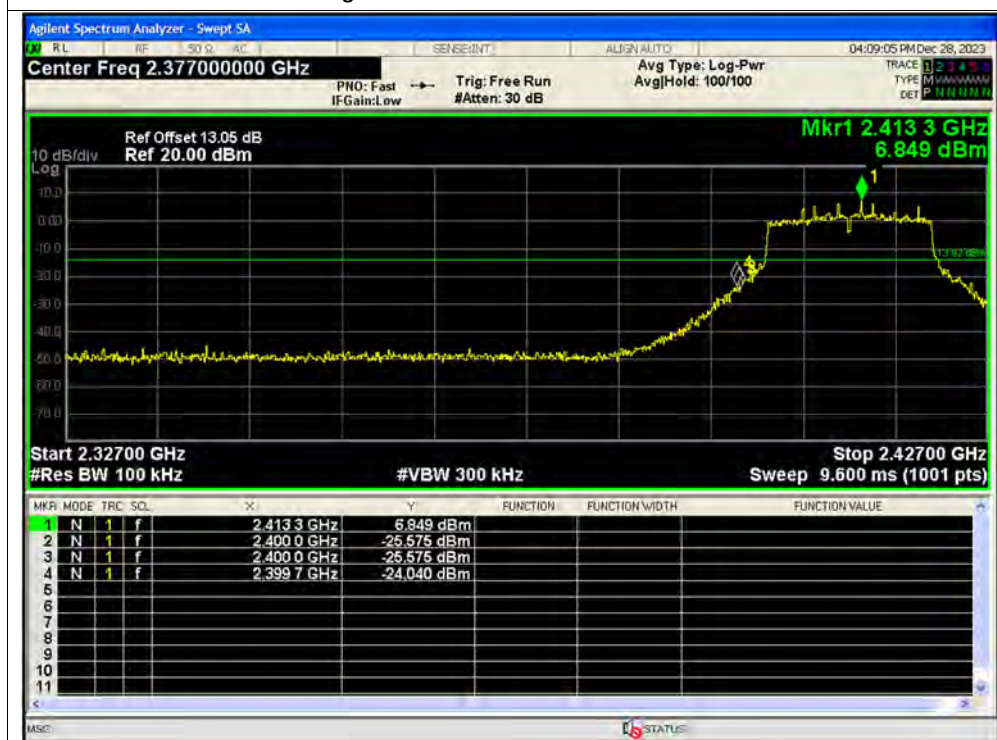


Band Edge NVNT n20 2412MHz Ant1 Ref



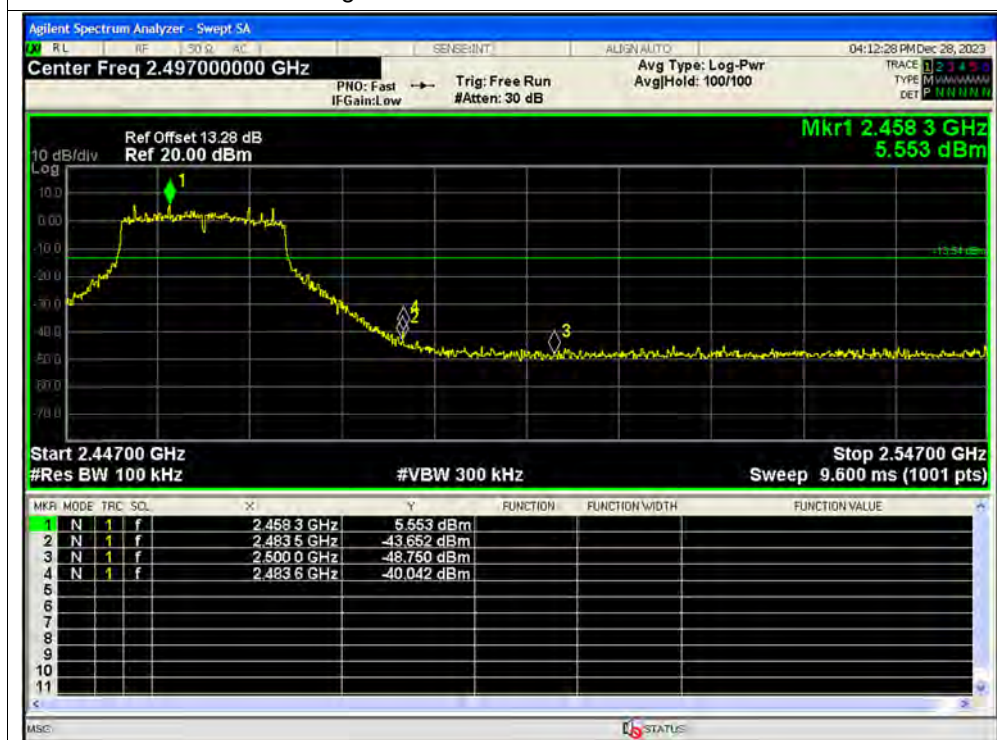
Band Edge NVNT n20 2412MHz Ant1 Emission



Band Edge NVNT n20 2462MHz Ant1 Ref



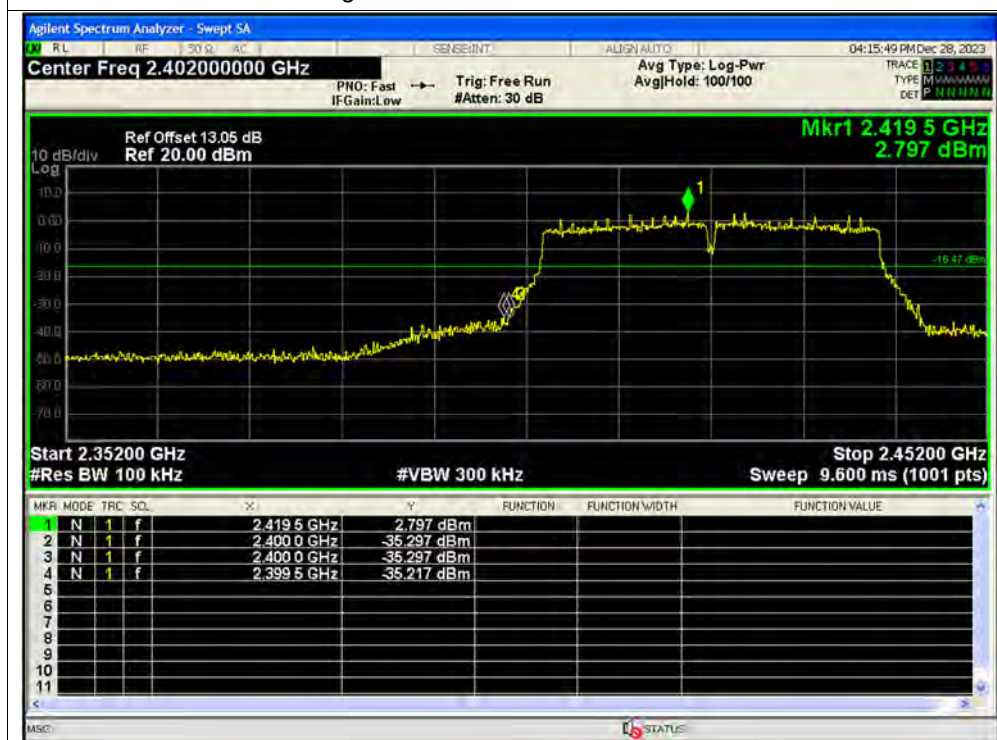
Band Edge NVNT n20 2462MHz Ant1 Emission



Band Edge NVNT n40 2422MHz Ant1 Ref



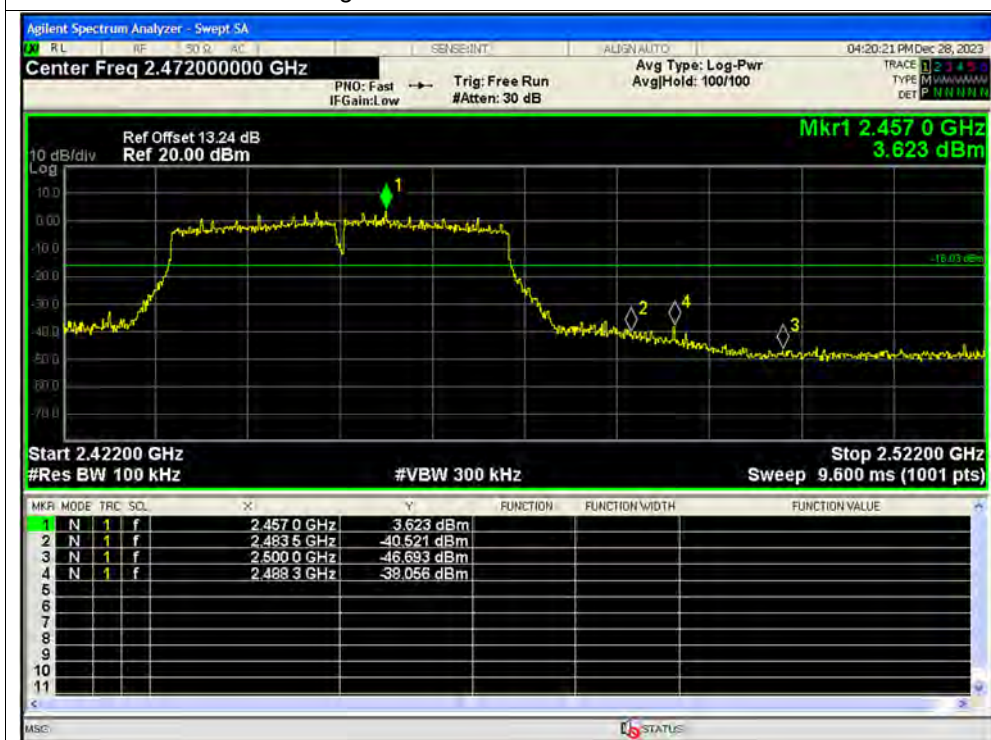
Band Edge NVNT n40 2422MHz Ant1 Emission



Band Edge NVNT n40 2452MHz Ant1 Ref



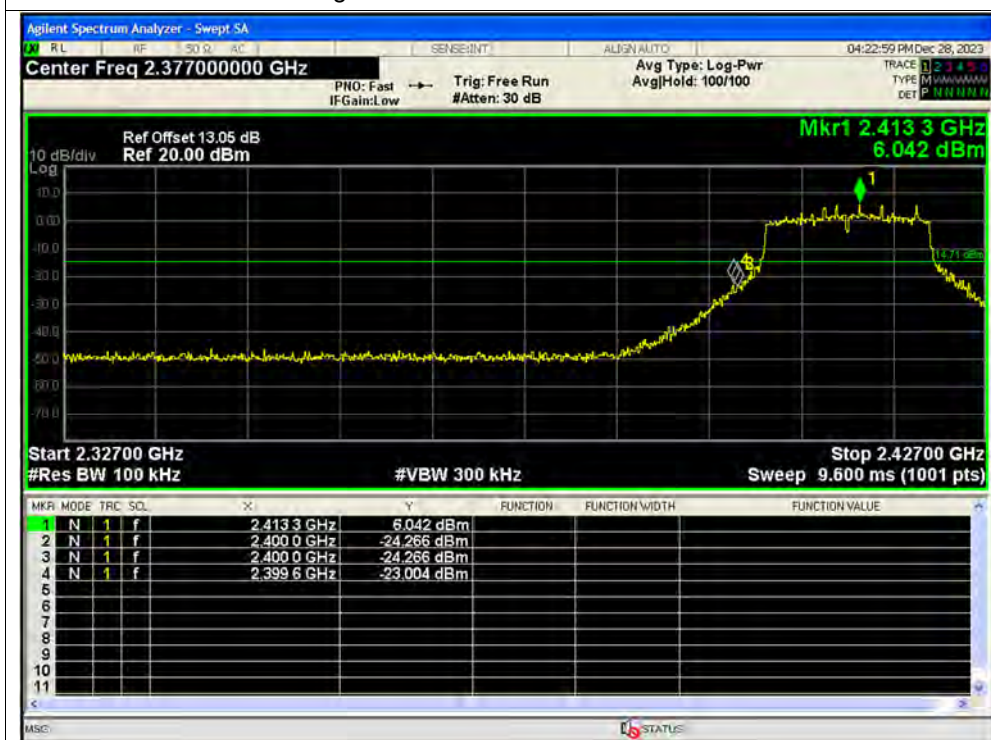
Band Edge NVNT n40 2452MHz Ant1 Emission



