



(Channel 142, 5710MHz, 802.11n (HT40))



(Channel 151, 5755MHz, 802.11n (HT40))



(Channel 159, 5795MHz, 802.11n (HT40))



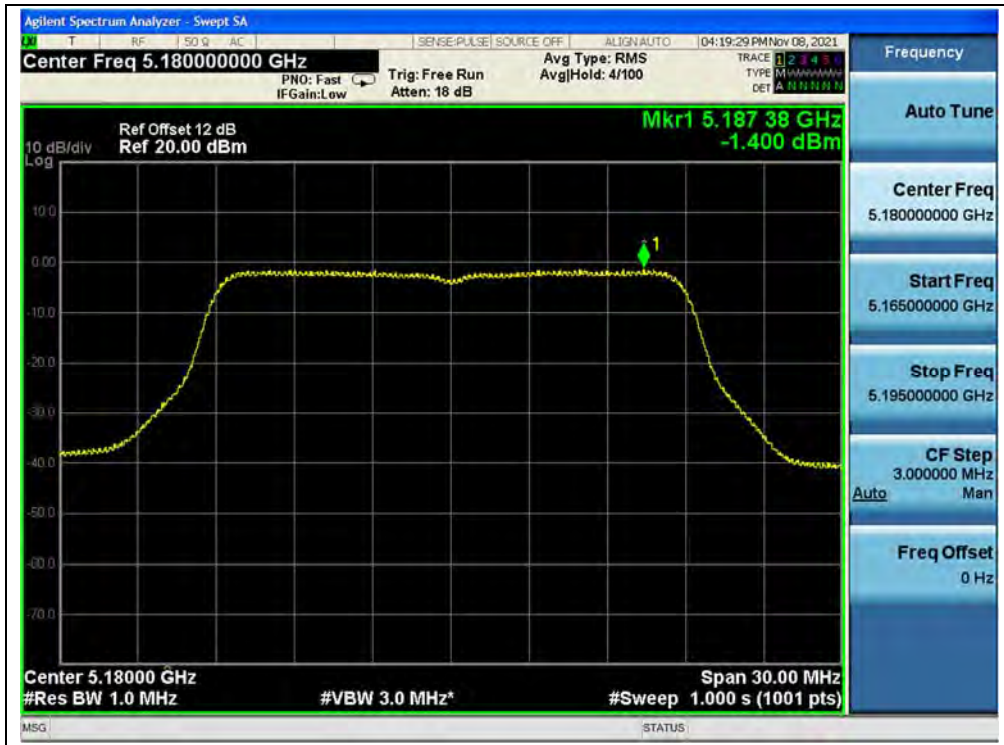
802.11ac (VHT20) Mode

A. Test Verdict:

Channel	Frequency (MHz)	Measured PPSD (dBm/MHz)	Duty Factor	Corrected PPSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
36	5180	-1.40	0.81	-0.59	11	PASS
44	5220	-1.22		-0.41		
48	5240	-0.77		0.04		
52	5260	-0.70		0.11		
60	5300	-0.14		0.67		
64	5320	0.38		1.19		
100	5500	0.58		1.39		
120	5600	-0.74		0.07		
144	5720	-2.87		-2.06		
Channel	Frequency (MHz)	Measured PPSD (dBm/500KHz)	Duty Factor	Corrected (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
144	5720	-5.67	0.81	-4.86	30	PASS
149	5745	-6.54		-5.73		
157	5785	-7.42		-6.61		
165	5825	-7.79		-6.98		



B. Test Plot:



(Channel 36, 5180MHz, 802.11ac (VHT20))



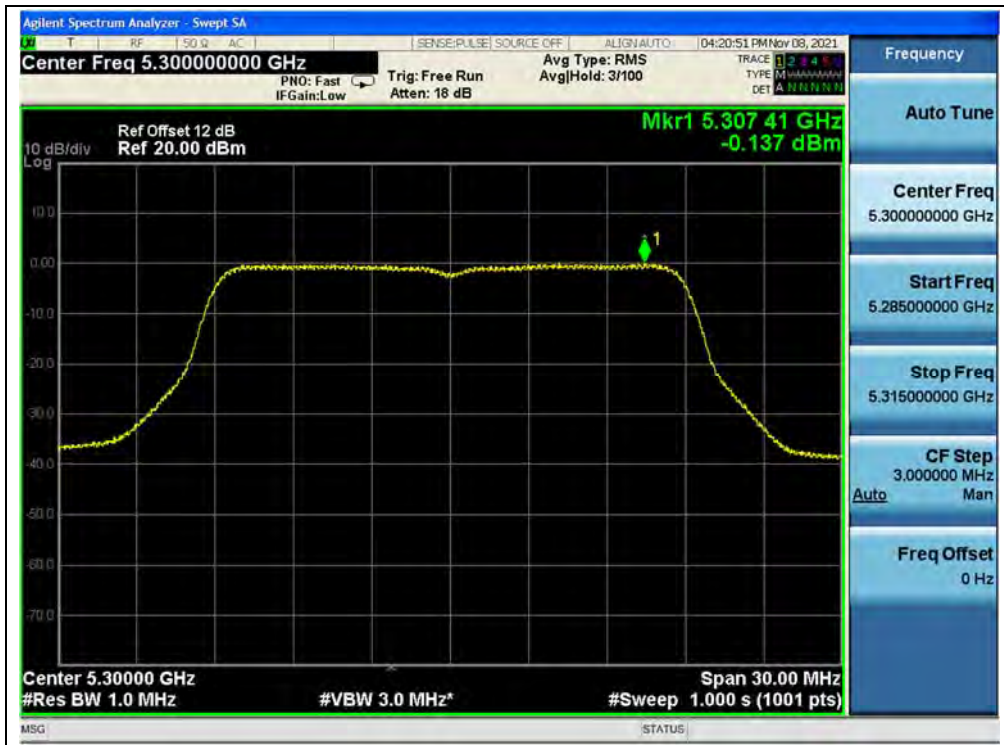
(Channel 44, 5220MHz, 802.11ac (VHT20))



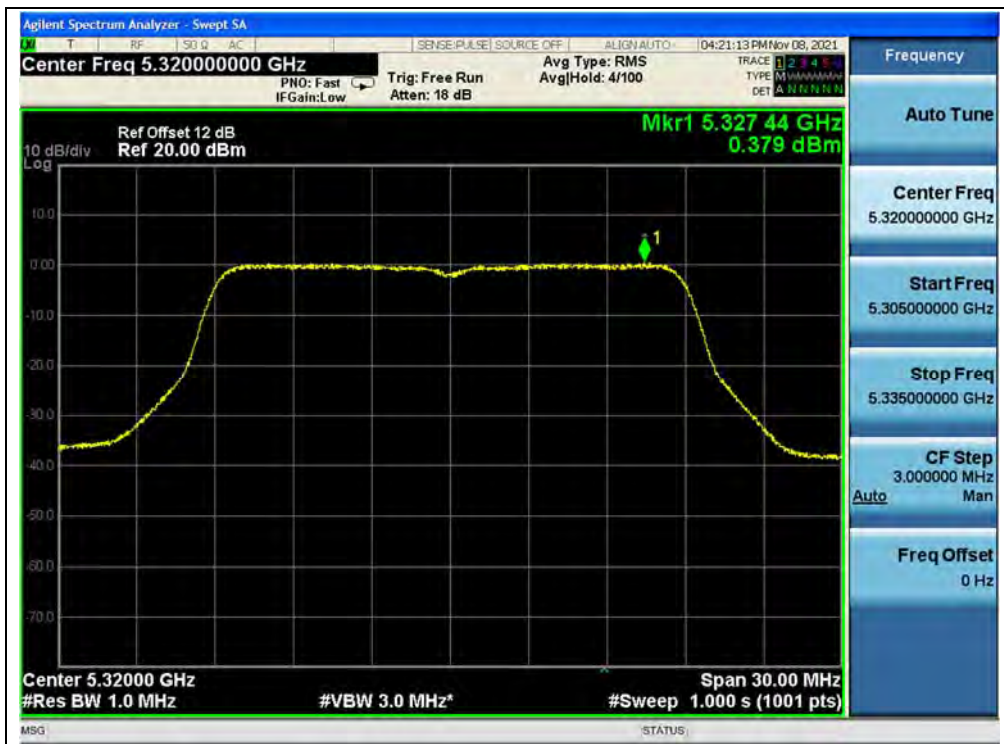
(Channel 48, 5240MHz, 802.11ac (VHT20))



(Channel 52, 5260MHz, 802.11ac (VHT20))



(Channel 60, 5300MHz, 802.11ac (VHT20))



(Channel 64, 5320MHz, 802.11ac (VHT20))



(Channel 100, 5500MHz, 802.11ac (VHT20))



(Channel 120, 5600MHz, 802.11ac (VHT20))



(Channel 144, 5720MHz, 802.11ac (VHT20))



(Channel 144, 5720MHz, 802.11ac(VHT20))



(Channel 149, 5745MHz, 802.11ac (VHT20))



(Channel 157, 5785MHz, 802.11ac (VHT20))



(Channel 165, 5825MHz, 802.11ac (VHT20))



802.11ac (VHT40) Mode

A. Test Verdict:

Channel	Frequency (MHz)	Measured PPSD (dBm/MHz)	Duty Factor	Corrected PPSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
38	5190	-4.24	1.49	-2.75	11	PASS
46	5230	-3.74		-2.25		
54	5270	-3.41		-1.92		
62	5310	-2.83		-1.34		
102	5510	-2.61		-1.12		
126	5630	-4.16		-2.67		
142	5710	-5.45		-3.96		
Channel	Frequency (MHz)	Measured PPSD (dBm/500KHz)	Duty Factor	Corrected (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
142	5710	-8.41	1.49	-6.92	30	PASS
151	5755	-9.75		-8.26		
155	5795	-10.31		-8.82		

B. Test Plot:



(Channel 38, 5190MHz, 802.11ac (VHT40))



(Channel 46, 5230MHz, 802.11ac (VHT40))



(Channel 54, 5270MHz, 802.11ac (VHT40))



(Channel 62, 5310MHz, 802.11ac (VHT40))



(Channel 102, 5510MHz, 802.11ac (VHT40))



(Channel 126, 5630MHz, 802.11ac (VHT40))



(Channel 142, 5710MHz, 802.11ac (VHT40))



(Channel 142, 5710MHz, 802.11ac (VHT40))



(Channel 151, 5755MHz, 802.11ac (VHT40))



(Channel 159, 5795MHz, 802.11ac (VHT40))



802.11ac (VHT80) Mode

A. Test Verdict:

Channel	Frequency (MHz)	Measured PSD (dBm/MHz)	Duty Factor	Corrected PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
42	5210	-9.67	2.55	-7.12	11	PASS
58	5290	-8.68		-6.13		
106	5530	-8.09		-5.54		
122	5610	-9.29		-6.74		
138	5690	-10.60		-8.05		
Channel	Frequency (MHz)	Measured PSD (dBm/500KHz)	Duty Factor	Corrected (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
138	5690	-13.49	2.55	-10.94	30	PASS
155	5775	-15.51		-12.96		

B. Test Plot:



(Channel 42, 5210MHz, 802.11ac (VHT80))



(Channel 58, 5290MHz, 802.11ac (VHT80))



(Channel 106, 5530MHz, 802.11ac (VHT80))



(Channel 122, 5610MHz, 802.11ac (VHT80))



(Channel 138, 5690MHz, 802.11ac (VHT80))



(Channel 138, 5690MHz, 802.11ac (VHT80))



(Channel 155, 5775MHz, 802.11ac (VHT80))



2.6. Frequency Stability

2.6.1. Requirement

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

2.6.2. Test Procedure

The EUT was placed inside of an environmental chamber as the temperature in the chamber was varied between 5°C to 40°C. The temperature was incremented by 10° intervals and the unit was allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded. Data for the worst case channel is shown below.

2.6.3. Test Result

U-NII-1 (Ch. 36) 5180MHz				
VOLTAGE (%)	POWER (VDC)	TEMP (°C)	Fre. Dev. (kHz)	Deviation (ppm)
100%	5.00	+20(Ref)	21	4.054
100%		-30	28	5.405
100%		-20	27	5.212
100%		-10	26	5.019
100%		0	24	4.633
100%		+10	21	4.054
100%		+20	23	4.440
100%		+30	22	4.247
100%		+40	24	4.633
100%		+50	21	4.054
115%		5.75	+20	27
85%	4.25	+20	29	5.598



U-NII-2A (Ch. 52)				
5260MHz				
VOLTAGE (%)	POWER (VDC)	TEMP (°C)	Fre. Dev. (kHz)	Deviation (ppm)
100%	5.00	+20(Ref)	19	3.612
100%		-30	21	3.992
100%		-20	24	4.563
100%		-10	26	4.943
100%		0	21	3.992
100%		+10	18	3.422
100%		+20	20	3.802
100%		+30	25	4.753
100%		+40	29	5.513
100%		+50	24	4.563
115%	5.75	+20	18	3.422
85%	4.25	+20	23	4.373

U-NII-2C (Ch. 100)				
5500MHz				
VOLTAGE (%)	POWER (VDC)	TEMP (°C)	Fre. Dev. (kHz)	Deviation (ppm)
100%	5.00	+20(Ref)	22	4.000
100%		-30	24	4.364
100%		-20	28	5.091
100%		-10	27	4.909
100%		0	23	4.182
100%		+10	19	3.455
100%		+20	22	4.000
100%		+30	31	5.636
100%		+40	34	6.182
100%		+50	26	4.727
115%	5.75	+20	28	5.091
85%	4.25	+20	24	4.364



U-NII-3 (Ch. 149)				
5745MHz				
VOLTAGE (%)	POWER (VDC)	TEMP (°C)	Fre. Dev. (kHz)	Deviation (ppm)
100%	5.00	+20(Ref)	21	3.655
100%		-30	25	4.352
100%		-20	26	4.526
100%		-10	22	3.829
100%		0	29	5.048
100%		+10	24	4.178
100%		+20	25	4.352
100%		+30	23	4.003
100%		+40	24	4.178
100%		+50	21	3.655
115%		5.75	+20	29
85%	4.25	+20	28	4.874

2.7. Conducted Emission

2.7.1. Requirement

According to FCC section 15.207, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

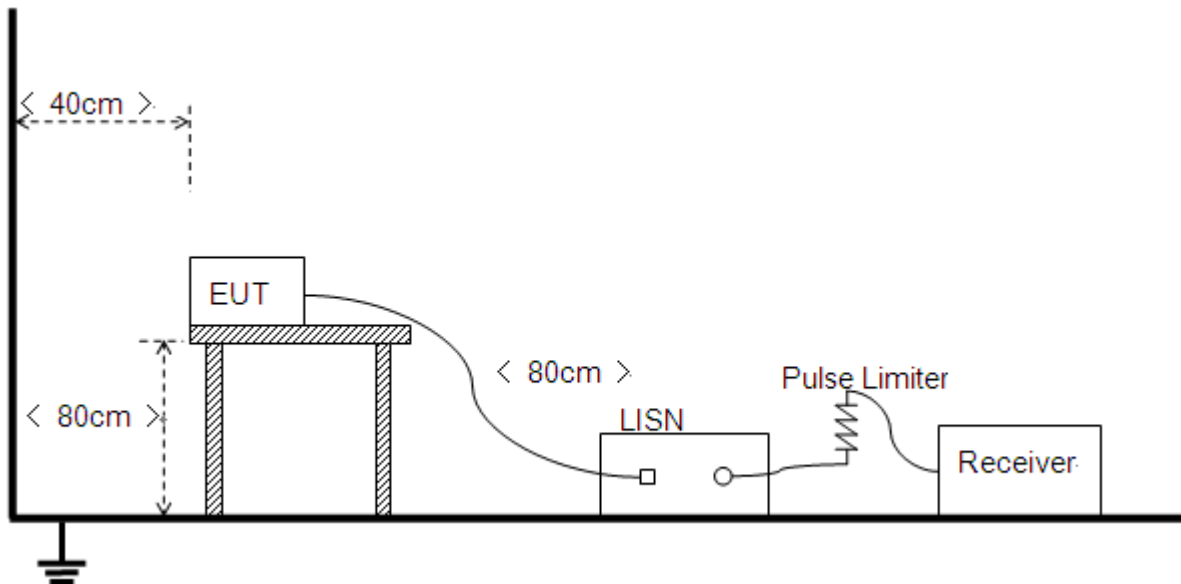
Frequency Range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

Note:

- (a) The lower limit shall apply at the band edges.
- (b) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

2.7.2. Test Description

Test Setup:



The Table-top EUT was placed upon a non-metallic table 0.8m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80cm from LISN. The set-up and test methods were according to ANSI C63.10: 2013.



2.7.3. Test Result

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Set RBW=9kHz, VBW=30kHz. Refer to recorded points and Plot below.

Note: Both of the test voltage AC 120V/60Hz and AC 230V/50Hz were considered and tested respectively, only the results of the worst case AC 120V/60Hz were recorded in this report.

A. Test Setup:

Test Mode: EUT+ Adapter power supply + headset + WIFI TX

Test Voltage: AC 120V/60Hz

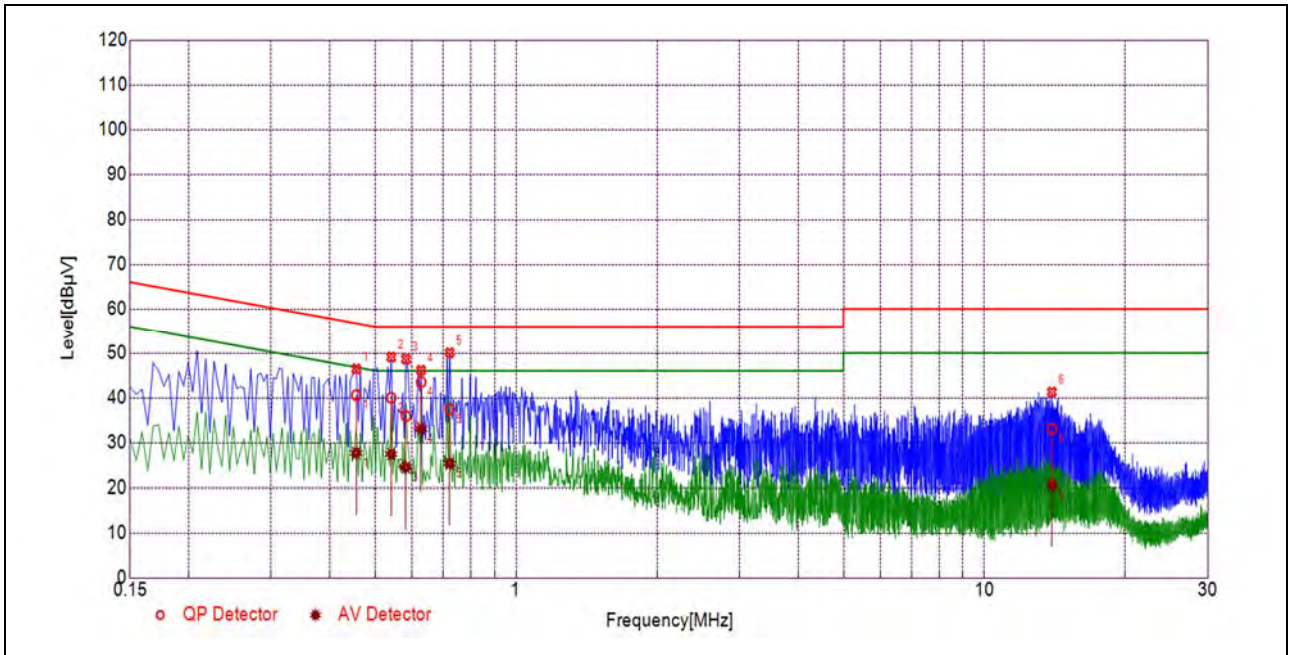
The measurement results are obtained as below:

$$E \text{ [dB}\mu\text{V]} = U_R + L_{\text{Cable loss}} \text{ [dB]} + A_{\text{Factor}}$$

U_R : Receiver Reading

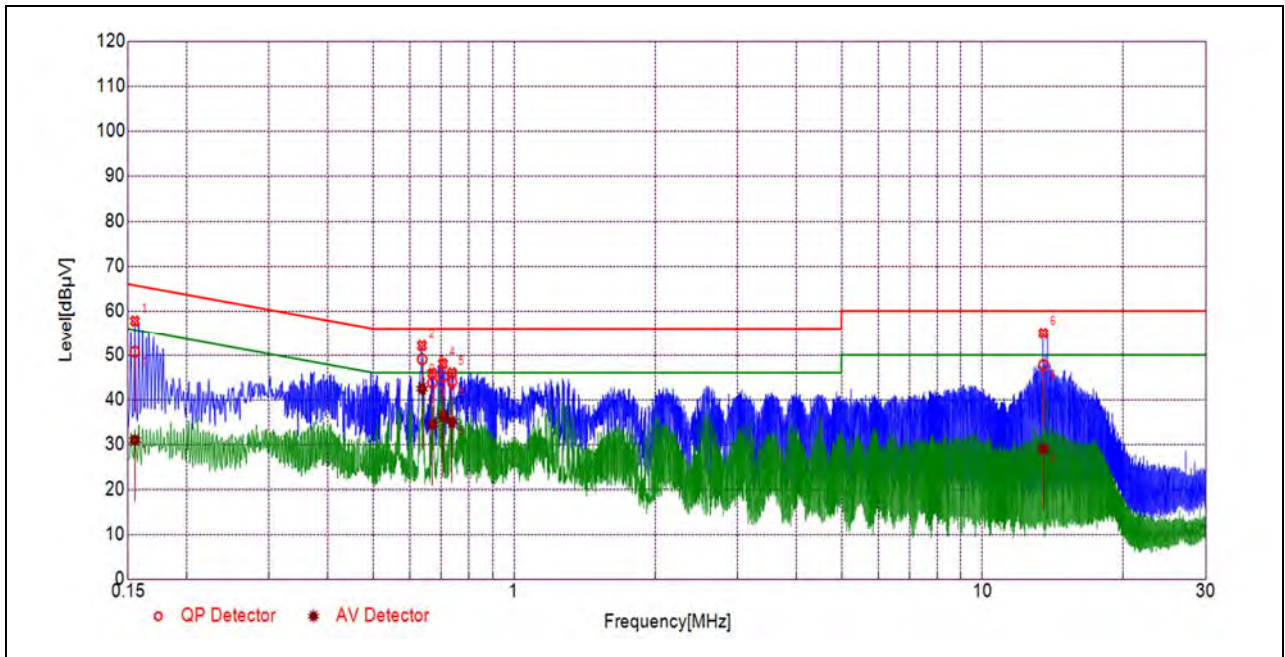
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.4557	40.58	27.67	56.77	46.77	Line	PASS
2	0.5412	39.98	27.44	56.00	46.00		PASS
3	0.5818	35.92	24.45	56.00	46.00		PASS
4	0.6272	43.49	33.03	56.00	46.00		PASS
5	0.7215	37.42	25.35	56.00	46.00		PASS
6	13.9462	33.09	20.58	60.00	50.00		PASS



