

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART E REQUIREMENT

OF

Product Name: HP Slate 8 Pro
Brand Name: hp
Model No.: 7650xx
Model Difference: xx means other numerical or alphabetic characters for different regions.
FCC ID: B94HHC13CN
Report No.: ER/2014/30015
Issue Date: Mar. 25, 2014
FCC Rule Part: §15.407
Prepared for: Hewlett-Packard Company
3000, Hanover Street Palo Alto, CA 94304
USA
Prepared by: SGS Taiwan Ltd.
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Taiwan 24803



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VERIFICATION OF COMPLIANCE

Applicant: Hewlett-Packard Company
3000, Hanover Street, Palo Alto, CA 94304, USA

Product Name: HP Slate 8 Pro

Brand Name: hp

Model No.: 7650xx

Model Difference: xx means other numerical or alphabetic characters for different regions.

FCC ID: B94HHC13CN

File Number: ER/2014/30015

Date of test: Aug. 30, 2013 ~ Mar. 21, 2014

Date of EUT Received: Aug. 30, 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 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.407.

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

Test By:

Nick Lin

Date:

Mar. 25, 2014

Nick Lin / Engineer

Prepared By:

Tiffany Kao

Date:

Mar. 25, 2014

Tiffany Kao / Clerk

Approved By:

Jim Chang

Date:

Mar. 25, 2014

Jim Chang / Supervisor

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Version

Version No.	Date	Description
00	Mar. 25, 2014	Initial creation of document

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1. GENERAL INFORMATION

1.1. Product Description

General:

Product Name:	HP Slate 8 Pro	
Brand Name:	hp	
Model No.:	7650xx	
Model Difference:	xx means other numerical or alphabetic characters for different regions.	
Data Cable (USB):	Model No.: N/A, Supplier: Various	
Hardware Version:	PV (3.4.66-g11700e4)	
Software Version:	Android 4.4.2	
Power Supply:	3.7Vdc from Li-ion battery or 5.3Vdc from AC/DC adapter	
	Battery:	Model No.: HSTNH-C13C-S, Supplier: Samsung SDI
	Adapter:	Model No.: 8395-V001-1080, Supplier: FOXLINK

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WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Avg.)	Modulation Technology
11a	5150~5250	4	13.20dBm (Avg.)	OFDM
	5250~5350	4	13.20dBm (Avg.)	
	5470~5725	11	13.20 dBm (Avg.)	
11n	HT20 5150~5250	4	Avg. Power: HT 20: 13.23dBm (MIMO Chain 0):10.57dBm (MIMO Chain 1): 9.88dBm (MIMO Chain 0+1): 13.23dBm	OFDM
	HT20 5250~5350	4	Avg. Power: HT 20: 13.24dBm (MIMO Chain 0): 10.77dBm (MIMO Chain 1): 9.92dBm (MIMO Chain 0+1): 13.33dBm	
	HT20 5470~5725	8	Avg. Power: HT 20: 13.11dBm (MIMO Chain 0): 10.83dBm (MIMO Chain 1): 9.92dBm (MIMO Chain 0+1): 13.24dBm	

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11n	HT40 5150-5250	2	Avg. Power: HT 40: 11.42dBm (MIMO Chain 0): 11.00dBm (MIMO Chain 1): 10.55dBm (MIMO Chain 0+1): 13.79dBm	OFDM
	HT40 5250-5350	2	Avg. Power: HT40: 11.38dBm (MIMO Chain 0): 11.31dBm (MIMO Chain 1): 10.61dBm (MIMO Chain 0+1): 13.98dBm	
	HT40 5470-5725	3	Avg. Power: HT40: 11.42dBm (MIMO Chain 0):11.31dBm (MIMO Chain 1): 10.68dBm (MIMO Chain 0+1): 13.96dBm	
Antenna Designation			PIFA Antenna 1. Main: Part NO.: HP4589-12-000-C (DC33001FV30) 5GHz Gain: 0.56dBi (5150MHz-5250MHz) 5GHz Gain: 0.56dBi (5250MHz-5350MHz) 5GHz Gain: 0.56dBi (5470MHz-5725MHz) 2. Aux: Part NO.: HP4590-12-000-C (DC33001FV40) 5GHz Gain: -0.35dBi (5150MHz-5250MHz) 5GHz Gain: -0.35dBi (5250MHz-5350MHz) 5GHz Gain: 0.27dBi (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 – 144Mbps 802.11 n_40MHz: 13.5 – 300Mbps	

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

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

802.11n_HT20 MCS8 -15

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 (see NOTE)
8	BPSK	1/2	1	52	4	104	52	13.0	14.4
9	QPSK	1/2	2	52	4	208	104	26.0	28.9
10	QPSK	3/4	2	52	4	208	156	39.0	43.3
11	16-QAM	1/2	4	52	4	416	208	52.0	57.8
12	16-QAM	3/4	4	52	4	416	312	78.0	86.7
13	64-QAM	2/3	6	52	4	624	416	104.0	115.6
14	64-QAM	3/4	6	52	4	624	468	117.0	130.0
15	64-QAM	5/6	6	52	4	624	520	130.0	144.4
NOTE—The 400 ns GI rate values are rounded to 1 decimal place.									

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802.11n_HT40 MCS8 -15

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
8	BPSK	1/2	1	108	6	216	108	27.0	30.0
9	QPSK	1/2	2	108	6	432	216	54.0	60.0
10	QPSK	3/4	2	108	6	432	324	81.0	90.0
11	16-QAM	1/2	4	108	6	864	432	108.0	120.0
12	16-QAM	3/4	4	108	6	864	648	162.0	180.0
13	64-QAM	2/3	6	108	6	1296	864	216.0	240.0
14	64-QAM	3/4	6	108	6	1296	972	243.0	270.0
15	64-QAM	5/6	6	108	6	1296	1080	270.0	300.0

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

This submittal(s) (test report) is intended for **FCC ID: B94HHC13CN** 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 a DoC procedure.

1.3. Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4:2009 & 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. 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 is 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. 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, 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,.

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2.4. Configuration of Tested System

Fig. 2-1 Radiated Emission

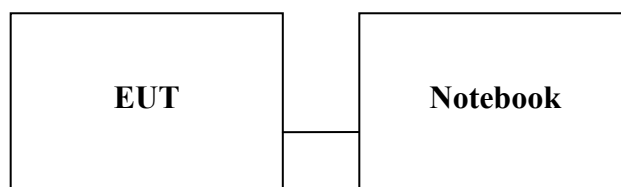


Fig. 2-2 Conducted (Antenna Port) Configuration

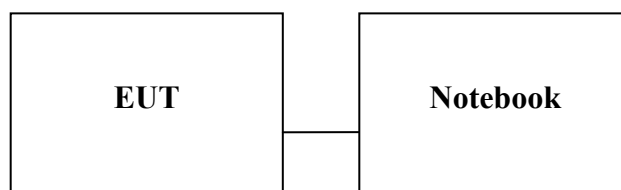


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	Notebook	Lenovo	L412	LR-957X7	shielding	Un-shielding
2.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A

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Fig. 2-3 AC Power Line Conducted Emission

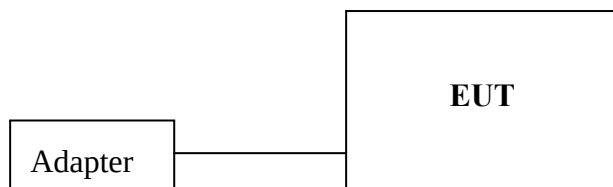


Table 2-2 Equipment Used in Tested System

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

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3. SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§15.207	AC Power Line Conducted Emission	Compliant
§15.407(a) (1) (2)	26 dB and 99% 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

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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.

Pre-scanned was done on external antenna: DC33001FV30 and antenna DC33001FV40, and antenna DC33001FV30 results higher emission at 5GHz. Therefore, the completed set of measurement was done on antenna: DC33001FV30 to presented on this test report.

For radiation spurious emission test relevant n_HT20&HT40, MIMO mode that generates the higher emission is chosen to be tested in comparison with transmission at SISO mode.

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Directional gain (MIMO)

The Tx transmission to construct MIMO operation is cyclic delay diversity, and the following deduction to obtain the array gain of MIMO operation is based on the approach given by KDB 662911 D01.

Array gain = 3.01dBi (peak spectral density, conducted spurious emission)

Gain that is combined with different magnitude of two antennas:

(ii) If antenna gains are not equal, the user may use either of the following methods to calculate directional gain, provided that each transmit antenna is driven by only one spatial stream:

- Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain; or,

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the k th antenna is being fed by spatial stream j , or zero if it is not;

G_k is the gain in dBi of the k th antenna.

Directive Gain = 0.128101dBi (5150~5250MHz)

Directive Gain = 0.128740dBi (5250~5350MHz)

Directive Gain = 0.415761dBi (5470~5725MHz)

MIMO Gain = 0.685765dBi (5150~5350MHz)

MIMO Gain = 0.688740dBi (5250~5350MHz)

MIMO Gain = 0.975761dBi (5470~5725MHz)

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The operation of Simultaneous Transmission:

The auxiliary port of Wifi 5GHz is capable of being transmitted signal with Bluetooth transmitter at the same time, and on the same antenna via the same signal trace.

Collocated Test on conducted spurious emission (page 245~246), and radiated spurious emission (page 322~323) has been tested. Only worst case that generates the worst measurement result is recorded on the test report.

Duty Cycle Analysis:

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode (a/n_ht20/n_ht40) shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle. All duty cycle is pre-scanned, resulted as obtained below, and showed only the most representative ones

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

Formula:

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

Test Procedure:

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

Duty Cycle:

5150-5725MHz	Antenna	Duty Cycle	Duty Factor (dBm)
802.11a	Single- Main	0.9249	0.34
802.11n_20	MIMO-Main	0.9066	0.43
	MIMO-Aux	0.9016	0.45
802.11n_40	MIMO-Main	0.7642	1.17
	MIMO-Aux	0.8344	0.79

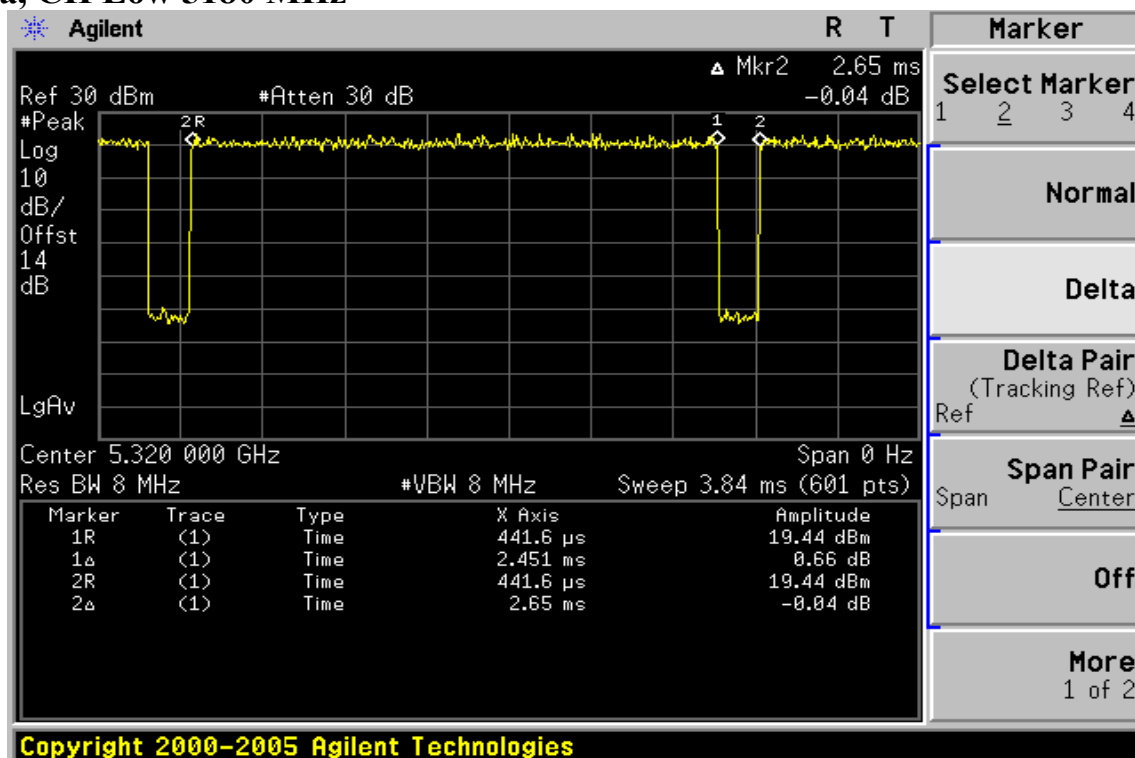
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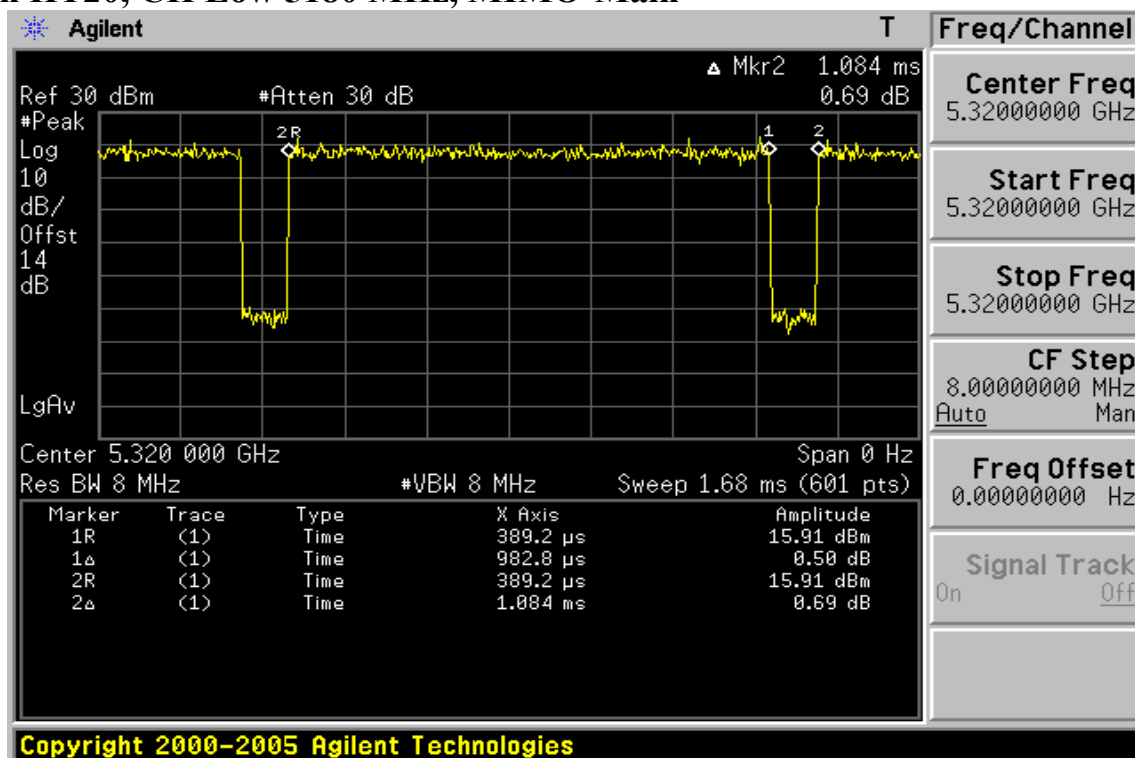
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DUTY CYCLE OF TEST SIGNAL

802.11a, CH Low 5180 MHz



802.11n HT20, CH Low 5180 MHz, MIMO-Main

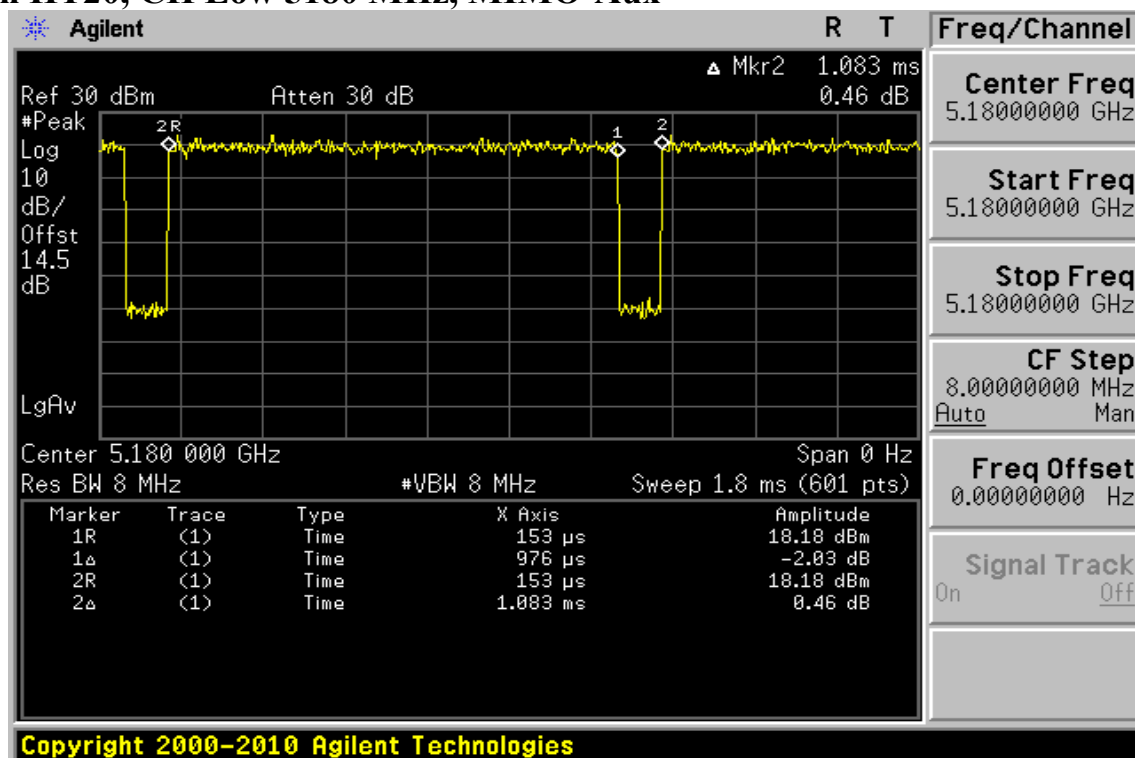


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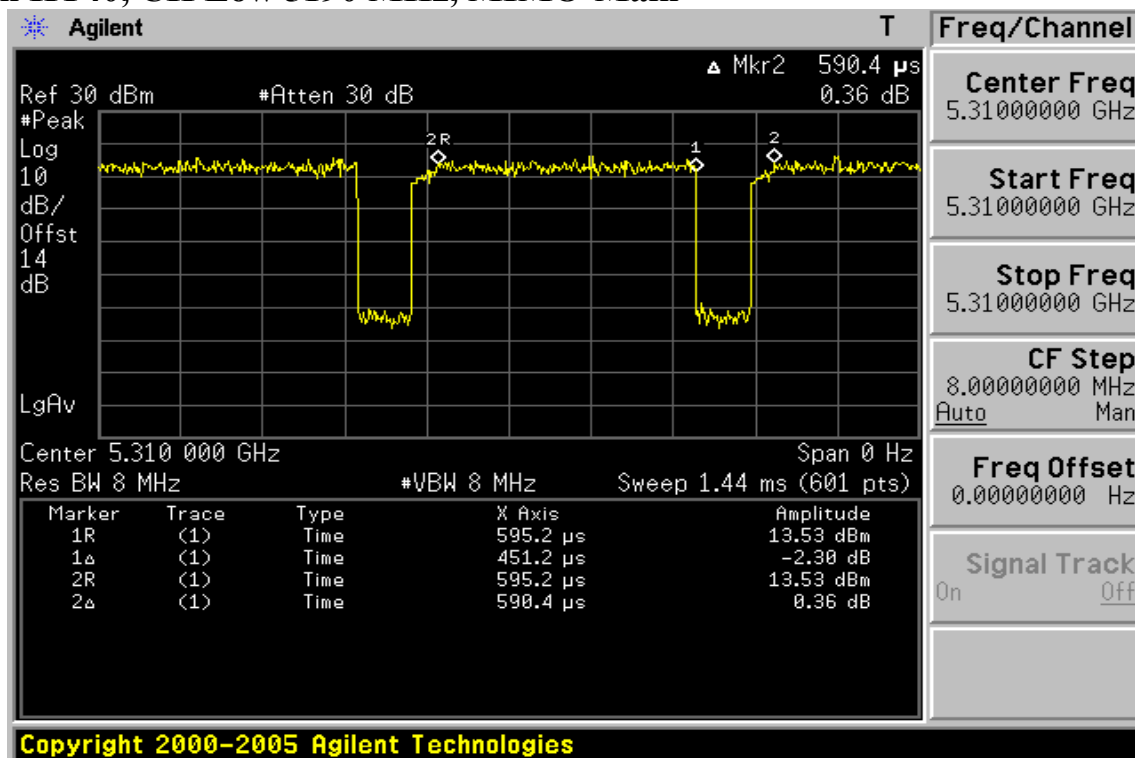
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802.11n HT20, CH Low 5180 MHz, MIMO-Aux



802.11n HT40, CH Low 5190 MHz, MIMO-Main

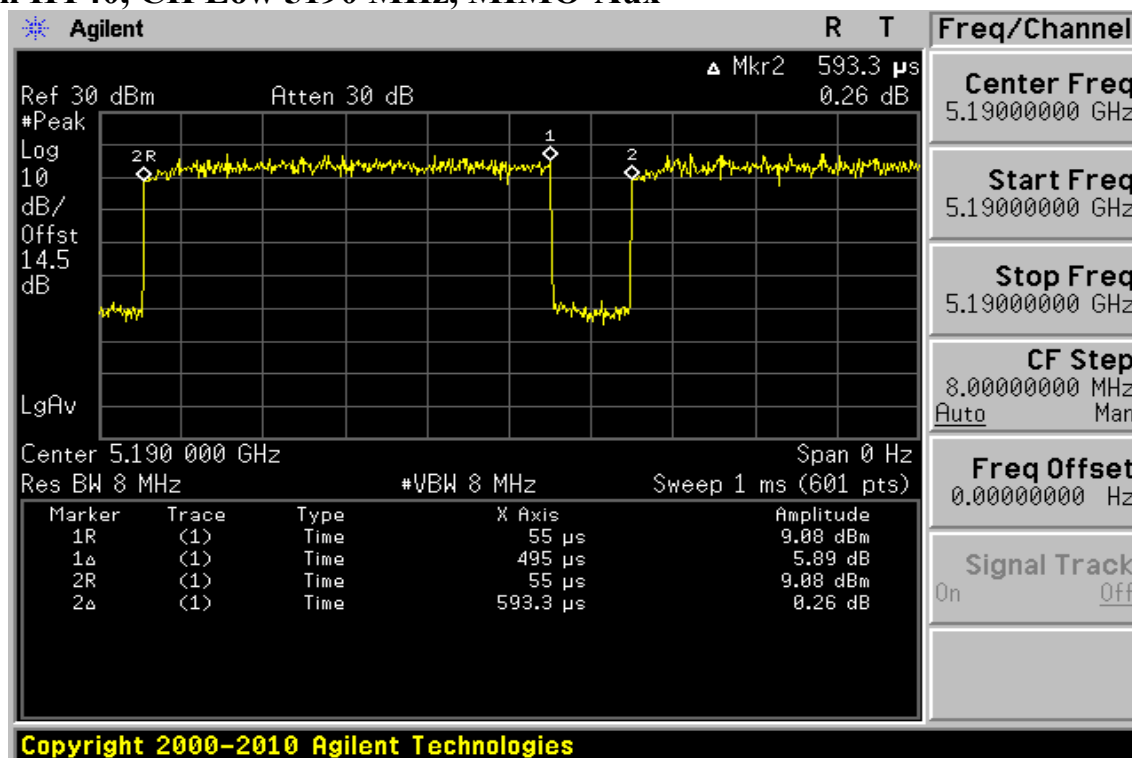


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802.11n HT40, CH Low 5190 MHz, MIMO-Aux



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5. MEASUREMENT UNCERTAINTY

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

Radiated Spurious Emission:

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

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

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

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6. CONDUCTED EMISSION TEST

6.1. Standard Applicable

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

Frequency range MHz	Limits dB(uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
Note		
1.The lower limit shall apply at the transition frequencies		
2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

6.2. Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI7	100759	02/08/2013	02/07/2014
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

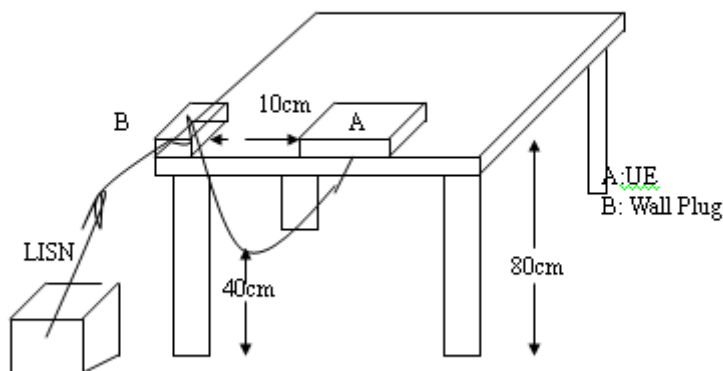
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.4:2009.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The LISN was connected with 120Vac/60Hz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

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



6.5. Measurement Procedure

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

6.6. Measurement Result

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

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

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode			Test Date:	Sep. 03, 2013
Temperature:	26 °C	Humidity:	60 %	Test By:	Marcus

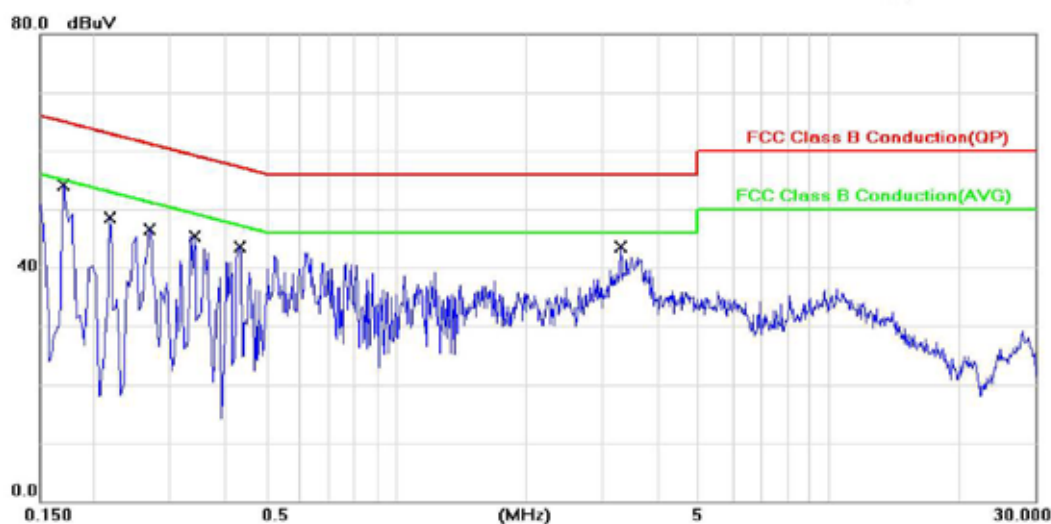
Site	ConductionRoom	Phase:	L1	Temperature:	26 °C
Limit:	FCC Class B Conduction(QP)	Power:	AC 120V/60Hz	Humidity:	60%
EUT:	Tablet Computer	Distance:			
EUT:	HP Slate 8 Pro	Mode:	Operationmode		
M/N:	7650xx				

ConductedEmission

Data #2

Date: 2013/9/3

Time: 下午 01:29:37



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1700	36.94	9.96	46.90	64.96	-18.06	QP	
2		0.1700	21.01	9.96	30.97	54.96	-23.99	AVG	
3	*	0.2180	38.54	9.97	48.51	62.89	-14.38	QP	
4		0.2700	36.48	10.00	46.48	61.12	-14.64	QP	
5		0.3420	29.58	10.01	39.59	59.15	-19.56	QP	
6		0.3420	15.24	10.01	25.25	49.15	-23.90	AVG	
7		0.4340	27.54	10.02	37.56	57.18	-19.62	QP	
8		0.4340	11.84	10.02	21.86	47.18	-25.32	AVG	
9		3.2940	23.81	10.11	33.92	56.00	-22.08	QP	
10		3.2940	13.35	10.11	23.46	46.00	-22.54	AVG	

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Site: ConductionRoom
 Limit: FCC Class B Conduction(QP)
 EUT: TabletComputer
 EUT: HP Slate 8 Pro
 M/N: 7650xx

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

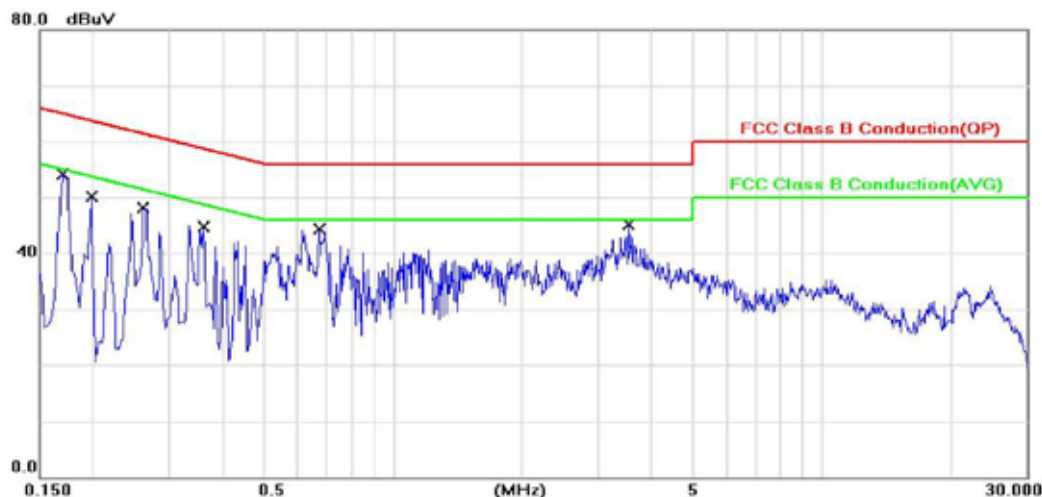
Temperature: 25 °C
 Humidity: 60%

Conducted Emission

Data: #1

Date: 2013/9/3

Time: 下午 01:25:20



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1700	37.23	9.96	47.19	64.96	-17.77	QP	
2		0.1700	22.47	9.96	32.43	54.96	-22.53	AVG	
3		0.1980	30.32	9.96	40.28	63.69	-23.41	QP	
4		0.1980	10.92	9.96	20.88	53.69	-32.81	AVG	
5		0.2620	32.68	9.99	42.67	61.37	-18.70	QP	
6		0.2620	21.62	9.99	31.61	51.37	-19.76	AVG	
7		0.3620	28.24	10.02	38.26	58.68	-20.42	QP	
8		0.3620	12.86	10.02	22.88	48.68	-25.80	AVG	
9		0.6740	28.02	10.02	38.04	56.00	-17.96	QP	
10	*	0.6740	18.67	10.02	28.69	46.00	-17.31	AVG	
11		3.5620	25.28	10.13	35.41	56.00	-20.59	QP	
12		3.5620	16.47	10.13	26.60	46.00	-19.40	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. 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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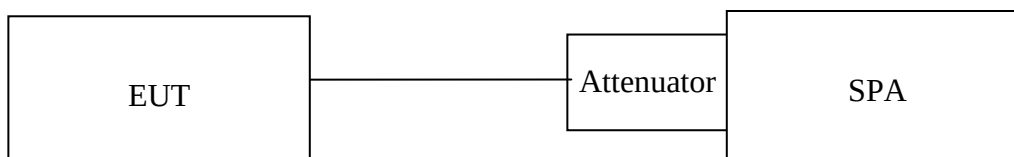
7.3 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2495A	1005007	02/08/2012	02/07/2014
Power Sensor	Anritsu	MA2411B	917032	02/08/2012	02/07/2014
Spectrum Analyzer	Agilent	E4446A	MY51100003	05/30/2013	05/29/2014
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

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2495A	1005007	01/13/2014	01/12/2015
Power Sensor	Anritsu	MA2411B	917032	01/13/2014	01/12/2015
Spectrum Analyzer	Agilent	E4440A	MY45304525	03/08/2014	03/07/2015
DC Block	Mini-Circuits	BLK-18-S+	1	02/27/2014	02/26/2015
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	01/03/2014	01/02/2015
Attenuator	Mini-Circuit	BW-S10W2+	002	02/27/2014	02/26/2015
Splitter	Agilent	11636B	N/A	02/27/2014	02/26/2015

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

7.4 Test Set-up:



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7.5 Measurement Result

802.11a, 5150~5250 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5180	18.939	12.77
5220	18.943	12.77
5240	18.778	12.74

802.11a, 5250~5350 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5260	18.866	12.76
5300	19.079	12.81
5320	19.219	12.84

802.11a, 5470~5725 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5500	19.137	12.82
5580	18.879	12.76
5700	19.195	12.83

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802.11n HT20, 5150~5250 MHz MIMO-Main

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5180	19.555	12.91
5220	19.634	12.93
5240	19.459	12.89

802.11n HT20, 5250~5350 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5260	19.485	12.90
5300	19.755	12.96
5320	19.509	12.90

802.11n HT20, 5470~5725 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5500	19.622	12.93
5580	19.493	12.90
5700	19.727	12.95

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802.11n HT20, 5150~5250 MHz MIMO-Aux

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5180	19.310	12.86
5220	19.308	12.86
5240	19.515	12.90

802.11n HT20, 5250~5350 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5260	19.314	12.86
5300	19.493	12.90
5320	19.421	12.88

802.11n HT20, 5470~5725 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5500	19.359	12.87
5580	19.375	12.87
5700	19.307	12.86

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802.11n HT40, 5150~5250 MHz MIMO-Main

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5190	45.178	16.55
5230	45.081	16.54

802.11n HT40, 5250~5350 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5270	45.093	16.54
5310	44.868	16.52

802.11n HT40, 5470~5725 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5510	45.353	16.57
5550	45.329	16.56
5670	45.205	16.55

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802.11n HT40, 5150~5250 MHz MIMO-Aux

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5190	45.138	16.55
5230	44.351	16.47

802.11n HT40, 5250~5350 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5270	44.724	16.51
5310	45.498	16.58

802.11n HT40, 5470~5725 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5510	44.456	16.48
5550	44.792	16.51
5670	45.291	16.56

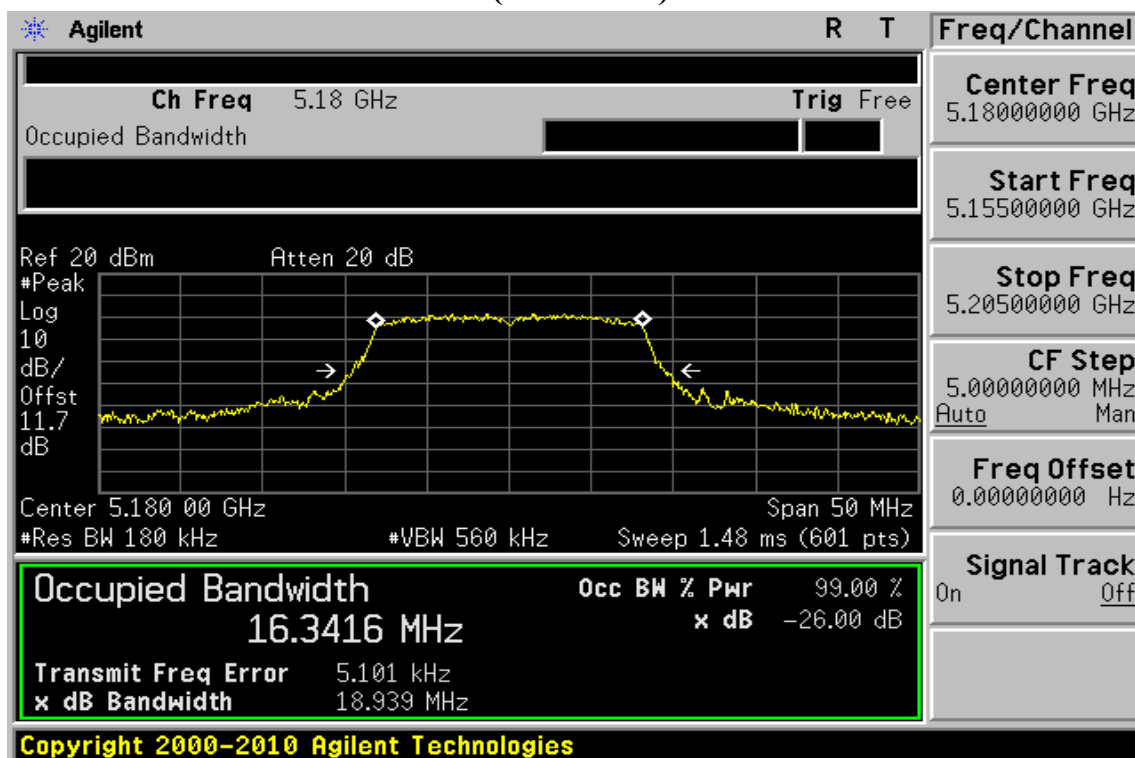
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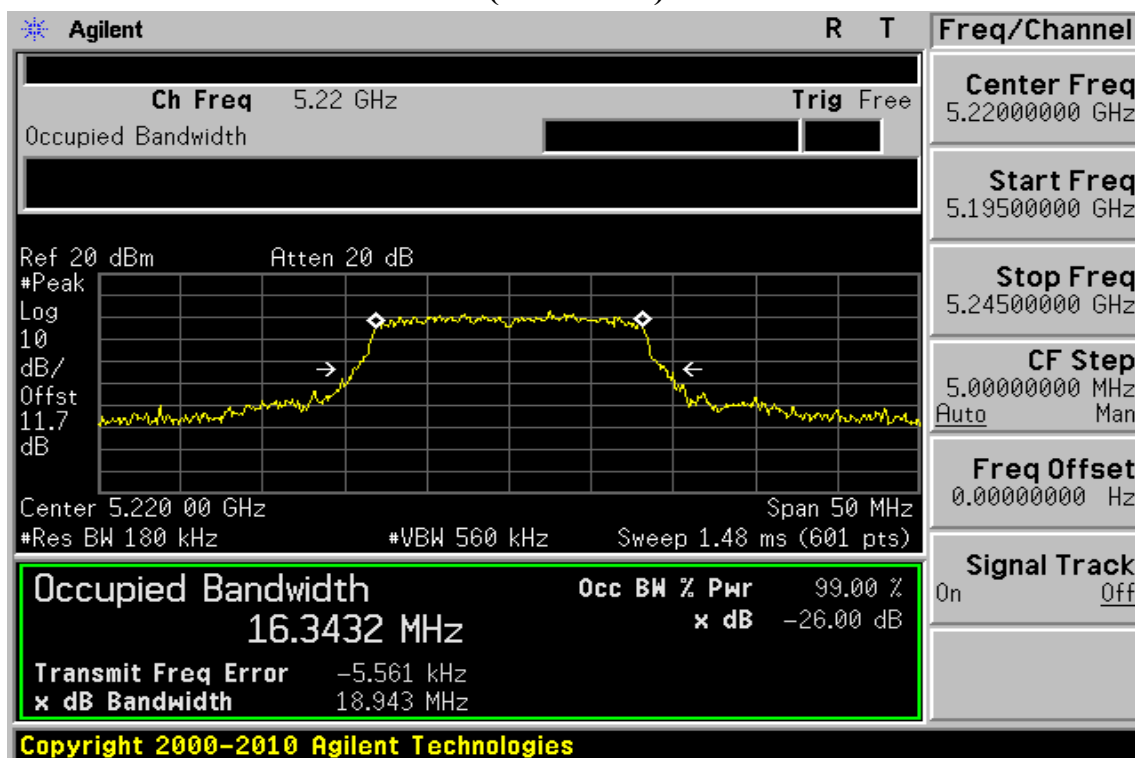
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802.11a, 5150~5250 MHz

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



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

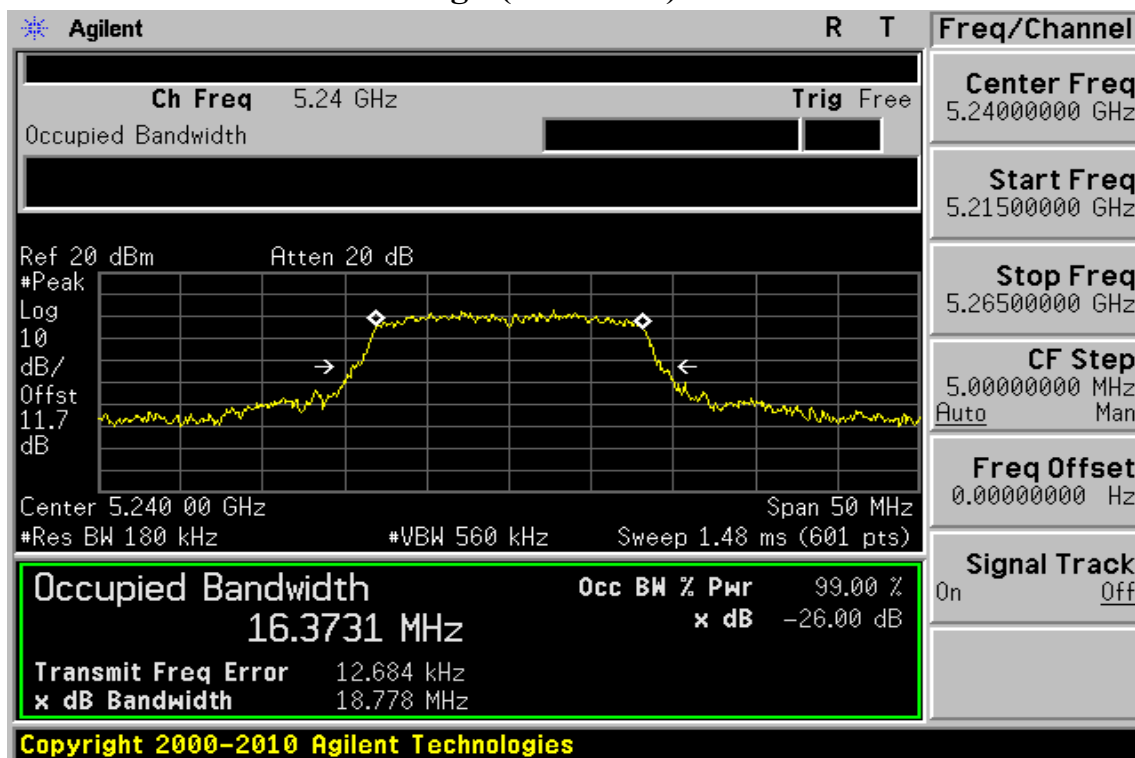


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26dB Band Width Test Data CH-High (5240MHz)

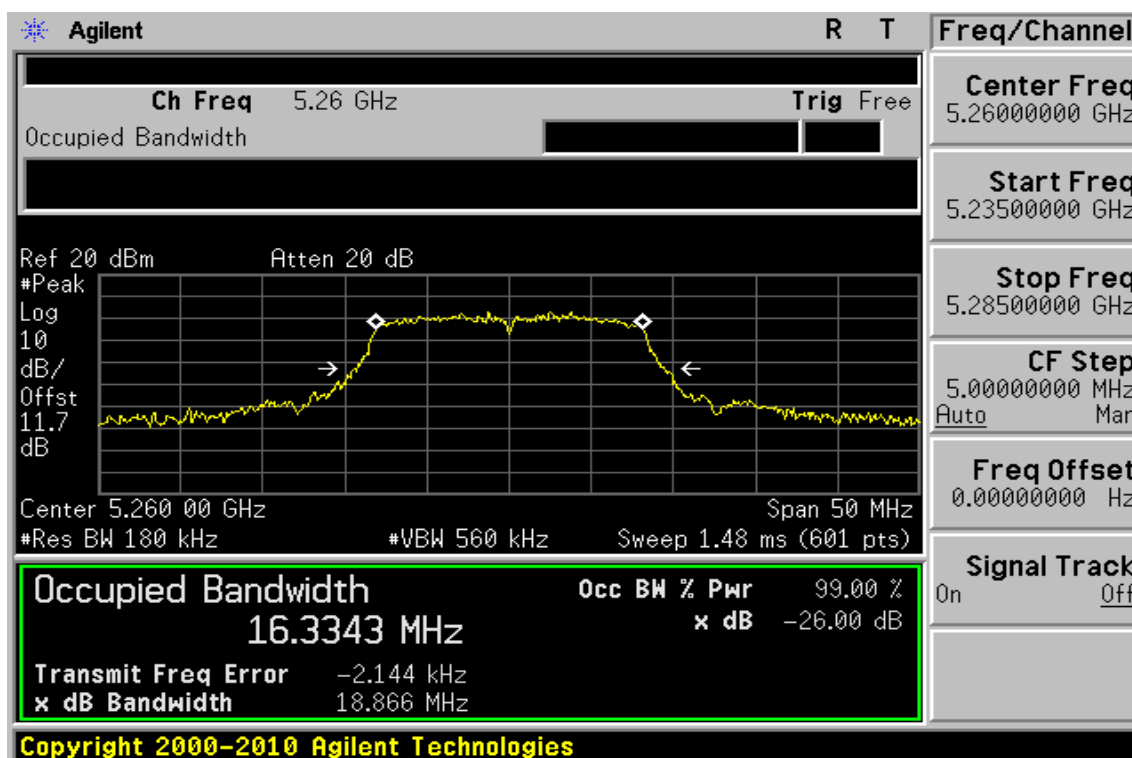


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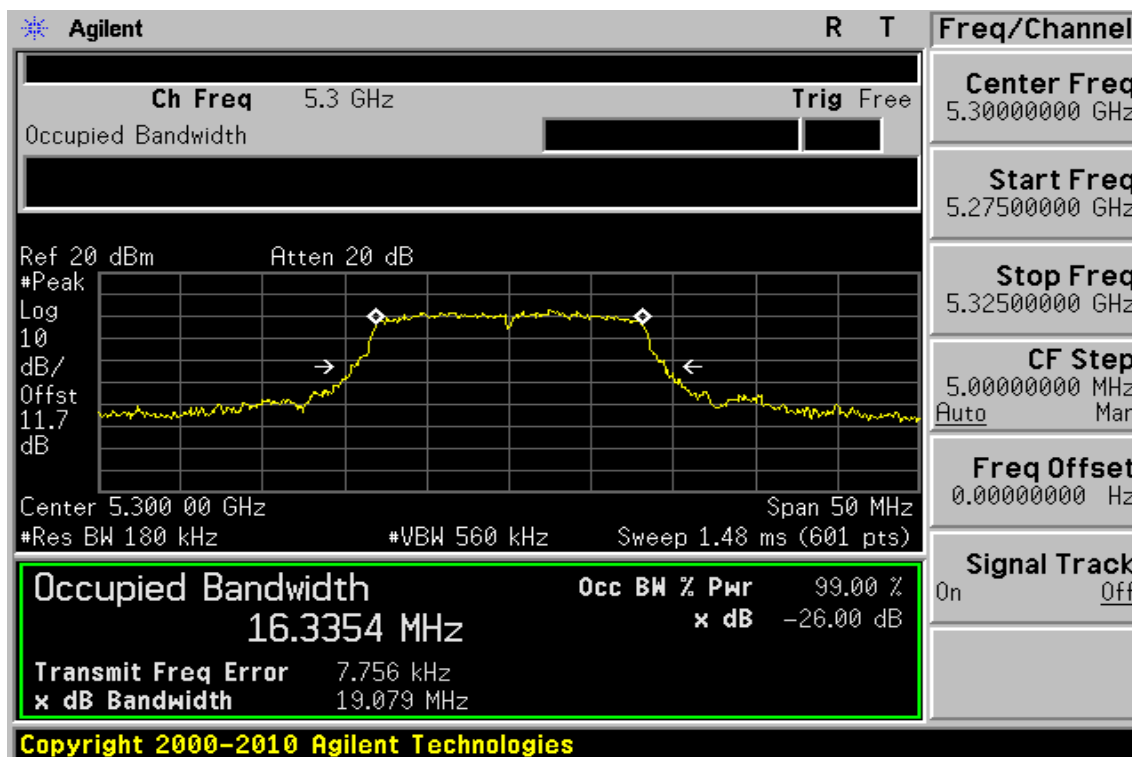
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802.11a, 5250~5350 MHz 26dB Band Width Test Data CH-Low (5260MHz)



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

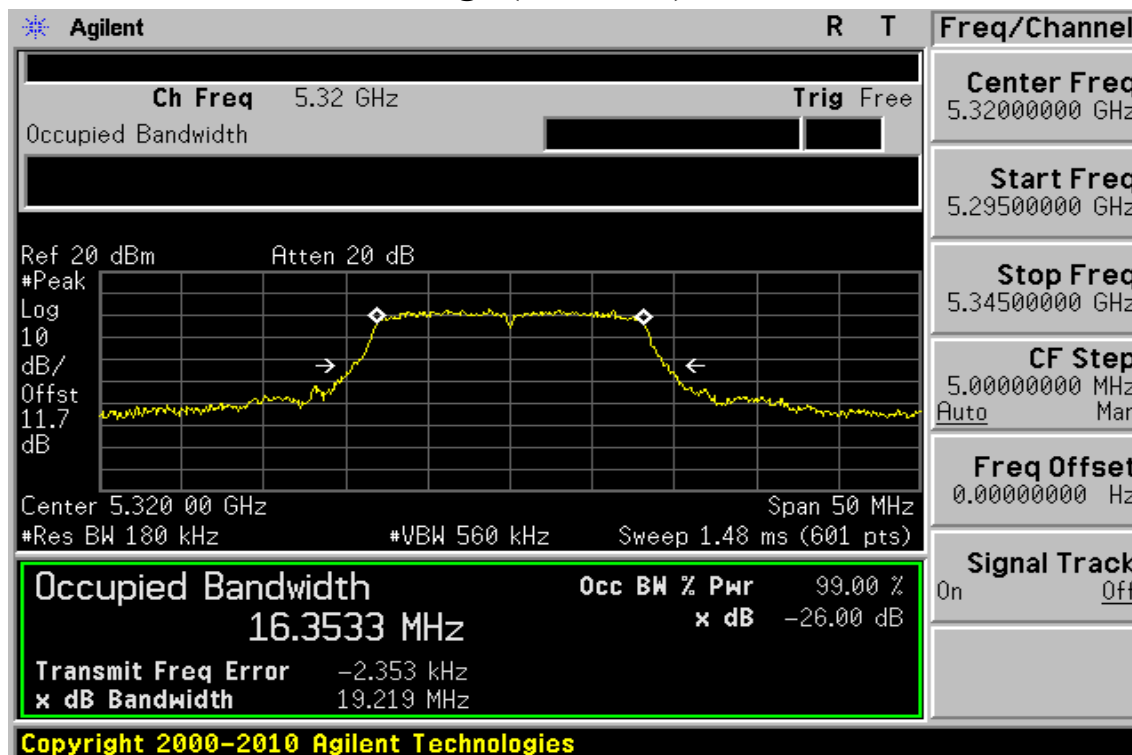


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26dB Band Width Test Data CH-High (5320MHz)



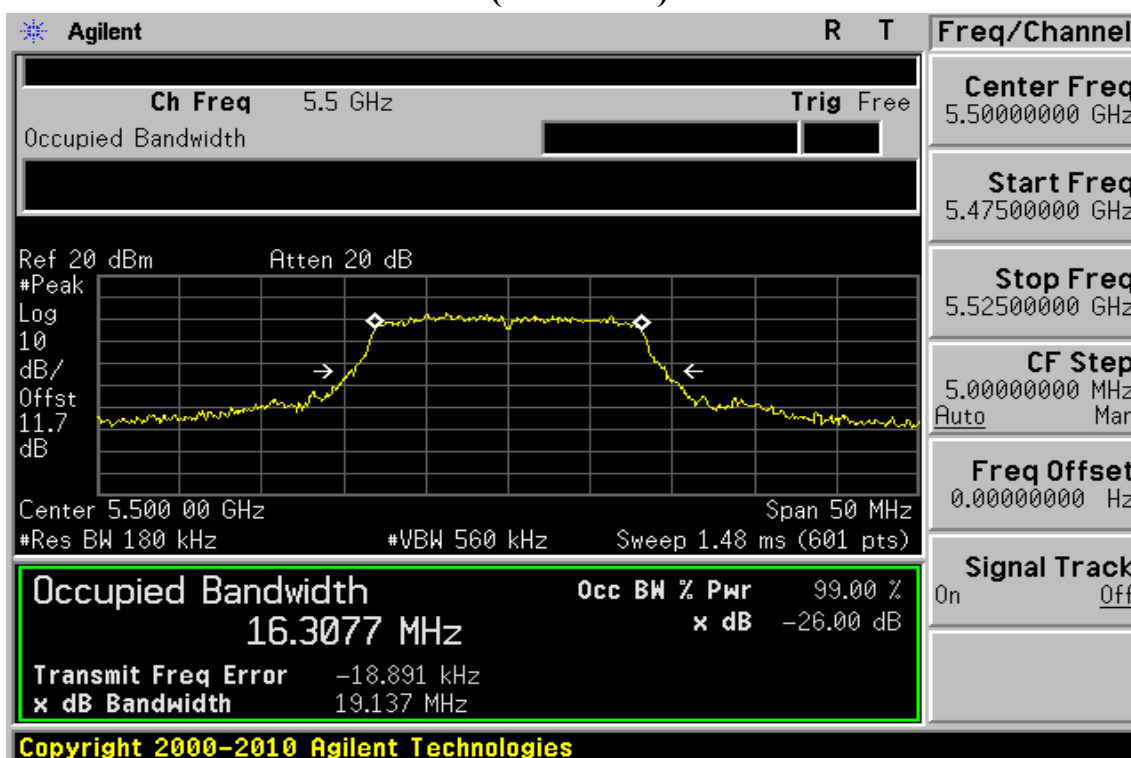
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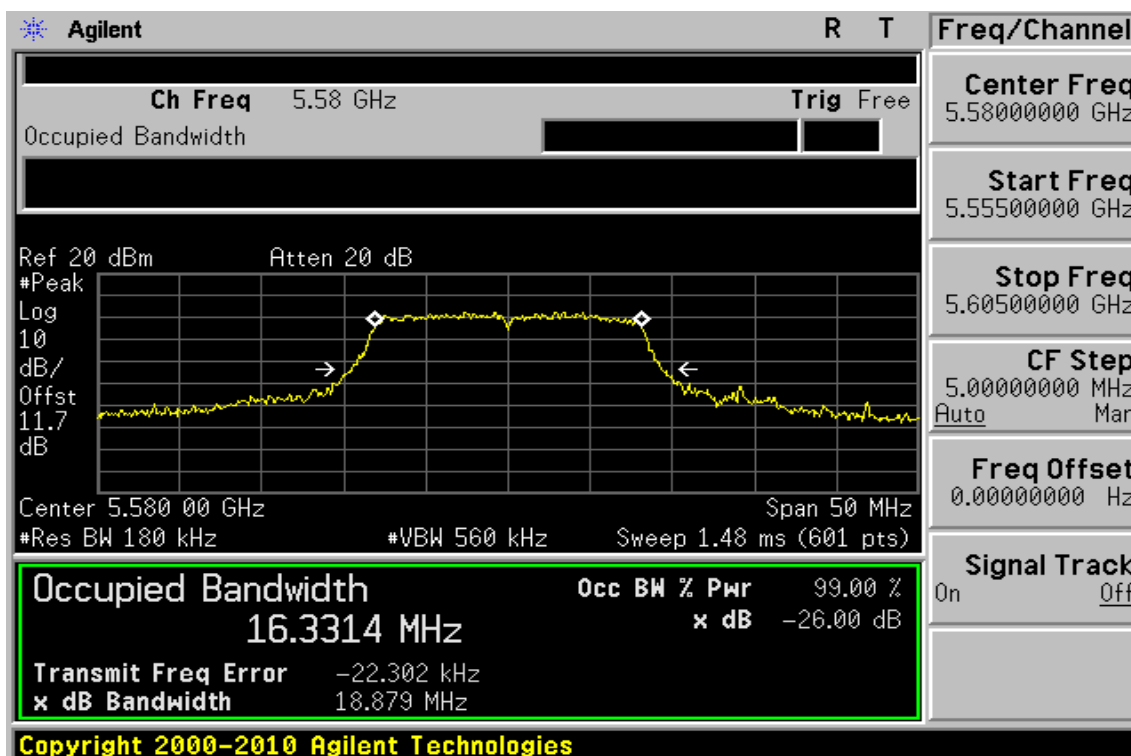
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802.11a, 5470~5725 MHz

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



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

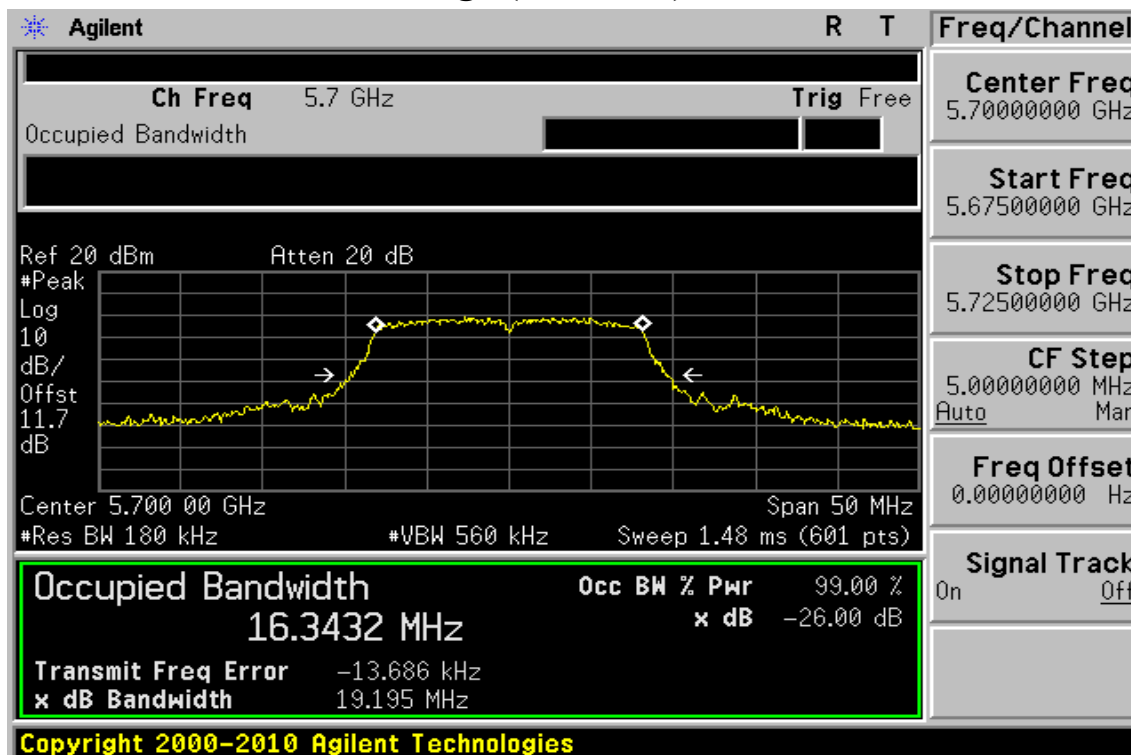


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26dB Band Width Test Data CH-High (5700MHz)

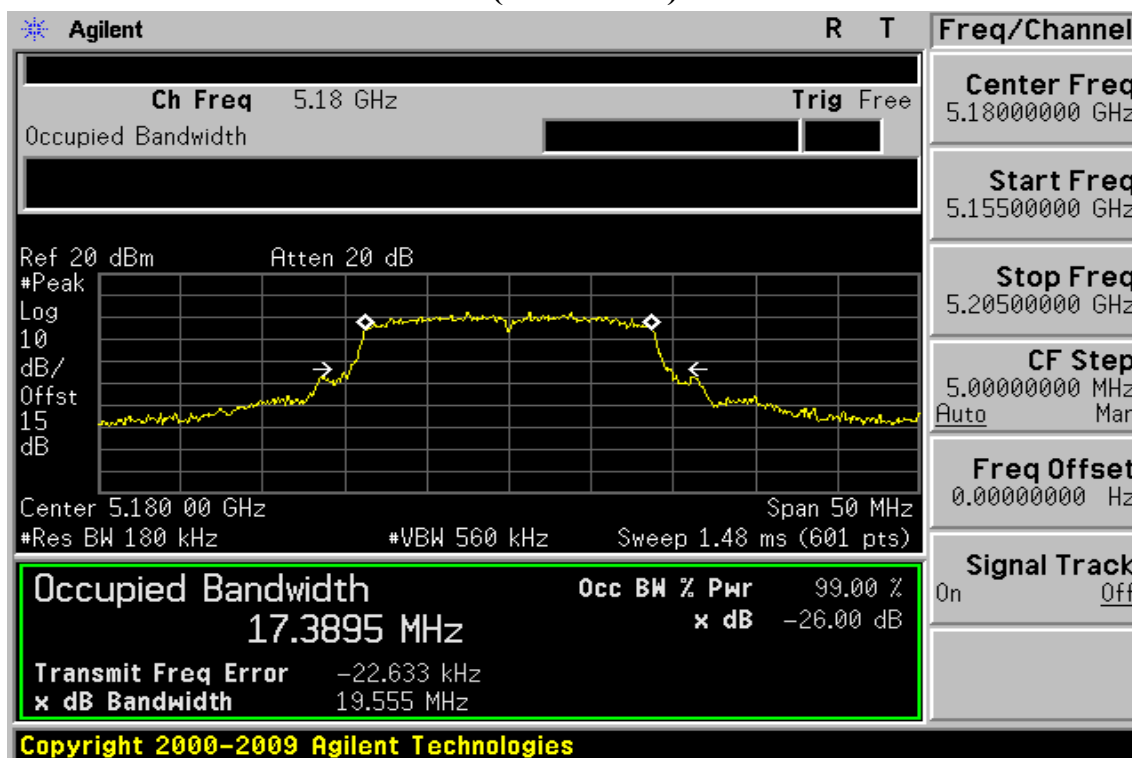


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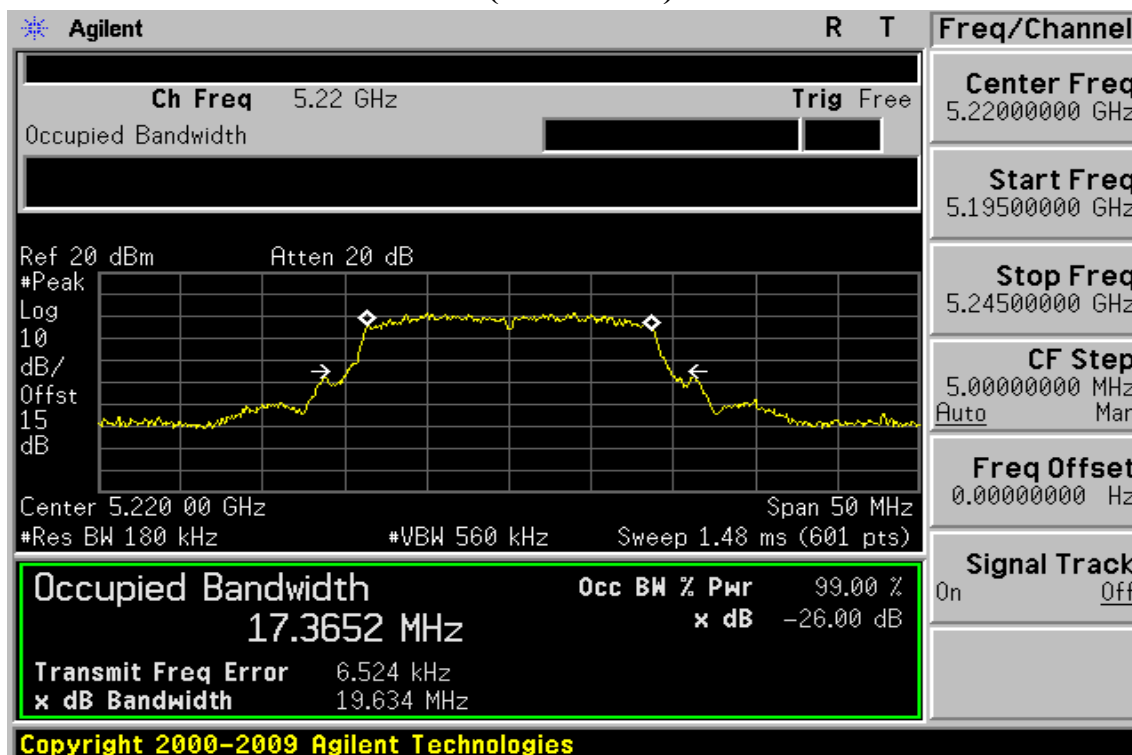
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802.11n HT20, 5150~5250 MHz, MIMO-Main 26dB Band Width Test Data CH-Low (5180 MHz)



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

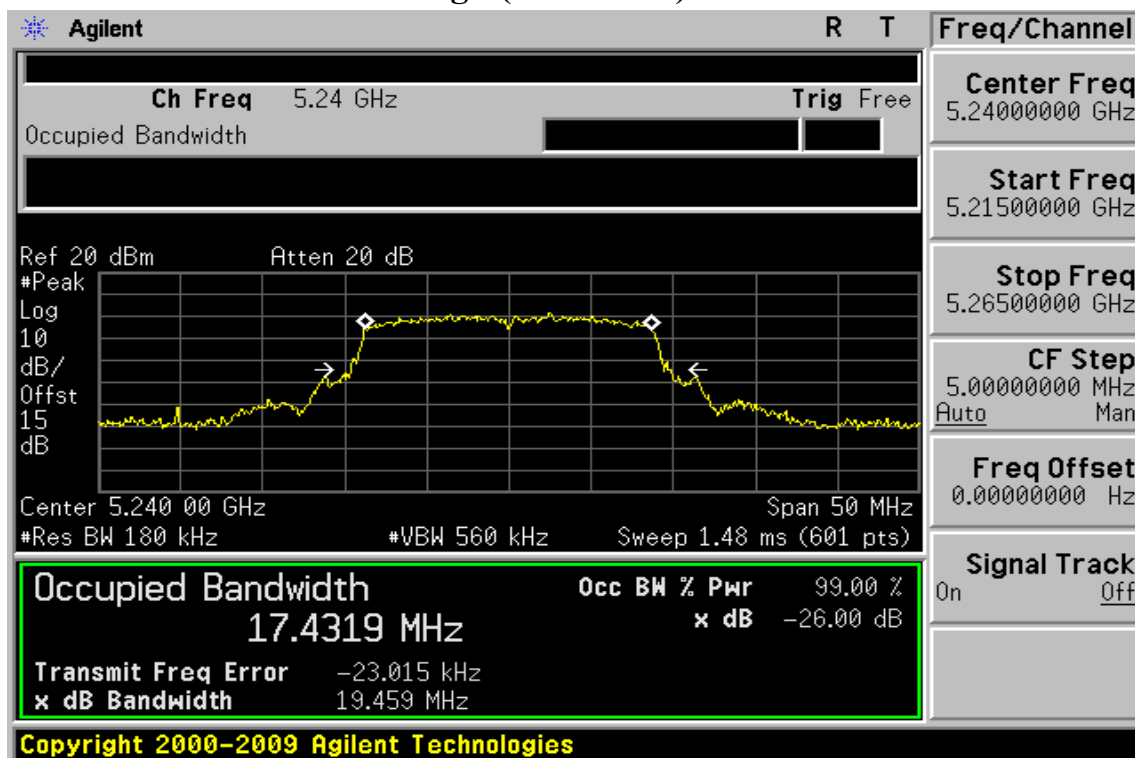


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26dB Band Width Test Data CH-High (5240 MHz)

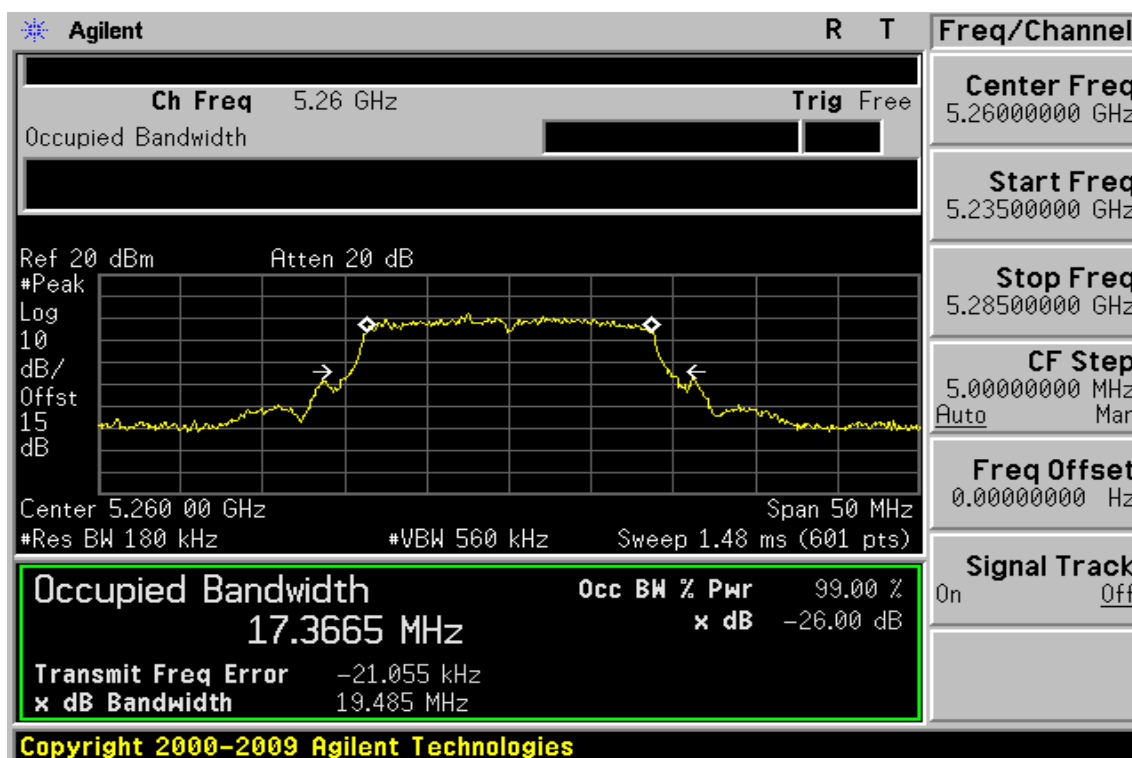


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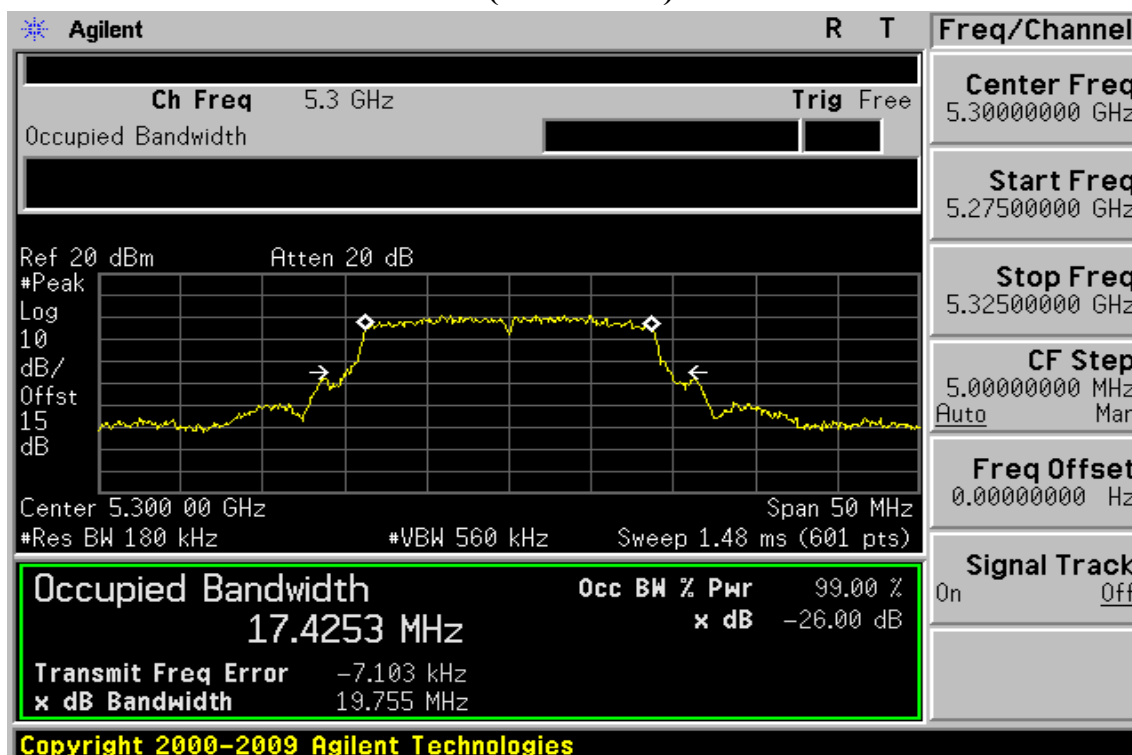
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802.11n HT20, 5250~5350 MHz 26dB Band Width Test Data CH-Low (5260 MHz)



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

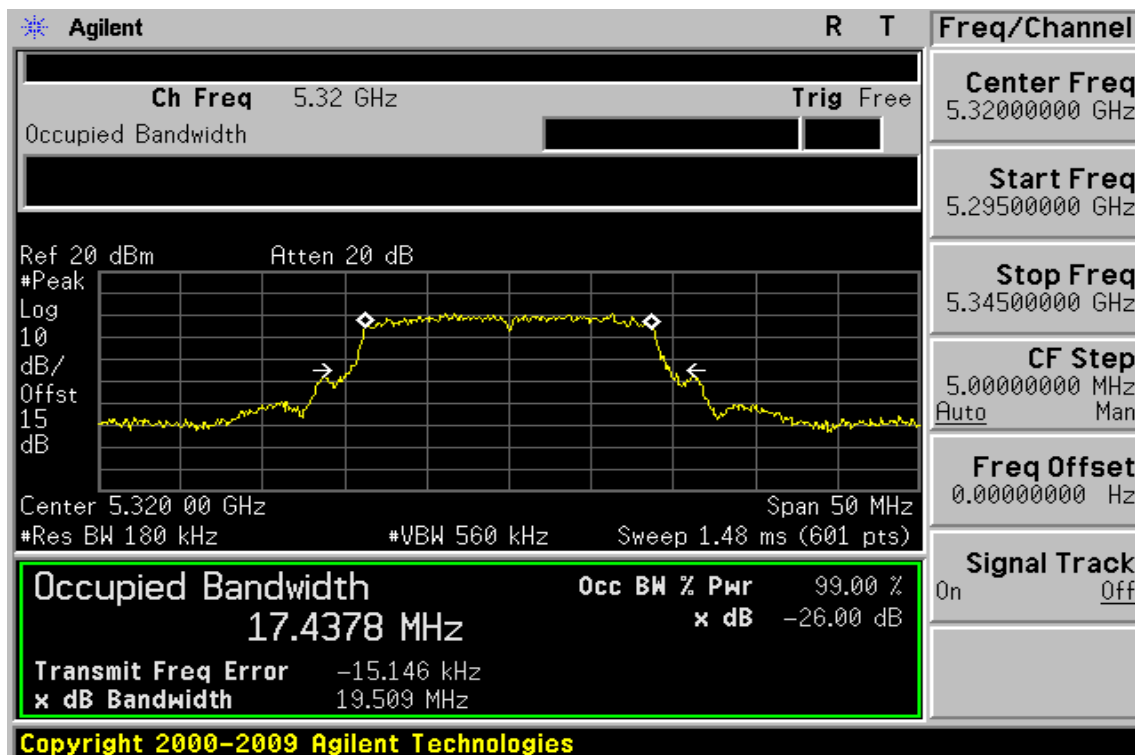


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26dB Band Width Test Data CH-High (5320 MHz)



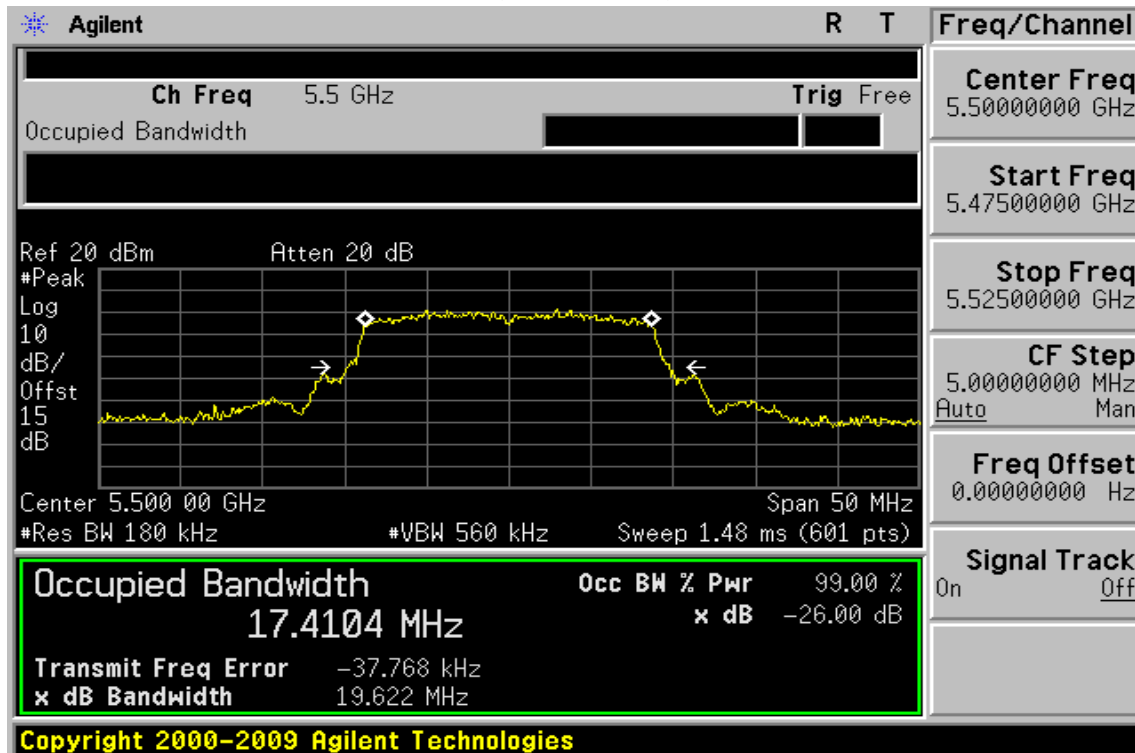
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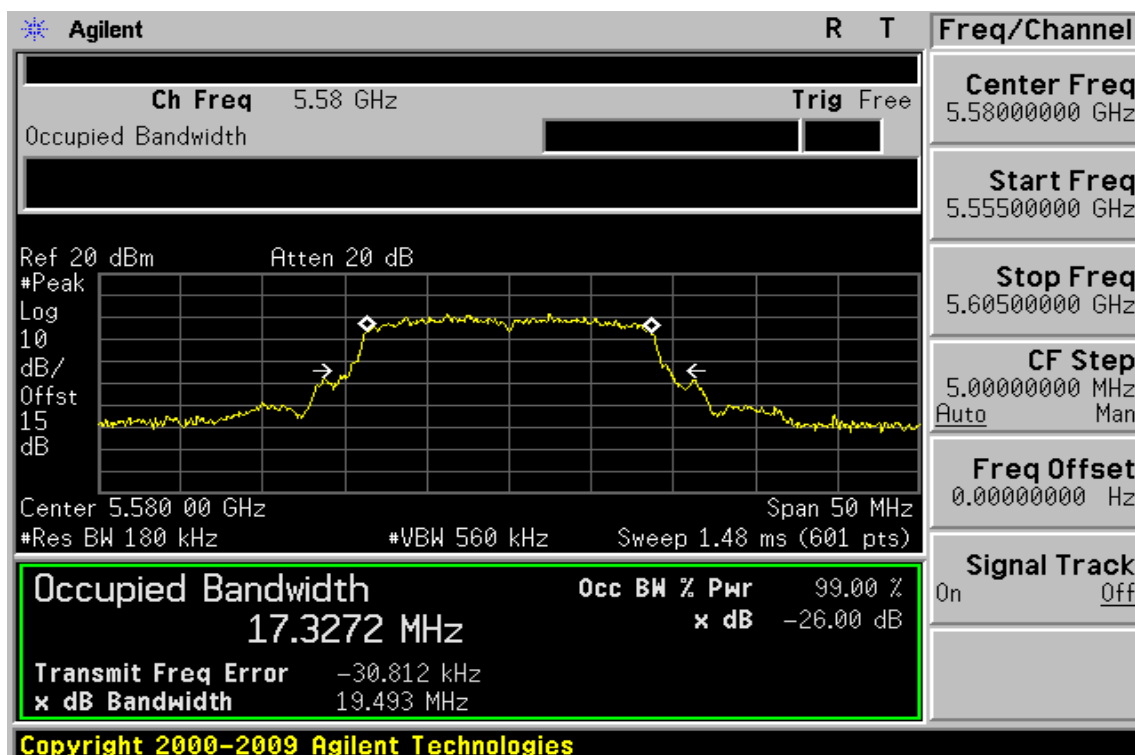
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802.11n HT20, 5470~5725 MHz

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



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

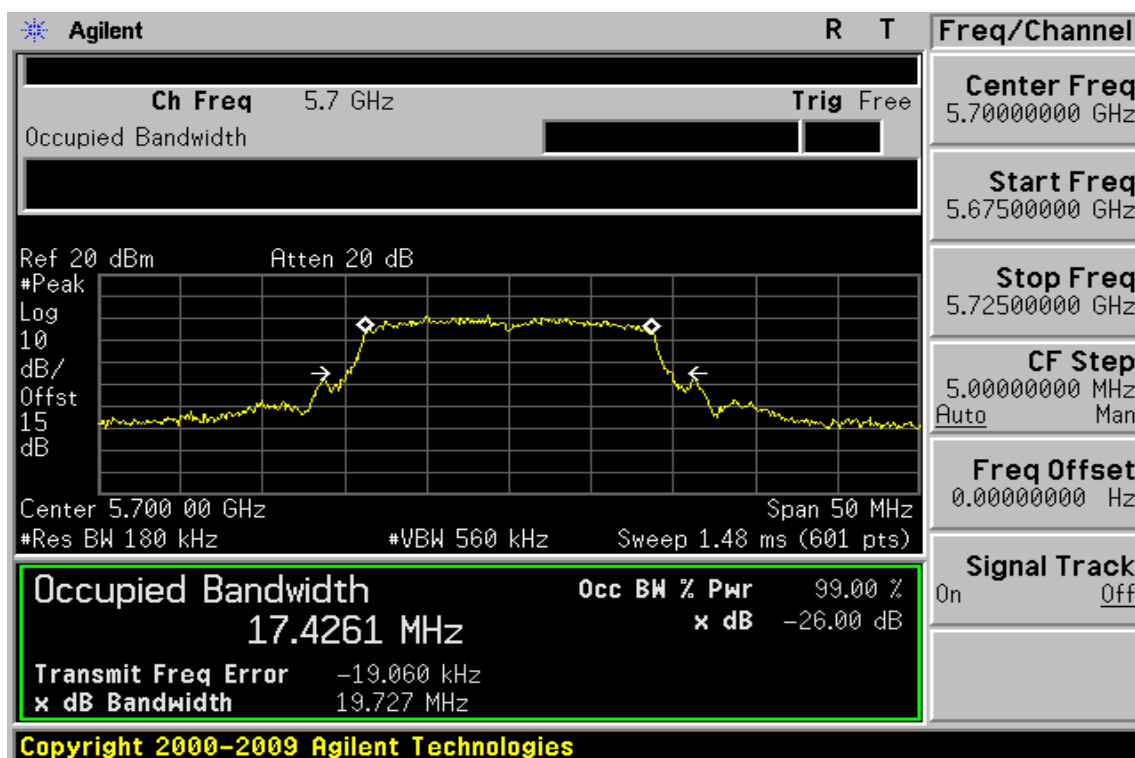


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26dB Band Width Test Data CH-High (5700 MHz)

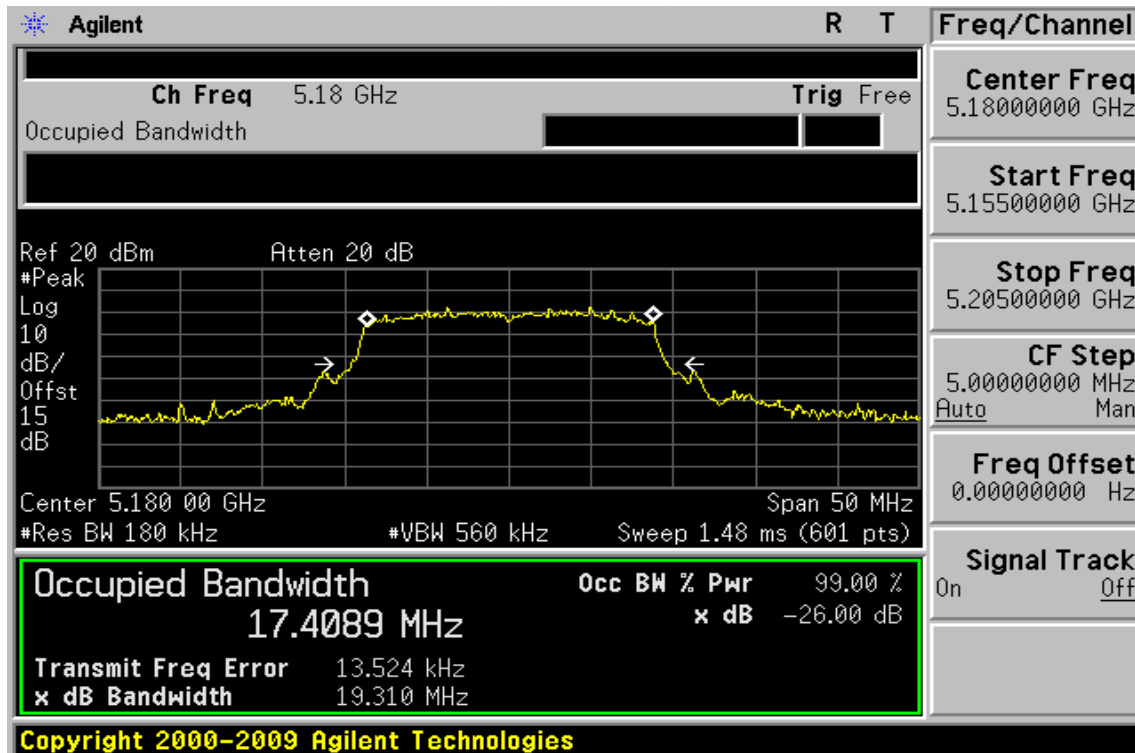


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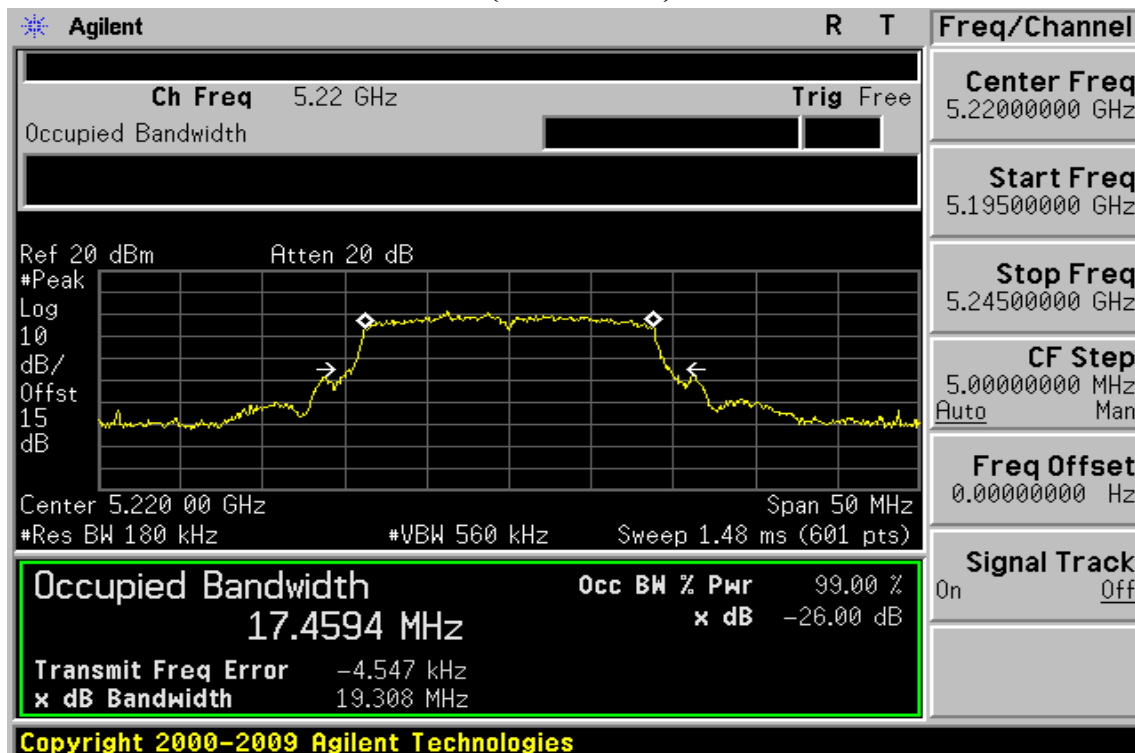
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802.11n HT20, 5150~5250 MHz, MIMO-Aux 26dB Band Width Test Data CH-Low (5180 MHz)



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

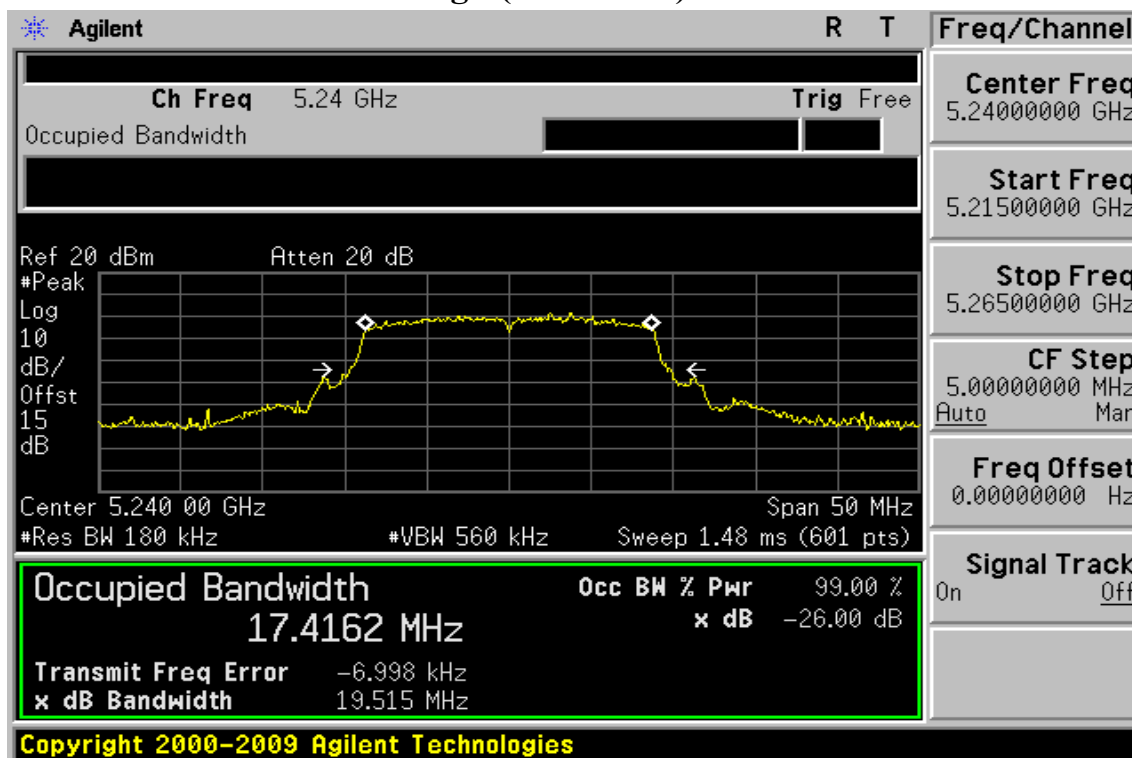


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26dB Band Width Test Data CH-High (5240 MHz)

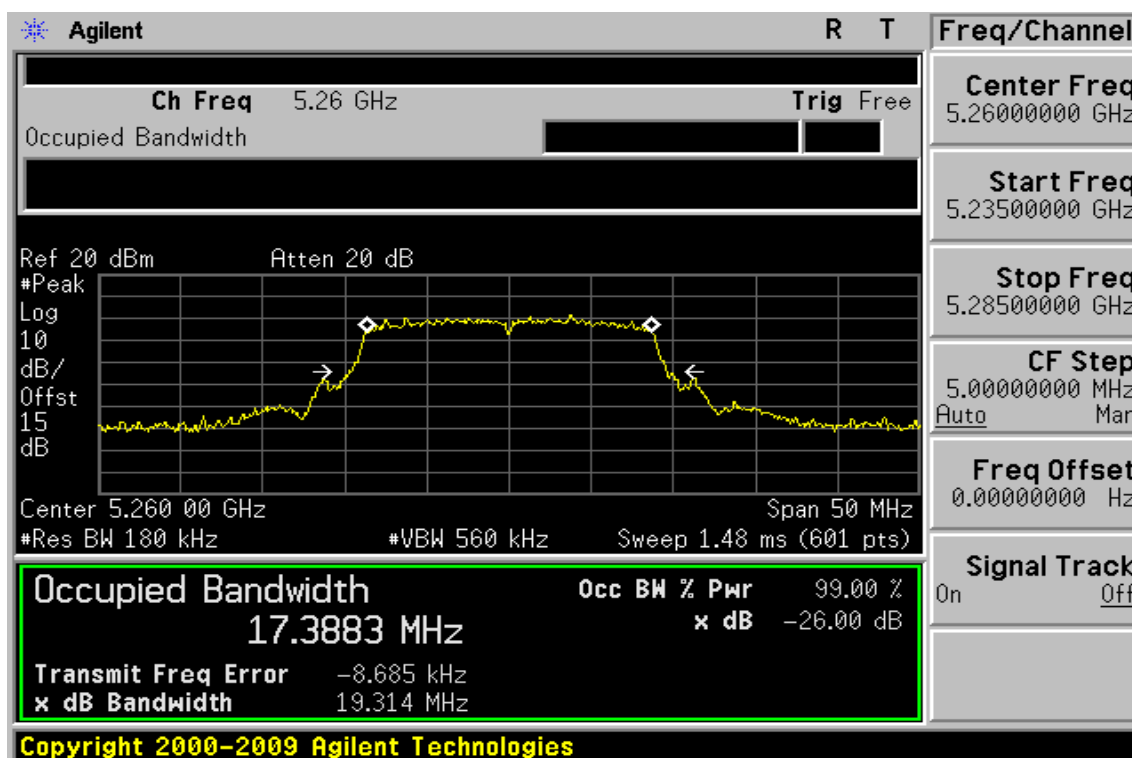


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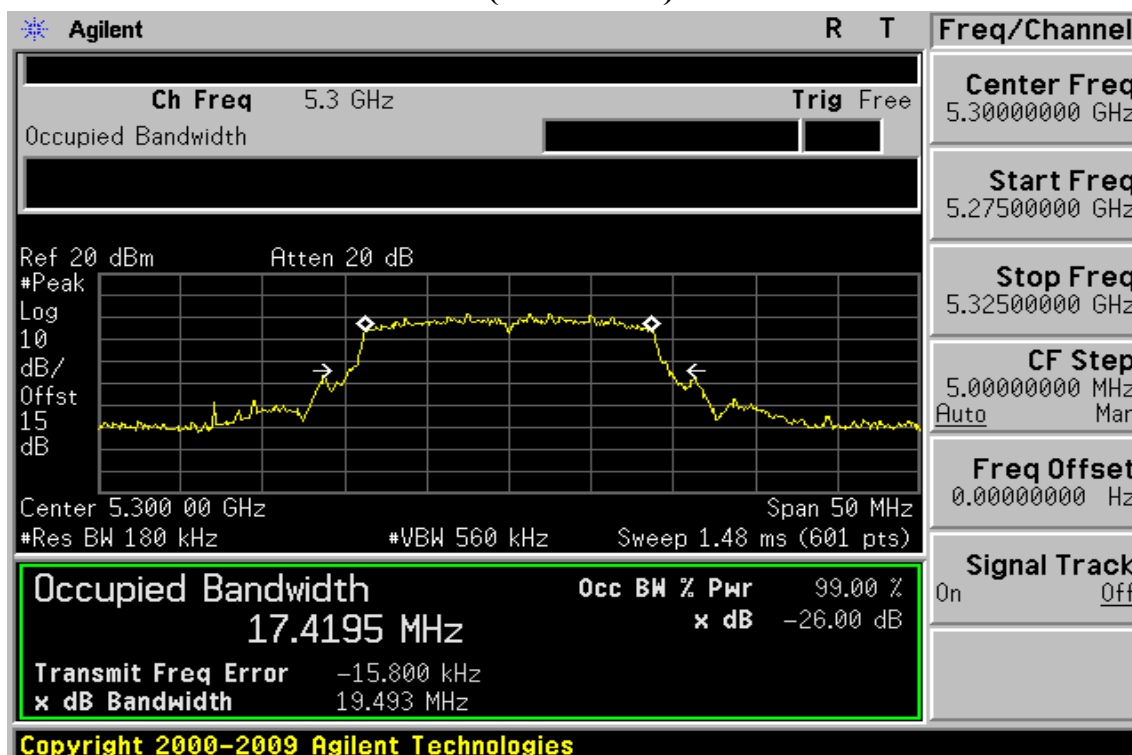
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802.11n HT20, 5250~5350 MHz 26dB Band Width Test Data CH-Low (5260 MHz)



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

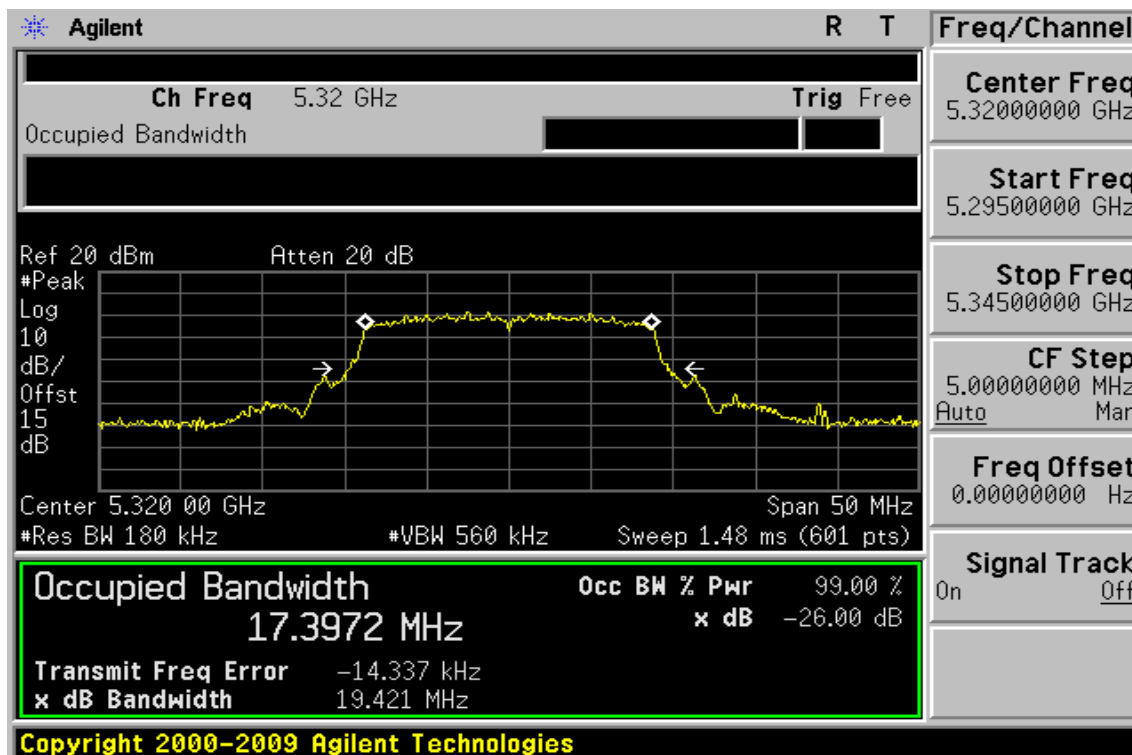


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26dB Band Width Test Data CH-High (5320 MHz)



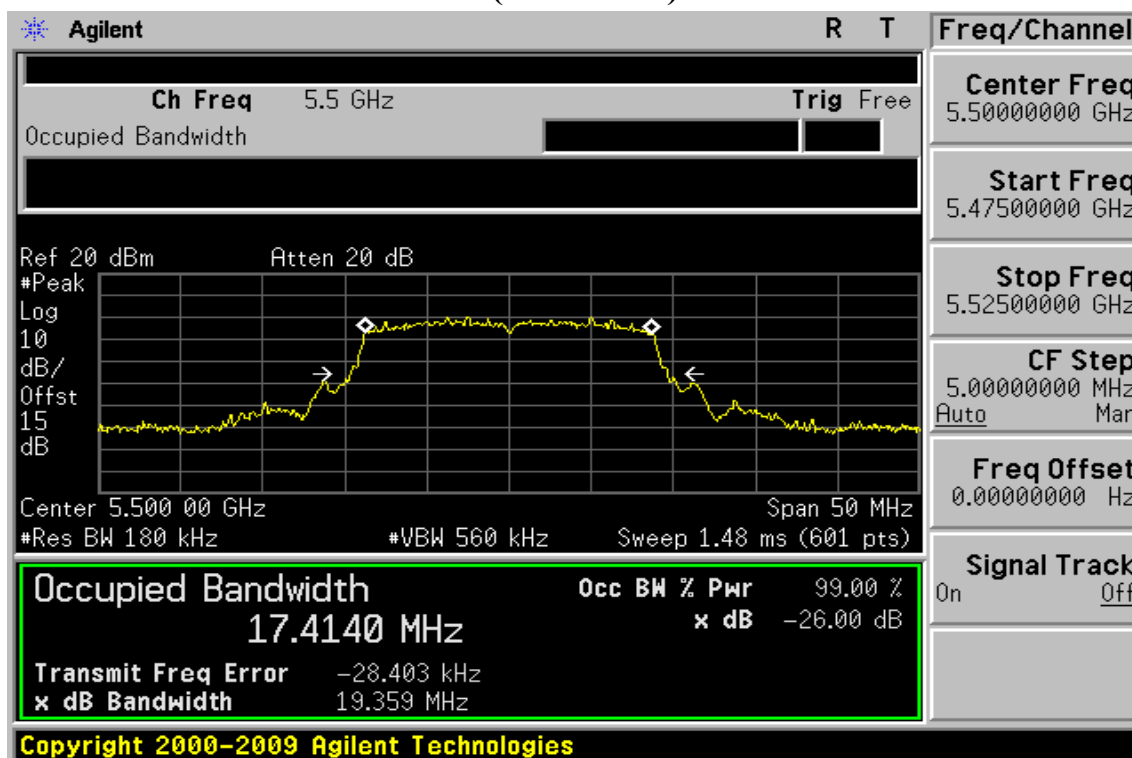
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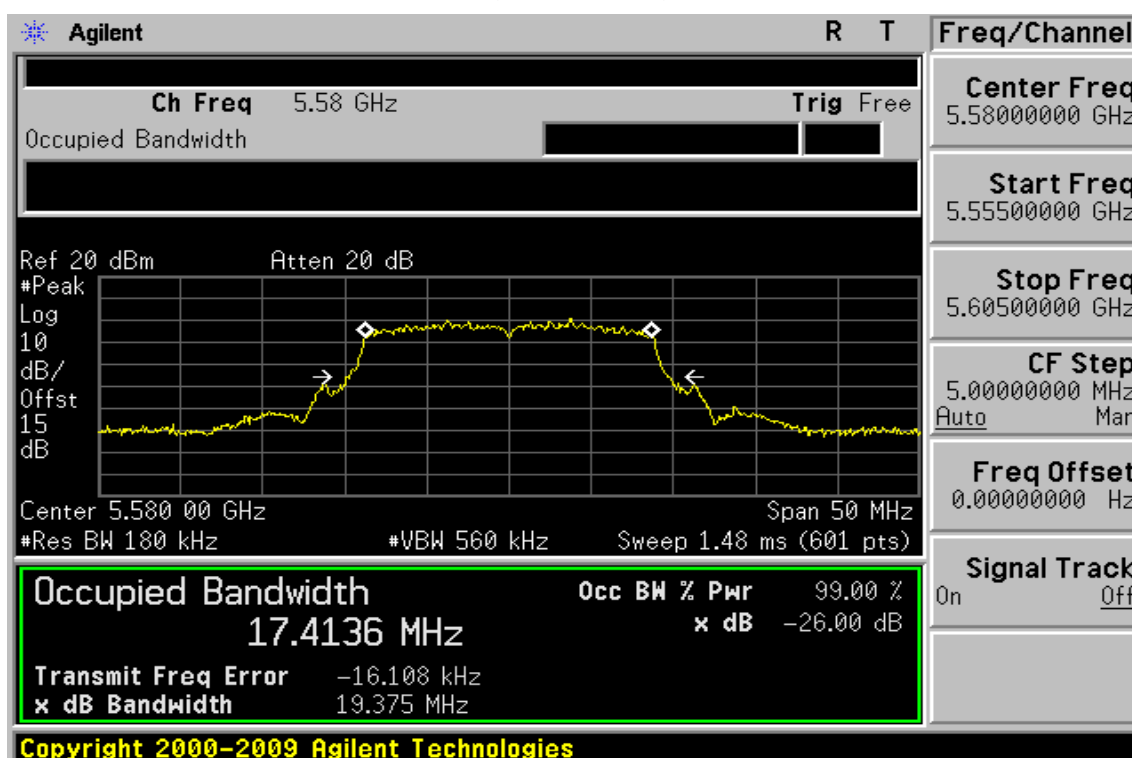
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802.11n HT20, 5470~5725 MHz

