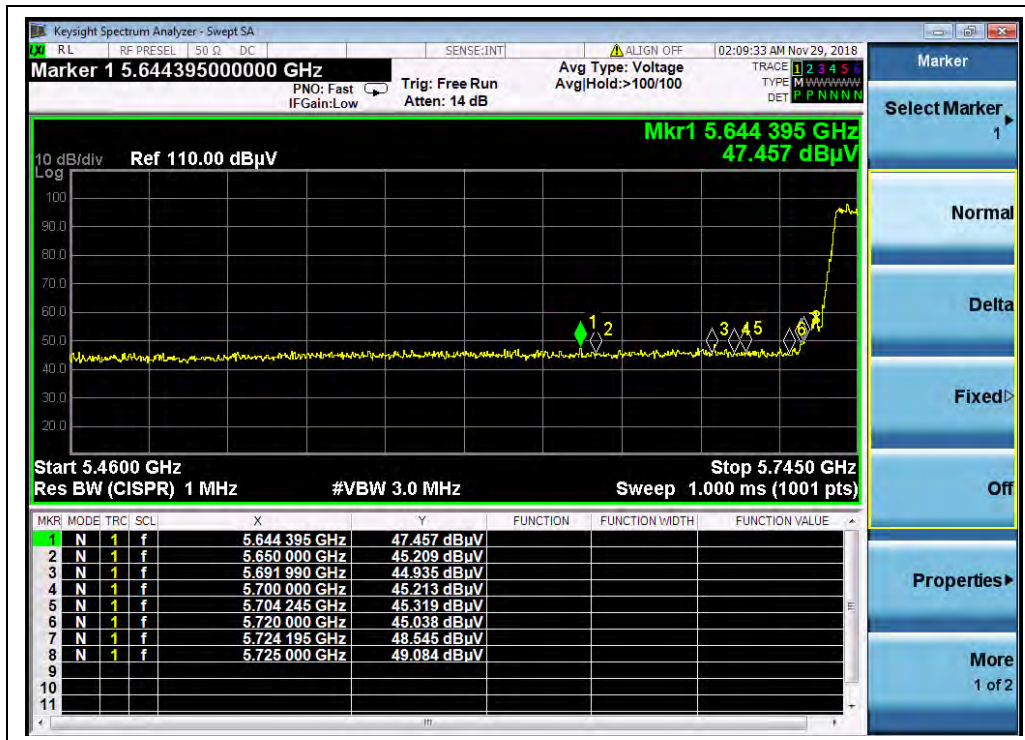
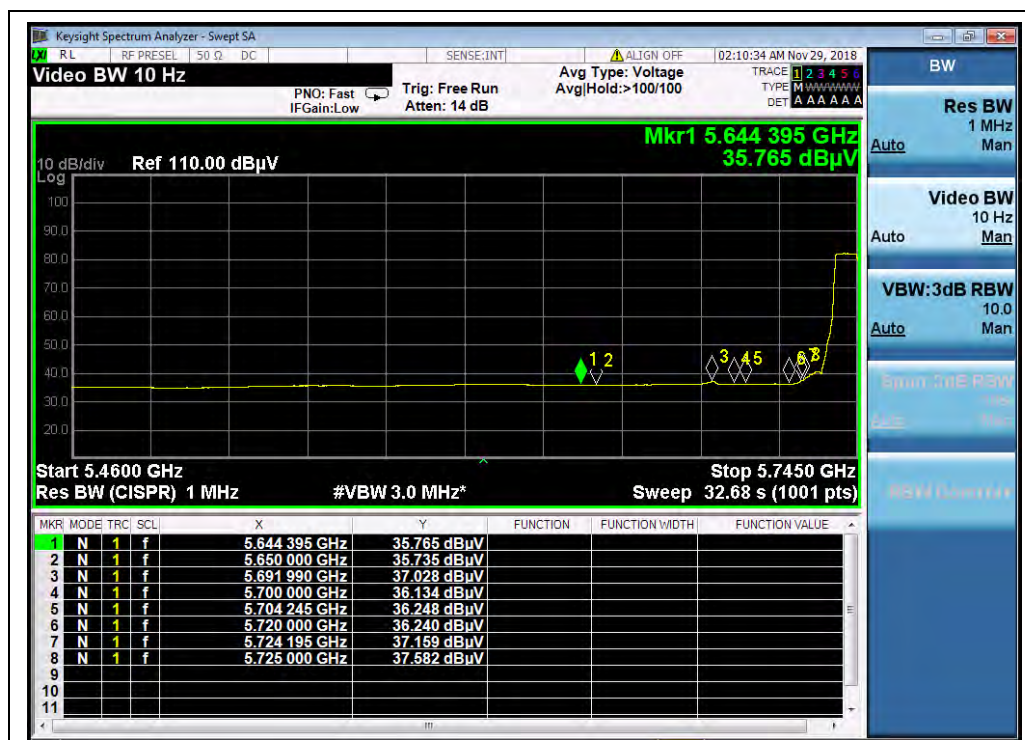
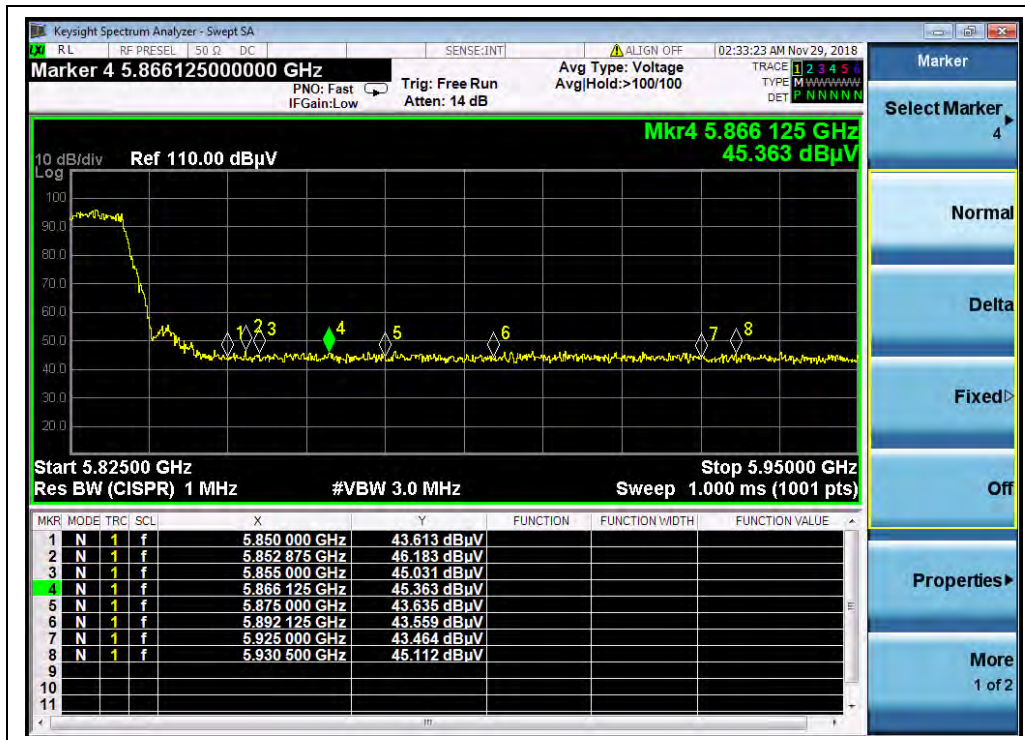




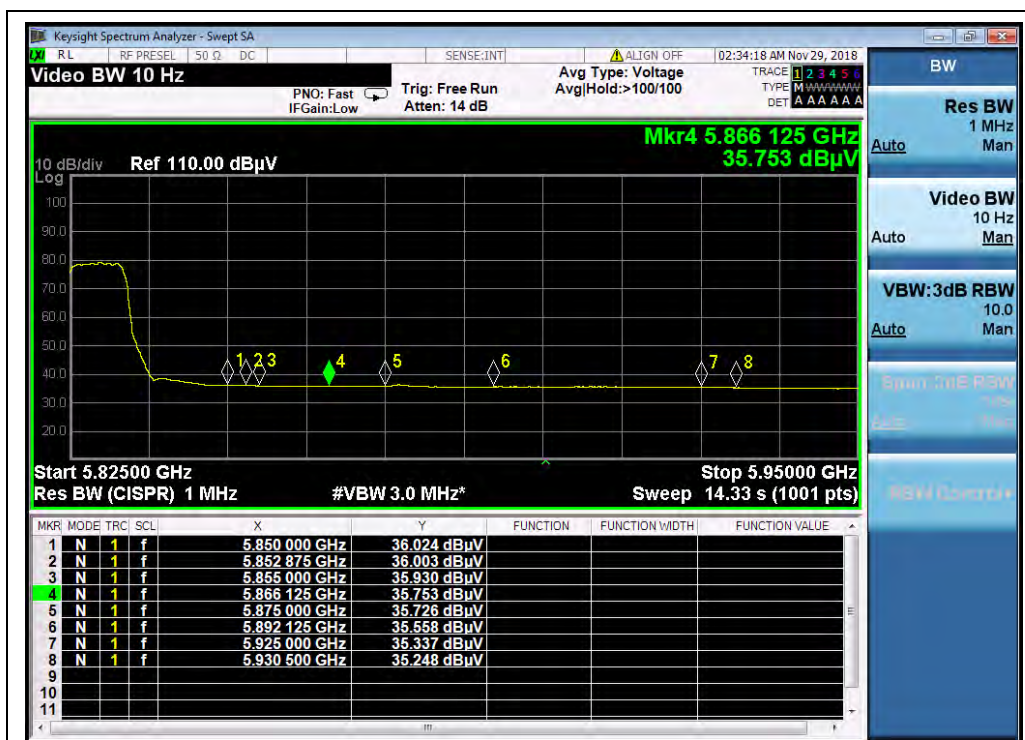
(Channel 149, PEAK, 802.11 n (HT20))



(Channel 149, AVG, 802.11n (HT20))



(Channel 165, PEAK, 802.11 n (HT20))



(Channel 165, AVG, 802.11n (HT20))

**802.11n (HT40) Test mode****A. Test Verdict:**

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBuV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
38	5150.00	PK	49.20	-49.53	32.20	31.87	74	PASS
38	5150.00	AV	39.02	-49.53	32.20	21.69	54	PASS
62	5355.55	PK	45.85	-49.53	32.20	28.52	74	PASS
62	5350.00	AV	35.66	-49.53	32.20	18.33	54	PASS
102	5304.76	PK	49.00	-49.53	32.20	31.67	68.23	PASS
102	5470.00	AV	37.20	-49.53	32.20	19.87	54	PASS
142	5750.77	PK	48.13	-49.53	32.20	30.80	68.23	PASS
142	5725.00	AV	36.90	-49.53	32.20	19.57	54	PASS
151	5725.00	PK	54.00	-49.53	32.20	36.67	122.23	PASS
151	5725.00	AV	38.99	-49.53	32.20	21.66	54	PASS
159	5866.13	PK	45.65	-49.53	32.20	28.32	79.66	PASS
159	5852.88	AV	35.99	-49.53	32.20	18.66	54	PASS



Keysight Spectrum Analyzer - Swept SA

R/L RF PRESEL 50 Ω DC SENSE:INT ALIGN OFF 07:57:01 AM Dec 01, 2018

Marker 1 4.9526600000 GHz Avg Type: Voltage Avg/Hold:>100/100
PNO: Fast IFGain:Low Trig: Free Run Atten: 14 dB TRACE 1 2 3 4 5 6 TYPE M WWWWWW DET P NNNN

10 dB/div Ref 110.00 dB μ V

Mkr1 4.952 66 GHz 48.234 dB μ V

Start 4.5000 GHz Stop 5.1900 GHz
Res BW (CISPR) 1 MHz #VBW 3.0 MHz Sweep 1.400 ms (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	4.952 66 GHz	48.234 dB μ V			
2	N	1	f	5.150 00 GHz	49.197 dB μ V			
3								
4								
5								
6								
7								
8								
9								
10								
11								

Select Marker 1

- Normal
- Delta
- Fixed
- Off

Properties

More 1 of 2

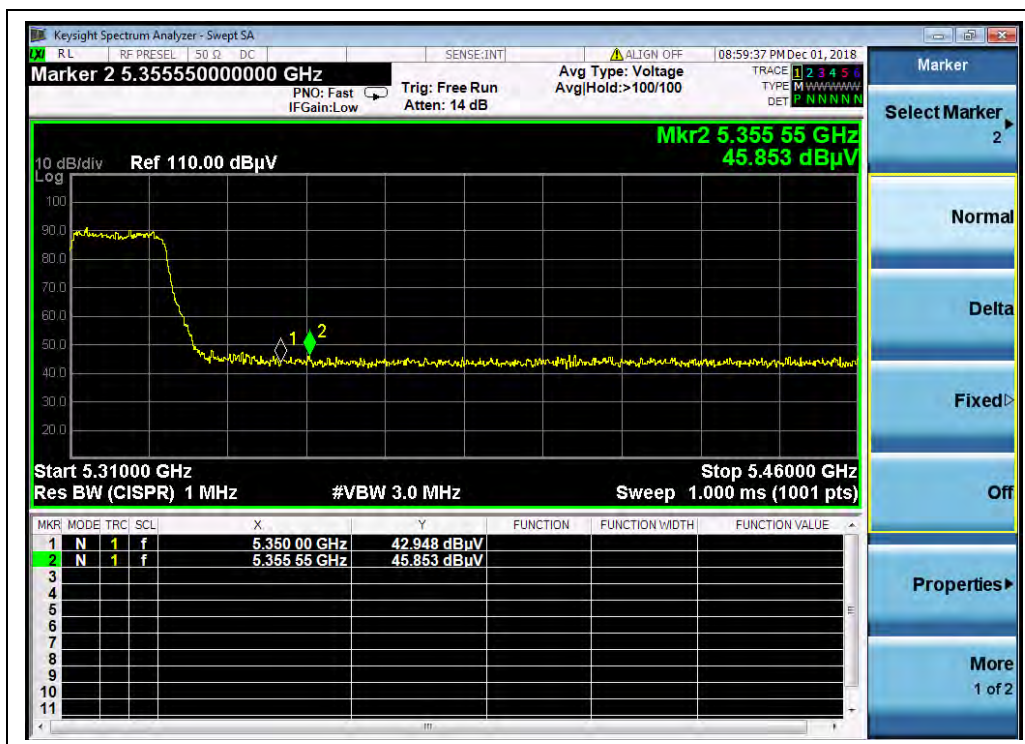
The screenshot displays the Keysight Spectrum Analyzer interface. The main plot shows a frequency spectrum with a green trace. The plot is set to a resolution bandwidth (Res BW) of 1 MHz and a sweep time of 79.12 s. The plot shows a signal at 4.96577 GHz with a power level of 36.431 dBμV. The plot is also labeled with 'Mkr1 4.965 77 GHz' and '36.431 dBμV'.

Below the plot, there is a table with the following columns: MKR, MODE, TRC, SCL, X, Y, FUNCTION, FUNCTION WIDTH, and FUNCTION VALUE. The table contains two rows of data:

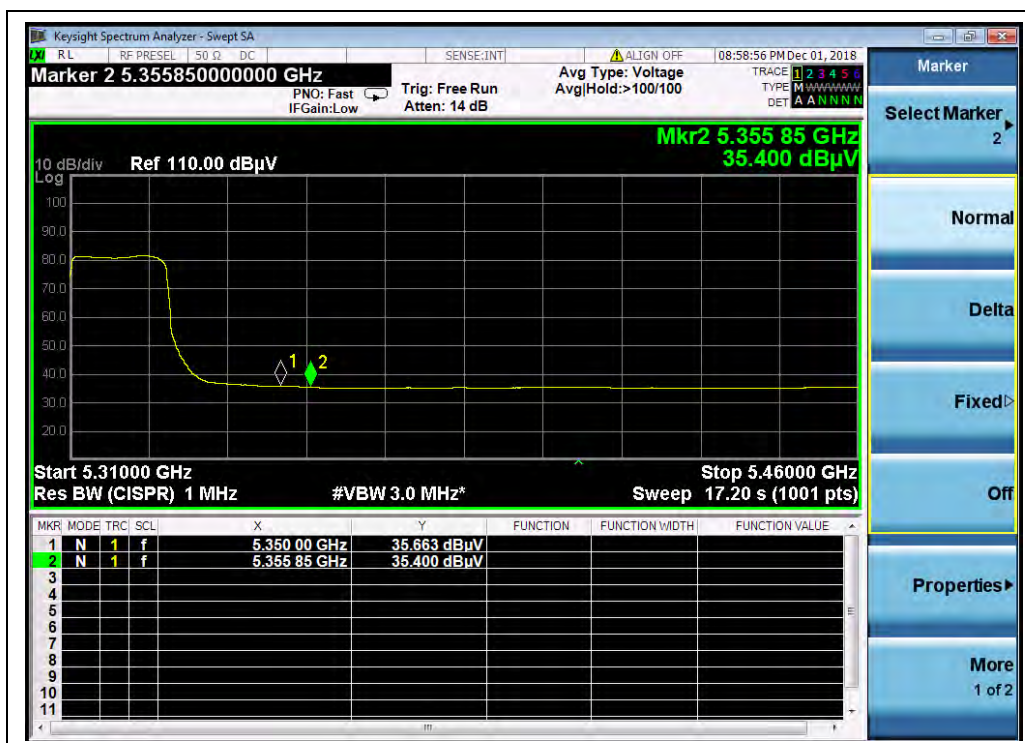
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	4.965 77 GHz	36.431 dBμV			
2	N	1	f	5.150 00 GHz	39.015 dBμV			

The right side of the interface shows a 'Marker' panel with options for 'Select Marker', 'Normal', 'Delta', 'Fixed', and 'Off'. The 'Properties' panel is also visible, showing '1 of 2'.

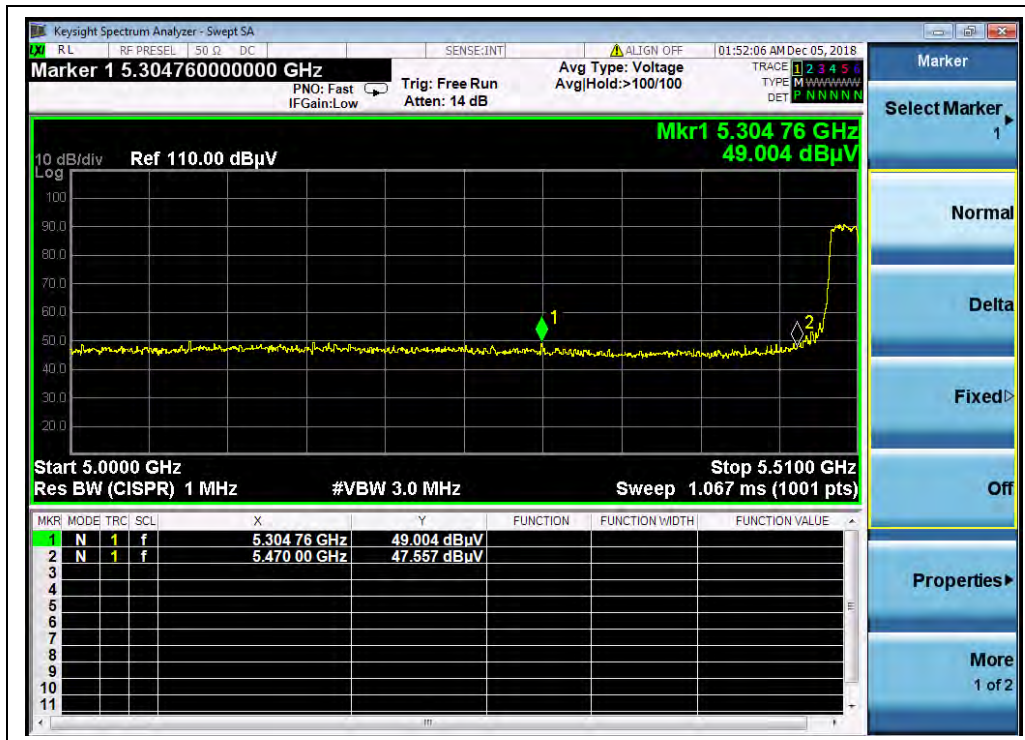
(Channel 38, AVG, 802.11n (HT40))



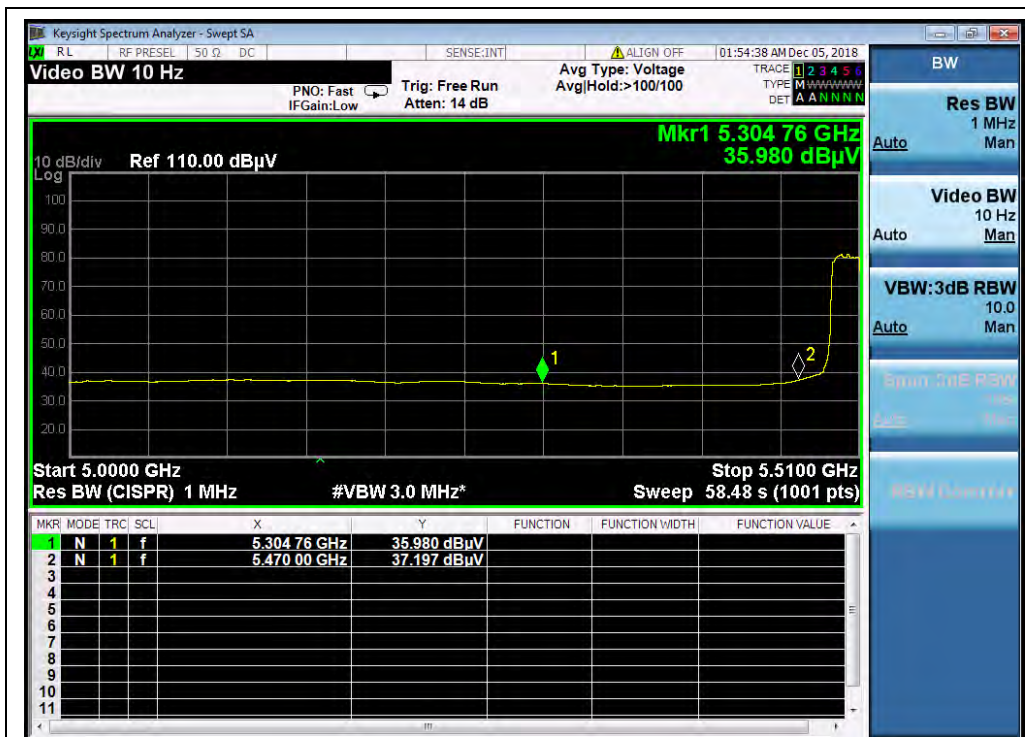
(Channel 62, PEAK, 802.11n (HT40))