(N Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1550	50.70	30.94	65.73	55.73	Neutral	PASS
2	0.6365	49.01	42.43	56.00	46.00		PASS
3	0.6693	43.76	34.42	56.00	46.00		PASS
4	0.7057	45.17	36.28	56.00	46.00		PASS
5	0.7368	43.98	35.07	56.00	46.00		PASS
6	13.4931	47.71	29.01	60.00	50.00		PASS



2.8. Restricted Frequency Bands

2.8.1. 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:
 - (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

The following formula is used to convert the equipment isotropic radiated power(e.i.r.p.) 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

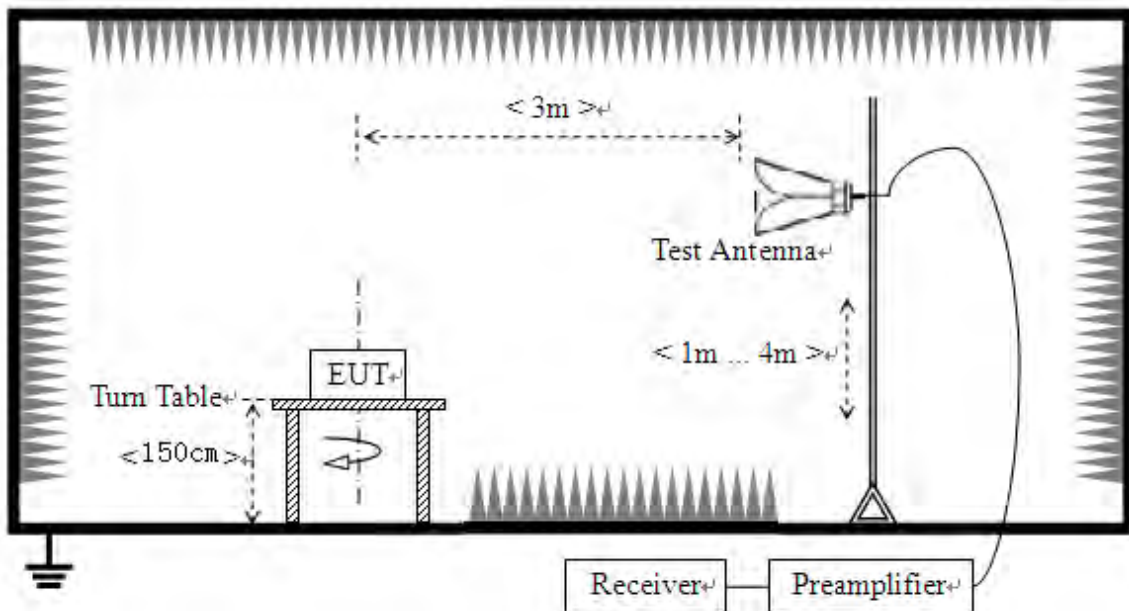
Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209. According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following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

Frequency (MHz)	Field Strength ($\mu\text{V}/\text{m}$)	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

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).

2.8.2. Test Description

Test Setup





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.

KDB 789033 Section H) 3)5)6(d)) was used in order to prove compliance

For the Test Antenna:

Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength.

2.8.3. Test Result

The lowest and highest channels are tested to verify Restricted Frequency Bands.

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

Note 1: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (vertical) was recorded in this test report.

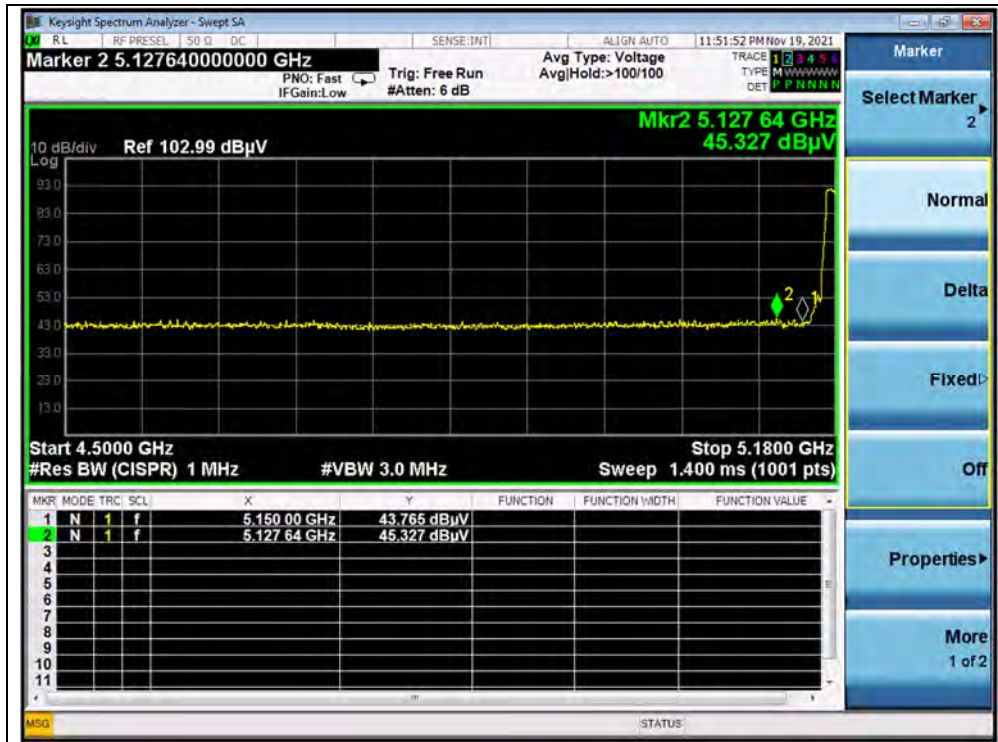
Note 2 All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.

802.11a Mode

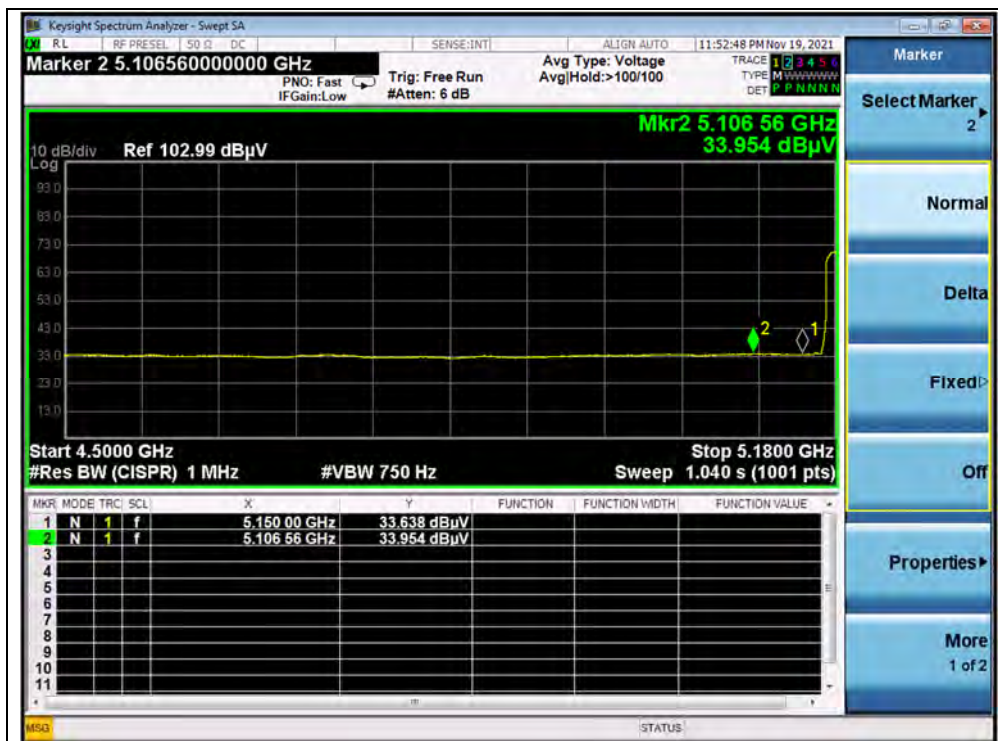
A.Test Verdict:

Channel	Frequency (MHz)	Detector	Receiver Reading	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV	U_R (dB μ V)					
36	5127.64	PK	45.33	-19.54	32.20	57.99	74	PASS
36	5106.56	AV	33.95	-19.54	32.20	46.61	54	PASS
64	5372.22	PK	43.81	-18.80	32.20	57.21	74	PASS
64	5355.98	AV	32.45	-18.80	32.20	45.85	54	PASS
100	5460.00	PK	41.91	-19.20	32.20	54.91	74	PASS
100	5198.88	AV	33.55	-19.20	32.20	46.55	54	PASS
144	5798.10	PK	45.14	-19.20	32.20	58.14	68.23	PASS
149	5725.00	PK	44.17	-19.01	32.20	57.36	122.23	PASS
165	5880.00	PK	42.86	-19.01	32.20	56.05	101.53	PASS

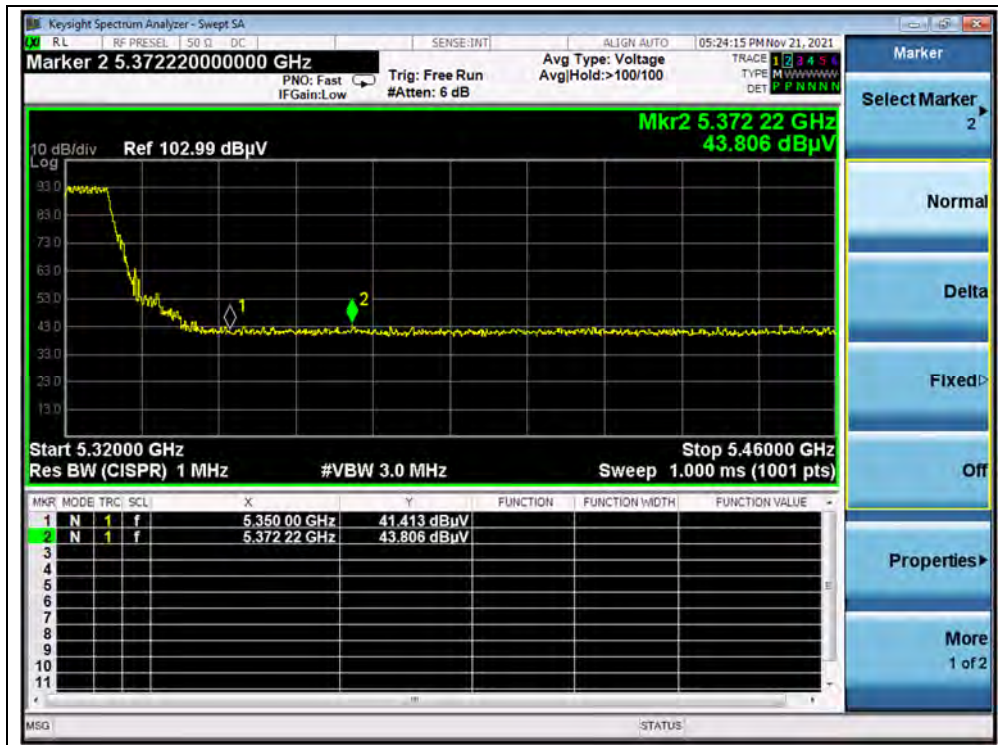
B.Test Plot:



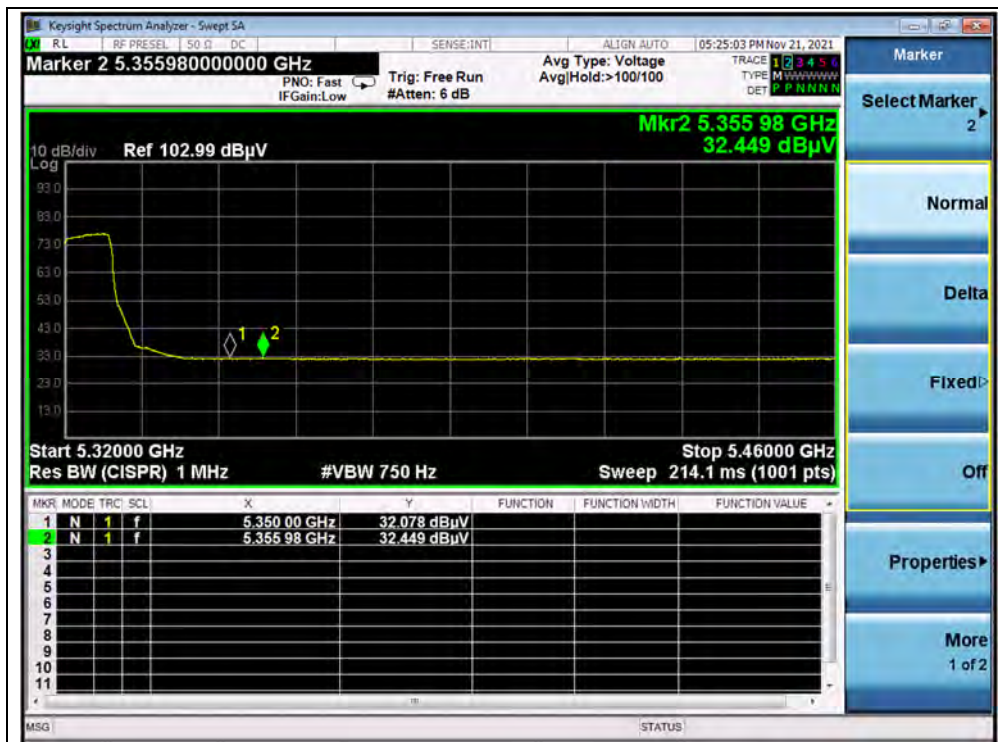
(PEAK, Channel 36, 802.11a)



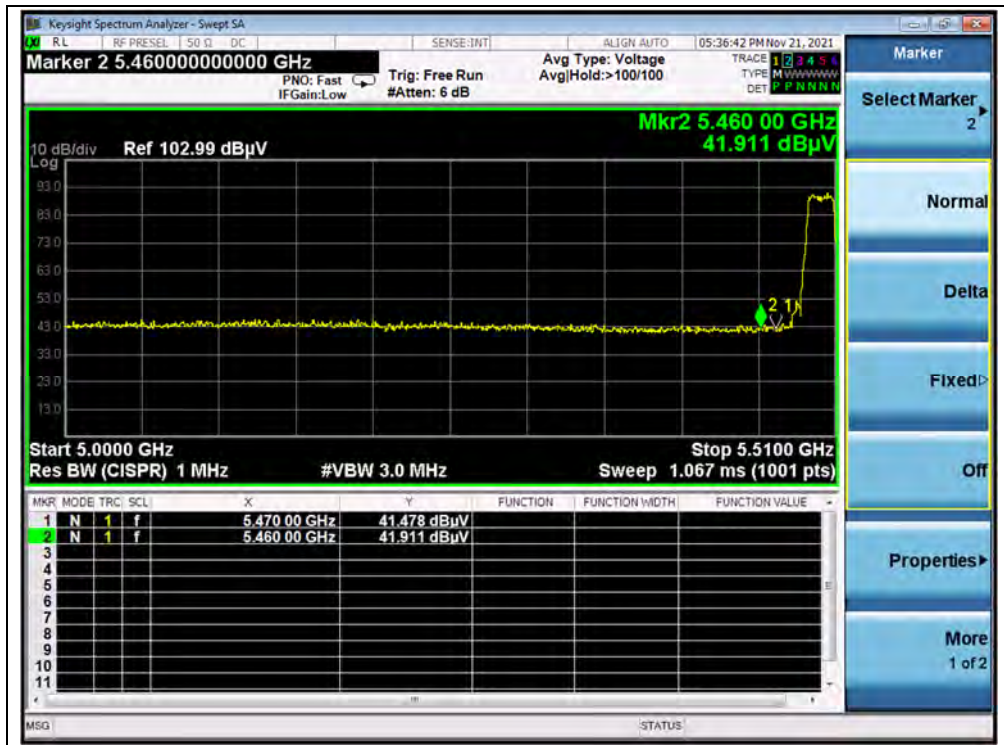
(AVERAGE, Channel 36, 802.11a)



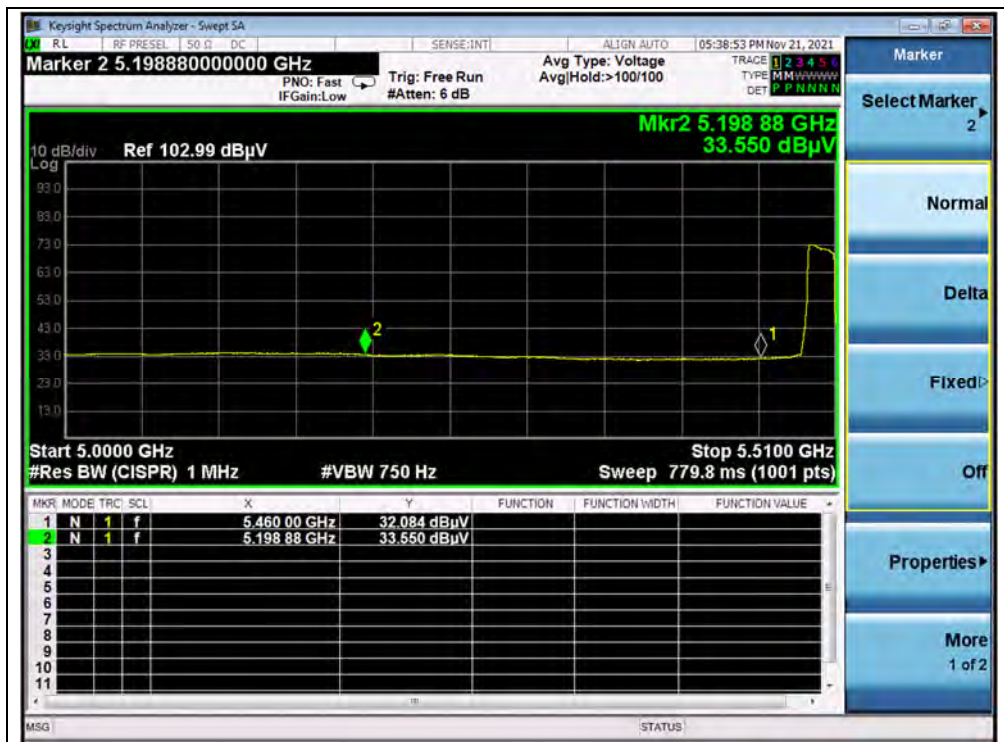
(PEAK, Channel 64, 802.11a)



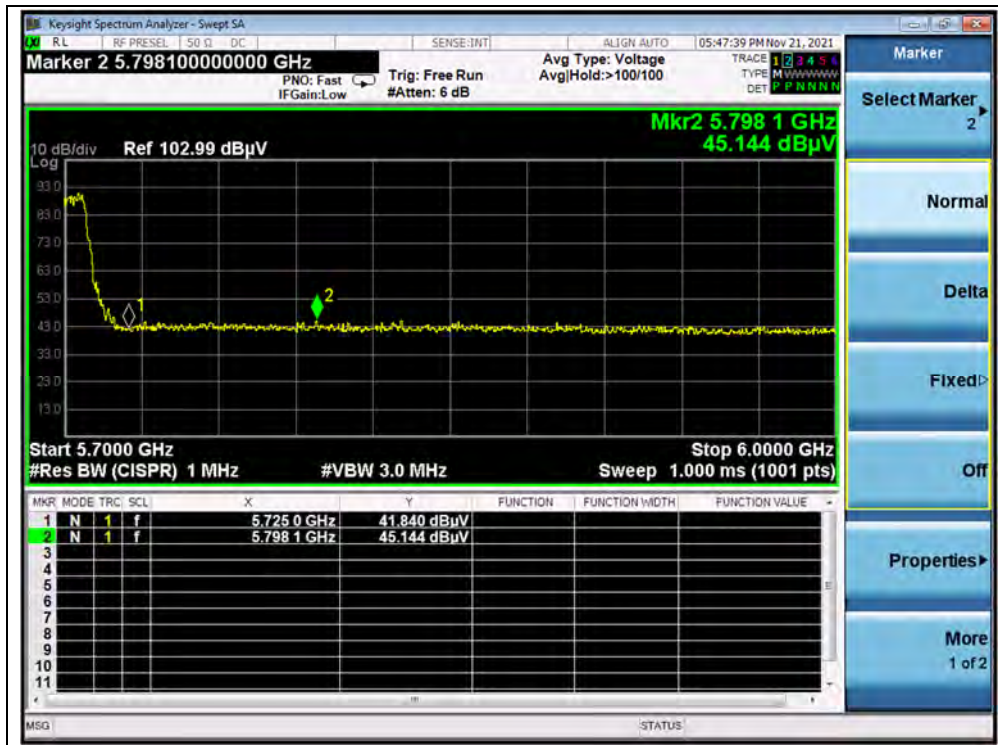
(AVERAGE, Channel 64, 802.11a)



