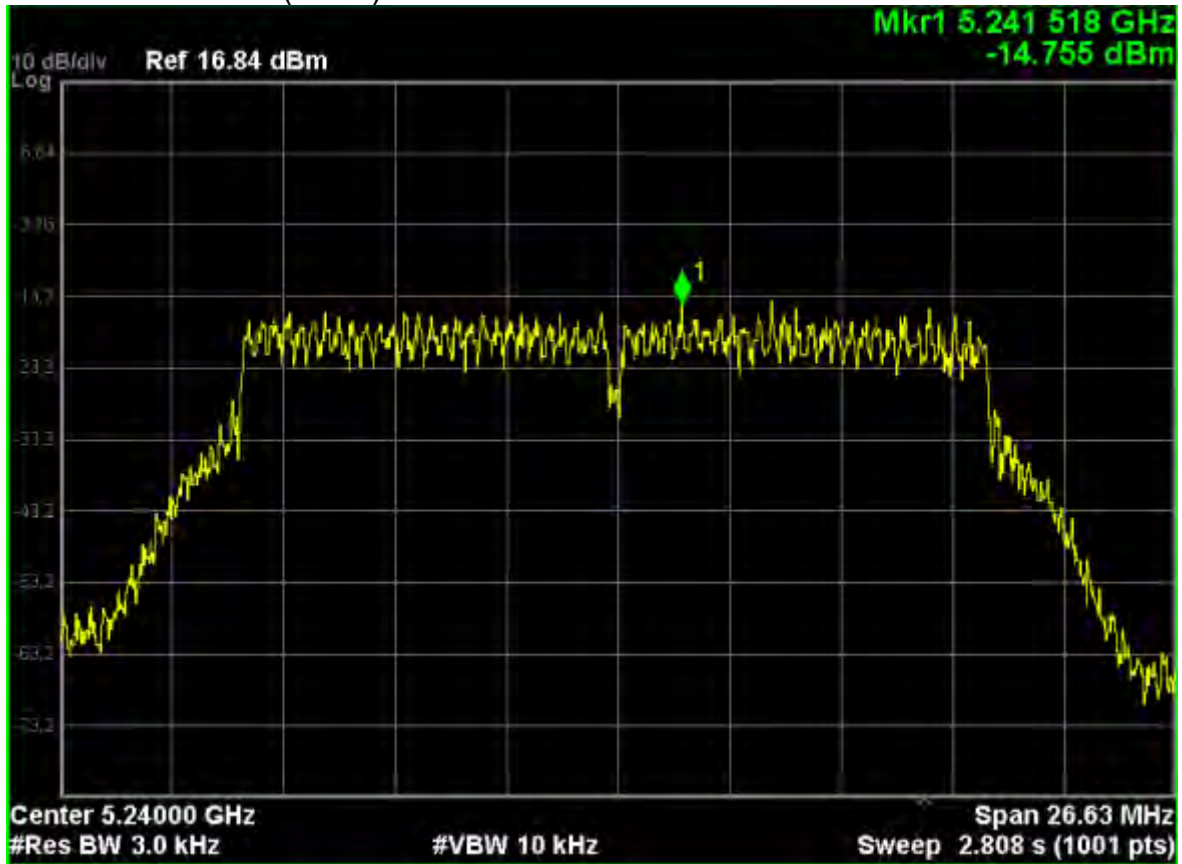


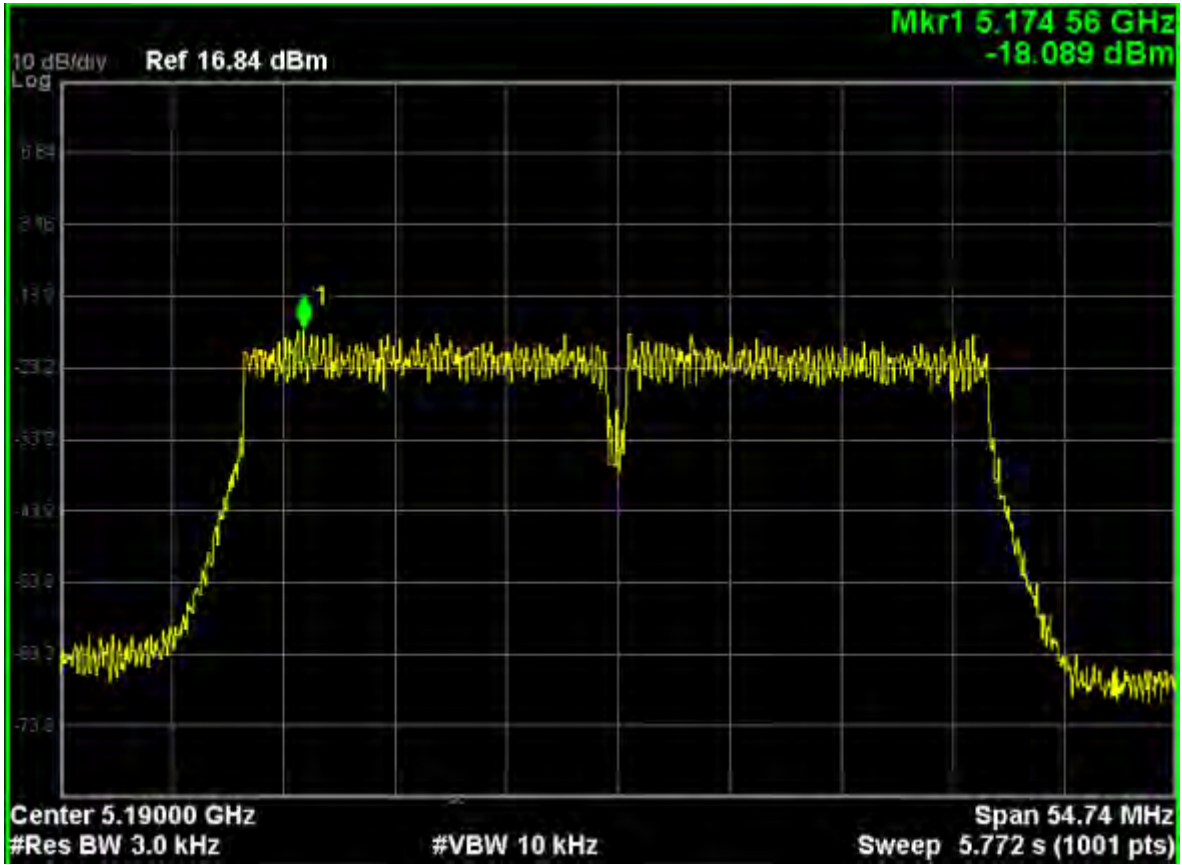
802.11ac20 channel 48



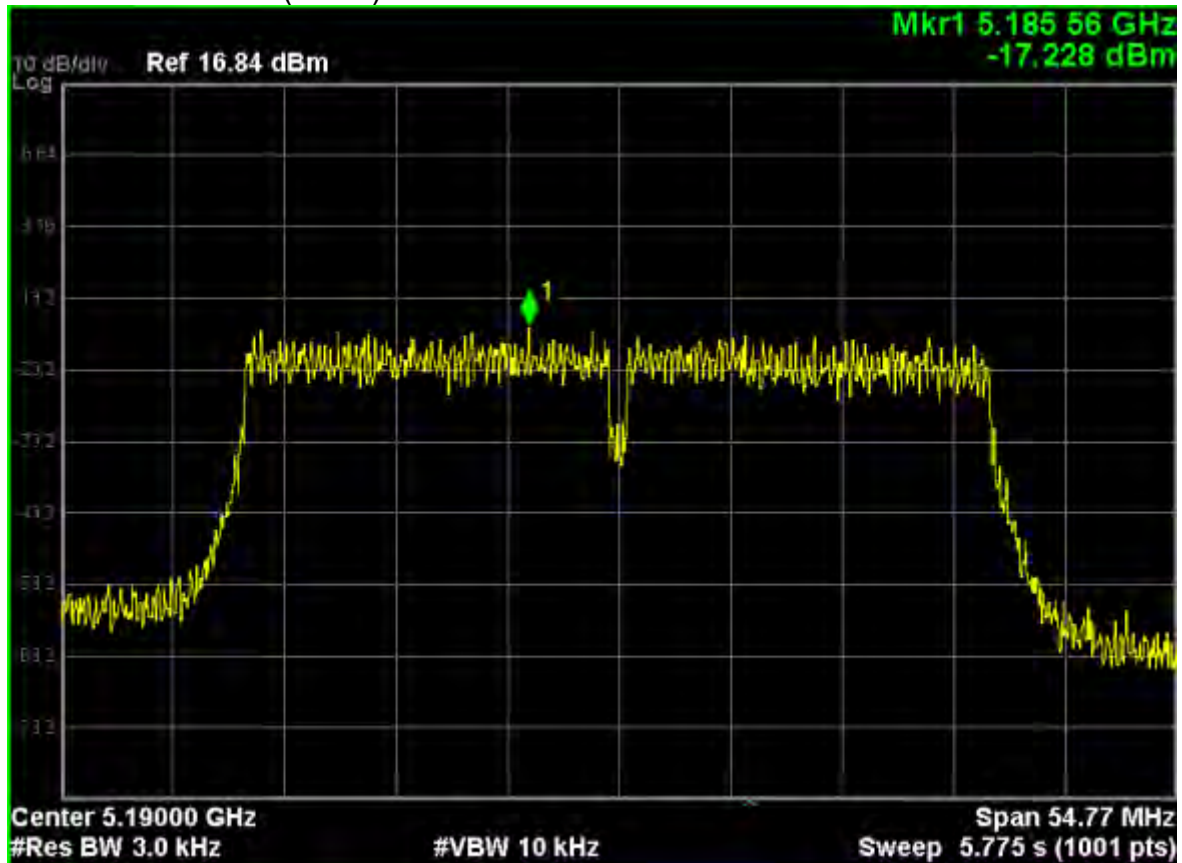
802.11ac20 channel 48(mimo)



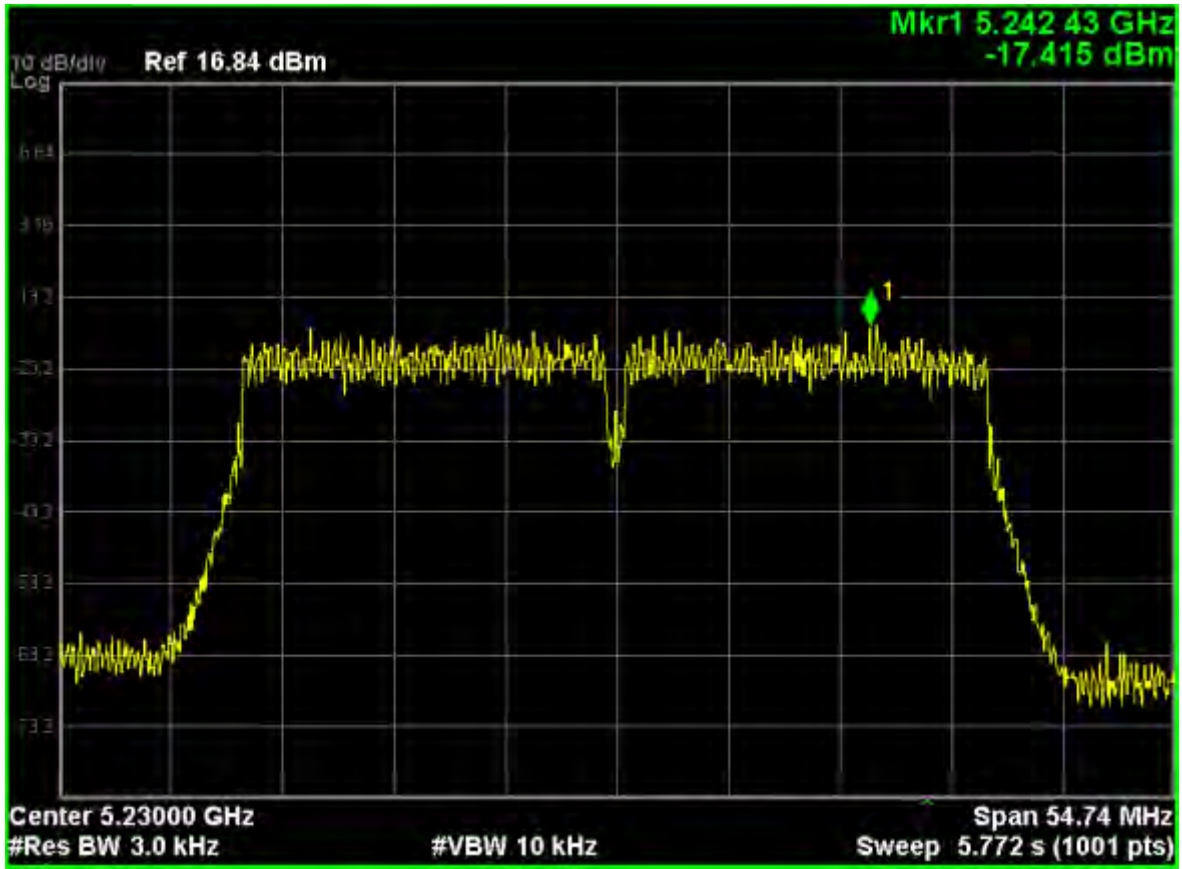
802.11ac40
802.11ac40 channel 38



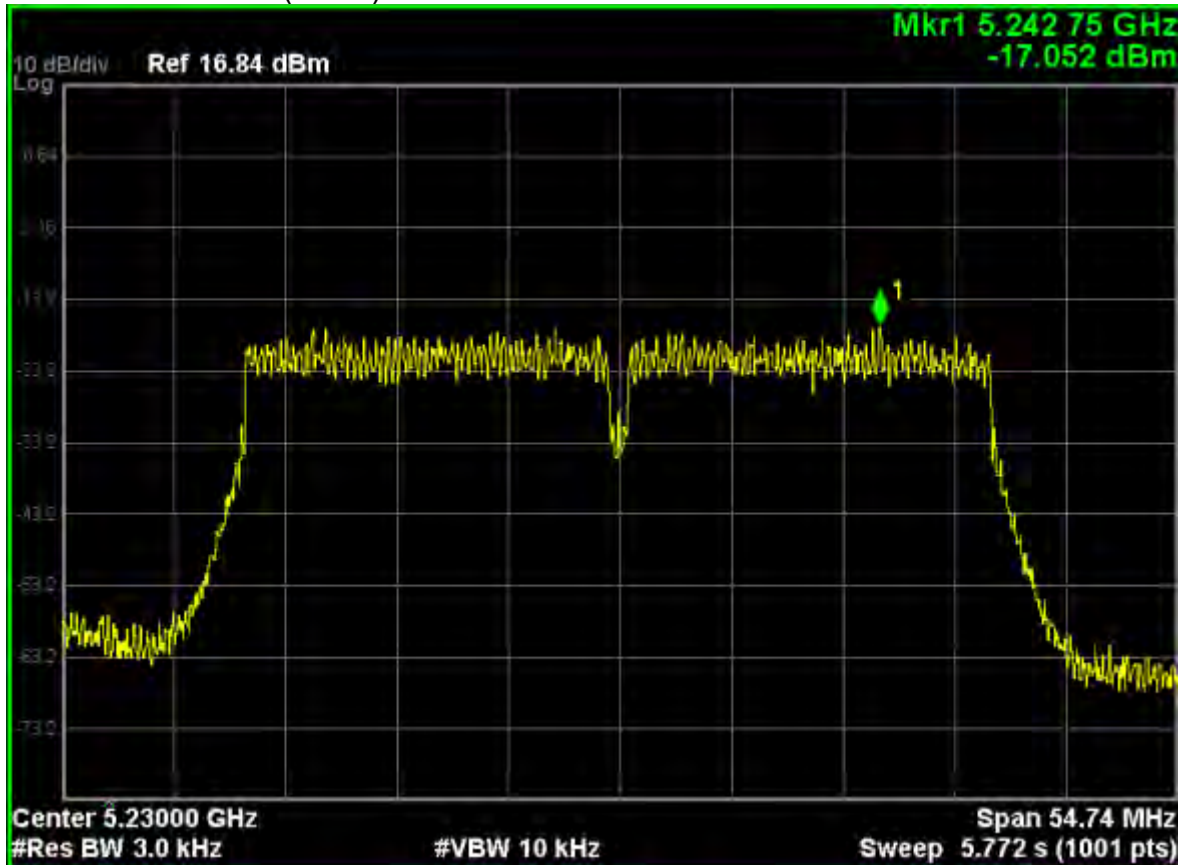
802.11ac40 channel 38(mimo)



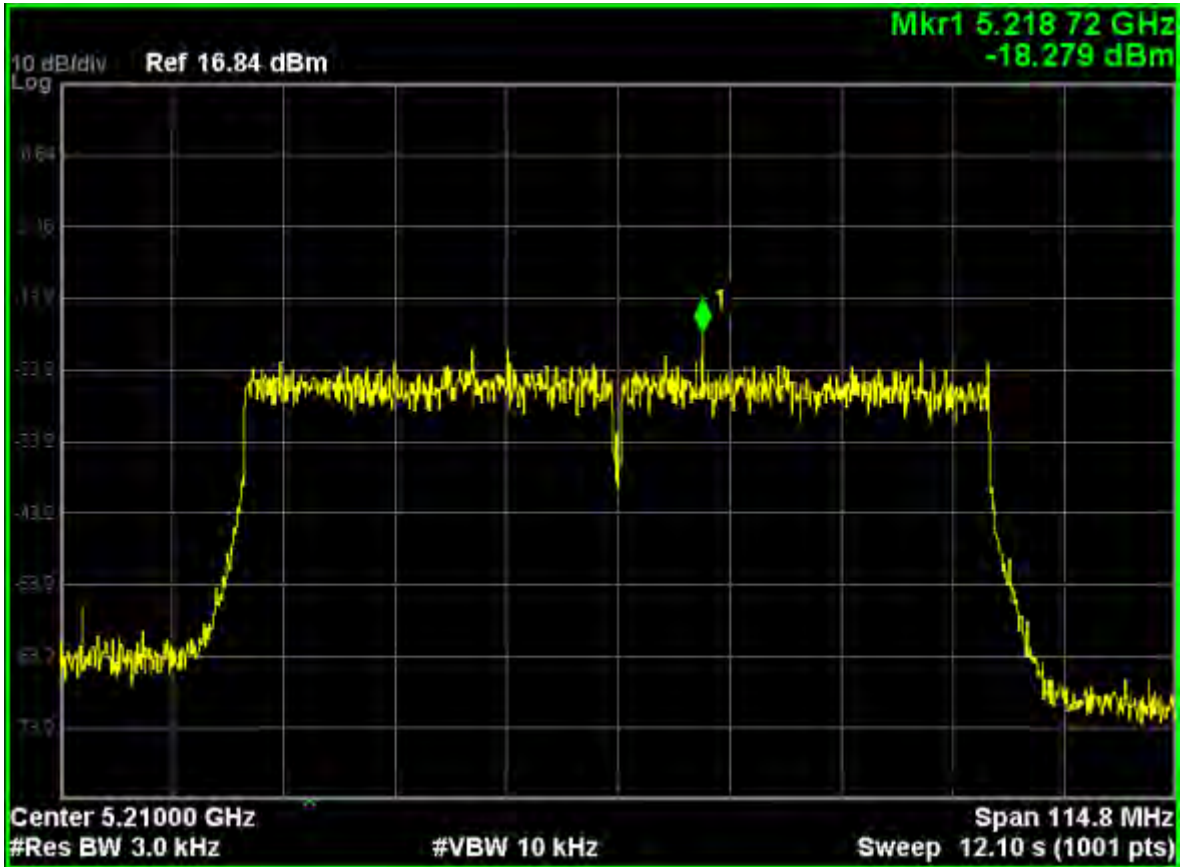
802.11ac40 channel 46



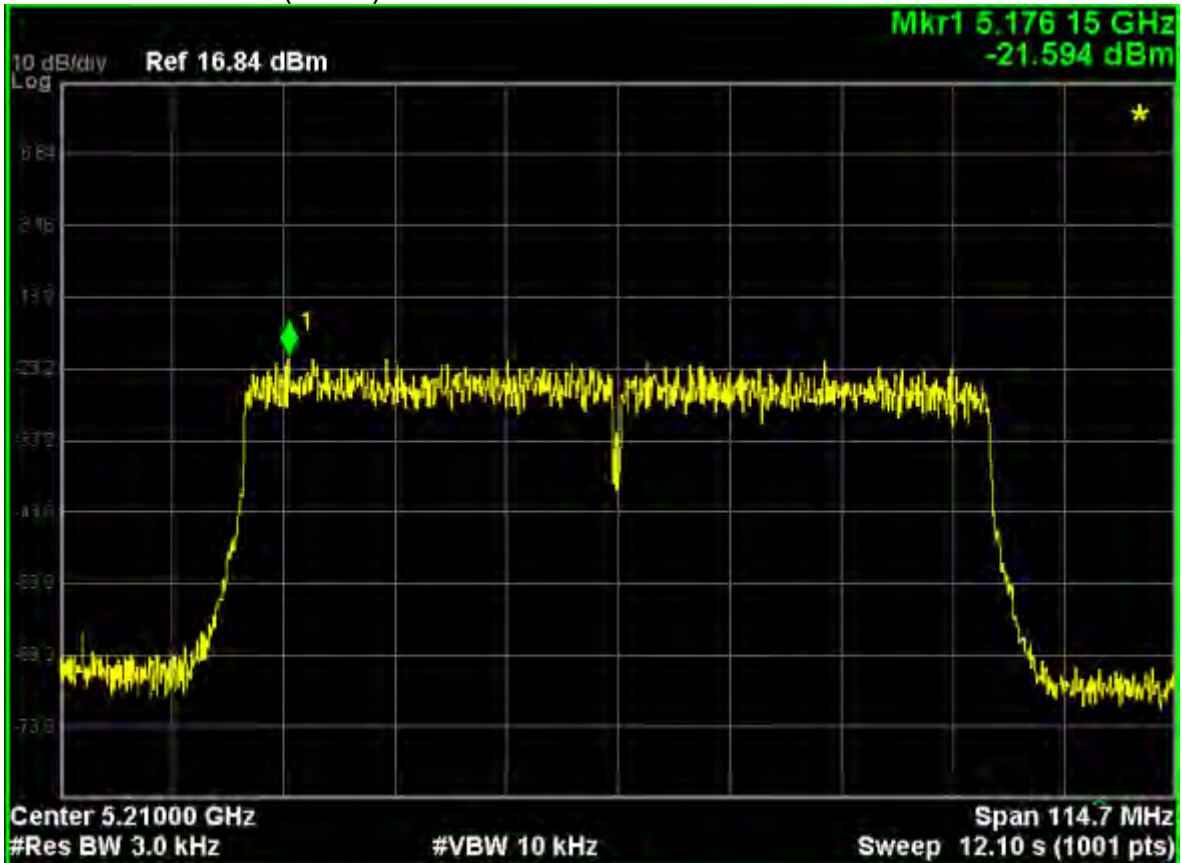
802.11ac40 channel 46(mimo)



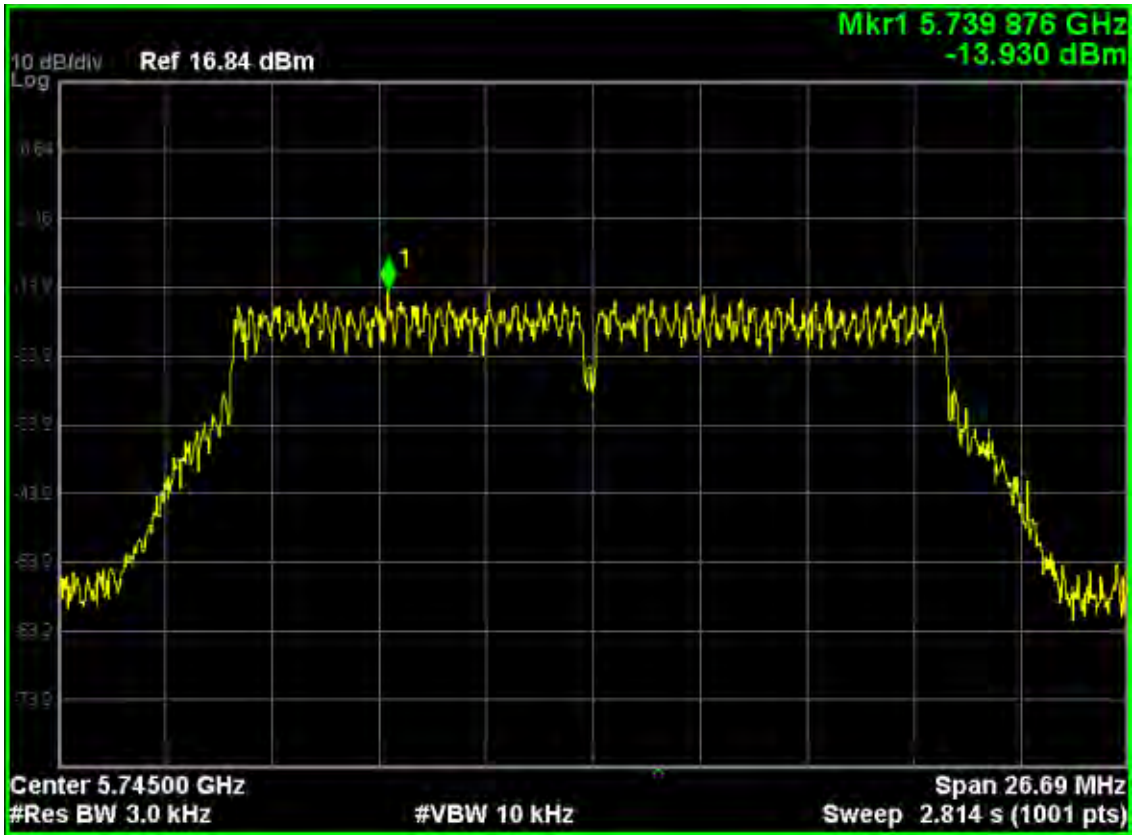
802.11ac80
802.11ac80 channel 42



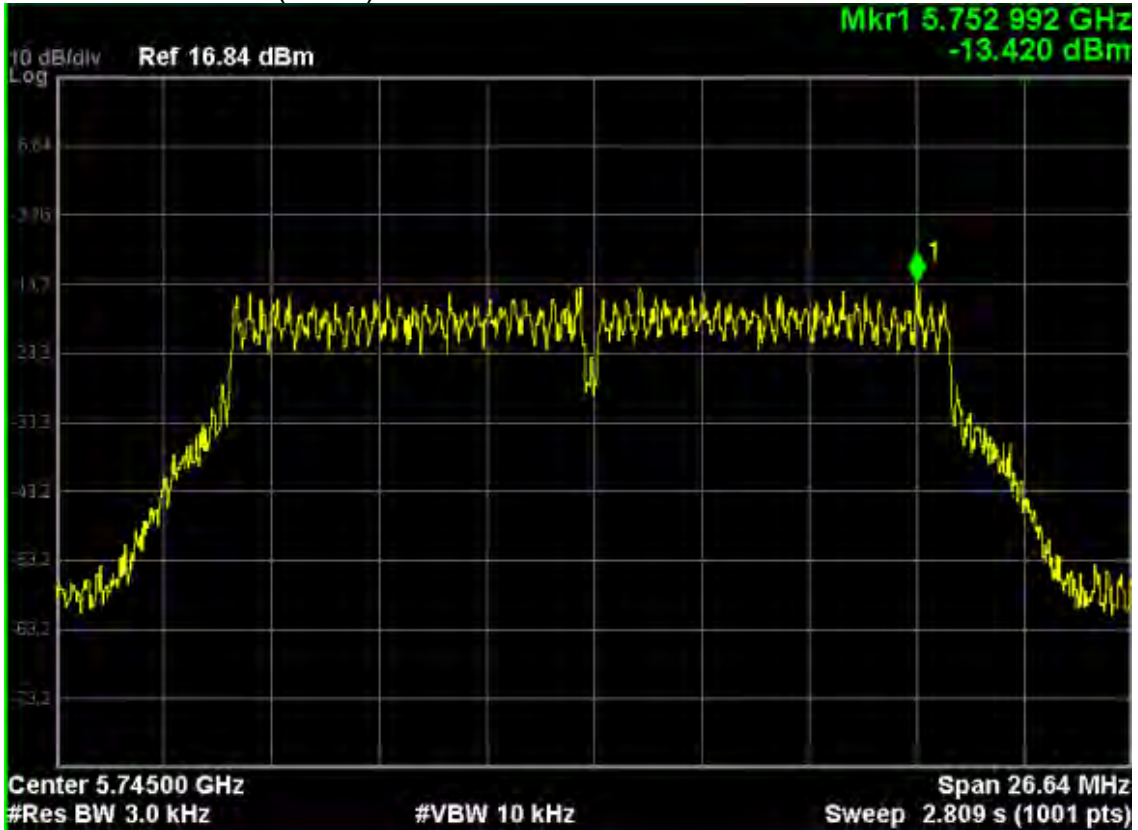
802.11ac80 channel 42(mimo)



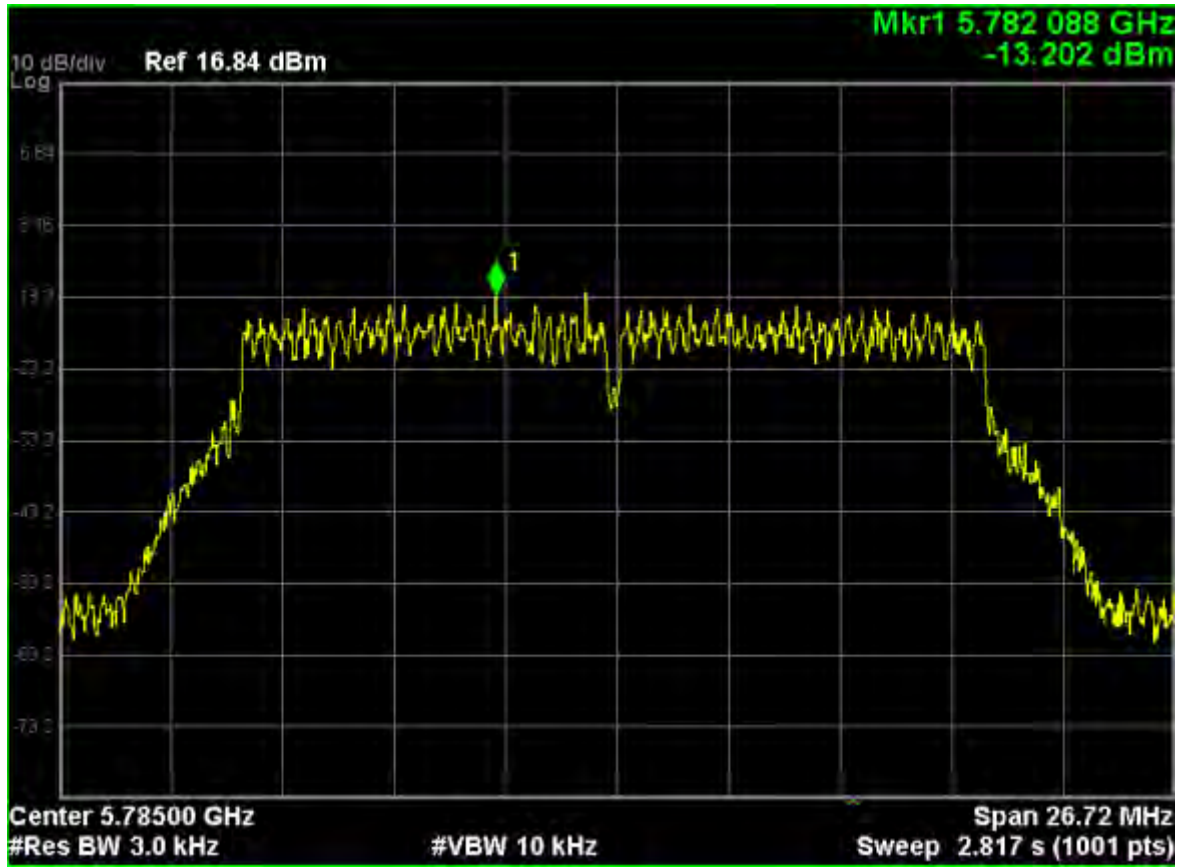
802.11ac(5725MHz-5850MHz)
802.11ac20
802.11ac20 channel 149



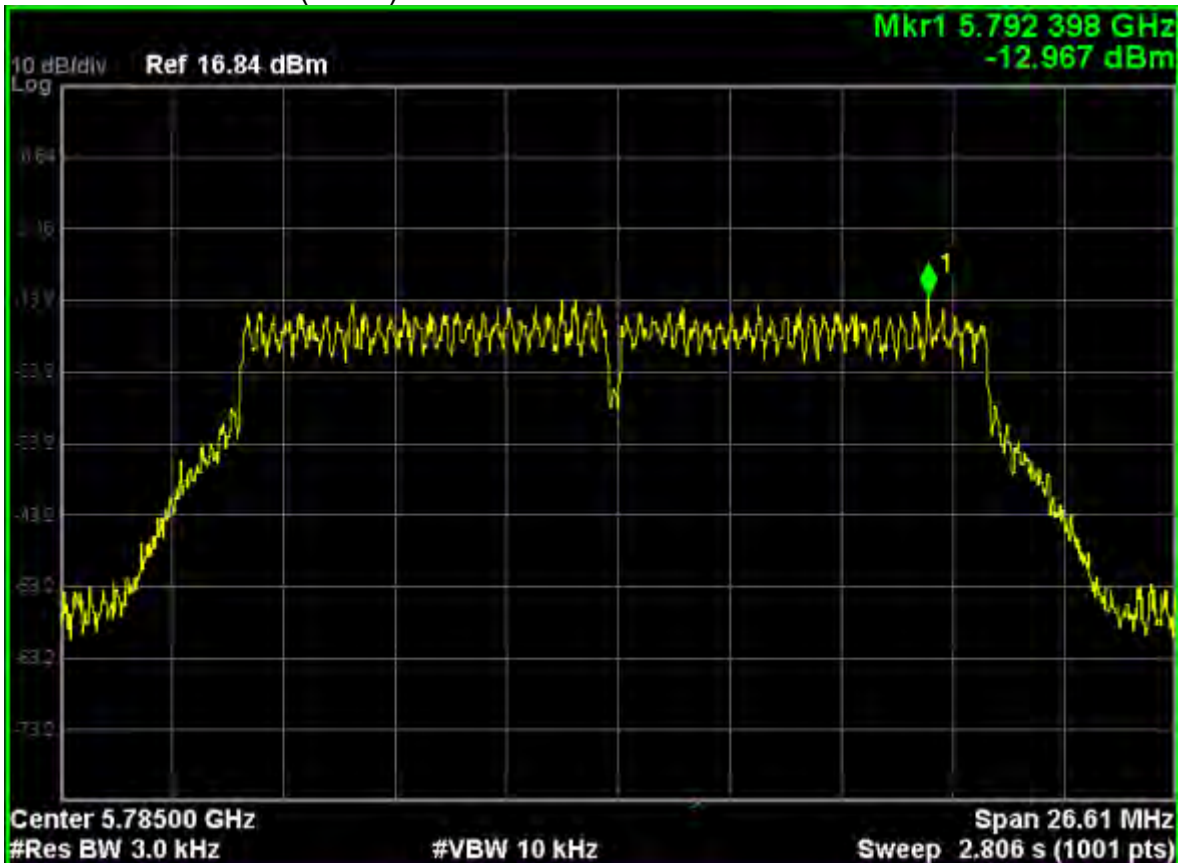
802.11ac20 channel 149(mimo)



802.11ac20 channel 157



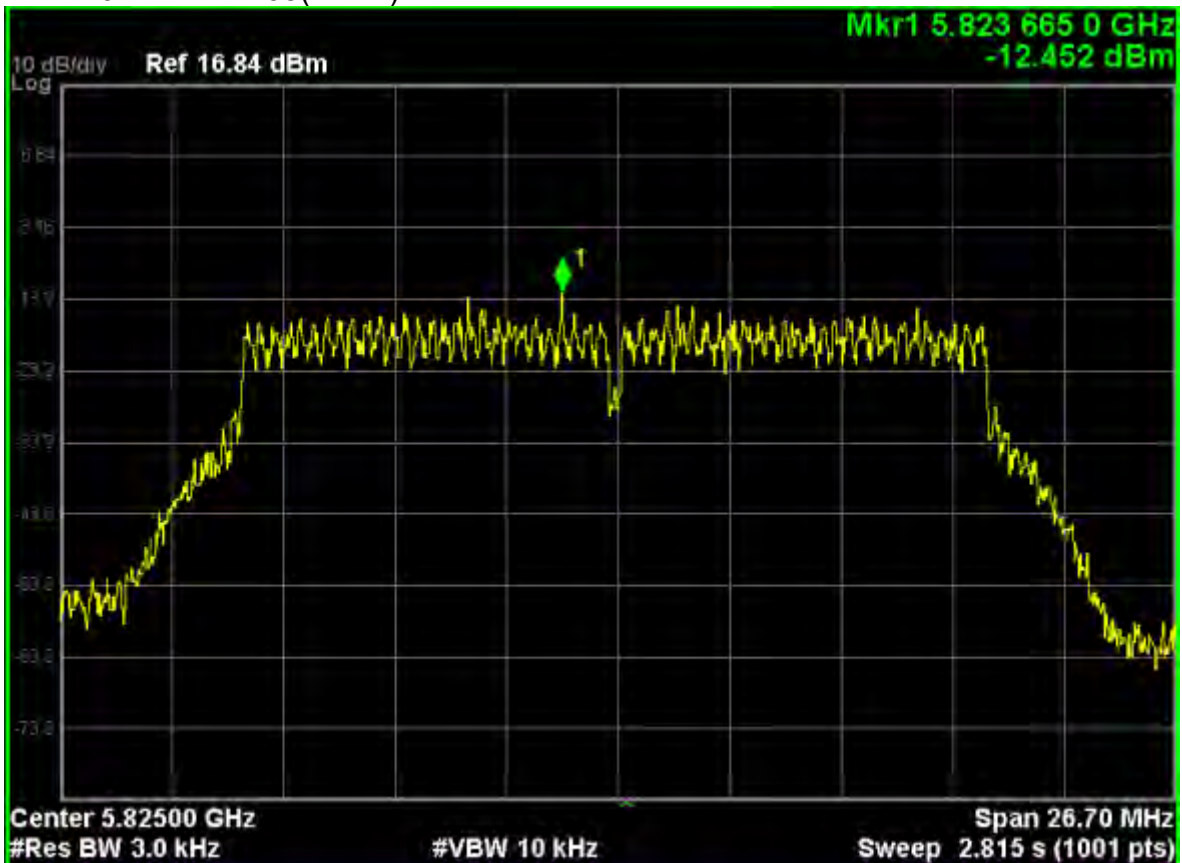
802.11ac20 channel 157(mimo)



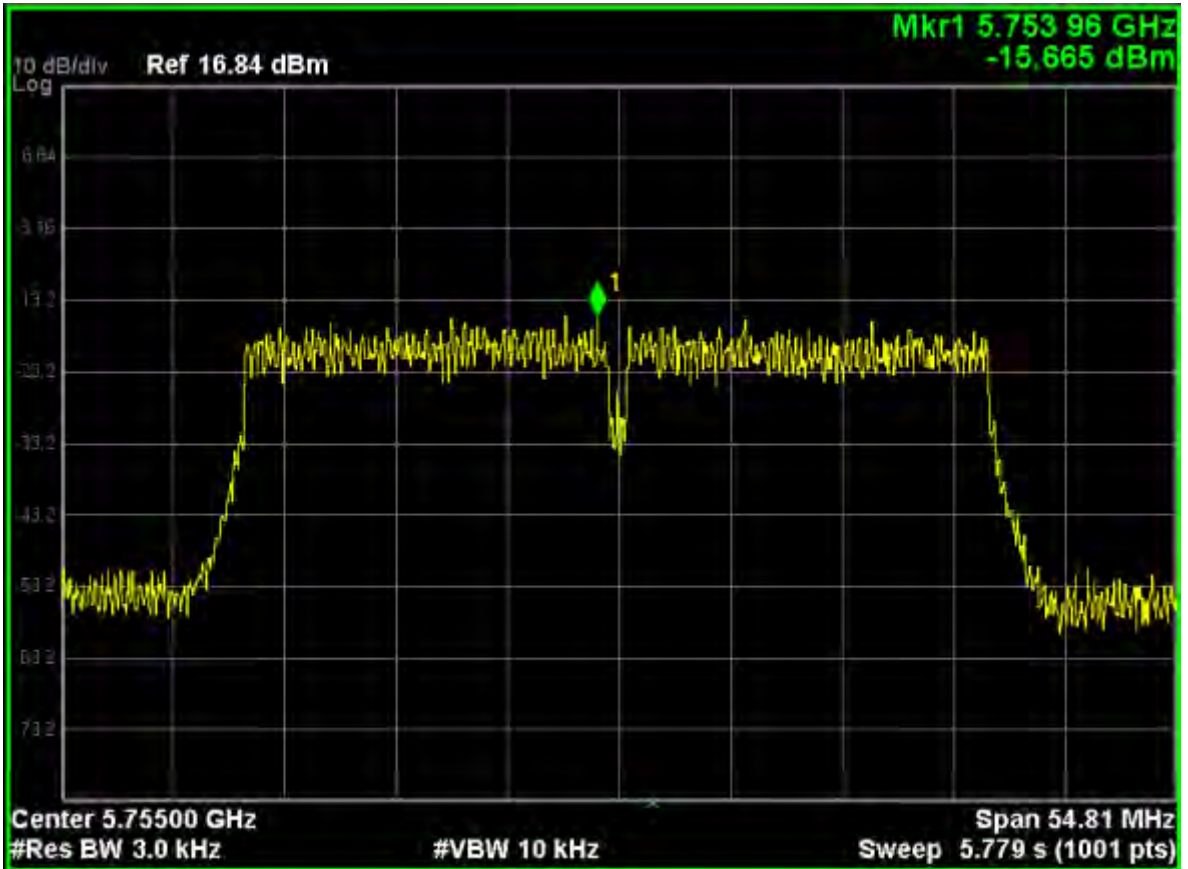
802.11ac20 channel 165



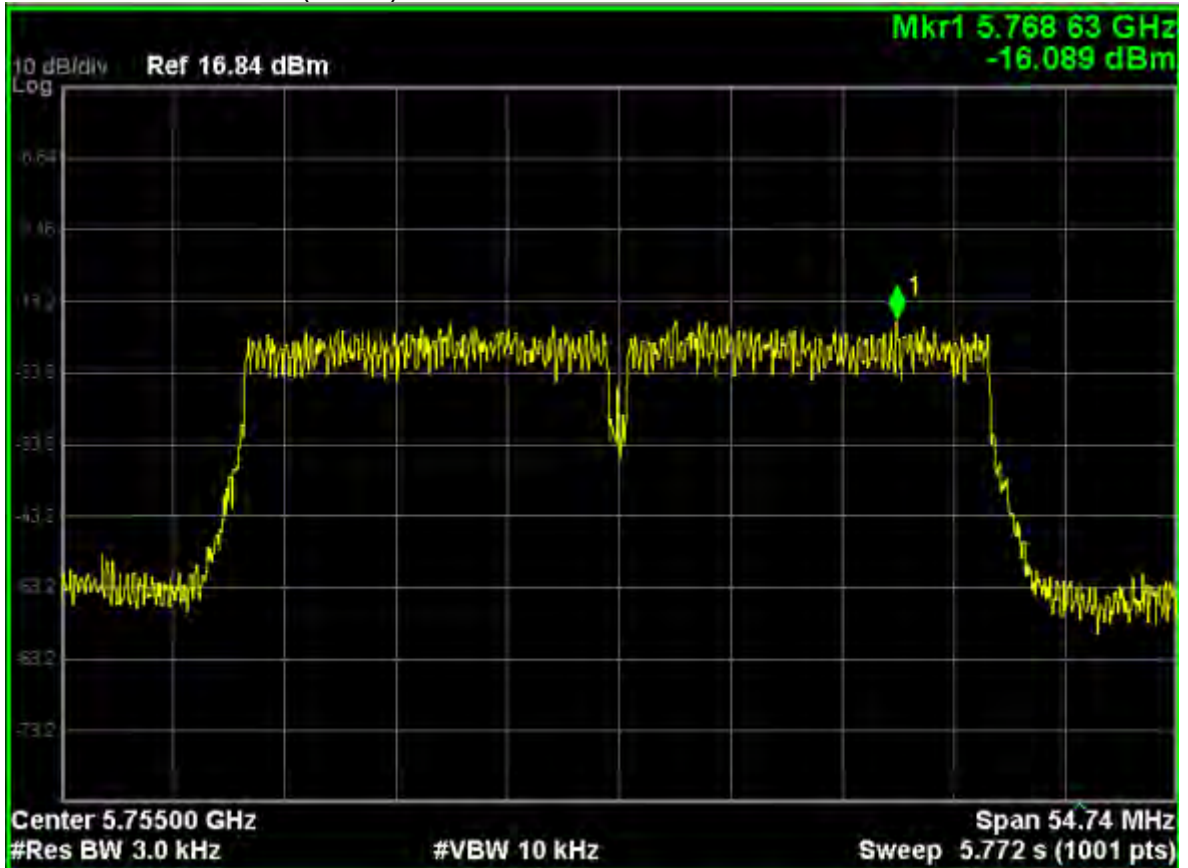
802.11ac20 channel 165(mimo)



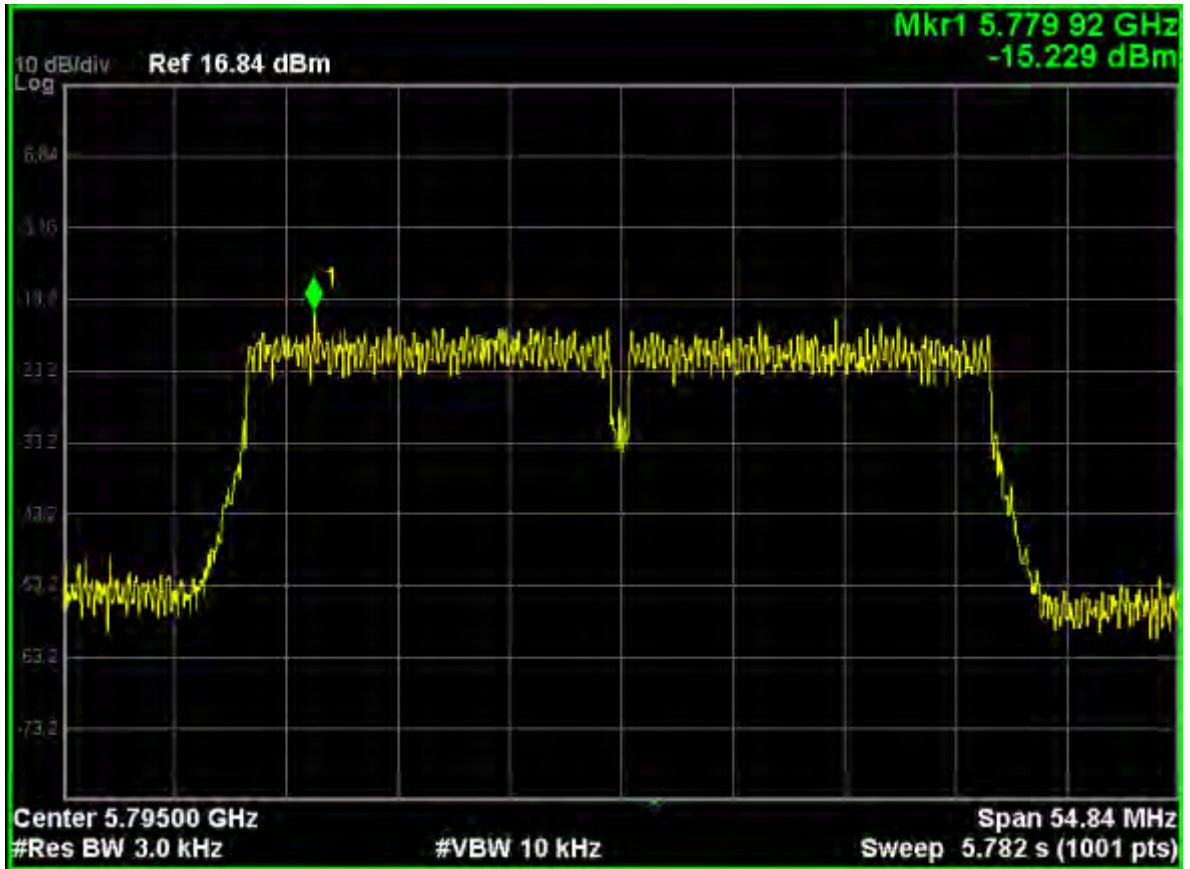
802.11ac40
802.11ac40 channel 151



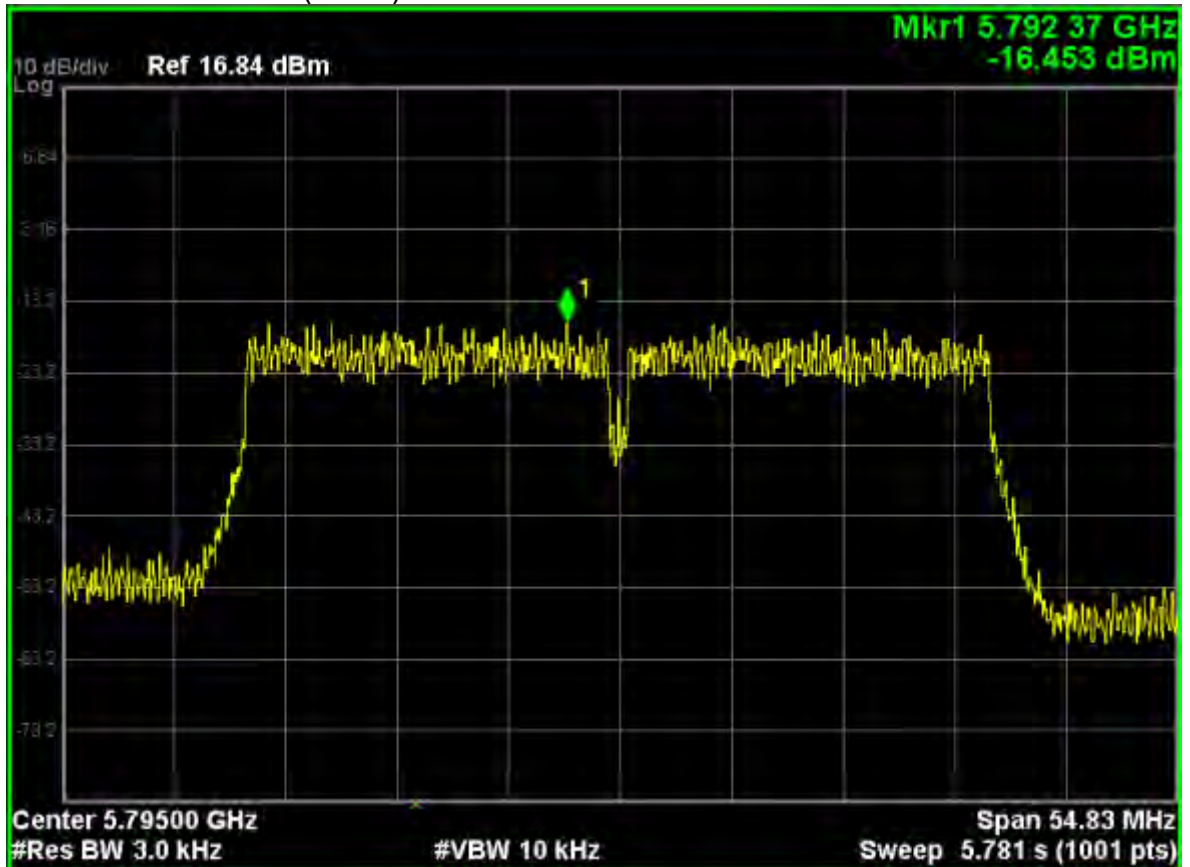
802.11ac40 channel 151(mimo)



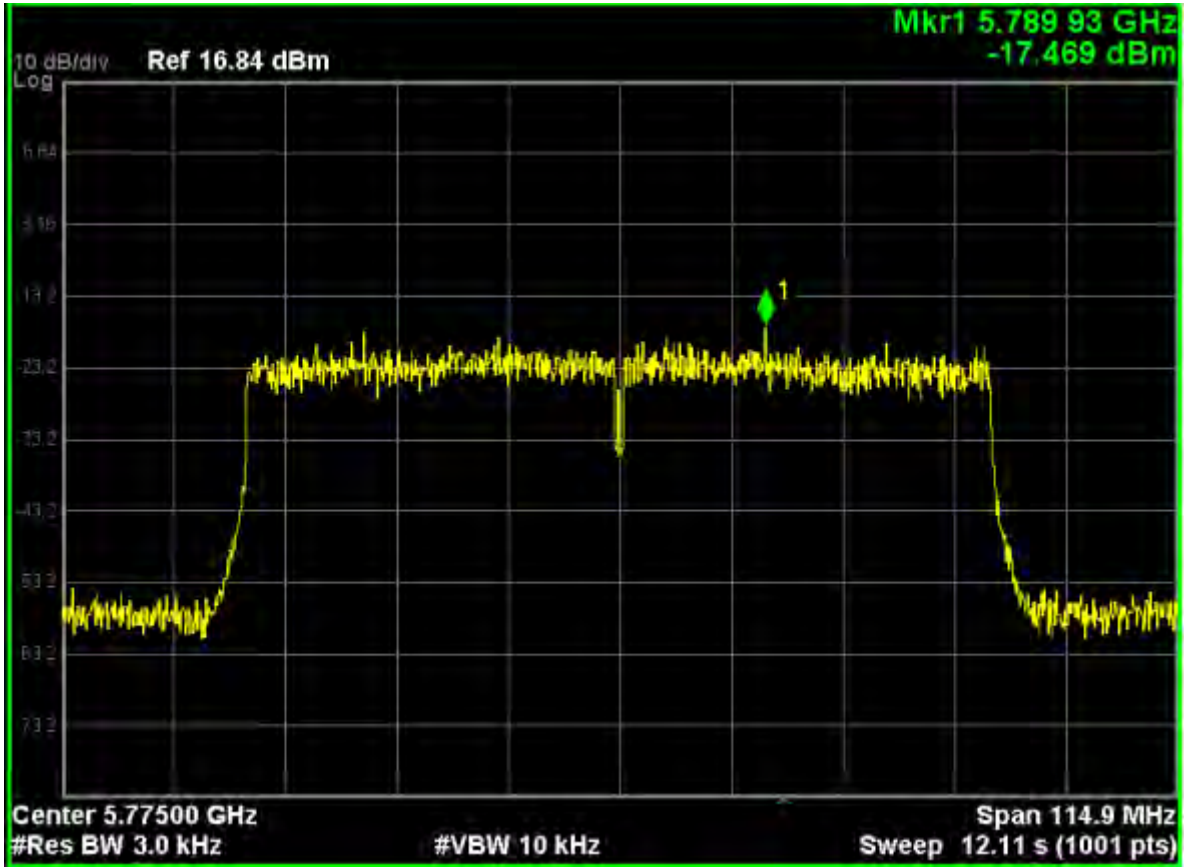
802.11ac40 channel 159



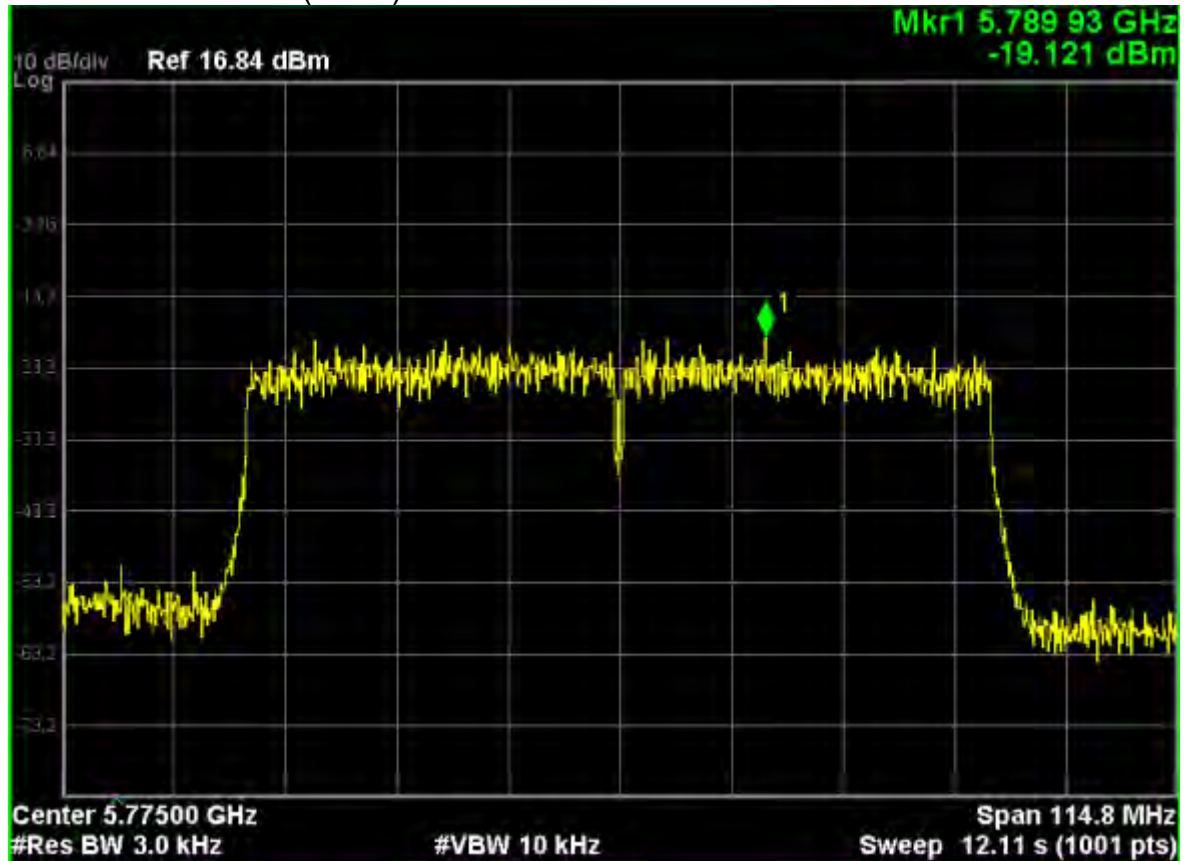
802.11ac40 channel 159(mimo)



802.11ac80
802.11ac80 channel 155

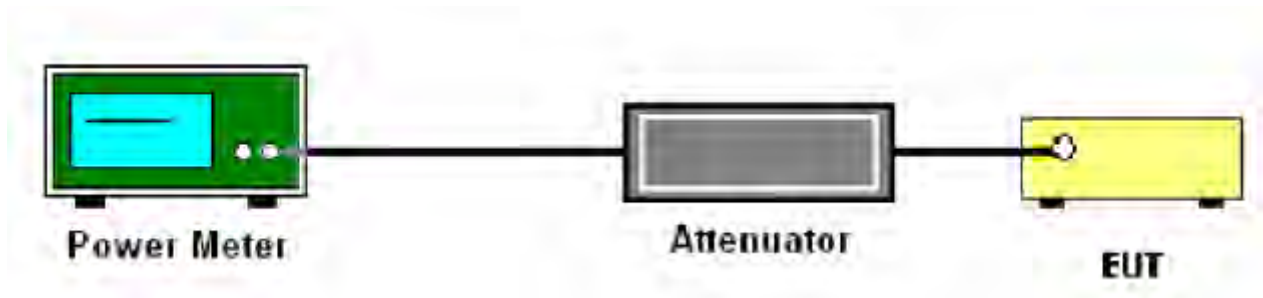


802.11ac80 channel 155(mimo)



7. PEAK OUTPUT POWER (CONDUCTION)

7.1 TEST SETUP



7.2 LIMITS

Limits	<30dBm
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7.3 TEST PROCEDURE

Place the EUT on the table and set it in transmitting mode. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to spectrum analyzer. The loss between RF output port of the EUT and the input port of the tester will be taken into consideration.

7.4 RESULTS & PERFORMANCE

WIFI 2.4G			
802.11b			
Channel	Peak power (dBm)	Limit (dBm)	Margin (dB)
Antenna 1			
1 (2412MHz)	12.9	23	10.1
6 (2437MHz)	12.8	23	10.2
11 (2462MHz)	12.9	23	10.1
Antenna 2			
1 (2412MHz)	12.7	23	10.3
6 (2437MHz)	12.5	23	10.5
11 (2462MHz)	12.7	23	10.3
802.11g			
Channel	Peak power (dBm)	Limit (dBm)	Margin (dB)
Antenna 1			
1 (2412MHz)	11.1	23	11.9
6 (2437MHz)	11.2	23	11.8
11 (2462MHz)	11.2	23	11.8
Antenna 2			
1 (2412MHz)	11.2	23	11.8
6 (2437MHz)	11.4	23	11.6
11 (2462MHz)	11.6	23	11.4
802.11n20			
Channel	Peak power (dBm)	Limit (dBm)	Margin (dB)
Antenna 1			
1 (2412MHz)	11.2	23	11.8
6 (2437MHz)	11.2	23	11.8
11 (2462MHz)	10.8	23	12.2
Antenna 2			
1 (2412MHz)	11.2	23	11.8
6 (2437MHz)	11.1	23	11.9
11 (2462MHz)	11.0	23	12.0
Mimo			
1 (2412MHz)	11.8	23	11.2

6 (2437MHz)	11.9	23	11.1
11 (2462MHz)	11.7	23	11.3
WIFI 5G			
802.11a			
Channel	Peak power (dBm)	Limit (dBm)	Margin (dB)
Antenna 1			
36 (5180MHz)	11.0	23	12.0
48 (5240MHz)	11.0	23	12.0
Antenna 2			
36 (5180MHz)	10.9	23	12.1
48 (5240MHz)	10.9	23	12.1
802.11n20			
Channel	Peak power (dBm)	Limit (dBm)	Margin (dB)
Antenna 1			
36 (5180MHz)	11.2	23	11.8
48 (5240MHz)	11.2	23	11.8
Antenna 2			
36 (5180MHz)	11.1	23	11.9
48 (5240MHz)	11.1	23	11.9
Mimo			
36 (5180MHz)	11.4	23	11.6
48 (5240MHz)	11.4	23	11.6
802.11n40			
Channel	Peak power (dBm)	Limit (dBm)	Margin (dB)
Antenna 1			
38 (5190MHz)	10.9	23	12.1
46 (5230MHz)	10.9	23	12.1
Antenna 2			
38 (5190MHz)	10.7	23	12.3
46 (5230MHz)	10.8	23	12.2
Mimo			
38 (5190MHz)	11.0	23	12.0
46 (5230MHz)	11.0	23	12.0
802.11a			
Channel	Peak power (dBm)	Limit (dBm)	Margin (dB)
Antenna 1			
149 (5745MHz)	11.2	23	11.8
157 (5785MHz)	11.2	23	11.8

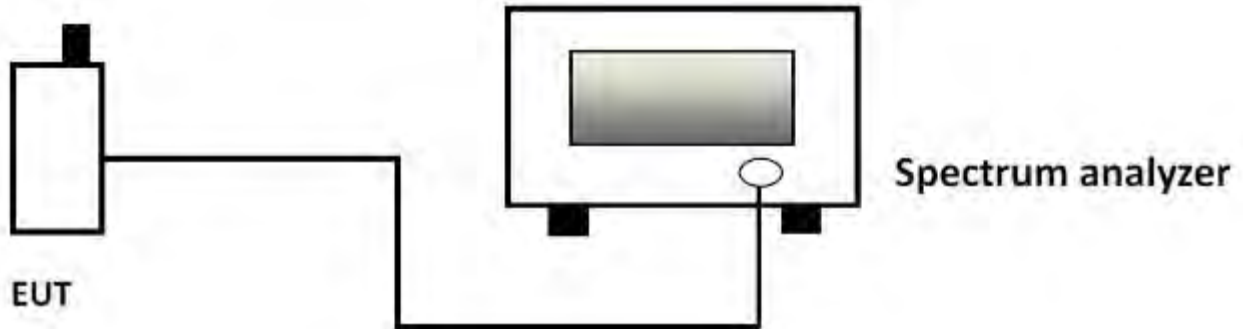
165 (5825MHz)	11.1	23	11.9
Antenna 2			
149 (5745MHz)	11.1	23	11.9
157 (5785MHz)	11.1	23	11.9
165 (5825MHz)	11.2	23	11.8
802.11n20			
Channel	Peak power (dBm)	Limit (dBm)	Margin (dB)
Antenna 1			
149 (5745MHz)	11.0	23	12.0
157 (5785MHz)	11.1	23	11.9
165 (5825MHz)	11.1	23	11.9
Antenna 2			
149 (5745MHz)	11.0	23	12.0
157 (5785MHz)	11.0	23	12.0
165 (5825MHz)	11.1	23	11.9
Mimo			
149 (5745MHz)	11.2	23	11.8
157 (5785MHz)	11.3	23	11.7
165 (5825MHz)	11.2	23	11.8
802.11n40			
Channel	Peak power (dBm)	Limit (dBm)	Margin (dB)
Antenna 1			
151 (5755MHz)	10.9	23	12.1
159 (5795MHz)	10.9	23	12.1
Antenna 2			
151 (5755MHz)	11.2	23	11.8
159 (5795MHz)	11.1	23	11.9
Mimo			
151 (5755MHz)	11.3	23	11.7
159 (5795MHz)	11.3	23	11.7
802.11ac20			
Channel	Peak power (dBm)	Limit (dBm)	Margin (dB)
Antenna 1			
36 (5180MHz)	11.0	23	12.0
48 (5240MHz)	11.0	23	12.0
Antenna 2			
36 (5180MHz)	11.0	23	12.0
48 (5240MHz)	10.9	23	12.1
Mimo			

36 (5180MHz)	11.1	23	11.9
48 (5240MHz)	11.2	23	11.8
802.11ac40			
Channel	Peak power (dBm)	Limit (dBm)	Margin (dB)
Antenna 1			
38 (5190MHz)	10.8	23	12.2
46 (5230MHz)	10.7	23	12.3
Antenna 2			
38 (5190MHz)	10.7	23	12.3
46 (5230MHz)	10.7	23	12.7
Mimo			
38 (5190MHz)	11.0	23	12.0
46 (5230MHz)	10.9	23	12.1
802.11ac80			
Channel	Peak power (dBm)	Limit (dBm)	Margin (dB)
Antenna 1			
42 (5210MHz)	11.0	23	12.0
Antenna 2			
42 (5210MHz)	10.9	23	12.1
Mimo			
42 (5210MHz)	11.0	23	12.0
802.11ac20			
Channel	Peak power (dBm)	Limit (dBm)	Margin (dB)
Antenna 1			
149 (5745MHz)	10.9	23	12.1
157 (5785MHz)	10.9	23	12.1
165 (5825MHz)	11.0	23	12.0
Antenna 2			
149 (5745MHz)	10.9	23	12.1
157 (5785MHz)	10.9	23	12.1
165 (5825MHz)	11.1	23	11.9
Mimo			
149 (5745MHz)	11.1	23	11.9
157 (5785MHz)	11.2	23	11.8
165 (5825MHz)	11.2	23	11.8
802.11ac40			
Channel	Peak power (dBm)	Limit (dBm)	Margin (dB)
Antenna 1			
151 (5755MHz)	10.9	23	12.1

159 (5795MHz)	10.9	23	12.1
Antenna 2			
151 (5755MHz)	11.0	23	12.0
159 (5795MHz)	11.0	23	12.0
Mimo			
151 (5755MHz)	11.1	23	11.9
159 (5795MHz)	11.0	23	12.0
802.11ac80			
Channel	Peak power (dBm)	Limit (dBm)	Margin (dB)
Antenna 1			
155 (5775MHz)	11.0	23	12.0
Antenna 2			
155 (5775MHz)	11.0	23	12.0
Mimo			
155 (5775MHz)	11.2	23	11.8

8. SPURIOUS EMISSIONS (CONDUCTION)

8.1 TEST SETUP



8.2 LIMITS

Limit	<(P-20dB)
Note: P is the highest level of the desired power	

8.3 TEST PROCEDURE

The EUT was connected to Spectrum Analyzer and Base Station via power divider. Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.

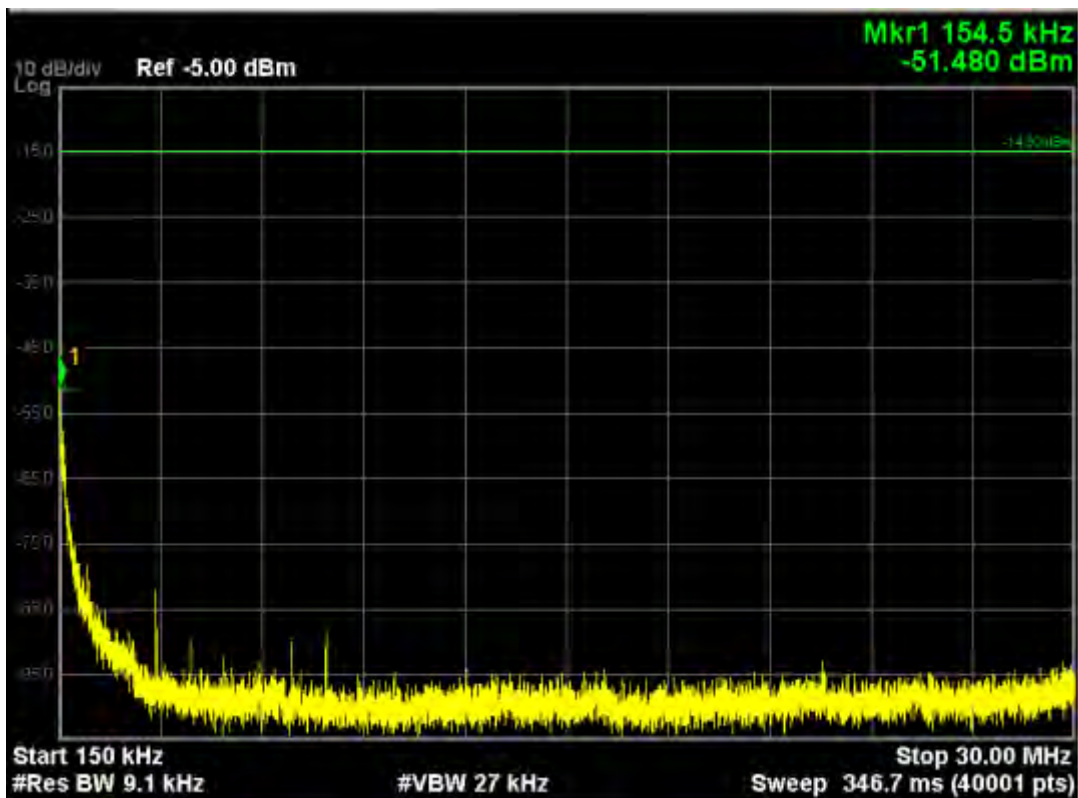
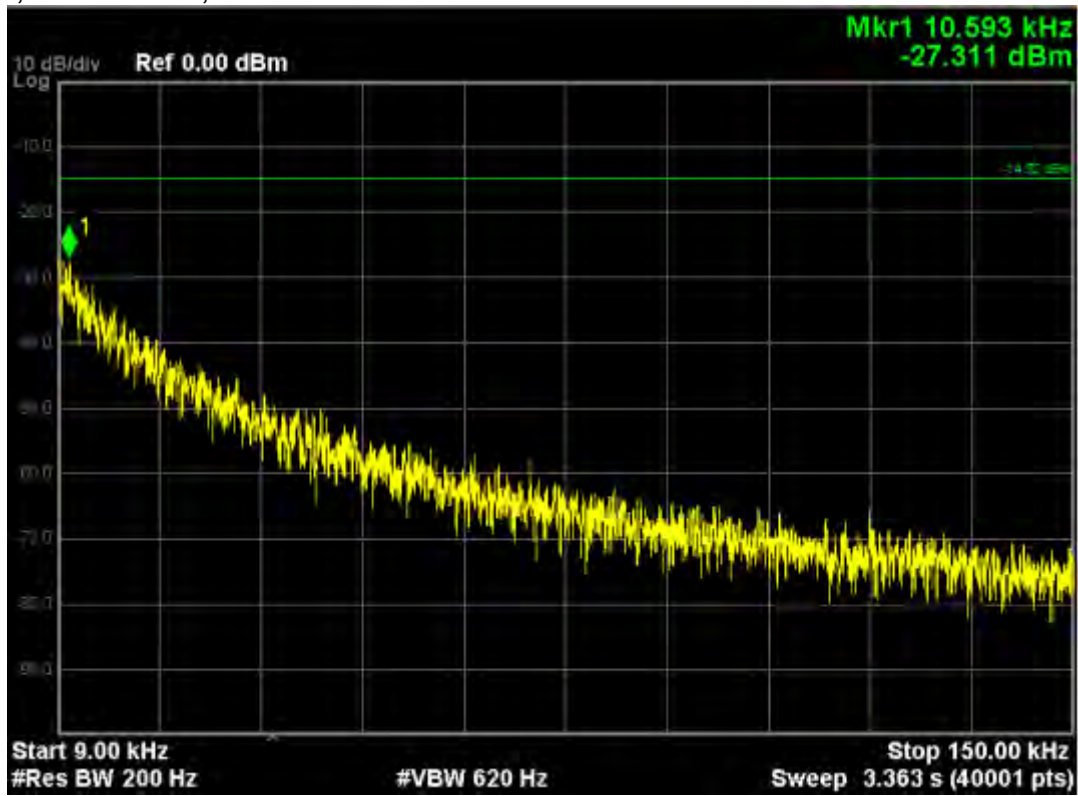
RBW = 100 kHz; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold
Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded. The level displayed must comply with the limit specified in this Section.

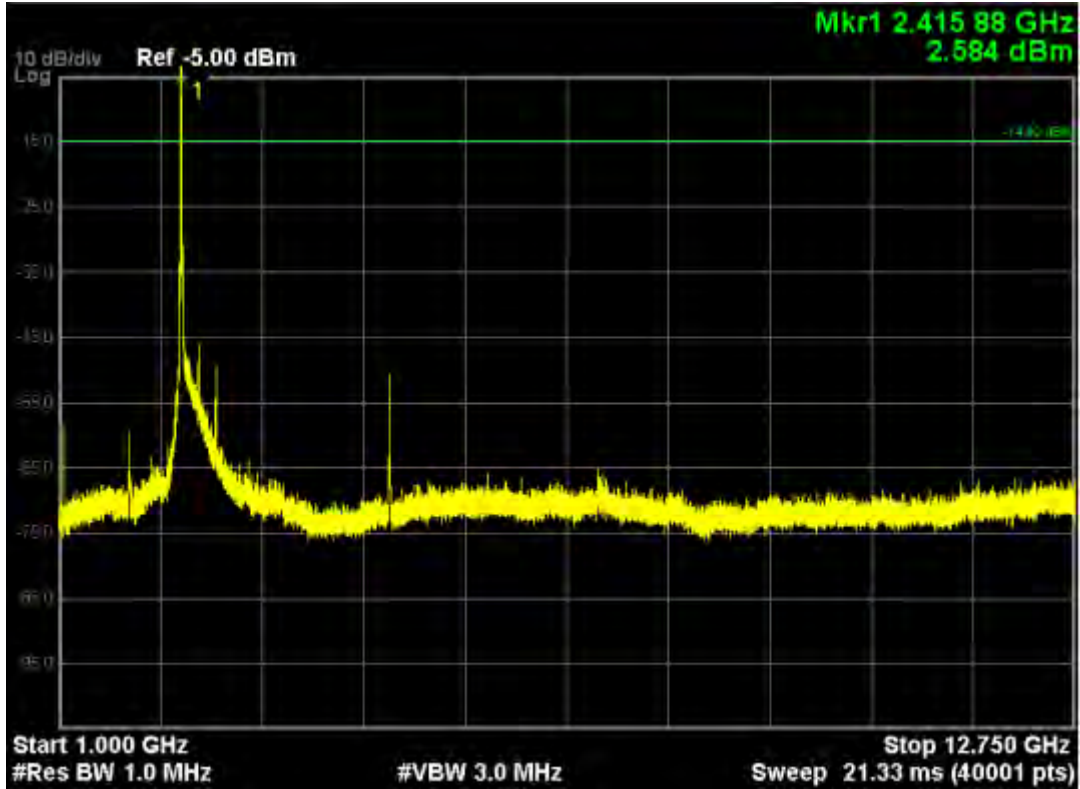
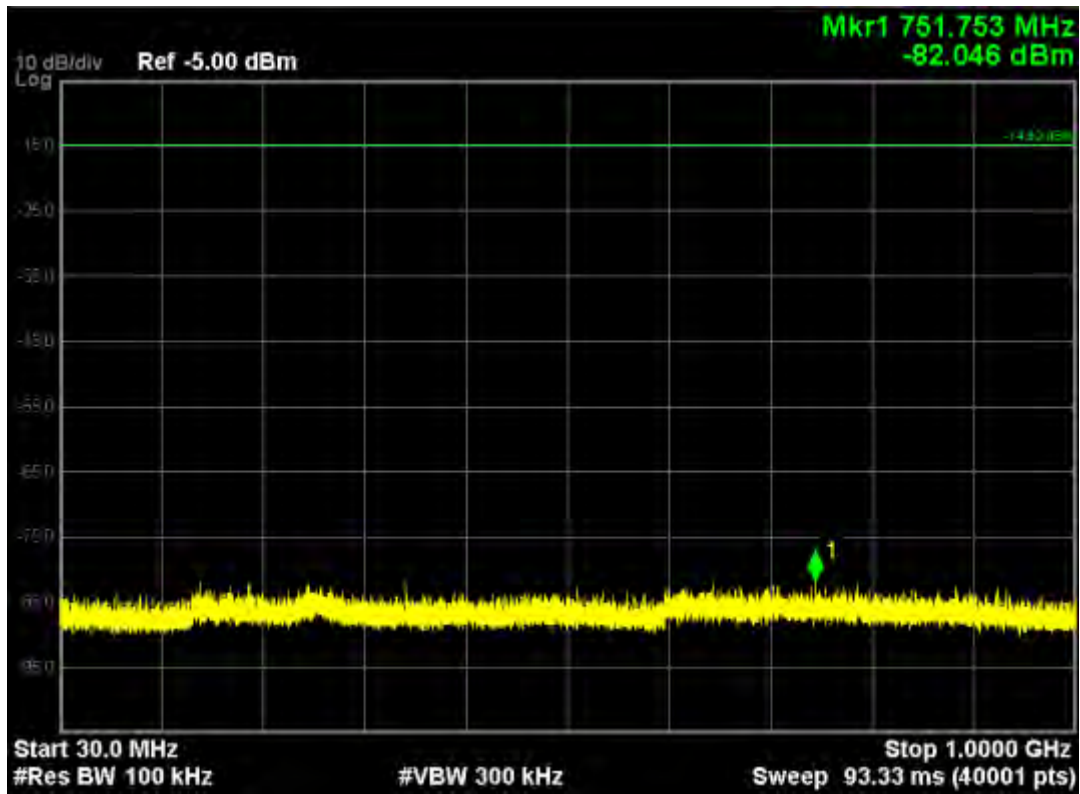
8.4 RESULTS & PERFORMANCE

Antenna 1

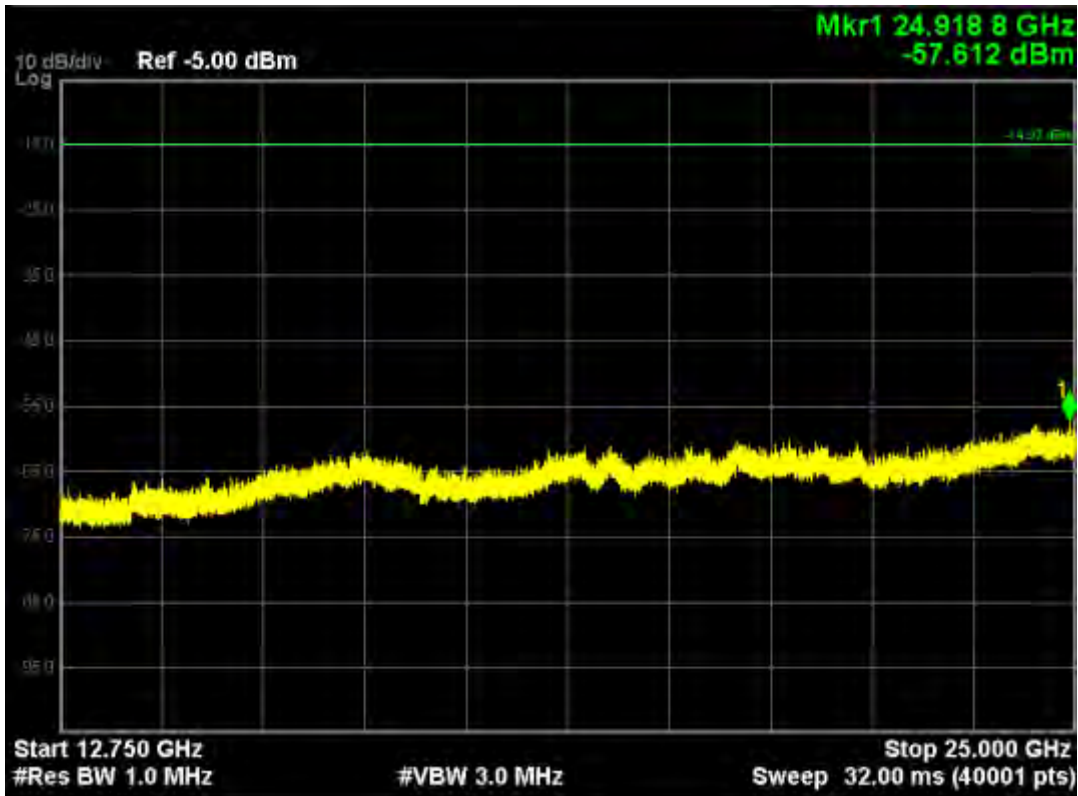
WIFI 2.4G

802.11b, traffic mode; Channel 1

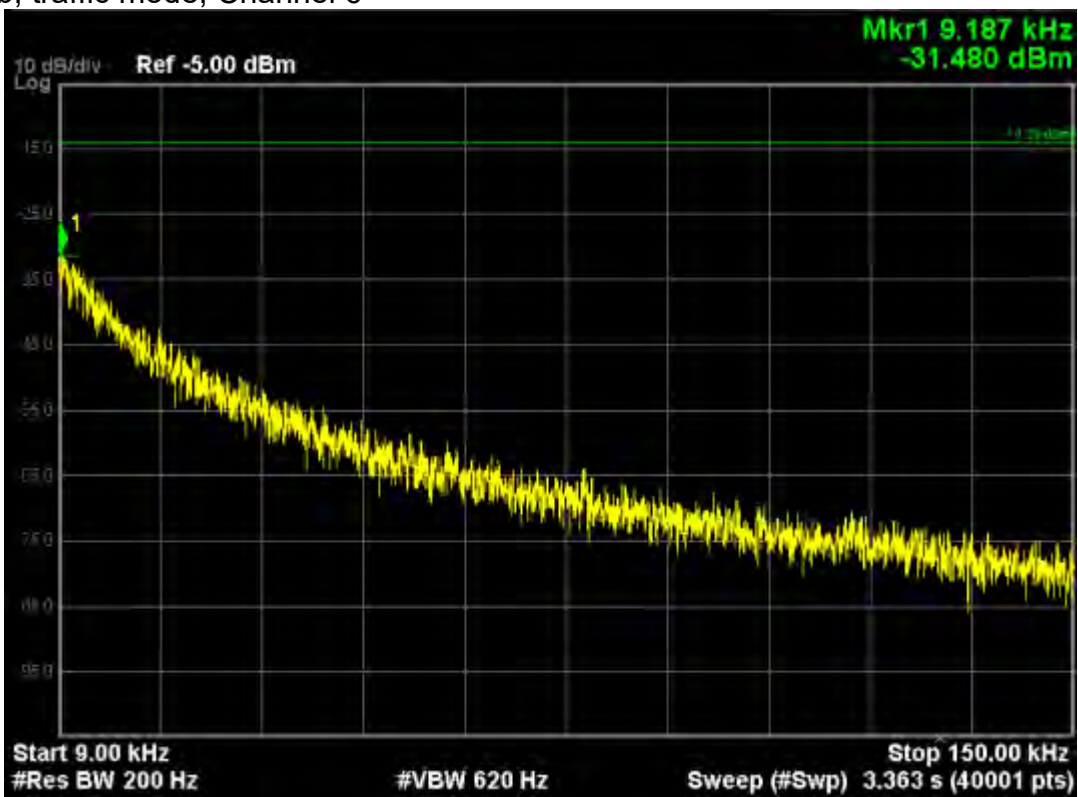


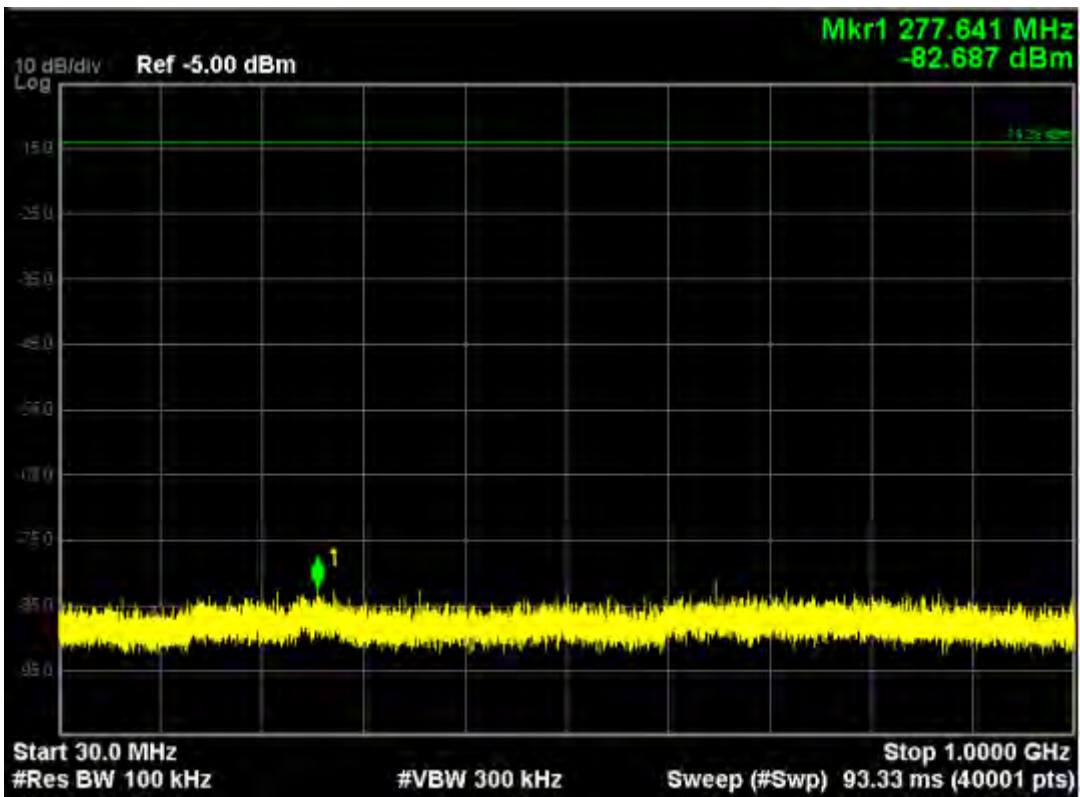
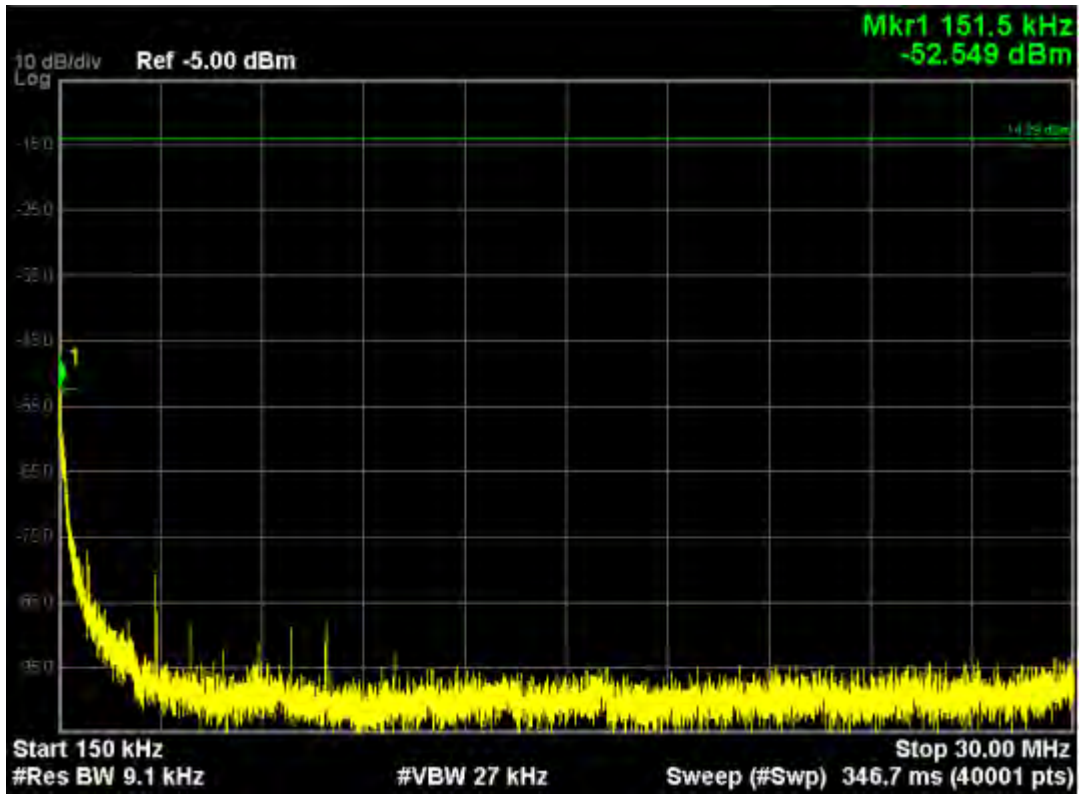


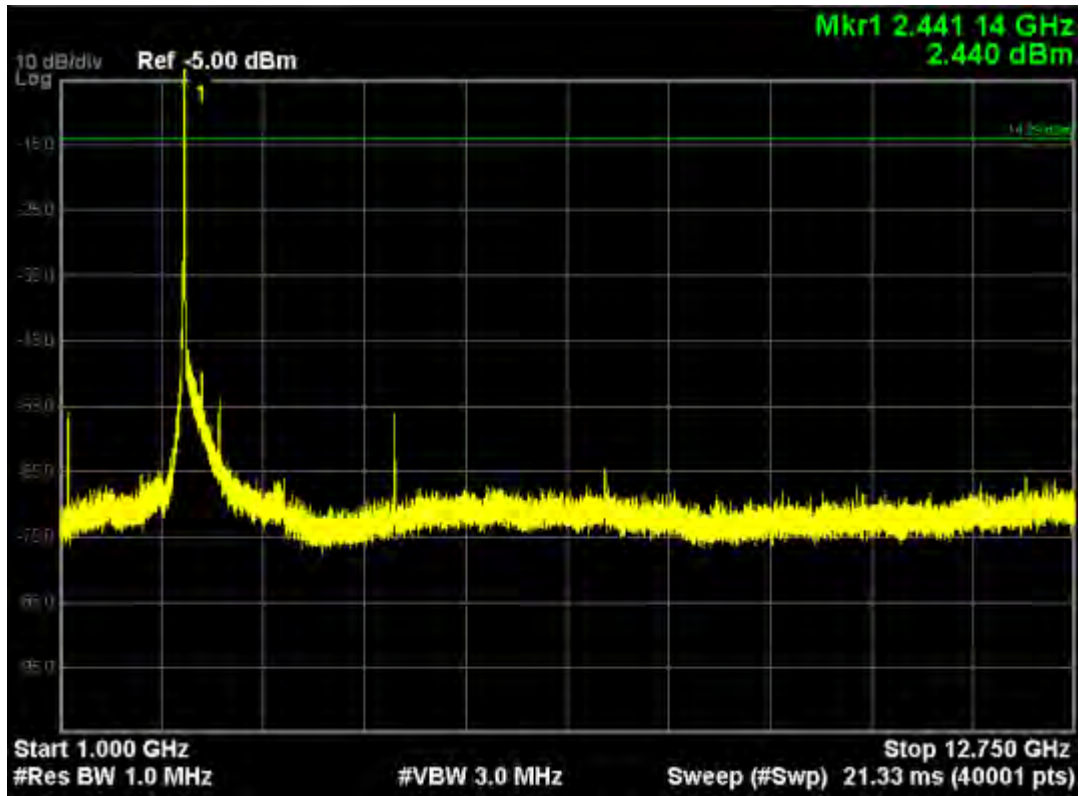
Note: The point mark1 is carrier.



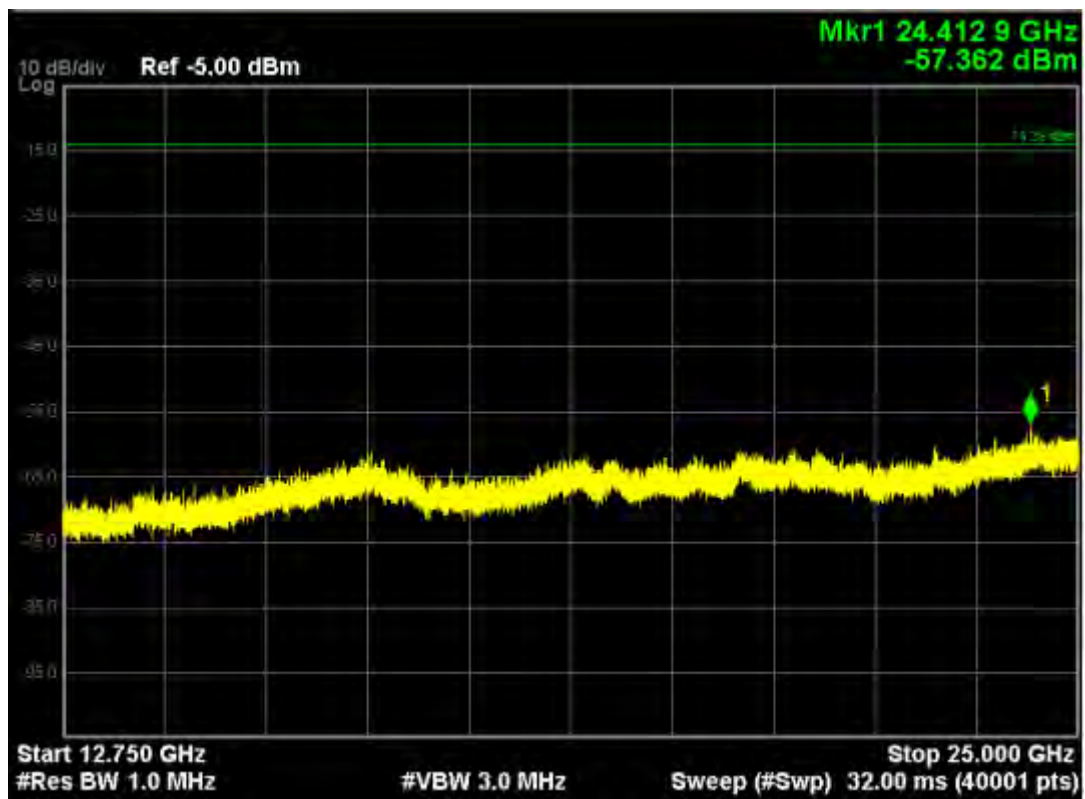
802.11b, traffic mode; Channel 6



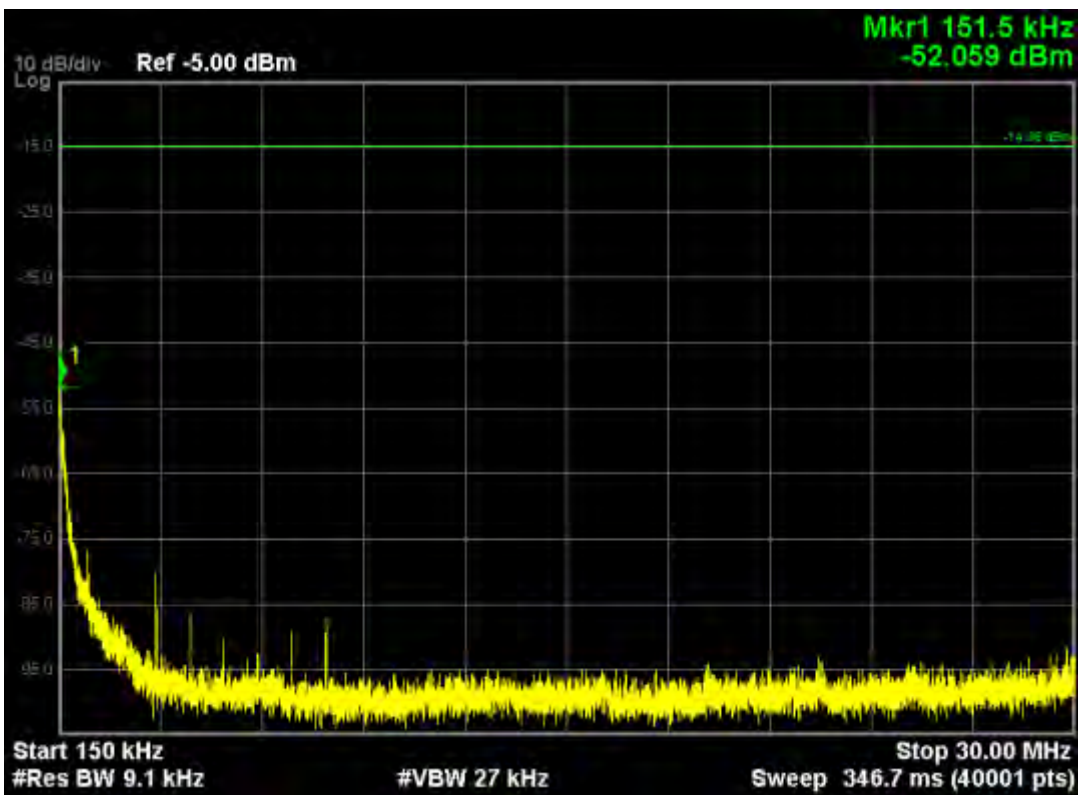
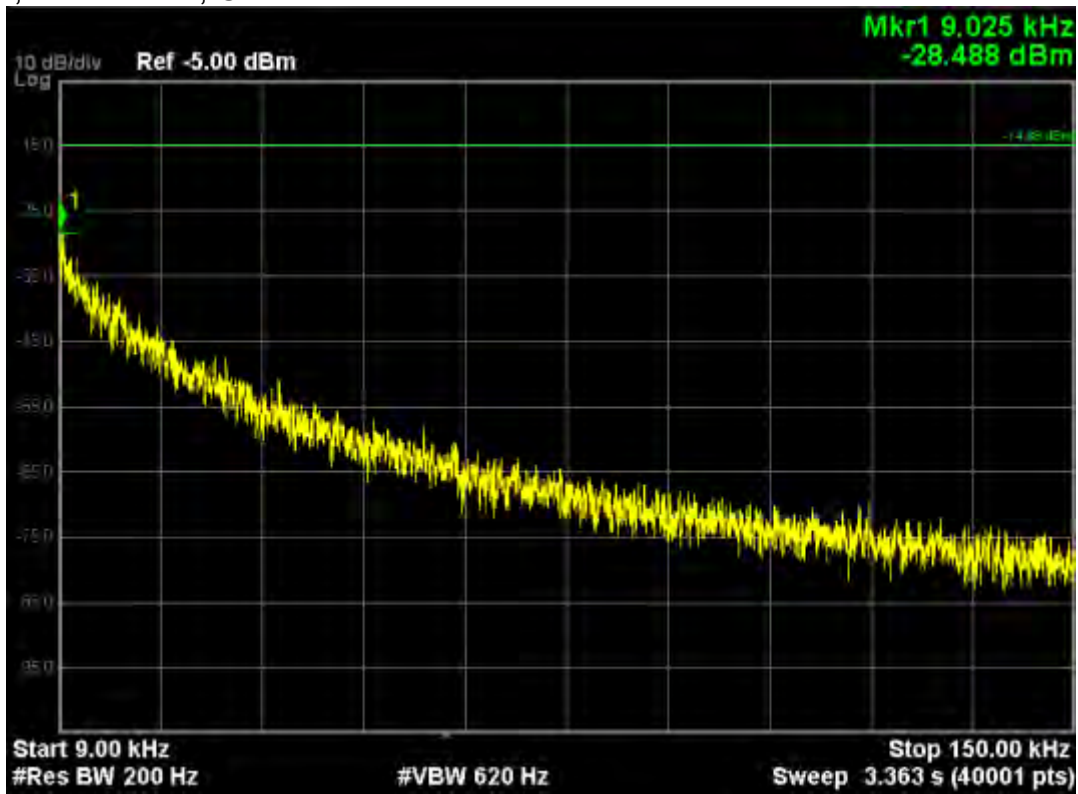


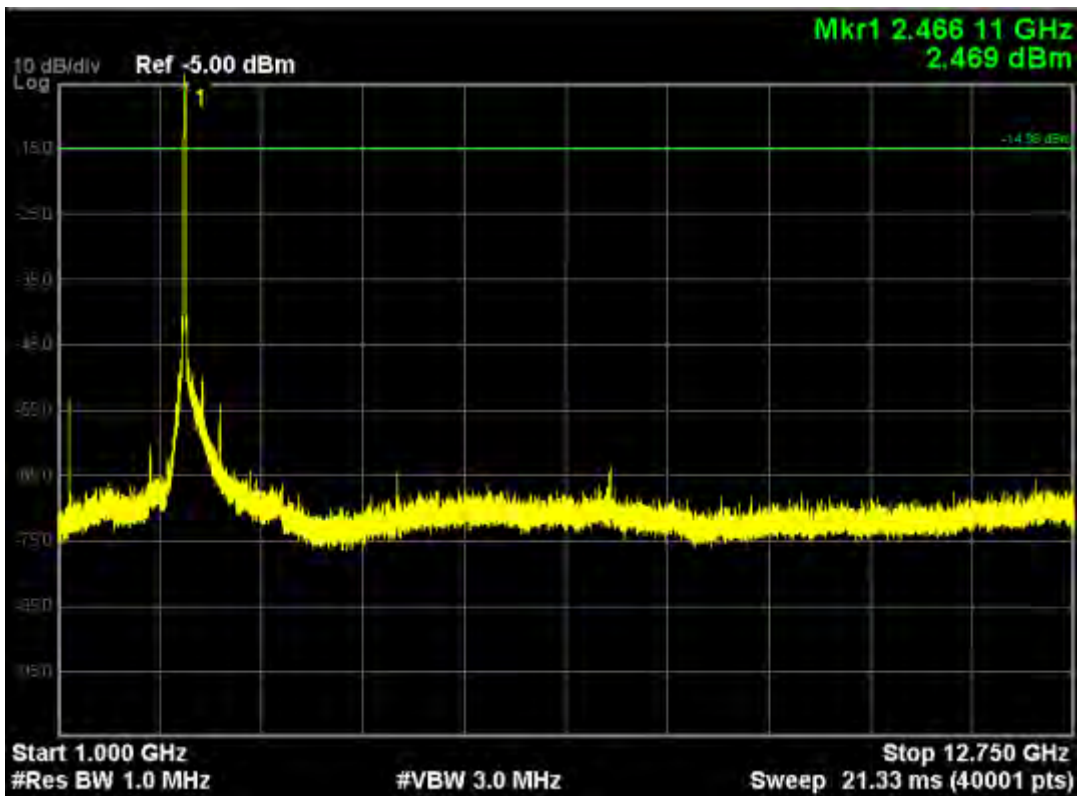
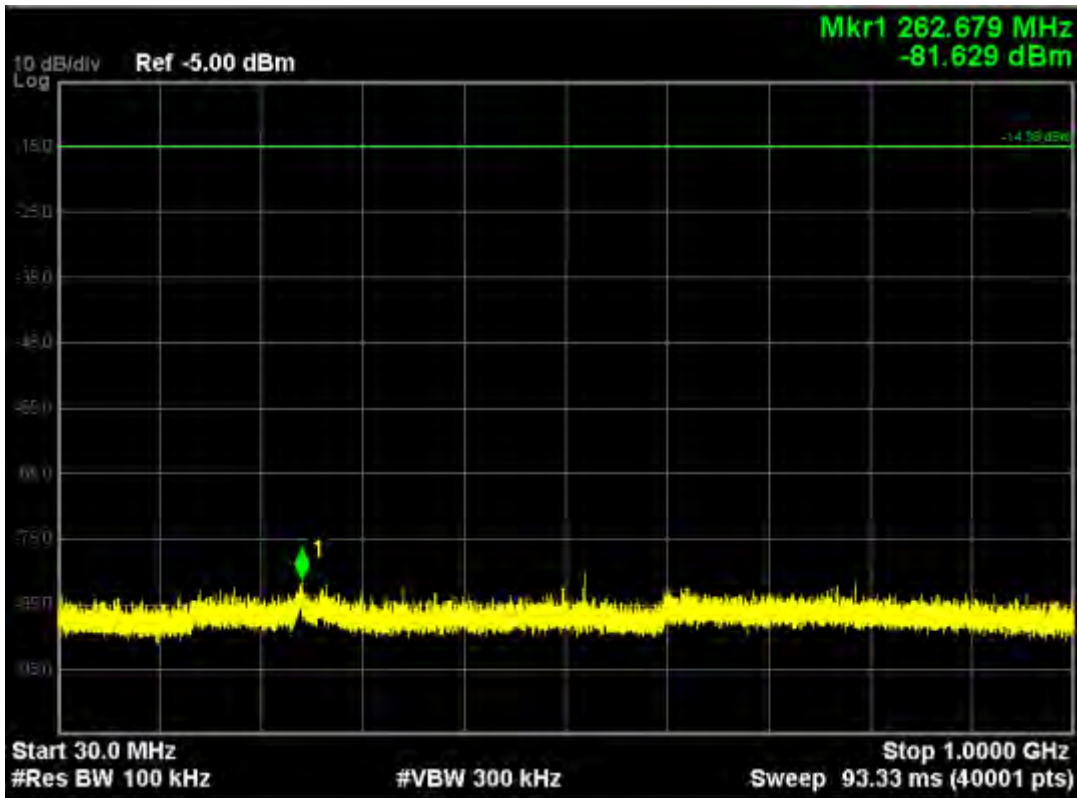


Note: The Mark1 point is carrier.

