



(Channel 6, 802.11n (HT20), ANT 0)



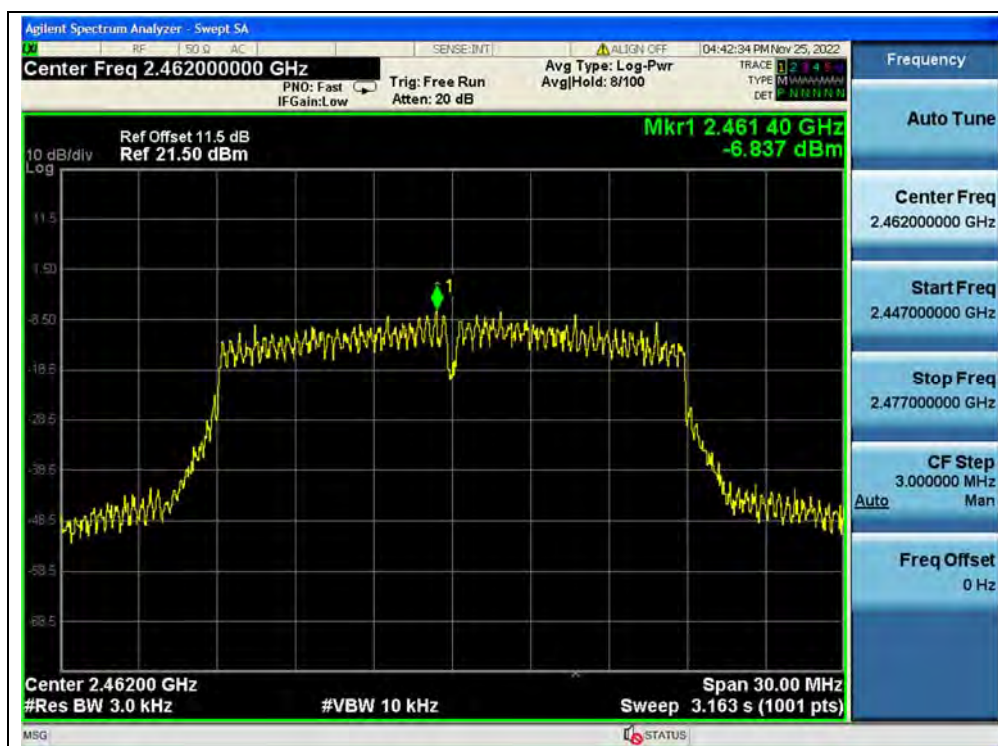
(Channel 11, 802.11n (HT20), ANT 0)



(Channel 1, 802.11n (HT20), ANT 1)



(Channel 6, 802.11n (HT20), ANT 1)



(Channel 11, 802.11n (HT20), ANT 1)



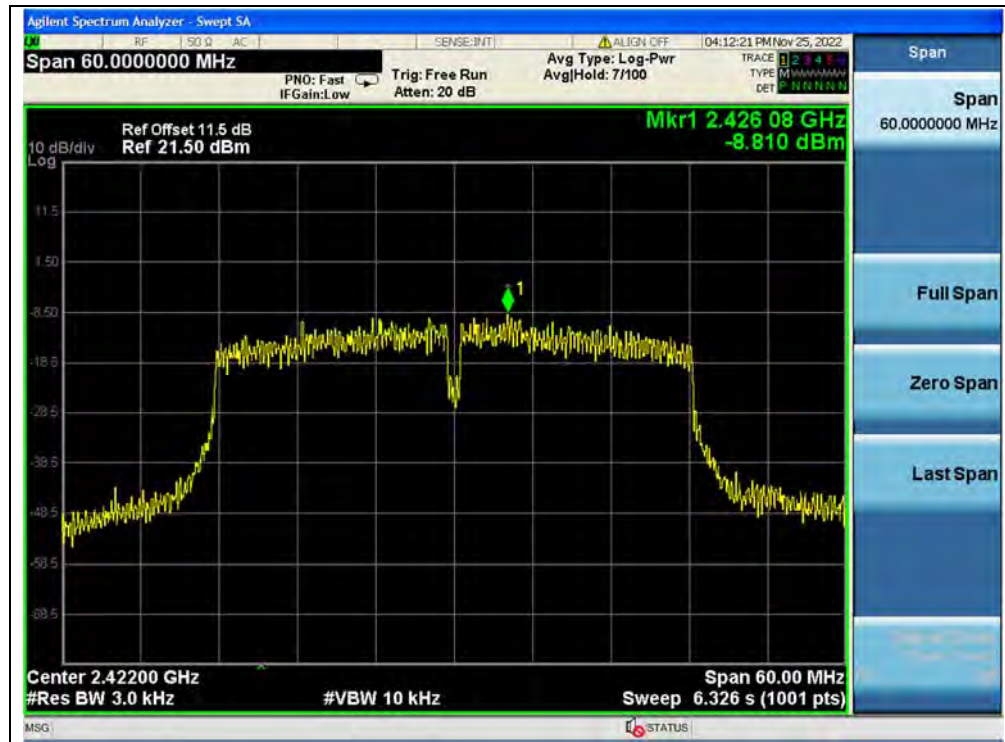
802.11n (HT40) Mode

A.Test Verdict:

Channel	Frequency (MHz)	Measured PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
		ANT 0	ANT 1			
3	2422	-8.81	-9.60	-6.18	8	PASS
6	2437	-9.11	-8.55	-5.81	8	PASS
9	2452	-8.63	-9.74	-6.14	8	PASS

Note: Directional gain = $2.79\text{dBi} + 10\log(2) = 5.80\text{dBi} < 6\text{dBi}$, so the power density limit is 8 dBm/3kHz.

B.Test Plot:



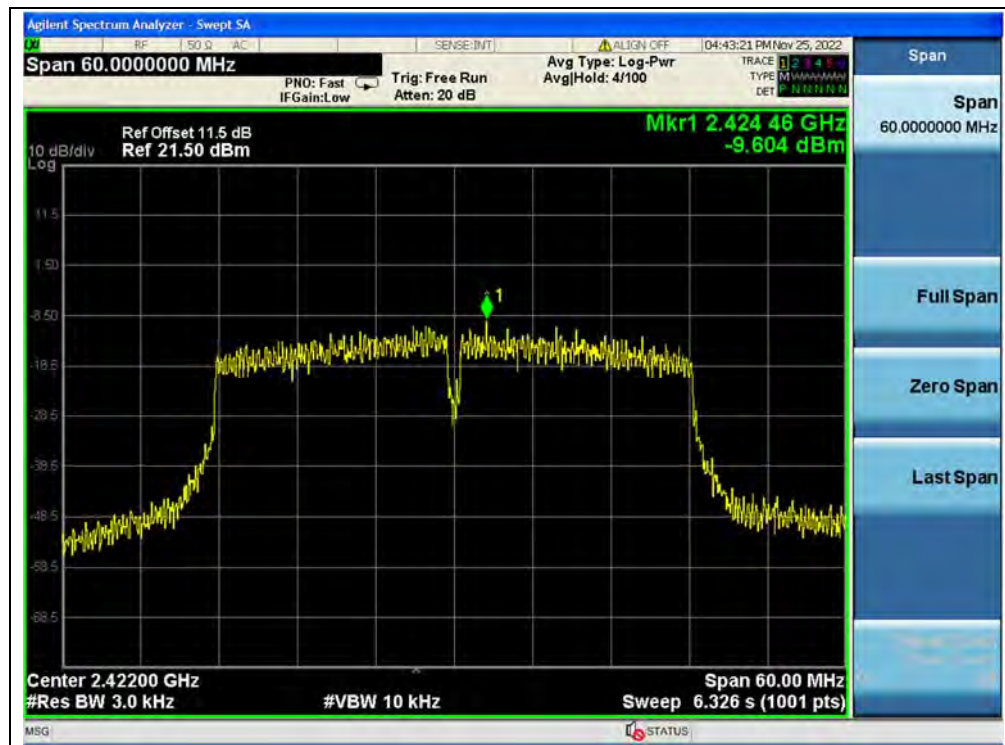
(Channel 3, 802.11n (HT40), ANT 0)



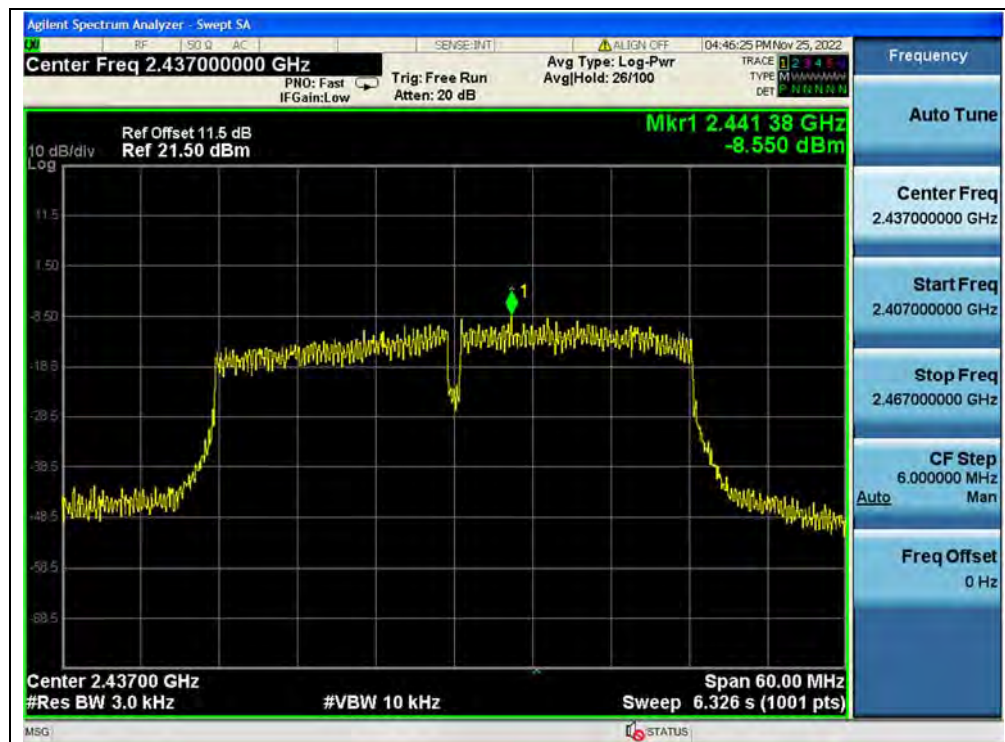
(Channel 6, 802.11n (HT40), ANT 0)



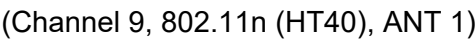
(Channel 9, 802.11n (HT40), ANT 0)



(Channel 3, 802.11n (HT40), ANT 1)



(Channel 6, 802.11n (HT40), ANT 1)





802.11ax (HEW20) Mode

A.Test Verdict:

Channel	Frequency (MHz)	Measured PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
		ANT 0	ANT 1			
1	2412	-6.83	-8.16	-4.43	8	PASS
6	2437	-5.79	-7.51	-3.56	8	PASS
11	2462	-6.68	-8.02	-4.29	8	PASS

Note: Directional gain = $2.79\text{dBi} + 10\log(2) = 5.80\text{dBi} < 6\text{dBi}$, so the power density limit is 8 dBm/3kHz.

B.Test Plot:



(Channel 1, 802.11ax (HEW20), ANT 0)



(Channel 6, 802.11ax (HEW20), ANT 0)



(Channel 11, 802.11ax (HEW20), ANT 0)



(Channel 1, 802.11ax (HEW20), ANT 1)



(Channel 6, 802.11ax (HEW20), ANT 1)



(Channel 11, 802.11ax (HEW20), ANT 1)



802.11ax (HEW20) RU26 Mode

A.Test Verdict:

Channel	Frequency (MHz)	Measured PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
		ANT 0	ANT 1			
1	2412	-2.03	-3.14	0.46	8	PASS
6	2437	-2.93	-2.63	0.23	8	PASS
11	2462	-2.78	-3.08	0.08	8	PASS

Note: Directional gain = $2.79\text{dBi} + 10\log(2) = 5.80\text{dBi} < 6\text{dBi}$, so the power density limit is 8 dBm/3kHz.

B.Test Plot:



(Channel 1, 802.11ax (HEW20) RU26, ANT 0)



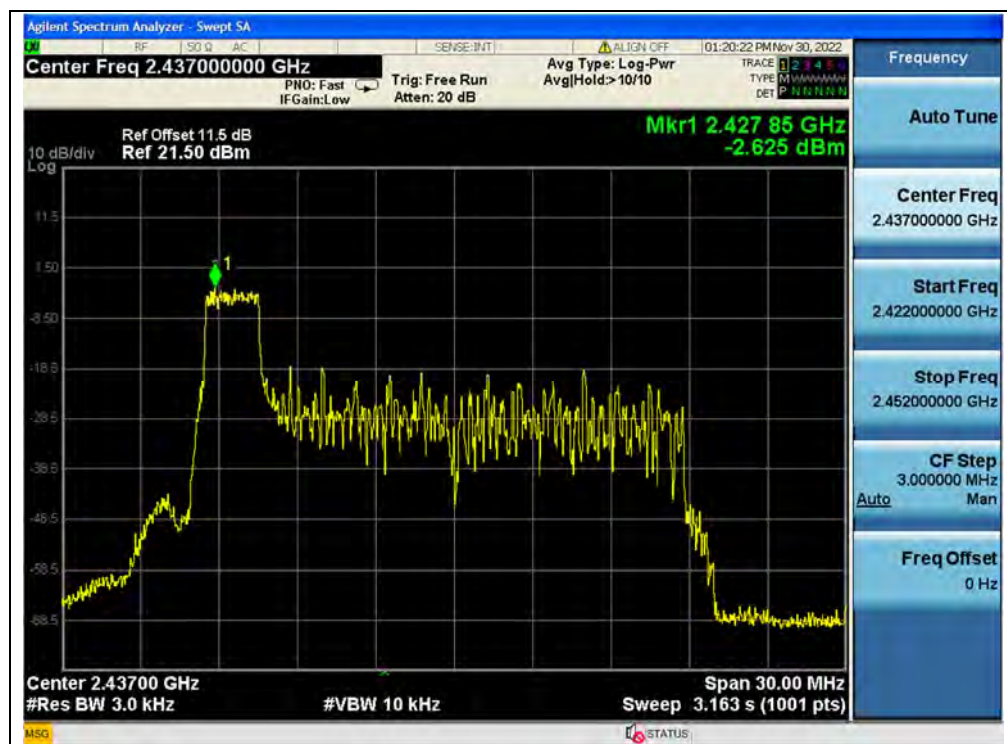
(Channel 6, 802.11ax (HEW20) RU26, ANT 0)



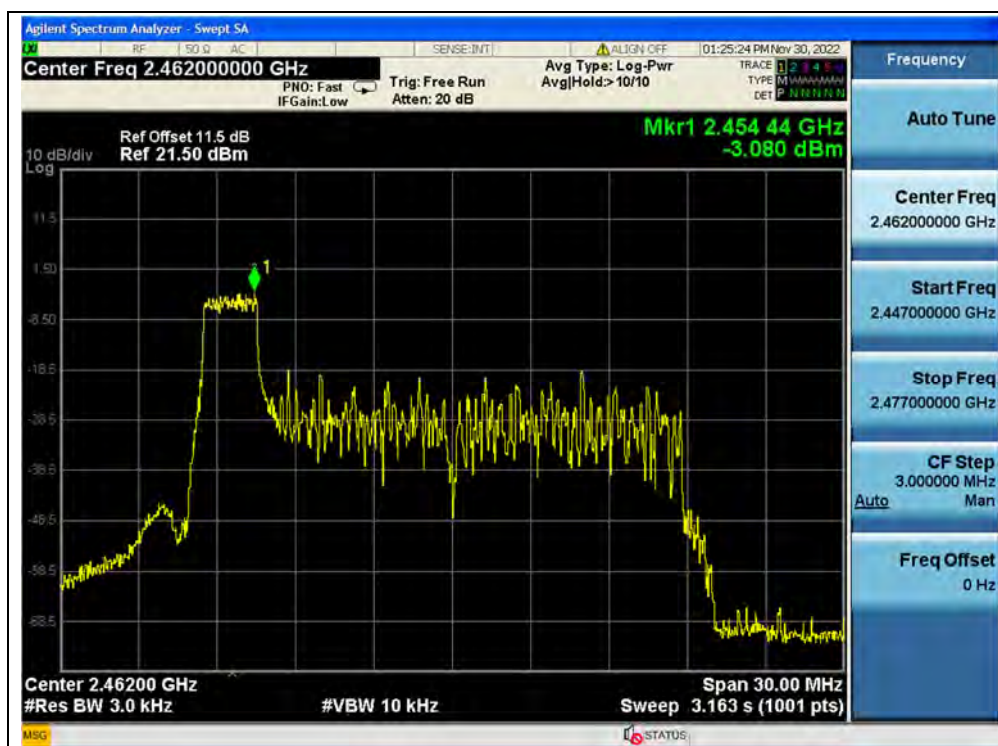
(Channel 11, 802.11ax (HEW20) RU26, ANT 0)



(Channel 1, 802.11ax (HEW20) RU26, ANT 1)



(Channel 6, 802.11ax (HEW20) RU26, ANT 1)



(Channel 11, 802.11ax (HEW20) RU26, ANT 1)



802.11ax (HEW20) RU52 Mode

A.Test Verdict:

Channel	Frequency (MHz)	Measured PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
		ANT 0	ANT 1			
1	2412	-3.22	-5.88	-1.34	8	PASS
6	2437	-5.34	-4.26	-1.76	8	PASS
11	2462	-3.24	-5.58	-1.24	8	PASS

Note: Directional gain = $2.79\text{dBi} + 10\log(2) = 5.80\text{dBi} < 6\text{dBi}$, so the power density limit is 8 dBm/3kHz.

