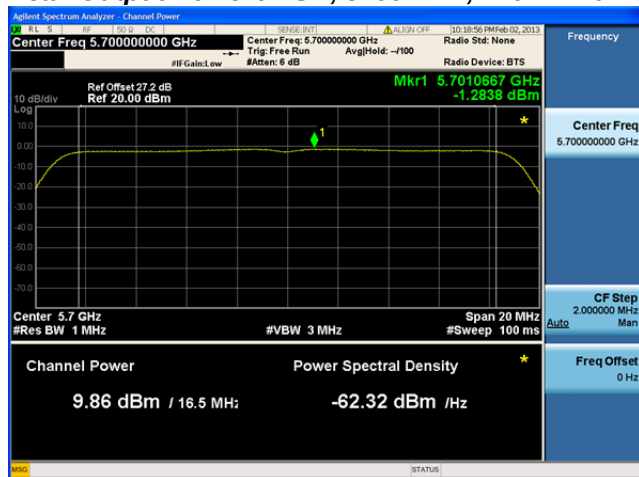
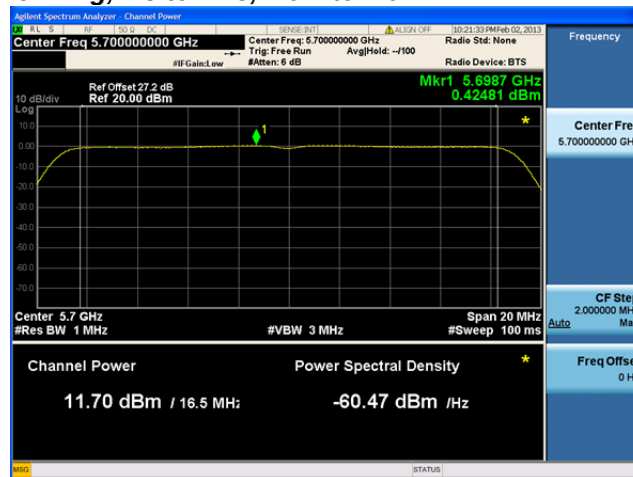
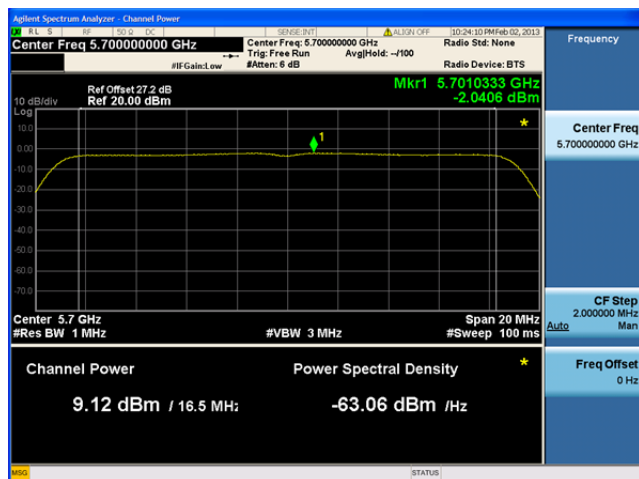
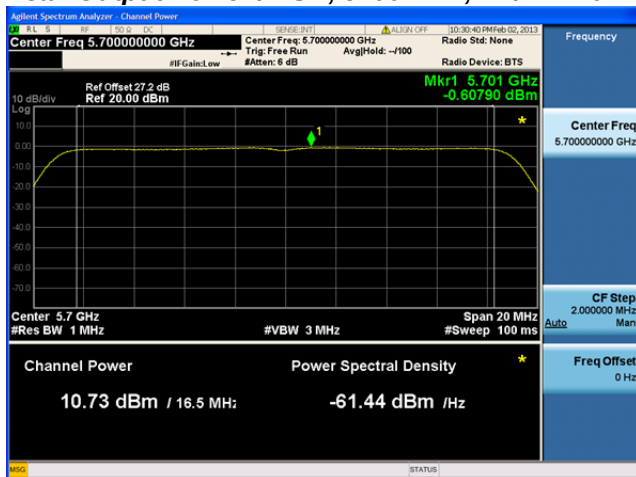
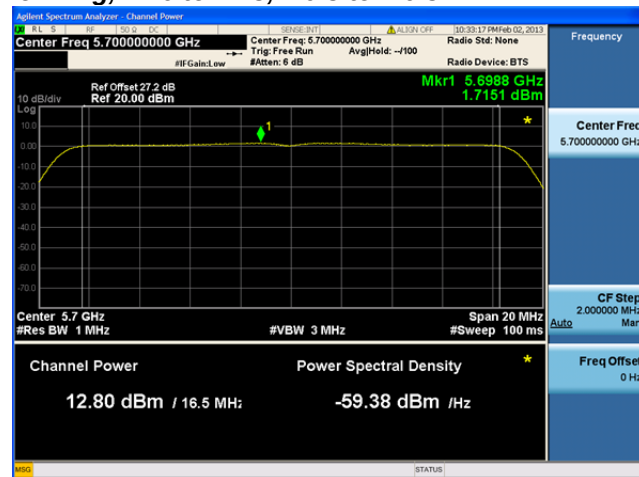
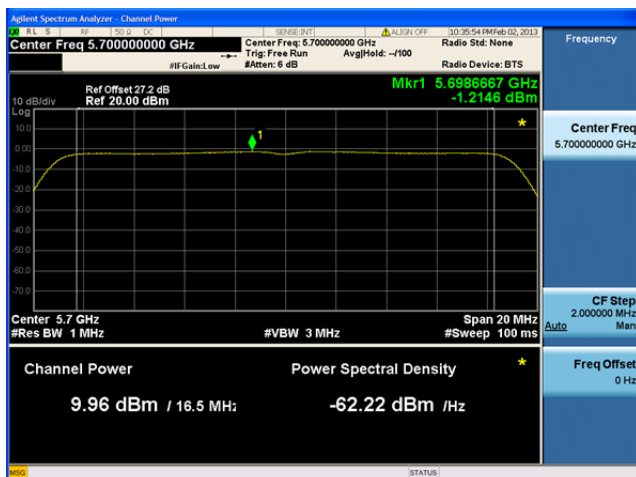
