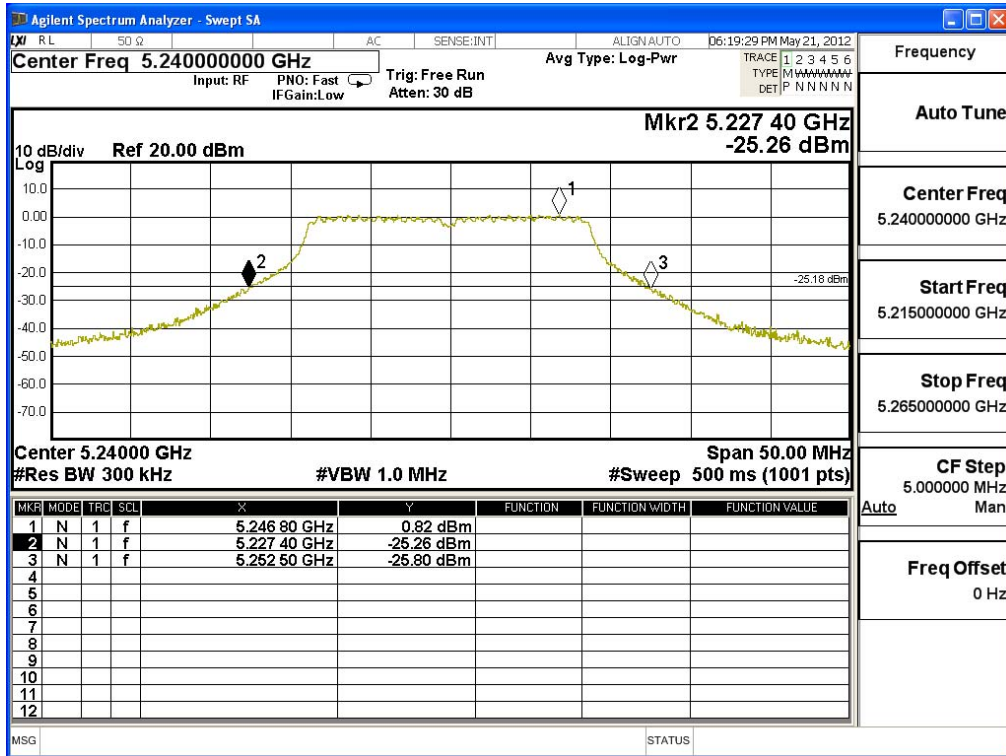
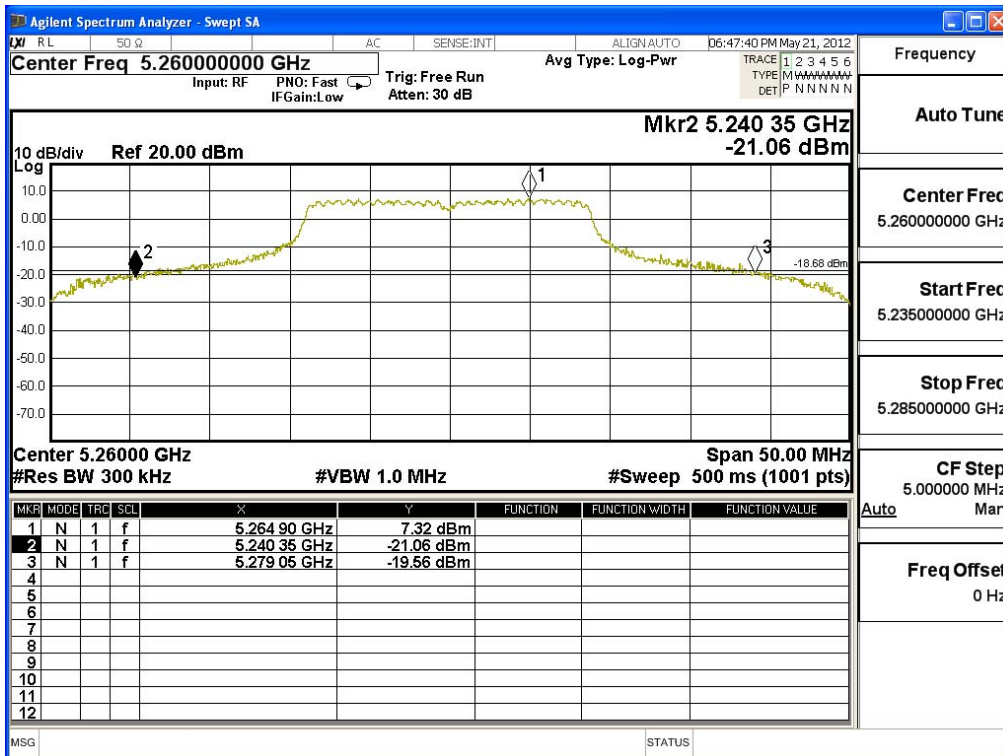


