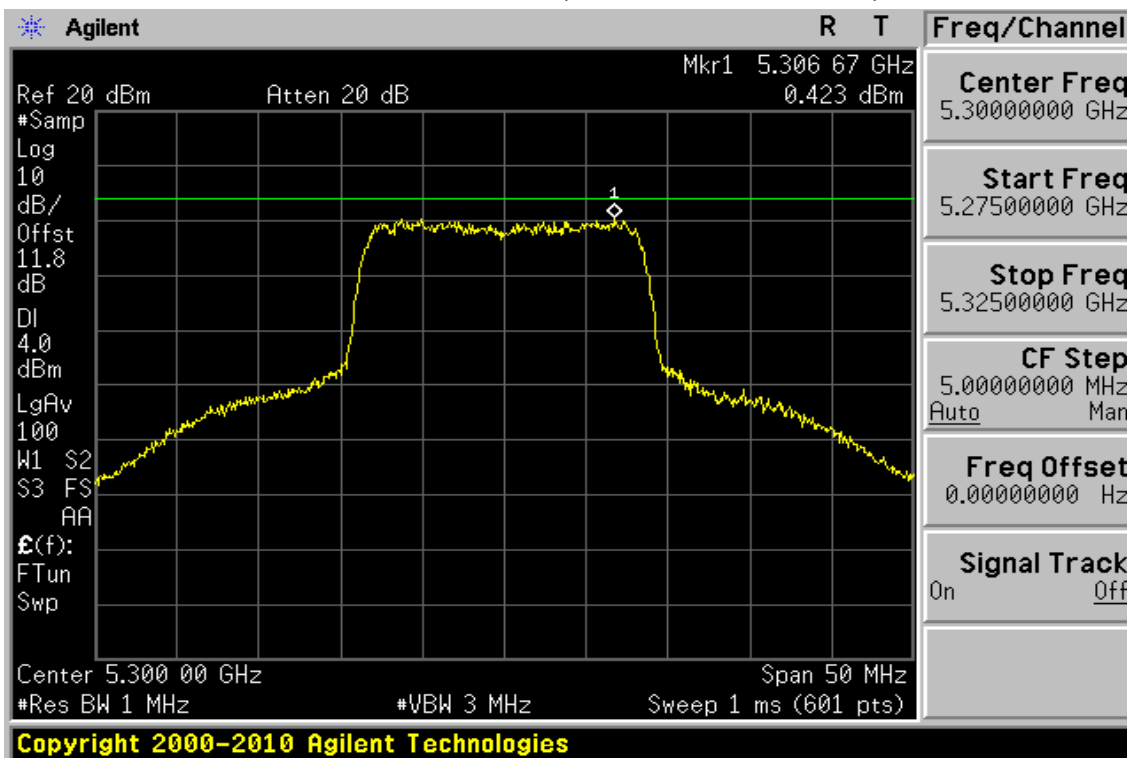
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**Modulation Type: QPSK, Coding Rate: 1/2**  
**PPSD Data Plot (CH Mid 5220 MHz)**



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

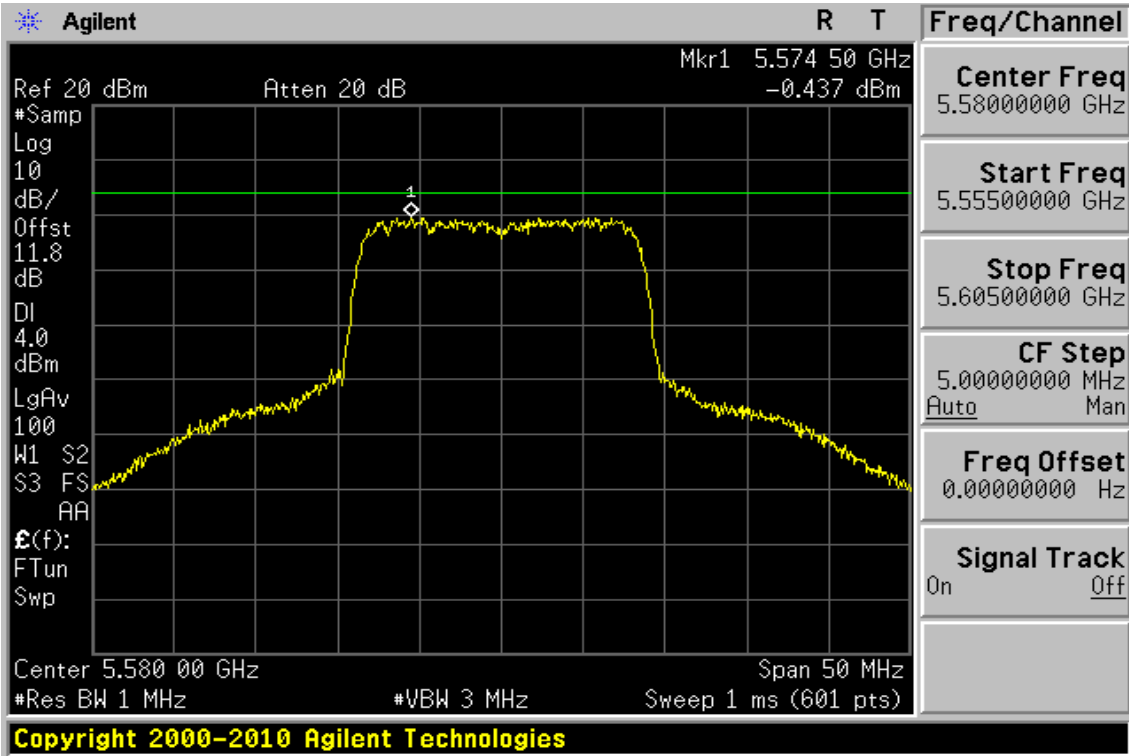


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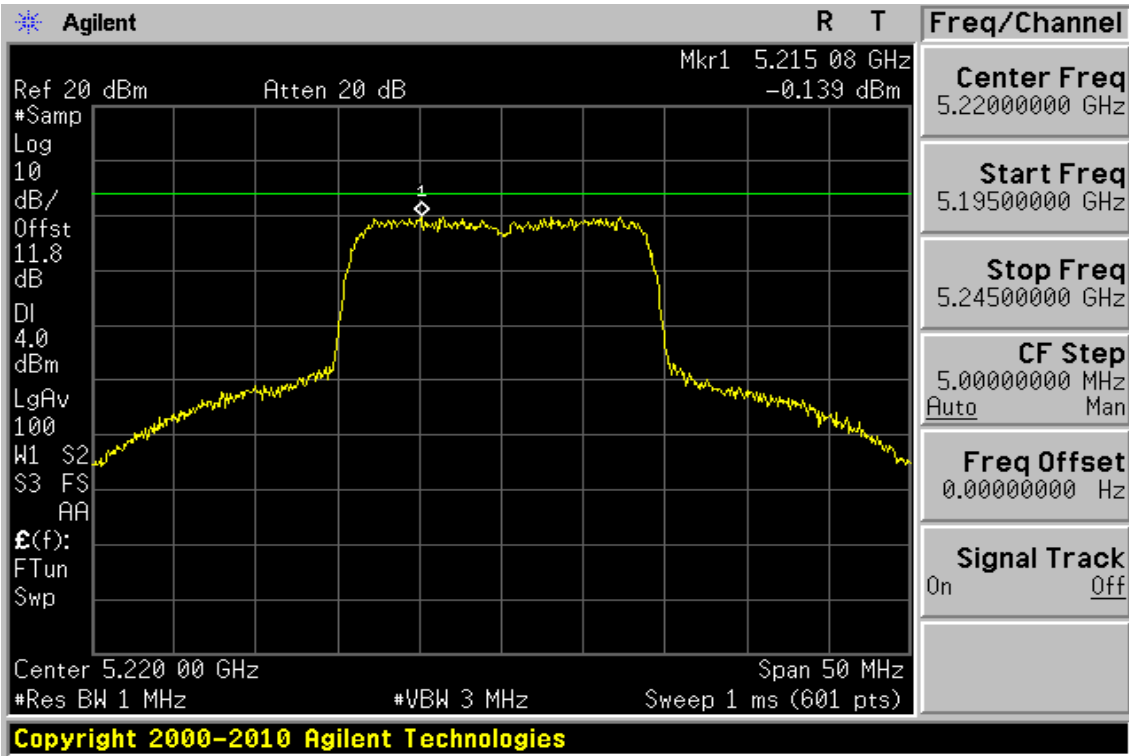
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**802.11a, 5470~5725 MHz, PPSD Data Plot (CH Mid 5580 MHz)**



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



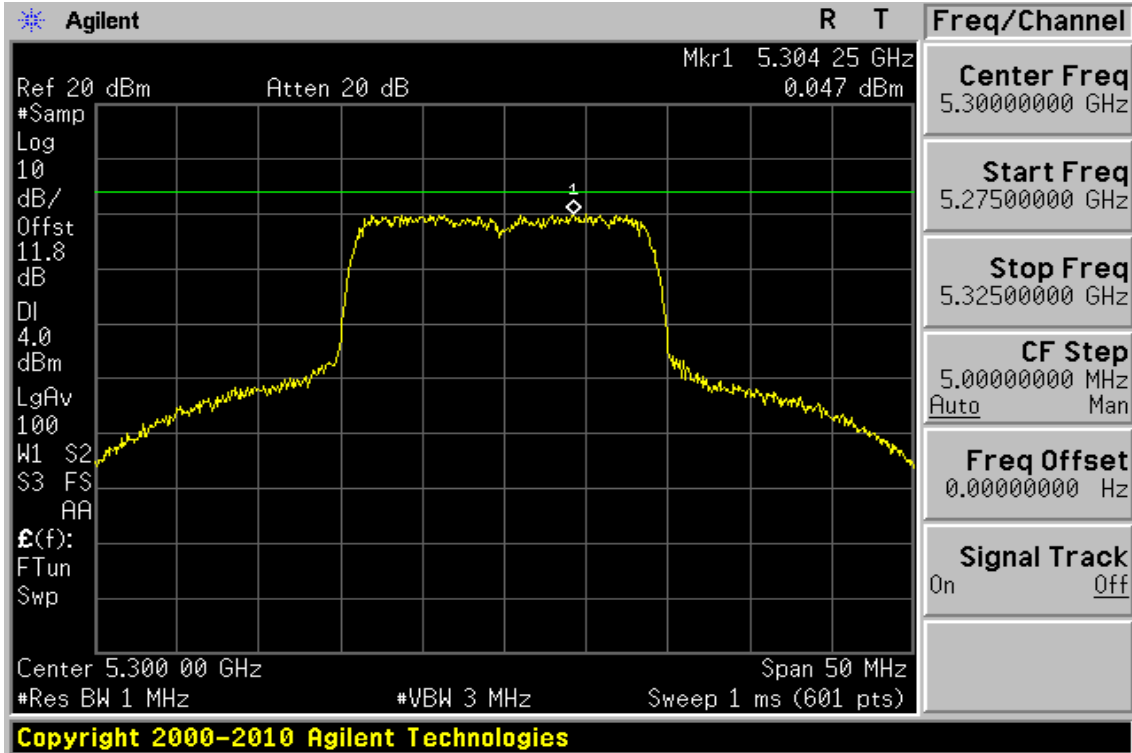
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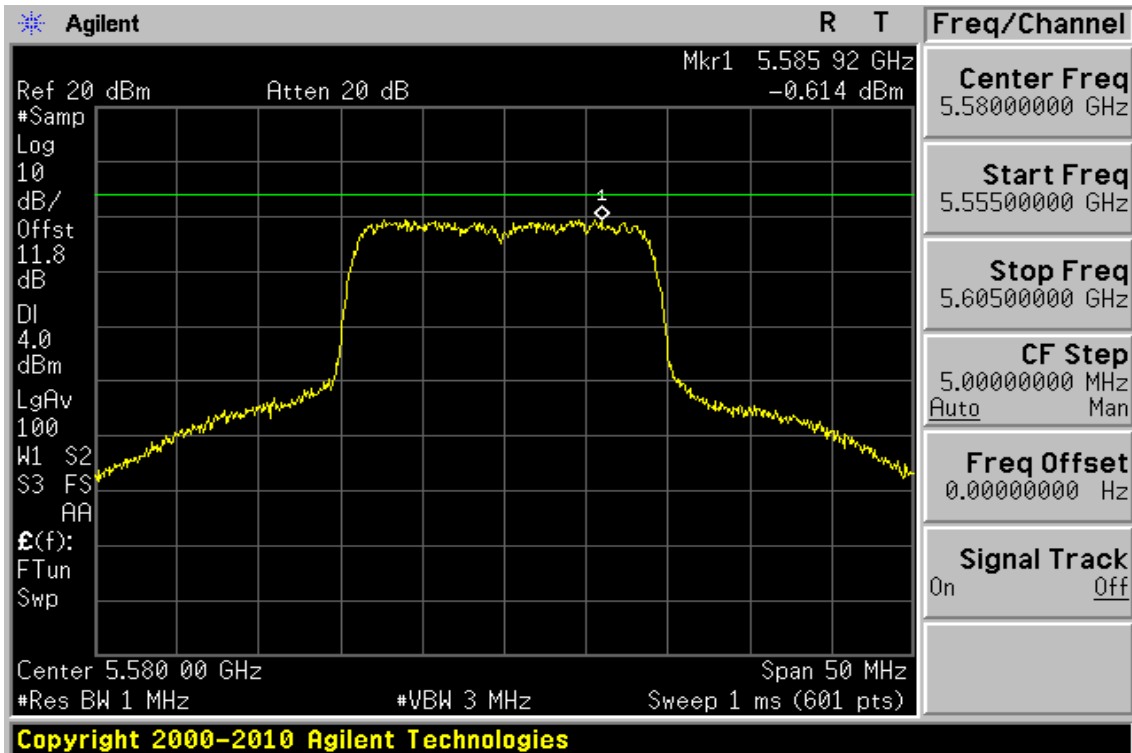
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**802.11n HT20, 5250~5350 MHz, PPSD Data Plot (CH Mid 5300 MHz)**



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

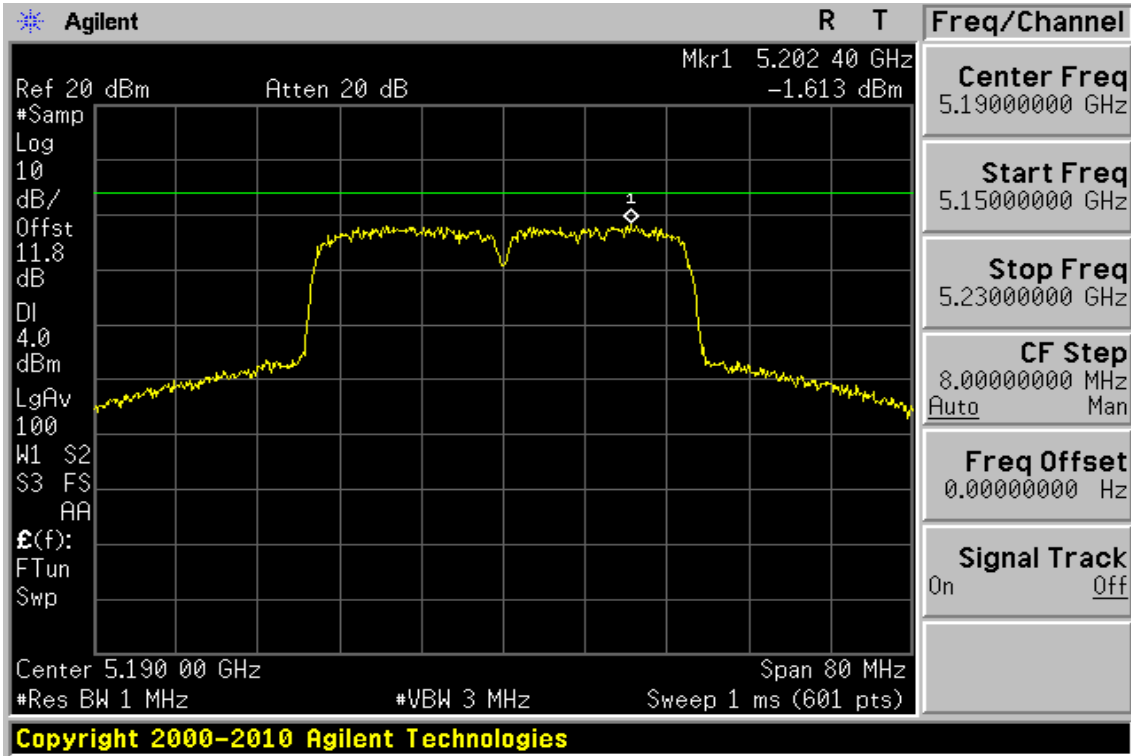


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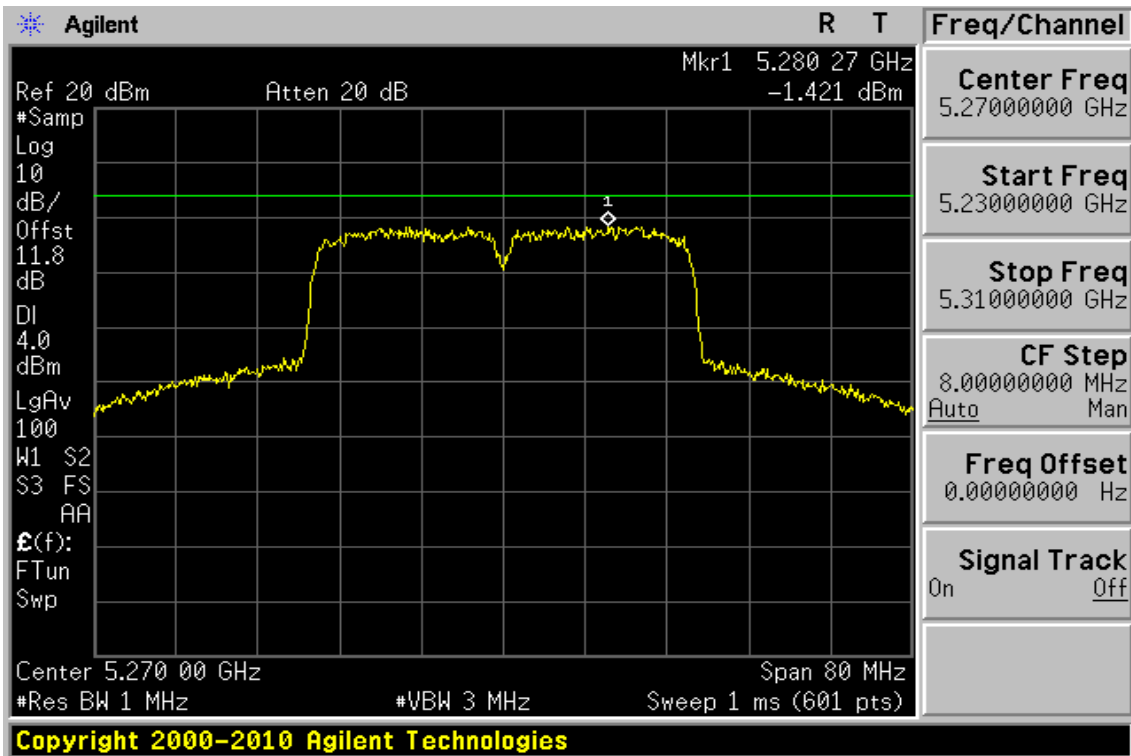
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**802.11n HT40, 5150~5250 MHz, PPSD Data Plot (CH Low 5190 MHz)**



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

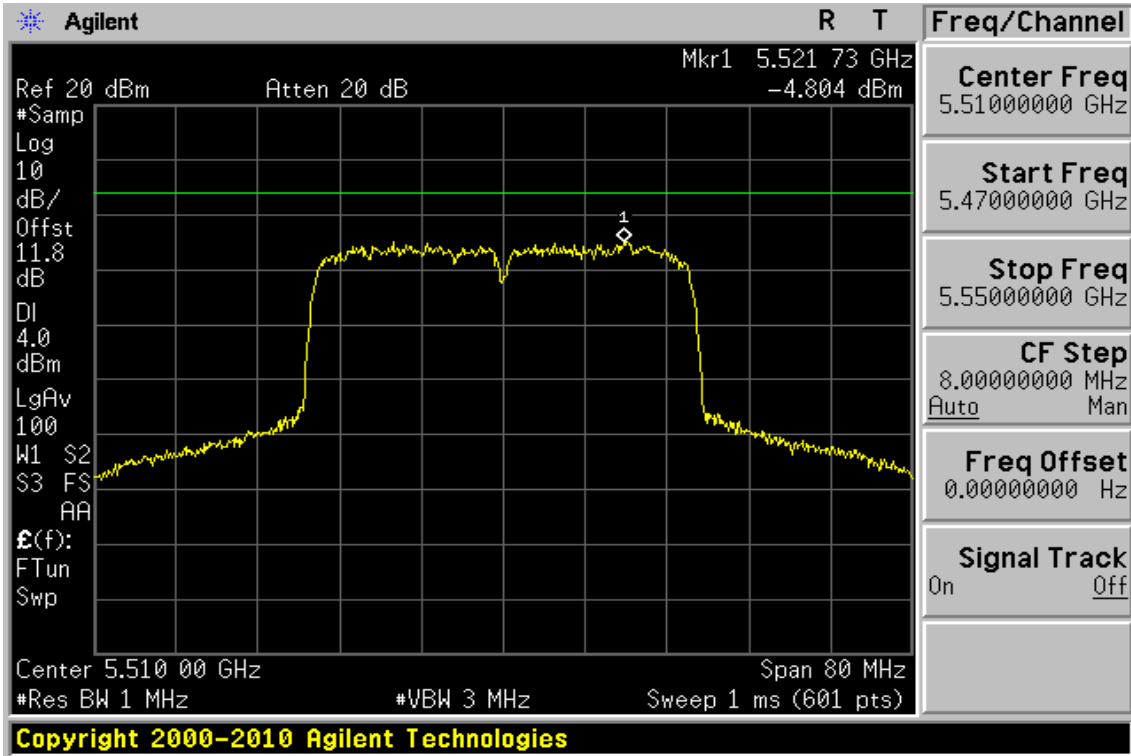


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802.11n HT40, 5470~5725 MHz, PPSD Data Plot (CH Low 5510 MHz)

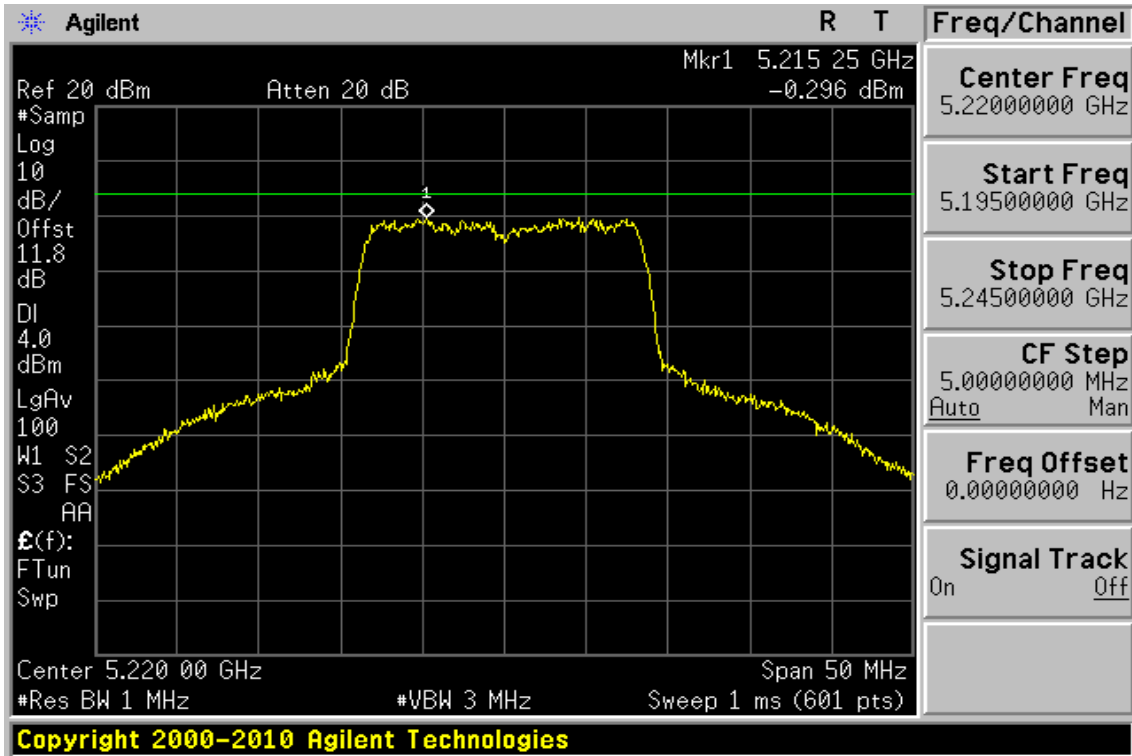


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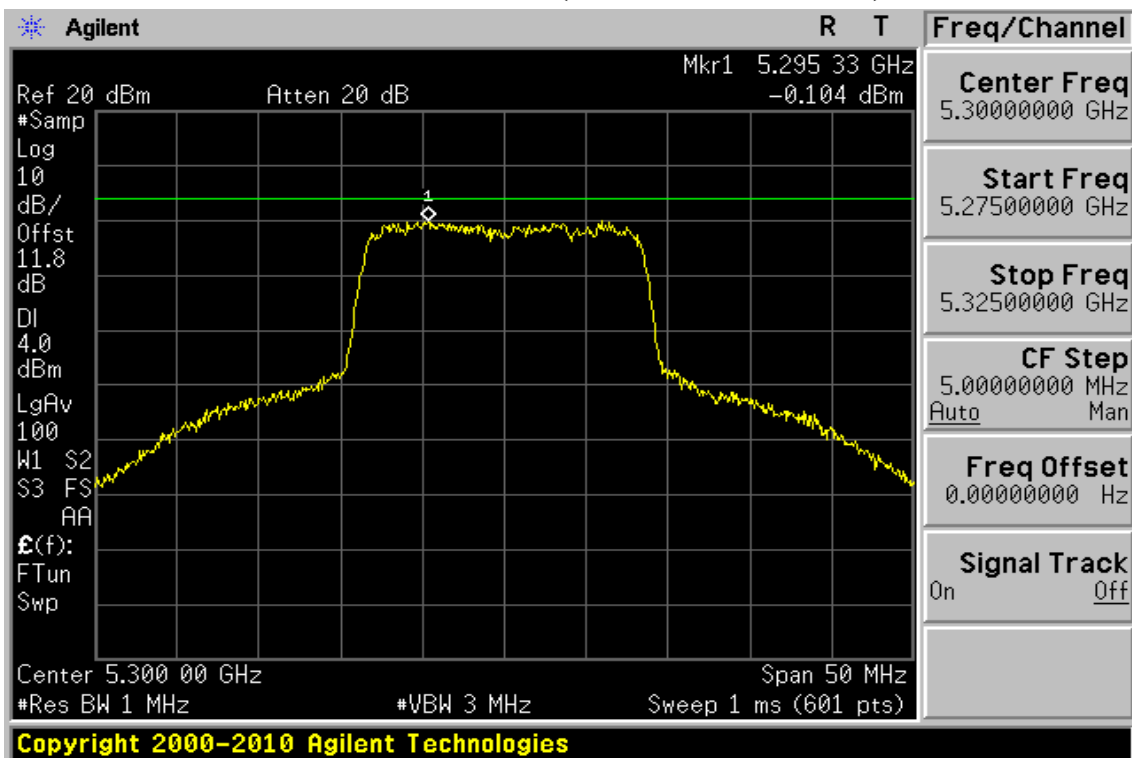
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**Modulation Type: 16-QAM, Coding Rate: 1/2**  
**PPSD Data Plot (CH Mid 5220 MHz)**



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

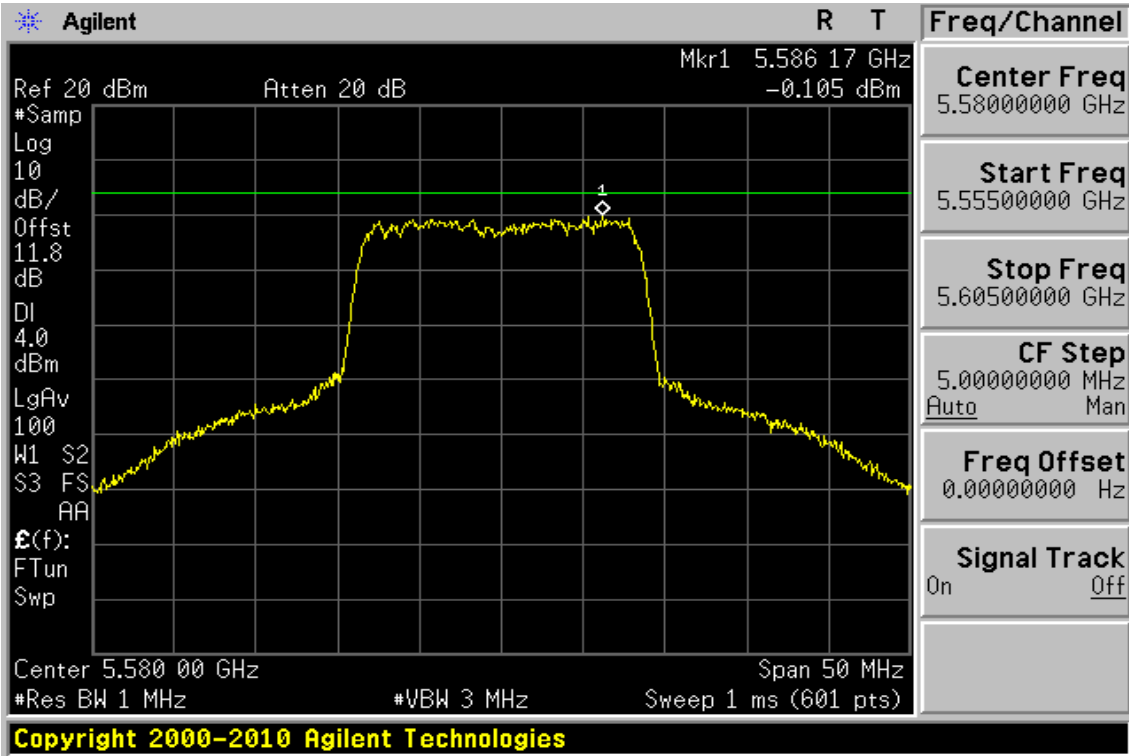


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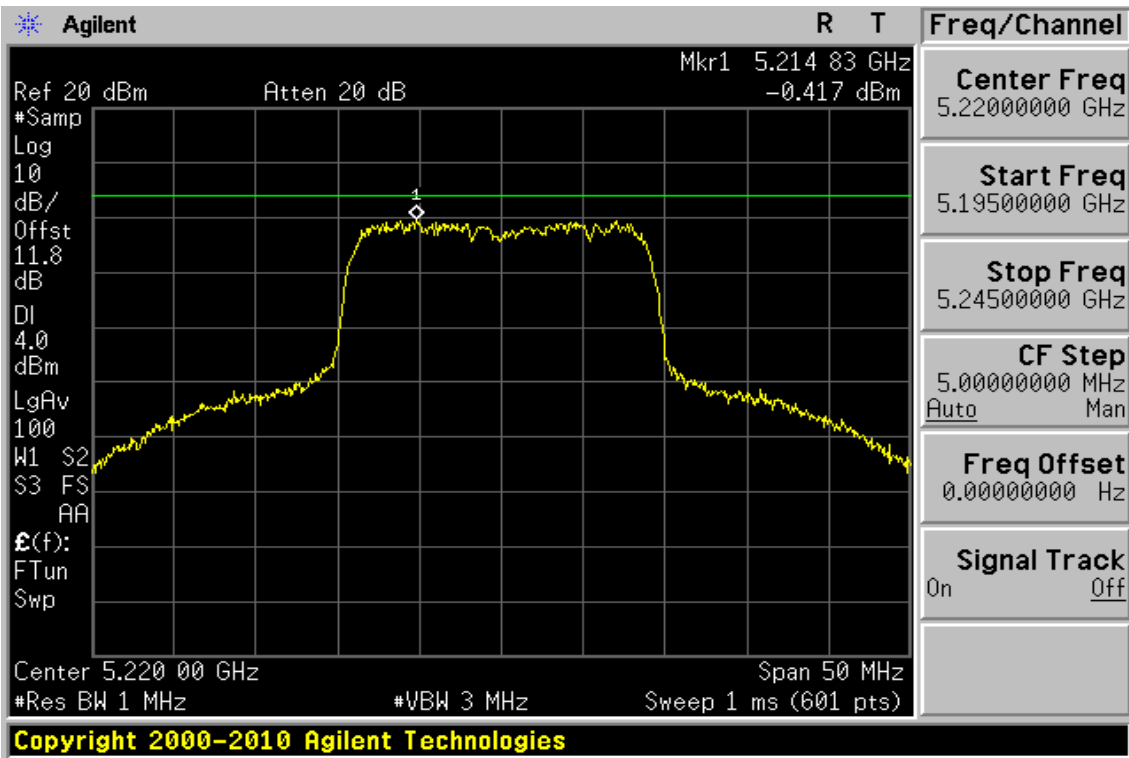
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**802.11a, 5470~5725 MHz, PPSD Data Plot (CH Mid 5580 MHz)**



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

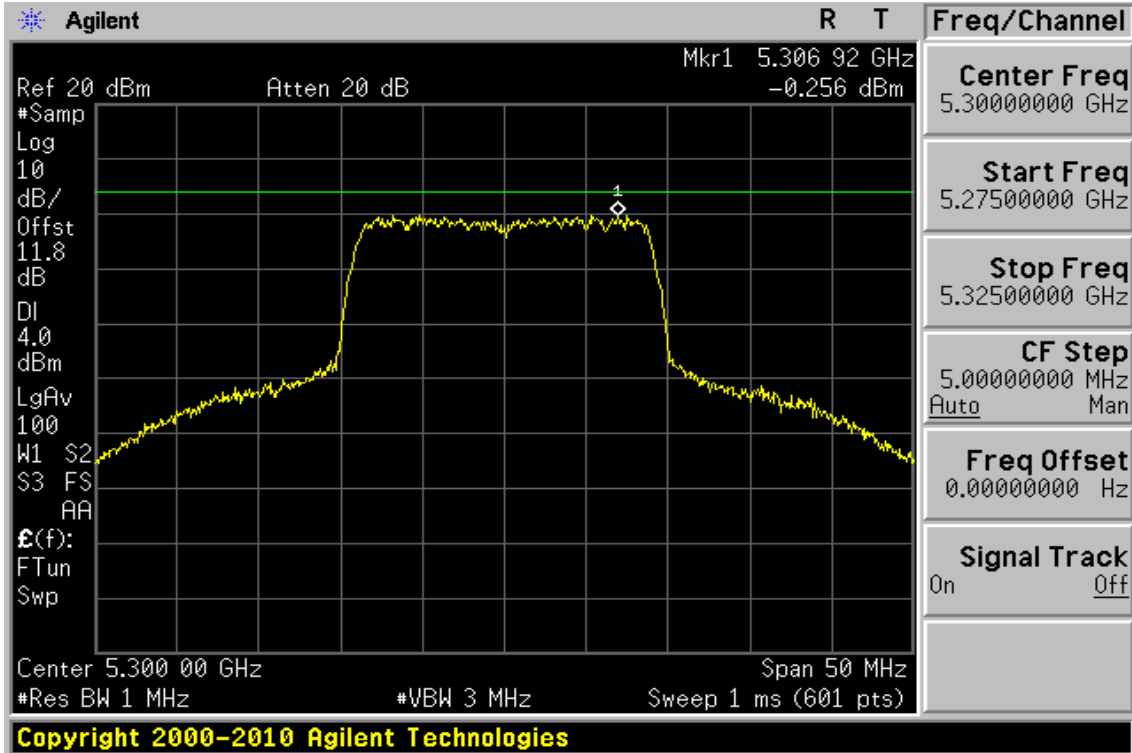


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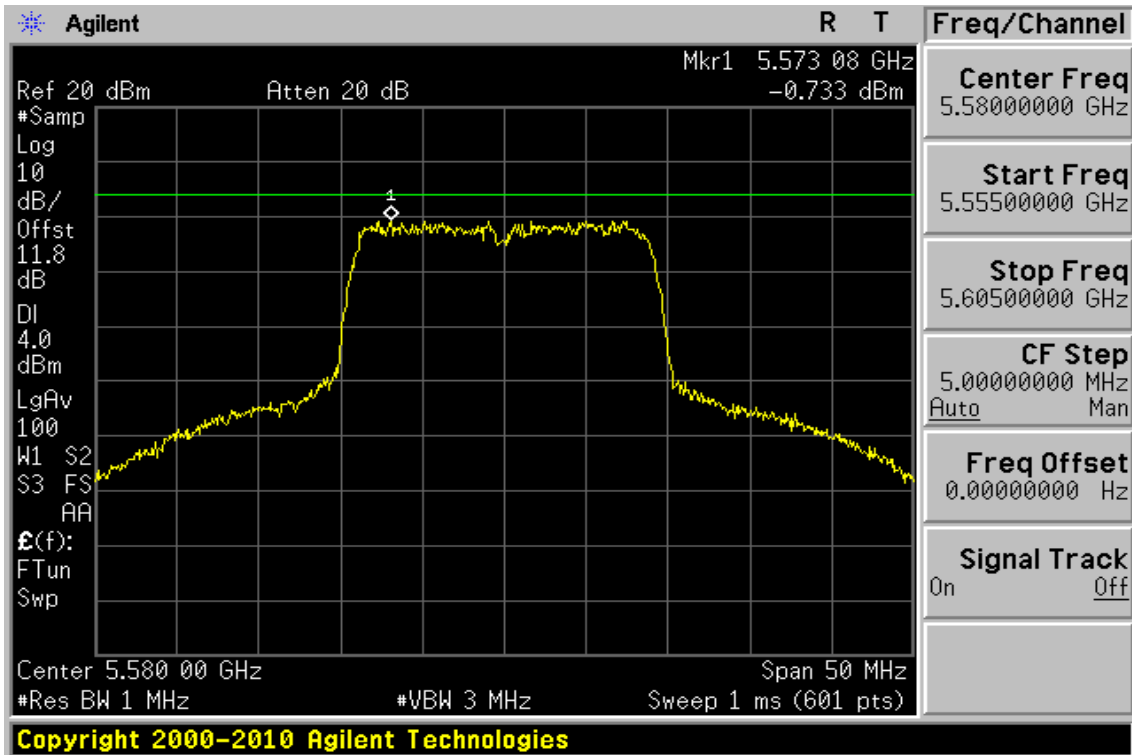
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**802.11n HT20, 5250~5350 MHz, PPSD Data Plot (CH Mid 5300 MHz)**



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

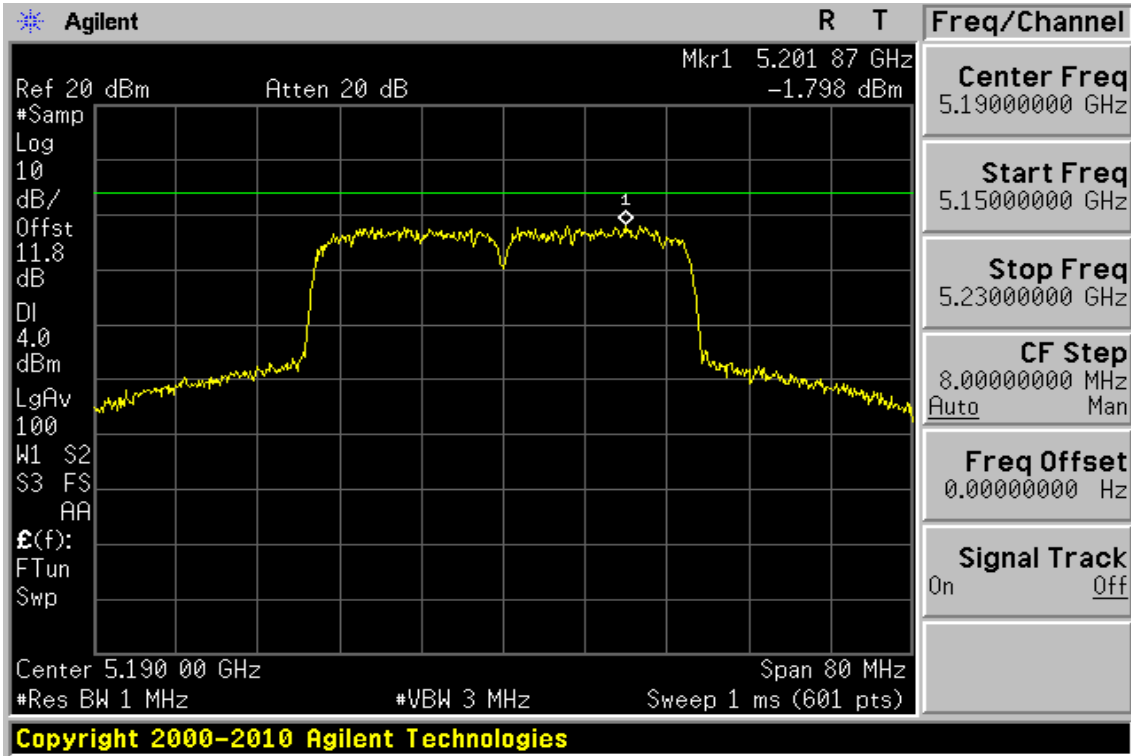


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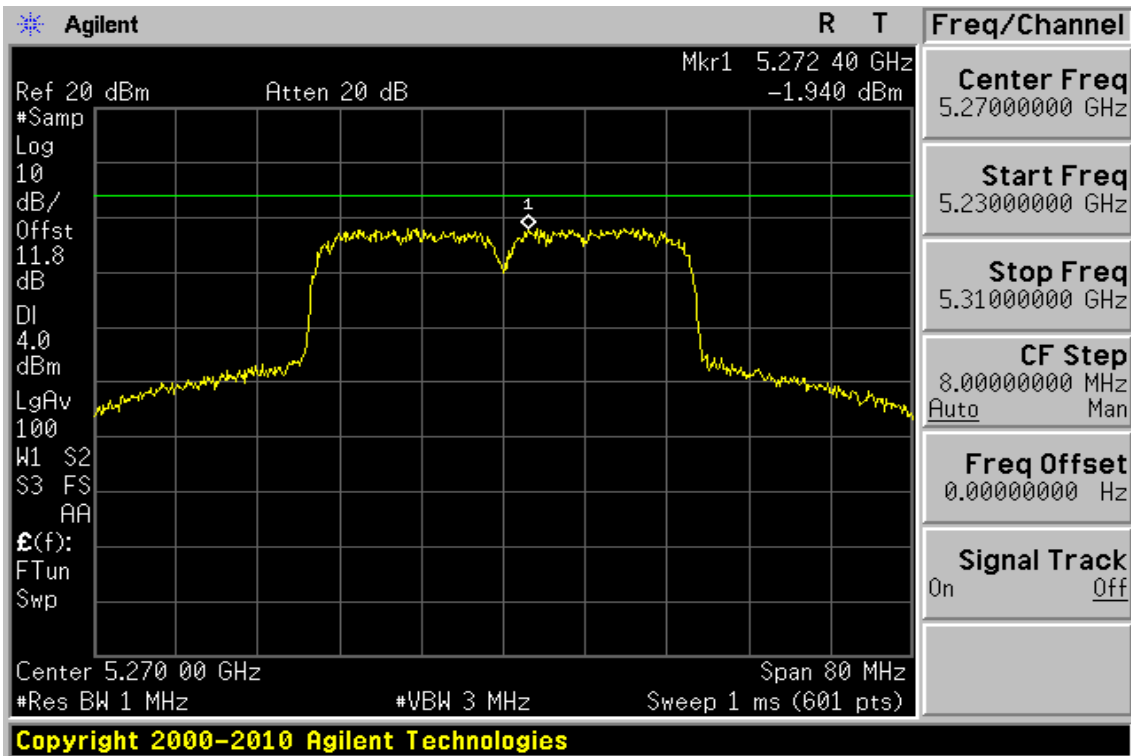
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**802.11n HT40, 5150~5250 MHz, PPSD Data Plot (CH Low 5190 MHz)**



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

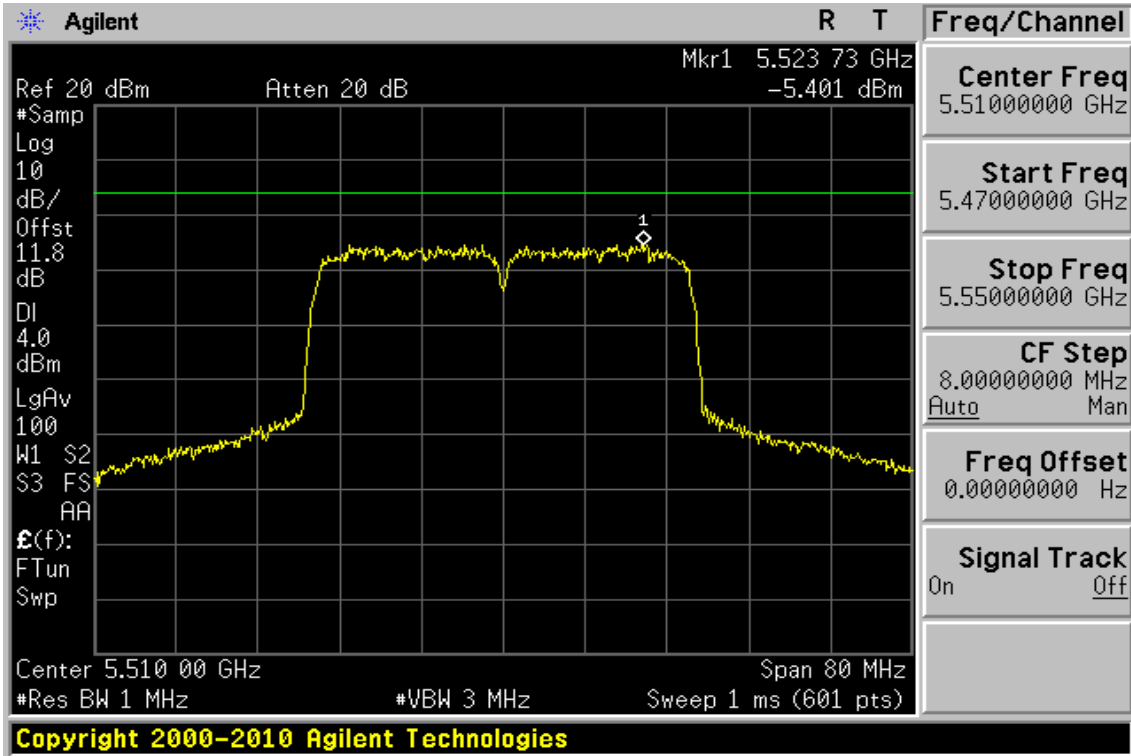


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802.11n HT40, 5470~5725 MHz, PPSD Data Plot (CH Low 5510 MHz)