B.Test Plot:



(Channel 1, 802.11ax (HEW20) RU52, ANT 0)



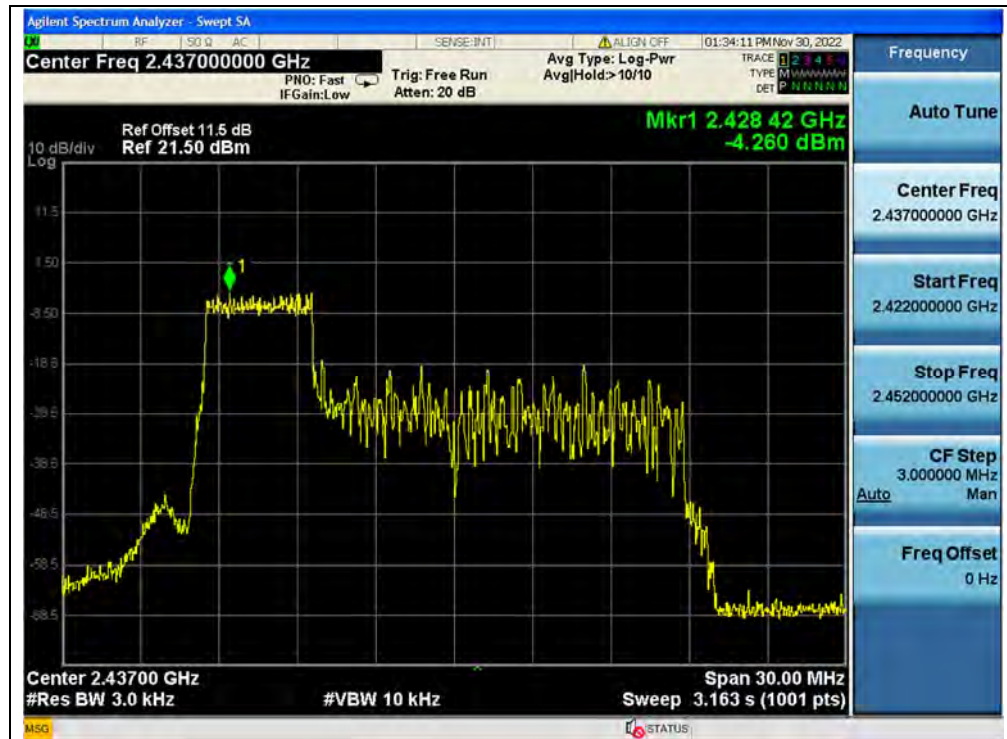
(Channel 6, 802.11ax (HEW20) RU52, ANT 0)



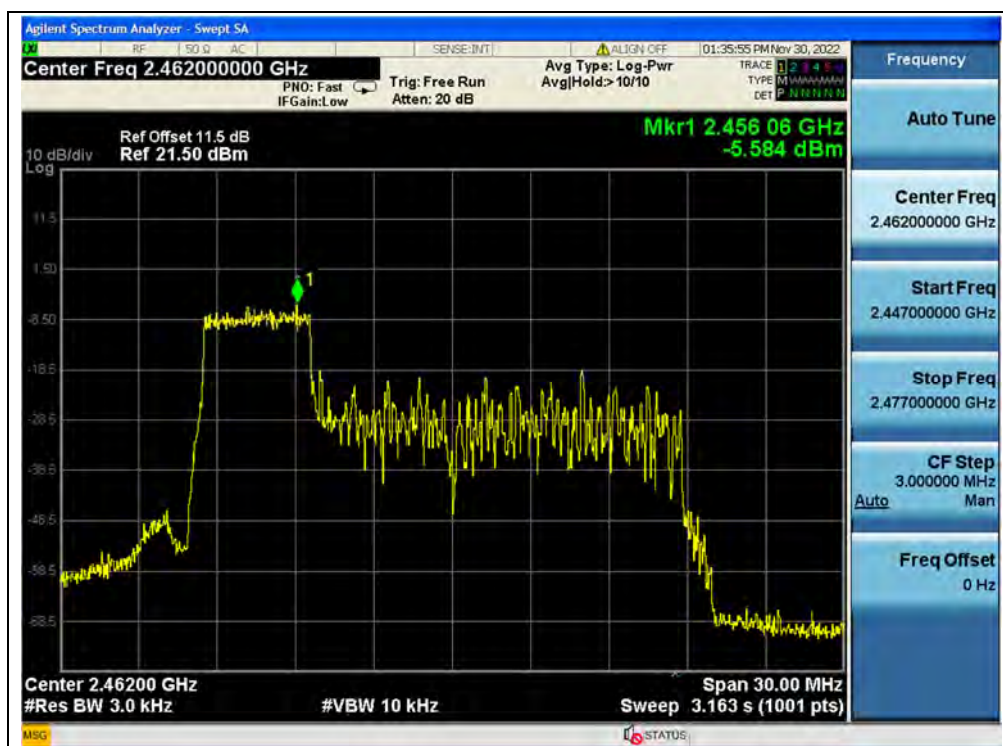
(Channel 11, 802.11ax (HEW20) RU52, ANT 0)



(Channel 1, 802.11ax (HEW20) RU52, ANT 1)



(Channel 6, 802.11ax (HEW20) RU52, ANT 1)



(Channel 11, 802.11ax (HEW20) RU52, ANT 1)



802.11ax (HEW20) RU106 Mode

A.Test Verdict:

Channel	Frequency (MHz)	Measured PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
		ANT 0	ANT 1			
1	2412	-6.36	-8.95	-4.45	8	PASS
6	2437	-7.81	-6.80	-4.27	8	PASS
11	2462	-6.35	-8.42	-4.25	8	PASS

Note: Directional gain = $2.79\text{dBi} + 10\log(2) = 5.80\text{dBi} < 6\text{dBi}$, so the power density limit is 8 dBm/3kHz.

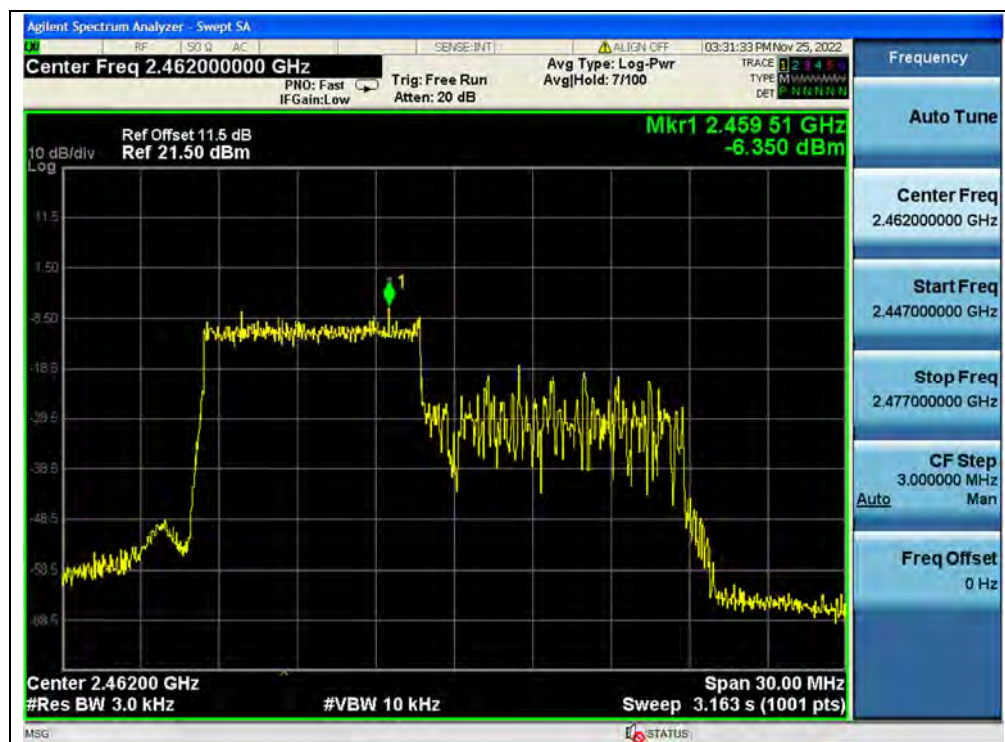
B.Test Plot:



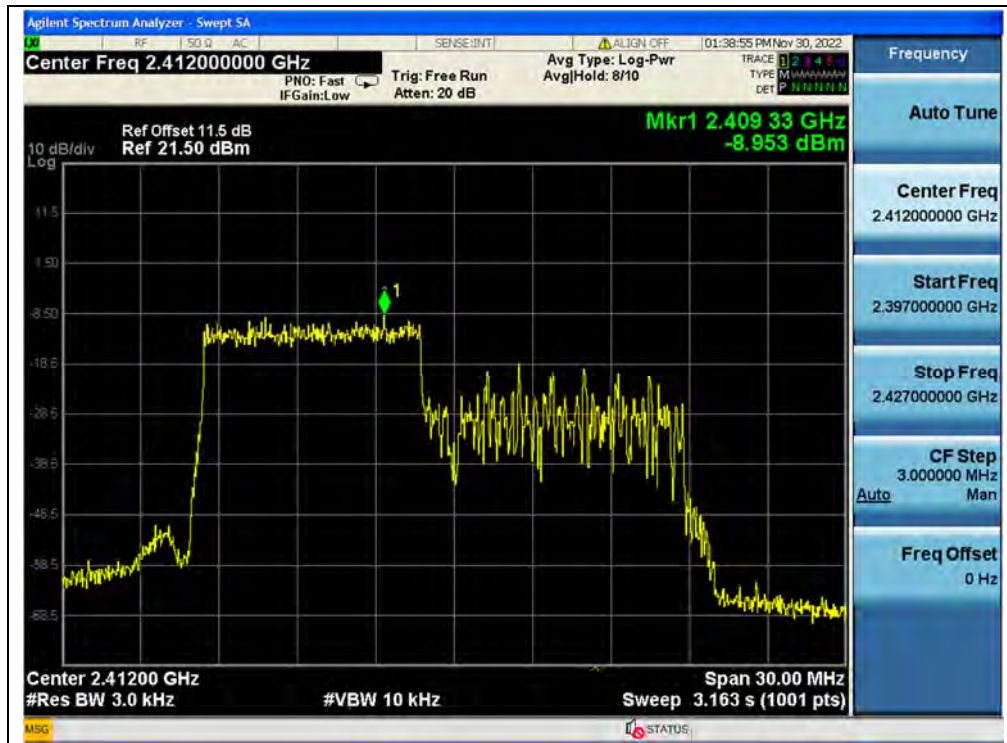
(Channel 1, 802.11ax (HEW20) RU106, ANT 0)



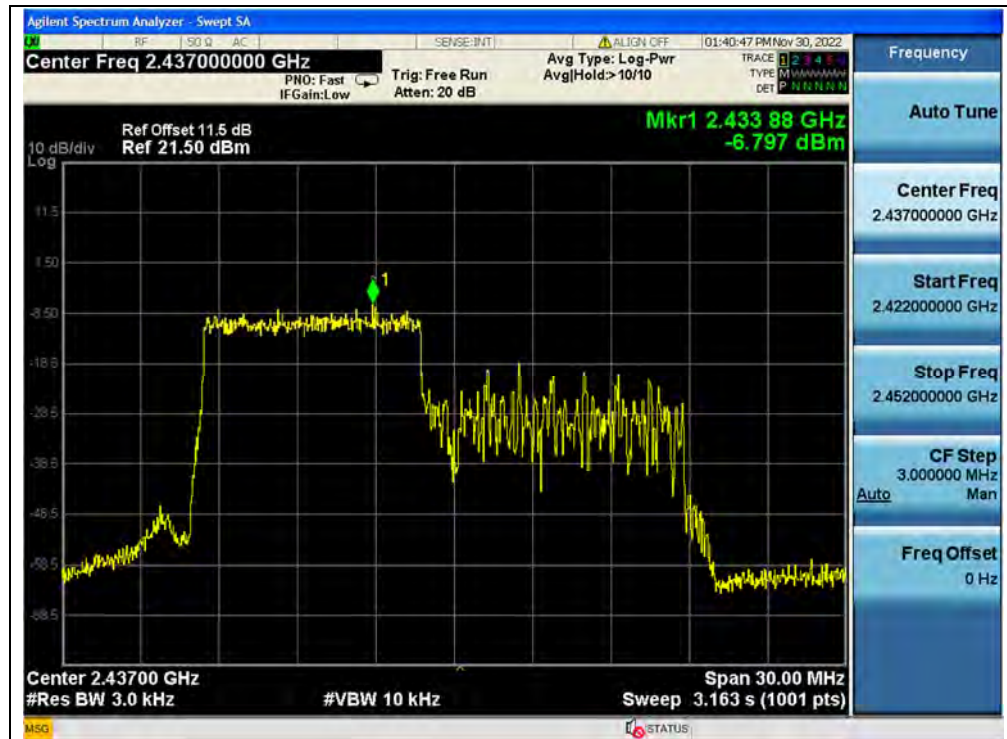
(Channel 6, 802.11ax (HEW20) RU106, ANT 0)



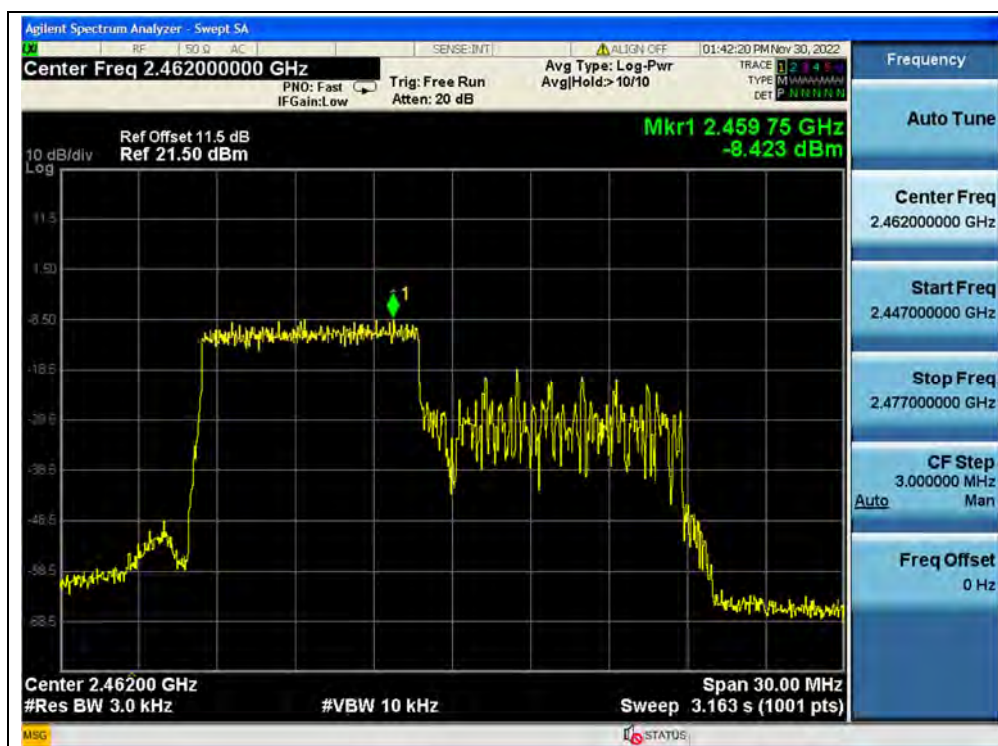
(Channel 11, 802.11ax (HEW20) RU106, ANT 0)



(Channel 1, 802.11ax (HEW20) RU106, ANT 1)



(Channel 6, 802.11ax (HEW20) RU106, ANT 1)



(Channel 11, 802.11ax (HEW20) RU106, ANT 1)



802.11ax (HEW40) Mode

A.Test Verdict:

Channel	Frequency (MHz)	Measured PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
		ANT 0	ANT 1			
3	2422	-10.65	-12.03	-8.28	8	PASS
6	2437	-9.37	-11.46	-7.28	8	PASS
9	2452	-9.62	-10.55	-7.05	8	PASS

Note: Directional gain = $2.79\text{dBi} + 10\log(2) = 5.80\text{dBi} < 6\text{dBi}$, so the power density limit is 8 dBm/3kHz.

B.Test Plot:



(Channel 3, 802.11ax (HEW40), ANT 0)



(Channel 6, 802.11ax (HEW40), ANT 0)



(Channel 9, 802.11ax (HEW40), ANT 0)



(Channel 3, 802.11ax (HEW40), ANT 1)



(Channel 6, 802.11ax (HEW40), ANT 1)



(Channel 9, 802.11ax (HEW40), ANT 1)

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).

