



(Channel 126, 5630 MHz, 802.11n (HT40))



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



(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	-2.69	0.81	-1.88	11	PASS
44	5220	-2.71		-1.90		
48	5240	-1.96		-1.15		
52	5260	-1.99		-1.18		
60	5300	-2.45		-1.64		
64	5320	-2.05		-1.24		
100	5500	-2.22		-1.41		
120	5600	-1.51		-0.70		
144	5720	-1.74		-0.93		
Channel	Frequency (MHz)	Measured PPSD (dBm/500KHz)	Duty Factor	Corrected (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
144	5720	-4.74	0.81	-3.93	30	PASS
149	5745	-4.98		-4.17		
157	5785	-5.38		-4.57		
165	5825	-5.21		-4.40		

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 PSD (dBm/MHz)	Duty Factor	Corrected PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
38	5190	-6.07	1.47	-4.60	11	PASS
46	5230	-6.03		-4.56		
54	5270	-6.29		-4.82		
62	5310	-6.43		-4.96		
102	5510	-6.16		-4.69		
126	5630	-5.31		-3.84		
142	5710	-5.50		-4.03		
Channel	Frequency (MHz)	Measured PSD (dBm/500KHz)	Duty Factor	Corrected (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
142	5710	-8.32	1.47	-6.85	30	PASS
151	5755	-9.04		-7.57		
155	5795	-9.21		-7.74		

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))



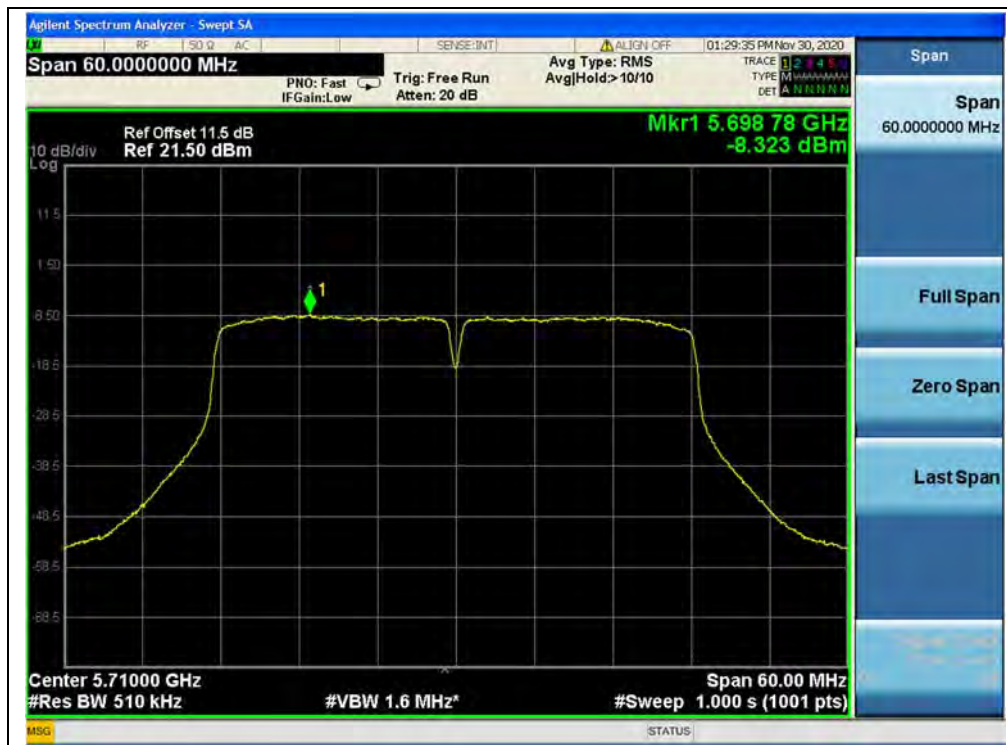
(Channel 102, 5510MHz, 802.11ac (VHT40))



(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	-11.70	2.57	-9.13	11	PASS
58	5290	-12.03		-9.46		
106	5530	-11.66		-9.09		
122	5610	-10.78		-8.21		
138	5690	-11.14		-8.57		
Channel	Frequency (MHz)	Measured PSD (dBm/500KHz)	Duty Factor	Corrected (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
138	5690	-13.58	2.57	-11.01	30	PASS
155	5775	-14.73		-12.16		

B.Test Plot:



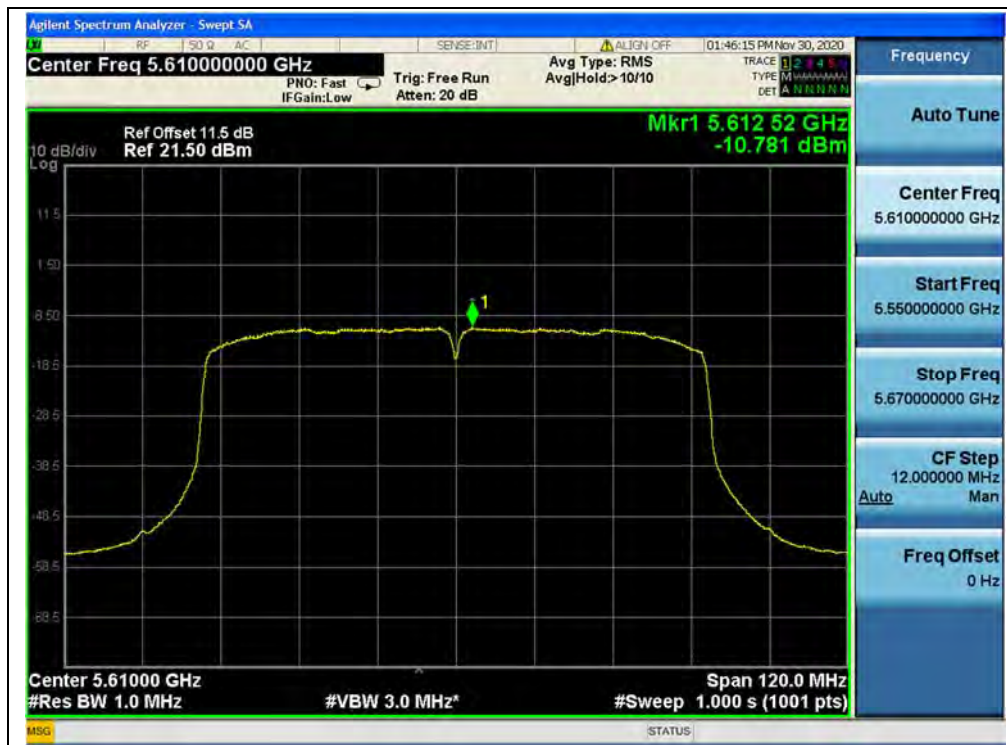
(Channel 42, 5210MHz, 802.11ac (VHT80))



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



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



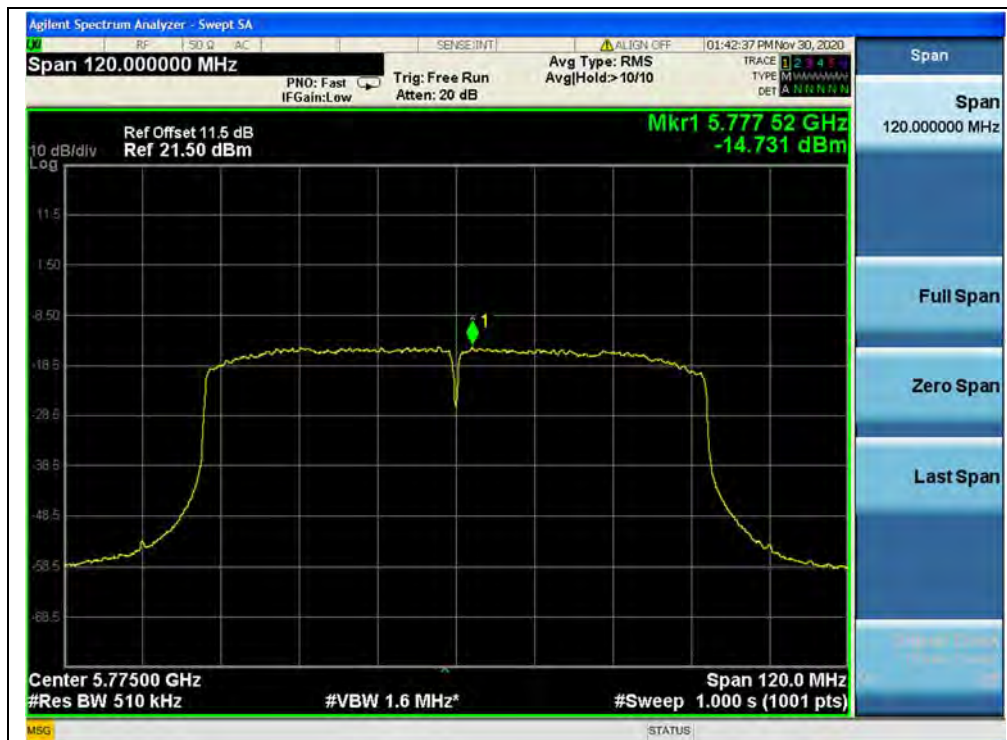
(Channel 122, 5610MHz, 802.11ac (VHT80))



(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)	23	4.440
100%		-30	31	5.985
100%		-20	29	5.598
100%		-10	26	5.019
100%		0	25	4.826
100%		+10	22	4.247
100%		+20	20	3.861
100%		+30	23	4.440
100%		+40	26	5.019
100%		+50	23	4.440
85%	4.25	+20	28	5.405
115%	5.50	+20	30	5.792



U-NII-2A (Ch. 52)				
5260MHz				
VOLTAGE (%)	POWER (VDC)	TEMP (°C)	Fre. Dev. (kHz)	Deviation (ppm)
100%	5.00	+20(Ref)	18	3.422
100%		-30	22	4.183
100%		-20	25	4.753
100%		-10	27	5.133
100%		0	19	3.612
100%		+10	17	3.232
100%		+20	21	3.992
100%		+30	26	4.943
100%		+40	30	5.703
100%		+50	25	4.753
85%	4.25	+20	19	3.612
115%	5.50	+20	21	3.992

U-NII-2C (Ch. 100)				
5500MHz				
VOLTAGE (%)	POWER (VDC)	TEMP (°C)	Fre. Dev. (kHz)	Deviation (ppm)
100%	5.00	+20(Ref)	21	3.818
100%		-30	25	4.545
100%		-20	30	5.455
100%		-10	29	5.273
100%		0	22	4.000
100%		+10	19	3.455
100%		+20	23	4.182
100%		+30	32	5.818
100%		+40	35	6.364
100%		+50	25	4.545
85%	4.25	+20	27	4.909
115%	5.50	+20	30	5.455



U-NII-3 (Ch. 149) 5745MHz				
VOLTAGE (%)	POWER (VDC)	TEMP (°C)	Fre. Dev. (kHz)	Deviation (ppm)
100%	5.00	+20(Ref)	22	3.829
100%		-30	26	4.526
100%		-20	27	4.700
100%		-10	21	3.655
100%		0	30	5.222
100%		+10	25	4.352
100%		+20	26	4.526
100%		+30	26	4.526
100%		+40	28	4.874
100%		+50	28	4.874
85%	4.25	+20	31	5.396
115%	5.50	+20	29	5.048

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).

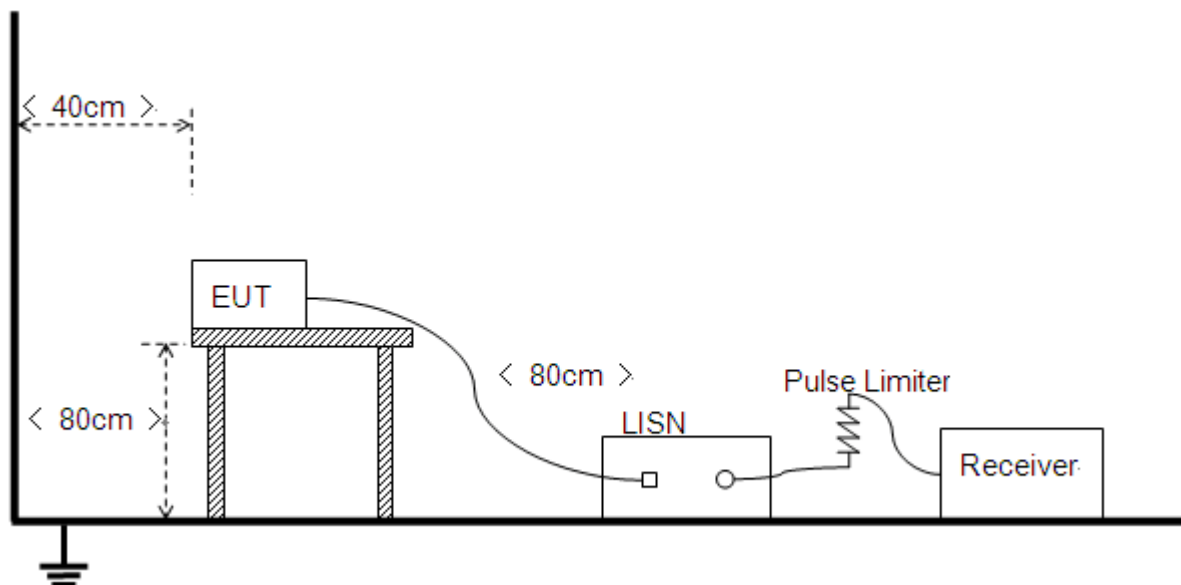
Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

Note:

- The lower limit shall apply at the band edges.
- 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+ camera + display + adapter + WIFI TX

Test Voltage: AC 120V/60Hz

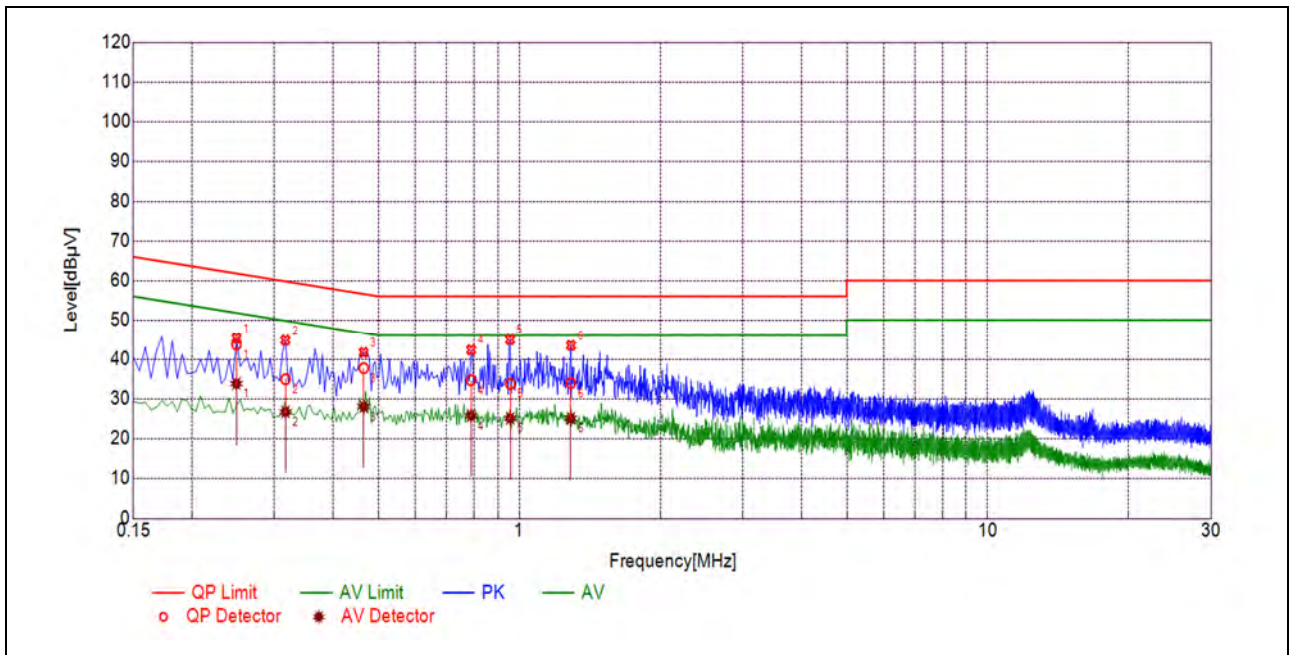
The measurement results are obtained as below:

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

U_R : Receiver Reading

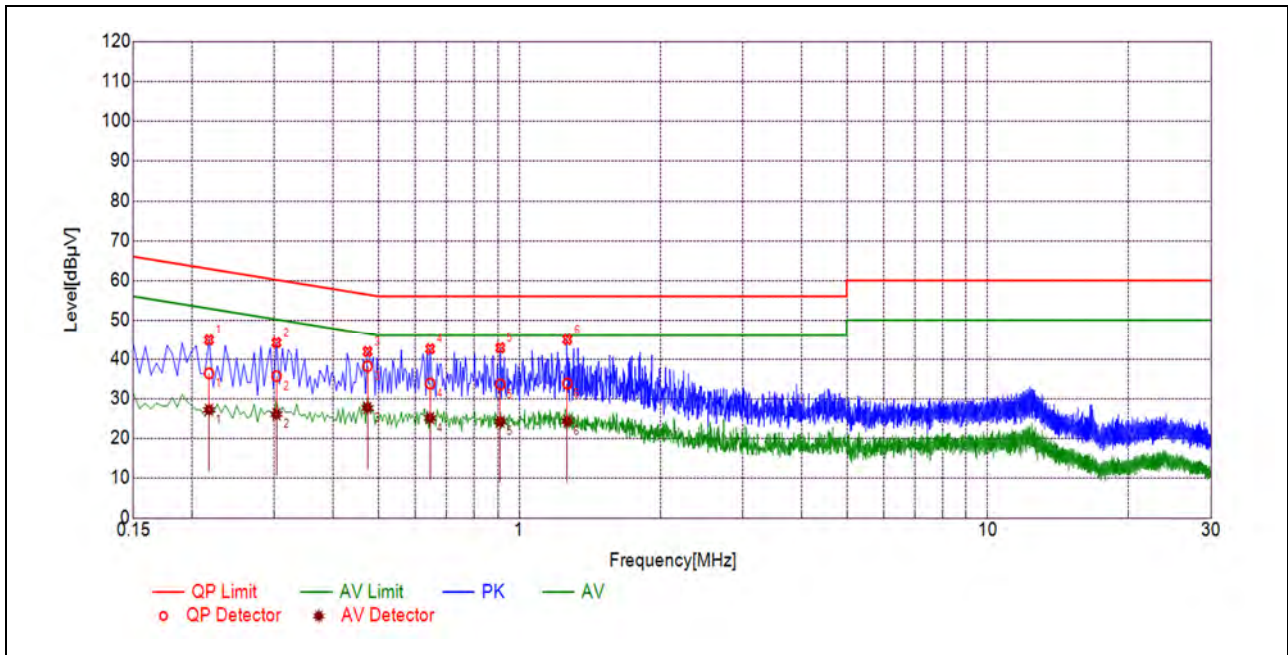
A_{Factor} : Voltage division factor of LISN

B.Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.2488	43.68	33.79	61.80	51.80	Line	PASS
2	0.3167	34.91	26.68	59.79	49.79		PASS
3	0.4651	37.71	28.03	56.60	46.60		PASS
4	0.7885	34.64	25.71	56.00	46.00		PASS
5	0.9563	33.71	25.07	56.00	46.00		PASS
6	1.2884	33.93	25.08	56.00	46.00		PASS



(N Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.2175	36.35	27.16	62.91	52.91	Neutral	PASS
2	0.3030	35.66	26.03	60.16	50.16		PASS
3	0.4740	38.17	27.67	56.44	46.44		PASS
4	0.6449	33.76	25.09	56.00	46.00		PASS
5	0.9108	33.56	24.20	56.00	46.00		PASS
6	1.2659	33.78	24.32	56.00	46.00		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

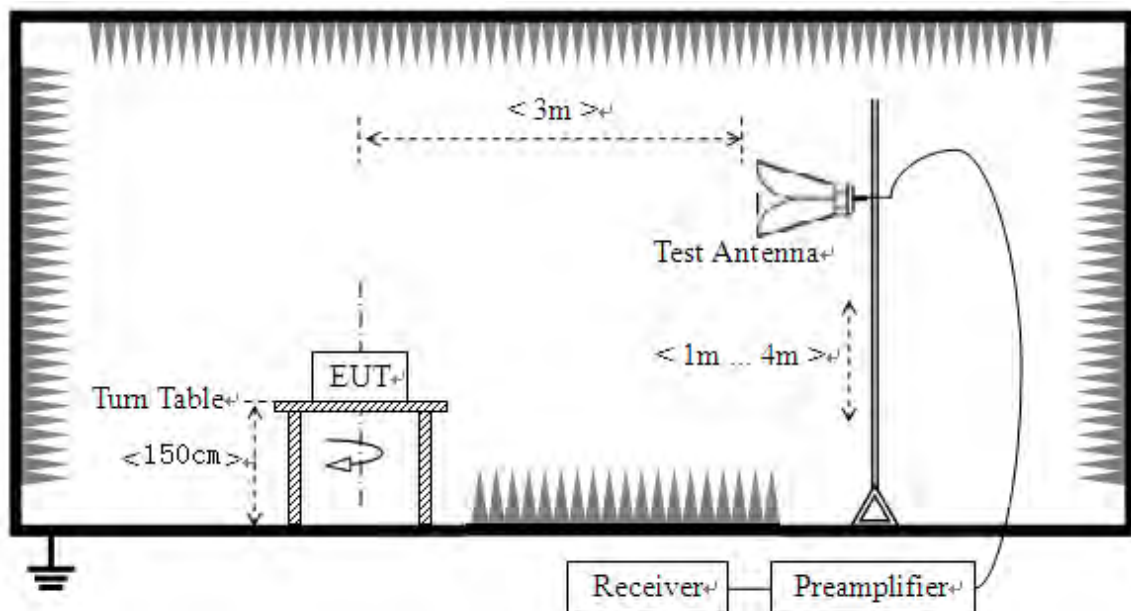
Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209. According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following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

Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
0.009 - 0.490	$2400/F(\text{kHz})$	300
0.490 - 1.705	$24000/F(\text{kHz})$	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.