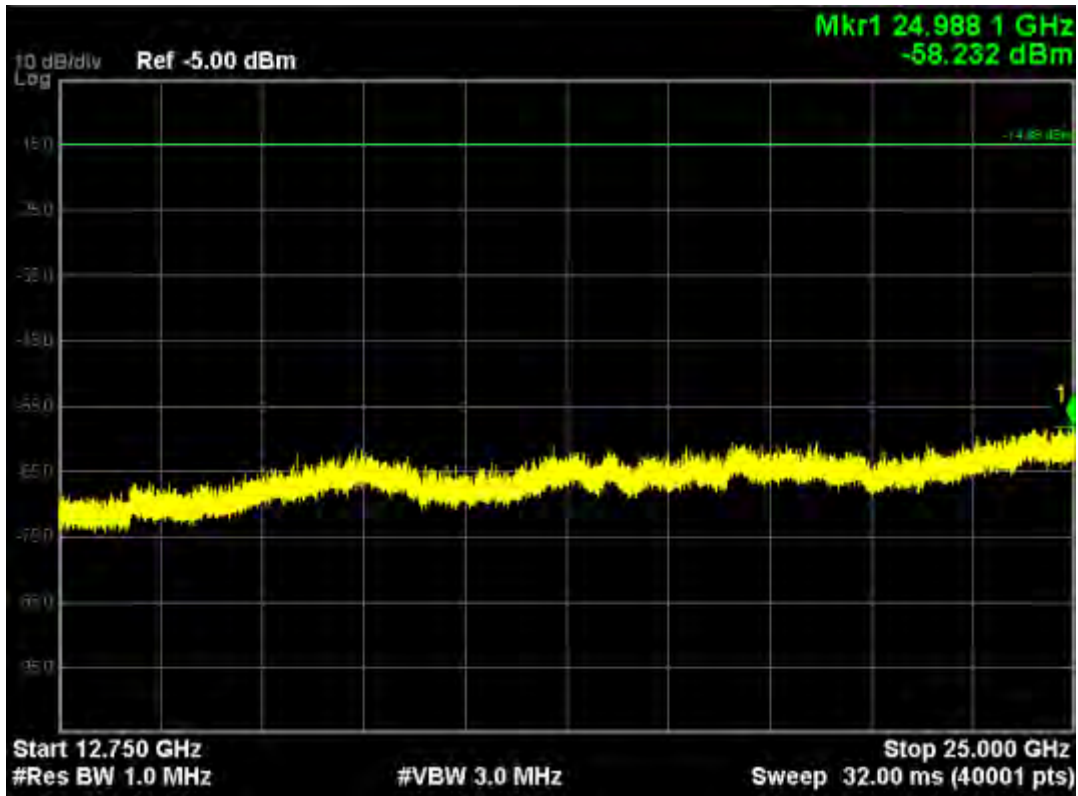


802.11b, traffic mode; Channel 11

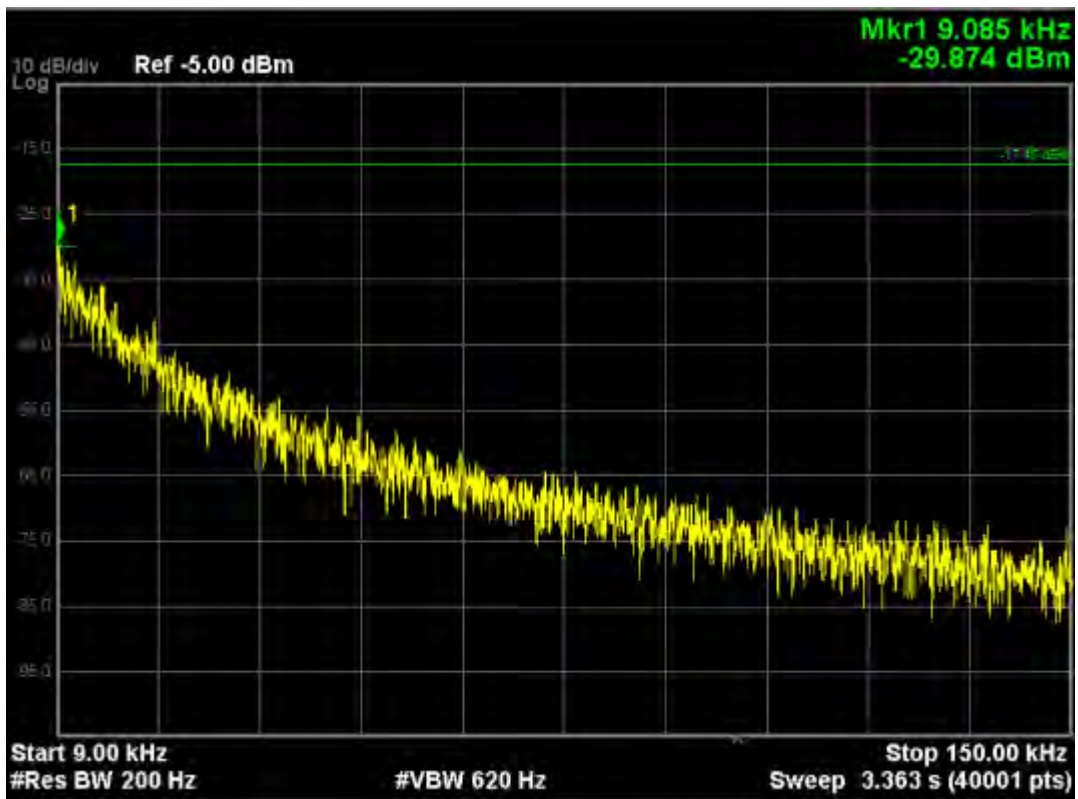


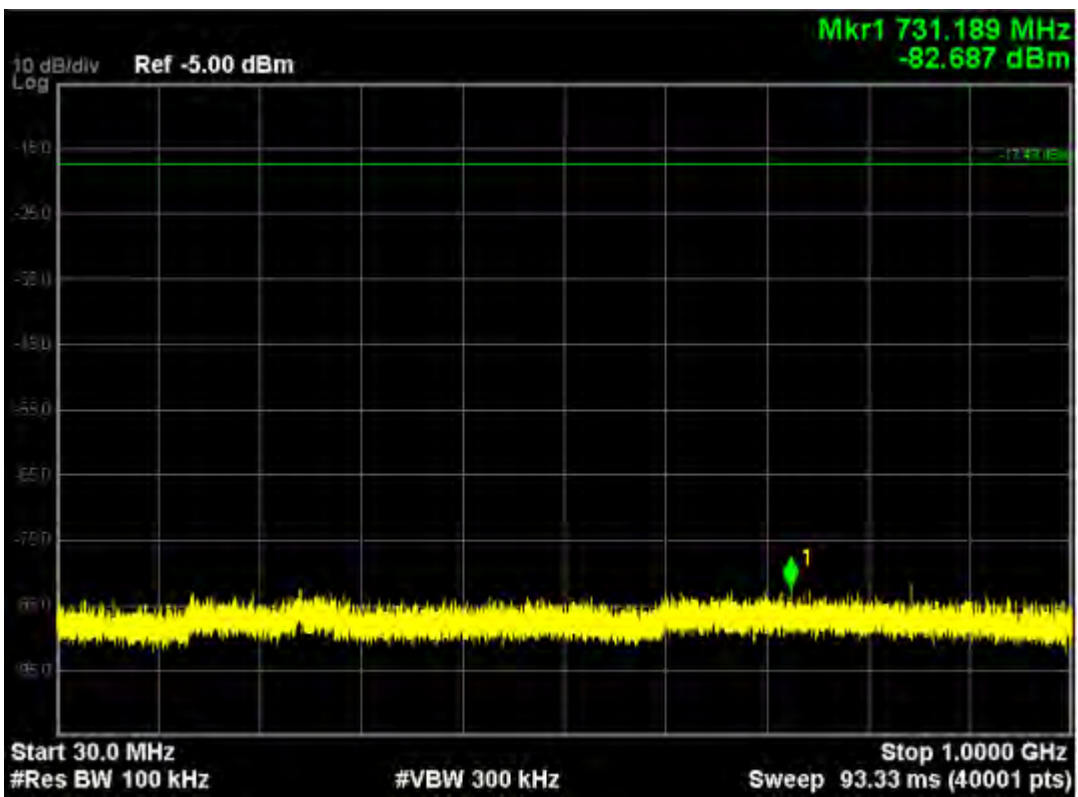
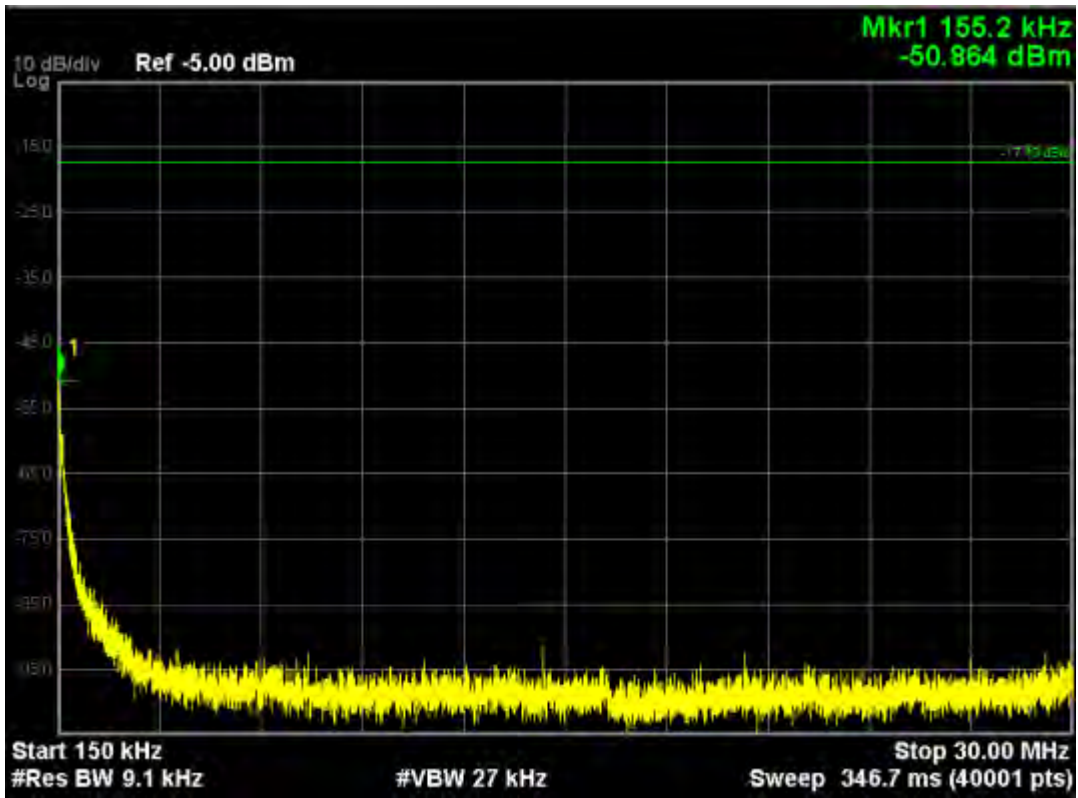


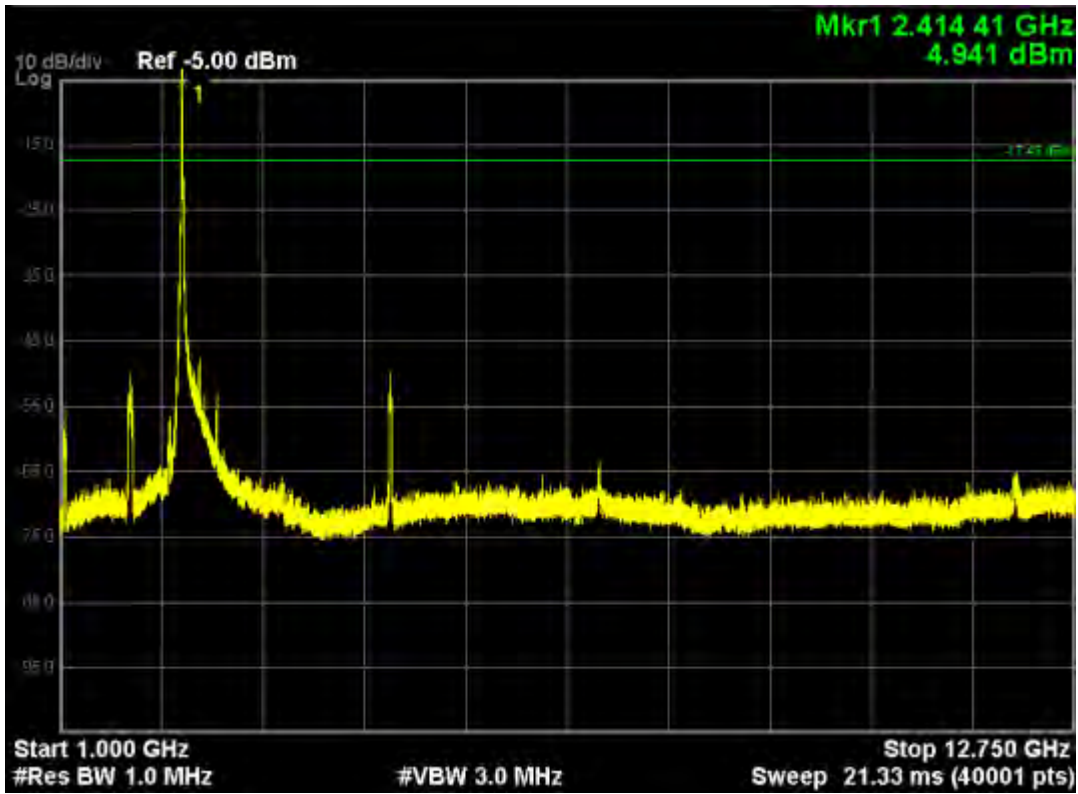
Note: The Mark1 point is carrier.



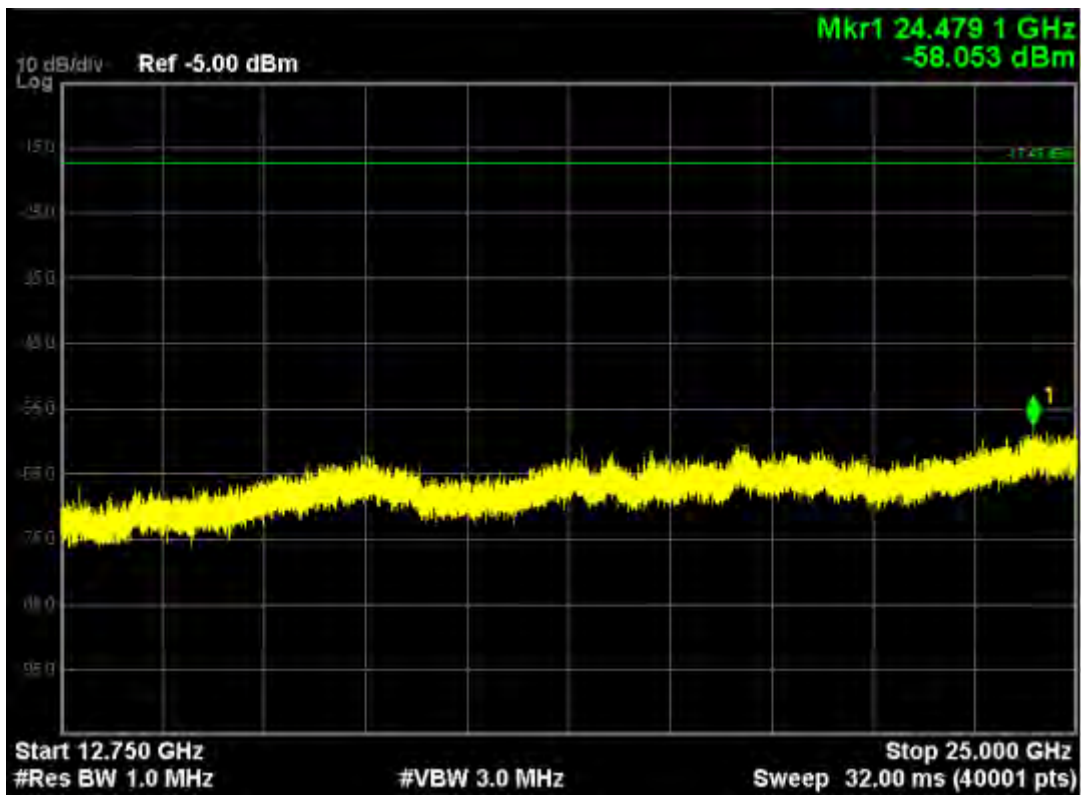
802.11g, traffic mode; Channel 1



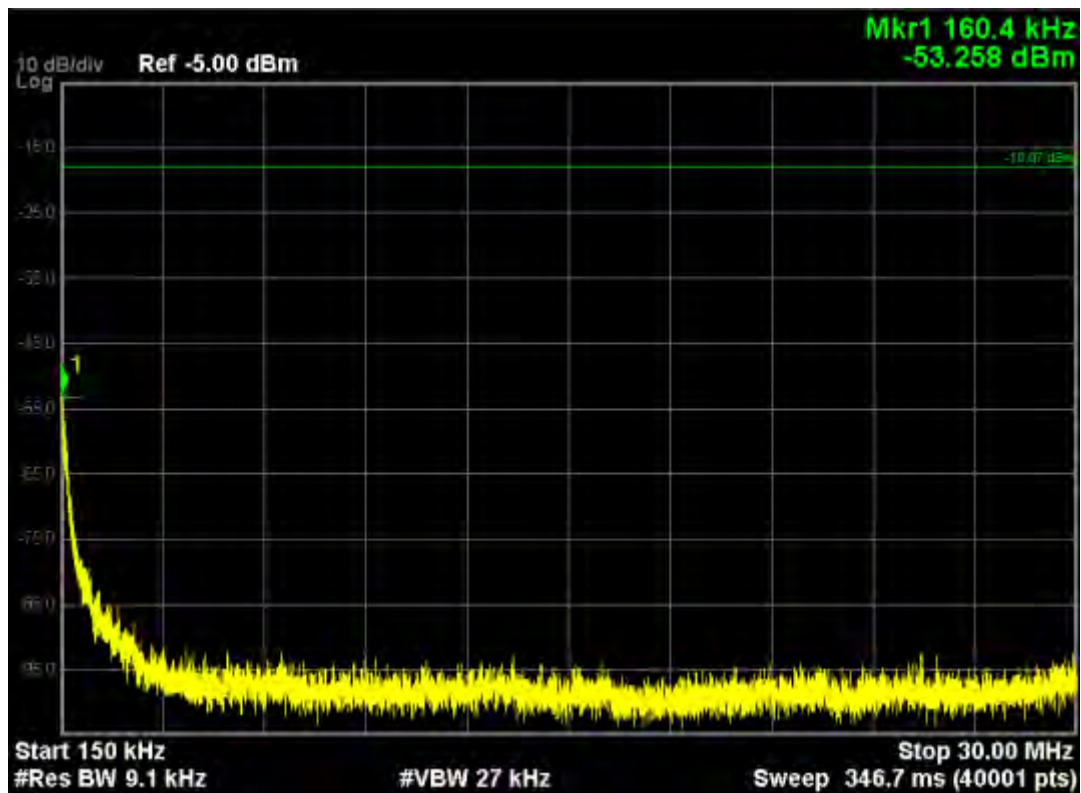
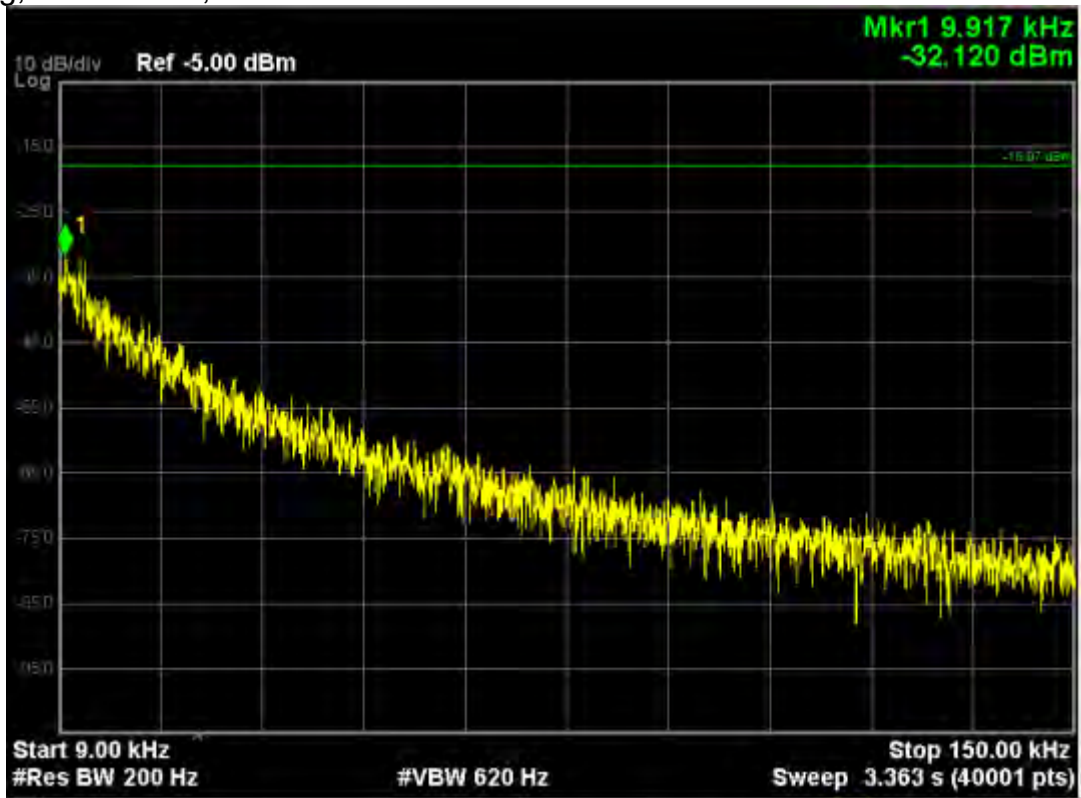


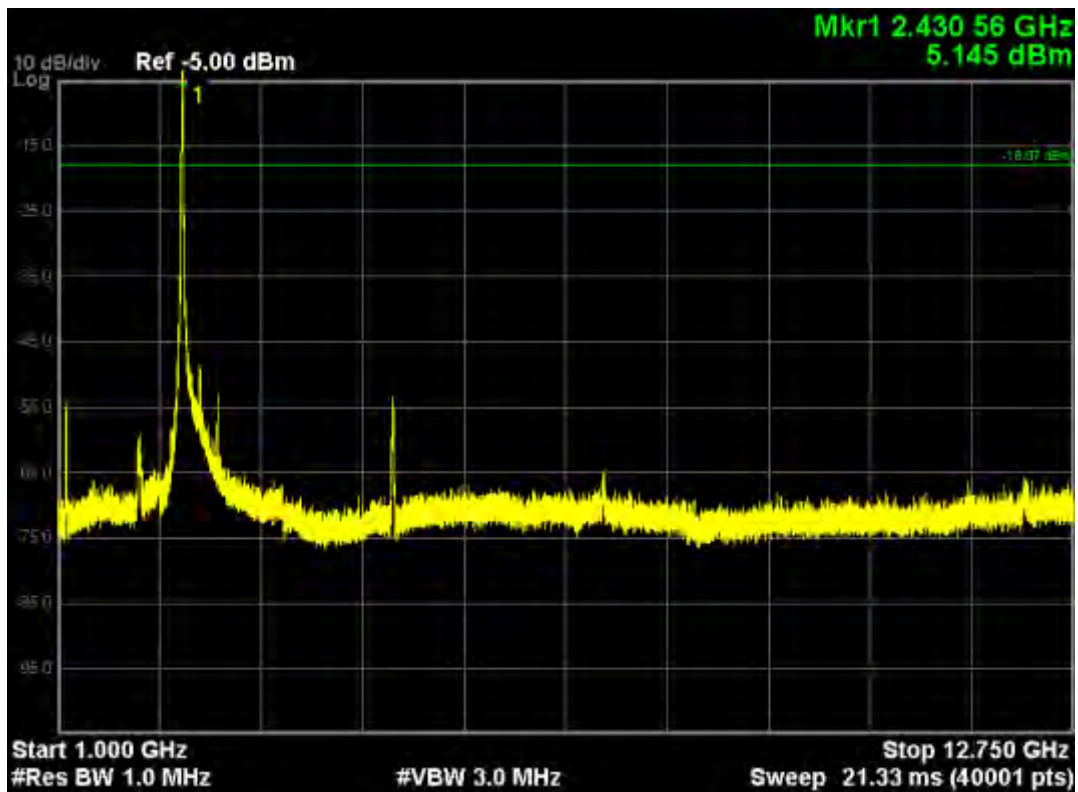
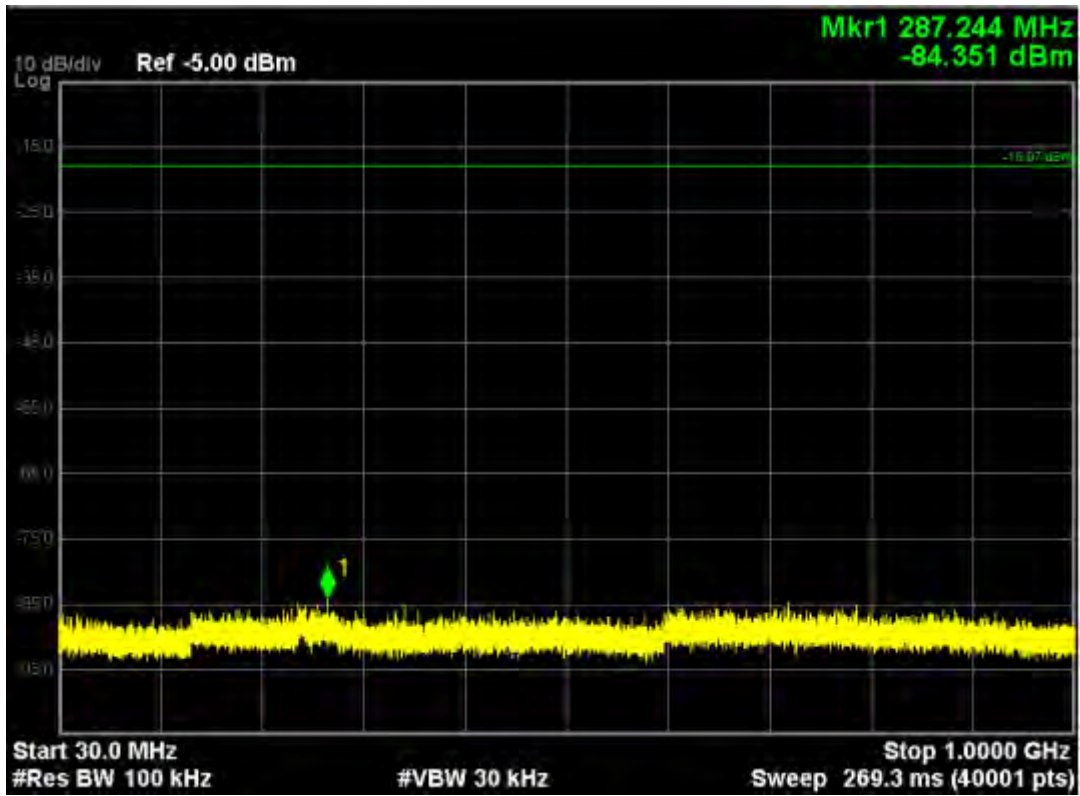


Note: The Mark1 point is carrier.

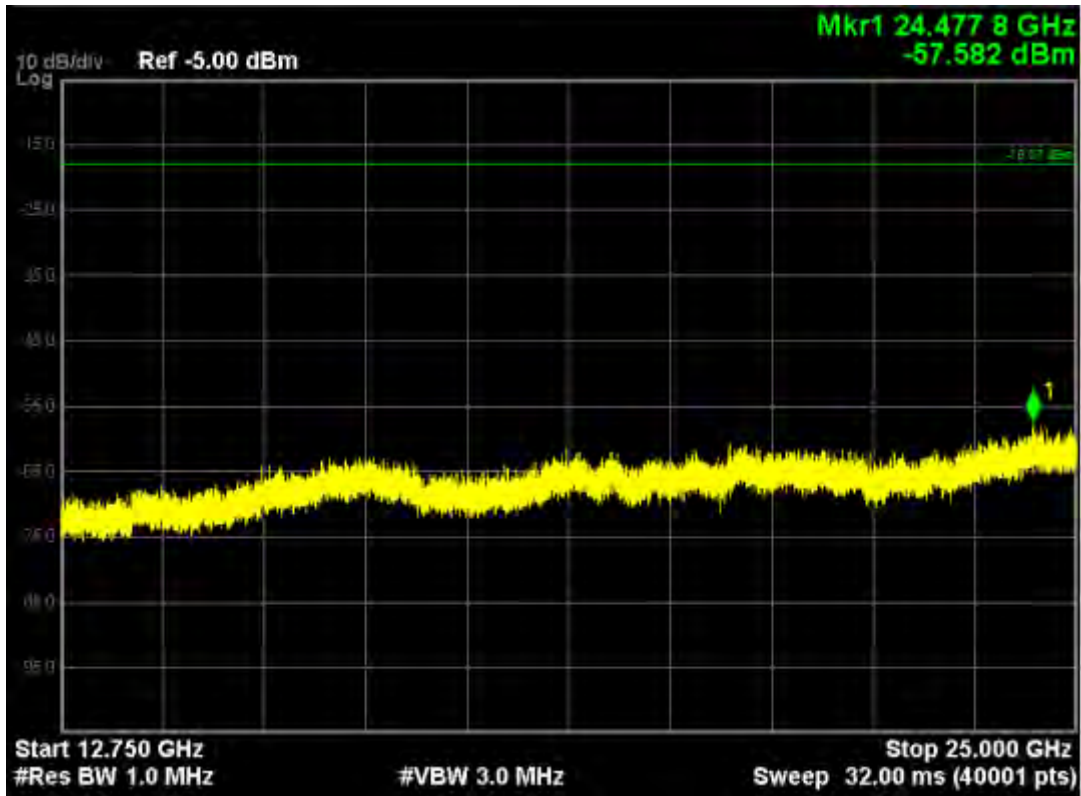


802.11g, traffic mode; Channel 6

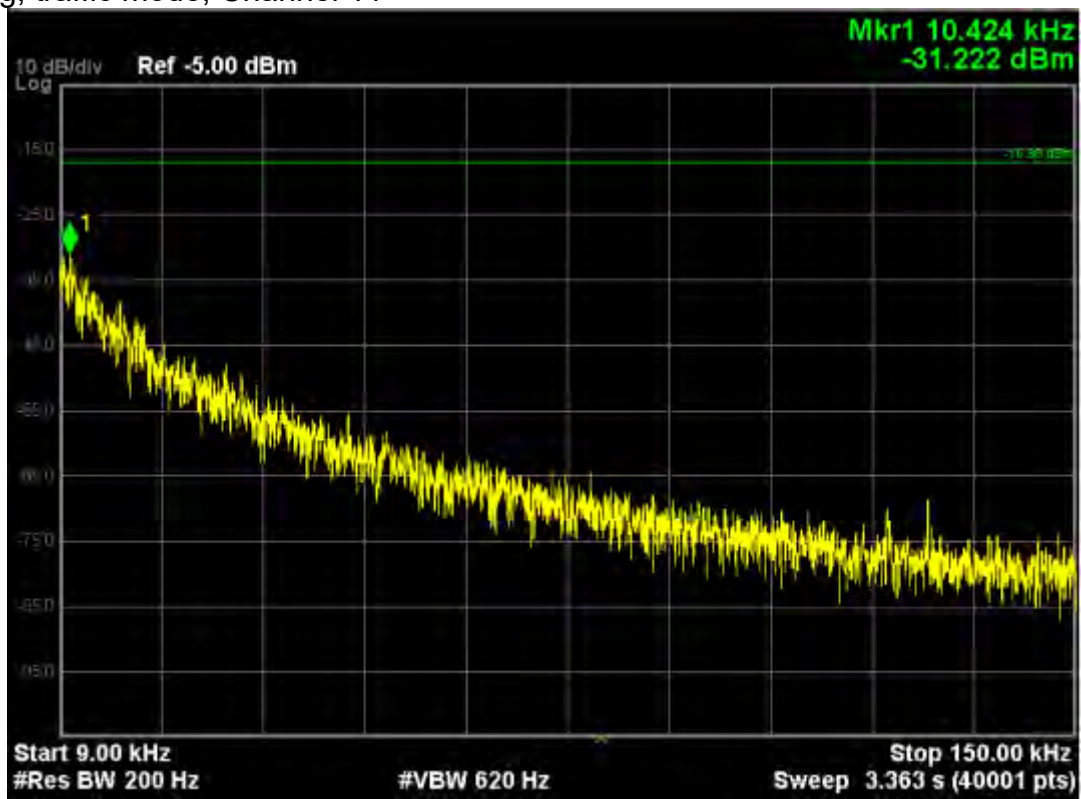


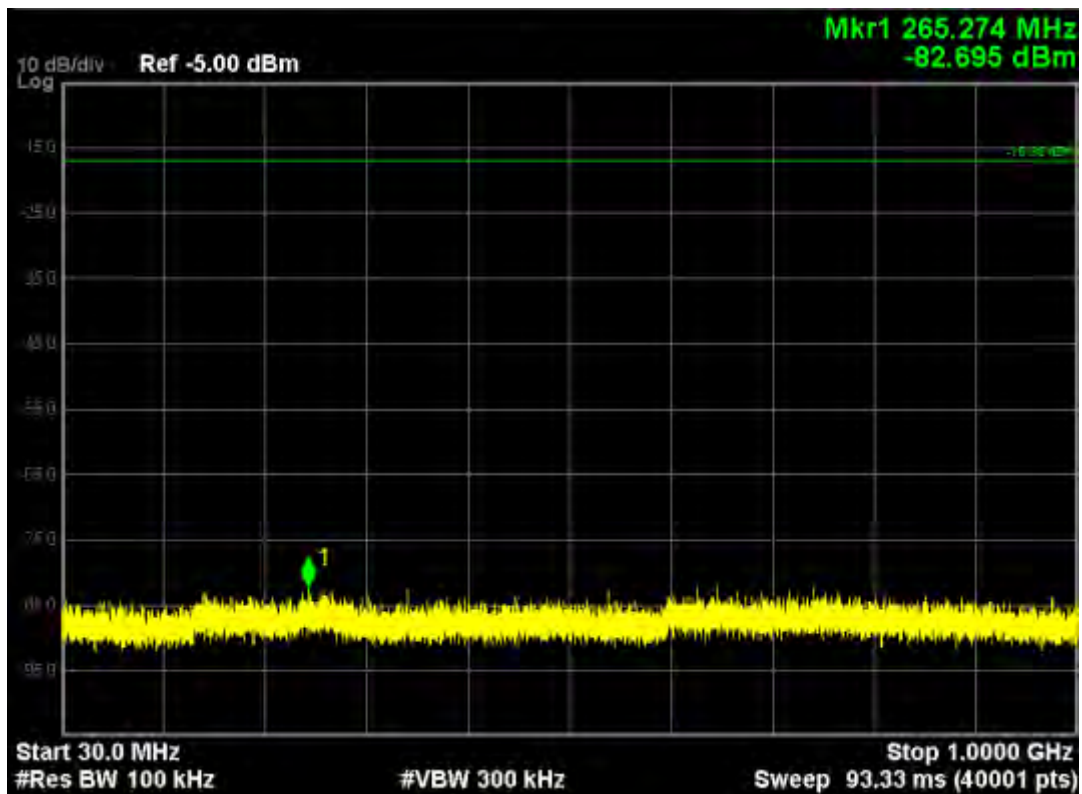
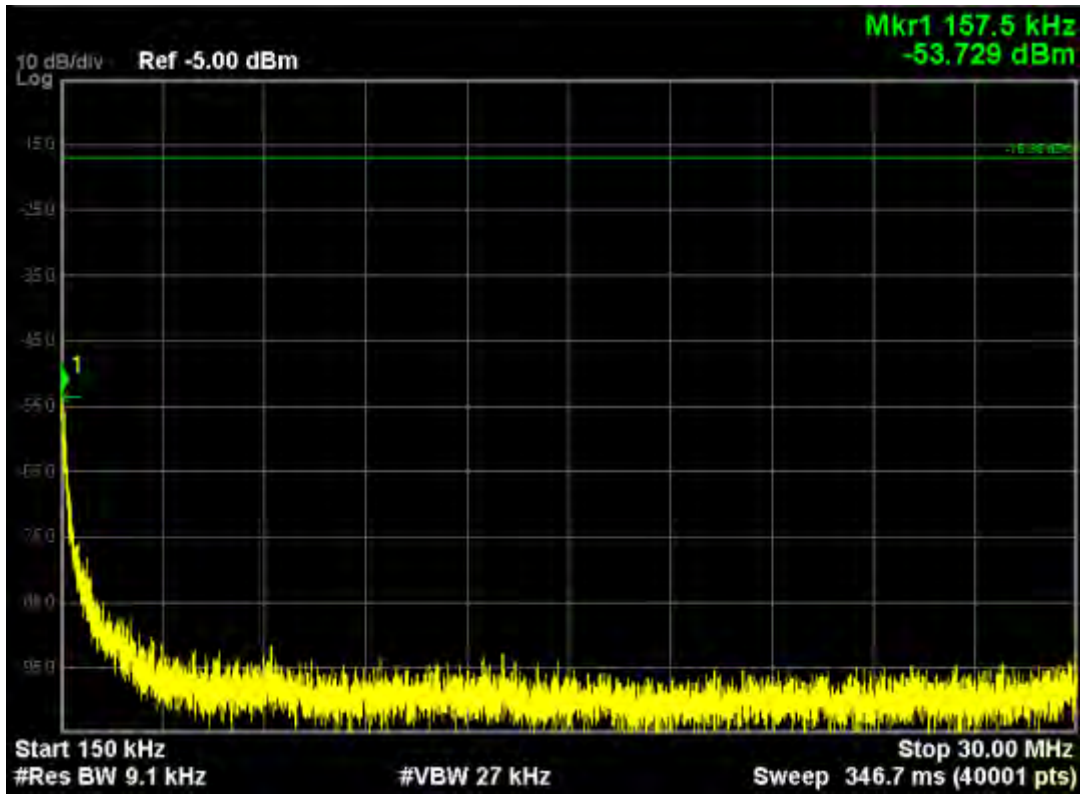


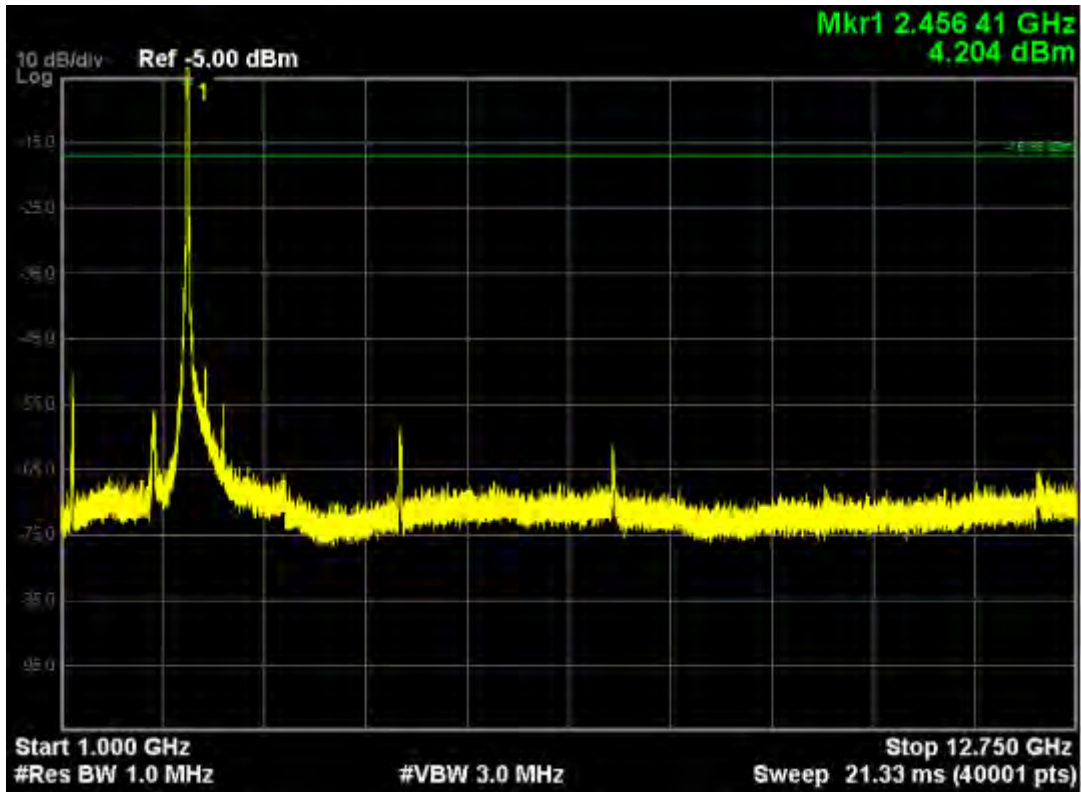
Note: The Mark1 point is carrier.



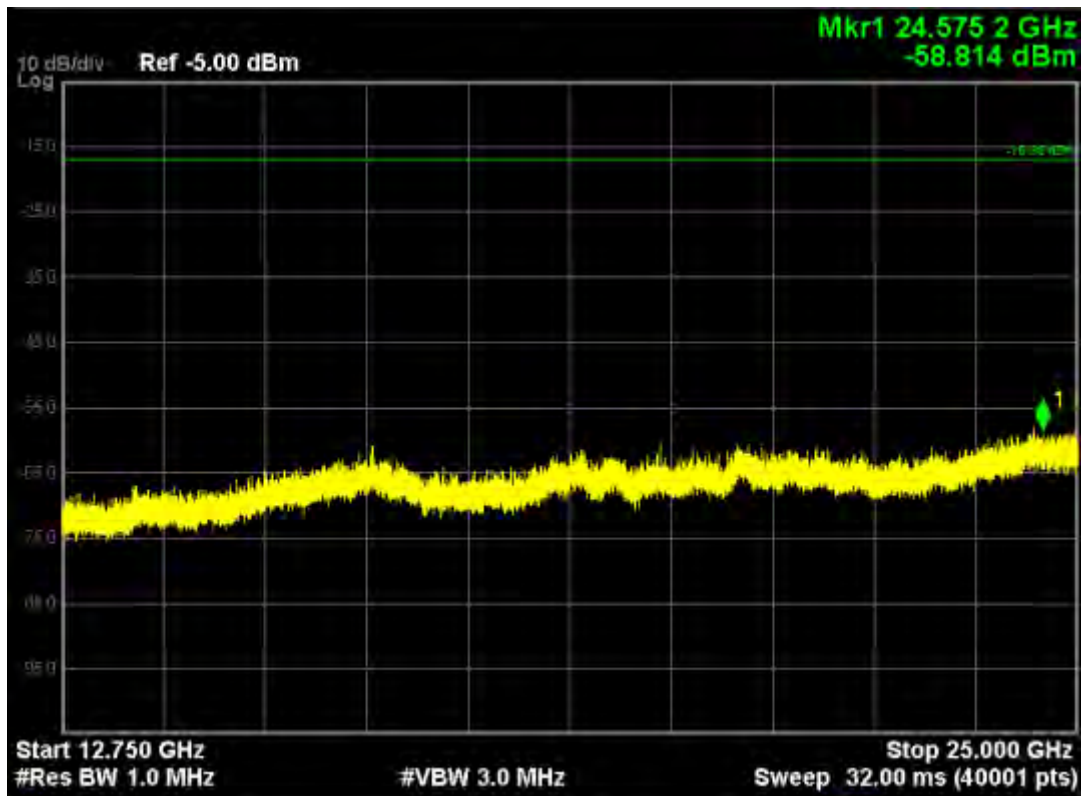
802.11g, traffic mode; Channel 11



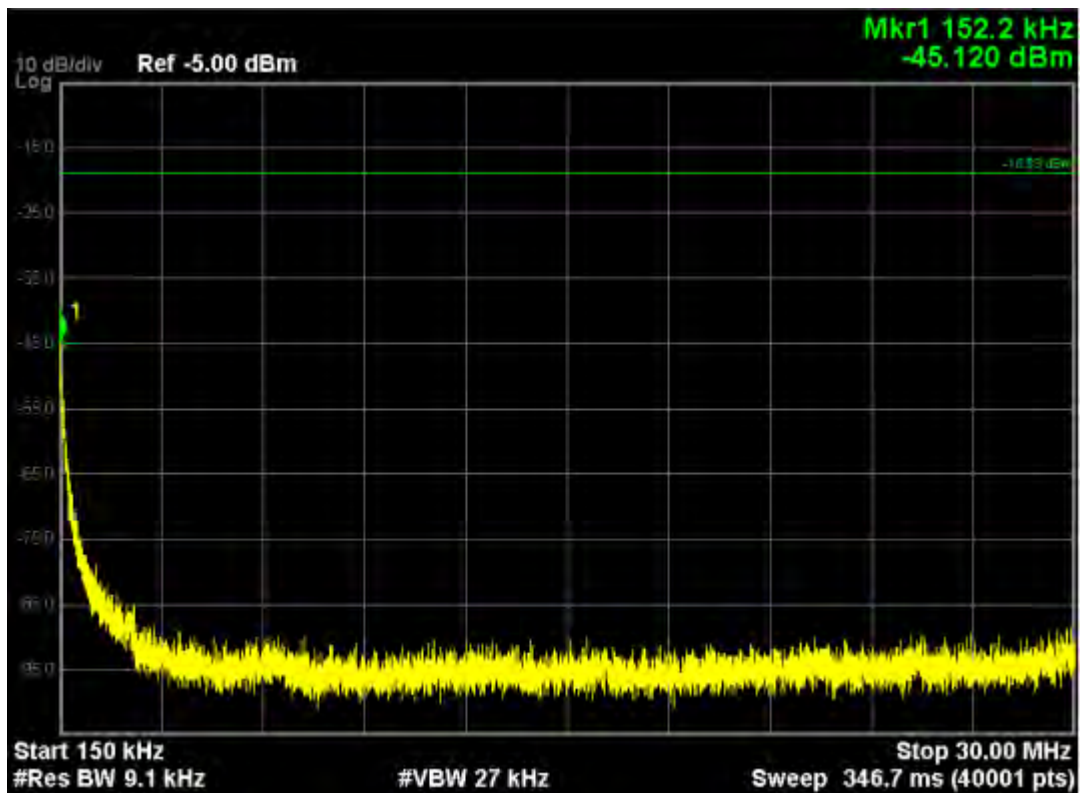
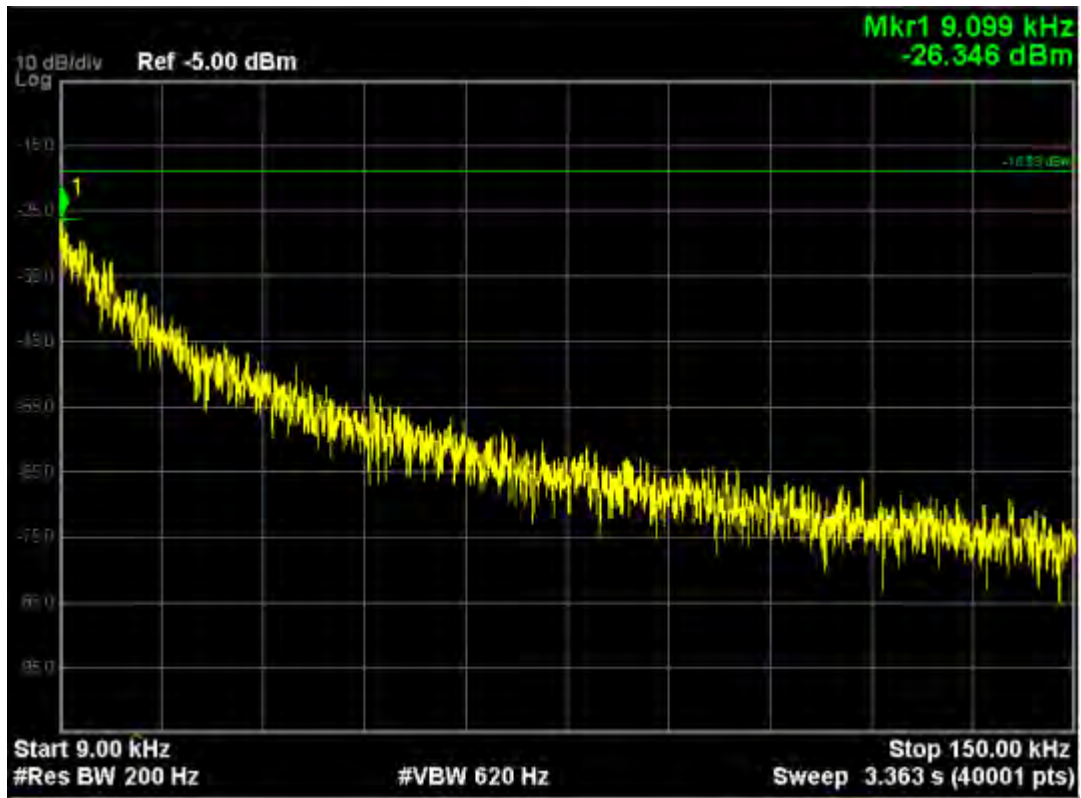


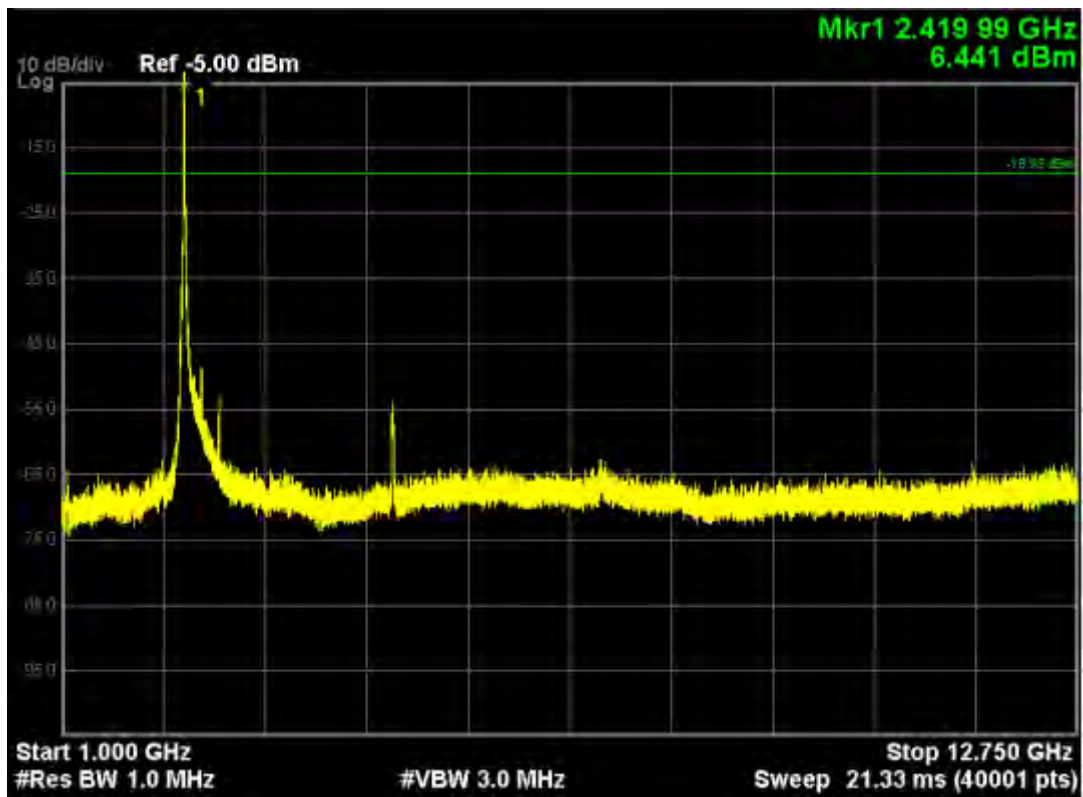
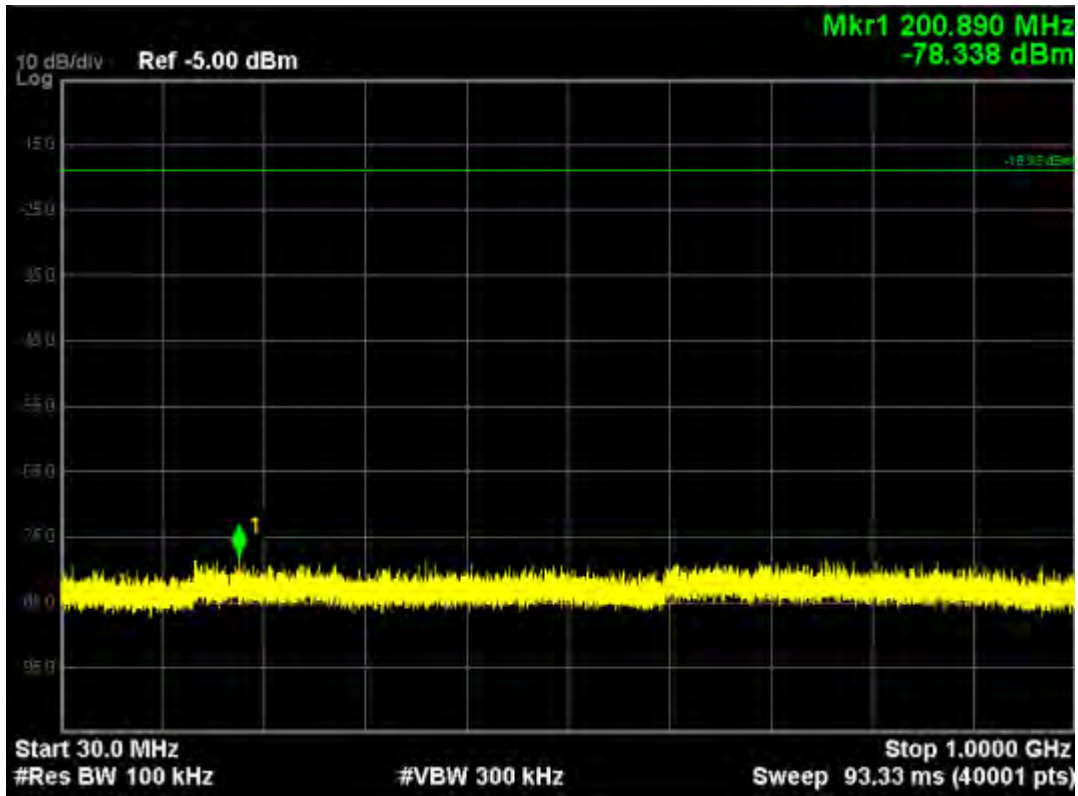


Note: The Mark1 point is carrier

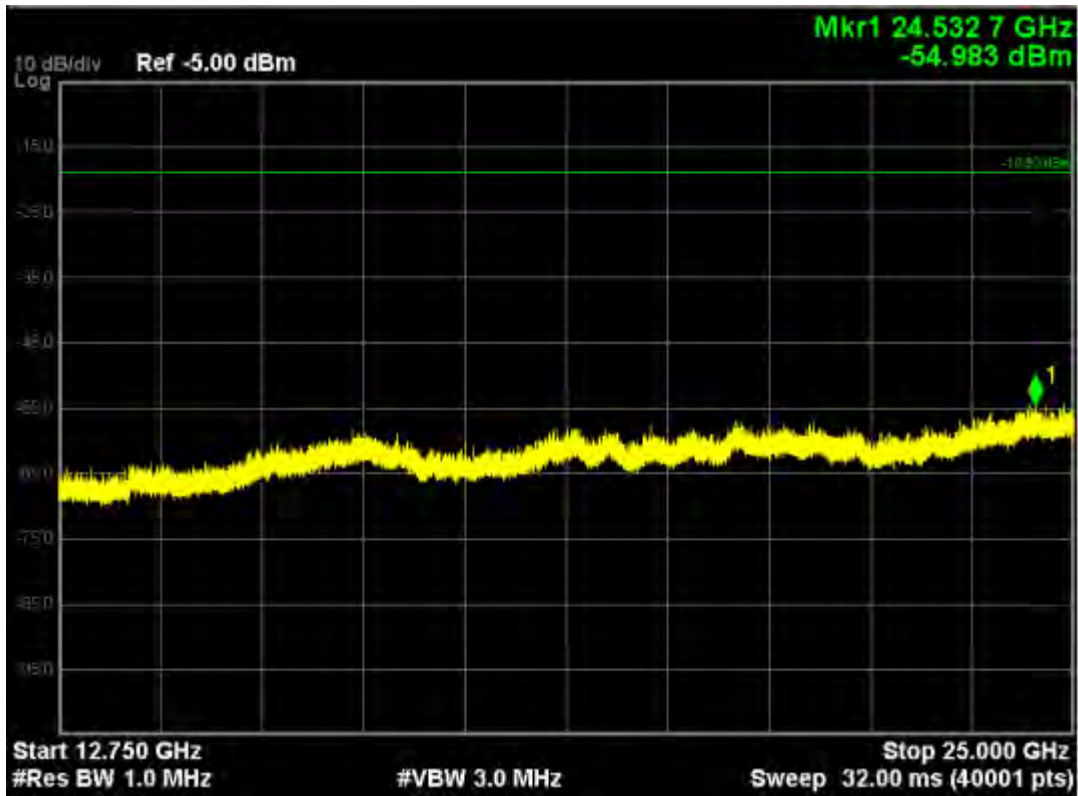


802.11n20, traffic mode; Channel 1;

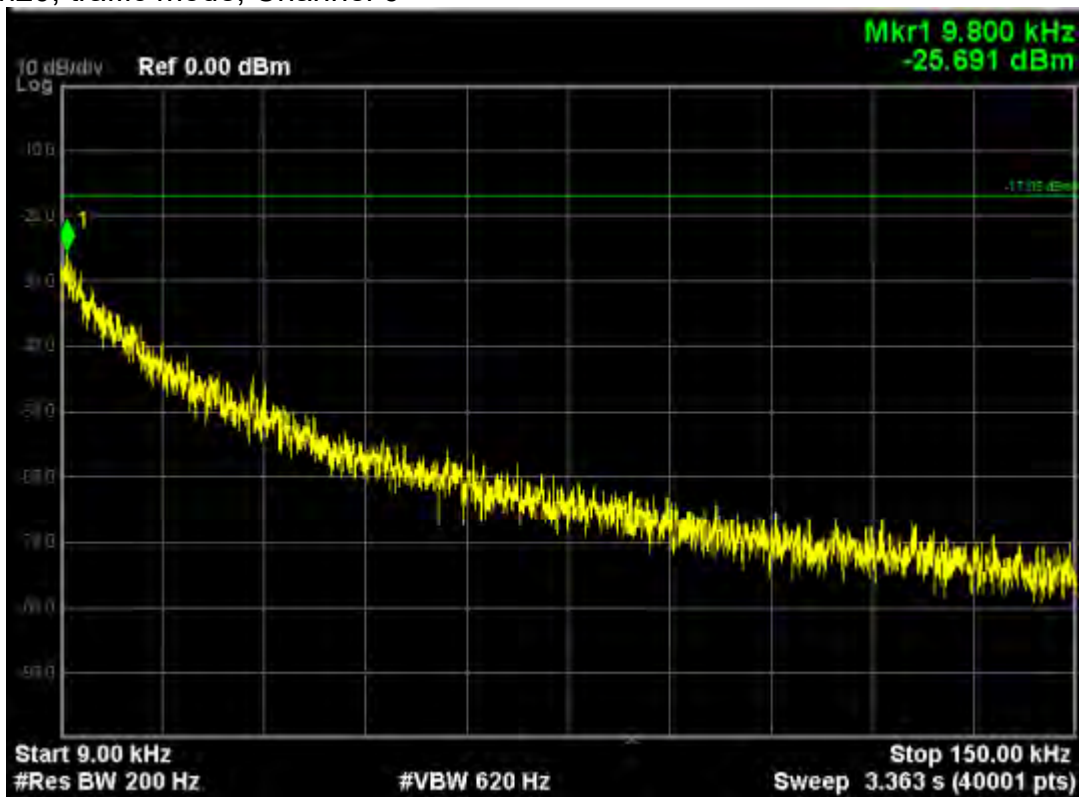


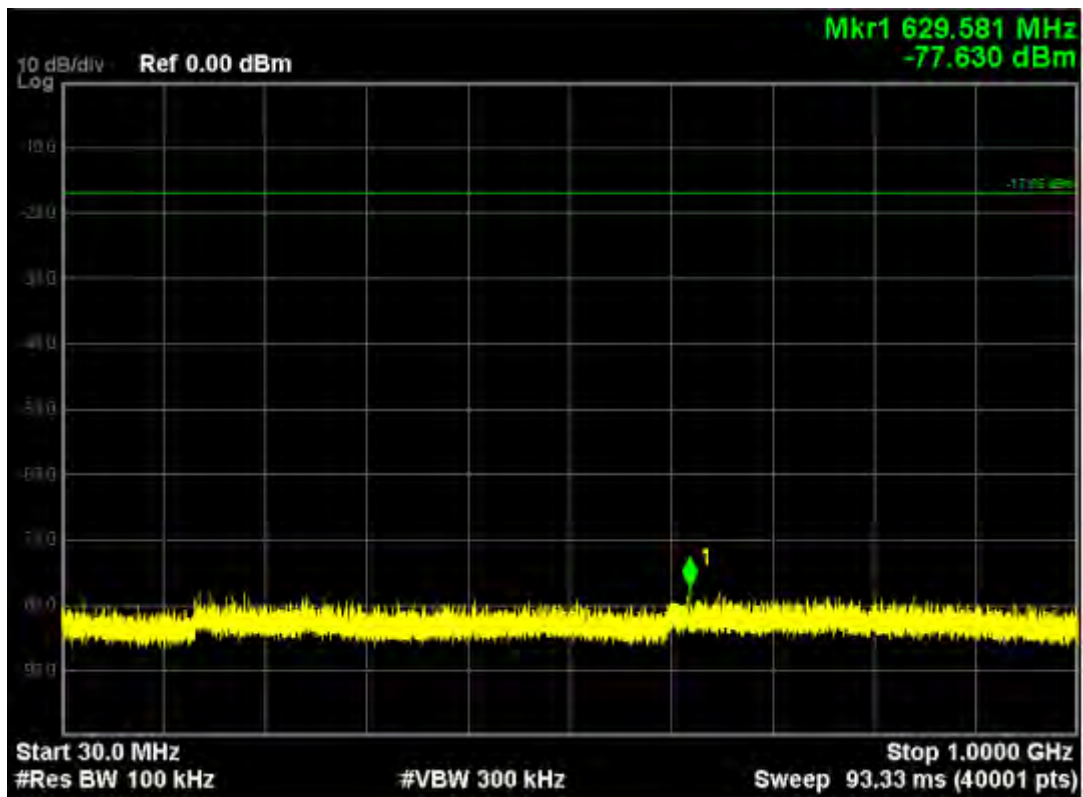
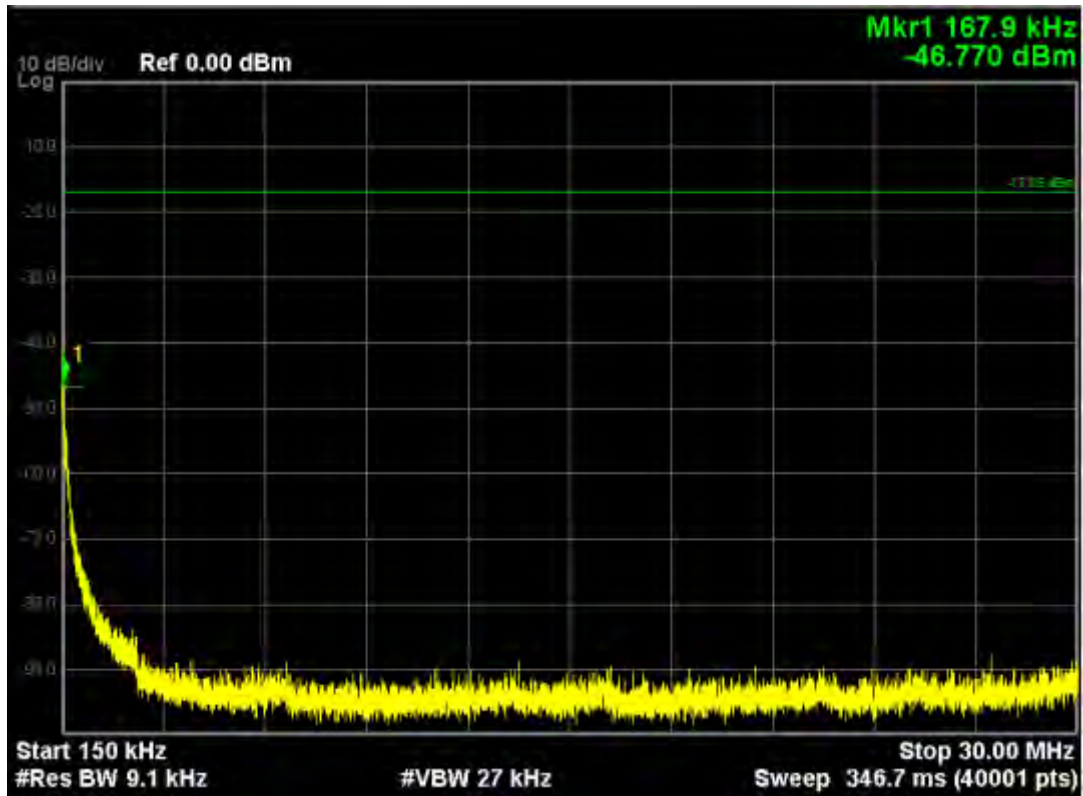


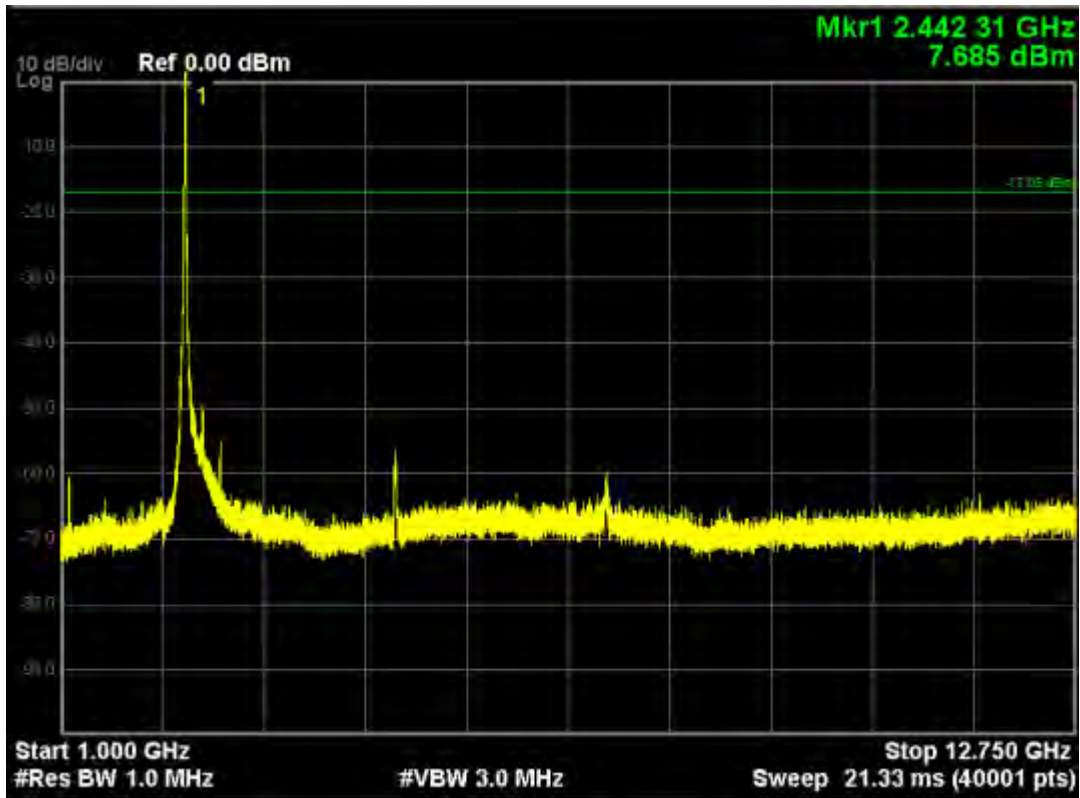
Note: The Mark1 point is carrier.



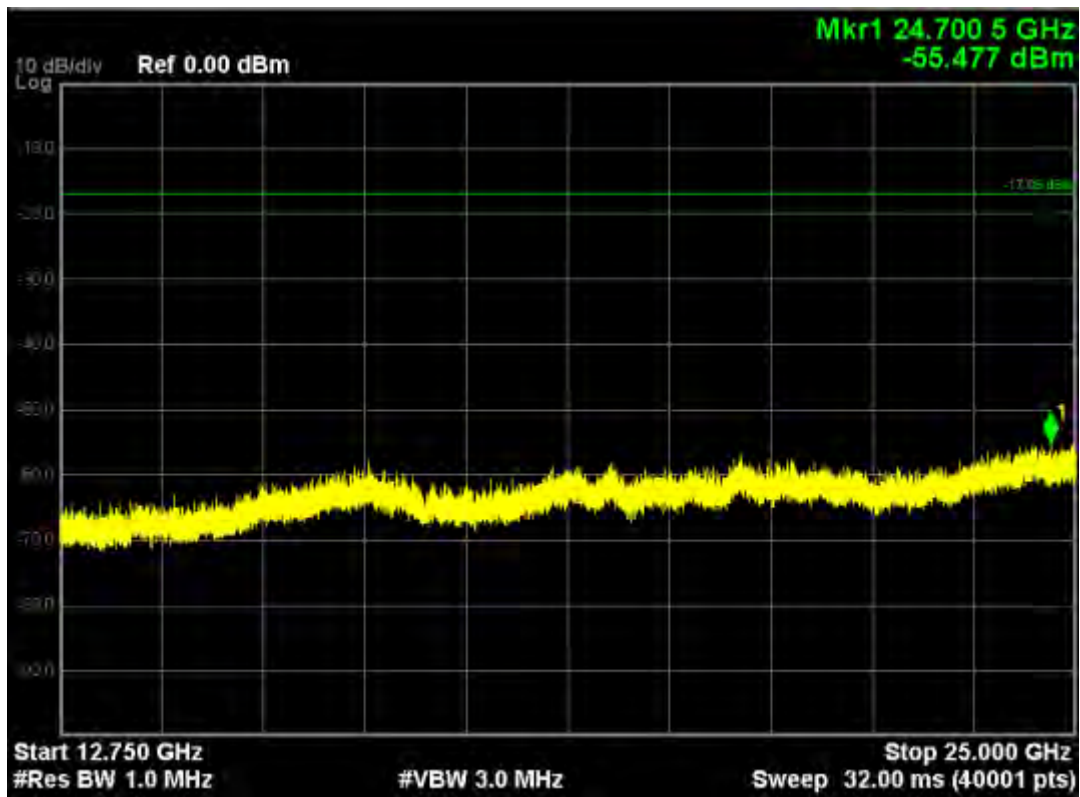
802.11n20, traffic mode; Channel 6



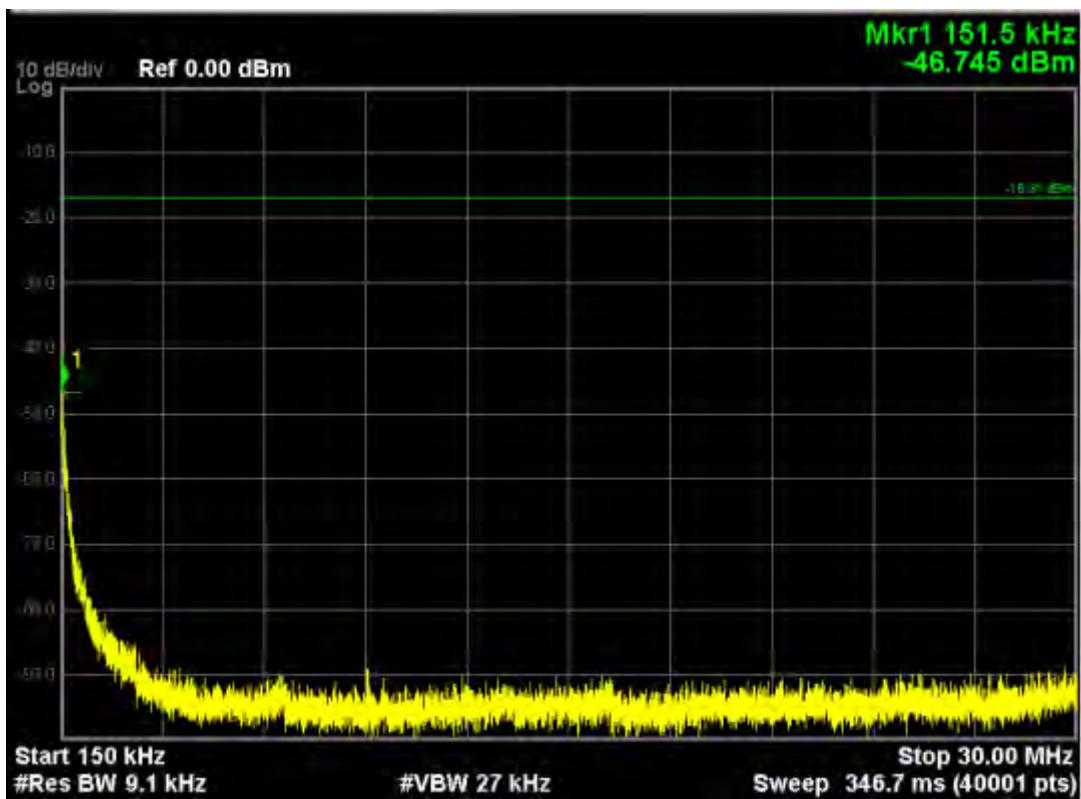
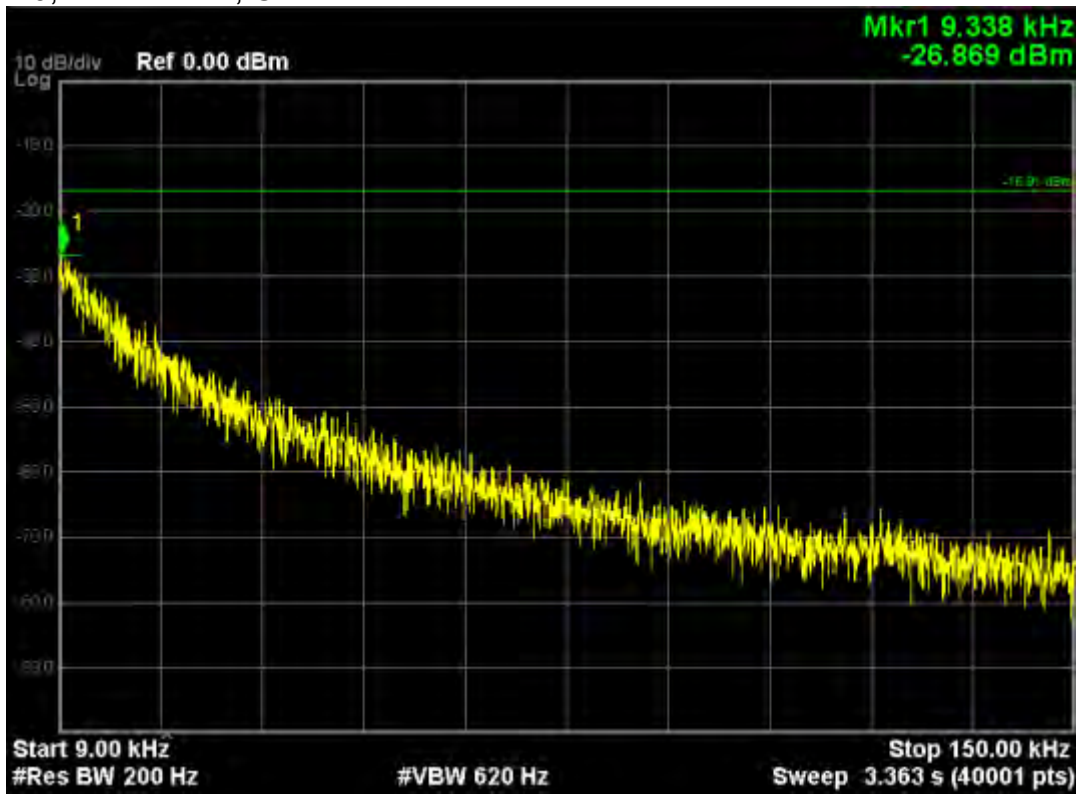


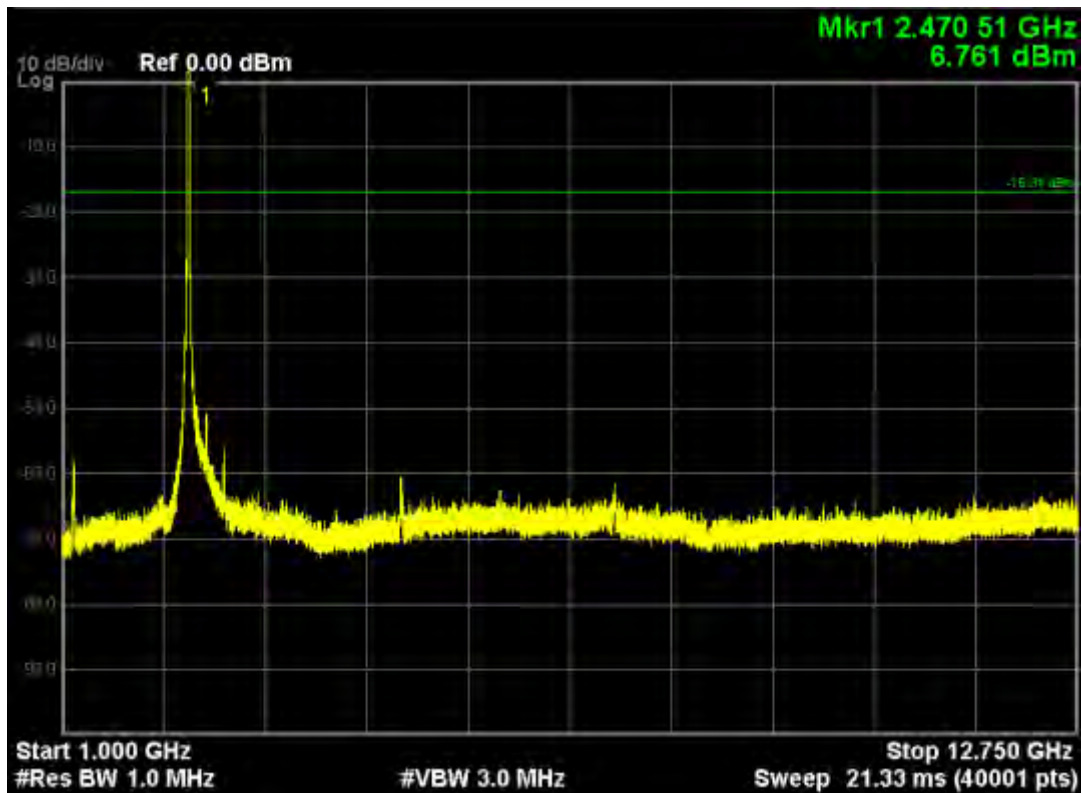
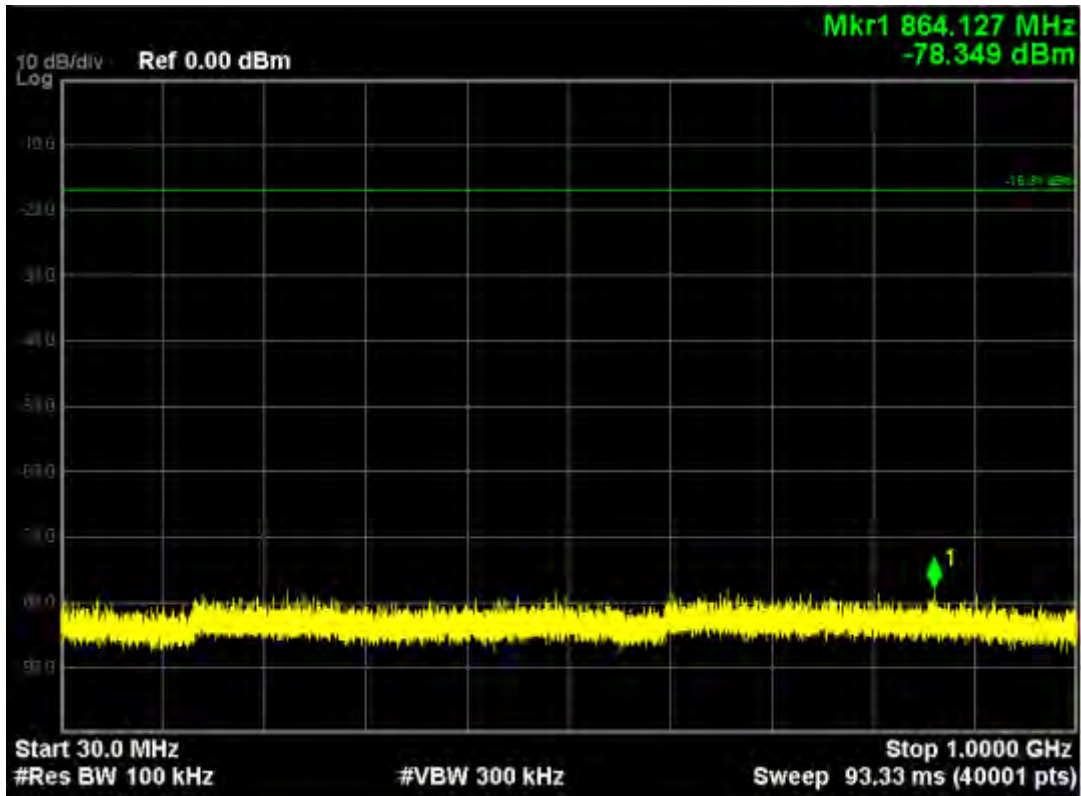


Note: The Mark1 point is carrier.

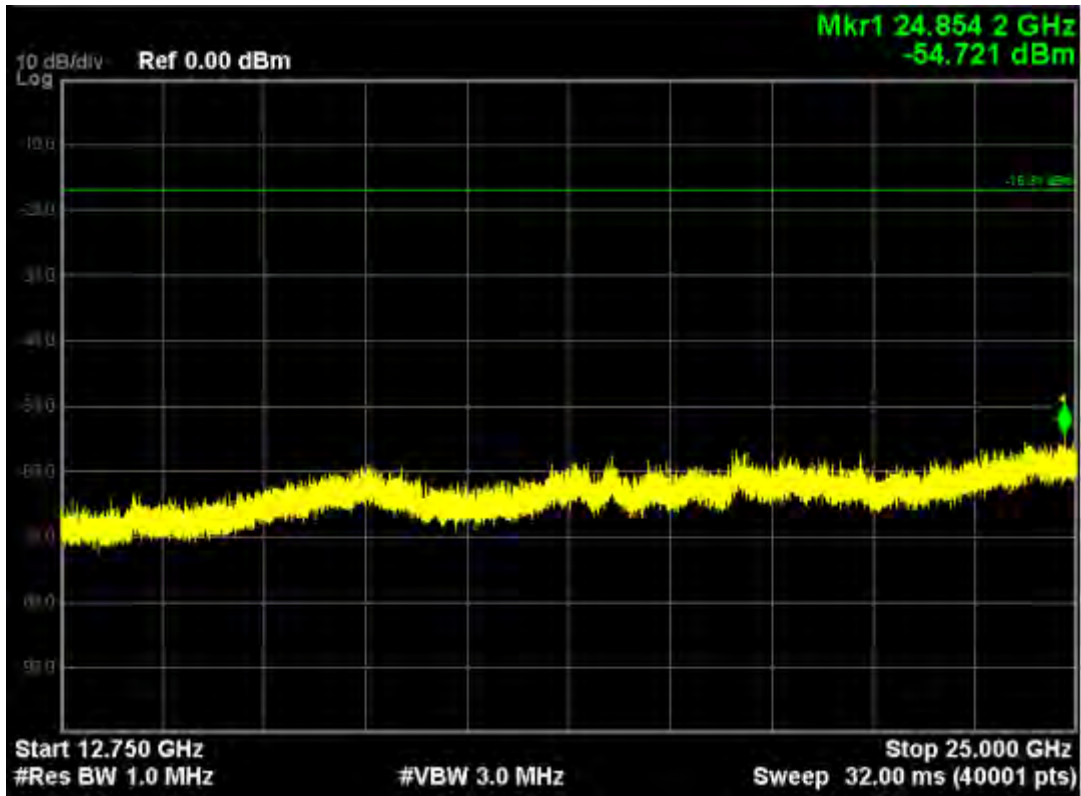


802.11n20, traffic mode; Channel 11

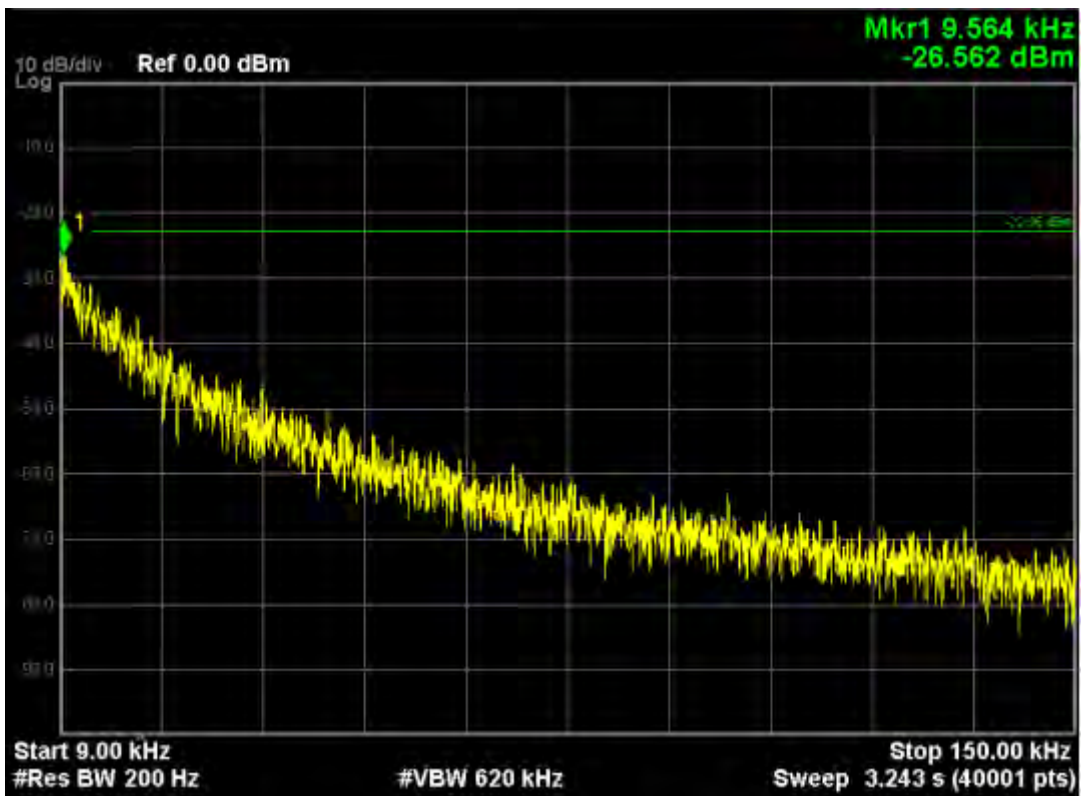


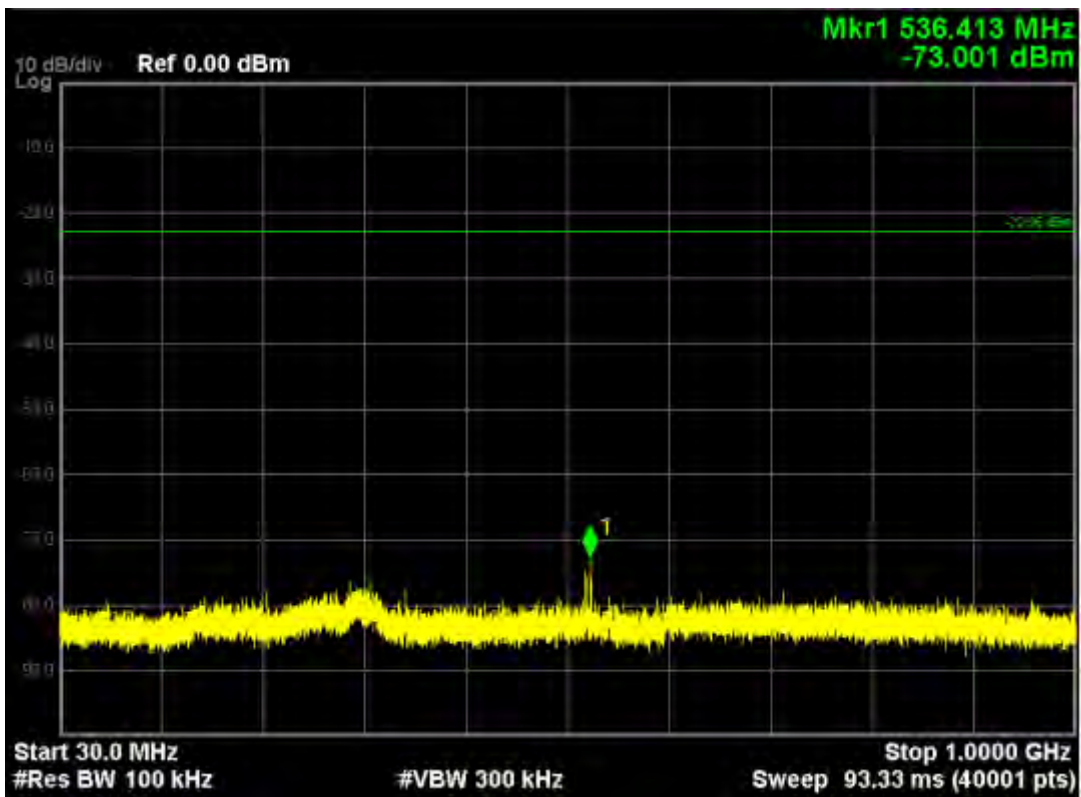
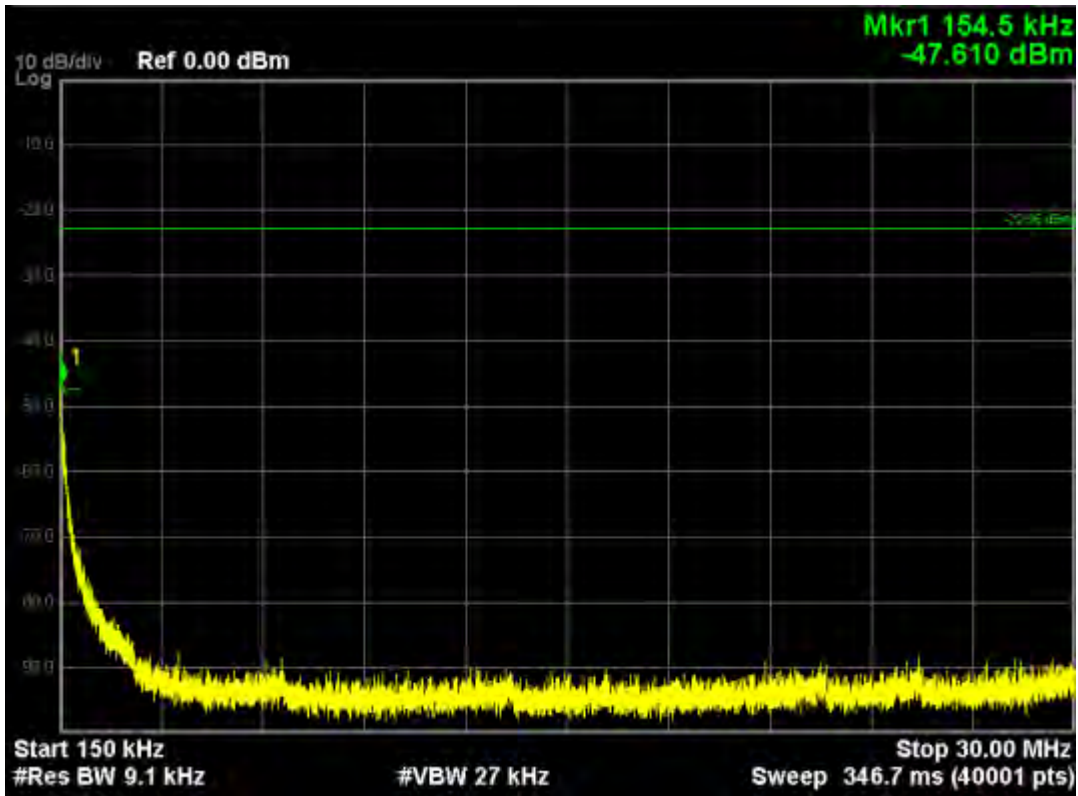


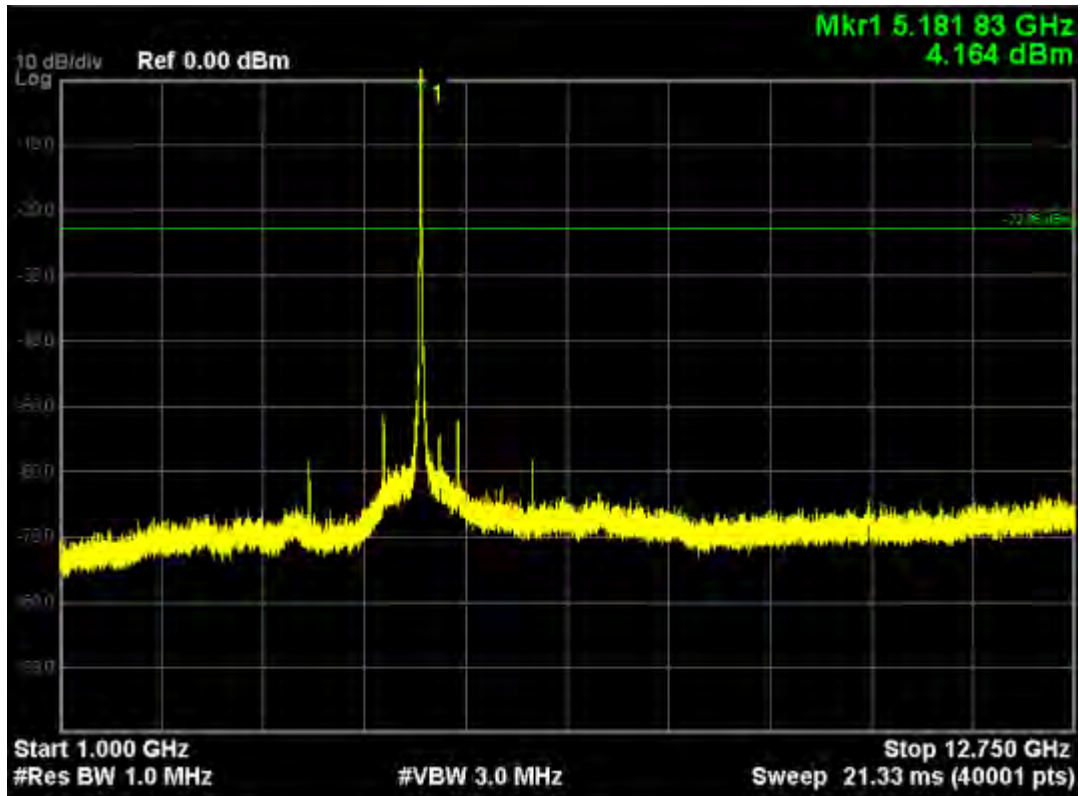
Note: The Mark1 point is carrier.



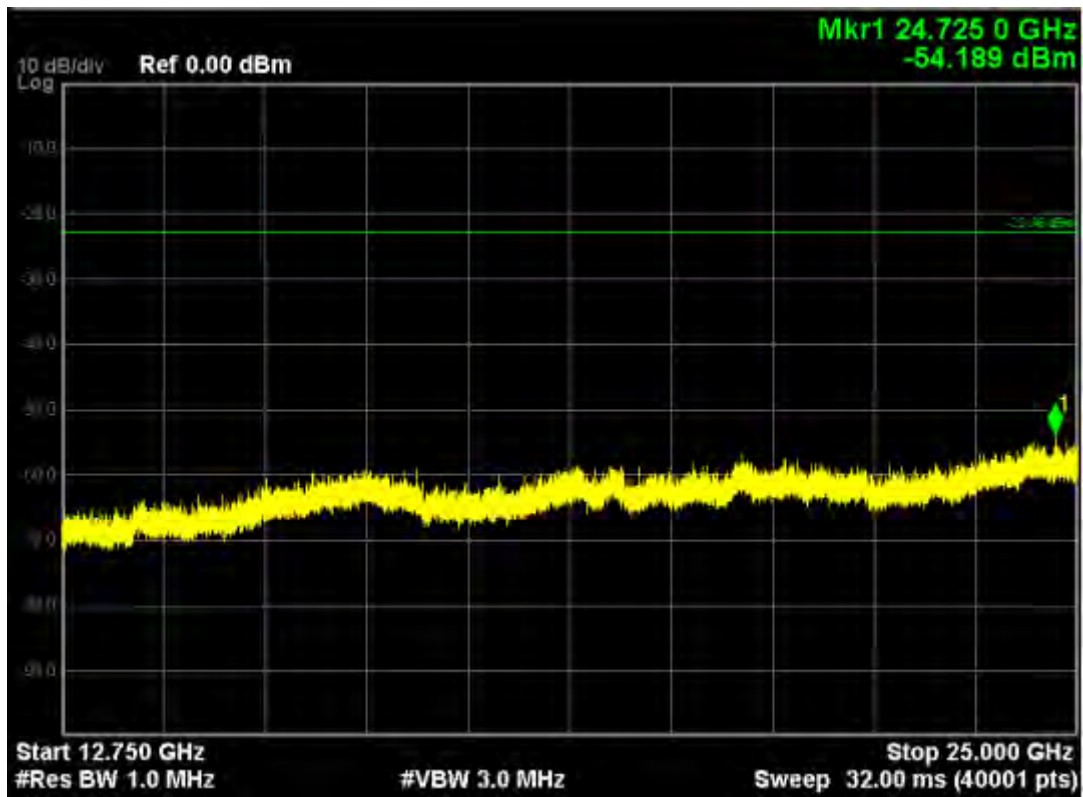
WIFI 5G(5150MHZ-5250MHZ)
802.11a, traffic mode; Channel 36



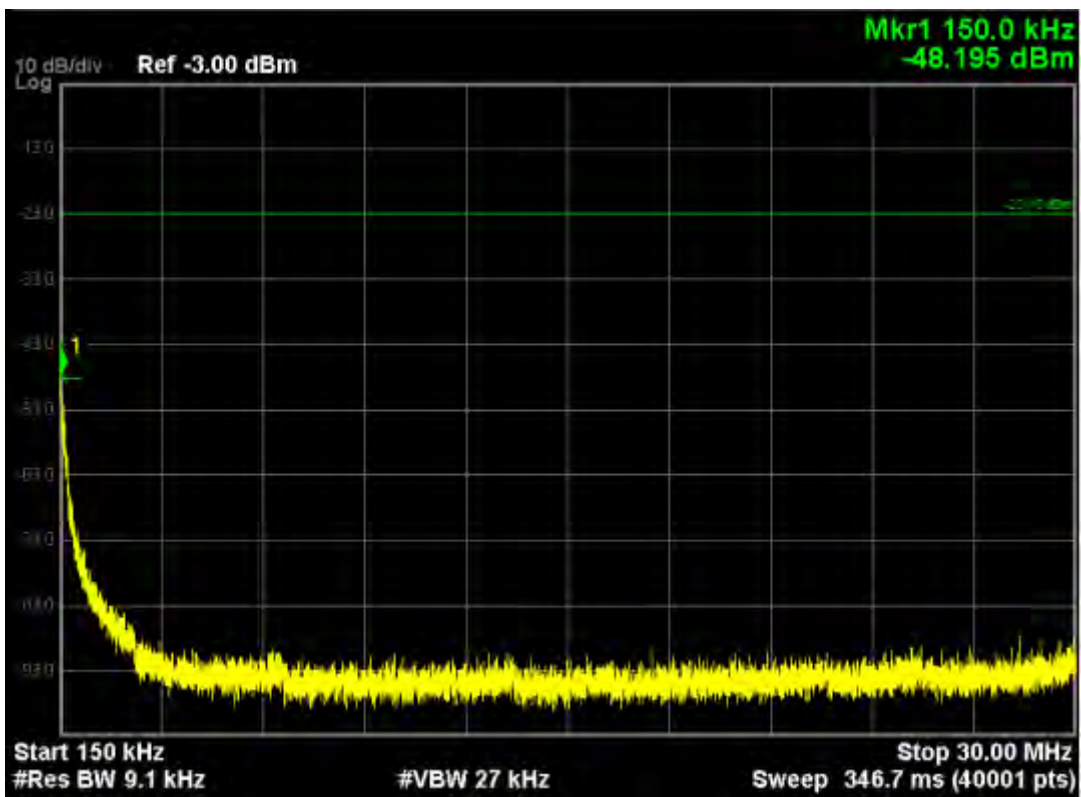
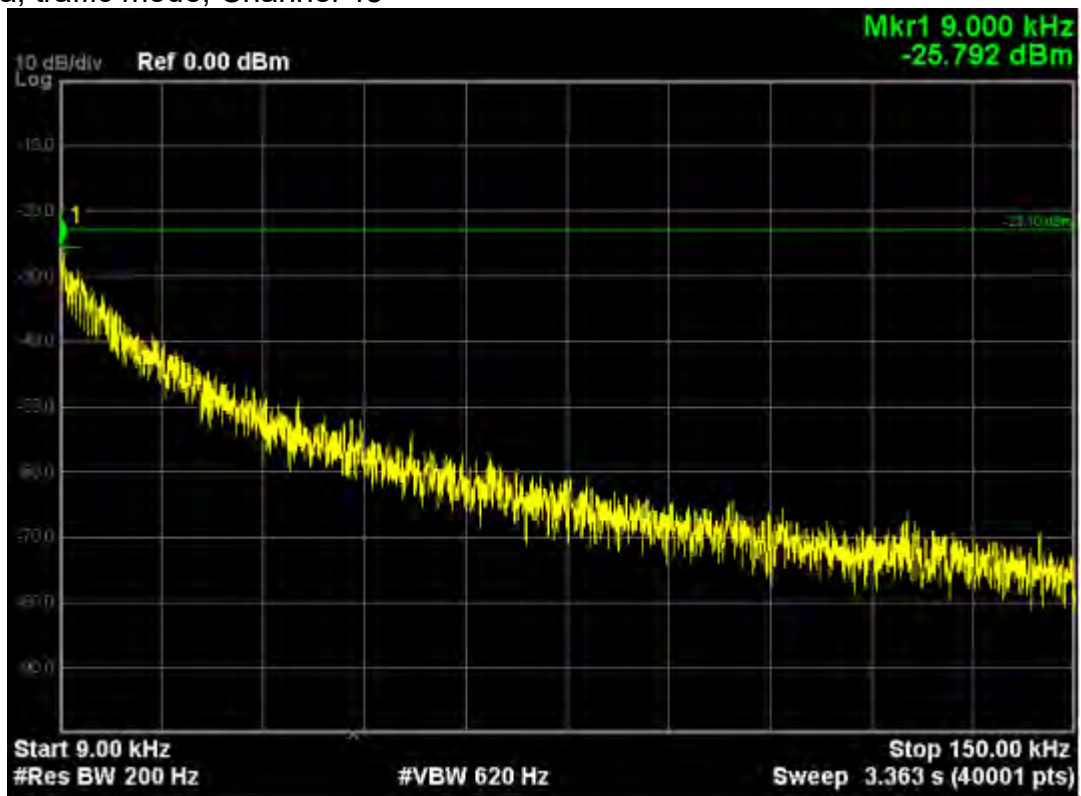


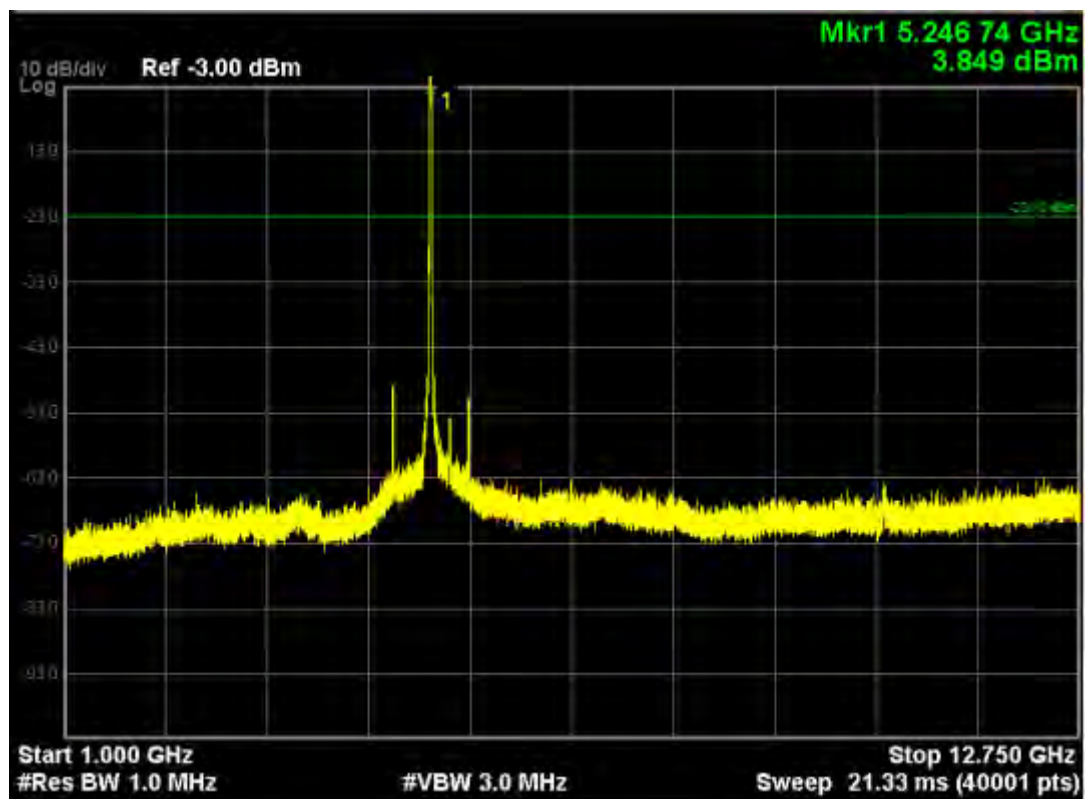
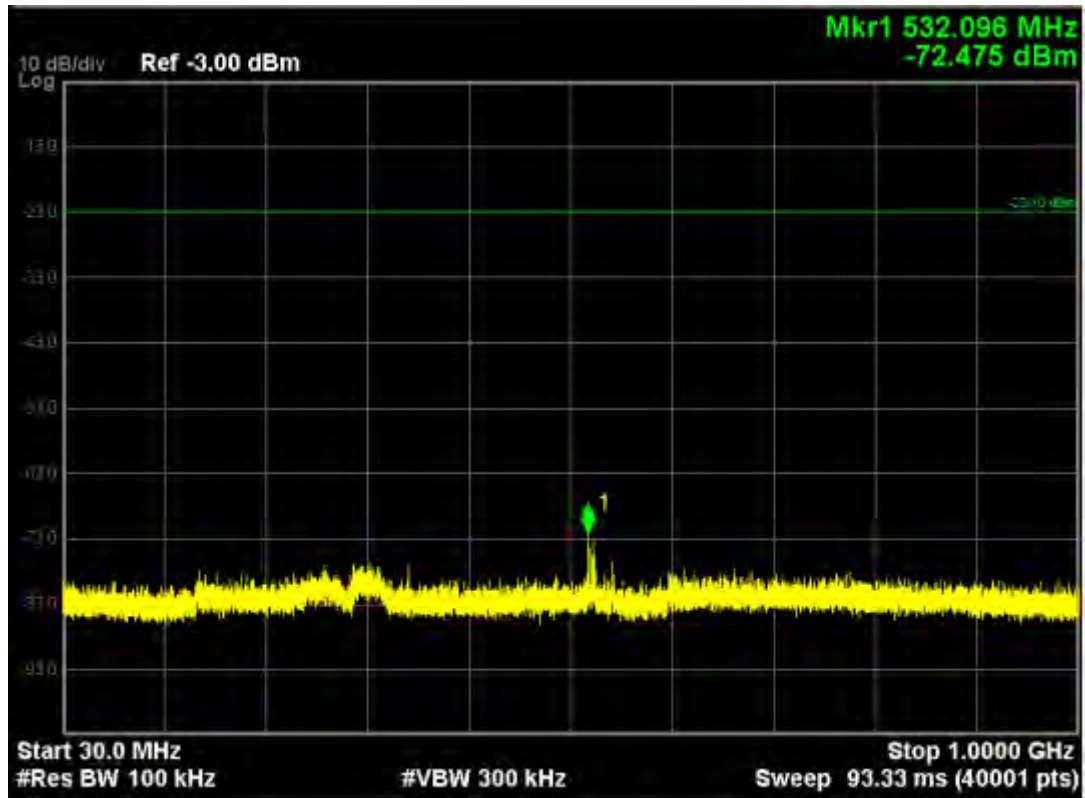


Note: The Mark1 point is carrier.