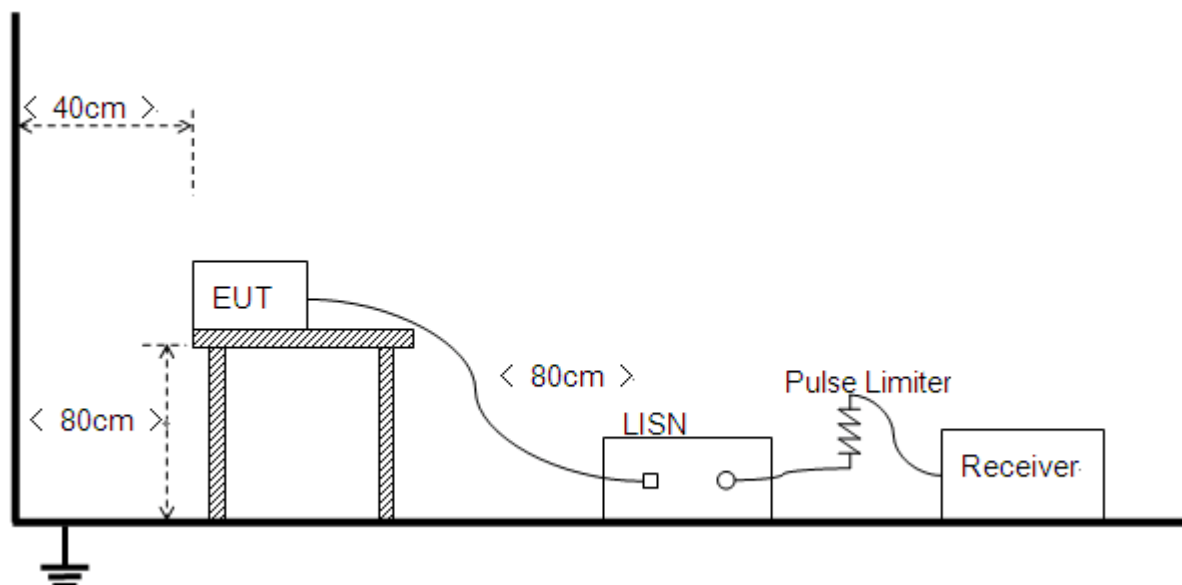
Frequency Range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

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 plots 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 + USB CABLE + WIFI TX

Test Voltage: AC 120V/60Hz

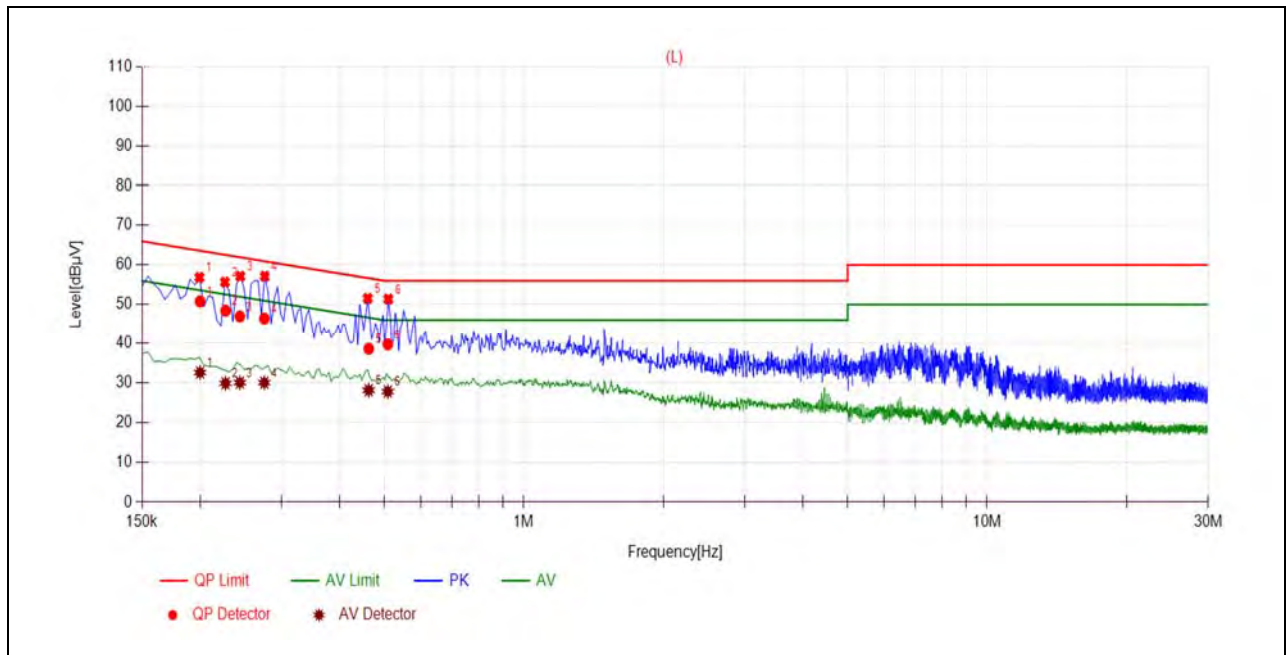
The measurement results are obtained as below:

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

U_R : Receiver Reading

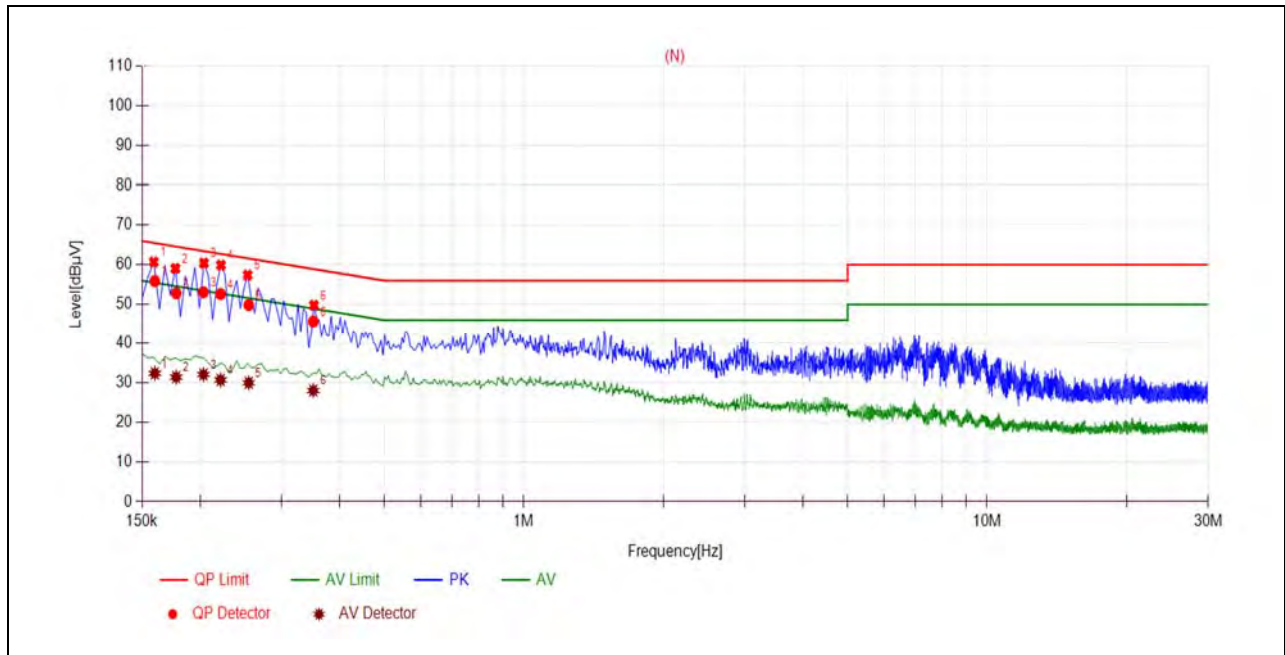
A_{Factor} : Voltage division factor of LISN

B.Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.2001	50.79	32.57	63.60	53.60	Line	PASS
2	0.2271	48.44	29.85	62.56	52.56		PASS
3	0.2439	46.96	30.03	61.96	51.96		PASS
4	0.2754	46.42	30.00	60.95	50.95		PASS
5	0.4626	38.57	28.09	56.65	46.65		PASS
6	0.5088	39.69	27.76	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	0.1598	55.91	32.34	65.48	55.48	Neutral	PASS
2	0.1777	52.83	31.37	64.59	54.59		PASS
3	0.2035	53.08	32.05	63.46	53.46		PASS
4	0.2216	52.64	30.67	62.76	52.76		PASS
5	0.2548	49.85	29.93	61.60	51.60		PASS
6	0.3513	45.69	27.99	58.93	48.93		PASS

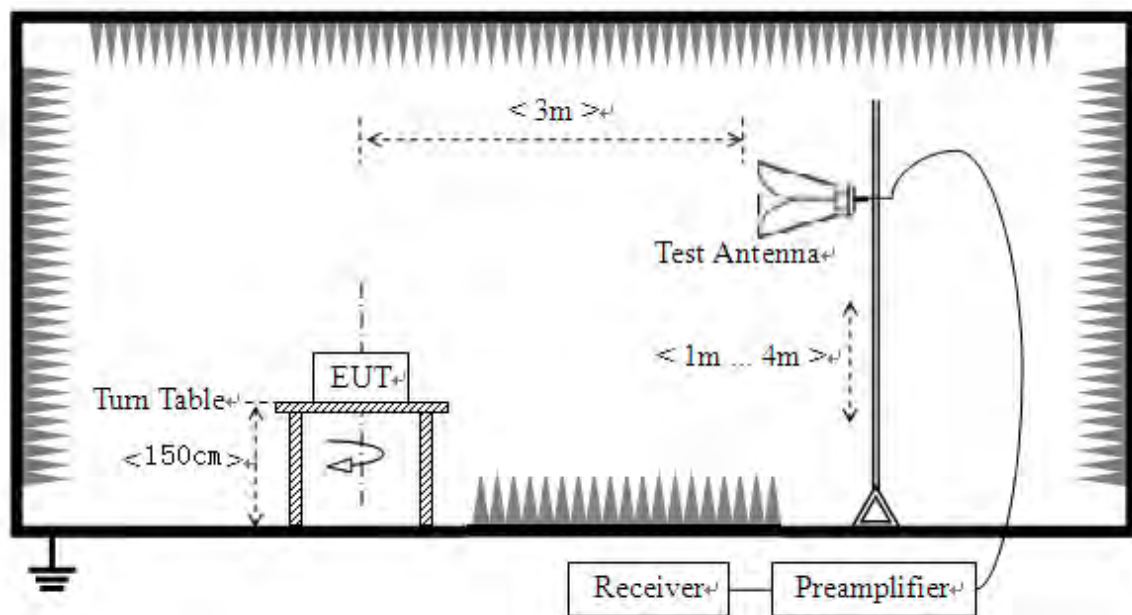
2.8.Restricted Frequency Bands

2.8.1.Requirement

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in 15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

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.

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 Procedure

KDB 558074 Section 8.6 and 8.7 was used in order to prove compliance.

2.8.4.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.

802.11b 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						
1	2390.00	PK	23.66	6.74	27.20	57.60	74	PASS
1	2387.14	AV	11.84	6.74	27.20	45.78	54	PASS
11	2483.50	PK	22.54	6.74	27.20	56.48	74	PASS
11	2483.50	AV	11.87	6.74	27.20	45.81	54	PASS



B.Test Plot:



(PEAK, Channel 1, 802.11b)



(AVERAGE, Channel 1, 802.11b)



(PEAK, Channel 11, 802.11b)



(AVERAGE, Channel 11, 802.11b)

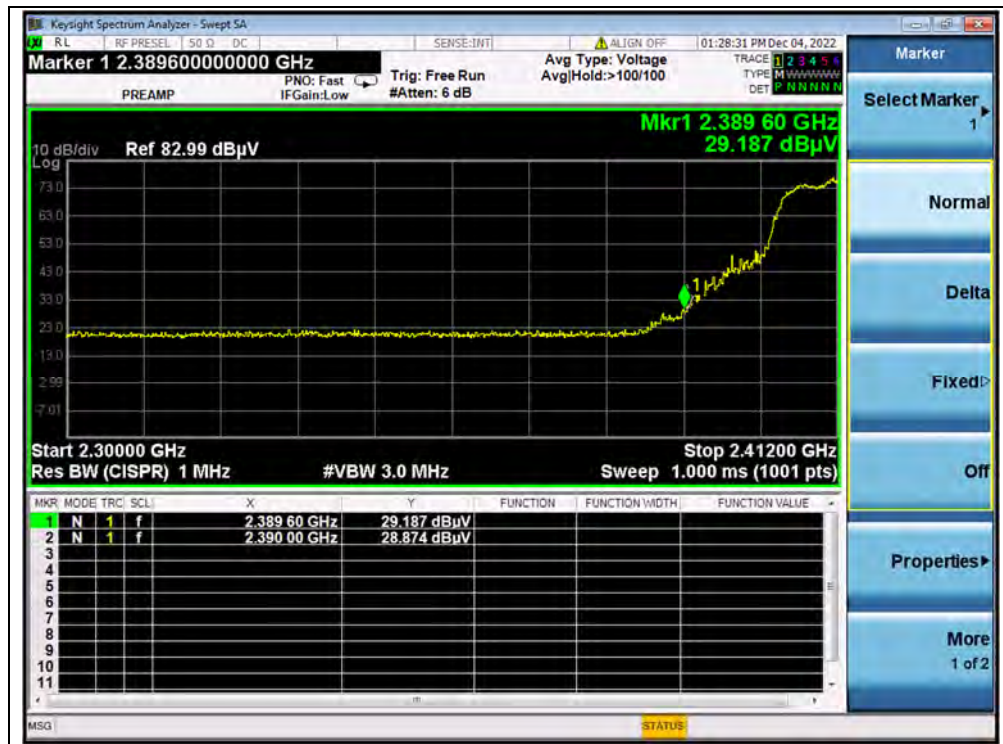


802.11g Mode

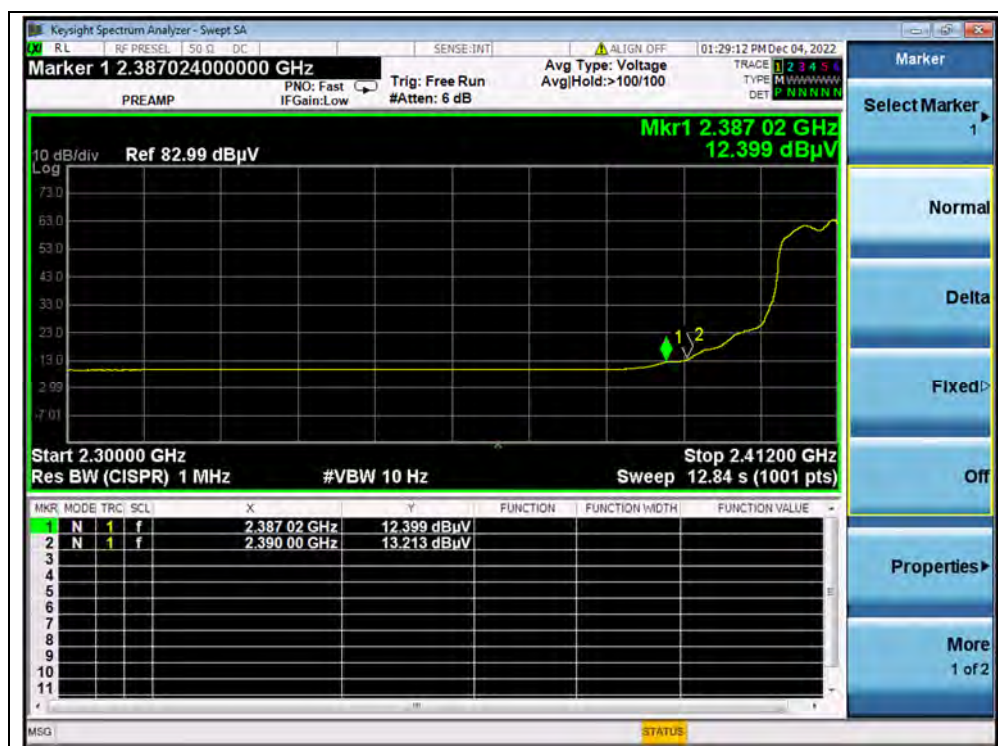
A.Test Verdict:

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBμV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
1	2389.60	PK	29.19	6.74	27.20	63.13	74	PASS
1	2390.00	AV	13.21	6.74	27.20	47.15	54	PASS
11	2484.12	PK	36.41	6.74	27.20	70.35	74	PASS
11	2483.50	AV	16.39	6.74	27.20	50.33	54	PASS

B.Test Plot:



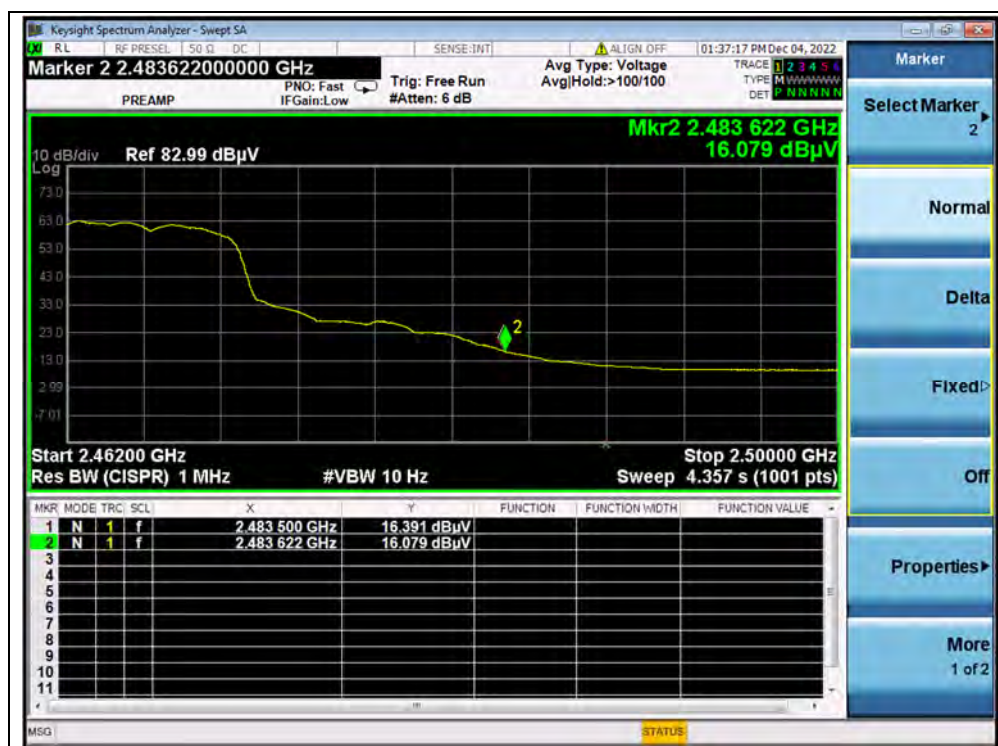
(PEAK, Channel 1, 802.11g)