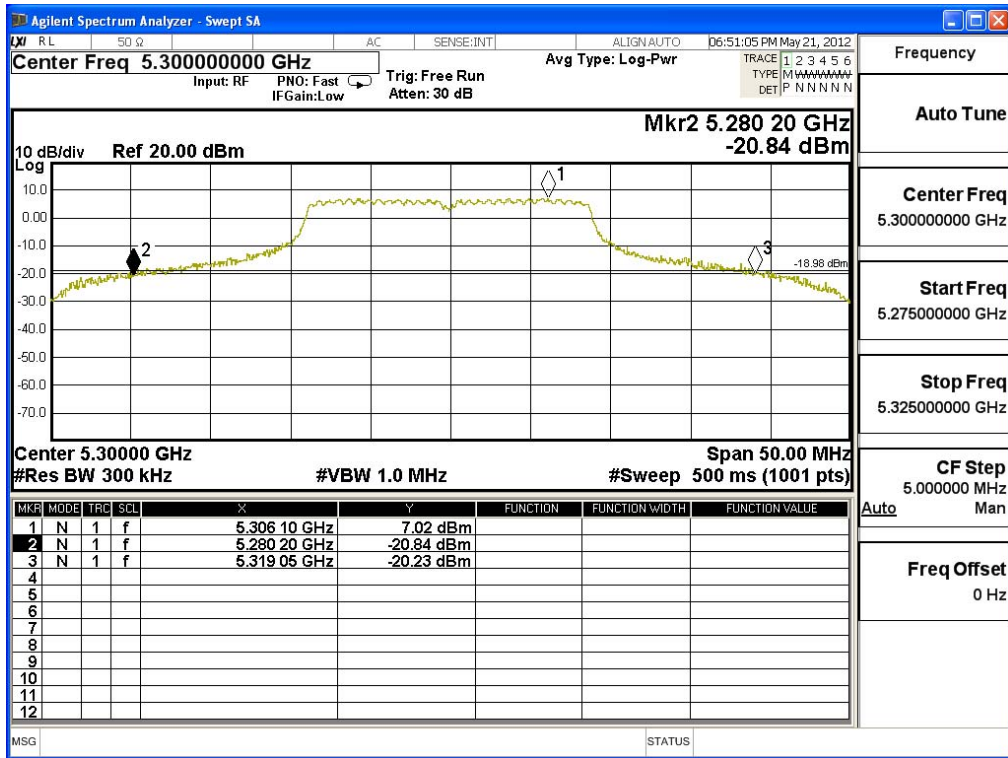
### Channel 48 -Chain C



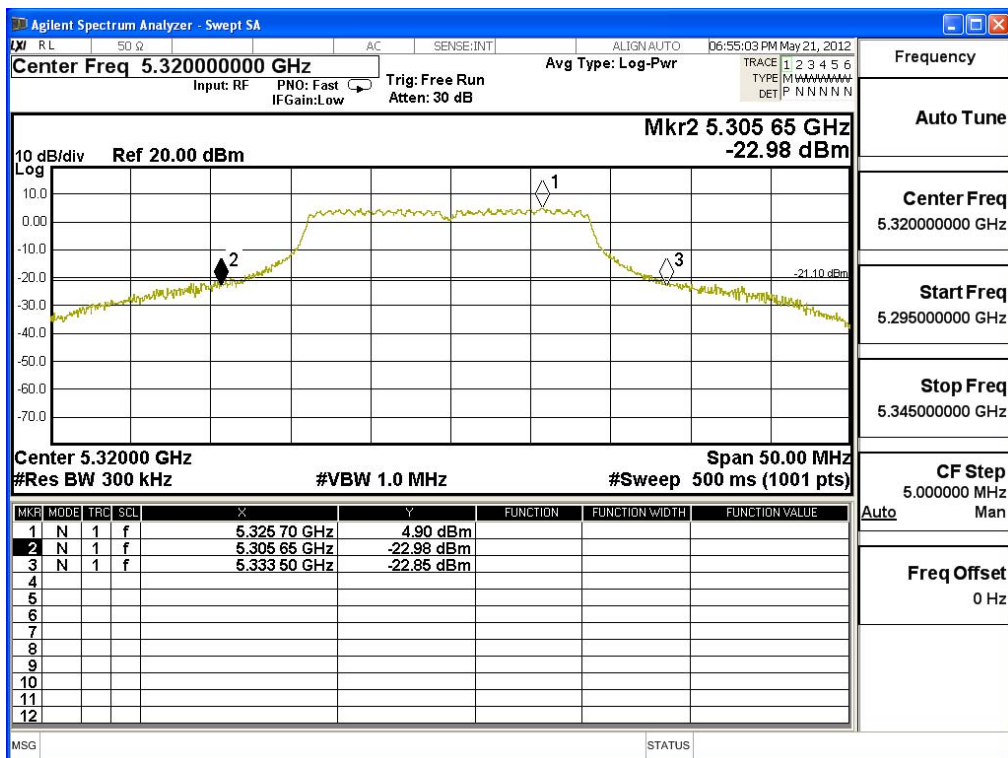
### Channel 52 -Chain C



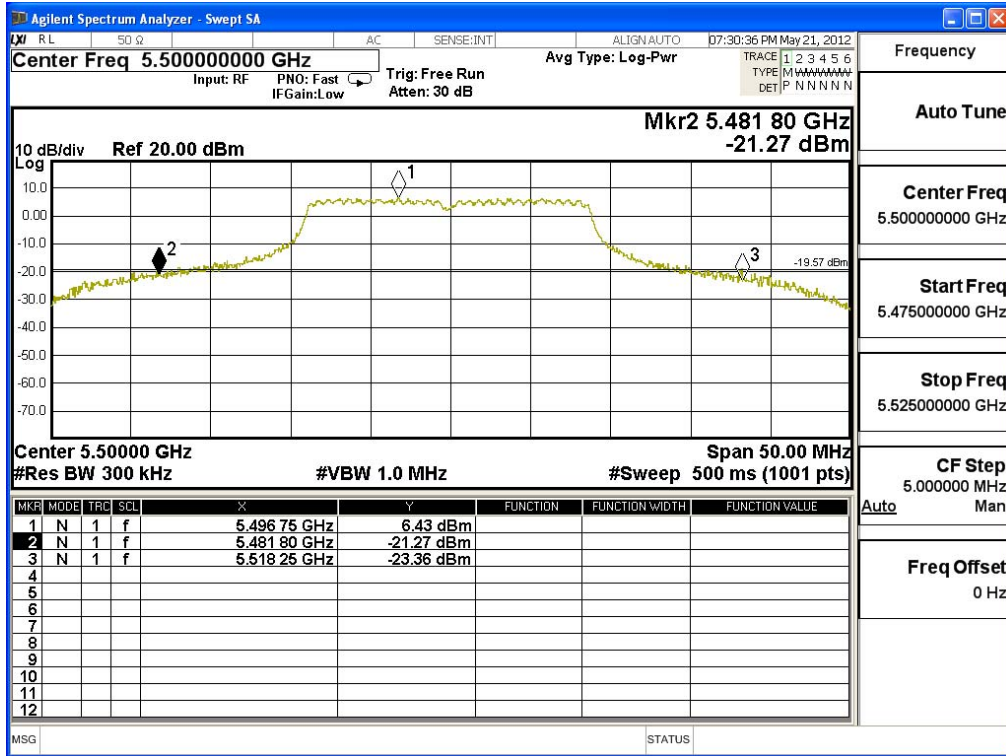
Channel 60 -Chain C



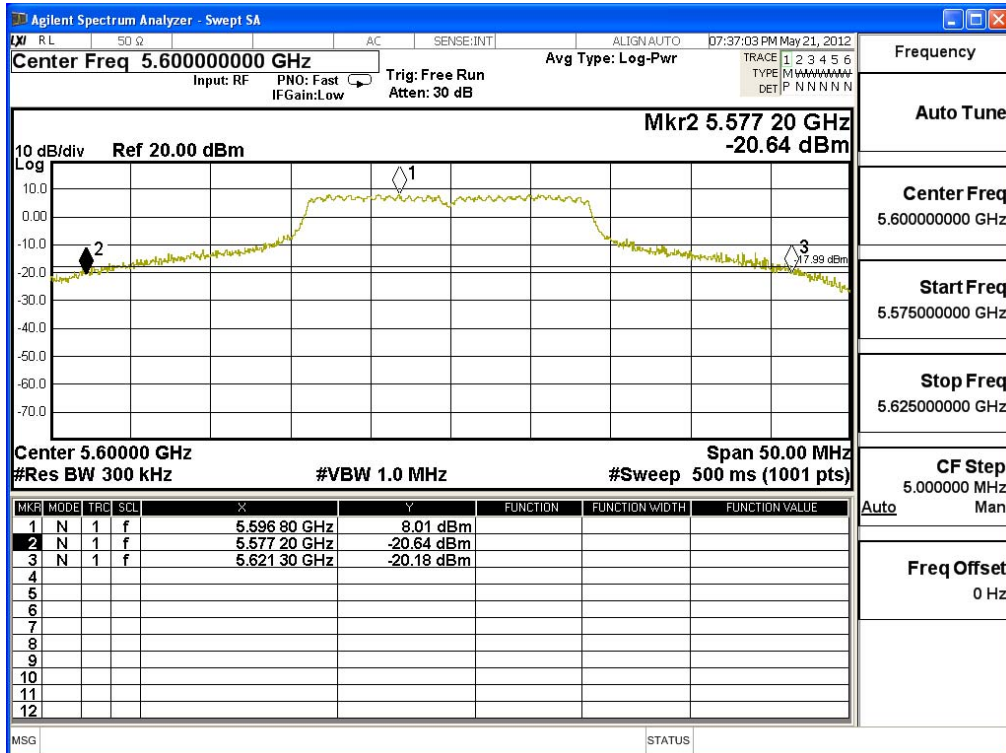
Channel 64 -Chain C



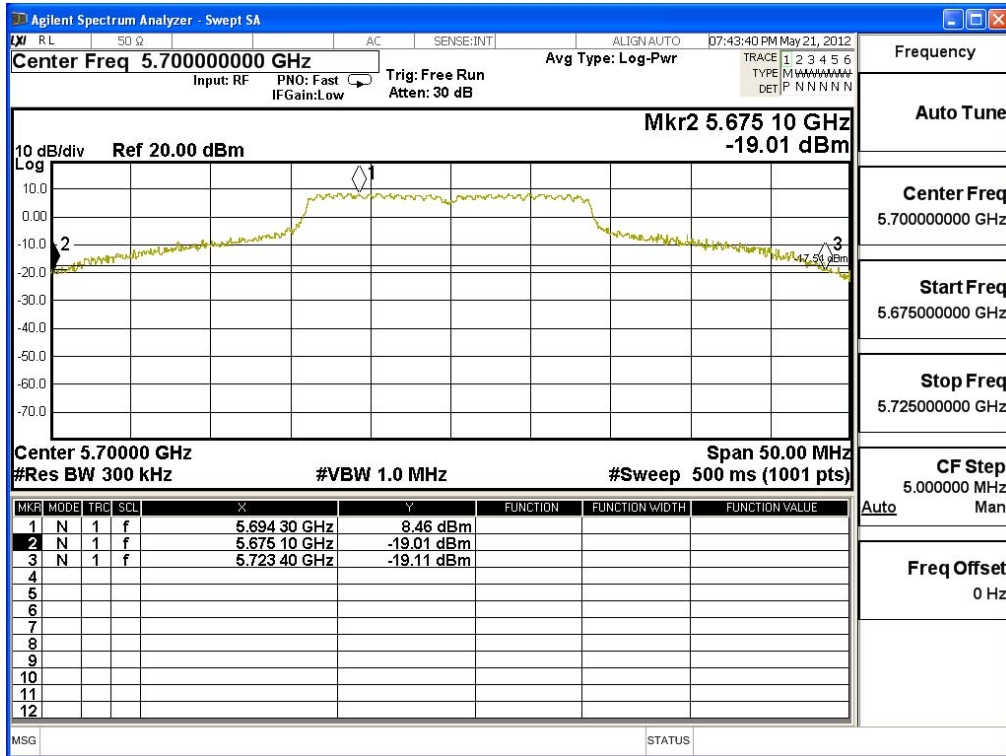
**Channel 100 -Chain C**



**Channel 120 -Chain C**



**Channel 140 -Chain C**



Product : 802.11 a/b/g/n, 2.4G/5G 3T3R Wireless Module  
 Test Item : Peak Transmit Power  
 Test Site : No.3 OATS  
 Test Mode : Mode 3: Transmitter (802.11n-40BW 45Mbps)

**CHAIN A**

Cable loss=1dB		Peak Power Output								Required Limit
Channel No.	Frequency (MHz)	Data Rate (Mbps)								
		21.7	43.3	65	86.7	130.7	173.3	195	216.7	
		Measurement Level (dBm)								
38	5190	9.92	--	--	--	--	--	--	--	<17dBm
46	5230	11.11	11.05	10.96	10.82	10.73	10.61	10.56	10.43	<17dBm
54	5270	16.54	--	--	--	--	--	--	--	<17dBm
62	5310	11.16	11.08	10.94	10.86	10.77	10.62	10.53	10.48	<24dBm
102	5510	10.25	--	--	--	--	--	--	--	<24dBm
118	5590	14.86	14.76	14.67	14.53	14.42	14.38	14.29	14.17	<24dBm
134	5670	15.21	--	--	--	--	--	--	--	<24dBm

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

**CHAIN B**

Cable loss=1dB		Peak Power Output								Required Limit
Channel No.	Frequency (MHz)	Data Rate (Mbps)								
		21.7	43.3	65	86.7	130.7	173.3	195	216.7	
		Measurement Level (dBm)								
38	5190	10.26	--	--	--	--	--	--	--	<17dBm
46	5230	10.85	10.76	10.61	10.53	10.48	10.4	10.35	10.28	<17dBm
54	5270	16.95	--	--	--	--	--	--	--	<17dBm
62	5310	11.62	11.57	11.46	11.35	11.27	11.13	11.09	10.98	<24dBm
102	5510	12.62	--	--	--	--	--	--	--	<24dBm
118	5590	16.53	16.46	16.37	16.26	16.18	16.09	15.97	15.84	<24dBm
134	5670	16.45	--	--	--	--	--	--	--	<24dBm

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

**CHAIN C**

Cable loss=1dB		Peak Power Output								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		21.7	43.3	65	86.7	130.7	173.3	195	216.7	
		Measurement Level (dBm)								
38	5190	10.18	--	--	--	--	--	--	--	<17dBm
46	5230	9.81	9.73	9.62	9.57	9.43	9.37	9.28	9.18	<17dBm
54	5270	16.08	--	--	--	--	--	--	--	<17dBm
62	5310	9.83	9.76	9.61	9.57	9.45	9.37	9.28	9.11	<24dBm
102	5510	10.74	--	--	--	--	--	--	--	<24dBm
118	5590	15.42	15.34	15.29	15.2	15.18	15.11	15.07	14.96	<24dBm
134	5670	16.54	--	--	--	--	--	--	--	<24dBm