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



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

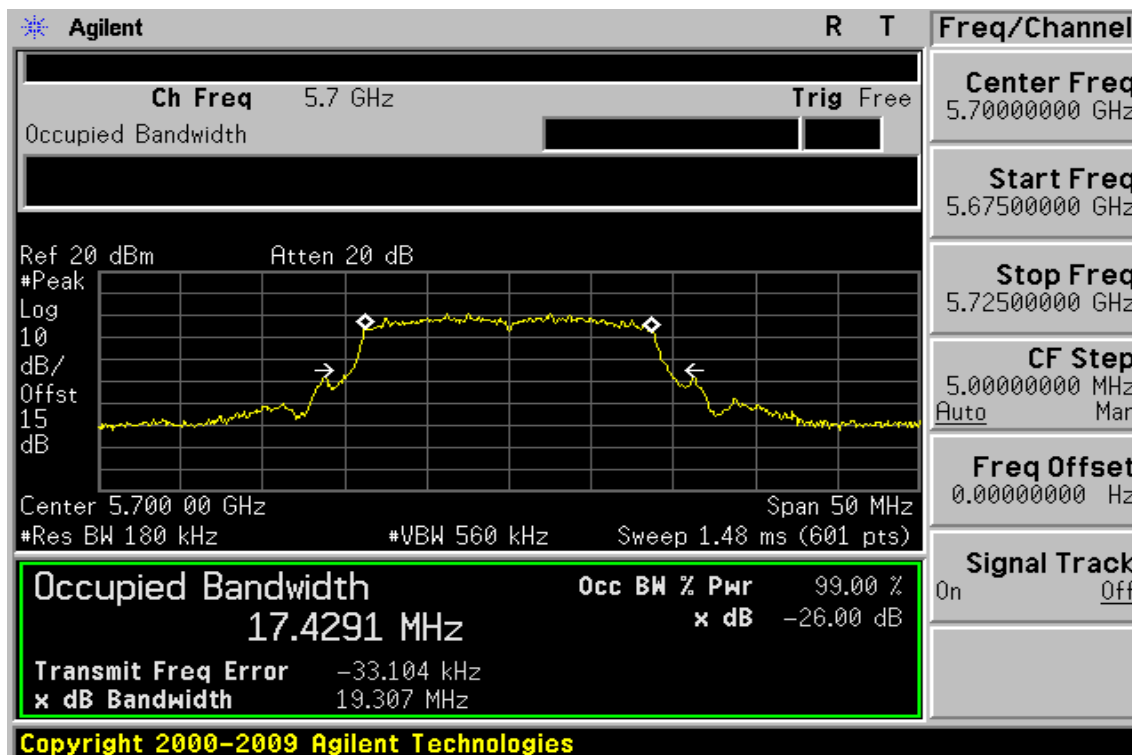


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26dB Band Width Test Data CH-High (5700 MHz)

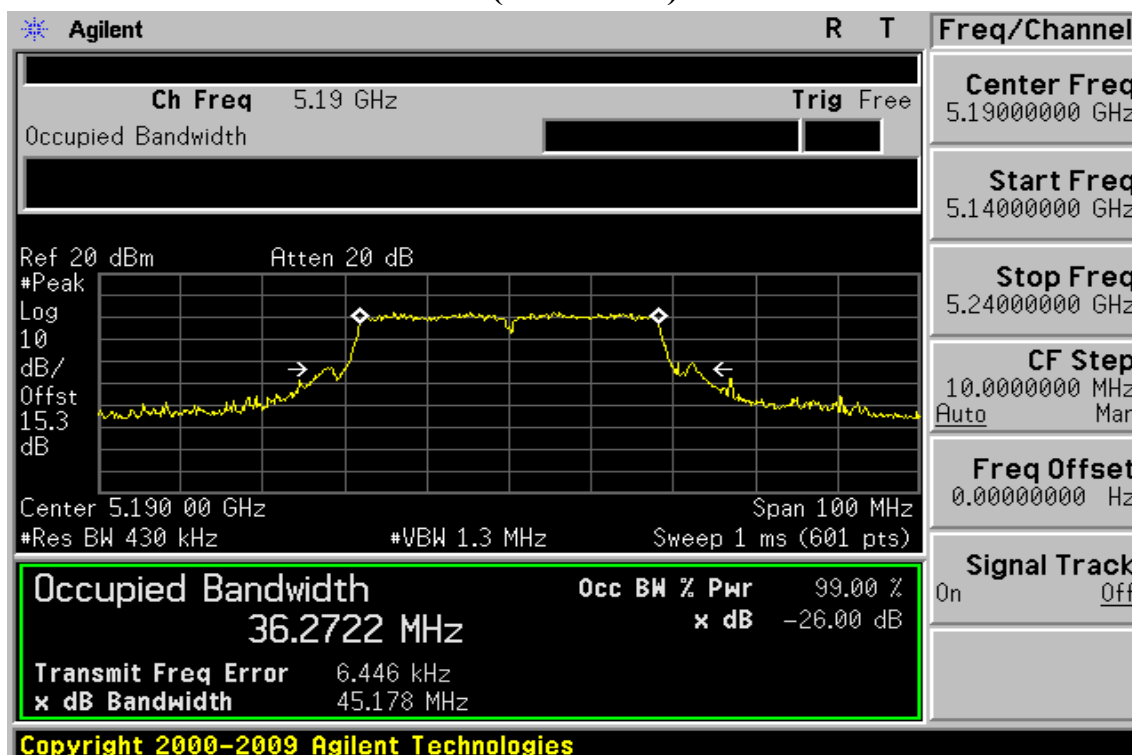


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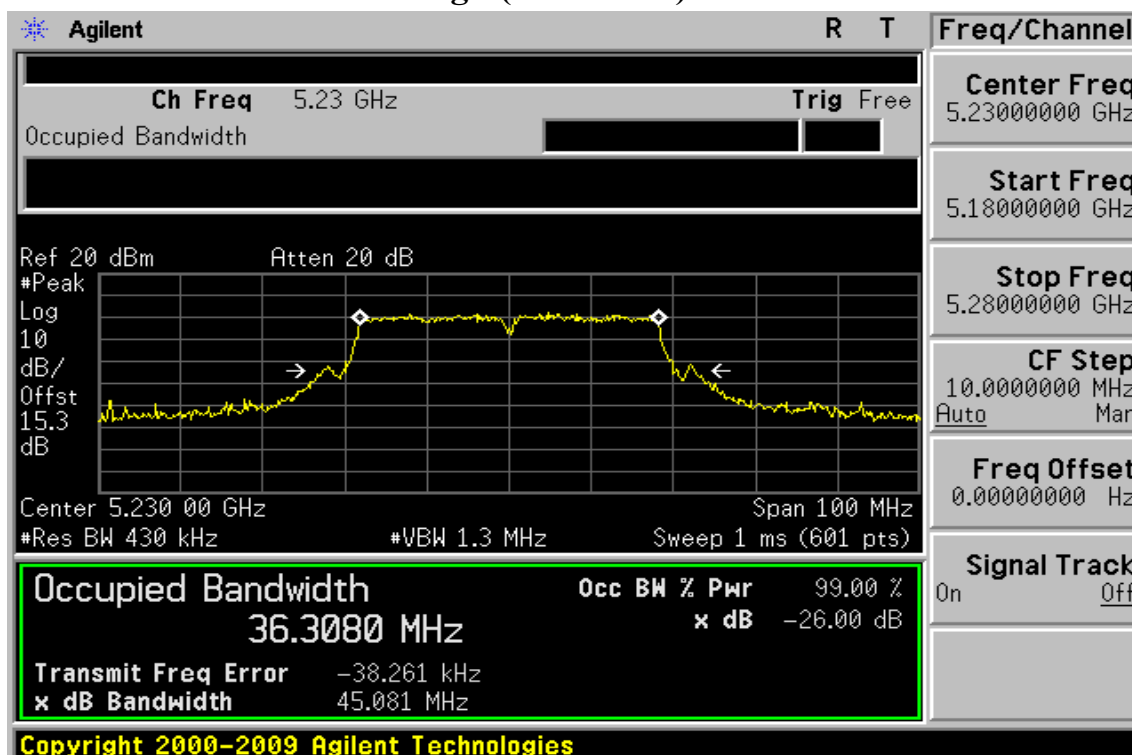
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802.11n HT40, 5150~5250 MHz, MIMO-Main 26dB Band Width Test Data CH-Low (5190 MHz)



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



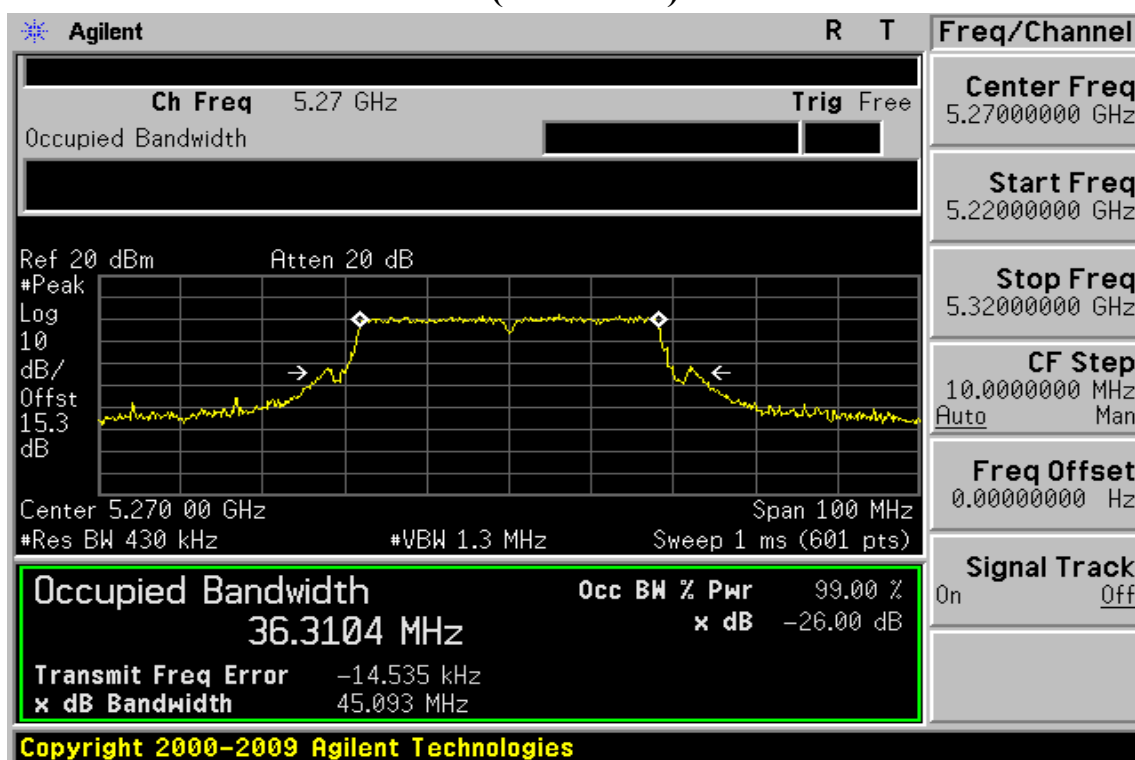
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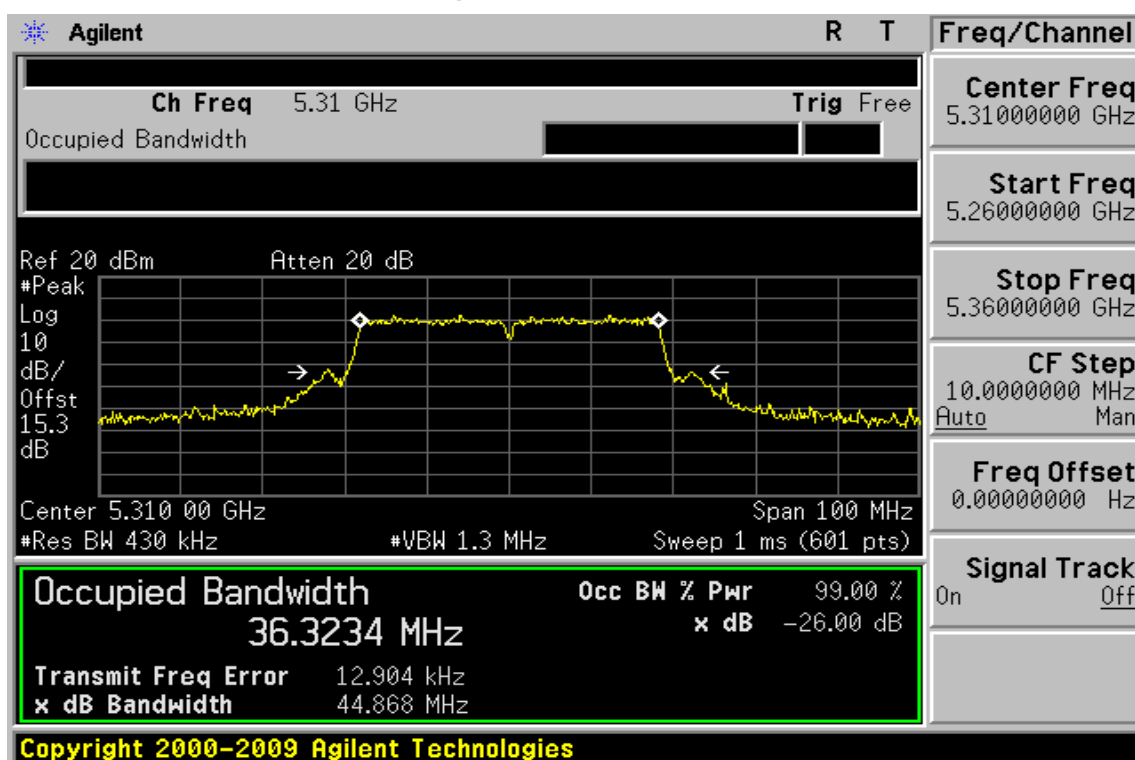
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802.11n HT40, 5250~5350 MHz

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



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



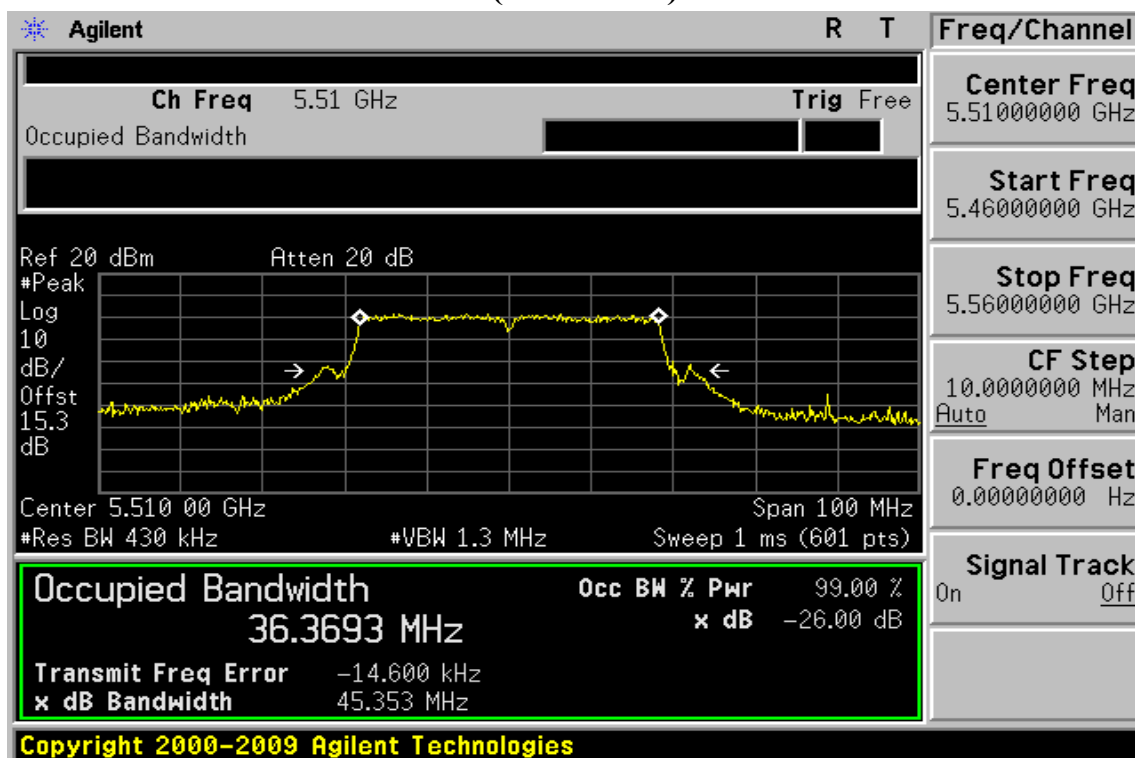
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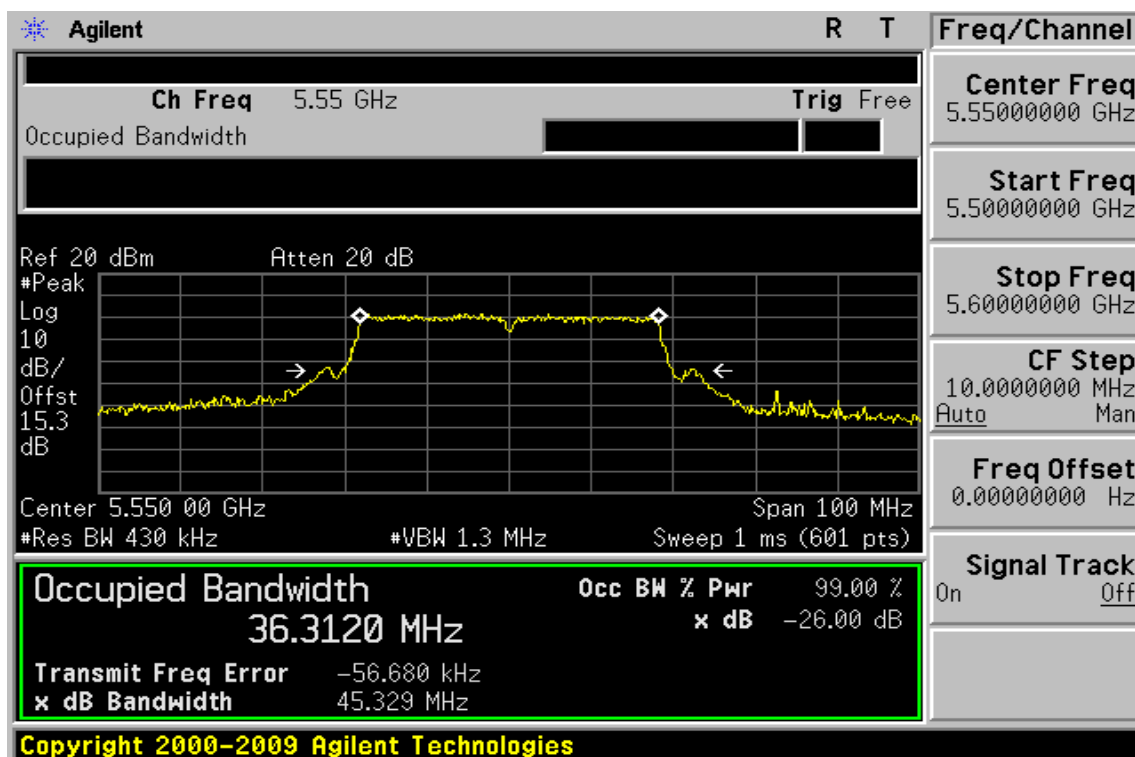
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802.11n HT40, 5470~5725 MHz

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



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

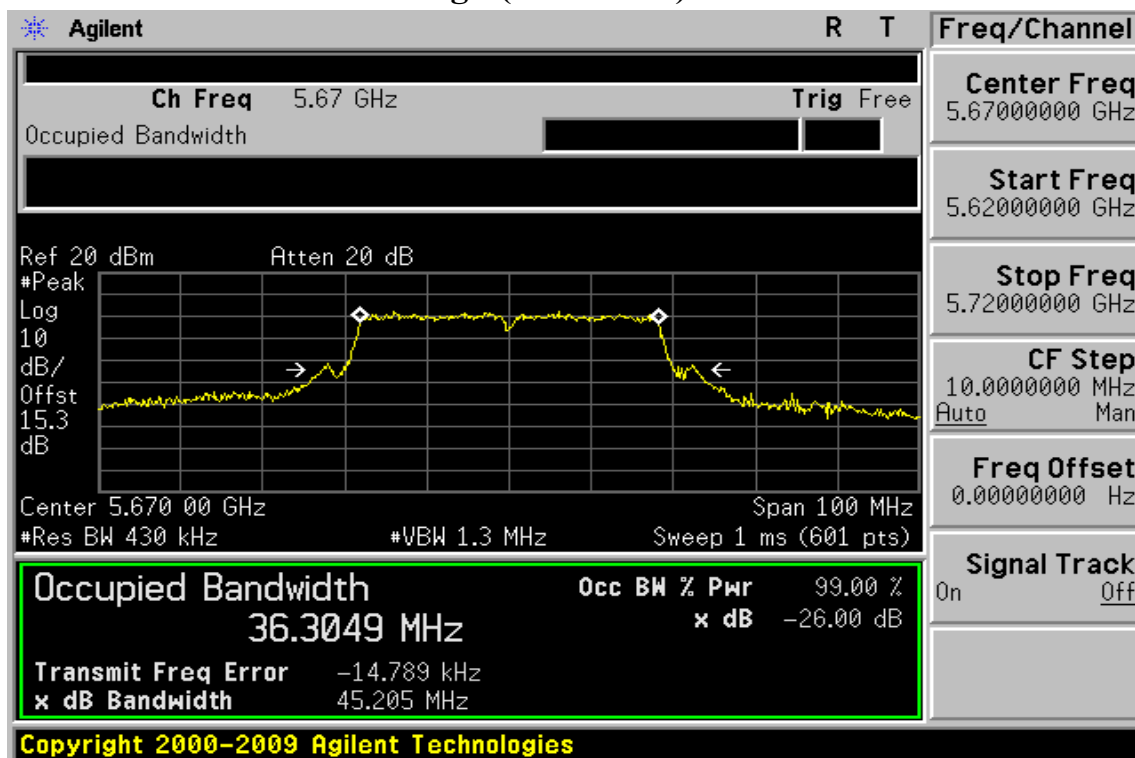


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26dB Band Width Test Data CH-High (5670 MHz)

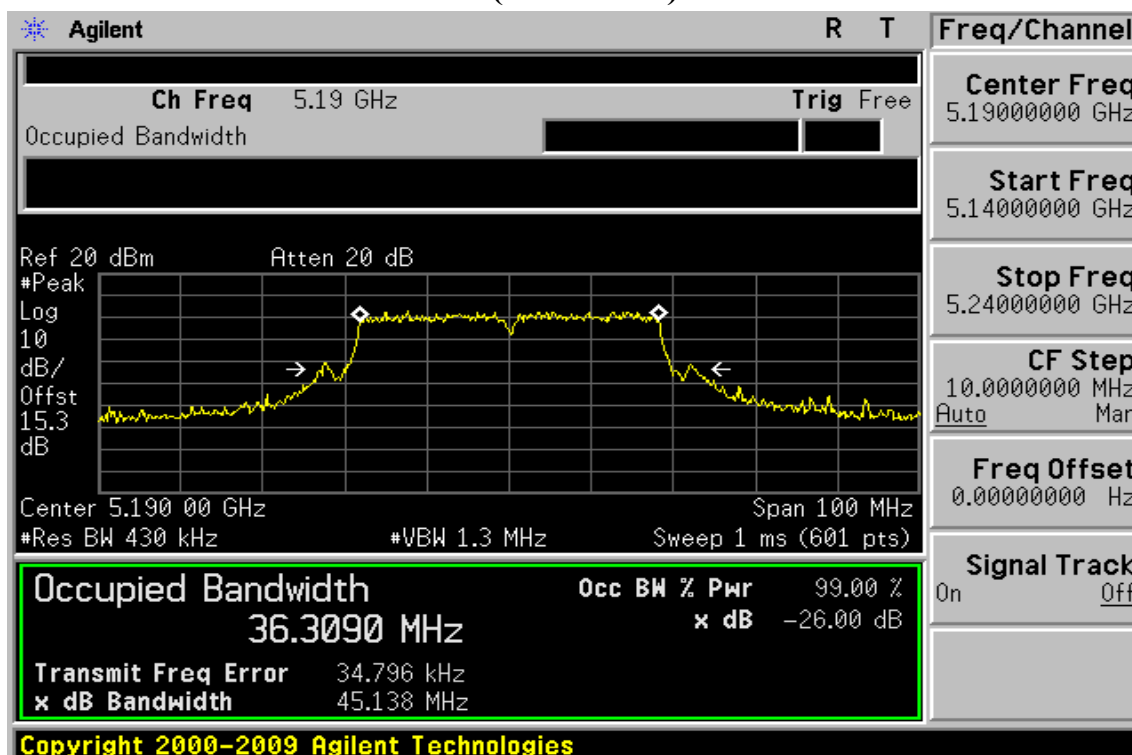


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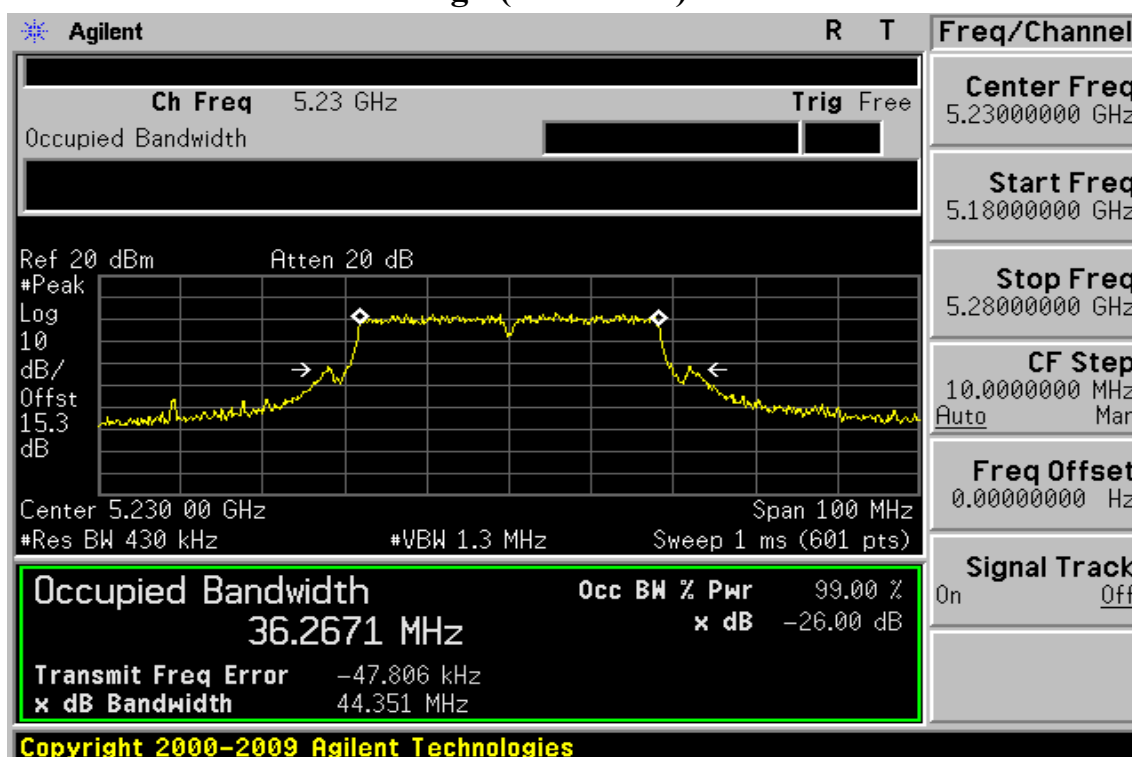
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802.11n HT40, 5150~5250 MHz, MIMO-Aux 26dB Band Width Test Data CH-Low (5190 MHz)



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

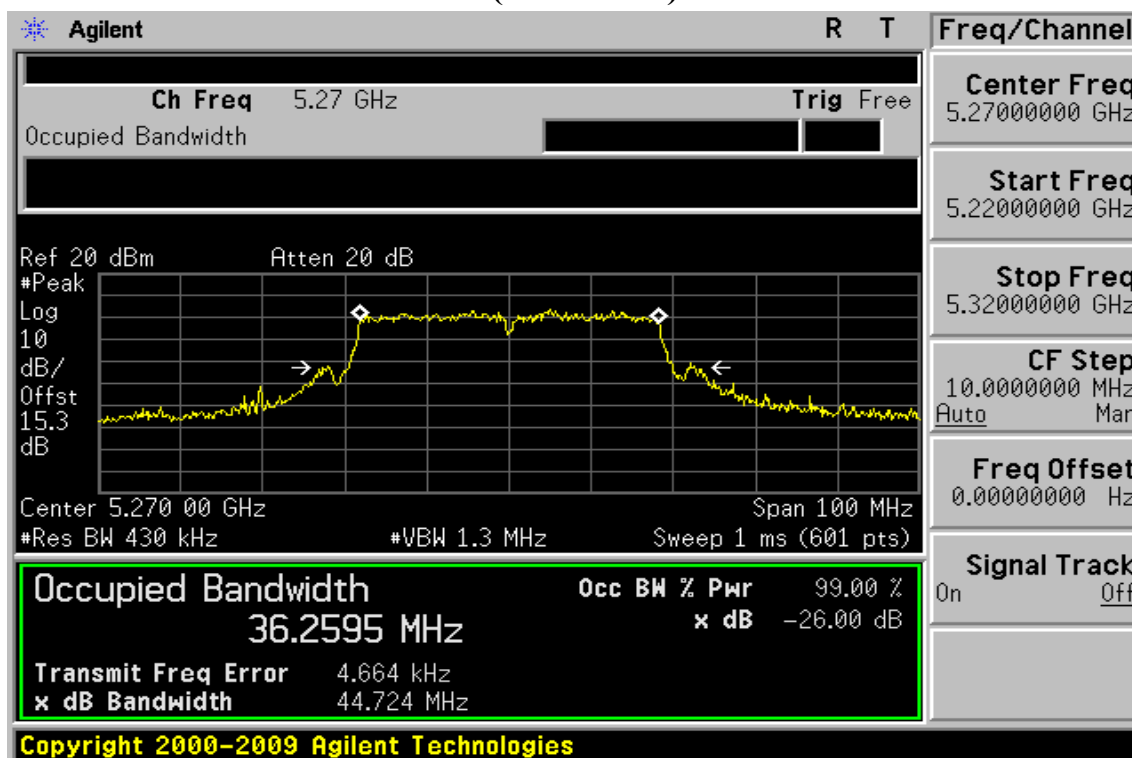


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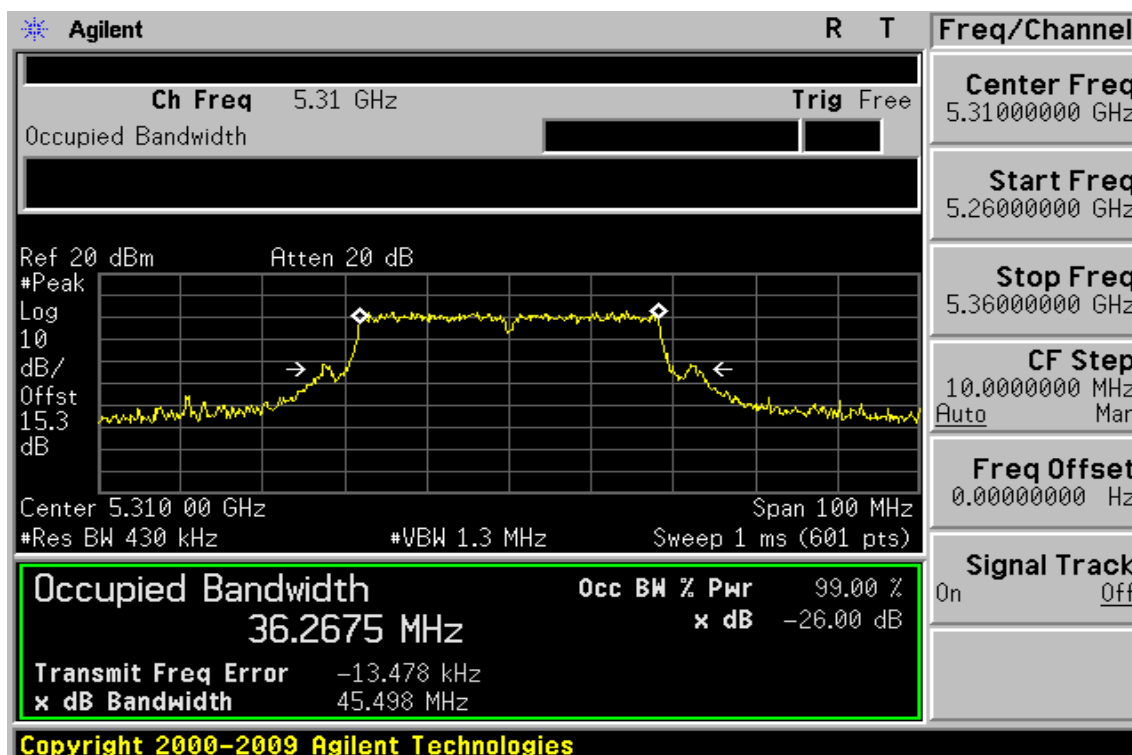
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802.11n HT40, 5250~5350 MHz 26dB Band Width Test Data CH-Low (5270 MHz)



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

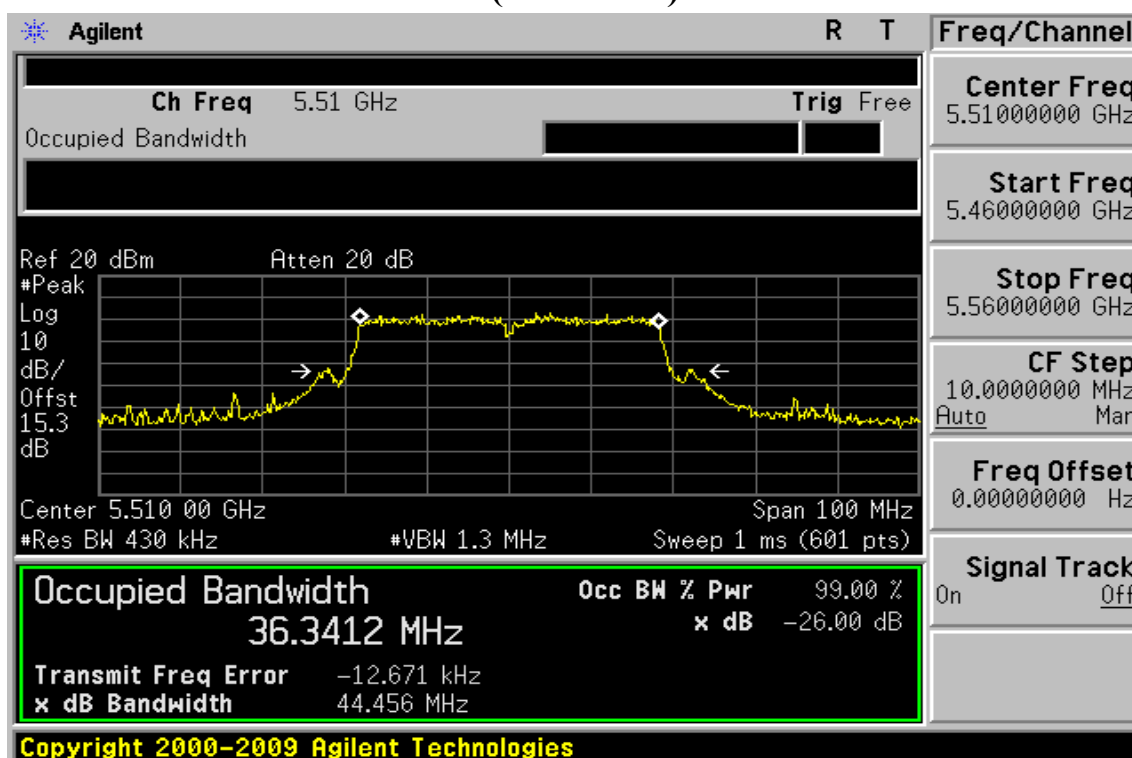


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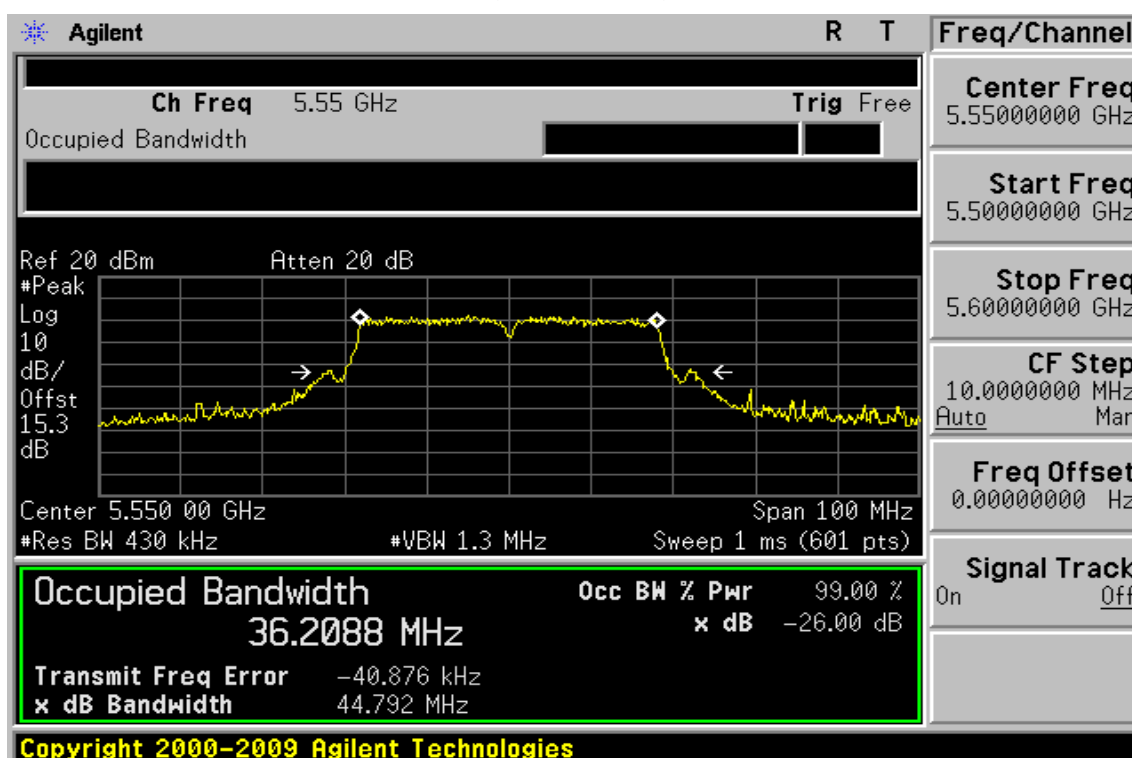
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802.11n HT40, 5470~5725 MHz 26dB Band Width Test Data CH-Low (5510 MHz)



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

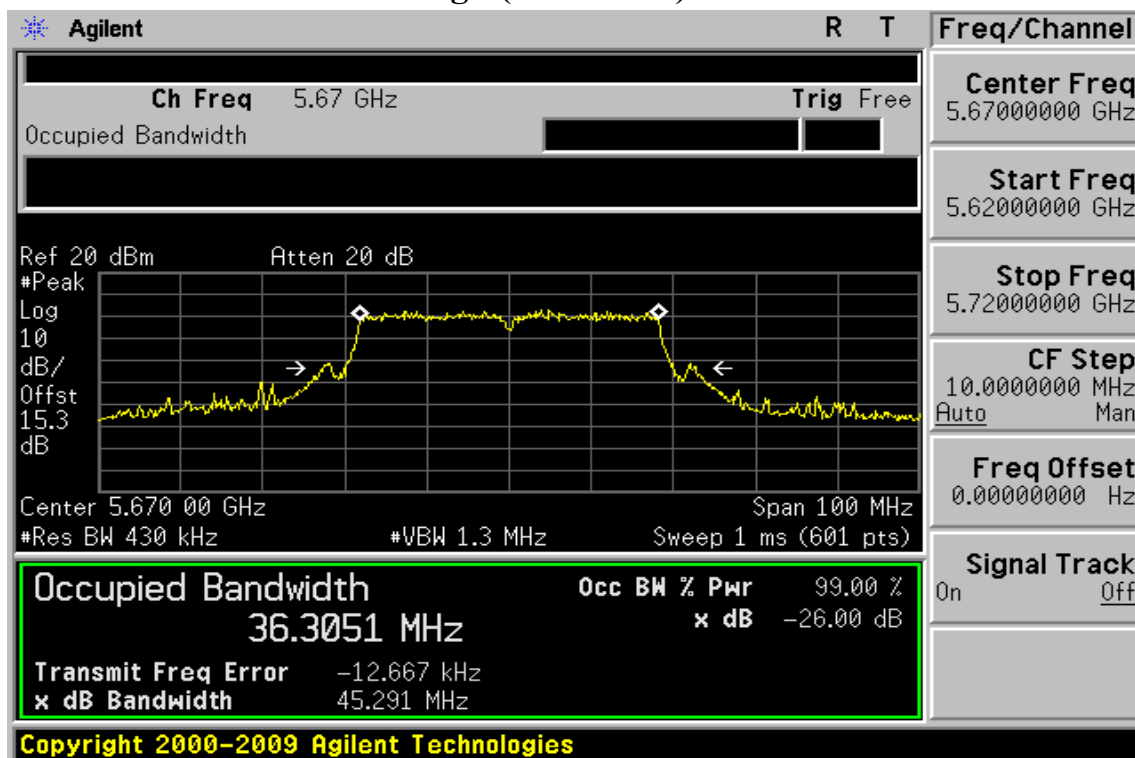


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26dB Band Width Test Data CH-High (5670 MHz)



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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 $17 \text{ dBm} + 10\log B$.

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

where B is the 26dB emission bandwidth in MHz.

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8.2 Measurement Procedure

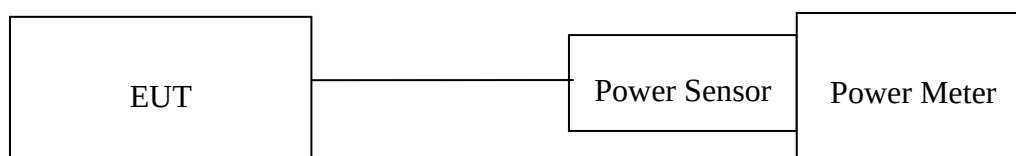
1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
3. Set the offset $10 \cdot \log(1/x)$, $a=0.21043$, $n_{HT20}=0.44986$, $n_{HT40}=0.78625$
4. Record the max. reading.
5. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.
6. employing step 1 to4 obtaining per-chain basis in MIMO operation, and sum the power in linear to result the output of MIMO operation at frequency of interest (,where MIMO is applicable).

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

8.3 Measurement Equipment Used:

Refer to section 7.3 for details.

8.4 Test Set-up:



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8.5 Measurement Result

802.11a

Cable loss = 0

The Maximum Output Power

CH	Frequency (MHz)	Data Rate								Required Limit
		6	9	12	18	24	36	48	54	
36	5180	13.20	13.18	13.04	12.89	12.74	12.68	12.62	12.55	16.99dBm or 4+10log(B) = 16.77dBm
44	5220	13.20	13.15	12.98	12.87	12.72	12.59	12.55	12.52	16.99dBm or 4+10log(B) = 16.77dBm
48	5240	13.18	13.14	13.09	12.96	12.86	12.75	12.58	12.43	16.99dBm or 4+10log(B) = 16.74dBm
52	5260	13.18	13.01	12.84	12.73	12.69	12.51	12.42	12.26	23.98dBm or 11+10log(B) = 23.76dBm
60	5300	13.20	13.16	12.97	12.95	12.77	12.71	12.53	12.35	23.98dBm or 11+10log(B) = 23.81dBm
64	5320	13.19	13.00	12.95	12.77	12.74	12.62	12.45	12.36	23.98dBm or 11+10log(B) = 23.84dBm
100	5500	13.12	12.96	12.85	12.69	12.59	12.46	12.44	12.29	23.98dBm or 11+10log(B) = 23.82dBm
116	5580	13.20	13.10	12.98	12.96	12.91	12.72	12.67	12.48	23.98dBm or 11+10log(B) = 23.76dBm
140	5700	9.99	9.95	9.91	9.87	9.83	9.77	9.70	9.65	23.98dBm or 11+10log(B) = 23.83dBm

Note: Limit is re-adjusted in terms of dBm

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

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

Note: Cable loss is 11.5dB is set as the offset on the spectrum to compensate the loss causing by cable

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802.11n HT20 - SISO

Cable loss = 0		The Maximum Output Power								
CH	Frequency (MHz)	Data Rate								Required Limit
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
36	5180	13.18	13.08	12.91	12.75	12.57	12.56	12.48	12.30	16.99dBm or $4+10\log(B) = 16.91\text{dBm}$
44	5220	13.22	13.04	12.93	12.78	12.72	12.70	12.59	12.43	16.99dBm or $4+10\log(B) = 16.93\text{dBm}$
48	5240	13.23	13.11	13.06	12.93	12.75	12.72	12.62	12.60	16.99dBm or $4+10\log(B) = 16.89\text{dBm}$
52	5260	13.24	13.13	13.08	13.00	12.94	12.79	12.72	12.64	23.98dBm or $11+10\log(B) = 23.90\text{dBm}$
60	5300	13.22	13.03	13.00	12.94	12.93	12.77	12.60	12.52	23.98dBm or $11+10\log(B) = 23.96\text{dBm}$
64	5320	13.22	13.18	13.07	12.97	12.80	12.75	12.64	12.48	23.98dBm or $11+10\log(B) = 23.90\text{dBm}$
100	5500	13.11	13.10	12.93	12.80	12.67	12.54	12.52	12.46	23.98dBm or $11+10\log(B) = 23.93\text{dBm}$
116	5580	13.00	12.98	12.89	12.74	12.67	12.56	12.54	12.47	23.98dBm or $11+10\log(B) = 23.90\text{dBm}$
140	5700	13.05	12.87	12.81	12.63	12.50	12.50	12.36	12.27	23.98dBm or $11+10\log(B) = 23.95\text{dBm}$

Note: Offset 11.5dB

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802.11n HT20

Cable loss = 0		The Maximum Output Power (CH 0)								
CH	Frequency (MHz)	Data Rate								Required Limit
		MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15	
36	5180	10.55	10.46	10.38	10.34	10.23	10.11	10.11	10.10	16.99dBm or $4+10\log(B) = 16.91\text{dBm}$
44	5220	10.56	10.46	10.42	10.29	10.17	10.07	9.97	9.93	16.99dBm or $4+10\log(B) = 16.93\text{dBm}$
48	5240	10.57	10.47	10.39	10.37	10.28	10.23	10.23	10.12	16.99dBm or $4+10\log(B) = 16.89\text{dBm}$
52	5260	10.55	10.47	10.40	10.35	10.31	10.30	10.26	10.20	23.98dBm or $11+10\log(B) = 23.90\text{dBm}$
60	5300	10.77	10.65	10.51	10.38	10.25	10.19	10.11	10.04	23.98dBm or $11+10\log(B) = 23.96\text{dBm}$
64	5320	10.55	10.41	10.41	10.34	10.28	10.17	10.15	10.01	23.98dBm or $11+10\log(B) = 23.90\text{dBm}$
100	5500	10.83	10.77	10.74	10.67	10.64	10.55	10.41	10.37	23.98dBm or $11+10\log(B) = 23.93\text{dBm}$
116	5580	10.75	10.72	10.65	10.53	10.51	10.40	10.30	10.28	23.98dBm or $11+10\log(B) = 23.90\text{dBm}$
140	5700	10.42	10.34	10.29	10.23	10.12	10.08	10.07	10.07	23.98dBm or $11+10\log(B) = 23.95\text{dBm}$

Note: Offset 11.5dB

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802.11n HT20

Cable loss = 0		The Maximum Output Power (CH 1)								
CH	Frequency (MHz)	Data Rate								Required Limit
		MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15	
36	5180	9.88	9.85	9.74	9.60	9.59	9.48	9.38	9.29	16.99dBm or 4+10log(B) = 16.91dBm
44	5220	9.82	9.80	9.74	9.69	9.60	9.57	9.50	9.47	16.99dBm or 4+10log(B) = 16.93dBm
48	5240	9.77	9.73	9.70	9.66	9.52	9.46	9.33	9.33	16.99dBm or 4+10log(B) = 16.89dBm
52	5260	9.81	9.70	9.68	9.63	9.60	9.58	9.54	9.43	23.98dBm or 11+10log(B) = 23.90dBm
60	5300	9.82	9.69	9.61	9.57	9.51	9.47	9.40	9.31	23.98dBm or 11+10log(B) = 23.96dBm
64	5320	9.92	9.83	9.83	9.73	9.67	9.58	9.47	9.36	23.98dBm or 11+10log(B) = 23.90dBm
100	5500	9.51	9.46	9.32	9.23	9.10	8.99	8.89	8.77	23.98dBm or 11+10log(B) = 23.93dBm
116	5580	9.64	9.63	9.56	9.48	9.38	9.32	9.19	9.13	23.98dBm or 11+10log(B) = 23.90dBm
140	5700	9.92	9.83	9.77	9.74	9.65	9.60	9.55	9.48	23.98dBm or 11+10log(B) = 23.95dBm

Note: Offset 11.5dB

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802.11n HT20 MIMO operation

Cable loss = 0		The Maximum Output Power (CH 0 + CH 1)								
CH	Frequency (MHz)	Data Rate								Required Limit
		MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15	
36	5180	13.23	13.18	13.08	13.00	12.93	12.82	12.77	12.72	16.99dBm or $4+10\log(B) = 16.91\text{dBm}$
44	5220	13.21	13.15	13.10	13.01	12.90	12.84	12.75	12.72	16.99dBm or $4+10\log(B) = 16.93\text{dBm}$
48	5240	13.19	13.13	13.07	13.04	12.93	12.87	12.81	12.75	16.99dBm or $4+10\log(B) = 16.89\text{dBm}$
52	5260	13.20	13.11	13.07	13.02	12.98	12.97	12.93	12.84	23.98dBm or $11+10\log(B) = 23.90\text{dBm}$
60	5300	13.33	13.21	13.09	13.00	12.91	12.86	12.78	12.70	23.98dBm or $11+10\log(B) = 23.96\text{dBm}$
64	5320	13.25	13.14	13.14	13.06	13.00	12.90	12.83	12.71	23.98dBm or $11+10\log(B) = 23.90\text{dBm}$
100	5500	13.23	13.17	13.10	13.02	12.95	12.85	12.73	12.65	23.98dBm or $11+10\log(B) = 23.93\text{dBm}$
116	5580	13.24	13.22	13.15	13.05	12.99	12.90	12.79	12.75	23.98dBm or $11+10\log(B) = 23.90\text{dBm}$
140	5700	13.18	13.10	13.05	13.00	12.90	12.86	12.83	12.80	23.98dBm or $11+10\log(B) = 23.95\text{dBm}$

Note: Offset 11.5dB

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802.11n HT40 - SISO

Cable loss = 0		The Maximum Output Power								
CH	Frequency (MHz)	Data Rate								Required Limit
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
38	5190	11.42	11.29	11.18	11.08	10.88	10.87	10.72	10.55	16.99dBm or $4+10\log(B) = 20.55\text{dBm}$
46	5230	11.42	11.28	11.08	11.04	11.01	10.95	10.89	10.89	16.99dBm or $4+10\log(B) = 20.54\text{dBm}$
54	5270	11.38	11.20	11.18	11.11	10.90	10.75	10.75	10.68	23.98dBm or $11+10\log(B) = 27.54\text{dBm}$
62	5310	11.37	11.33	11.22	11.15	10.98	10.86	10.76	10.55	23.98dBm or $11+10\log(B) = 27.52\text{dBm}$
102	5510	9.55	9.51	9.48	9.47	9.44	9.40	9.36	9.33	23.98dBm or $11+10\log(B) = 27.57\text{dBm}$
118	5550	11.41	11.34	11.33	11.28	11.16	10.94	10.83	10.79	23.98dBm or $11+10\log(B) = 27.56\text{dBm}$
134	5670	11.42	11.35	11.30	11.14	11.08	10.96	10.79	10.70	23.98dBm or $11+10\log(B) = 27.55\text{dBm}$

Note: Offset 11.5dB

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802.11n HT40

Cable loss = 0		The Maximum Output Power (CH 0)								
CH	Frequency (MHz)	Data Rate								Required Limit
		MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15	
38	5190	10.88	10.82	10.81	10.78	10.77	10.77	10.71	10.64	16.99dBm or $4+10\log(B) = 20.55\text{dBm}$
46	5230	11.00	10.93	10.93	10.91	10.90	10.82	10.78	10.71	16.99dBm or $4+10\log(B) = 20.54\text{dBm}$
54	5270	11.14	11.10	11.04	10.98	10.91	10.90	10.81	10.72	23.98dBm or $11+10\log(B) = 27.54\text{dBm}$
62	5310	11.31	11.28	11.21	11.13	11.06	11.06	10.97	10.97	23.98dBm or $11+10\log(B) = 27.52\text{dBm}$
102	5510	7.43	7.41	7.38	7.37	7.33	7.30	7.29	7.25	23.98dBm or $11+10\log(B) = 27.57\text{dBm}$
118	5550	11.31	11.22	11.16	11.07	11.02	10.92	10.88	10.84	23.98dBm or $11+10\log(B) = 27.56\text{dBm}$
134	5670	11.21	11.10	11.09	11.06	11.05	10.98	10.95	10.92	23.98dBm or $11+10\log(B) = 27.55\text{dBm}$

Note: Offset 11.5dB

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802.11n HT40

Cable loss = 0		The Maximum Output Power (CH 1)								
CH	Frequency (MHz)	Data Rate								Required Limit
		MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15	
38	5190	10.46	10.44	10.43	10.36	10.27	10.22	10.13	10.09	16.99dBm or $4+10\log(B)$ = 20.55dBm
46	5230	10.55	10.54	10.50	10.44	10.43	10.39	10.37	10.35	16.99dBm or $4+10\log(B)$ = 20.54dBm
54	5270	10.58	10.50	10.49	10.47	10.45	10.39	10.36	10.33	23.98dBm or $11+10\log(B)$ = 27.54dBm
62	5310	10.61	10.55	10.50	10.48	10.44	10.37	10.33	10.30	23.98dBm or $11+10\log(B)$ = 27.52dBm
102	5510	5.69	5.66	5.65	5.61	5.58	5.55	5.52	5.47	23.98dBm or $11+10\log(B)$ = 27.57dBm
118	5550	10.51	10.48	10.45	10.37	10.32	10.22	10.21	10.16	23.98dBm or $11+10\log(B)$ = 27.56dBm
134	5670	10.68	10.68	10.64	10.59	10.52	10.45	10.43	10.38	23.98dBm or $11+10\log(B)$ = 27.55dBm

Note: Offset 11.5dB

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802.11n HT40 MIMO operation

Cable loss = 0		The Maximum Output Power (CH 0 + CH 1)								
CH	Frequency (MHz)	Data Rate								Required Limit
		MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15	
38	5190	13.69	13.64	13.63	13.59	13.54	13.51	13.44	13.38	16.99dBm or $4+10\log(B)$ = 20.55dBm
46	5230	13.79	13.75	13.73	13.69	13.68	13.62	13.59	13.54	16.99dBm or $4+10\log(B)$ = 20.54dBm
54	5270	13.87	13.82	13.78	13.74	13.70	13.66	13.60	13.54	23.98dBm or $11+10\log(B)$ = 27.54dBm
62	5310	13.98	13.94	13.88	13.83	13.77	13.74	13.67	13.66	23.98dBm or $11+10\log(B)$ = 27.52dBm
102	5510	9.65	9.63	9.61	9.59	9.55	9.52	9.50	9.46	23.98dBm or $11+10\log(B)$ = 27.57dBm
118	5550	13.93	13.88	13.83	13.74	13.69	13.59	13.57	13.52	23.98dBm or $11+10\log(B)$ = 27.56dBm
134	5670	13.96	13.91	13.88	13.84	13.80	13.73	13.71	13.67	23.98dBm or $11+10\log(B)$ = 27.55dBm

Note: Offset 11.5dB

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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 $a=0.21043$, $n_{HT20}=0.44986$, $n_{HT40}=0.78625$
6. Record the max. reading.
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.
8. For MIMO mode, add the appropriate offset.

9.3 Measurement Equipment Used:

Refer to section 7.3 for details.

9.4 Test Set-up:

Refer to section 7.4 for details.

Remark: as per KDB 662291, MIMO mode is accomplished by the addition of $10 \log(N)$, where $N=2$ as the simultaneous emission of PSD

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9.5 Measurement Result

802.11a, 5150~5250 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	-3.68	4.00	-7.68
5220	-1.87	4.00	-5.87
5240	-1.70	4.00	-5.70

802.11a, 5250~5350 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5260	-6.99	11.00	-17.99
5300	-2.33	11.00	-13.33
5320	-6.47	11.00	-17.47

802.11a, 5470~5725 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5500	-4.58	11.00	-15.58
5580	-3.23	11.00	-14.23
5700	-3.30	11.00	-14.30

Note: Offset 11.7dB

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802.11n HT20, 5150~5250 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	-4.10	4.00	-8.10
5220	-3.44	4.00	-7.44
5240	-5.09	4.00	-9.09

802.11n HT20, 5250~5350 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5260	-2.20	11.00	-13.20
5300	-1.66	11.00	-12.66
5320	-1.49	11.00	-12.49

802.11n HT20, 5470~5725 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5500	-3.93	11.00	-14.93
5580	-1.02	11.00	-12.02
5700	-5.90	11.00	-16.90

Note: Offset 15dB, where = cable loss + attenuator + duty factor + MIMO factor

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802.11n HT40, 5150~5250 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5190	-5.92	4.00	-9.92
5230	-9.56	4.00	-13.56

802.11n HT40, 5250~5350 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5270	-4.53	11.00	-15.53
5310	-0.12	11.00	-11.12

802.11n HT40, 5470~5725 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5510	-5.32	11.00	-16.32
5550	-12.82	11.00	-23.82
5670	-10.96	11.00	-21.96

Note: Offset 15.3dB, where = cable loss + attenuator + duty factor + MIMO factor

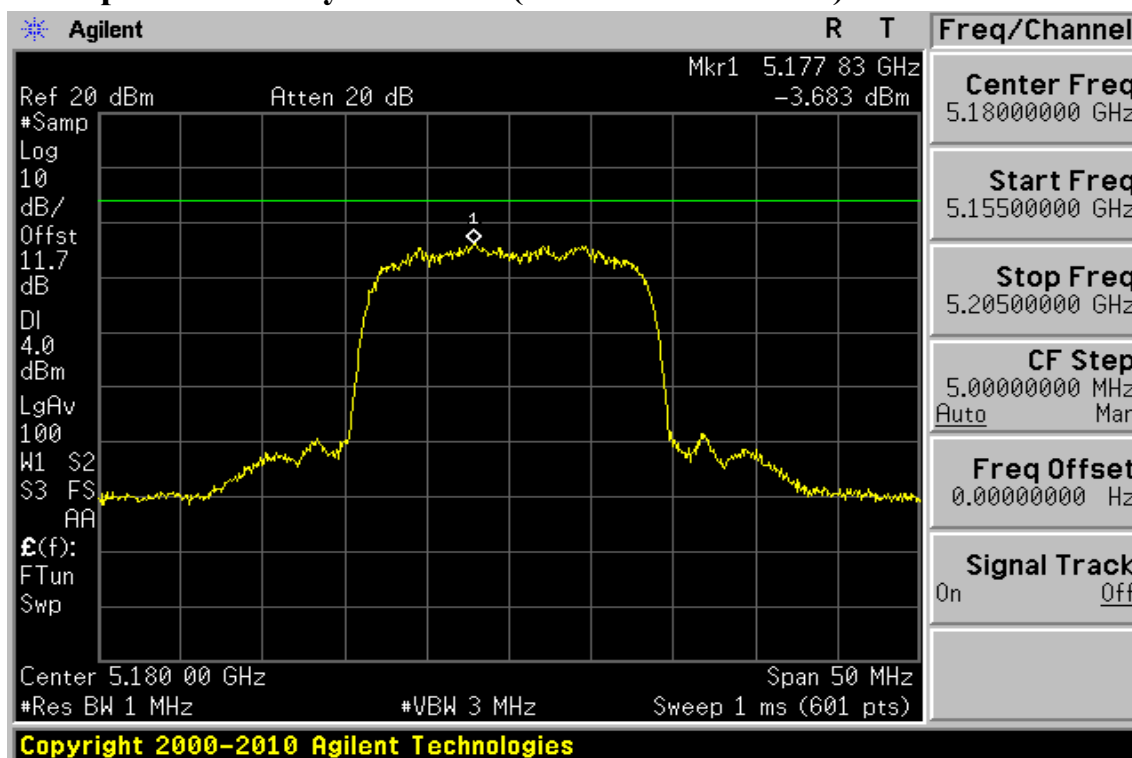
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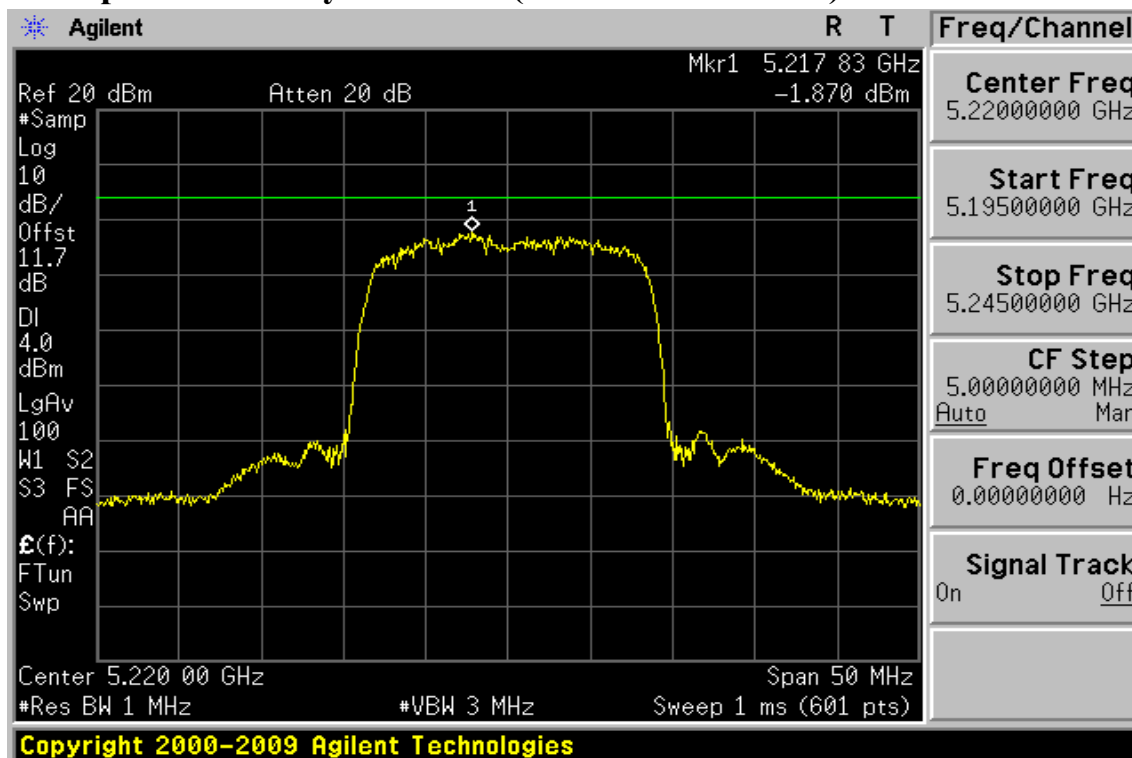
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802.11a, 5150~5250 MHz

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



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

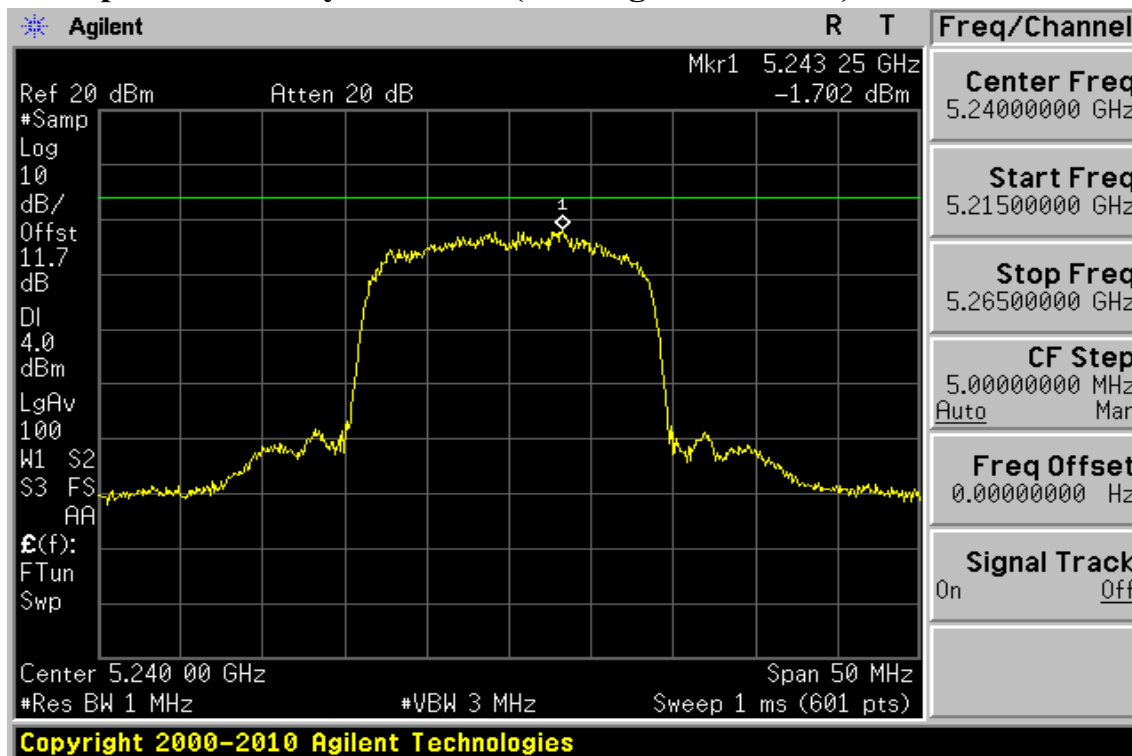


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Peak Power Spectral Density Data Plot (CH High 5240 MHz)



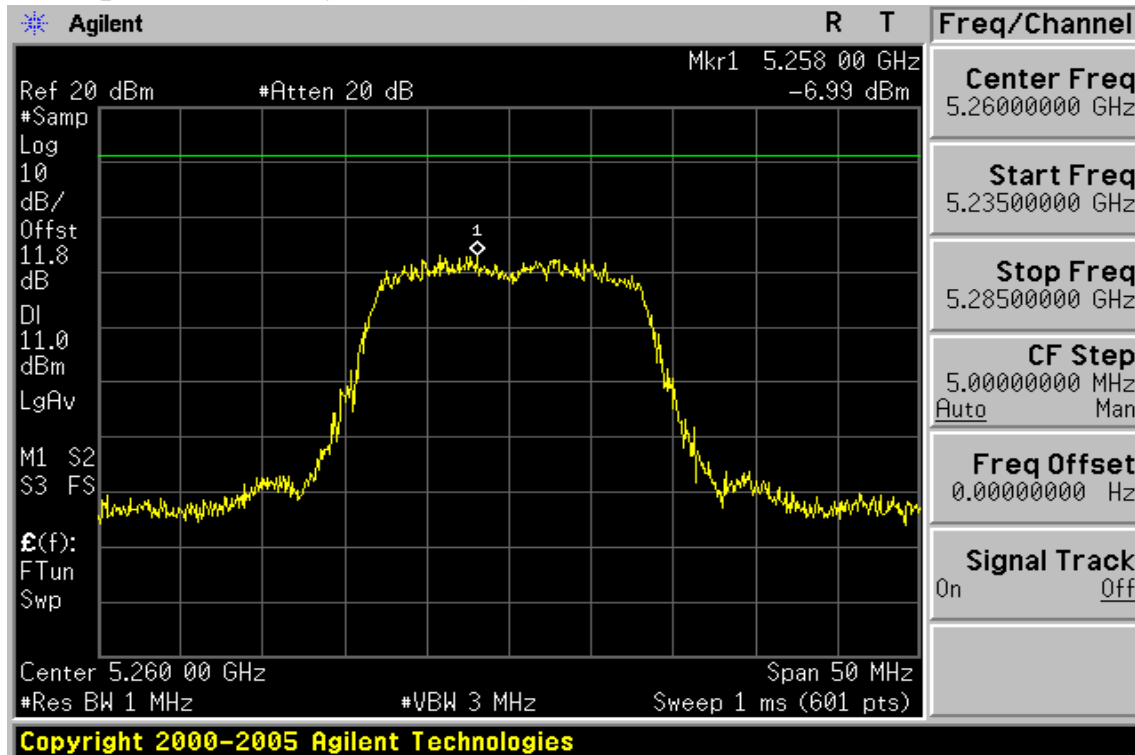
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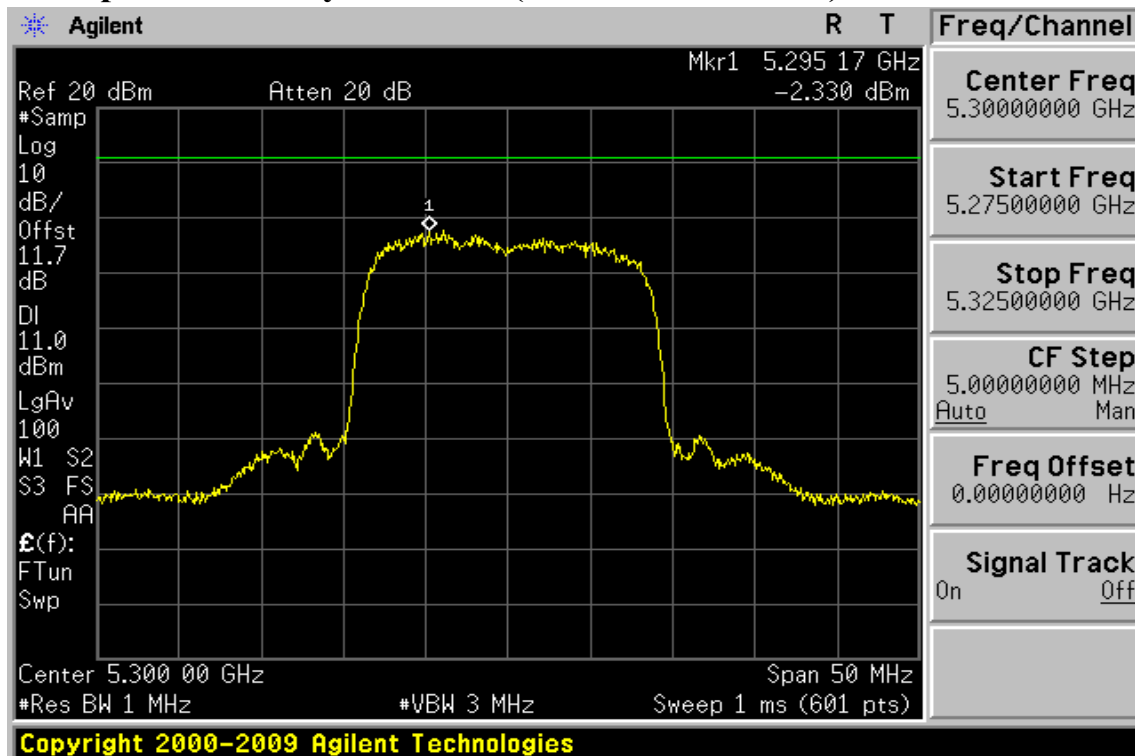
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802.11a, 5250~5350 MHz

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



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

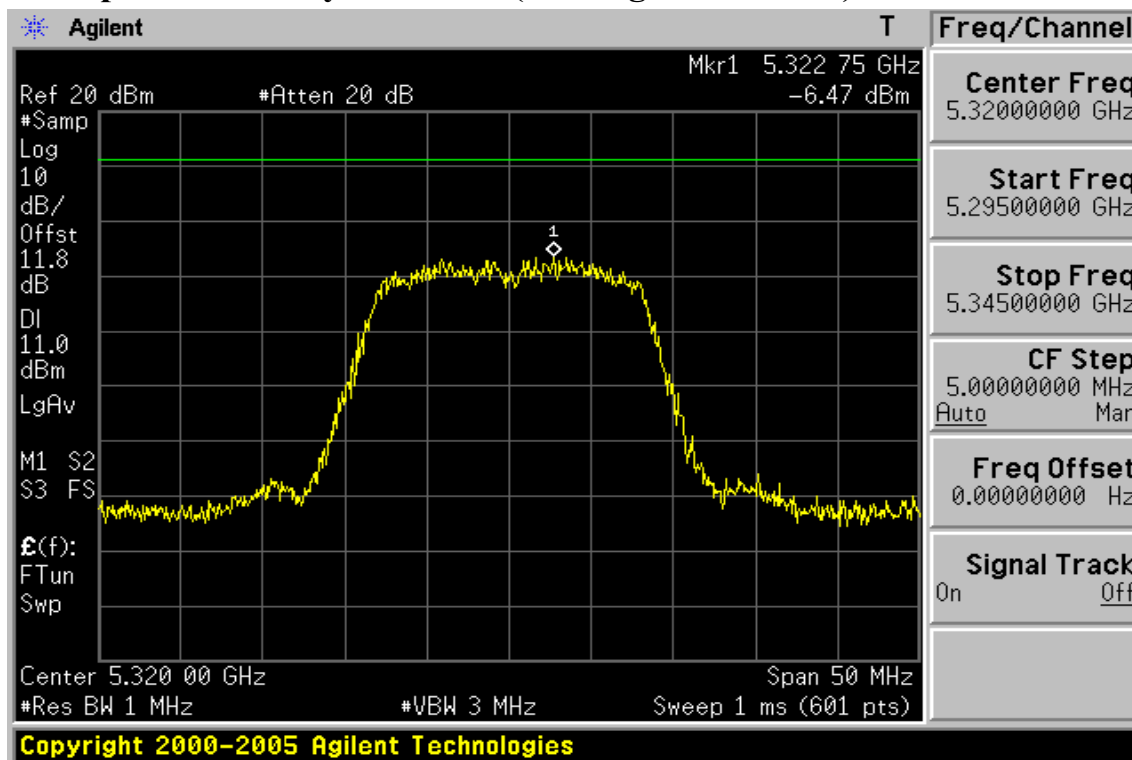


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Peak Power Spectral Density Data Plot (CH High 5320 MHz)



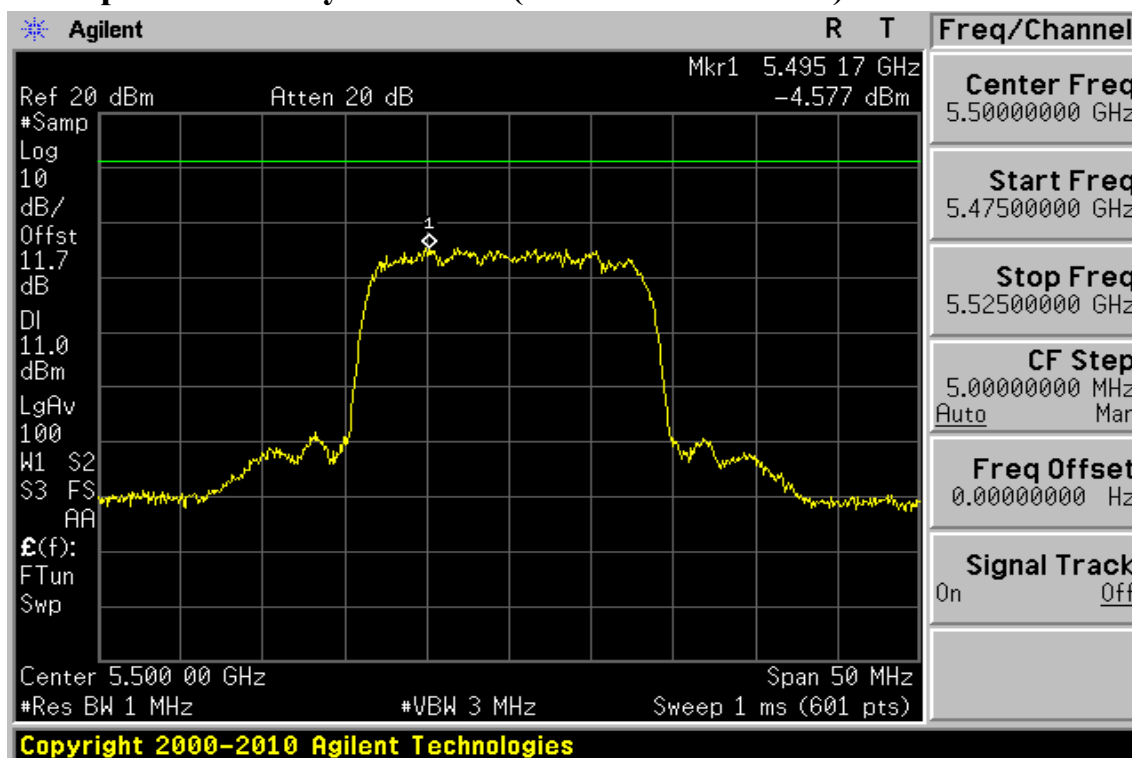
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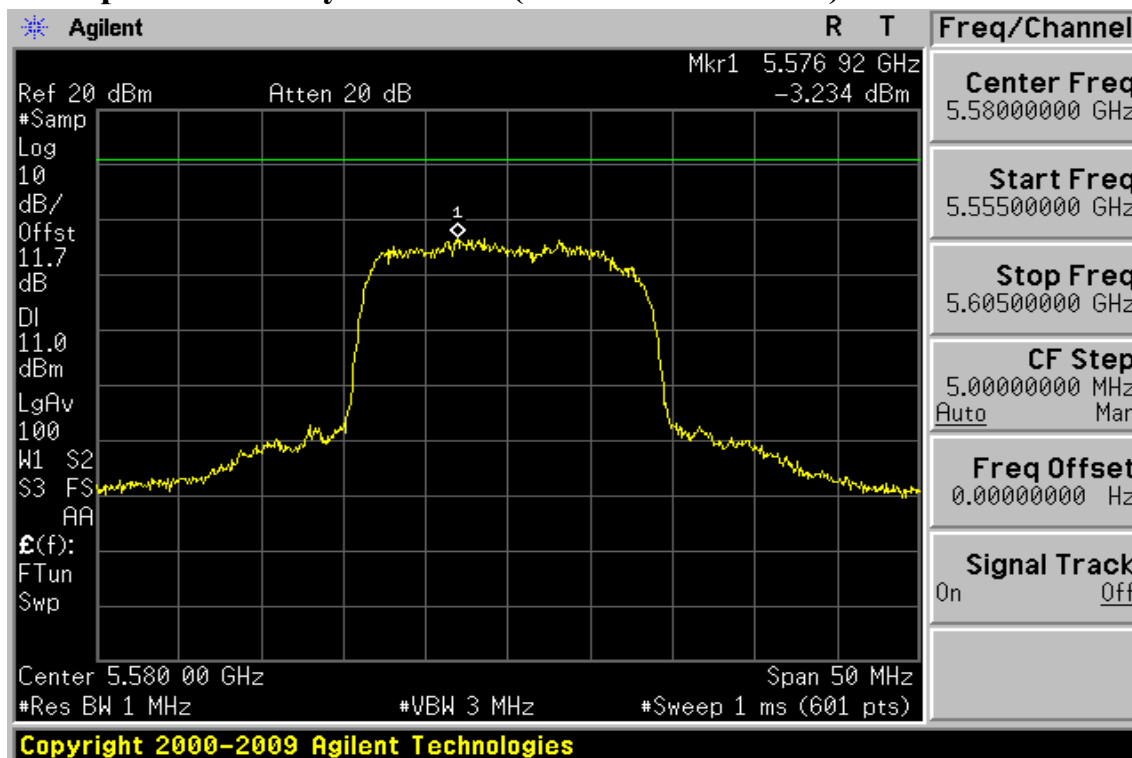
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802.11a, 5470~5725 MHz

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



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

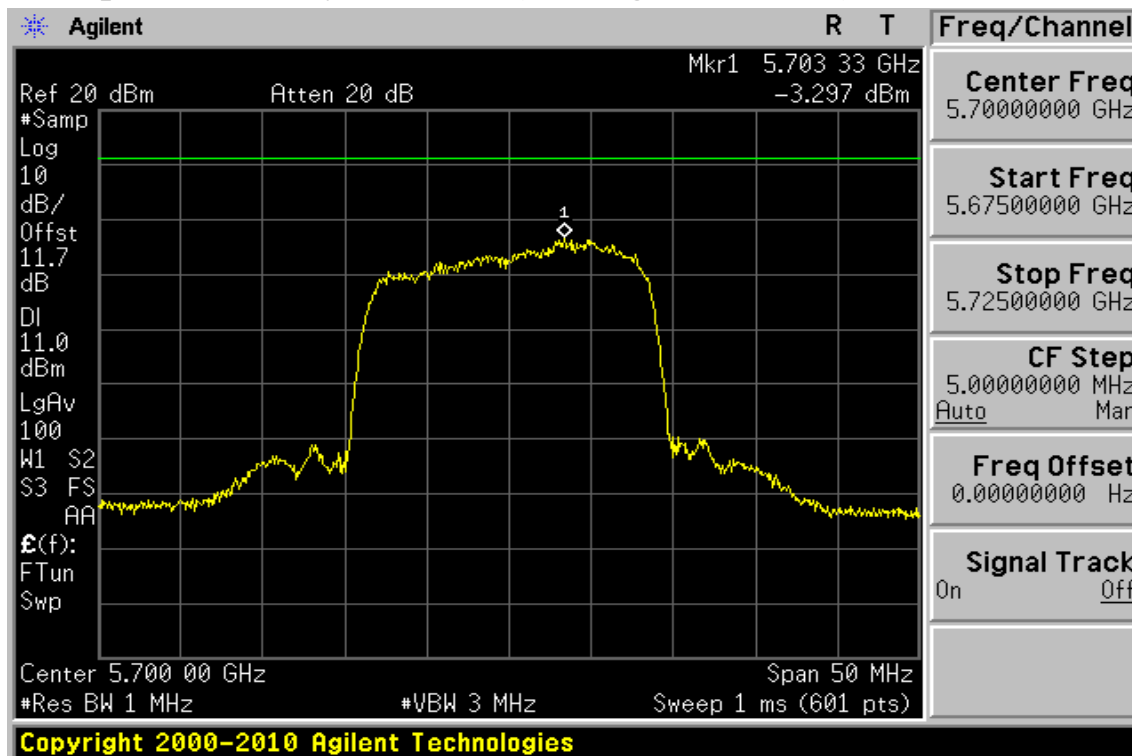


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Peak Power Spectral Density Data Plot (CH High 5700 MHz)



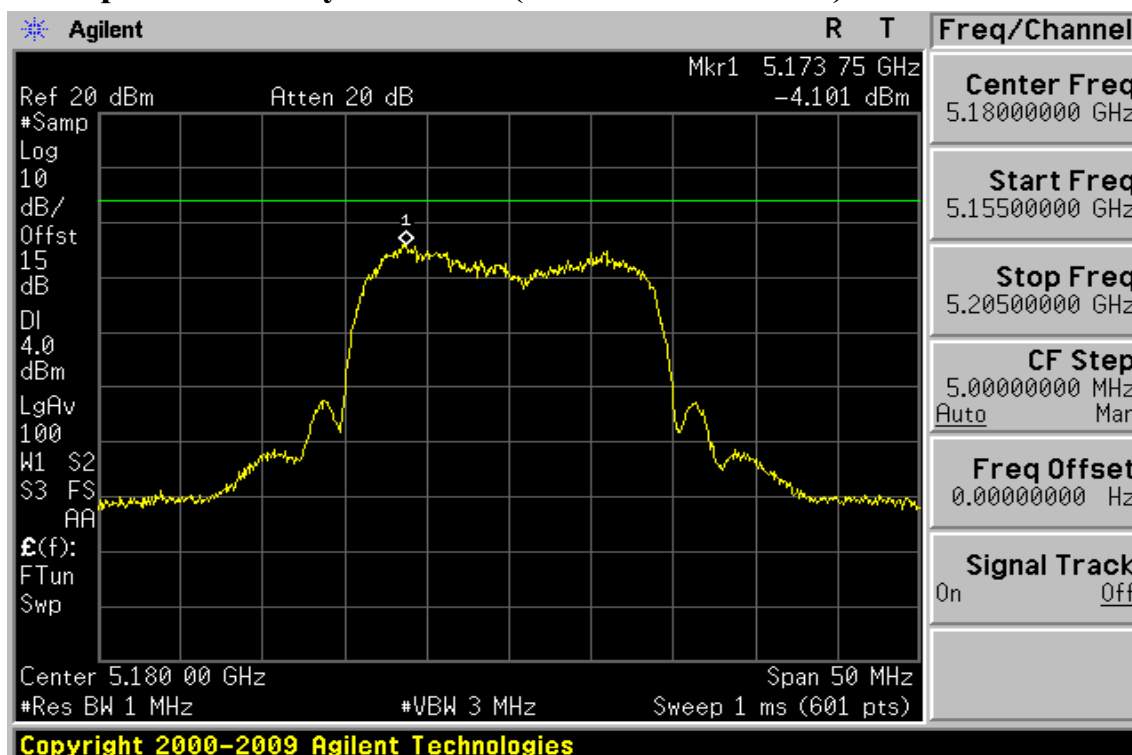
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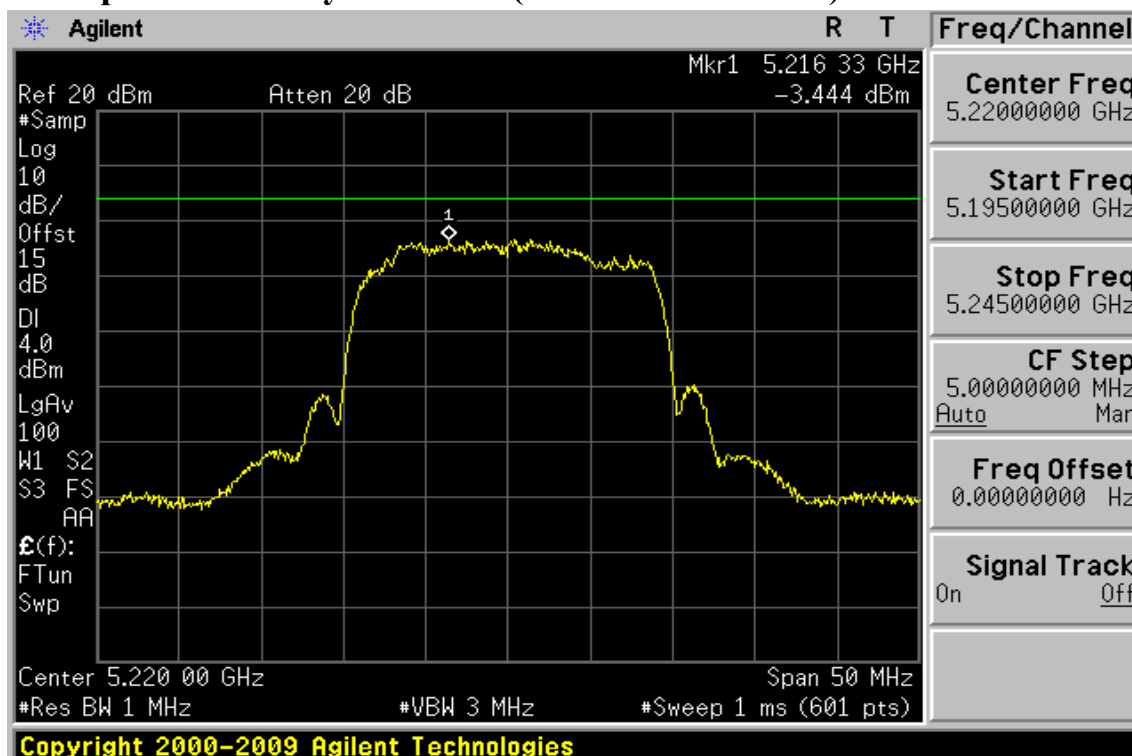
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802.11n HT20, 5150~5250 MHz

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



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

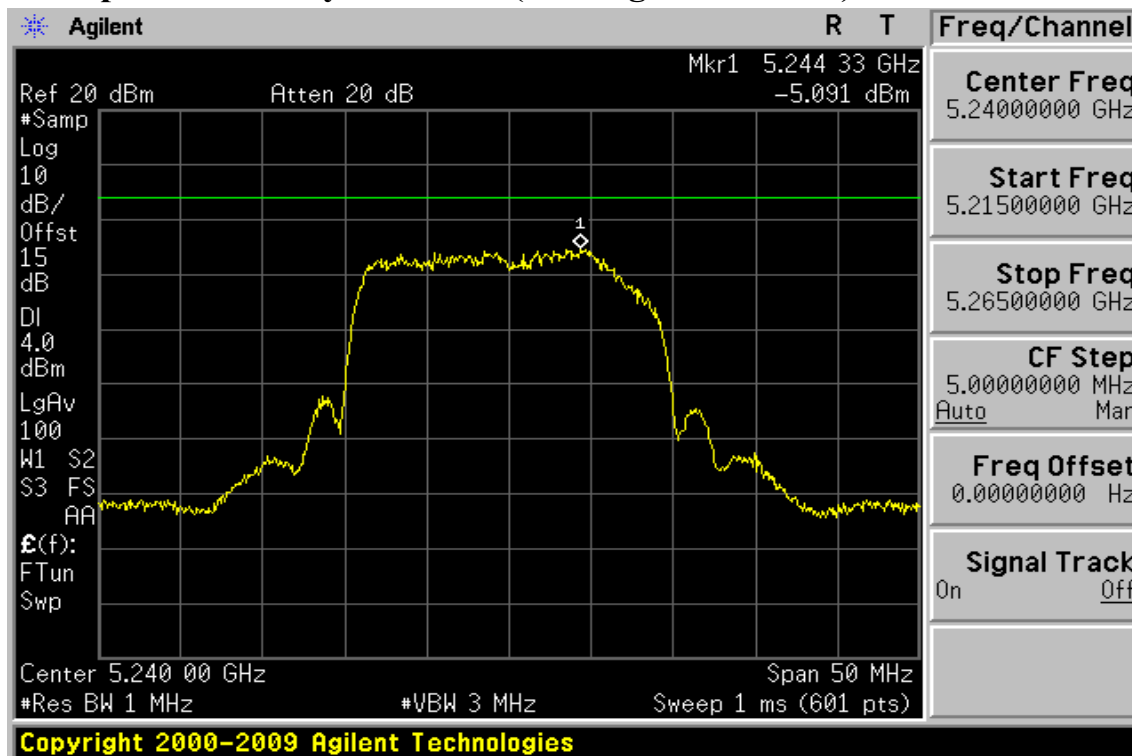


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Peak Power Spectral Density Data Plot (CH High 5240 MHz)



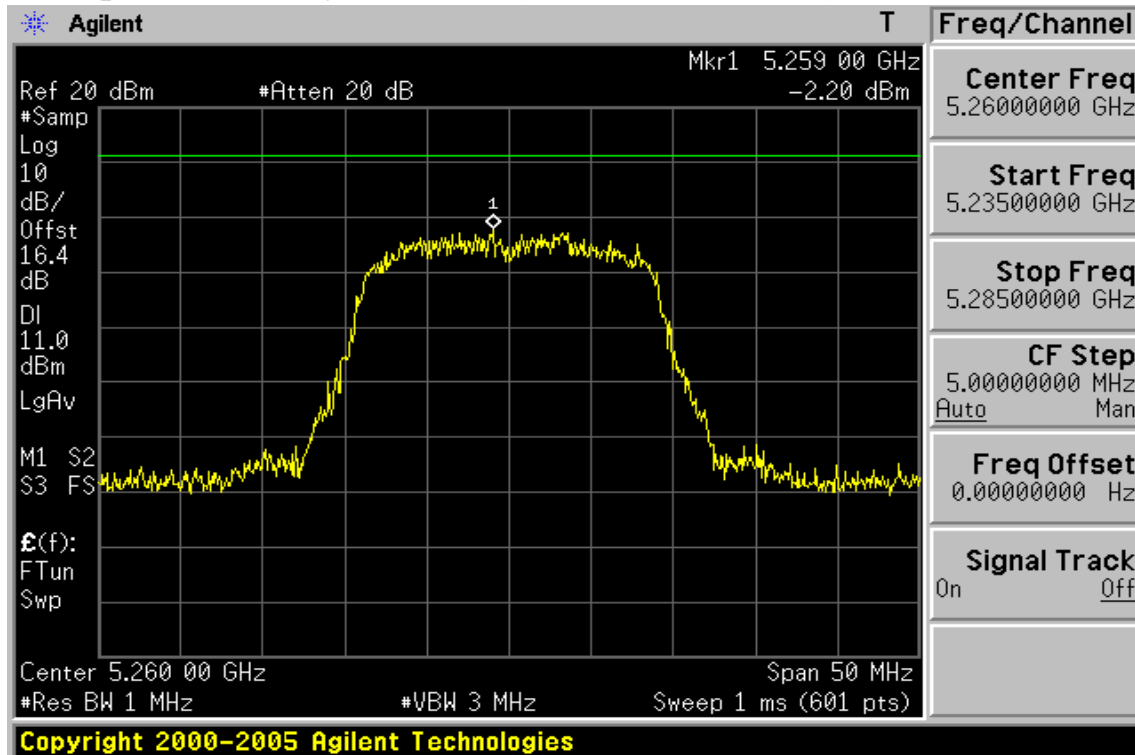
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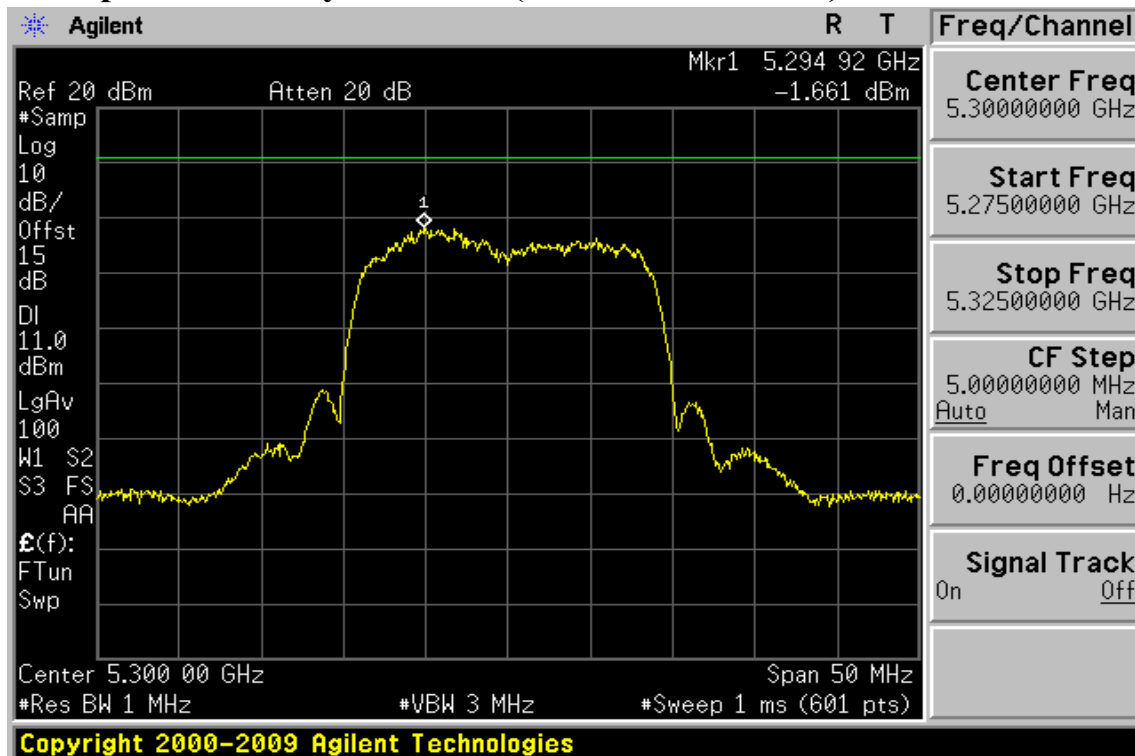
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802.11n HT20, 5250~5350 MHz

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



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

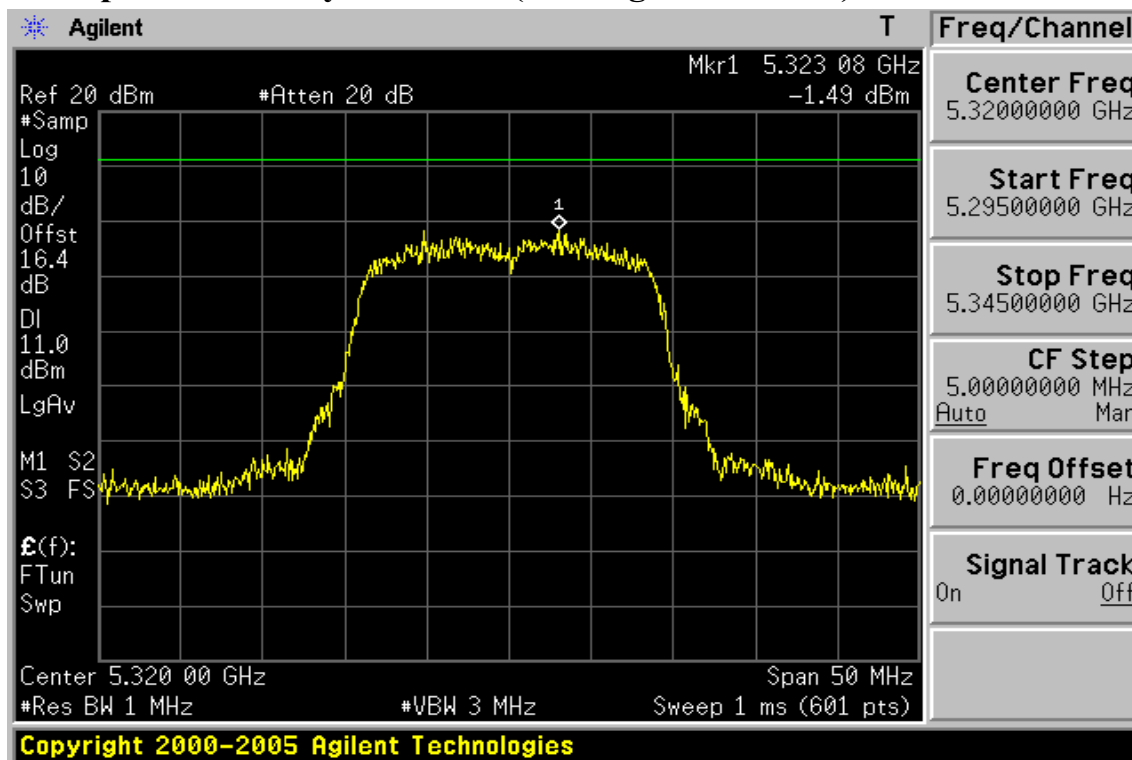


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Peak Power Spectral Density Data Plot (CH High 5320 MHz)



