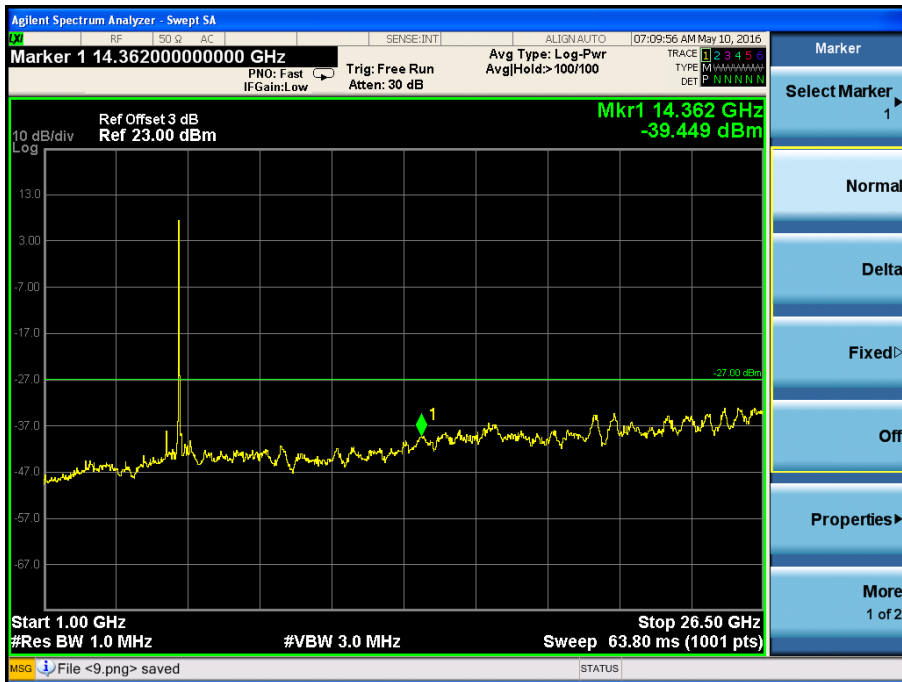
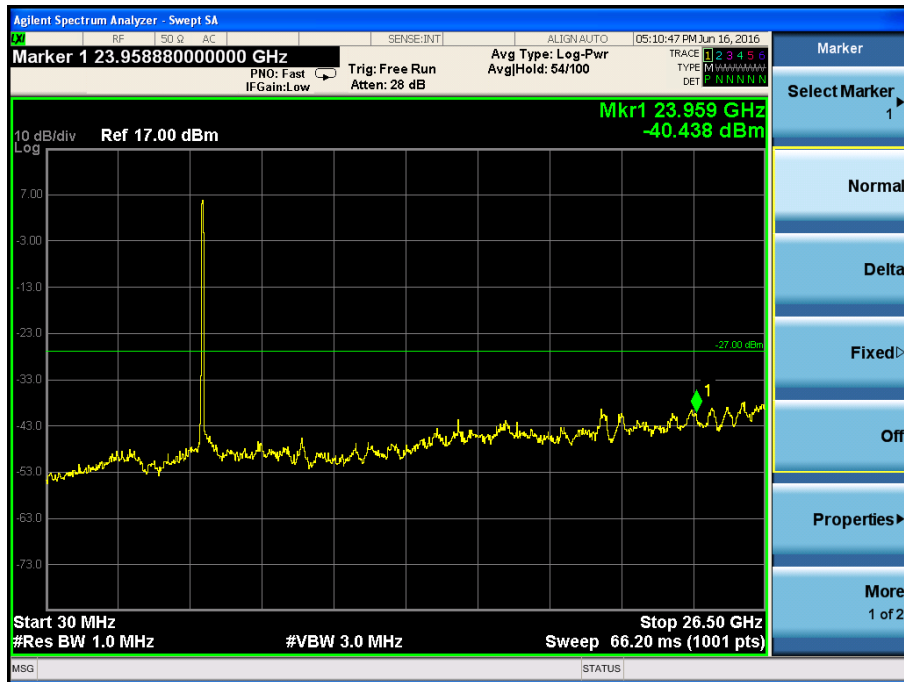