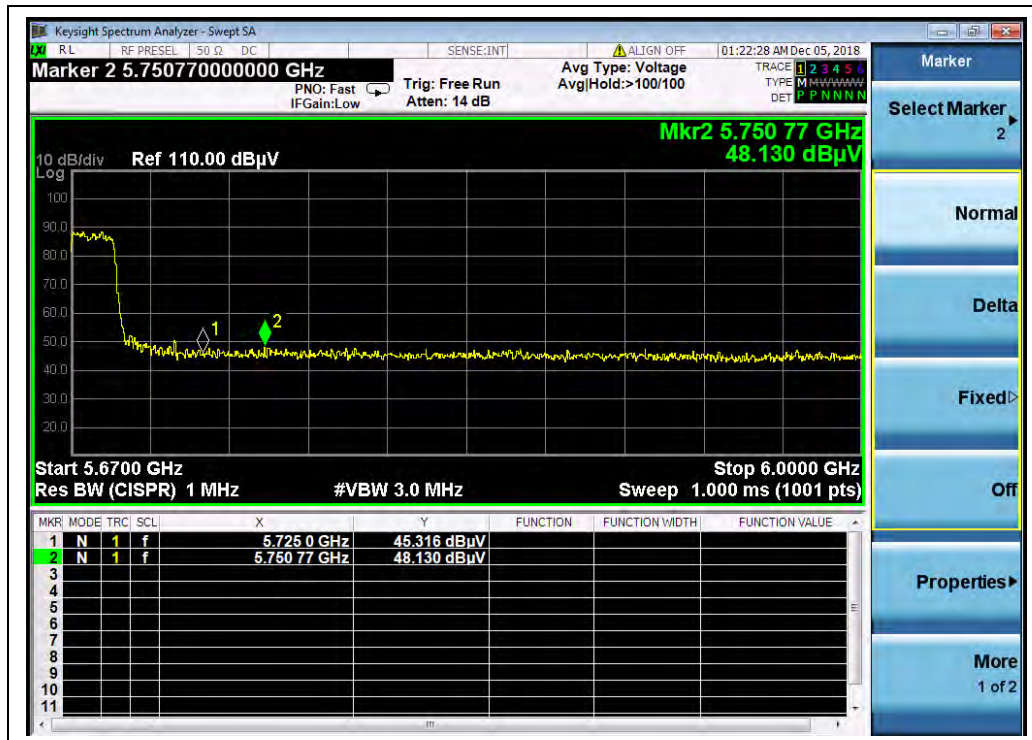
(Channel 62, AVG, 802.11n (HT40))



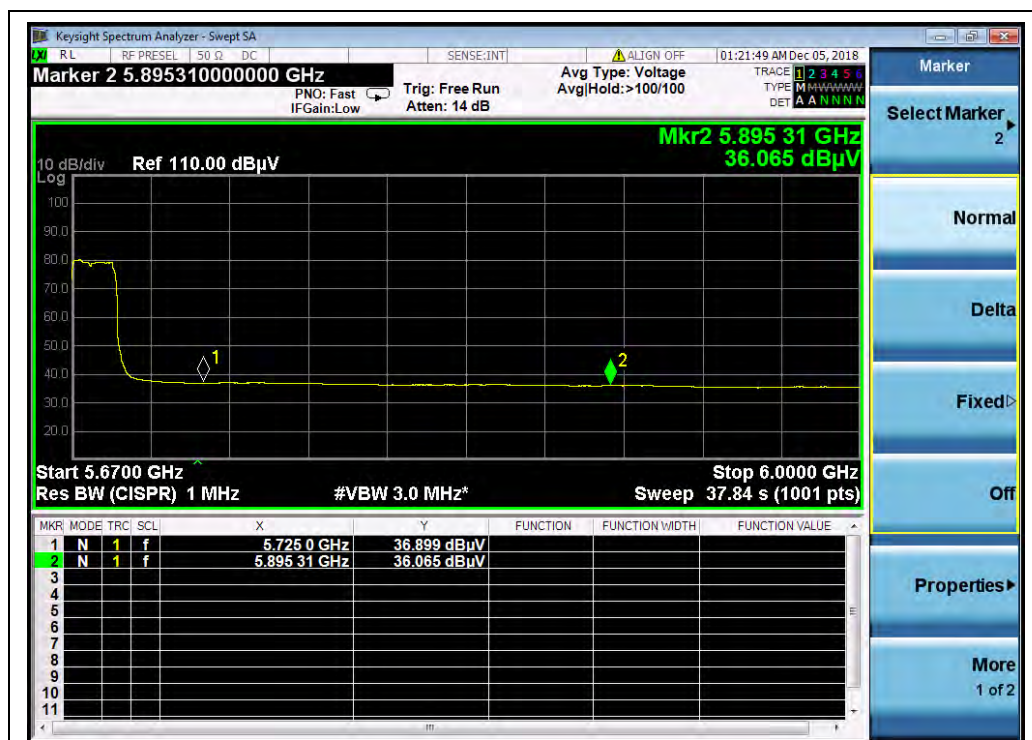
(Channel 102, PEAK, 802.11n (HT40))



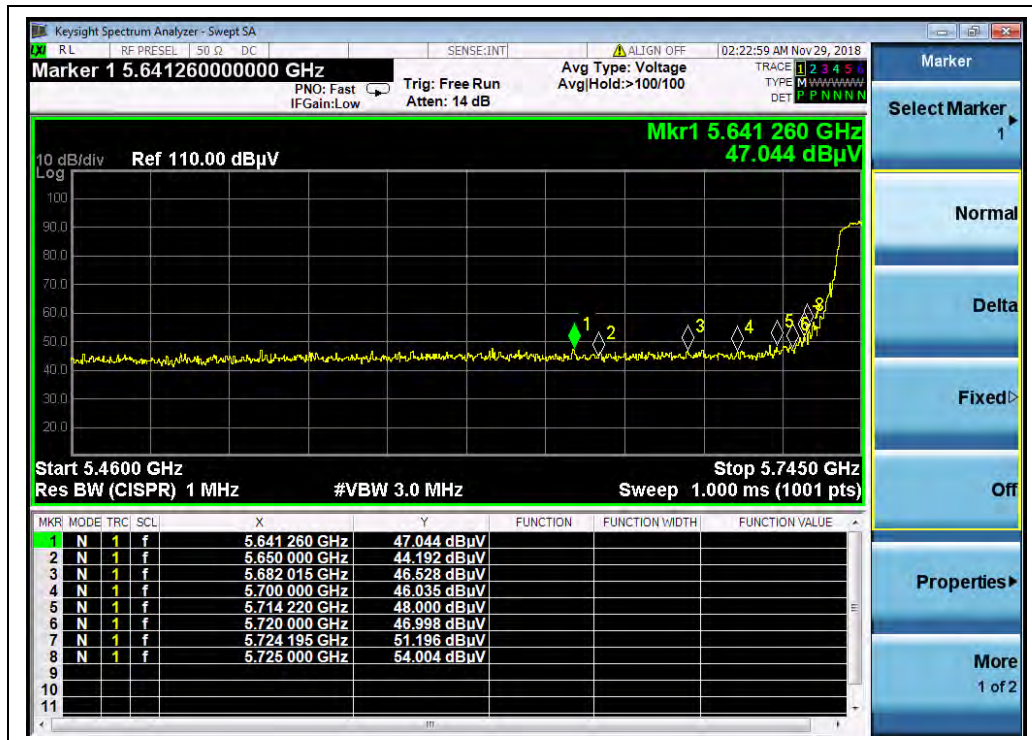
(Channel 102, AVG, 802.11n (HT40))



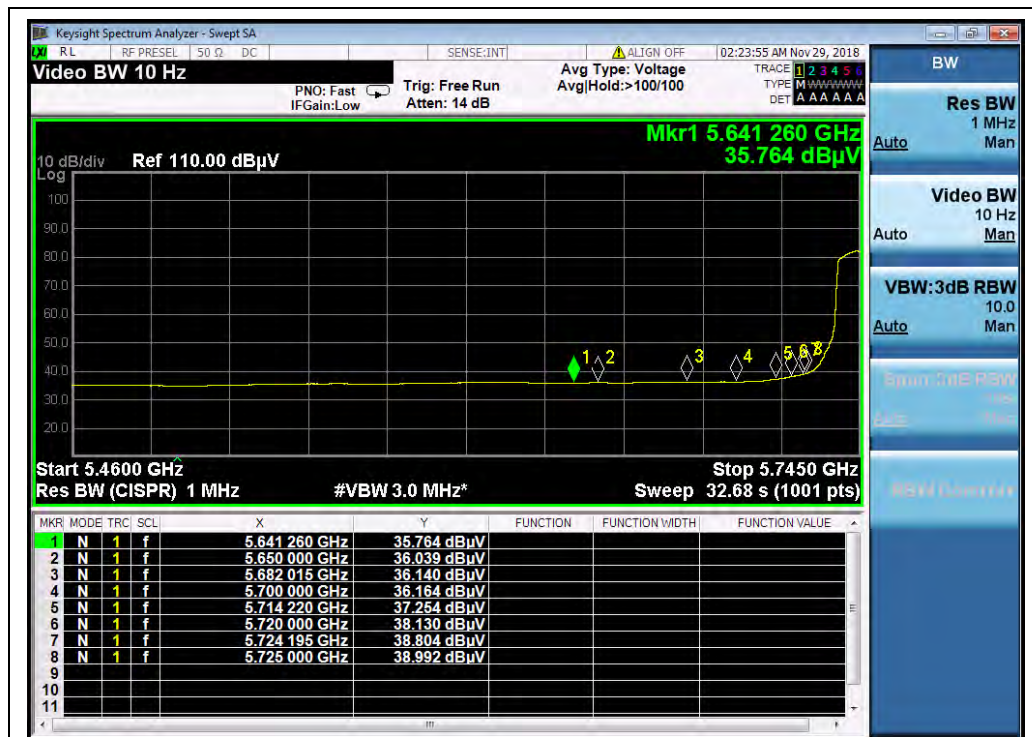
(Channel 142, PEAK, 802.11n (HT40))



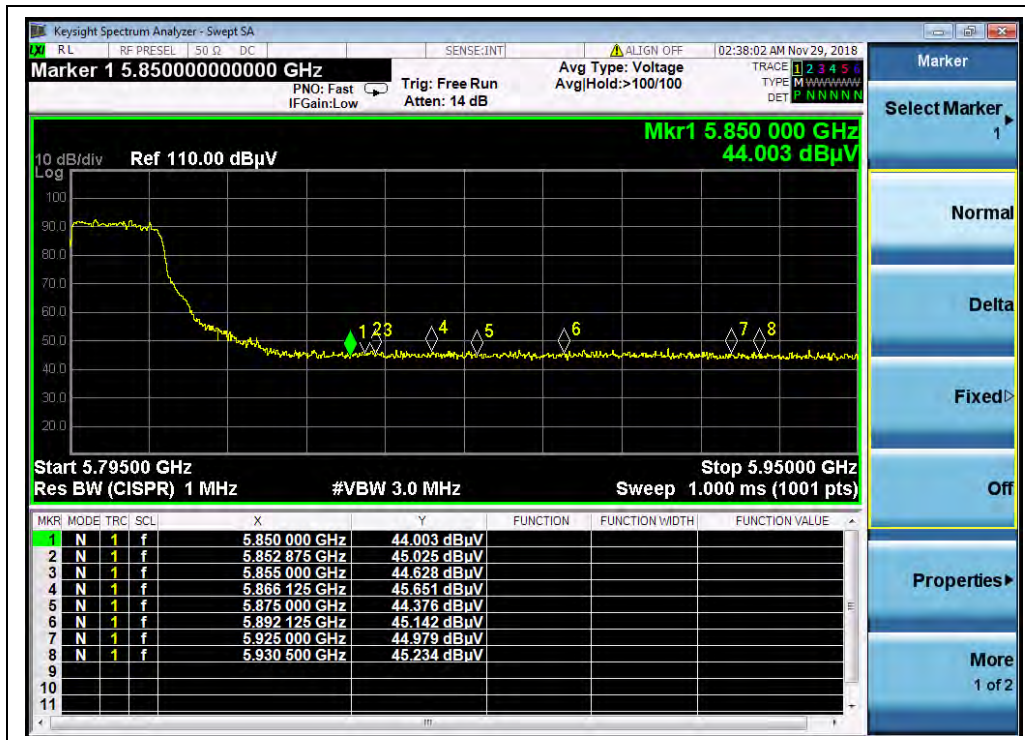
(Channel 142, AVG, 802.11n (HT40))



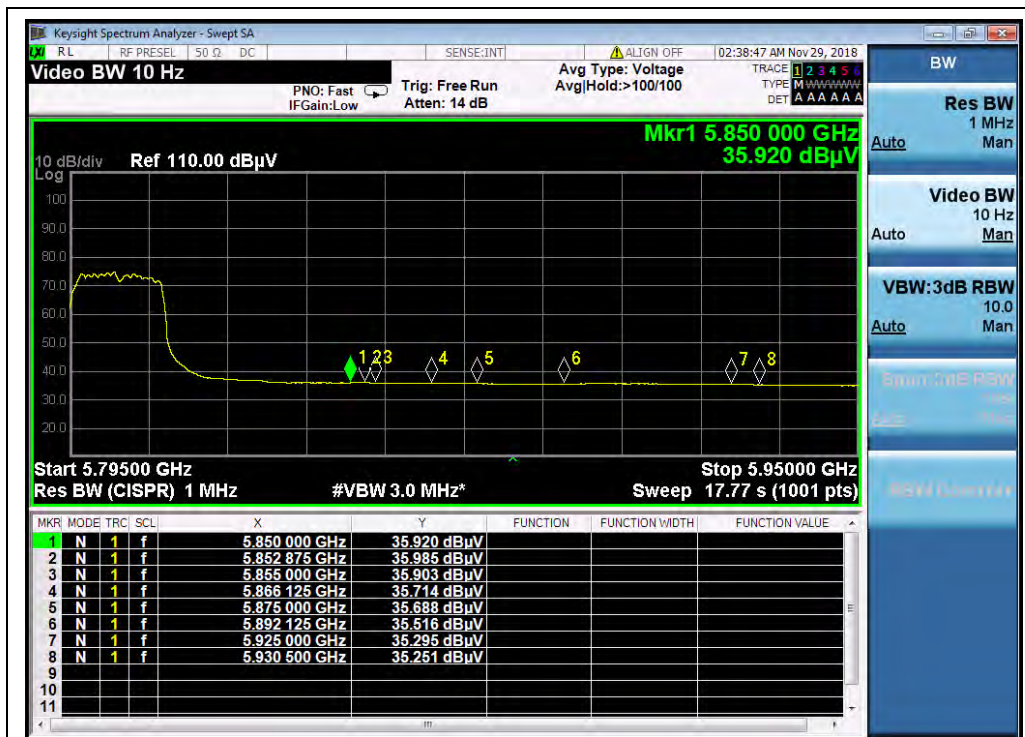
(Channel 151, PEAK, 802.11n (HT40))



(Channel 151, AVG, 802.11n (HT40))



(Channel 159, PEAK, 802.11n (HT40))



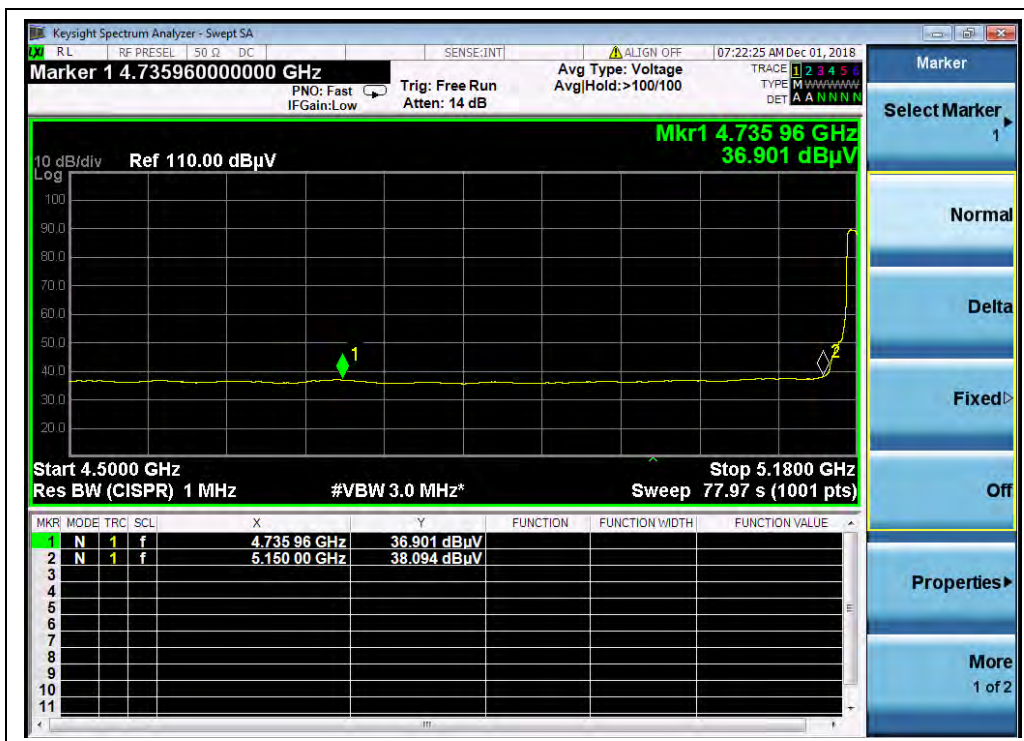
(Channel 159, AVG, 802.11n (HT40))

**802.11ac (VHT20) Test mode****A. Test Verdict:**

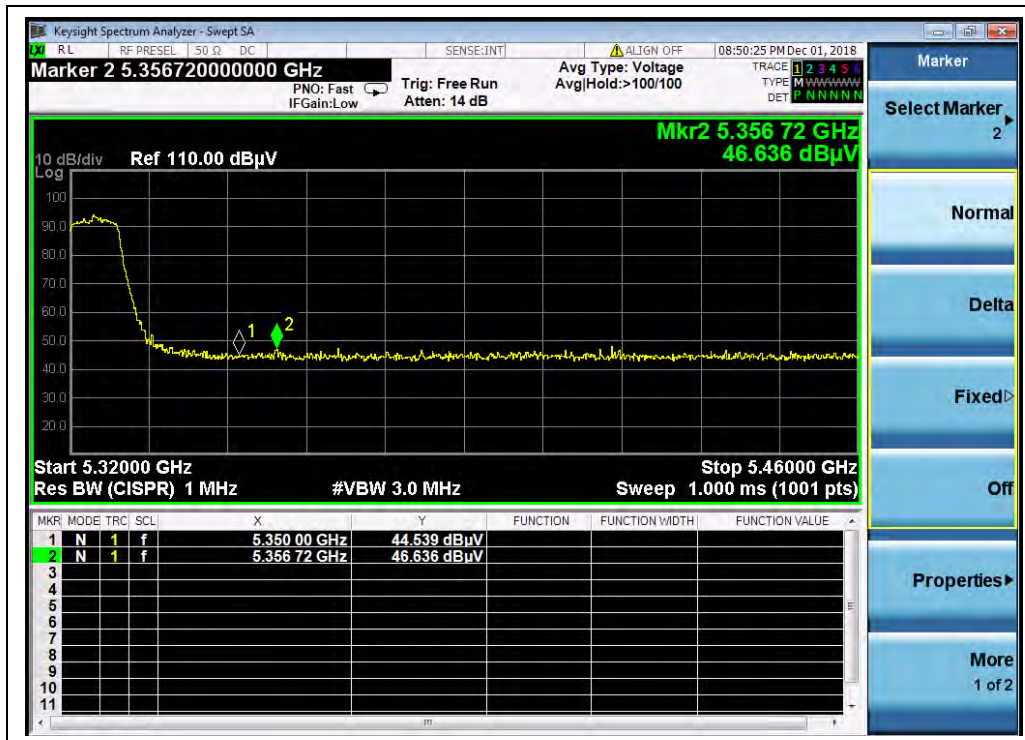
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBuV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
36	4950.16	PK	49.25	-49.53	32.20	31.92	74	PASS
36	5150.00	AV	38.09	-49.53	32.20	20.76	54	PASS
64	5356.72	PK	46.64	-49.53	32.20	29.31	74	PASS
64	5350.00	AV	35.41	-49.53	32.20	18.08	54	PASS
100	5161.00	PK	46.00	-49.53	32.20	28.67	68.23	PASS
100	5244.50	AV	33.81	-49.53	32.20	16.48	54	PASS
144	5866.20	PK	45.37	-49.53	32.20	28.04	68.23	PASS
144	5736.30	AV	33.98	-49.53	32.20	16.65	54	PASS
149	5724.20	PK	49.83	-49.53	32.20	32.5	120.40	PASS
149	5725.00	AV	37.64	-49.53	32.20	20.31	54	PASS
165	5850.00	PK	45.37	-49.53	32.20	28.04	122.23	PASS
165	5750.00	AV	35.97	-49.53	32.20	18.64	54	PASS

[illegible]