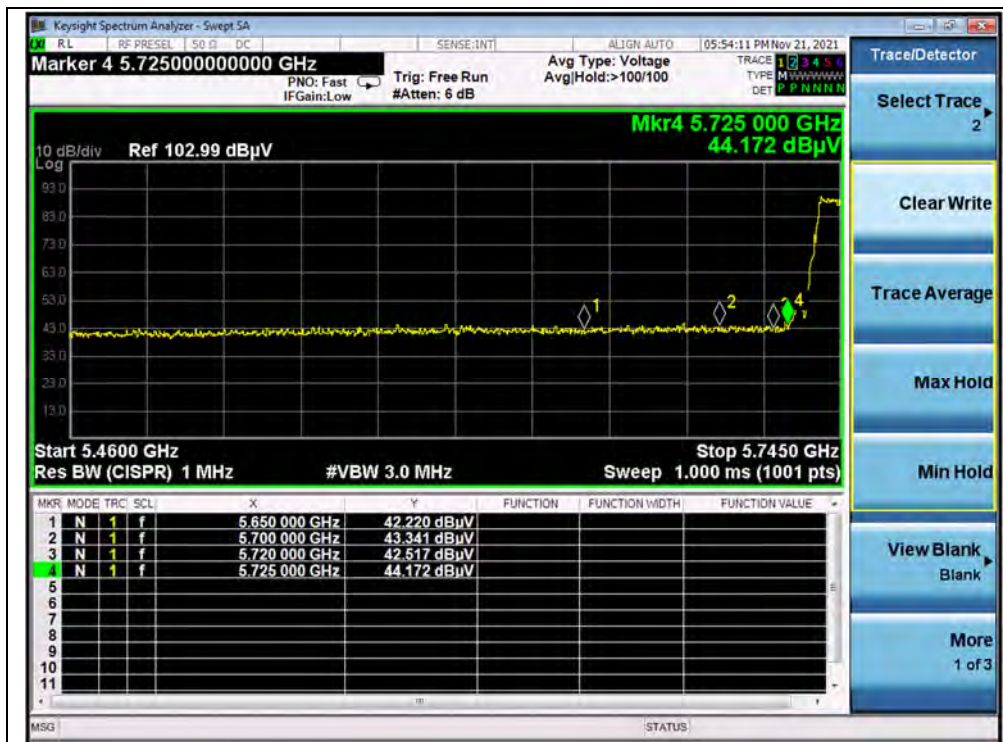
(PEAK, Channel 100, 802.11a)



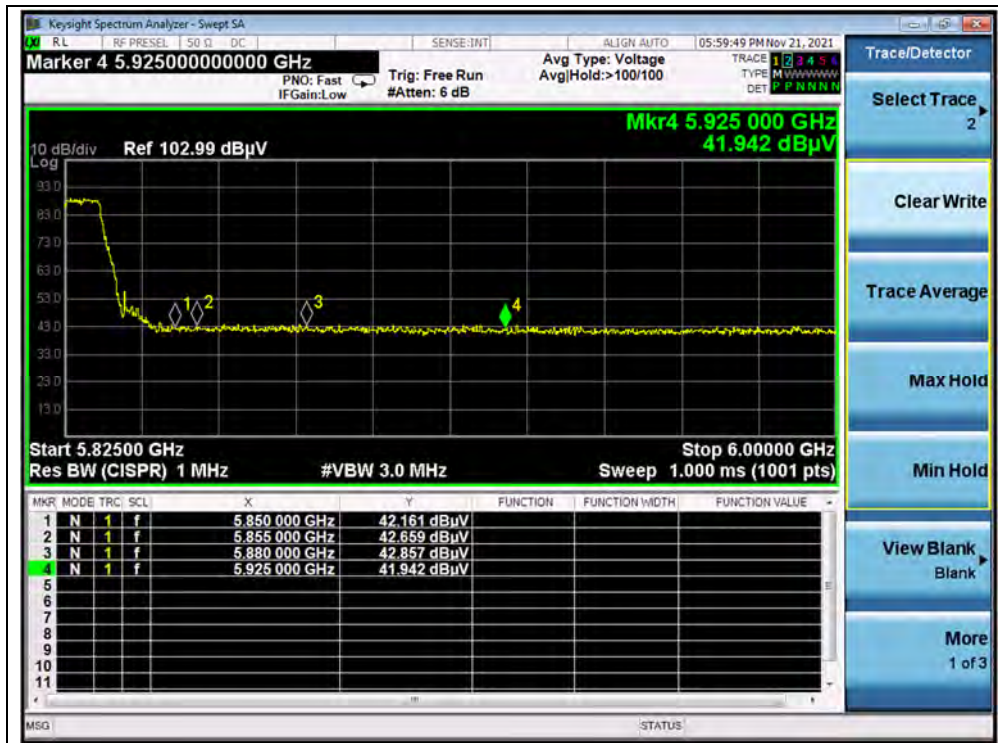
(AVERAGE, Channel 100, 802.11a)



(PEAK, Channel 144, 802.11a)



(PEAK, Channel 149, 802.11a)

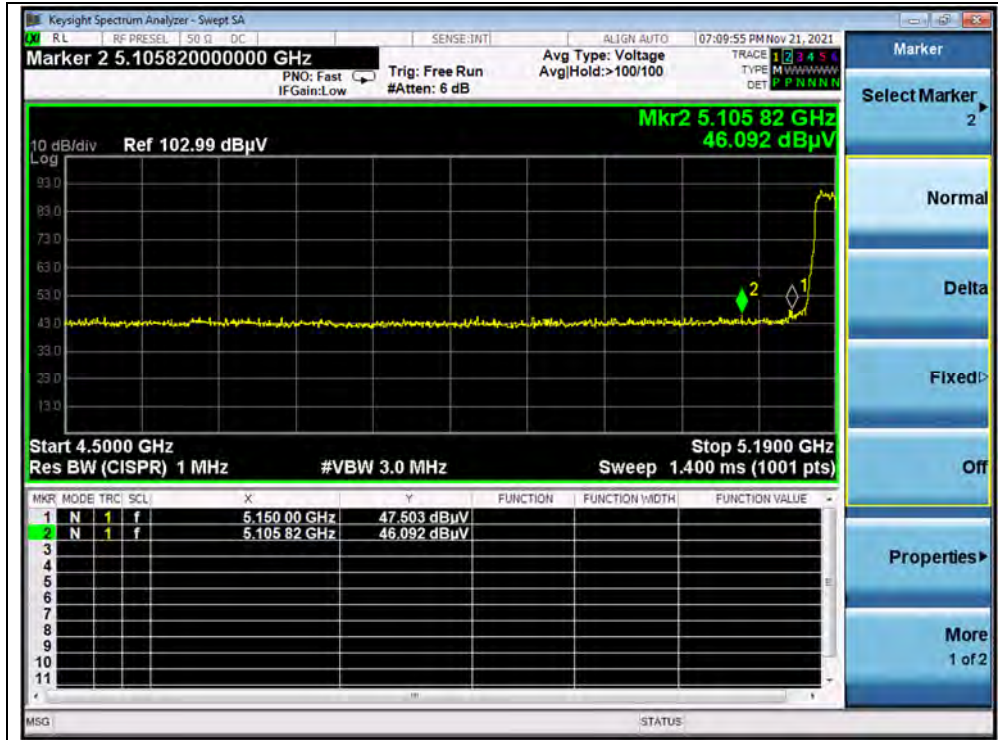


(PEAK, Channel 165, 802.11a)

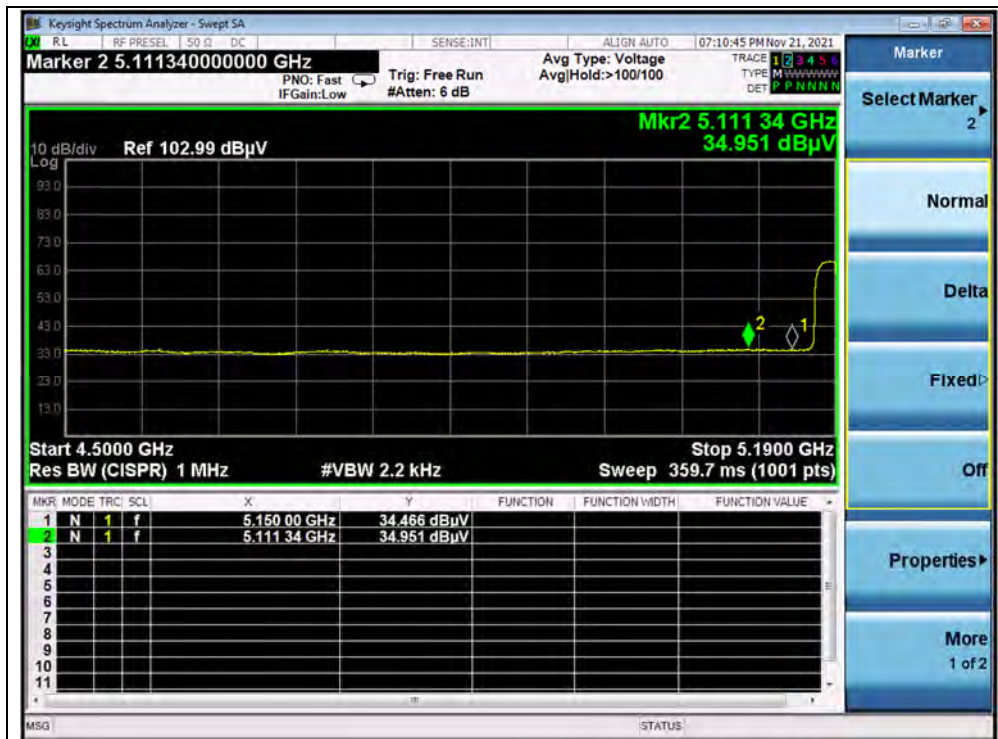
**802.11n (HT40) Mode****A.Test Verdict:**

Channel	Frequency (MHz)	Detector	Receiver Reading	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV	U_R (dB μ V)					
38	5150.00	PK	47.50	-19.54	32.20	60.16	74	PASS
38	5111.34	AV	34.95	-19.54	32.20	47.61	54	PASS
62	5353.35	PK	42.90	-18.80	32.20	56.30	74	PASS
62	5350.00	AV	32.72	-18.80	32.20	46.12	54	PASS
102	5470.00	PK	40.83	-19.20	32.20	53.83	68.23	PASS
102	5460.00	AV	32.74	-19.20	32.20	45.74	54	PASS
142	5823.78	PK	43.66	-19.20	32.20	56.66	68.23	PASS
151	5725.30	PK	42.35	-19.01	32.20	55.54	122.23	PASS
159	5855.00	PK	42.97	-19.01	32.20	56.16	110.83	PASS

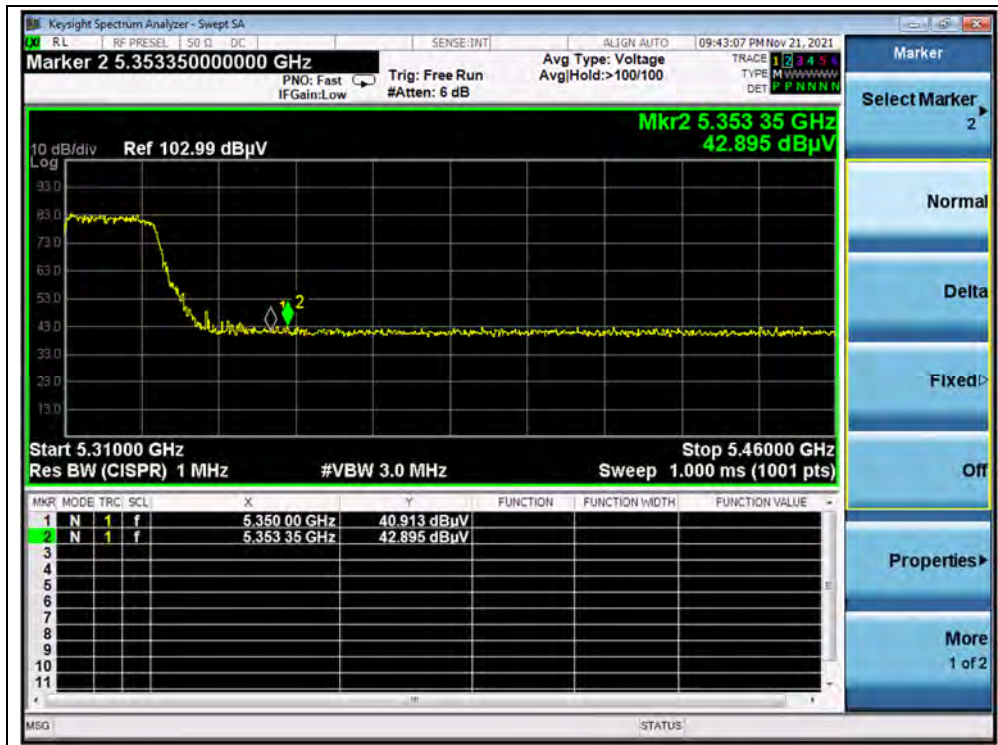
B.Test Plot:



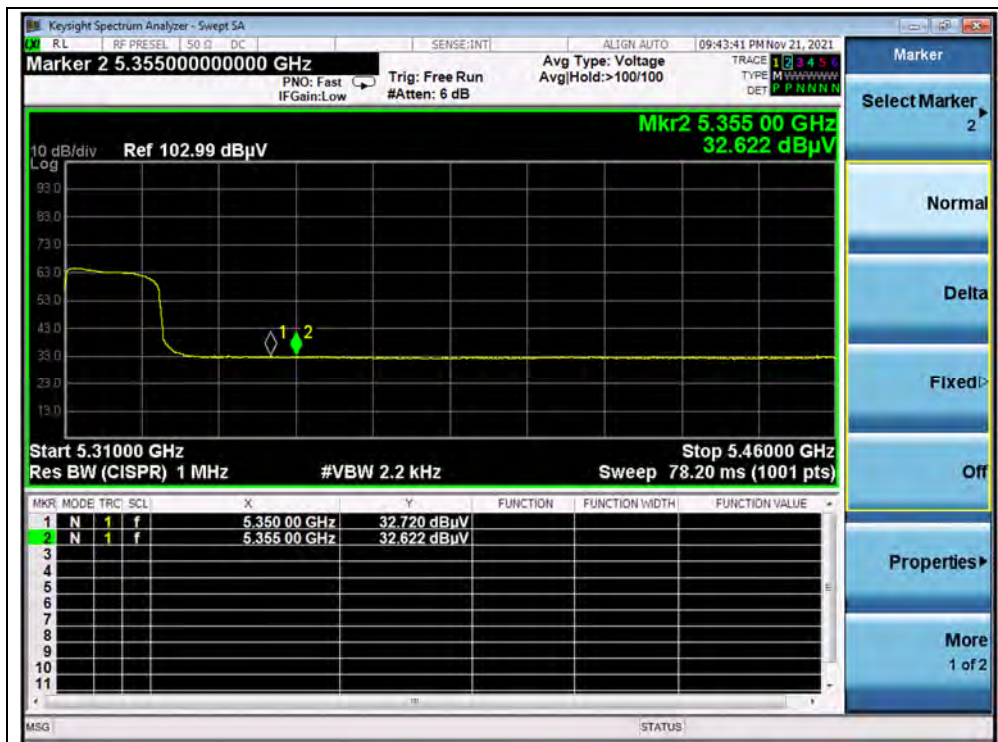
(PEAK, Channel 38, 802.11n (HT40))



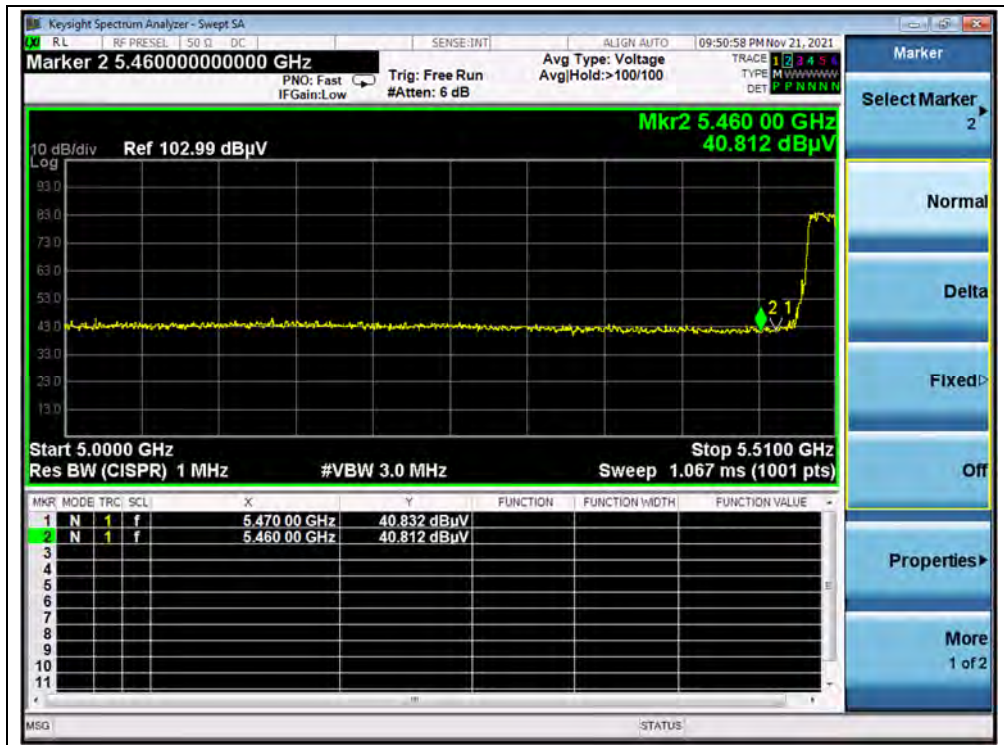
(AVERAGE, Channel 38, 802.11n (HT40))



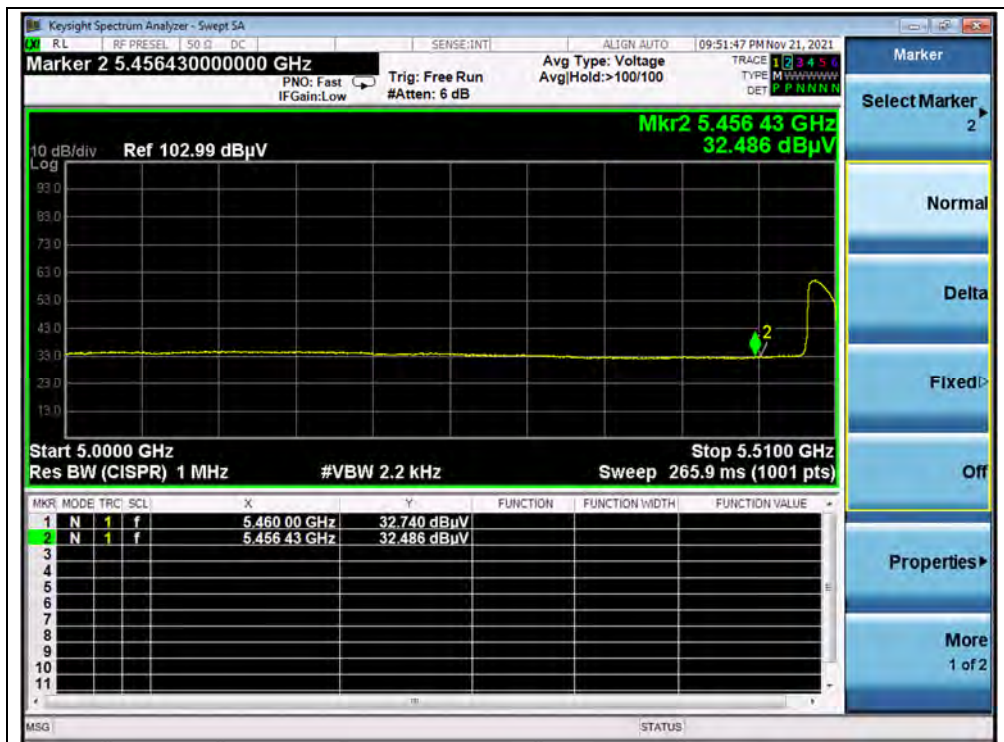
(PEAK, Channel 62, 802.11n (HT40))



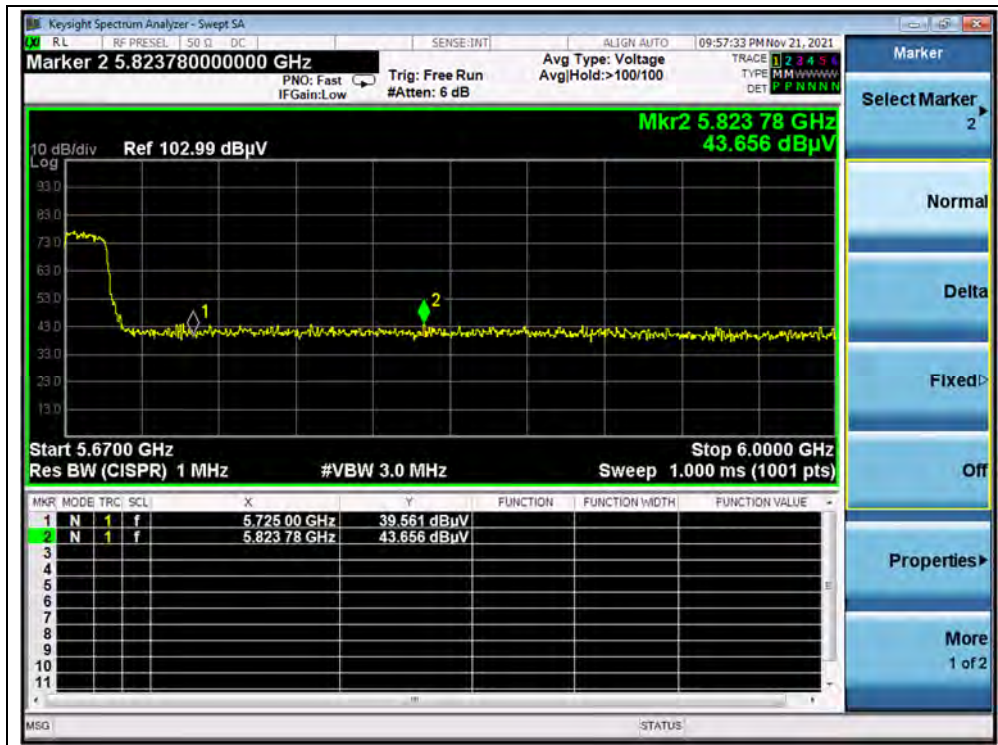
(AVERAGE, Channel 62, 802.11n (HT40))