Band Edge NVNT ac20 2412MHz Ant1 Ref



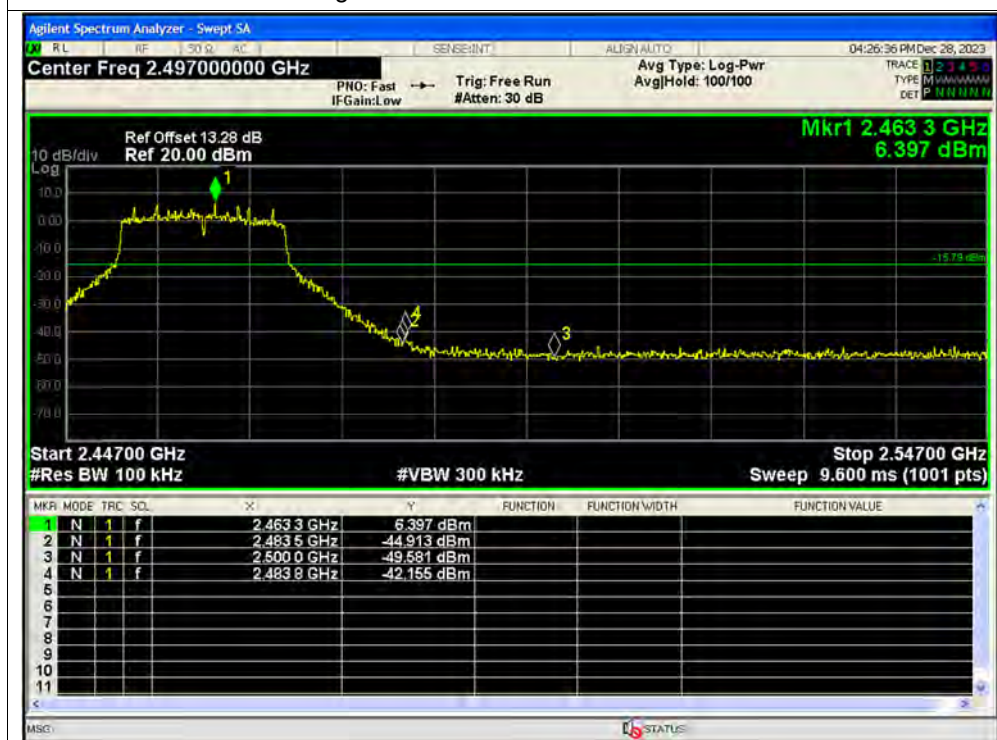
Band Edge NVNT ac20 2412MHz Ant1 Emission



Band Edge NVNT ac20 2462MHz Ant1 Ref



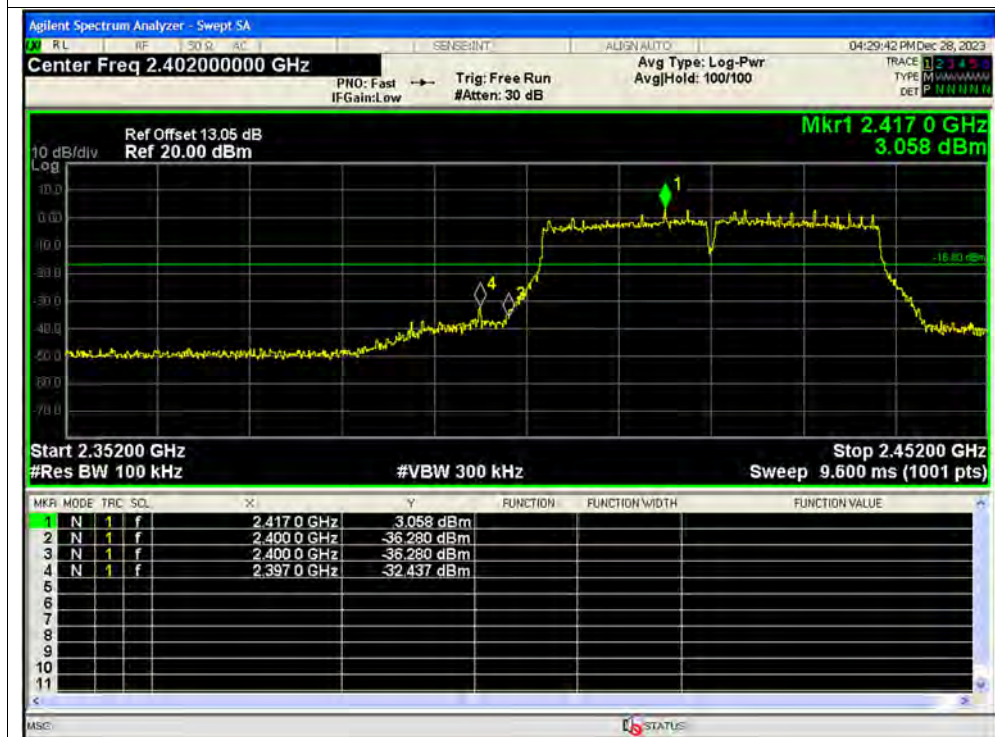
Band Edge NVNT ac20 2462MHz Ant1 Emission



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	-5.58	0	-5.58	8	Pass
NVNT	b	2437	Ant1	-4.92	0	-4.92	8	Pass
NVNT	b	2462	Ant1	-5.66	0	-5.66	8	Pass
NVNT	g	2412	Ant1	-8.99	0	-8.99	8	Pass
NVNT	g	2437	Ant1	-7.95	0	-7.95	8	Pass
NVNT	g	2462	Ant1	-8.18	0	-8.18	8	Pass
NVNT	n20	2412	Ant1	-7.83	0	-7.83	8	Pass
NVNT	n20	2437	Ant1	-7.8	0	-7.8	8	Pass
NVNT	n20	2462	Ant1	-7.44	0	-7.44	8	Pass
NVNT	n40	2422	Ant1	-11.56	0	-11.56	8	Pass
NVNT	n40	2437	Ant1	-12	0	-12	8	Pass
NVNT	n40	2452	Ant1	-11.08	0	-11.08	8	Pass
NVNT	ac20	2412	Ant1	-8.14	0	-8.14	8	Pass
NVNT	ac20	2437	Ant1	-8.61	0	-8.61	8	Pass
NVNT	ac20	2462	Ant1	-7.97	0	-7.97	8	Pass
NVNT	ac40	2422	Ant1	-11.41	0	-11.41	8	Pass
NVNT	ac40	2437	Ant1	-11.85	0	-11.85	8	Pass
NVNT	ac40	2452	Ant1	-11.56	0	-11.56	8	Pass