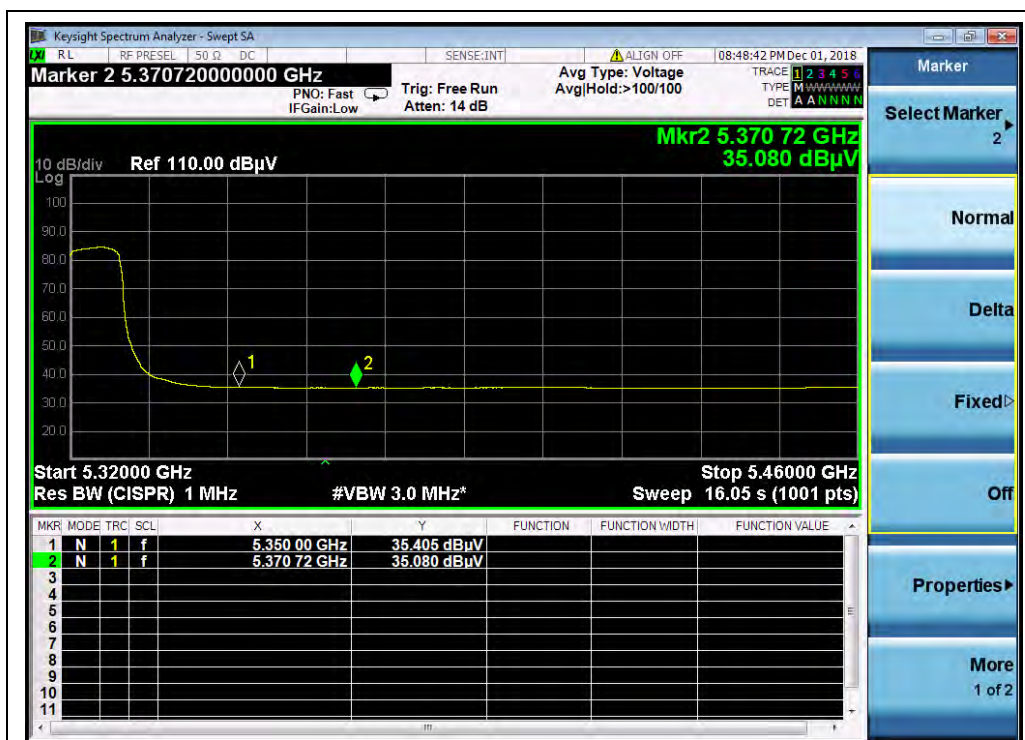
(Channel 36, PEAK, 802.11 ac (VHT20))



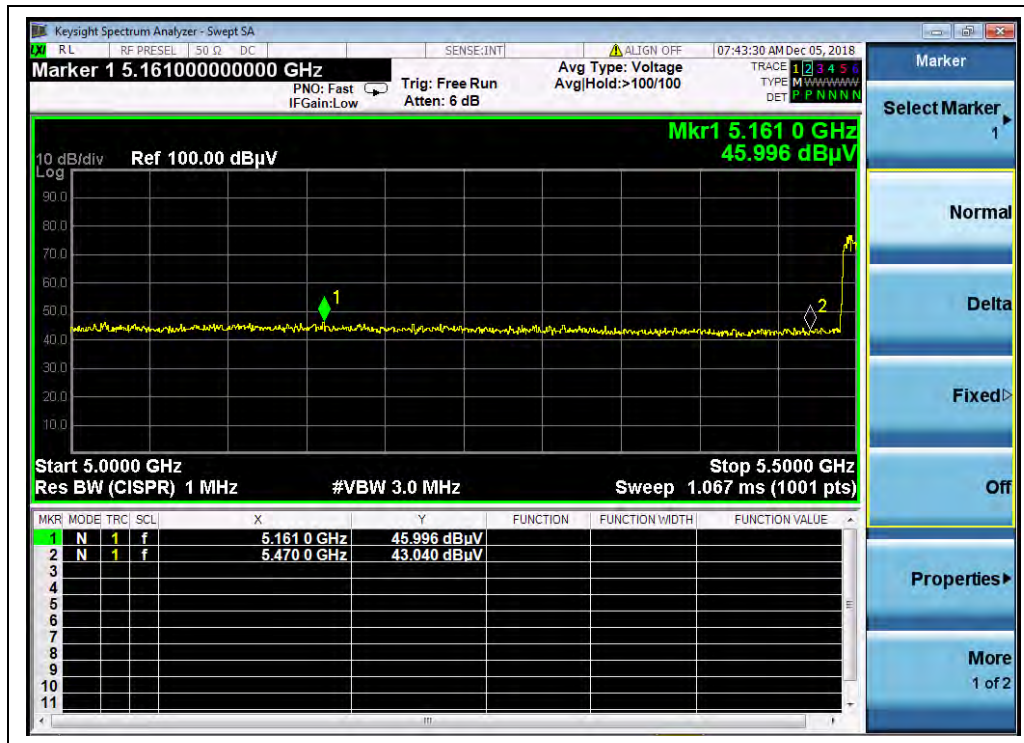
(Channel 36, AVG, 802.11 ac (VHT20))



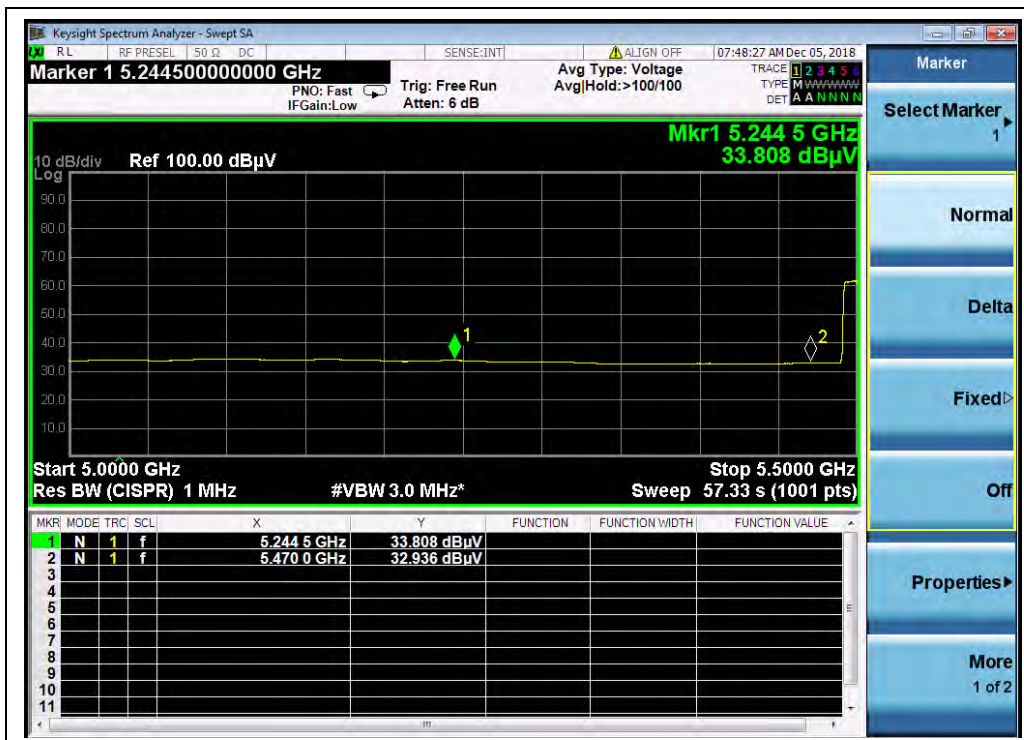
(Channel 64, PEAK, 802.11 ac (VHT20))



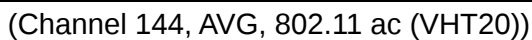
(Channel 64, AVG, 802.11 ac (VHT20))

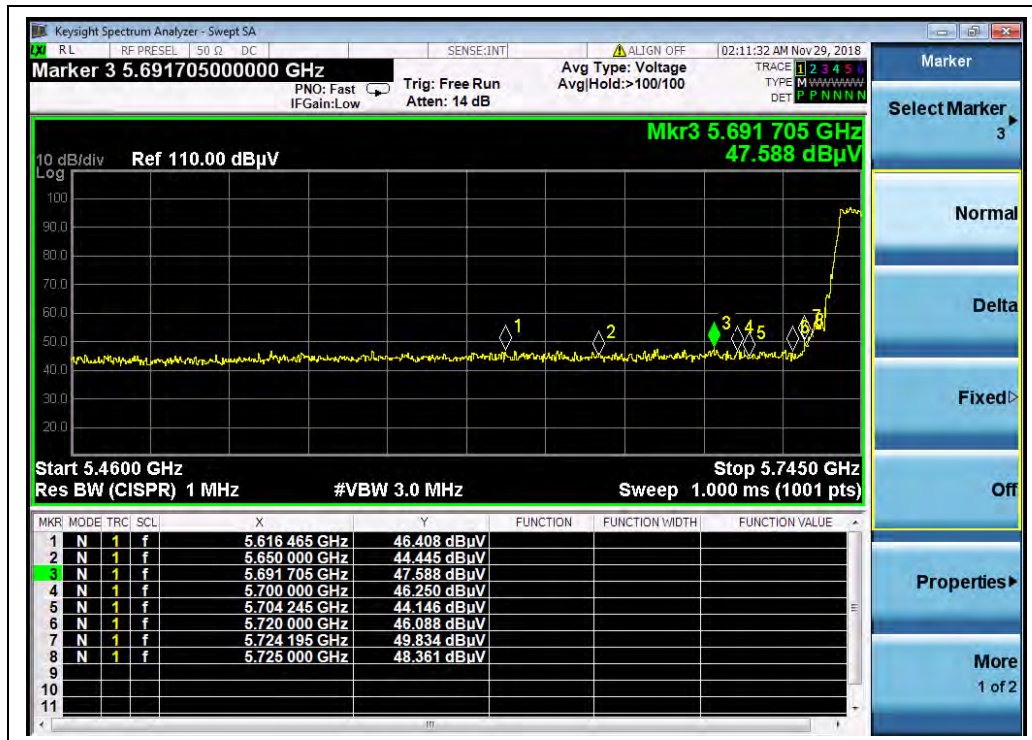


(Channel 100, PEAK, 802.11 ac (VHT20))



(Channel 100, AVG, 802.11 ac (VHT20))

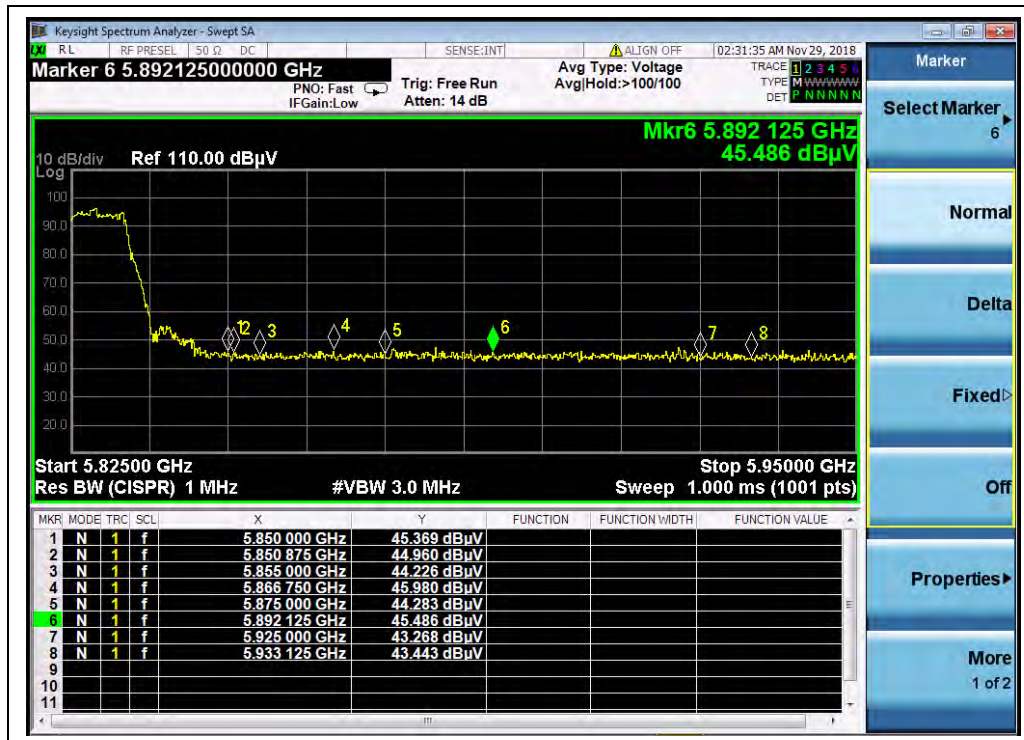




(Channel 149, PEAK, 802.11 ac (VHT20))



(Channel 149, AVG, 802.11 ac (VHT20))



(Channel 165, PEAK, 802.11 ac (VHT20))

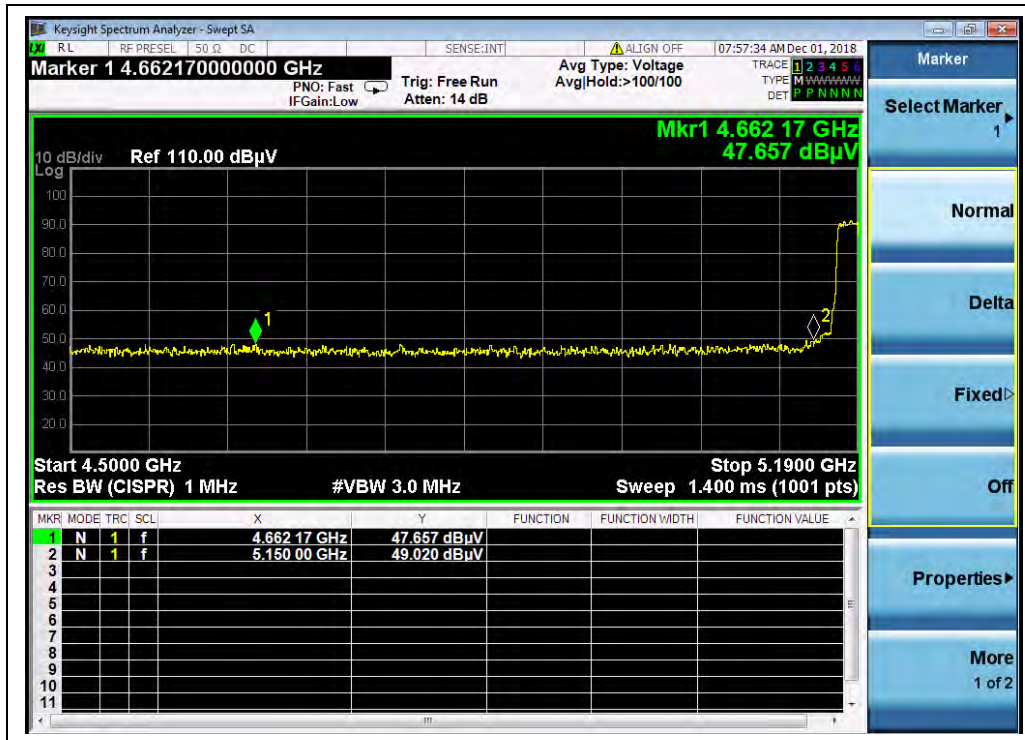


(Channel 165, AVG, 802.11 ac (VHT20))

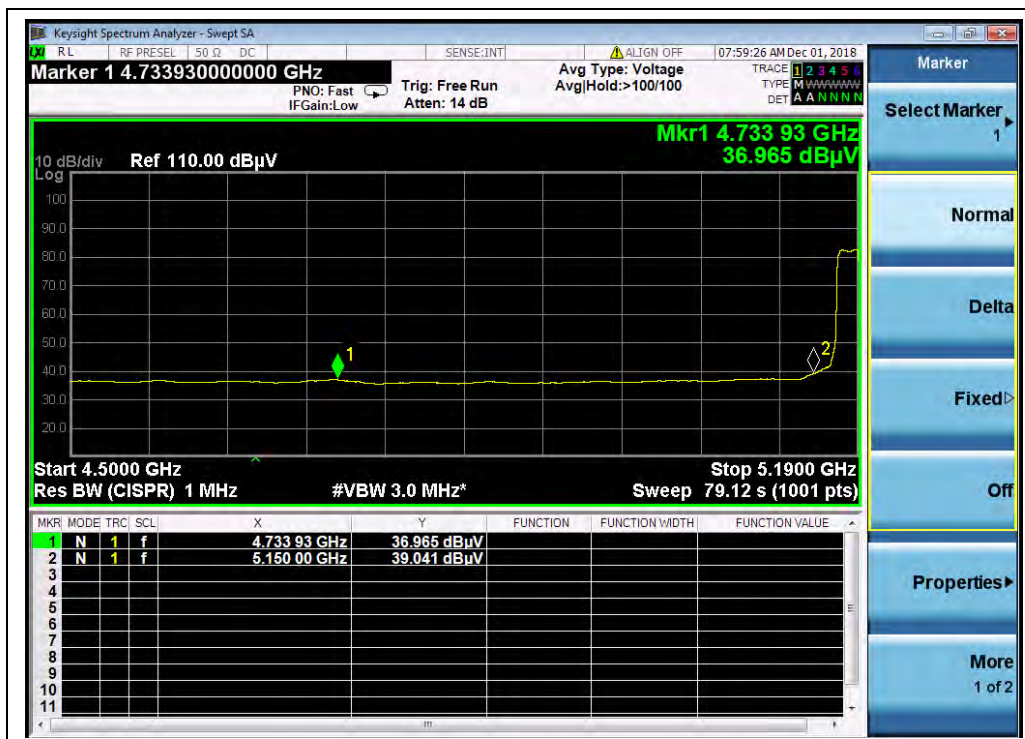
**802.11ac (VHT40) Test mode****A. Test Verdict:**

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBuV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
38	5150.00	PK	49.02	-49.53	32.2	31.69	74	PASS
38	5150.00	AV	39.04	-49.53	32.2	21.71	54	PASS
62	5374.60	PK	44.73	-49.53	32.2	27.40	74	PASS
62	5350.00	AV	35.66	-49.53	32.2	18.33	54	PASS
102	5470.00	PK	46.67	-49.53	32.2	29.34	68.23	PASS
102	5470.00	AV	37.22	-49.53	32.2	19.89	54	PASS
142	5833.27	PK	47.27	-49.53	32.2	29.94	68.23	PASS
142	5748.13	AV	37.00	-49.53	32.2	19.67	54	PASS
151	5725.00	PK	52.96	-49.53	32.2	35.63	122.23	PASS
151	5725.00	AV	38.95	-49.53	32.2	21.62	54	PASS
159	5867.06	PK	45.55	-49.53	32.2	28.22	77.06	PASS
159	5850.00	AV	35.95	-49.53	32.2	18.62	54	PASS

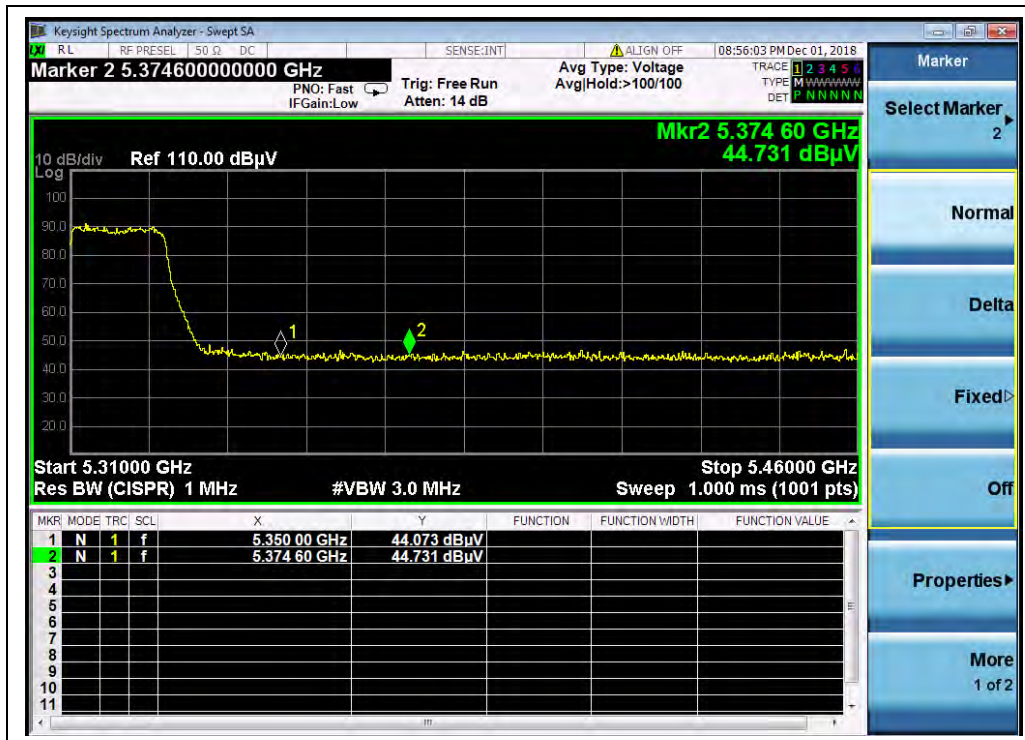
B. Test Plots:



(Channel 38, PEAK, 802.11ac (VHT40))