802.11a, traffic mode; Channel 48

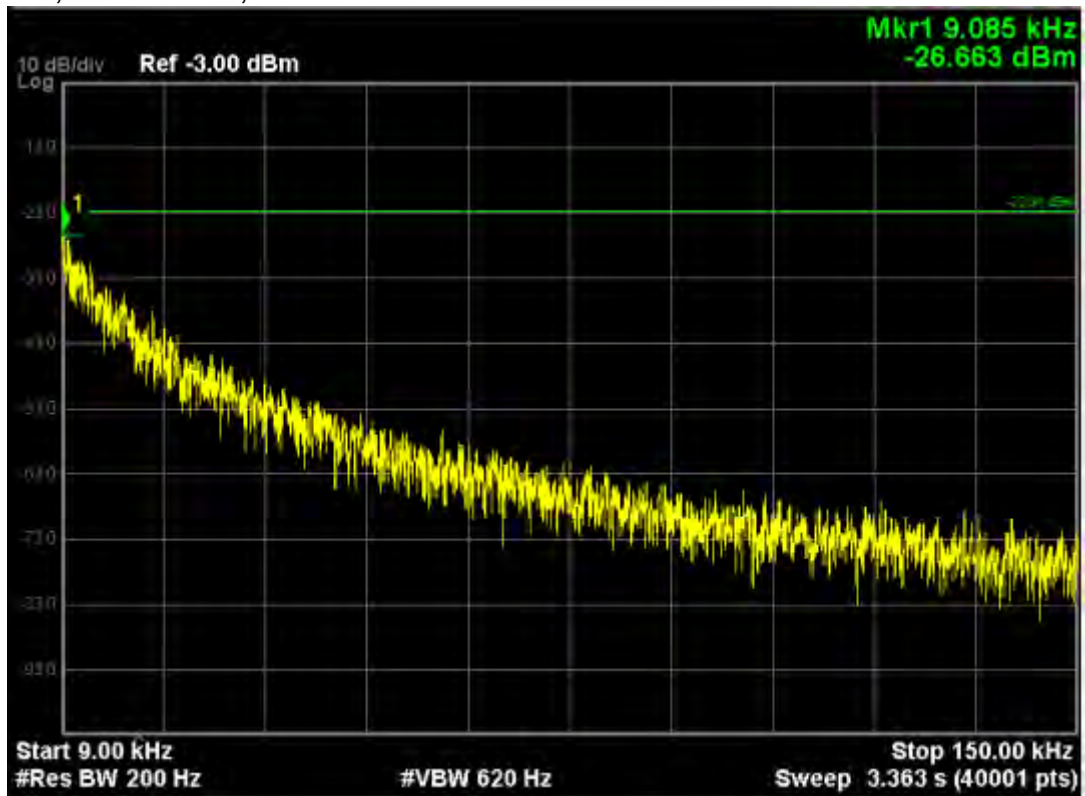


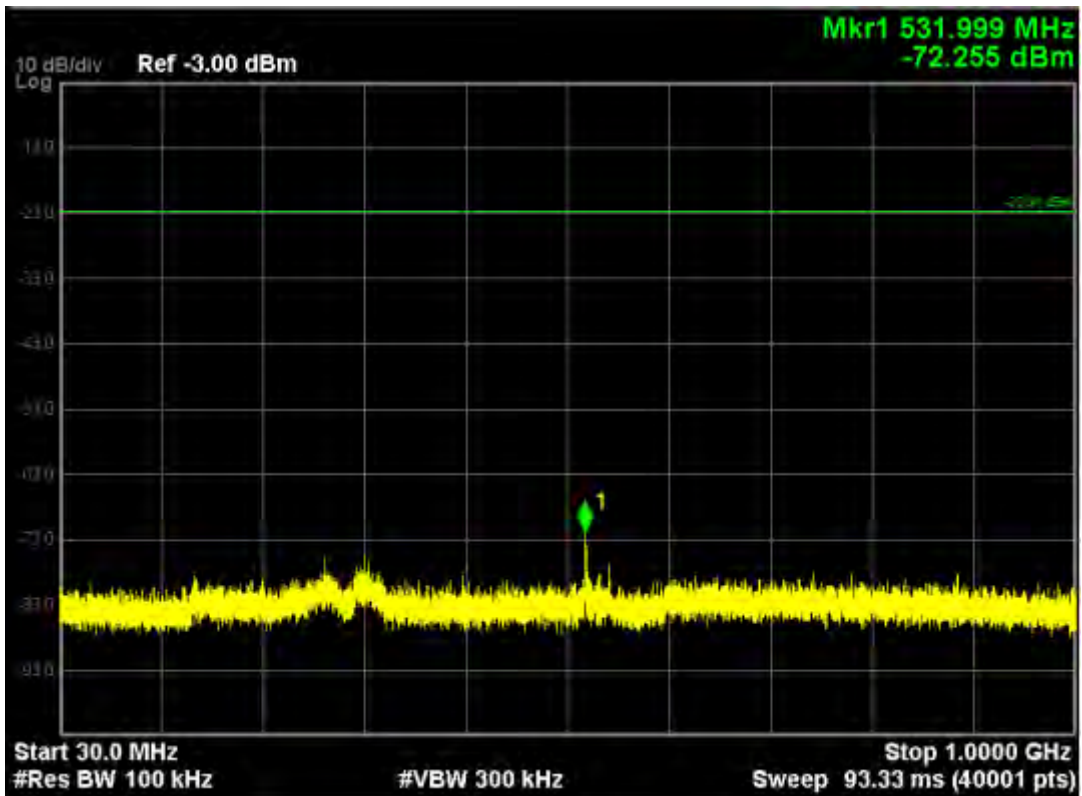
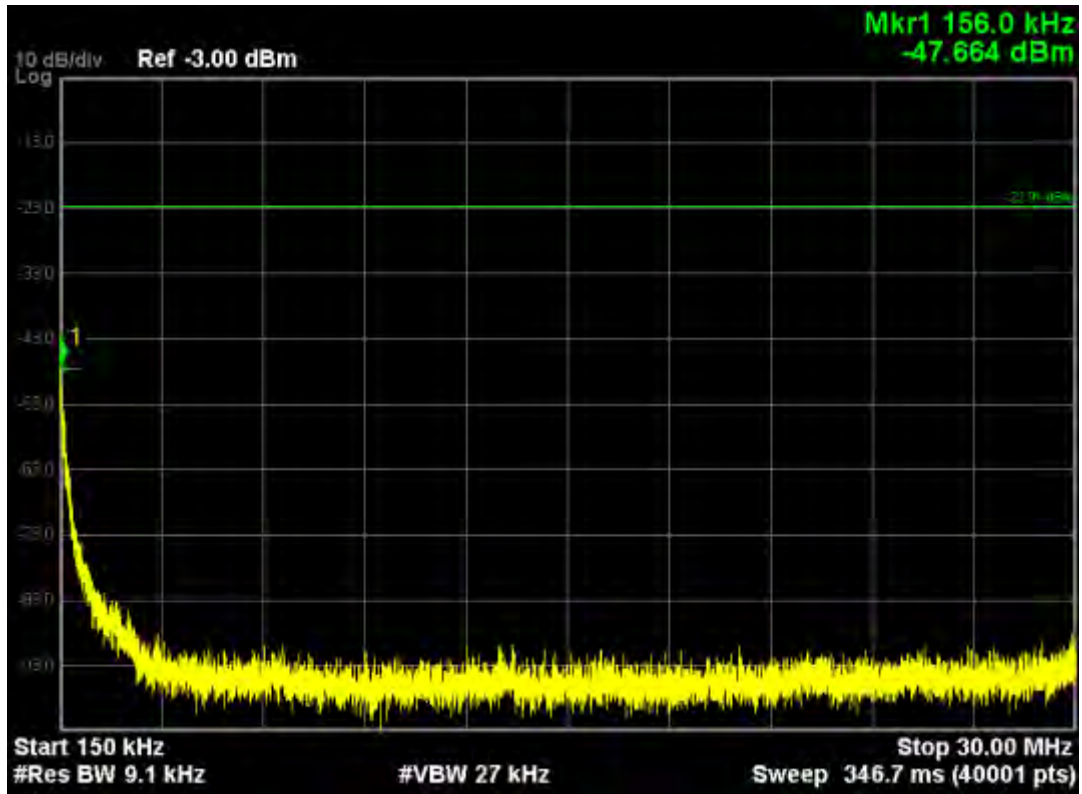


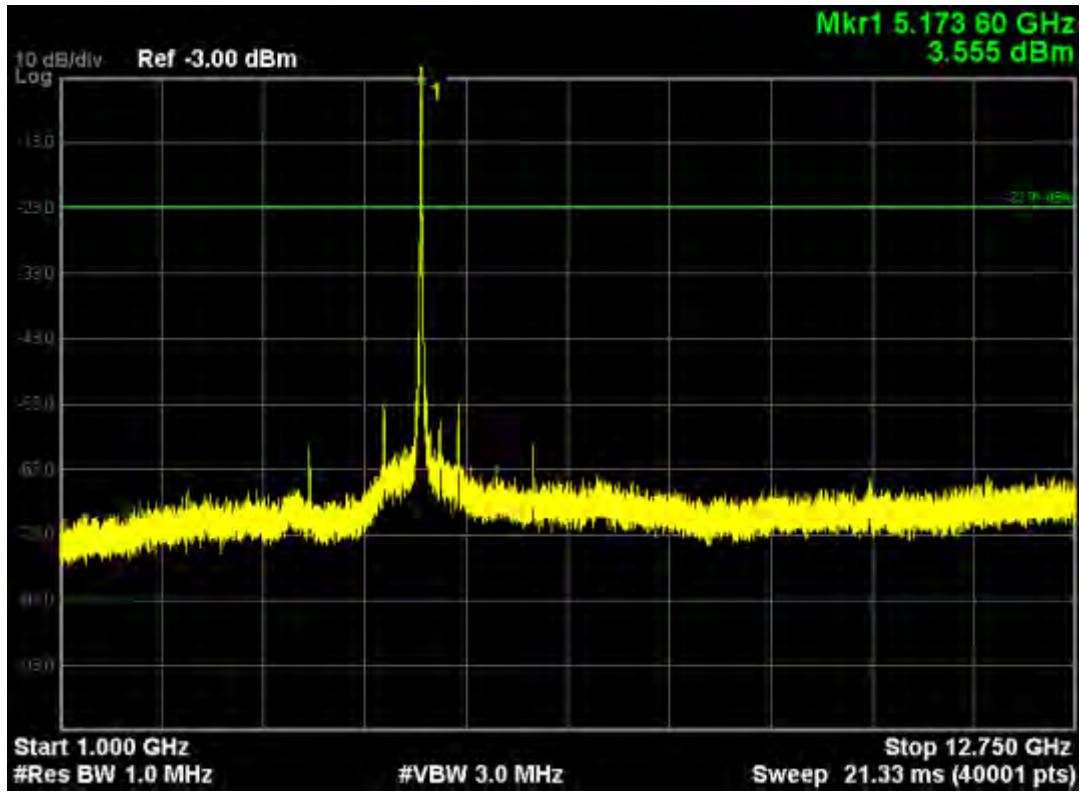
Note: The Mark1 point is carrier.



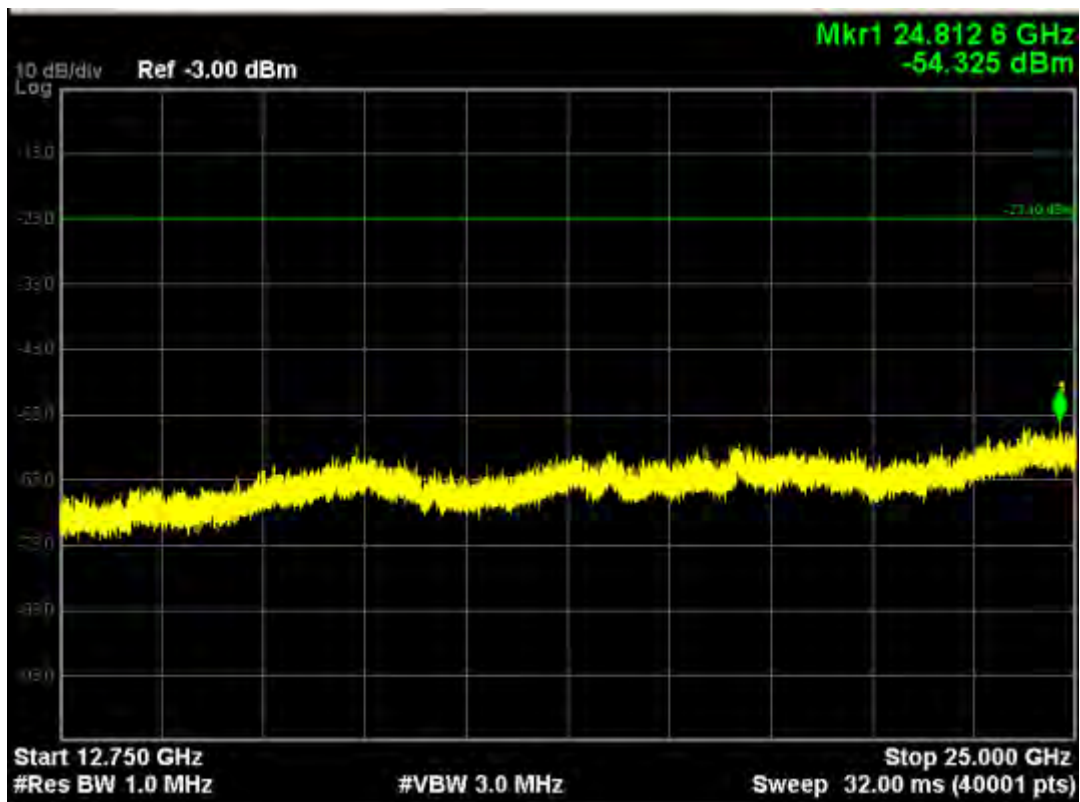
802.11n20, traffic mode; Channel 36



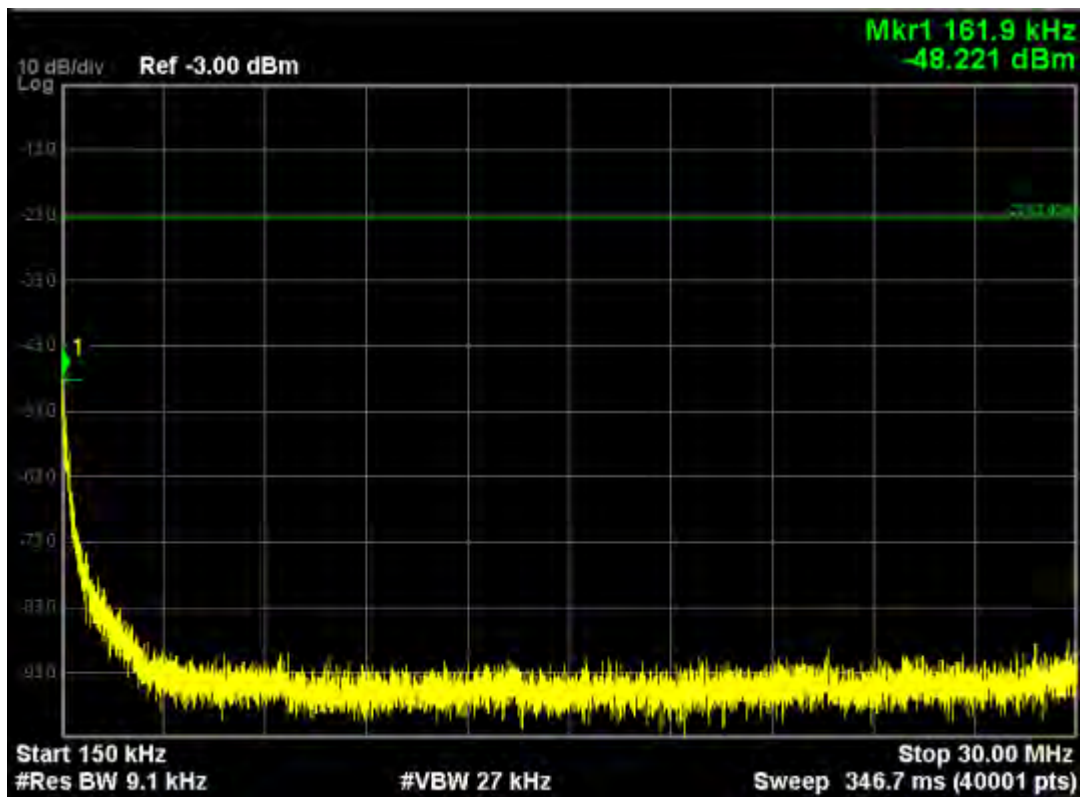
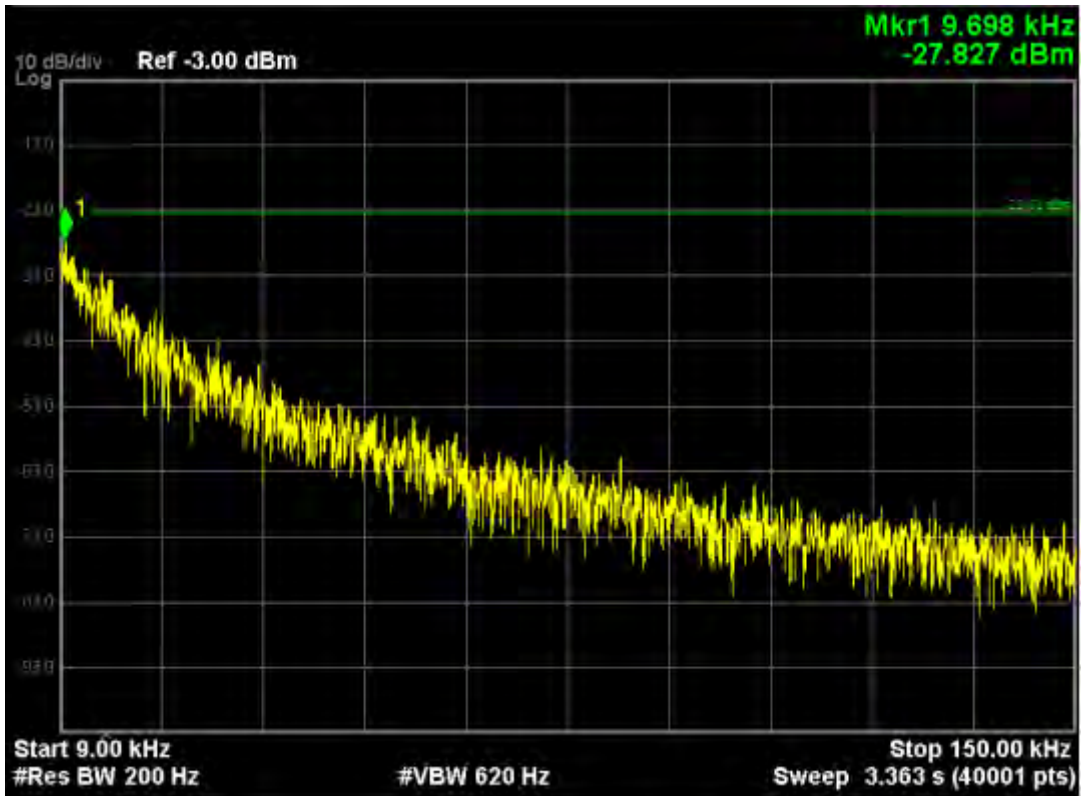


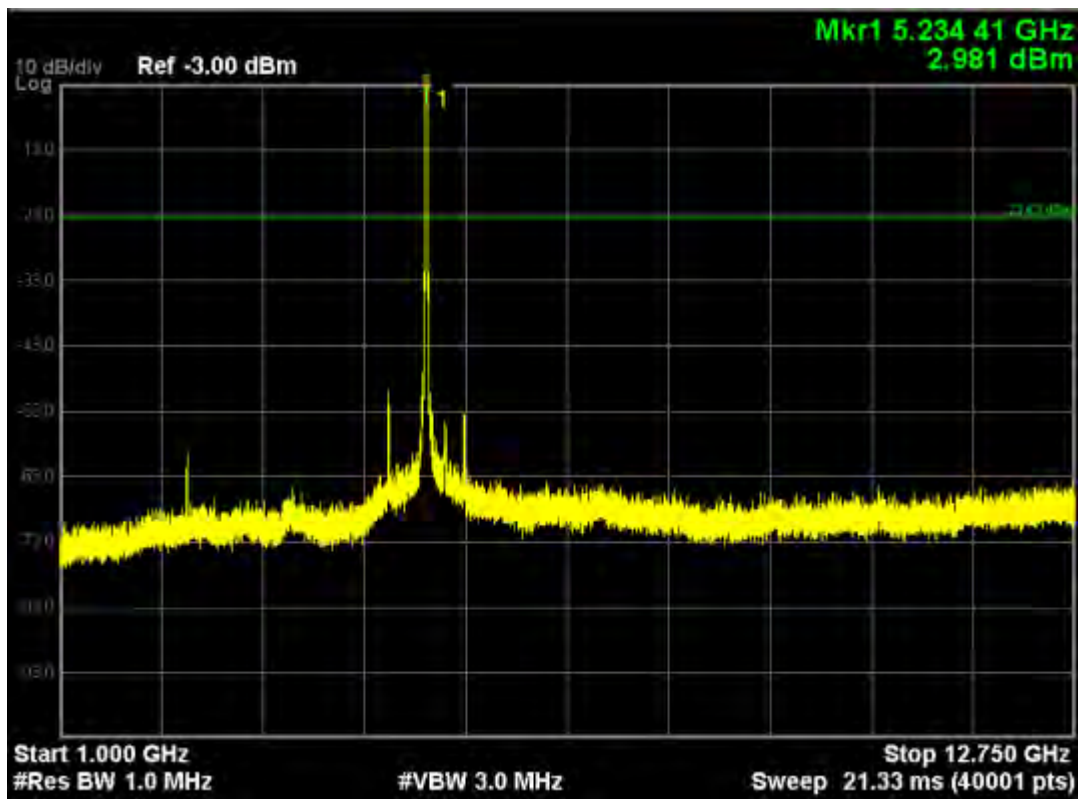
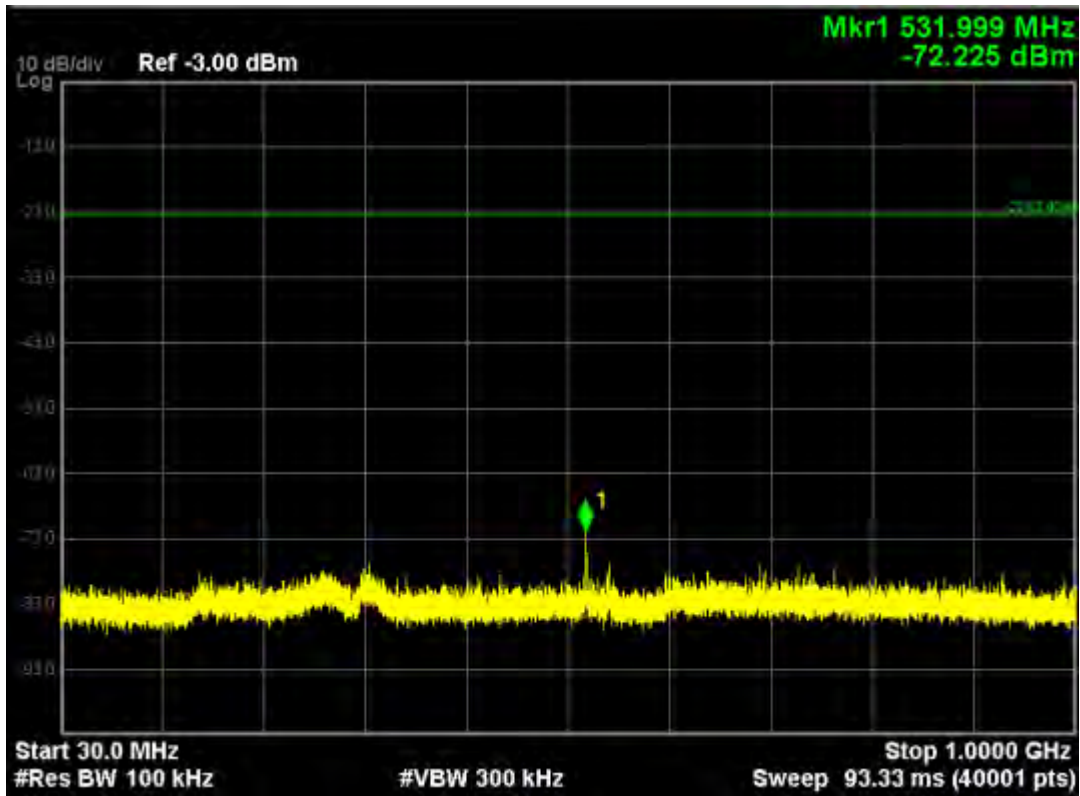


Note: The Mark1 point is carrier.

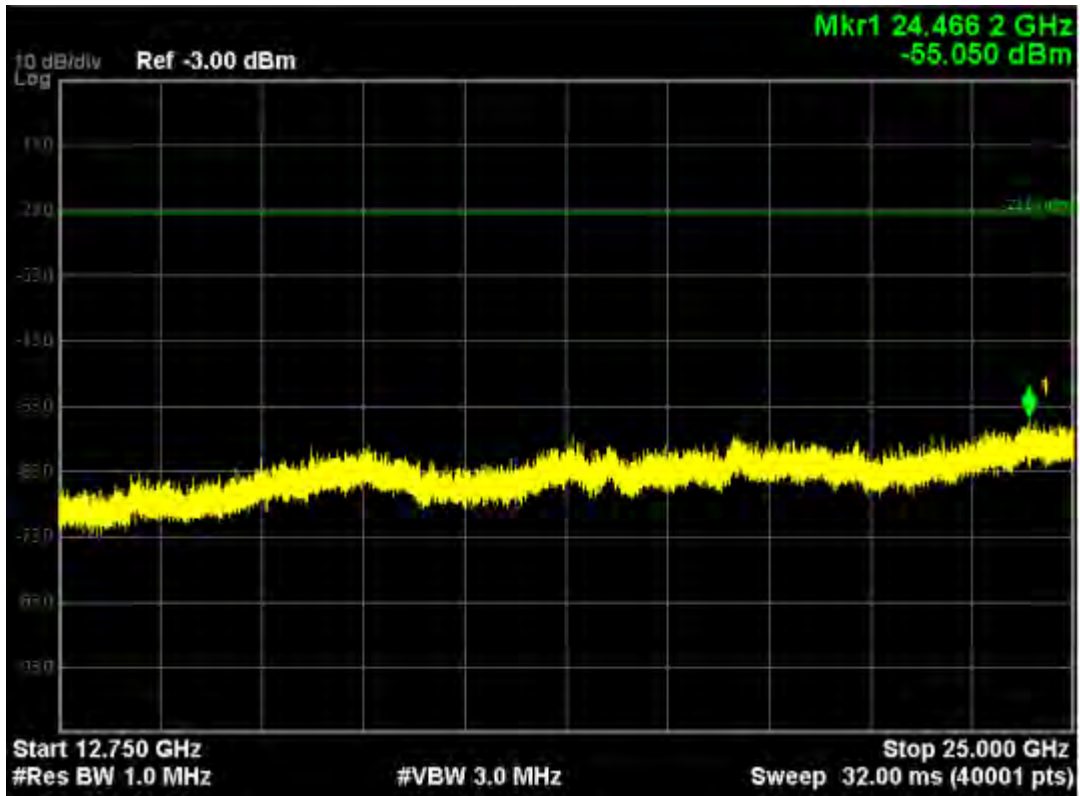


802.11n20, traffic mode; Channel 48

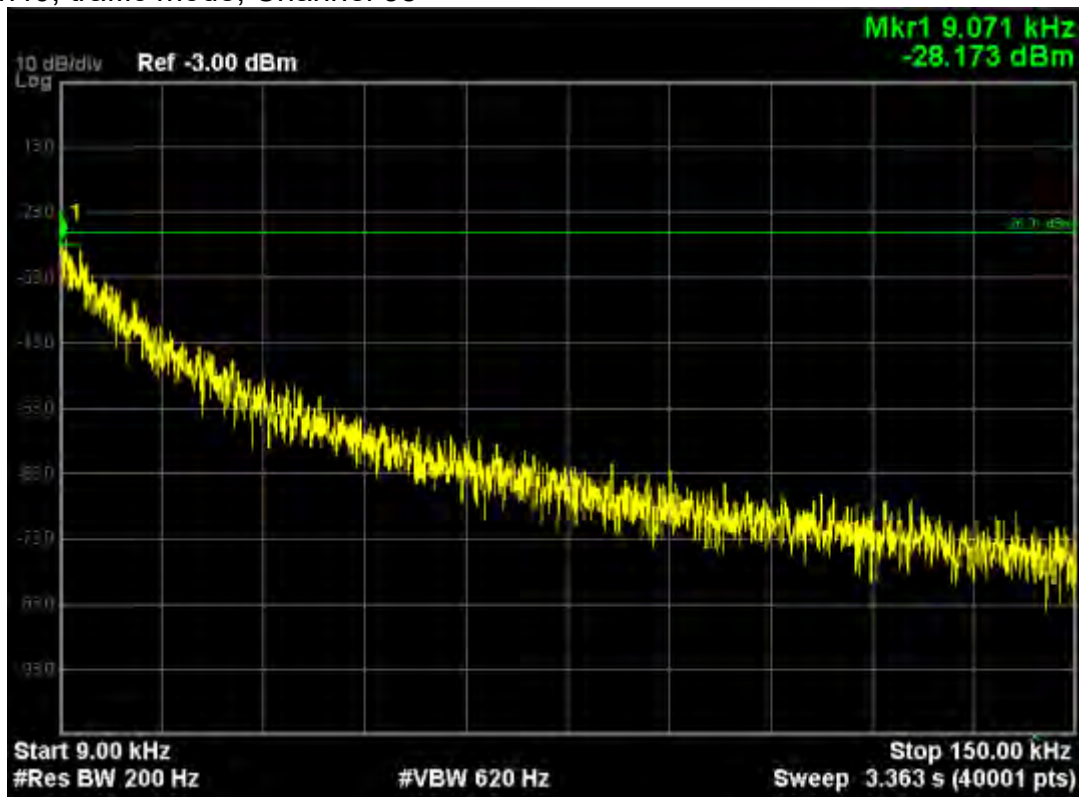


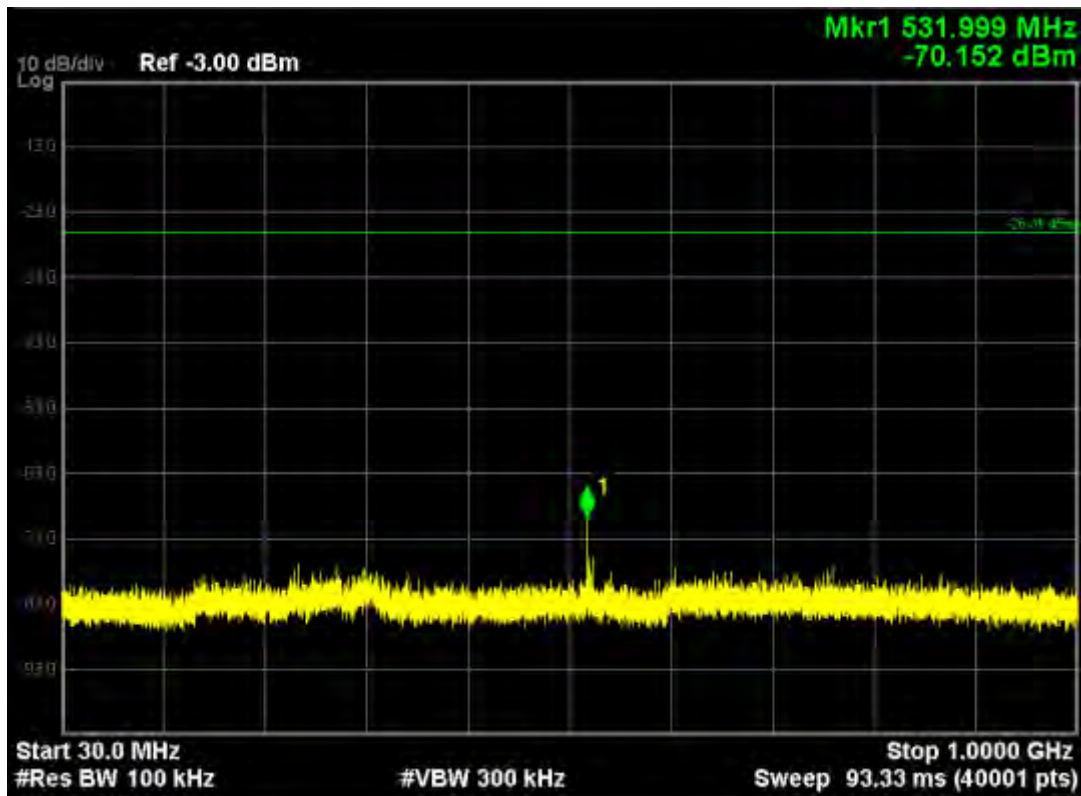
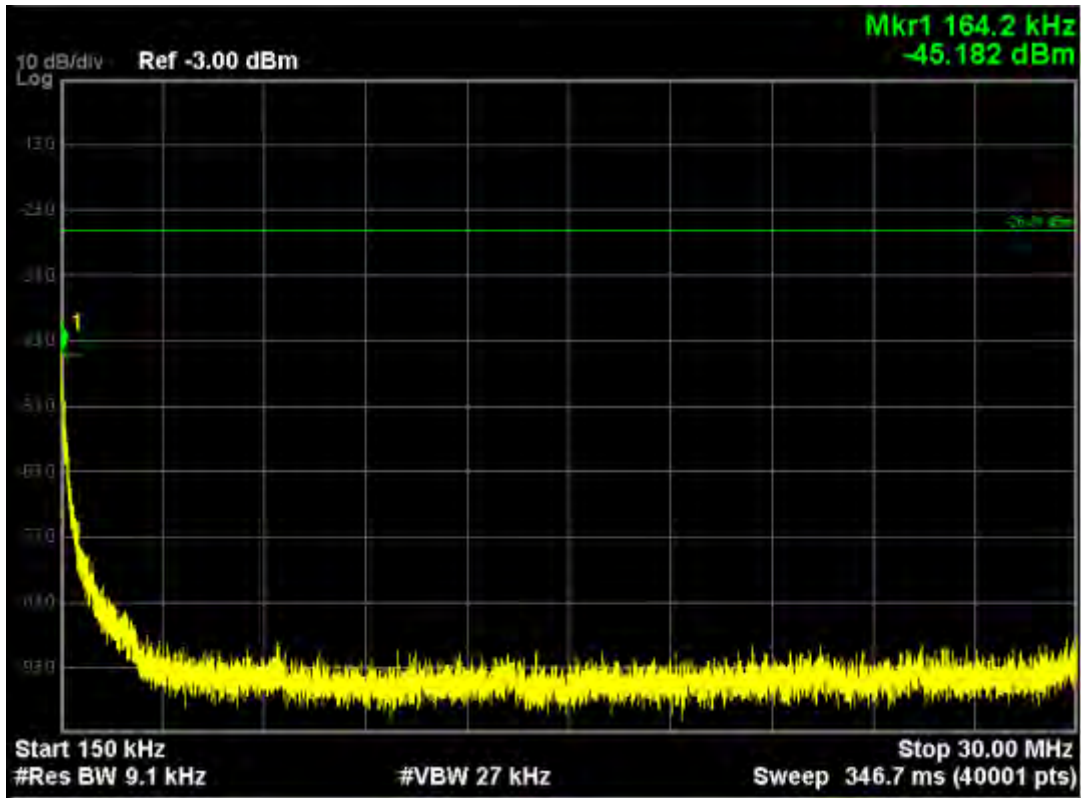


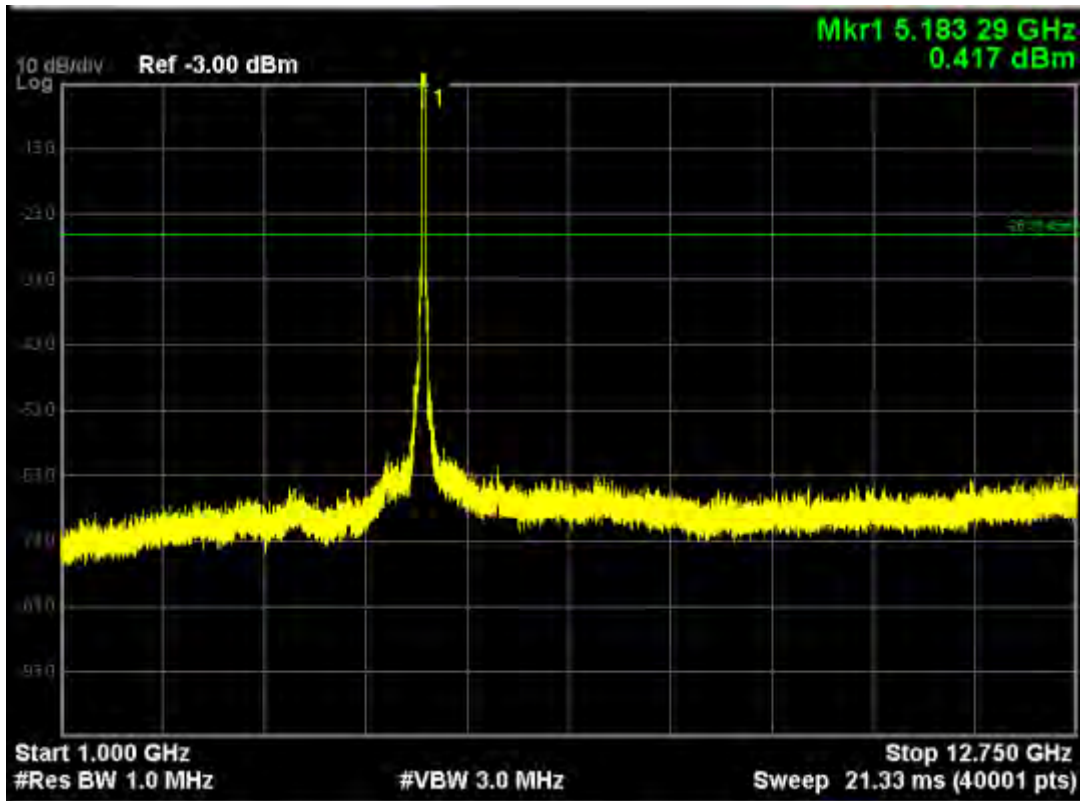
Note: The Mark1 point is carrier.



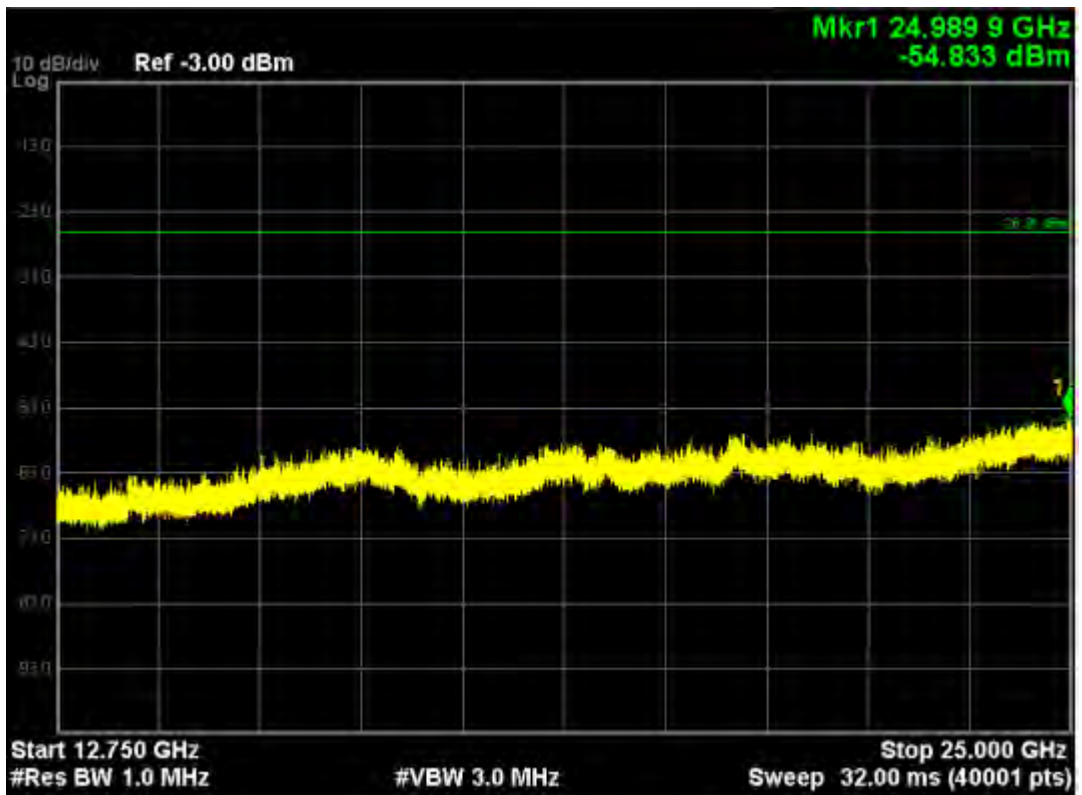
802.11n40, traffic mode; Channel 38



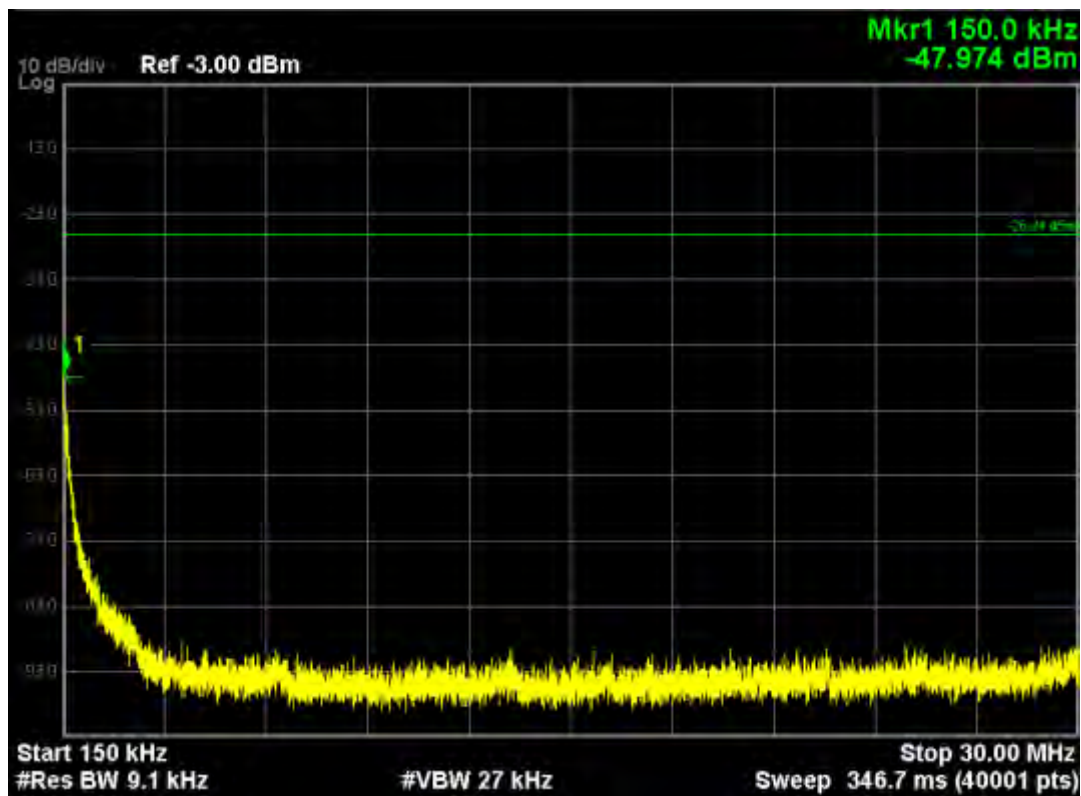
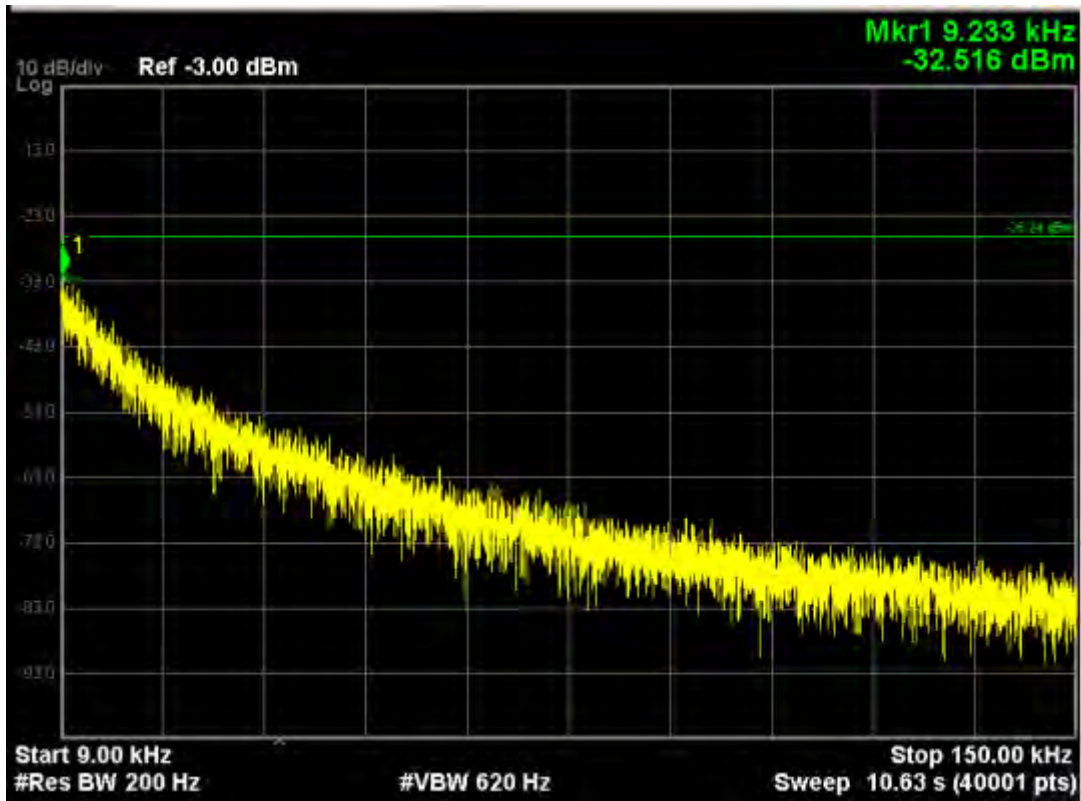


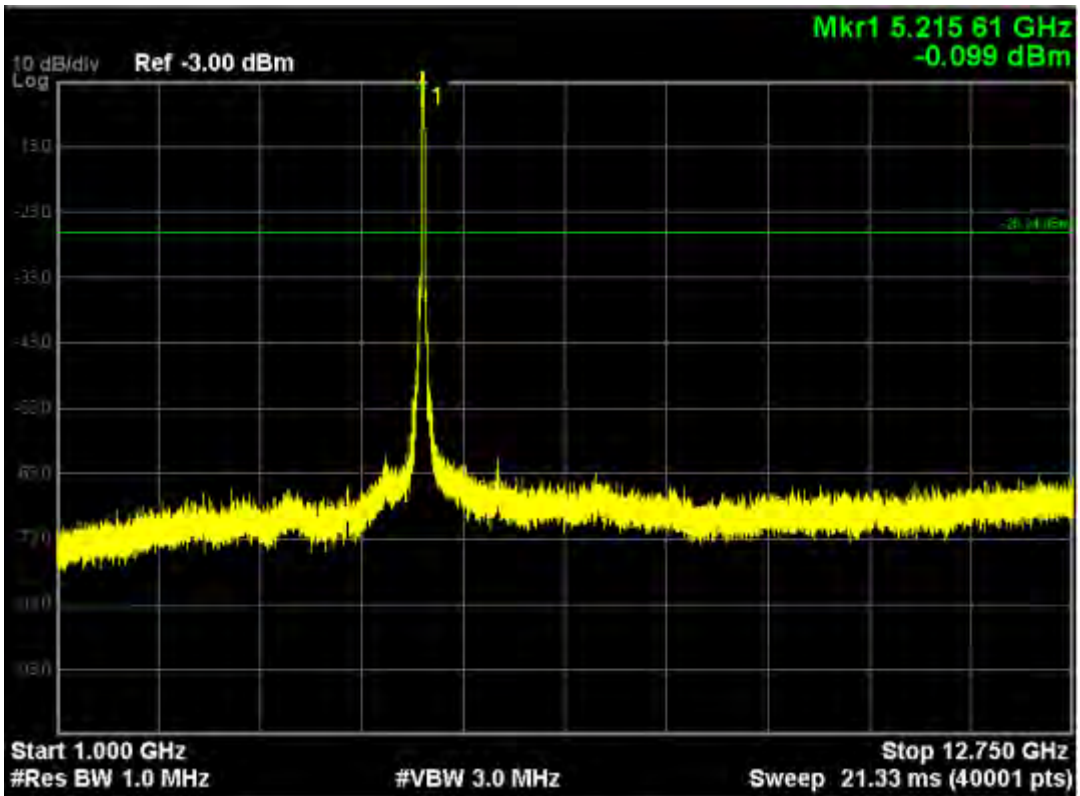
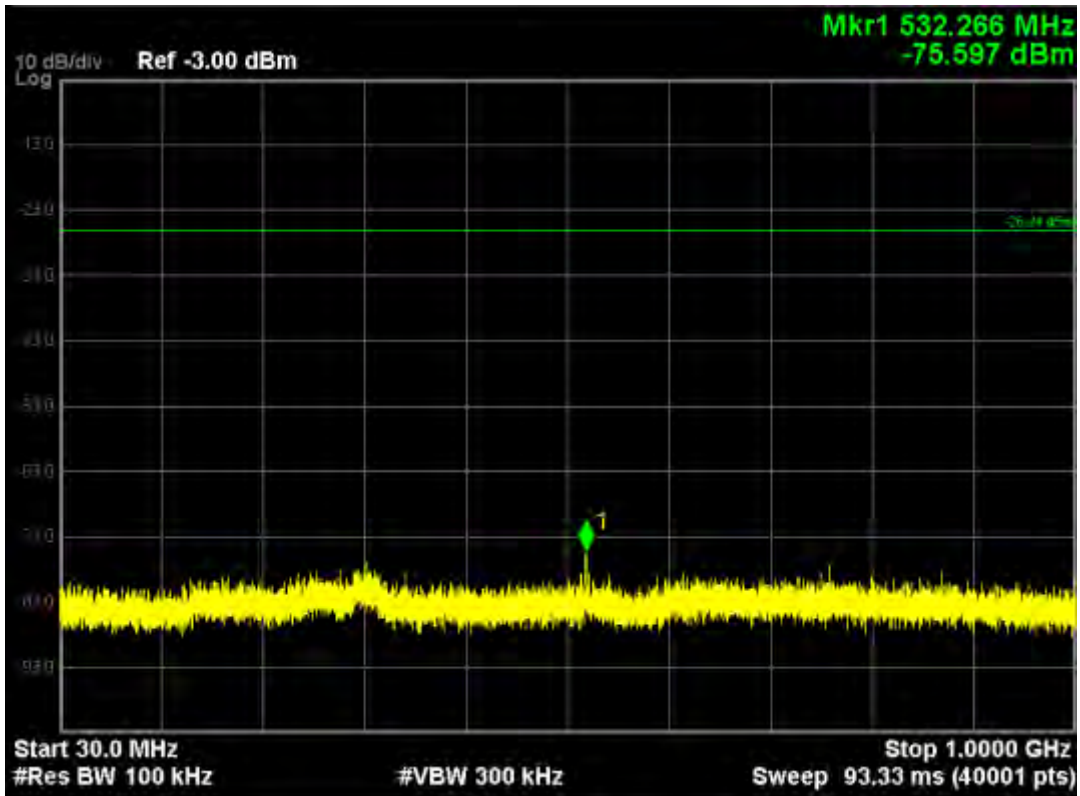


Note: The Mark1 point is carrier.

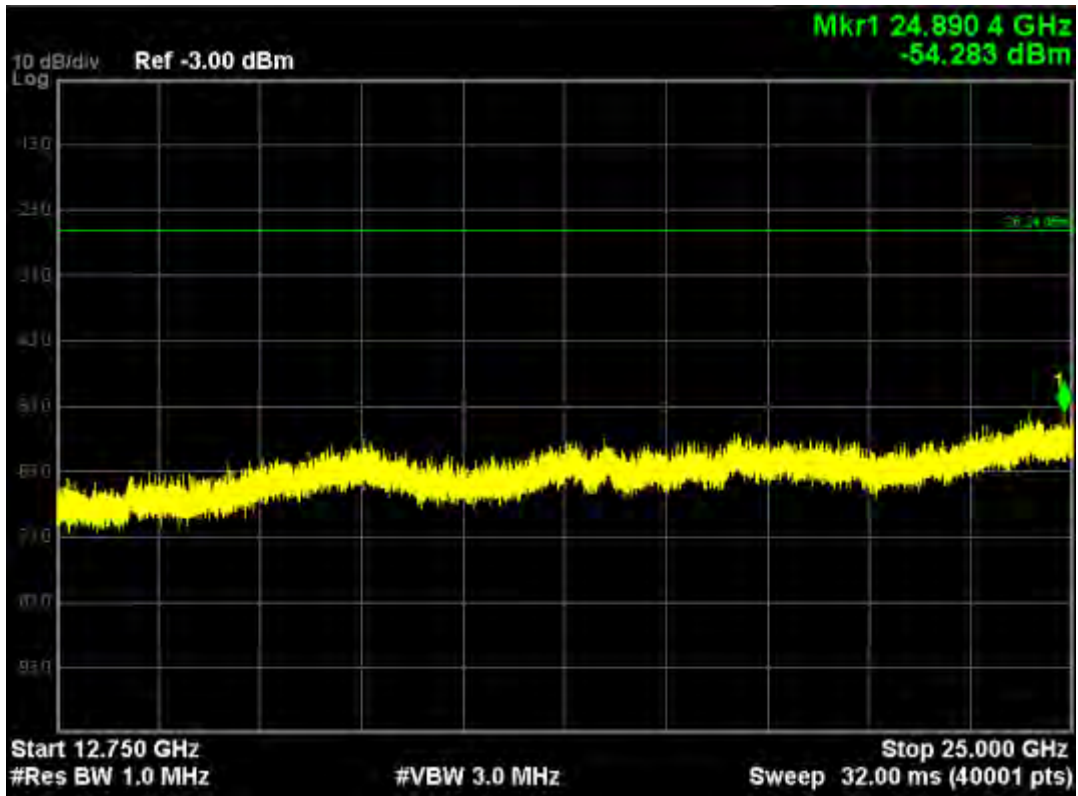


802.11n40, traffic mode; Channel 46

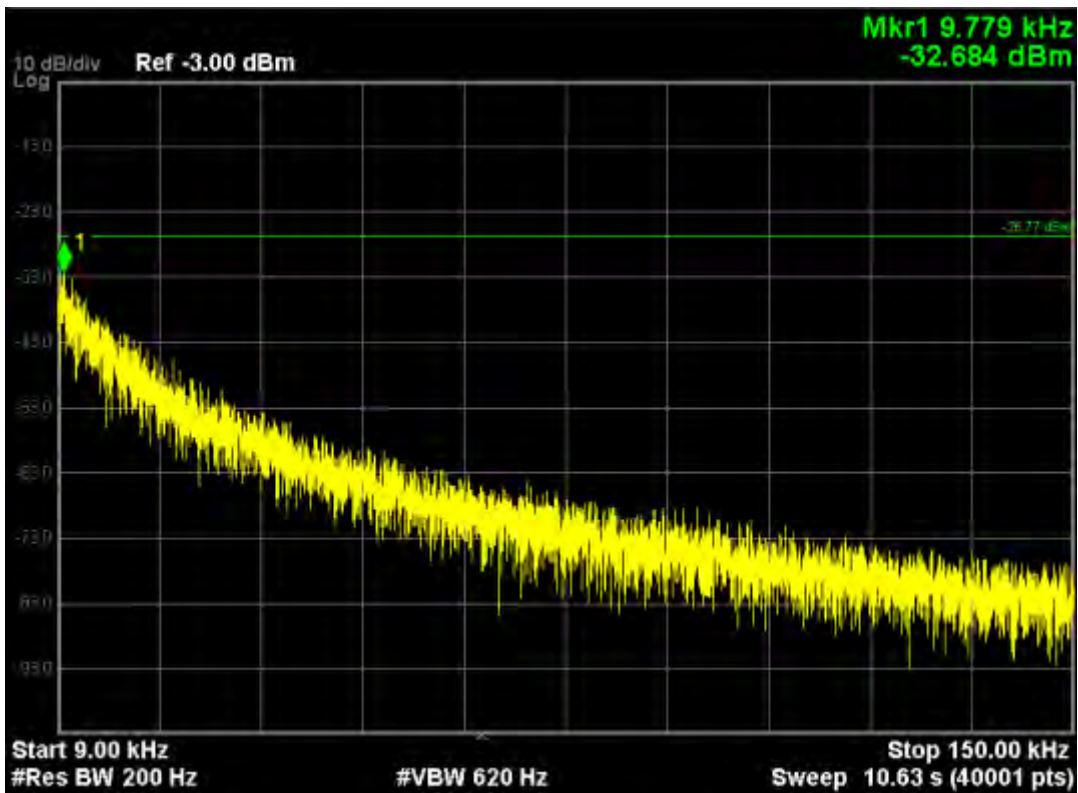


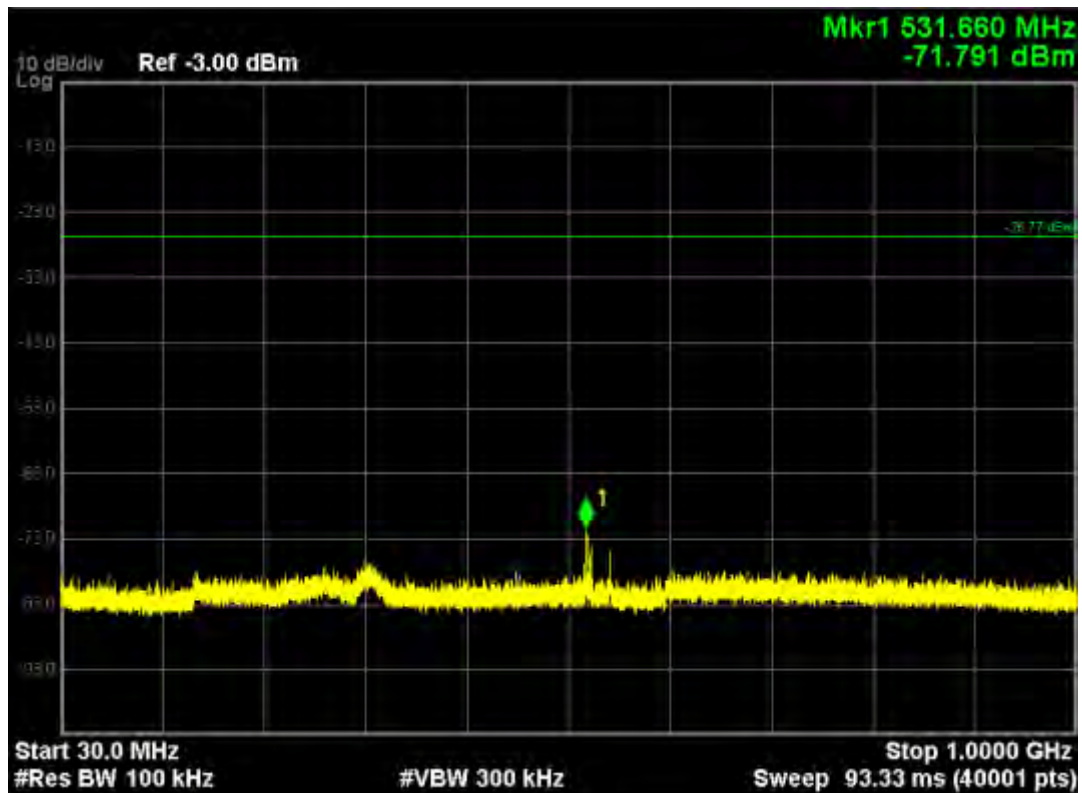
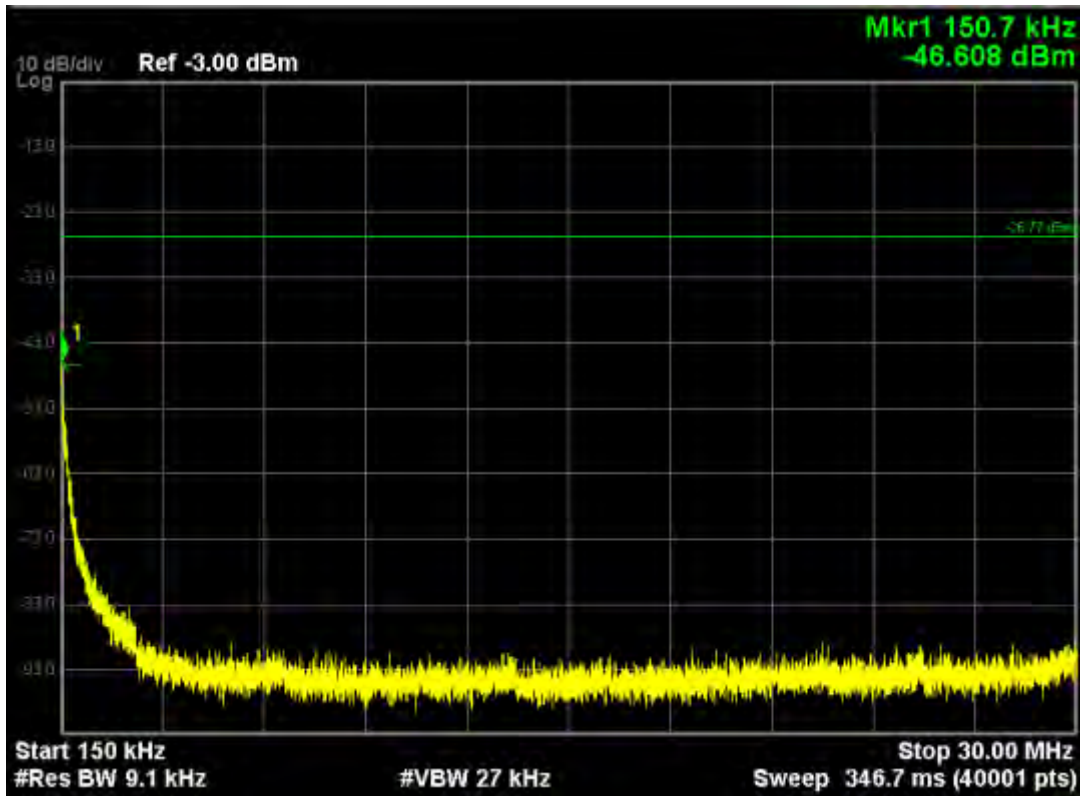


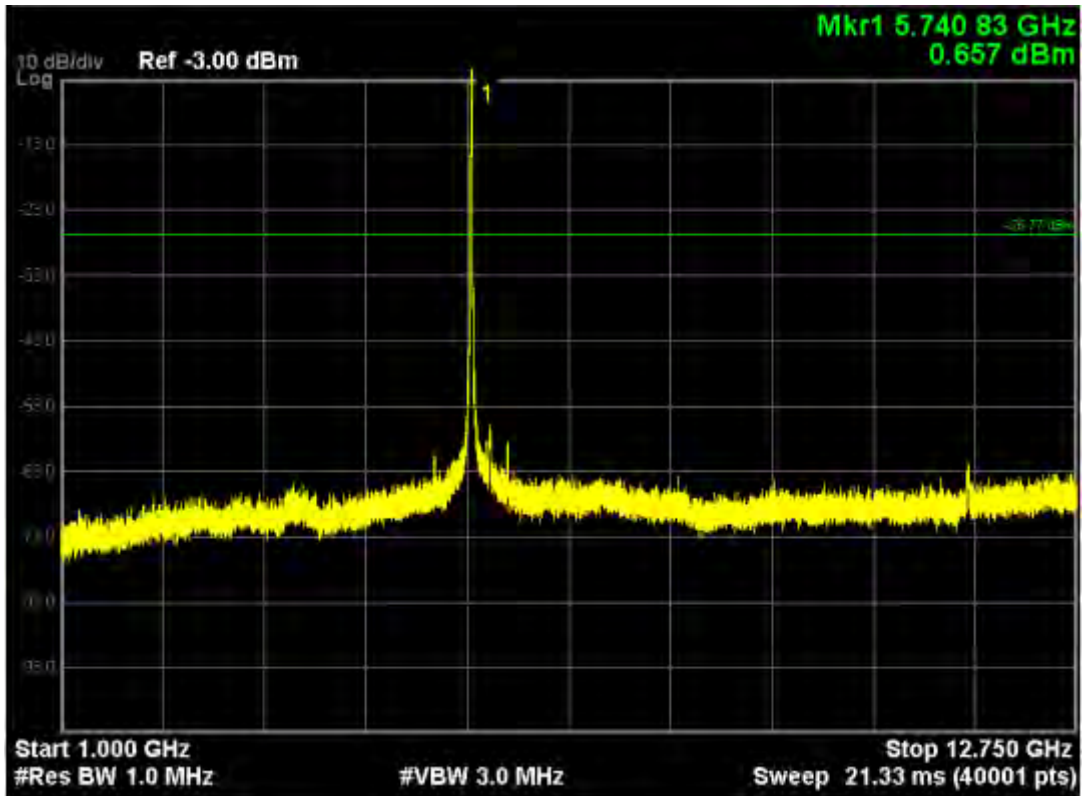
Note: The Mark1 point is carrier.



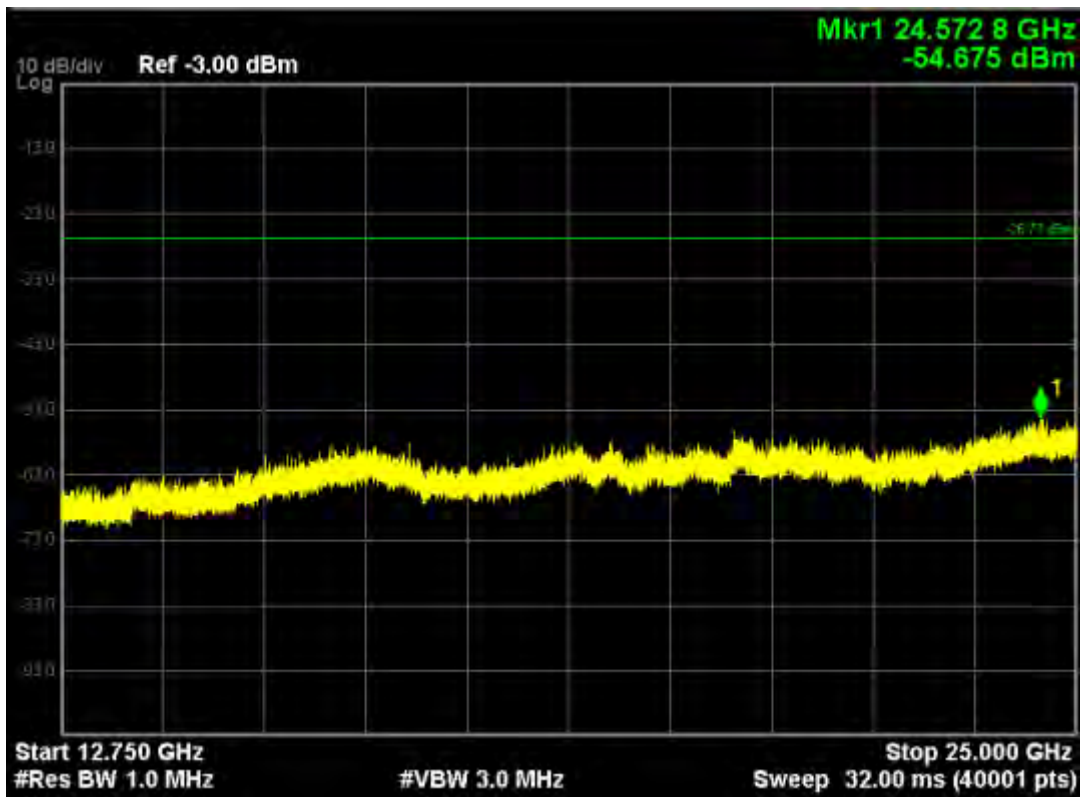
WIFI 5G(5725MHZ-5850MHZ)
802.11a, traffic mode; Channel 149



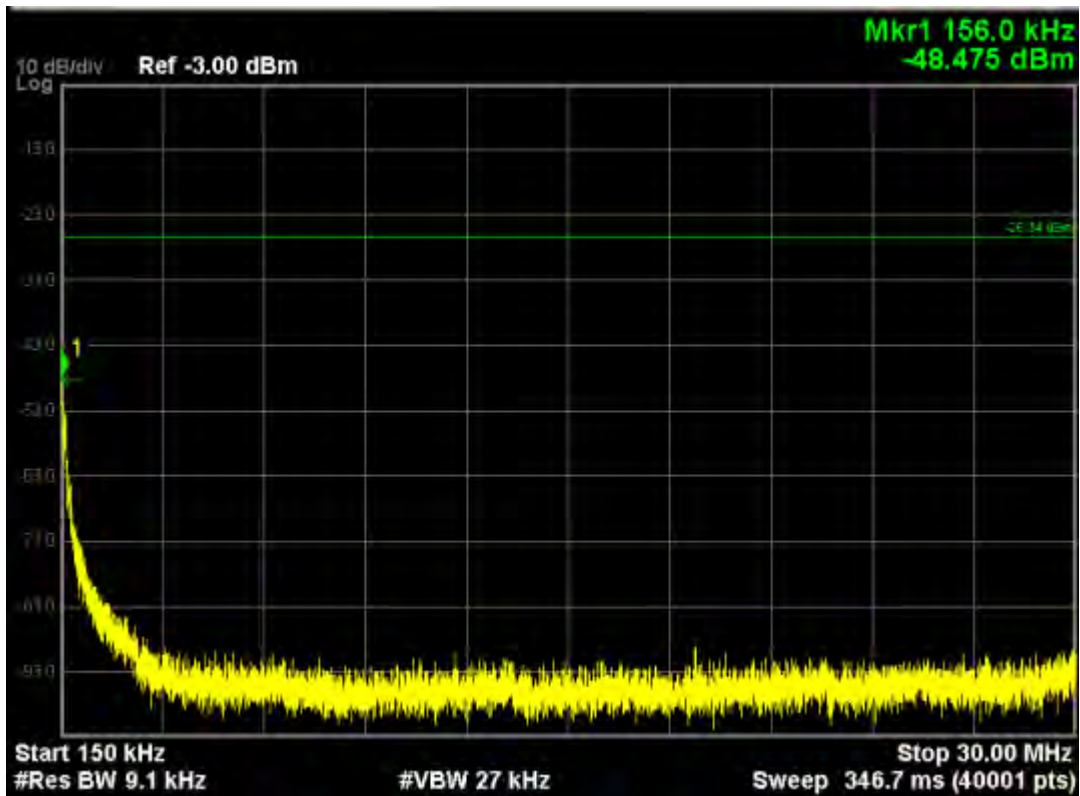
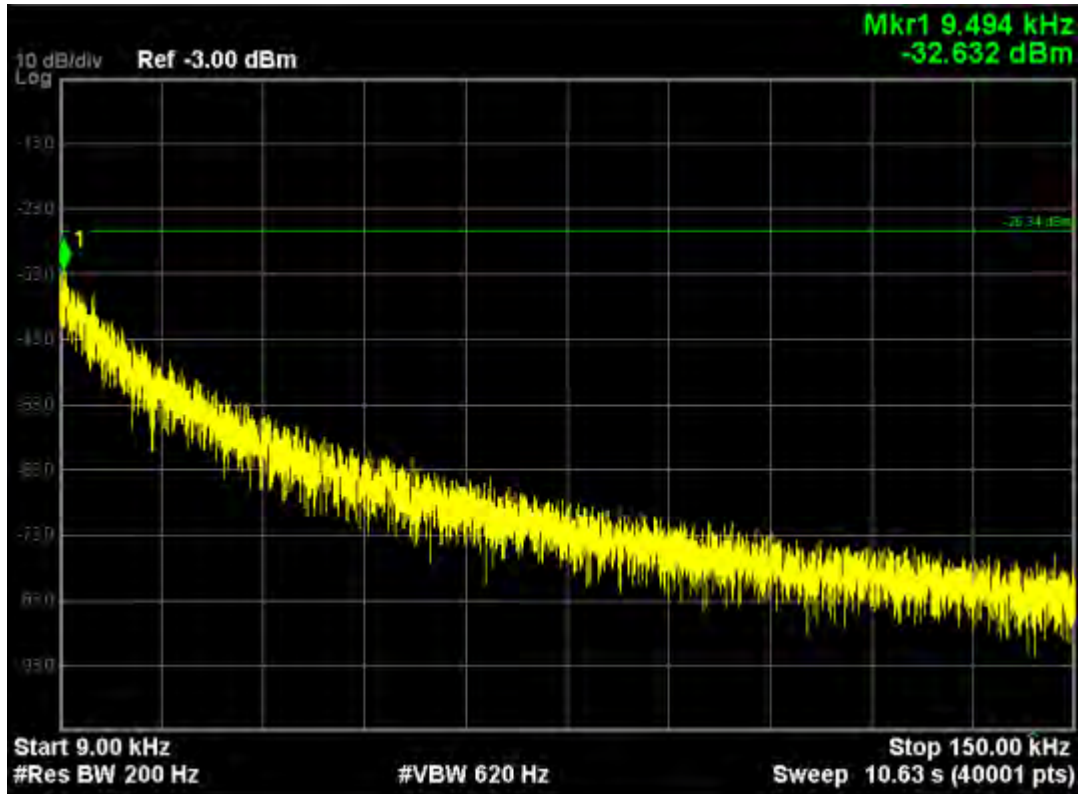


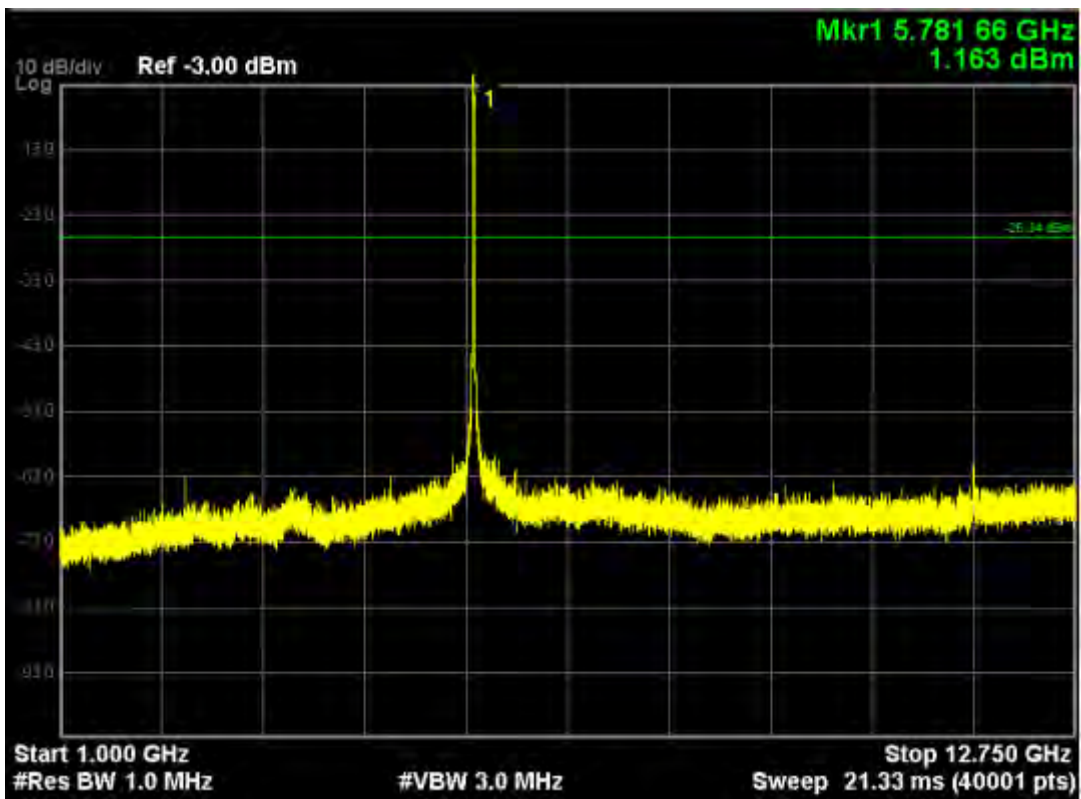
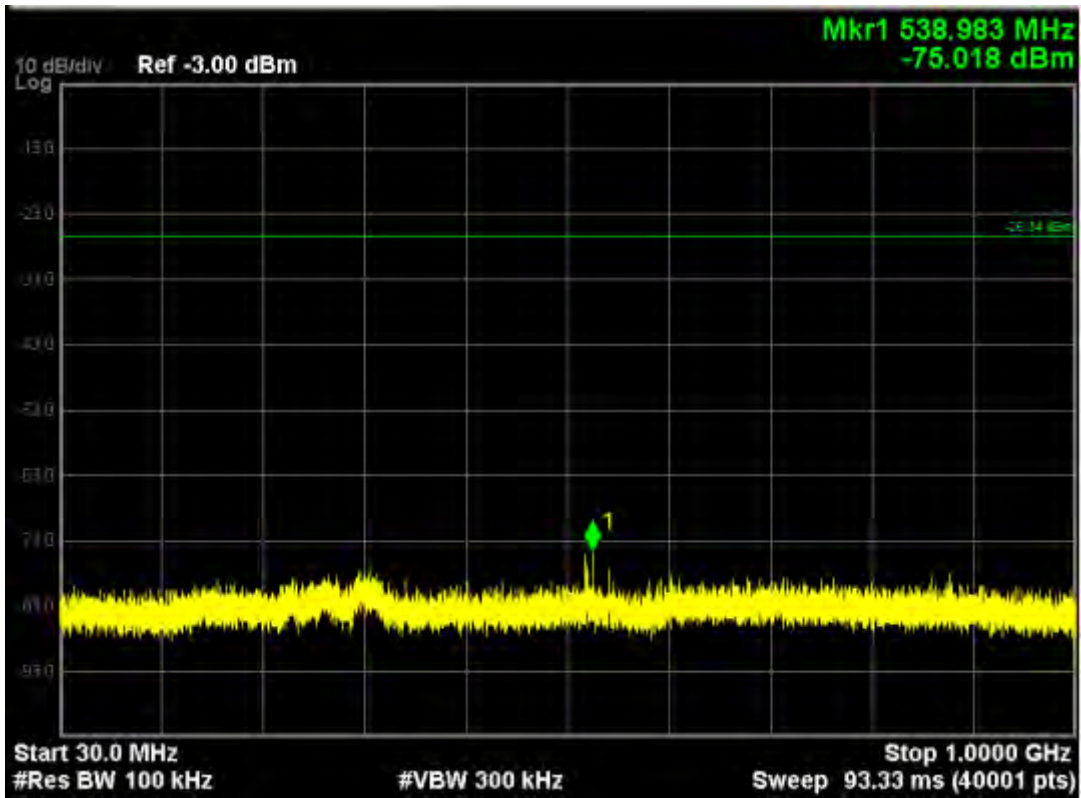


Note: The Mark1 point is carrier.

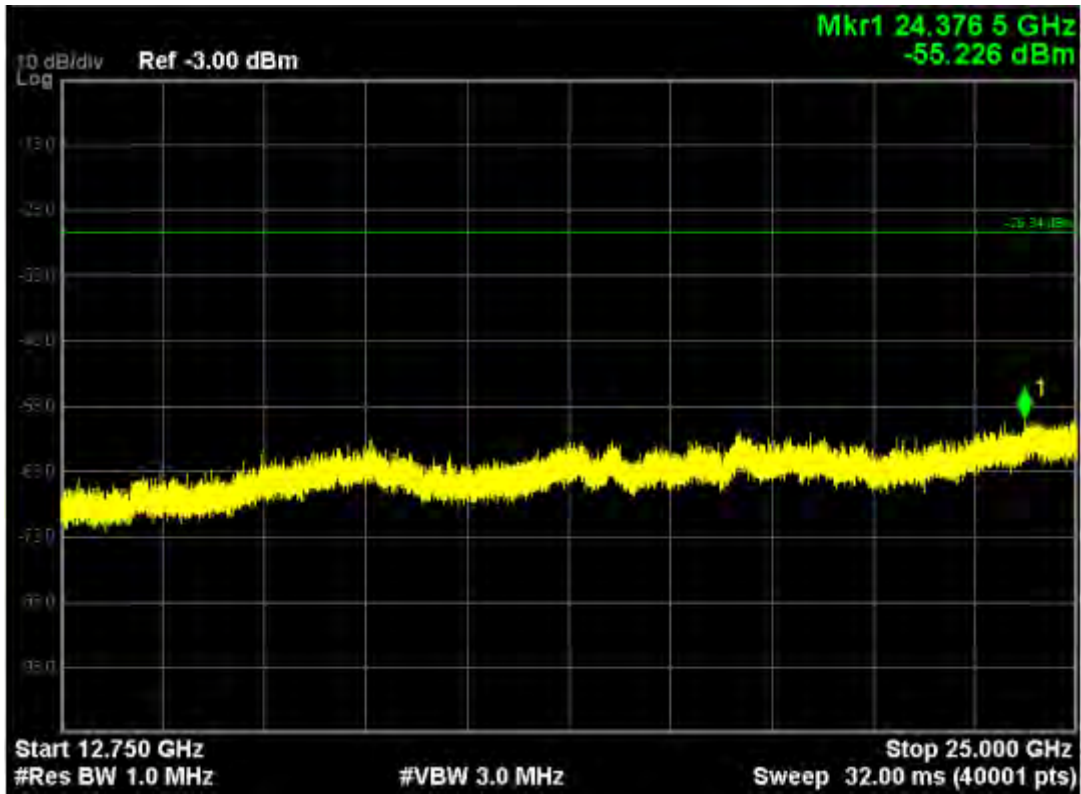


802.11a, traffic mode; Channel 157

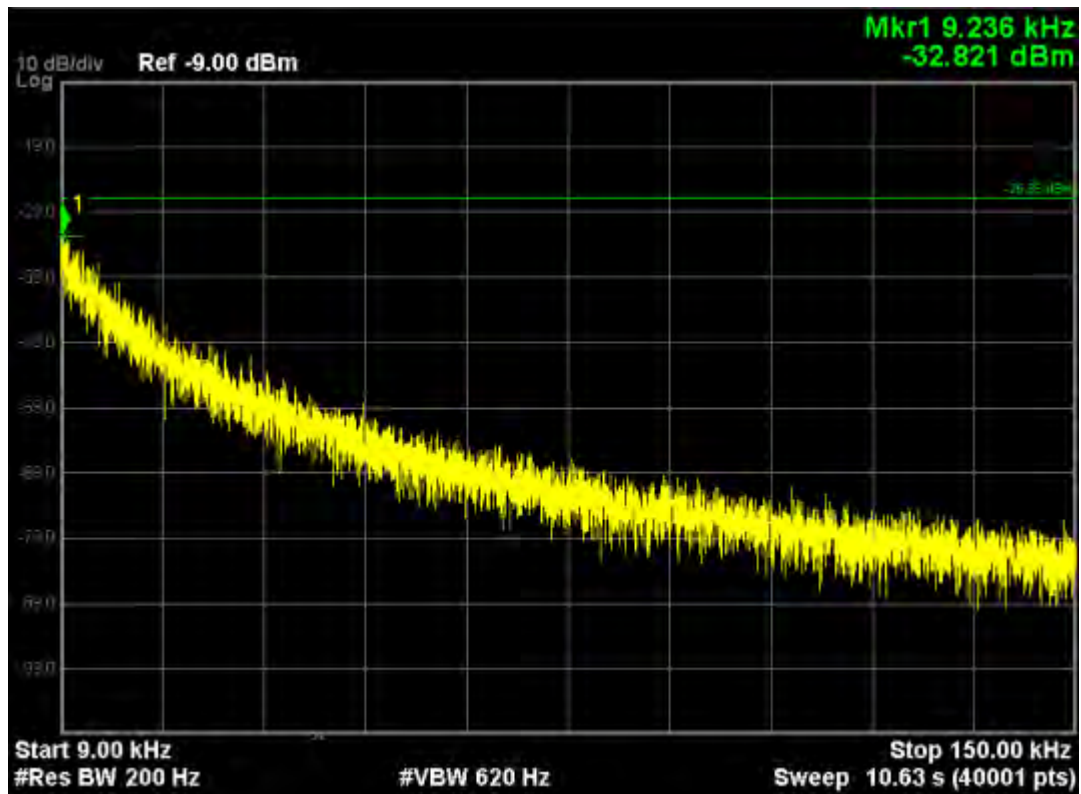


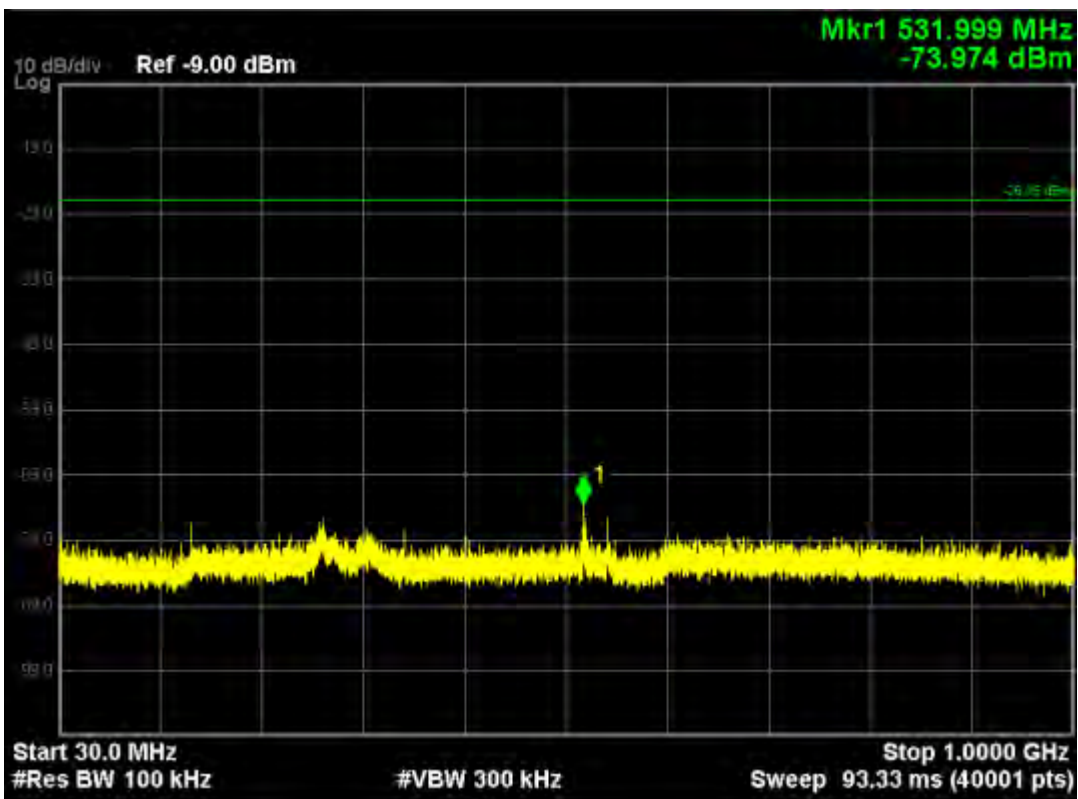
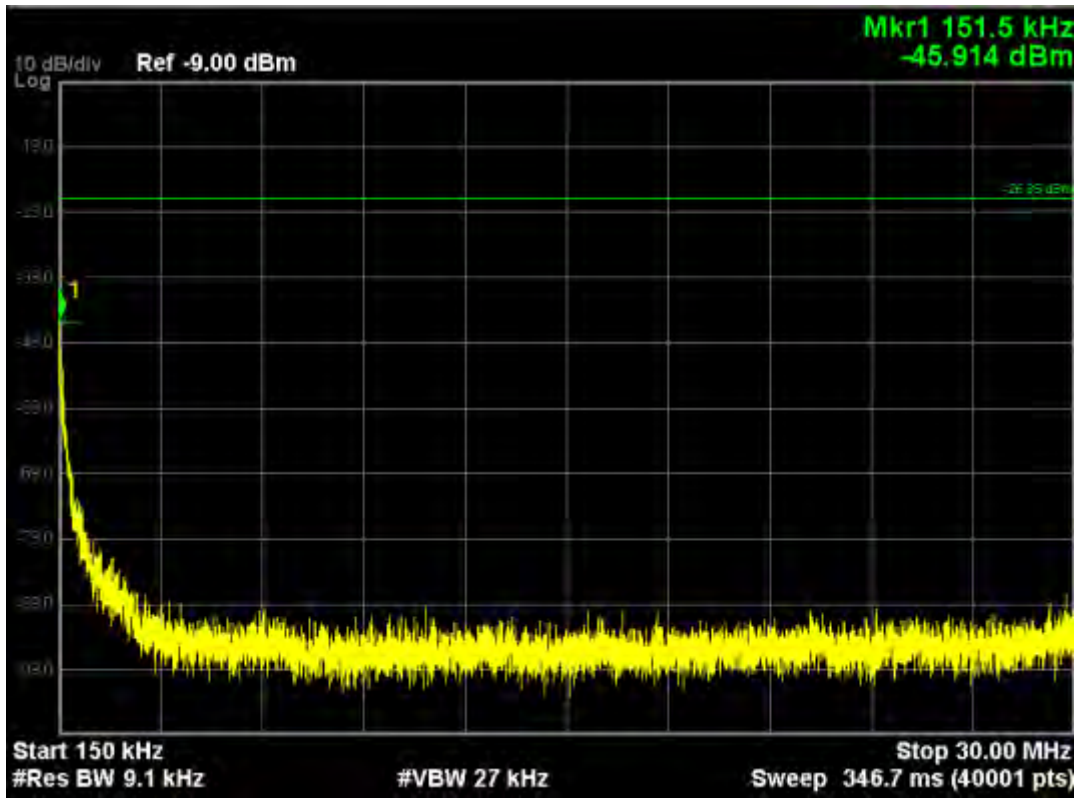


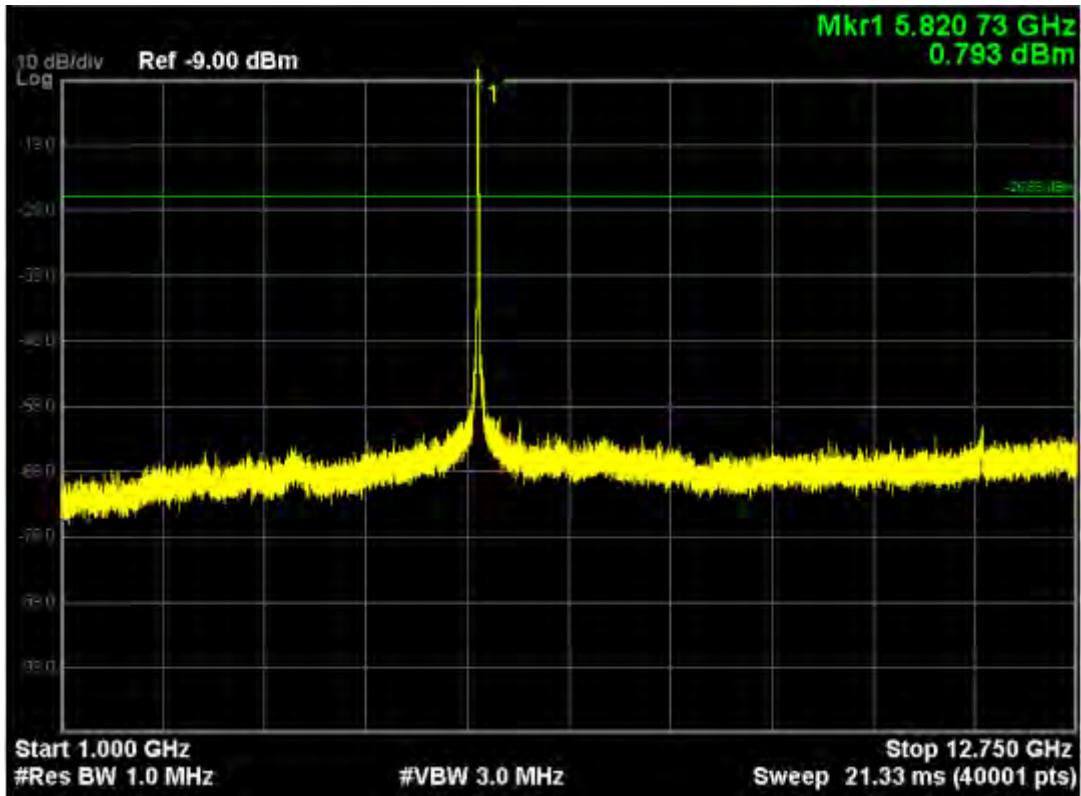
Note: The Mark1 point is carrier.



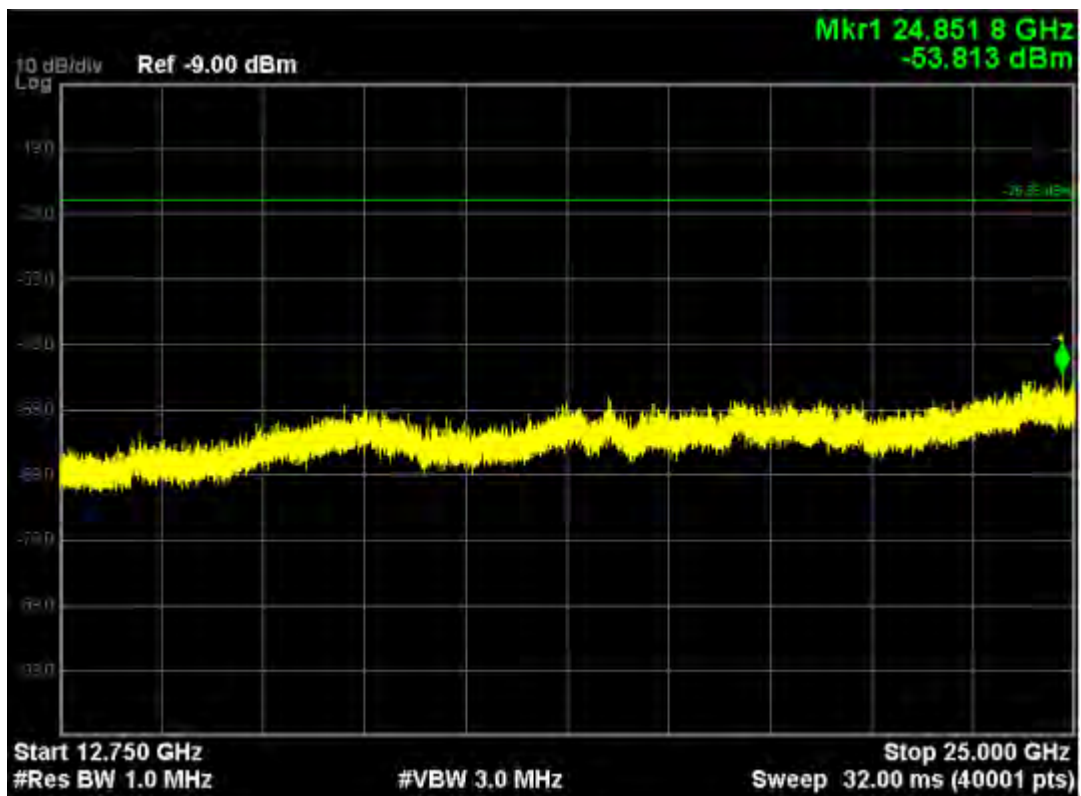
802.11a, traffic mode; Channel 165



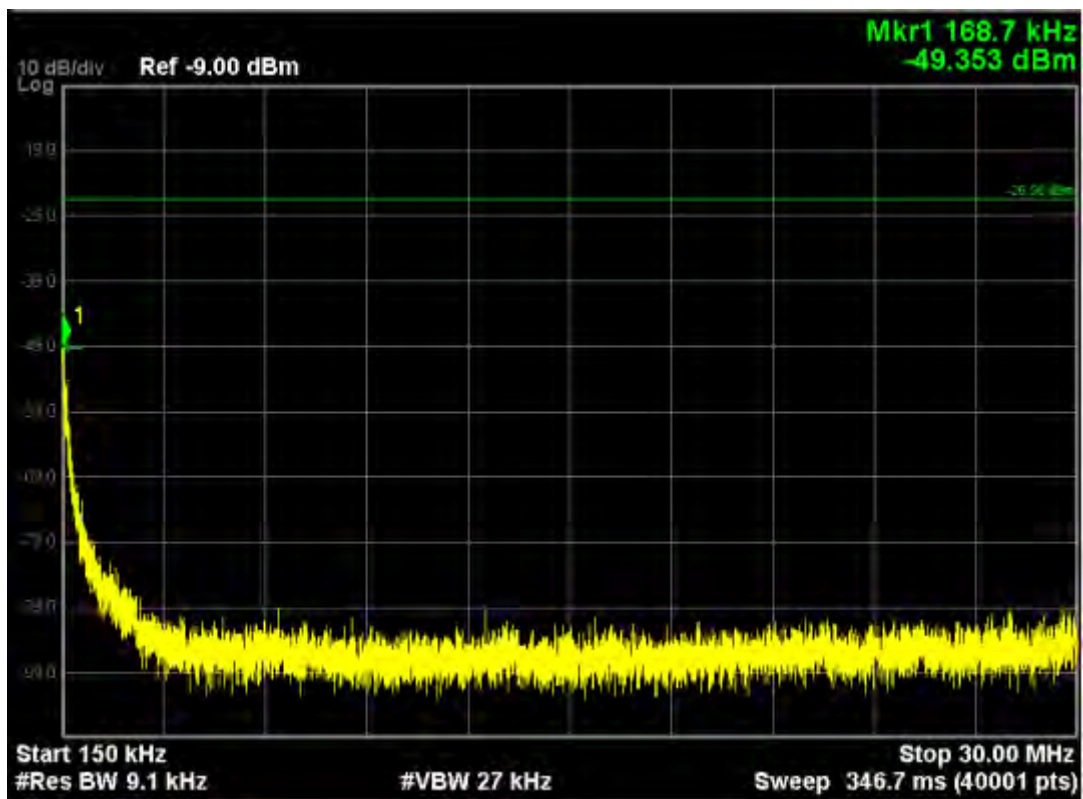
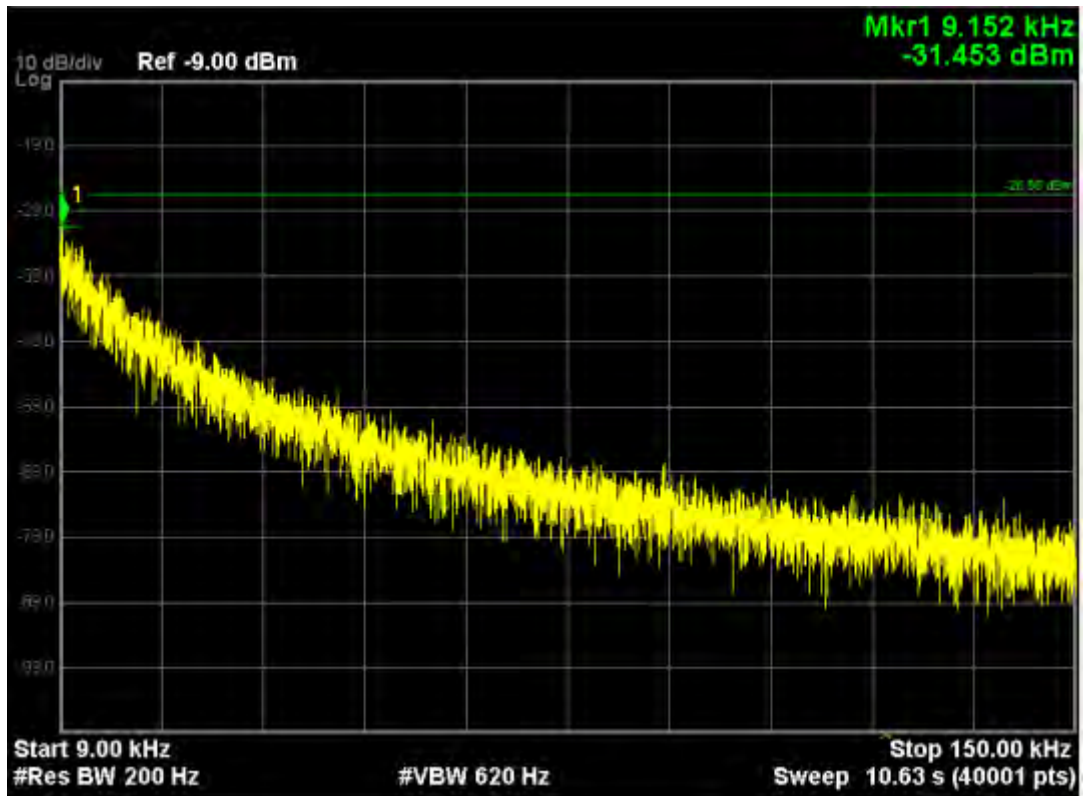


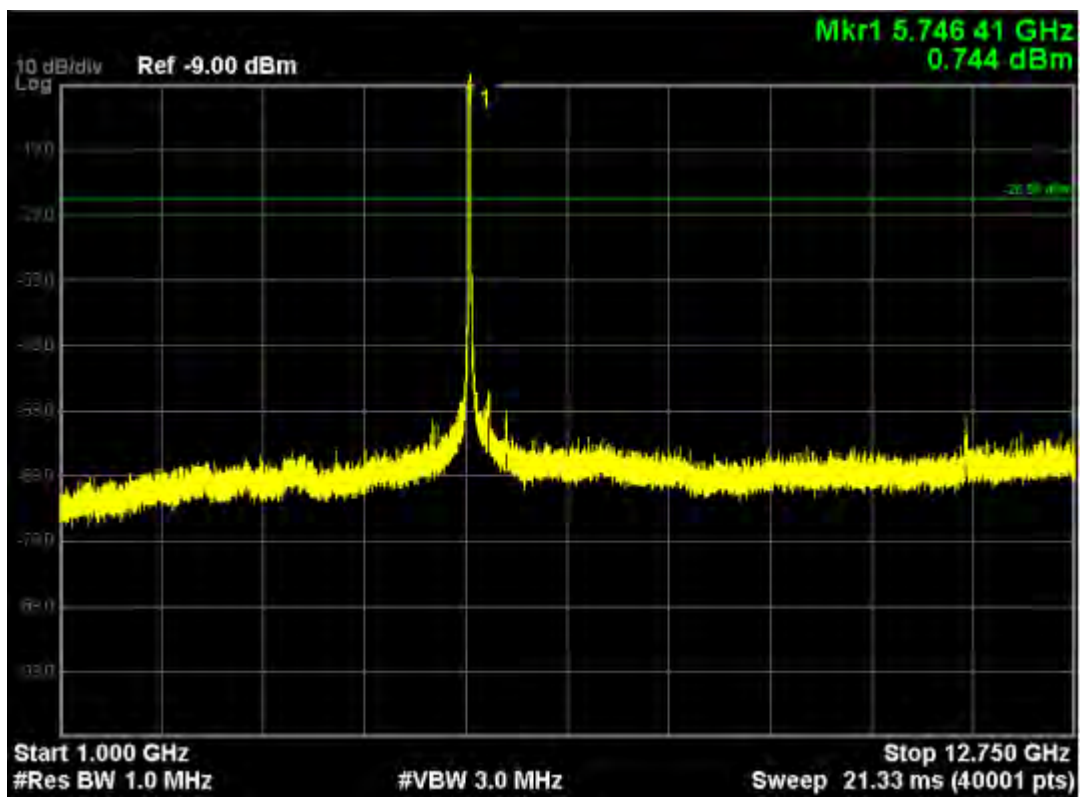
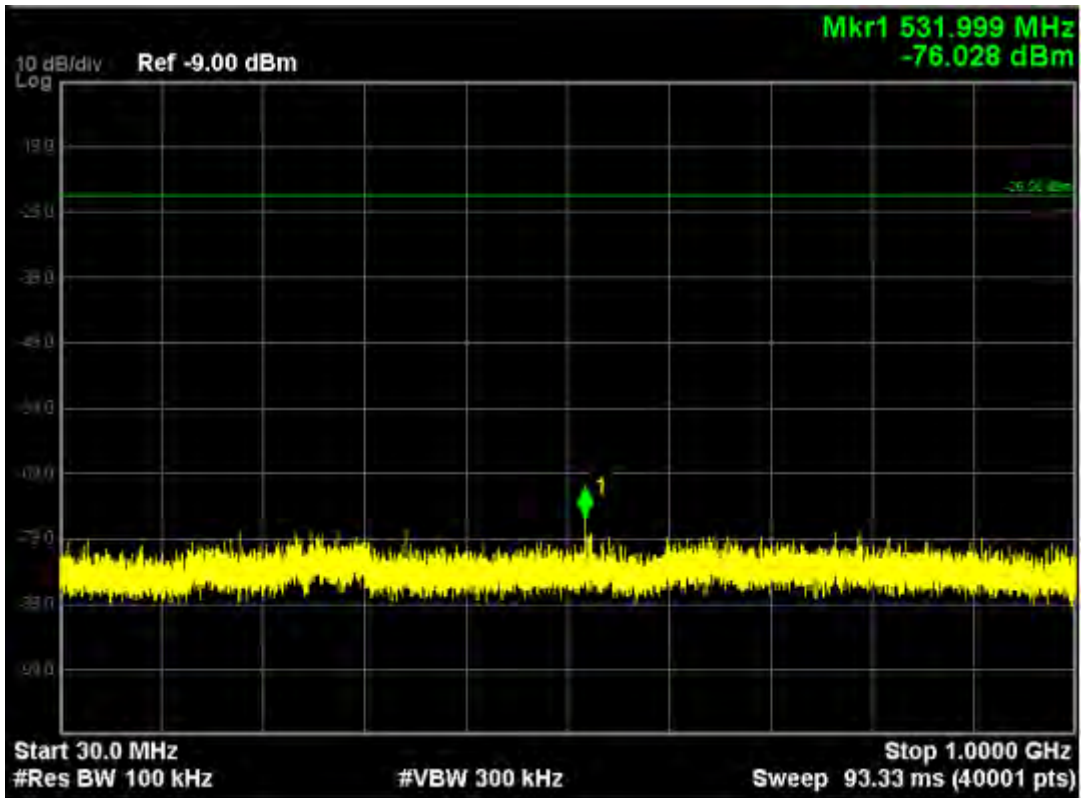


Note: The Mark1 point is carrier.