(AVERAGE, Channel 1, 802.11g)



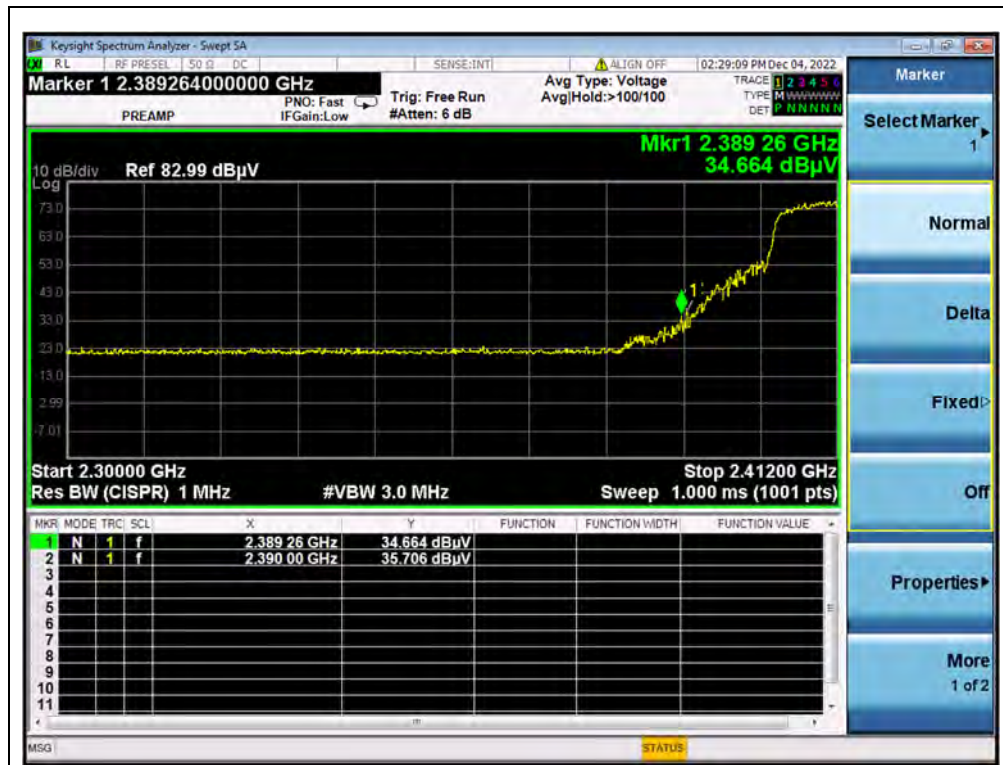
(PEAK, Channel 11, 802.11g)



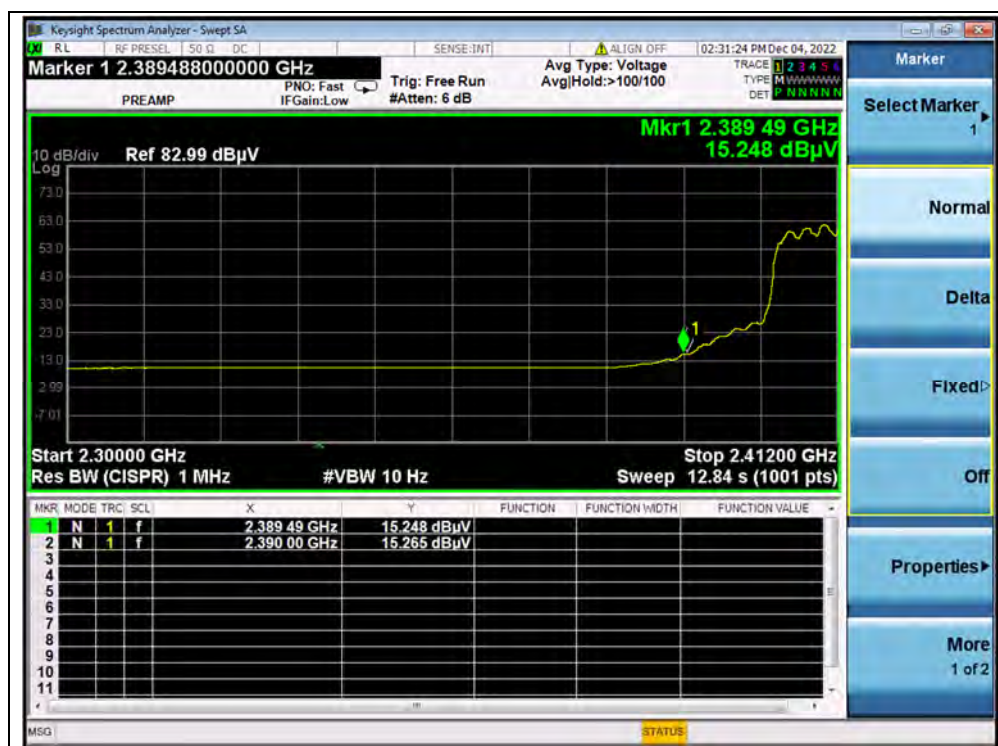
(AVERAGE, Channel 11, 802.11g)

**802.11n (HT20) Mode****A.Test Verdict:**

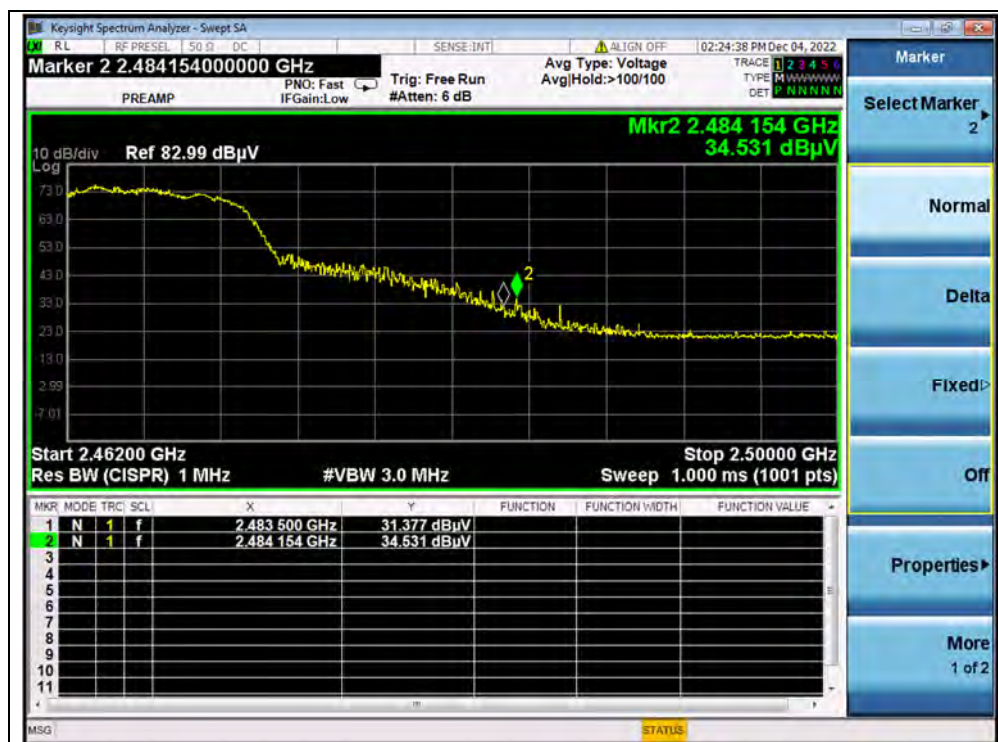
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
1	2390.00	PK	35.71	6.74	27.20	69.65	74	PASS
1	2390.00	AV	15.27	6.74	27.20	49.21	54	PASS
11	2484.15	PK	34.53	6.74	27.20	68.47	74	PASS
11	2483.50	AV	15.20	6.74	27.20	49.14	54	PASS

B.Test Plot:

(PEAK, Channel 1, 802.11n (HT20))



(AVERAGE, Channel 1, 802.11n (HT20))



(PEAK, Channel 11, 802.11n (HT20))



(AVERAGE, Channel 11, 802.11n (HT20))

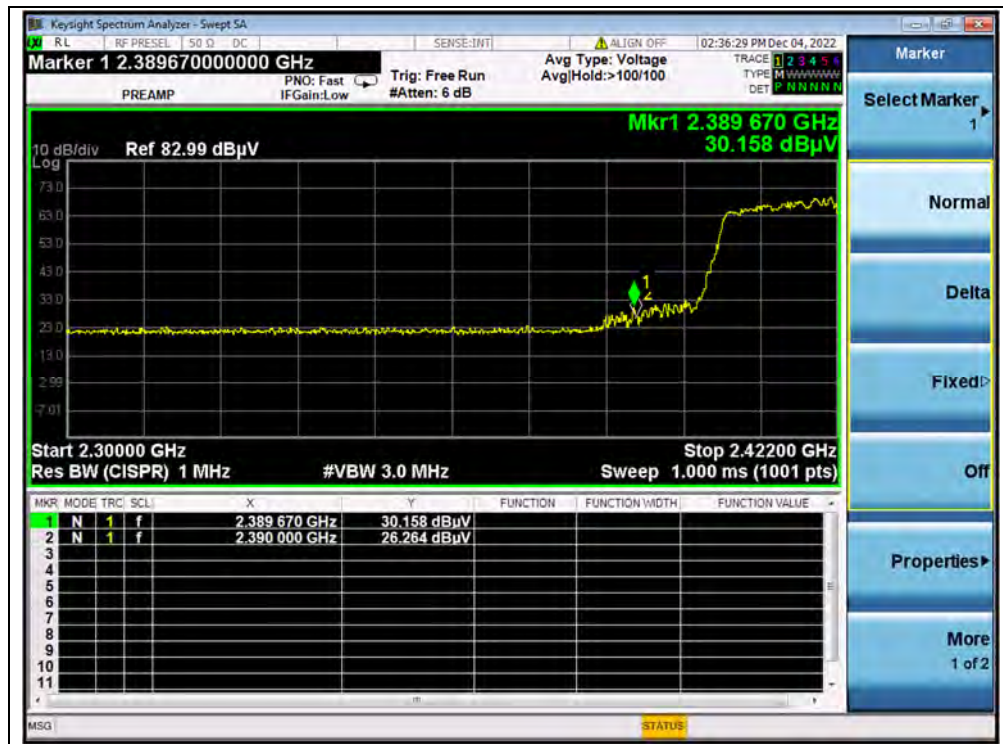


802.11n (HT40) Mode

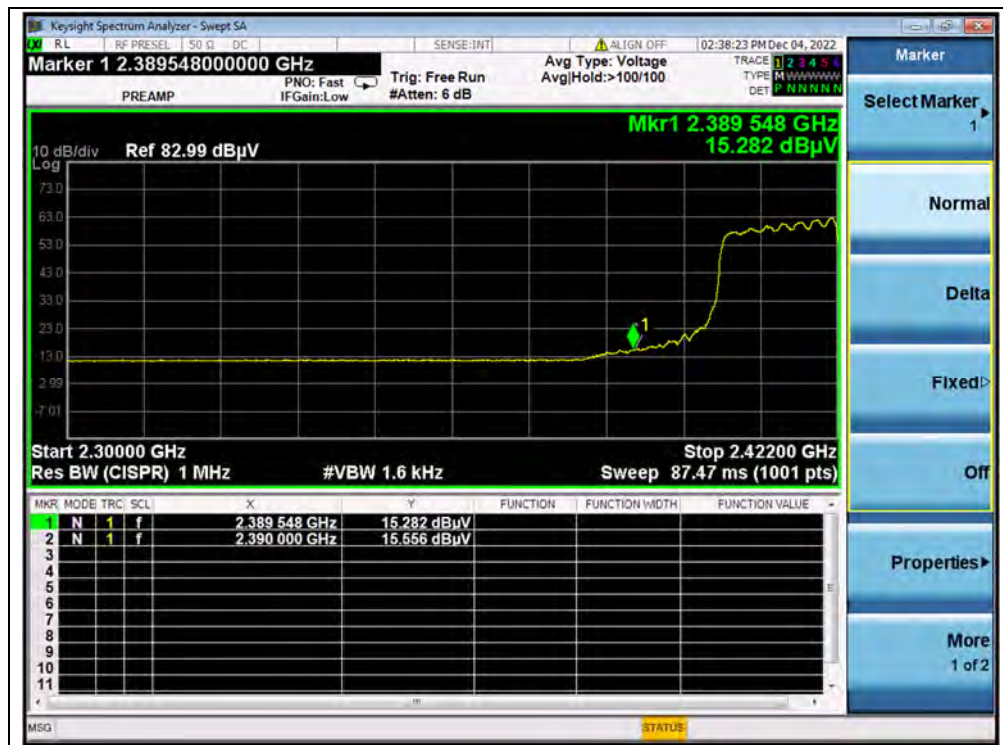
A.Test Verdict:

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						
3	2389.67	PK	30.16	6.74	27.20	64.10	74	PASS
3	2390.00	AV	15.56	6.74	27.20	49.50	54	PASS
9	2483.63	PK	29.01	6.74	27.20	62.95	74	PASS
9	2483.68	AV	16.43	6.74	27.20	50.37	54	PASS

B.Test Plot:



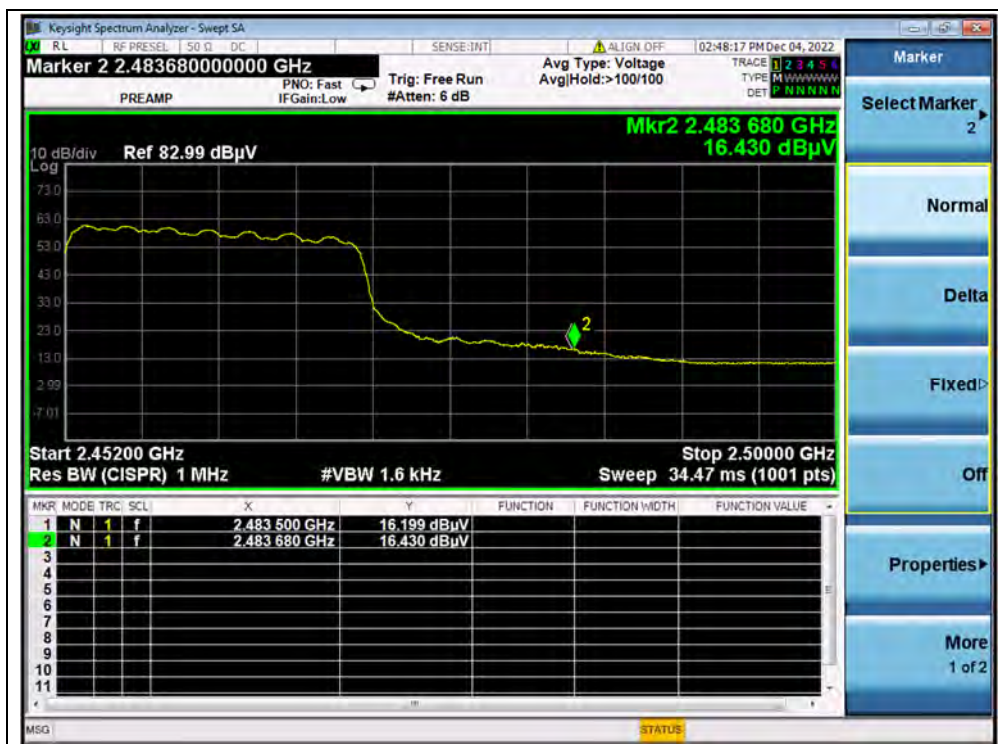
(PEAK, Channel 3, 802.11n (HT40))



(AVERAGE, Channel 3, 802.11n (HT40))



(PEAK, Channel 9, 802.11n (HT40))



(AVERAGE, Channel 9, 802.11n (HT40))