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

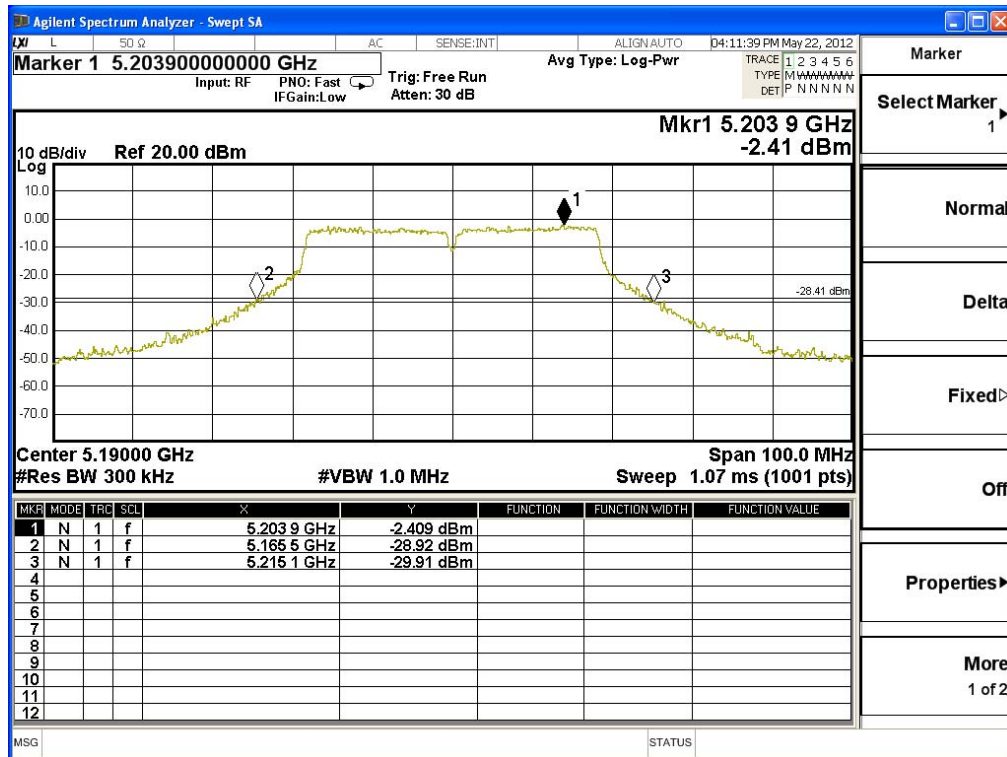
**Peak Transmit Power Measurement:**
**(CHAIN A+ B+ C)**

Channel Number	Frequency (MHz)	26dB Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Output Power (dBm)	Output Power Limit	
							(dBm)	dBm+10log(BW)
38	5190	46.900	9.92	10.26	10.18	14.89	17	20.71
46	5230	47.900	11.11	10.85	9.81	15.40	17	20.80
54	5270	74.400	16.54	16.95	16.08	21.31	24	29.72
62	5310	48.500	11.16	11.62	9.83	15.71	24	27.86
102	5510	48.000	10.25	12.62	10.74	16.10	24	27.81
118	5590	72.400	14.86	16.53	15.42	20.43	24	29.60
134	5670	73.000	15.21	16.45	16.54	20.88	24	29.63

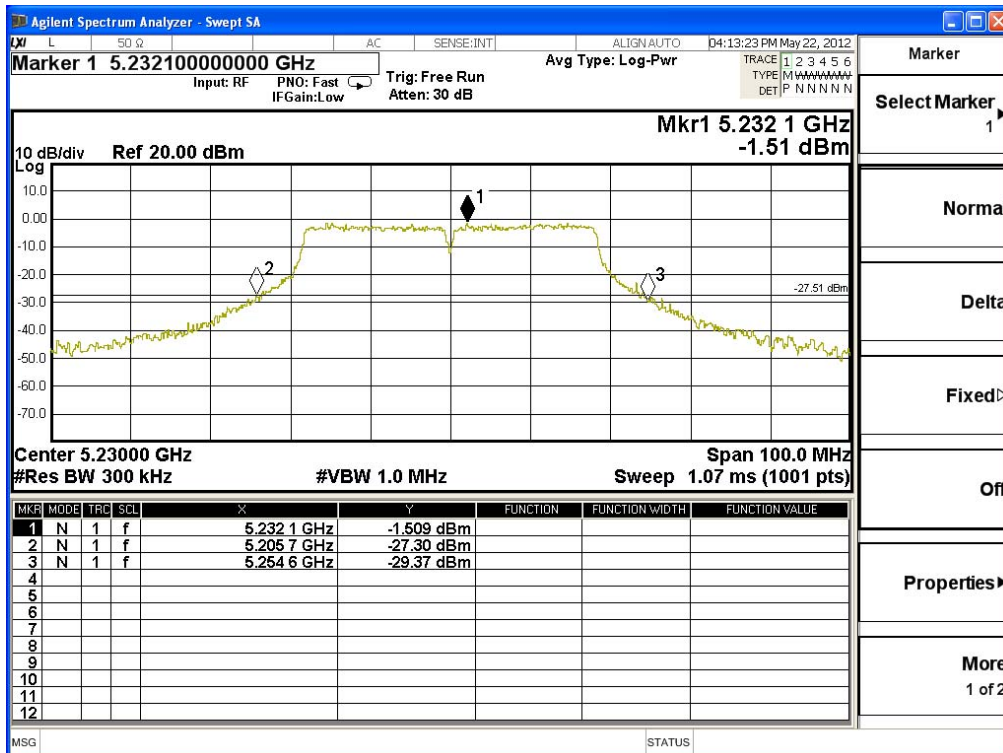
Note:

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

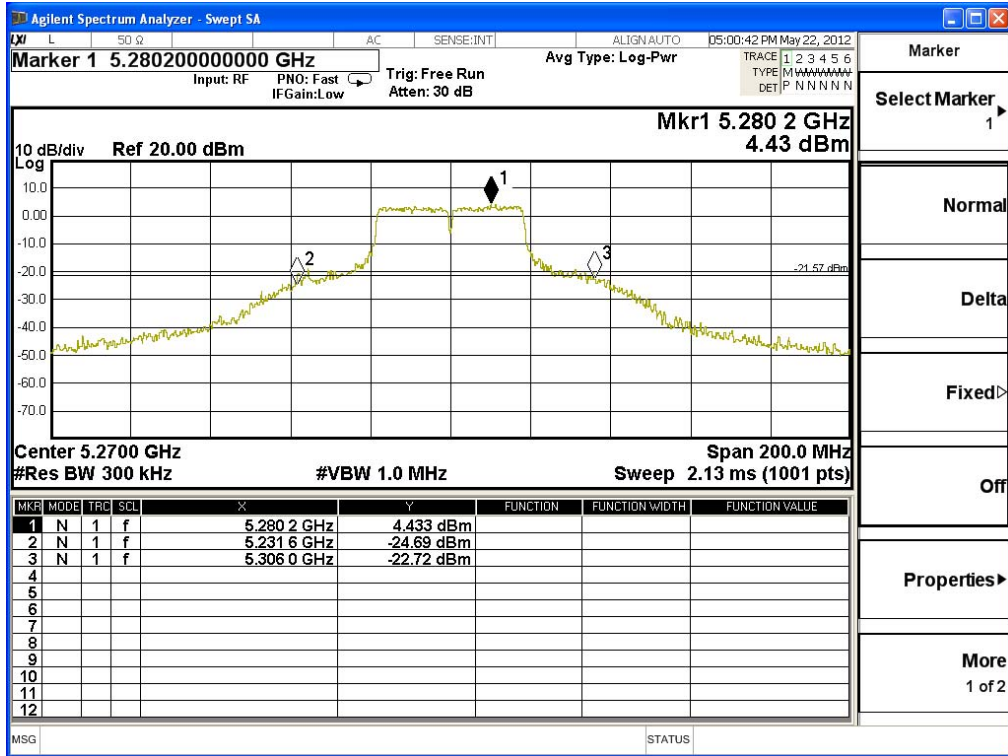
**26dBc Occupied Bandwidth:  
Channel 38 – Chain A**



