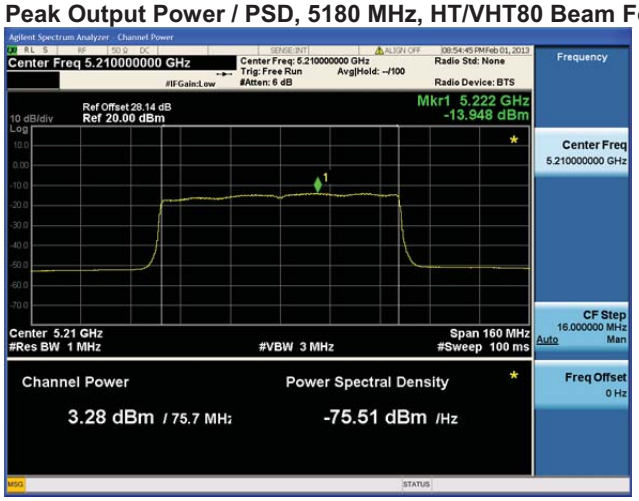
Peak Output Power / PSD, 5180 MHz, HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1

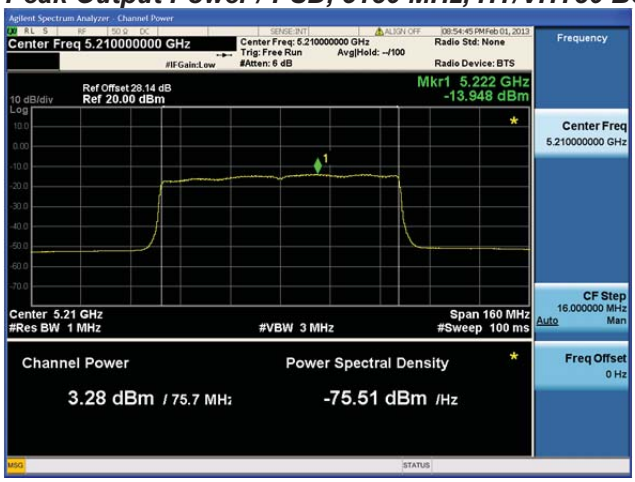


Antenna A

Antenna B

Antenna C

Peak Output Power / PSD, 5180 MHz, HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2

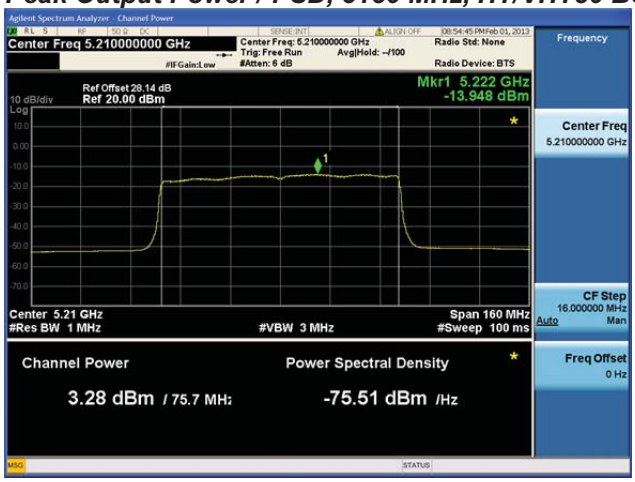


Antenna A

Antenna B

Antenna C

Peak Output Power / PSD, 5180 MHz, HT/VHT80 Beam Forming, M16 to M23, M0.3 to M9.3

