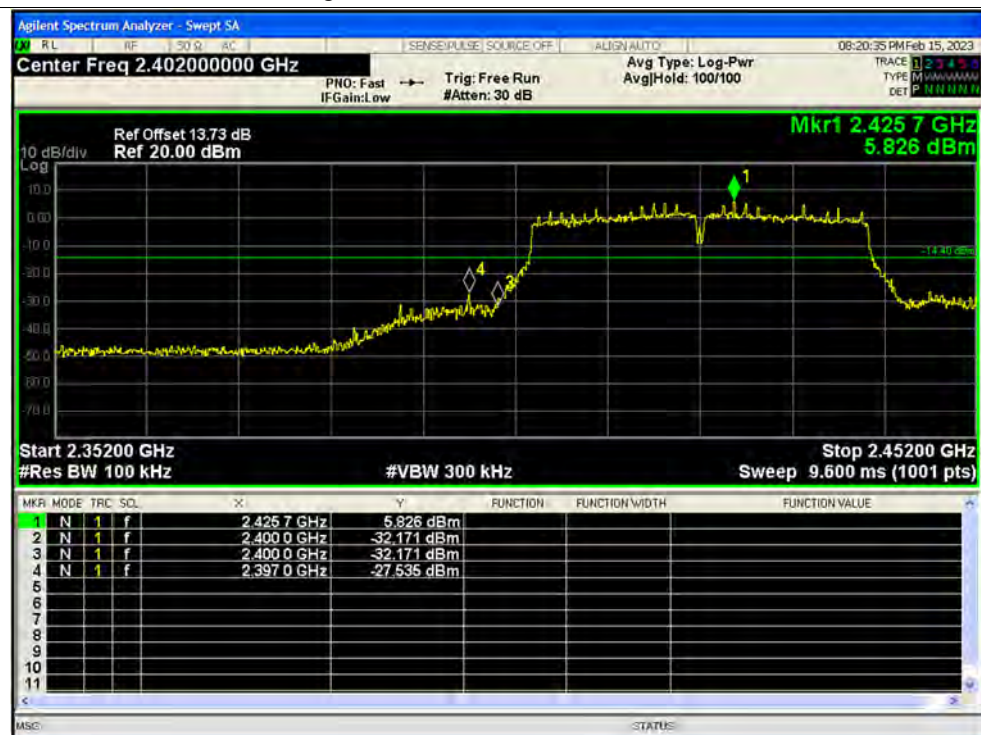


Band Edge NVNT n40 2422MHz Ant1 Ref



Band Edge NVNT n40 2422MHz Ant1 Emission



Band Edge NVNT n40 2452MHz Ant1 Ref



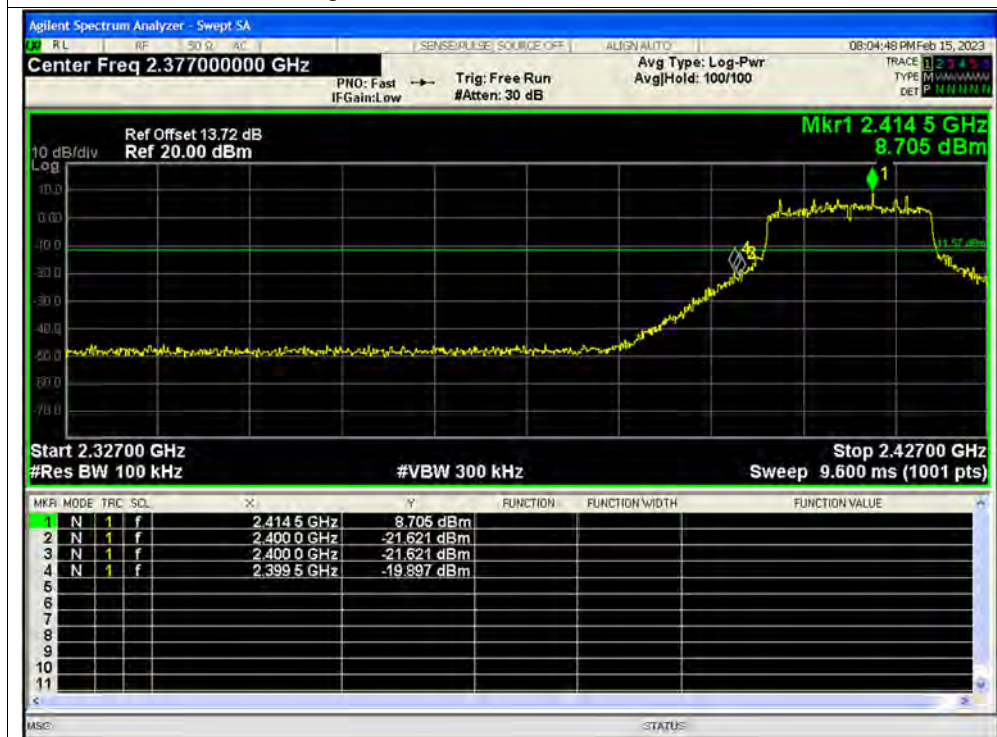
Band Edge NVNT n40 2452MHz Ant1 Emission



Band Edge NVNT ac20 2412MHz Ant1 Ref



Band Edge NVNT ac20 2412MHz Ant1 Emission



Band Edge NVNT ac20 2462MHz Ant1 Ref



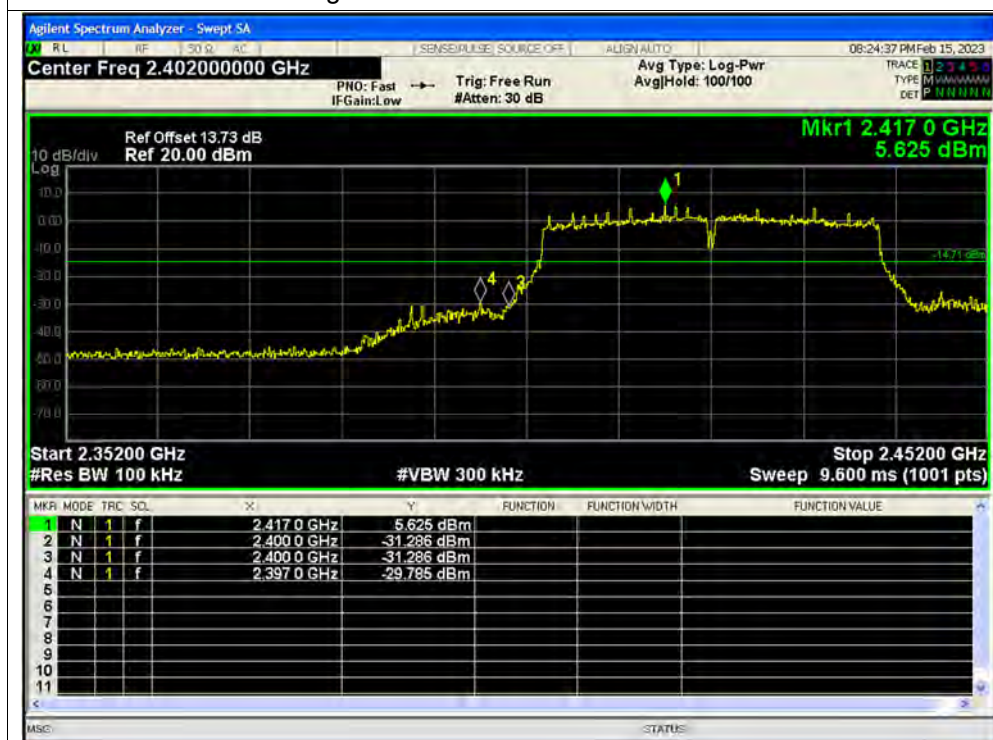
Band Edge NVNT ac20 2462MHz Ant1 Emission



Band Edge NVNT ac40 2422MHz Ant1 Ref



Band Edge NVNT ac40 2422MHz Ant1 Emission



Band Edge NVNT ac40 2452MHz Ant1 Ref



Band Edge NVNT ac40 2452MHz Ant1 Emission



**A.7. Power Spectral Density**

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	2.38	0	2.38	8	Pass
NVNT	b	2437	Ant1	-3.45	0	-3.45	8	Pass
NVNT	b	2462	Ant1	1.54	0	1.54	8	Pass
NVNT	g	2412	Ant1	-6.11	0	-6.11	8	Pass
NVNT	g	2437	Ant1	-6.44	0	-6.44	8	Pass
NVNT	g	2462	Ant1	-6.97	0	-6.97	8	Pass
NVNT	n20	2412	Ant1	-6.24	0	-6.24	8	Pass
NVNT	n20	2437	Ant1	-6.33	0	-6.33	8	Pass
NVNT	n20	2462	Ant1	-6.3	0	-6.3	8	Pass
NVNT	n40	2422	Ant1	-8.75	0	-8.75	8	Pass
NVNT	n40	2437	Ant1	-9.02	0	-9.02	8	Pass
NVNT	n40	2452	Ant1	-9.17	0	-9.17	8	Pass
NVNT	ac20	2412	Ant1	-6.21	0	-6.21	8	Pass
NVNT	ac20	2437	Ant1	-6.22	0	-6.22	8	Pass
NVNT	ac20	2462	Ant1	-6.26	0	-6.26	8	Pass
NVNT	ac40	2422	Ant1	-9.46	0	-9.46	8	Pass
NVNT	ac40	2437	Ant1	-9.57	0	-9.57	8	Pass
NVNT	ac40	2452	Ant1	-9.31	0	-9.31	8	Pass

Test Graphs

PSD NVNT b 2412MHz Ant1



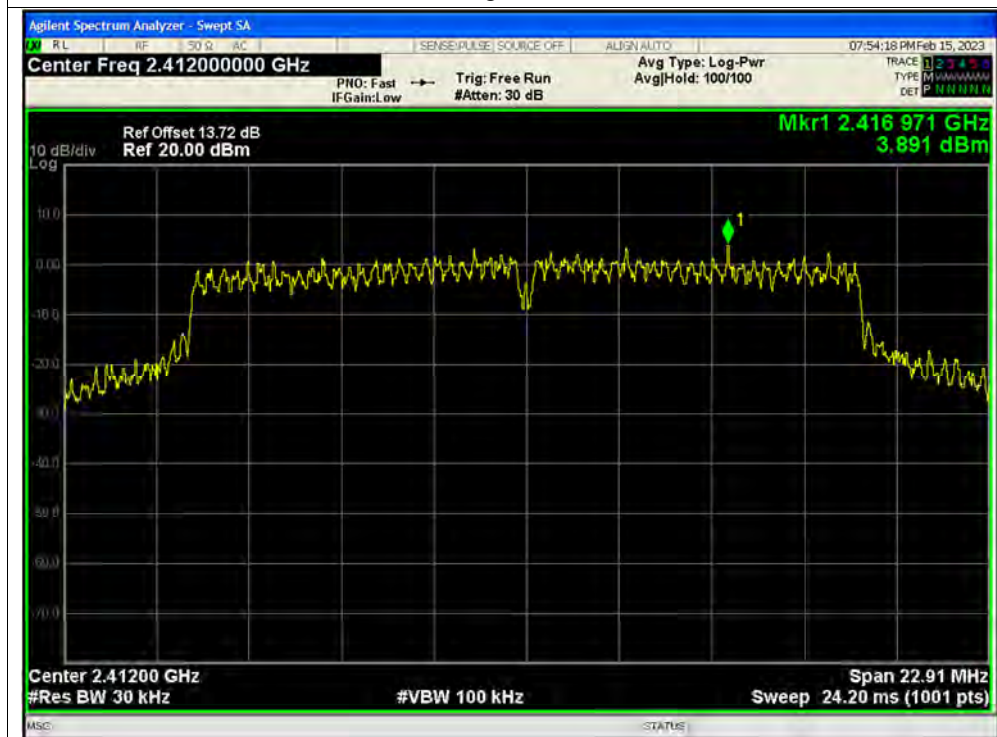
PSD NVNT b 2437MHz Ant1



PSD NVNT b 2462MHz Ant1



PSD NVNT g 2412MHz Ant1



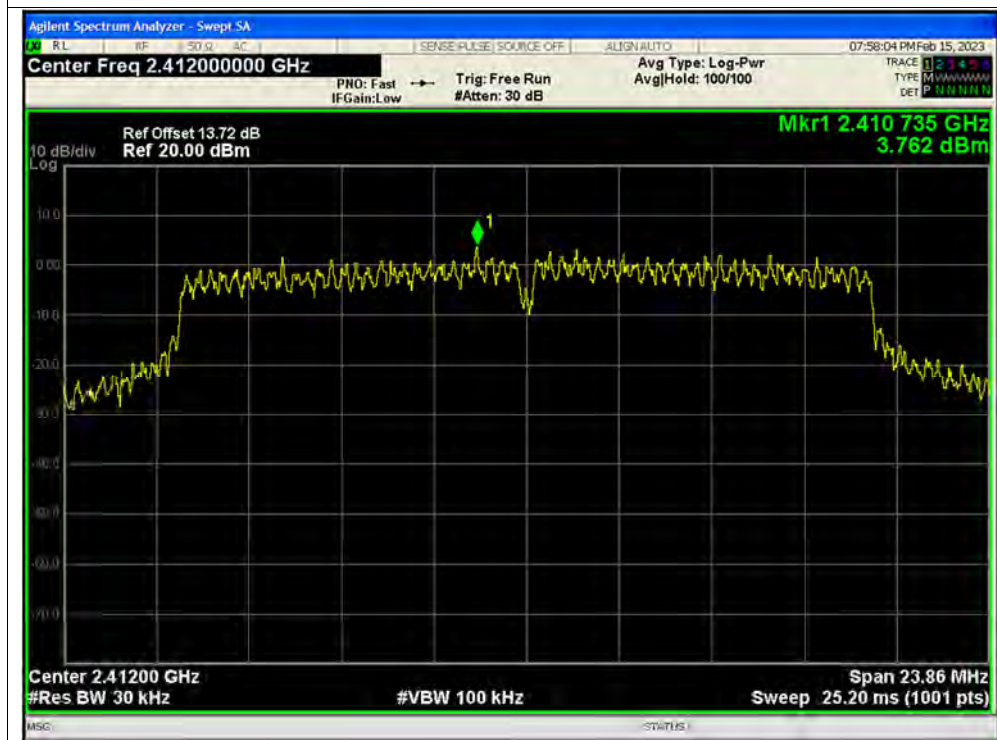
PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1