5755MHz

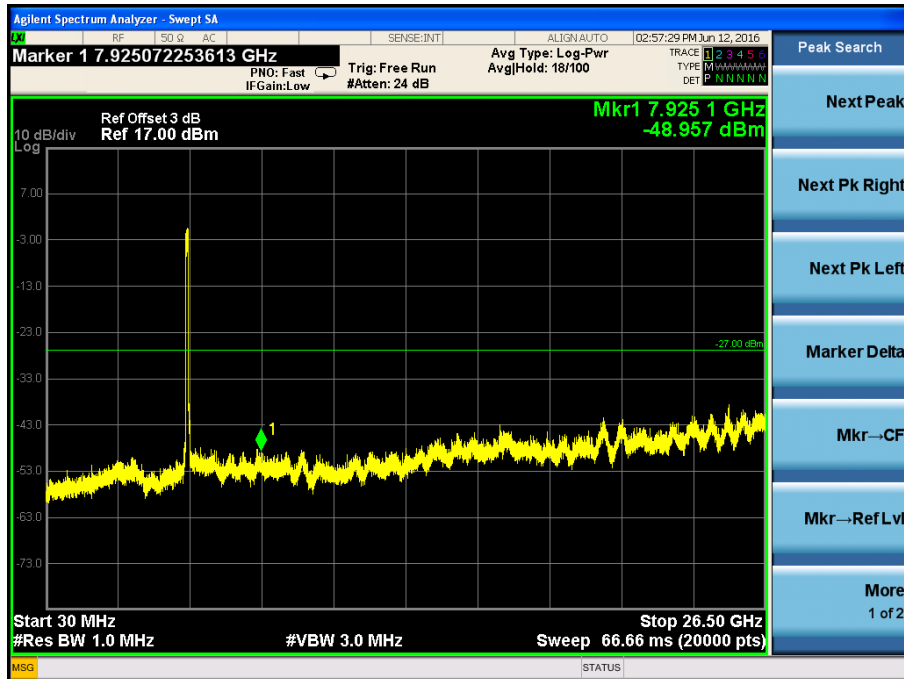


5795MHz

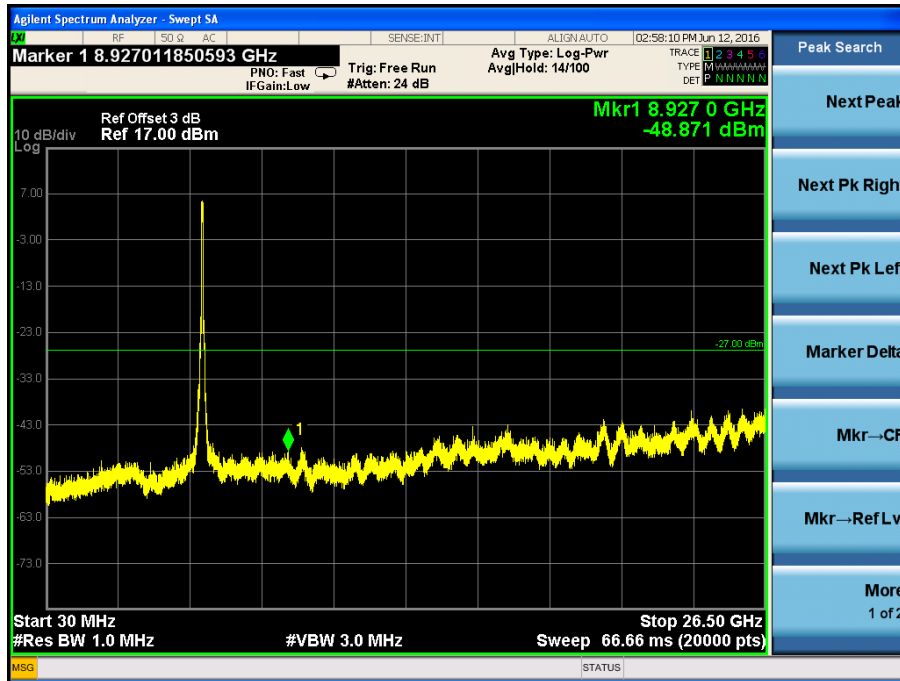


802.11ac80

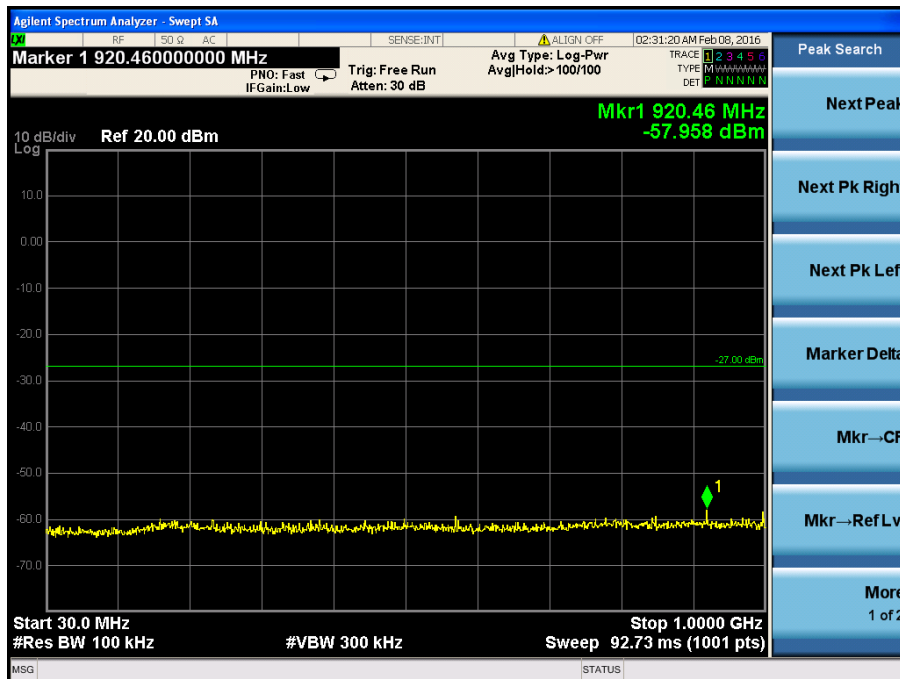
5210MHz

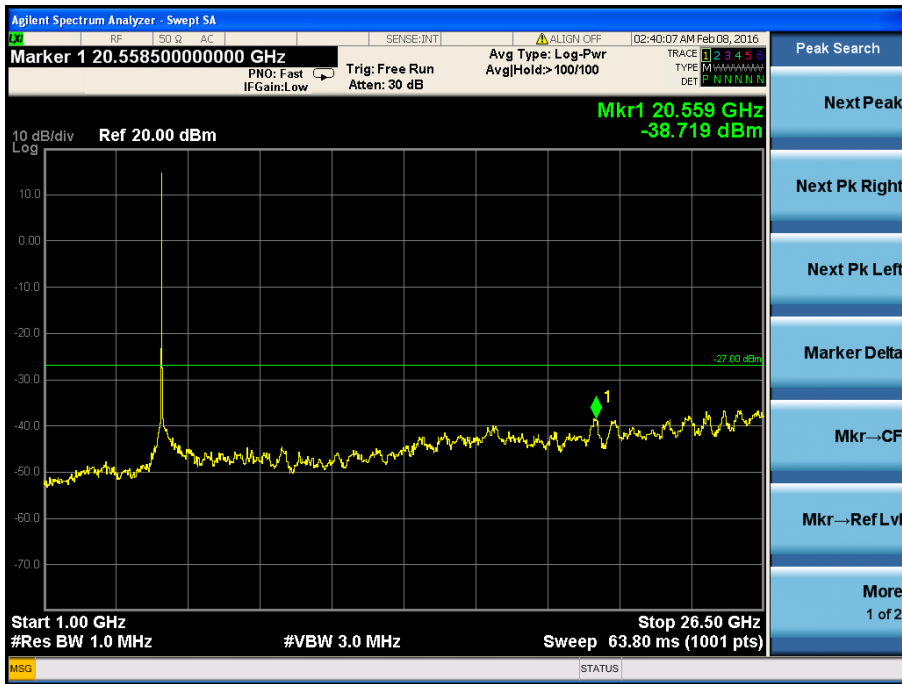


5775MHz

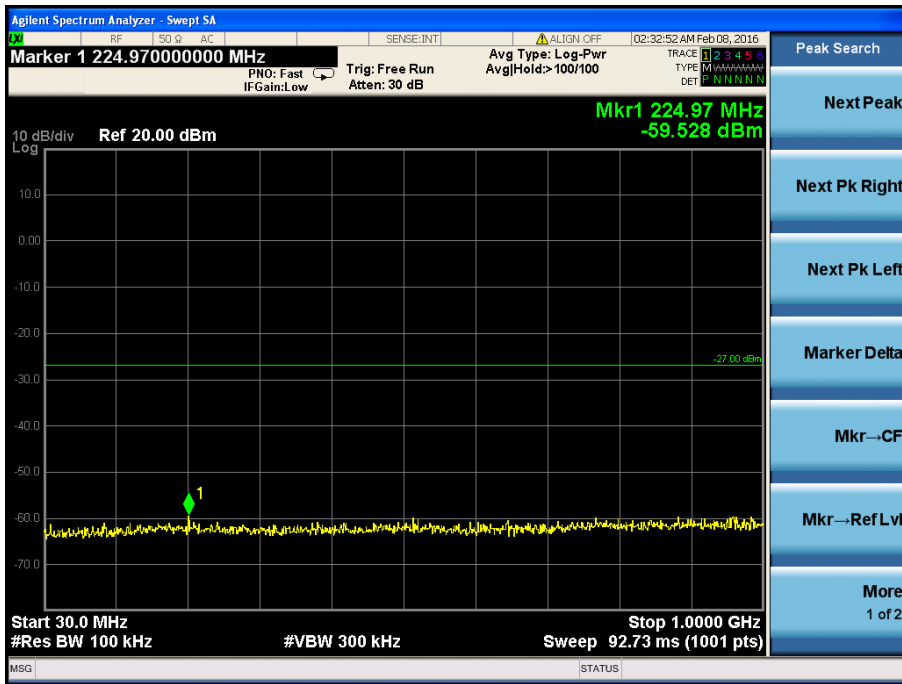


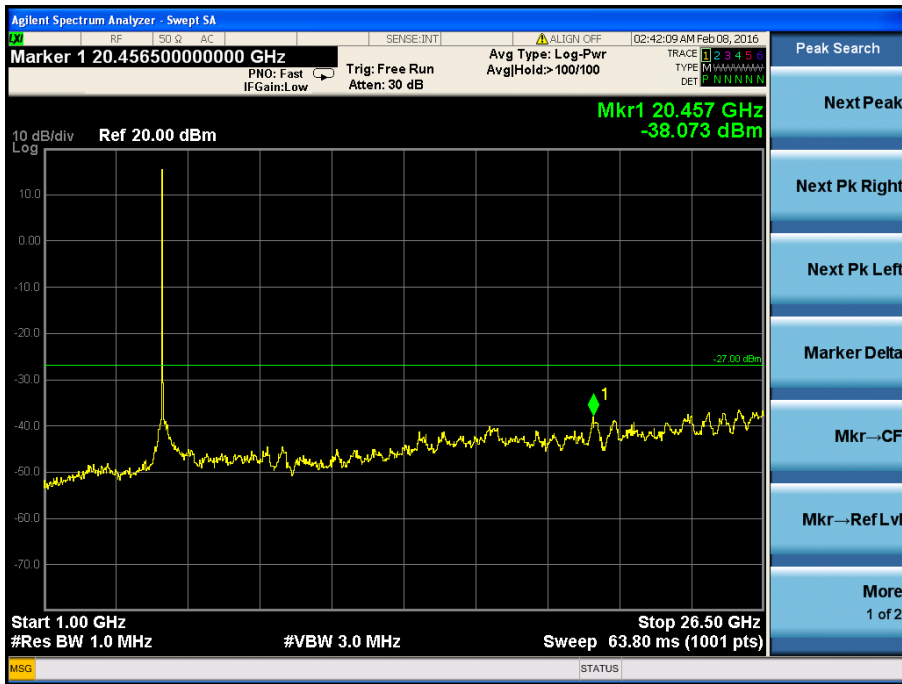
Antenna 2  
802.11a  
5180MHz



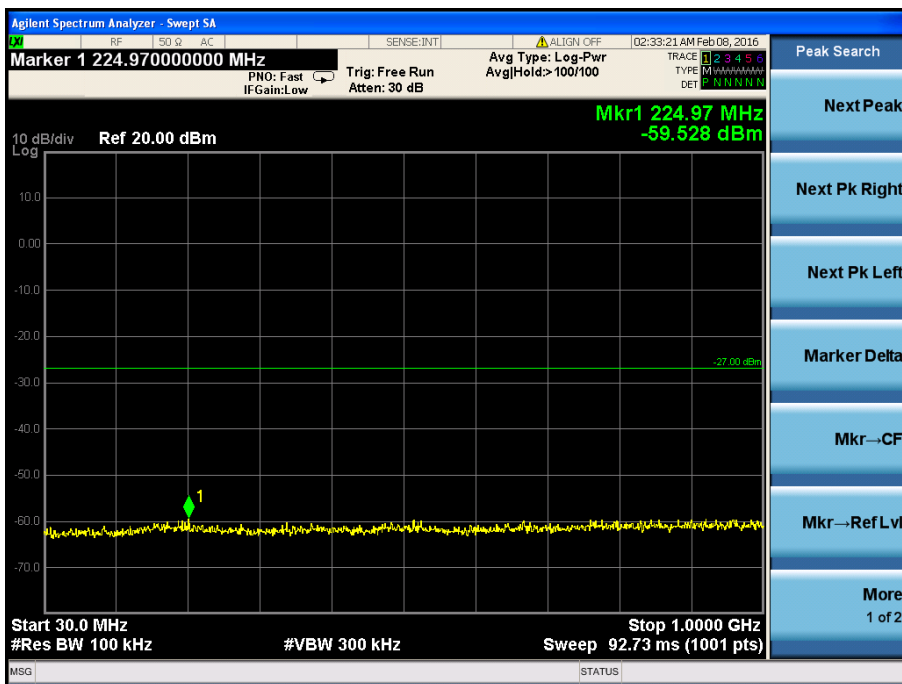


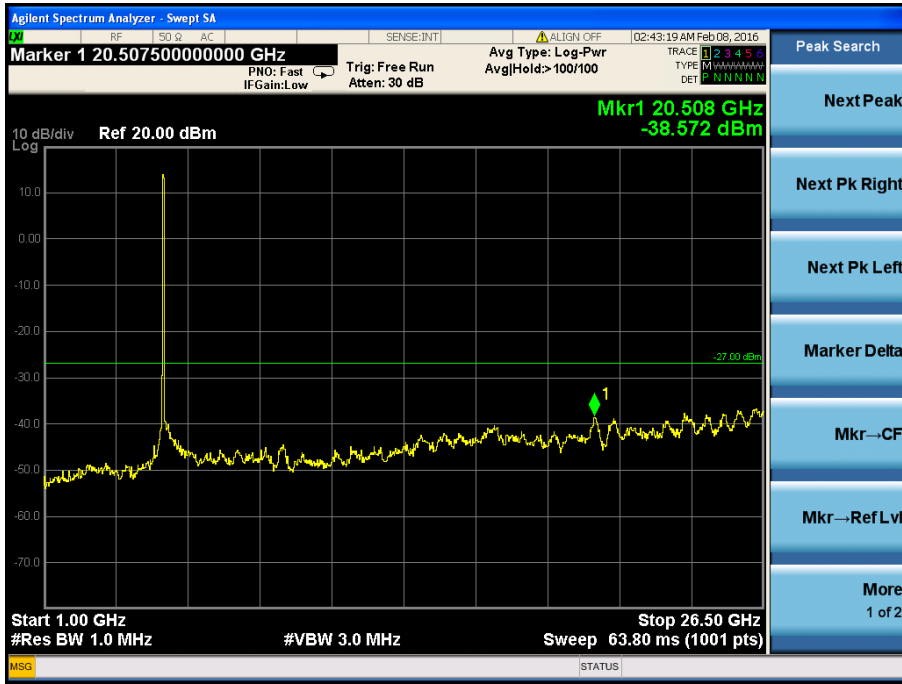
5200MHz



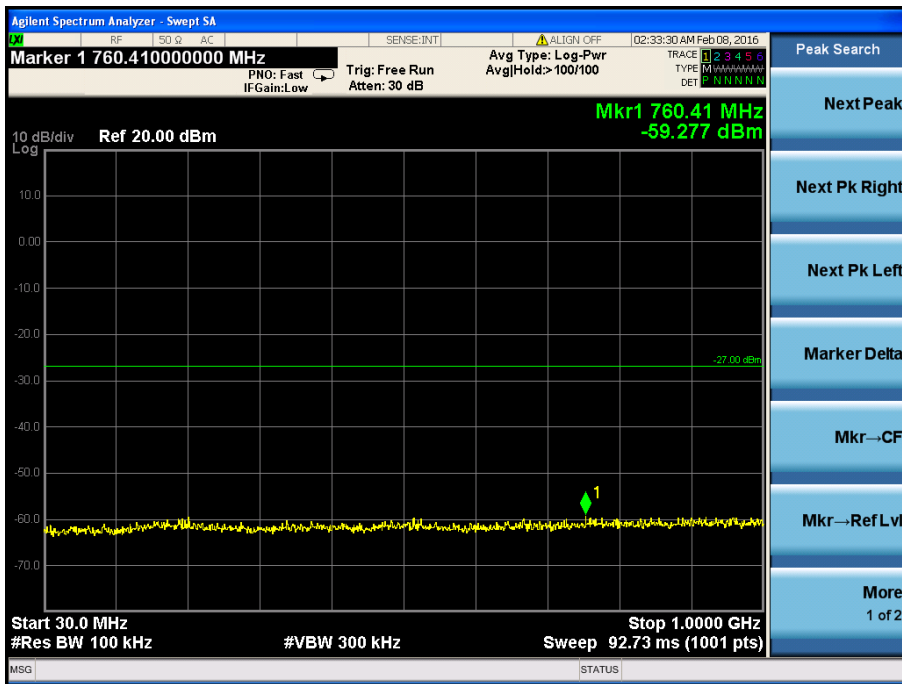


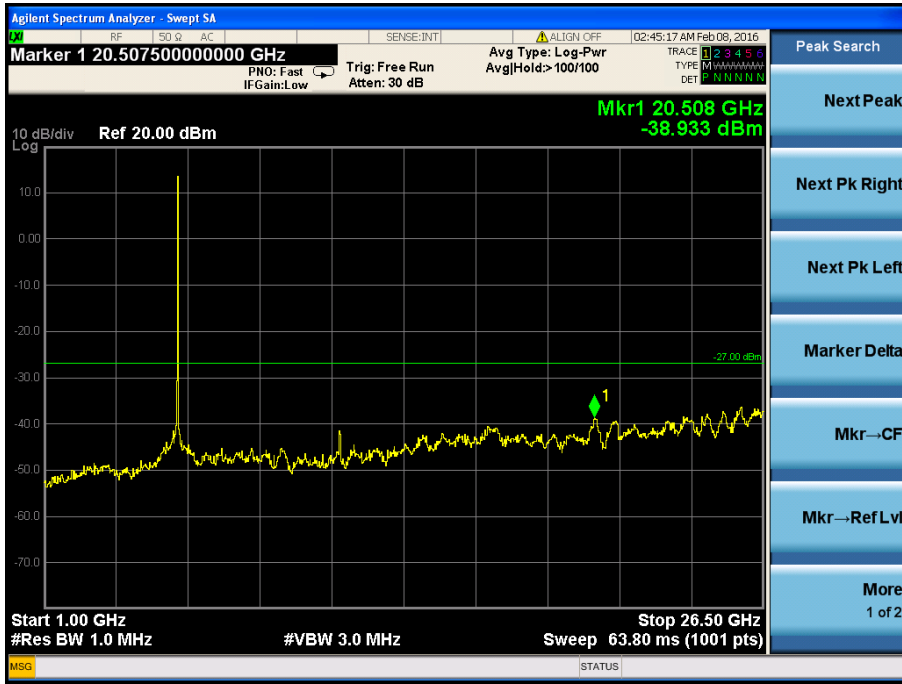
5240MHz



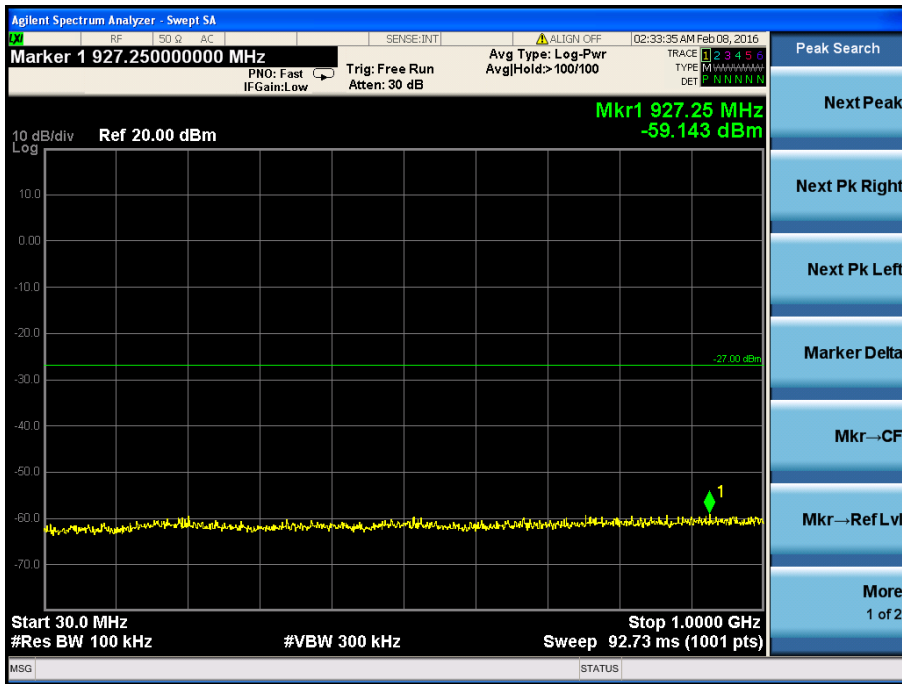


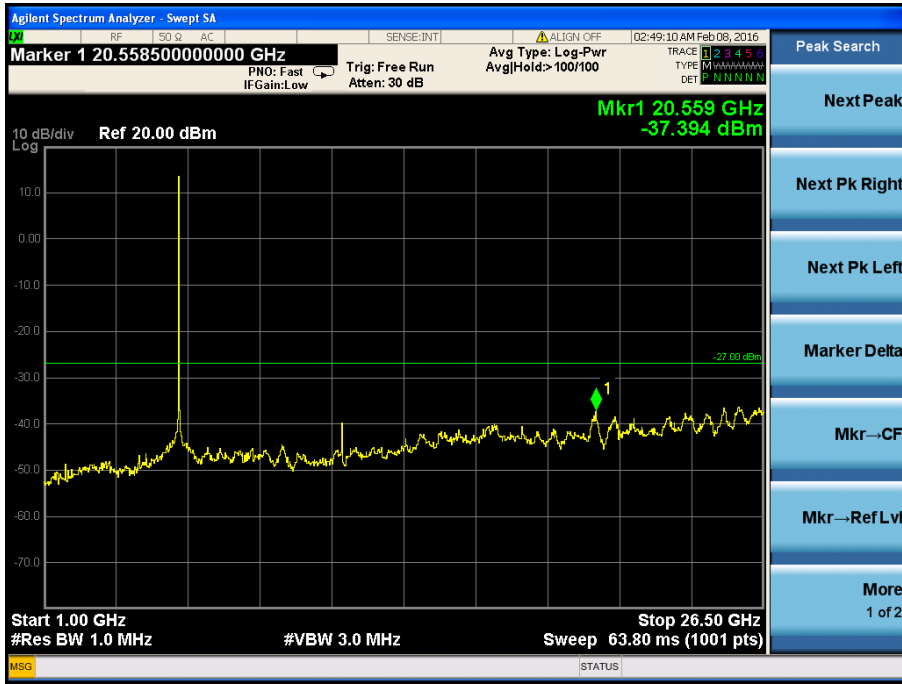
5745MHz



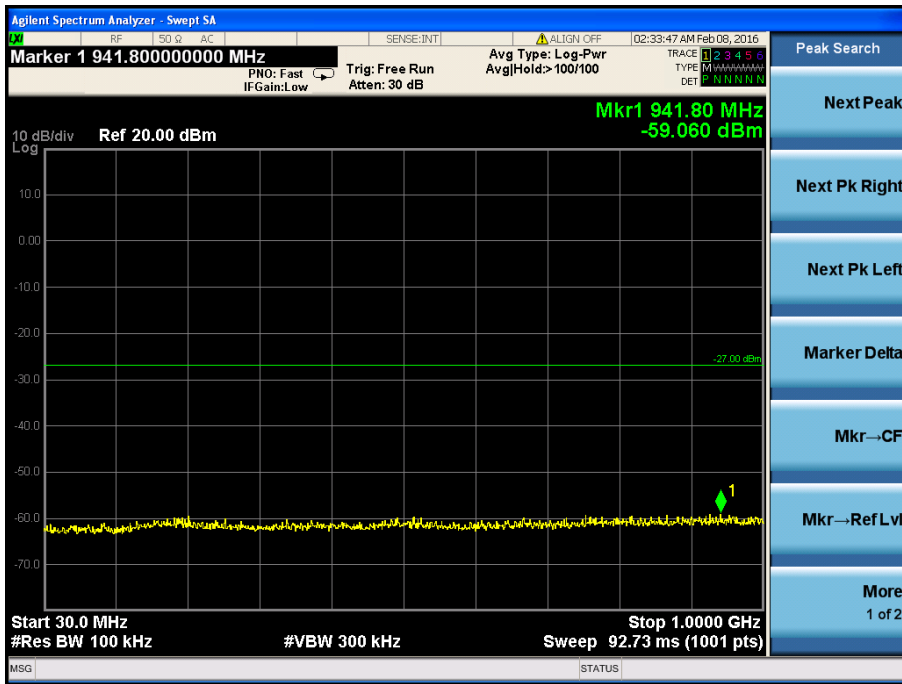


5785MHz

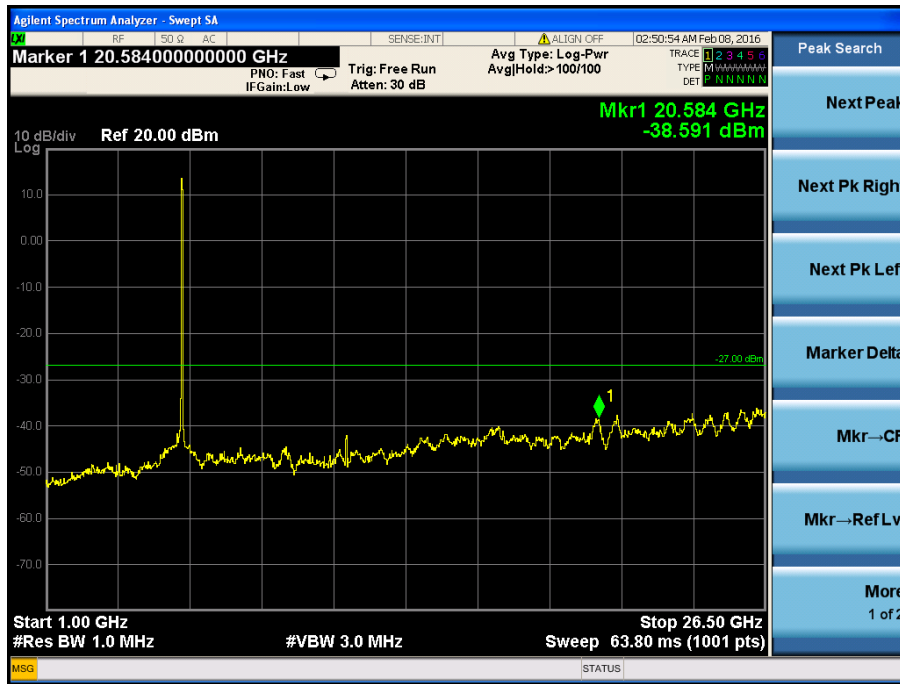




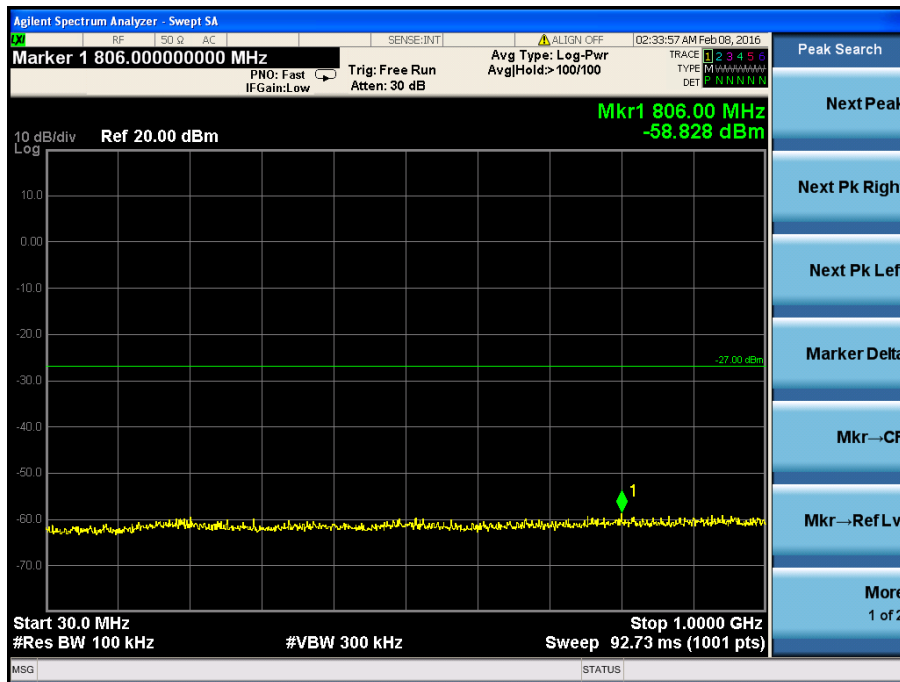
5825MHz

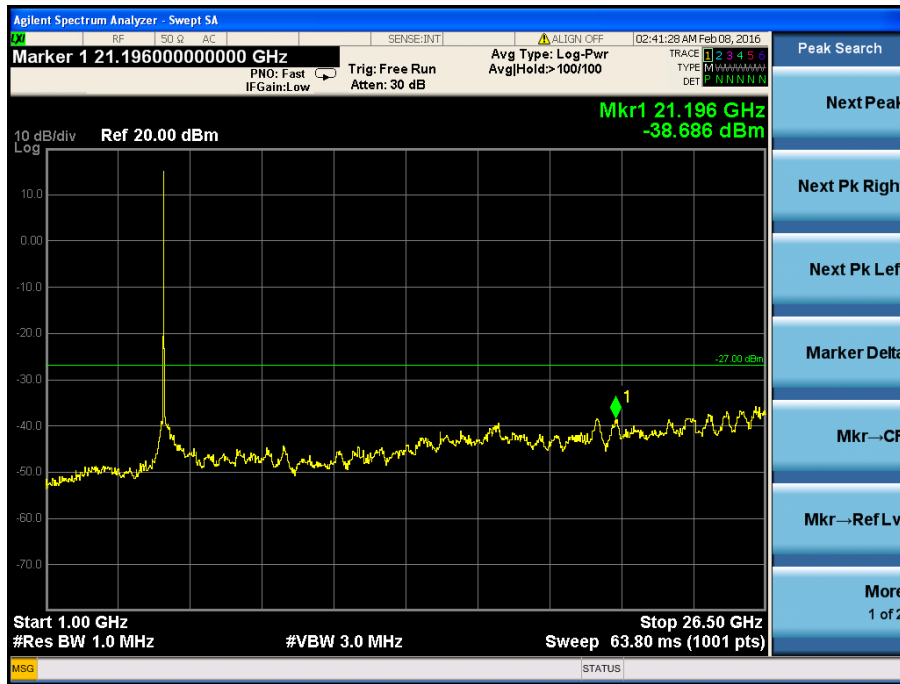




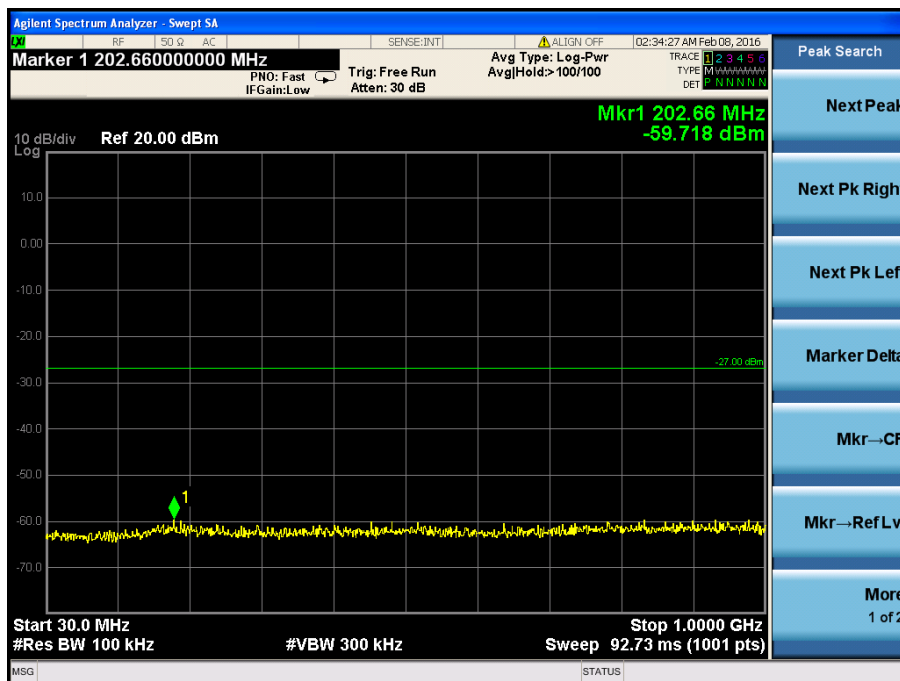


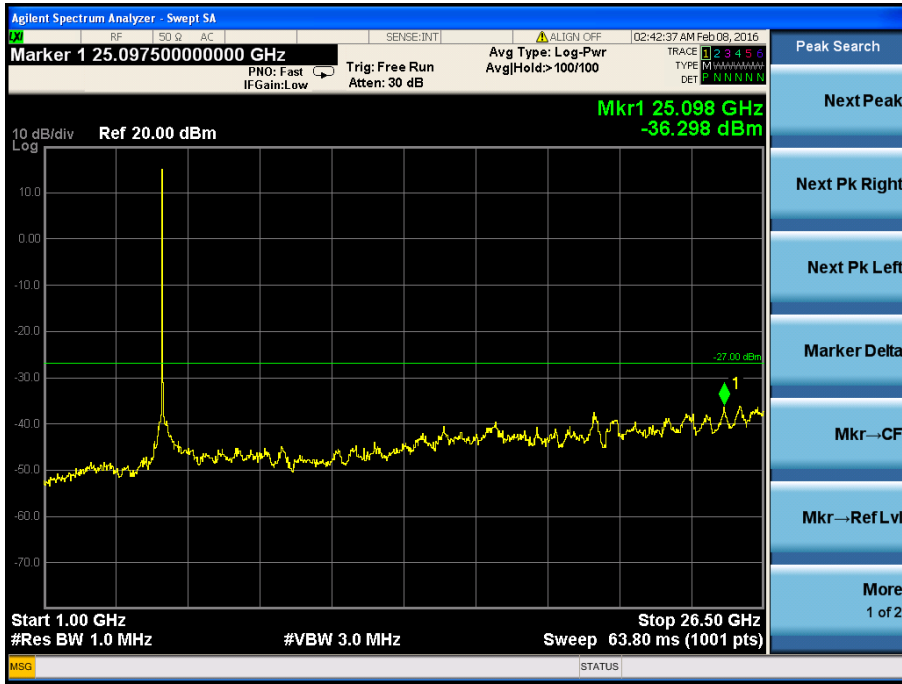
802.11n HT20  
5180MHz



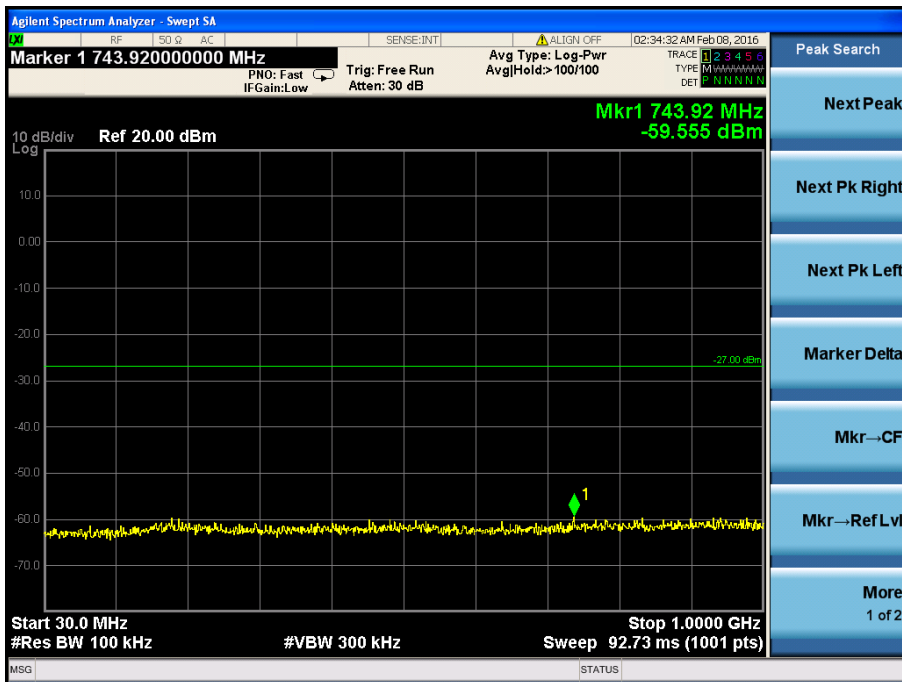


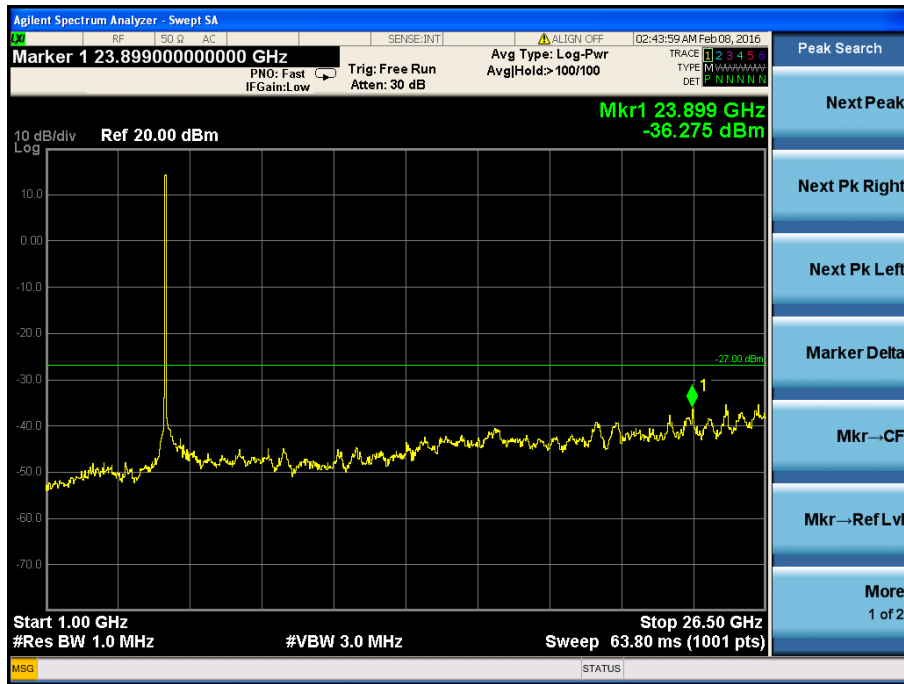
5200MHz



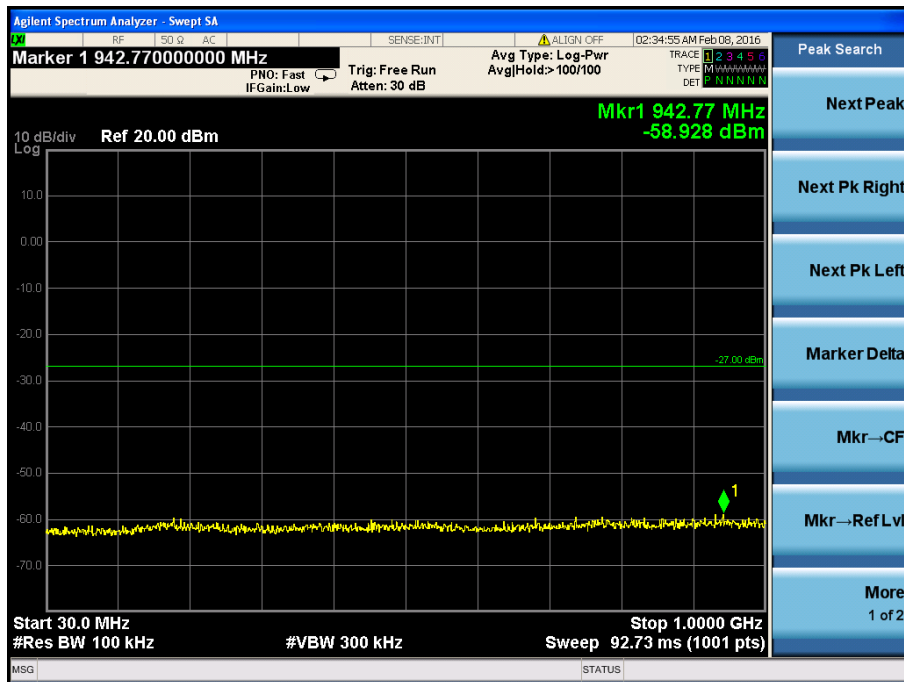


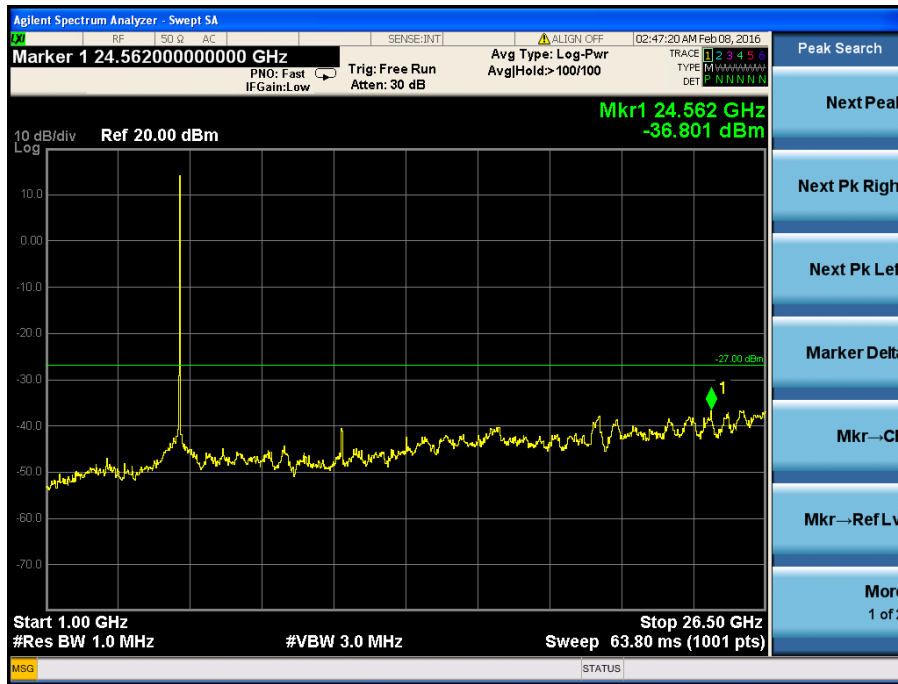
5240MHz



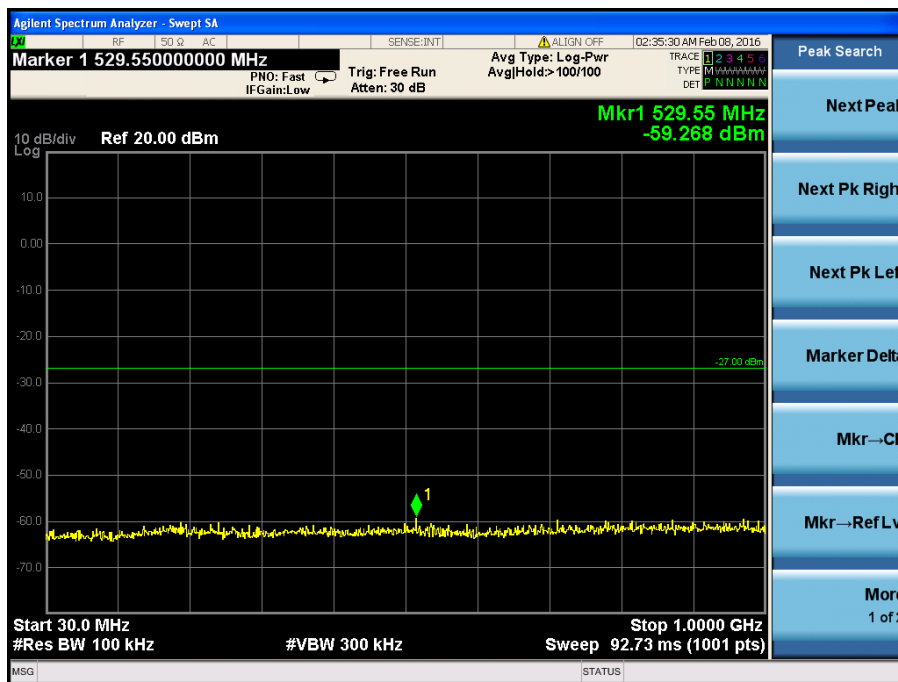


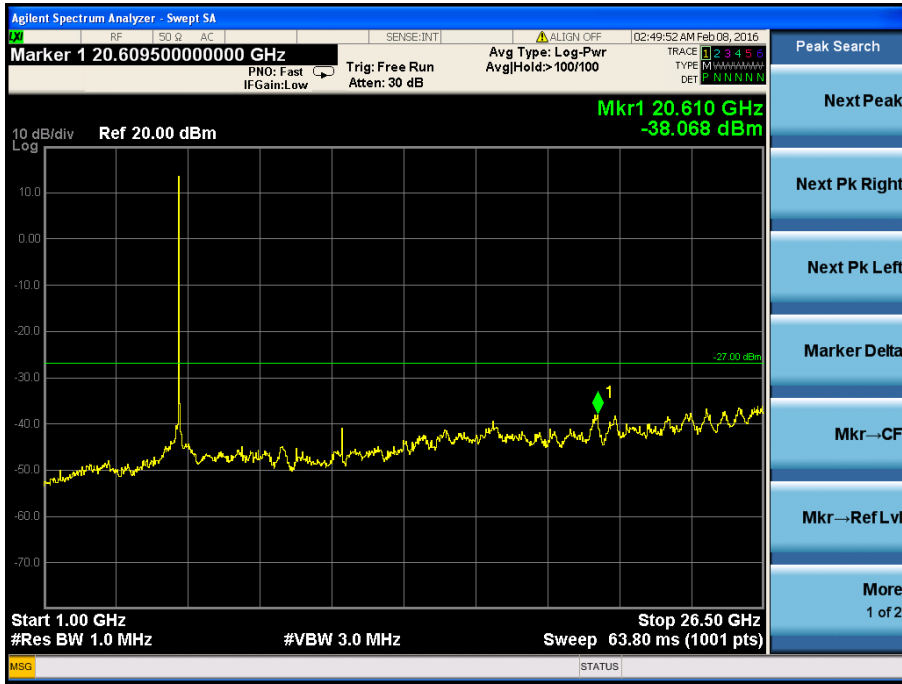
5745MHz



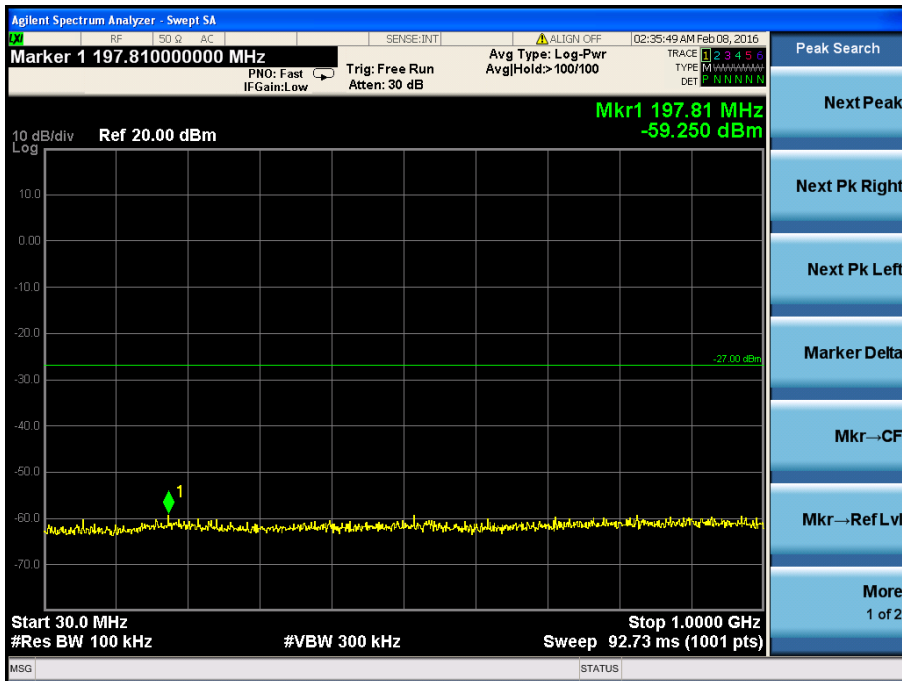


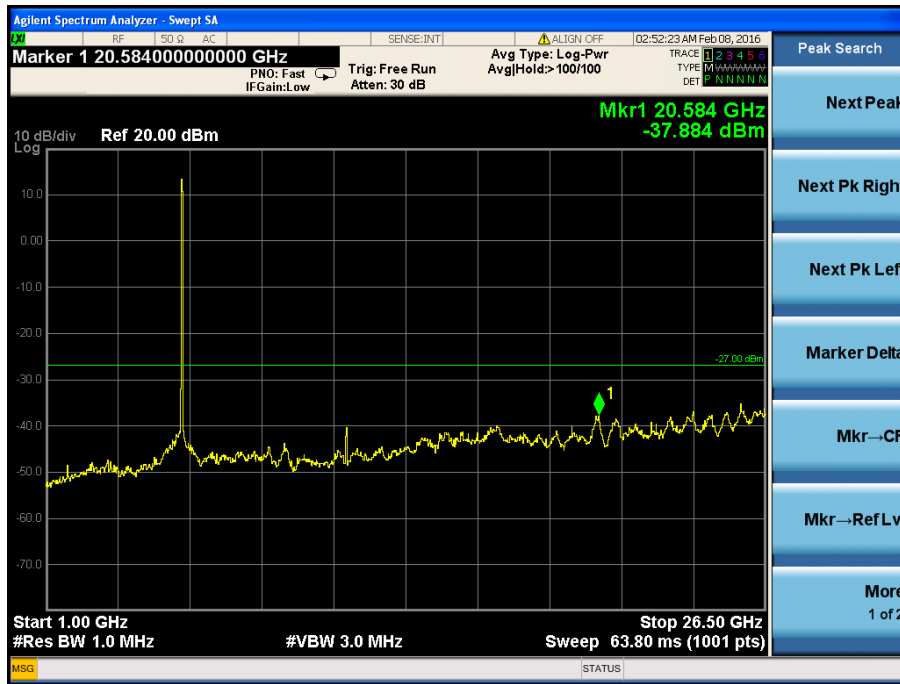
5785MHz



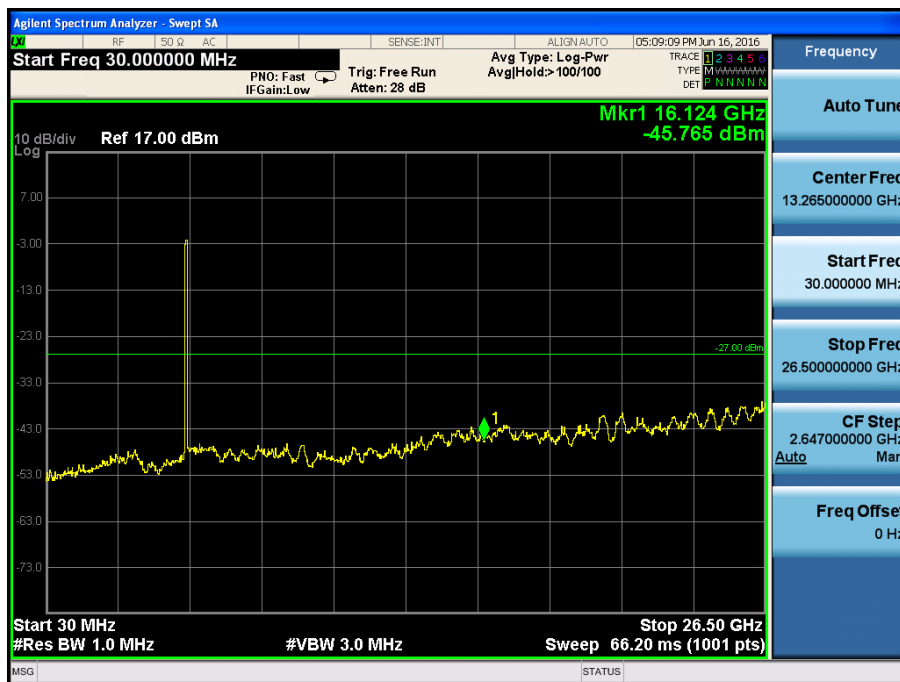


5825MHz





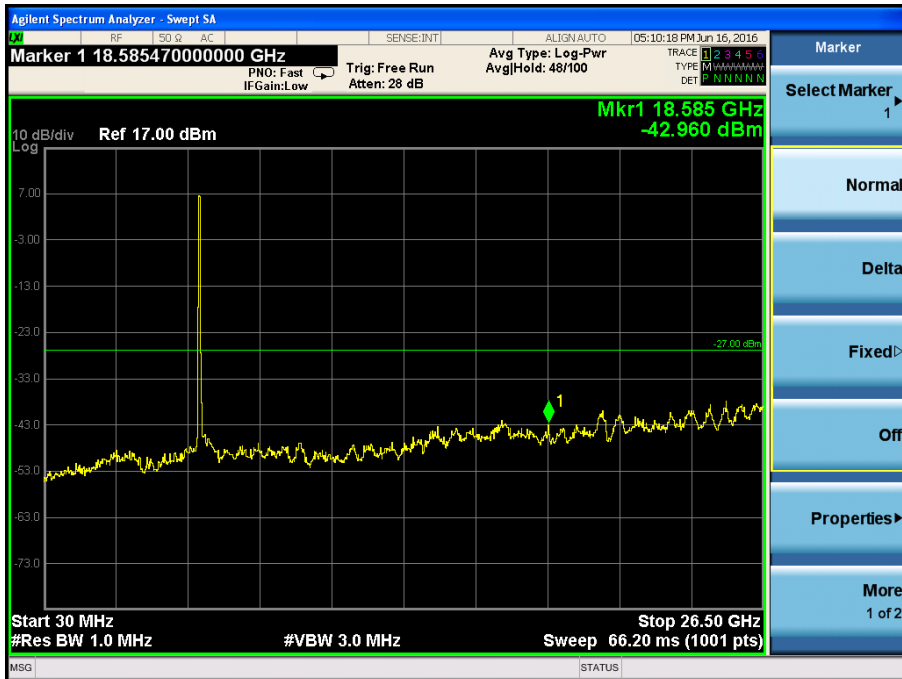
802.11n-HT40  
5190MHz



5230MHz

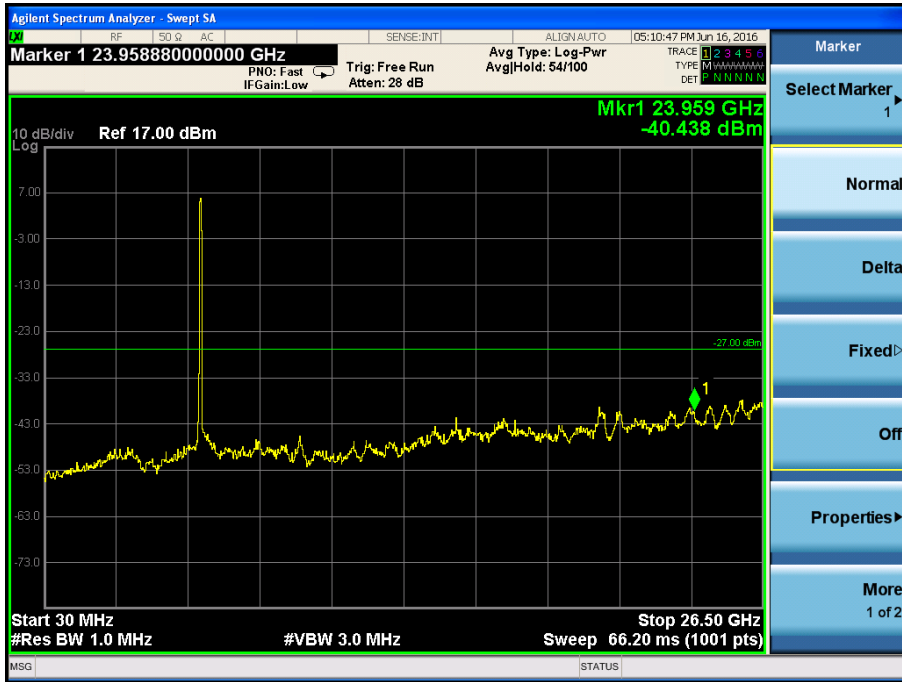


5755MHz

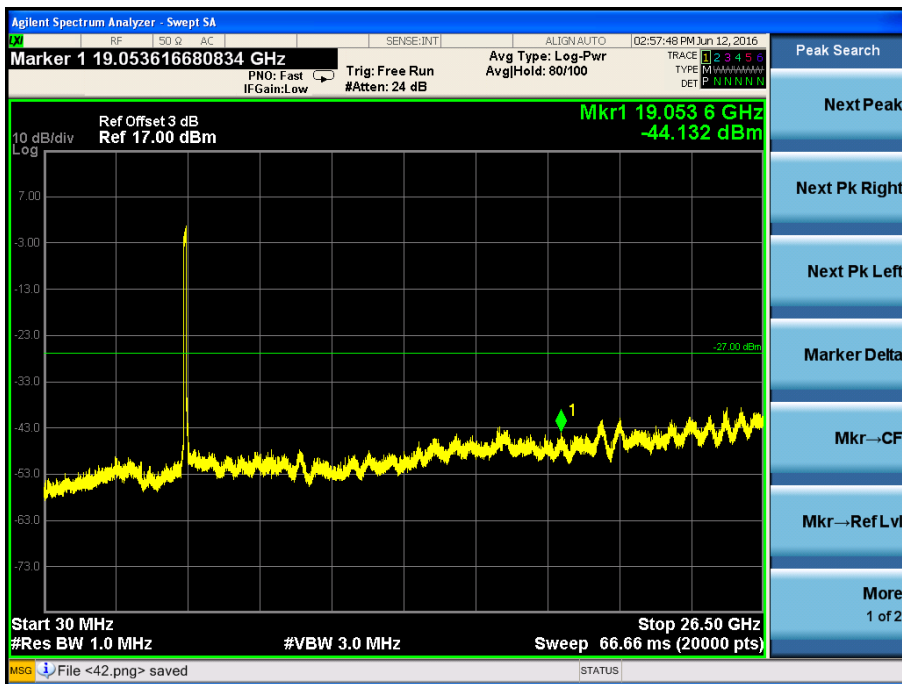




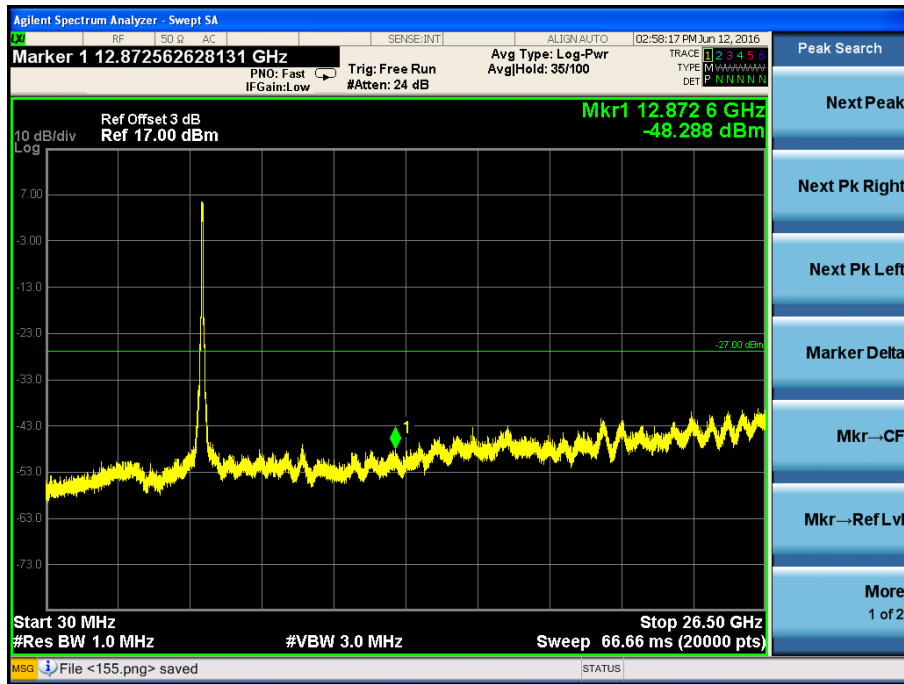
5795MHz



802.11ac80  
5210MHz



5775MHz



## 9. Radiated Spurious Emissions

### 9.1 Measurement Uncertainty

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement is  $\pm 5.10$  dB.

### 9.2 Standard Applicable

According to §15.407(b)(6), Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.

According to §15.407(b)(7), The provisions of §15.205 apply to intentional radiators operating under this section. 789033 D02 General UNII Test Procedures New Rules v01

If radiated measurements are performed, field strength is then converted to EIRP as follows:

$$\text{EIRP} = ((E \cdot d)^2) / 30$$

where:

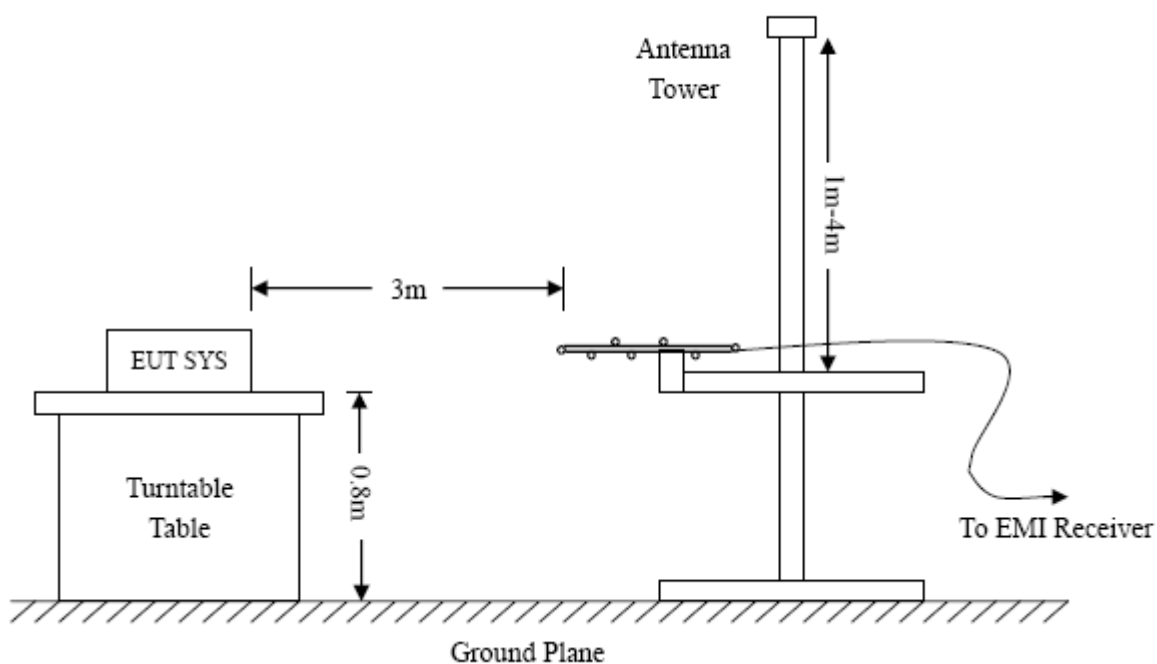
- E is the field strength in V/m;
- d is the measurement distance in meters;
- EIRP is the equivalent isotropically radiated power in watts.

### 9.3 Test Procedure

The setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the FCC Part 15.205 15.407(b)(6) and FCC Part 15.209 Limit..