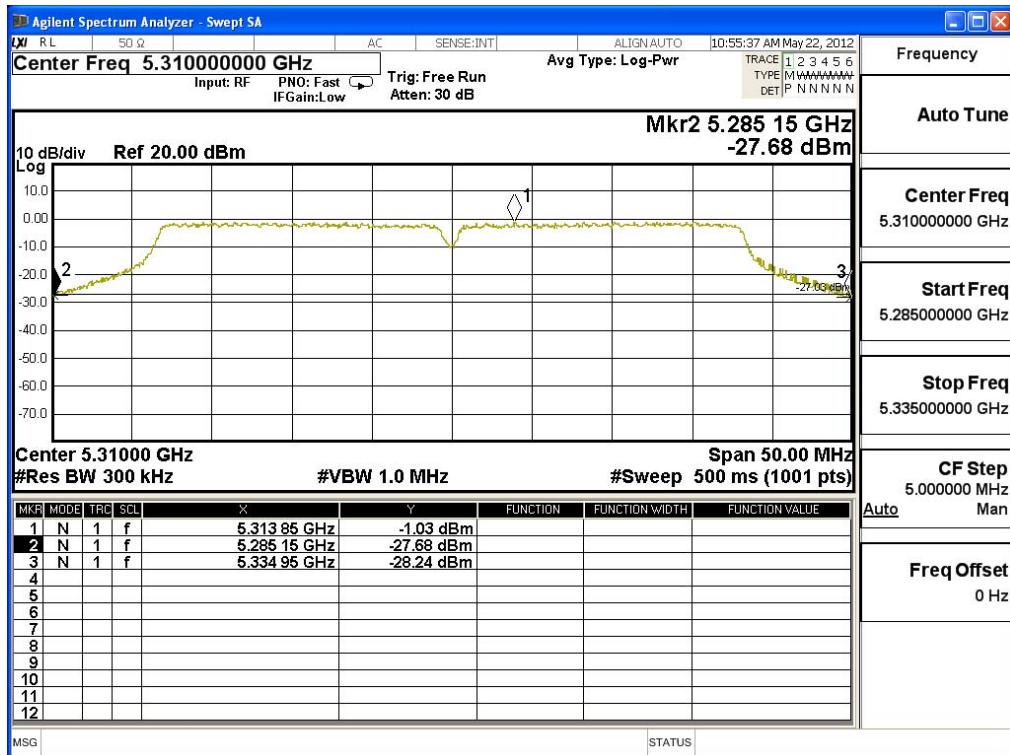
**Channel 46 – Chain A**



Channel 54 – Chain A

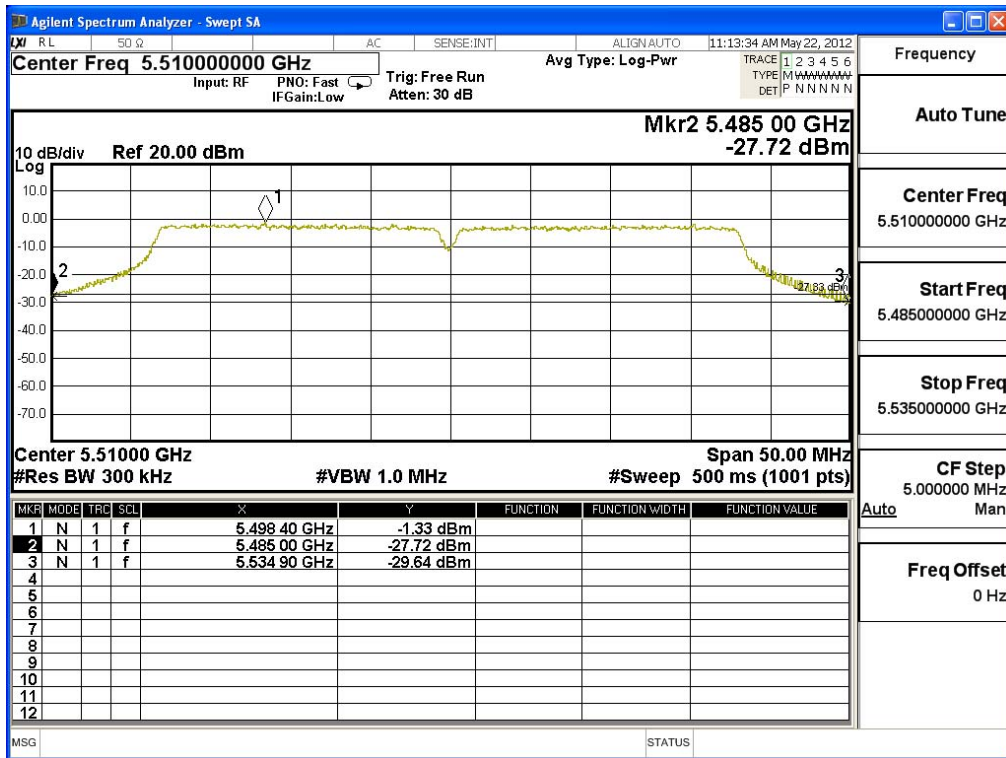


Channel 62 – Chain A

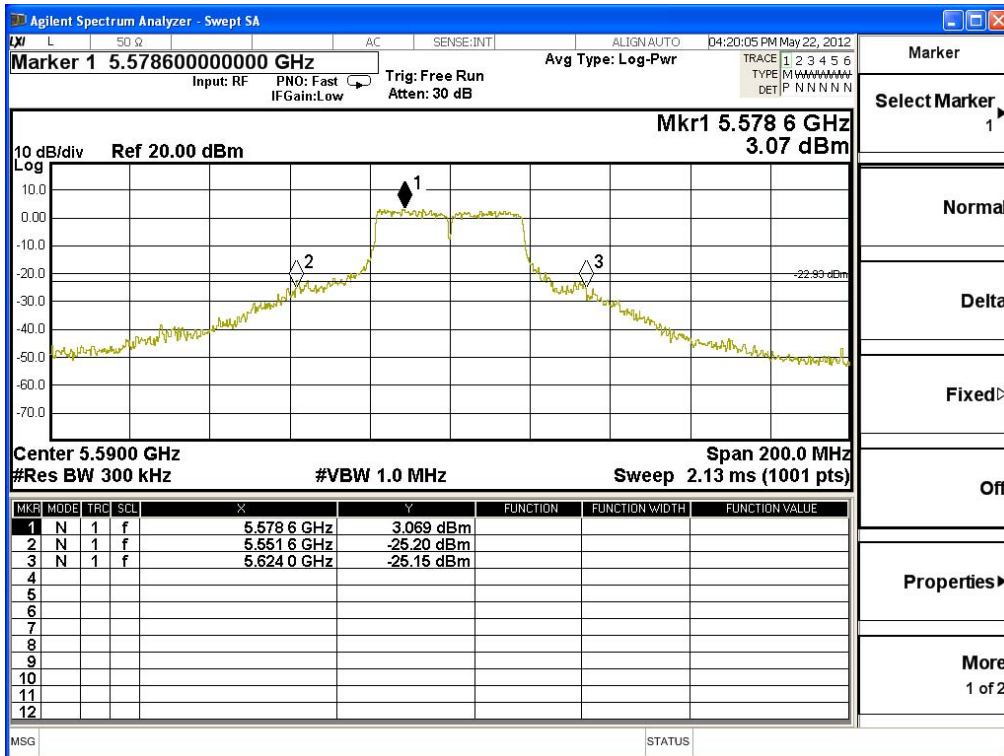




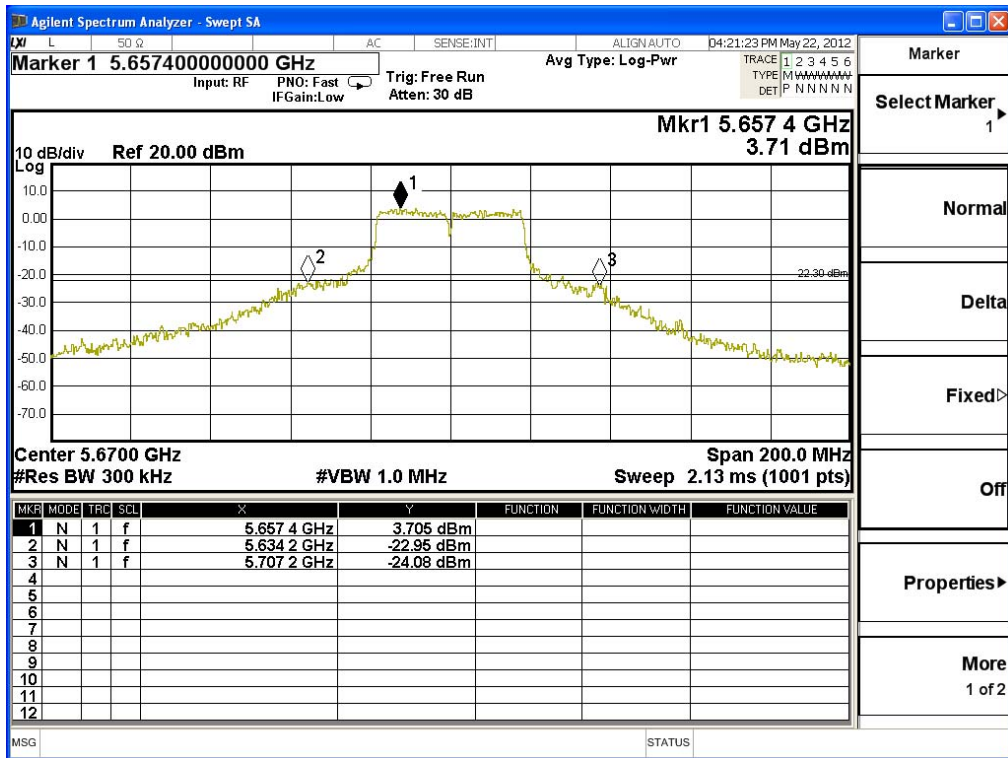
### Channel 102 – Chain A



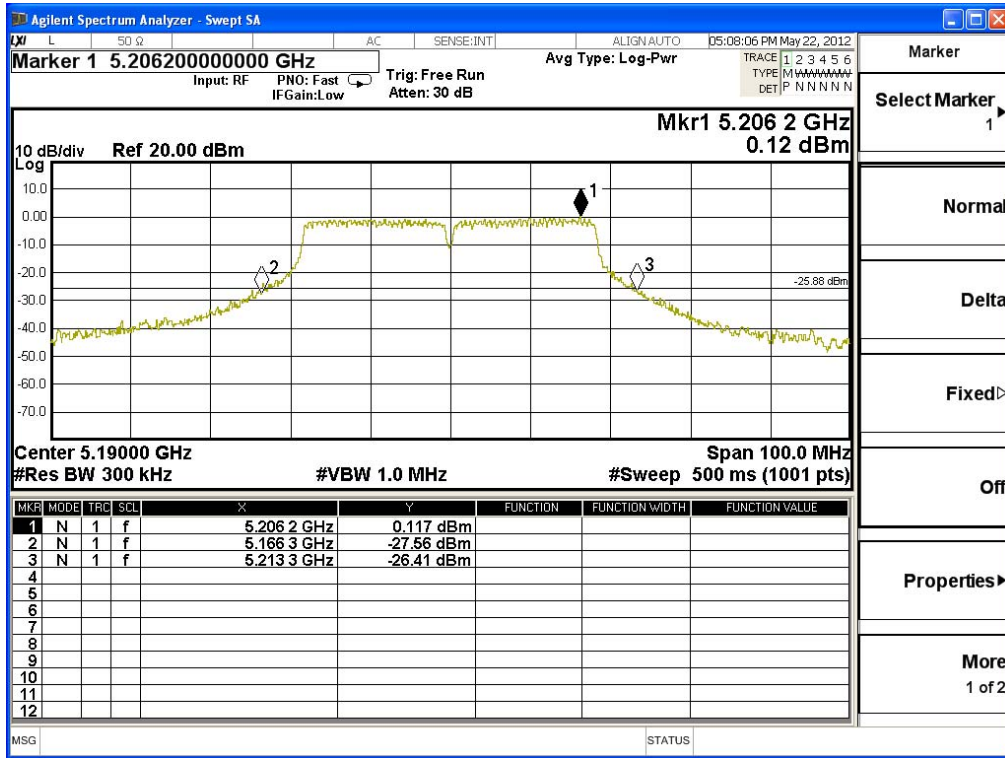
### Channel 118 – Chain A



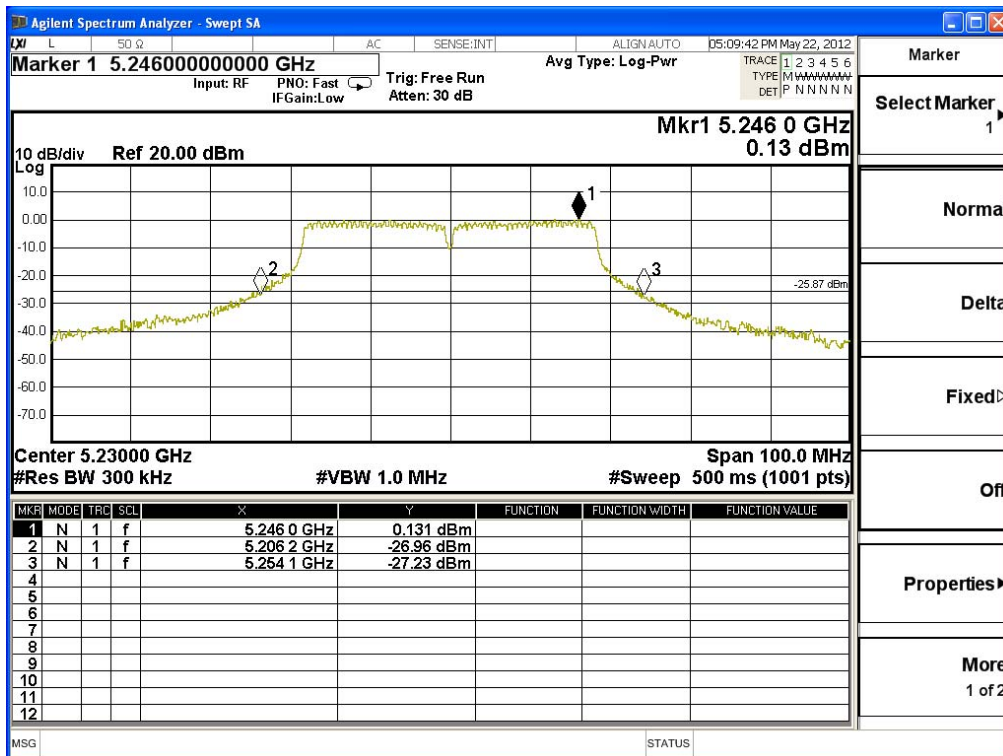
Channel 134 – Chain A



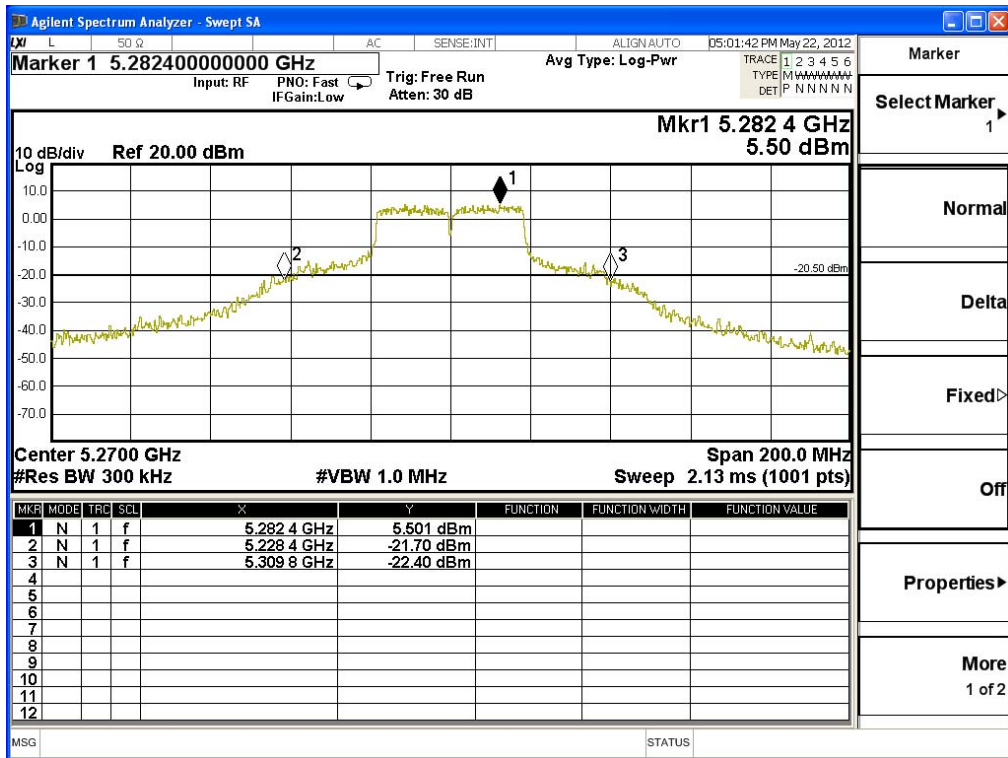
Channel 38 – Chain B



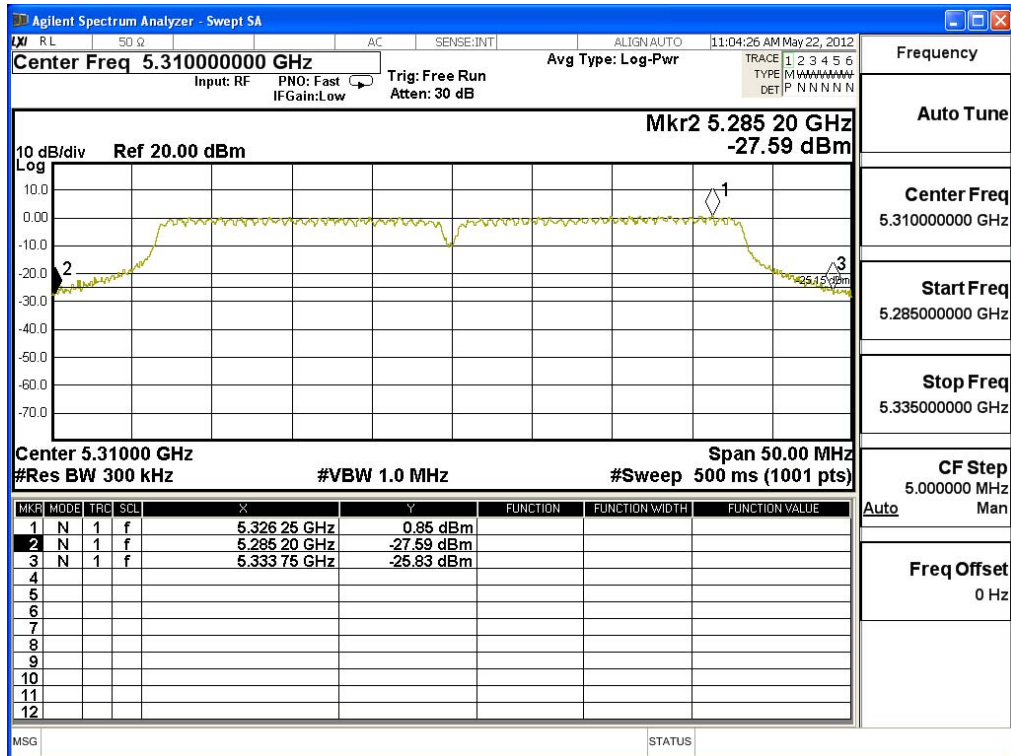
Channel 46 – Chain B