Test Graphs

PSD NVNT b 2412MHz Ant1



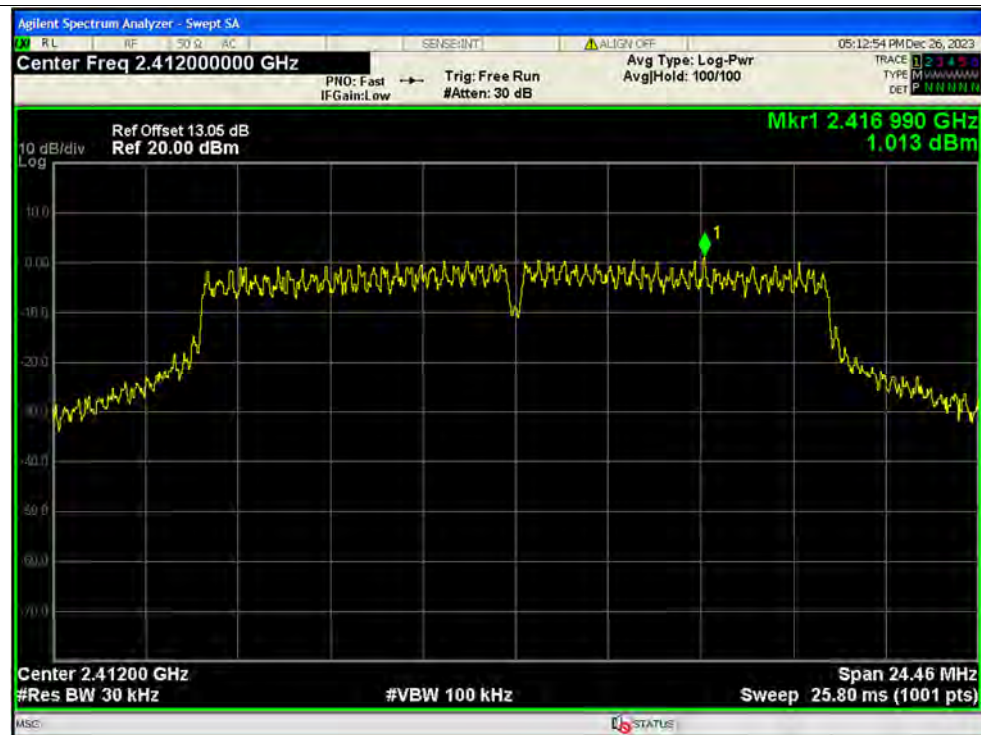
PSD NVNT b 2437MHz Ant1



PSD NVNT b 2462MHz Ant1



PSD NVNT g 2412MHz Ant1





PSD NVNT g 2437MHz Ant1

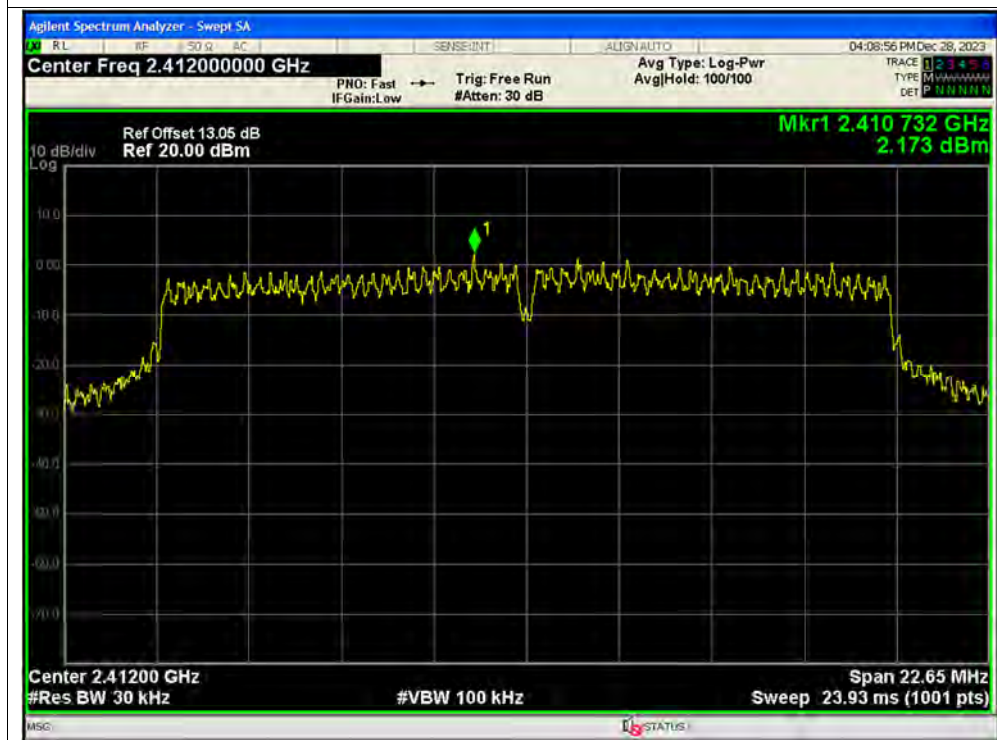


PSD NVNT g 2462MHz Ant1





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

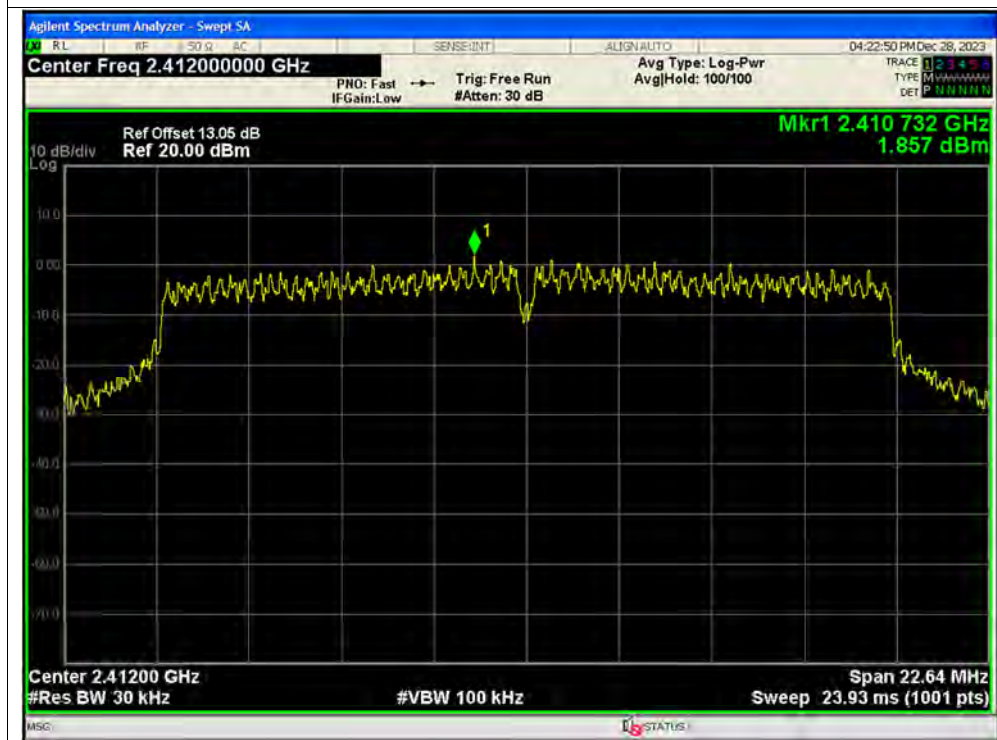


PSD NVNT n40 2452MHz Ant1





PSD NVNT ac20 2412MHz Ant1

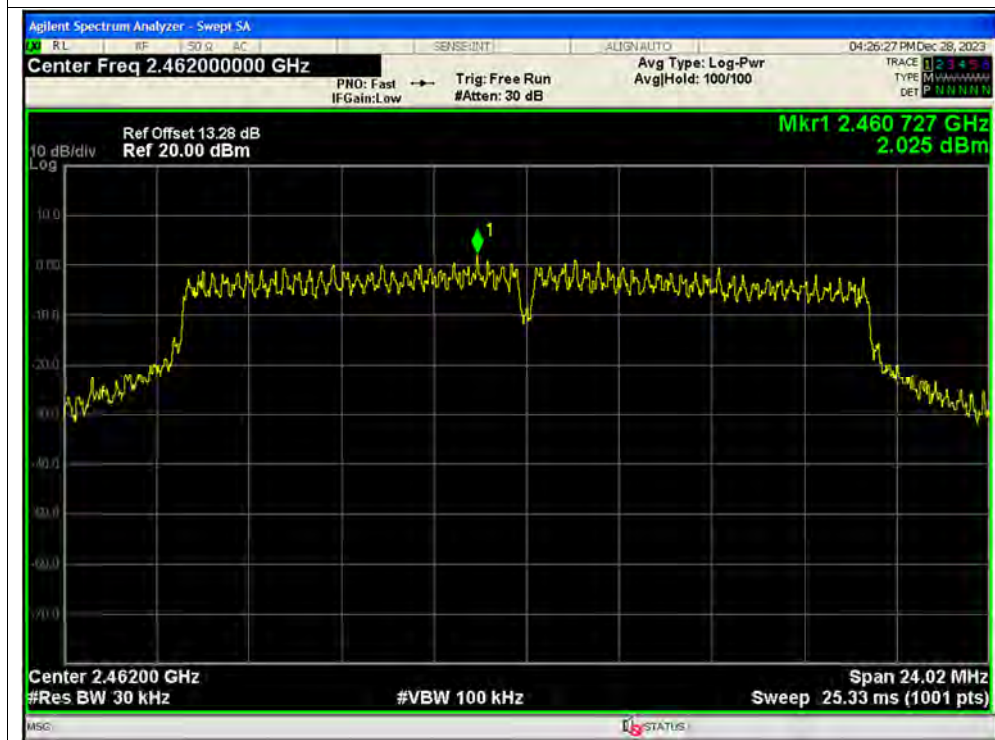


PSD NVNT ac20 2437MHz Ant1





PSD NVNT ac20 2462MHz Ant1



PSD NVNT ac40 2422MHz Ant1

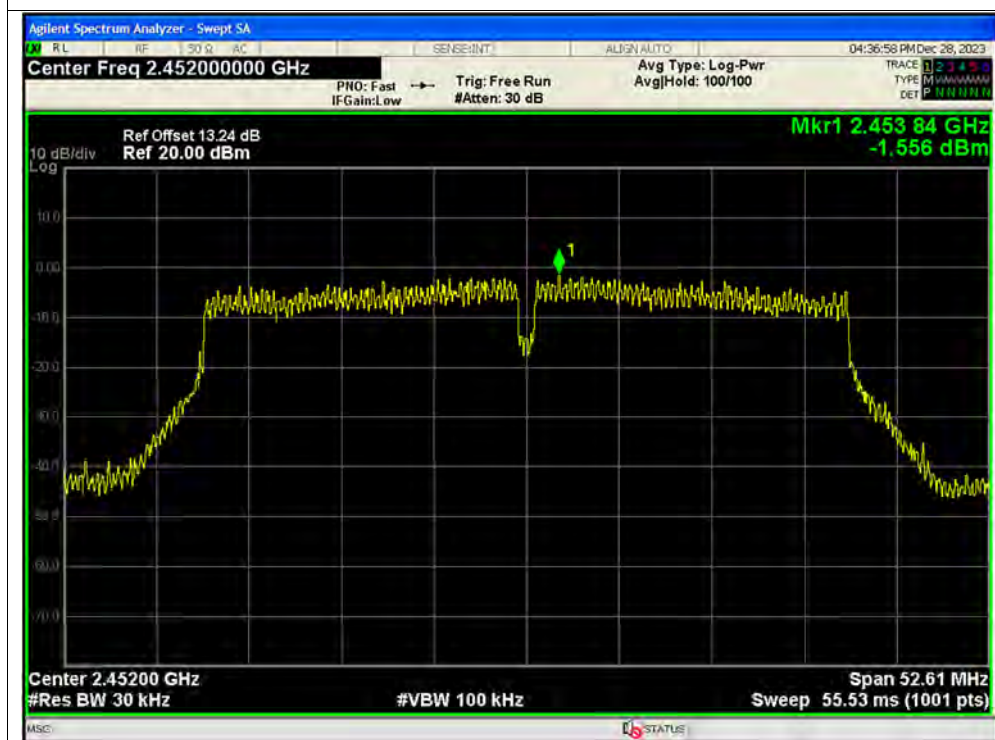




PSD NVNT ac40 2437MHz Ant1



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 + PC Adapter + PC + Earphone +WIFI TX

Test voltage: AC 120V/60Hz

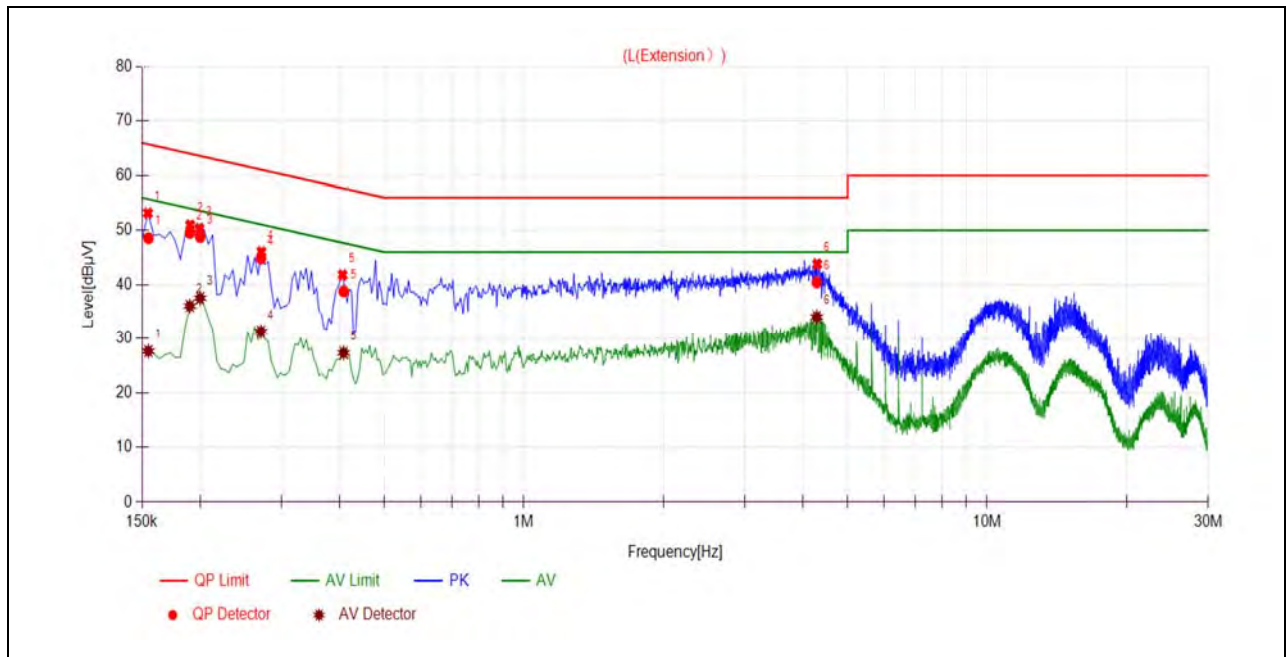
The measurement results are obtained as below:

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

U_R : Receiver Reading

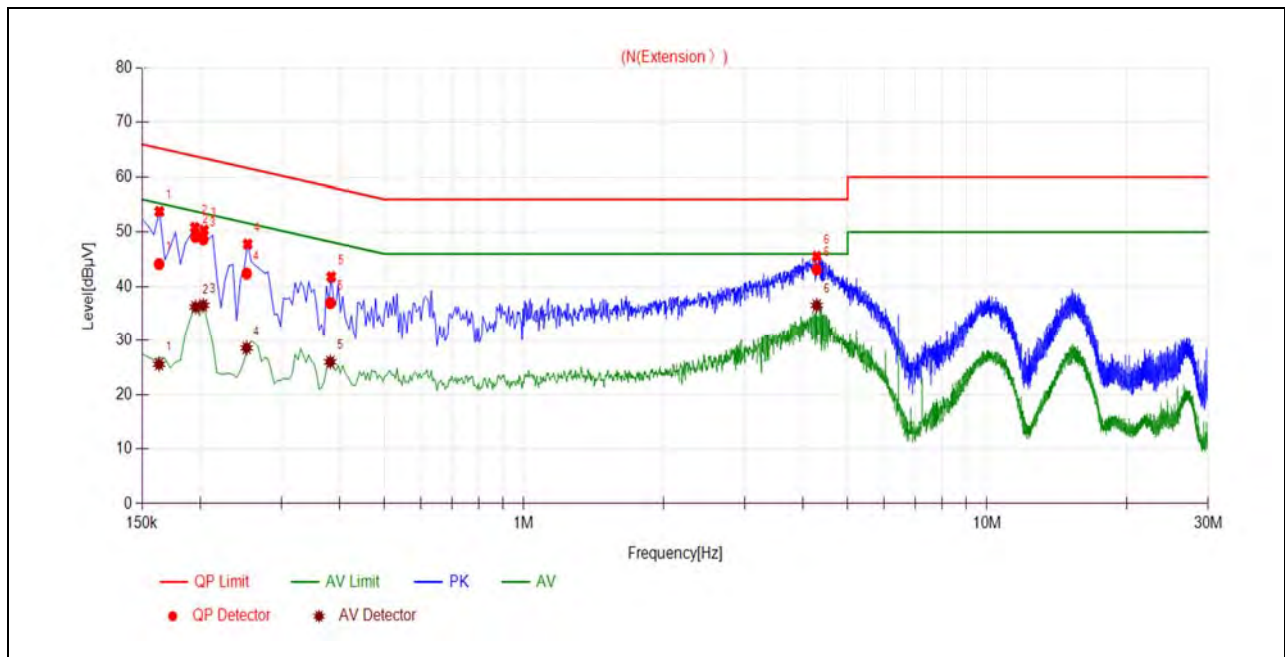
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1548	48.57	27.63	65.74	55.74	Line	PASS
2	0.1902	49.54	36.06	64.03	54.03		PASS
3	0.2002	48.81	37.52	63.60	53.60		PASS
4	0.2708	44.84	31.30	61.09	51.09		PASS
5	0.4085	38.79	27.32	57.68	47.68		PASS
6	4.2892	40.46	34.04	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	0.1632	44.13	25.57	65.30	55.30	Neutral	PASS
2	0.1956	49.12	36.27	63.80	53.80		PASS
3	0.2032	48.67	36.57	63.48	53.48		PASS
4	0.2522	42.40	28.56	61.68	51.68		PASS
5	0.3823	36.98	26.00	58.23	48.23		PASS
6	4.2882	43.17	36.56	56.00	46.00		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