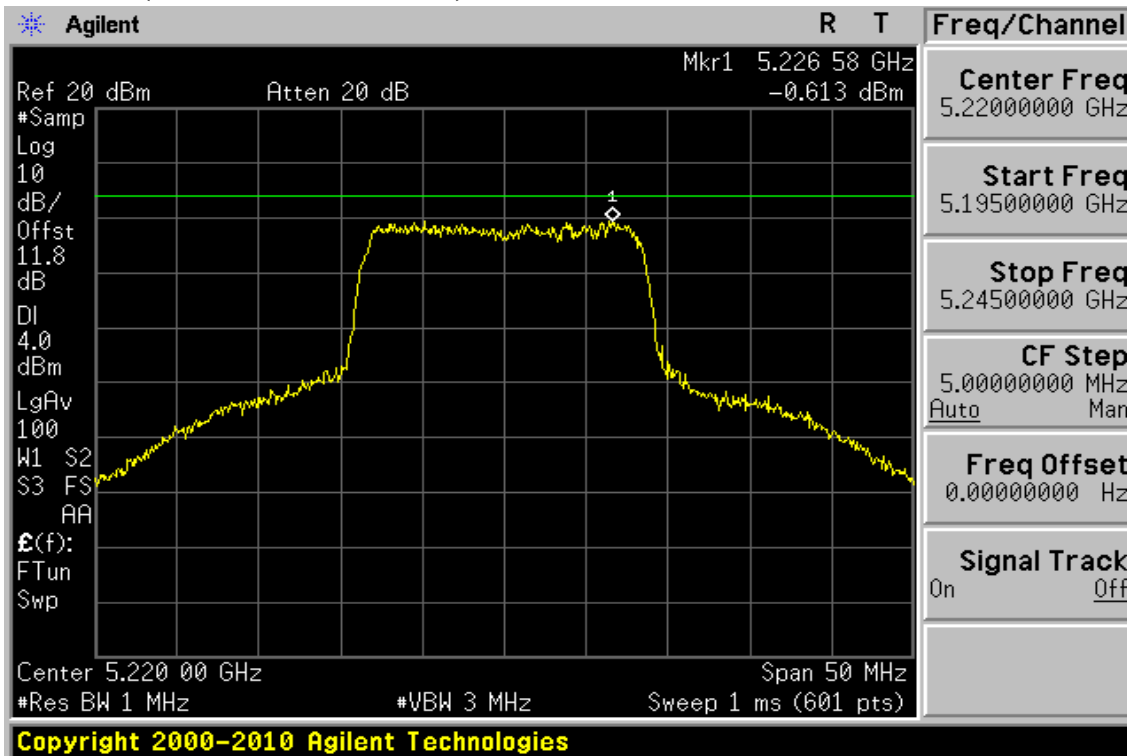
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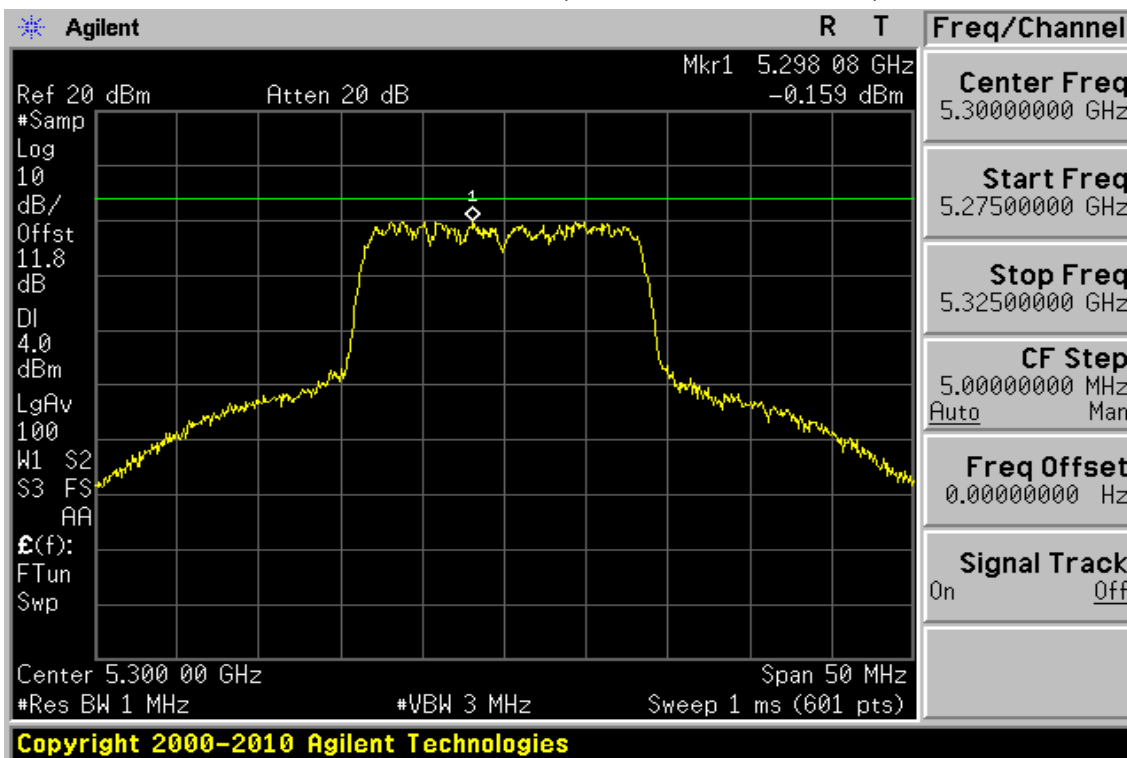
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**Modulation Type: 64-QAM, Coding Rate: 2/3**  
**PPSD Data Plot (CH Mid 5220 MHz)**



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

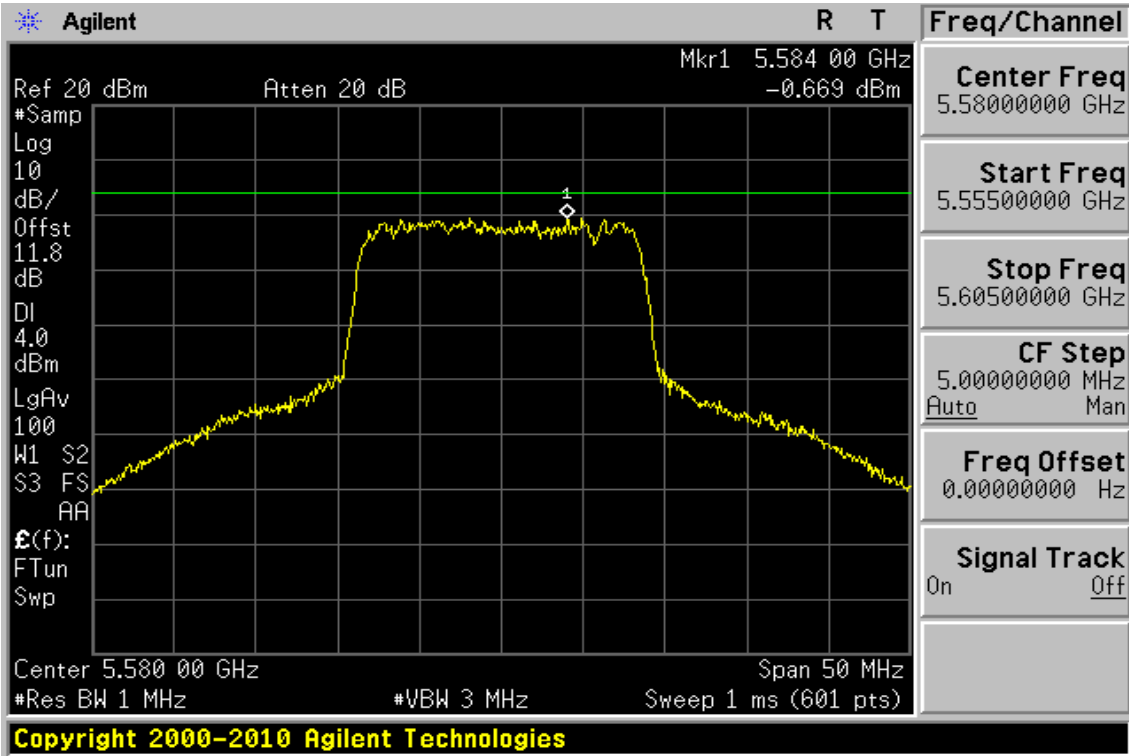


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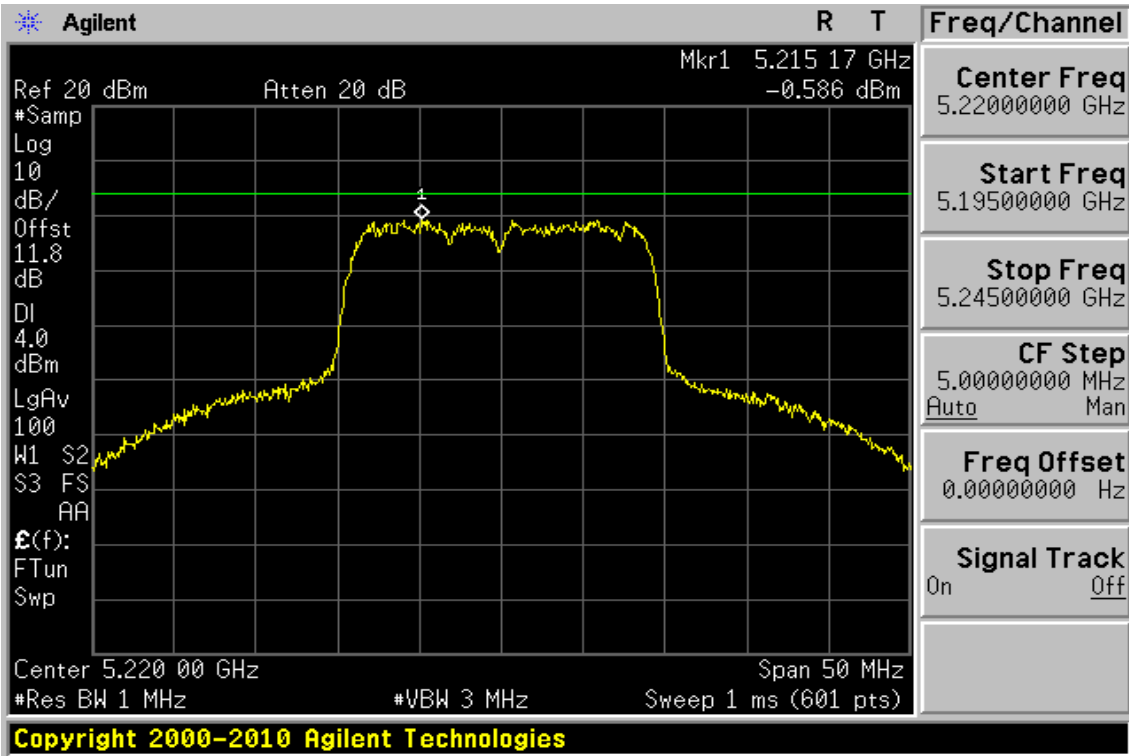
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**802.11a, 5470~5725 MHz, PPSD Data Plot (CH Mid 5580 MHz)**



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

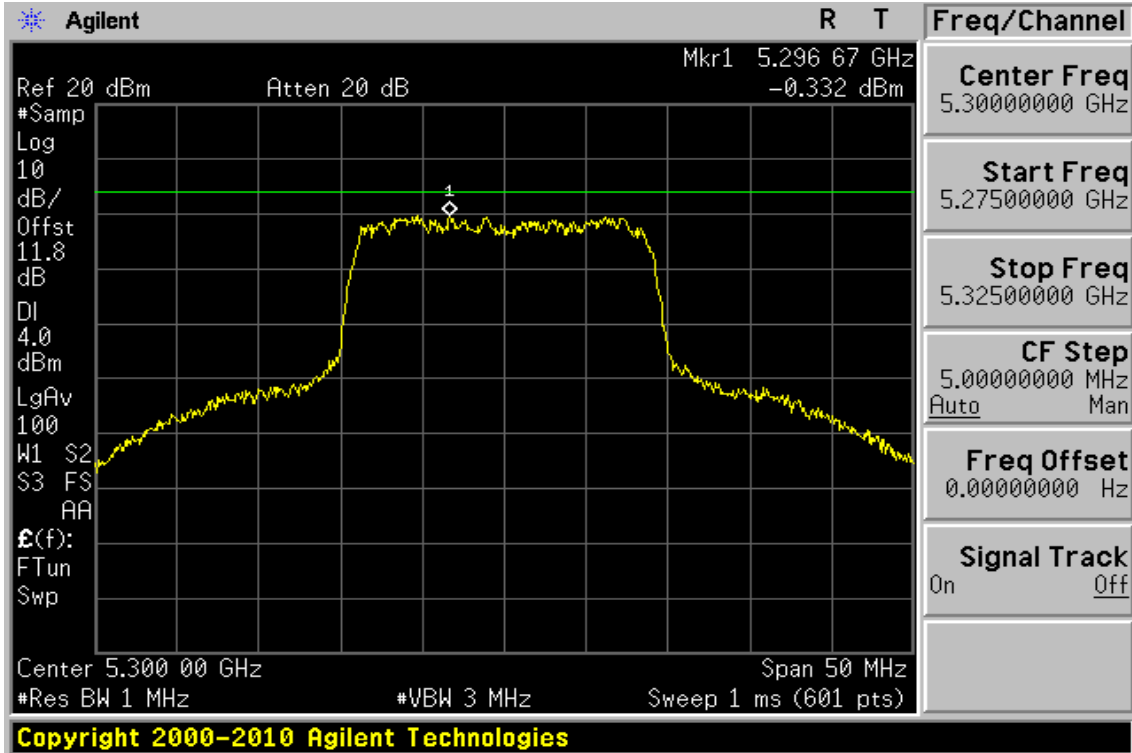


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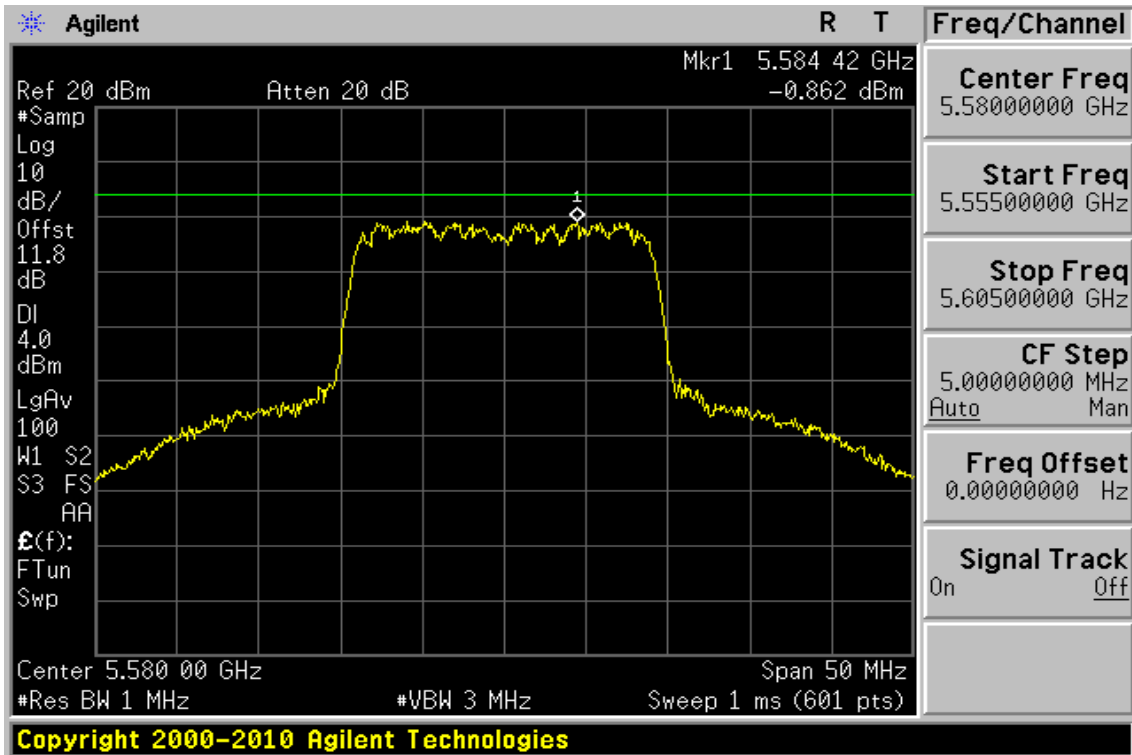
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**802.11n HT20, 5250~5350 MHz, PPSD Data Plot (CH Mid 5300 MHz)**



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

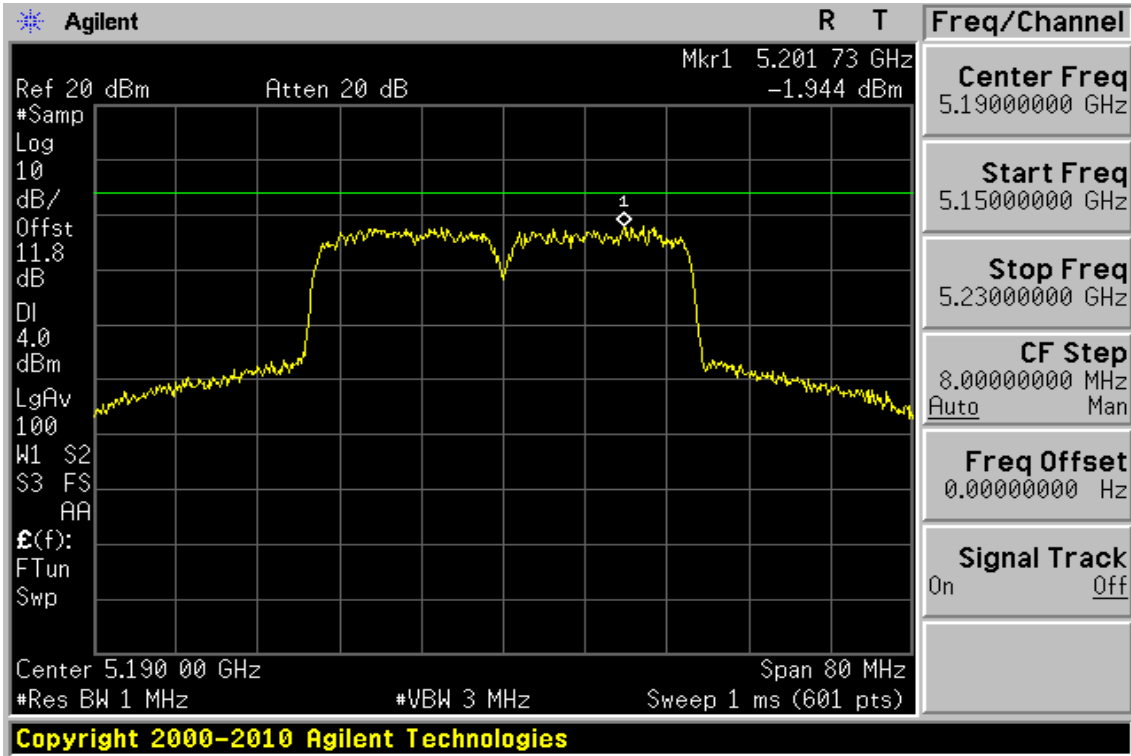


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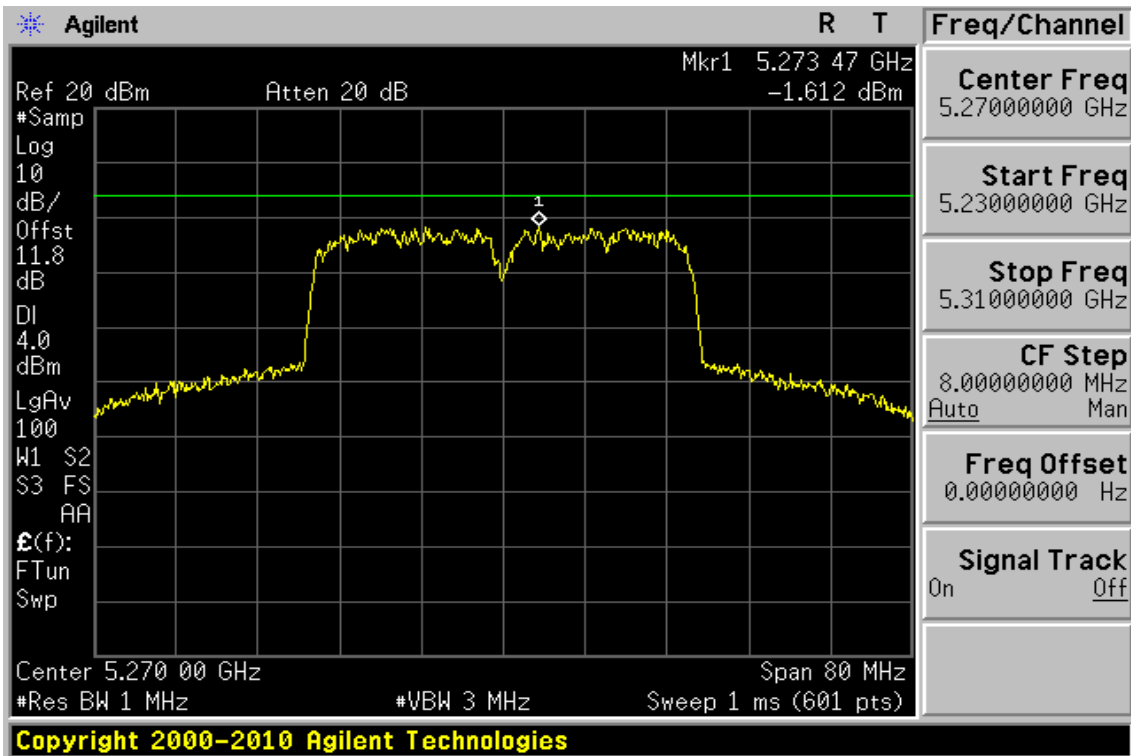
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**802.11n HT40, 5150~5250 MHz, PPSD Data Plot (CH Low 5190 MHz)**



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

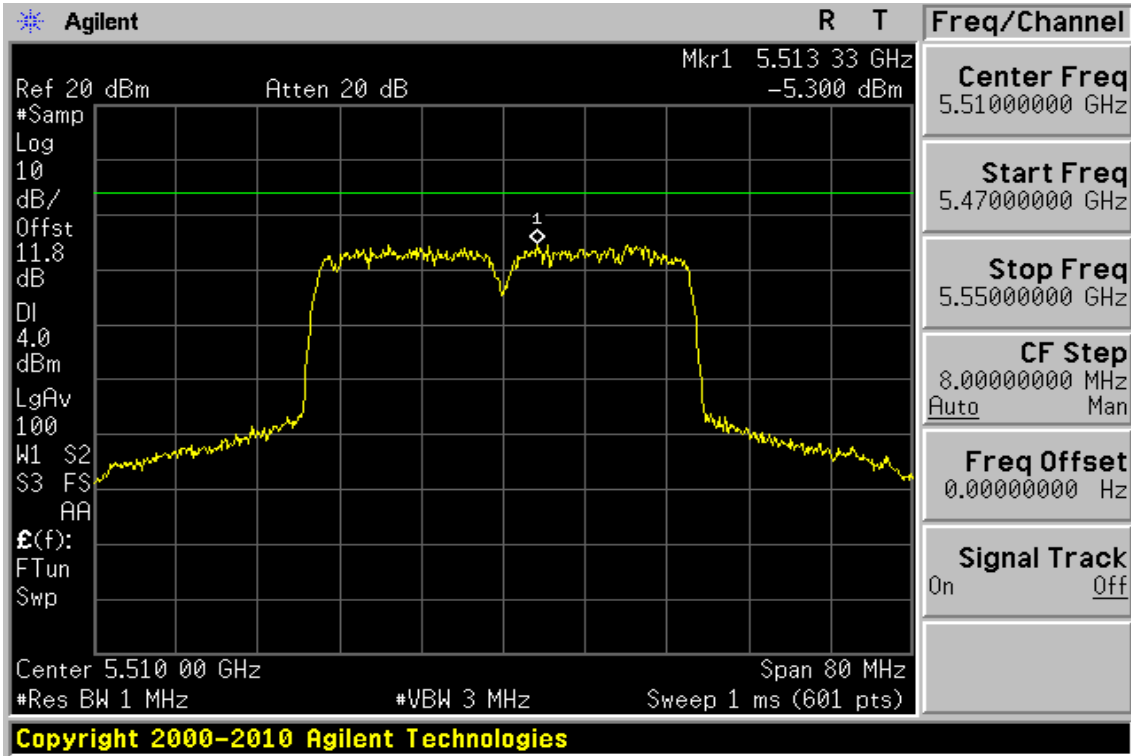


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802.11n HT40, 5470~5725 MHz, PPSD Data Plot (CH Low 5510 MHz)



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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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## 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:

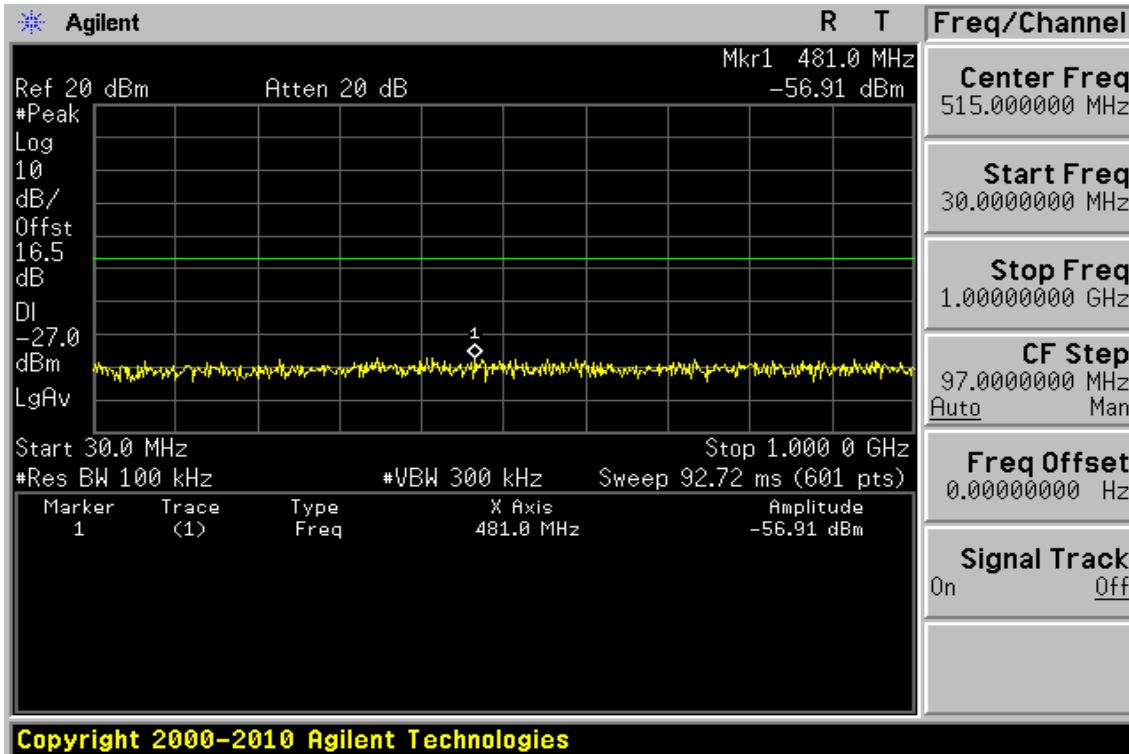
Refer to next page for plots.

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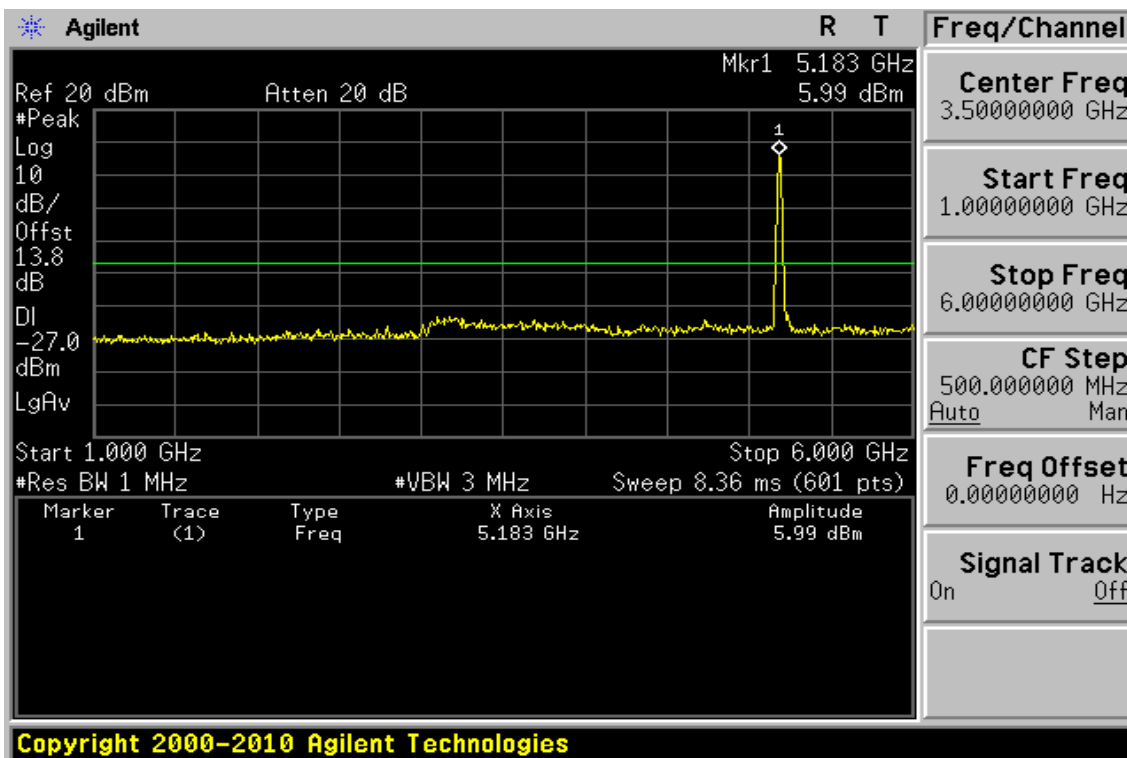
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**802.11a, 5150~5250 MHz**  
**Ch Low 30MHz – 1GHz (5180 MHz)**



**Ch Low 1GHz – 6GHz**



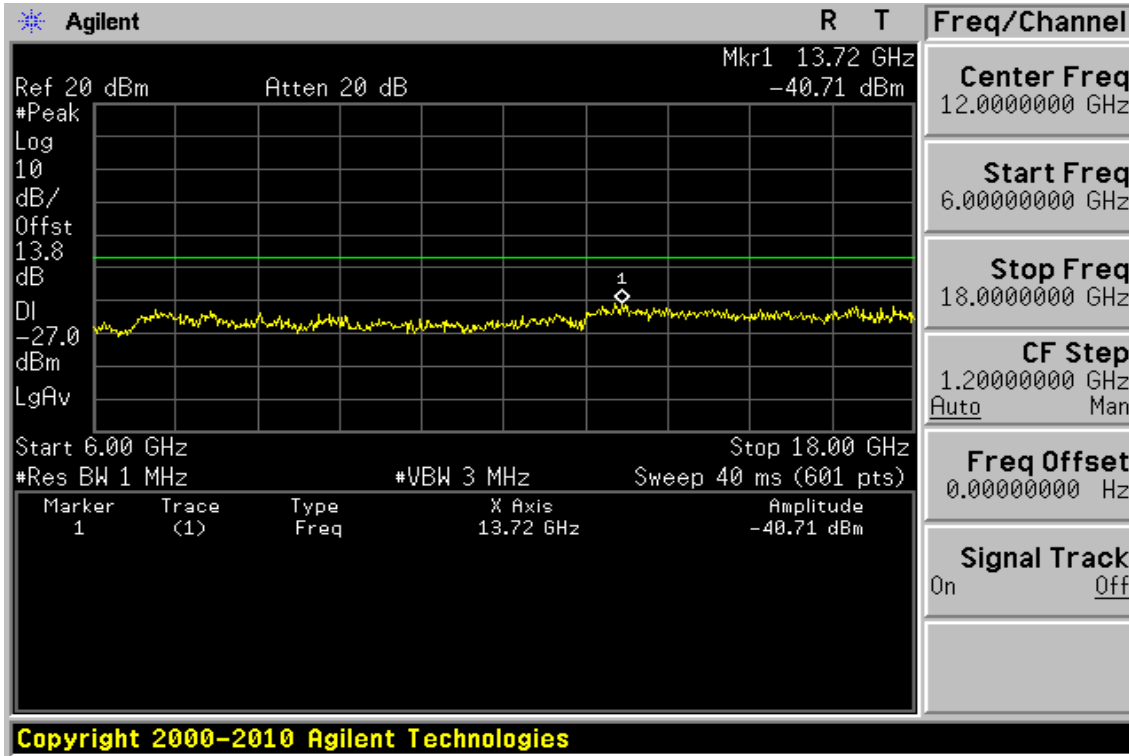
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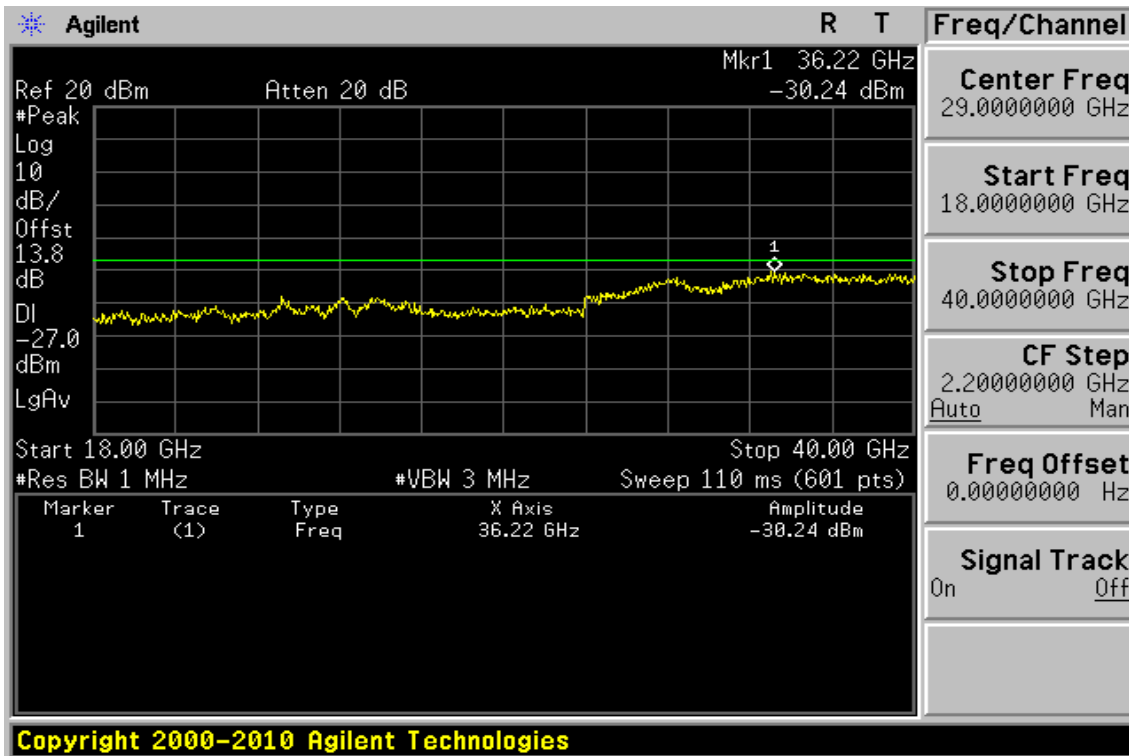
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Ch Low 6GHz – 18GHz



Ch Low 18GHz – 40GHz

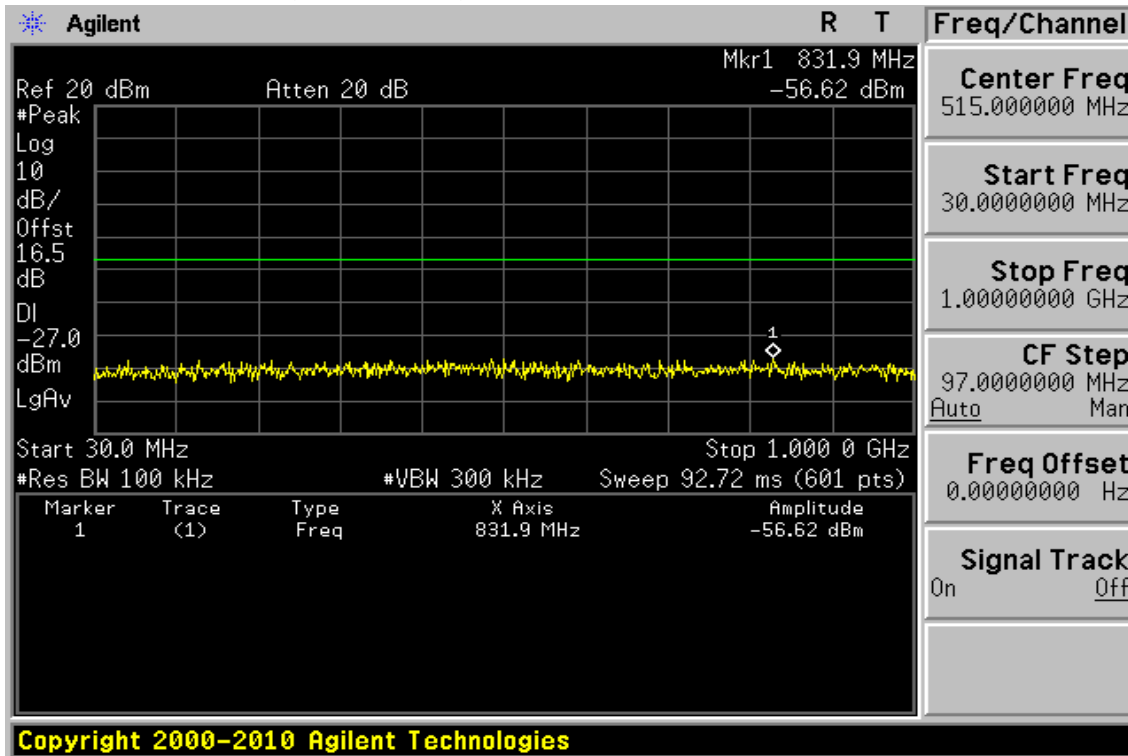


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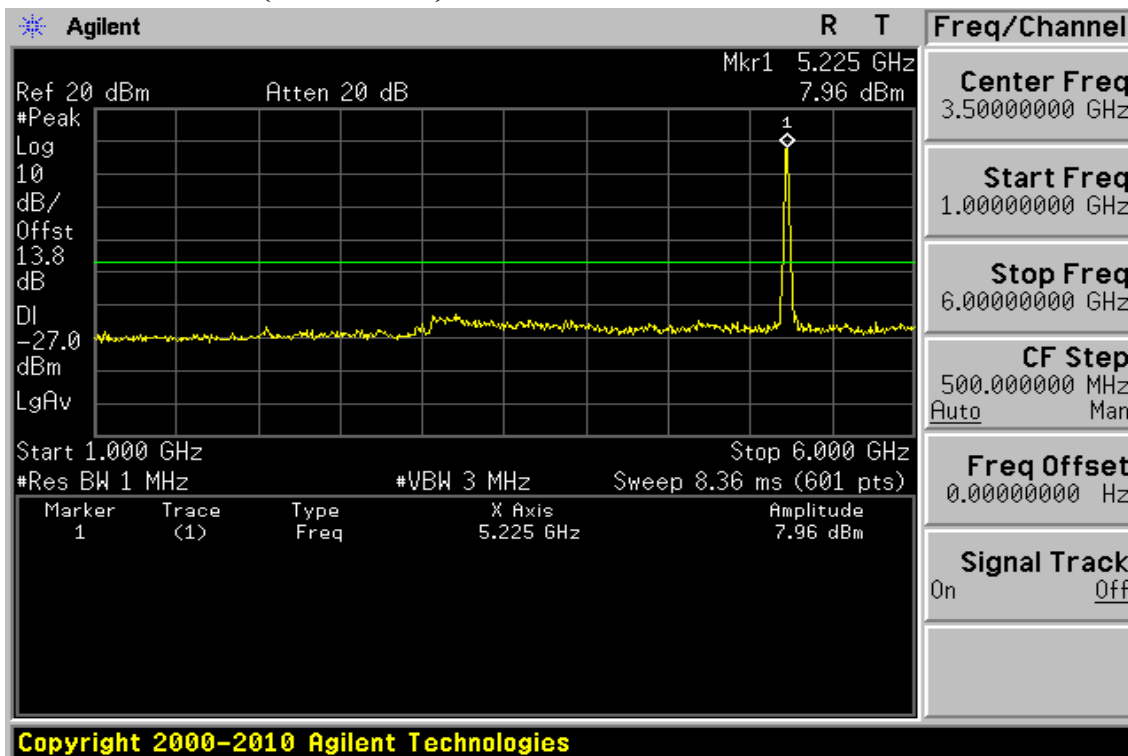
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**Ch Mid 30MHz – 1GHz (5220 MHz)**



**Ch Mid 1GHz – 6GHz (5220 MHz)**

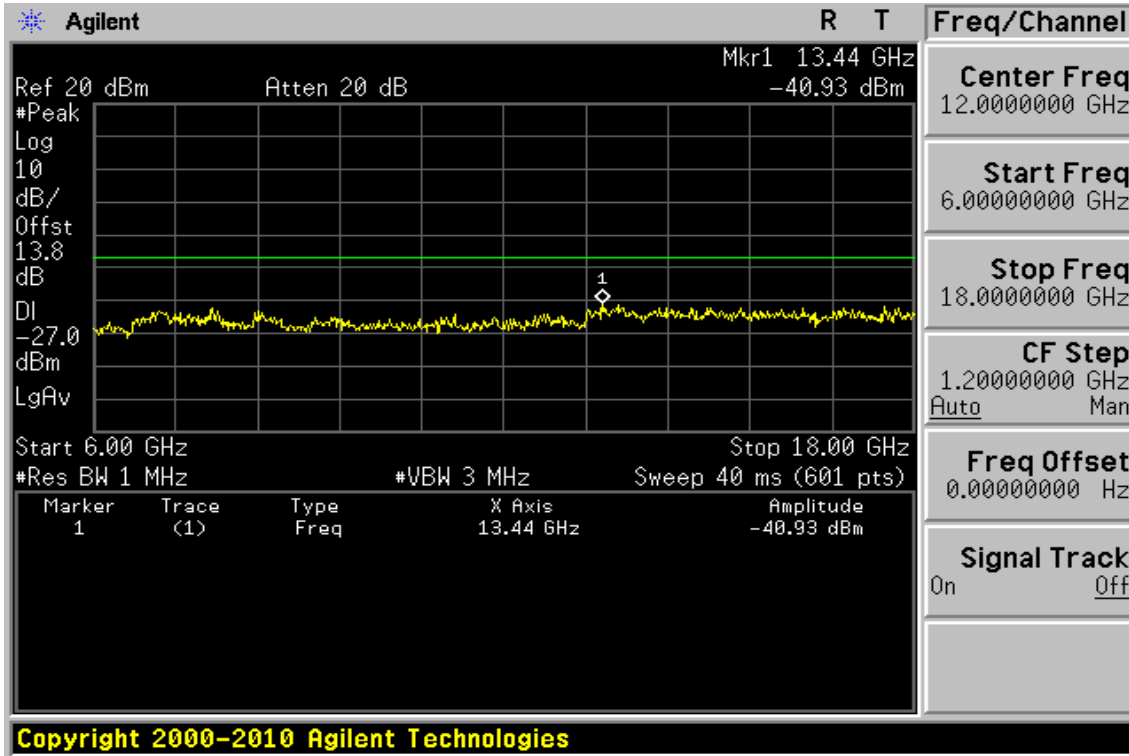


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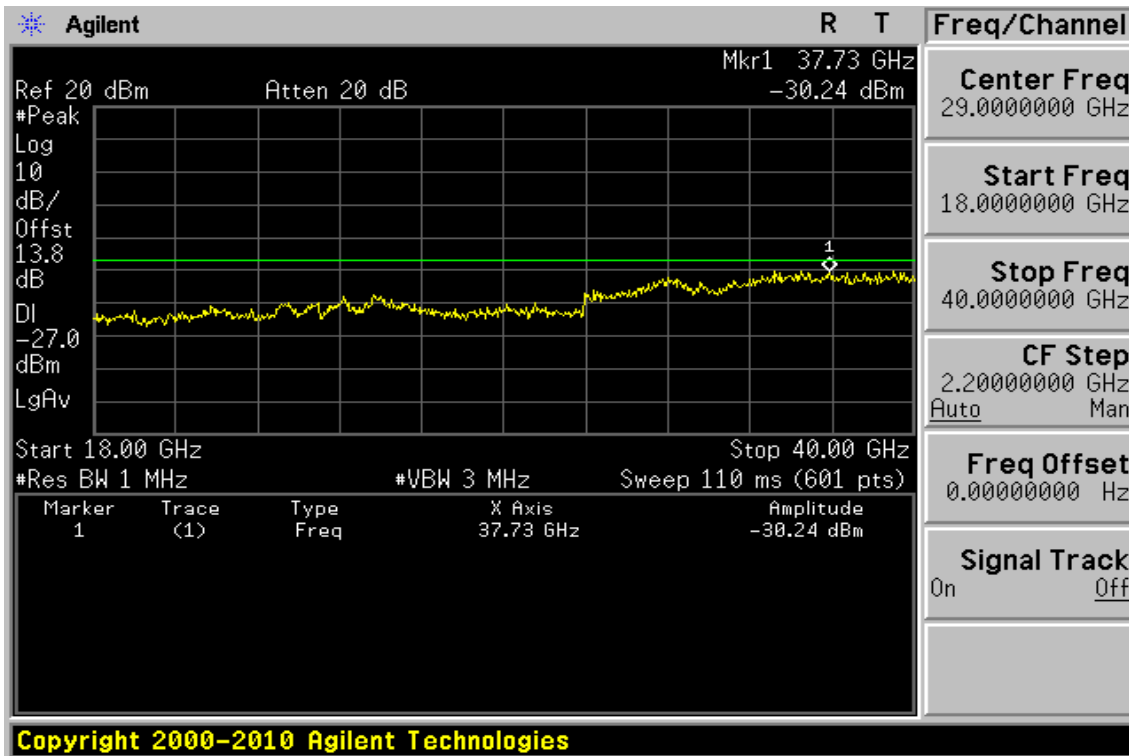
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Ch Mid 6GHz – 18GHz