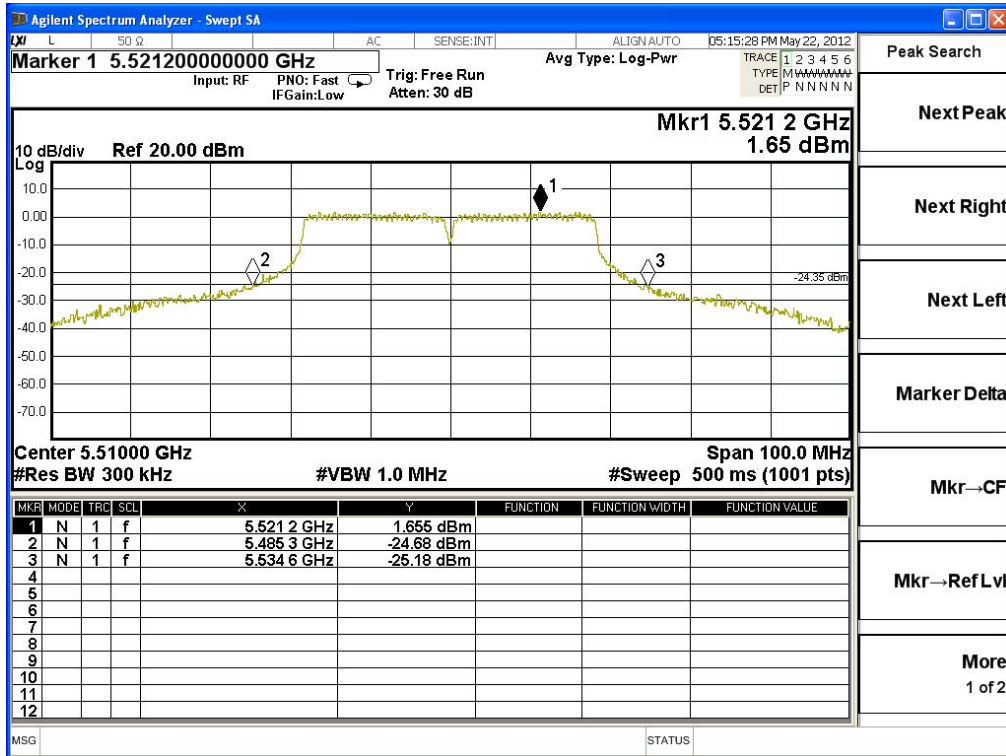
**Channel 54 – Chain B**



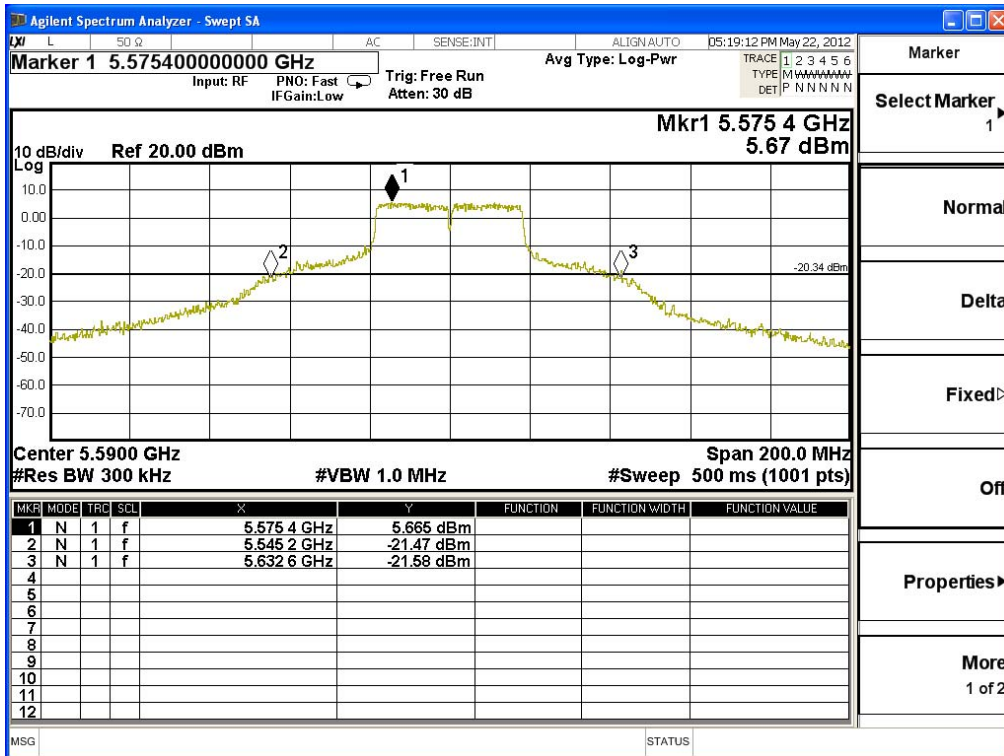
**Channel 62 – Chain B**



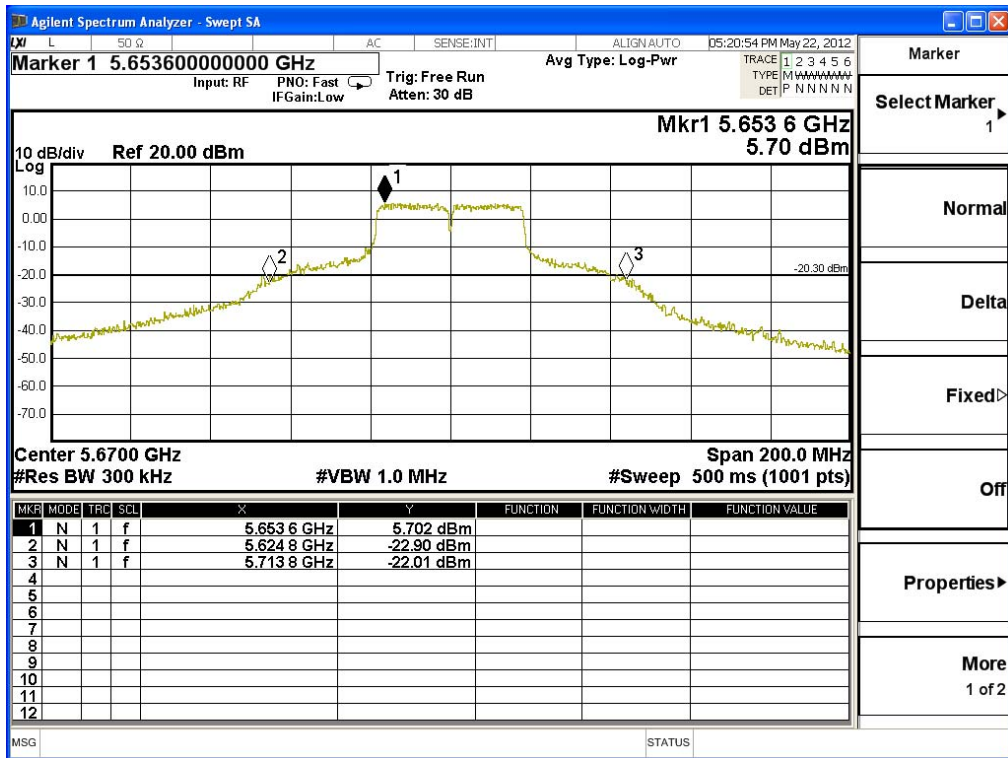
**Channel 102 – Chain B**



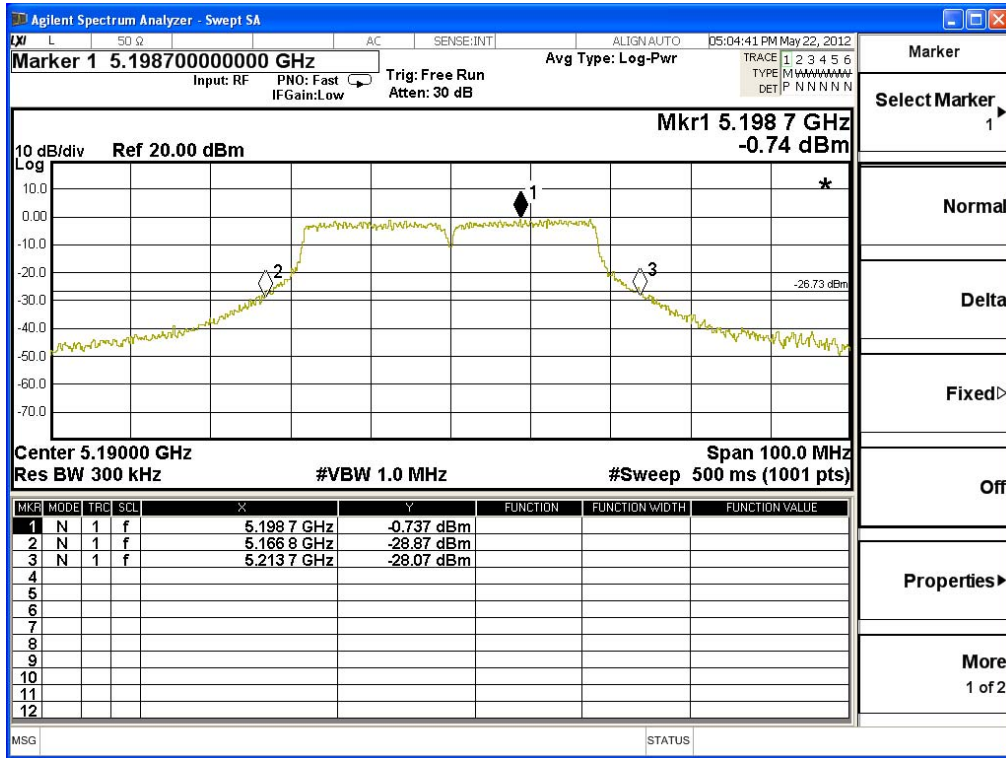
**Channel 118 – Chain B**



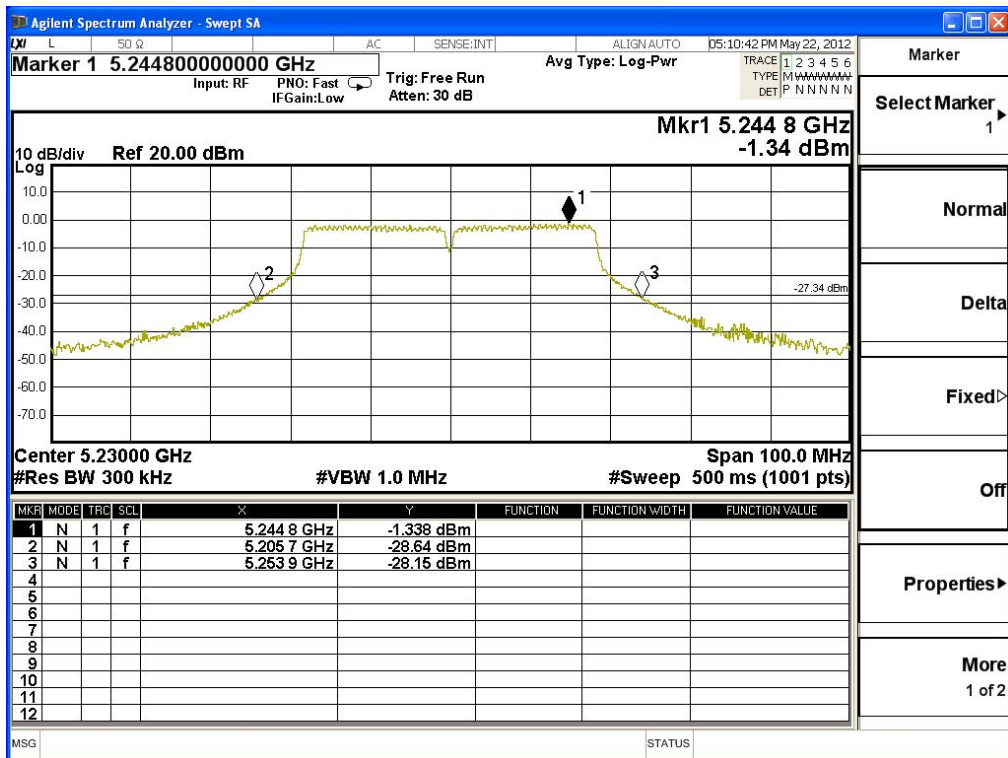
Channel 134 – Chain B



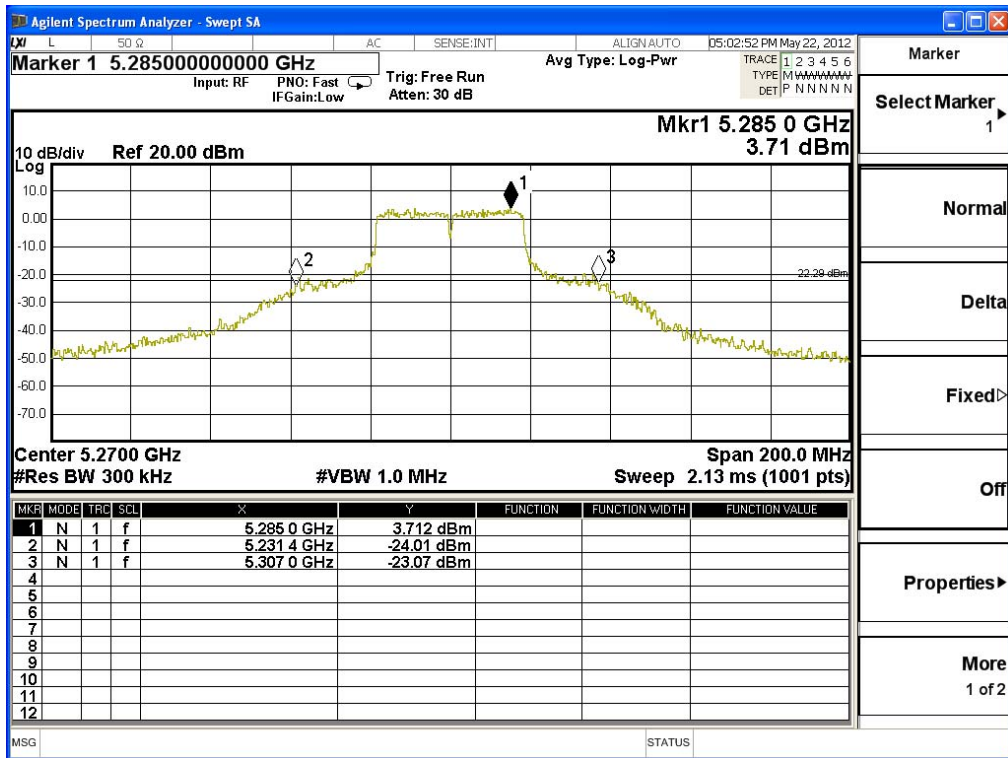
**Channel 38 – Chain C**



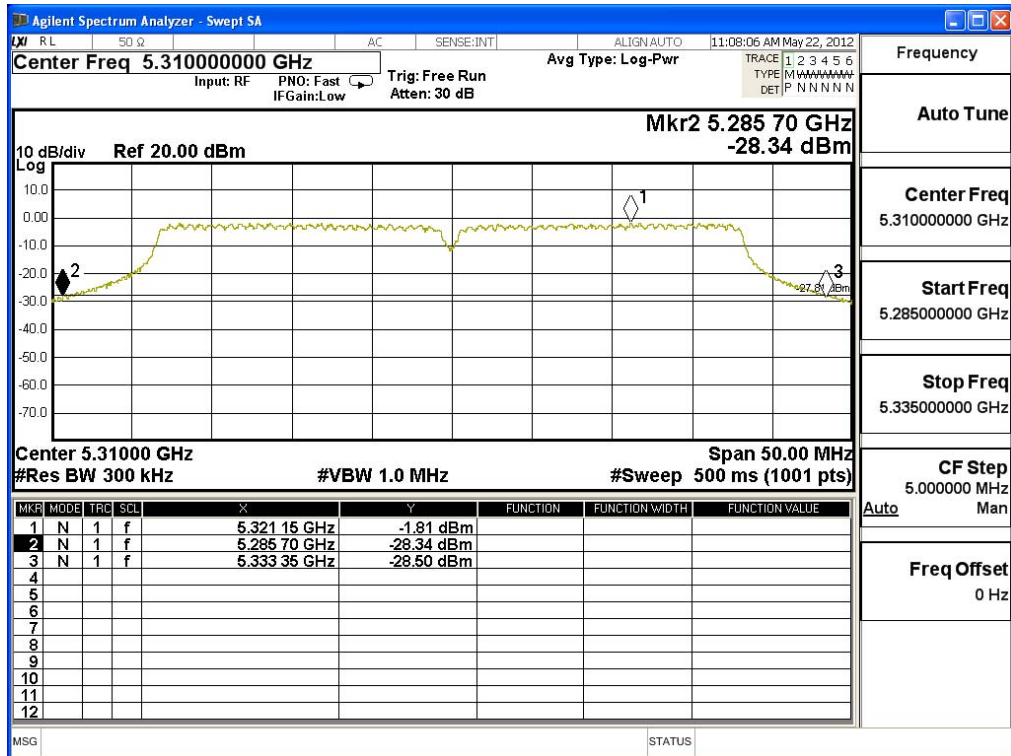
**Channel 46 – Chain C**



Channel 54 – Chain C

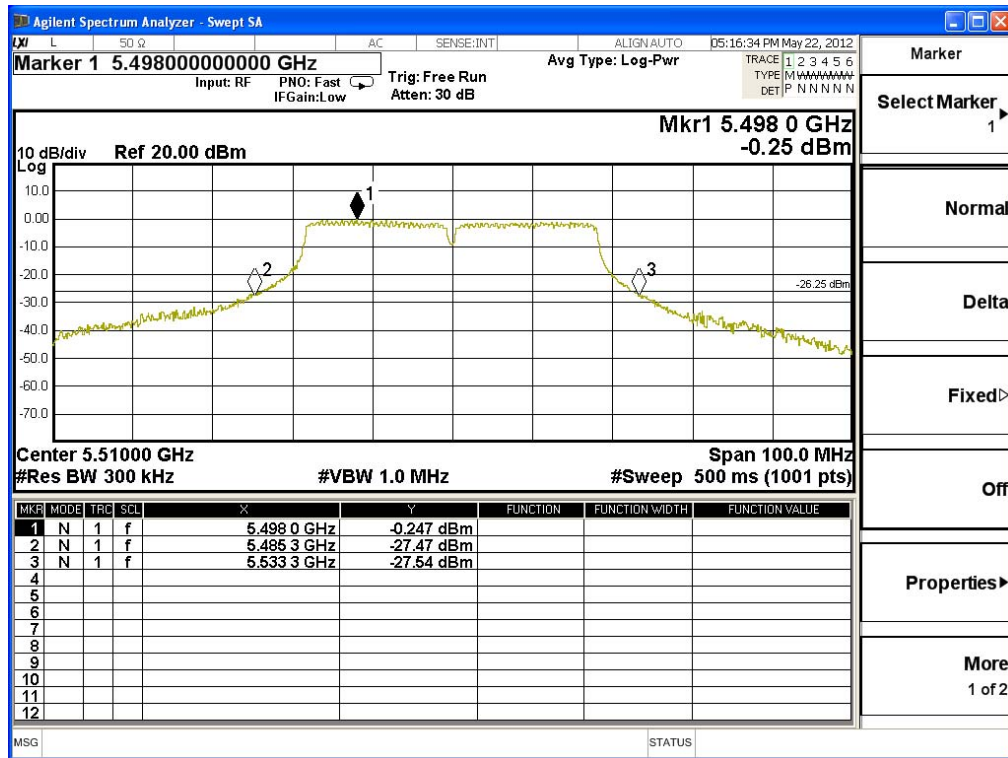


