



Test Report

Product Name	Notebook PC
Model No	TAICHI21
FCC ID	MSQTAICHI21

Applicant	ASUSTeK COMPUTER INC.
Address	4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan, R.O.C.

Date of Receipt	Aug. 20, 2012
Issued Date	Sep. 28, 2012
Report No.	128392R-RFUSP46V01
Report Version	V1.0



The test results relate only to the samples tested.

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This report must not be used to claim product endorsement by NVLAP any agency of the U.S. Government

Test Report Certification

Issued Date: Sep. 28, 2012

Report No.: 128392R-RFUSP46V01



Product Name	Notebook PC
Applicant	ASUSTeK COMPUTER INC.
Address	4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan, R.O.C.
Manufacturer	1. PEGATRON CORPORATION Taoyuan Mfg 2. Protek (Shanghai) Limited. 3. Tech-Com(Shanghai) Computer Co. Ltd. 4. Tech-Front (Chongqing) Computer Co.,Ltd. 5. Compal Information Technology (Kunshan) Co., Ltd 6. Digitek (Chongqing) Limited
Model No.	TAICHI21
FCC ID.	MSQTAICHI21
EUT Rated Voltage	AC 100-240V, 50-60Hz
EUT Test Voltage	AC 120V/60Hz
Trade Name	ASUS
Applicable Standard	FCC CFR Title 47 Part 15 Subpart E: 2010 ANSI C63.4: 2003, FCC KDB-789033
Test Result	Complied

The Test Results relate only to the samples tested.

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Documented By : Anita Chou
(Senior Engineering Adm. Specialist /
Anita Chou)

Tested By : Jack Hsu
(Engineer / Jack Hsu)

Approved By : Vincent Lin
(Manager /Vincent Lin)

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1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Notebook PC
Trade Name	ASUS
FCC ID.	MSQTAICH121
Model No.	TAICH121
Frequency Range	802.11a/n-20MHz: 5180-5320MHz, 5500-5700MHz 802.11n-40MHz: 5190-5310, 5510-5670MHz
Number of Channels	802.11a/n-20MHz: 19; 802.11n-40MHz: 9
Data Rate	802.11a: 6 - 54Mbps 802.11n: up to 300Mbps
Channel Control	Auto
Type of Modulation	802.11a/n:OFDM, BPSK, QPSK, 16QAM, 64QAM
Antenna Type	PIFA
Antenna Gain	Refer to the table "Antenna List"
Power Adapter	MFR: Delta (ASUS), M/N: ADP-45AW A Input: AC 100-240V~1.2A, 50-60Hz Output: DC 19V, 2.37A Cable Out: Non-shielded, 2.5m
Battery	ASUS, C32-TAICH121 (+11.1V, 3200mAh, 32Wh)
Contain Module	Intel / 6235ANHMW

Antenna List

No.	Manufacturer	Model No.	Peak Gain
1	INPAQ	WA-F-LB-04-004	0.22dBi For 5.15~5.35GHz 1.16dBi For 5.47~5.725GHz
2	Foxconn	WDAN-IJU26V01-DH	2.27dBi For 5.15~5.35GHz 2.91dBi For 5.47~5.725GHz

Note:

1. The antenna of EUT is conform to FCC 15.203
2. Only the higher gain antenna was tested and recorded in this report.

Note:

1. This device is a Notebook PC , Contains functions and so on WiFi・Bluetooth・NFC , This report for WiFi.
2. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
3. Lowest and highest data rates are tested in each mode. Only worst case is shown in the report. (802.11a is 6Mbps 、 802.11n(20M-BW) is 14.4Mbps and 、 802.11n(40M-BW) is 30Mbps).
4. At result of pretests, module supports dual-channel transmission, only the worst case is shown in the report. (802.11a is chain B 、 802.11n is chain A+ chain B)
5. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart E for Unlicensed National Information Infrastructure devices.
6. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.
7. At result of pretests, EUT support NB mode and PAD mode, only the worst case (NB mode) is shown in the report.

802.11a/n-20MHz Center Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 36:	5180 MHz	Channel 40:	5200 MHz	Channel 44:	5220 MHz	Channel 48:	5240 MHz
Channel 52:	5260 MHz	Channel 56:	5280 MHz	Channel 60:	5300 MHz	Channel 64:	5320 MHz
Channel 100:	5500 MHz	Channel 104:	5520 MHz	Channel 108:	5540 MHz	Channel 112:	5560 MHz
Channel 116:	5580 MHz	Channel 120:	5600 MHz	Channel 124:	5620 MHz	Channel 128:	5640 MHz
Channel 132:	5660 MHz	Channel 136:	5680 MHz	Channel 140:	5700 MHz		

802.11n-40MHz Center Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 38:	5190 MHz	Channel 46:	5230 MHz	Channel 54:	5270 MHz	Channel 62:	5310 MHz
Channel 102:	5510 MHz	Channel 110:	5550 MHz	Channel 118:	5590 MHz	Channel 126:	5630 MHz
Channel 134:	5670 MHz						

Test Mode	Mode 1: Transmit (802.11a-6Mbps) Mode 2: Transmit (802.11n-20BW 14.4Mbps) Mode 3: Transmit (802.11n-40BW 30Mbps)
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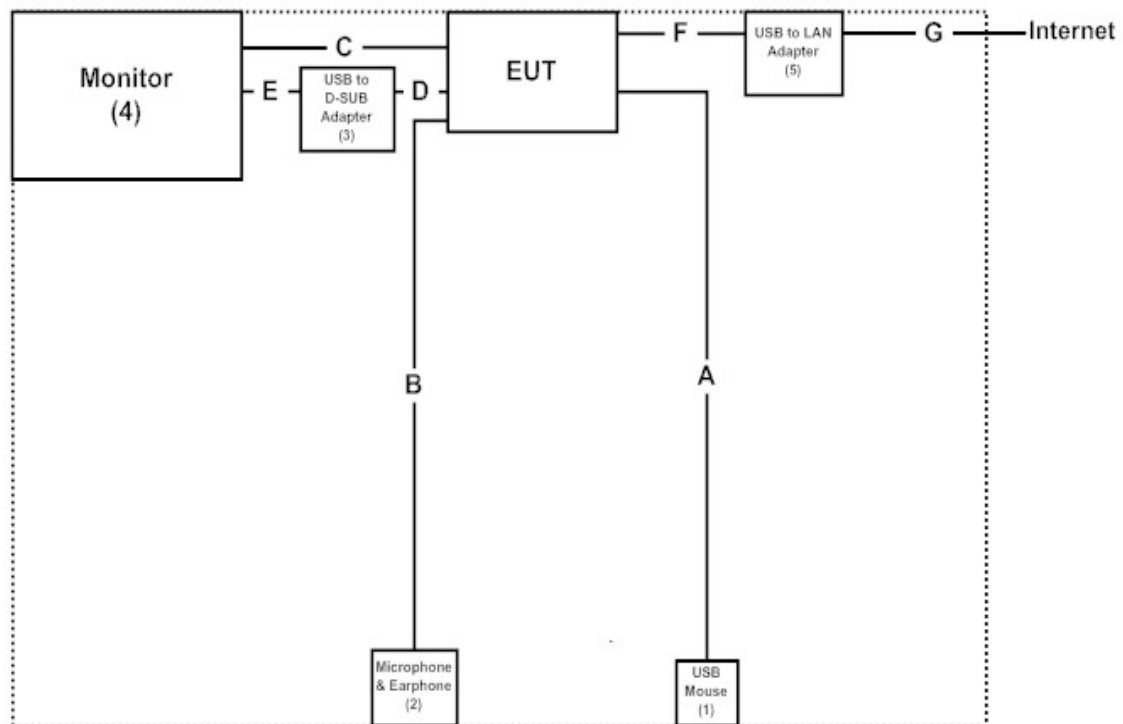
1.3. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product	Manufacturer	Model No.	Serial No.	Power Cord
(1) USB Mouse	DELL	MO56UOA	G0Y02ERZ	N/A
(2) Microphone & Earphone	Ergotech	ET-E201	N/A	N/A
(3) USB to D-SUB Adapter	ASUS	N/A	N/A	N/A
(4) Monitor	DELL	ST2320LF	CN-OM2NN6-72872-22I-C9VS	Non-Shielded, 1.8m
(5) USB to LAN Adapter	ASUS	N/A	N/A	N/A

Signal Cable Type	Signal cable Description
A Mouse Cable	Non-Shielded, 1.8m
B Earphone & Microphone Cable	Non-Shielded, 1.8m
C HDMI Cable	Non-Shielded, 1.7m
D USB to D-SUB Cable	Non-Shielded, 0.025m
E D-SUB Cable	Non-Shielded, 1.7m
F USB to LAN Cable	Non-Shielded, 0.08m
G LAN Cable	Non-Shielded, 2.0m

1.4. Configuration of tested System



1.5. EUT Exercise Software

- (1) Setup the EUT as shown in Section 1.4
- (2) Execute software on the EUT.
- (3) Configure the test mode, the test channel, and the data rate.
- (4) Press “OK” to start the continuous Transmit.
- (5) Verify that the EUT works properly.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	50-65
Barometric pressure (mbar)	860-1060	950-1000

The related certificate for our laboratories about the test site and management system can be downloaded from Quietek Corporation's Web Site : <http://www.quietek.com/tw/ctg/cts/accreditations.htm>

The address and introduction of Quietek Corporation's laboratories can be founded in our Web site : <http://www.quietek.com/>

Site Description: File on
Federal Communications Commission
FCC Engineering Laboratory
7435 Oakland Mills Road
Columbia, MD 21046
Registration Number: 92195

Accreditation on NVLAP
NVLAP Lab Code: 200533-0

Site Name: Quietek Corporation
Site Address: No.5-22, Ruishukeng Linkou Dist., New Taipei City
24451, Taiwan, R.O.C.
TEL: 886-2-8601-3788 / FAX : 886-2-8601-3789
E-Mail : service@quietek.com

FCC Accreditation Number: TW1014

2. Conducted Emission

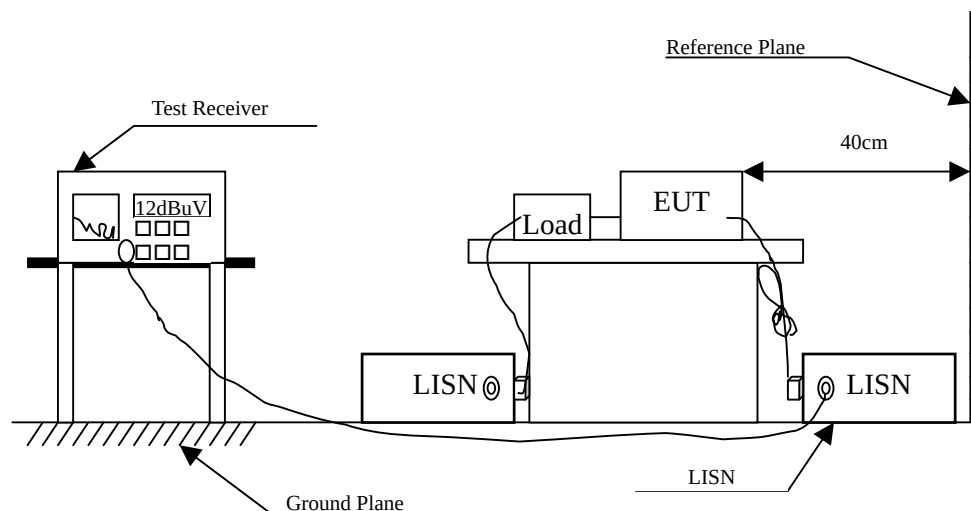
2.1. Test Equipment

	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.	Remark
X	Test Receiver	R & S	ESCS 30 / 825442/018	Sep., 2012	
X	Artificial Mains Network	R & S	ENV4200 / 848411/10	Feb., 2012	Peripherals
X	LISN	R & S	ESH3-Z5 / 825562/002	Feb., 2012	EUT
	DC LISN	Schwarzbeck	8226 / 176	Mar, 2012	EUT
X	Pulse Limiter	R & S	ESH3-Z2 / 357.8810.52	Feb., 2012	
	No.1 Shielded Room				

Note:

1. All equipments are calibrated every one year.
2. The test instruments marked by "X" are used to measure the final test results.