PSD NVNT n20 2412MHz Ant1

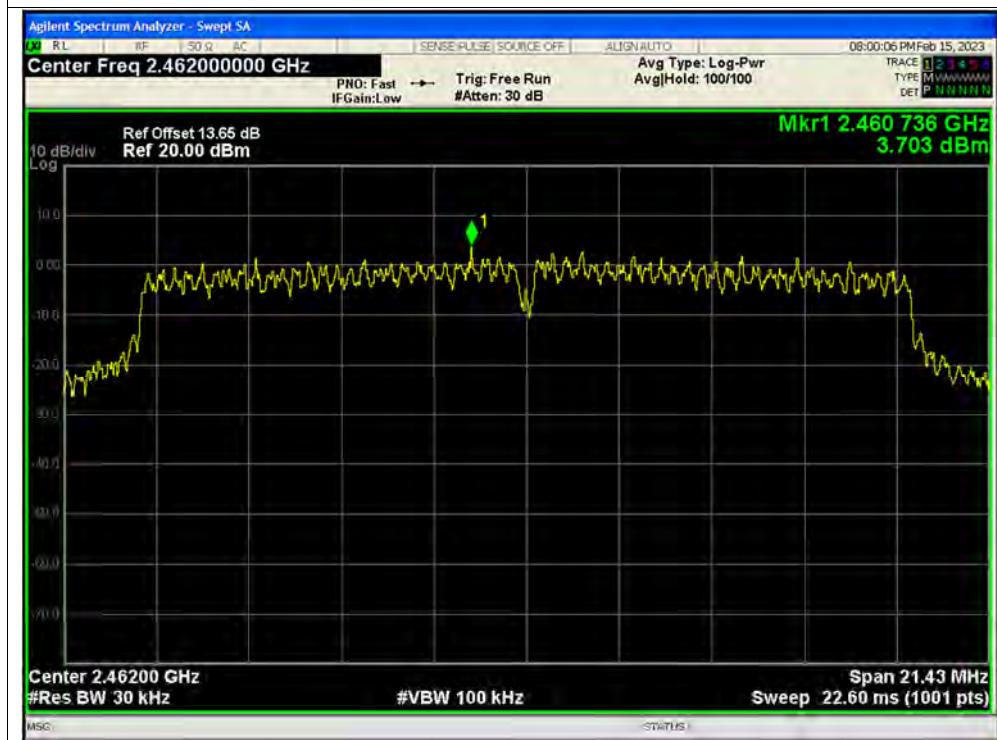


PSD NVNT n20 2437MHz Ant1

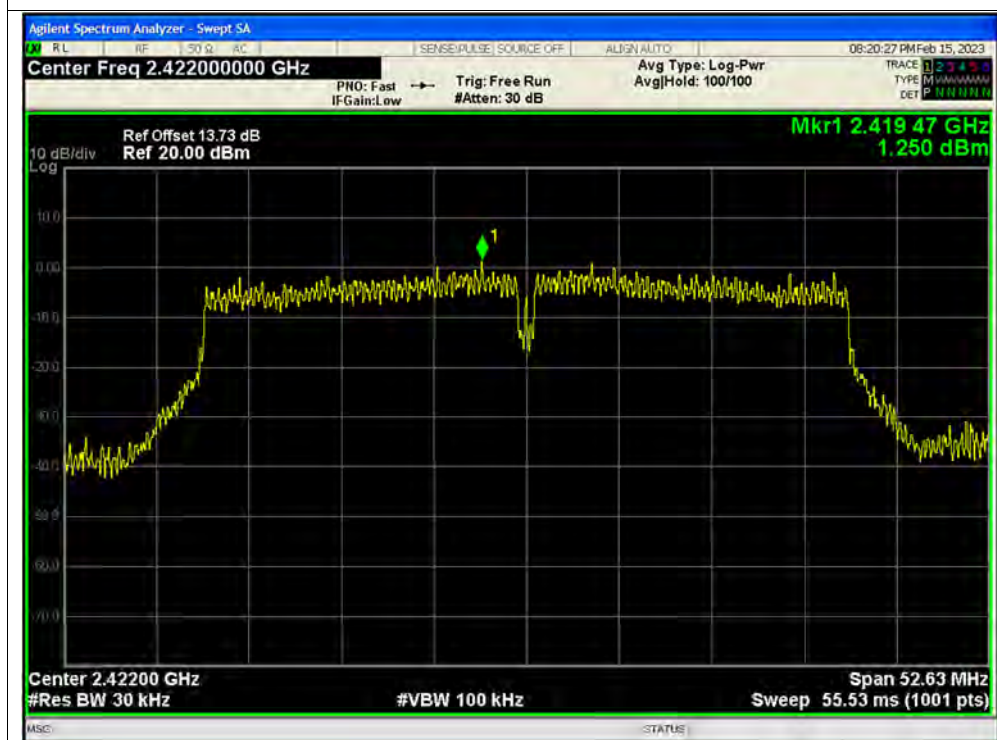




PSD NVNT n20 2462MHz Ant1

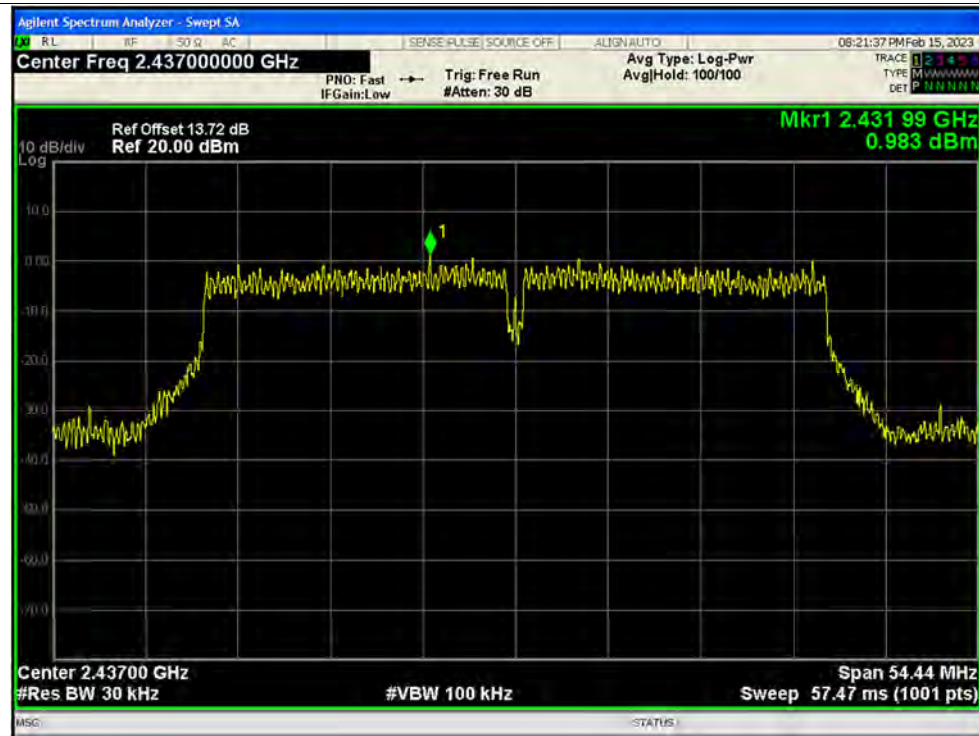


PSD NVNT n40 2422MHz Ant1





PSD NVNT n40 2437MHz Ant1



PSD NVNT n40 2452MHz Ant1

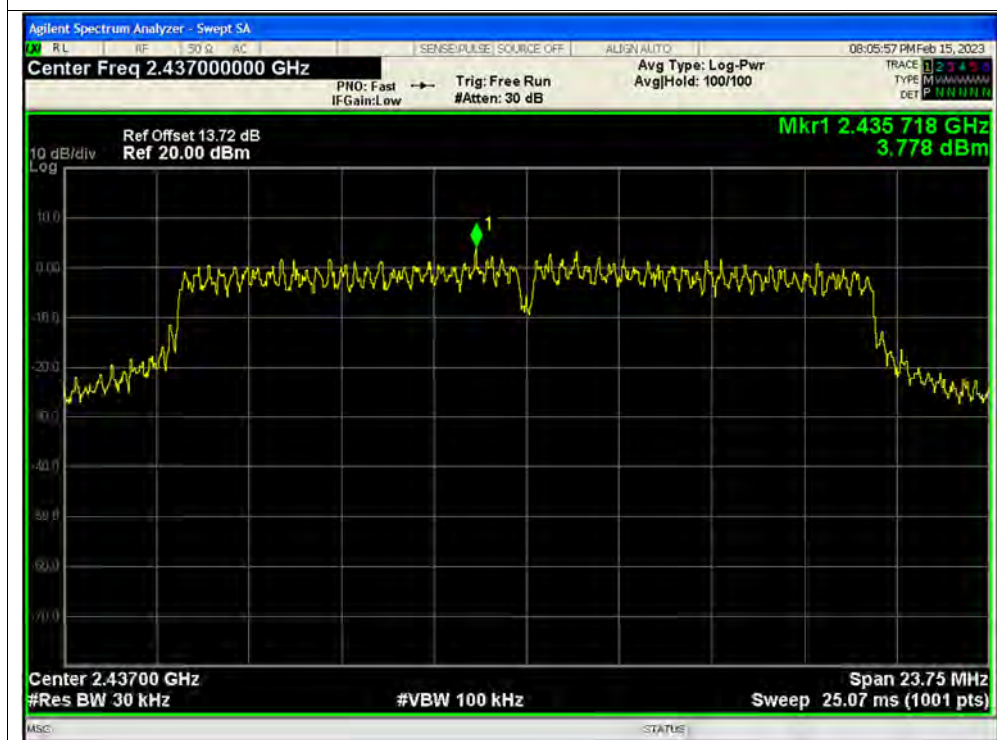




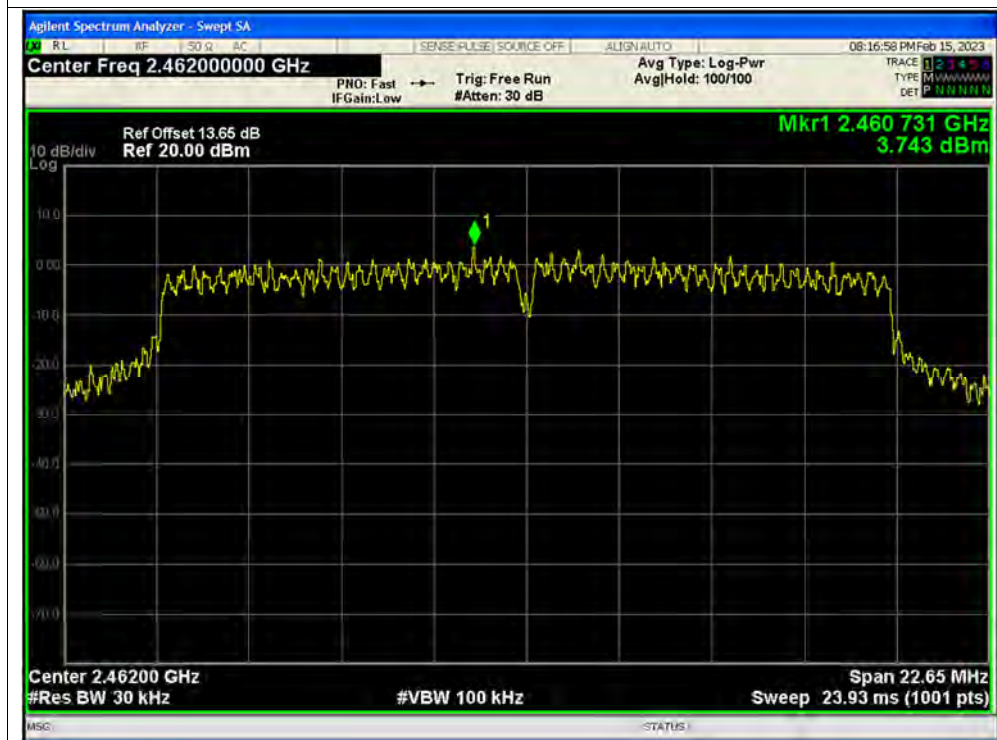
PSD NVNT ac20 2412MHz Ant1



PSD NVNT ac20 2437MHz Ant1



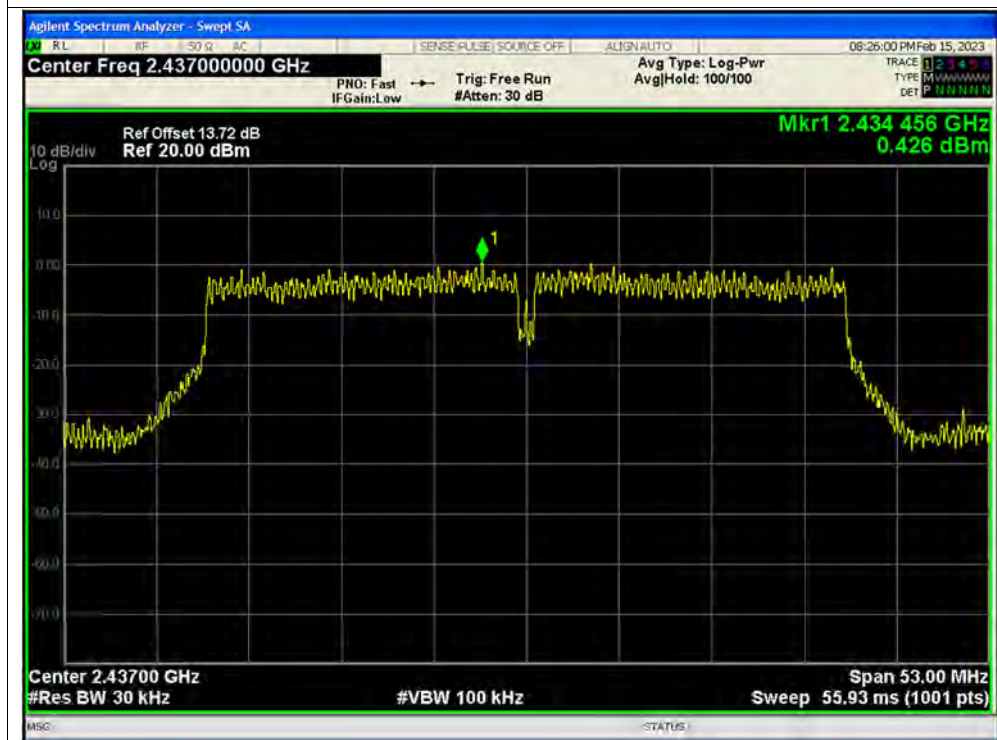
PSD NVNT ac20 2462MHz Ant1



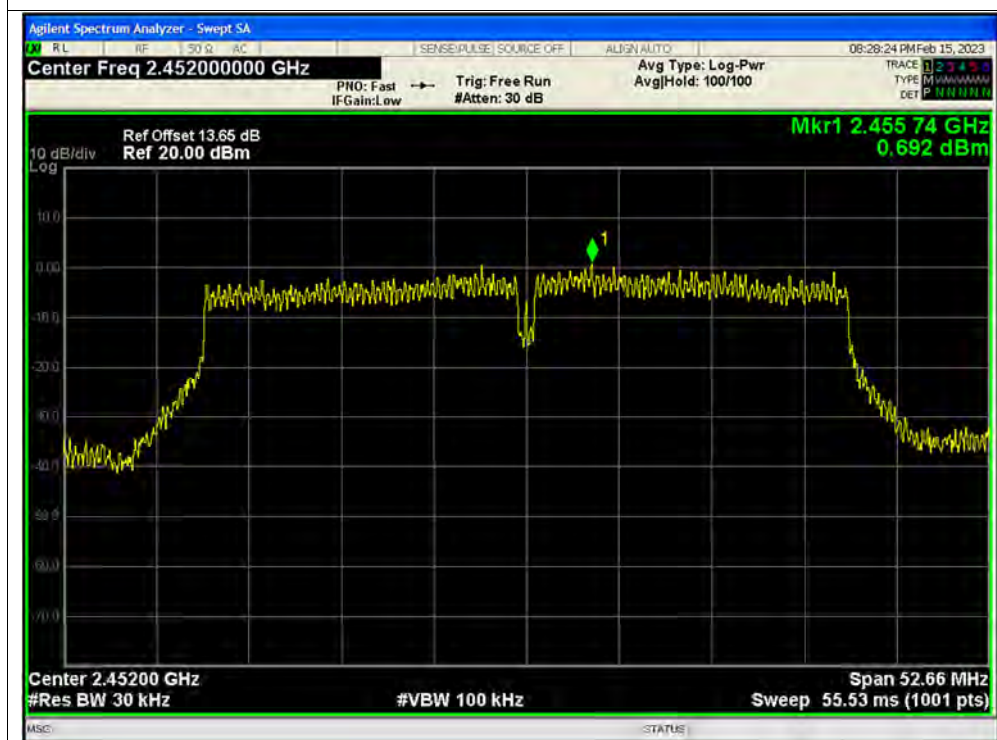
PSD NVNT ac40 2422MHz Ant1



PSD NVNT ac40 2437MHz Ant1



PSD NVNT ac40 2452MHz Ant1





A.8. Conducted Emission

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 + EARPHONE + WIFI TX

Test voltage: AC 120V/60Hz

The measurement results are obtained as below:

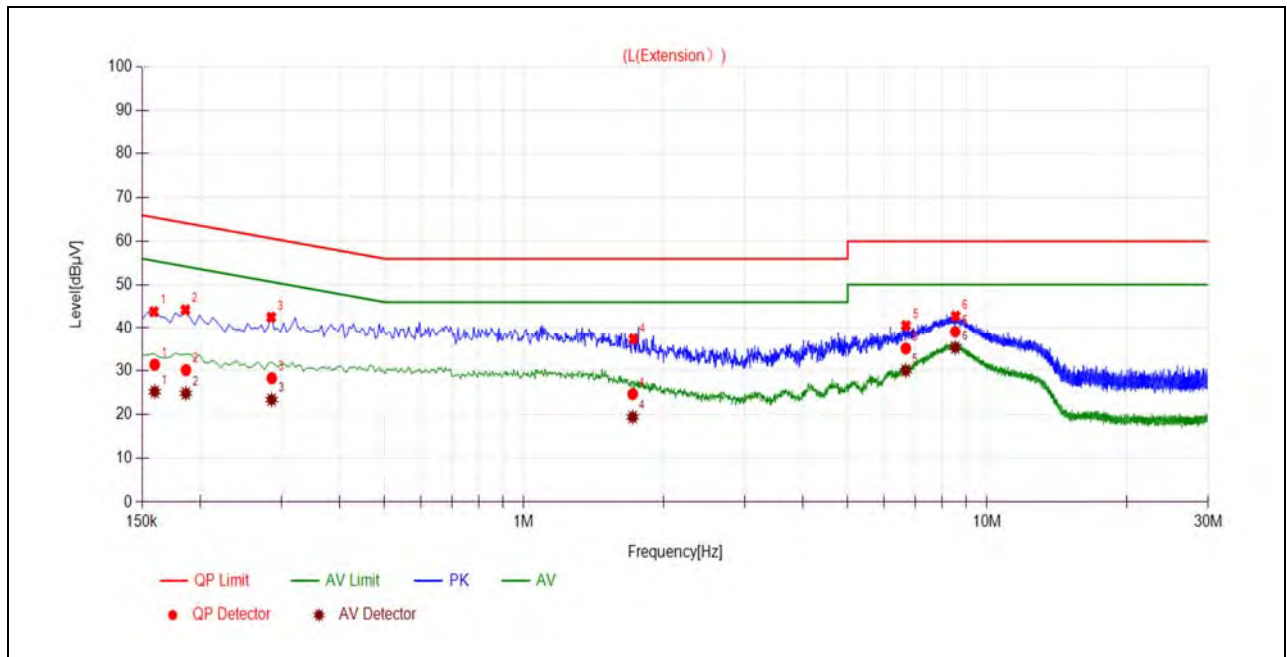
$$E \text{ [dB}\mu\text{V]} = U_R + L_{\text{Cable loss}} \text{ [dB]} + A_{\text{Factor}}$$

U_R : Receiver Reading

A_{Factor} : Voltage division factor of LISN

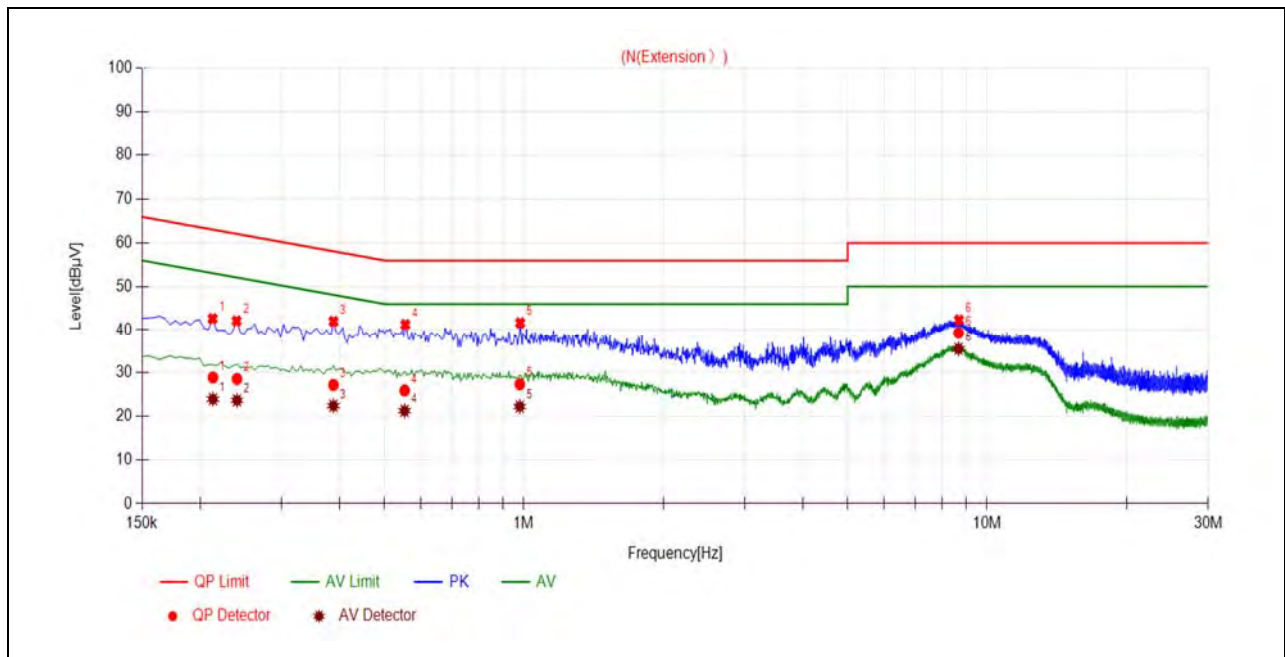


B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1597	31.41	25.21	65.48	55.48	Line	PASS
2	0.1865	30.15	24.82	64.19	54.19		PASS
3	0.2857	28.32	23.39	60.65	50.65		PASS
4	1.7179	24.66	19.39	56.00	46.00		PASS
5	6.6752	35.13	30.07	60.00	50.00		PASS
6	8.5342	39.09	35.35	60.00	50.00		PASS



(N Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.2133	28.92	23.91	63.08	53.08	Neutral	PASS
2	0.2404	28.57	23.64	62.08	52.08		PASS
3	0.3882	27.20	22.40	58.10	48.10		PASS
4	0.5530	25.91	21.25	56.00	46.00		PASS
5	0.9801	27.35	22.21	56.00	46.00		PASS
6	8.6765	39.27	35.54	60.00	50.00		PASS



A.9. Restricted Frequency Bands

The lowest and highest channels are tested to verify the 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

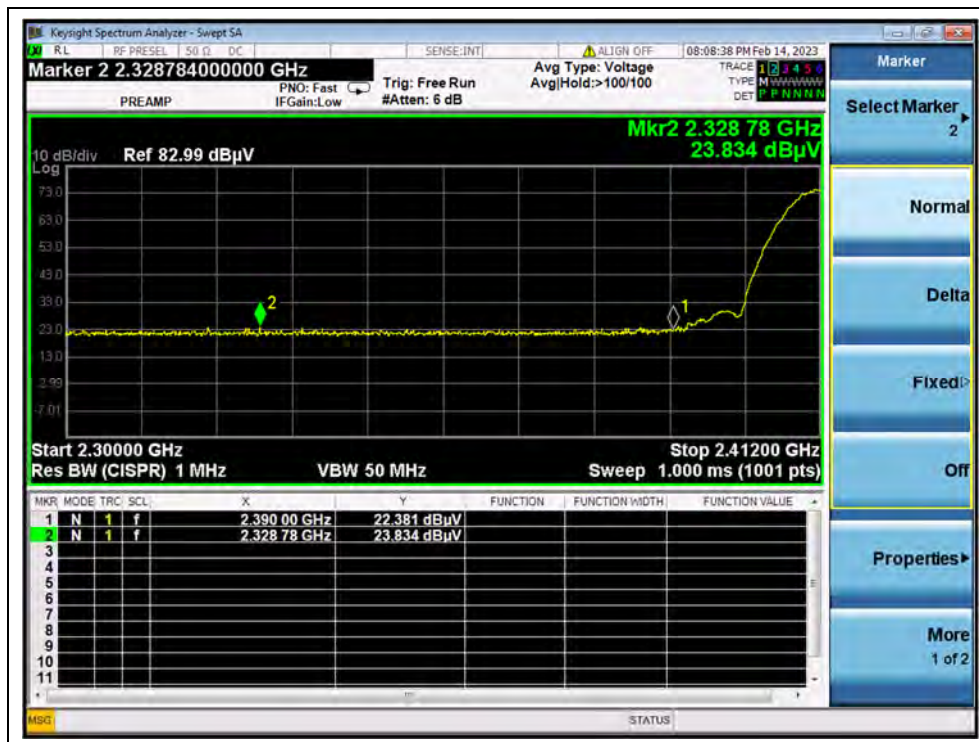
A_{Factor} : Antenna Factor at 3m

Note: 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.

802.11b Mode

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	2328.78	PK	23.83	6.74	27.20	57.77	74	PASS
1	2389.26	AV	11.70	6.74	27.20	45.64	54	PASS
11	2496.05	PK	23.59	6.74	27.20	57.53	74	PASS
11	2483.50	AV	12.72	6.74	27.20	46.66	54	PASS





(PEAK, Channel 1, 802.11b)



(AVERAGE, Channel 1, 802.11b)



(PEAK, Channel 11, 802.11b)

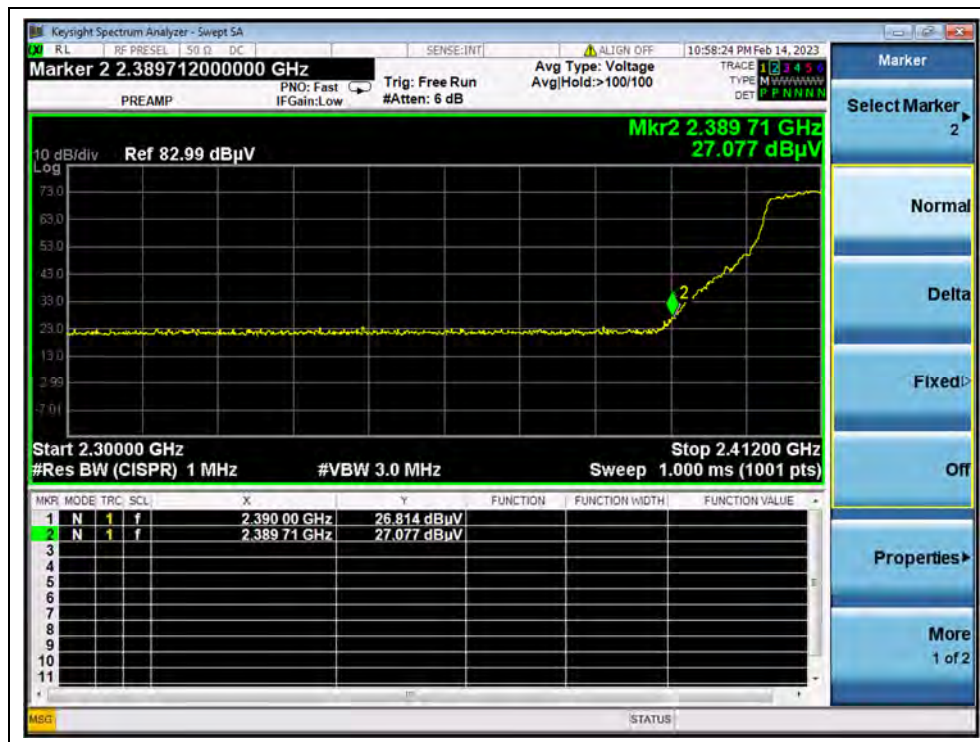


(AVERAGE, Channel 11, 802.11b)

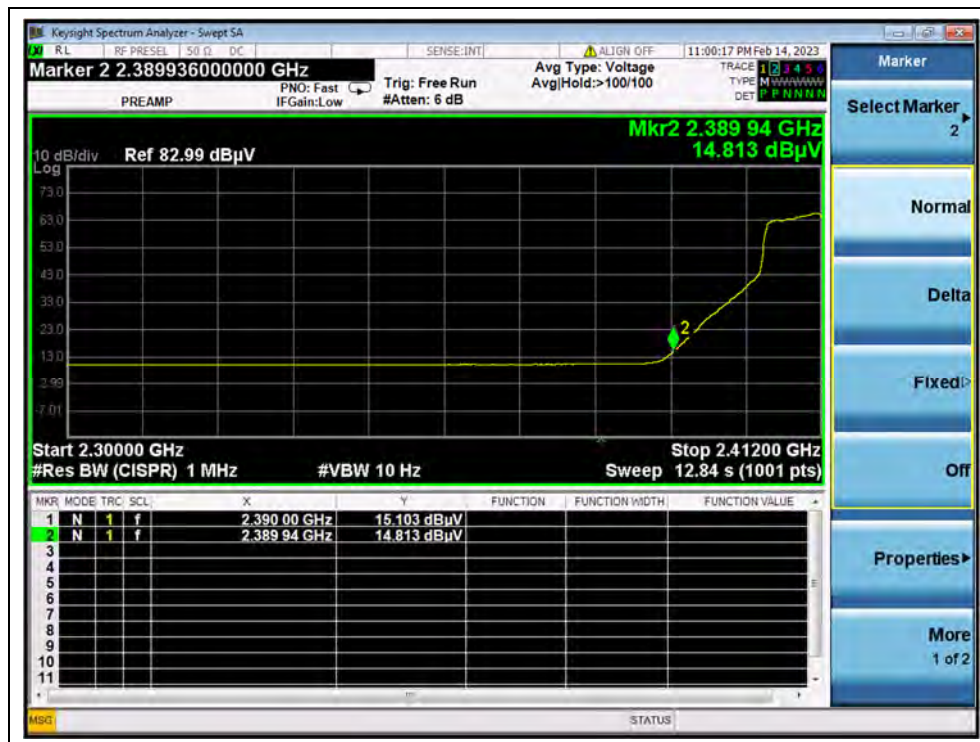


802.11g Mode

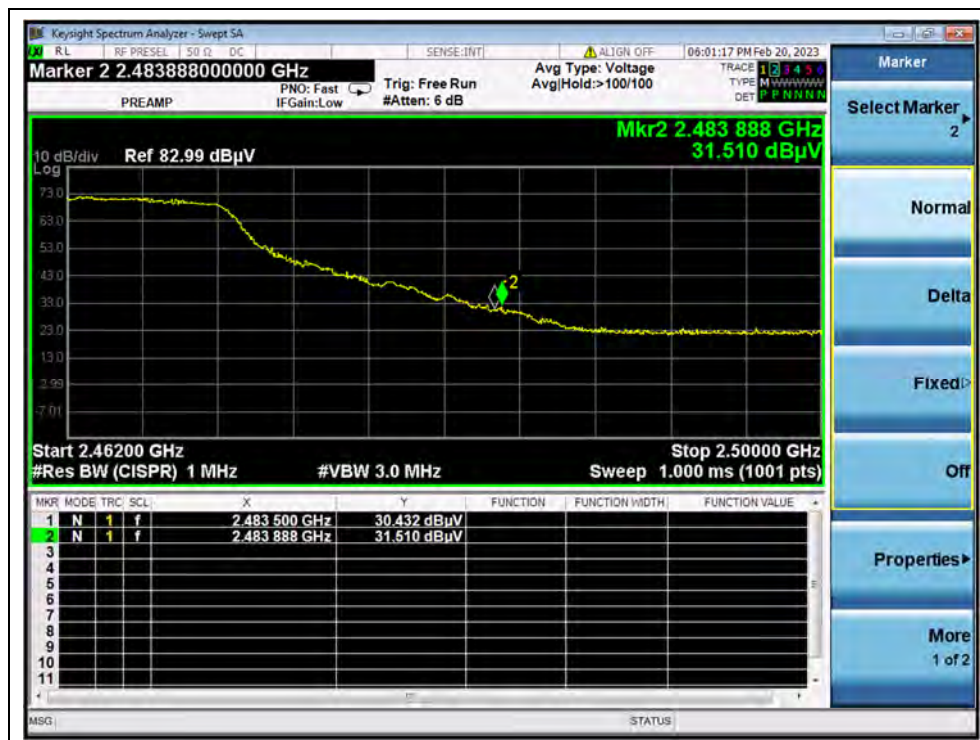
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
1	2389.71	PK	27.08	6.74	27.20	61.02	74	PASS
1	2390.00	AV	15.10	6.74	27.20	49.04	54	PASS
11	2483.89	PK	31.51	6.74	27.20	65.45	74	PASS
11	2483.50	AV	16.02	6.74	27.20	49.96	54	PASS