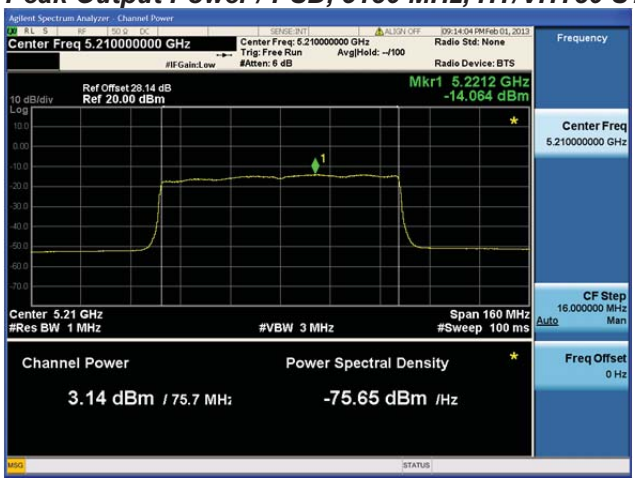


Antenna A

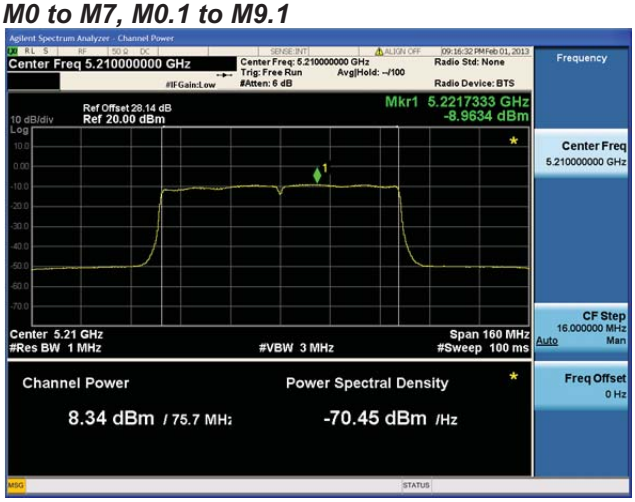
Antenna B

Antenna C

Peak Output Power / PSD, 5180 MHz, HT/VHT80 STBC, M0 to M7, M0.1 to M9.1

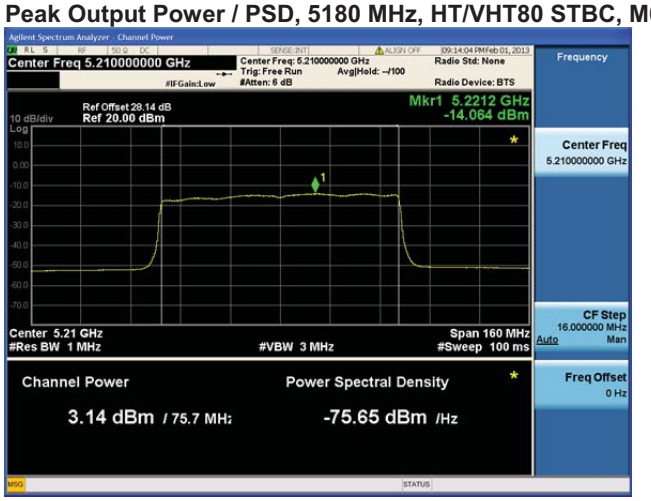


Antenna A

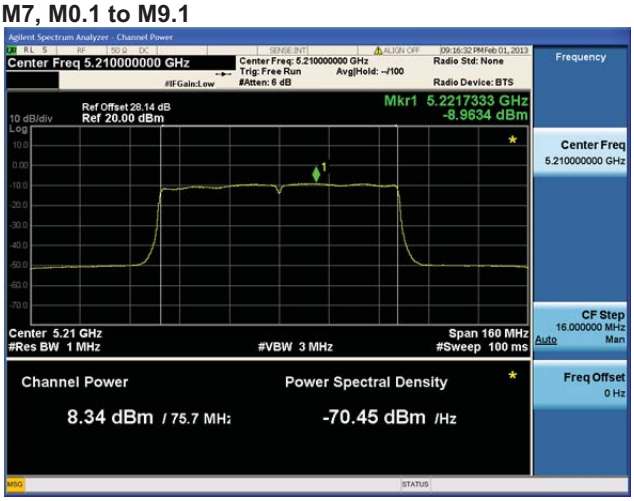


Antenna B

Peak Output Power / PSD, 5180 MHz, HT/VHT80 STBC, M0 to M7, M0.1 to M9.1



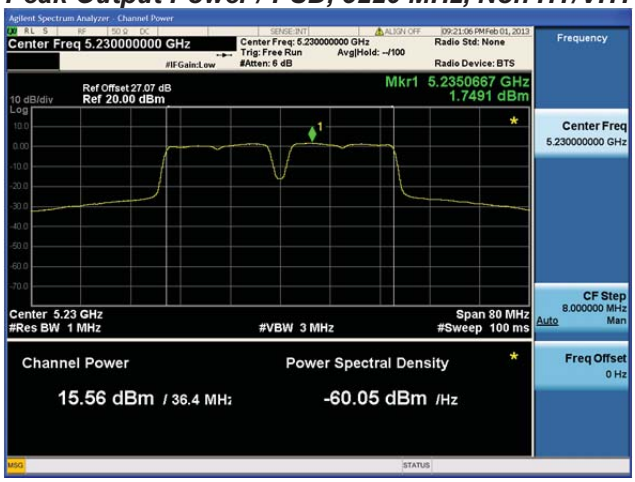
Antenna A



Antenna B

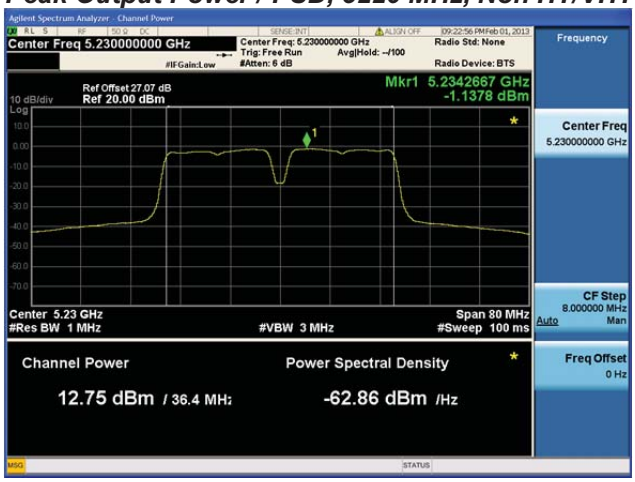
Antenna C

Peak Output Power / PSD, 5220 MHz, Non HT/VHT40, 6 to 54 Mbps

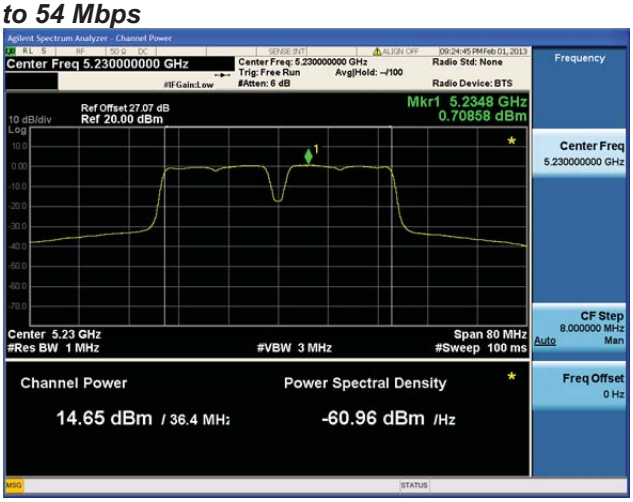


Antenna A

Peak Output Power / PSD, 5220 MHz, Non HT/VHT40, 6 to 54 Mbps

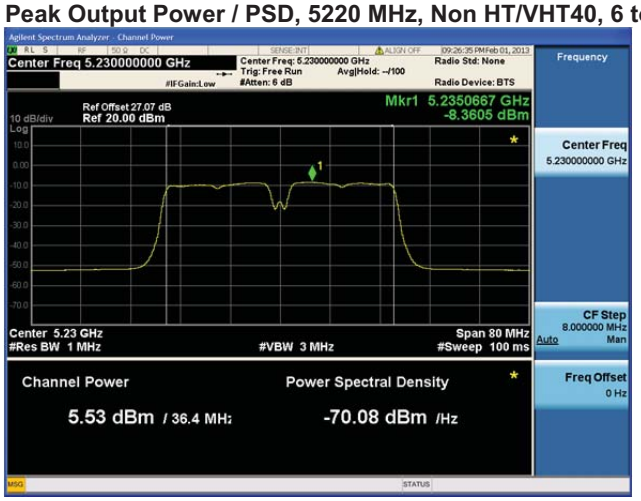


Antenna A



Antenna B

Peak Output Power / PSD, 5220 MHz, Non HT/VHT40, 6 to 54 Mbps



Antenna A

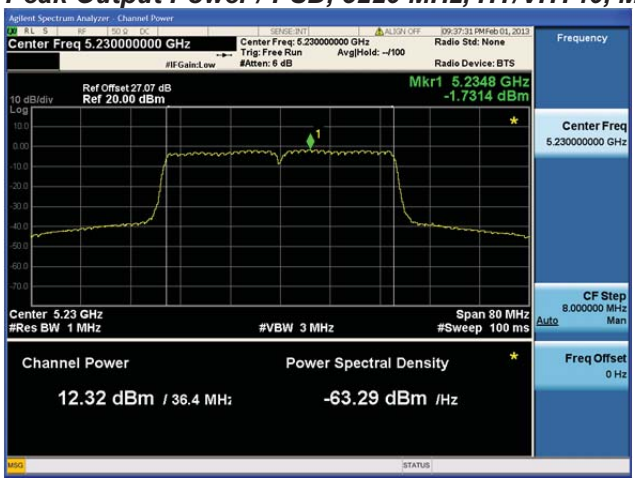
Antenna B

Antenna C

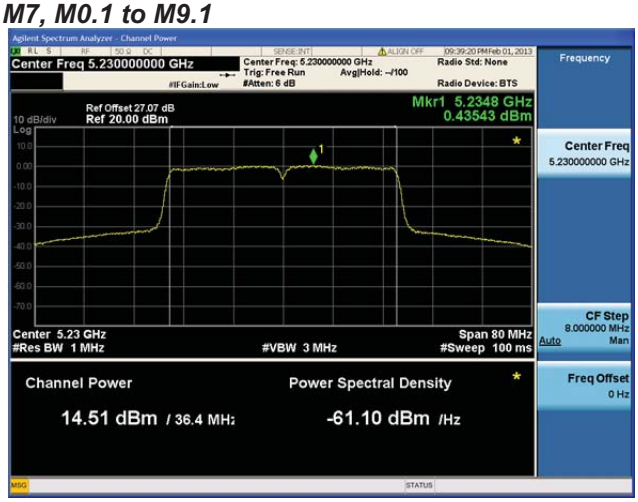
Peak Output Power / PSD, 5220 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1

Antenna A

Peak Output Power / PSD, 5220 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1

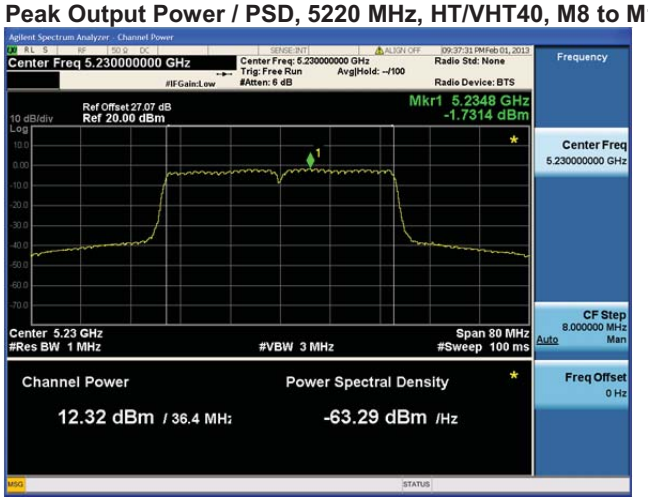


Antenna A

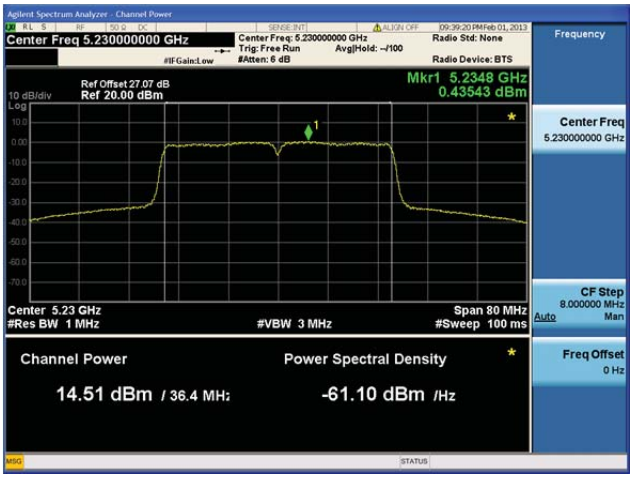


Antenna B

Peak Output Power / PSD, 5220 MHz, HT/VHT40, M8 to M15, M0.2 to M9.2

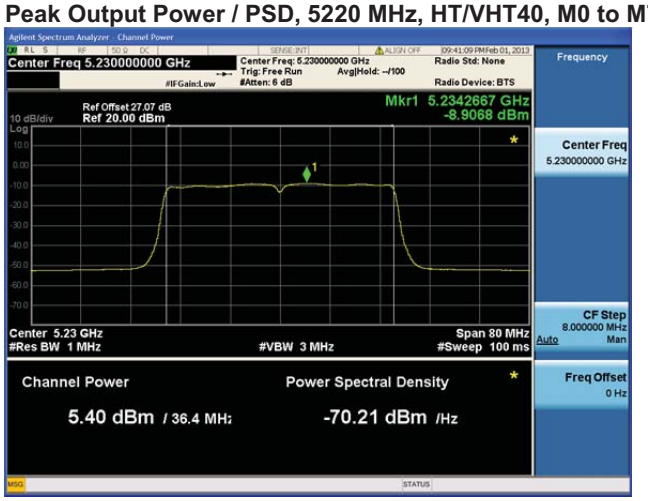


Antenna A



Antenna B

Peak Output Power / PSD, 5220 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1

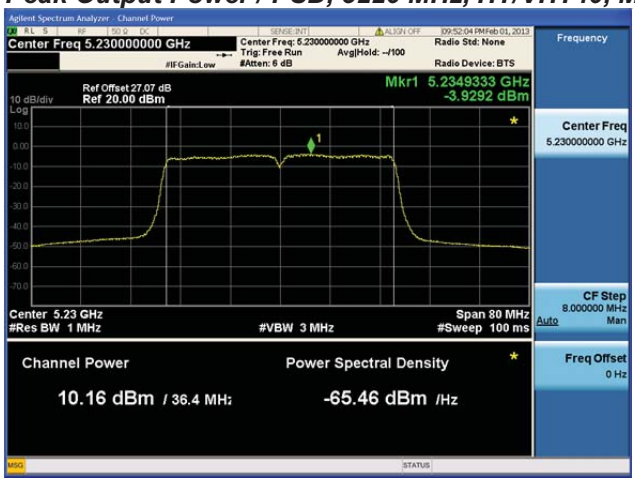


Antenna A

Antenna B

Antenna C

Peak Output Power / PSD, 5220 MHz, HT/VHT40, M8 to M15, M0.2 to M9.2

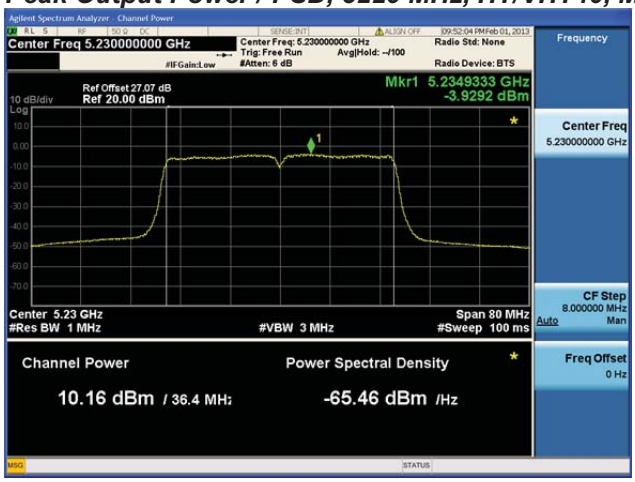


Antenna A

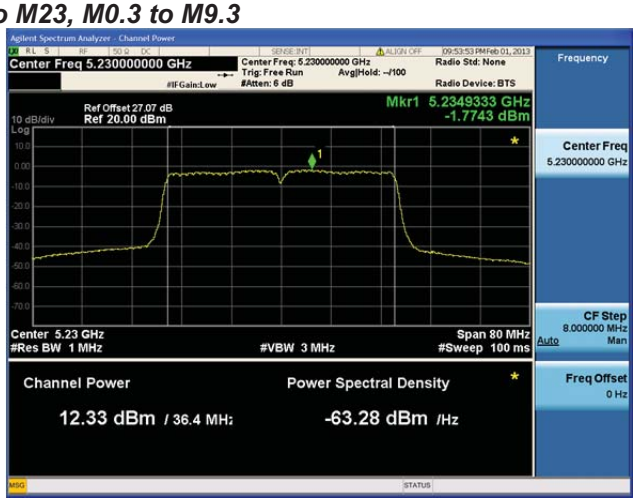
Antenna B

Antenna C

Peak Output Power / PSD, 5220 MHz, HT/VHT40, M16 to M23, M0.3 to M9.3



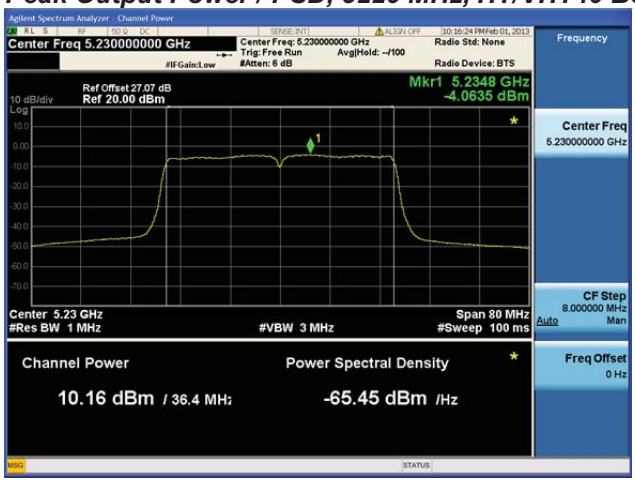
Antenna A



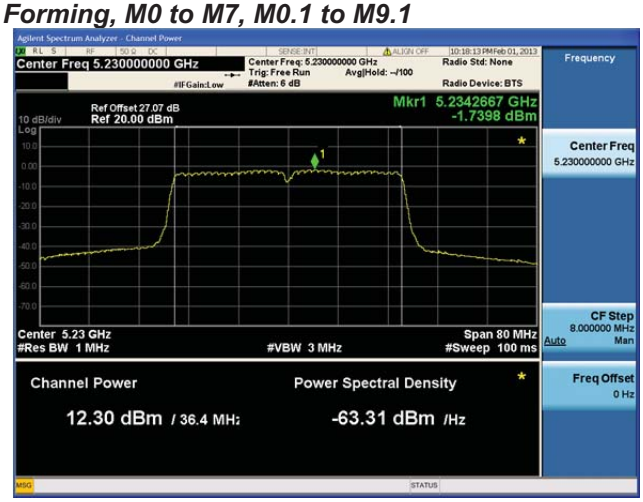
Antenna B

Antenna C

Peak Output Power / PSD, 5220 MHz, HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1