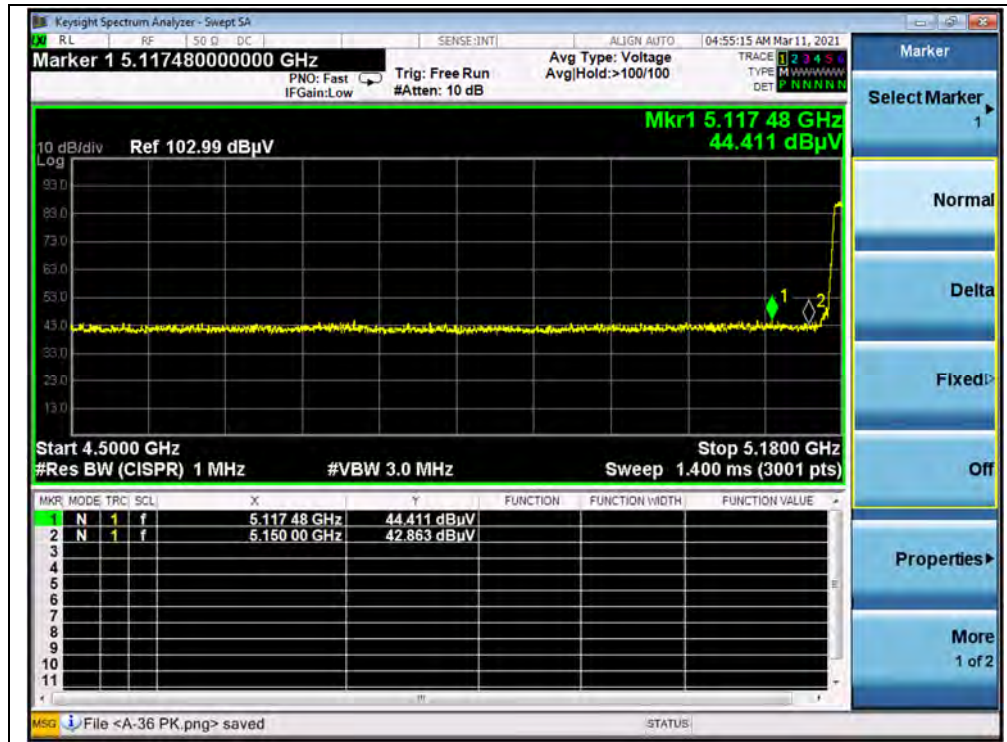
Note 2 All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.

802.11a Mode

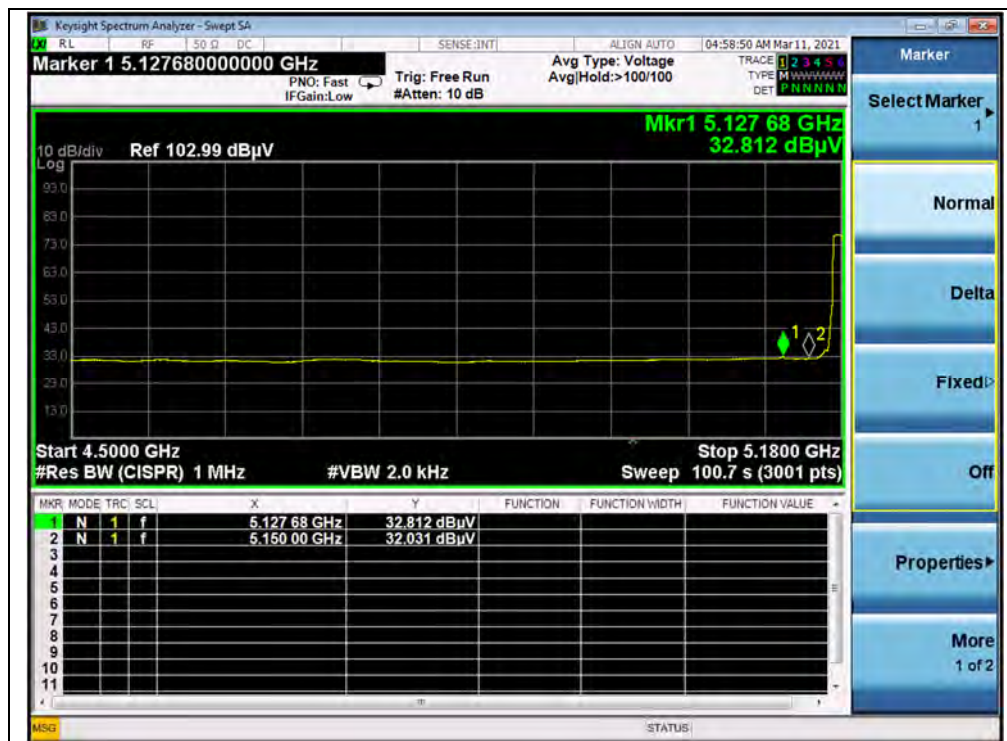
A.Test Verdict:

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
36	5117.48	PK	44.41	-16.92	32.20	59.69	74	PASS
36	5127.68	AV	32.81	-16.92	32.20	48.09	54	PASS
64	5351.86	PK	41.10	-16.80	32.20	56.50	74	PASS
64	5350.00	AV	30.69	-16.80	32.20	46.09	54	PASS
100	5436.95	PK	42.39	-16.64	32.20	57.95	74	PASS
100	5470.00	AV	30.76	-16.64	32.20	46.32	54	PASS
144	5725.98	PK	45.08	-16.64	32.20	60.64	68.23	PASS
144	5725.00	AV	33.03	-16.64	32.20	48.59	54	PASS
149	5725.00	PK	47.60	-16.23	32.20	63.57	122.23	PASS
165	5850.00	PK	41.84	-16.23	32.20	57.81	122.23	PASS

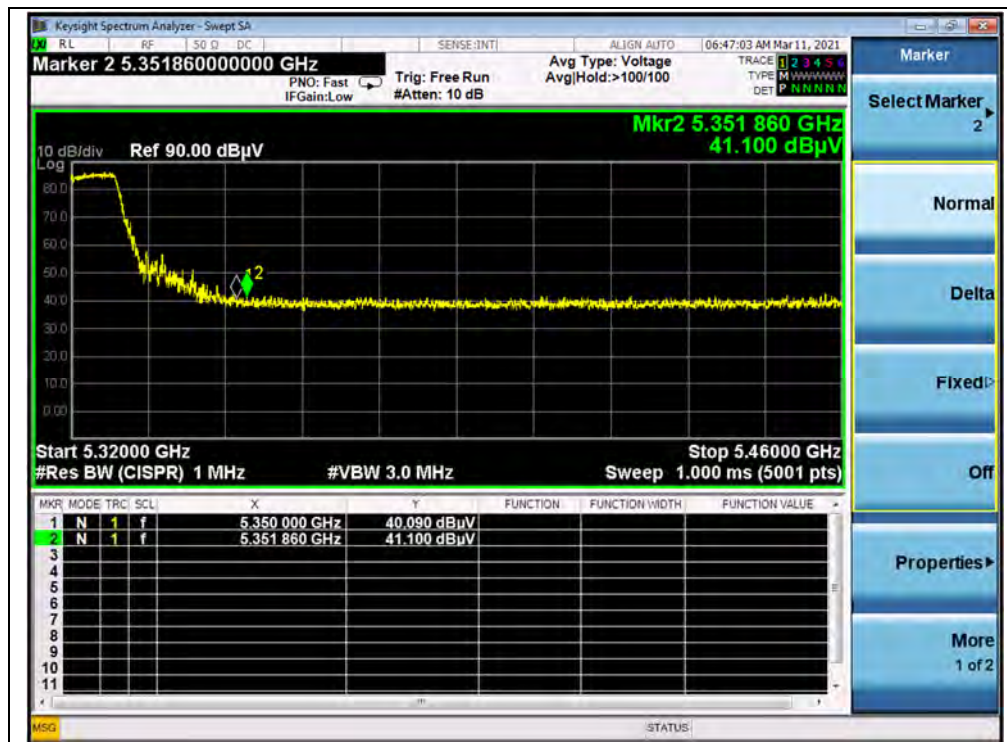
B.Test Plot:



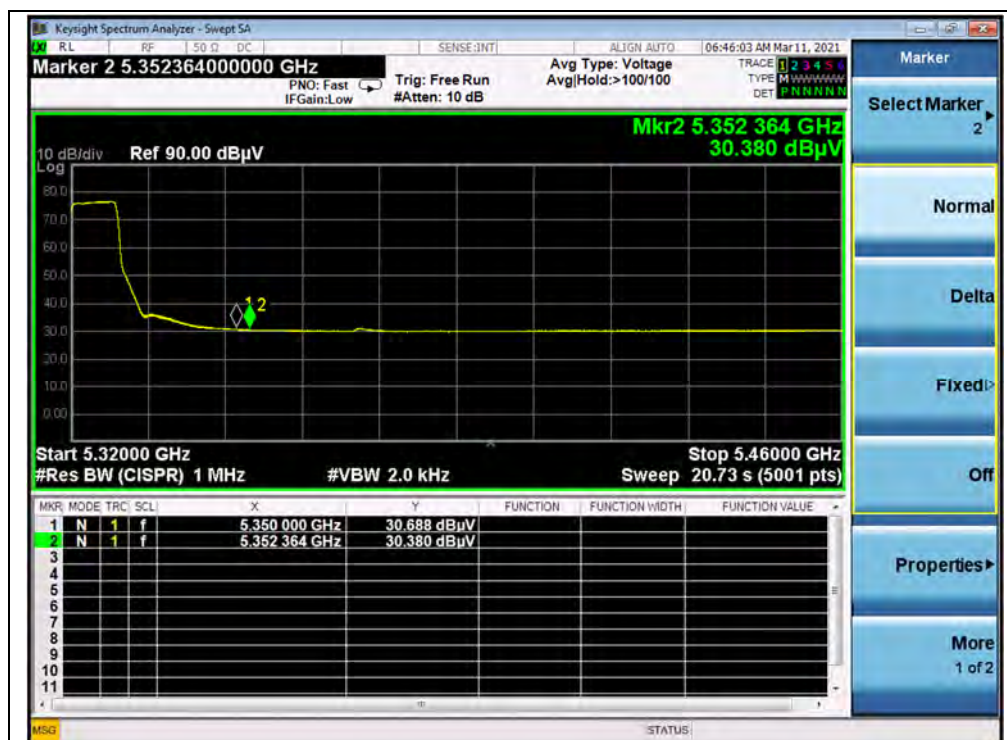
(PEAK, Channel 36, 802.11a)



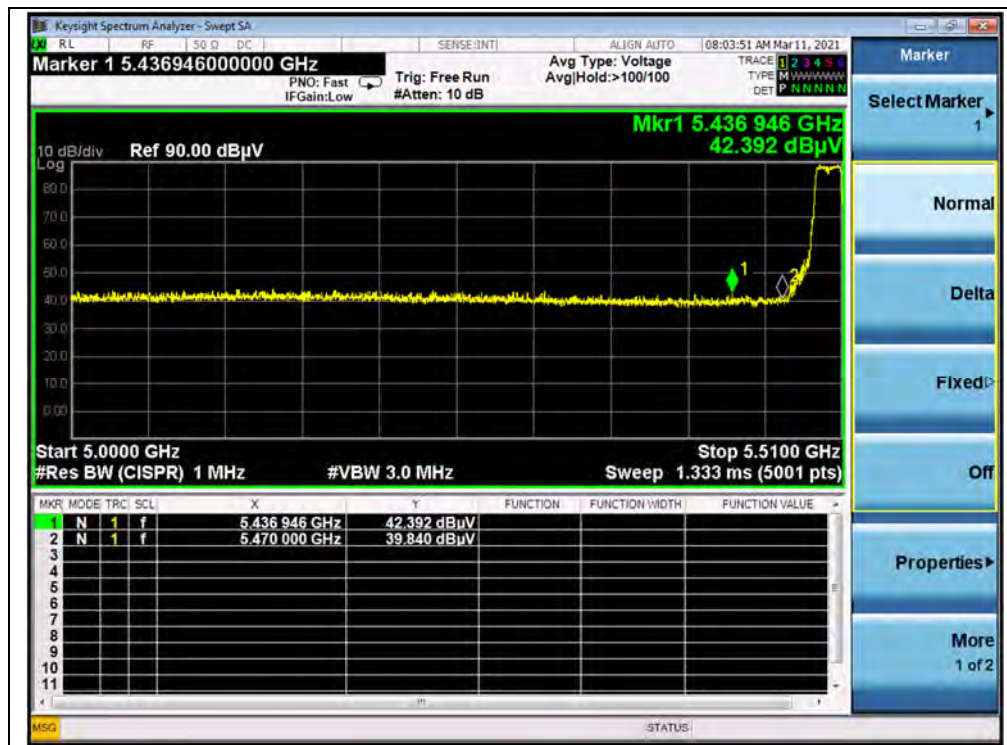
(AVERAGE, Channel 36, 802.11a)



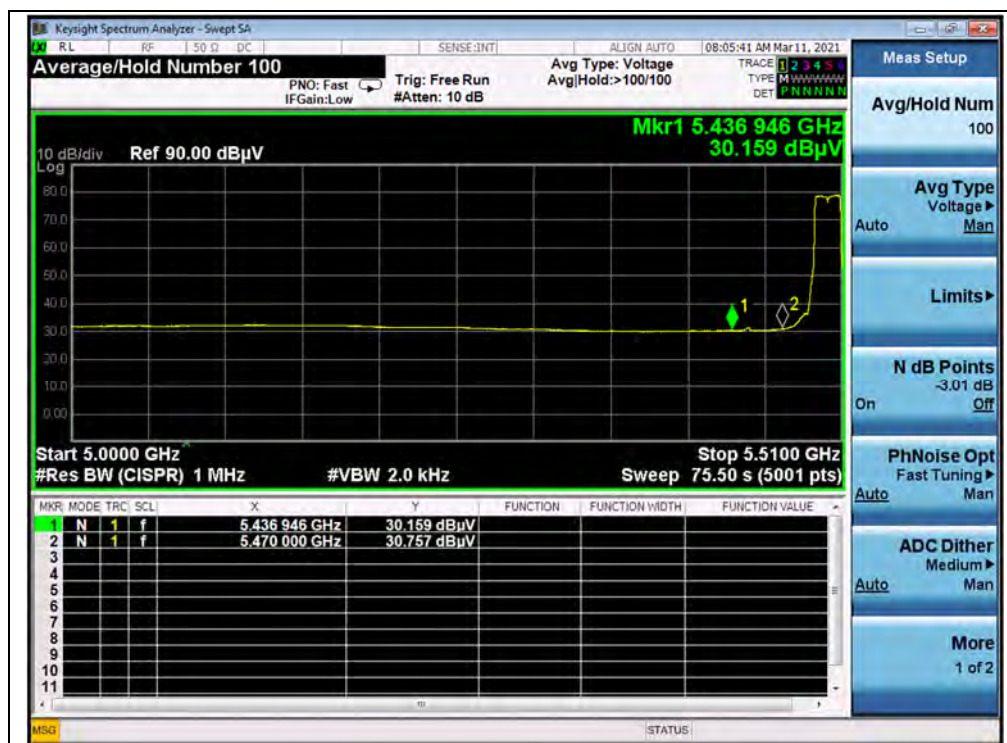
(PEAK, Channel 64, 802.11a)



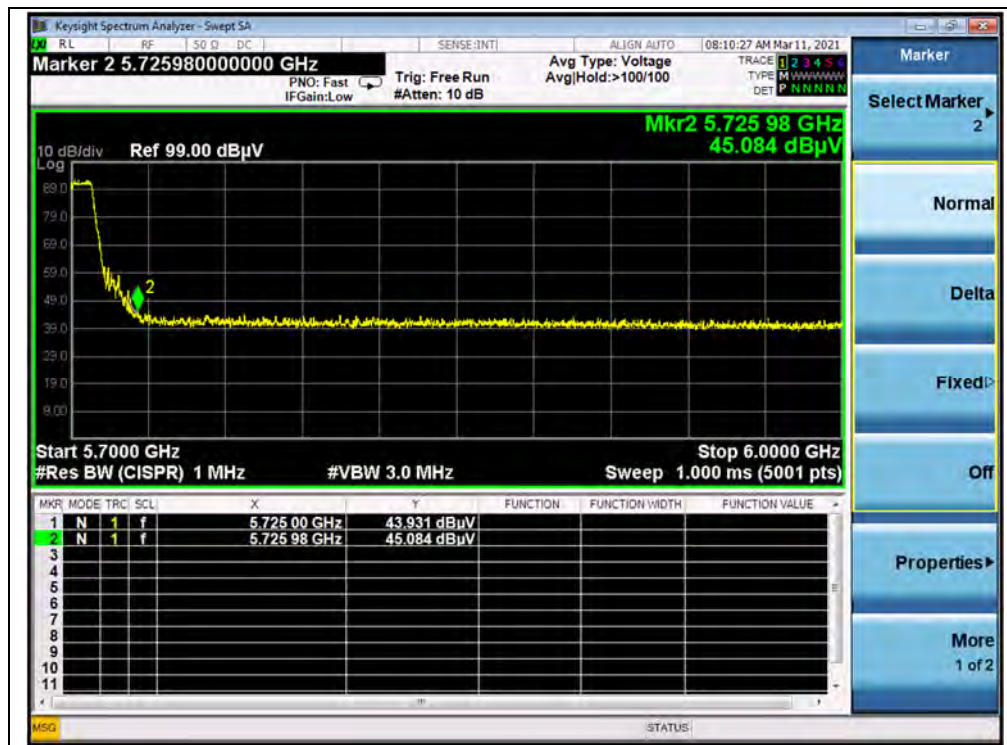
(AVERAGE, Channel 64, 802.11a)



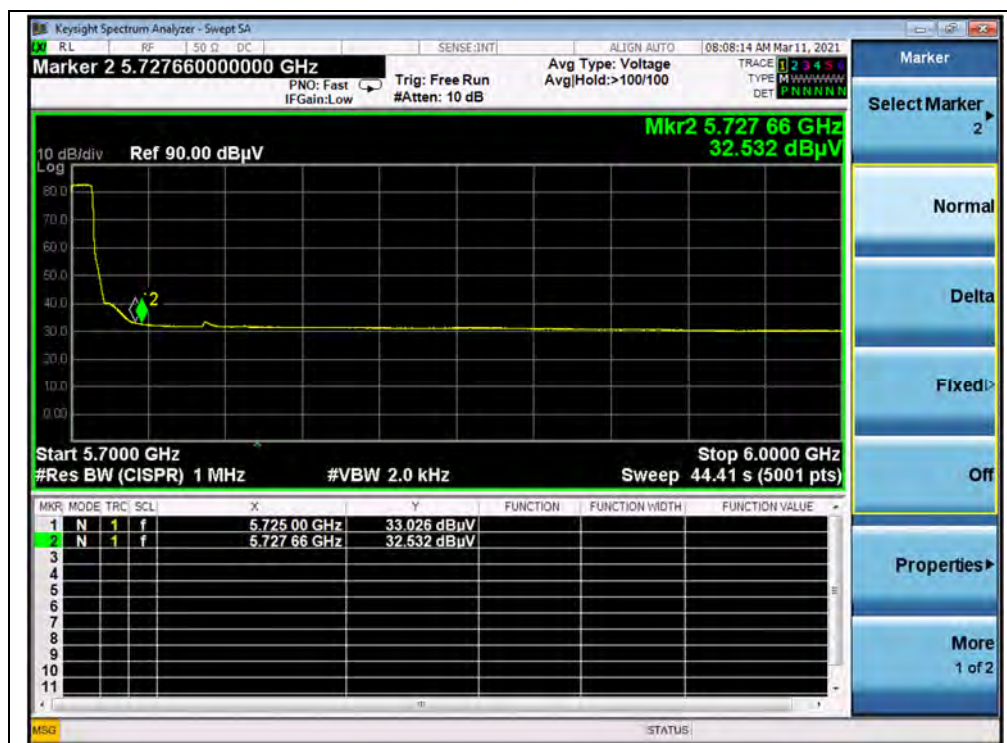
(PEAK, Channel100, 802.11a)