2.2. Test Setup



2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 (dBuV) Limit		
Frequency MHz	Limits	
	QP	AV
0.15 - 0.50	66-56	56-46
0.50-5.0	56	46
5.0 - 30	60	50

Remarks : In the above table, the tighter limit applies at the band edges.

2.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.

Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

The EUT was setup to ANSI C63.4, 2003; tested to DTS test procedure of FCC KDB-789033 for compliance to FCC 47CFR Subpart E requirements.

2.5. Uncertainty

± 2.26 dB

2.6. Test Result of Conducted Emission

Product : Notebook PC
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 3: Transmit (802.11n-40BW 30Mbps) (5190MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
LINE 1					
Quasi-Peak					
0.166	9.830	36.760	46.590	-18.953	65.543
0.205	9.830	31.400	41.230	-23.199	64.429
0.271	9.830	21.520	31.350	-31.193	62.543
0.427	9.830	22.630	32.460	-25.626	58.086
1.888	9.840	19.330	29.170	-26.830	56.000
12.334	10.044	16.160	26.204	-33.796	60.000
Average					
0.166	9.830	23.120	32.950	-22.593	55.543
0.205	9.830	17.100	26.930	-27.499	54.429
0.271	9.830	10.000	19.830	-32.713	52.543
0.427	9.830	17.630	27.460	-20.626	48.086
1.888	9.840	13.390	23.230	-22.770	46.000
12.334	10.044	11.230	21.274	-28.726	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ ” means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Notebook PC
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 3: Transmit (802.11n-40BW 30Mbps) (5190MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV	dB	dBuV
LINE 2					
Quasi-Peak					
0.162	9.839	39.950	49.789	-15.868	65.657
0.181	9.833	31.590	41.423	-23.691	65.114
0.236	9.830	26.810	36.640	-26.903	63.543
0.283	9.831	21.110	30.941	-31.259	62.200
0.416	9.840	20.180	30.020	-28.380	58.400
1.420	9.850	18.660	28.510	-27.490	56.000
Average					
0.162	9.839	24.560	34.399	-21.258	55.657
0.181	9.833	15.490	25.323	-29.791	55.114
0.236	9.830	12.510	22.340	-31.203	53.543
0.283	9.831	8.260	18.091	-34.109	52.200
0.416	9.840	10.380	20.220	-28.180	48.400
1.420	9.850	13.430	23.280	-22.720	46.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ ” means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Notebook PC
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 3: Transmit (802.11n-40BW 30Mbps) (5270MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV	dB	dBuV
LINE 1					
Quasi-Peak					
0.150	9.830	38.480	48.310	-17.690	66.000
0.197	9.830	31.770	41.600	-23.057	64.657
0.248	9.830	25.070	34.900	-28.300	63.200
0.326	9.830	20.170	30.000	-30.971	60.971
1.423	9.830	19.450	29.280	-26.720	56.000
4.048	9.860	15.010	24.870	-31.130	56.000
Average					
0.150	9.830	25.360	35.190	-20.810	56.000
0.197	9.830	17.930	27.760	-26.897	54.657
0.248	9.830	12.760	22.590	-30.610	53.200
0.326	9.830	11.190	21.020	-29.951	50.971
1.423	9.830	15.050	24.880	-21.120	46.000
4.048	9.860	5.340	15.200	-30.800	46.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ ” means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Notebook PC
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 3: Transmit (802.11n-40BW 30Mbps) (5270MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV	dB	dBuV
LINE 2					
Quasi-Peak					
0.154	9.840	41.180	51.020	-14.866	65.886
0.185	9.832	32.030	41.862	-23.138	65.000
0.236	9.830	28.050	37.880	-25.663	63.543
0.443	9.840	23.420	33.260	-24.369	57.629
1.654	9.860	18.090	27.950	-28.050	56.000
3.896	9.870	15.290	25.160	-30.840	56.000
Average					
0.154	9.840	24.310	34.150	-21.736	55.886
0.185	9.832	15.780	25.612	-29.388	55.000
0.236	9.830	13.560	23.390	-30.153	53.543
0.443	9.840	16.920	26.760	-20.869	47.629
1.654	9.860	12.960	22.820	-23.180	46.000
3.896	9.870	5.050	14.920	-31.080	46.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ ” means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Notebook PC
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 3: Transmit (802.11n-40BW 30Mbps) (5550MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV	dB	dBuV
LINE 1					
Quasi-Peak					
0.162	9.830	37.770	47.600	-18.057	65.657
0.193	9.830	30.610	40.440	-24.331	64.771
0.236	9.830	26.790	36.620	-26.923	63.543
0.447	9.830	23.250	33.080	-24.434	57.514
1.556	9.840	20.070	29.910	-26.090	56.000
12.275	10.043	16.200	26.243	-33.757	60.000
Average					
0.162	9.830	25.060	34.890	-20.767	55.657
0.193	9.830	16.140	25.970	-28.801	54.771
0.236	9.830	15.340	25.170	-28.373	53.543
0.447	9.830	17.570	27.400	-20.114	47.514
1.556	9.840	15.920	25.760	-20.240	46.000
12.275	10.043	11.230	21.273	-28.727	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “” means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Notebook PC
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 3: Transmit (802.11n-40BW 30Mbps) (5550MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV	dB	dBuV
LINE 2					
Quasi-Peak					
0.173	9.836	35.650	45.486	-19.857	65.343
0.209	9.830	30.450	40.280	-24.034	64.314
0.255	9.830	24.870	34.700	-28.300	63.000
0.423	9.840	21.920	31.760	-26.440	58.200
1.541	9.860	18.260	28.120	-27.880	56.000
10.255	10.056	16.430	26.486	-33.514	60.000
Average					
0.173	9.836	19.140	28.976	-26.367	55.343
0.209	9.830	15.670	25.500	-28.814	54.314
0.255	9.830	9.670	19.500	-33.500	53.000
0.423	9.840	14.060	23.900	-24.300	48.200
1.541	9.860	13.740	23.600	-22.400	46.000
10.255	10.056	11.390	21.446	-28.554	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ ” means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

3. Maximun conducted output power

3.1. Test Equipment

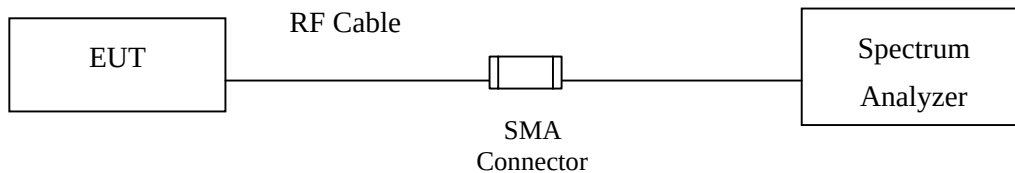
	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Power Meter	Anritsu	ML2495A/6K00003357	May, 2012
X	Power Sensor	Anritsu	MA2411B/0738448	Jun, 2012
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2012

Note:

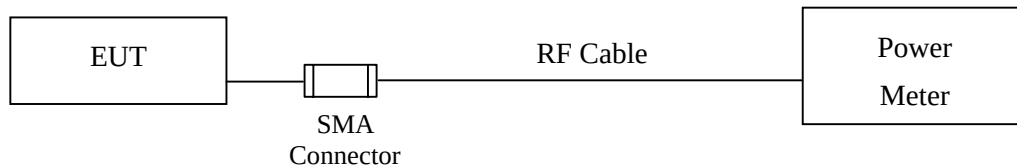
1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with “X” are used to measure the final test results.

3.2. Test Setup

26dBc Occupied Bandwidth



Conduction Power Measurement



3.3. Limits

- (1) For the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 50 mW or $4 \text{ dBm} + 10\log B$, where B is the 26-dB emission bandwidth in MHz. If transmitting antenna of directional gain greater than 6 dBi are used, the Maximum conducted output power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
- (2) For the band 5.25-5.35 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10\log B$, where B is the 26-dB emission bandwidth in MHz. If transmitting antenna of directional gain greater than 6 dBi are used, the Maximum conducted output power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
- (3) For the band 5.725-5.825 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 1W or $17 \text{ dBm} + 10\log B$, where B is the 26-dB emission bandwidth in MHz. If transmitting antenna of directional gain greater than 6 dBi are used, the Maximum conducted output power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.

3.4. Test Procedure

As an alternative to FCC KDB-789033, the EUT maximum conducted output power was measured with an average power meter employing a video bandwidth greater than 6dB BW of the emission under test. Maximum conducted output power was read directly from the meter across all data rates, and across three channels within each sub-band. Special care was used to make sure that the EUT was transmitting in continuous mode. This method exceeds the limitations of FCC KDB-789033, and provides more accurate measurements.

3.5. Uncertainty

$\pm 1.27 \text{ dB}$

3.6. Test Result of Maximum conducted output power

Product : Notebook PC
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11a-6Mbps)

CHAIN A

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	11.84	--	--	--	--	--	--	--	<17dBm
44	5220	10.69	10.54	10.45	10.34	10.23	10.13	10.09	10.02	<17dBm
48	5240	11.38	--	--	--	--	--	--	--	<17dBm
52	5260	11.5	--	--	--	--	--	--	--	<24dBm
60	5300	11.31	11.27	11.22	11.14	11.11	11.06	11.03	10.99	<24dBm
64	5320	11.18	--	--	--	--	--	--	--	<24dBm
100	5500	11.42	--	--	--	--	--	--	--	<24dBm
116	5580	11.09	11	10.94	10.91	10.84	10.81	10.77	10.73	<24dBm
140	5700	10.63	--	--	--	--	--	--	--	<24dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

CHAIN B

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	12.53	--	--	--	--	--	--	--	<17dBm
44	5220	14.06	13.94	13.88	13.83	13.77	13.74	13.68	13.61	<17dBm
48	5240	14.28	--	--	--	--	--	--	--	<17dBm
52	5260	14.07	--	--	--	--	--	--	--	<24dBm
60	5300	14.28	14.23	14.16	14.11	14.06	14.03	13.93	13.88	<24dBm
64	5320	14.13	--	--	--	--	--	--	--	<24dBm
100	5500	14.95	--	--	--	--	--	--	--	<24dBm
116	5580	13.78	13.64	13.51	13.39	13.23	13.11	13.02	12.87	<24dBm
140	5700	13.81	--	--	--	--	--	--	--	<24dBm

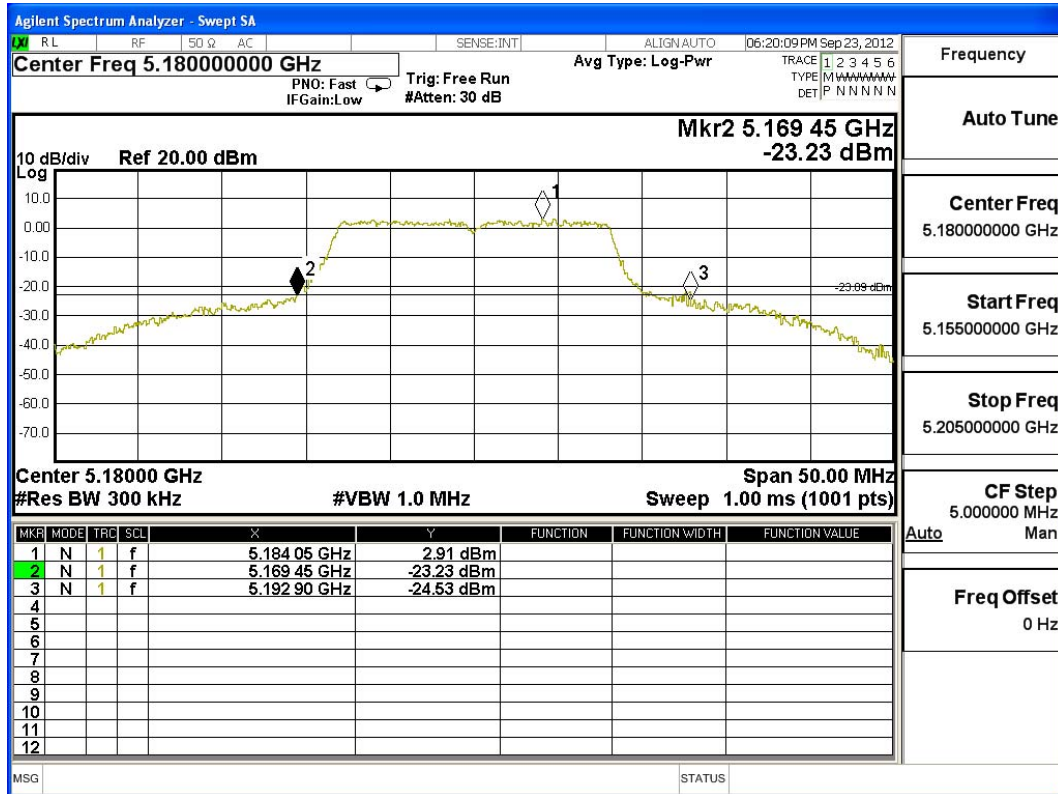
Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power Measurement:

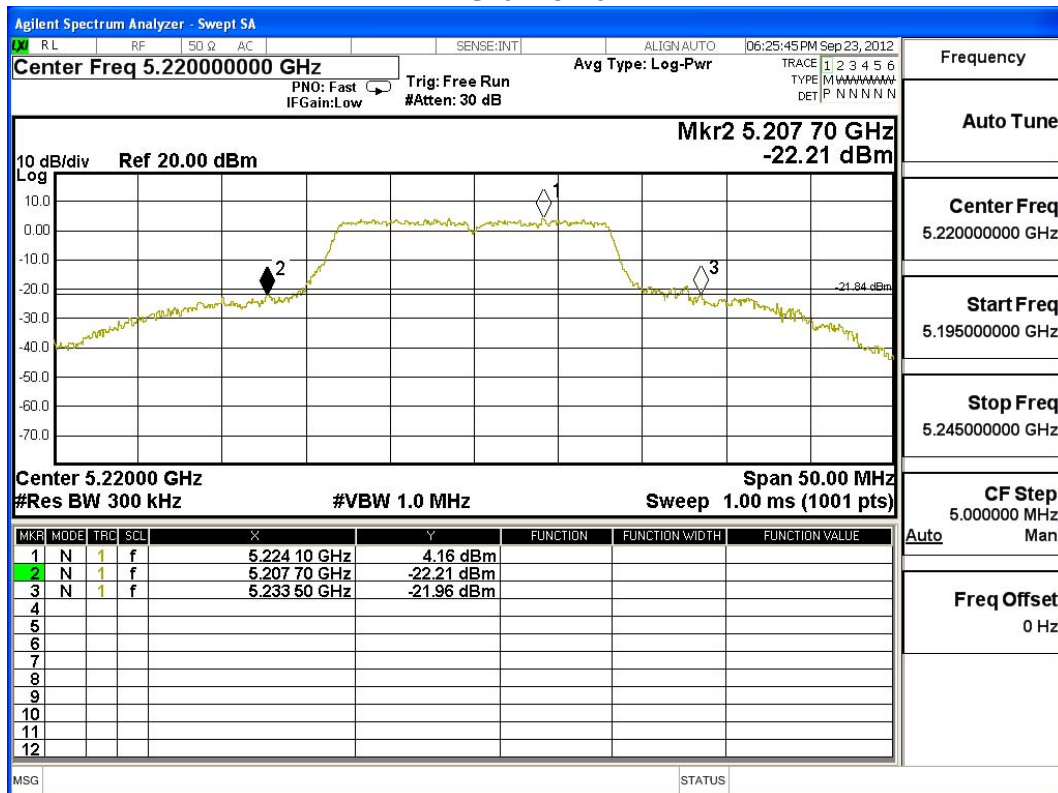
Channel Number	Frequency (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Output Power Limit	
				(dBm)	dBm+10log(BW)
36	5180	23.450	12.53	17	17.70
44	5220	25.800	14.06	17	18.12
48	5240	26.950	14.28	17	18.31
52	5260	26.800	14.07	24	25.28
60	5300	23.850	14.28	24	24.77
64	5320	24.050	14.13	24	24.81
100	5500	31.350	14.95	24	25.96
116	5580	20.700	13.78	24	24.16
140	5700	21.300	13.81	24	24.28