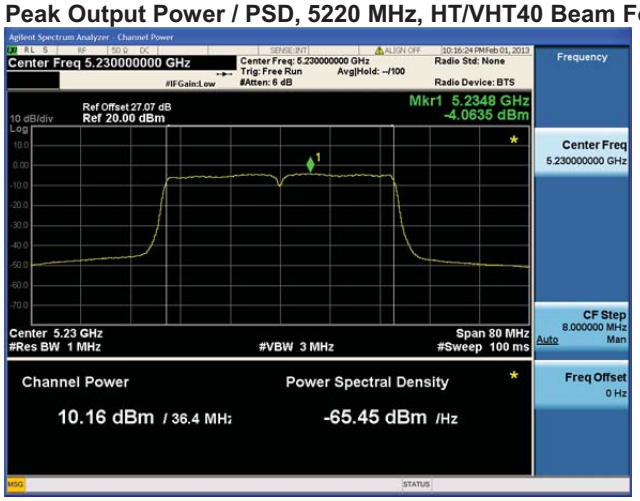


Antenna A



Antenna B

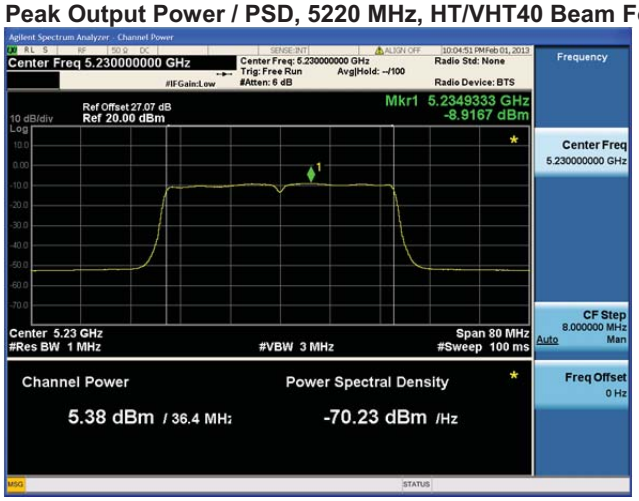
Peak Output Power / PSD, 5220 MHz, HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2



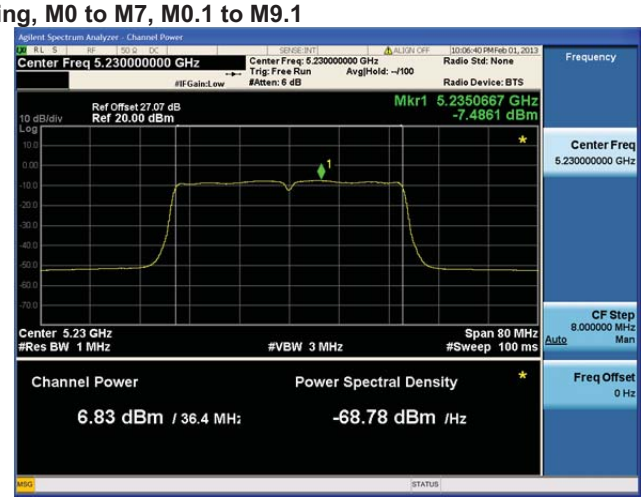
Antenna A

Antenna B

Peak Output Power / PSD, 5220 MHz, HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1



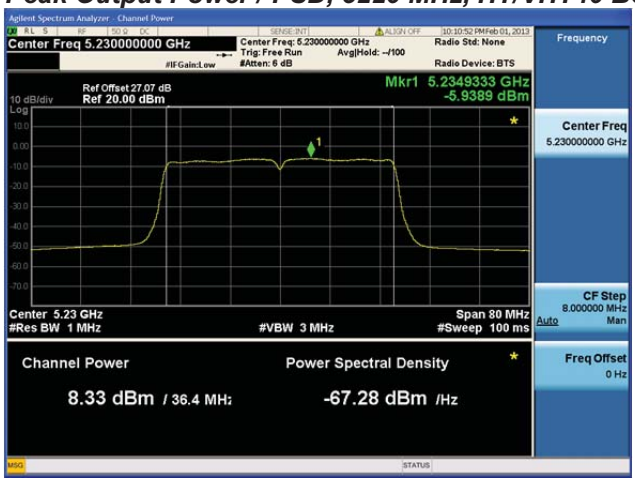
Antenna A



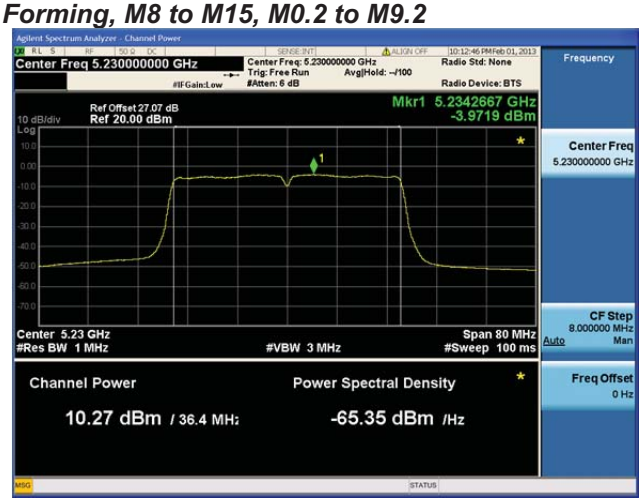
Antenna B

Antenna C

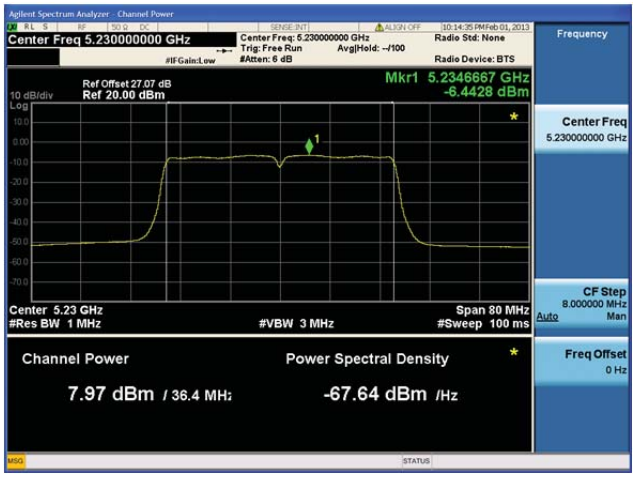
Peak Output Power / PSD, 5220 MHz, HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2



Antenna A

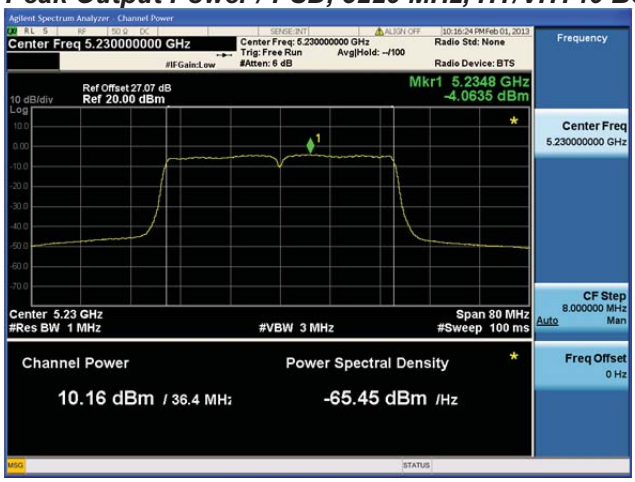


Antenna B

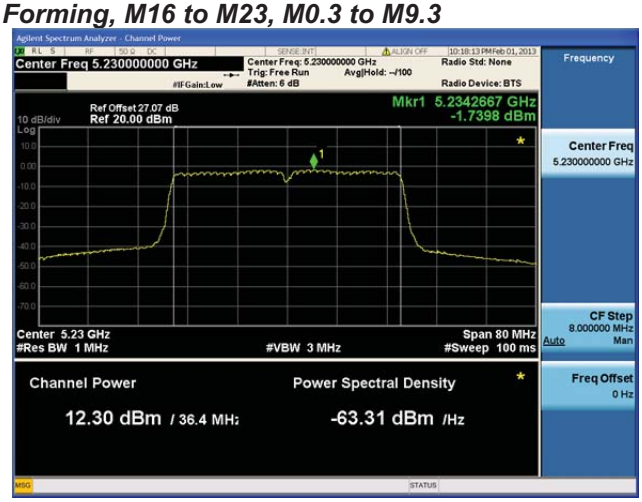


Antenna C

Peak Output Power / PSD, 5220 MHz, HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3