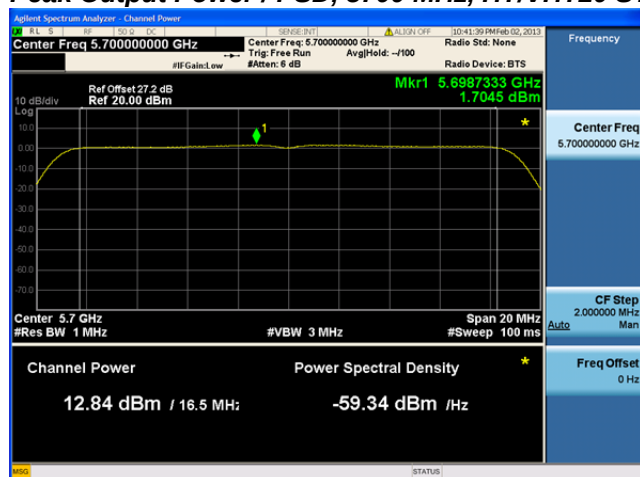
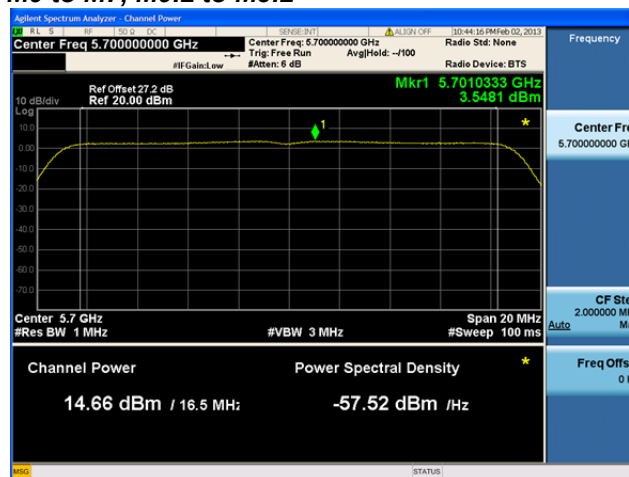
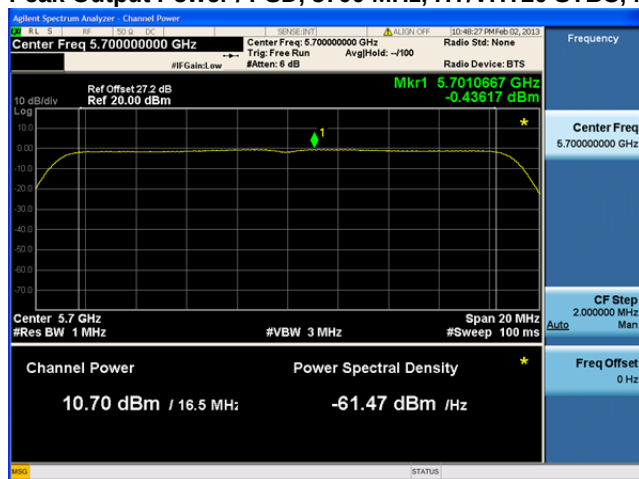
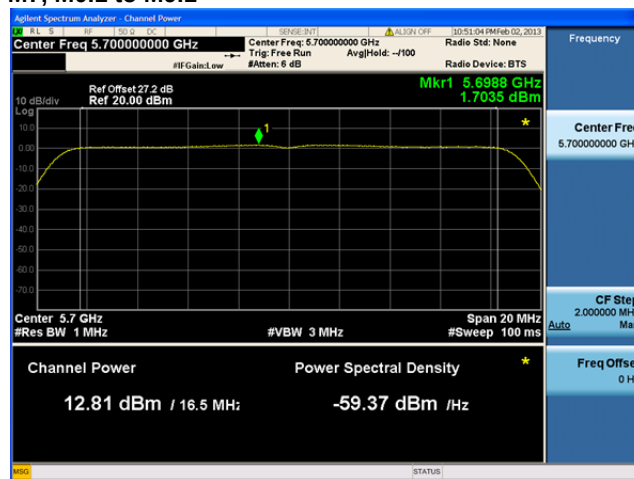
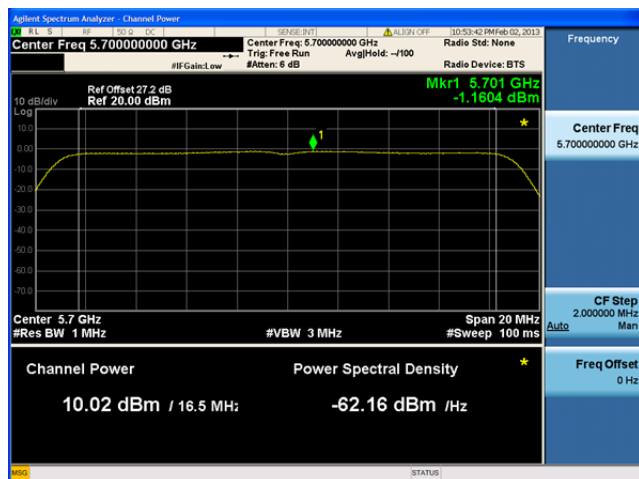