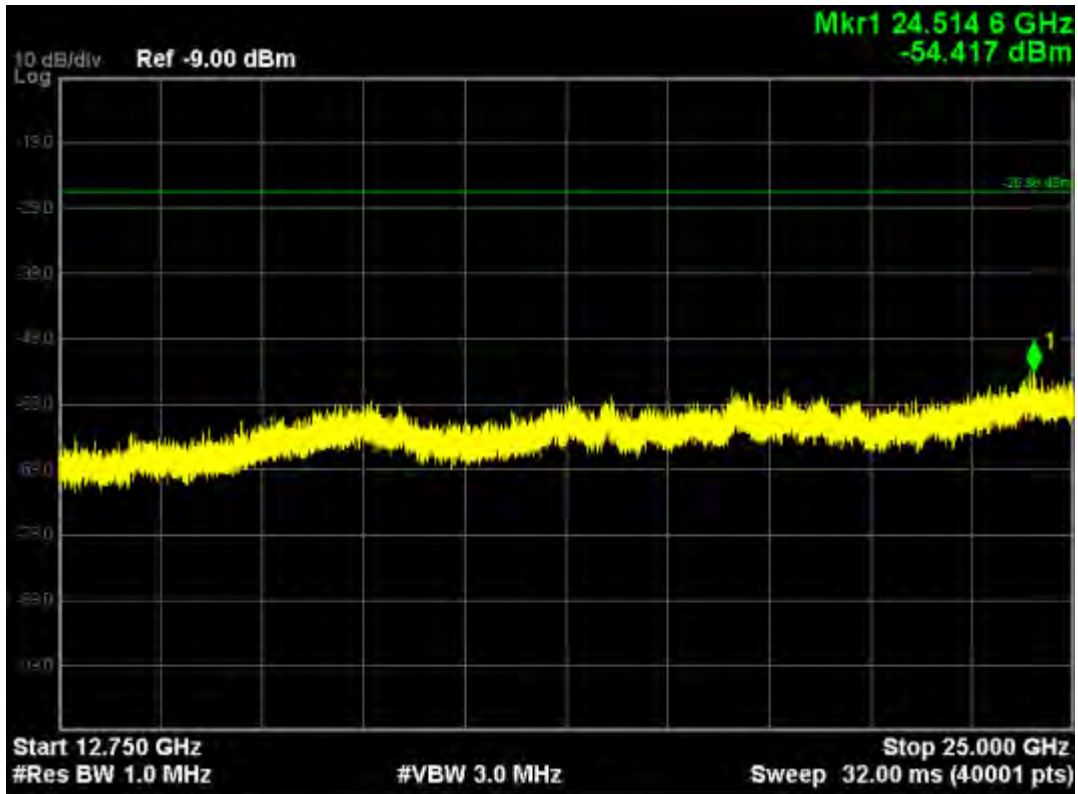


802.11n20, traffic mode; Channel 149

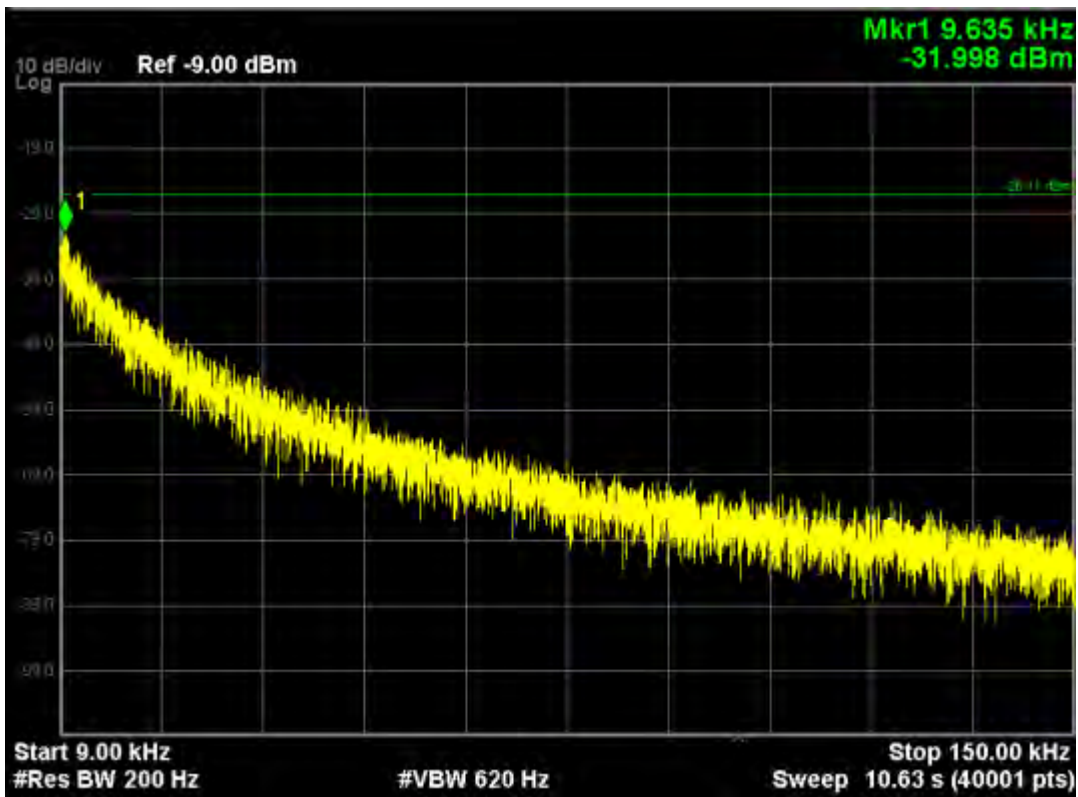


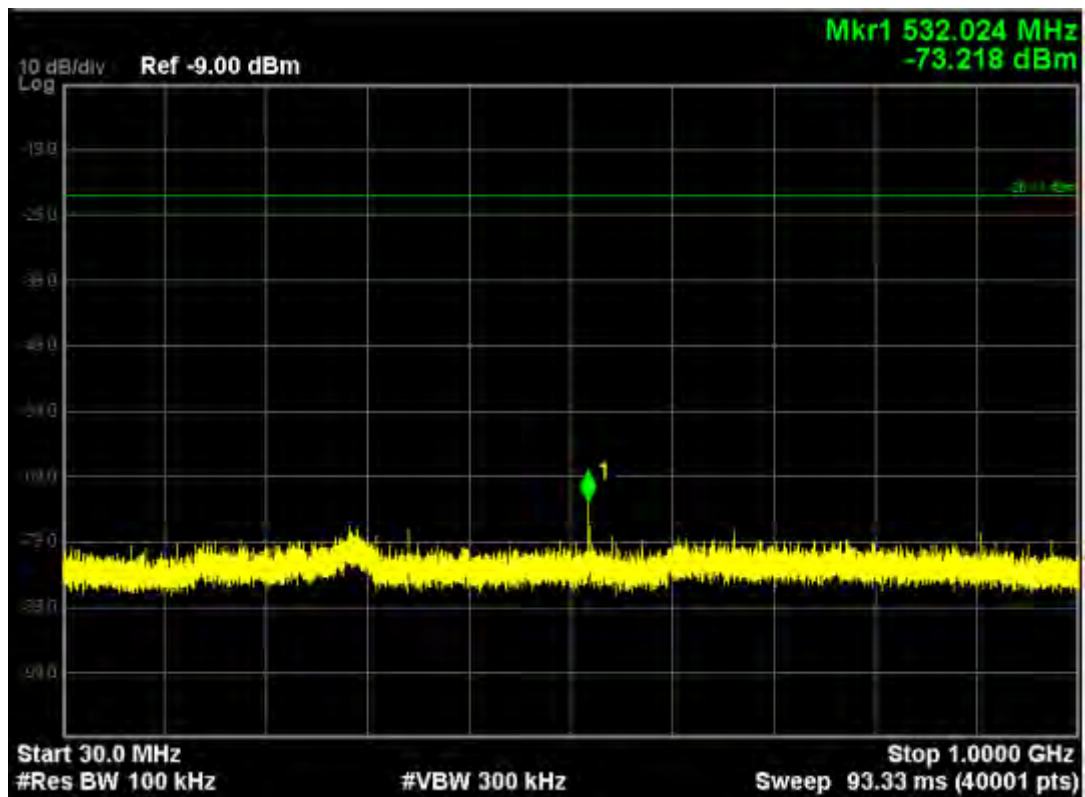
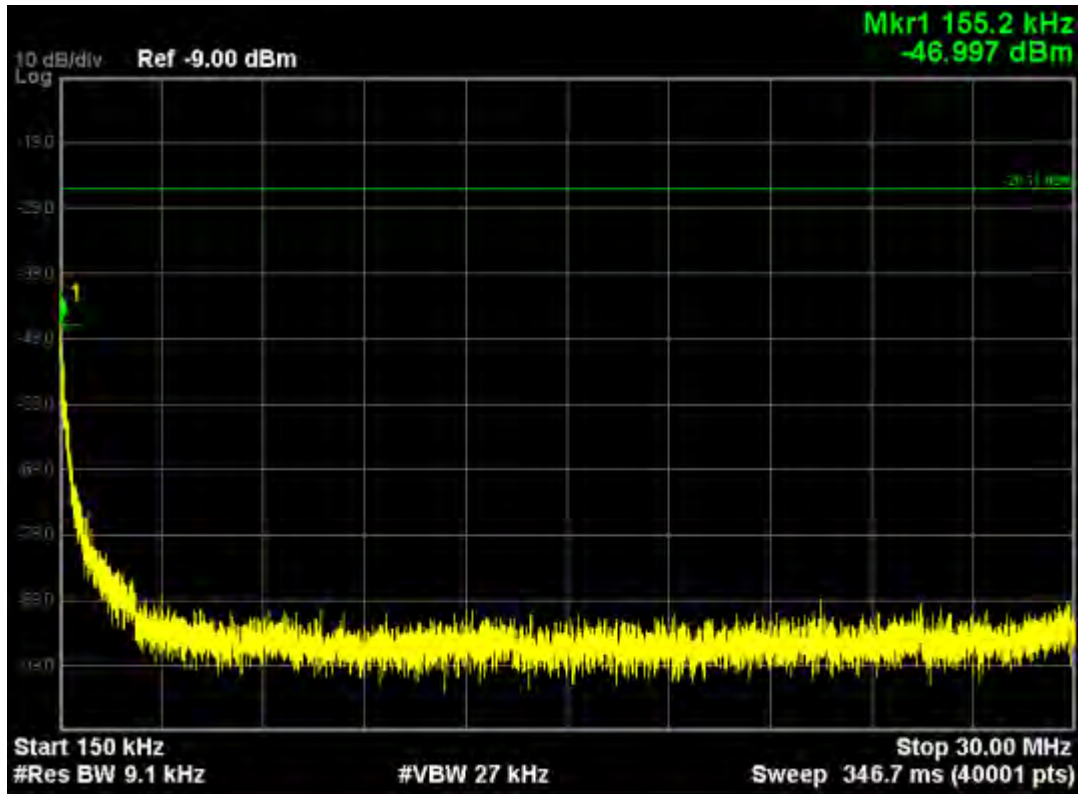


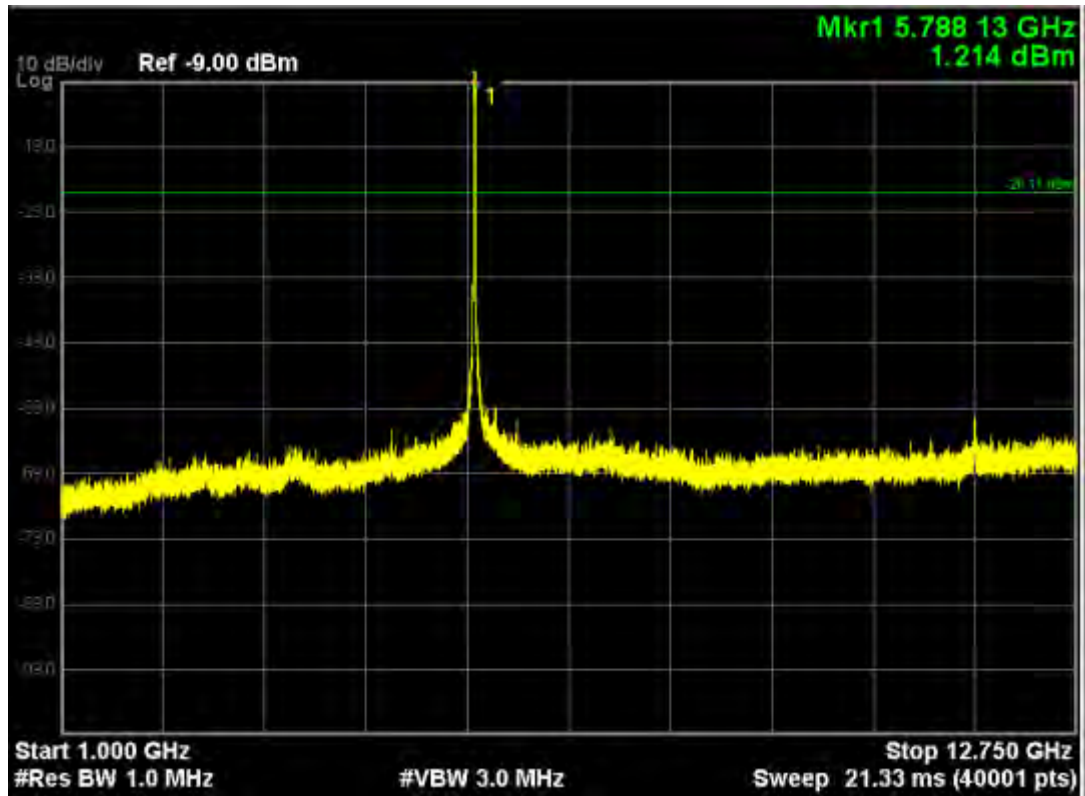
Note: The Mark1 point is carrier.



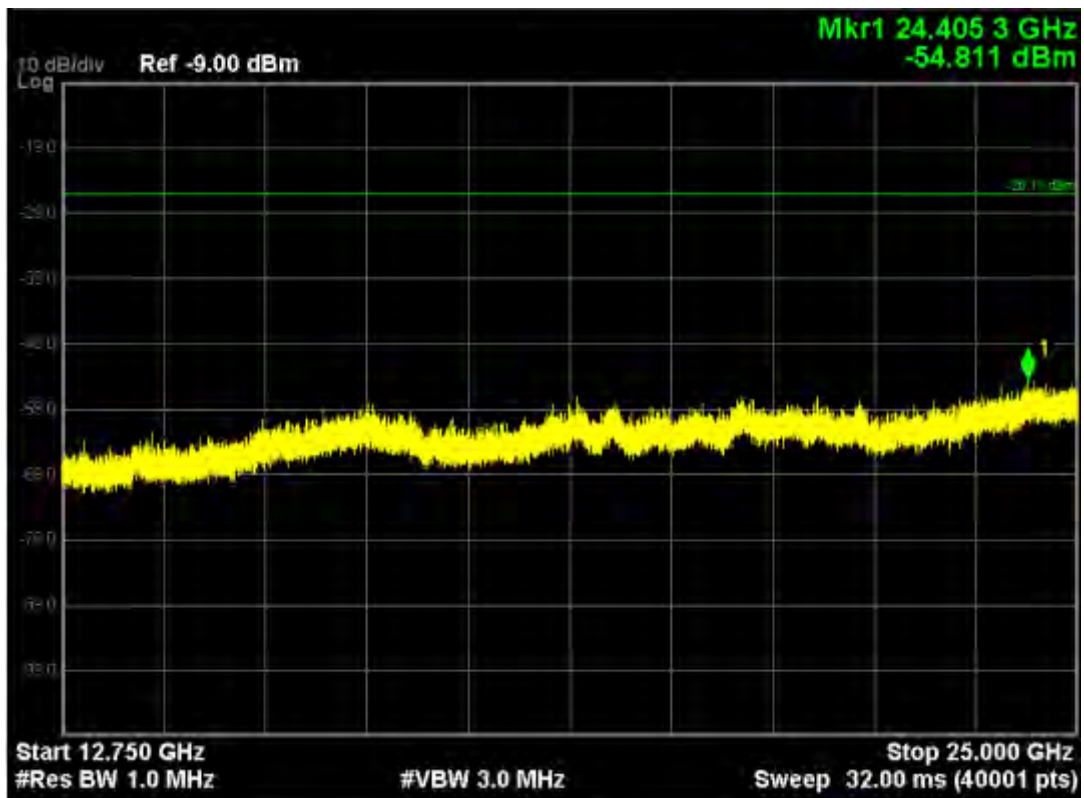
802.11n20, traffic mode; Channel 157



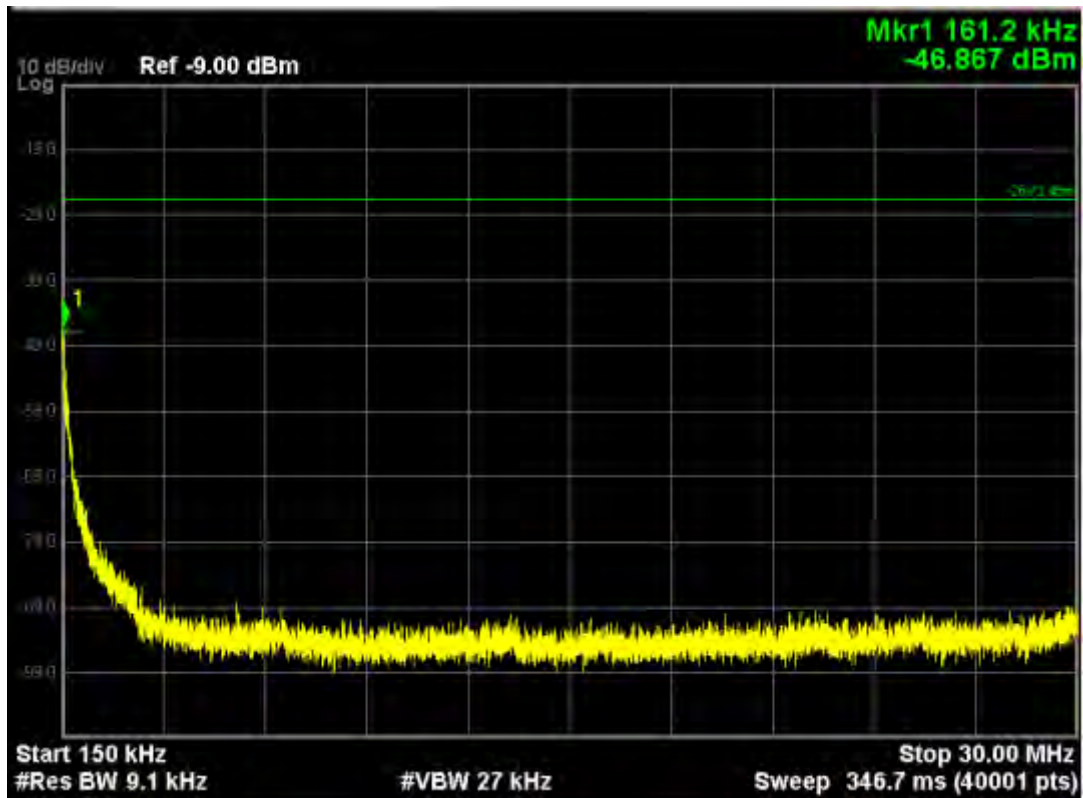
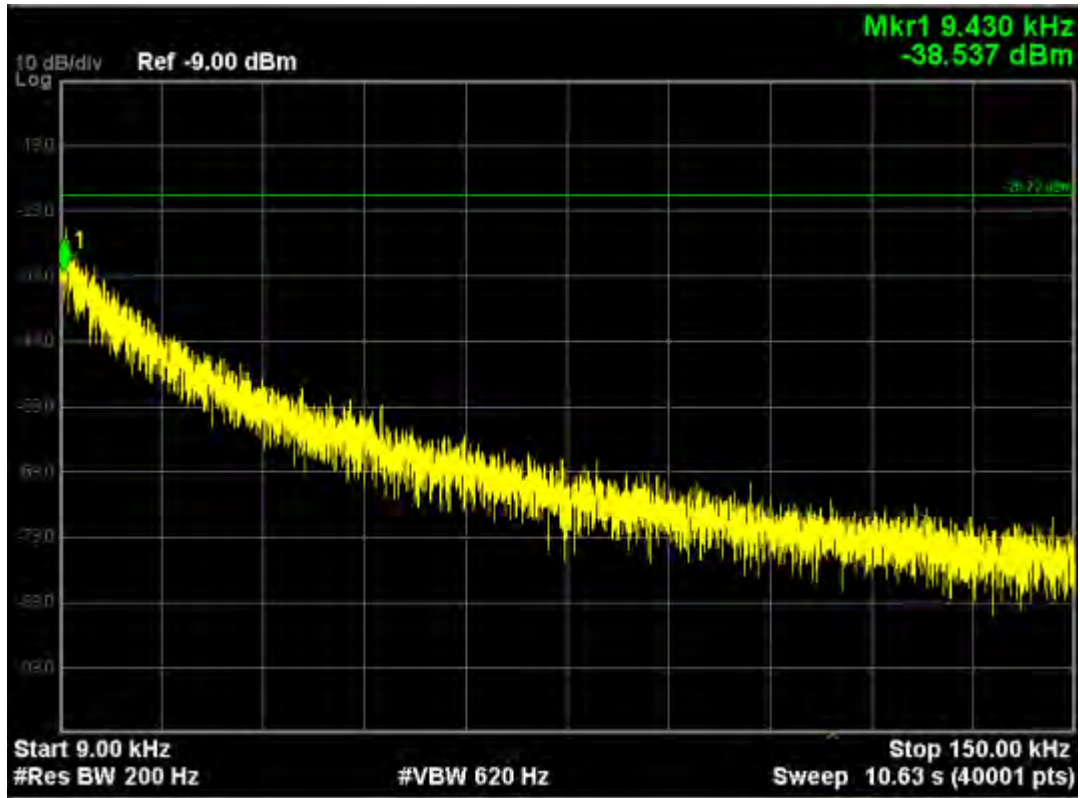


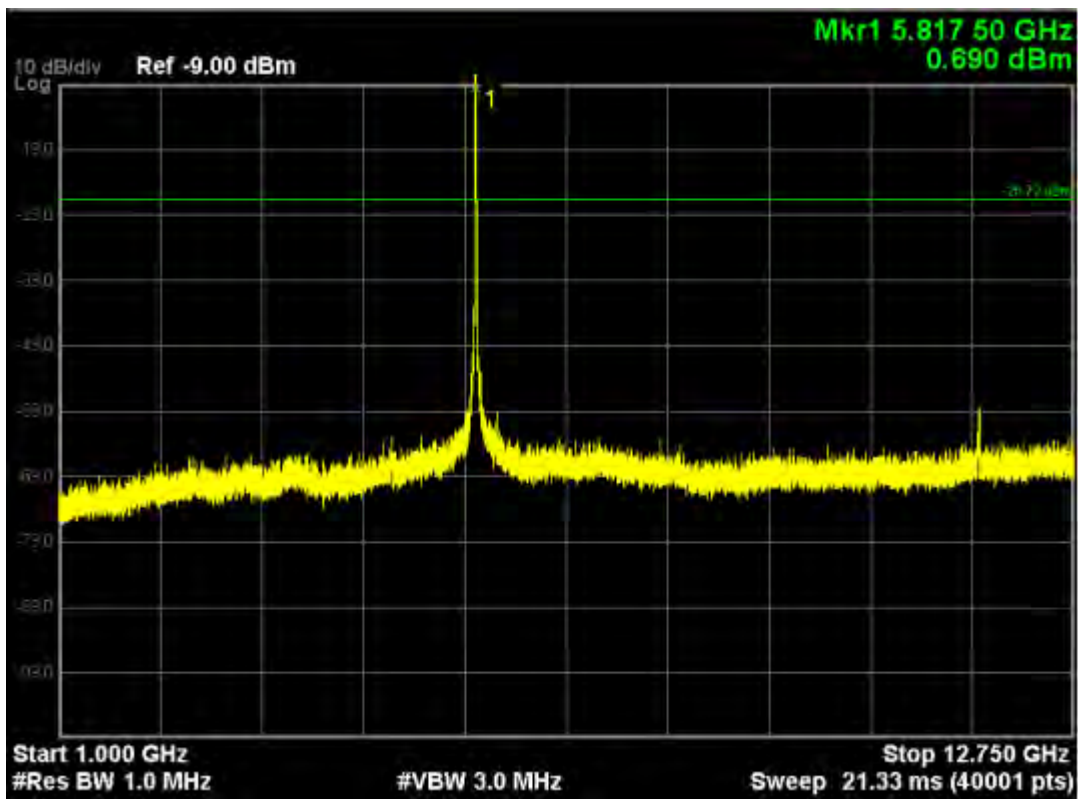
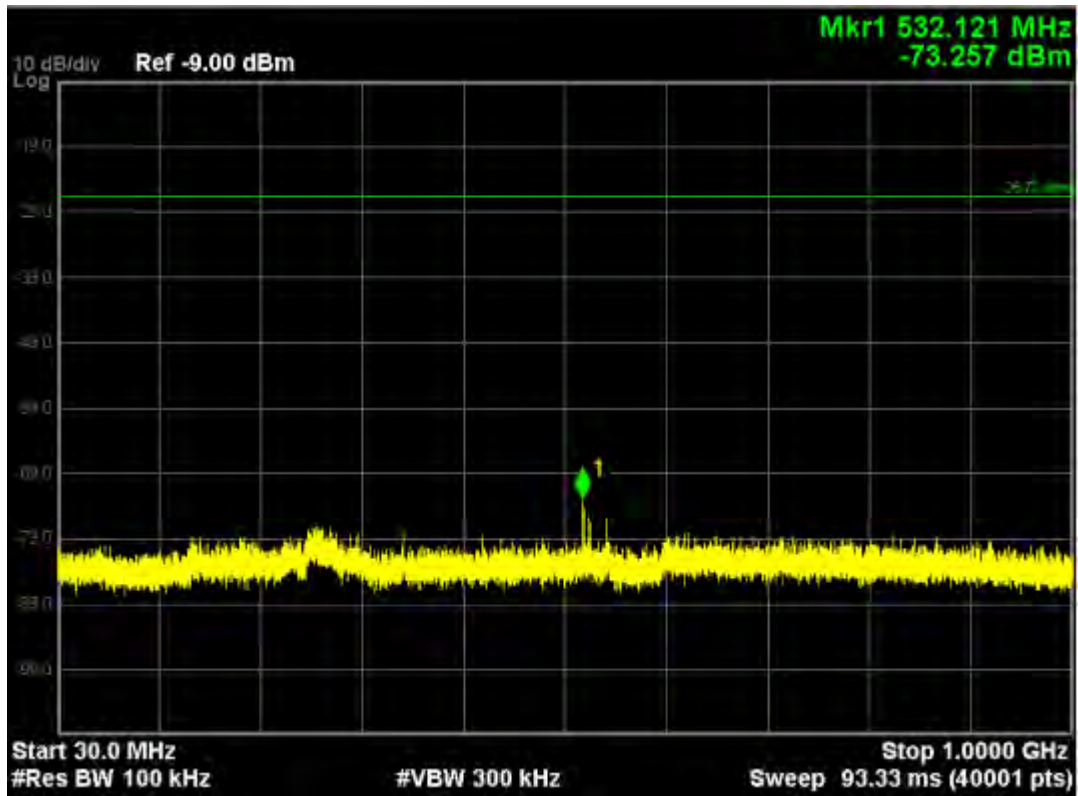


Note: The Mark1 point is carrier.

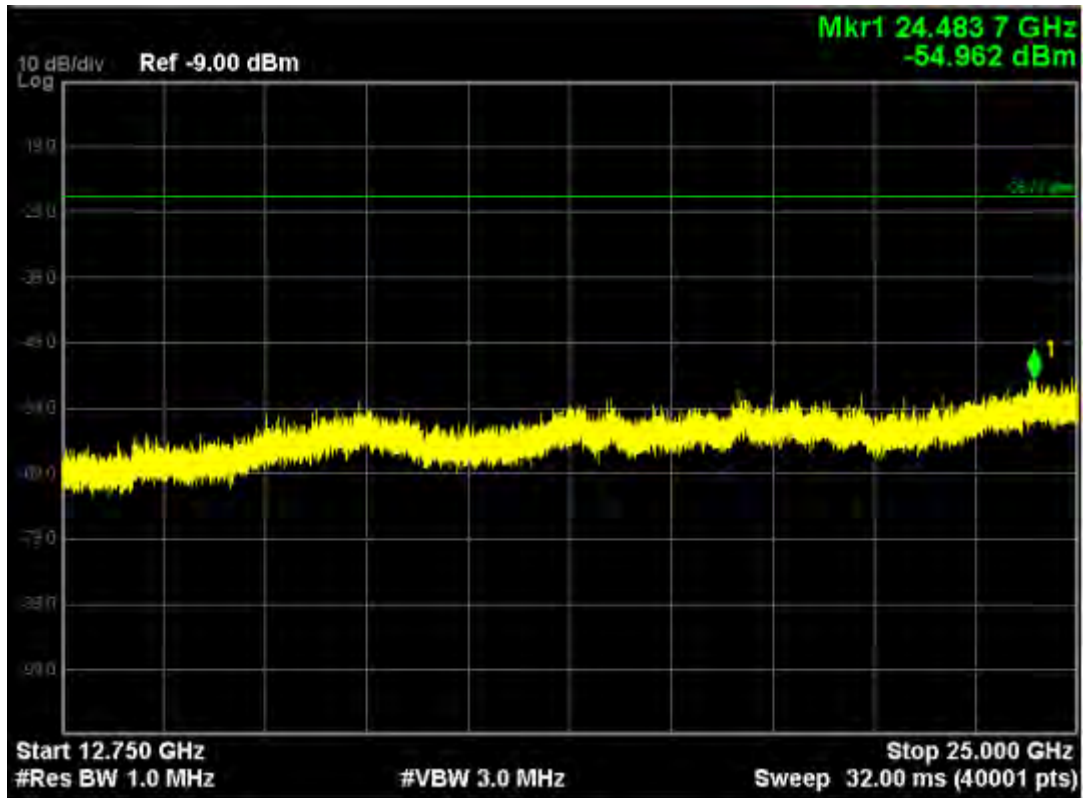


802.11n20, traffic mode; Channel 165

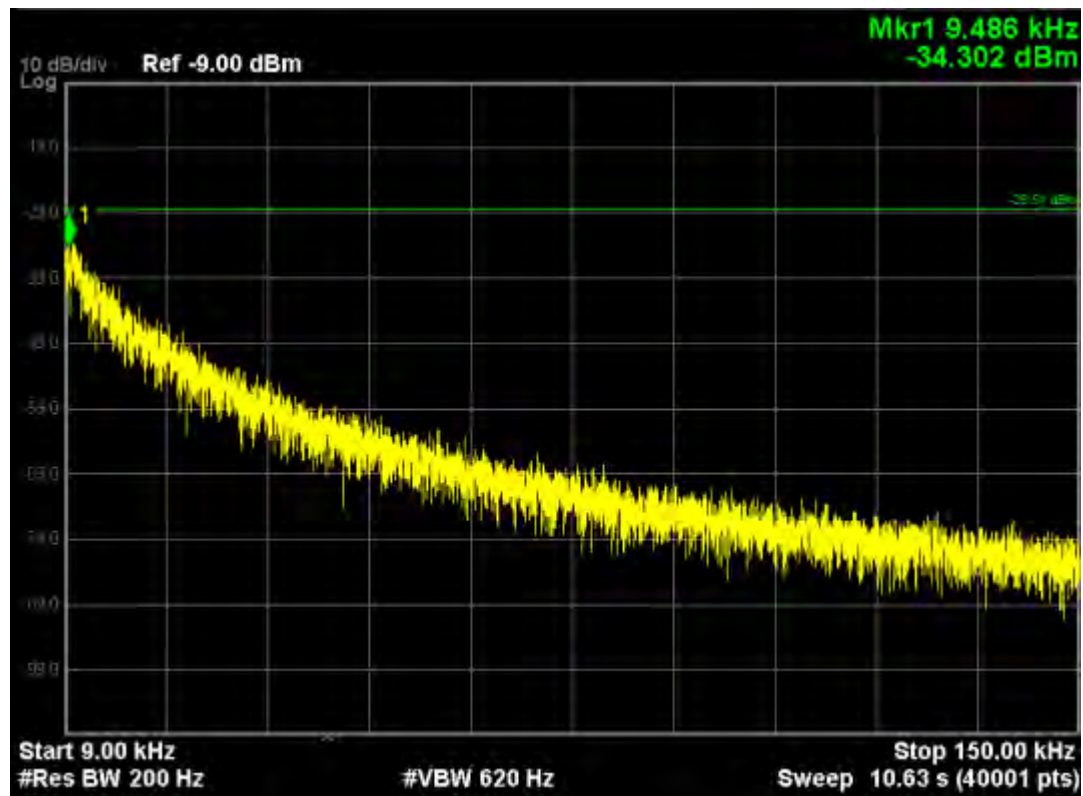


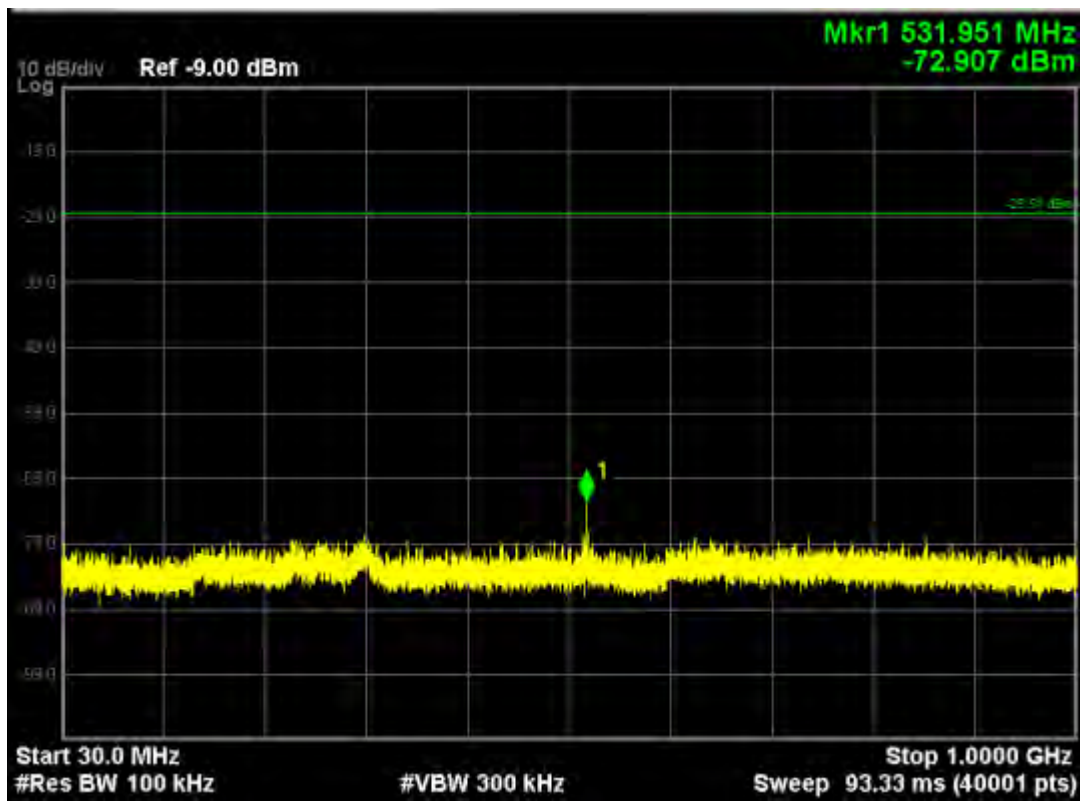
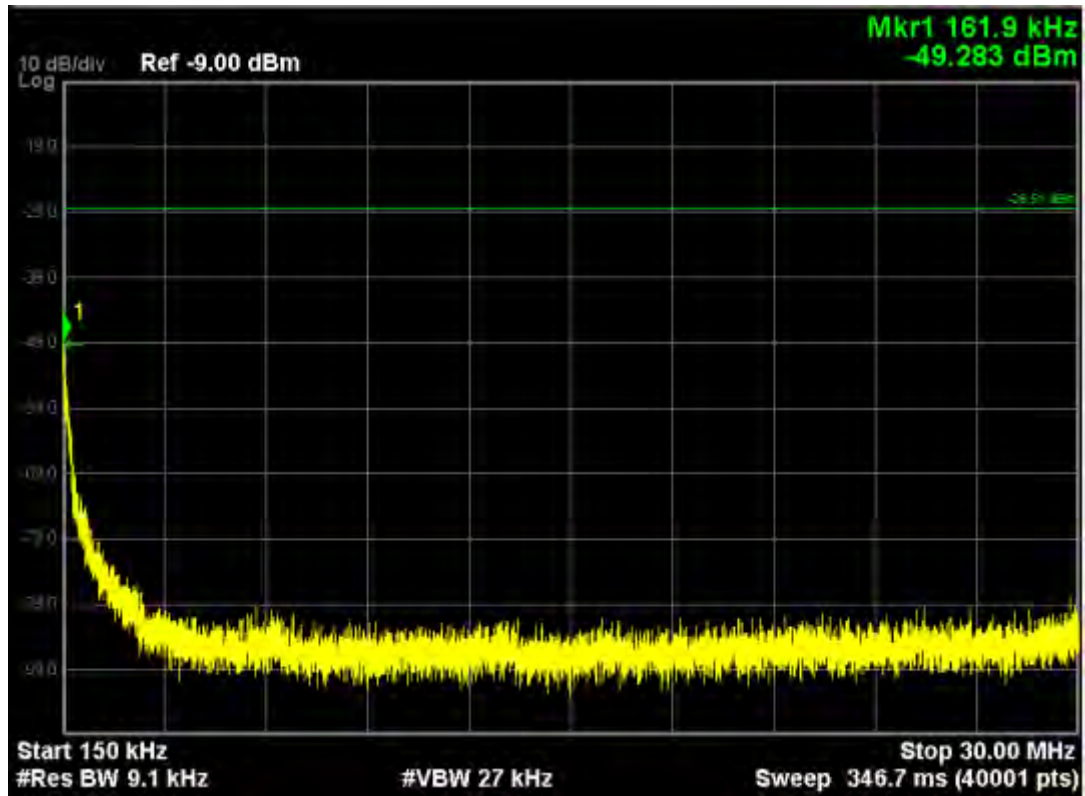


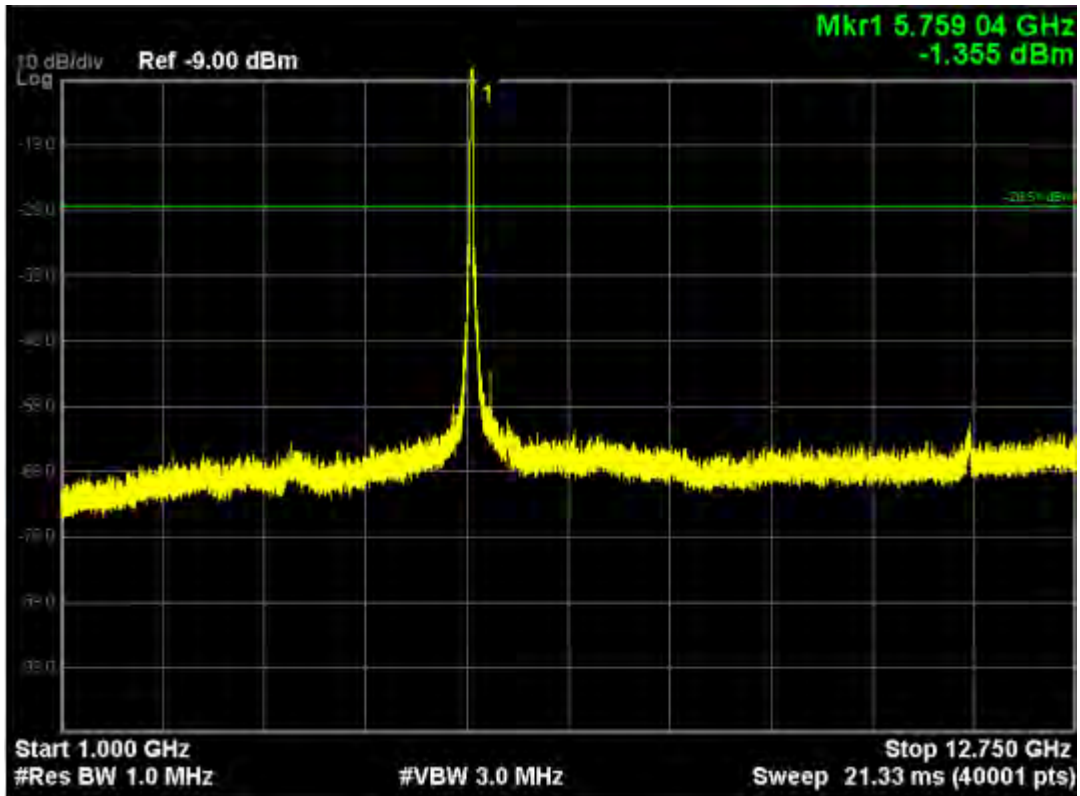
Note: The Mark1 point is carrier.



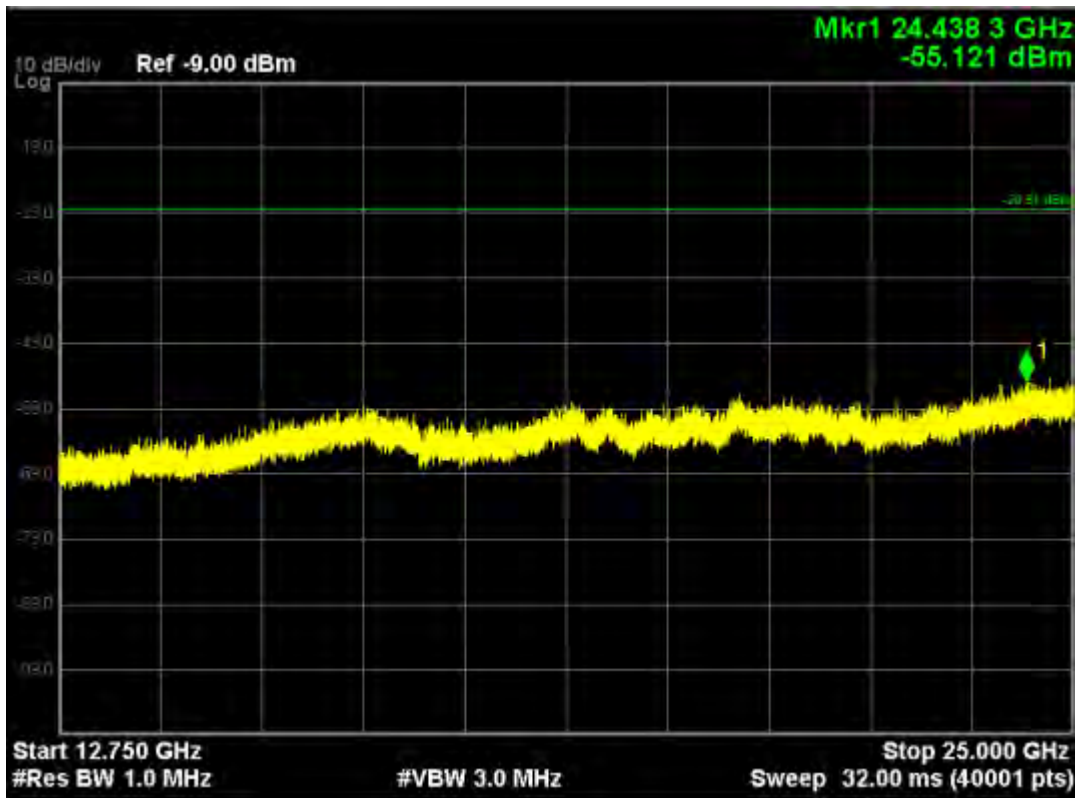
802.11n40, traffic mode; Channel 151



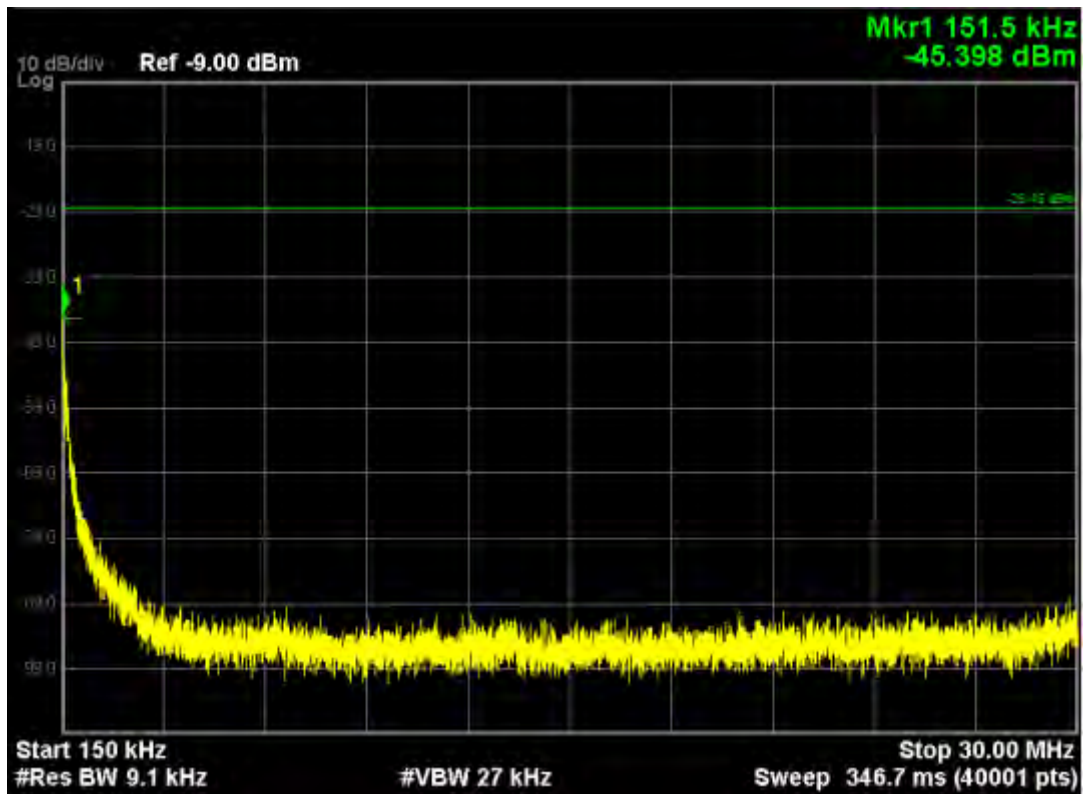
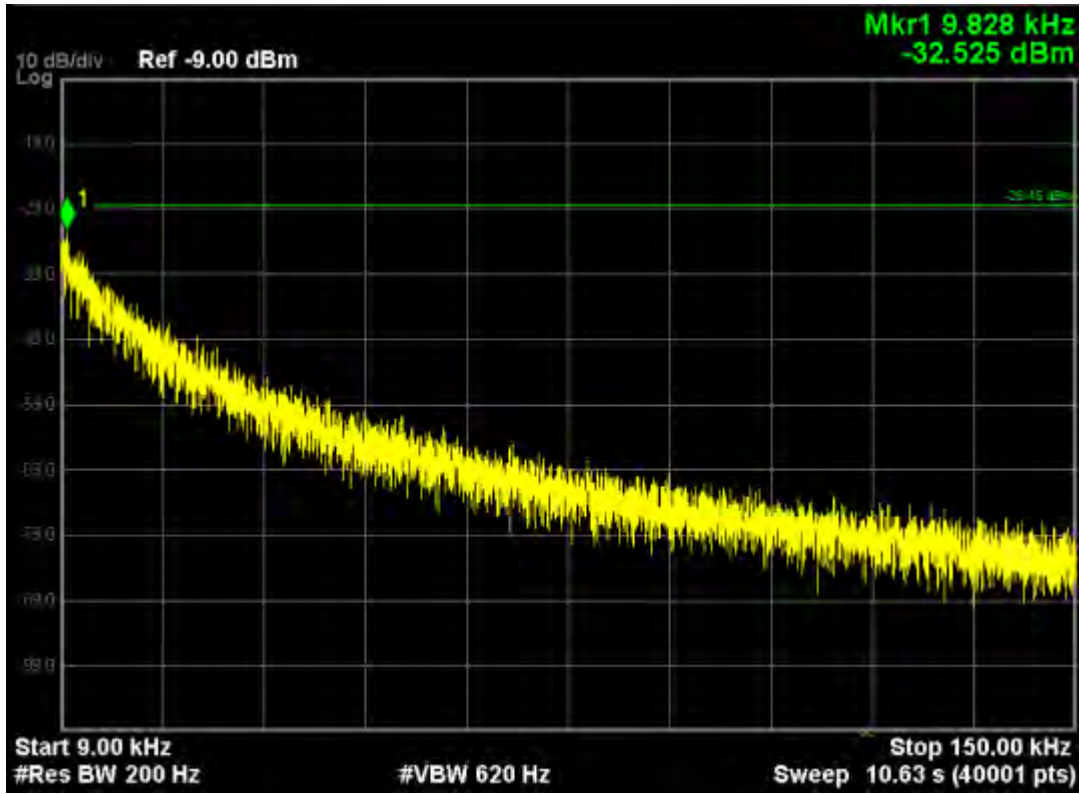


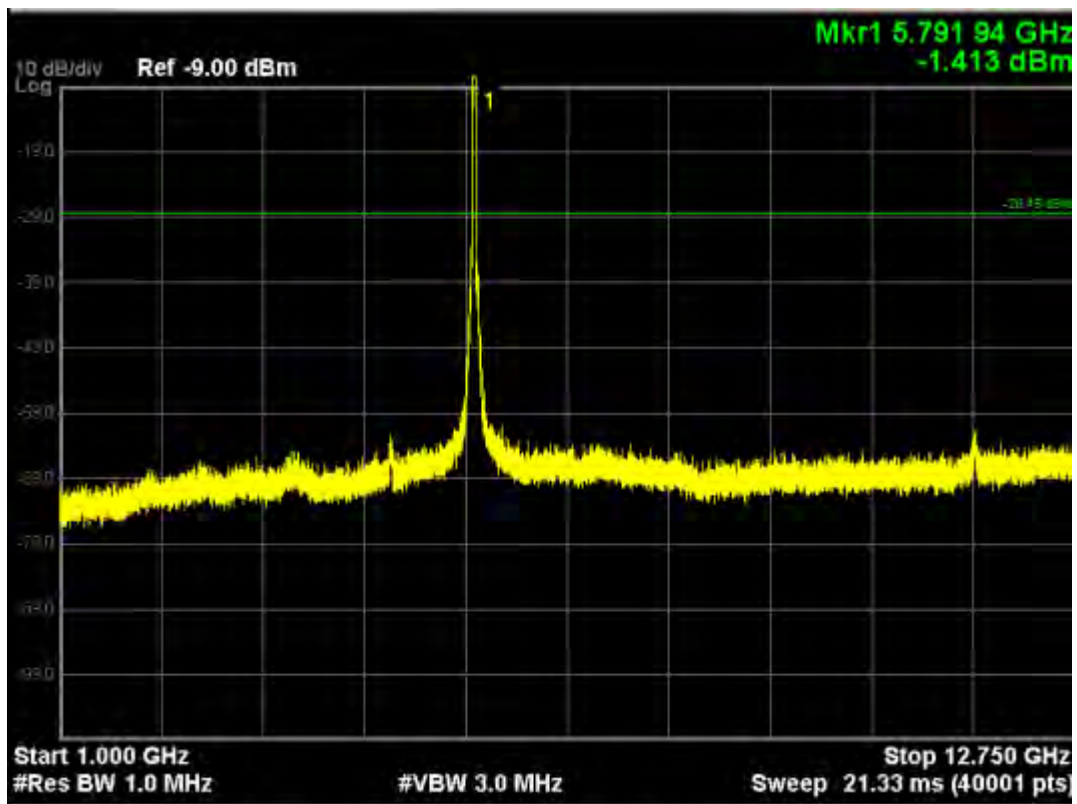
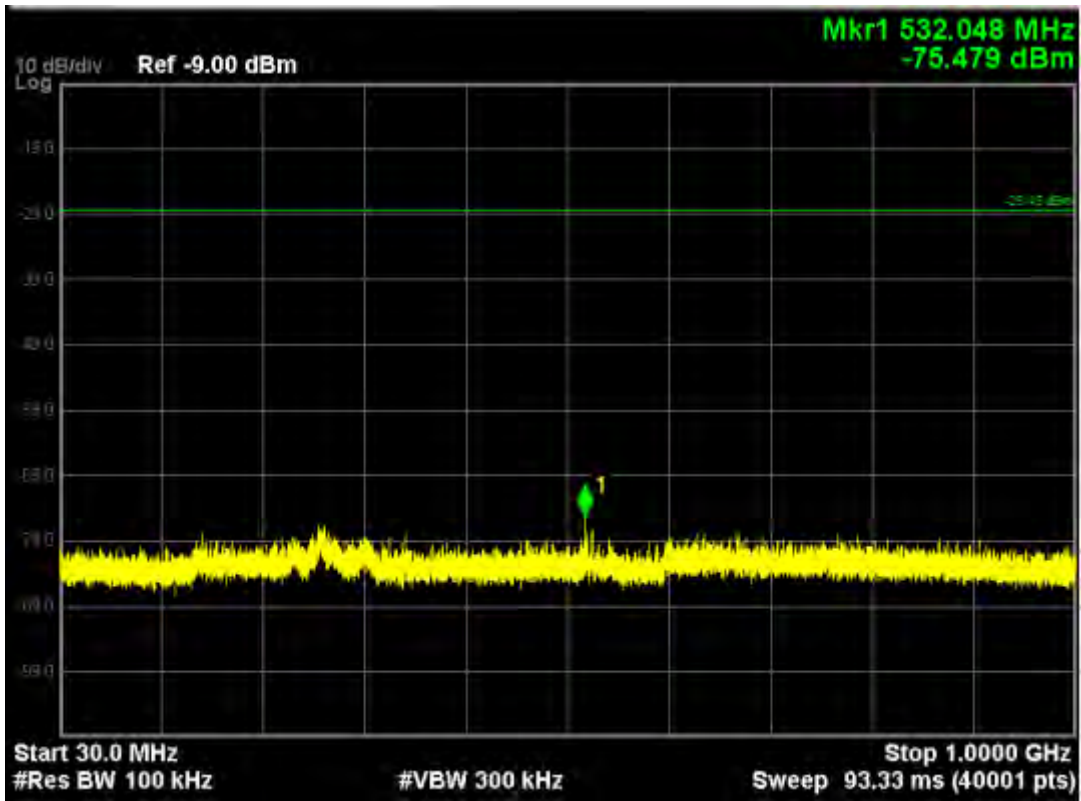


Note: The Mark1 point is carrier.

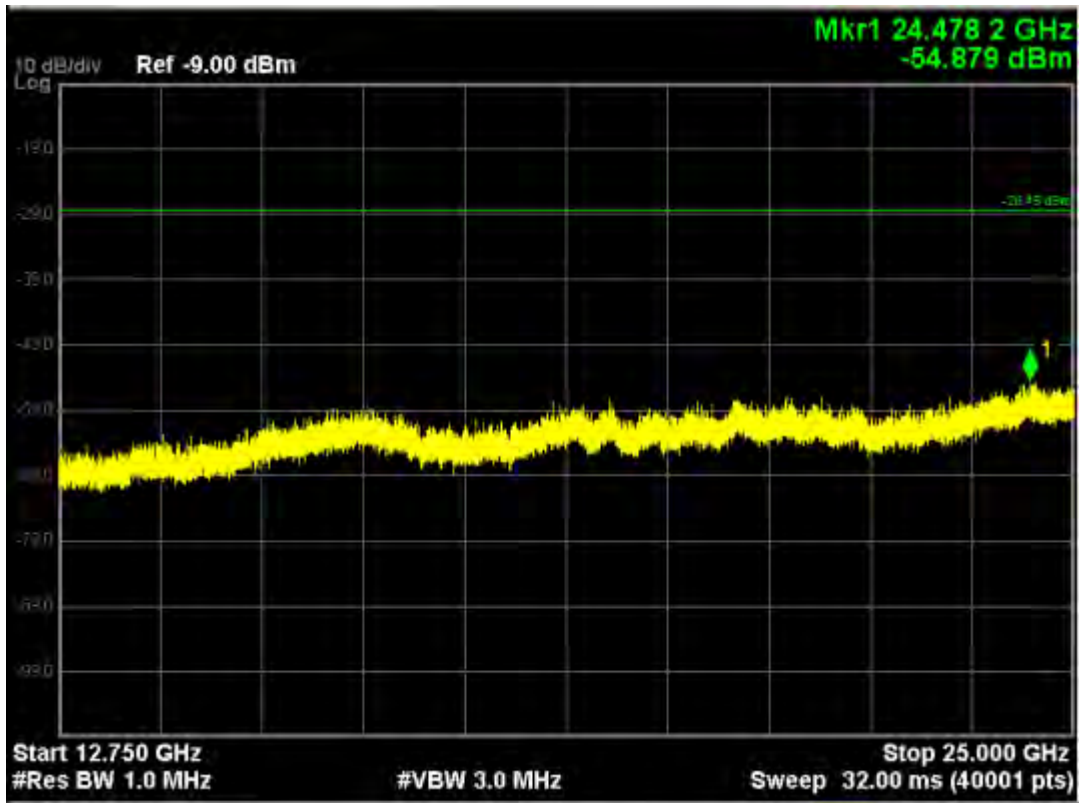


802.11n40, traffic mode; Channel 159

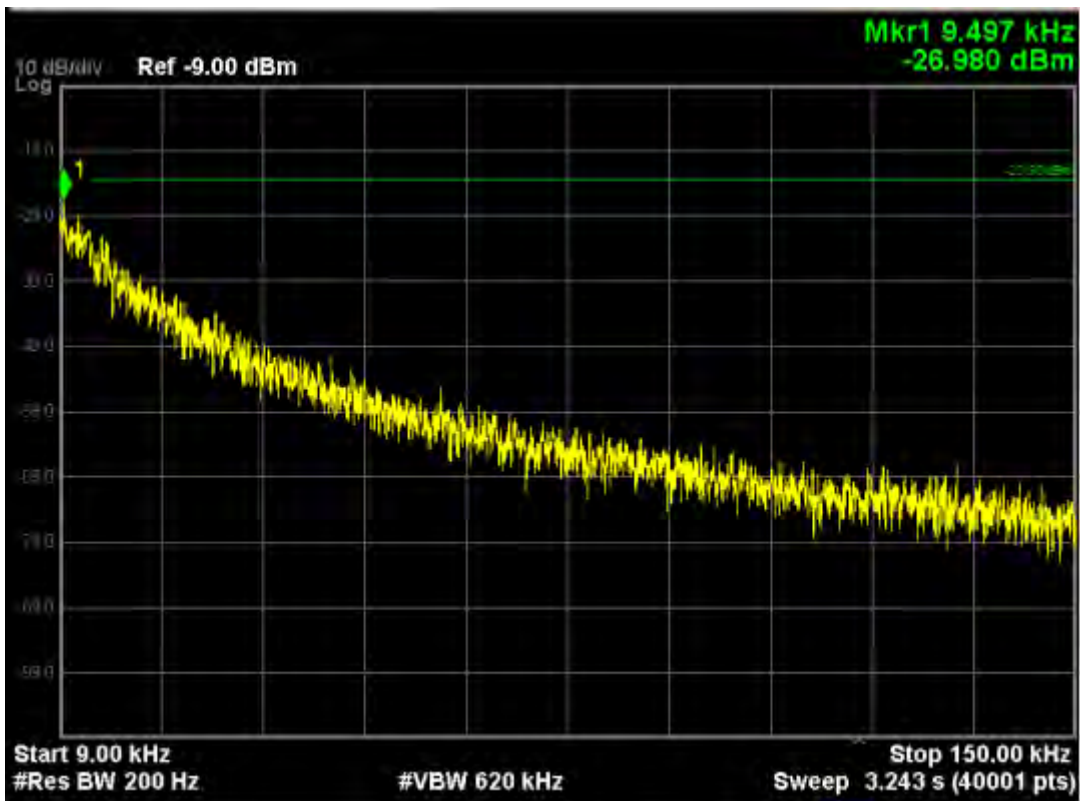


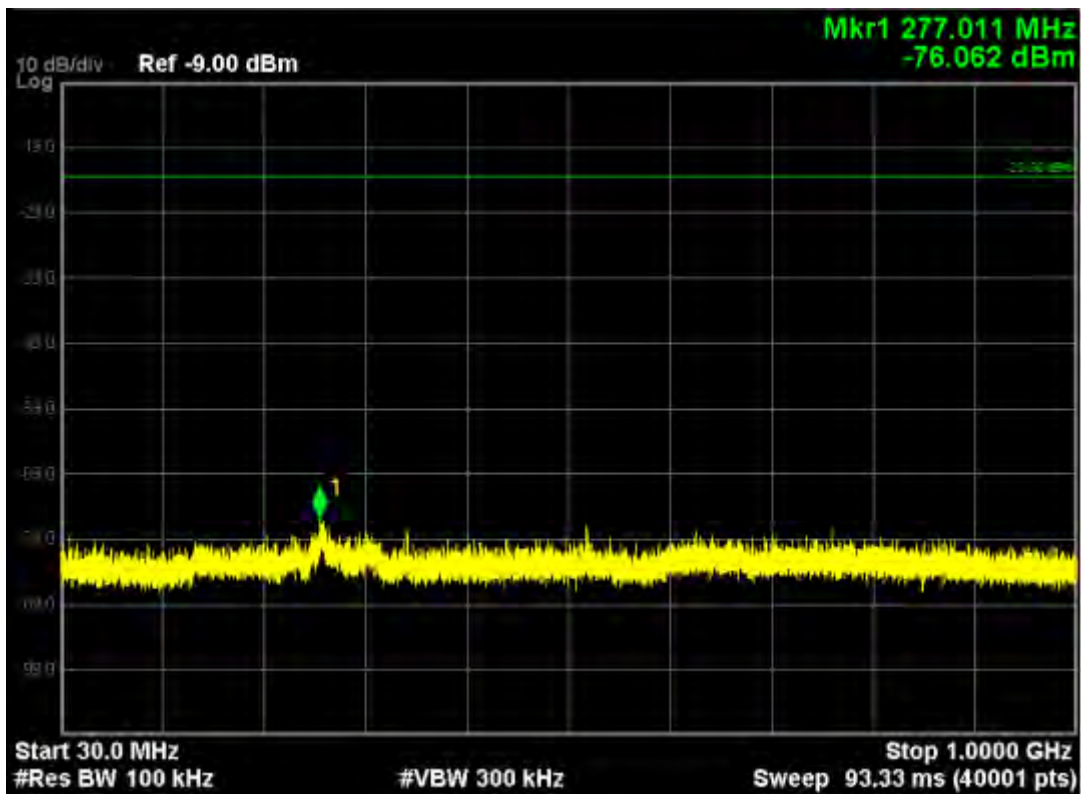
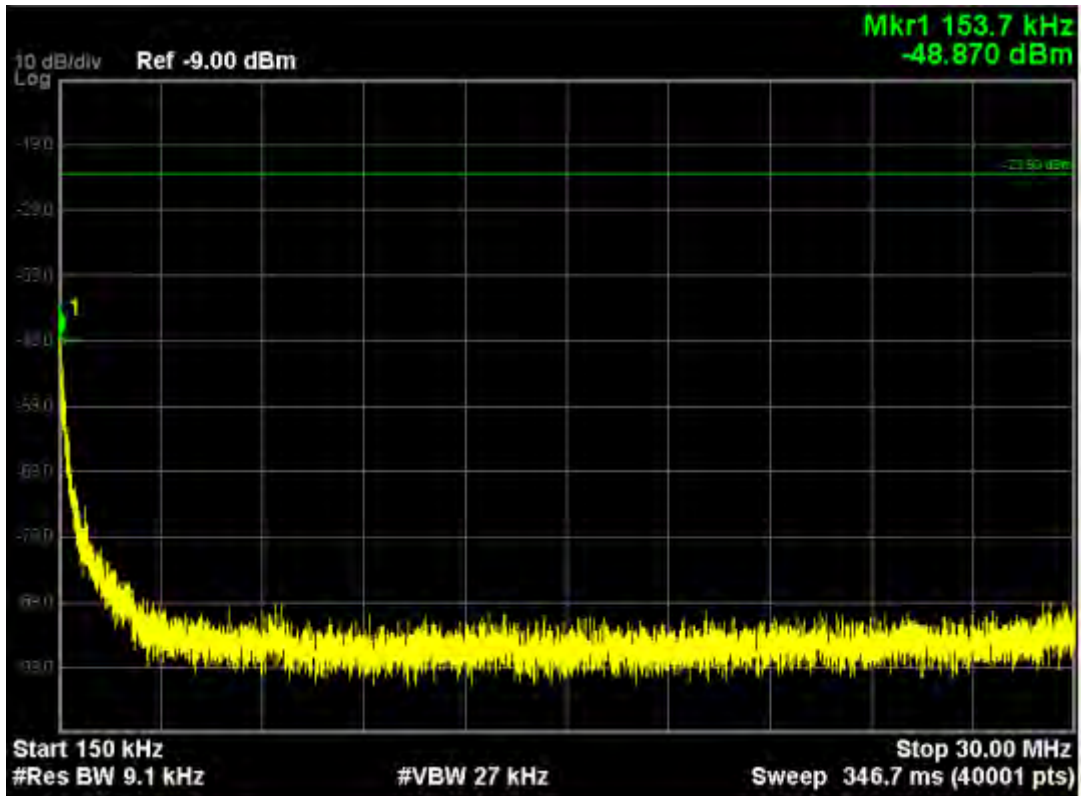


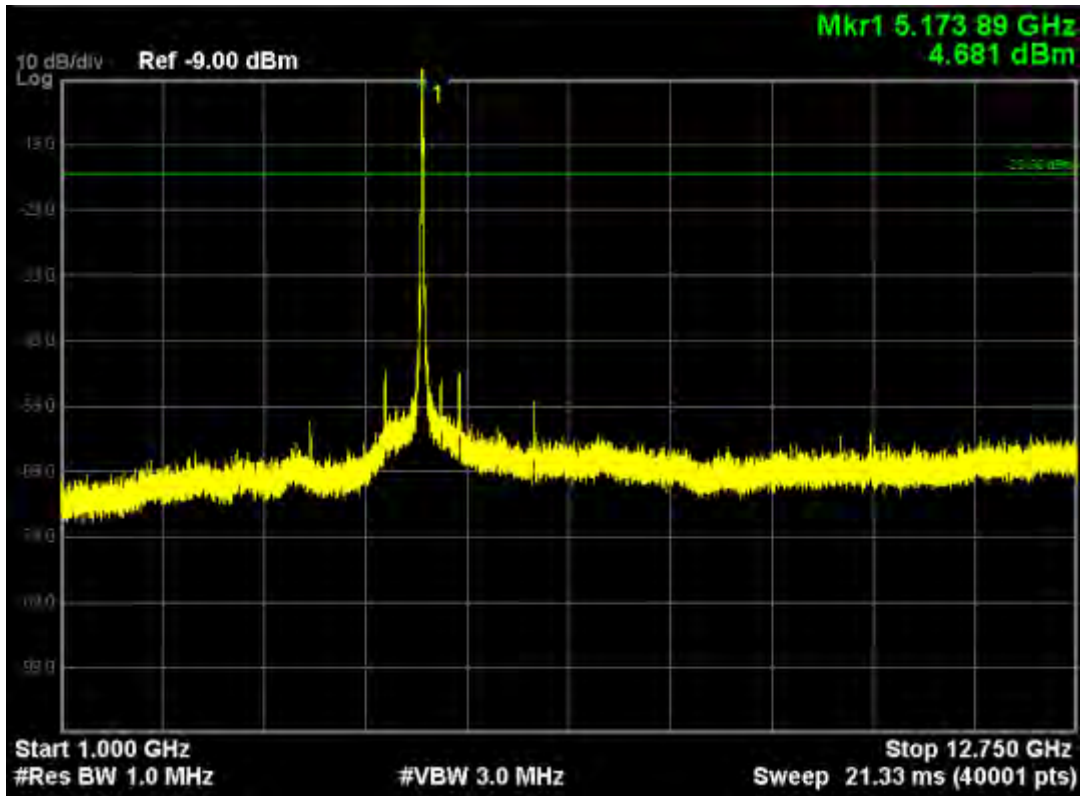
Note: The Mark1 point is carrier.



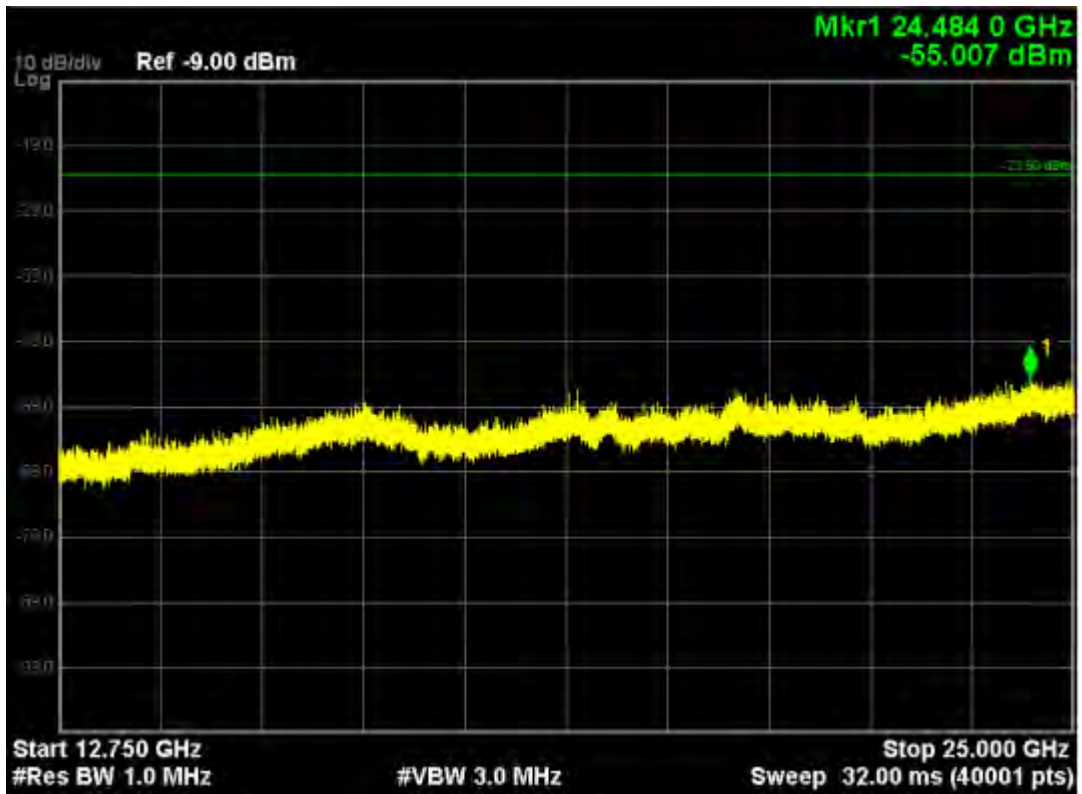
802.11ac (5150MHz-5250MHz)
802.11ac20, traffic mode; Channel 36



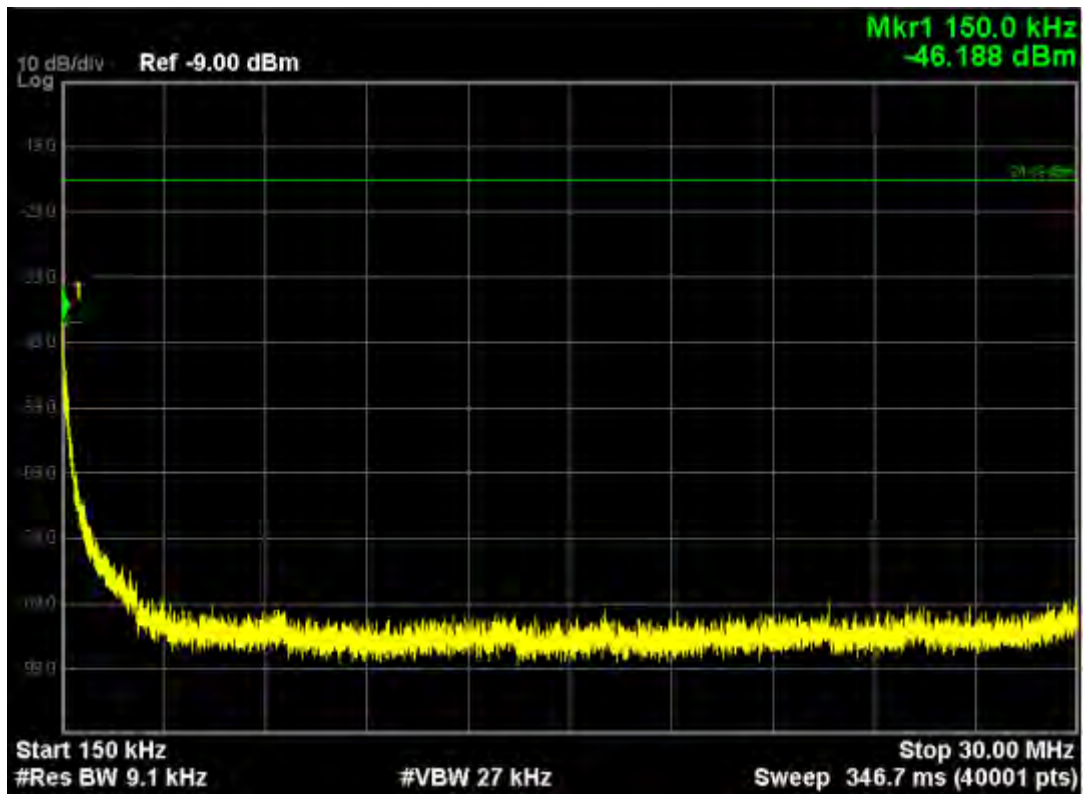
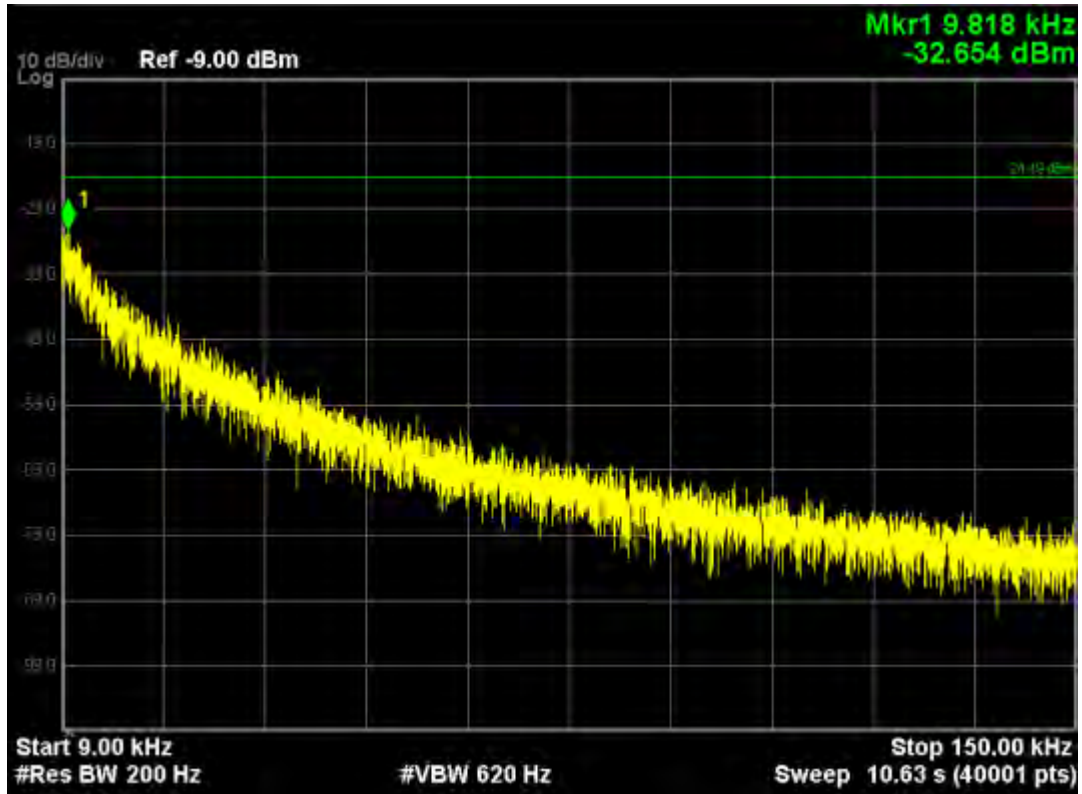


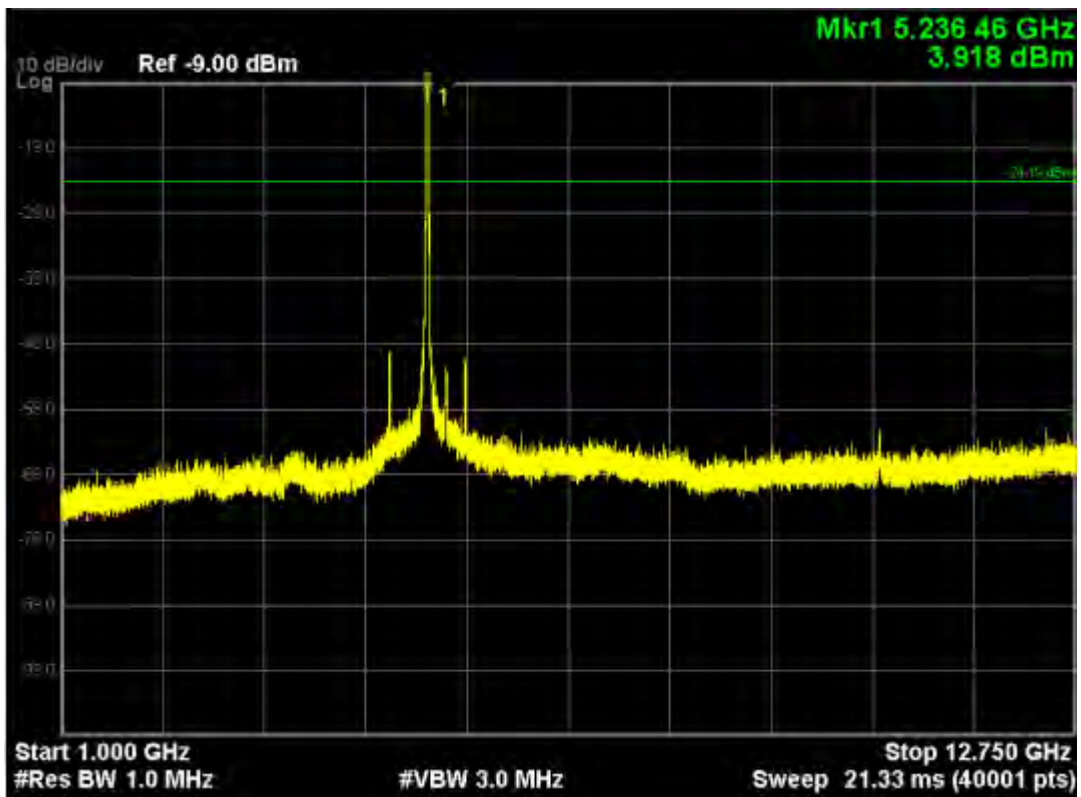
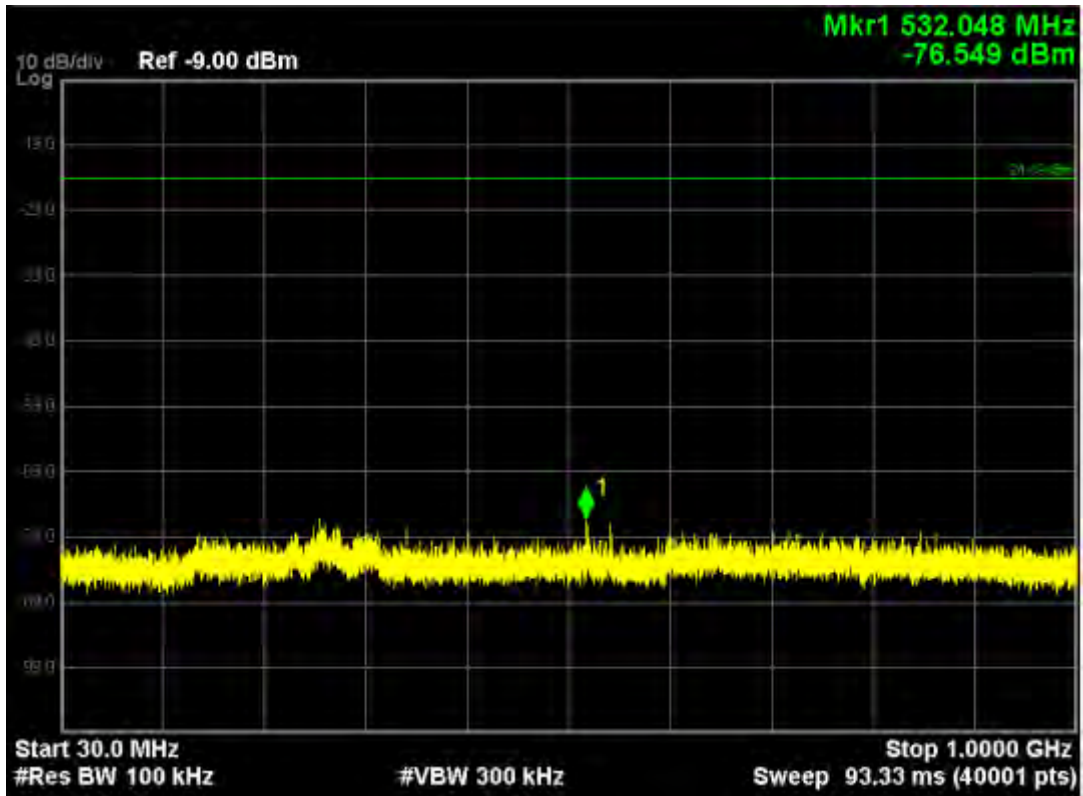


Note: The Mark1 point is carrier.

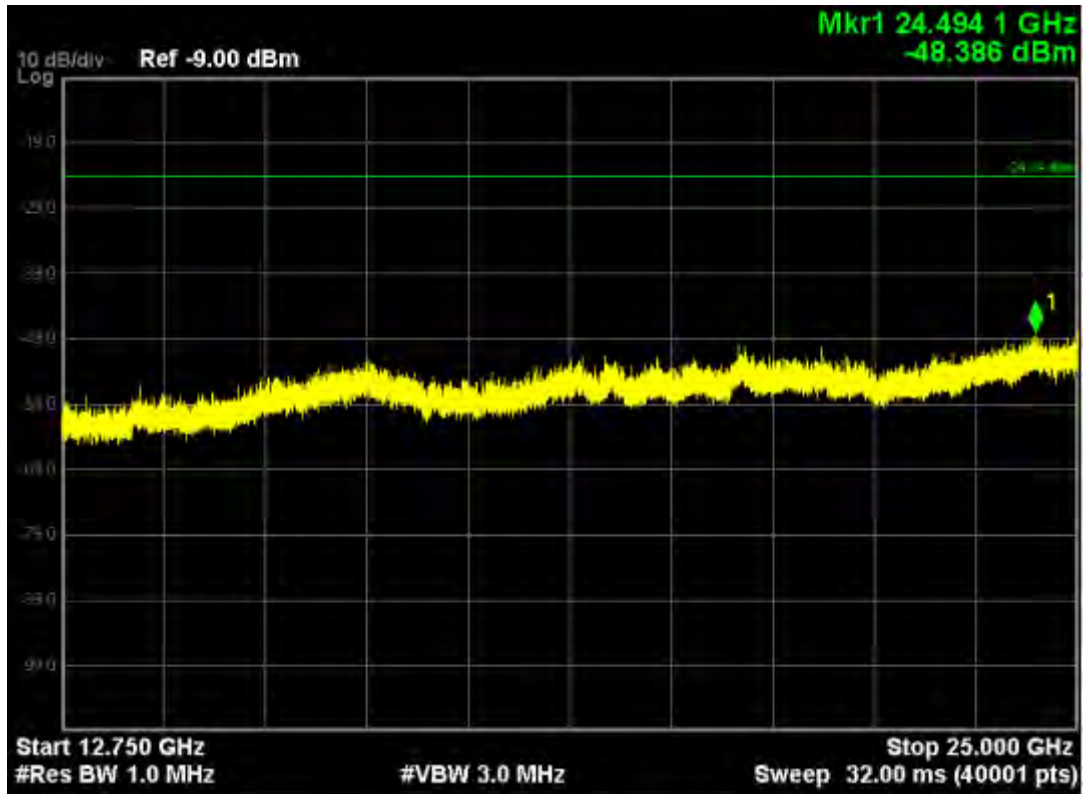


802.11ac20, traffic mode; Channel 48

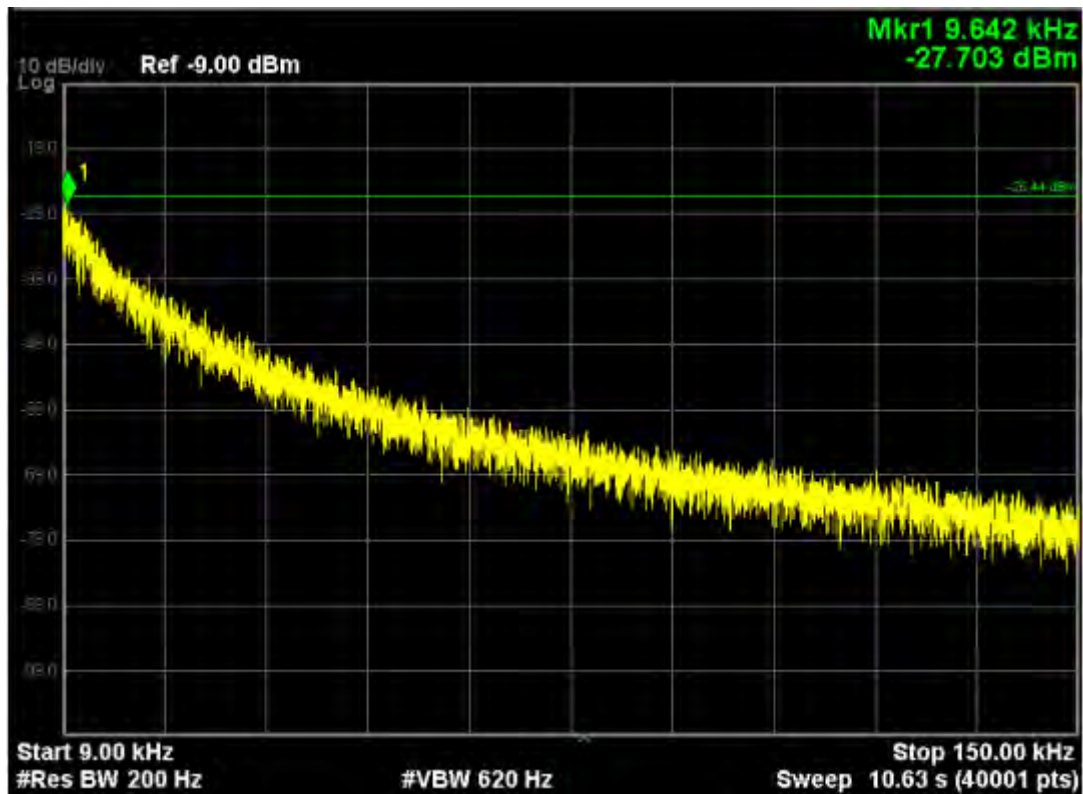


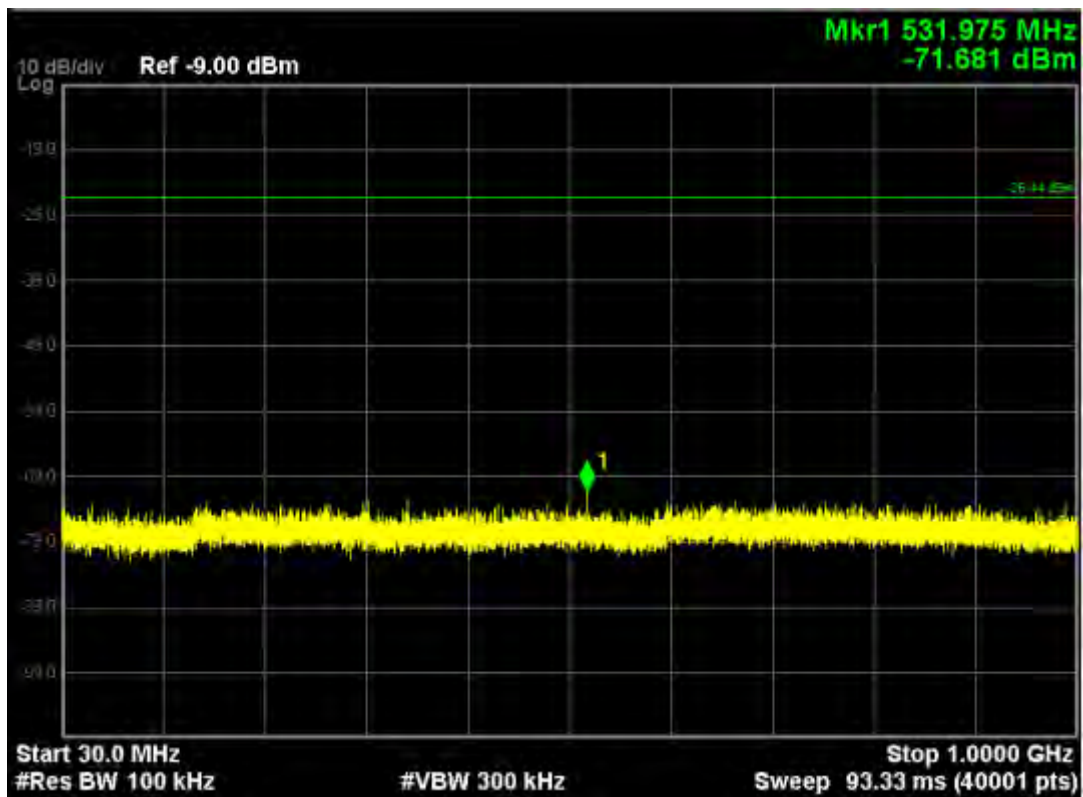
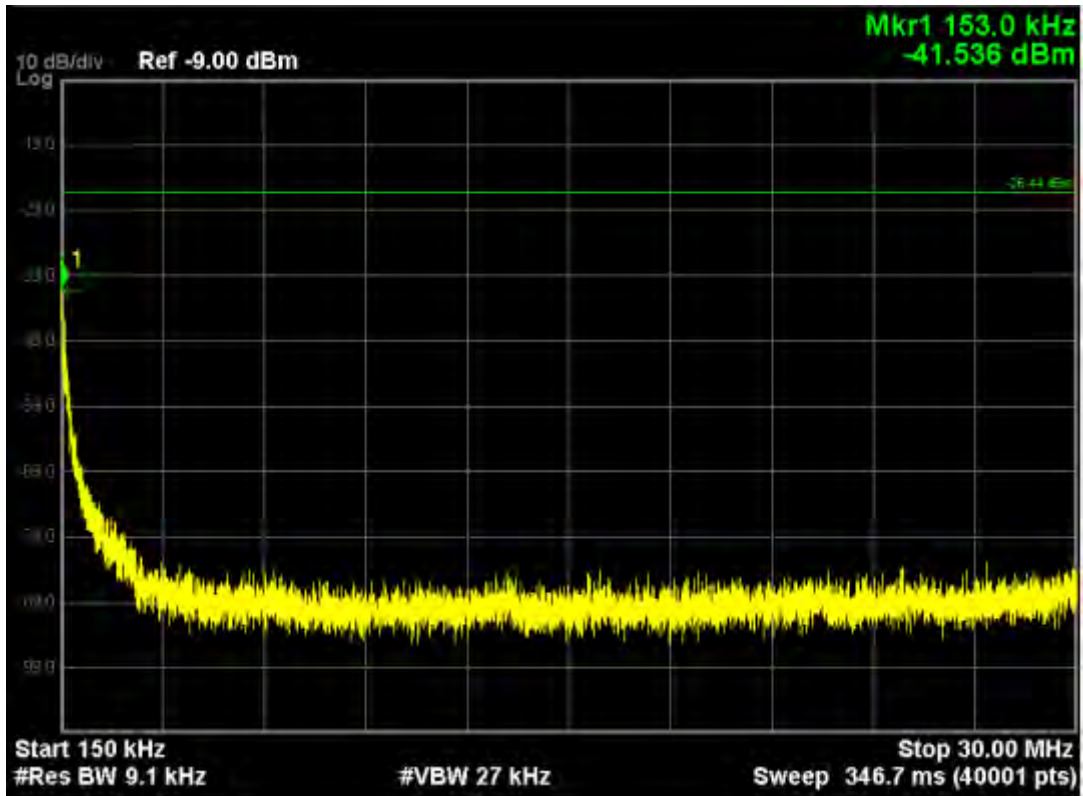


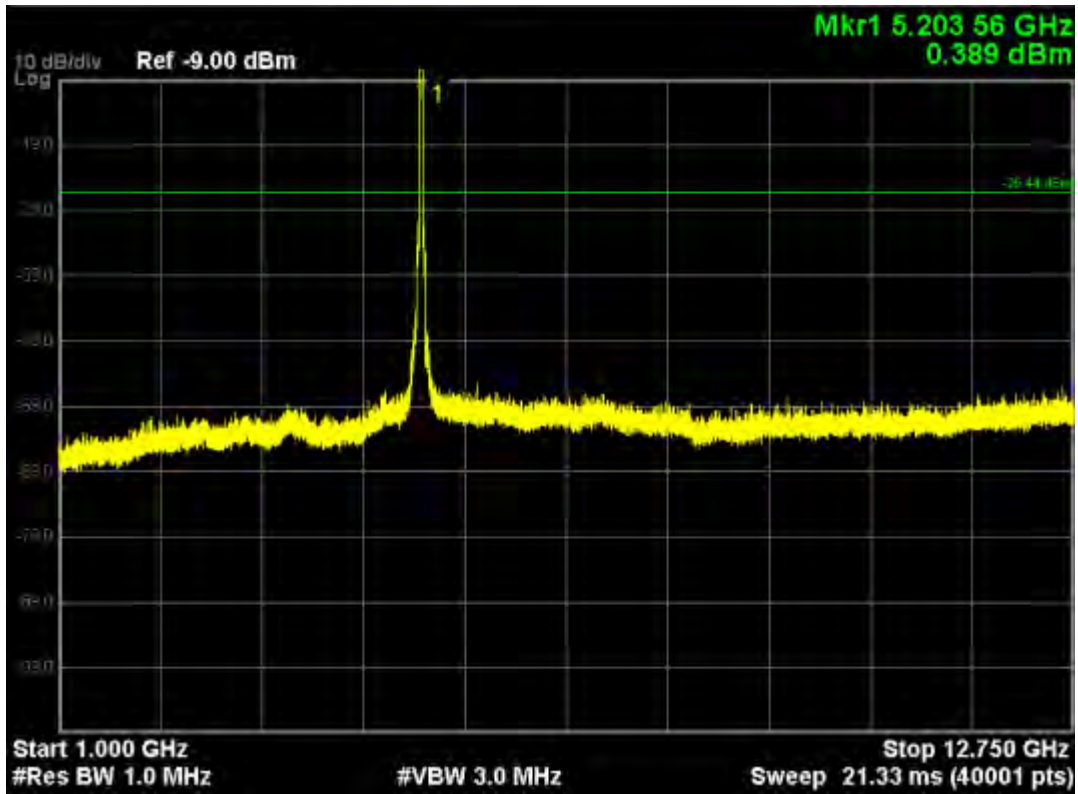
Note: The Mark1 point is carrier.



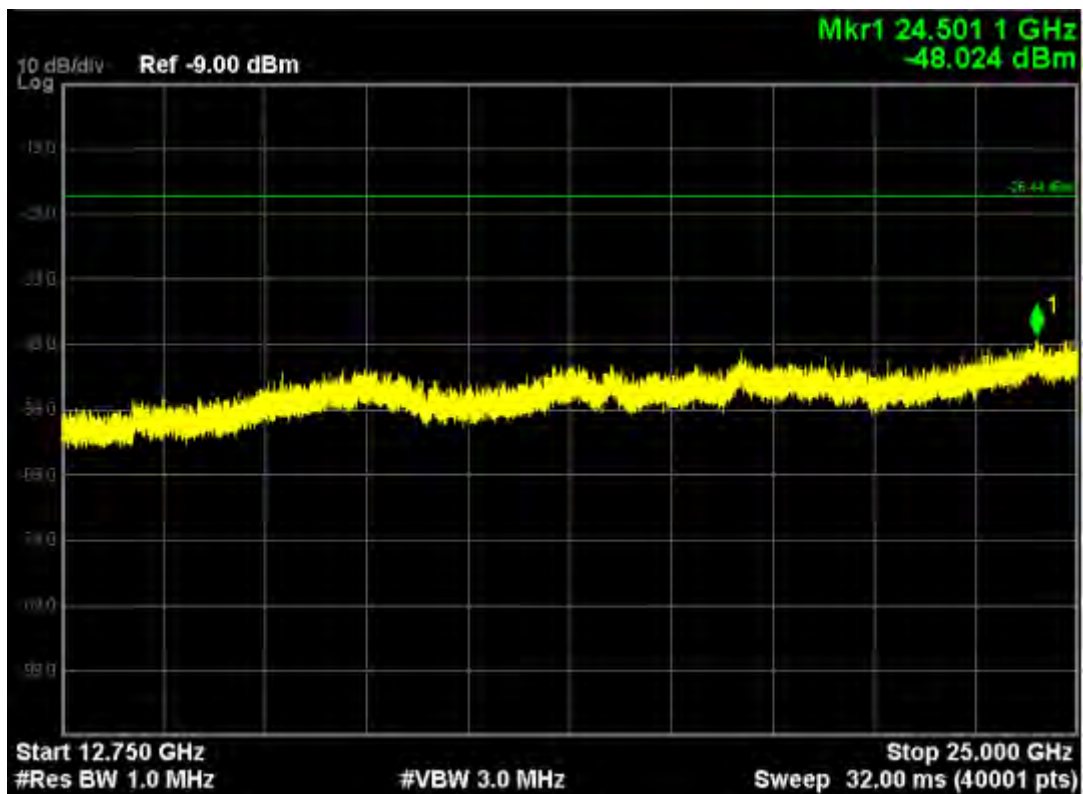
802.11ac40, traffic mode; Channel 38



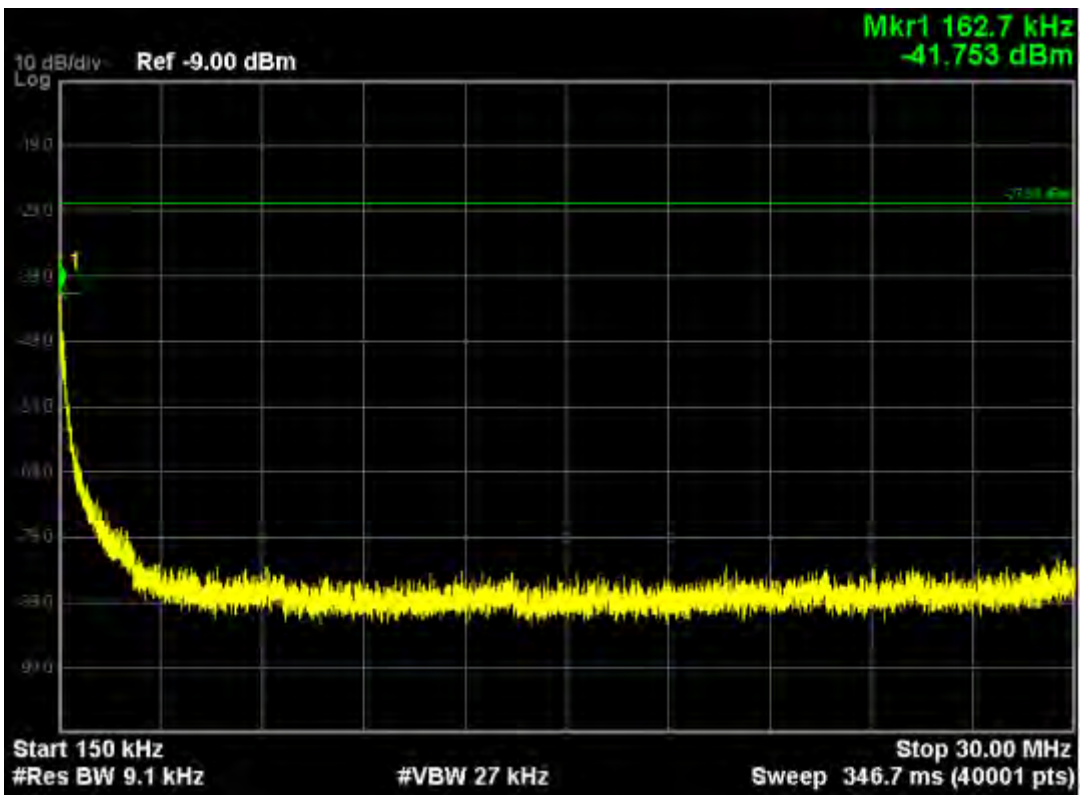
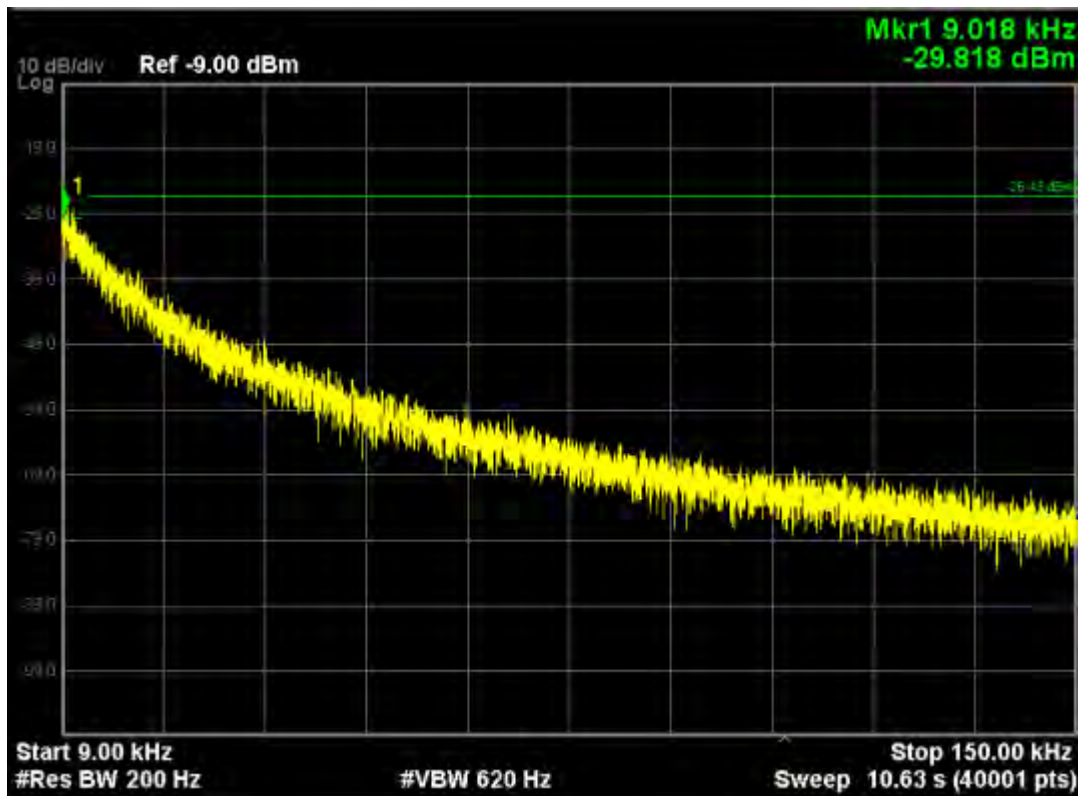


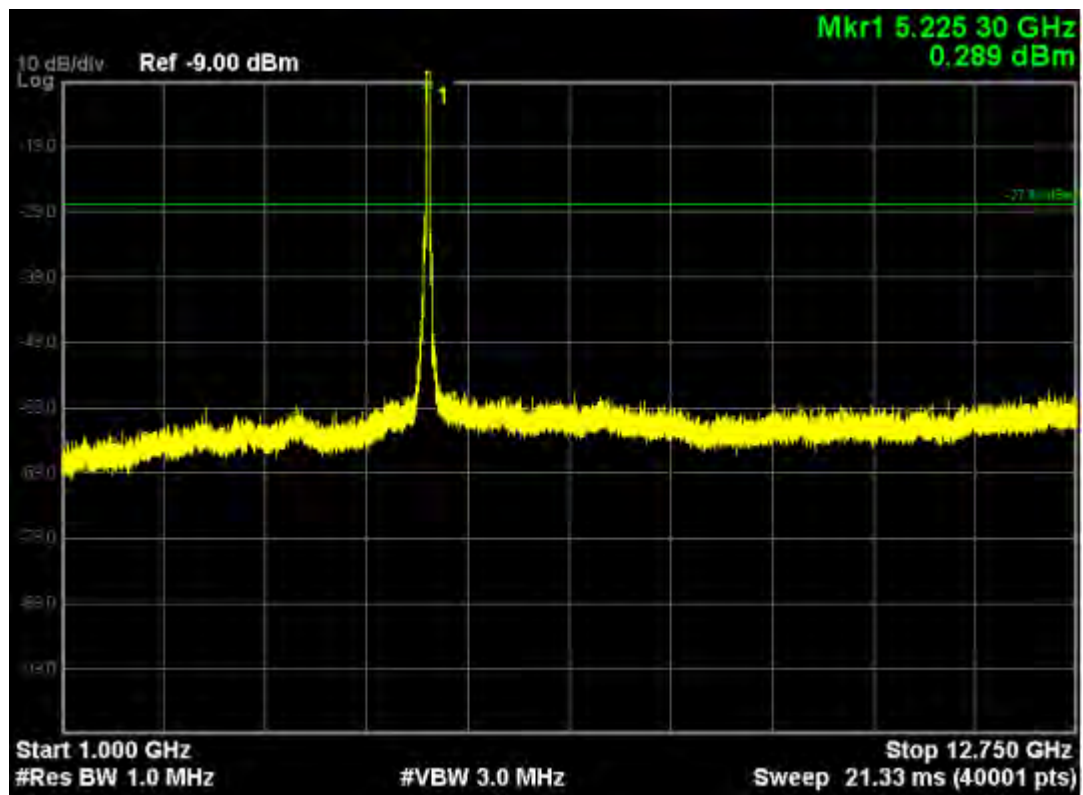
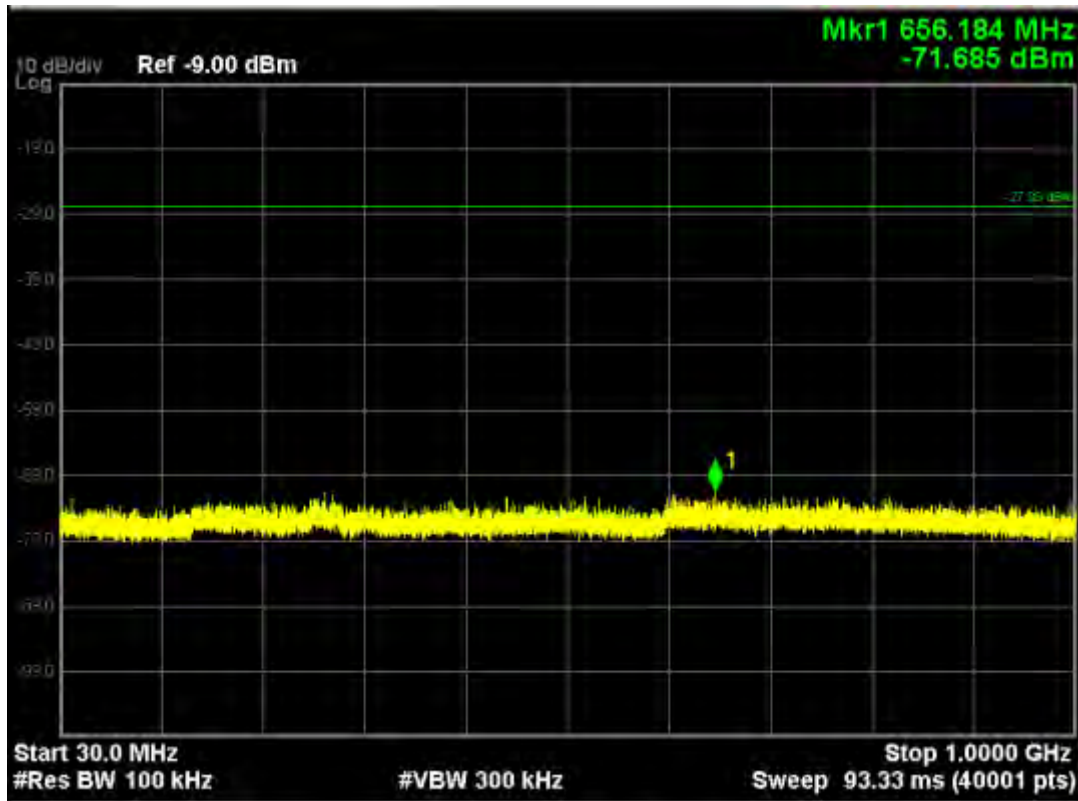


Note: The Mark1 point is carrier.