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.



### 9.4 Test Receiver Setup

During the radiated emission test for above 1GHz, the test receiver was set with the following configurations:

For peak detector:

RBW = 1000kHz, VBW = 3000kHz, Sweep Time = Auto

For average detector:

RBW = 1000kHz, VBW = 10Hz, Sweep Time = Auto

### 9.5 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Ant. Factor} + \text{Cable Loss} - \text{Ampl. Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dB $\mu$ V means the emission is 6dB $\mu$ V below the maximum limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15 Limit}$$

### 9.6 Environmental Conditions

Temperature:	22° C
Relative Humidity:	52%
ATM Pressure:	1012 mbar

### 9.7 Summary of Test Results/Plots

According to the data below, the FCC Part 15.205, 15.209 and 15.407(b)(6) standards, and had the worst margin of:

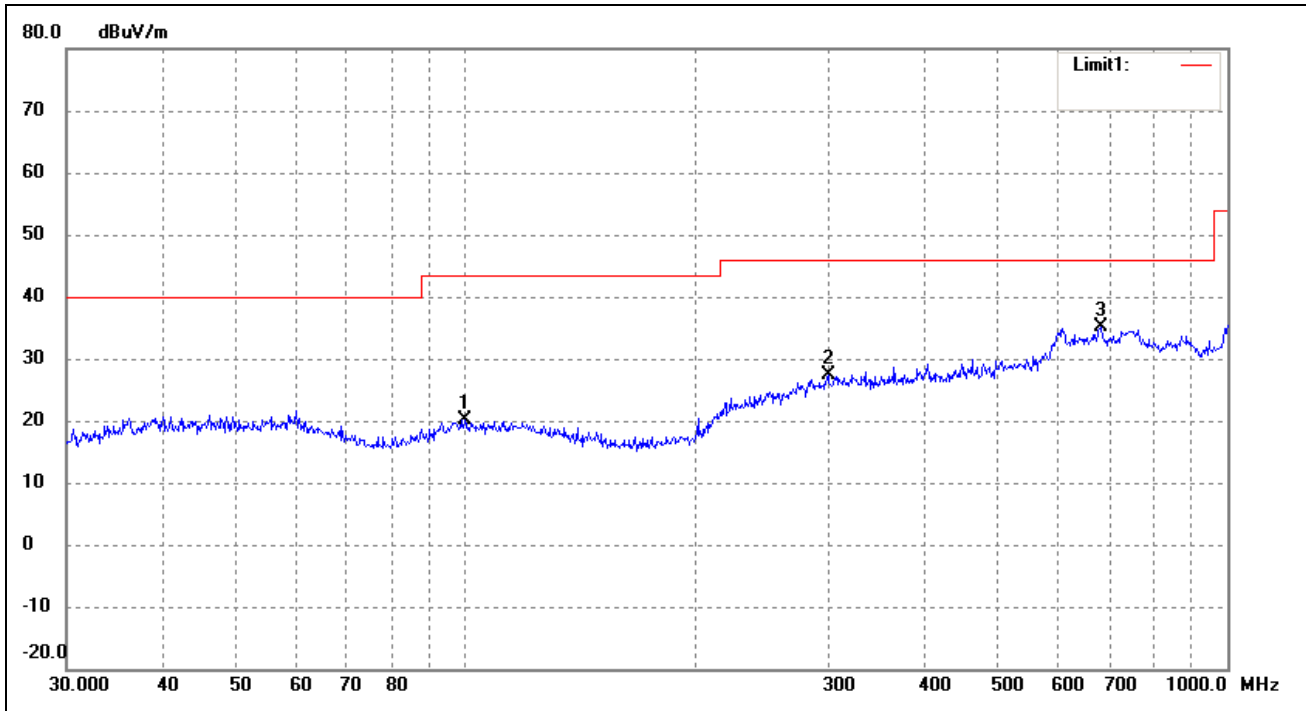
*Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.*

For 802.11a

Spurious Emission From 30 MHz to 1 GHz

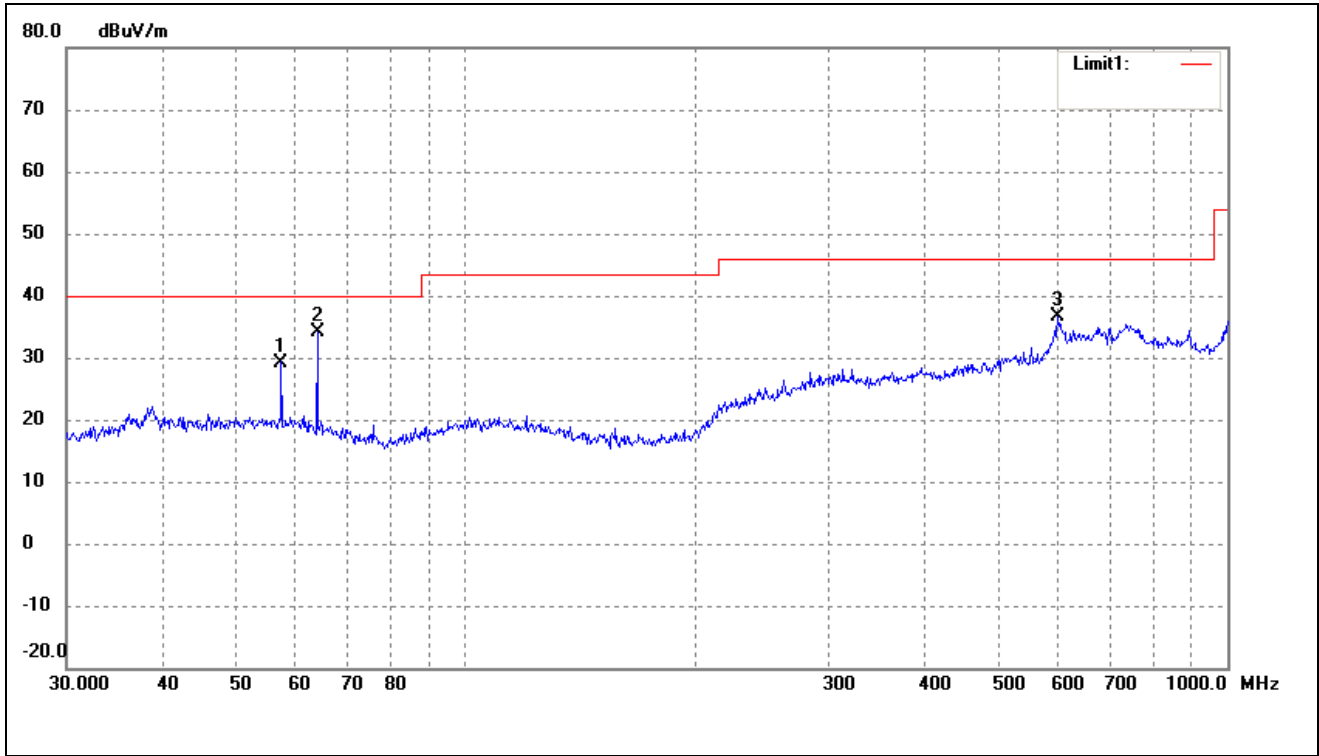
Test mode: Transmitting Channel 5180MHz

Horizontal



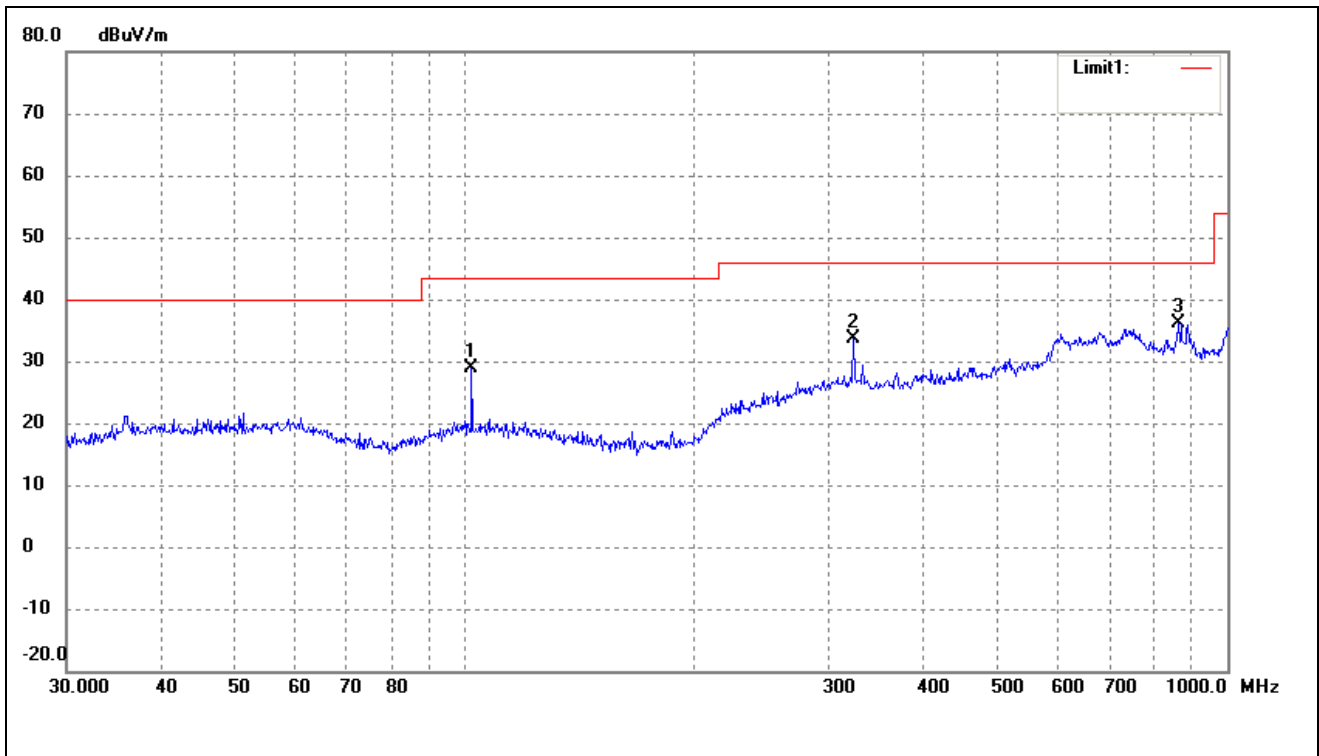
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	99.8777	15.14	5.11	20.25	43.50	-23.25	254	100	peak
2	299.3158	15.19	12.15	27.34	46.00	-18.66	100	100	peak
3	682.3485	15.96	19.08	35.04	46.00	-10.96	284	100	peak

Test Specification: Vertical



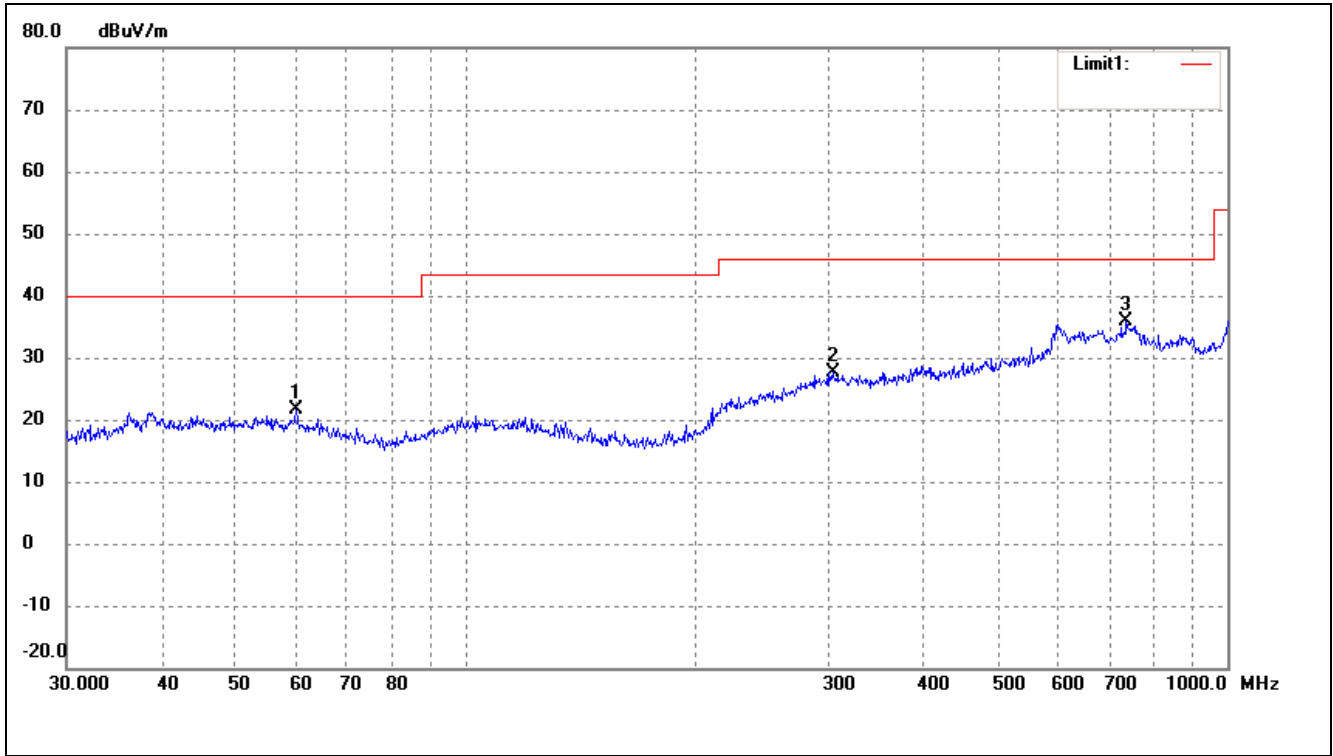
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	57.3923	23.91	5.34	29.25	40.00	-10.75	100	100	peak
2	63.9828	29.75	4.50	34.25	40.00	-5.75	100	100	peak
3	599.3213	17.38	19.19	36.57	46.00	-9.43	100	100	peak

Test mode: Transmitting Channel 5300MHz  
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	102.0014	23.77	5.11	28.88	43.50	-14.62	100	100	peak
2	323.3204	21.32	12.19	33.51	46.00	-12.49	100	100	peak
3	863.0562	18.82	17.38	36.20	46.00	-9.80	100	100	peak

Test Specification: Vertical

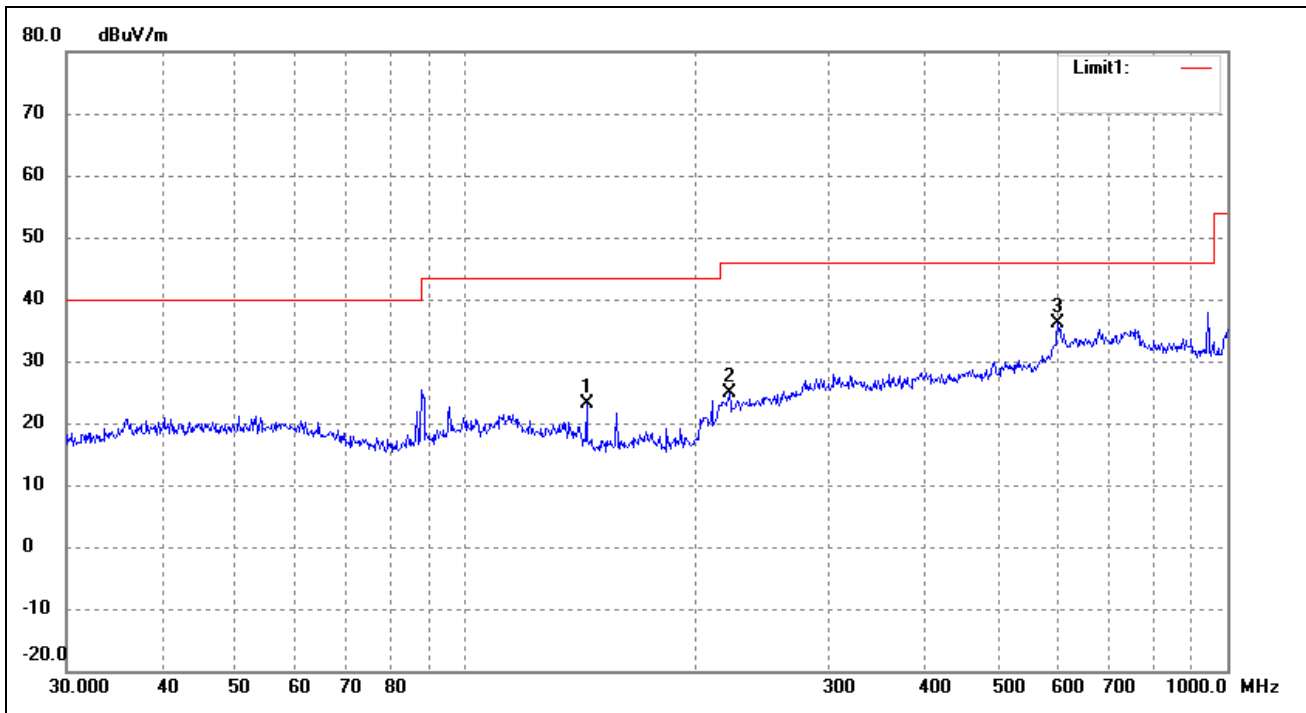


No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	60.0691	16.32	5.36	21.68	40.00	-18.32	256	100	peak
2	303.5437	15.45	12.19	27.64	46.00	-18.36	360	100	peak
3	737.0714	16.47	19.37	35.84	46.00	-10.16	360	100	peak



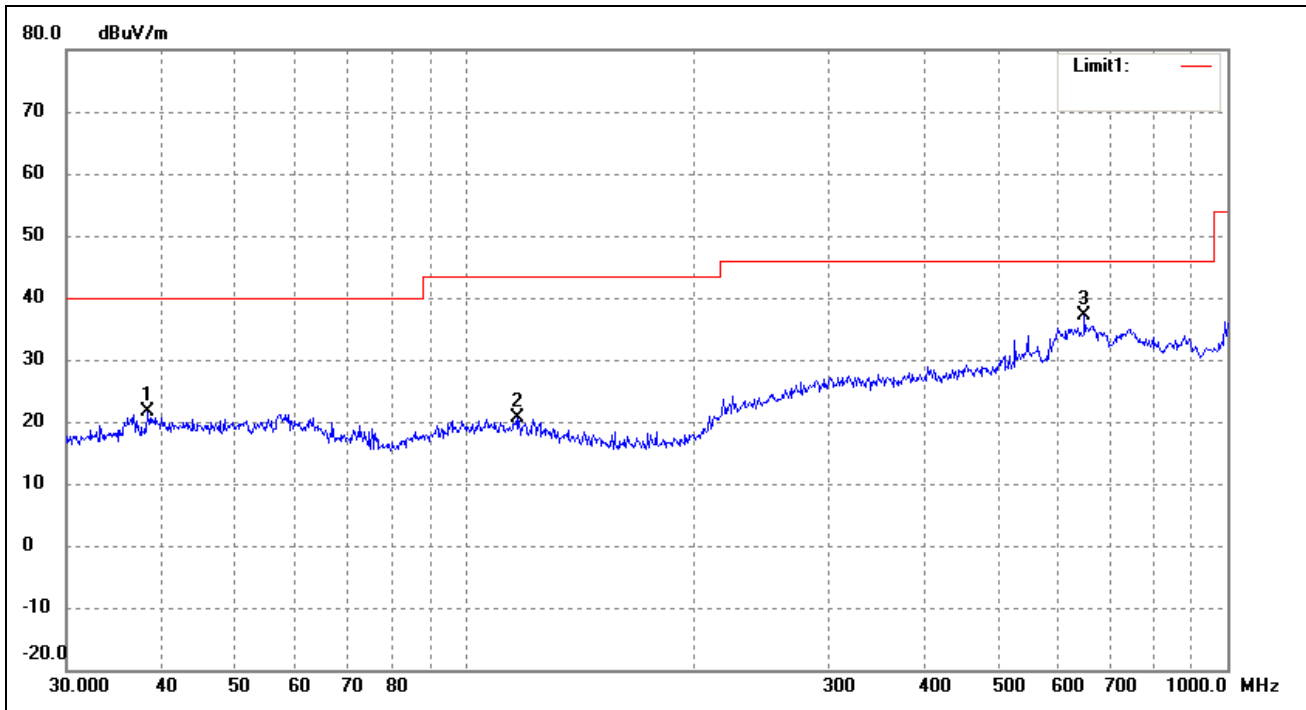
Test mode: Transmitting Channel 5580MHz

Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	144.3348	19.88	3.23	23.11	43.50	-20.39	176	100	peak
2	222.1698	16.68	8.24	24.92	46.00	-21.08	255	100	peak
3	599.3213	16.89	19.19	36.08	46.00	-9.92	360	100	peak