Channel 62 – Chain C

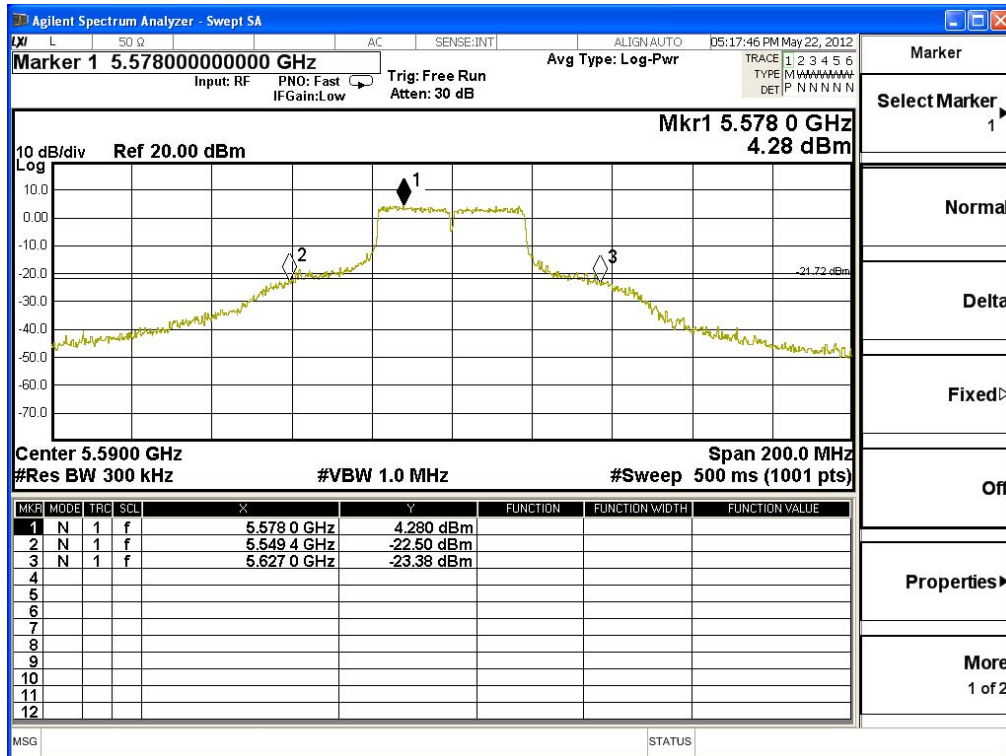




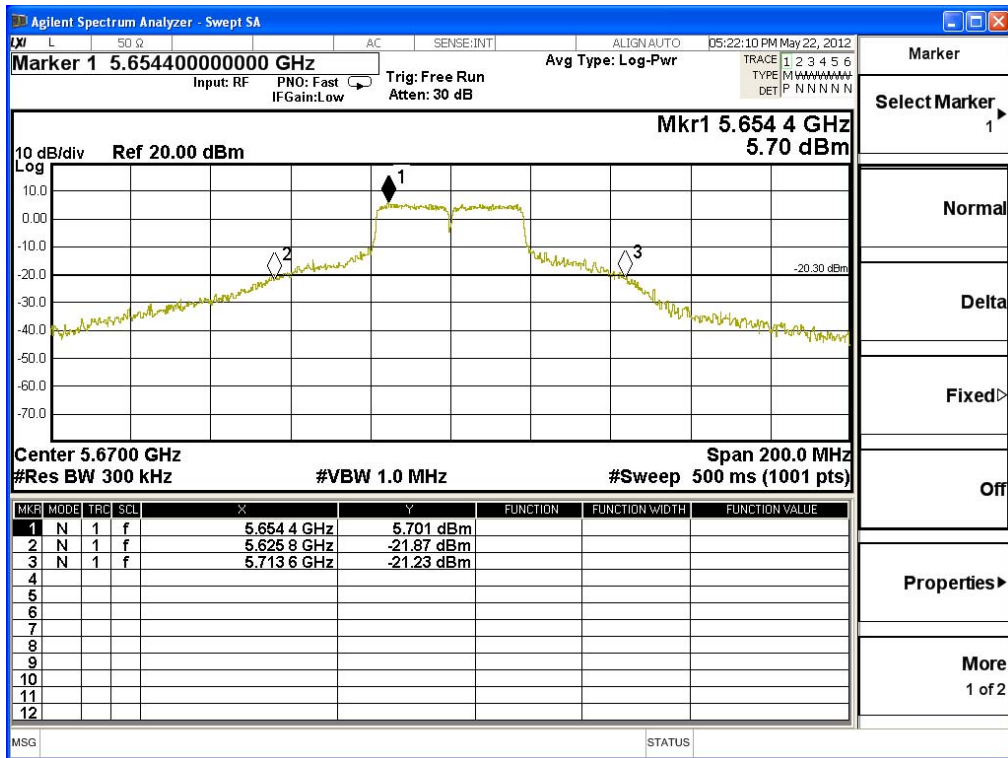
### Channel 102 – Chain C



### Channel 118 – Chain C



Channel 134 – Chain C



## 4. Peak Power Spectral Density

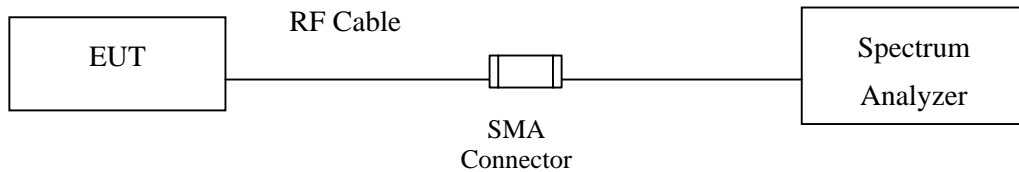
### 4.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2012
	Spectrum Analyzer	Agilent	E4407B / US39440758	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.

### 4.2. Test Setup



### 4.3. Limits

- (4) For the band 5.15-5.25 GHz, the peak power spectral density shall not exceed 4 dBm in any 1-MHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