(AVERAGE, Channel 100, 802.11a)



(PEAK, Channel 144, 802.11a)



(AVERAGE, Channel 144, 802.11a)



(PEAK, Channel 149, 802.11a)



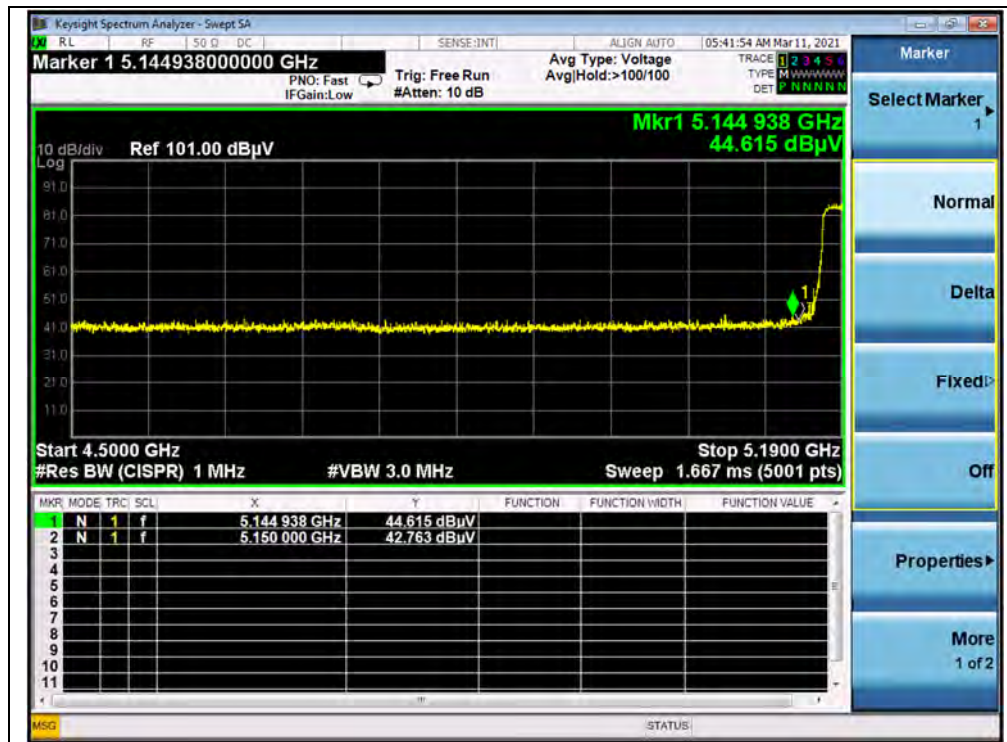
(PEAK, Channel 165, 802.11a)

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

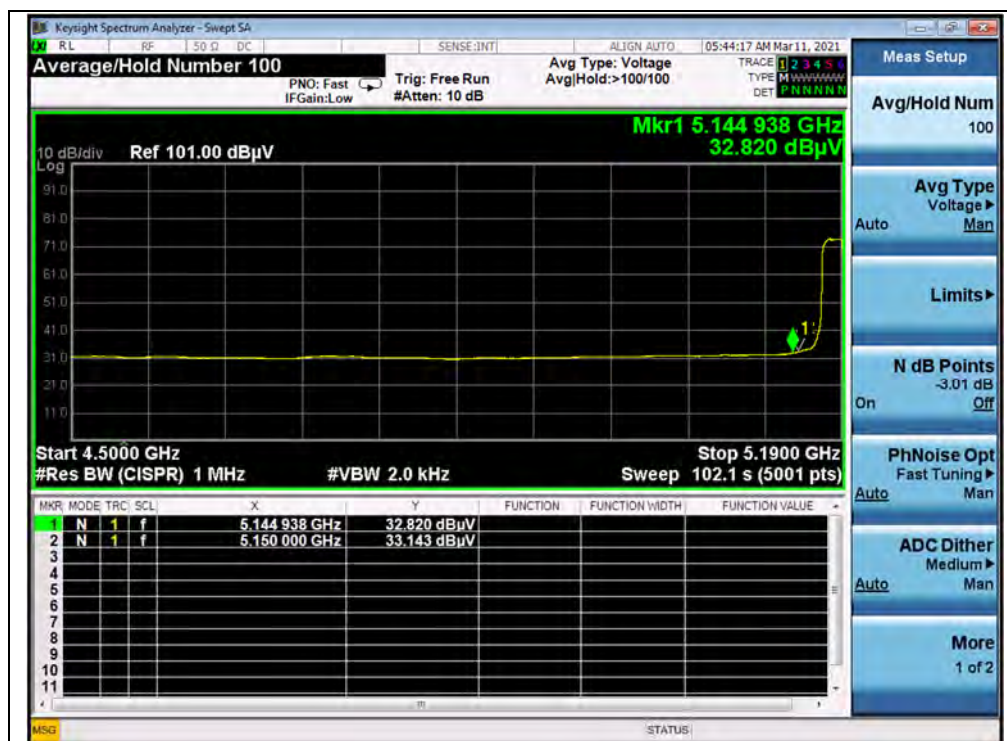
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
38	5144.94	PK	44.62	-16.92	32.20	59.9	74	PASS
38	5150.00	AV	33.14	-16.92	32.20	48.42	54	PASS
62	5352.49	PK	43.24	-16.80	32.20	58.64	74	PASS
62	5350.00	AV	30.58	-16.80	32.20	45.98	54	PASS
102	5466.08	PK	41.37	-16.64	32.20	56.93	74	PASS
102	5470.00	AV	30.83	-16.64	32.20	46.39	54	PASS
142	5727.90	PK	43.29	-16.64	32.20	58.85	68.23	PASS
142	5725.00	AV	31.78	-16.64	32.20	47.34	54	PASS
151	5725.00	PK	46.07	-16.23	32.20	62.04	122.83	PASS
159	5855.00	PK	41.26	-16.23	32.20	57.23	110.83	PASS



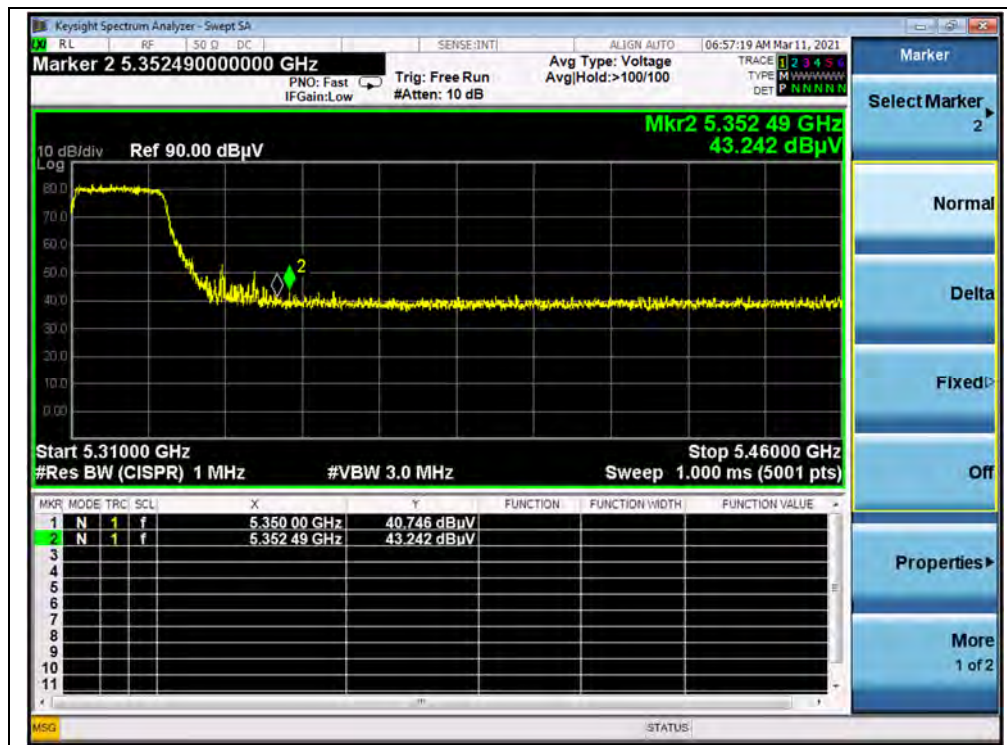
B.Test Plot:



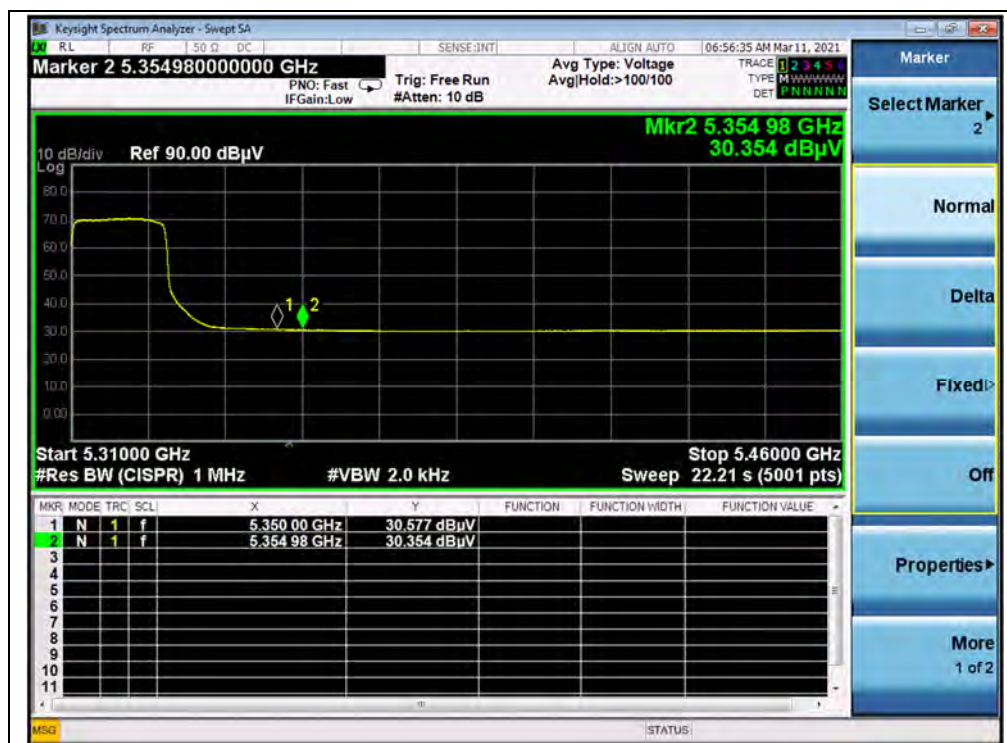
(PEAK, Channel 38, 802.11n (HT40))



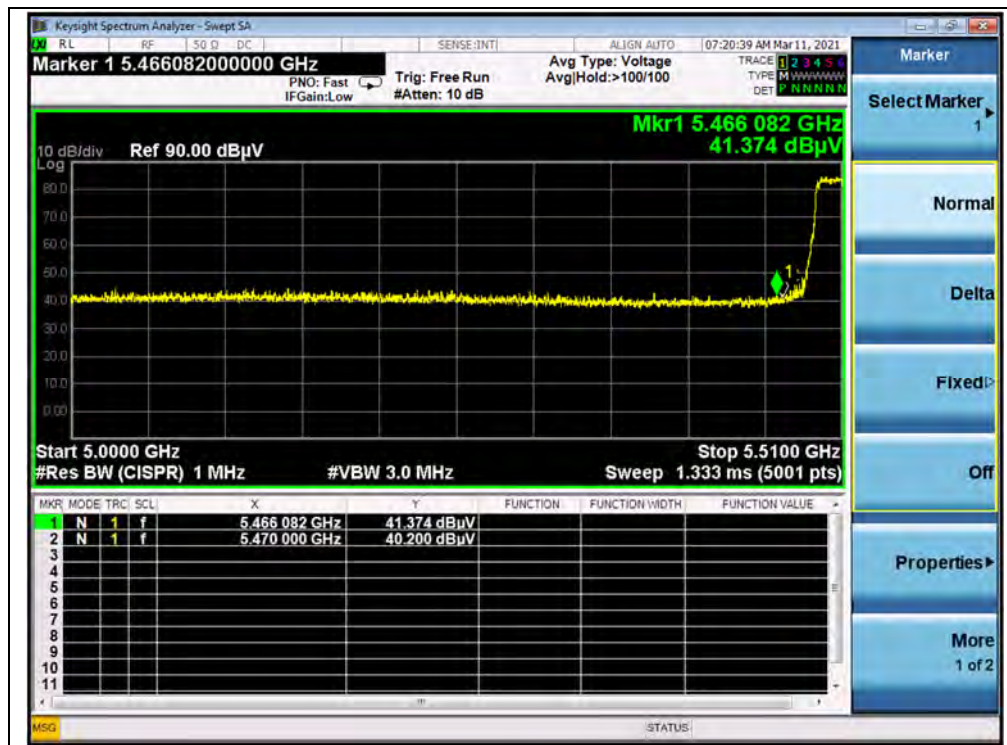
(AVERAGE, Channel 38, 802.11n (HT40))



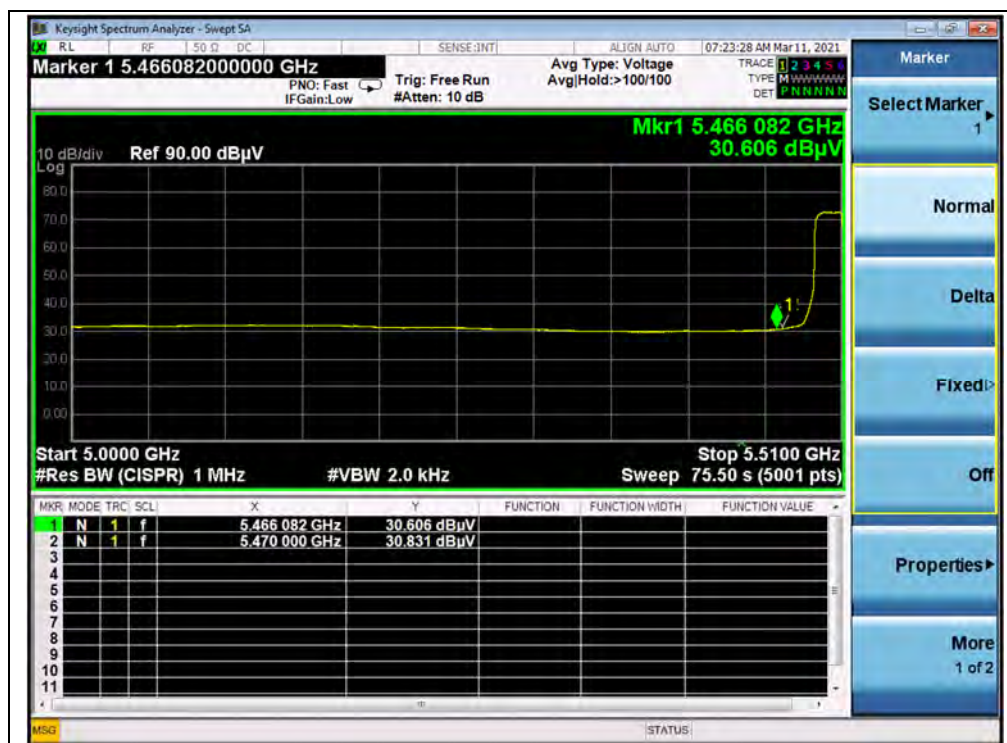
(PEAK, Channel 62, 802.11n (HT40))



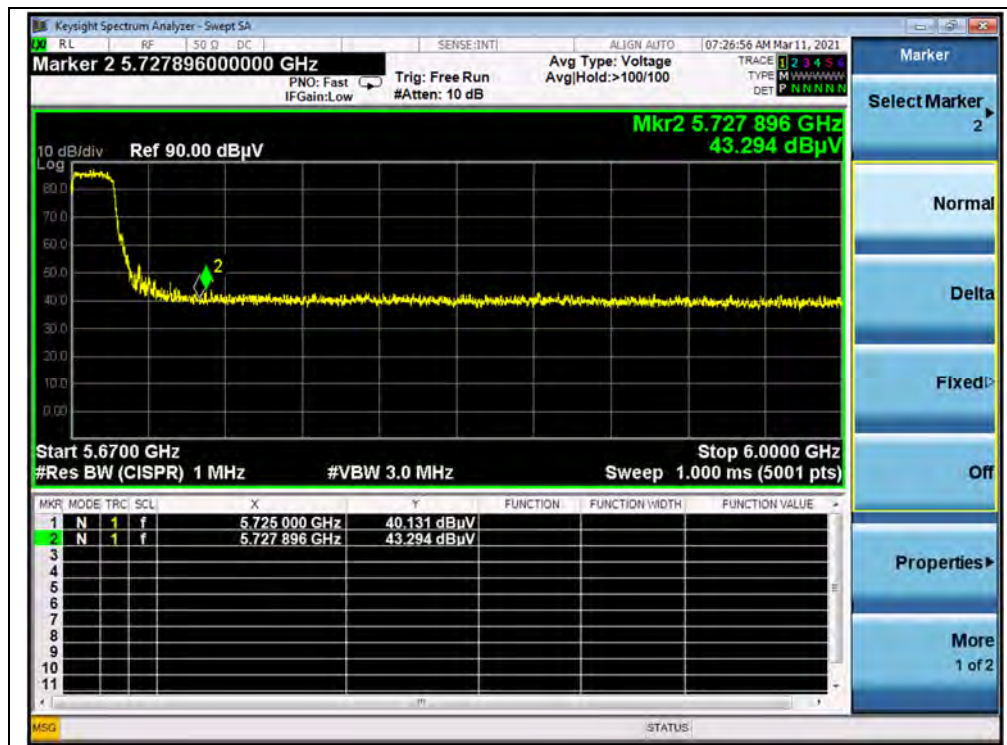
(AVERAGE, Channel 62, 802.11n (HT40))



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



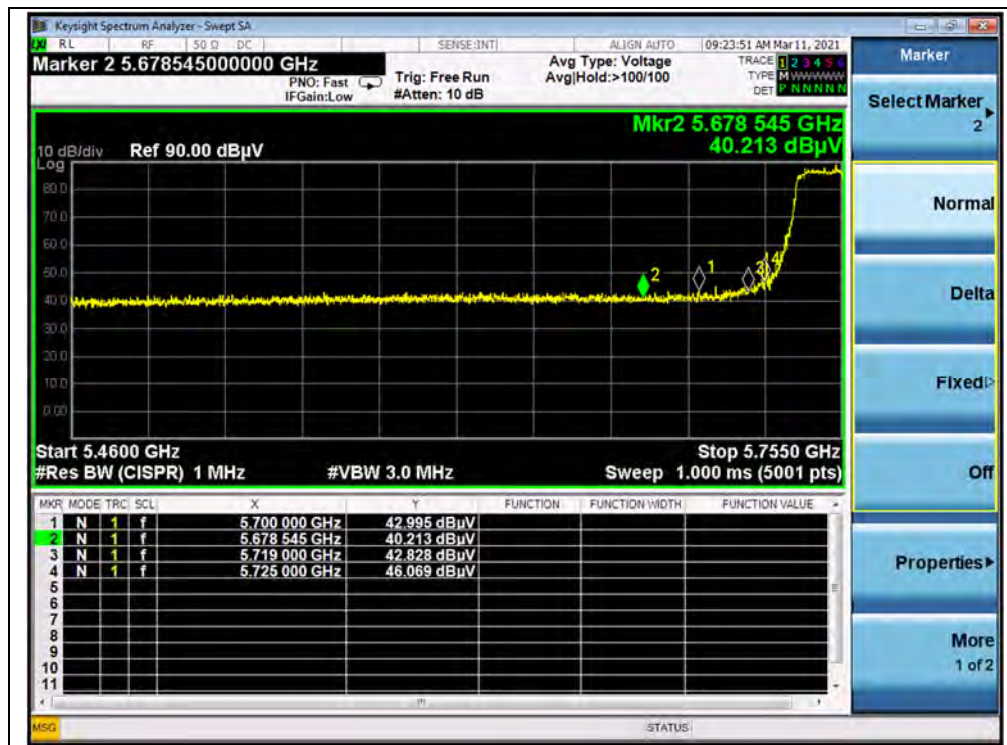
(AVERAGE, Channel 102, 802.11n (HT40))