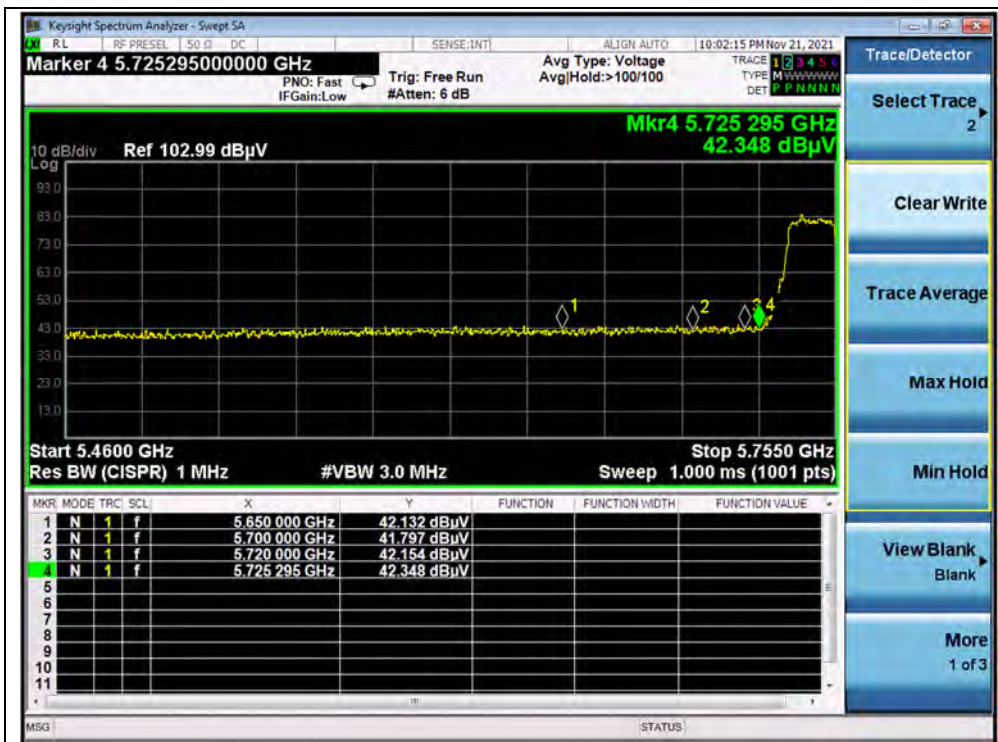
(PEAK, Channel 102, 802.11n (HT40))



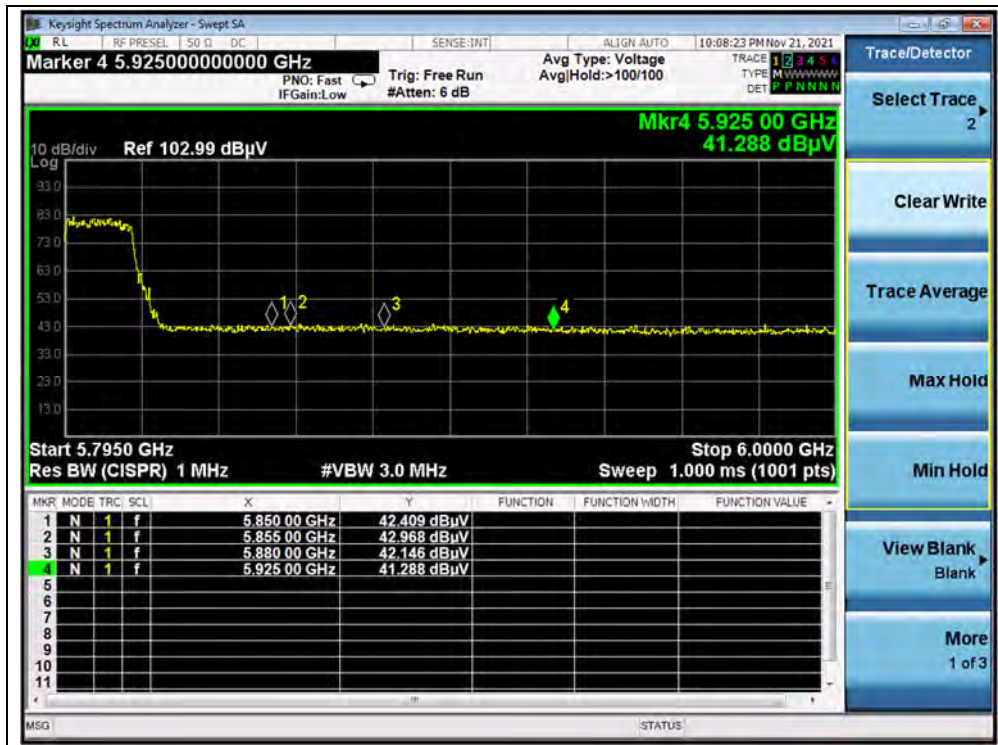
(AVERAGE, Channel 102, 802.11n (HT40))



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



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

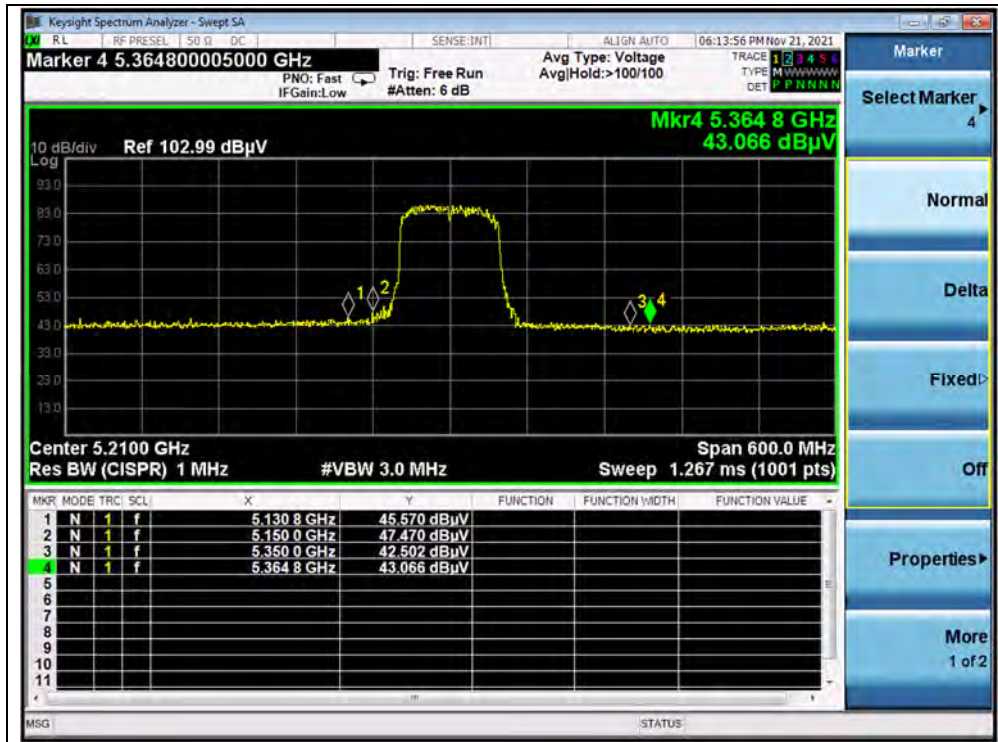


(PEAK, Channel 159, 802.11n (HT40))

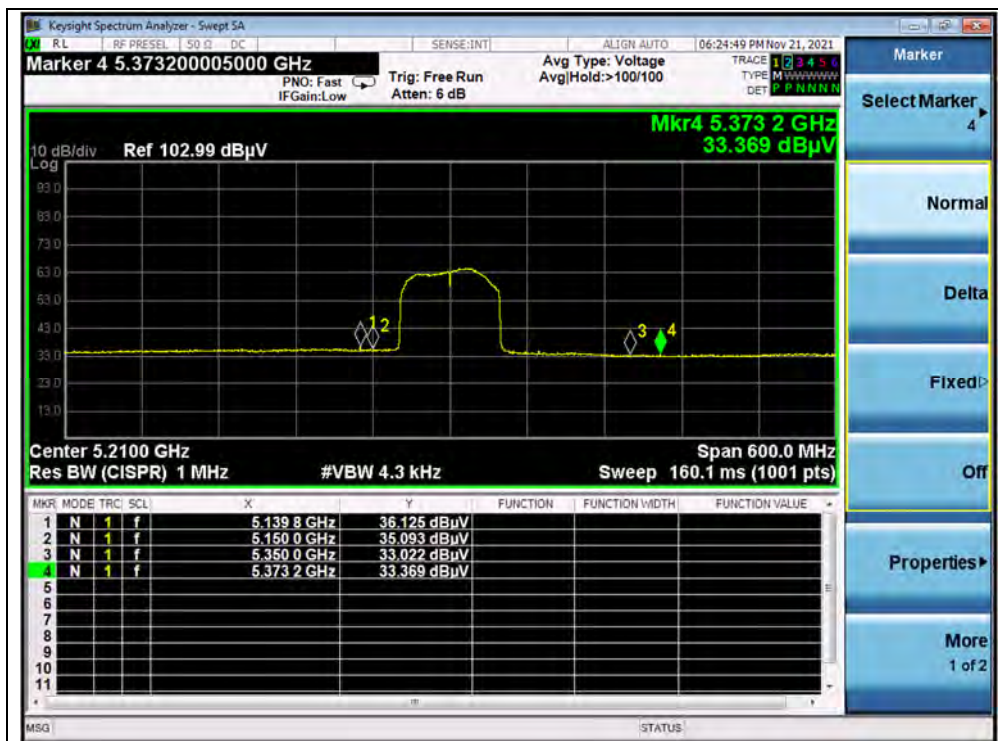
**802.11ac (VHT80) Mode****A.Test Verdict:**

Channel	Frequency (MHz)	Detector	Receiver Reading	A _T (dB)	A _{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV	U _R (dBμV)					
42	5150.00	PK	47.47	-19.54	32.20	60.13	74	PASS
42	5139.80	AV	36.13	-19.54	32.20	48.79	54	PASS
58	5129.80	PK	44.33	-18.80	32.20	57.73	74	PASS
58	5126.80	AV	35.14	-18.80	32.20	48.54	54	PASS
106	5470.00	PK	42.67	-19.20	32.20	55.67	68.23	PASS
106	5121.86	AV	35.56	-19.20	32.20	48.56	54	PASS
138	5769.90	PK	44.70	-19.20	32.20	57.70	68.23	PASS
155	5725.00	PK	43.77	-19.01	32.20	56.96	122.23	PASS
155	5875.00	PK	42.48	-19.01	32.20	55.67	54.83	PASS

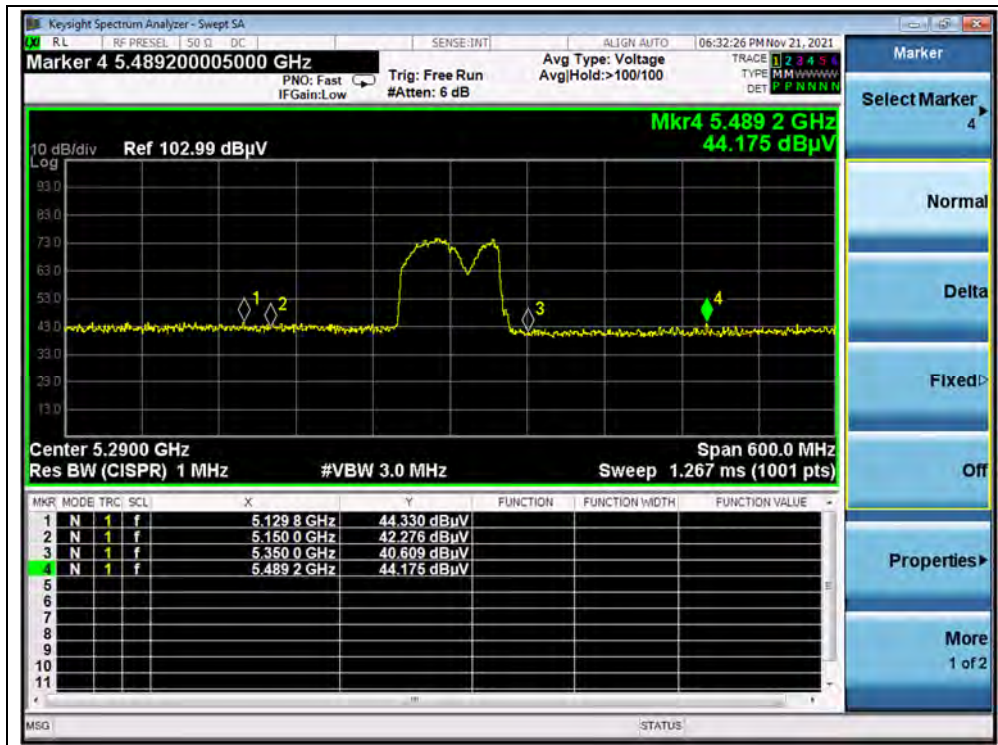
B.Test Plot:



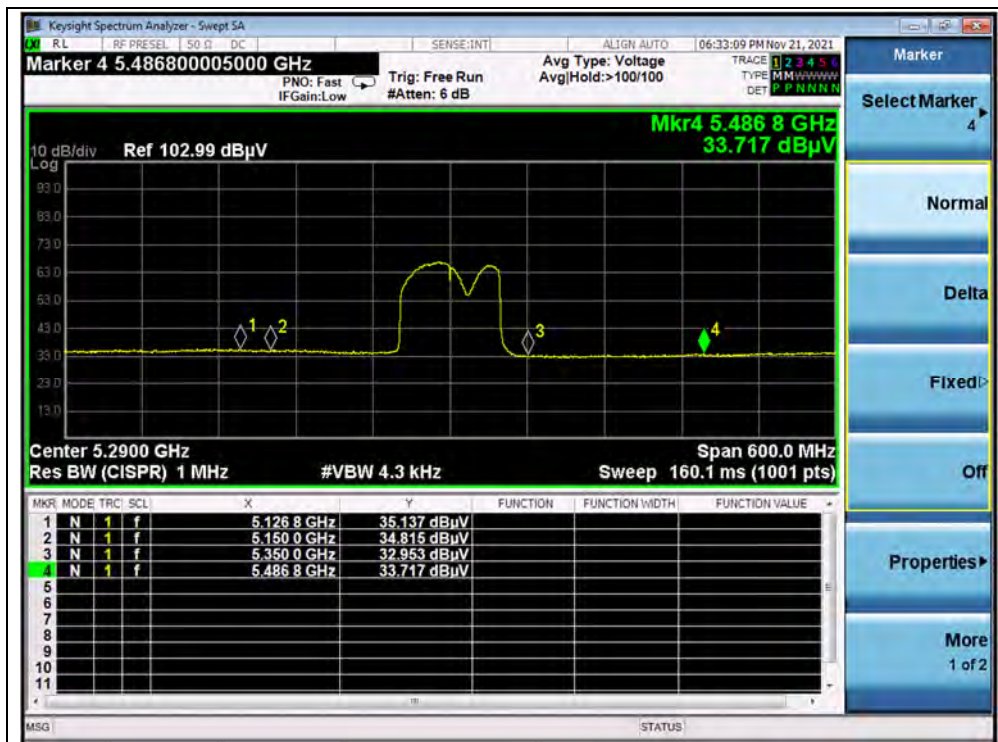
(PEAK, Channel 42, 802.11ac (VHT80))



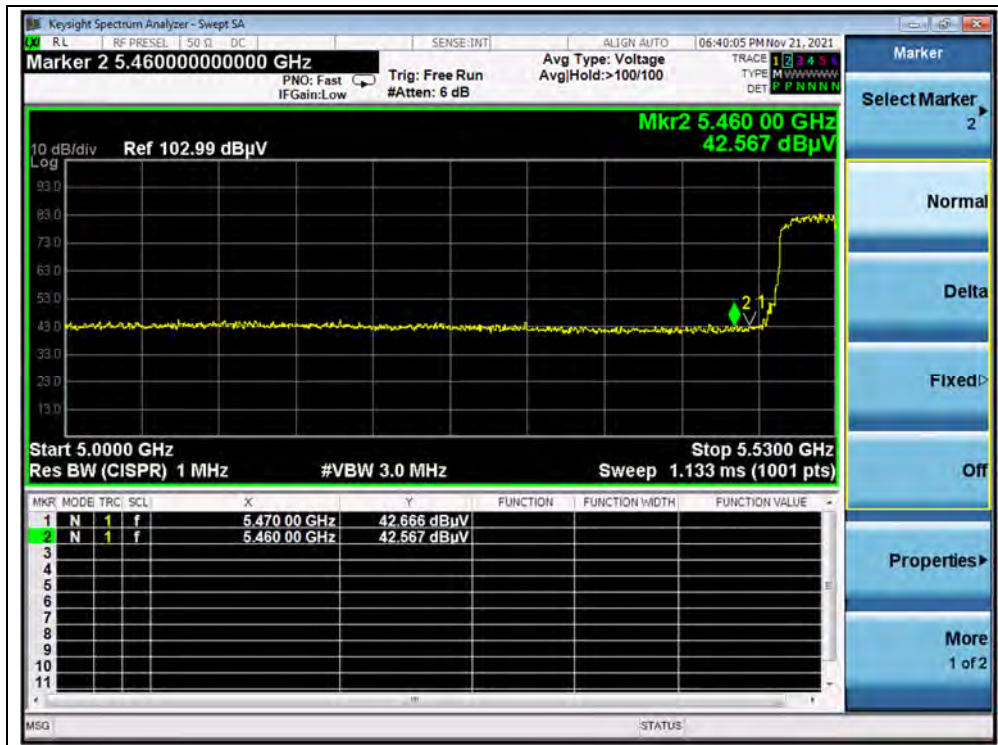
(AVERAGE, Channel 42, 802.11ac (VHT80))



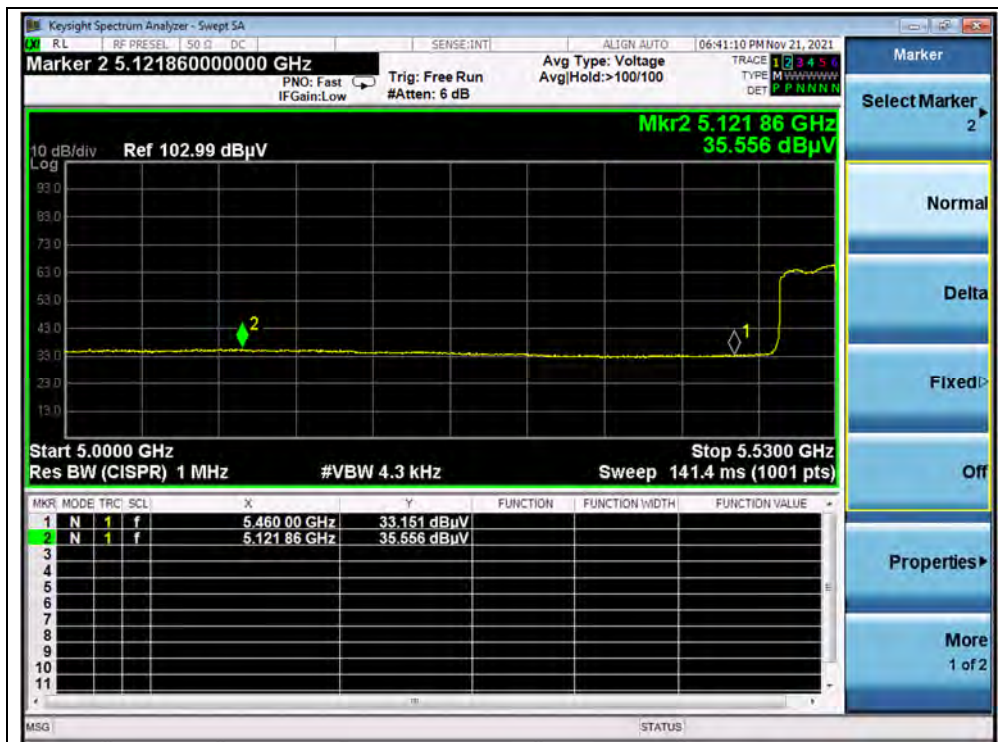
(PEAK, Channel 58, 802.11ac (VHT80))



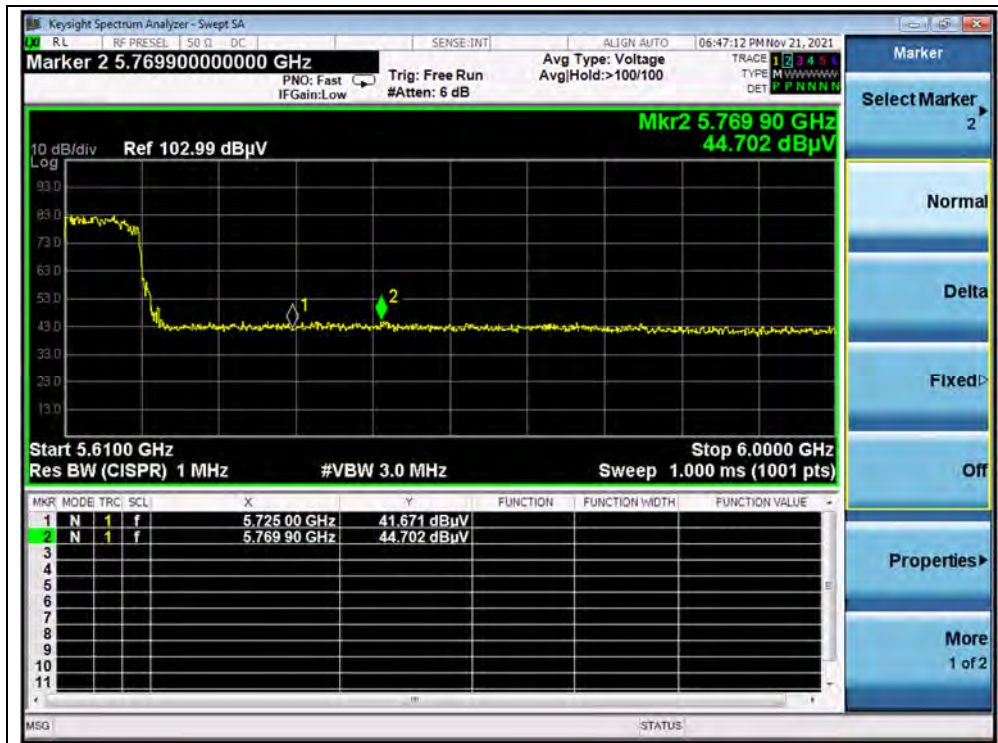
(AVERAGE, Channel 58, 802.11ac (VHT80))