Ch Mid 18GHz – 40GHz

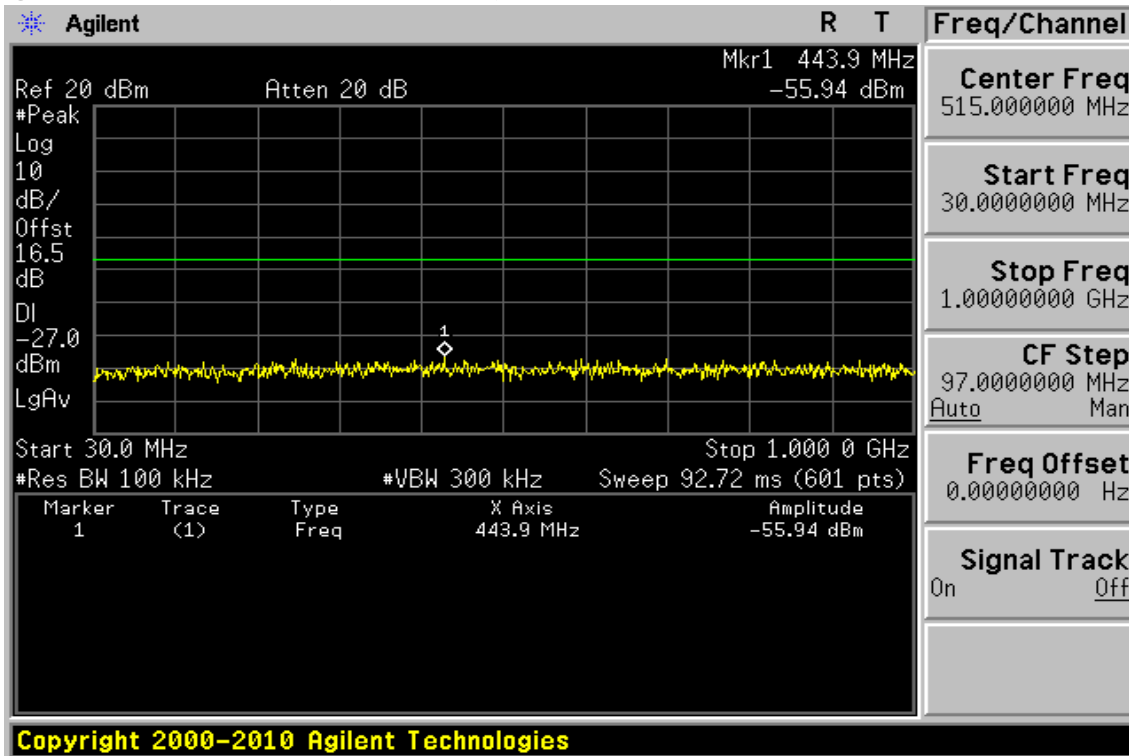


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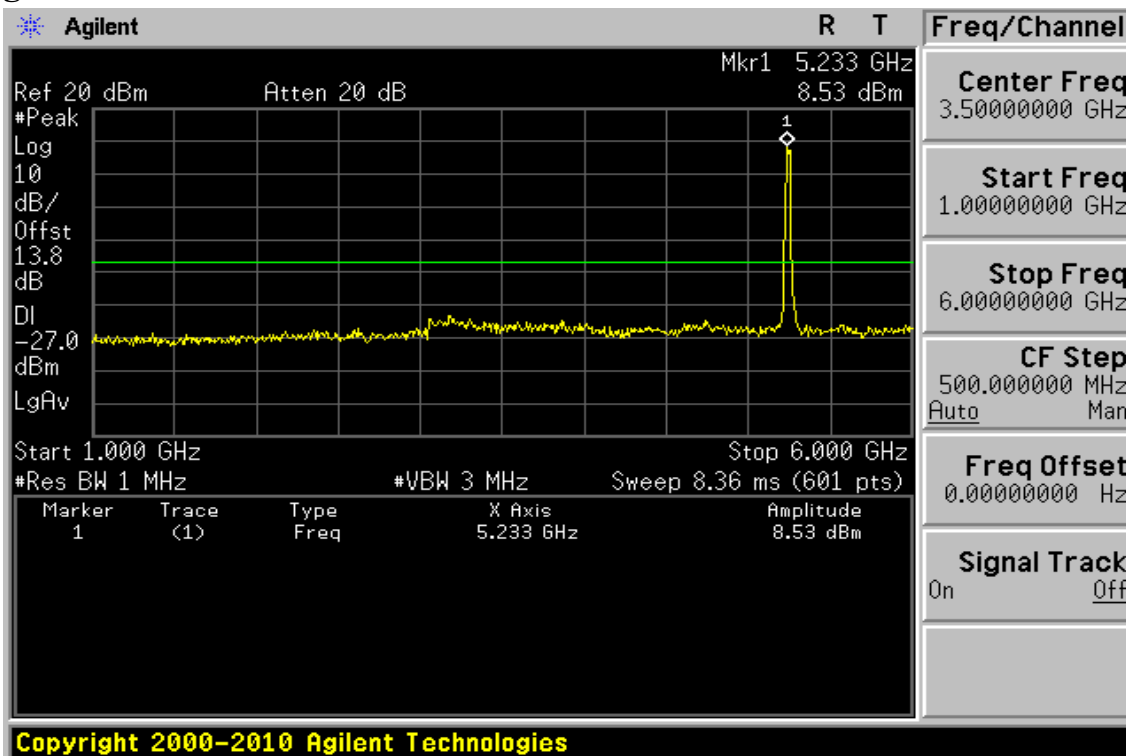
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**Ch High 30MHz – 1GHz (5240 MHz)**



**Ch High 1GHz – 6GHz**

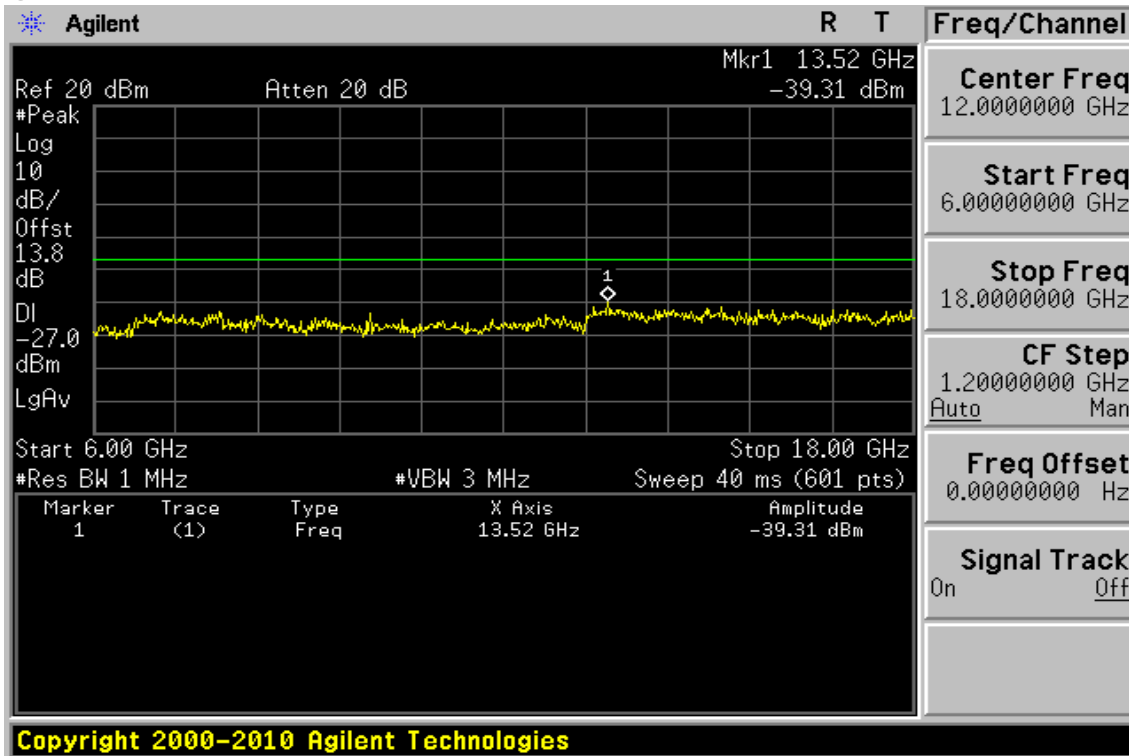


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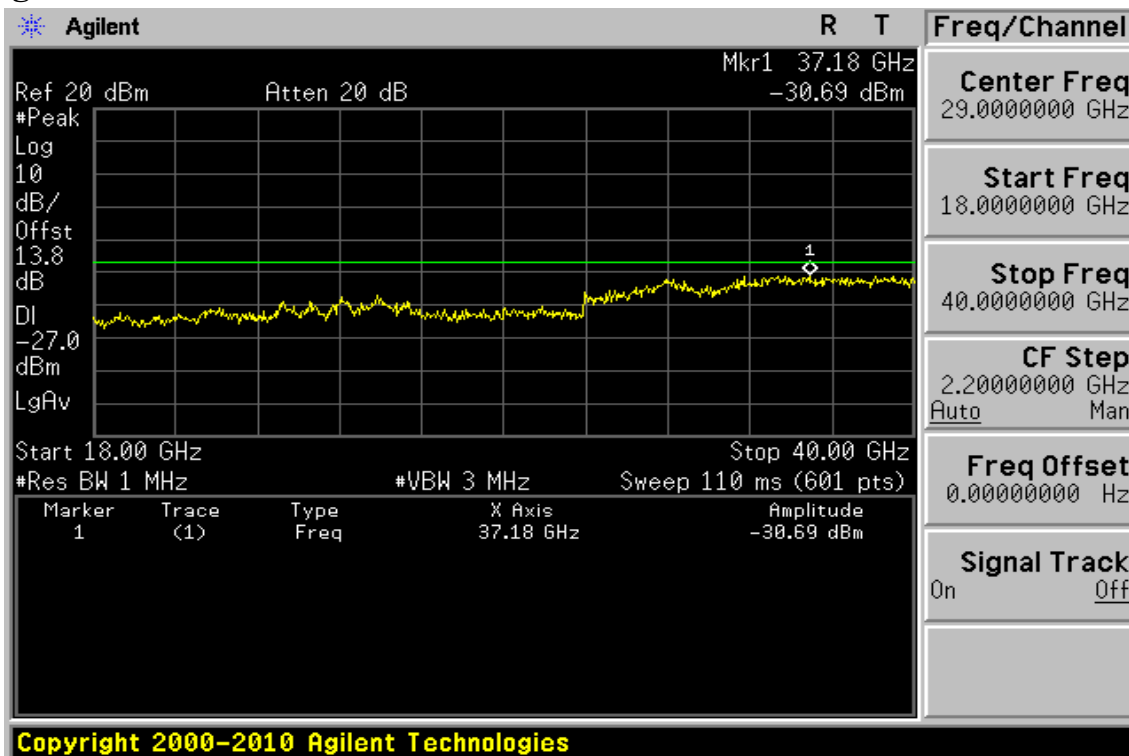
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### Ch High 6GHz – 18GHz



### Ch High 18GHz – 40GHz

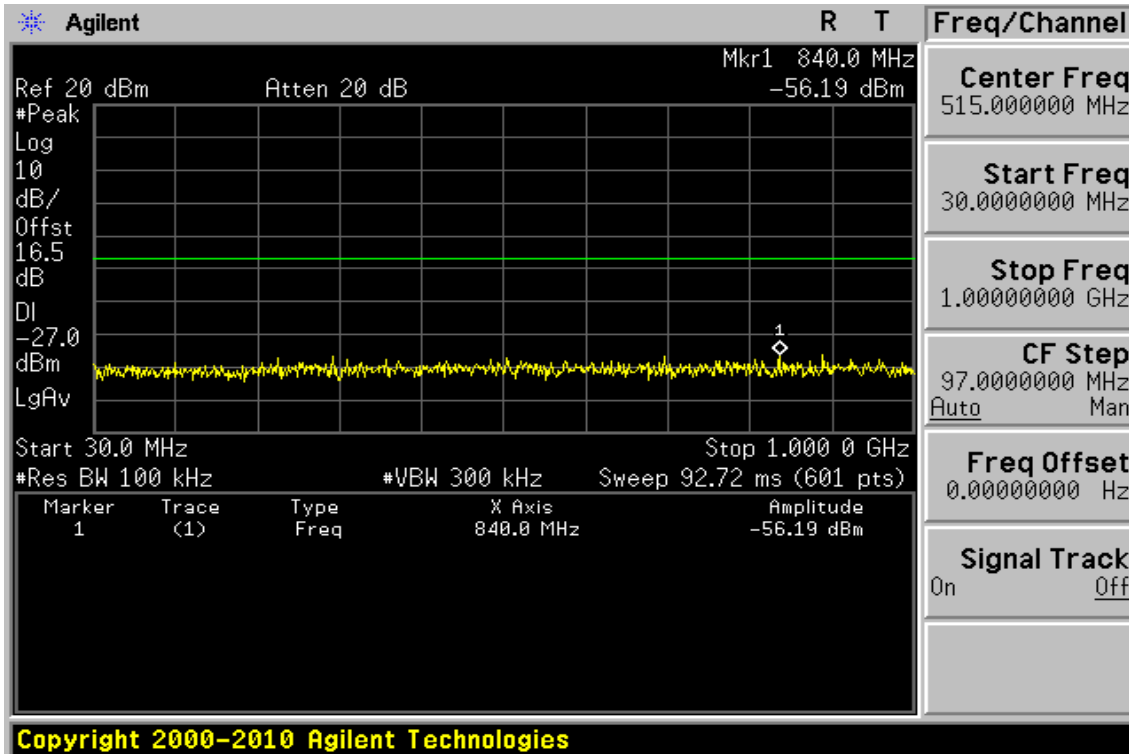


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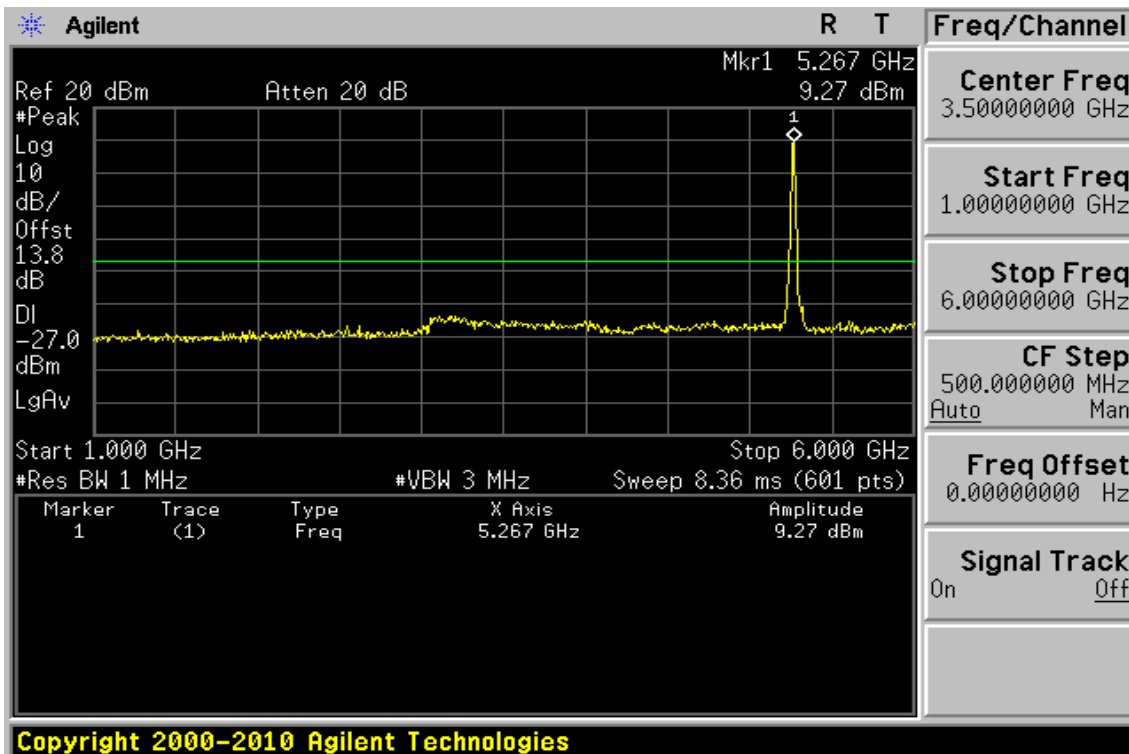
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**802.11a, 5250~5350 MHz**  
**Ch Low 30MHz – 1GHz (5260 MHz)**



**Ch Low 1GHz – 6GHz (5260 MHz)**

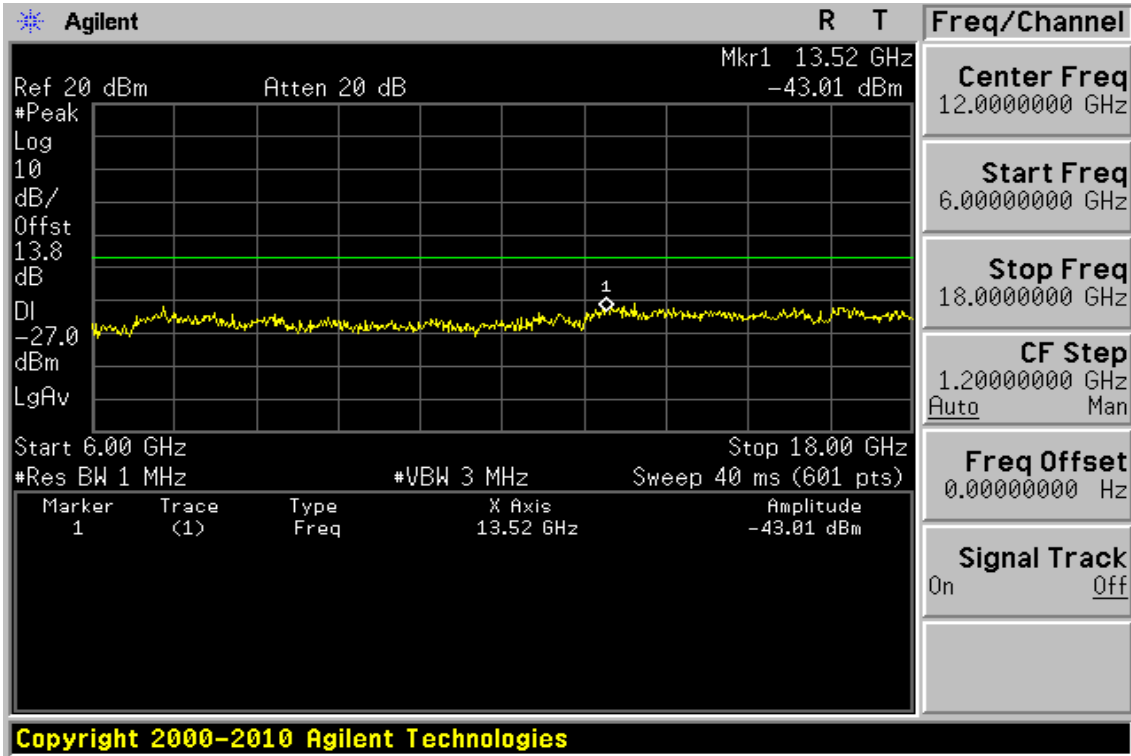


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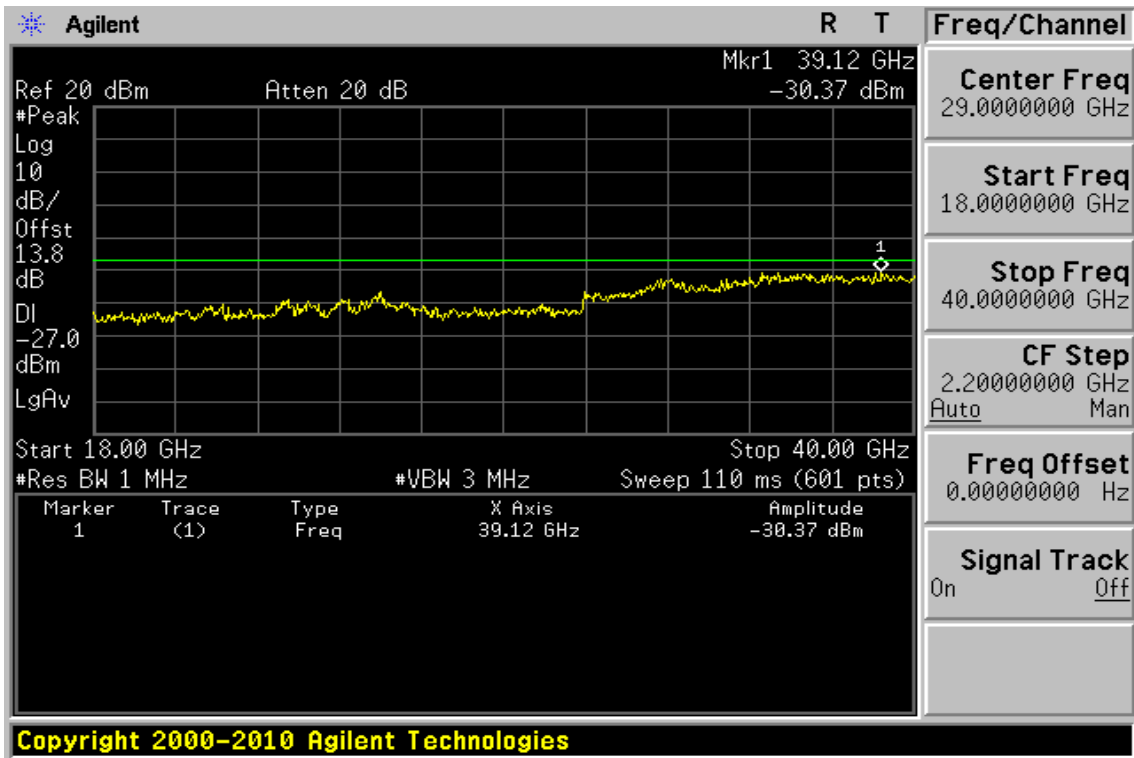
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**Ch Low 6GHz – 18GHz**



**Ch Low 18GHz – 40GHz**

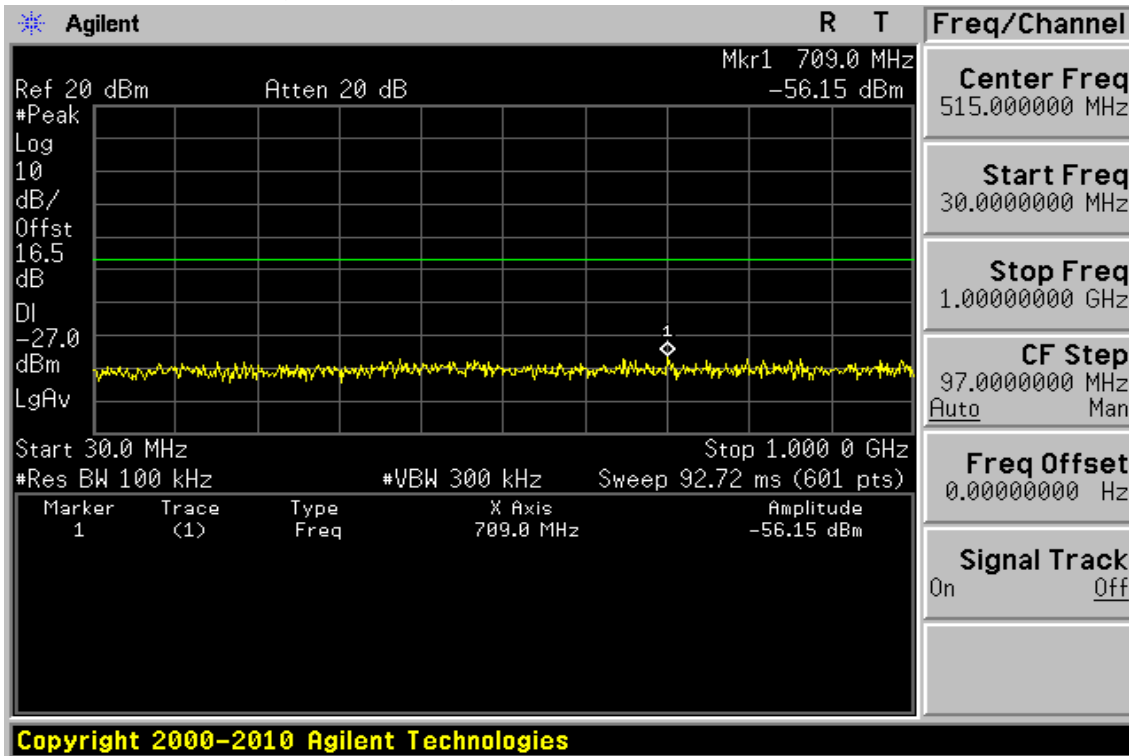


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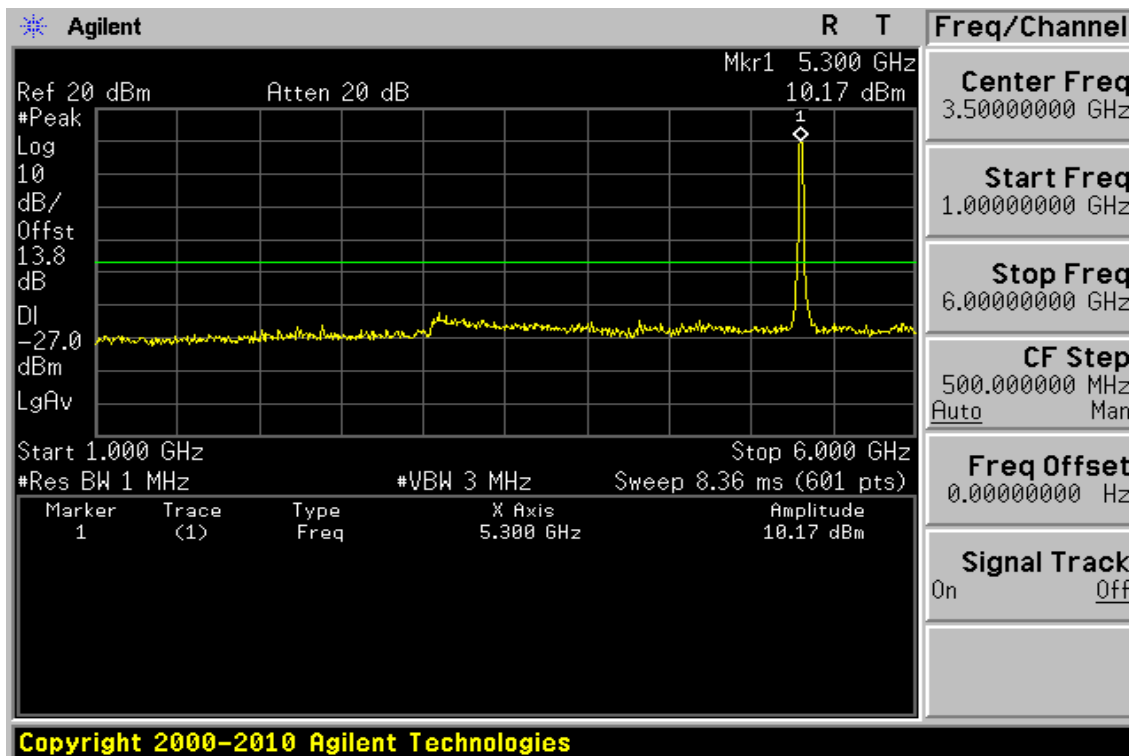
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**Ch Mid 30MHz – 1GHz (5300 MHz)**



**Ch Mid 1GHz – 6GHz**



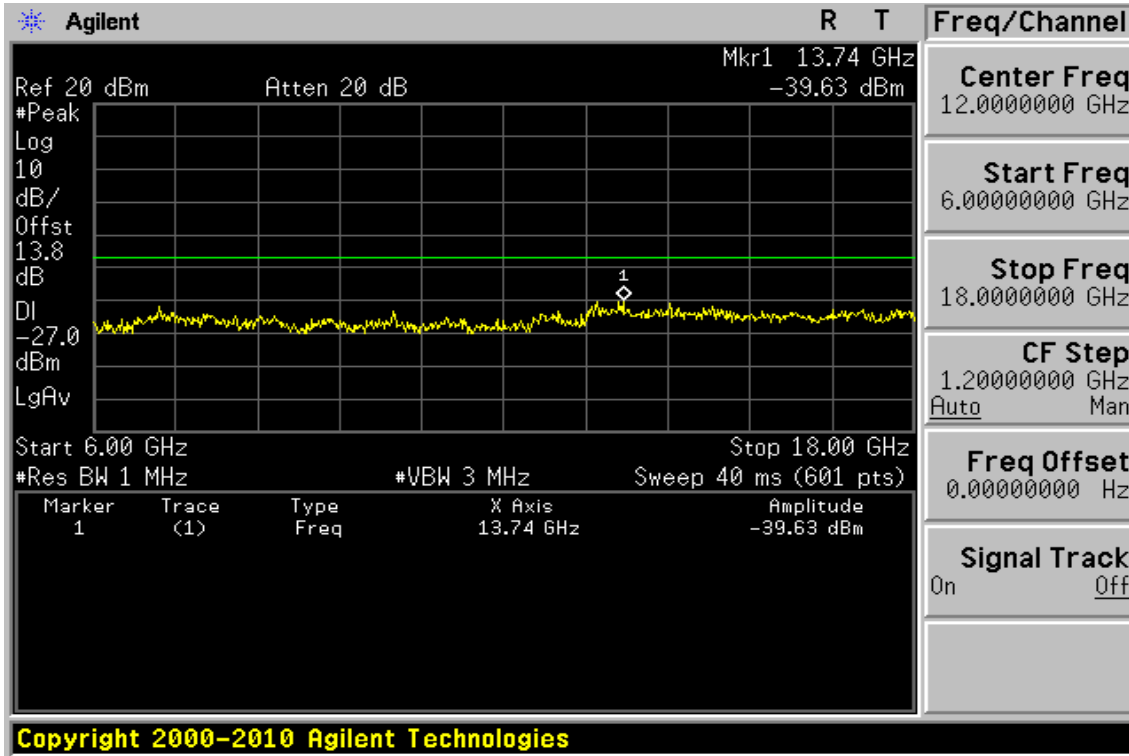
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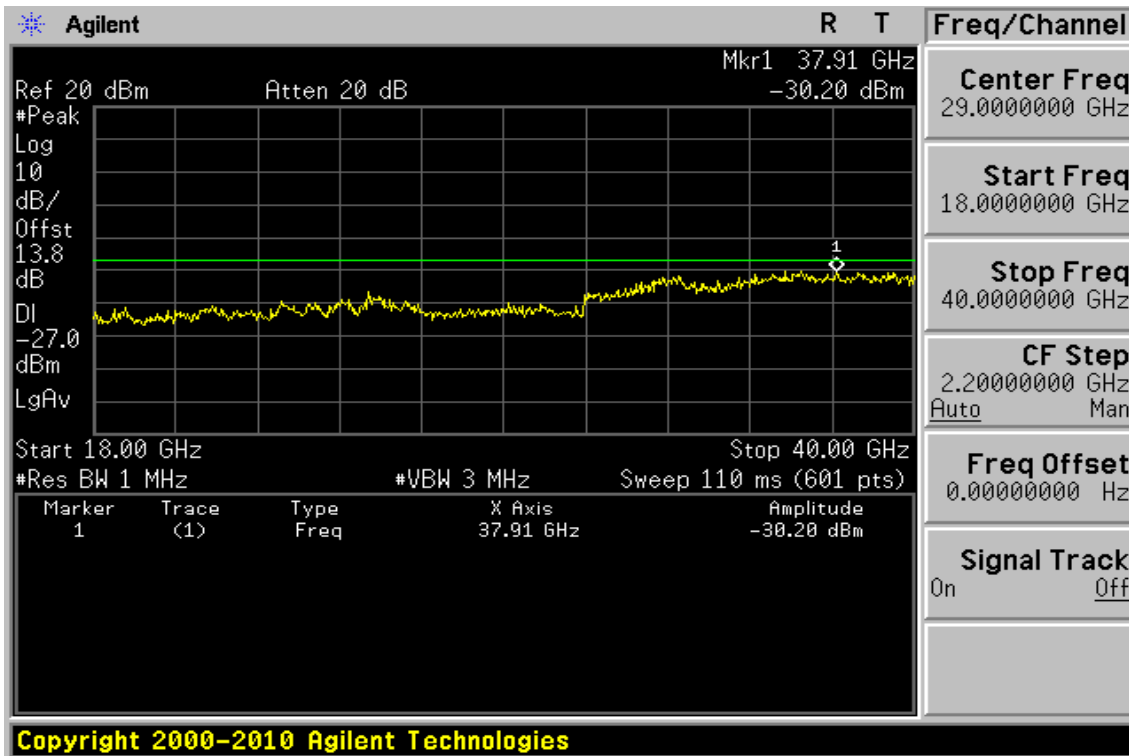
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**Ch Mid 6GHz – 18GHz**



**Ch Mid 18GHz – 40GHz**

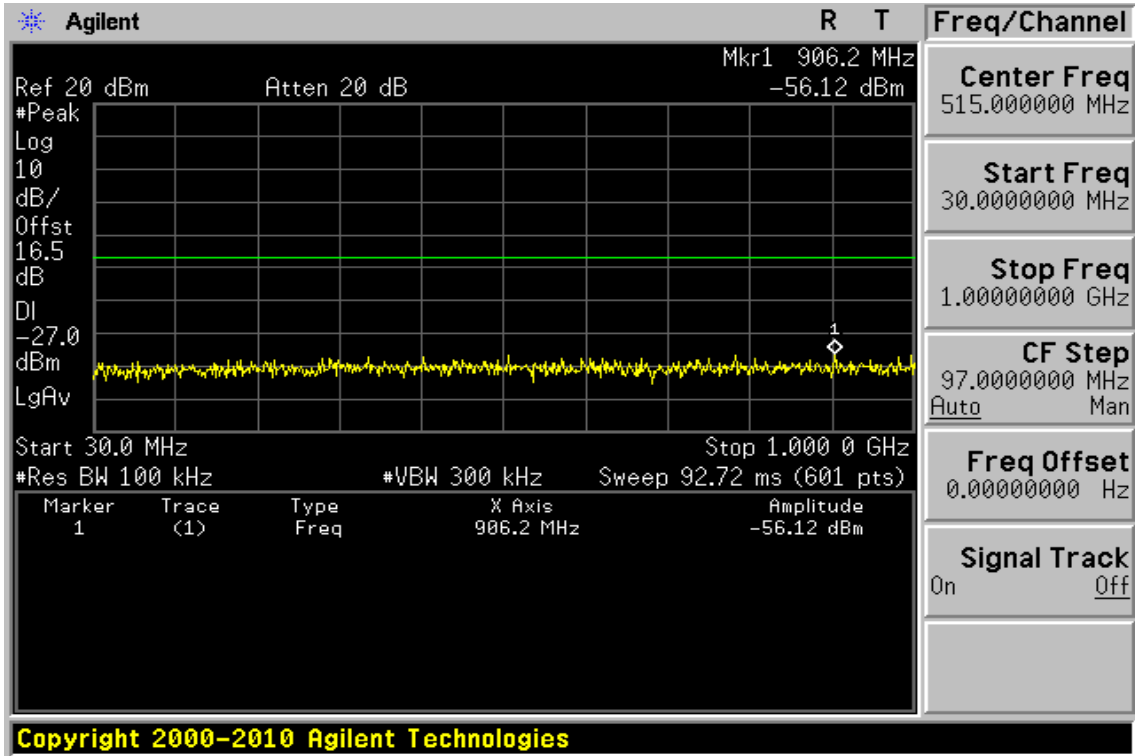


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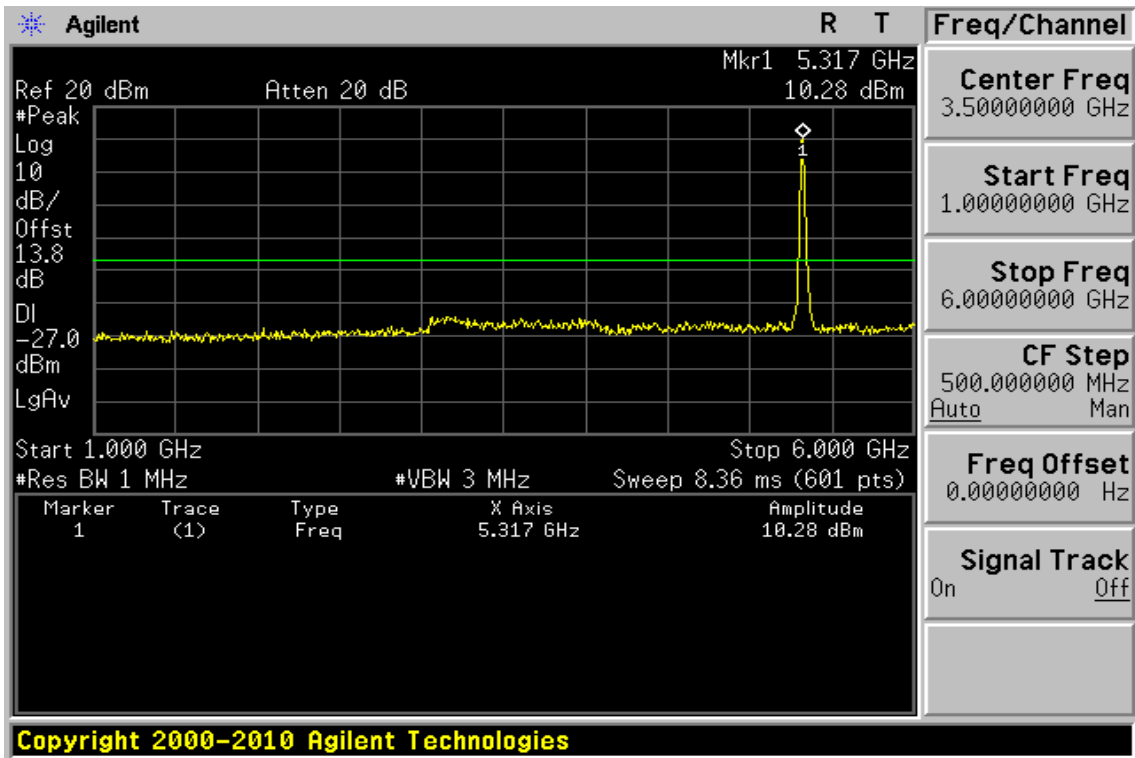
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**Ch High 30MHz – 1GHz (5320 MHz)**



**Ch High 1GHz – 6GHz**

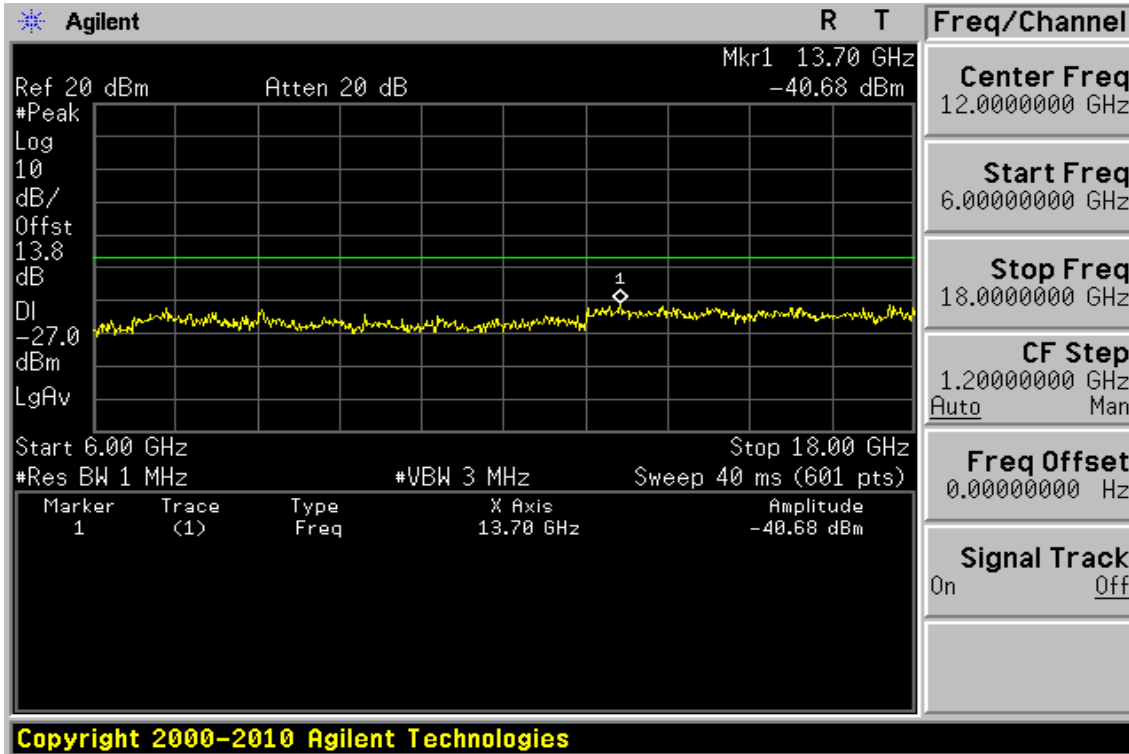


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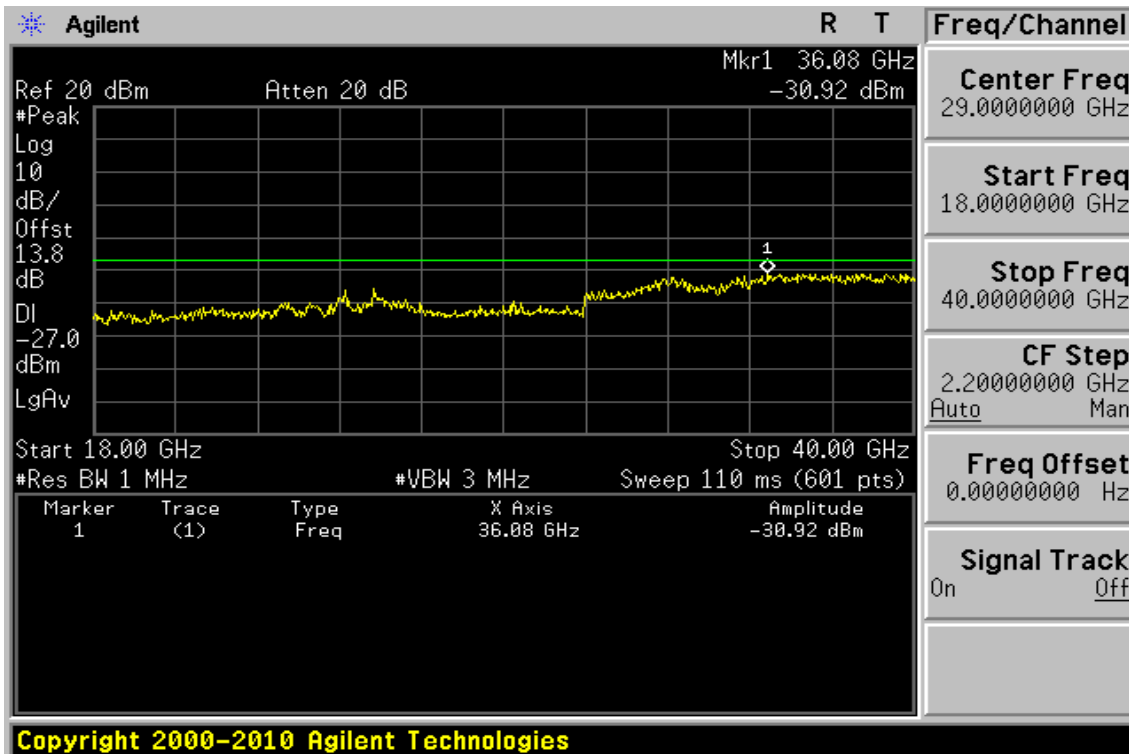
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Ch High 6GHz – 18GHz



Ch High 18GHz – 40GHz



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**Out of Band emission at antenna terminals – 802.11a**

Fundamental Frequency 5180 MHz Engineer :Nick  
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	—	-27.00	—
30-1000	S	-56.91	-27.00	29.91
10360.00	H	—	-27.00	—
13720.00	S	-40.71	-27.00	13.71
15540.00	H	—	-27.00	—
20720.00	H	—	-27.00	—
25900.00	H	—	-27.00	—
31080.00	H	—	-27.00	—
36220.00	S	-30.24	-27.00	3.24

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor. Ref: Reference Signal

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Fundamental Frequency 5260 MHz Engineer :Nick  
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-27.00	---
30-1000	S	-56.19	-27.00	29.19
10520.00	H	---	-27.00	---
13520.00	H	-43.01	-27.00	16.01
15780.00	S	---	-27.00	---
21040.00	H	---	-27.00	---
26300.00	H	---	-27.00	---
31560.00	H	---	-27.00	---
36820.00	H	---	-27.00	---
39120.00	S	-30.37	-27.00	3.37

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
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Fundamental Frequency 5320 MHz Engineer :Nick  
 Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-27.00	---
30-1000	S	-56.12	-27.00	29.12
10640.00	H	---	-27.00	---
13700.00	S	-40.68	-27.00	13.68
15960.00	H	---	-27.00	---
21280.00	H	---	-27.00	---
26600.00	H	---	-27.00	---
31920.00	H	---	-27.00	---
36080.00	S	-30.92	-27.00	3.92
37240.00	H	---	-27.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
 "----" : denotes Noise Floor.