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



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



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



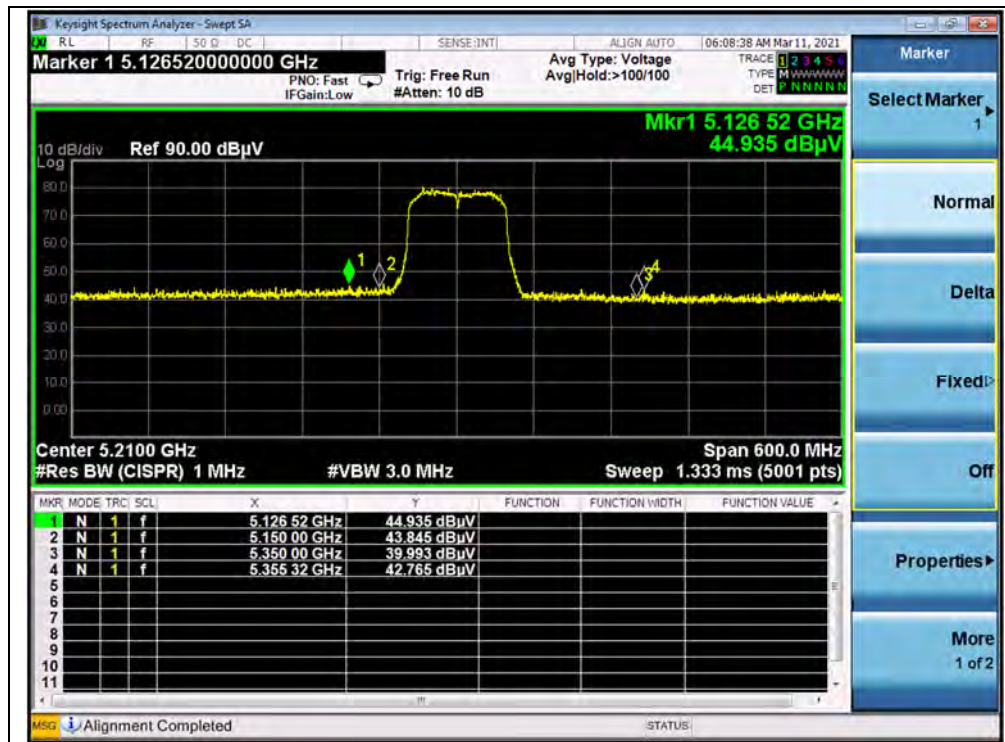
(PEAK, Channel 159, 802.11n (HT40))

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

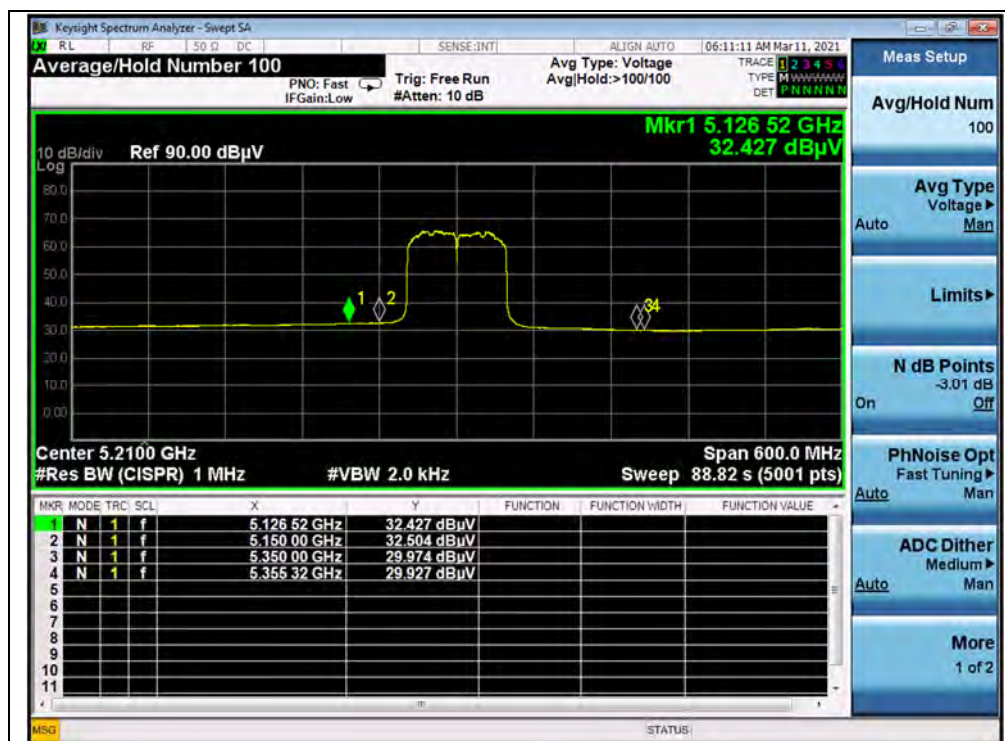
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
42	5126.52	PK	44.94	-16.92	32.20	60.22	74	PASS
42	5150.00	AV	32.50	-16.92	32.20	47.78	54	PASS
58	5124.20	PK	43.65	-16.80	32.20	59.05	74	PASS
58	5150.00	AV	31.90	-16.80	32.20	47.30	54	PASS
106	5460.61	PK	42.00	-16.64	32.20	57.56	68.23	PASS
106	5470.00	AV	30.58	-16.64	32.20	46.14	54	PASS
138	5736.40	PK	42.83	-16.64	32.20	58.39	68.23	PASS
138	5725.00	AV	31.48	-16.64	32.20	47.04	54	PASS
155	5720.24	PK	44.02	-16.23	32.20	59.99	111.38	PASS
155	5850.00	PK	41.34	-16.23	32.20	57.31	122.23	PASS



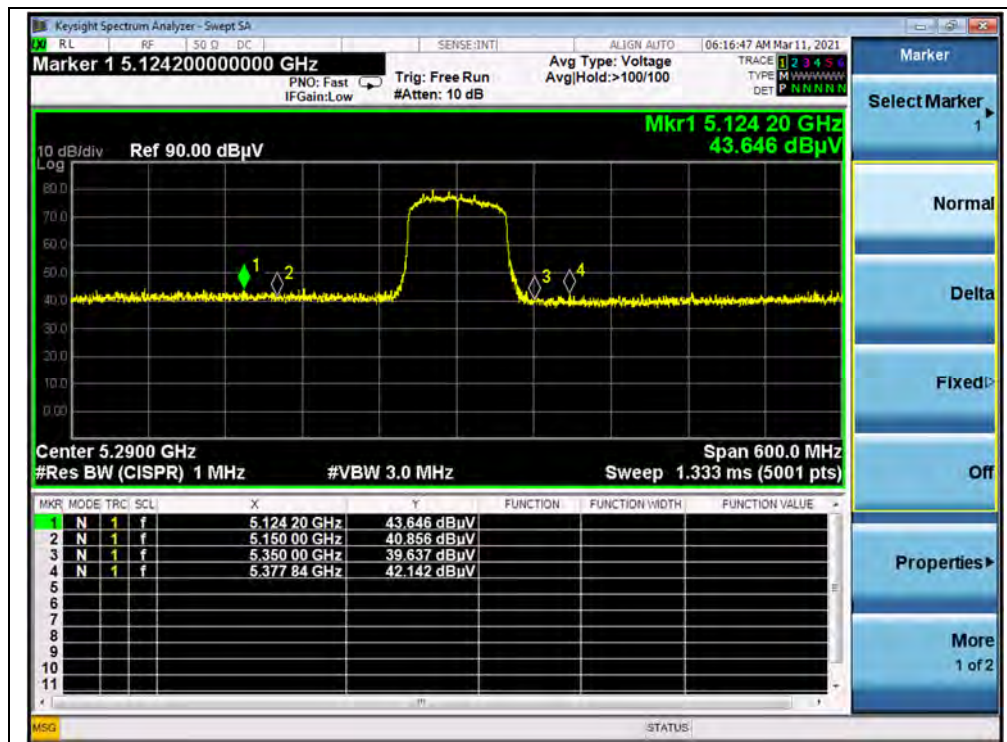
B.Test Plot:



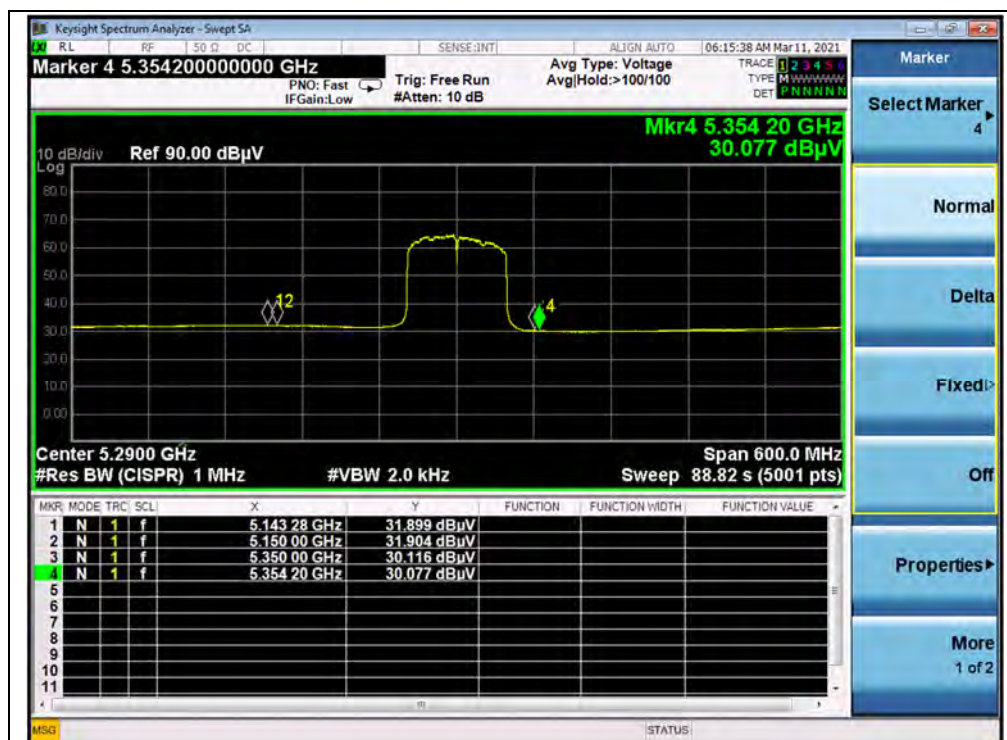
(PEAK, Channel 42, 802.11ac (VHT80))



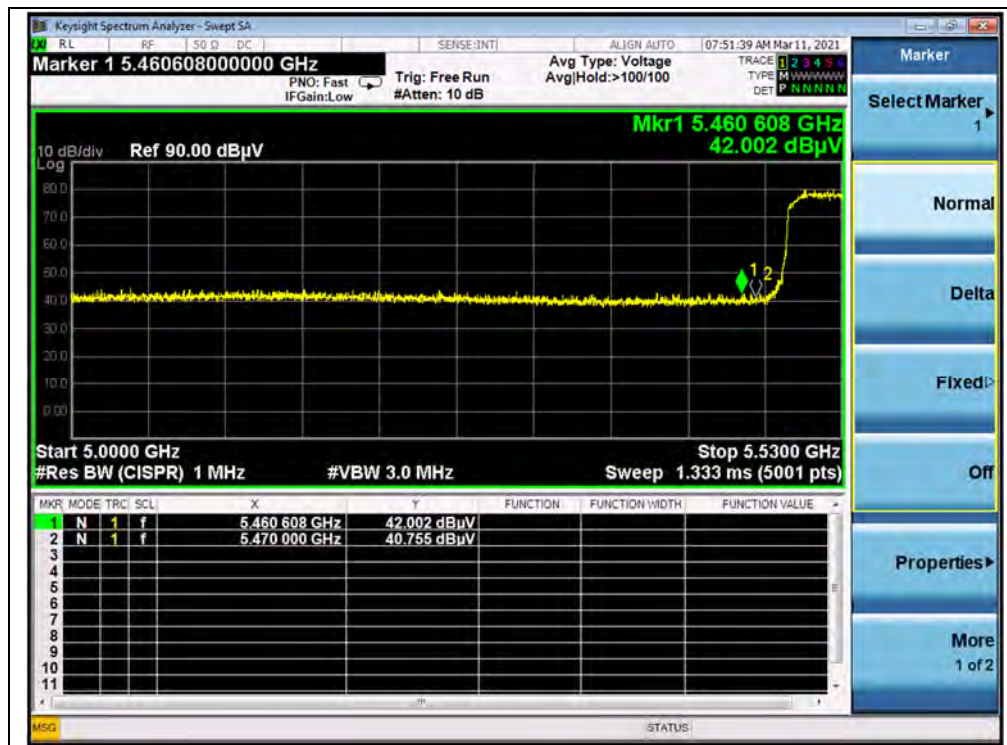
(AVERAGE, Channel 42, 802.11ac (VHT80))



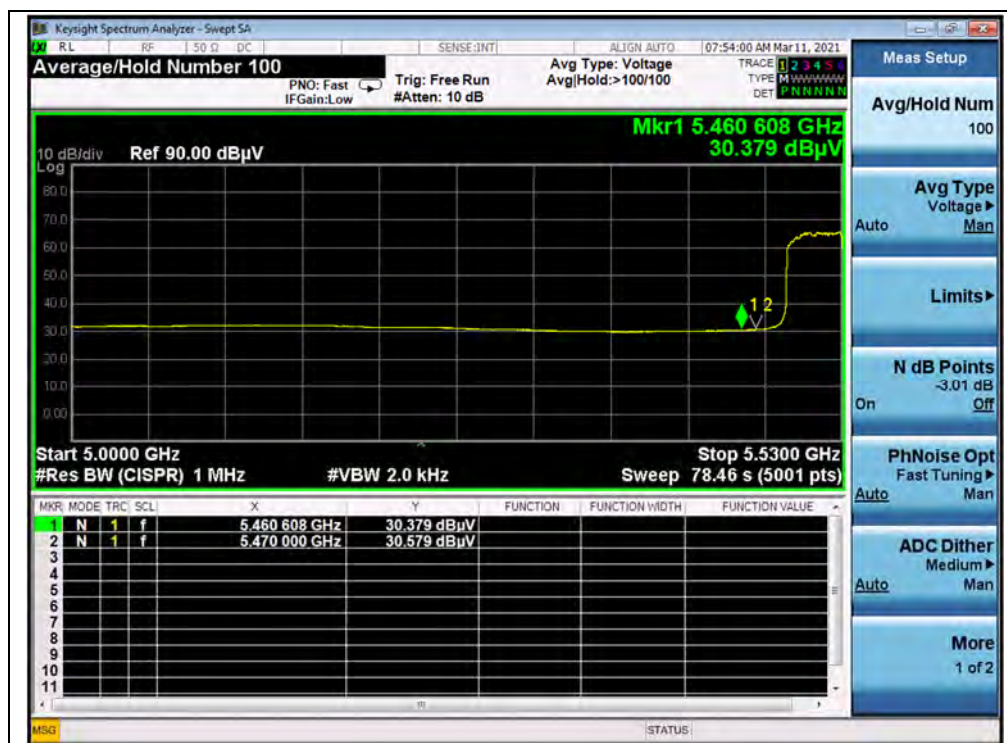
(PEAK, Channel 58, 802.11ac (VHT80))



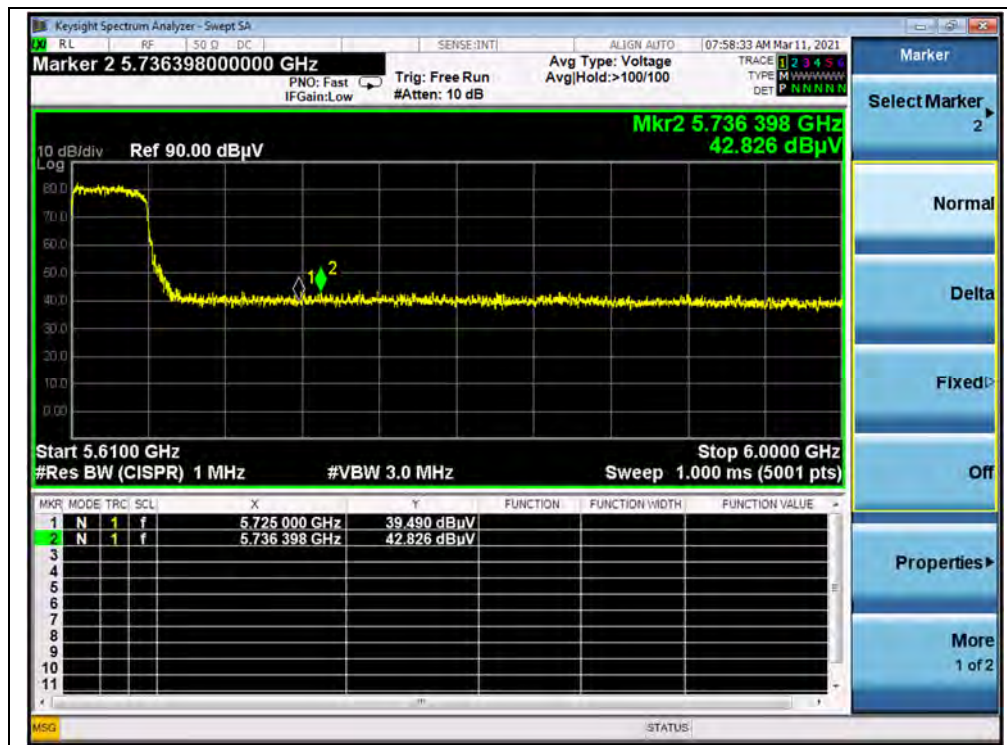
(AVERAGE, Channel 58, 802.11ac (VHT80))



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



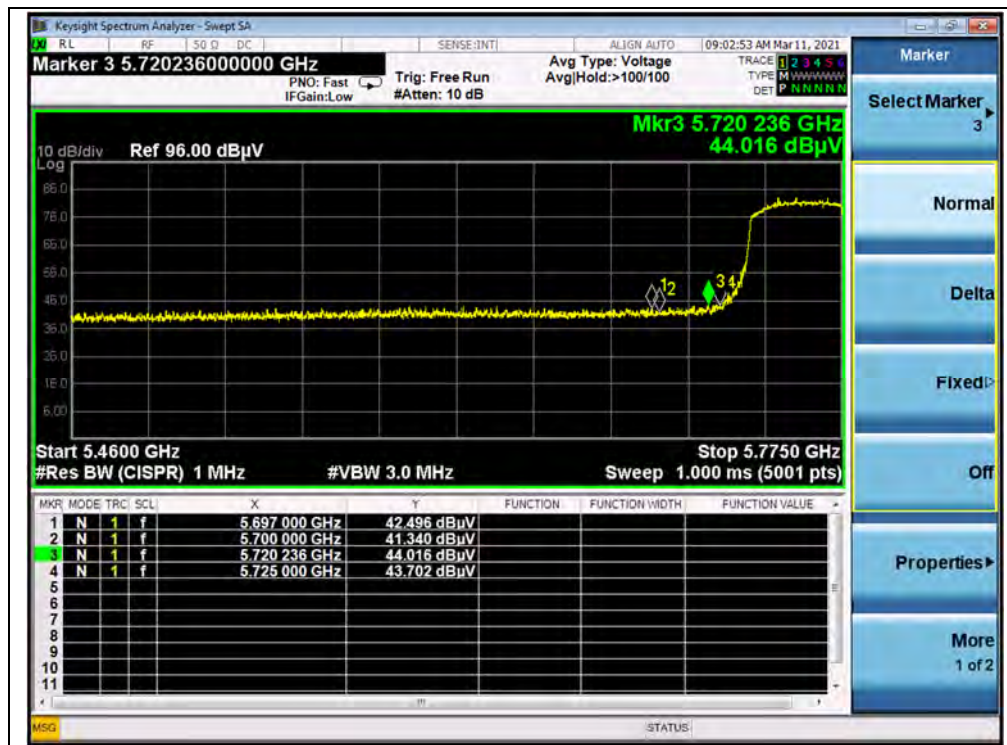
(AVERAGE, Channel 106, 802.11ac (VHT80))