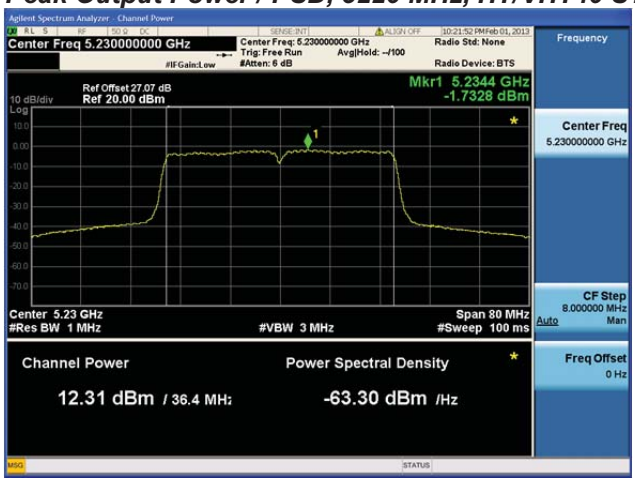
Antenna A



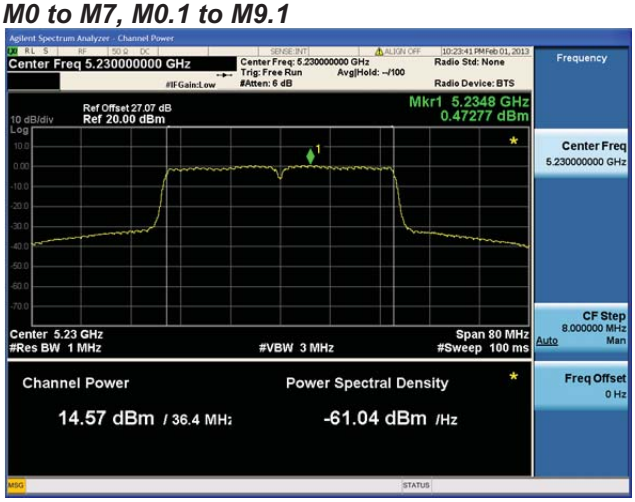
Antenna B

Antenna C

Peak Output Power / PSD, 5220 MHz, HT/VHT40 STBC, M0 to M7, M0.1 to M9.1

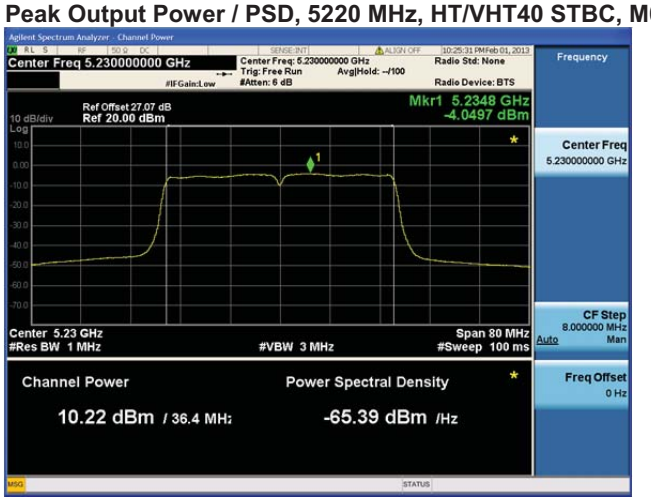


Antenna A

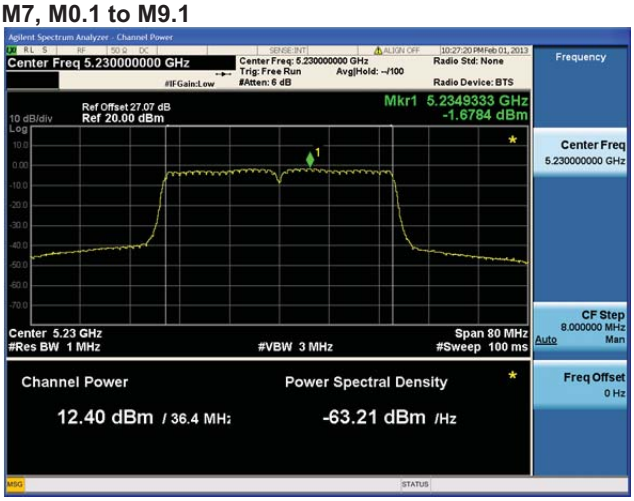


Antenna B

Peak Output Power / PSD, 5220 MHz, HT/VHT40 STBC, M0 to M7, M0.1 to M9.1



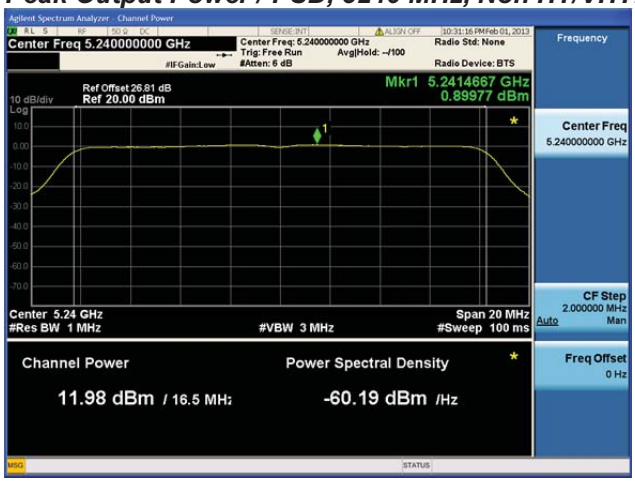
Antenna A



Antenna B

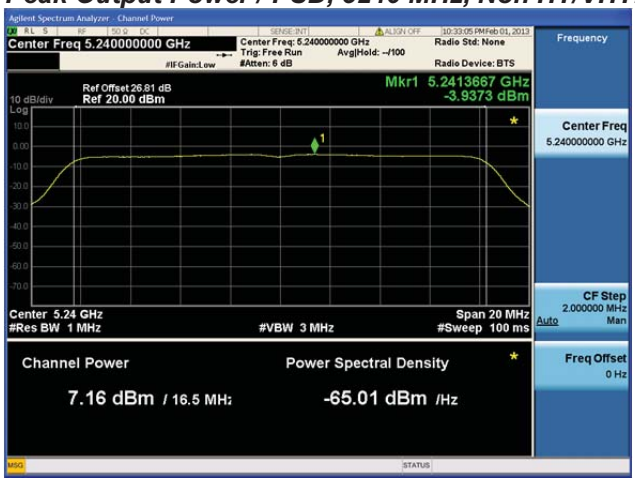
Antenna C

Peak Output Power / PSD, 5240 MHz, Non HT/VHT20, 6 to 54 Mbps

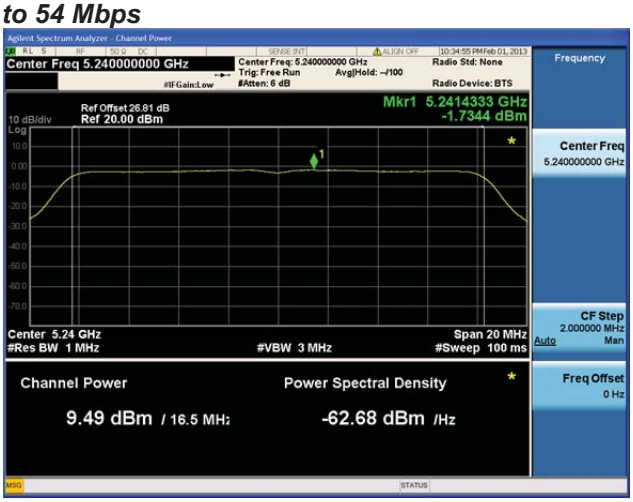


Antenna A

Peak Output Power / PSD, 5240 MHz, Non HT/VHT20, 6 to 54 Mbps

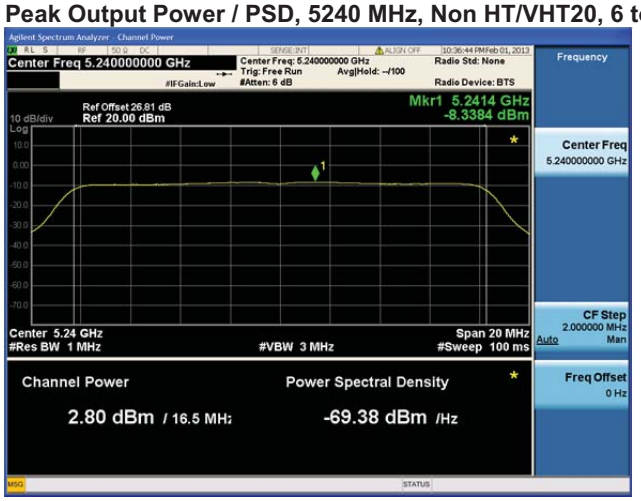


Antenna A



Antenna B

Peak Output Power / PSD, 5240 MHz, Non HT/VHT20, 6 to 54 Mbps

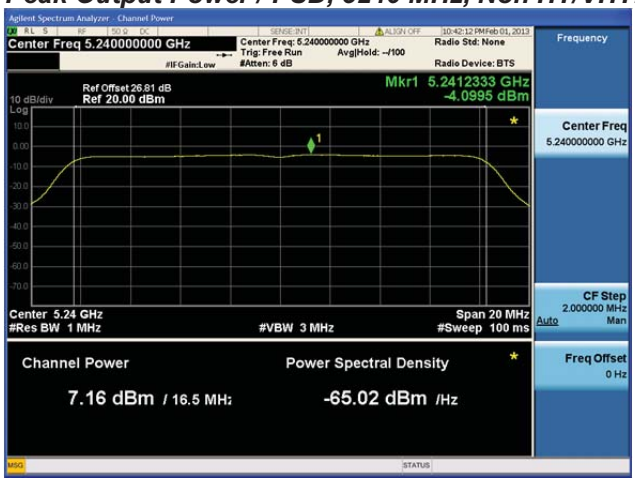


Antenna A

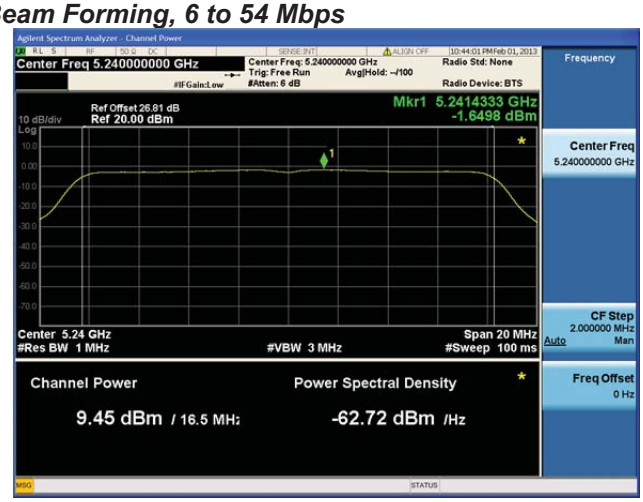
Antenna B

Antenna C

Peak Output Power / PSD, 5240 MHz, Non HT/VHT20 Beam Forming, 6 to 54 Mbps

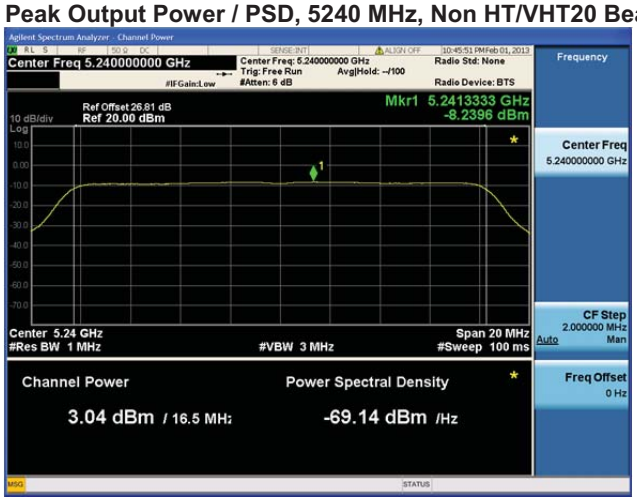


Antenna A

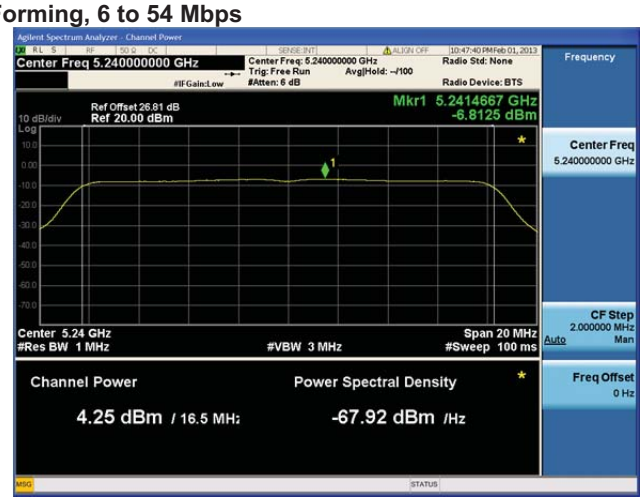


Antenna B

Peak Output Power / PSD, 5240 MHz, Non HT/VHT20 Beam Forming, 6 to 54 Mbps



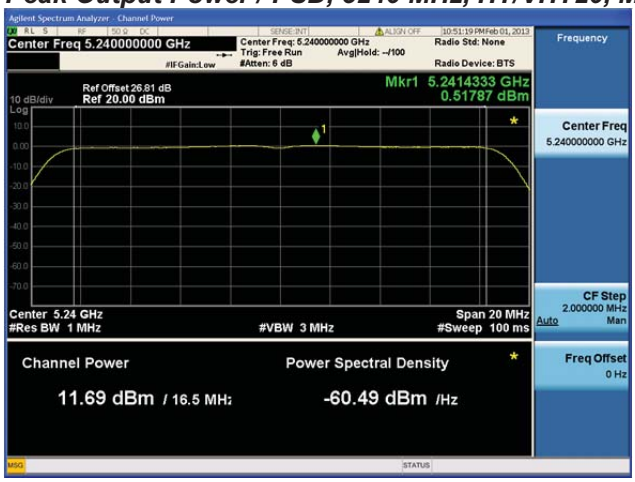
Antenna A



Antenna B

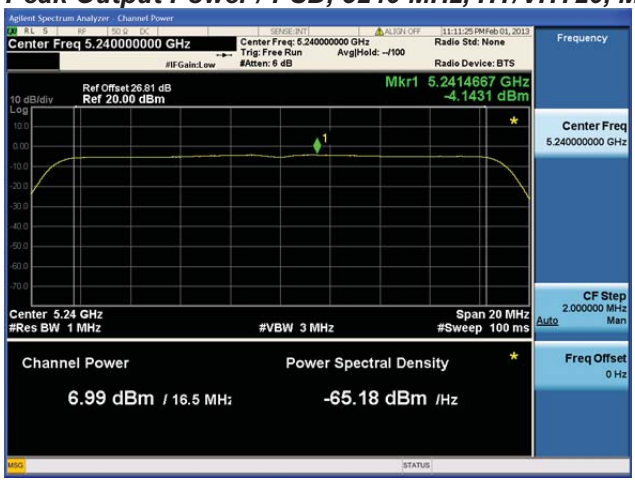
Antenna C

Peak Output Power / PSD, 5240 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1