- (5) For the band 5.25-5.35 GHz, the peak power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
- (6) For the band 5.725-5.825 GHz, the peak power spectral density shall not exceed 17 dBm in any 1-MHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.

#### 4.4. Test Procedure

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.

#### 4.5. Uncertainty

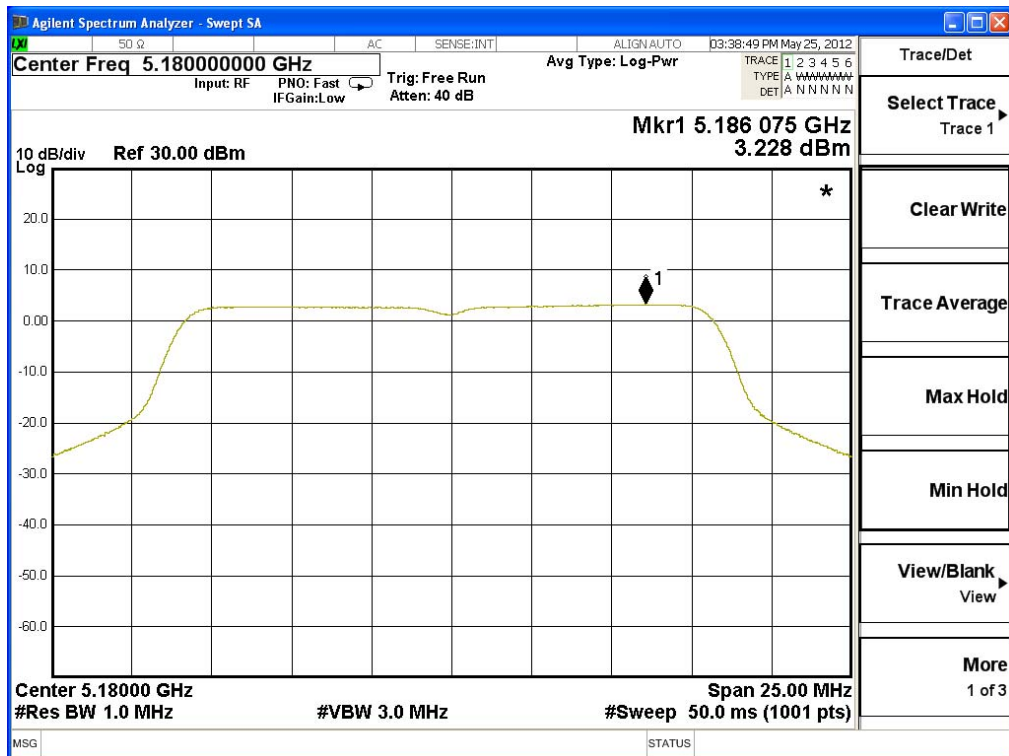
$\pm 1.27$  dB

### 4.6. Test Result of Peak Power Spectral Density

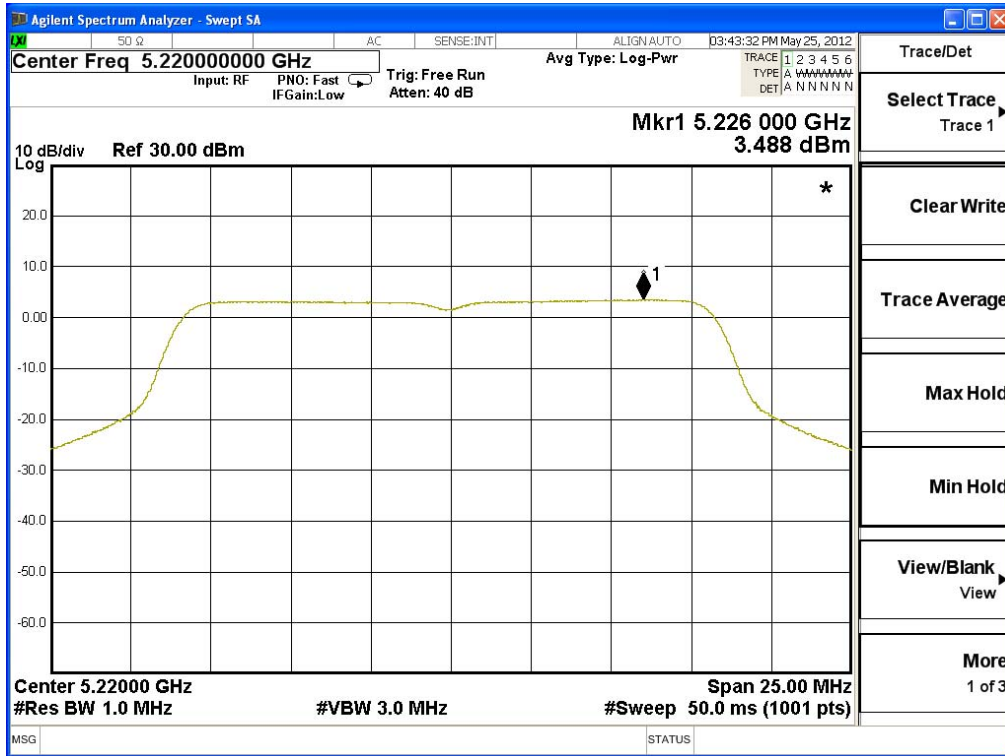
Product : 802.11 a/b/g/n, 2.4G/5G 3T3R Wireless Module  
 Test Item : Peak Power Spectral Density  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmitter (802.11a-6Mbps)

Channel Number	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
36	5180	3.228	<4	Pass
44	5220	3.296	<4	Pass
48	5240	3.488	<4	Pass
52	5260	5.530	<11	Pass
60	5300	5.550	<11	Pass
64	5320	5.240	<11	Pass
100	5500	3.840	<11	Pass
120	5600	4.950	<11	Pass
140	5700	4.750	<11	Pass

**Channel 36:**



**Channel 44:**



**Channel 48:**