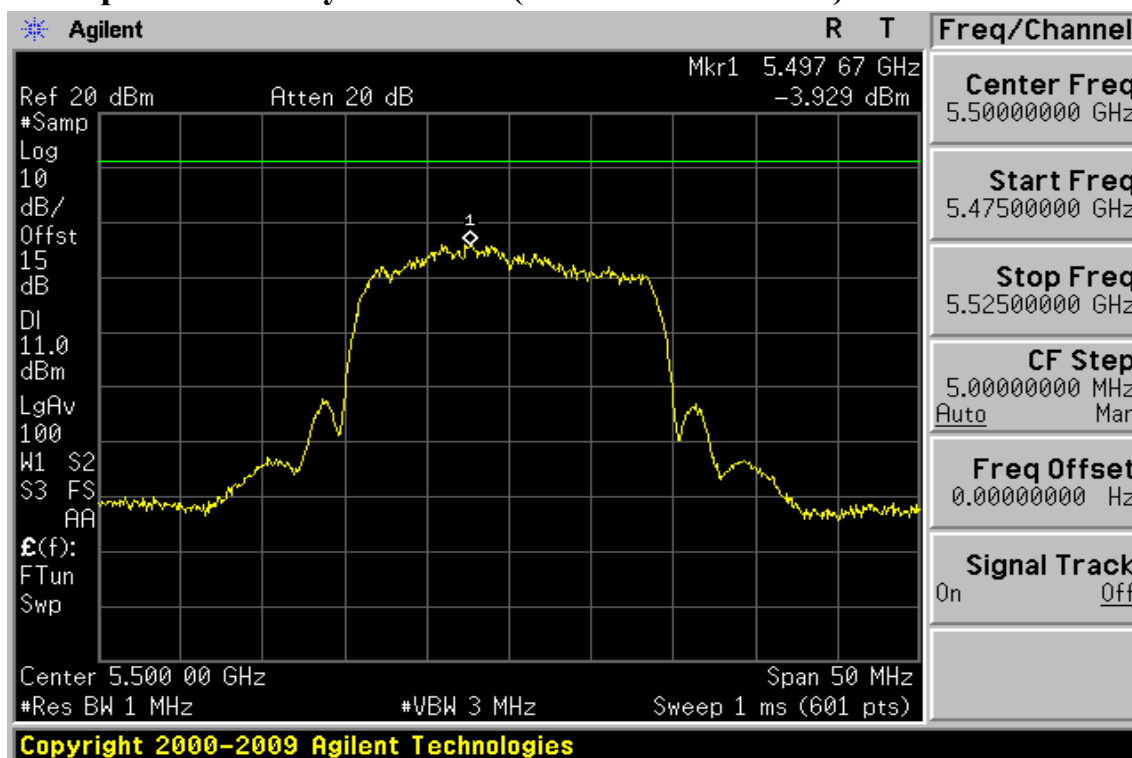
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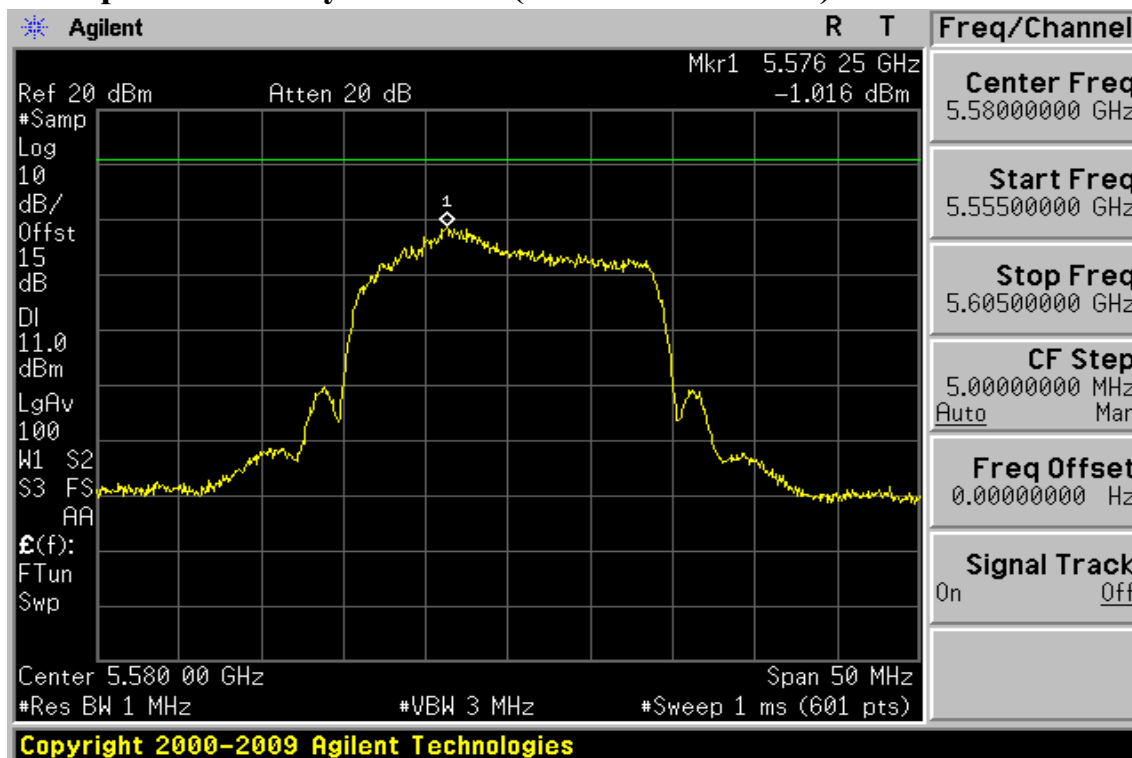
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802.11n HT20, 5470~5725 MHz

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



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

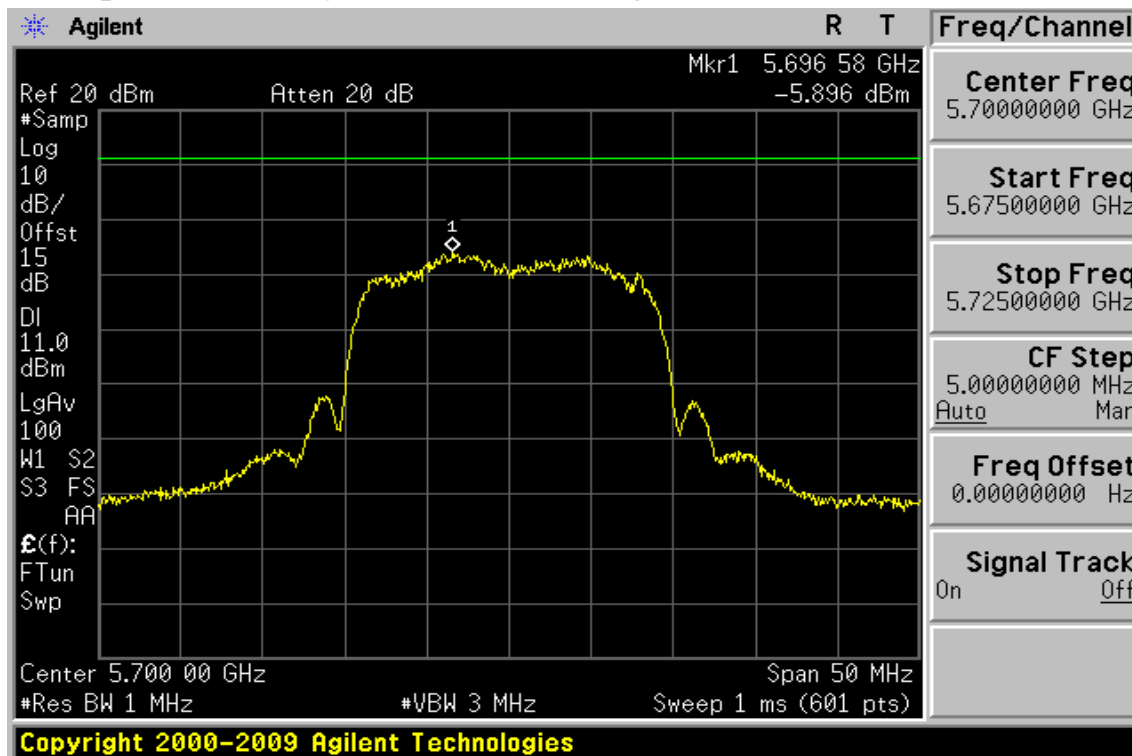


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Peak Power Spectral Density Data Plot (CH High 5700 MHz)



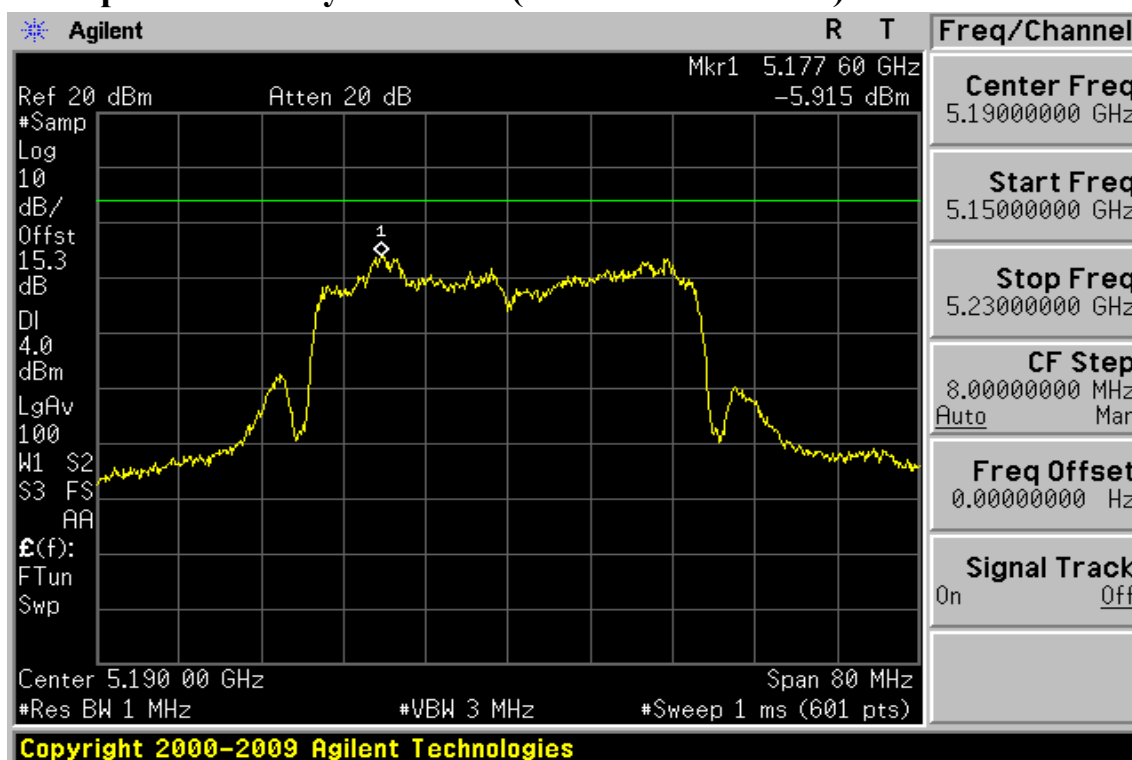
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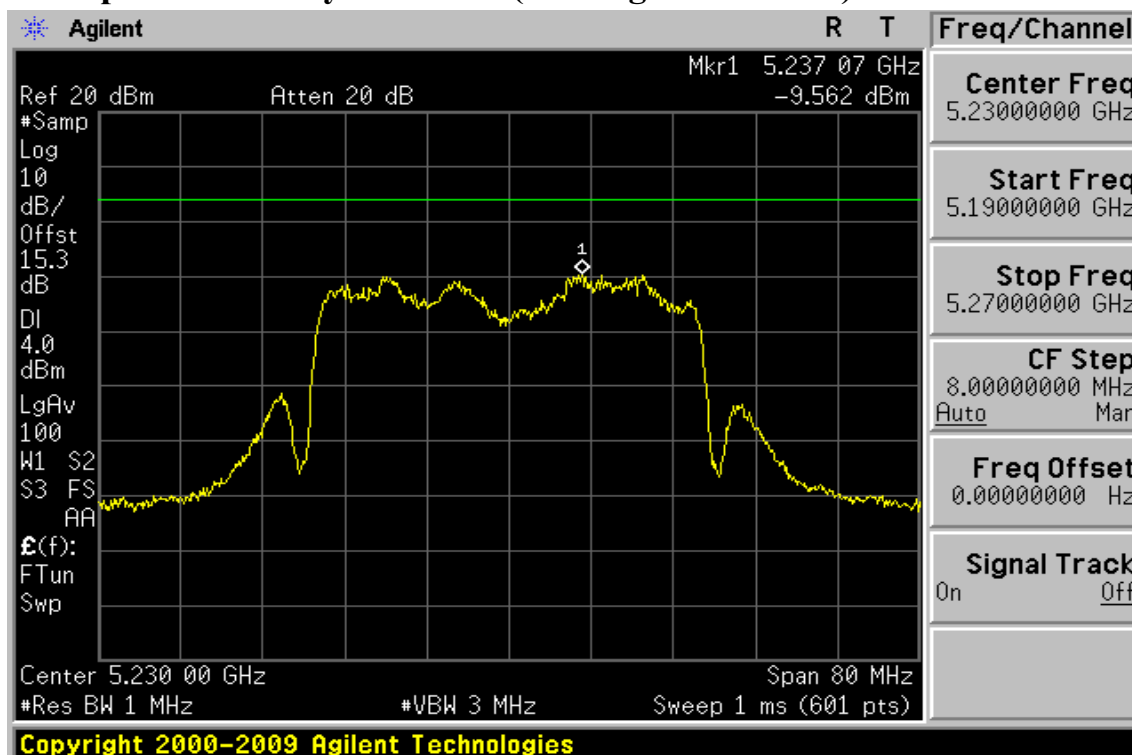
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802.11n HT40, 5150~5250 MHz

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



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



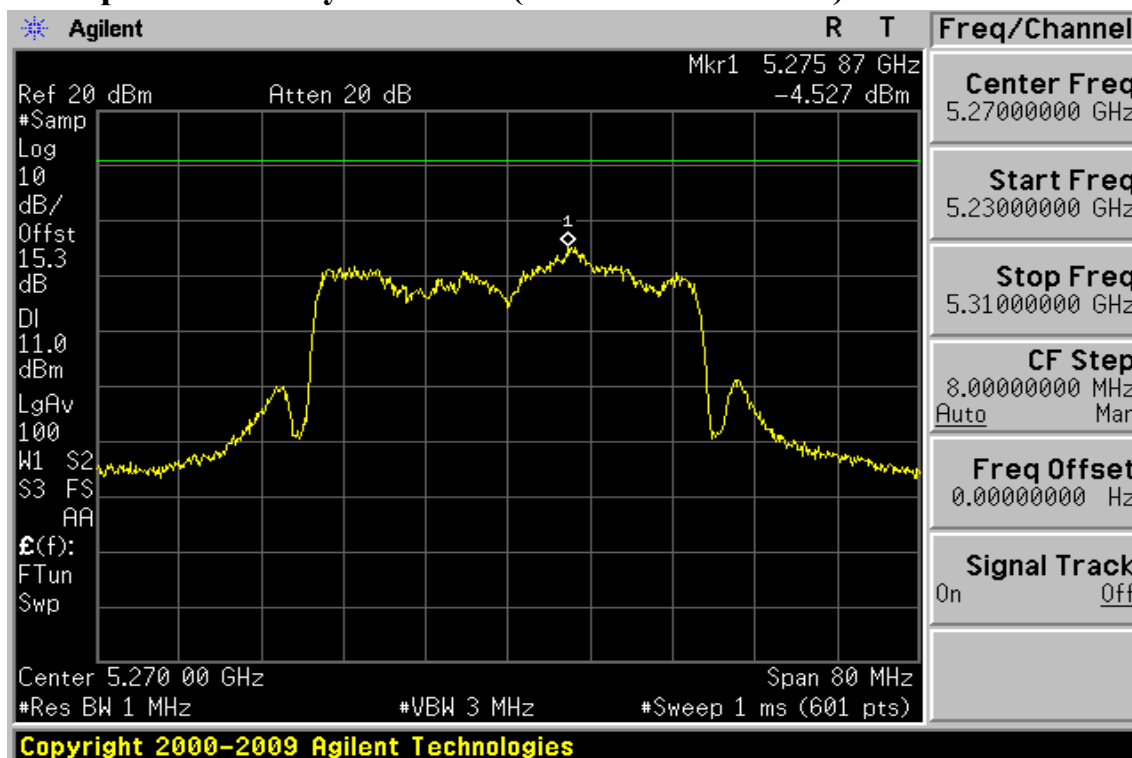
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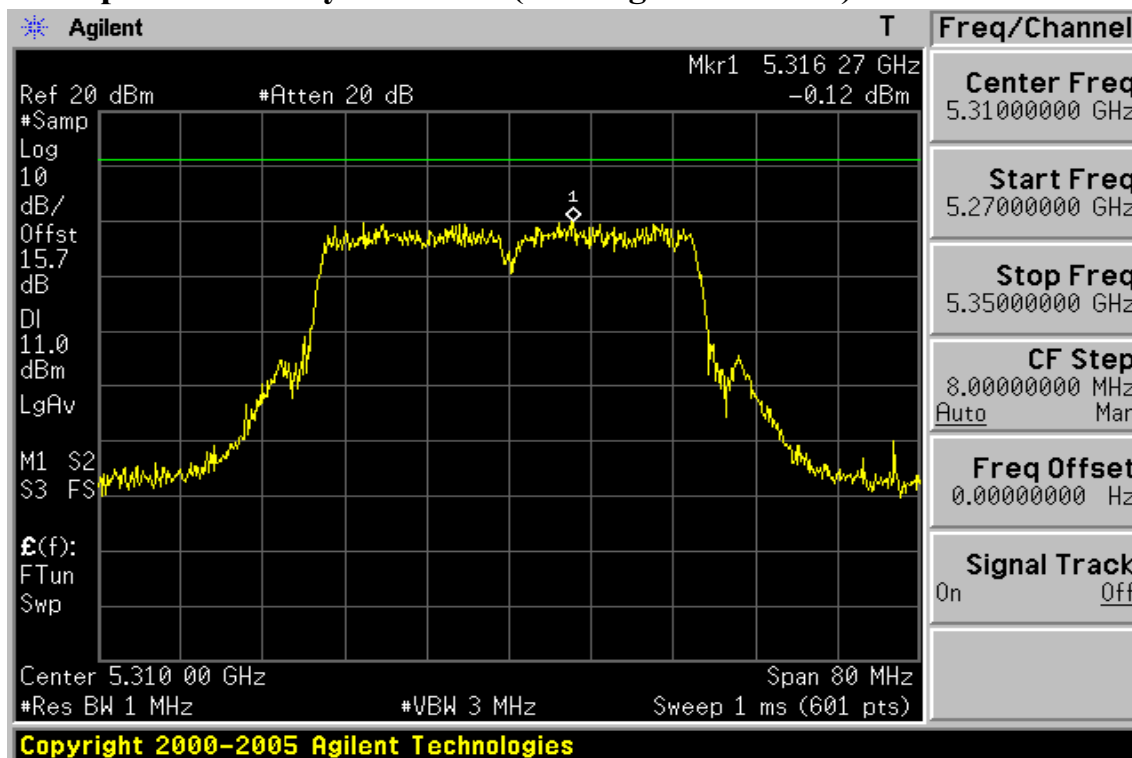
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802.11n HT40, 5250~5350 MHz

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



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



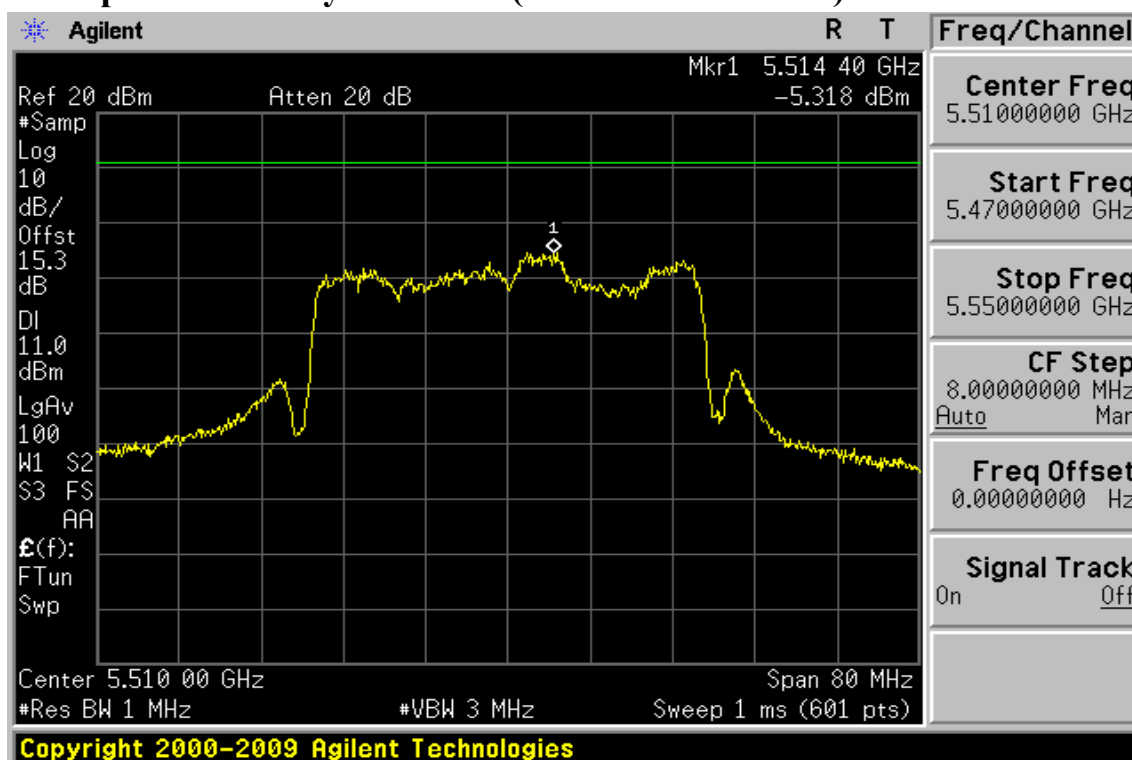
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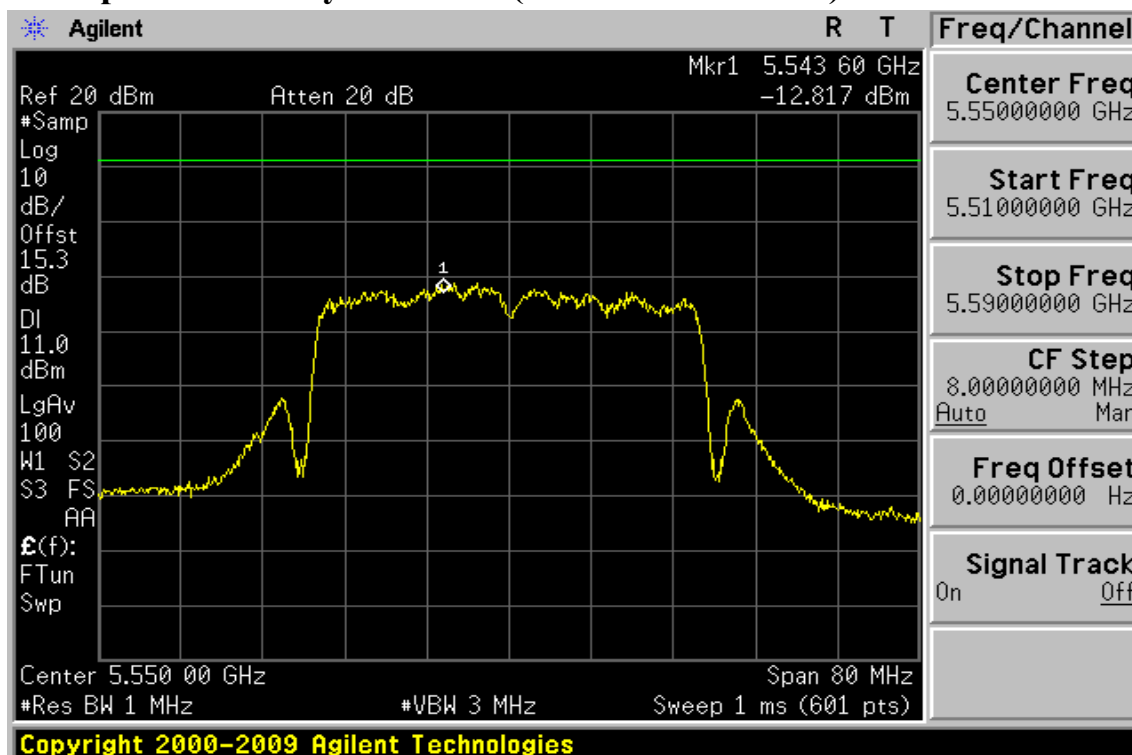
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802.11n HT40, 5470~5725 MHz

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



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

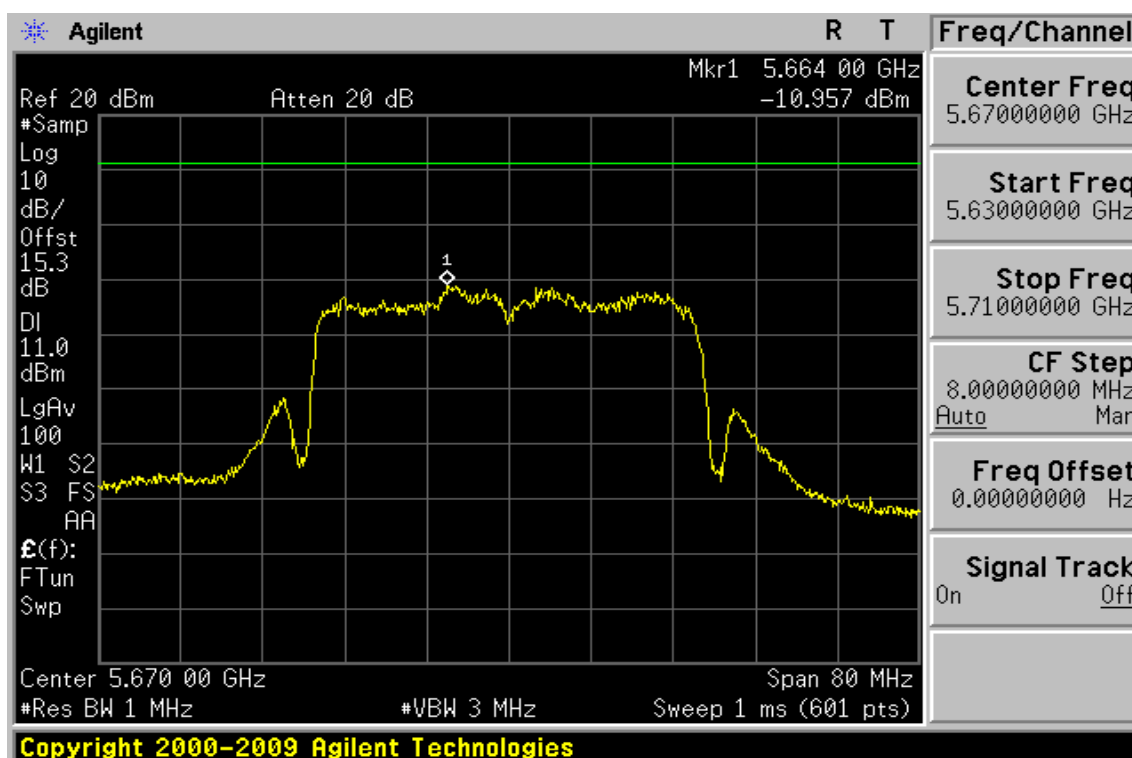


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Peak Power Spectral Density Data Plot (CH High 5670 MHz)



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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_{BPS})	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	$N_{BPS}(i_{SS})$	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

802.11n_20_MIMO

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 (see NOTE)
8	BPSK	1/2	1	52	4	104	52	13.0	14.4
9	QPSK	1/2	2	52	4	208	104	26.0	28.9
10	QPSK	3/4	2	52	4	208	156	39.0	43.3
11	16-QAM	1/2	4	52	4	416	208	52.0	57.8
12	16-QAM	3/4	4	52	4	416	312	78.0	86.7
13	64-QAM	2/3	6	52	4	624	416	104.0	115.6
14	64-QAM	3/4	6	52	4	624	468	117.0	130.0
15	64-QAM	5/6	6	52	4	624	520	130.0	144.4

NOTE—The 400 ns GI rate values are rounded to 1 decimal place.

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802.11n_40_MIMO

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
8	BPSK	1/2	1	108	6	216	108	27.0	30.0
9	QPSK	1/2	2	108	6	432	216	54.0	60.0
10	QPSK	3/4	2	108	6	432	324	81.0	90.0
11	16-QAM	1/2	4	108	6	864	432	108.0	120.0
12	16-QAM	3/4	4	108	6	864	648	162.0	180.0
13	64-QAM	2/3	6	108	6	1296	864	216.0	240.0
14	64-QAM	3/4	6	108	6	1296	972	243.0	270.0
15	64-QAM	5/6	6	108	6	1296	1080	270.0	300.0

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.

Remark: as per KDB 662291, MIMO mode is accomplished by the addition of $10 \log(N)$, where $N = 2$ as the simultaneous emission of Peak Excursion.

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	9.00	-1.87	10.87	13.00

802.11a, 5250~5350 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5300	8.38	-2.33	10.71	13.00

802.11a, 5470~5725 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5580	9.03	-3.234	12.26	13.00

802.11n HT20, 5150~5250 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5220	9.12	-3.44	12.56	13.00

802.11n HT20, 5250~5350 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5300	9.62	-1.661	11.28	13.00

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802.11n HT20, 5470~5725 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5580	9.48	-1.016	10.50	13.00

802.11n HT40, 5150~5250 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5190	6.34	-5.915	12.26	13.00

802.11n HT40, 5250~5350 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5270	6.07	-4.527	10.60	13.00

802.11n HT40, 5470~5725 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5510	7.13	-5.318	12.45	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	8.84	-3.889	12.73	13.00

802.11a, 5250~5350 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5300	9.18	-3.067	12.25	13.00

802.11a, 5470~5725 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5580	8.87	-3.666	12.54	13.00

802.11n HT20, 5150~5250 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5220	9.18	-2.940	12.12	13.00

802.11n HT20, 5250~5350 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5300	9.68	-1.673	11.35	13.00

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802.11n HT20, 5470~5725 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5580	9.25	-2.624	11.87	13.00

802.11n HT40, 5150~5250 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5190	6.47	-6.023	12.49	13.00

802.11n HT40, 5250~5350 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5270	6.26	-6.058	12.32	13.00

802.11n HT40, 5470~5725 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5510	7.77	-4.929	12.70	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	9.02	-2.887	11.91	13.00

802.11a, 5250~5350 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5300	8.27	-4.28	12.55	13.00

802.11a, 5470~5725 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5580	8.90	-3.222	12.12	13.00

802.11n HT20, 5150~5250 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5220	9.12	-3.166	12.29	13.00

802.11n HT20, 5250~5350 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5300	9.22	-2.374	11.59	13.00

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802.11n HT20, 5470~5725 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5580	9.19	-2.229	11.42	13.00

802.11n HT40, 5150~5250 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5190	7.68	-4.612	12.29	13.00

802.11n HT40, 5250~5350 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5270	6.98	-4.290	11.27	13.00

802.11n HT40, 5470~5725 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5510	6.80	-3.988	10.79	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	8.86	-3.5	12.36	13.00

802.11a, 5250~5350 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5300	8.67	-1.885	10.56	13.00

802.11a, 5470~5725 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5580	9.18	-2.934	12.11	13.00

802.11n HT20, 5150~5250 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5220	9.17	-3.429	12.60	13.00

802.11n HT20, 5250~5350 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5300	9.54	-2.568	12.11	13.00

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802.11n HT20, 5470~5725 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5580	9.53	-2.257	11.79	13.00

802.11n HT40, 5150~5250 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5190	6.66	-6.103	12.76	13.00

802.11n HT40, 5250~5350 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5270	6.20	-5.028	11.23	13.00

802.11n HT40, 5470~5725 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5510	6.89	-5.760	12.65	13.00

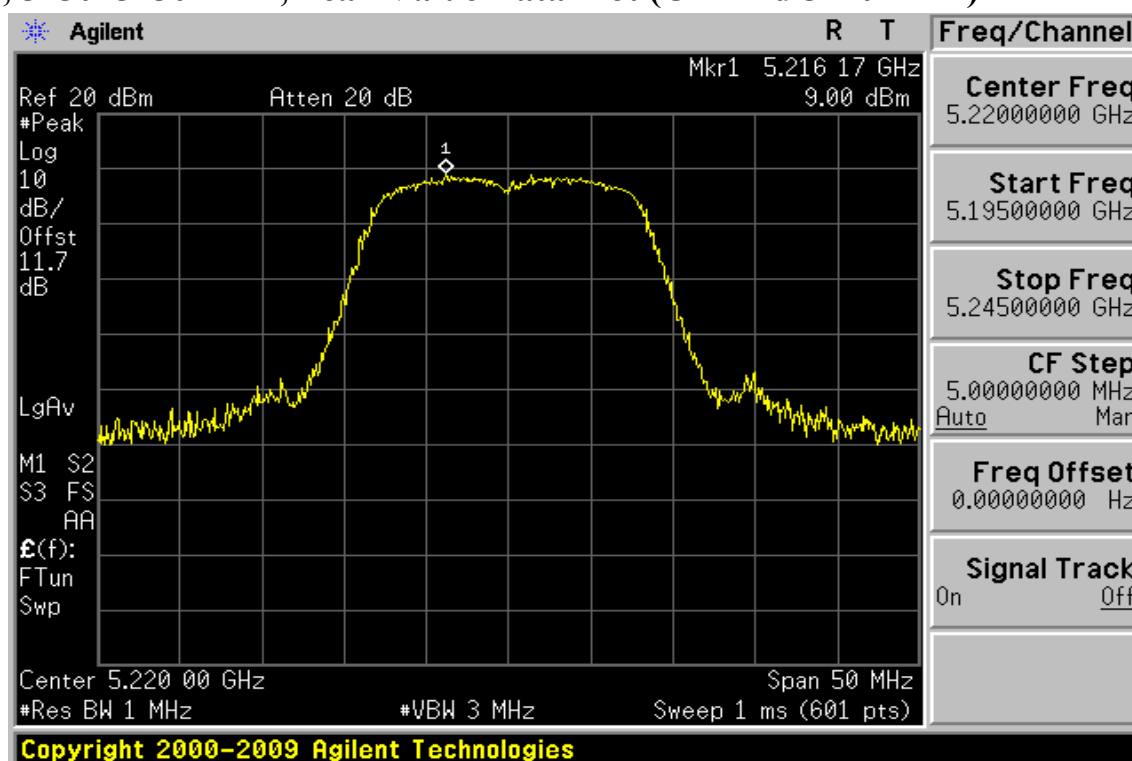
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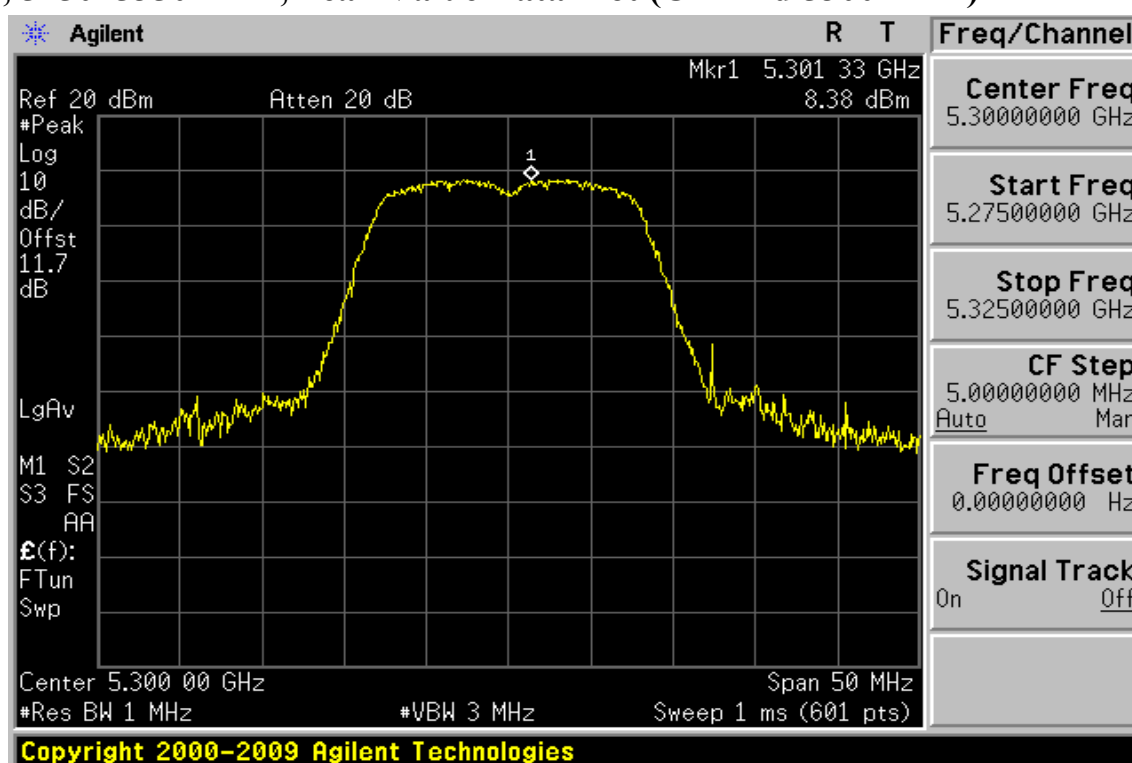
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Modulation Type: BPSK, Coding Rate: 1/2

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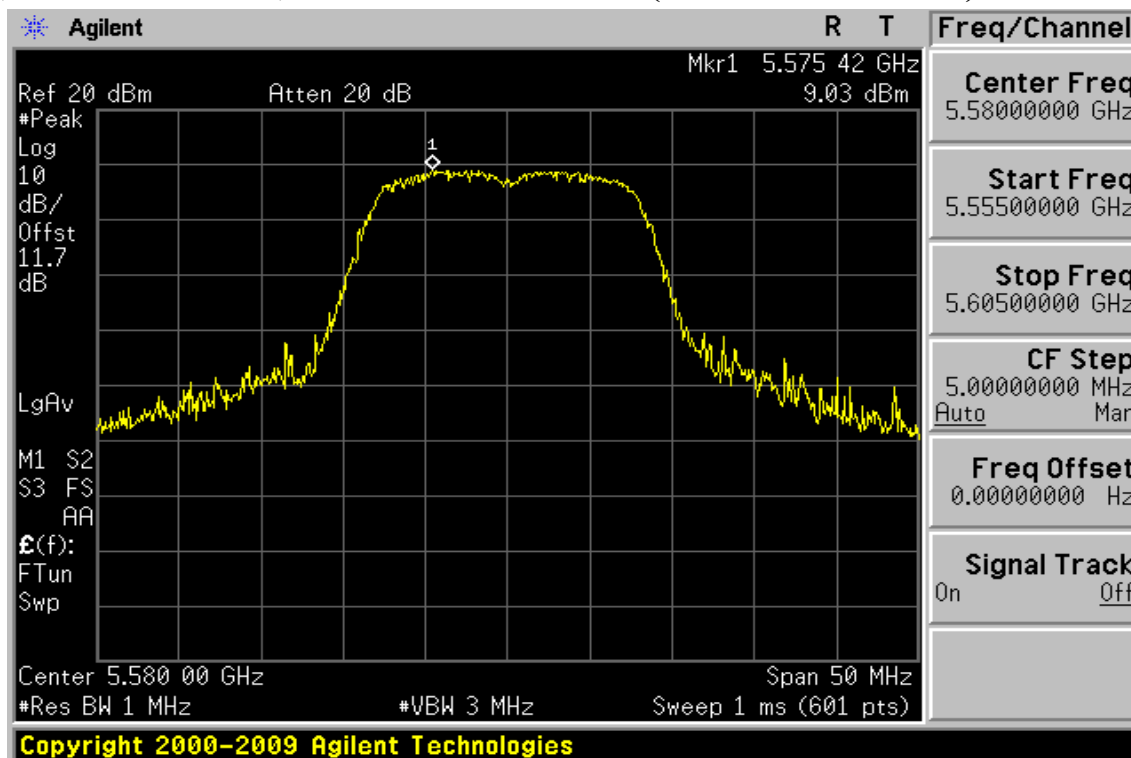
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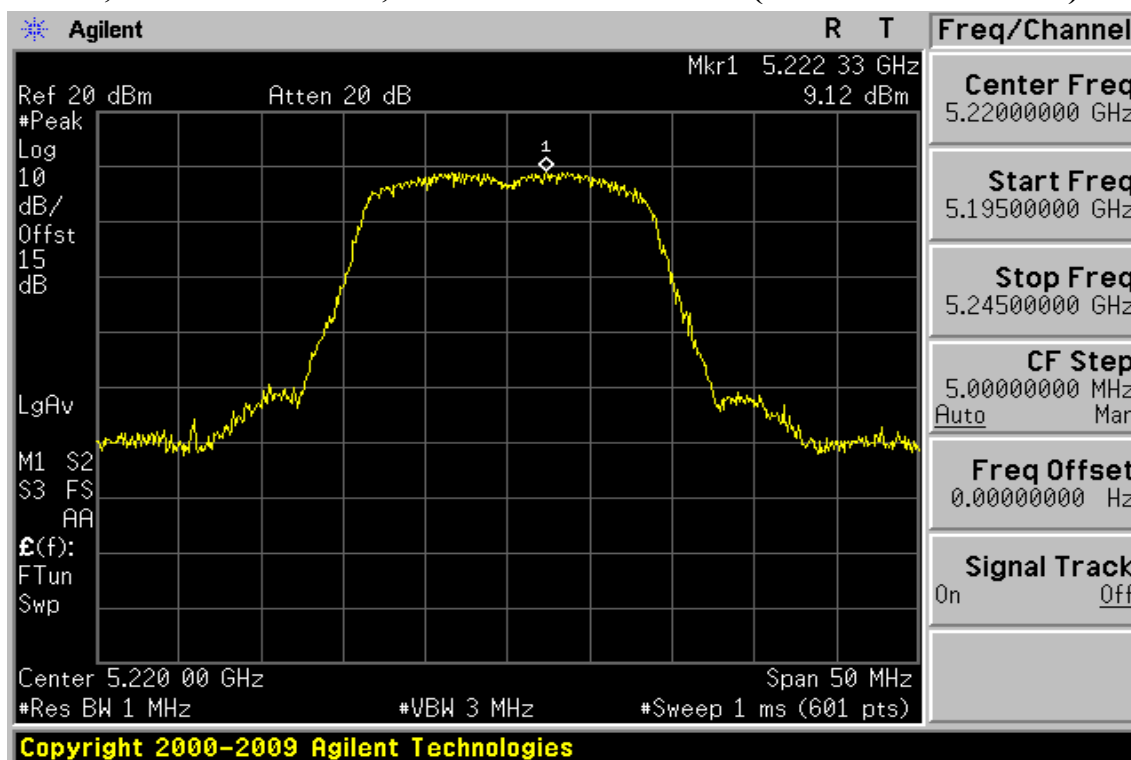
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802.11a, 5470~5725 MHz, Peak Value Data Plot (CH Mid 5580 MHz)



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

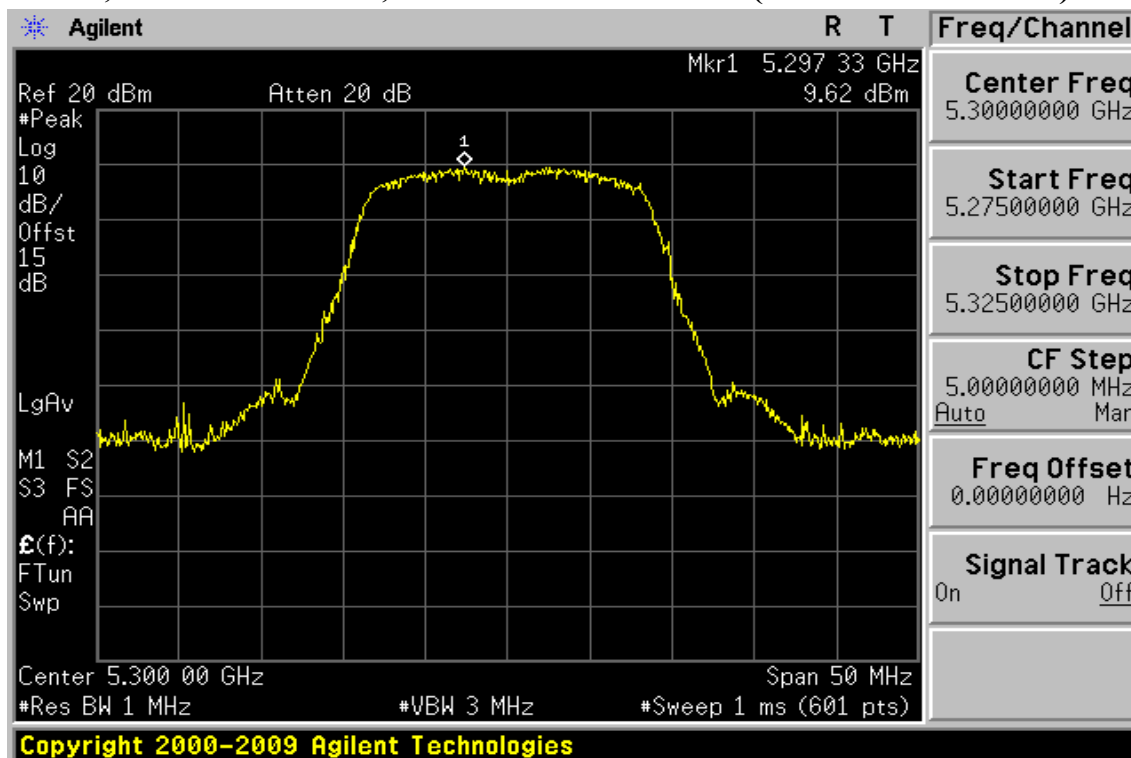


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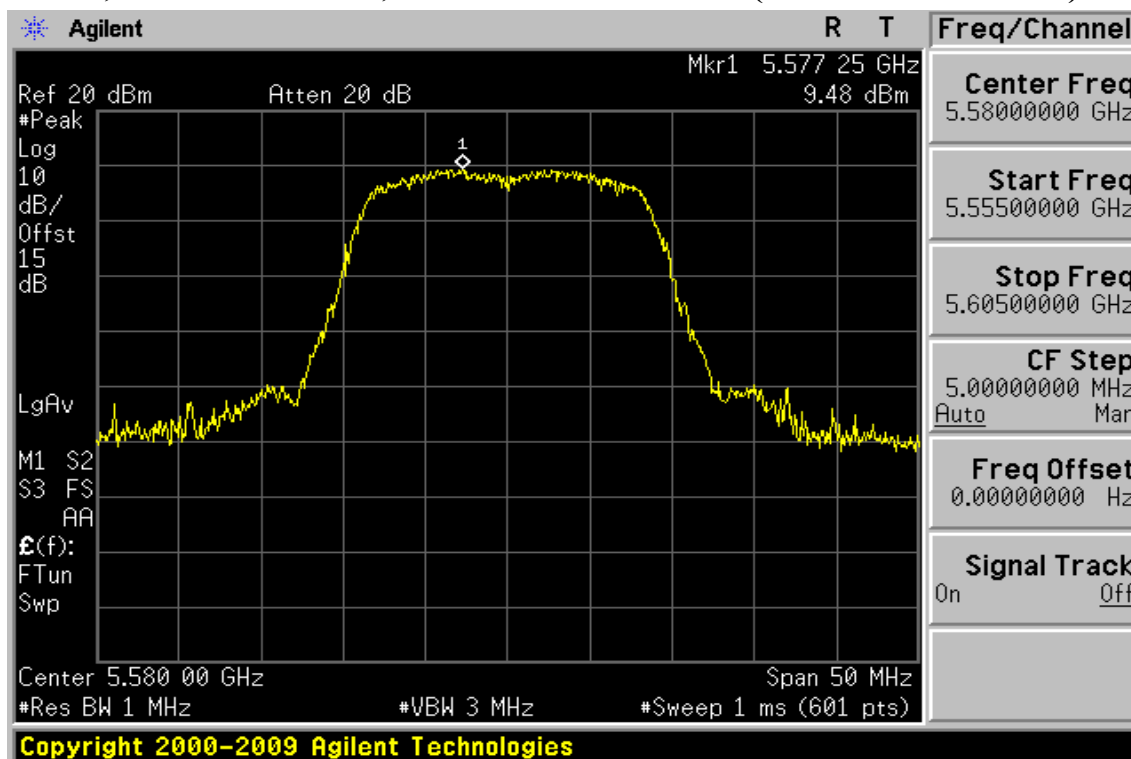
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802.11n HT20, 5250~5350 MHz, Peak Value Data Plot (CH Mid 5300MHz)



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

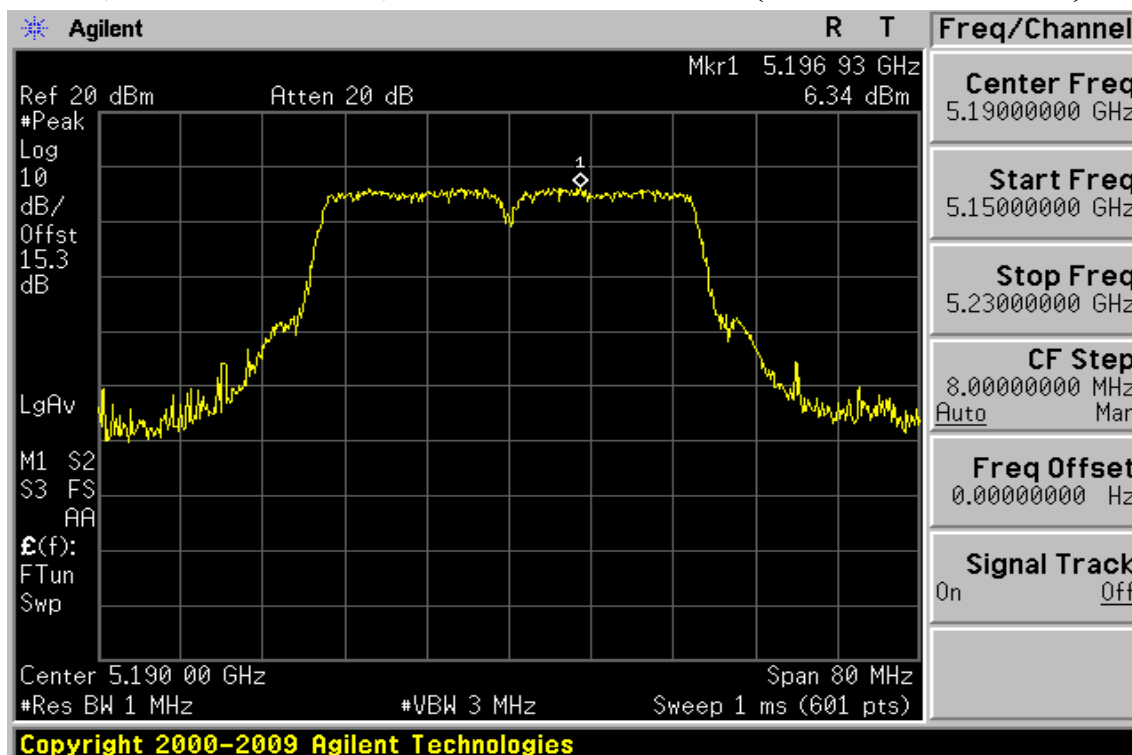


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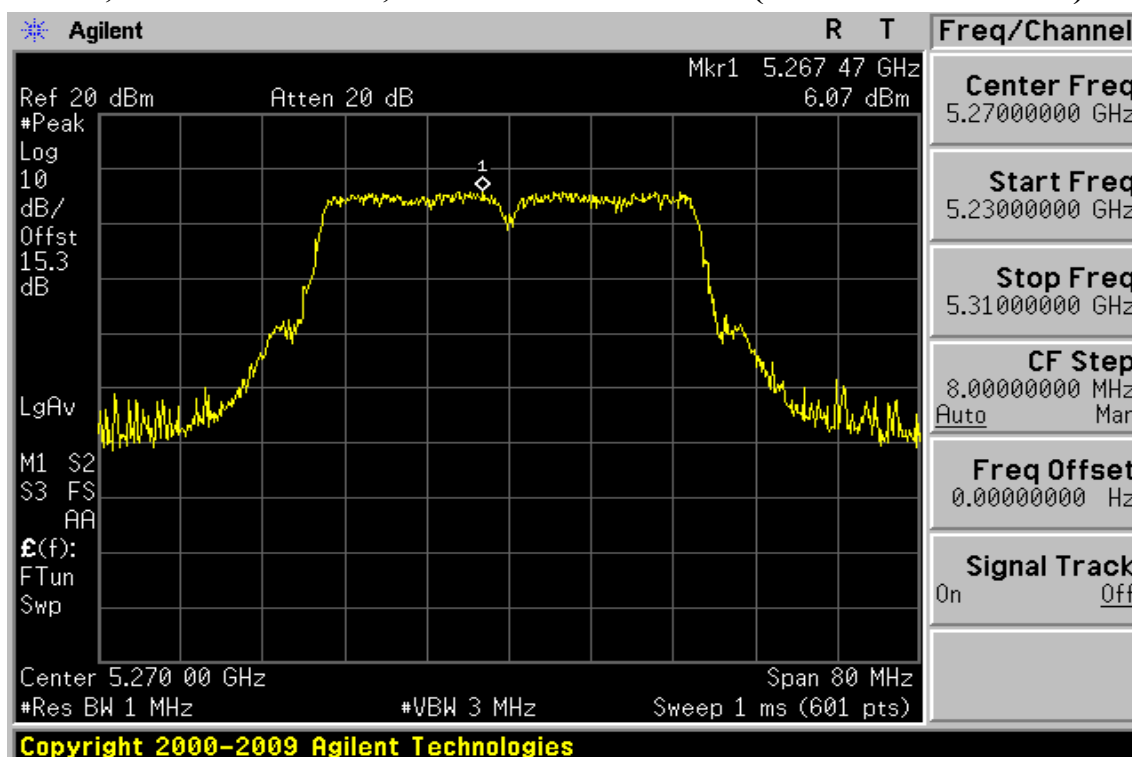
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802.11n HT40, 5150~5250 MHz, Peak Value Data Plot (CH Low 5190 MHz)



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

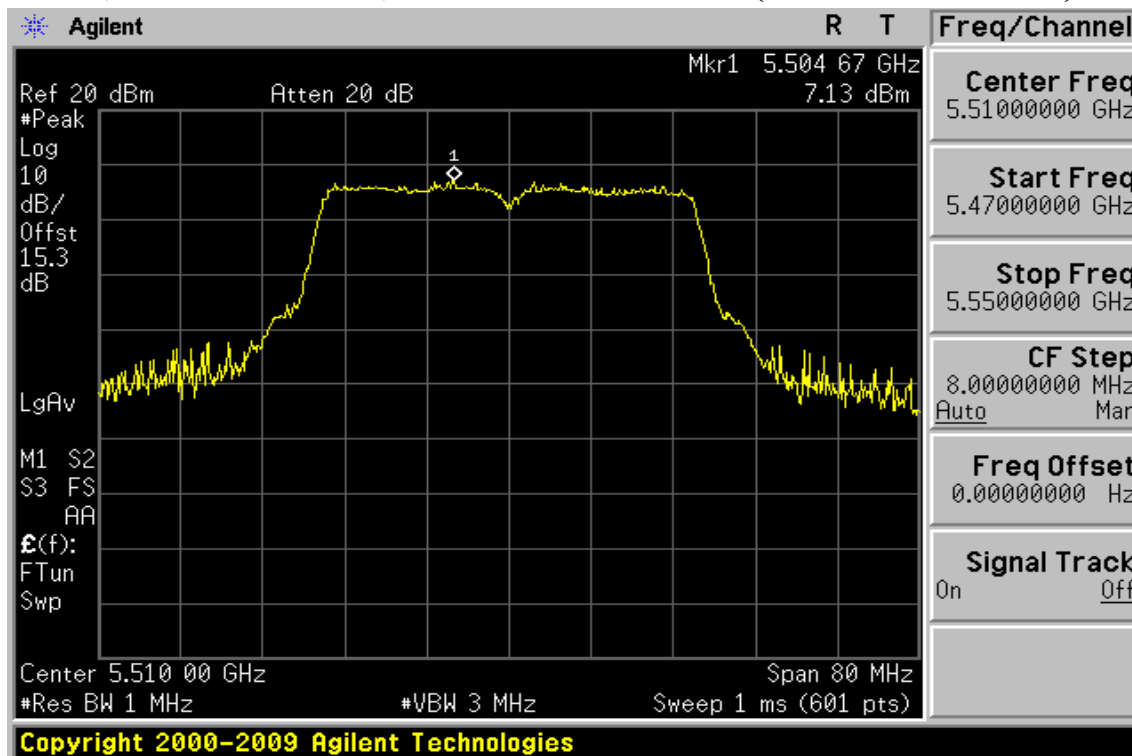


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802.11n HT40, 5470~5725 MHz, Peak Value Data Plot (CH Low 5510MHz)



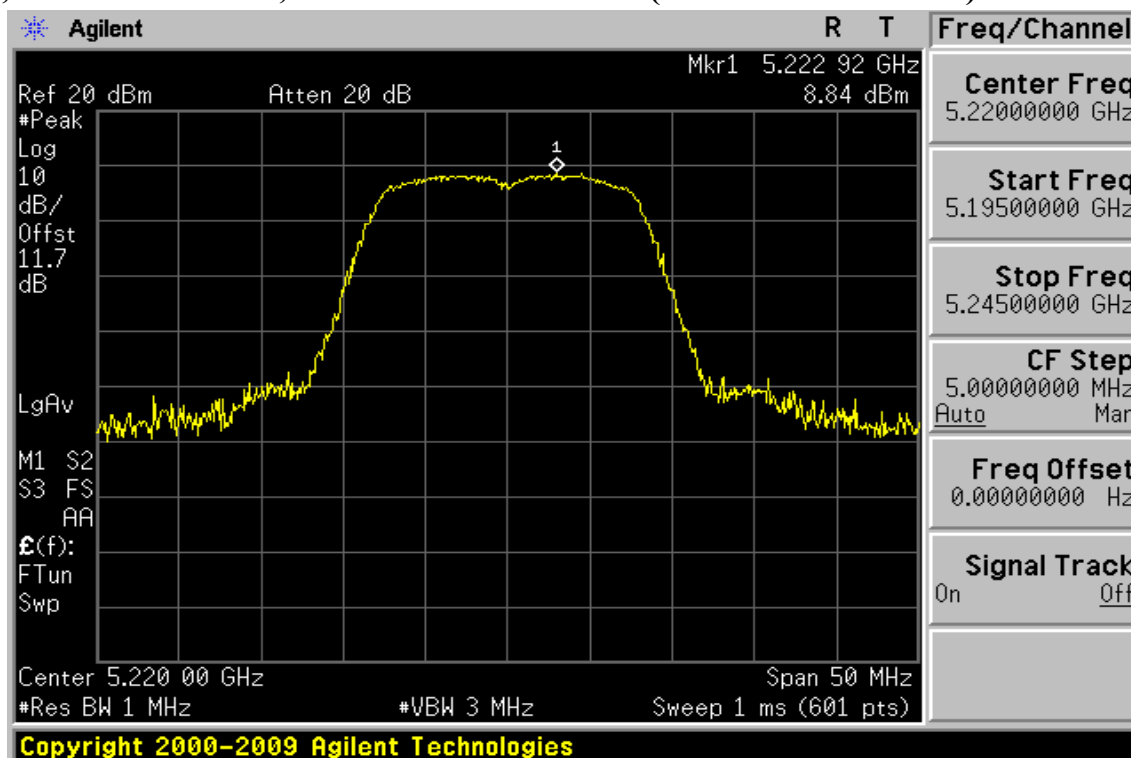
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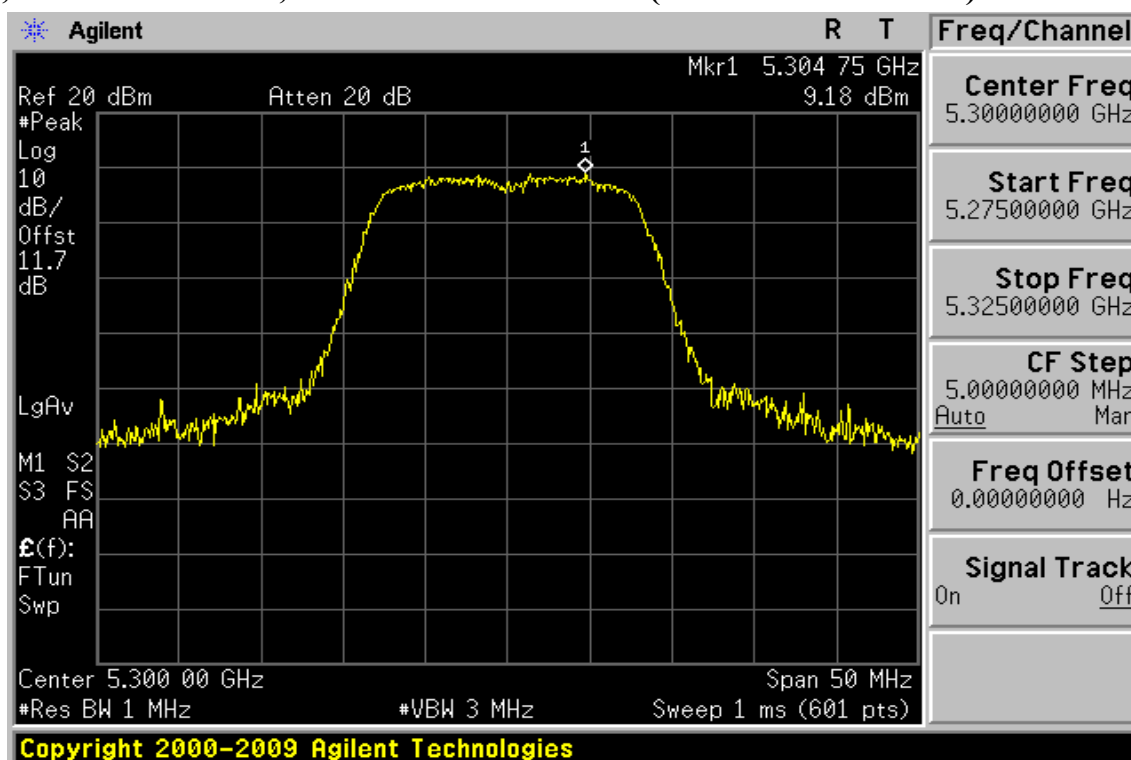
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Modulation Type: QPSK, Coding Rate: 1/2

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)

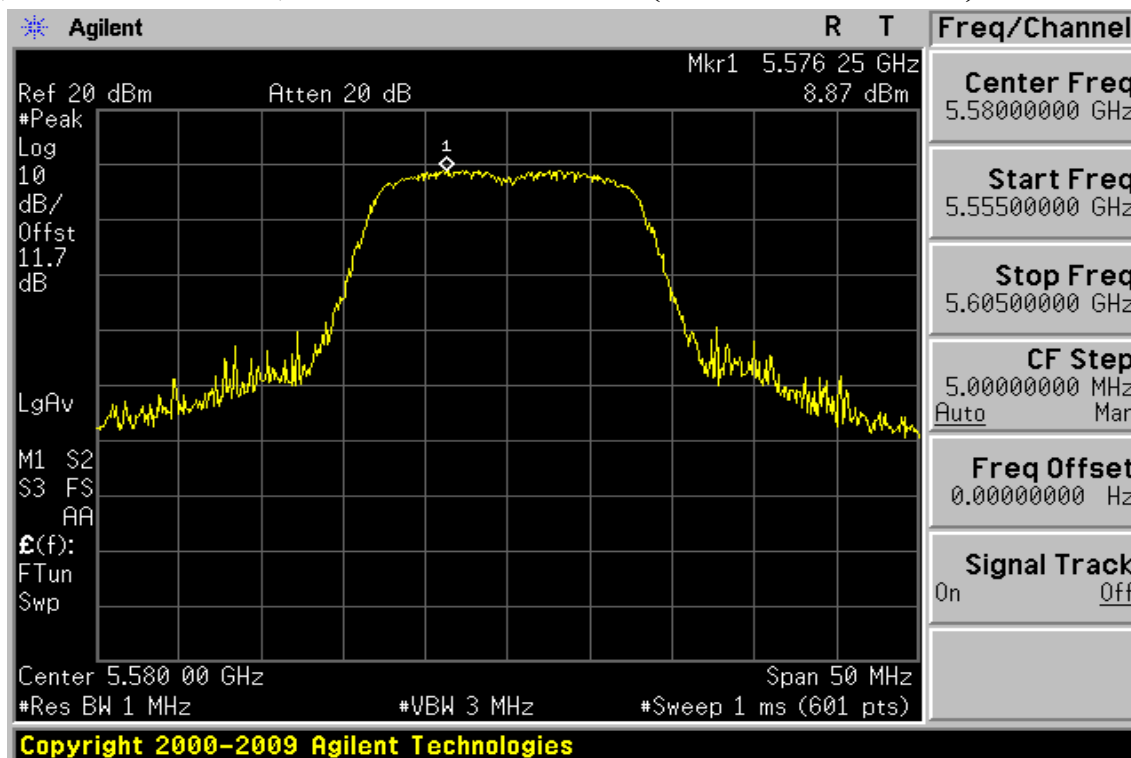


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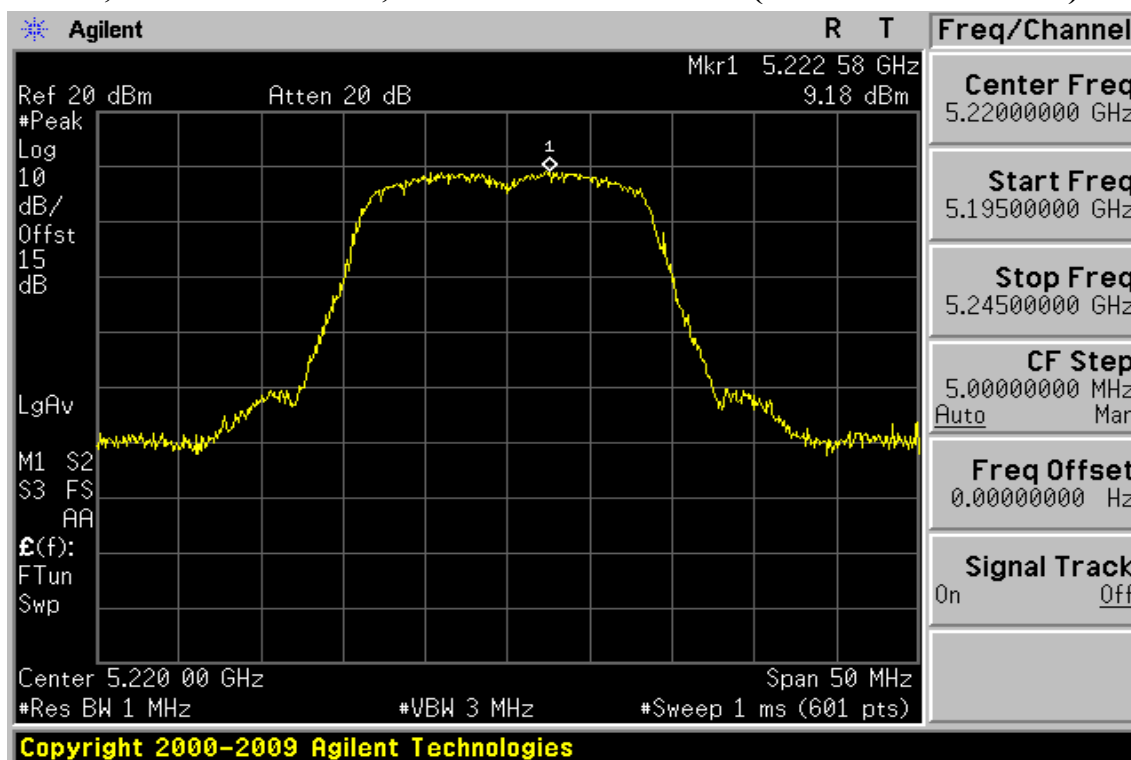
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802.11a, 5470~5725 MHz, Peak Value Data Plot (CH Mid 5580 MHz)



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

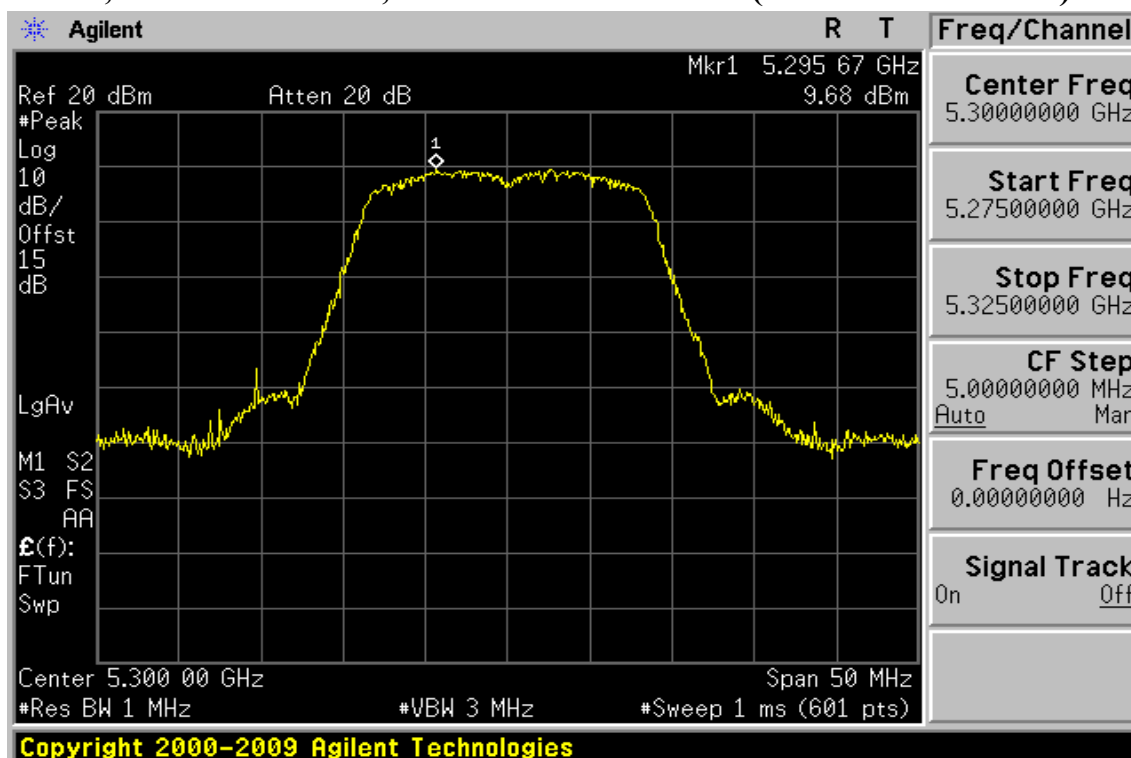


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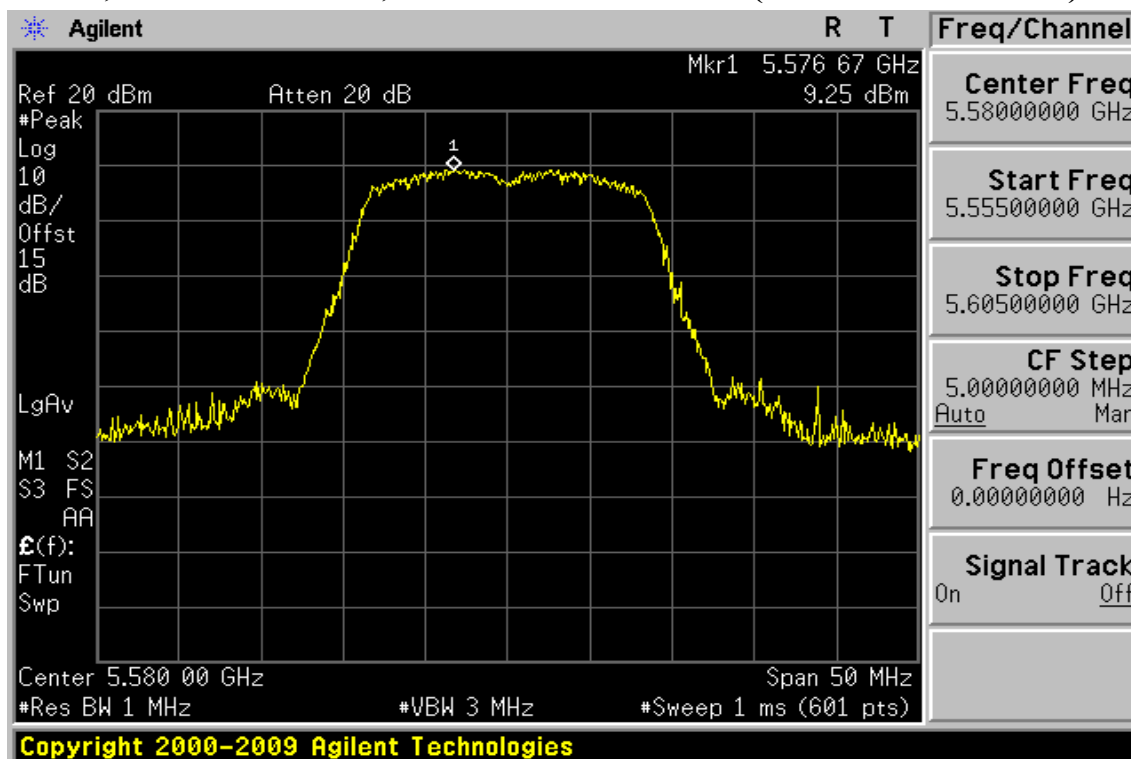
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802.11n HT20, 5250~5350 MHz, Peak Value Data Plot (CH Mid 5300MHz)



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

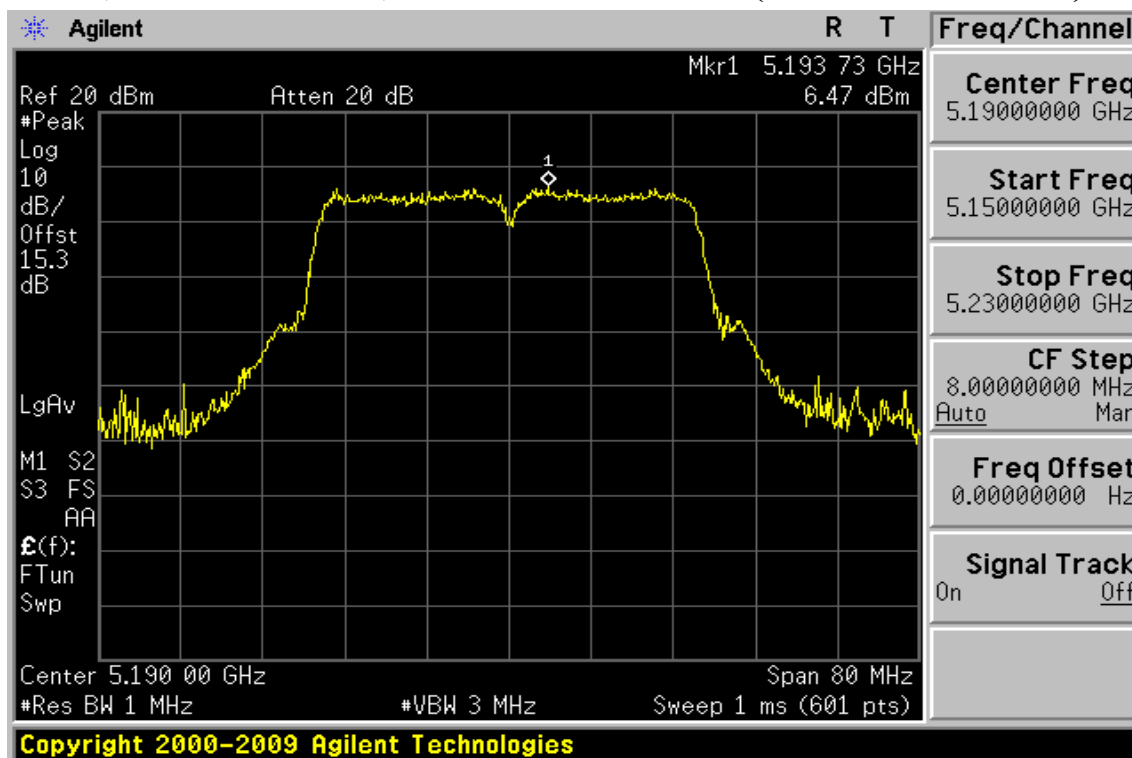


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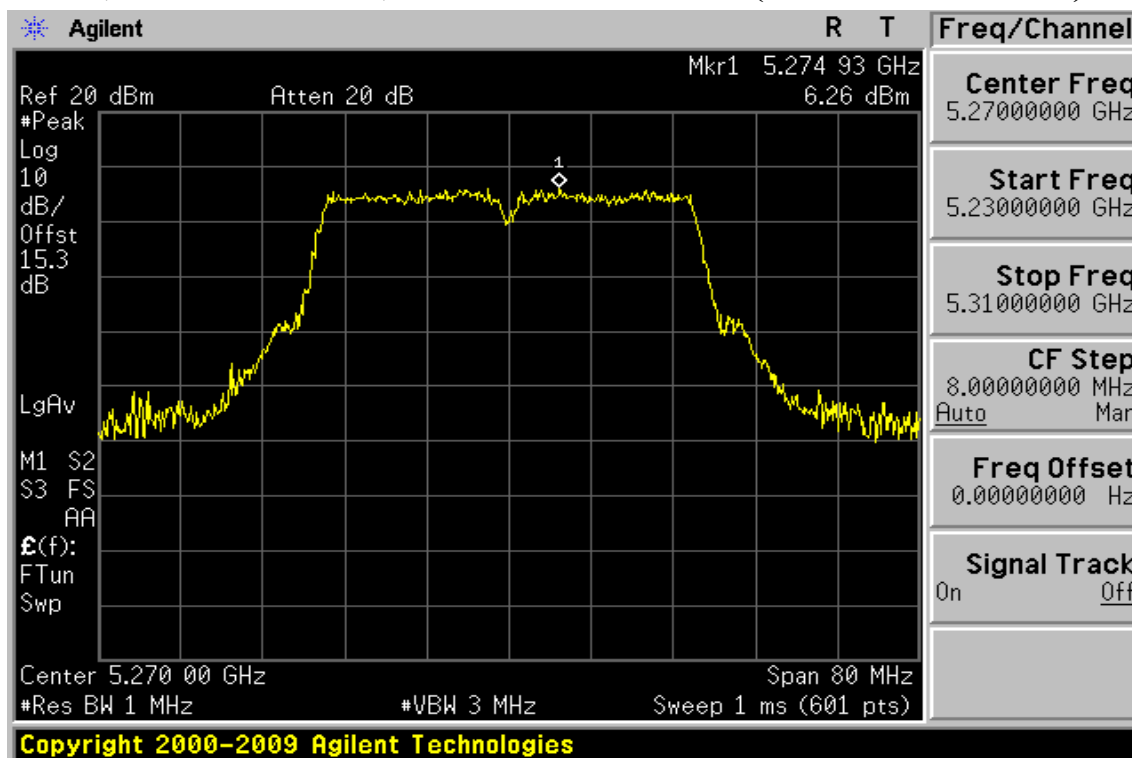
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802.11n HT40, 5150~5250 MHz, Peak Value Data Plot (CH Low 5190 MHz)



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

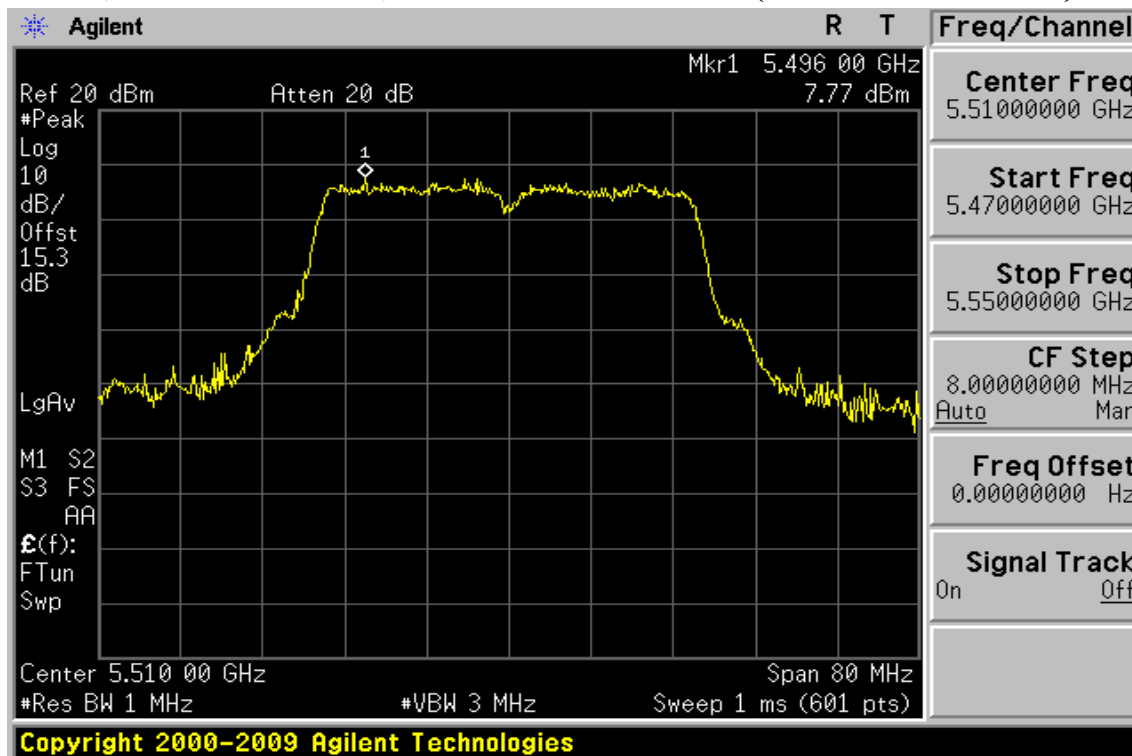


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802.11n HT40, 5470~5725 MHz, Peak Value Data Plot (CH Low 5510MHz)



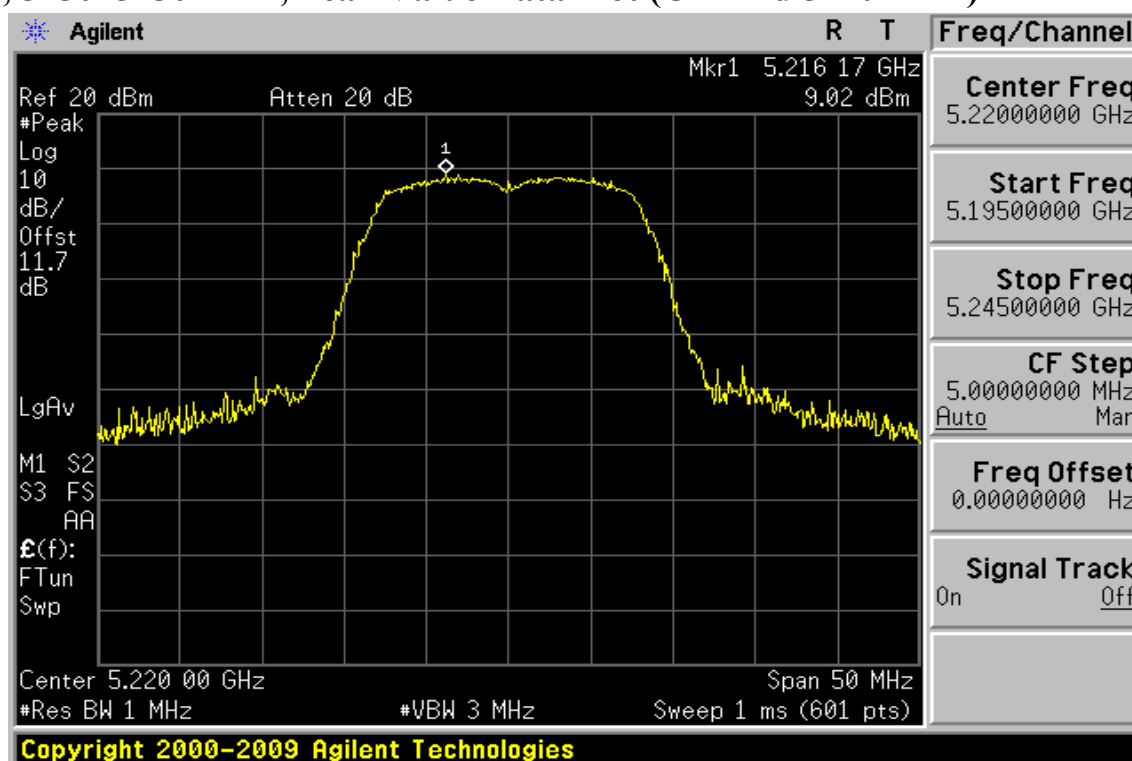
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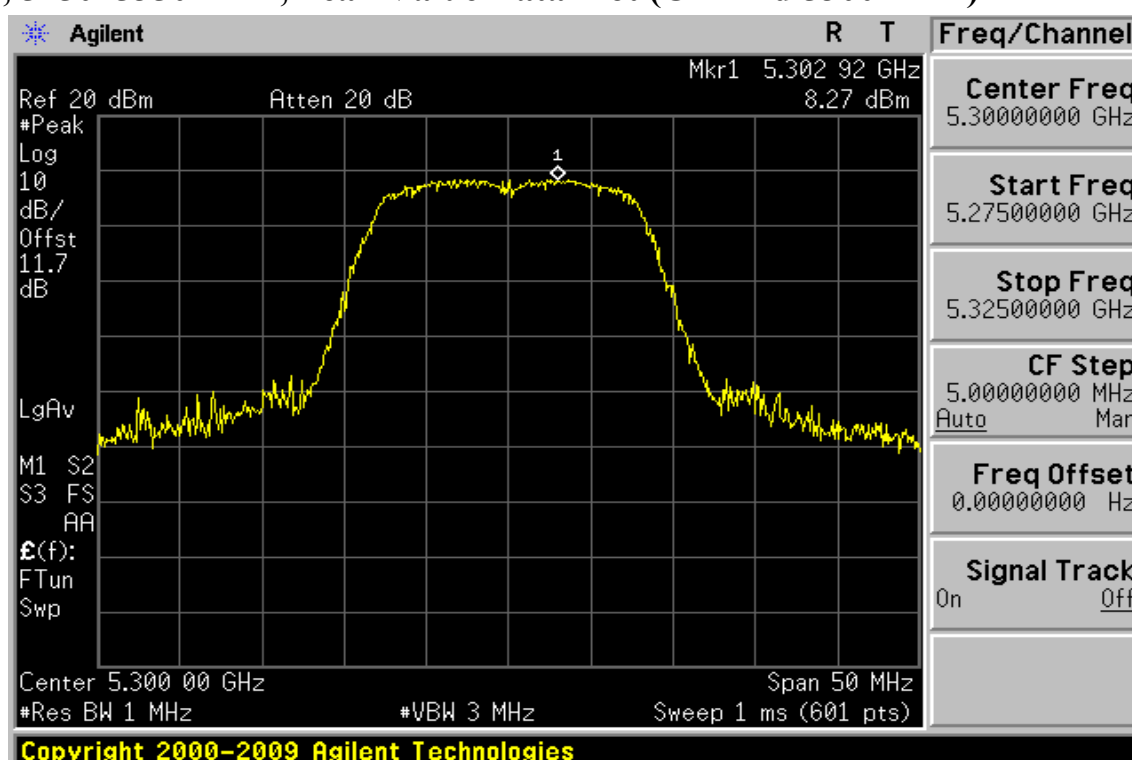
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Modulation Type: 16-QAM, Coding Rate: 1/2

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)

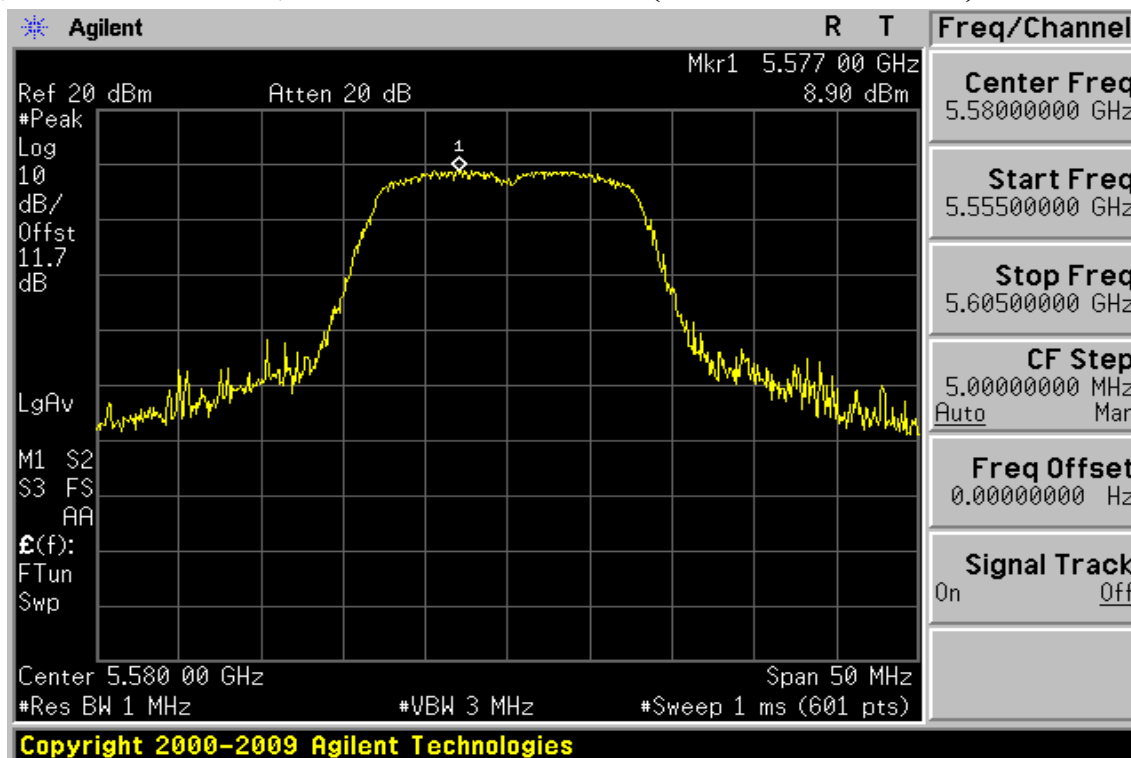


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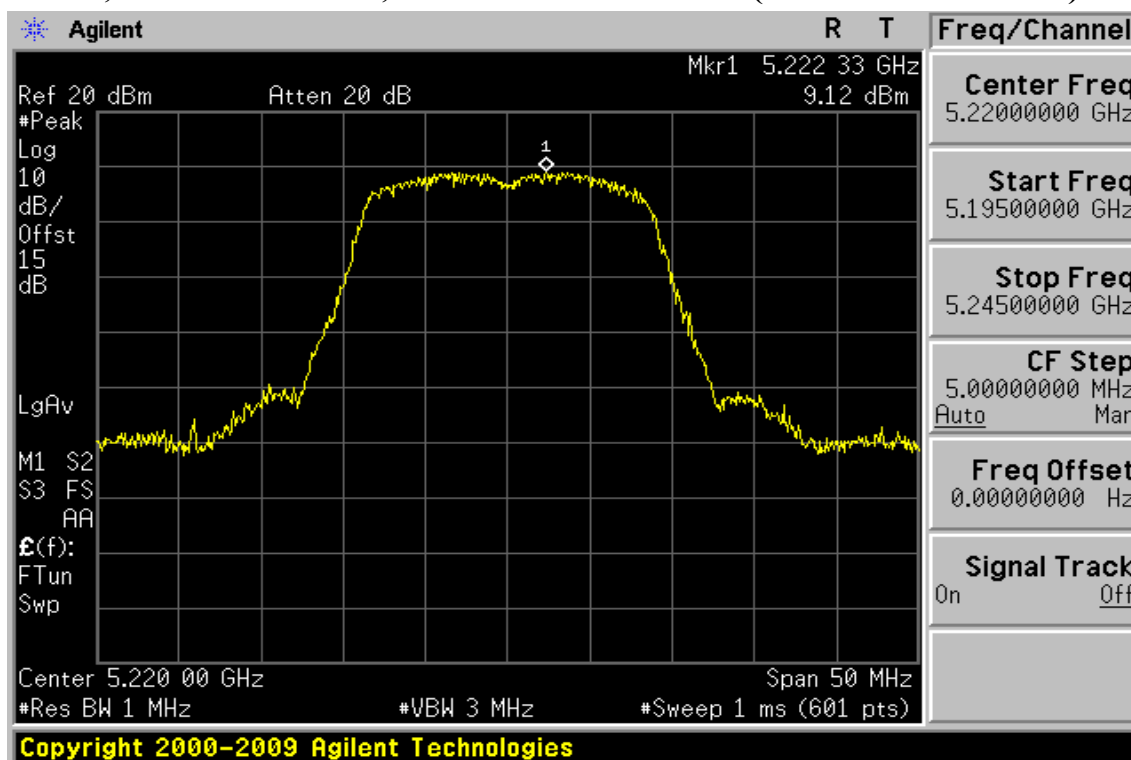
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802.11a, 5470~5725 MHz, Peak Value Data Plot (CH Mid 5580 MHz)



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

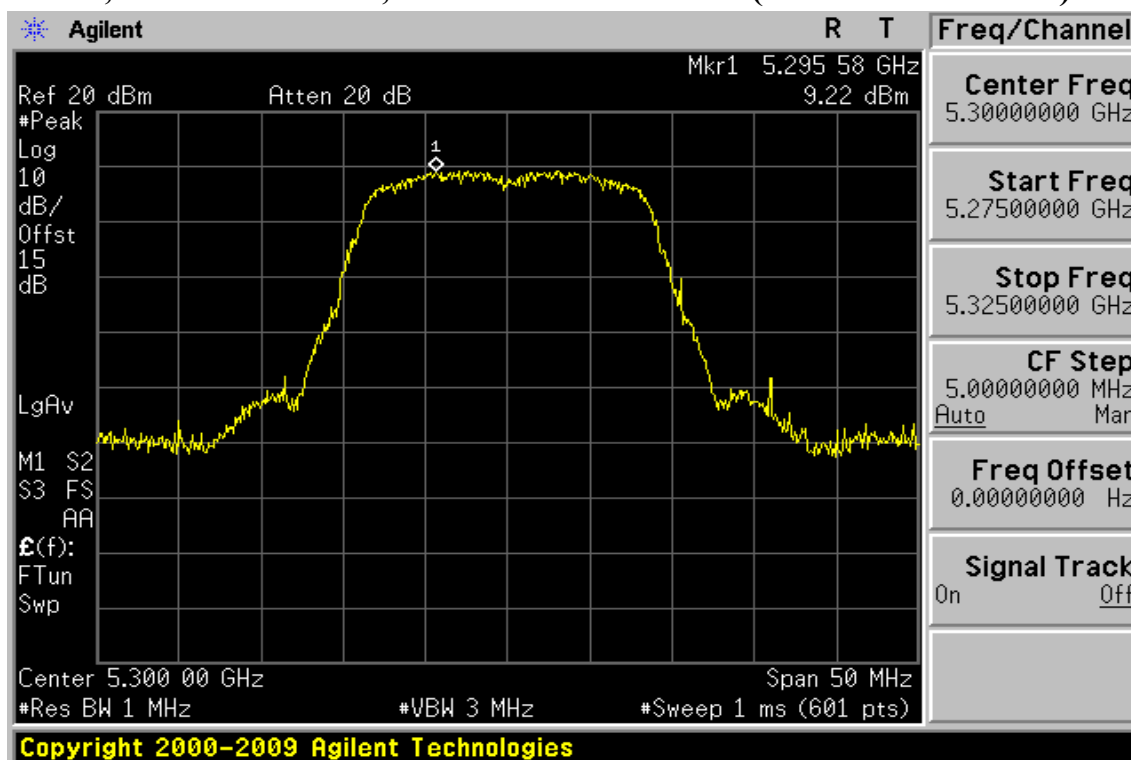


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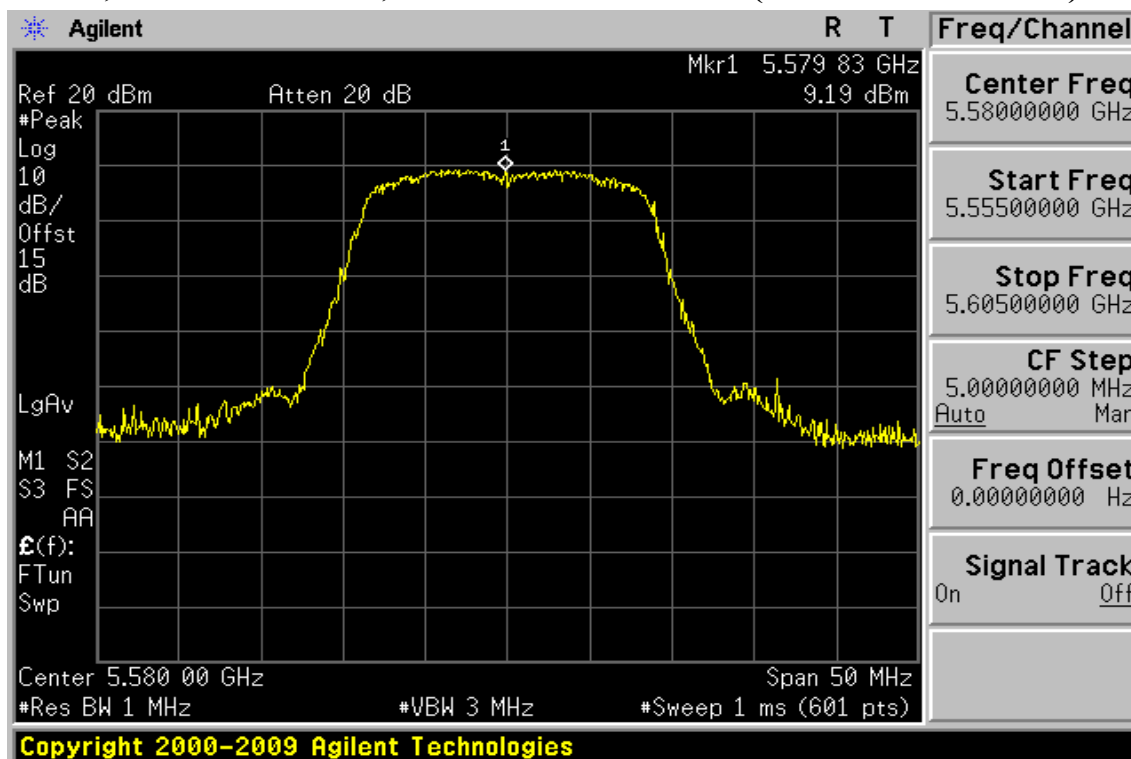
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802.11n HT20, 5250~5350 MHz, Peak Value Data Plot (CH Mid 5300MHz)



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

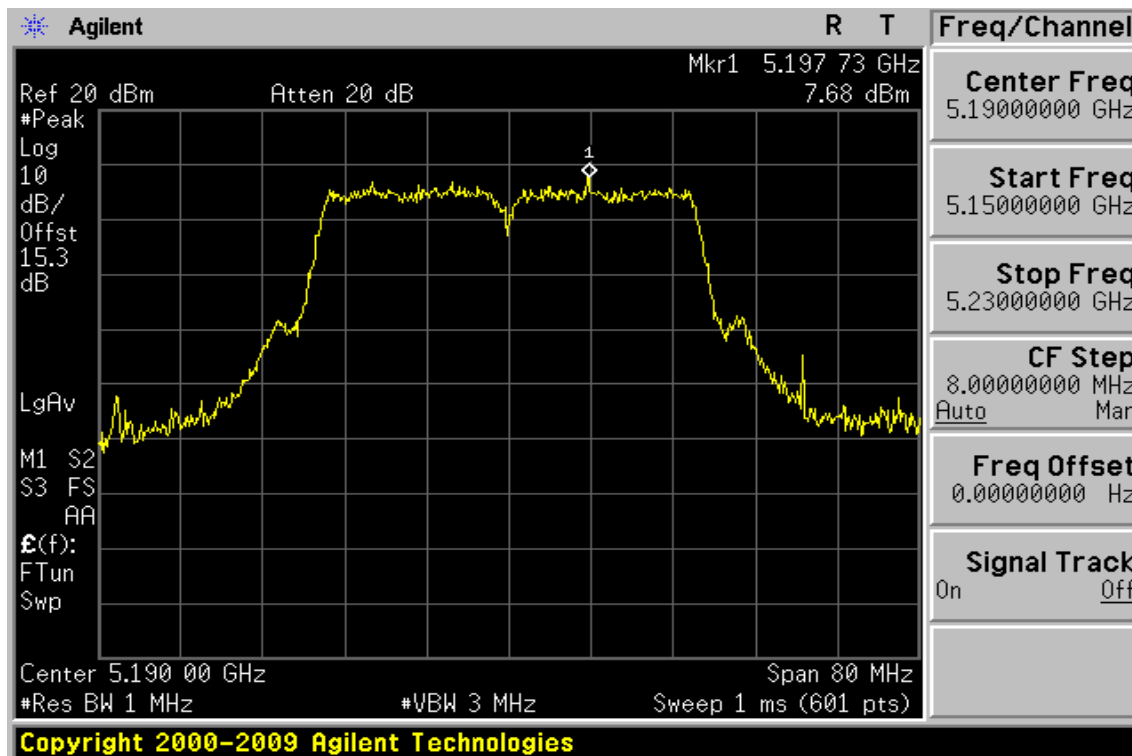


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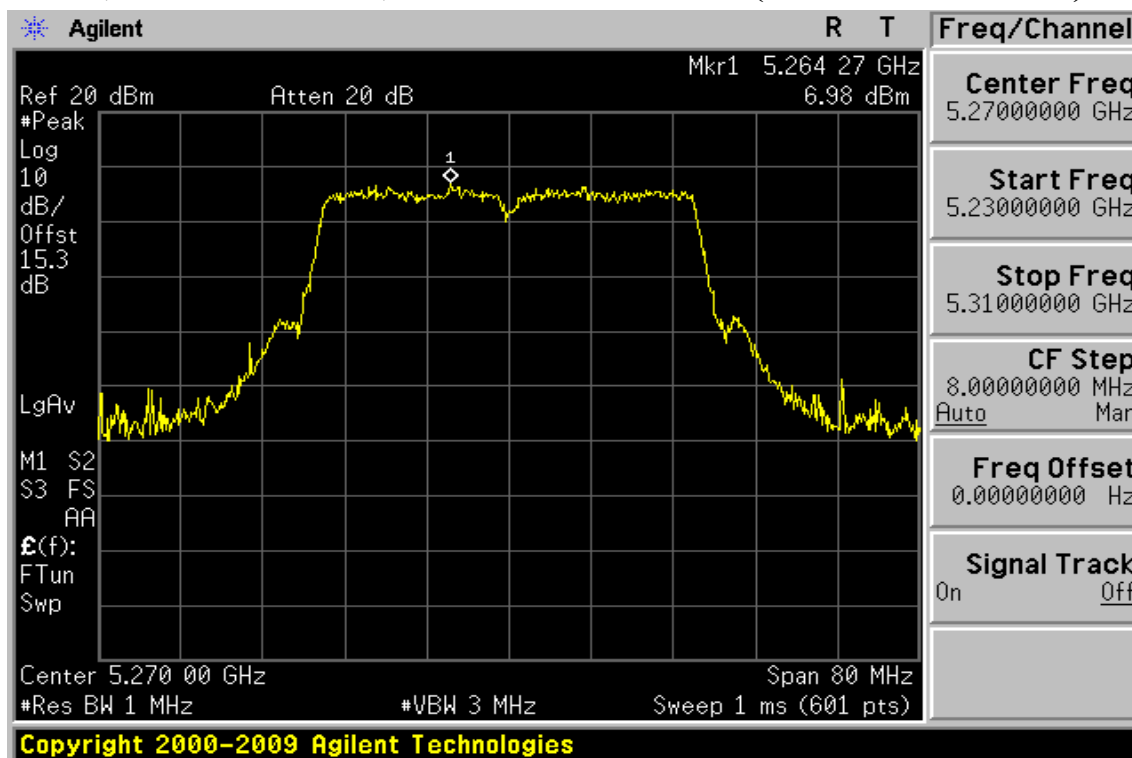
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802.11n HT40, 5150~5250 MHz, Peak Value Data Plot (CH Low 5190 MHz)