Note: Power Output Value =Reading value on average power meter + cable loss

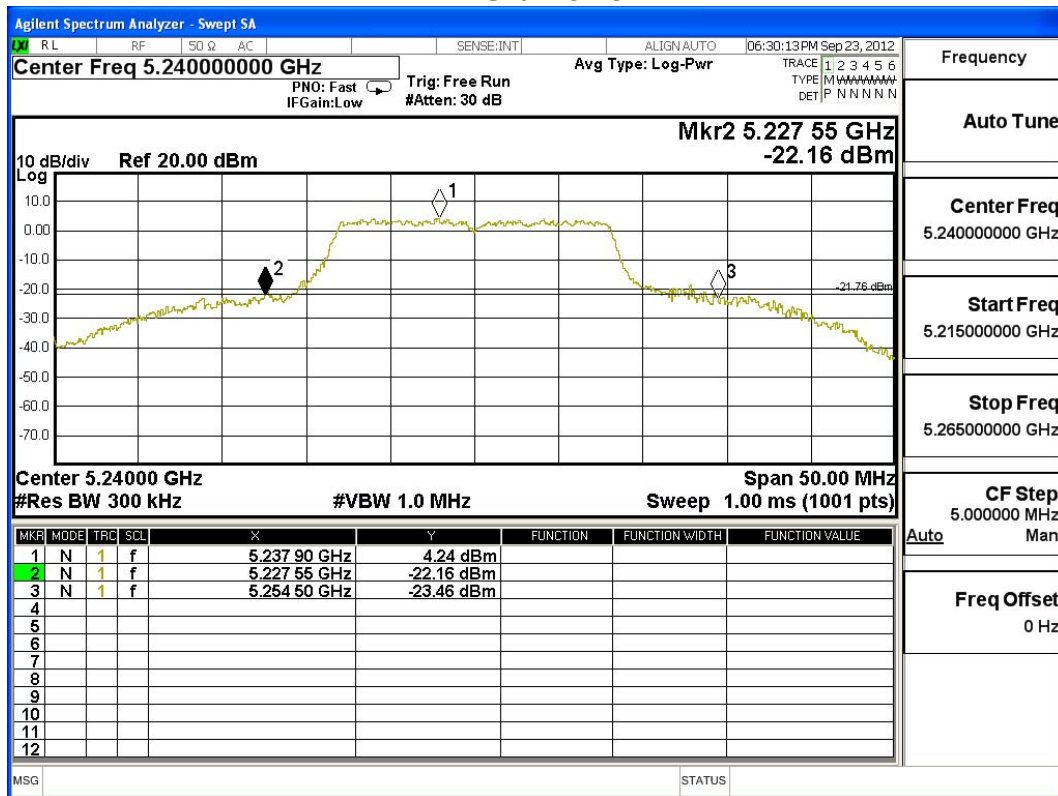
26dBc Occupied Bandwidth: Channel 36



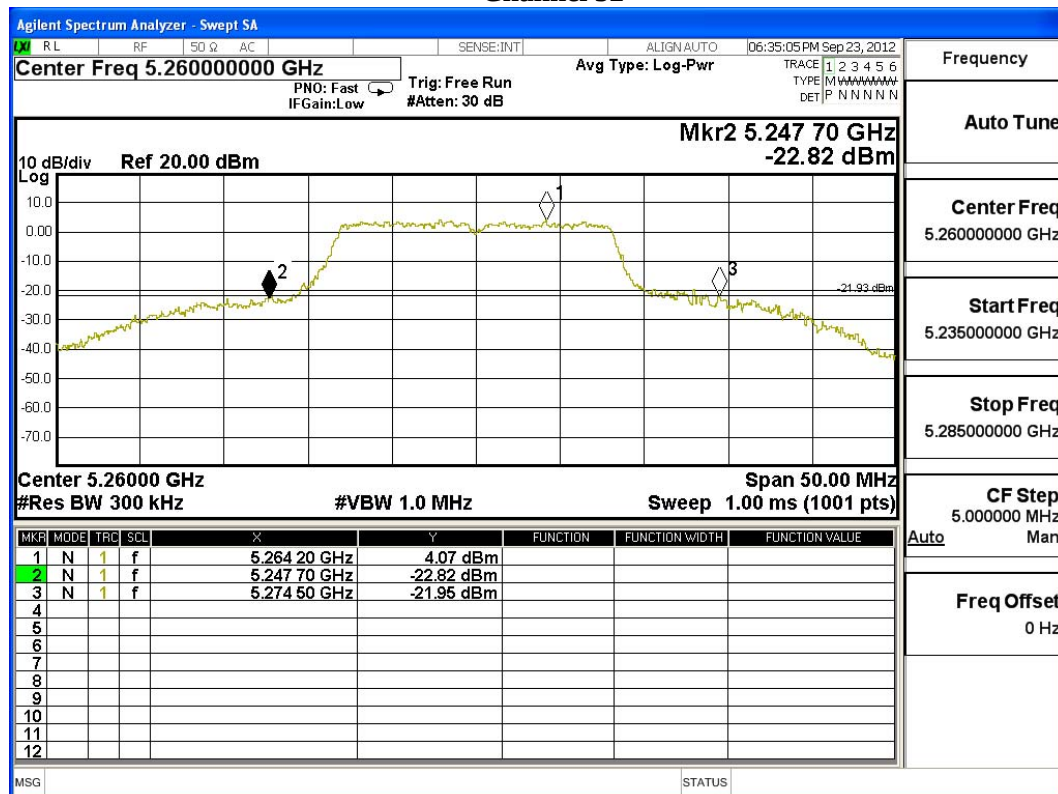
Channel 40



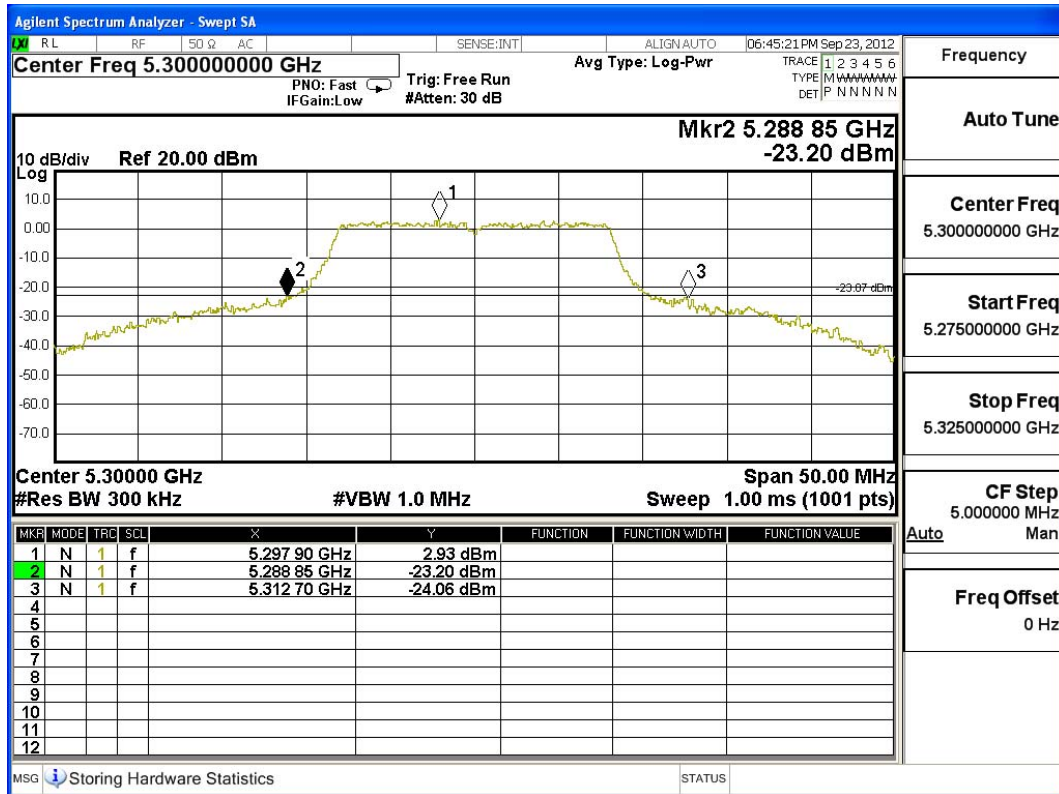
Channel 48



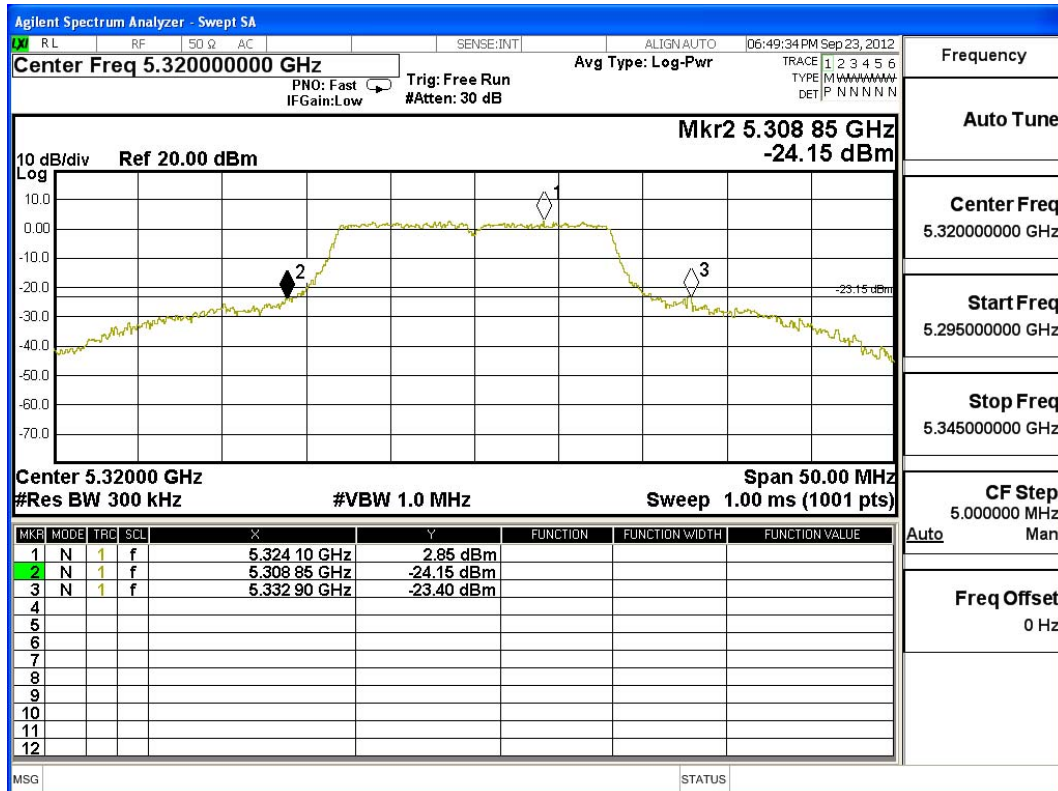
Channel 52



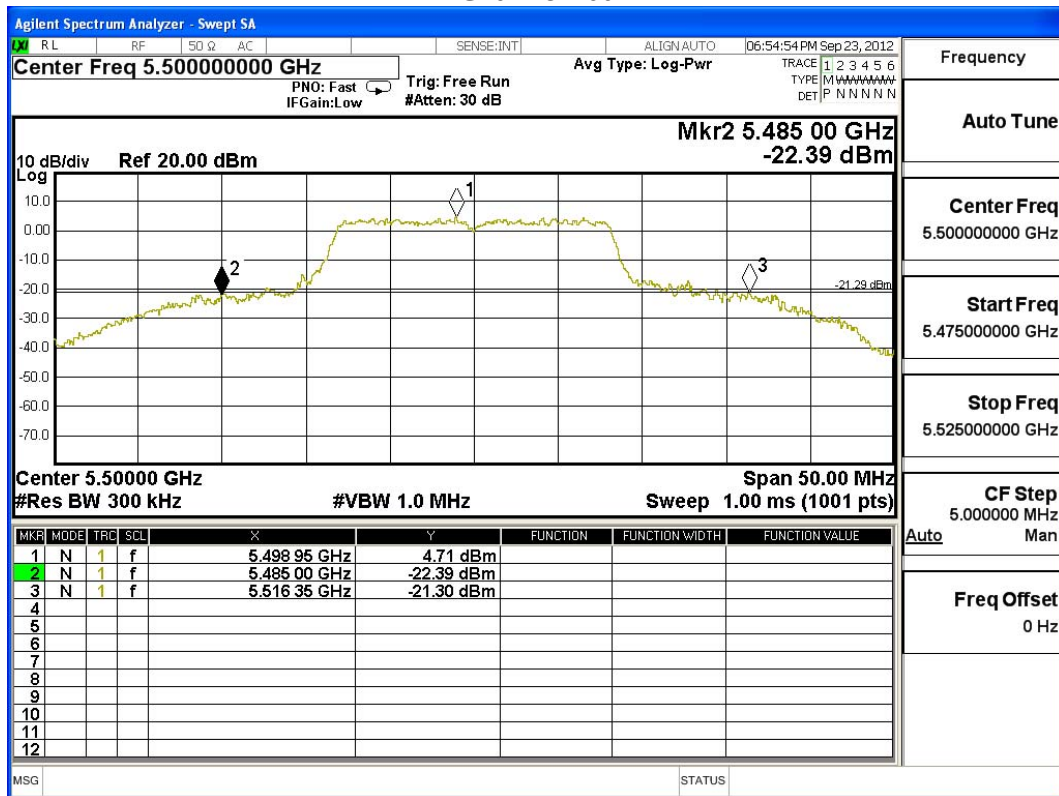
Channel 60



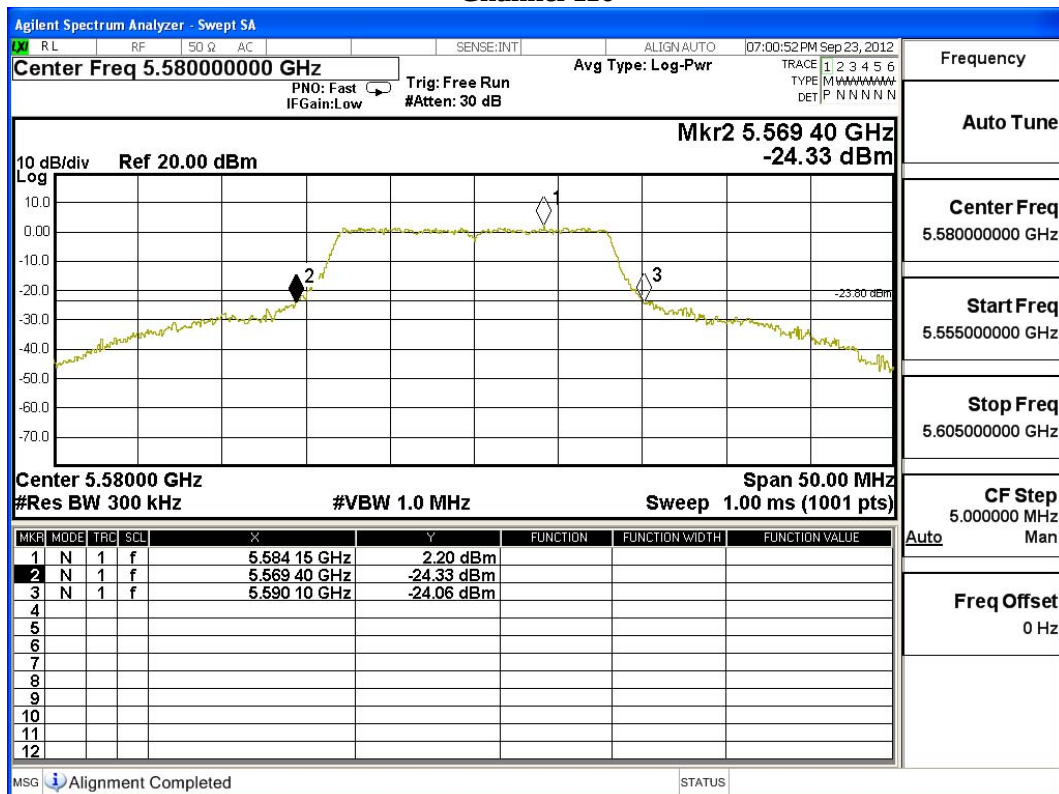
Channel 64



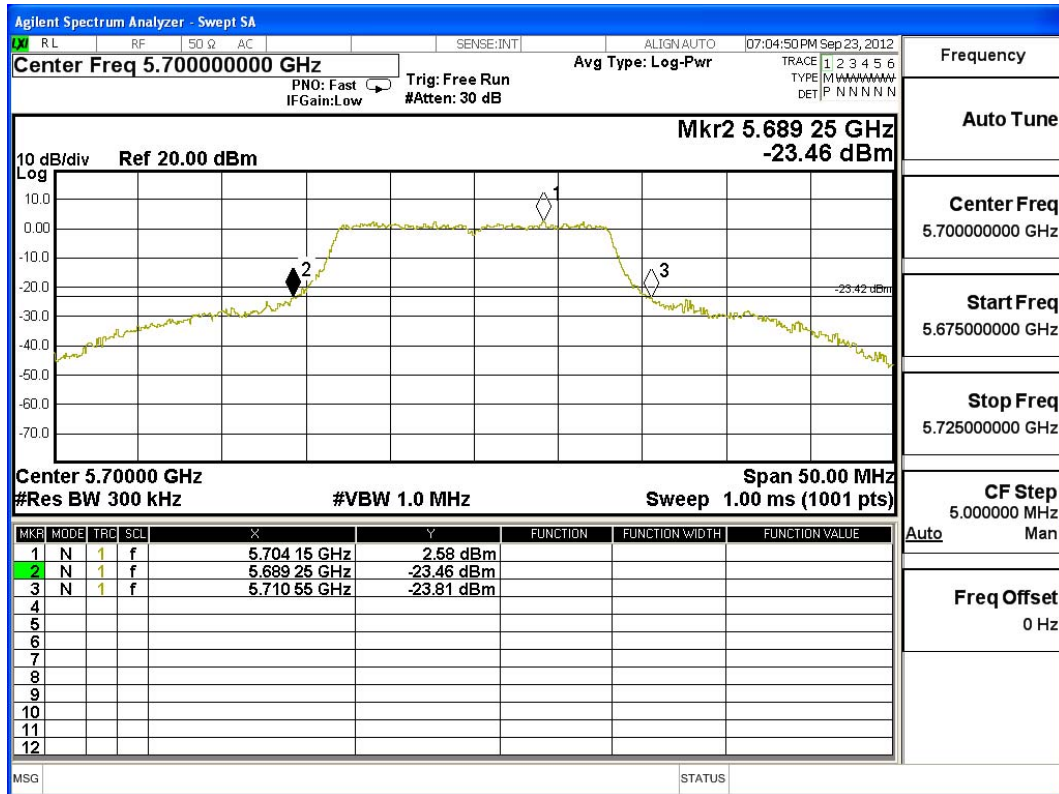
Channel 100



Channel 116



Channel 140



Product : Notebook PC
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11n-20BW 14.4Mbps)

CHAIN A

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	10.68	--	--	--	--	--	--	--	<17dBm
44	5220	11.21	11.15	10.94	10.86	10.72	10.54	10.34	10.21	<17dBm
48	5240	11.13	--	--	--	--	--	--	--	<17dBm
52	5260	11.51	--	--	--	--	--	--	--	<24dBm
60	5300	11.5	11.38	11.26	11.14	11.01	10.87	10.64	10.59	<24dBm
64	5320	11.92	--	--	--	--	--	--	--	<24dBm
100	5500	11.75	--	--	--	--	--	--	--	<24dBm
116	5580	10.92	10.78	10.59	10.43	10.26	10.12	10.01	9.89	<24dBm
140	5700	10.83	--	--	--	--	--	--	--	<24dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