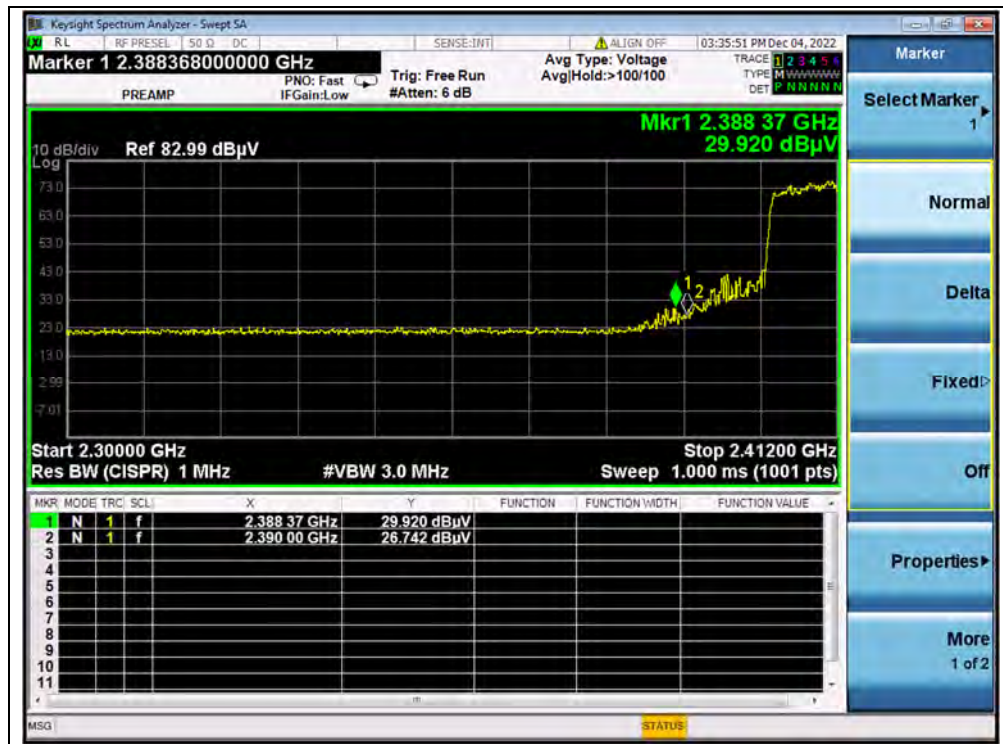


802.11ax (HEW20) Mode

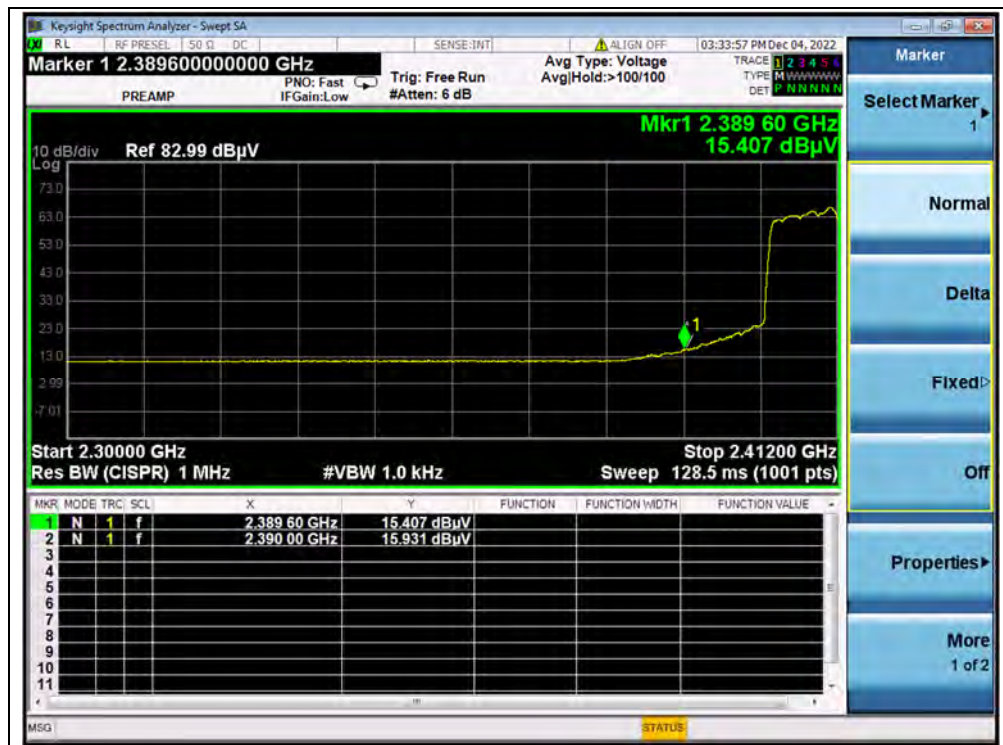
A.Test Verdict:

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBμV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
1	2388.37	PK	29.92	6.74	27.20	63.86	74	PASS
1	2390.00	AV	15.93	6.74	27.20	49.87	54	PASS
11	2484.12	PK	29.61	6.74	27.20	63.55	74	PASS
11	2483.50	AV	15.79	6.74	27.20	49.73	54	PASS

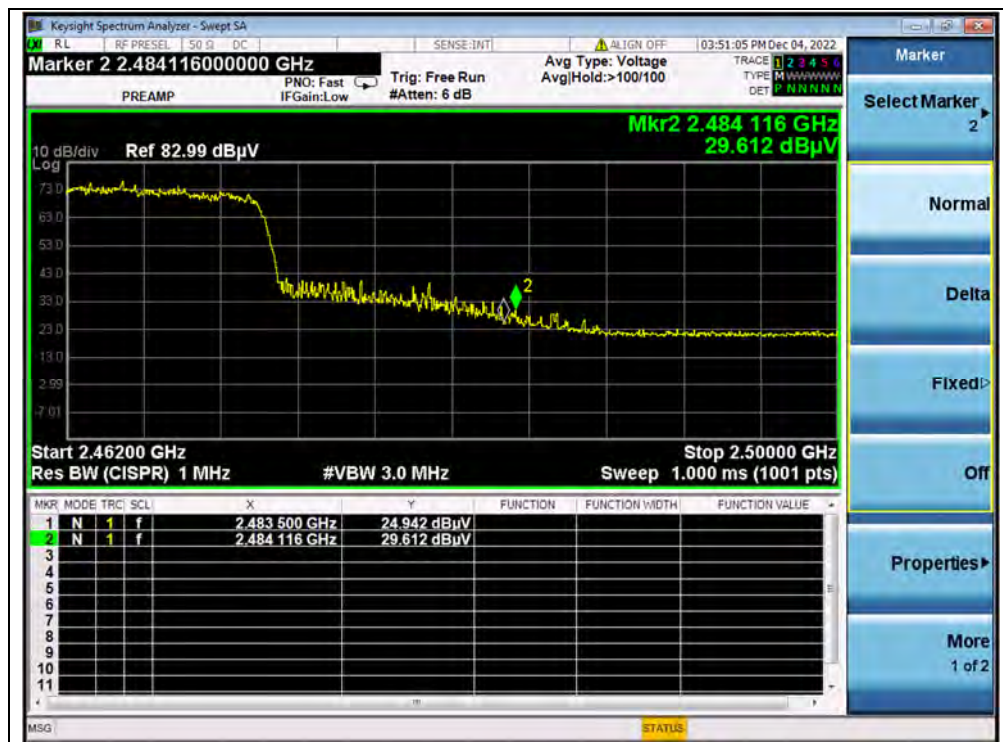
B.Test Plot:



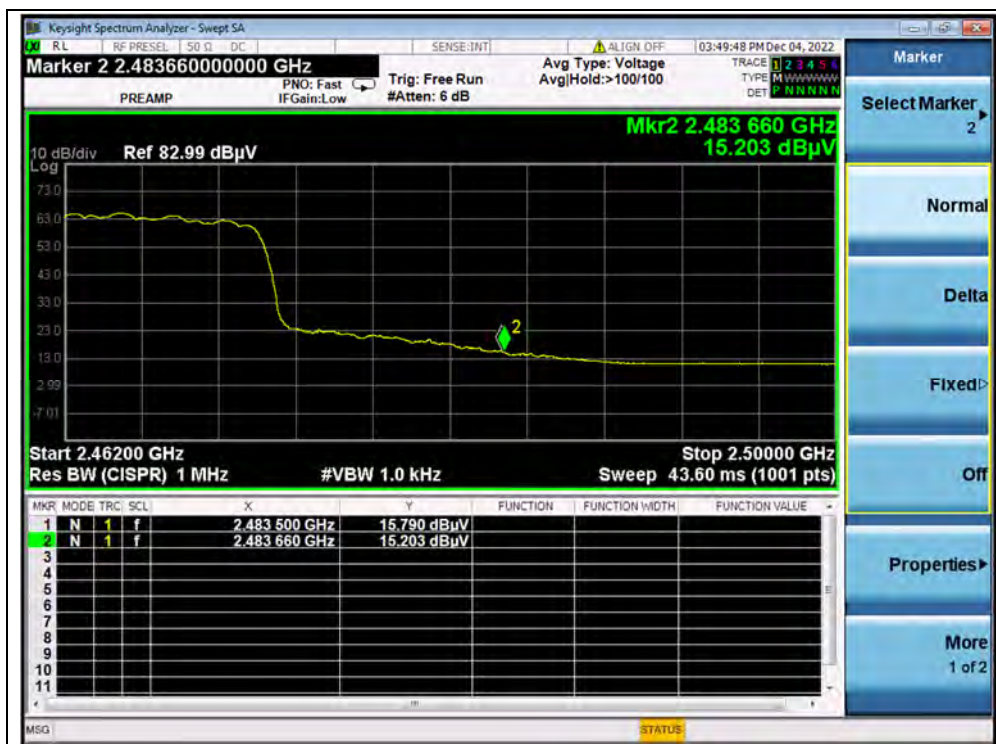
(PEAK, Channel 1, 802.11ax (HEW20))



(AVERAGE, Channel 1, 802.11ax (HEW20))



(PEAK, Channel 11, 802.11ax (HEW20))



(AVERAGE, Channel 11, 802.11ax (HEW20))

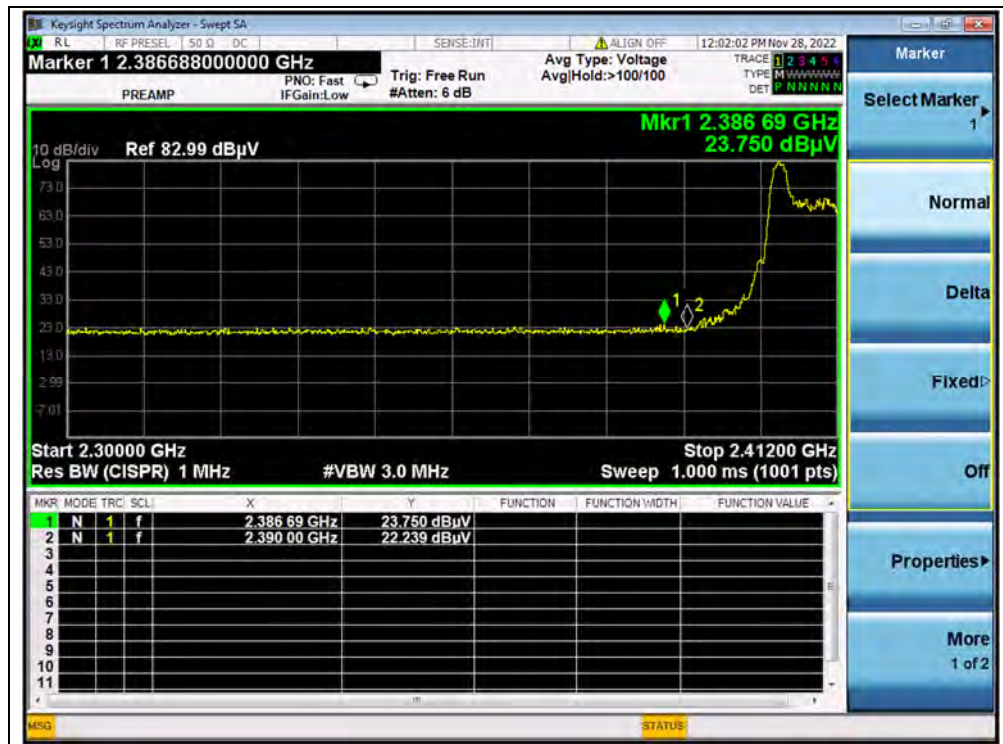


802.11ax (HEW20) RU26 Mode

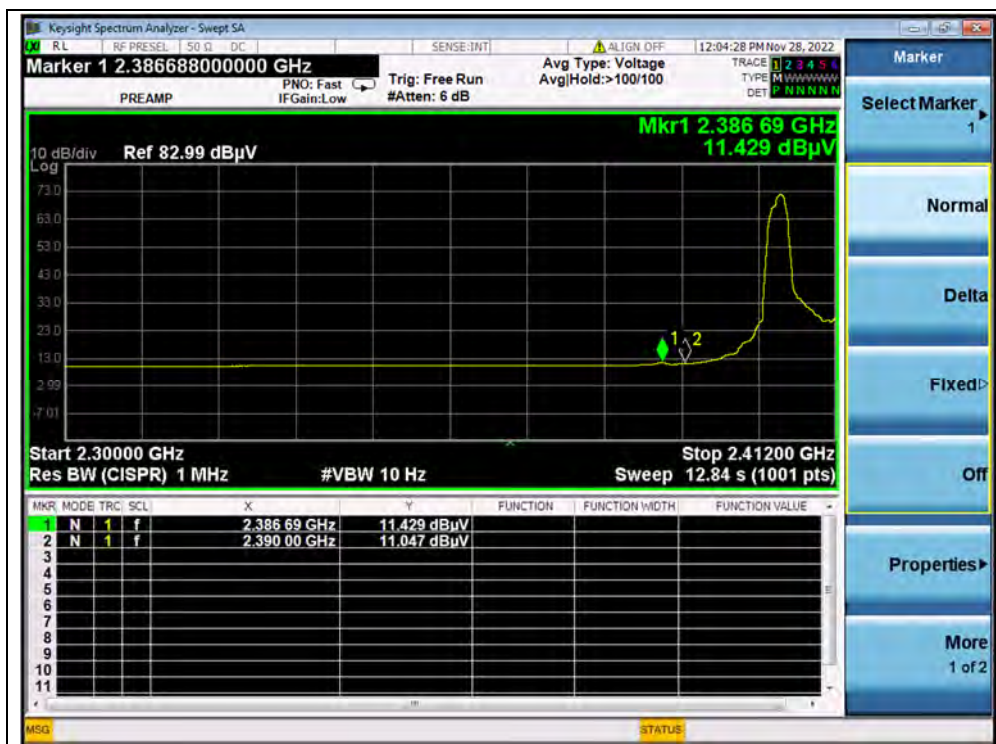
A.Test Verdict:

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						
1	2386.69	PK	23.75	6.74	27.20	57.69	74	PASS
1	2386.69	AV	11.43	6.74	27.20	45.37	54	PASS
11	2486.40	PK	25.81	6.74	27.20	59.75	74	PASS
11	2487.57	AV	11.03	6.74	27.20	44.97	54	PASS

B.Test Plot:



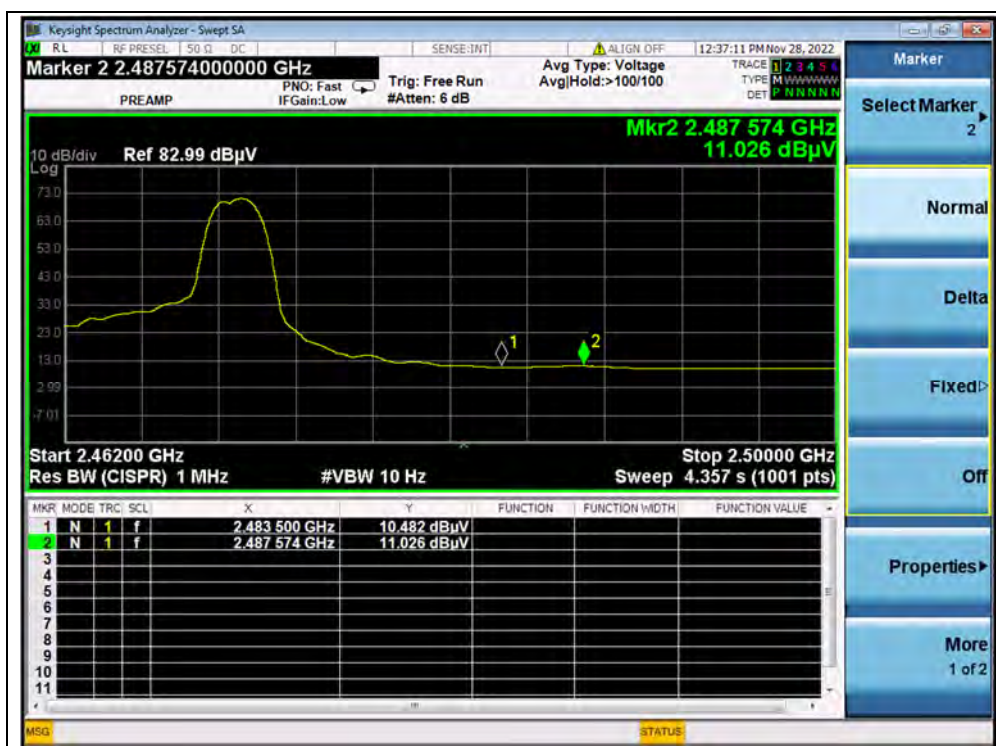
(PEAK, Channel 1, 802.11ax (HEW20) RU26)



(AVERAGE, Channel 1, 802.11ax (HEW20) RU26)



(PEAK, Channel 11, 802.11ax (HEW20) RU26)



(AVERAGE, Channel 11, 802.11ax (HEW20) RU26)

2.9. Radiated Emission

2.9.1. Requirement

According to FCC section 15.247(d), radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

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(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

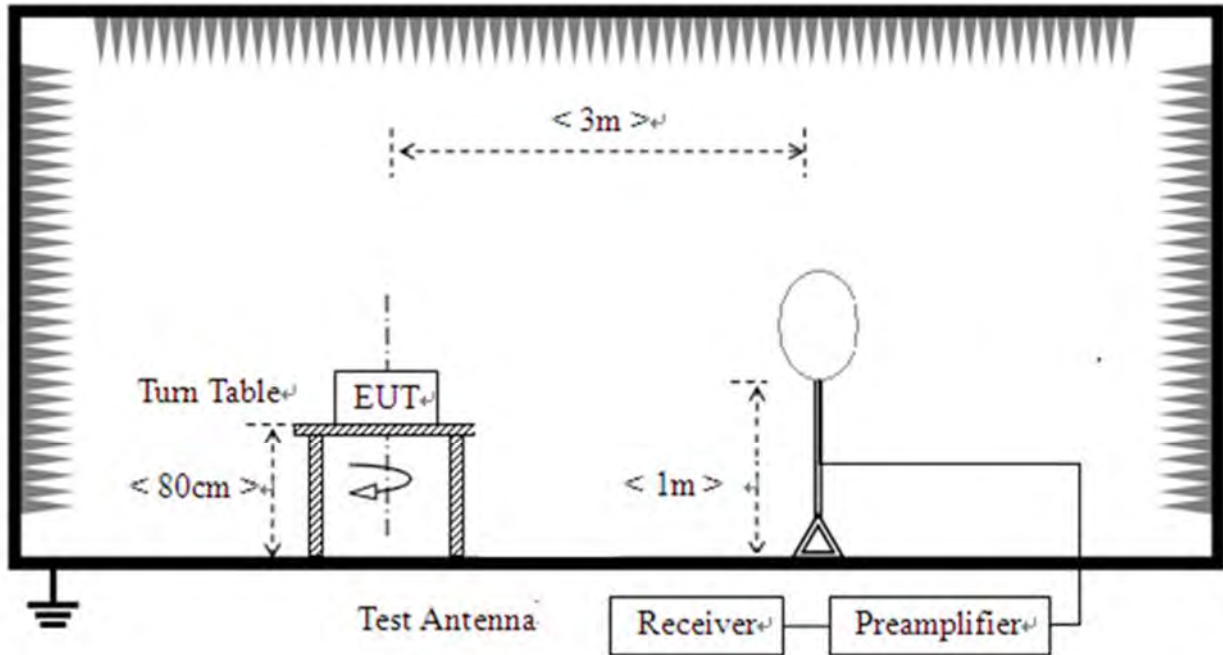
Note1: For above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.