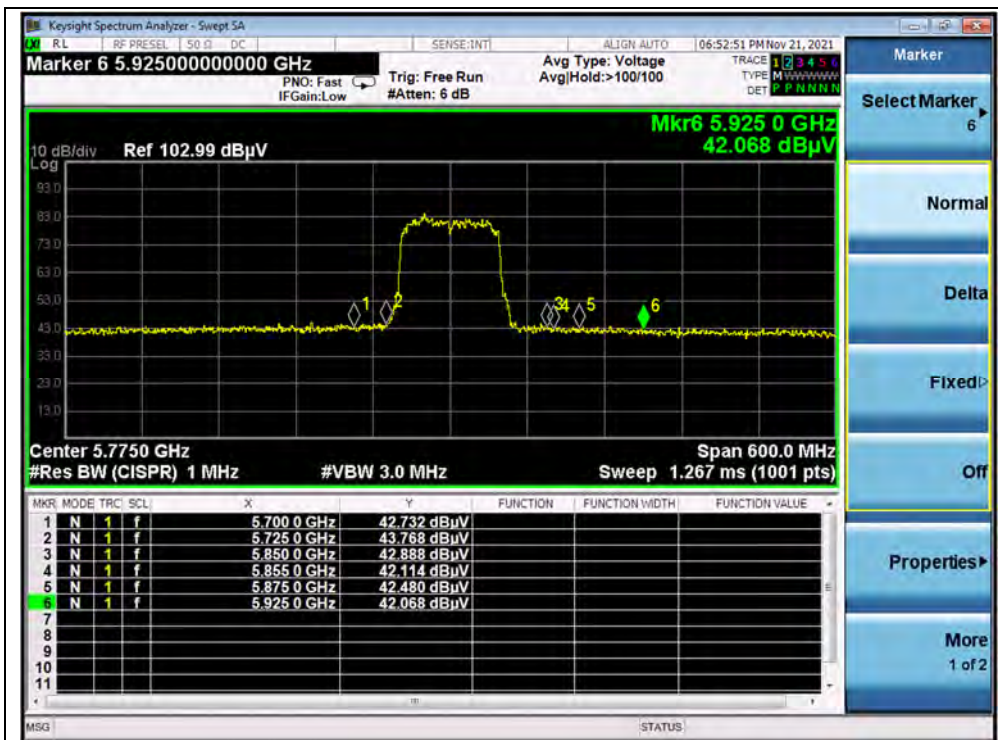
(PEAK, Channel 106, 802.11ac (VHT80))



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



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



(PEAK, Channel 155, 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(e.i.r.p.) 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:

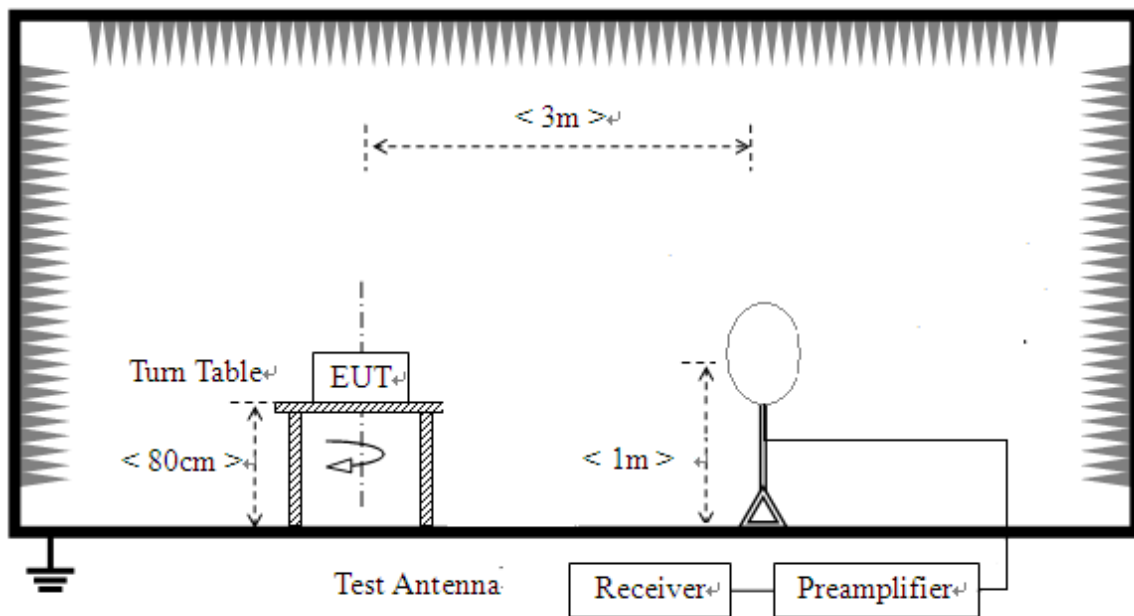
Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

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).

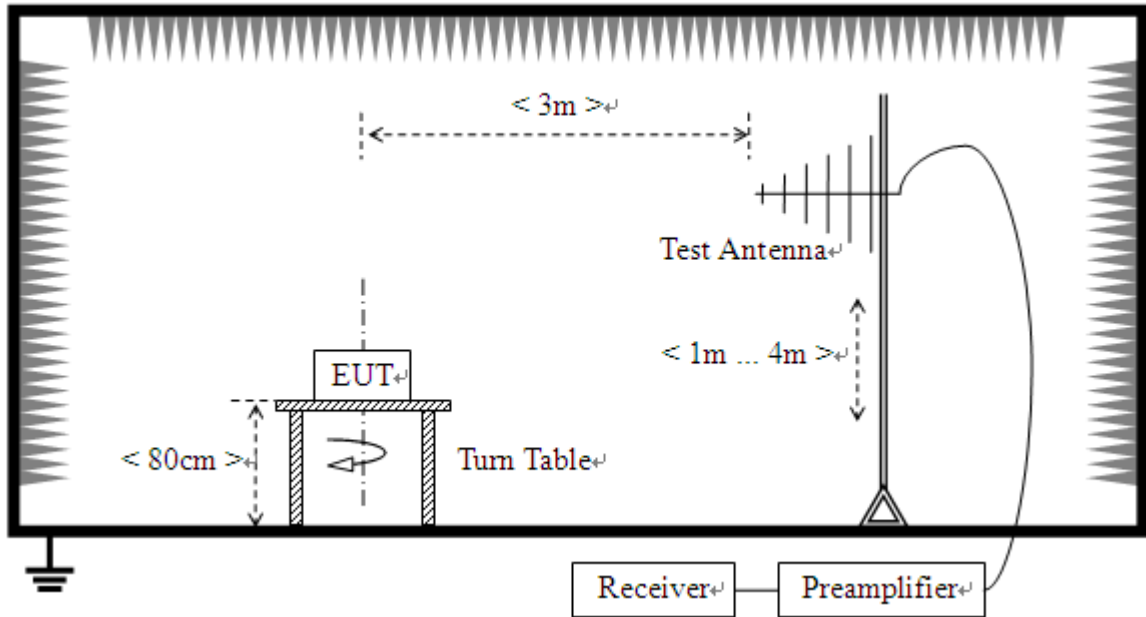
2.9.2. Test Description

Test Setup:

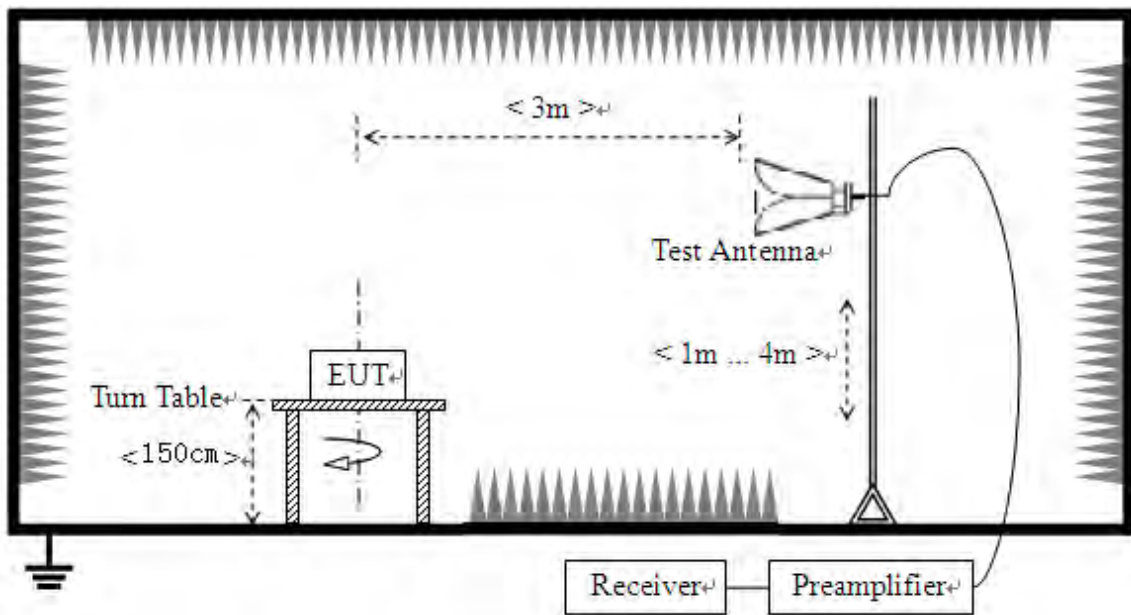
- 1) For radiated emissions from 9kHz to 30MHz



2) For radiated emissions from 30MHz to1GHz



3) For radiated emissions above 1GHz



The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.



For measurements below 30MHz, the emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9kHz-90 kHz, 110kHz-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

For measurements below 1GHz the resolution bandwidth is set to 100kHz for peak detection measurements or 120kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1GHz the resolution bandwidth is set to 1MHz, the video band width is set to 3MHz for peak measurements and as applicable for average measurements.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

2.9.3. Test Result

According to ANSI C63.10, 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 (or average) limit, it is unnecessary to perform an quasi-peak measurement (or average).

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.

Note 1: 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.

Note 2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

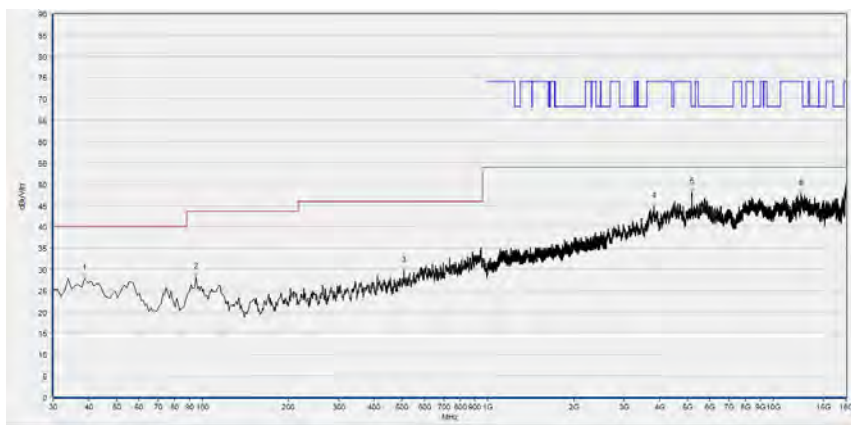
Note 3: For the frequency, which started from 18GHz to 40GHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

Note 4: All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.



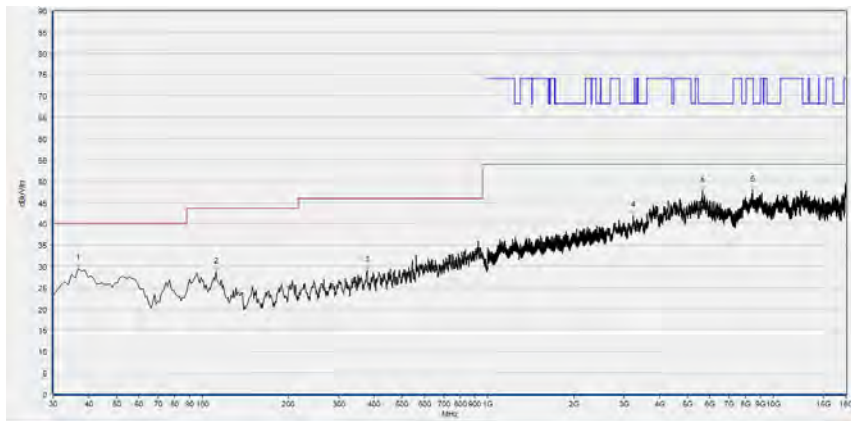
802.11a Mode

Plot 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
38.739	27.80	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
95.055	28.15	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
508.689	29.75	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
3813.763	44.80	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5184.637	48.08	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12507.261	47.71	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

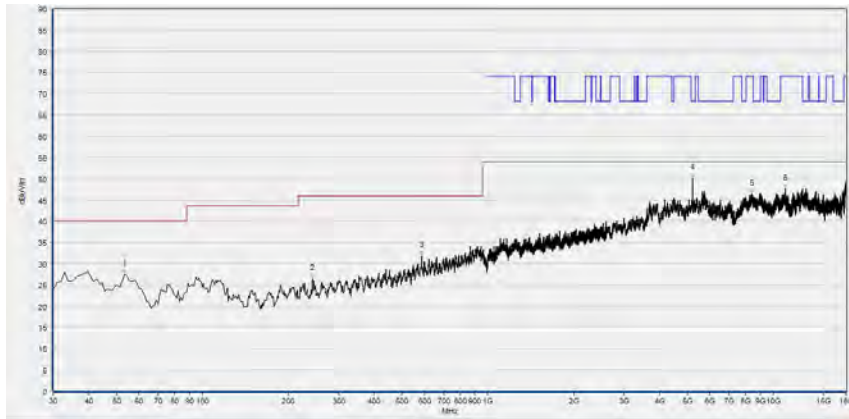
(Antenna Horizontal, 30MHz to 18GHz)



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
36.797	29.42	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
111.562	28.59	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
378.579	28.98	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
3237.688	41.90	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5646.729	47.82	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8443.929	47.88	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

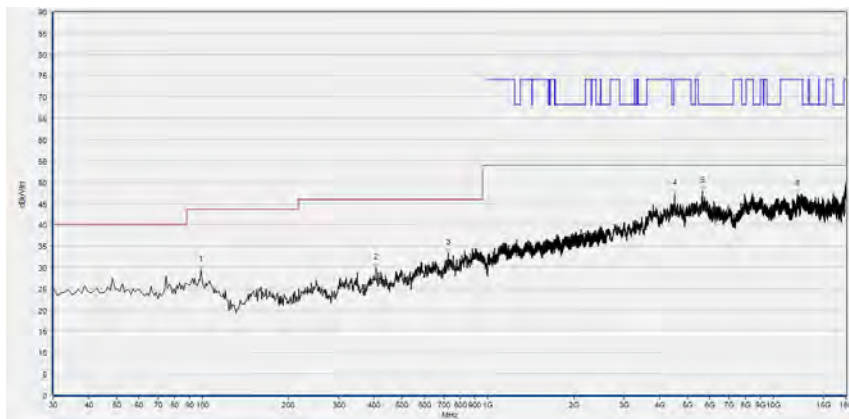
(Antenna Vertical, 30MHz to 18GHz)

Plot 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
53.303	27.54	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
242.643	26.41	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
585.395	31.91	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5218.524	50.18	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8422.364	46.39	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11007.001	47.57	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

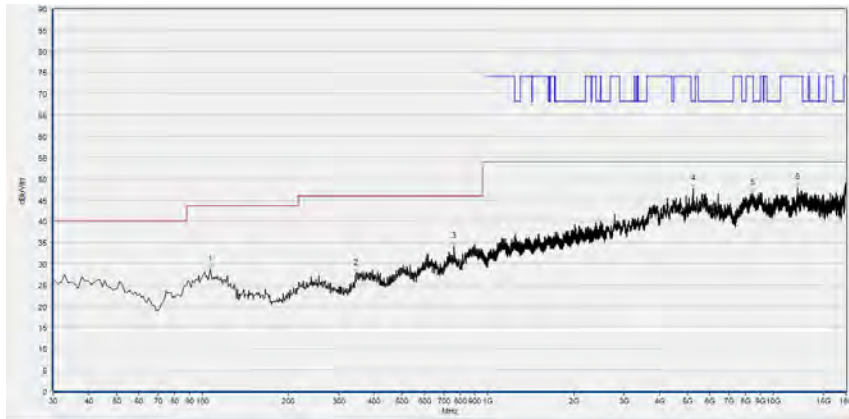
(Antenna Horizontal, 30MHz to 18GHz)



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
98.939	29.38	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
406.737	29.83	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
725.215	33.29	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
4503.821	47.22	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5649.810	47.92	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12159.152	47.10	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

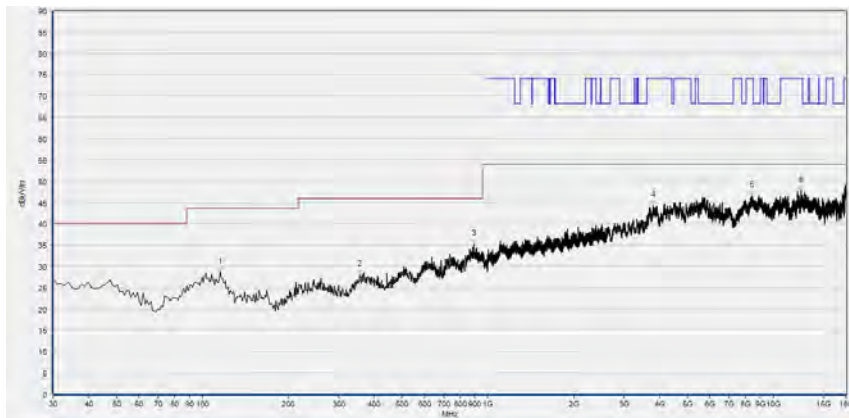
(Antenna Vertical, 30MHz to 18GHz)

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
106.707	28.70	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
345.566	27.60	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
762.112	34.03	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5233.927	47.57	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8447.009	46.64	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12162.232	47.89	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

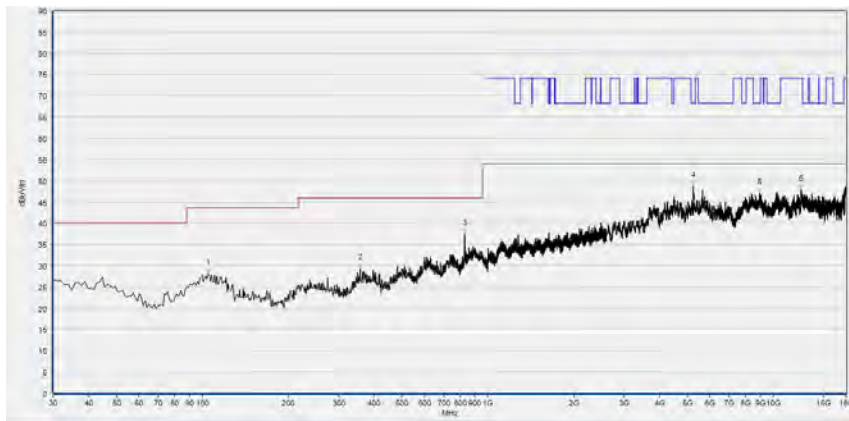
(Antenna Horizontal, 30MHz to 18GHz)



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
115.445	28.58	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
355.275	28.01	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
893.193	35.22	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
3795.279	44.21	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8388.478	46.55	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12510.342	47.75	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

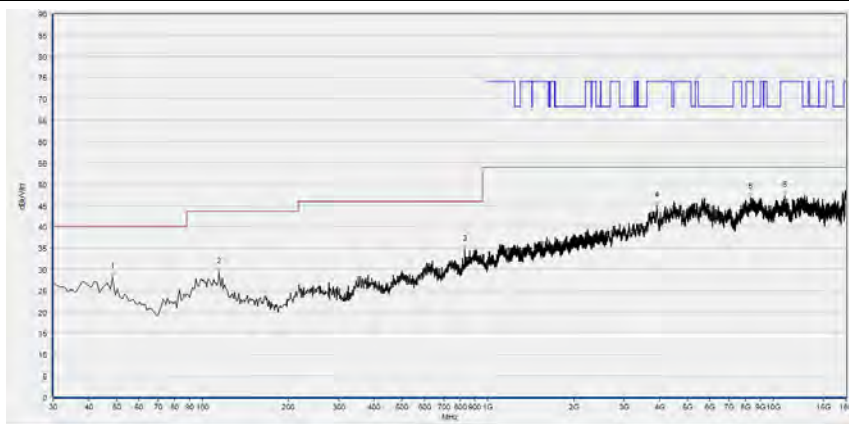
(Antenna Vertical, 30MHz to 18GHz)

Plot 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
104.765	28.17	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
357.217	29.31	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
827.167	37.50	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5252.410	48.85	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8967.634	47.09	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12531.906	47.96	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

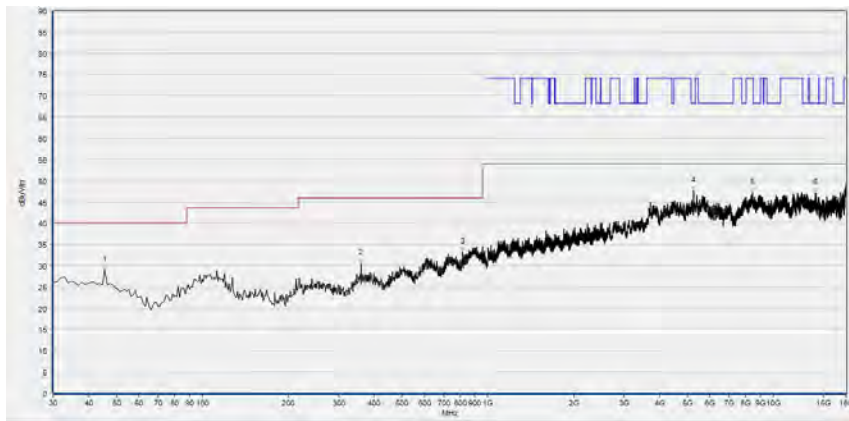
(Antenna Horizontal, 30MHz to 18GHz)