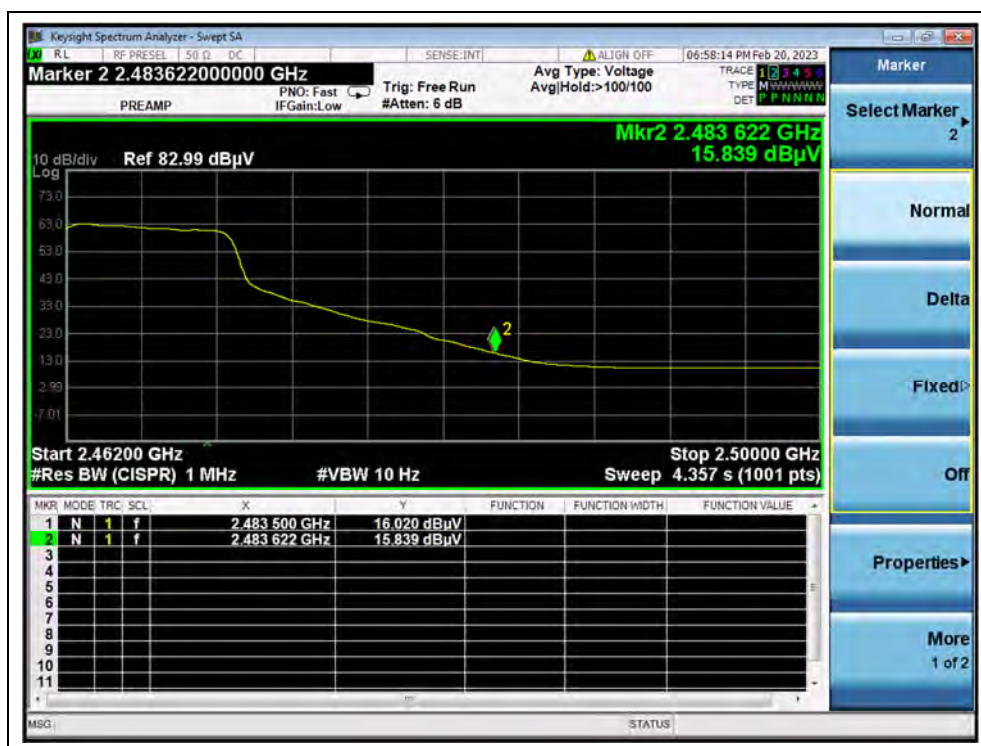
(PEAK, Channel 1, 802.11g)



(AVERAGE, Channel 1, 802.11g)



(PEAK, Channel 11, 802.11g)

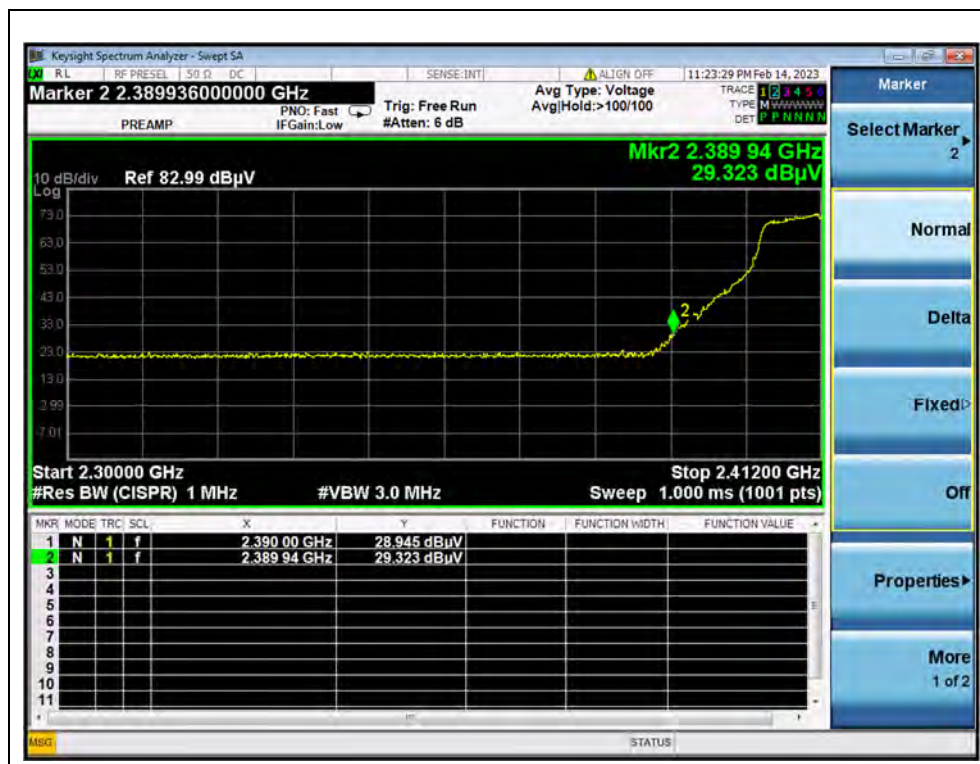


(AVERAGE, Channel 11, 802.11g)

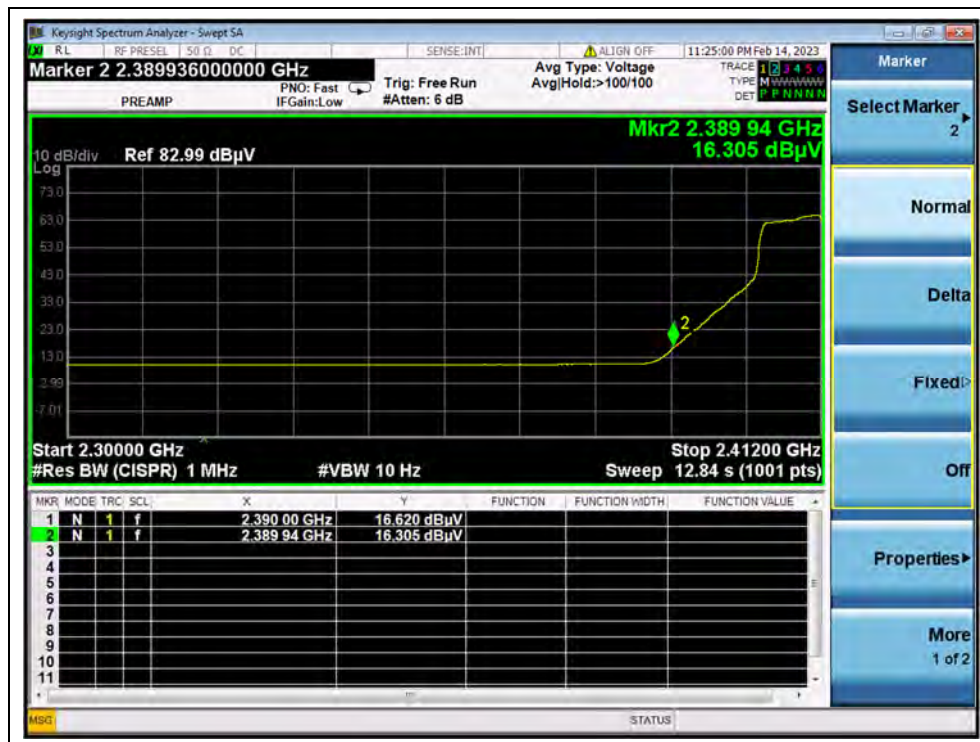


802.11 n (HT20) Mode

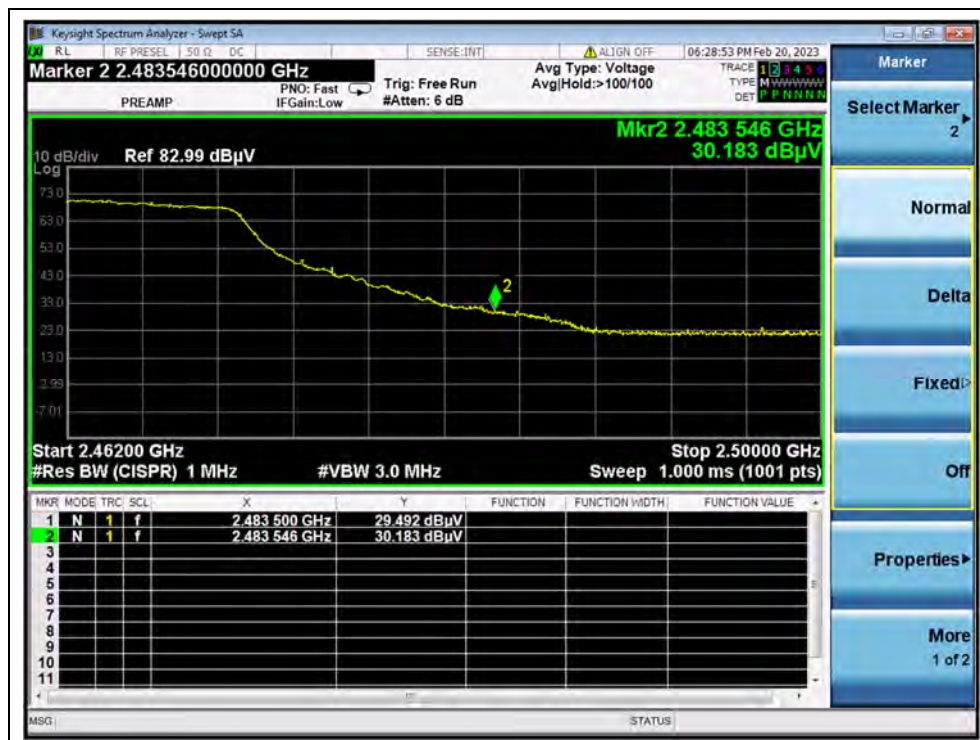
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
1	2389.94	PK	29.32	6.74	27.20	63.26	74	PASS
1	2390.00	AV	16.62	6.74	27.20	50.56	54	PASS
11	2483.55	PK	30.18	6.74	27.20	64.12	74	PASS
11	2483.50	AV	16.72	6.74	27.20	50.66	54	PASS



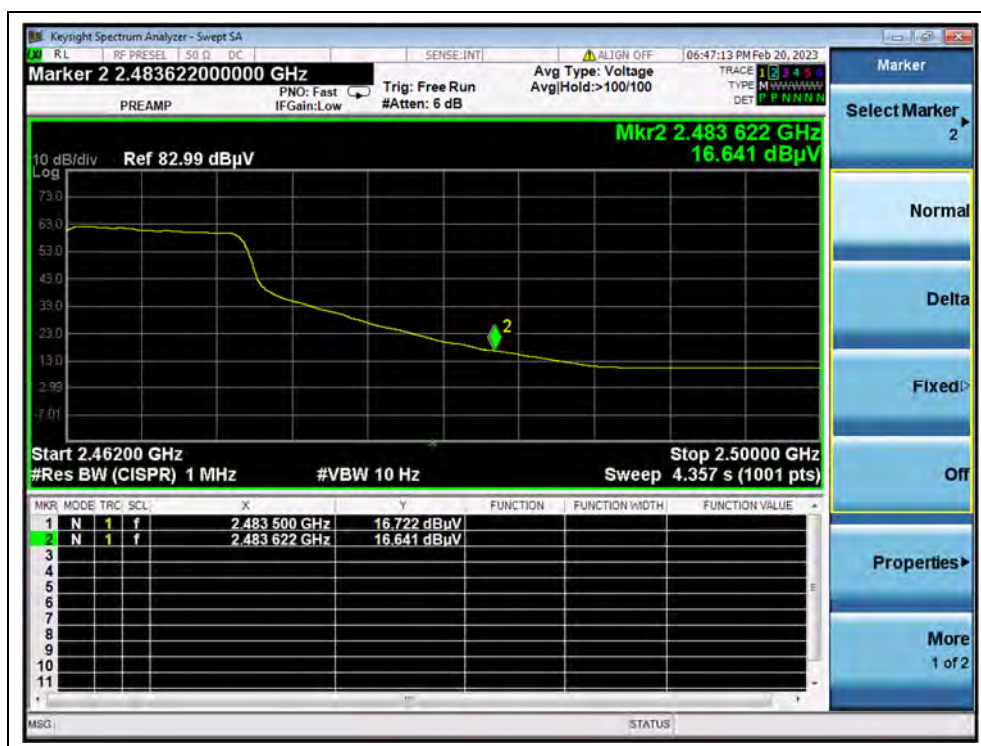
(PEAK, Channel 1, 802.11n (HT20))



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



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

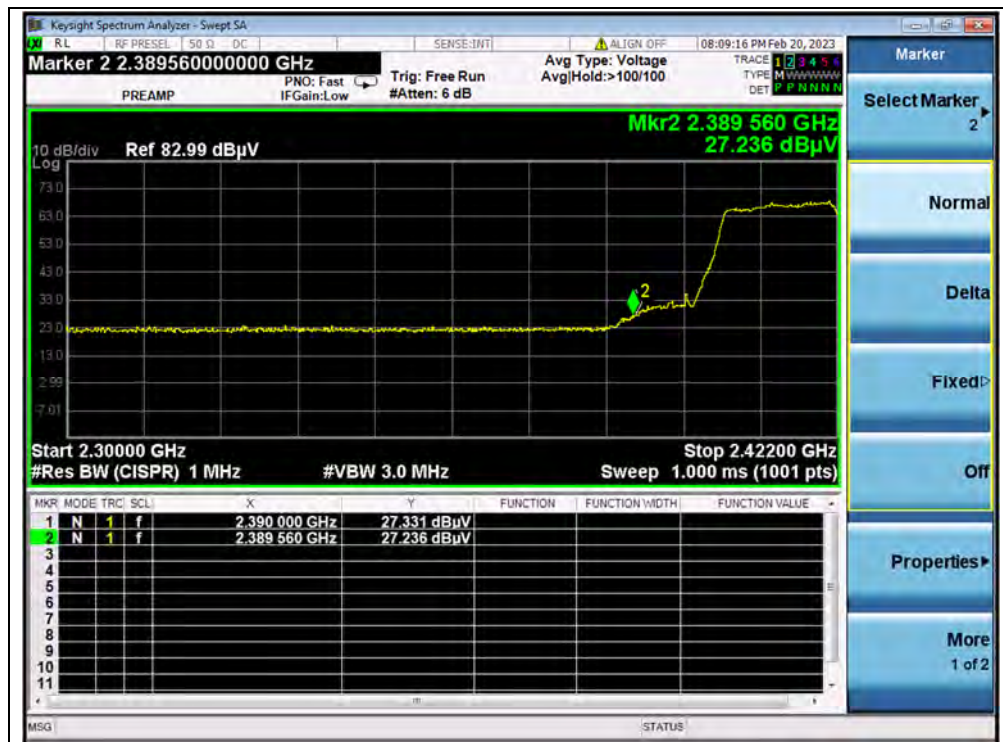


(AVERAGE, Channel 11, 802.11n (HT20))

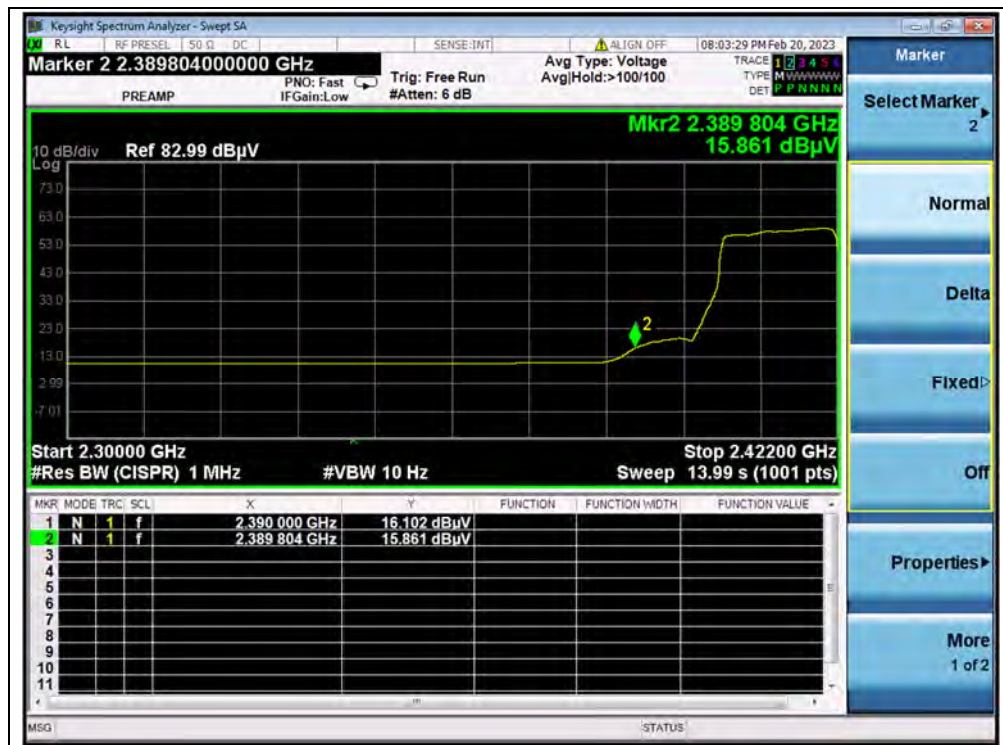


802.11n (HT40) Mode

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	2390.00	PK	27.33	6.74	27.20	61.27	74	PASS
3	2390.00	AV	16.10	6.74	27.20	50.04	54	PASS
9	2483.67	PK	27.90	6.74	27.20	61.84	74	PASS
9	2483.72	AV	16.18	6.74	27.20	50.12	54	PASS