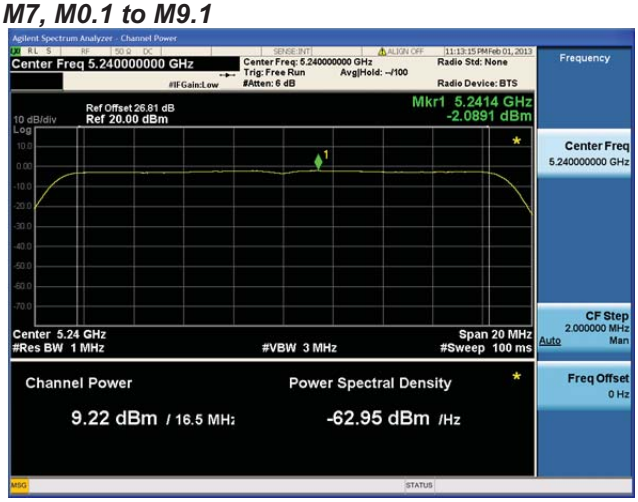


Antenna A

Peak Output Power / PSD, 5240 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1

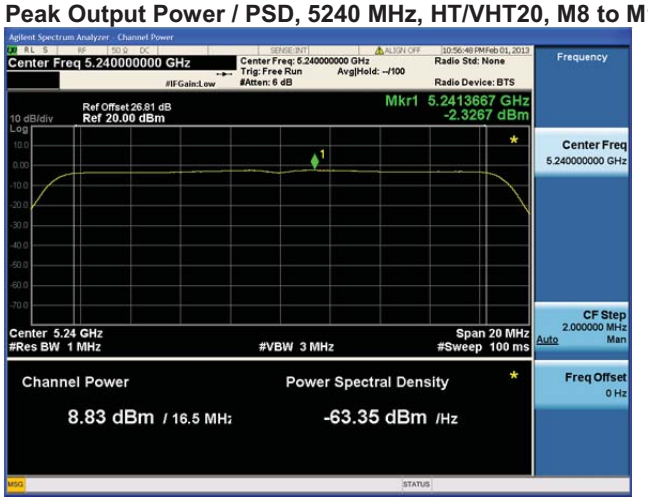


Antenna A

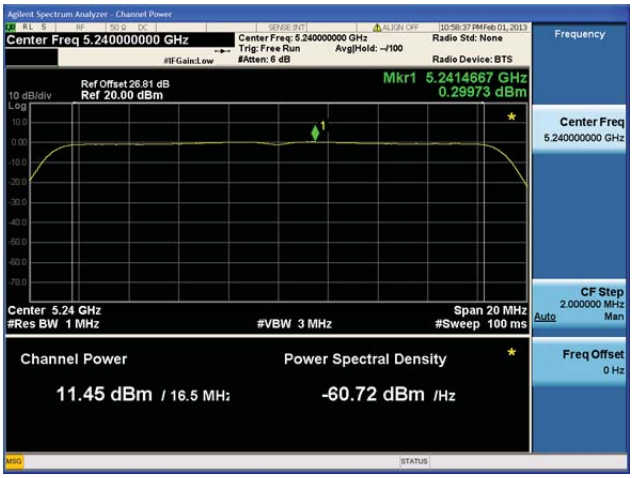


Antenna B

Peak Output Power / PSD, 5240 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2

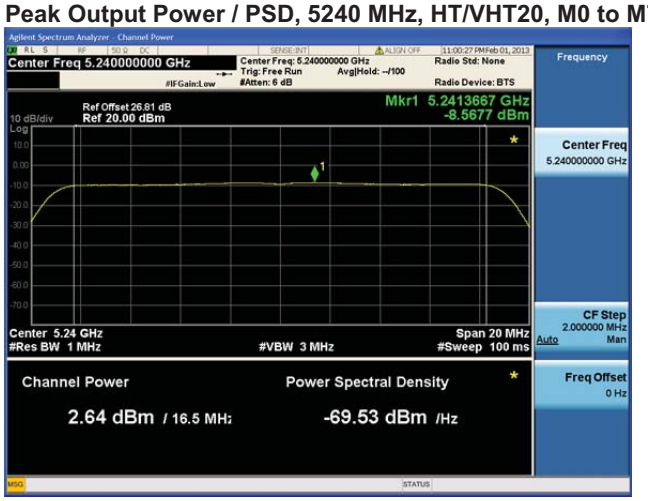


Antenna A



Antenna B

Peak Output Power / PSD, 5240 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1

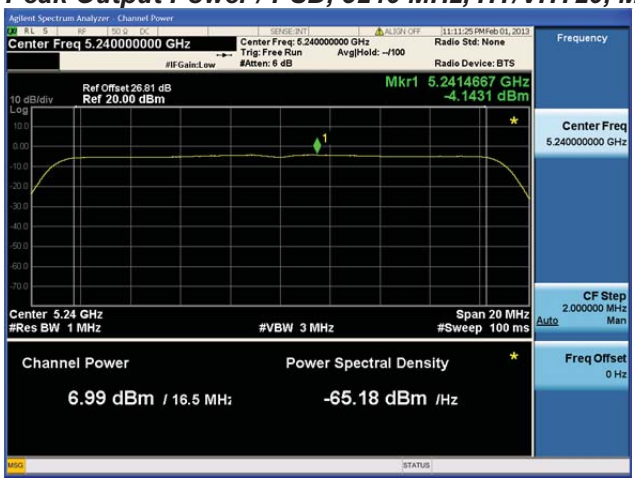


Antenna A

Antenna B

Antenna C

Peak Output Power / PSD, 5240 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2

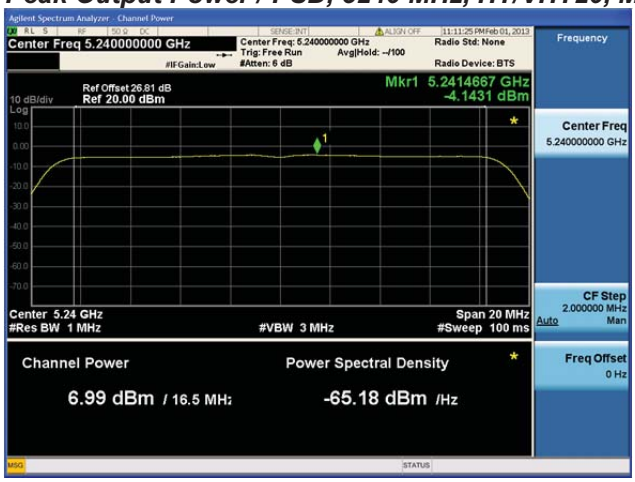


Antenna A

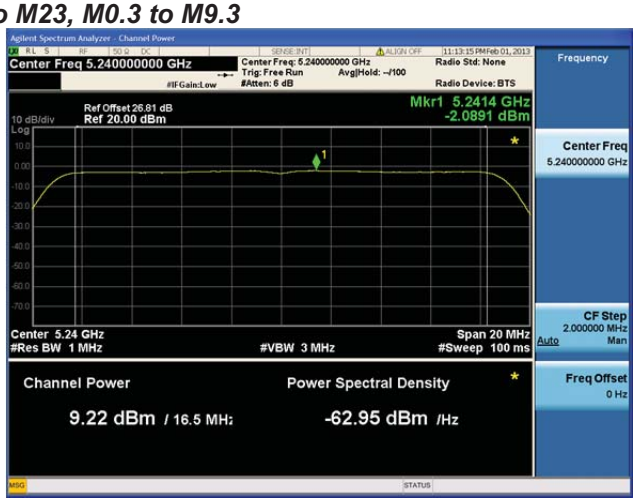
Antenna B

Antenna C

Peak Output Power / PSD, 5240 MHz, HT/VHT20, M16 to M23, M0.3 to M9.3



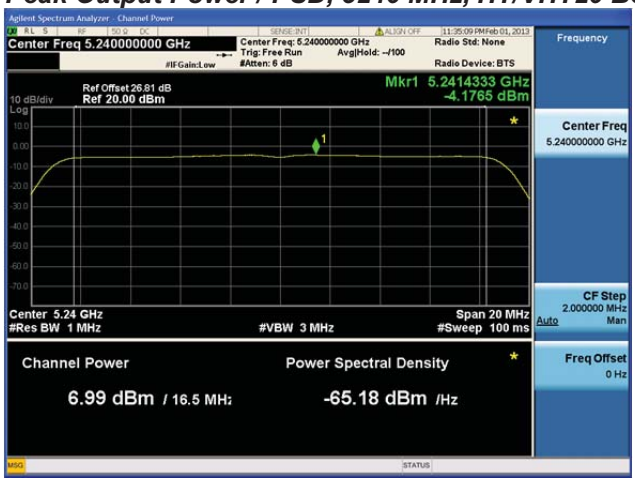
Antenna A



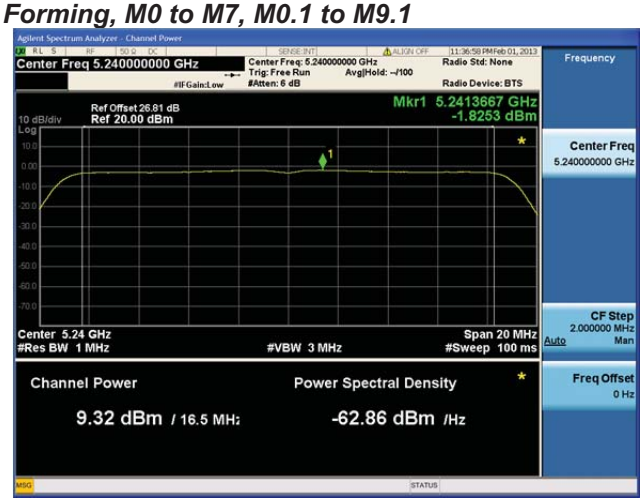
Antenna B

Antenna C

Peak Output Power / PSD, 5240 MHz, HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1