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
48.448	28.14	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
114.474	29.31	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
831.051	34.75	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
3909.262	44.90	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8308.382	46.89	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10994.679	47.30	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

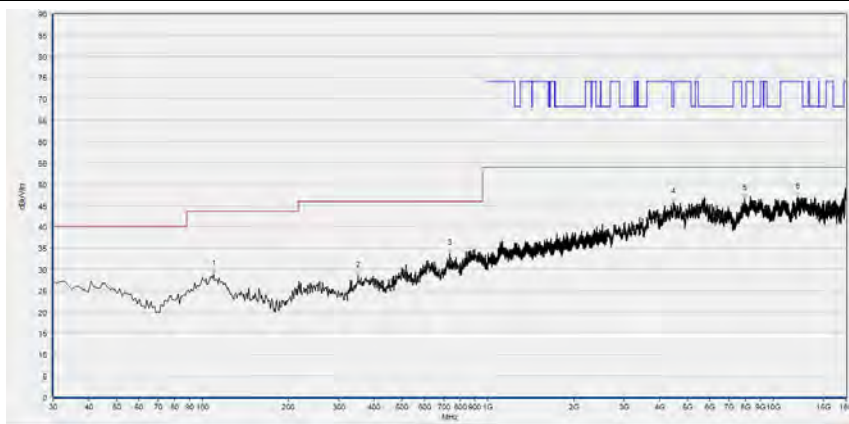
(Antenna Vertical, 30MHz to 18GHz)

Plot 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
45.536	28.93	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
360.130	30.45	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
816.486	33.18	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5255.491	47.53	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8465.493	47.08	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14084.537	47.12	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

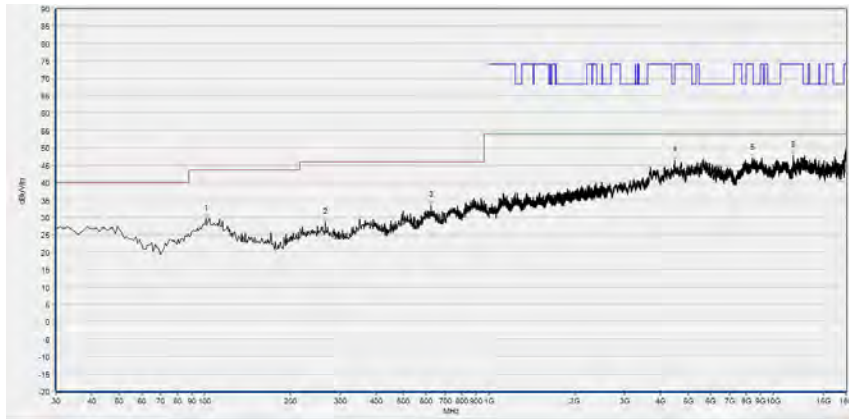
(Antenna Horizontal, 30MHz to 18GHz)



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
109.620	28.91	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
351.391	28.51	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
735.896	33.75	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
4473.015	45.70	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
7944.869	46.56	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12146.829	46.98	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

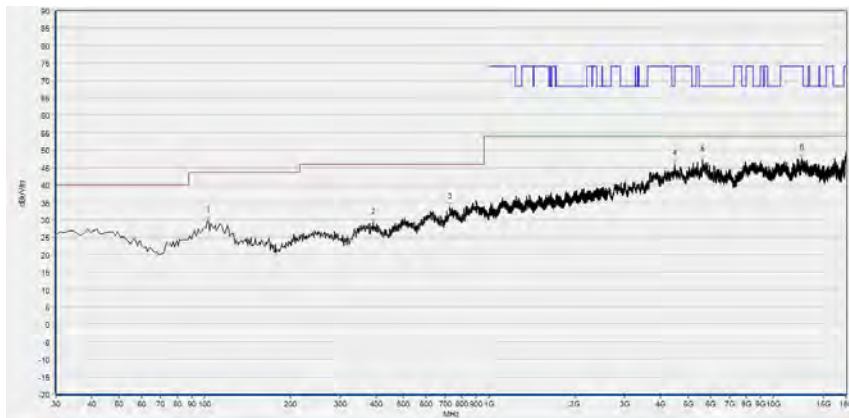
(Antenna Vertical, 30MHz to 18GHz)

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
100.881	29.56	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
264.975	28.46	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
625.205	33.48	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
4482.256	46.28	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8453.171	47.07	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11746.349	47.70	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

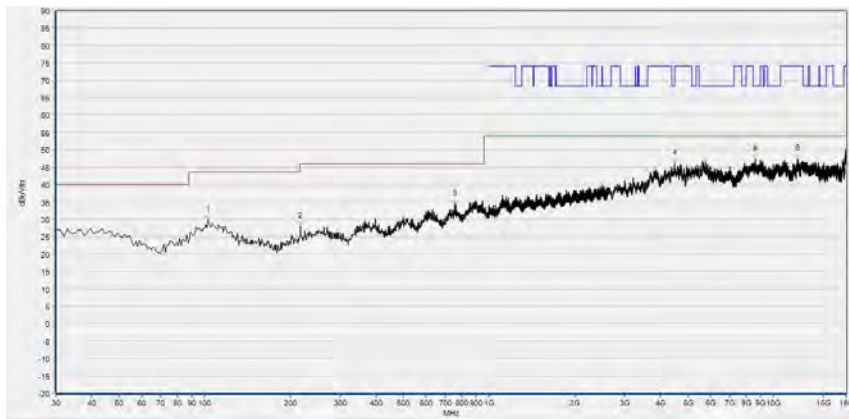
(Antenna Horizontal, 30MHz to 18GHz)



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
102.823	29.71	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
391.201	29.10	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
727.157	33.60	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
4500.740	46.03	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5637.487	47.19	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12581.196	47.68	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

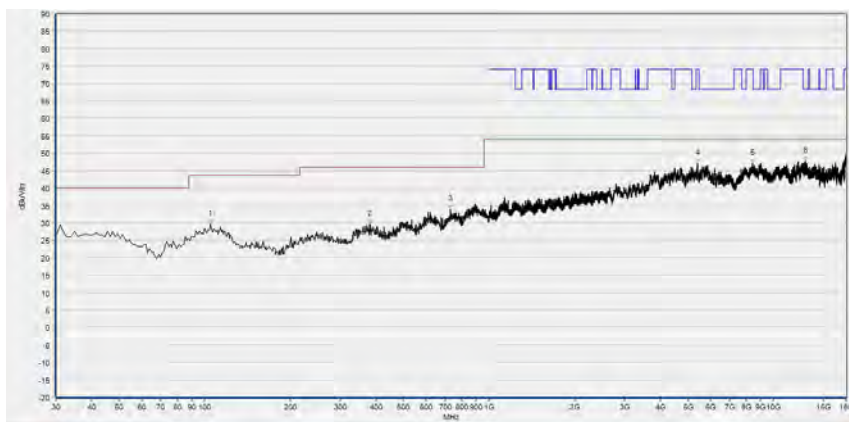
(Antenna Vertical, 30MHz to 18GHz)

Plot 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
102.823	29.72	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
217.397	27.84	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
757.257	34.21	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
4479.176	45.98	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8638.008	47.18	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12156.071	47.31	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

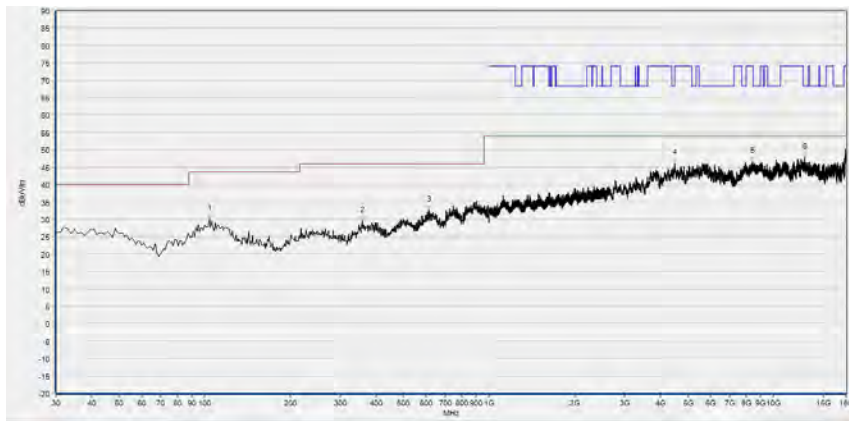
(Antenna Horizontal, 30MHz to 18GHz)



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
104.765	29.50	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
379.550	29.57	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
731.041	33.89	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5400.280	46.90	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8450.090	47.04	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12920.064	47.60	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

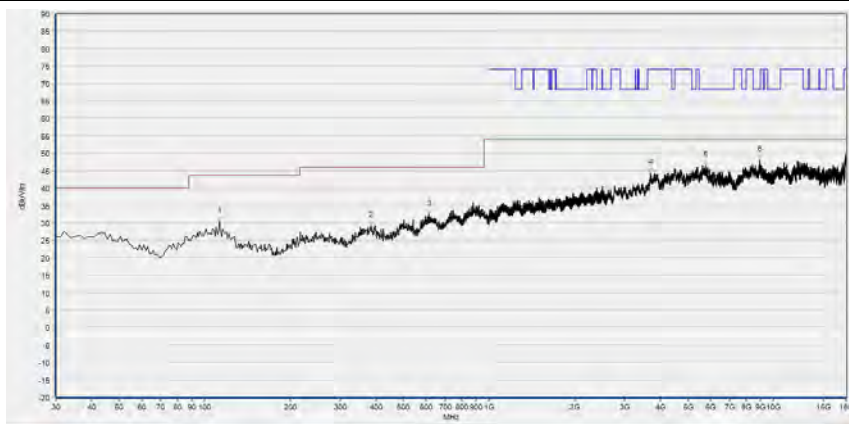
(Antenna Vertical, 30MHz to 18GHz)

Plot 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
103.794	30.02	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
358.188	29.62	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
614.525	32.67	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
4497.660	46.16	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8443.929	46.59	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12889.258	47.80	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

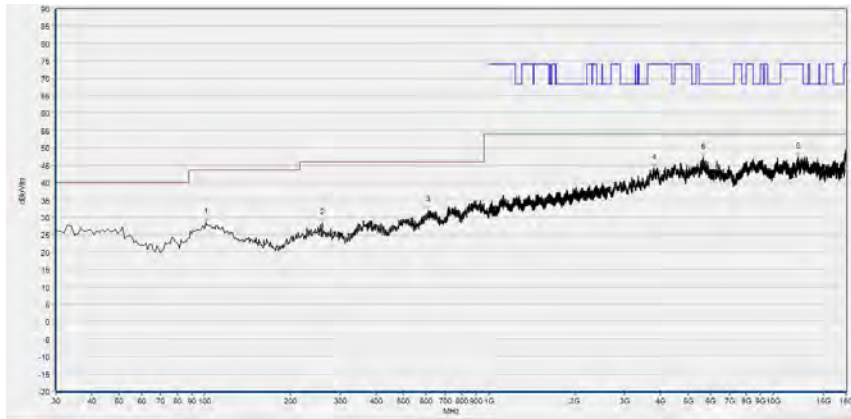
(Antenna Horizontal, 30MHz to 18GHz)



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
112.533	30.34	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
385.375	29.07	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
612.583	32.38	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
3693.619	44.34	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5766.873	46.35	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8921.424	48.06	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

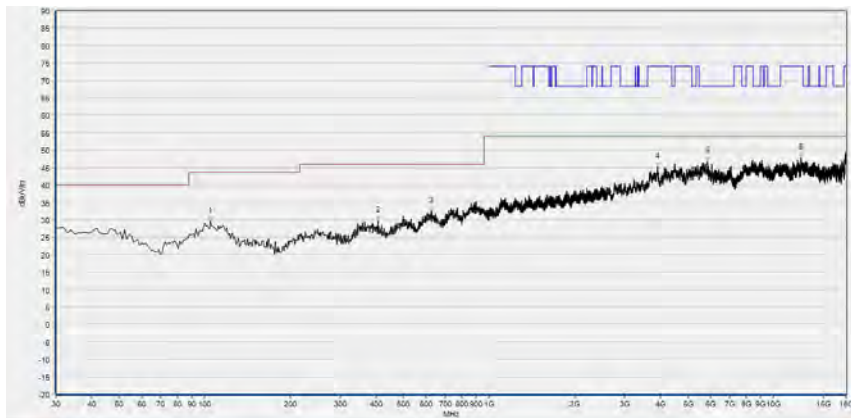
(Antenna Vertical, 30MHz to 18GHz)

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
100.881	28.56	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
259.149	28.36	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
611.612	31.94	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
3798.360	44.04	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5652.891	47.10	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12202.280	47.33	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

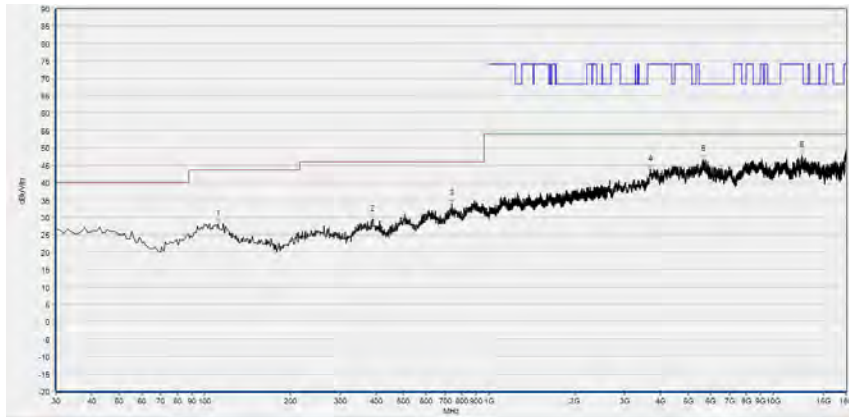
(Antenna Horizontal, 30MHz to 18GHz)



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
104.765	29.62	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
406.737	29.87	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
623.263	32.48	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
3903.101	45.12	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5859.292	46.74	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12531.906	47.74	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

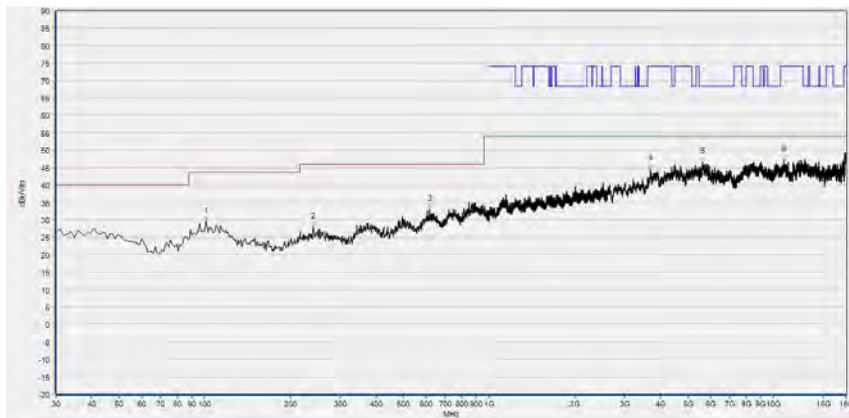
(Antenna Vertical, 30MHz to 18GHz)

Plot 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
111.562	28.04	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
388.288	29.32	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
738.809	33.85	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
3681.296	43.72	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5646.729	46.54	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12612.002	47.71	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

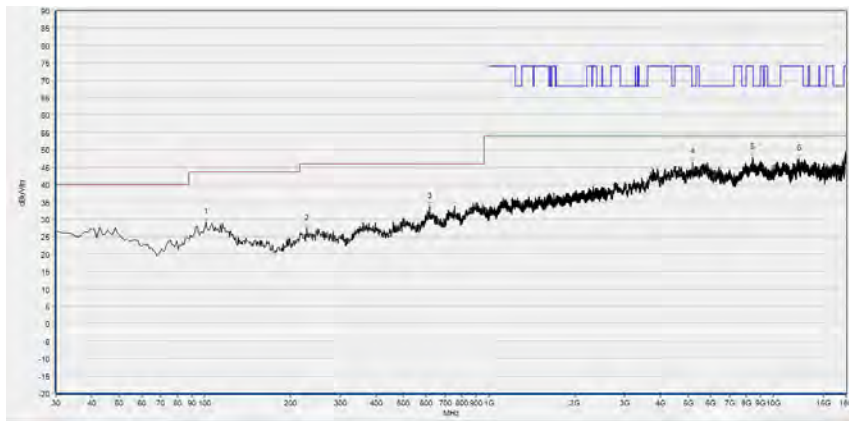
(Antenna Horizontal, 30MHz to 18GHz)



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
100.881	29.63	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
240.701	28.03	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
617.437	33.03	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
3693.619	44.48	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5643.649	46.52	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
10908.422	47.19	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

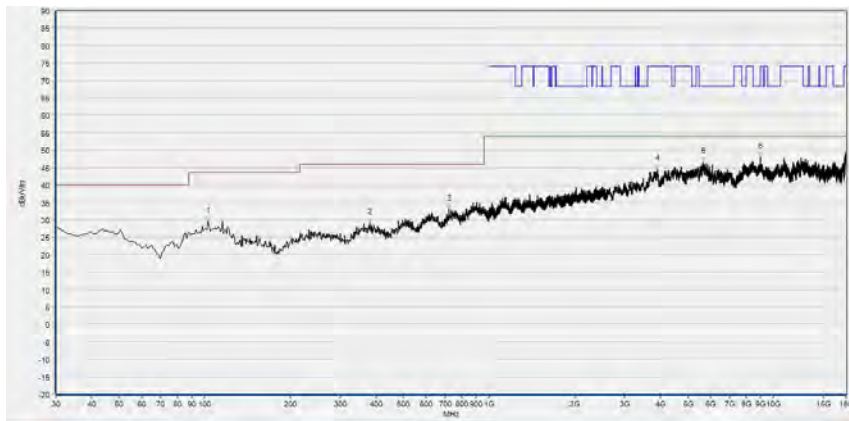
(Antenna Vertical, 30MHz to 18GHz)

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
100.881	29.16	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
229.049	27.40	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
619.379	33.67	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5200.040	46.29	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8443.929	47.76	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12285.457	47.47	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

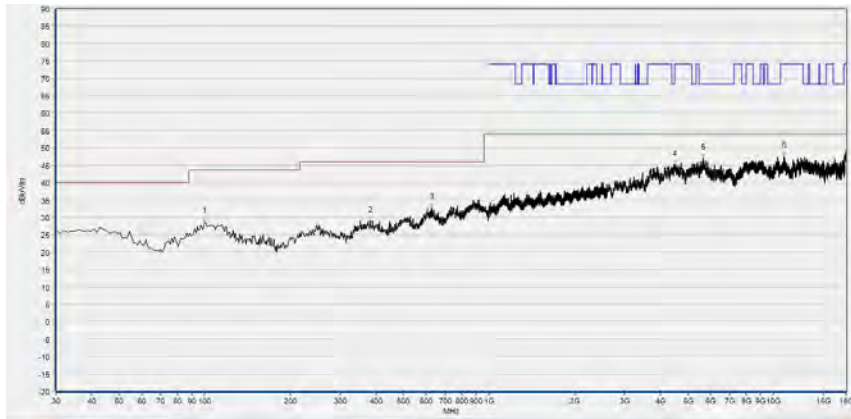
(Antenna Horizontal, 30MHz to 18GHz)



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
102.823	29.66	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
380.521	29.19	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
723.273	33.02	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
3903.101	44.47	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5649.810	46.48	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8973.795	47.92	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

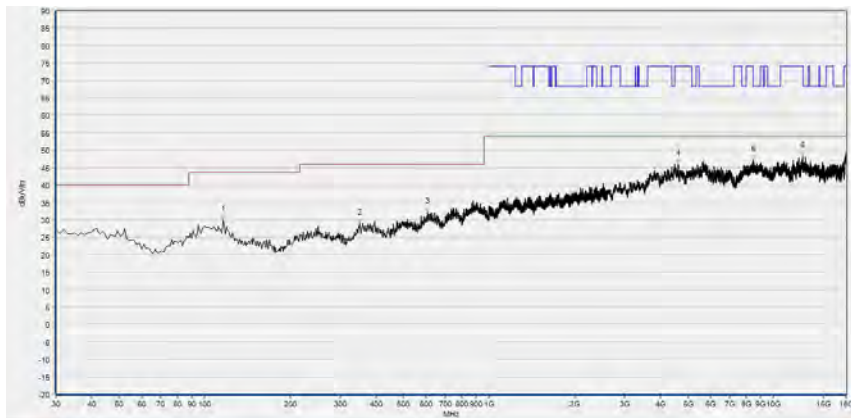
(Antenna Vertical, 30MHz to 18GHz)

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
99.910	28.68	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
381.491	29.05	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
630.060	32.91	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
4485.337	45.23	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5652.891	46.88	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10859.132	47.58	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

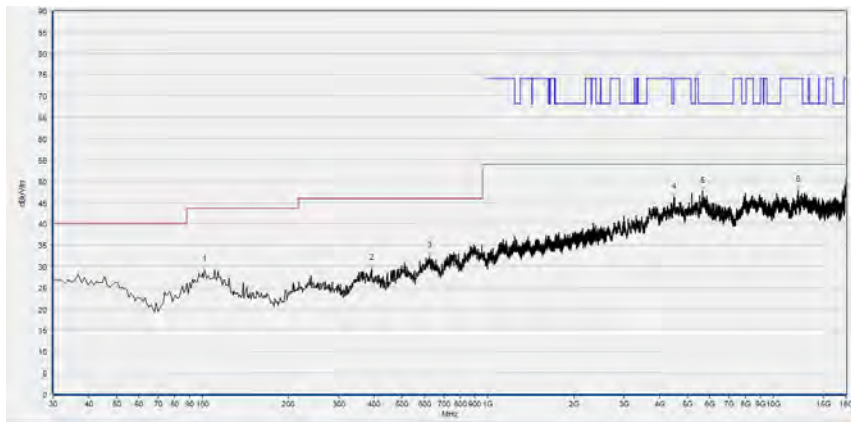


Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
116.416	29.89	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
351.391	28.86	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
606.757	32.22	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
4623.965	45.90	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8468.574	47.15	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12682.857	48.14	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