Note2: For above 1000MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK). 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).

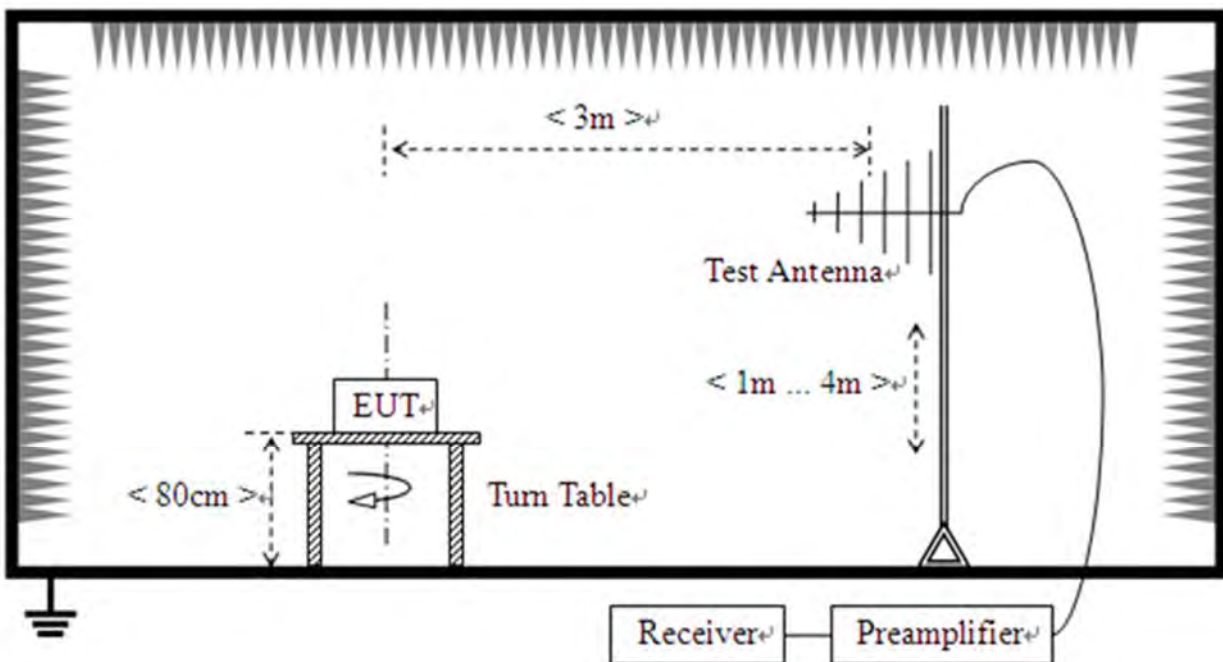
2.9.2.Test Description

Test Setup:

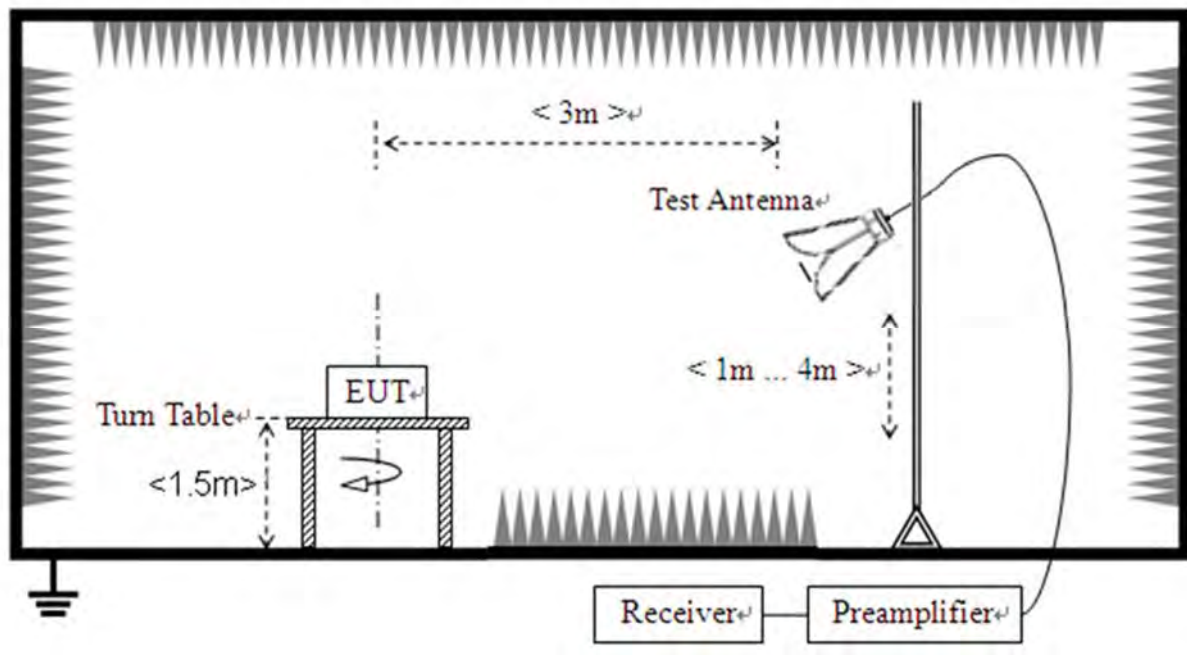
- 1) For radiated emissions from 9kHz to 30MHz



- 2) For radiated emissions from 30MHz to 1GHz



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 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. For measurements above 1 GHz, keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.



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:

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

A_T : Total correction Factor except Antenna

U_R : Receiver Reading

G_{preamp} : Preamplifier Gain

A_{Factor} : Antenna Factor at 3m

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

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

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

Note3: For the frequency, which started from 18GHz to 10th harmonic of the highest frequency, 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.

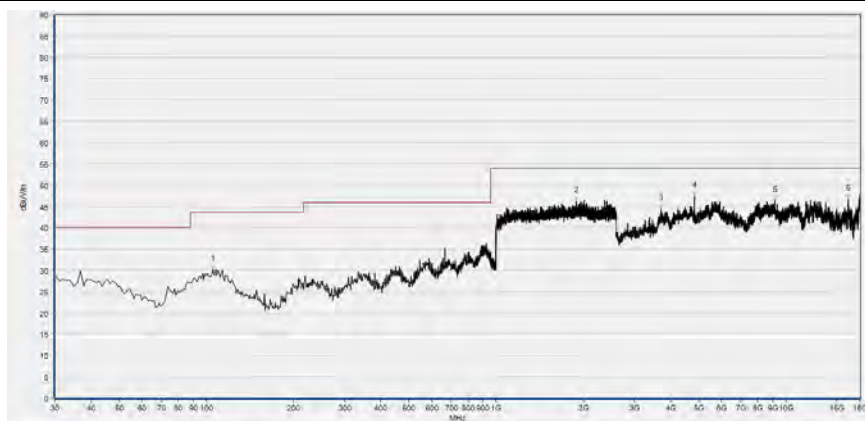
**802.11b Mode**

Plot for Channel 1



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
95.960	31.40	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1859.733	46.50	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3718.040	44.59	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4823.760	51.82	N/A	49.11	74.00	N/A	54.00	Horizontal	PASS
8430.440	46.57	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10364.680	47.25	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

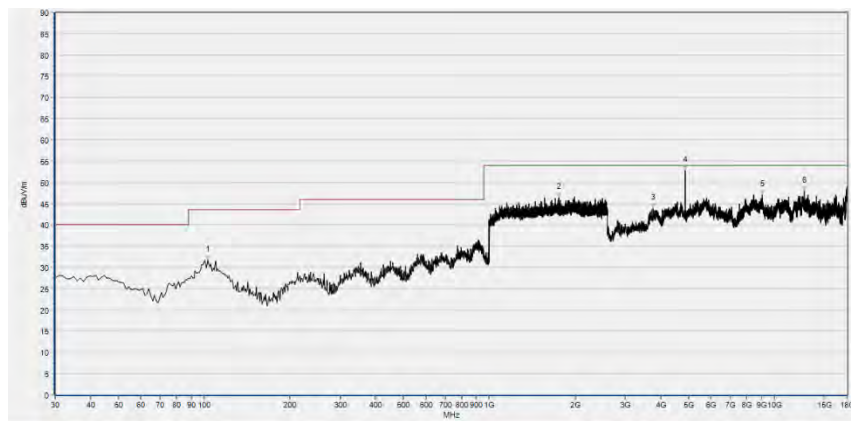


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
105.660	30.16	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1889.067	46.28	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3711.880	44.39	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4823.760	47.38	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9148.080	46.34	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
16392.240	46.68	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

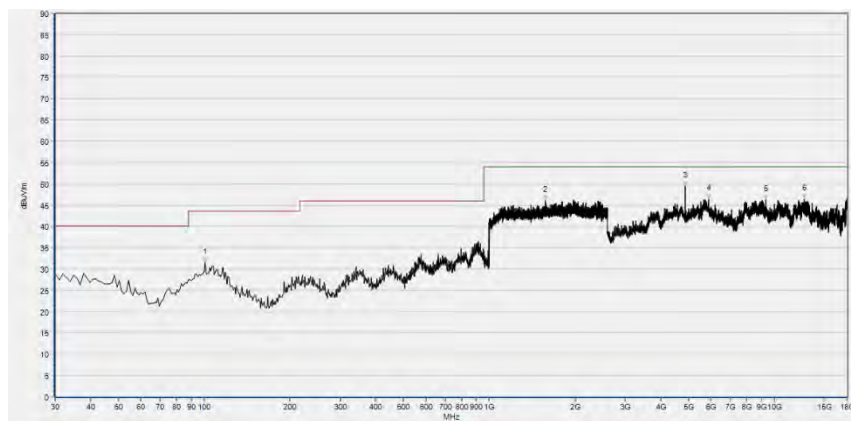


Plot for Channel 6



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
102.750	31.65	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1757.333	46.49	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3748.840	43.88	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4873.040	52.77	N/A	49.64	74.00	N/A	54.00	Horizontal	PASS
9068.000	47.02	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12748.600	47.92	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

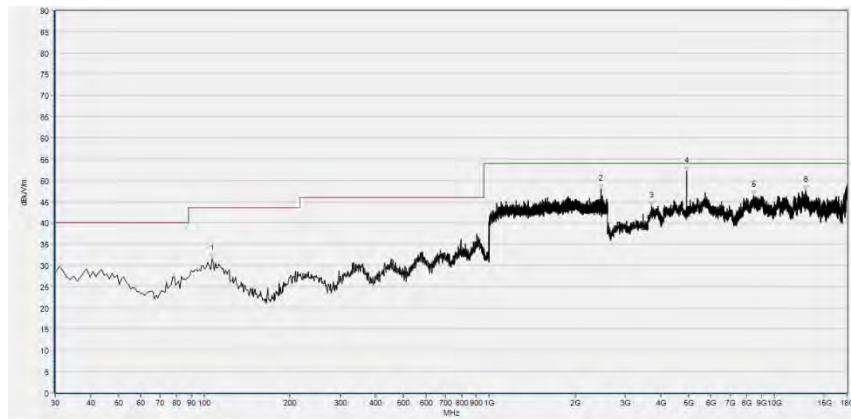


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
100.810	31.52	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1574.400	46.02	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4873.040	49.39	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5867.880	46.42	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9317.480	46.30	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12723.960	46.37	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

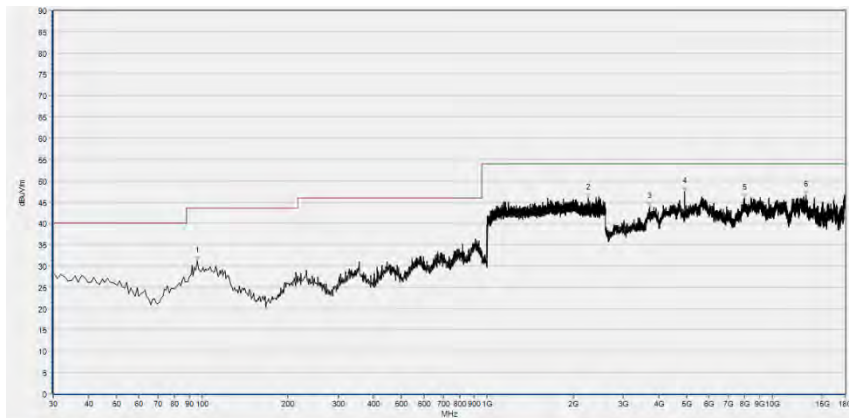


Plot for Channel 11



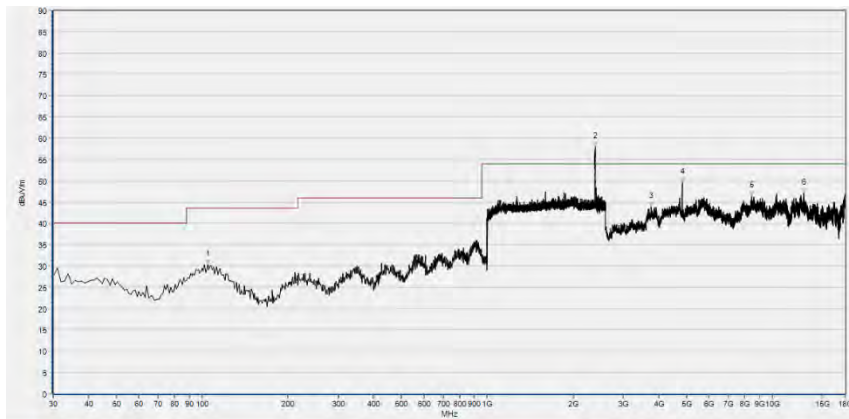
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
106.630	31.51	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2464.533	47.88	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3705.720	43.86	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4922.320	52.12	N/A	49.44	74.00	N/A	54.00	Horizontal	PASS
8448.920	46.35	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12881.040	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
95.960	31.15	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2256.533	45.87	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3711.880	43.85	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4925.400	47.50	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7993.080	45.88	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13108.960	46.53	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

**802.11g Mode****Plot for Channel 1**

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
104.690	30.40	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2389.867	58.02	N/A	40.52	74.00	N/A	54.00	Horizontal	PASS
3764.240	43.91	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4823.760	49.53	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8470.480	46.35	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12877.960	47.10	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

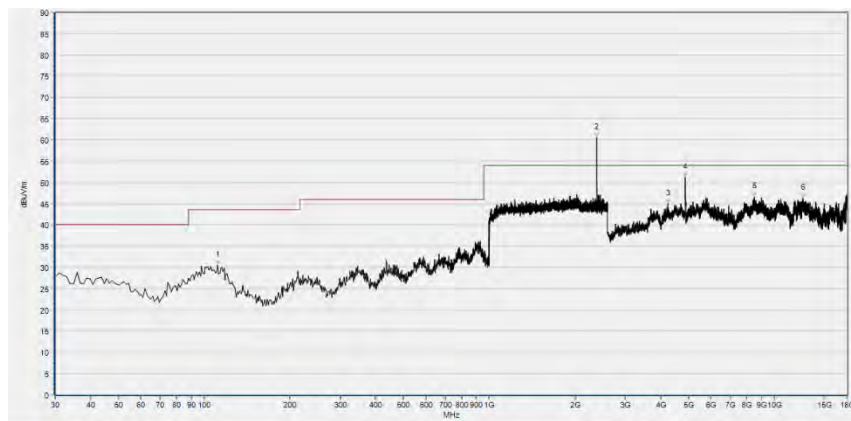


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
103.720	30.34	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2491.733	46.52	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3875.120	44.86	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4712.880	45.70	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5667.680	46.69	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13099.720	46.08	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

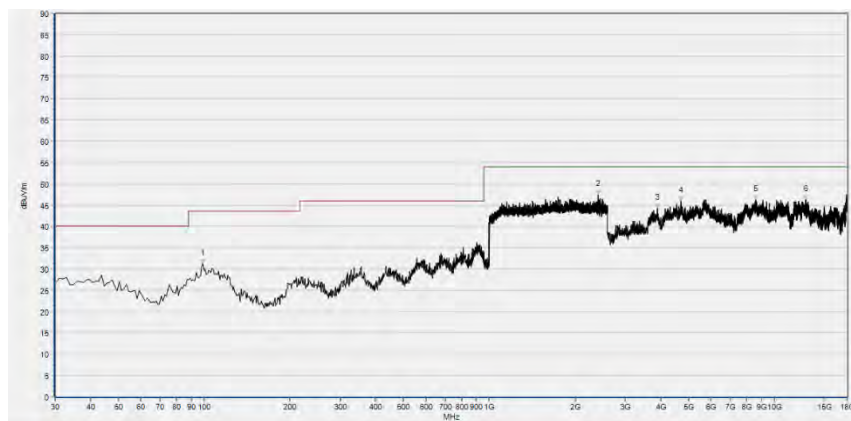


Plot for Channel 6



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
111.480	30.55	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2387.200	60.45	N/A	33.07	74.00	N/A	54.00	Horizontal	PASS
4238.560	44.92	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4873.040	51.08	N/A	40.62	74.00	N/A	54.00	Horizontal	PASS
8522.840	46.54	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12606.920	46.22	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