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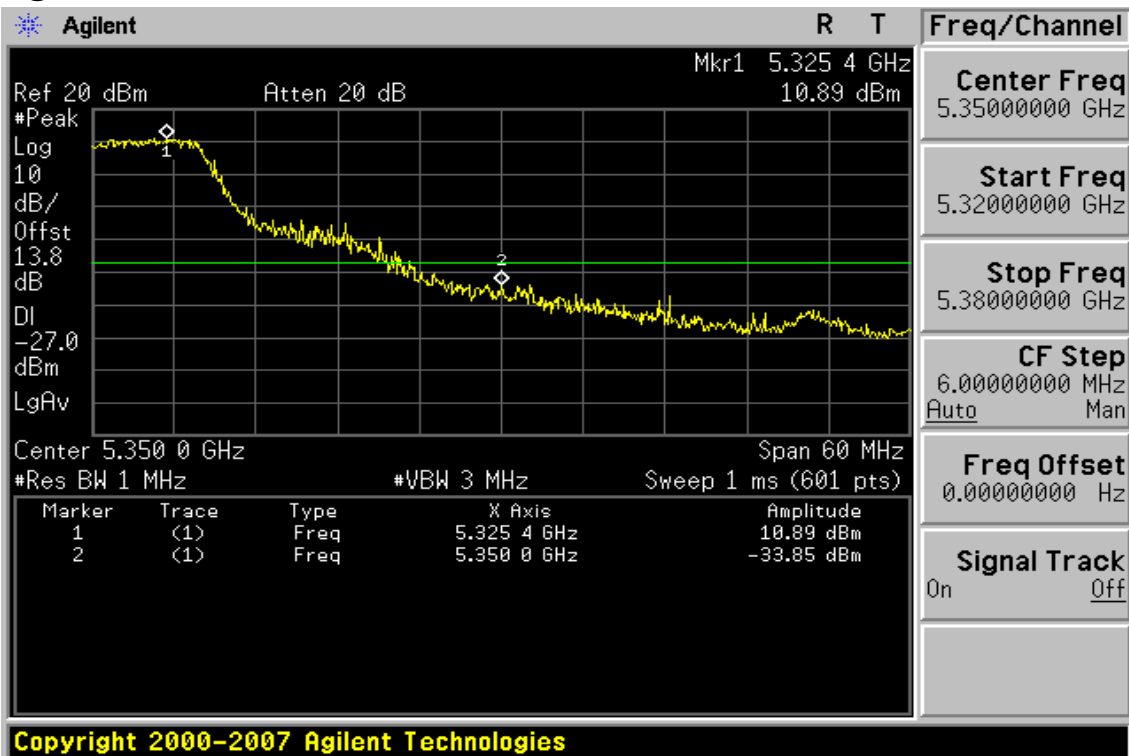
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802.11a 5150~5350 MHz

Band Edges Test Data CH 5150



Band Edges Test Data CH 5350



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**Tabular Results:**

**802.11a – Band Edge falling into un-restricted band**

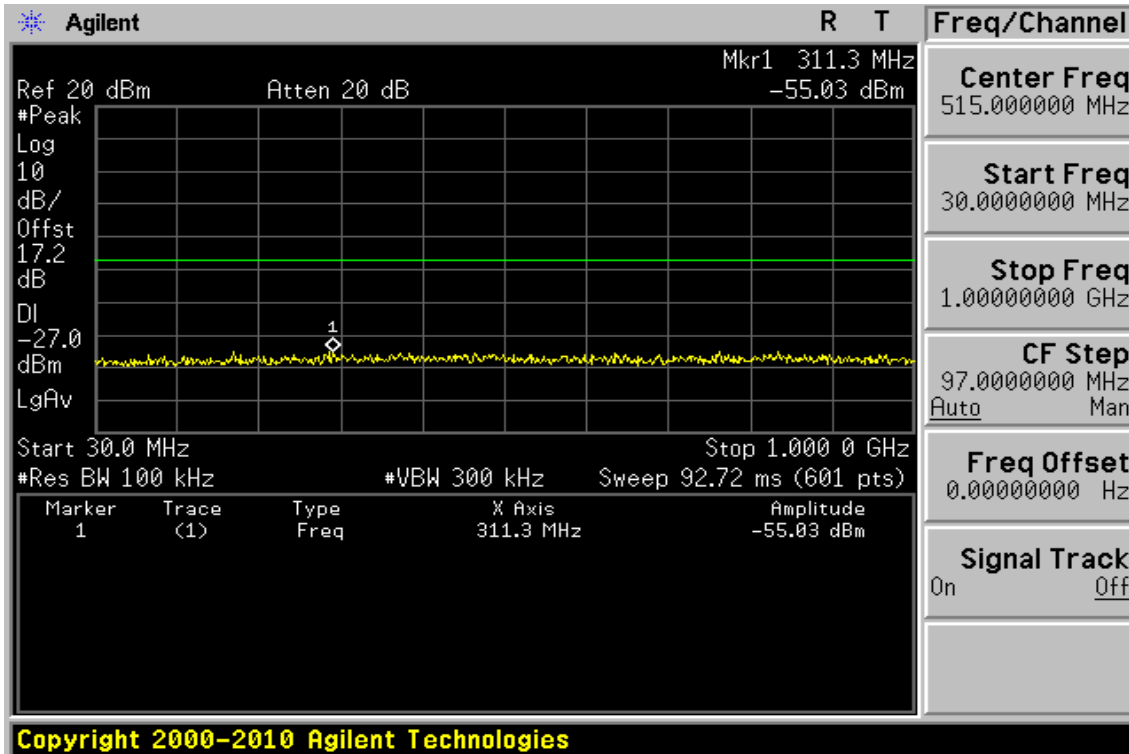
Frequency (GHz)	Results (dBm)	Limit (dBm)	Verdict
5.150	-37.50	-27.00	Pass
5.350	-33.85	-27.00	Pass

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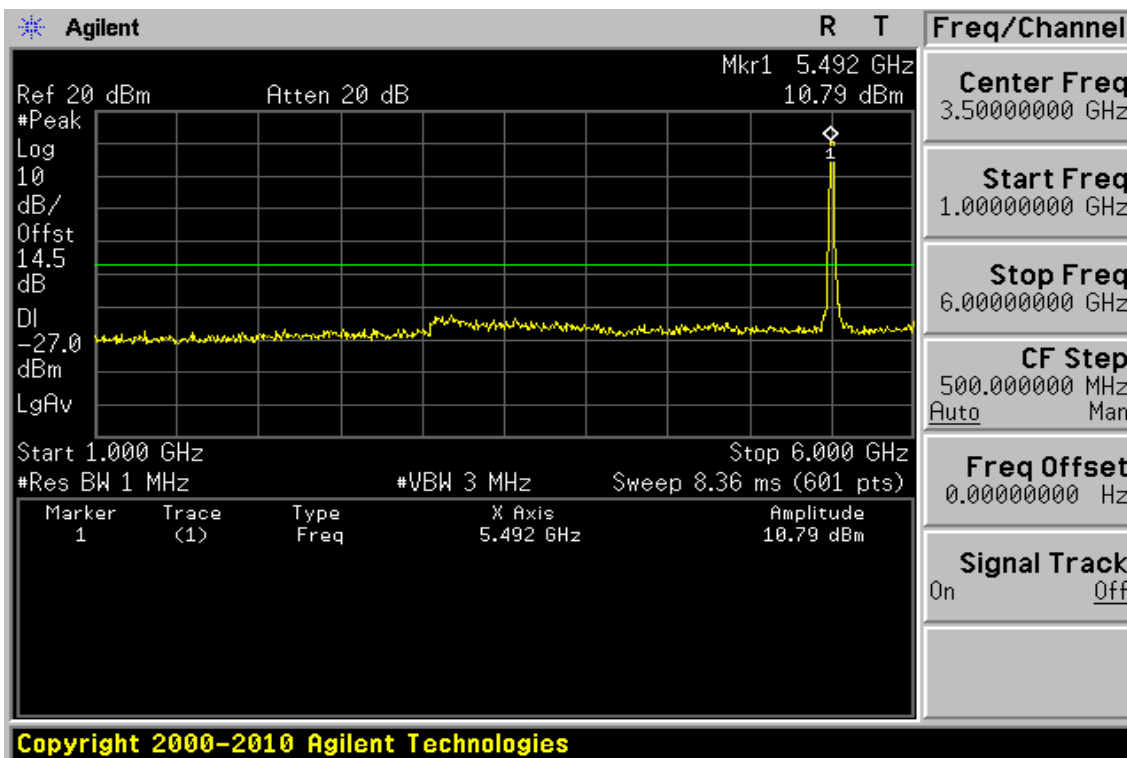
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**802.11a, 5470~5725 MHz**  
**Ch Low 30MHz – 1GHz (5500 MHz)**



**Ch Low 1GHz – 6GHz**

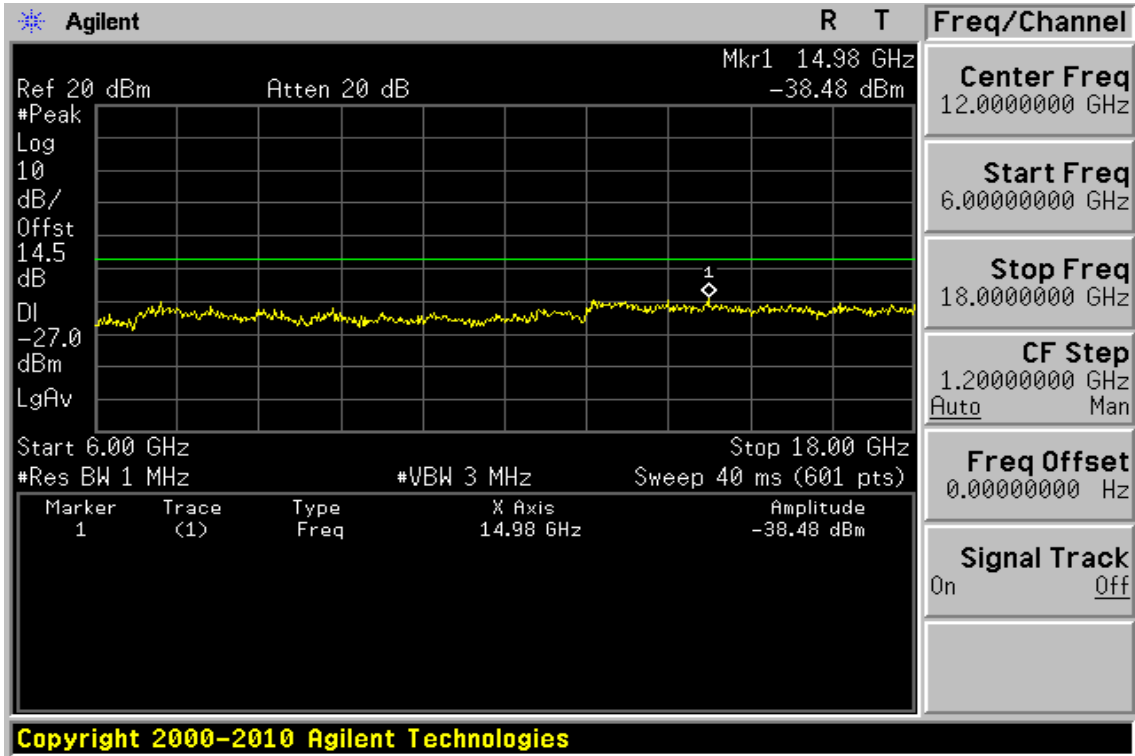


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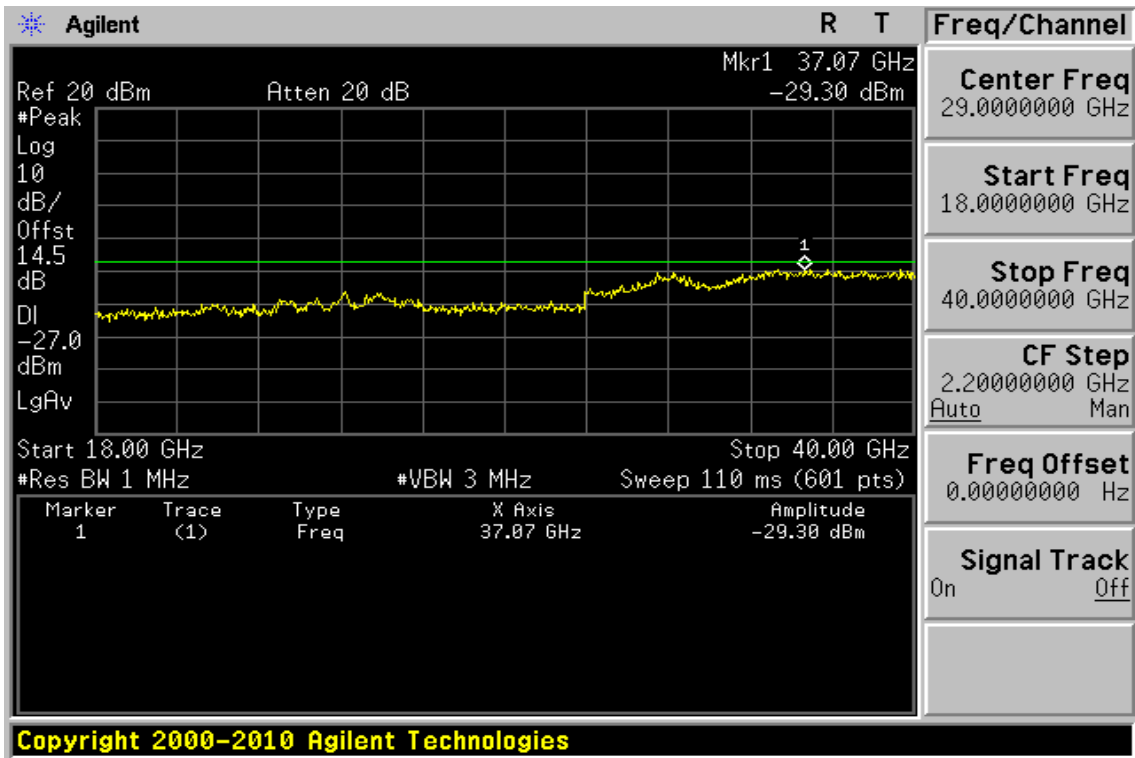
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**Ch Low 6GHz – 18GHz**



**Ch Low 18GHz – 40GHz**

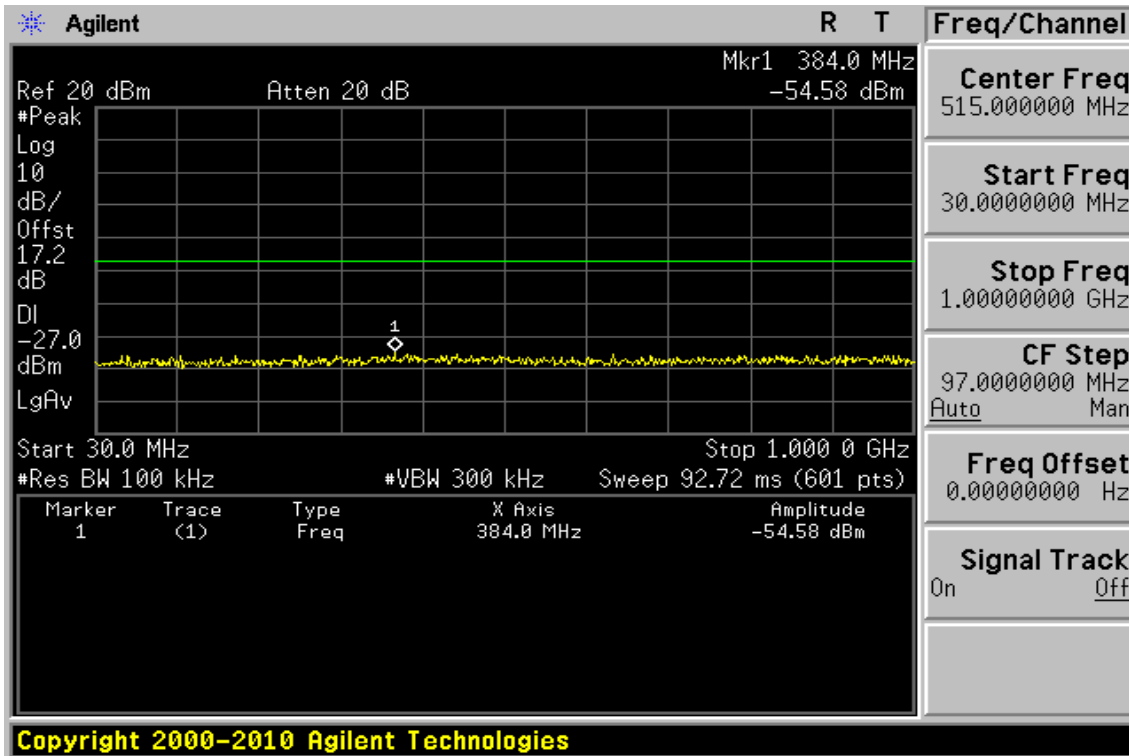


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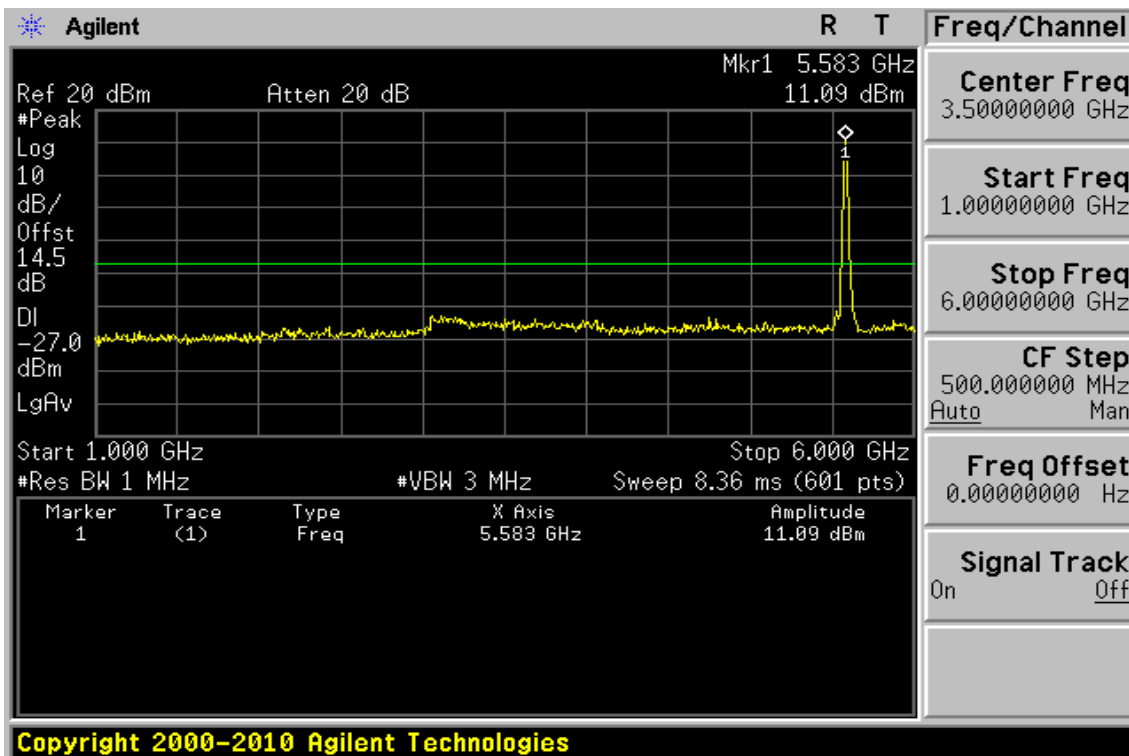
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**Ch Mid 30MHz – 1GHz (5580 MHz)**



**Ch Mid 1GHz – 6GHz**

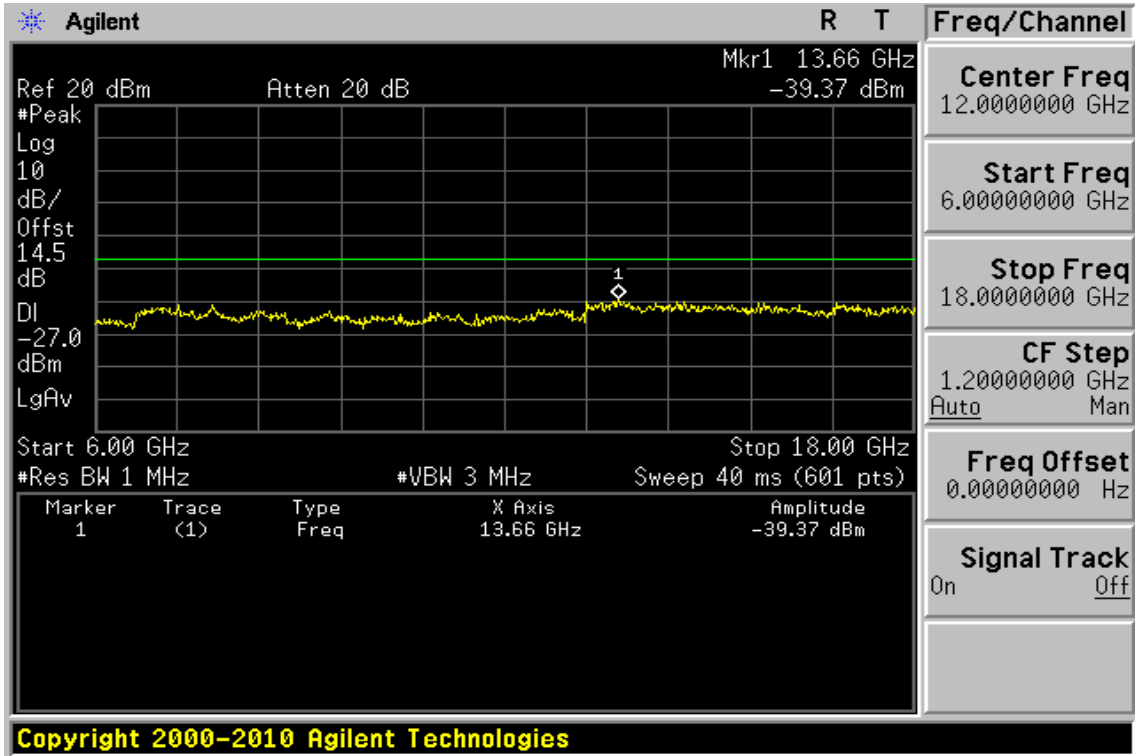


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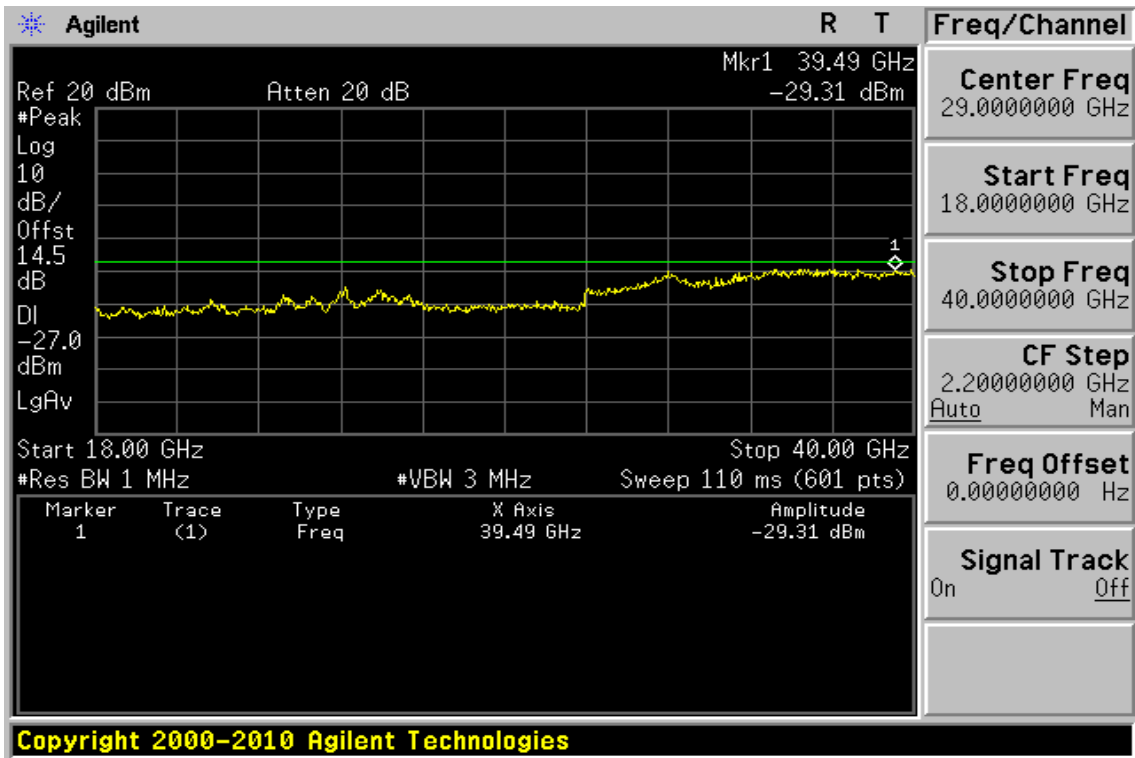
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Ch Mid 6GHz – 18GHz



Ch Mid 18GHz – 40GHz

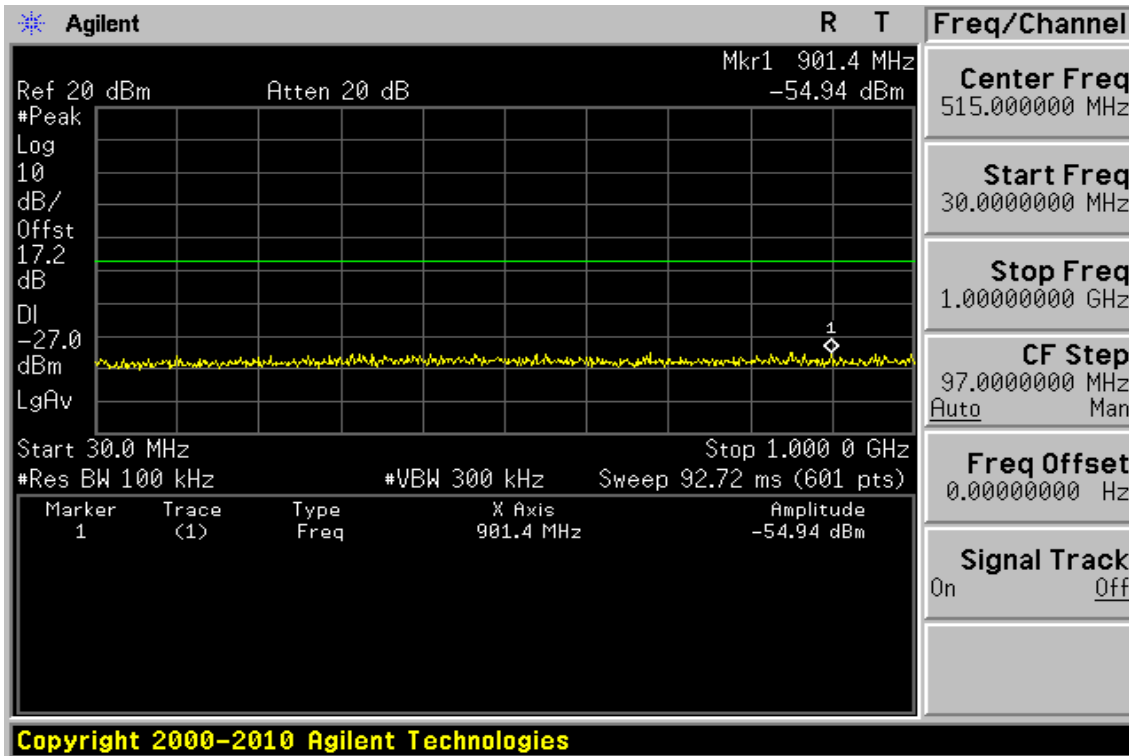


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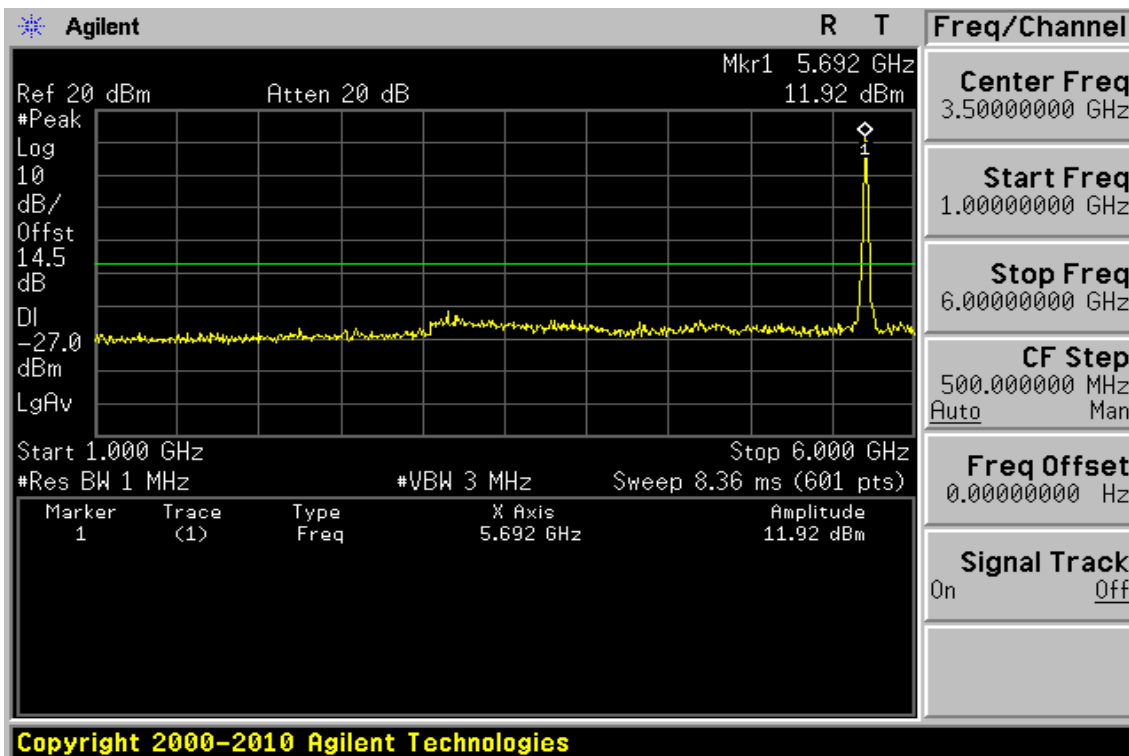
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**Ch High 30MHz – 1GHz (5700 MHz)**



**Ch High 1GHz – 6GHz**



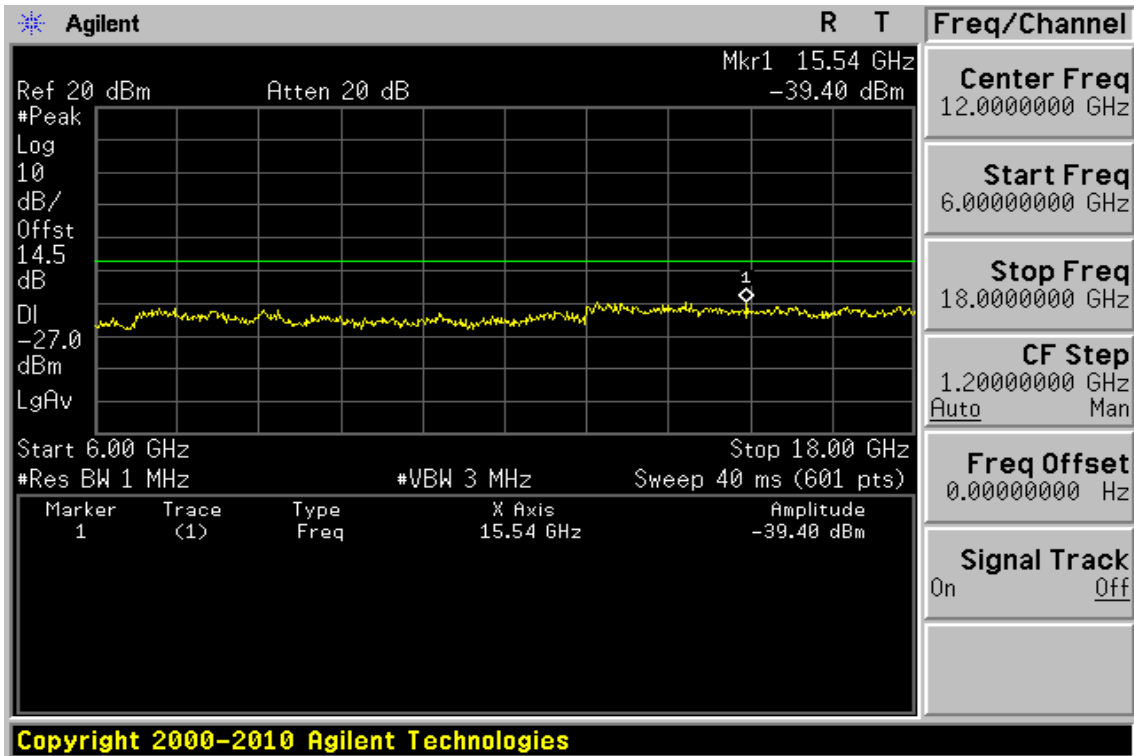
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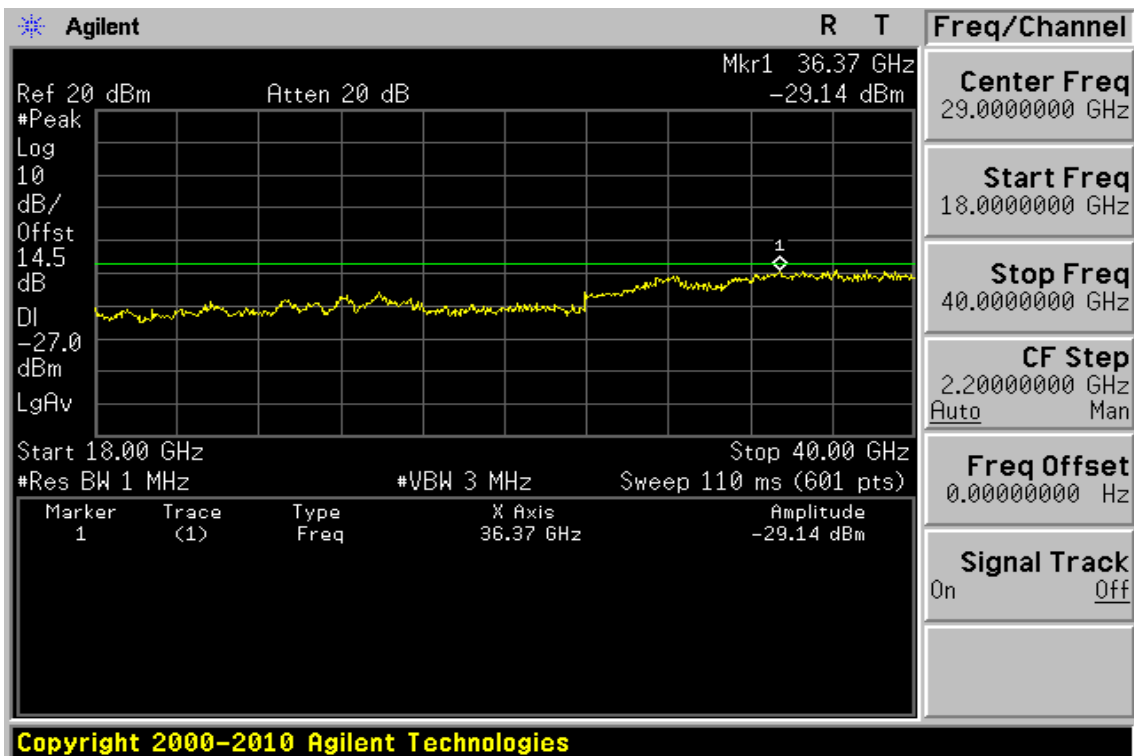
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### Ch High 6GHz – 18GHz



### Ch High 18GHz – 40GHz



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**Out of Band emission at antenna terminals – 802.11a**

Fundamental Frequency 5500 MHz Engineer :Nick  
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-27.00	---
30-1000	S	-55.03	-27.00	28.03
11000.00	H	---	-27.00	---
14980.00	S	-38.48	-27.00	11.48
16500.00	H	---	-27.00	---
22000.00	H	---	-27.00	---
27500.00	H	---	-27.00	---
33000.00	H	---	-27.00	---
37070.00	S	-29.3	-27.00	2.30
38500.00	H	---	-27.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor. Ref: Reference Signal

Fundamental Frequency 5580 MHz Engineer :Nick  
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-27.00	--
30-1000	S	-54.58	-27.00	27.58
11160.00	H	---	-27.00	--
13660.00	S	-39.37	-27.00	12.37
16740.00	H	---	-27.00	--
22320.00	H	---	-27.00	--
27900.00	H	---	-27.00	--
33480.00	H	---	-27.00	--
39490.00	H	-29.31	-27.00	2.31
39060.00	H	---	-27.00	--

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
 "---" : denotes Noise Floor.

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Fundamental Frequency 5700 MHz Engineer :Nick  
 Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-27.00	---
30-1000	S	-54.94	-27.00	27.94
11400.00	H	---	-27.00	---
15540.00	S	-39.4	-27.00	12.40
17100.00	H	---	-27.00	---
22800.00	H	---	-27.00	---
28500.00	H	---	-27.00	---
34200.00	H	---	-27.00	---
36370.00	S	-29.14	-27.00	2.14
39900.00	H	---	-27.00	---

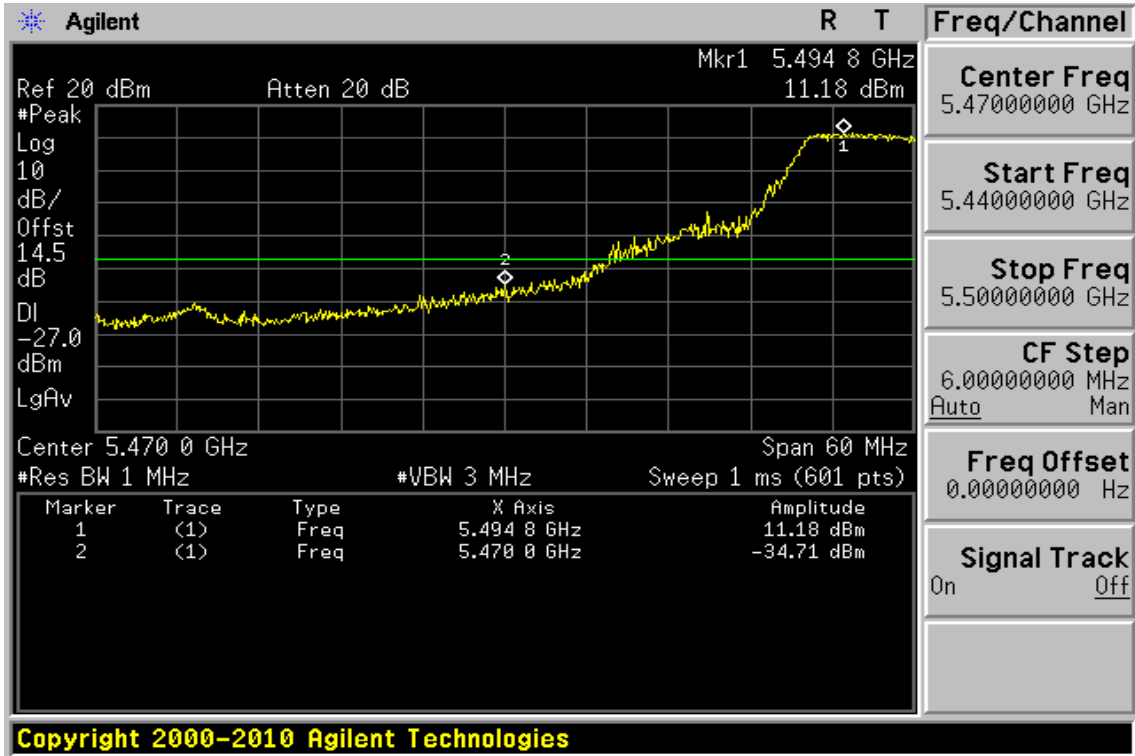
Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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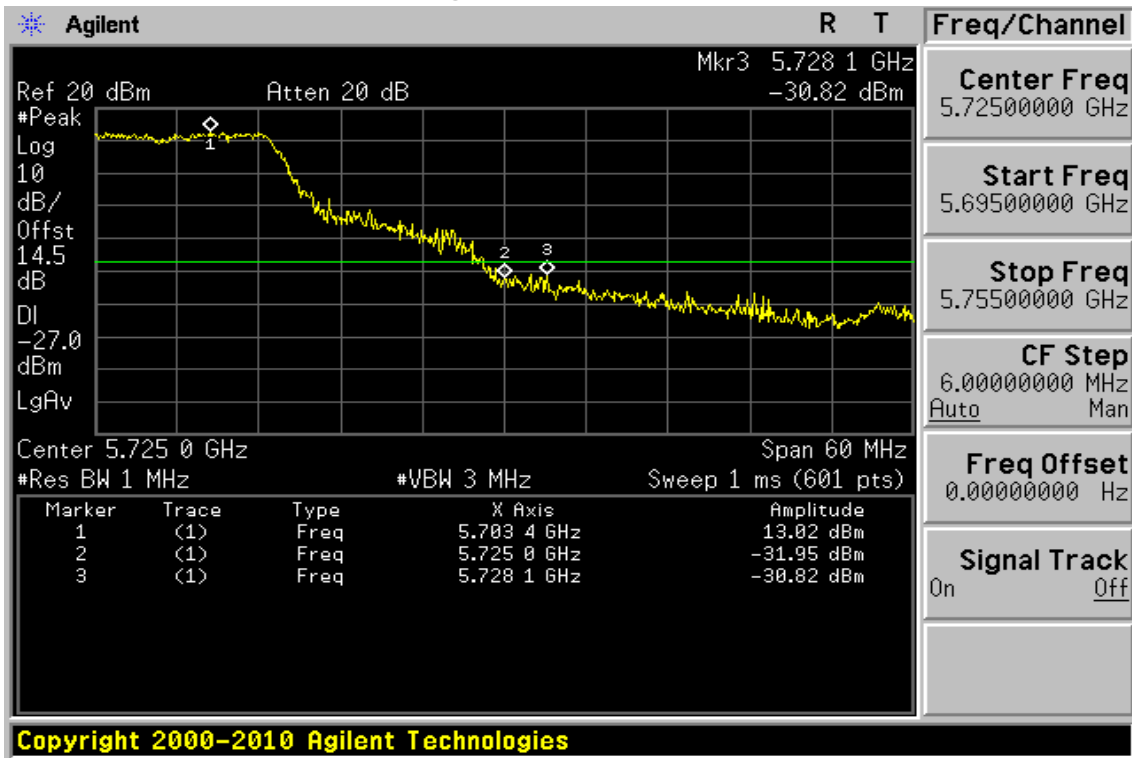
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### 802.11a 5470~5725 MHz Band Edges Test Data CH 5500



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



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**802.11a – Band Edge falling into un-restricted band**

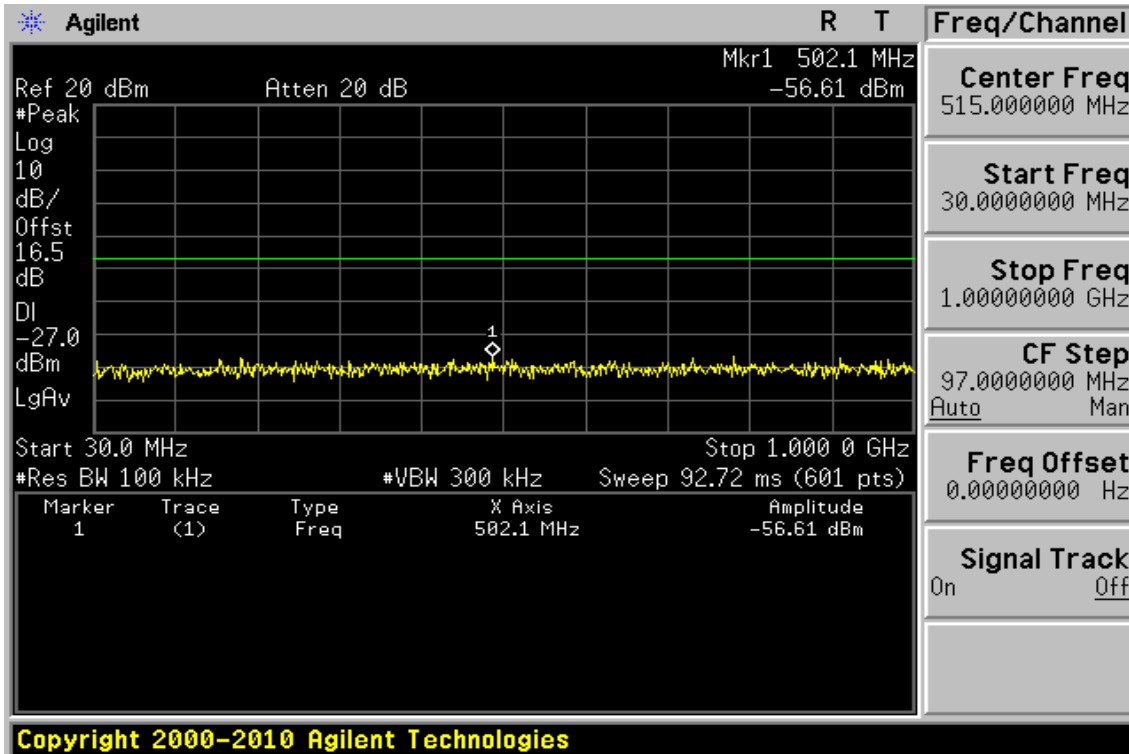
Frequency (GHz)	Results (dBm)	Limit (dBm)	Verdict
5.470	-34.71	-27.00	Pass
5.725	-31.95	-27.00	Pass

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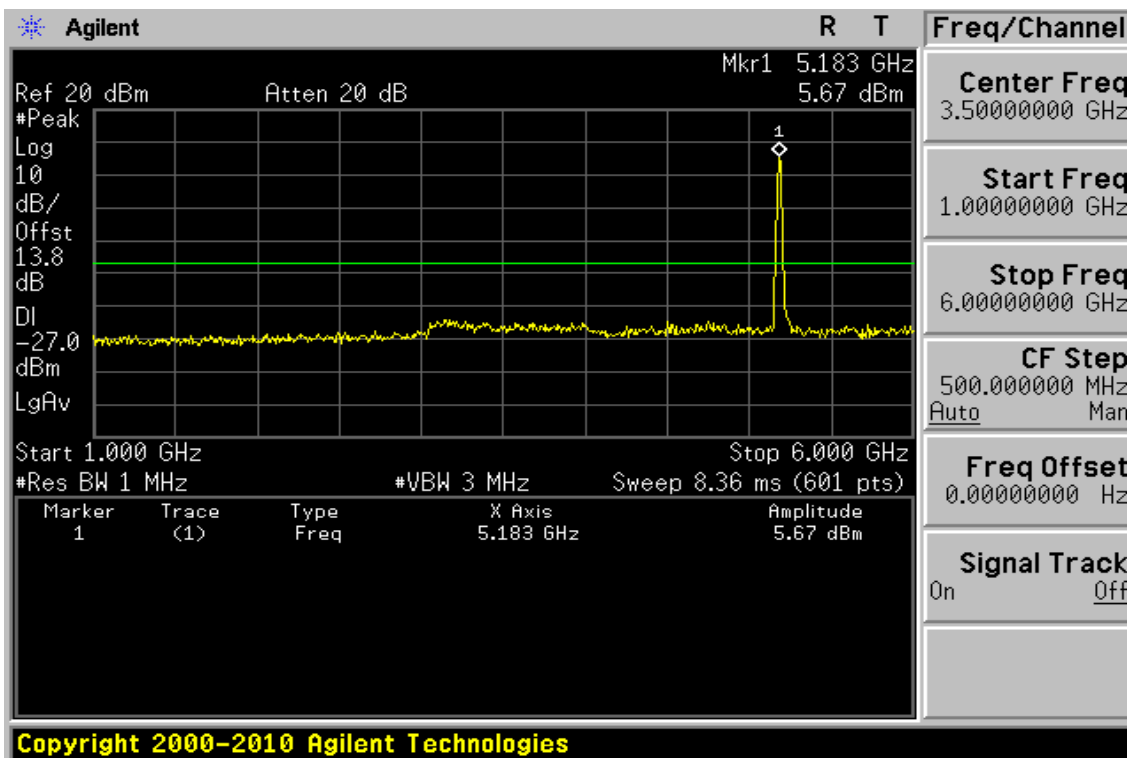
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**802.11n HT20, 5150~5250 MHz**  
**Ch Low 30MHz – 1GHz (5180 MHz)**



**Ch Low 1GHz – 6GHz**

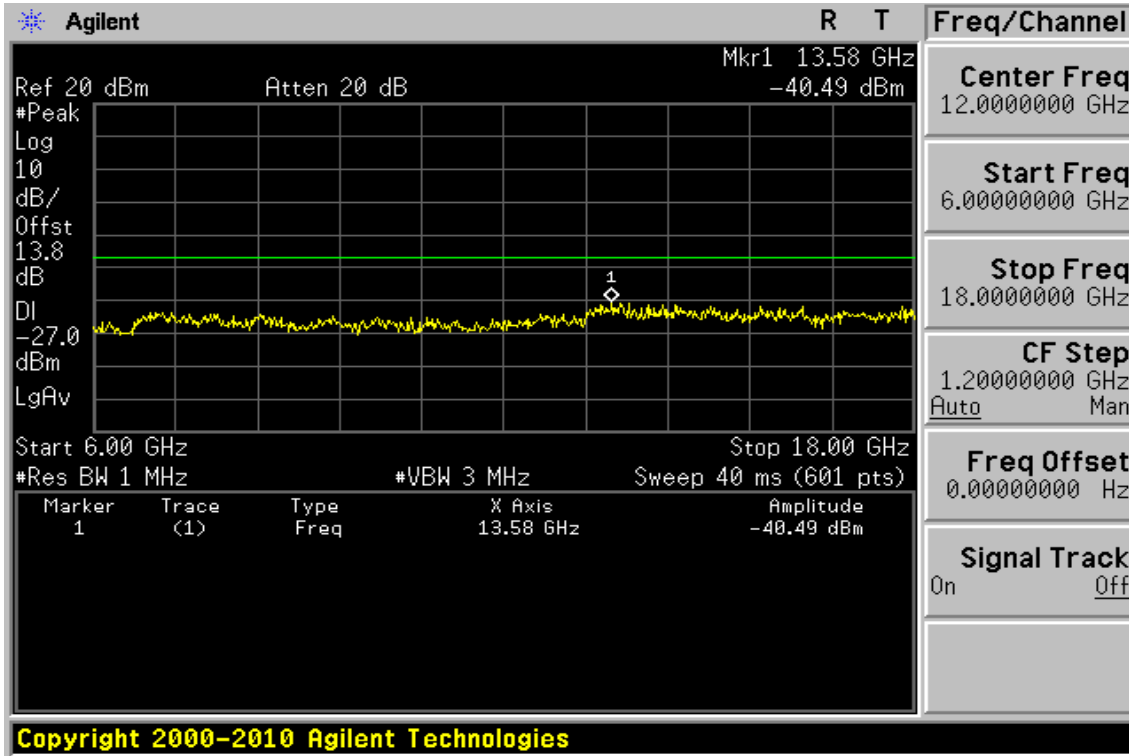


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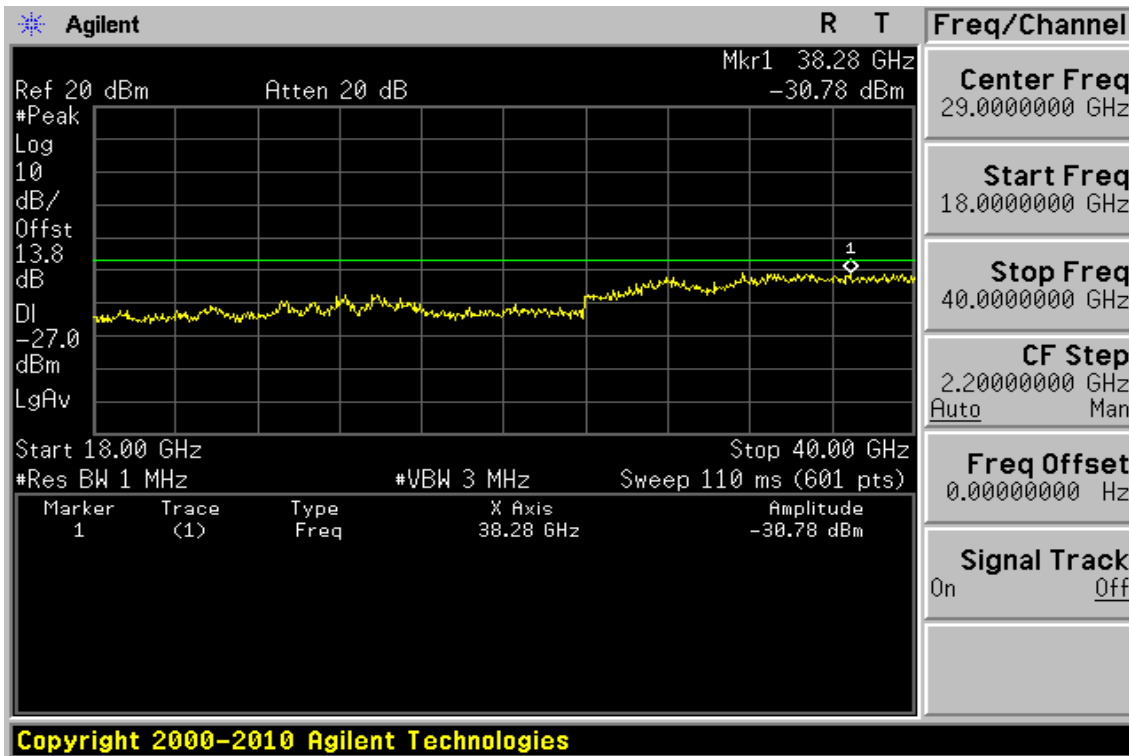
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Ch Low 6GHz – 18GHz