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



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



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

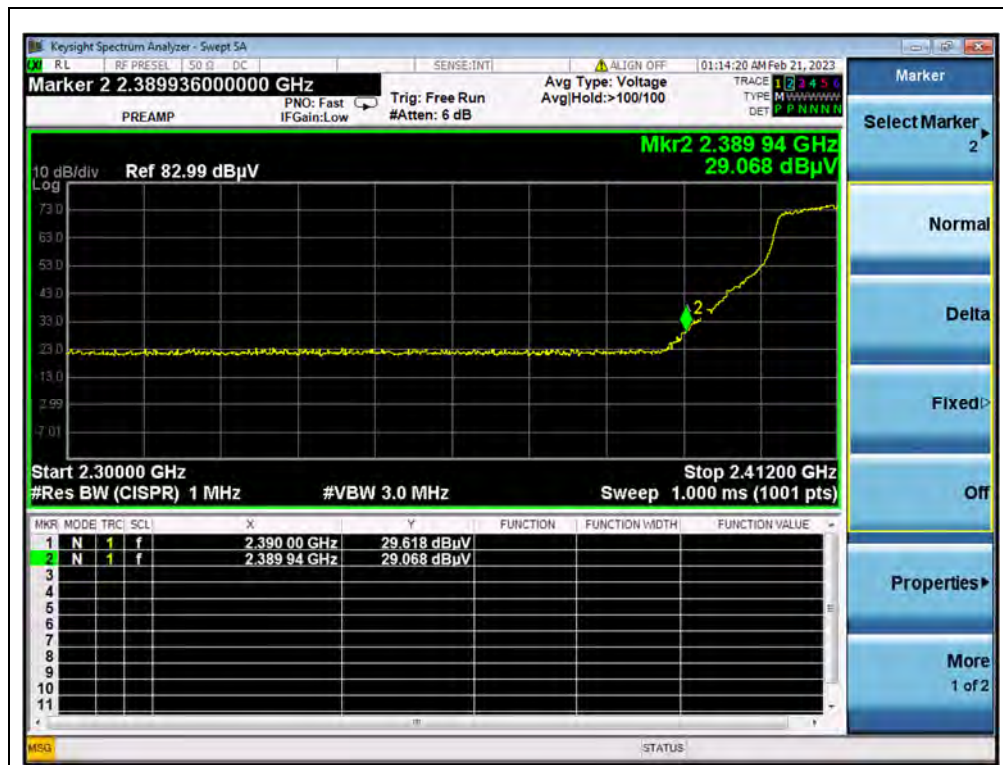


(AVERAGE, Channel 9, 802.11n (HT40))

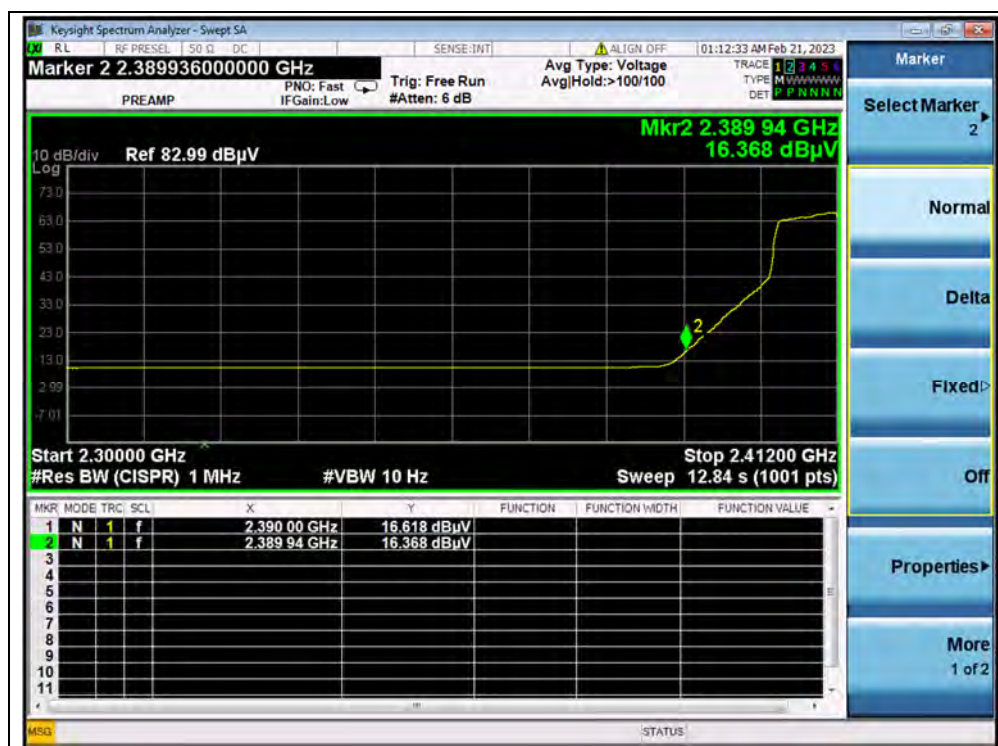


802.11ac (VHT20) Mode

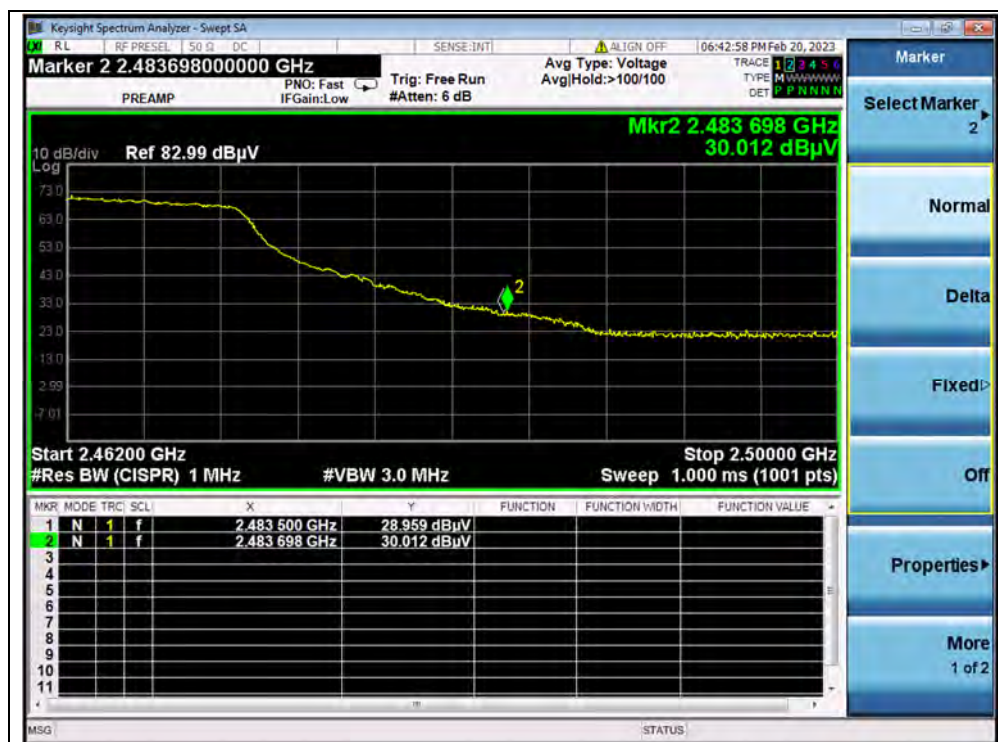
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
1	2390.00	PK	29.62	6.74	27.20	63.56	74	PASS
1	2390.00	AV	16.62	6.74	27.20	50.56	54	PASS
11	2483.70	PK	30.01	6.74	27.20	63.95	74	PASS
11	2483.50	AV	16.70	6.74	27.20	50.64	54	PASS



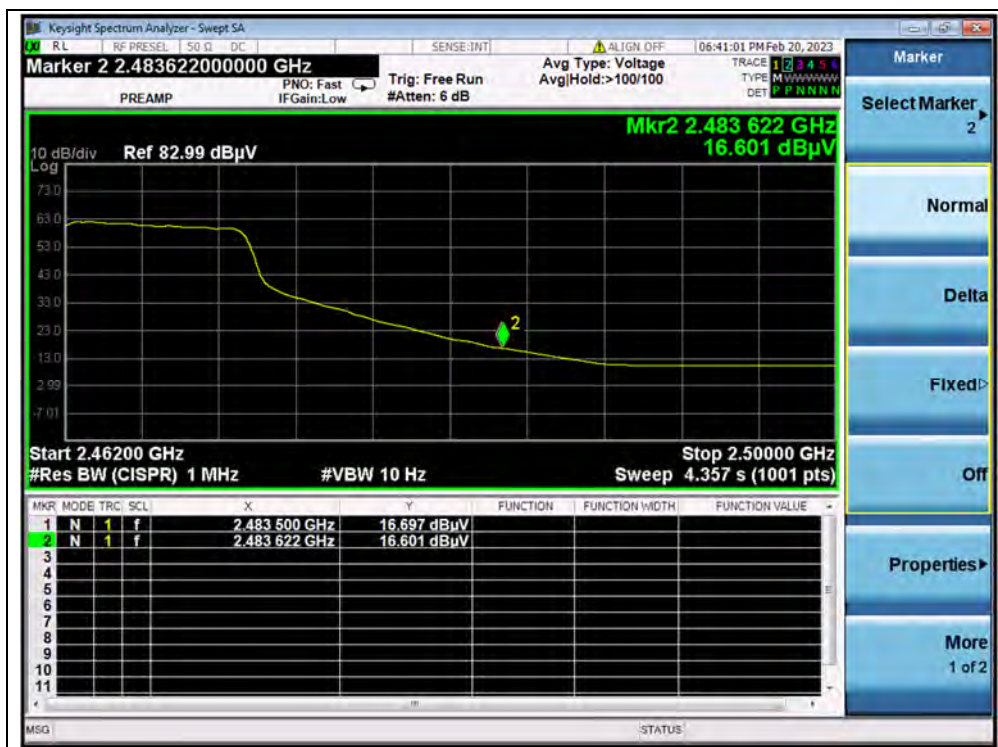
(PEAK, Channel 1, 802.11ac (VHT20))



(AVERAGE, Channel 1, 802.11ac (VHT20))



(PEAK, Channel 11, 802.11ac (VHT20))

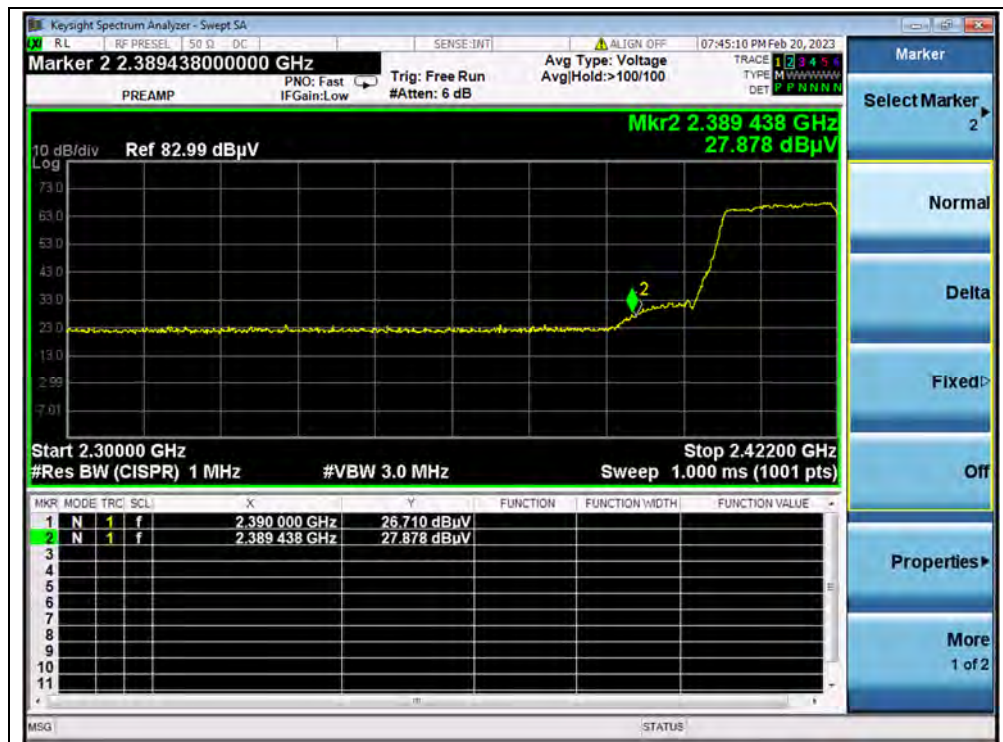


(AVERAGE, Channel 11, 802.11ac (VHT20))

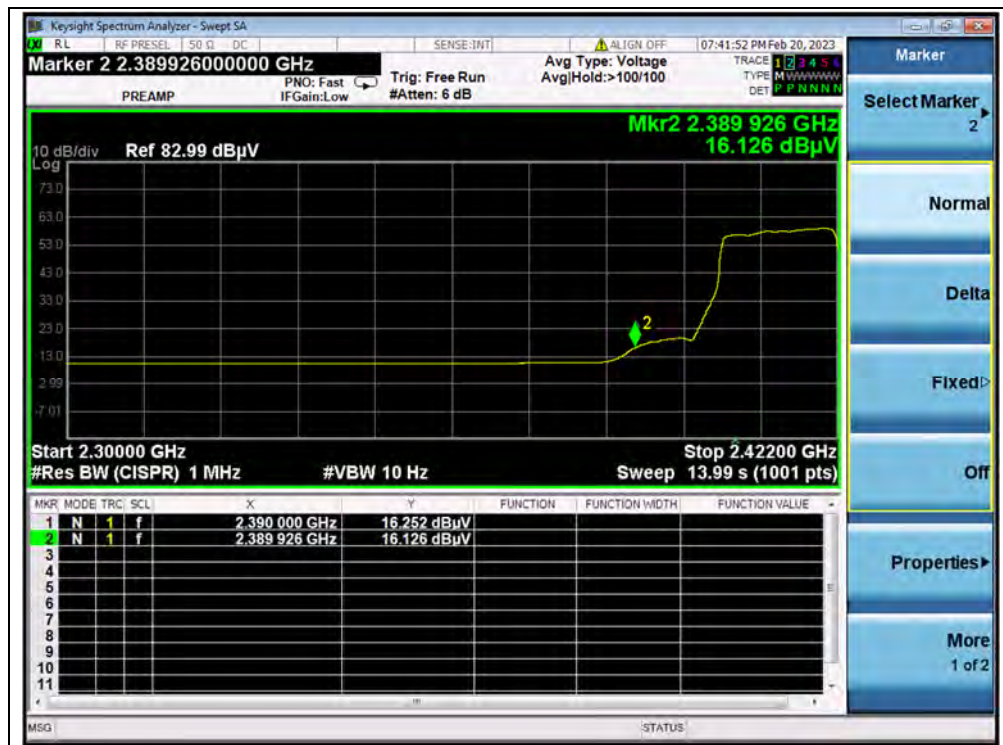


802.11ac (VHT40) Mode

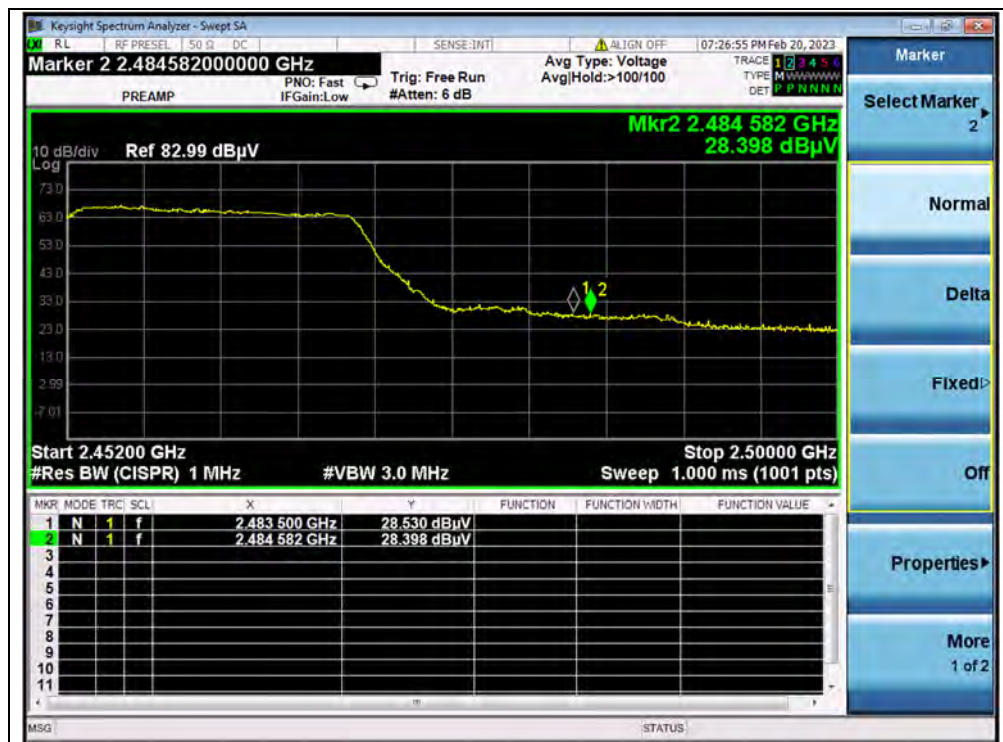
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
3	2389.44	PK	27.88	6.74	27.20	61.82	74	PASS
3	2390.00	AV	16.25	6.74	27.20	50.19	54	PASS
9	2483.50	PK	28.53	6.74	27.20	62.47	74	PASS
9	2483.62	AV	16.30	6.74	27.20	50.24	54	PASS