**Peak Output Power / PSD, 5700 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C**

**Peak Output Power / PSD, 5700 MHz, HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C**

**Peak Output Power / PSD, 5700 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B**

**Peak Output Power / PSD, 5700 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C**



Peak Excursion

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

Set the spectrum analyzer span to view the entire emission bandwidth. The largest difference between the following two traces must be ≤ 13 dB for all frequencies across the emission bandwidth.

Set the spectrum analyzer span to view the entire emission bandwidth. The largest difference between the following two traces must be ≤ 13 dB for all frequencies across the emission bandwidth.

1st Trace: (Peak)

Set Span to encompass the entire emission bandwidth of the signal.

RBW = 1 MHz, VBW = 3 MHz

Detector = Peak

Sweep = Auto

Trace 1 = Max-hold

Ref Level Offset = correct for attenuator and cable loss

Ref Level = 20dBm

Atten = 10dBm

2nd Trace: (Average)

Trace 2 = clear right

Detector = Sample

Avg/VBW type = Pwr(RMS)

Average = 100

Sweep = single

Set marker Deltas

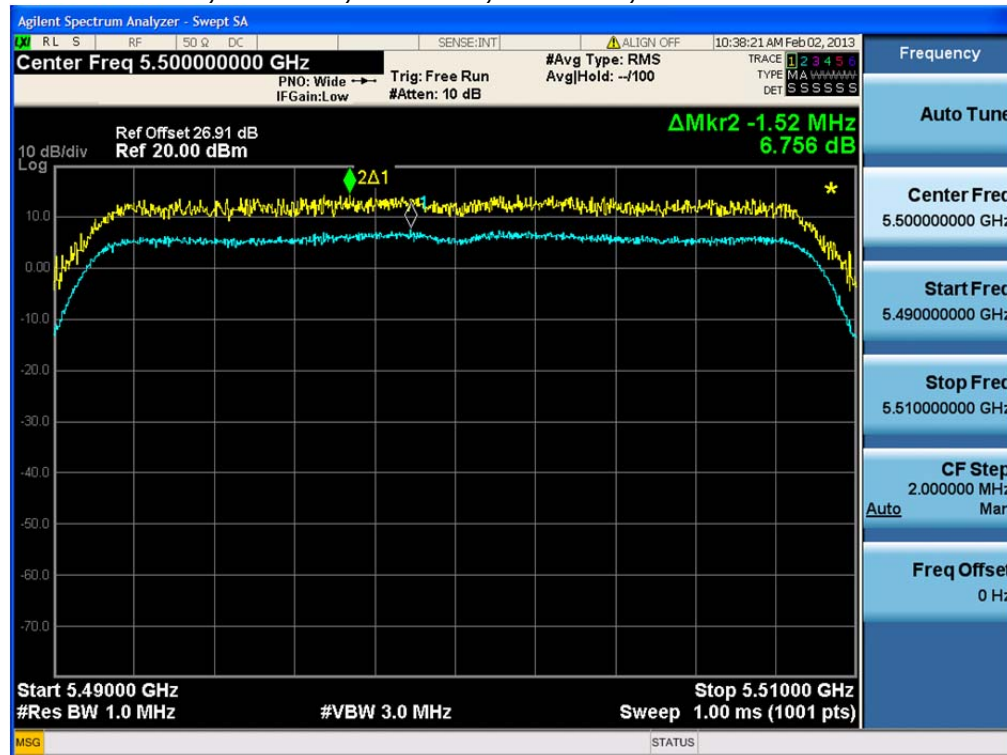
Trace 1 & Peak search

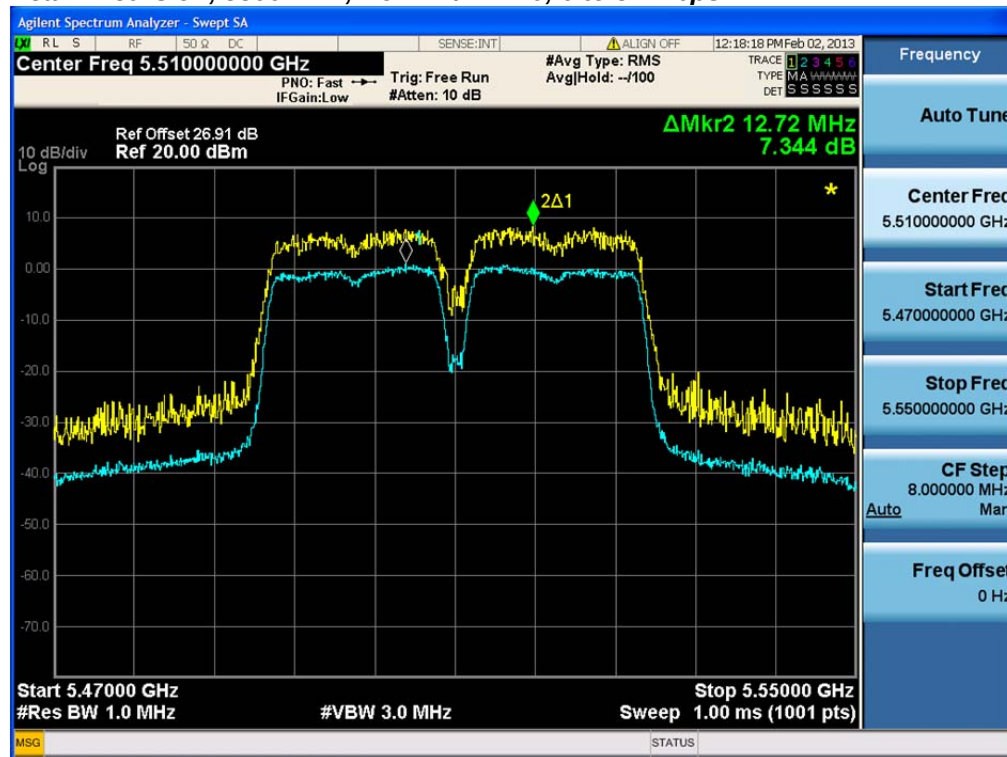
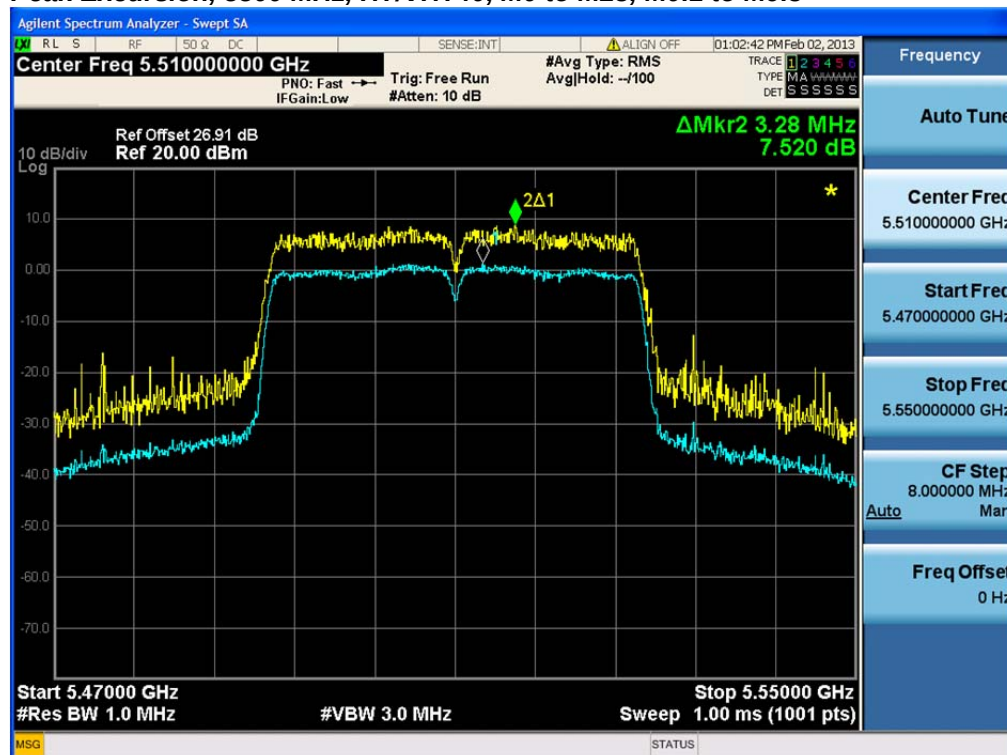
Marker Delta