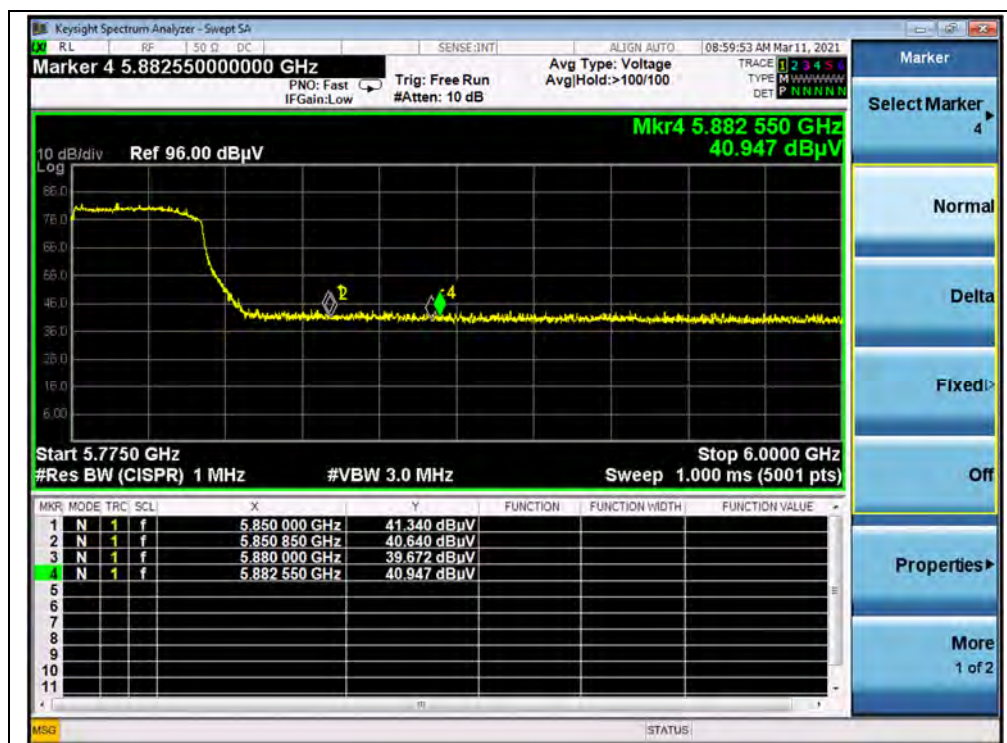
(PEAK, Channel 138, 802.11ac (VHT80))



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



(PEAK, Channel 155, 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:

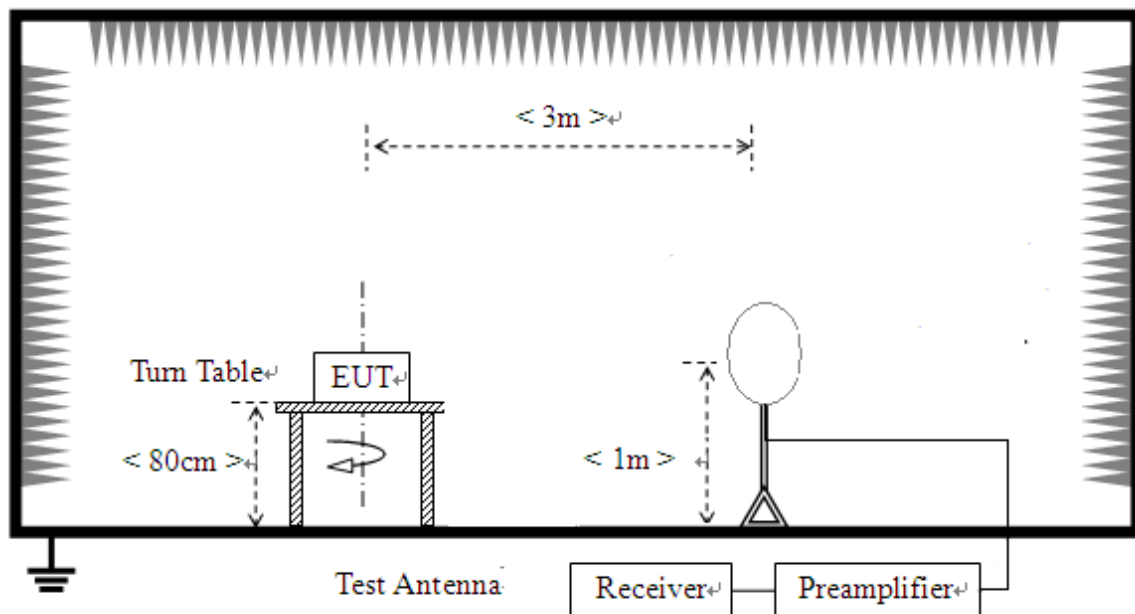
Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

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).

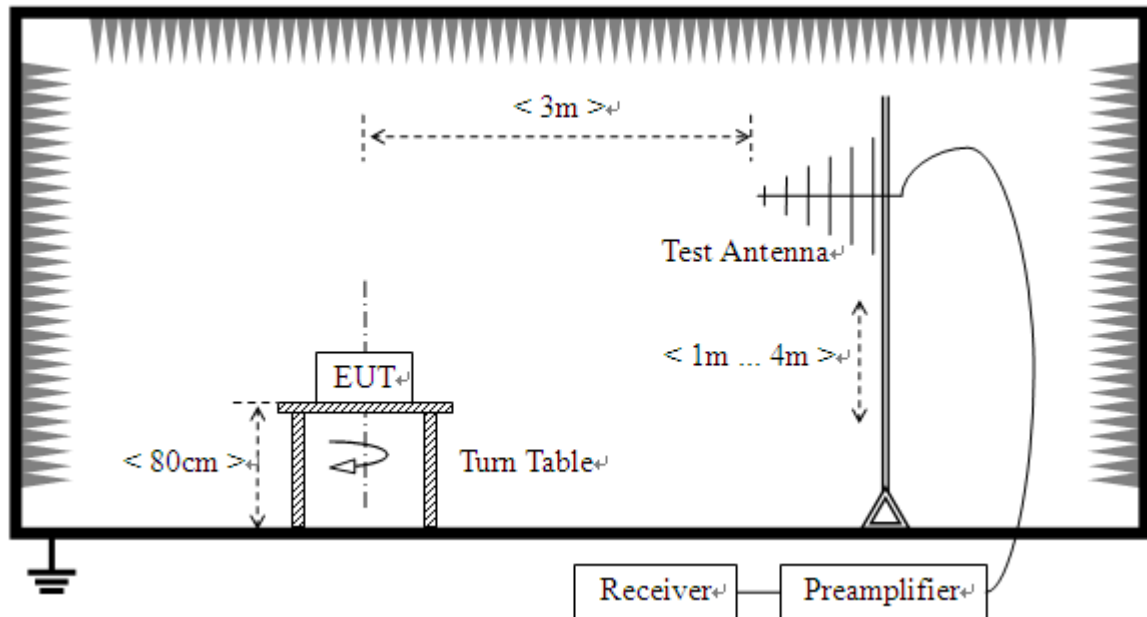
2.9.2. Test Description

Test Setup:

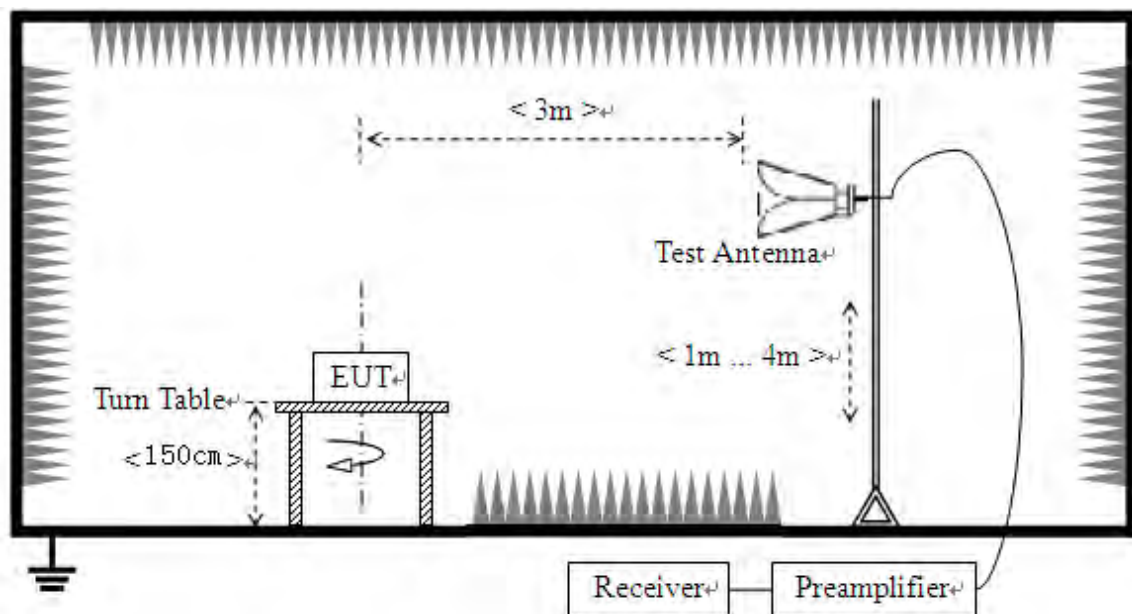
- 1) For radiated emissions from 9kHz to 30MHz



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 3meters. 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.

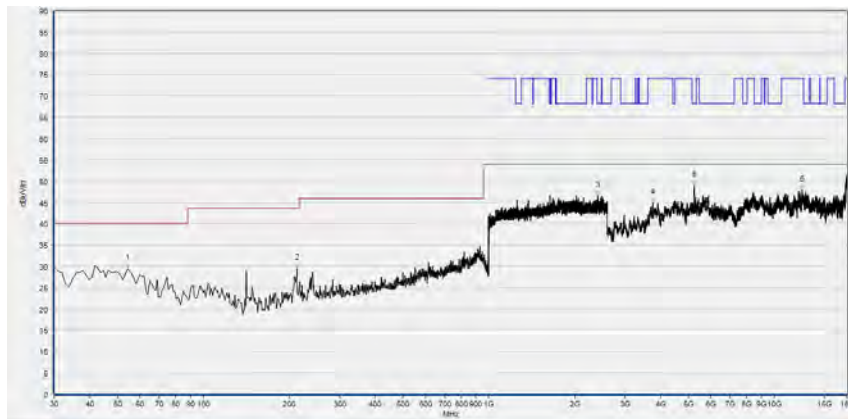
Note 2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

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.

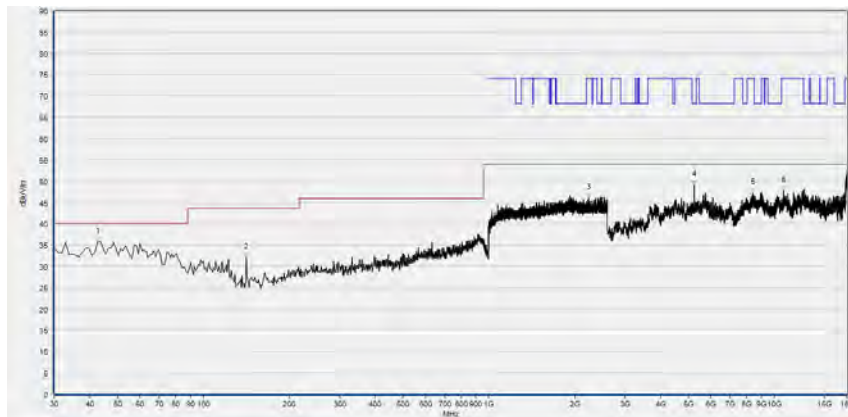
**802.11a Mode**

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
54.250	29.55	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
212.360	29.50	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2414.933	46.51	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
3764.240	44.98	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5233.400	49.00	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12526.840	47.95	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

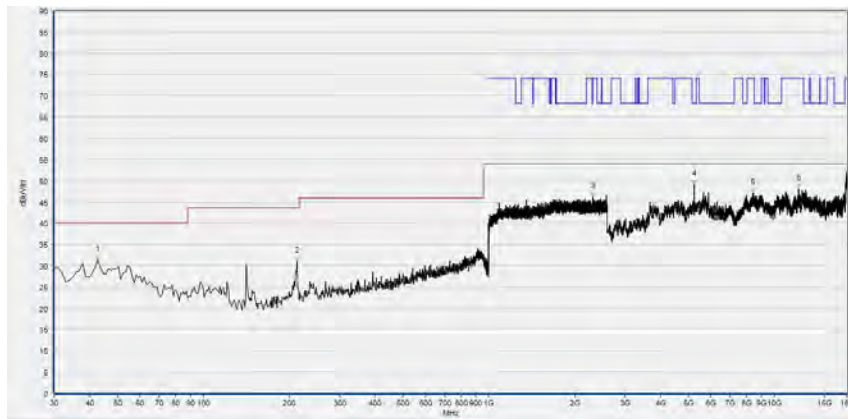


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
42.610	35.63	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
141.550	32.08	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2232.533	46.07	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5236.480	49.09	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8424.280	47.28	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10805.120	47.81	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

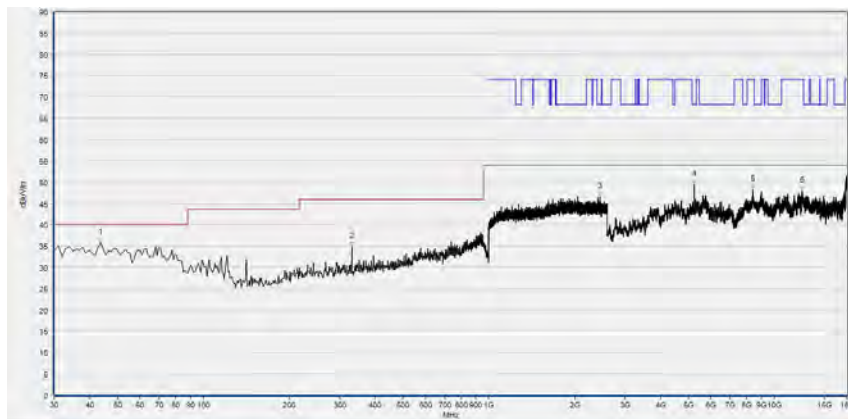


Plot for Channel 44



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
42.610	31.37	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
212.360	31.01	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2316.800	46.20	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5233.400	49.13	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8415.040	47.11	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12166.480	48.07	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

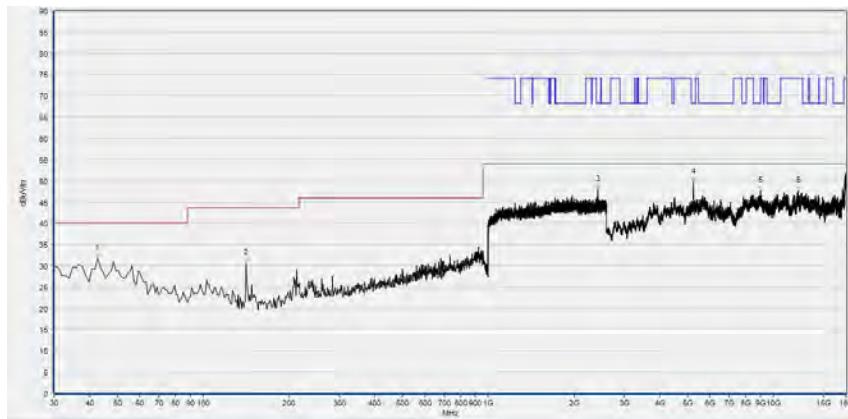
(Antenna Horizontal, 30MHz to 18GHz)



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
43.580	35.68	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
331.670	34.87	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2448.533	46.51	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5233.400	49.45	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8393.480	48.19	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12526.840	47.86	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

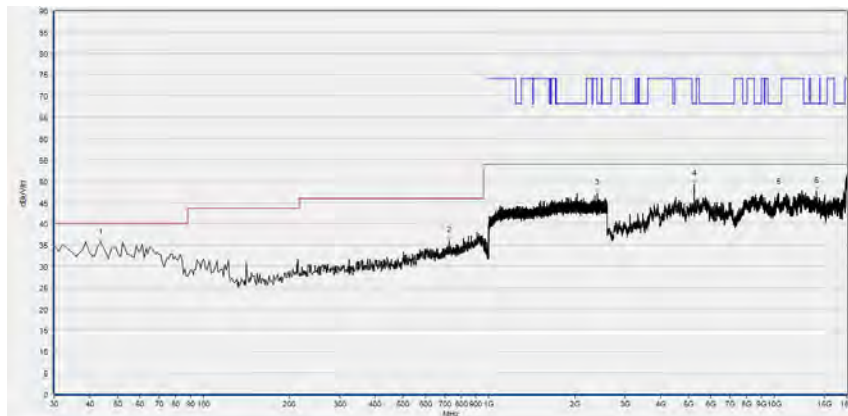
(Antenna Vertical, 30MHz to 18GHz)

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
42.610	31.68	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
141.550	30.49	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2418.667	48.00	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5233.400	49.56	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8994.080	47.56	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12206.520	47.63	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

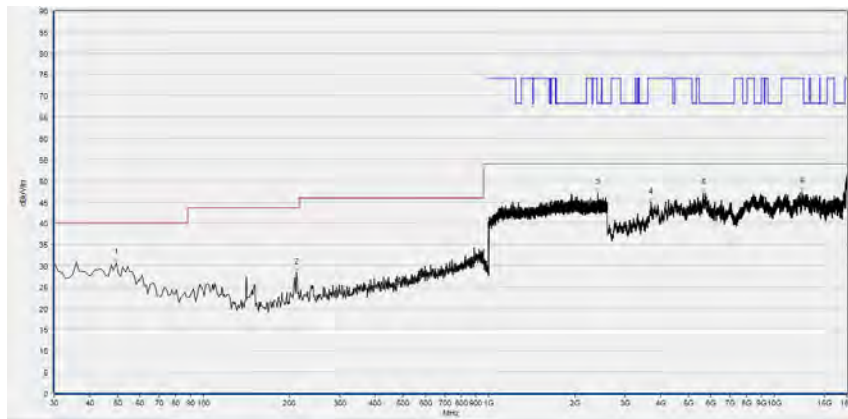
(Antenna Horizontal, 30MHz to 18GHz)



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
43.580	35.60	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
725.490	36.04	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2401.600	47.13	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5233.400	49.29	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
10352.360	47.18	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
14076.080	47.56	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

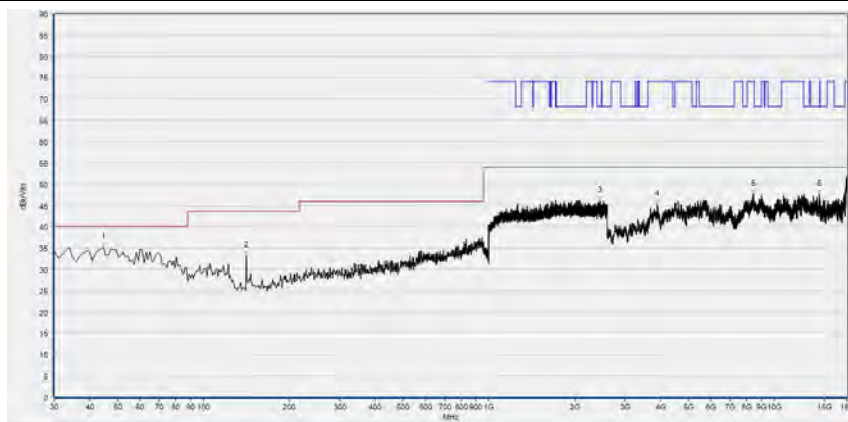
(Antenna Vertical, 30MHz to 18GHz)

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
49.400	30.63	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
211.390	28.29	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2412.267	47.13	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
3699.560	44.87	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5652.280	47.15	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12542.240	47.36	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

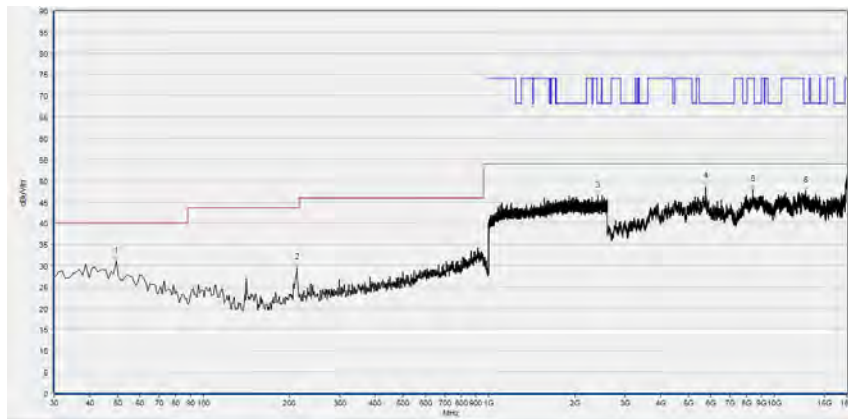
(Antenna Horizontal, 30MHz to 18GHz)



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
44.550	35.26	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
141.550	33.16	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2450.667	46.09	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
3896.680	45.26	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8448.920	47.55	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14414.880	47.58	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

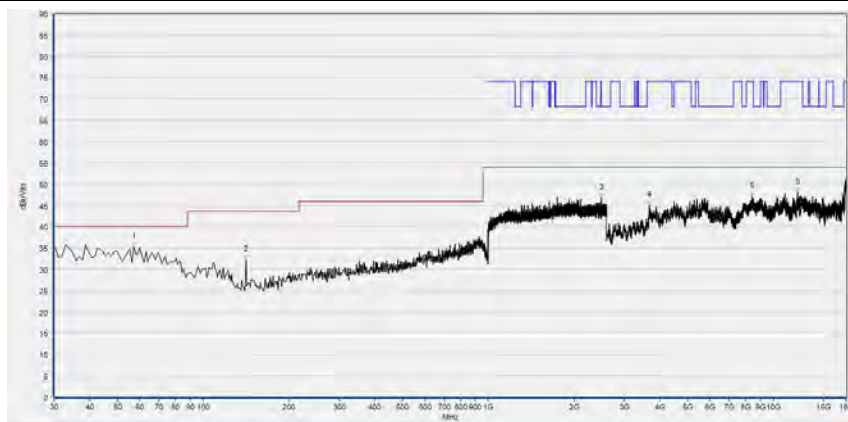
(Antenna Vertical, 30MHz to 18GHz)