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

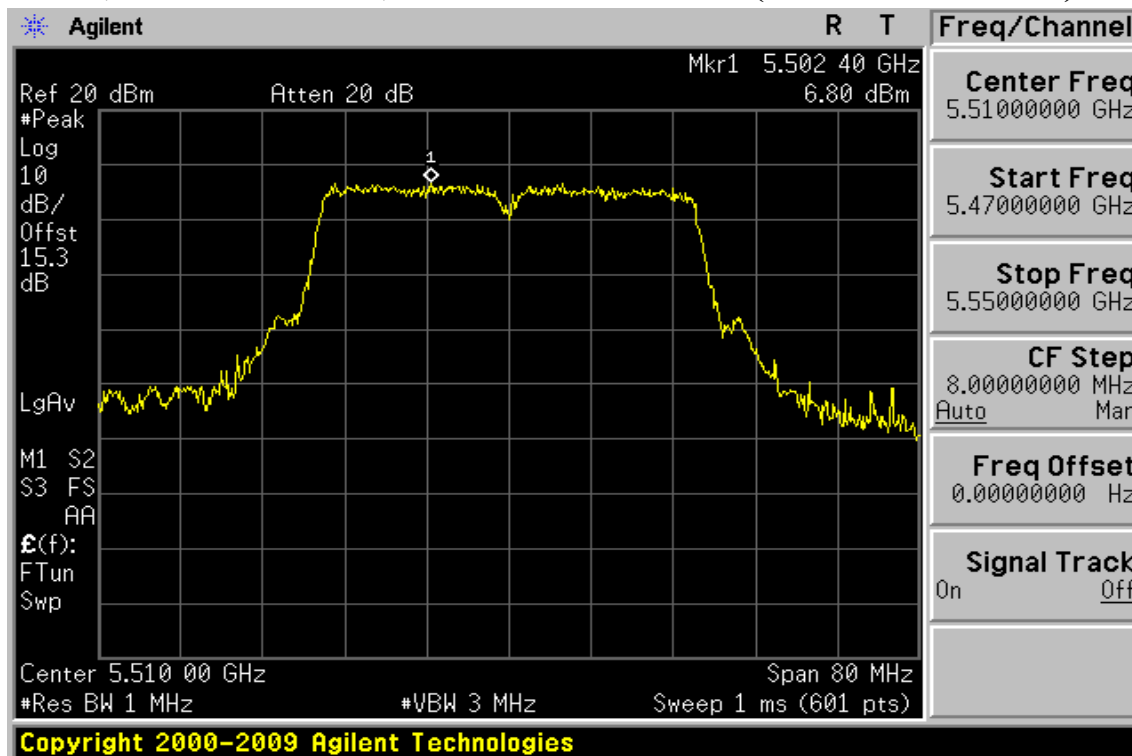


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802.11n HT40, 5470~5725 MHz, Peak Value Data Plot (CH Low 5510MHz)



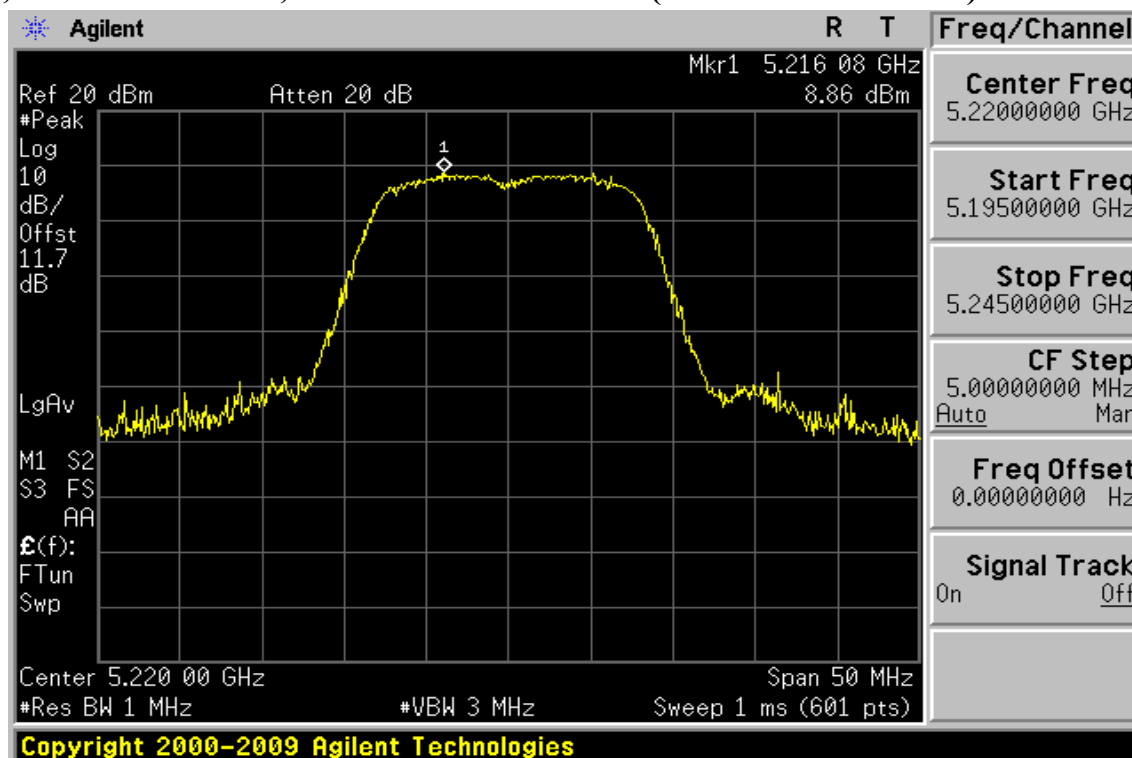
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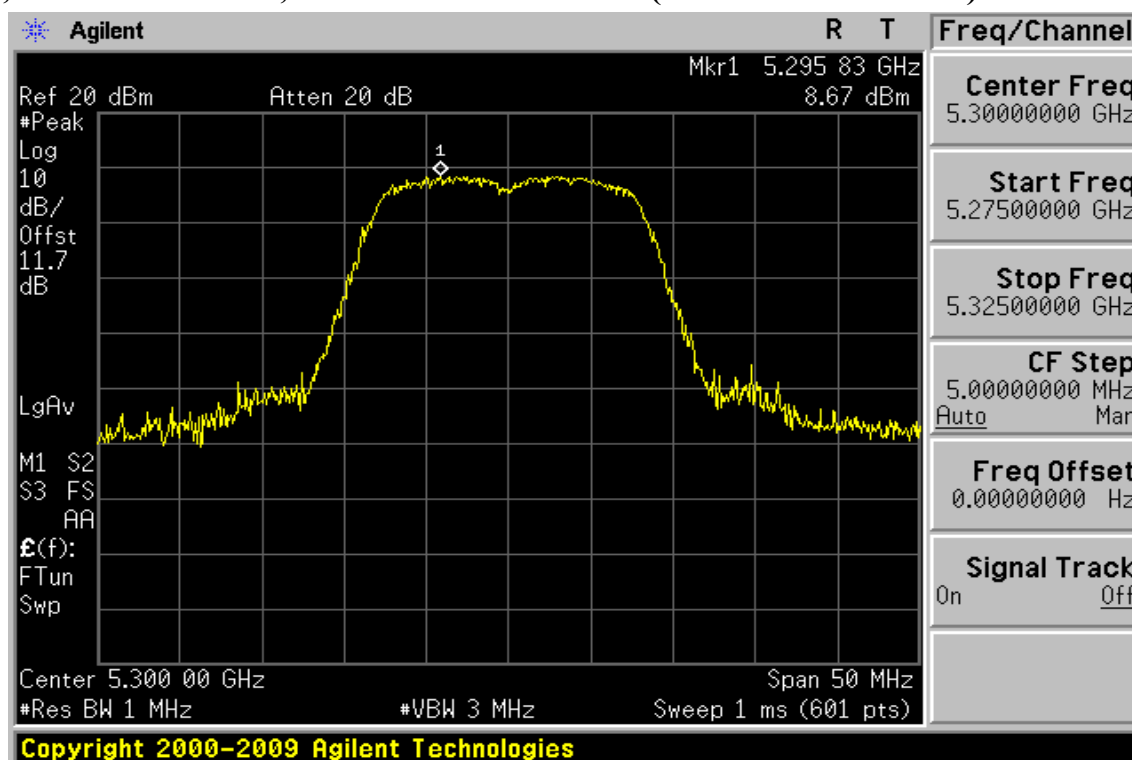
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Modulation Type: 64-QAM, Coding Rate: 2/3

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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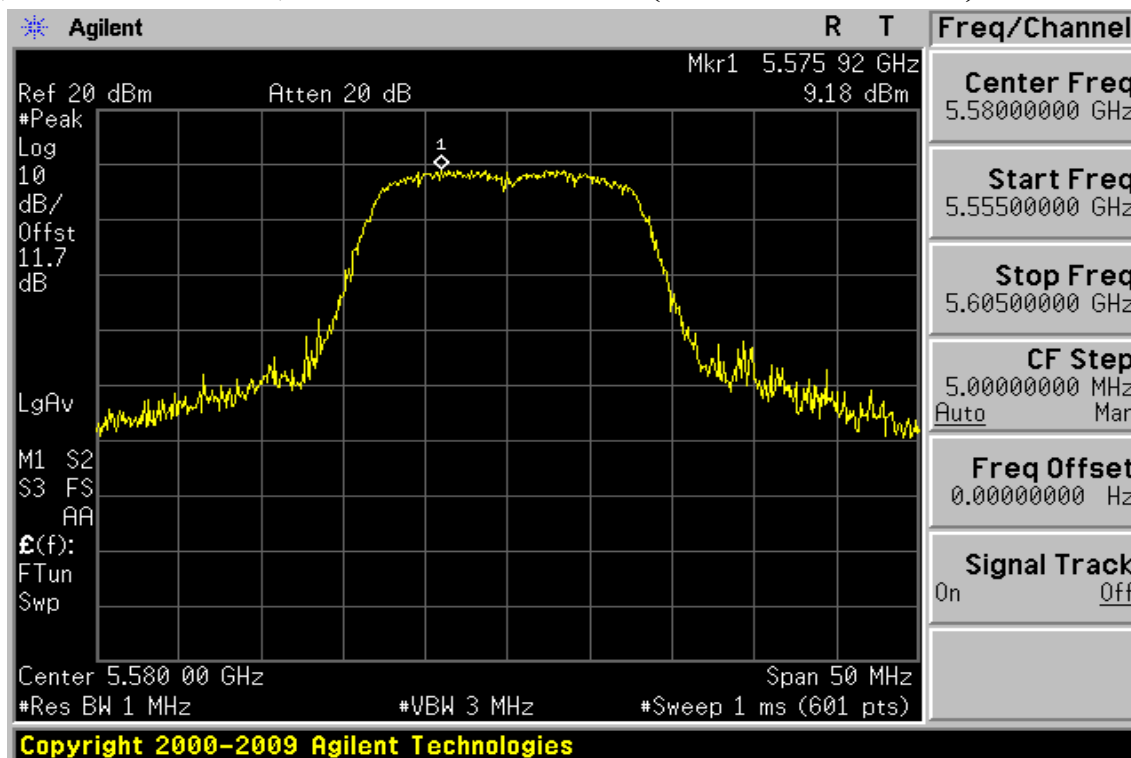
t (886-2) 2299-3279

f (886-2) 2298-0488

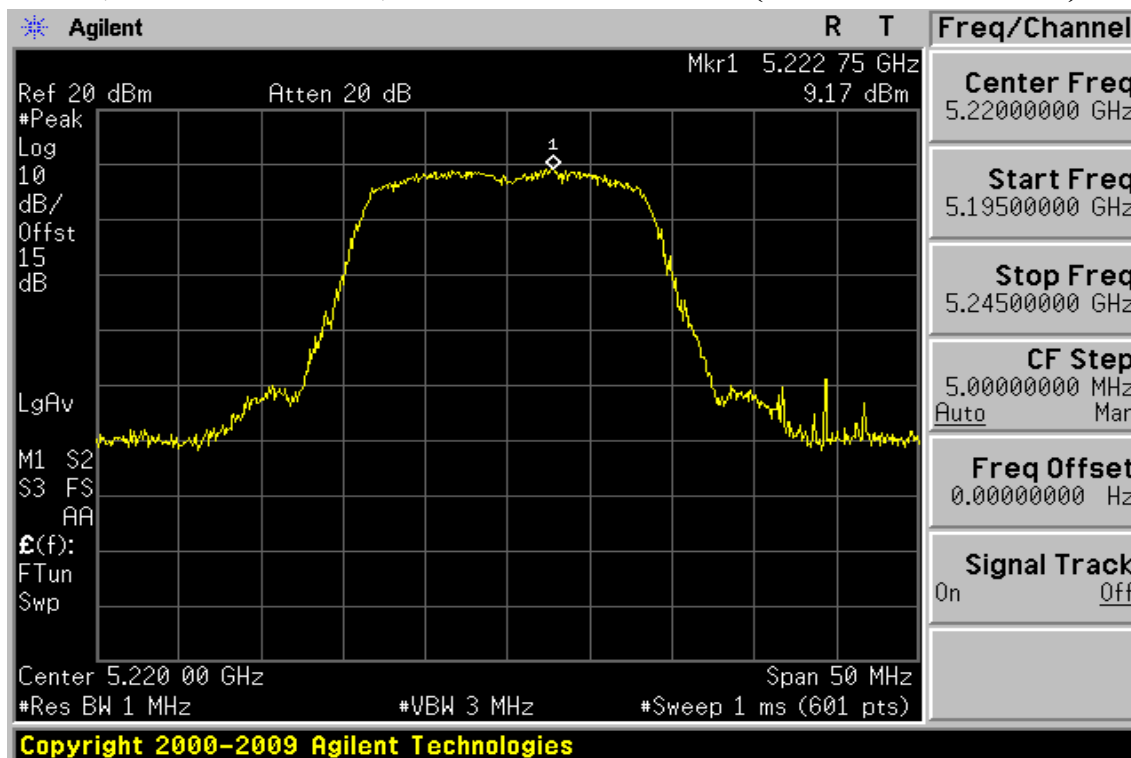
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Member of SGS Group

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)

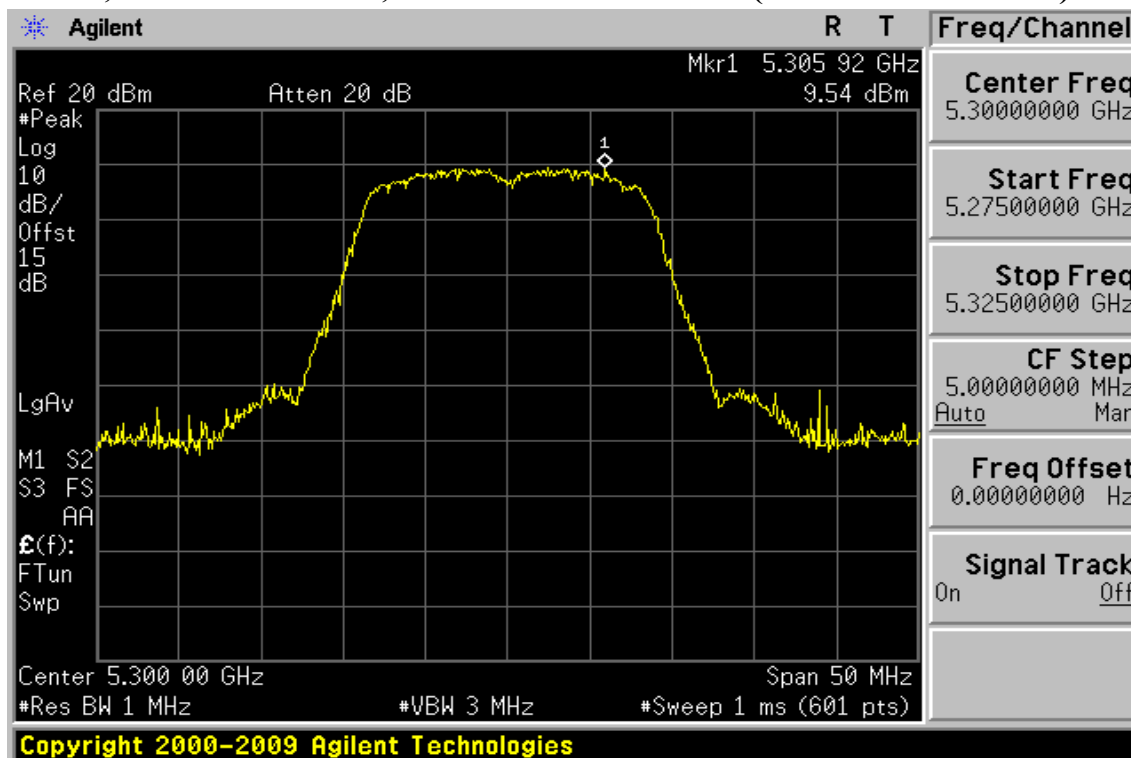


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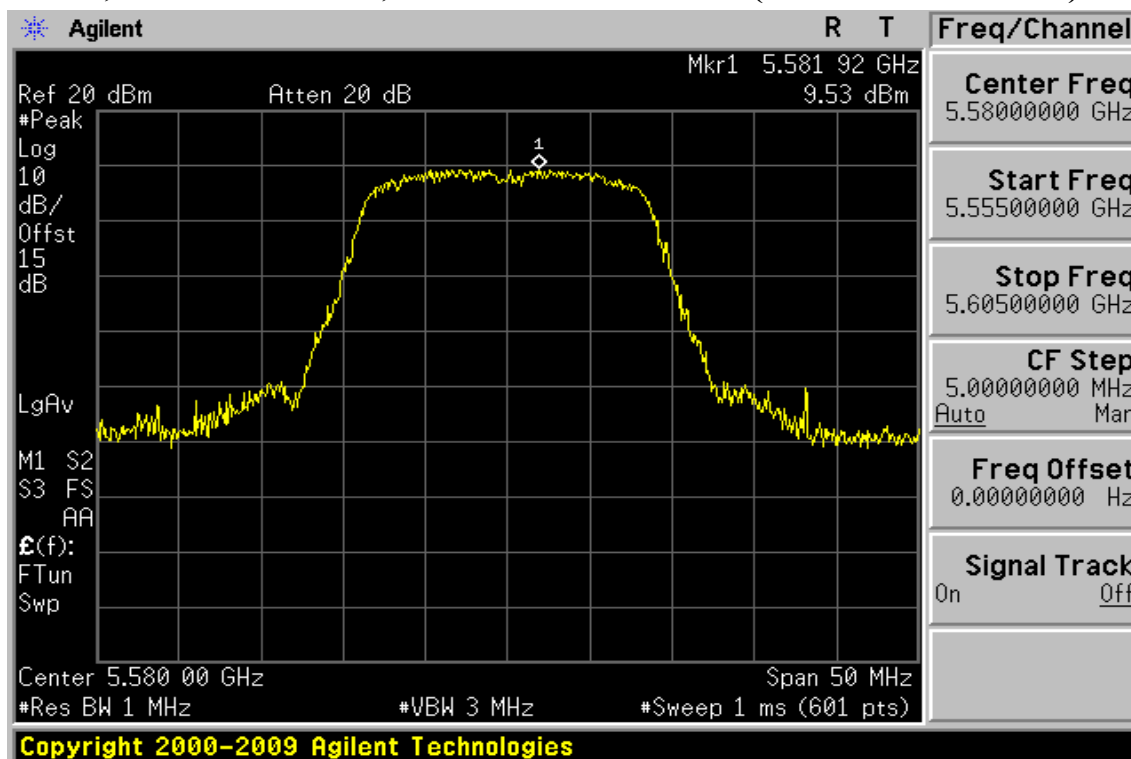
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802.11n HT20, 5250~5350 MHz, Peak Value Data Plot (CH Mid 5300MHz)



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

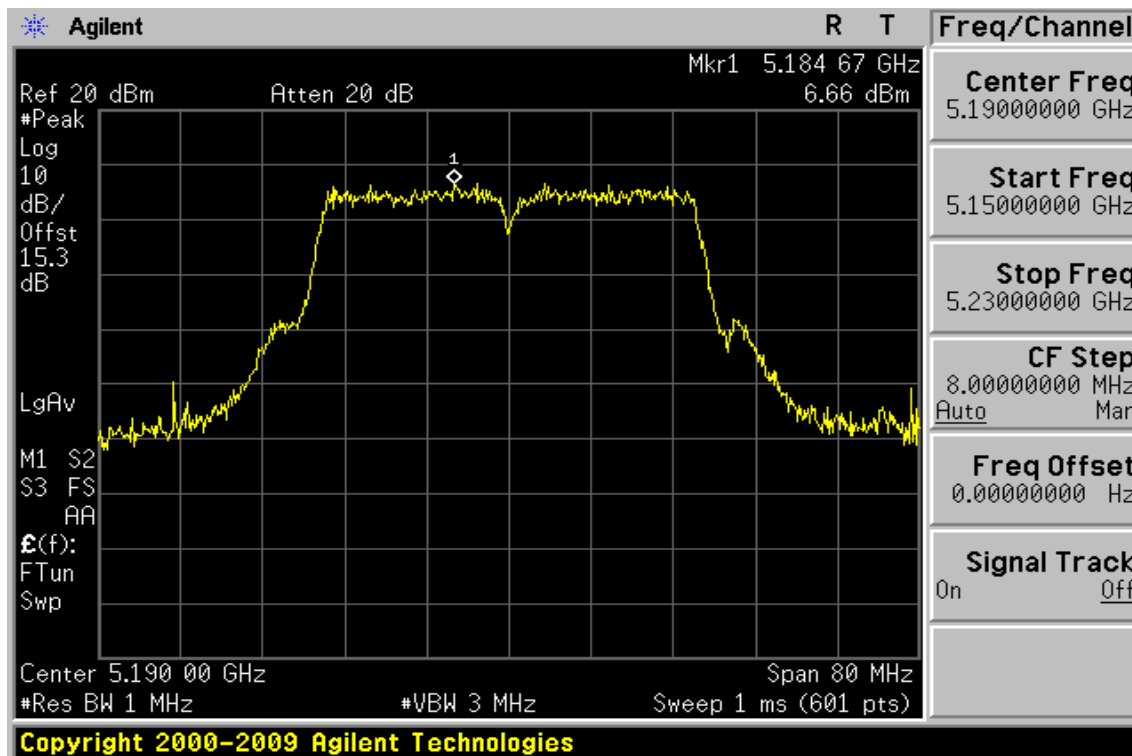


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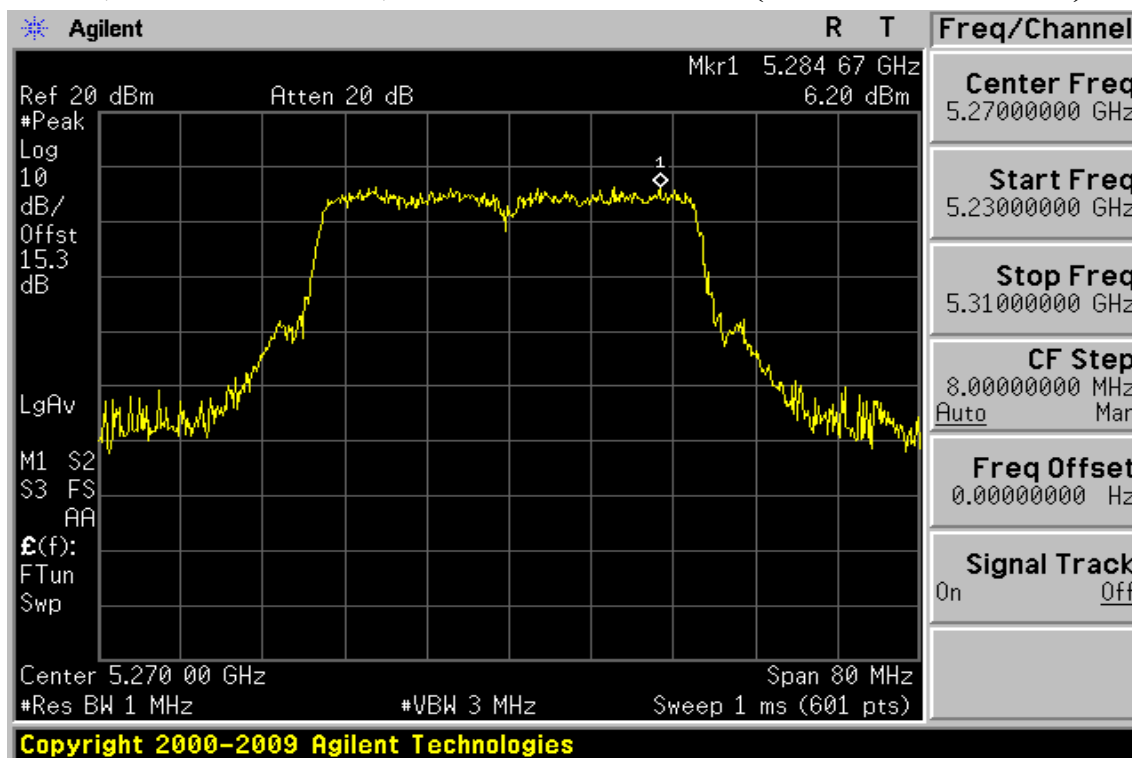
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802.11n HT40, 5150~5250 MHz, Peak Value Data Plot (CH Low 5190 MHz)



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

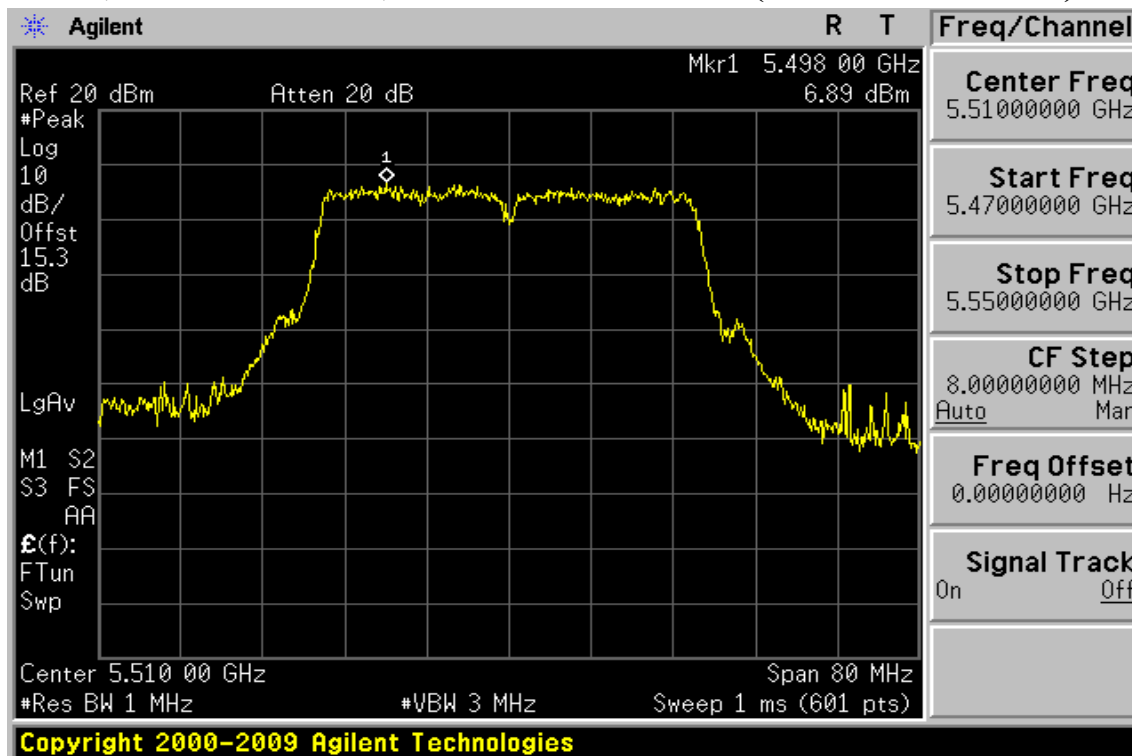


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802.11n HT40, 5470~5725 MHz, Peak Value Data Plot (CH Low 5510MHz)



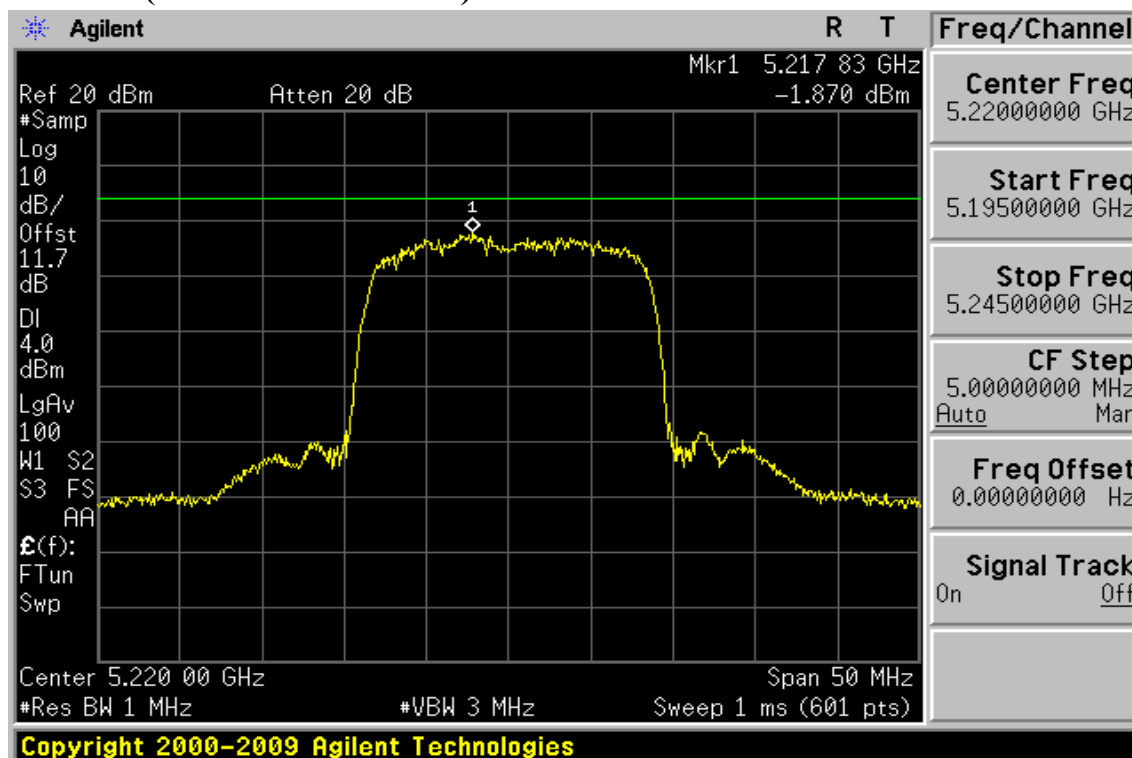
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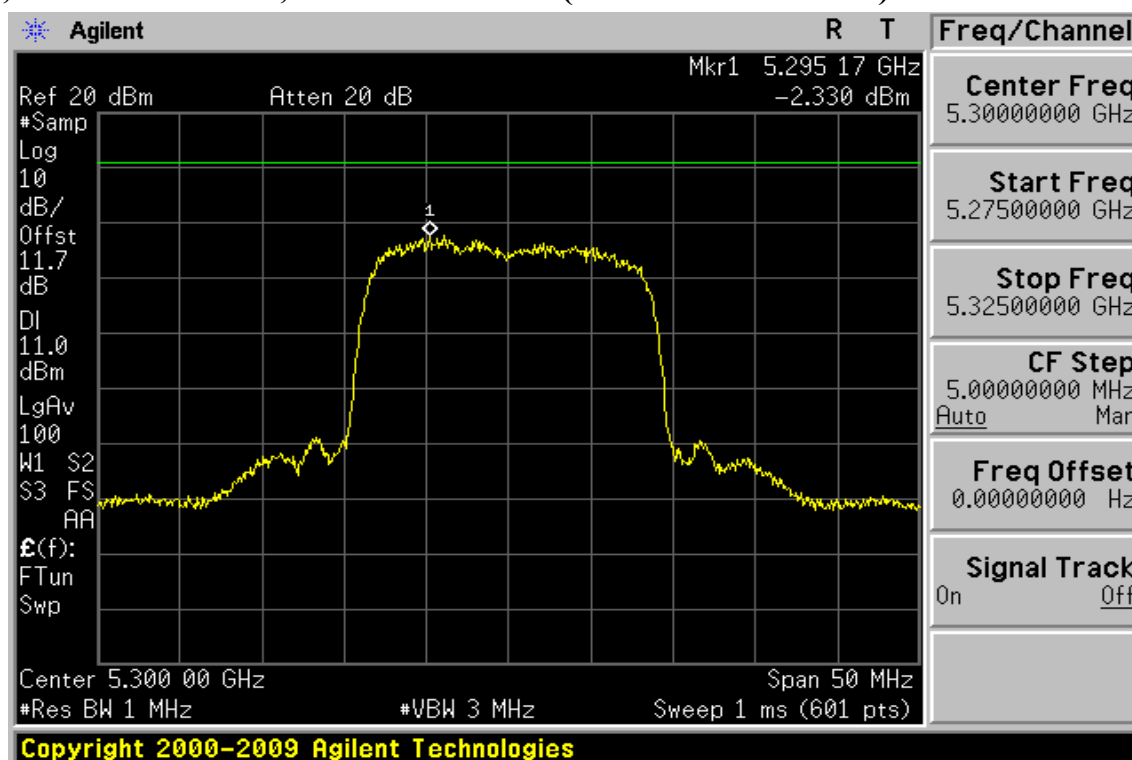
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Modulation Type: BPSK, Coding Rate: 1/2

PPSD Data Plot (CH Mid 5220 MHz)



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

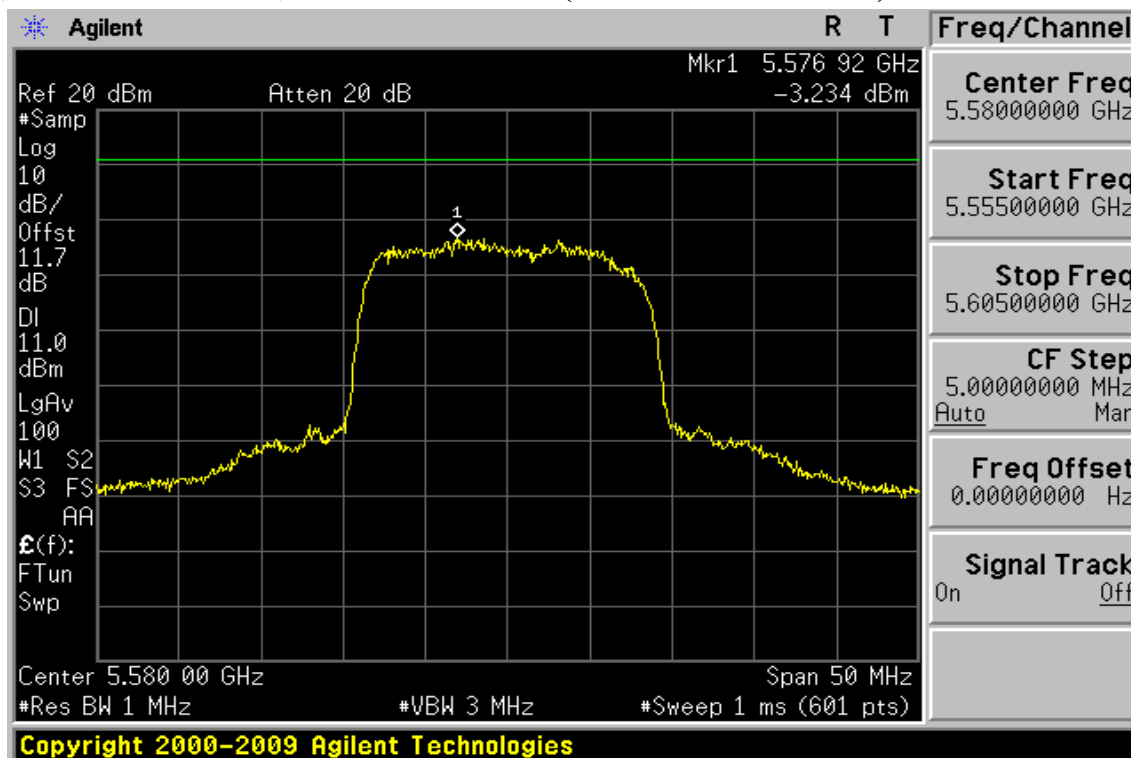


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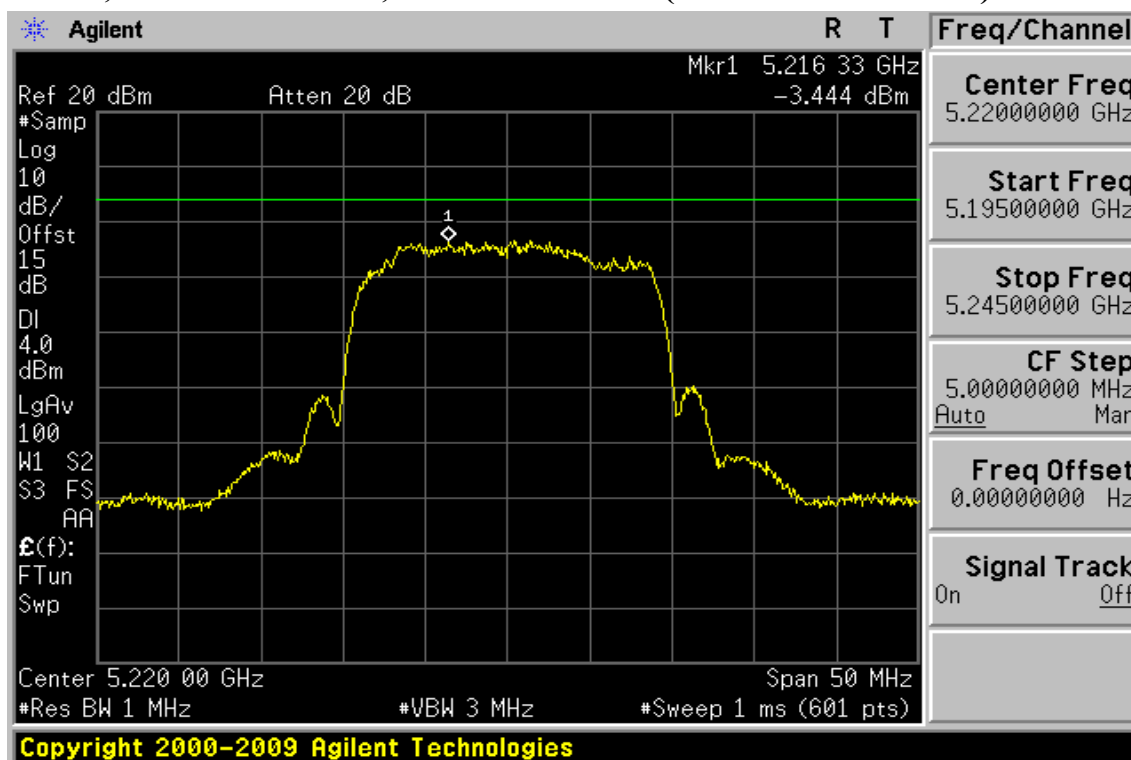
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802.11a, 5470~5725 MHz, PPSD Data Plot (CH Mid 5580 MHz)



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

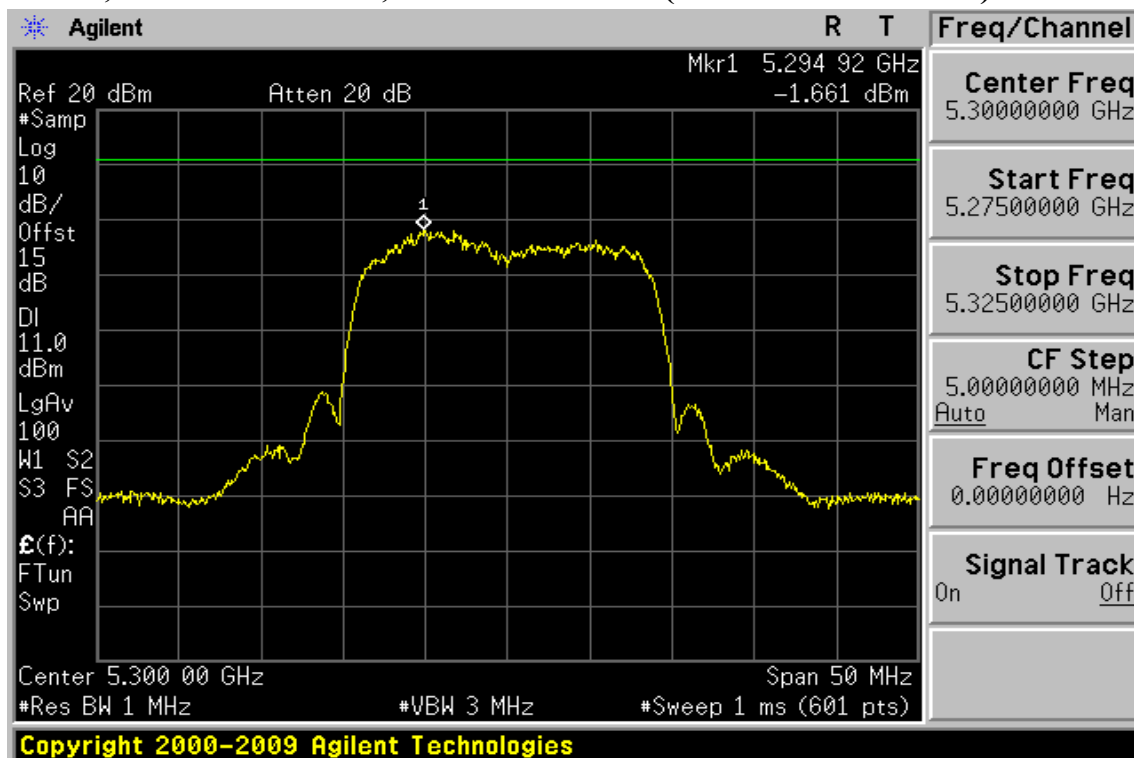


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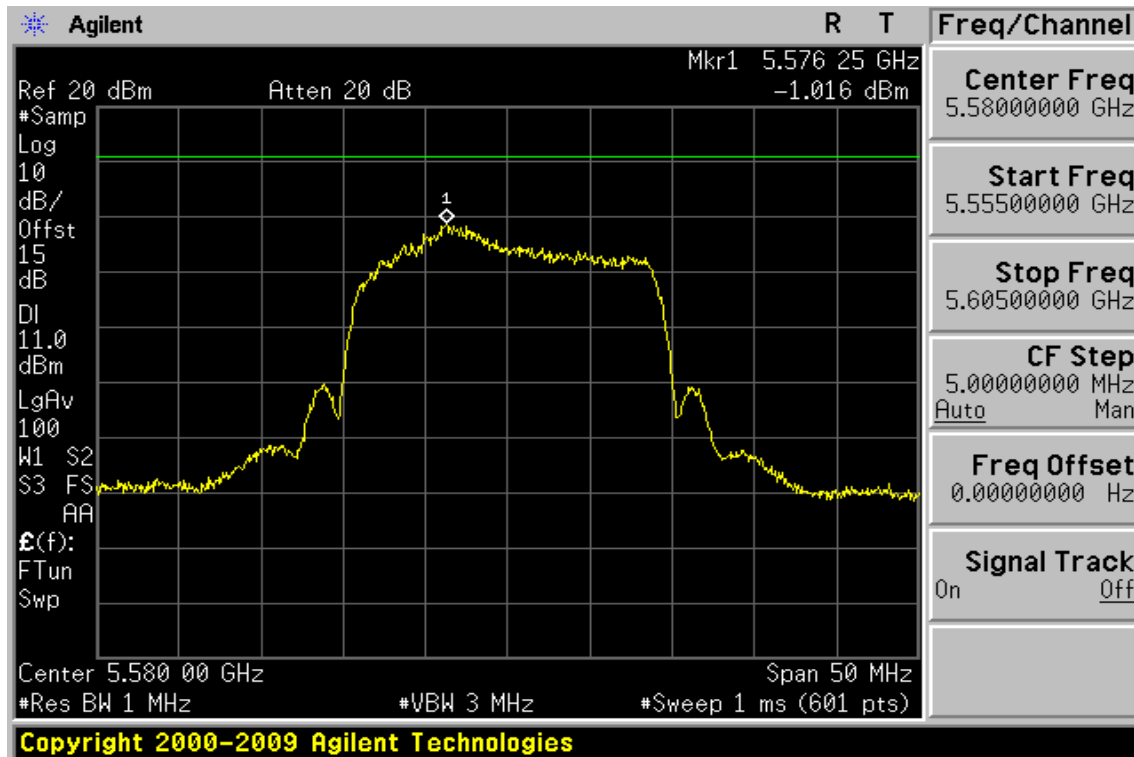
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802.11n HT20, 5250~5350 MHz, PPSD Data Plot (CH Mid 5300 MHz)



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

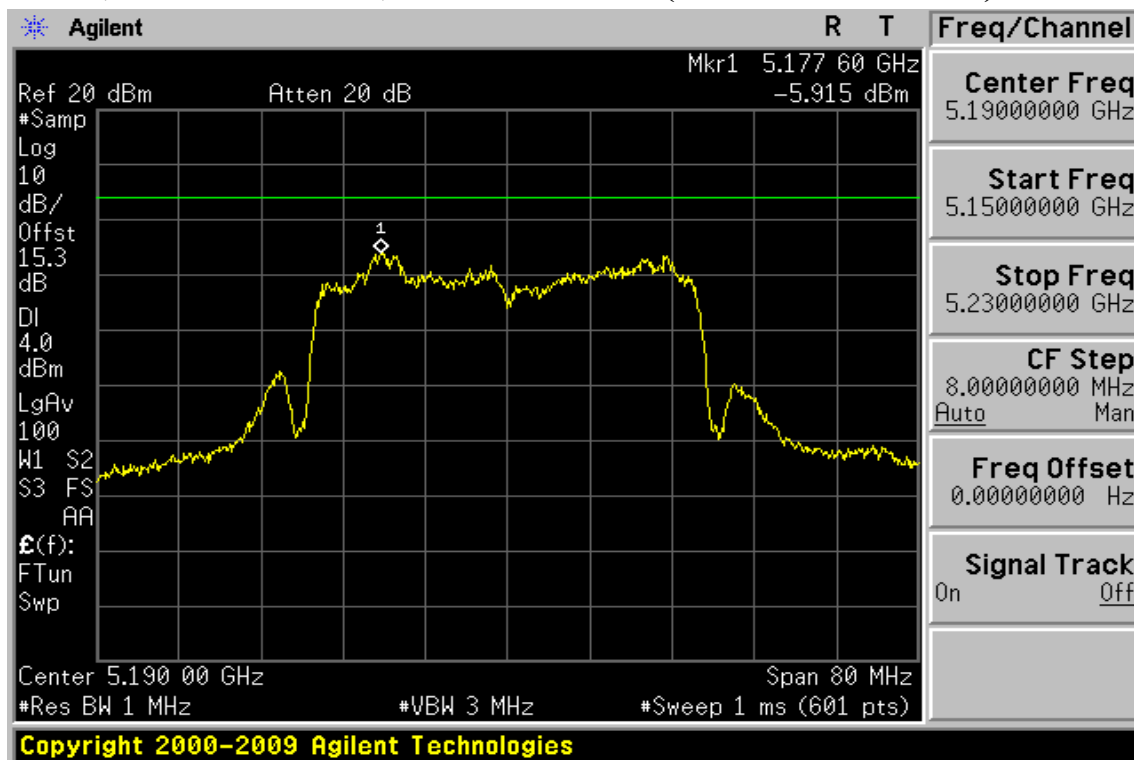


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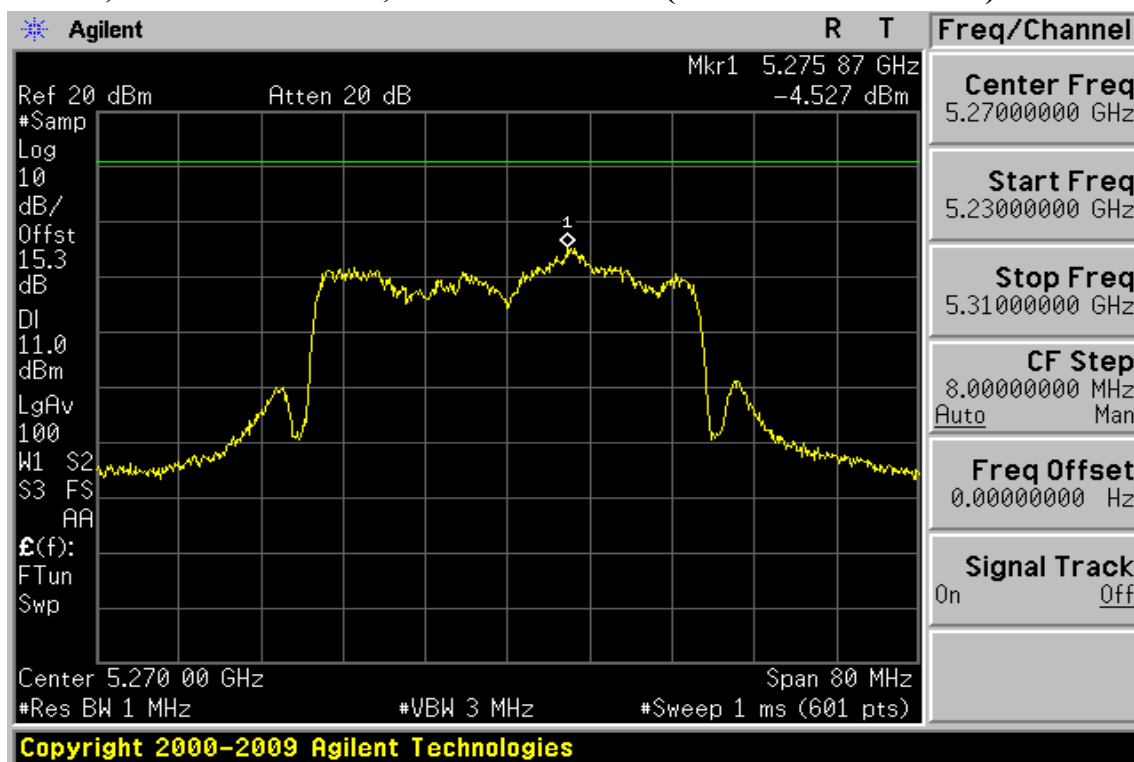
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802.11n HT40, 5150~5250 MHz, PPSD Data Plot (CH Low 5190 MHz)



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

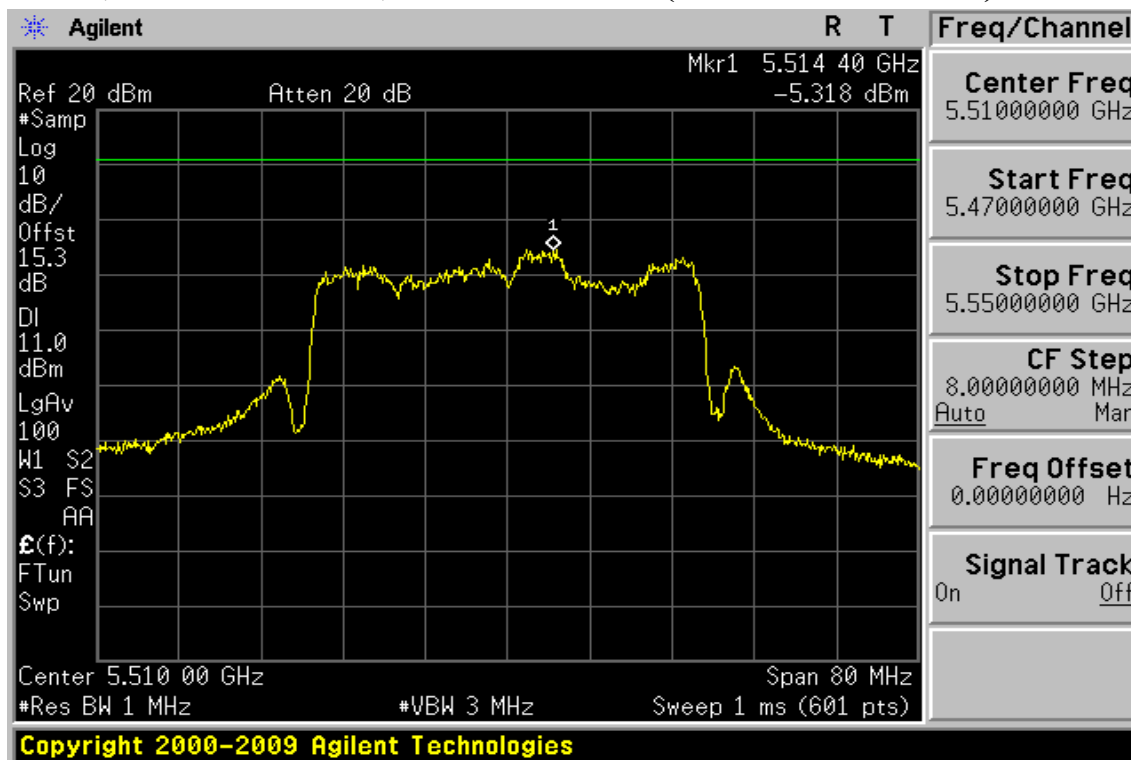


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802.11n HT40, 5470~5725 MHz, PPSD Data Plot (CH Low 5510 MHz)



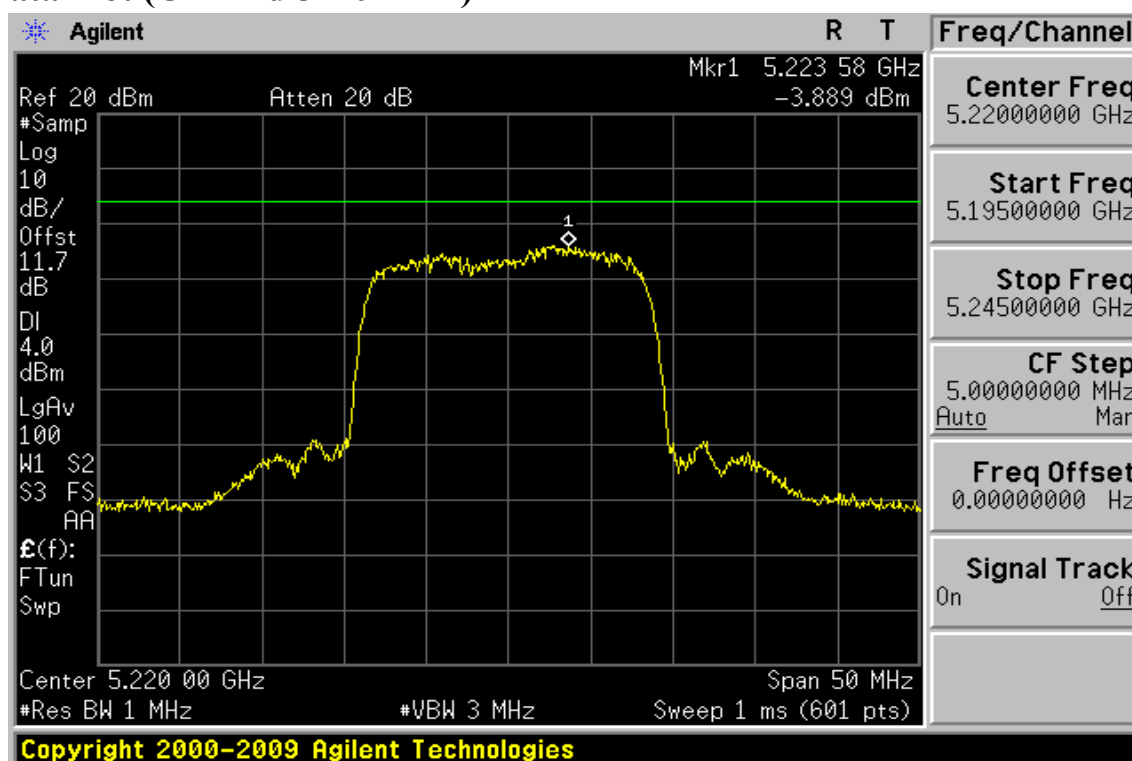
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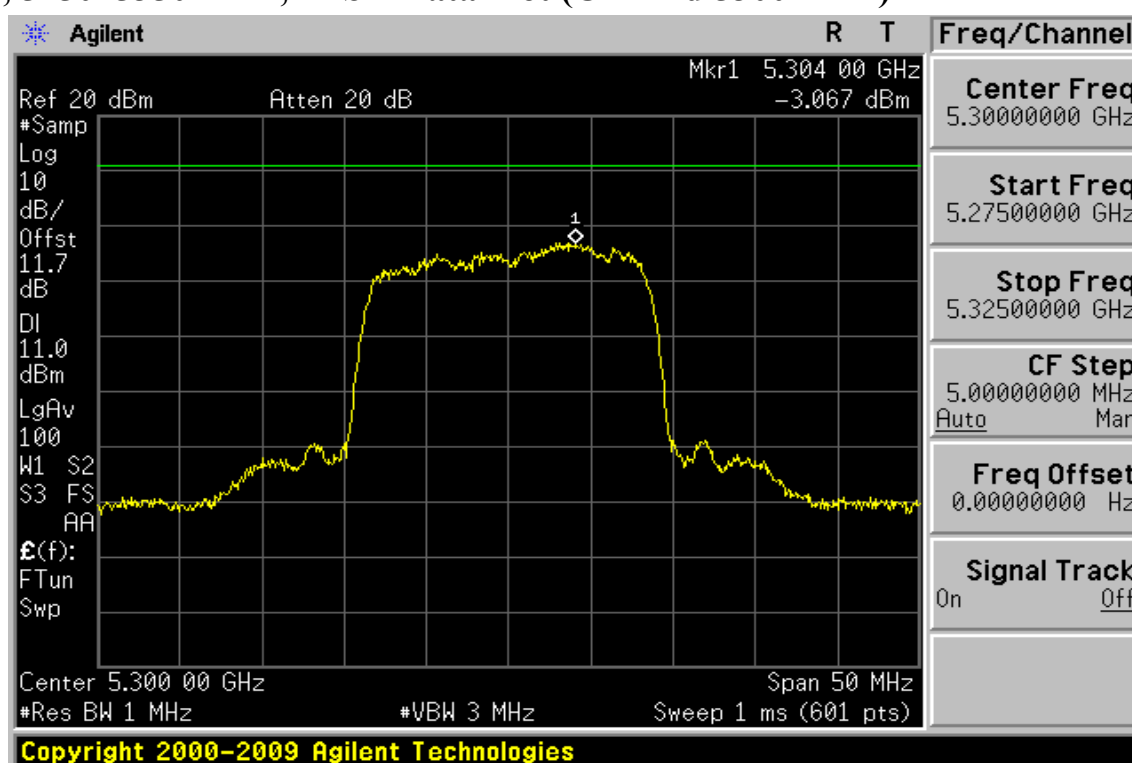
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Modulation Type: QPSK, Coding Rate: 1/2

PPSD Data Plot (CH Mid 5220 MHz)



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

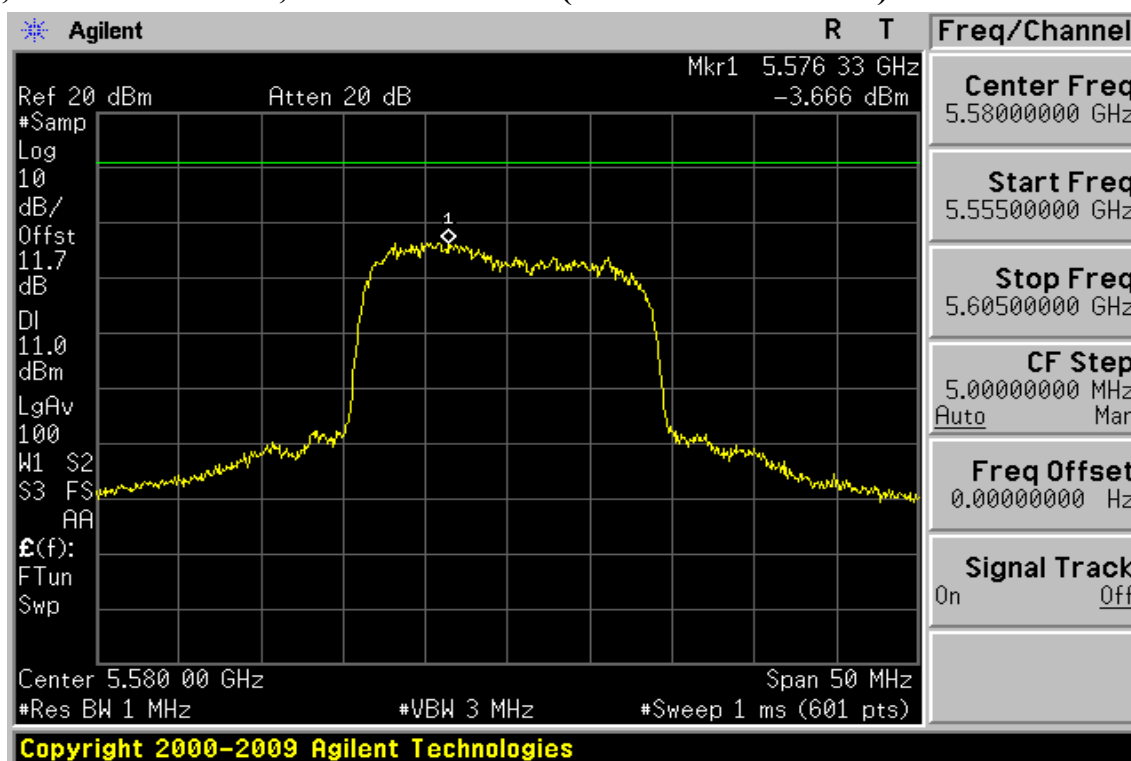


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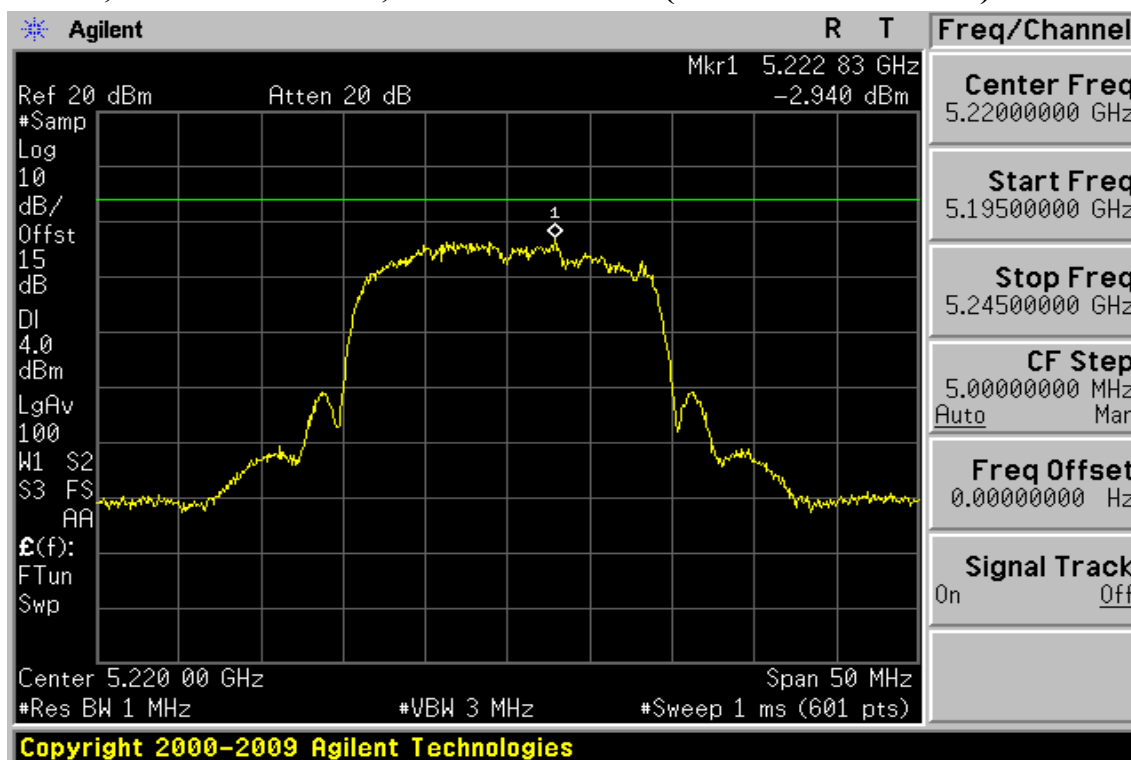
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802.11a, 5470~5725 MHz, PPSD Data Plot (CH Mid 5580 MHz)



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

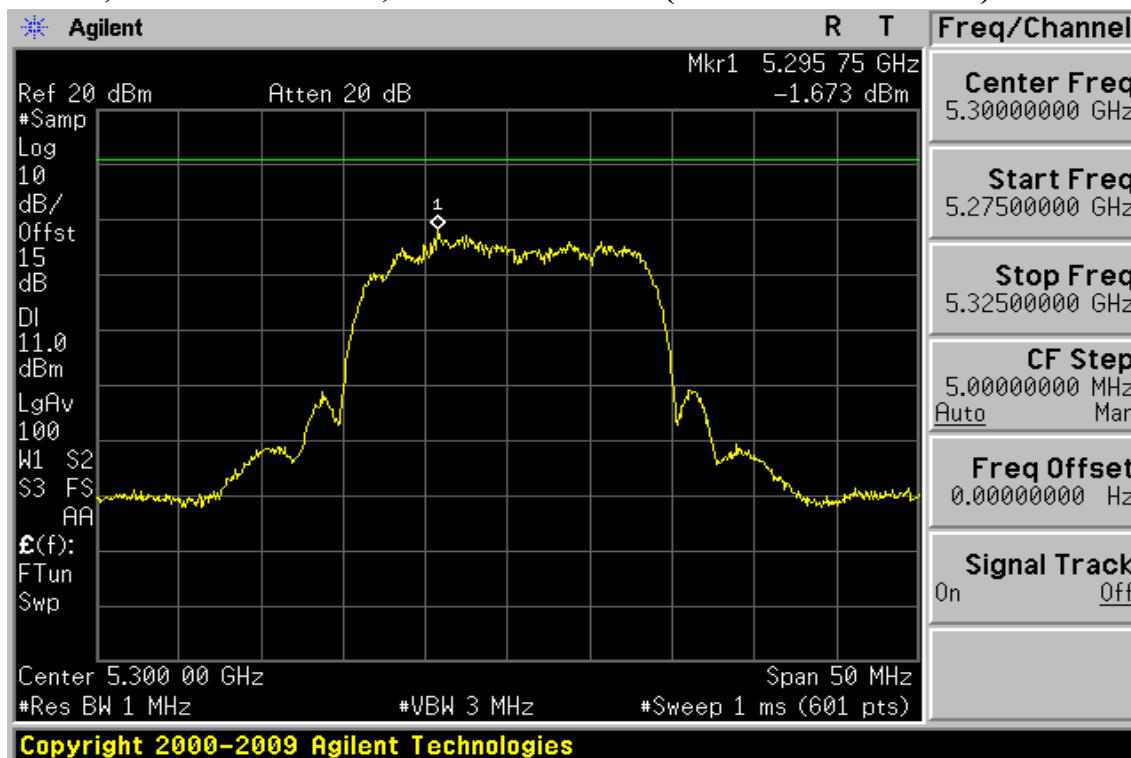


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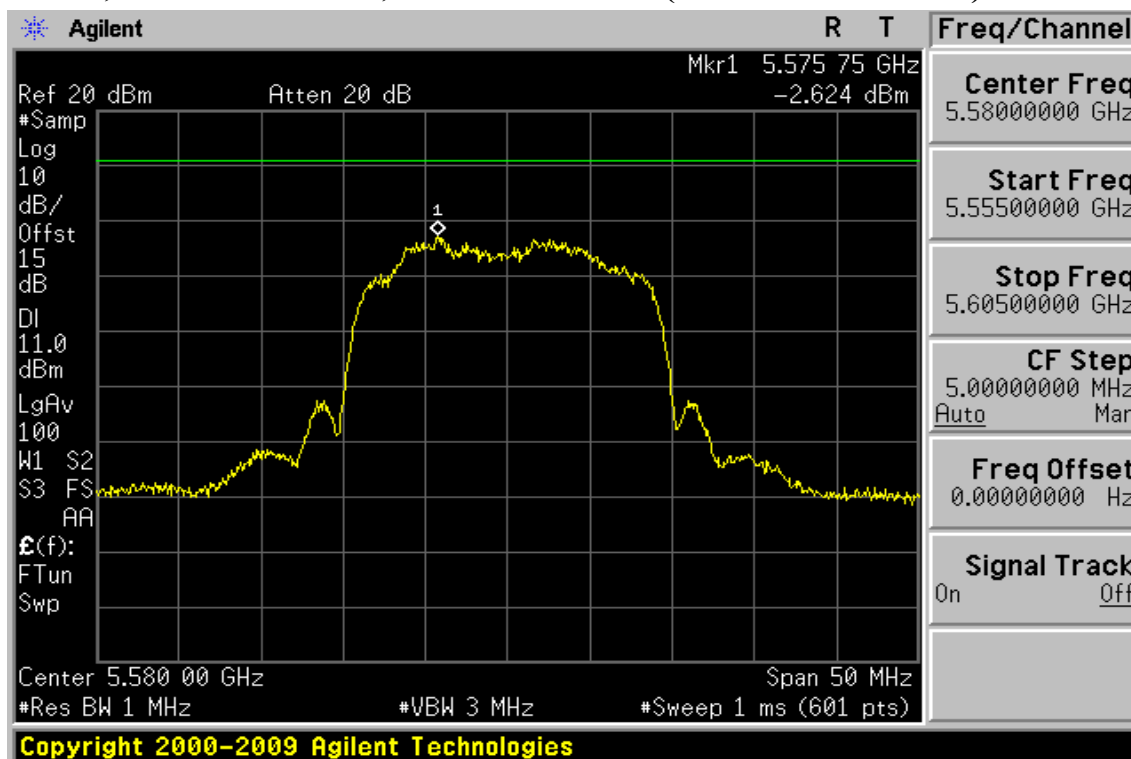
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802.11n HT20, 5250~5350 MHz, PPSD Data Plot (CH Mid 5300 MHz)



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

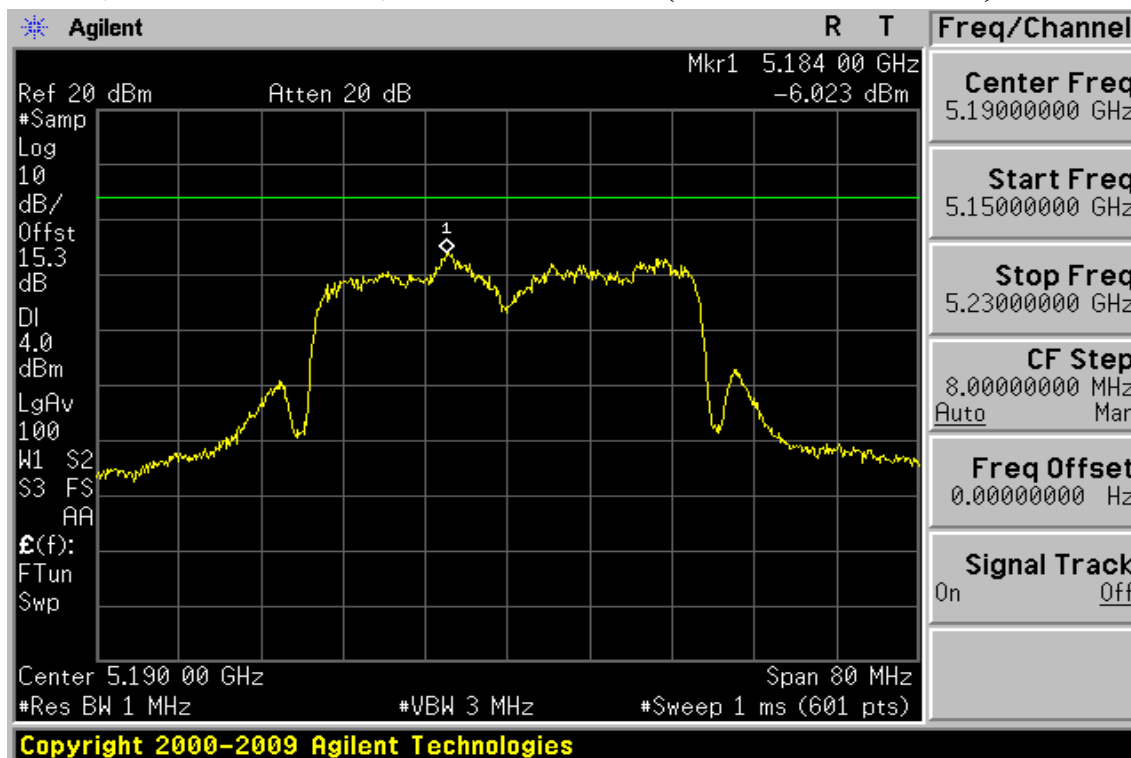


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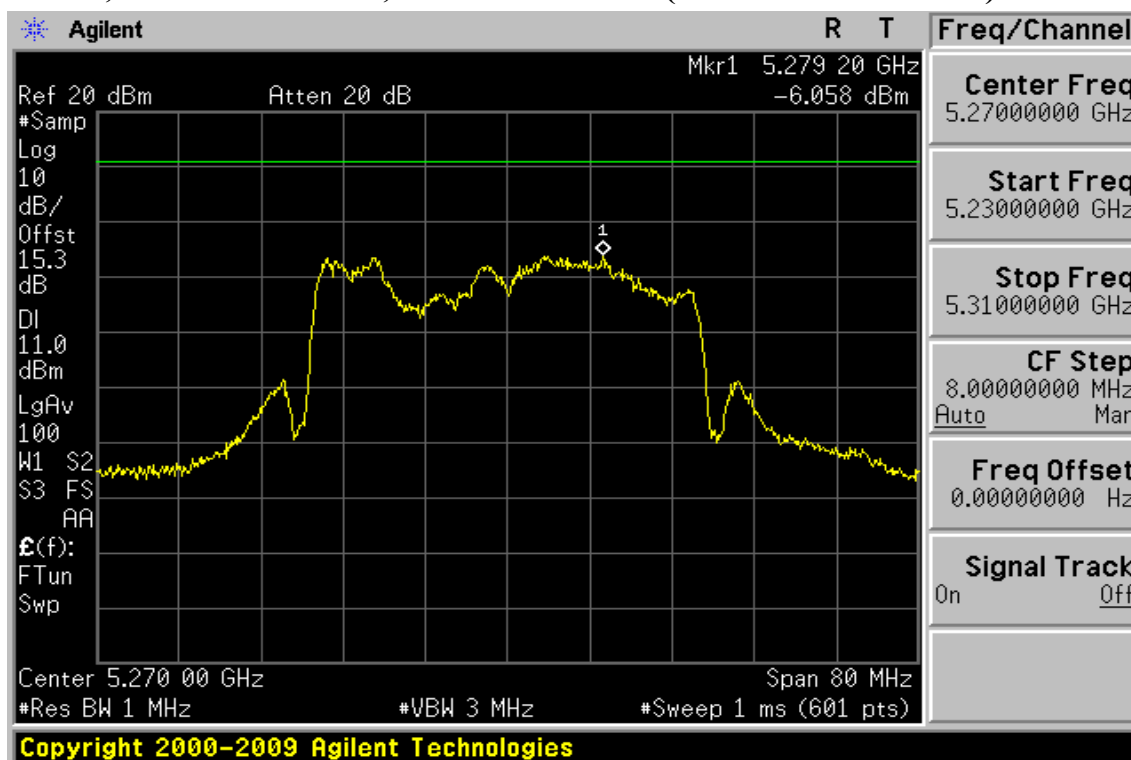
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802.11n HT40, 5150~5250 MHz, PPSD Data Plot (CH Low 5190 MHz)



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

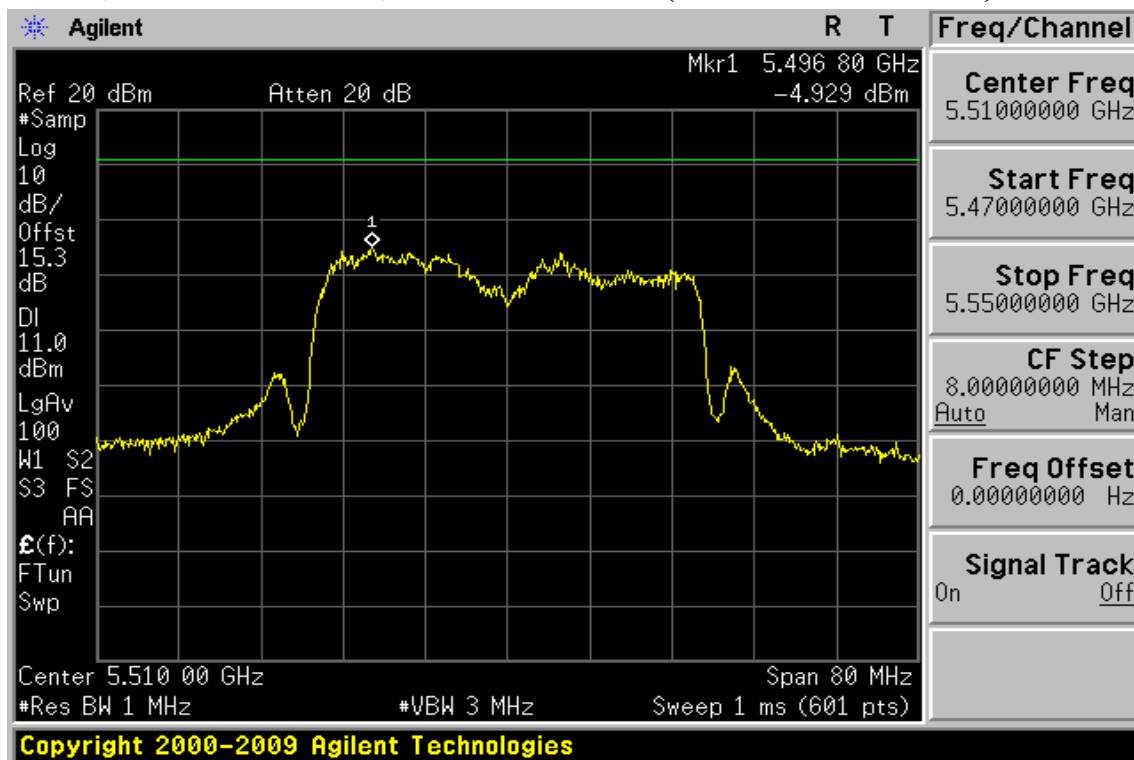


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802.11n HT40, 5470~5725 MHz, PPSD Data Plot (CH Low 5510 MHz)



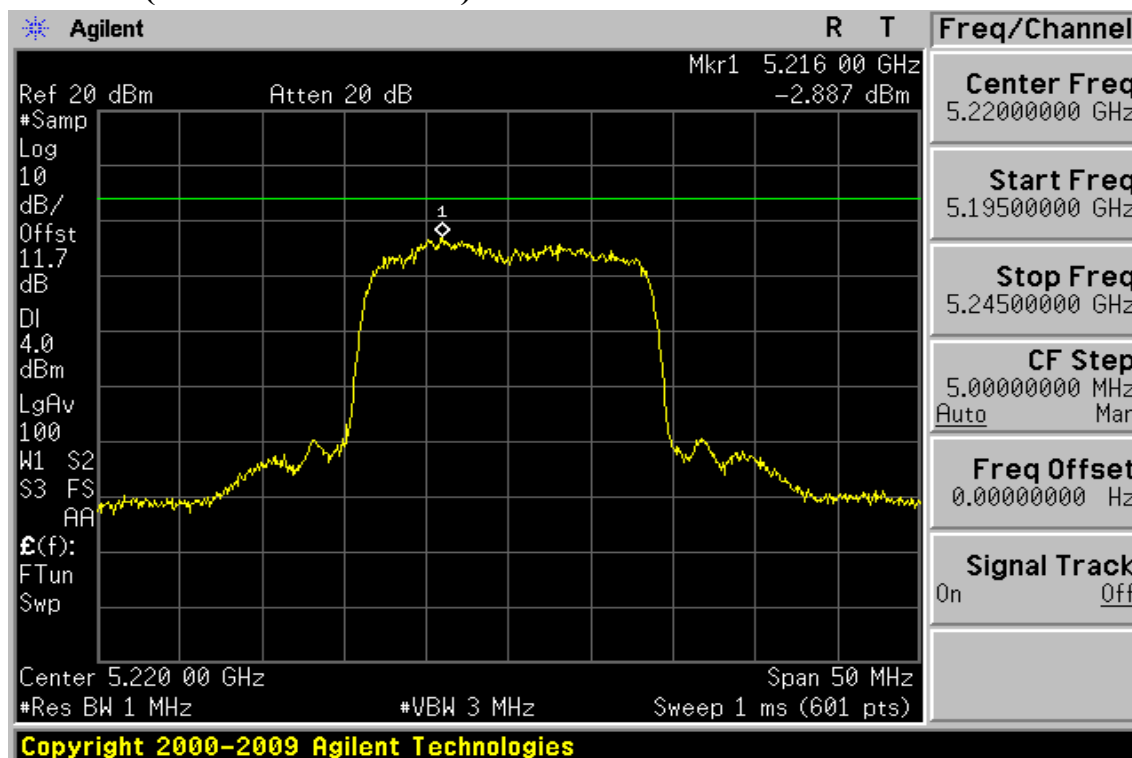
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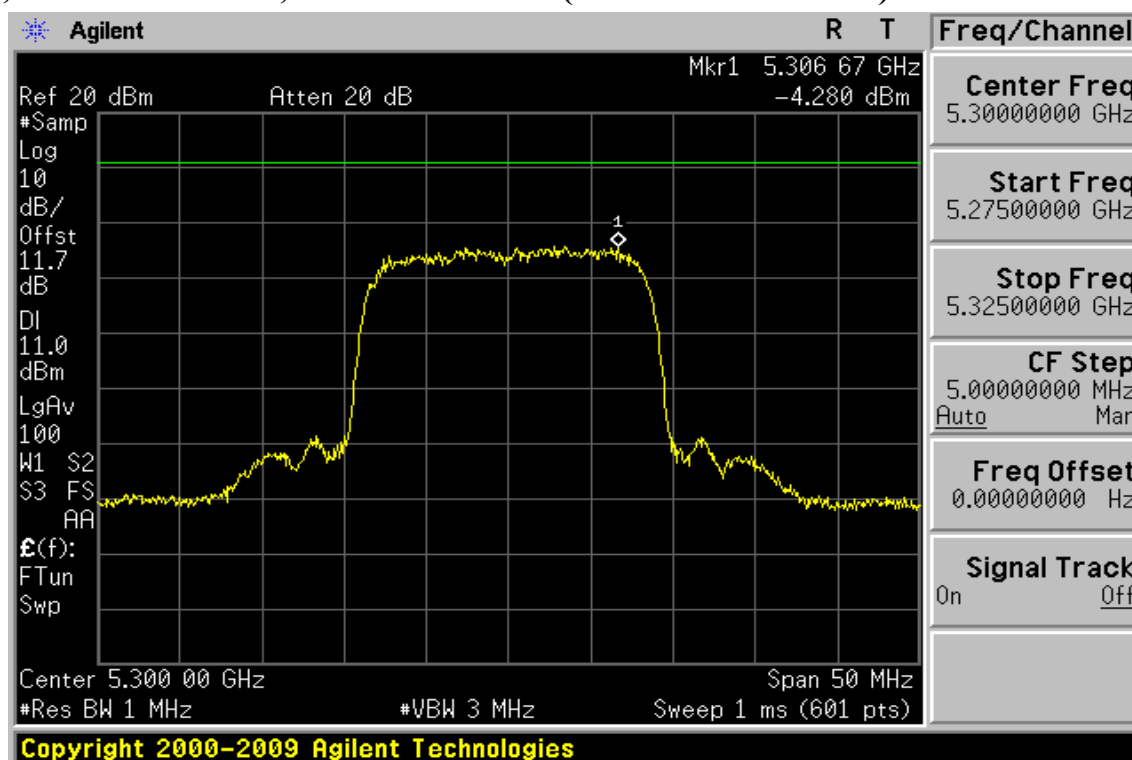
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Modulation Type: 16-QAM, Coding Rate: 1/2

PPSD Data Plot (CH Mid 5220 MHz)



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

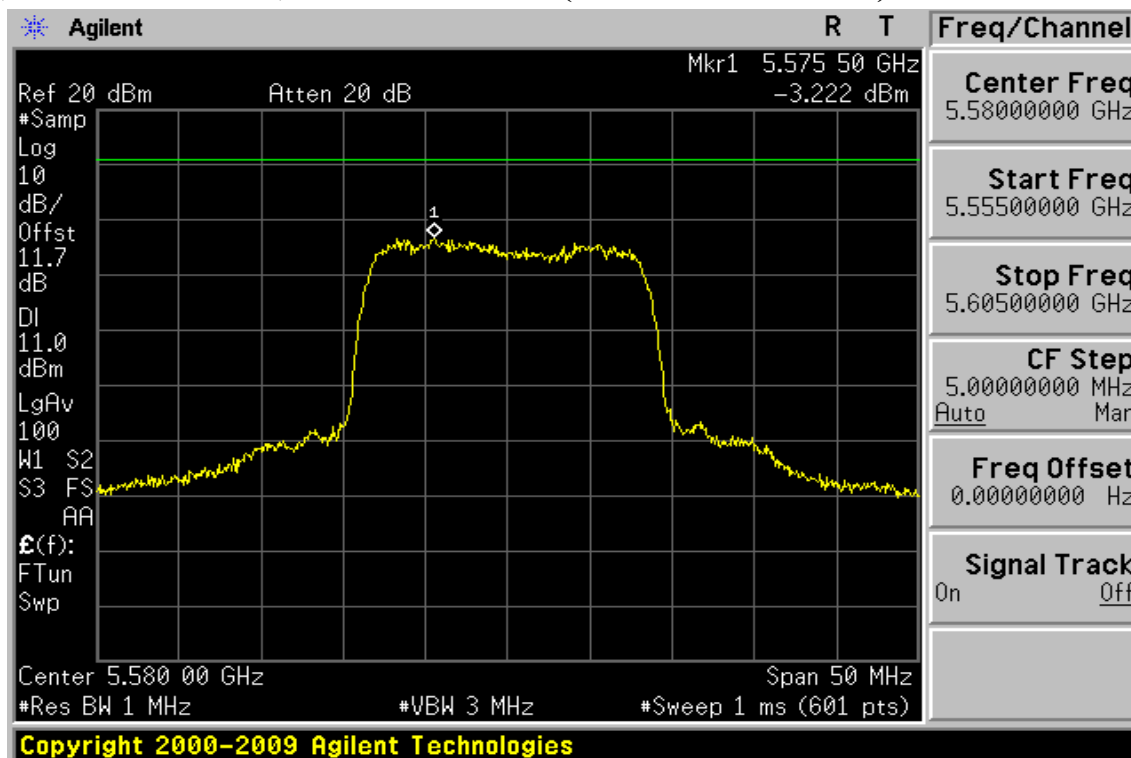


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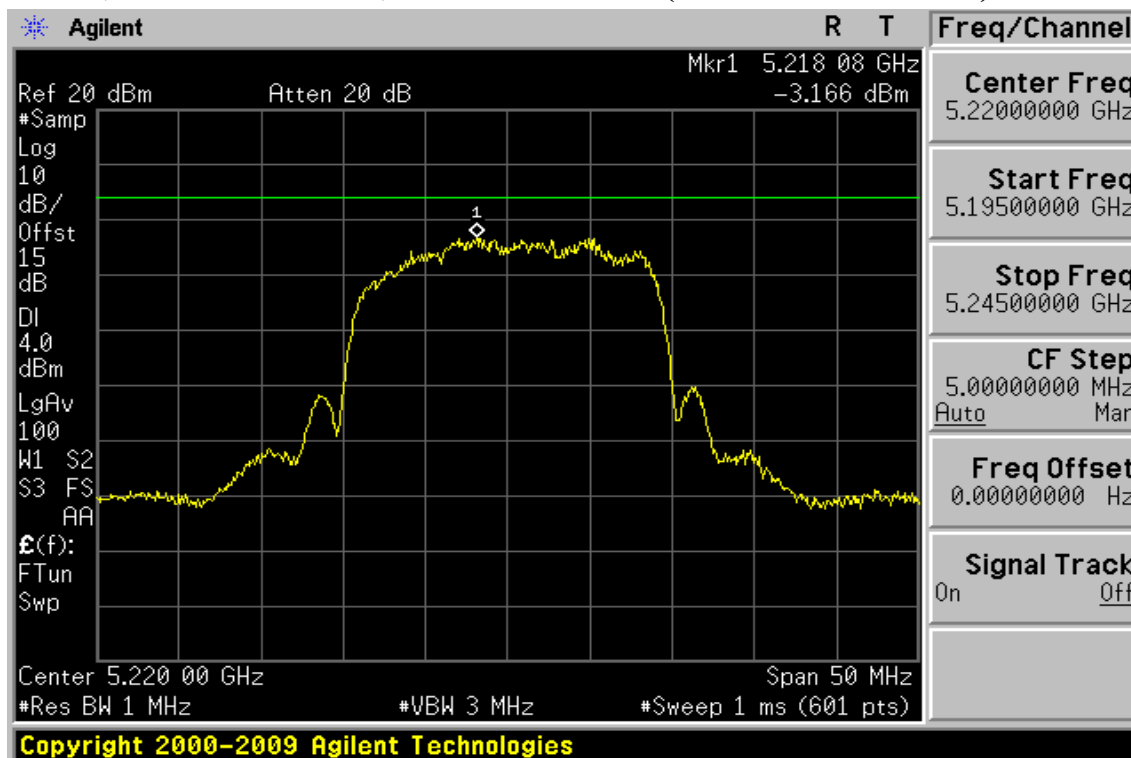
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802.11a, 5470~5725 MHz, PPSD Data Plot (CH Mid 5580 MHz)



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

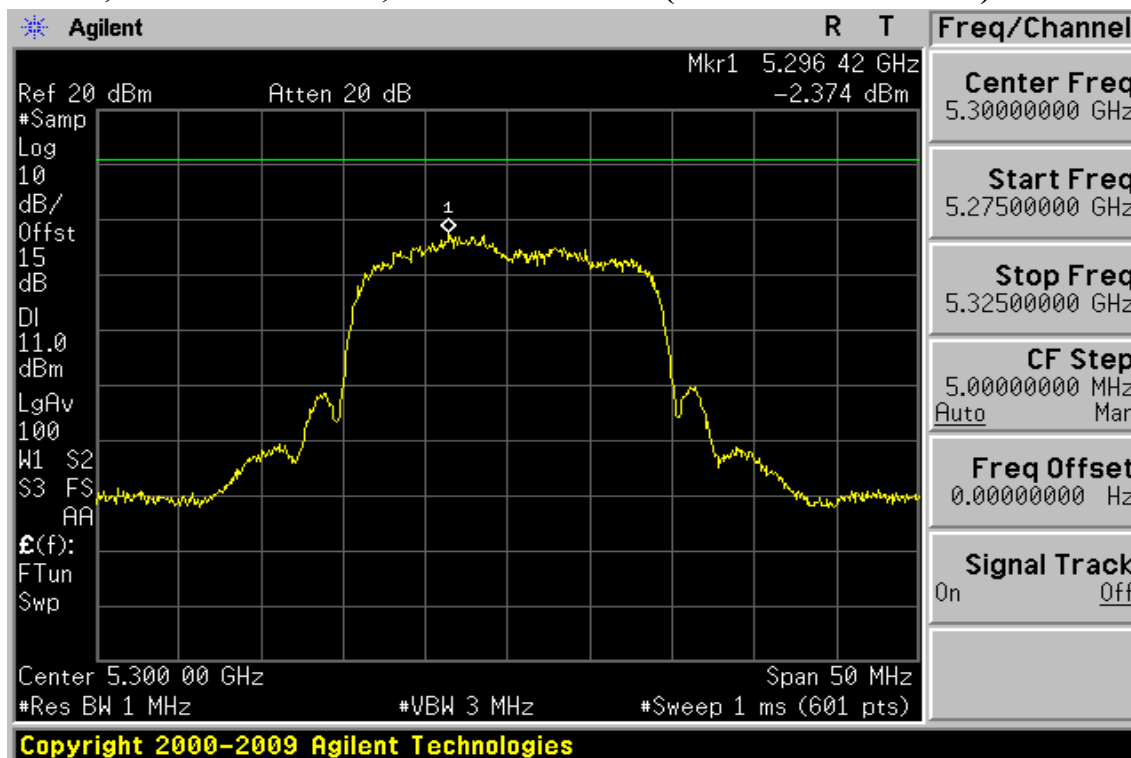


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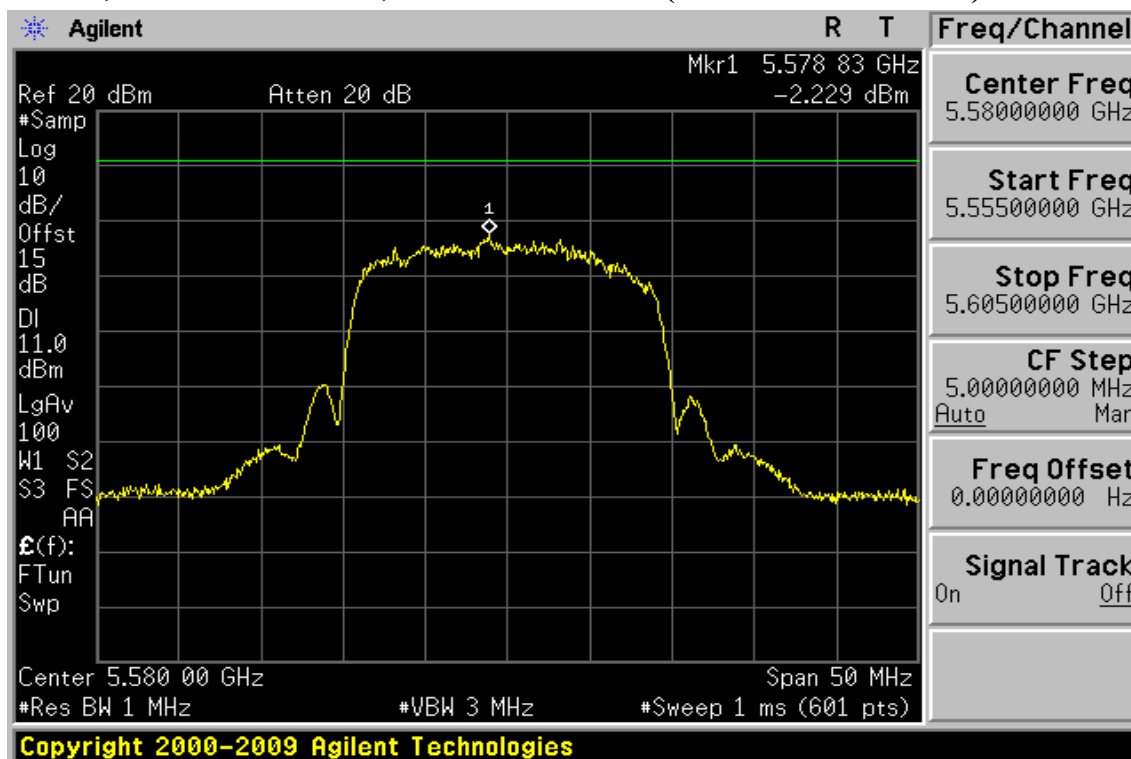
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802.11n HT20, 5250~5350 MHz, PPSD Data Plot (CH Mid 5300 MHz)



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

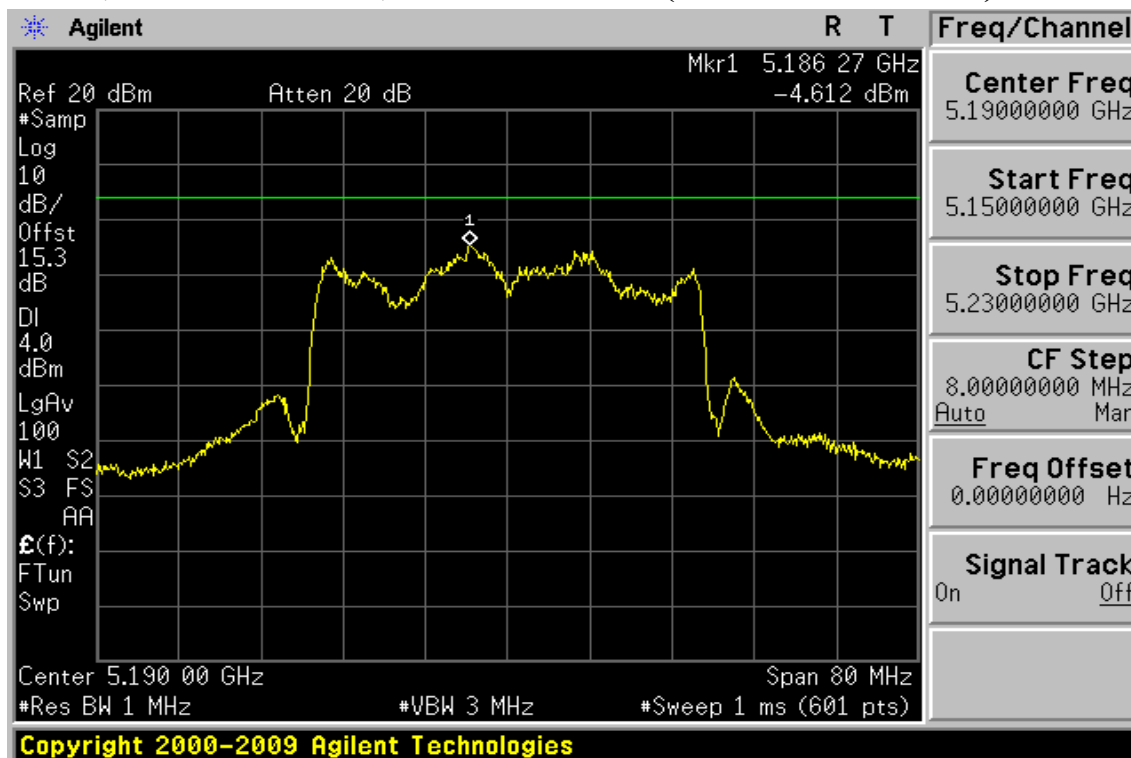


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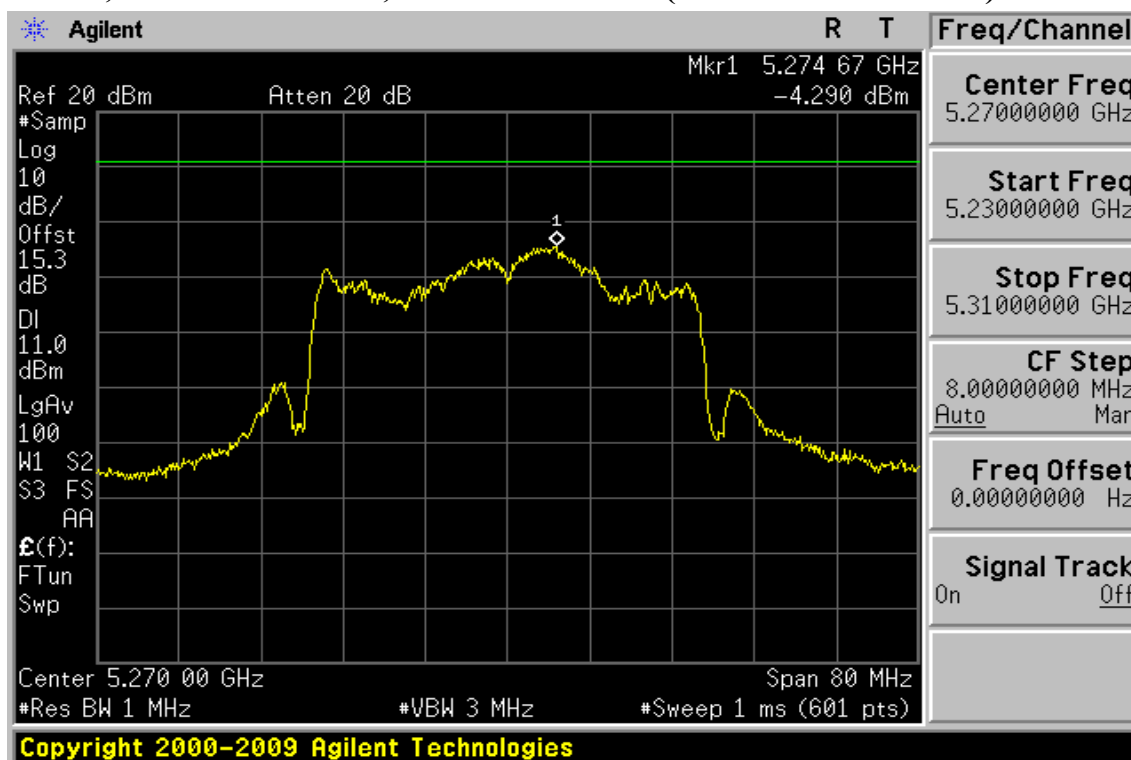
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802.11n HT40, 5150~5250 MHz, PPSD Data Plot (CH Low 5190 MHz)



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

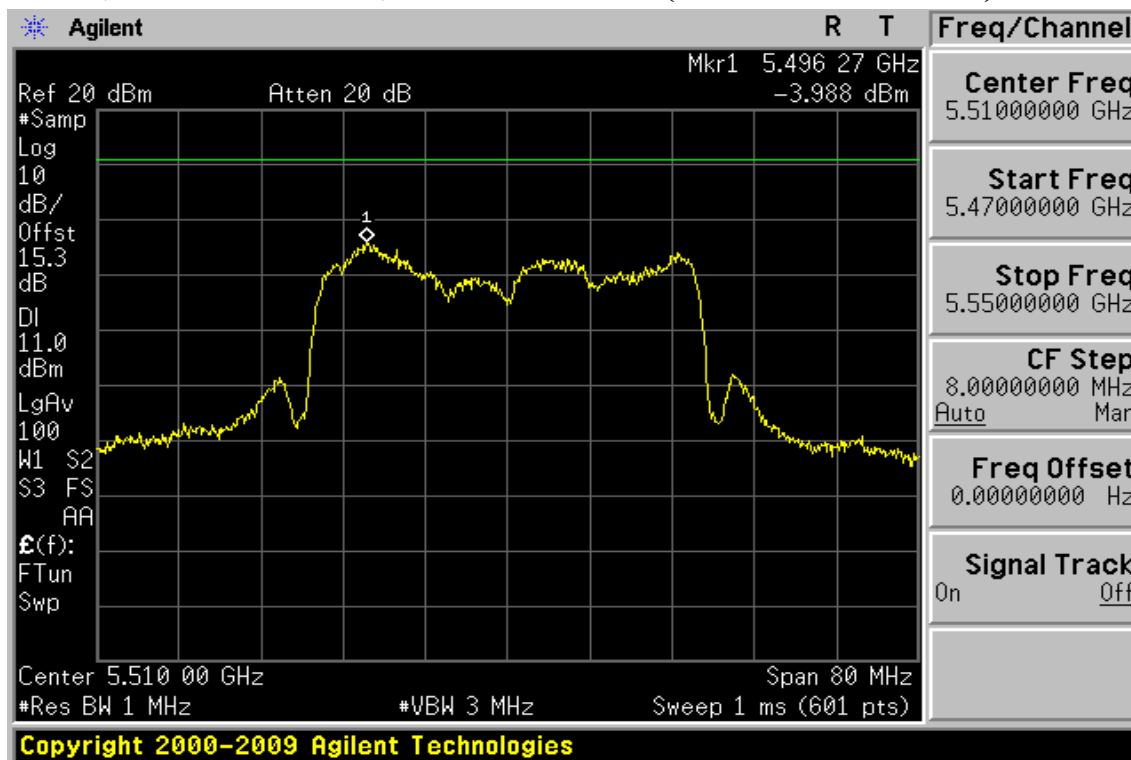


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802.11n HT40, 5470~5725 MHz, PPSD Data Plot (CH Low 5510 MHz)