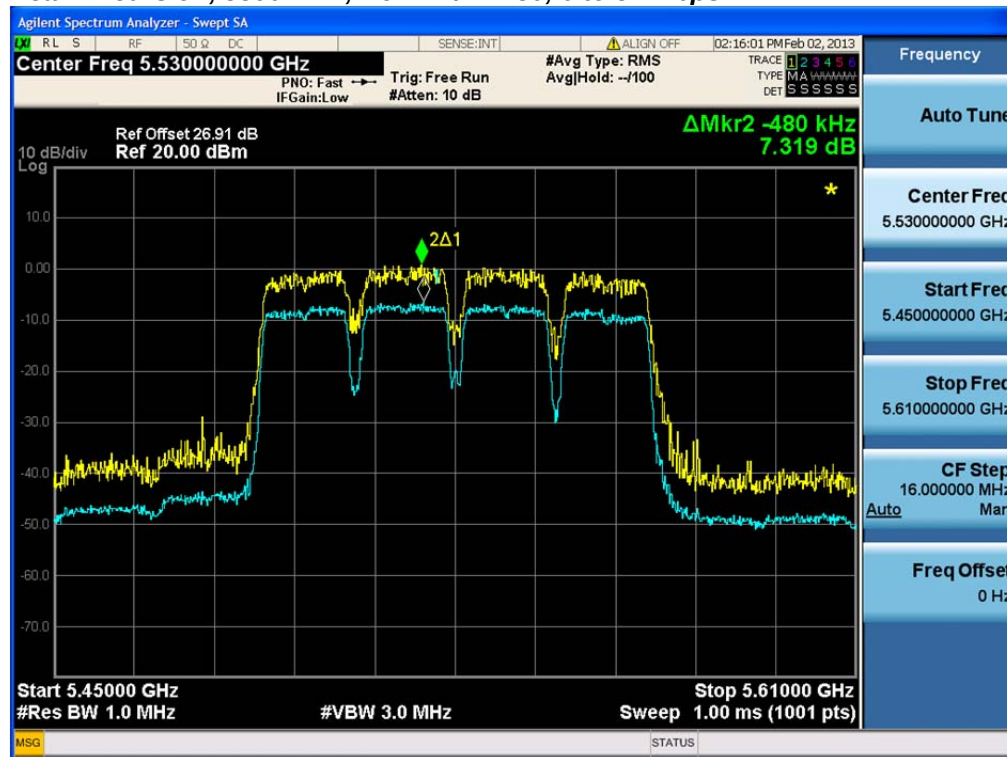
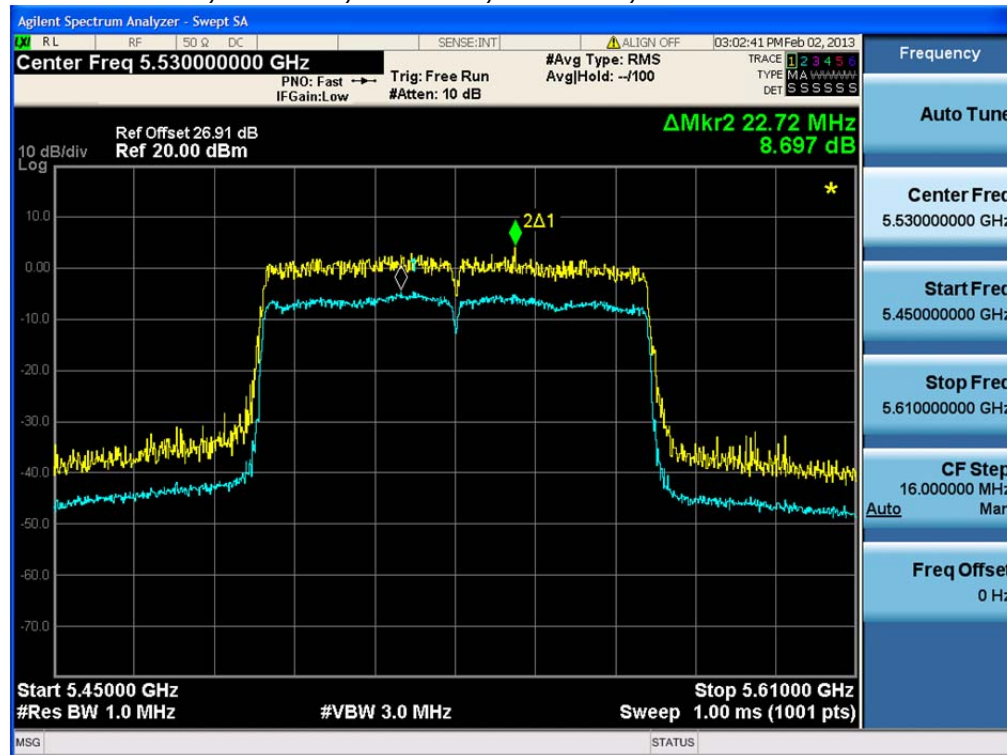
Trace 2 & Peak search

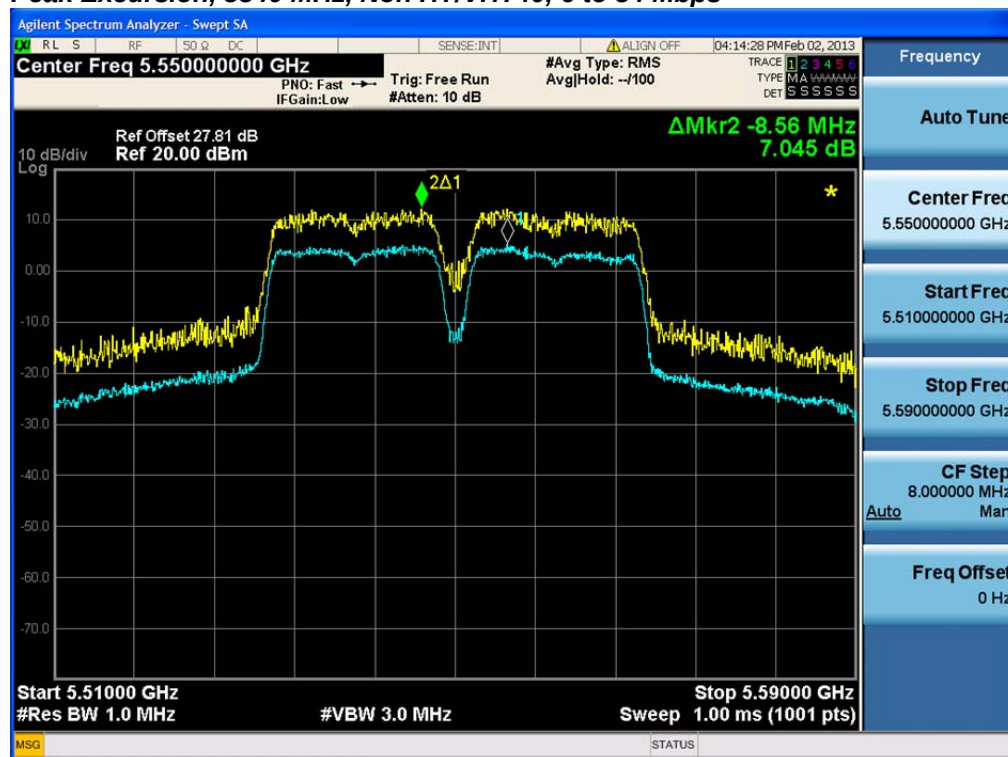
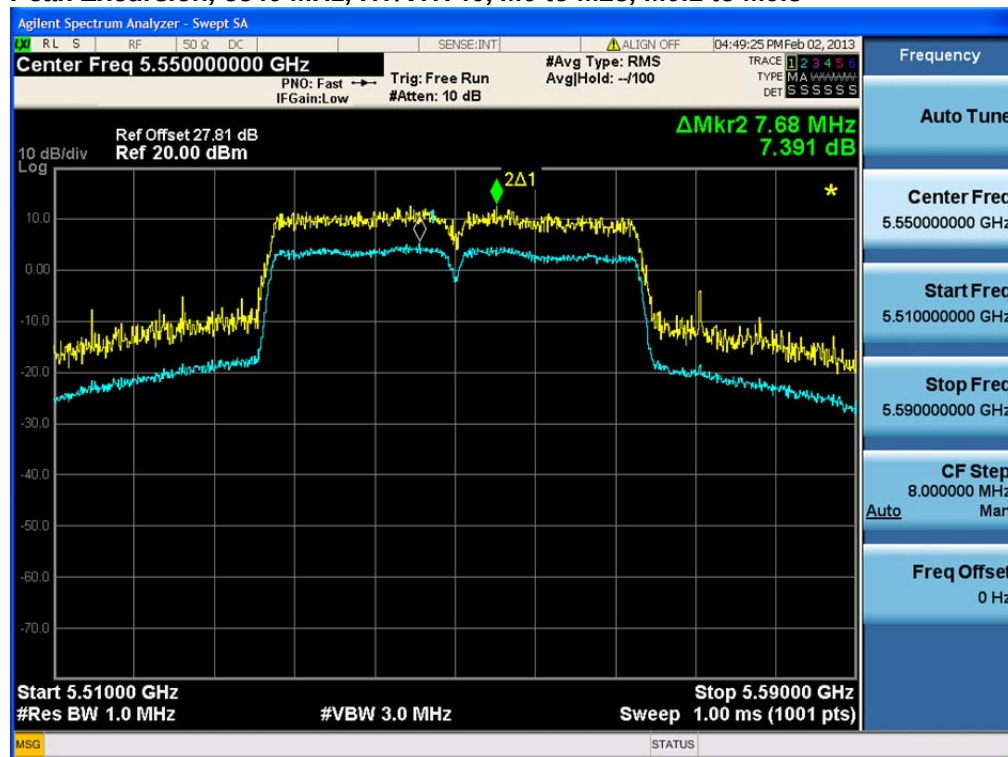
Record the difference between the Peak and Average Markers