Ch Low 18GHz – 40GHz



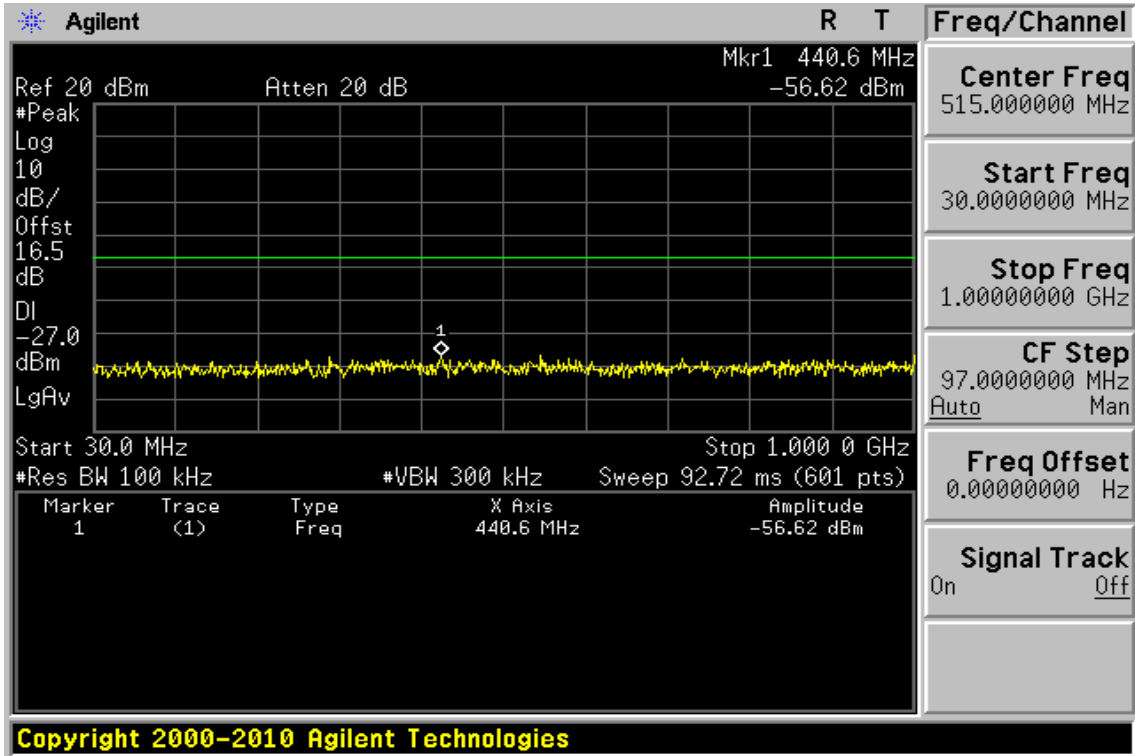
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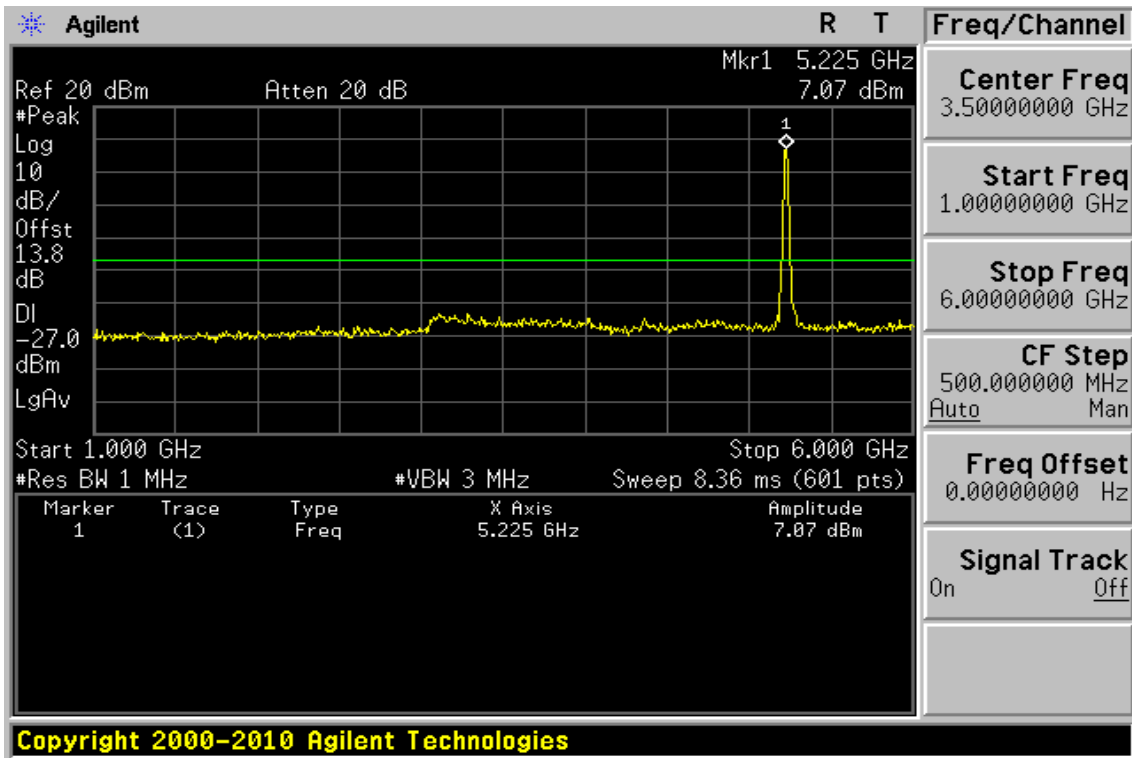
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**Ch Mid 30MHz – 1GHz (5220 MHz)**



**Ch Mid 1GHz – 6GHz**

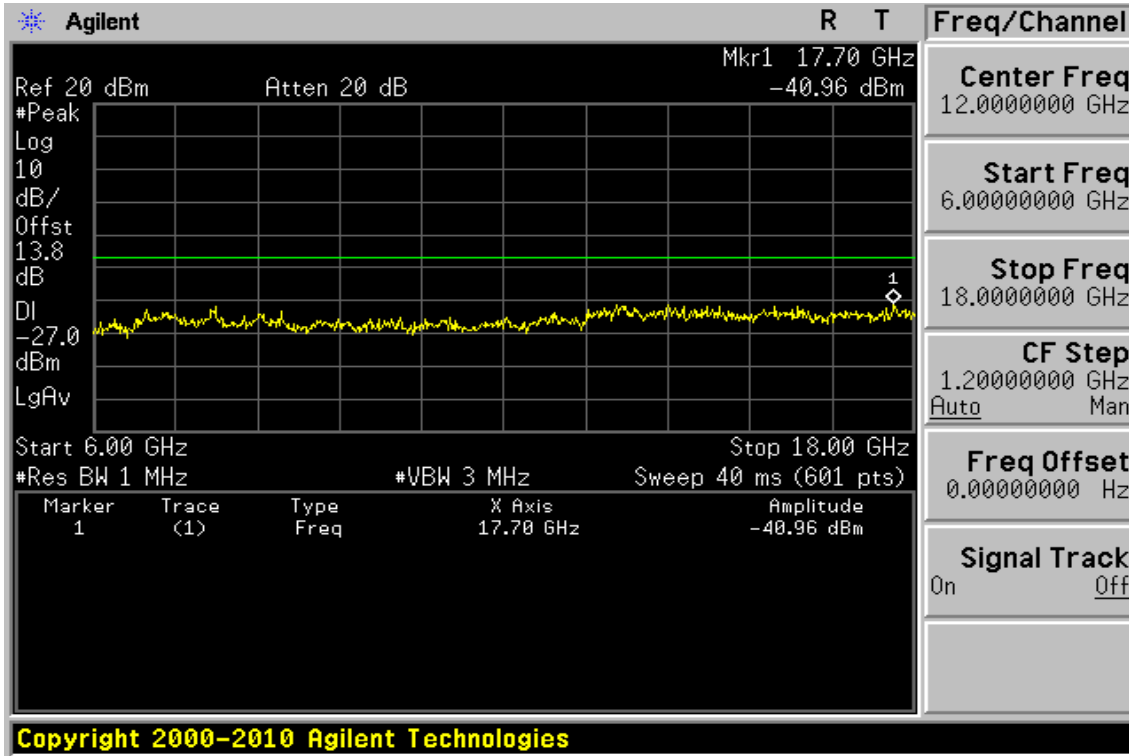


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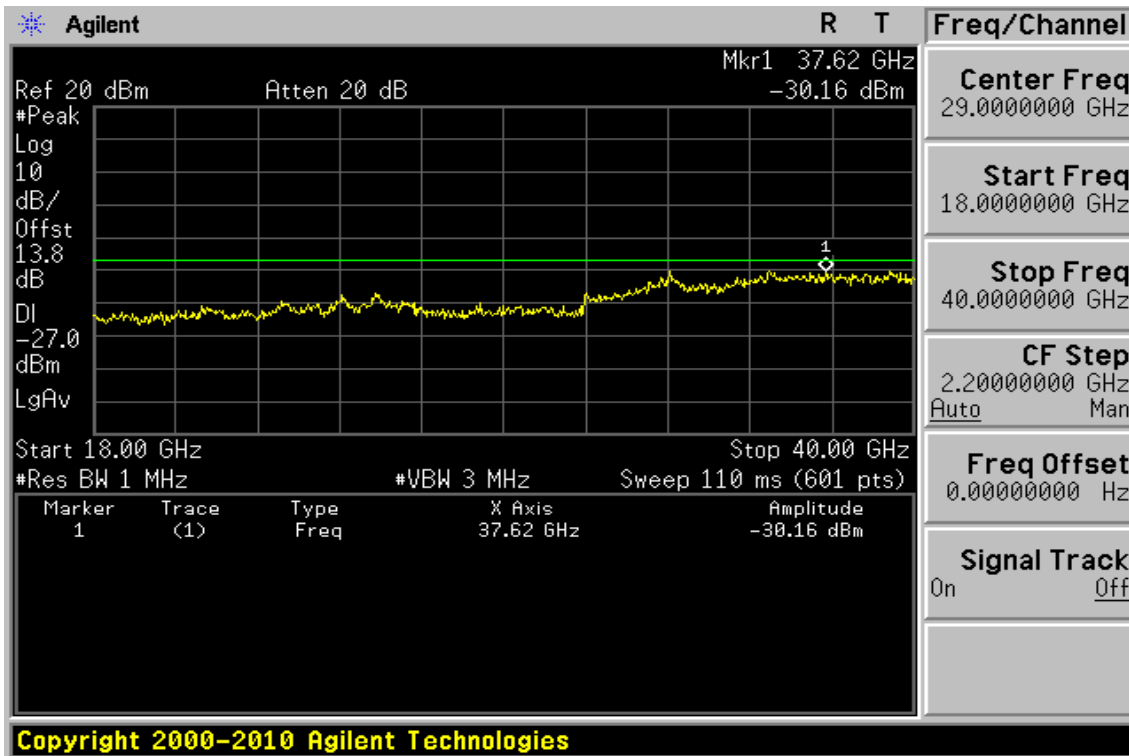
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**Ch Mid 6GHz – 18GHz**



**Ch Mid 18GHz – 40GHz**

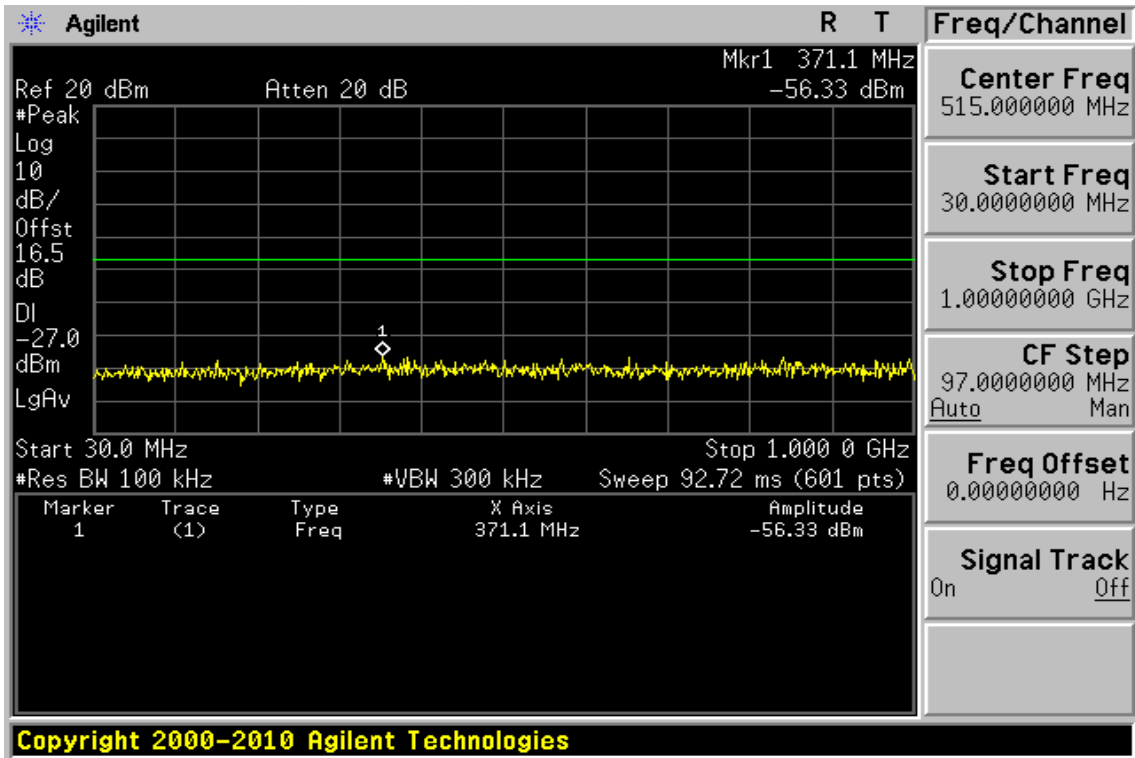


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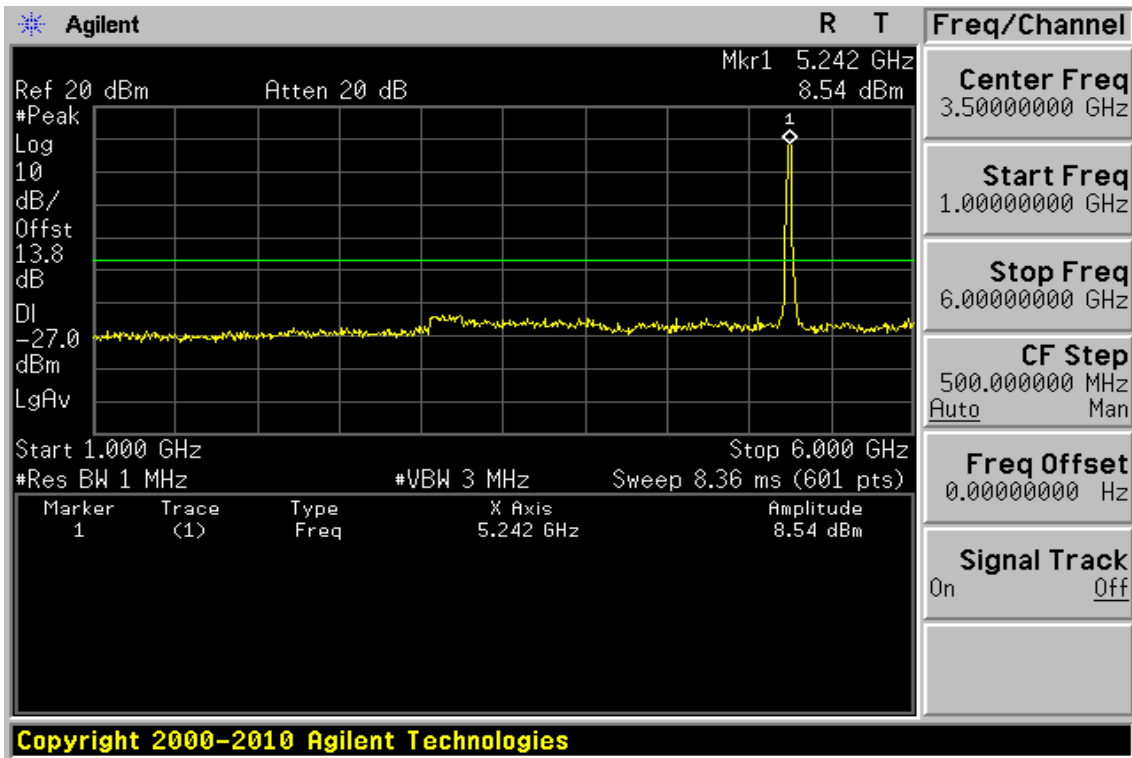
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**Ch High 30MHz – 1GHz (5240 MHz)**



**Ch High 1GHz – 6GHz**

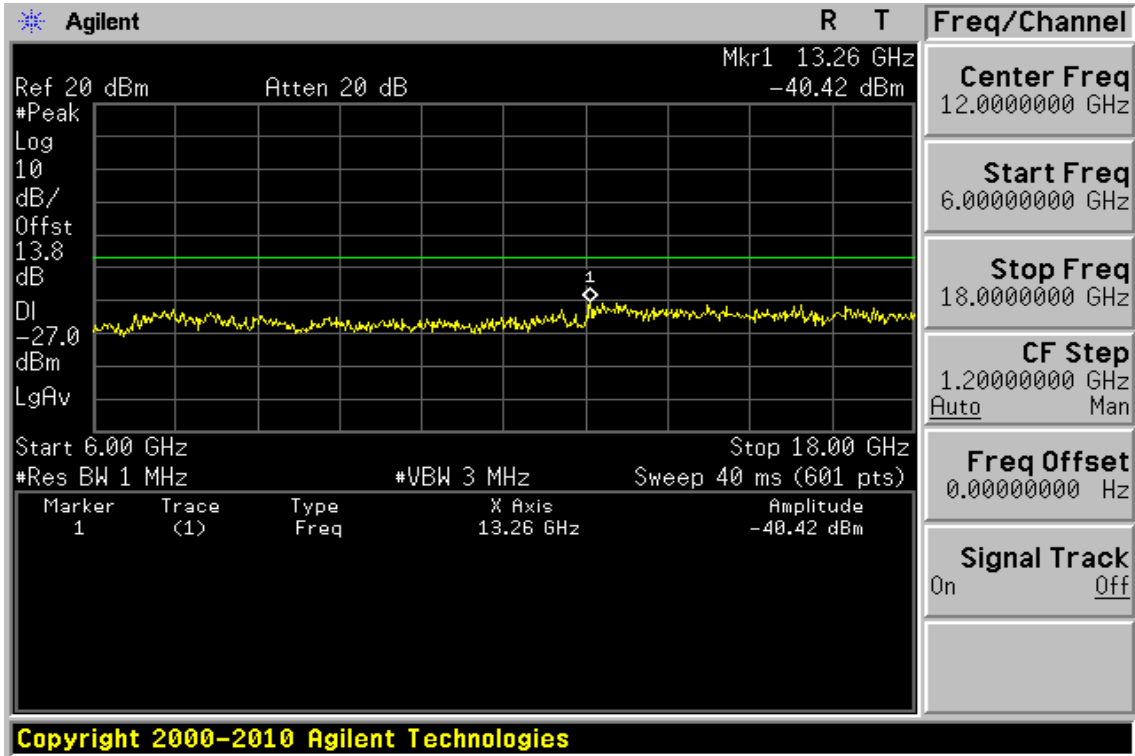


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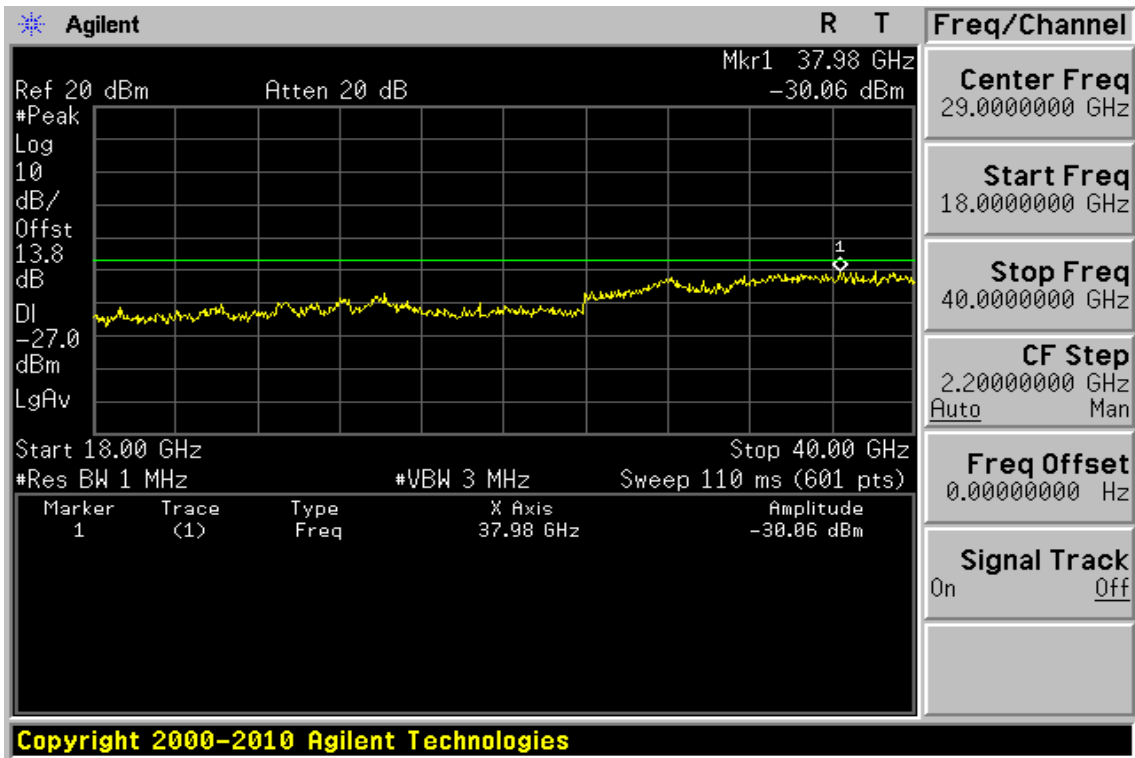
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Ch High 6GHz – 18GHz



Ch High 18GHz – 40GHz

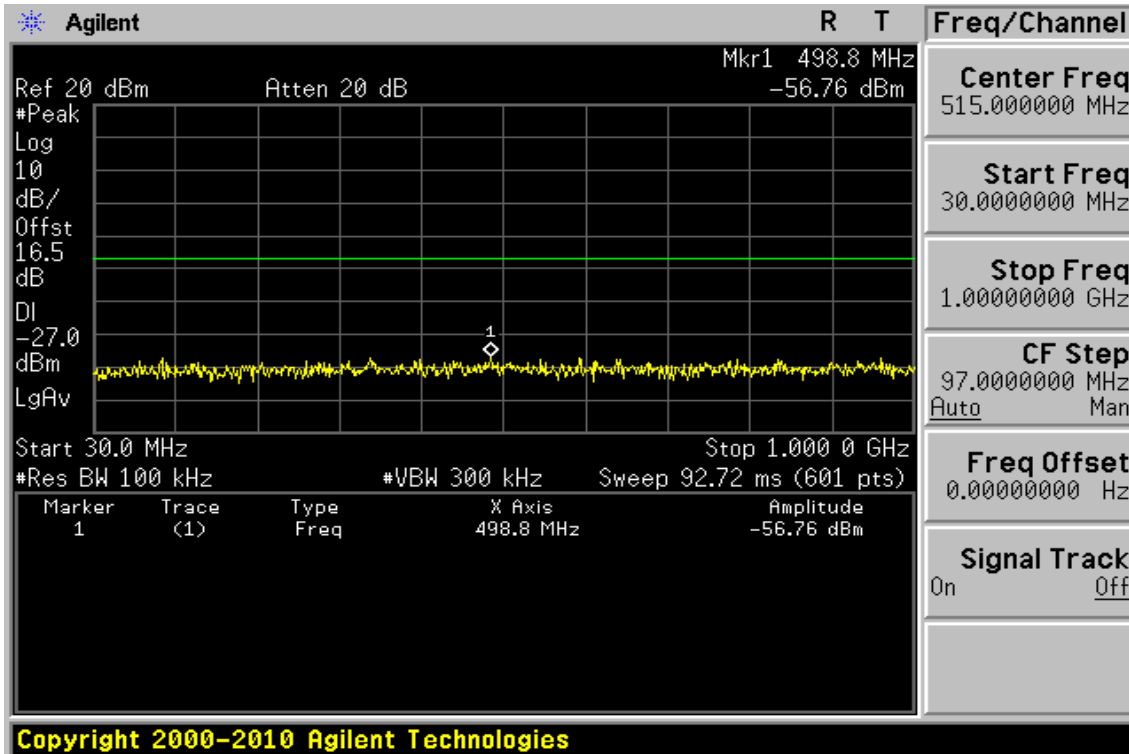


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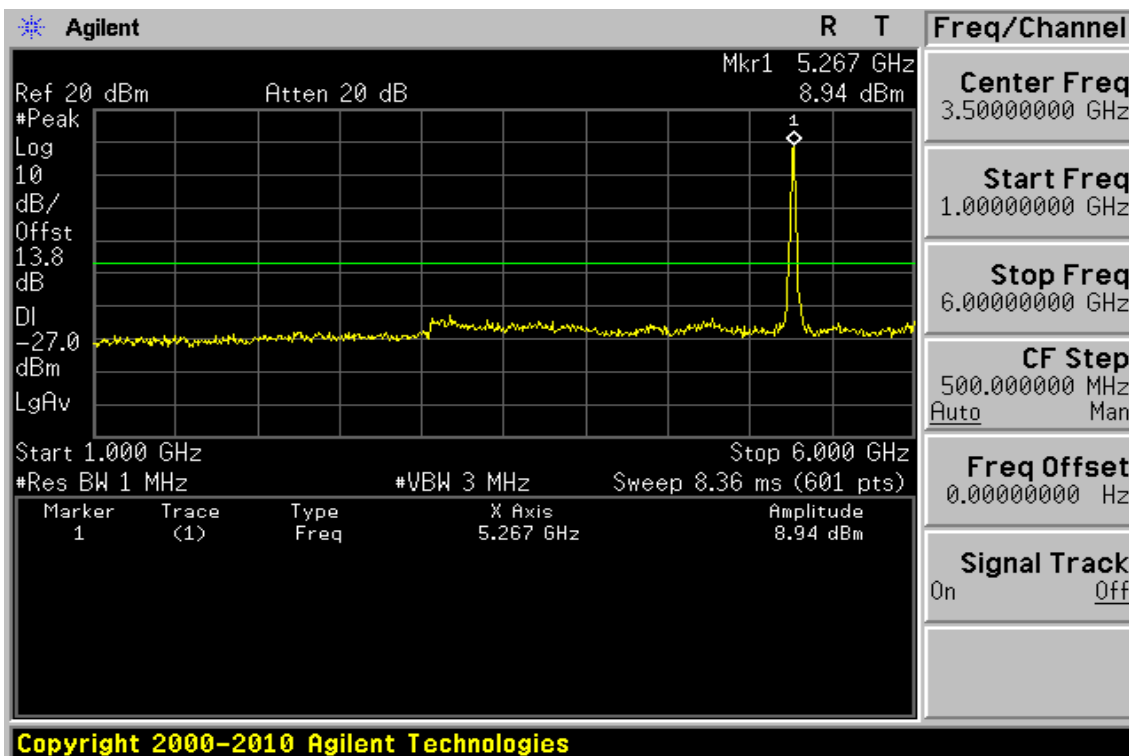
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**802.11n HT20, 5250~5350 MHz**  
**Ch Low 30MHz – 1GHz (5260 MHz)**



**Ch Low 1GHz – 6GHz**

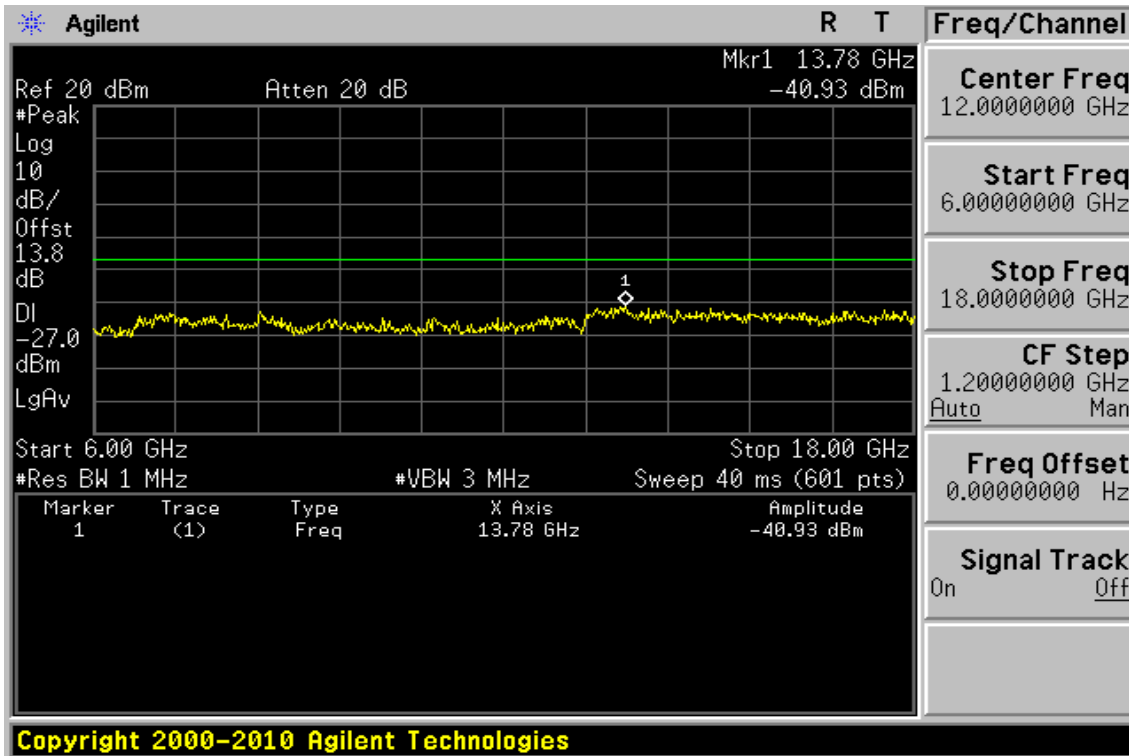


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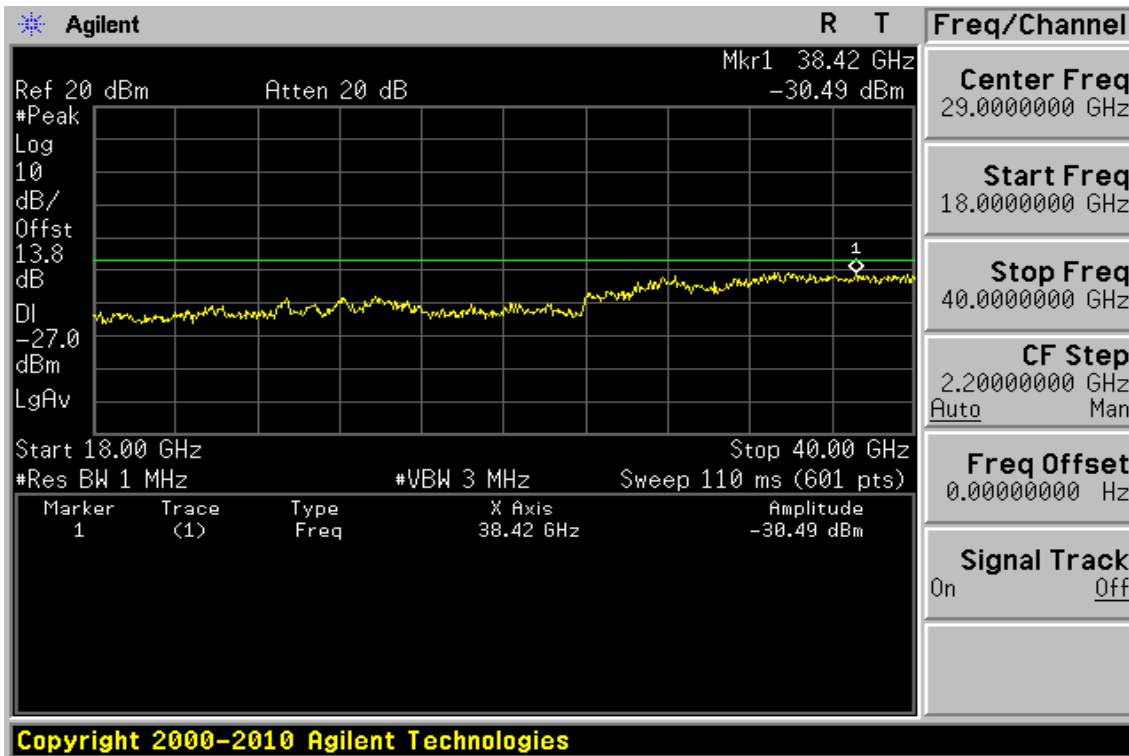
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**Ch Low 6GHz – 18GHz**



**Ch Low 18GHz – 40GHz**

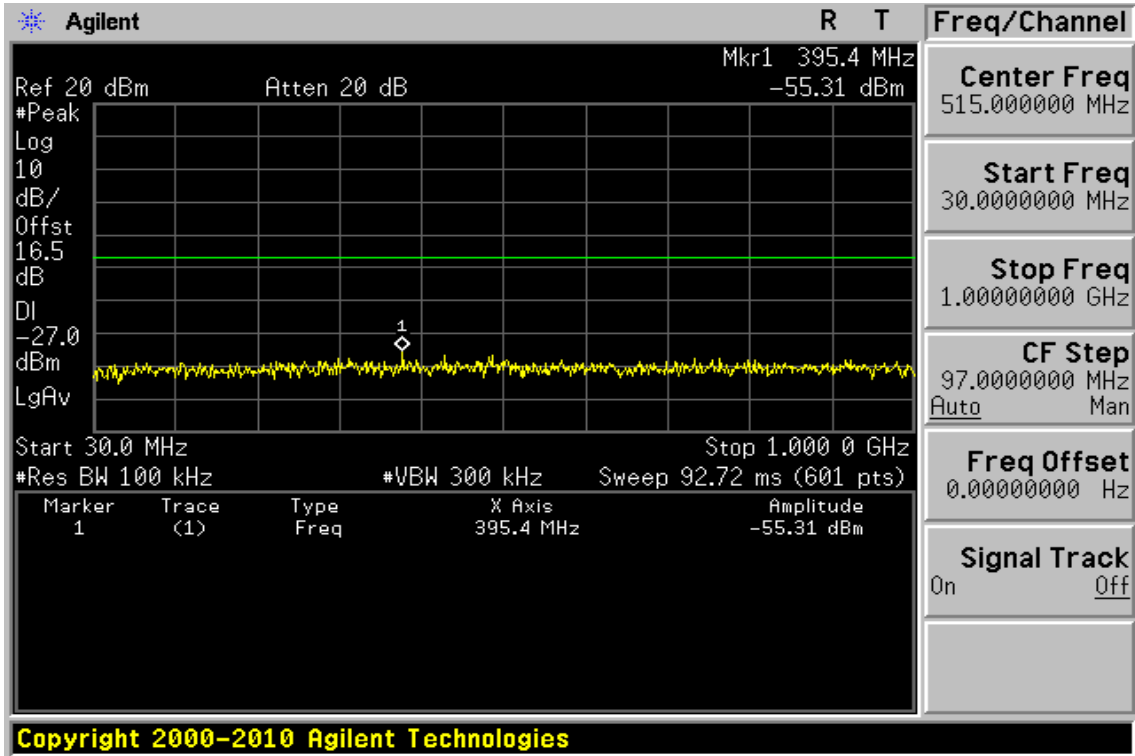


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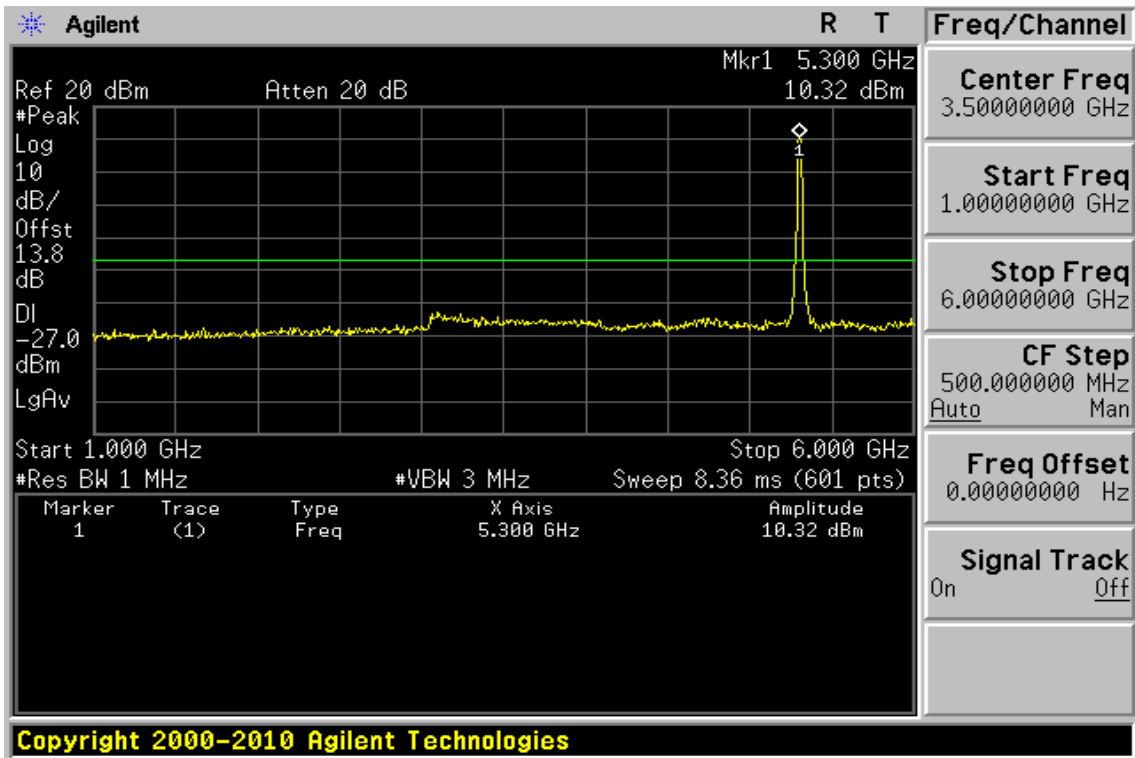
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**Ch Mid 30MHz – 1GHz (5300 MHz)**



**Ch Mid 1GHz – 6GHz**

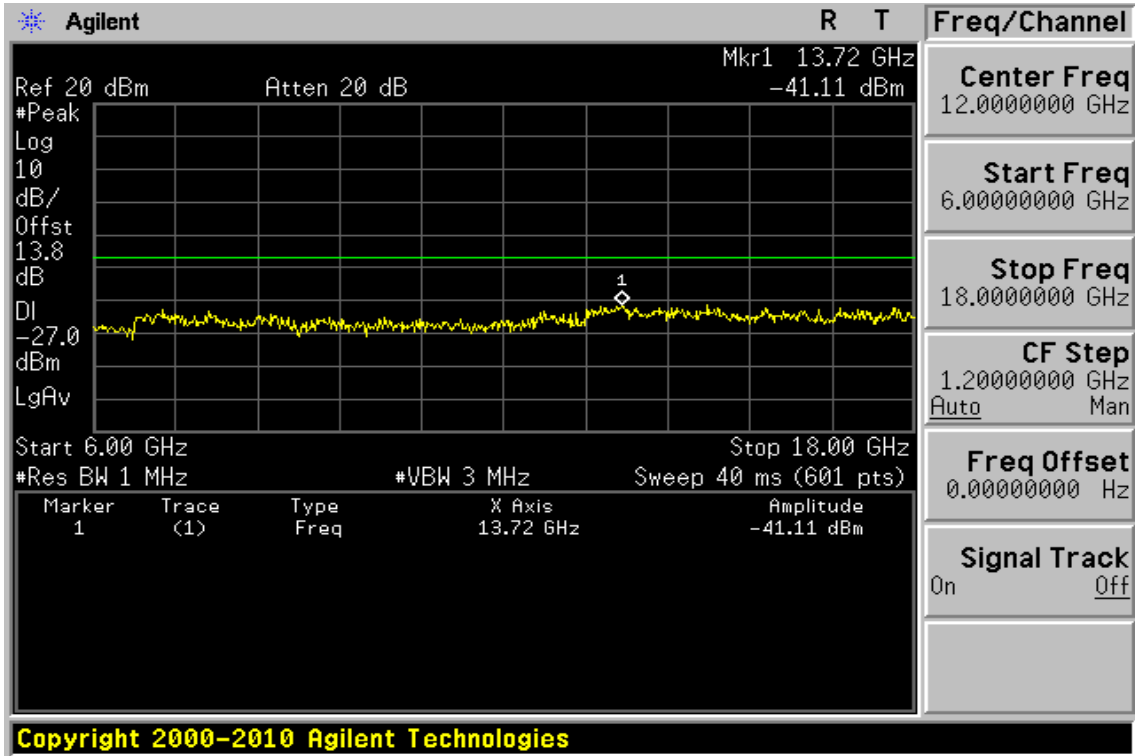


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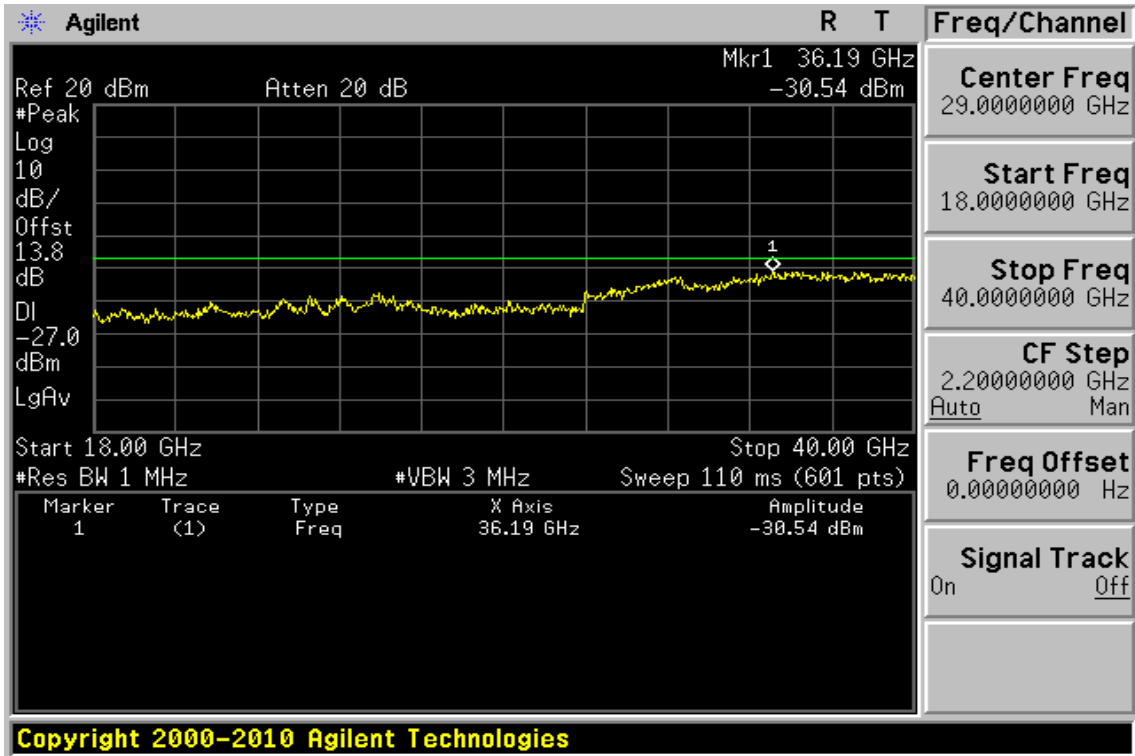
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Ch Mid 6GHz – 18GHz