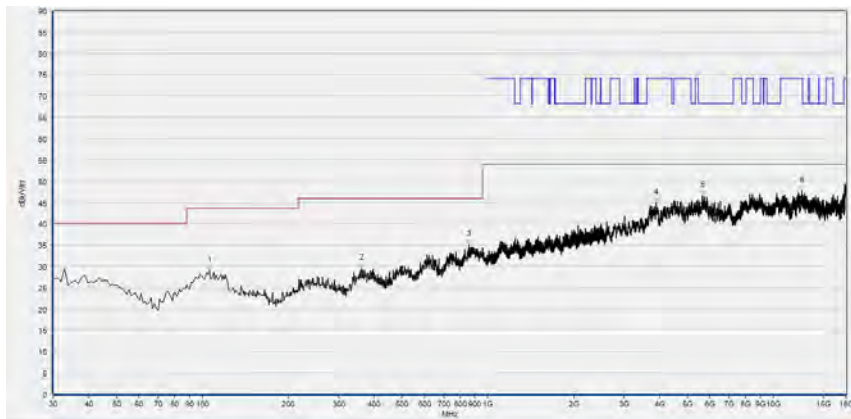
802.11n (HT40) mode

Plot 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
101.852	29.09	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
392.172	29.51	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
624.234	32.30	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
4488.418	46.30	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5652.891	47.54	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12205.361	47.92	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

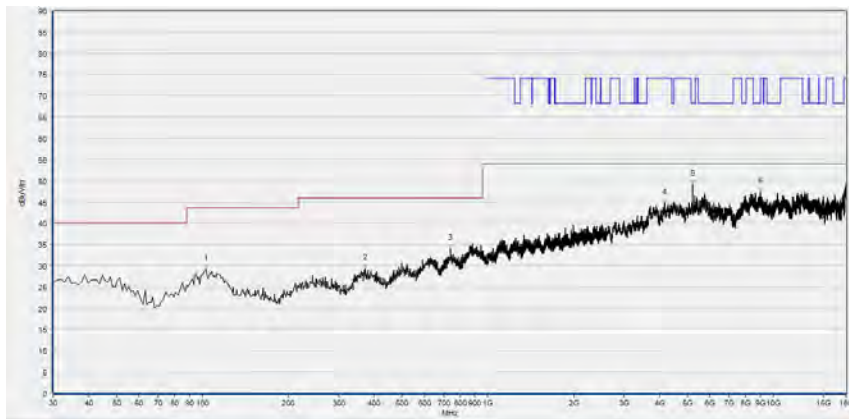
(Antenna Horizontal, 30MHz to 18GHz)



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
105.736	29.03	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
362.072	29.46	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
859.209	35.03	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
3893.859	44.99	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5640.568	46.60	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12612.002	47.73	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

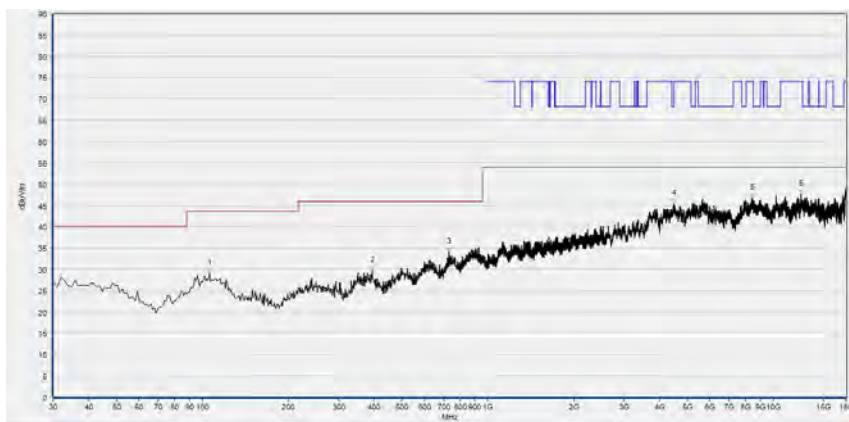
(Antenna Vertical, 30MHz to 18GHz)

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
102.823	29.15	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
371.782	29.29	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
740.751	34.08	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
4164.953	44.83	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5215.443	49.09	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
9001.520	47.41	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

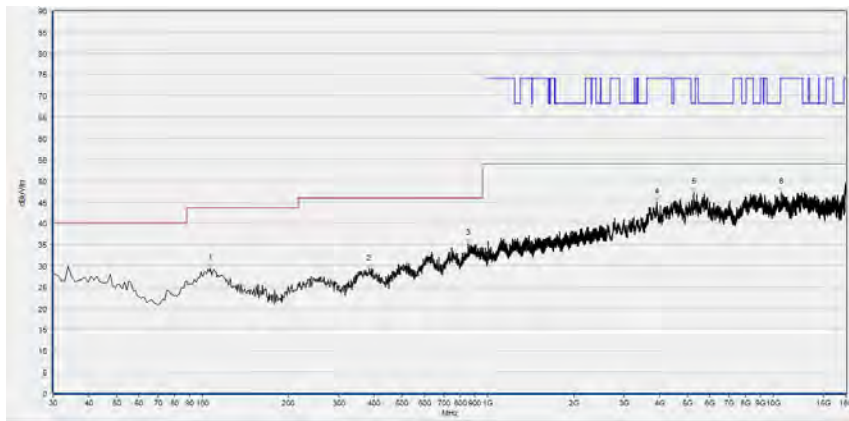
(Antenna Horizontal, 30MHz to 18GHz)



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
105.736	28.96	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
394.114	29.64	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
730.070	34.06	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
4482.256	45.41	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8450.090	46.74	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12501.100	47.53	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

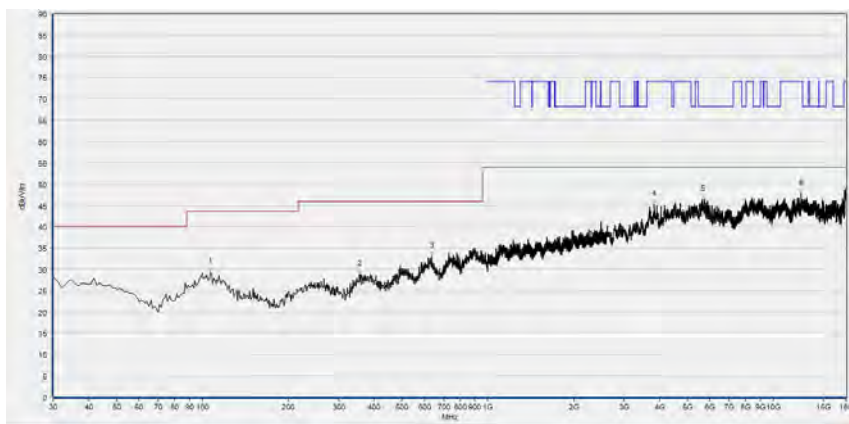
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 54



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
106.707	29.33	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
383.433	29.18	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
854.354	35.13	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
3918.504	44.88	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5261.652	47.32	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10677.375	47.21	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

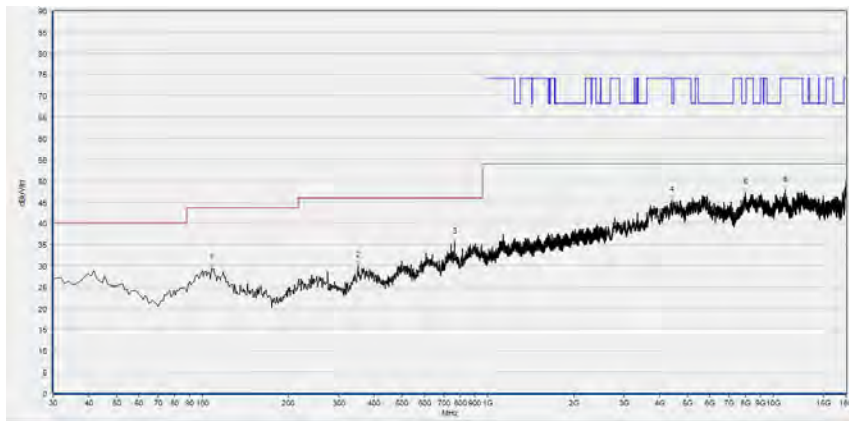
(Antenna Horizontal, 30MHz to 18GHz)



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
106.707	29.28	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
355.275	28.81	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
635.886	33.06	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
3829.166	45.22	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5649.810	46.37	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12522.665	47.83	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

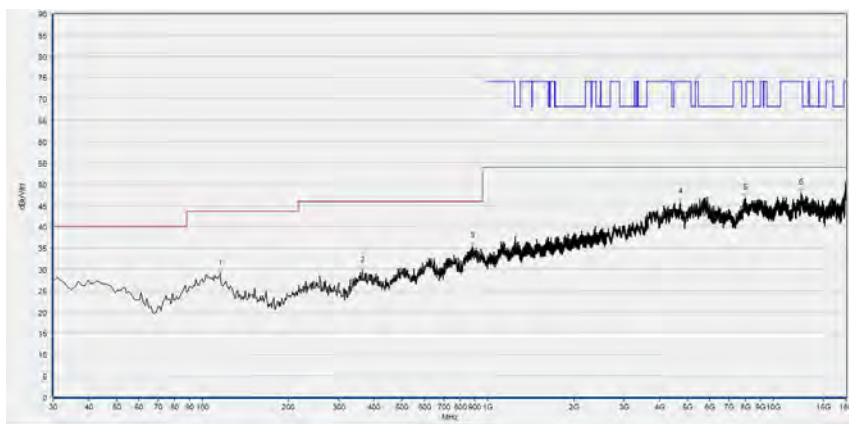
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 62



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
107.678	29.51	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
350.420	29.97	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
763.083	35.48	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
4402.160	45.37	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
7978.756	47.16	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11028.566	47.69	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

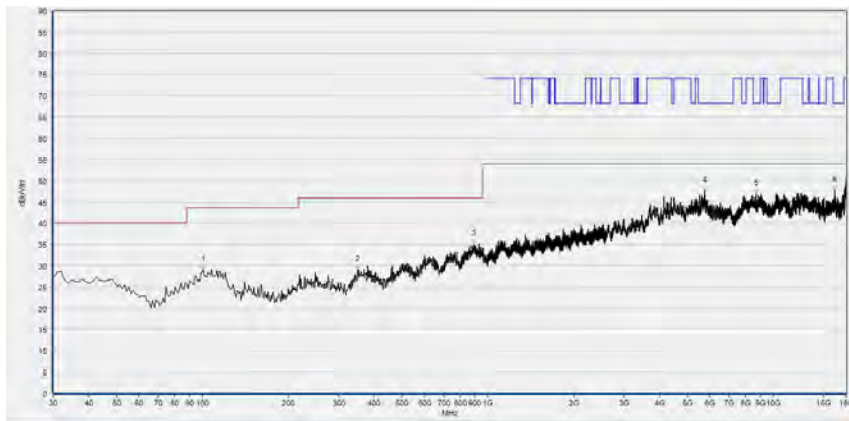
(Antenna Horizontal, 30MHz to 18GHz)



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
115.445	28.97	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
363.043	29.73	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
882.513	35.30	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
4725.625	45.74	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7991.078	46.76	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12485.697	47.87	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

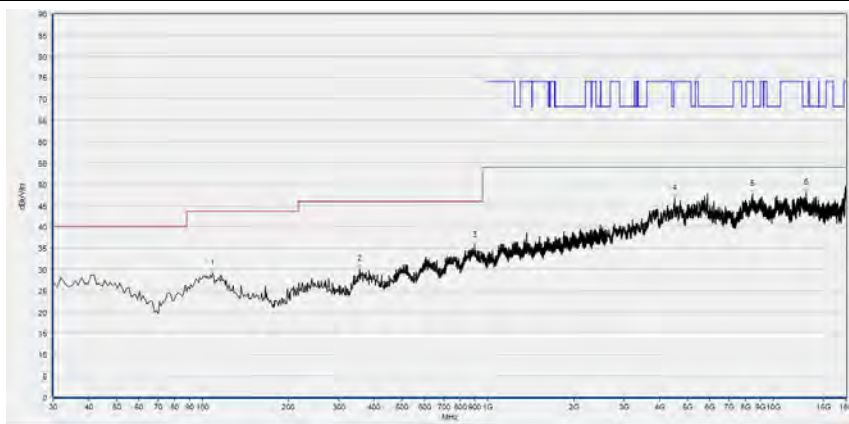
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 102



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
100.881	28.93	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
349.449	28.98	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
892.222	35.03	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5748.390	47.62	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8727.345	46.98	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
16416.563	47.72	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

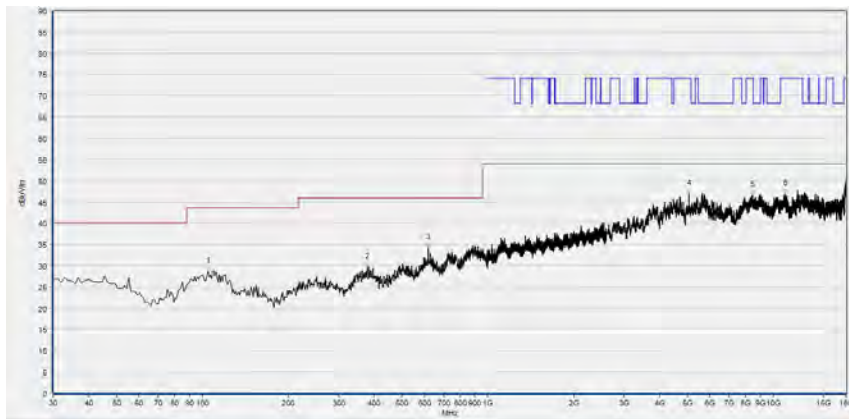
(Antenna Horizontal, 30MHz to 18GHz)



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
108.649	29.03	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
355.275	29.99	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
899.990	35.50	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
4506.901	46.65	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8477.816	47.56	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
13071.014	47.91	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

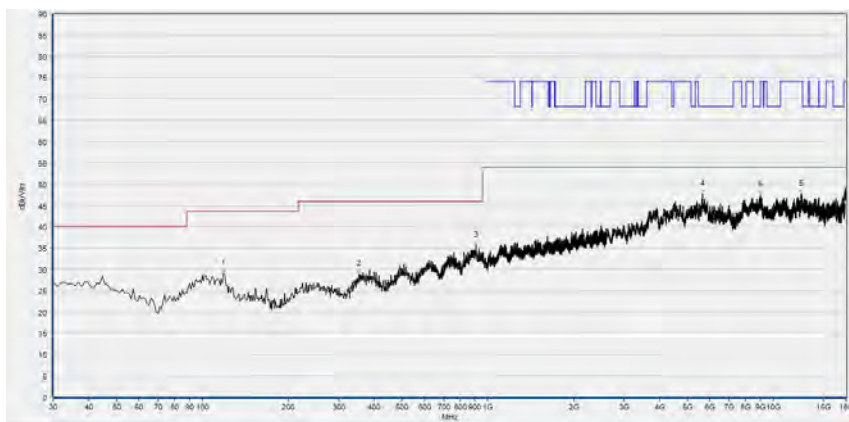
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 126



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
104.765	28.61	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
378.579	29.69	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
619.379	34.19	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5067.574	46.98	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8453.171	46.64	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11000.840	46.86	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

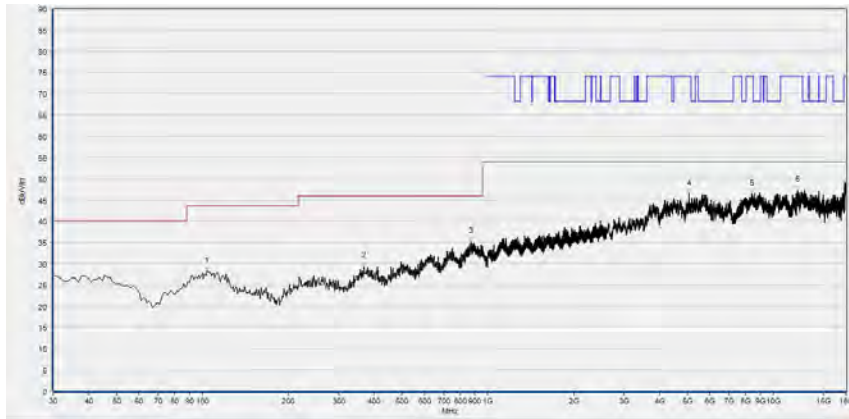
(Antenna Horizontal, 30MHz to 18GHz)



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
118.358	28.98	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
354.304	28.89	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
907.758	35.58	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5643.649	47.58	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8989.198	47.40	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12519.584	47.61	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

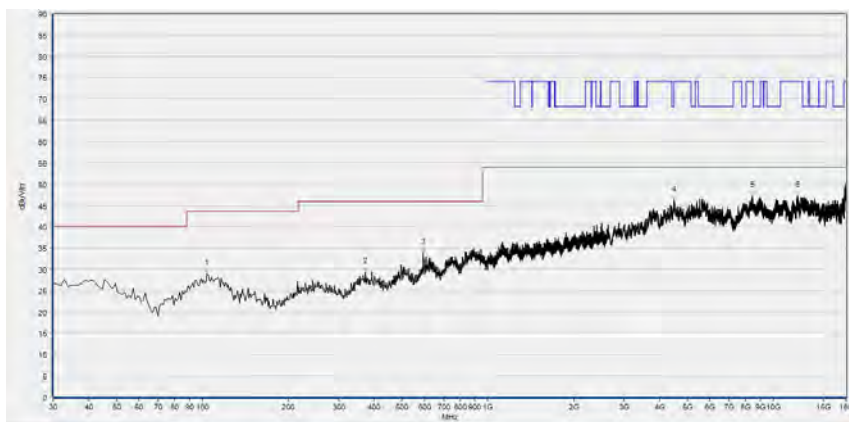
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 142



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
103.794	28.16	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
368.869	29.34	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
875.716	35.23	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5079.896	46.34	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8391.558	46.45	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12165.313	47.24	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

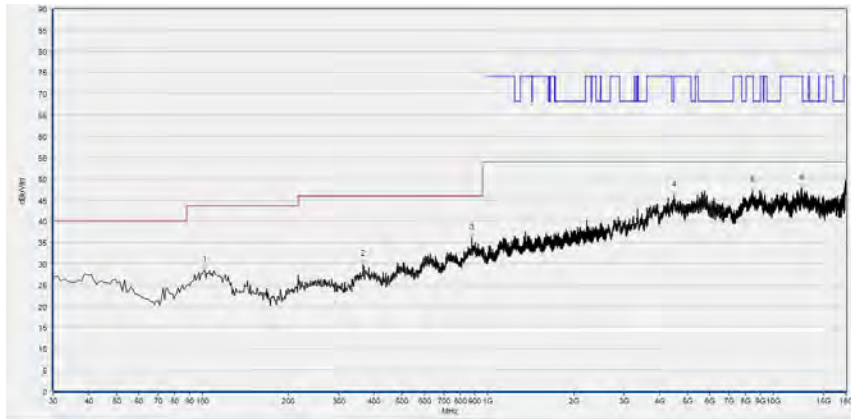
(Antenna Horizontal, 30MHz to 18GHz)



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
103.794	28.92	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
371.782	29.37	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
592.192	33.79	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
4491.498	46.34	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8437.768	47.30	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12165.313	47.27	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

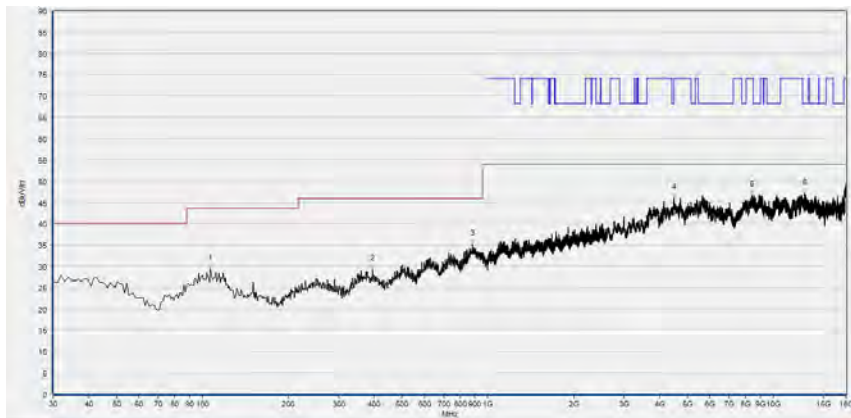
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 151



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
101.852	28.42	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
365.956	29.79	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
880.571	36.01	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
4497.660	46.05	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8447.009	47.02	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12593.519	47.80	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

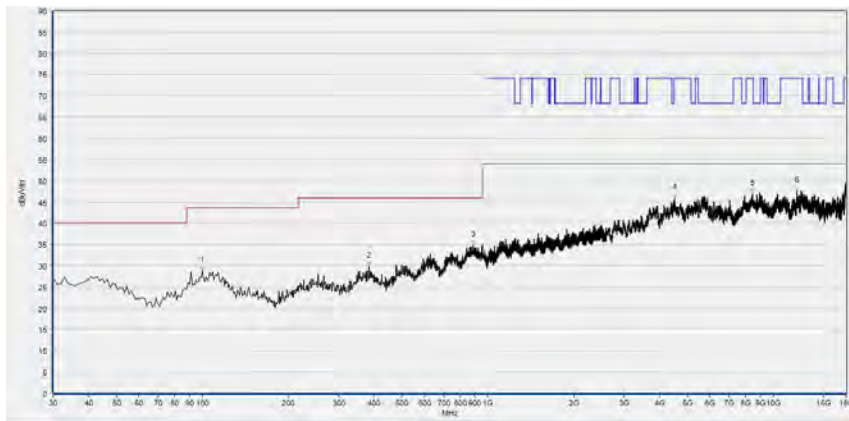
(Antenna Horizontal, 30MHz to 18GHz)