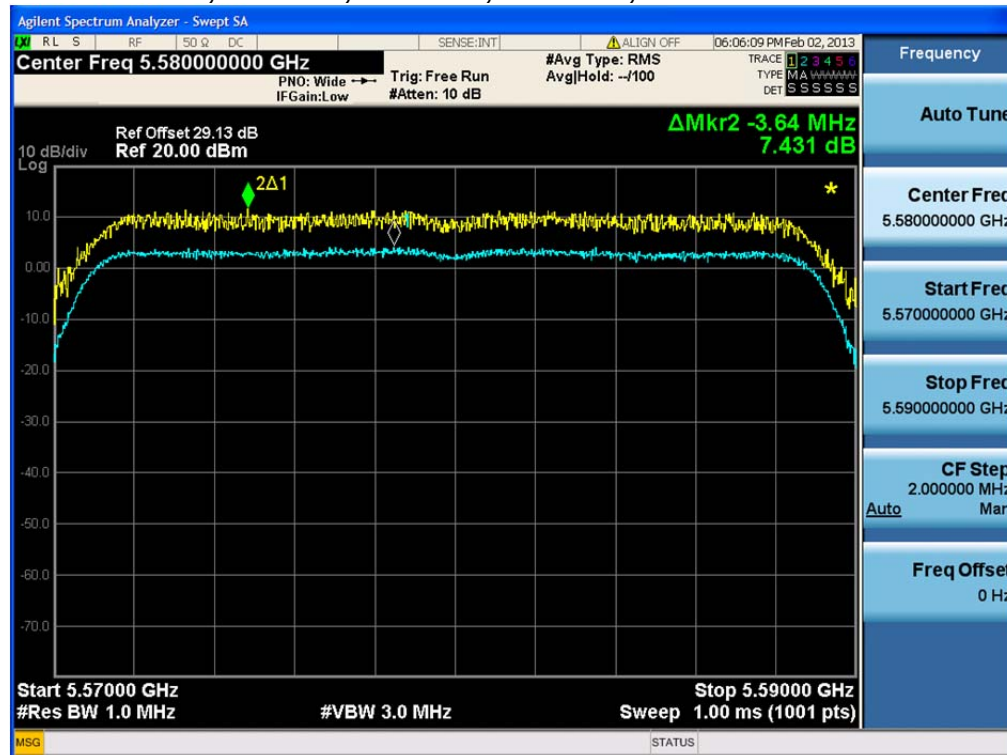
Frequency (MHz)	Mode	Data Rate (Mbps)	Peak Excursion (dB)	Limit (dBm/MHz)	Margin (dB)
5500	Non HT/VHT20, 6 to 54 Mbps	6	7.1	13	5.9
	HT/VHT20, M0 to M23, M0.1 to M9.3	M0.	6.8	13	6.2
	Non HT/VHT40, 6 to 54 Mbps	6	7.3	13	5.7
	HT/VHT40, M0 to M23, M0.1 to M9.3	M0.	7.3	13	5.7
	Non HT/VHT80, 6 to 54 Mbps	6	6.9	13	6.1
	HT/VHT80, M0 to M23, M0.1 to M9.3	M0x1	8.1	13	4.9
5540	Non HT/VHT40, 6 to 54 Mbps	6	7	13	6
	HT/VHT40, M0 to M23, M0.1 to M9.3	M0.	7.5	13	5.5
5580	Non HT/VHT20, 6 to 54 Mbps	6	7.1	13	5.9
	HT/VHT20, M0 to M23, M0.1 to M9.3	M0.	7.4	13	5.6
5660	Non HT/VHT40, 6 to 54 Mbps	6	7.1	13	5.9
	HT/VHT40, M0 to M23, M0.1 to M9.3	M0.	7.4	13	5.6
5700	Non HT/VHT20, 6 to 54 Mbps	6	7.1	13	5.9
5700	HT/VHT20, M0 to M23, M0.1 to M9.3	M0.	7.1	13	5.9

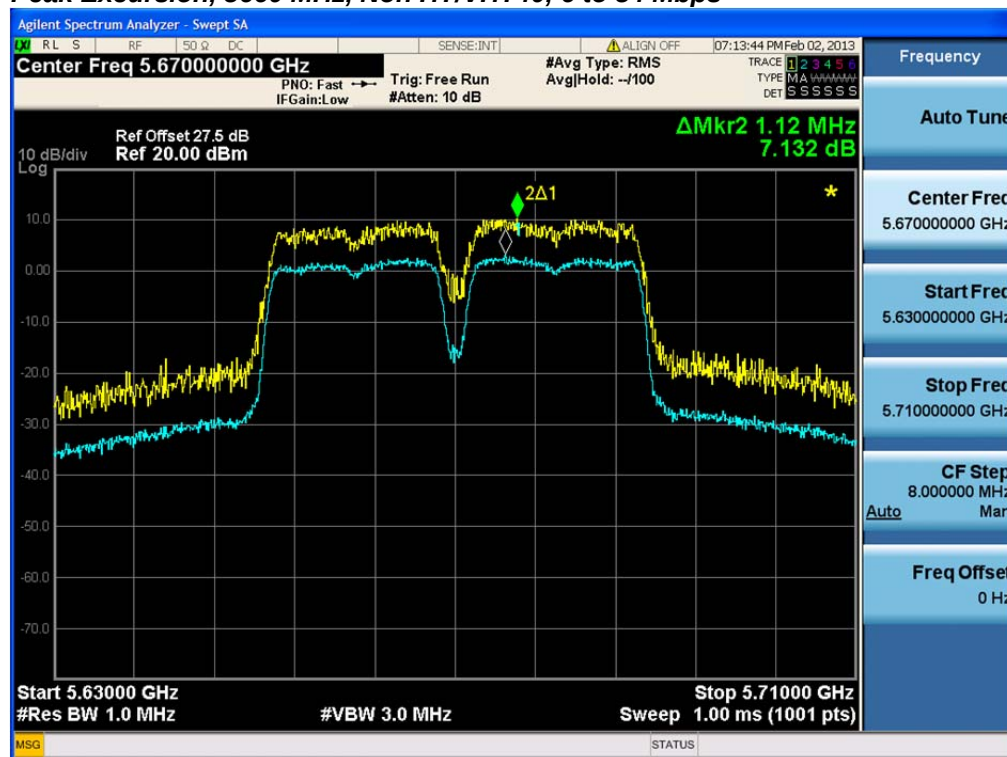
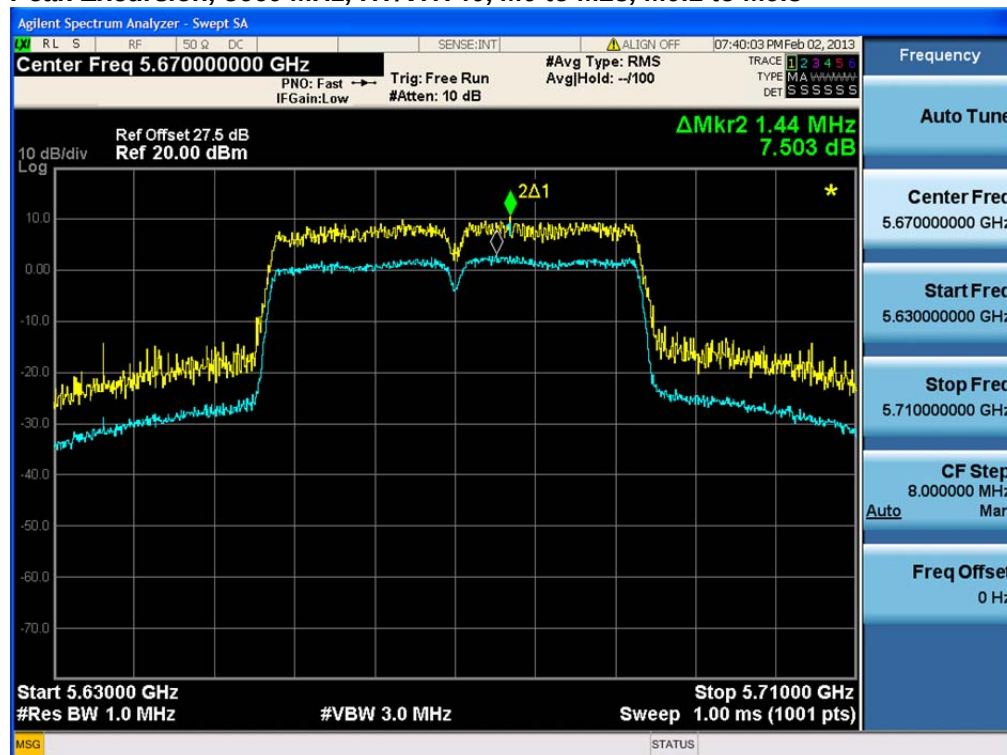
**Peak Excursion, 5500 MHz, Non HT/VHT20, 6 to 54 Mbps****Peak Excursion, 5500 MHz, HT/VHT20, M0 to M23, M0.1 to M9.3**