CHAIN B

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	10.52	--	--	--	--	--	--	--	<17dBm
44	5220	10.86	10.75	10.64	10.53	10.41	10.23	10.11	9.98	<17dBm
48	5240	10.77	--	--	--	--	--	--	--	<17dBm
52	5260	11.17	--	--	--	--	--	--	--	<24dBm
60	5300	11.31	11.18	11.01	10.81	10.67	10.54	10.39	10.23	<24dBm
64	5320	11.84	--	--	--	--	--	--	--	<24dBm
100	5500	11.28	--	--	--	--	--	--	--	<24dBm
116	5580	11.24	11.1	11.02	10.81	10.76	10.54	10.39	10.05	<24dBm
140	5700	10.69	--	--	--	--	--	--	--	<24dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power Measurement:

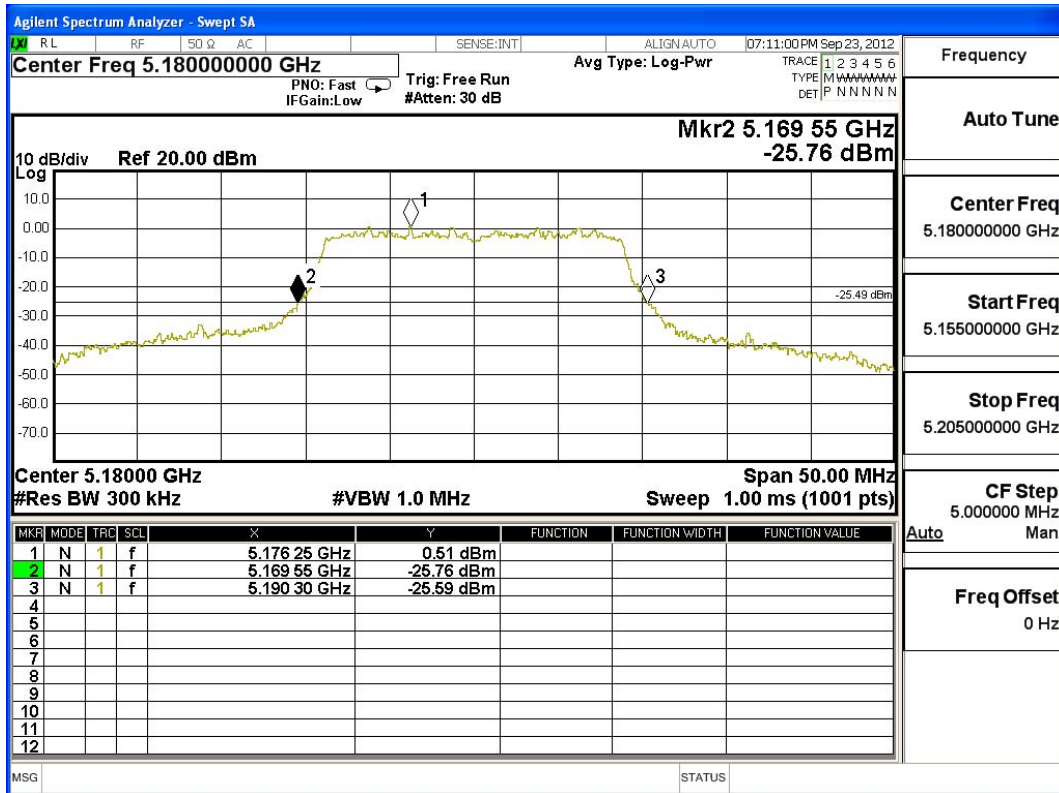
CHAIN A+B

Channel Number	Frequency (MHz)	26dB Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Output Power (dBm)	Output Power Limit	
						(dBm)	dBm+10log(BW)
36	5180	20.750	10.68	10.52	13.61	17	17.17
44	5220	20.700	11.21	10.86	14.05	17	17.16
48	5240	20.750	11.13	10.77	13.96	17	17.17
52	5260	20.650	11.51	11.17	14.35	24	24.15
60	5300	20.750	11.50	11.31	14.42	24	24.17
64	5320	20.800	11.92	11.84	14.89	24	24.18
100	5500	20.700	11.75	11.28	14.53	24	24.16
116	5580	20.750	10.92	11.76	14.37	24	24.17
140	5700	20.700	10.83	10.69	13.77	24	24.16

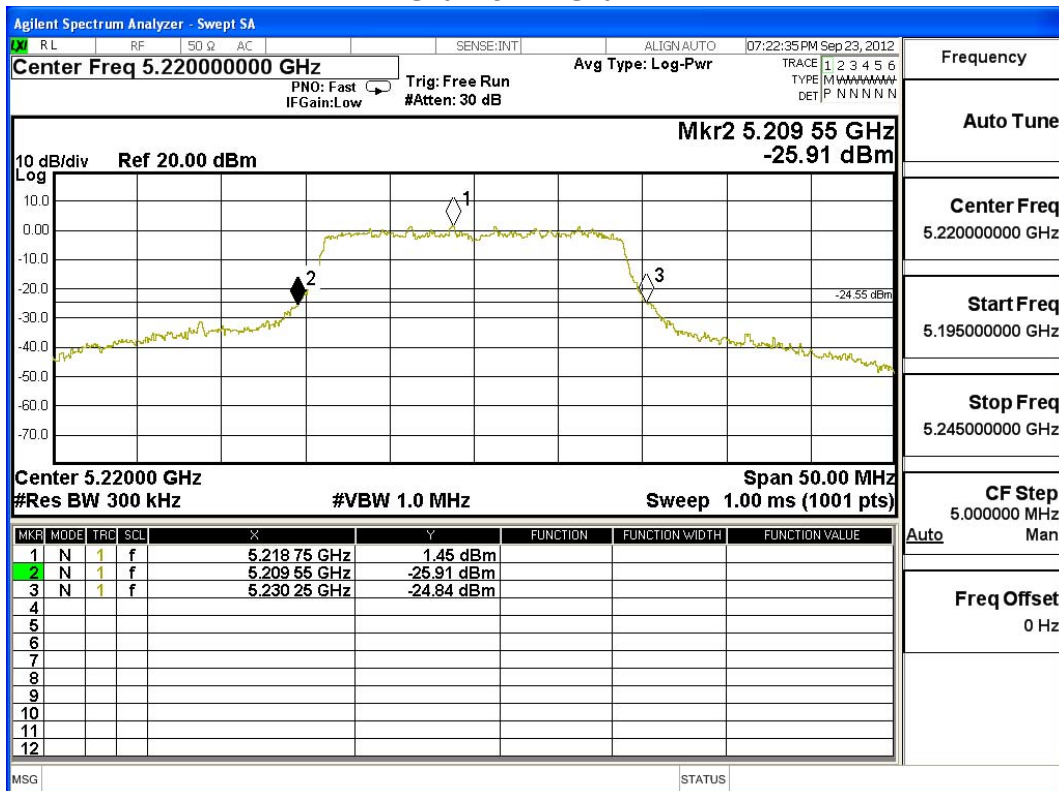
Note:

1. Power Output Value =Reading value on average power meter + cable loss
2. Output Power (dBm) = 10*LOG (Chain A Power (mW)+ Chain B Power (mW))
3. 26 dB Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

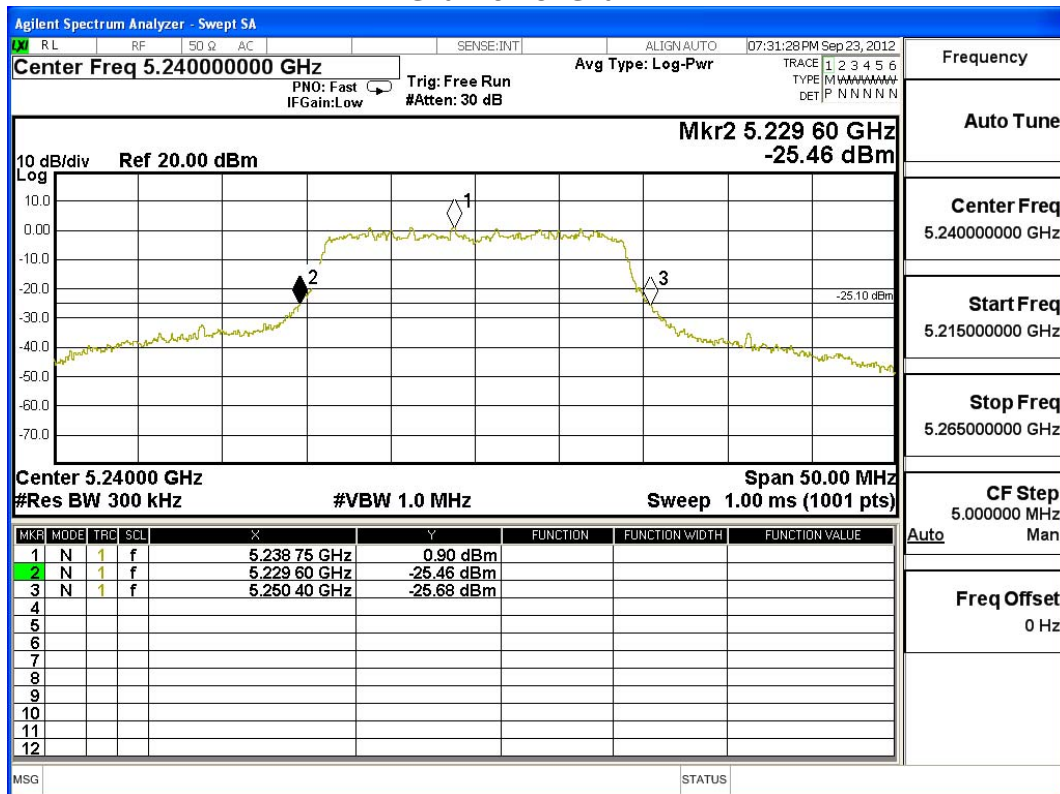
26dBc Occupied Bandwidth: Channel 36 -Chain A