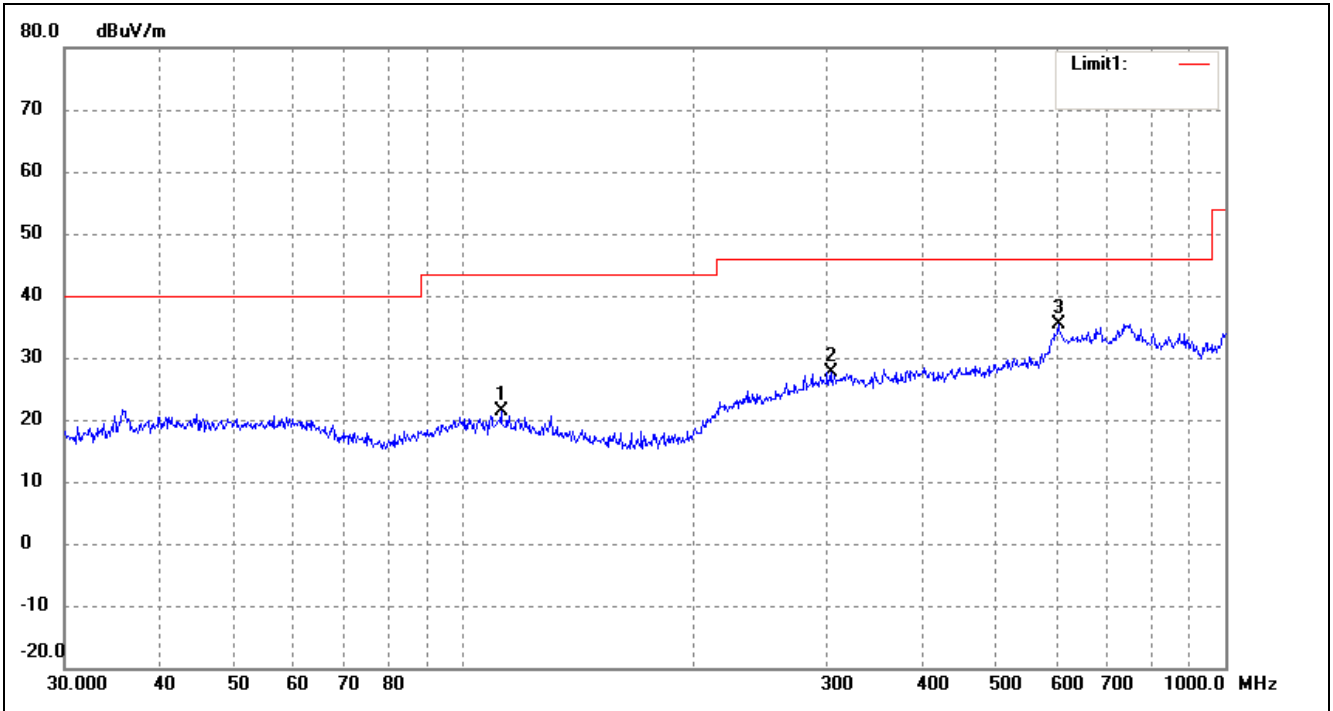
Test Specification: Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	38.3462	16.66	4.97	21.63	40.00	-18.37	360	100	peak
2	116.9495	15.57	5.03	20.60	43.50	-22.90	225	100	peak
3	649.6597	18.64	18.39	37.03	46.00	-8.97	160	100	peak

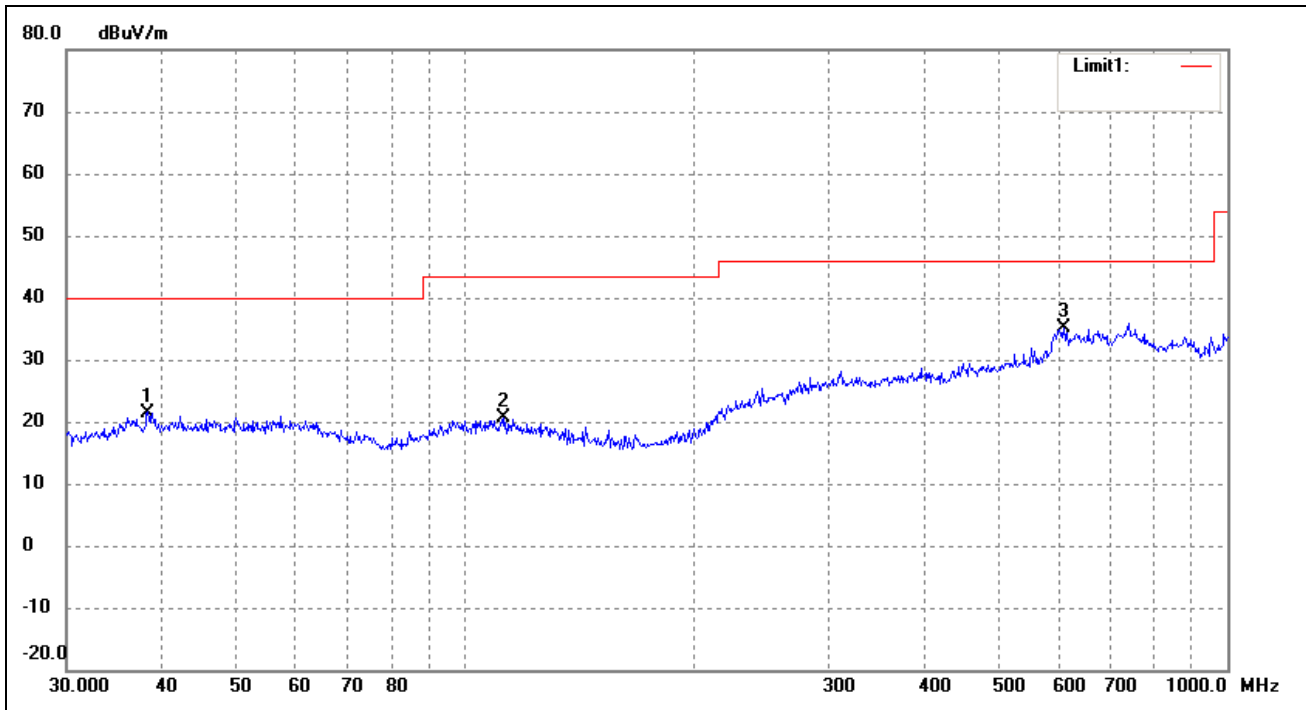
Test mode: Transmitting Channel 5785MHz

Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	112.1305	16.23	5.06	21.29	43.50	-22.21	100	100	peak
2	303.5437	15.50	12.19	27.69	46.00	-18.31	160	100	peak
3	603.5392	16.42	19.06	35.48	46.00	-10.52	320	100	peak

Test Specification: Vertical

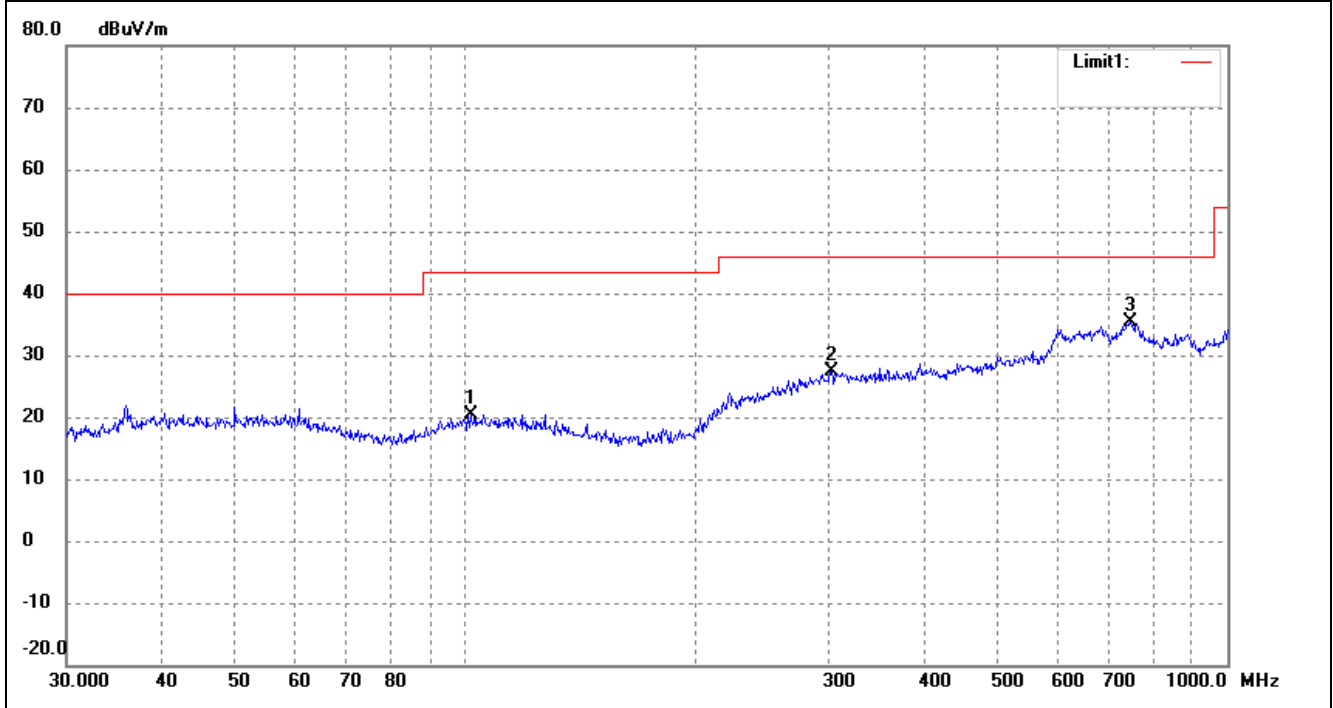


No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	38.3462	16.53	4.97	21.50	40.00	-18.50	100	100	peak
2	112.5244	15.58	5.06	20.64	43.50	-22.86	100	100	peak
3	609.9217	16.56	18.63	35.19	46.00	-10.81	336	100	peak

For 802.11n-HT20

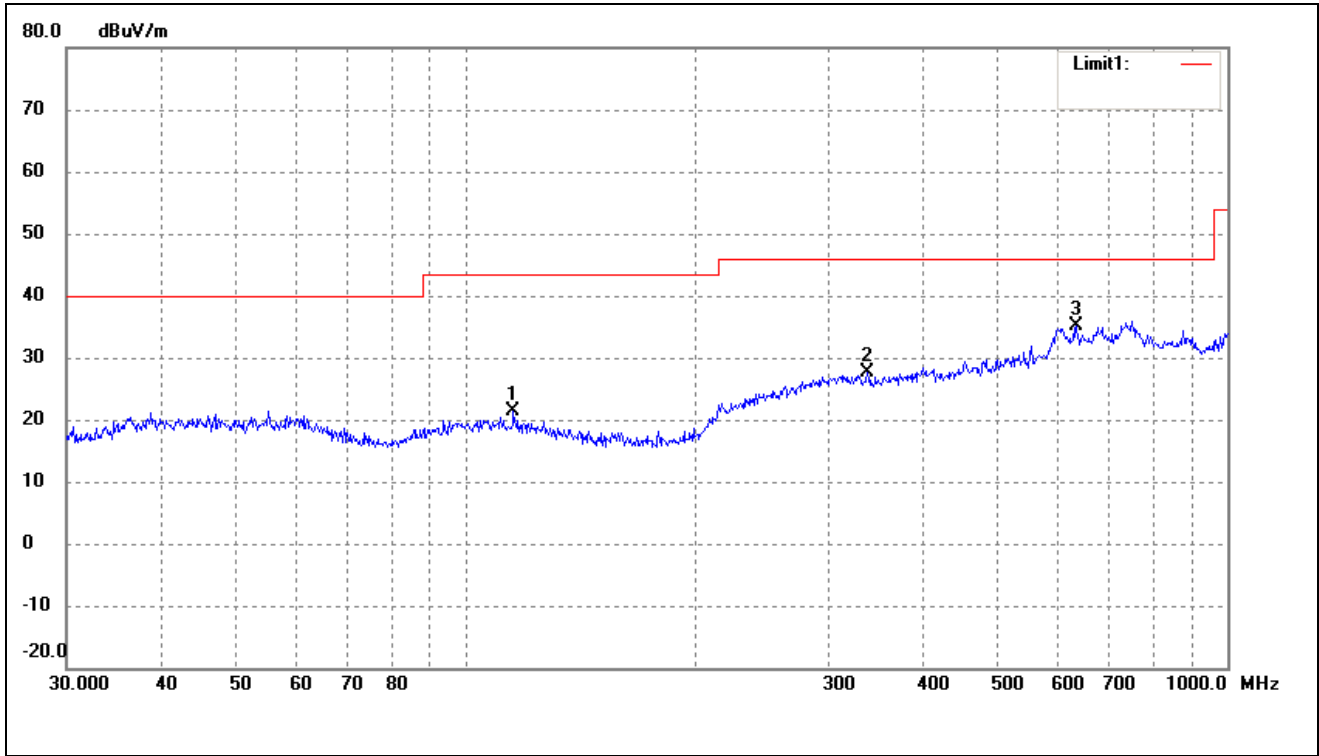
Test mode: Transmitting Channel 5180MHz

Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	101.6443	15.22	5.11	20.33	43.50	-23.17	270	100	peak
2	302.4812	15.10	12.19	27.29	46.00	-18.71	100	100	peak
3	744.8661	16.08	19.33	35.41	46.00	-10.59	228	200	peak

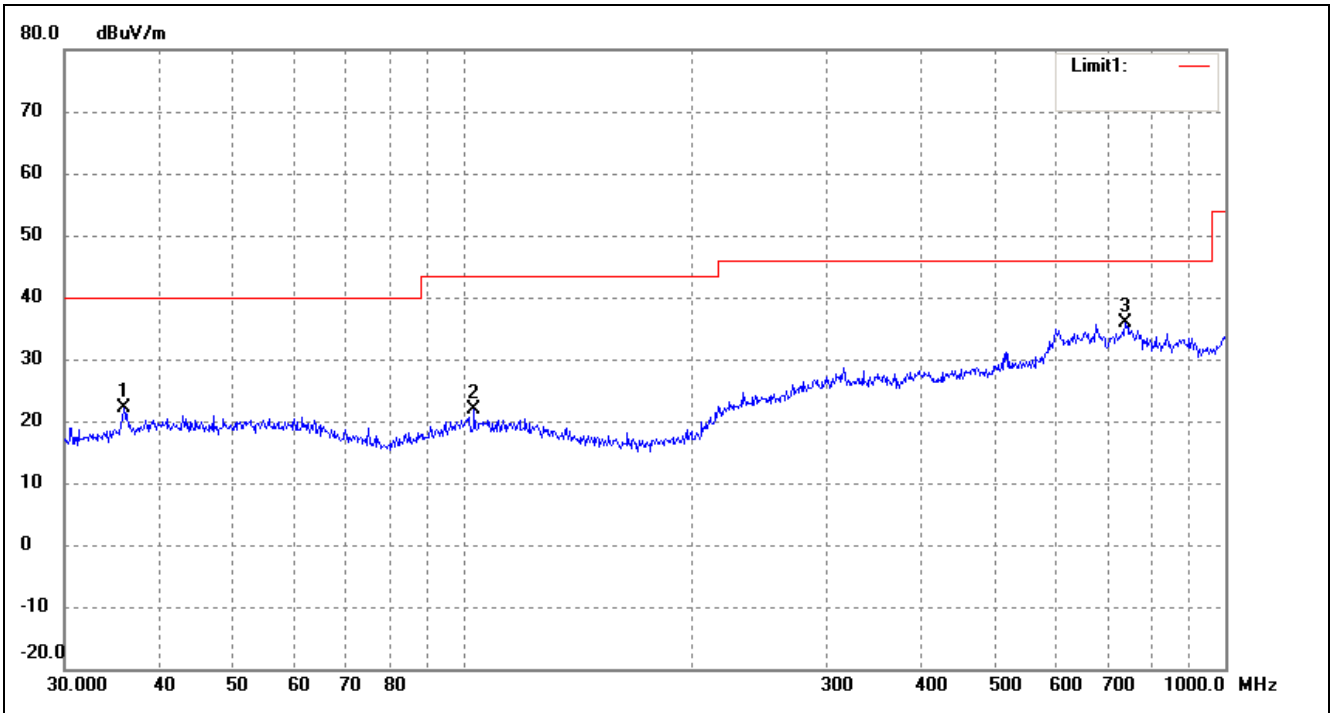
Test Specification: Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	115.7256	16.43	5.04	21.47	43.50	-22.03	360	100	peak
2	337.2155	15.89	11.80	27.69	46.00	-18.31	100	100	peak
3	633.9073	16.60	18.41	35.01	46.00	-10.99	100	100	peak

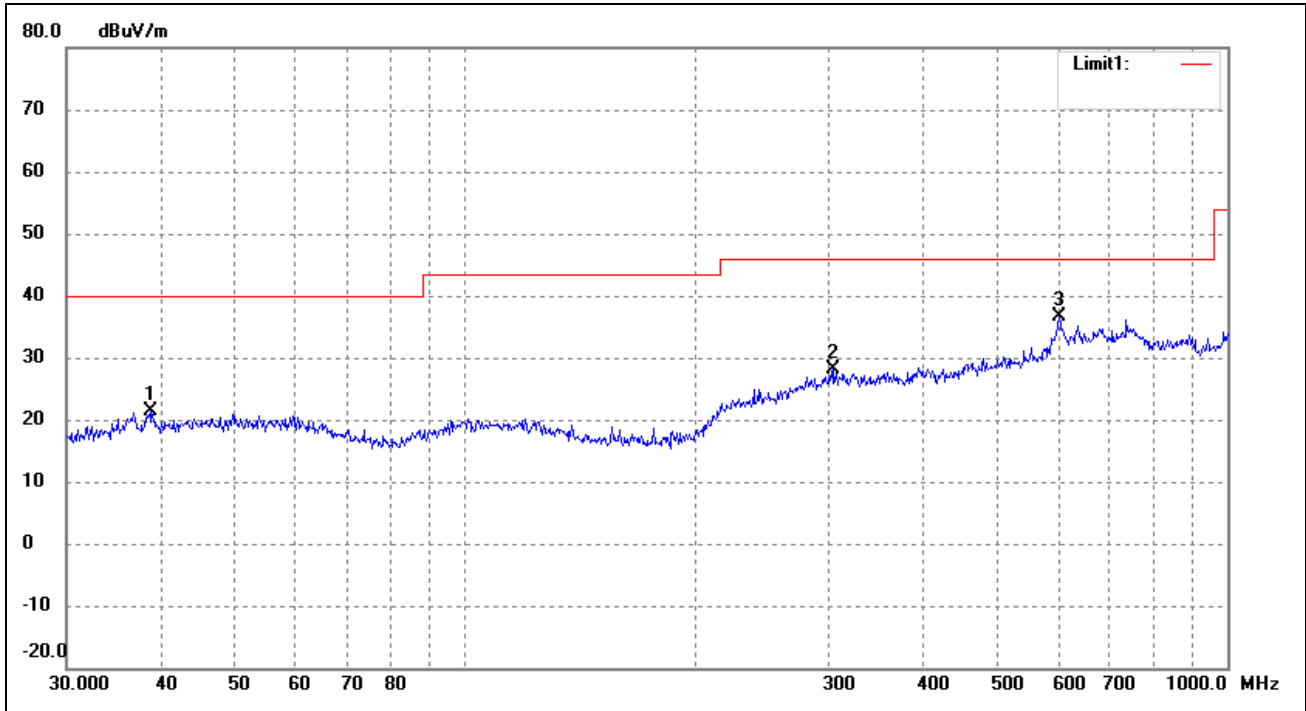
Test mode: Transmitting Channel 5260MHz

Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	35.8747	17.61	4.54	22.15	40.00	-17.85	270	100	peak
2	103.4421	16.74	5.12	21.86	43.50	-21.64	100	200	peak
3	739.6605	16.37	19.53	35.90	46.00	-10.10	100	200	peak

Test Specification: Vertical

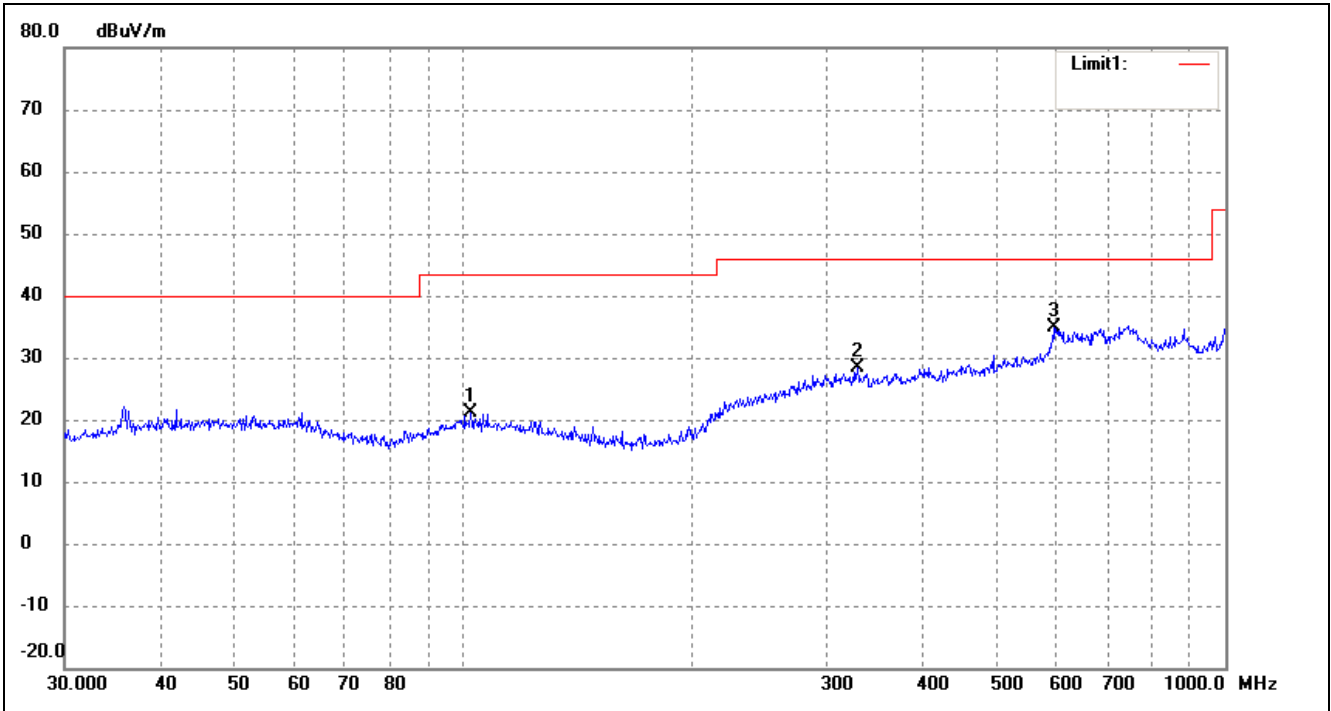


No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	38.6161	16.37	5.01	21.38	40.00	-18.62	360	100	peak
2	304.6100	16.01	12.19	28.20	46.00	-17.80	100	100	peak
3	601.4265	17.40	19.22	36.62	46.00	-9.38	100	100	peak



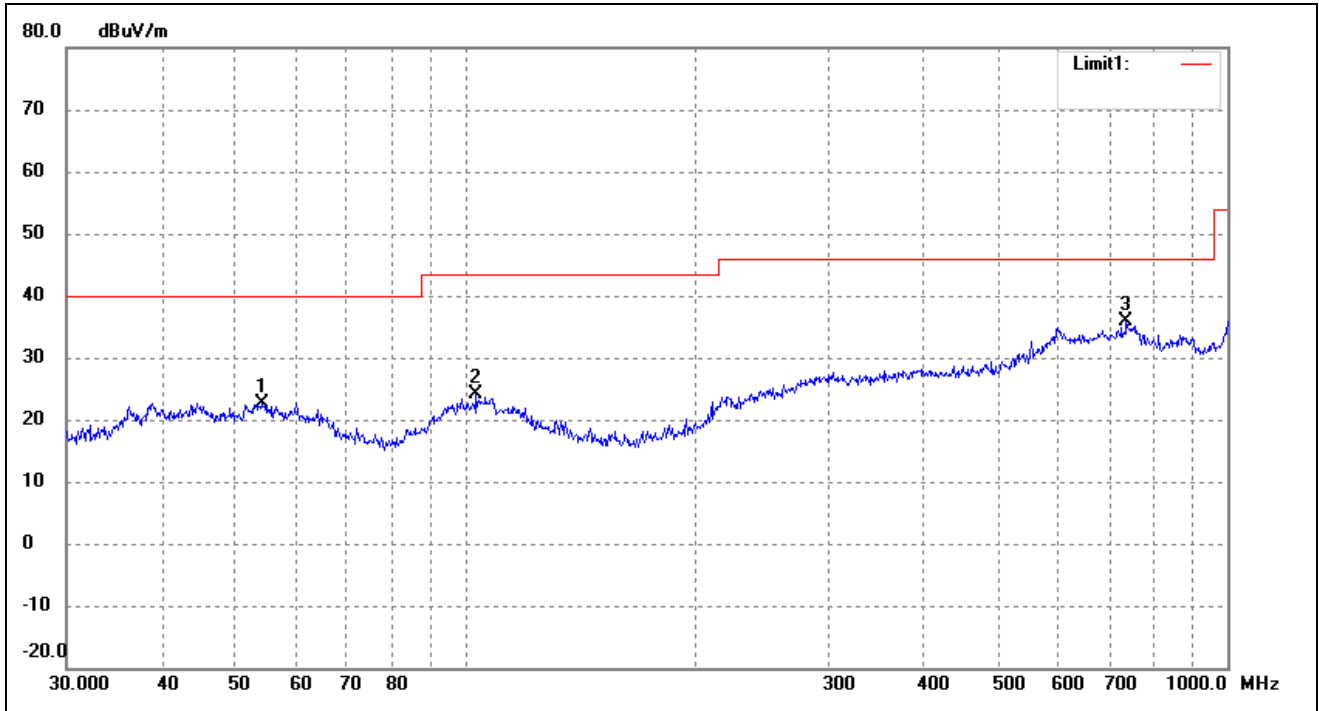
Test mode: Transmitting Channel 5580MHz

Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	102.3597	16.02	5.12	21.14	43.50	-22.36	260	100	peak
2	329.0390	16.31	12.03	28.34	46.00	-17.66	100	200	peak
3	595.1329	16.37	18.41	34.78	46.00	-11.22	285	200	peak

Test Specification: Vertical

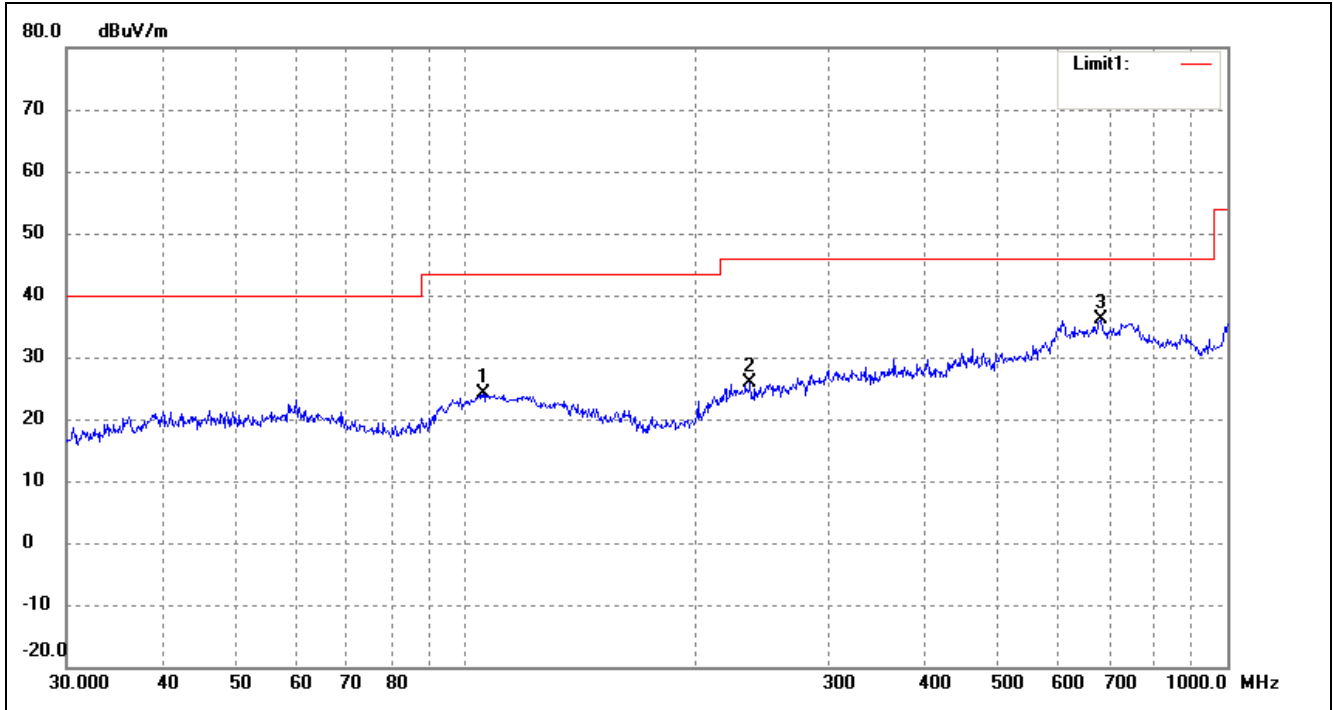


No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	54.0711	17.33	5.31	22.64	40.00	-17.36	155	100	peak
2	103.4420	19.08	5.12	24.20	43.50	-19.30	100	100	peak
3	737.0714	16.47	19.37	35.84	46.00	-10.16	100	100	peak