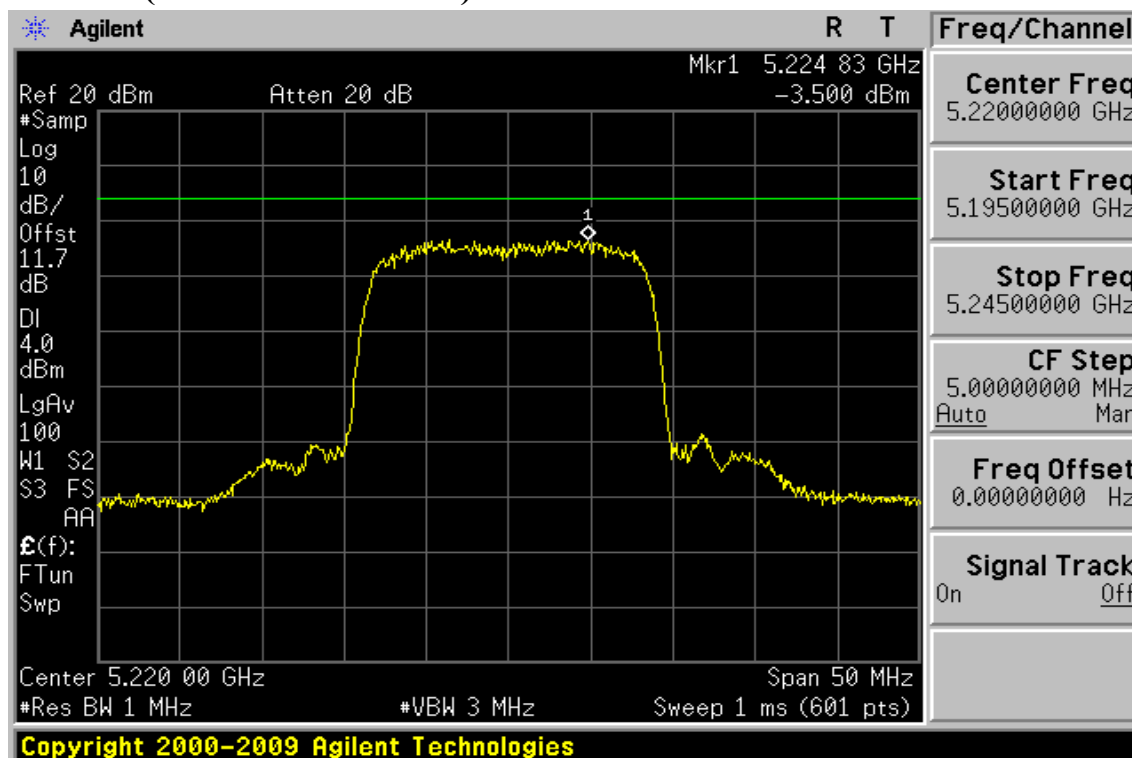


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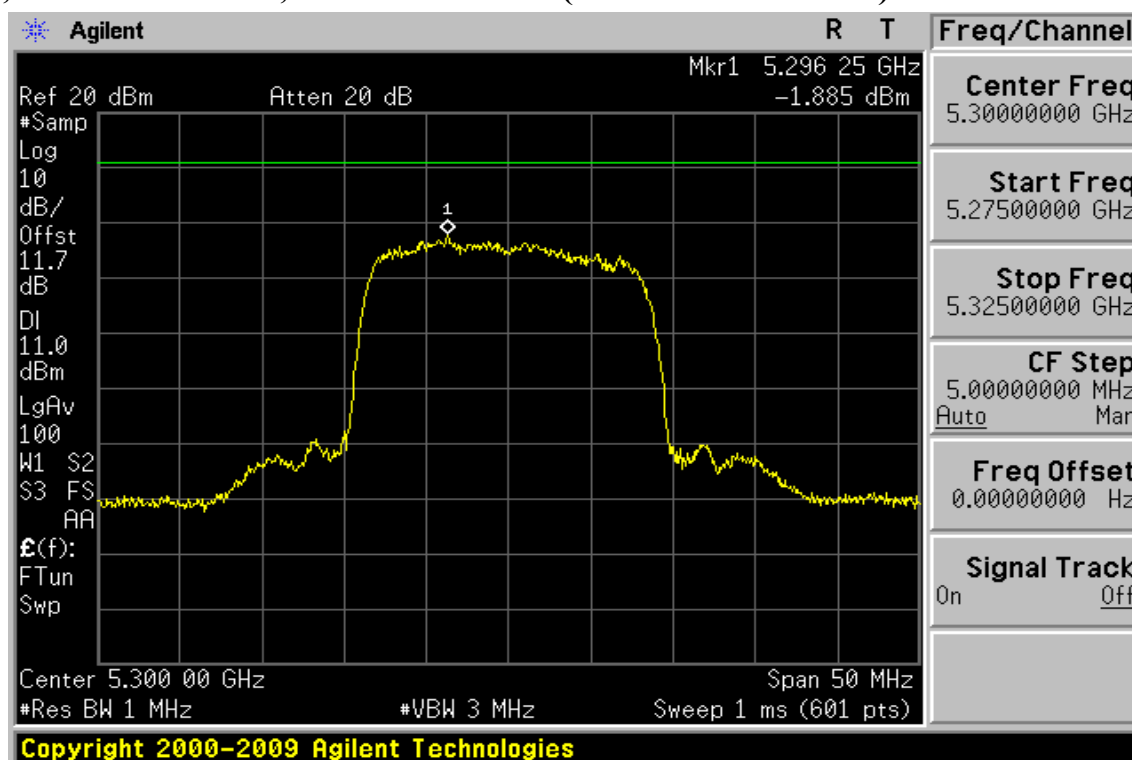
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Modulation Type: 64-QAM, Coding Rate: 2/3

PPSD Data Plot (CH Mid 5220 MHz)



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

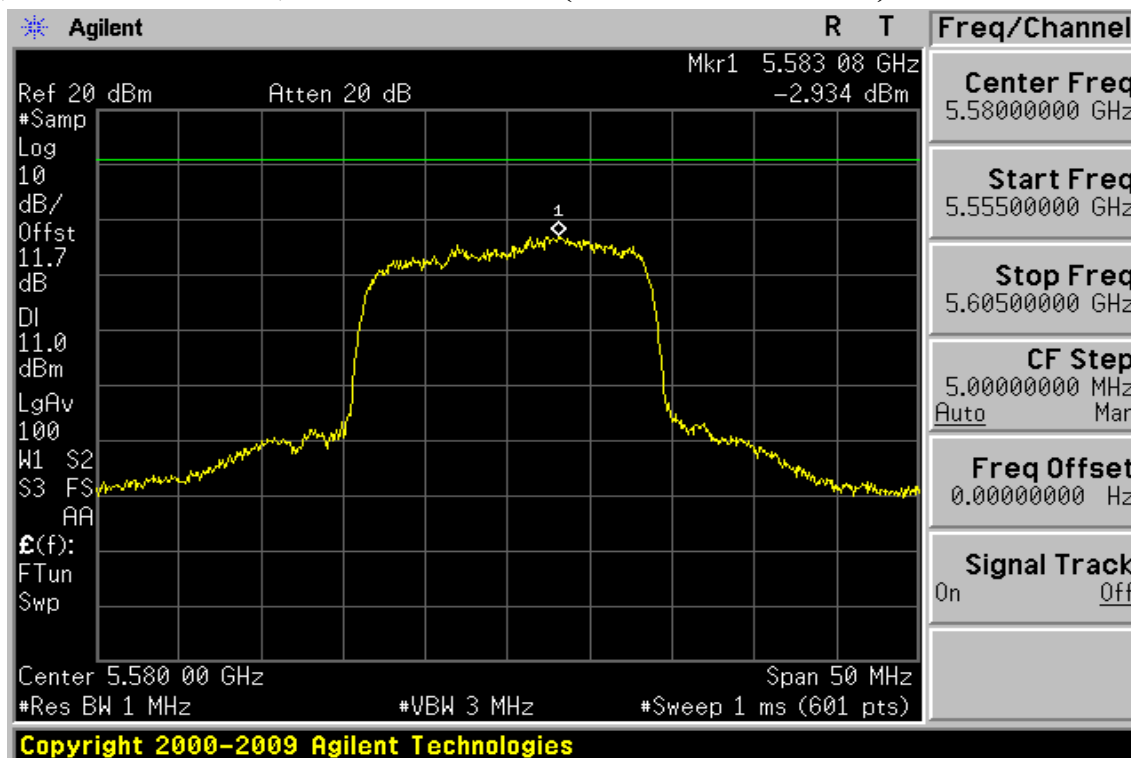


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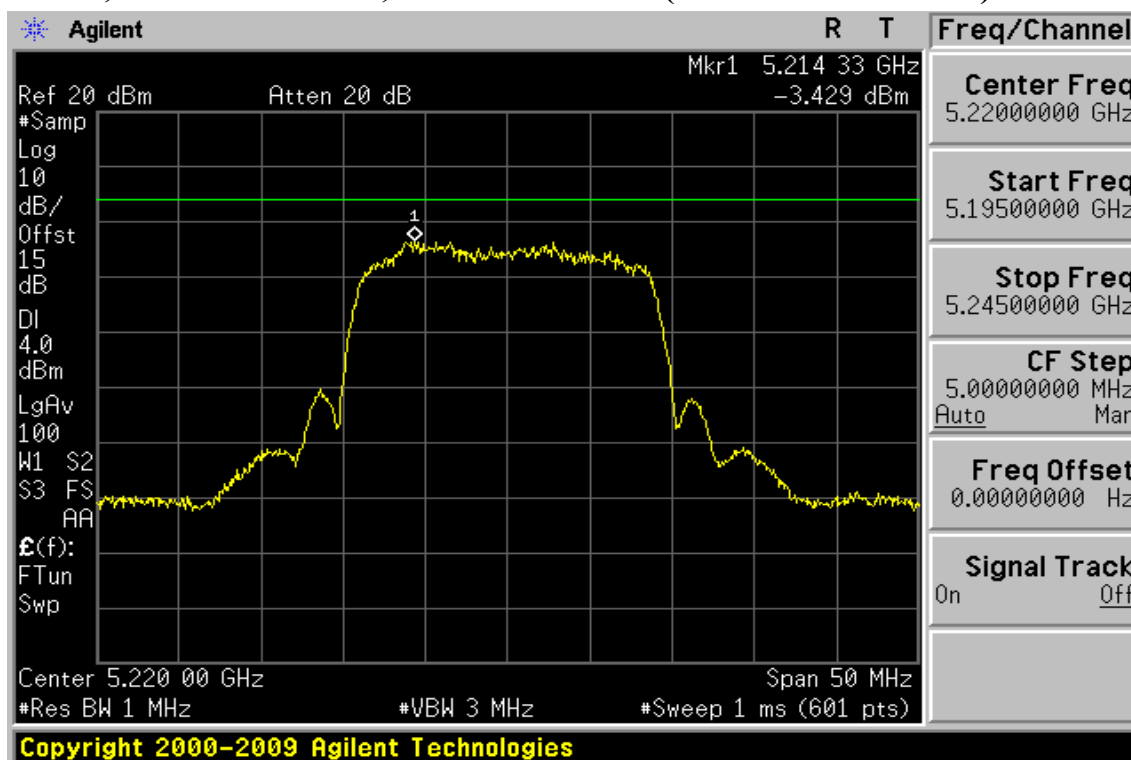
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802.11a, 5470~5725 MHz, PPSD Data Plot (CH Mid 5580 MHz)



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

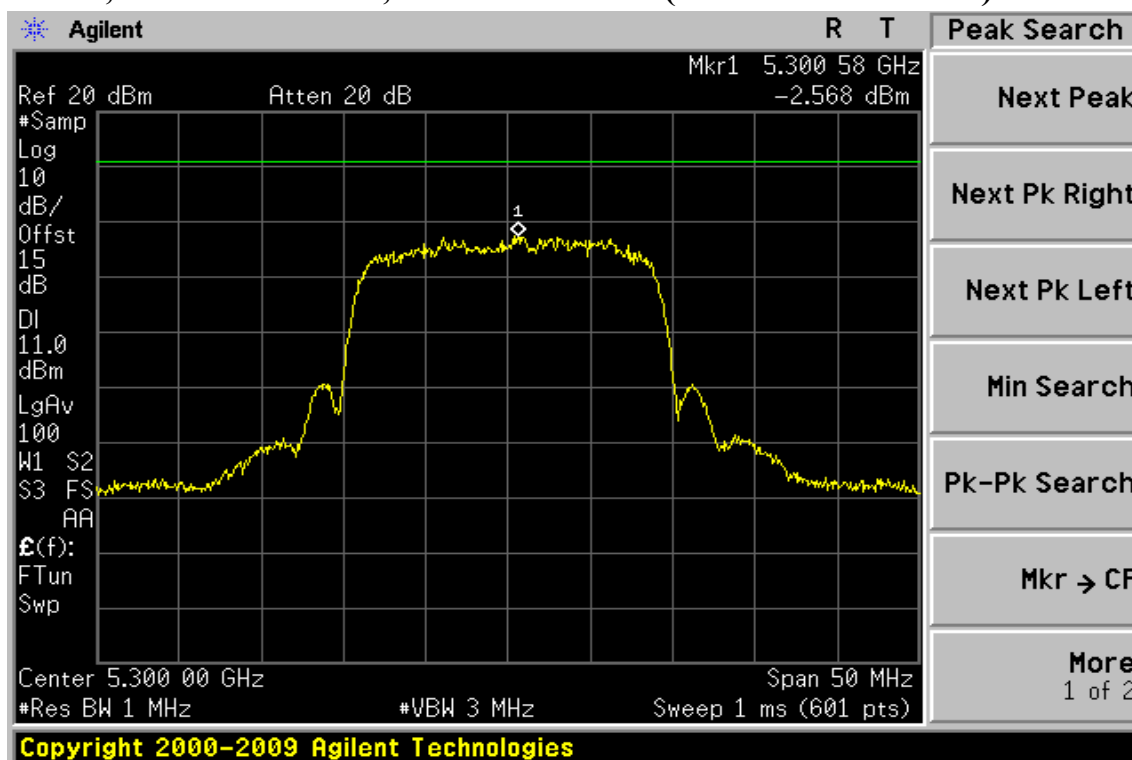


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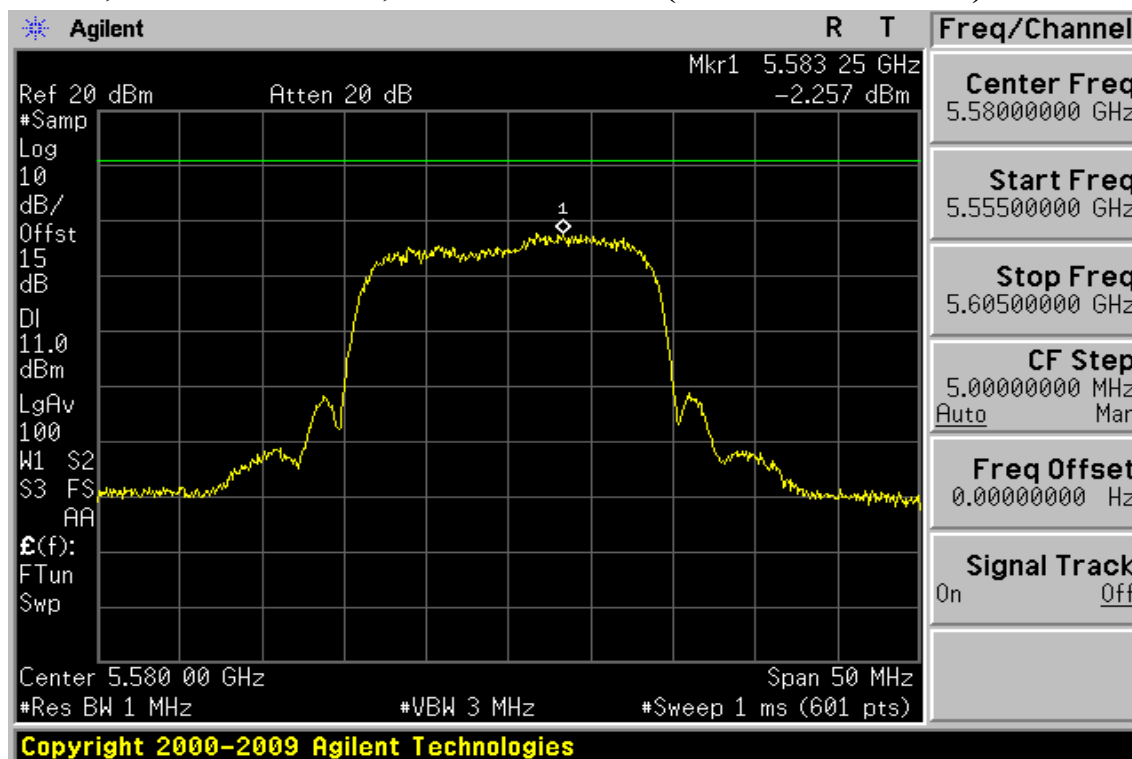
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802.11n HT20, 5250~5350 MHz, PPSD Data Plot (CH Mid 5300 MHz)



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

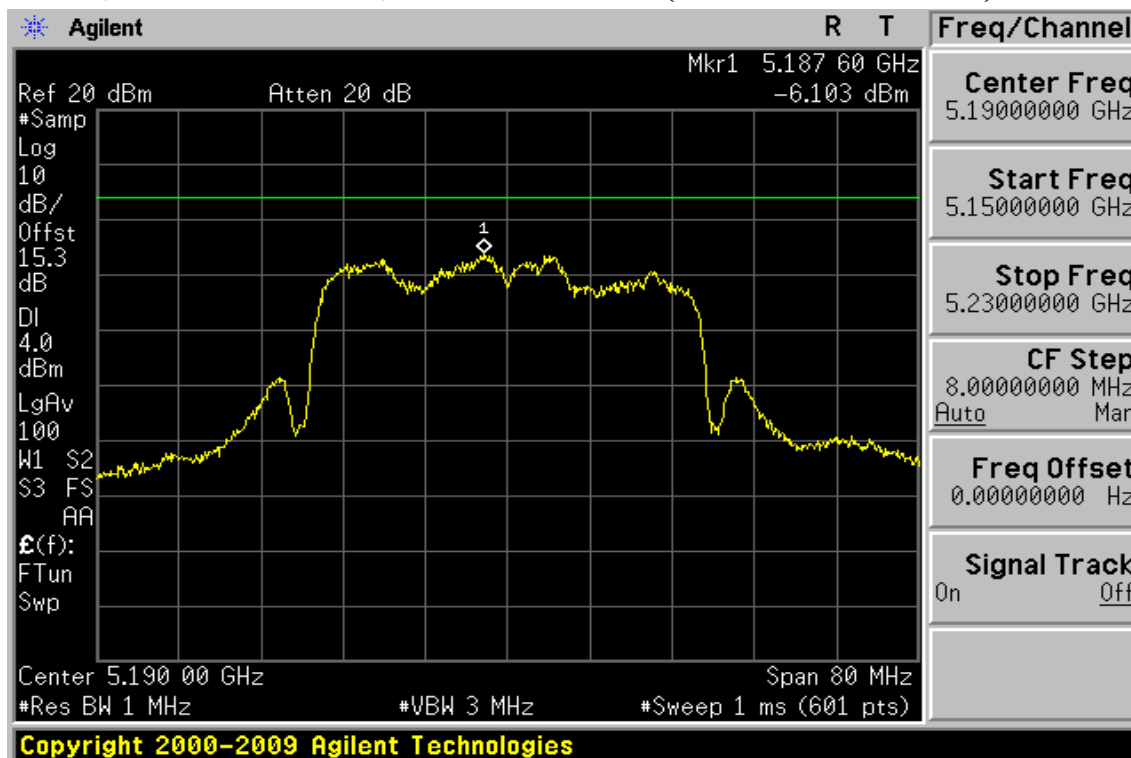


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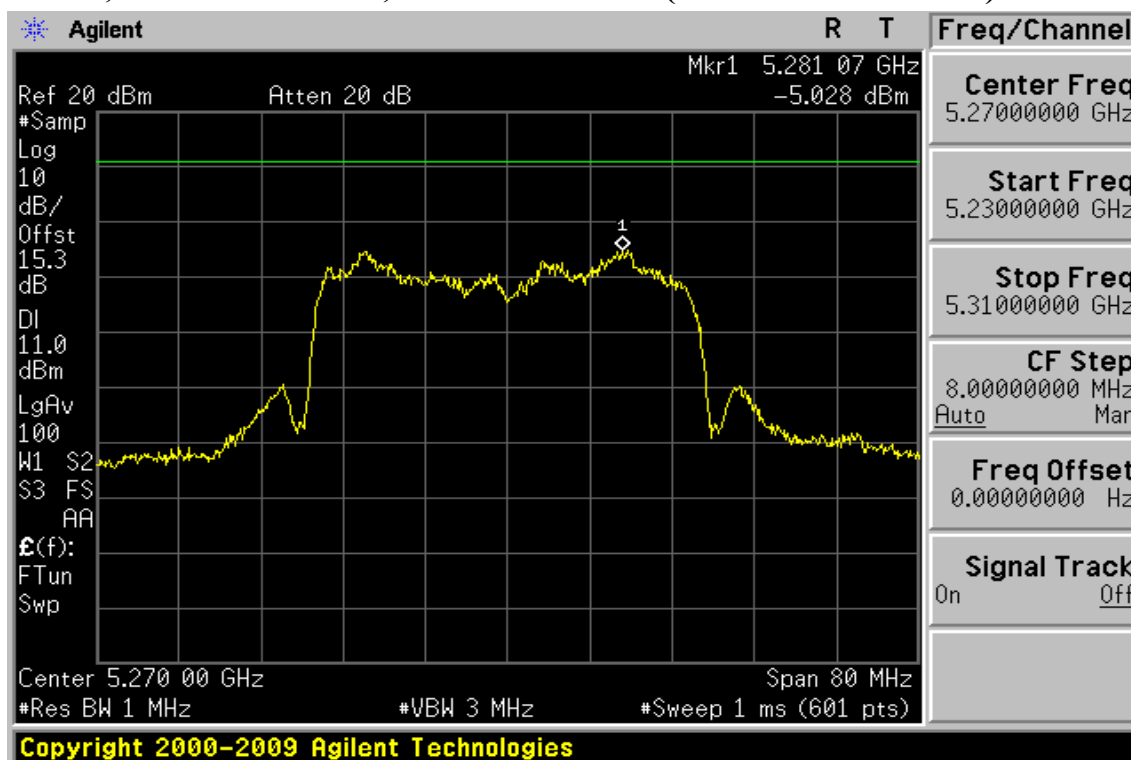
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802.11n HT40, 5150~5250 MHz, PPSD Data Plot (CH Low 5190 MHz)



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

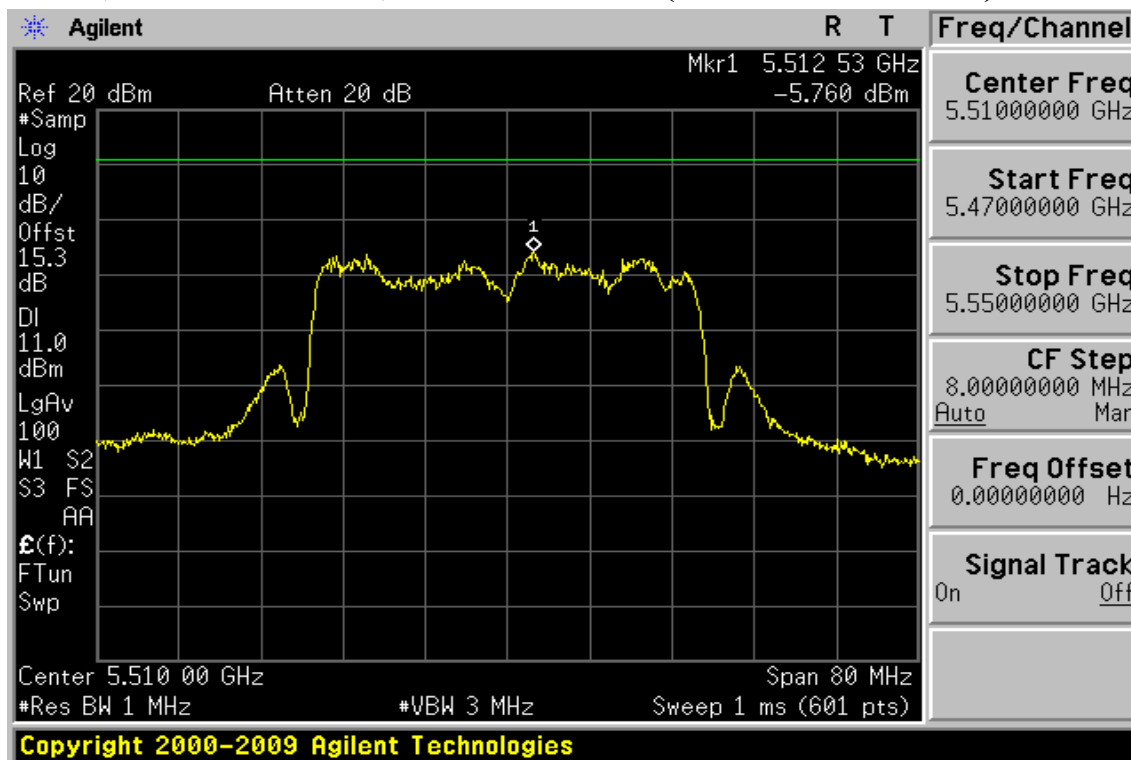


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802.11n HT40, 5470~5725 MHz, PPSD Data Plot (CH Low 5510 MHz)



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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.

Remark: as per KDB 662291, MIMO mode is accomplished by the addition of $10 \log(N)$, where $N = 2$ as the simultaneous emission of spurious emission, and bandedge for conducted compliance test items.

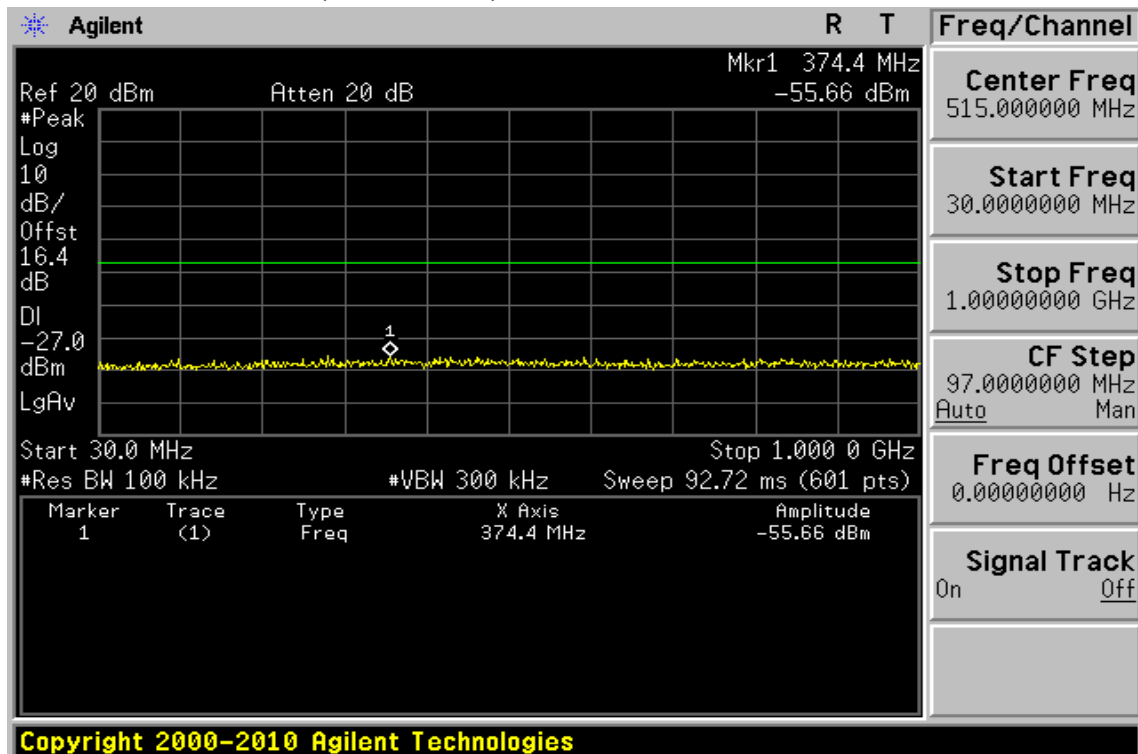
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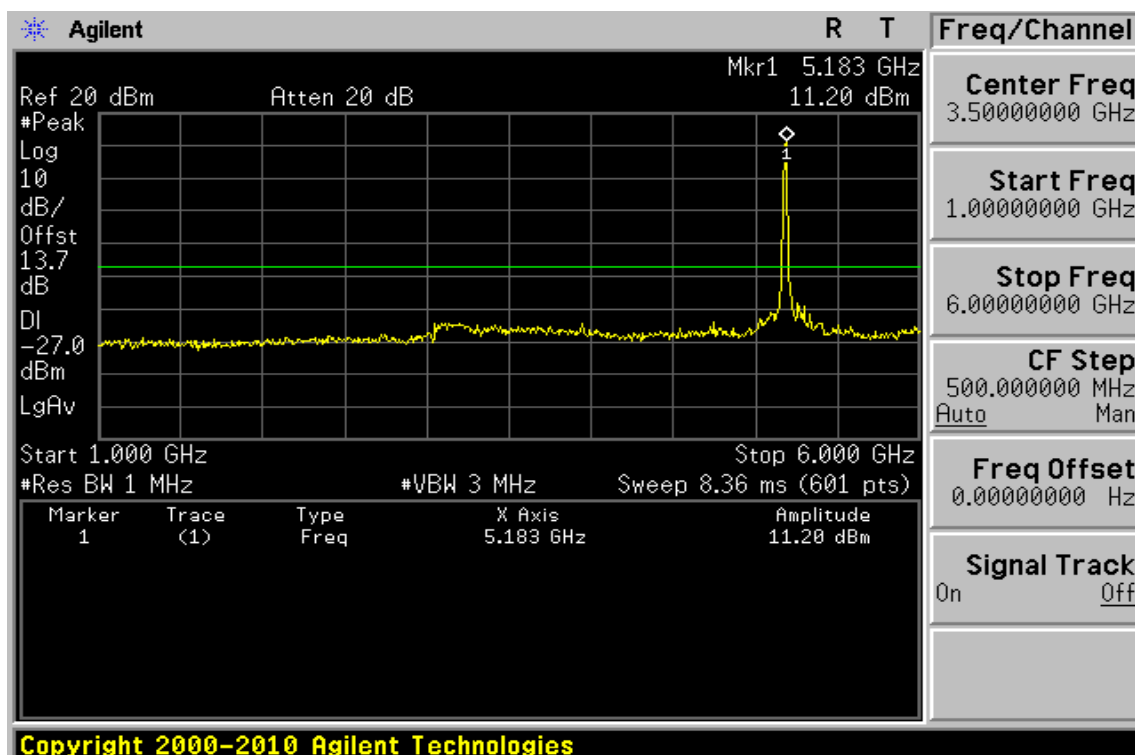
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802.11a, 5150~5250 MHz

Ch Low 30MHz – 1GHz (5180 MHz)



Ch Low 1GHz – 6GHz

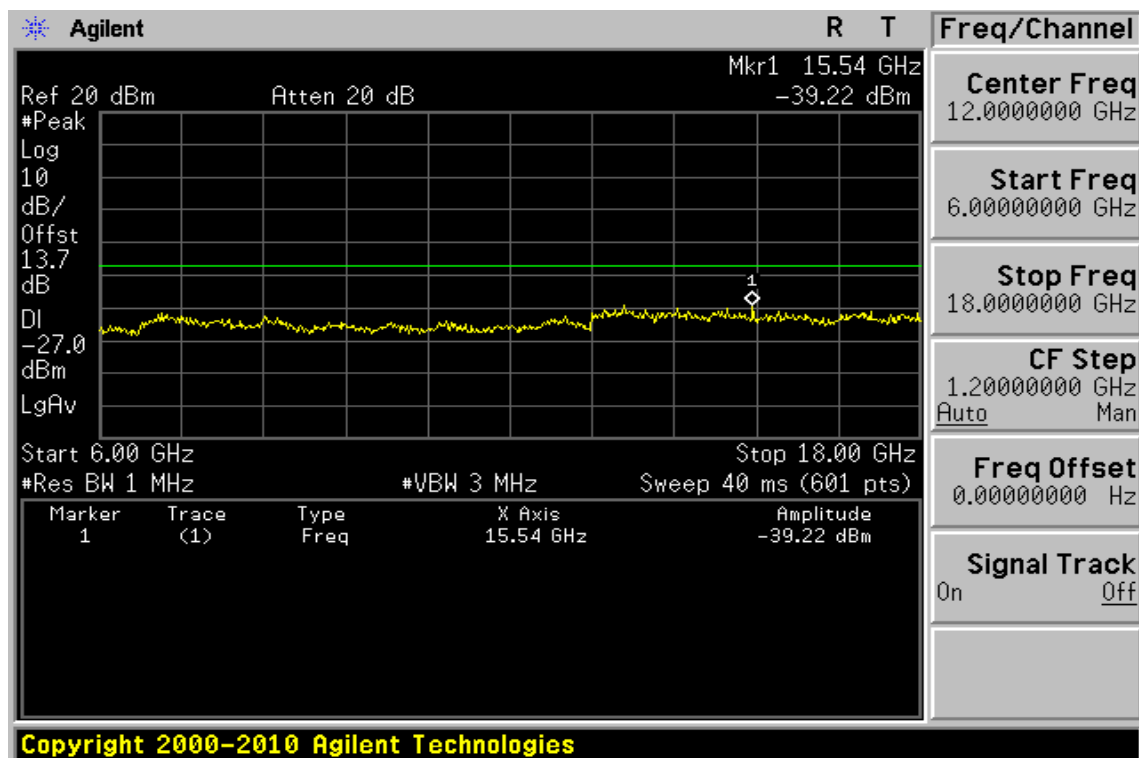


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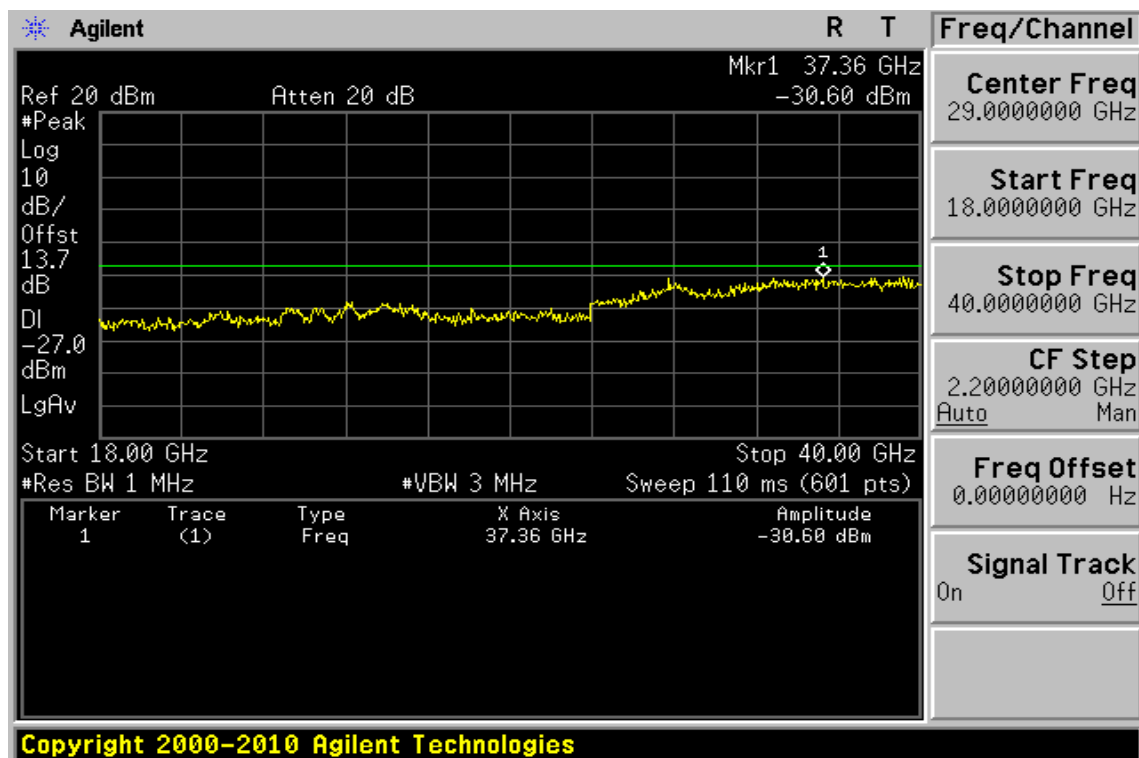
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Ch Low 6GHz – 18GHz



Ch Low 18GHz – 40GHz

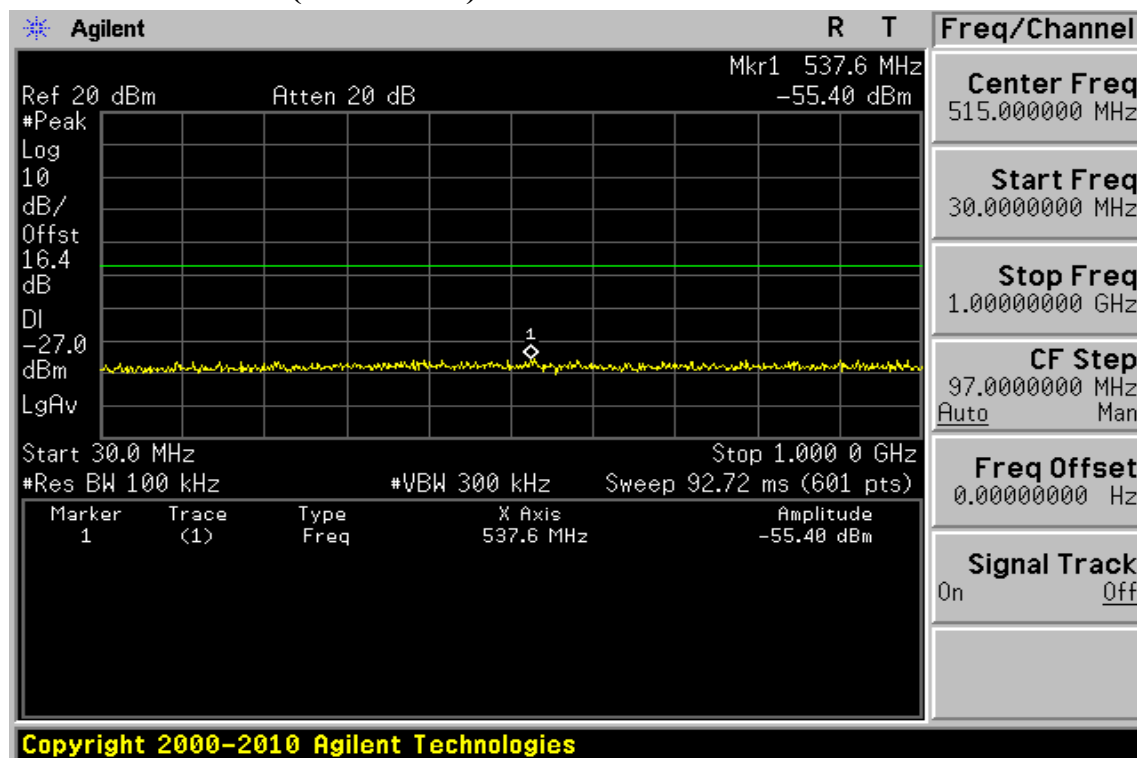


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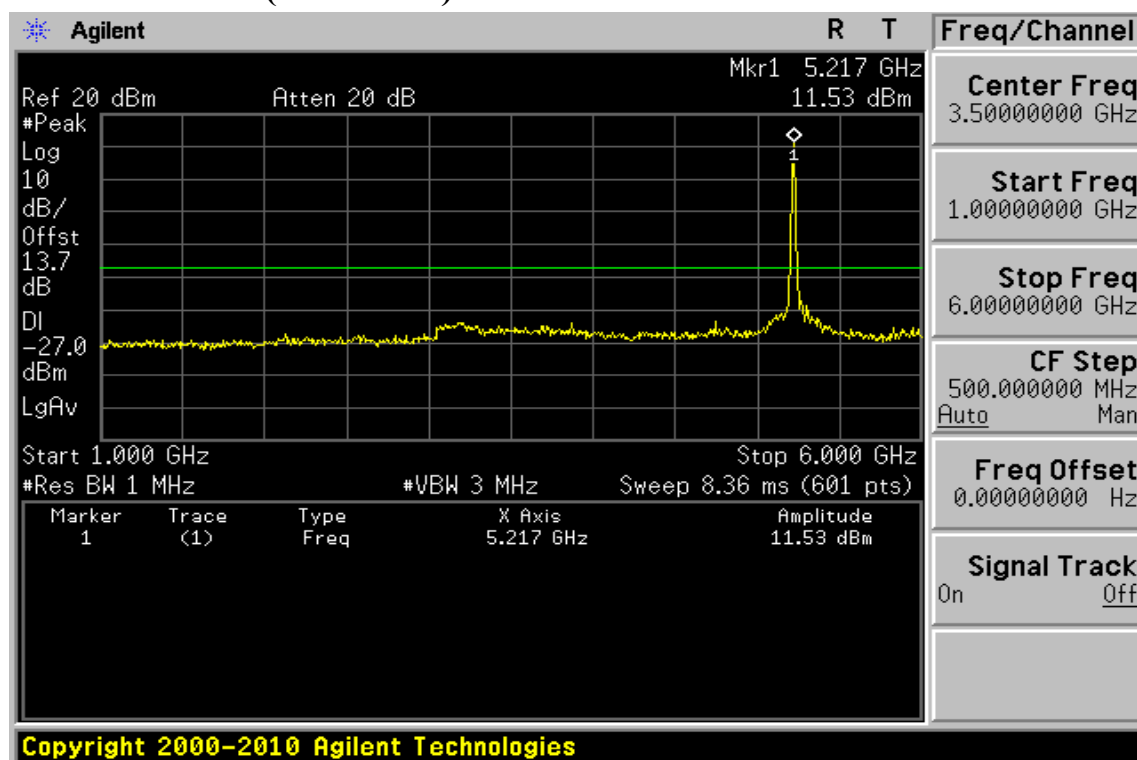
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Ch Mid 30MHz – 1GHz (5220 MHz)



Ch Mid 1GHz – 6GHz (5220 MHz)

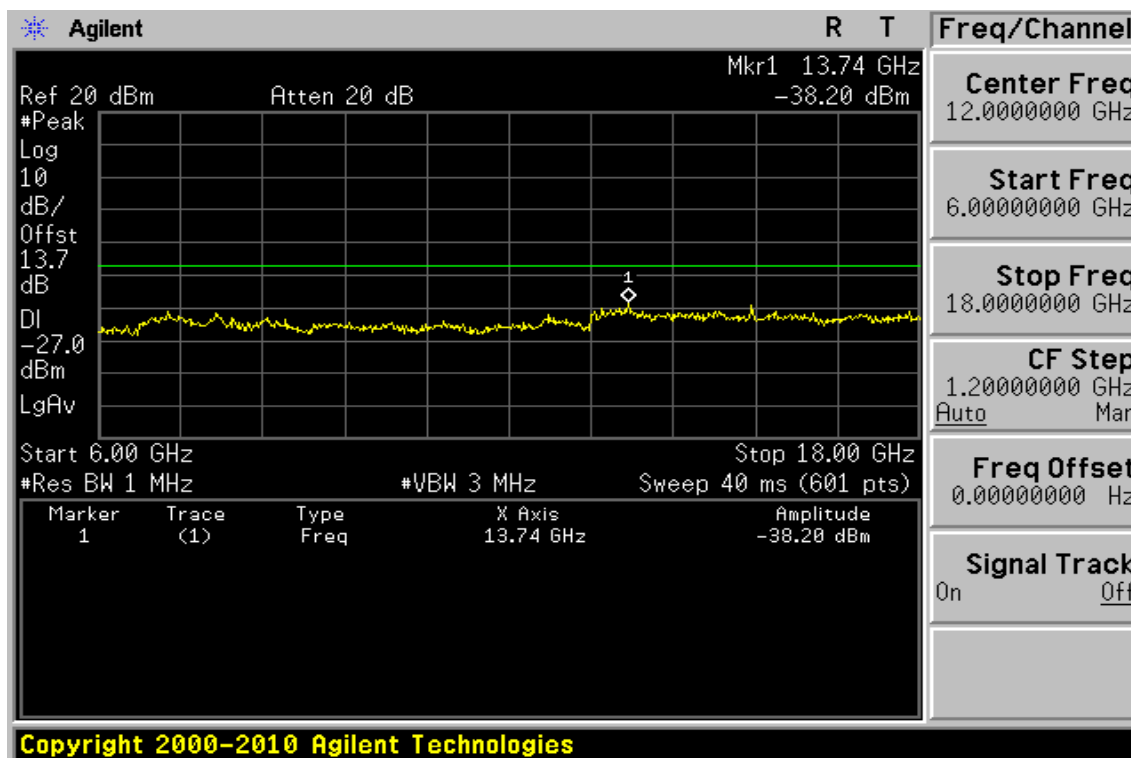


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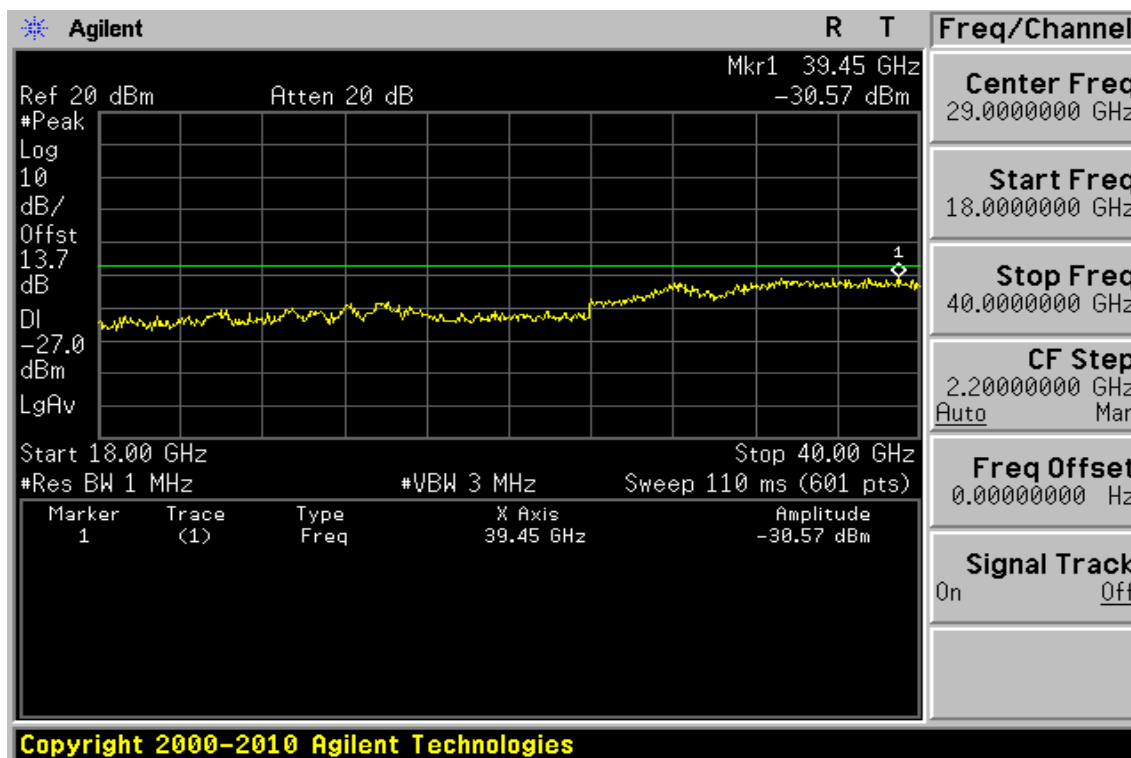
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Ch Mid 6GHz – 18GHz



Ch Mid 18GHz – 40GHz

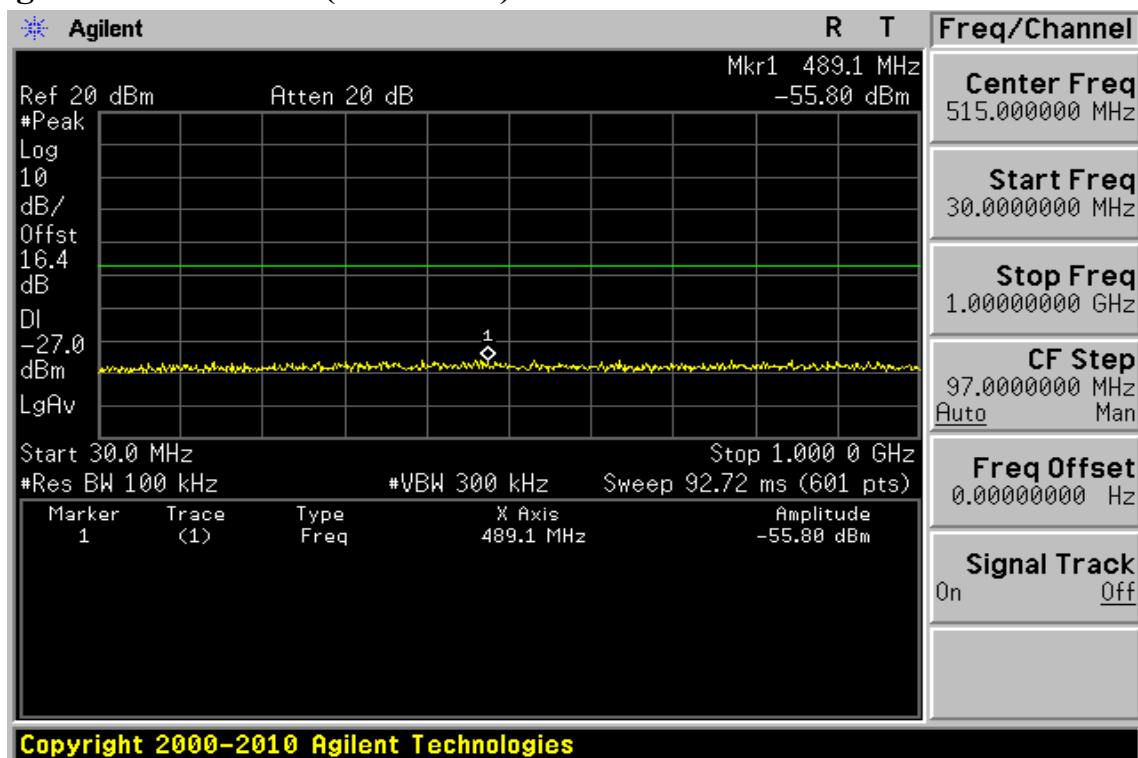


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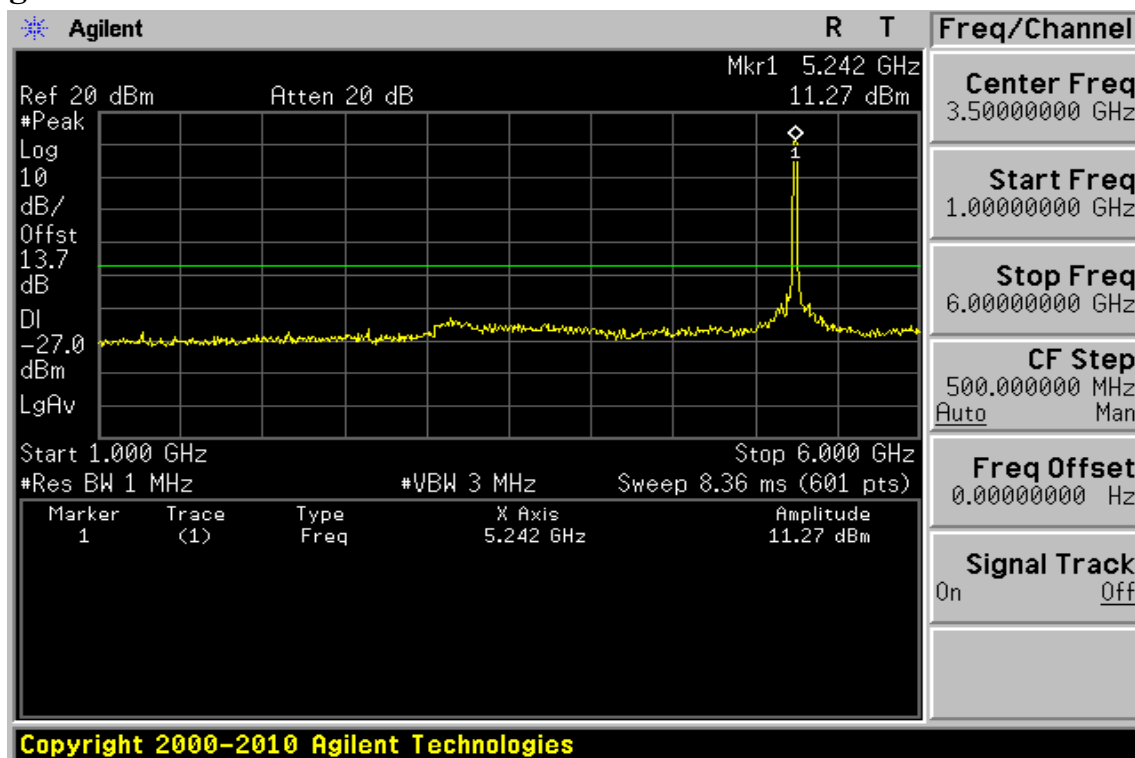
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Ch High 30MHz – 1GHz (5240 MHz)



Ch High 1GHz – 6GHz

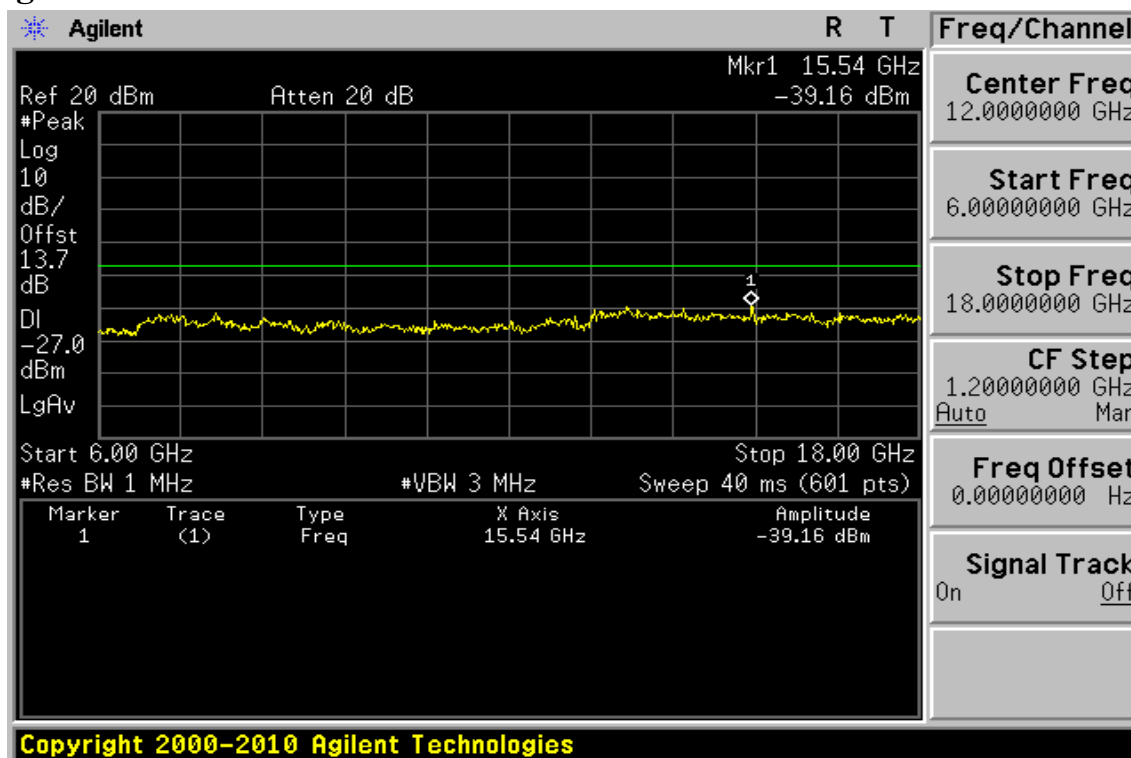


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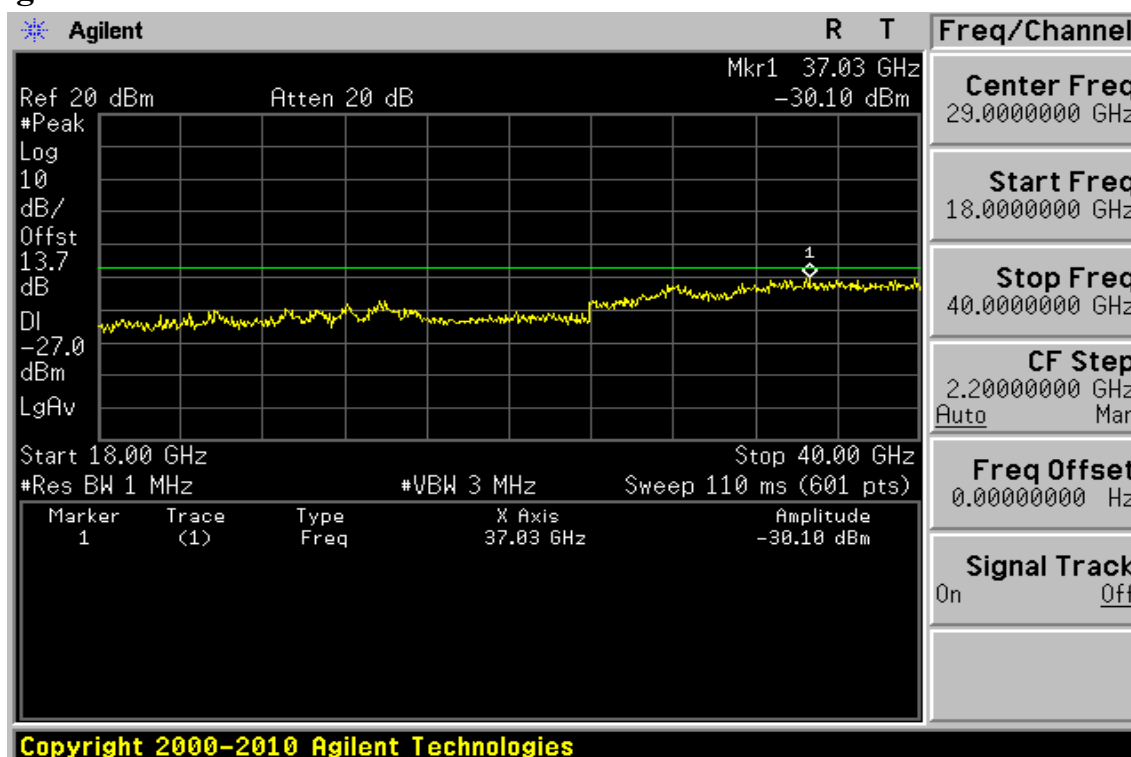
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Ch High 6GHz – 18GHz



Ch High 18GHz – 40GHz



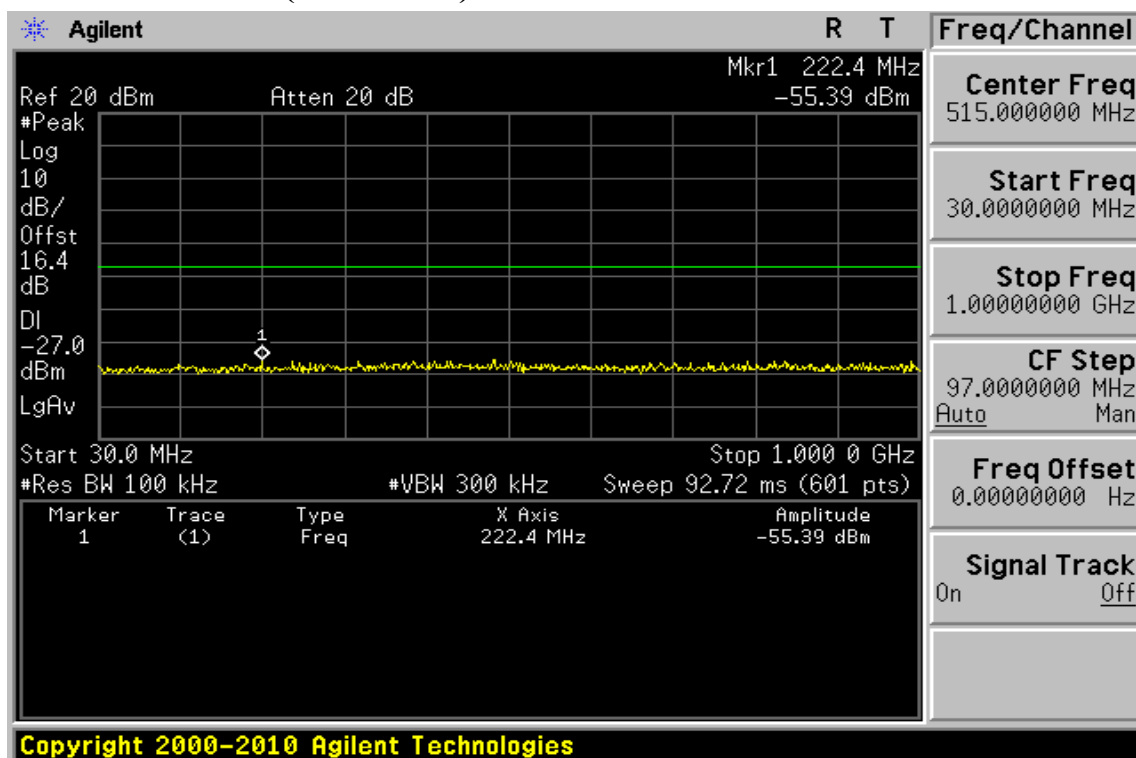
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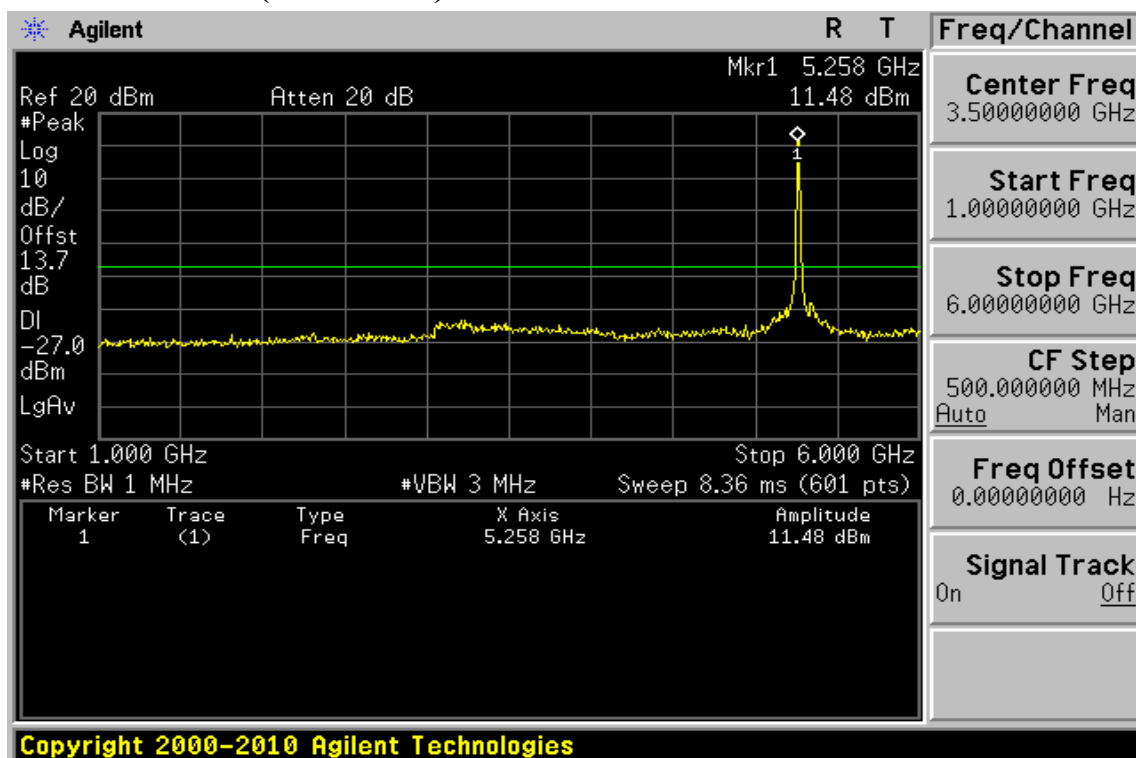
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802.11a, 5250~5350 MHz

Ch Low 30MHz – 1GHz (5260 MHz)



Ch Low 1GHz – 6GHz (5260 MHz)

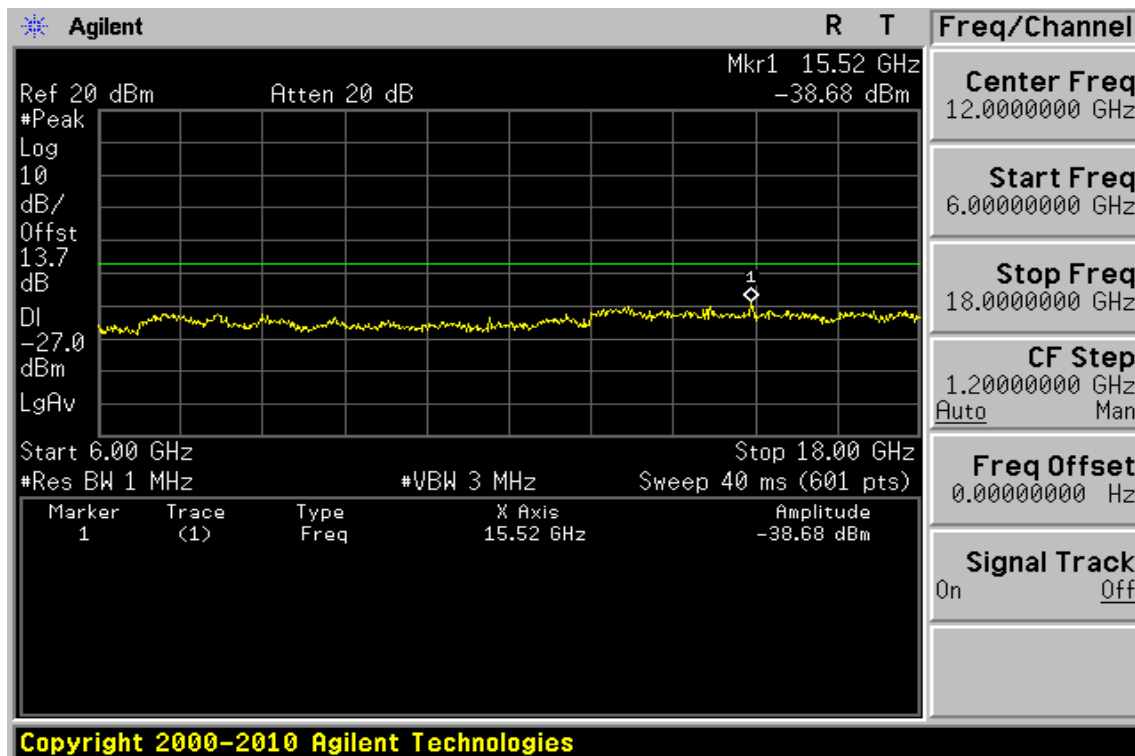


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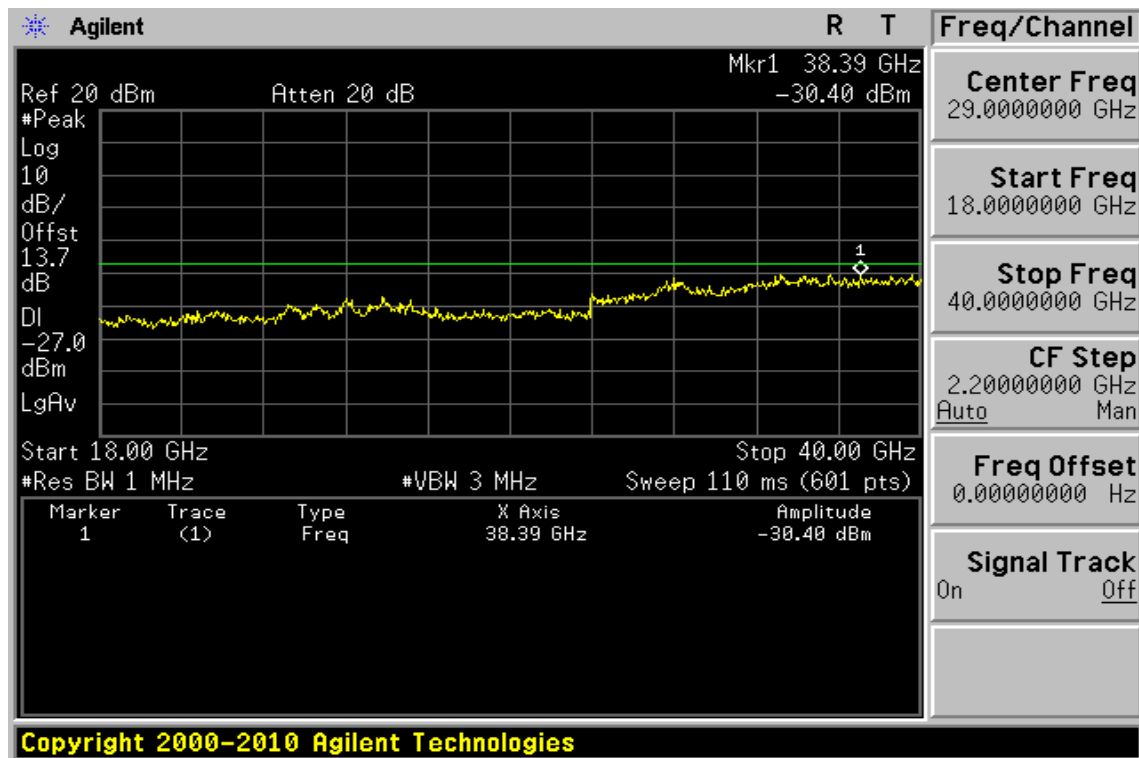
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Ch Low 6GHz – 18GHz



Ch Low 18GHz – 40GHz

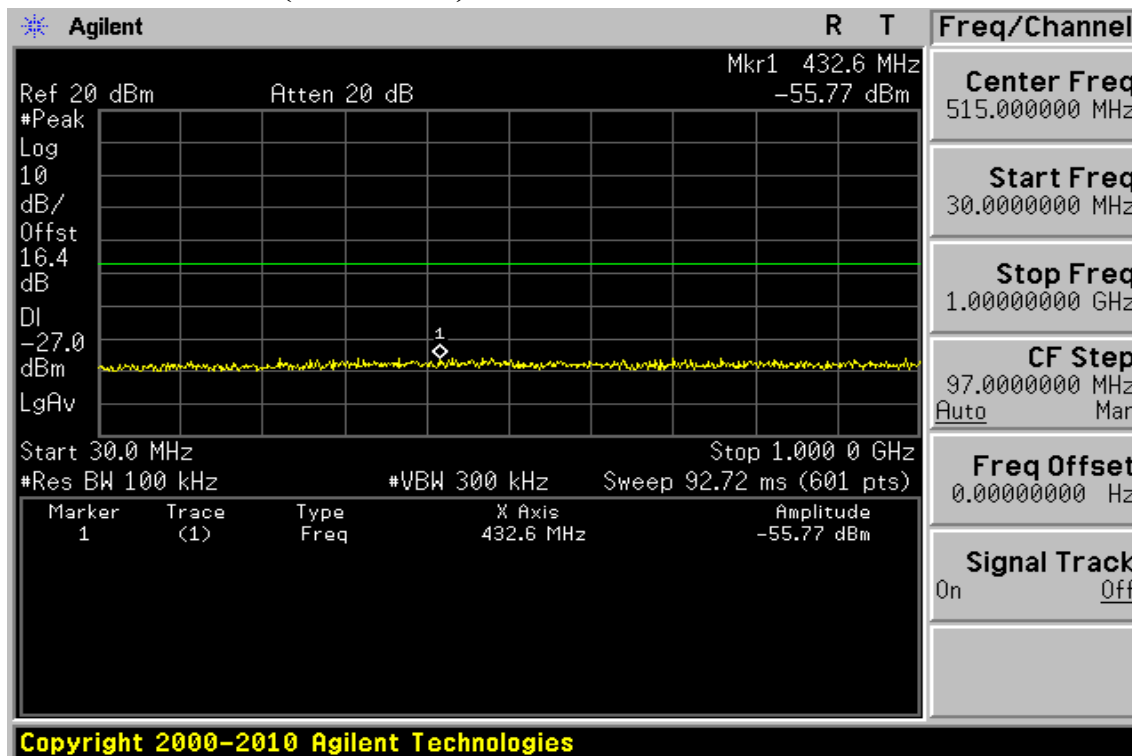


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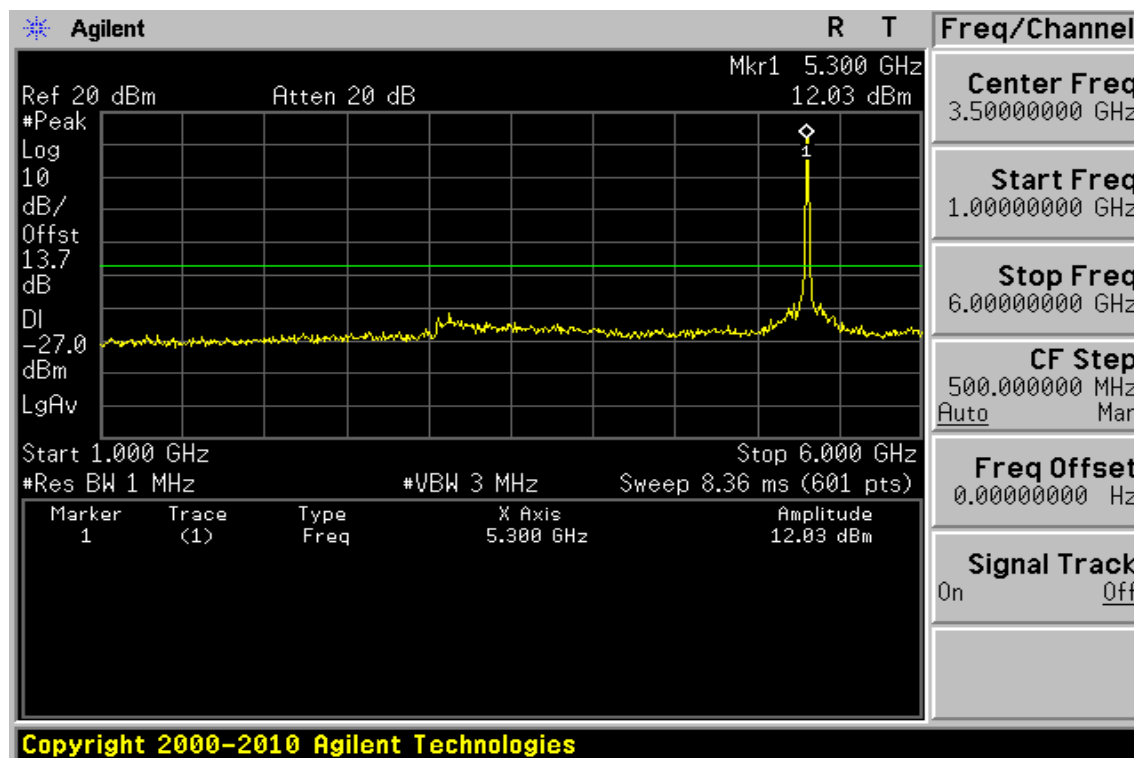
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Ch Mid 30MHz – 1GHz (5300 MHz)



Ch Mid 1GHz – 6GHz

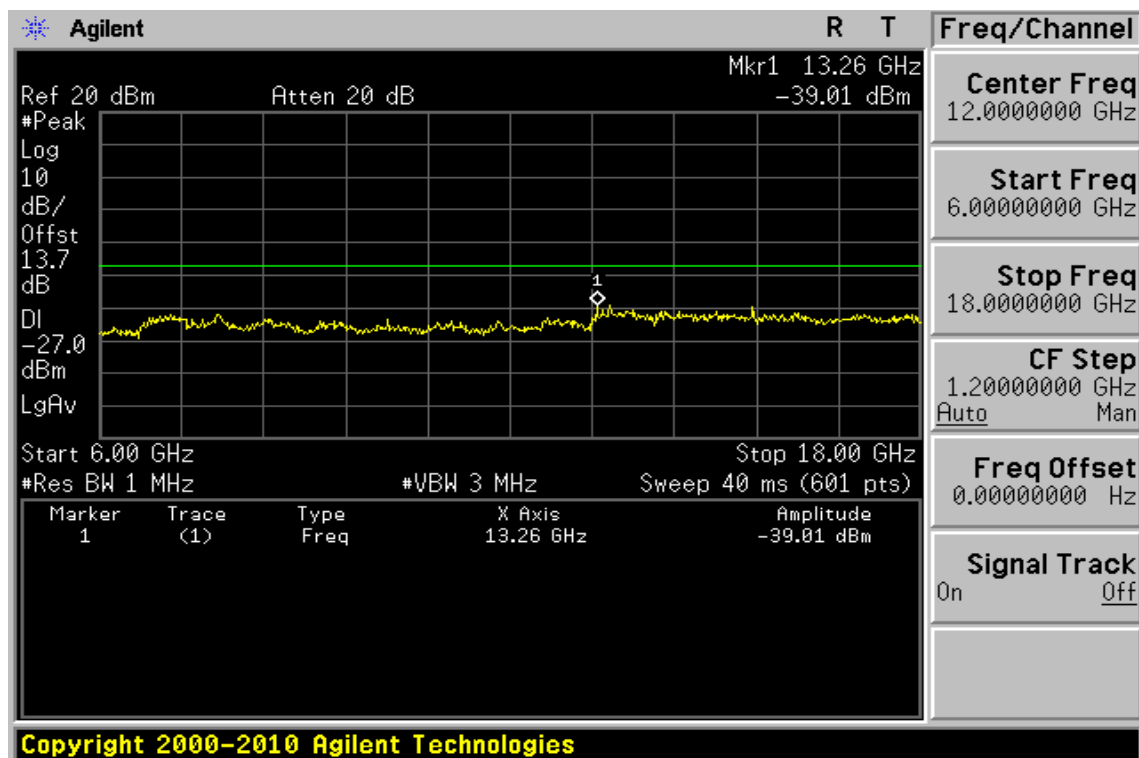


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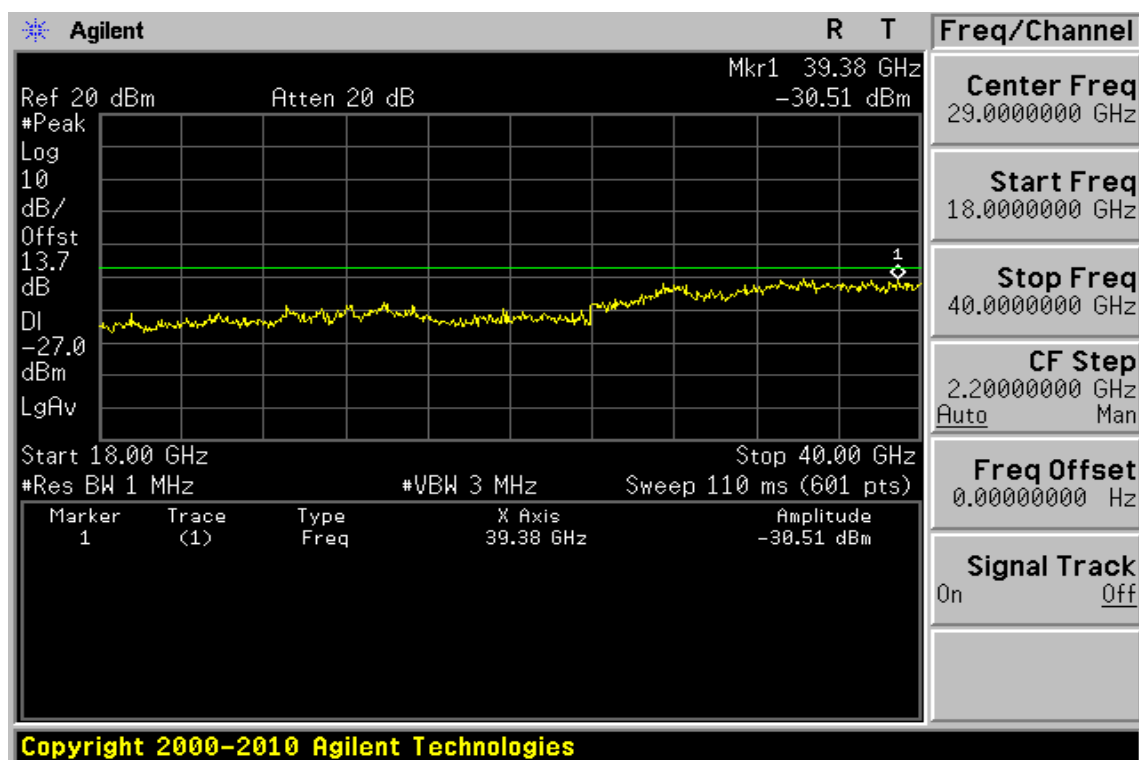
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Ch Mid 6GHz – 18GHz



Ch Mid 18GHz – 40GHz

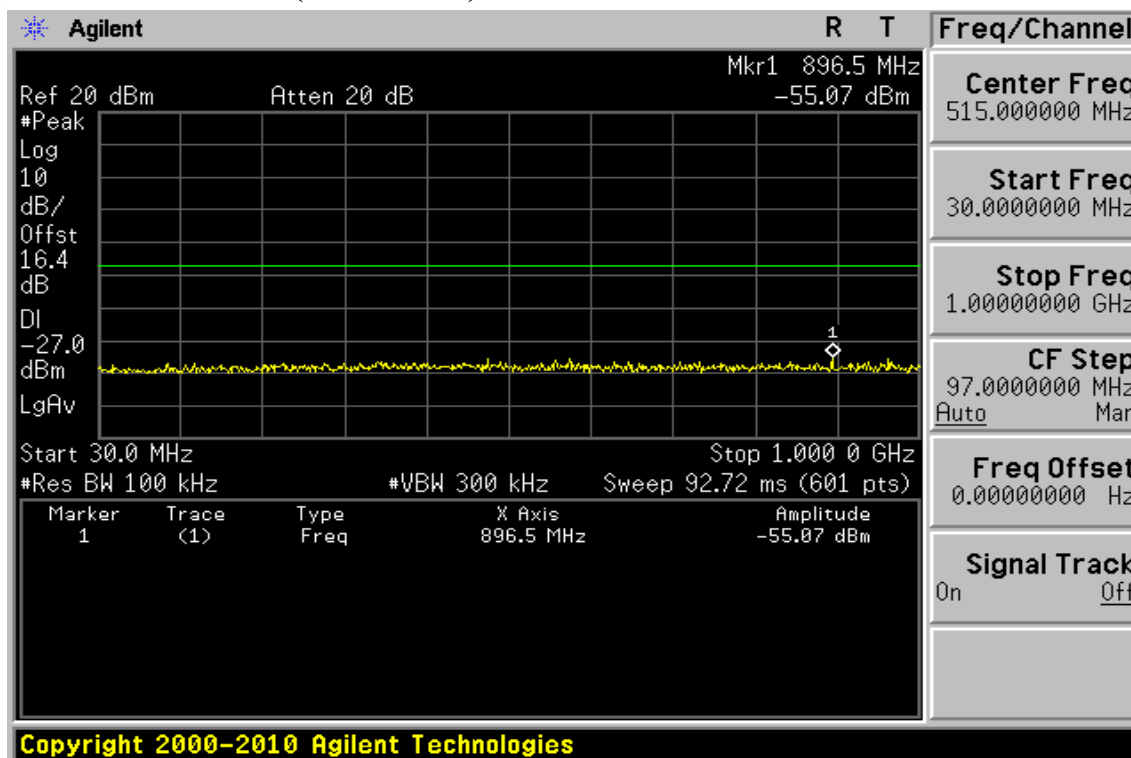


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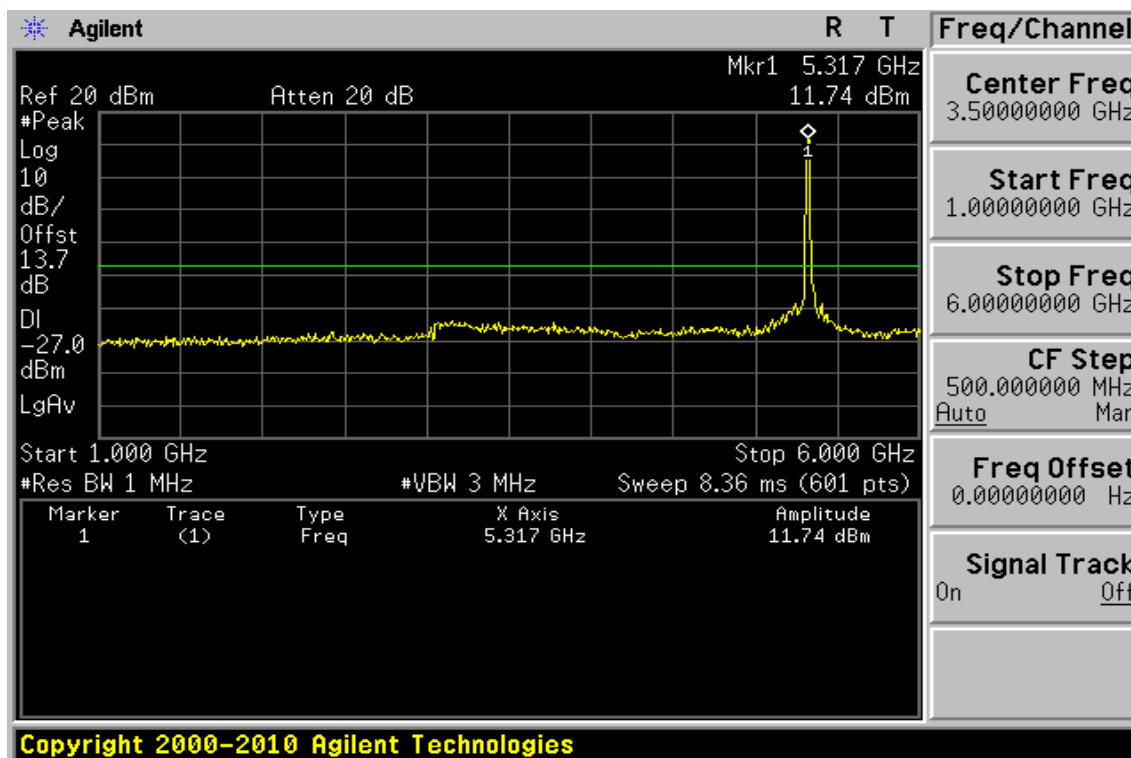
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Ch High 30MHz – 1GHz (5320 MHz)



Ch High 1GHz – 6GHz

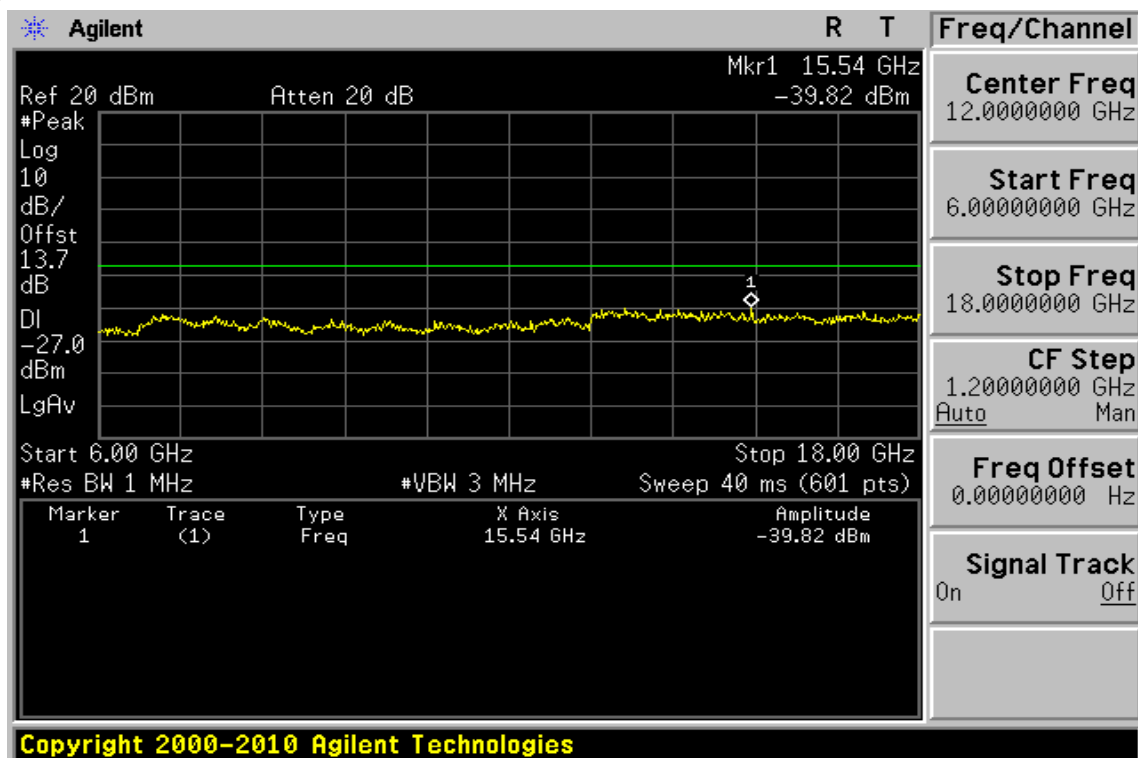


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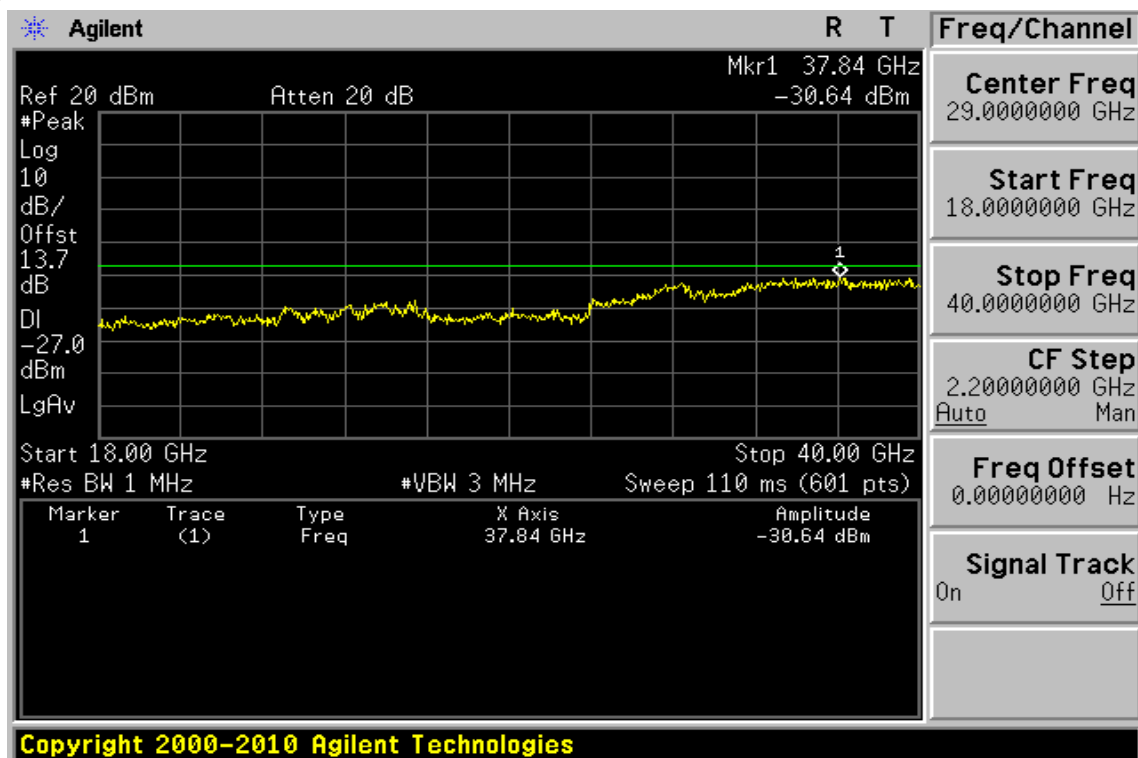
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Ch High 6GHz – 18GHz



Ch High 18GHz – 40GHz



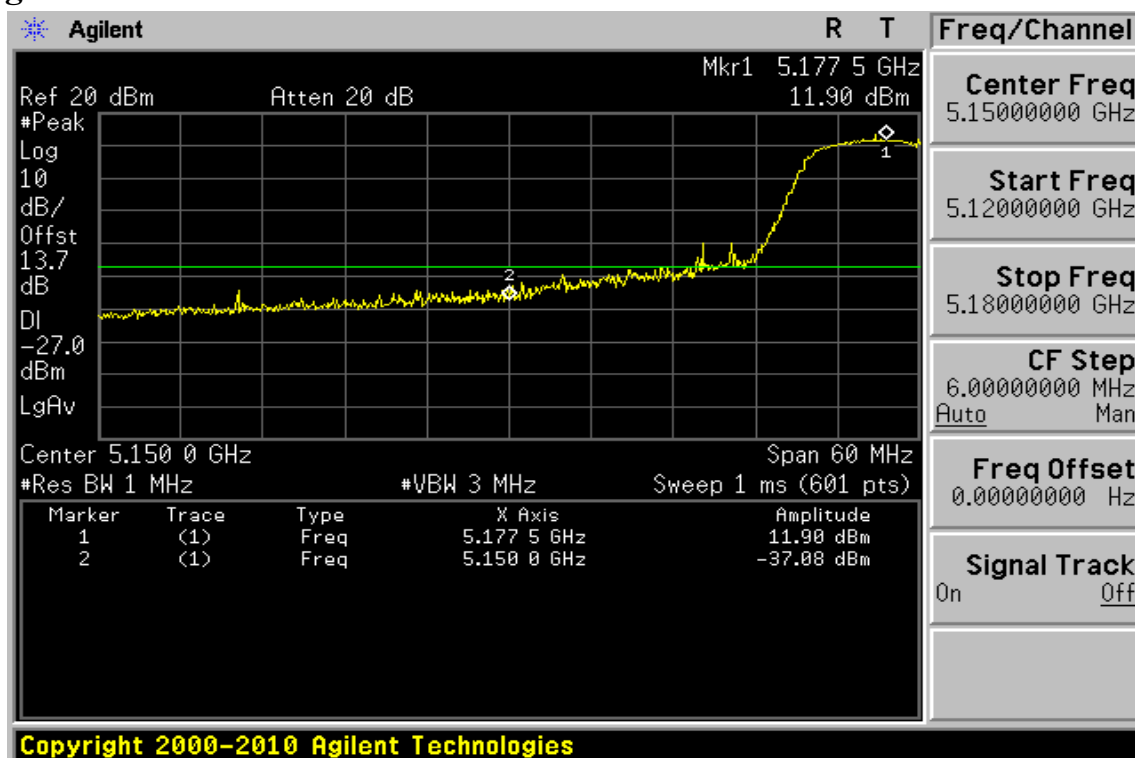
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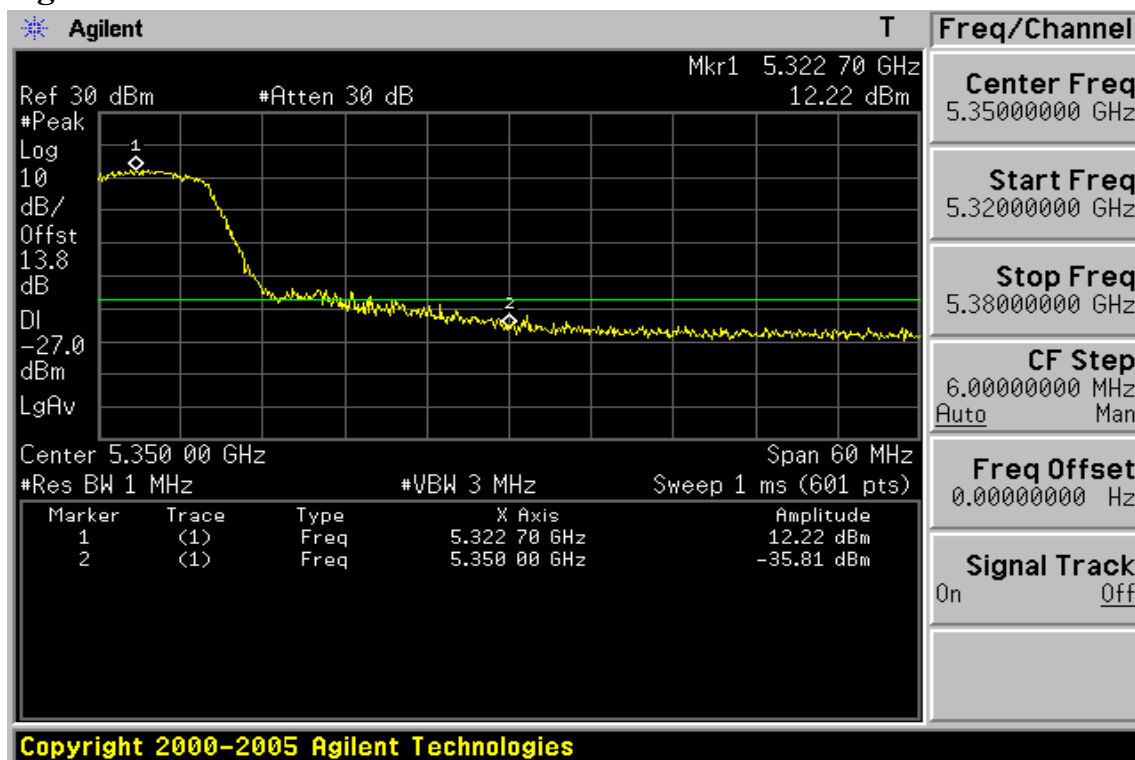
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802.11a 5150~5350 MHz

Band Edges Test Data CH 5150



Band Edges Test Data CH 5350



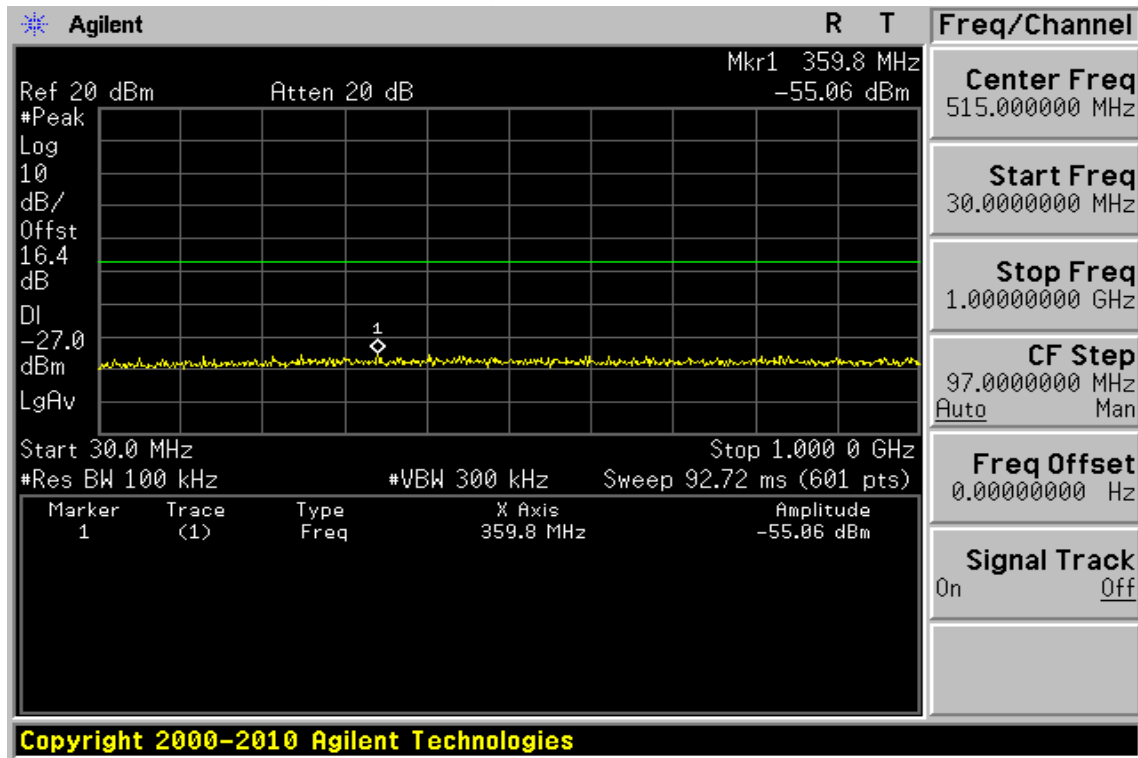
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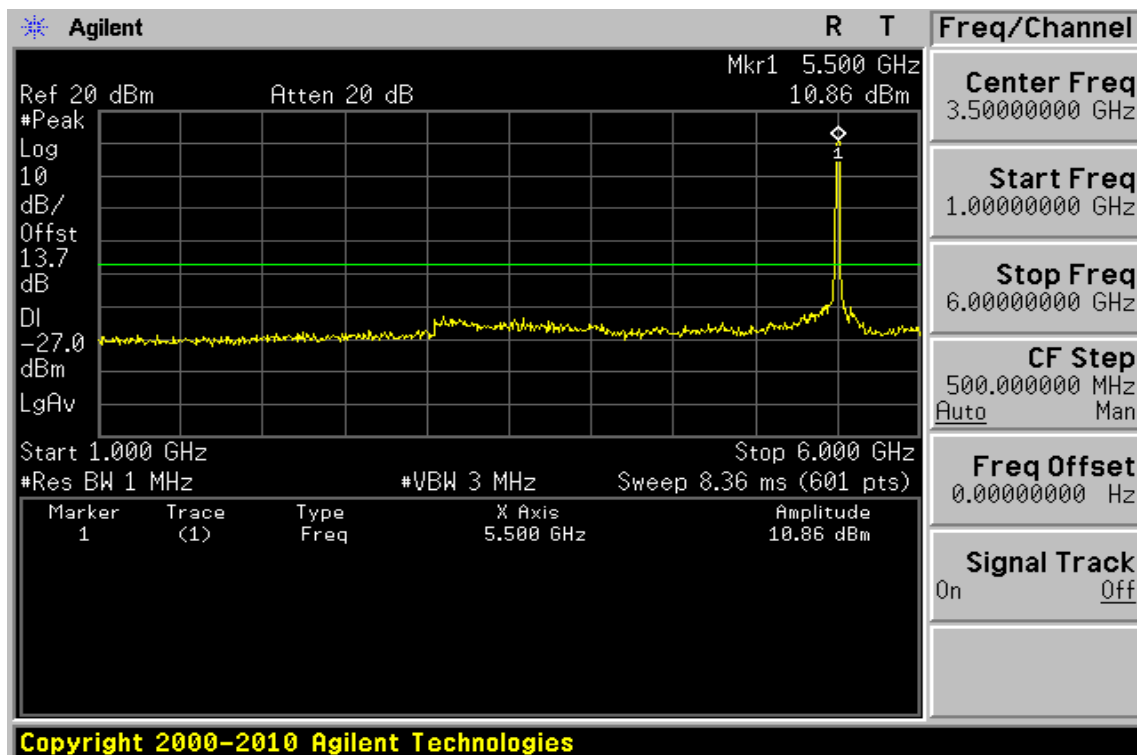
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802.11a, 5470~5725 MHz

Ch Low 30MHz – 1GHz (5500 MHz)