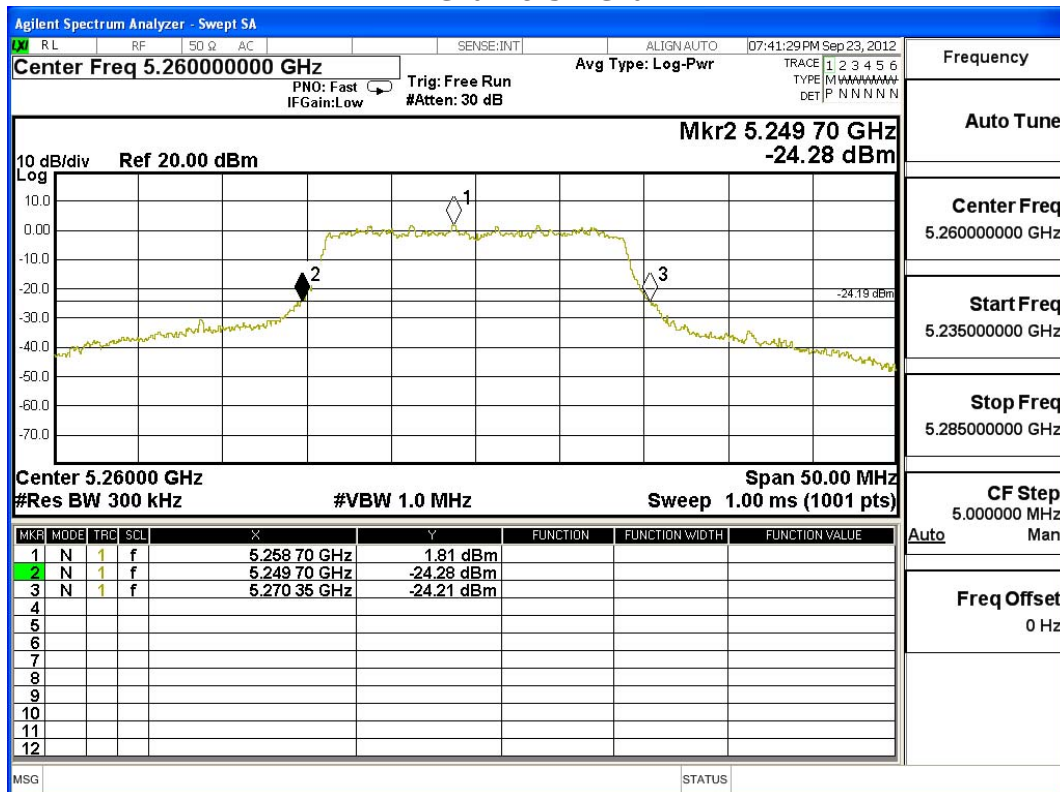
Channel 44 -Chain A



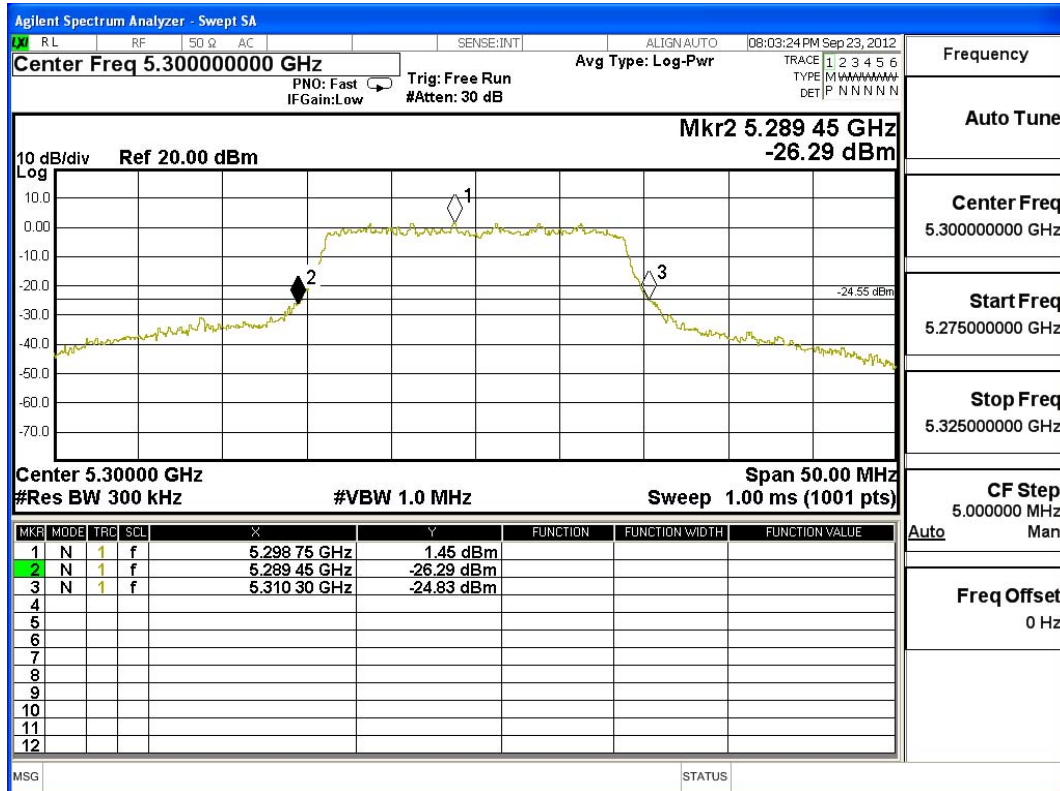
Channel 48 -Chain A



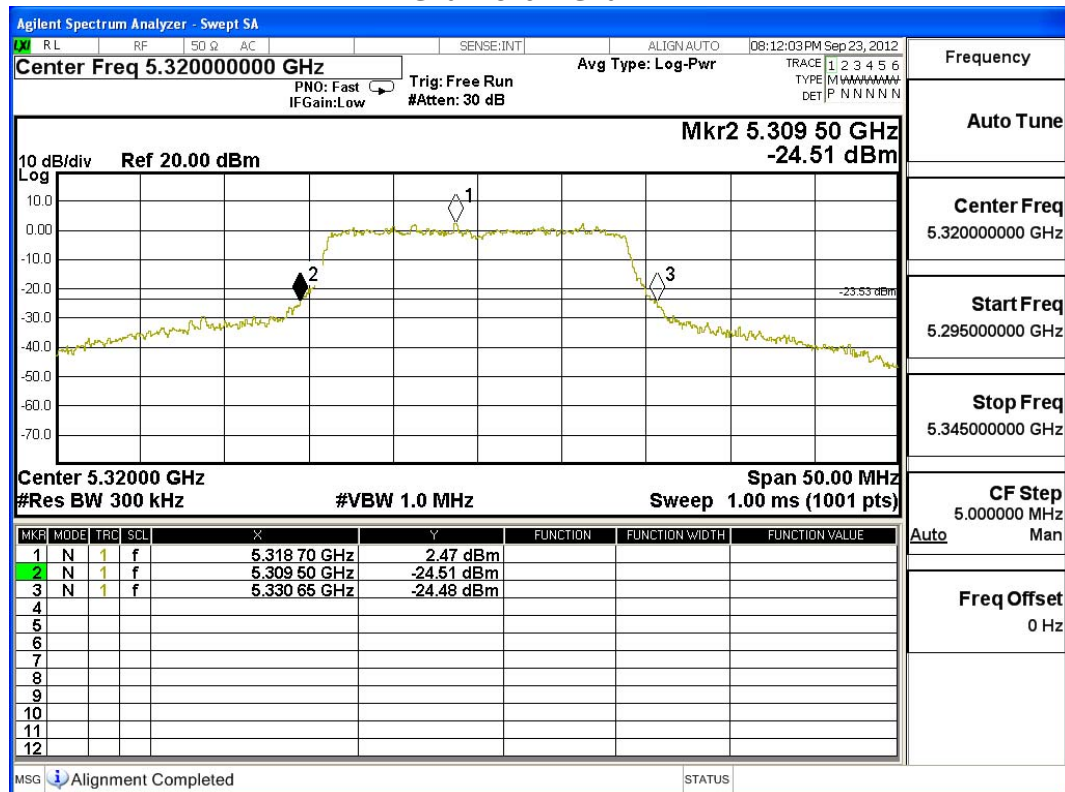
Channel 52 -Chain A



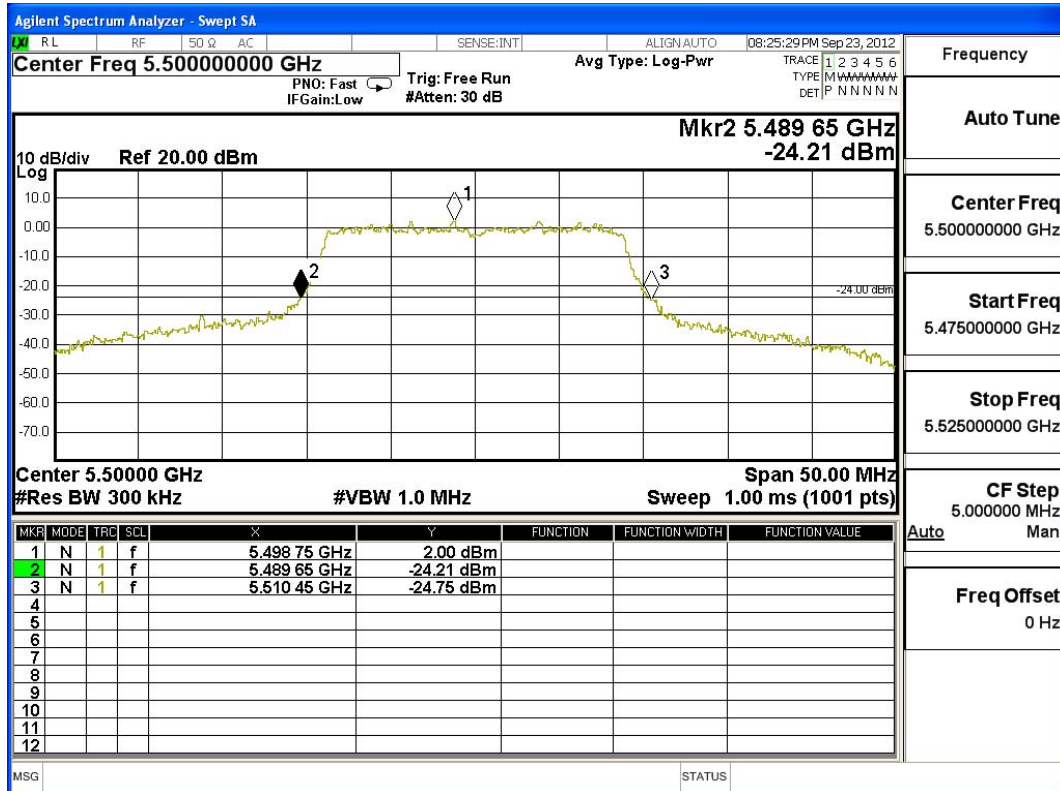
Channel 60 -Chain A



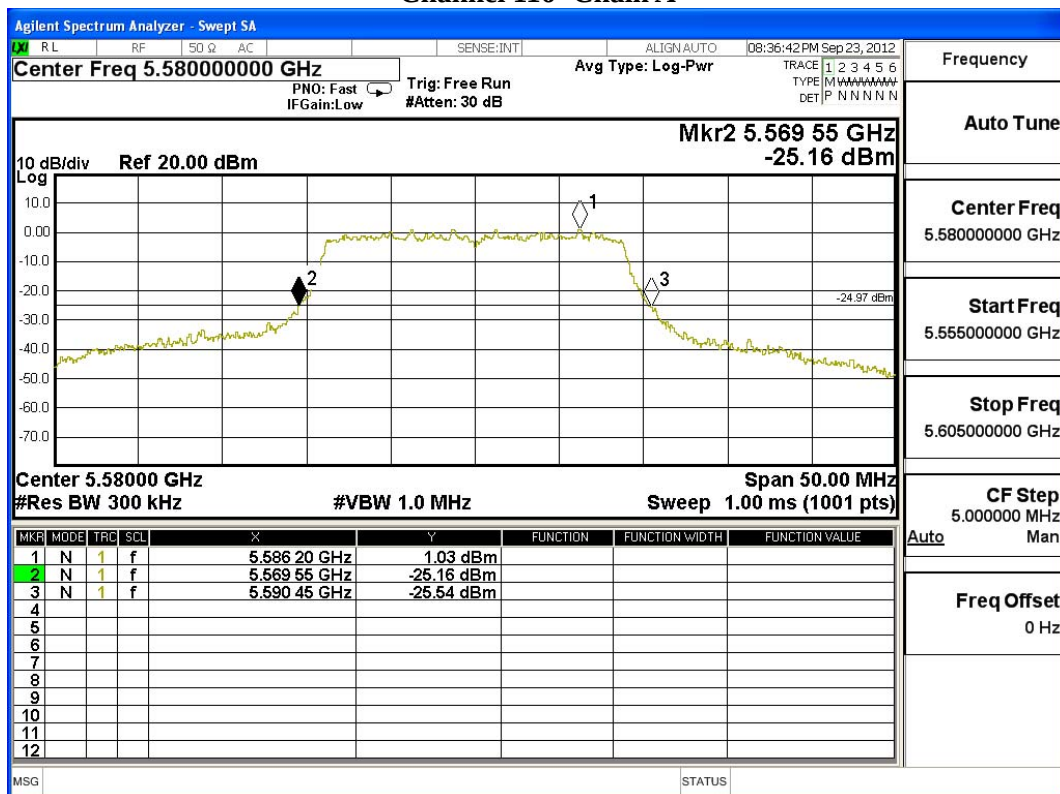
Channel 64 -Chain A