(PEAK, Channel 3, 802.11ac (VHT40))



(AVERAGE, Channel 3, 802.11ac (VHT40))



(PEAK, Channel 9, 802.11ac (VHT40))



(AVERAGE, Channel 9, 802.11ac (VHT40))



A.10. Radiated Emission

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.

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.

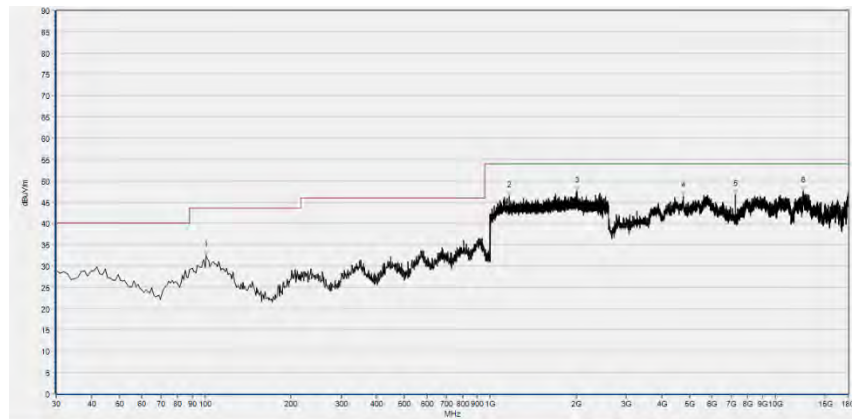
Note2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

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.



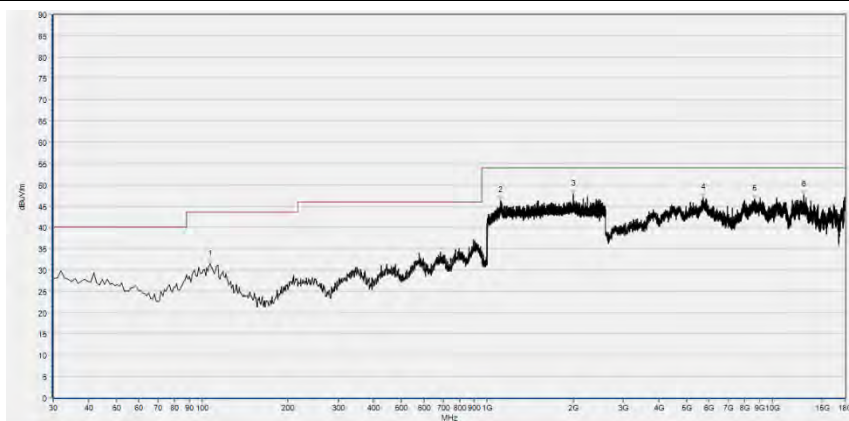
**802.11b Mode**

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
100.810	32.46	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1163.200	46.49	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2017.067	47.56	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4743.680	46.38	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7235.400	46.71	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12551.480	47.53	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

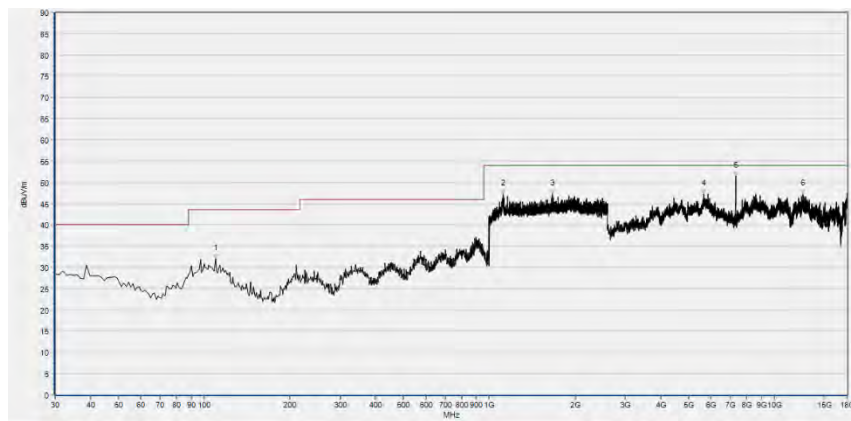


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
106.630	31.26	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1112.533	46.30	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1999.467	47.74	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5729.280	46.98	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8639.880	46.62	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12887.200	47.55	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

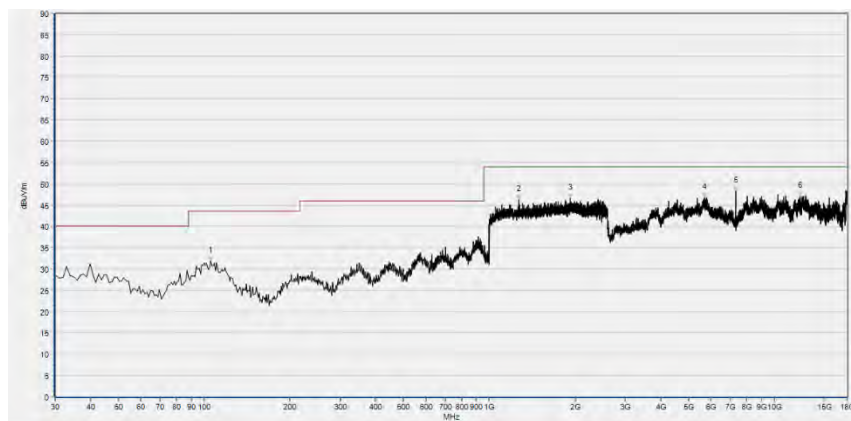


Plot for Channel 6



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
109.540	32.06	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1117.333	47.34	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1666.133	47.24	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5646.120	47.22	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7311.400	51.46	N/A	45.52	74.00	N/A	54.00	Horizontal	PASS
12613.080	47.32	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

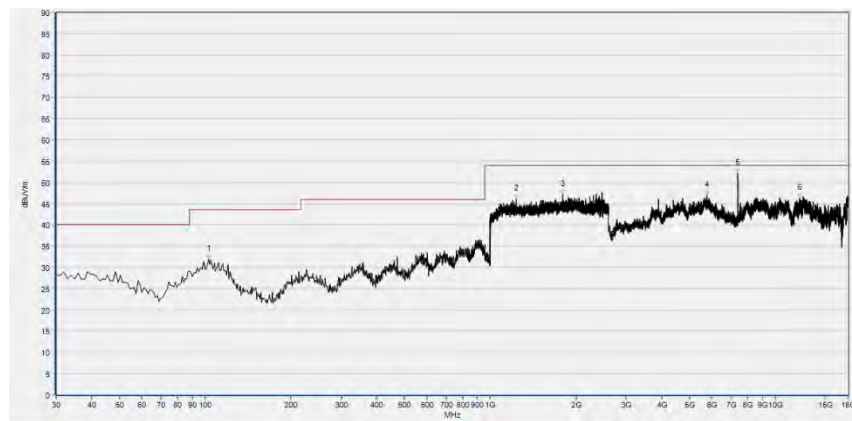


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
105.660	31.90	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1270.933	46.21	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1919.467	46.51	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5670.760	46.73	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7311.400	48.28	N/A	45.13	74.00	N/A	54.00	Vertical	PASS
12292.760	47.13	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

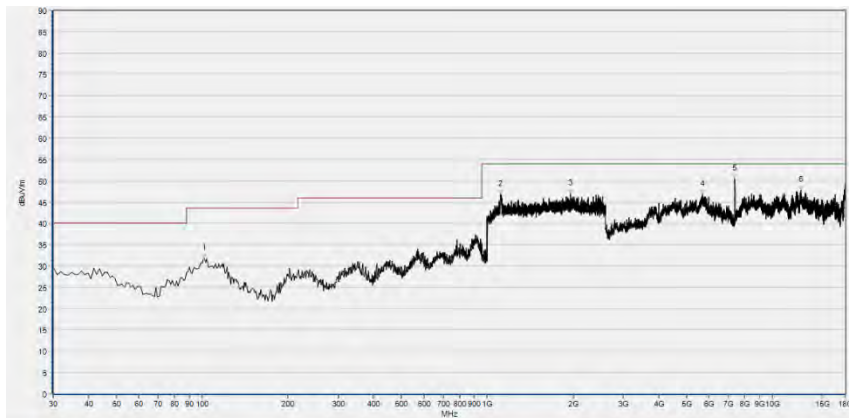


Plot for Channel 11



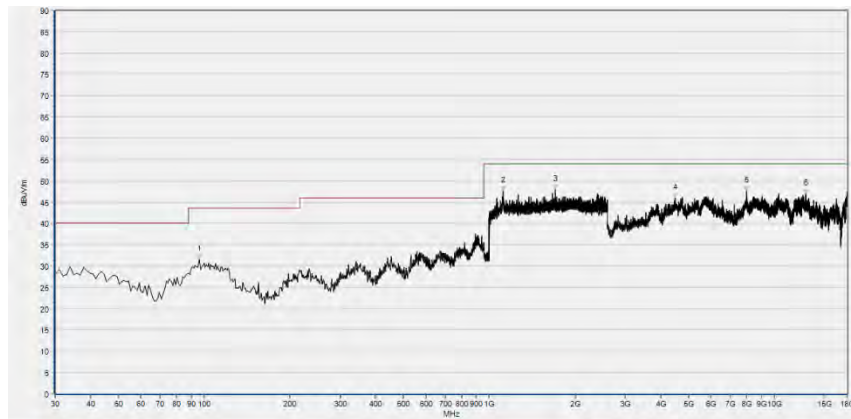
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
102.750	31.80	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1235.200	46.04	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1790.933	47.16	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5747.760	46.93	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7386.900	52.20	N/A	47.40	74.00	N/A	54.00	Horizontal	PASS
12151.080	46.18	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



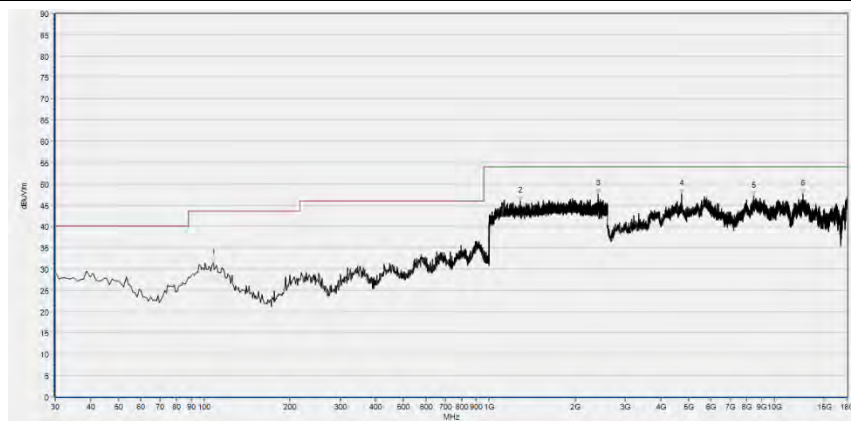
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
101.780	31.60	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1113.067	46.71	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1955.733	46.88	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5670.760	46.83	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7387.200	50.42	N/A	46.45	74.00	N/A	54.00	Vertical	PASS
12597.680	47.83	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
95.960	31.55	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1119.467	47.52	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1700.800	47.93	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4478.800	45.97	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8008.480	47.56	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12859.480	46.86	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

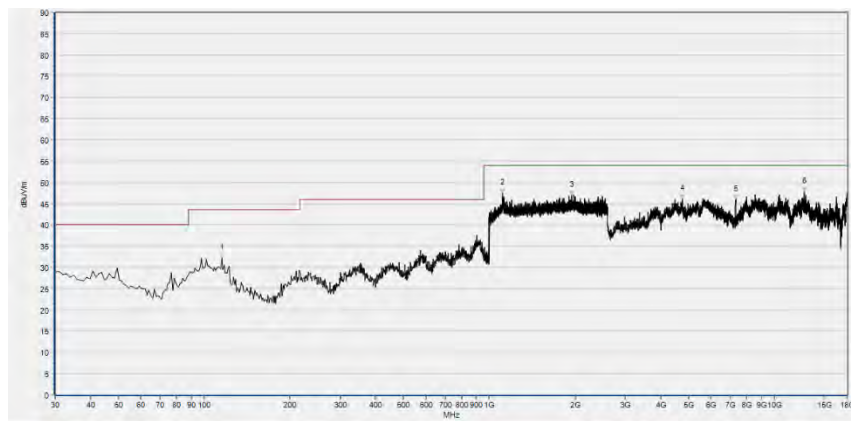


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
107.600	31.27	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1286.933	45.92	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2414.400	47.60	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4722.120	47.58	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8461.240	47.06	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12603.840	47.60	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

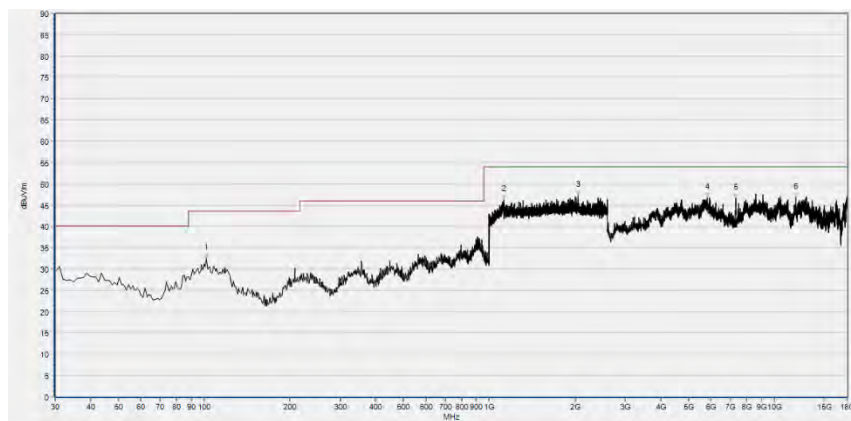


Plot for Channel 6



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
115.360	32.18	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1114.133	47.50	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1949.867	46.87	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4749.840	46.06	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7312.400	45.93	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12702.400	47.78	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