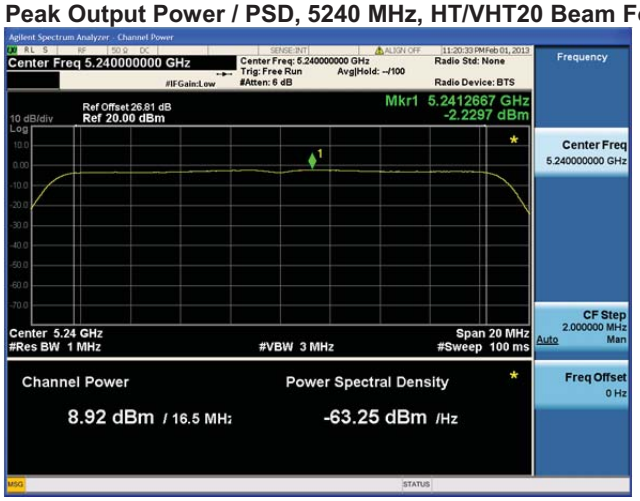


Antenna A



Antenna B

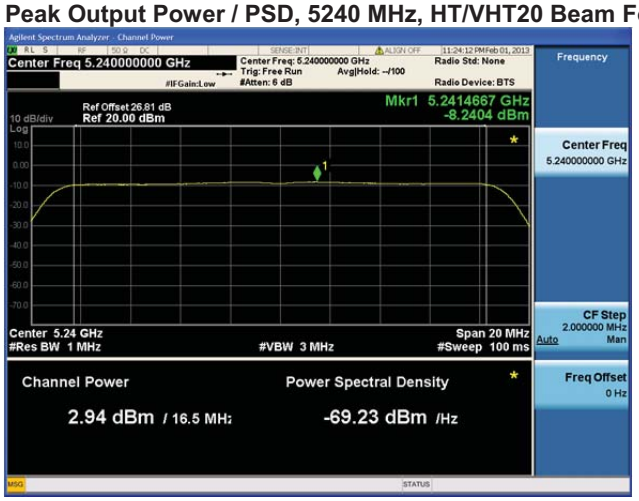
Peak Output Power / PSD, 5240 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2



Antenna A

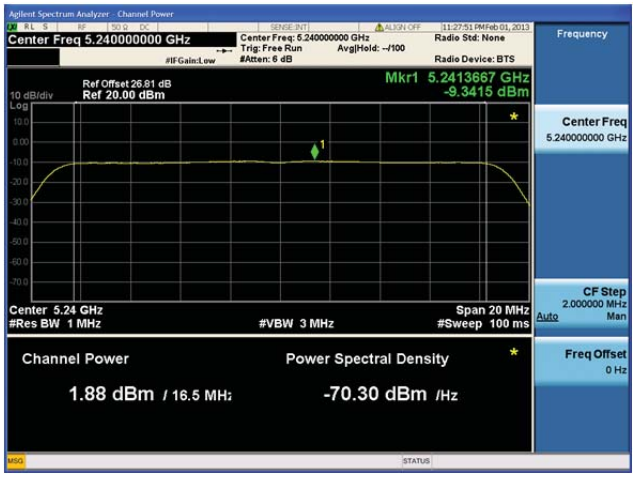
Antenna B

Peak Output Power / PSD, 5240 MHz, HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1



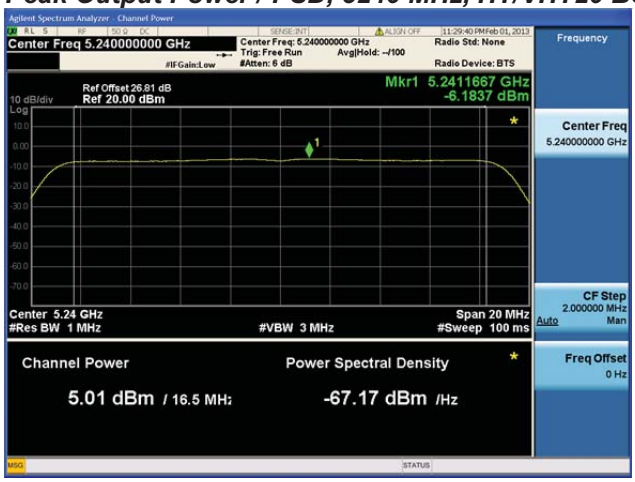
Antenna A

Antenna B

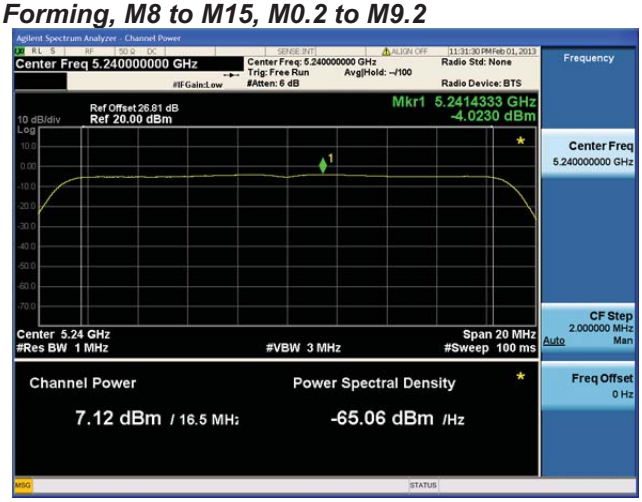


Antenna C

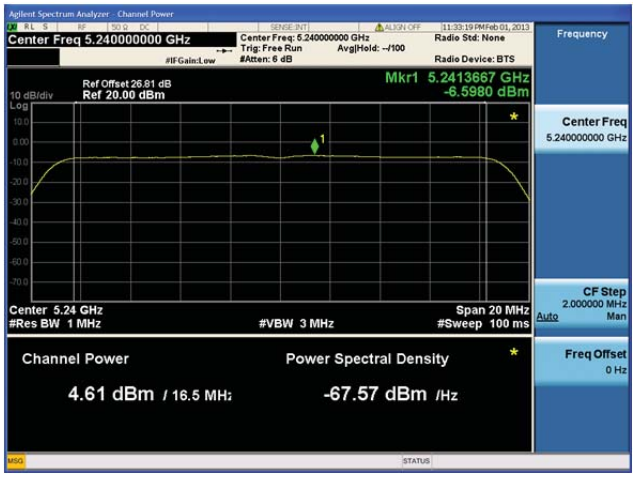
Peak Output Power / PSD, 5240 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2



Antenna A

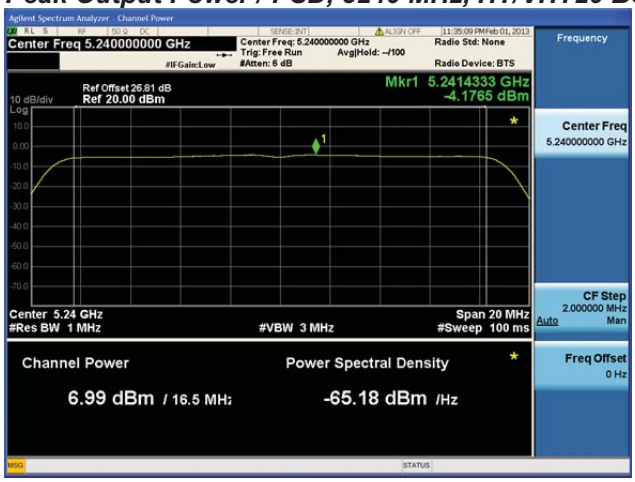


Antenna B

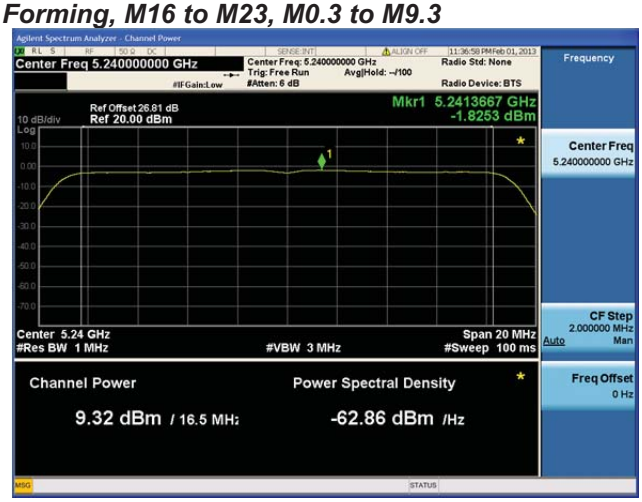


Antenna C

Peak Output Power / PSD, 5240 MHz, HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3



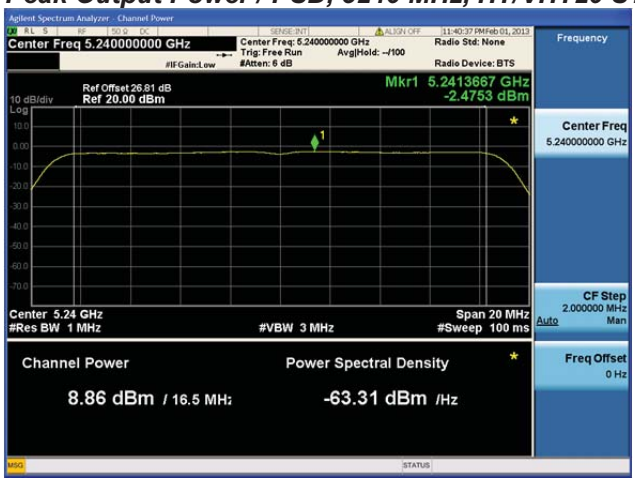
Antenna A



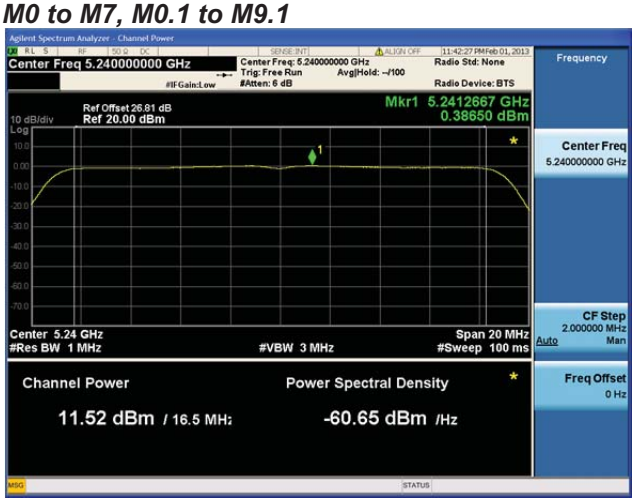
Antenna B

Antenna C

Peak Output Power / PSD, 5240 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1