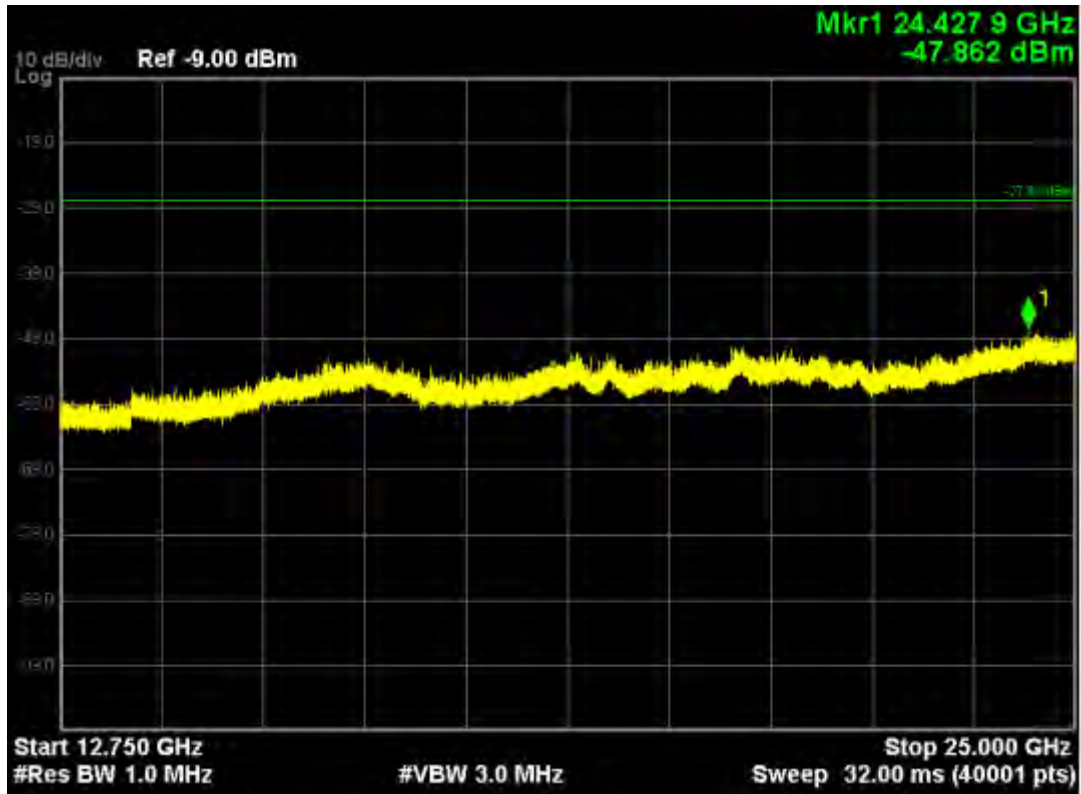


802.11ac40, traffic mode; Channel 46

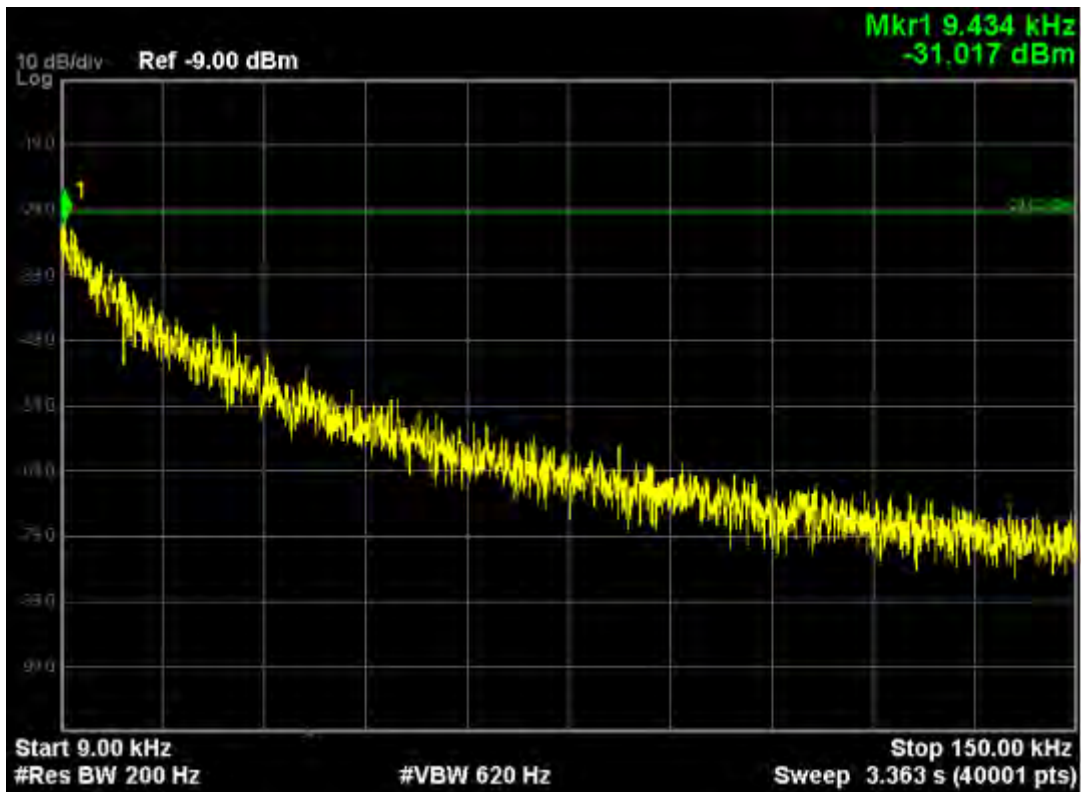


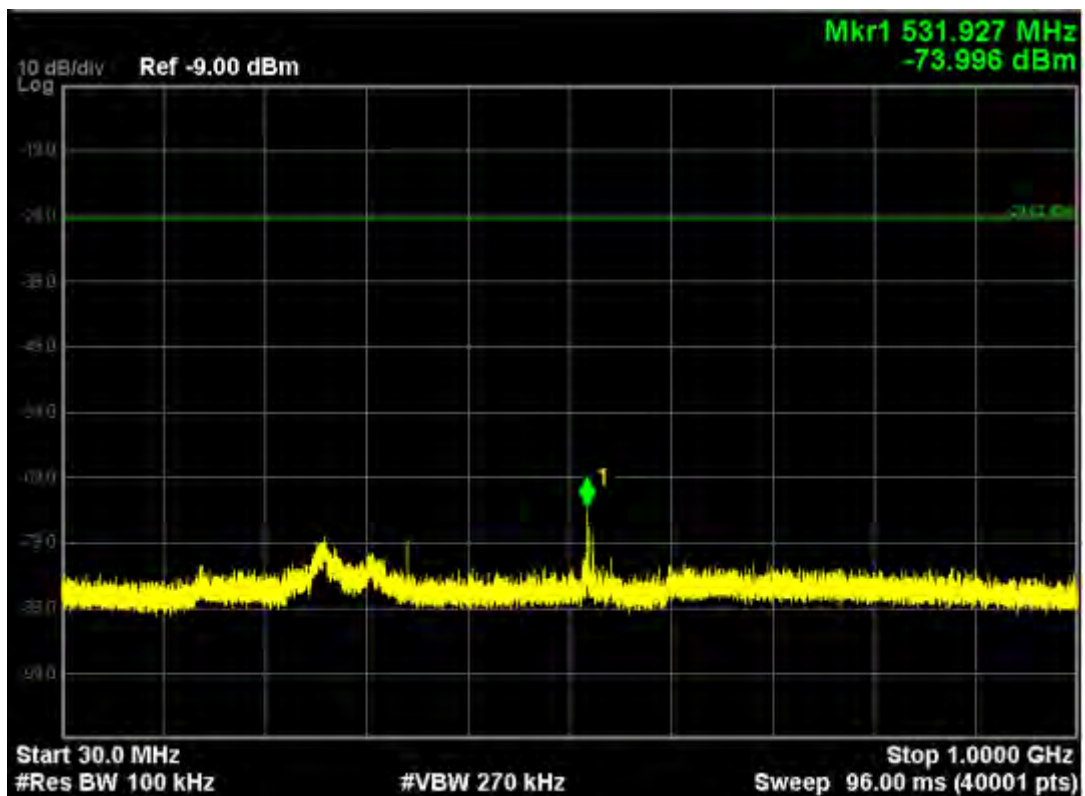
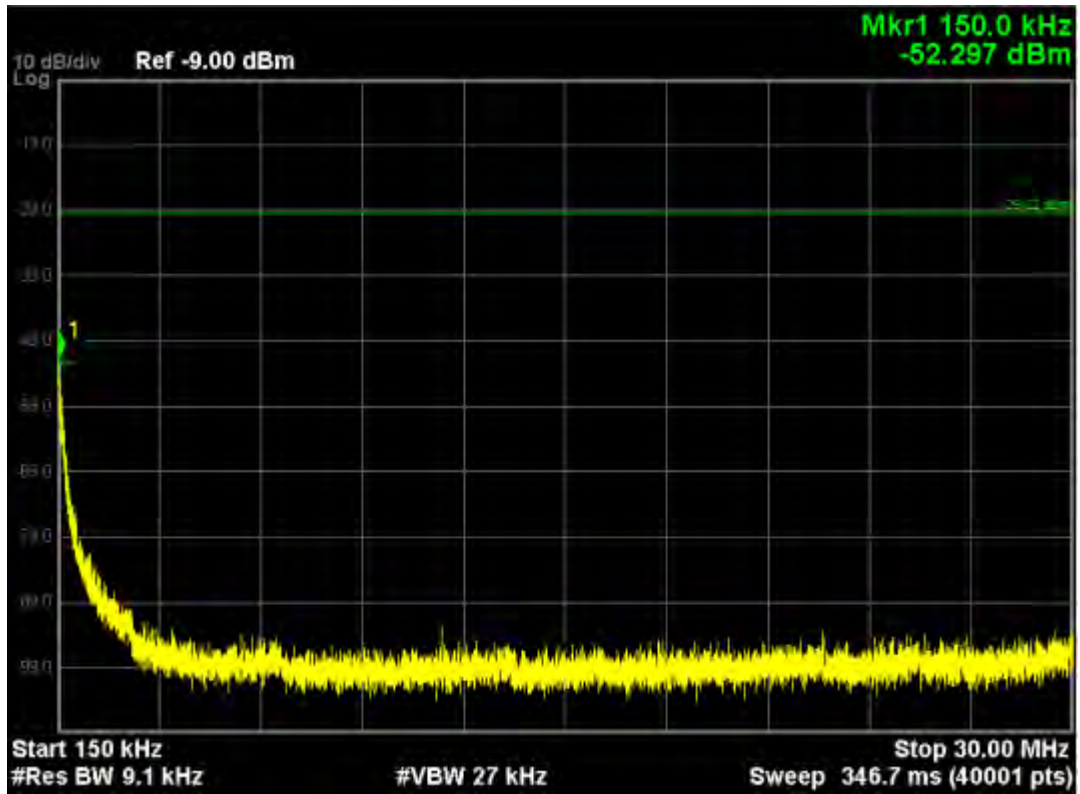


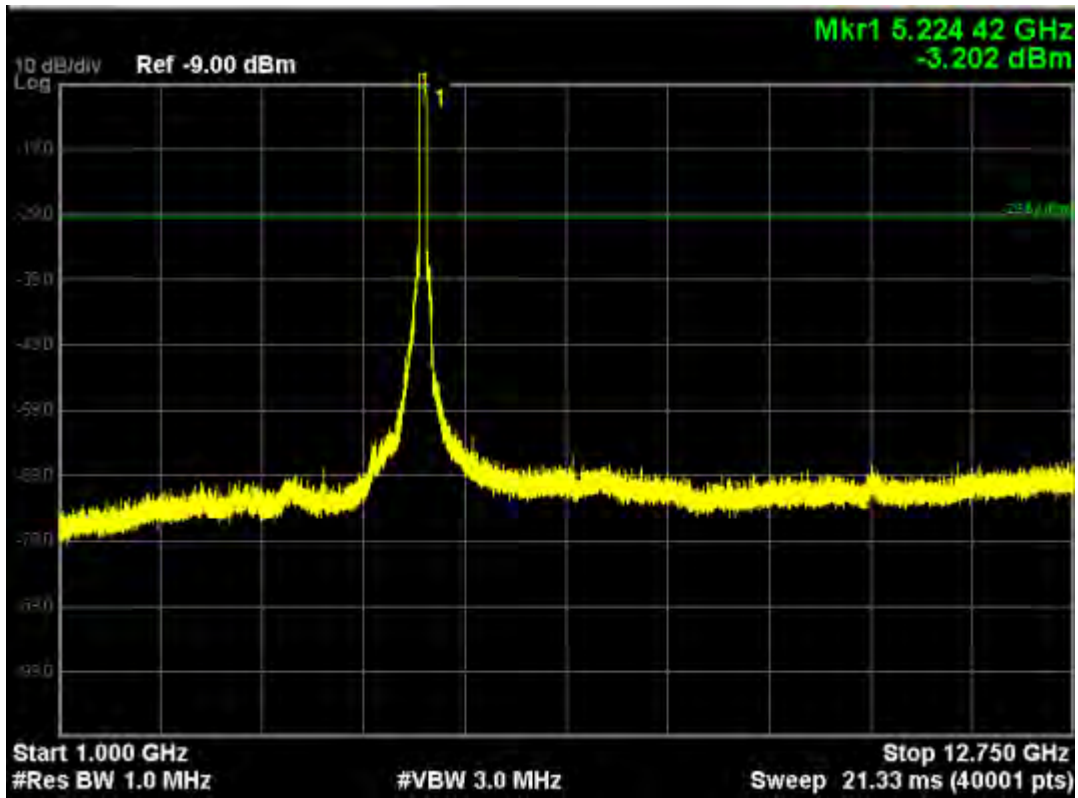
Note: The Mark1 point is carrier.



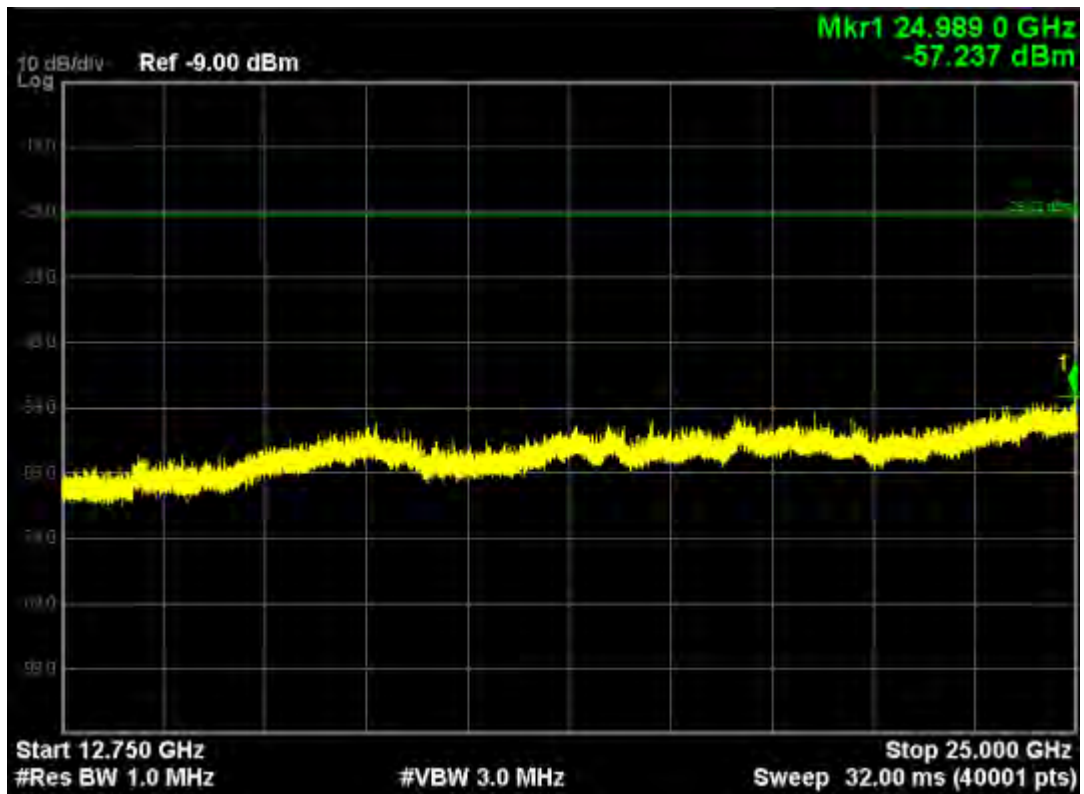
802.11ac80, traffic mode; Channel 42



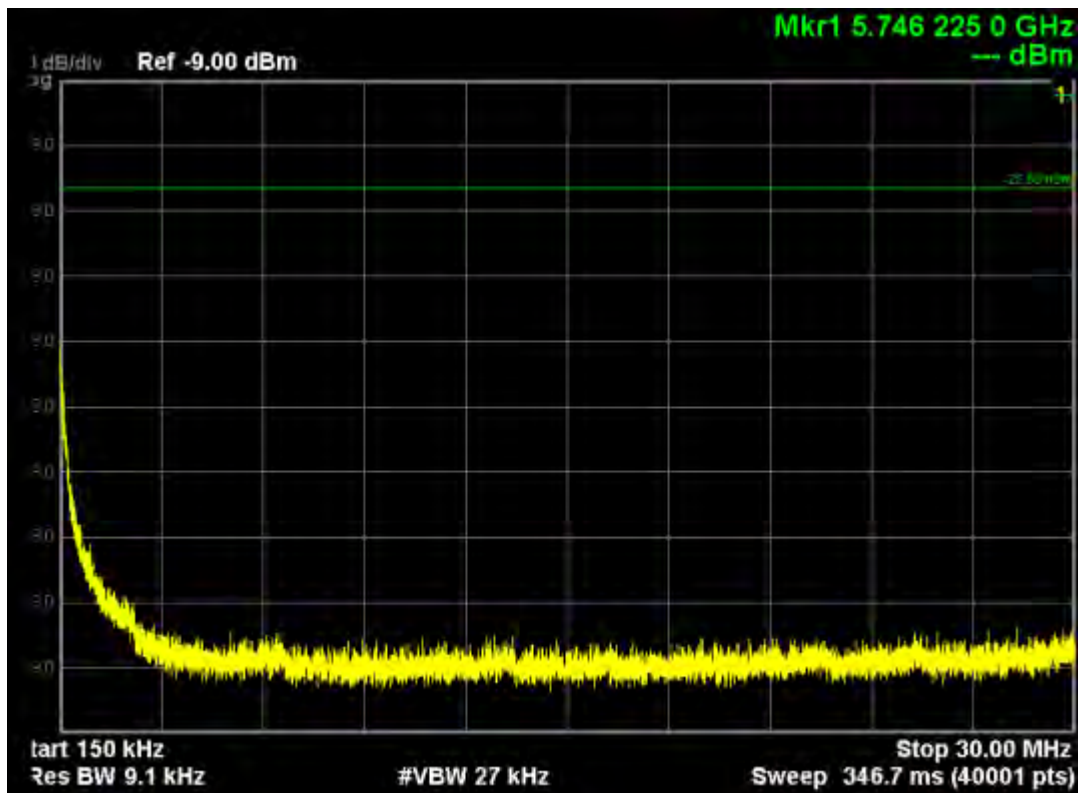
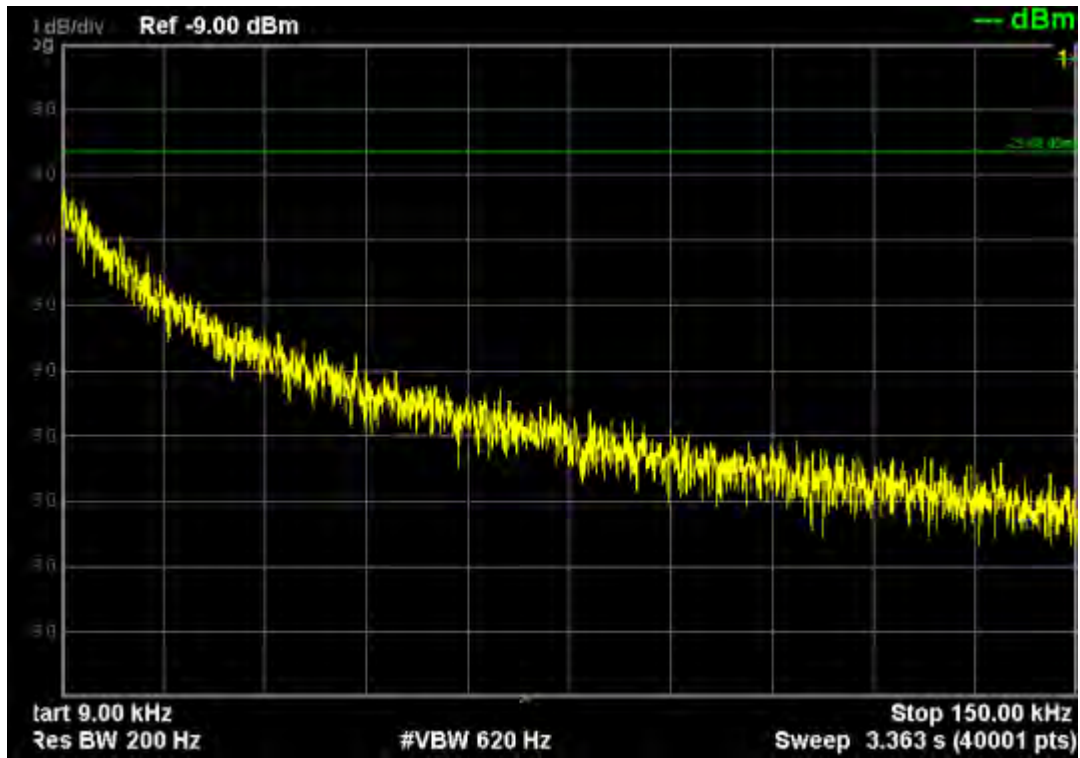


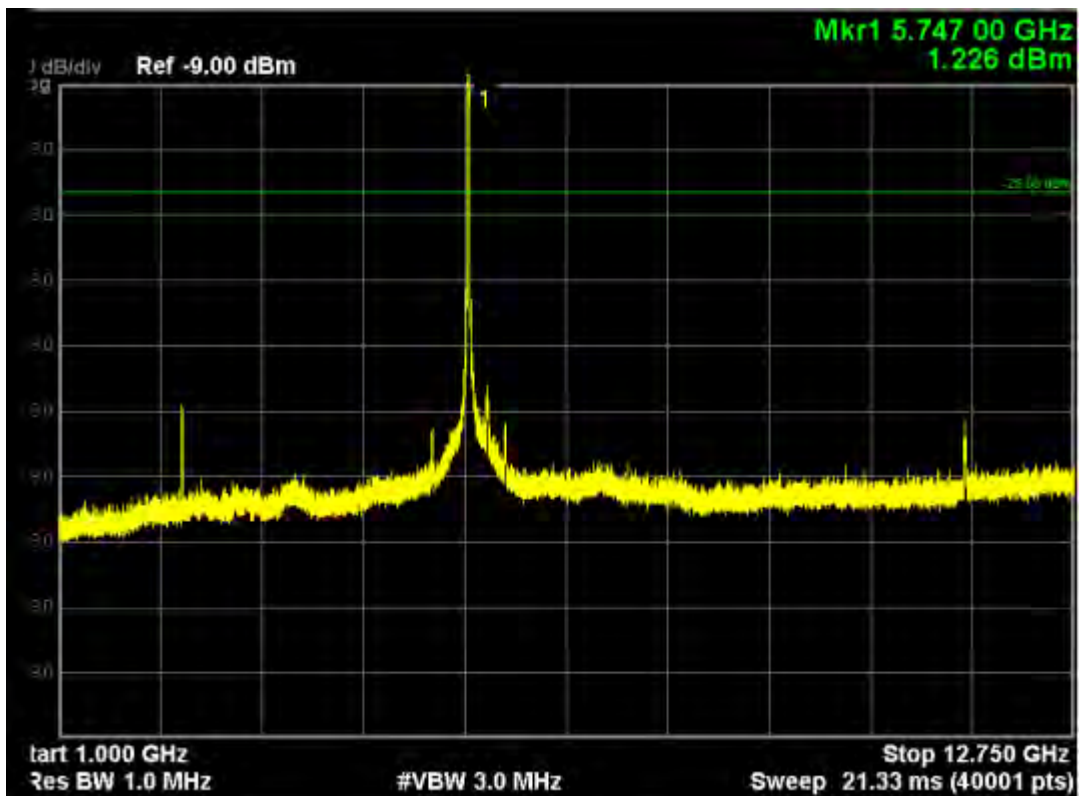
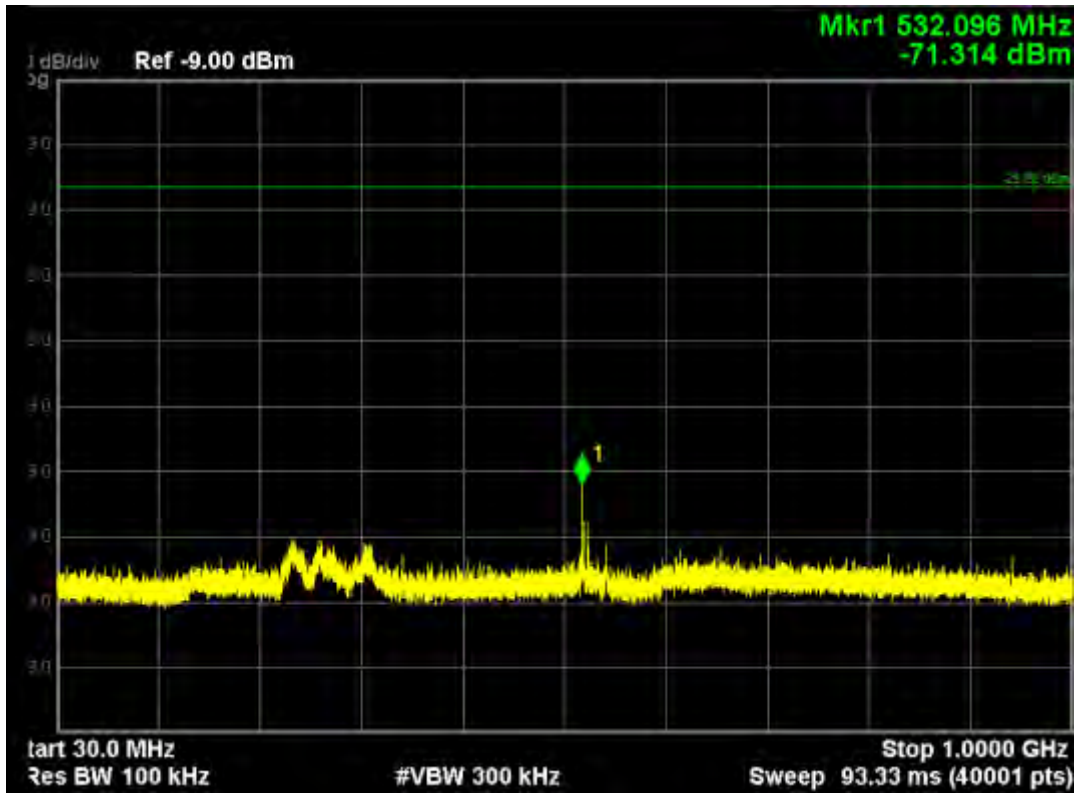


Note: The Mark1 point is carrier.

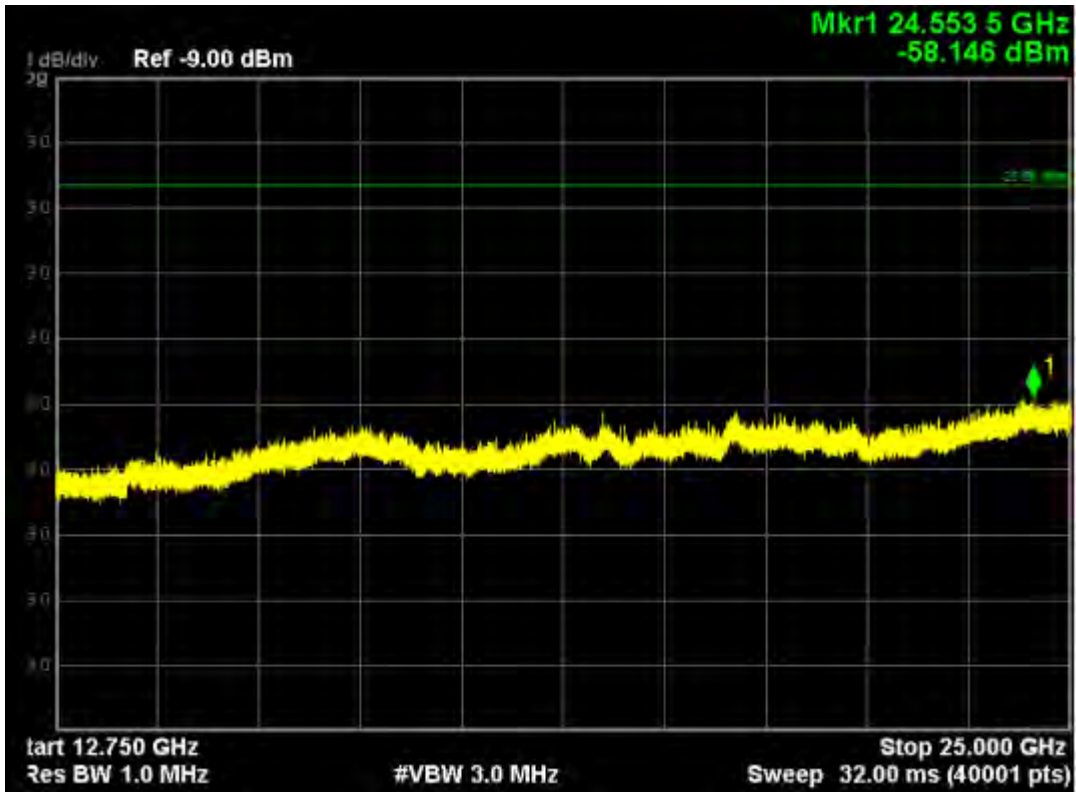


802.11ac (5725MHz-5850MHz)
802.11ac20, traffic mode; Channel 149

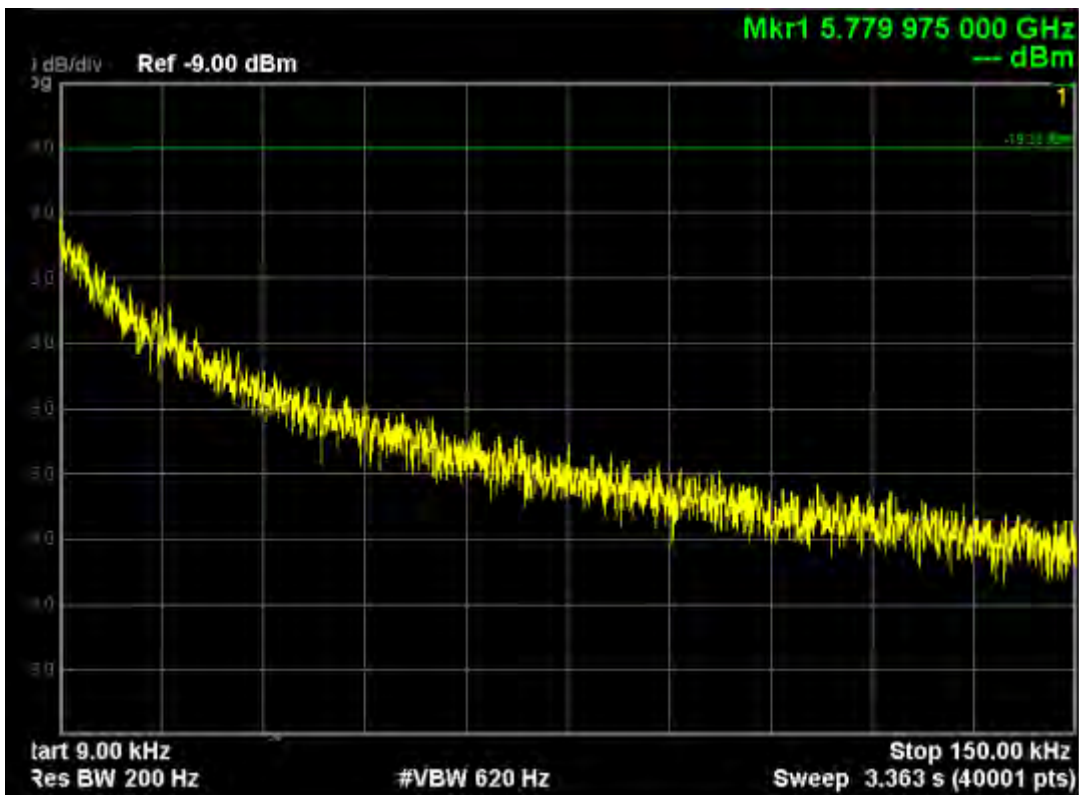


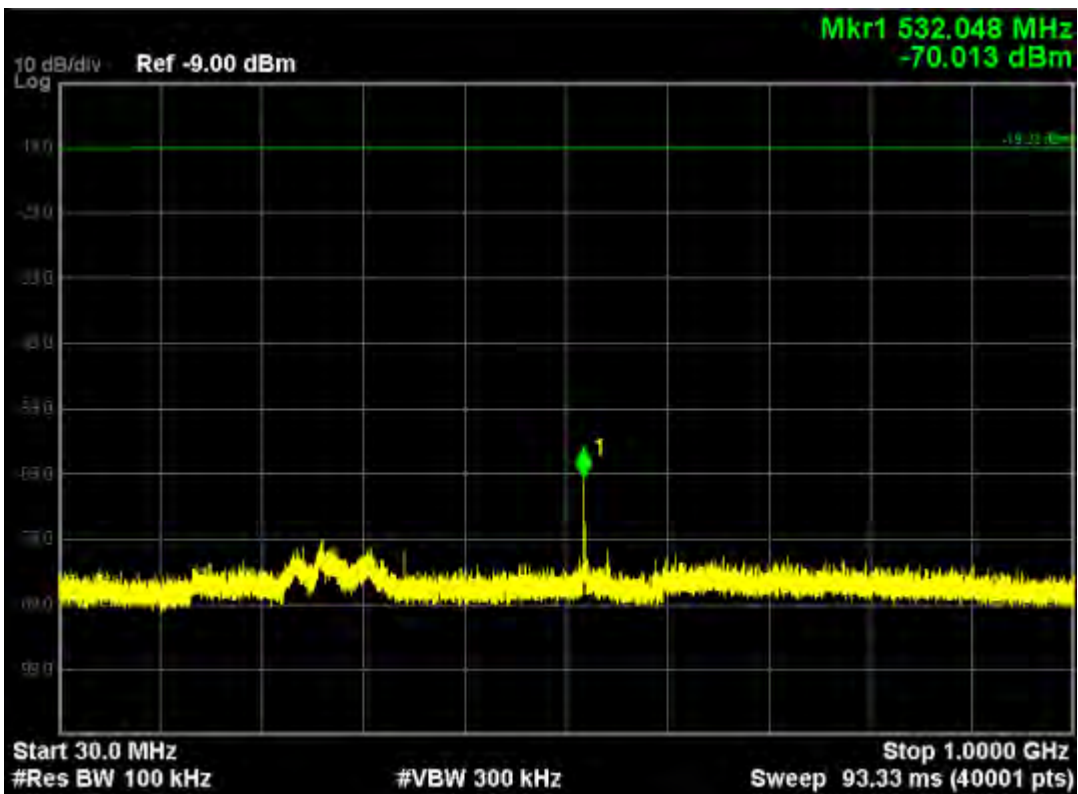
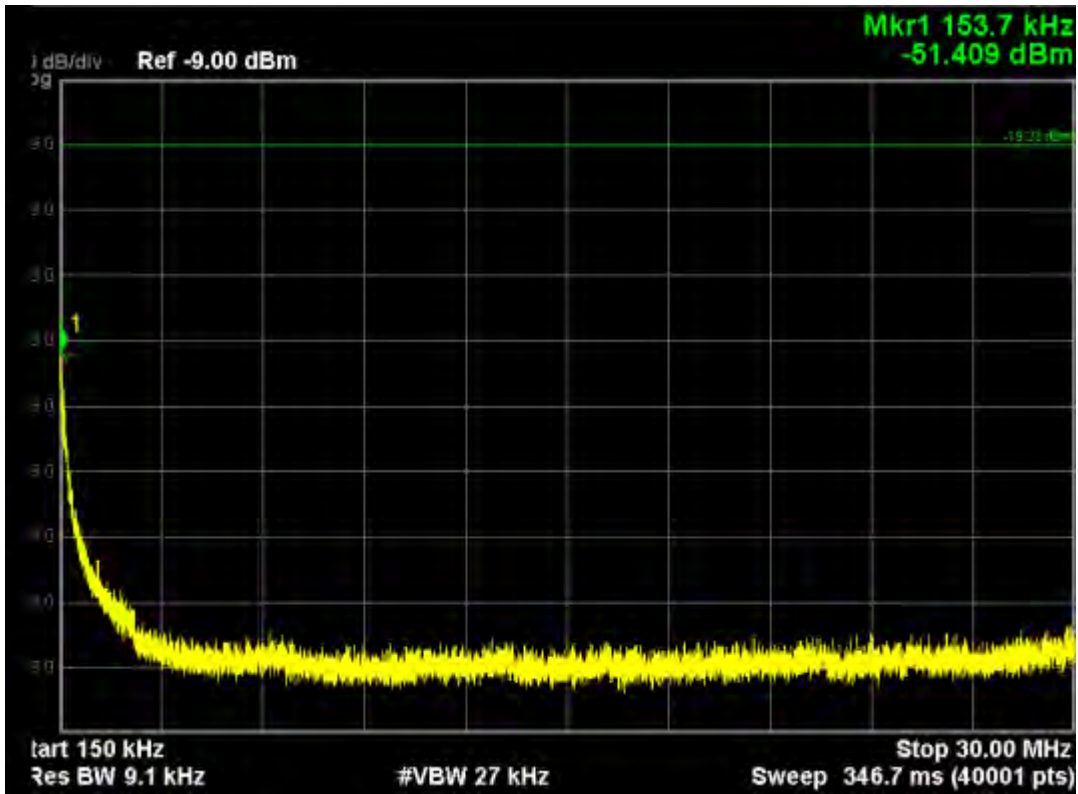


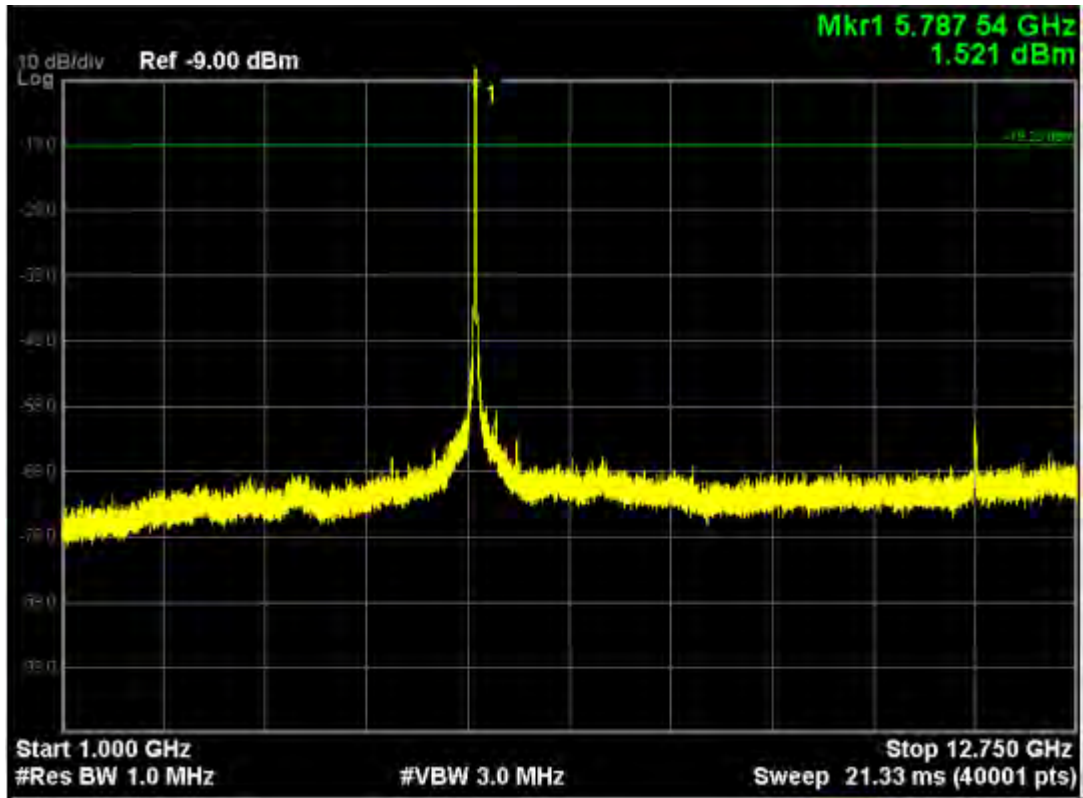
Note: The Mark1 point is carrier.



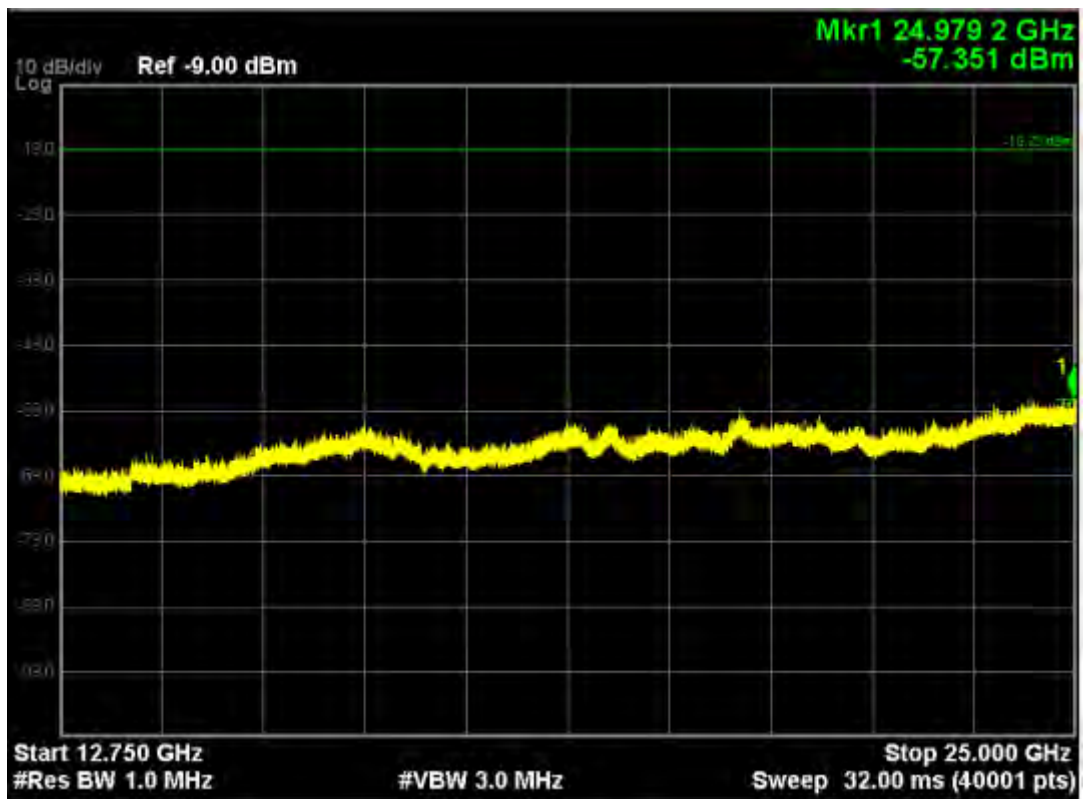
802.11ac20, traffic mode; Channel 157



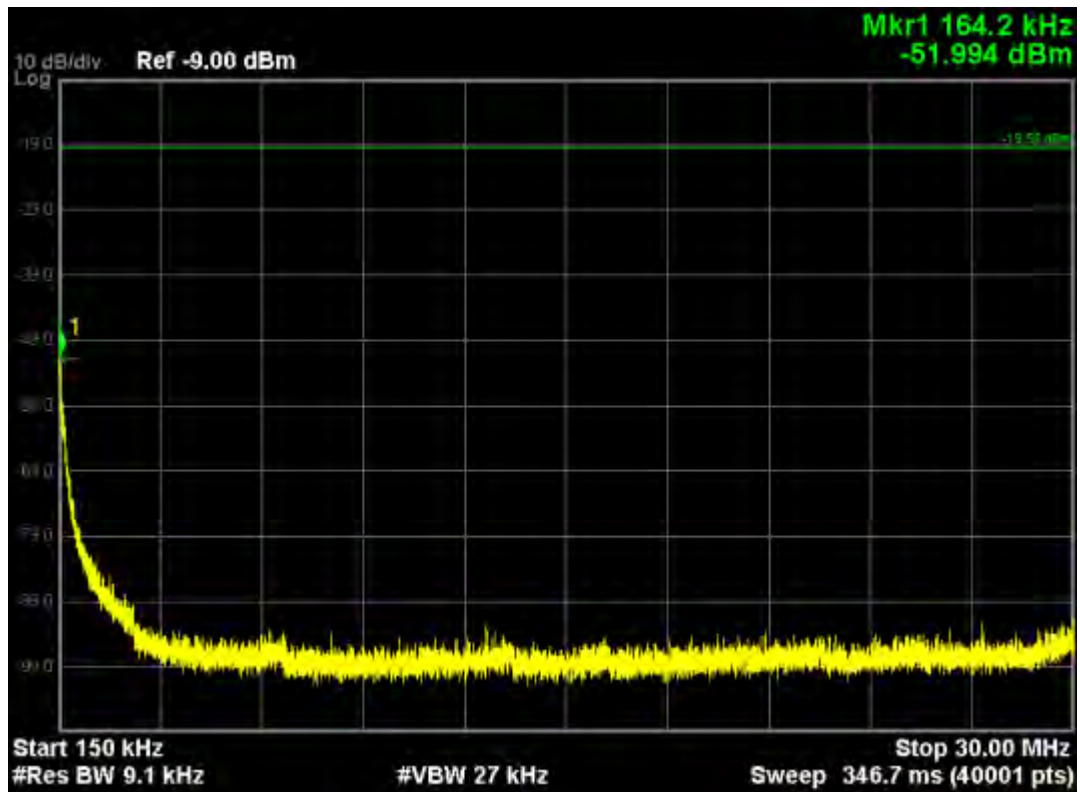
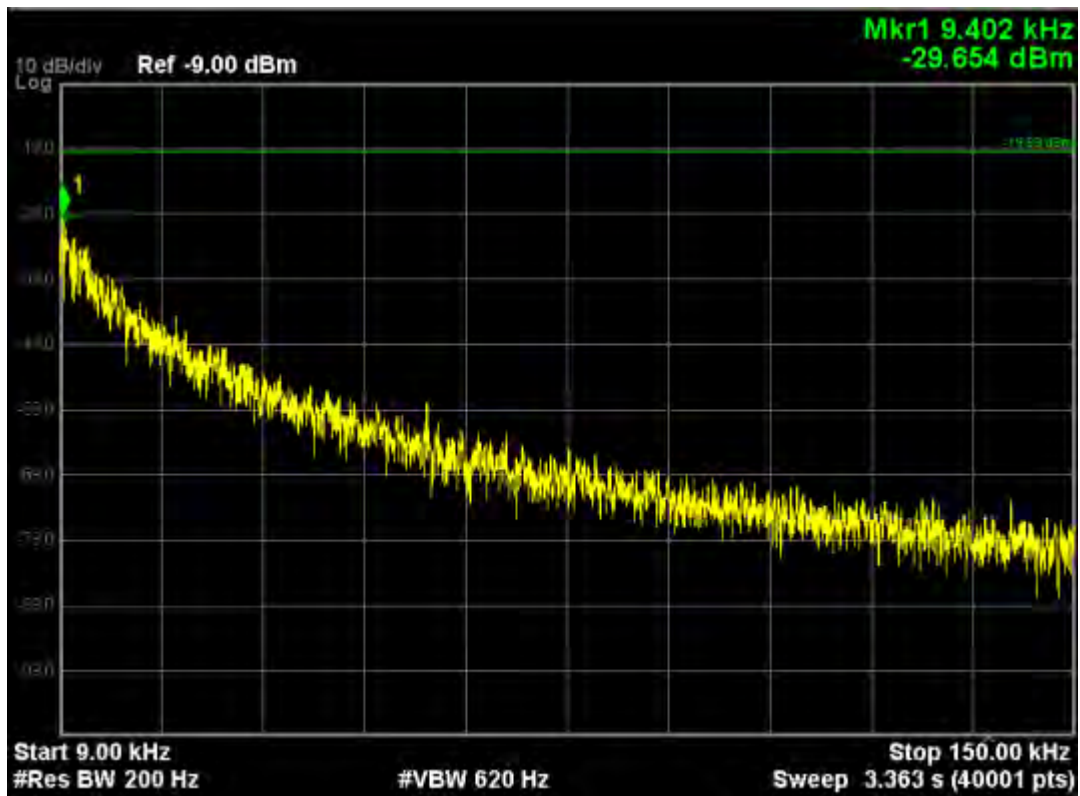


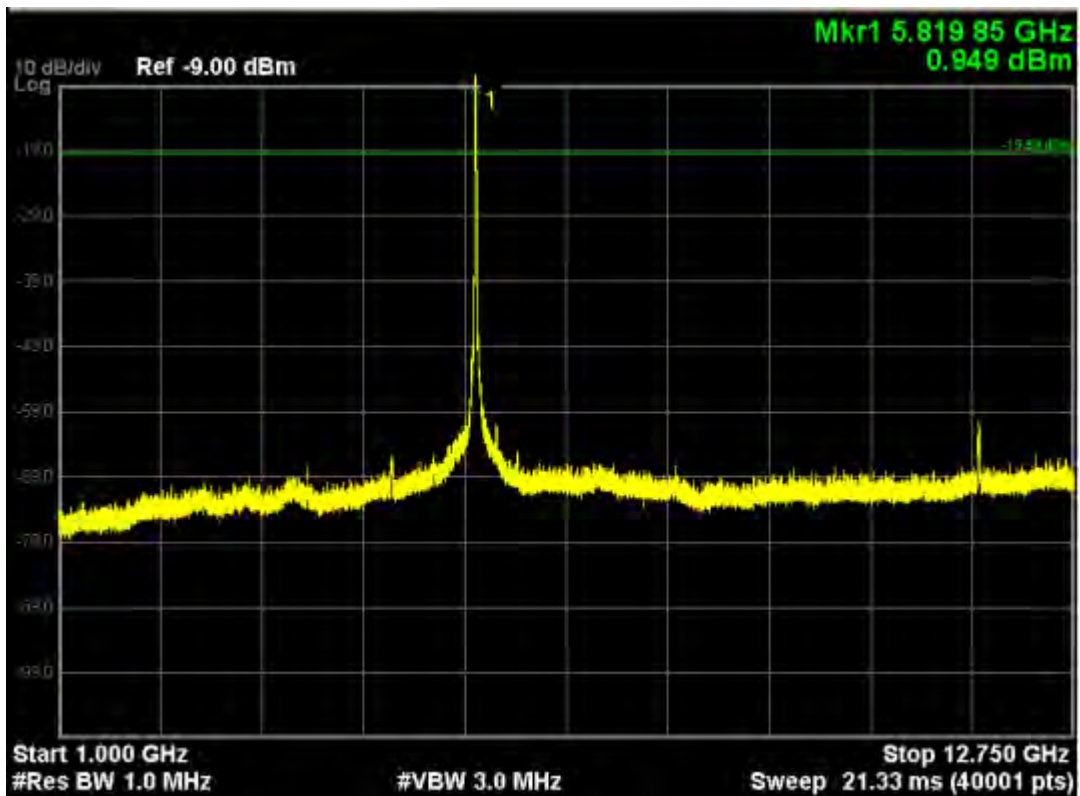
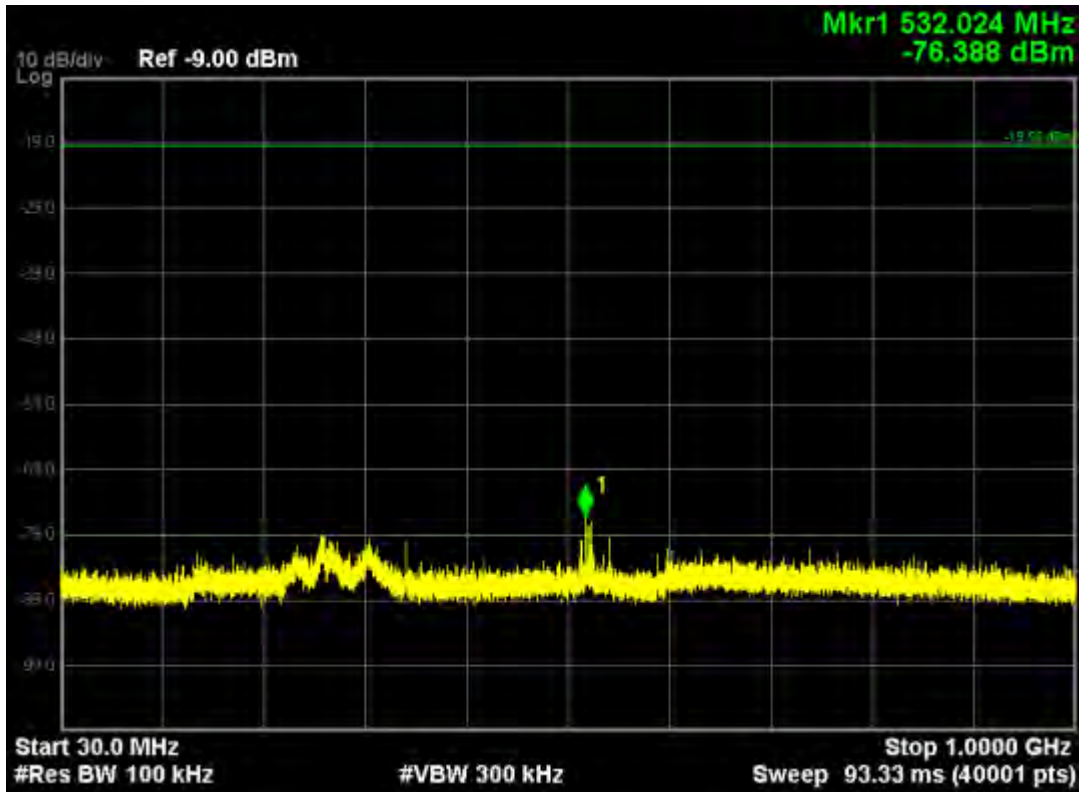


Note: The Mark1 point is carrier.

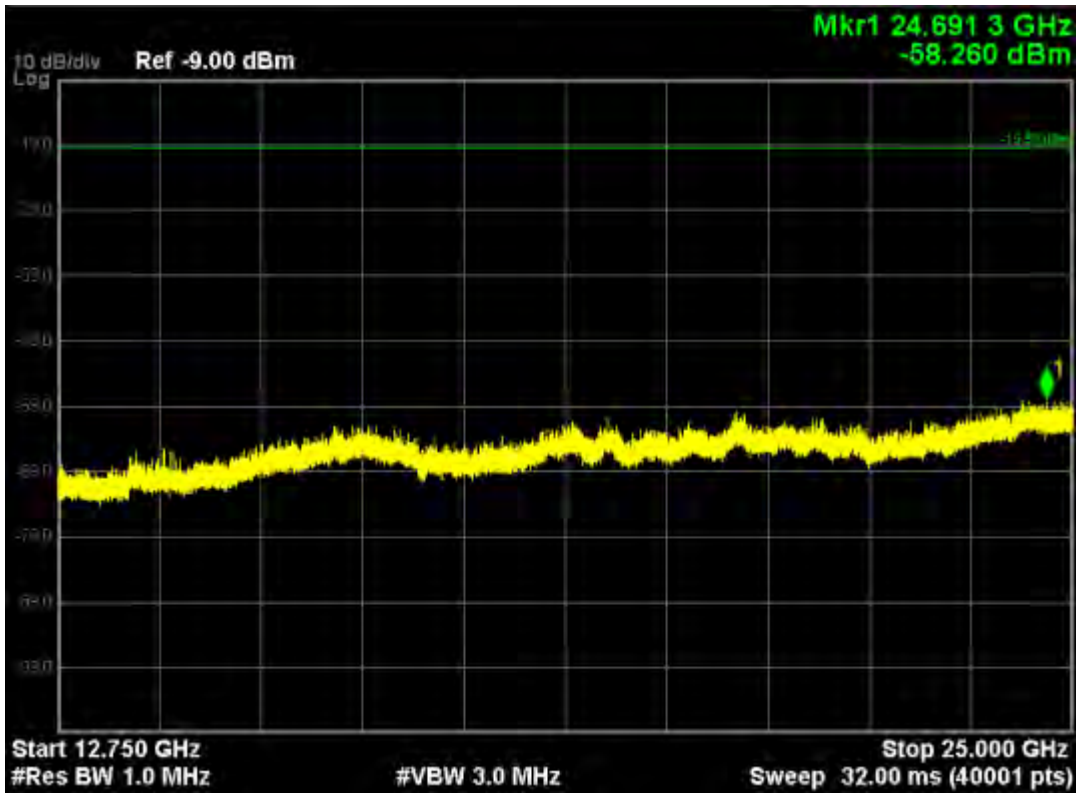


802.11ac20, traffic mode; Channel 165

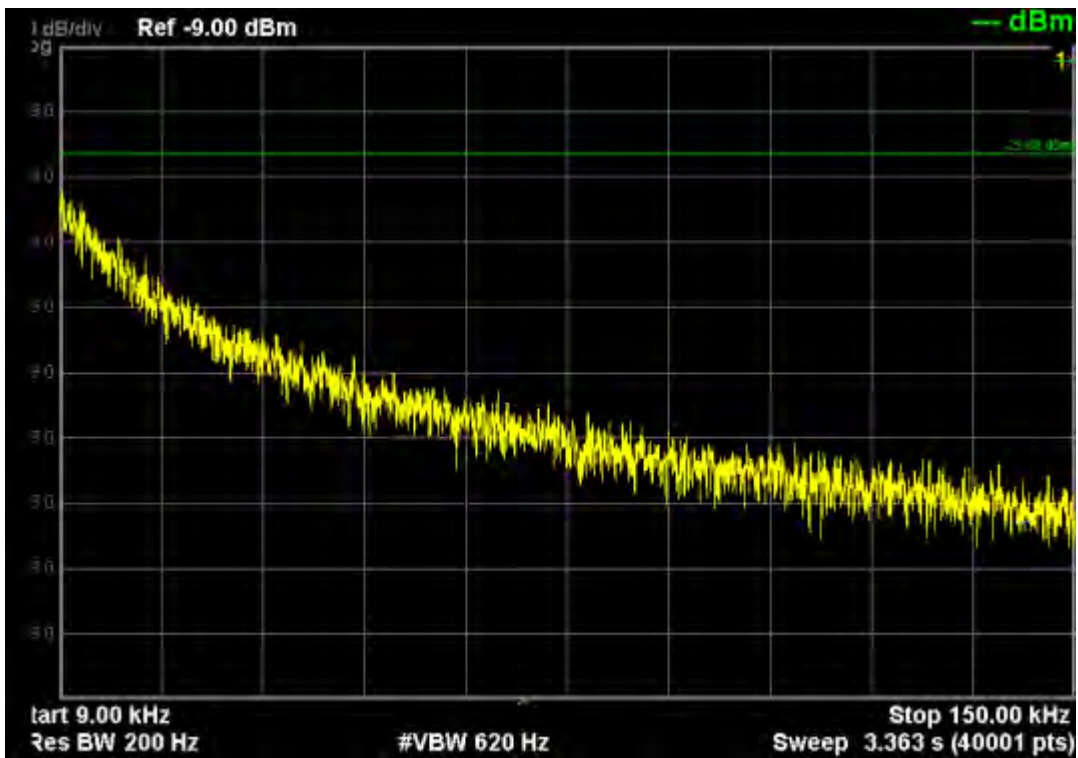


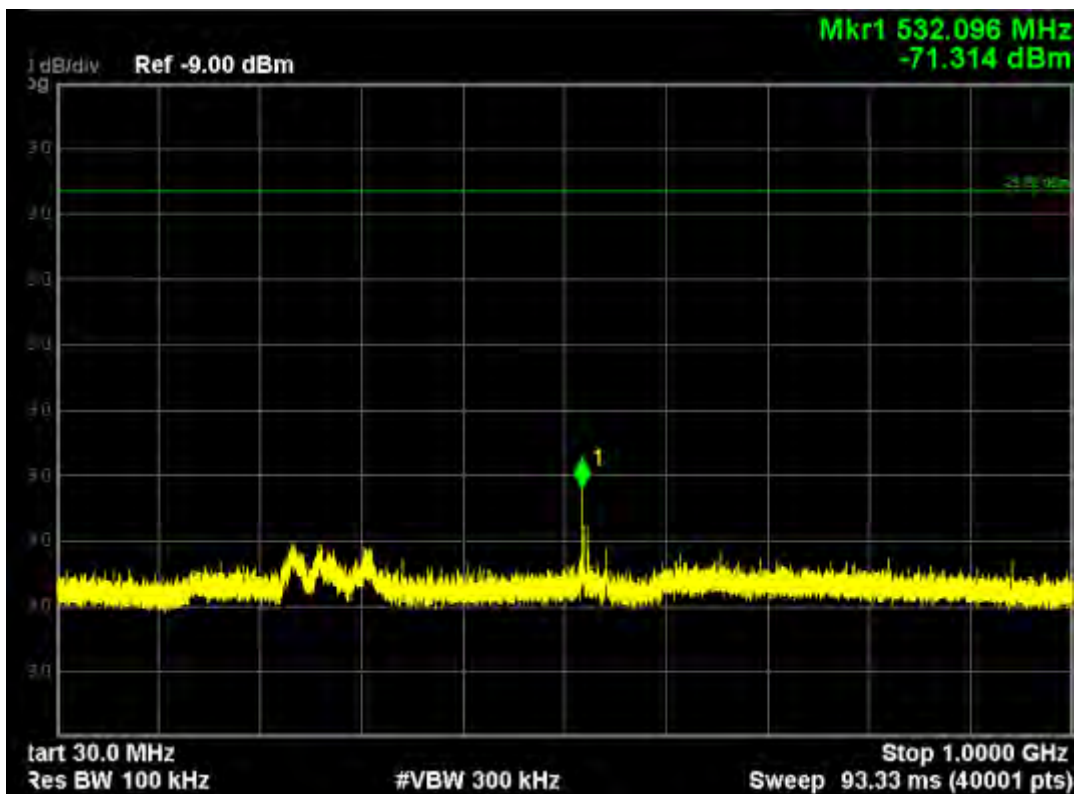
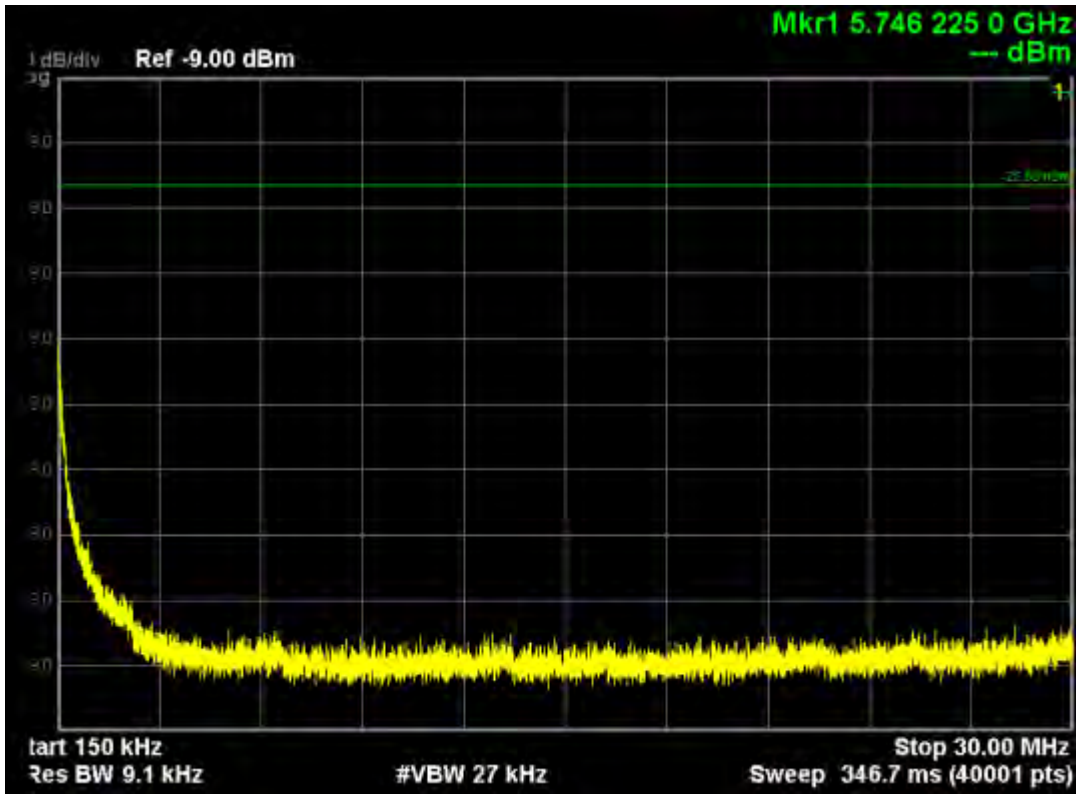


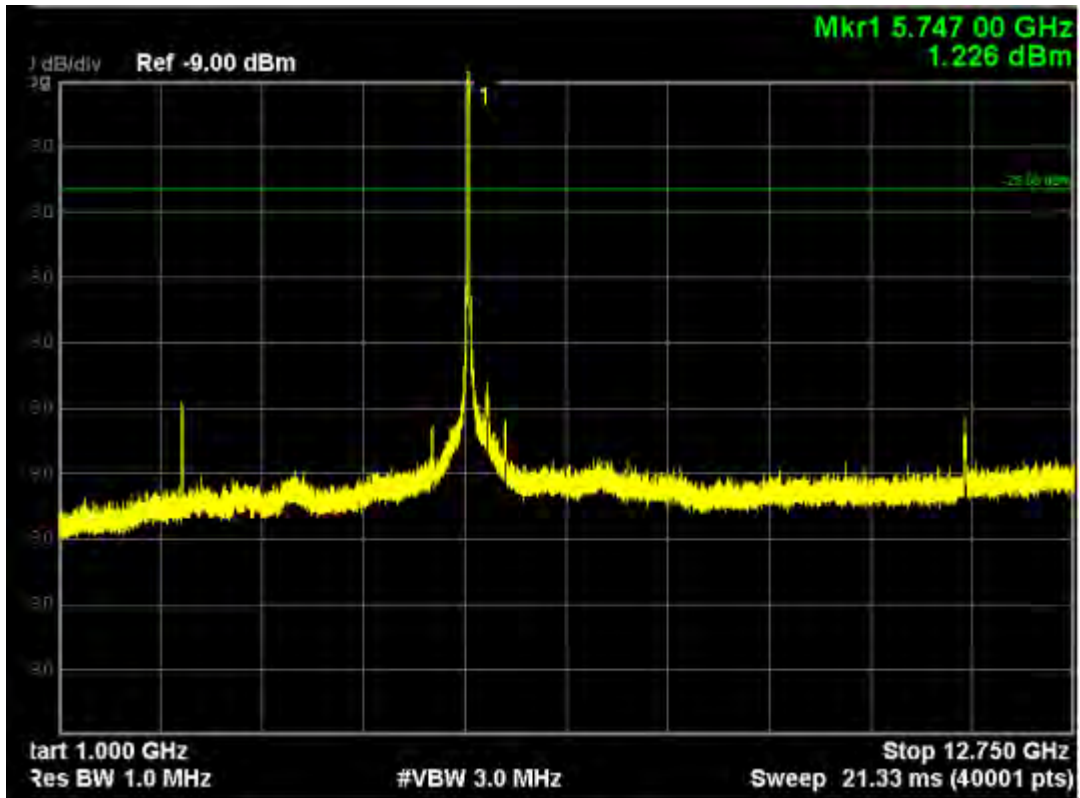
Note: The Mark1 point is carrier.



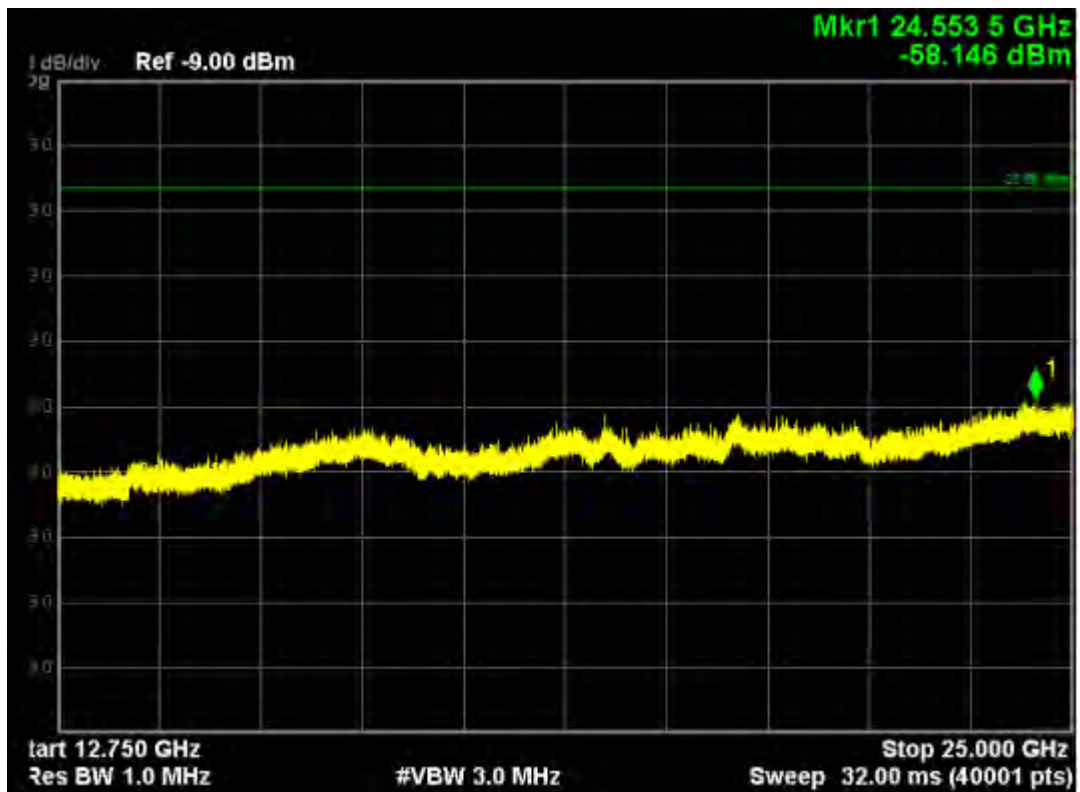
802.11ac40, traffic mode; Channel 151



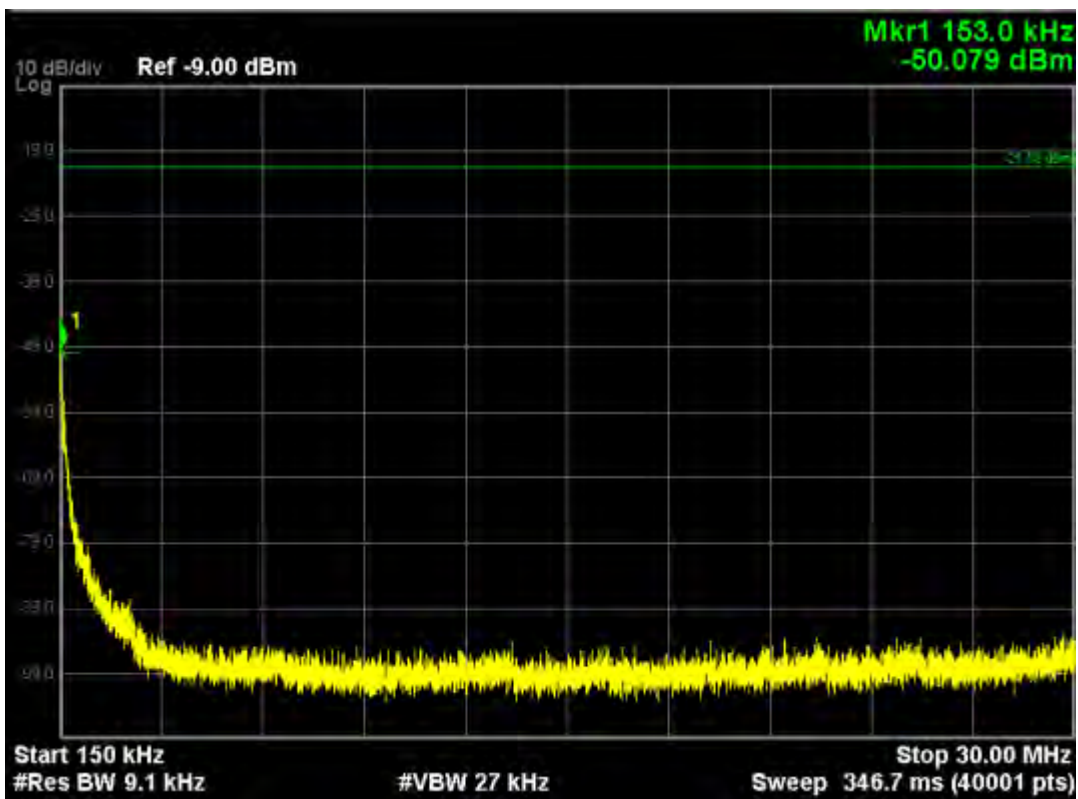
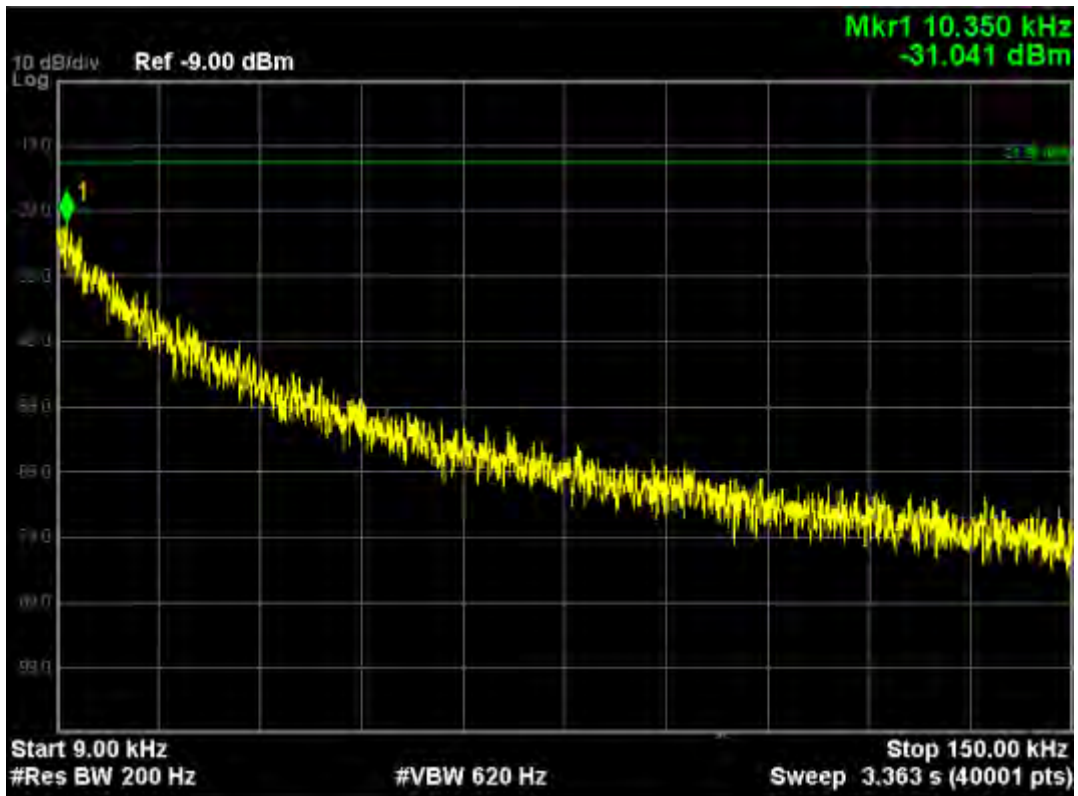


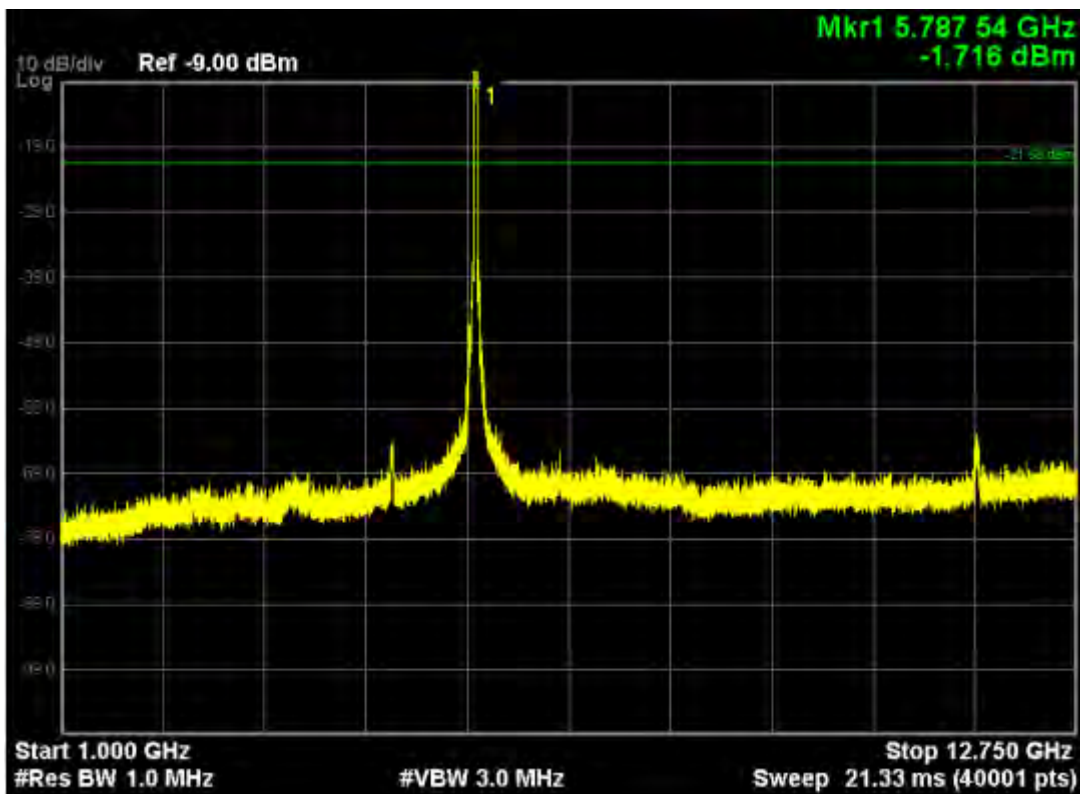
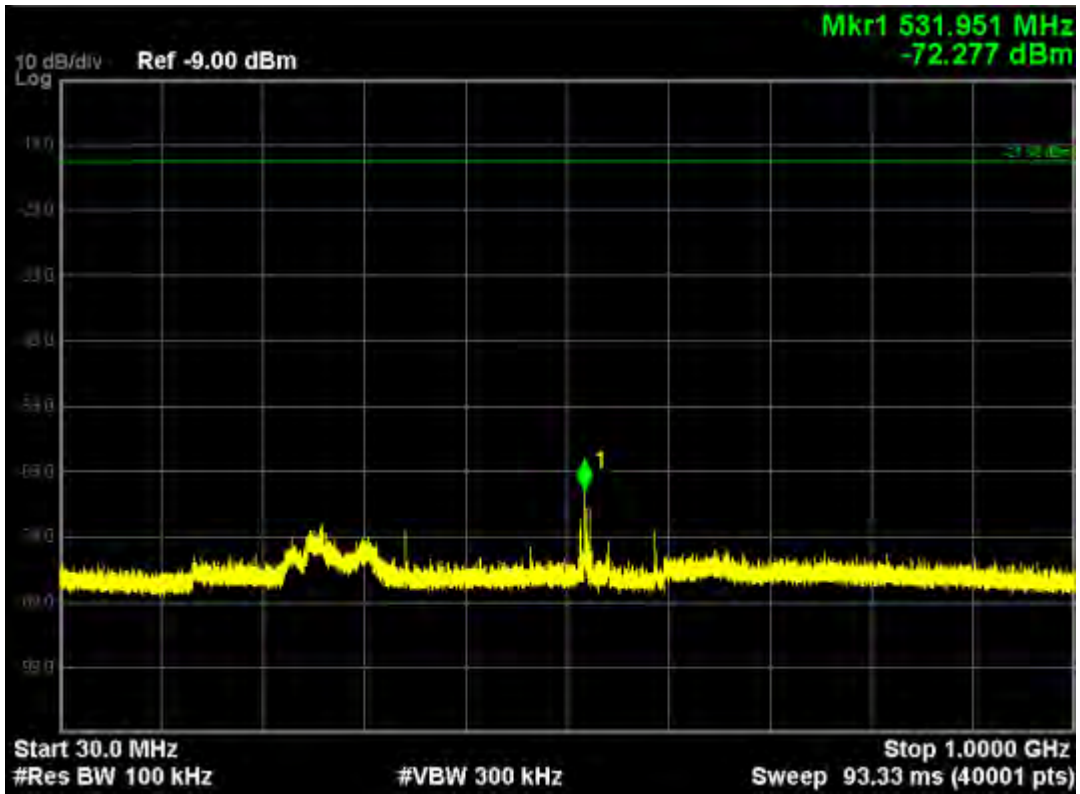


Note: The Mark1 point is carrier.

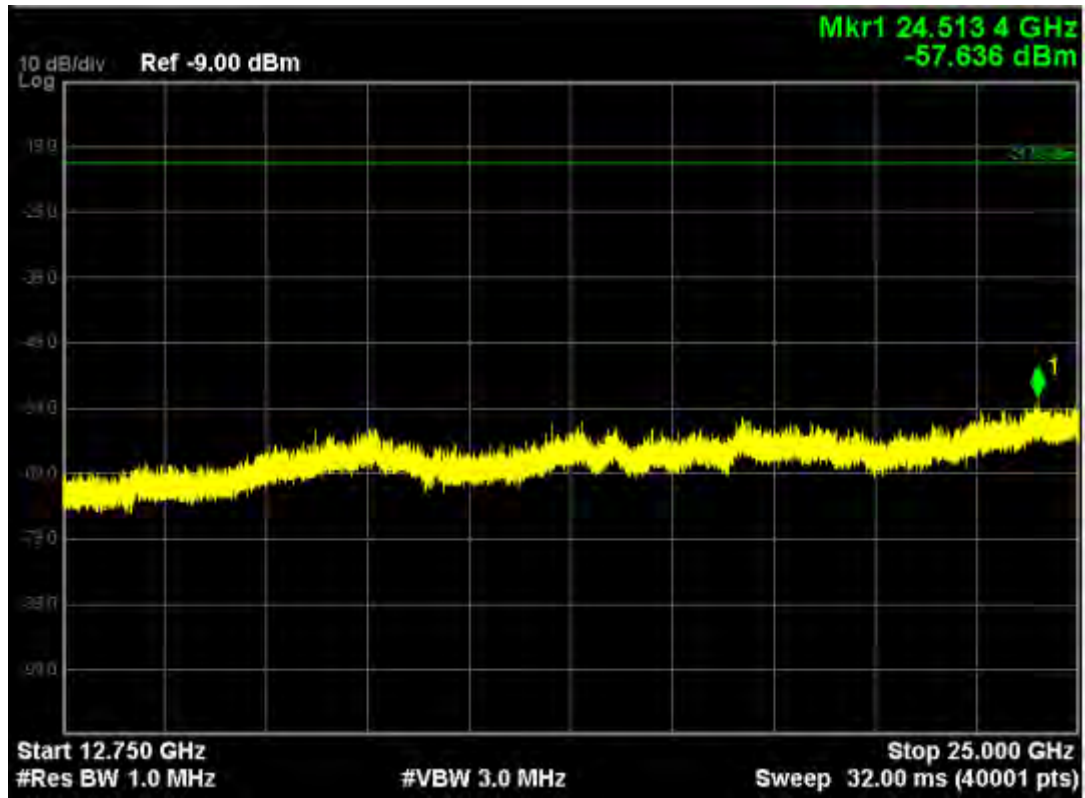


802.11ac40, traffic mode; Channel 159

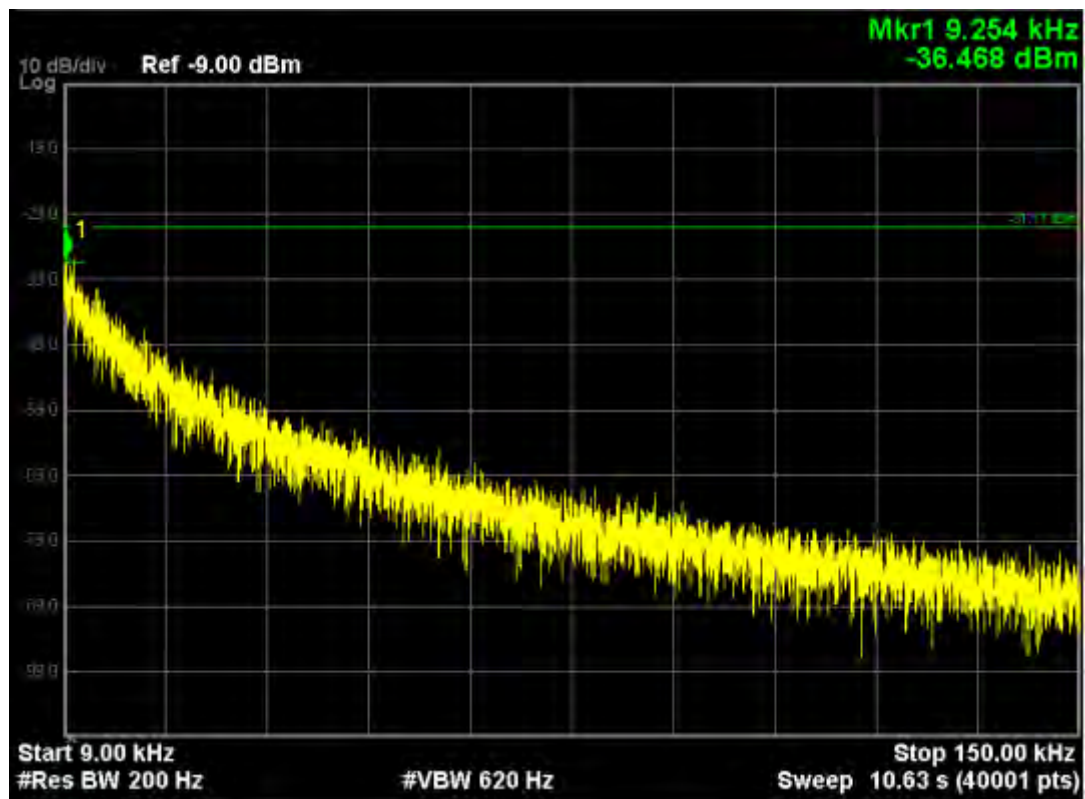


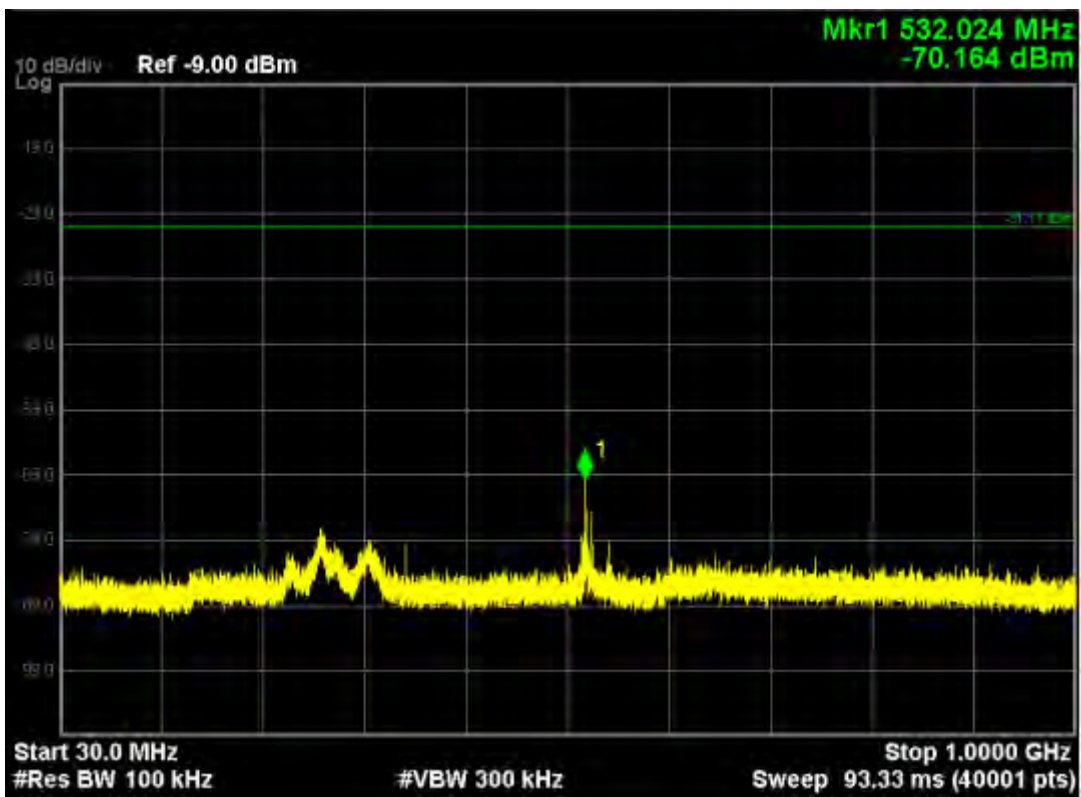
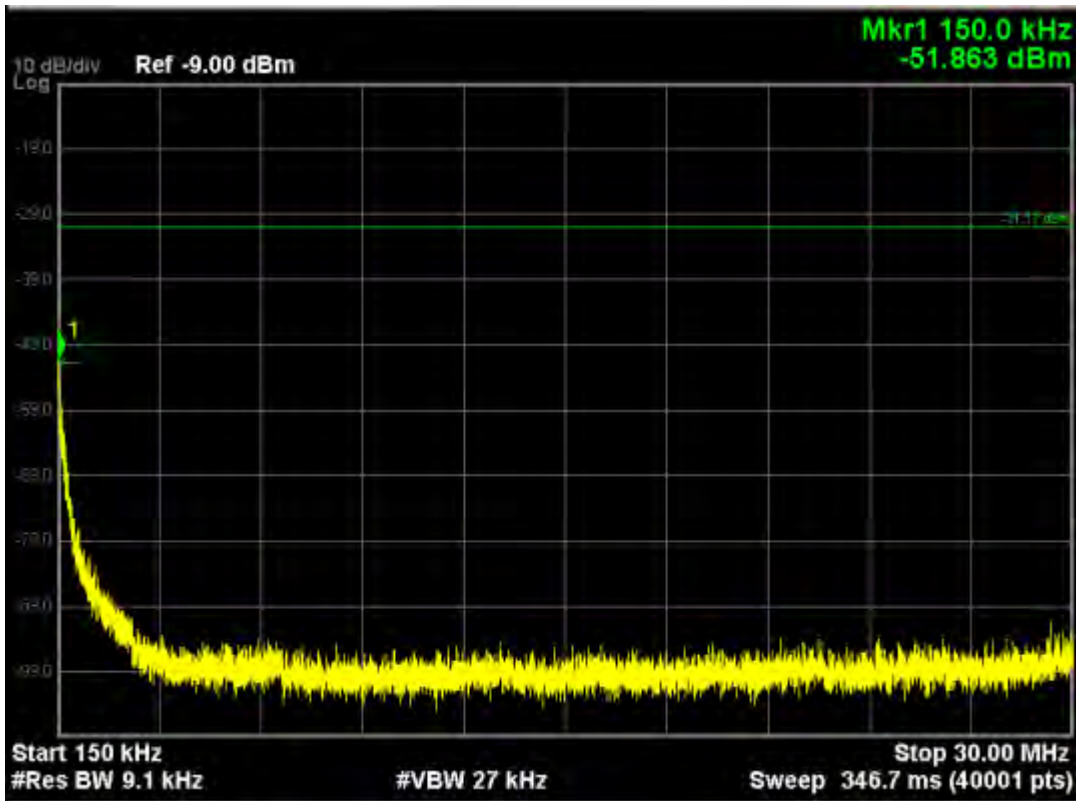


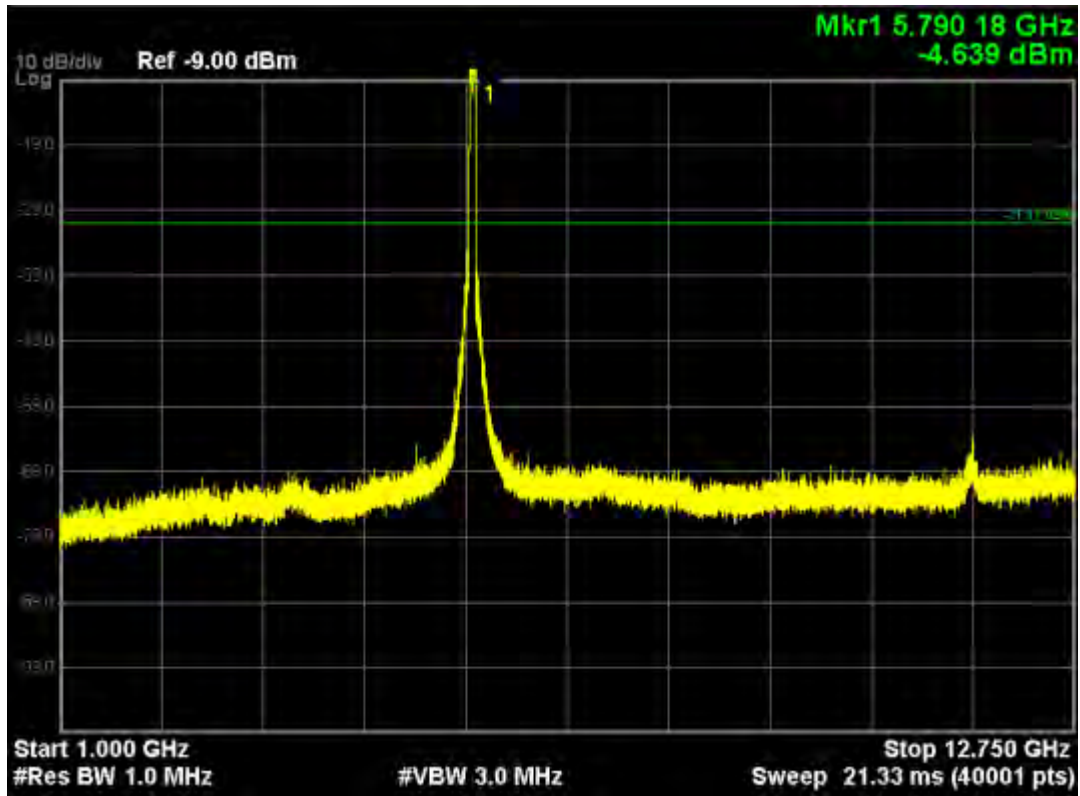
Note: The Mark1 point is carrier.