Ch Mid 18GHz – 40GHz



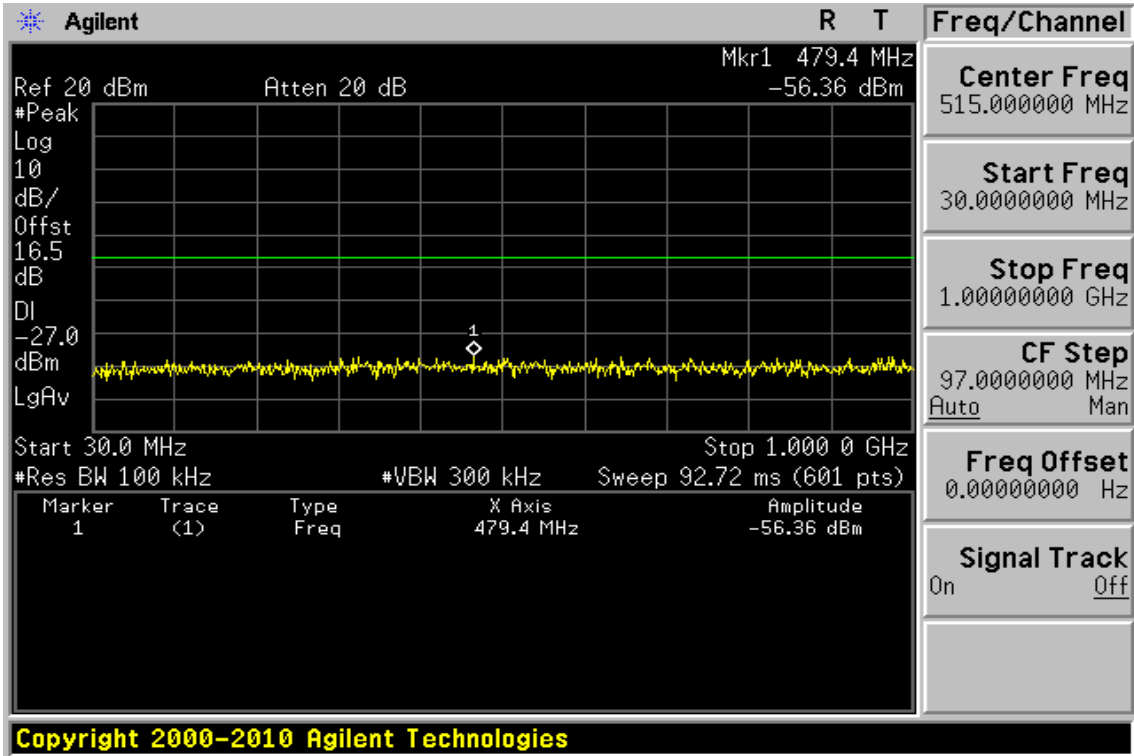
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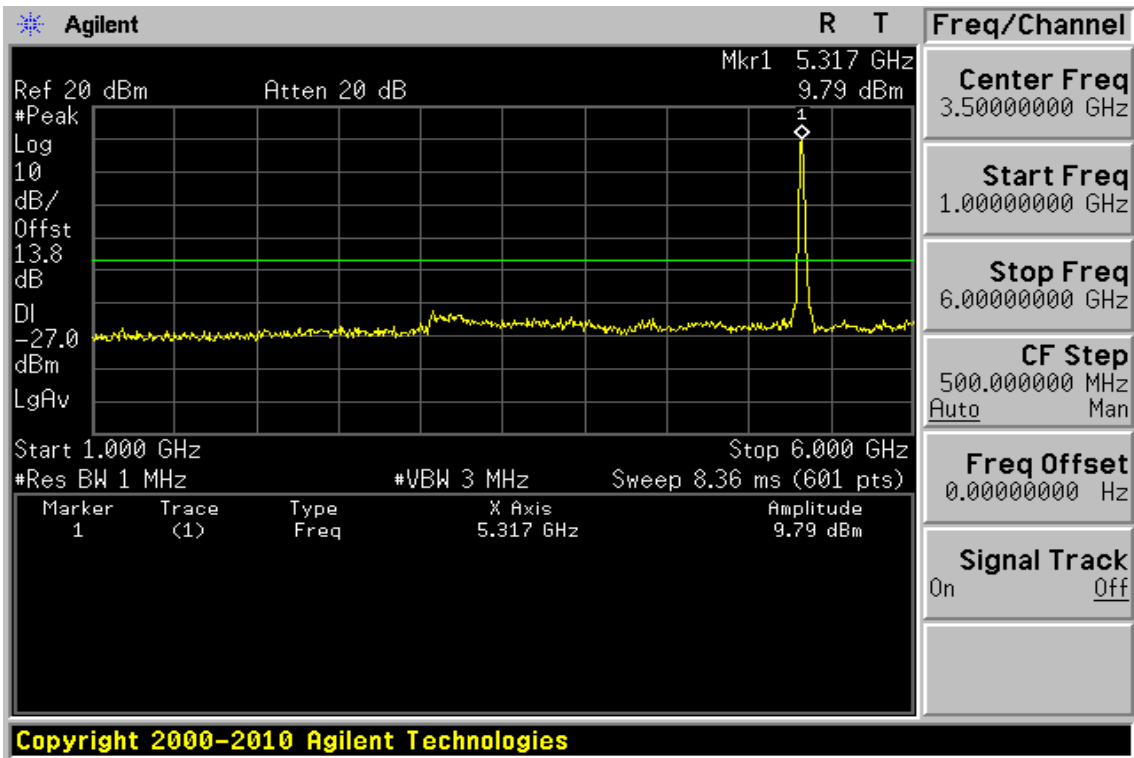
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**Ch High 30MHz – 1GHz (5320 MHz)**



**Ch High 1GHz – 6GHz**

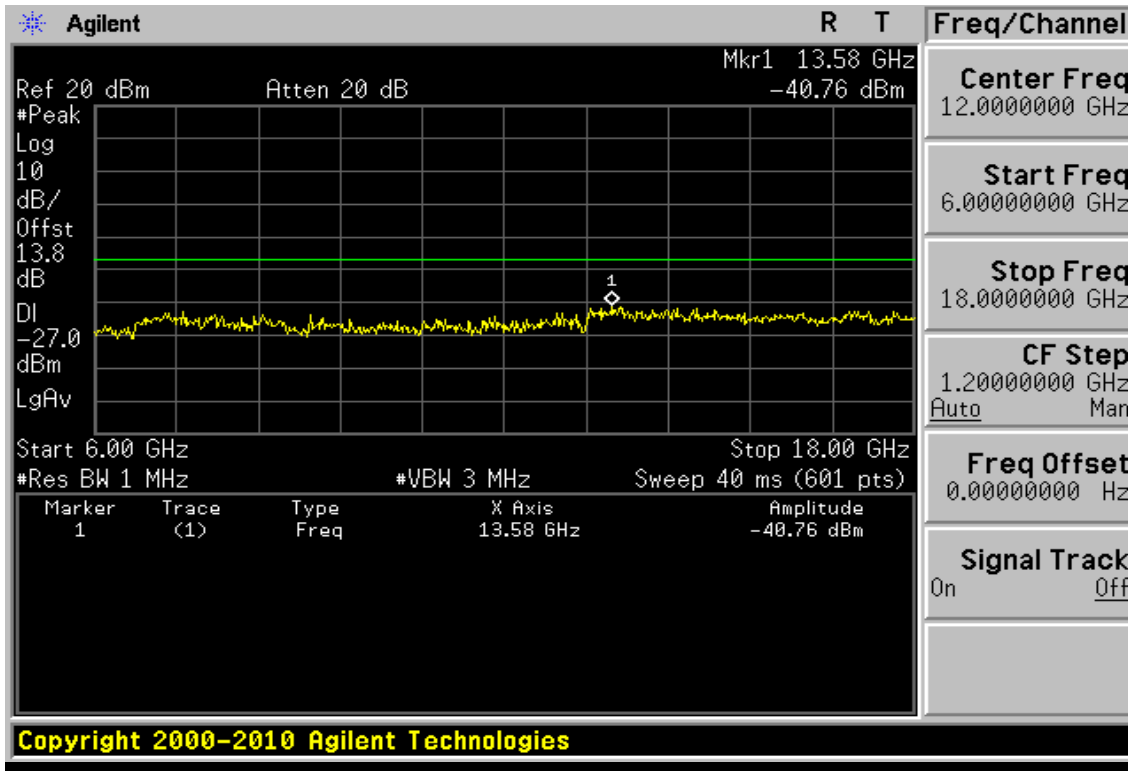


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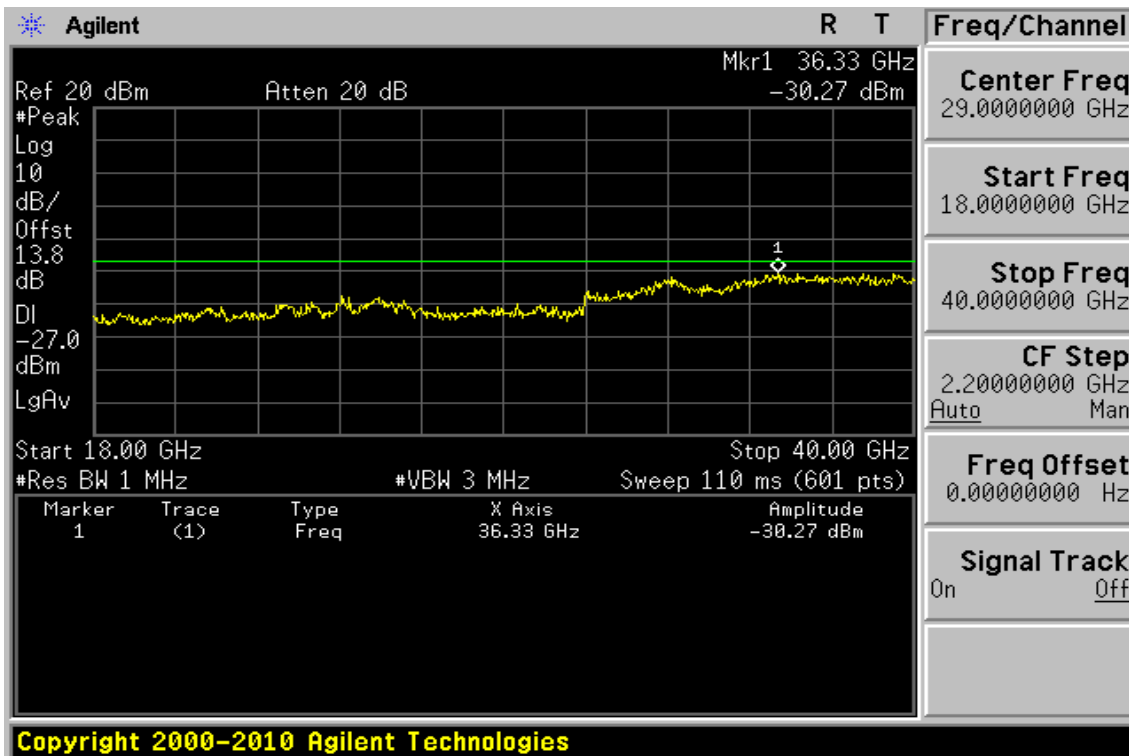
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### Ch High 6GHz – 18GHz



### Ch High 18GHz – 40GHz



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Fundamental Frequency 5220 MHz Engineer :Nick  
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-27.00	---
30-1000	S	-56.62	-27.00	29.62
10440.00	H	---	-27.00	---
15660.00	H	---	-27.00	---
17700.00	H	-40.96	-27.00	13.96
20880.00	H	---	-27.00	---
26100.00	H	---	-27.00	---
31320.00	H	---	-27.00	---
36540.00	H	---	-27.00	---
37620.00	S	-30.16	-27.00	3.16

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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Fundamental Frequency 5240 MHz Engineer :Nick  
 Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-27.00	---
30-1000	S	-56.33	-27.00	29.33
10480.00	H	---	-27.00	---
13260.00	S	-40.42	-27.00	13.42
15720.00	H	---	-27.00	---
20960.00	H	---	-27.00	---
26200.00	H	---	-27.00	---
31440.00	H	---	-27.00	---
36680.00	H	---	-27.00	---
37980.00	S	-30.06	-27.00	3.06

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
 "---" : denotes Noise Floor.

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Fundamental Frequency 5260 MHz Engineer :Nick  
 Operation Mode :TX Low

Freq (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	--	-27.00	--
30-1000	S	-56.76	-27.00	29.76
10520.00	H	--	-27.00	--
13780.00	H	-40.93	-27.00	13.93
15780.00	H	--	-27.00	--
21040.00	H	--	-27.00	--
26300.00	H	--	-27.00	--
31560.00	H	--	-27.00	--
36820.00	H	--	-27.00	--
38420.00	S	-30.49	-27.00	3.49

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
 "---" : denotes Noise Floor. Ref: Reference Signal

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Fundamental Frequency 5320 MHz Engineer :Nick  
 Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-27.00	---
30-1000	S	-56.36	-27.00	29.36
10640.00	H	---	-27.00	---
13580.00	S	-40.76	-27.00	13.76
15960.00	H	---	-27.00	---
21280.00	H	---	-27.00	---
26600.00	H	---	-27.00	---
31920.00	H	---	-27.00	---
36330.00	S	-30.27	-27.00	3.27
37240.00	H	---	-27.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
 "----" : denotes Noise Floor.

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



**Band Edges Test Data CH 5350**



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**802.11n\_HT20 – Band Edge falling into un-restricted band**

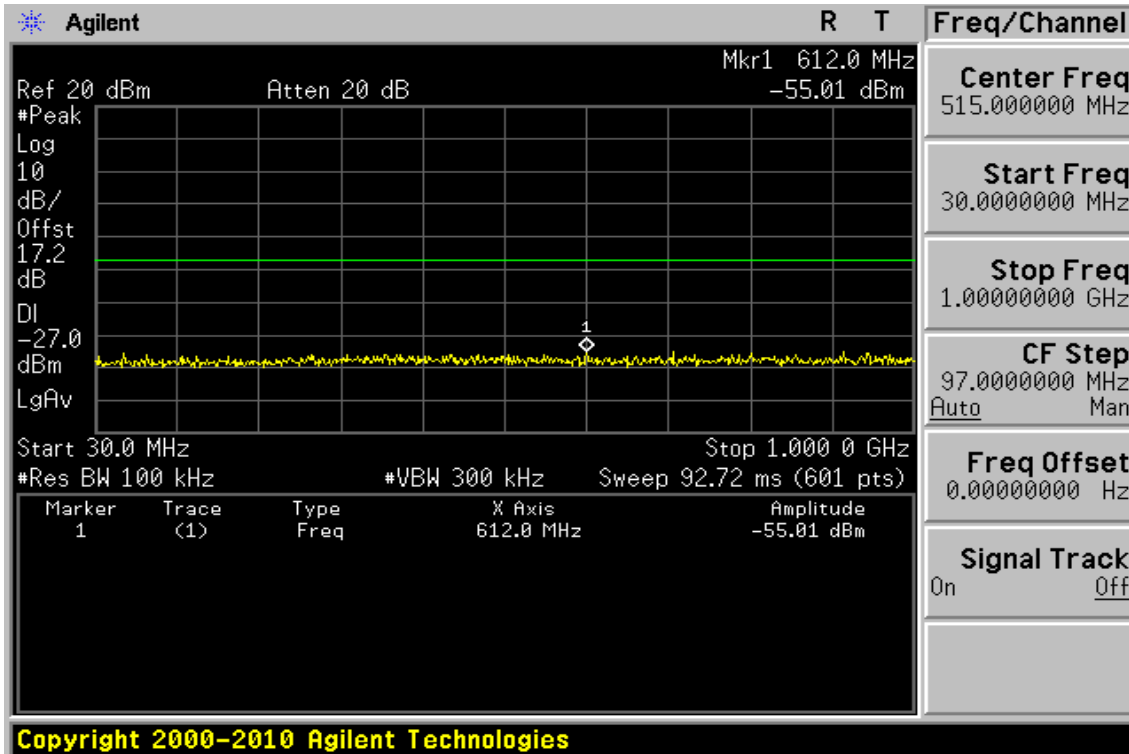
Frequency (GHz)	Results (dBm)	Limit (dBm)	Verdict
5.150	-37.17	-27.00	Pass
5.350	-36.08	-27.00	Pass

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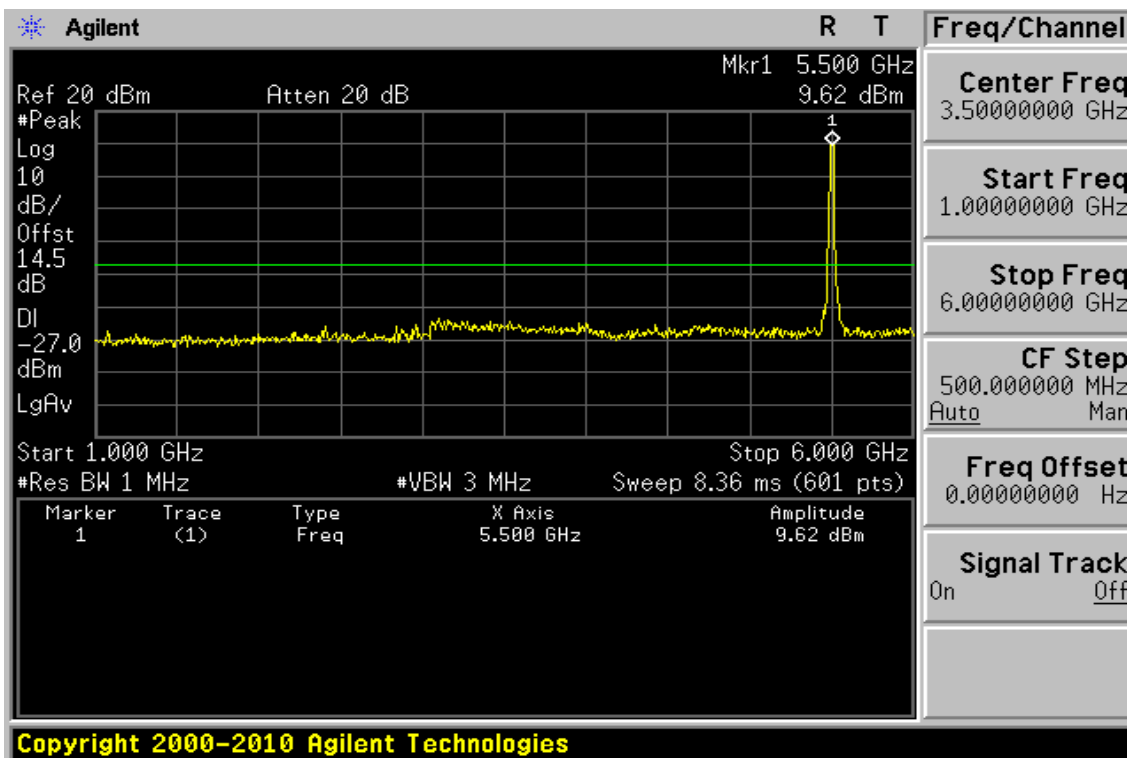
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**802.11n HT20, 5470~5725 MHz**  
**Ch Low 30MHz – 1GHz (5500 MHz)**



**Ch Low 1GHz – 6GH**

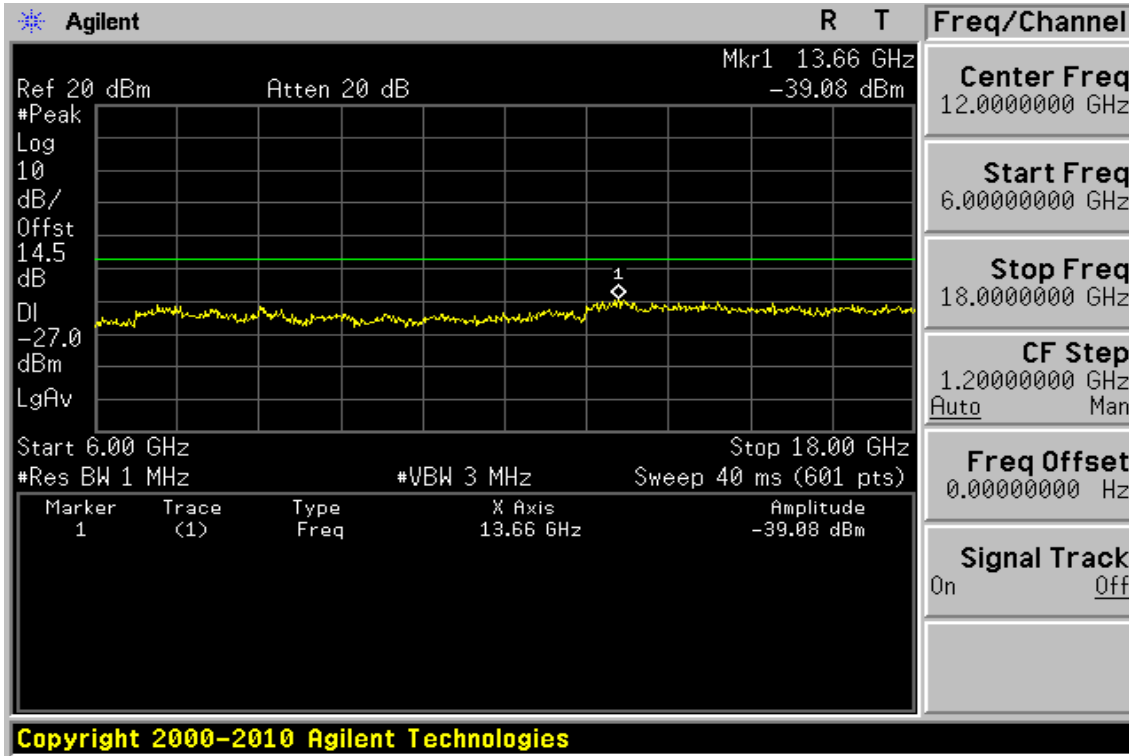


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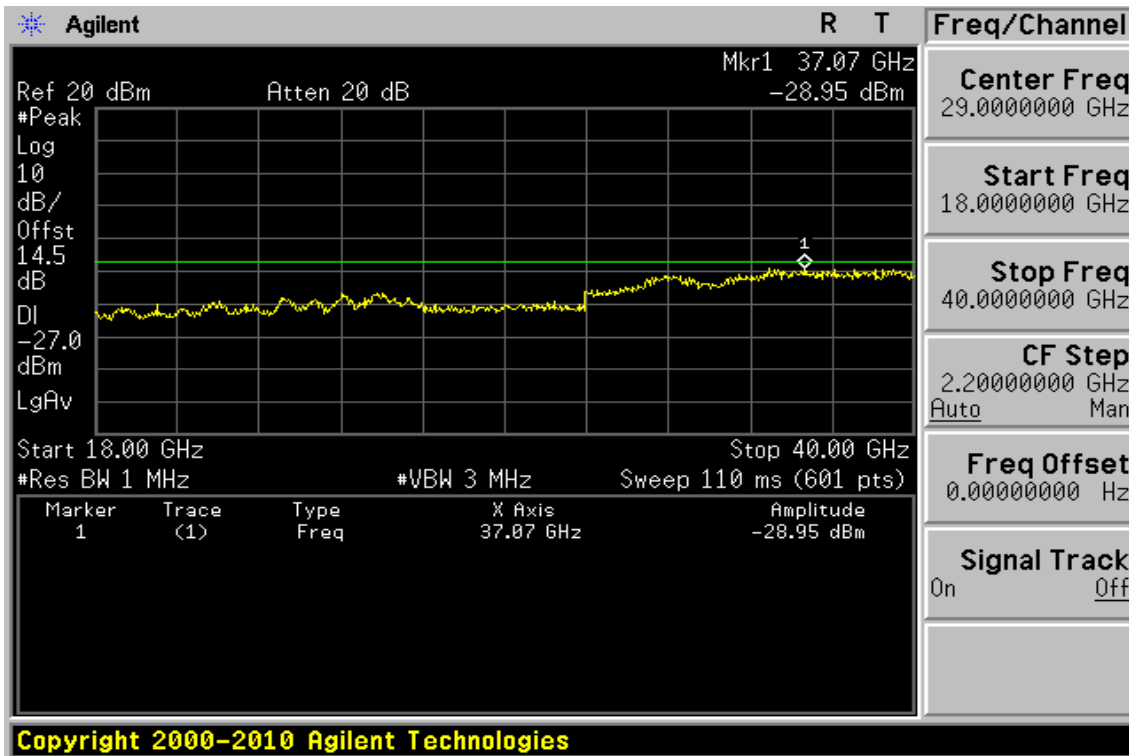
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Ch Low 6GHz – 18GHz



Ch Low 18GHz – 40GHz

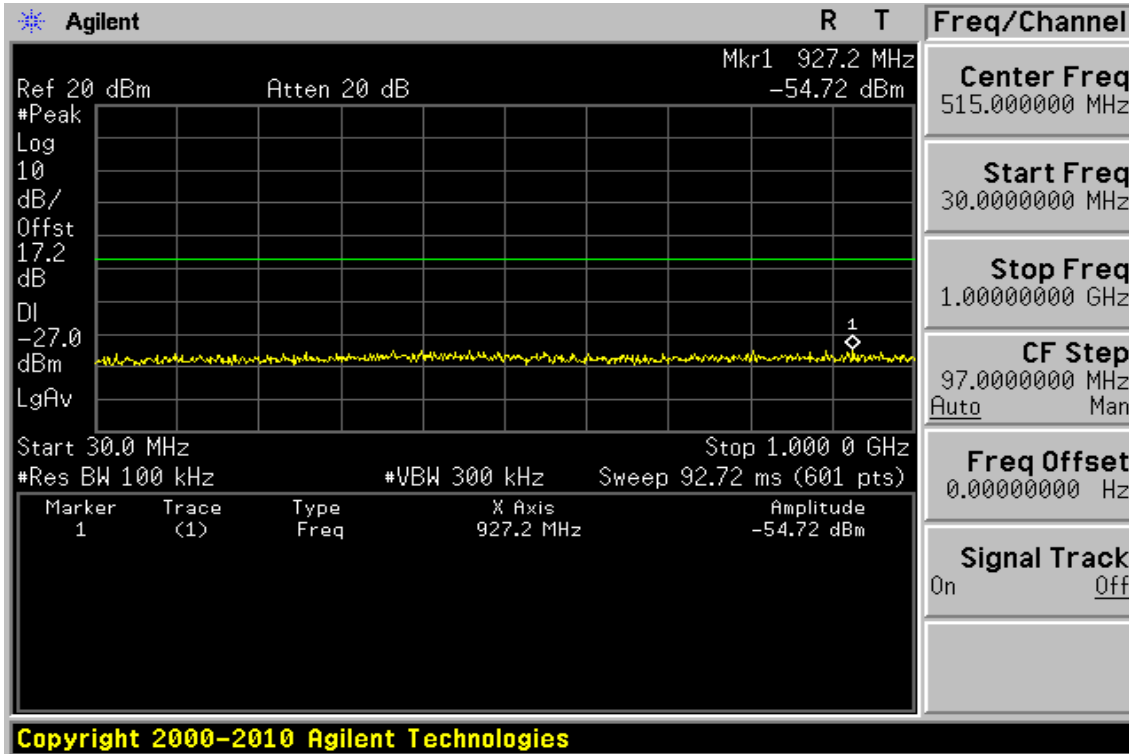


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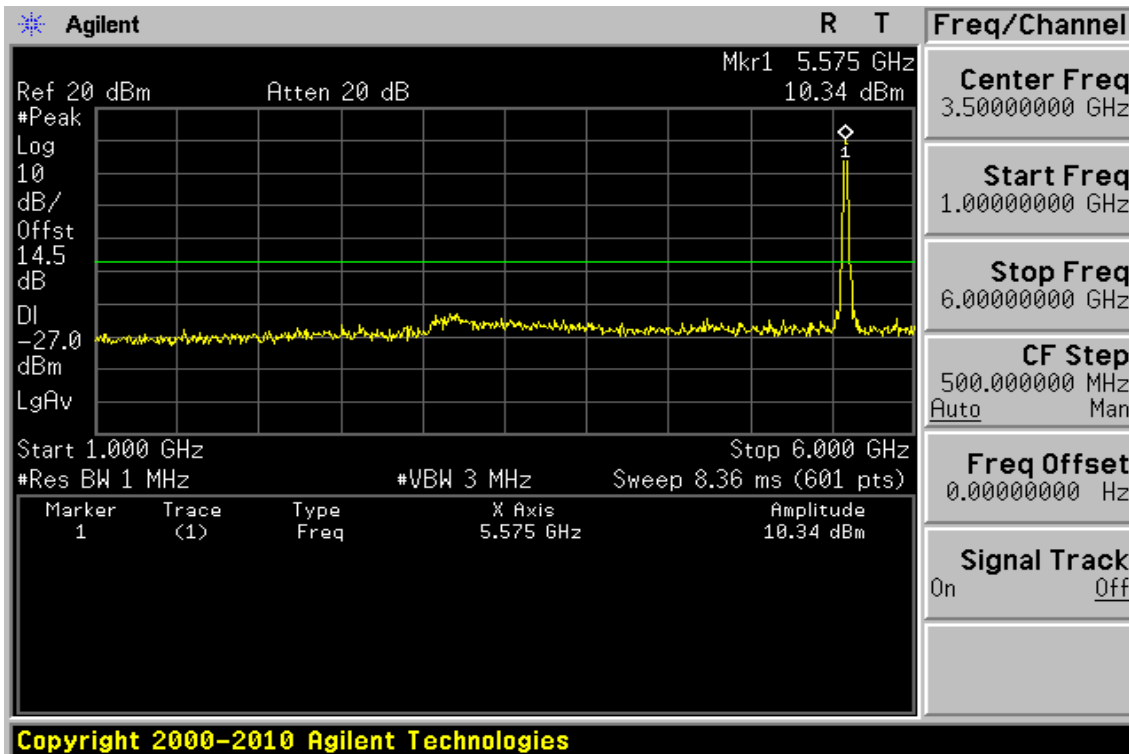
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**Ch Mid 30MHz – 1GHz (5580 MHz)**



**Ch Mid 1GHz – 6GHz**

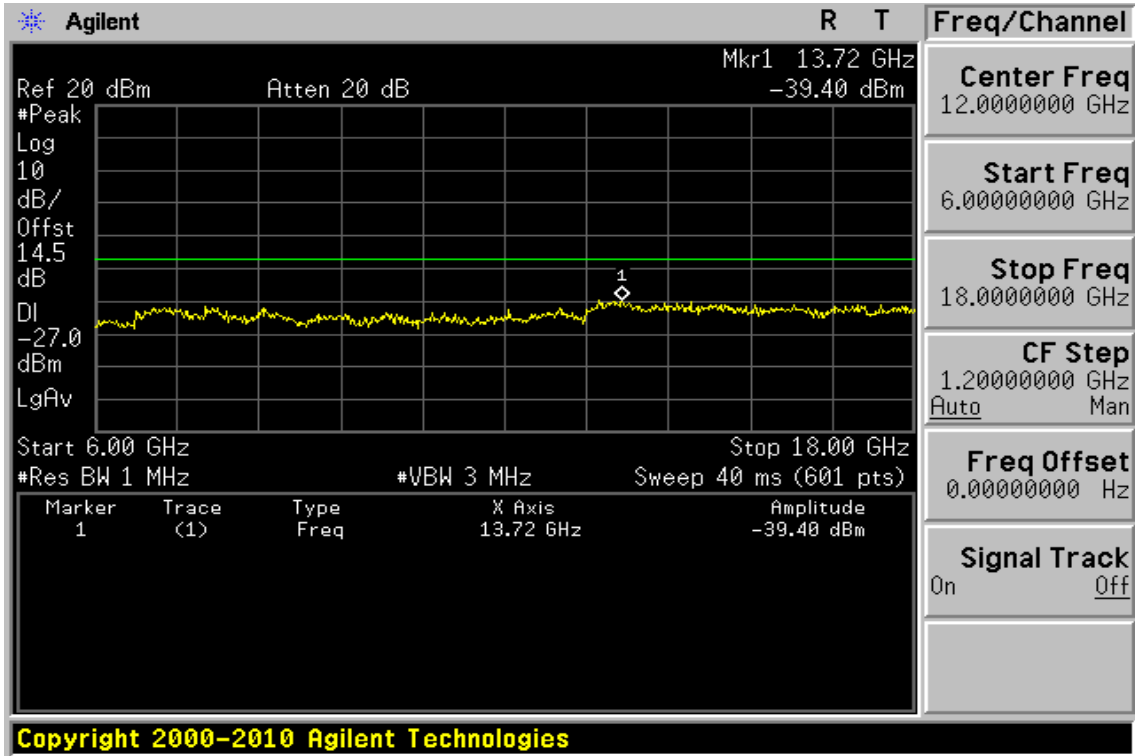


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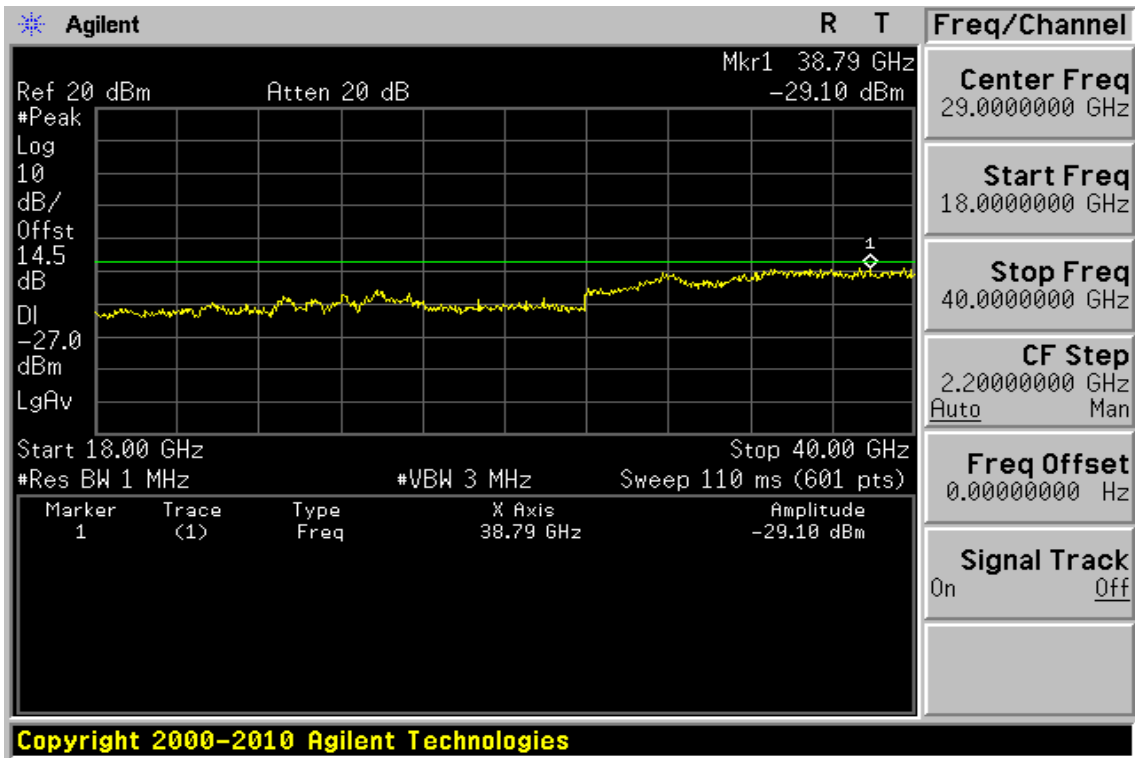
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Ch Mid 6GHz – 18GHz



Ch Mid 18GHz – 40GHz

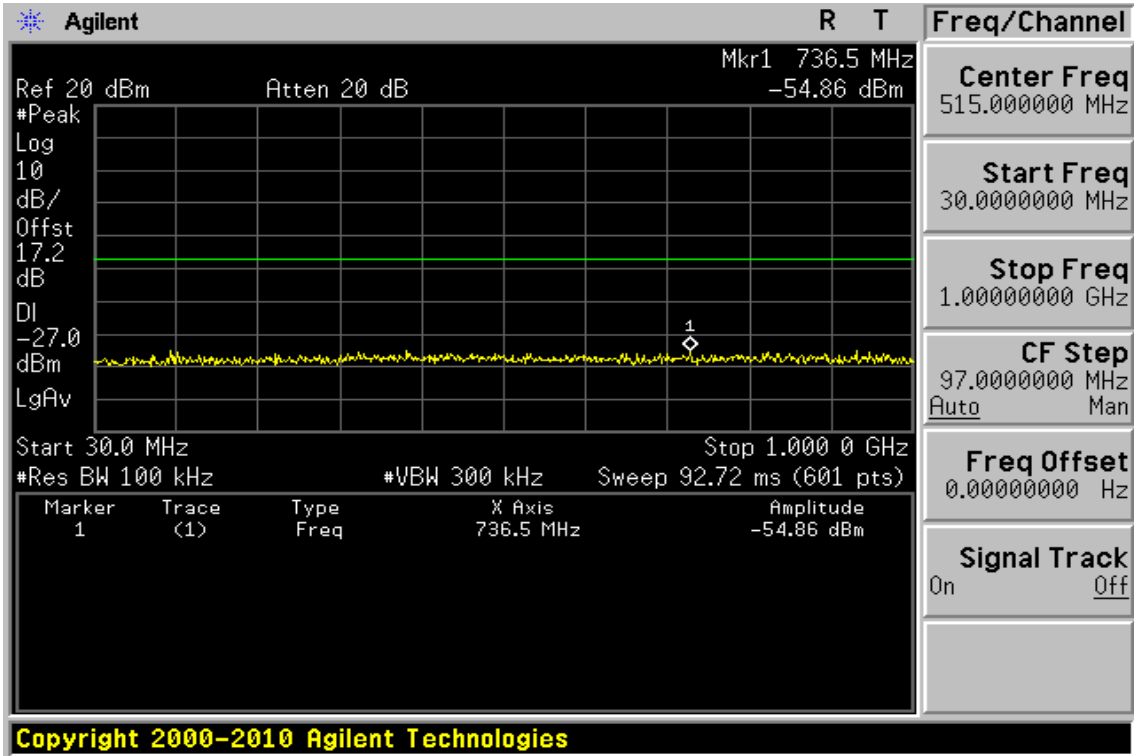


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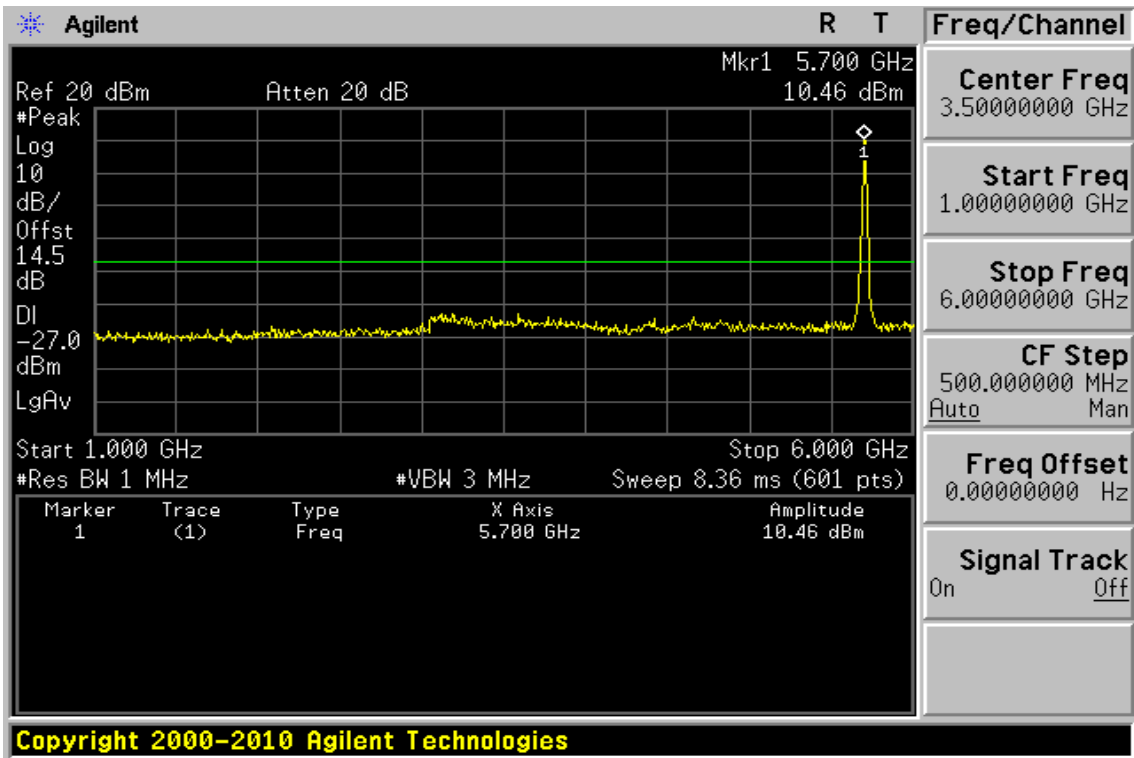
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**Ch High 30MHz – 1GHz (5700 MHz)**



**Ch High 1GHz – 6GHz**

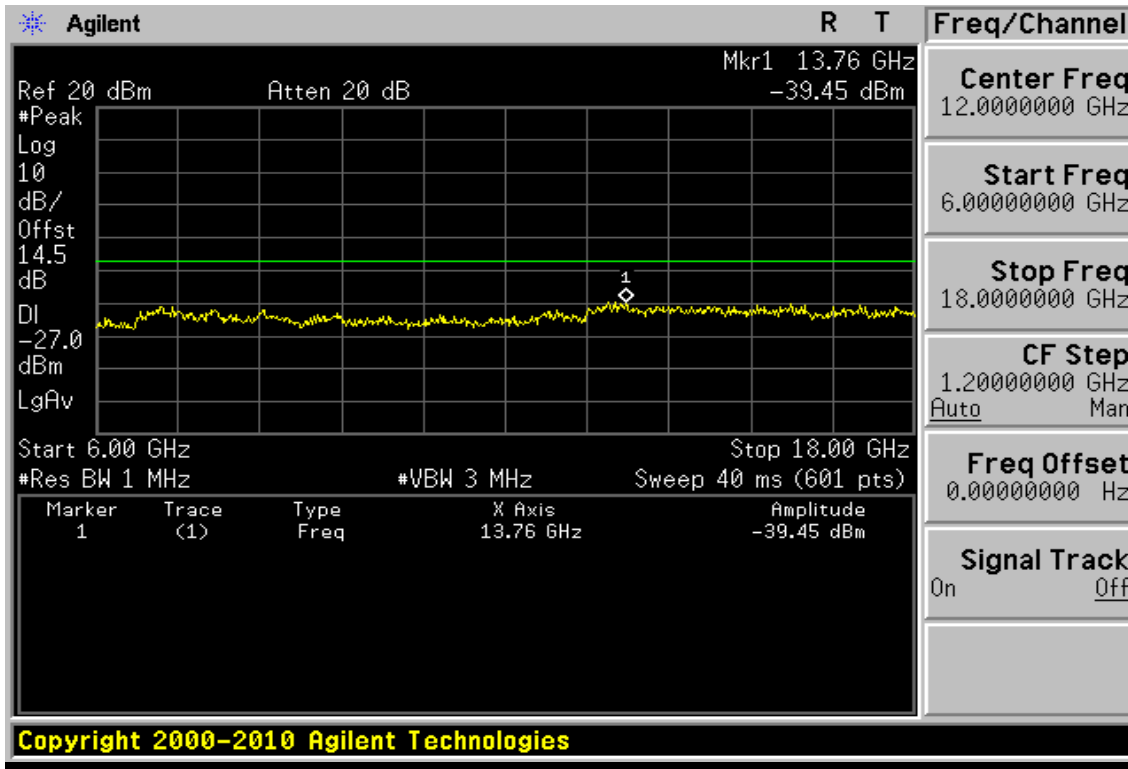


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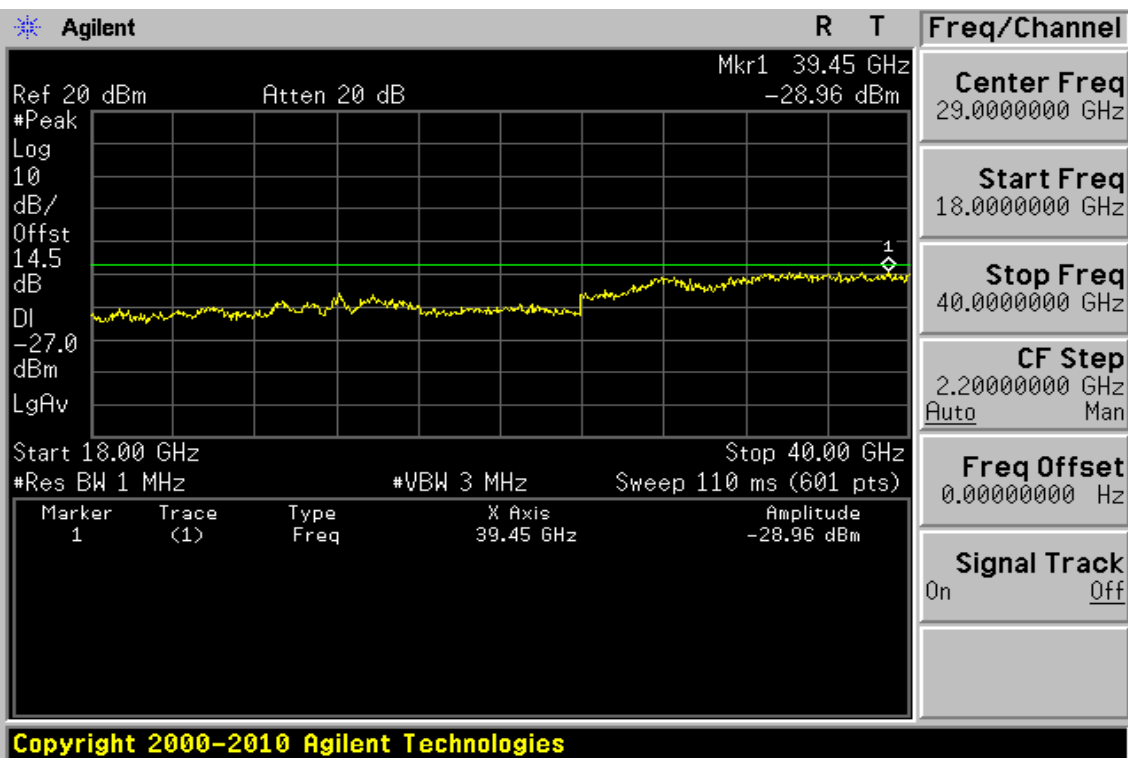
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Ch High 6GHz – 18GHz



Ch High 18GHz – 40GHz



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**Out of Band emission at antenna terminals – 802.11n HT20**

Fundamental Frequency 5500 MHz Engineer :Nick  
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-27.00	---
30-1000	S	-55.01	-27.00	28.01
11000.00	H	---	-27.00	---
13660.00	S	-39.08	-27.00	12.08
16500.00	H	---	-27.00	---
22000.00	H	---	-27.00	---
27500.00	H	---	-27.00	---
33000.00	H	---	-27.00	---
37070.00	S	-28.95	-27.00	1.95
38500.00	H	---	-27.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor. Ref: Reference Signal

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Fundamental Frequency 5580 MHz Engineer :Nick  
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-27.00	--
30-1000	S	-54.72	-27.00	27.72
11160.00	H	---	-27.00	--
13720.00	S	-39.4	-27.00	12.40
16740.00	H	---	-27.00	--
22320.00	H	---	-27.00	--
27900.00	H	---	-27.00	--
33480.00	H	---	-27.00	--
38790.00	H	-29.1	-27.00	2.10
39060.00	H	---	-27.00	--

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
 "---" : denotes Noise Floor.