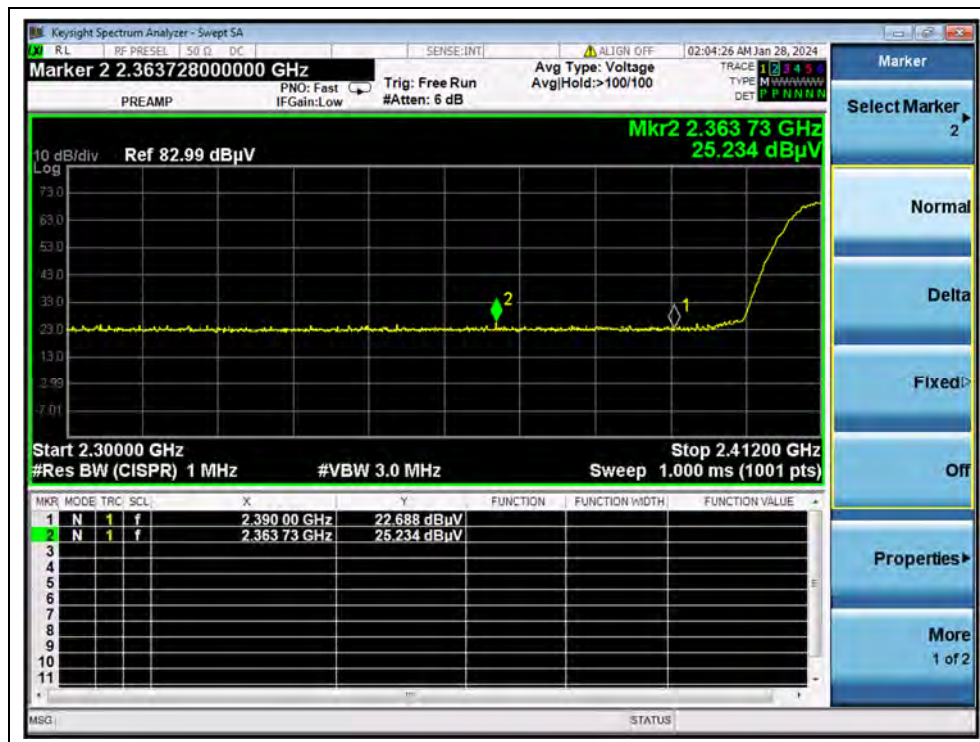
G_{preamp} : Preamplifier Gain

A_{Factor} : Antenna Factor at 3m

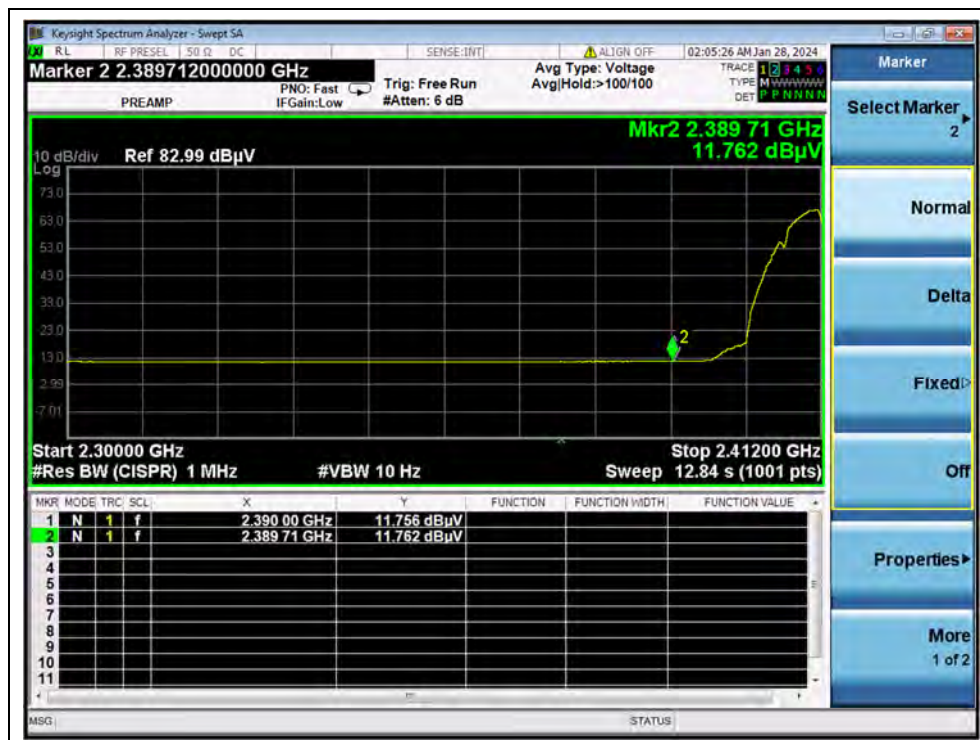
Note: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (vertical) was recorded in this test report.

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	2363.73	PK	25.23	6.74	27.20	59.17	74	PASS
1	2389.71	AV	11.76	6.74	27.20	45.70	54	PASS
11	2493.54	PK	24.92	6.74	27.20	58.86	74	PASS
11	2483.74	AV	12.05	6.74	27.20	45.99	54	PASS



(PEAK, Channel 1, 802.11b)



(AVERAGE, Channel 1, 802.11b)



(PEAK, Channel 11, 802.11b)

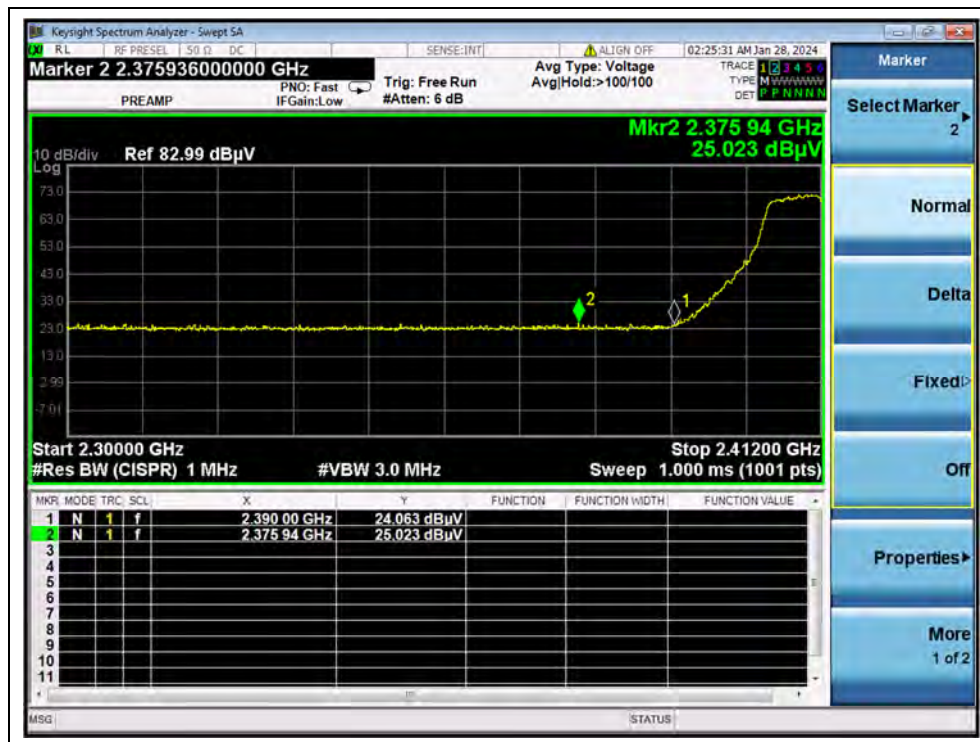


(AVERAGE, Channel 11, 802.11b)

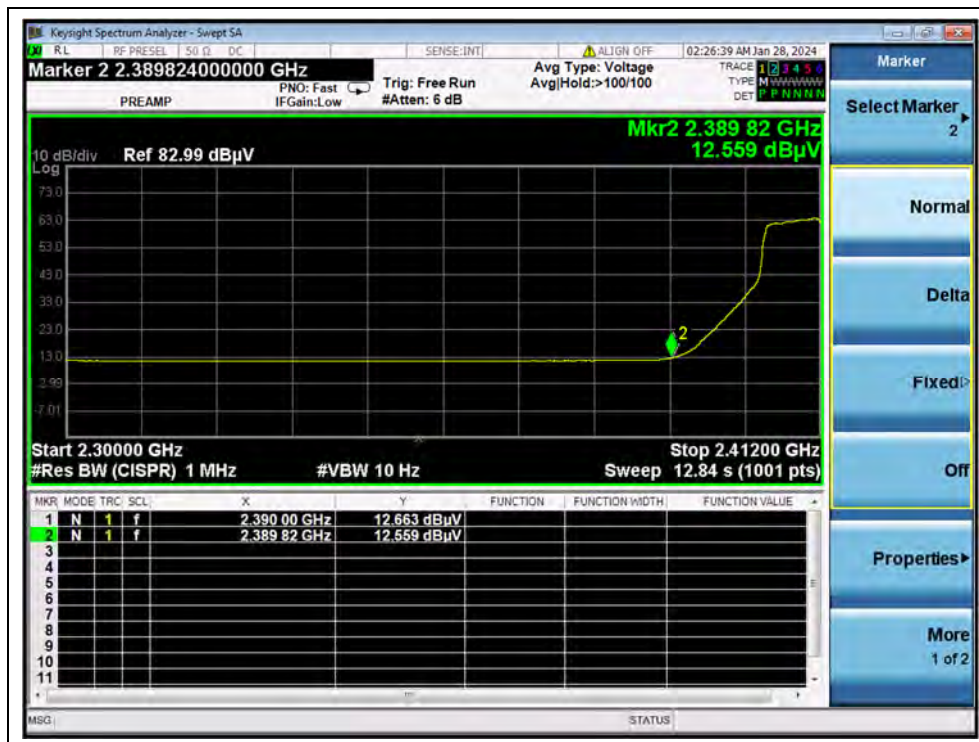


802.11g Mode

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	2375.94	PK	25.02	6.74	27.20	58.96	74	PASS
1	2390.00	AV	12.66	6.74	27.20	46.60	54	PASS
11	2487.19	PK	25.12	6.74	27.20	59.06	74	PASS
11	2483.50	AV	12.80	6.74	27.20	46.74	54	PASS



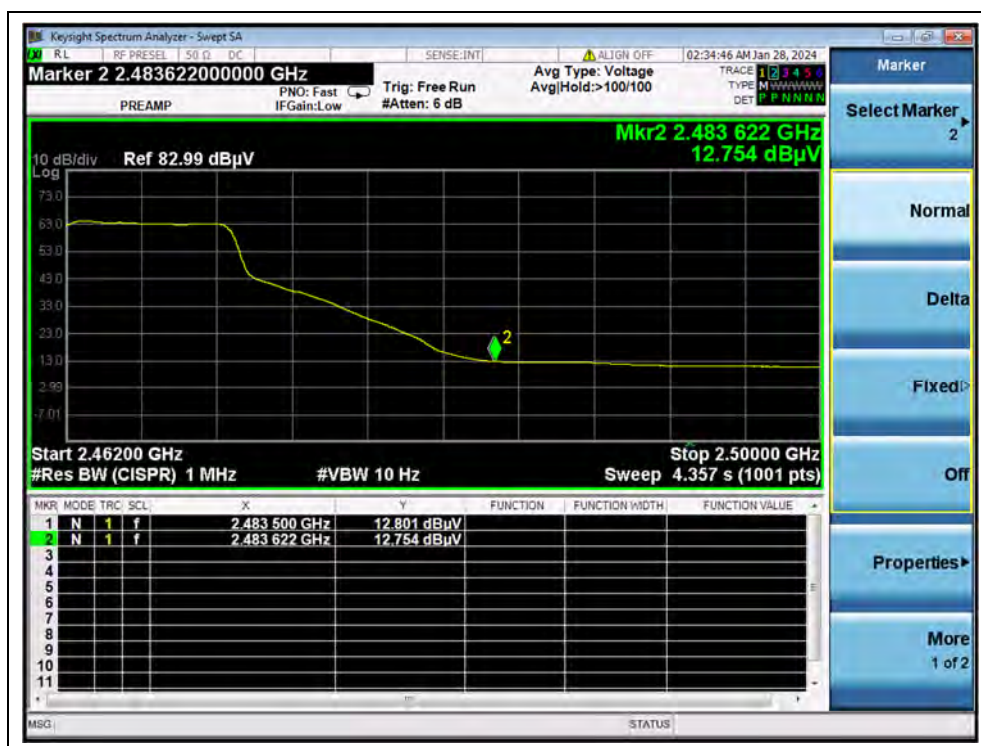
(PEAK, Channel 1, 802.11g)



(AVERAGE, Channel 1, 802.11g)



(PEAK, Channel 11, 802.11g)

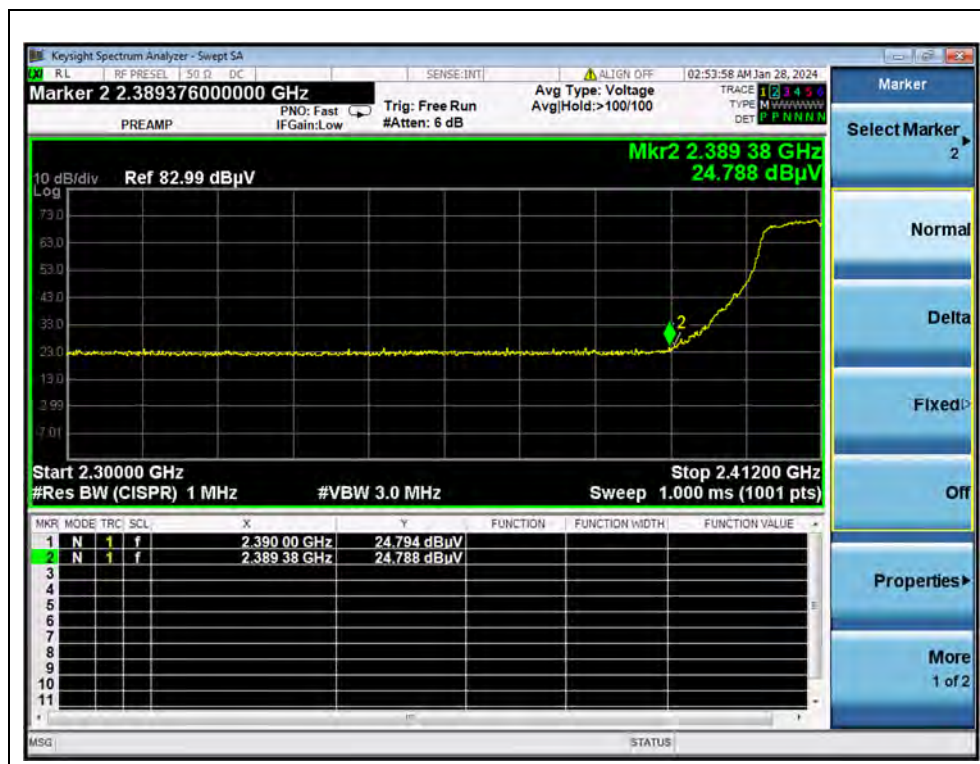


(AVERAGE, Channel 11, 802.11g)