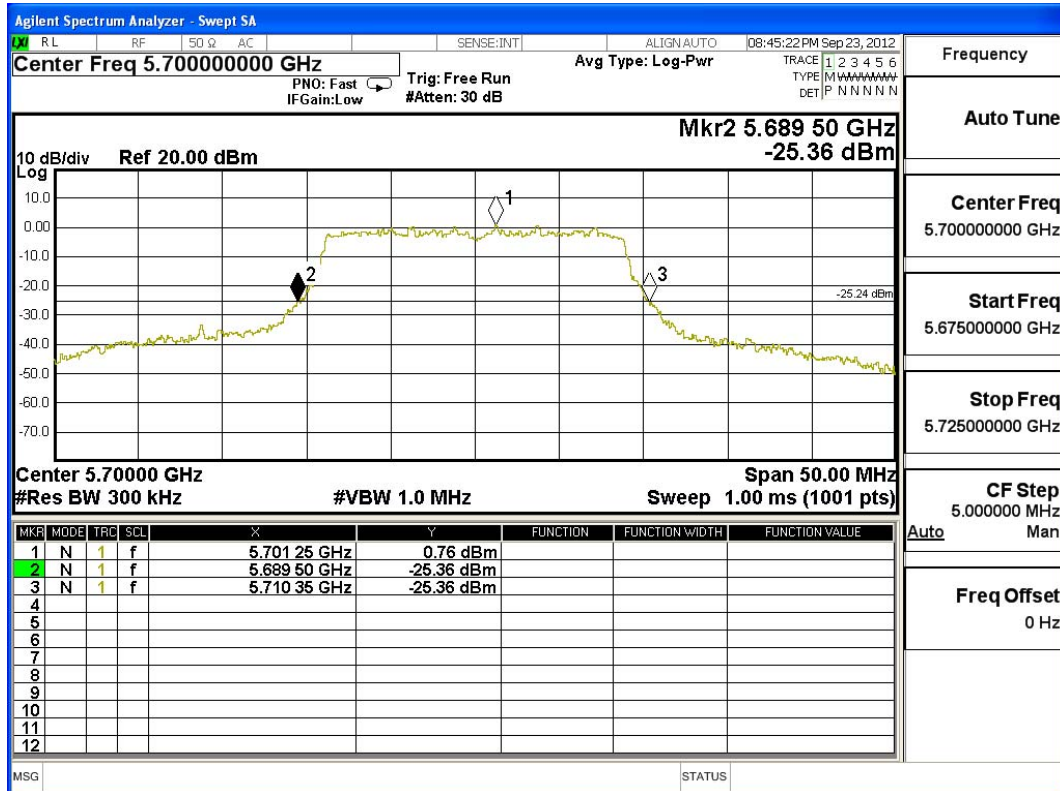
Channel 100 -Chain A



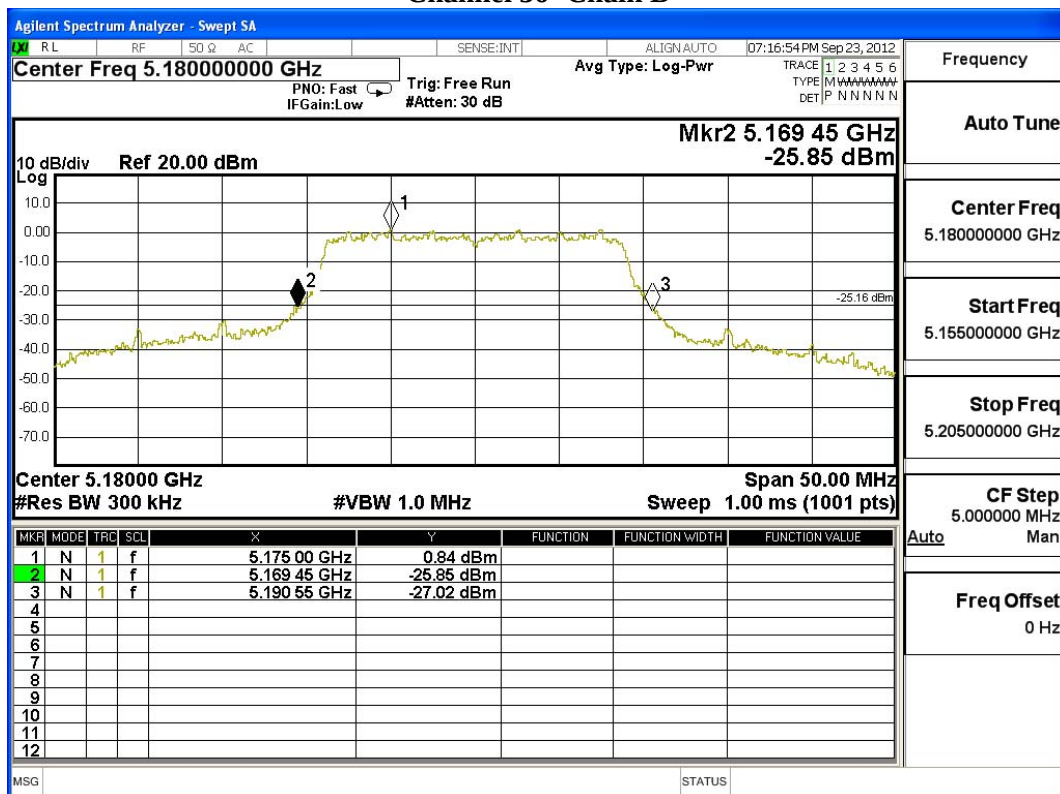
Channel 116 -Chain A



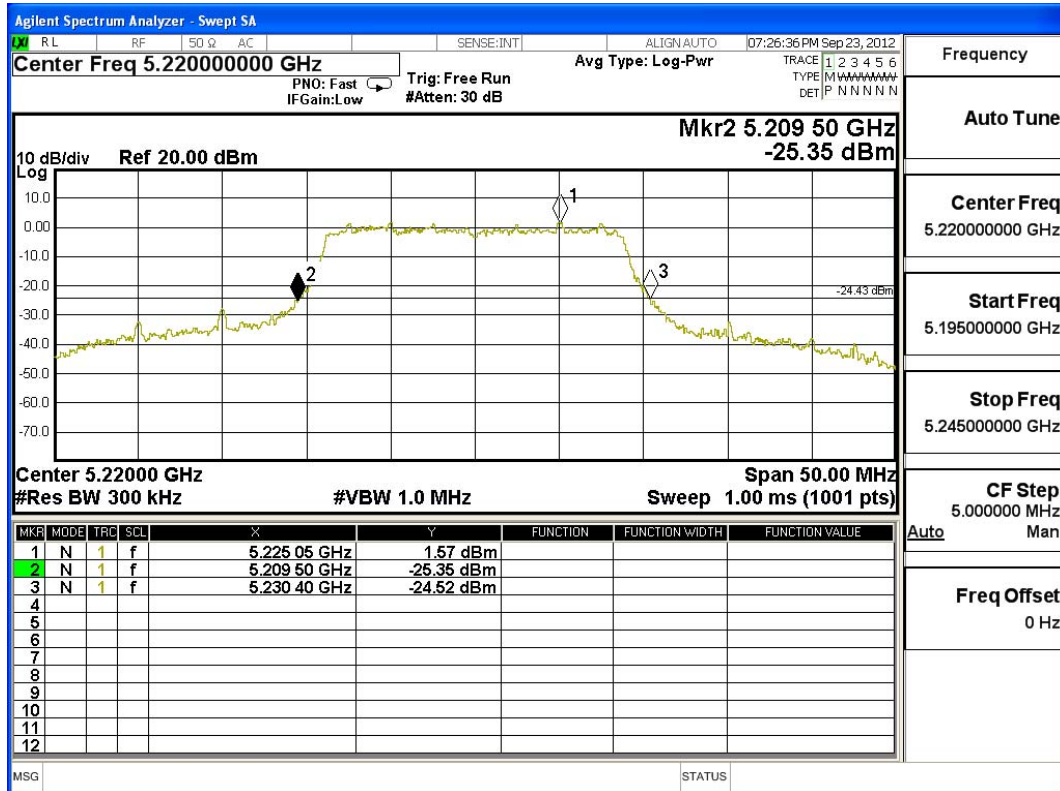
Channel 140 -Chain A



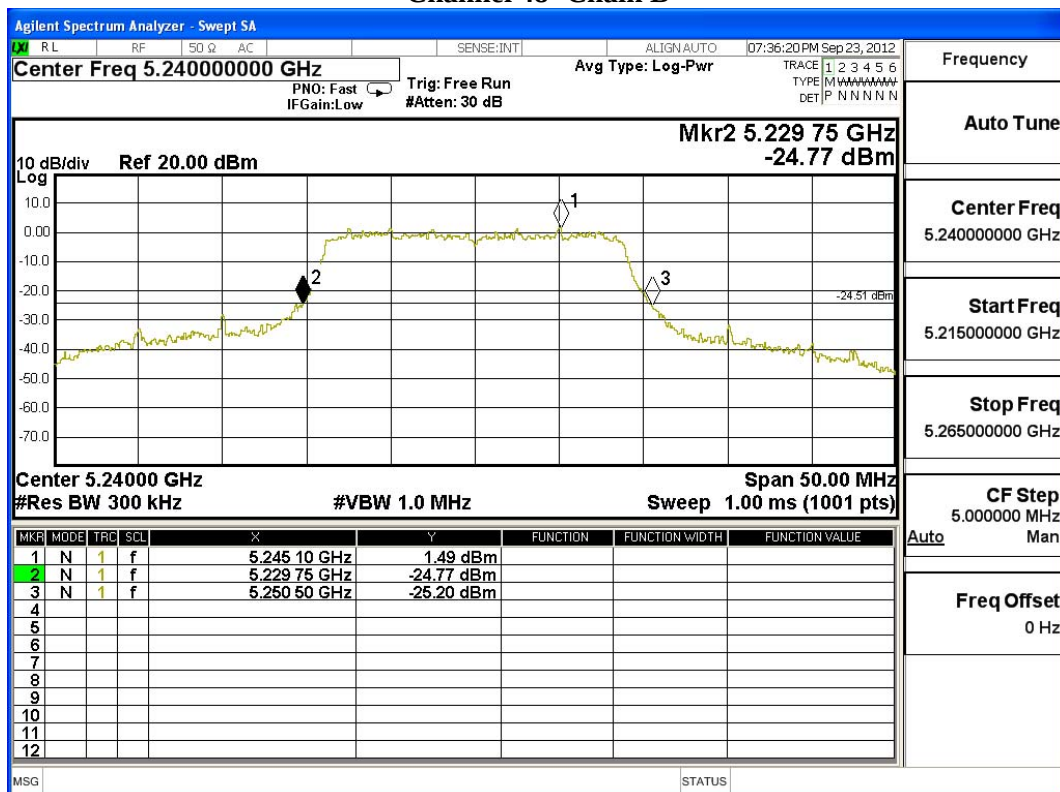
Channel 36 -Chain B



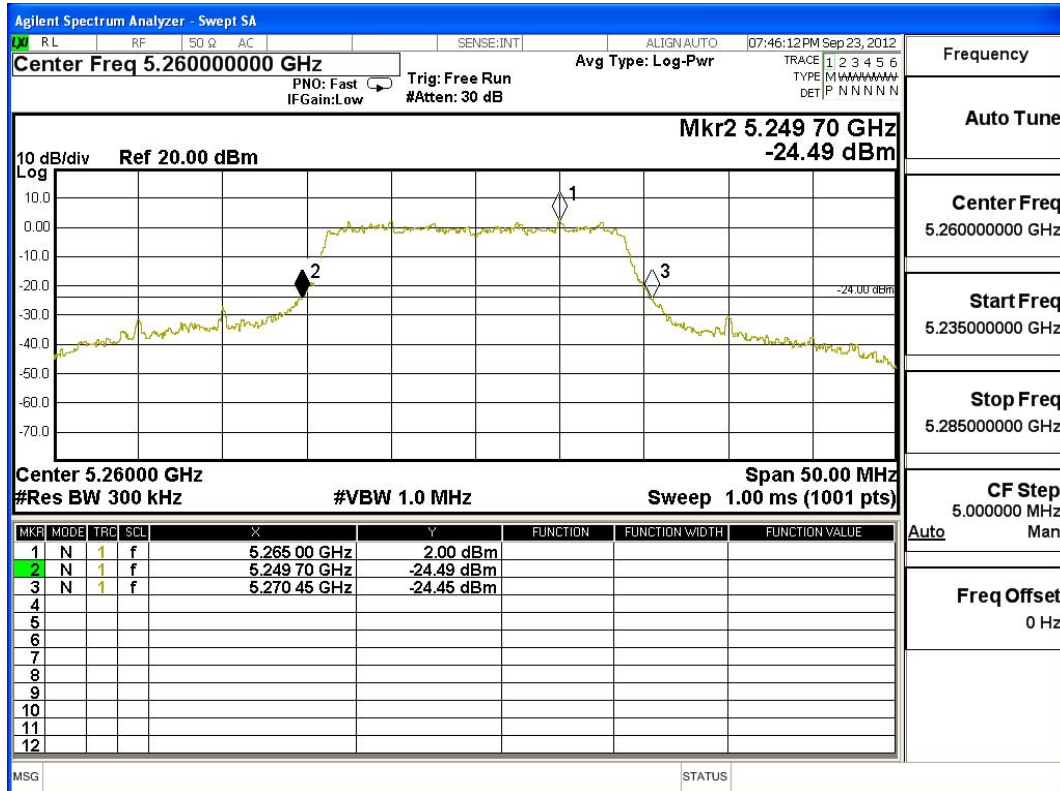
Channel 44 -Chain B