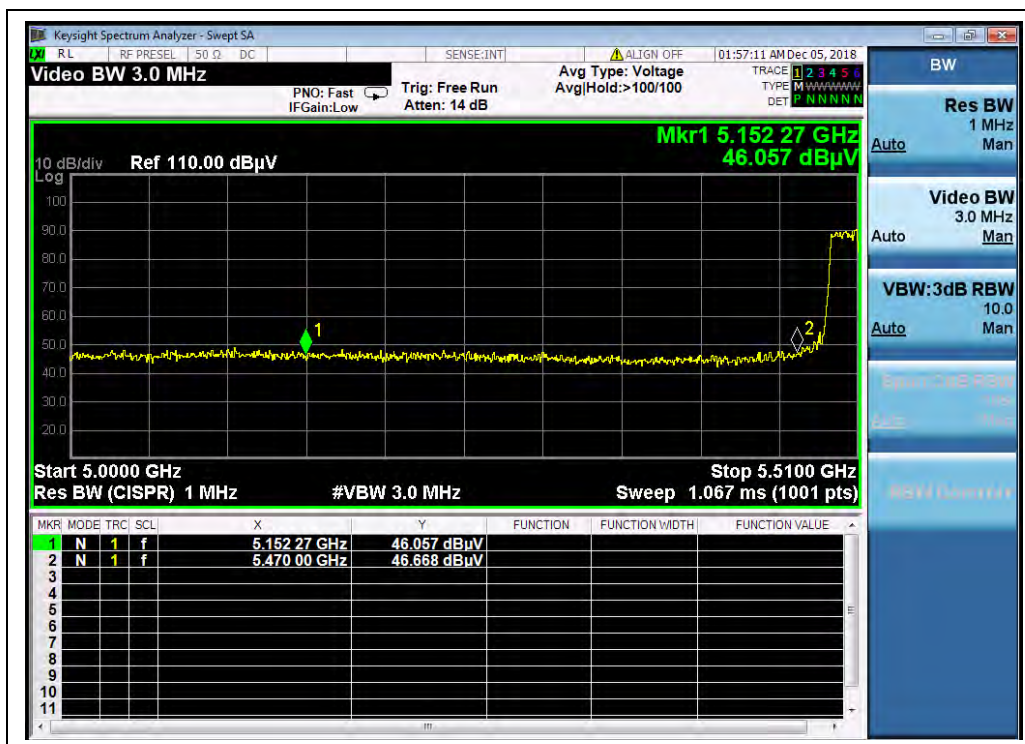
(Channel 38, AVG, 802.11ac (VHT40))



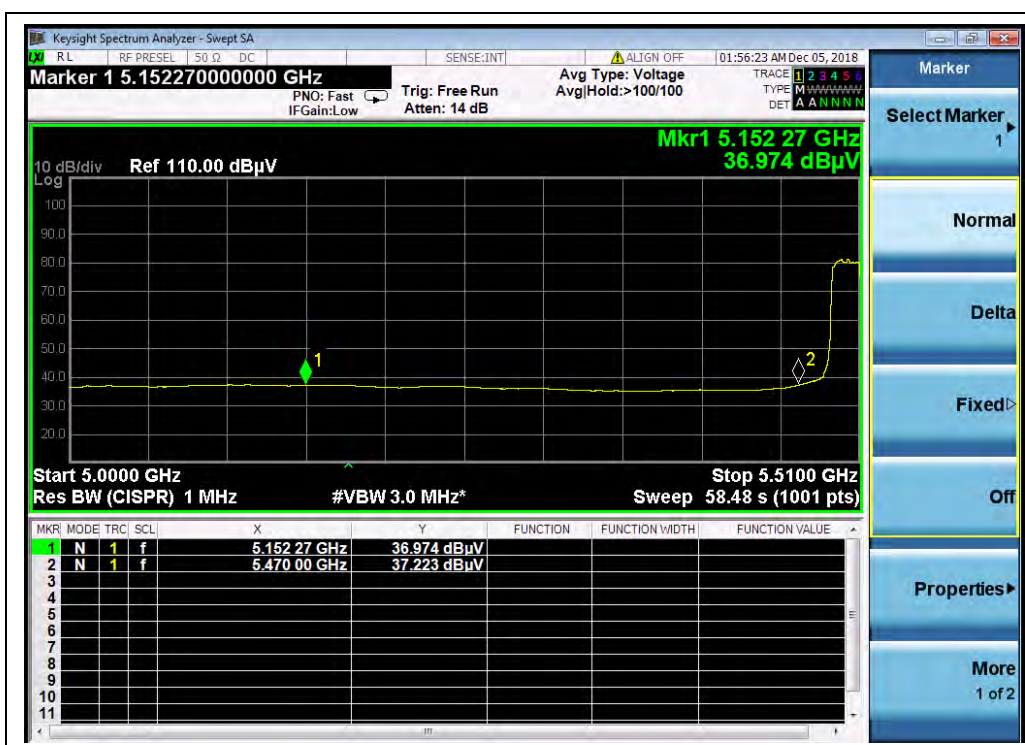
(Channel 62, PEAK, 802.11ac (VHT40))



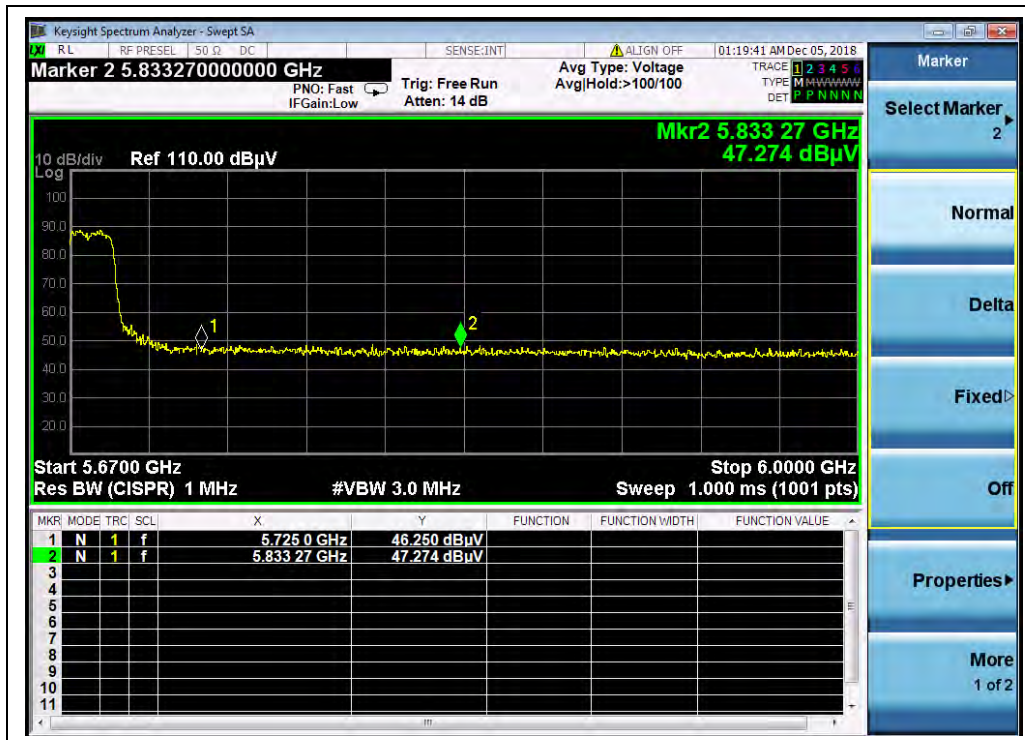
(Channel 62, AVG, 802.11ac (VHT40))



(Channel 102, PEAK, 802.11ac (VHT40))



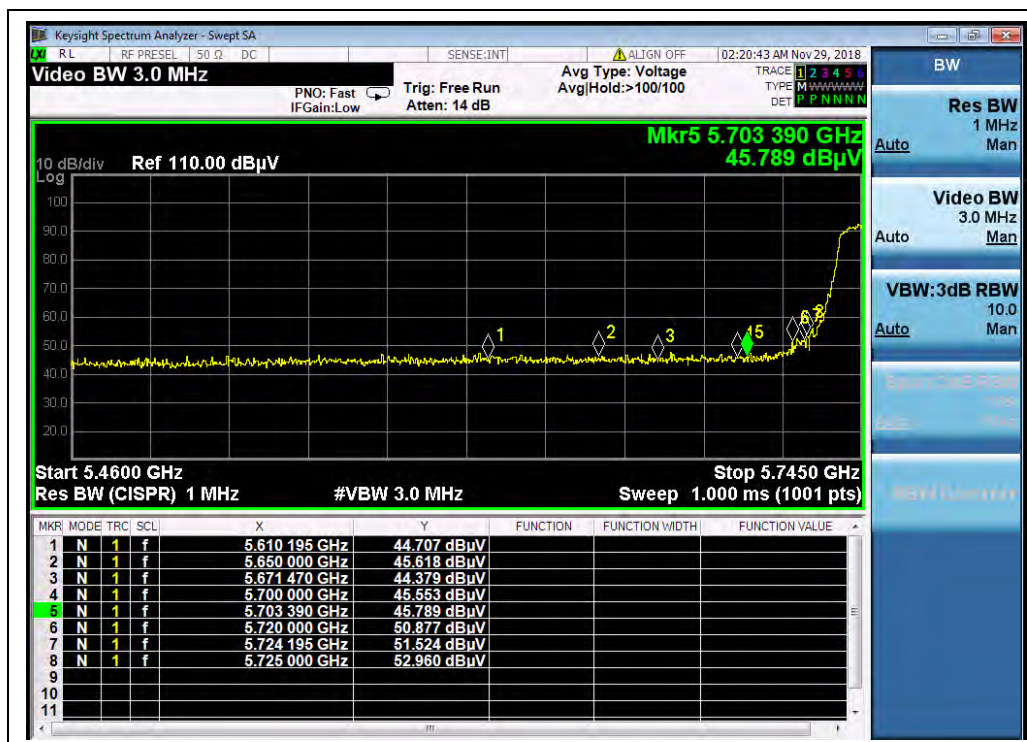
(Channel 102, AVG, 802.11ac (VHT40))



(Channel 142, PEAK, 802.11ac (VHT40))



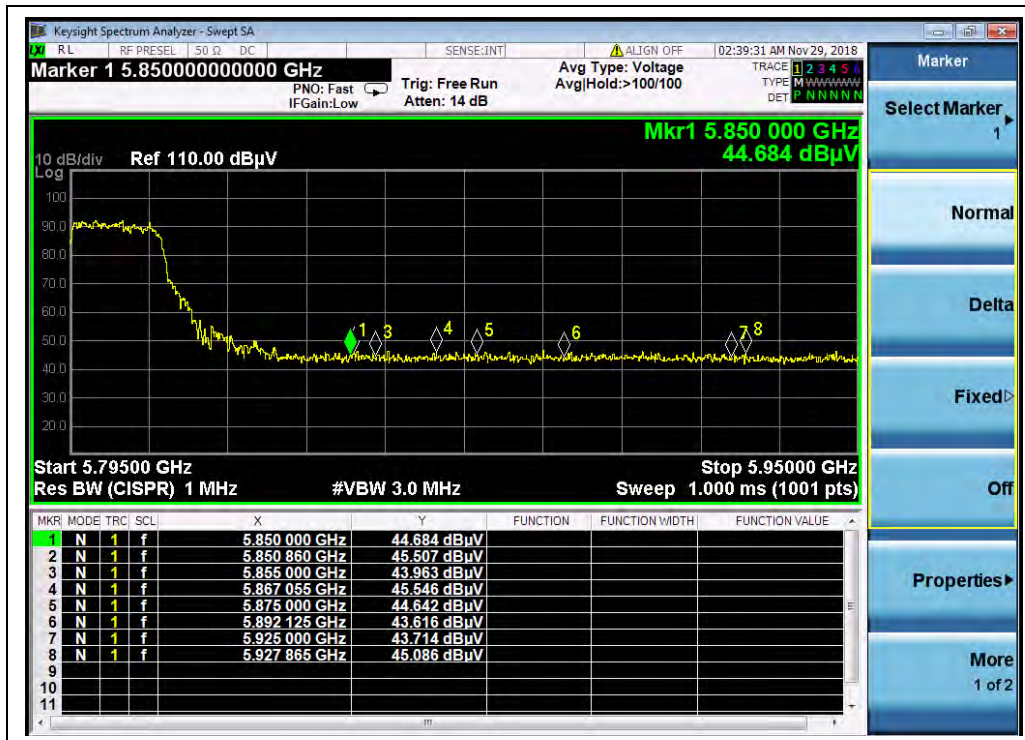
(Channel 142, AVG, 802.11ac (VHT40))



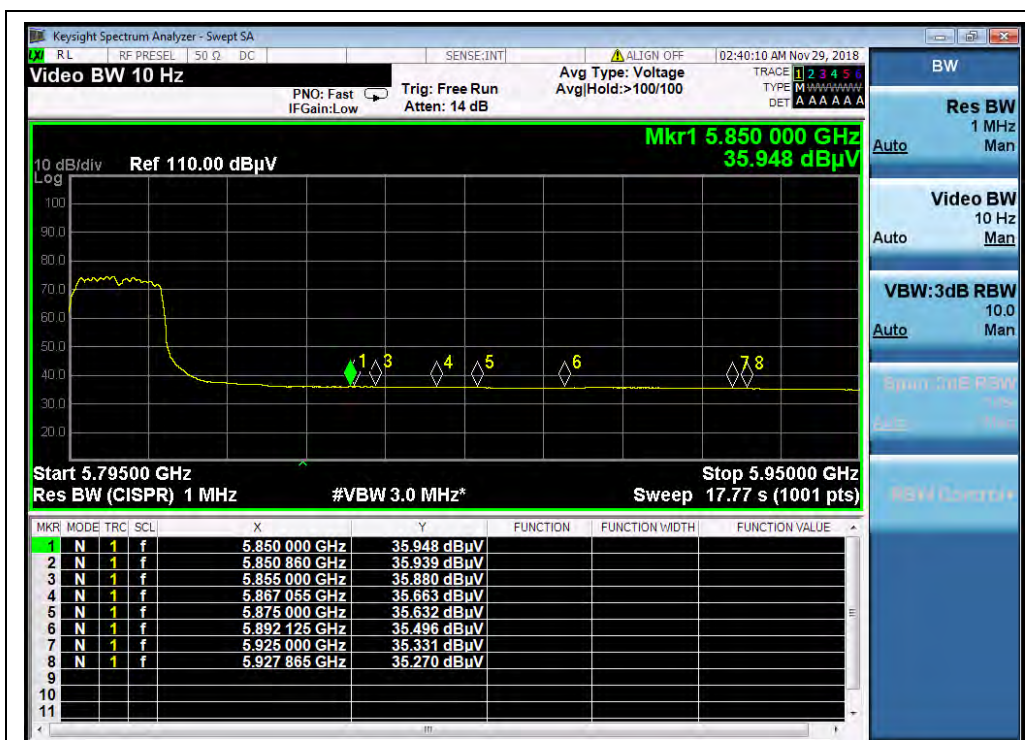
(Channel 151, PEAK, 802.11ac (VHT40))



(Channel 151, AVG, 802.11ac (VHT40))



(Channel 159, PEAK, 802.11ac (VHT40))



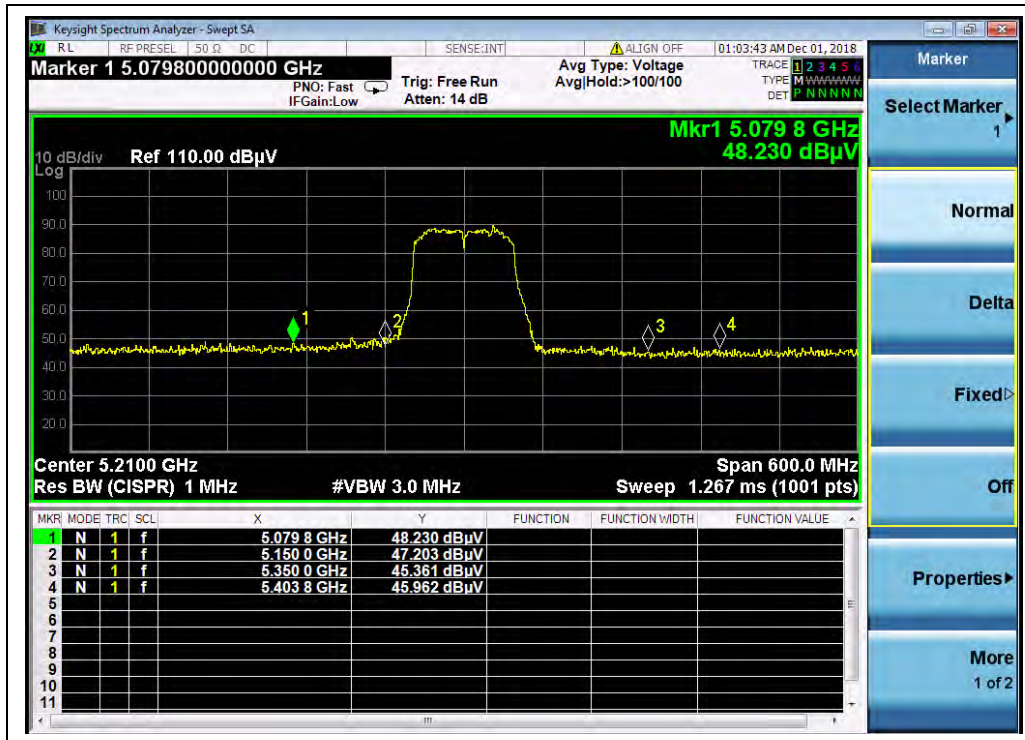
(Channel 159, AVG, 802.11ac (VHT40))

**802.11ac (VHT80) Test mode****A. Test Verdict:**

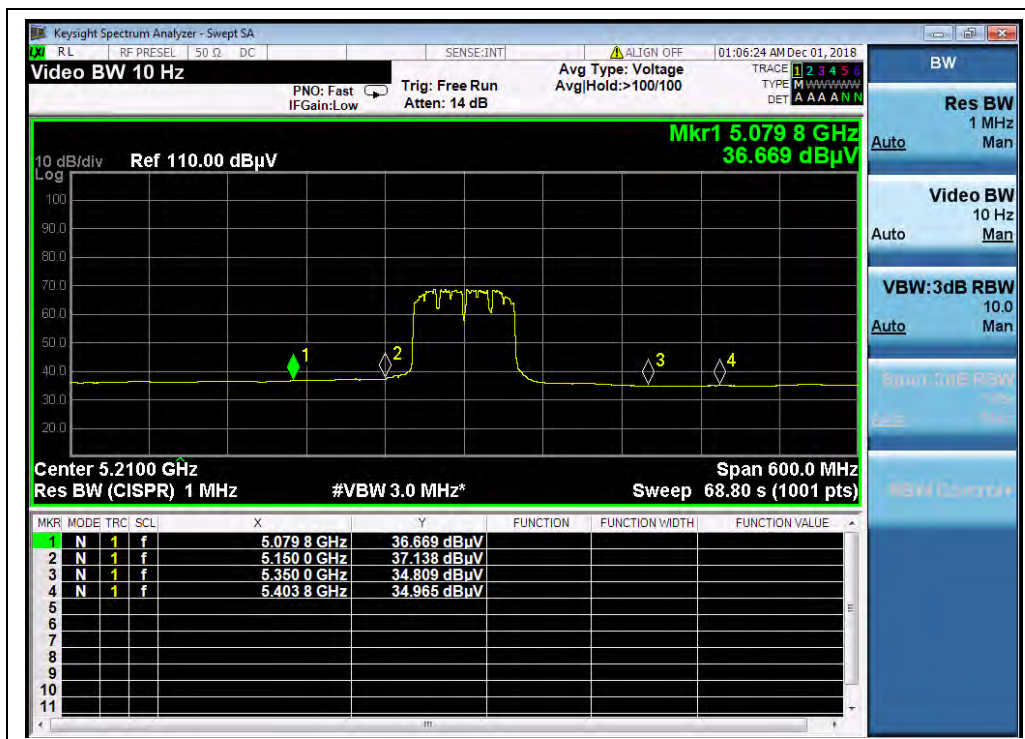
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBuV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
42	5079.80	PK	48.23	-49.53	32.2	30.90	74	PASS
42	5150.00	AV	37.14	-49.53	32.2	19.81	54	PASS
58	5350.00	PK	44.64	-49.53	32.2	27.31	74	PASS
58	5350.00	AV	34.96	-49.53	32.2	17.63	54	PASS
106	5329.00	PK	48.49	-49.53	32.2	31.16	68.23	PASS
106	5470.00	AV	36.20	-49.53	32.2	18.87	54	PASS
138	5725.00	PK	47.53	-49.53	32.2	30.20	68.23	PASS
138	5725.00	AV	36.45	-49.53	32.2	19.12	54	PASS
155	5725.00	PK	48.55	-49.53	32.2	31.22	122.23	PASS
155	5725.00	AV	37.20	-49.53	32.2	19.87	54	PASS
155	5860.00	PK	44.80	-49.53	32.2	27.47	96.83	PASS
155	5850.00	AV	36.07	-49.53	32.2	18.74	54	PASS



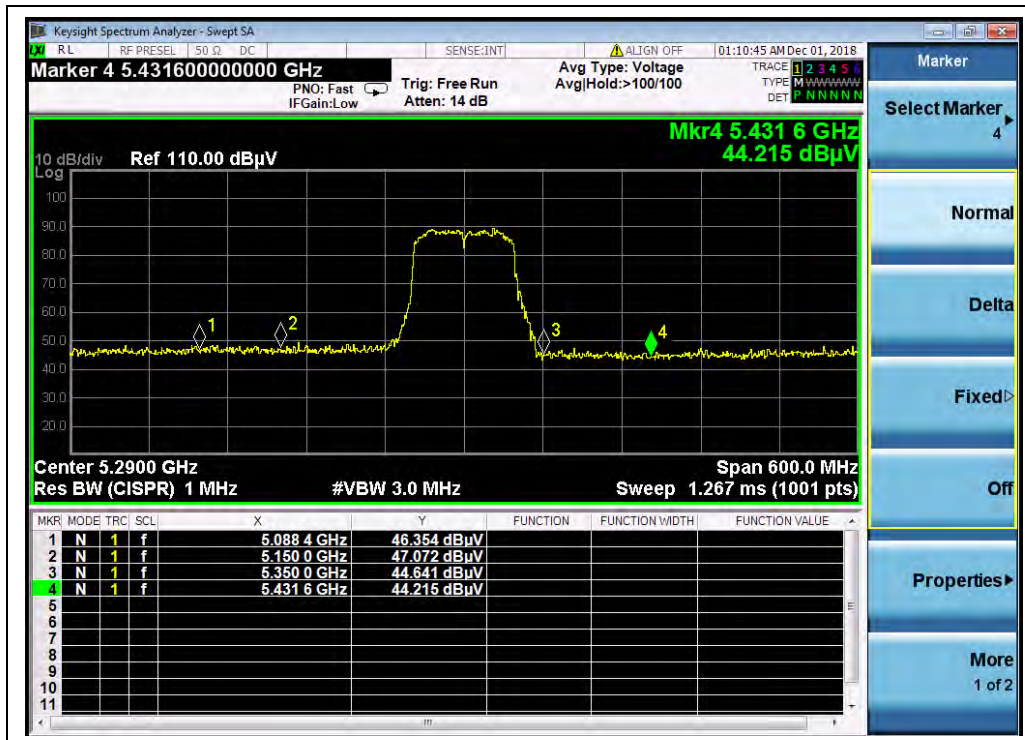
B. Test Plots:



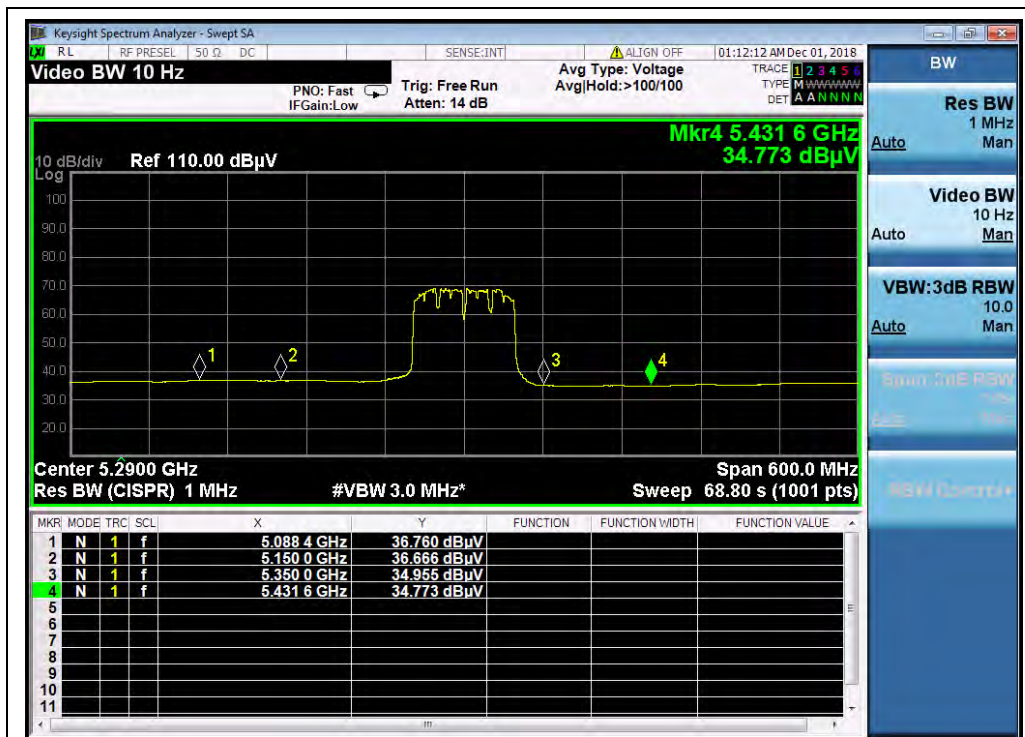
(Channel 42, PEAK, 802.11ac (VHT80))



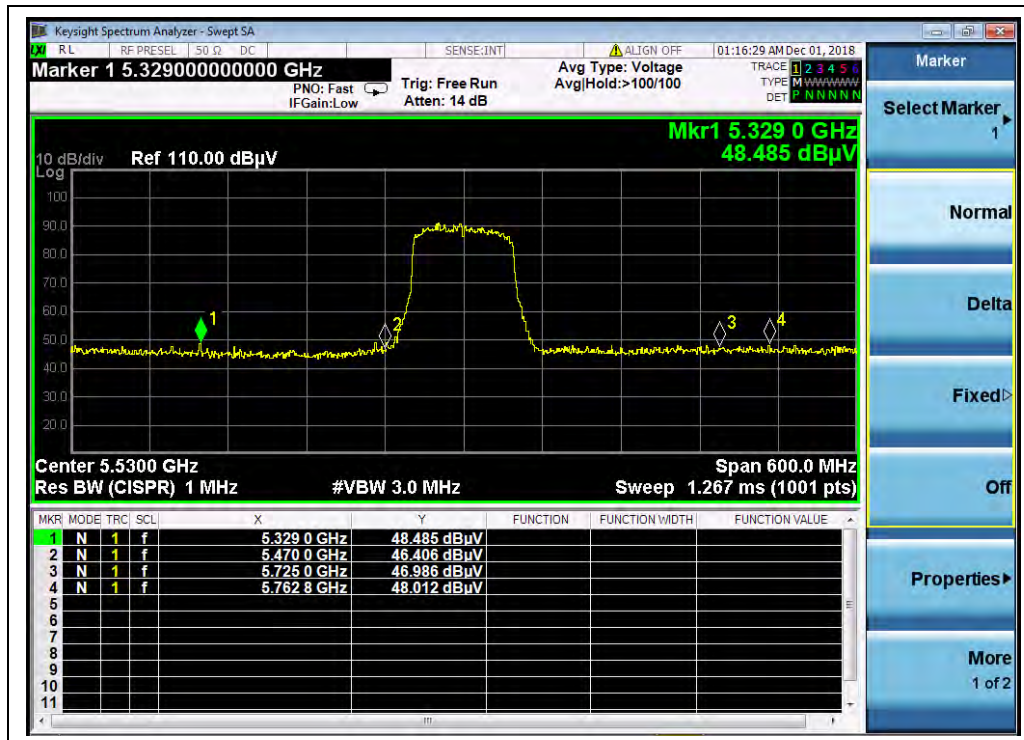
(Channel 42, AVG, 802.11ac (VHT80))



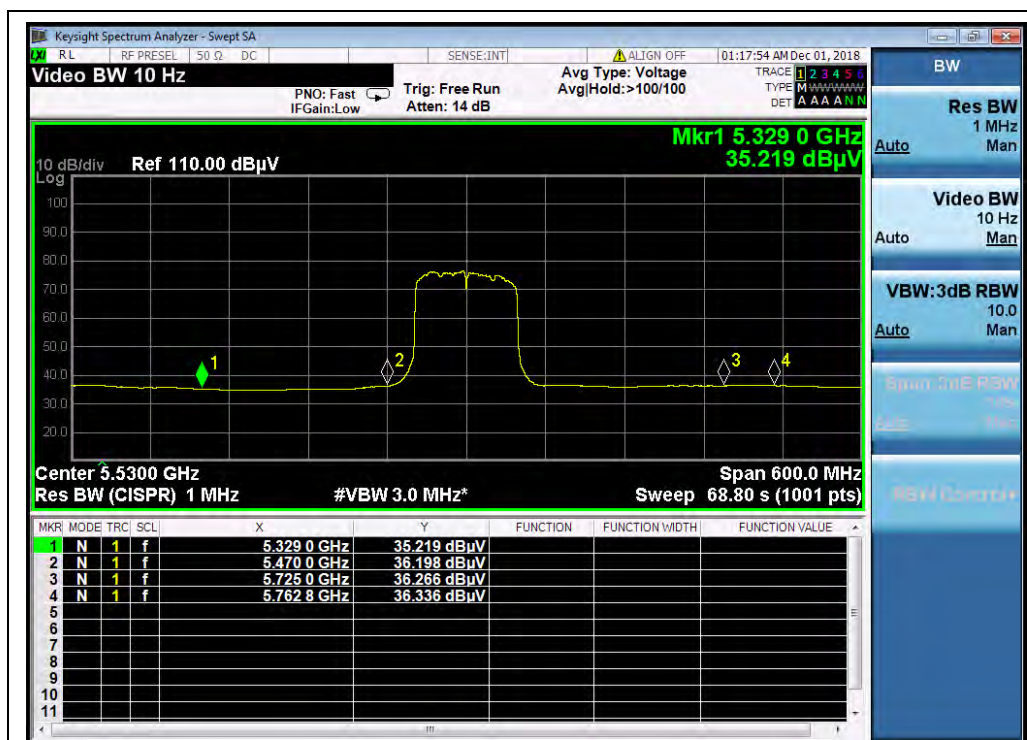
(Channel 58, PEAK, 802.11ac (VHT80))



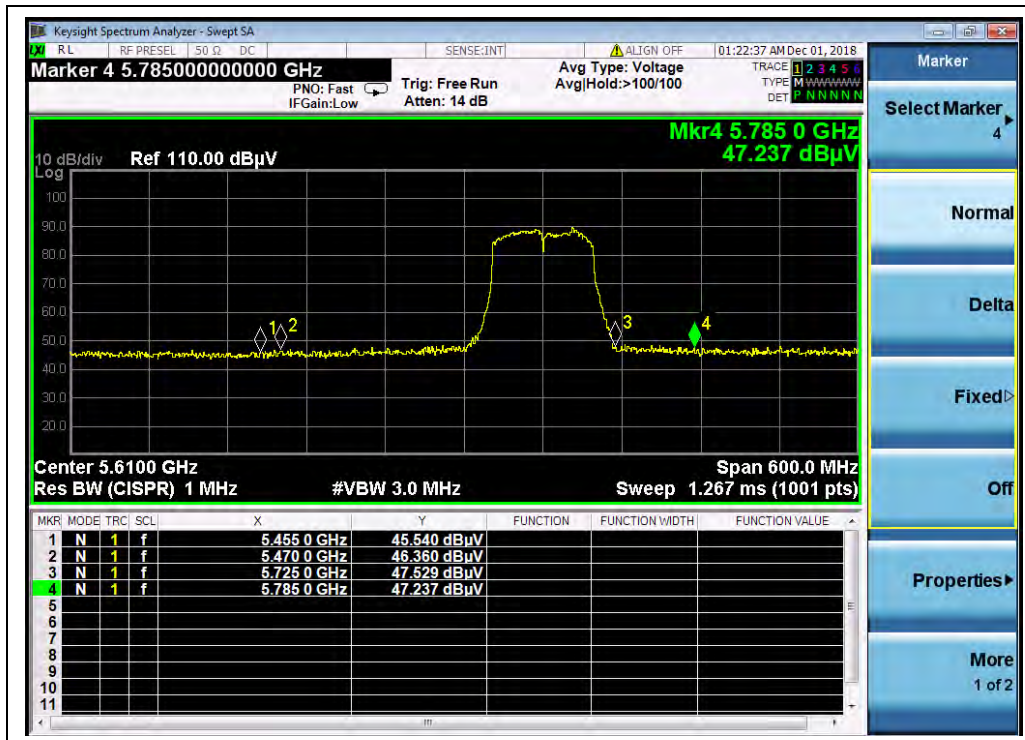
(Channel 58, AVG, 802.11ac (VHT80))



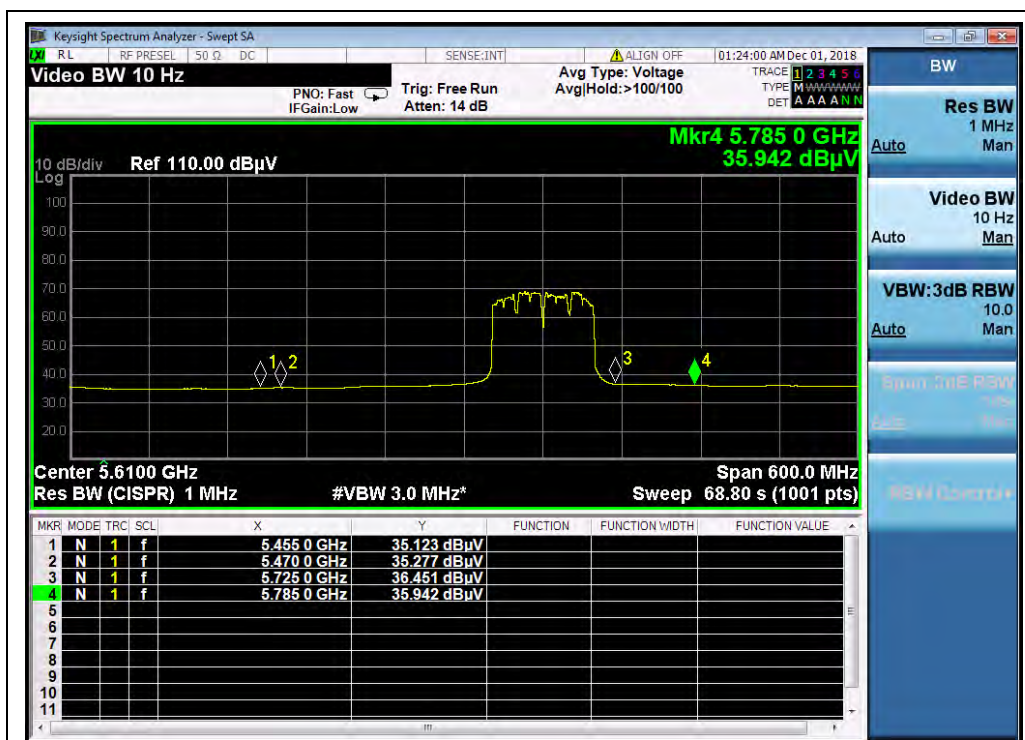
(Channel 106, PEAK, 802.11ac (VHT80))



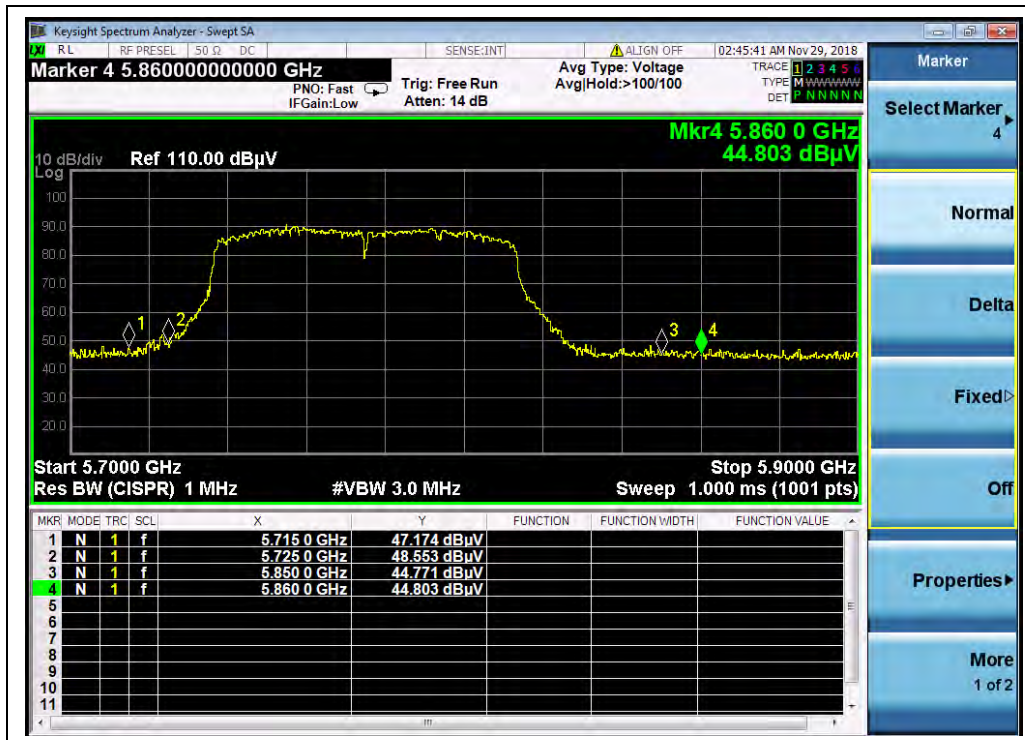
(Channel 106, AVG, 802.11ac (VHT80))



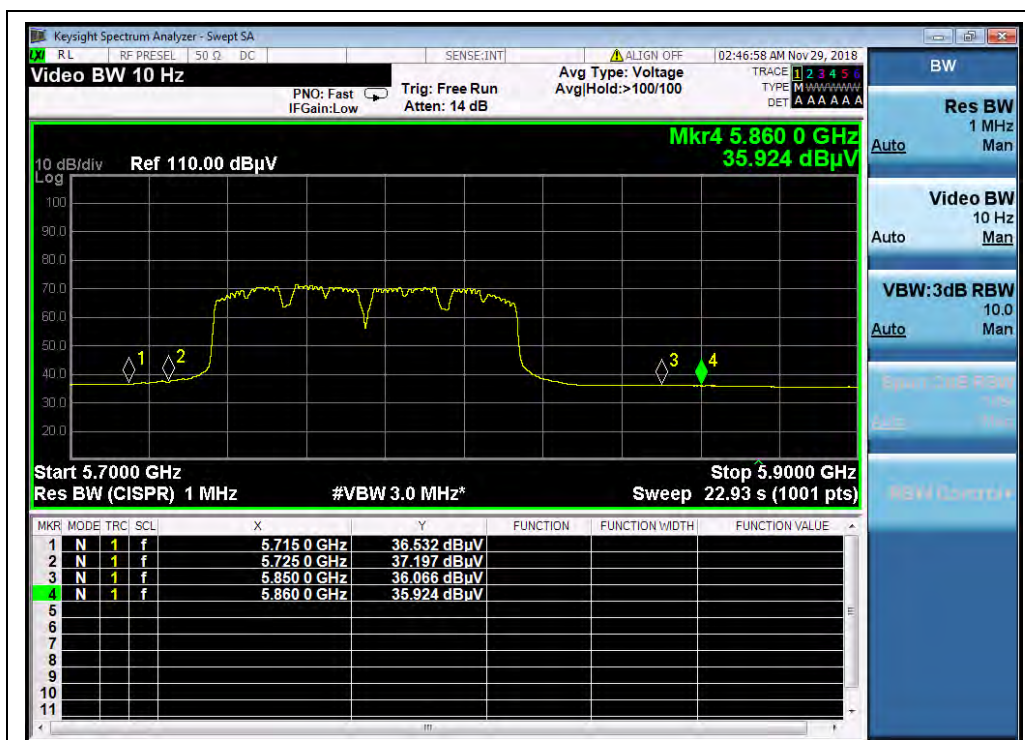
(Channel 138, PEAK, 802.11ac (VHT80))



(Channel 138, AVG, 802.11ac (VHT80))



(Channel 155, PEAK, 802.11ac (VHT80))



(Channel 155, AVG, 802.11ac (VHT80))

2.9. Radiated Emission

2.9.1. Requirement

The peak emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15–5.25 GHz band: all emissions outside of the 5.15–5.35 GHz band shall not exceed an EIRP of -27dBm/MHz.
- (2) For transmitters operating in the 5.25–5.35 GHz band: all emissions outside of the 5.15–5.35 GHz band shall not exceed an EIRP of -27dBm/MHz.
- (3) For transmitters operating in the 5.47–5.725 GHz band: all emissions outside of the 5.47–5.725 GHz band shall not exceed an EIRP of -27dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

The following formula is used to convert the equipment isotropic radiated power(eirp) to field strength (dBμV/m);

$$E = 1000000 \times \sqrt{30P} / 3 \mu\text{V/m}$$

where P is the EIRP in Watts

Therefore: -27 dBm/MHz = 68.23 dBuV/m

Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209. According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

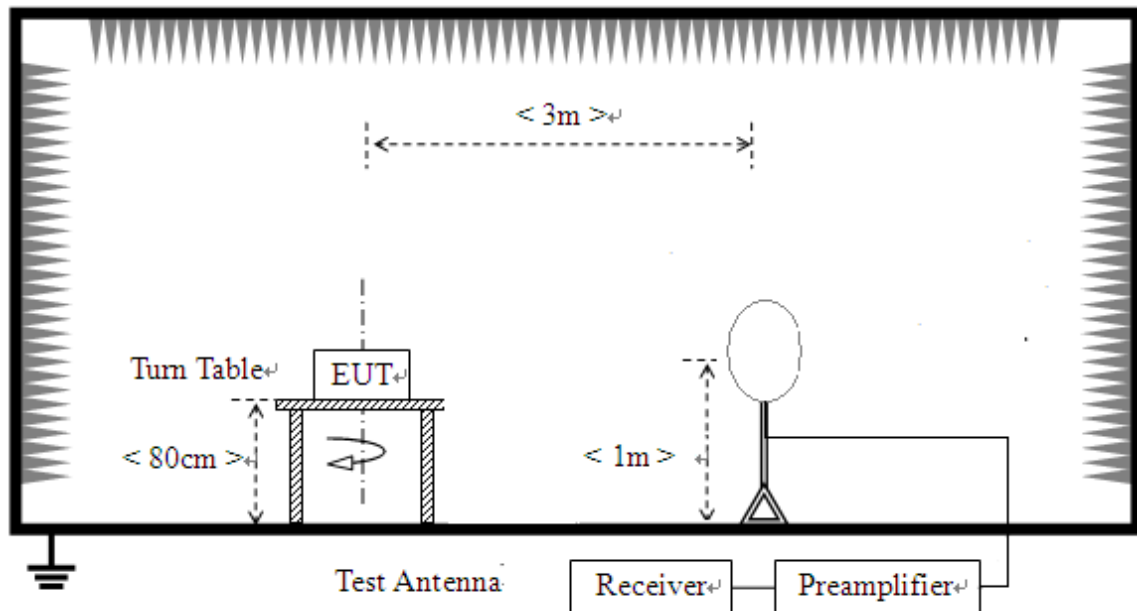
Note:

For Above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.