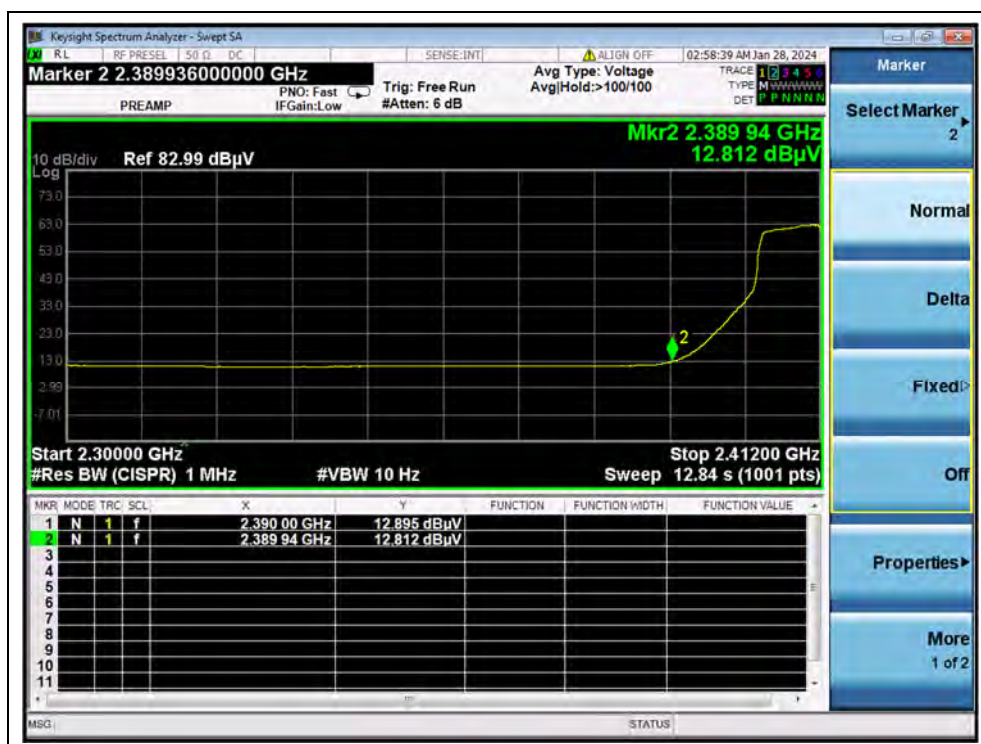


802.11n (HT20) Mode

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	2390.00	PK	24.79	6.74	27.20	58.73	74	PASS
1	2390.00	AV	12.90	6.74	27.20	46.84	54	PASS
11	2484.31	PK	26.03	6.74	27.20	59.97	74	PASS
11	2483.50	AV	13.34	6.74	27.20	47.28	54	PASS



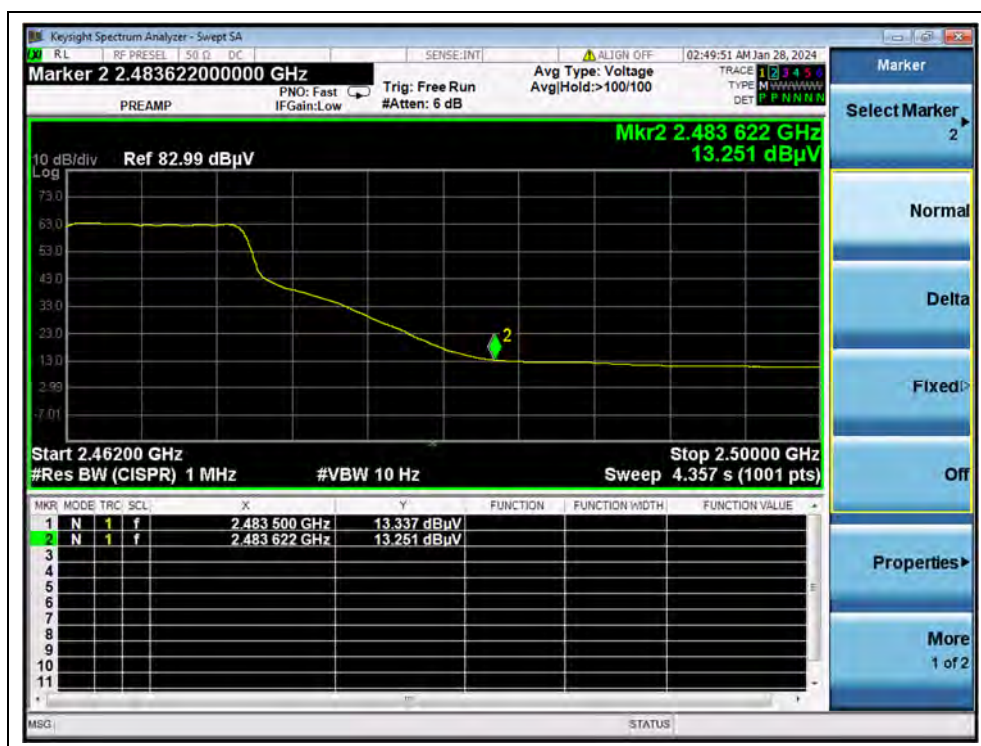
(PEAK, Channel 1, 802.11n (HT20))



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



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



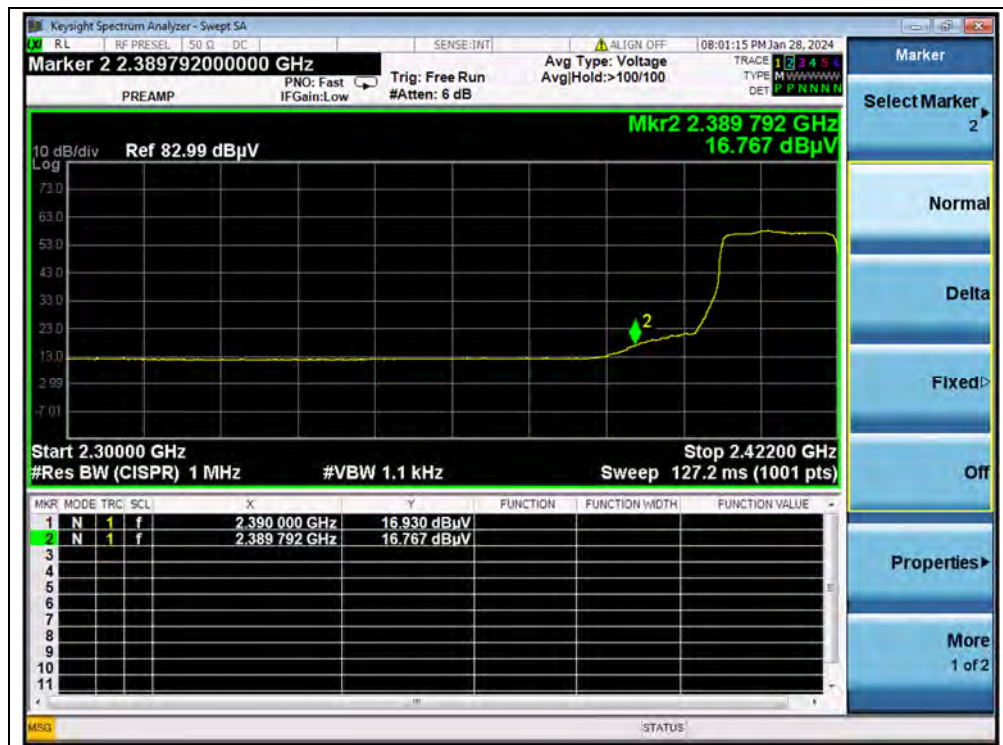
(AVERAGE, Channel 11, 802.11n (HT20))

**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	28.35	6.74	27.20	62.29	74	PASS
3	2390.00	AV	16.93	6.74	27.20	50.87	54	PASS
9	2484.40	PK	26.76	6.74	27.20	60.70	74	PASS
9	2484.11	AV	15.12	6.74	27.20	49.06	54	PASS



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



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



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

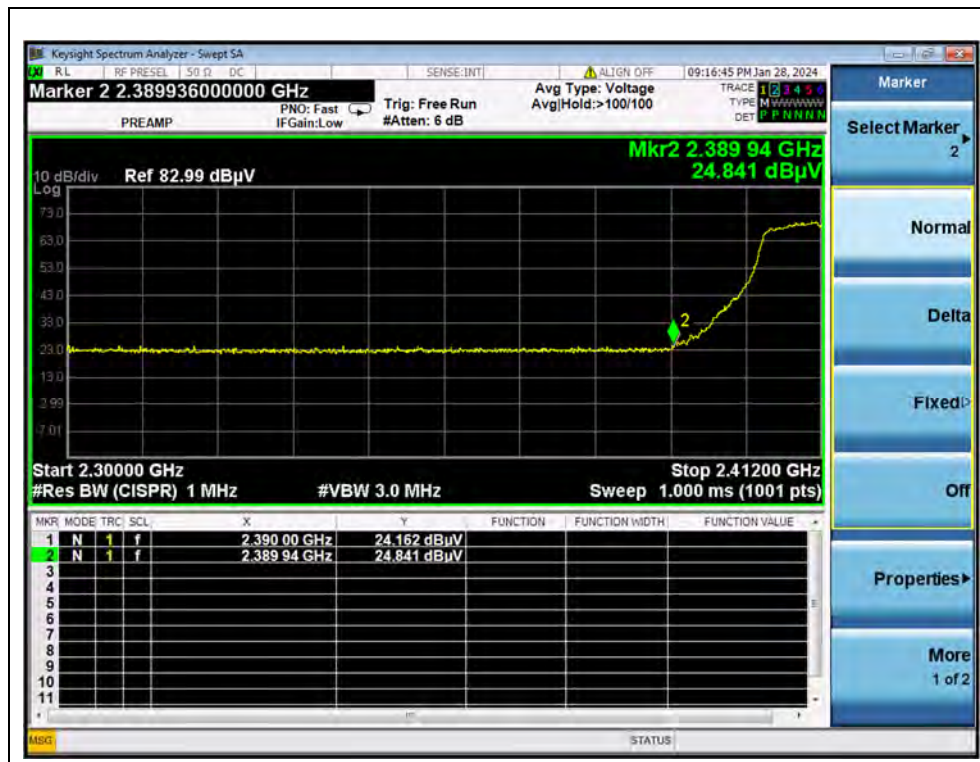


(AVERAGE, Channel 9, 802.11n (HT40))

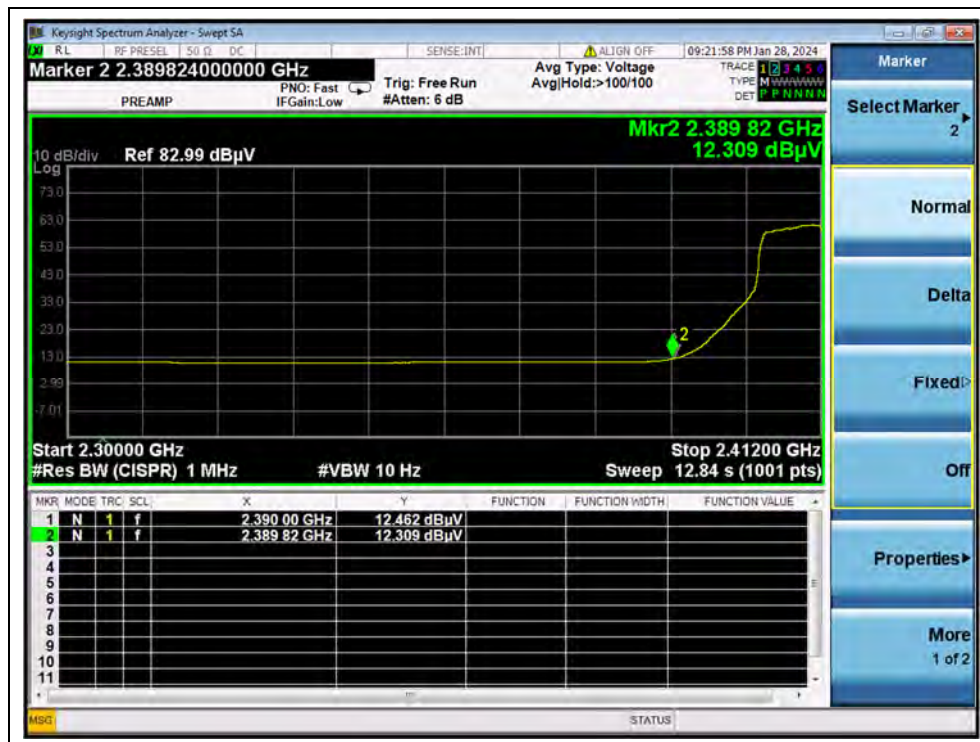


802.11ac (VHT20) Mode

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBμV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
1	2389.94	PK	24.84	6.74	27.20	58.78	74	PASS
1	2390.00	AV	12.46	6.74	27.20	46.40	54	PASS
11	2486.85	PK	25.06	6.74	27.20	59.00	74	PASS
11	2483.50	AV	12.32	6.74	27.20	46.26	54	PASS