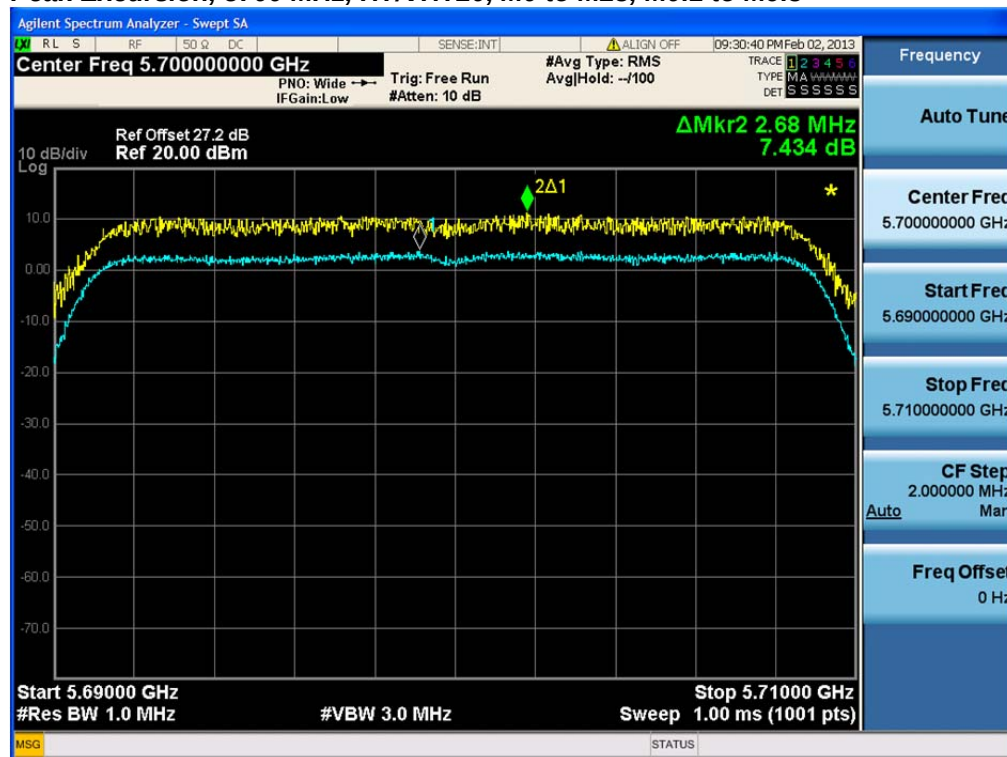
Peak Excursion, 5500 MHz, Non HT/VHT40, 6 to 54 Mbps**Peak Excursion, 5500 MHz, HT/VHT40, M0 to M23, M0.1 to M9.3**

Peak Excursion, 5500 MHz, Non HT/VHT80, 6 to 54 Mbps**Peak Excursion, 5500 MHz, HT/VHT80, M0 to M23, M0.1 to M9.3**

Peak Excursion, 5540 MHz, Non HT/VHT40, 6 to 54 Mbps**Peak Excursion, 5540 MHz, HT/VHT40, M0 to M23, M0.1 to M9.3**

Peak Excursion, 5580 MHz, Non HT/VHT20, 6 to 54 Mbps**Peak Excursion, 5580 MHz, HT/VHT20, M0 to M23, M0.1 to M9.3**

Peak Excursion, 5660 MHz, Non HT/VHT40, 6 to 54 Mbps**Peak Excursion, 5660 MHz, HT/VHT40, M0 to M23, M0.1 to M9.3**

Peak Excursion, 5700 MHz, Non HT/VHT20, 6 to 54 Mbps**Peak Excursion, 5700 MHz, HT/VHT20, M0 to M23, M0.1 to M9.3**



Conducted Spurious Emissions

15.407: For transmitters operating in the 5.25-5.35 and 5.47-5.725 GHz band: all emissions outside of the 5.25-5.35 and 5.47-5.725 GHz bands shall not exceed an EIRP of -27dBm/MHz.

Connect the antenna port(s) to the spectrum analyzer input. Place the radio in continuous transmit mode. Configure the spectrum analyzer as shown below (be sure to enter all losses between the transmitter output and the spectrum analyzer).