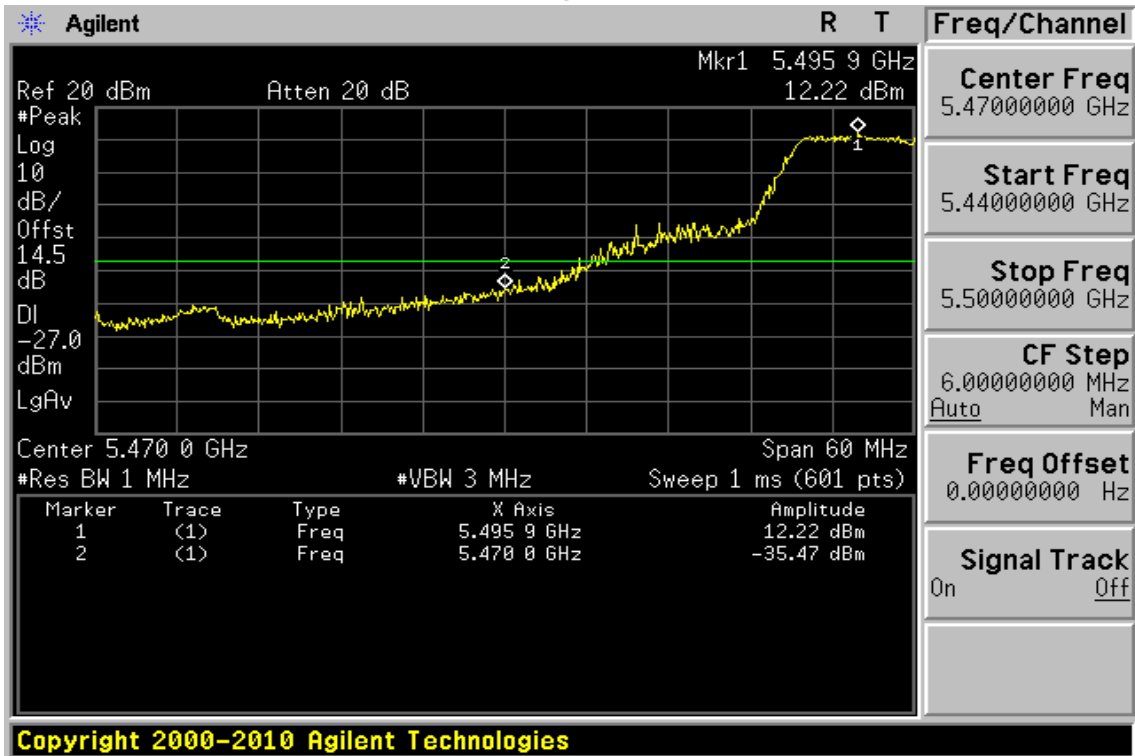
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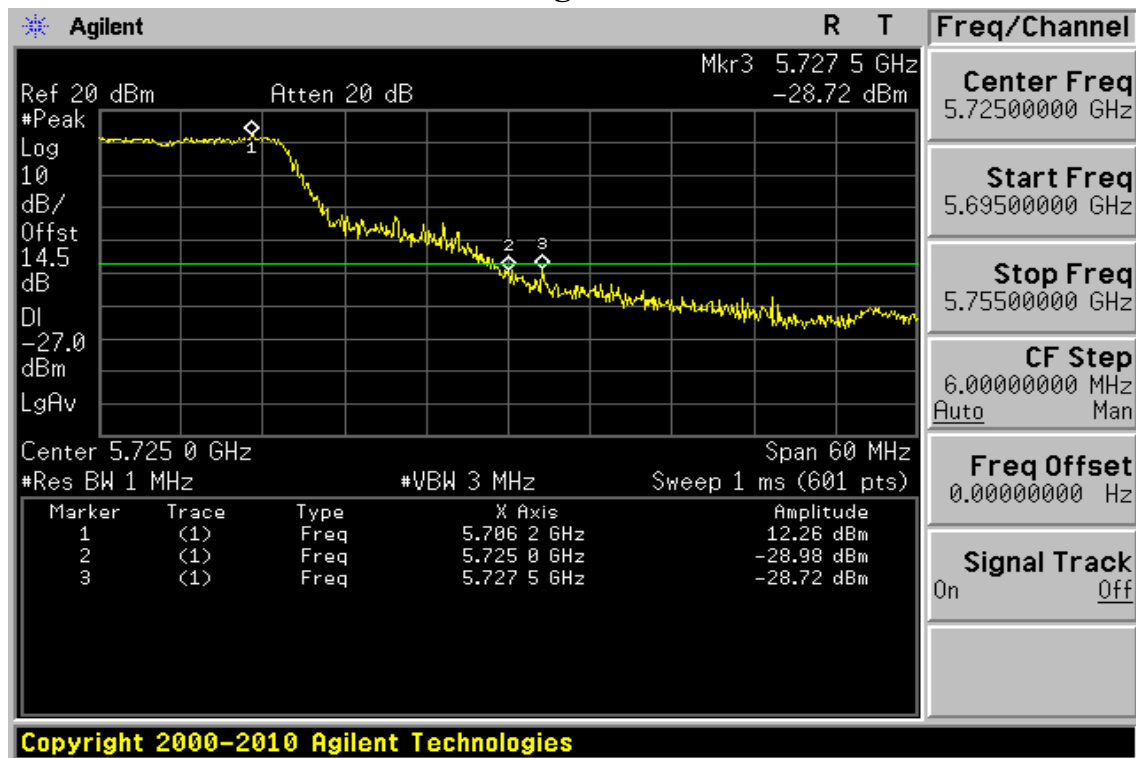
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802.11n HT20 5470~5725 MHz Band Edges Test Data CH 5500



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



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**802.11n\_HT20 – Band Edge falling into un-restricted band**

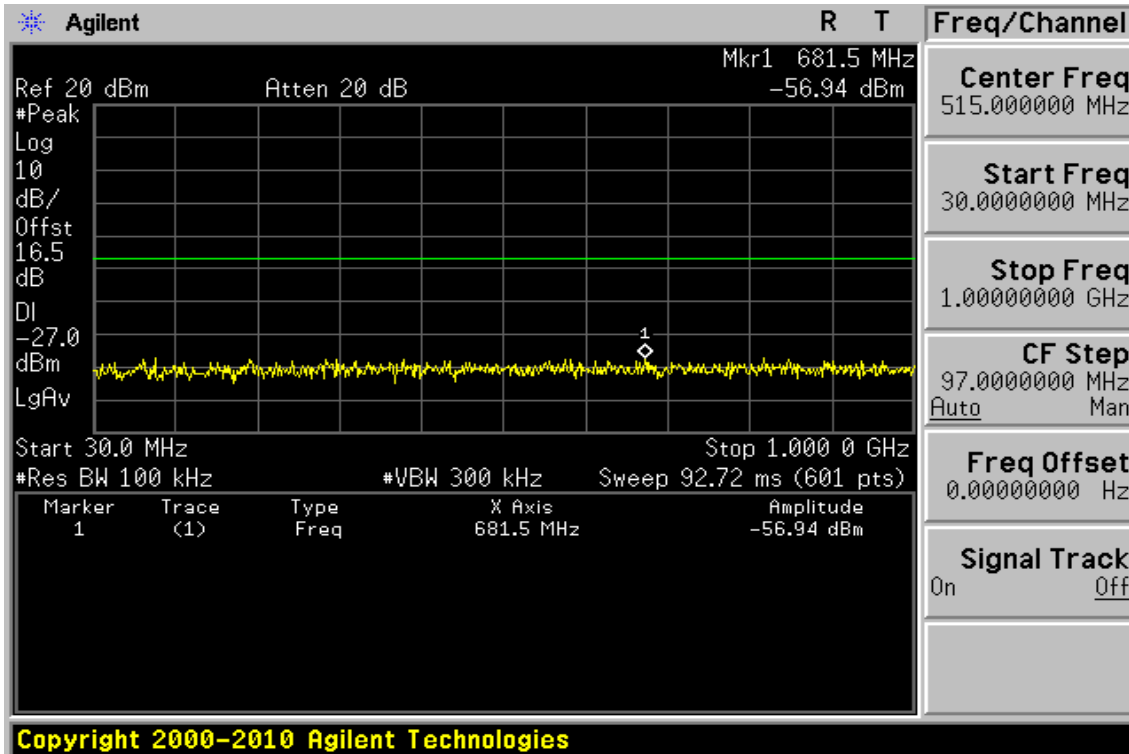
Frequency (GHz)	Results (dBm)	Limit (dBm)	Verdict
5.470	-35.47	-27.00	Pass
5.725	-28.98	-27.00	Pass

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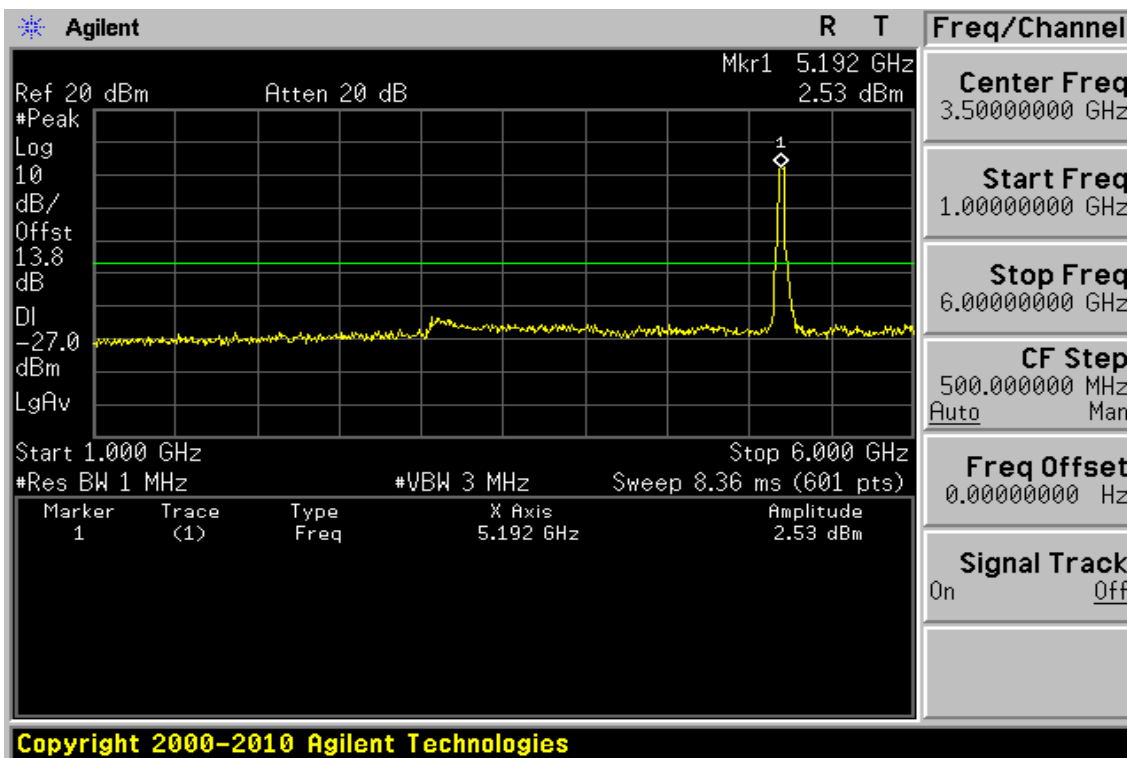
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**802.11n HT40, 5150~5250 MHz**  
**Ch Low 30MHz – 1GHz (5190 MHz)**



**Ch Low 1GHz – 6GHz**

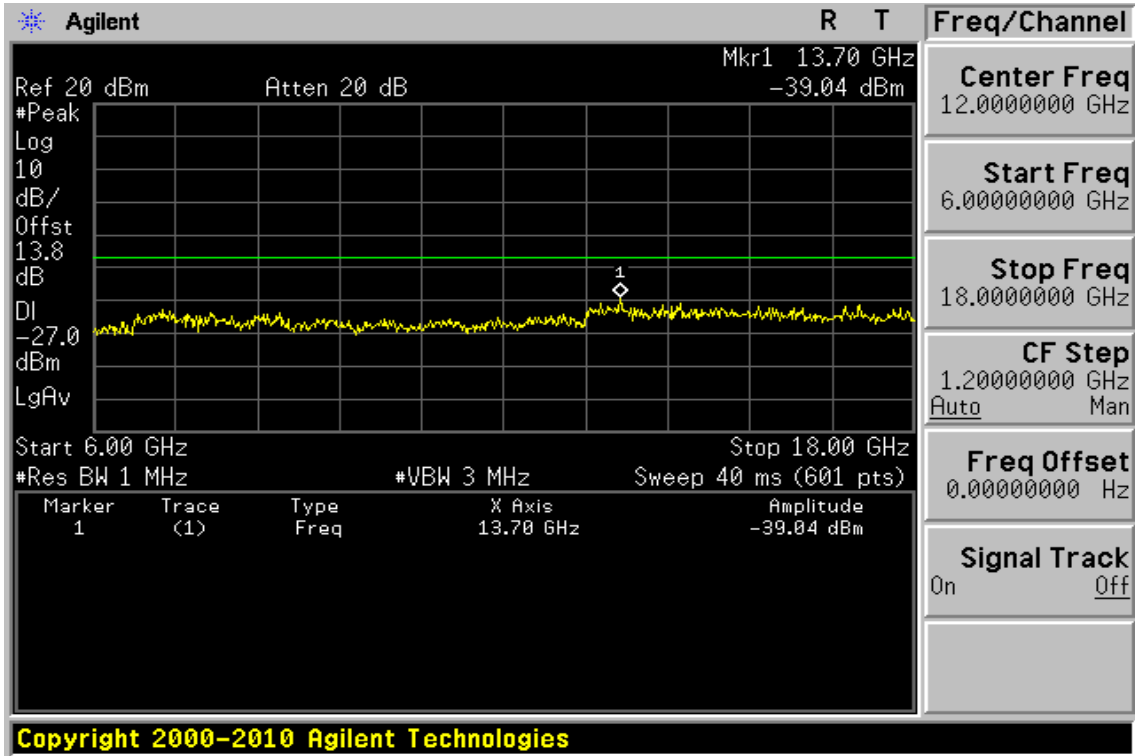


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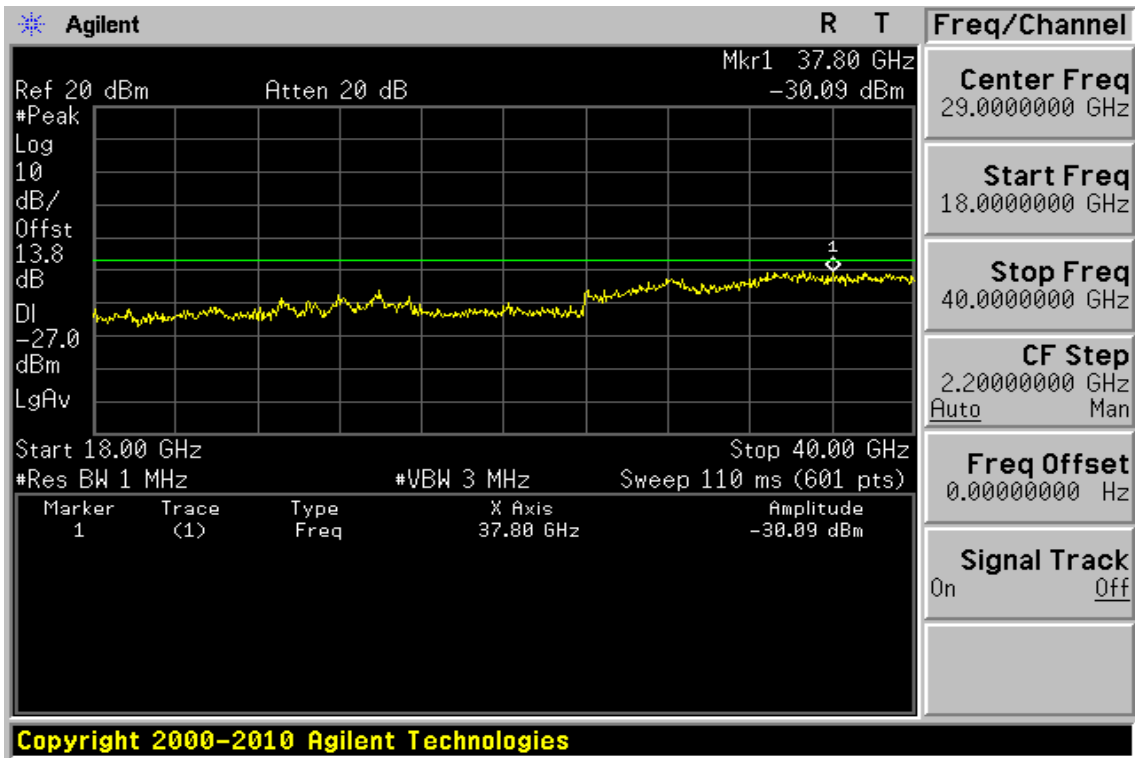
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**Ch Low 6GHz – 18GHz**



**Ch Low 18GHz – 40GHz**

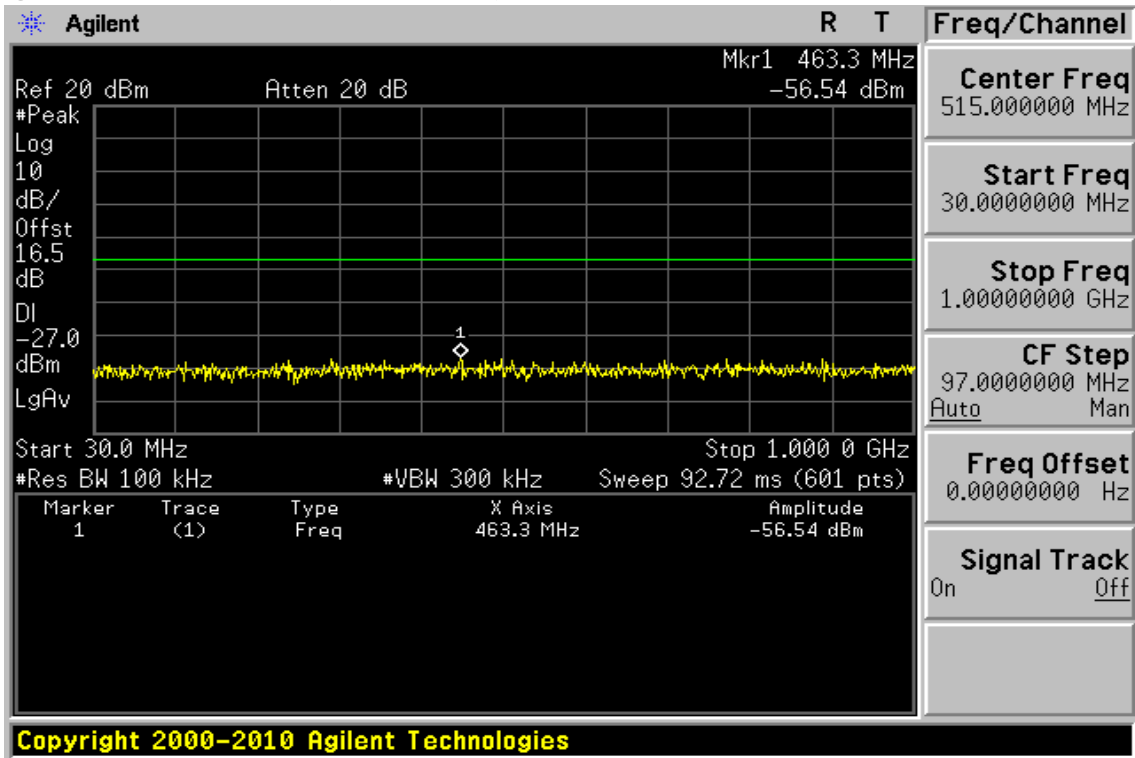


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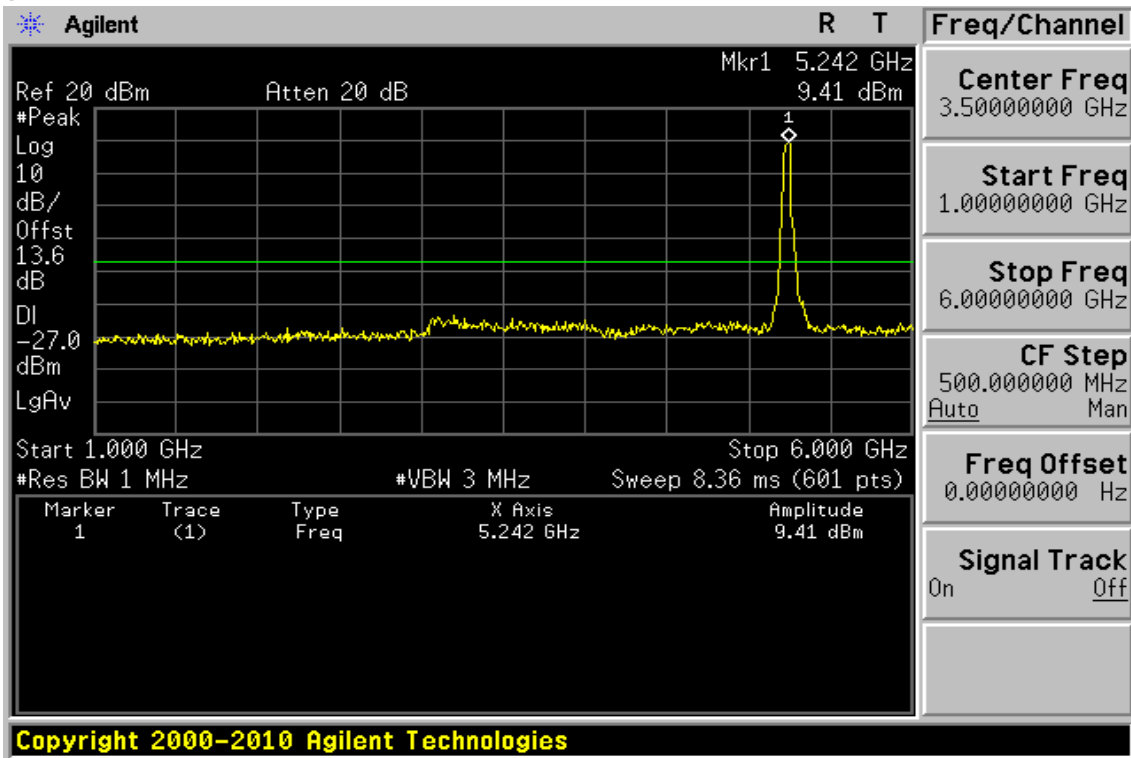
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**Ch High 30MHz – 1GHz (5230 MHz)**



**Ch High 1GHz – 6GHz**



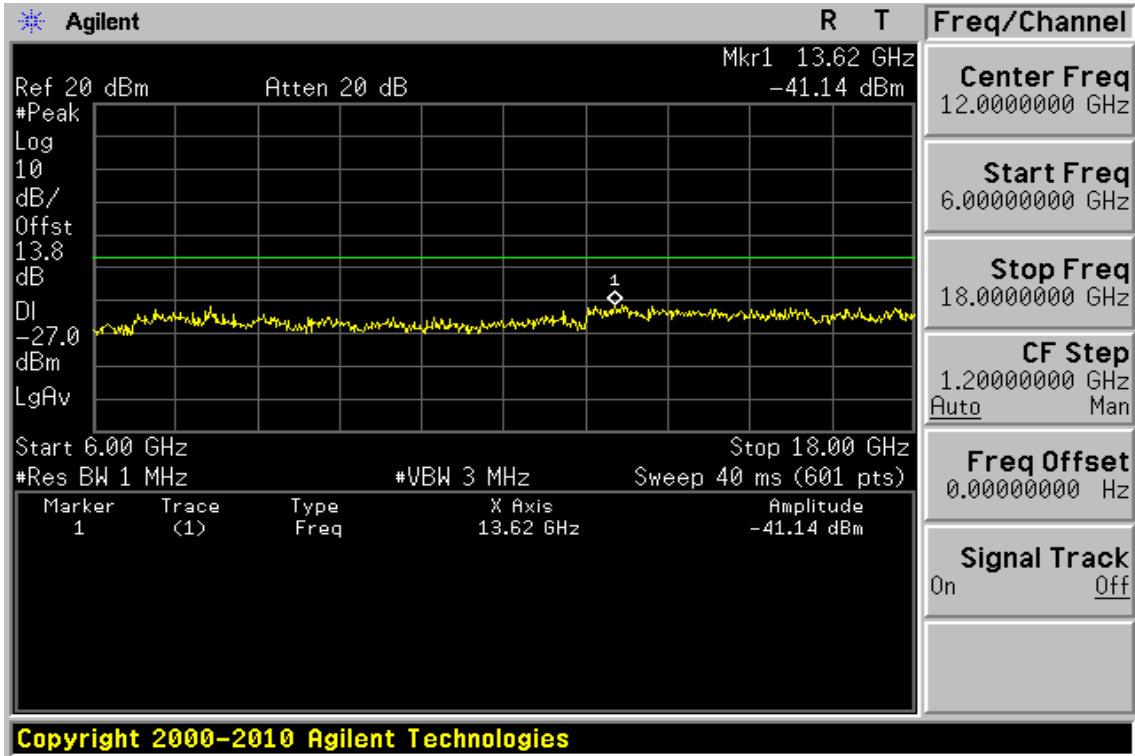
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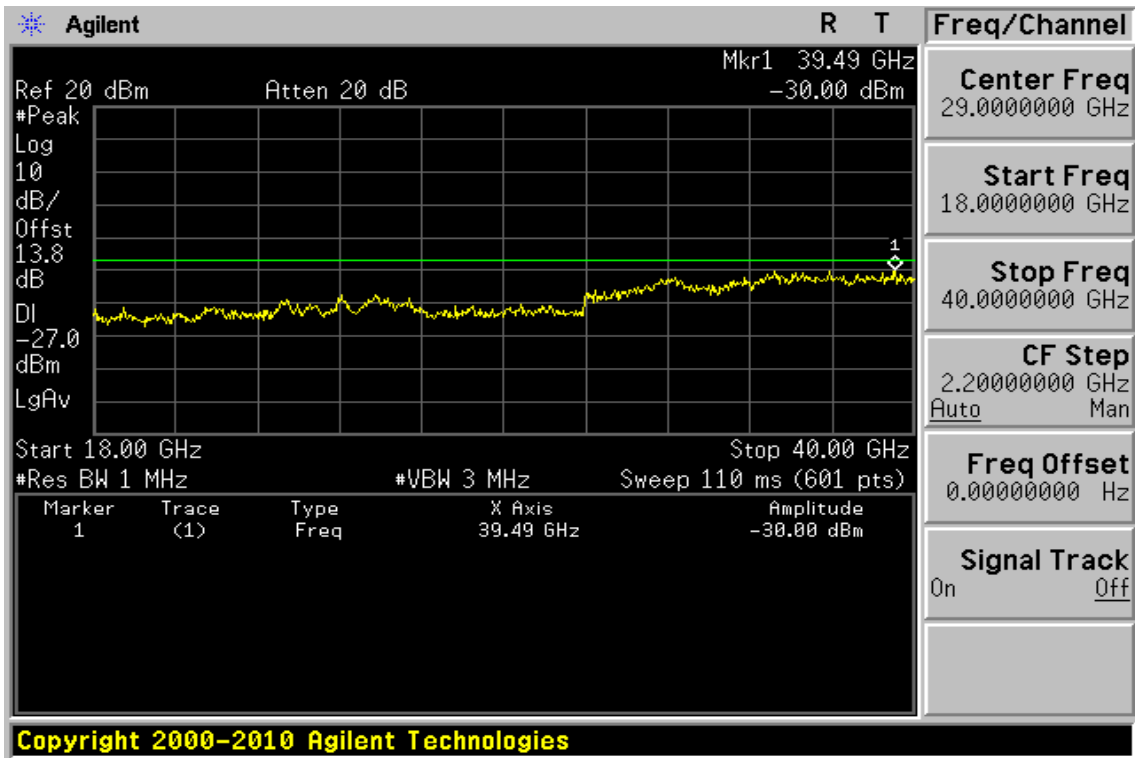
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### Ch High 6GHz – 18GHz



### Ch High 18GHz – 40GHz

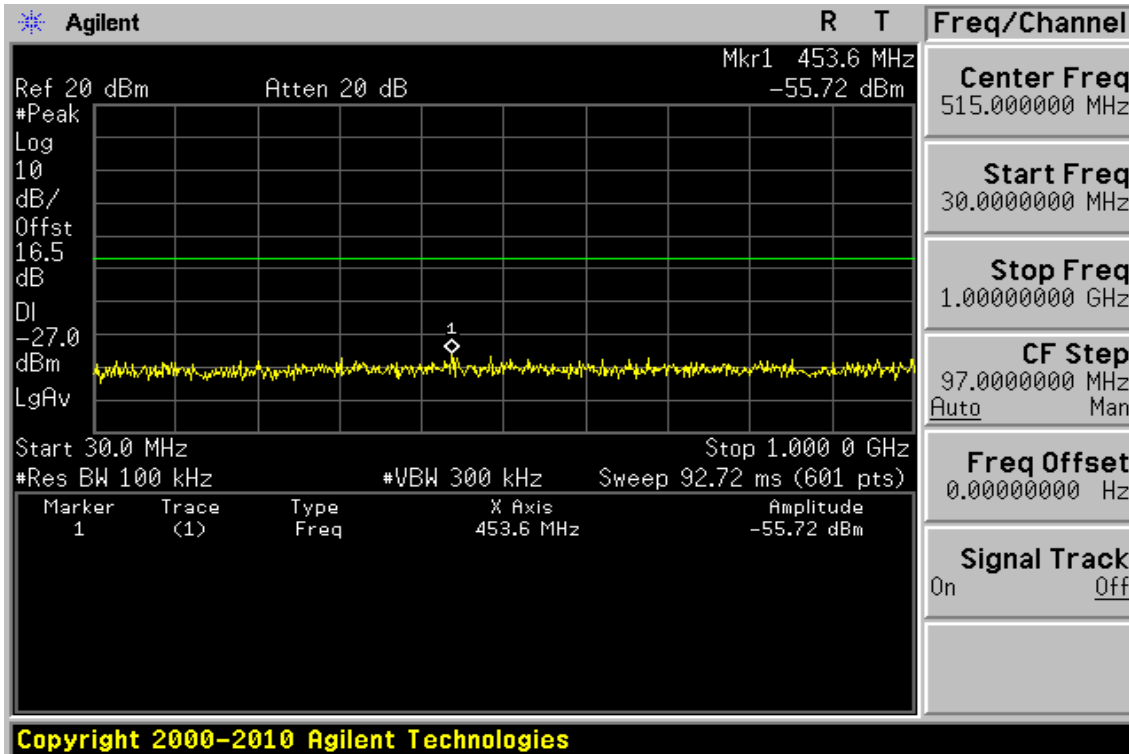


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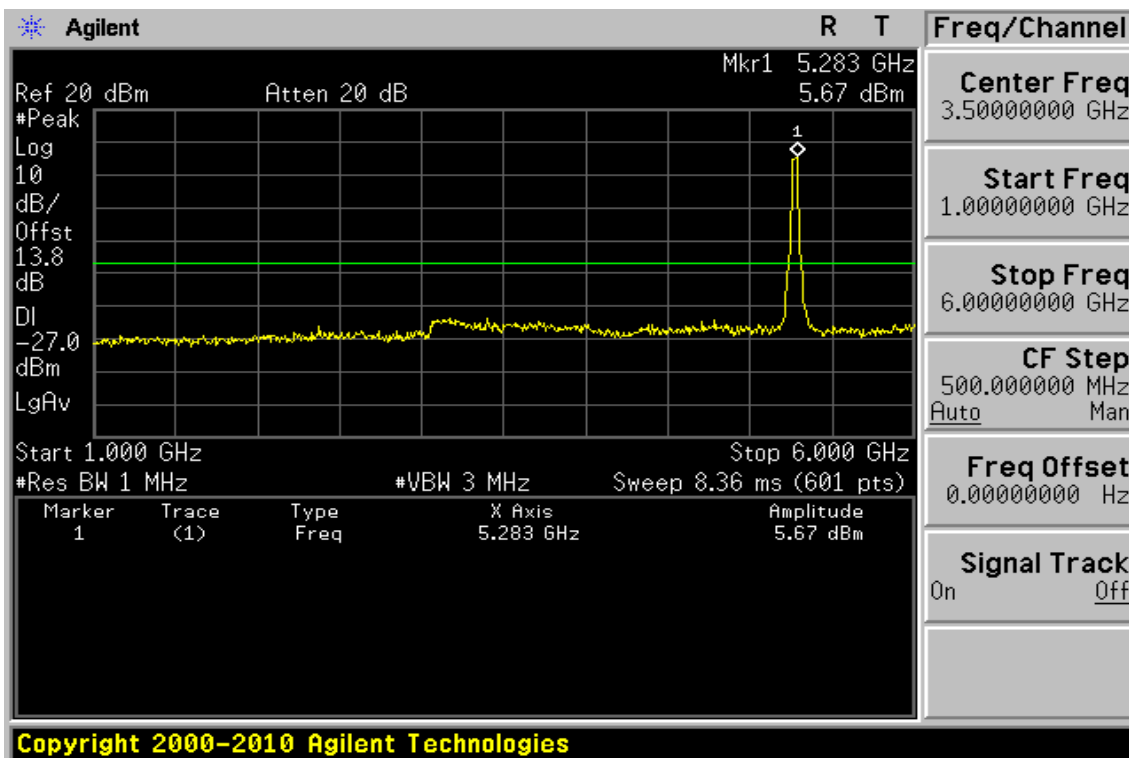
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**802.11n HT40, 5250~5350 MHz**  
**Ch Low 30MHz – 1GHz (5270 MHz)**



**Ch Low 1GHz – 6GHz**

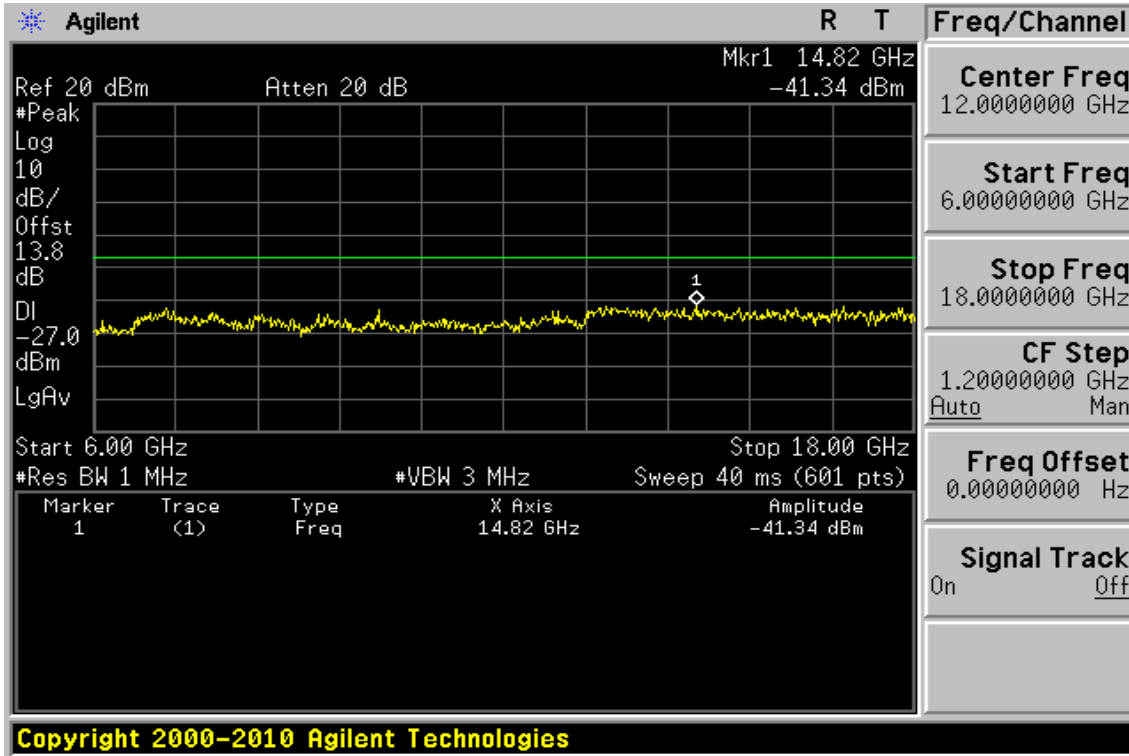


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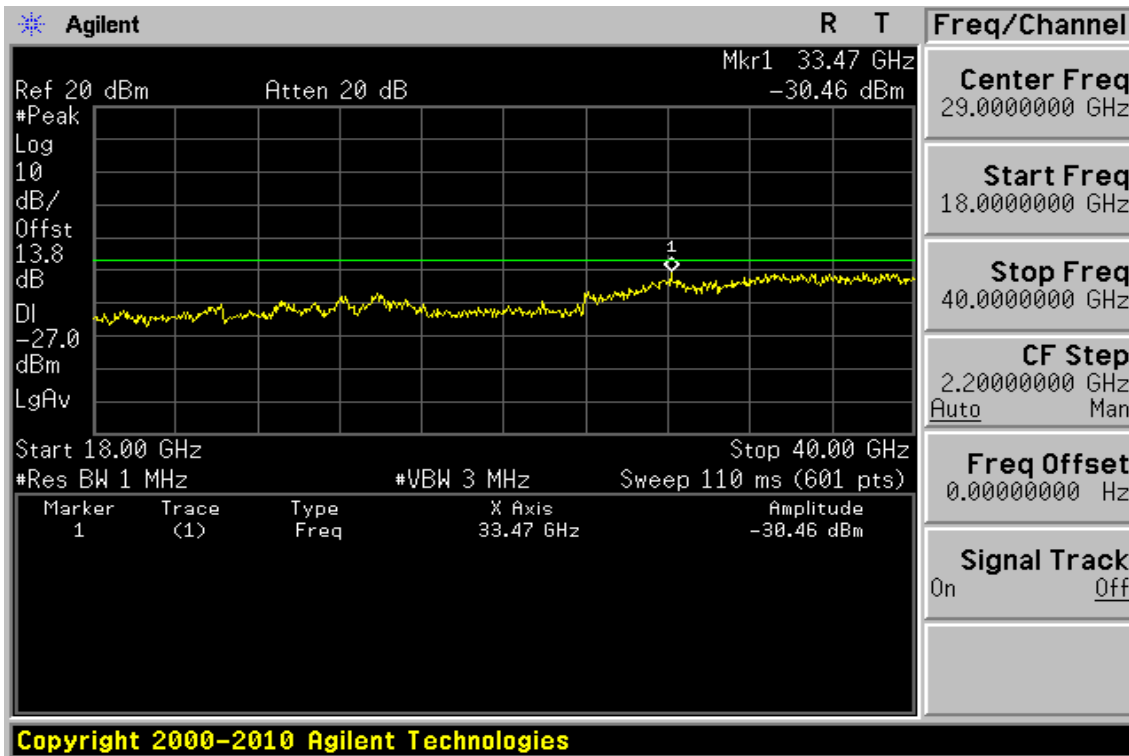
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**Ch Low 6GHz – 18GHz**



**Ch Low 18GHz – 40GHz**

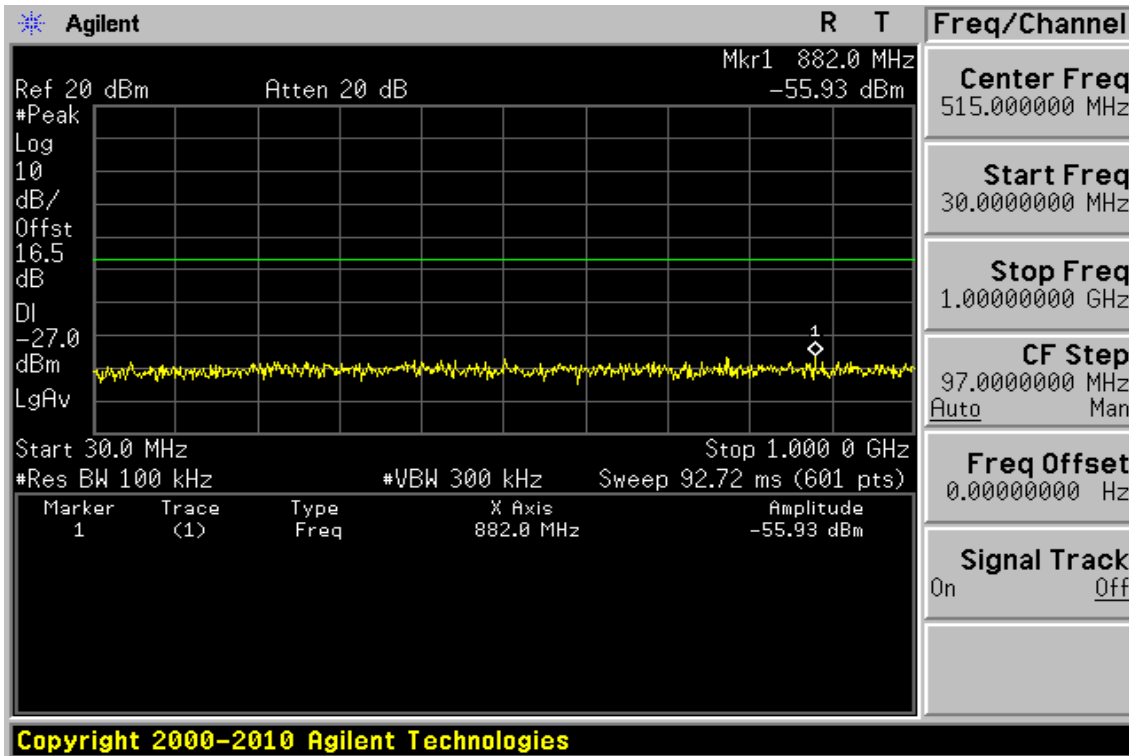


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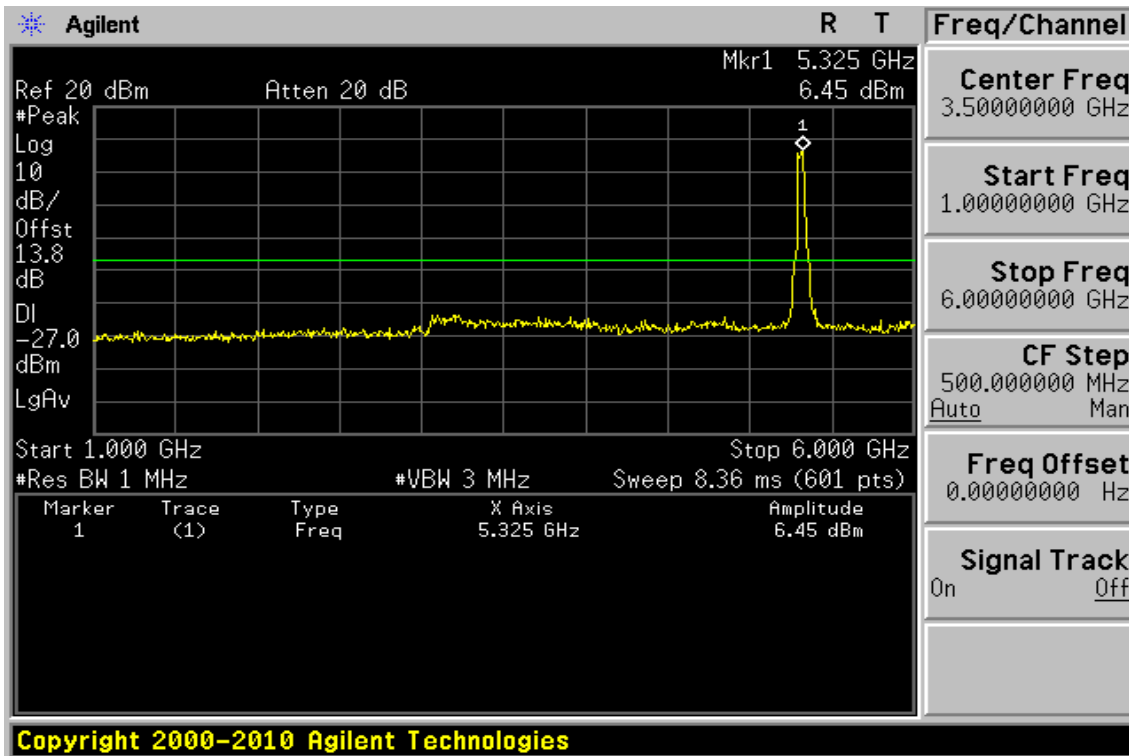
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**Ch High 30MHz – 1GHz (5310 MHz)**



**Ch High 1GHz – 6GHz**

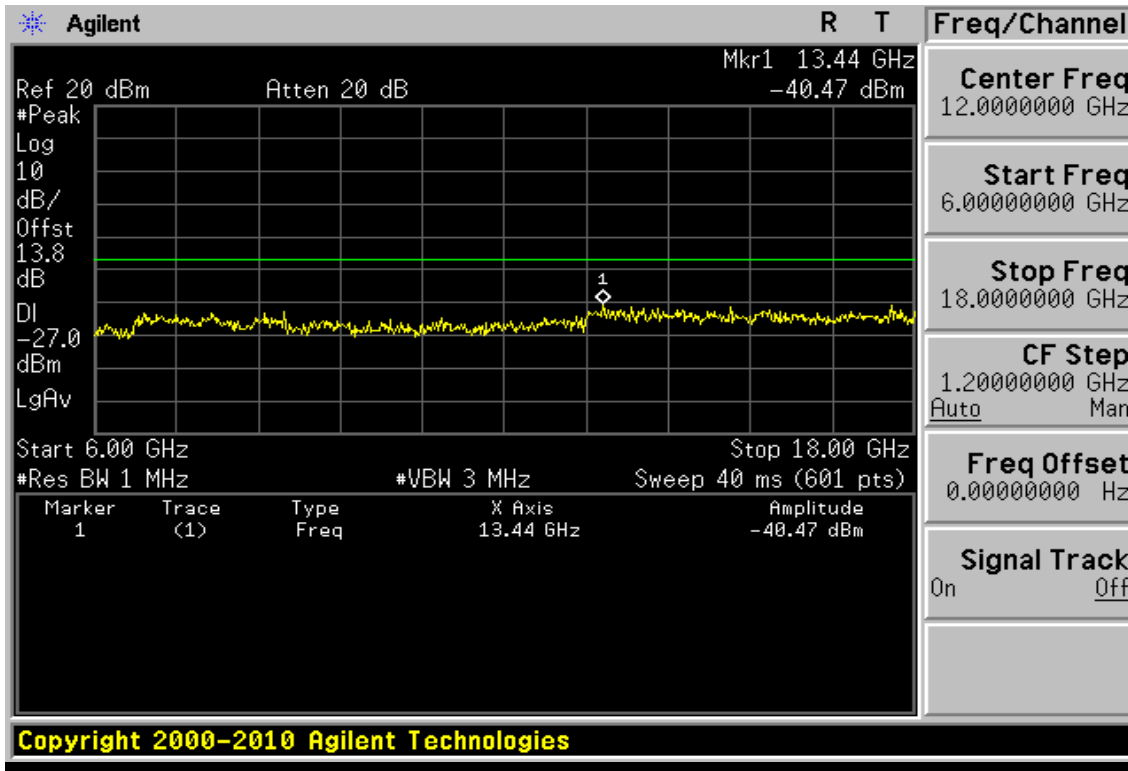


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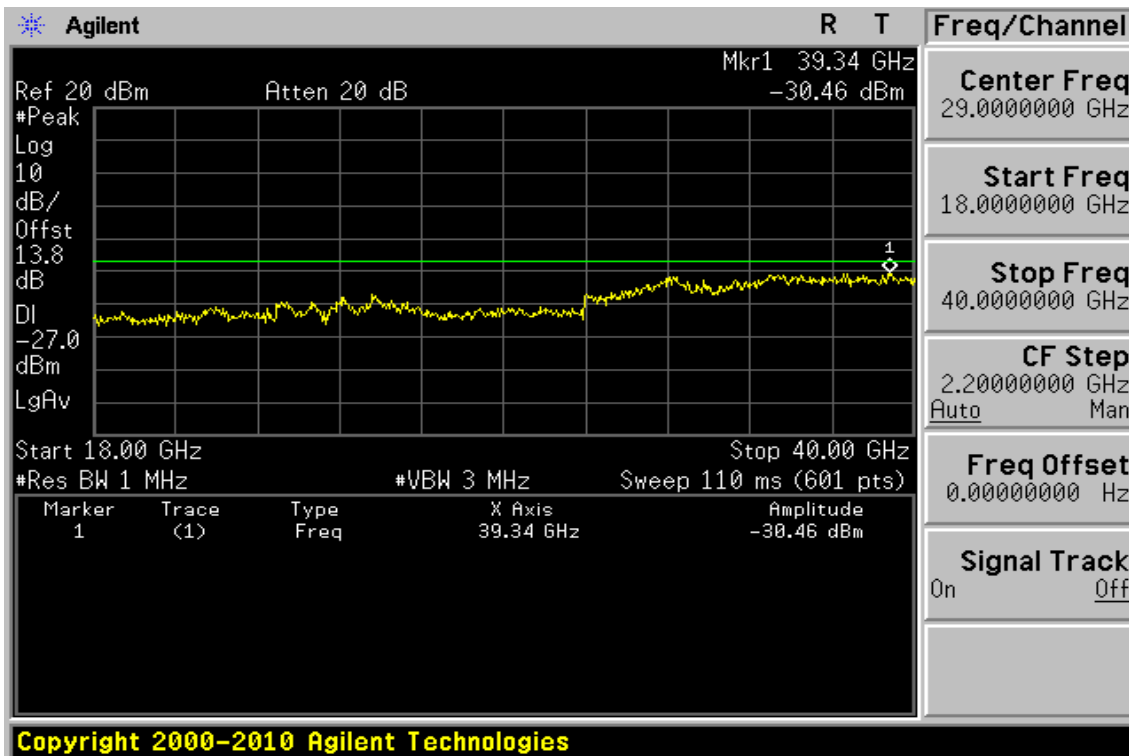
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Ch High 6GHz – 18GHz