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



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



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

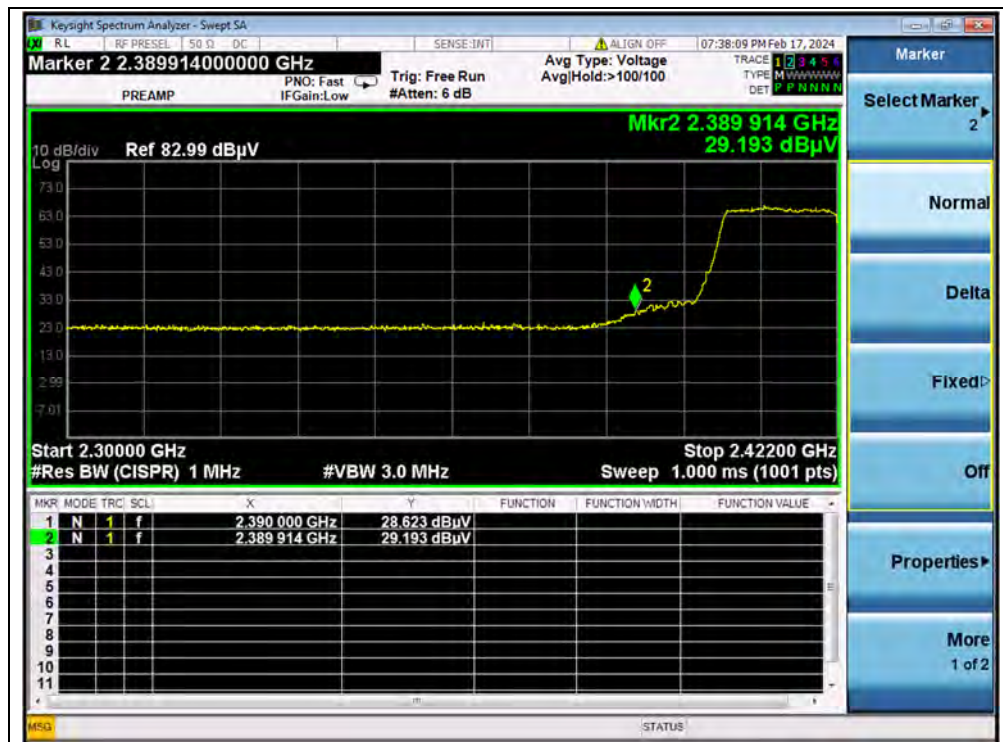


(AVERAGE, Channel 11, 802.11ac (VHT20))

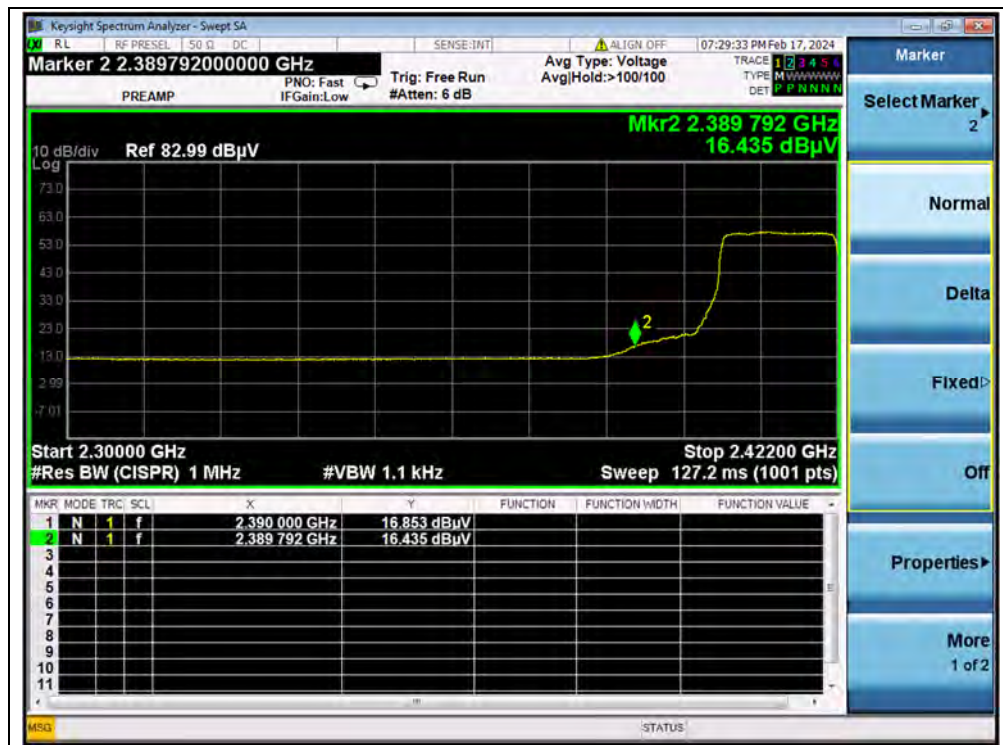


802.11ac (VHT40) Mode

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	2389.91	PK	29.19	6.74	27.20	63.13	74	PASS
3	2390.00	AV	16.85	6.74	27.20	50.79	54	PASS
9	2484.59	PK	26.23	6.74	27.20	60.17	74	PASS
9	2483.78	AV	15.08	6.74	27.20	49.02	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.

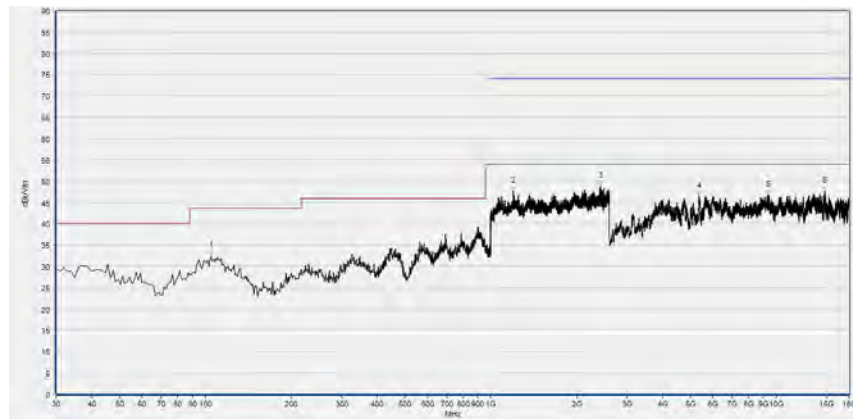
Note1: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

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
104.690	32.29	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1196.800	47.61	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2425.600	48.77	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5365.840	46.44	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9363.680	46.84	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14812.200	47.58	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

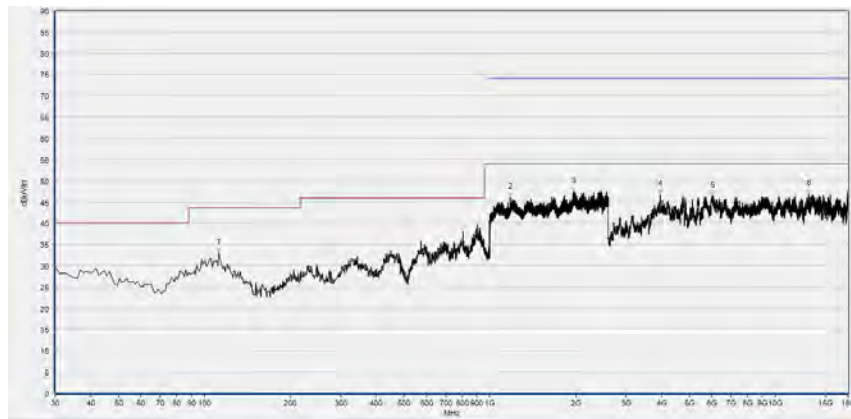
(Antenna Horizontal, 30MHz to 18GHz)



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
110.510	32.21	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1357.867	47.42	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2405.333	49.28	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2821.760	46.17	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3989.080	48.38	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5991.080	47.35	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

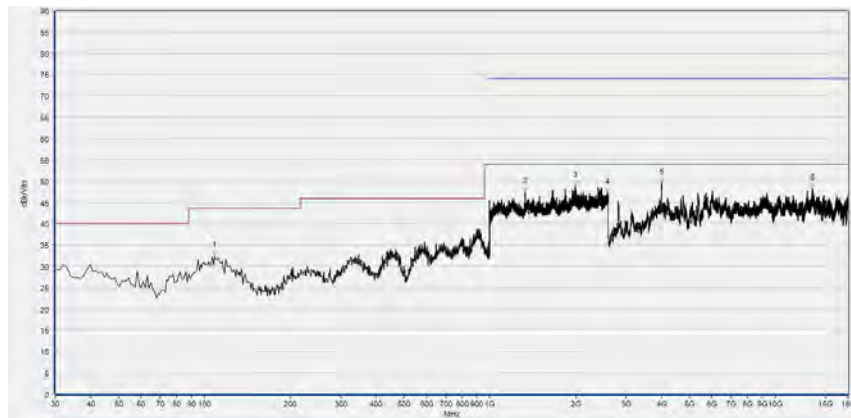
(Antenna Vertical, 30MHz to 18GHz)

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
112.450	33.07	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1176.000	46.08	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1971.733	47.41	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3961.360	46.71	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
6037.280	46.51	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13078.160	46.93	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

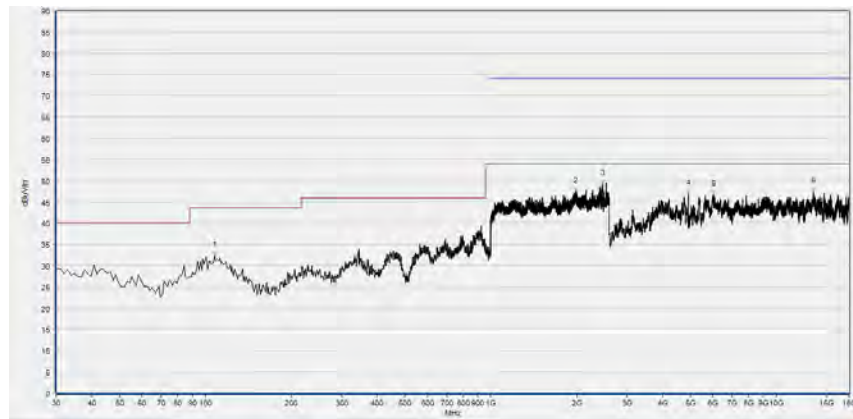
(Antenna Horizontal, 30MHz to 18GHz)



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	32.28	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1332.267	47.49	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1994.667	48.91	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2574.933	47.29	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3989.080	49.54	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13487.800	48.27	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

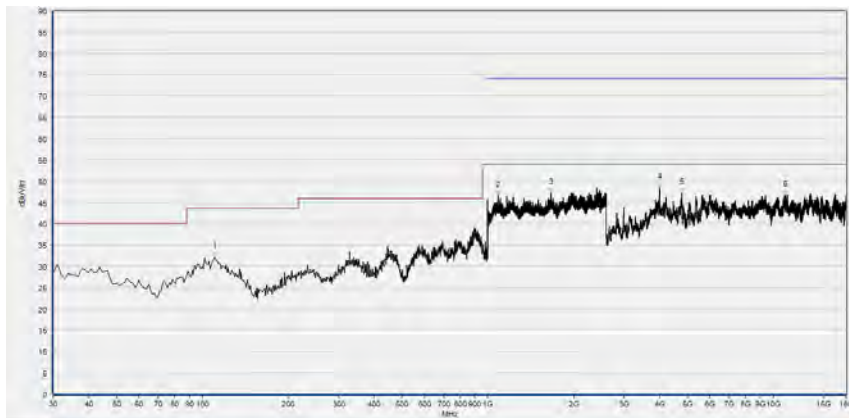
(Antenna Vertical, 30MHz to 18GHz)

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
107.600	32.29	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1980.267	47.41	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2463.467	49.23	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4922.320	46.91	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
6024.960	46.68	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13509.360	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
110.510	32.19	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1088.533	46.67	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1665.600	47.30	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3989.080	48.37	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4777.560	47.24	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
11008.400	46.73	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
112.450	31.84	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1993.067	47.86	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2413.867	48.40	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4777.560	47.32	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5978.760	46.88	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13497.040	47.28	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

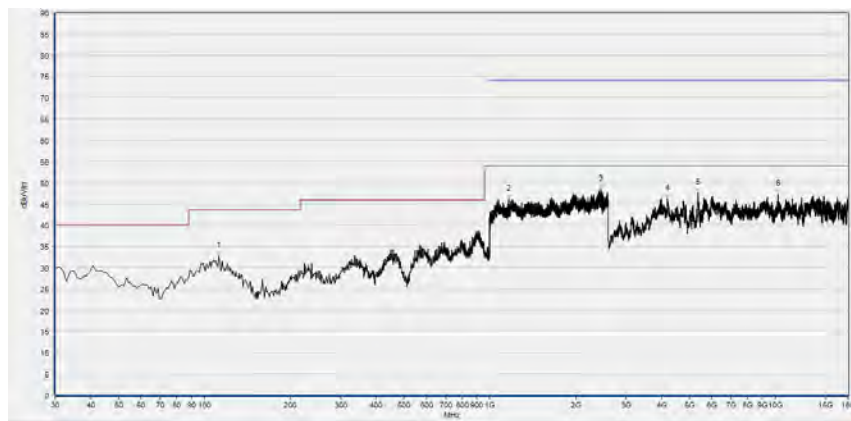


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
110.510	32.17	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1172.267	46.08	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1972.800	48.21	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2824.840	45.32	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3986.000	48.20	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13564.800	48.19	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