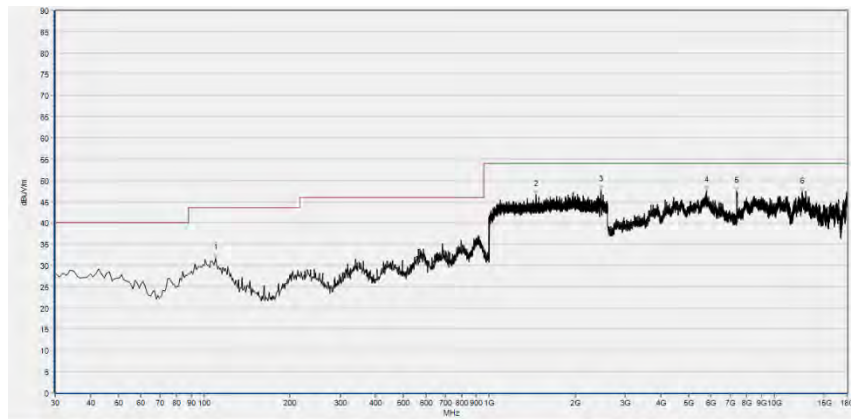


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
101.780	32.53	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1124.800	46.25	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2054.933	47.30	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5812.440	46.69	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7312.400	46.63	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
11870.800	46.69	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

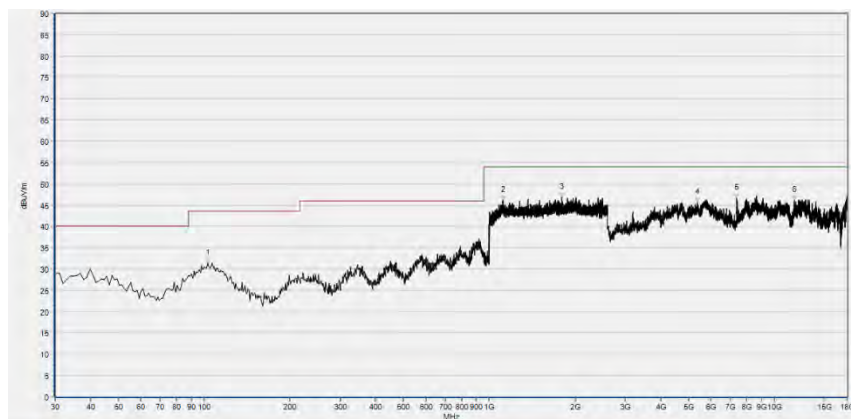


Plot for Channel 11



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
109.540	31.74	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1460.800	46.60	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2466.133	47.72	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5787.800	47.54	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7386.320	47.45	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12499.120	47.27	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

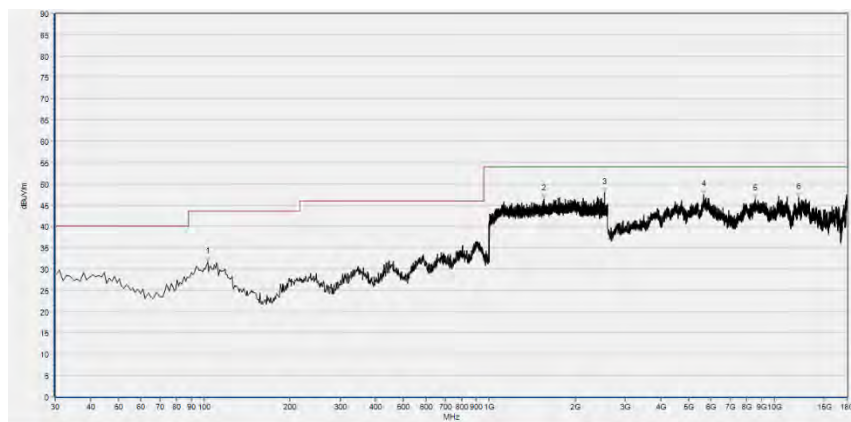


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
102.750	31.29	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1118.933	46.06	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1790.933	46.68	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5365.840	45.57	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7386.320	46.51	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
11759.920	46.03	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

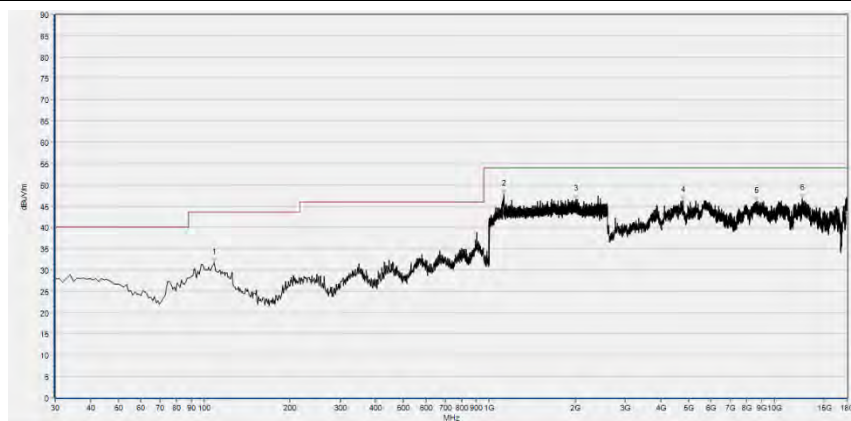
**802.11n (HT20) Mode**

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
102.750	31.62	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1558.400	46.49	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2541.867	47.93	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5661.520	47.43	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8569.040	46.50	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12138.760	46.81	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

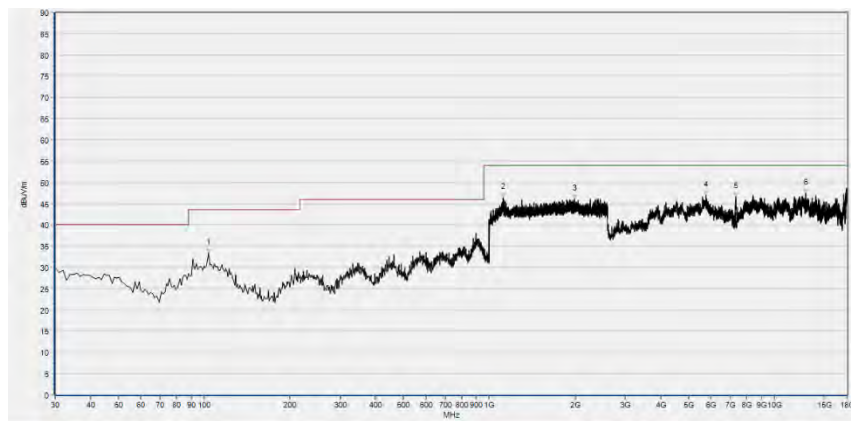


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
108.570	31.66	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1124.800	47.75	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2011.733	46.54	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4792.960	46.17	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8670.680	46.11	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12526.840	46.79	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

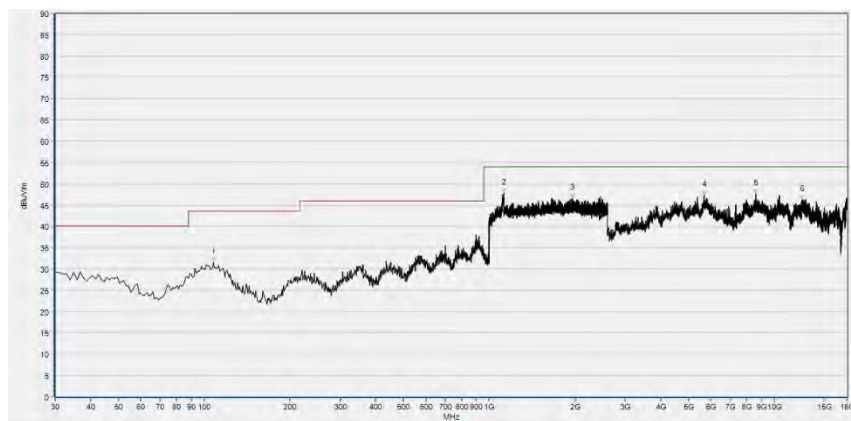


Plot for Channel 6



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
103.720	33.27	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1117.333	46.42	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1988.800	46.07	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5763.160	46.88	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7318.560	46.57	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12893.360	47.37	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

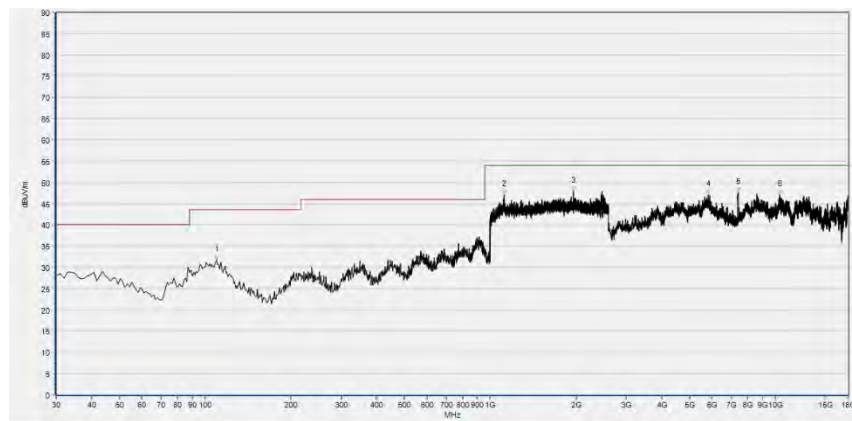


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
107.600	31.49	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1125.333	47.74	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1956.267	46.52	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5670.760	47.19	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8615.240	47.58	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12511.440	46.17	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

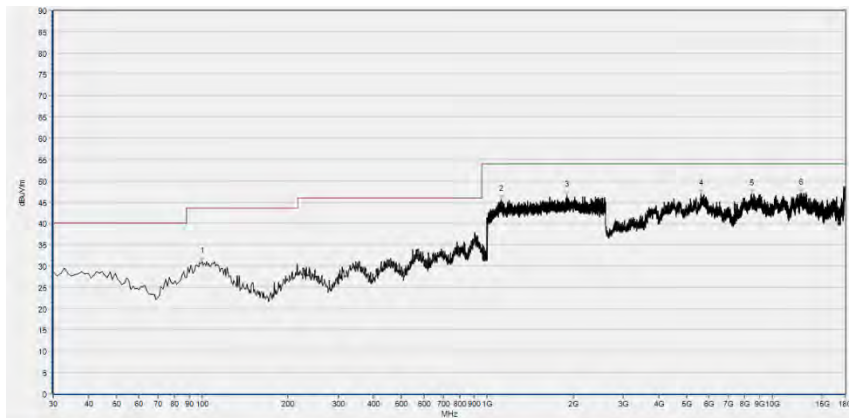


Plot for Channel 11



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
109.540	31.65	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1120.533	47.11	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1956.267	47.86	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5824.760	47.14	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7395.560	47.56	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10367.760	47.11	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

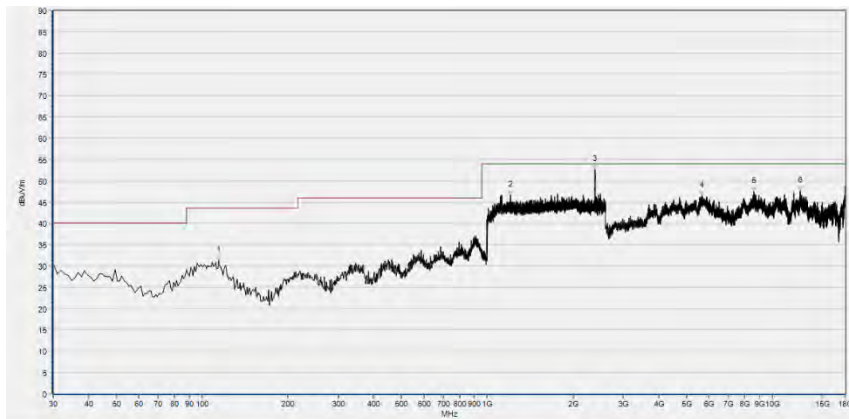


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
99.840	30.97	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1116.800	45.64	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1906.667	46.67	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5621.480	46.86	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8436.600	46.99	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12591.520	47.14	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

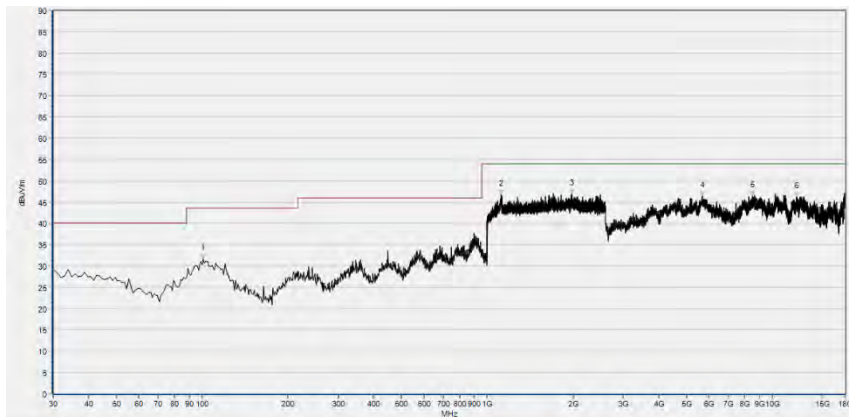
**802.11n (HT40) Mode**

Plot for Channel 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
114.390	31.29	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1206.400	46.57	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2388.200	52.61	N/A	41.82	74.00	N/A	54.00	Horizontal	PASS
5667.680	46.38	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8602.920	47.40	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12545.320	47.58	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

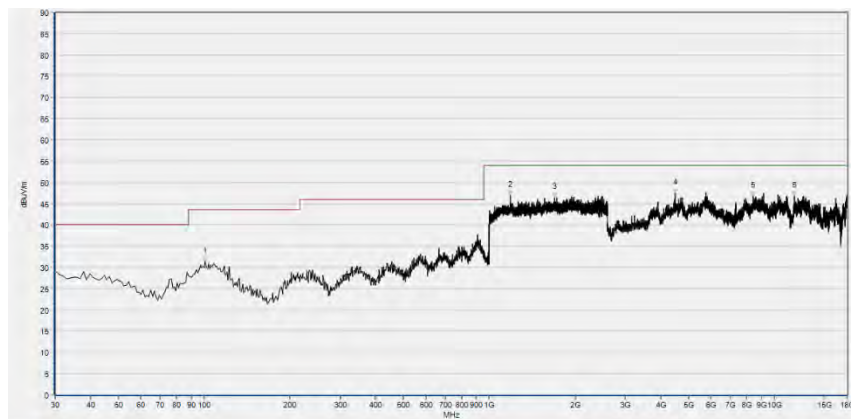


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
100.810	31.63	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1121.067	46.74	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1983.467	46.86	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5670.760	46.43	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8485.880	46.37	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12154.160	46.24	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

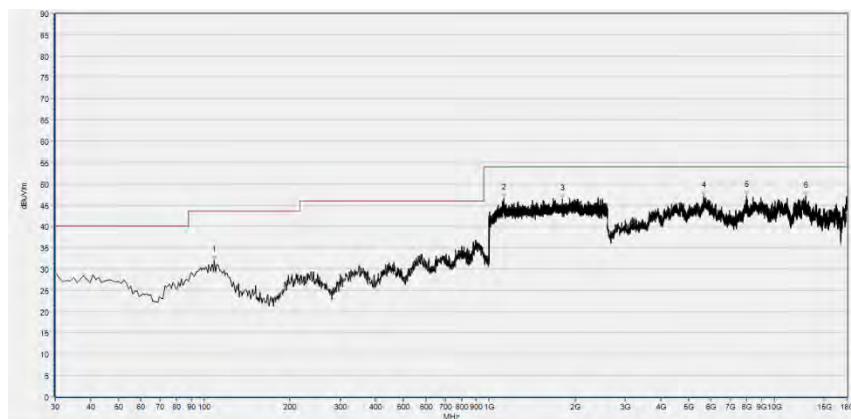


Plot for Channel 6



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
100.810	31.32	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1188.267	46.86	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1699.200	46.47	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4484.960	47.35	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8415.040	46.78	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11741.440	46.72	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