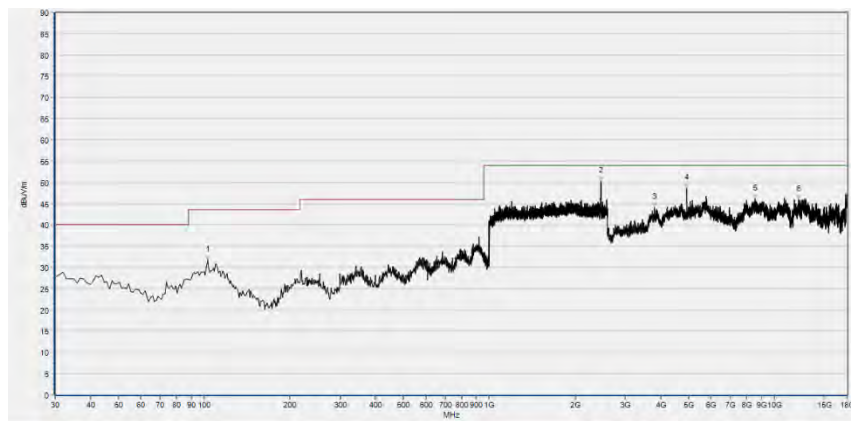


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
98.870	31.15	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2409.067	47.40	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3887.440	44.17	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4712.880	45.91	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8593.680	46.31	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12884.120	46.30	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

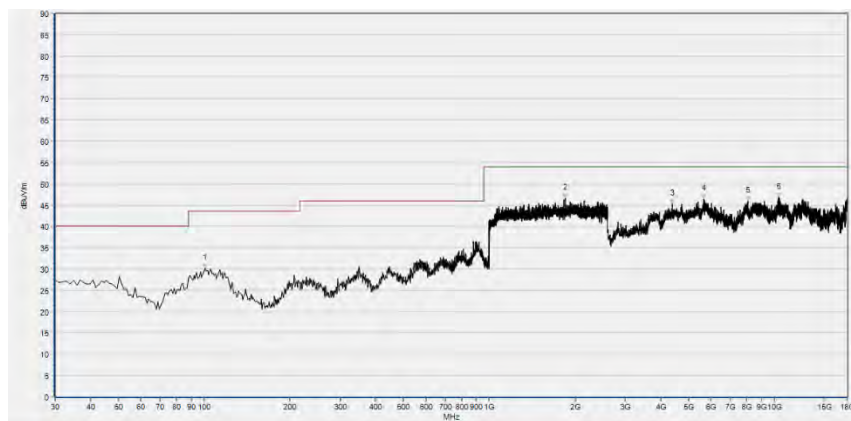


Plot for Channel 11



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
102.750	31.67	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2467.200	50.20	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3788.880	44.04	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4919.240	48.66	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8565.960	46.11	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12172.640	45.94	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

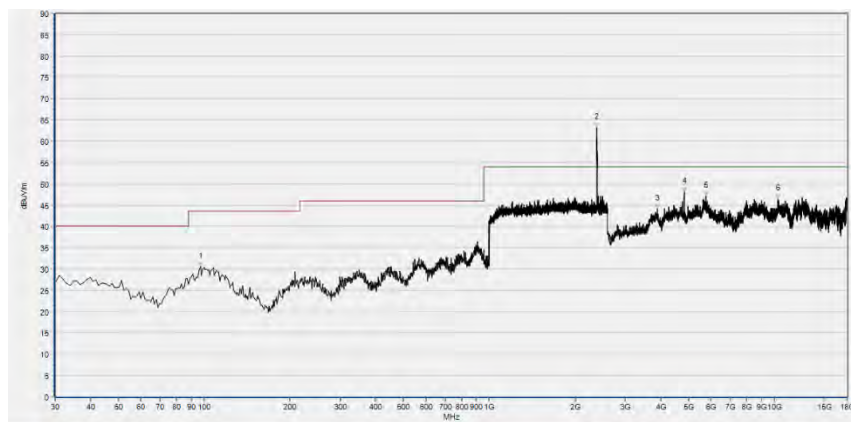


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
100.810	30.20	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1847.467	46.53	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4380.240	45.33	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5664.600	46.50	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8057.760	45.97	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10361.600	46.69	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

**802.11n (HT20) Mode**

Plot for Channel 1



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
96.930	30.54	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2385.600	63.24	N/A	40.22	74.00	N/A	54.00	Horizontal	PASS
3881.280	44.13	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4823.760	48.10	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5750.840	47.05	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10296.920	46.44	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

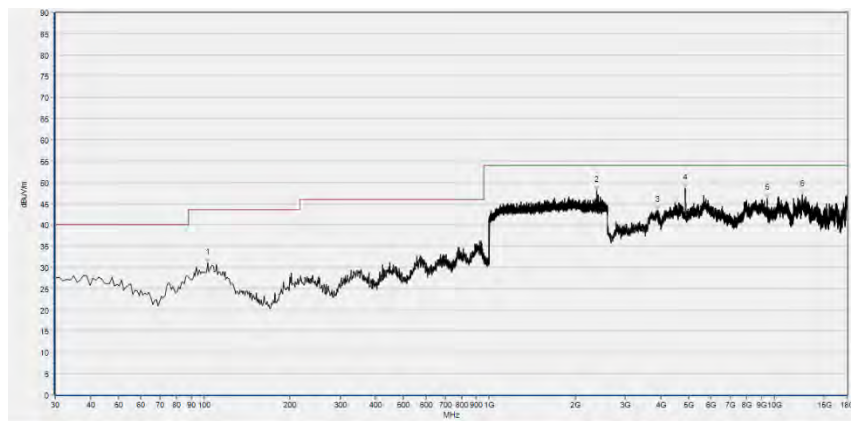


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
105.660	31.87	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2389.867	52.34	N/A	38.33	74.00	N/A	54.00	Vertical	PASS
3631.800	43.36	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5763.160	47.68	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8433.520	46.70	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12887.200	47.17	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

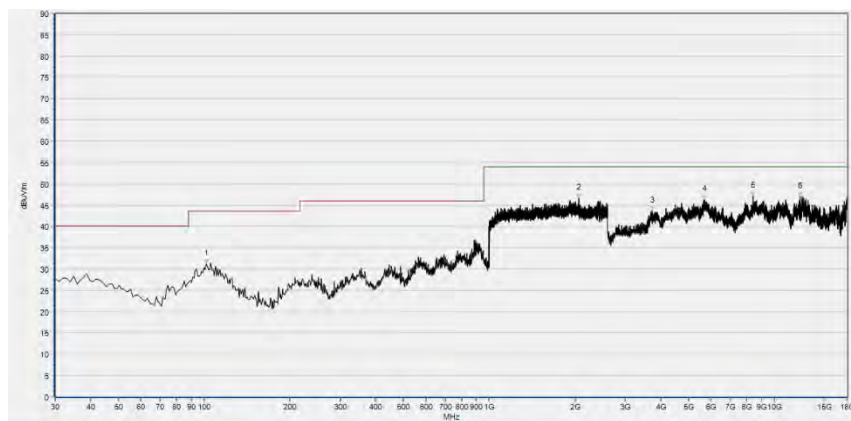


Plot for Channel 6



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
102.750	31.03	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2382.933	48.03	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3881.280	43.37	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4876.120	48.57	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9422.200	46.22	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12520.680	47.08	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

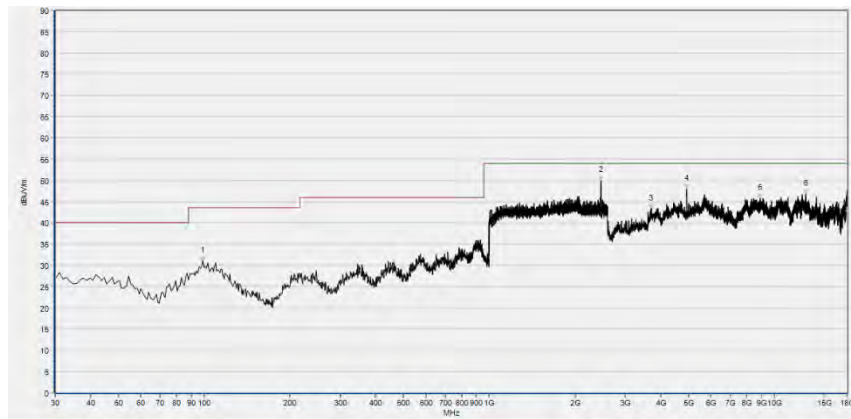


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
101.780	31.09	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2065.067	46.65	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3739.600	43.62	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5670.760	46.26	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8421.200	47.01	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12295.840	46.85	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

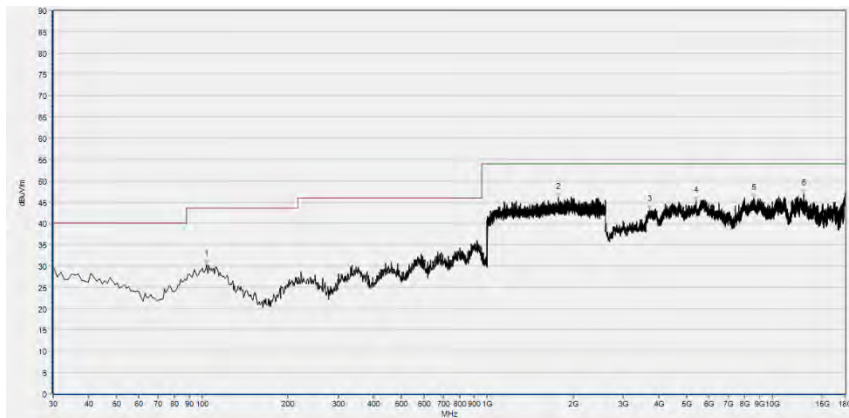


Plot for Channel 11



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
98.870	30.96	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2464.533	49.93	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3684.160	43.22	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4922.320	47.99	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8904.760	45.72	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12905.680	46.81	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

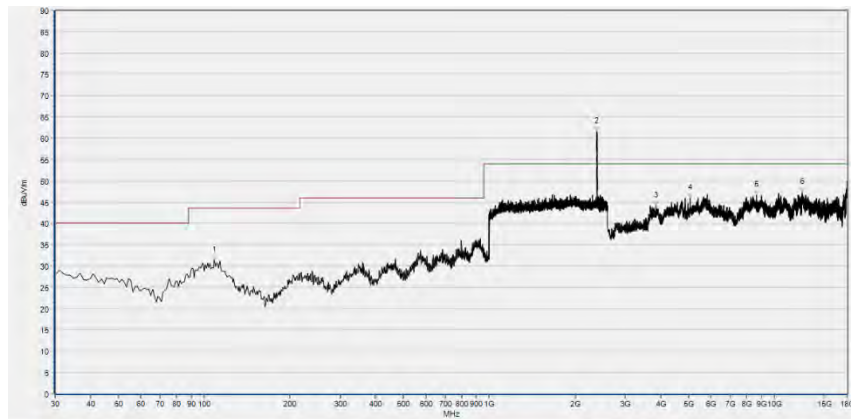


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
103.720	30.32	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1779.733	46.11	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3711.880	43.29	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5399.720	45.29	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8624.480	46.00	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12887.200	46.98	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

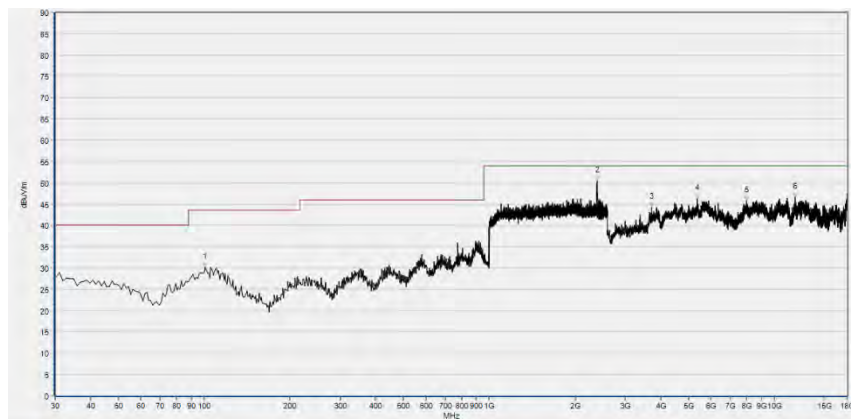
**802.11n (HT40) Mode**

Plot for Channel 3



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
108.570	31.31	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2385.600	61.53	N/A	36.25	74.00	N/A	54.00	Horizontal	PASS
3835.080	44.08	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5070.160	45.98	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8642.960	46.54	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12514.520	47.24	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

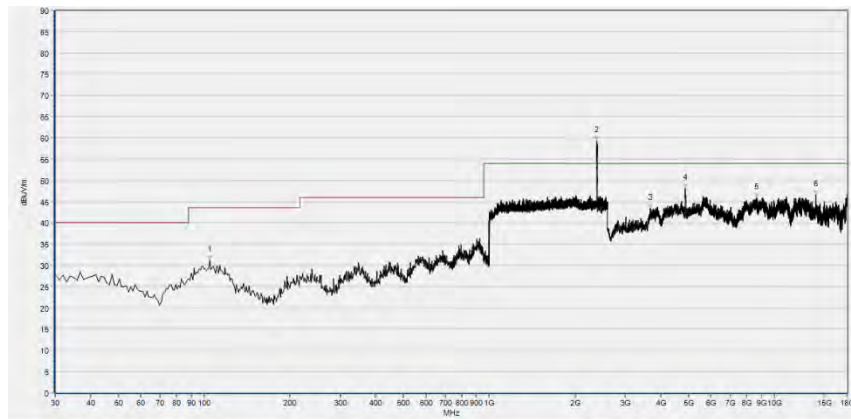


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
100.810	30.14	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2388.267	50.44	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3708.800	44.23	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5353.520	46.18	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7993.080	45.80	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
11815.360	46.62	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

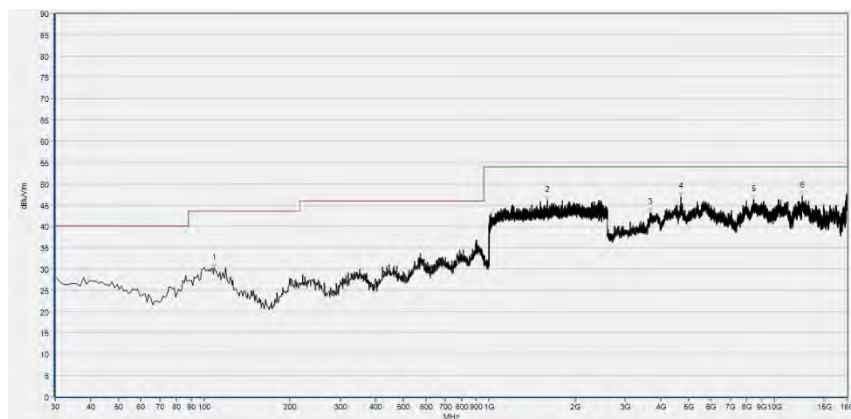


Plot for Channel 6



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
104.690	31.09	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2383.467	59.27	N/A	39.51	74.00	N/A	54.00	Horizontal	PASS
3671.840	43.36	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4866.880	48.04	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8633.720	45.93	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13989.840	46.55	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

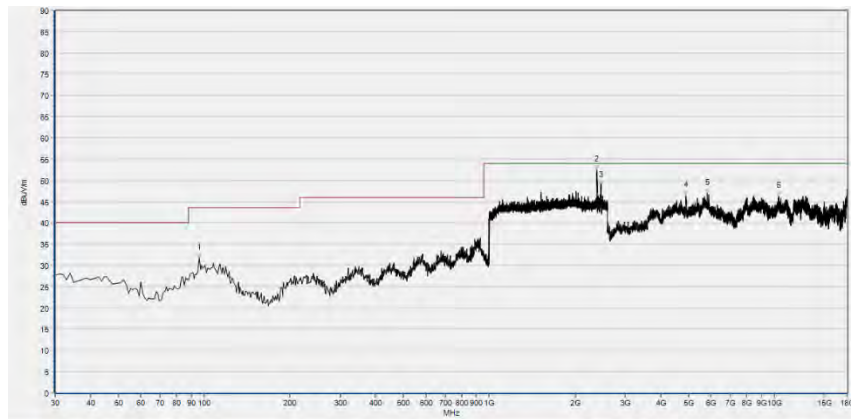


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
108.570	30.12	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1599.467	46.06	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3678.000	43.30	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4709.800	46.91	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8436.600	46.20	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12526.840	47.04	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

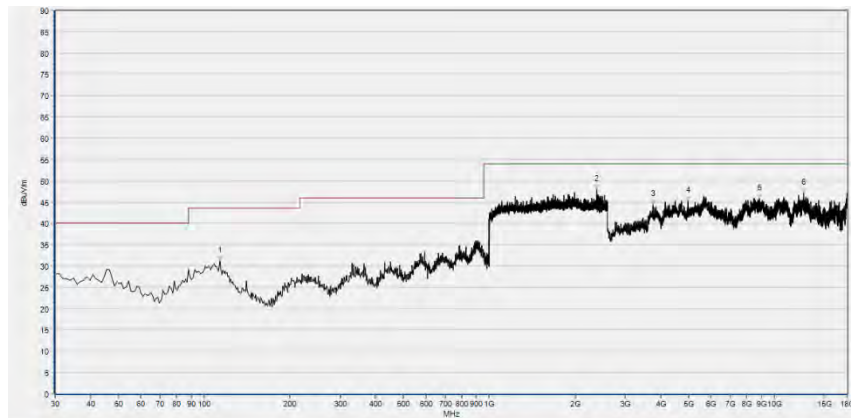


Plot for Channel 9



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
95.960	31.66	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2385.067	52.48	N/A	38.72	74.00	N/A	54.00	Horizontal	PASS
2461.333	48.83	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4900.760	46.37	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5812.440	46.95	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10333.880	46.22	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