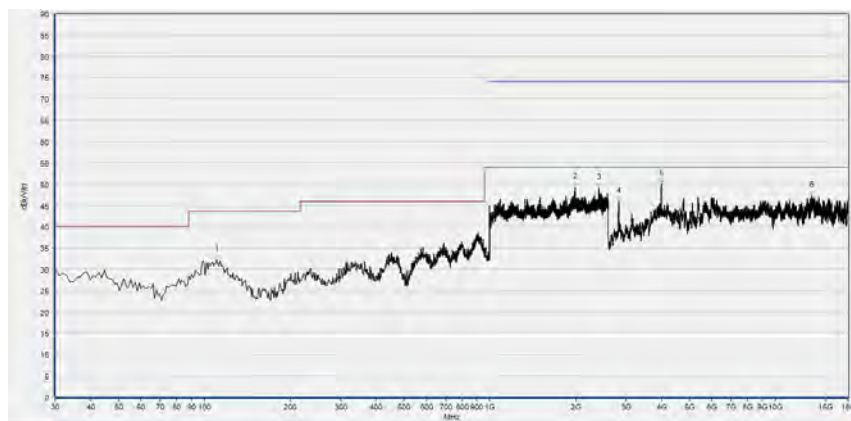


Plot for Channel 6



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
112.450	32.75	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1166.933	46.02	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2454.400	48.38	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4192.360	46.30	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5365.840	47.68	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10232.240	47.23	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

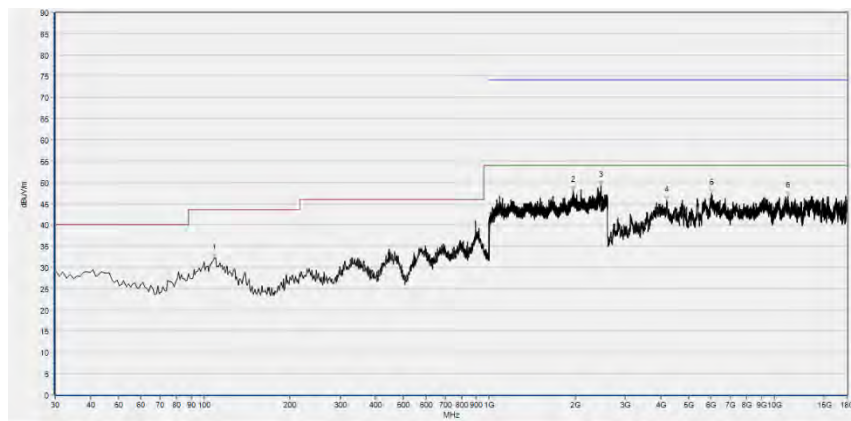


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
110.510	32.21	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1990.933	49.22	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2407.467	49.13	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2831.000	45.85	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3989.080	50.10	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13453.920	47.24	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

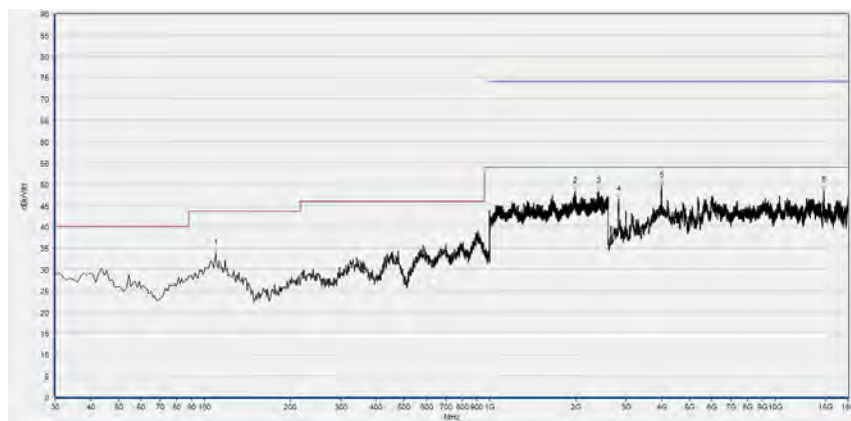


Plot for Channel 11



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
108.570	32.11	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1967.467	48.09	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2464.533	49.24	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4195.440	45.72	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
6021.880	47.40	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11153.160	46.70	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

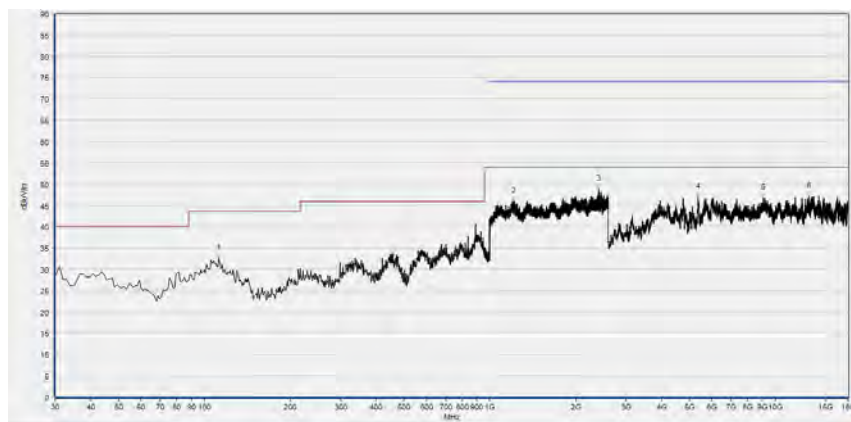


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
109.540	33.70	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1995.733	48.26	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2411.733	48.23	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2824.840	46.50	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3992.160	49.67	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14781.400	48.46	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
112.450	32.57	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1212.267	45.88	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2405.867	48.82	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5365.840	46.86	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9049.520	46.81	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13118.200	47.14	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

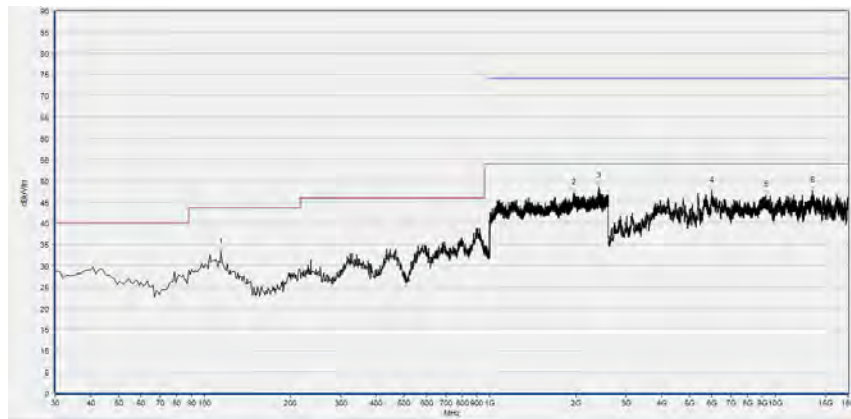


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
105.660	32.93	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1660.267	47.92	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2452.267	48.51	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2827.920	45.42	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5978.760	46.69	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13059.680	46.95	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

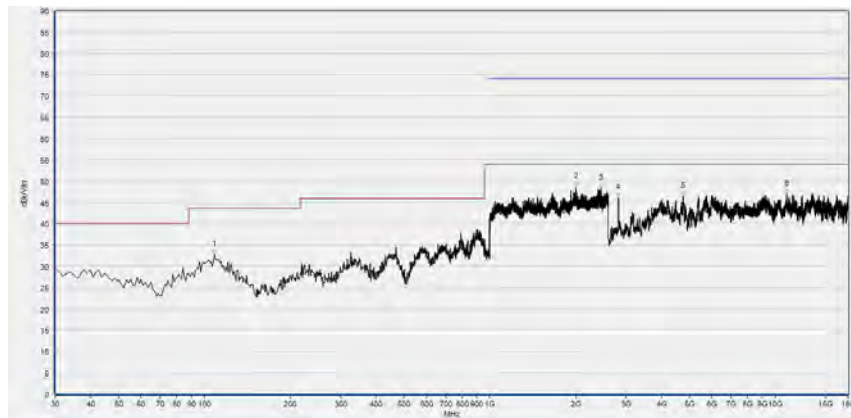


Plot for Channel 6



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
114.390	33.18	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1969.600	47.03	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2408.533	48.55	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5981.840	47.54	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9252.800	46.62	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13481.640	47.57	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

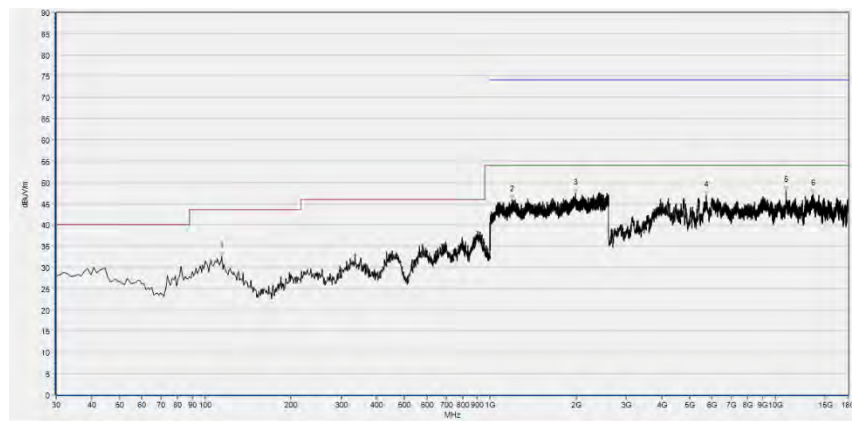


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
108.570	32.70	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1998.933	48.59	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2447.467	48.20	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2821.760	46.10	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4756.000	46.37	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10937.560	46.93	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

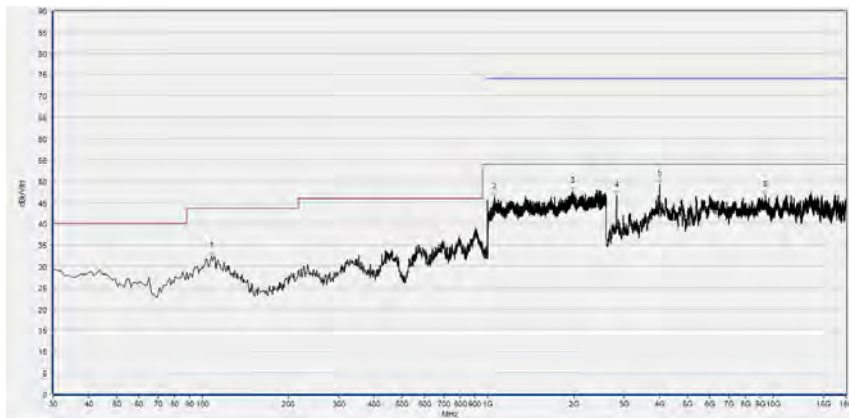


Plot for Channel 11



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
114.390	32.51	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1192.533	45.89	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1991.467	47.35	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5720.040	46.85	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10919.080	48.03	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13555.560	47.28	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

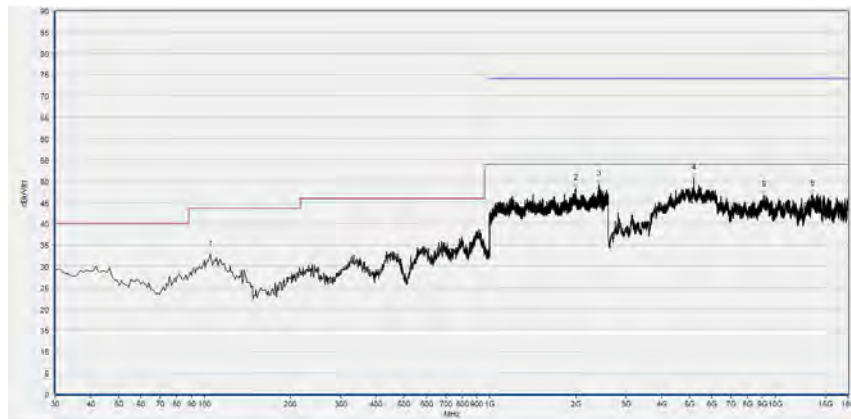


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
107.600	32.40	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1058.133	46.31	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1980.267	47.52	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2824.840	46.60	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3995.240	49.27	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9385.240	46.79	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
104.690	32.75	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1997.333	48.34	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2406.933	49.23	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5174.880	50.57	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9111.120	46.71	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13493.960	47.01	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