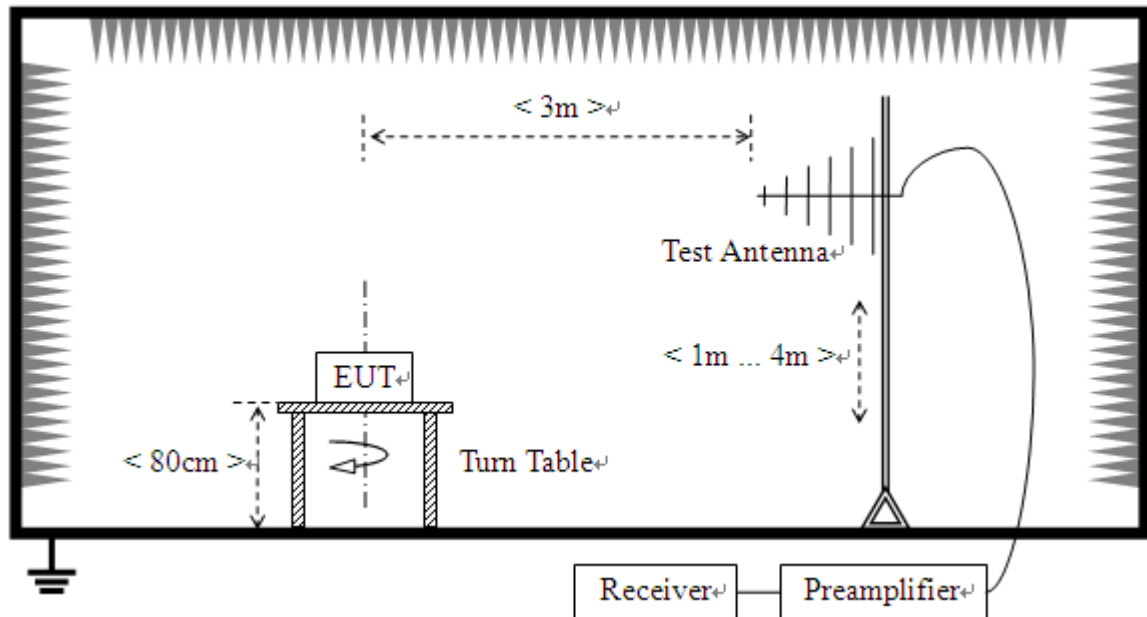
In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table)

2.9.2. Test Description
A. Test Setup:

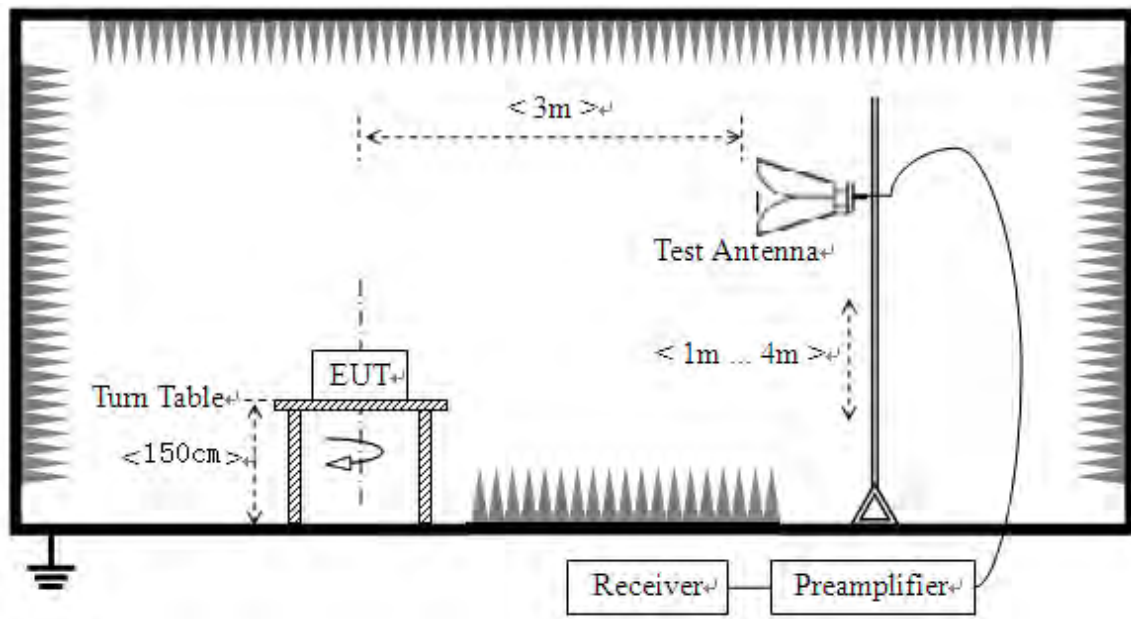
- 1) For radiated emissions from 9kHz to 30MHz



2) For radiated emissions from 30MHz to 1GHz



3) For radiated emissions above 1GHz



The RF absorbing material used on the reference ground plane and on the turntable have a maximum height (thickness) of 30 cm (12 in) and have a minimum-rated attenuation of 20 dB at all frequencies from 1 GHz to 18 GHz.

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4dB according to the standards: ANSI C63.10 (2013). For radiated emissions below or equal to 1GHz, The EUT was set-up on insulator 80cm above the Ground Plane, For radiated emissions above 1GHz, The EUT



was set-up on insulator 150cm above the Ground Plane. The set-up and test methods were according to ANSI C63.10

For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

The EUT is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading

For the Test Antenna:

(a) In the frequency range of 9kHz to 30MHz, magnetic field is measured with Loop Test Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.

(b) In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Place the test antenna at 3m away from area of the EUT, while keeping the test antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The test antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final test antenna elevation shall be that which maximizes the emissions. The test antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. The emission levels at both horizontal and vertical polarizations should be tested.



2.9.3. Test Result

According to ANSI C63.4 selection 4.2.2, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak limit, it is unnecessary to perform an quasi-peak measurement.

The measurement results are obtained as below:

$$E [\text{dB}\mu\text{V/m}] = U_R + A_T + A_{\text{Factor}} [\text{dB}]; A_T = L_{\text{Cable loss}} [\text{dB}] - G_{\text{preamp}} [\text{dB}]$$

A_T : Total correction Factor except Antenna

U_R : Receiver Reading

G_{preamp} : Preamplifier Gain

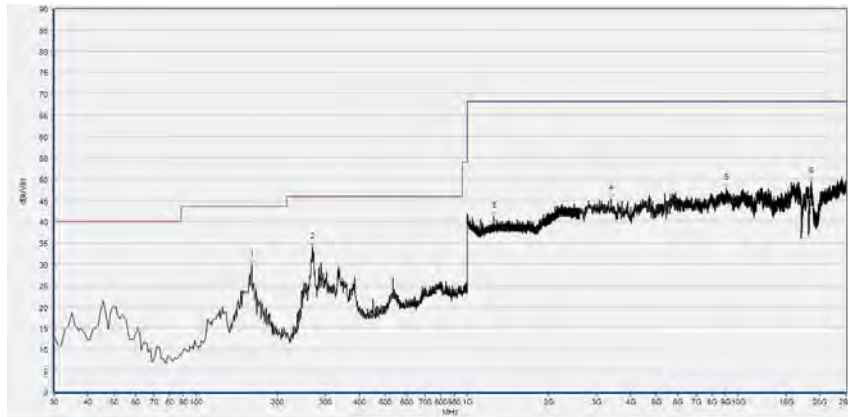
A_{Factor} : Antenna Factor at 3m

During the test, the total correction Factor A_T and A_{Factor} were built in test software.

Note1: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

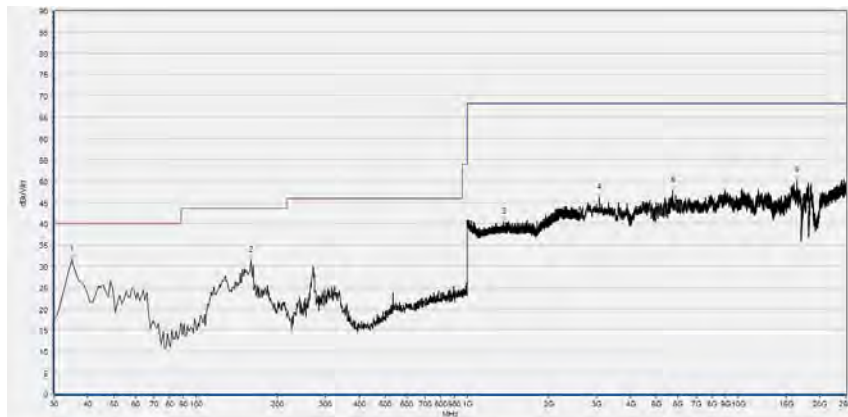
Note2: For the frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

Note3: For the frequency, which started from 25GHz to 40GHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

**802.11a Test mode****Plots for Channel = 36**

Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
161.081	29.90	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
268.859	34.05	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1253.951	41.25	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
3393.119	45.49	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
9012.162	47.94	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
18569.914	49.39	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

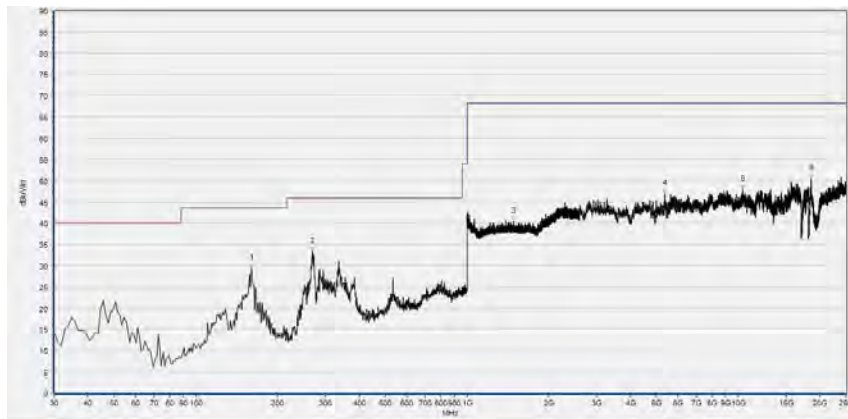
(Antenna Horizontal, 30MHz to 25GHz)



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
34.855	31.46	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
160.110	31.27	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1362.254	40.40	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
3070.494	46.03	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5723.185	47.75	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
16437.007	50.15	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

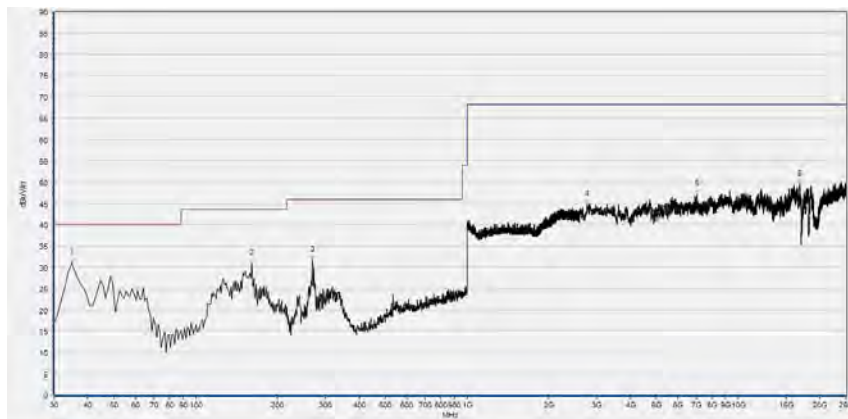
(Antenna Vertical, 30MHz to 25GHz)

Plots for Channel = 44



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
161.081	29.34	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
268.859	33.35	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1481.227	40.36	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
5364.713	46.95	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
10396.759	47.87	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
18565.433	50.44	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

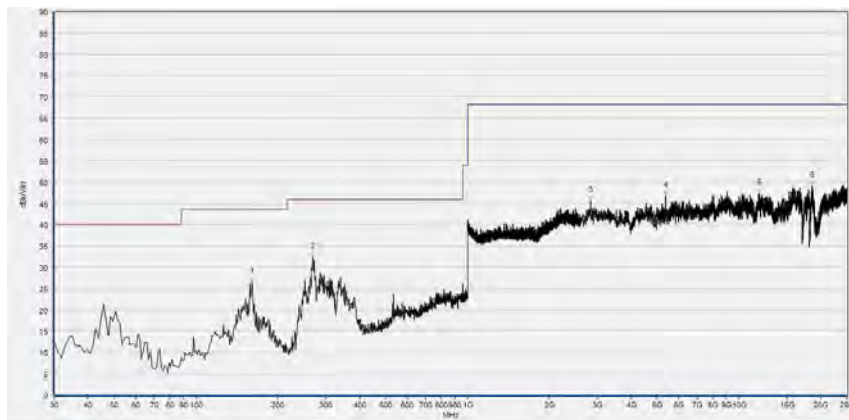
(Antenna Horizontal, 30MHz to 25GHz)



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
34.855	31.04	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
161.081	30.76	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
268.859	31.72	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2765.793	44.79	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
7058.492	47.01	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
16889.578	49.36	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

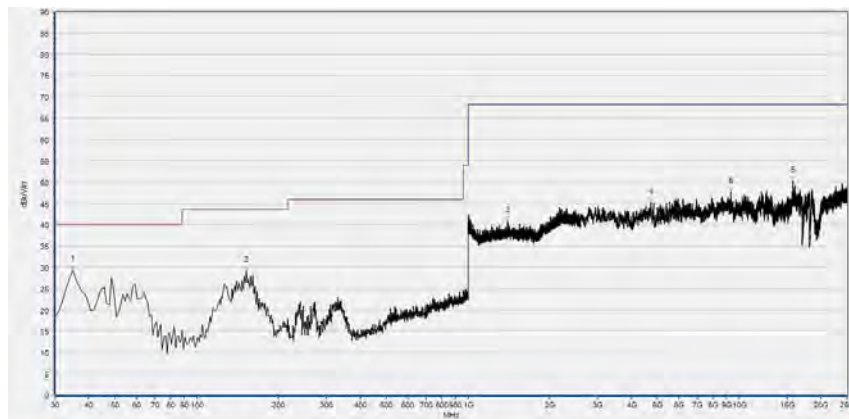
(Antenna Vertical, 30MHz to 25GHz)

Plot for Channel = 48



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
161.081	26.54	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
268.859	32.35	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2833.007	45.58	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
5369.194	46.70	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
11835.127	47.45	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
18565.433	49.07	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

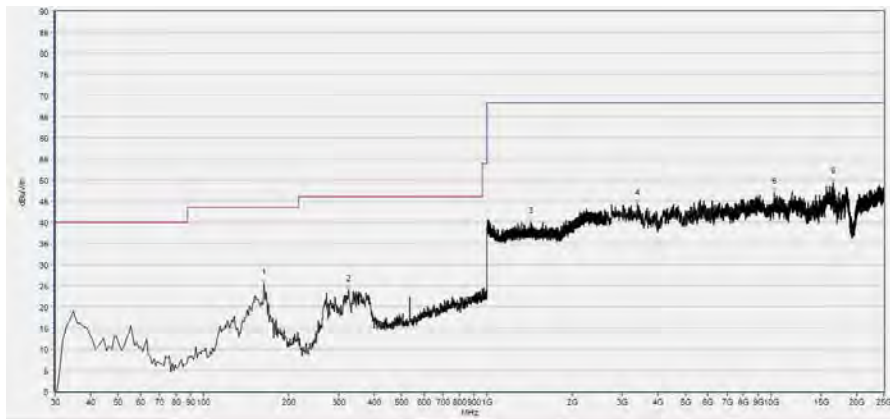
(Antenna Horizontal, 30MHz to 25GHz)



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
34.855	29.34	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
152.342	29.16	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1397.999	40.94	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
4732.907	45.25	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
9330.306	47.72	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
15751.430	50.27	N/A	N/A	74.00	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

Plots for Channel = 52



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
163.023	25.60	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
324.204	23.91	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1419.340	39.95	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
3388.638	44.27	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10280.256	47.03	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
16531.106	49.51	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

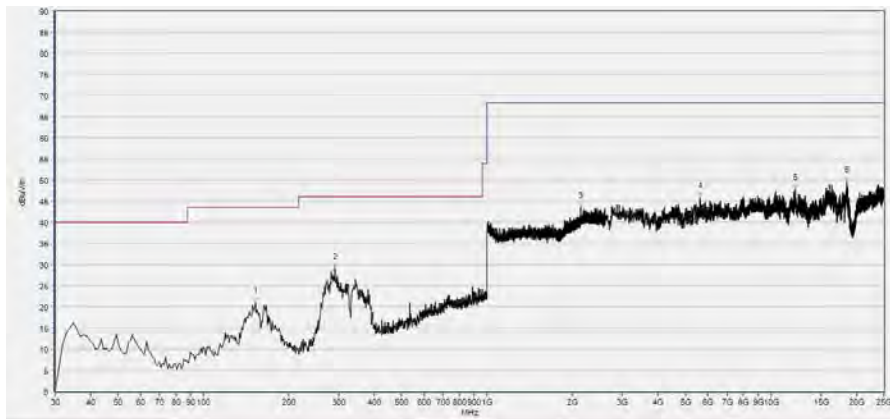
(Antenna Horizontal, 30MHz to 25GHz)



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
34.855	29.34	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
162.052	30.37	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1657.286	40.10	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5185.477	44.81	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8971.834	46.84	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
18426.525	49.15	N/A	N/A	74.00	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

Plots for Channel = 60



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
152.342	21.10	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
291.191	29.06	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2139.580	43.55	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5620.124	45.88	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12162.232	47.88	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
18507.181	49.65	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)

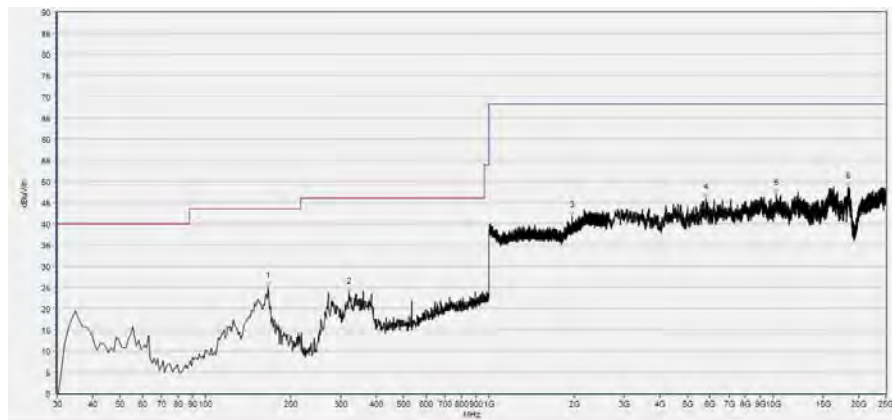


Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
34.855	29.31	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
153.313	28.47	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2412.738	44.20	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5875.535	46.08	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12162.232	47.42	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
23906.661	50.37	N/A	N/A	74.00	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

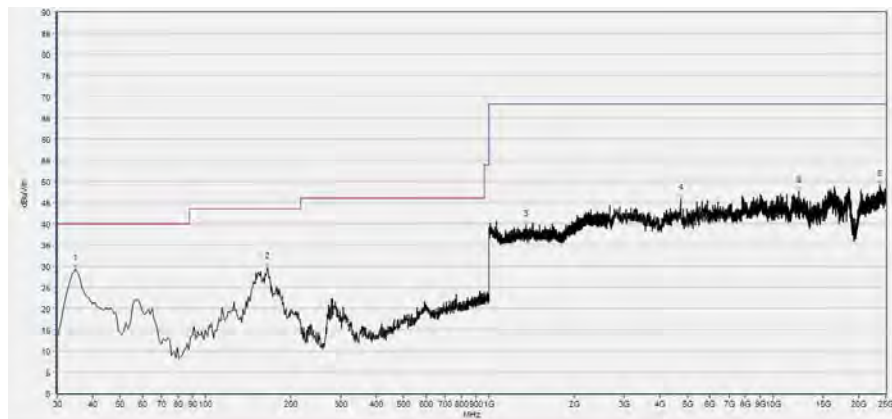


Plot for Channel = 64



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
165.936	24.96	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
320.320	23.75	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1953.918	41.78	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5785.917	46.05	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10271.294	47.04	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
18395.159	48.61	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)

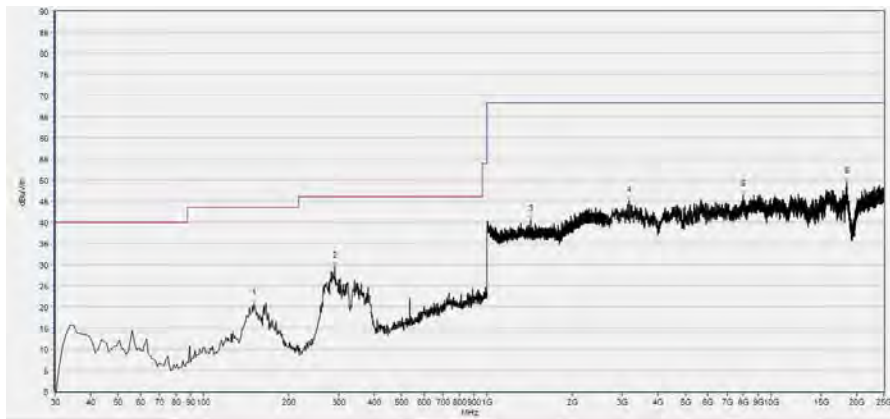


Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
34.855	29.37	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
164.965	29.64	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1346.249	39.73	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
4728.426	45.83	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
12341.468	47.69	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
23736.387	49.12	N/A	N/A	74.00	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

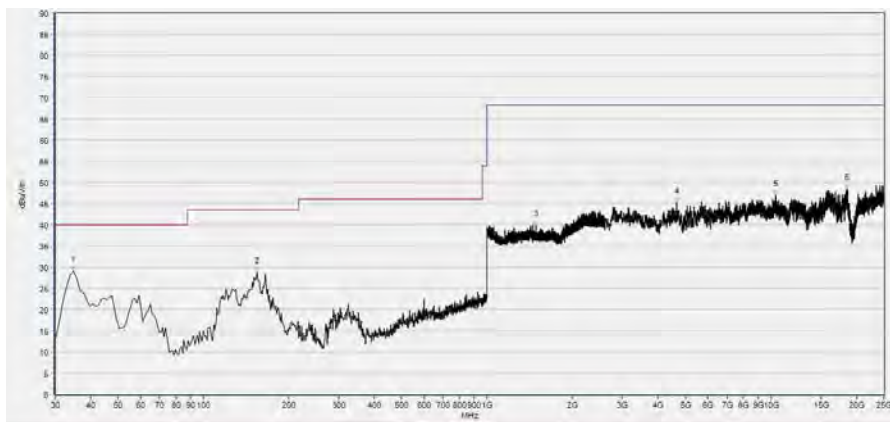


Plots for Channel = 100



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
150.400	20.79	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
290.220	29.43	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1420.940	40.47	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
3164.593	45.06	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
7963.633	46.41	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
18502.701	49.52	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