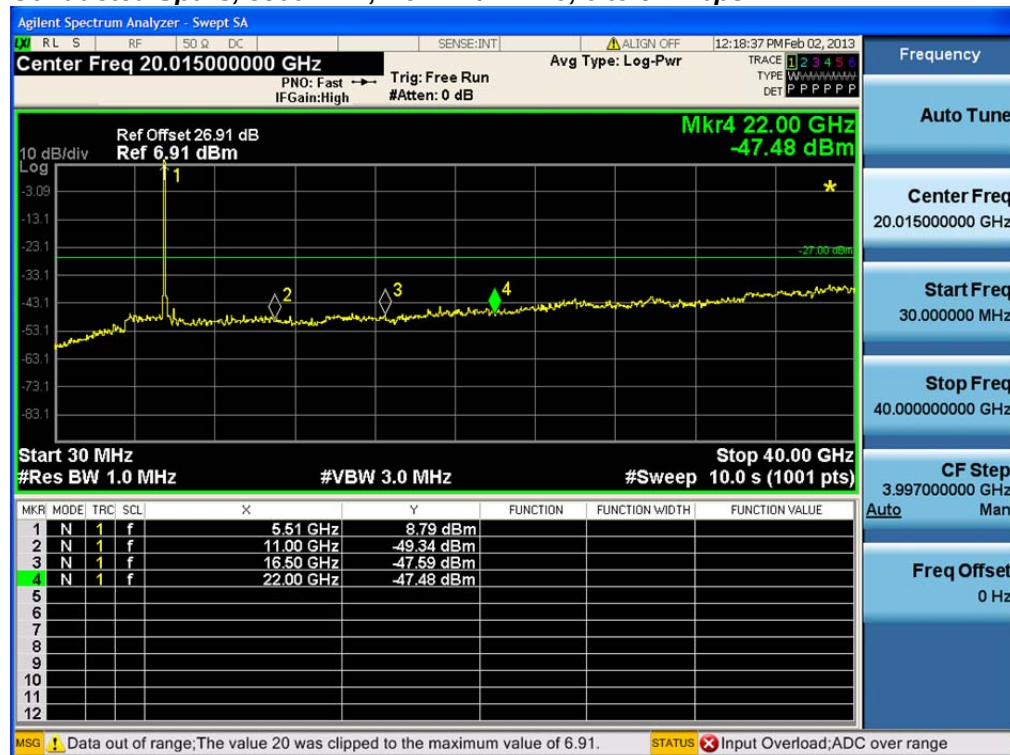
Span:	30 MHz-40 GHz
Reference Level:	20 dBm
Attenuation:	10 dB
Sweep Time:	10 s
Resolution Bandwidth:	1 MHz
Video Bandwidth:	3 MHz
Detector:	Peak
Trace:	Single
Marker:	Peak

Record the marker waveform peak to spur difference

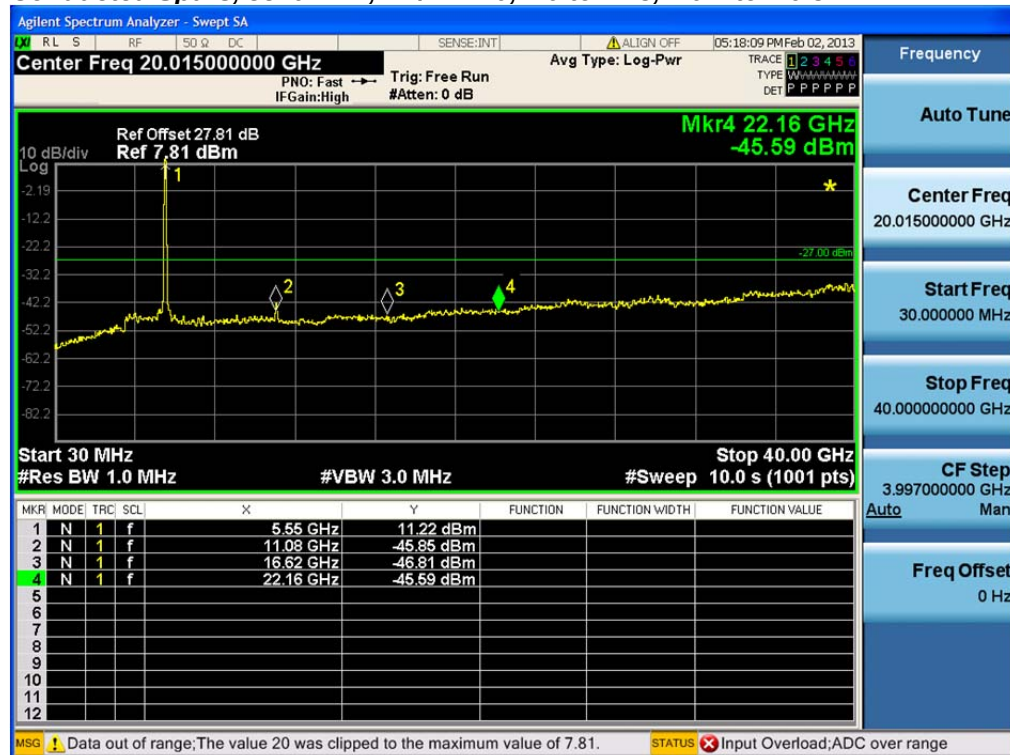


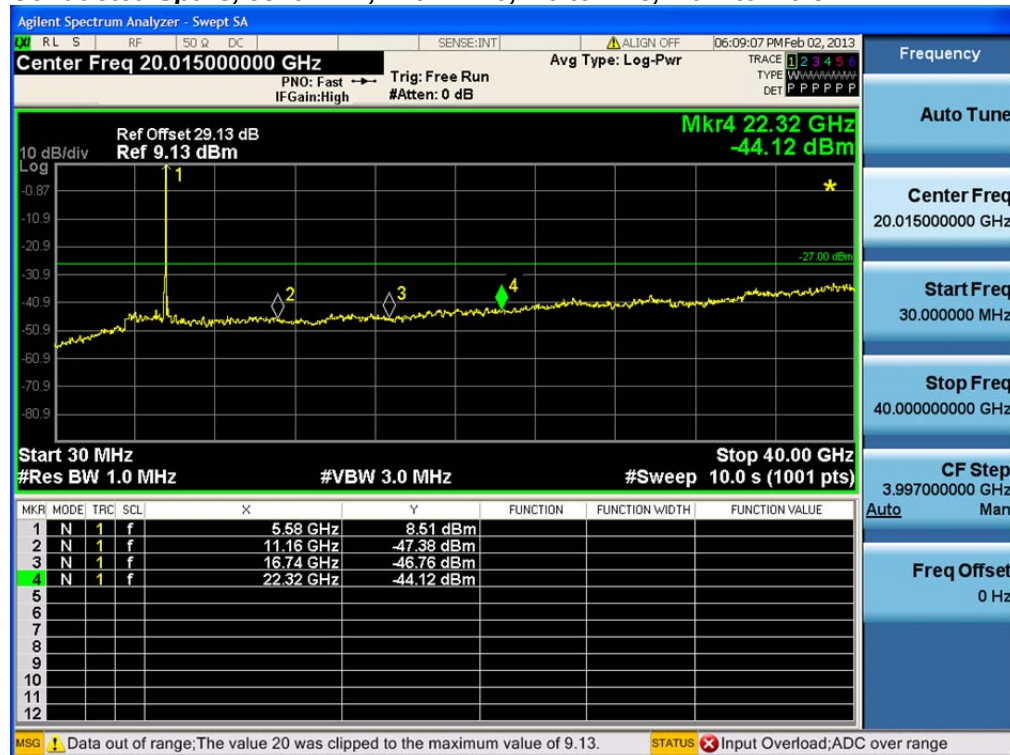
Frequency (MHz)	Mode	Tx Paths	Correlated Antenna Gain (dBi)	Conducted Spur (dBm/MHz)	Total Conducted Spur (dBm/MHz)	Limit (dBm)	Margin (dB)
5500	Non HT/VHT20, 6 to 54 Mbps	2	10	-46.9	-34.09	-27	7.09
	HT/VHT20, M0 to M23, M0.1 to M9.3	3	5	-47.4	-37.63	-27	10.63
	Non HT/VHT40, 6 to 54 Mbps	1	5	-47.5	-42.50	-27	15.50
	HT/VHT40, M0 to M23, M0.1 to M9.3	3	5	-47	-37.23	-27	10.23
	Non HT/VHT80, 6 to 54 Mbps	2	5	-46.9	-38.89	-27	11.89
	HT/VHT80, M0 to M23, M0.1 to M9.3	3	5	-46.7	-36.93	-27	9.93
5540	Non HT/VHT40, 6 to 54 Mbps	2	5	-45.2	-37.19	-27	10.19
	HT/VHT40, M0 to M23, M0.1 to M9.3	2	8	-45.2	-34.19	-27	7.19
5580	Non HT/VHT20, 6 to 54 Mbps	2	10	-44.5	-31.69	-27	4.69
	HT/VHT20, M0 to M23, M0.1 to M9.3	3	5	-44.1	-34.33	-27	7.33
5660	Non HT/VHT40, 6 to 54 Mbps	2	5	-45.7	-37.69	-27	10.69
	HT/VHT40, M0 to M23, M0.1 to M9.3	2	8	-45.7	-34.69	-27	7.69
5700	Non HT/VHT20, 6 to 54 Mbps	2	10	-45.8	-32.99	-27	5.99
	HT/VHT20, M0 to M23, M0.1 to M9.3	2	8	-46.2	-35.19	-27	8.19