Test mode: Transmitting Channel 5745MHz

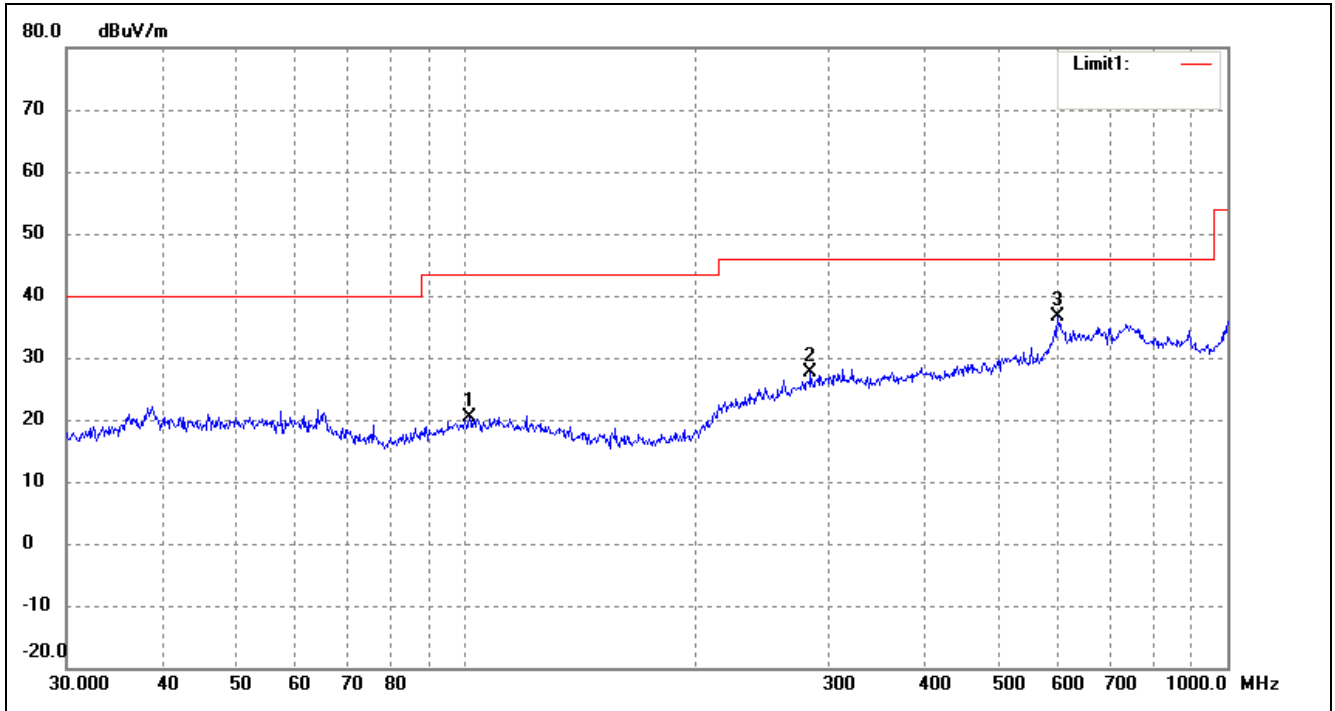
Horizontal

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	105.6414	18.94	5.09	24.03	43.50	-19.47	274	100	peak
2	236.6447	16.63	9.13	25.76	46.00	-20.24	116	100	peak
3	682.3484	16.96	19.08	36.04	46.00	-9.96	100	100	peak

Test Specification: Vertical

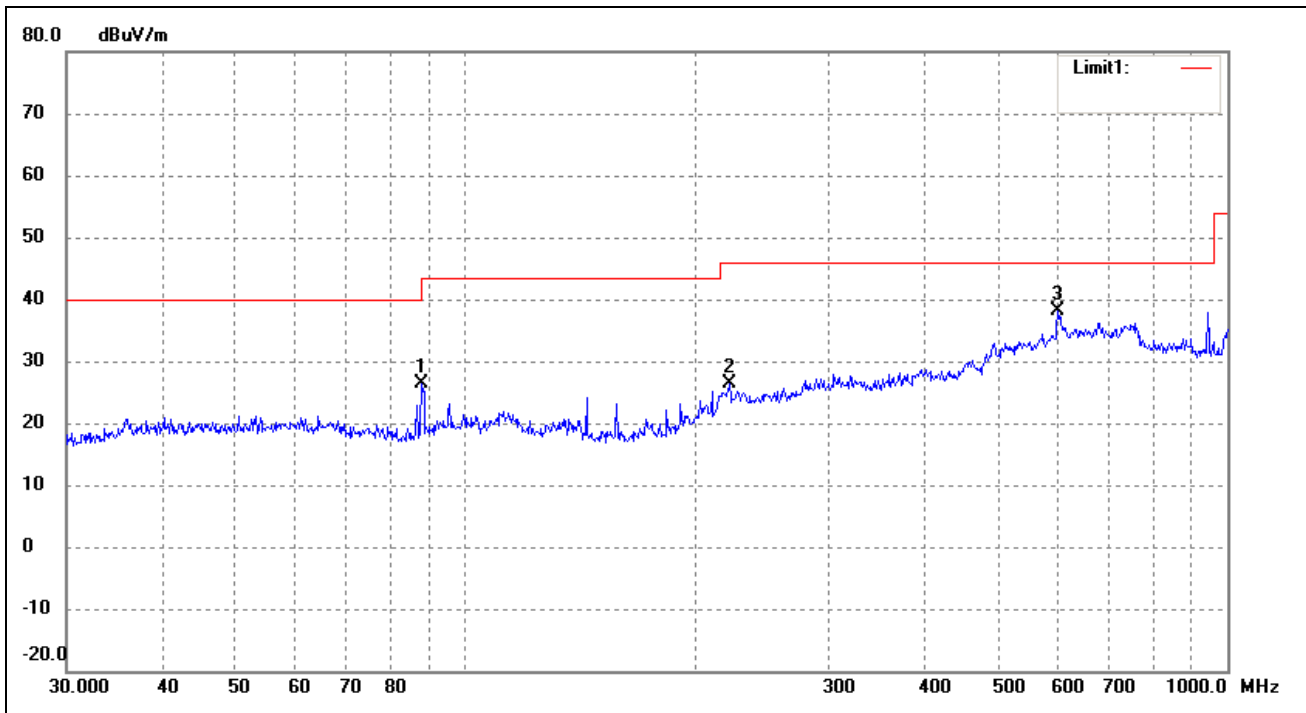


No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	101.2884	15.31	5.12	20.43	43.50	-23.07	100	100	peak
2	283.9791	16.03	11.55	27.58	46.00	-18.42	100	100	peak
3	599.3212	17.38	19.19	36.57	46.00	-9.43	100	100	peak

For 802.11n-HT40

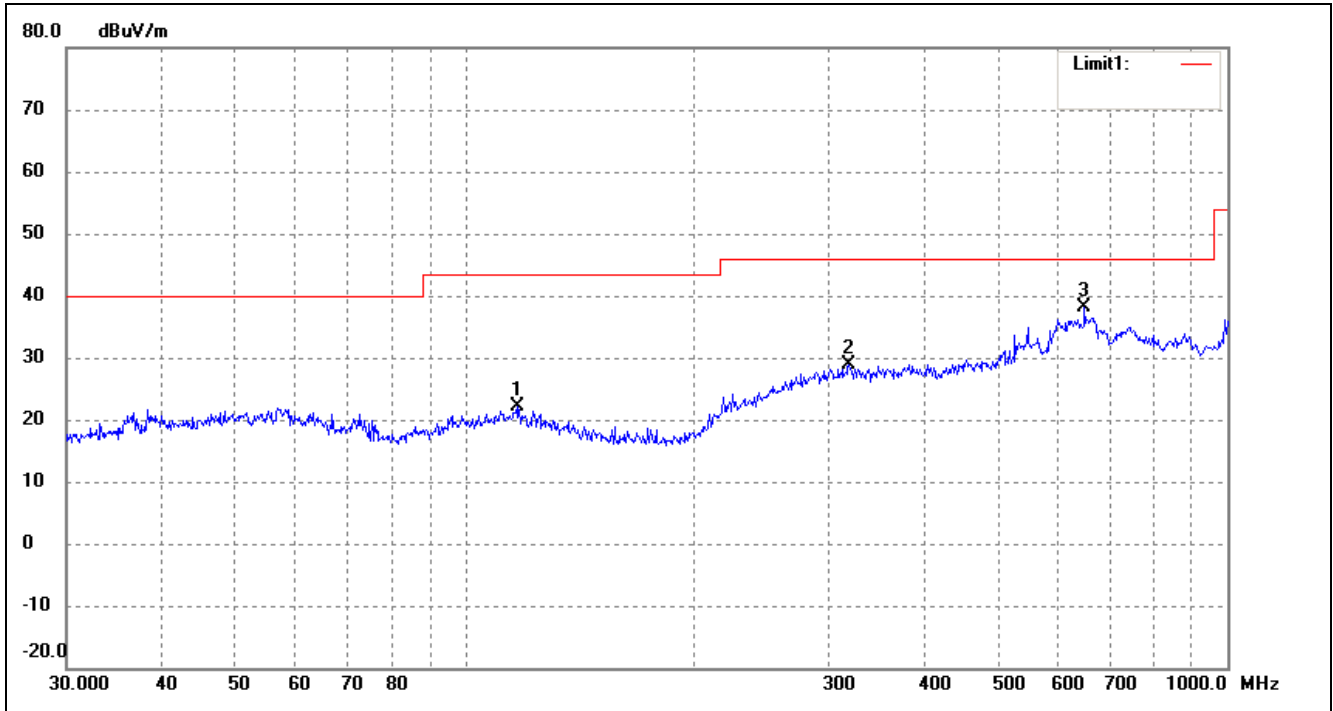
Test mode: Transmitting Channel 5190MHz

Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	87.7248	23.17	3.25	26.42	40.00	-13.58	360	100	peak
2	222.1698	18.18	8.24	26.42	46.00	-19.58	100	100	peak
3	599.3212	18.89	19.19	38.08	46.00	-7.92	100	200	peak

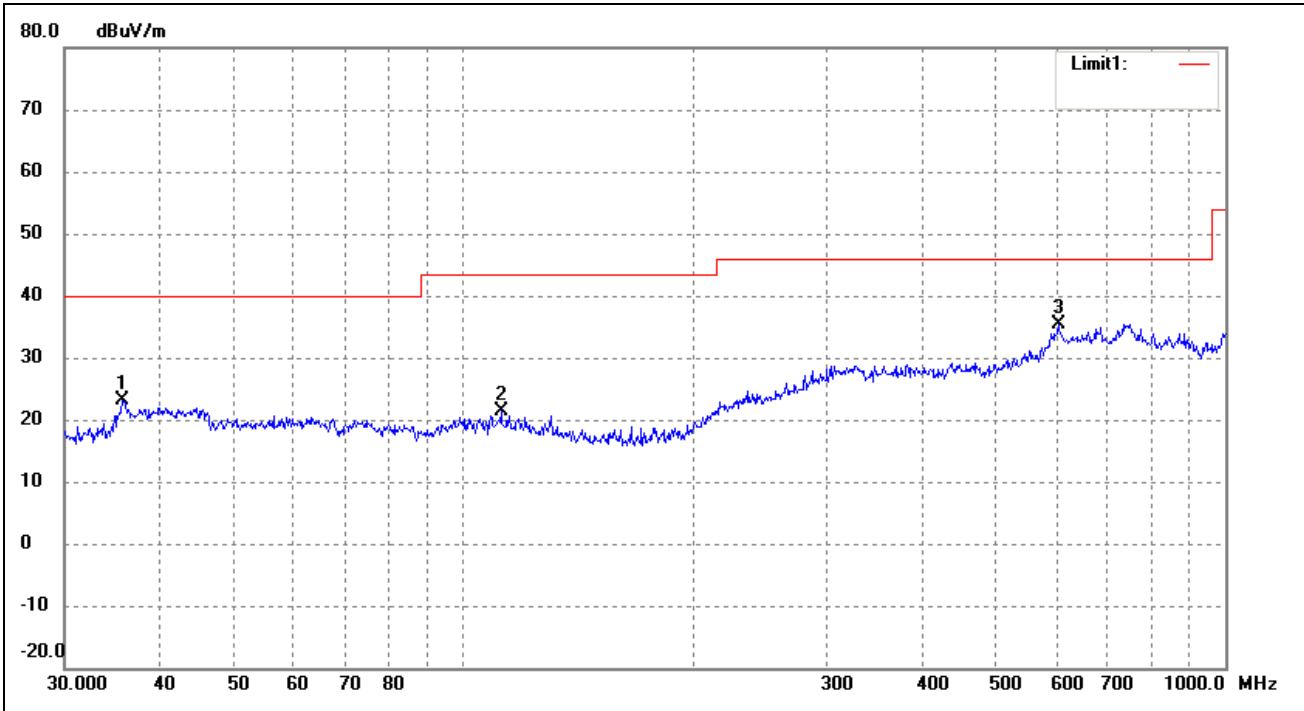
Test Specification: Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	116.9495	17.07	5.03	22.10	43.50	-21.40	100	100	peak
2	318.8170	16.71	12.28	28.99	46.00	-17.01	100	100	peak
3	649.6597	19.64	18.39	38.03	46.00	-7.97	360	100	peak

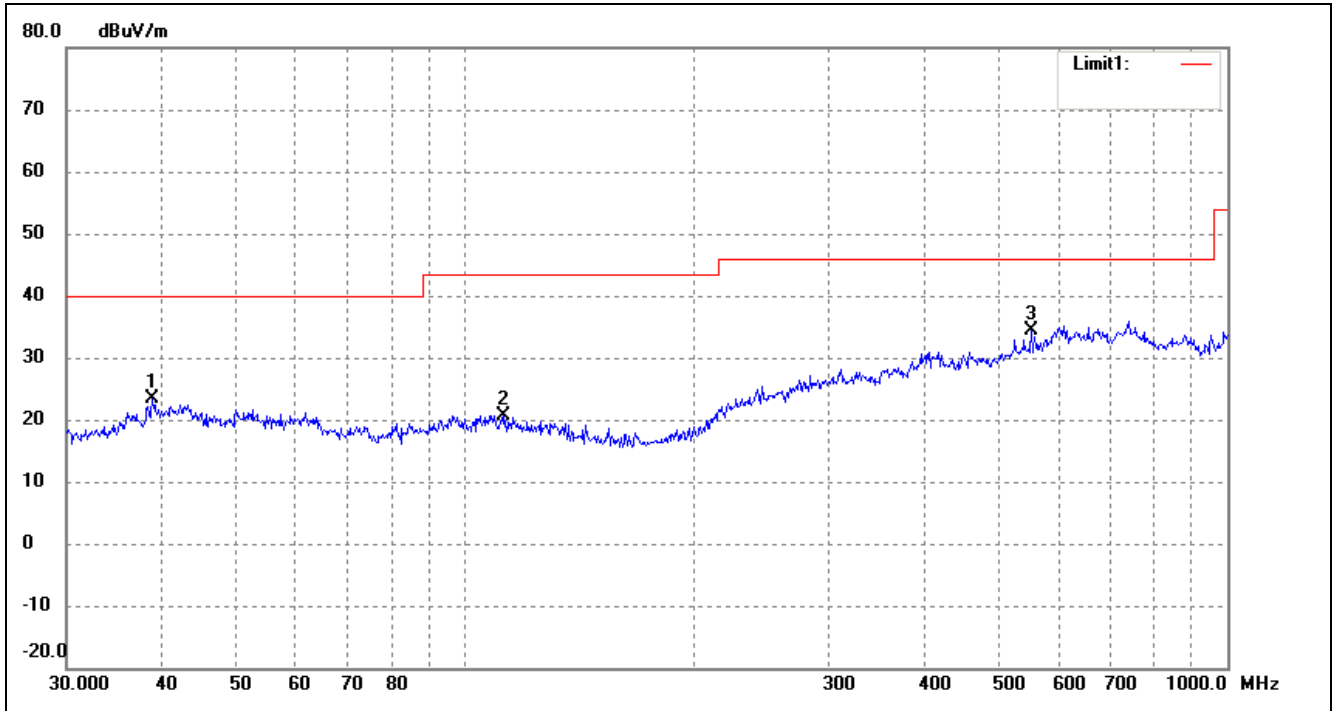
Test mode: Transmitting Channel 5270MHz

Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	35.7490	18.51	4.51	23.02	40.00	-16.98	267	100	peak
2	112.1304	16.23	5.06	21.29	43.50	-22.21	100	200	peak
3	603.5392	16.42	19.06	35.48	46.00	-10.52	100	200	peak

Test Specification: Vertical

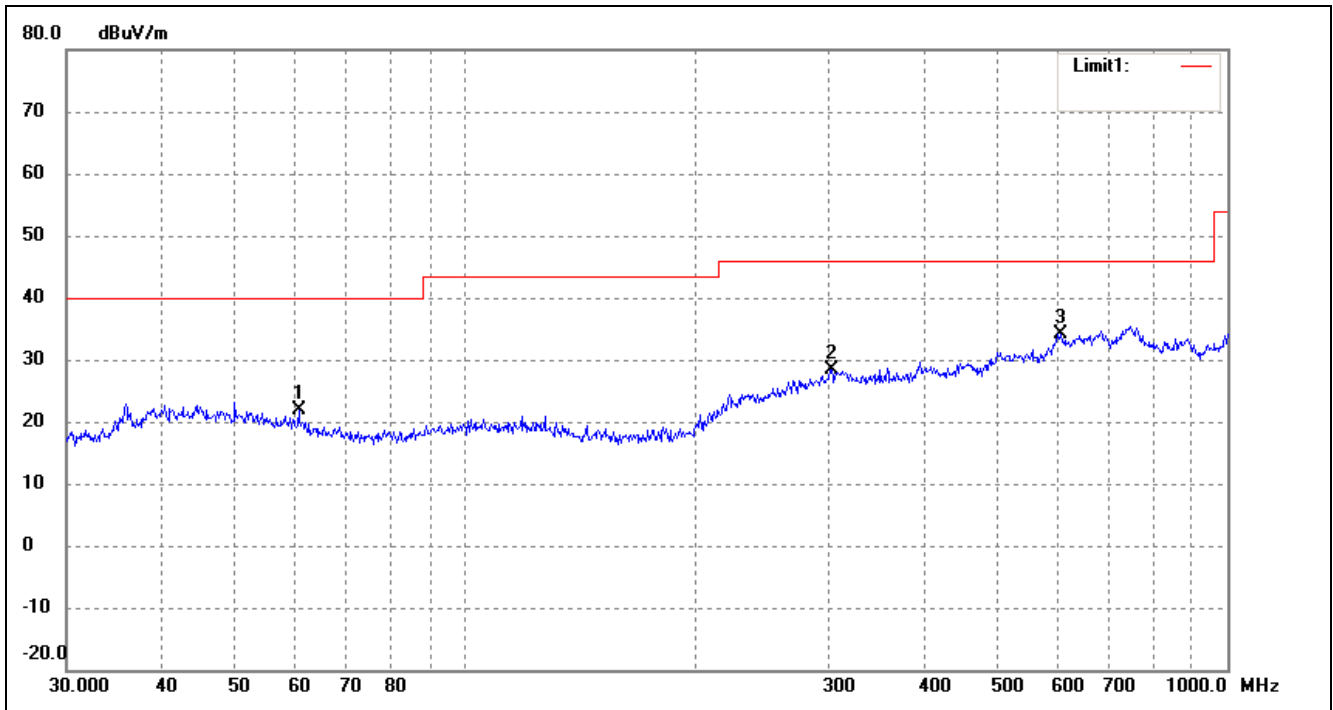


No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	38.8879	18.22	5.06	23.28	40.00	-16.72	360	100	peak
2	112.5243	15.59	5.05	20.64	43.50	-22.86	258	100	peak
3	552.8832	19.81	14.45	34.26	46.00	-11.74	347	100	peak



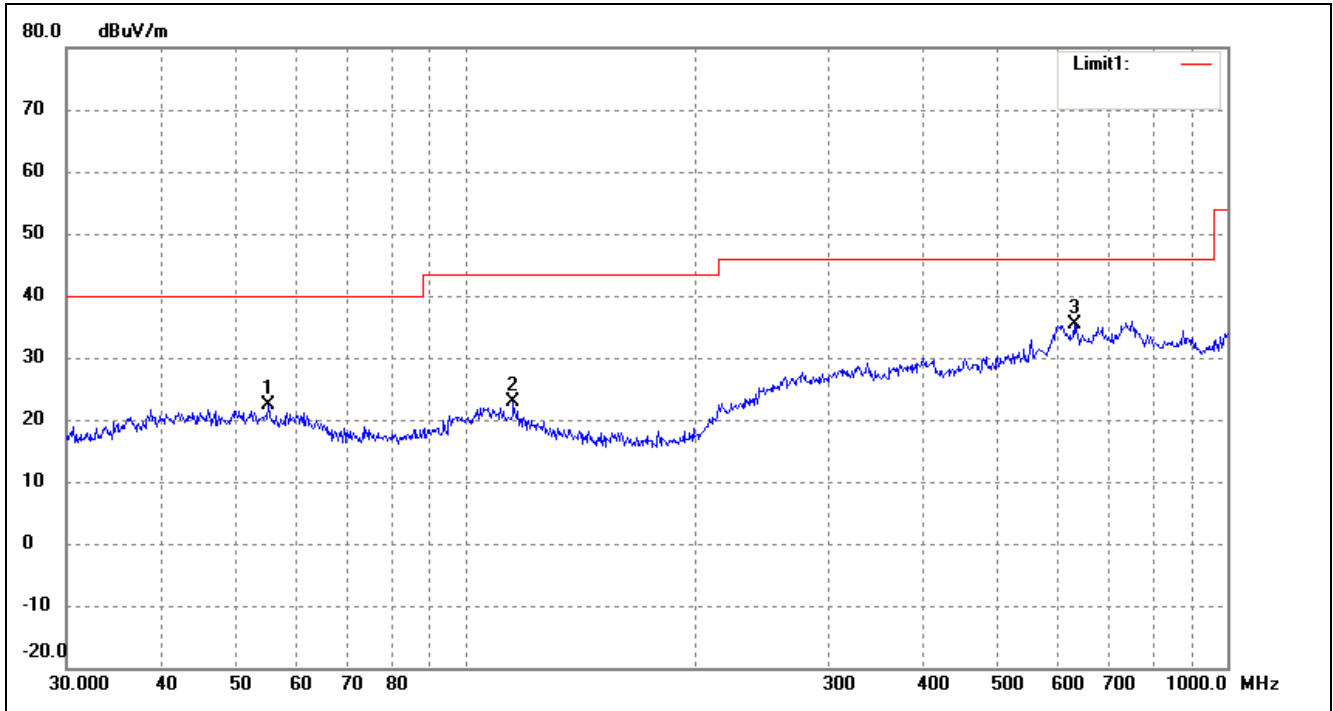
Test mode: Transmitting Channel 5550MHz

Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	60.4919	16.53	5.27	21.80	40.00	-18.20	251	100	peak
2	302.4812	16.10	12.19	28.29	46.00	-17.71	100	100	peak
3	605.6592	15.17	18.92	34.09	46.00	-11.91	100	100	peak

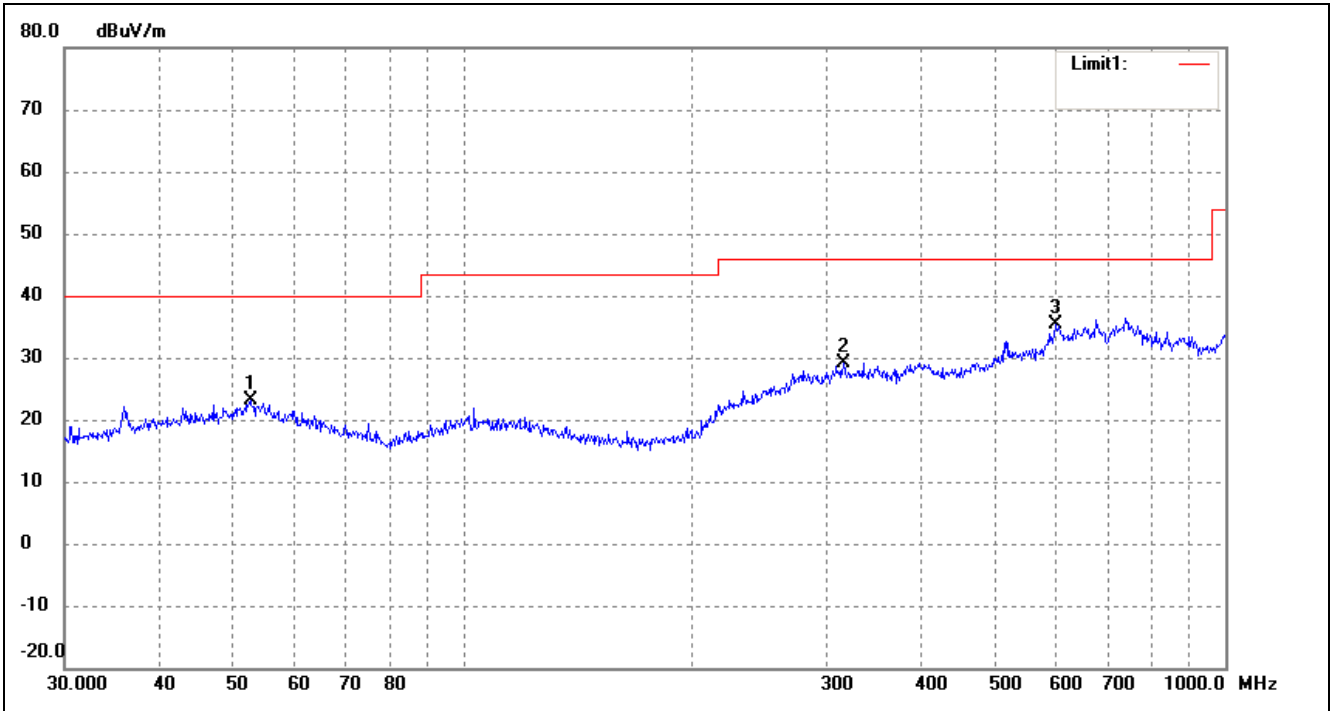
Test Specification: Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	55.2207	17.14	5.32	22.46	40.00	-17.54	100	100	peak
2	115.7256	17.93	5.04	22.97	43.50	-20.53	100	100	peak
3	629.4772	17.05	18.25	35.30	46.00	-10.70	100	100	peak

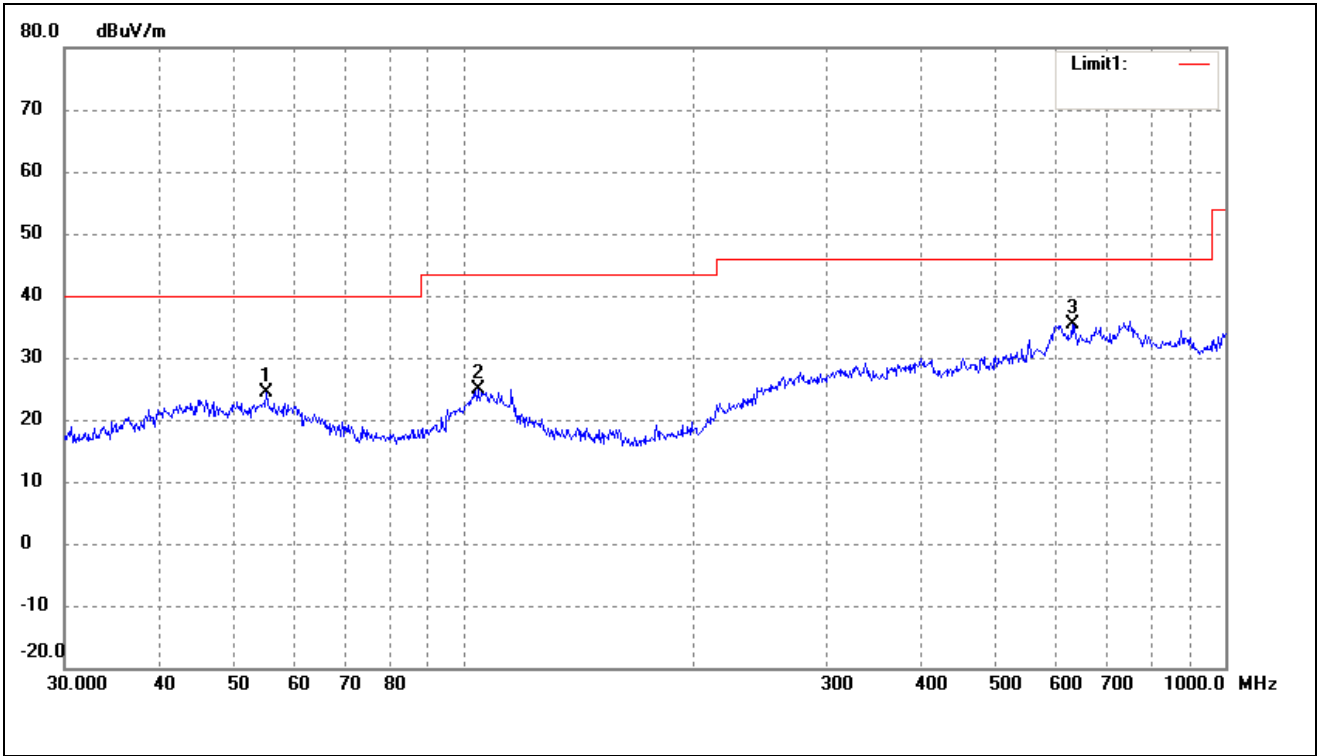
Test mode: Transmitting Channel 5755MHz

Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	52.5752	17.88	5.30	23.18	40.00	-16.82	360	100	peak
2	315.4807	16.89	12.27	29.16	46.00	-16.84	287	100	peak
3	599.3212	16.07	19.19	35.26	46.00	-10.74	168	100	peak