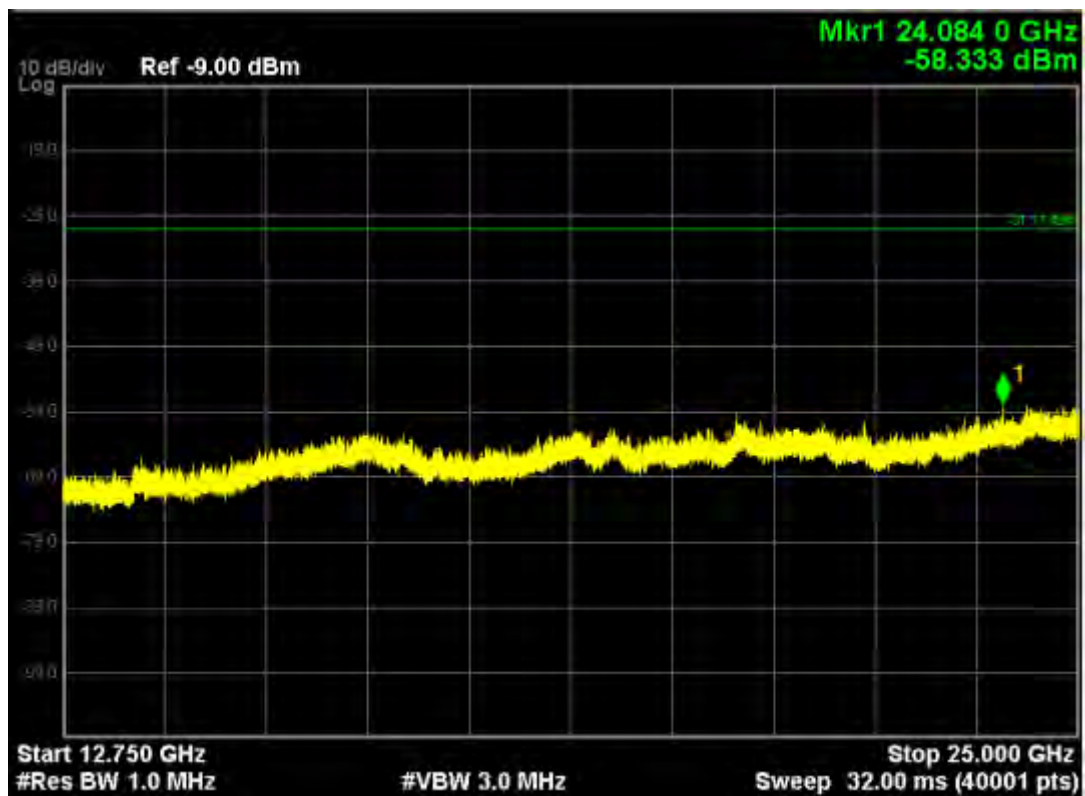
802.11ac80, traffic mode; Channel 155



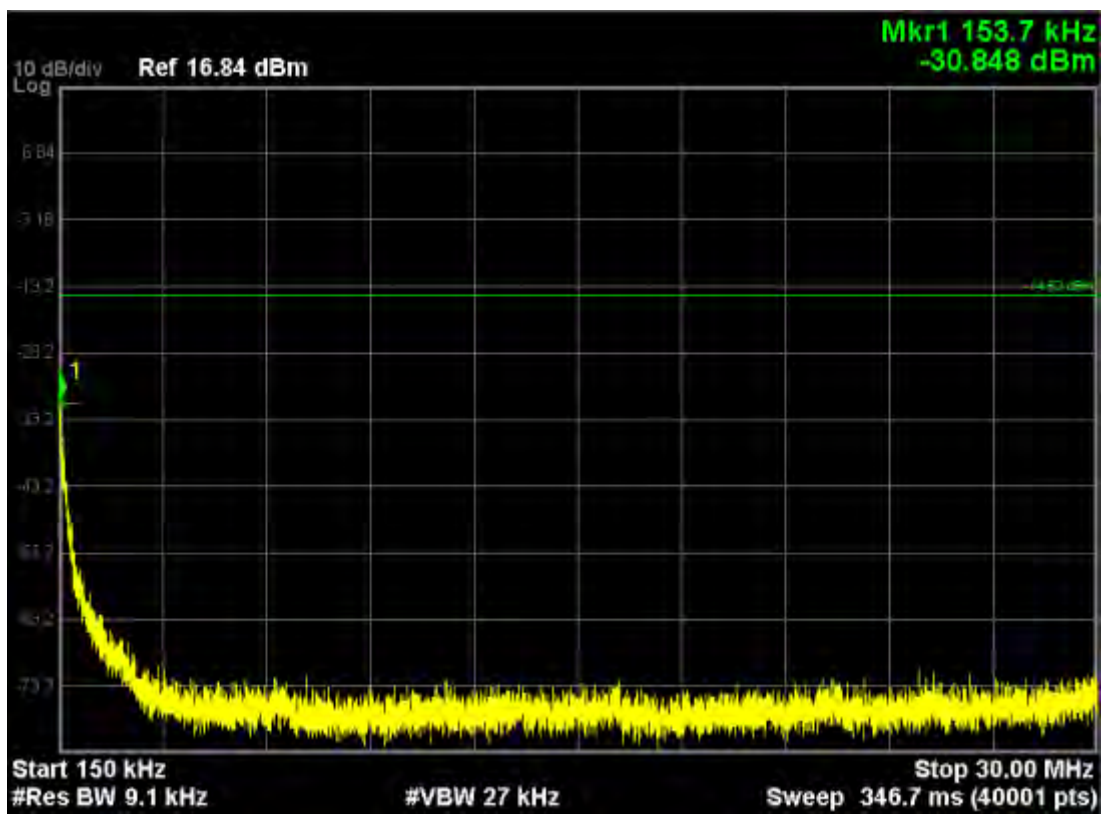
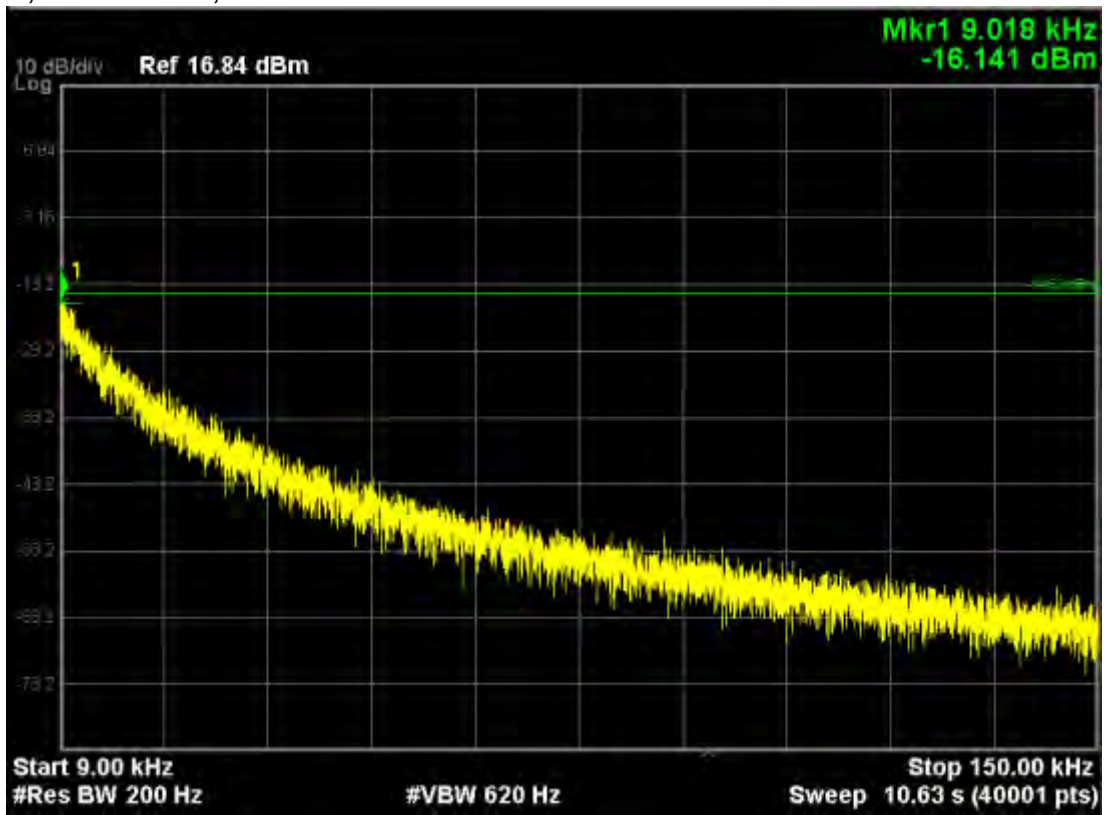


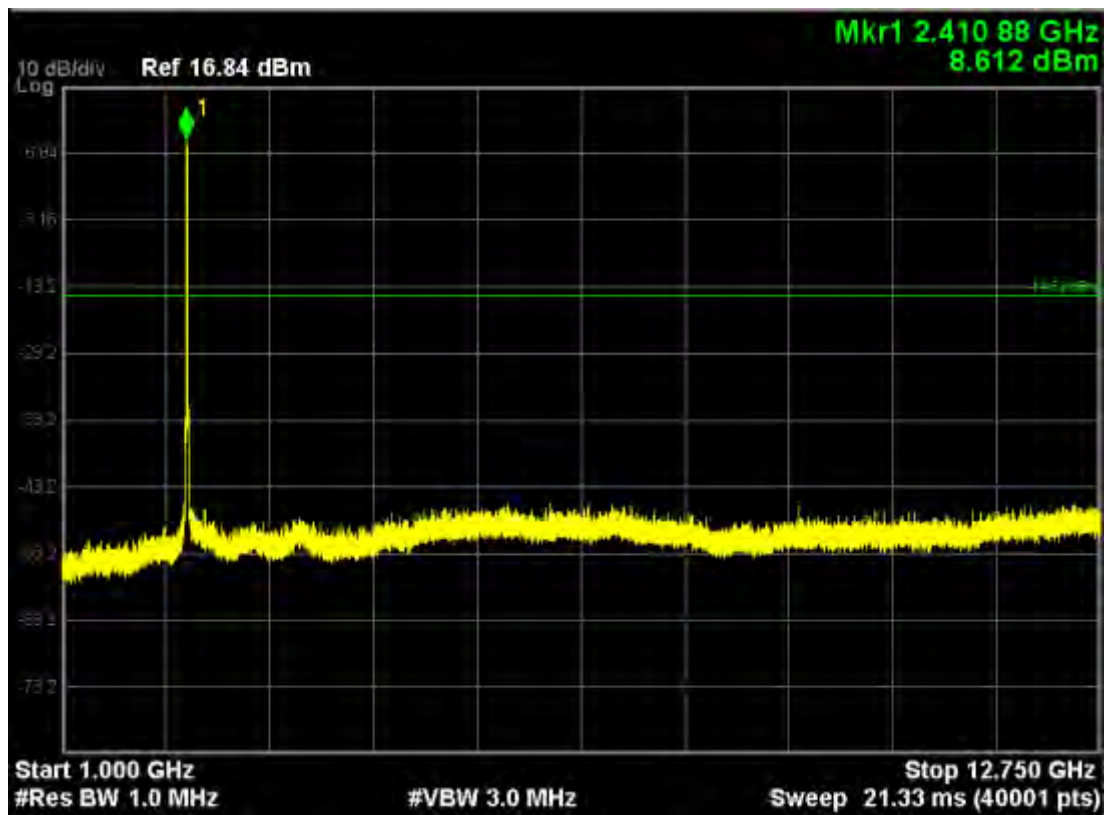
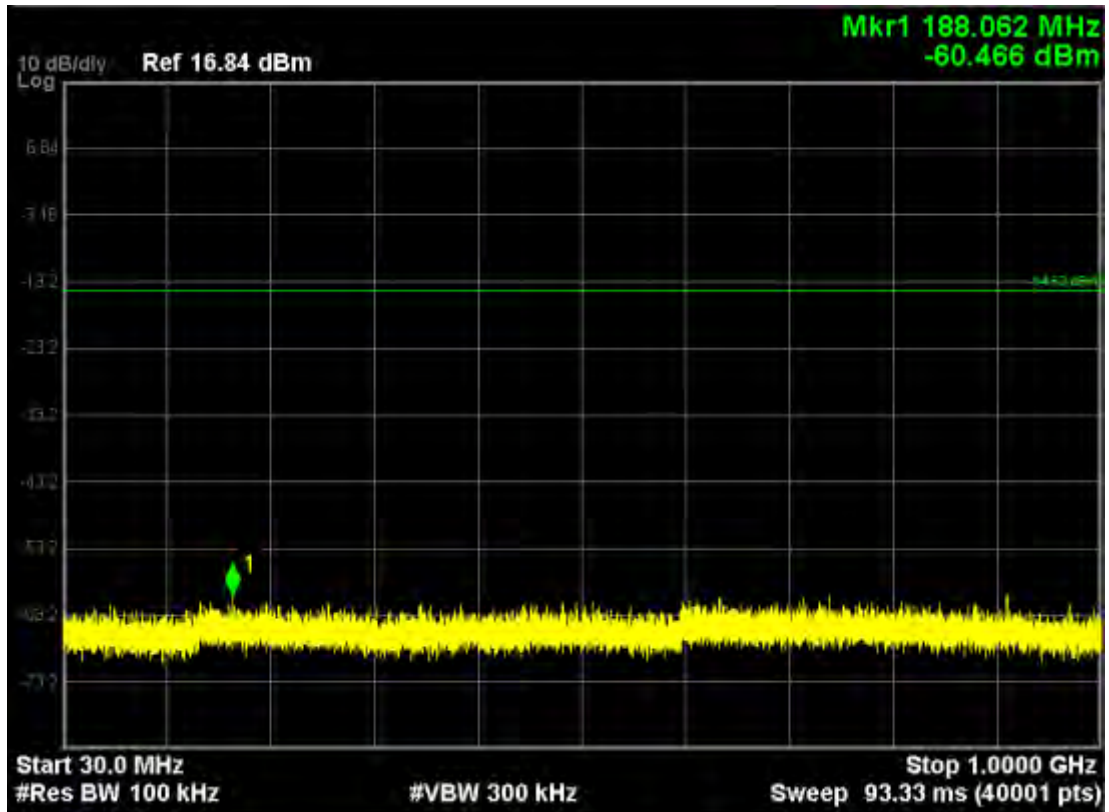


Note: The Mark1 point is carrier.

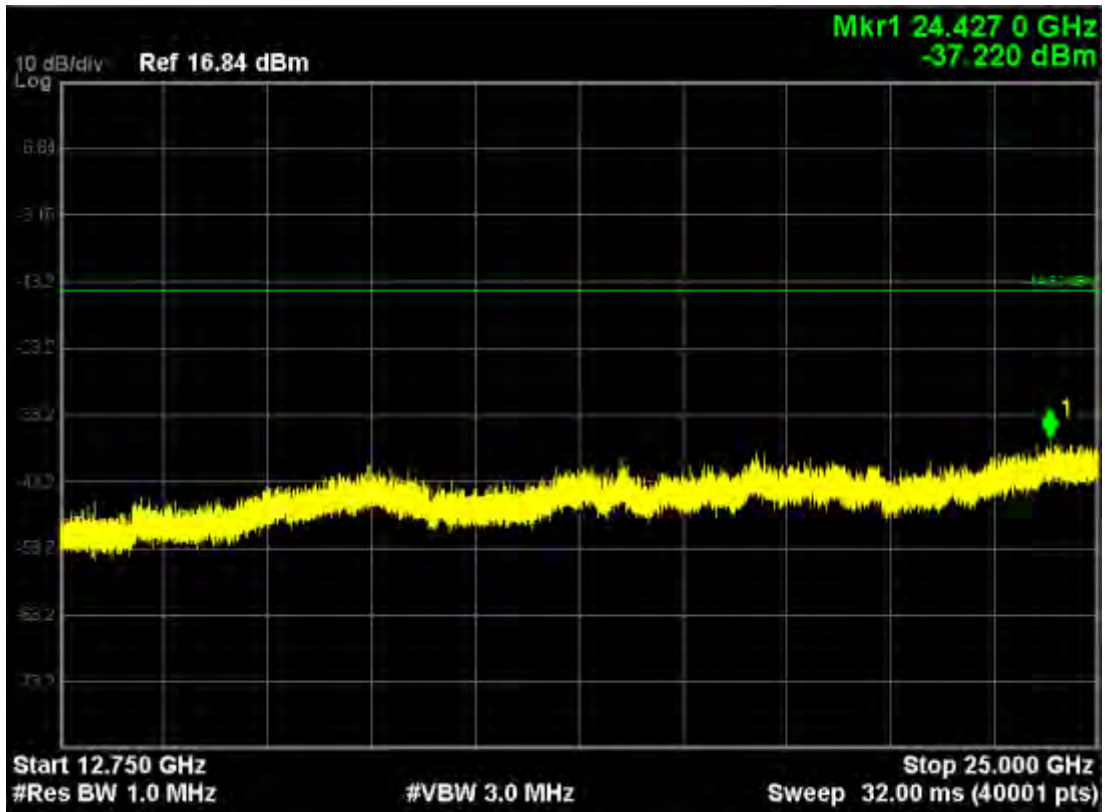


Antenna 2&Mimo
WIFI 2.4G
802.11b, traffic mode; Channel 1

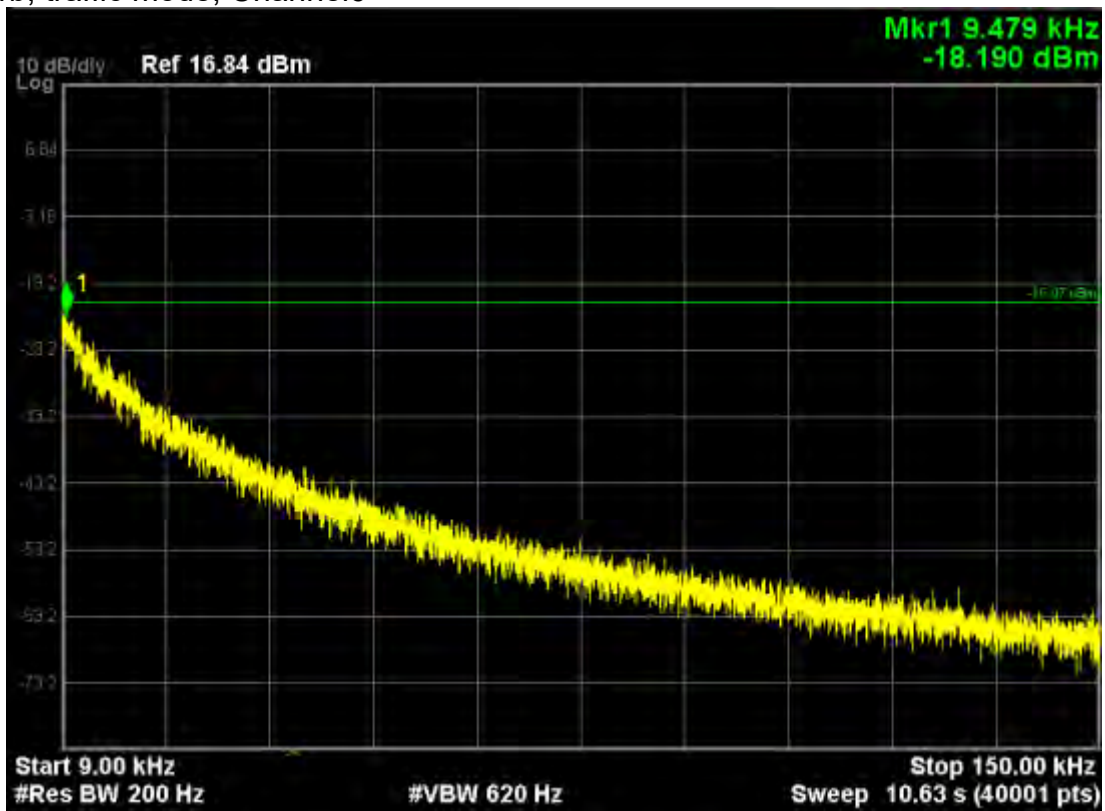


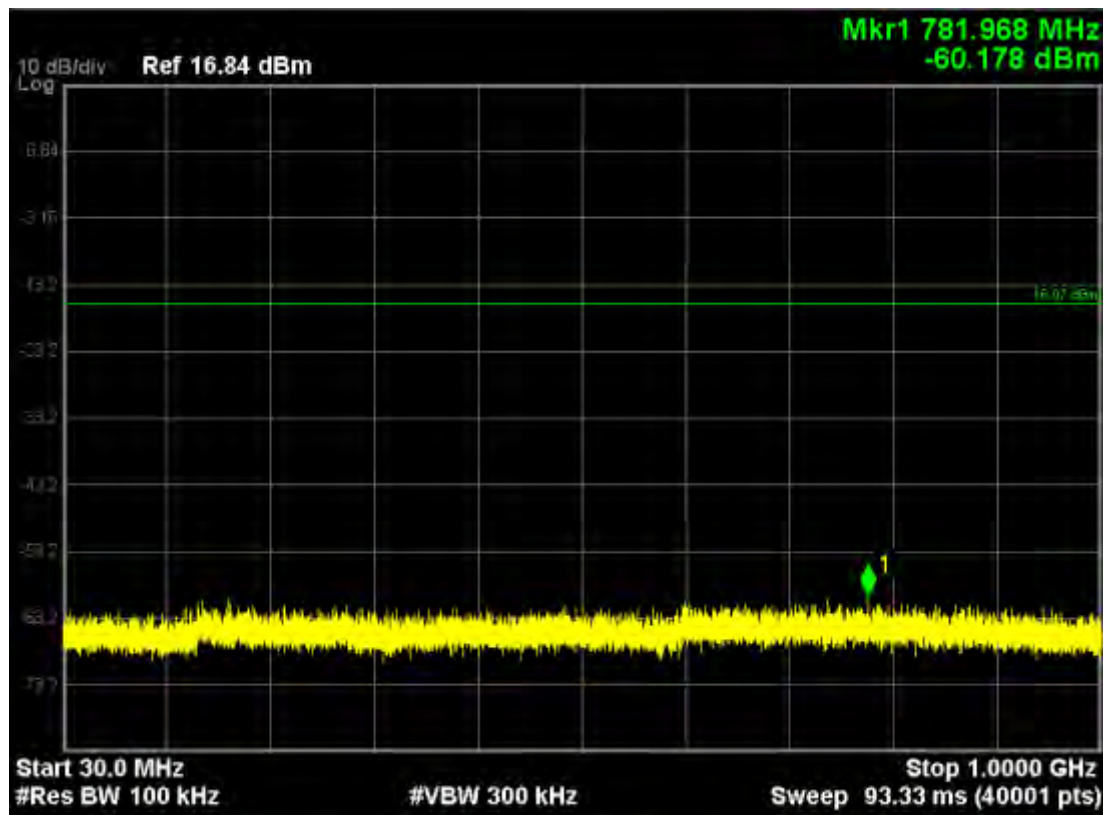
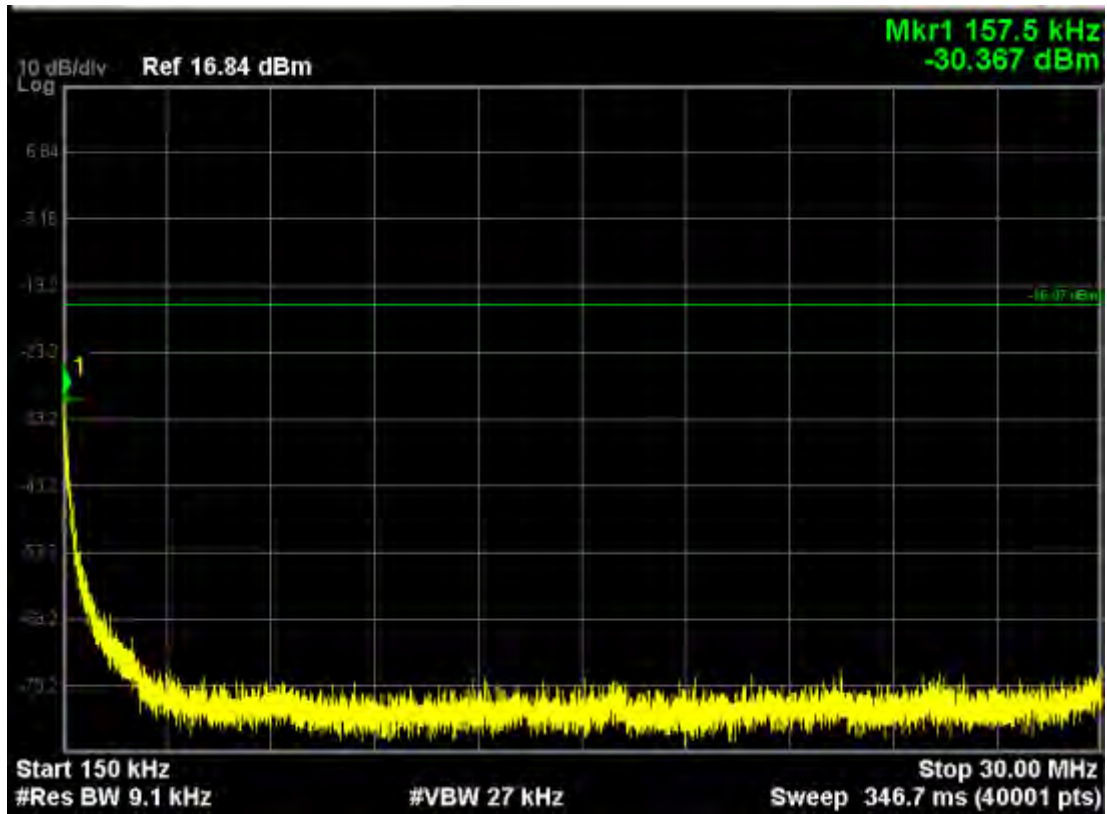


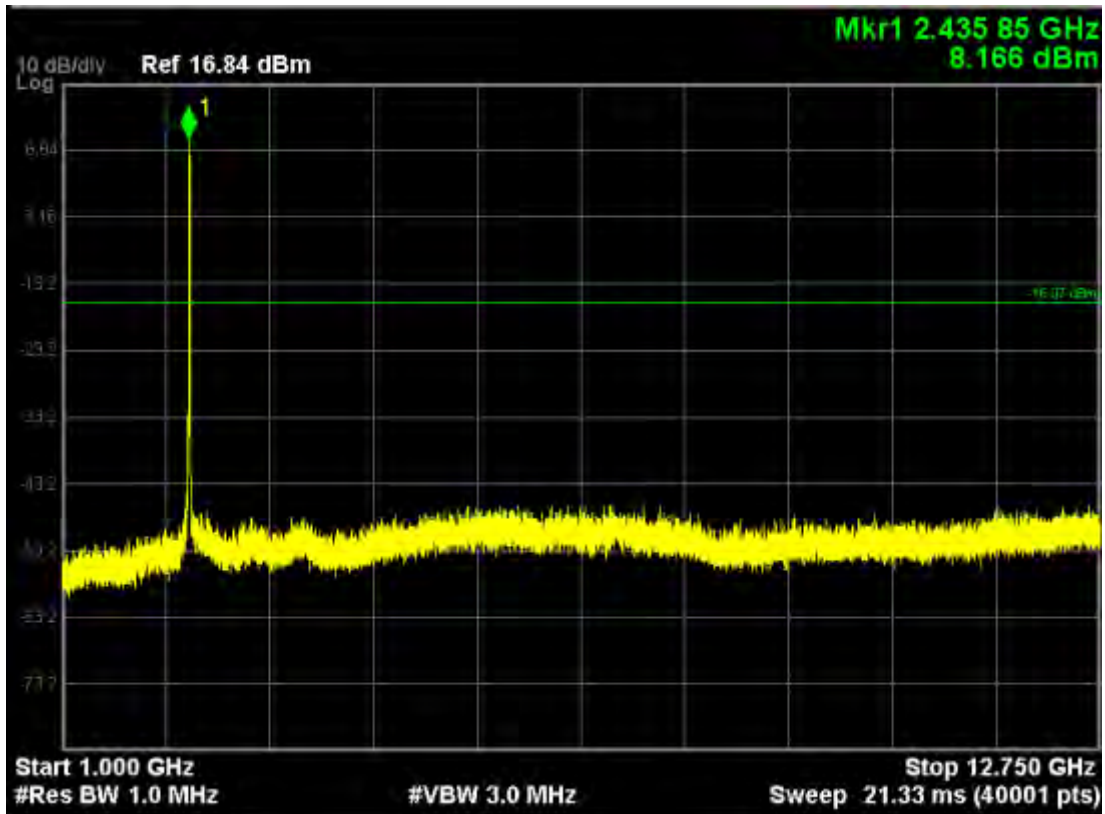
Note: The Mark1 point is carrier.



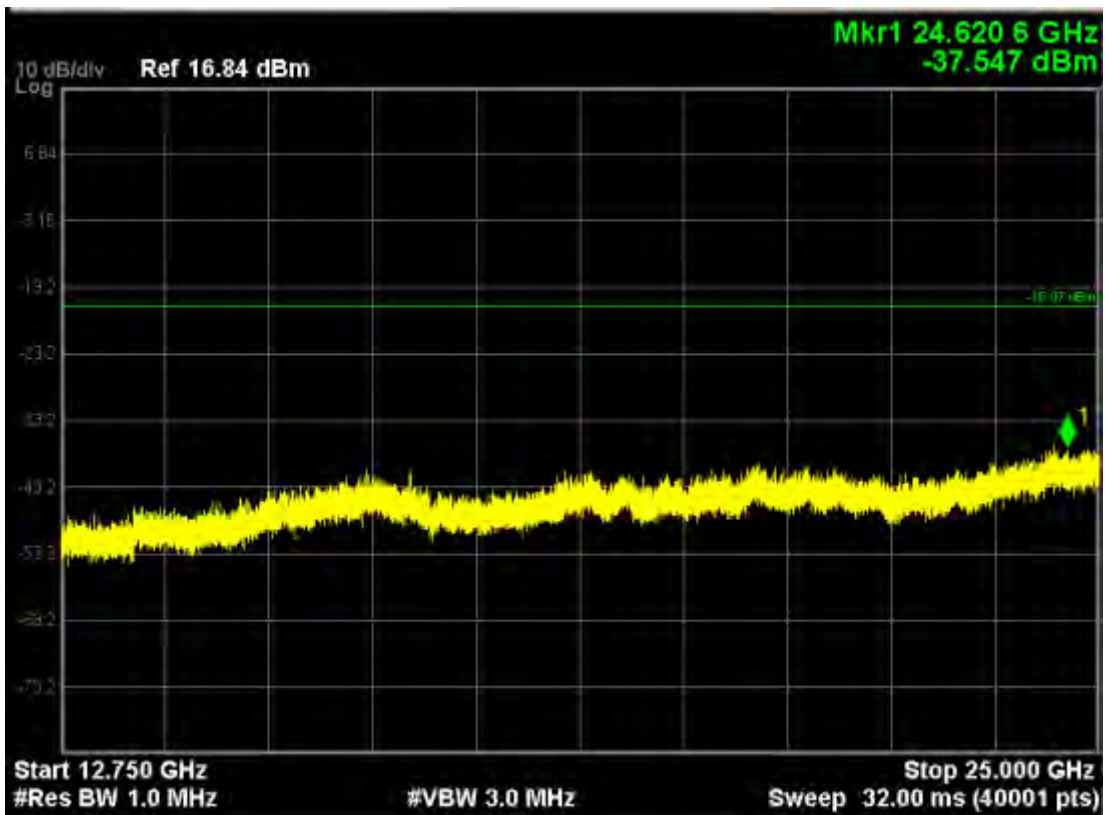
802.11b, traffic mode; Channel6



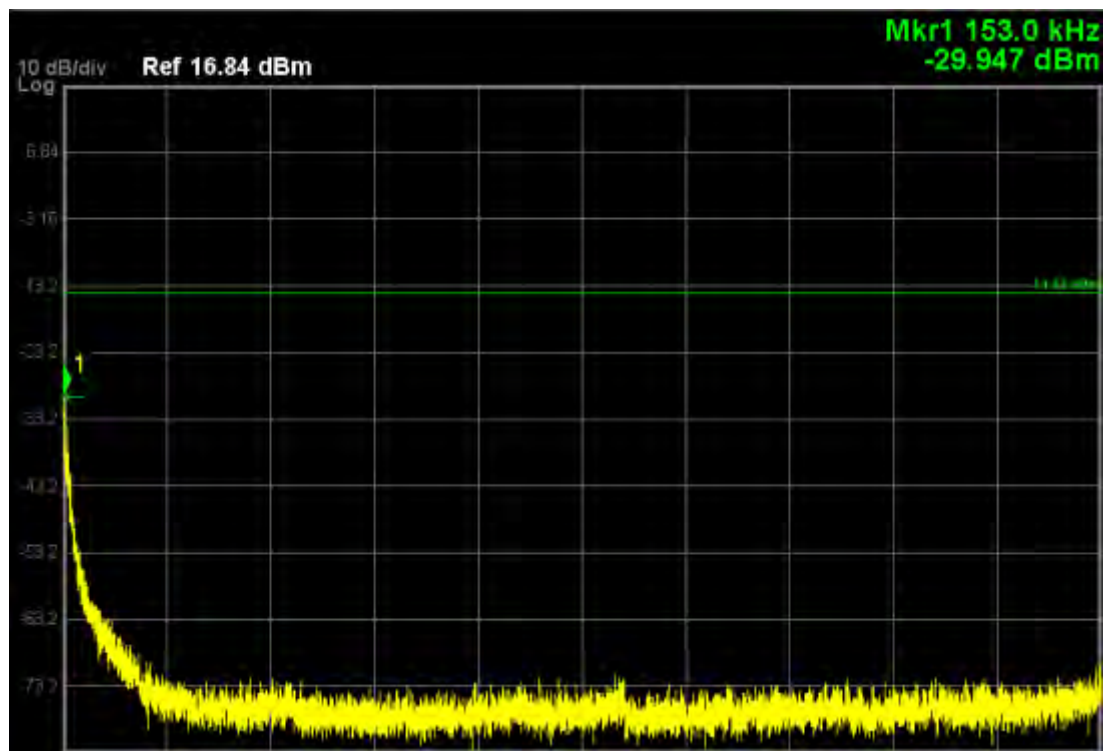
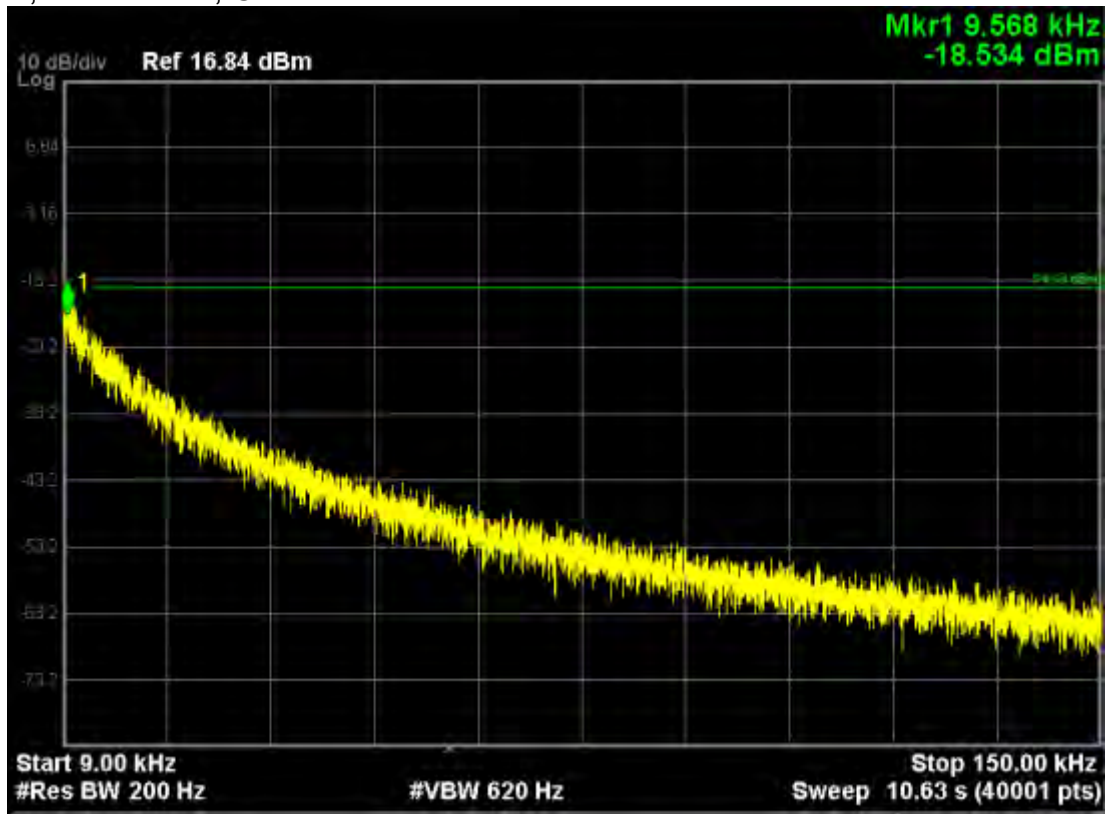


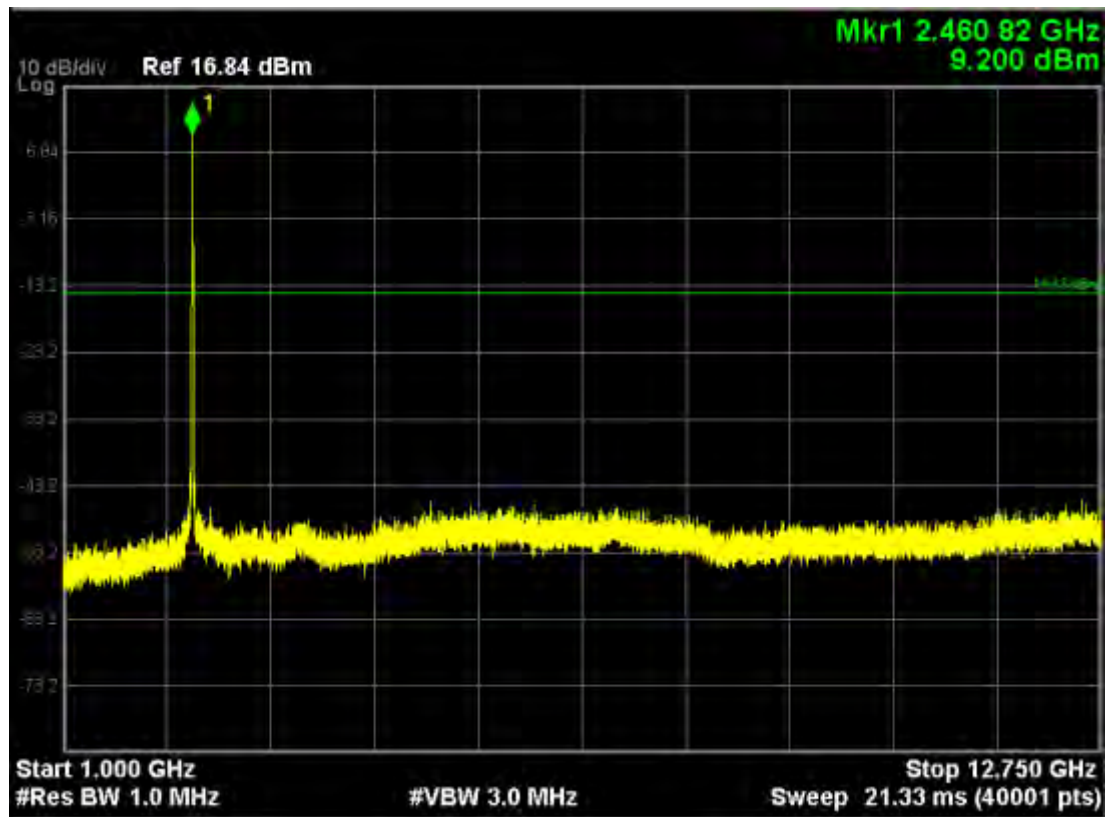
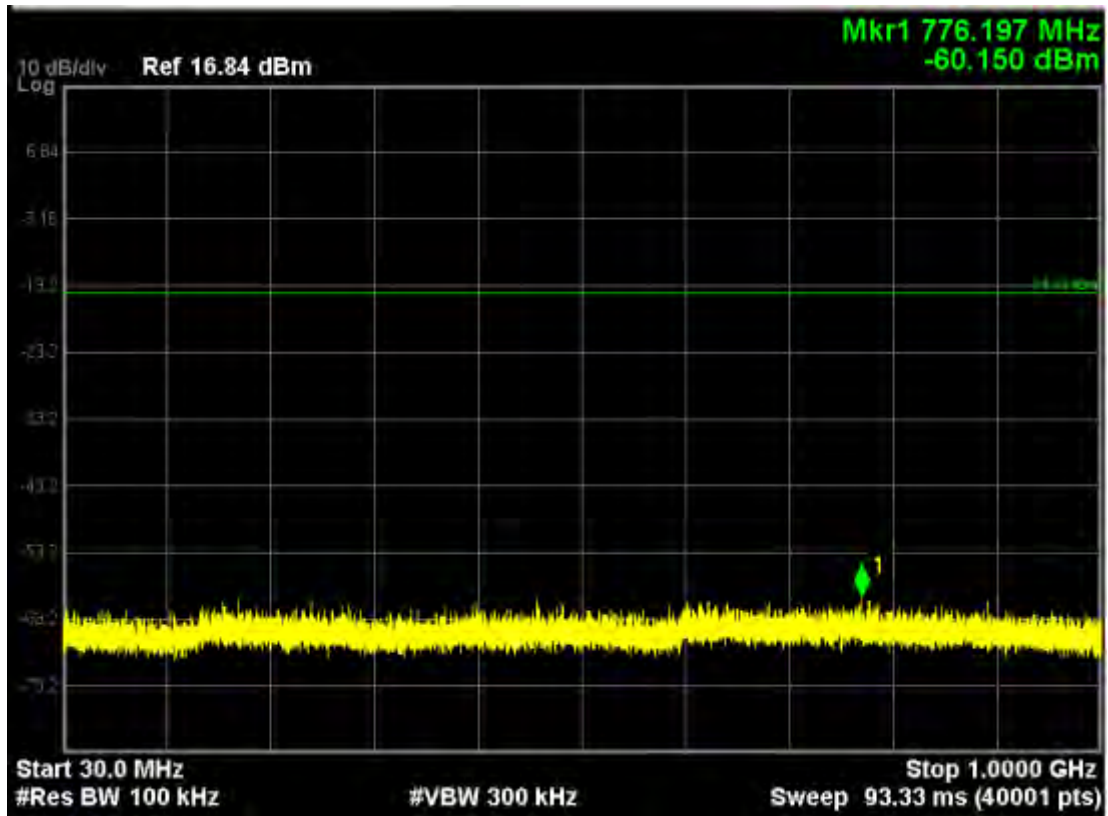


Note: The Mark1 point is carrier.

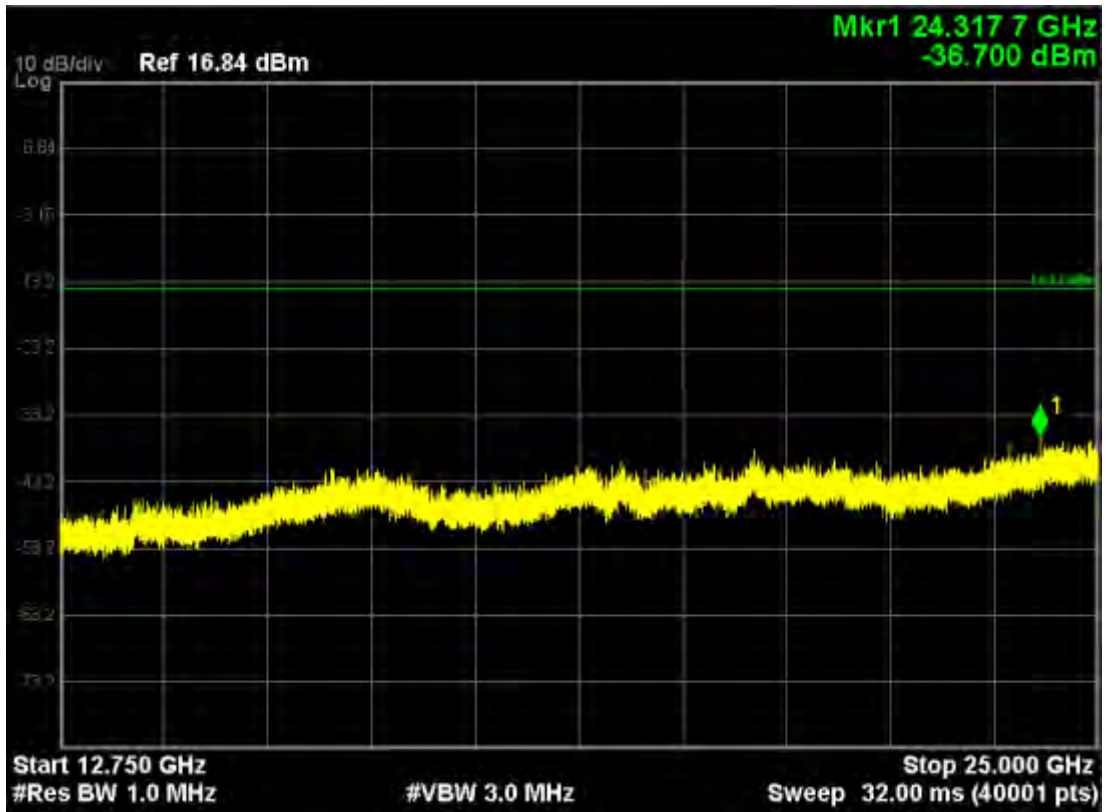


802.11b, traffic mode; Channel 11

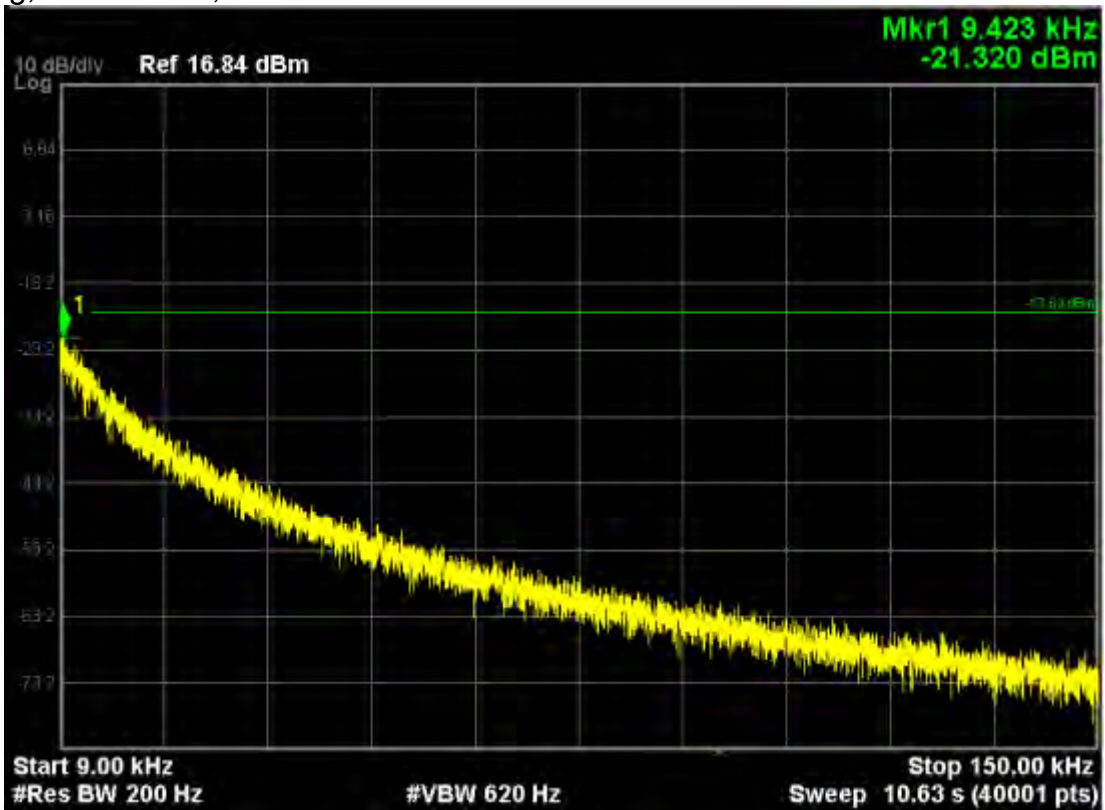


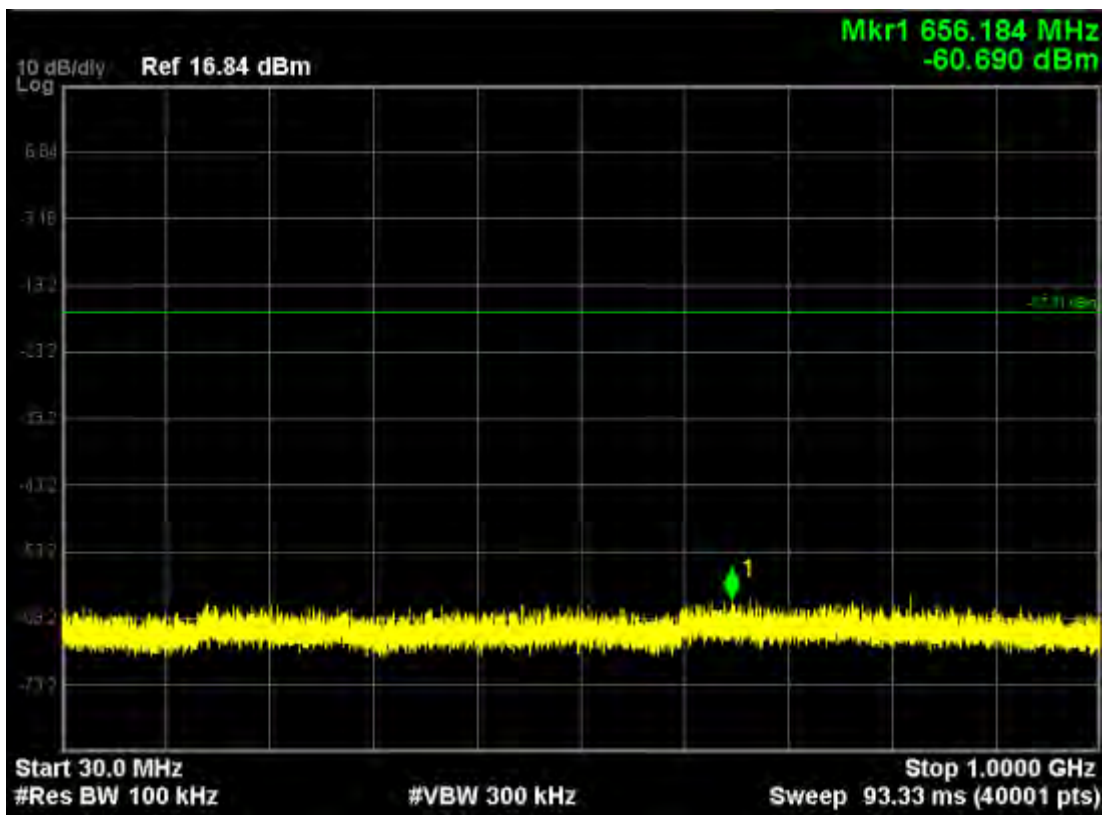
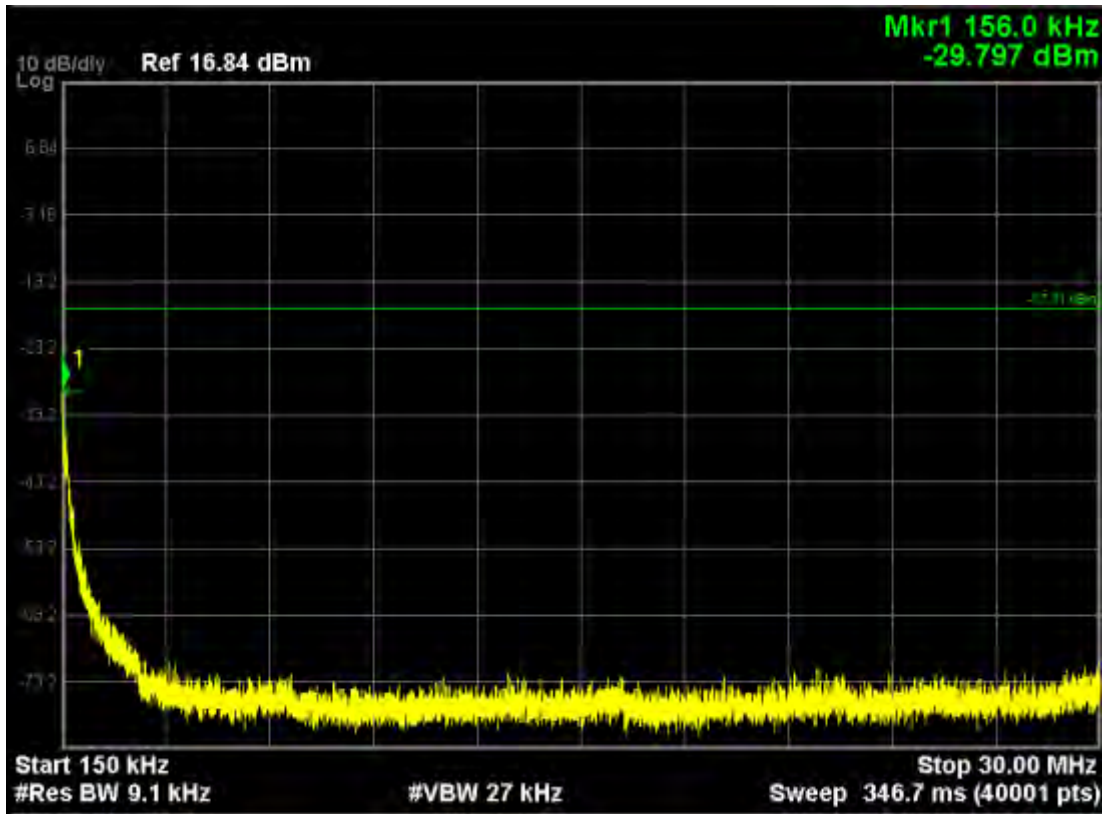


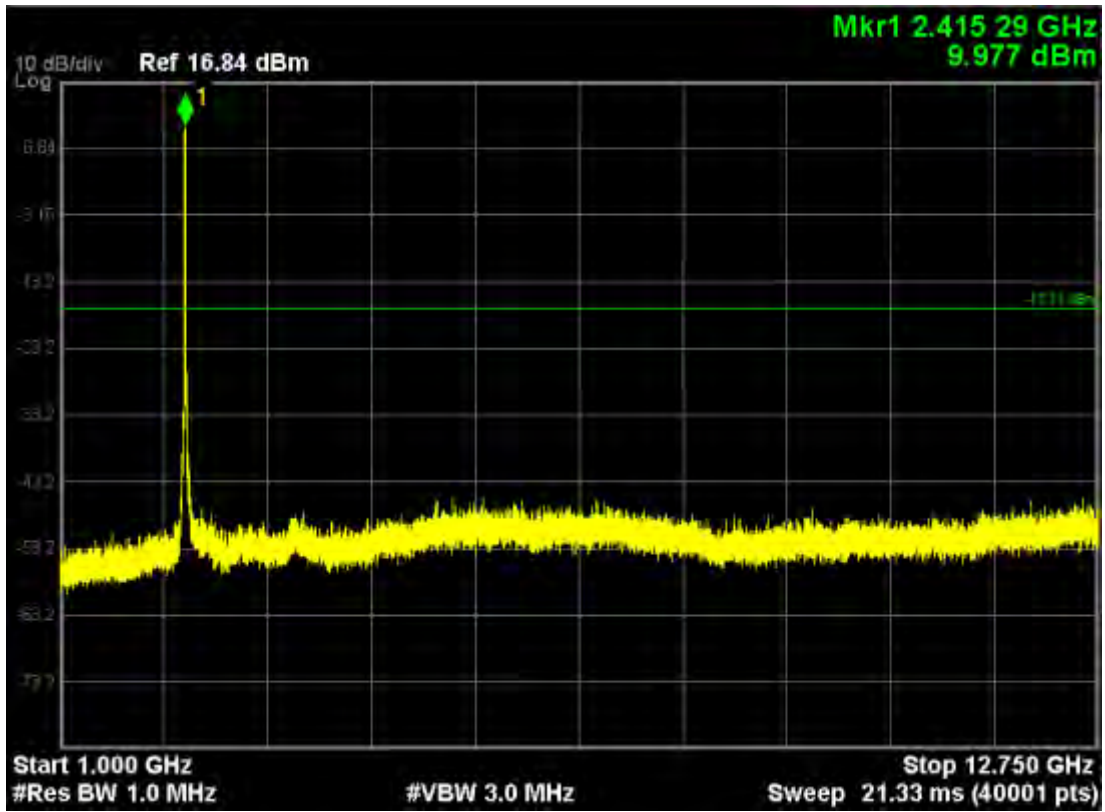
Note: The Mark1 point is carrier.



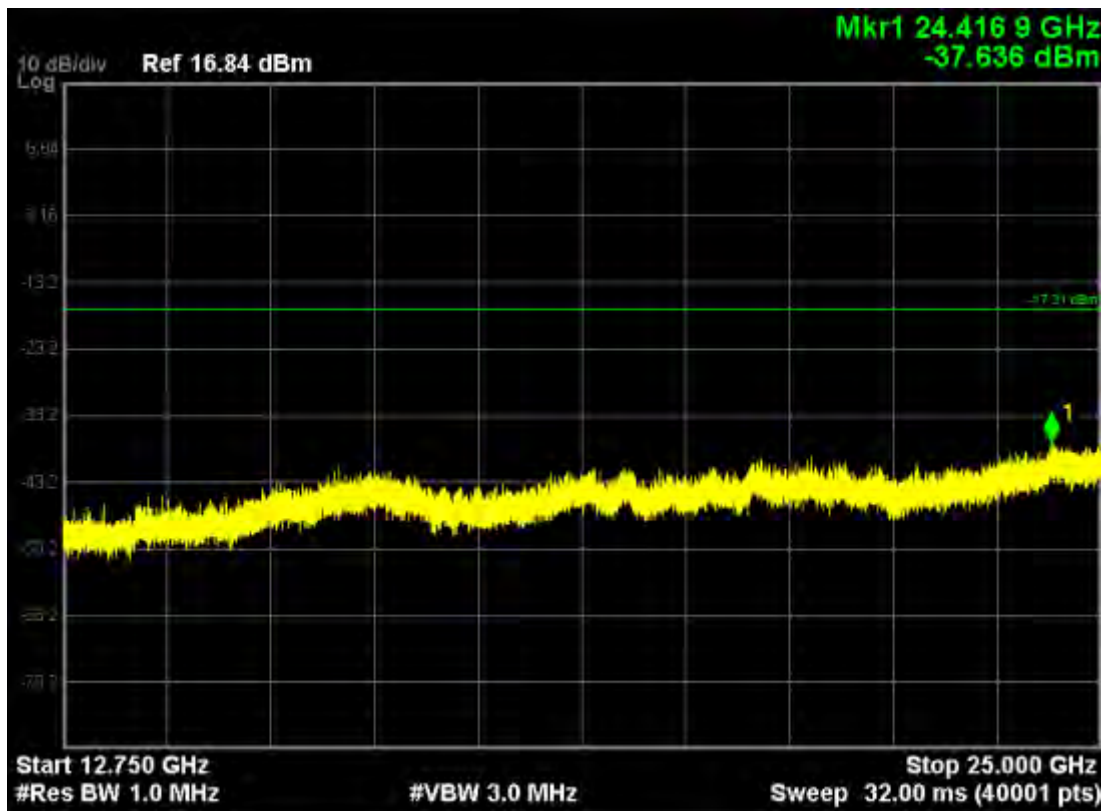
802.11g, traffic mode; Channel 1



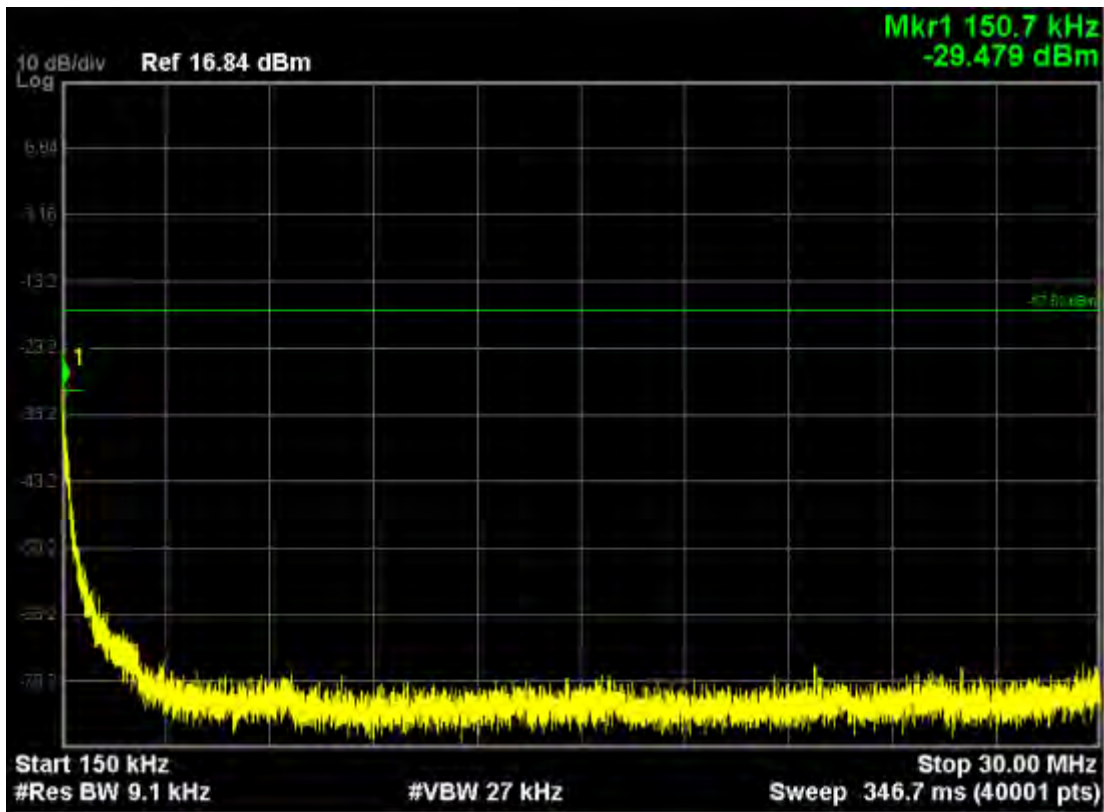
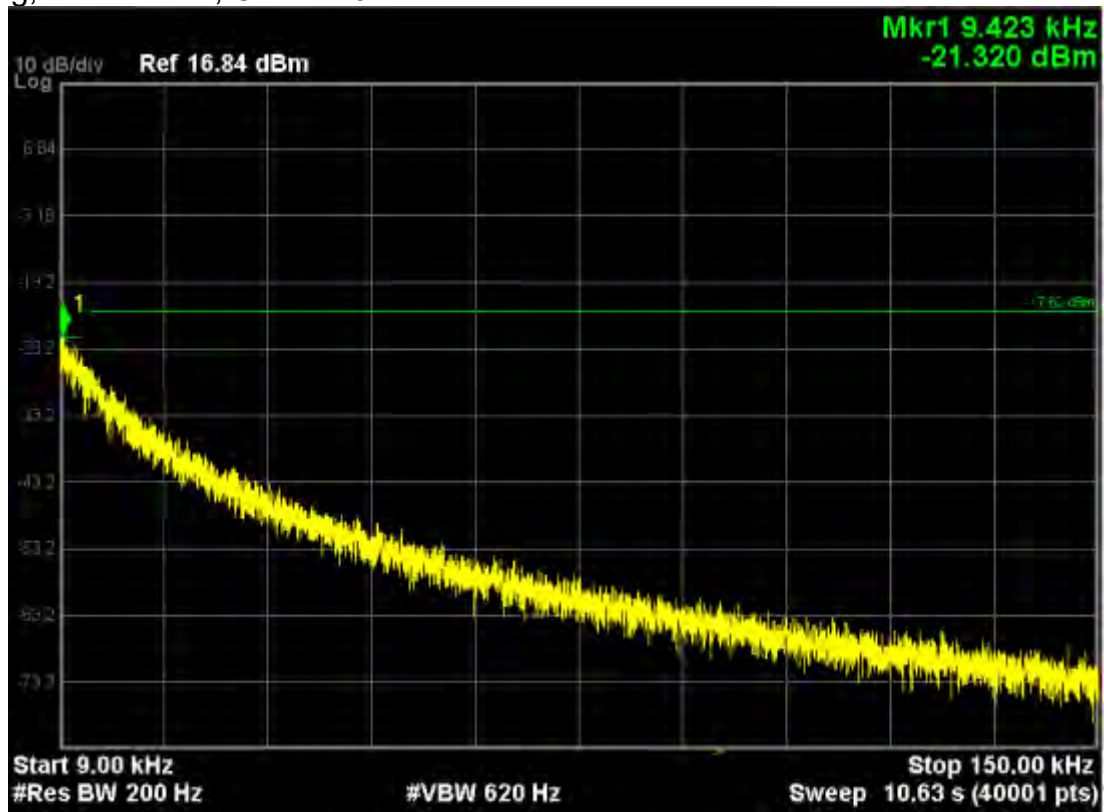


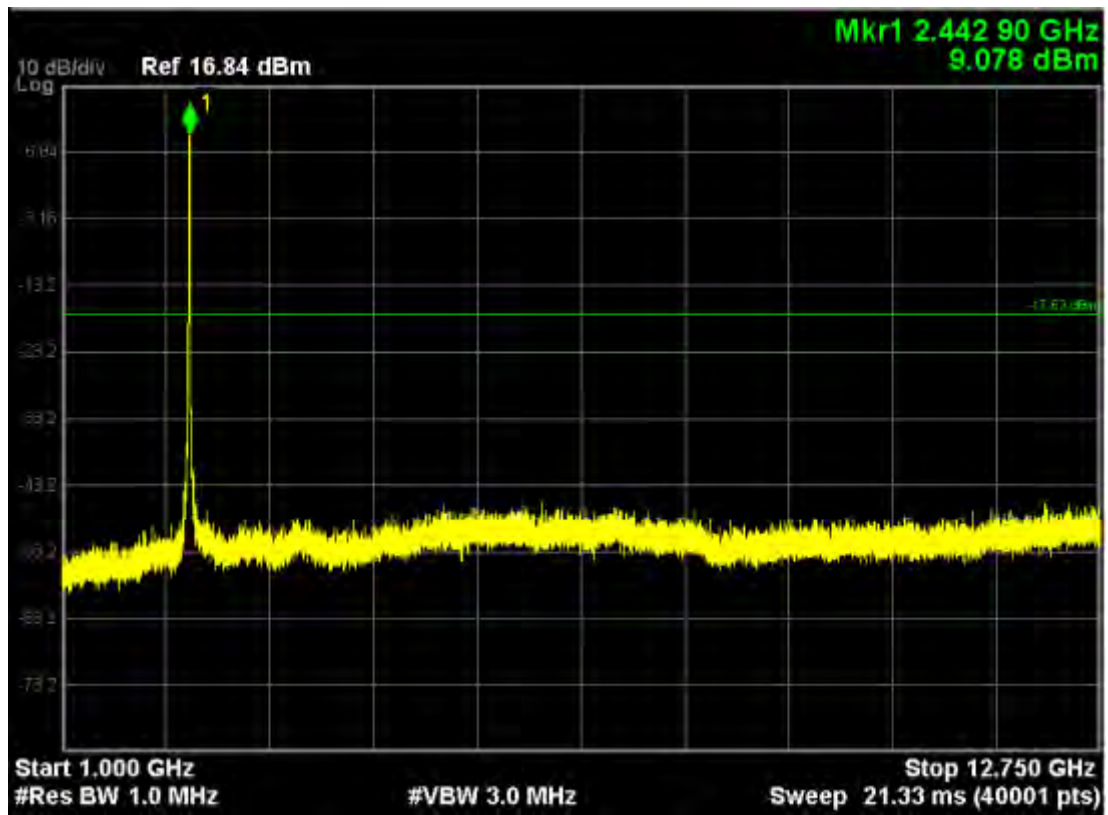
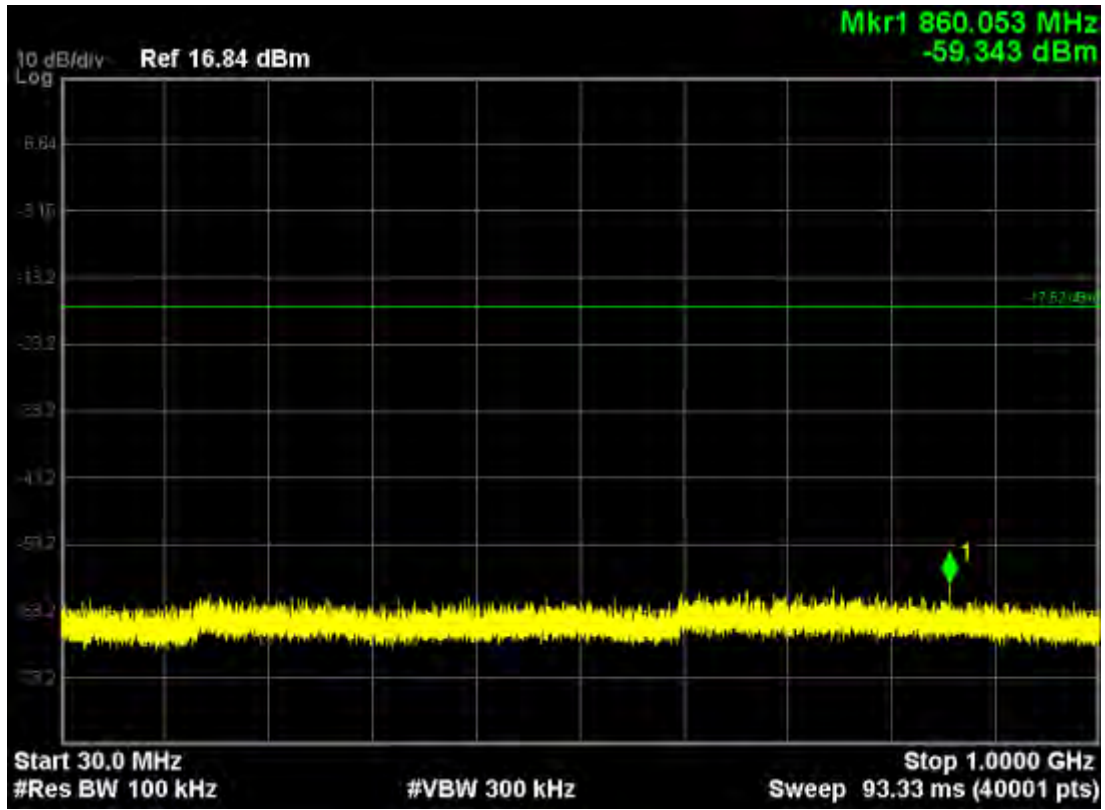


Note: The Mark1 point is carrier.

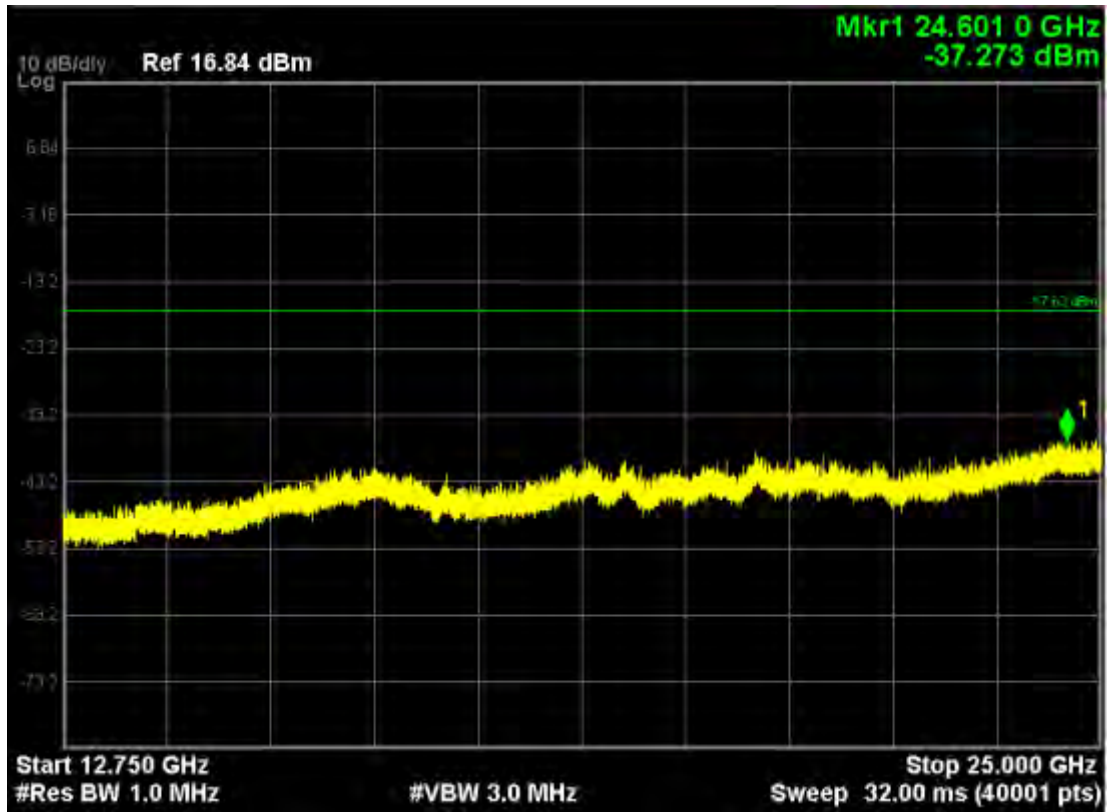


802.11g, traffic mode; Channel6

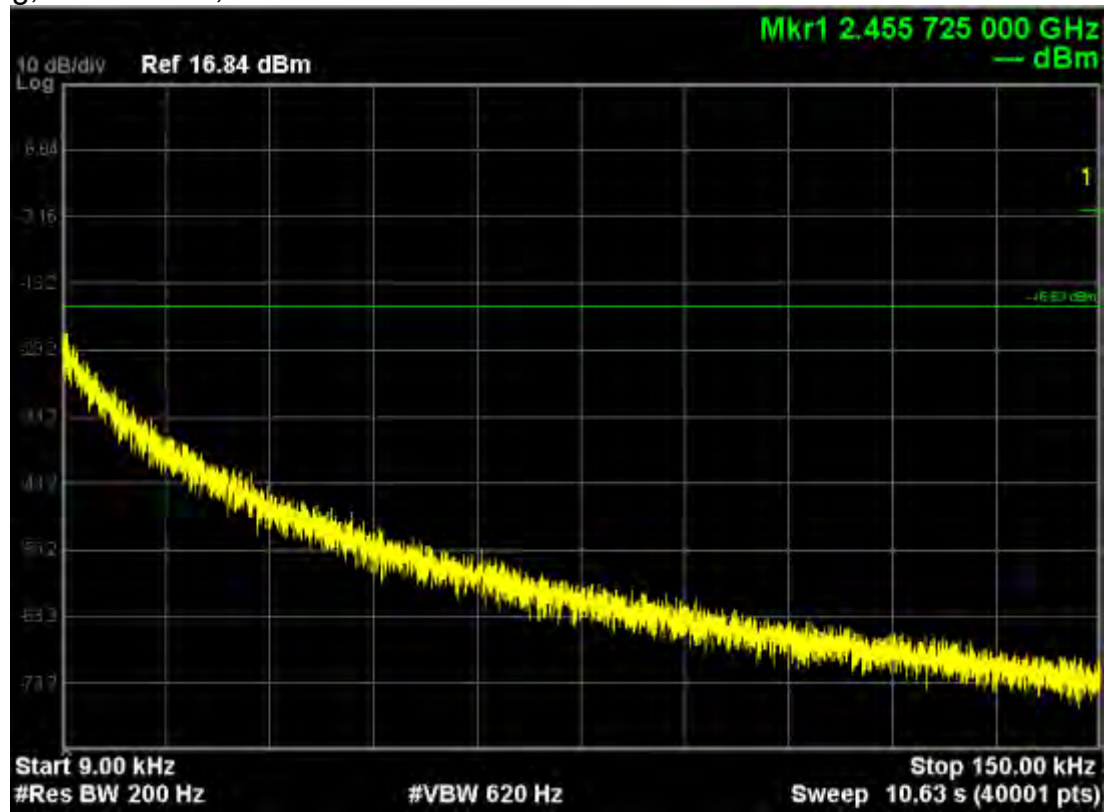


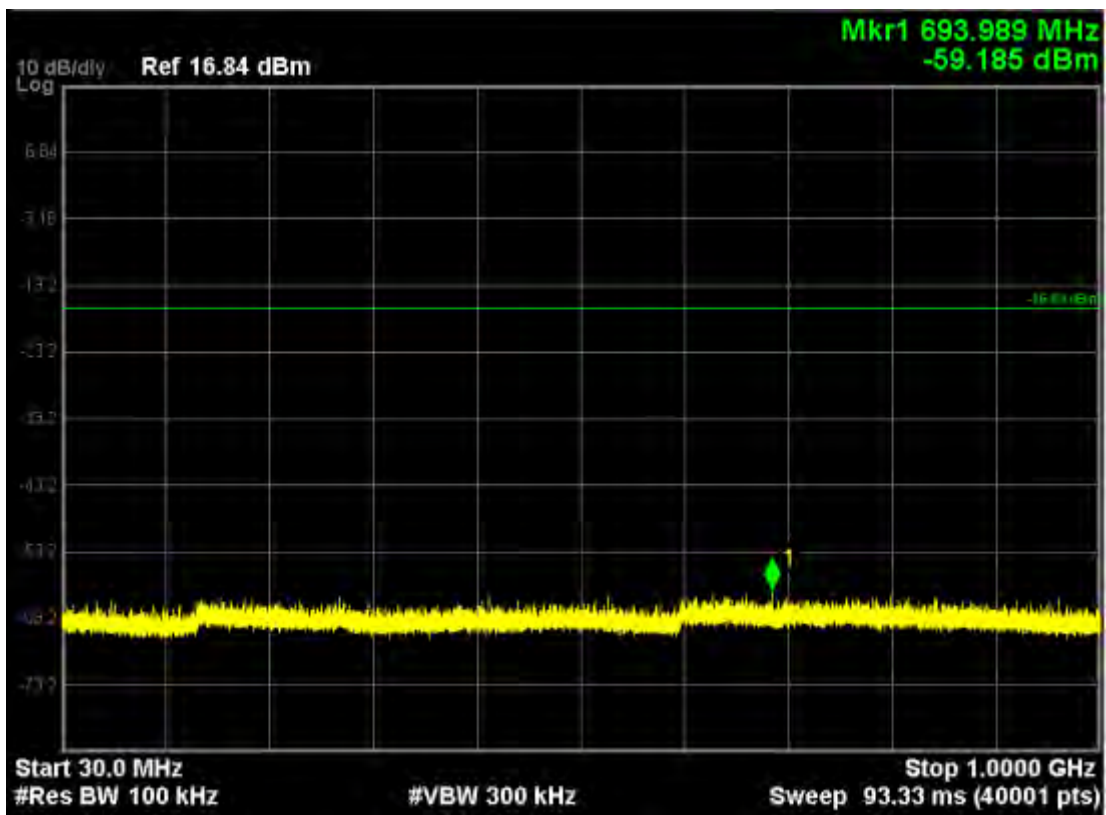
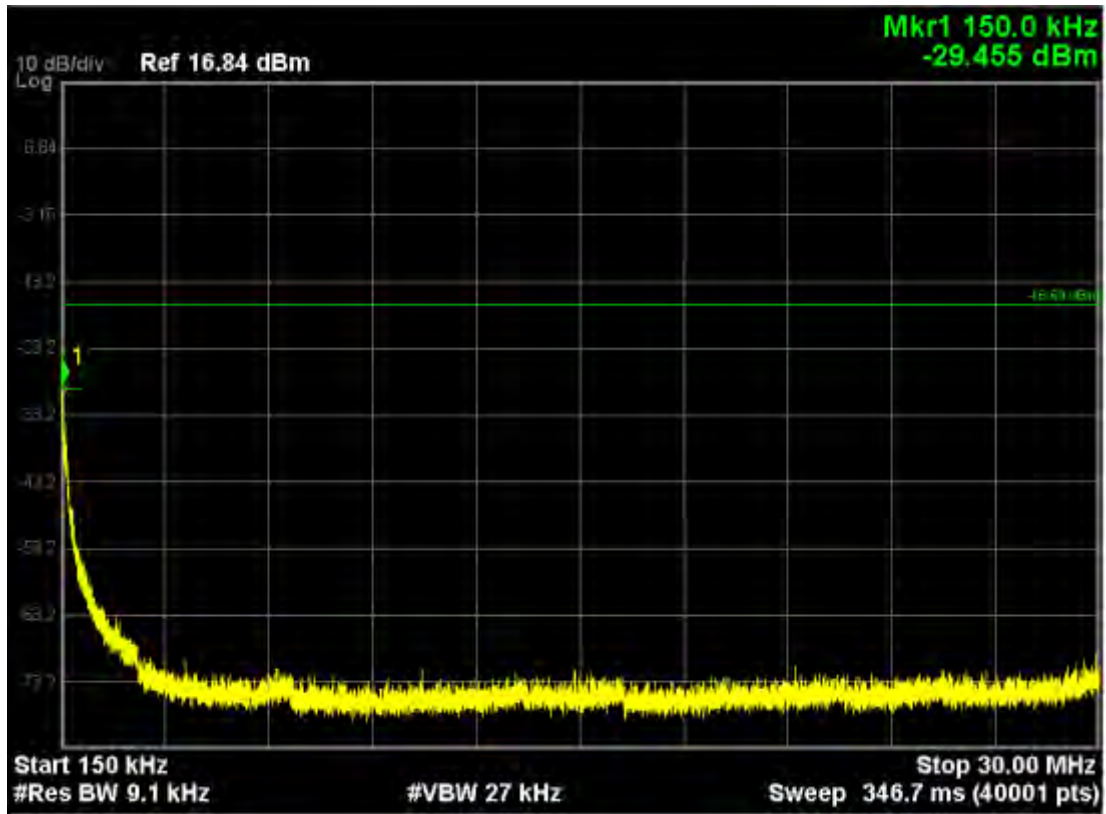


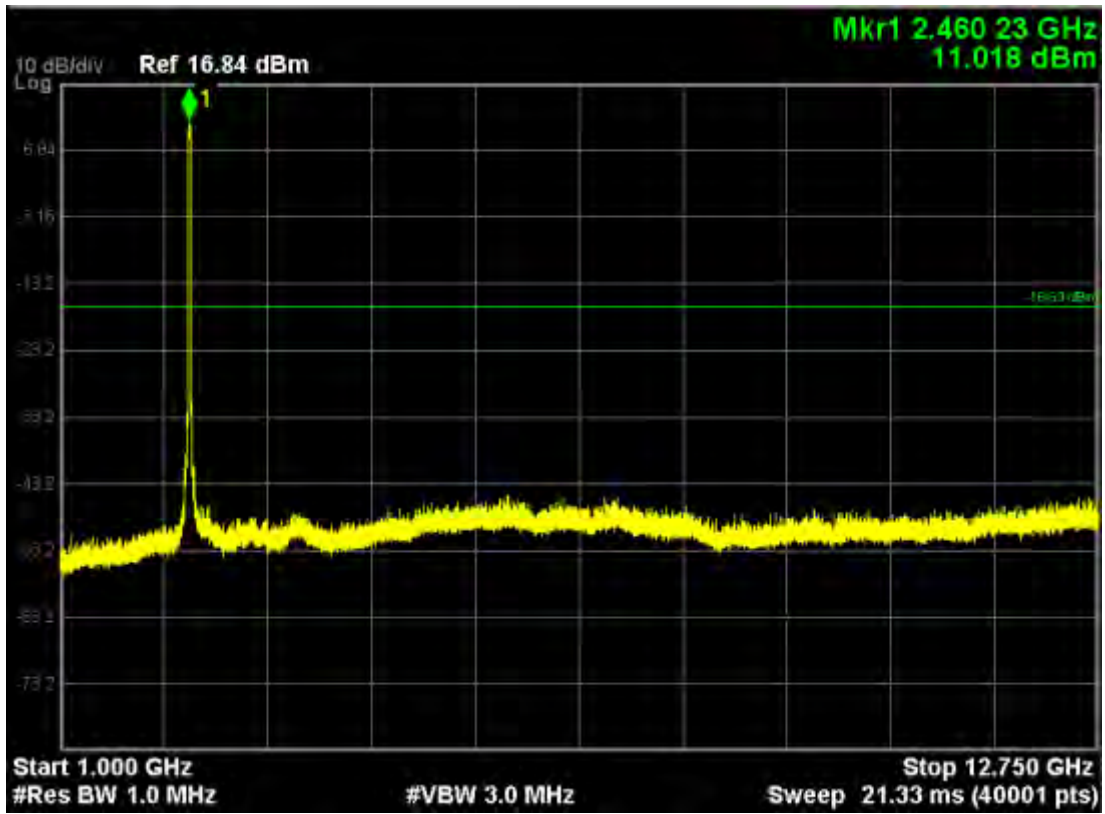
Note: The Mark1 point is carrier.



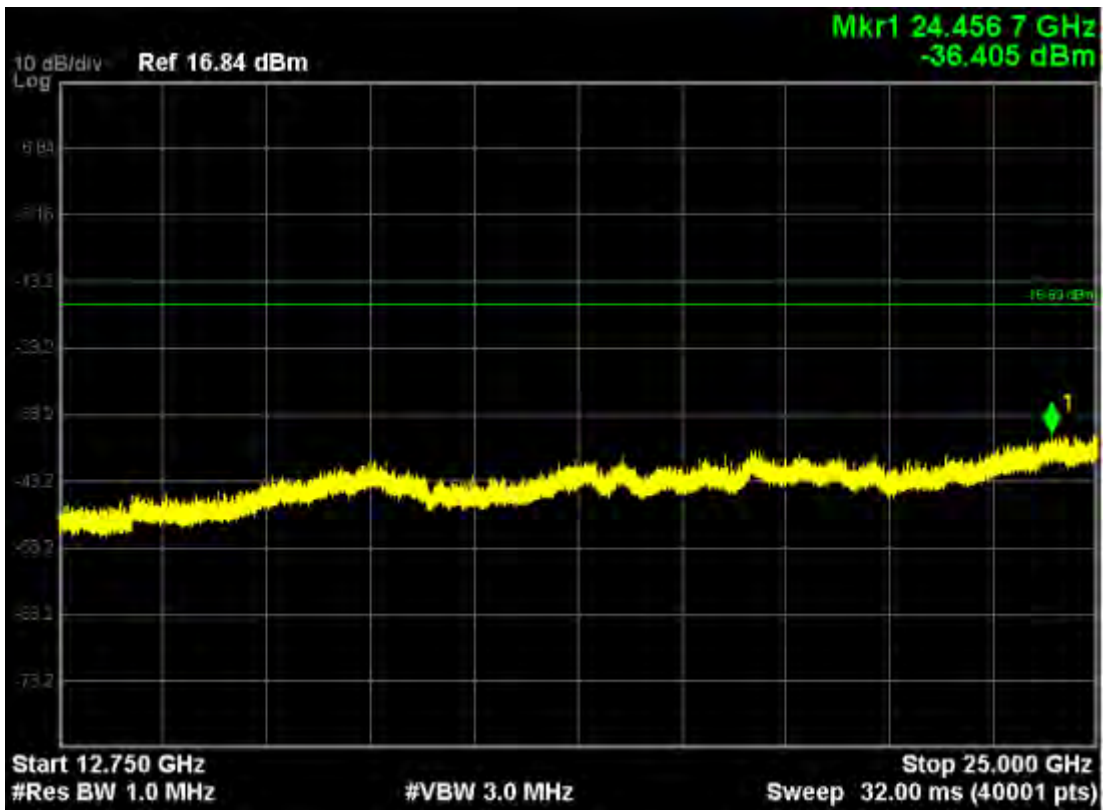
802.11g, traffic mode; Channel 11



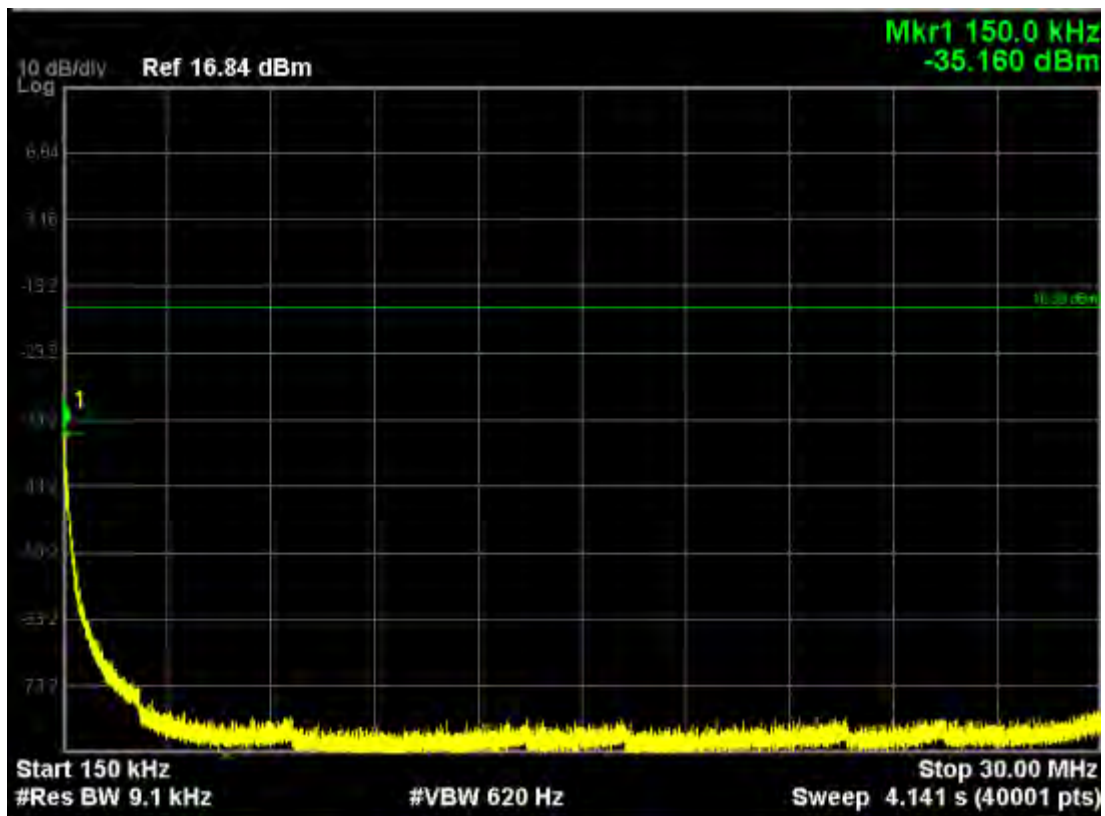
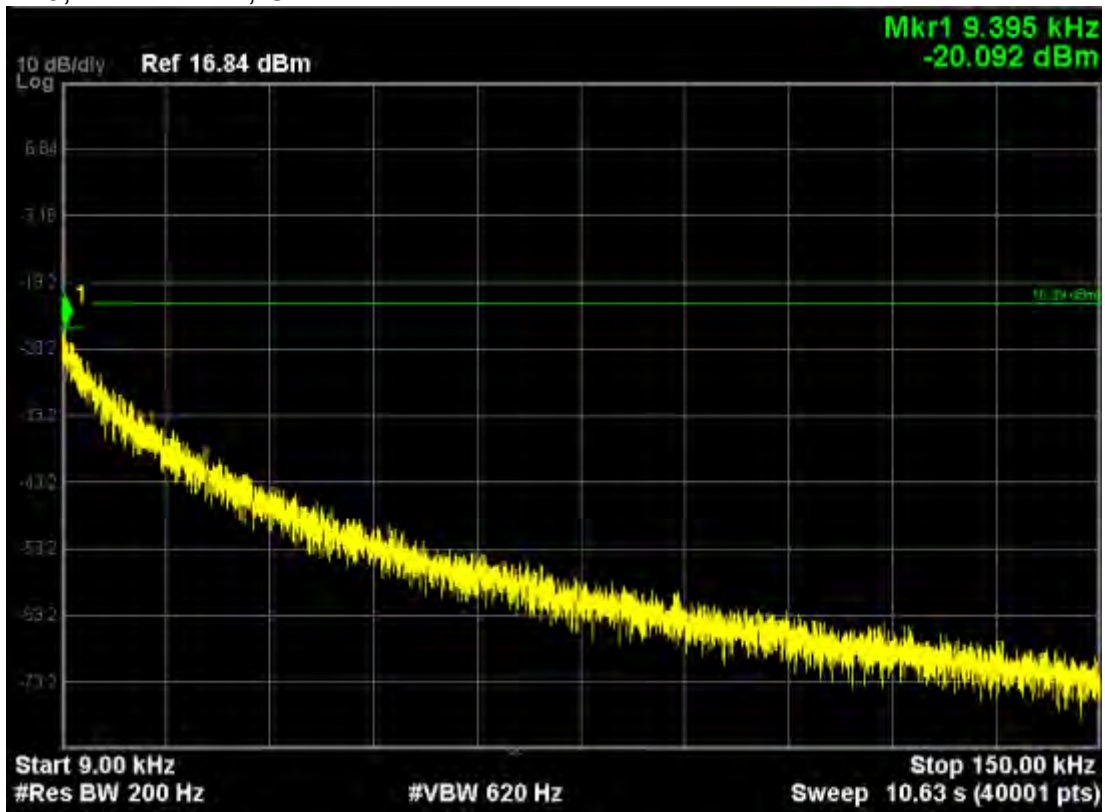


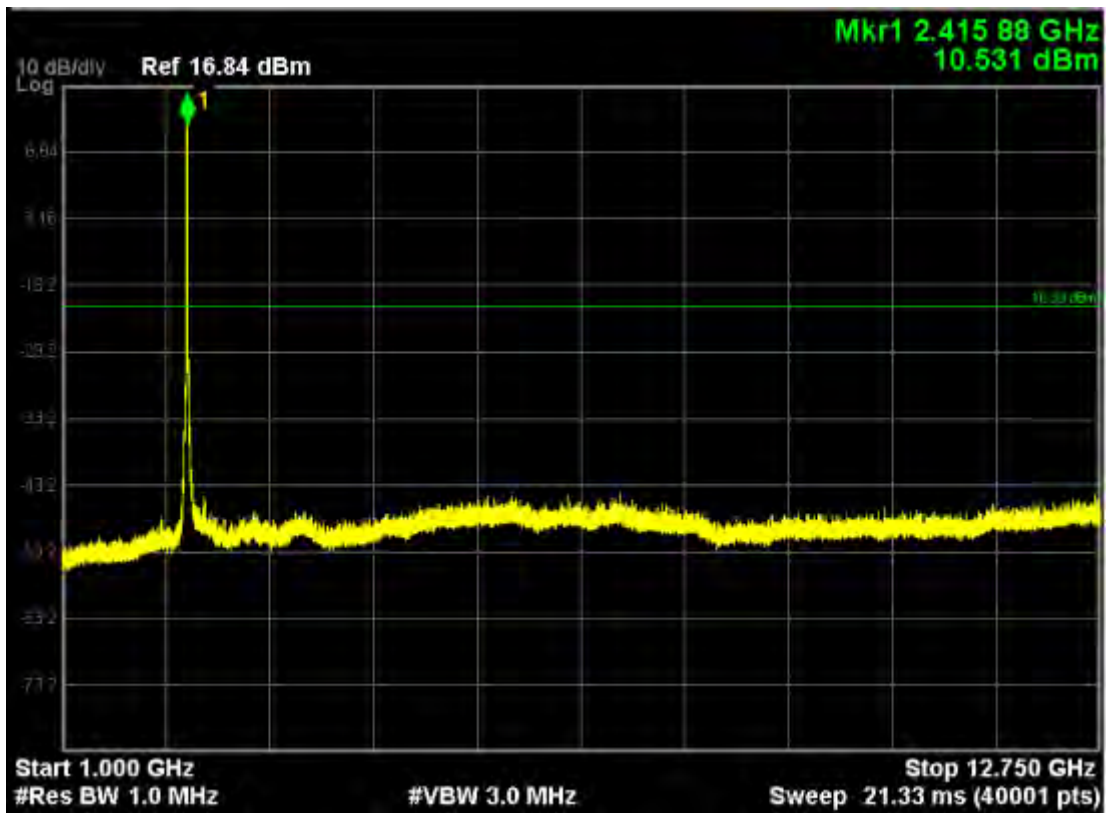
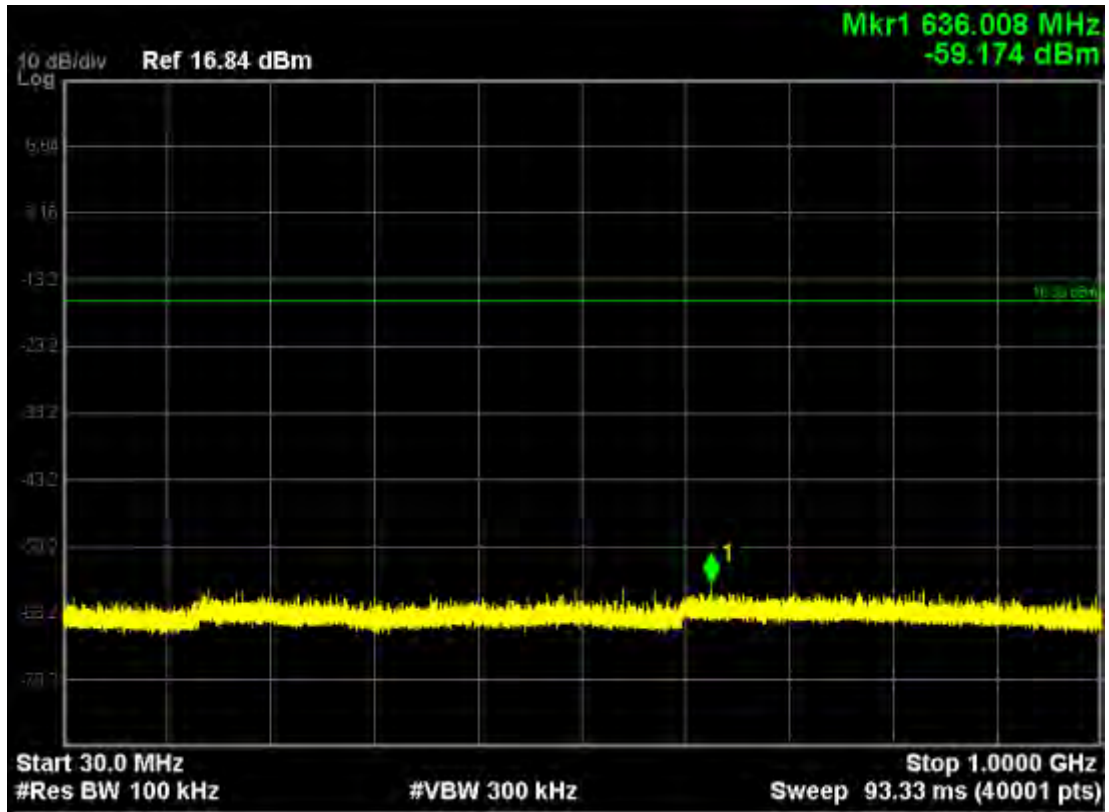


Note: The Mark1 point is carrier.



802.11n20, traffic mode; Channel 1

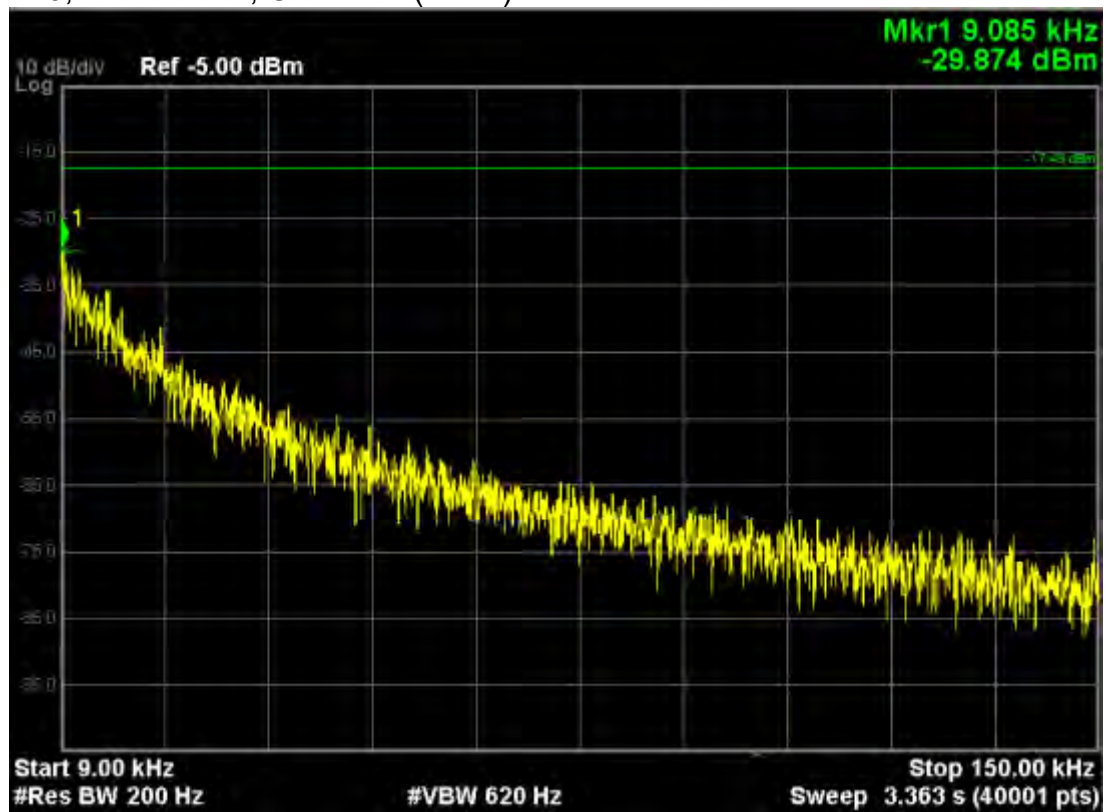


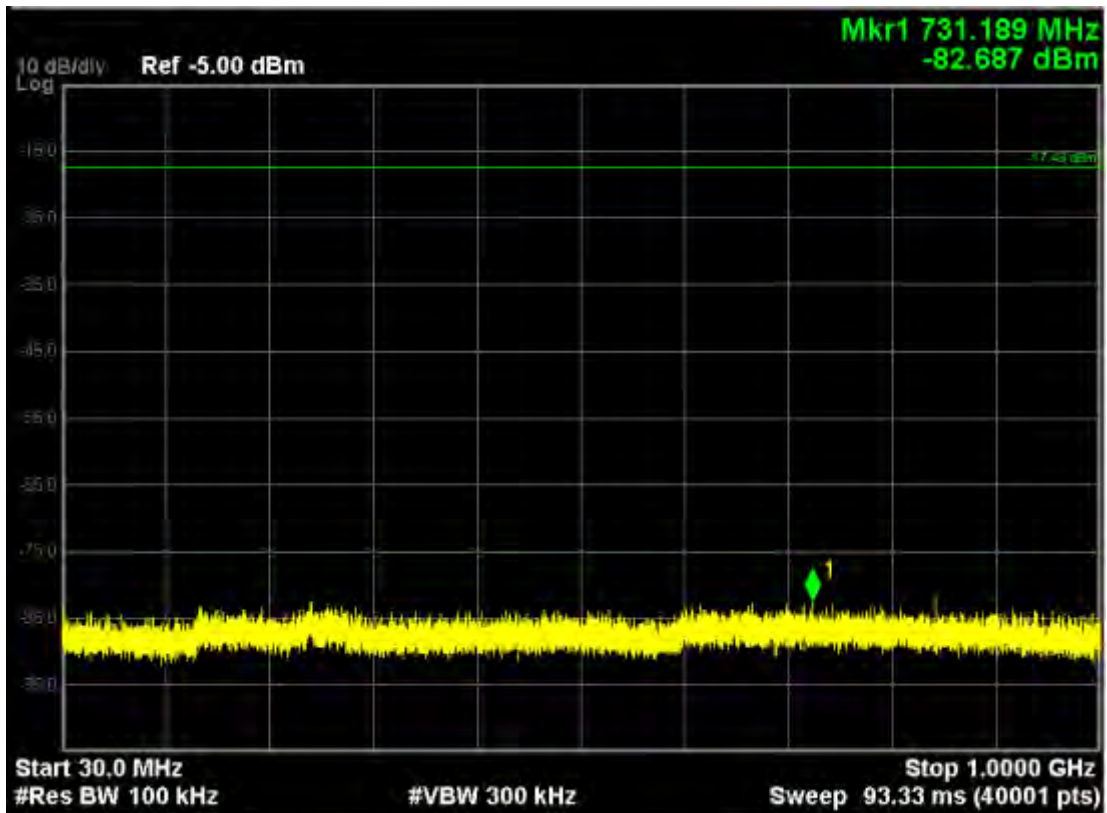
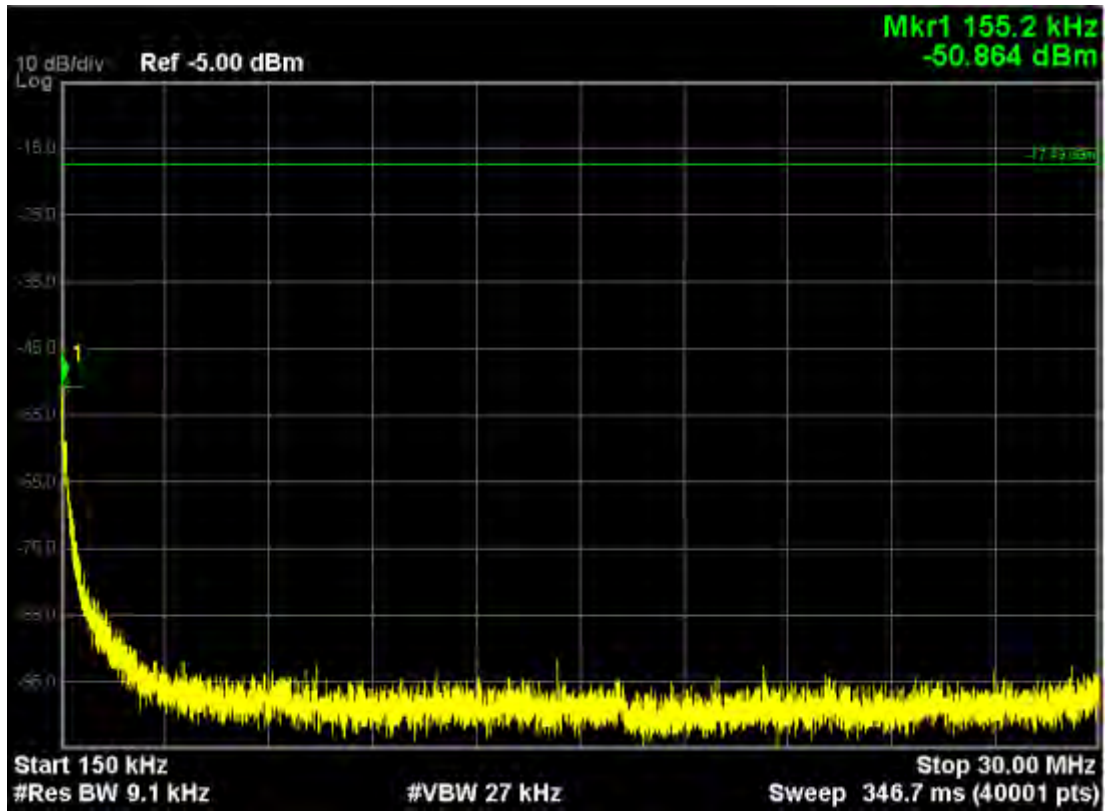


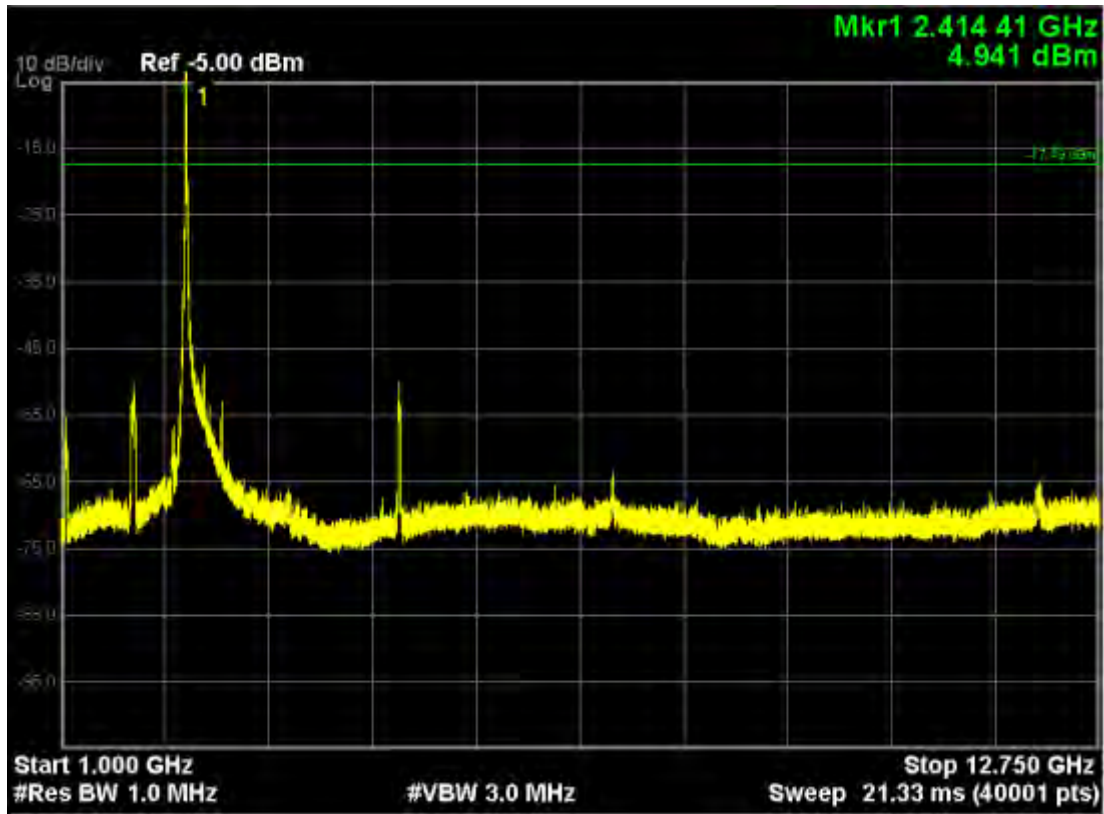
Note: The Mark1 point is carrier.