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
49.400	30.93	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
212.360	29.43	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2408.000	46.34	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5747.760	48.63	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8421.200	47.96	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12896.440	47.63	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

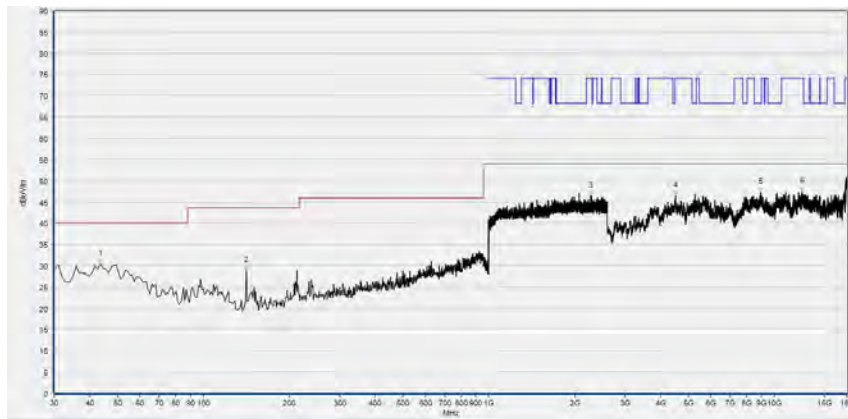
(Antenna Horizontal, 30MHz to 18GHz)



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
57.160	35.27	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
141.550	32.11	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2499.200	46.68	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3671.840	45.08	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8411.960	47.10	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12166.480	48.13	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

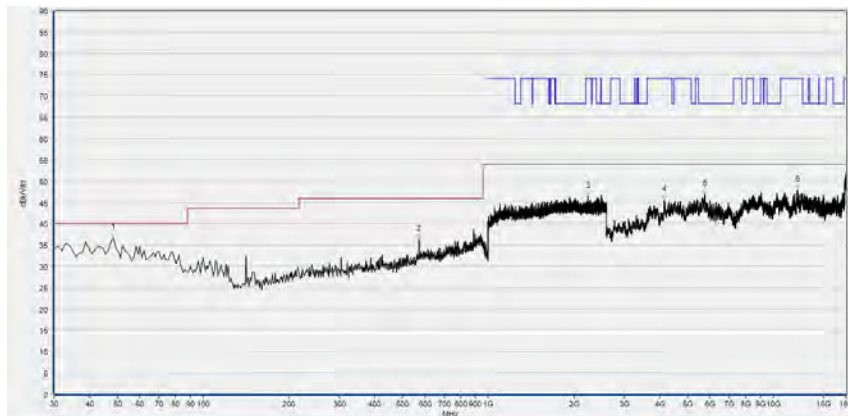
(Antenna Vertical, 30MHz to 18GHz)

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
43.580	30.28	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
141.550	28.88	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2272.533	46.46	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4503.440	46.37	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8975.600	47.19	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12554.560	47.45	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

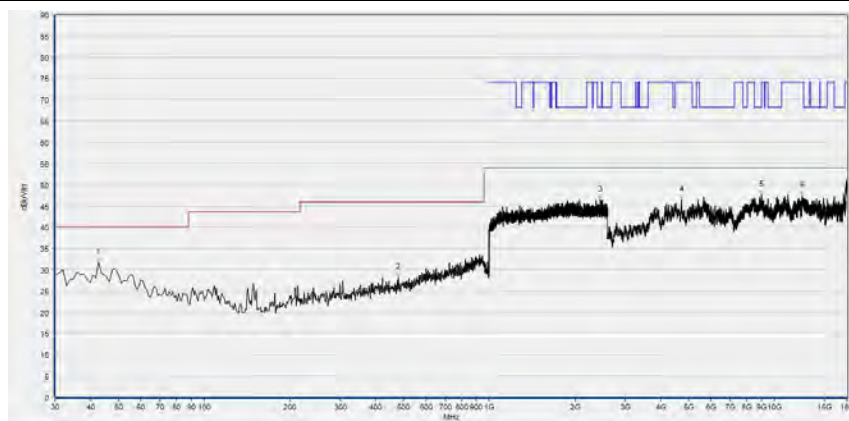


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
48.430	36.67	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
571.260	36.37	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2236.800	46.46	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4140.000	45.65	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5741.600	46.87	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12188.040	47.91	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

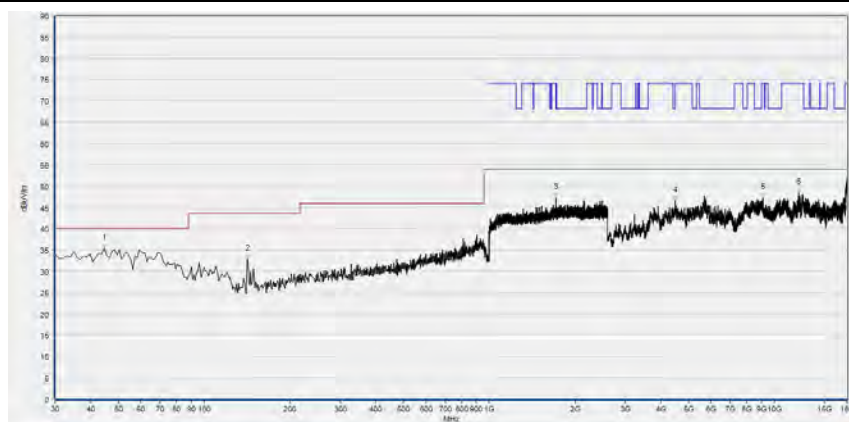


Plot for Channel 100



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
42.610	31.72	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
481.050	28.12	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2456.533	46.46	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4715.960	46.43	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9000.240	47.53	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12499.120	47.36	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

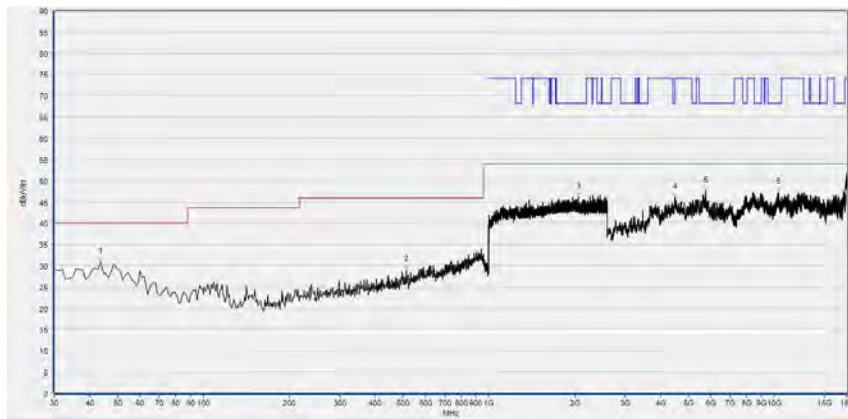
(Antenna Horizontal, 30MHz to 18GHz)



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
44.550	35.34	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
142.520	32.81	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1714.667	47.28	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
4488.040	46.51	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
9138.840	47.27	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12151.080	48.47	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

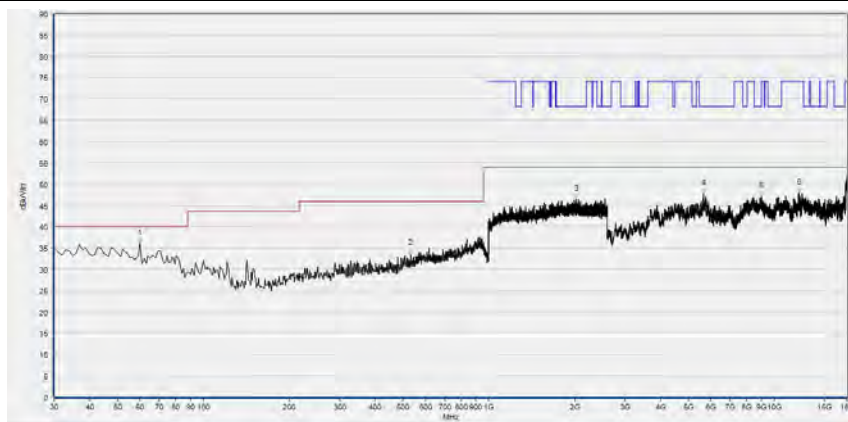
(Antenna Vertical, 30MHz to 18GHz)

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
43.580	30.87	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
514.030	29.08	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2056.000	46.25	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4478.800	46.08	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5750.840	47.65	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10340.040	47.30	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

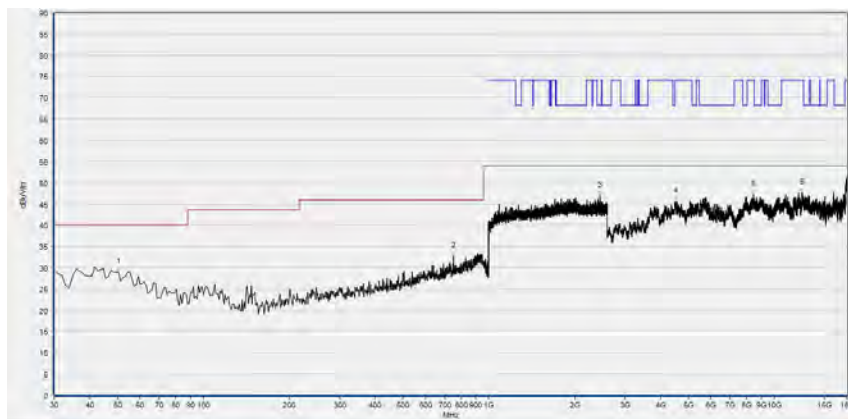


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
60.070	36.02	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
533.430	33.75	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2020.800	46.36	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5646.120	47.70	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
9006.400	47.15	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12209.600	47.90	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

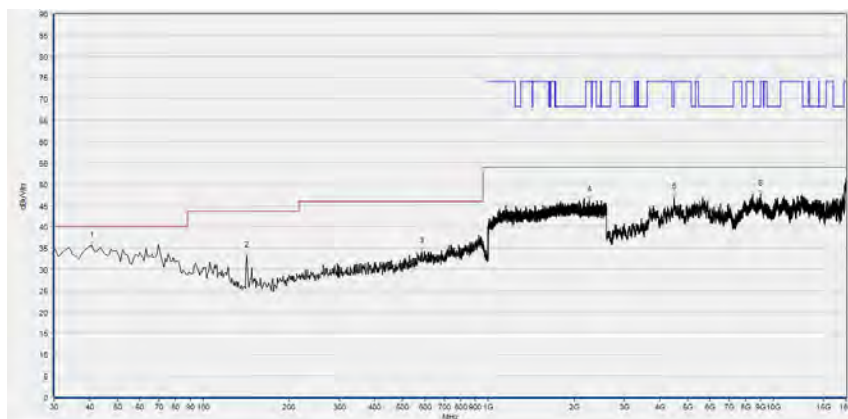


Plot for Channel 144



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
50.370	29.07	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
752.650	32.64	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2445.867	46.95	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4503.440	45.64	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8482.800	47.02	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12508.360	47.59	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

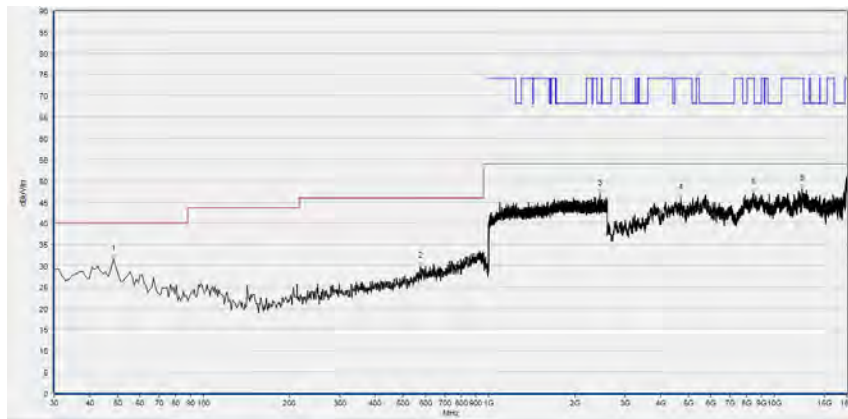
(Antenna Horizontal, 30MHz to 18GHz)



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
40.670	35.48	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
142.520	33.13	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
581.930	34.12	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2260.800	46.29	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4475.720	46.93	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8994.080	47.54	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

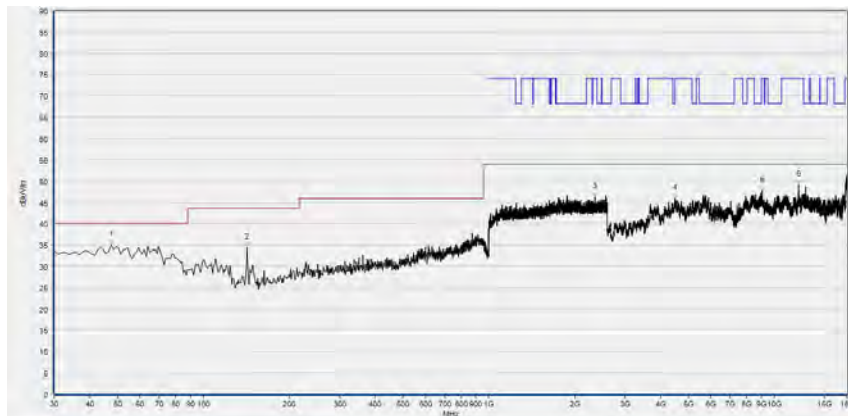
(Antenna Vertical, 30MHz to 18GHz)

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
48.430	31.46	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
576.110	29.85	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2451.200	46.91	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4712.880	45.99	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8448.920	47.04	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12542.240	48.05	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

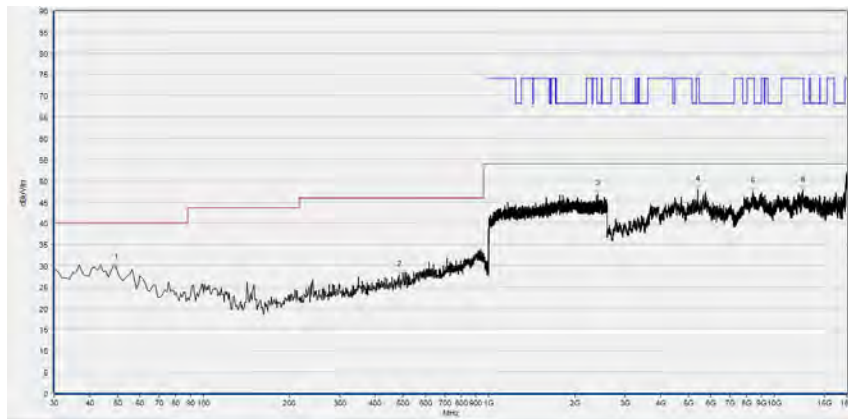
(Antenna Horizontal, 30MHz to 18GHz)



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
47.460	35.04	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
142.520	34.33	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2360.000	46.25	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4500.360	45.84	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9061.840	47.72	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12157.240	49.14	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

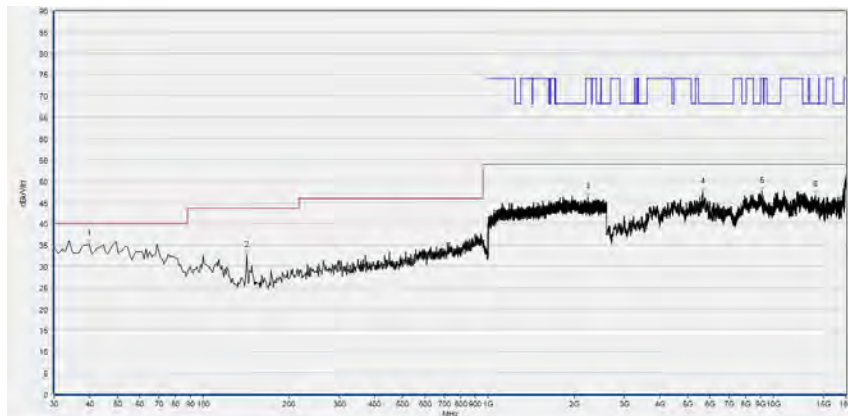
(Antenna Vertical, 30MHz to 18GHz)

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
49.400	29.50	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
483.960	27.76	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2412.800	46.93	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5402.800	47.89	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8421.200	47.47	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12576.120	47.73	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

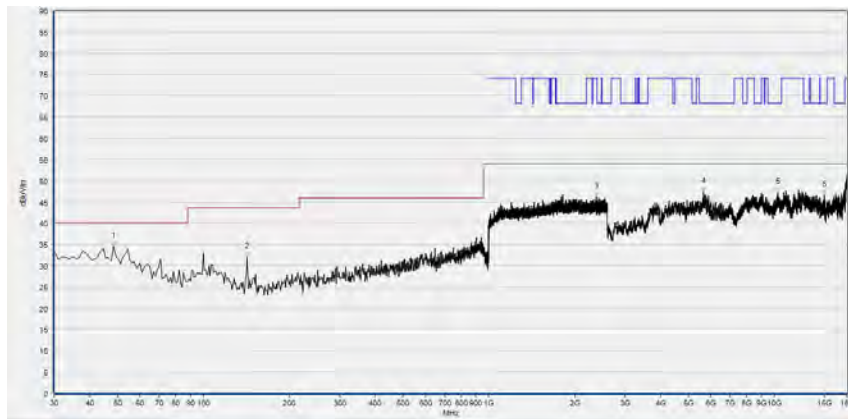
(Antenna Horizontal, 30MHz to 18GHz)



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
39.700	35.19	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
142.520	32.47	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2232.000	46.18	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5646.120	47.35	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
9092.640	47.56	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14020.640	46.80	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

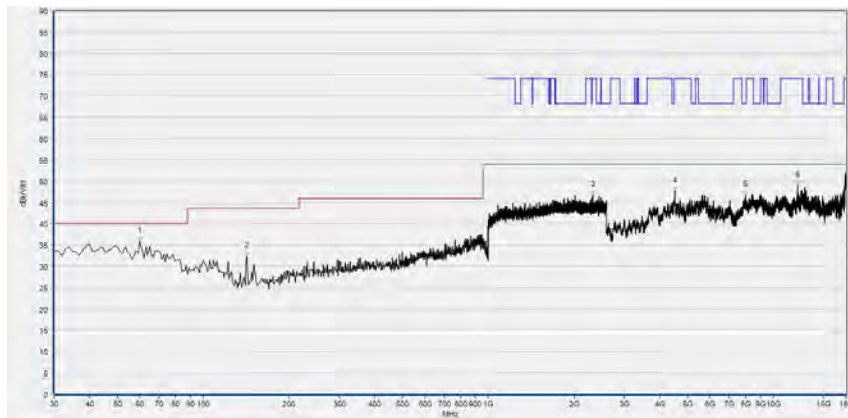
(Antenna Vertical, 30MHz to 18GHz)

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
48.430	34.54	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
142.520	32.07	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2375.467	46.18	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5643.040	47.39	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10306.160	47.21	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
15009.320	46.59	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

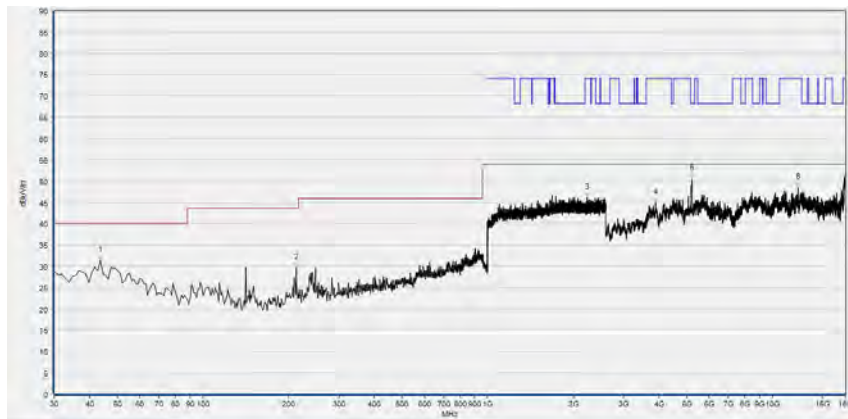


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
60.070	35.83	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
142.520	32.32	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2331.200	46.76	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4503.440	47.53	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7968.440	46.81	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12157.240	48.89	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