Ch High 18GHz – 40GHz



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**Out of Band emission at antenna terminals – 802.11n HT40**

Fundamental Frequency 5190 MHz Engineer :Nick  
 Operation Mode :TX Low

Freq (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	--	-27.00	--
30-1000	S	-56.94	-27.00	29.94
10380.00	H	--	-27.00	--
13700.00	S	-39.04	-27.00	12.04
15570.00	H	--	-27.00	--
20760.00	H	--	-27.00	--
25950.00	H	--	-27.00	--
31140.00	H	--	-27.00	--
36300.00	H	--	-27.00	--
37800.00	S	-30.09	-27.00	3.09

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor. Ref: Reference Signal

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Fundamental Frequency 5230 MHz Engineer :Nick  
 Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-27.00	---
30-1000	S	-56.54	-27.00	29.54
10460.00	H	---	-27.00	---
13620.00	S	-41.14	-27.00	14.14
15690.00	H	---	-27.00	---
20920.00	H	---	-27.00	---
26150.00	H	---	-27.00	---
31380.00	H	---	-27.00	---
36610.00	H	---	-27.00	---
39490.00	S	-30	-27.00	3.00

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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Fundamental Frequency 5310 MHz Engineer :Nick  
 Operation Mode :TX High

Freq (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	--	-27.00	--
30-1000	S	-55.93	-27.00	28.93
10540.00	H	--	-27.00	--
13440.00	S	-40.47	-27.00	13.47
15810.00	H	--	-27.00	--
21080.00	H	--	-27.00	--
26350.00	H	--	-27.00	--
31620.00	H	--	-27.00	--
36890.00	H	--	-27.00	--
39340.00	S	-30.46	-27.00	3.46

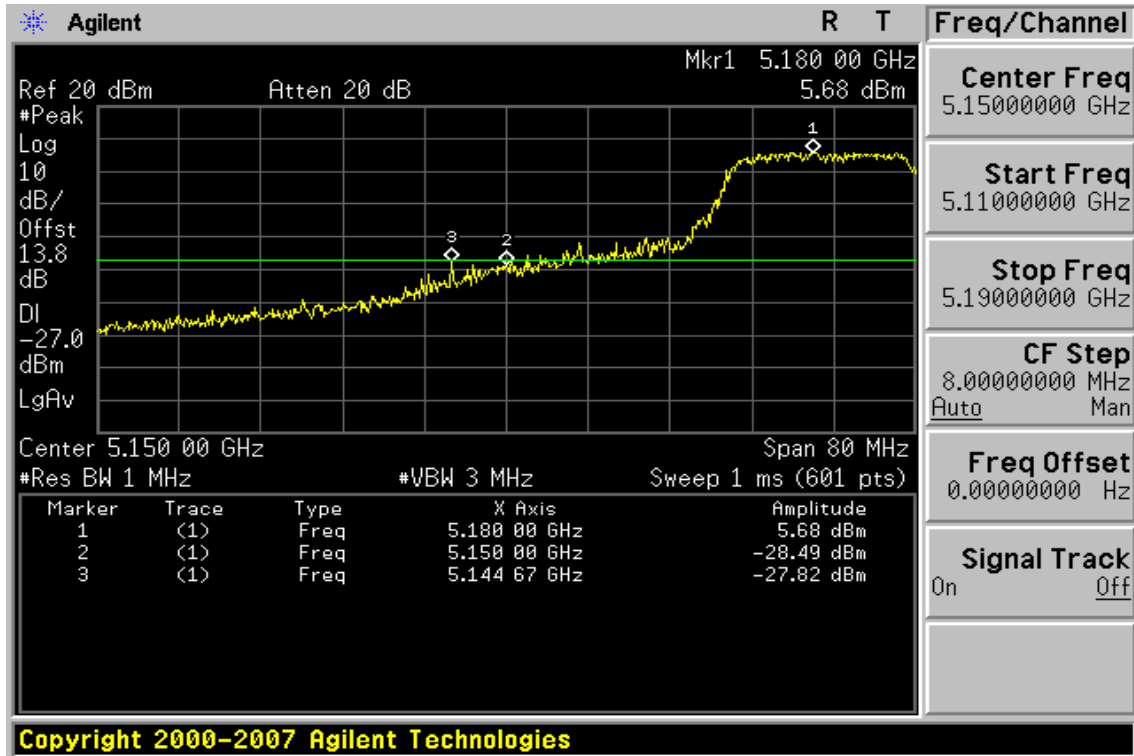
Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
 "---" : denotes Noise Floor. Ref: Reference Signal

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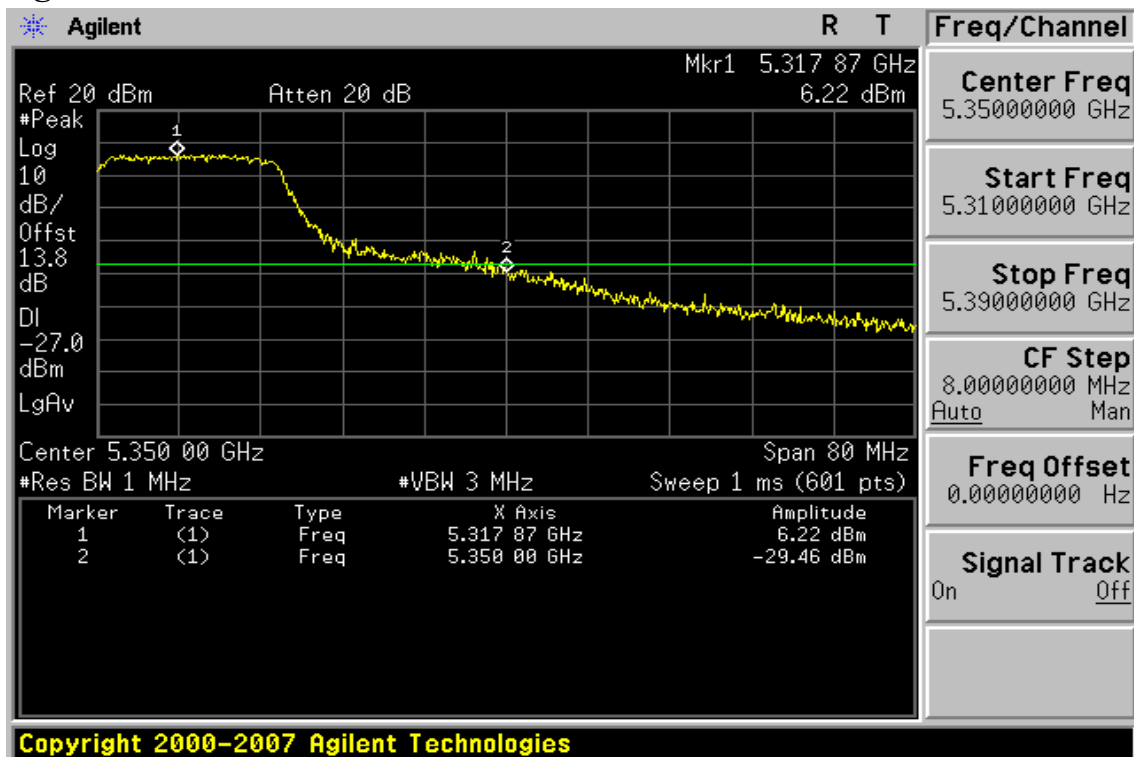
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### 802.11n HT40 5150~5350 MHz

#### Band Edges Test Data CH 5150



#### Band Edges Test Data CH 5350



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**802.11n\_HT40 – Band Edge falling into un-restricted band**

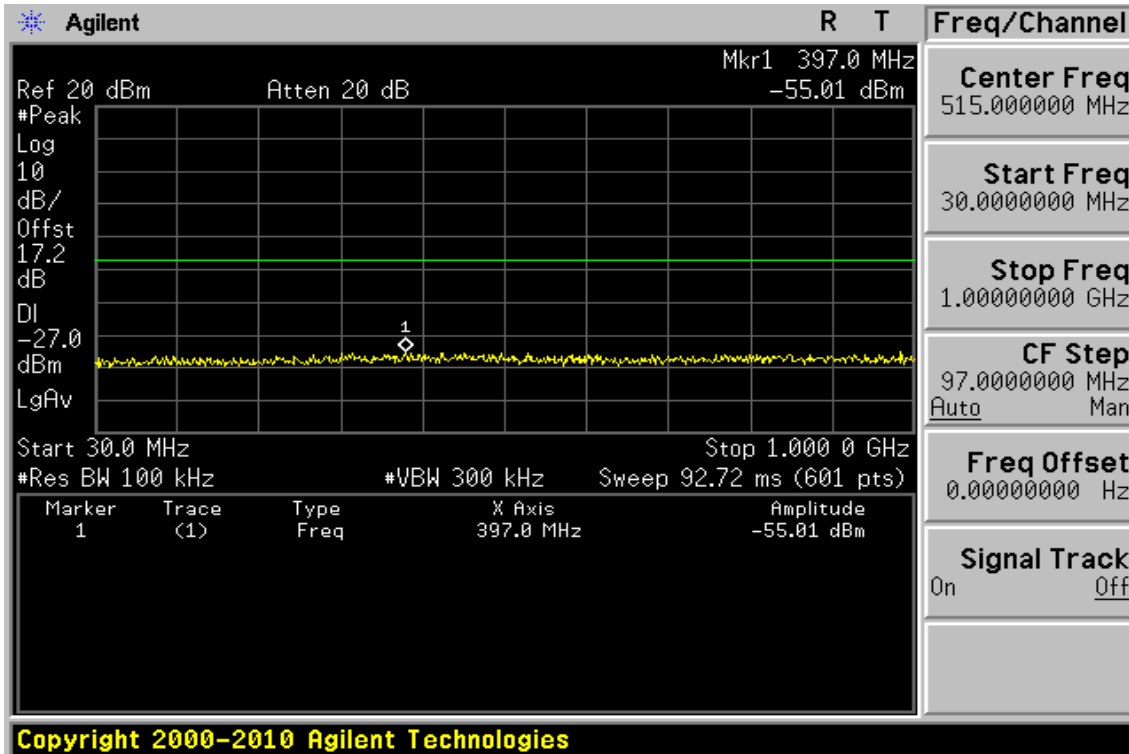
Frequency (GHz)	Results (dBm)	Limit (dBm)	Verdict
5.150	-28.49	-27.00	Pass
5.350	-29.46	-27.00	Pass

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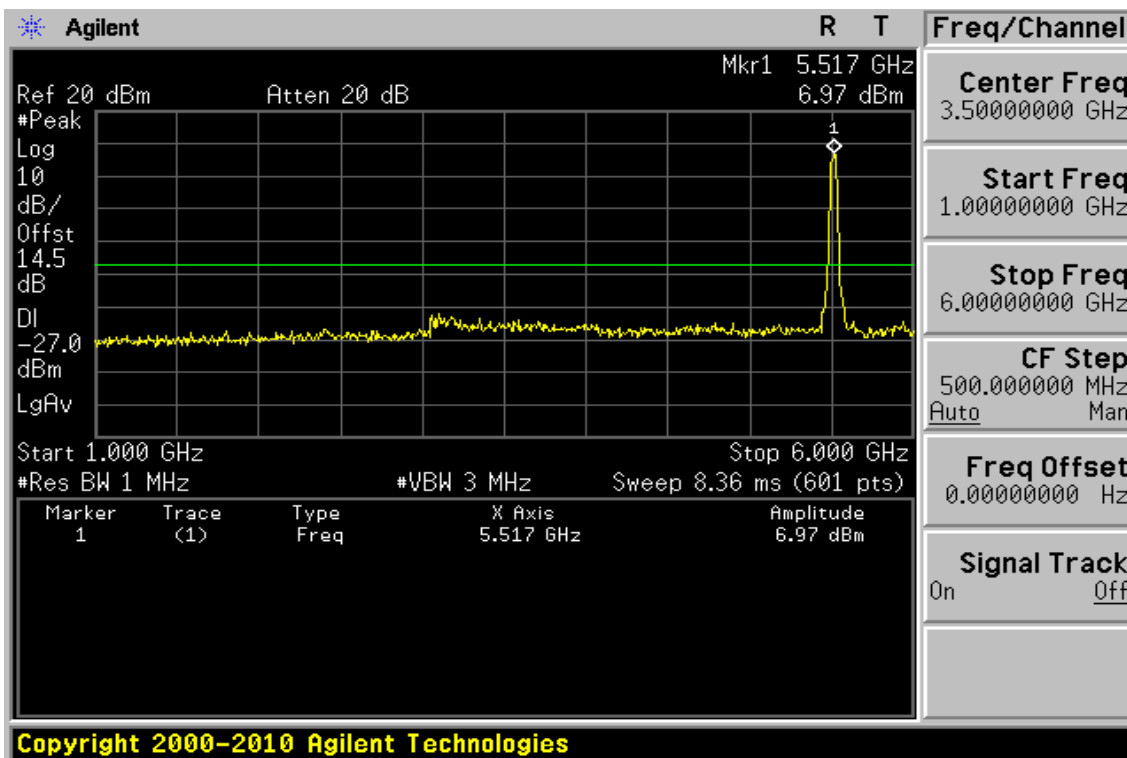
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**802.11n HT40, 5470~5725 MHz**  
**Ch Low 30MHz – 1GHz (5510 MHz)**



**Ch Low 1GHz – 6GHz**

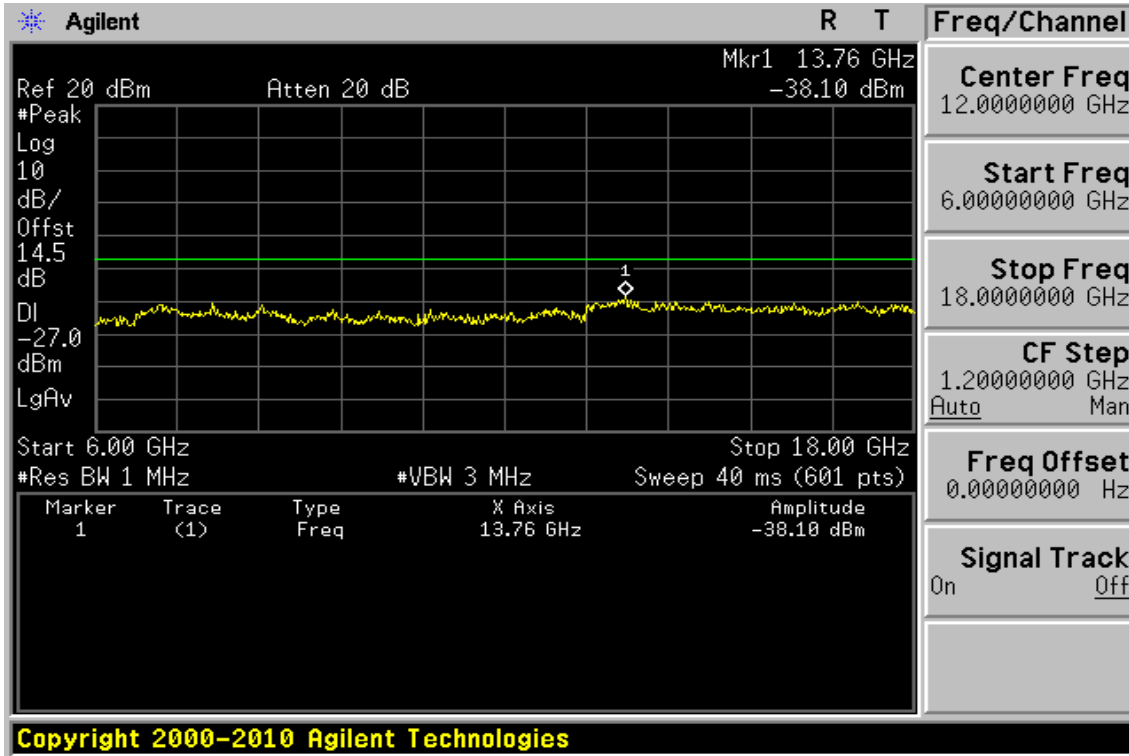


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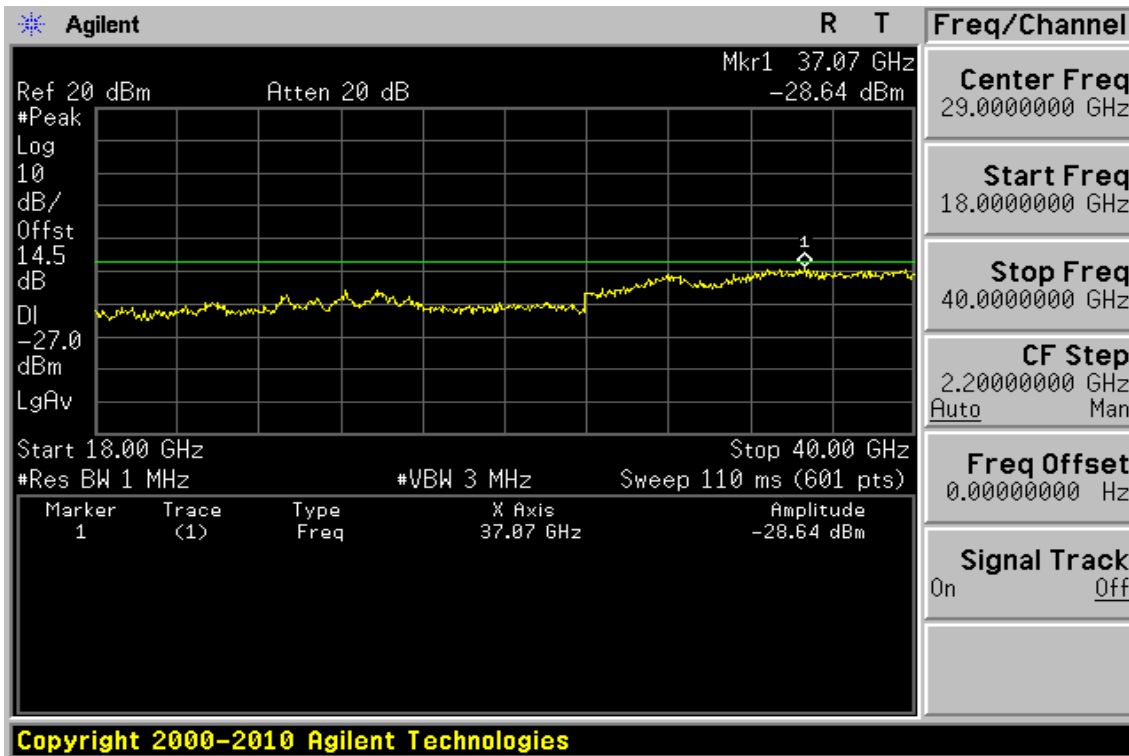
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Ch Low 6GHz – 18GHz



Ch Low 18GHz – 40GHz

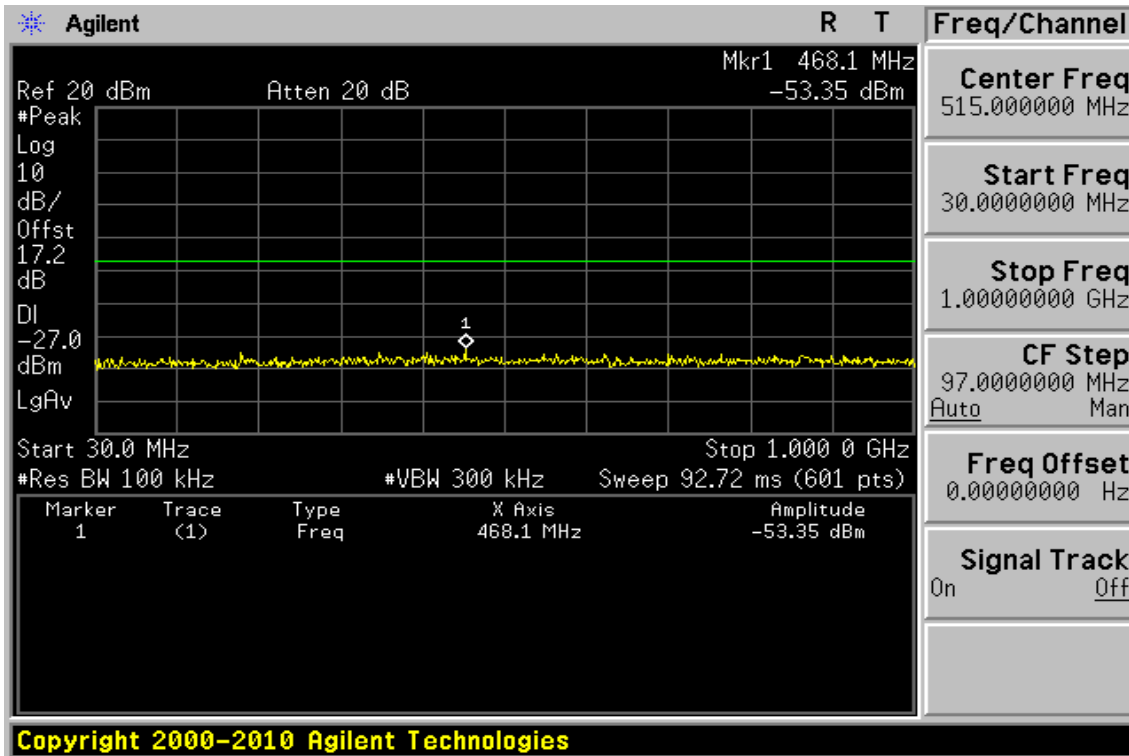


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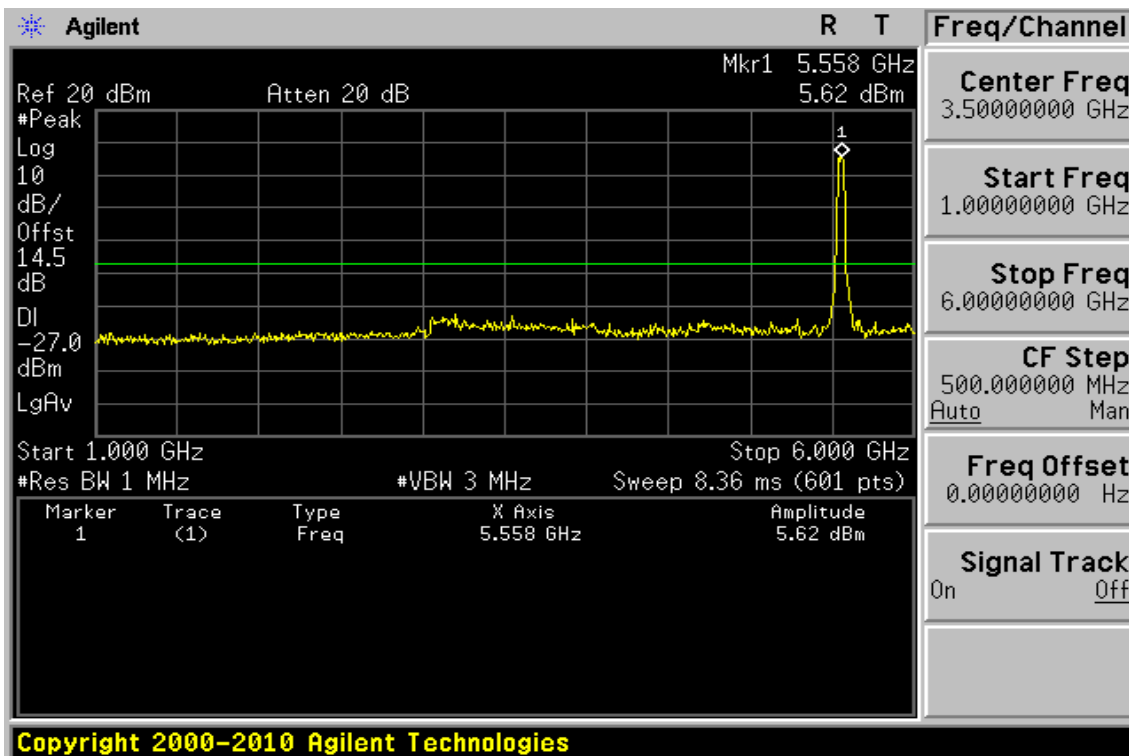
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**Ch Mid 30MHz – 1GHz (5550 MHz)**



**Ch Mid 1GHz – 6GHz**

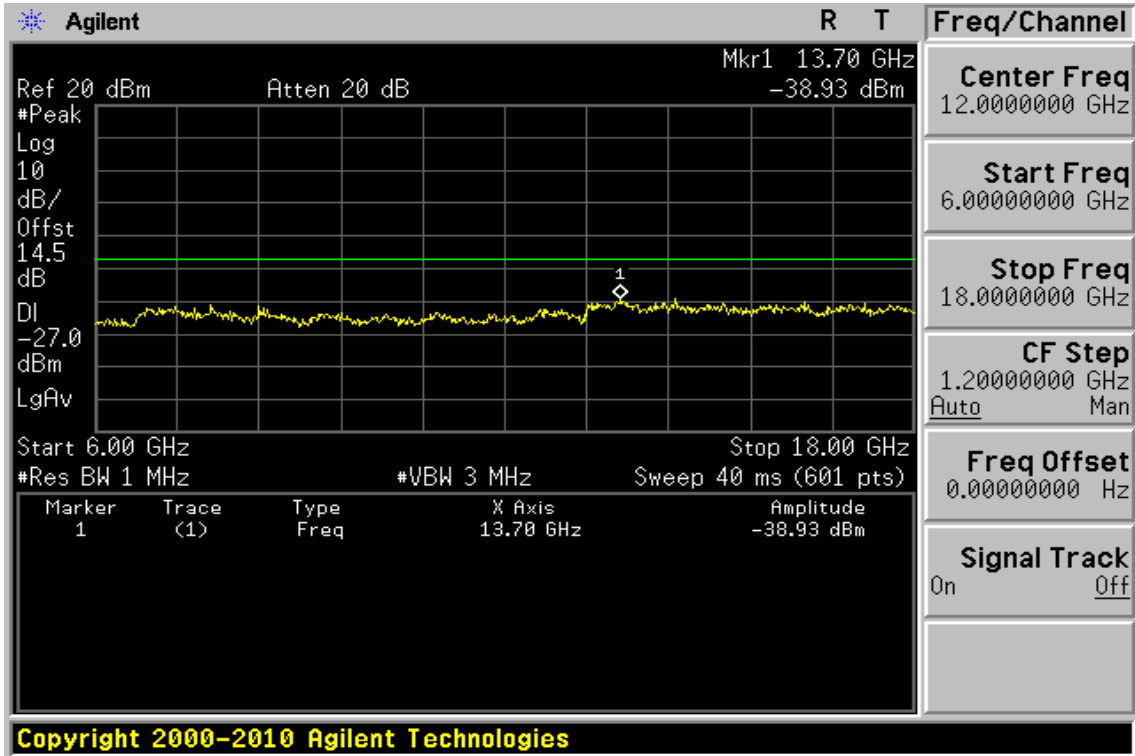


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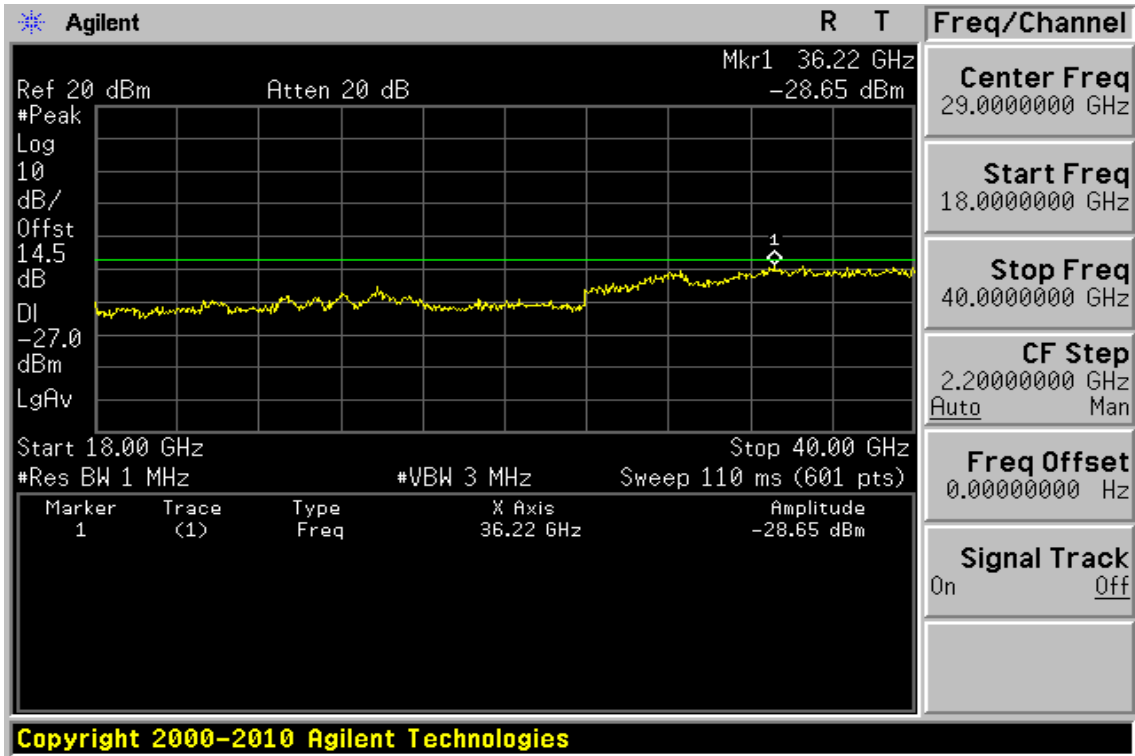
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Ch Mid 6GHz – 18GHz



Ch Mid 18GHz – 40GHz

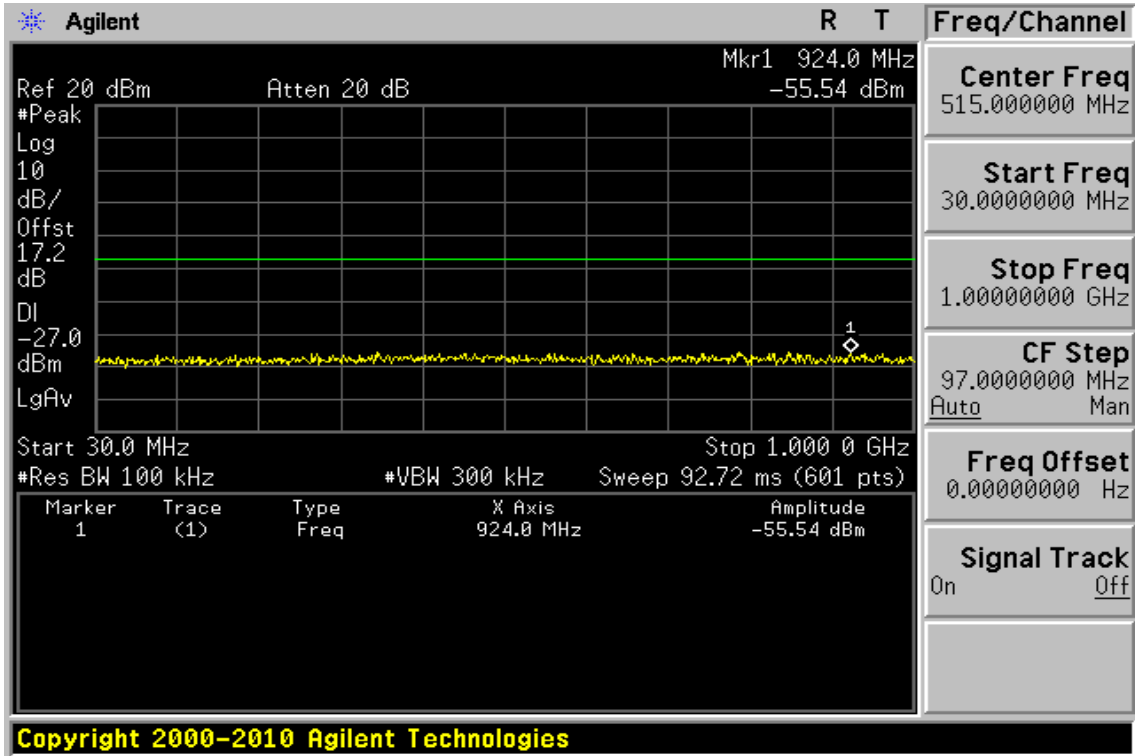


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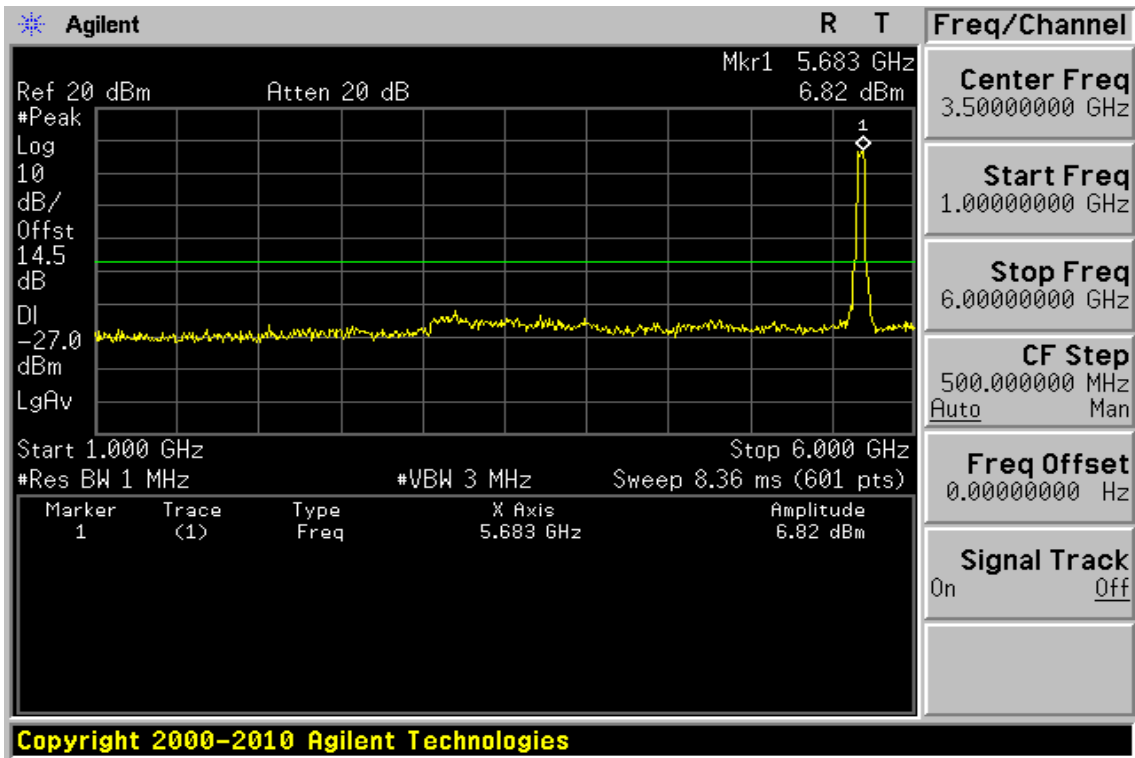
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**Ch High 30MHz – 1GHz (5670 MHz)**



**Ch High 1GHz – 6GHz**



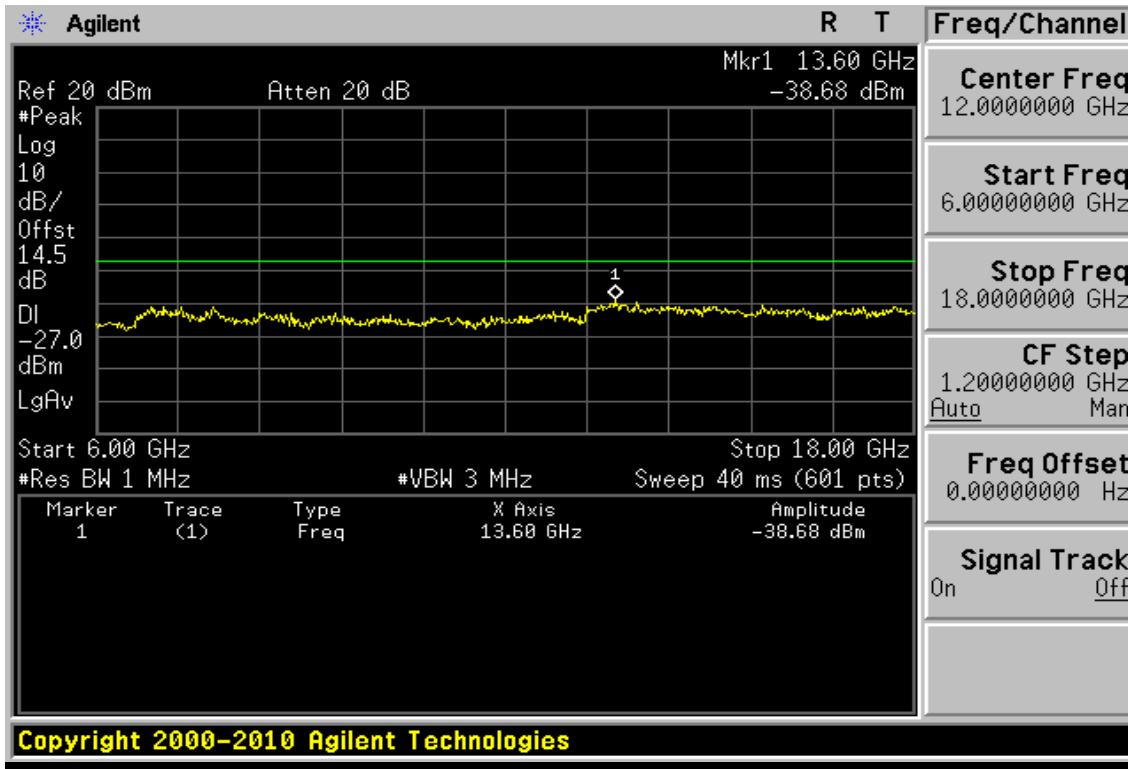
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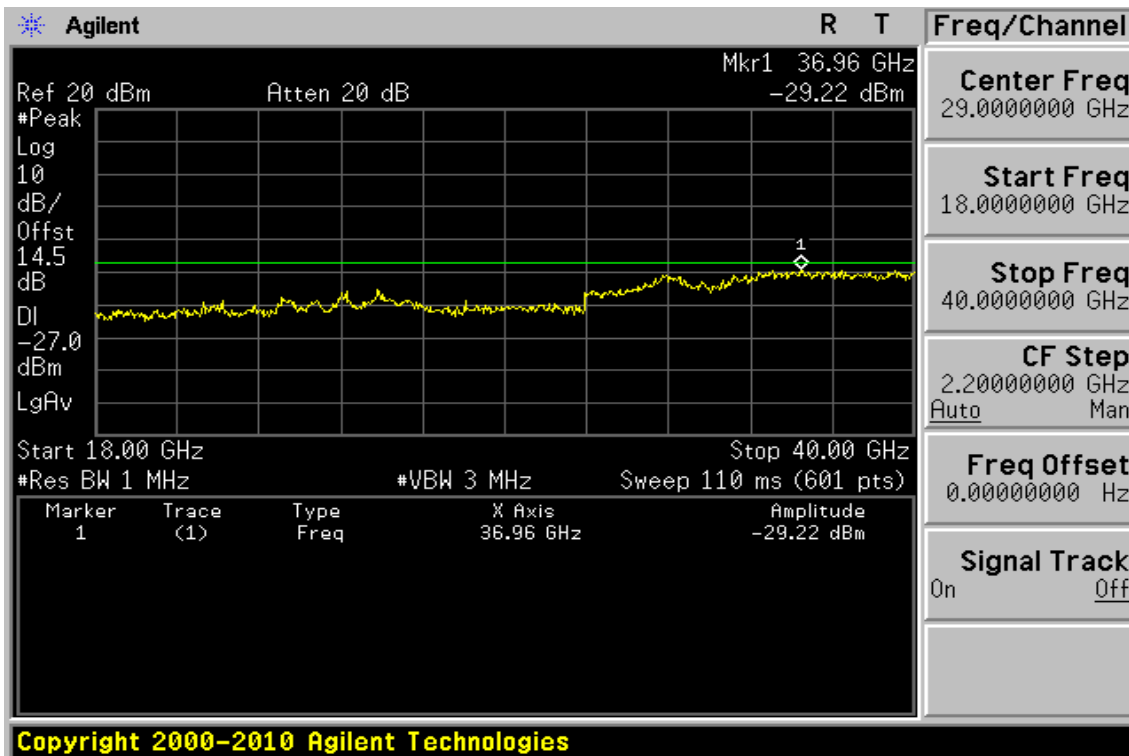
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Ch High 6GHz – 18GHz



Ch High 18GHz – 40GHz



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Fundamental Frequency 5510 MHz Engineer :Nick  
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-27.00	---
30-1000	S	-55.01	-27.00	28.01
11020.00	H	---	-27.00	---
13760.00	S	-38.1	-27.00	11.10
16530.00	H	---	-27.00	---
22040.00	H	---	-27.00	---
27550.00	H	---	-27.00	---
33060.00	H	---	-27.00	---
37070.00	S	-28.64	-27.00	1.64
38570.00	H	---	-27.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
 "----" : denotes Noise Floor. Ref: Reference Signal

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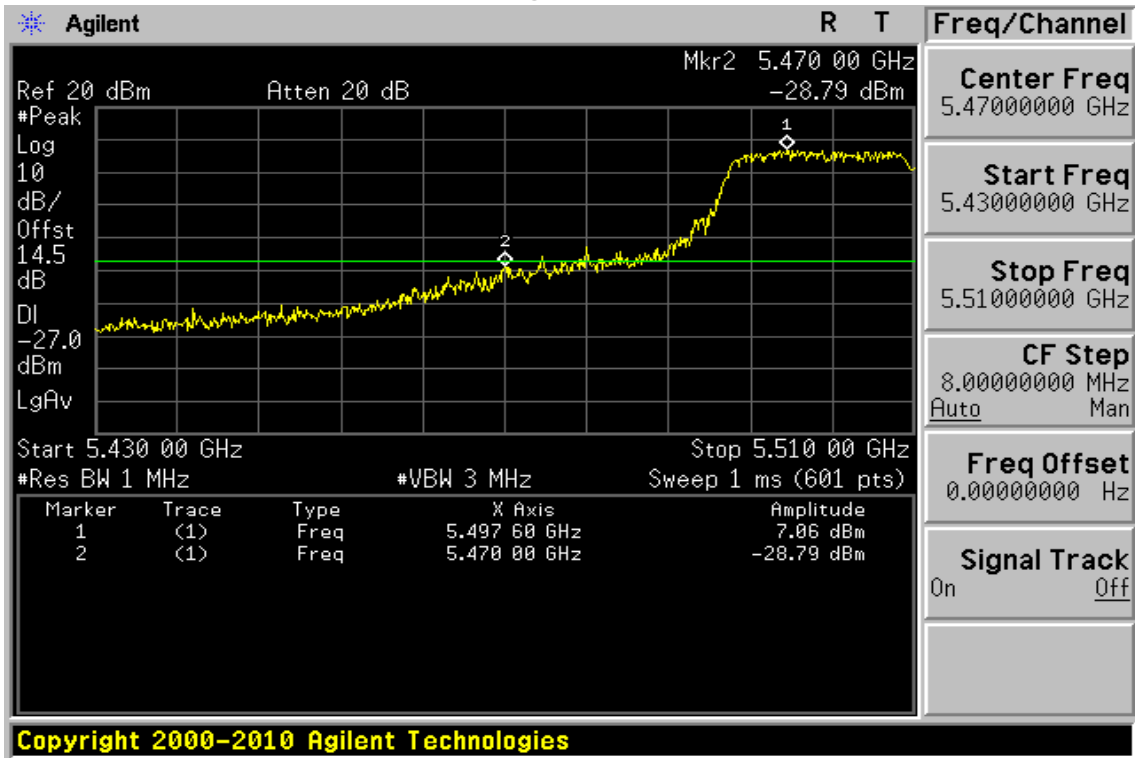
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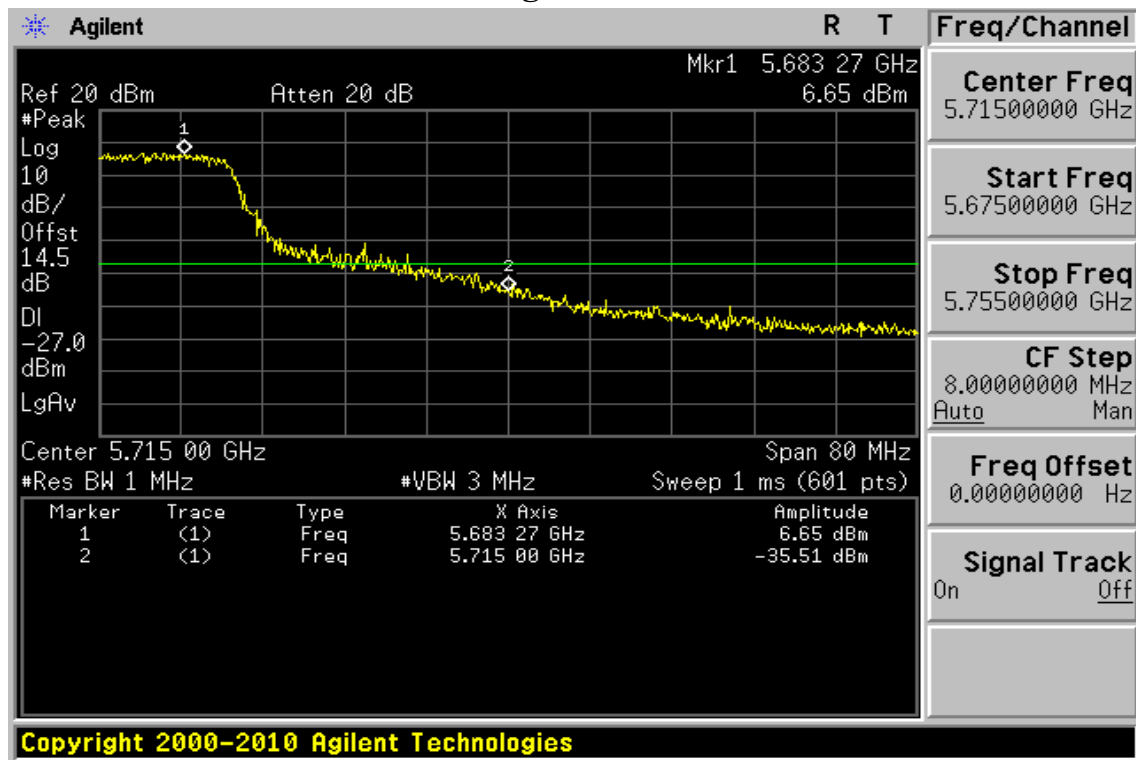




### 802.11n HT40 5470~5725 MHz Band Edges Test Data CH 5510



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



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**802.11n\_HT40 – Band Edge falling into un-restricted band**

Frequency (GHz)	Results (dBm)	Limit (dBm)	Verdict
5.470	-28.79	-27.00	Pass
5.715	-35.51	-27.00	Pass

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