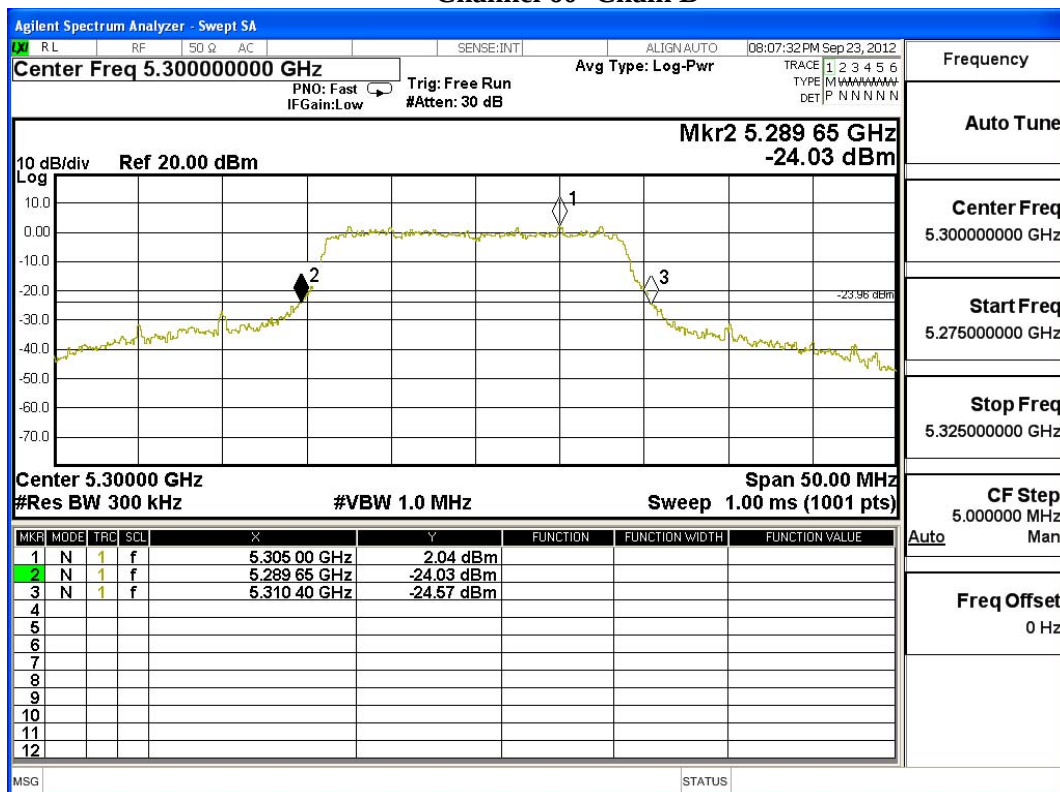
Channel 48 -Chain B



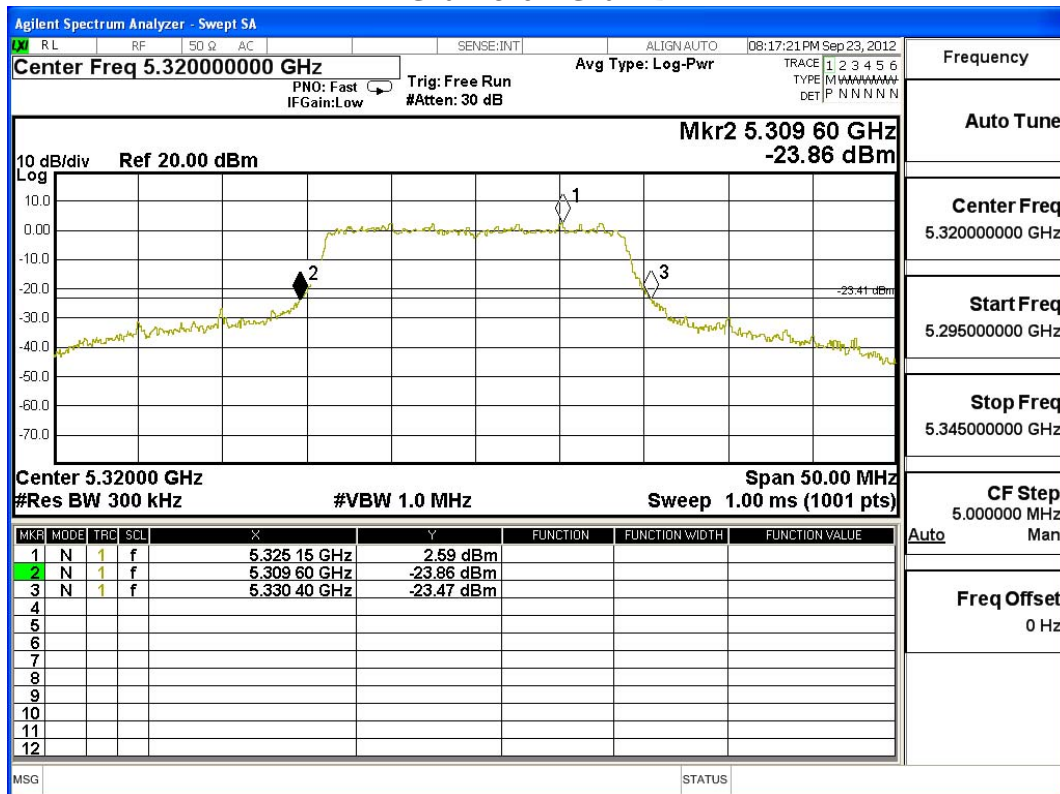
Channel 52 -Chain B



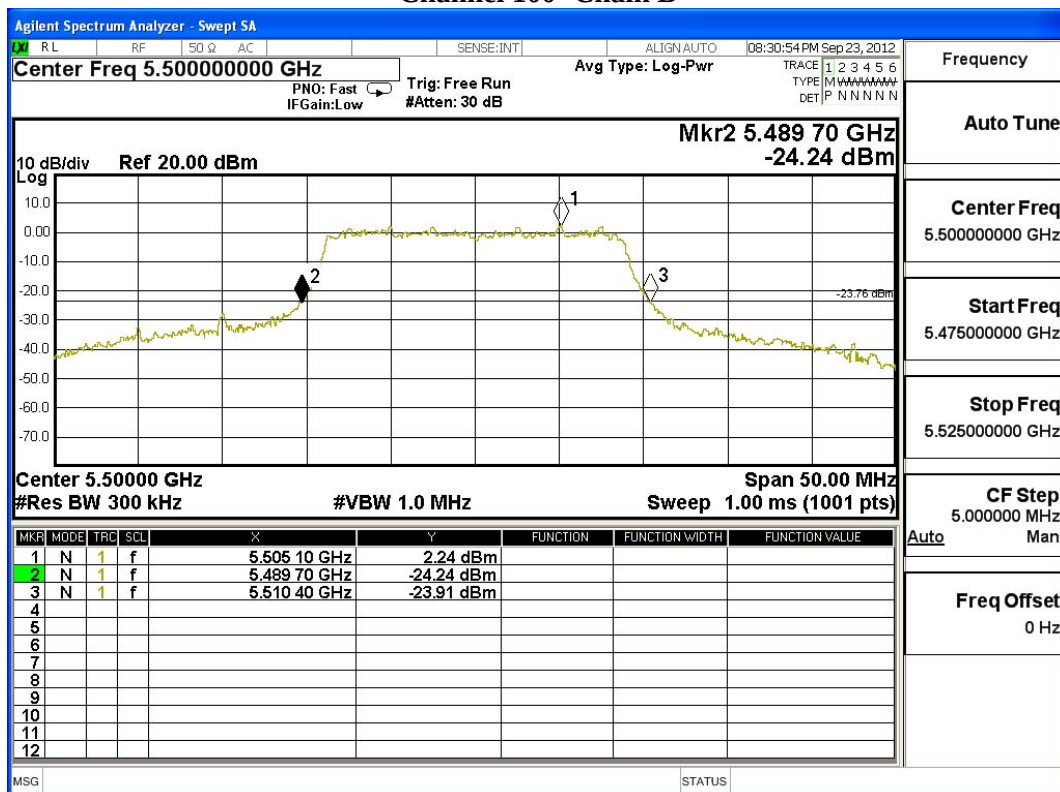
Channel 60 -Chain B



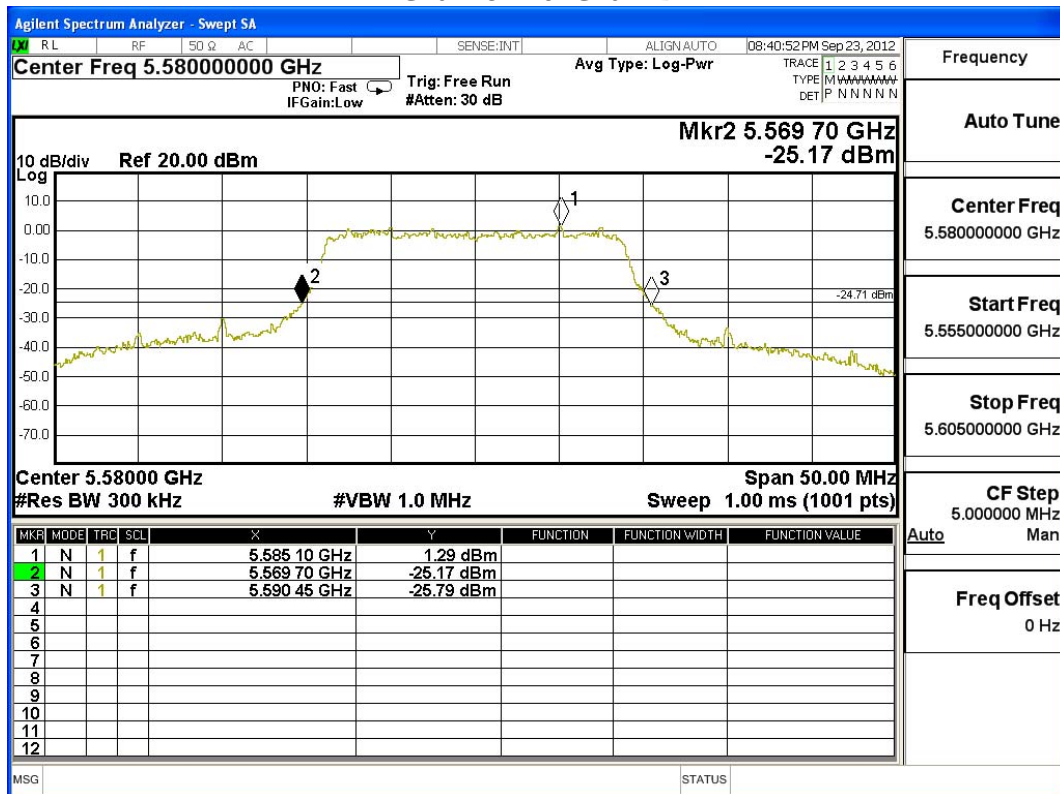
Channel 64 -Chain B



Channel 100 -Chain B



Channel 116 -Chain B



Channel 140 -Chain B