**Conducted Spurs, 5500 MHz, Non HT/VHT20, 6 to 54 Mbps****Conducted Spurs, 5500 MHz, HT/VHT20, M0 to M23, M0.1 to M9.3**

**Conducted Spurs, 5500 MHz, Non HT/VHT40, 6 to 54 Mbps****Conducted Spurs, 5500 MHz, HT/VHT40, M0 to M23, M0.1 to M9.3**

**Conducted Spurs, 5500 MHz, Non HT/VHT80, 6 to 54 Mbps****Conducted Spurs, 5500 MHz, HT/VHT80, M0 to M23, M0.1 to M9.3**

**Conducted Spurs, 5540 MHz, Non HT/VHT40, 6 to 54 Mbps****Conducted Spurs, 5540 MHz, HT/VHT40, M0 to M23, M0.1 to M9.3**

**Conducted Spurs, 5540 MHz, Non HT/VHT20, 6 to 54 Mbps****Conducted Spurs, 5540 MHz, HT/VHT20, M0 to M23, M0.1 to M9.3**

**Conducted Spurs, 5660 MHz, Non HT/VHT40, 6 to 54 Mbps****Conducted Spurs, 5660 MHz, HT/VHT40, M0 to M23, M0.1 to M9.3**

**Conducted Spurs, 5660 MHz, Non HT/VHT20, 6 to 54 Mbps****Conducted Spurs, 5660 MHz, HT/VHT20, M0 to M23, M0.1 to M9.3**



Conducted Bandedge

15.407: For transmitters operating in the 5.25-5.35 and 5.47-5.725 GHz band: all emissions outside of the 5.25-5.35 and 5.47-5.725 GHz bands shall not exceed an EIRP of -27dBm/MHz.

Connect the antenna port(s) to the spectrum analyzer input. Place the radio in continuous transmit mode. Configure the spectrum analyzer as shown below (be sure to enter all losses between the transmitter output and the spectrum analyzer).

Span:	30 MHz-40 GHz
Reference Level:	20 dBm
Attenuation:	10 dB
Sweep Time:	10 s
Resolution Bandwidth:	1 MHz
Video Bandwidth:	3 MHz
Detector:	Peak
Trace:	Single
Marker:	Peak

Record the marker waveform peak to spur difference



Frequency (MHz)	Mode	Data Rate (Mbps)	Correlated Antenna Gain (dBi)	Conducted Bandedge Level (dBm/MHz)	Total Bandedge Level (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
5500	Non HT/VHT20, 6 to 54 Mbps	3	5	-39.91	-30.14	-27	3.14
	HT/VHT20, M0 to M23, M0.1 to M9.3	3	5	-40.37	-30.60	-27	3.60
	Non HT/VHT40, 6 to 54 Mbps	3	5	-38.1	-28.33	-27	1.33
	HT/VHT40, M0 to M23, M0.1 to M9.3	1	5	-32.54	-27.54	-27	0.54
	Non HT/VHT80, 6 to 54 Mbps	3	5	-38.07	-28.30	-27	1.30
	HT/VHT80, M0 to M23, M0.1 to M9.3	2	5	-35.02	-27.01	-27	0.01
5700	Non HT/VHT20, 6 to 54 Mbps	2	8	-38.95	-27.94	-27	0.94
	HT/VHT20, M0 to M23, M0.1 to M9.3	1	5	-32.15	-27.15	-27	0.15

Conducted Bandedge Average, 5500 MHz, Non HT/VHT20, 6 to 54 Mbps**Conducted Bandedge Average, 5500 MHz, HT/VHT20, M0 to M23, M0.1 to M9.3**

**Conducted Bandedge Average, 5500 MHz, Non HT/VHT40, 6 to 54 Mbps****Conducted Bandedge Average, 5500 MHz, HT/VHT40, M0 to M23, M0.1 to M9.3**

Conducted Bandedge Average, 5500 MHz, Non HT/VHT80, 6 to 54 Mbps**Conducted Bandedge Average, 5500 MHz, HT/VHT80, M0 to M23, M0.1 to M9.3**

**Conducted Bandedge Average, 5500 MHz, Non HT/VHT20, 6 to 54 Mbps****Conducted Bandedge Average, 5500 MHz, HT/VHT20, M0 to M23, M0.1 to M9.3**



20dB Bandwidth

Connect the antenna port(s) to the spectrum analyzer input. Using the spectrum analyzer Channel Bandwidth mode, configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).

Center Frequency:	Frequency from table below
Span:	2 x Nominal Bandwidth (e.g. 40MHz for a 20MHz channel)
Reference Level:	20 dBm
Attenuation:	10 dB
Sweep Time:	5 s
Resolution Bandwidth:	1%-3% of 20 dB Bandwidth
Video Bandwidth:	≥Resolution Bandwidth
X dB Bandwidth:	20 dB
Detector:	Peak
Trace:	Single

Place the radio in continuous transmit mode. View the transmitter waveform on the spectrum analyzer, and record the pertinent measurements:



Frequency (MHz)	Mode	Data Rate (Mbps)	20dB BW (MHz)	Limit (kHz)	Margin (MHz)
5540/5560	Non HT/VHT40, 6 to 54 Mbps	6	5569	5600	31
	HT/VHT40, M0 to M23, M0.1 to M9.3	M0.	5570	5600	30
5500/5520 5540/5560	Non HT/VHT80, 6 to 54 Mbps	6	5569	5600	31
	HT/VHT80, M0 to M23, M0.1 to M9.3	M0x1	5569	5600	31
5580	Non HT/VHT20, 6 to 54 Mbps	6	5589	5600	11
	HT/VHT20, M0 to M23, M0.1 to M9.3	M0.	5590	5600	10
5660/5680	Non HT/VHT40, 6 to 54 Mbps	6	5651	5650	1
	HT/VHT40, M0 to M23, M0.1 to M9.3	M0.	5651	5650	1