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
106.707	29.43	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
395.085	29.30	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
881.542	35.17	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
4476.095	46.12	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8431.606	46.82	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12892.338	47.04	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

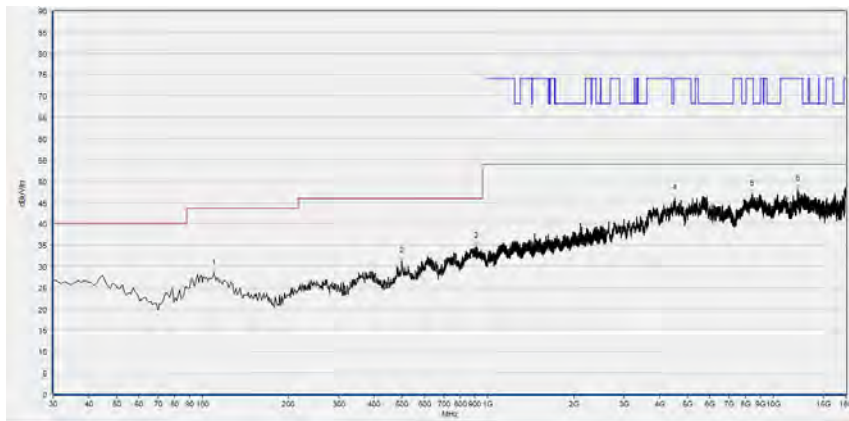
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 159



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
99.910	28.80	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
383.433	29.84	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
887.367	34.94	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
4525.385	45.93	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8440.848	46.91	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12116.023	47.59	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



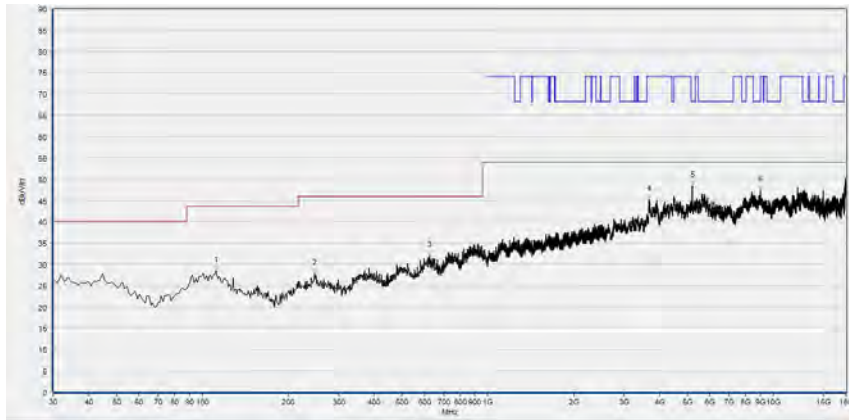
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
109.620	28.25	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
498.979	31.15	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
911.642	34.63	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
4513.063	45.84	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8425.445	46.88	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12149.910	48.14	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)



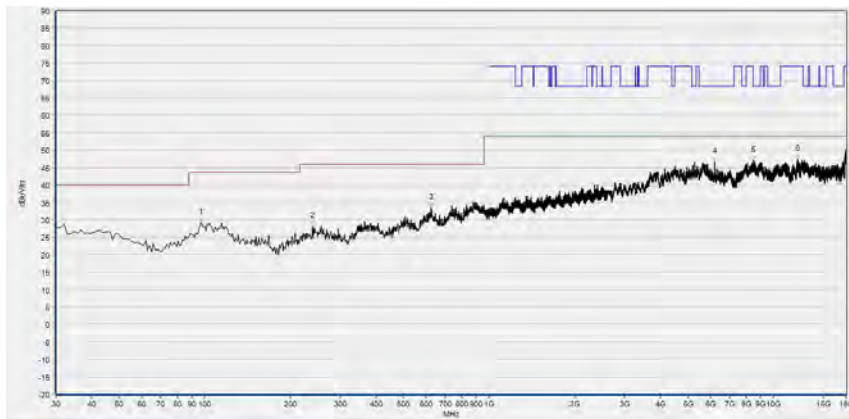
802.11ac (VHT80) Mode

Plot for Channel 42



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
111.562	28.46	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
247.497	27.85	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
624.234	32.03	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
3668.974	45.30	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5203.121	48.44	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
9035.407	47.38	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

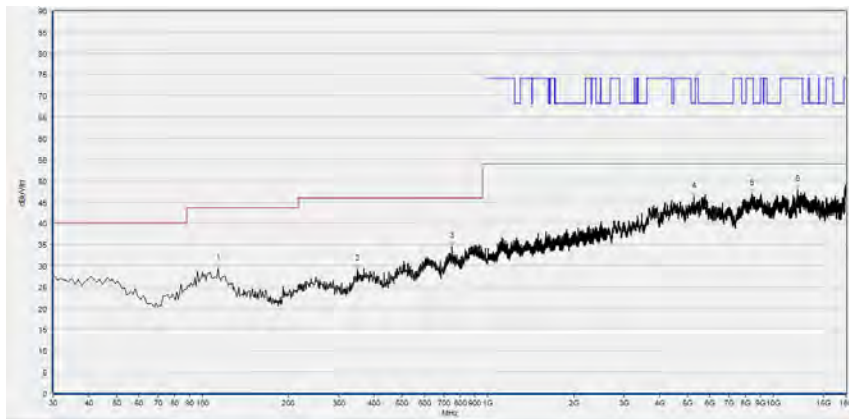
(Antenna Horizontal, 30MHz to 18GHz)



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
96.997	29.18	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
238.759	28.09	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
624.234	33.53	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
6198.160	46.57	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8462.412	46.92	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12177.636	47.34	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

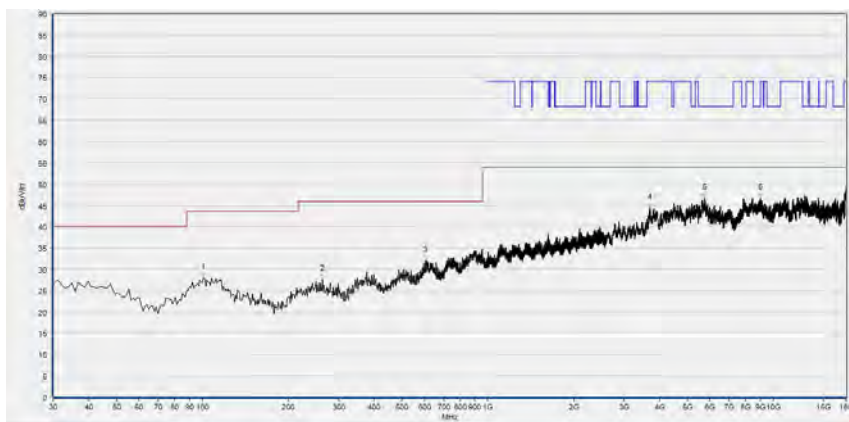
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 58



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
113.504	29.57	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
348.478	29.18	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
749.489	34.53	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5273.975	46.29	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8391.558	46.99	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12134.507	47.99	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

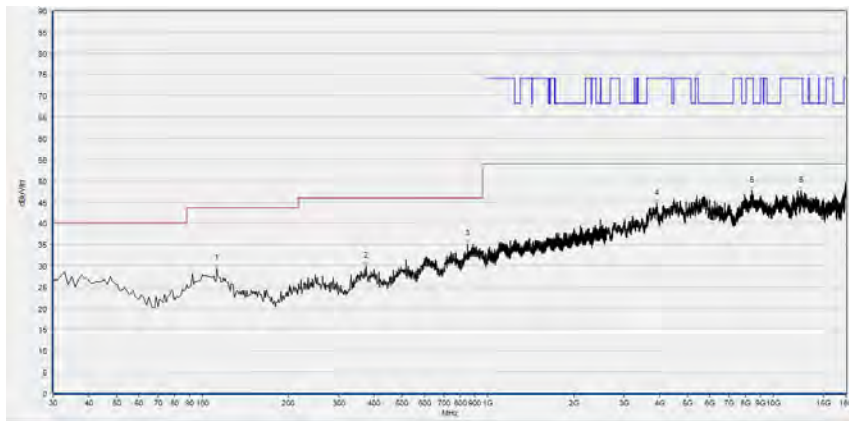
(Antenna Horizontal, 30MHz to 18GHz)



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
100.881	28.07	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
264.004	27.68	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
603.844	31.94	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
3696.699	44.35	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5751.470	46.77	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
9035.407	46.75	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

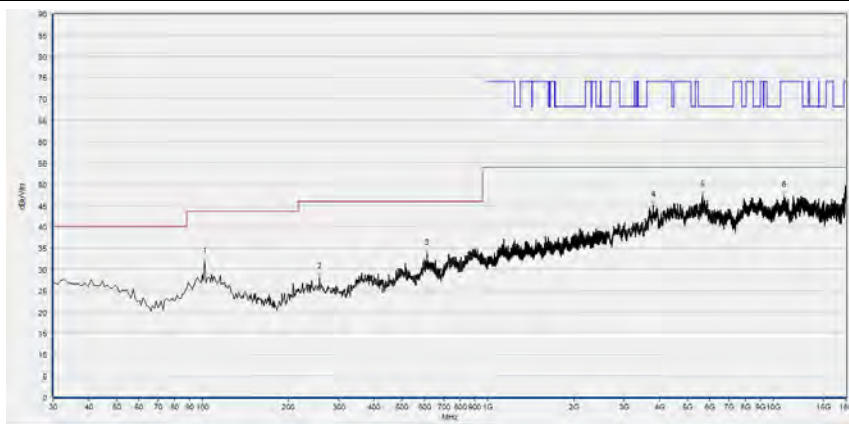
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 106



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
112.533	29.26	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
374.695	29.86	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
849.499	35.06	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
3909.262	44.59	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8416.203	47.62	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12513.423	47.54	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

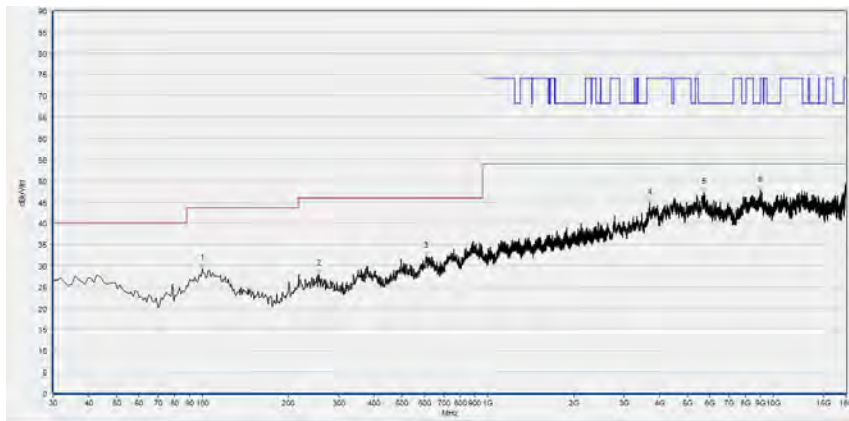
(Antenna Horizontal, 30MHz to 18GHz)



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
101.852	31.79	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
257.207	28.19	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
612.583	33.69	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
3792.198	45.16	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5652.891	47.35	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
10905.341	47.33	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

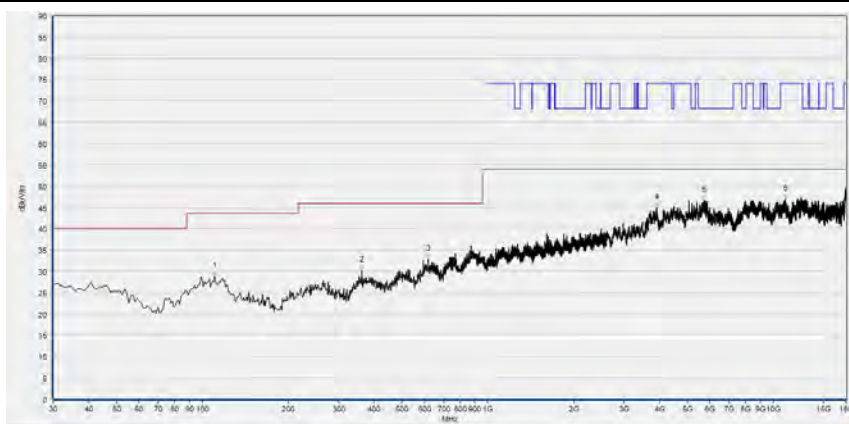
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 122



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
99.910	29.35	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
256.236	27.94	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
606.757	32.15	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
3690.538	44.79	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5732.987	47.21	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8995.359	47.74	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

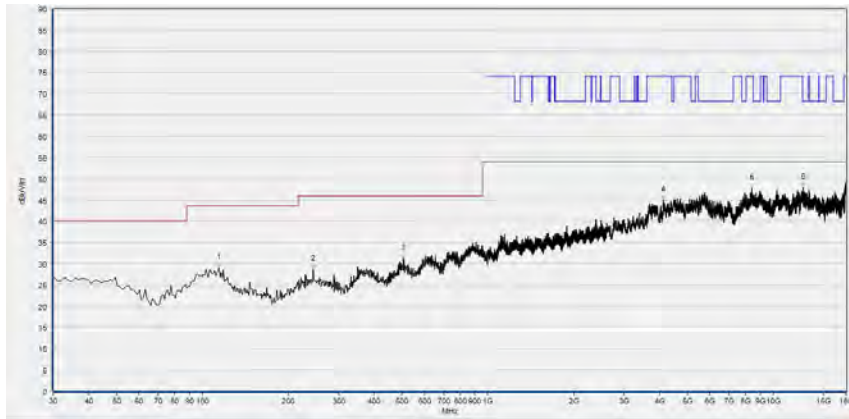
(Antenna Horizontal, 30MHz to 18GHz)



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
110.591	28.77	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
362.072	30.20	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
618.408	32.80	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
3900.020	44.90	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5720.664	46.59	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
10997.760	46.88	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

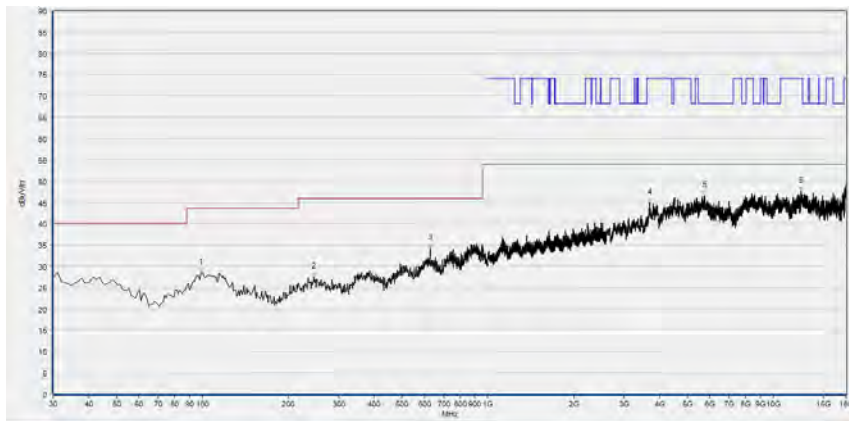
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 138



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
114.474	28.94	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
244.585	28.62	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
505.776	31.17	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
4124.905	44.86	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8413.123	47.76	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12729.066	47.97	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

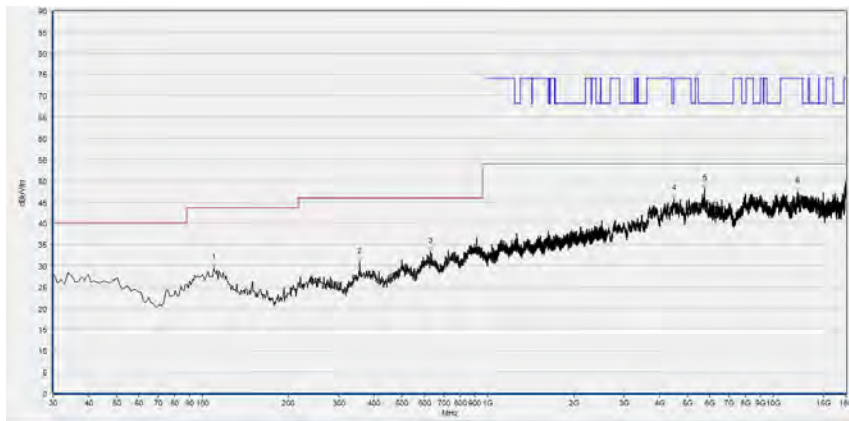
(Antenna Horizontal, 30MHz to 18GHz)



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
98.939	28.44	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
245.556	27.42	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
627.147	34.12	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
3693.619	44.88	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5760.712	46.62	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12510.342	47.57	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

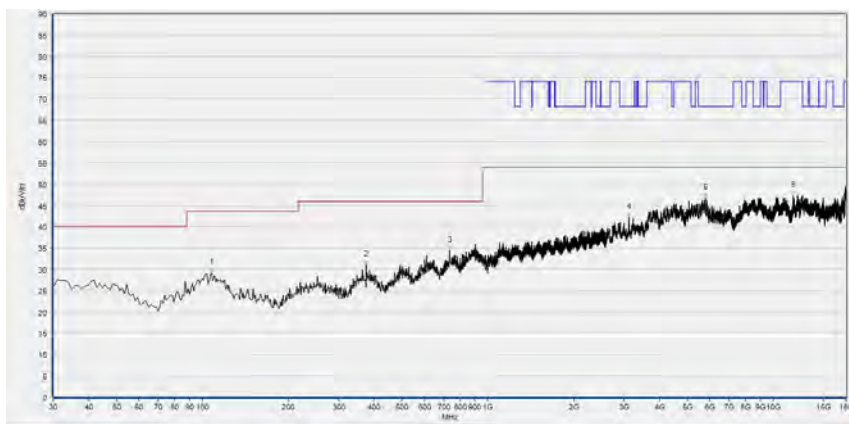
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 155



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
109.620	29.50	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
356.246	30.90	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
628.118	33.30	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
4485.337	45.78	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5751.470	48.08	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12143.749	47.40	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



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
107.678	29.15	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
374.695	30.96	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
733.954	34.29	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
3123.705	42.18	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5769.954	46.73	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
11730.946	47.22	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)



Annex A Test Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for test performed on the EUT as specified in CISPR 16-1-2:

Test Items	Uncertainty
Peak Output Power	$\pm 2.22\text{dB}$
Power Spectral Density	$\pm 2.22\text{dB}$
Bandwidth	$\pm 5\%$
Restricted Frequency Bands	$\pm 5\%$
Radiated Emission	$\pm 2.95\text{dB}$
Conducted Emission	$\pm 2.44\text{dB}$

This uncertainty represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.



Annex B Testing Laboratory Information

1. Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

3. Facilities and Accreditations

All measurement facilities used to collect the measurement data are located at FL.3, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.10-2013 and CISPR Publication 22; the FCC designation number is CN1192, the test firm registration number is 226174.



4. Test Equipments Utilized

4.1 Conducted Test Equipments

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Attenuator 1	N/A	10dB	Resnet	N/A	N/A
EXA Signal Analyzer	MY53470836	N9010A	Agilent	2021.03.25	2022.03.24
USB Wideband Power Sensor	MY54180008	U2021XA	Agilent	2021.03.25	2022.03.24
RF Cable (30MHz-26GHz)	CB01	RF01	Morlab	N/A	N/A
Coaxial Cable	CB02	RF02	Morlab	N/A	N/A
SMA Connector	CN01	RF03	HUBER-SUHNER	N/A	N/A
Temperature Chamber	12108015	DTL-003S101	YOMA	2021.10.20	2022.10.19

4.2 Conducted Emission Test Equipments

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Receiver	MY56400093	N9038A	KEYSIGHT	2021.03.09	2022.03.08
LISN	812744	NSLK 8127	Schwarzbeck	2021.03.09	2022.03.08
Pulse Limiter (10dB)	VTSD 9561 F-B #206	VTSD 9561-F	Schwarzbeck	2021.07.21	2022.07.20
Coaxial Cable(BNC) (30MHz-26GHz)	CB01	EMC01	Morlab	N/A	N/A

4.3 List of Software Used

Description	Manufacturer	Software Version
Test System	Tonscend	V2.5.77.0418
Morlab EMCR V1.2	Morlab	V1.0
TS+ -[JS32-CE]	Tonscend	V2.5.0.0

**4.4 Radiated Test Equipments**

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Receiver	MY54130016	N9038A	Agilent	2021.07.16	2022.07.15
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2019.05.24	2022.05.23
Test Antenna - Horn	BBHA9170 #774	BBHA 9170	Schwarzbeck	2019.07.26	2022.07.25
Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2019.02.14	2022.02.13
Test Antenna - Horn	01774	BBHA 9120D	Schwarzbeck	2019.07.26	2022.07.25
Coaxial Cable (N male) (9KHz-30MHz)	CB04	EMC04	Morlab	N/A	N/A
Coaxial Cable (N male) (30MHz-26GHz)	CB02	EMC02	Morlab	N/A	N/A
Coaxial Cable (N male) (30MHz-26GHz)	CB03	EMC03	Morlab	N/A	N/A
Coaxial Cable (N male) (30MHz-40GHz)	CB05	EMC05	Morlab	N/A	N/A
1-18GHz pre-Amplifier	61171/61172	S020180L32 03	Tonscend	2021.07.16	2022.07.15
18-26.5GHz pre-Amplifier	46732	S10M100L38 02	Tonscend	2021.07.16	2022.07.15
26-40GHz pre-Amplifier	56774	S40M400L40 02	Tonscend	2021.07.16	2022.07.15
Notch Filter	N/A	WRCG-5150-5350	Wainwright	2021.07.16	2022.07.15
Notch Filter	N/A	WRCG-5470-5725	Wainwright	2021.07.16	2022.07.15
Notch Filter	N/A	WRCG-5725-5850	Wainwright	2021.07.16	2022.07.15



Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Anechoic Chamber	N/A	9m*6m*6m	CRT	2020.01.06	2023.01.05

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