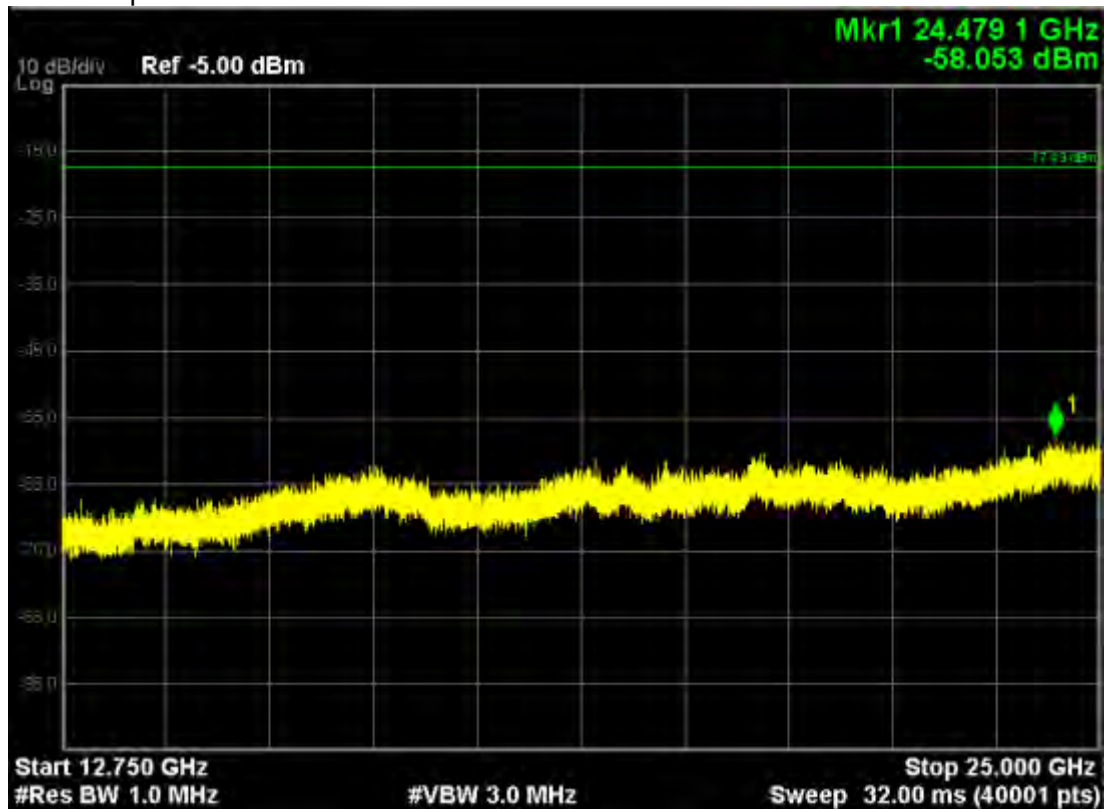
802.11n20, traffic mode; Channel 1(mimo)



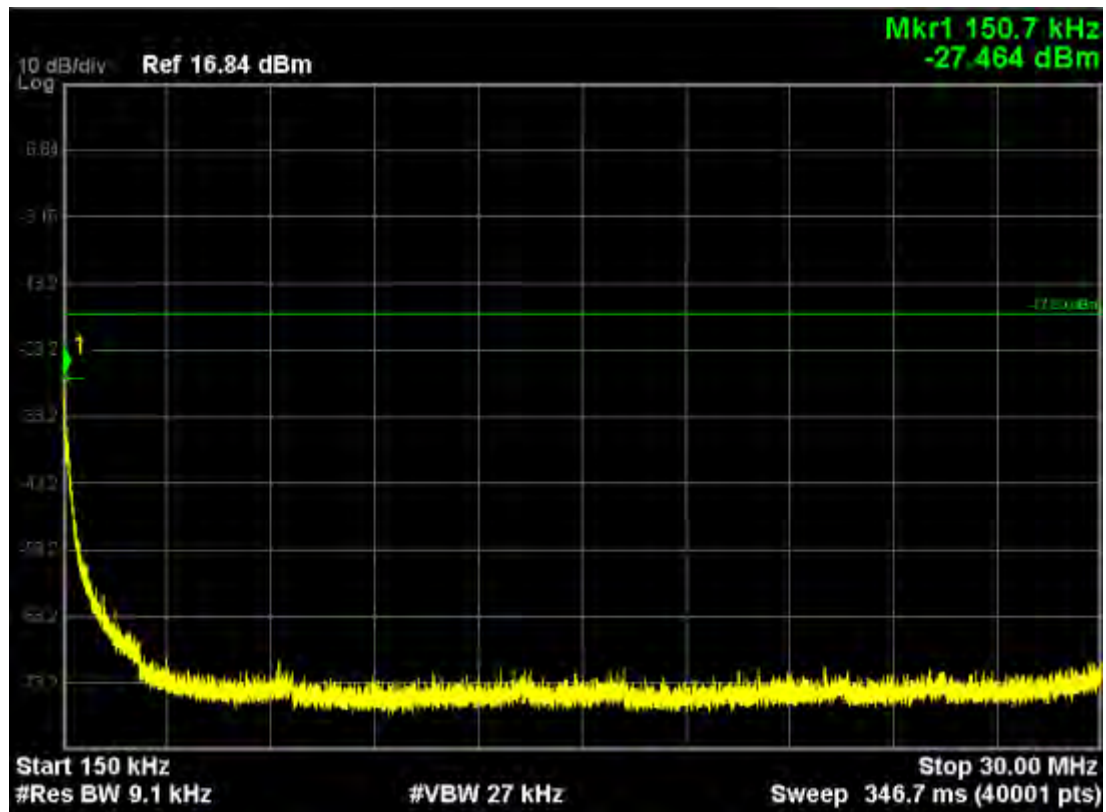
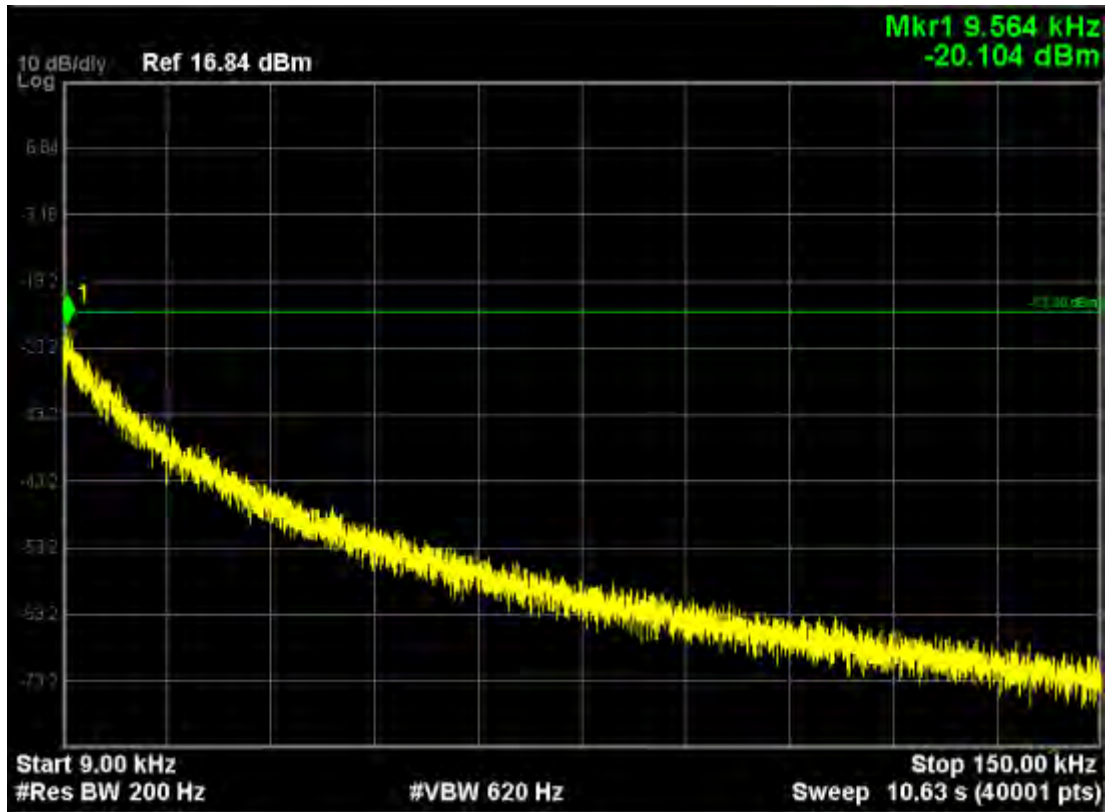


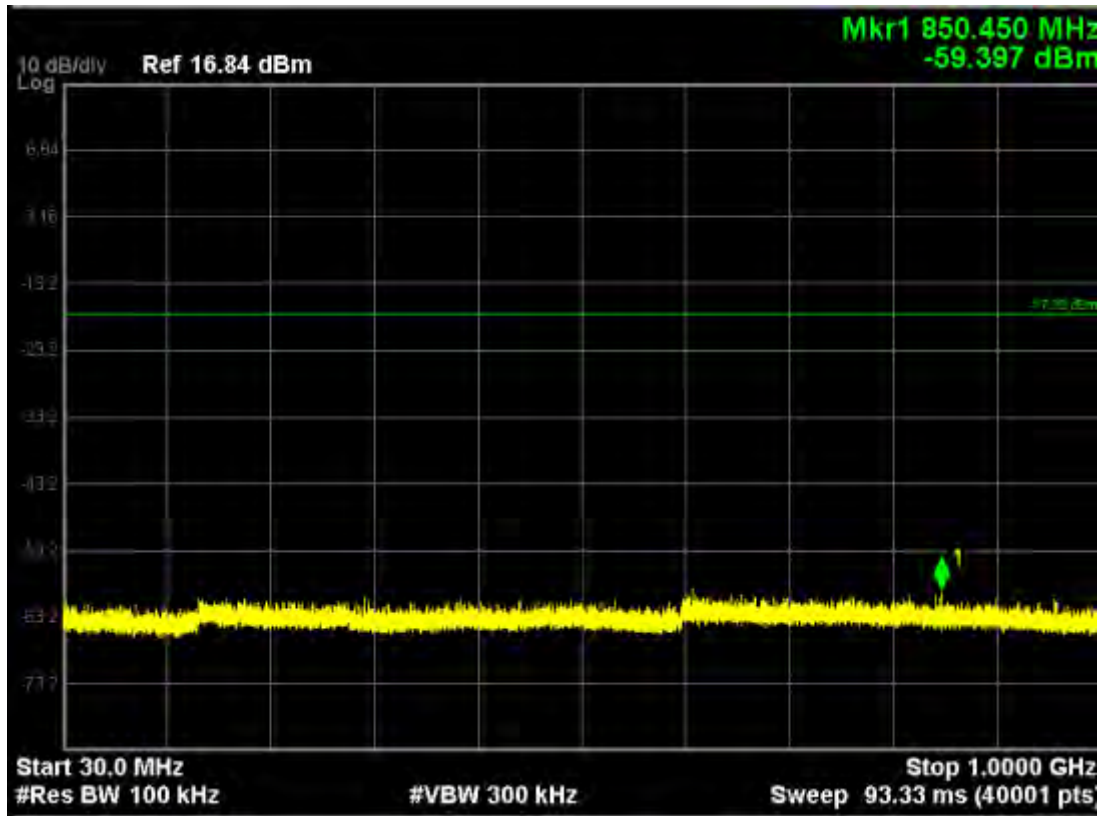


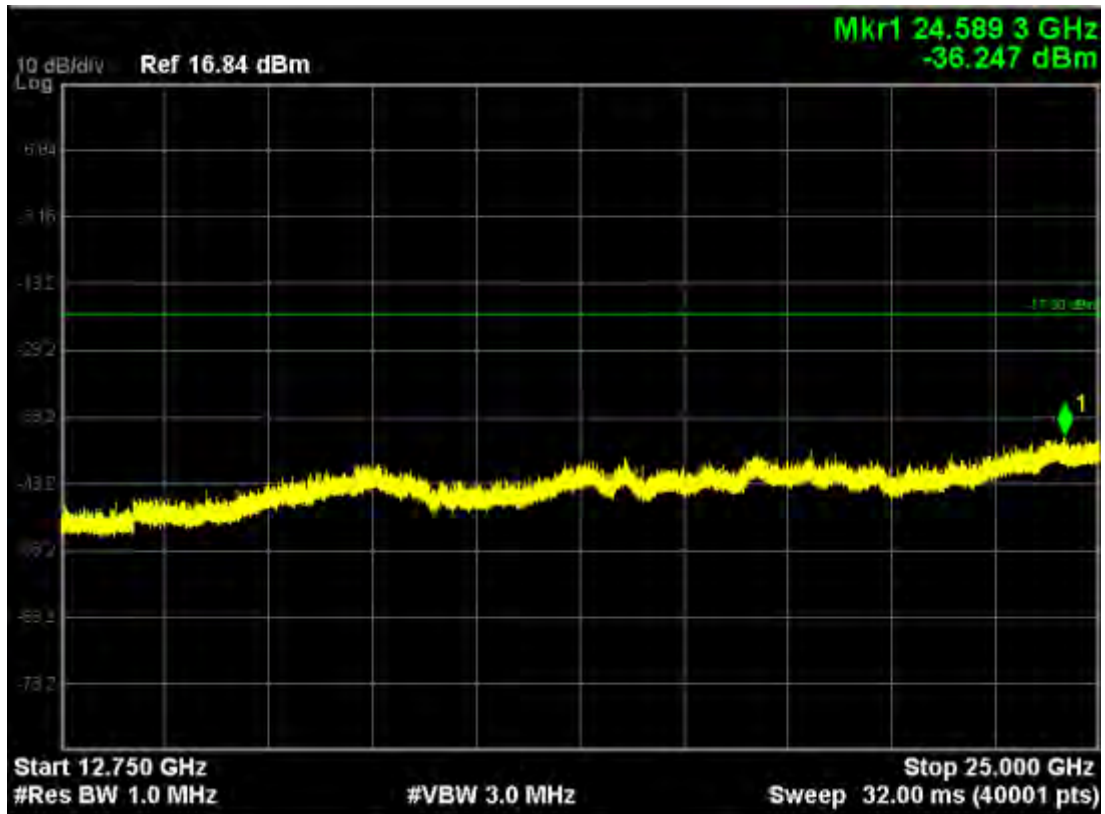
Note: The Mark1 point is carrier.



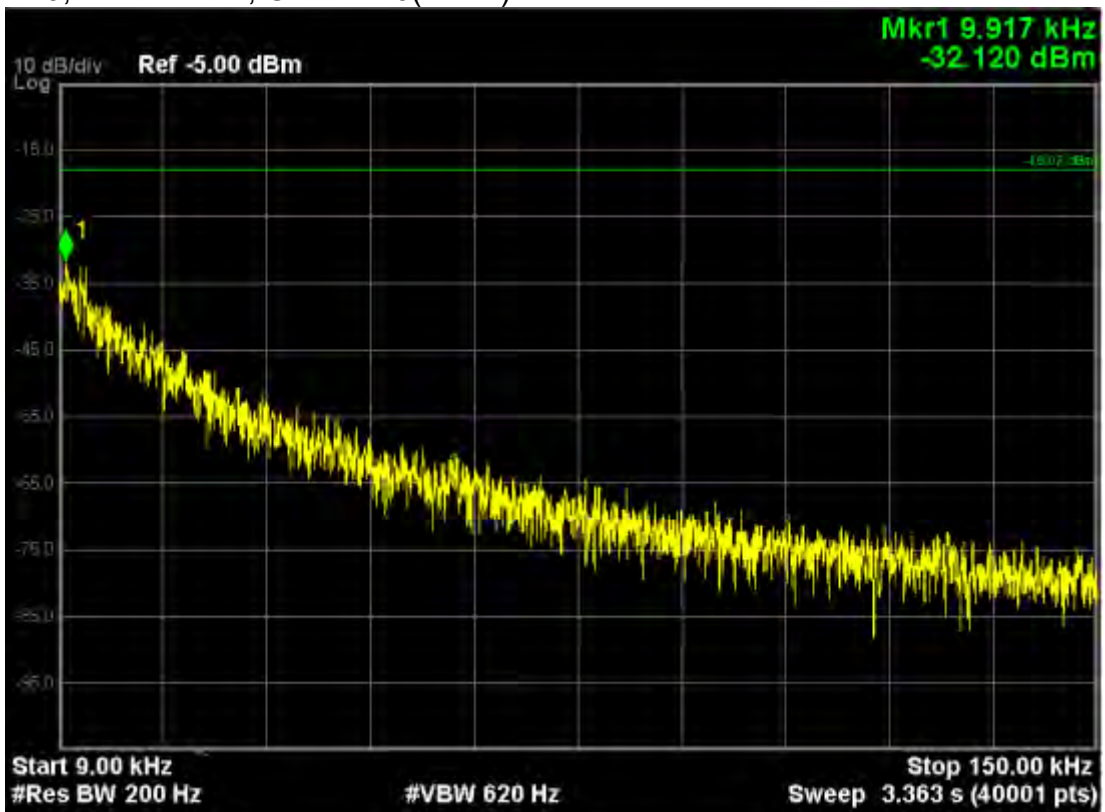
802.11n20, traffic mode; Channel 6

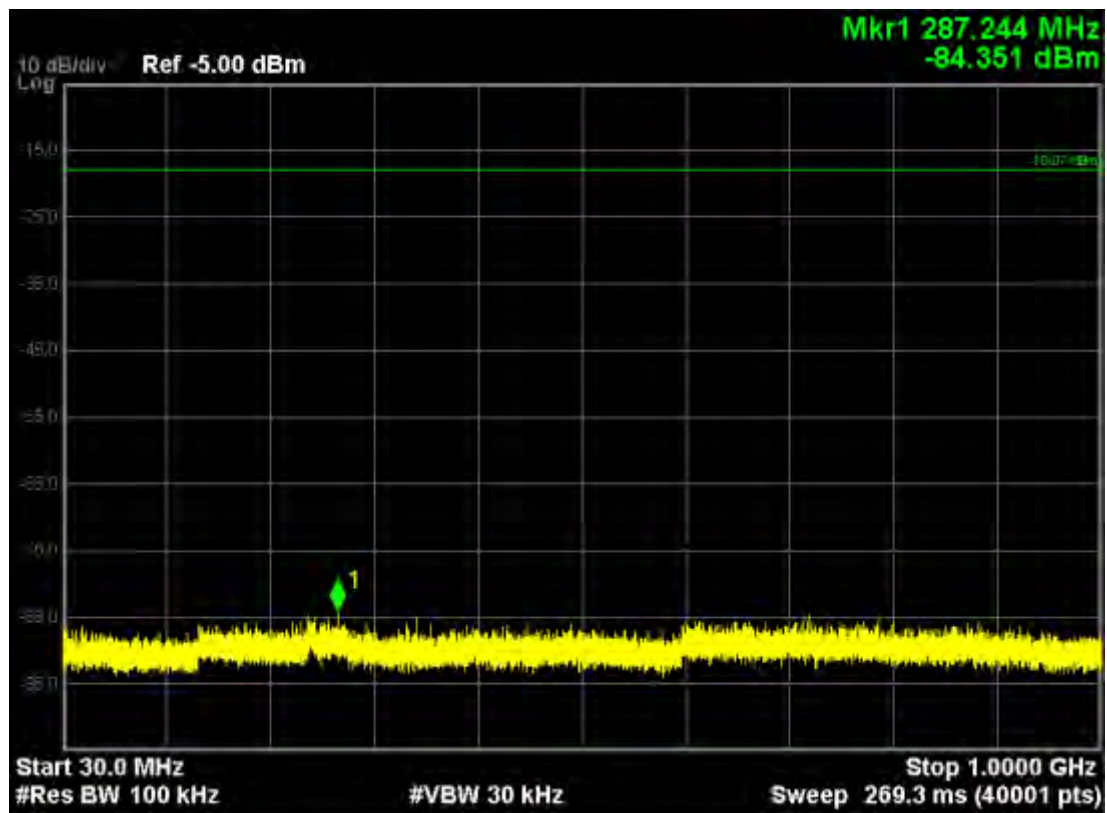
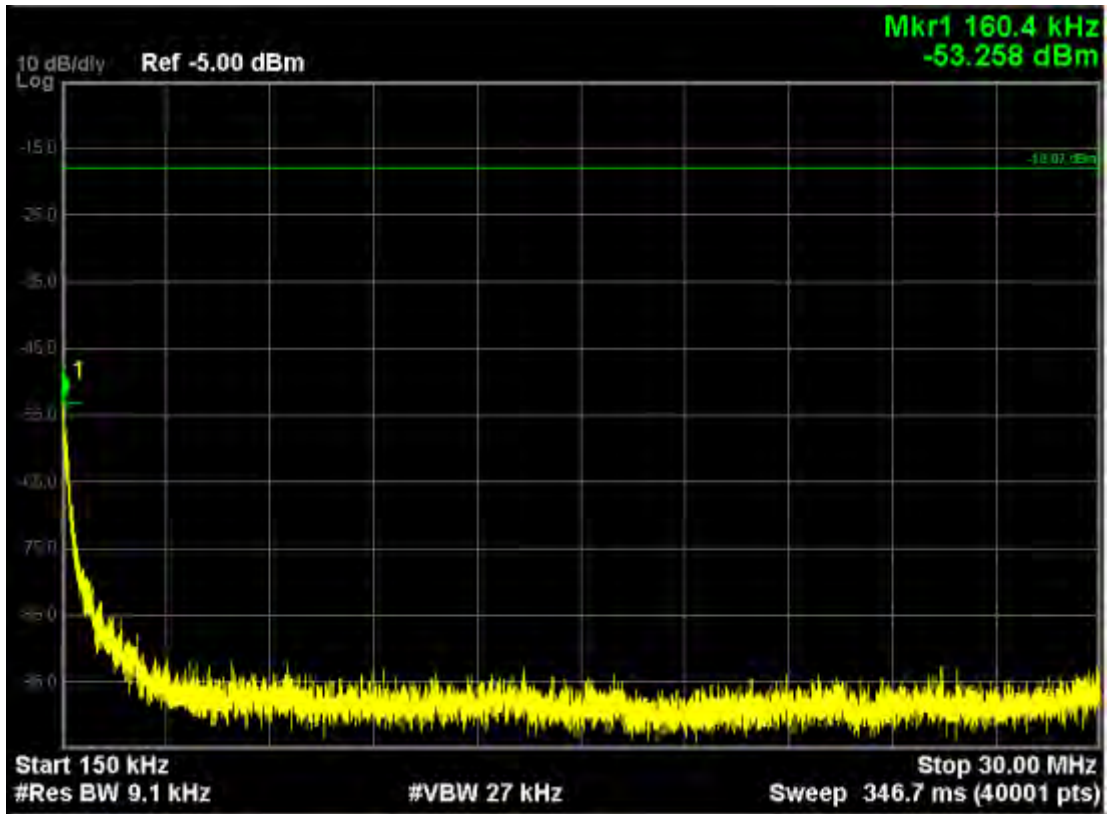


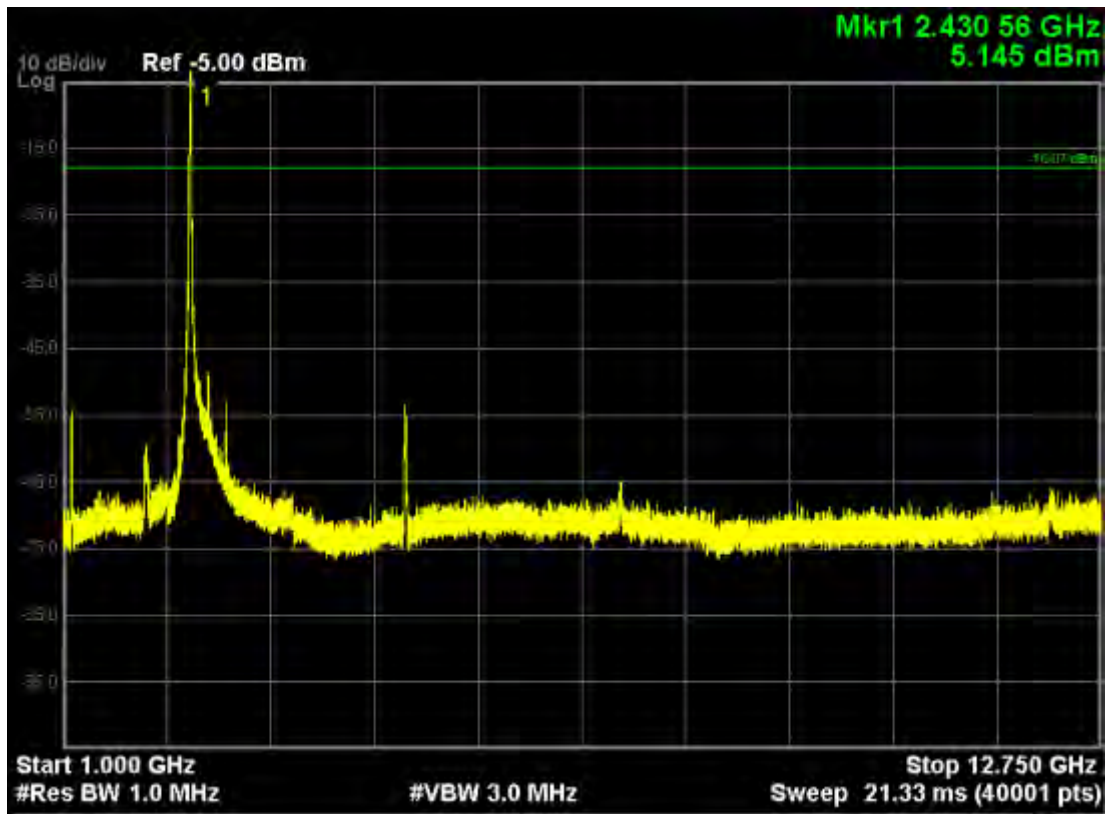




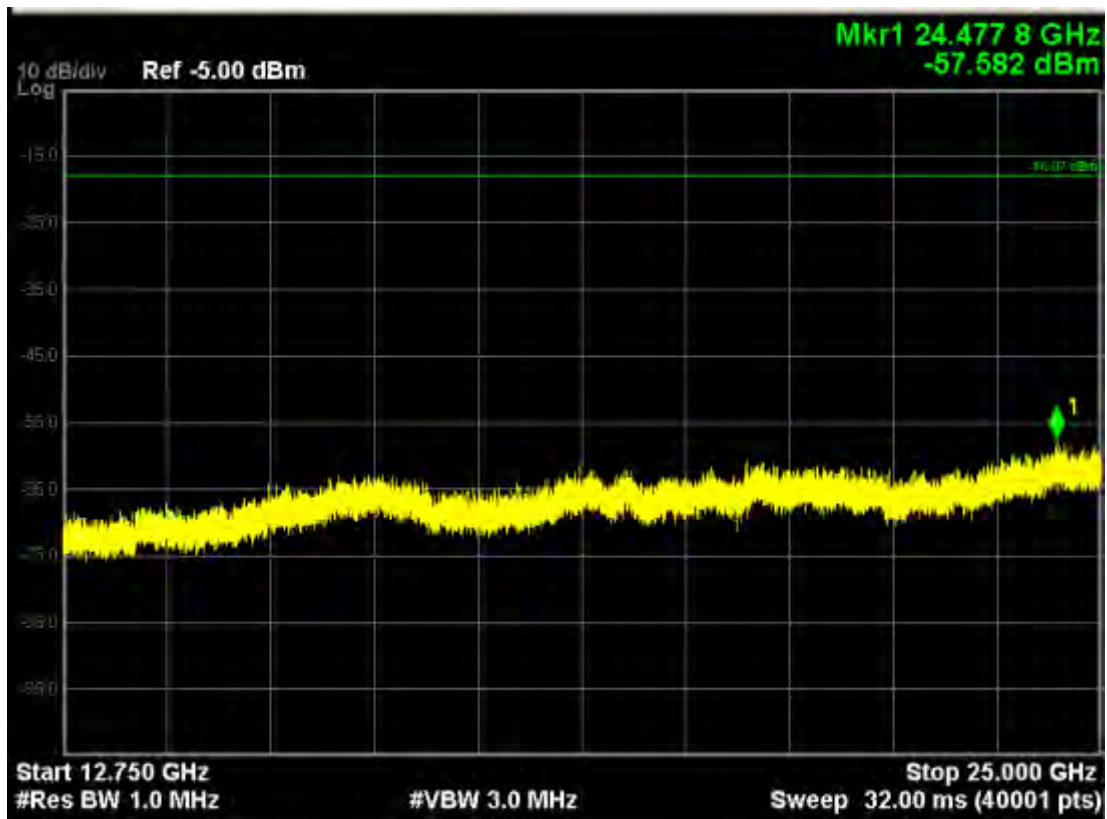
802.11n20, traffic mode; Channel 6(mimo)



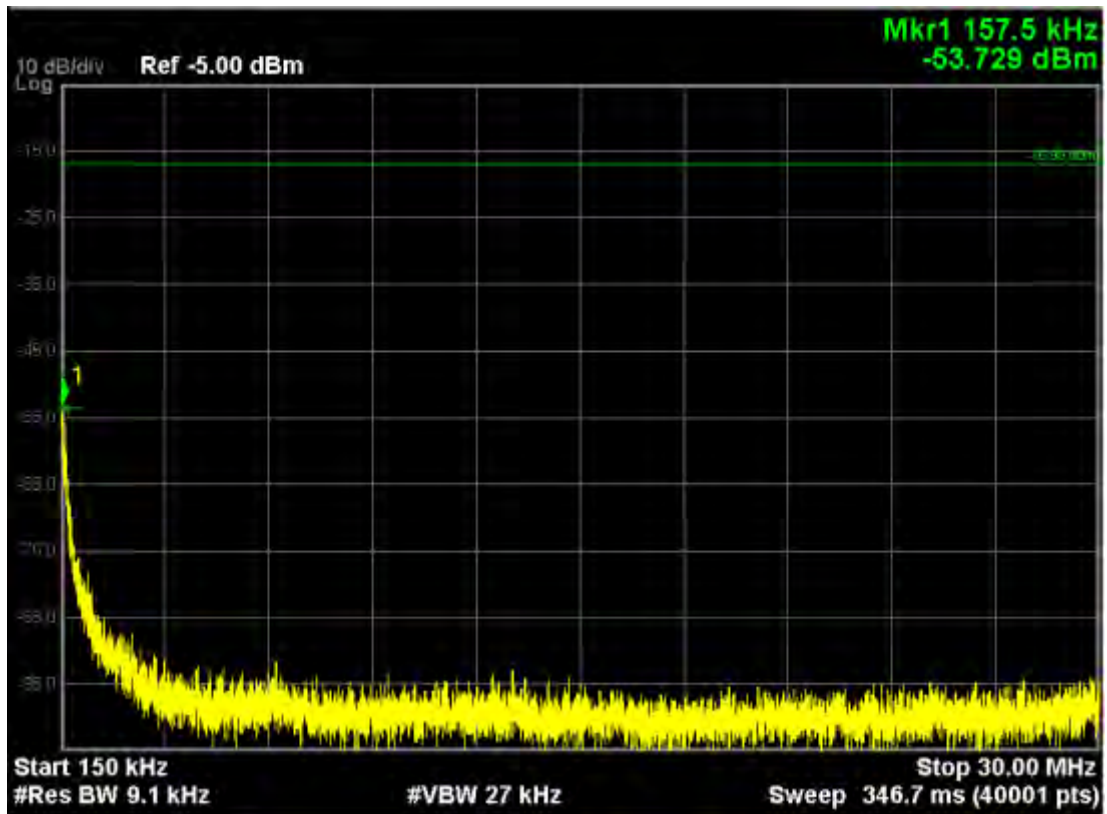
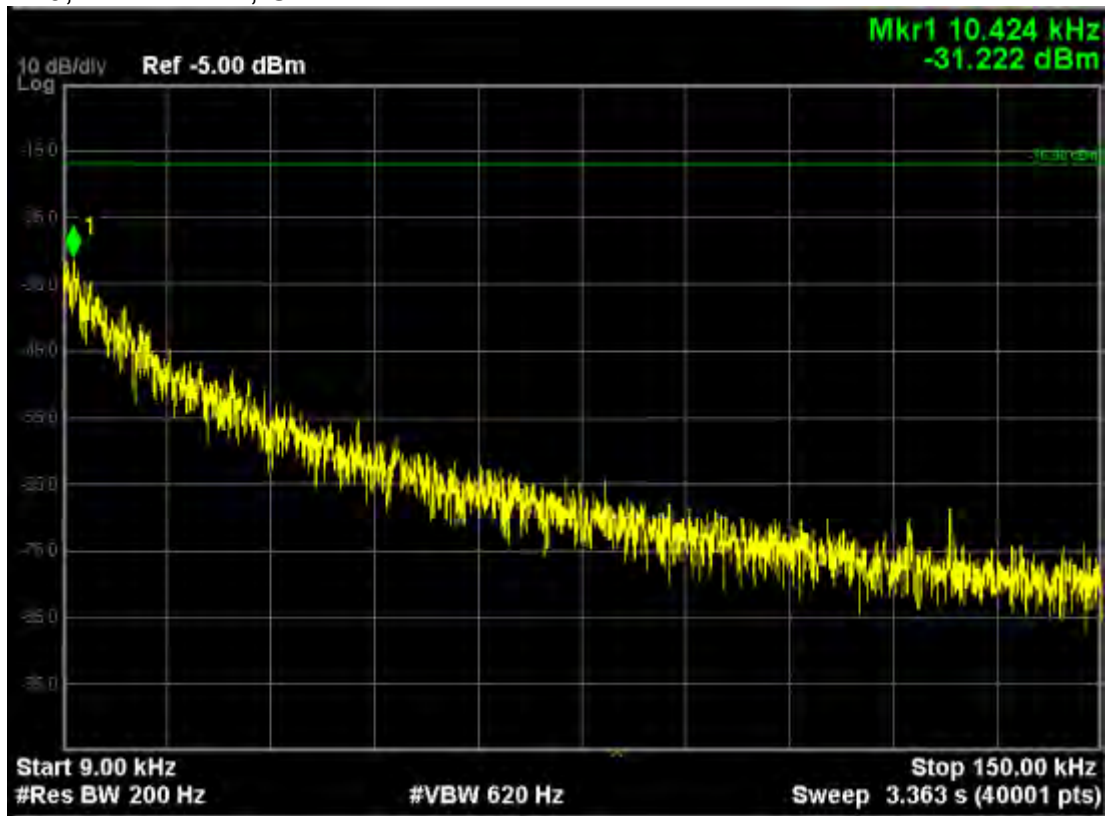


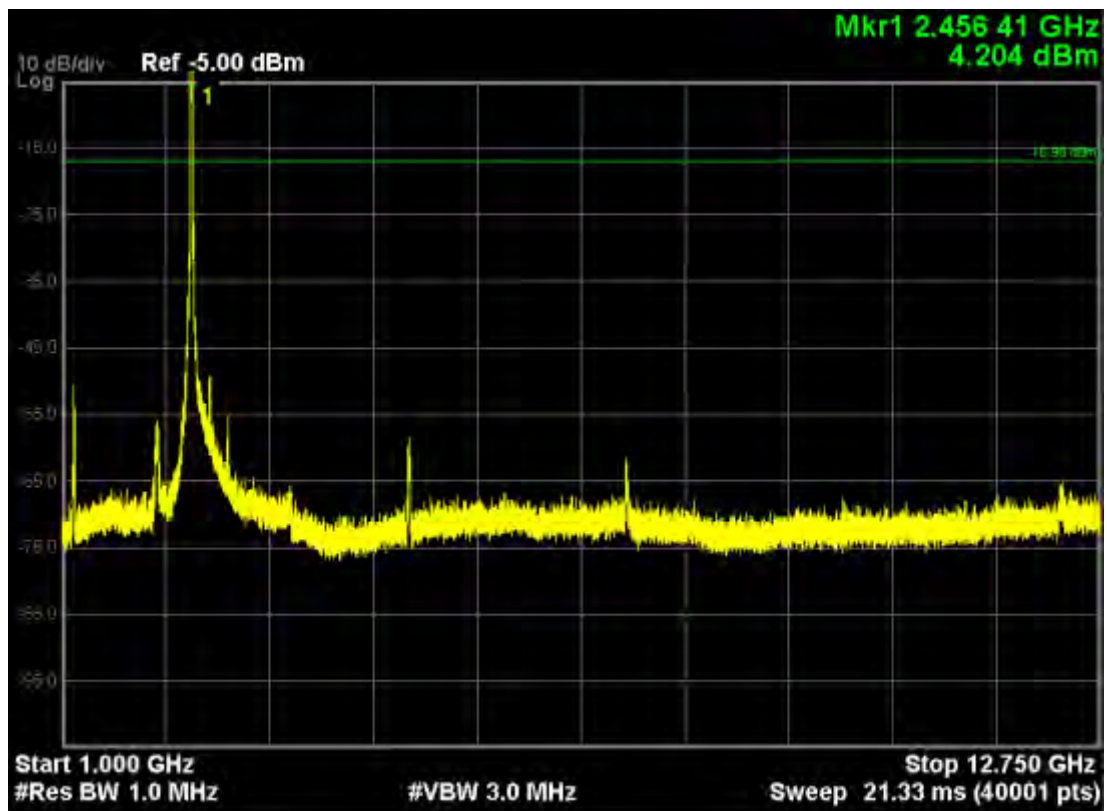
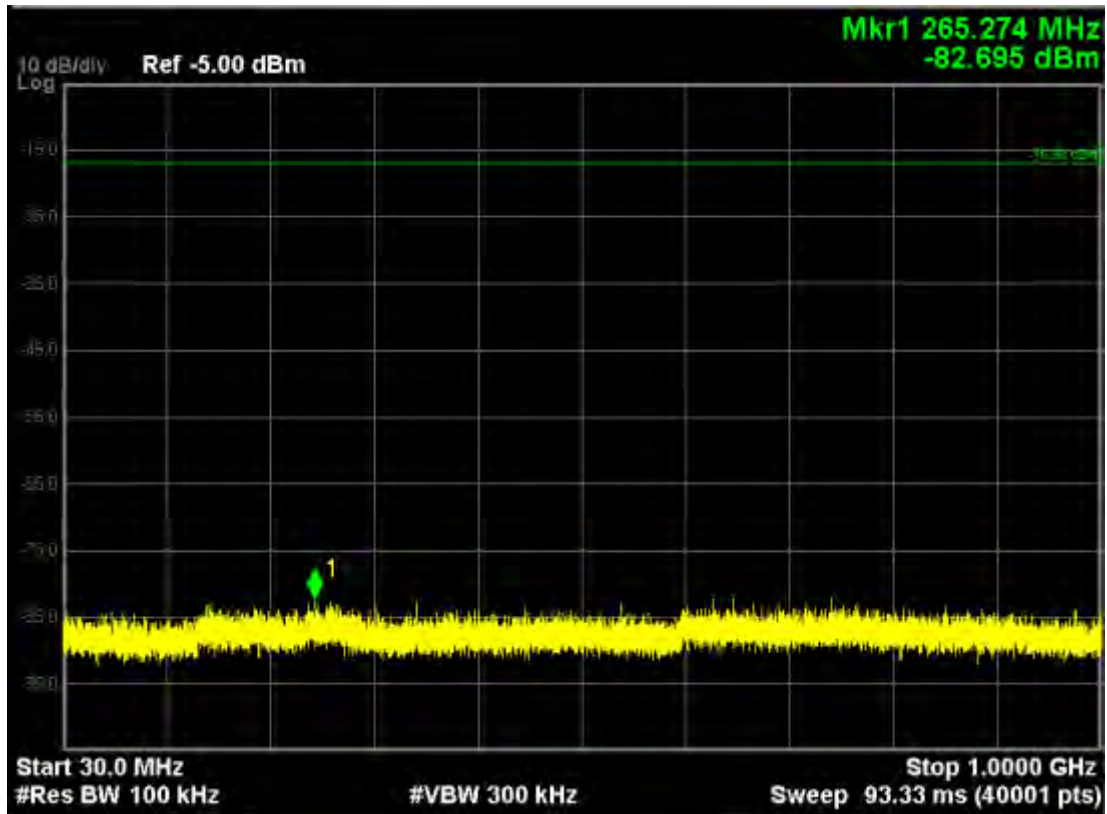


Note: The Mark1 point is carrier.

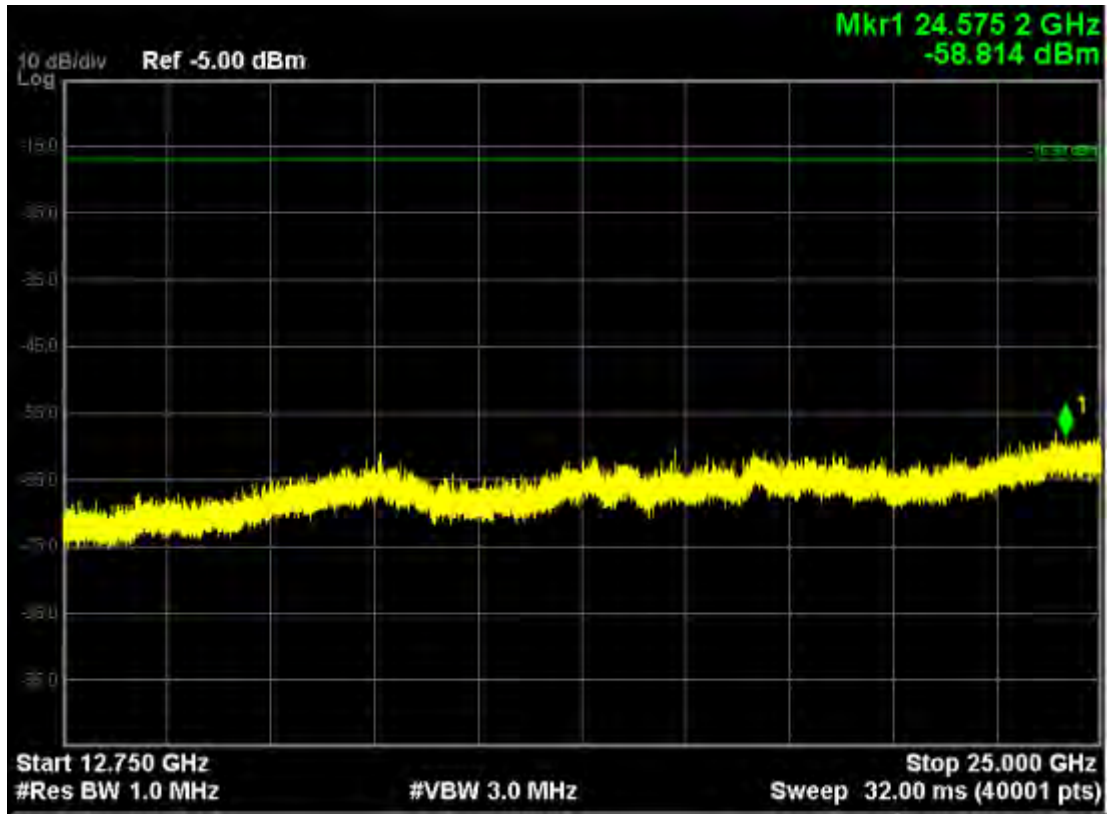


802.11n20, traffic mode; Channel 11

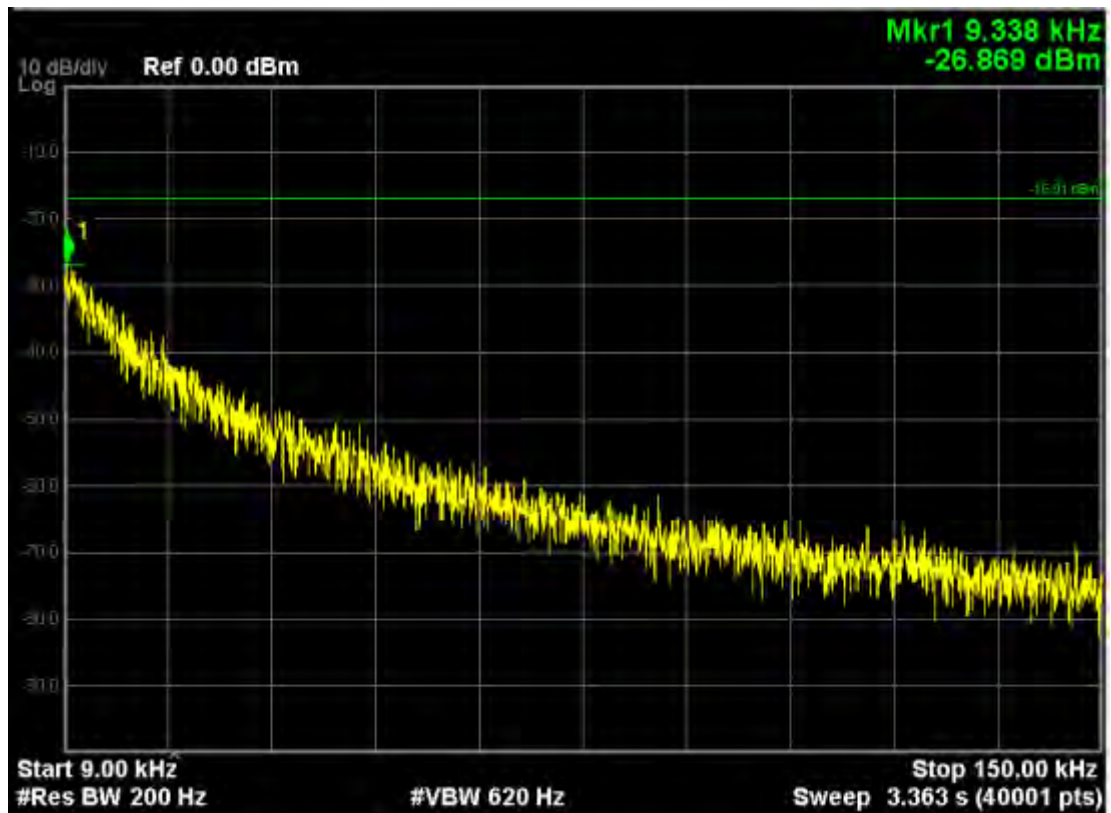


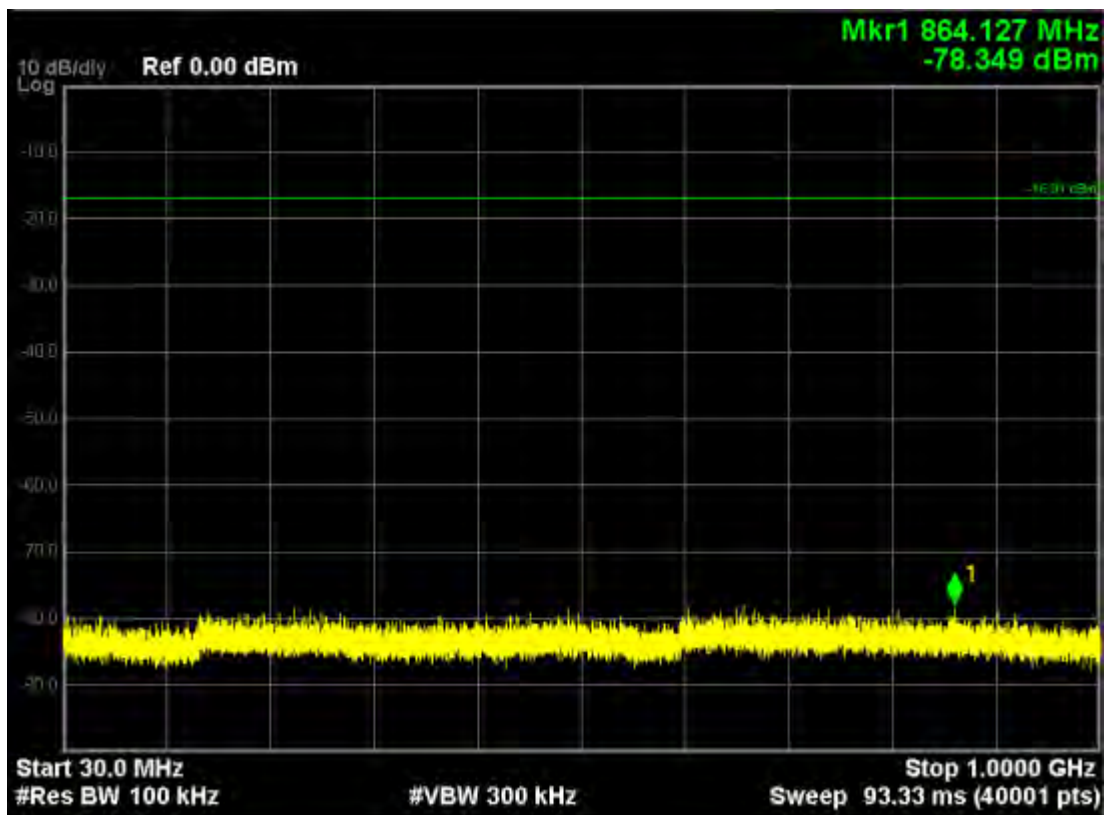
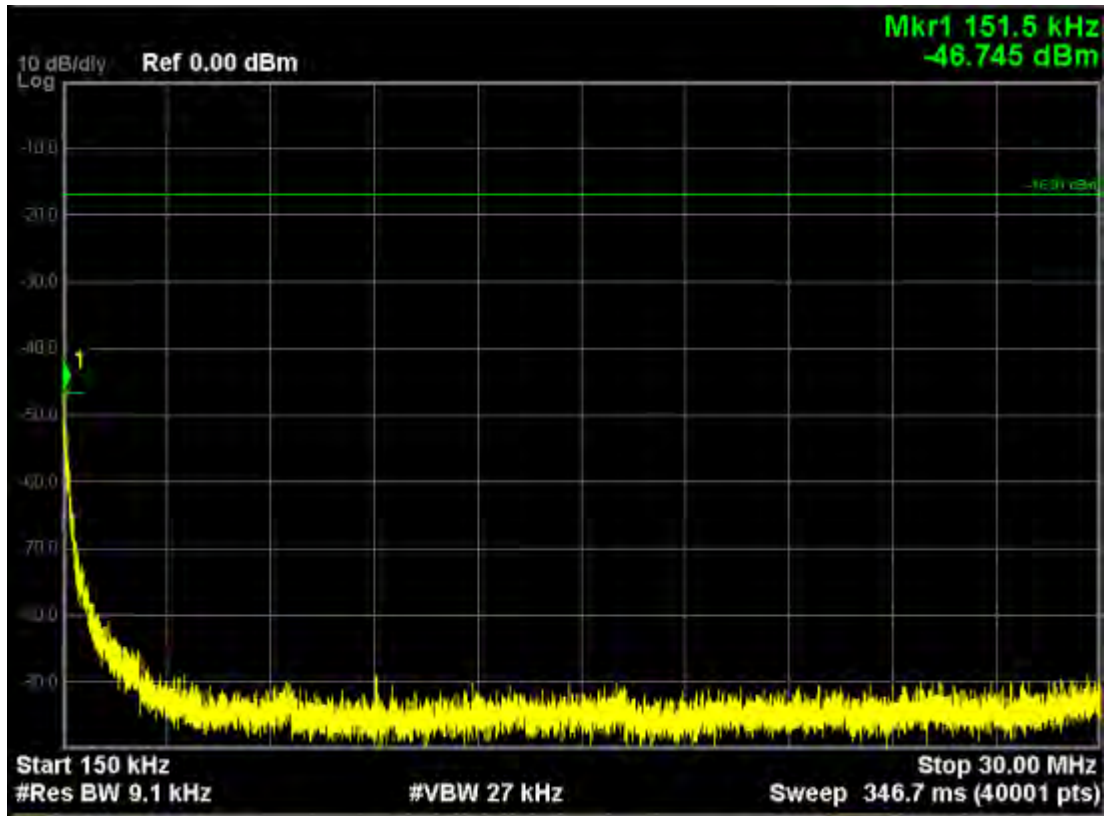


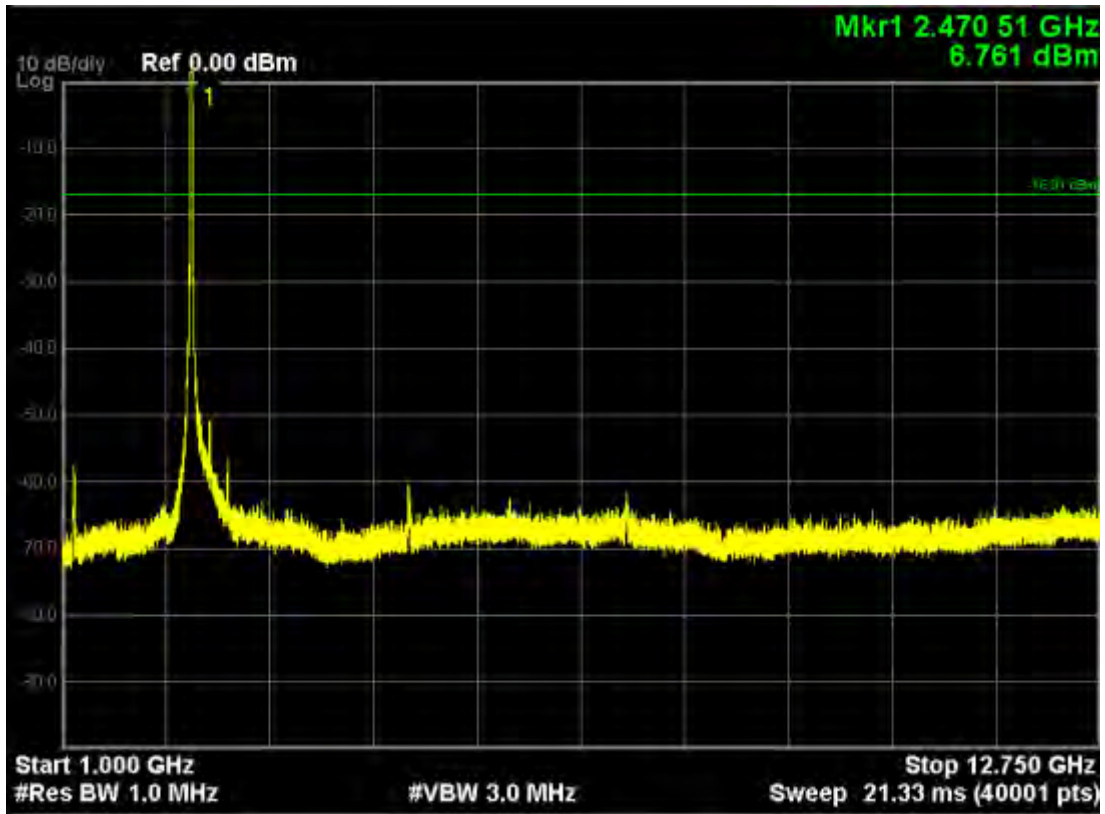
Note: The Mark1 point is carrier.



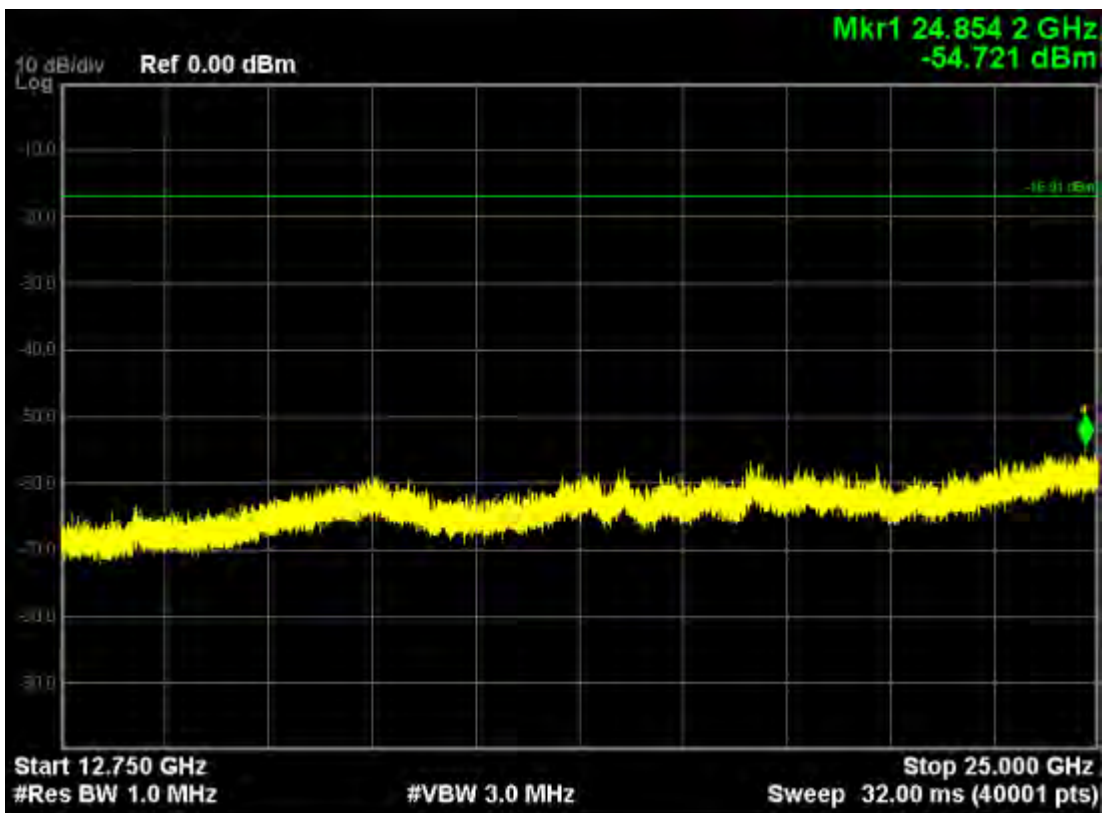
802.11n20, traffic mode; Channel 11(mimo)



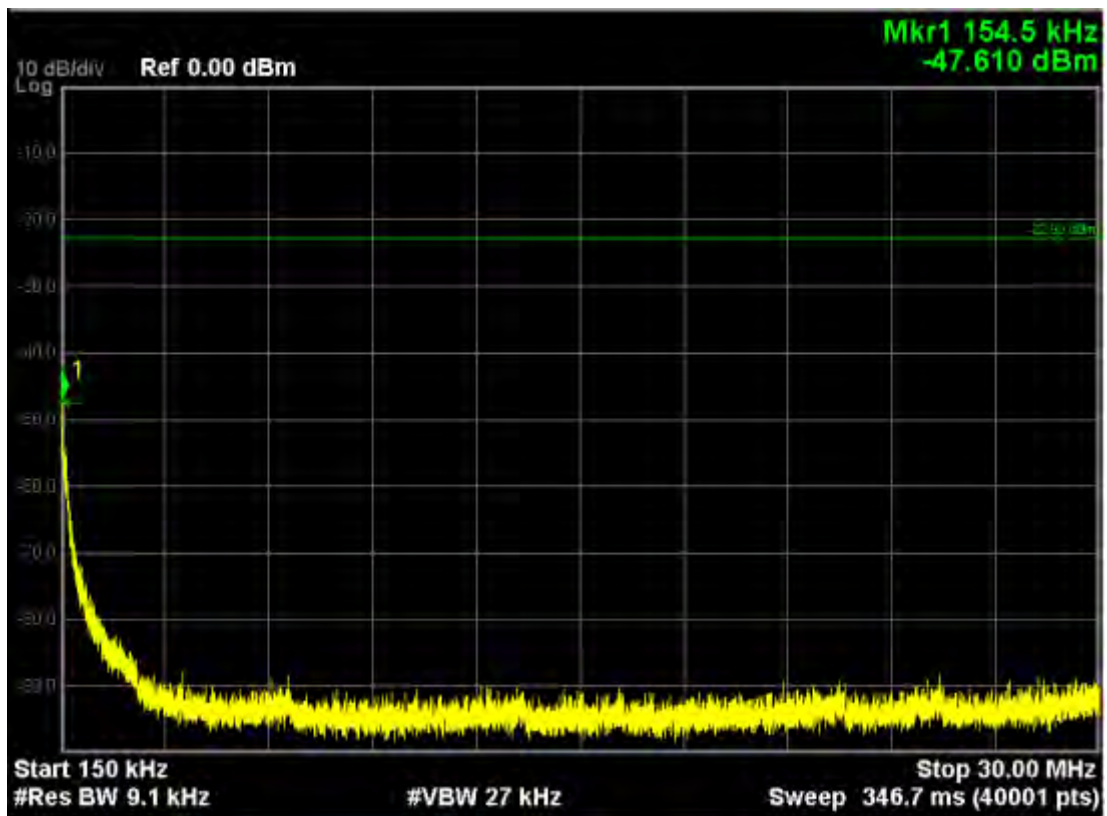
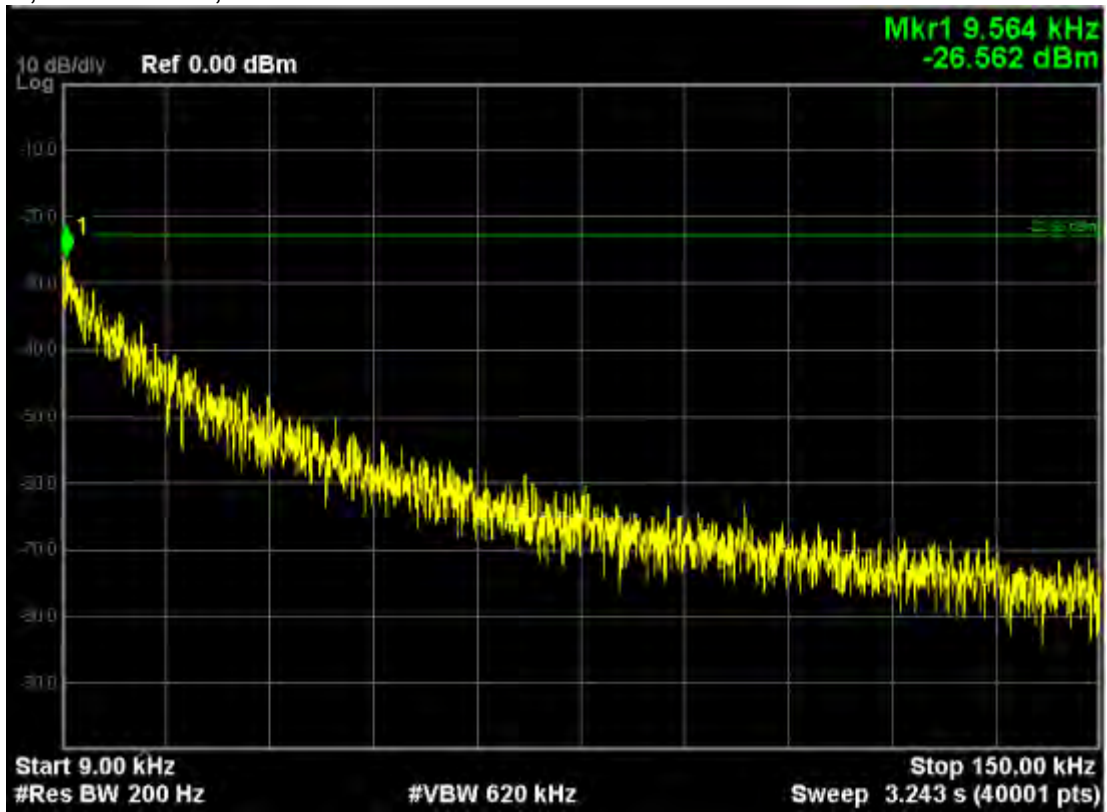


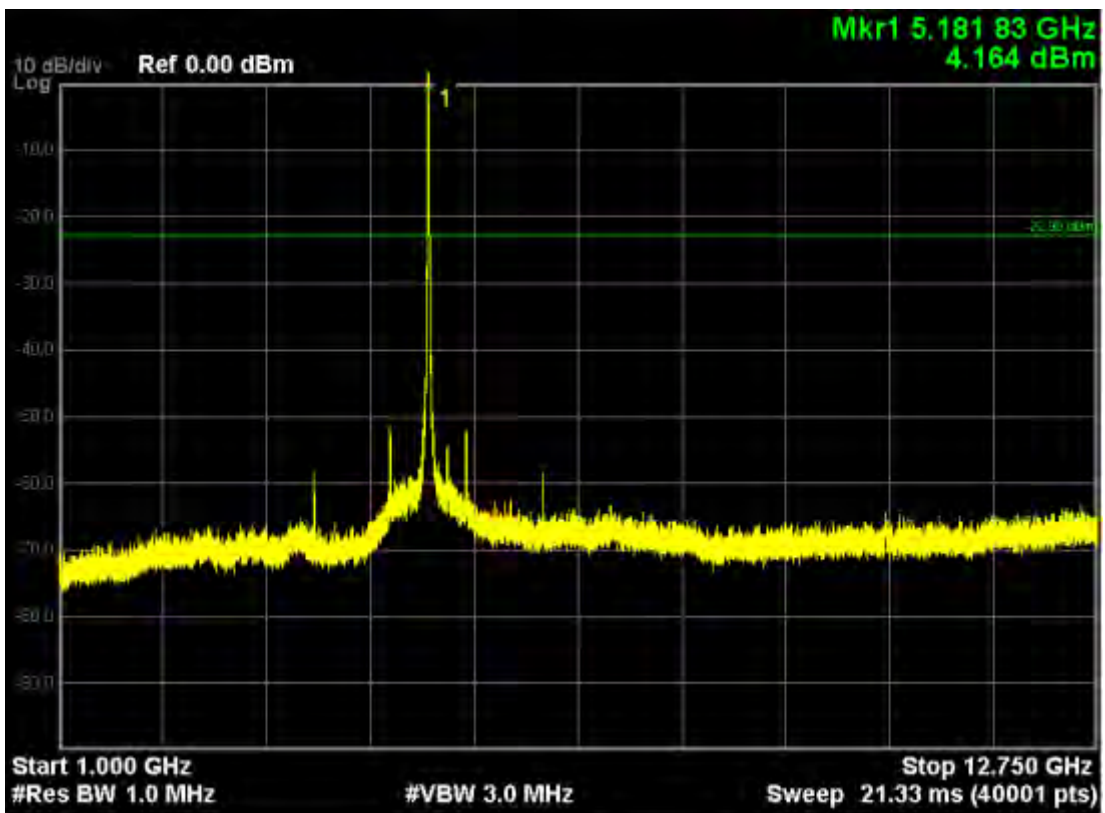
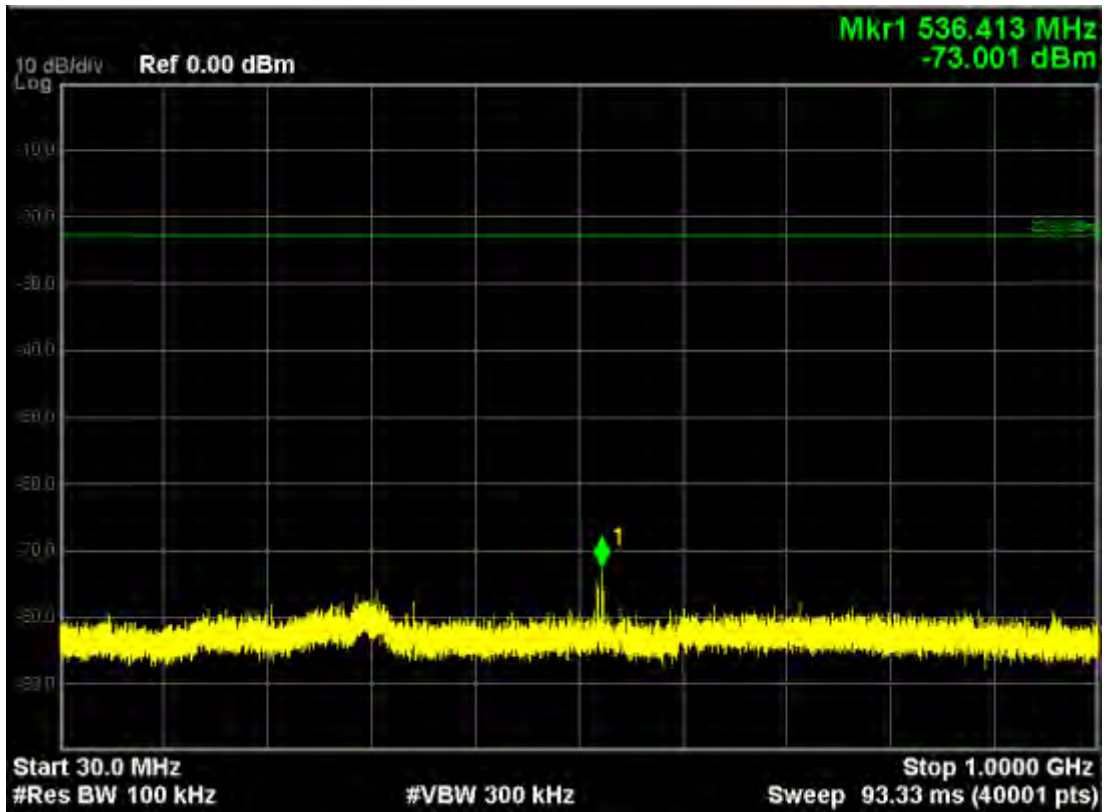


Note: The Mark1 point is carrier.

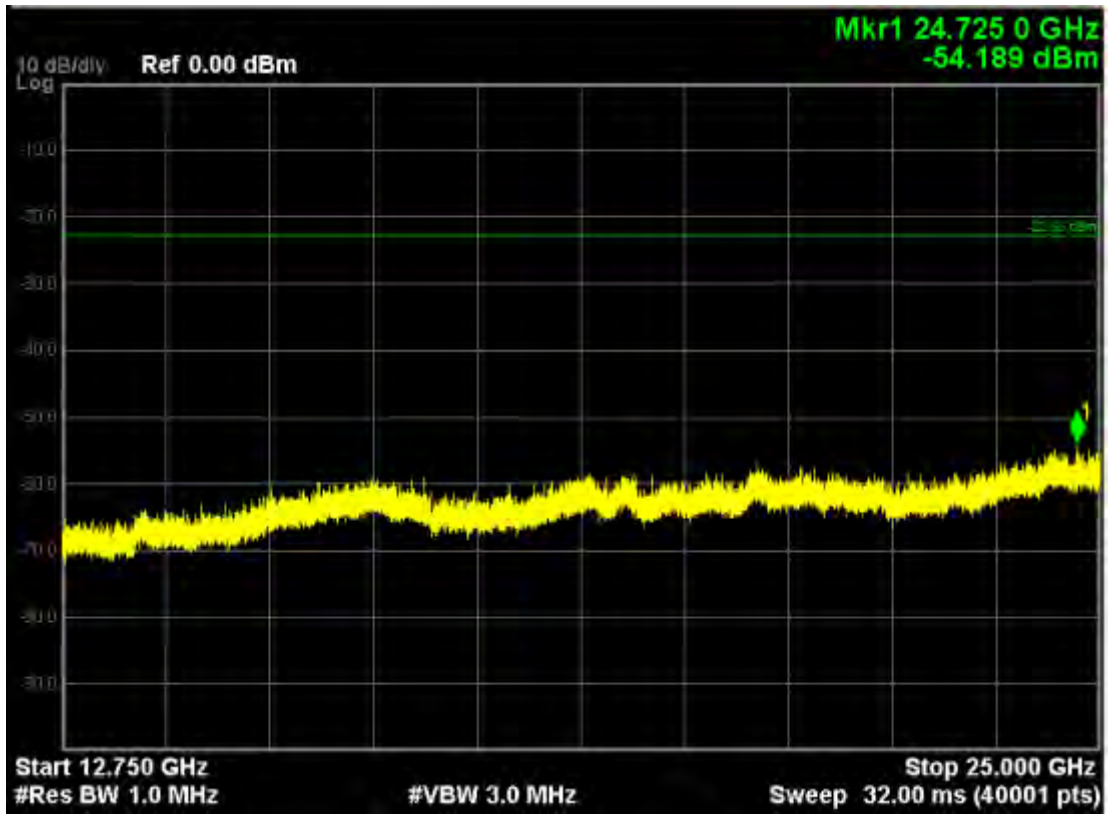


WIFI 5G(5150MHz-5250MHz)
802.11a, traffic mode; Channel 36

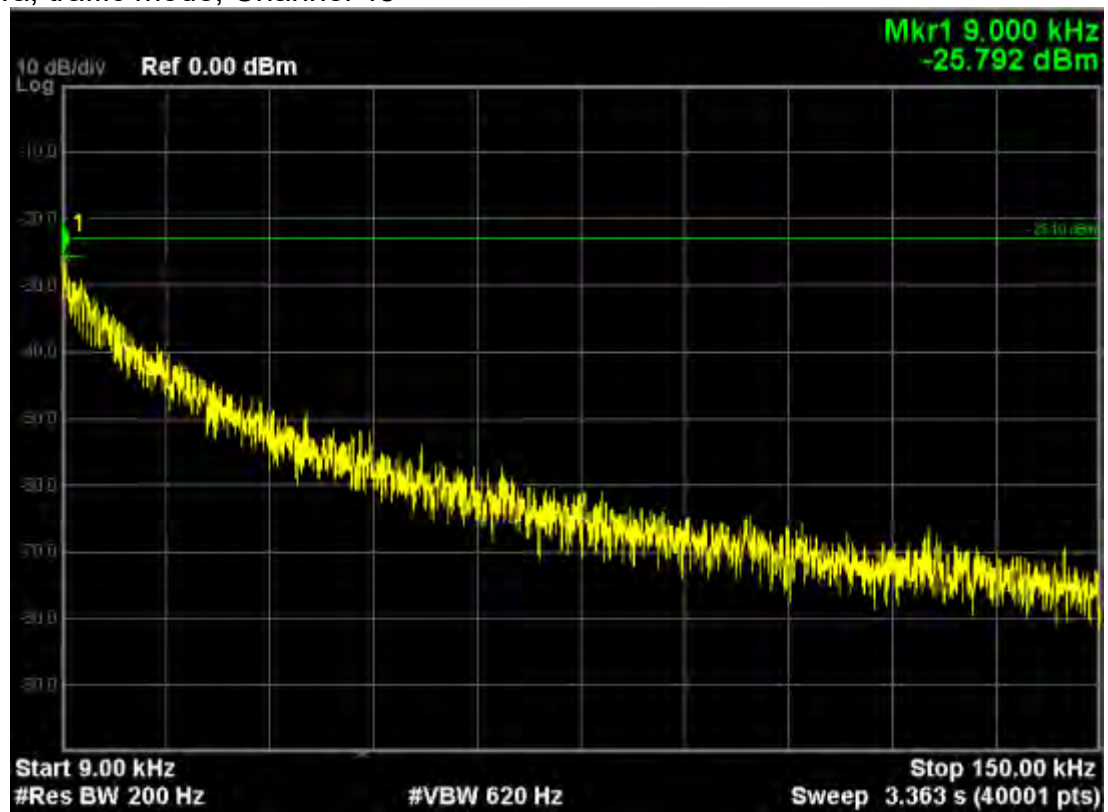


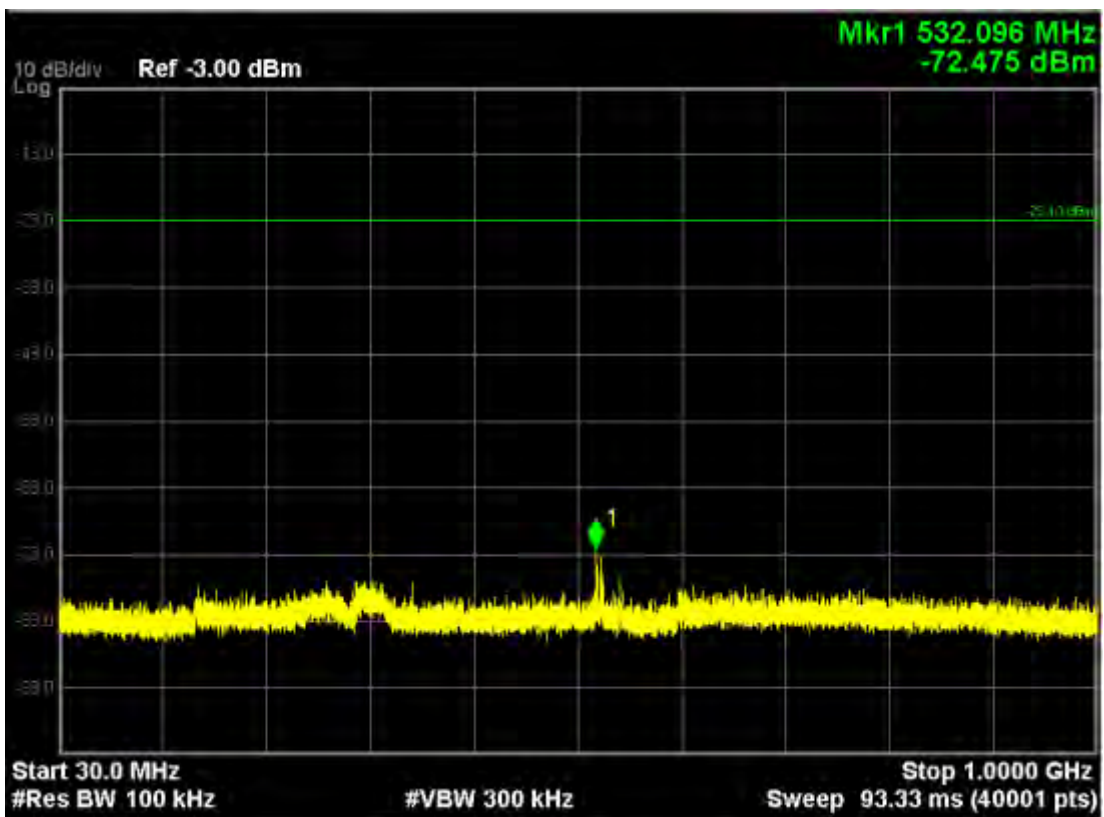
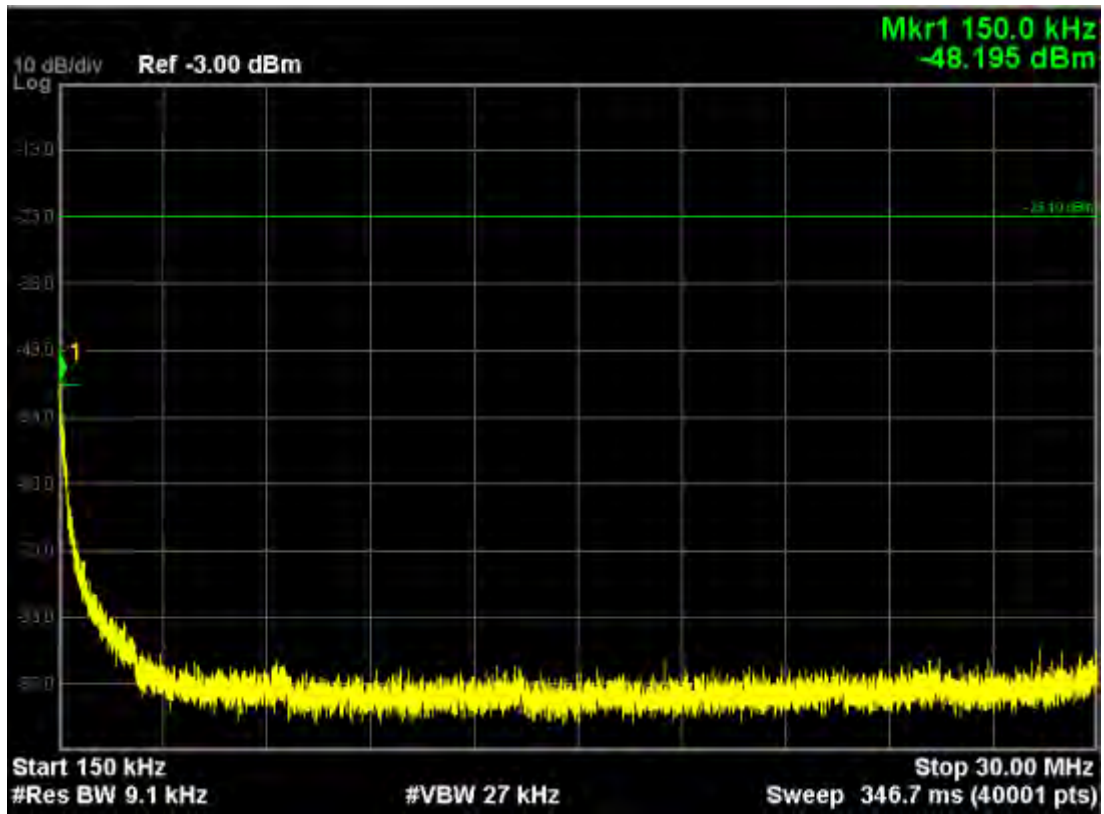


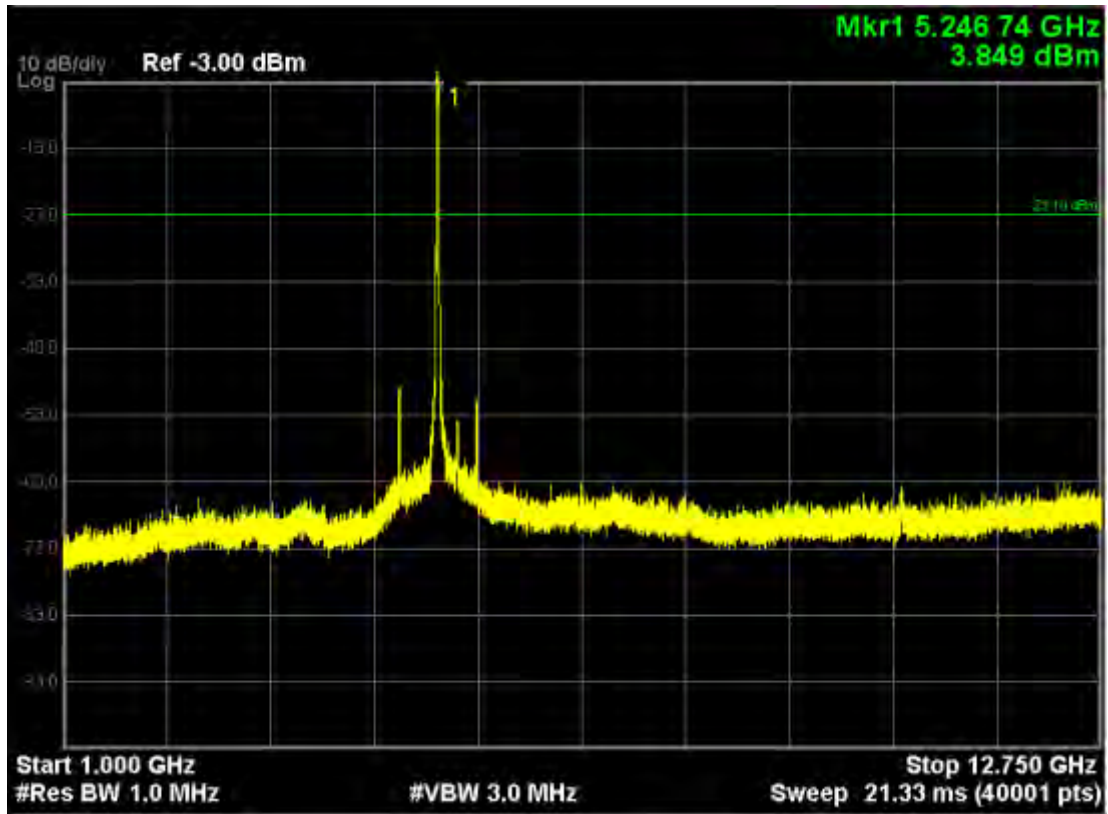
Note: The Mark1 point is carrier.



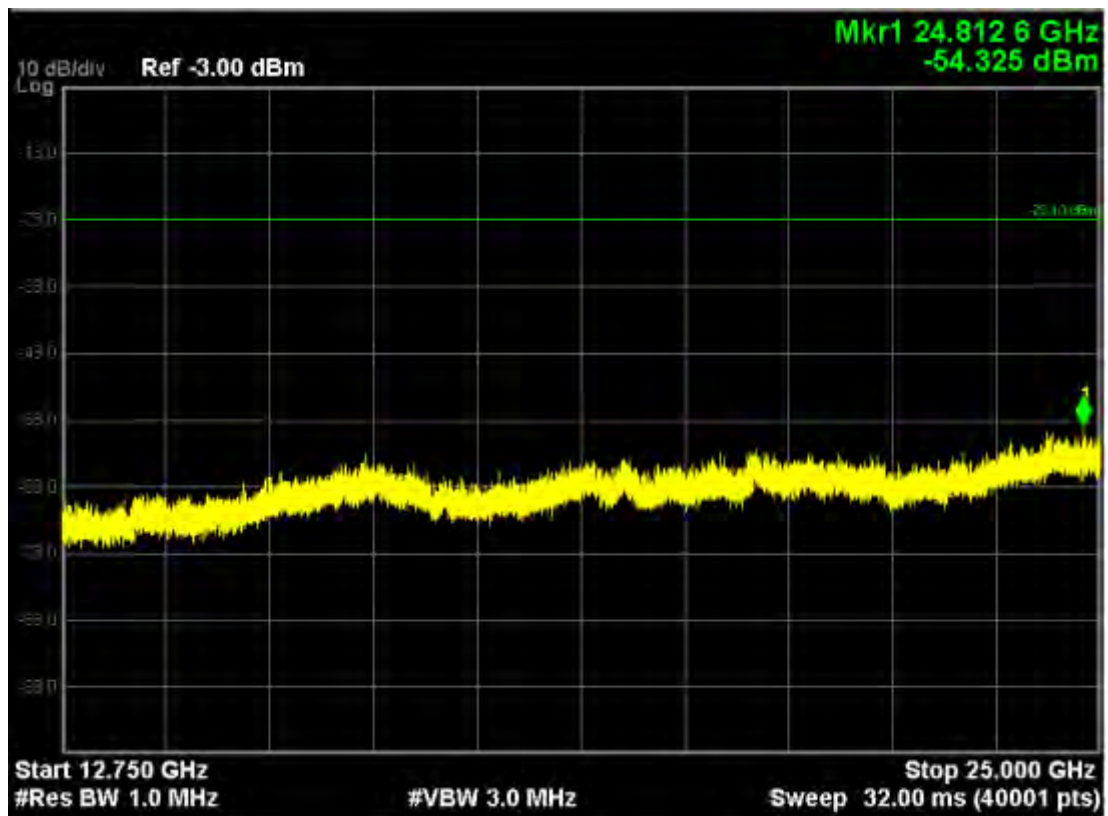
802.11a, traffic mode; Channel 48



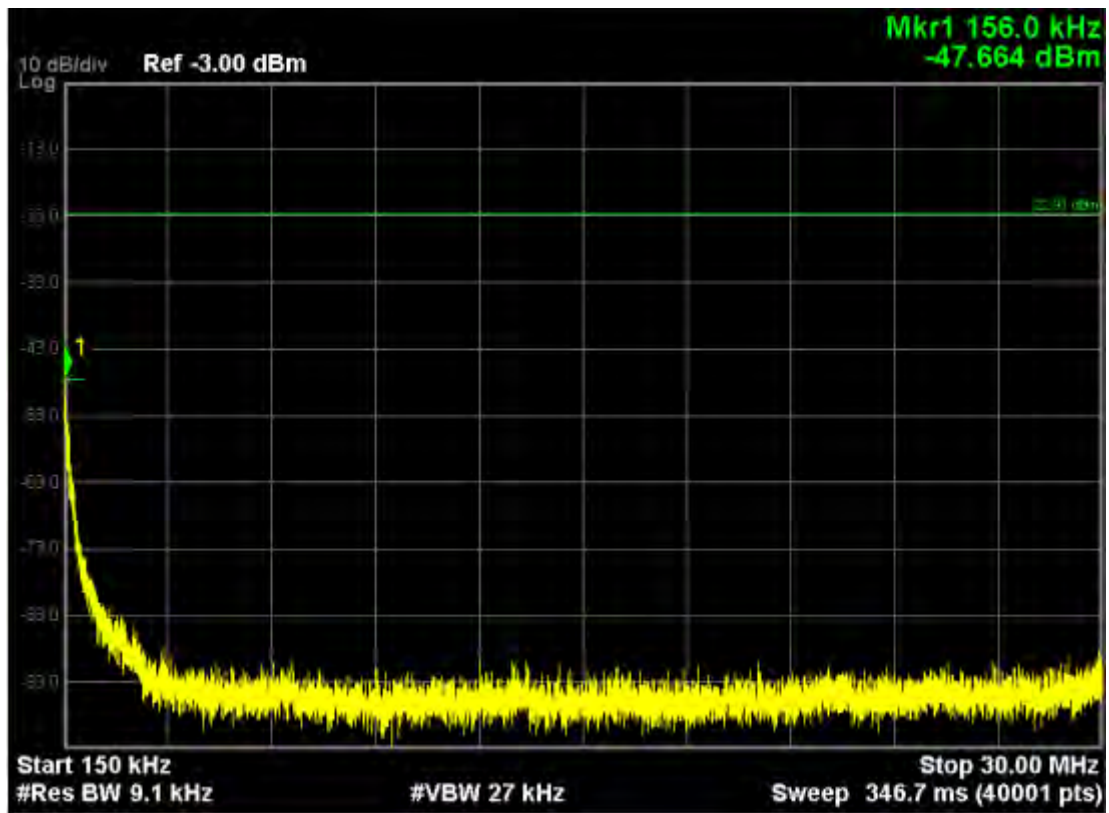
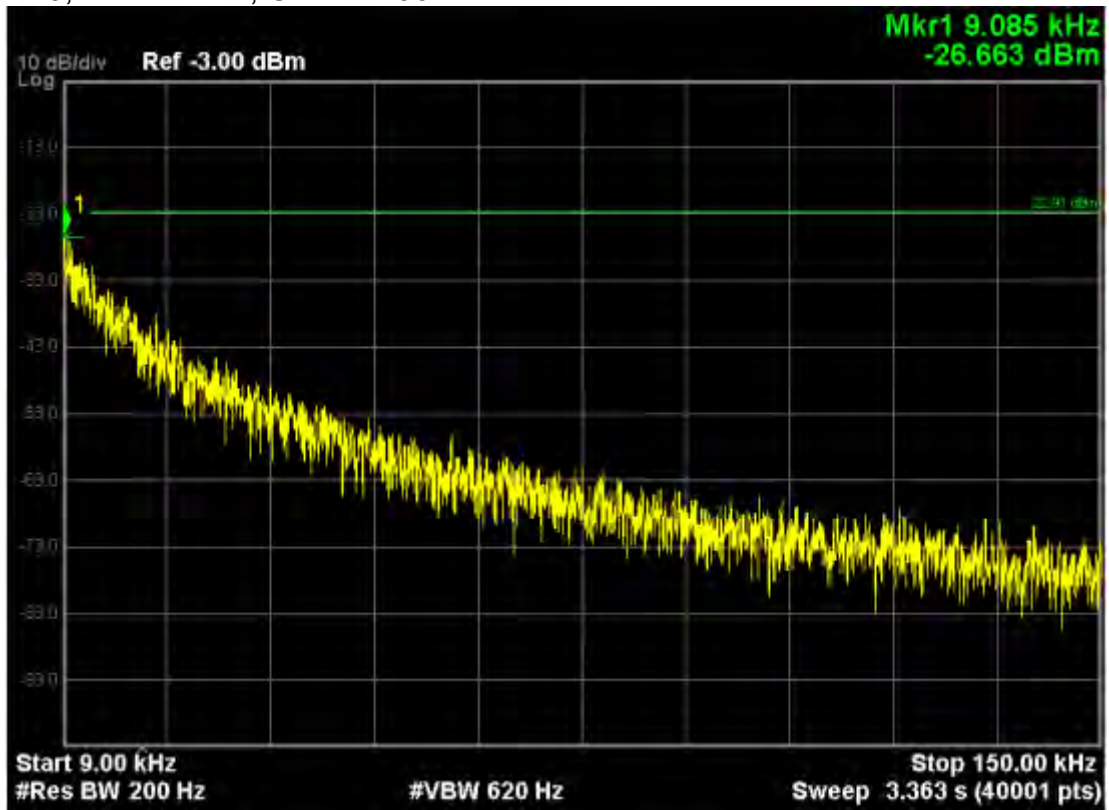


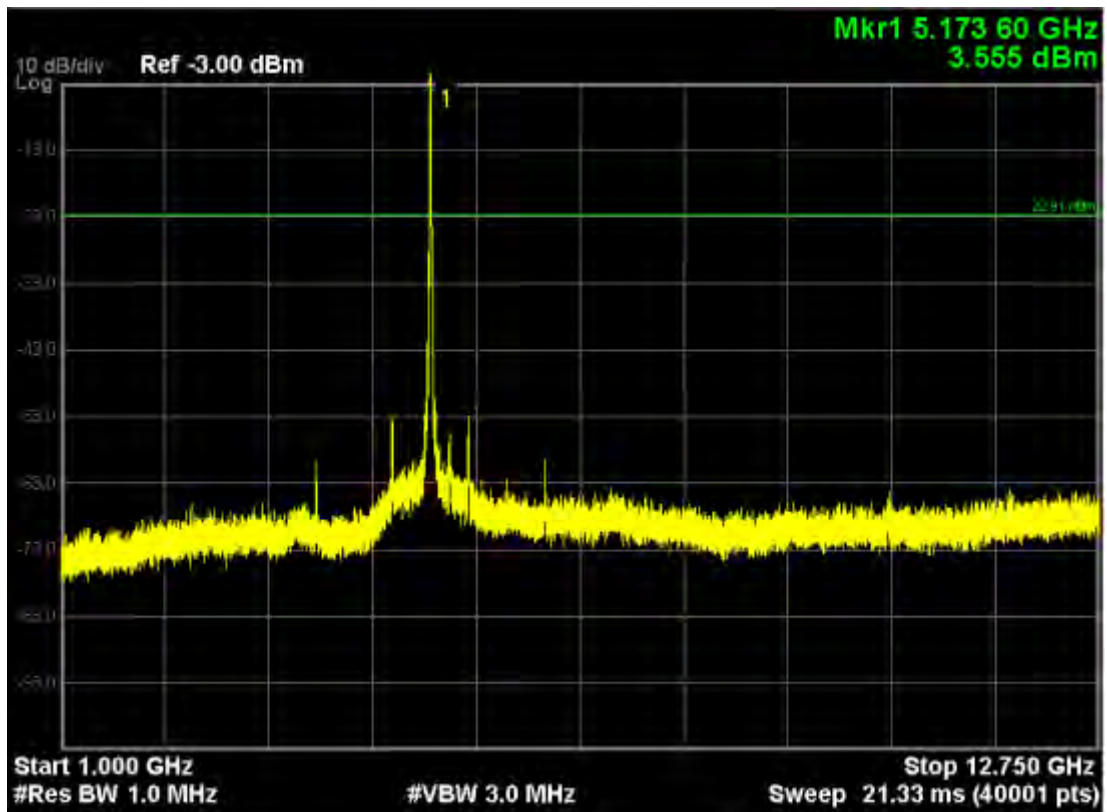
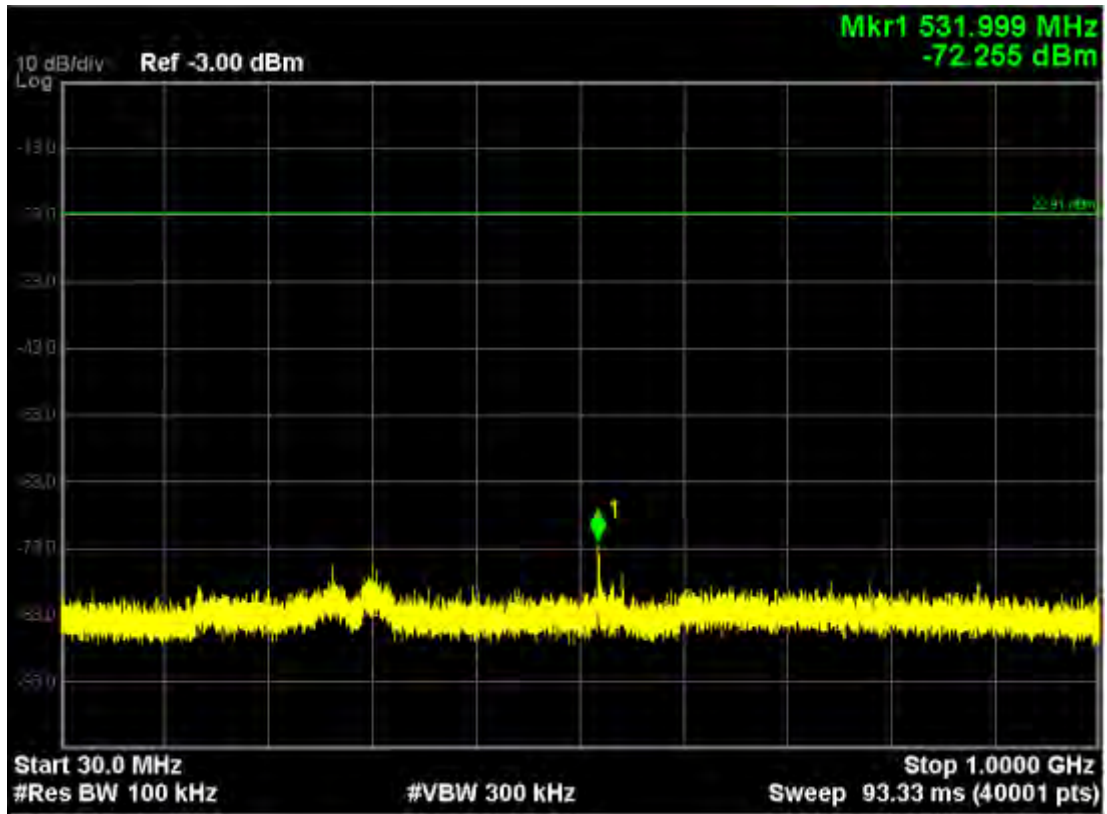


Note: The Mark1 point is carrier.

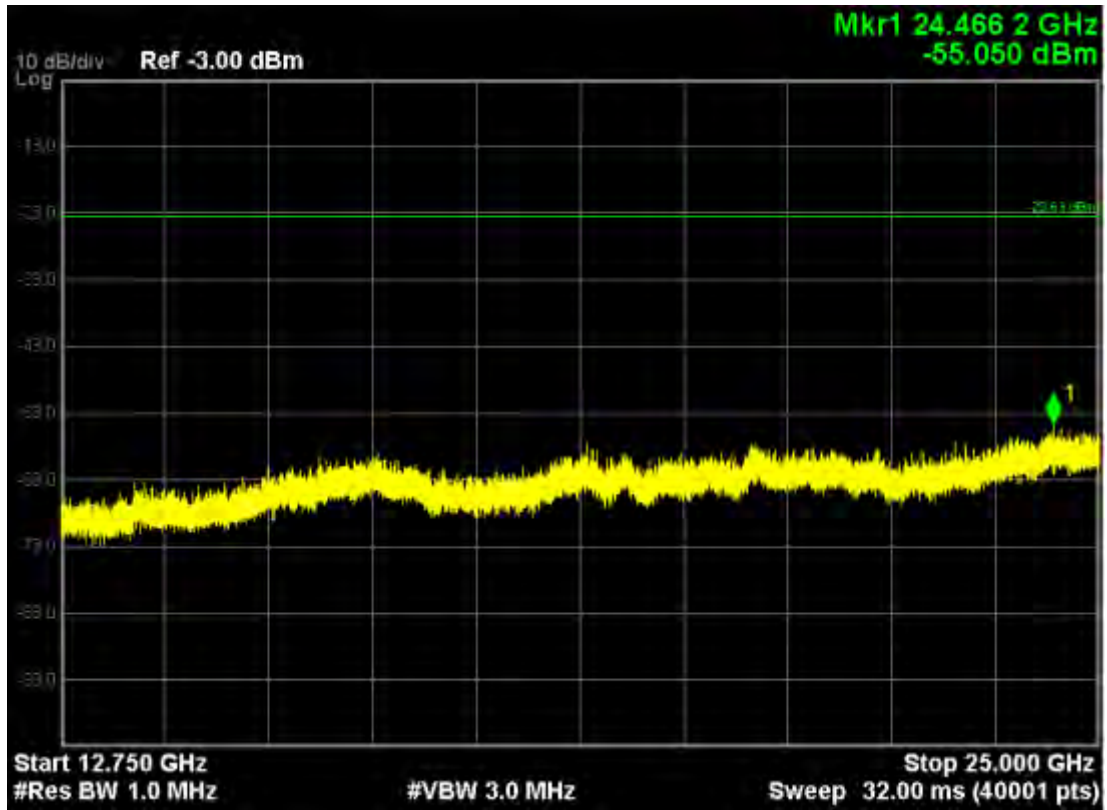


802.11n20, traffic mode; Channel 36

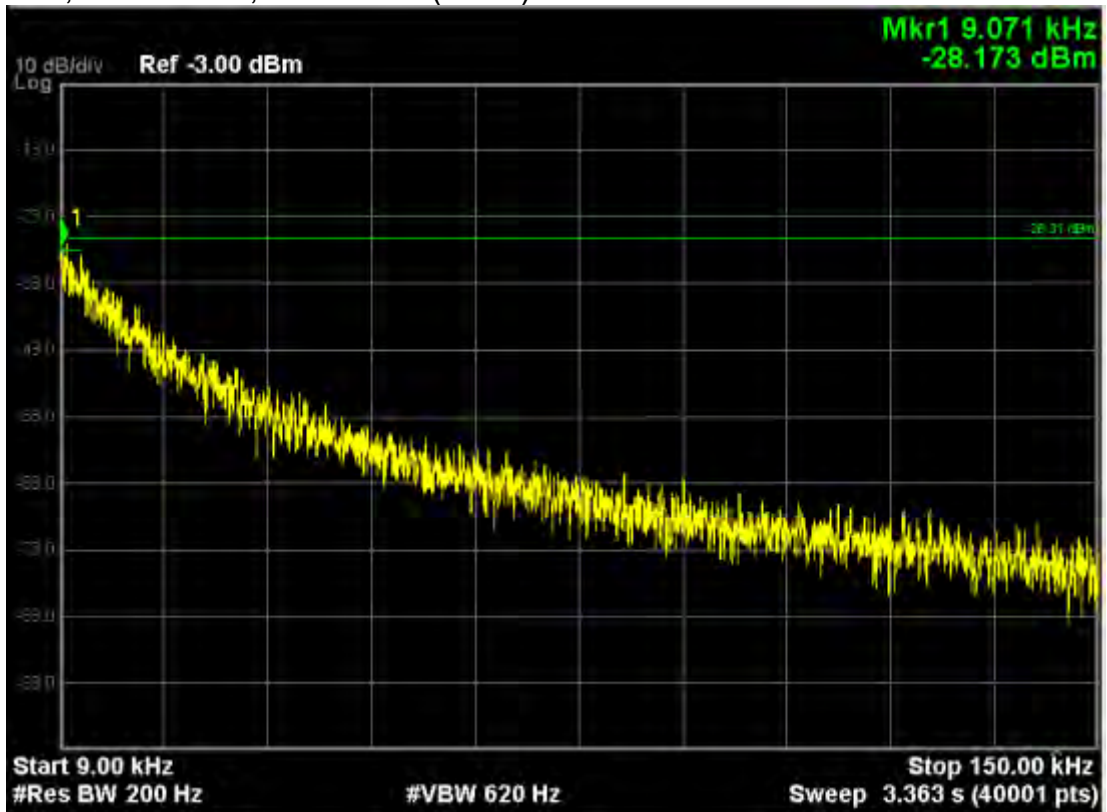


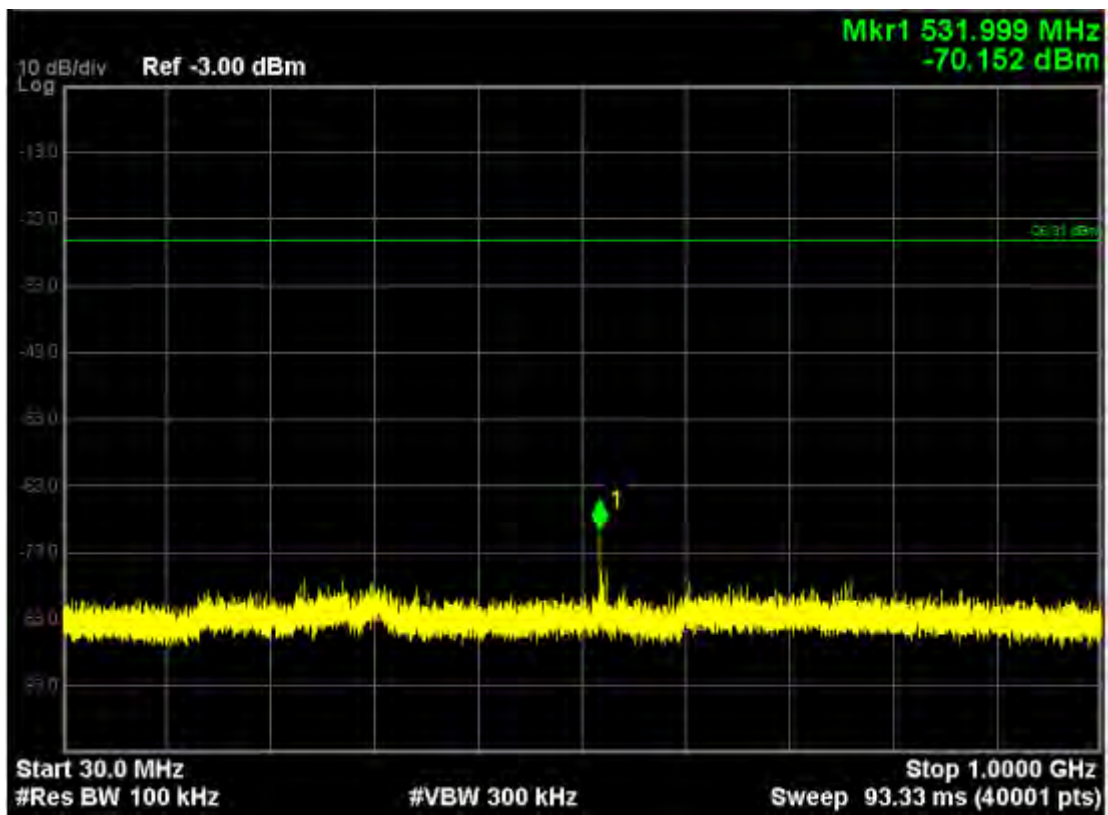
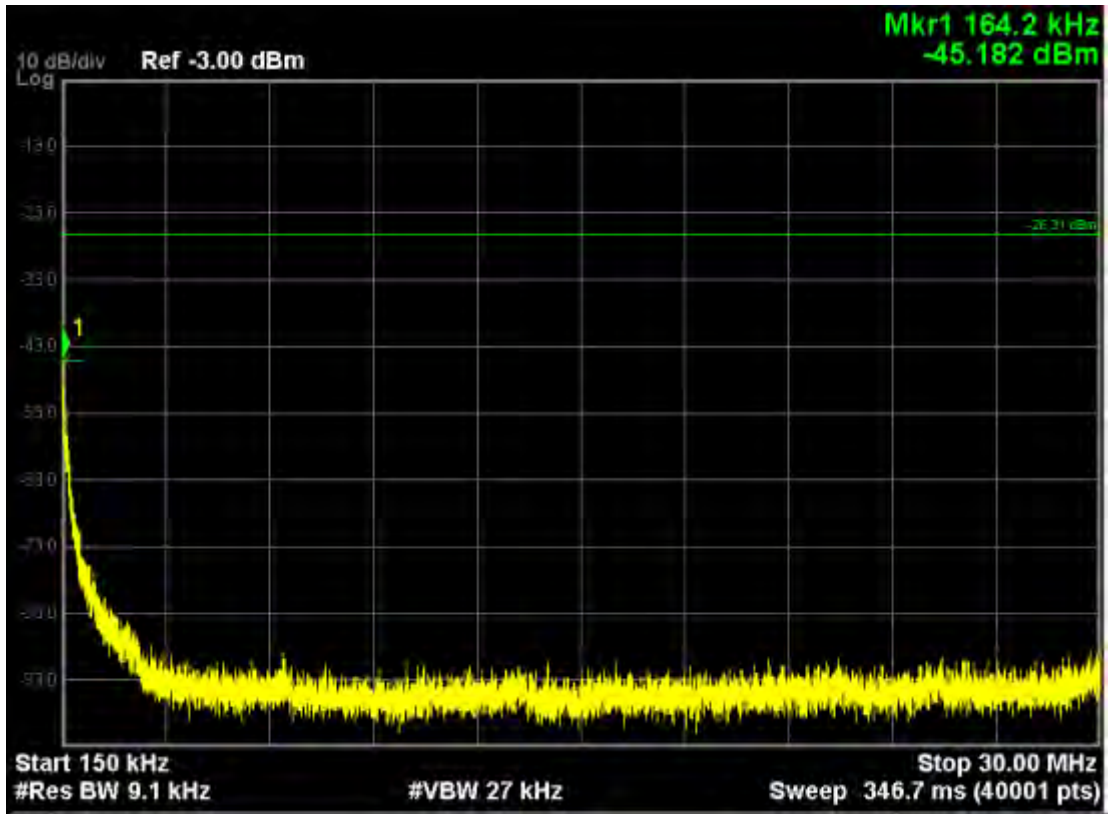


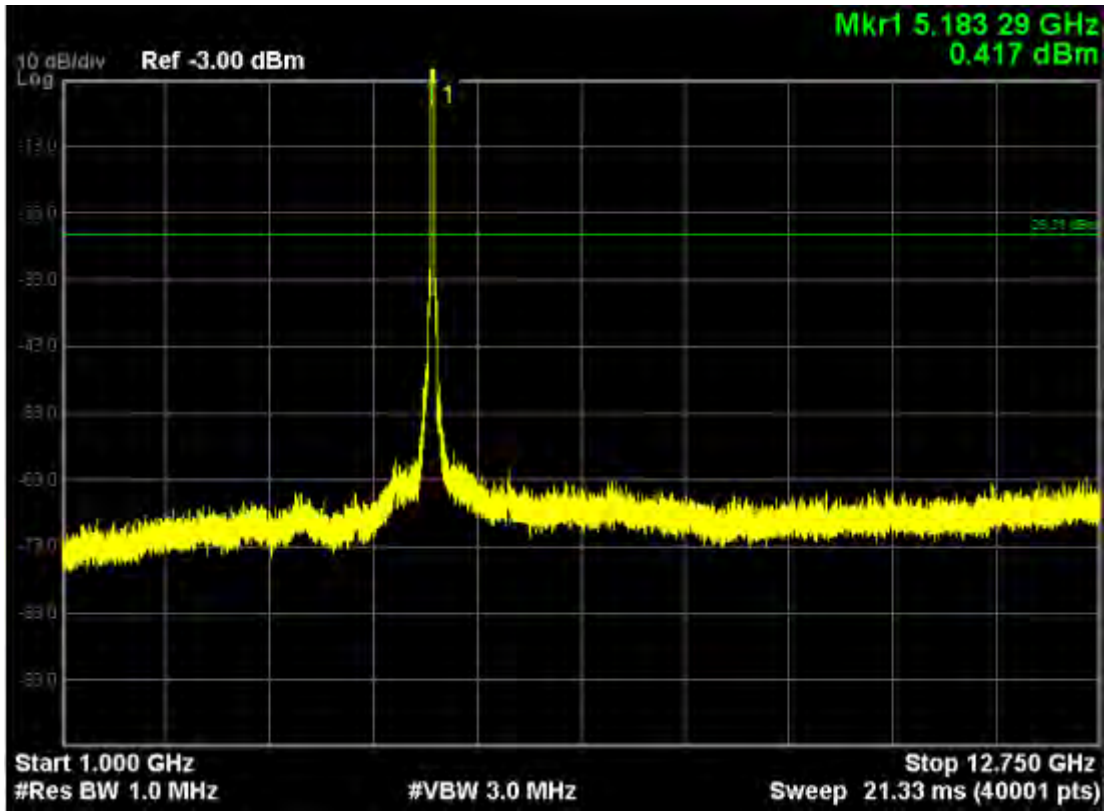
Note: The Mark1 point is carrier.