Ch Low 1GHz – 6GHz

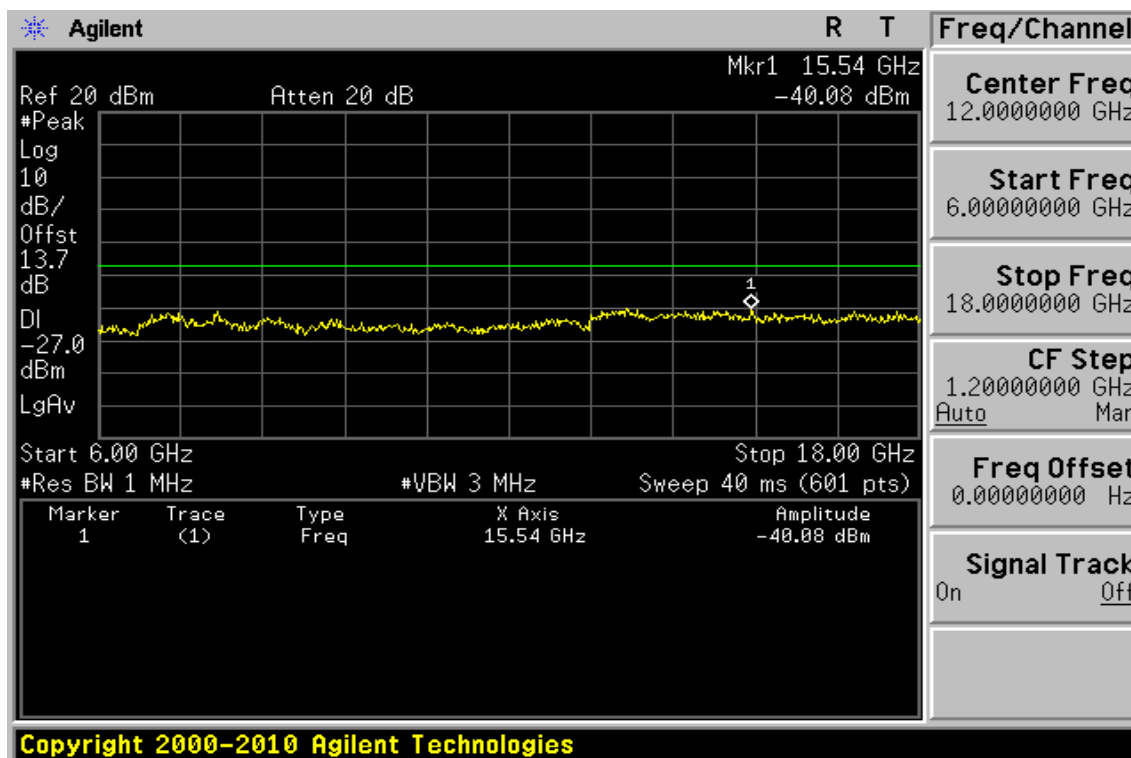


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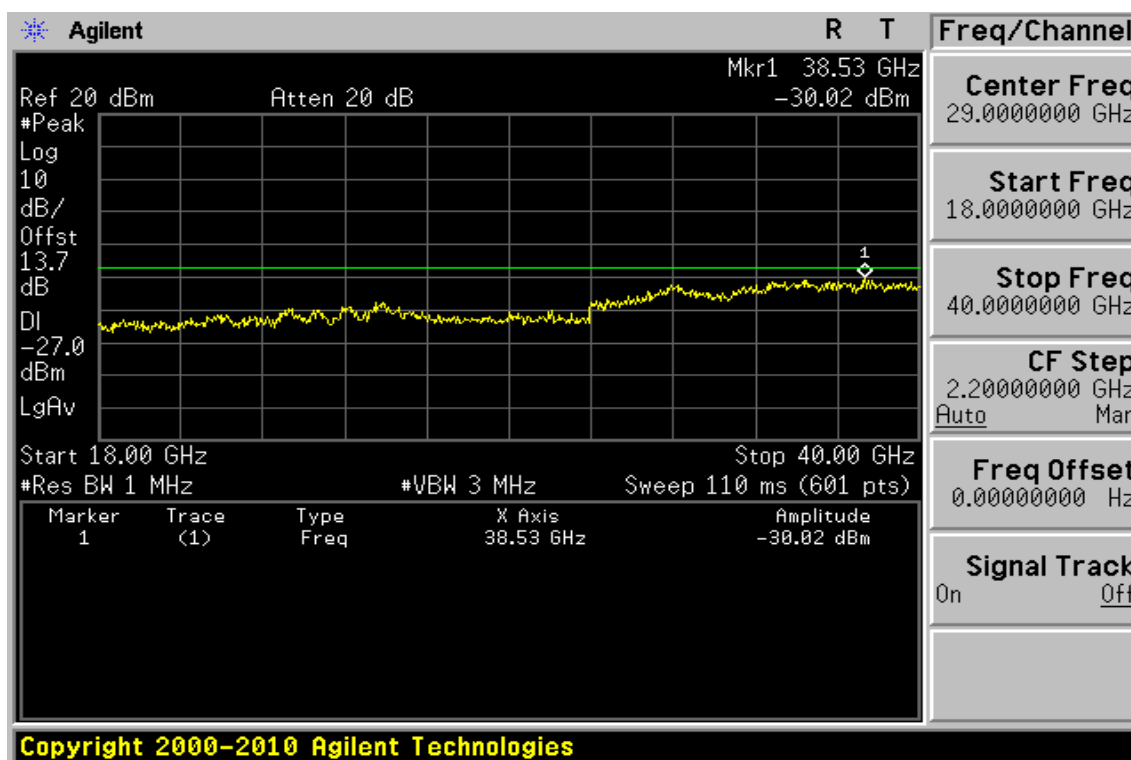
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Ch Low 6GHz – 18GHz



Ch Low 18GHz – 40GHz

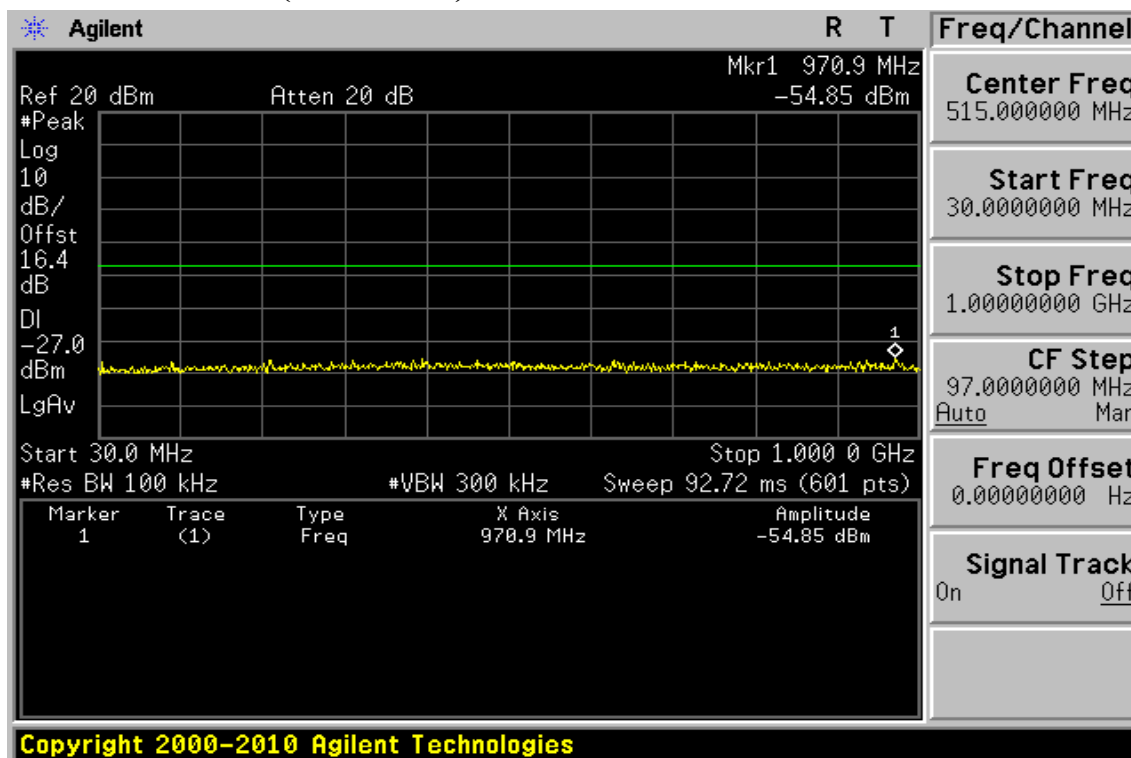


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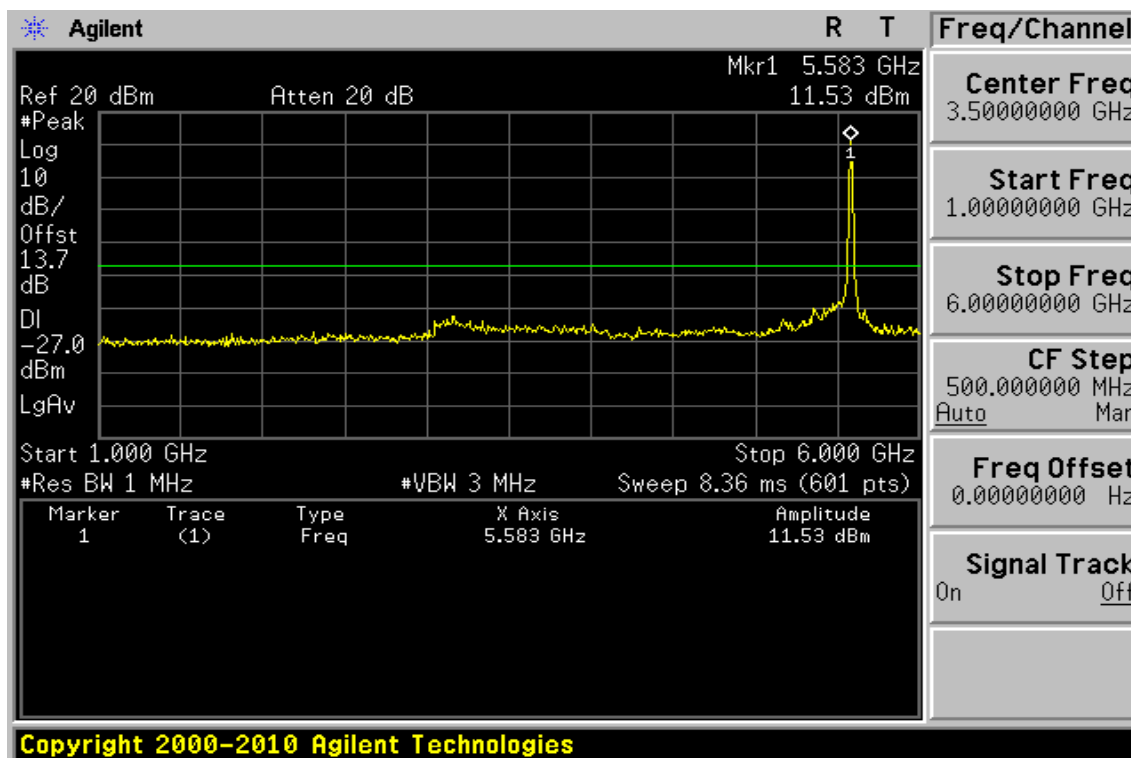
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Ch Mid 30MHz – 1GHz (5580 MHz)



Ch Mid 1GHz – 6GHz

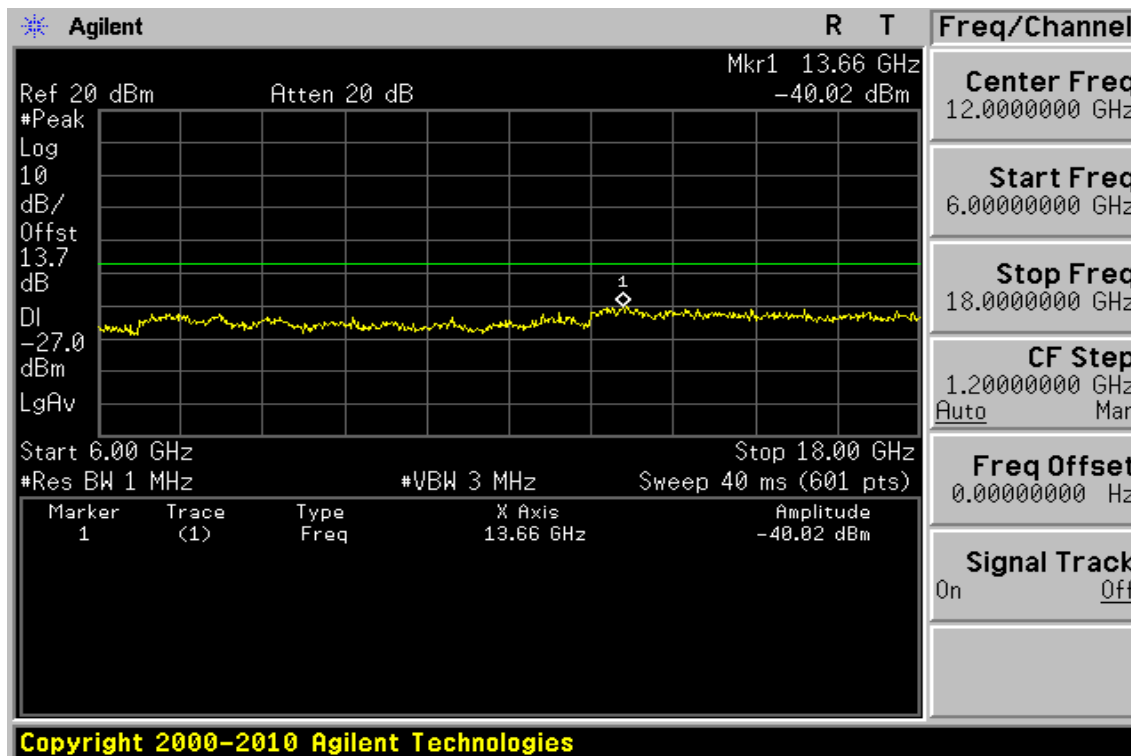


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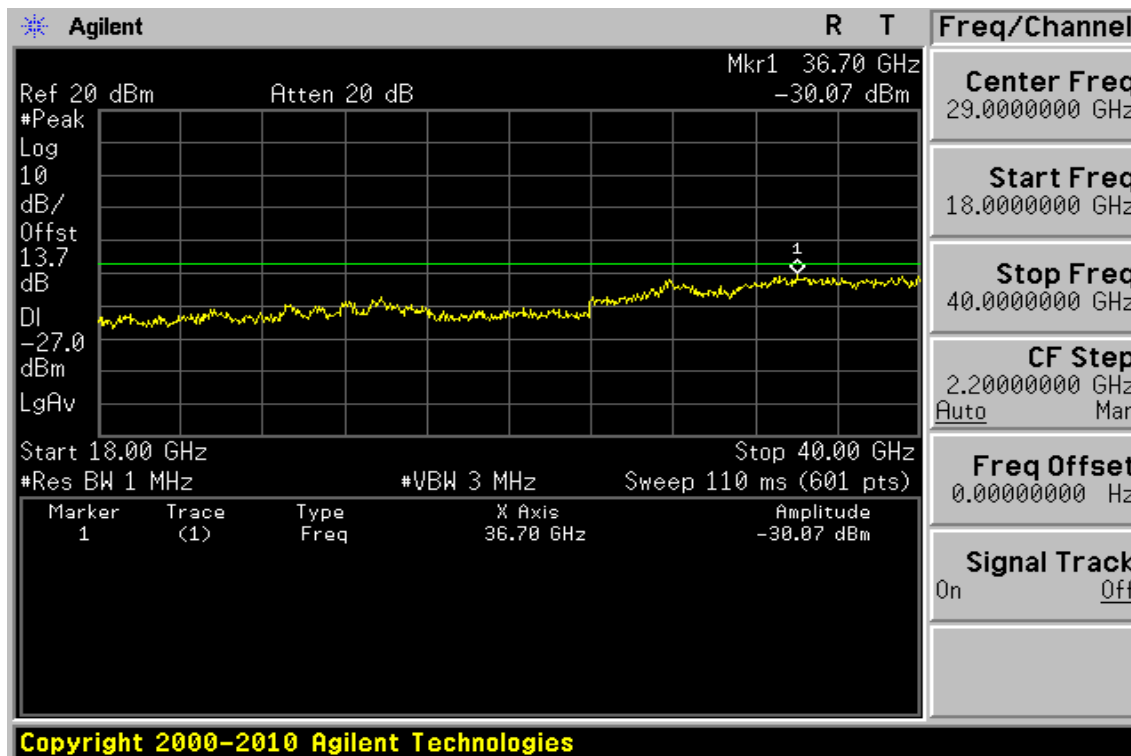
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Ch Mid 6GHz – 18GHz



Ch Mid 18GHz – 40GHz

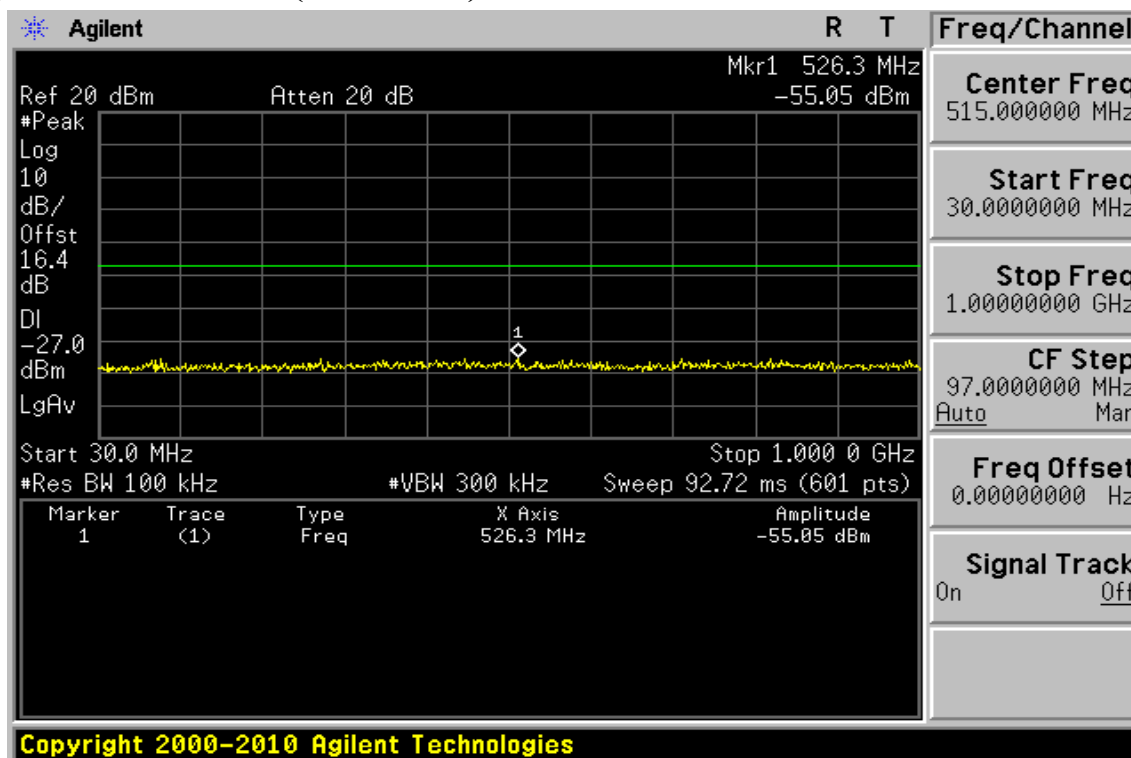


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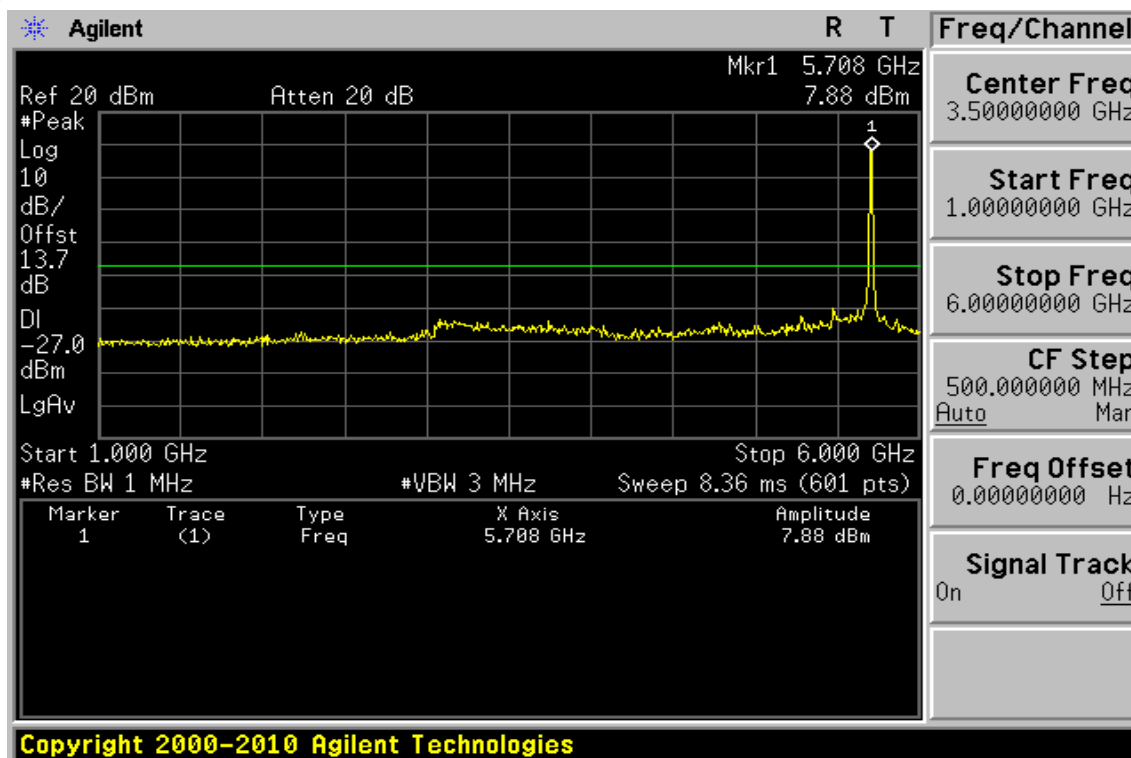
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Ch High 30MHz – 1GHz (5700 MHz)



Ch High 1GHz – 6GHz

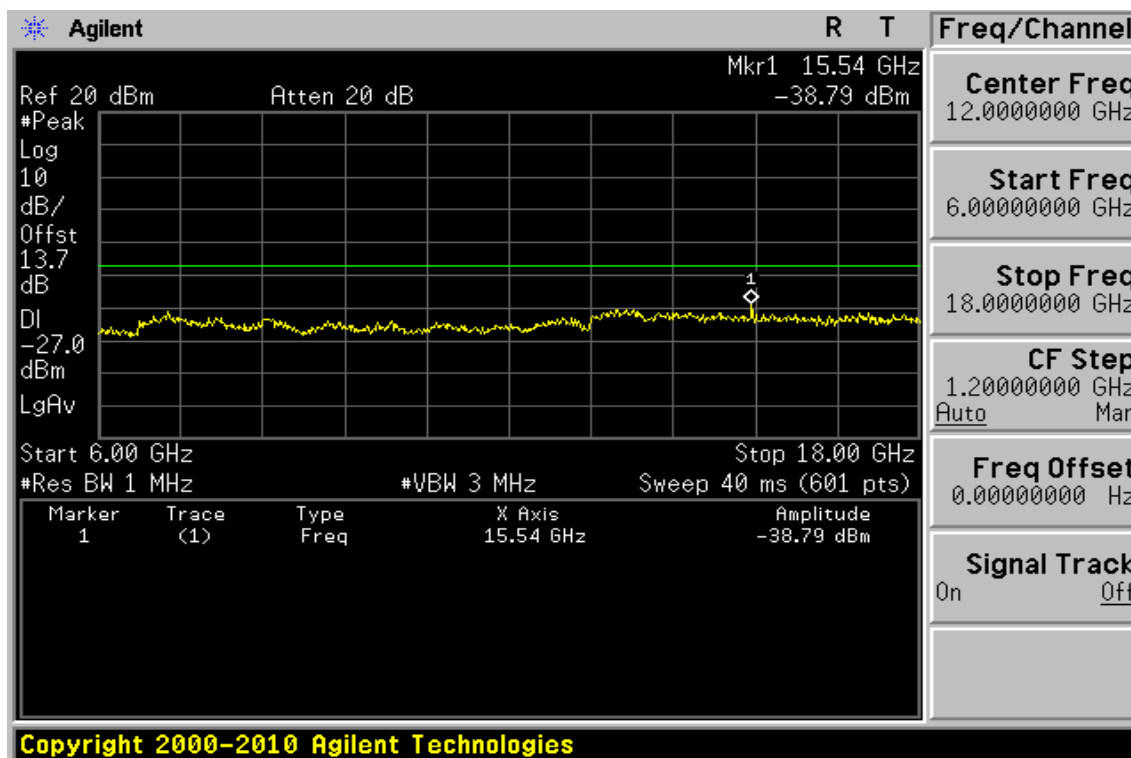


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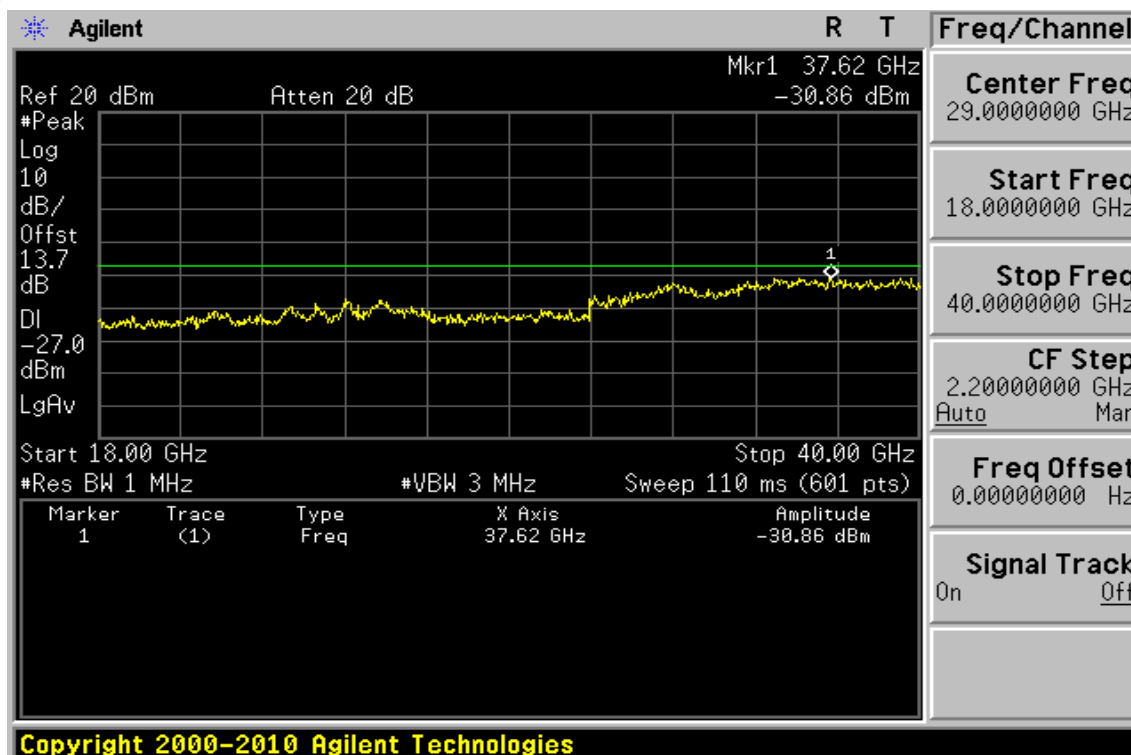
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Ch High 6GHz – 18GHz



Ch High 18GHz – 40GHz

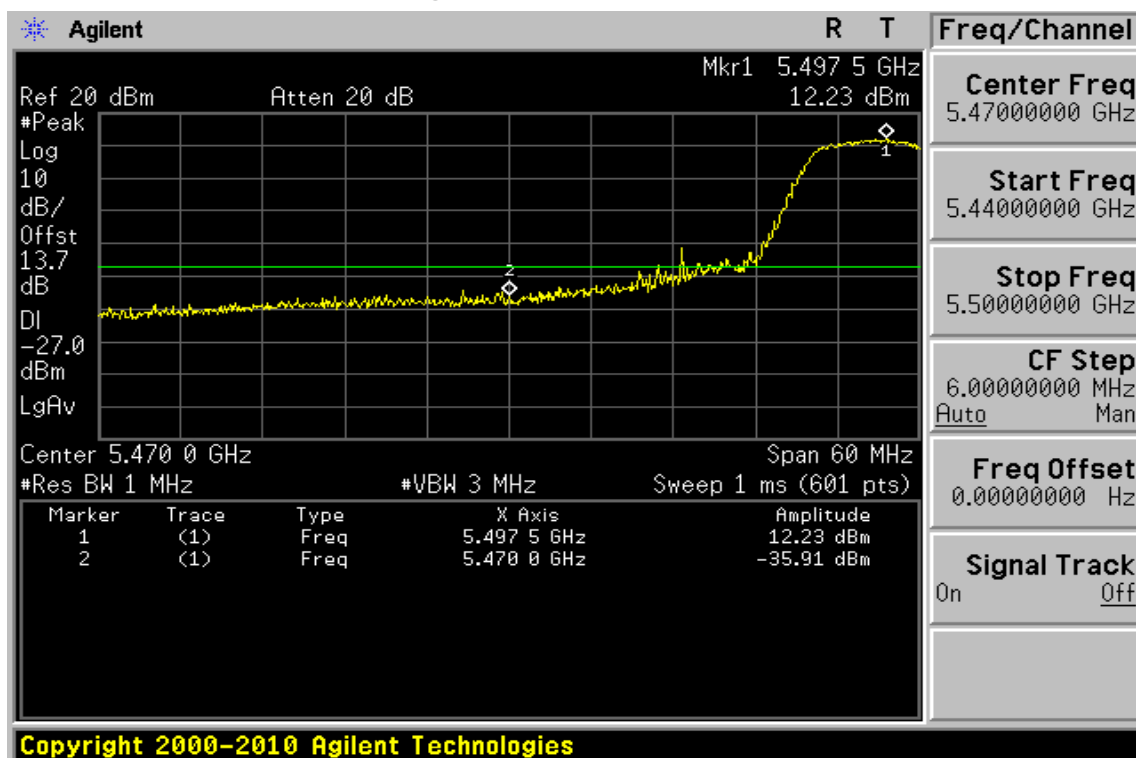


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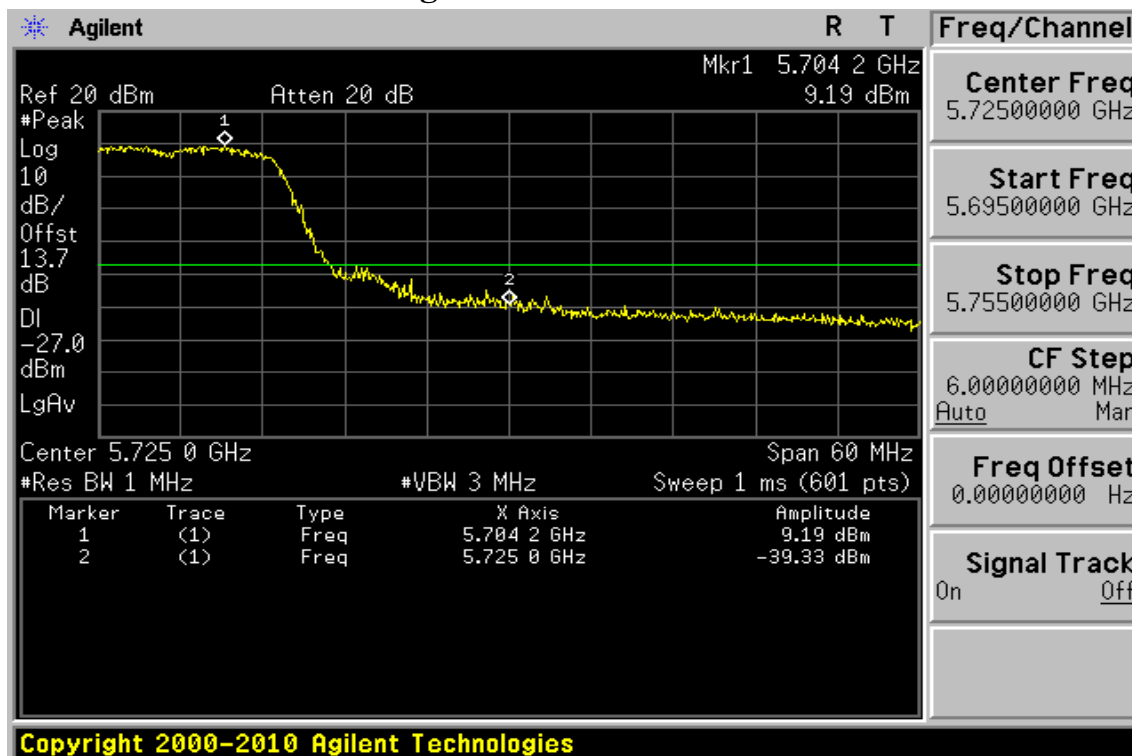
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802.11a 5470~5725 MHz Band Edges Test Data CH 5500



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



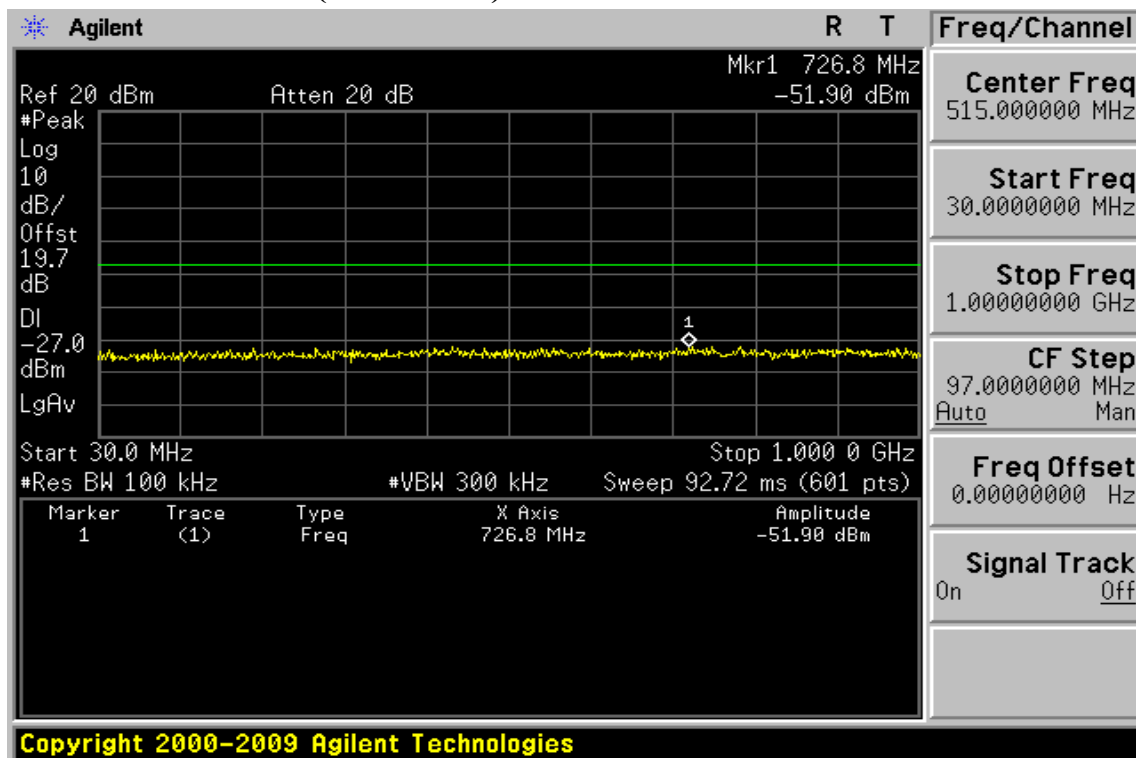
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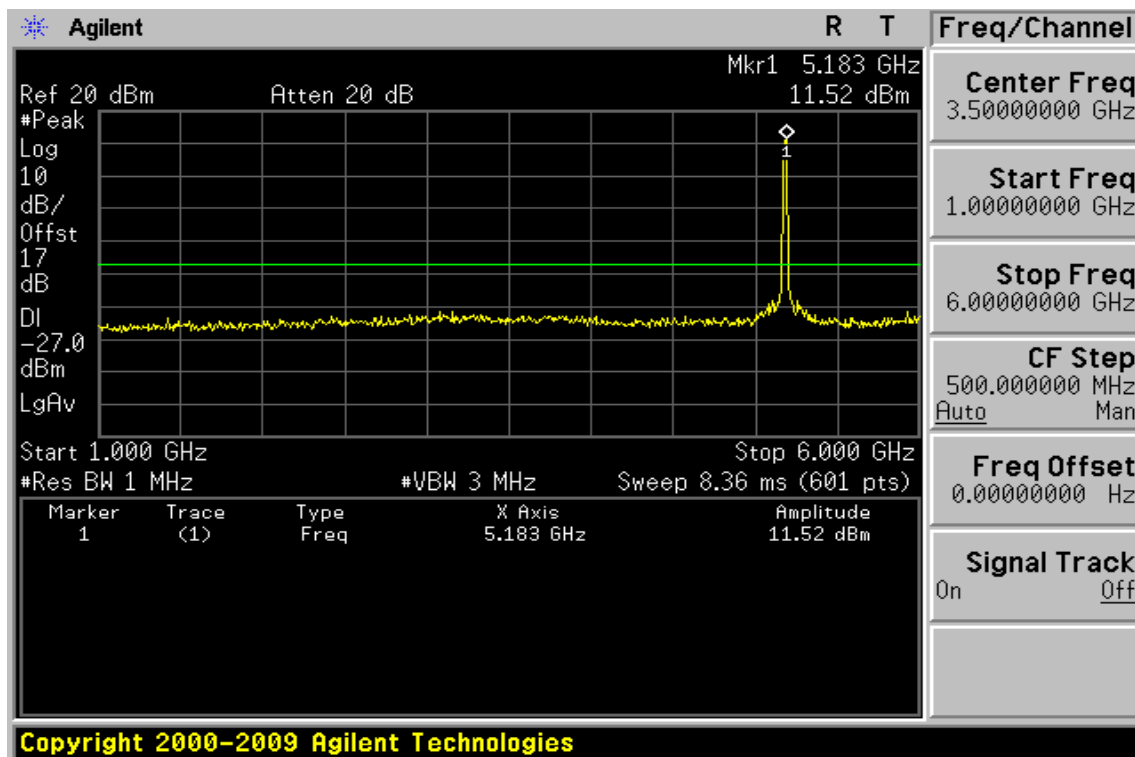
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802.11n HT20, 5150~5250 MHz

Ch Low 30MHz – 1GHz (5180 MHz)



Ch Low 1GHz – 6GHz

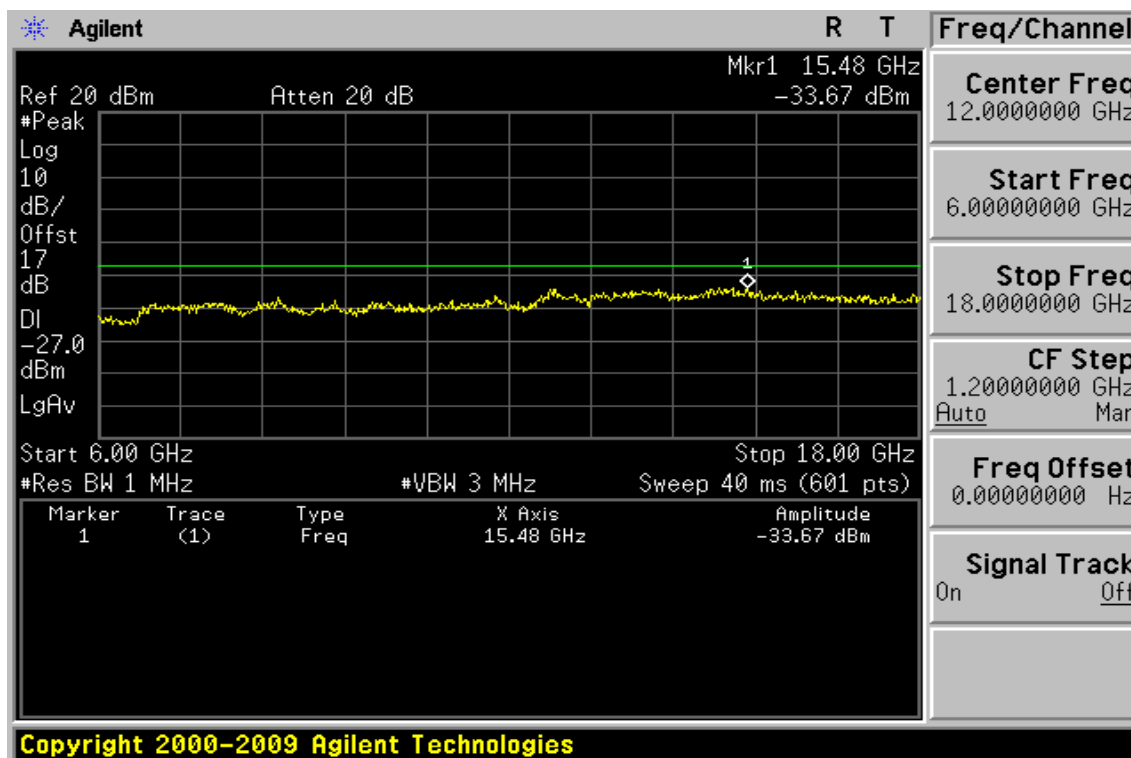


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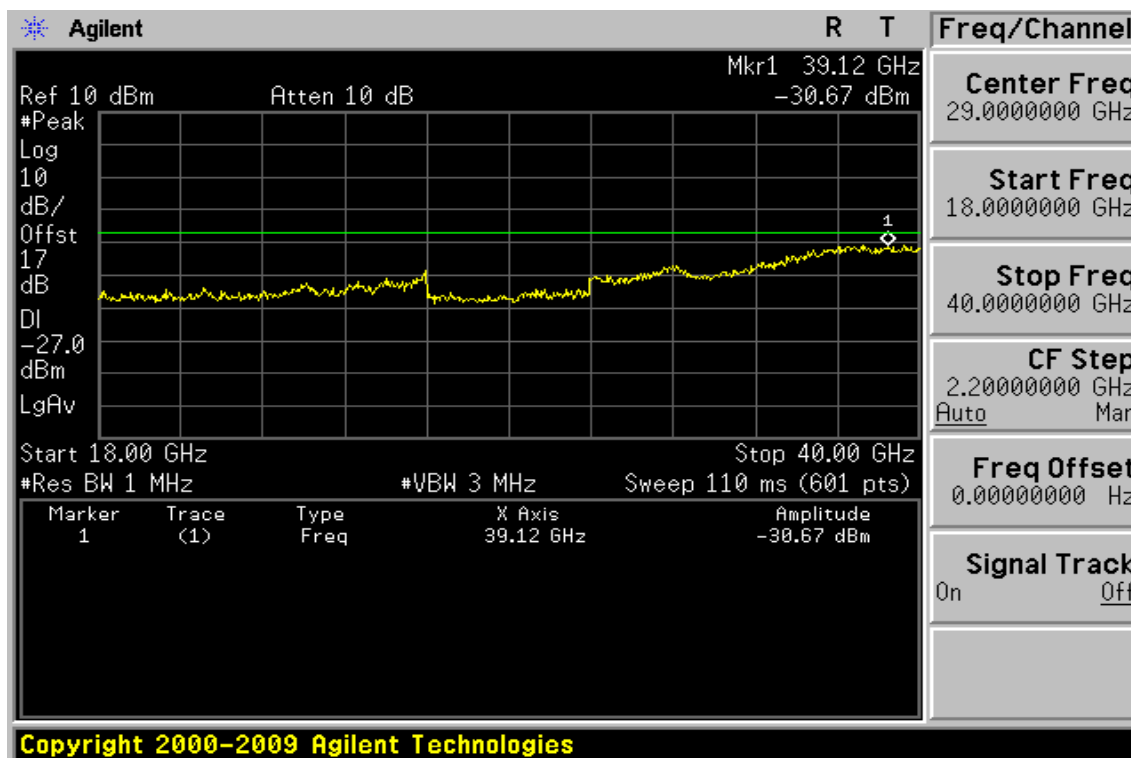
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Ch Low 6GHz – 18GHz



Ch Low 18GHz – 40GHz

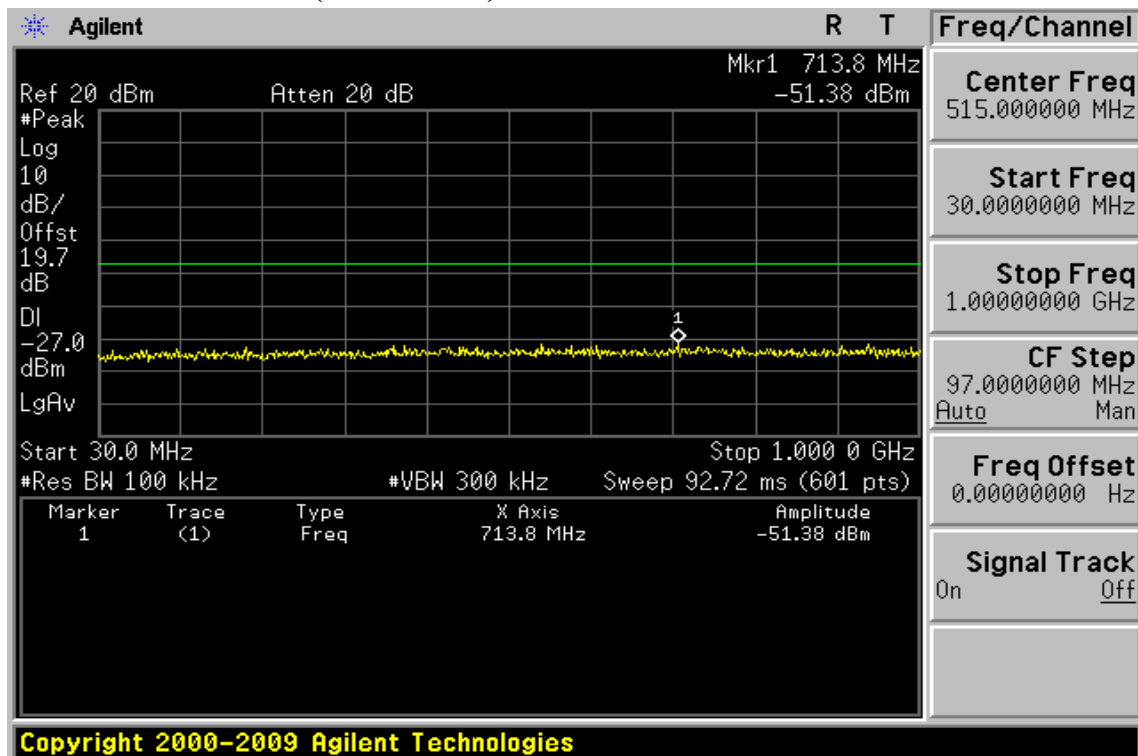


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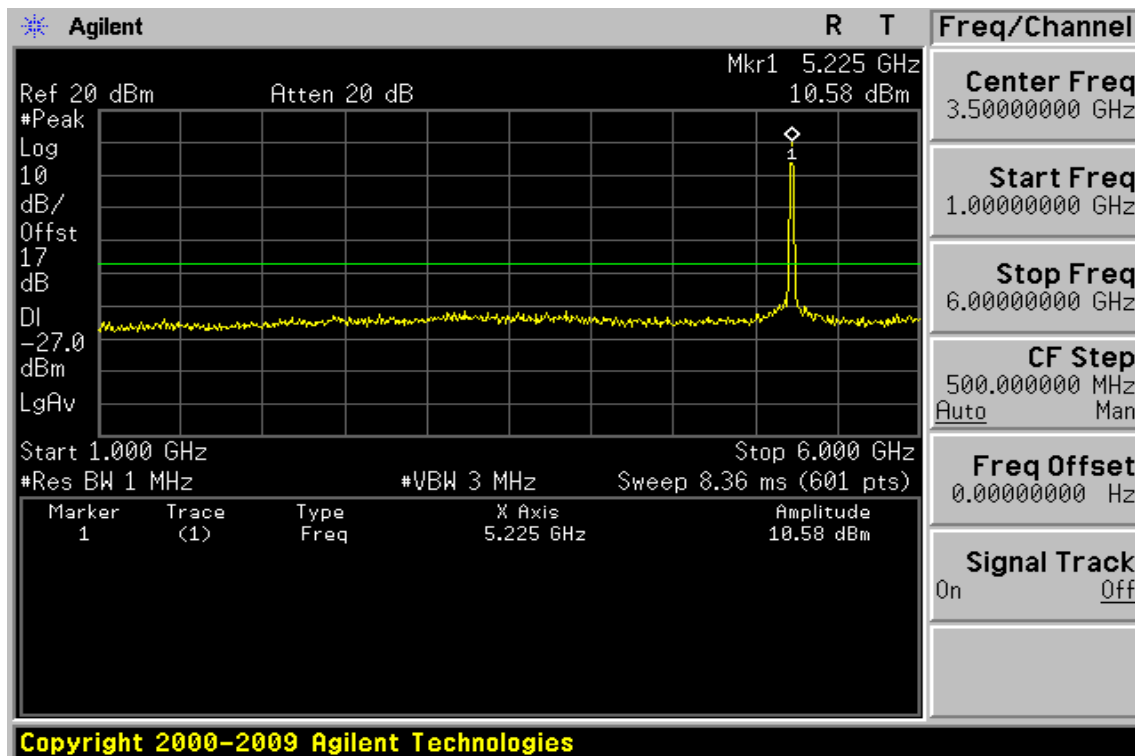
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Ch Mid 30MHz – 1GHz (5220 MHz)



Ch Mid 1GHz – 6GHz

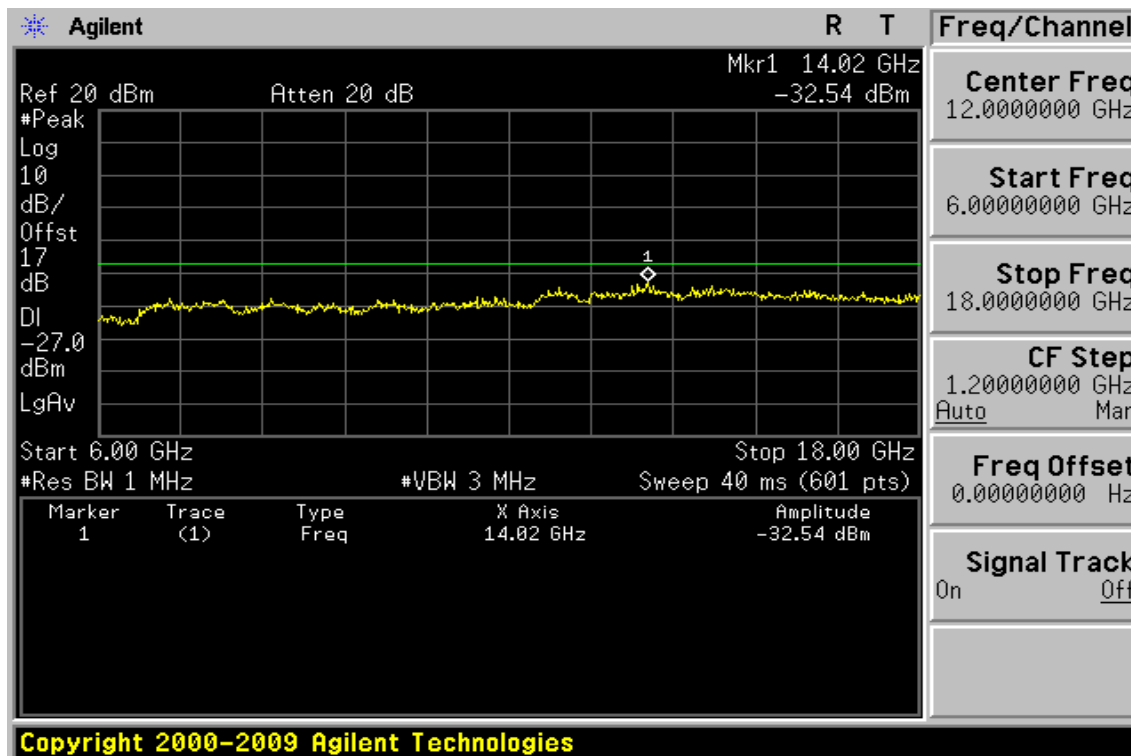


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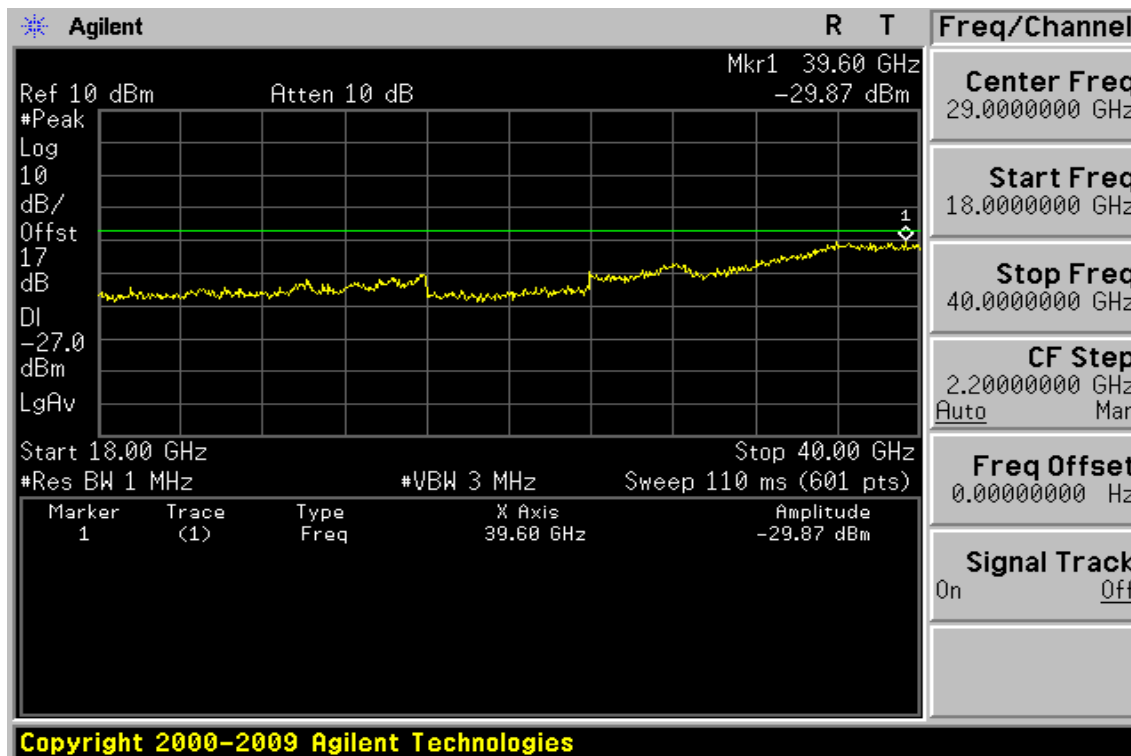
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Ch Mid 6GHz – 18GHz



Ch Mid 18GHz – 40GHz

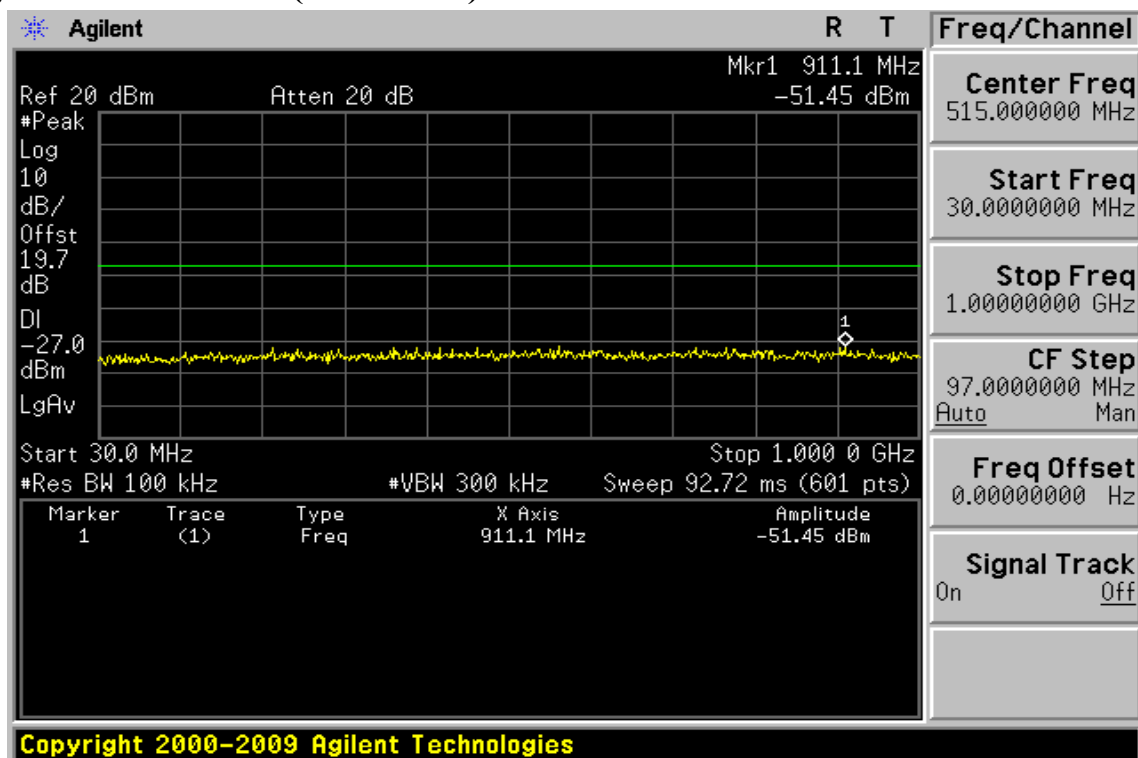


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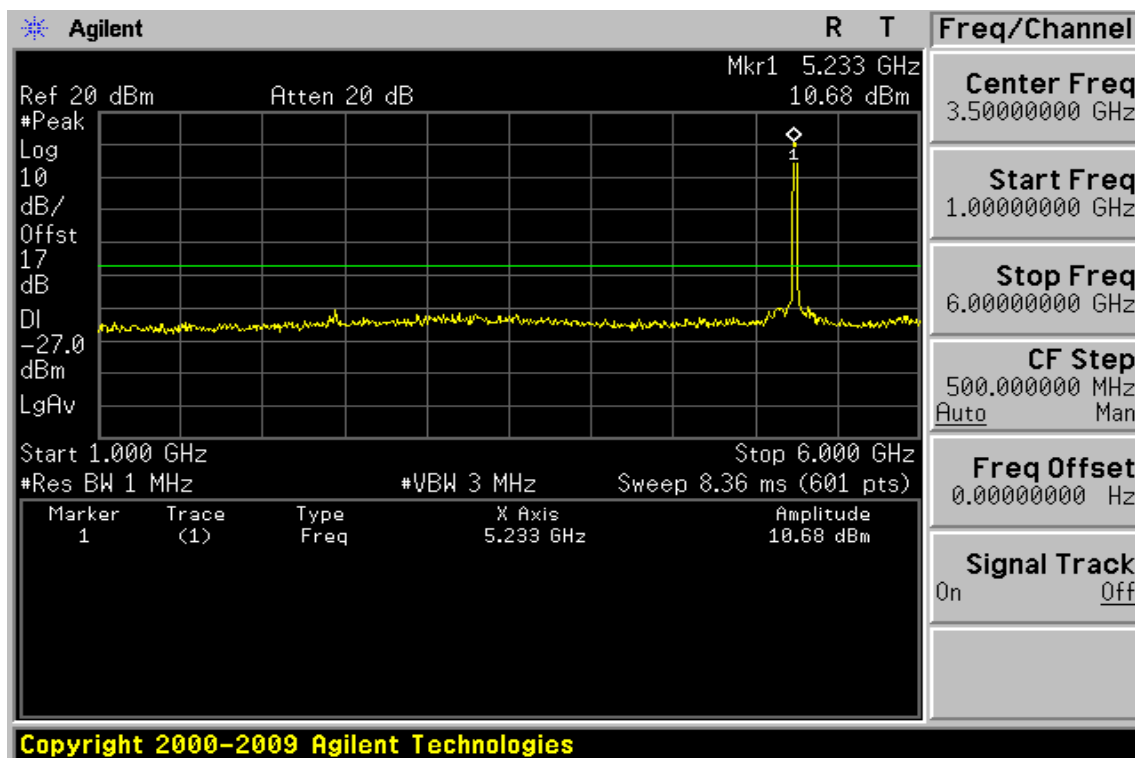
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Ch High 30MHz – 1GHz (5240 MHz)



Ch High 1GHz – 6GHz

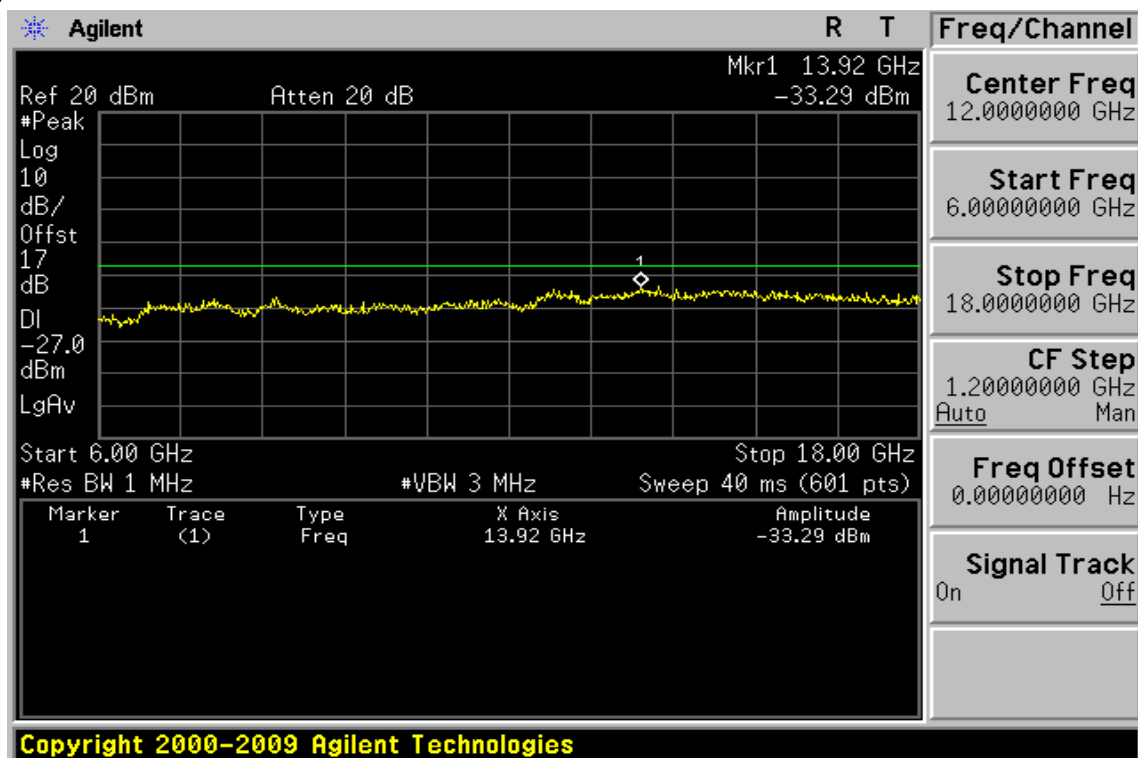


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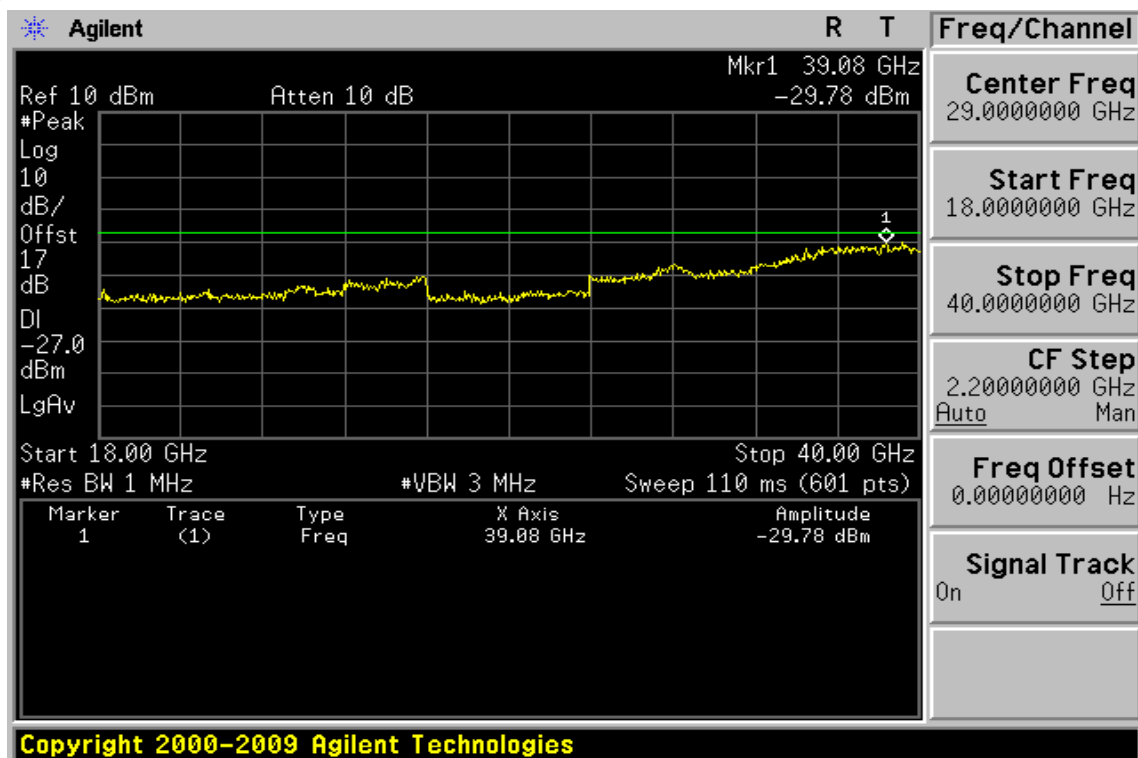
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Ch High 6GHz – 18GHz



Ch High 18GHz – 40GHz

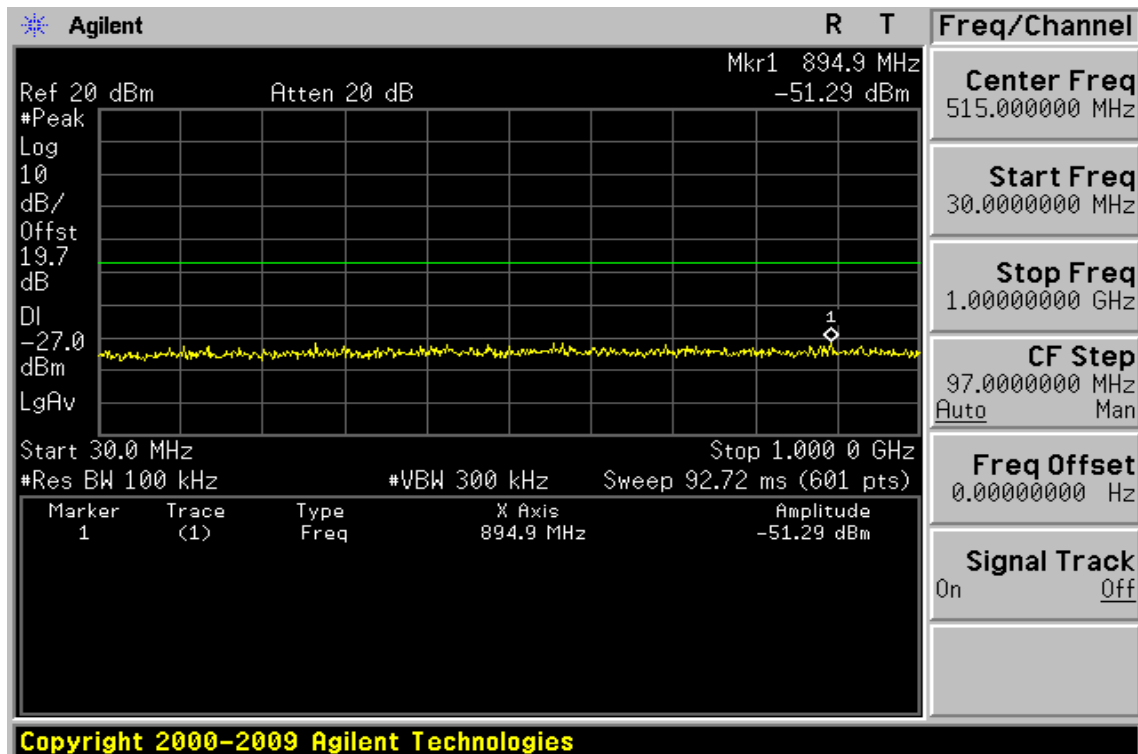


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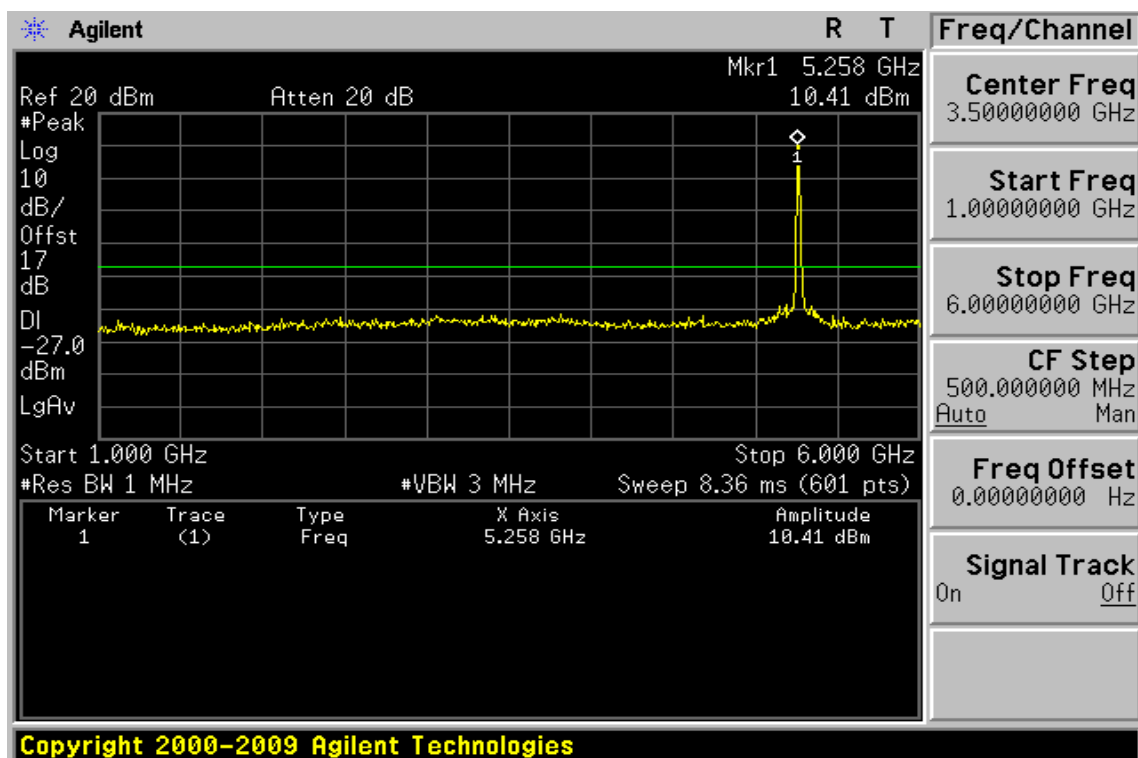
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802.11n HT20, 5250~5350 MHz Ch Low 30MHz – 1GHz (5260 MHz)



Ch Low 1GHz – 6GHz

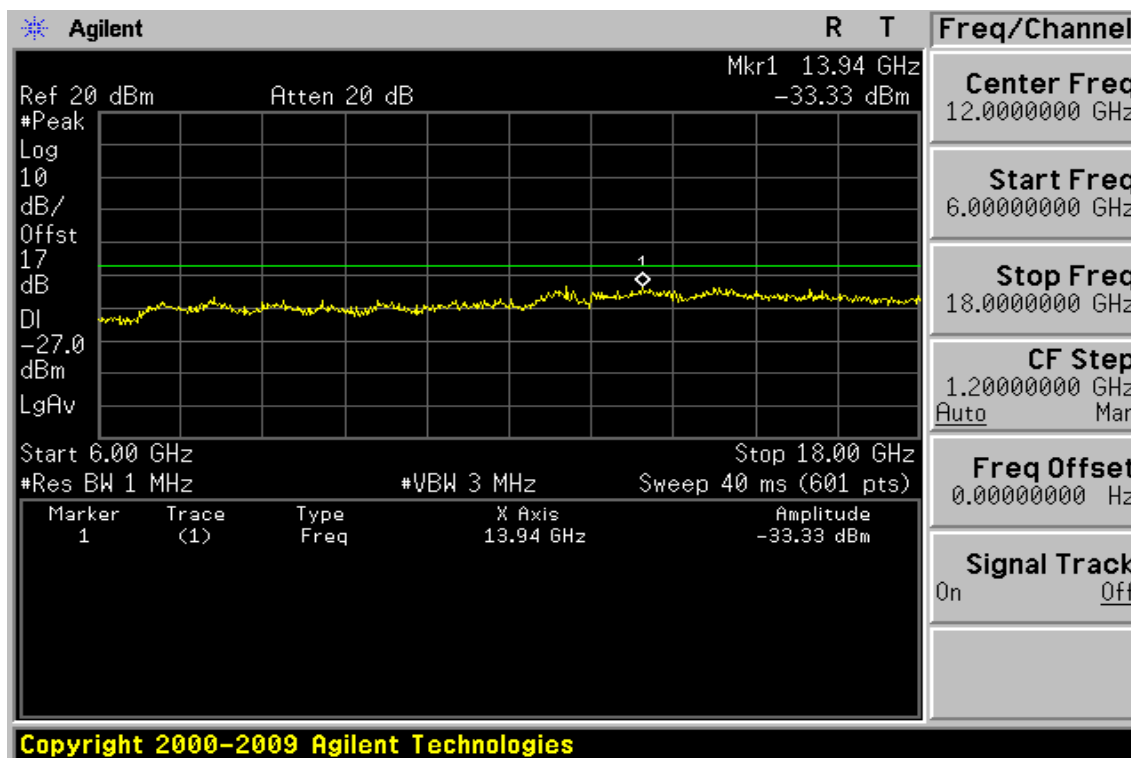


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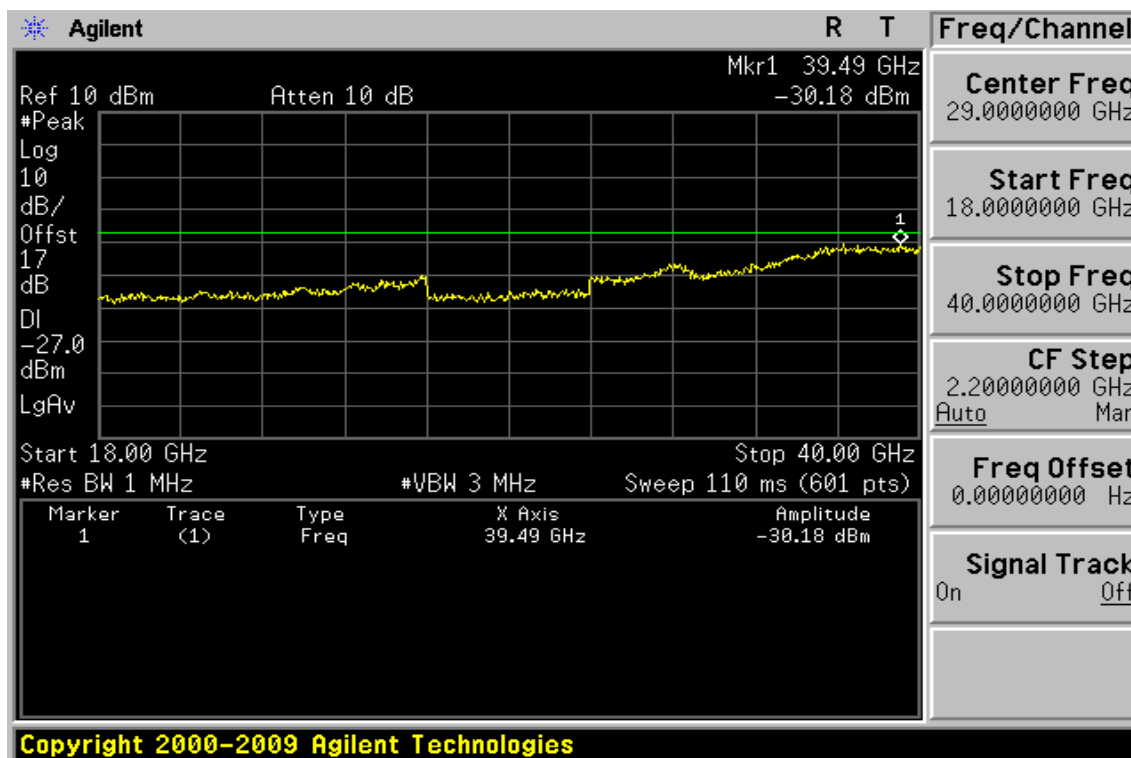
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Ch Low 6GHz – 18GHz



Ch Low 18GHz – 40GHz

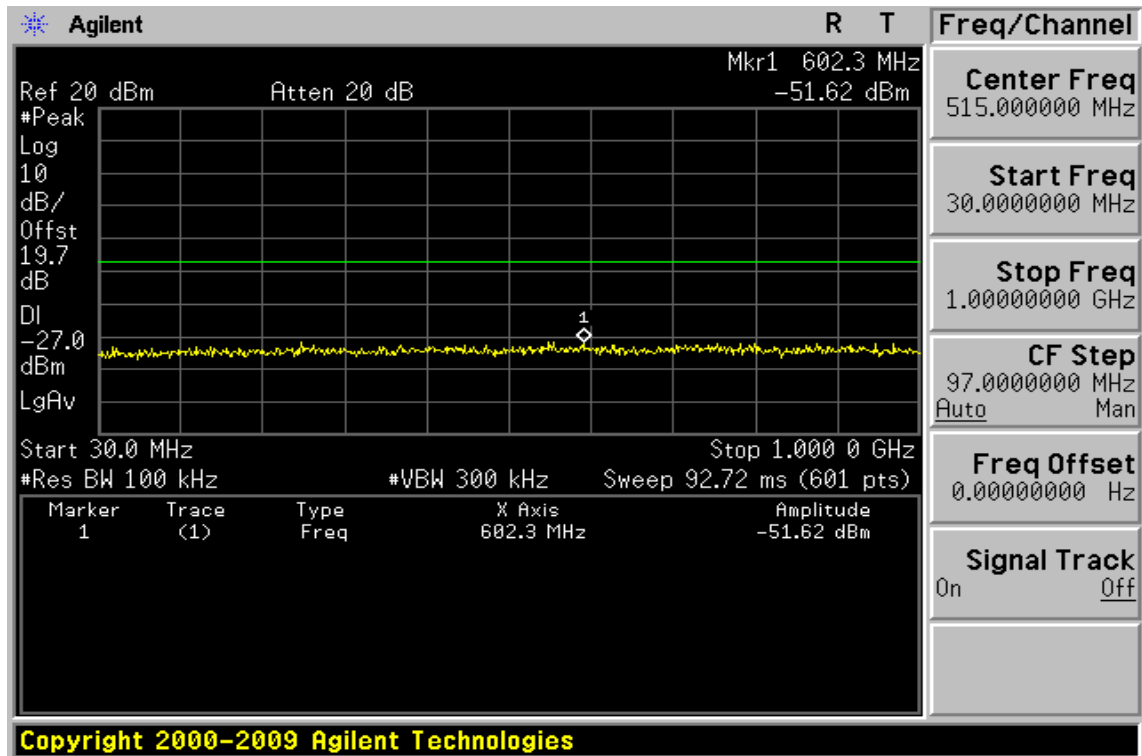


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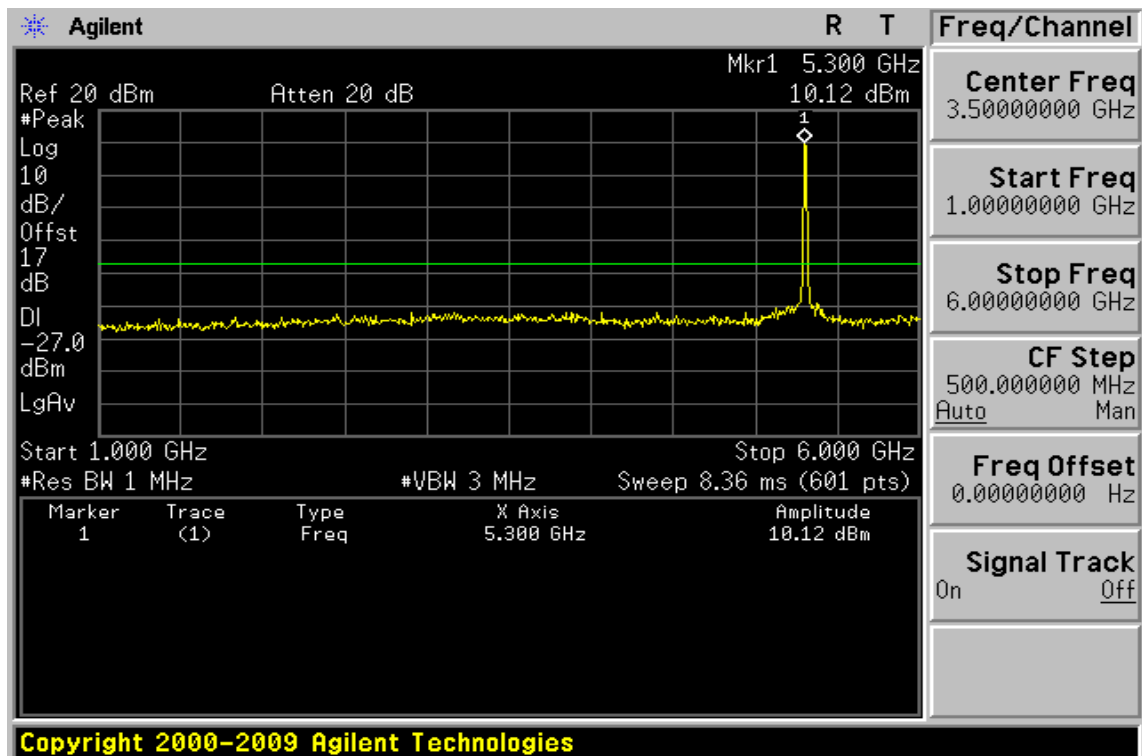
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Ch Mid 30MHz – 1GHz (5300 MHz)



Ch Mid 1GHz – 6GHz

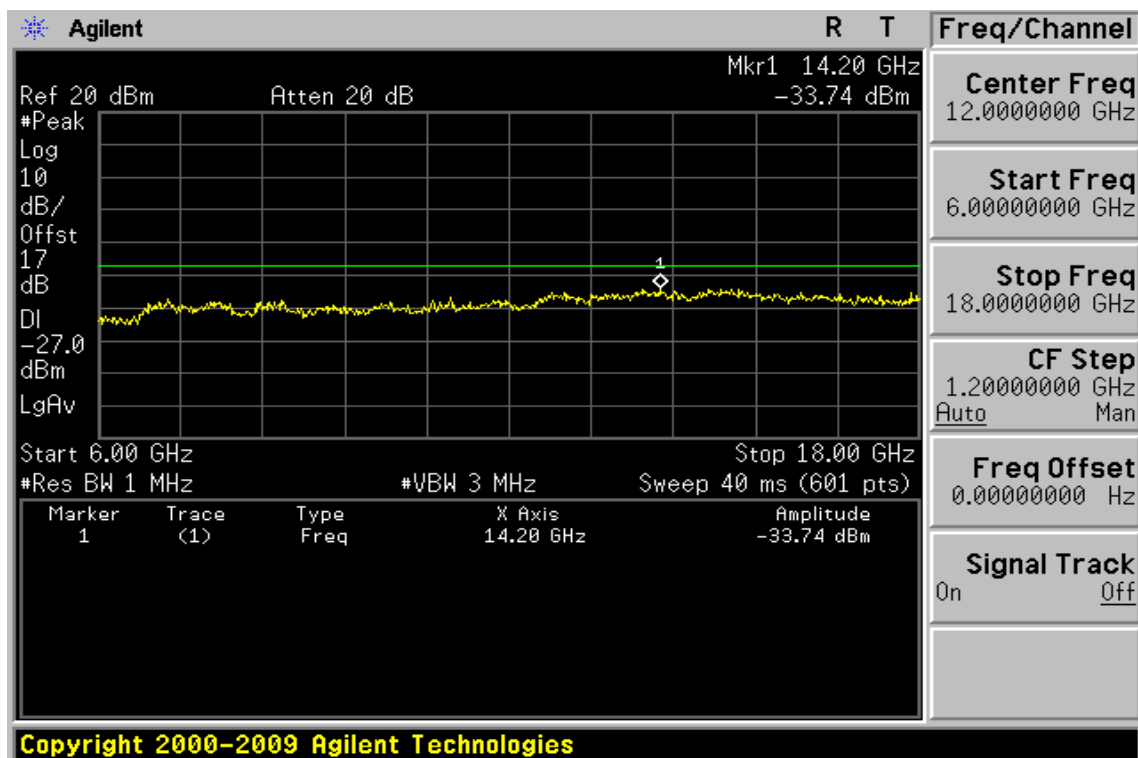


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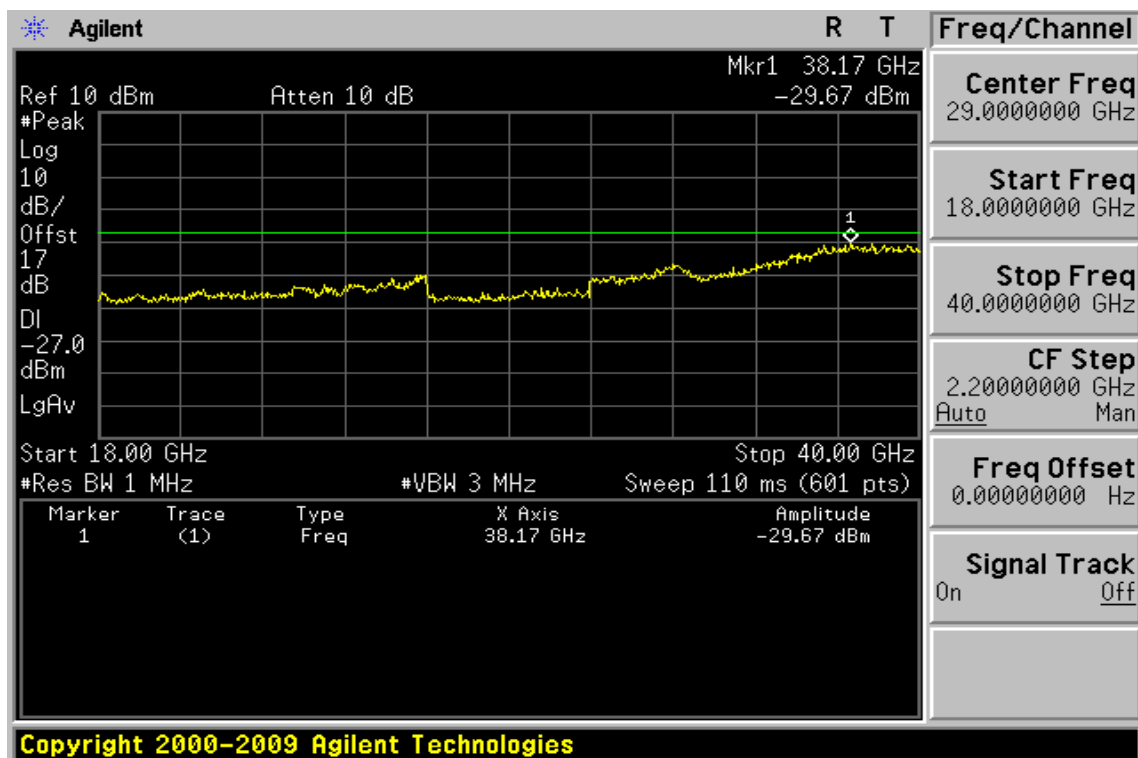
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Ch Mid 6GHz – 18GHz



Ch Mid 18GHz – 40GHz

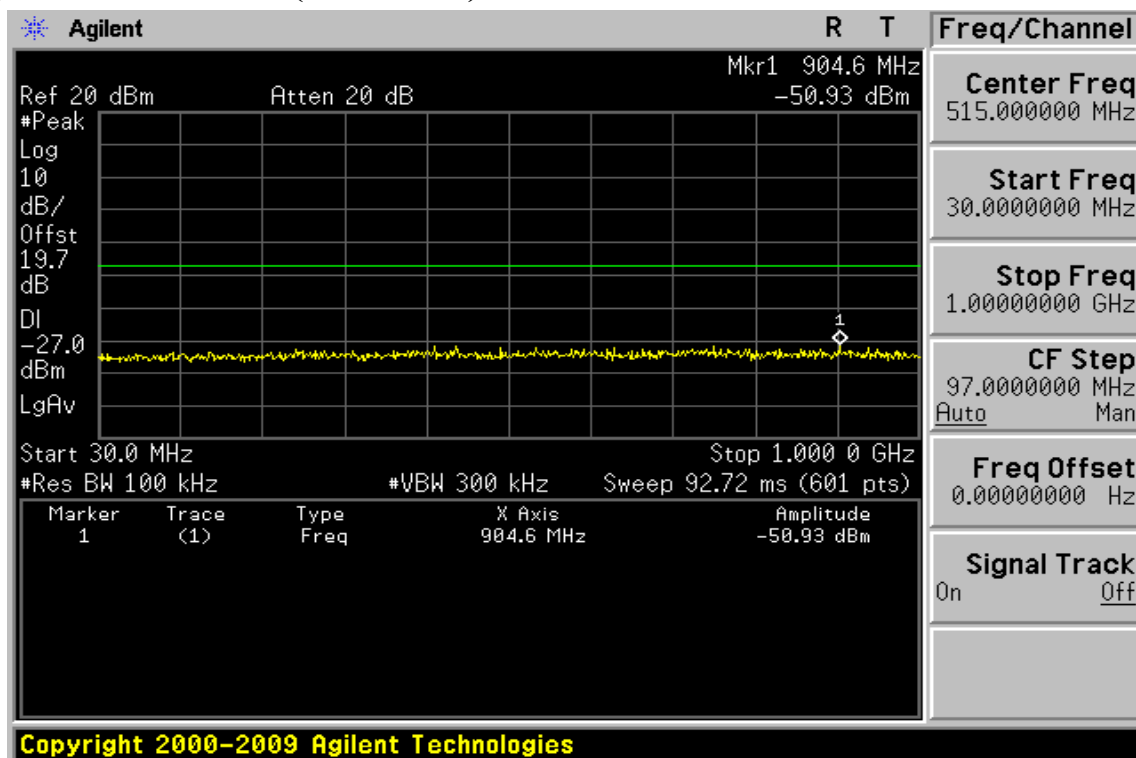


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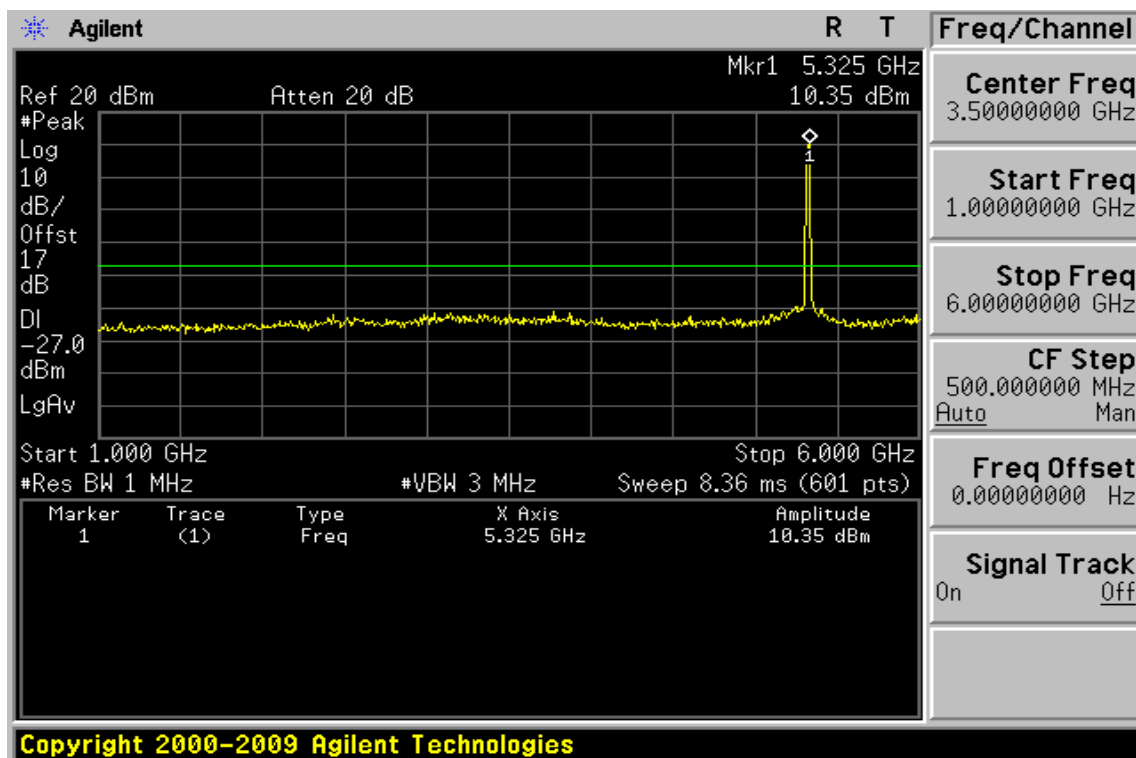
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Ch High 30MHz – 1GHz (5320 MHz)



Ch High 1GHz – 6GHz

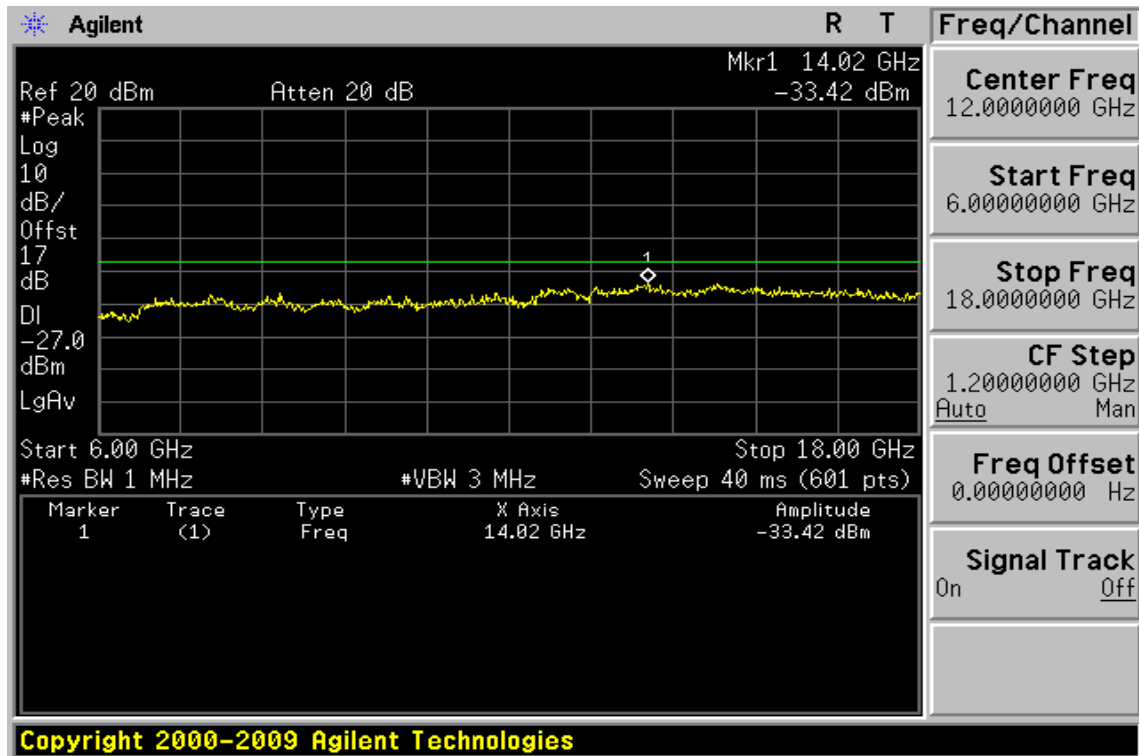


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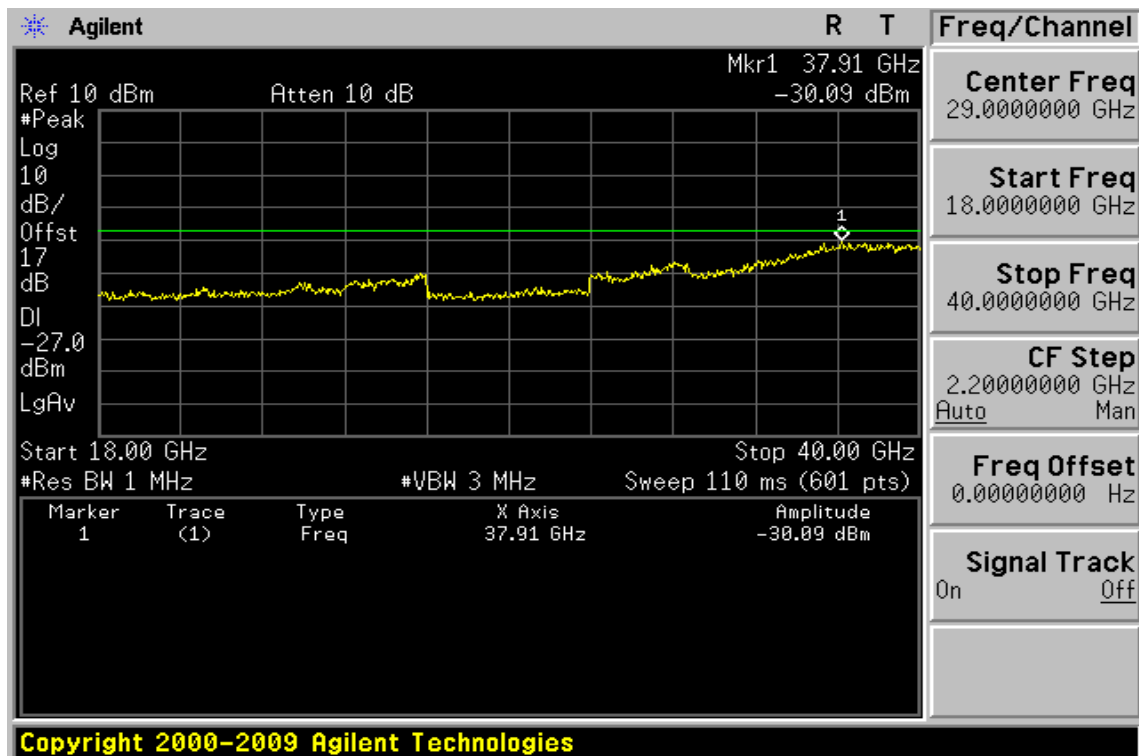
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Ch High 6GHz – 18GHz



Ch High 18GHz – 40GHz



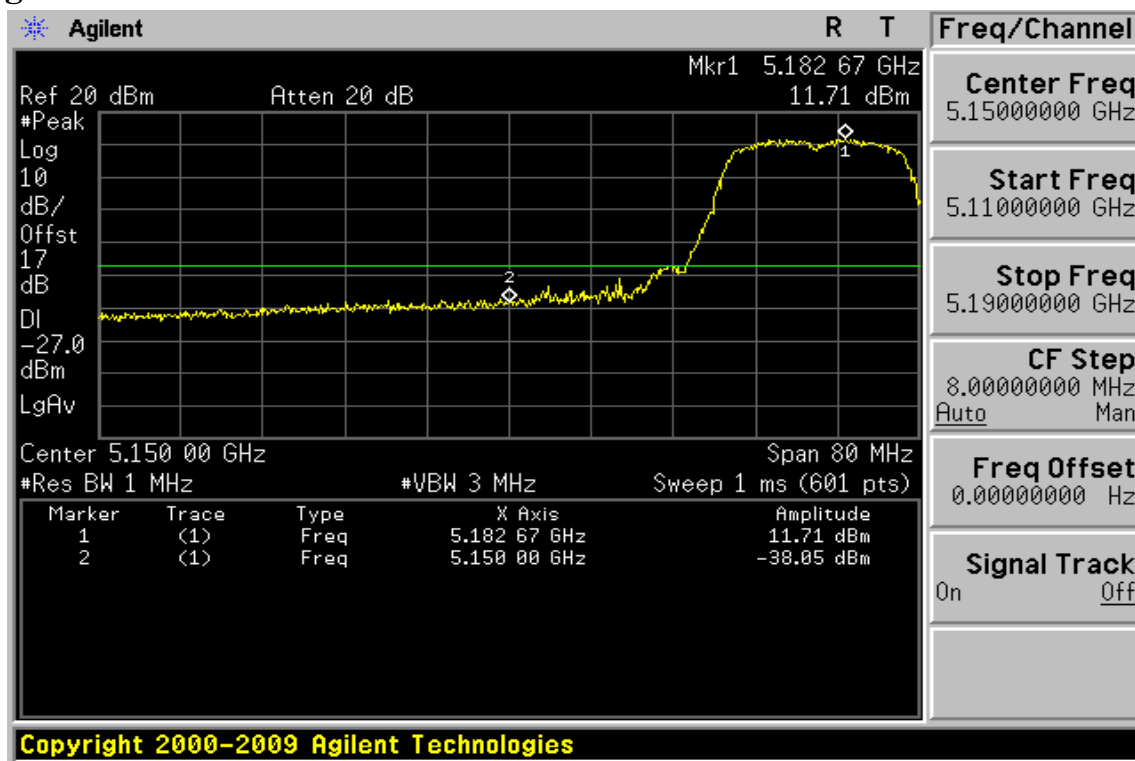
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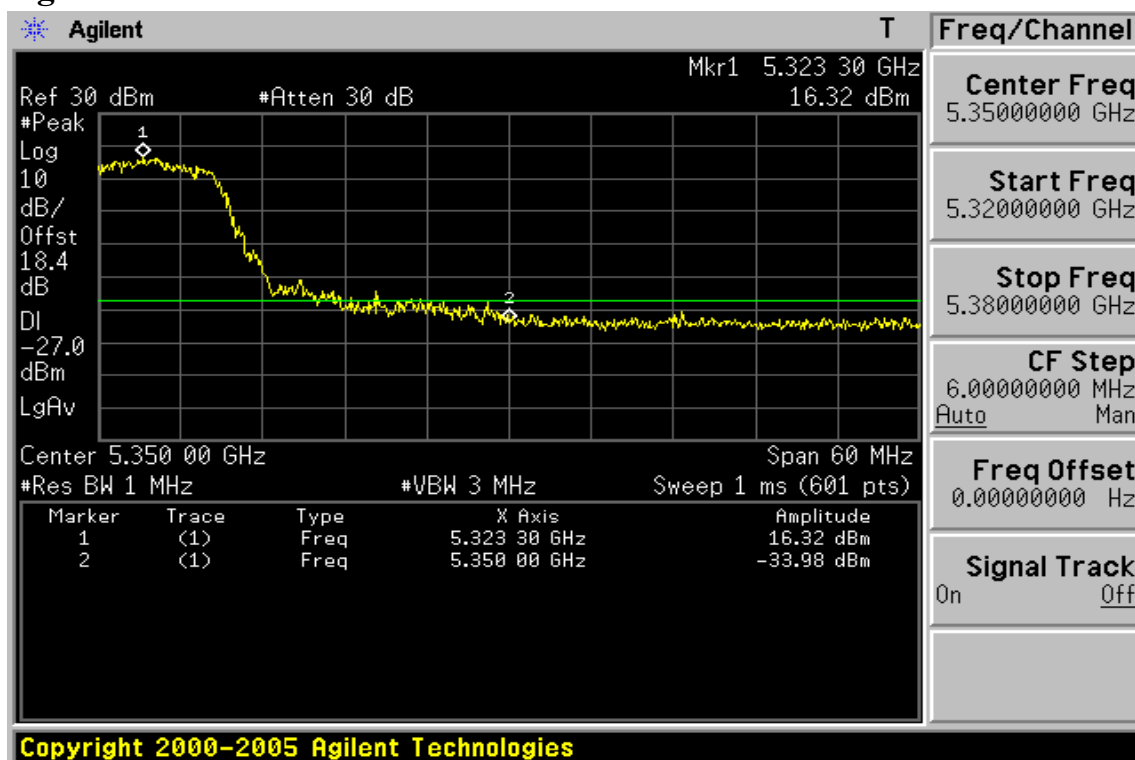
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802.11n HT20 5150~5350 MHz