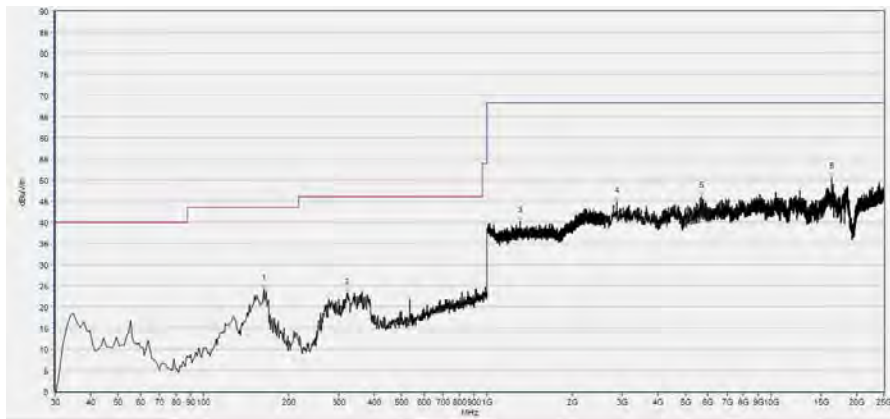
(Antenna Horizontal, 30MHz to 25GHz)



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
34.855	29.20	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
154.284	28.77	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1484.962	39.88	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
4661.212	45.19	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
10396.759	46.88	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
18520.624	48.45	N/A	N/A	74.00	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

Plots for Channel = 120



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
163.023	24.08	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
320.320	23.15	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1308.369	40.21	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
2859.892	44.84	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
5714.223	46.11	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
16387.718	50.61	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

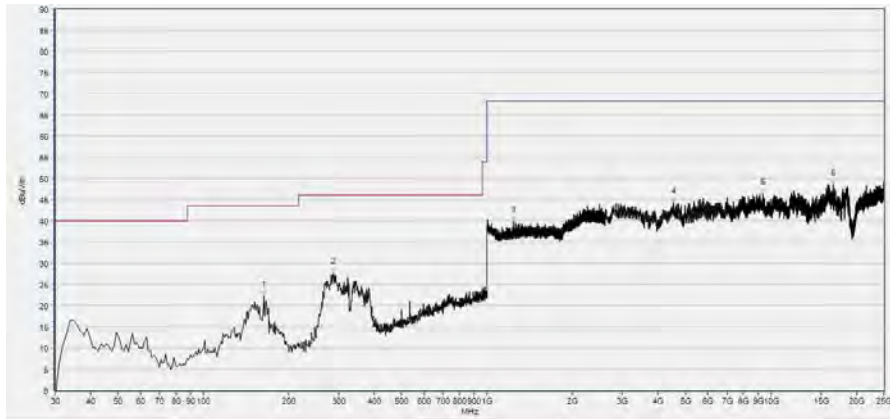
(Antenna Horizontal, 30MHz to 25GHz)



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
34.855	29.42	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
165.936	29.99	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1435.345	40.57	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
4549.190	44.61	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
8586.477	46.64	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
15657.331	49.22	N/A	N/A	74.00	N/A	N/A	Vertical	PASS

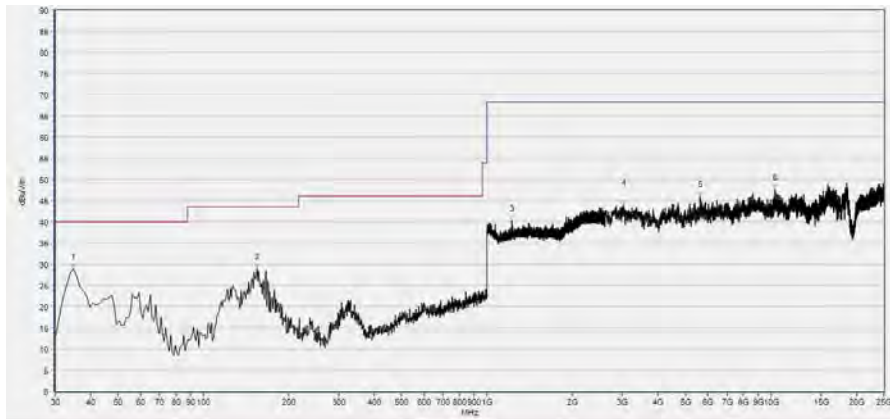
(Antenna Vertical, 30MHz to 25GHz)

Plot for Channel = 144



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
163.023	22.32	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
287.307	27.72	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1237.412	39.78	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
4526.785	44.27	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
9352.711	46.44	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
16544.549	48.63	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

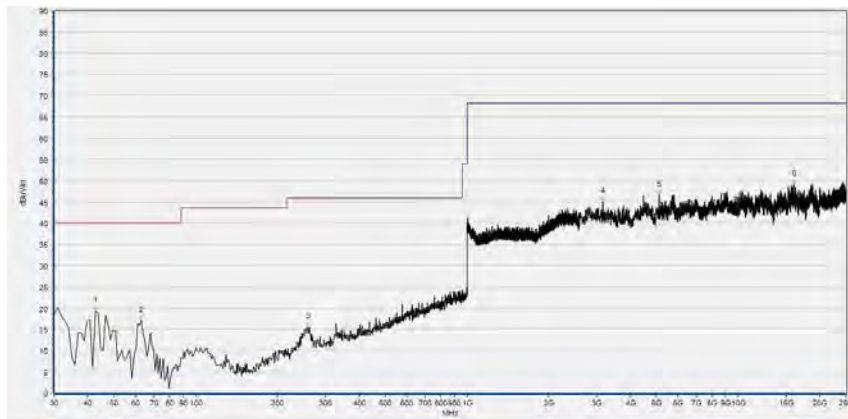
(Antenna Horizontal, 30MHz to 25GHz)



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
34.855	28.95	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
154.284	28.87	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1221.407	40.32	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
3021.204	43.87	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5633.567	46.00	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
10342.989	47.76	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

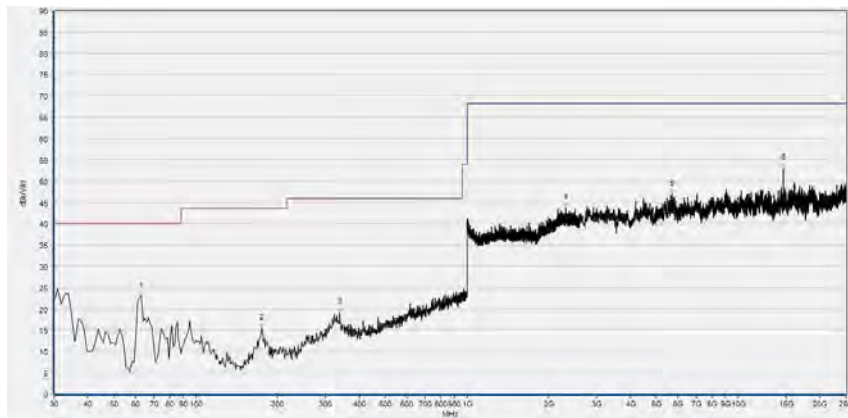
(Antenna Vertical, 30MHz to 25GHz)

Plots for Channel = 149



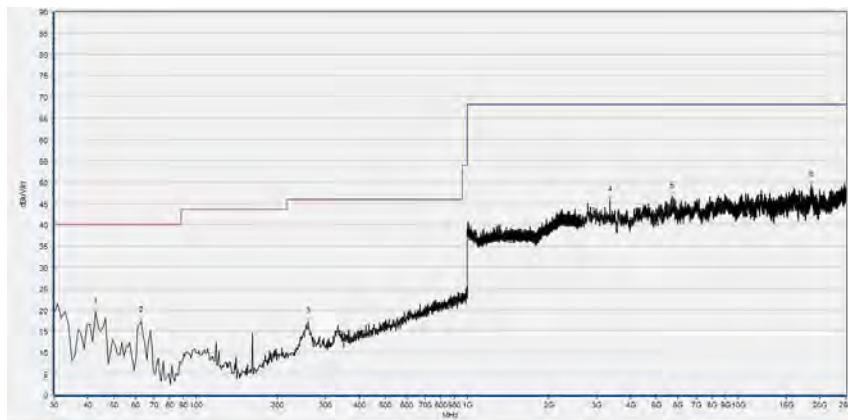
Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
42.623	19.28	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
63.013	17.01	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
259.149	15.56	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
3169.074	45.06	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5113.783	46.53	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
16100.940	49.04	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)



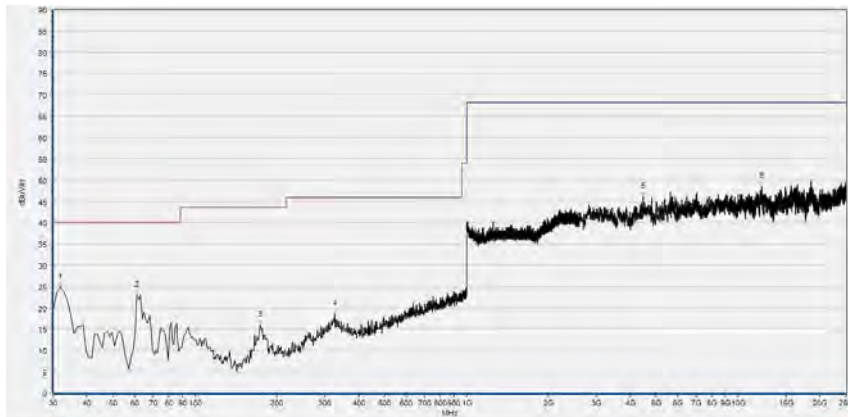
Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
63.013	23.01	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
174.675	15.46	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
338.769	19.10	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2309.770	43.75	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5696.299	46.86	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
14653.611	52.97	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

Plot for Channel = 157

Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
42.623	19.43	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
63.013	17.38	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
259.149	17.20	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
3366.233	45.75	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5714.223	46.56	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
18610.242	49.20	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
31.942	24.75	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
61.071	23.01	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
173.704	15.96	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
327.117	18.67	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
4477.495	46.09	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12256.331	48.45	N/A	N/A	74.00	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

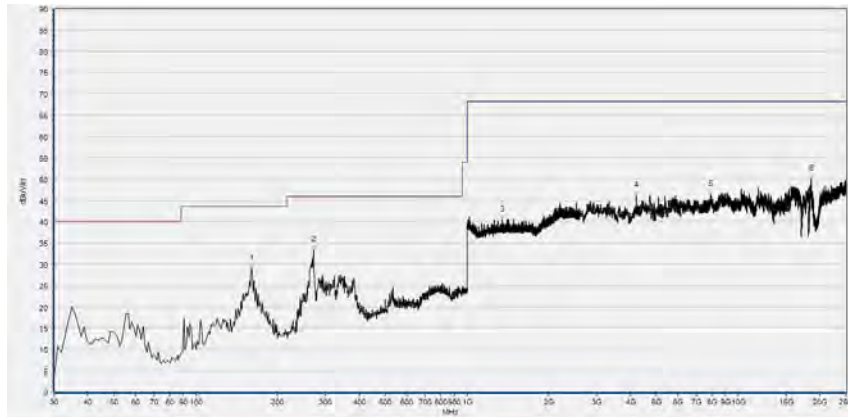


The figure is a line graph showing the power spectrum of a signal. The horizontal axis (x-axis) is labeled 'f (Hz)' and ranges from 30 to 240 with major ticks every 20 units. The vertical axis (y-axis) is labeled 'dB/Hz' and ranges from 0 to 90 with major ticks every 10 units. The plot contains two main data series: a red stepped line and a black noisy line. The red line starts at approximately 40 dB/Hz, has a small step up at 80 Hz, another at 250 Hz, and a large step up to about 68 dB/Hz at 100 Hz. The black line represents the actual signal, showing significant noise. It has several peaks labeled with numbers: '1' at ~35 Hz (~20 dB/Hz), '2' at ~65 Hz (~18 dB/Hz), '3' at ~280 Hz (~20 dB/Hz), '4' at ~105 Hz (~40 dB/Hz), '5' at ~140 Hz (~45 dB/Hz), and '6' at ~180 Hz (~50 dB/Hz). There are also labels '7', '8', and '9' further along the x-axis at higher frequencies, corresponding to the noisy signal's fluctuations.

Fre. (MHz)	Pk (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
30.971	20.71	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
63.013	17.14	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
254.294	17.41	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2239.880	43.53	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
4481.976	46.31	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
15693.179	48.97	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
32.913	23.77	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
62.042	24.37	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
172.733	15.72	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2297.499	44.23	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
7009.202	47.02	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
17144.989	48.78	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

**802.11n (HT20) Test mode****Plots for Channel = 36**

Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
161.081	29.06	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
271.772	33.29	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1347.316	40.34	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
4208.642	46.08	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
7923.305	46.48	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
18569.914	49.92	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)

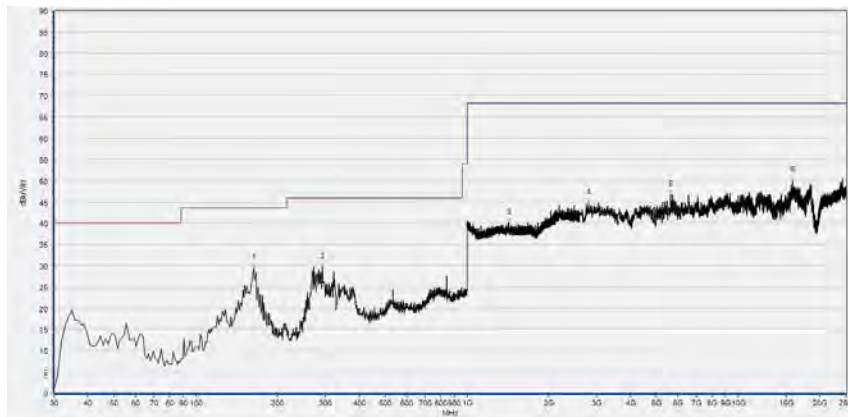


Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
161.081	30.92	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
650.450	31.92	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1416.672	40.76	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
3043.609	44.82	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
9124.185	47.70	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
15666.293	49.41	N/A	N/A	74.00	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)



Plots for Channel = 44



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
163.994	29.48	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
293.133	29.72	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1420.407	40.13	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
2797.159	44.68	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
5633.567	46.76	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
15827.606	49.98	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)

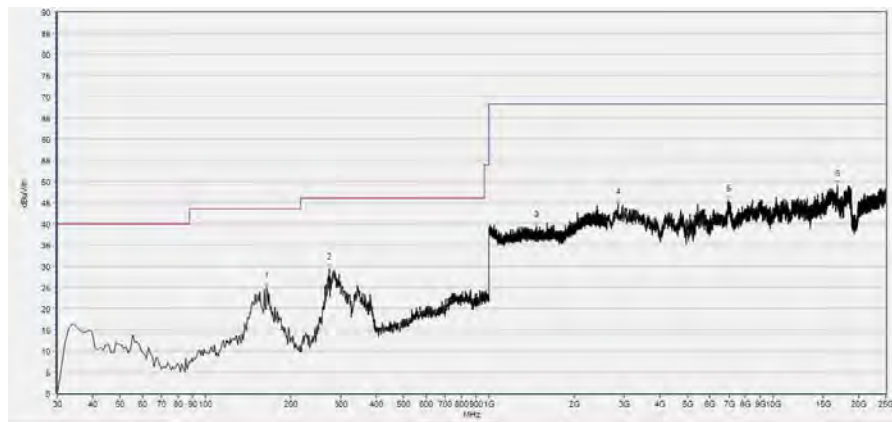


Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
34.855	30.08	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
163.994	31.13	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1489.763	40.43	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
4719.464	45.55	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
9142.108	47.51	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
18507.181	49.57	N/A	N/A	74.00	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

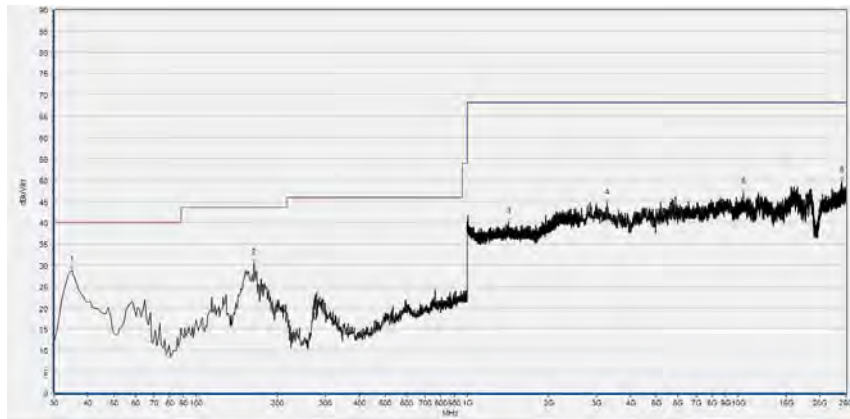


Plot for Channel = 48



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
163.994	25.06	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
272.743	29.39	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1465.755	39.50	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
2841.968	44.77	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
6995.759	45.52	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
16889.578	49.11	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

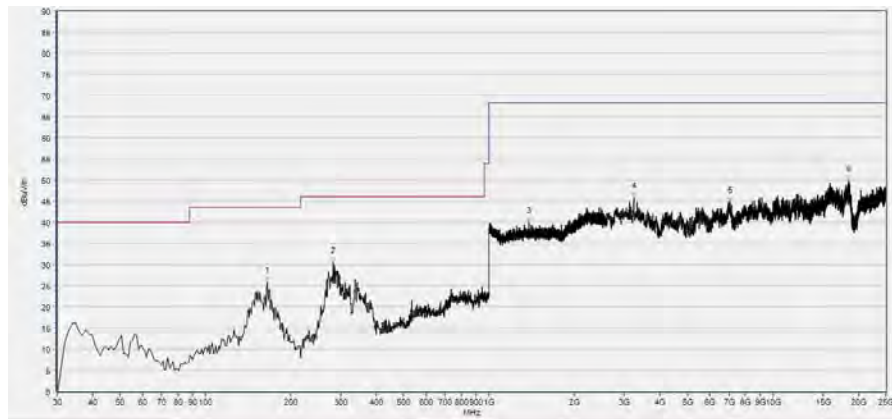
(Antenna Horizontal, 30MHz to 25GHz)



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
34.855	28.81	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
163.994	30.50	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1419.340	40.19	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
3290.058	44.54	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
10428.126	47.10	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
24072.454	49.76	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

Plots for Channel = 52



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
164.965	25.92	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
282.452	30.58	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1377.192	39.98	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
3236.287	45.86	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
7045.049	44.77	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
18484.777	49.87	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

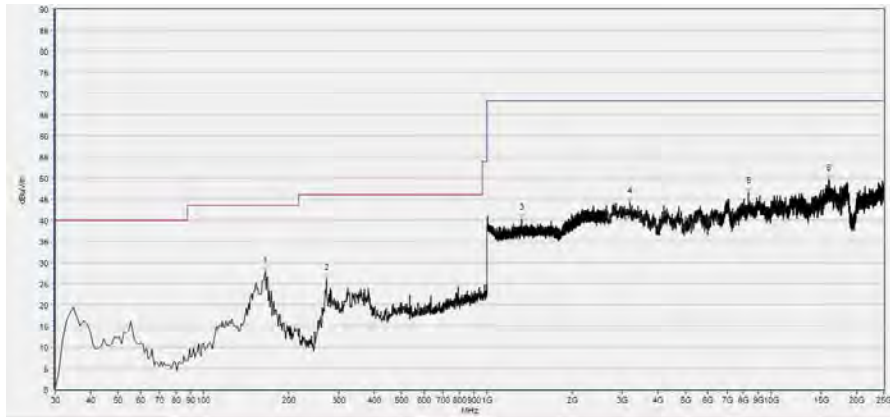
(Antenna Horizontal, 30MHz to 25GHz)



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
34.855	29.60	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
152.342	31.34	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1416.672	40.17	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
2499.166	43.81	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
5794.879	46.36	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
18507.181	49.22	N/A	N/A	74.00	N/A	N/A	Vertical	PASS

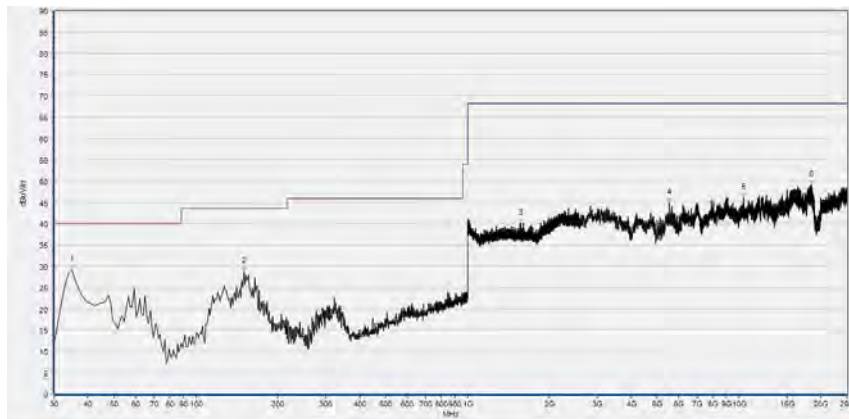
(Antenna Vertical, 30MHz to 25GHz)

Plots for Channel = 60



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
164.965	27.85	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
270.801	25.99	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1324.908	40.28	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
3186.997	44.20	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8313.143	46.56	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
15935.147	49.56	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)