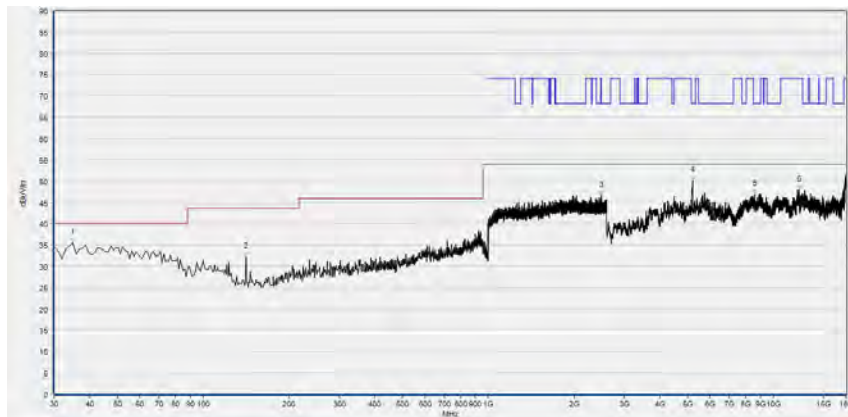
**802.11n (HT40) mode**

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
43.580	31.30	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
212.360	29.64	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2231.467	46.07	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3878.200	44.85	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5202.600	50.47	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12298.920	48.47	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

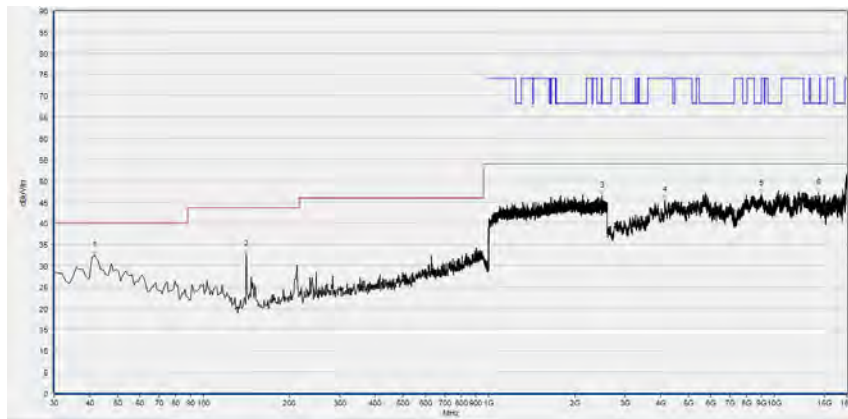
(Antenna Horizontal, 30MHz to 18GHz)



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
34.850	35.50	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
141.550	32.15	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2498.133	46.67	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5199.520	50.09	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8618.320	46.92	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12289.680	47.93	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

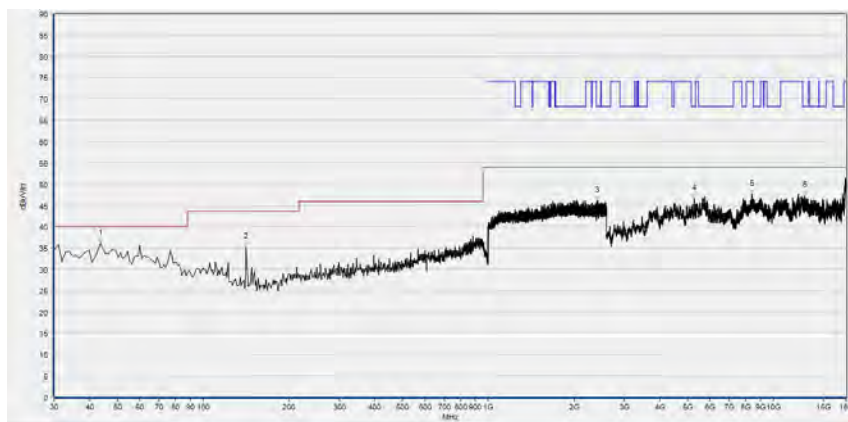
(Antenna Vertical, 30MHz to 18GHz)

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
41.640	32.32	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
141.550	32.69	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2488.533	46.37	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4146.160	45.35	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9021.800	46.98	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14322.480	47.05	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

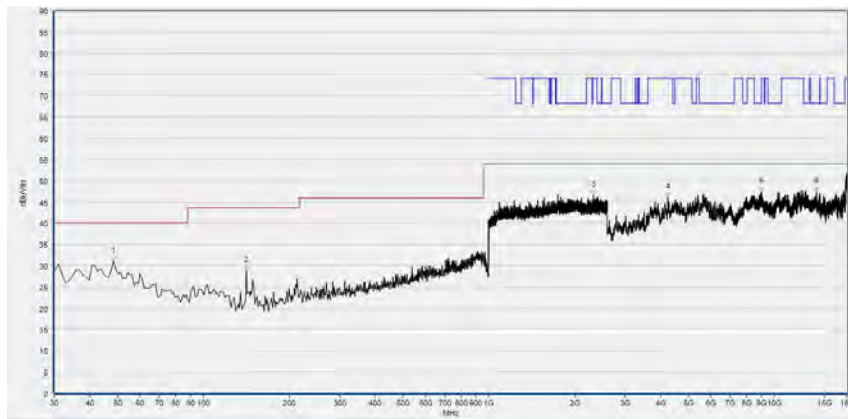
(Antenna Horizontal, 30MHz to 18GHz)



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
43.580	36.00	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
141.550	35.12	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2410.667	46.14	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5288.840	46.52	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8421.200	47.55	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12887.200	47.26	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

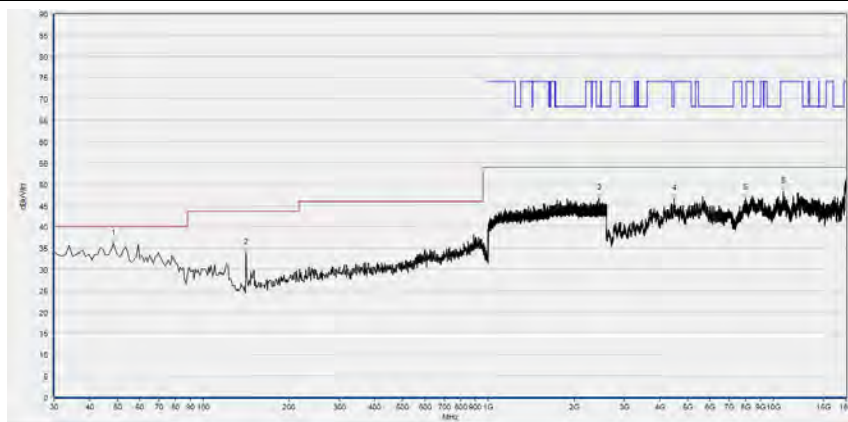
(Antenna Vertical, 30MHz to 18GHz)

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
48.430	30.97	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
141.550	28.76	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2330.133	46.64	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4235.480	46.17	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9003.320	47.51	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14088.400	47.35	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

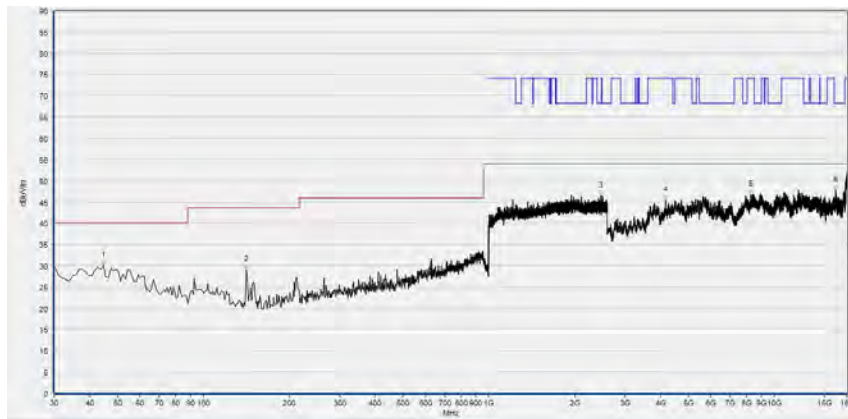
(Antenna Horizontal, 30MHz to 18GHz)



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
48.430	35.98	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
141.550	33.86	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2443.733	46.83	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4491.120	46.63	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8002.320	46.78	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
10817.440	48.33	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

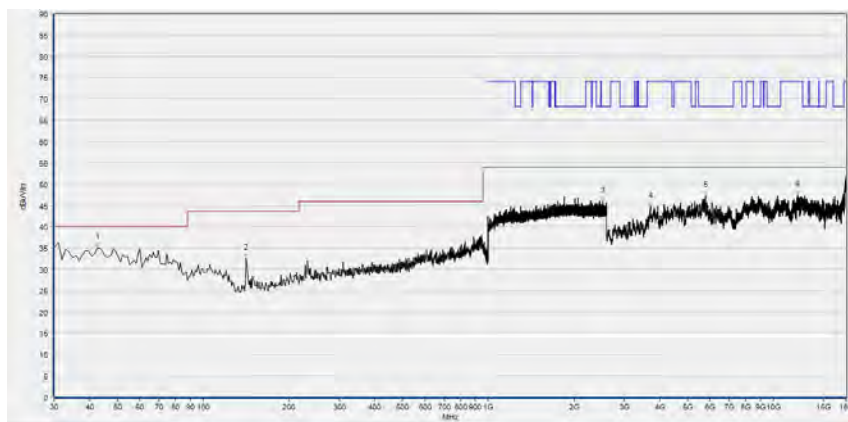
(Antenna Vertical, 30MHz to 18GHz)

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
44.550	30.08	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
141.550	28.97	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2459.733	46.49	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4155.400	45.43	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8251.800	46.70	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
16413.800	47.74	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

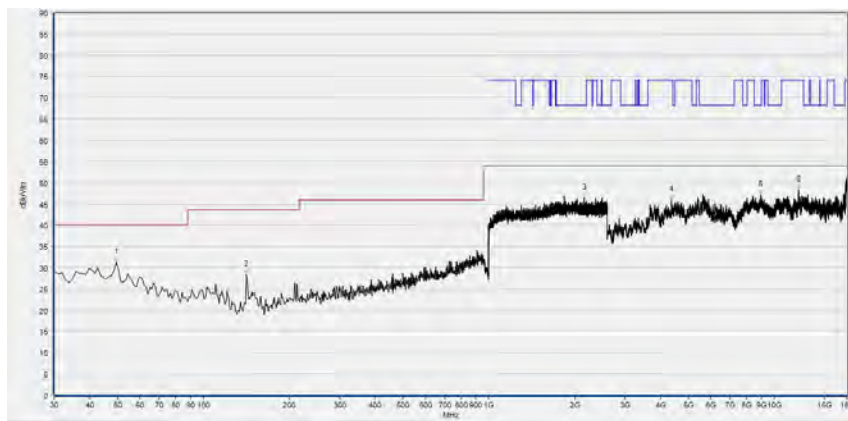
(Antenna Horizontal, 30MHz to 18GHz)



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
42.610	35.04	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
141.550	32.49	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2520.000	45.84	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
3705.720	44.69	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5769.320	47.20	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12135.680	47.38	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

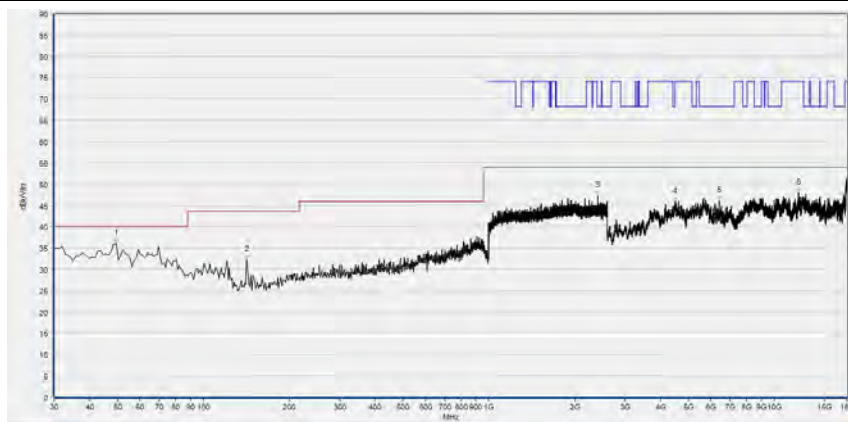
(Antenna Vertical, 30MHz to 18GHz)

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
49.400	31.14	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
141.550	28.36	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2162.667	46.51	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4361.760	45.87	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8987.920	47.08	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12154.160	48.19	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

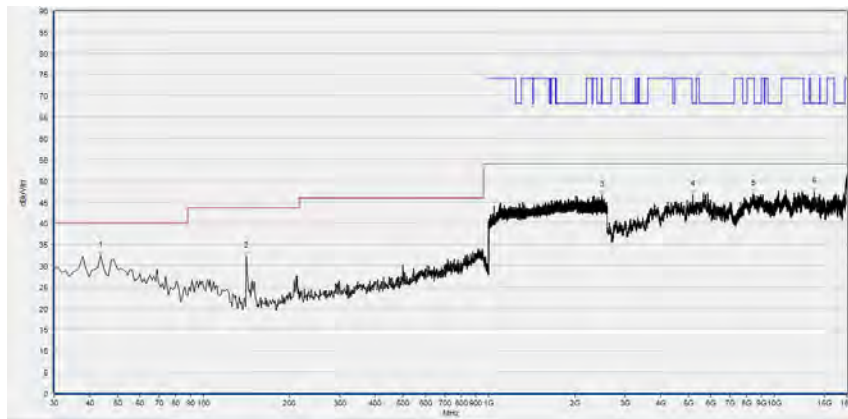
(Antenna Horizontal, 30MHz to 18GHz)



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
49.400	36.01	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
142.520	32.17	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2412.267	47.20	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4481.880	45.70	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
6416.120	46.02	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12141.840	47.95	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

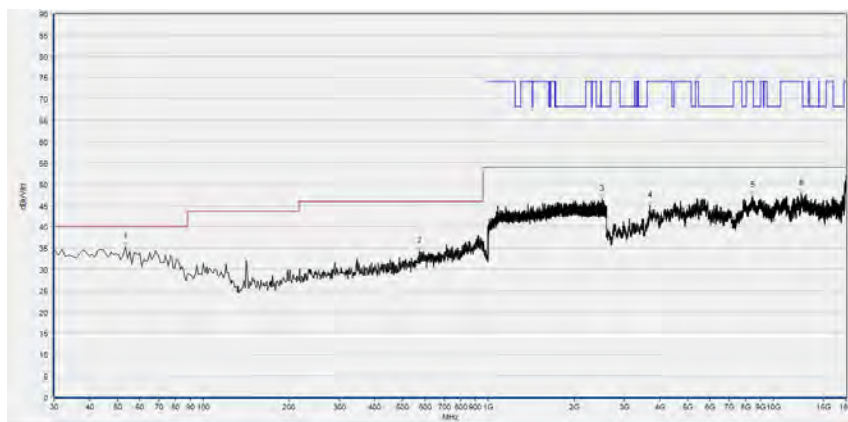
(Antenna Vertical, 30MHz to 18GHz)

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
43.580	32.34	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
141.550	32.20	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2490.667	46.60	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5184.120	46.84	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8445.840	46.87	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13774.240	47.35	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

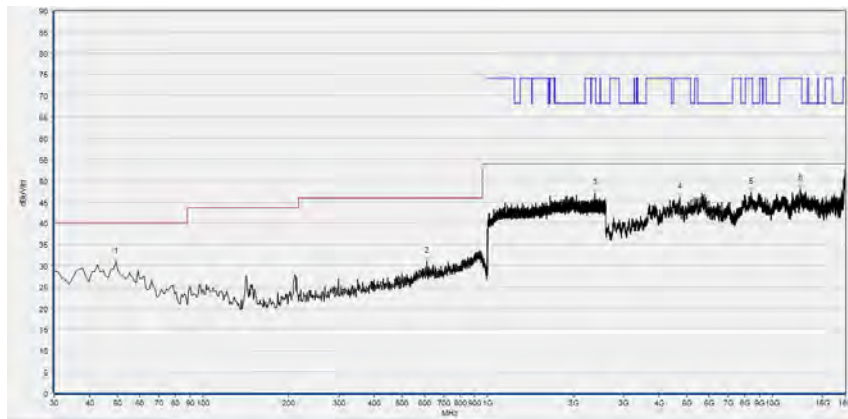
(Antenna Horizontal, 30MHz to 18GHz)



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
53.280	35.20	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
575.140	34.21	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2510.400	46.38	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
3699.560	44.93	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8455.080	47.23	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12517.600	47.71	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

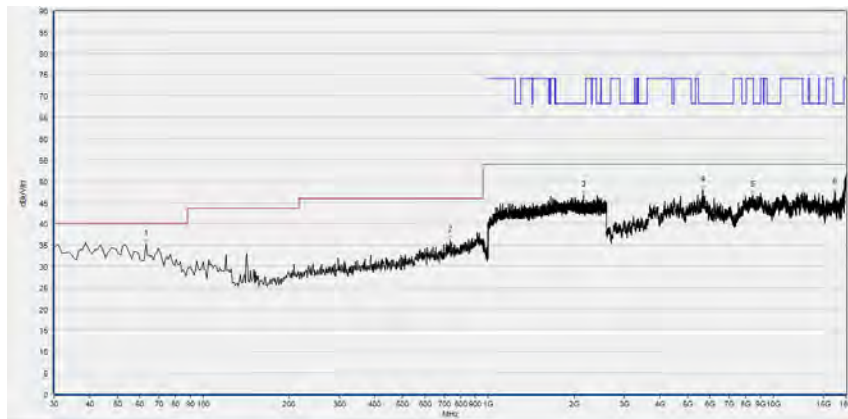
(Antenna Vertical, 30MHz to 18GHz)

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
49.400	30.86	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
612.000	30.93	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2381.867	47.02	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4722.120	46.09	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8408.880	47.20	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12483.720	48.04	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

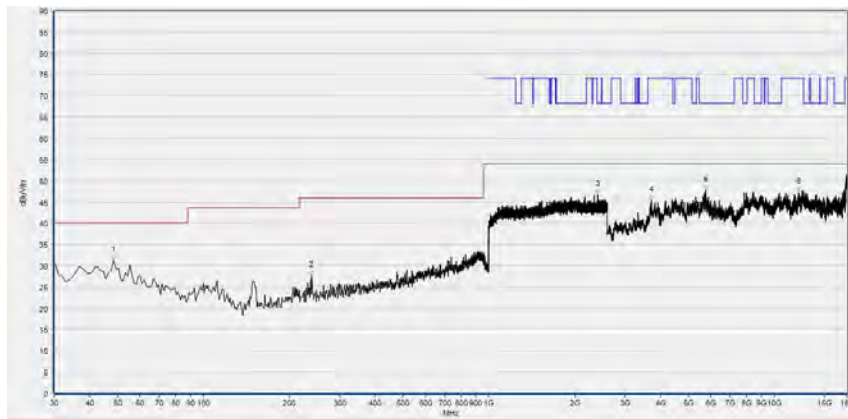
(Antenna Horizontal, 30MHz to 18GHz)



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
62.980	35.17	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
734.220	36.09	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2160.000	46.71	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5652.280	48.00	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8439.680	46.82	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
16398.400	47.39	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

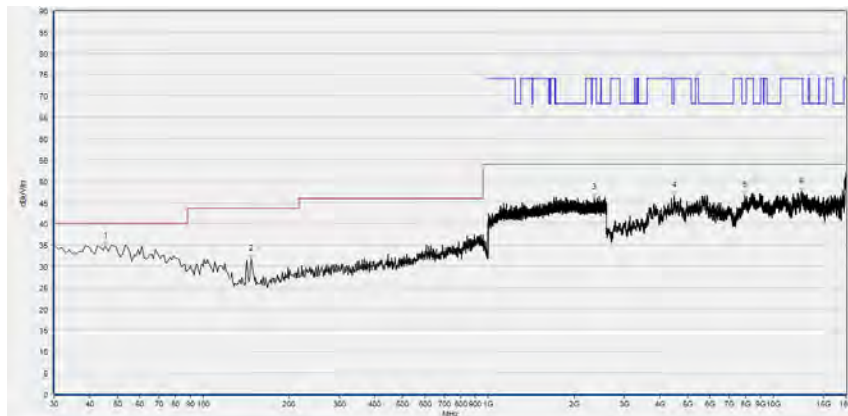
(Antenna Vertical, 30MHz to 18GHz)

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
48.430	31.10	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
239.520	27.62	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2405.333	46.76	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
3721.120	45.40	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5744.680	47.80	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12144.920	47.20	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