Band Edges Test Data CH 5150



Band Edges Test Data CH 5350



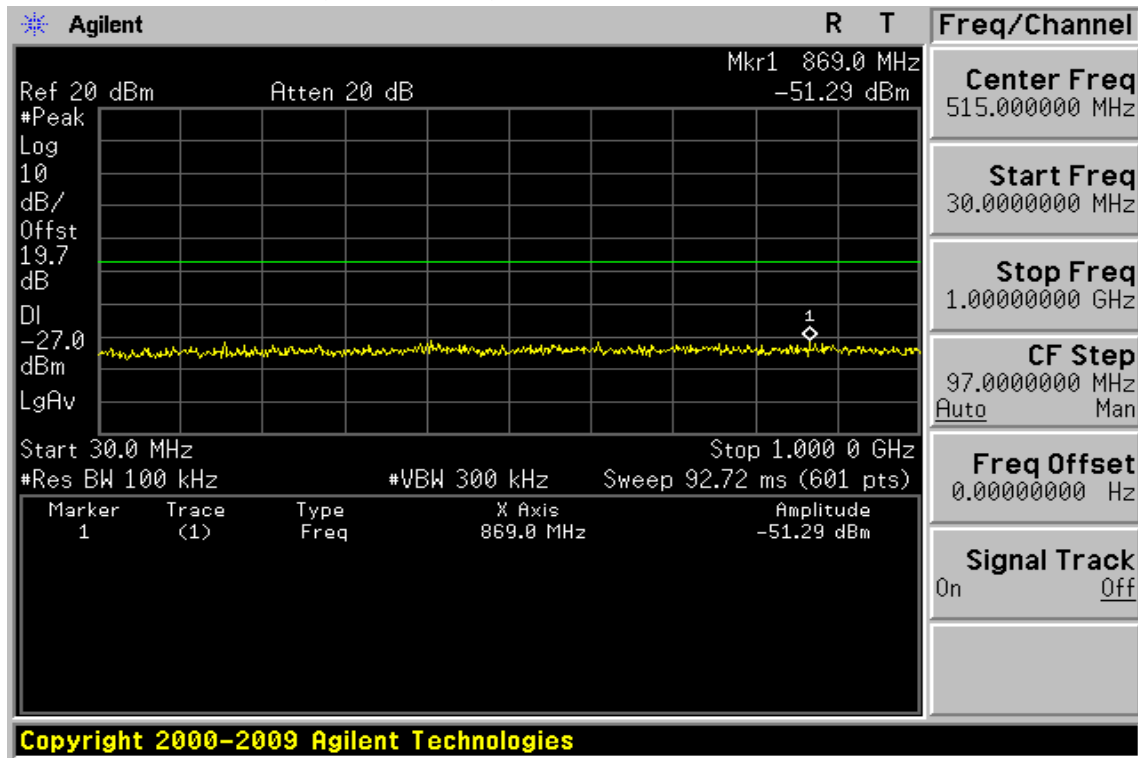
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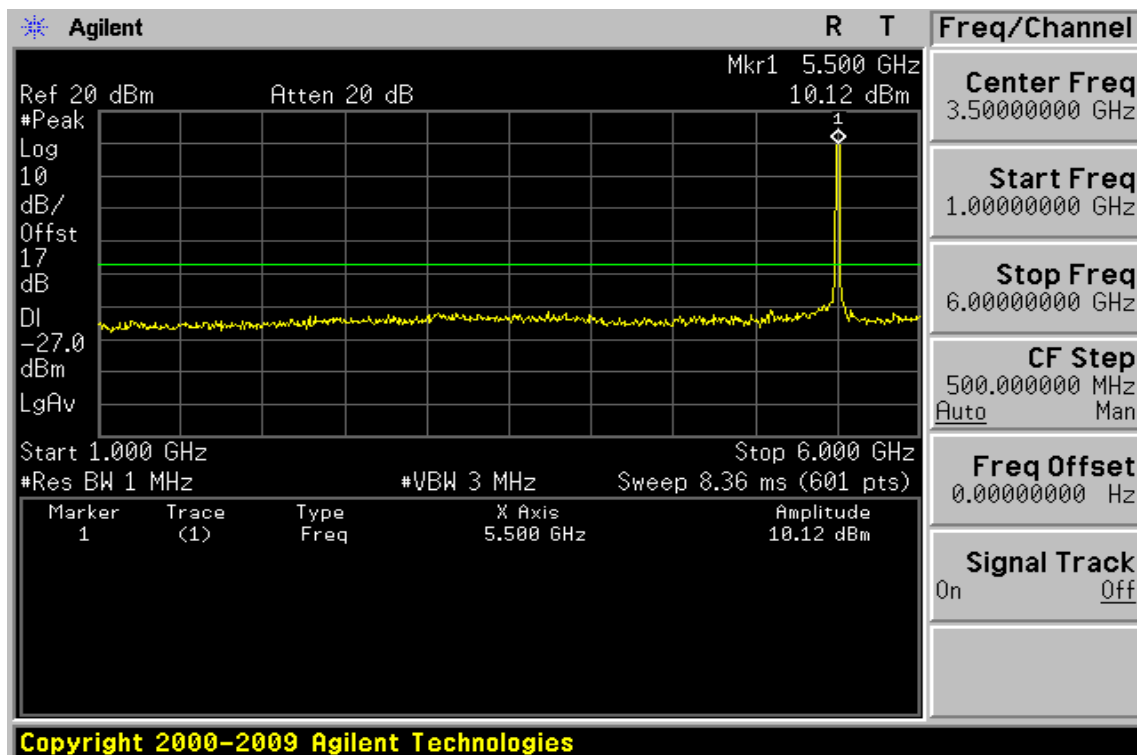
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802.11n HT20, 5470~5725 MHz

Ch Low 30MHz – 1GHz (5500 MHz)



Ch Low 1GHz – 6GH

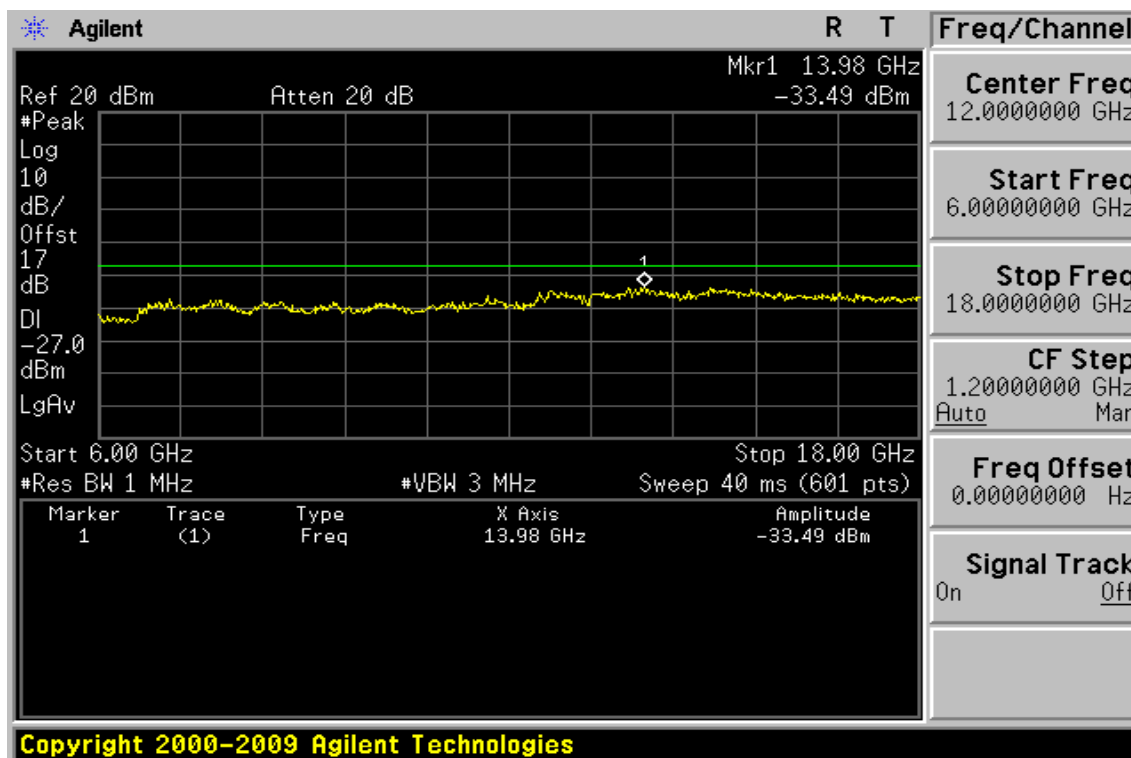


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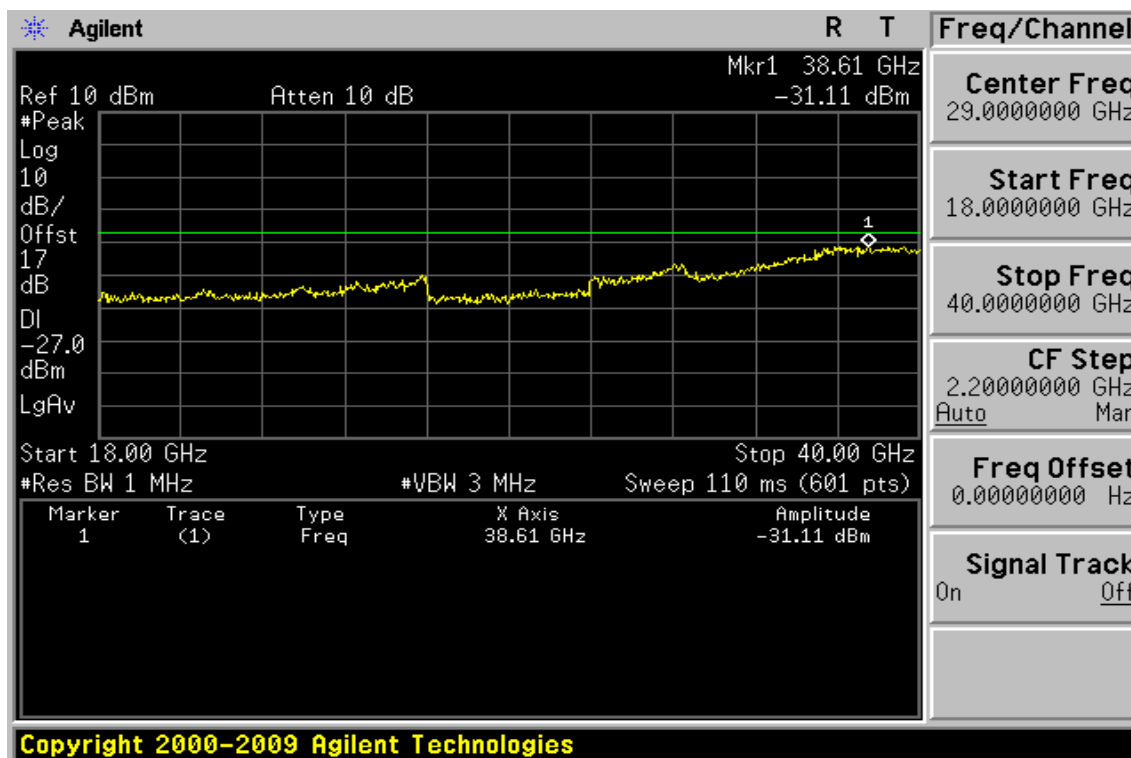
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Ch Low 6GHz – 18GHz



Ch Low 18GHz – 40GHz

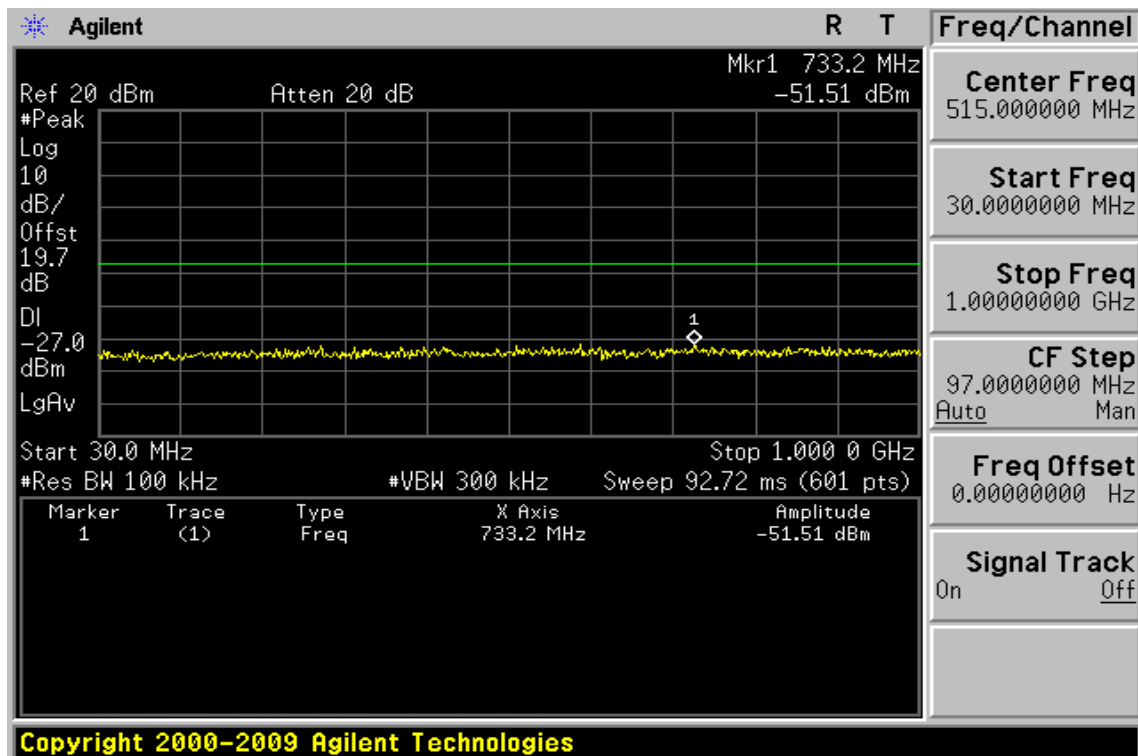


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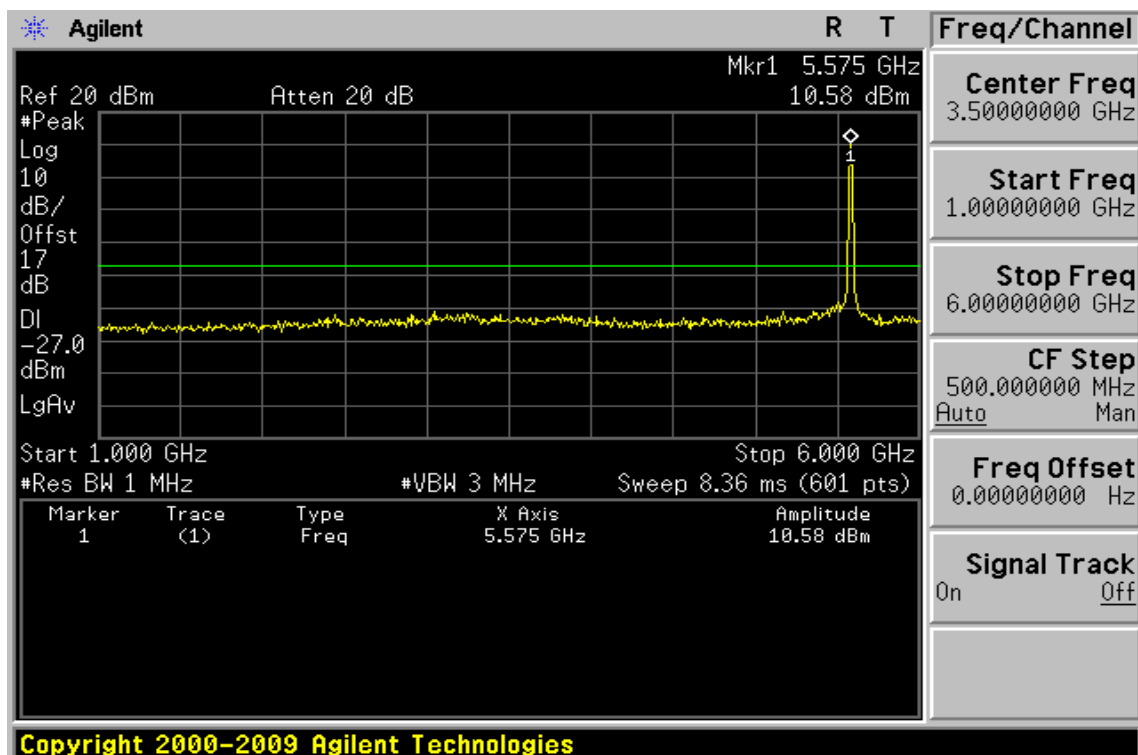
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Ch Mid 30MHz – 1GHz (5580 MHz)



Ch Mid 1GHz – 6GHz

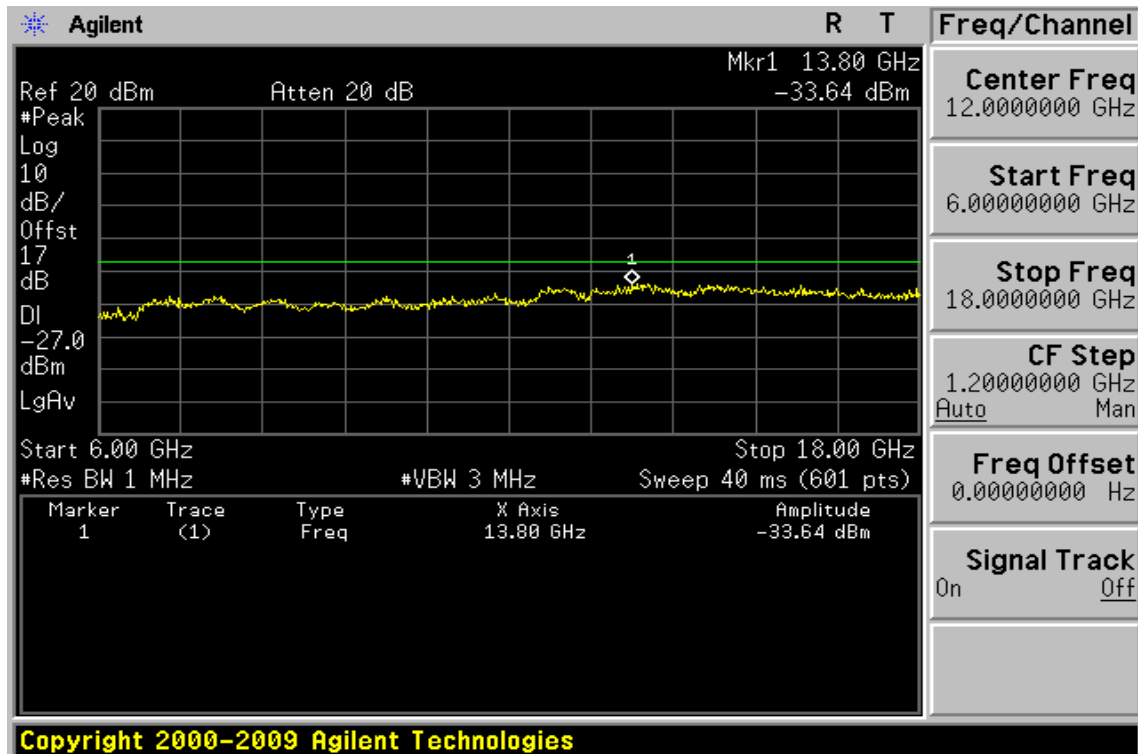


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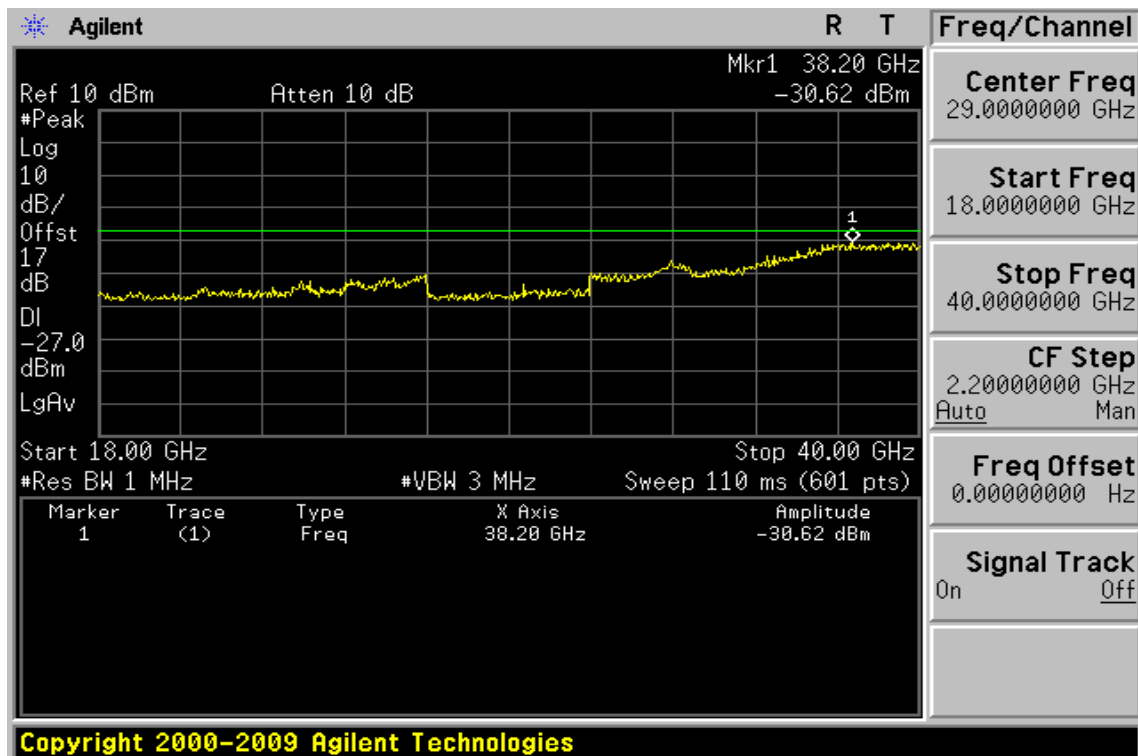
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Ch Mid 6GHz – 18GHz



Ch Mid 18GHz – 40GHz

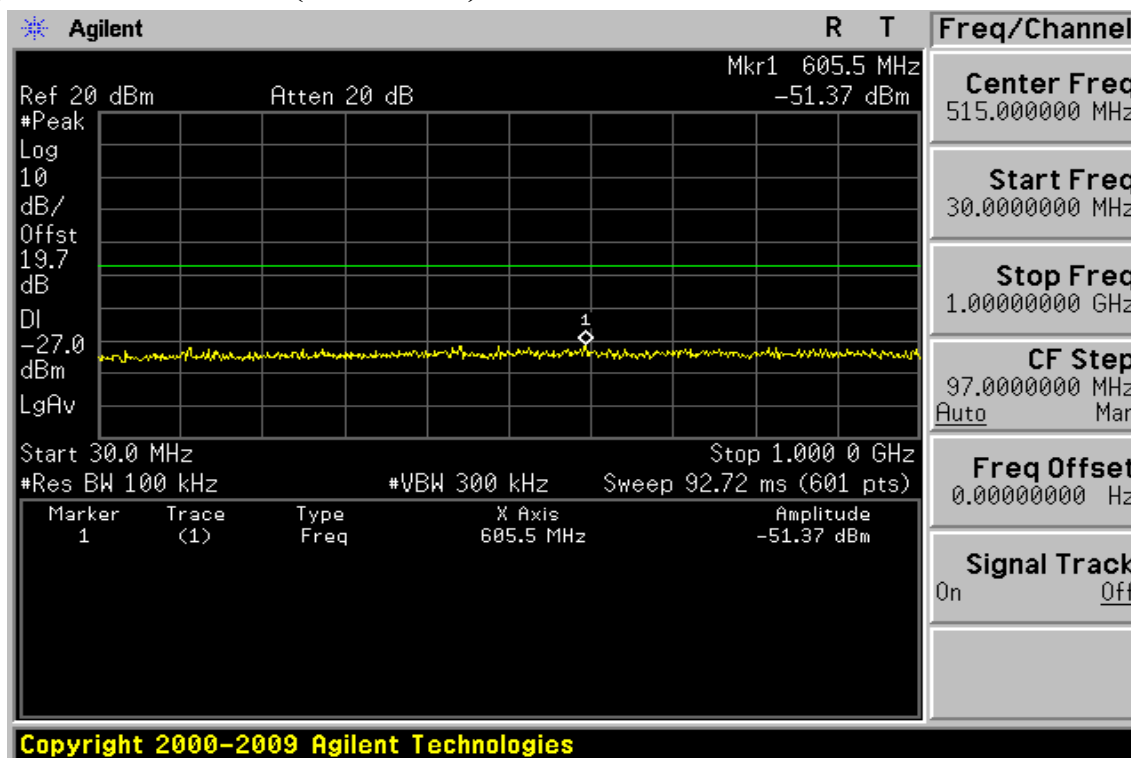


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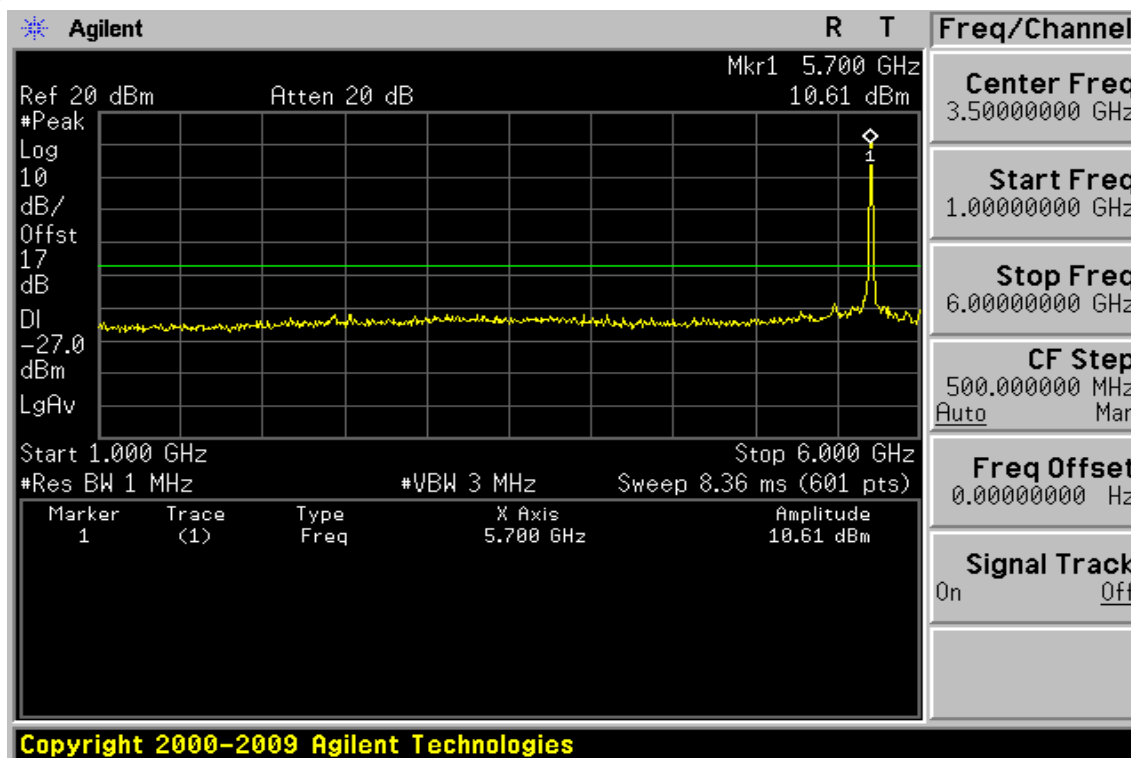
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Ch High 30MHz – 1GHz (5700 MHz)



Ch High 1GHz – 6GHz

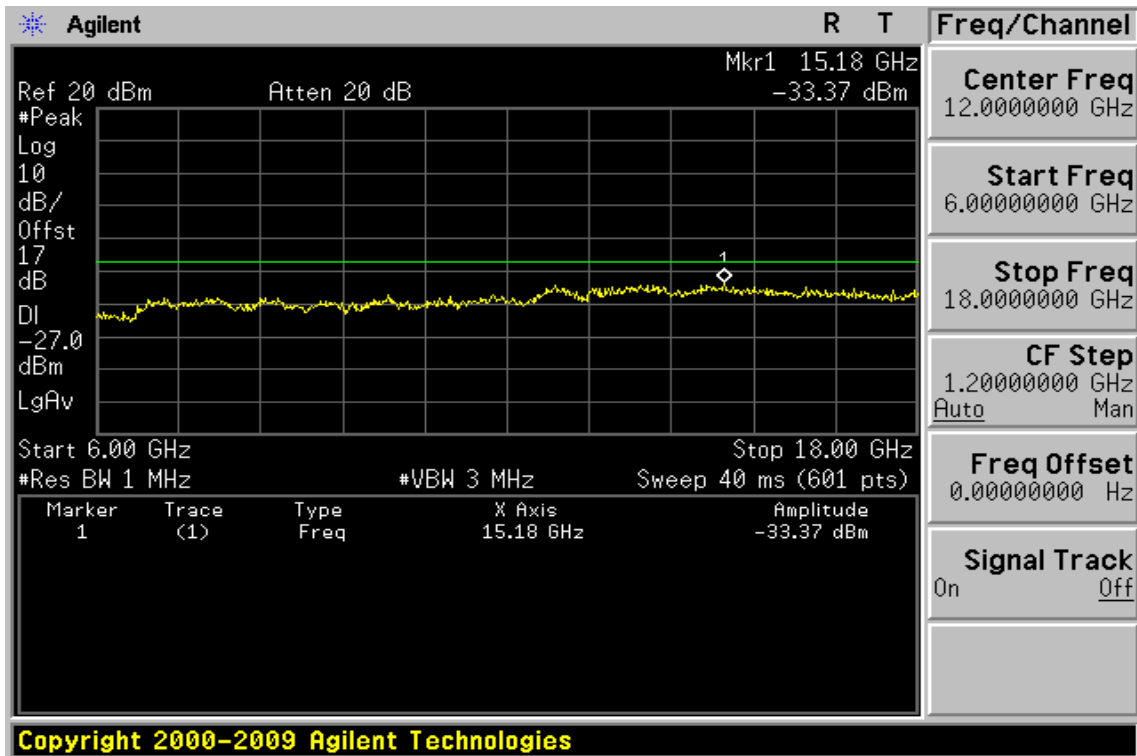


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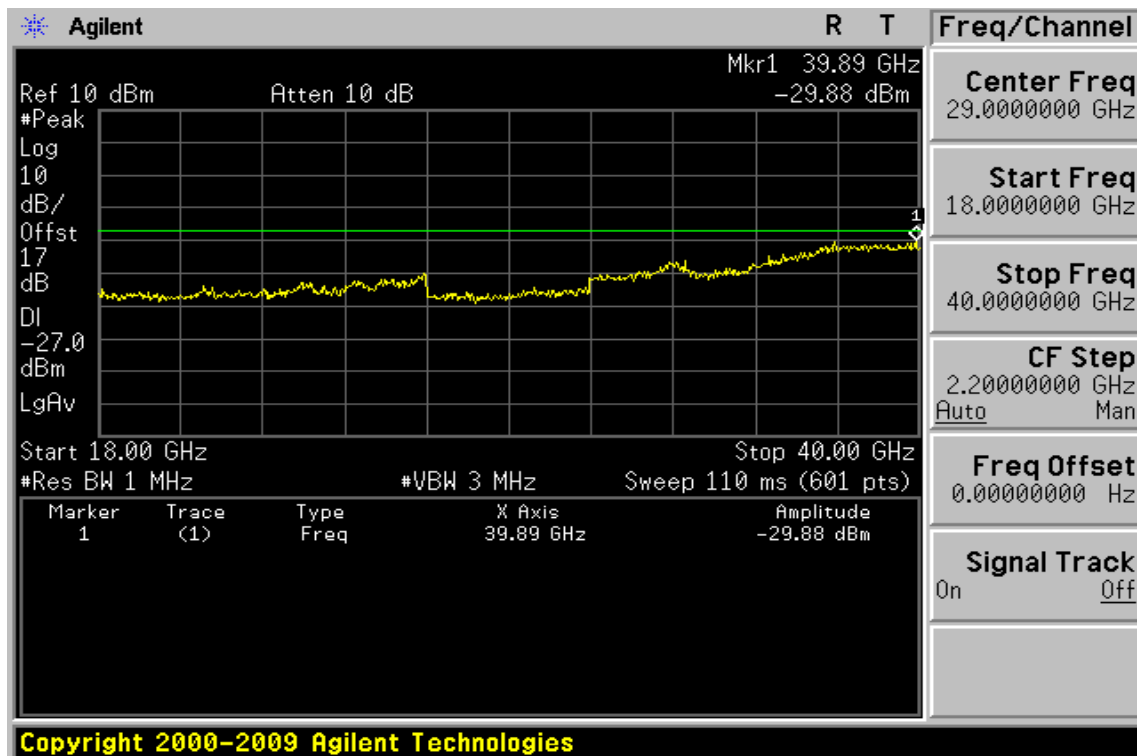
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Ch High 6GHz – 18GHz



Ch High 18GHz – 40GHz

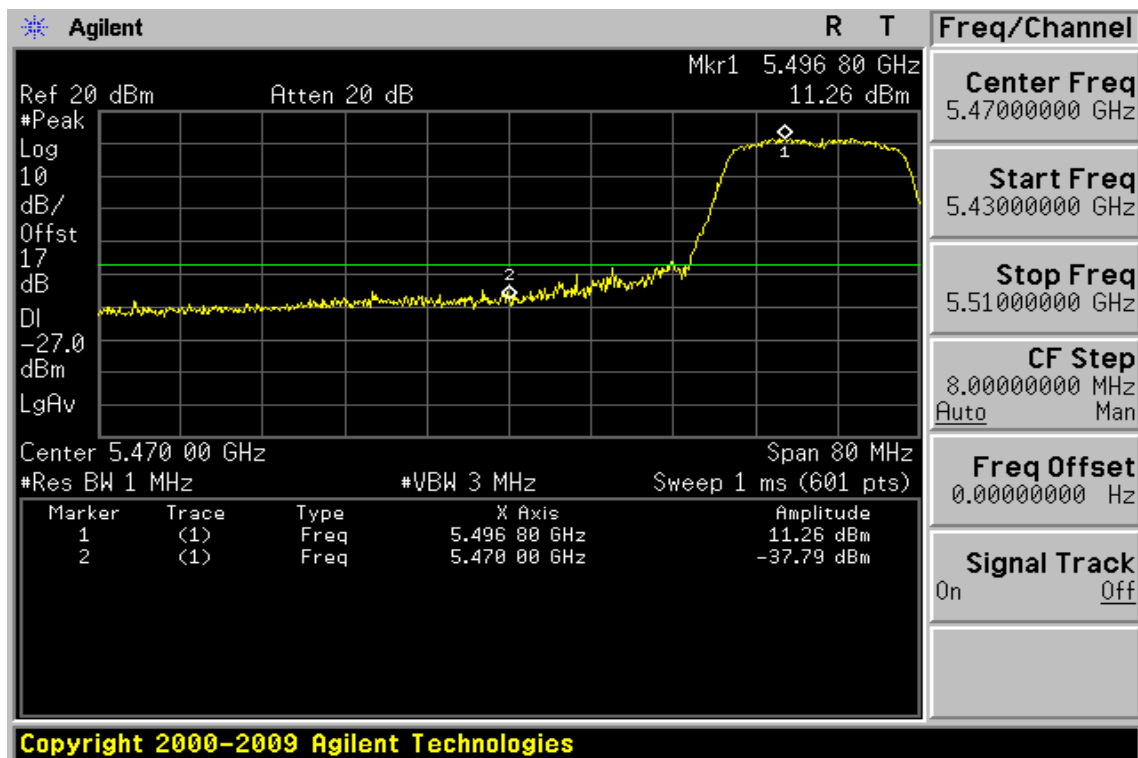


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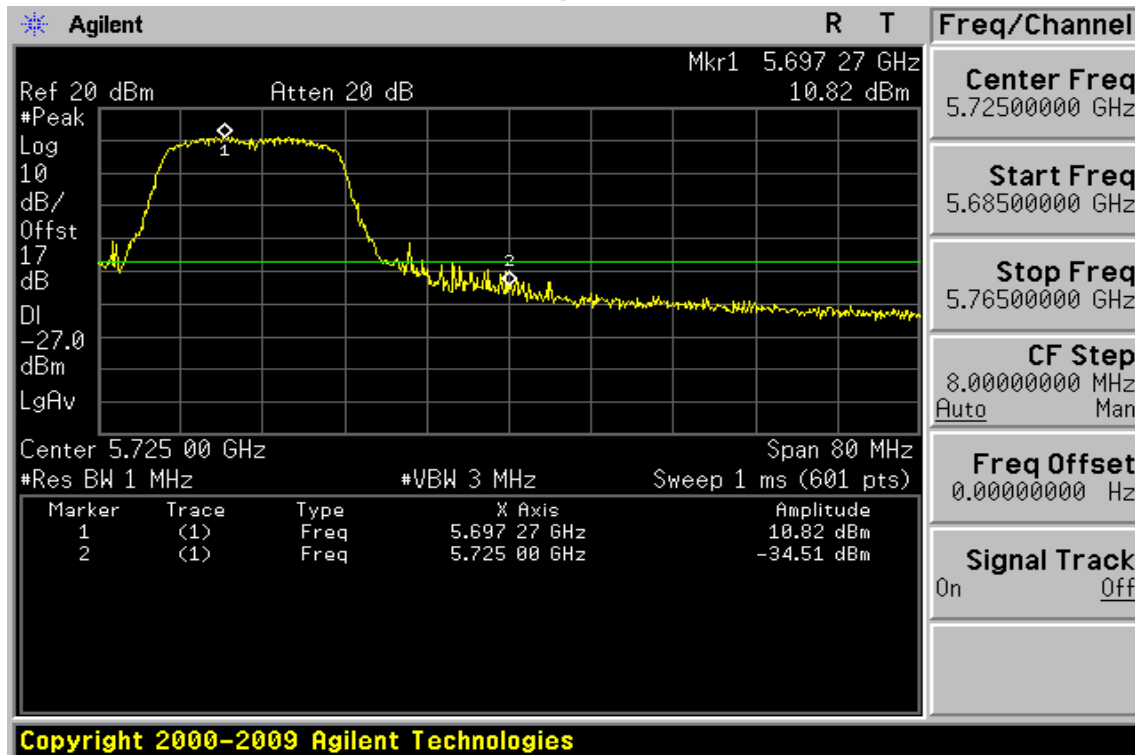
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802.11n HT20 5470~5725 MHz Band Edges Test Data CH 5500



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



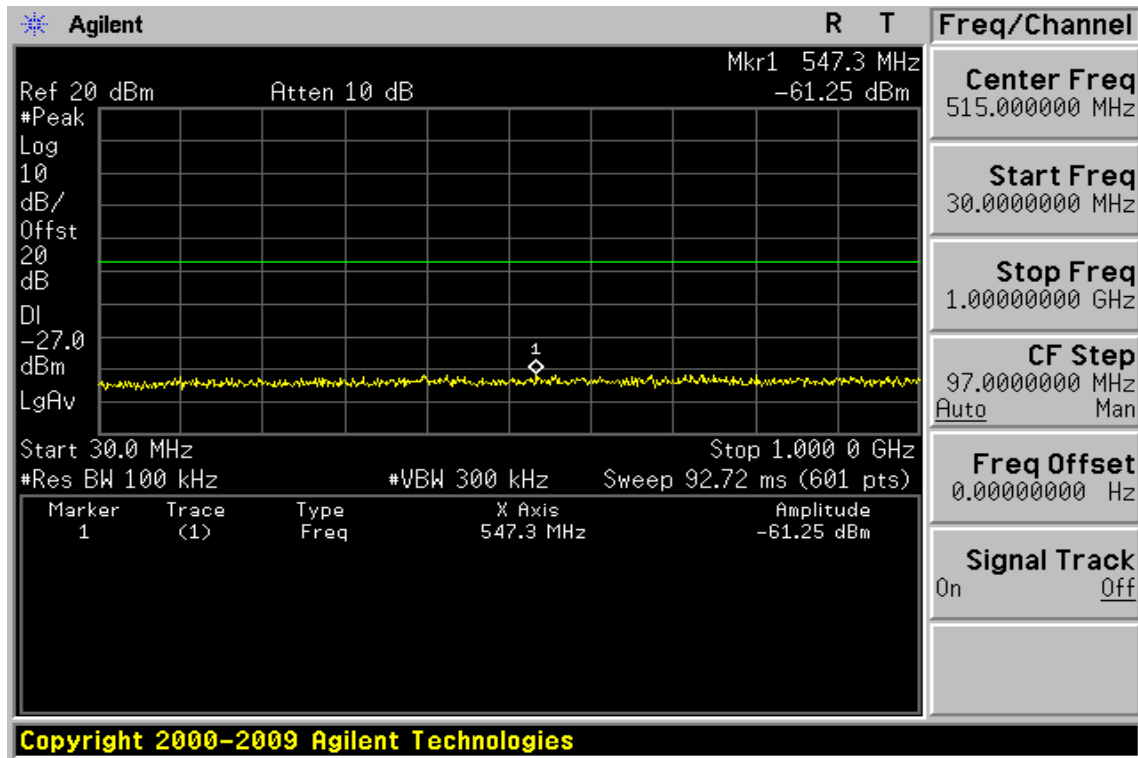
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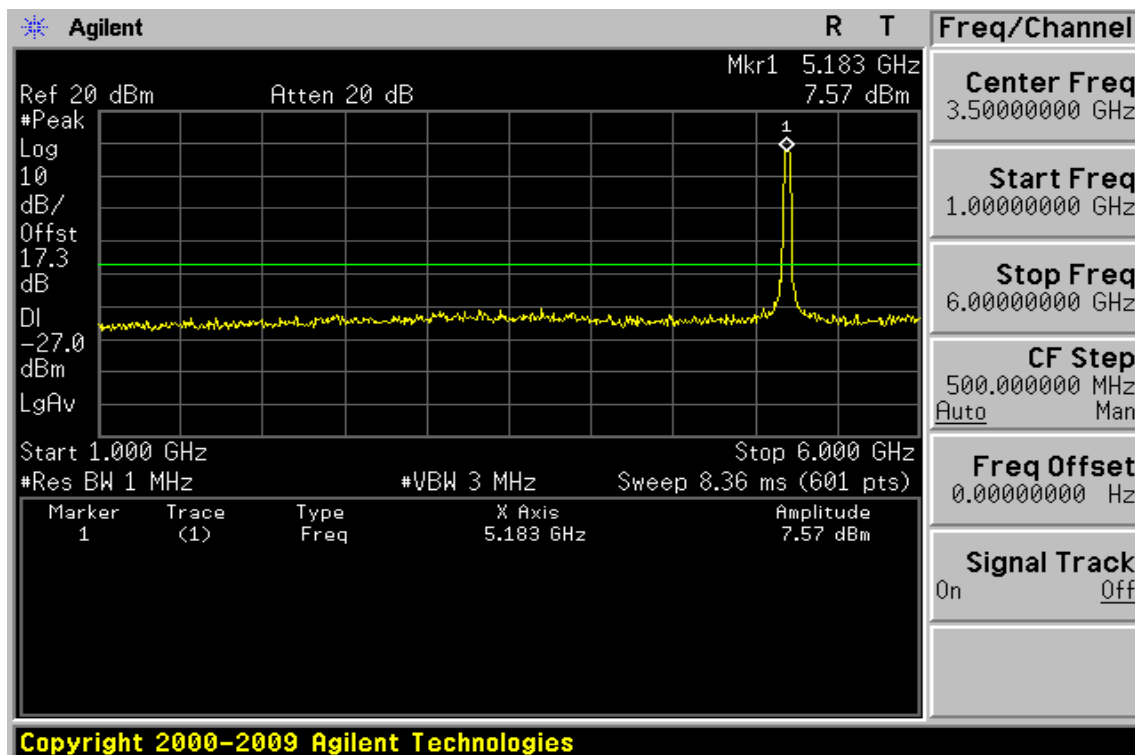
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802.11n HT40, 5150~5250 MHz

Ch Low 30MHz – 1GHz (5190 MHz)



Ch Low 1GHz – 6GHz

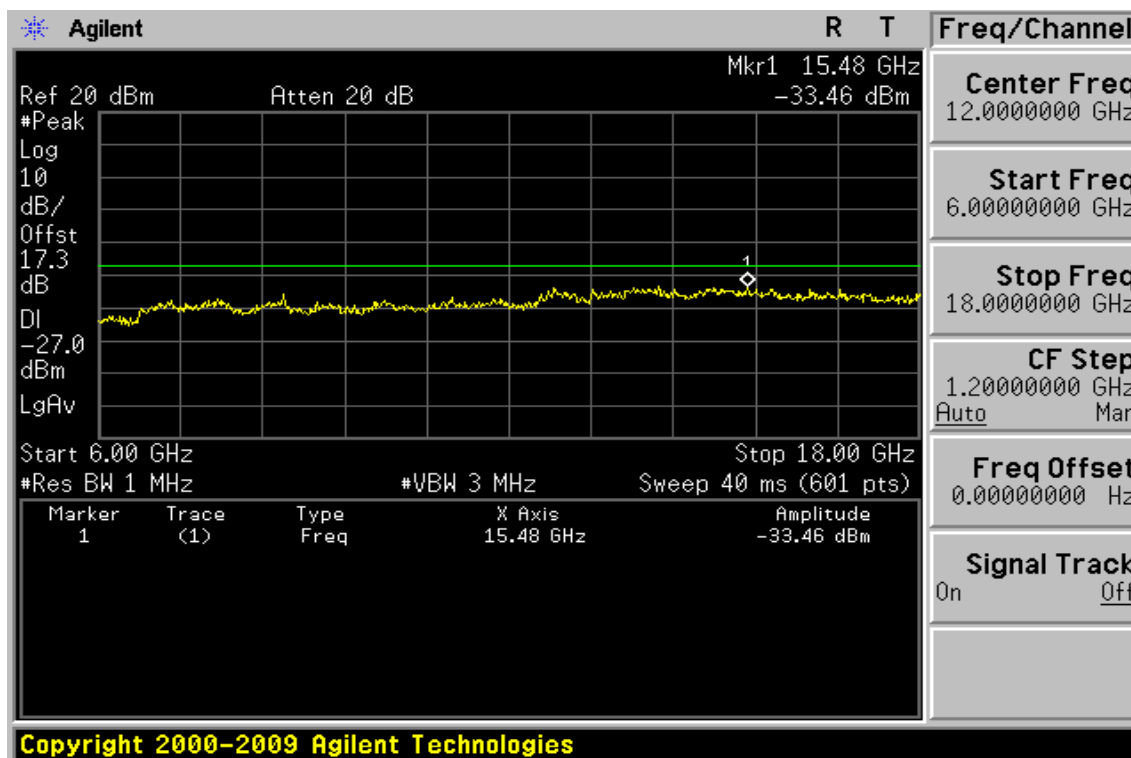


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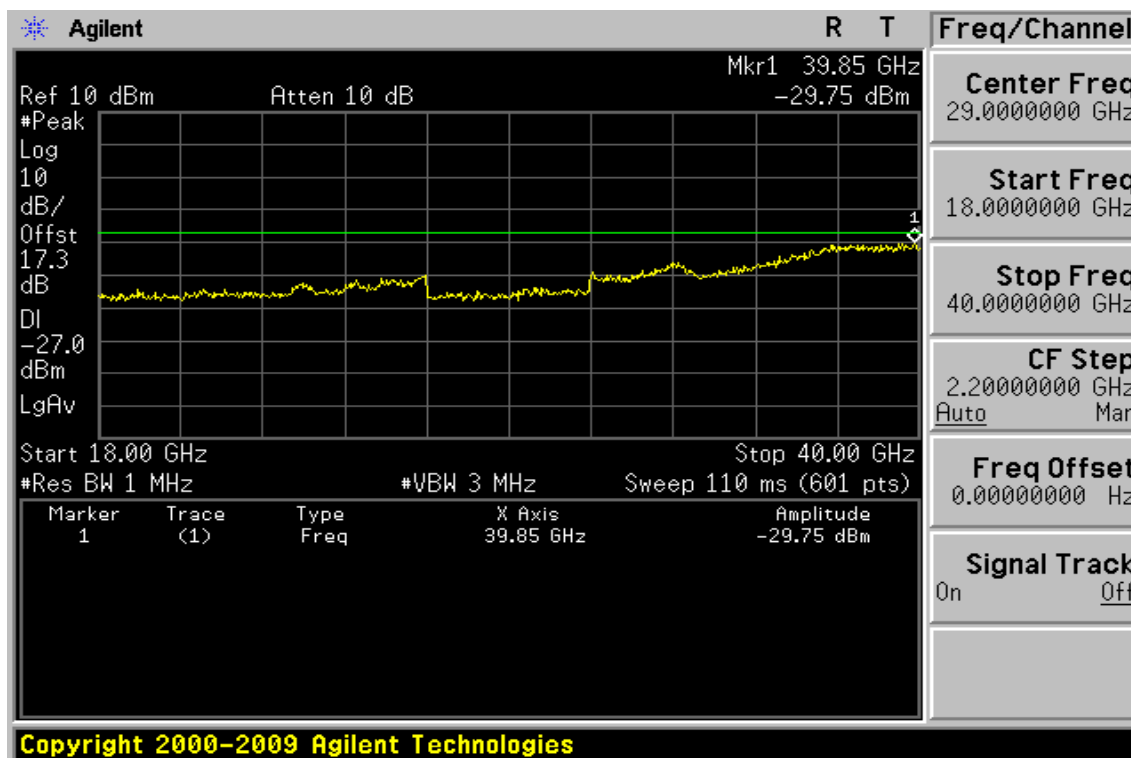
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Ch Low 6GHz – 18GHz



Ch Low 18GHz – 40GHz

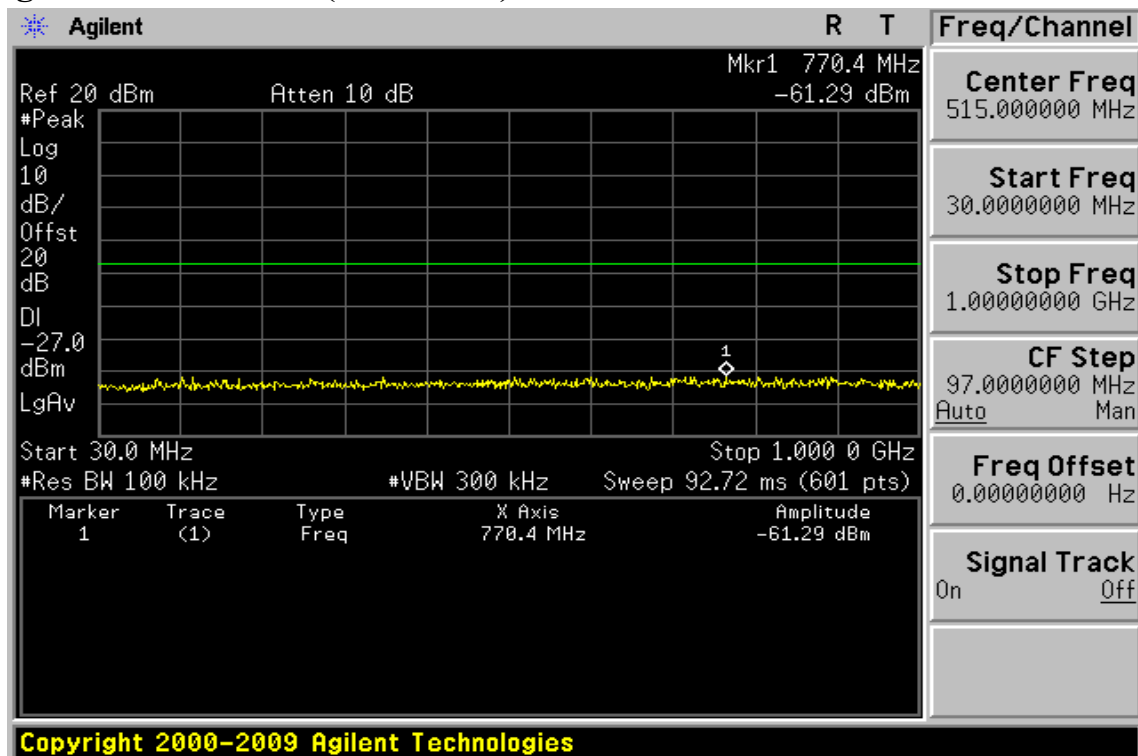


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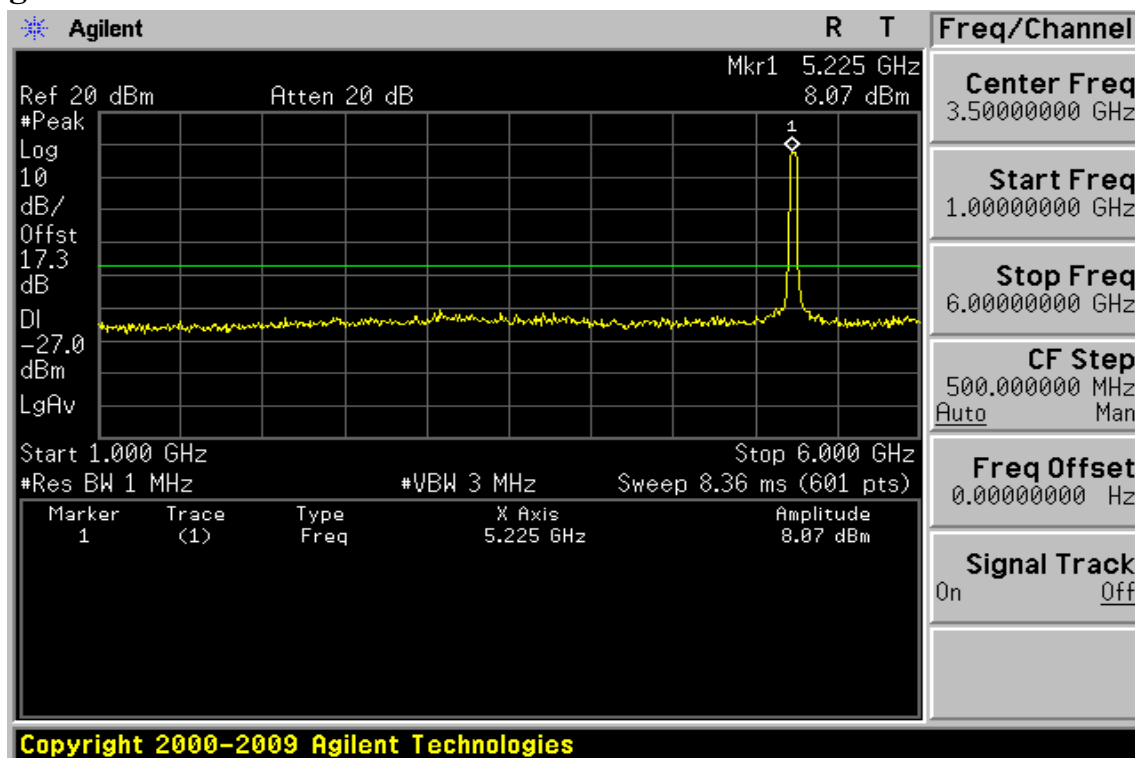
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Ch High 30MHz – 1GHz (5230 MHz)



Ch High 1GHz – 6GHz

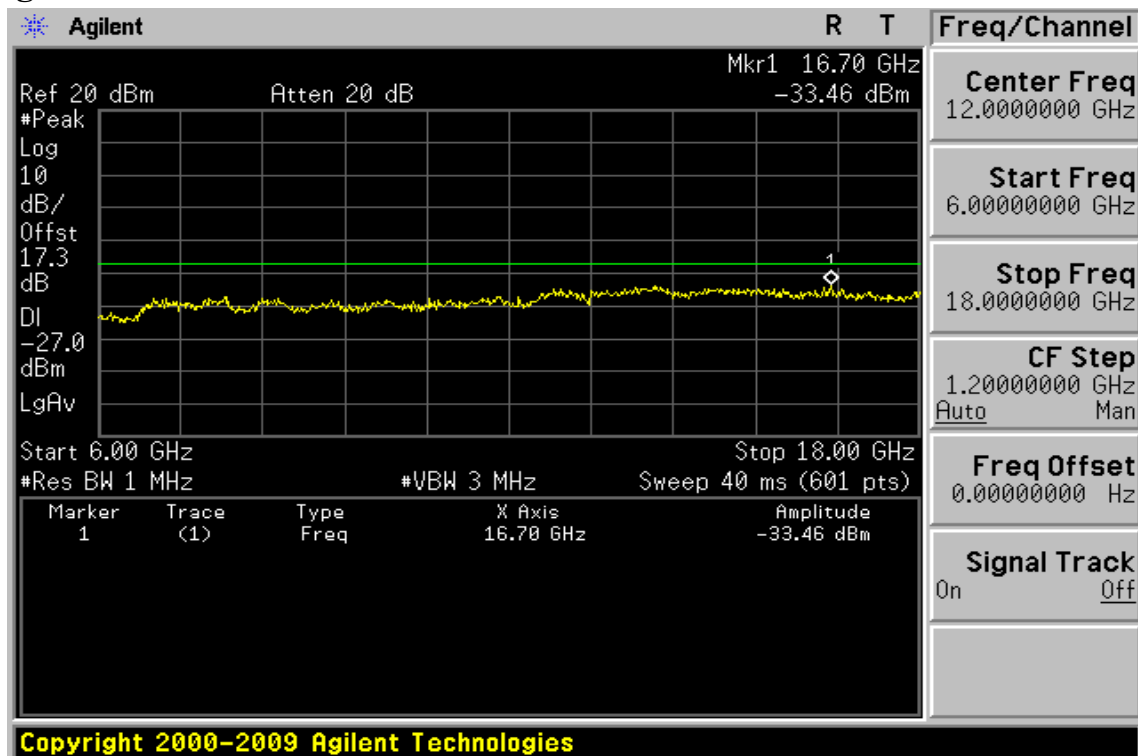


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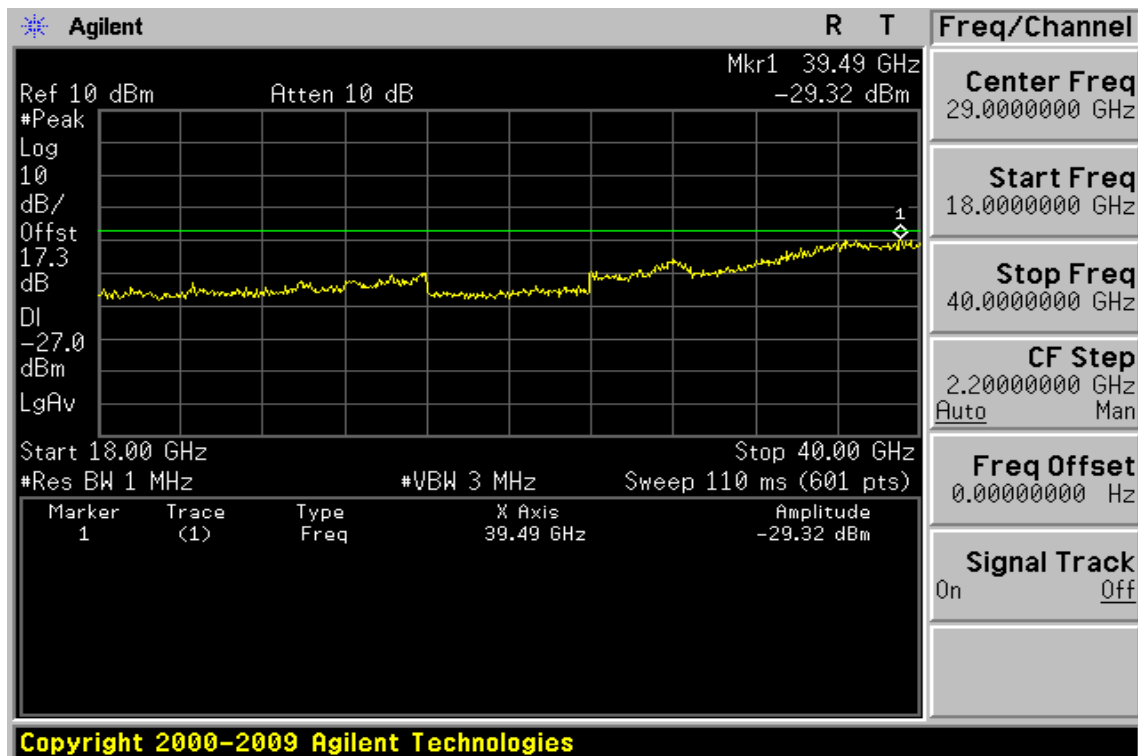
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Ch High 6GHz – 18GHz



Ch High 18GHz – 40GHz



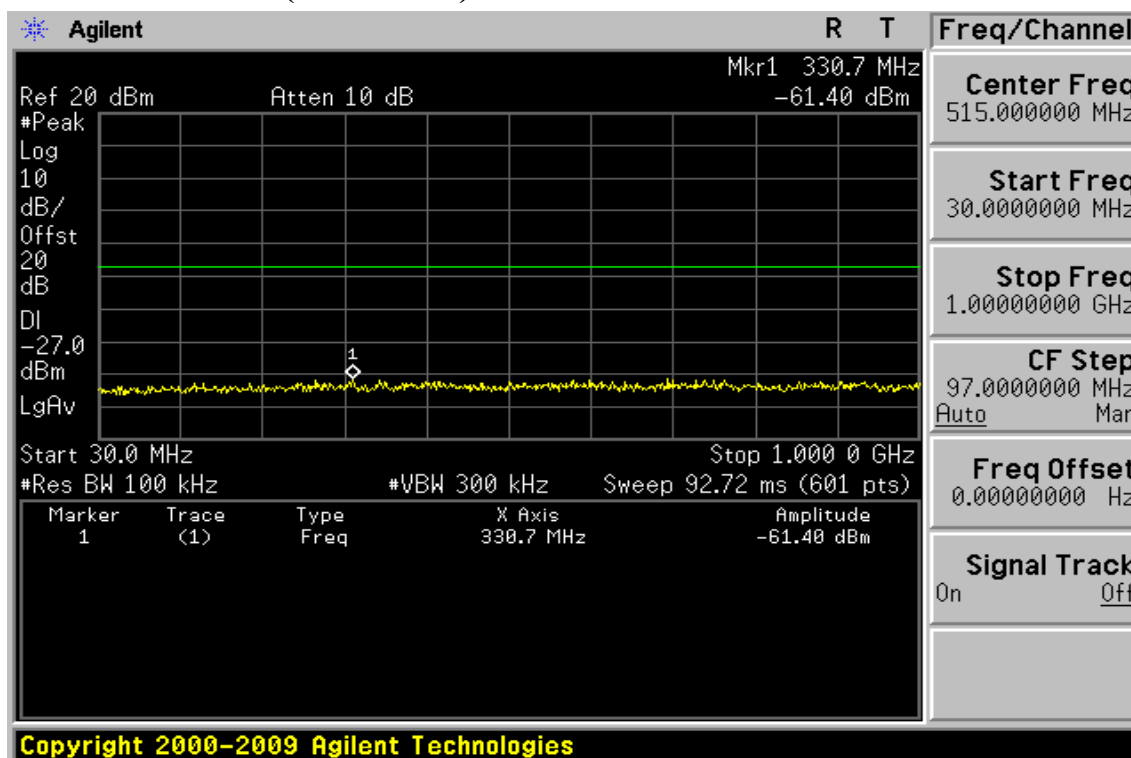
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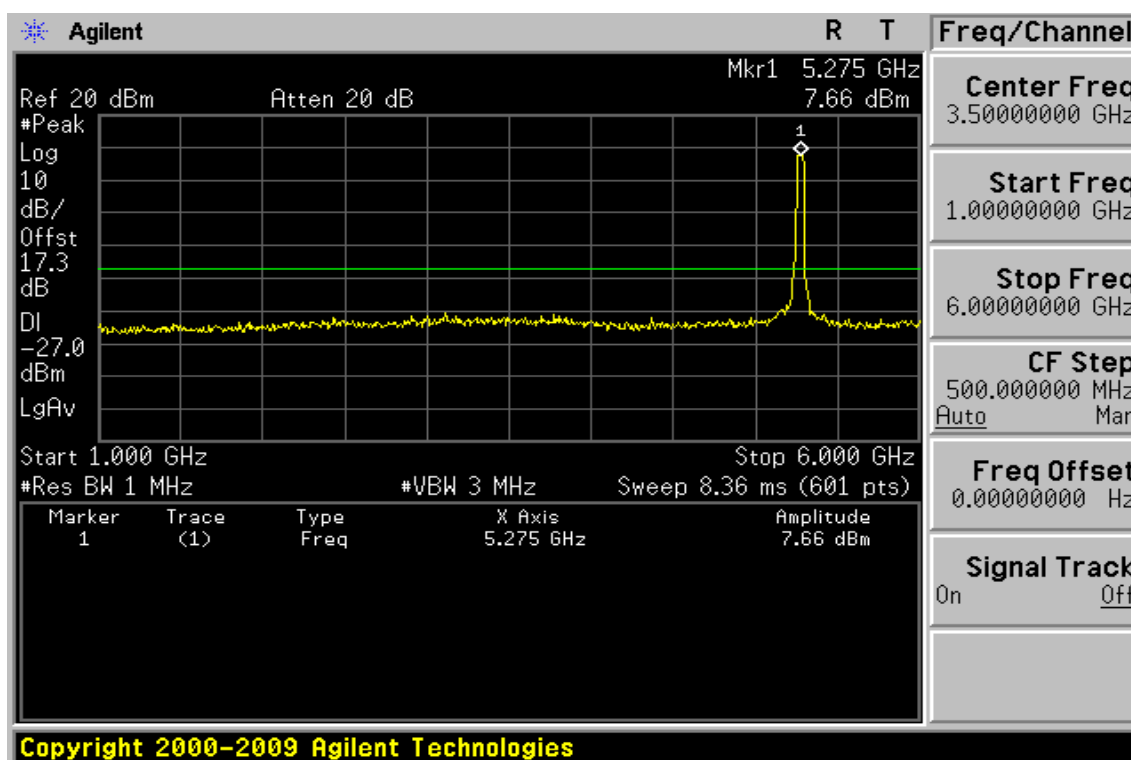
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802.11n HT40, 5250~5350 MHz

Ch Low 30MHz – 1GHz (5270 MHz)



Ch Low 1GHz – 6GHz

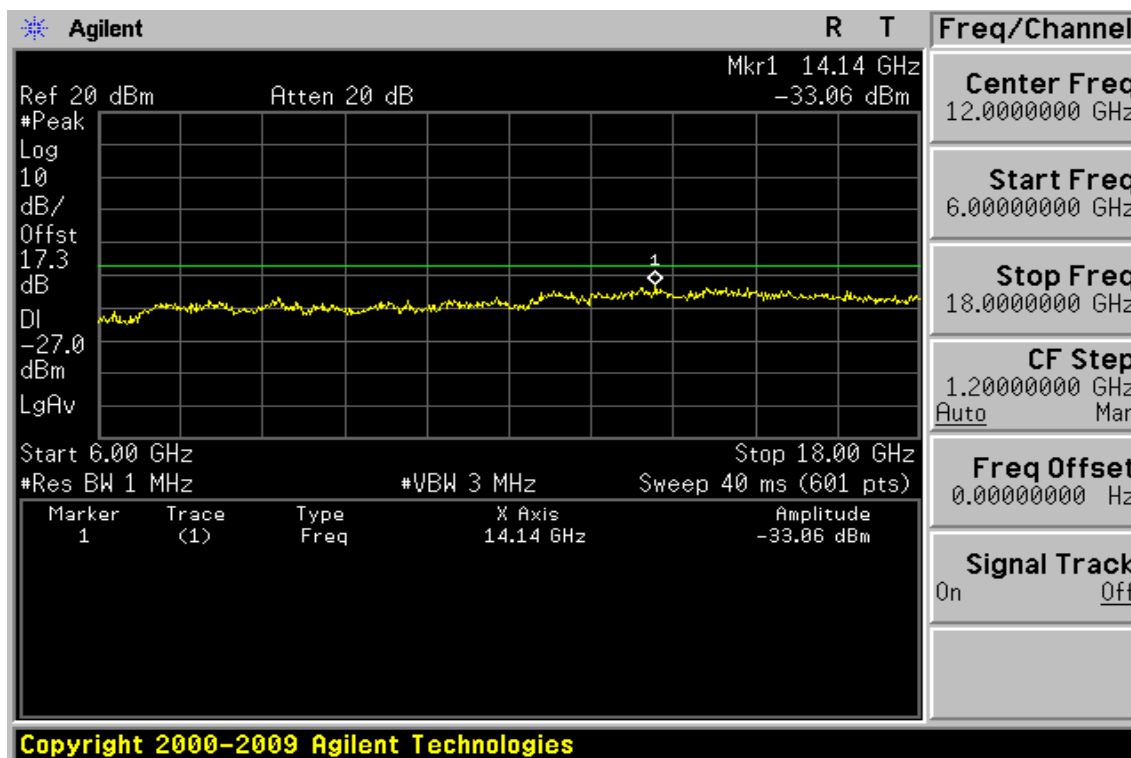


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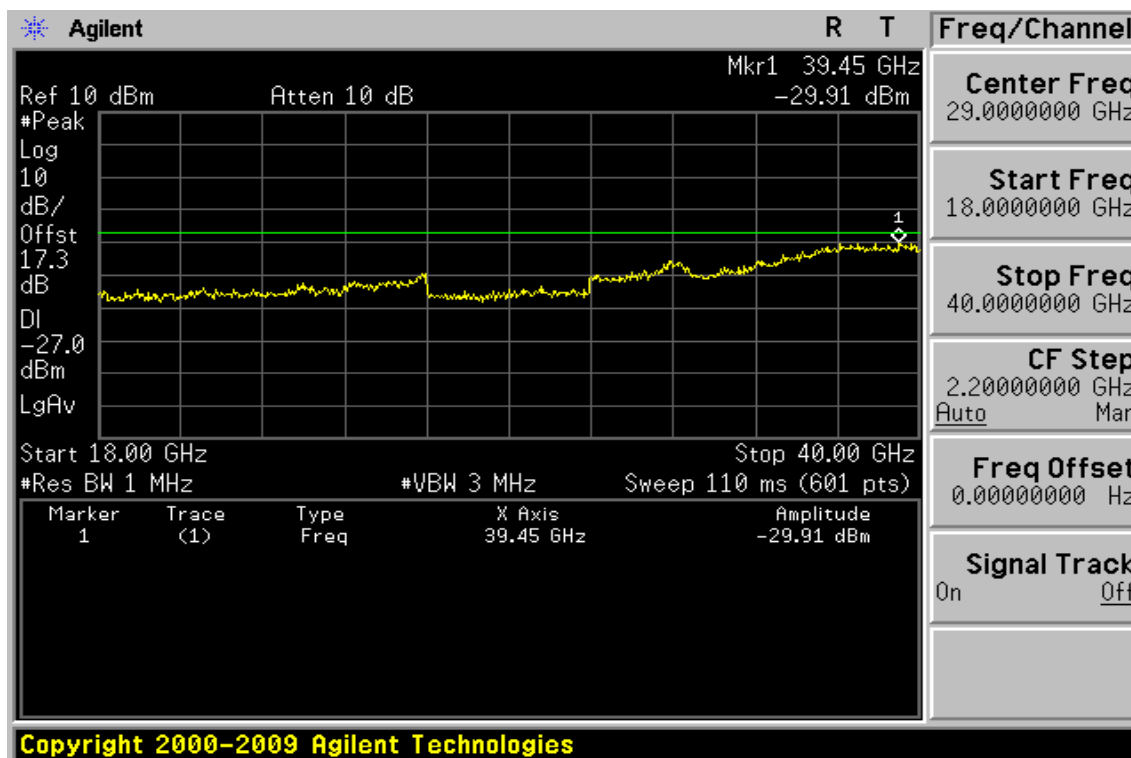
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Ch Low 6GHz – 18GHz



Ch Low 18GHz – 40GHz

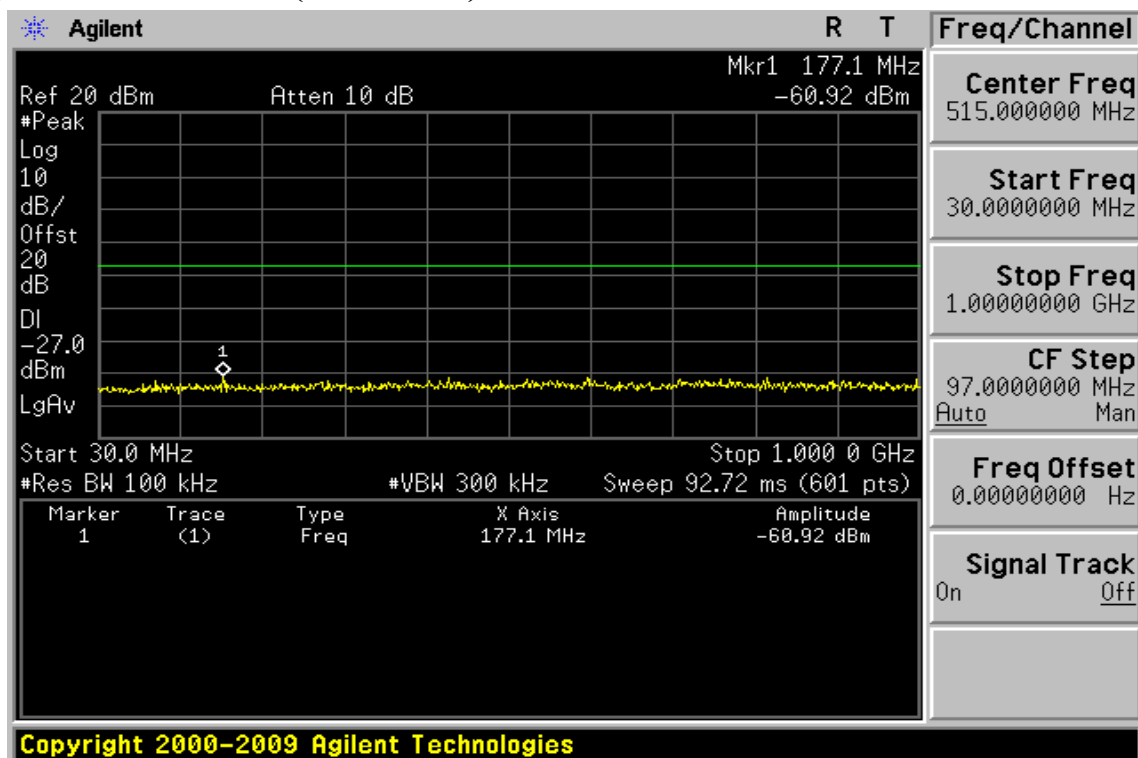


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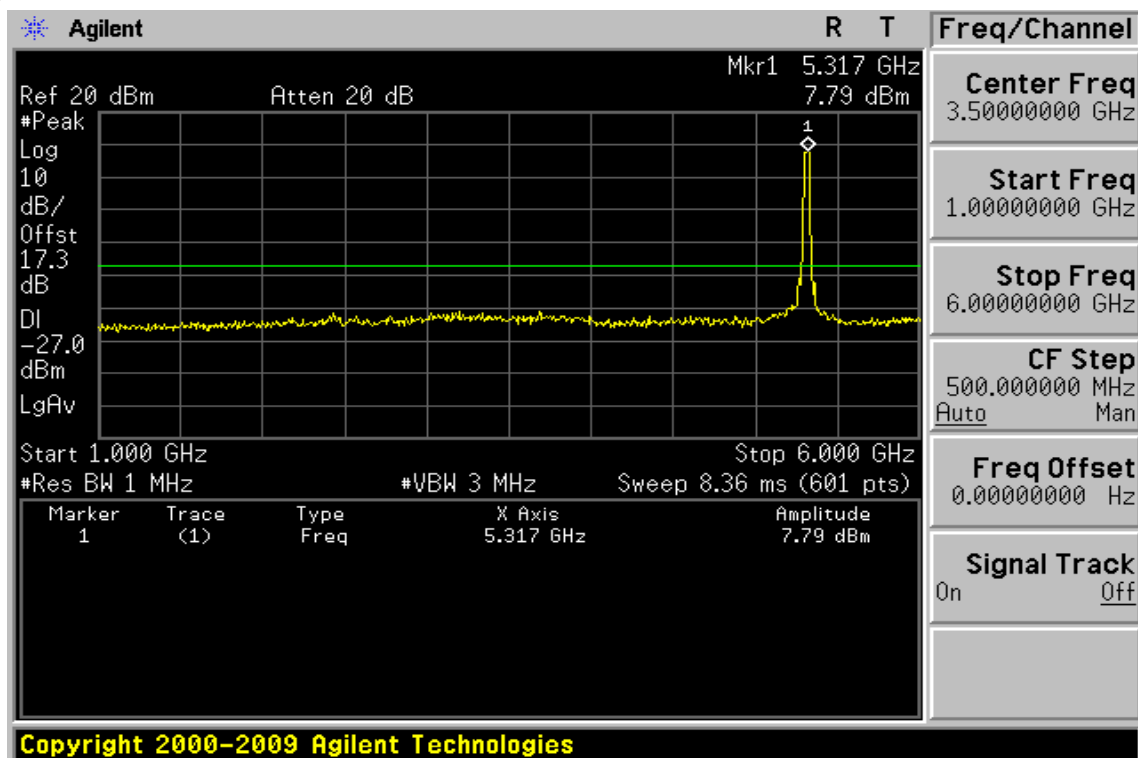
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Ch High 30MHz – 1GHz (5310 MHz)



Ch High 1GHz – 6GHz

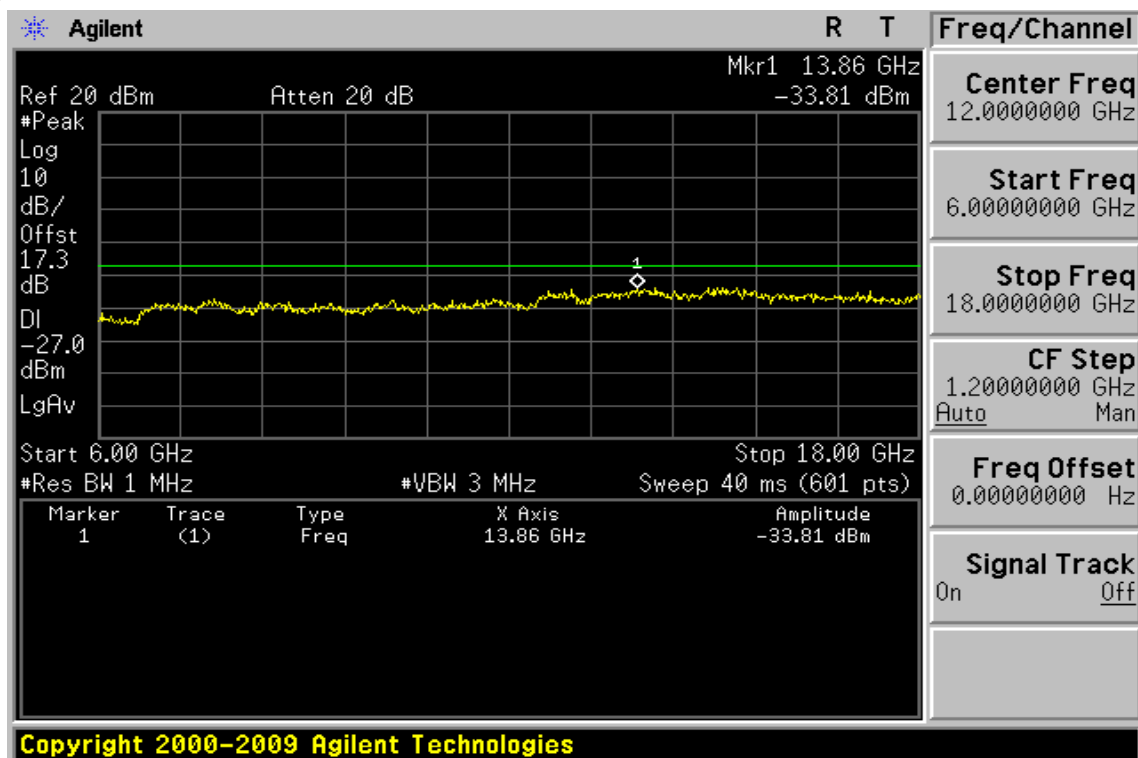


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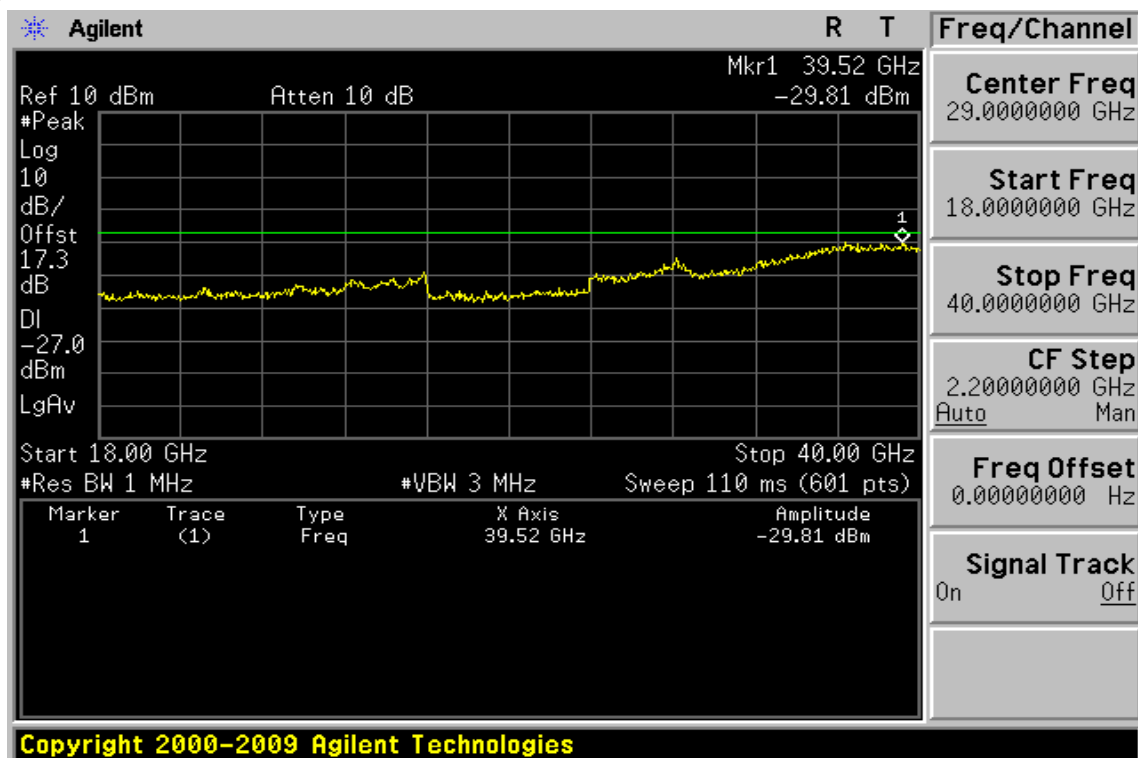
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Ch High 6GHz – 18GHz



Ch High 18GHz – 40GHz



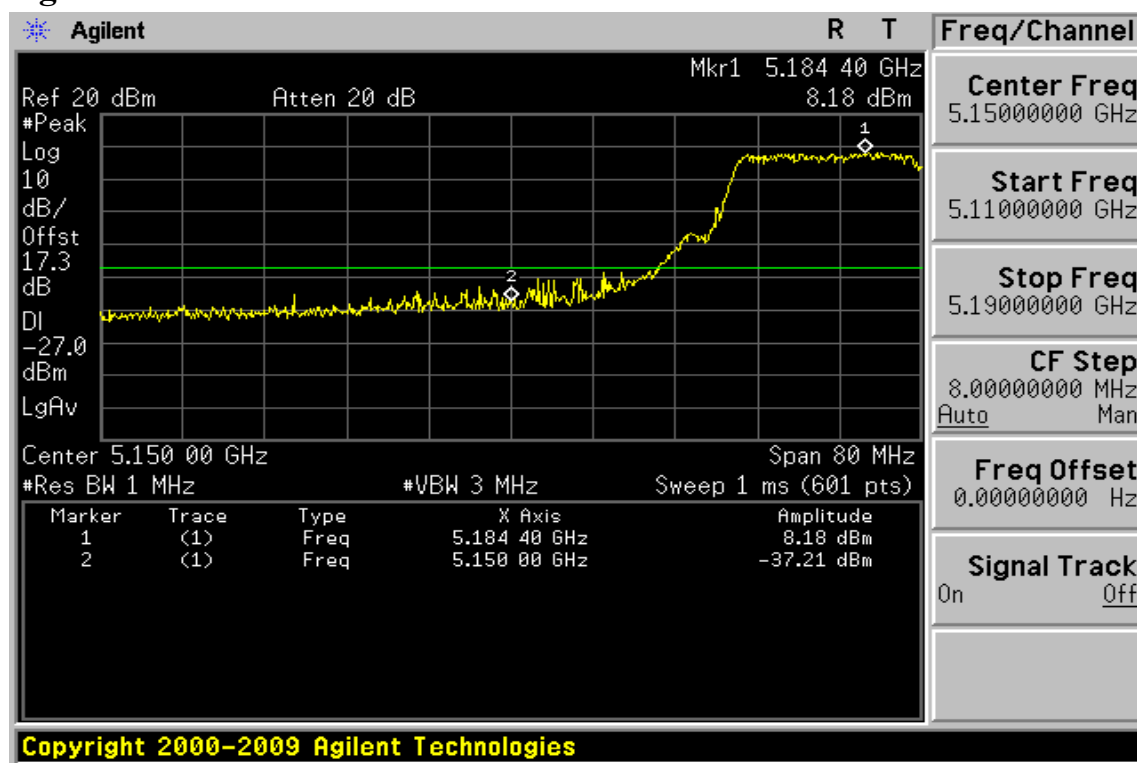
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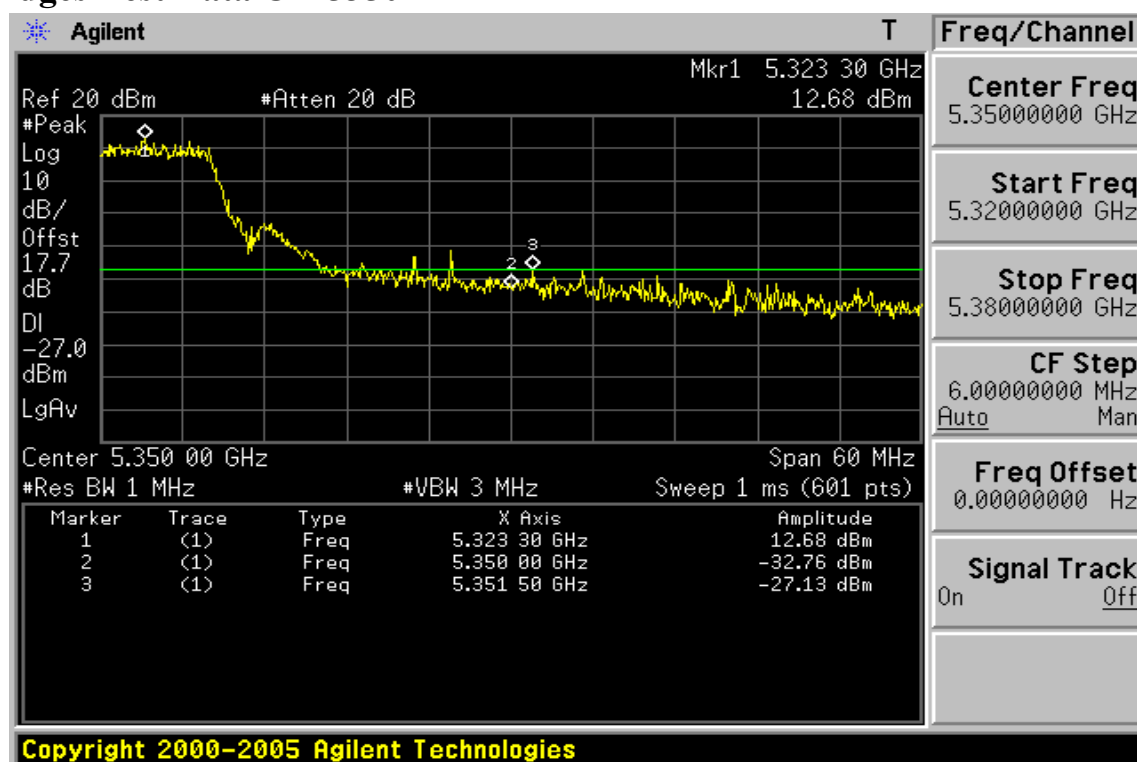
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802.11n HT40 5150~5350 MHz

Band Edges Test Data CH 5150



Band Edges Test Data CH 5350



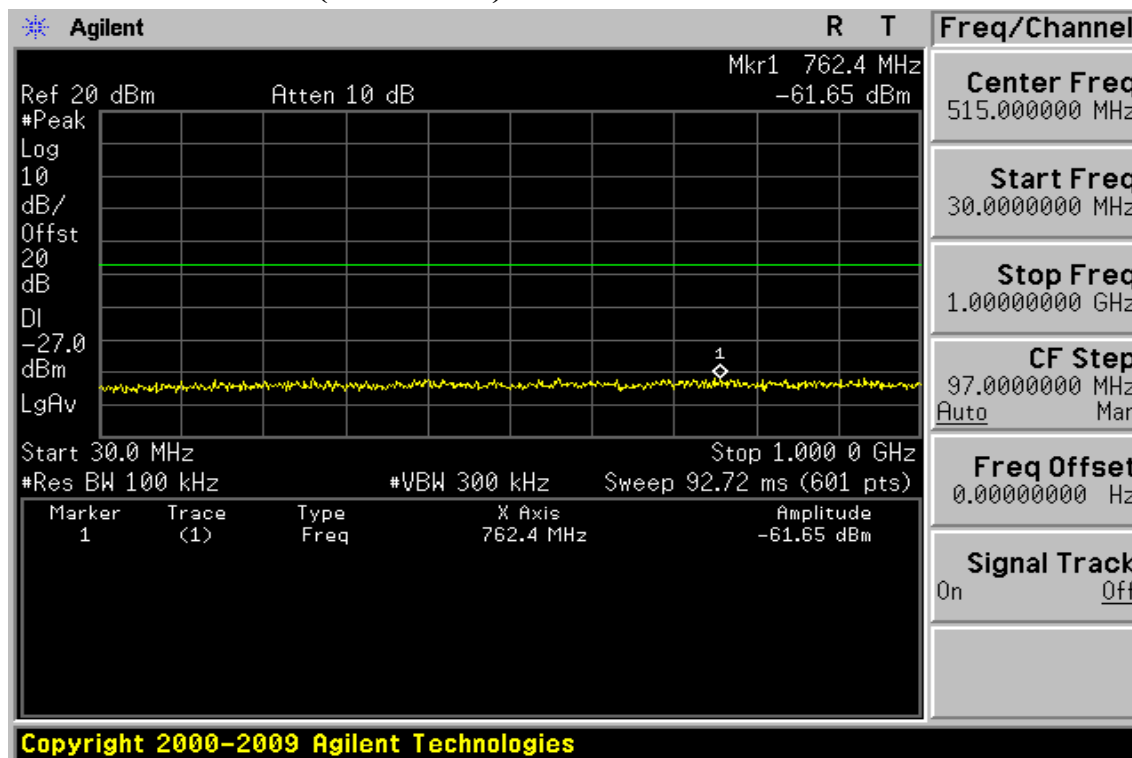
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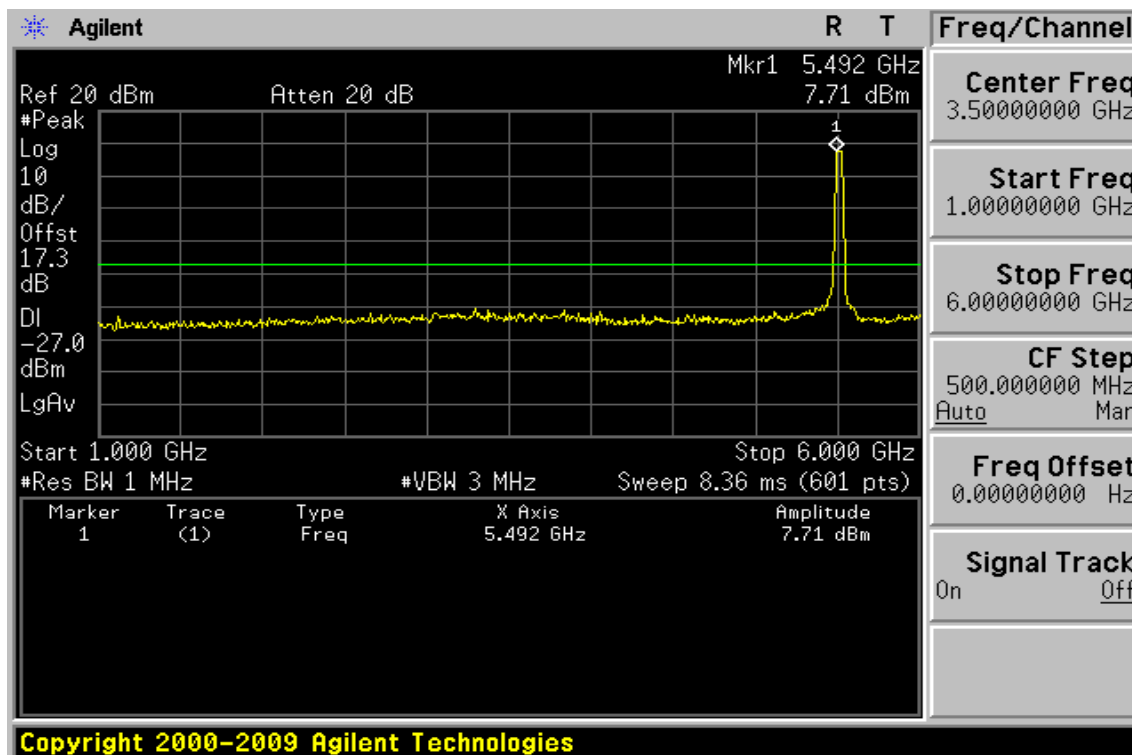
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802.11n HT40, 5470~5725 MHz

Ch Low 30MHz – 1GHz (5510 MHz)



Ch Low 1GHz – 6GHz

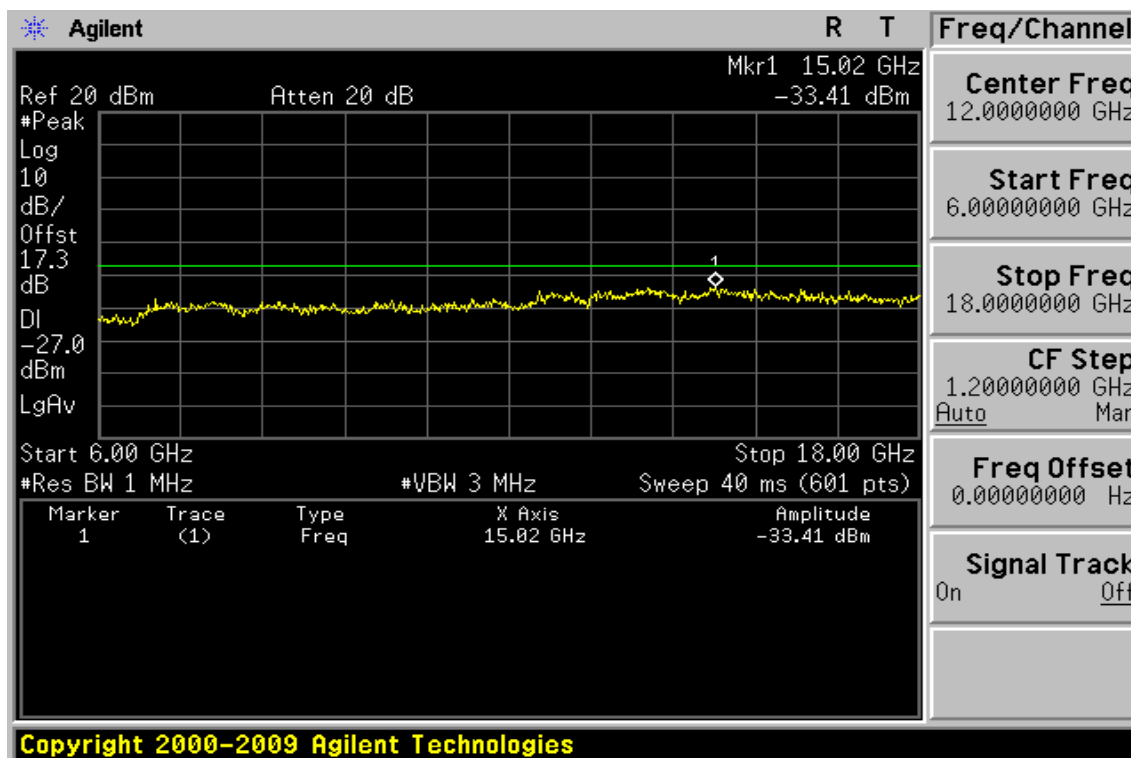


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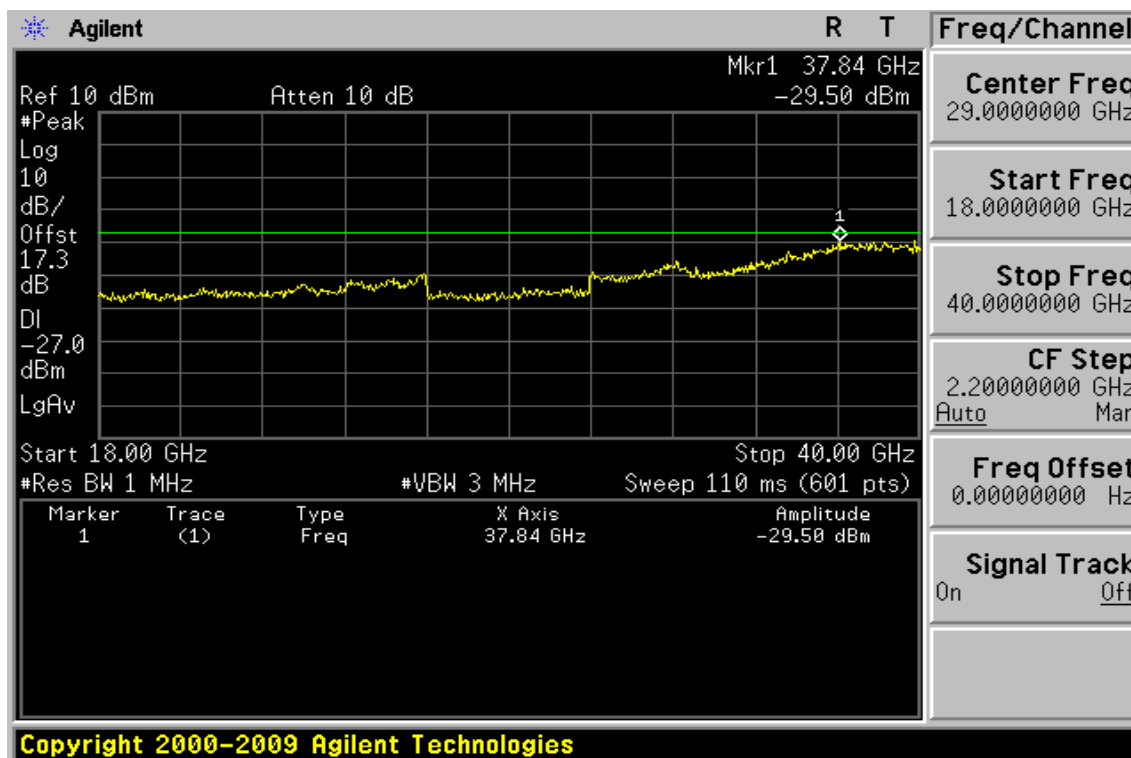
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Ch Low 6GHz – 18GHz



Ch Low 18GHz – 40GHz

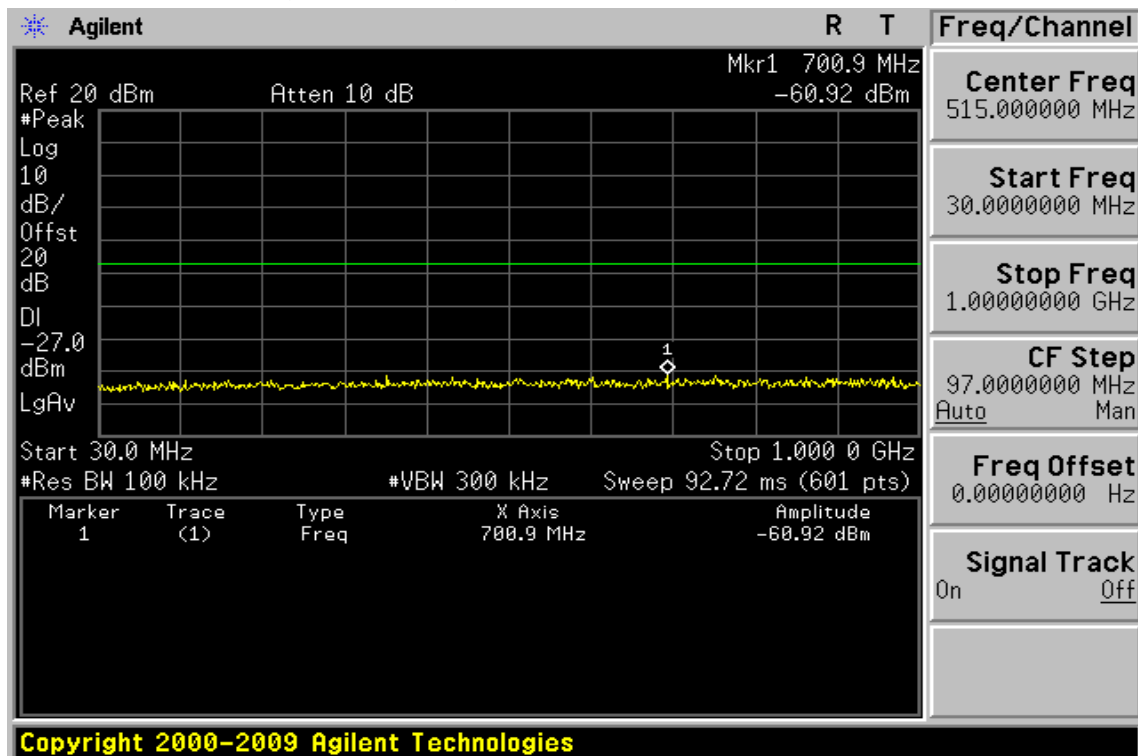


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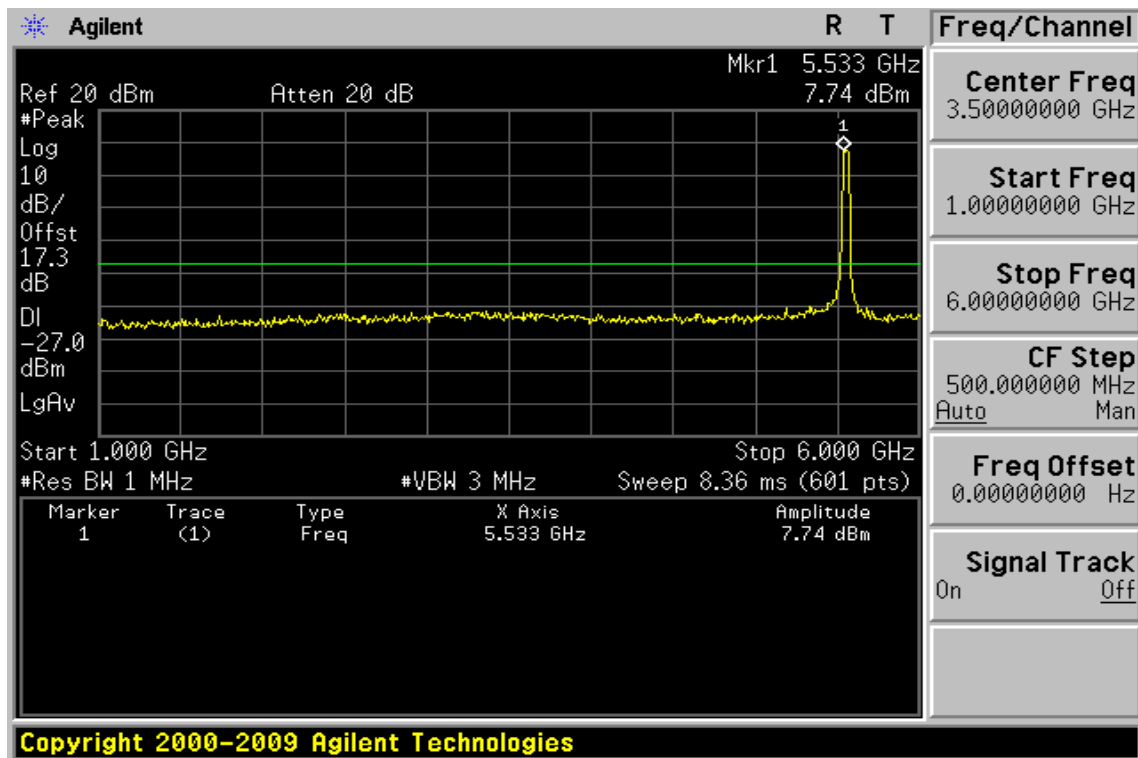
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Ch Mid 30MHz – 1GHz (5550 MHz)