Test Specification: Vertical



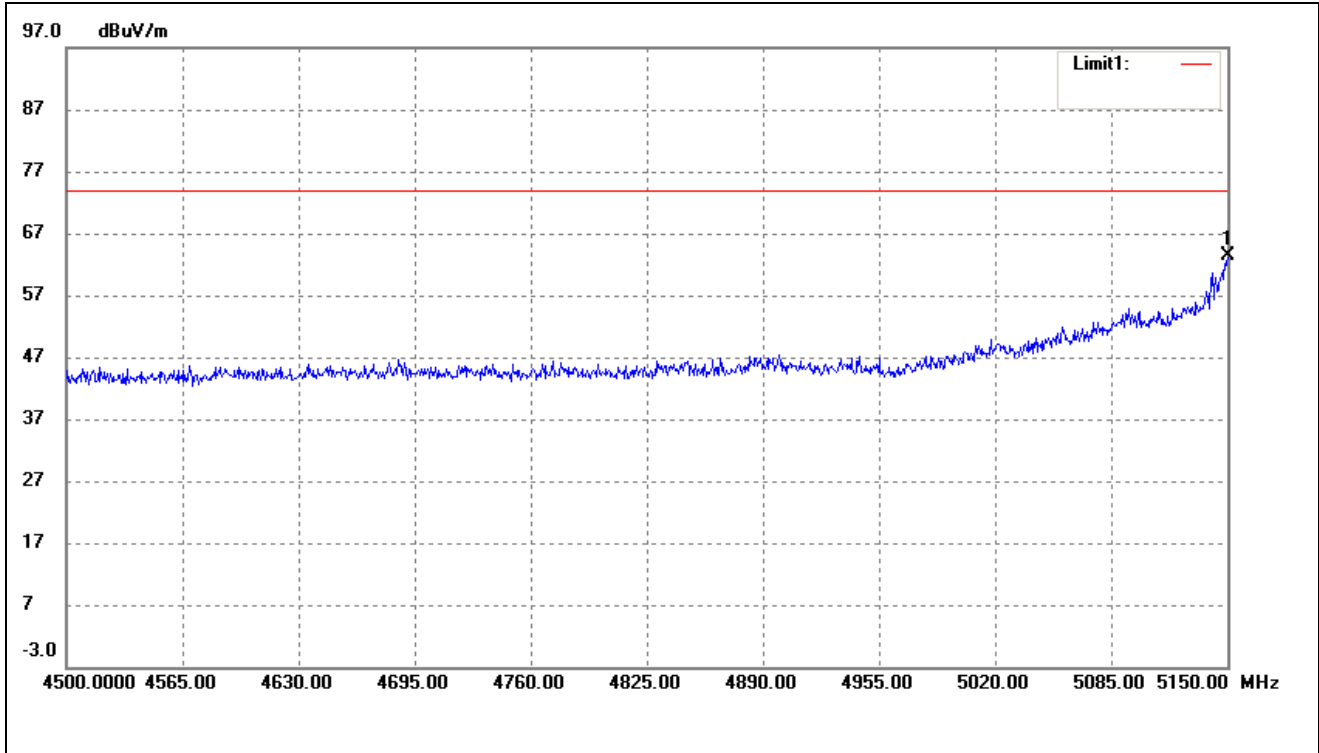
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	55.2207	19.14	5.32	24.46	40.00	-15.54	100	100	peak
2	104.5361	19.72	5.10	24.82	43.50	-18.68	136	100	peak
3	629.4772	17.05	18.25	35.30	46.00	-10.70	284	100	peak

For 802.11a

Spurious Emission above 1GHz

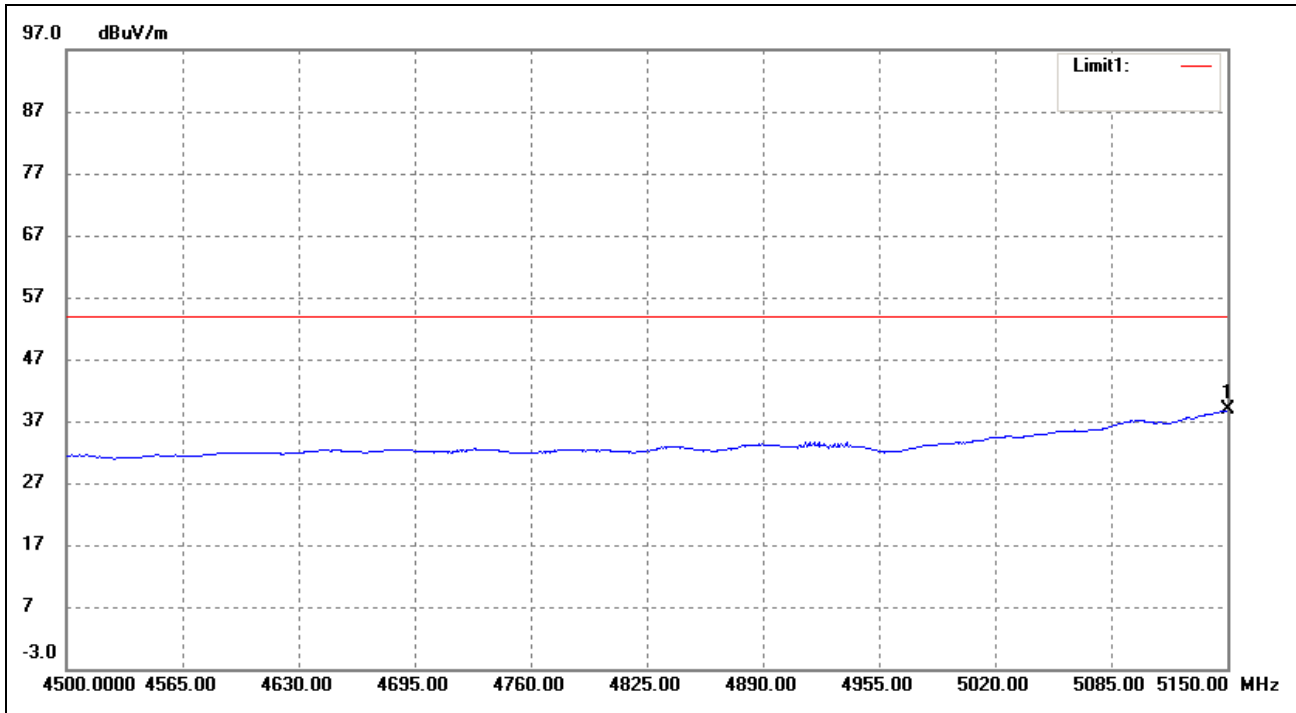
For the frequency band 5.15-5.25GHz

Restricted Bandedge Peak



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	5150.000	63.52	-0.13	63.39	74.00	-10.61	360	100	peak

Restricted Bandedge Average



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	5150.000	38.96	-0.13	38.83	54.00	-15.17	360	100	Ave

Note: this EUT was tested in the low, high channel and the worst case position data was reported.

*Harmonics And Spurious Emissions*

Frequency MHz	Detector	Meter Reading dBuV	Direction Degree	Polar H / V	Antenna Loss dB	Cable loss dB	Amplifier dB	Correction Amplitude dBuV/m	Limit dBuV/m	Margin dB
Low Channel (5180MHz)										
15540	PK	53.5	360	V	40.7	10.9	39.6	65.5	74	-8.5
15540	PK	52.1	360	H	40.7	10.9	39.6	64.1	74	-9.9
15540	AV	35.4	360	V	40.7	10.9	39.6	47.4	54	-6.6
15540	AV	34.2	360	H	40.7	10.9	39.6	46.2	54	-7.8
High Channel (5240MHz)										
15720	PK	54.0	360	V	40.7	10.9	39.6	66	74	-8.0
15720	PK	52.9	360	H	40.7	10.9	39.6	64.9	74	-9.1
15720	AV	34.8	360	V	40.7	10.9	39.6	46.8	54	-7.2
15720	AV	32.3	360	H	40.7	10.9	39.6	44.3	54	-9.7

For the frequency band 5.725-5.850GHz

*Harmonics And Spurious Emissions*

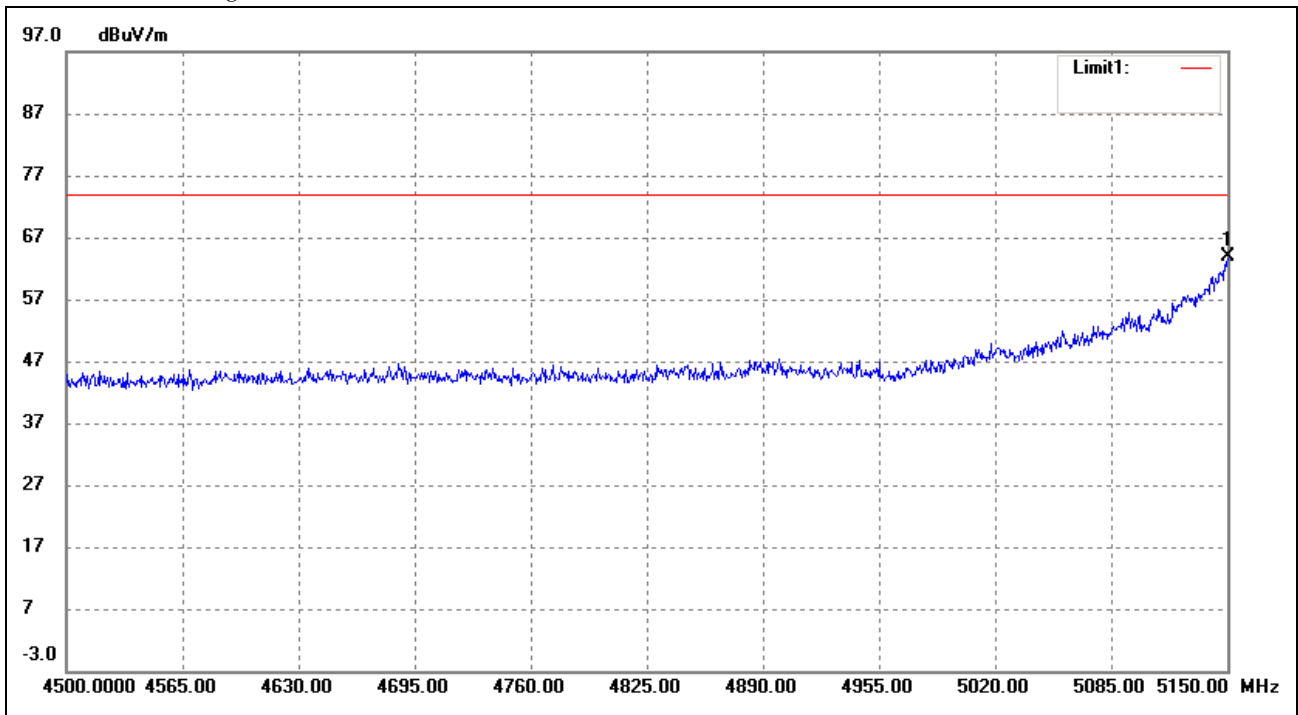
Frequency MHz	Detector	Meter Reading dBuV	Direction Degree	Polar H / V	Antenna Loss dB	Cable loss dB	Amplifier dB	Correction Amplitude dBuV/m	Limit dBuV/m	Margin dB
Low Channel (5725MHz)										
11450	PK	51.1	360	V	38.9	9.8	40.1	59.7	74	-14.3
11450	PK	49.9	360	H	38.9	9.8	40.1	58.5	74	-15.5
11450	AV	35.3	360	V	38.9	9.8	40.1	43.9	54	-10.1
11450	AV	33.2	360	H	38.9	9.8	40.1	41.8	54	-12.2
High Channel (5825MHz)										
11650	PK	52.8	360	V	38.9	9.8	40.1	61.4	74	-12.6
11650	PK	51.7	360	H	38.9	9.8	40.1	60.3	74	-13.7
11650	AV	33.3	360	V	38.9	9.8	40.1	41.9	54	-12.1
11650	AV	31.5	360	H	38.9	9.8	40.1	40.1	54	-13.9



802.11n HT20

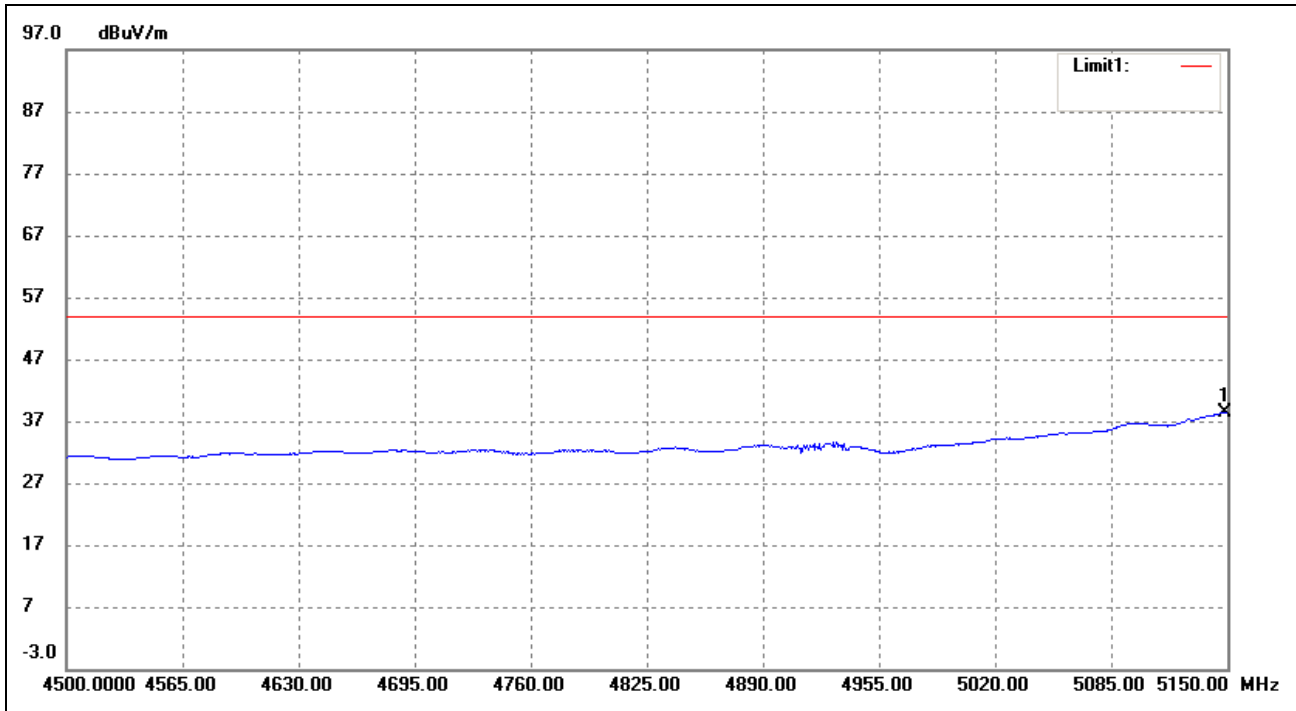
For the frequency band 5.15-5.25GHz

Restricted Bandedge Peak



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	5150.000	64.02	-0.13	63.89	74.00	-10.11	360	100	peak

Restricted Bandedge Average



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (° )	Height (cm)	Remark
1	5148.700	38.52	-0.13	38.39	54.00	-15.61	360	100	Ave

Note: this EUT was tested in the low, high channel and the worst case position data was reported.

*Harmonics And Spurious Emissions*

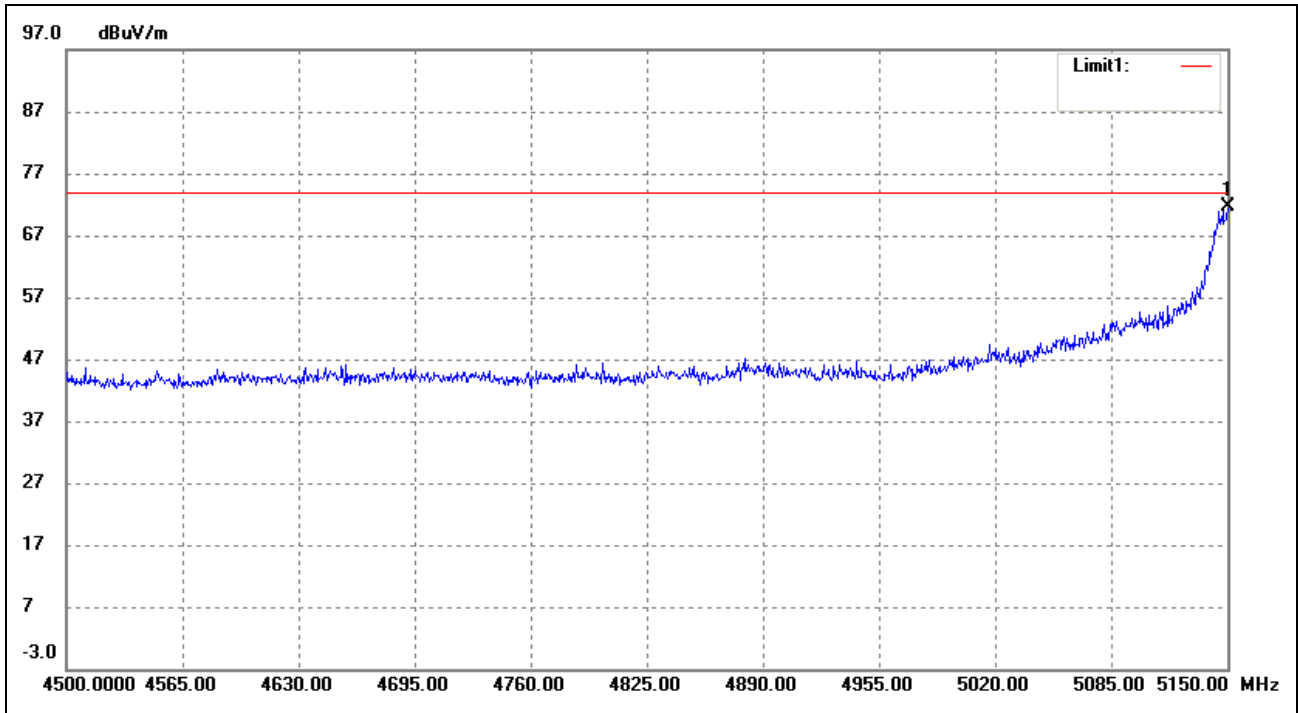
Frequency MHz	Detector	Meter Reading dBuV	Direction Degree	Polar H / V	Antenna Loss dB	Cable loss dB	Amplifier dB	Correction Amplitude dBuV/m	Limit dBuV/m	Margin dB
Low Channel (5180MHz)										
15540	PK	54.1	360	V	40.7	10.9	39.6	66.1	74	-7.9
15540	PK	49.7	360	H	40.7	10.9	39.6	61.7	74	-12.3
15540	AV	32.3	360	V	40.7	10.9	39.6	44.3	54	-9.7
15540	AV	31.0	360	H	40.7	10.9	39.6	43.0	54	-11.0
High Channel (5240MHz)										
15720	PK	52.1	360	V	40.7	10.9	39.6	64.1	74	-9.9
15720	PK	47.9	360	H	40.7	10.9	39.6	59.9	74	-14.1
15720	AV	32.5	360	V	40.7	10.9	39.6	44.5	54	-9.5
15720	AV	30.7	360	H	40.7	10.9	39.6	42.7	54	-11.3

For the frequency band 5.725-5.850GHz

*Harmonics And Spurious Emissions*

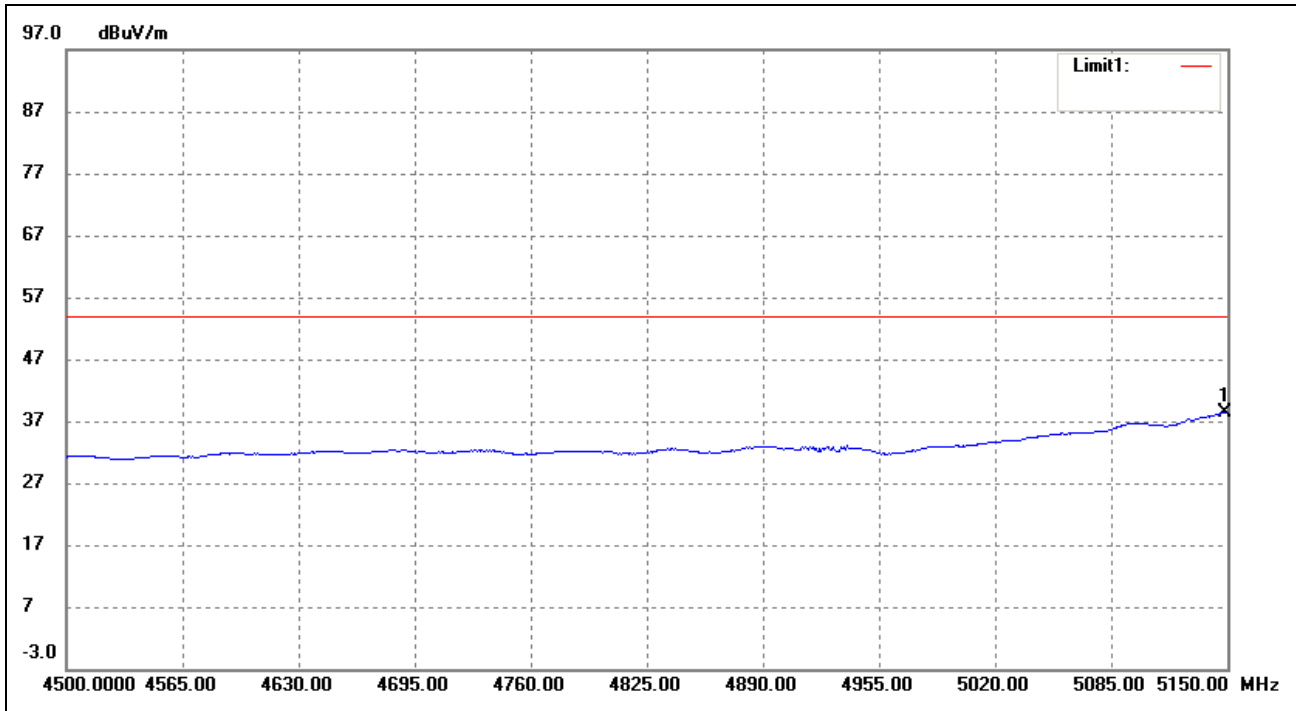
Frequency MHz	Detector	Meter Reading dBuV	Direction Degree	Polar H / V	Antenna Loss dB	Cable loss dB	Amplifier dB	Correction Amplitude dBuV/m	Limit dBuV/m	Margin dB
Low Channel (5725MHz)										
11450	PK	52.4	360	V	38.9	9.8	40.1	61.0	74	-13.0
11450	PK	50.8	360	H	38.9	9.8	40.1	59.4	74	-14.6
11450	AV	31.8	360	V	38.9	9.8	40.1	40.4	54	-13.6
11450	AV	30.5	360	H	38.9	9.8	40.1	39.1	54	-14.9
High Channel (5825MHz)										
11650	PK	52.4	360	V	38.9	9.8	40.1	61.0	74	-13.0
11650	PK	50.9	360	H	38.9	9.8	40.1	59.5	74	-14.5
11650	AV	32.6	360	V	38.9	9.8	40.1	41.2	54	-12.8
11650	AV	31.7	360	H	38.9	9.8	40.1	40.3	54	-13.7

802.11n HT40  
 For the frequency band 5.15-5.25GHz  
 Restricted Bandedge Peak



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (° )	Height (cm)	Remark
1	5150.000	71.84	-0.13	71.71	74.00	-2.29	360	100	peak

Restricted Bandedge Average



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	5148.700	38.45	-0.13	38.32	54.00	-15.68	360	100	Ave

Note: this EUT was tested in the low, high channel and the worst case position data was reported.

*Harmonics And Spurious Emissions*

Frequency MHz	Detector	Meter Reading dBuV	Direction Degree	Polar H / V	Antenna Loss dB	Cable loss dB	Amplifier dB	Correction Amplitude dBuV/m	Limit dBuV/m	Margin dB
Low Channel (5190MHz)										
15570	PK	49.6	360	V	40.7	10.9	39.6	61.6	74	-12.4
15570	PK	47.8	360	H	40.7	10.9	39.6	59.8	74	-14.2
15570	AV	31.5	360	V	40.7	10.9	39.6	43.5	54	-10.5
15570	AV	30.2	360	H	40.7	10.9	39.6	42.2	54	-11.8
High Channel (5230MHz)										
15690	PK	48.7	360	V	40.7	10.9	39.6	60.7	74	-13.3
15690	PK	47.3	360	H	40.7	10.9	39.6	59.3	74	-14.7
15690	AV	32.3	360	V	40.7	10.9	39.6	44.3	54	-9.7
15690	AV	30.6	360	H	40.7	10.9	39.6	42.6	54	-11.4

For the frequency band 5.725-5.850GHz

Restricted Band, Harmonics And Spurious Emissions

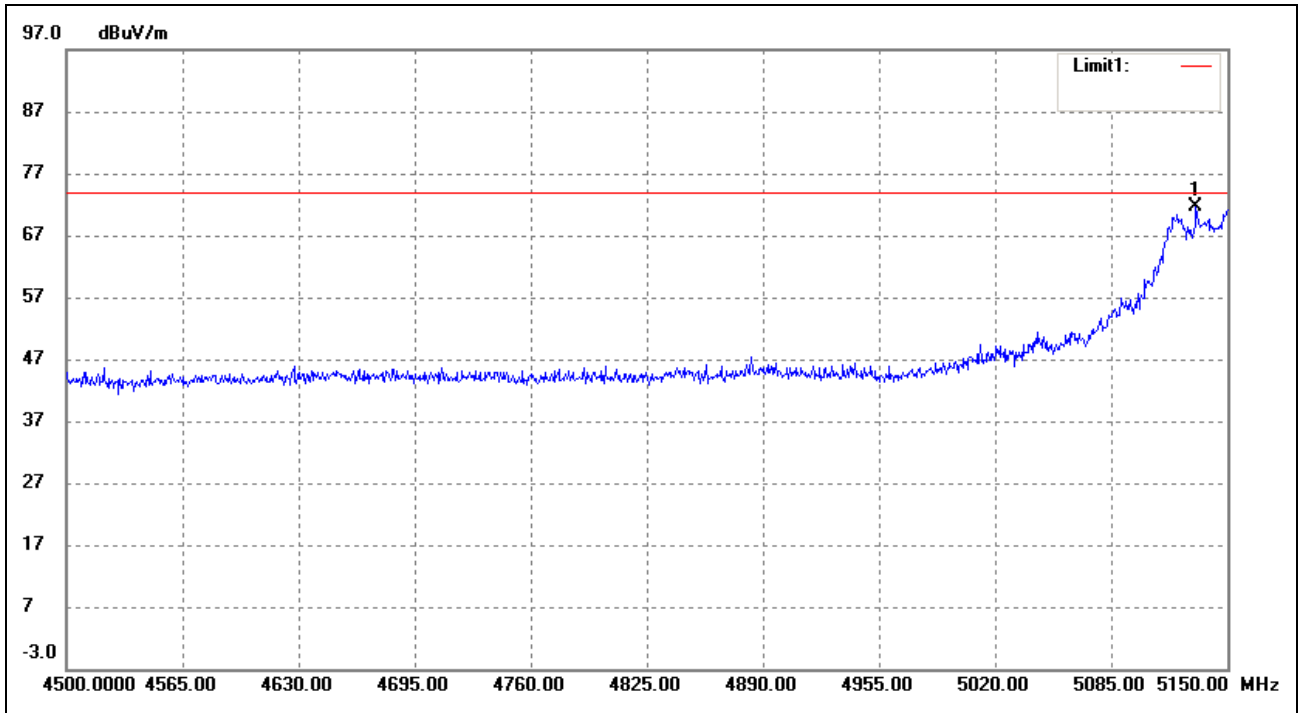
Frequency MHz	Detector	Meter Reading dBuV	Direction Degree	Polar H / V	Antenna Loss dB	Cable loss dB	Amplifier dB	Correction Amplitude dBuV/m	Limit dBuV/m	Margin dB
Low Channel (5755MHz)										
11510	PK	51.5	360	V	38.9	9.8	40.1	60.1	74	-13.9
11510	PK	51.0	360	H	38.9	9.8	40.1	59.6	74	-14.4
11510	AV	33.3	360	V	38.9	9.8	40.1	41.9	54	-12.1
11510	AV	31.9	360	H	38.9	9.8	40.1	40.5	54	-13.5
High Channel (5795MHz)										
11590	PK	51.3	360	V	38.9	9.8	40.1	59.9	74	-14.1
11590	PK	50.2	360	H	38.9	9.8	40.1	58.8	74	-15.2
11590	AV	32.5	360	V	38.9	9.8	40.1	41.1	54	-12.9
11590	AV	31.7	360	H	38.9	9.8	40.1	40.3	54	-13.7