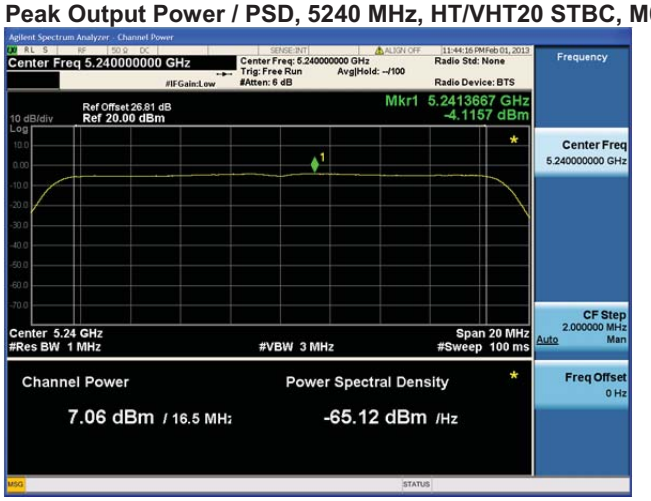


Antenna A

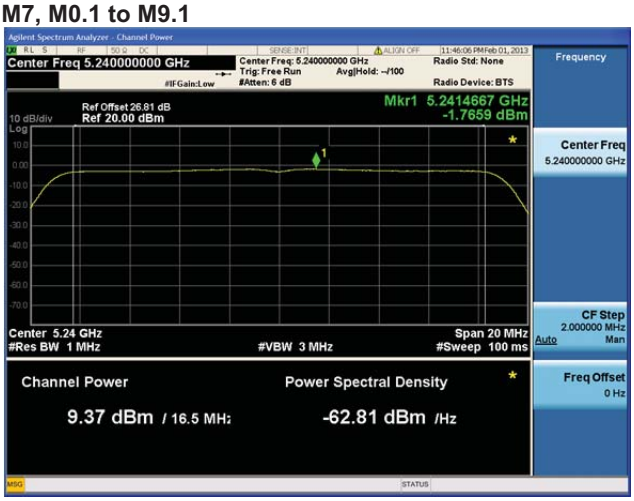


Antenna B

Peak Output Power / PSD, 5240 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 = 10 s
- 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

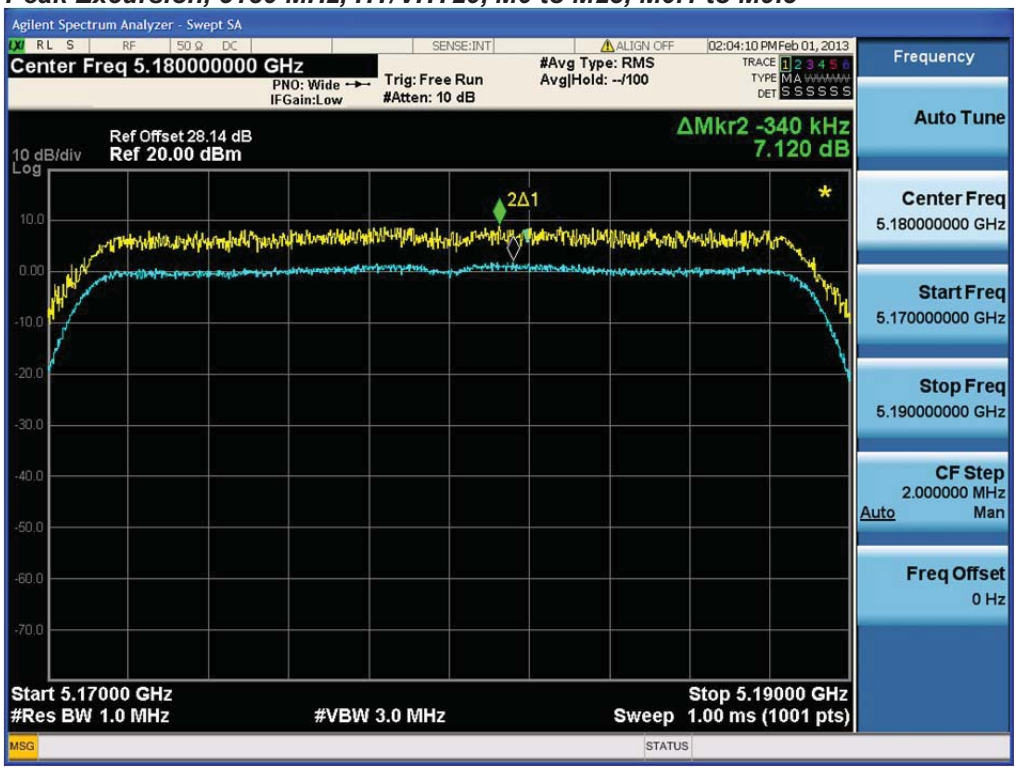
- Trace 1 & Peak search
- Marker Delta
- Trace 2 & Peak search

Record the difference between the Peak and Average Markers

Frequency (MHz)	Mode	Data Rate (Mbps)	Peak Excursion (dB)	Limit (dBm/MHz)	Margin (dB)
5180	Non HT/VHT20, 6 to 54 Mbps	6	7	13	6
	HT/VHT20, M0 to M23, M0.1 to M9.3	M0.	7.1	13	5.9
	Non HT/VHT40, 6 to 54 Mbps	6	7.4	13	5.6
	HT/VHT40, M0 to M23, M0.1 to M9.3	M0.	7.2	13	5.8
	Non HT/VHT80, 6 to 54 Mbps	6	7.1	13	5.9
	HT/VHT80, M0 to M23, M0.1 to M9.3	M0x1	7.6	13	5.4
5220	Non HT/VHT40, 6 to 54 Mbps	6	7.3	13	5.7
	HT/VHT40, M0 to M23, M0.1 to M9.3	M0.	7.1	13	5.9
5240	Non HT/VHT20, 6 to 54 Mbps	6	7.3	13	5.7
	HT/VHT20, M0 to M23, M0.1 to M9.3	M0.	7.3	13	5.7

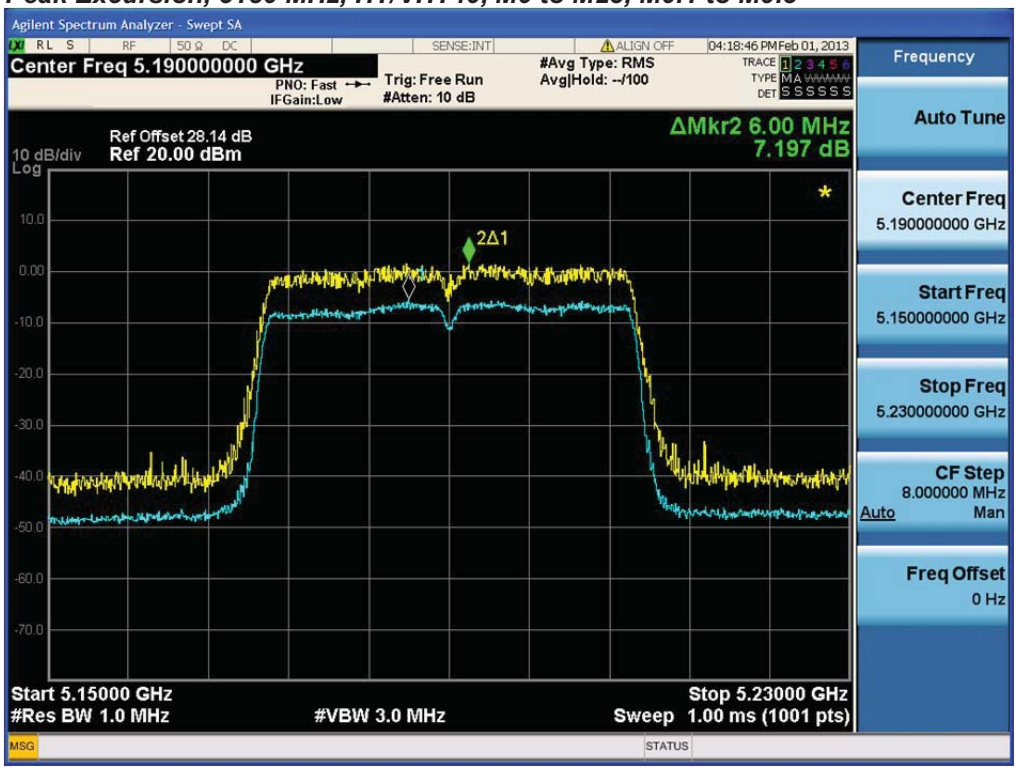
Peak Excursion, 5180 MHz, Non HT/VHT20, 6 to 54 Mbps

Peak Excursion, 5180 MHz, HT/VHT20, M0 to M23, M0.1 to M9.3

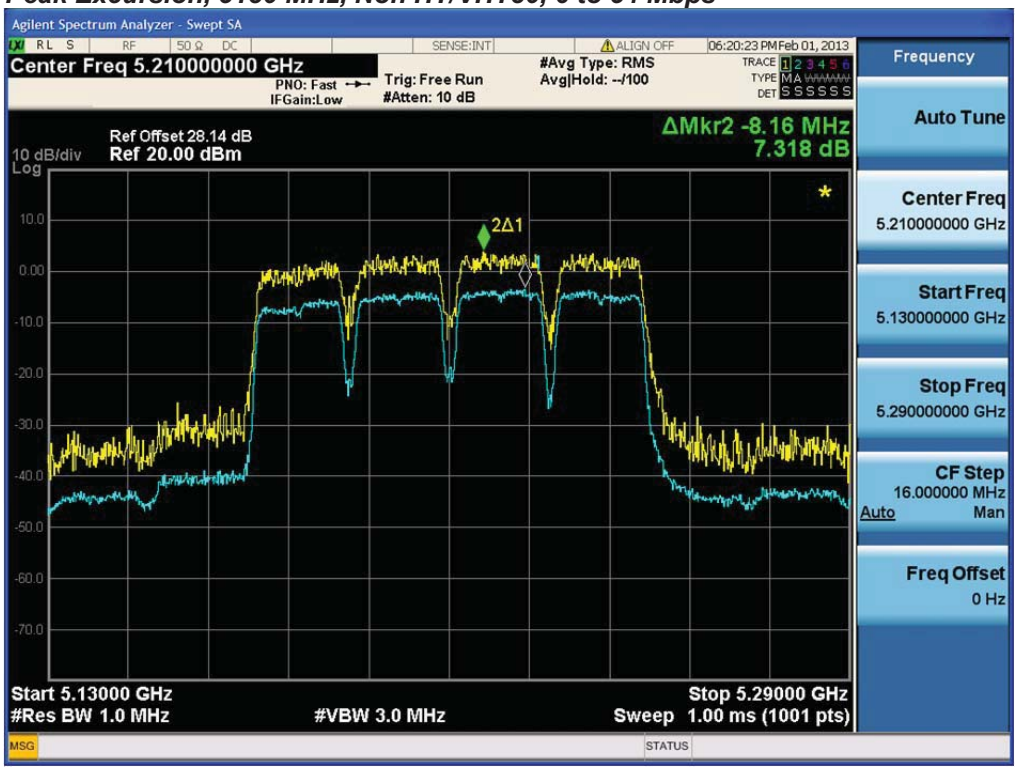


Peak Excursion, 5180 MHz, Non HT/VHT40, 6 to 54 Mbps

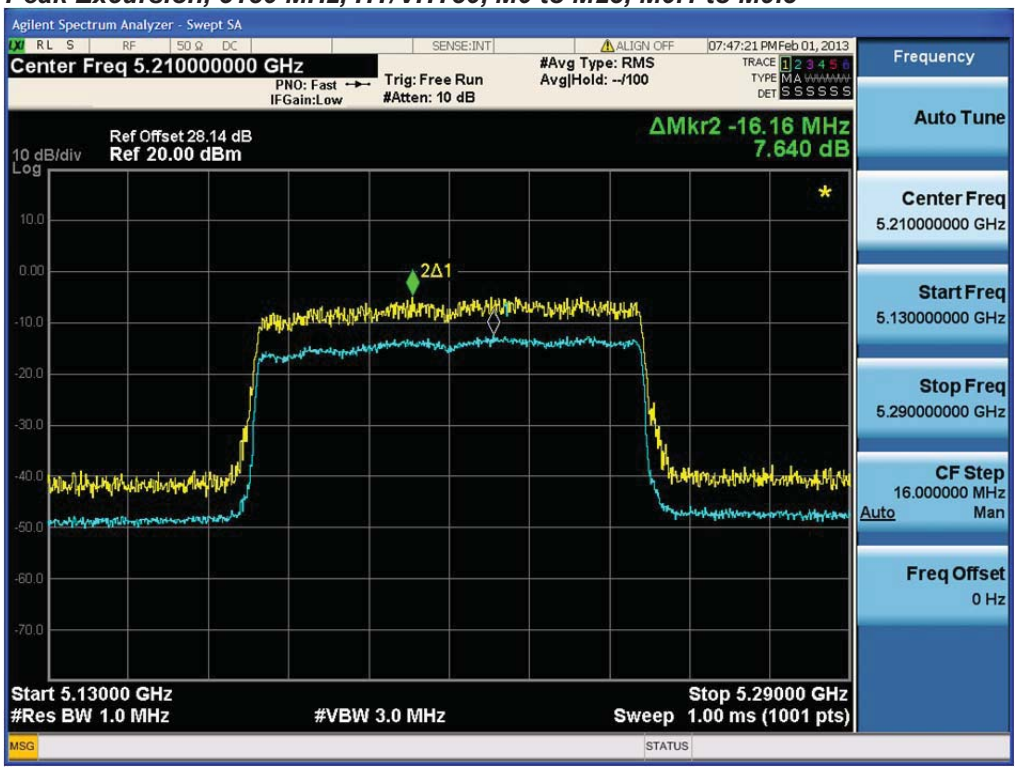
Peak Excursion, 5180 MHz, HT/VHT40, M0 to M23, M0.1 to M9.3