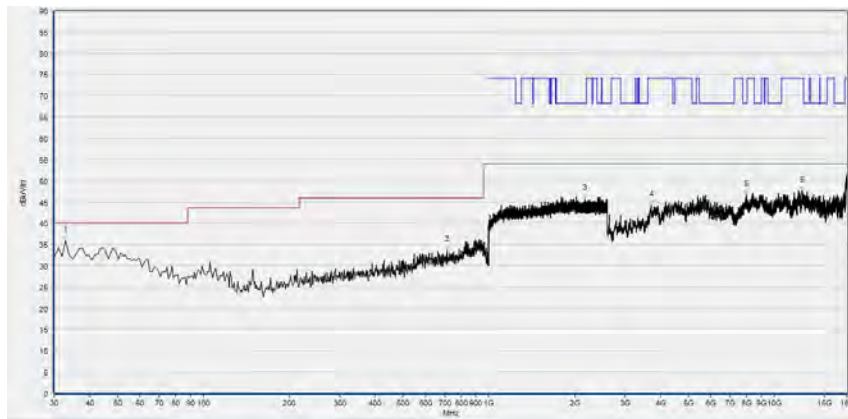
(Antenna Horizontal, 30MHz to 18GHz)



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
45.520	34.62	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
147.370	31.62	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2354.667	46.09	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4500.360	46.56	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7953.040	46.58	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12508.360	47.51	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

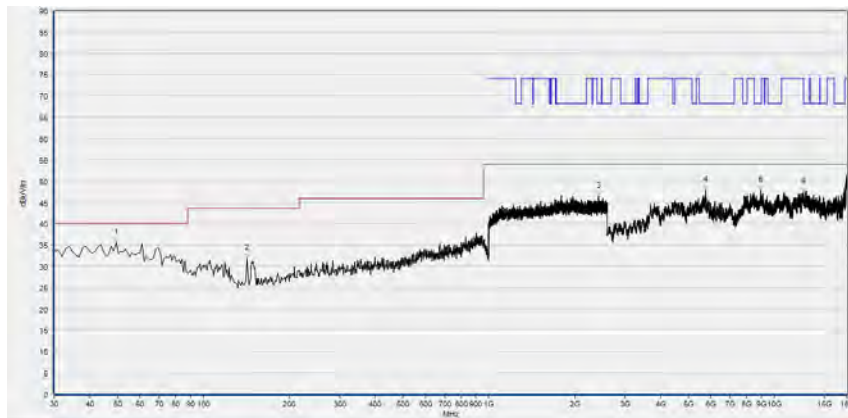
(Antenna Vertical, 30MHz to 18GHz)

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
32.910	35.93	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
715.790	33.71	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2166.933	45.72	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
3702.640	44.26	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8002.320	46.74	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12536.080	47.56	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

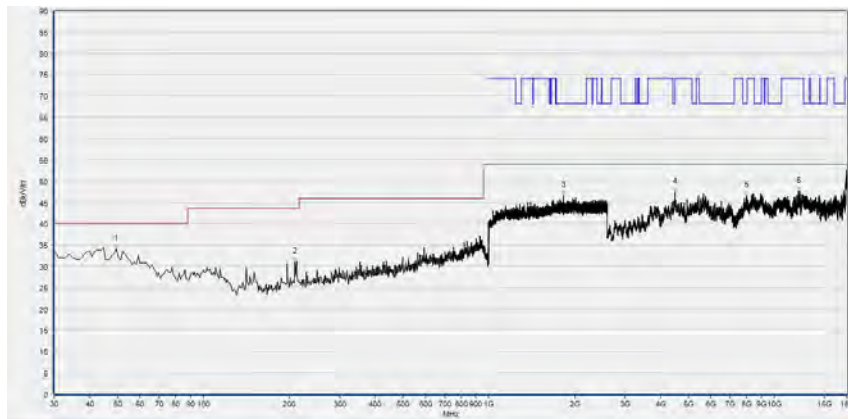


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
49.400	35.50	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
142.520	31.88	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2426.667	46.40	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5744.680	47.93	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8975.600	47.78	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12637.720	47.41	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

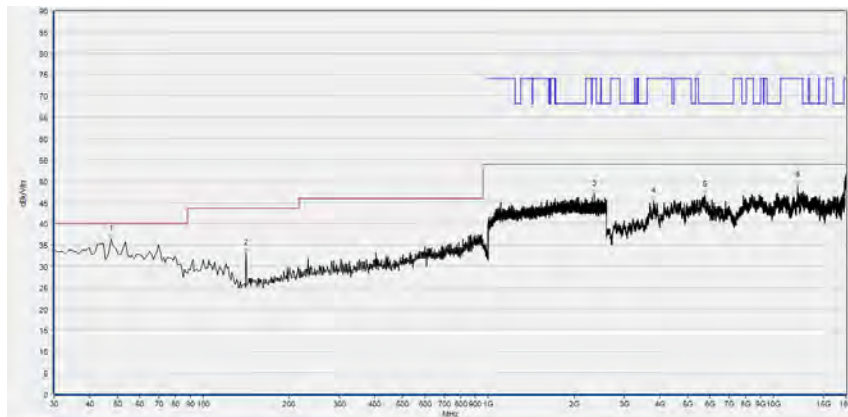
**802.11ac (VHT80) Mode**

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
49.400	33.96	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
209.450	31.00	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1822.933	46.53	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4491.120	47.43	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
7968.440	46.51	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12148.000	47.52	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

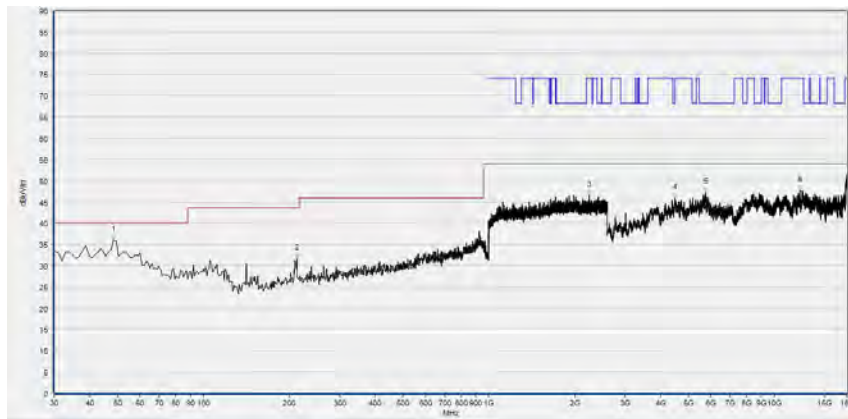
(Antenna Horizontal, 30MHz to 18GHz)



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
47.460	36.31	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
141.550	33.06	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2354.667	46.92	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3795.040	45.30	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5750.840	46.77	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12188.040	48.89	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

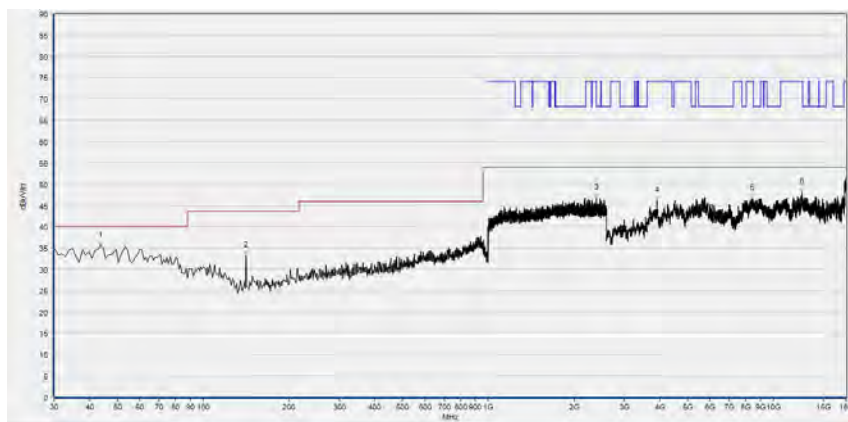
(Antenna Vertical, 30MHz to 18GHz)

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
48.430	35.96	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
212.360	31.69	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2243.200	46.56	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4500.360	45.90	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5753.920	47.21	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12286.600	47.73	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

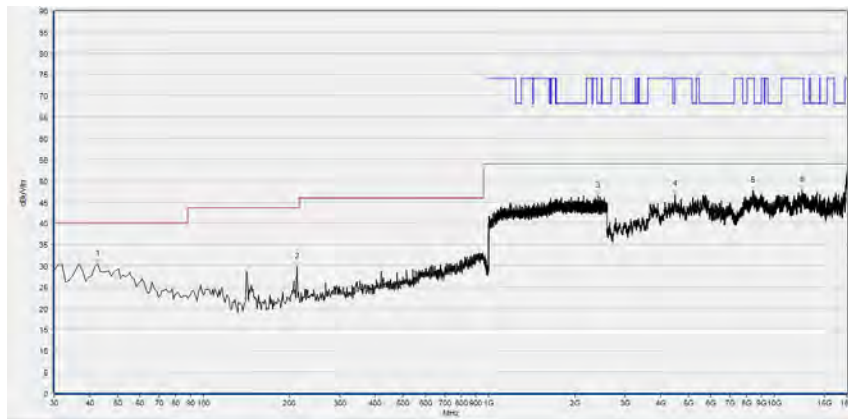
(Antenna Horizontal, 30MHz to 18GHz)



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
43.580	35.48	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
141.550	33.26	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2389.333	46.76	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3899.760	46.06	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8405.800	46.55	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12613.080	48.18	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

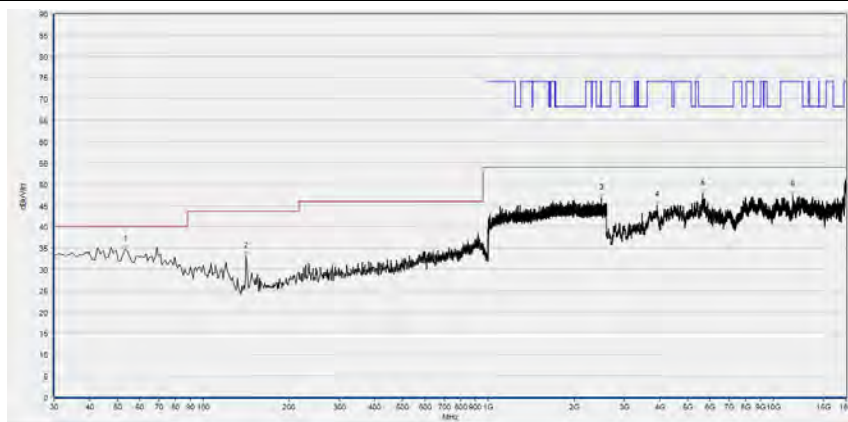
(Antenna Vertical, 30MHz to 18GHz)

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
42.610	30.28	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
212.360	29.72	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2406.400	46.50	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4500.360	46.75	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8415.040	47.67	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12517.600	47.72	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

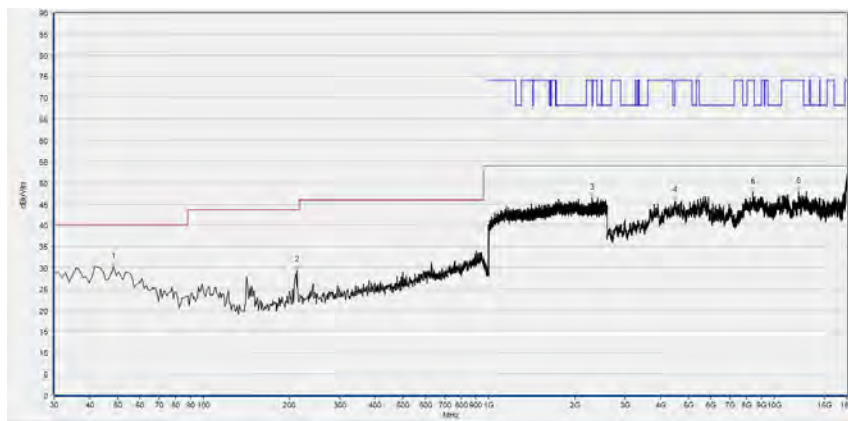
(Antenna Horizontal, 30MHz to 18GHz)



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
53.280	34.70	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
141.550	33.05	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2488.000	46.83	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3899.760	45.14	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5652.280	47.69	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
11716.800	47.36	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

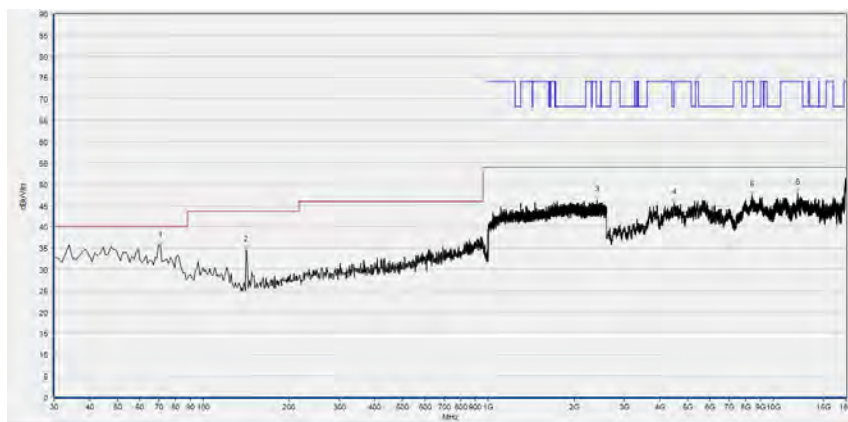
(Antenna Vertical, 30MHz to 18GHz)

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
48.430	30.14	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
213.330	29.28	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2294.400	46.49	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4481.880	45.79	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8396.560	47.72	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12151.080	47.97	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

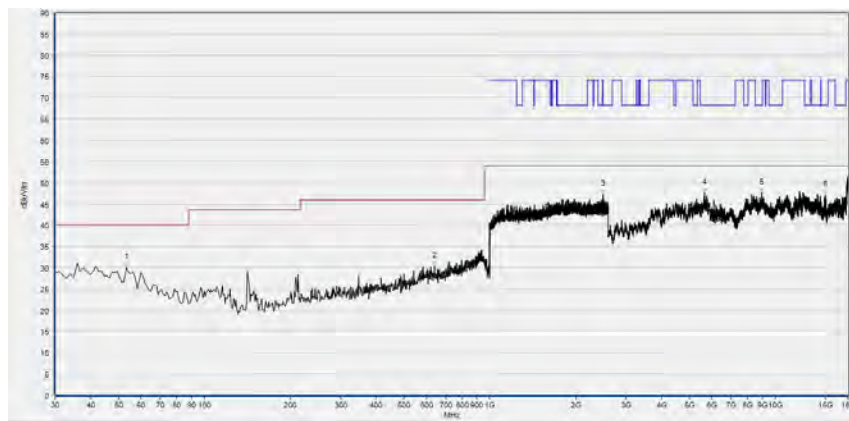
(Antenna Horizontal, 30MHz to 18GHz)



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
70.740	35.49	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
141.550	34.56	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2413.867	46.24	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4491.120	45.56	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8402.720	47.42	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12197.280	47.89	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

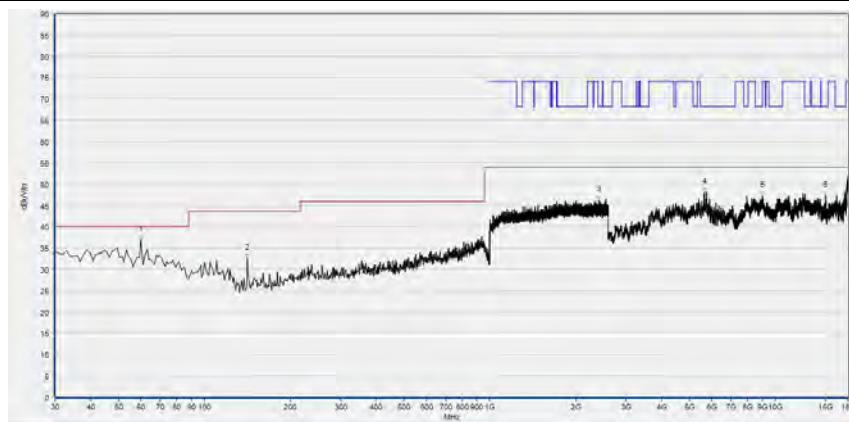
(Antenna Vertical, 30MHz to 18GHz)

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
53.280	30.08	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
639.160	30.30	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2497.600	47.33	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5664.600	47.58	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8975.600	47.57	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
14997.000	47.09	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

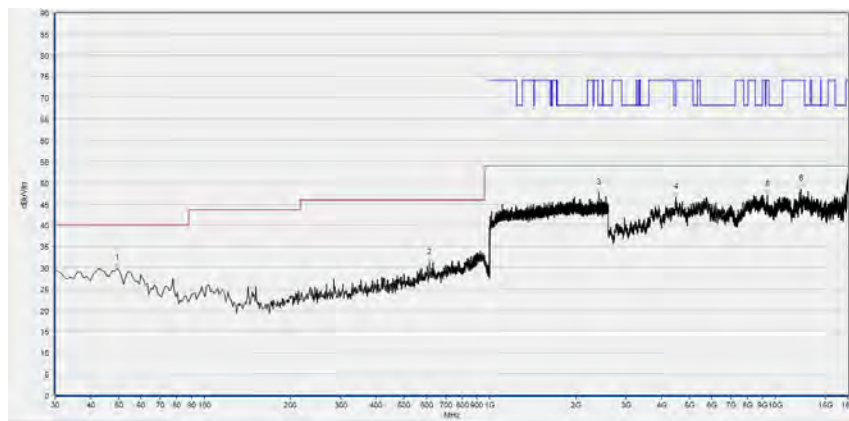
(Antenna Horizontal, 30MHz to 18GHz)



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
60.070	36.83	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
141.550	32.49	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2405.867	46.24	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5643.040	48.07	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
9009.480	47.24	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
15009.320	47.25	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

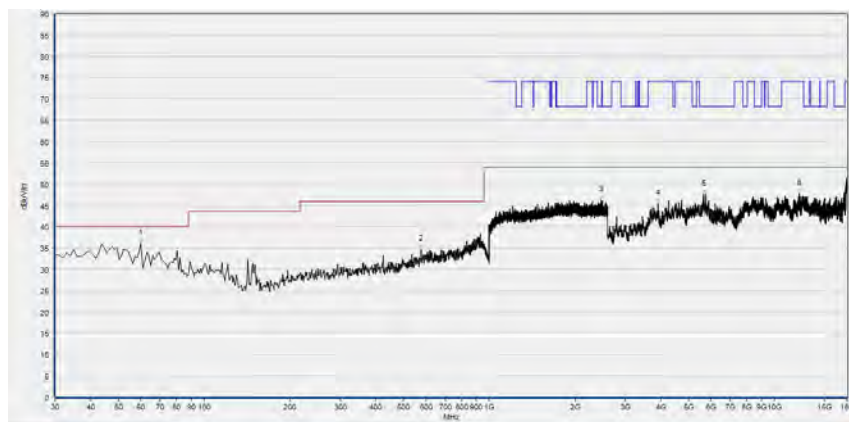
(Antenna Vertical, 30MHz to 18GHz)

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
49.400	29.88	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
614.910	31.09	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2414.933	47.53	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4481.880	46.59	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
9397.560	47.01	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12295.840	48.38	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
60.070	36.06	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
577.080	34.72	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2459.200	46.24	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
3909.000	45.38	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5664.600	47.66	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12203.440	47.79	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 (PSD)	$\pm 2.22\text{dB}$
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. Morlab Laboratory
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. Morlab Laboratory
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	2020.04.01	2021.03.31
USB Wideband Power Sensor	MY54210011	U2021XA	Agilent	2020.04.01	2021.03.31
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	2020.01.08	2021.01.07
				2020.10.26	2021.10.25

4.2 Conducted Emission Test Equipments

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Receiver	MY56400093	N9038A	KEYSIGHT	2020.03.26	2021.03.25
LISN	812744	NSLK 8127	Schwarzbeck	2020.03.26	2021.03.25
Pulse Limiter (10dB)	VTSD 9561 F-B #206	VTSD 9561-F	Schwarzbeck	2020.07.24	2021.07.23
Coaxial cable(BNC) (30MHz-26GHz)	CB01	EMC01	Morlab	N/A	N/A
Computer	DF2DR A01 DPC	VOSTRO 5370	DELL	N/A	N/A
PC Adapter	N/A	LA45NM1 40	LITEON	N/A	N/A

4.3 List of Software Used

Description	Manufacturer	Software Version
Test System	Tonscend	V2.6
Power Panel	Agilent	V3.8
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	2020.07.21	2021.07.20
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	2020.07.21	2021.07.20
18-26.5GHz pre-Amplifier	46732	S10M100L38 02	Tonscend	2020.07.21	2021.07.20
26-40GHz pre-Amplifier	56774	S40M400L40 02	Tonscend	2020.07.21	2021.07.20
Notch Filter	N/A	WRCG-5150-5350	Wainwright	2020.07.21	2021.07.20
Notch Filter	N/A	WRCG-5470-5725	Wainwright	2020.07.21	2021.07.20
Notch Filter	N/A	WRCG-5725-5850	Wainwright	2020.07.21	2021.07.20



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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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