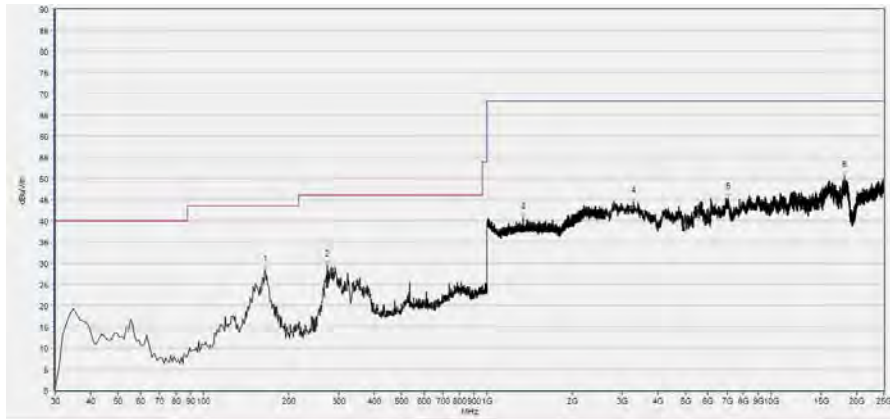


Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
34.855	29.11	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
150.400	28.84	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1565.522	40.00	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
5534.987	44.85	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
10392.278	46.10	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
18480.296	49.07	N/A	N/A	74.00	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

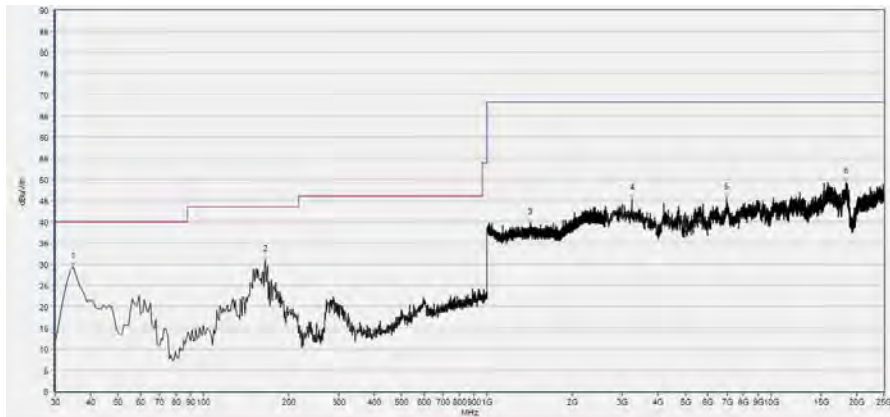


Plot for Channel = 64



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
164.965	28.33	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
272.743	29.54	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1341.447	40.66	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
3272.134	44.39	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
7062.973	45.31	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
18144.229	50.50	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

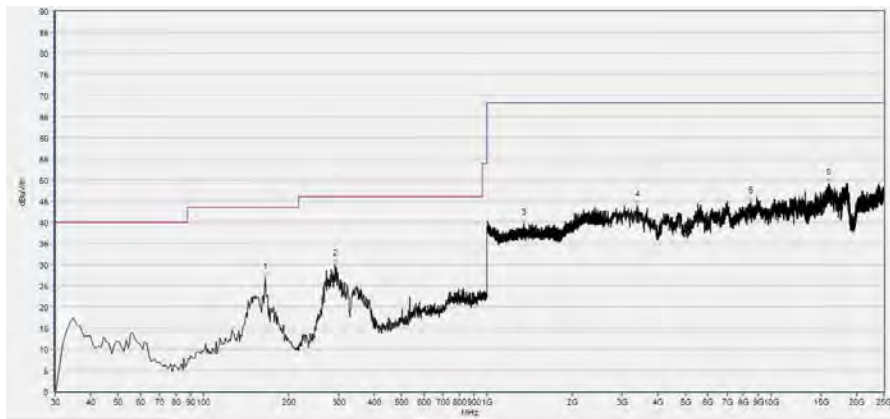
(Antenna Horizontal, 30MHz to 25GHz)



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
34.855	29.31	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
164.965	30.86	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1418.806	39.71	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
3231.806	45.31	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
6977.836	45.56	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
18431.006	49.26	N/A	N/A	74.00	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

Plots for Channel = 100



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
164.965	26.75	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
291.191	30.05	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1348.916	39.71	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
3375.195	44.00	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8514.783	44.89	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
15988.918	49.15	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)

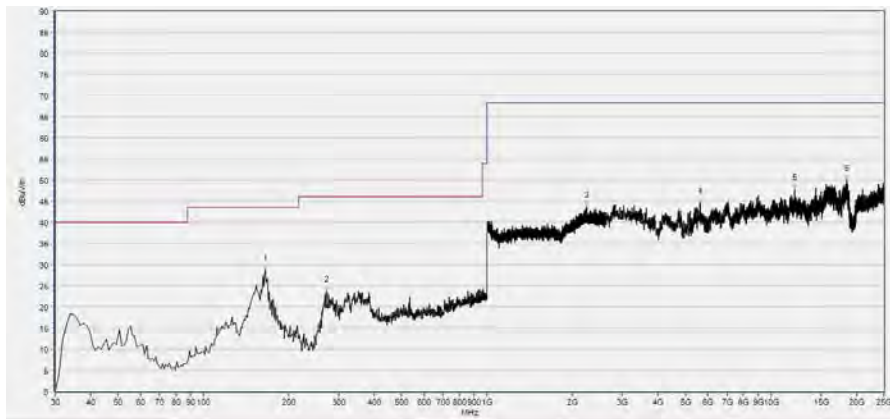


Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
34.855	29.31	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
164.965	29.73	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1235.278	39.41	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
4231.046	43.46	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
7004.721	45.65	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
15841.048	49.21	N/A	N/A	74.00	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

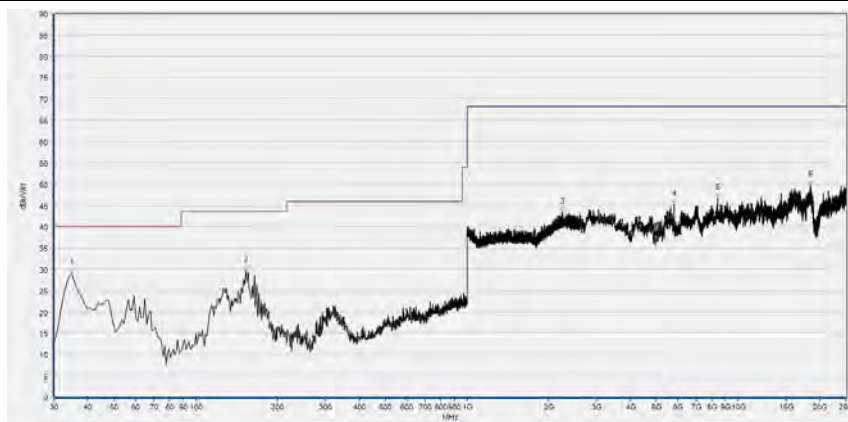


Plots for Channel = 120



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
164.965	28.80	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
270.801	23.76	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2235.612	43.83	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
5633.567	44.72	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12117.423	47.84	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
18560.952	49.94	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

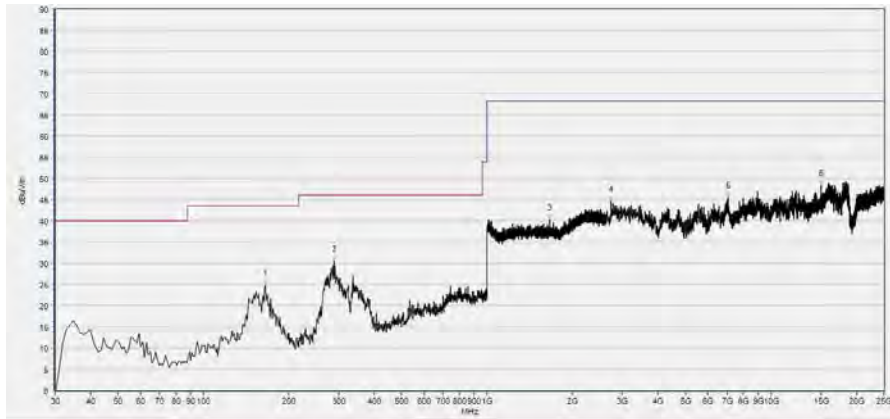
(Antenna Horizontal, 30MHz to 25GHz)



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
34.855	29.06	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
153.313	29.59	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2243.615	43.36	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
5799.360	45.23	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8375.875	46.69	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
18426.525	49.83	N/A	N/A	74.00	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

Plot for Channel = 144



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
164.965	24.85	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
288.278	30.59	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1657.286	40.39	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
2734.427	44.67	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
7049.530	45.60	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
15021.044	48.48	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

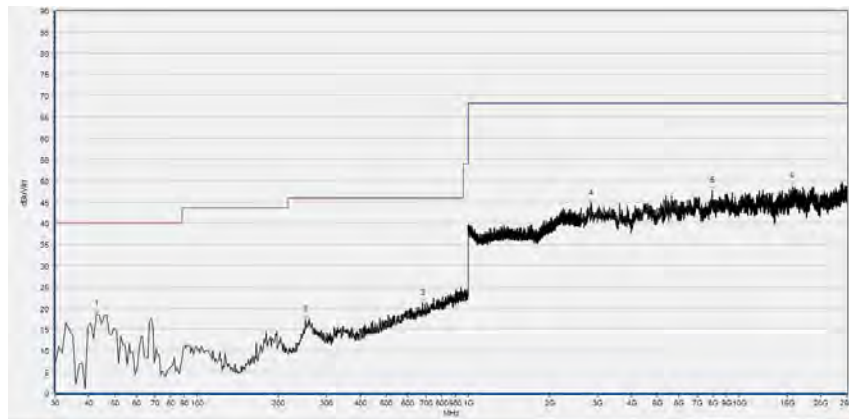
(Antenna Horizontal, 30MHz to 25GHz)



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
34.855	29.42	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
164.965	31.13	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2135.312	43.35	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
7022.645	46.08	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12623.765	46.35	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
23978.356	49.38	N/A	N/A	74.00	N/A	N/A	Vertical	PASS

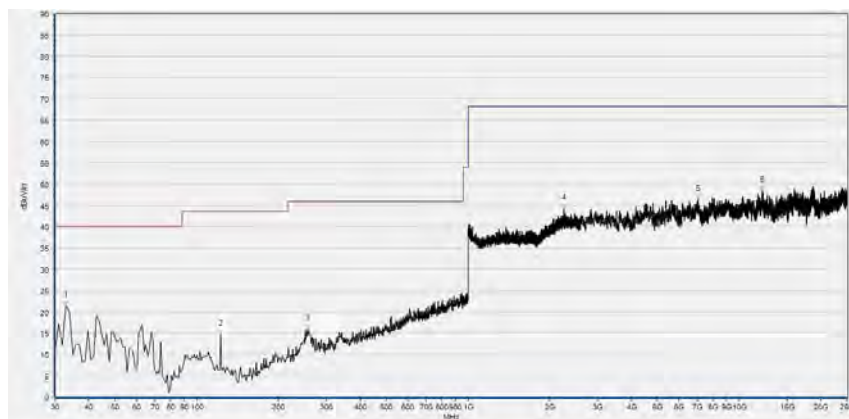
(Antenna Vertical, 30MHz to 25GHz)

Plots for Channel = 149



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
42.623	18.58	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
251.381	17.31	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
677.638	21.04	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2837.487	44.54	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
7932.266	47.66	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
15666.293	48.65	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)

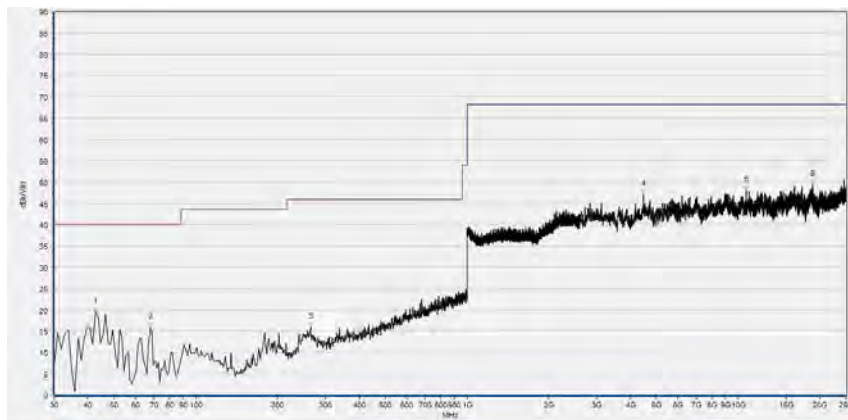


Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
32.913	21.42	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
122.242	14.71	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
256.236	16.11	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2258.553	44.25	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
7045.049	46.38	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12184.637	48.36	N/A	N/A	74.00	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

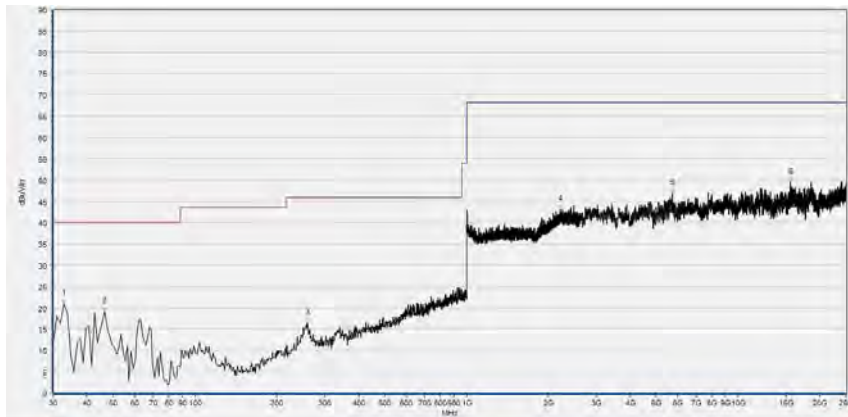


Plot for Channel = 157



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
42.623	19.40	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
67.868	15.76	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
264.975	15.93	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
4473.015	47.08	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10701.460	48.10	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
18816.363	49.39	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

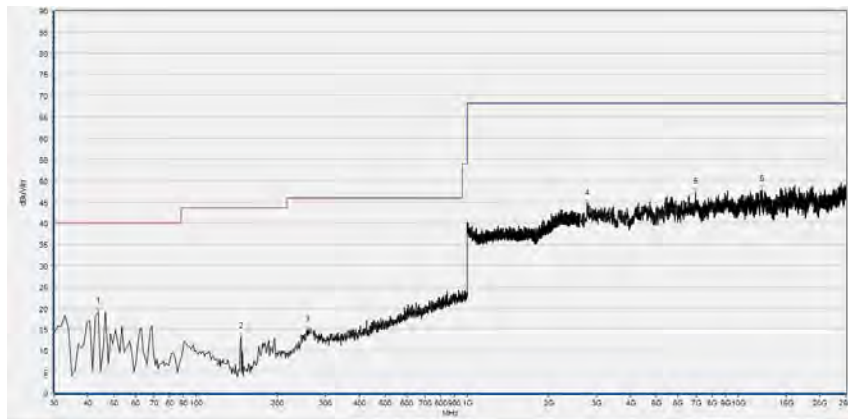
(Antenna Horizontal, 30MHz to 25GHz)



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
32.913	20.87	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
46.507	19.02	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
260.120	16.35	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2212.137	43.00	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
5718.704	46.84	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
15576.675	49.45	N/A	N/A	74.00	N/A	N/A	Vertical	PASS

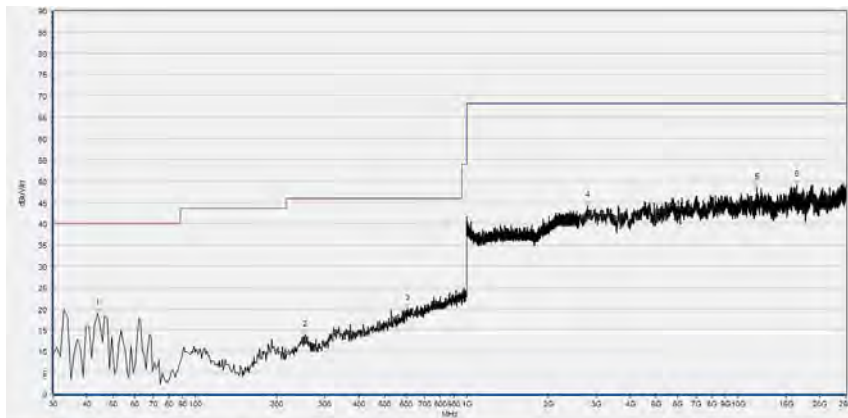
(Antenna Vertical, 30MHz to 25GHz)

Plot for Channel = 165



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
43.594	19.10	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
146.517	13.24	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
258.178	14.85	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2770.274	44.65	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
6950.950	47.18	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12229.446	47.85	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)

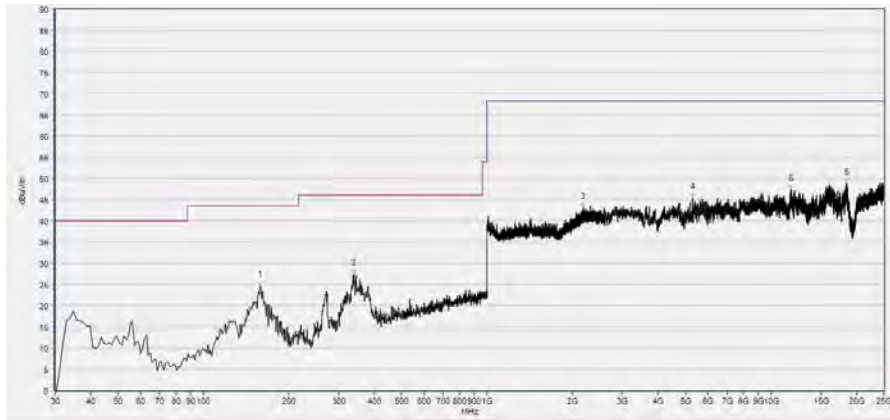


Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
43.594	18.89	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
255.265	13.97	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
606.757	20.05	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2788.198	44.26	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
11723.105	48.39	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
16468.374	49.07	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

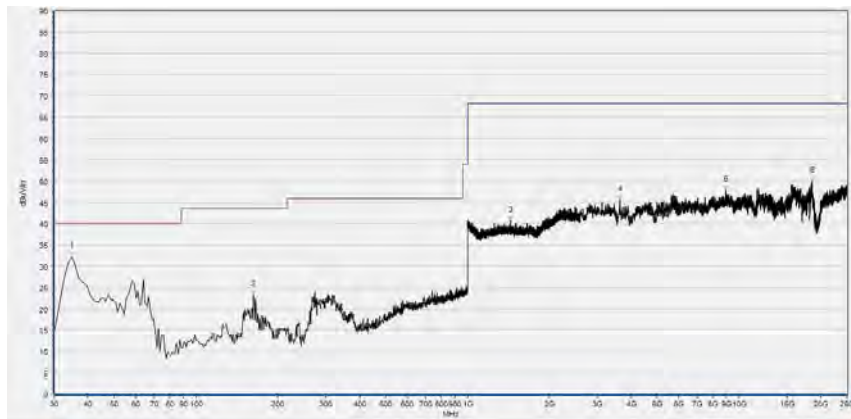
**802.11n (HT40) Test mode**

Plots for Channel = 38



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
158.168	24.62	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
337.798	27.25	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2179.060	43.04	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5279.576	45.28	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11763.433	47.37	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
18511.662	48.67	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

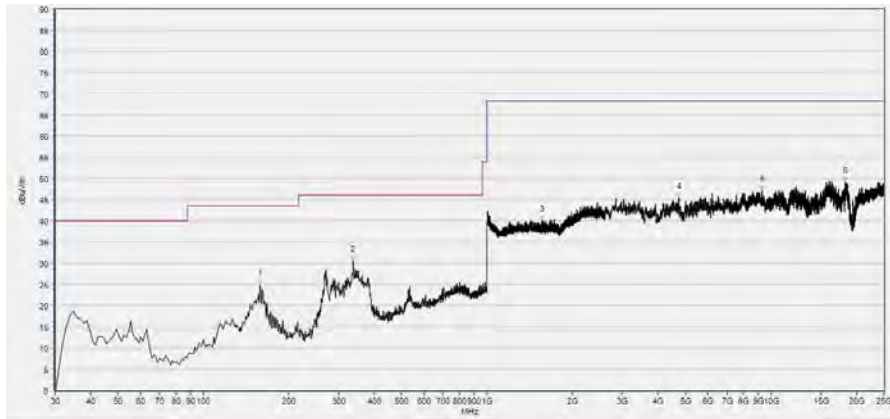
(Antenna Horizontal, 30MHz to 25GHz)



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
34.855	32.18	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
163.023	23.25	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1444.415	40.75	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
3630.606	45.54	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
8909.102	47.98	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
18574.395	49.91	N/A	N/A	74.00	N/A	N/A	Vertical	PASS

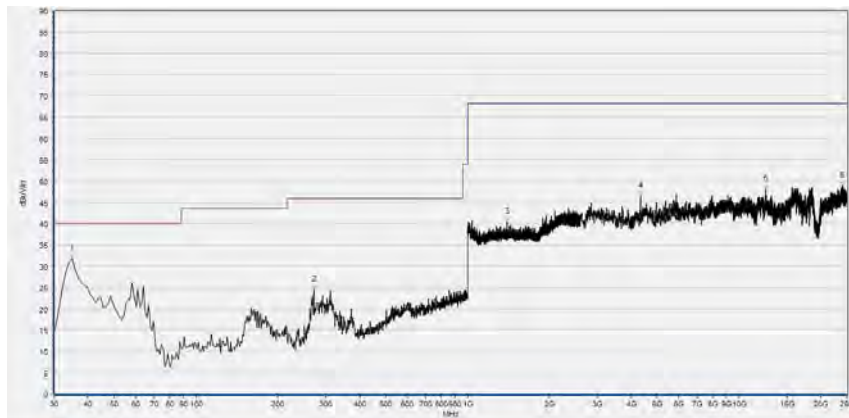
(Antenna Vertical, 30MHz to 25GHz)

Plot for Channel = 46



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
158.168	24.87	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
336.827	30.48	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1556.986	39.96	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
4728.426	45.33	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
9312.382	47.08	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
18318.984	49.18	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
34.855	31.82	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
271.772	24.52	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1401.200	40.32	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
4329.626	46.38	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
12538.628	48.05	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
23893.219	48.79	N/A	N/A	74.00	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)