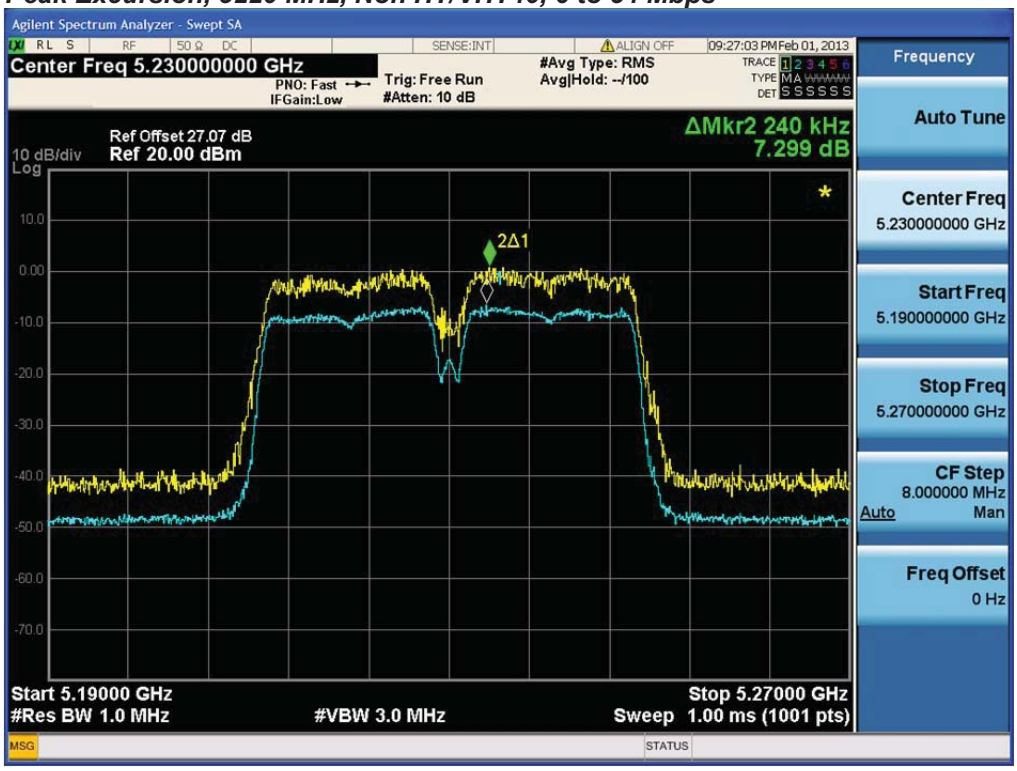
Peak Excursion, 5180 MHz, Non HT/VHT80, 6 to 54 Mbps



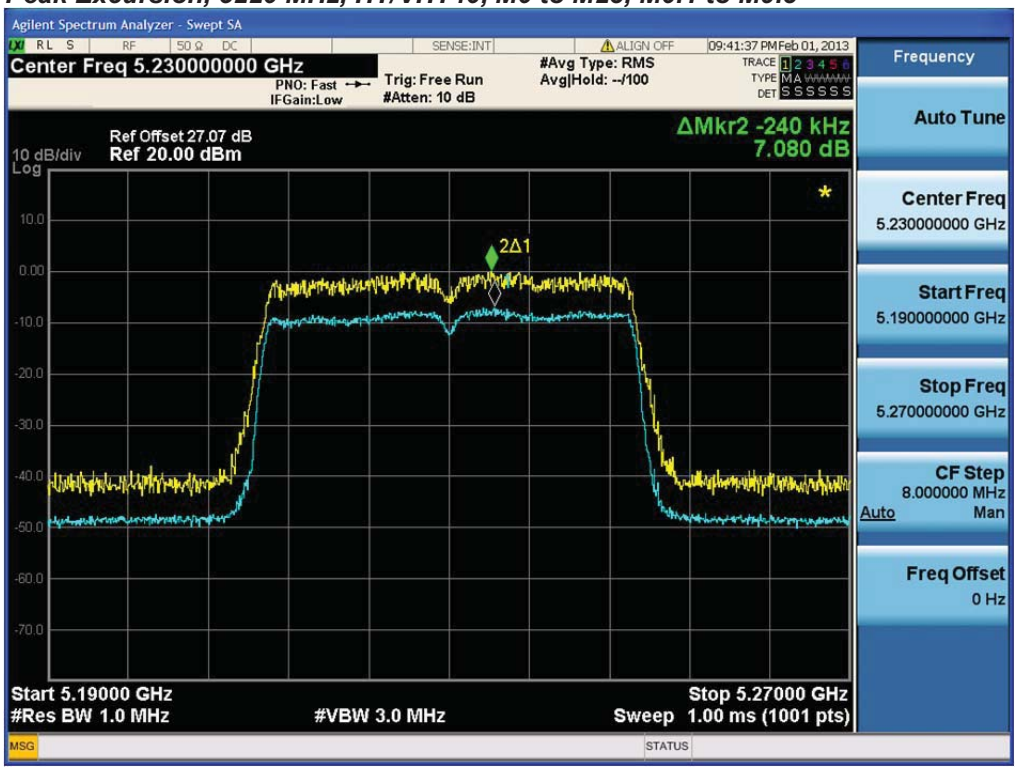
Peak Excursion, 5180 MHz, HT/VHT80, M0 to M23, M0.1 to M9.3



Peak Excursion, 5220 MHz, Non HT/VHT40, 6 to 54 Mbps

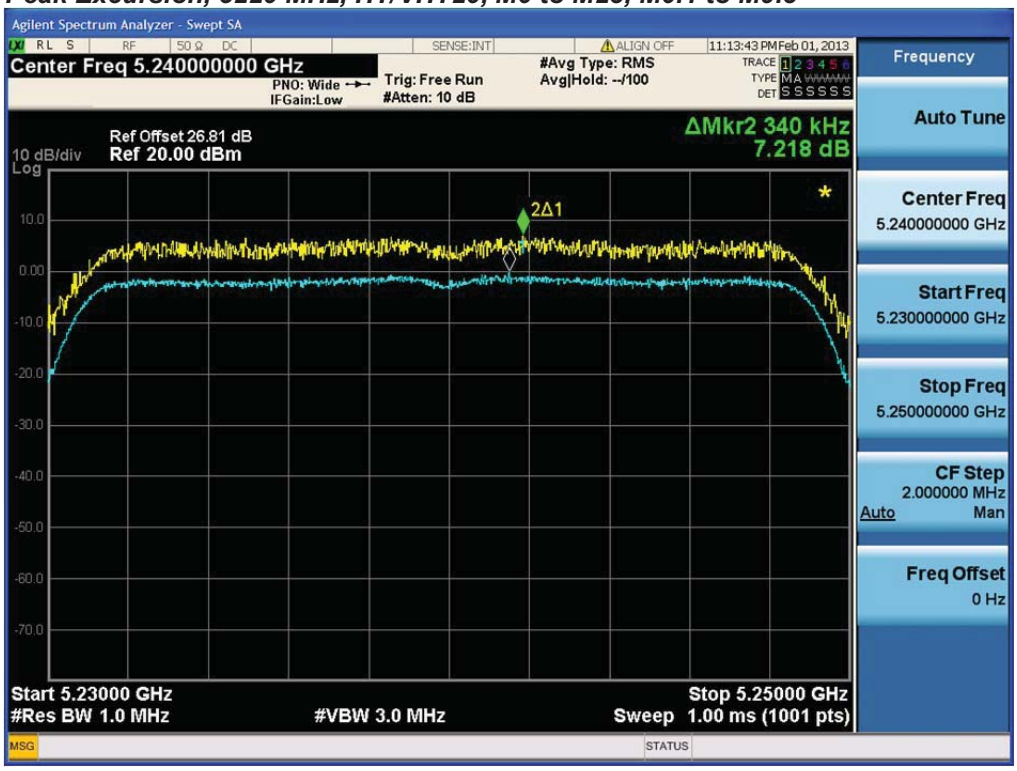


Peak Excursion, 5220 MHz, HT/VHT40, M0 to M23, M0.1 to M9.3



Peak Excursion, 5220 MHz, Non HT/VHT20, 6 to 54 Mbps

Peak Excursion, 5220 MHz, HT/VHT20, M0 to M23, M0.1 to M9.3



Conducted Spurious Emissions

15.407: 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 -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)
5180	Non HT/VHT20, 6 to 54 Mbps	2	10	-45.4	-32.59	-27	5.59
	HT/VHT20, M0 to M23, M0.1 to M9.3	3	5	-45.4	-35.63	-27	8.63
	Non HT/VHT40, 6 to 54 Mbps	1	5	-45.4	-40.40	-27	13.40
	HT/VHT40, M0 to M23, M0.1 to M9.3	2	8	-45.2	-34.19	-27	7.19
	Non HT/VHT80, 6 to 54 Mbps	1	5	-45.3	-40.30	-27	13.30
	HT/VHT80, M0 to M23, M0.1 to M9.3	2	8	-45.7	-34.69	-27	7.69
5220	Non HT/VHT40, 6 to 54 Mbps	1	5	-47.1	-42.10	-27	15.10
	HT/VHT40, M0 to M23, M0.1 to M9.3	3	5	-47.4	-37.63	-27	10.63
5240	Non HT/VHT20, 6 to 54 Mbps	2	10	-47.5	-34.69	-27	7.69
	HT/VHT20, M0 to M23, M0.1 to M9.3	3	5	-46.7	-36.93	-27	9.93

Conducted Spurs, 5180 MHz, Non HT/VHT20, 6 to 54 Mbps

Conducted Spurs, 5180 MHz, HT/VHT20, M0 to M23, M0.1 to M9.3

Conducted Spurs, 5180 MHz, Non HT/VHT40, 6 to 54 Mbps

Conducted Spurs, 5180 MHz, HT/VHT40, M0 to M23, M0.1 to M9.3