802.11ac HT80

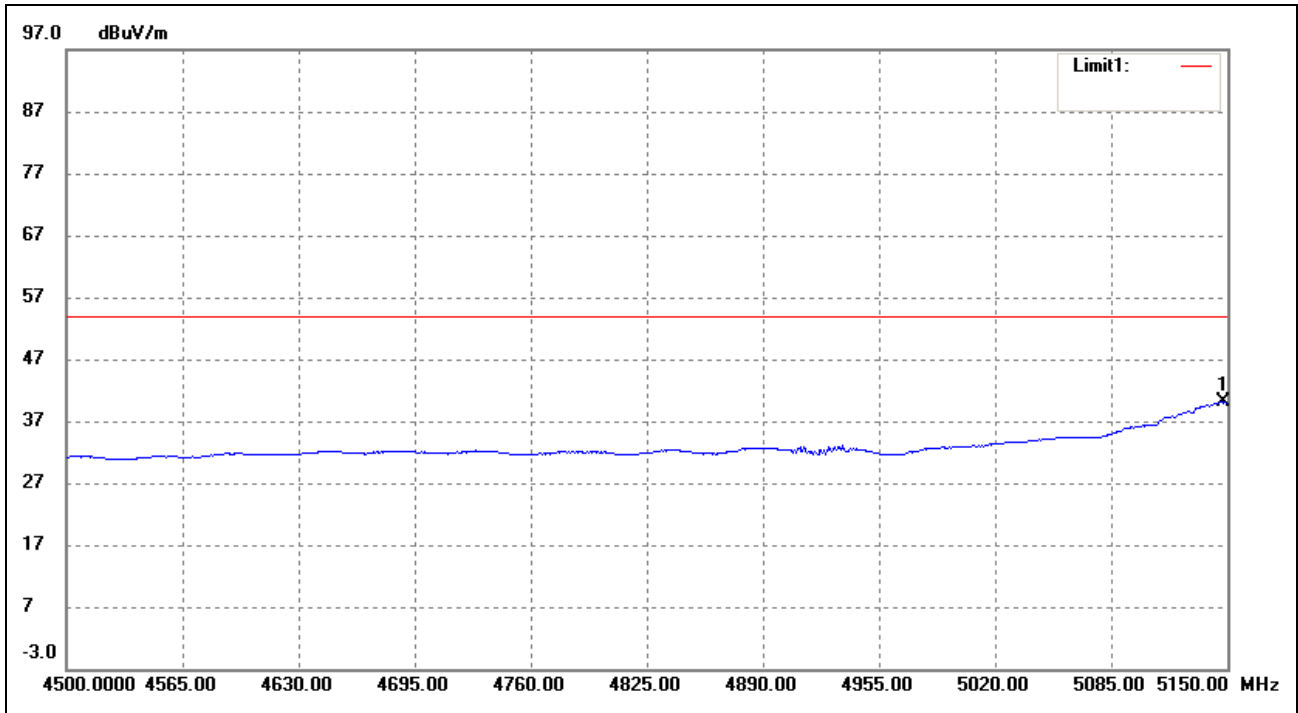
For the frequency band 5.15-5.25GHz

Restricted Bandedge Peak



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	5132.450	71.82	-0.17	71.65	74.00	-2.35	360	100	peak

Restricted Bandedge Average



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	5148.050	40.19	-0.13	40.06	54.00	-13.94	360	100	Ave

*Harmonics And Spurious Emissions*

Frequency MHz	Detector	Meter Reading dBuV	Direction Degree	Polar H / V	Antenna Loss dB	Cable loss dB	Amplifier dB	Correction Amplitude dBuV/m	Limit dBuV/m	Margin dB
Low Channel (5210MHz)										
15630	PK	46.3	360	V	40.7	10.9	39.6	58.3	74	-15.7
15630	PK	45.8	360	H	40.7	10.9	39.6	57.8	74	-16.2
15630	AV	30.1	360	V	40.7	10.9	39.6	42.1	54	-11.9
15630	AV	29.7	360	H	40.7	10.9	39.6	41.7	54	-12.3

For the frequency band 5.725-5.85GHz

Harmonics And Spurious Emissions

Frequency MHz	Detector	Meter Reading dBuV	Direction Degree	Polar H / V	Antenna Loss dB	Cable loss dB	Amplifier dB	Correction Amplitude dBuV/m	Limit dBuV/m	Margin dB
Low Channel (5775MHz)										
11550	PK	49.4	360	V	38.9	9.8	40.1	58.0	74	-16.0
11550	PK	49.0	360	H	38.9	9.8	40.1	57.6	74	-16.4
11550	AV	31.4	360	V	38.9	9.8	40.1	40.0	54	-14.0
11550	AV	30.8	360	H	38.9	9.8	40.1	39.4	54	-14.6

Note: Testing is carried out with frequency rang 30MHz to 40GHz, which above 3<sup>th</sup> Harmonics are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

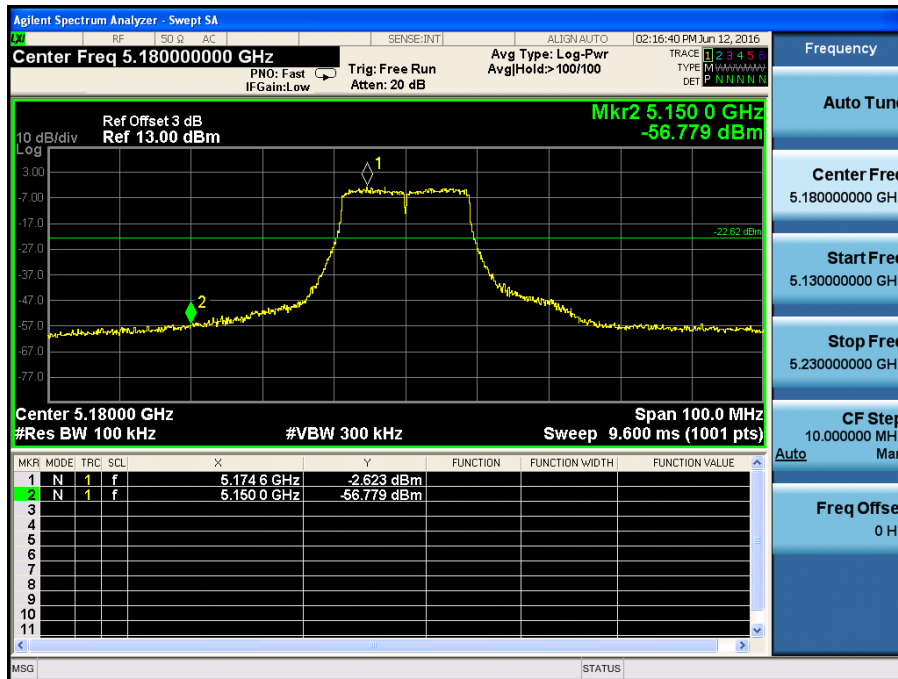
Emissions above 26.5GHz are attenuated more than 20dB below the permissible limits and test data are not reported.

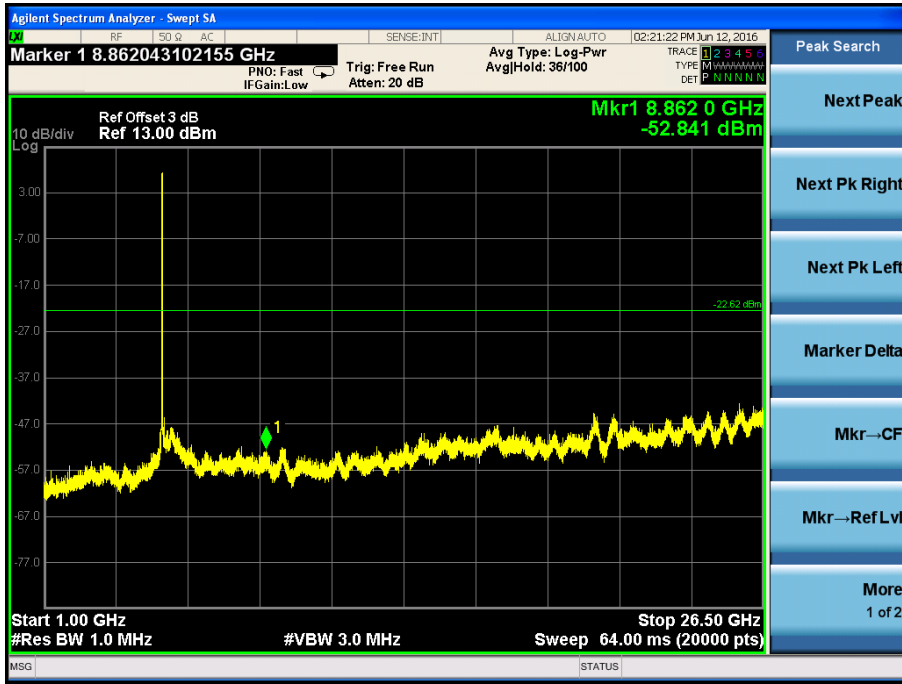
Out-of-Band and Spurious Emission (Conducted)