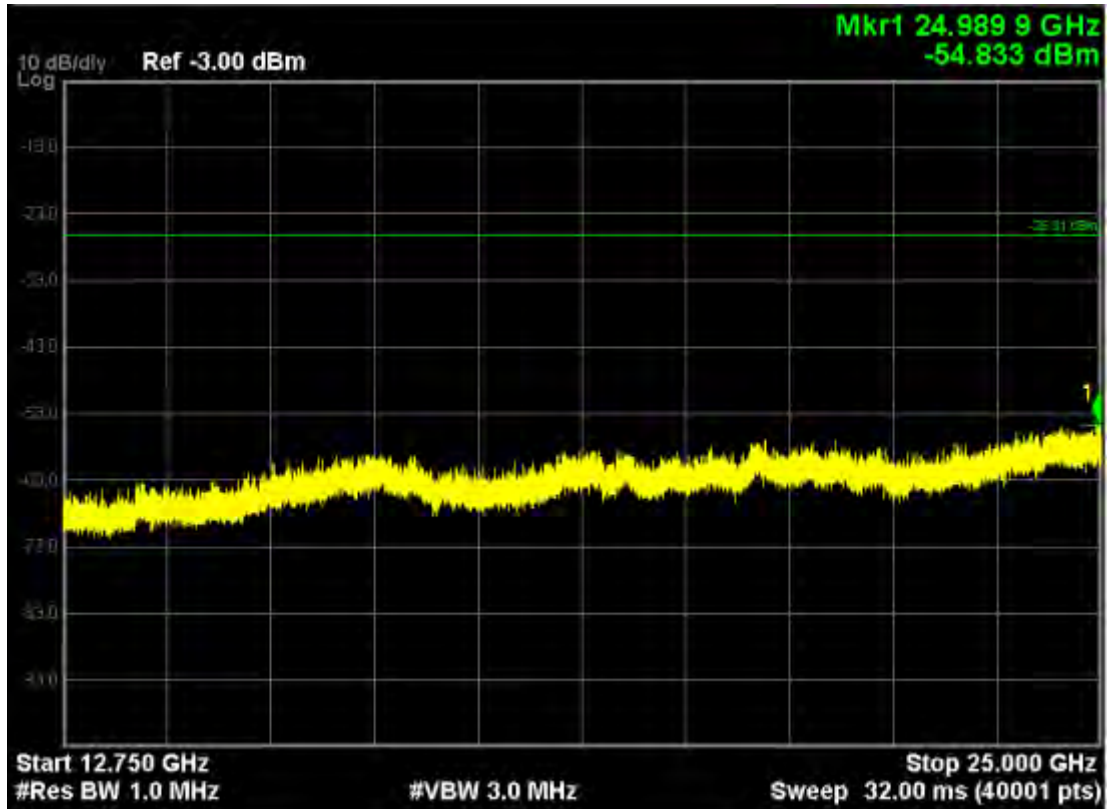
802.11n20, traffic mode; Channel 36(mimo)



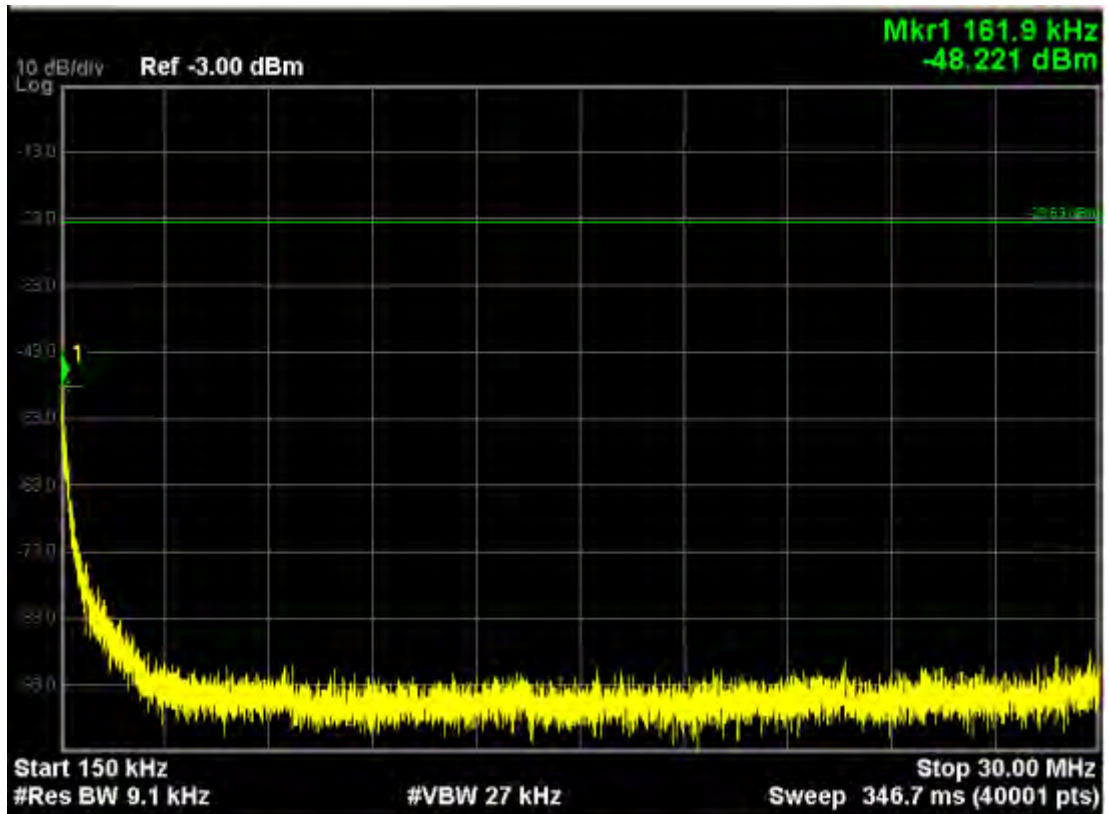
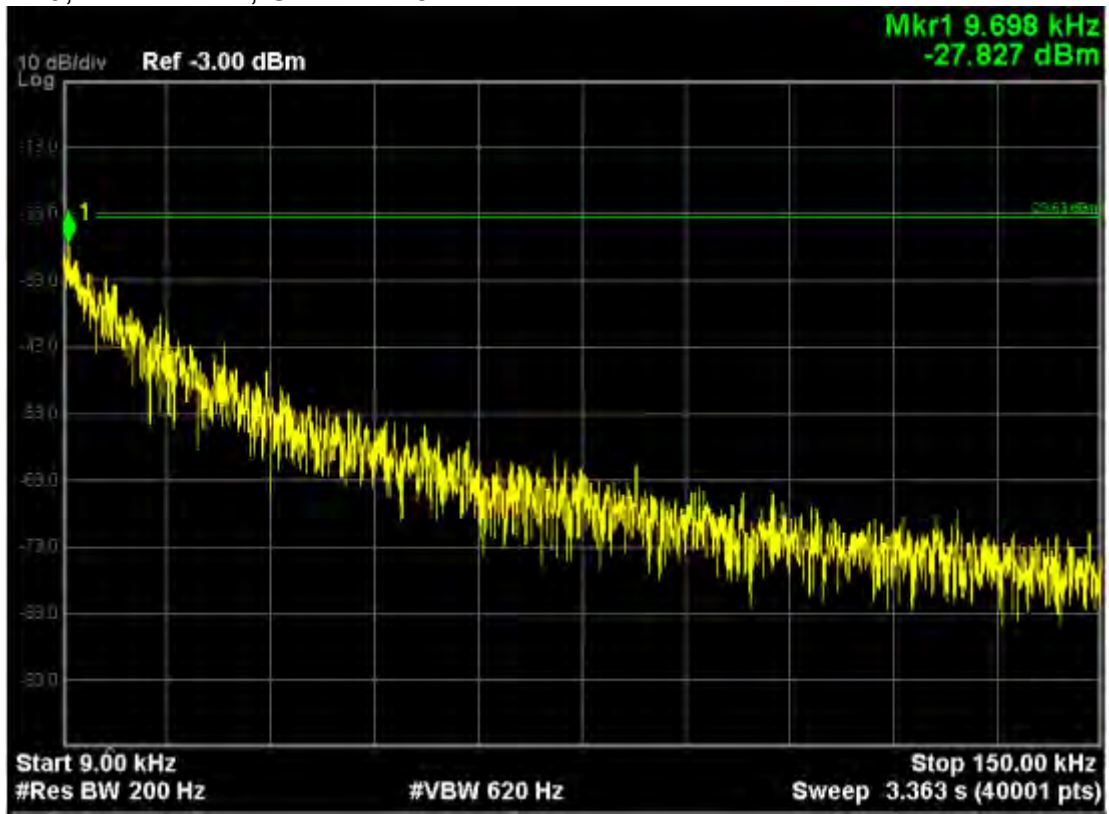


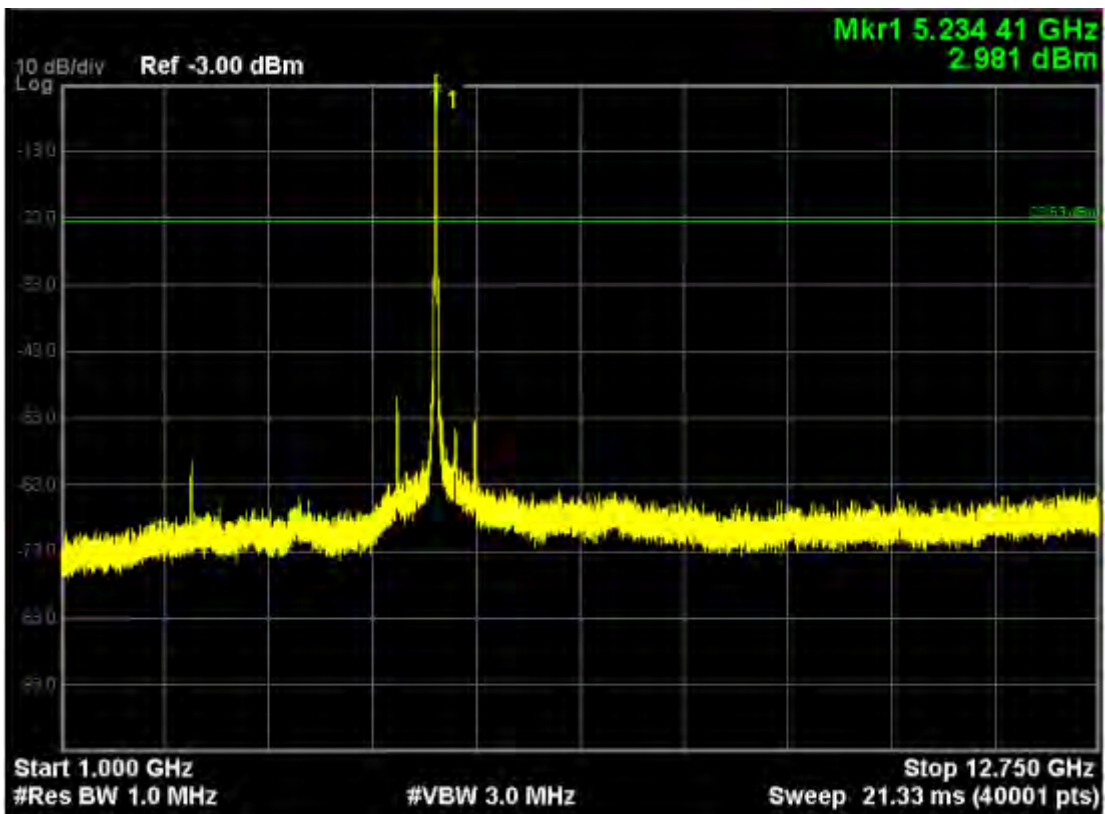
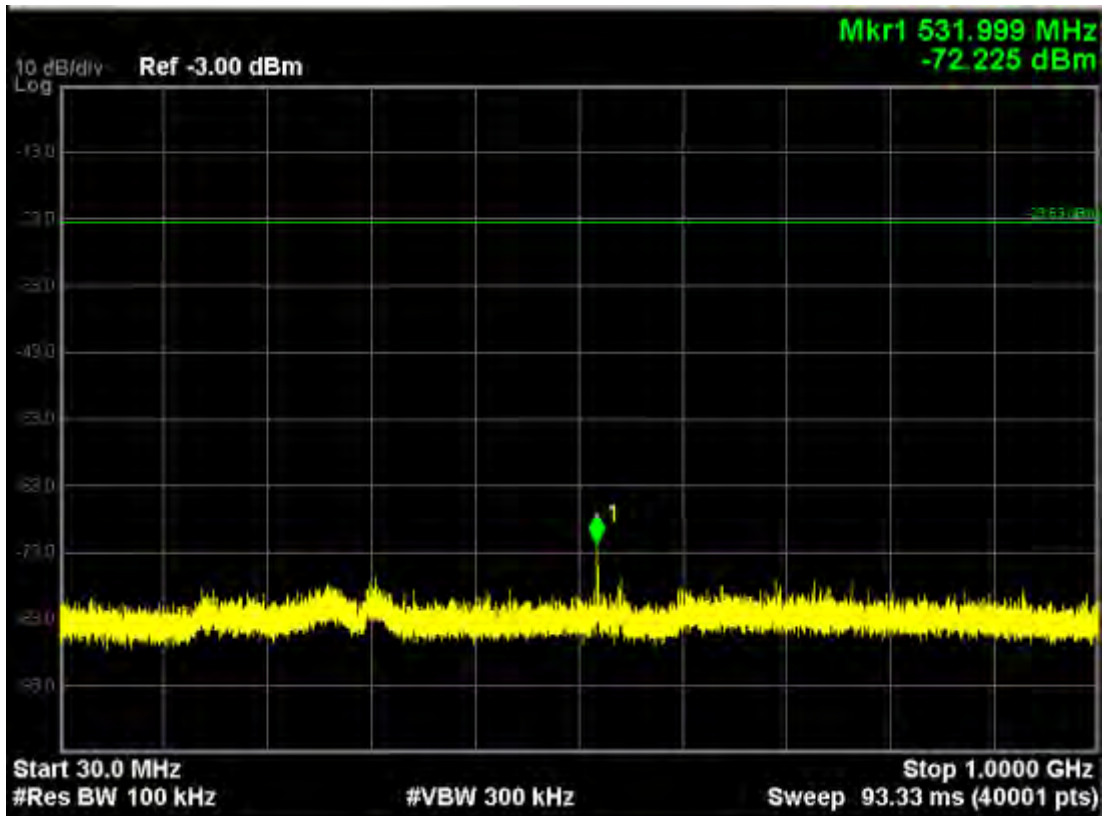


Note: The Mark1 point is carrier.

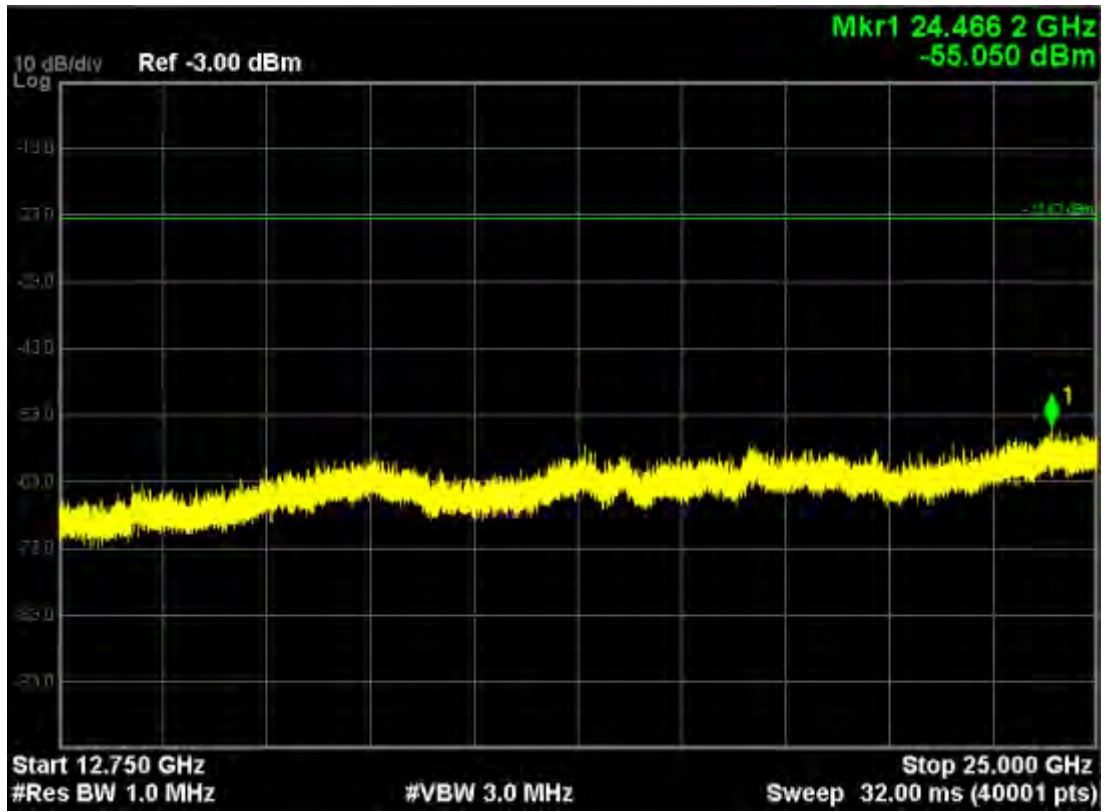


802.11n20, traffic mode; Channel 48

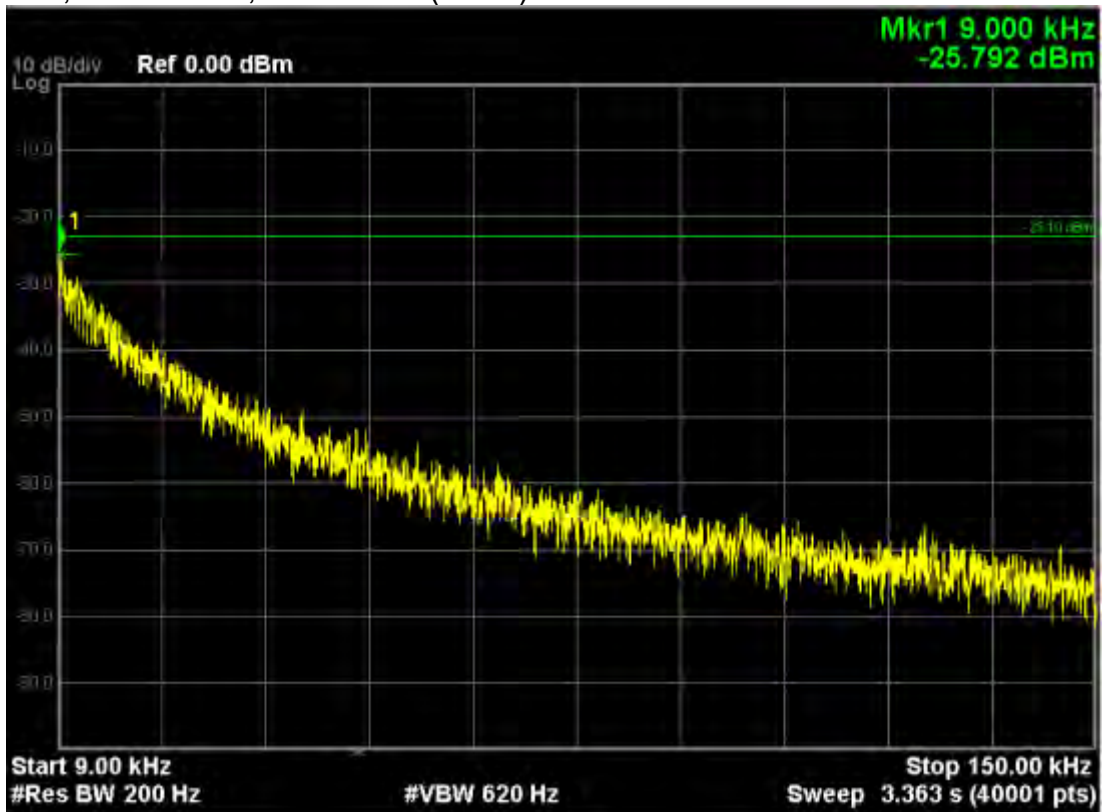


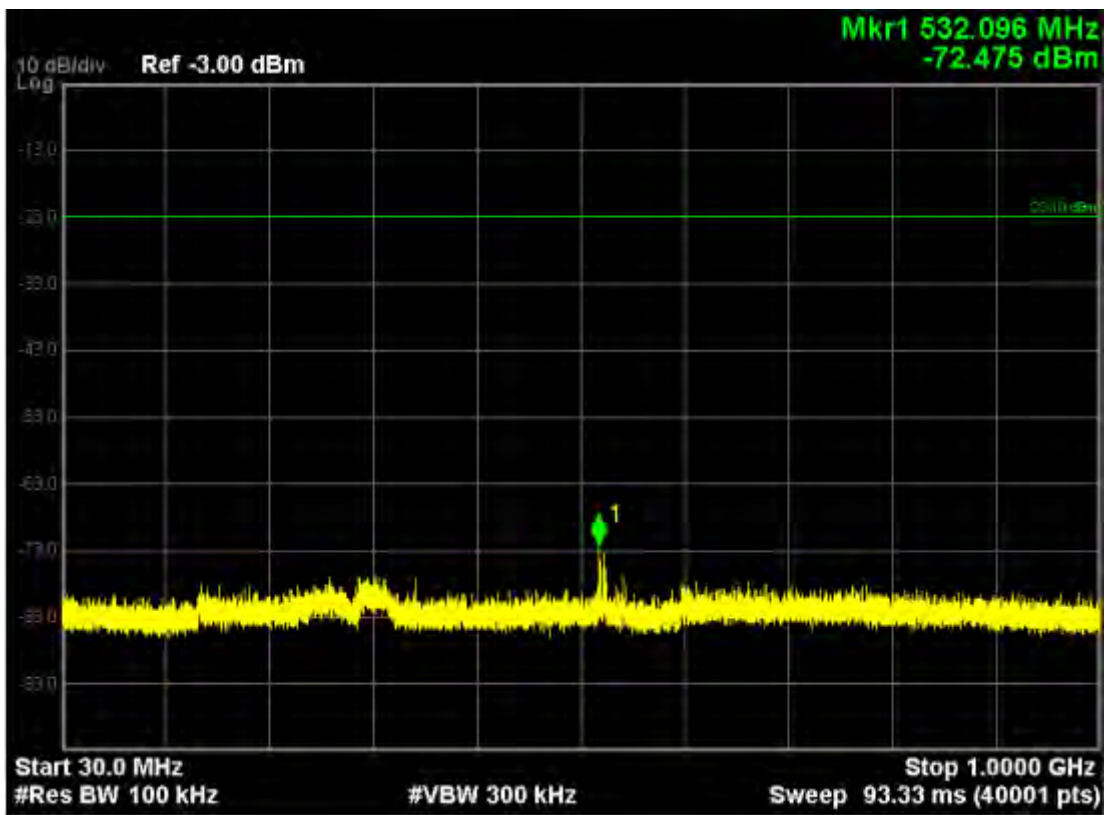
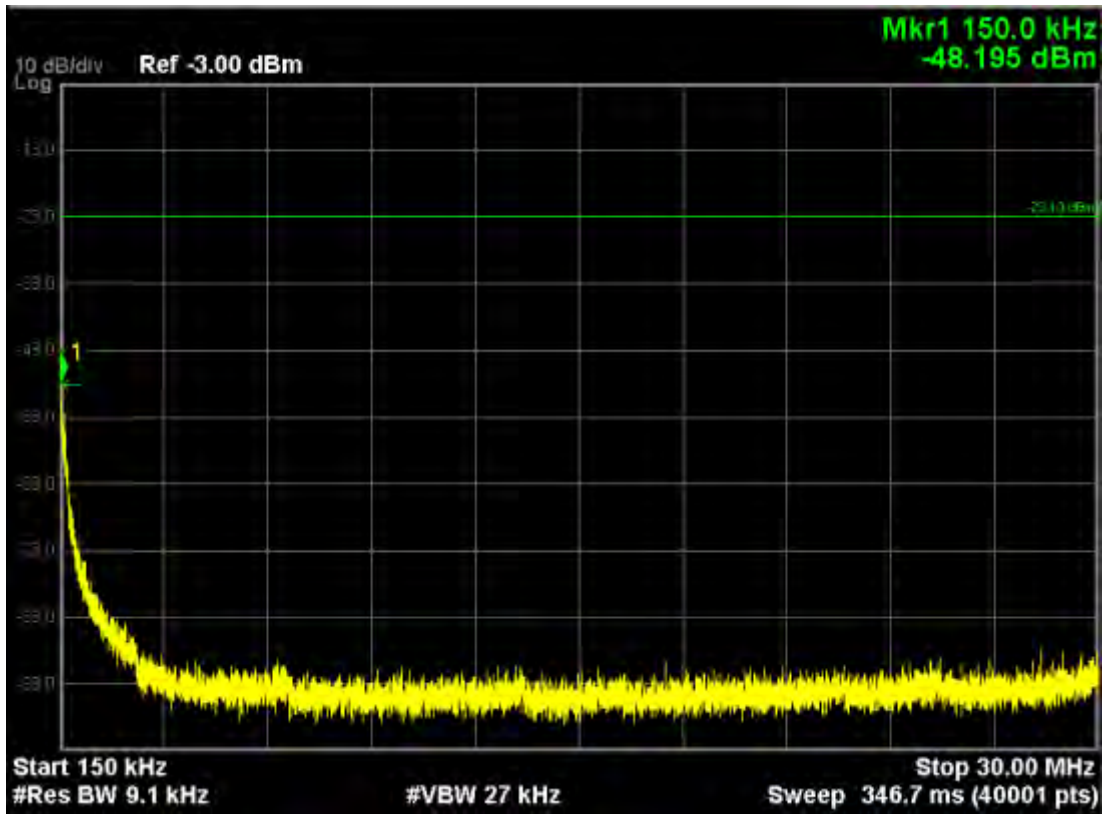


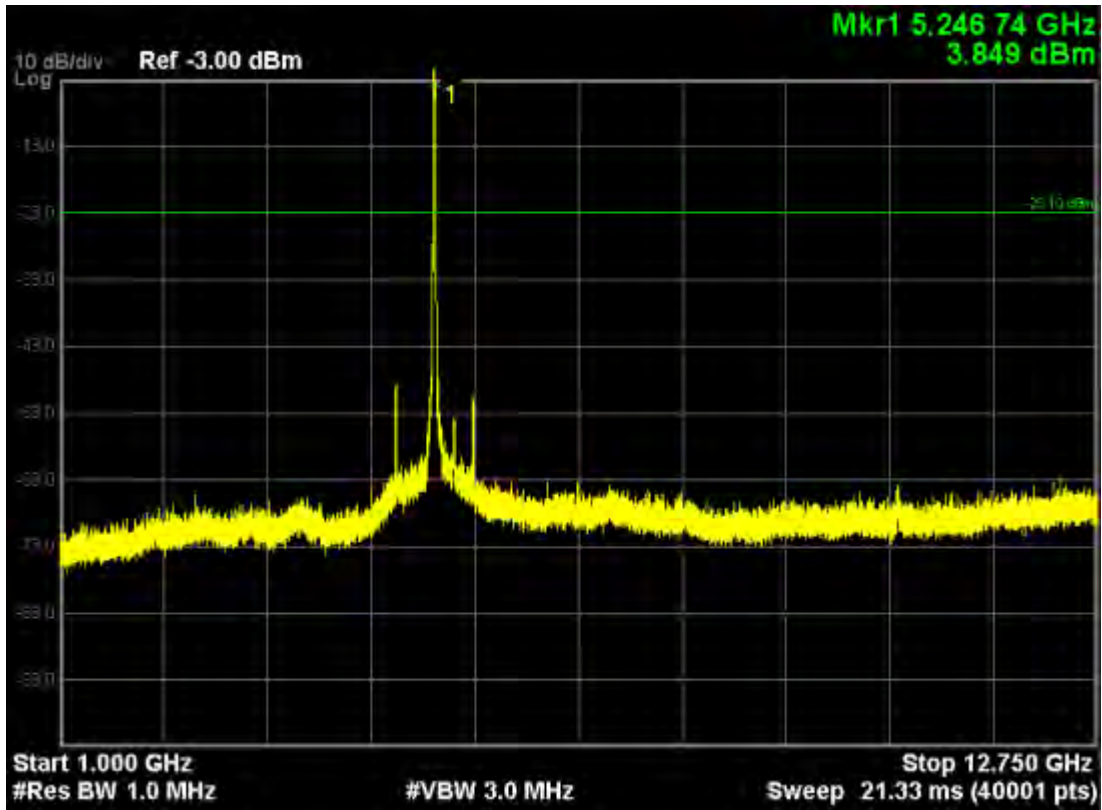
Note: The Mark1 point is carrier.



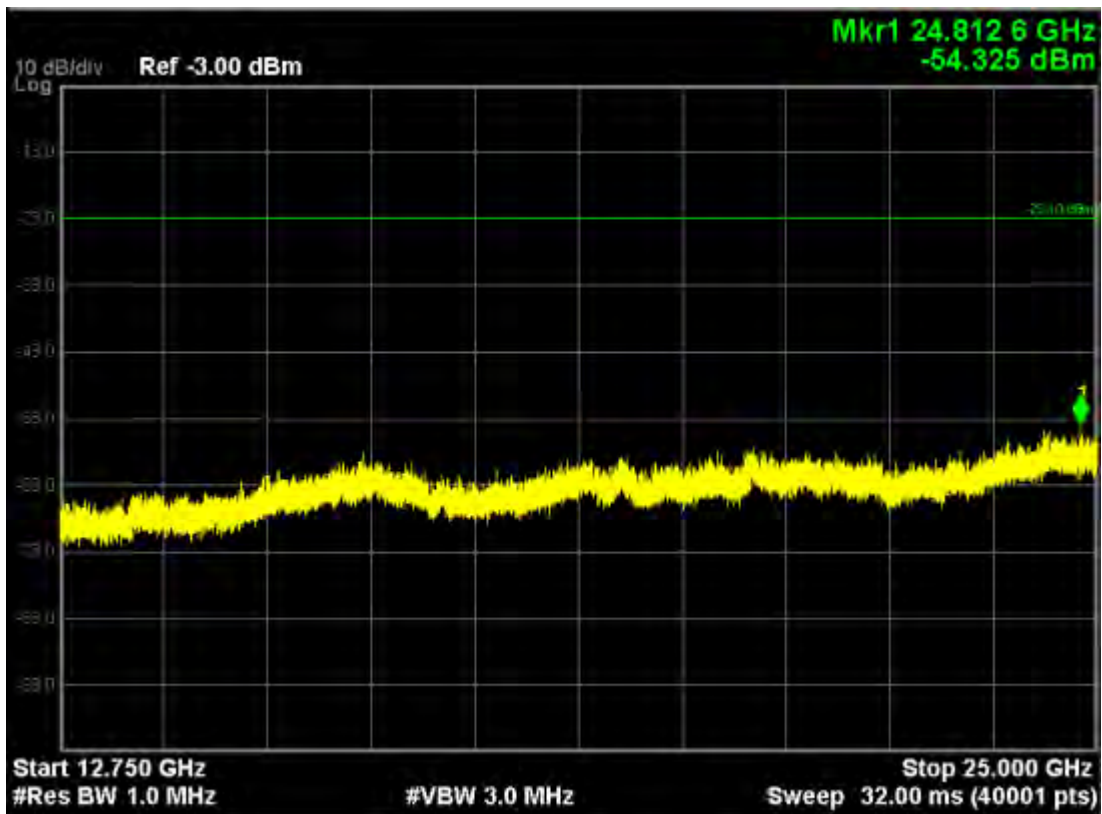
802.11n20, traffic mode; Channel 48(mimo)



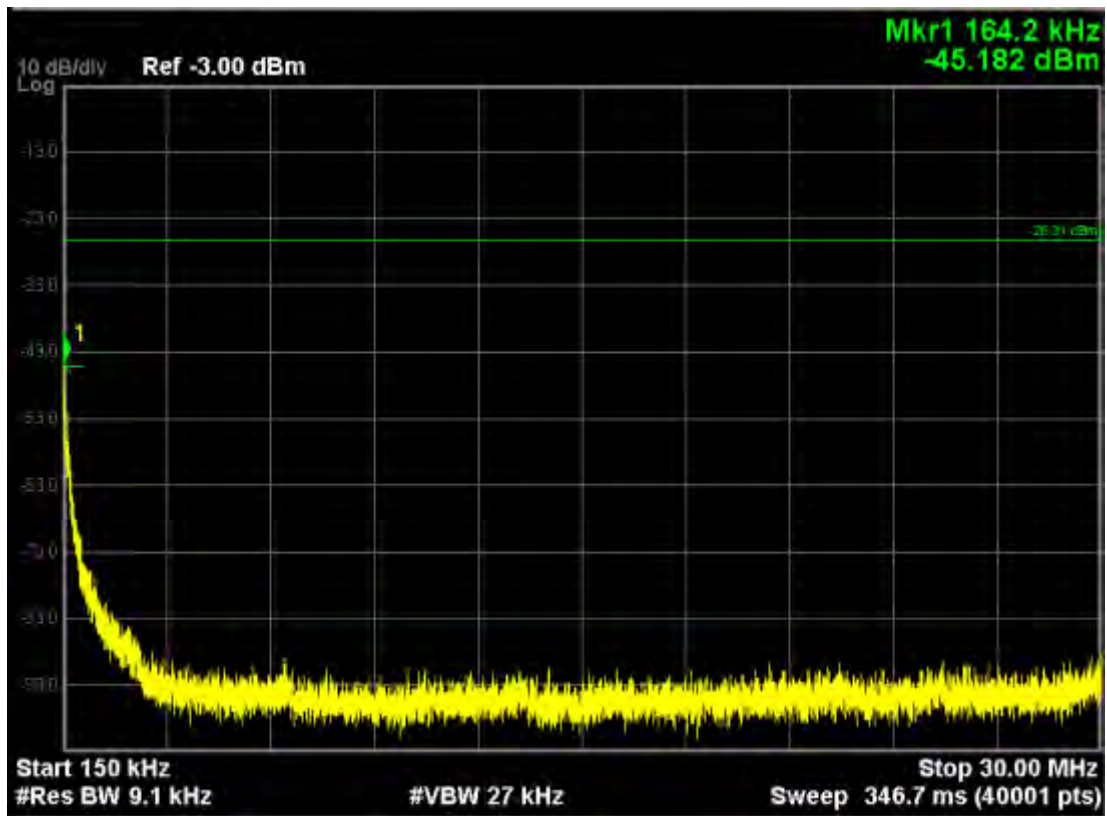
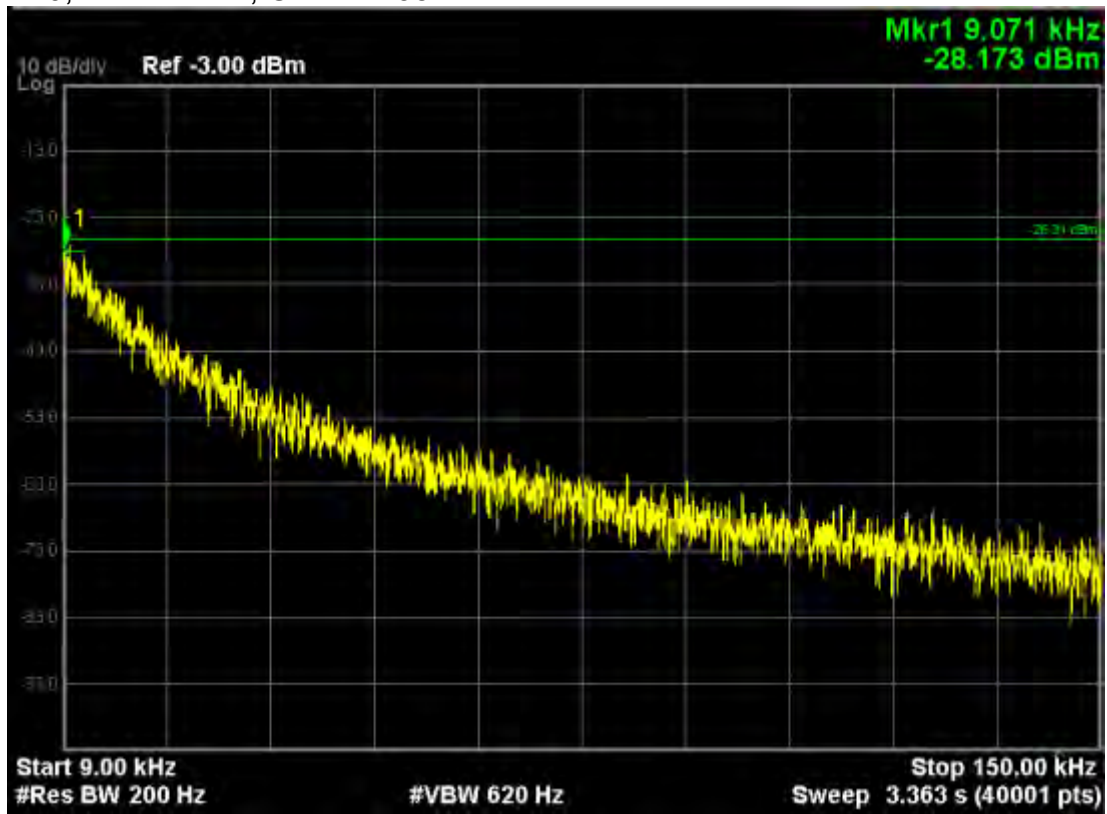


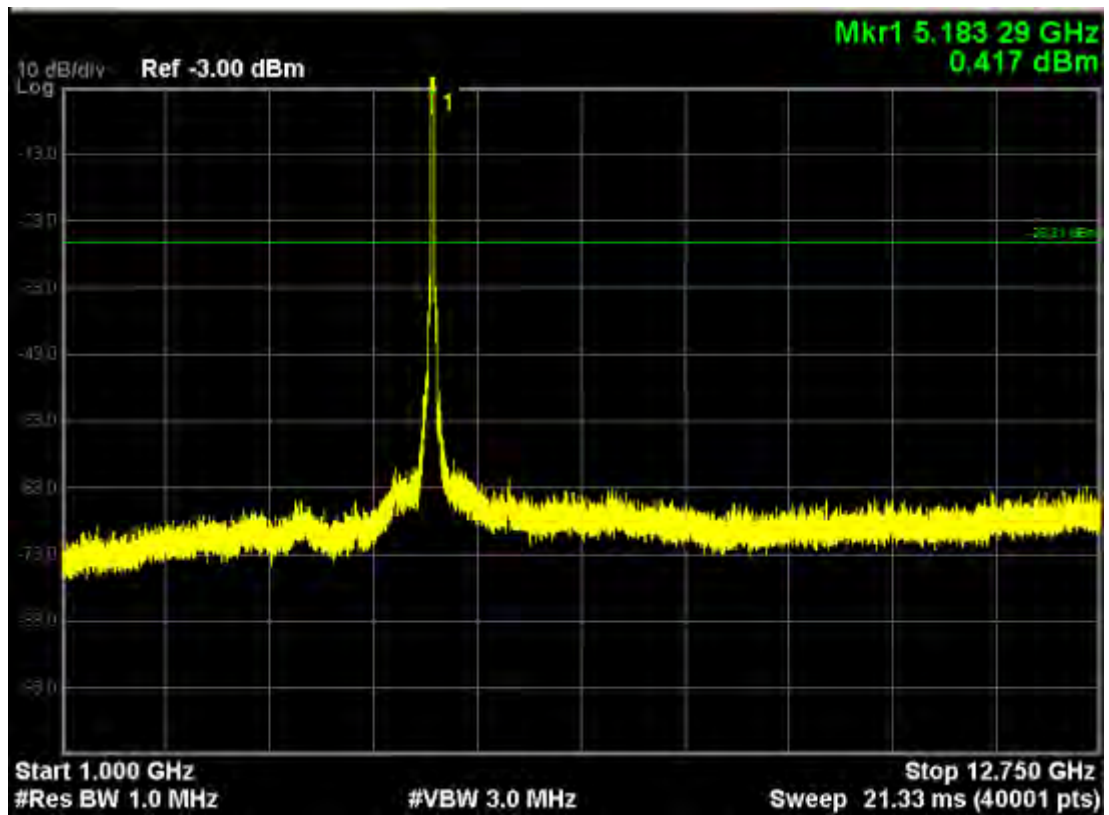
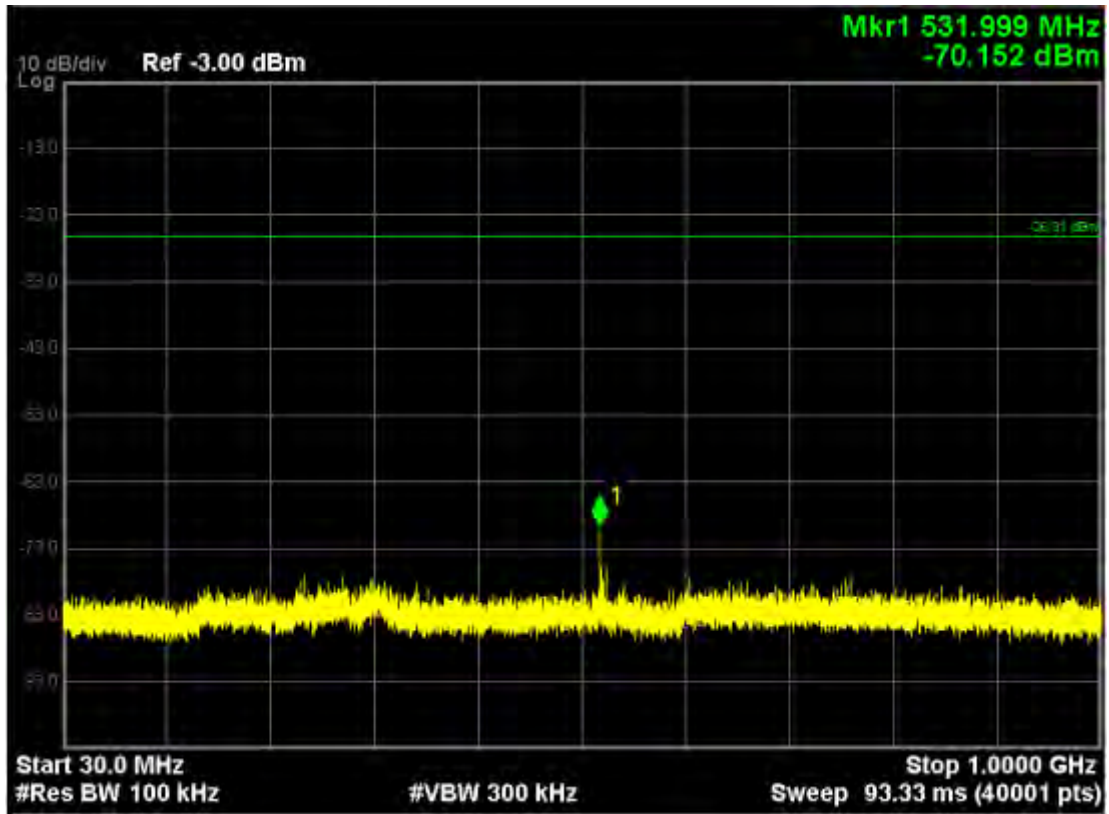


Note: The Mark1 point is carrier.

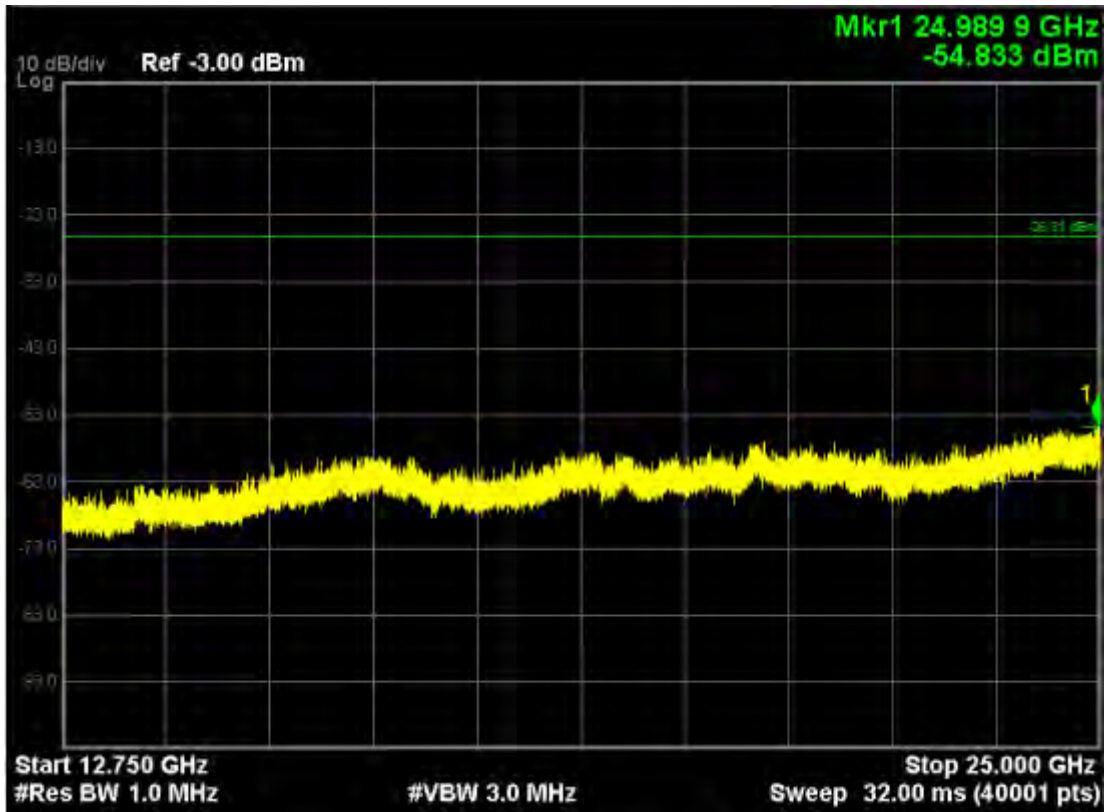


802.11n40, traffic mode; Channel 38

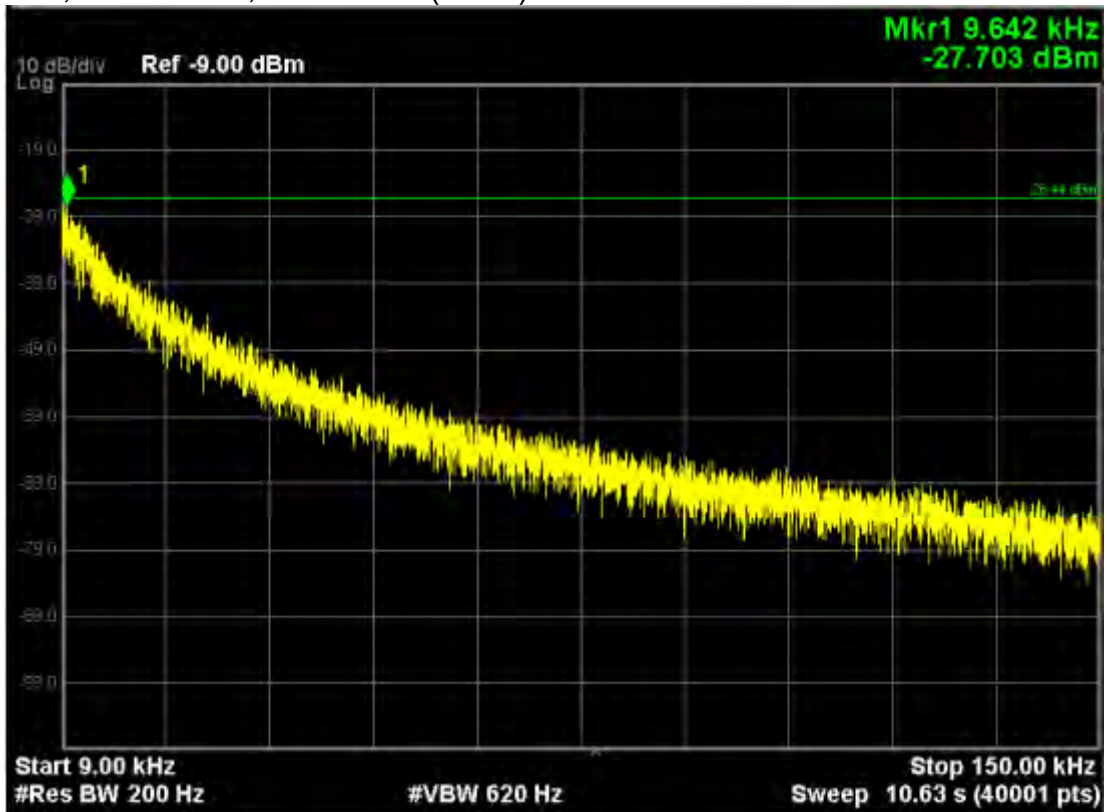


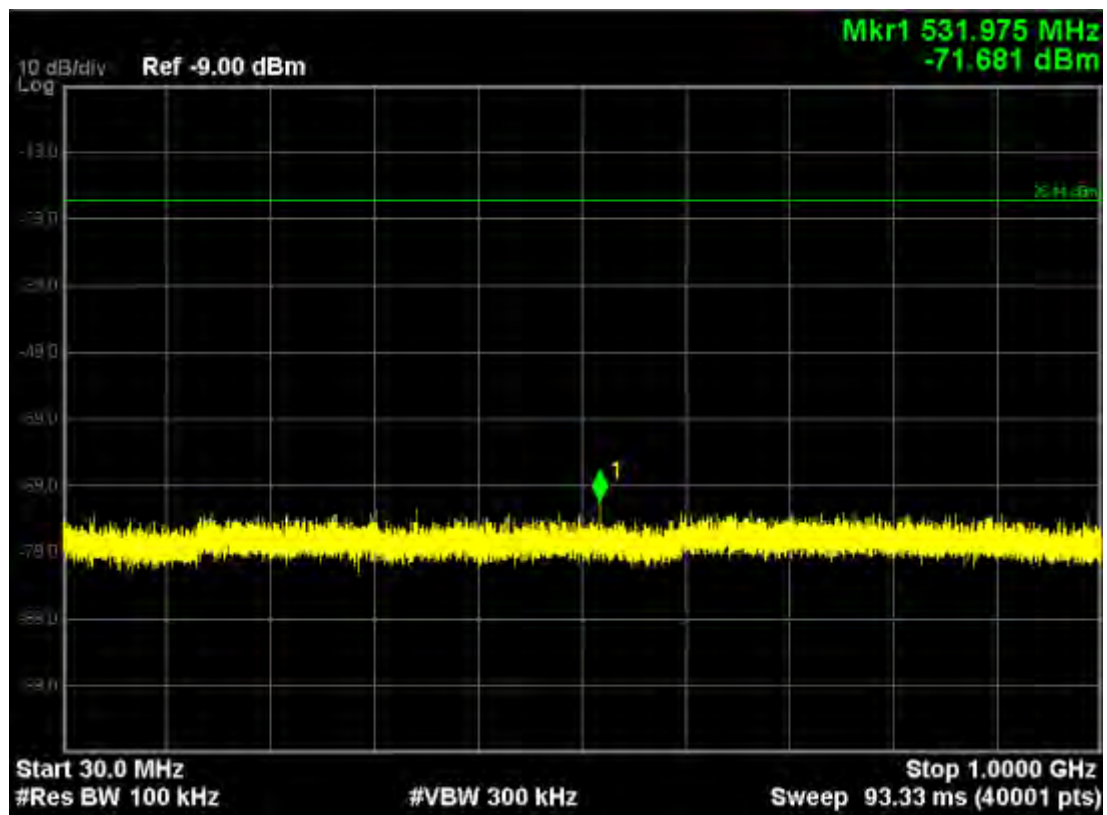
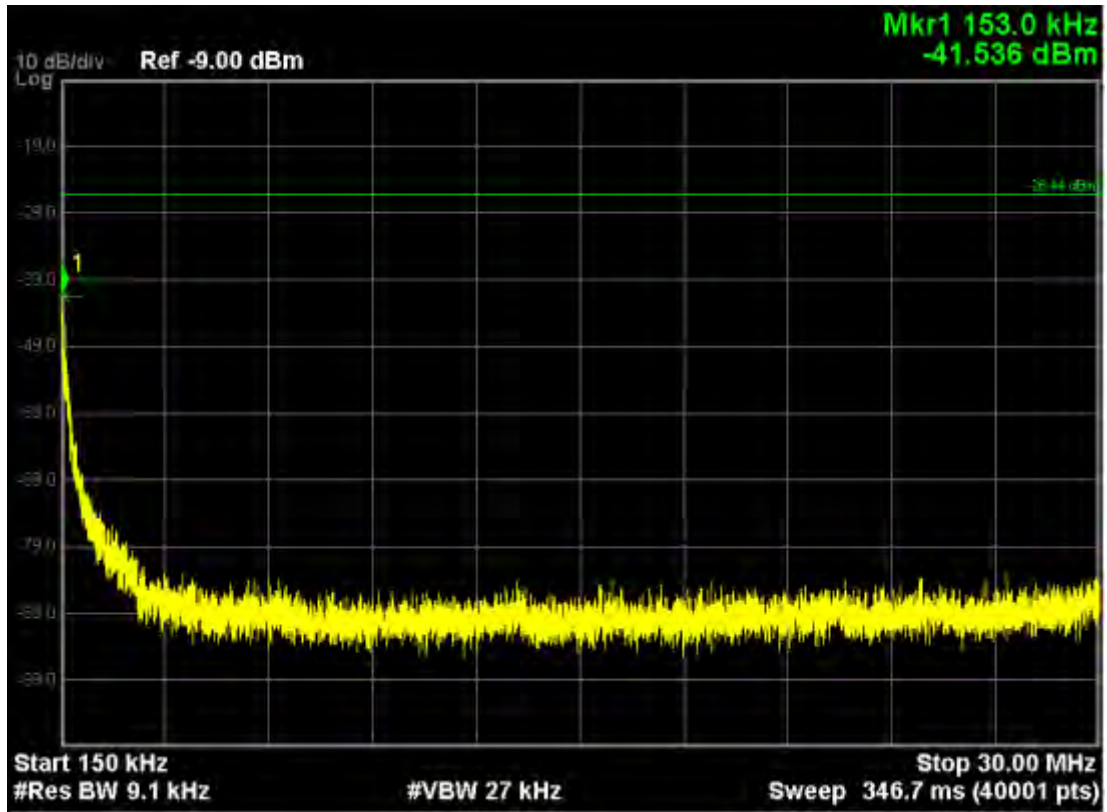


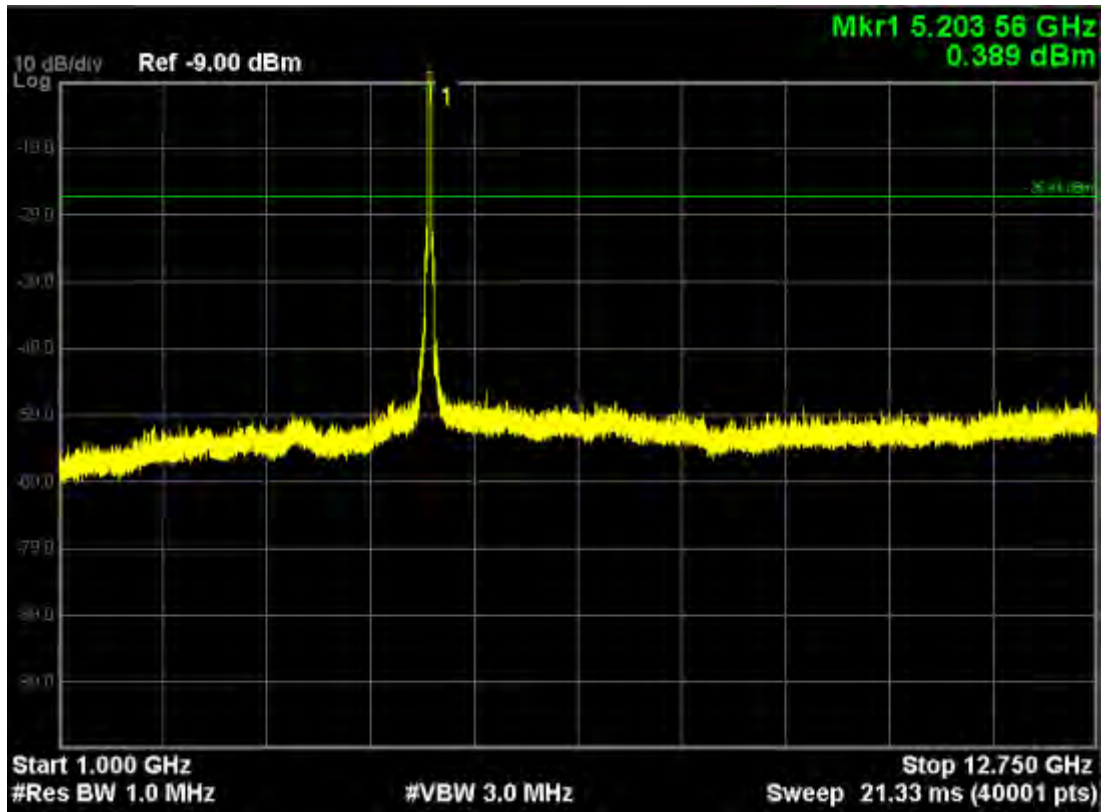
Note: The Mark1 point is carrier.



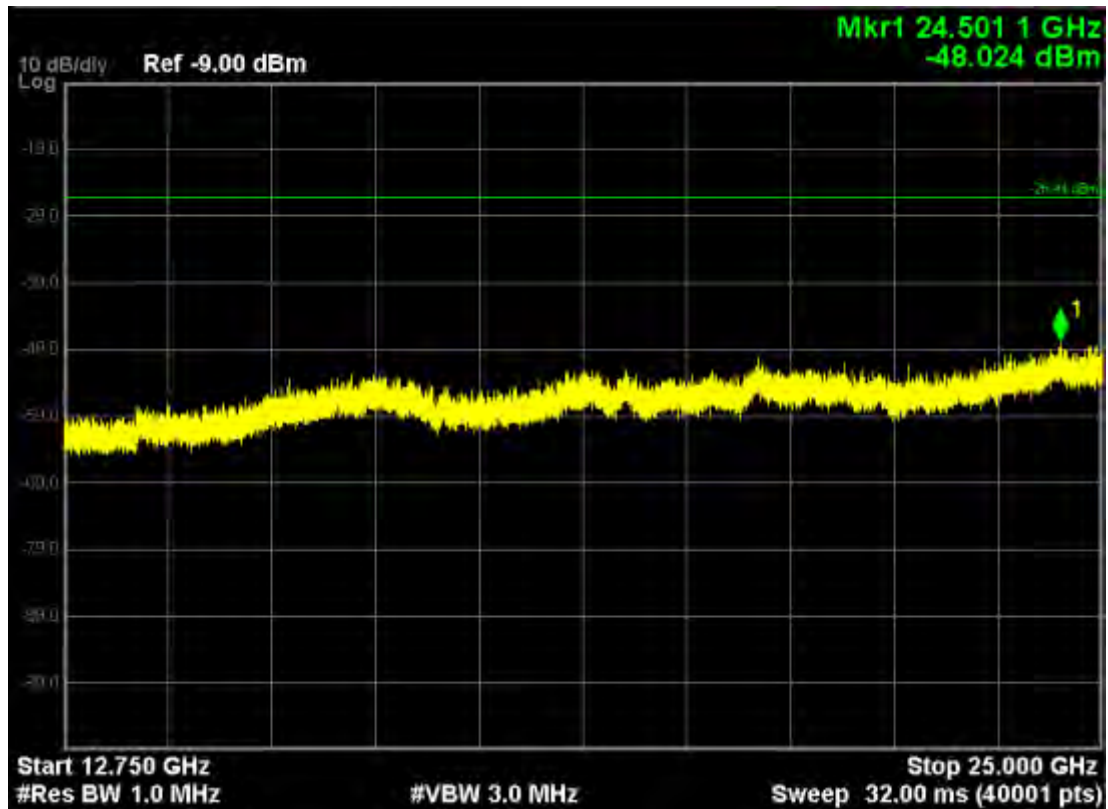
802.11n40, traffic mode; Channel 38(mimo)



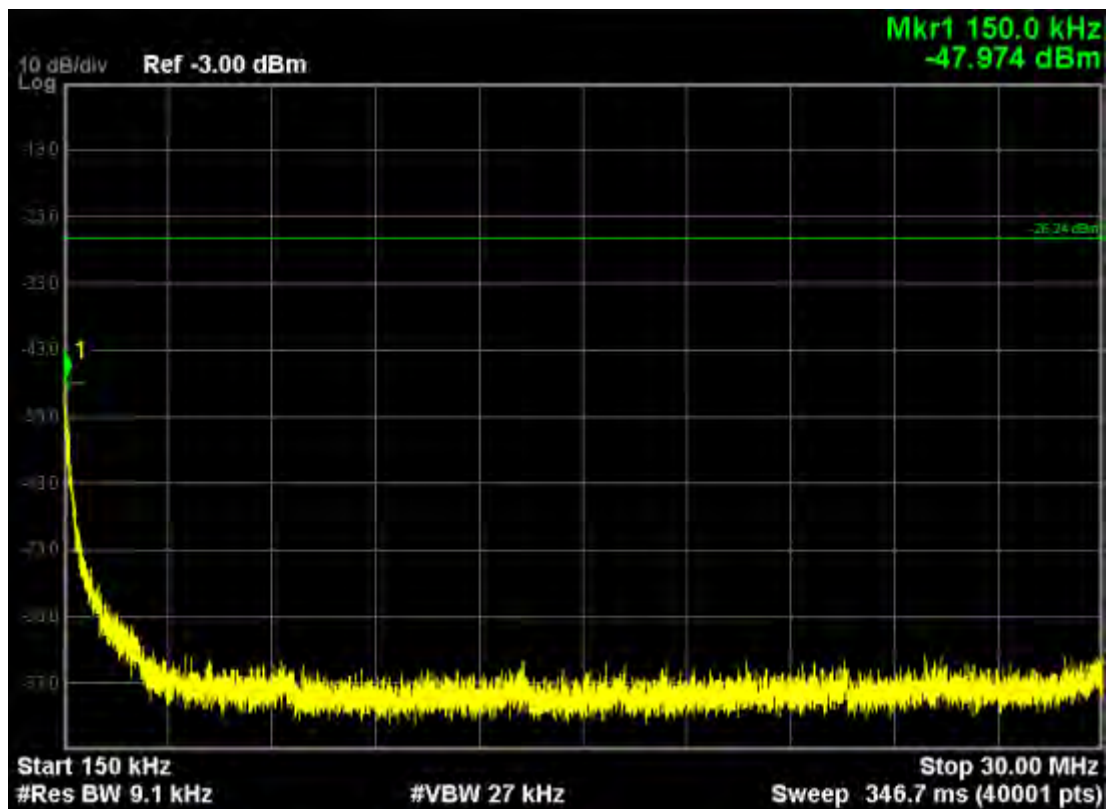
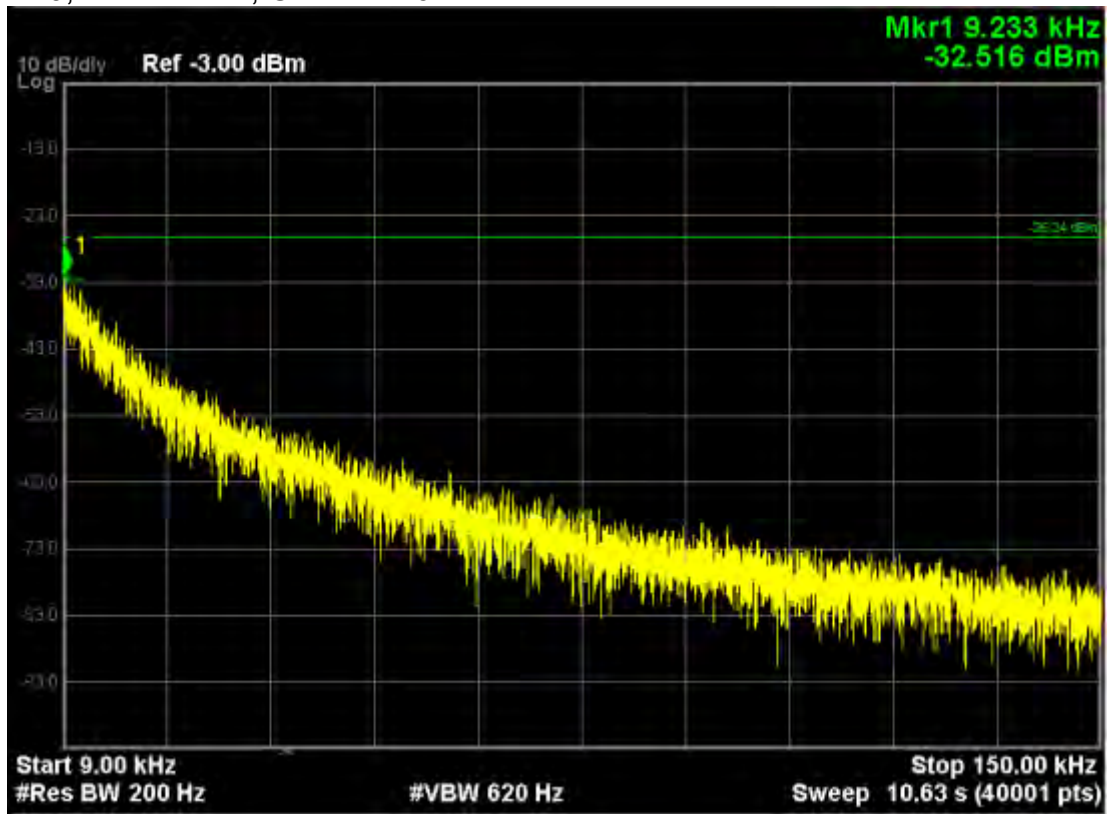


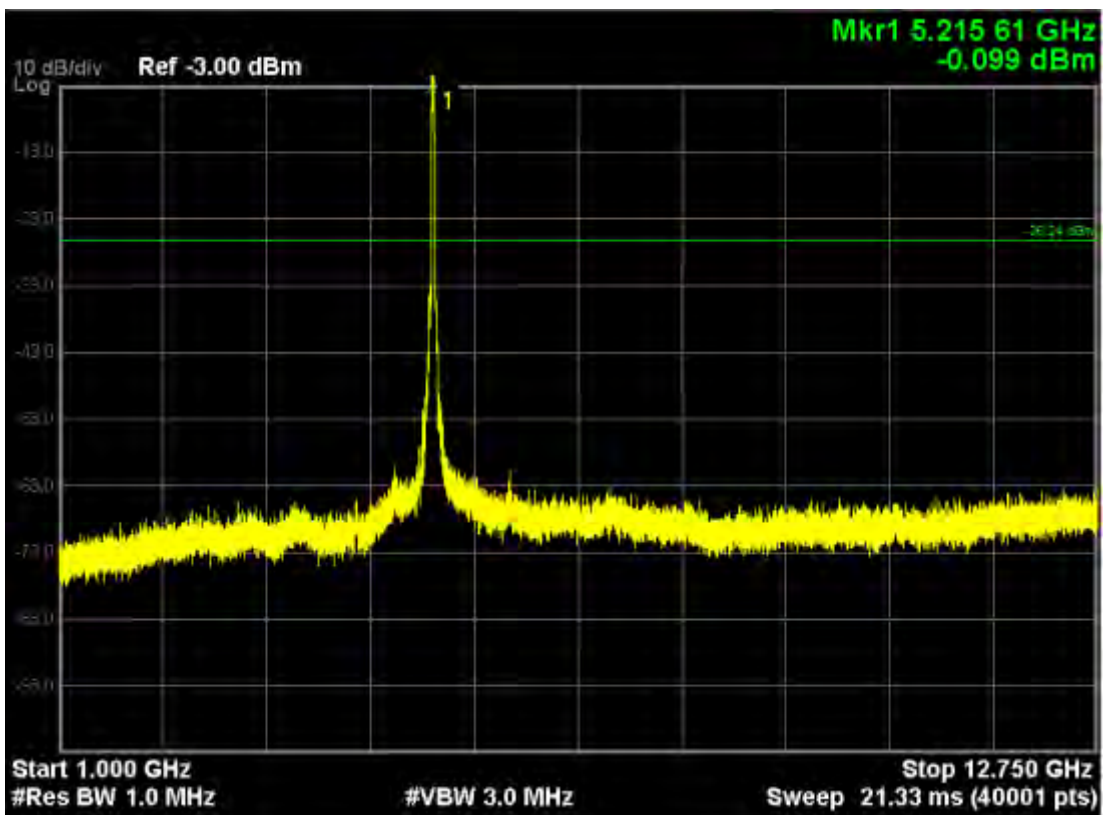
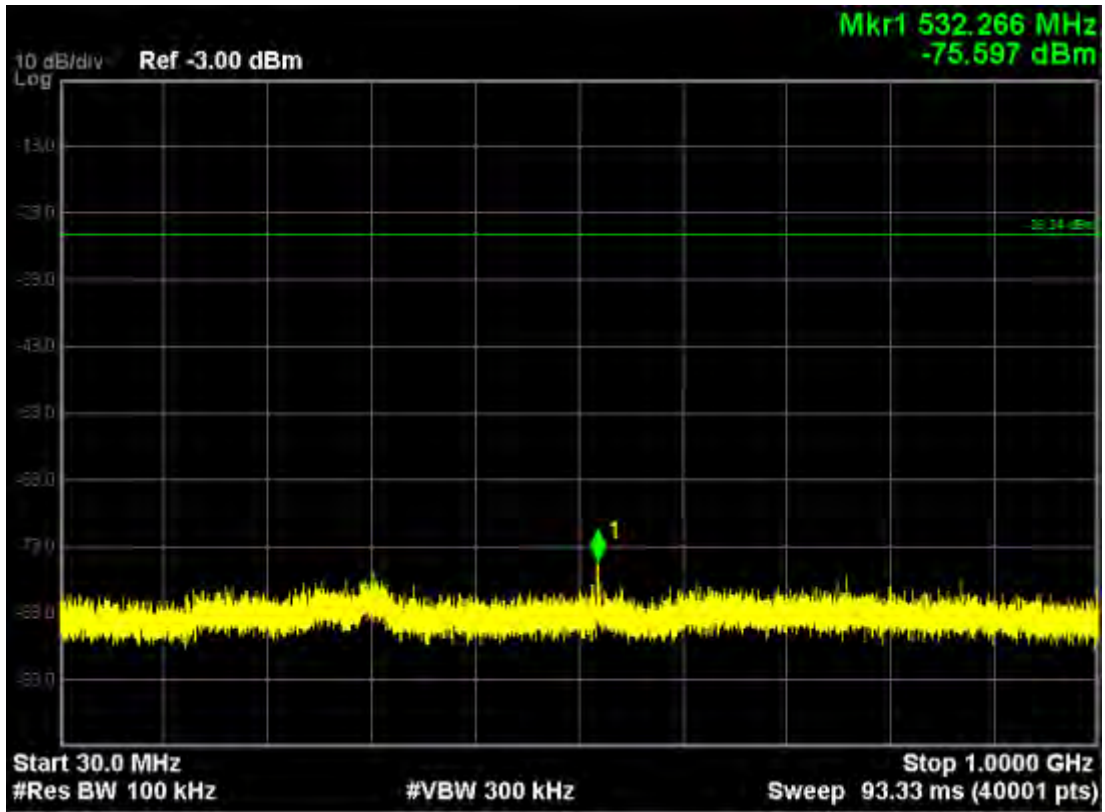


Note: The Mark1 point is carrier.

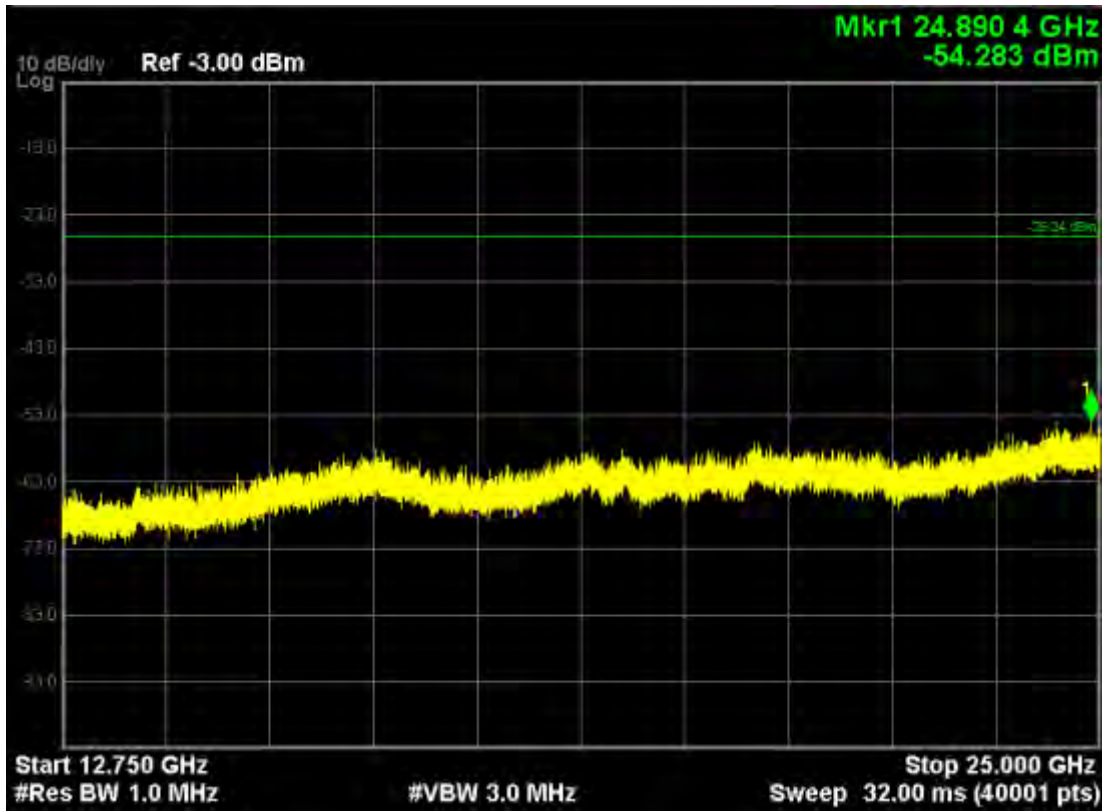


802.11n40, traffic mode; Channel 46

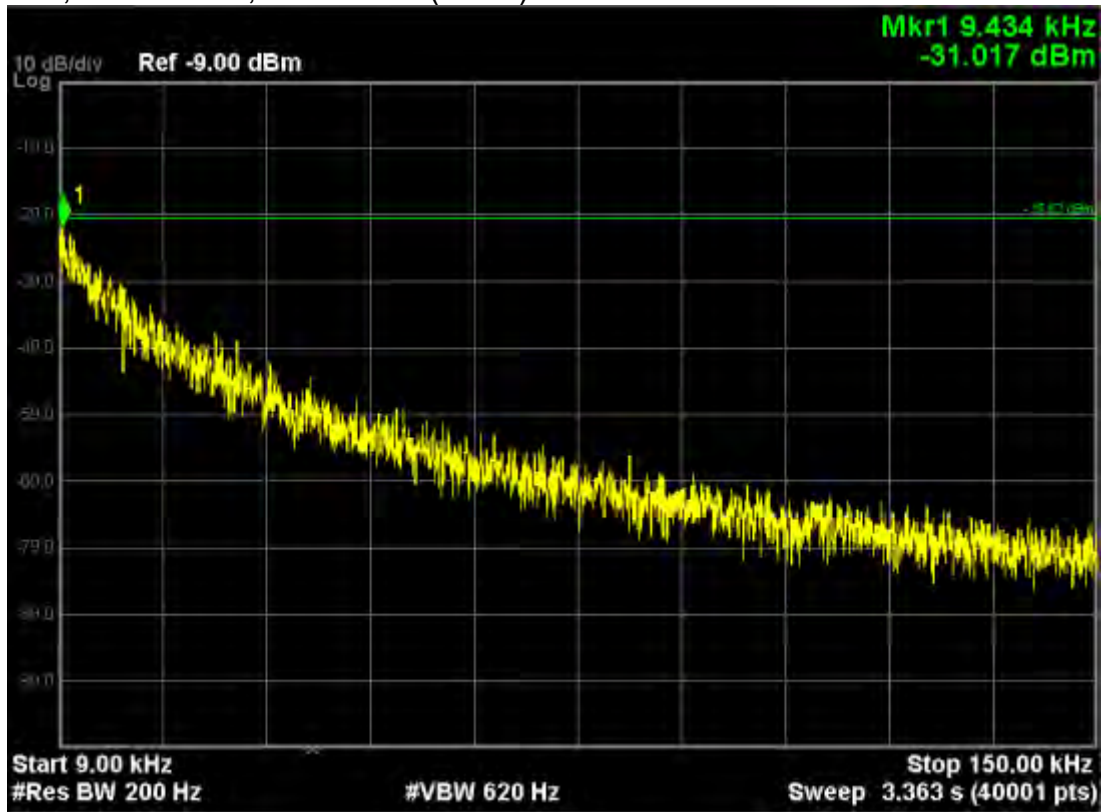


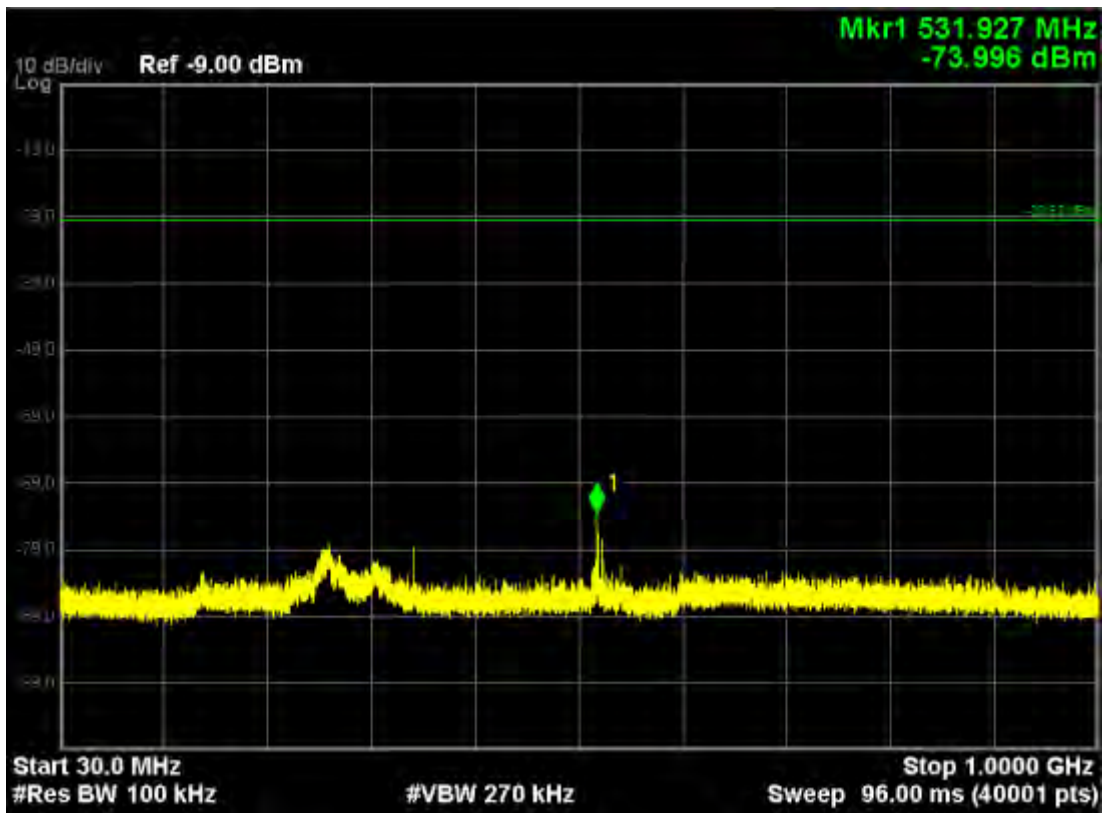
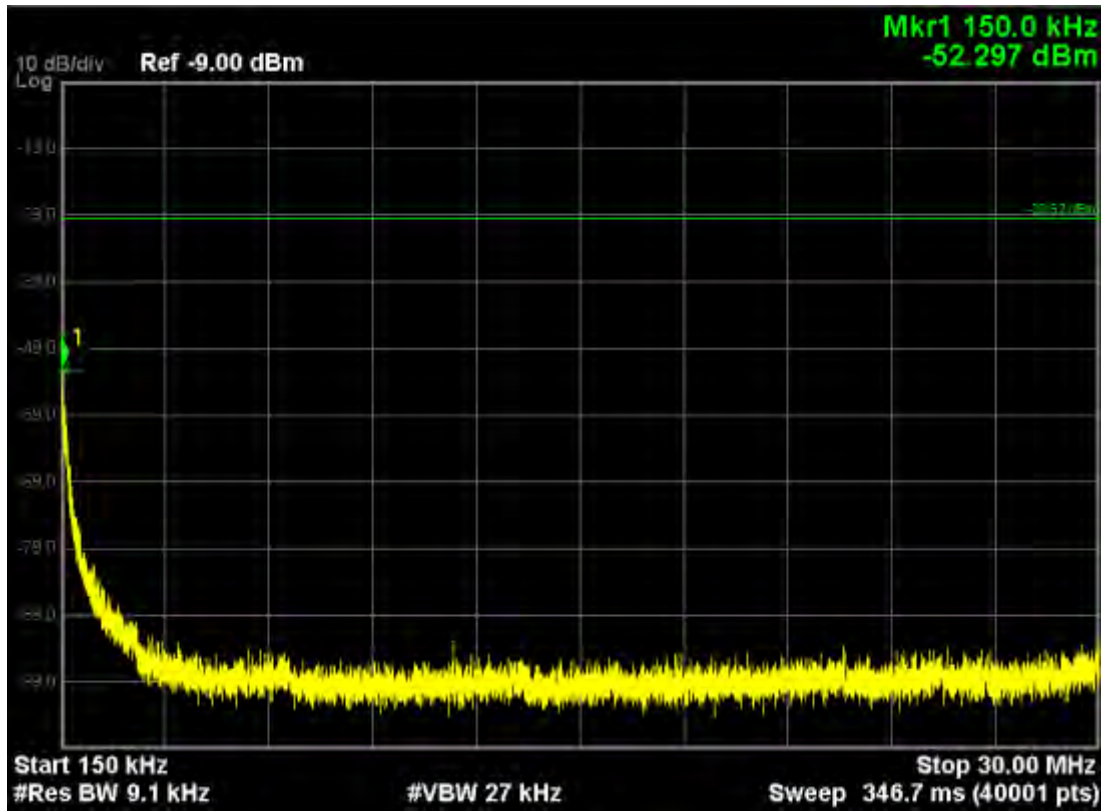


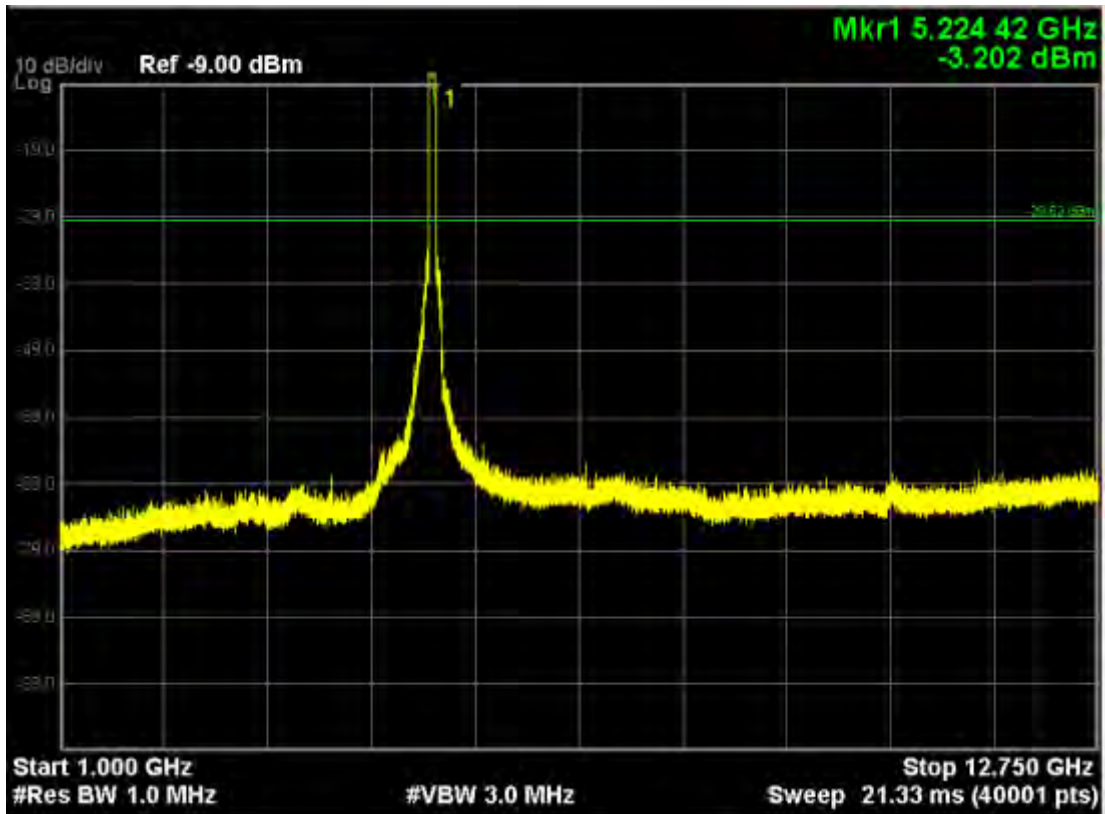
Note: The Mark1 point is carrier.



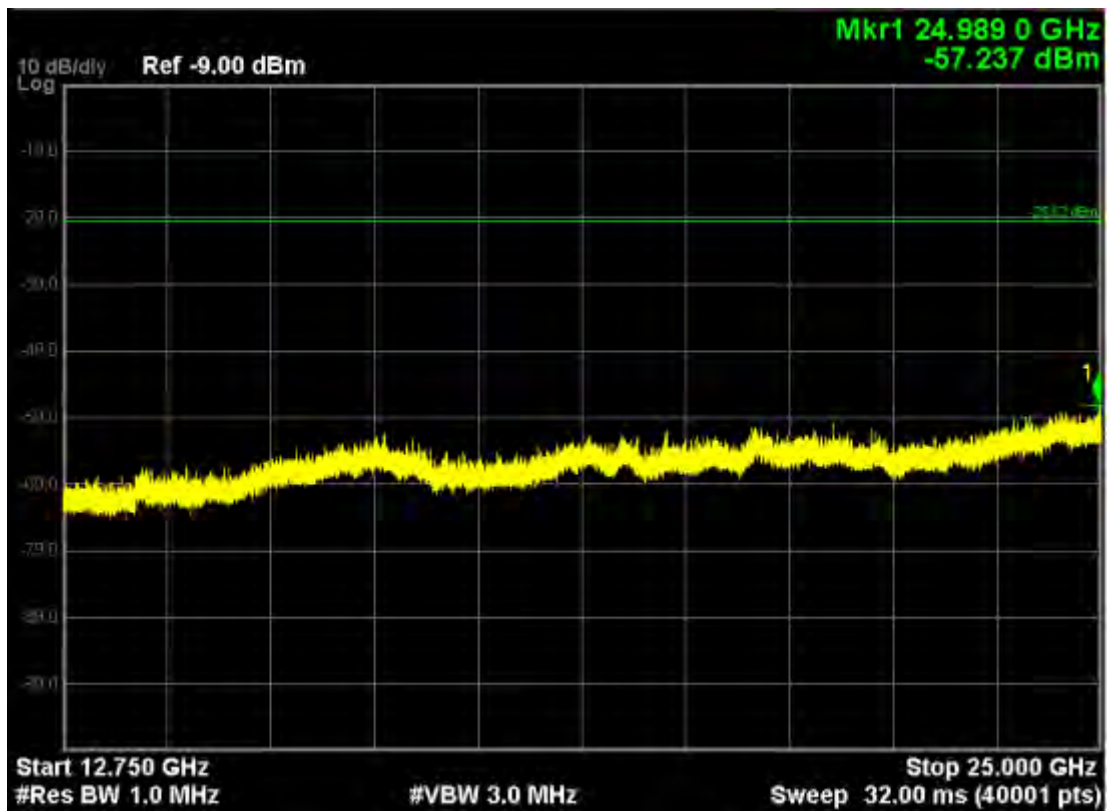
802.11n40, traffic mode; Channel 46(mimo)





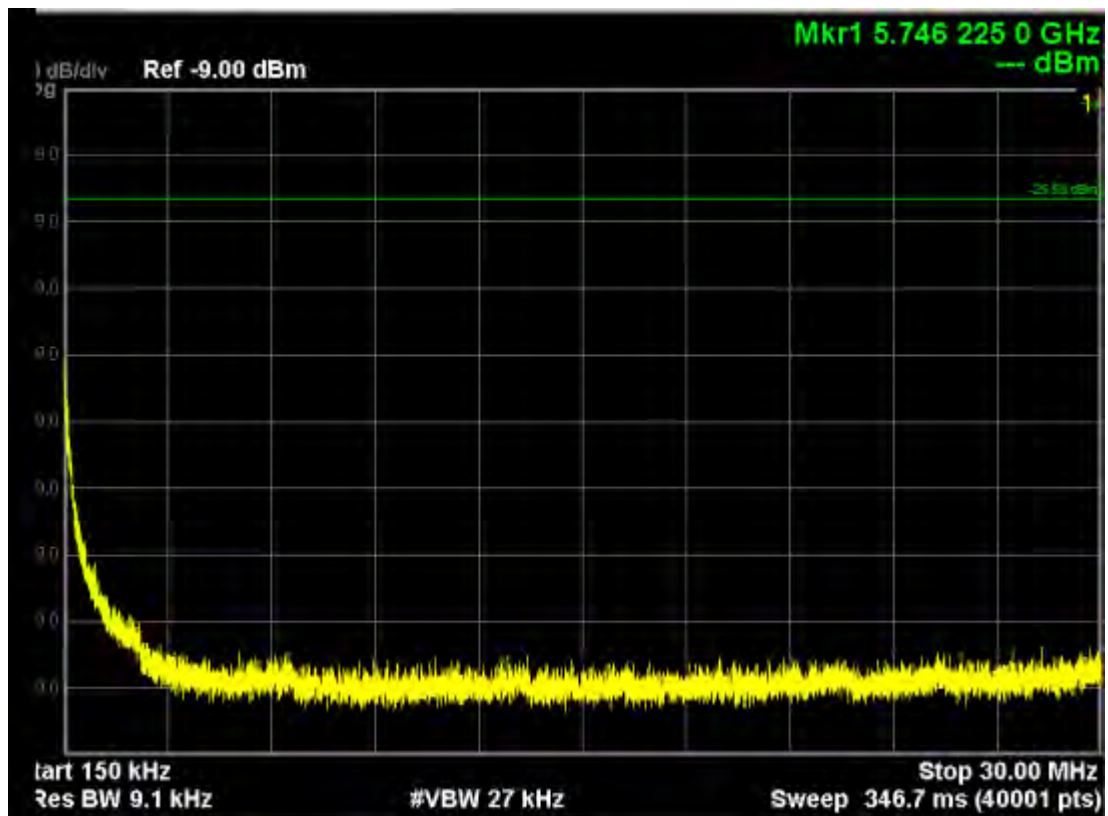
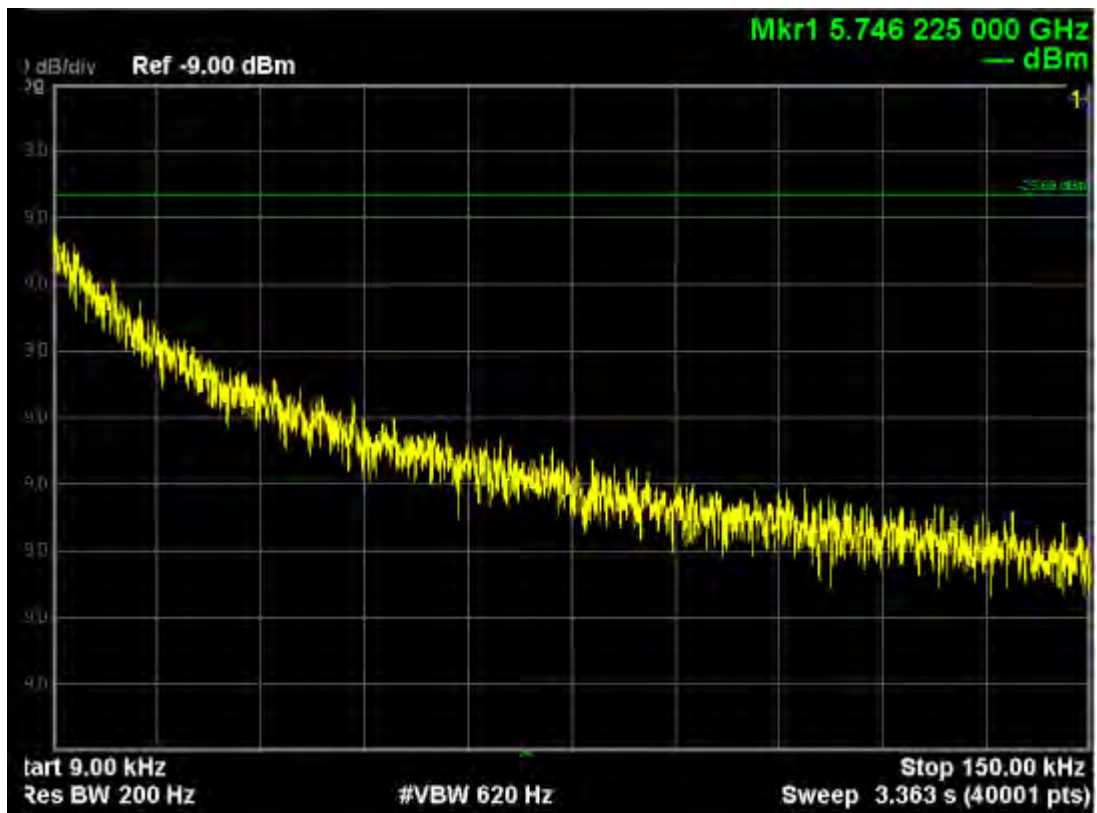


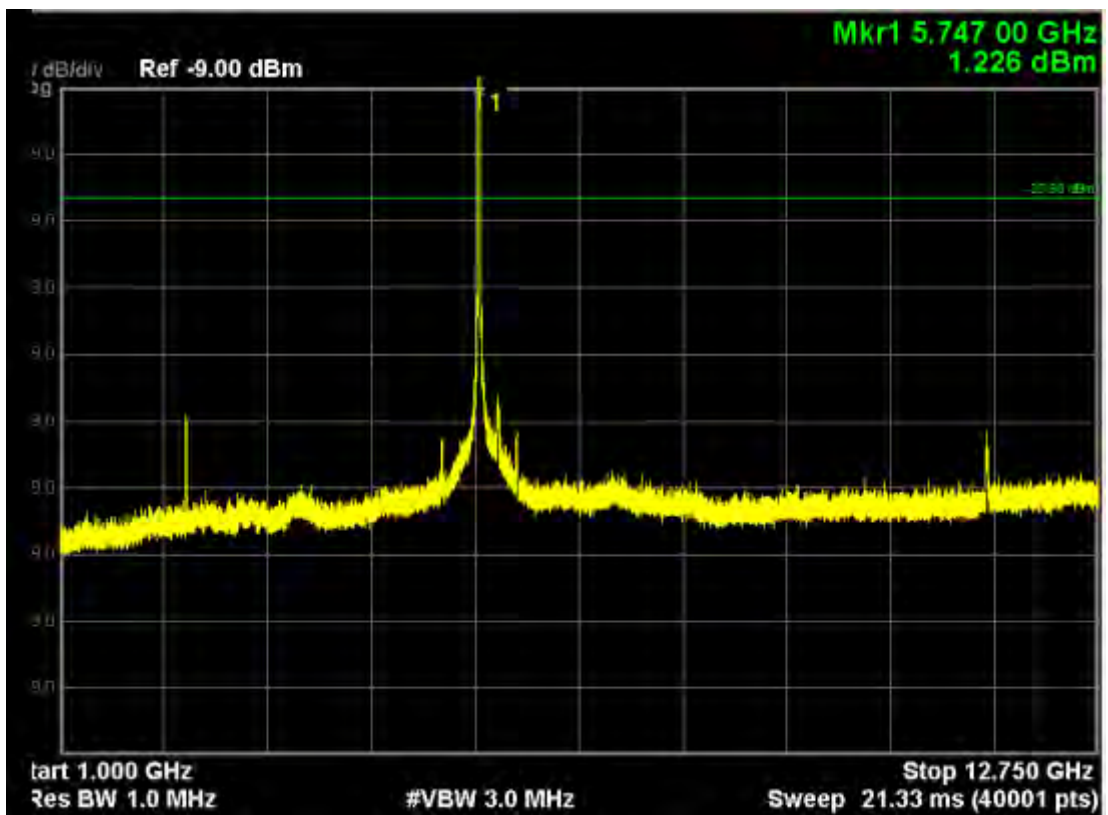
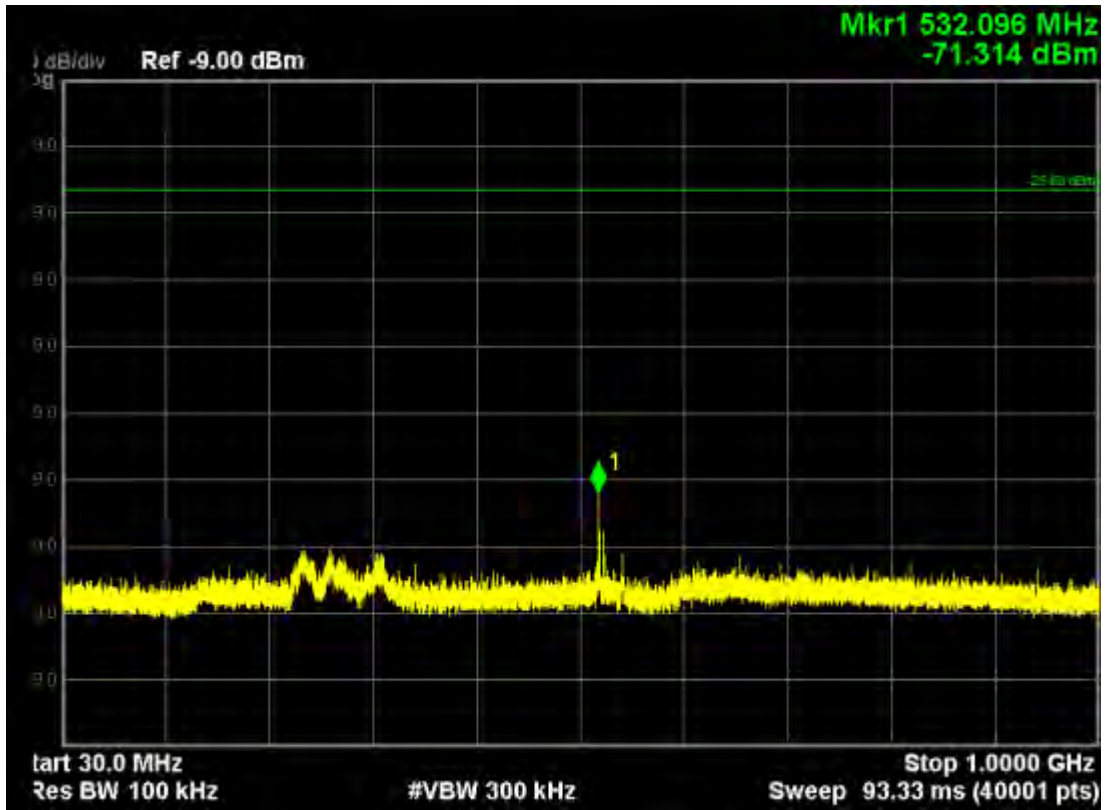
Note: The Mark1 point is carrier.



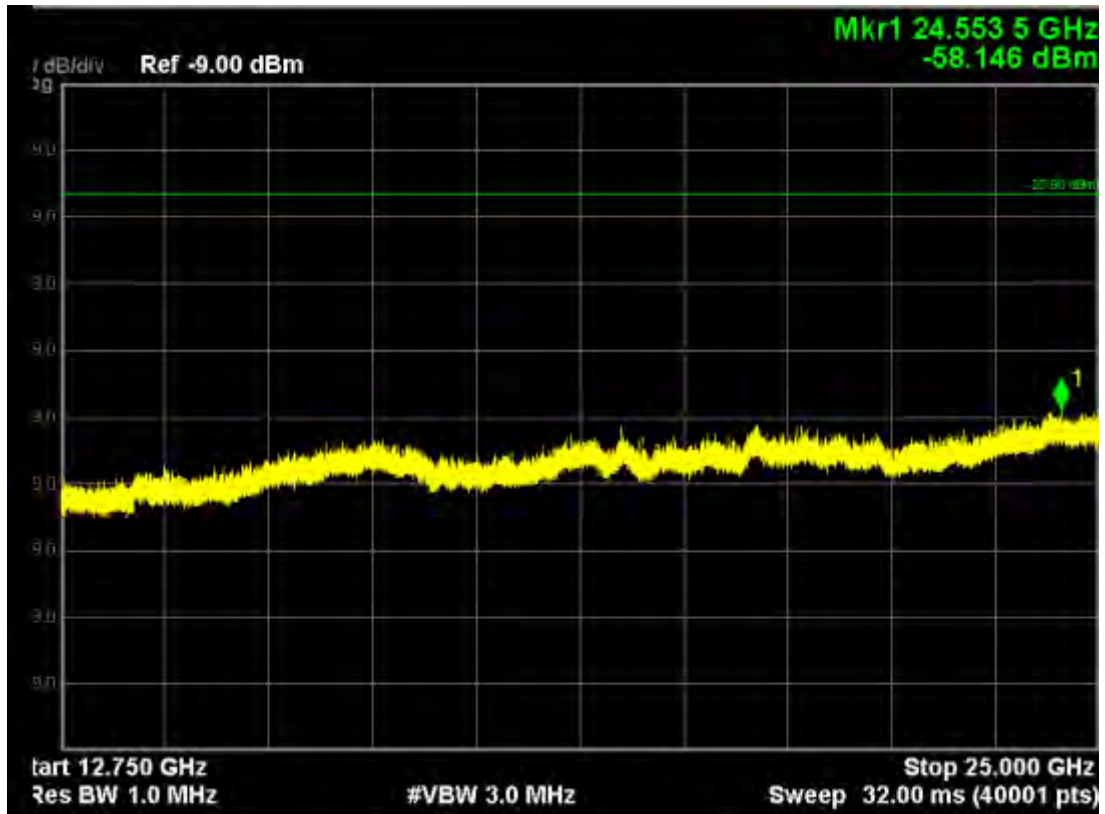
WIFI 5G(5725MHz-5850MHz)

802.11a, traffic mode; Channel 149





Note: The Mark1 point is carrier.



802.11a, traffic mode; Channel 157