Ch Mid 1GHz – 6GHz

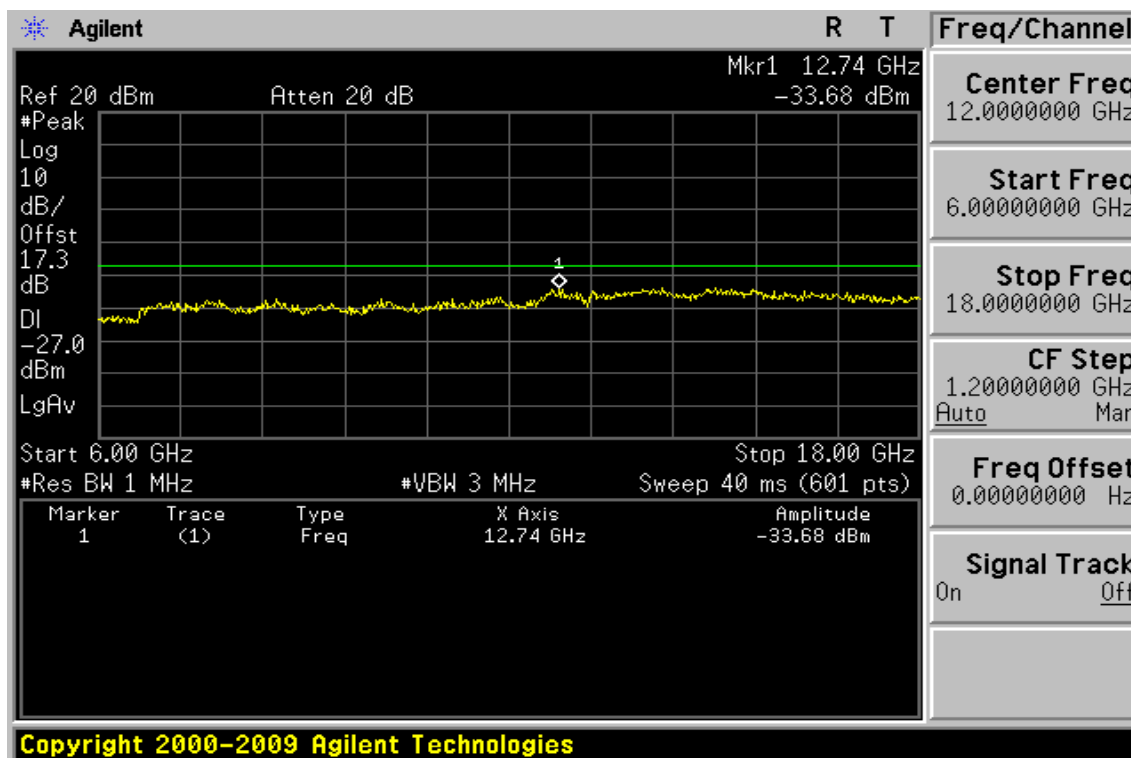


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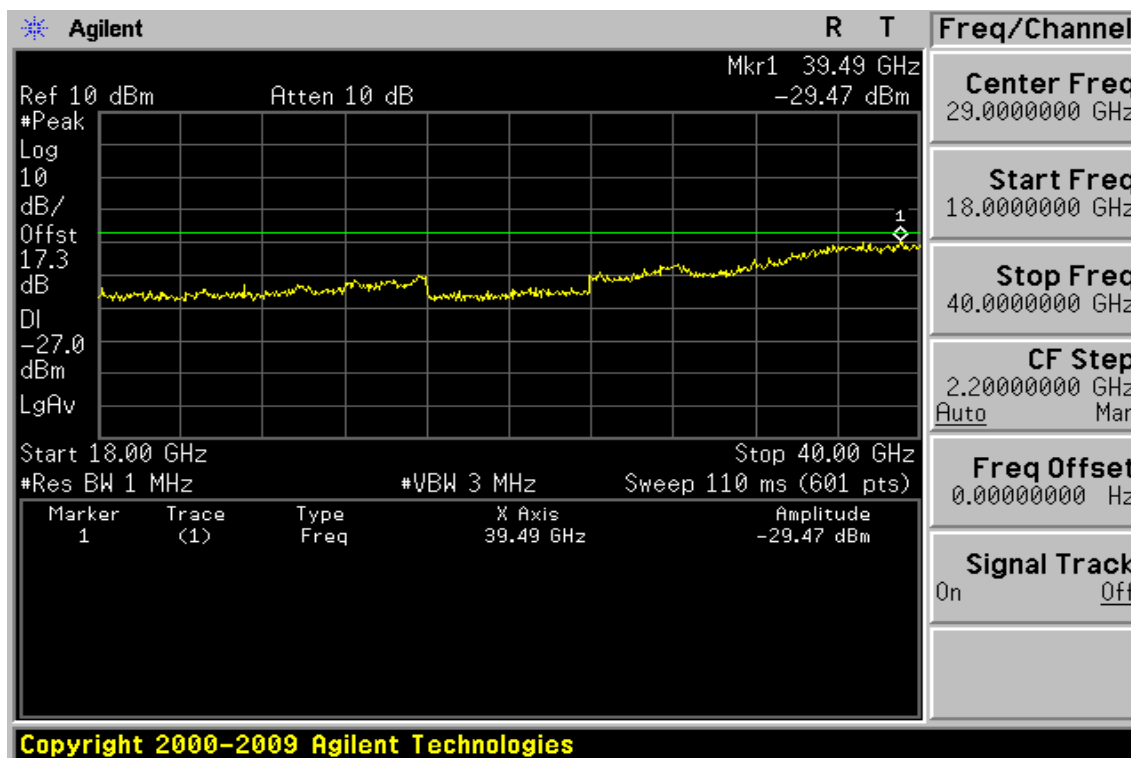
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Ch Mid 6GHz – 18GHz



Ch Mid 18GHz – 40GHz

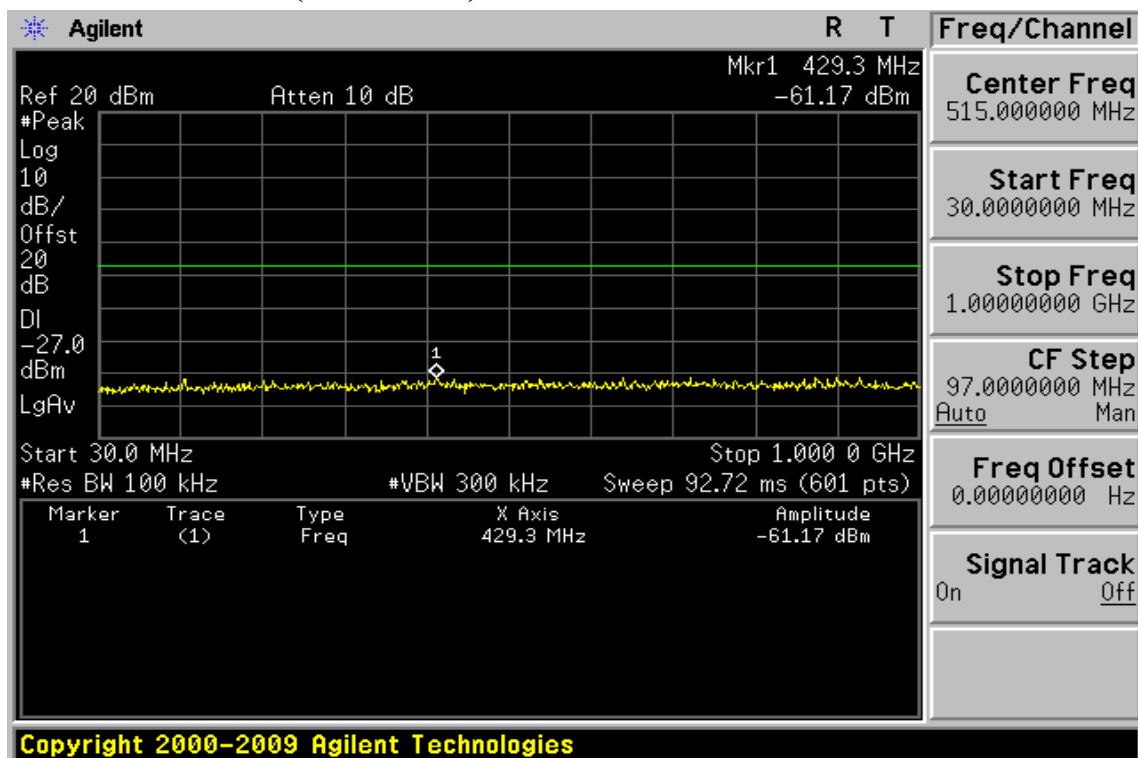


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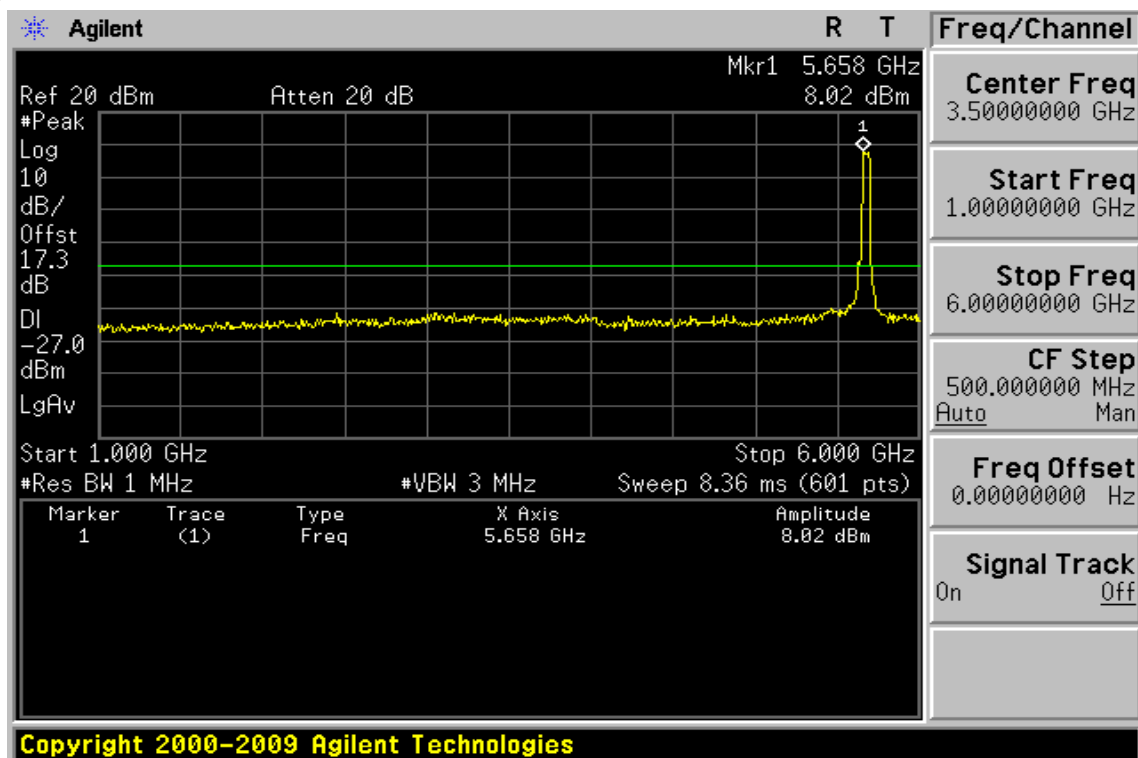
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Ch High 30MHz – 1GHz (5670 MHz)



Ch High 1GHz – 6GHz

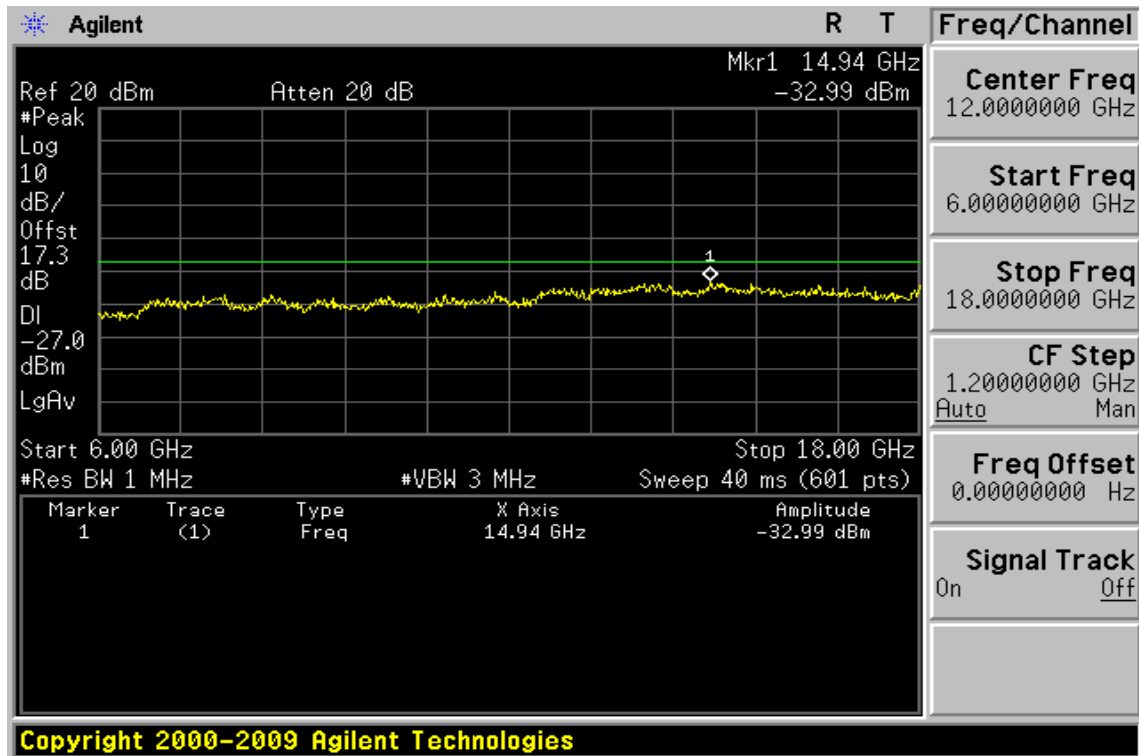


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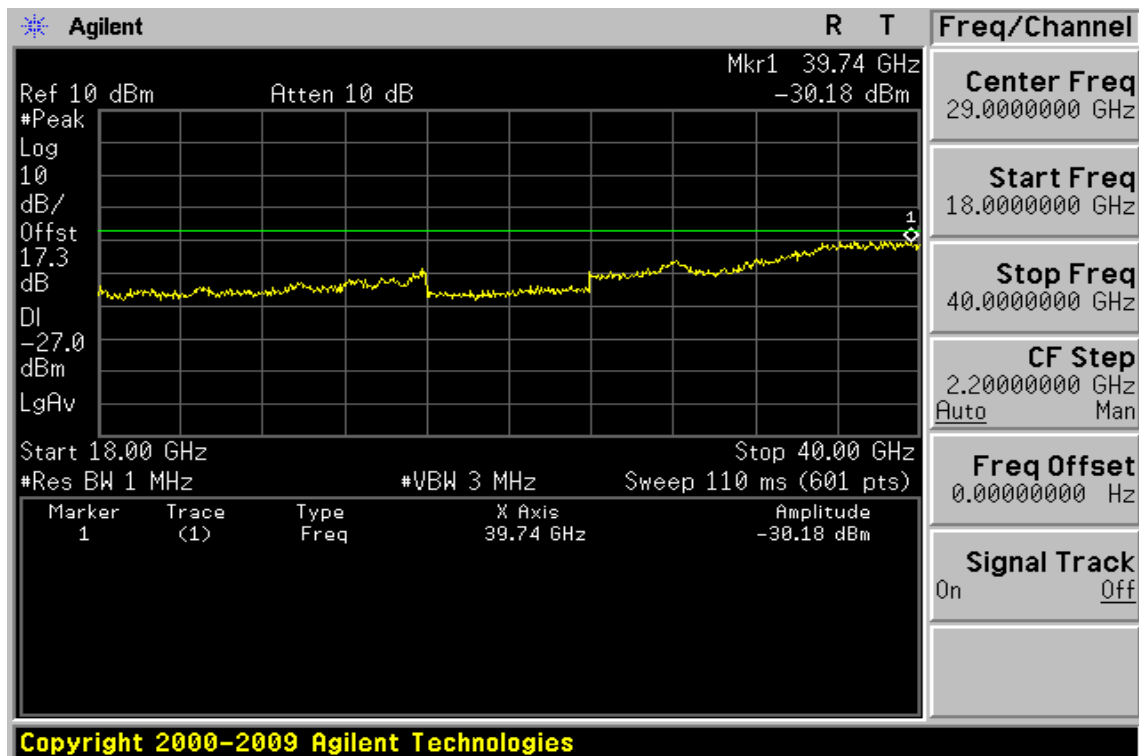
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Ch High 6GHz – 18GHz



Ch High 18GHz – 40GHz

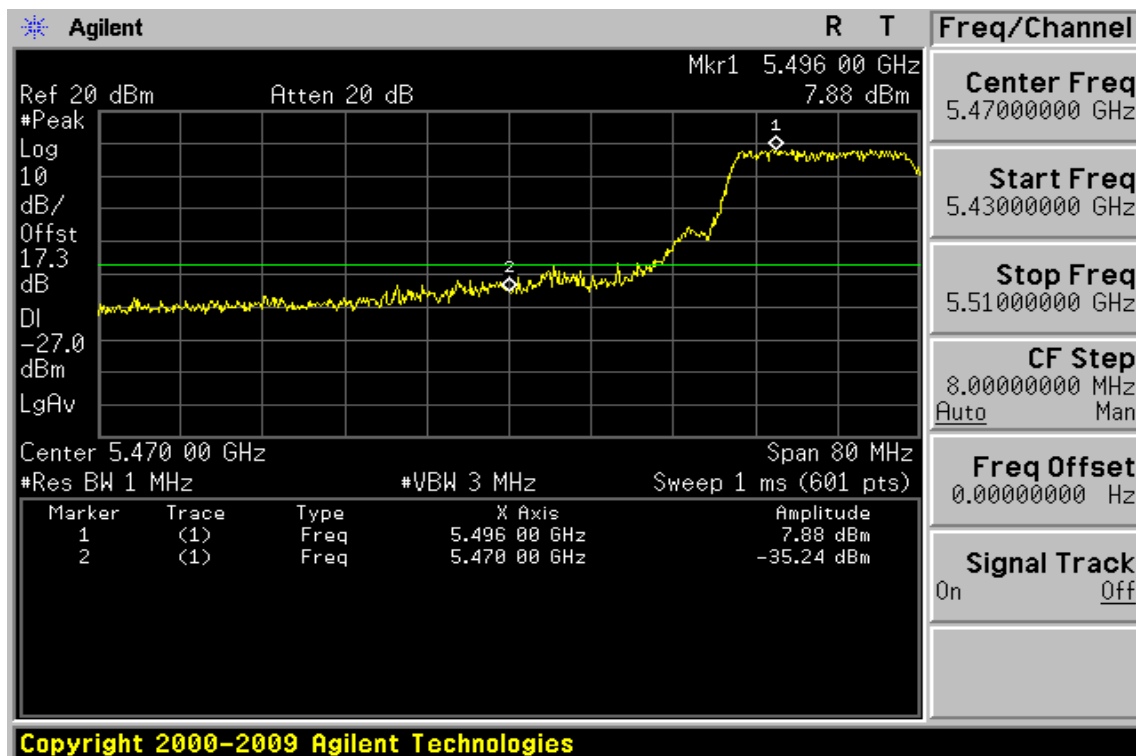


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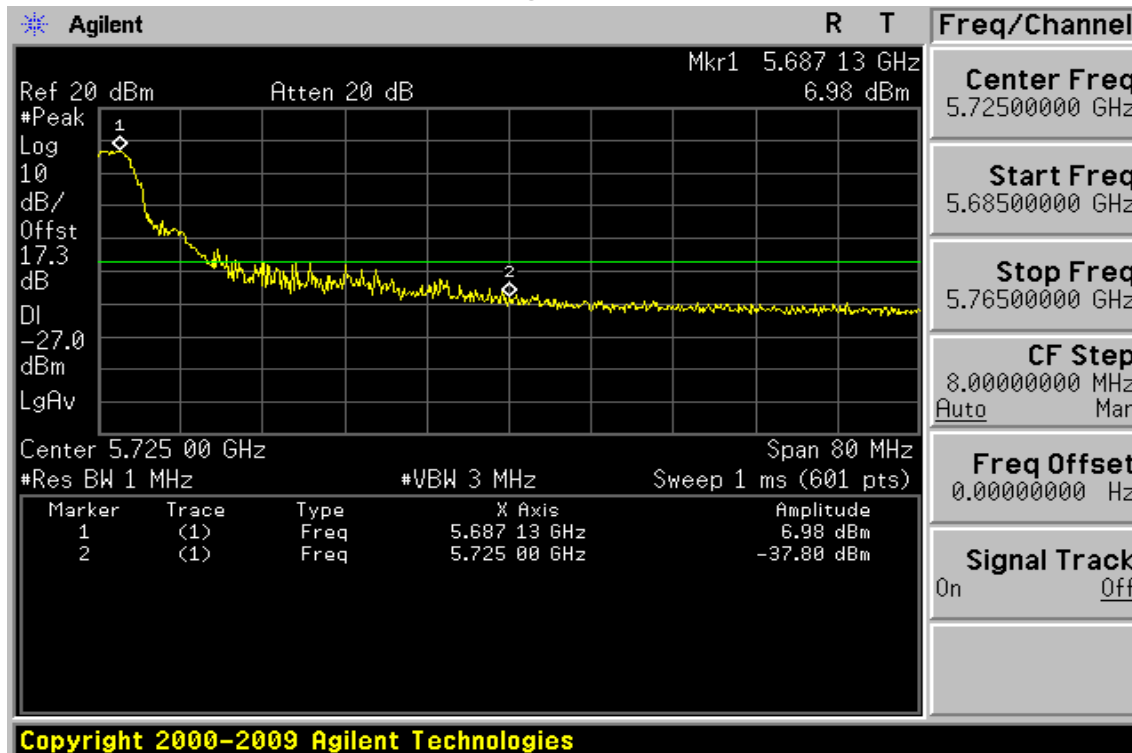
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802.11n HT40 5470~5725 MHz Band Edges Test Data CH 5510



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

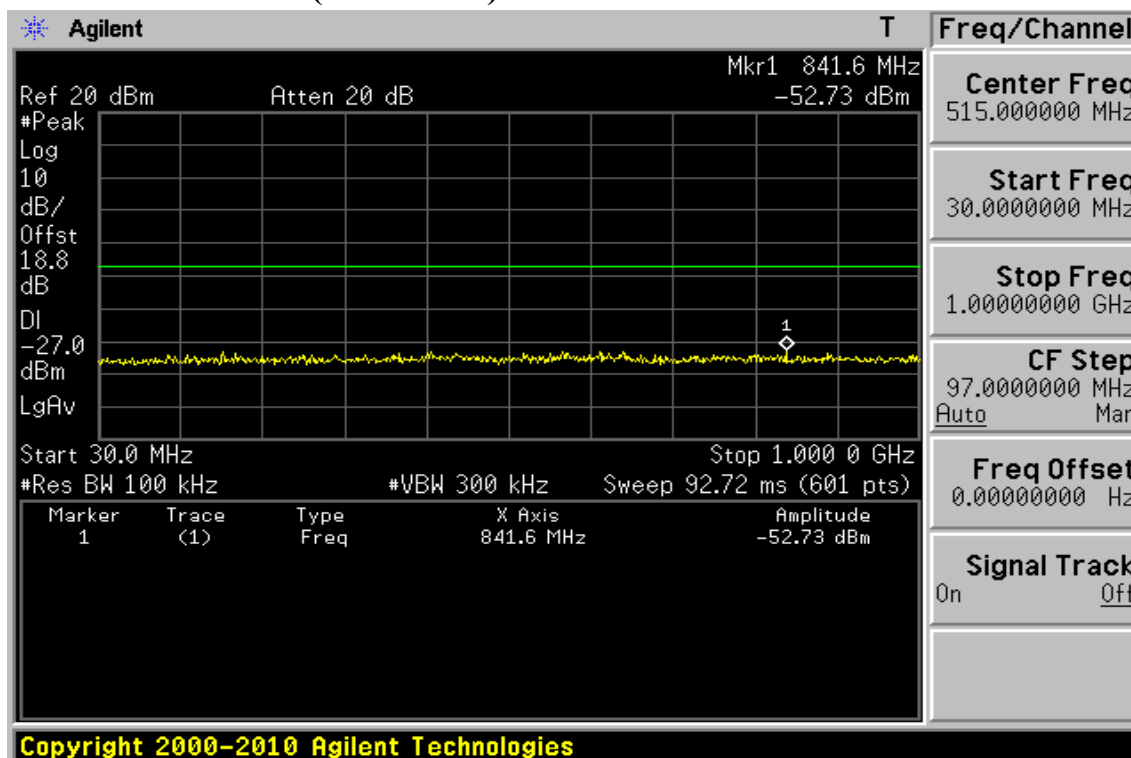


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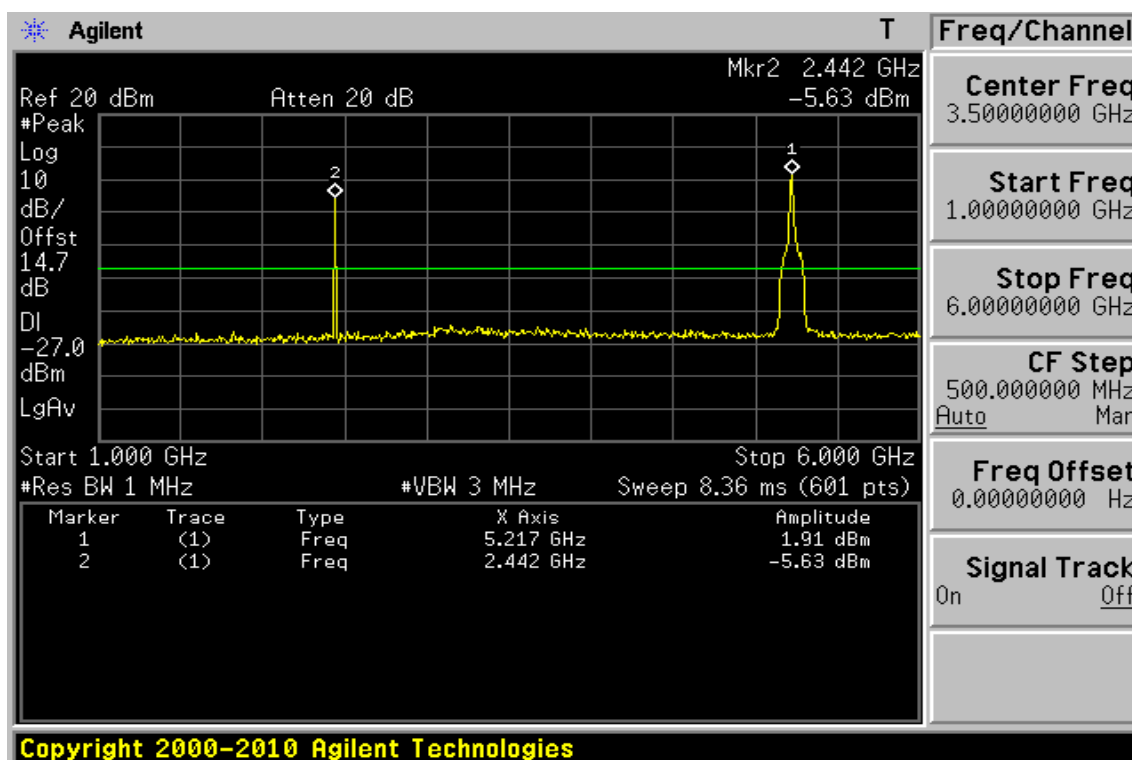
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Simultaneous Transmission (Bluetooth 2441 MHz with 802.11n_HT20 (5220MHz)) Ch Mid 30MHz – 1GHz (5220 MHz)



Ch Mid 1GHz – 6GHz

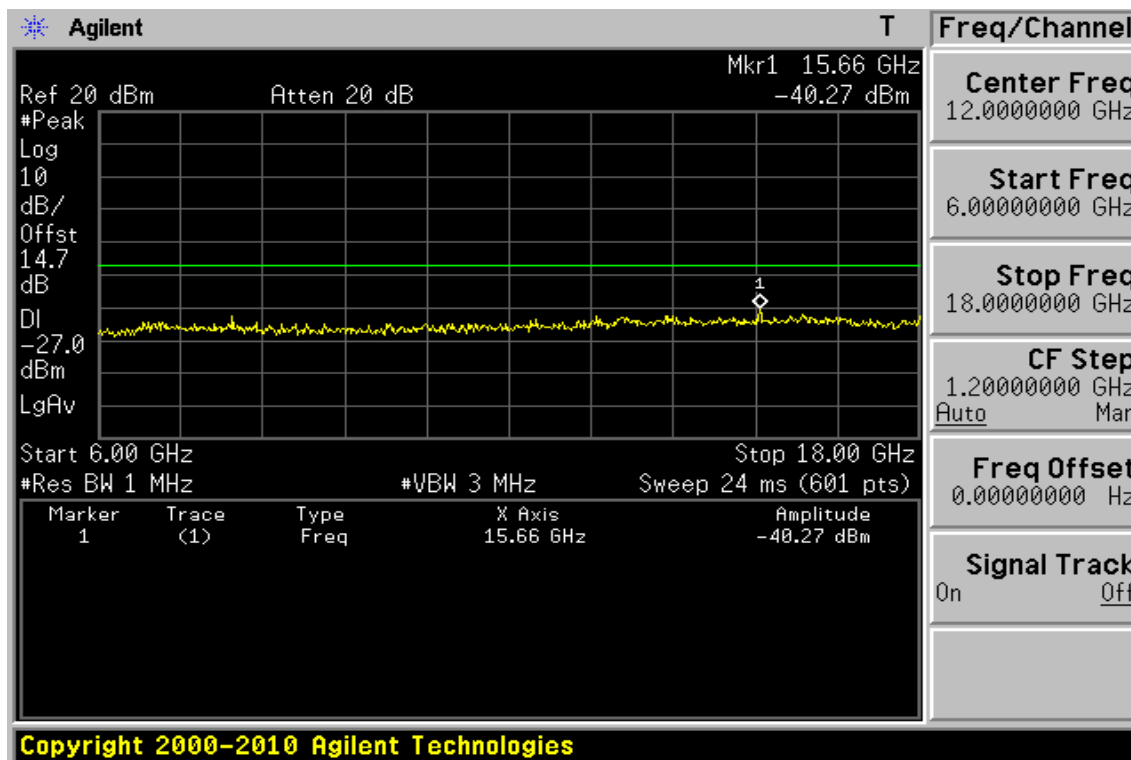


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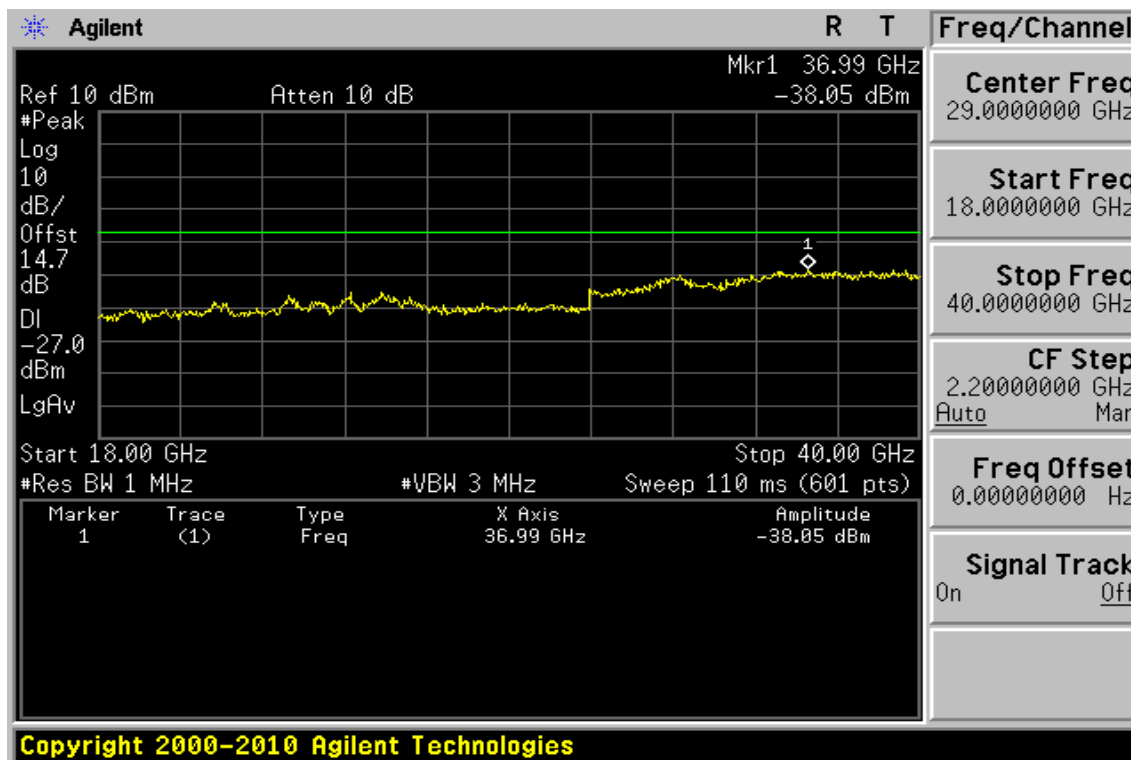
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Ch Mid 6GHz – 18GHz



Ch Mid 18GHz – 40GHz



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12. UNDESIRABLE EMISSION - RADIATED MEASUREMENT

12.1 Standard Applicable

According to §15.407(b) (6) (7),

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

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

Procedure H1) a) b) c) are adopted, KDB 789033 D01, where the conducted measurement is being used to comply with out of emission requirement as per FCC 15.407 b) 6) 7).

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§15.205- RESTRICTED BANDS OF OPERATIONS

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

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

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

² Above 38.6

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

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§15.209- RADIATED EMISSION LIMITS: GENERAL REQUIREMENTS

FCC PART 15.209

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

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Table 3: Restricted Frequency Bands ^(Note)

MHz	MHz	GHz
0.090-0.110	240-285	9.0-9.2
2.1735-2.1905	322-335.4	9.3-9.5
3.020-3.026	399.9-410	10.6-12.7
4.125-4.128	608-614	13.25-13.4
4.17725-4.17775	960-1427	14.47-14.5
4.20725-4.20775	1435-1626.5	15.35-16.2
5.677-5.683	1645.5-1646.5	17.7-21.4
6.215-6.218	1660-1710	22.01-23.12
6.26775-6.26825	1718.8-1722.2	23.6-24.0
6.31175-6.31225	2200-2300	31.2-31.8
8.291-8.294	2310-2390	36.43-36.5
8.362-8.366	2655-2900	Above 38.6
8.37625-8.38675	3260-3267	
8.41425-8.41475	3332-3339	
12.29-12.293	3345.8-3358	
12.51975-12.52025	3500-4400	
12.57675-12.57725	4500-5150	
13.36-13.41	5350-5460	
16.42-16.423	7250-7750	
16.69475-16.69525	8025-8500	
16.80425-16.80475		
25.5-25.67		
37.5-38.25		
73-74.6		
74.8-75.2		
108-138		
156.52475-156.52525		
156.7-156.9		

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

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12.1.1 Transmitter Spurious Emission Limits

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

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

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

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

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

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

Limit derivation in terms of Field Strength:

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

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

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

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12.2 EUT Setup

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

12.3 Measurement Procedure

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

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

For Measurement above 1GHz, for peak unwanted emission measurements follow the KDB 789033 D01 requirements in section H)5) b), for average unwanted emission measurements follow the KDB 789033 D01 requirements in section H)6) c) or d).

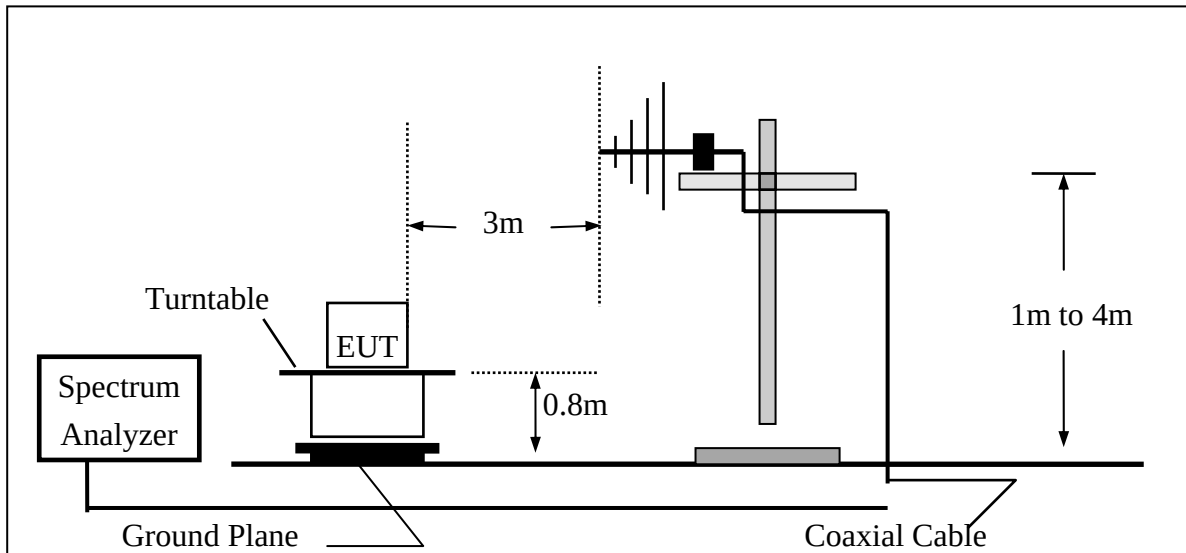
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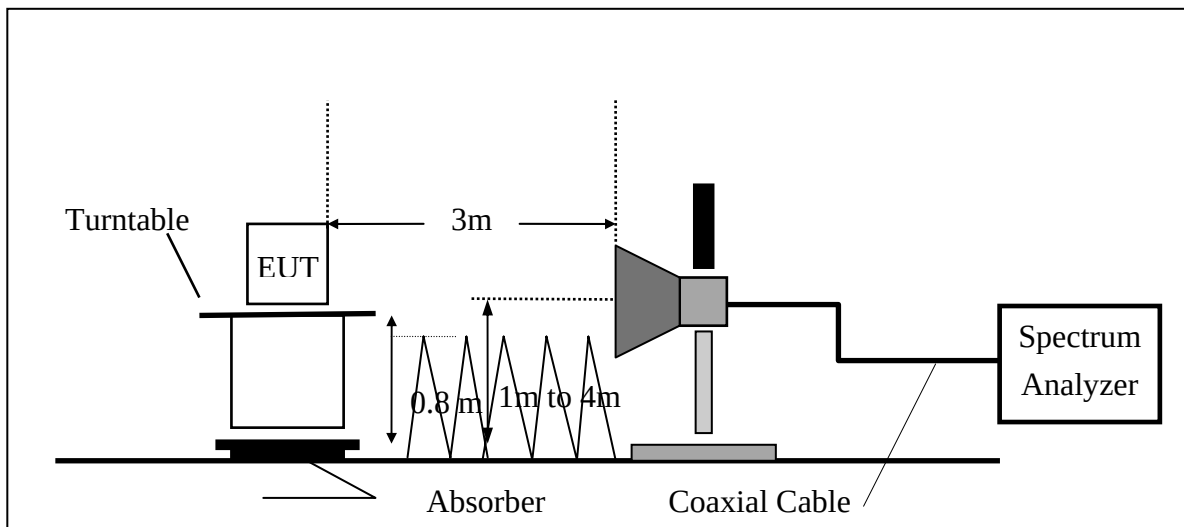
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12.4 Test SET-UP (Block Diagram of Configuration)

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



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



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12.5 Measurement Equipment Used:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESC17	100759	02/08/2013	02/07/2014
Spectrum Analyzer	Agilent	E4446A	MY51100003	05/30/2013	05/29/2014
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	02/06/2013	02/07/2014
Spectrum Analyzer	R&S	FSV-30	101398	10/18/2011	10/17/2013
Bilog Antenna	SCHWAZBECK	VULB9168	378	01/10/2012	01/09/2014
Horn antenna	ETS.LINDGREN	3117	123995	05/31/2013	05/30/2014
Horn Antenna	Schwarzbeck	BBHA9170	184	01/17/2012	01/16/2014
RF amplifier	Miteq	AMF-6F-2600 400-40-8P	971576	01/29/2013	01/28/2014
Pre-Amplifier	Agilent	8447D	2944A07676	01/04/2013	01/03/2014
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/04/2013	01/03/2014
5150-5350 Band Reject Filter	Micro-Tronics	BRM50703	1	01/04/2013	01/03/2014
5470-5725 Band Reject Filter	Micro-Tronics	BRM50704	1	01/04/2013	01/03/2014
5725-5875 Band Reject Filter	Micro-Tronics	BRM50705	1	01/04/2013	01/03/2014
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	02/28/2013	02/27/2014
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	02/28/2013	02/27/2014
Attenuator	Mini-Circuit	BW-S10W2+	002	02/28/2013	02/27/2014
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	Huber Suhner	966_Rx	9	01/04/2013	01/03/2014
3m Site NSA	SGS	966 chamber	N/A	07/15/2013	07/14/2014

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12.6 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

12.7 Measurement Result

Refer to attach tabular data sheets.

NOTE:

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

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

Operation Band	:802.11 a	Test Date	:2013-09-09
Fundamental Frequency	:5180 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX LOW	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
96.93	S	Peak	32.74	-16.82	15.92	43.50	-27.58
286.08	S	Peak	28.72	-12.66	16.06	46.00	-29.94
549.92	S	Peak	27.79	-7.84	19.95	46.00	-26.05
676.99	S	Peak	27.71	-5.16	22.55	46.00	-23.45
784.66	S	Peak	27.24	-3.86	23.38	46.00	-22.62
921.43	S	Peak	27.15	-2.10	25.05	46.00	-20.95
10360.00	H	Peak	23.57	15.23	38.80	68.30	-29.50
15540.00	H	---					
20720.00	H	---					
25900.00	H	---					
31080.00	H	---					
36260.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-09-09
Fundamental Frequency	:5180 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX LOW	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
115.36	S	Peak	29.29	-14.81	14.48	43.50	-29.02
317.12	S	Peak	27.19	-11.91	15.28	46.00	-30.72
514.03	S	Peak	28.35	-8.65	19.70	46.00	-26.30
662.44	S	Peak	27.46	-5.41	22.05	46.00	-23.95
807.94	S	Peak	27.92	-3.67	24.25	46.00	-21.75
907.85	S	Peak	27.17	-2.35	24.82	46.00	-21.18
10360.00	H	Peak	23.93	15.26	39.19	68.30	-29.11
15540.00	H	---					
20720.00	H	---					
25900.00	H	---					
31080.00	H	---					
36260.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-09-09
Fundamental Frequency	:5220 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX MID	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
111.48	S	Peak	31.20	-15.30	15.90	43.50	-27.60
338.46	S	Peak	27.89	-11.59	16.30	46.00	-29.70
546.04	S	Peak	28.09	-7.93	20.16	46.00	-25.84
705.12	S	Peak	27.43	-4.75	22.68	46.00	-23.32
800.18	S	Peak	26.92	-3.75	23.17	46.00	-22.83
948.59	S	Peak	27.32	-1.77	25.55	46.00	-20.45
10440.00	H	Peak	23.41	15.37	38.78	68.30	-29.52
15660.00	H	---					
20880.00	H	---					
26100.00	H	---					
31320.00	H	---					
36540.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-09-09
Fundamental Frequency	:5220 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX MID	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
125.06	S	Peak	29.62	-13.92	15.70	43.50	-27.80
286.08	S	Peak	27.97	-12.66	15.31	46.00	-30.69
507.24	S	Peak	28.89	-8.81	20.08	46.00	-25.92
635.28	S	Peak	28.20	-5.87	22.33	46.00	-23.67
799.21	S	Peak	27.79	-3.75	24.04	46.00	-21.96
945.68	S	Peak	26.84	-1.80	25.04	46.00	-20.96
10440.00	H	Peak	23.09	15.45	38.54	68.30	-29.76
15660.00	H	---					
20880.00	H	---					
26100.00	H	---					
31320.00	H	---					
36540.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-09-09
Fundamental Frequency	:5240 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX HIGH	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
110.51	S	Peak	33.02	-15.42	17.60	43.50	-25.90
286.08	S	Peak	28.89	-12.66	16.23	46.00	-29.77
520.82	S	Peak	28.44	-8.49	19.95	46.00	-26.05
676.99	S	Peak	28.00	-5.16	22.84	46.00	-23.16
777.87	S	Peak	27.36	-3.89	23.47	46.00	-22.53
907.85	S	Peak	27.59	-2.35	25.24	46.00	-20.76
10480.00	H	Peak	23.93	15.33	39.26	68.30	-29.04
15720.00	H	---					
20960.00	H	---					
26200.00	H	---					
31440.00	H	---					
36680.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-09-09
Fundamental Frequency	:5240 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX HIGH	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
114.39	S	Peak	30.63	-14.93	15.70	43.50	-27.80
321.00	S	Peak	26.16	-11.84	14.32	46.00	-31.68
503.36	S	Peak	27.82	-8.90	18.92	46.00	-27.08
662.44	S	Peak	27.84	-5.41	22.43	46.00	-23.57
826.37	S	Peak	27.66	-3.48	24.18	46.00	-21.82
918.52	S	Peak	27.34	-2.15	25.19	46.00	-20.81
10480.00	H	Peak	22.62	15.42	38.04	68.30	-30.26
15720.00	H	---					
20960.00	H	---					
26200.00	H	---					
31440.00	H	---					
36680.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-09-09
Fundamental Frequency	:5180 MHz	Temp./Humi.	:25.5 deg_C / 63 RH
Operation Mode	:Bandedge LOW	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
5150.00	E	Average	38.58	8.08	46.66	54.00	-7.34
5150.00	E	Peak	60.93	8.08	69.01	74.00	-4.99

Operation Band	:802.11 a	Test Date	:2013-09-09
Fundamental Frequency	:5180 MHz	Temp./Humi.	:25.5 deg_C / 63 RH
Operation Mode	:Bandedge LOW	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
5150.00	E	Average	36.93	8.18	45.11	54.00	-8.89
5150.00	E	Peak	57.04	8.18	65.22	74.00	-8.78

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

Operation Band	:802.11 n20M	Test Date	:2013-09-09
Fundamental Frequency	:5180 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX LOW	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
82.38	S	Peak	32.97	-17.62	15.35	40.00	-24.65
343.31	S	Peak	26.77	-11.53	15.24	46.00	-30.76
542.16	S	Peak	27.41	-8.01	19.40	46.00	-26.60
685.72	S	Peak	28.56	-5.05	23.51	46.00	-22.49
775.93	S	Peak	27.45	-3.91	23.54	46.00	-22.46
915.61	S	Peak	27.54	-2.19	25.35	46.00	-20.65
10360.00	H	Peak	23.08	15.23	38.31	68.30	-29.99
15540.00	H	---					
20720.00	H	---					
25900.00	H	---					
31080.00	H	---					
36260.00	H	---					

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Operation Band	:802.11 n20M	Test Date	:2013-09-09
Fundamental Frequency	:5180 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX LOW	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
114.39	S	Peak	30.14	-14.93	15.21	43.50	-28.29
310.33	S	Peak	26.42	-12.05	14.37	46.00	-31.63
510.15	S	Peak	27.53	-8.73	18.80	46.00	-27.20
653.71	S	Peak	27.41	-5.55	21.86	46.00	-24.14
820.55	S	Peak	27.80	-3.54	24.26	46.00	-21.74
940.83	S	Peak	27.04	-1.85	25.19	46.00	-20.81
10360.00	H	Peak	23.69	15.26	38.95	68.30	-29.35
15540.00	H	---					
20720.00	H	---					
25900.00	H	---					
31080.00	H	---					
36260.00	H	---					

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Operation Band	:802.11 n20M	Test Date	:2013-09-09
Fundamental Frequency	:5220 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX MID	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
96.93	S	Peak	33.58	-16.82	16.76	43.50	-26.74
343.31	S	Peak	27.39	-11.53	15.86	46.00	-30.14
536.34	S	Peak	28.51	-8.14	20.37	46.00	-25.63
685.72	S	Peak	27.68	-5.05	22.63	46.00	-23.37
778.84	S	Peak	28.35	-3.89	24.46	46.00	-21.54
945.68	S	Peak	26.57	-1.80	24.77	46.00	-21.23
10400.00	H	Peak	23.86	15.31	39.17	68.30	-29.13
15660.00	H	---					
20880.00	H	---					
26100.00	H	---					
31320.00	H	---					
36540.00	H	---					

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Operation Band	:802.11 n20M	Test Date	:2013-09-09
Fundamental Frequency	:5220 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX MID	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
118.27	S	Peak	30.28	-14.46	15.82	43.50	-27.68
289.96	S	Peak	27.24	-12.55	14.69	46.00	-31.31
513.06	S	Peak	27.52	-8.67	18.85	46.00	-27.15
619.76	S	Peak	28.84	-6.19	22.65	46.00	-23.35
812.79	S	Peak	27.54	-3.61	23.93	46.00	-22.07
946.65	S	Peak	27.34	-1.79	25.55	46.00	-20.45
10400.00	H	Peak	23.71	15.37	39.08	68.30	-29.22
15660.00	H	---					
20880.00	H	---					
26100.00	H	---					
31320.00	H	---					
36540.00	H	---					

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Operation Band	:802.11 n20M	Test Date	:2013-09-09
Fundamental Frequency	:5240 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX HIGH	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
99.84	S	Peak	31.59	-16.61	14.98	43.50	-28.52
343.31	S	Peak	27.63	-11.53	16.10	46.00	-29.90
540.22	S	Peak	27.62	-8.06	19.56	46.00	-26.44
688.63	S	Peak	27.67	-5.00	22.67	46.00	-23.33
793.39	S	Peak	27.68	-3.79	23.89	46.00	-22.11
935.98	S	Peak	26.84	-1.91	24.93	46.00	-21.07
10480.00	H	Peak	23.04	15.33	38.37	68.30	-29.93
15720.00	H	---					
20960.00	H	---					
26200.00	H	---					
31440.00	H	---					
36680.00	H	---					

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Operation Band	:802.11 n20M	Test Date	:2013-09-09
Fundamental Frequency	:5240 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX HIGH	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
115.36	S	Peak	29.46	-14.81	14.65	43.50	-28.85
259.89	S	Peak	28.02	-13.55	14.47	46.00	-31.53
511.12	S	Peak	27.79	-8.72	19.07	46.00	-26.93
617.82	S	Peak	28.59	-6.24	22.35	46.00	-23.65
818.61	S	Peak	27.39	-3.56	23.83	46.00	-22.17
900.09	S	Peak	27.75	-2.48	25.27	46.00	-20.73
10480.00	H	Peak	23.86	15.42	39.28	68.30	-29.02
15720.00	H	---					
20960.00	H	---					
26200.00	H	---					
31440.00	H	---					
36680.00	H	---					

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Operation Band	:802.11 n20M	Test Date	:2013-09-09
Fundamental Frequency	:5180 MHz	Temp./Humi.	:25.5 deg_C / 63 RH
Operation Mode	:Bandedge LOW	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
5150.00	E	Average	36.65	8.08	44.73	54.00	-9.27
5150.00	E	Peak	56.21	8.08	64.29	74.00	-9.71

Operation Band	:802.11 n20M	Test Date	:2013-09-09
Fundamental Frequency	:5180 MHz	Temp./Humi.	:25.5 deg_C / 63 RH
Operation Mode	:Bandedge LOW	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
5150.00	E	Average	38.27	8.18	46.45	54.00	-7.55
5150.00	E	Peak	58.84	8.18	67.02	74.00	-6.98

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Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz (MIMO)

Operation Band	:802.11 n40M	Test Date	:2013-09-09
Fundamental Frequency	:5190 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX LOW	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
82.38	S	Peak	35.09	-17.62	17.47	40.00	-22.53
286.08	S	Peak	28.07	-12.66	15.41	46.00	-30.59
529.55	S	Peak	28.94	-8.30	20.64	46.00	-25.36
679.90	S	Peak	27.39	-5.12	22.27	46.00	-23.73
771.08	S	Peak	28.13	-3.96	24.17	46.00	-21.83
945.68	S	Peak	27.58	-1.80	25.78	46.00	-20.22
10380.00	H	Peak	23.22	15.27	38.49	68.30	-29.81
15570.00	H	---					
20760.00	H	---					
25950.00	H	---					
31140.00	H	---					
36330.00	H	---					

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Operation Band	:802.11 n40M	Test Date	:2013-09-09
Fundamental Frequency	:5190 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX LOW	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
115.36	S	Peak	29.89	-14.81	15.08	43.50	-28.42
290.93	S	Peak	27.12	-12.52	14.60	46.00	-31.40
497.54	S	Peak	28.25	-9.01	19.24	46.00	-26.76
649.83	S	Peak	28.54	-5.62	22.92	46.00	-23.08
821.52	S	Peak	27.57	-3.53	24.04	46.00	-21.96
939.86	S	Peak	27.02	-1.86	25.16	46.00	-20.84
10380.00	H	Peak	23.82	15.32	39.14	68.30	-29.16
15570.00	H	---					
20760.00	H	---					
25950.00	H	---					
31140.00	H	---					
36330.00	H	---					

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Operation Band	:802.11 n40M	Test Date	:2013-09-09
Fundamental Frequency	:5230 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX HIGH	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
110.51	S	Peak	33.11	-15.42	17.69	43.50	-25.81
343.31	S	Peak	27.79	-11.53	16.26	46.00	-29.74
538.28	S	Peak	27.99	-8.10	19.89	46.00	-26.11
688.63	S	Peak	27.96	-5.00	22.96	46.00	-23.04
770.11	S	Peak	27.81	-3.96	23.85	46.00	-22.15
850.62	S	Peak	29.05	-3.23	25.82	46.00	-20.18
10460.00	H	Peak	24.52	15.35	39.87	68.30	-28.43
15690.00	H	---					
20920.00	H	---					
26150.00	H	---					
31380.00	H	---					
36610.00	H	---					

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Operation Band	:802.11 n40M	Test Date	:2013-09-09
Fundamental Frequency	:5230 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX HIGH	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
115.36	S	Peak	29.57	-14.81	14.76	43.50	-28.74
250.19	S	Peak	28.78	-13.81	14.97	46.00	-31.03
488.81	S	Peak	28.10	-9.12	18.98	46.00	-27.02
648.86	S	Peak	28.30	-5.64	22.66	46.00	-23.34
772.05	S	Peak	28.35	-3.95	24.40	46.00	-21.60
925.31	S	Peak	27.25	-2.04	25.21	46.00	-20.79
10460.00	H	Peak	24.12	15.43	39.55	68.30	-28.75
15690.00	H	---					
20920.00	H	---					
26150.00	H	---					
31380.00	H	---					
36610.00	H	---					

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Operation Band	:802.11 n40M	Test Date	:2013-09-09
Fundamental Frequency	:5190 MHz	Temp./Humi.	:25.5 deg_C / 63 RH
Operation Mode	:Bandedge LOW	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
5150.00	E	Average	38.72	8.08	46.80	54.00	-7.20
5150.00	E	Peak	59.06	8.08	67.14	74.00	-6.86

Operation Band	:802.11 n40M	Test Date	:2013-09-09
Fundamental Frequency	:5190 MHz	Temp./Humi.	:25.5 deg_C / 63 RH
Operation Mode	:Bandedge LOW	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
5150.00	E	Average	40.26	8.18	48.44	54.00	-5.56
5150.00	E	Peak	60.51	8.18	68.69	74.00	-5.31

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

Operation Band	:802.11 a	Test Date	:2013-09-09
Fundamental Frequency	:5260 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX LOW	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
110.51	S	Peak	34.19	-15.42	18.77	43.50	-24.73
286.08	S	Peak	27.92	-12.66	15.26	46.00	-30.74
535.37	S	Peak	27.70	-8.16	19.54	46.00	-26.46
655.65	S	Peak	28.02	-5.52	22.50	46.00	-23.50
795.33	S	Peak	28.23	-3.78	24.45	46.00	-21.55
936.95	S	Peak	26.78	-1.90	24.88	46.00	-21.12
10520.00	H	Peak	23.65	15.52	39.17	68.30	-29.13
15780.00	H	---					
21040.00	H	---					
26300.00	H	---					
31560.00	H	---					
36820.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-09-09
Fundamental Frequency	:5260 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX LOW	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
113.42	S	Peak	31.71	-15.05	16.66	43.50	-26.84
312.27	S	Peak	27.46	-12.01	15.45	46.00	-30.55
470.38	S	Peak	28.26	-9.33	18.93	46.00	-27.07
646.92	S	Peak	28.71	-5.67	23.04	46.00	-22.96
766.23	S	Peak	27.78	-4.01	23.77	46.00	-22.23
935.01	S	Peak	26.65	-1.92	24.73	46.00	-21.27
10520.00	H	Peak	23.58	15.61	39.19	68.30	-29.11
15780.00	H	---					
21040.00	H	---					
26300.00	H	---					
31560.00	H	---					
36820.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-09-09
Fundamental Frequency	:5300 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX MID	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
82.38	S	Peak	33.57	-17.62	15.95	40.00	-24.05
286.08	S	Peak	28.06	-12.66	15.40	46.00	-30.60
522.76	S	Peak	27.53	-8.45	19.08	46.00	-26.92
698.33	S	Peak	28.09	-4.86	23.23	46.00	-22.77
775.93	S	Peak	27.63	-3.91	23.72	46.00	-22.28
903.00	S	Peak	27.37	-2.42	24.95	46.00	-21.05
10600.00	H	Average	21.36	15.72	37.08	54.00	-16.92
10600.00	H	Peak	23.37	15.72	39.09	74.00	-34.91
15900.00	H	---					
21200.00	H	---					
26500.00	H	---					
31800.00	H	---					
37100.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-09-09
Fundamental Frequency	:5300 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX MID	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
95.96	S	Peak	32.23	-16.89	15.34	43.50	-28.16
317.12	S	Peak	27.57	-11.91	15.66	46.00	-30.34
513.06	S	Peak	27.49	-8.67	18.82	46.00	-27.18
668.26	S	Peak	27.84	-5.31	22.53	46.00	-23.47
827.34	S	Peak	27.44	-3.47	23.97	46.00	-22.03
942.77	S	Peak	27.24	-1.84	25.40	46.00	-20.60
10600.00	H	Average	20.36	15.74	36.10	54.00	-17.90
10600.00	H	Peak	23.70	15.74	39.44	74.00	-34.56
15900.00	H	---					
21200.00	H	---					
26500.00	H	---					
31800.00	H	---					
37100.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-09-09
Fundamental Frequency	:5320 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX HIGH	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
110.51	S	Peak	33.95	-15.42	18.53	43.50	-24.97
349.13	S	Peak	26.97	-11.48	15.49	46.00	-30.51
547.01	S	Peak	27.24	-7.91	19.33	46.00	-26.67
647.89	S	Peak	27.96	-5.66	22.30	46.00	-23.70
764.29	S	Peak	28.75	-4.03	24.72	46.00	-21.28
858.38	S	Peak	27.81	-3.12	24.69	46.00	-21.31
10640.00	H	Average	22.51	15.95	38.46	54.00	-15.54
10640.00	H	Peak	24.23	15.95	40.18	74.00	-33.82
15960.00	H	---					
21280.00	H	---					
26600.00	H	---					
31920.00	H	---					
37240.00	H	---					

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

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Operation Band	:802.11 a	Test Date	:2013-09-09
Fundamental Frequency	:5320 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX HIGH	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
119.24	S	Peak	29.75	-14.34	15.41	43.50	-28.09
238.55	S	Peak	28.37	-14.05	14.32	46.00	-31.68
508.21	S	Peak	27.11	-8.79	18.32	46.00	-27.68
670.20	S	Peak	27.31	-5.28	22.03	46.00	-23.97
813.76	S	Peak	28.00	-3.61	24.39	46.00	-21.61
909.79	S	Peak	27.75	-2.30	25.45	46.00	-20.55
10640.00	H	Average	22.38	15.94	38.32	54.00	-15.68
10640.00	H	Peak	24.86	15.94	40.80	74.00	-33.20
15960.00	H	---					
21280.00	H	---					
26600.00	H	---					
31920.00	H	---					
37240.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-09-09
Fundamental Frequency	:5320 MHz	Temp./Humi.	:25.5 deg_C / 63 RH
Operation Mode	:Bandedge HIGH	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
5350.00	E	Average	39.97	8.24	48.21	54.00	-5.79
5350.00	E	Peak	53.37	8.24	61.61	74.00	-12.39

Operation Band	:802.11 a	Test Date	:2013-09-09
Fundamental Frequency	:5320 MHz	Temp./Humi.	:25.5 deg_C / 63 RH
Operation Mode	:Bandedge HIGH	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
5350.00	E	Average	36.63	8.54	45.17	54.00	-8.83
5350.00	E	Peak	52.29	8.54	60.83	74.00	-13.17

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

Operation Band	:802.11 n20M	Test Date	:2013-09-09
Fundamental Frequency	:5260 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX LOW	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
110.51	S	Peak	33.33	-15.42	17.91	43.50	-25.59
286.08	S	Peak	28.44	-12.66	15.78	46.00	-30.22
511.12	S	Peak	28.37	-8.72	19.65	46.00	-26.35
681.84	S	Peak	27.81	-5.09	22.72	46.00	-23.28
773.99	S	Peak	27.70	-3.93	23.77	46.00	-22.23
916.58	S	Peak	27.60	-2.18	25.42	46.00	-20.58
10520.00	H	Peak	23.92	15.52	39.44	68.30	-28.86
15780.00	H	---					
21040.00	H	---					
26300.00	H	---					
31560.00	H	---					
36820.00	H	---					

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Operation Band	:802.11 n20M	Test Date	:2013-09-09
Fundamental Frequency	:5260 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX LOW	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
117.30	S	Peak	29.58	-14.57	15.01	43.50	-28.49
296.75	S	Peak	26.42	-12.36	14.06	46.00	-31.94
511.12	S	Peak	27.91	-8.72	19.19	46.00	-26.81
642.07	S	Peak	27.63	-5.76	21.87	46.00	-24.13
829.28	S	Peak	27.45	-3.45	24.00	46.00	-22.00
911.73	S	Peak	28.10	-2.27	25.83	46.00	-20.17
10520.00	H	Peak	23.96	15.61	39.57	68.30	-28.73
15780.00	H	---					
21040.00	H	---					
26300.00	H	---					
31560.00	H	---					
36820.00	H	---					

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Operation Band	:802.11 n20M	Test Date	:2013-09-09
Fundamental Frequency	:5300 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX MID	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
110.51	S	Peak	34.61	-15.42	19.19	43.50	-24.31
286.08	S	Peak	28.12	-12.66	15.46	46.00	-30.54
521.79	S	Peak	27.81	-8.48	19.33	46.00	-26.67
680.87	S	Peak	27.60	-5.10	22.50	46.00	-23.50
770.11	S	Peak	28.75	-3.96	24.79	46.00	-21.21
941.80	S	Peak	27.15	-1.85	25.30	46.00	-20.70
10600.00	H	Average	20.36	15.72	36.08	54.00	-17.92
10600.00	H	Peak	22.58	15.72	38.30	74.00	-35.70
15900.00	H	---					
21200.00	H	---					
26500.00	H	---					
31800.00	H	---					
37100.00	H	---					

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Operation Band	:802.11 n20M	Test Date	:2013-09-09
Fundamental Frequency	:5300 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX MID	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
115.36	S	Peak	30.88	-14.81	16.07	43.50	-27.43
239.52	S	Peak	28.95	-14.02	14.93	46.00	-31.07
510.15	S	Peak	27.72	-8.73	18.99	46.00	-27.01
664.38	S	Peak	27.64	-5.37	22.27	46.00	-23.73
811.82	S	Peak	27.22	-3.63	23.59	46.00	-22.41
919.49	S	Peak	27.16	-2.13	25.03	46.00	-20.97
10600.00	H	Average	21.60	15.74	37.34	54.00	-16.66
10600.00	H	Peak	23.11	15.74	38.85	74.00	-35.15
15900.00	H	---					
21200.00	H	---					
26500.00	H	---					
31800.00	H	---					
37100.00	H	---					

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Operation Band	:802.11 n20M	Test Date	:2013-09-09
Fundamental Frequency	:5320 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX HIGH	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
96.93	S	Peak	34.78	-16.82	17.96	43.50	-25.54
351.07	S	Peak	27.35	-11.45	15.90	46.00	-30.10
521.79	S	Peak	29.39	-8.48	20.91	46.00	-25.09
699.30	S	Peak	27.43	-4.84	22.59	46.00	-23.41
732.28	S	Peak	28.22	-4.40	23.82	46.00	-22.18
910.76	S	Peak	27.84	-2.29	25.55	46.00	-20.45
10640.00	H	Average	21.39	15.95	37.34	54.00	-16.66
10640.00	H	Peak	23.82	15.95	39.77	74.00	-34.23
15960.00	H	---					
21280.00	H	---					
26600.00	H	---					
31920.00	H	---					
37240.00	H	---					

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Operation Band	:802.11 n20M	Test Date	:2013-09-09
Fundamental Frequency	:5320 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX HIGH	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
110.51	S	Peak	29.71	-15.42	14.29	43.50	-29.21
314.21	S	Peak	27.37	-11.97	15.40	46.00	-30.60
514.03	S	Peak	27.69	-8.65	19.04	46.00	-26.96
660.50	S	Peak	27.52	-5.44	22.08	46.00	-23.92
817.64	S	Peak	27.78	-3.57	24.21	46.00	-21.79
949.56	S	Peak	27.14	-1.76	25.38	46.00	-20.62
10640.00	H	Average	21.45	15.94	37.39	54.00	-16.61
10640.00	H	Peak	23.25	15.94	39.19	74.00	-34.81
15960.00	H	---					
21280.00	H	---					
26600.00	H	---					
31920.00	H	---					
37240.00	H	---					

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Operation Band	:802.11 n20M	Test Date	:2013-09-09
Fundamental Frequency	:5320 MHz	Temp./Humi.	:25.5 deg_C / 63 RH
Operation Mode	:Bandedge HIGH	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
5350.00	E	Average	38.38	8.24	46.62	54.00	-7.38
5350.00	E	Peak	55.70	8.24	63.94	74.00	-10.06

Operation Band	:802.11 n20M	Test Date	:2013-09-09
Fundamental Frequency	:5320 MHz	Temp./Humi.	:25.5 deg_C / 63 RH
Operation Mode	:Bandedge HIGH	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
5350.00	E	Average	38.55	8.54	47.09	54.00	-6.91
5350.00	E	Peak	56.02	8.54	64.56	74.00	-9.44

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Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz (MIMO)

Operation Band	:802.11 n40M	Test Date	:2013-09-09
Fundamental Frequency	:5270 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX LOW	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
110.51	S	Peak	34.02	-15.42	18.60	43.50	-24.90
343.31	S	Peak	27.07	-11.53	15.54	46.00	-30.46
532.46	S	Peak	28.13	-8.23	19.90	46.00	-26.10
677.96	S	Peak	27.89	-5.15	22.74	46.00	-23.26
722.58	S	Peak	27.62	-4.52	23.10	46.00	-22.90
903.97	S	Peak	27.52	-2.41	25.11	46.00	-20.89
10540.00	H	Peak	23.30	15.62	38.92	68.30	-29.38
15810.00	H	---					
21080.00	H	---					
26350.00	H	---					
31620.00	H	---					
36890.00	H	---					

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Operation Band	:802.11 n40M	Test Date	:2013-09-09
Fundamental Frequency	:5270 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX LOW	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
117.30	S	Peak	29.22	-14.57	14.65	43.50	-28.85
317.12	S	Peak	26.50	-11.91	14.59	46.00	-31.41
509.18	S	Peak	28.35	-8.76	19.59	46.00	-26.41
646.92	S	Peak	27.91	-5.67	22.24	46.00	-23.76
824.43	S	Peak	27.78	-3.50	24.28	46.00	-21.72
931.13	S	Peak	27.82	-1.97	25.85	46.00	-20.15
10540.00	H	Peak	23.70	15.69	39.39	68.30	-28.91
15810.00	H	---					
21080.00	H	---					
26350.00	H	---					
31620.00	H	---					
36890.00	H	---					

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Operation Band	:802.11 n40M	Test Date	:2013-09-09
Fundamental Frequency	:5310 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX HIGH	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
129.91	S	Peak	33.73	-13.59	20.14	43.50	-23.36
343.31	S	Peak	27.70	-11.53	16.17	46.00	-29.83
512.09	S	Peak	28.39	-8.70	19.69	46.00	-26.31
658.56	S	Peak	28.23	-5.47	22.76	46.00	-23.24
778.84	S	Peak	27.42	-3.89	23.53	46.00	-22.47
918.52	S	Peak	28.16	-2.15	26.01	46.00	-19.99
10620.00	H	Average	21.39	15.83	37.22	54.00	-16.78
10620.00	H	Peak	23.10	15.83	38.93	74.00	-35.07
15930.00	H	---					
21240.00	H	---					
26550.00	H	---					
31860.00	H	---					
37170.00	H	---					

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Operation Band	:802.11 n40M	Test Date	:2013-09-09
Fundamental Frequency	:5310 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX HIGH	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
116.33	S	Peak	28.87	-14.70	14.17	43.50	-29.33
318.09	S	Peak	27.42	-11.90	15.52	46.00	-30.48
502.39	S	Peak	28.05	-8.92	19.13	46.00	-26.87
666.32	S	Peak	27.28	-5.34	21.94	46.00	-24.06
785.63	S	Peak	28.03	-3.84	24.19	46.00	-21.81
946.65	S	Peak	26.80	-1.79	25.01	46.00	-20.99
10620.00	H	Average	21.52	15.84	37.36	54.00	-16.64
10620.00	H	Peak	23.19	15.84	39.03	74.00	-34.97
15930.00	H	---					
21240.00	H	---					
26550.00	H	---					
31860.00	H	---					
37170.00	H	---					

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Operation Band	:802.11 n40M	Test Date	:2013-09-09
Fundamental Frequency	:5310 MHz	Temp./Humi.	:25.5 deg_C / 63 RH
Operation Mode	:Bandedge HIGH	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
5350.00	E	Average	37.10	8.24	45.34	54.00	-8.66
5350.00	E	Peak	58.18	8.24	66.42	74.00	-7.58

Operation Band	:802.11 n40M	Test Date	:2013-09-09
Fundamental Frequency	:5310 MHz	Temp./Humi.	:25.5 deg_C / 63 RH
Operation Mode	:Bandedge HIGH	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
5350.00	E	Average	39.56	8.54	48.10	54.00	-5.90
5350.00	E	Peak	62.35	8.54	70.89	74.00	-3.11

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

Operation Band	:802.11 a	Test Date	:2013-09-09
Fundamental Frequency	:5500 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX LOW	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
110.51	S	Peak	33.08	-15.42	17.66	43.50	-25.84
343.31	S	Peak	26.98	-11.53	15.45	46.00	-30.55
547.98	S	Peak	28.42	-7.88	20.54	46.00	-25.46
650.80	S	Peak	28.37	-5.60	22.77	46.00	-23.23
773.99	S	Peak	27.51	-3.93	23.58	46.00	-22.42
949.56	S	Peak	26.91	-1.76	25.15	46.00	-20.85
11000.00	H	Average	22.45	16.33	38.78	54.00	-15.22
11000.00	H	Peak	24.94	16.33	41.27	74.00	-32.73
16500.00	H	---					
22000.00	H	---					
27500.00	H	---					
33000.00	H	---					
38500.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-09-09
Fundamental Frequency	:5500 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX LOW	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
119.24	S	Peak	30.33	-14.34	15.99	43.50	-27.51
268.62	S	Peak	28.31	-13.21	15.10	46.00	-30.90
514.03	S	Peak	29.07	-8.65	20.42	46.00	-25.58
636.25	S	Peak	28.14	-5.86	22.28	46.00	-23.72
816.67	S	Peak	27.31	-3.59	23.72	46.00	-22.28
861.29	S	Peak	28.65	-3.07	25.58	46.00	-20.42
11000.00	H	Average	22.95	16.23	39.18	54.00	-14.82
11000.00	H	Peak	24.09	16.23	40.32	74.00	-33.68
16500.00	H	---					
22000.00	H	---					
27500.00	H	---					
33000.00	H	---					
38500.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-09-09
Fundamental Frequency	:5580 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX MID	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
96.93	S	Peak	34.58	-16.82	17.76	43.50	-25.74
286.08	S	Peak	29.06	-12.66	16.40	46.00	-29.60
542.16	S	Peak	28.25	-8.01	20.24	46.00	-25.76
683.78	S	Peak	27.79	-5.06	22.73	46.00	-23.27
767.20	S	Peak	28.44	-3.99	24.45	46.00	-21.55
946.65	S	Peak	26.51	-1.79	24.72	46.00	-21.28
11160.00	H	Average	23.62	16.88	40.50	54.00	-13.50
11160.00	H	Peak	24.99	16.88	41.87	74.00	-32.13
16740.00	H	---					
22320.00	H	---					
27900.00	H	---					
33480.00	H	---					
39060.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-09-09
Fundamental Frequency	:5580 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX MID	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
115.36	S	Peak	29.97	-14.81	15.16	43.50	-28.34
286.08	S	Peak	27.49	-12.66	14.83	46.00	-31.17
494.63	S	Peak	27.67	-9.05	18.62	46.00	-27.38
637.22	S	Peak	28.31	-5.85	22.46	46.00	-23.54
778.84	S	Peak	27.65	-3.89	23.76	46.00	-22.24
912.70	S	Peak	26.77	-2.25	24.52	46.00	-21.48
11160.00	H	Average	23.33	16.65	39.98	54.00	-14.02
11160.00	H	Peak	24.24	16.65	40.89	74.00	-33.11
16740.00	H	---					
22320.00	H	---					
27900.00	H	---					
33480.00	H	---					
39060.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-09-09
Fundamental Frequency	:5700 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX HIGH	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
96.93	S	Peak	33.59	-16.82	16.77	43.50	-26.73
343.31	S	Peak	28.75	-11.53	17.22	46.00	-28.78
547.01	S	Peak	27.83	-7.91	19.92	46.00	-26.08
688.63	S	Peak	27.18	-5.00	22.18	46.00	-23.82
733.25	S	Peak	27.73	-4.39	23.34	46.00	-22.66
944.71	S	Peak	27.29	-1.82	25.47	46.00	-20.53
11400.00	H	Average	23.55	17.43	40.98	54.00	-13.02
11400.00	H	Peak	25.40	17.43	42.83	74.00	-31.17
17100.00	H	---					
22800.00	H	---					
28500.00	H	---					
34200.00	H	---					
39900.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-09-09
Fundamental Frequency	:5700 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX HIGH	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
118.27	S	Peak	29.12	-14.46	14.66	43.50	-28.84
252.13	S	Peak	28.37	-13.76	14.61	46.00	-31.39
513.06	S	Peak	28.19	-8.67	19.52	46.00	-26.48
669.23	S	Peak	27.22	-5.30	21.92	46.00	-24.08
806.00	S	Peak	27.57	-3.69	23.88	46.00	-22.12
920.46	S	Peak	28.22	-2.12	26.10	46.00	-19.90
11400.00	H	Average	22.44	17.19	39.63	54.00	-14.37
11400.00	H	Peak	24.51	17.19	41.70	74.00	-32.30
17100.00	H	---					
22800.00	H	---					
28500.00	H	---					
34200.00	H	---					
39900.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-09-09
Fundamental Frequency	:5500 MHz	Temp./Humi.	:25.5 deg_C / 63 RH
Operation Mode	:Bandedge LOW	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
5460.00	E	Average	39.11	8.43	47.54	54.00	-6.46
5460.00	E	Peak	53.97	8.43	62.40	74.00	-11.60

Operation Band	:802.11 a	Test Date	:2013-09-09
Fundamental Frequency	:5500 MHz	Temp./Humi.	:25.5 deg_C / 63 RH
Operation Mode	:Bandedge LOW	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
5460.00	E	Average	36.38	8.73	45.11	54.00	-8.89
5460.00	E	Peak	50.11	8.73	58.84	74.00	-15.16

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Operation Band	:802.11 a	Test Date	:2013-09-09
Fundamental Frequency	:5500 MHz	Temp./Humi.	:25.5 deg_C / 63 RH
Operation Mode	:Bandedge LOW	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
5470.00	E	Peak	56.45	8.44	64.89	68.30	-3.41

Operation Band	:802.11 a	Test Date	:2013-09-09
Fundamental Frequency	:5500 MHz	Temp./Humi.	:25.5 deg_C / 63 RH
Operation Mode	:Bandedge LOW	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
5470.00	E	Peak	54.28	8.74	63.02	68.30	-5.28

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Operation Band	:802.11 a	Test Date	:2013-09-09
Fundamental Frequency	:5700 MHz	Temp./Humi.	:25.5 deg_C / 63 RH
Operation Mode	:Bandedge HIGH	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
5725.00	E	Peak	56.95	8.78	65.73	68.30	-2.57

Operation Band	:802.11 a	Test Date	:2013-09-09
Fundamental Frequency	:5700 MHz	Temp./Humi.	:25.5 deg_C / 63 RH
Operation Mode	:Bandedge HIGH	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
5725.00	E	Peak	53.80	9.08	62.88	68.30	-5.42

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

Operation Band	:802.11 n20M	Test Date	:2013-09-09
Fundamental Frequency	:5500 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX LOW	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
128.94	S	Peak	33.47	-13.66	19.81	43.50	-23.69
343.31	S	Peak	26.49	-11.53	14.96	46.00	-31.04
541.19	S	Peak	28.19	-8.04	20.15	46.00	-25.85
705.12	S	Peak	27.50	-4.75	22.75	46.00	-23.25
733.25	S	Peak	27.79	-4.39	23.40	46.00	-22.60
906.88	S	Peak	27.13	-2.36	24.77	46.00	-21.23
11000.00	H	Average	21.84	16.33	38.17	54.00	-15.83
11000.00	H	Peak	23.56	16.33	39.89	74.00	-34.11
16500.00	H	---					
22000.00	H	---					
27500.00	H	---					
33000.00	H	---					
38500.00	H	---					

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Operation Band	:802.11 n20M	Test Date	:2013-09-09
Fundamental Frequency	:5500 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX LOW	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
116.33	S	Peak	28.95	-14.70	14.25	43.50	-29.25
252.13	S	Peak	29.42	-13.76	15.66	46.00	-30.34
466.50	S	Peak	28.29	-9.37	18.92	46.00	-27.08
618.79	S	Peak	28.26	-6.21	22.05	46.00	-23.95
737.13	S	Peak	28.86	-4.34	24.52	46.00	-21.48
863.23	S	Peak	28.81	-3.05	25.76	46.00	-20.24
11000.00	H	Average	22.19	16.23	38.42	54.00	-15.58
11000.00	H	Peak	23.78	16.23	40.01	74.00	-33.99
16500.00	H	---					
22000.00	H	---					
27500.00	H	---					
33000.00	H	---					
38500.00	H	---					

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Operation Band	:802.11 n20M	Test Date	:2013-09-09
Fundamental Frequency	:5580 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX MID	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
129.91	S	Peak	33.17	-13.59	19.58	43.50	-23.92
343.31	S	Peak	26.83	-11.53	15.30	46.00	-30.70
544.10	S	Peak	27.49	-7.97	19.52	46.00	-26.48
644.01	S	Peak	28.46	-5.72	22.74	46.00	-23.26
747.80	S	Peak	27.75	-4.22	23.53	46.00	-22.47
863.23	S	Peak	28.38	-3.05	25.33	46.00	-20.67
11160.00	H	Average	22.76	16.88	39.64	54.00	-14.36
11160.00	H	Peak	23.92	16.88	40.80	74.00	-33.20
16740.00	H	---					
22320.00	H	---					
27900.00	H	---					
33480.00	H	---					
39060.00	H	---					

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Operation Band	:802.11 n20M	Test Date	:2013-09-09
Fundamental Frequency	:5580 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX MID	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
114.39	S	Peak	30.37	-14.93	15.44	43.50	-28.06
254.07	S	Peak	28.52	-13.71	14.81	46.00	-31.19
439.34	S	Peak	28.69	-9.77	18.92	46.00	-27.08
658.56	S	Peak	28.19	-5.47	22.72	46.00	-23.28
804.06	S	Peak	27.43	-3.70	23.73	46.00	-22.27
912.70	S	Peak	27.55	-2.25	25.30	46.00	-20.70
11160.00	H	Average	22.55	16.65	39.20	54.00	-14.80
11160.00	H	Peak	23.72	16.65	40.37	74.00	-33.63
16740.00	H	---					
22320.00	H	---					
27900.00	H	---					
33480.00	H	---					
39060.00	H	---					

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Operation Band	:802.11 n20M	Test Date	:2013-09-09
Fundamental Frequency	:5700 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX HIGH	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
128.94	S	Peak	34.02	-13.66	20.36	43.50	-23.14
343.31	S	Peak	27.30	-11.53	15.77	46.00	-30.23
544.10	S	Peak	27.88	-7.97	19.91	46.00	-26.09
685.72	S	Peak	27.43	-5.05	22.38	46.00	-23.62
733.25	S	Peak	28.09	-4.39	23.70	46.00	-22.30
914.64	S	Peak	27.32	-2.23	25.09	46.00	-20.91
11400.00	H	Average	21.84	17.43	39.27	54.00	-14.73
11400.00	H	Peak	23.84	17.43	41.27	74.00	-32.73
17100.00	H	---					
22800.00	H	---					
28500.00	H	---					
34200.00	H	---					
39900.00	H	---					

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Operation Band	:802.11 n20M	Test Date	:2013-09-09
Fundamental Frequency	:5700 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX HIGH	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
116.33	S	Peak	29.59	-14.70	14.89	43.50	-28.61
321.00	S	Peak	27.26	-11.84	15.42	46.00	-30.58
484.93	S	Peak	27.86	-9.16	18.70	46.00	-27.30
651.77	S	Peak	28.56	-5.59	22.97	46.00	-23.03
815.70	S	Peak	28.18	-3.58	24.60	46.00	-21.40
943.74	S	Peak	26.91	-1.82	25.09	46.00	-20.91
11400.00	H	Average	22.29	17.19	39.48	54.00	-14.52
11400.00	H	Peak	23.54	17.19	40.73	74.00	-33.27
17100.00	H	---					
22800.00	H	---					
28500.00	H	---					
34200.00	H	---					
39900.00	H	---					

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Operation Band	:802.11 n20M	Test Date	:2013-09-09
Fundamental Frequency	:5500 MHz	Temp./Humi.	:25.5 deg_C / 63 RH
Operation Mode	:Bandedge LOW	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
5460.00	E	Average	36.69	8.43	45.12	54.00	-8.88
5460.00	E	Peak	53.02	8.43	61.45	74.00	-12.55

Operation Band	:802.11 n20M	Test Date	:2013-09-09
Fundamental Frequency	:5500 MHz	Temp./Humi.	:25.5 deg_C / 63 RH
Operation Mode	:Bandedge LOW	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
5460.00	E	Average	37.45	8.73	46.18	54.00	-7.82
5460.00	E	Peak	51.15	8.73	59.88	74.00	-14.12

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Operation Band	:802.11 n20M	Test Date	:2013-09-09
Fundamental Frequency	:5500 MHz	Temp./Humi.	:25.5 deg_C / 63 RH
Operation Mode	:Bandedge LOW	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
5470.00	E	Peak	54.04	8.44	62.48	68.30	-5.82

Operation Band	:802.11 n20M	Test Date	:2013-09-09
Fundamental Frequency	:5500 MHz	Temp./Humi.	:25.5 deg_C / 63 RH
Operation Mode	:Bandedge LOW	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
5470.00	E	Peak	54.23	8.74	62.97	68.30	-5.33

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Operation Band	:802.11 n20M	Test Date	:2013-09-09
Fundamental Frequency	:5700 MHz	Temp./Humi.	:25.5 deg_C / 63 RH
Operation Mode	:Bandedge HIGH	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
5725.00	E	Peak	54.94	8.78	63.72	68.30	-4.58

Operation Band	:802.11 n20M	Test Date	:2013-09-09
Fundamental Frequency	:5700 MHz	Temp./Humi.	:25.5 deg_C / 63 RH
Operation Mode	:Bandedge HIGH	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
5725.00	E	Peak	56.20	9.08	65.28	68.30	-3.02

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Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz (MIMO)

Operation Band	:802.11 n40M	Test Date	:2013-09-09
Fundamental Frequency	:5510 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX LOW	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
129.91	S	Peak	33.34	-13.59	19.75	43.50	-23.75
343.31	S	Peak	27.28	-11.53	15.75	46.00	-30.25
524.70	S	Peak	27.85	-8.41	19.44	46.00	-26.56
706.09	S	Peak	26.98	-4.75	22.23	46.00	-23.77
785.63	S	Peak	27.38	-3.84	23.54	46.00	-22.46
907.85	S	Peak	28.21	-2.35	25.86	46.00	-20.14
11020.00	H	Average	21.38	16.46	37.84	54.00	-16.16
11020.00	H	Peak	23.45	16.46	39.91	74.00	-34.09
16530.00	H	---					
22040.00	H	---					
27550.00	H	---					
33060.00	H	---					
38570.00	H	---					

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Operation Band	:802.11 n40M	Test Date	:2013-09-09
Fundamental Frequency	:5510 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX LOW	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
104.69	S	Peak	29.97	-16.06	13.91	43.50	-29.59
314.21	S	Peak	26.74	-11.97	14.77	46.00	-31.23
502.39	S	Peak	27.52	-8.92	18.60	46.00	-27.40
664.38	S	Peak	27.62	-5.37	22.25	46.00	-23.75
823.46	S	Peak	27.69	-3.51	24.18	46.00	-21.82
928.22	S	Peak	27.46	-2.00	25.46	46.00	-20.54
11020.00	H	Average	21.51	16.34	37.85	54.00	-16.15
11020.00	H	Peak	23.54	16.34	39.88	74.00	-34.12
16530.00	H	---					
22040.00	H	---					
27550.00	H	---					
33060.00	H	---					
38570.00	H	---					

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Operation Band	:802.11 n40M	Test Date	:2013-09-09
Fundamental Frequency	:5550 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX MID	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
129.91	S	Peak	35.14	-13.59	21.55	43.50	-21.95
343.31	S	Peak	27.65	-11.53	16.12	46.00	-29.88
523.73	S	Peak	27.95	-8.42	19.53	46.00	-26.47
689.60	S	Peak	27.49	-4.98	22.51	46.00	-23.49
784.66	S	Peak	28.02	-3.86	24.16	46.00	-21.84
905.91	S	Peak	27.16	-2.37	24.79	46.00	-21.21
11100.00	H	Average	21.09	16.63	37.72	54.00	-16.28
11100.00	H	Peak	23.53	16.63	40.16	74.00	-33.84
16650.00	H	---					
22200.00	H	---					
27750.00	H	---					
33300.00	H	---					
38850.00	H	---					

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Operation Band	:802.11 n40M	Test Date	:2013-09-09
Fundamental Frequency	:5550 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX MID	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
110.51	S	Peak	30.54	-15.42	15.12	43.50	-28.38
265.71	S	Peak	28.12	-13.33	14.79	46.00	-31.21
508.21	S	Peak	29.22	-8.79	20.43	46.00	-25.57
646.92	S	Peak	28.05	-5.67	22.38	46.00	-23.62
772.05	S	Peak	27.60	-3.95	23.65	46.00	-22.35
944.71	S	Peak	27.23	-1.82	25.41	46.00	-20.59
11100.00	H	Average	21.15	16.45	37.60	54.00	-16.40
11100.00	H	Peak	23.30	16.45	39.75	74.00	-34.25
16650.00	H	---					
22200.00	H	---					
27750.00	H	---					
33300.00	H	---					
38850.00	H	---					

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Operation Band	:802.11 n40M	Test Date	:2013-09-09
Fundamental Frequency	:5670 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX HIGH	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
129.91	S	Peak	33.74	-13.59	20.15	43.50	-23.35
343.31	S	Peak	27.19	-11.53	15.66	46.00	-30.34
537.31	S	Peak	27.58	-8.13	19.45	46.00	-26.55
690.57	S	Peak	27.79	-4.97	22.82	46.00	-23.18
864.20	S	Peak	27.17	-3.03	24.14	46.00	-21.86
950.53	S	Peak	27.08	-1.75	25.33	46.00	-20.67
11340.00	H	Average	21.06	17.36	38.42	54.00	-15.58
11340.00	H	Peak	23.75	17.36	41.11	74.00	-32.89
17010.00	H	---					
22680.00	H	---					
28350.00	H	---					
34020.00	H	---					
39690.00	H	---					

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Operation Band	:802.11 n40M	Test Date	:2013-09-09
Fundamental Frequency	:5670 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX HIGH	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
156.10	S	Peak	26.99	-11.97	15.02	43.50	-28.48
238.55	S	Peak	29.01	-14.05	14.96	46.00	-31.04
411.21	S	Peak	27.89	-10.46	17.43	46.00	-28.57
554.77	S	Peak	27.69	-7.74	19.95	46.00	-26.05
740.04	S	Peak	28.05	-4.31	23.74	46.00	-22.26
935.01	S	Peak	27.42	-1.92	25.50	46.00	-20.50
11340.00	H	Average	21.25	17.10	38.35	54.00	-15.65
11340.00	H	Peak	24.56	17.10	41.66	74.00	-32.34
17010.00	H	---					
22680.00	H	---					
28350.00	H	---					
34020.00	H	---					
39690.00	H	---					

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Operation Band	:802.11 n40	Test Date	:2013-09-09
Fundamental Frequency	:5510 MHz	Temp./Humi.	:25.5 deg_C / 63 RH
Operation Mode	:Bandedge LOW	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
5460.00	E	Average	34.54	8.43	42.97	54.00	-11.03
5460.00	E	Peak	54.42	8.43	62.85	74.00	-11.15

Operation Band	:802.11 n40	Test Date	:2013-09-09
Fundamental Frequency	:5510 MHz	Temp./Humi.	:25.5 deg_C / 63 RH
Operation Mode	:Bandedge LOW	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
5460.00	E	Average	33.84	8.73	42.57	54.00	-11.43
5460.00	E	Peak	51.69	8.73	60.42	74.00	-13.58

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Operation Band	:802.11 n40	Test Date	:2013-09-09
Fundamental Frequency	:5510 MHz	Temp./Humi.	:25.5 deg_C / 63 RH
Operation Mode	:Bandedge LOW	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
5470.00	E	Peak	57.44	8.44	65.88	68.30	-2.42

Operation Band	:802.11 n40	Test Date	:2013-09-09
Fundamental Frequency	:5510 MHz	Temp./Humi.	:25.5 deg_C / 63 RH
Operation Mode	:Bandedge LOW	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
5470.00	E	Peak	55.43	8.74	64.17	68.30	-4.13

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Operation Band	:802.11 n40M	Test Date	:2013-09-09
Fundamental Frequency	:5670 MHz	Temp./Humi.	:25.5 deg_C / 63 RH
Operation Mode	:Bandedge HIGH	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
5725.00	E	Peak	51.55	8.78	60.33	68.30	-7.97

Operation Band	:802.11 n40M	Test Date	:2013-09-09
Fundamental Frequency	:5670 MHz	Temp./Humi.	:25.5 deg_C / 63 RH
Operation Mode	:Bandedge HIGH	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

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

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
5725.00	E	Peak	53.53	9.08	62.61	68.30	-5.69

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Simultaneous Transmission (Bluetooth 2441 MHz with 802.11n_HT20 (5220MHz))

Operation Band	:EDR & 802.11a	Test Date	:2013-09-18
Fundamental Frequency	:2441 MHz & 5220 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX MID	Engineer	:Allen
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
99.84	S	Peak	33.37	-16.61	16.76	43.50	-26.74
286.08	S	Peak	28.57	-12.66	15.91	46.00	-30.09
379.20	S	Peak	31.15	-11.02	20.13	46.00	-25.87
411.21	S	Peak	32.61	-10.46	22.15	46.00	-23.85
468.44	S	Peak	31.74	-9.35	22.39	46.00	-23.61
870.99	S	Peak	31.79	-2.93	28.86	46.00	-17.14
4882.00	H	Peak	37.54	7.40	44.94	68.30	-23.36
10440.00	H	Peak	19.27	15.21	34.48	68.30	-33.82
15660.00	H	---					
20880.00	H	---					
26100.00	H	---					
31320.00	H	---					
36540.00	H	---					

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Operation Band	:EDR & 802.11a	Test Date	:2013-09-18
Fundamental Frequency	:2441 MHz & 5220 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX MID	Engineer	:Allen
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

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

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV / m	dBμV / m	dB
60.07	S	Peak	29.75	-14.35	15.40	40.00	-24.60
379.20	S	Peak	34.63	-11.02	23.61	46.00	-22.39
411.21	S	Peak	37.61	-10.46	27.15	46.00	-18.85
468.44	S	Peak	38.94	-9.35	29.59	46.00	-16.41
779.81	S	Peak	38.88	-3.88	35.00	46.00	-11.00
931.13	S	Peak	31.21	-1.97	29.24	46.00	-16.76
4882.00	H	Peak	39.20	7.34	46.54	68.30	-21.76
10440.00	H	Peak	19.37	15.29	34.66	68.30	-33.64
15660.00	H	---					
20880.00	H	---					
26100.00	H	---					
31320.00	H	---					
36540.00	H	---					

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13. TRANSMISSION IN THE ABSENCE OF DATA

13.1 Standard Applicable

According to §15.407(c)

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

13.2 Result:

No non-compliance noted:

Refer to the theory of operation.

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14. FREQUENCY STABILITY

14.1 Standard Applicable

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

14.2 Result:

Refer to next page for plots.

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Operation Mode	802.11 a	Test Date	2013,9,10
Temperature	:25 °C	Test By	Cooper
Humidity	:62 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
25 °C	3.7V	36	5180.0000	5,179.984551	0.0154
		44	5220.0000	5,219.987351	0.0126
		48	5240.0000	5,239.983751	0.0162
		52	5260.0000	5,259.982251	0.0177
		60	5300.0000	5,299.985551	0.0144
		64	5320.0000	5,319.983016	0.0170
		100	5500.0000	5,499.981783	0.0182
		116	5580.0000	5,579.986712	0.0133
		140	5700.0000	5,699.980350	0.0197
40 °C	3.4V	36	5180.0000	5,179.984651	0.0153
		44	5220.0000	5,219.987451	0.0125
		48	5240.0000	5,239.983851	0.0161
		52	5260.0000	5,259.982351	0.0176
		60	5300.0000	5,299.985451	0.0145
		64	5320.0000	5,319.983776	0.0162
		100	5500.0000	5,499.981873	0.0181
		116	5580.0000	5,579.986142	0.0139
		140	5700.0000	5,699.985450	0.0145
40 °C	4.2V	36	5180.0000	5,179.984335	0.0157
		44	5220.0000	5,219.987791	0.0122
		48	5240.0000	5,239.983431	0.0166
		52	5260.0000	5,259.982521	0.0175
		60	5300.0000	5,299.985661	0.0143
		64	5320.0000	5,319.983146	0.0169
		100	5500.0000	5,499.981893	0.0181
		116	5580.0000	5,579.986612	0.0134
		140	5700.0000	5,699.980450	0.0195

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0 °C	3.4V	36	5180.0000	5,179.984550	0.0154
		44	5220.0000	5,219.987341	0.0127
		48	5240.0000	5,239.983831	0.0162
		52	5260.0000	5,259.982461	0.0175
		60	5300.0000	5,299.985751	0.0142
		64	5320.0000	5,319.983126	0.0169
		100	5500.0000	5,499.981773	0.0182
		116	5580.0000	5,579.986642	0.0134
		140	5700.0000	5,699.980353	0.0196
0 °C	4.2V	36	5180.0000	5,179.984544	0.0155
		44	5220.0000	5,219.987371	0.0126
		48	5240.0000	5,239.983771	0.0162
		52	5260.0000	5,259.982531	0.0175
		60	5300.0000	5,299.985931	0.0141
		64	5320.0000	5,319.983126	0.0169
		100	5500.0000	5,499.981633	0.0184
		116	5580.0000	5,579.986712	0.0133
		140	5700.0000	5,699.980350	0.0197

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Operation Mode	802.11n_HT20	Test Date	2013,9,10
Temperature	:25 °C	Test By	Cooper
Humidity	:62 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
25 °C	3.7V	36	5180.0000	5,179.949730	0.0503
		44	5220.0000	5,219.949840	0.0502
		48	5240.0000	5,239.949990	0.0500
		52	5260.0000	5,259.949100	0.0509
		60	5300.0000	5,299.949320	0.0507
		64	5320.0000	5,319.948280	0.0517
		100	5500.0000	5,499.946530	0.0535
		116	5580.0000	5,579.945460	0.0545
		140	5700.0000	5,699.944470	0.0555
40 °C	3.4V	36	5180.0000	5,179.949770	0.0502
		44	5220.0000	5,219.949880	0.0501
		48	5240.0000	5,239.949790	0.0502
		52	5260.0000	5,259.949190	0.0508
		60	5300.0000	5,299.949540	0.0505
		64	5320.0000	5,319.948460	0.0515
		100	5500.0000	5,499.946670	0.0533
		116	5580.0000	5,579.945780	0.0542
		140	5700.0000	5,699.944650	0.0553
40 °C	4.2V	36	5180.0000	5,179.949740	0.0503
		44	5220.0000	5,219.949540	0.0505
		48	5240.0000	5,239.949780	0.0502
		52	5260.0000	5,259.949140	0.0509
		60	5300.0000	5,299.949670	0.0503
		64	5320.0000	5,319.948780	0.0512
		100	5500.0000	5,499.946990	0.0530
		116	5580.0000	5,579.945440	0.0546
		140	5700.0000	5,699.944340	0.0557

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0 °C	3.4V	36	5180.0000	5,179.949780	0.0502
		44	5220.0000	5,219.949120	0.0509
		48	5240.0000	5,239.949170	0.0508
		52	5260.0000	5,259.949450	0.0505
		60	5300.0000	5,299.949490	0.0505
		64	5320.0000	5,319.948570	0.0514
		100	5500.0000	5,499.946690	0.0533
		116	5580.0000	5,579.945840	0.0542
		140	5700.0000	5,699.944160	0.0558
0 °C	4.2V	36	5180.0000	5,179.949340	0.0507
		44	5220.0000	5,219.949520	0.0505
		48	5240.0000	5,239.949740	0.0503
		52	5260.0000	5,259.949190	0.0508
		60	5300.0000	5,299.949220	0.0508
		64	5320.0000	5,319.948660	0.0513
		100	5500.0000	5,499.946710	0.0533
		116	5580.0000	5,579.945700	0.0543
		140	5700.0000	5,699.944600	0.0554

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Operation Mode	802.11 n_HT40	Test Date	2013,9,10
Temperature	:25 °C	Test By	Cooper
Humidity	:62 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
25 °C	3.7V	38	5190.0000	5,189.993716	0.0063
		46	5230.0000	5,229.993733	0.0063
		54	5270.0000	5,269.993439	0.0066
		62	5310.0000	5,309.993417	0.0066
		102	5510.0000	5,509.993315	0.0067
		110	5550.0000	5,549.993082	0.0069
		134	5670.0000	5,669.993082	0.0069
40 °C	3.4V	38	5190.0000	5,189.994716	0.0053
		46	5230.0000	5,229.993833	0.0062
		54	5270.0000	5,269.993339	0.0067
		62	5310.0000	5,309.993117	0.0069
		102	5510.0000	5,509.993215	0.0068
		110	5550.0000	5,549.993182	0.0068
		134	5670.0000	5,669.993082	0.0069
40 °C	4.2V	38	5190.0000	5,189.993416	0.0066
		46	5230.0000	5,229.993633	0.0064
		54	5270.0000	5,269.993539	0.0065
		62	5310.0000	5,309.993717	0.0063
		102	5510.0000	5,509.993115	0.0069
		110	5550.0000	5,549.993382	0.0066
		134	5670.0000	5,669.993282	0.0067

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0 °C	3.4V	38	5190.0000	5,189.993416	0.0066
		46	5230.0000	5,229.993633	0.0064
		54	5270.0000	5,269.993539	0.0065
		62	5310.0000	5,309.993517	0.0065
		102	5510.0000	5,509.993415	0.0066
		118	5550.0000	5,549.993382	0.0066
		134	5670.0000	5,669.993382	0.0066
0 °C	4.2V	38	5190.0000	5,189.993816	0.0062
		46	5230.0000	5,229.993833	0.0062
		54	5270.0000	5,269.993339	0.0067
		62	5310.0000	5,309.993317	0.0067
		102	5510.0000	5,509.993415	0.0066
		110	5550.0000	5,549.993482	0.0065
		134	5670.0000	5,669.993182	0.0068

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15. ANTENNA REQUIREMENT

15.1 Standard Applicable

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

15.2 Antenna Connected Construction

The directional gains of antenna used for transmitting is 0.56dBi for frequency band of 5150~5725MHz, 0.686765dBi for (5150~5250MHz_MIMO gain), 0.688740dBi for (5250~5350MHz_MIMO gain), and 0.975761dBi for (5470~5725MHz_MIMO Gain). and the antenna connector is designed with unique type RF connector and no consideration of replacement. Please see EUT photo and antenna spec. for details.

~ End of Report ~

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