Antenna 1

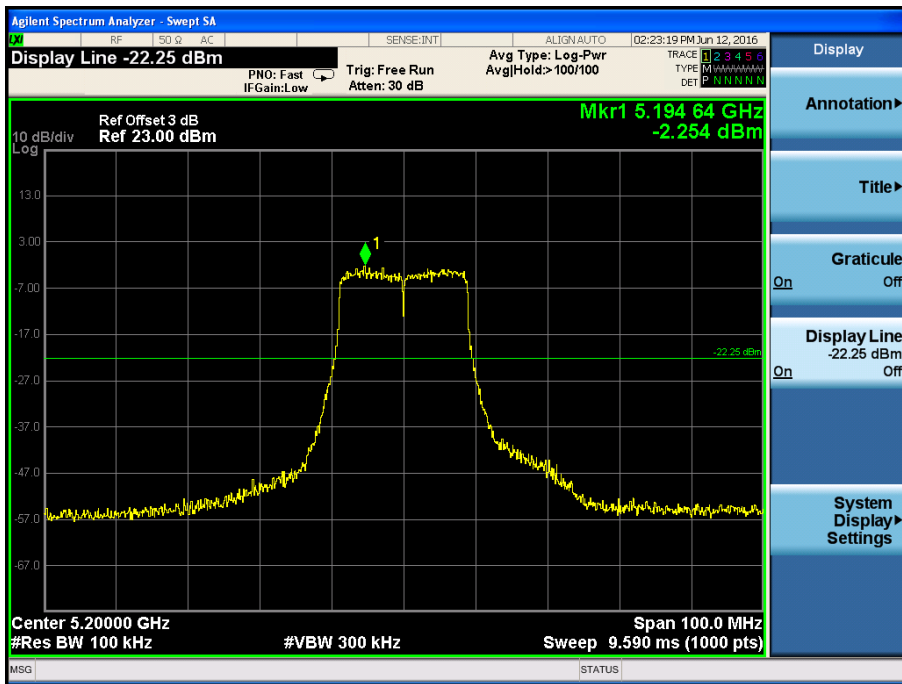
802.11a

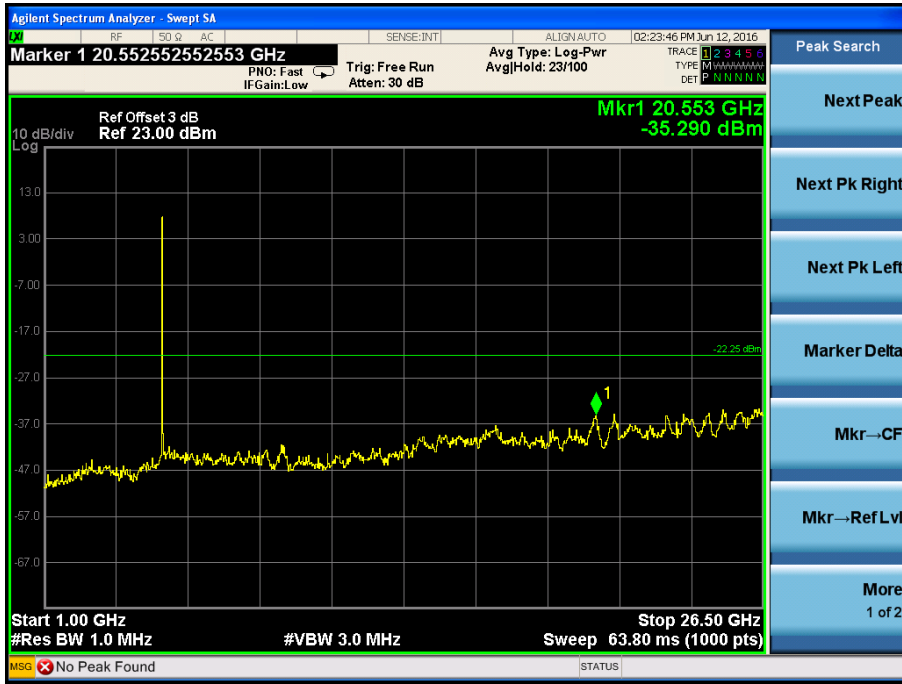
5180MHz



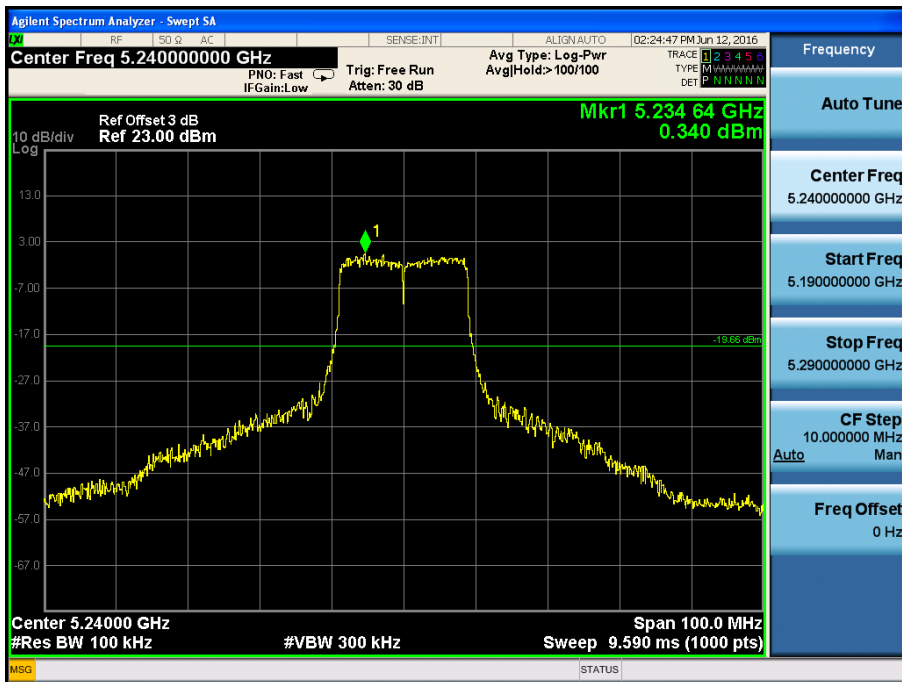


5200MHz



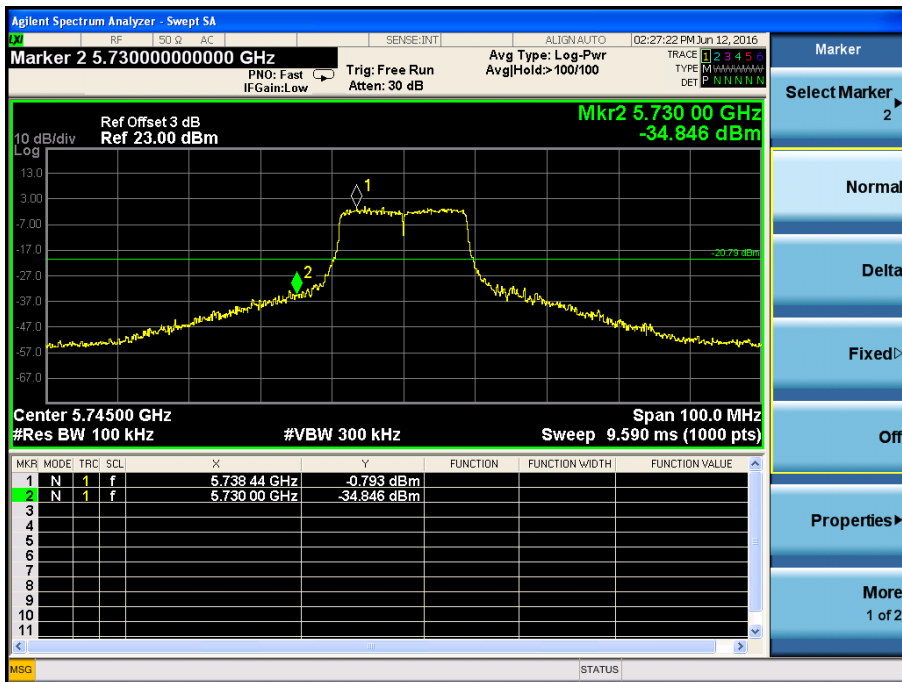


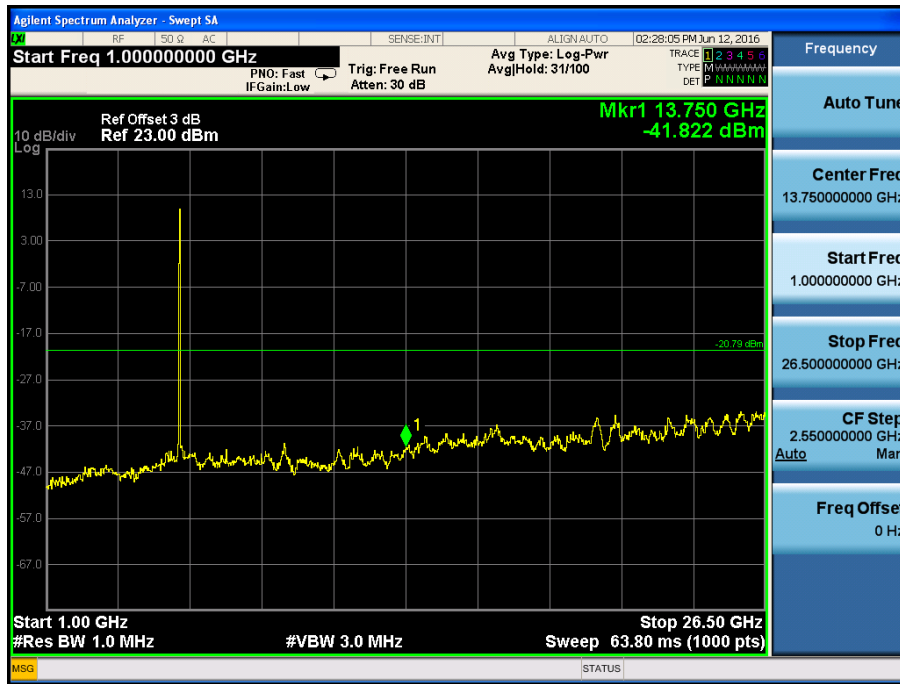
5240MHz



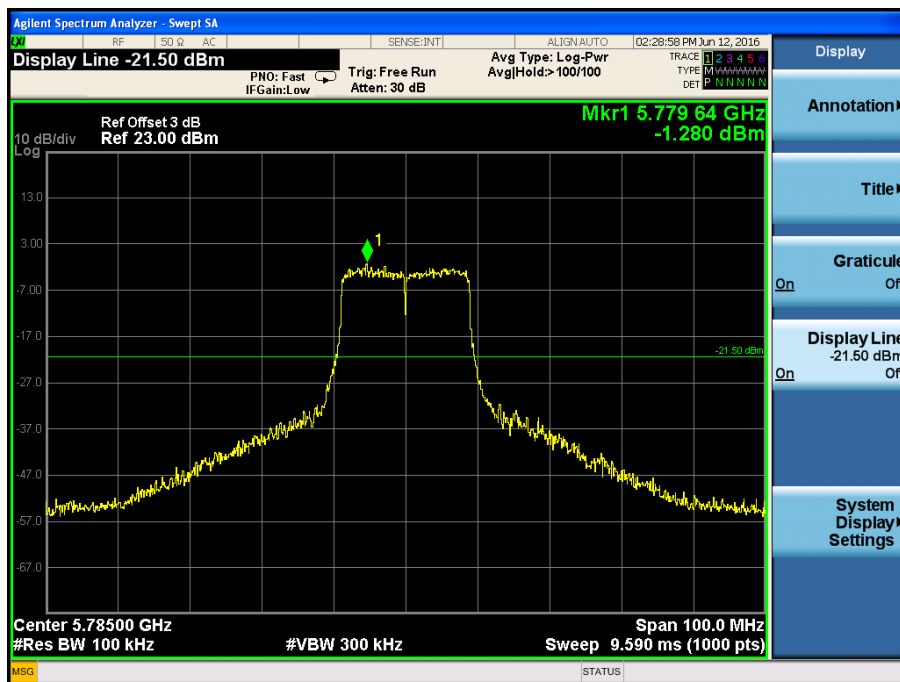


5745MHz

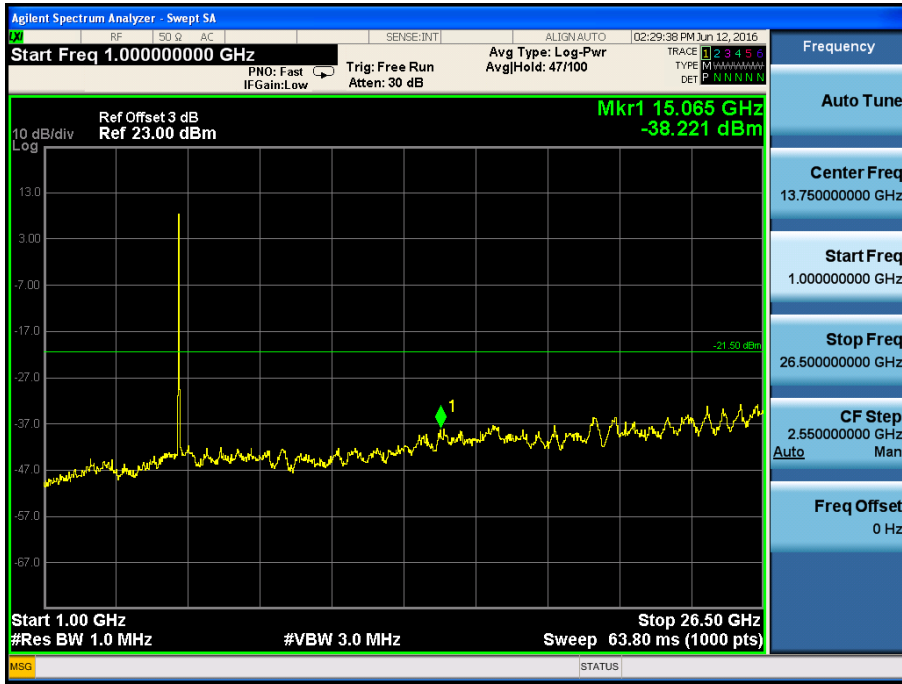




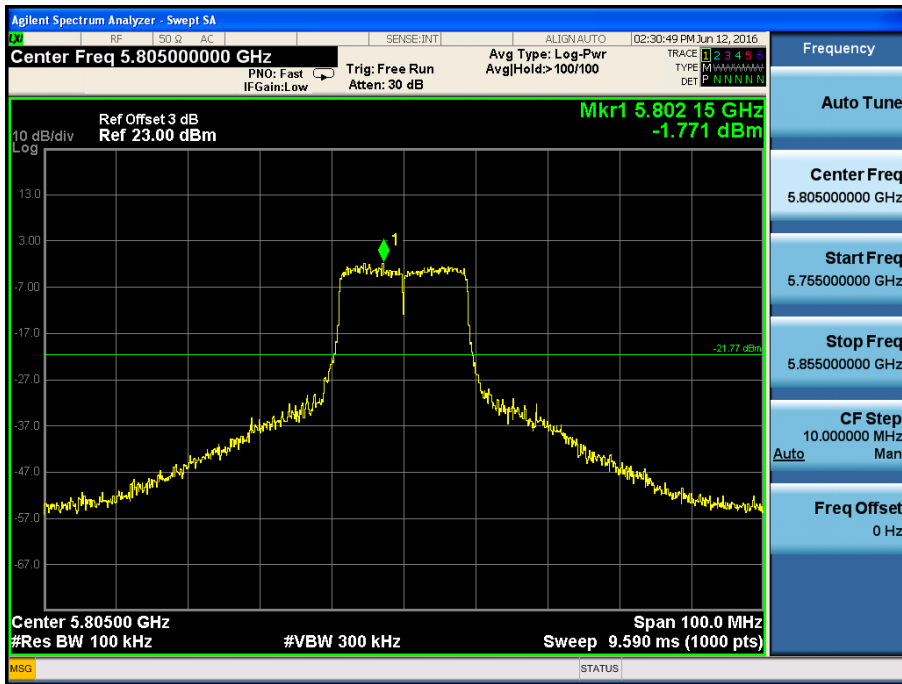
5785MHz

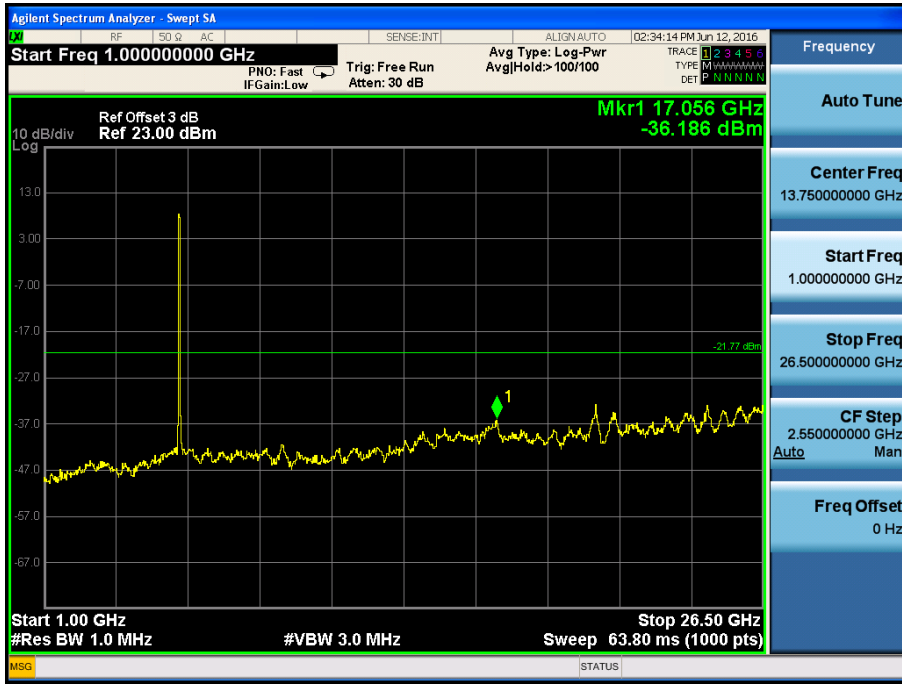




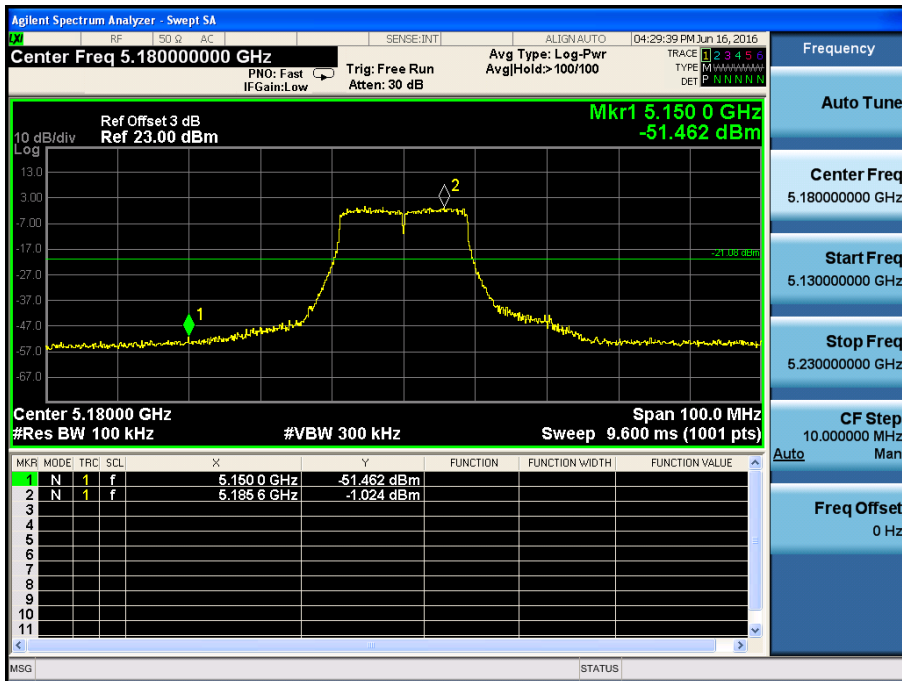


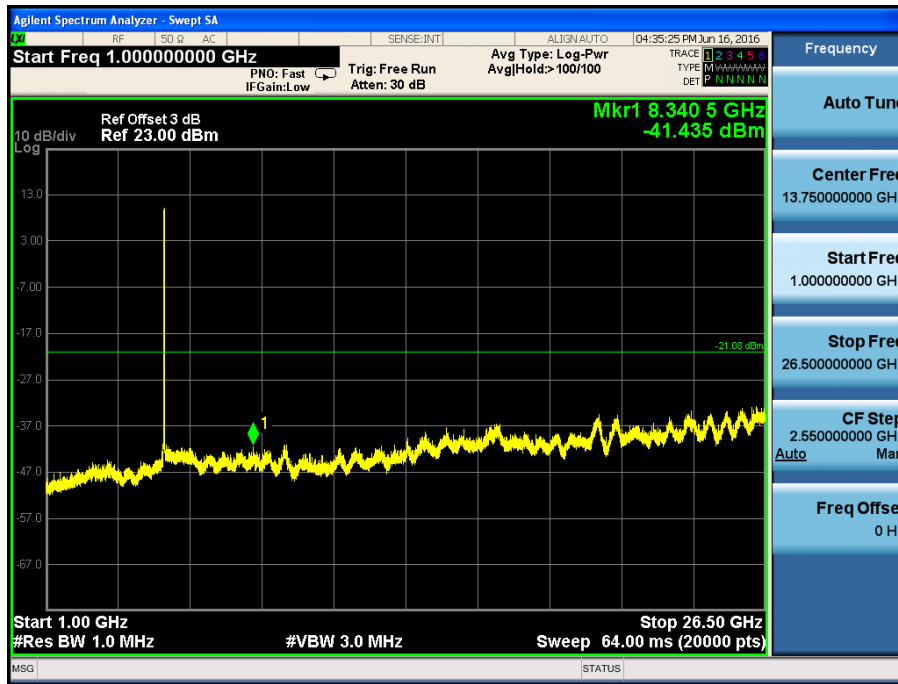
5805MHz



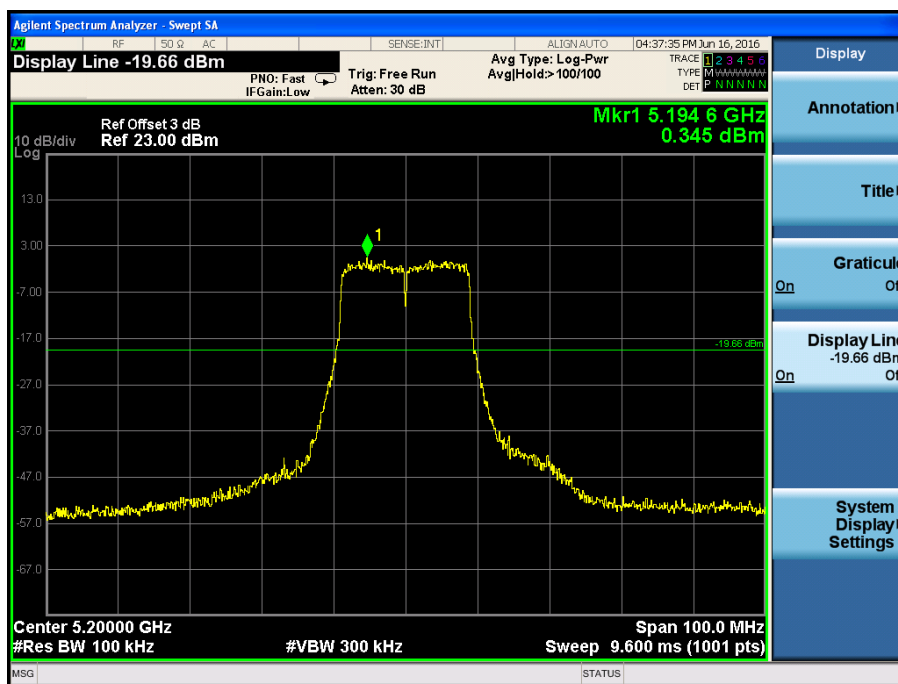


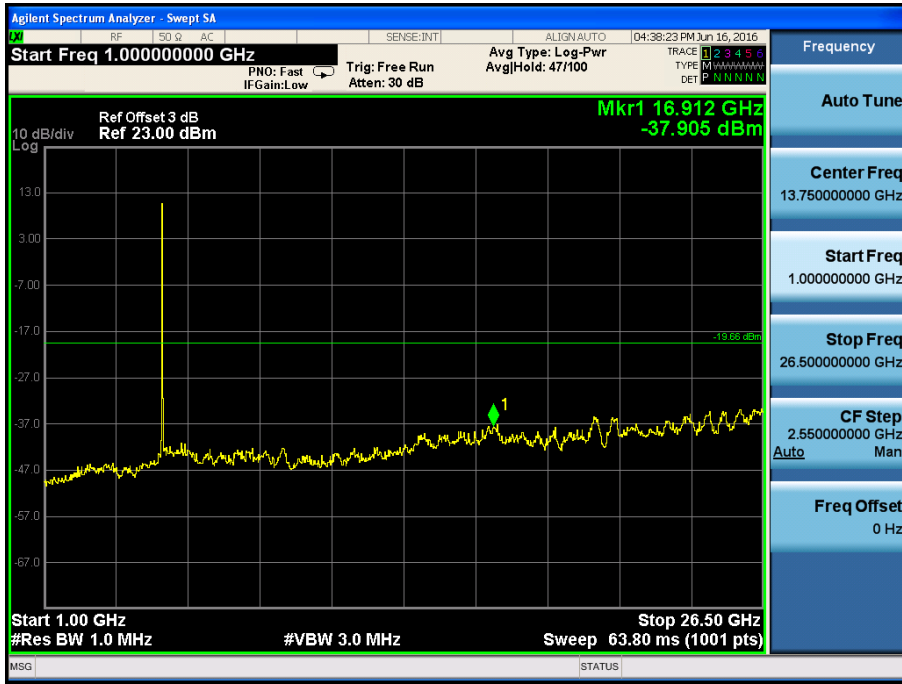
802.11n-HT20  
5180MHz



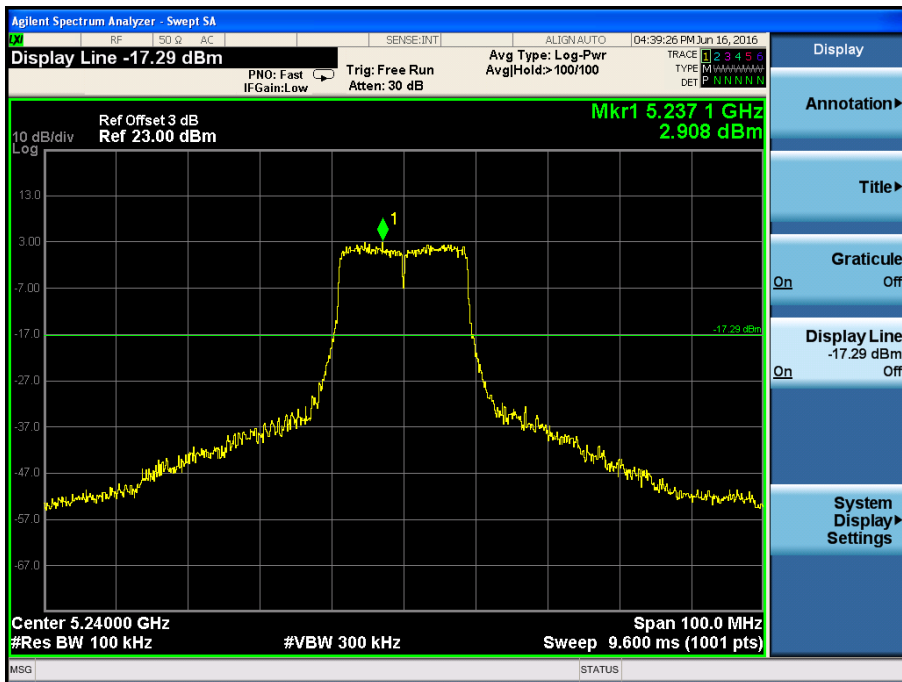


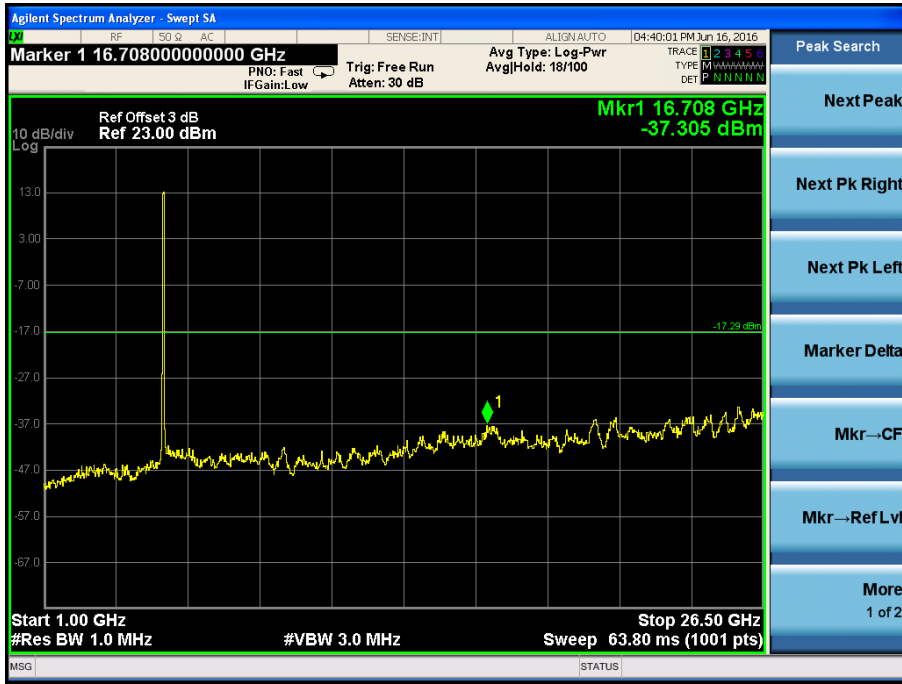
5200MHz



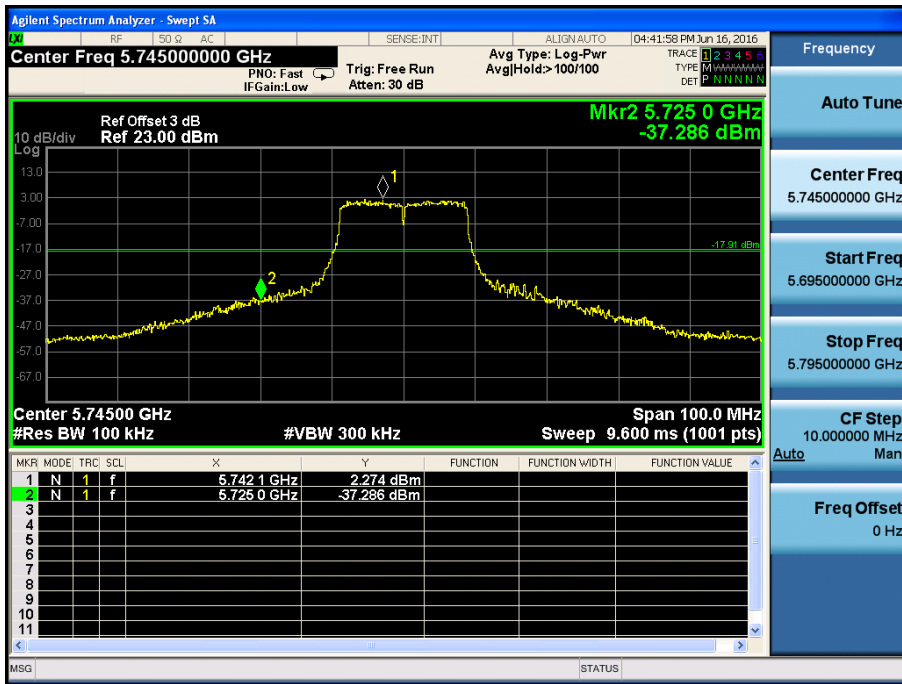


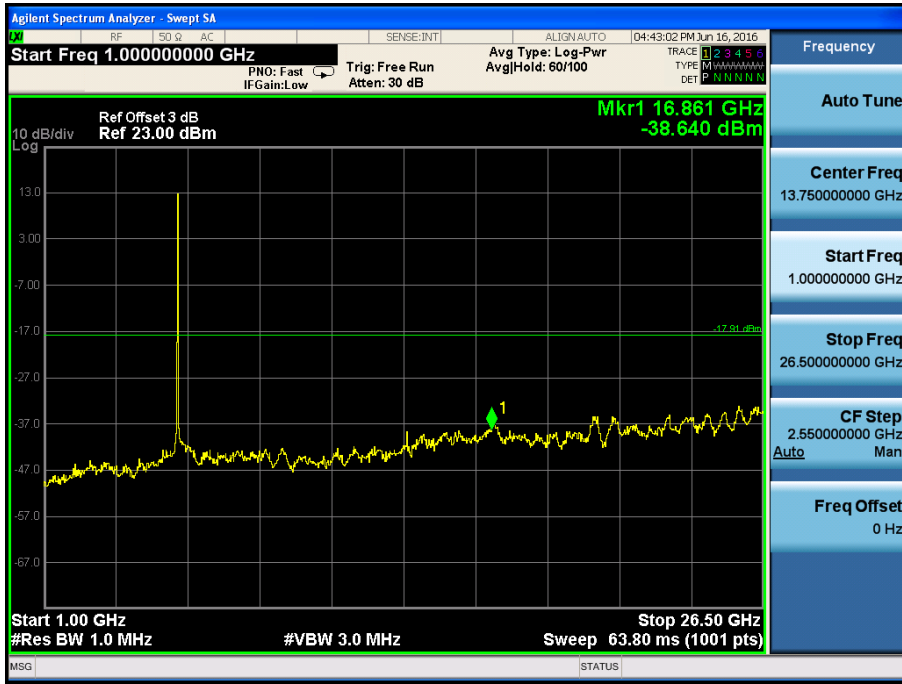
5240MHz



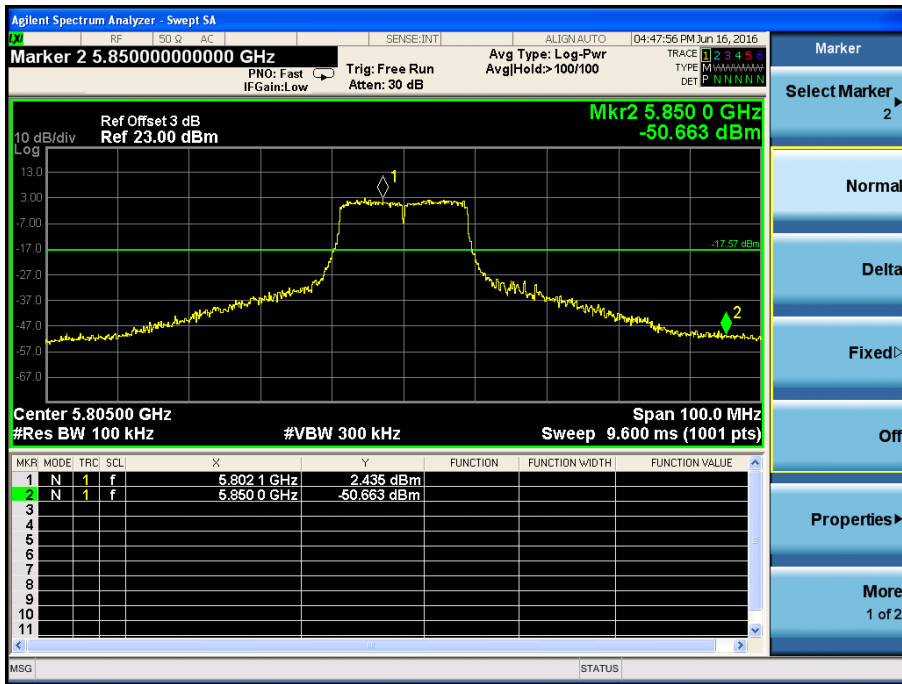


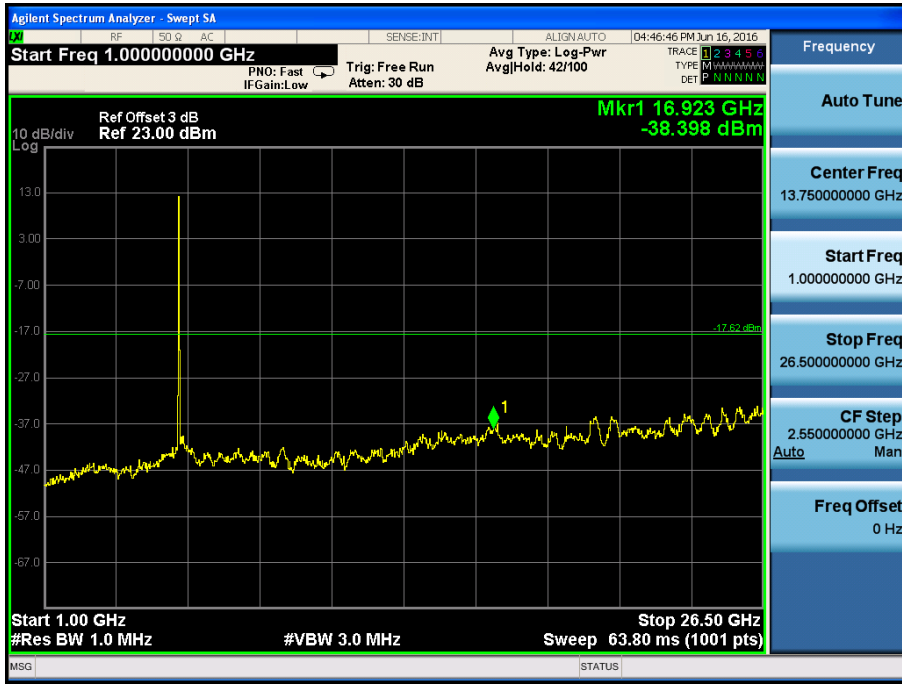
5745MHz



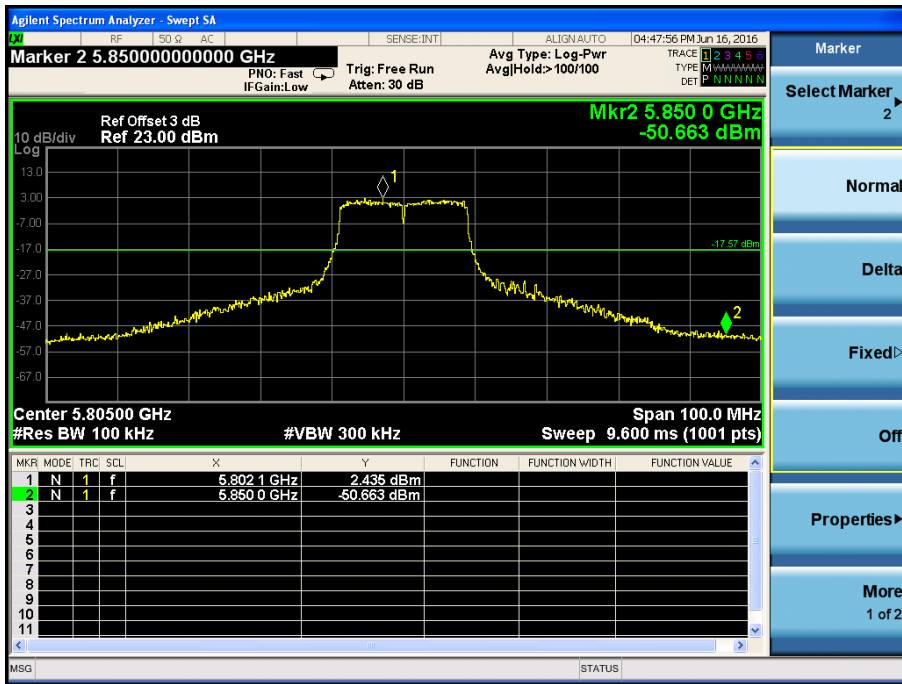


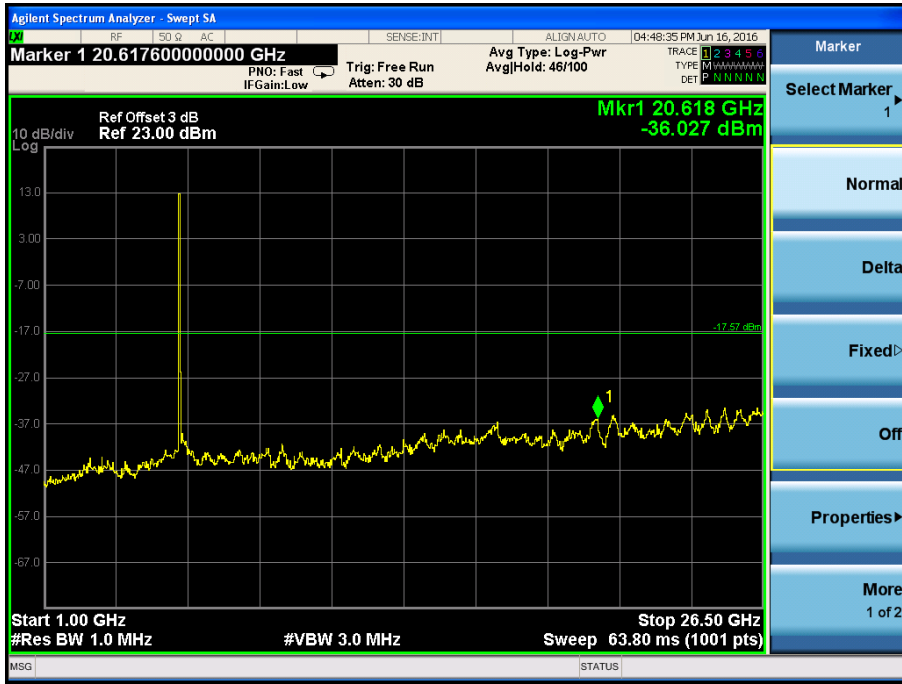
5785MHz





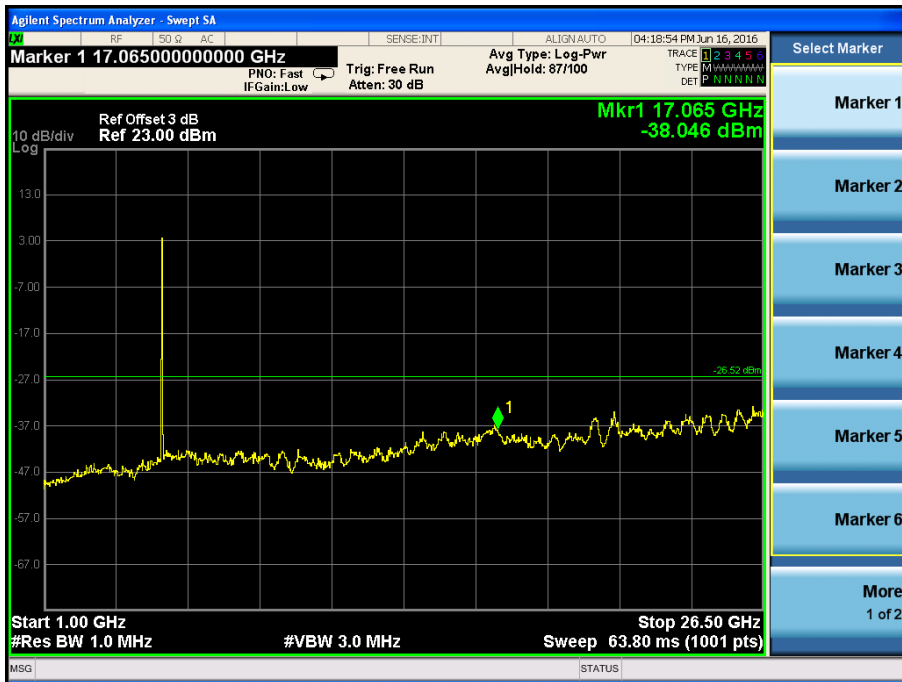
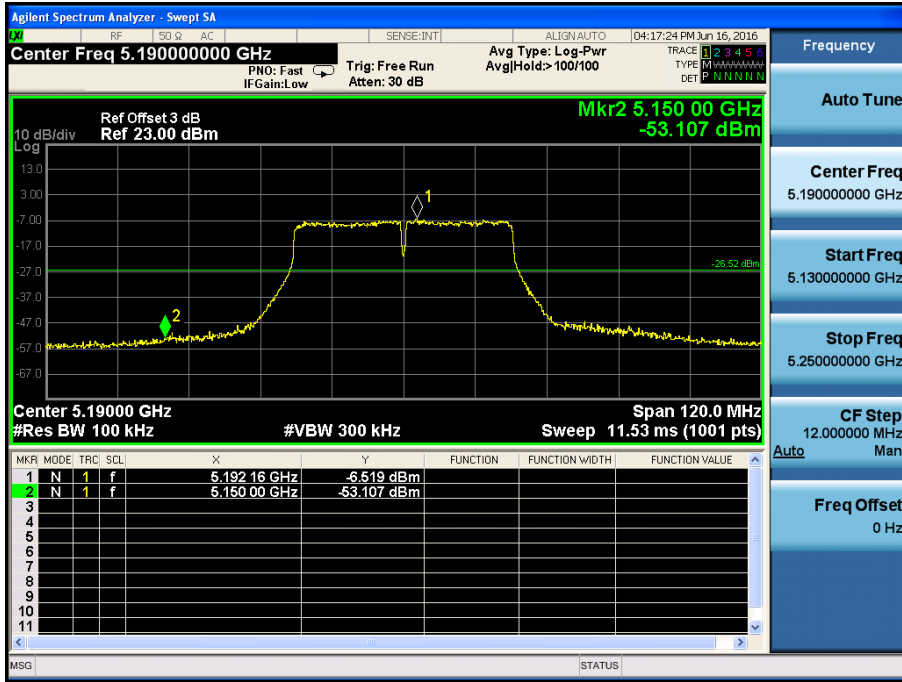
5805MHz



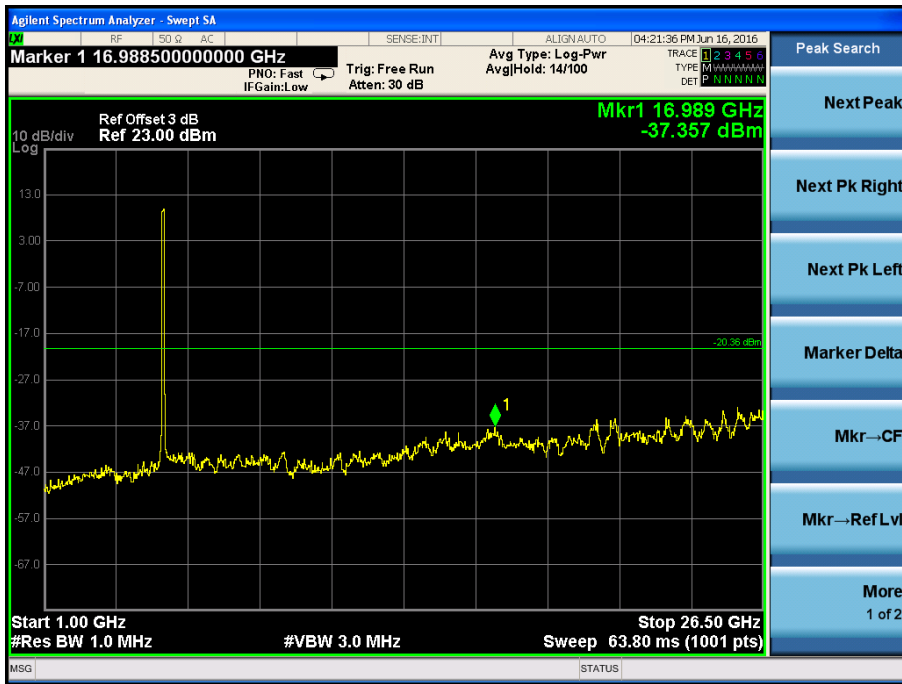
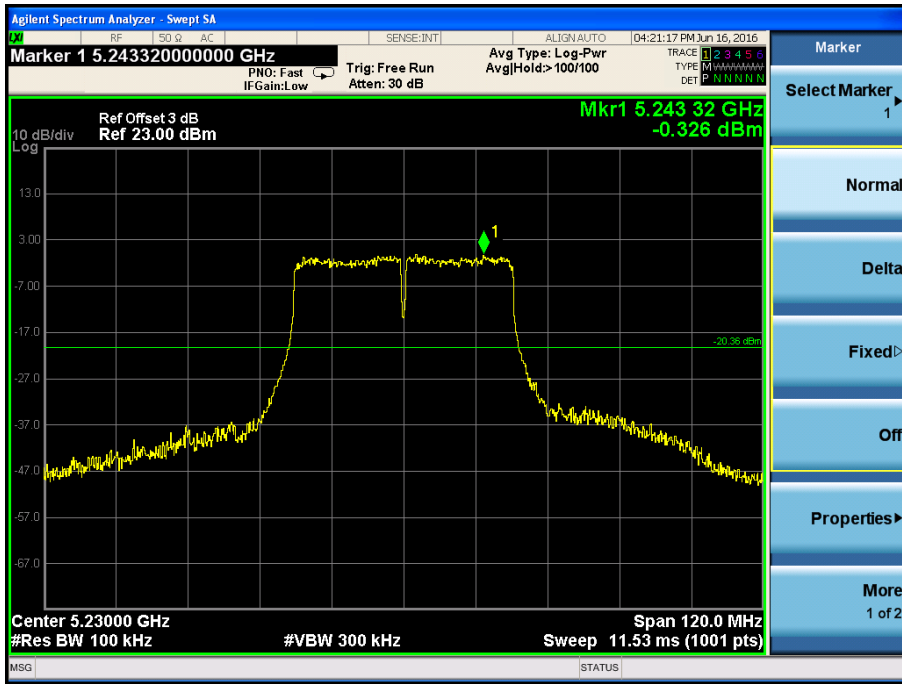




802.11n-HT40  
5190MHz



5230MHz



5755MHz