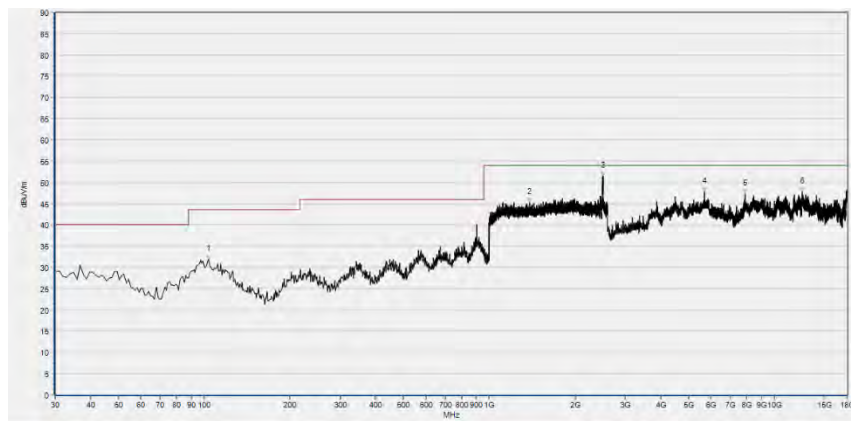


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
108.570	31.95	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1125.333	46.53	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1803.200	46.46	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5652.280	47.14	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7986.920	47.31	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12887.200	47.16	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

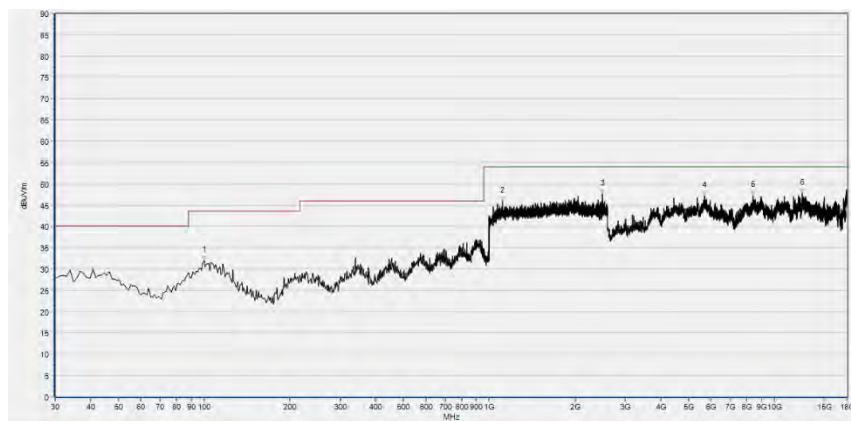


Plot for Channel 9



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
103.720	31.83	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1388.267	45.27	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2502.300	51.47	N/A	40.14	74.00	N/A	54.00	Horizontal	PASS
5695.400	47.82	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7888.360	47.19	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12499.120	47.71	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

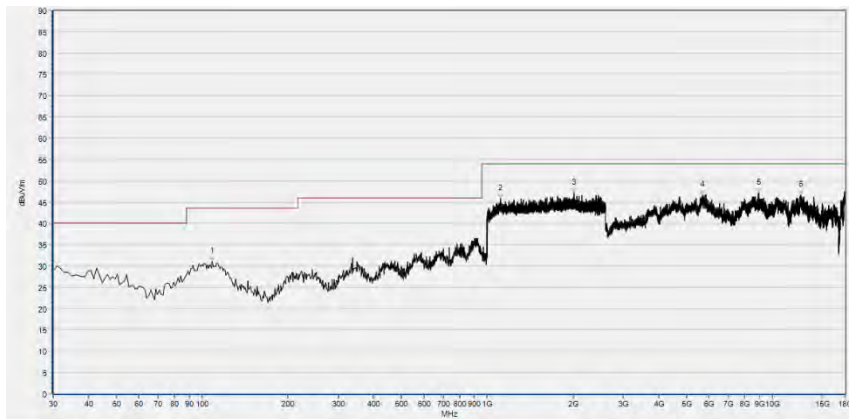


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
99.840	32.04	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1113.600	45.97	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2490.133	47.54	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5698.480	47.07	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8411.960	47.31	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12539.160	47.71	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

**802.11ac (VHT20) 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
108.570	31.00	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1113.600	45.82	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2012.800	47.15	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5673.840	46.58	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8981.760	47.14	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12569.960	46.61	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

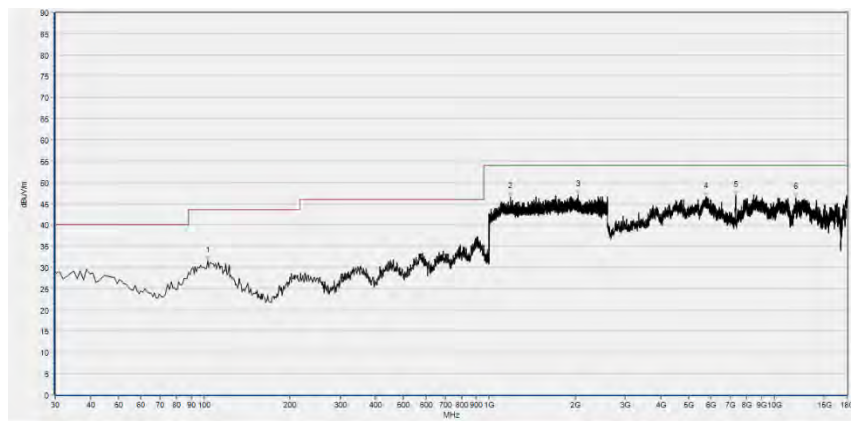


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
107.600	32.69	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1250.133	45.37	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2014.933	47.53	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5683.080	47.25	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8448.920	47.35	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12539.160	47.82	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

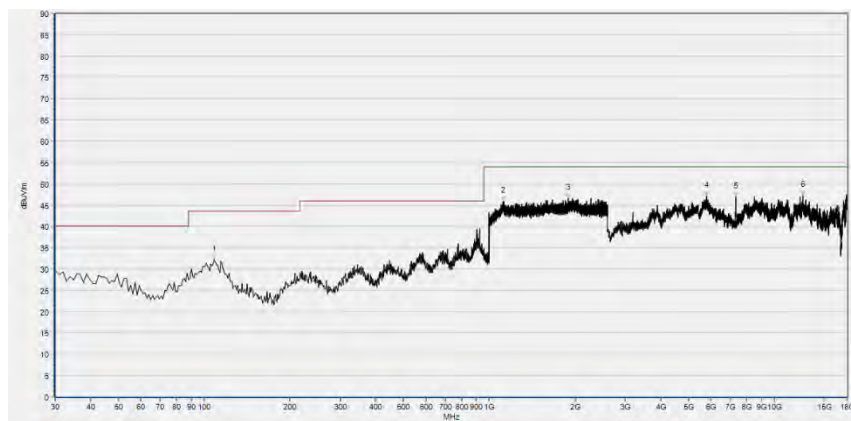


Plot for Channel 6



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	31.51	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1187.200	46.55	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2046.400	47.12	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5763.160	46.63	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7306.240	46.99	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11870.800	46.42	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

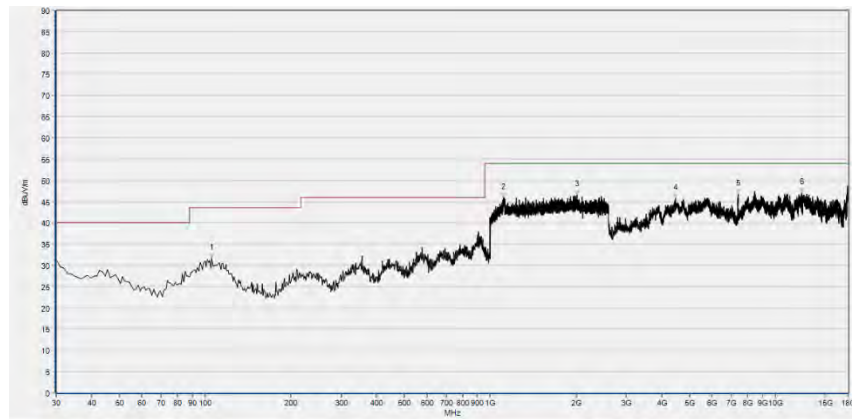


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
108.570	32.23	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1118.400	45.87	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1891.200	46.61	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5784.720	47.08	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7315.480	46.87	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12582.280	47.32	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

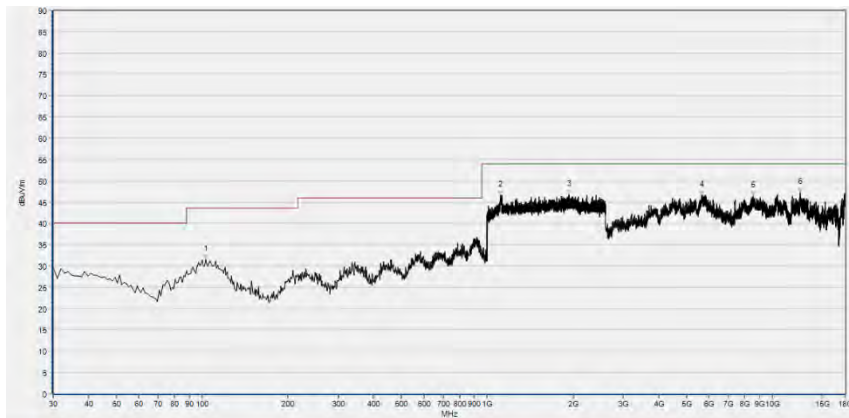


Plot for Channel 11



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	31.63	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1115.733	45.90	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2017.067	46.67	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4463.400	45.81	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7389.400	46.71	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12345.120	47.15	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

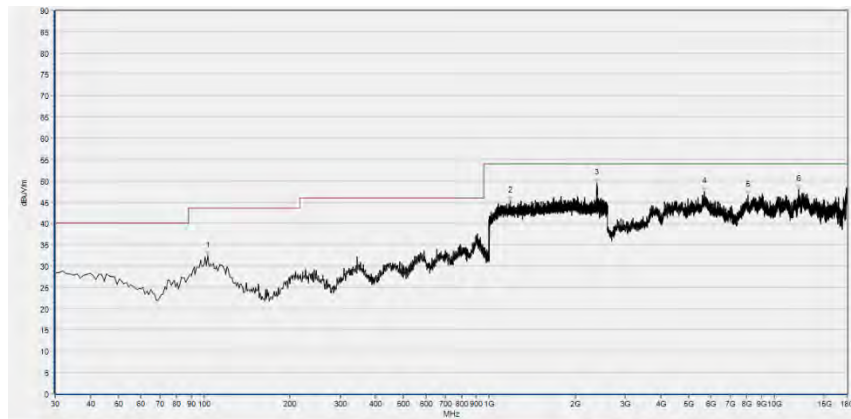


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
102.750	31.56	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1111.467	46.65	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1939.733	46.79	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5639.960	46.53	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8538.240	46.40	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12536.080	47.20	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

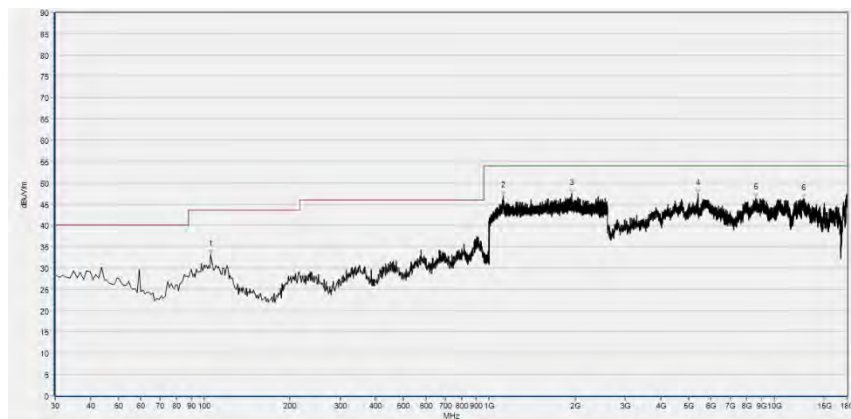
**802.11ac (VHT40) Mode**

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
102.750	32.29	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1183.467	45.27	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2388.400	49.47	N/A	41.52	74.00	N/A	54.00	Horizontal	PASS
5695.400	47.45	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8079.320	46.59	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12144.920	47.87	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

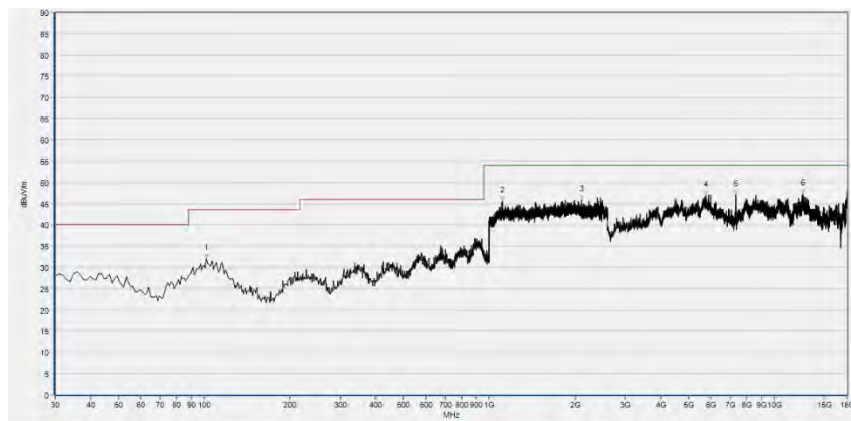


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
105.660	33.11	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1121.067	46.94	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1942.933	47.42	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5402.800	47.38	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8612.160	46.39	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12699.320	46.22	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

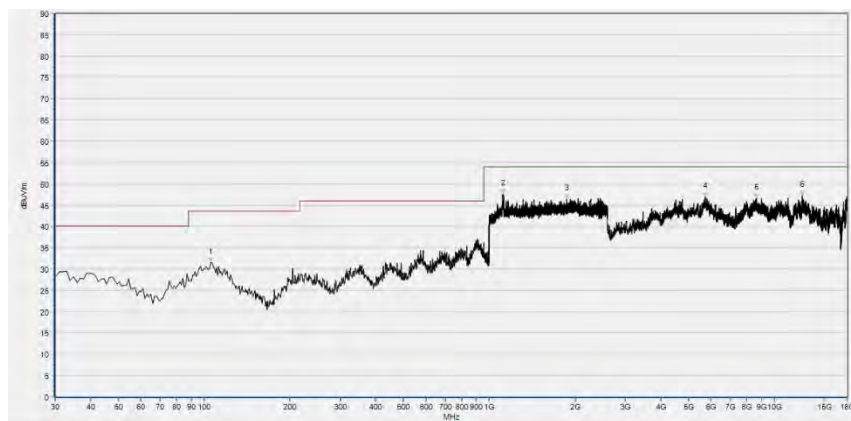


Plot for Channel 6



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
101.780	32.07	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1115.200	45.63	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2105.067	45.84	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5750.840	46.87	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7321.640	47.10	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12597.680	47.21	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

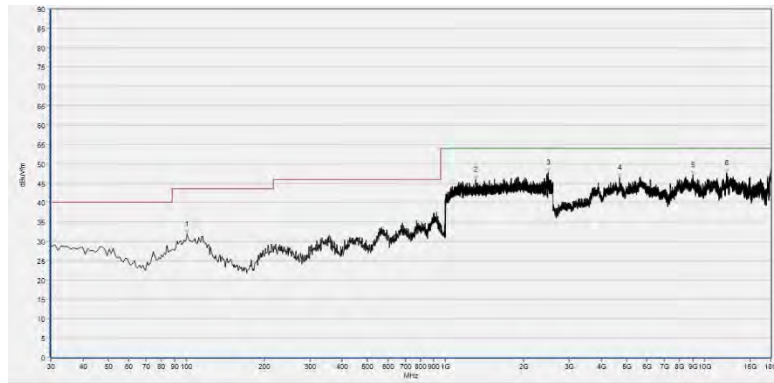
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
105.660	31.49	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1116.267	47.61	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1870.400	46.36	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5720.040	46.97	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8652.200	46.53	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12502.200	47.25	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
100.810	31.79	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1305.600	45.84	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2498.133	47.73	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4709.800	46.40	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8997.160	47.12	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12135.680	47.61	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	32.32	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1232.000	46.63	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1858.133	47.43	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5630.720	46.61	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8452.000	47.11	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12687.000	46.56	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

END OF REPORT