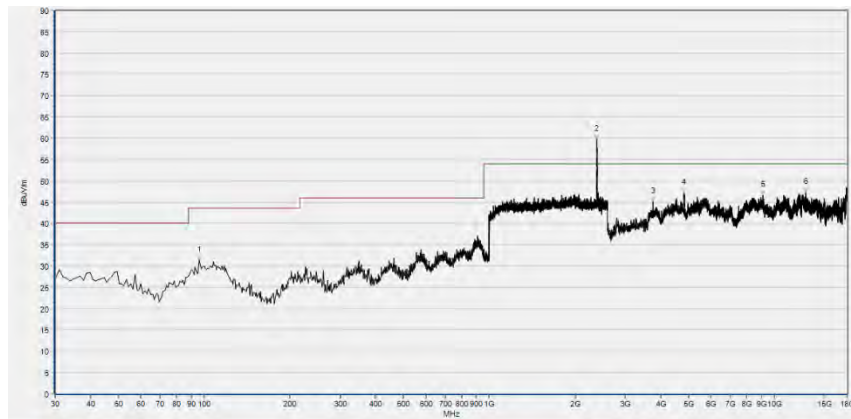


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
113.420	31.10	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2386.133	47.91	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3755.000	44.46	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4990.080	45.17	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8840.080	45.68	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12683.920	47.03	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

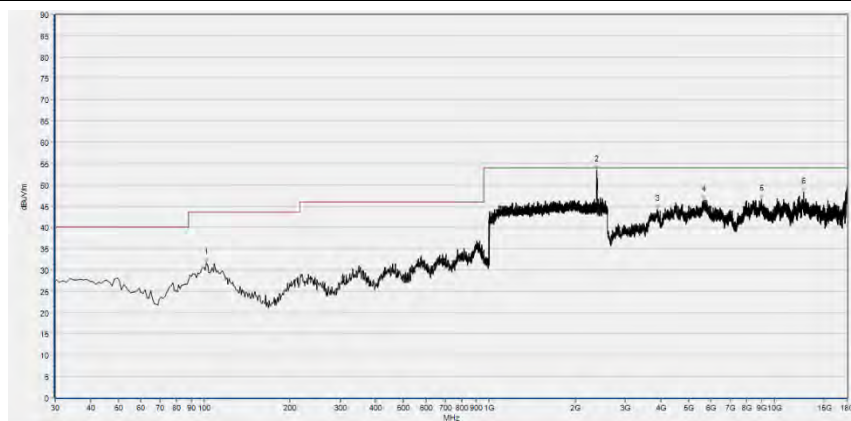
**802.11ax (HEW20) Mode**

Plot for Channel 1



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
95.960	31.35	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2387.200	59.75	N/A	36.84	74.00	N/A	54.00	Horizontal	PASS
3758.080	45.01	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4820.680	47.10	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9092.640	46.56	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12887.200	47.31	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

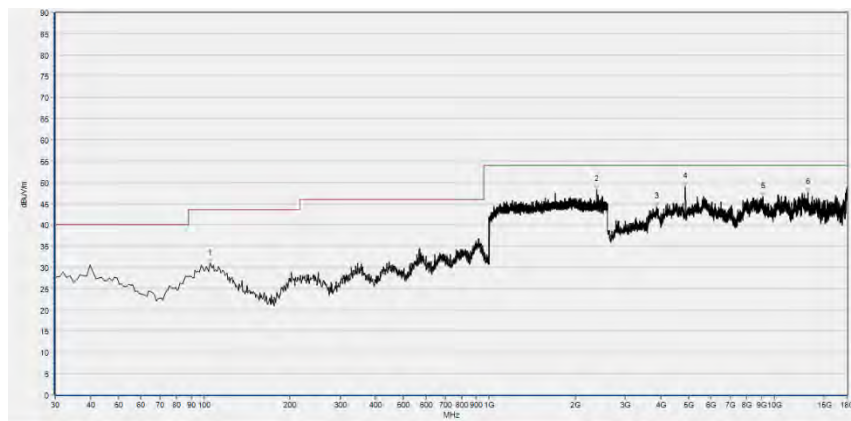
(Antenna Horizontal, 30MHz to 18GHz)



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
101.780	31.69	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2386.133	53.46	N/A	34.05	74.00	N/A	54.00	Vertical	PASS
3875.120	44.16	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5652.280	46.50	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9037.200	46.51	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12674.680	48.25	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

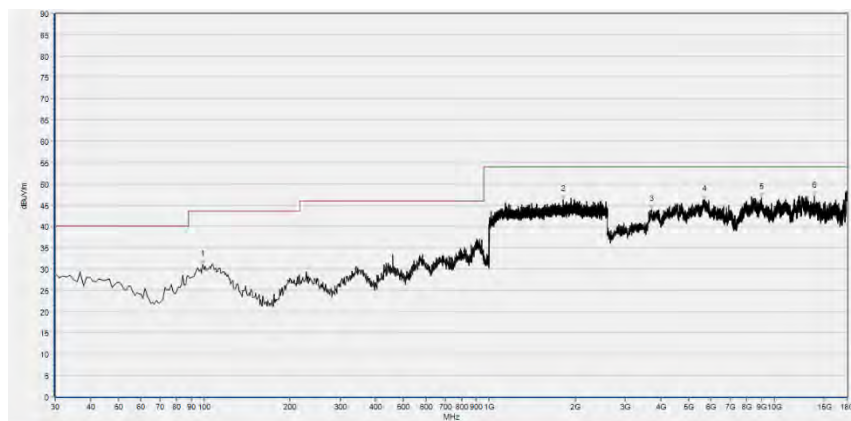
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 6



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
104.690	30.82	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2384.000	48.23	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3853.560	44.20	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4873.040	48.94	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9108.040	46.57	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13096.640	47.62	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

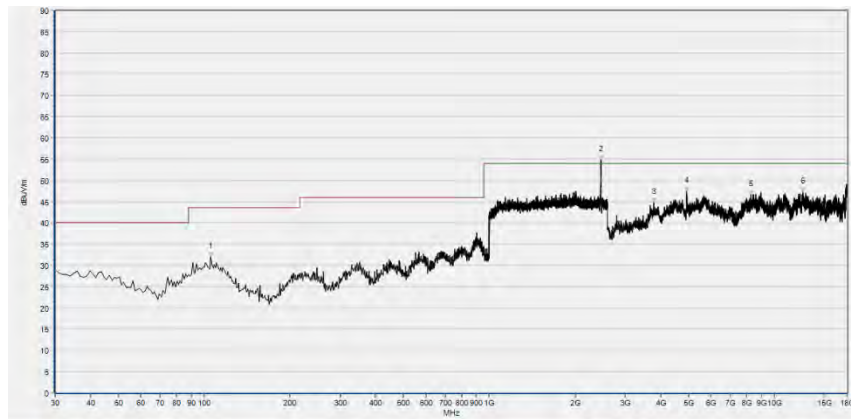


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
98.870	30.98	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1820.267	46.20	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3708.800	43.91	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5683.080	46.18	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9027.960	46.74	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13842.000	47.11	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

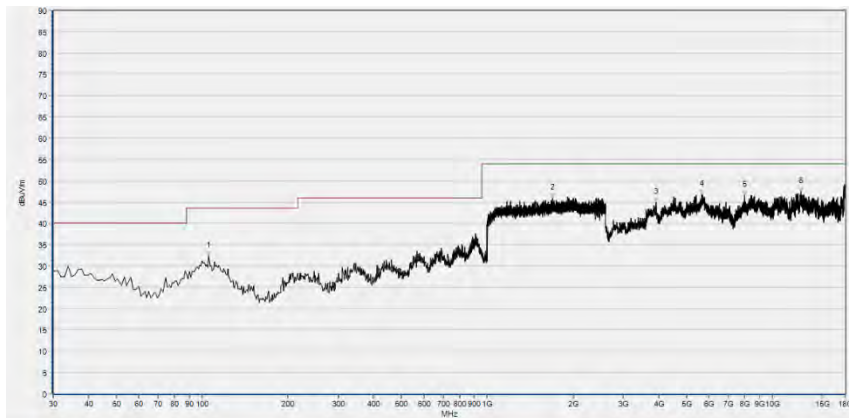


Plot for Channel 11



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
105.660	31.95	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2465.600	54.81	N/A	38.12	74.00	N/A	54.00	Horizontal	PASS
3776.560	44.77	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4925.400	47.39	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8282.600	46.59	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12594.600	47.23	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

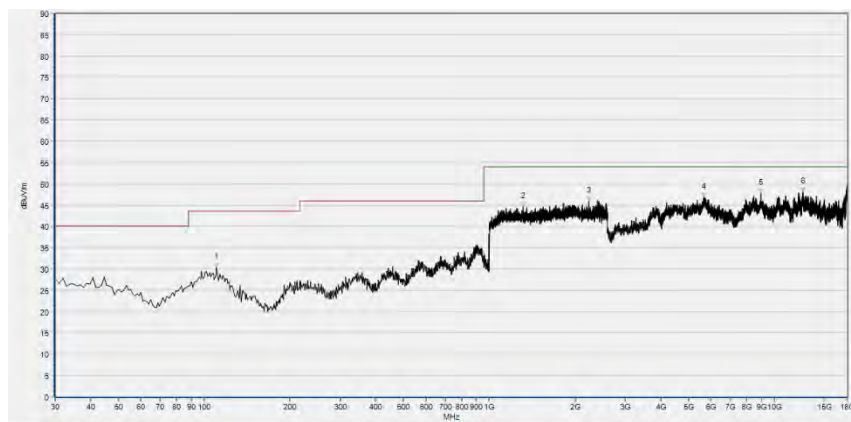


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
105.660	32.27	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1692.800	45.84	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3899.760	44.91	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5664.600	46.82	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7993.080	46.63	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12557.640	47.46	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

**802.11ax (HEW20) RU26 Mode**

Plot for Channel 1



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
110.510	30.35	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1313.067	44.57	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2234.667	45.85	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5649.200	46.83	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8972.520	47.75	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12588.440	48.06	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

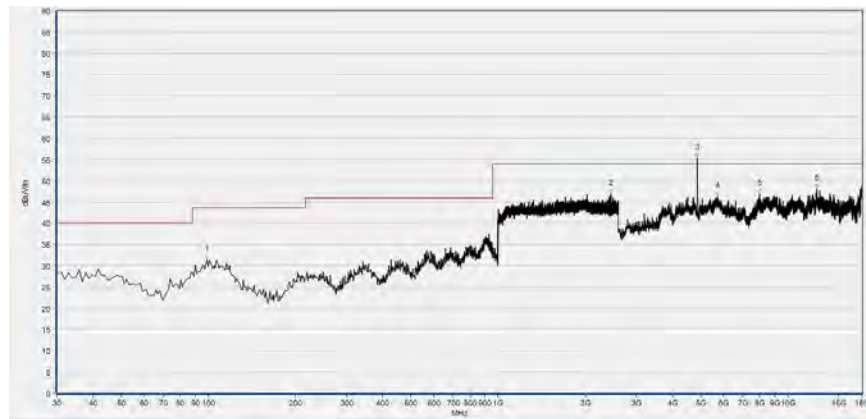
(Antenna Horizontal, 30MHz to 18GHz)



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
107.600	31.51	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2404.267	47.01	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3733.440	44.29	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5689.240	46.75	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8411.960	46.75	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12862.560	47.74	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

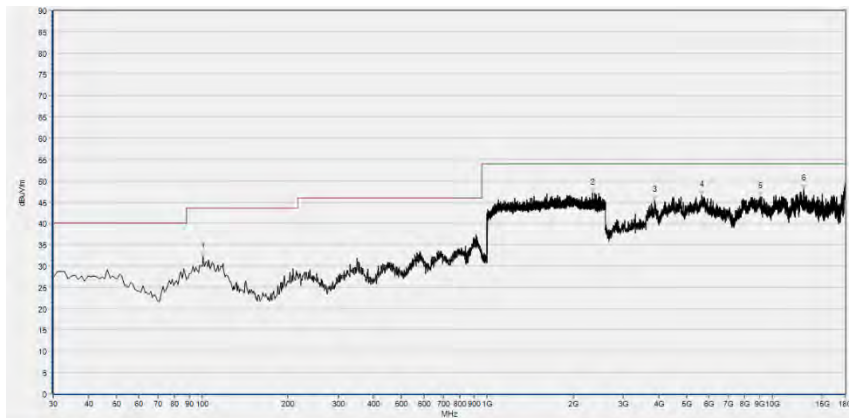
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 6



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
98.870	31.37	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2455.467	46.93	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4879.200	55.29	N/A	43.30	74.00	N/A	54.00	Horizontal	PASS
5707.720	46.22	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7971.520	46.84	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12585.360	48.04	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

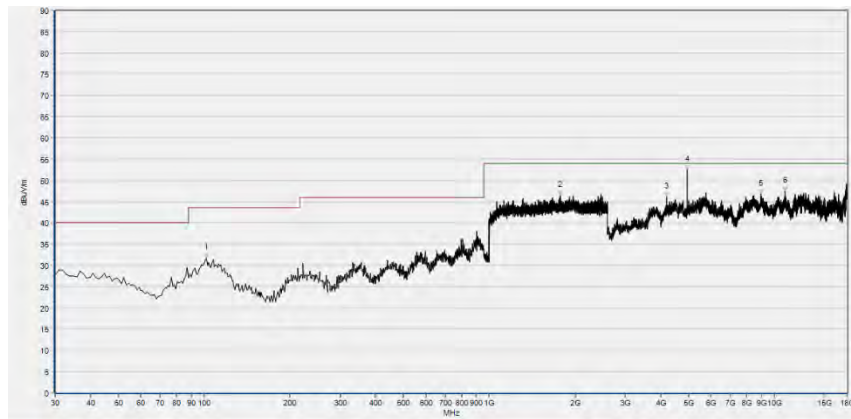


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
100.810	32.15	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2337.600	47.11	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3868.960	45.36	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5661.520	46.57	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9080.320	46.23	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12877.960	48.09	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

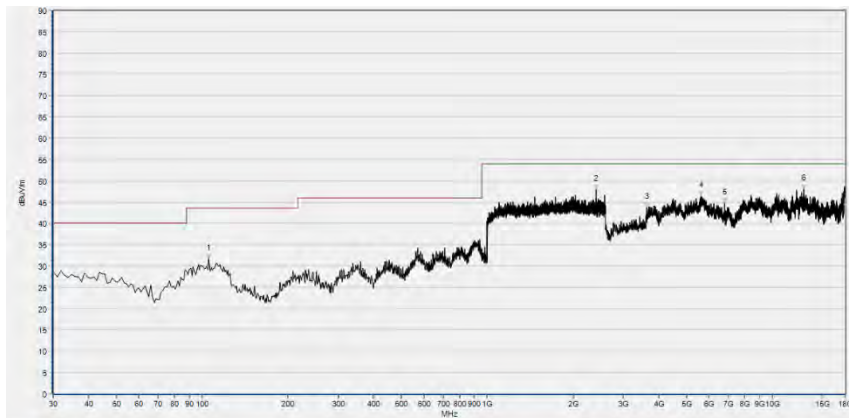


Plot for Channel 11



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
101.780	31.66	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1774.933	46.45	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4183.120	46.10	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4940.800	52.46	N/A	45.19	74.00	N/A	54.00	Horizontal	PASS
8941.720	46.73	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10903.680	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
105.660	31.73	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2410.667	47.88	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3616.400	43.69	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5609.160	46.39	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
6810.360	44.77	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12896.440	48.07	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	$\pm 5\%$
Conducted Spurious Emission	$\pm 2.77\text{dB}$
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 Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Attenuator 1	(N/A.)	10dB	Resent	N/A	N/A
EXA Signal Analyzer	MY53470836	N9010A	Agilent	2022.03.01	2023.02.28
USB Wideband Power Sensor	MY54180008	U2021XA	Agilent	2022.10.11	2023.10.10
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
Computer	T430i	Think Pad	Lenovo	N/A	N/A

4.2 Conducted Emission Test Equipments

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Receiver	MY56400093	N9038A	KEYSIGHT	2022.03.03	2023.03.02
LISN	812744	NSLK 8127	Schwarzbeck	2022.03.03	2023.03.02
Pulse Limiter (10dB)	VTSD 9561 F-B #206	VTSD 9561-F	Schwarzbeck	2022.07.06	2023.07.05
Coaxial cable(BNC) (30MHz-26GHz)	CB01	EMC01	Morlab	N/A	N/A

4.3 List of Software Used

Description	Manufacturer	Software Version
Test System	Townsend	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	2022.07.06	2023.07.05
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2022.05.25	2025.05.24
Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2022.02.11	2025.02.10
Test Antenna – Horn	01774	BBHA 9120D	Schwarzbeck	2022.07.13	2025.07.12
Test Antenna – Horn	BBHA9170#773	BBHA 9170	Schwarzbeck	2022.07.14	2025.07.13
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	S020180L3203	Tonscend	2022.07.08	2023.07.07
18-26.5GHz pre-Amplifier	46732	S10M100L3802	Tonscend	2022.07.08	2023.07.07
26-40GHz pre-Amplifier	56774	S40M400L4002	Tonscend	2022.07.08	2023.07.07
Notch Filter	N/A	WRCG-2400-2483.5-60SS	Wainwright	2022.07.08	2023.07.07
Anechoic Chamber	N/A	9m*6m*6m	CRT	2020.01.06	2023.01.05

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