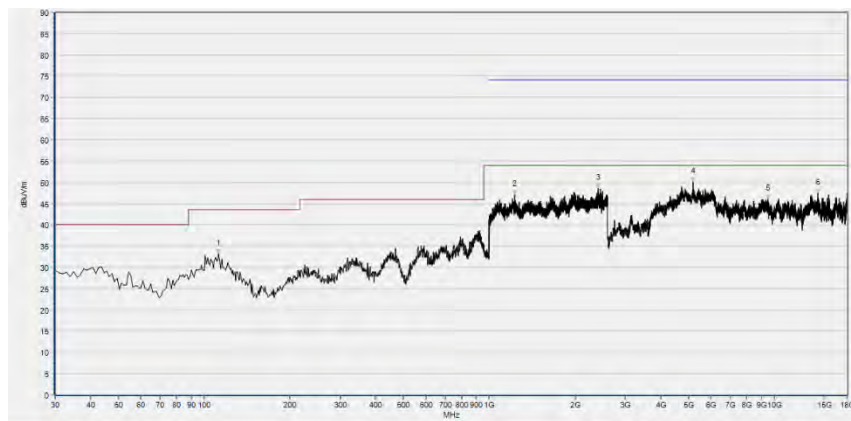


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
111.480	32.19	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1998.400	47.35	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2408.533	48.68	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2831.000	46.60	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3995.240	49.35	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5221.080	49.62	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

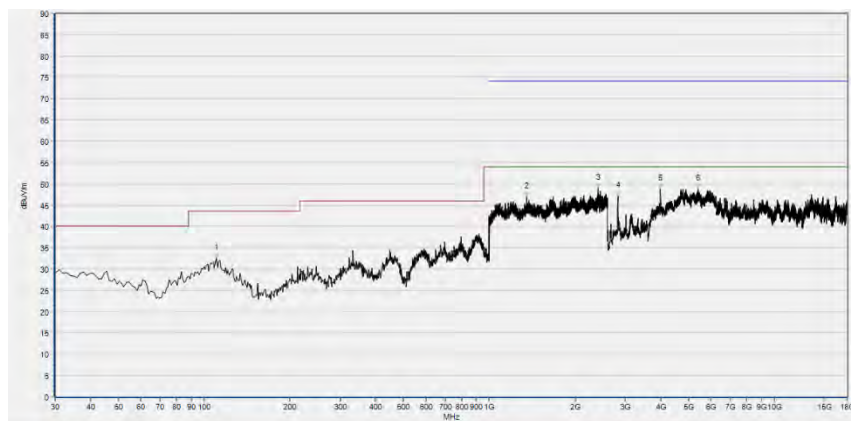


Plot for Channel 6



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
112.450	33.24	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1226.667	47.05	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2414.400	48.61	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5187.200	50.14	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9468.400	46.07	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14183.880	47.47	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

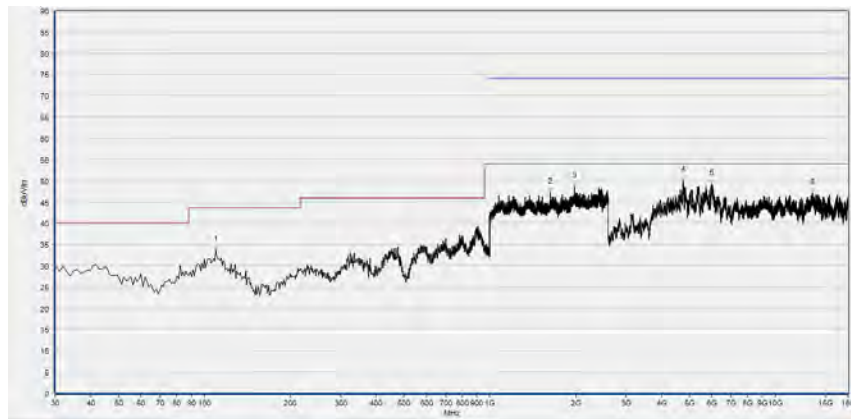
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
110.510	32.52	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1354.133	46.85	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2411.200	48.95	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2824.840	47.09	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3982.920	48.72	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5405.880	48.80	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

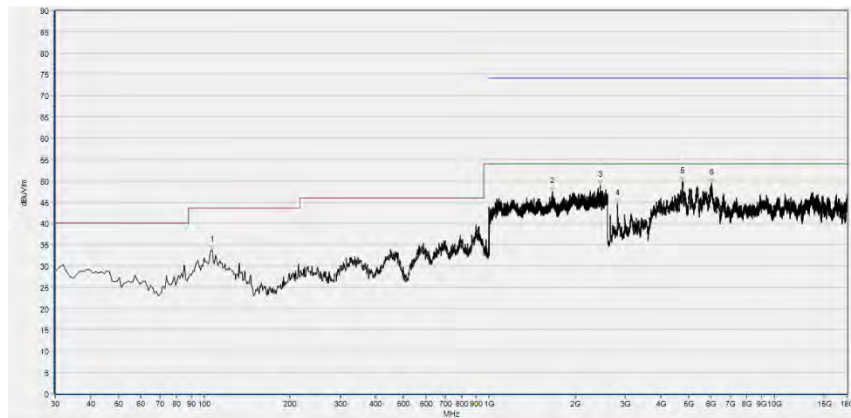
(Antenna Vertical, 30MHz to 18GHz)

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
109.540	33.68	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1632.000	47.34	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1980.800	48.63	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4749.840	50.10	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
6003.400	49.20	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13460.080	47.11	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

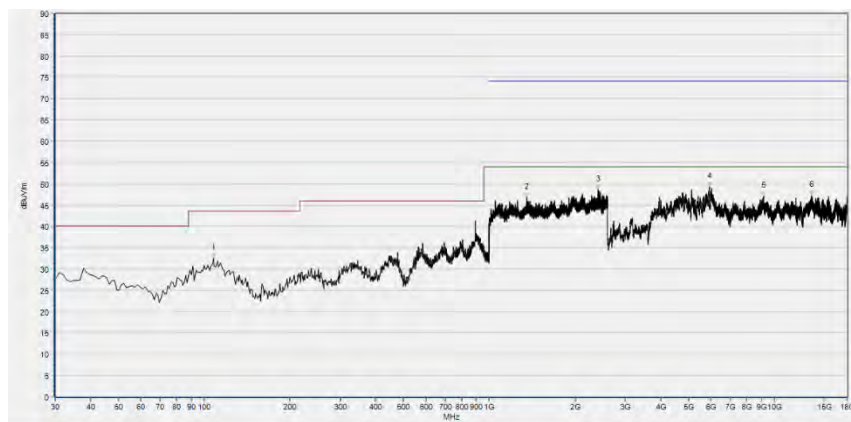


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
106.630	33.73	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1665.067	47.42	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2452.800	48.92	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2821.760	44.54	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4752.920	49.74	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
6037.280	49.52	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

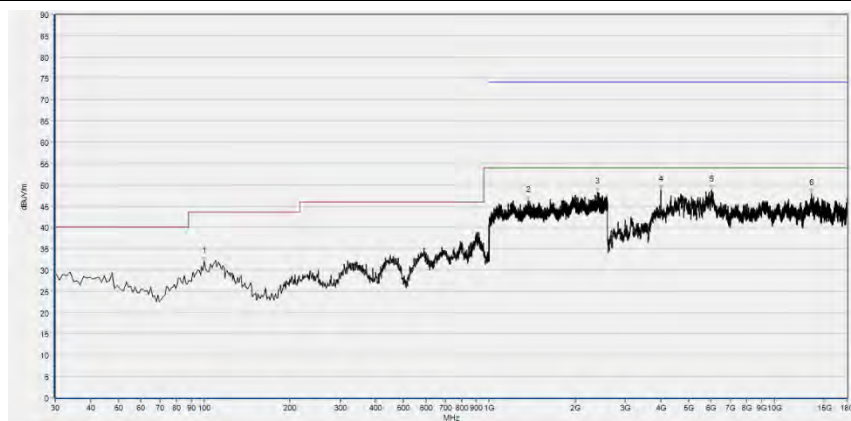
**802.11ac (VHT20) Mode**

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
107.600	32.49	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1349.867	46.83	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2415.467	48.61	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5901.760	49.31	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9163.480	47.06	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13466.240	47.29	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

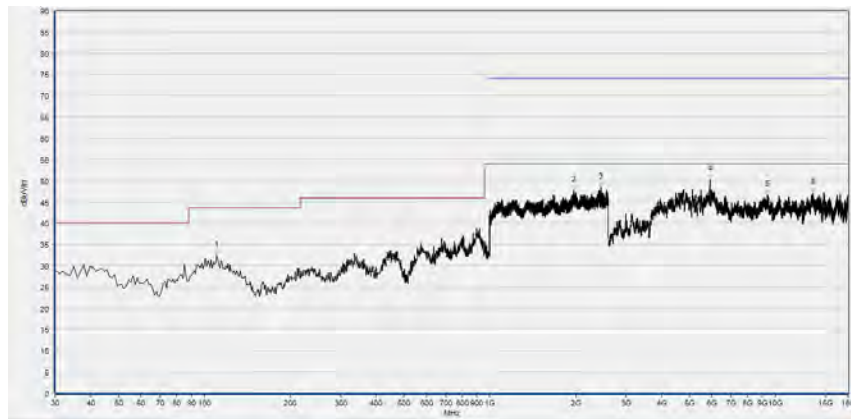


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
99.840	32.02	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1368.000	46.23	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2401.600	48.32	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3992.160	48.76	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
6015.720	48.79	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13493.960	48.01	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

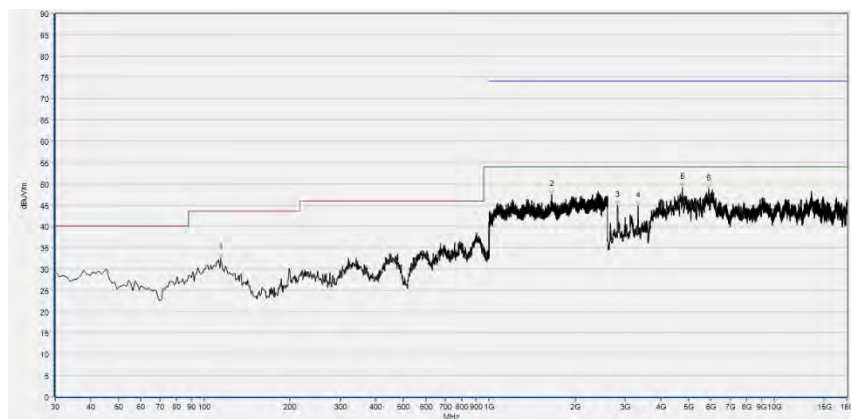


Plot for Channel 6



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
110.510	32.38	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1971.733	47.77	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2448.533	48.41	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5901.760	50.35	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9369.840	46.81	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13574.040	47.17	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

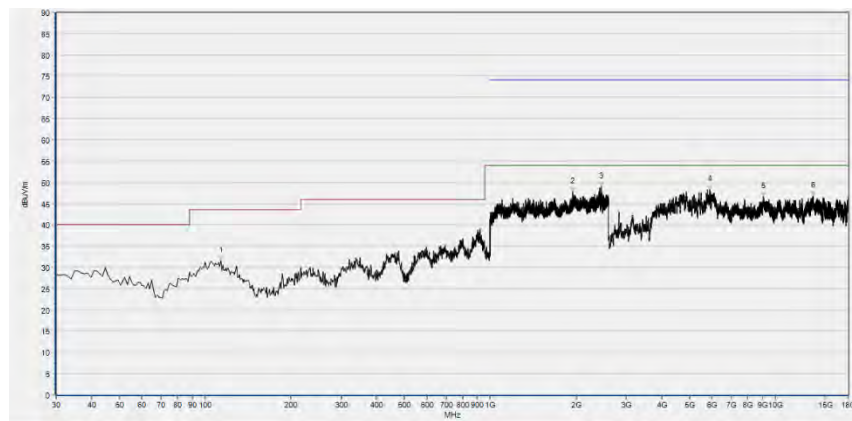


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
114.390	32.52	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1660.267	47.51	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2821.760	44.89	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3326.880	44.69	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4756.000	49.15	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5895.600	48.79	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

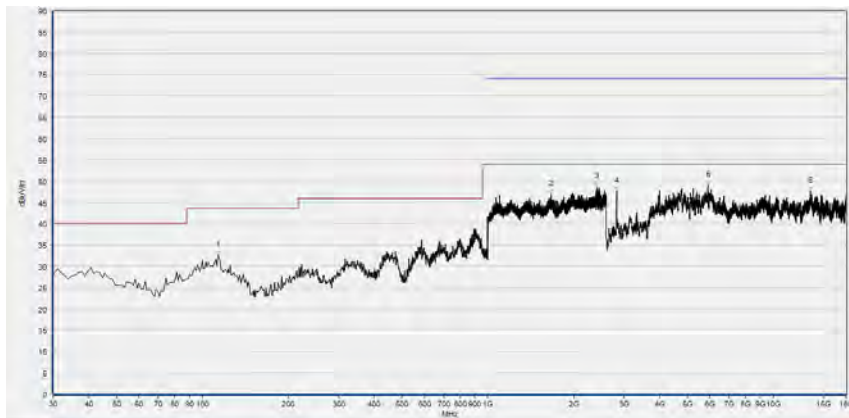


Plot for Channel 11



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
113.420	31.51	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1943.467	47.68	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2451.733	48.93	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5889.440	48.24	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9089.560	46.58	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13580.200	46.84	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

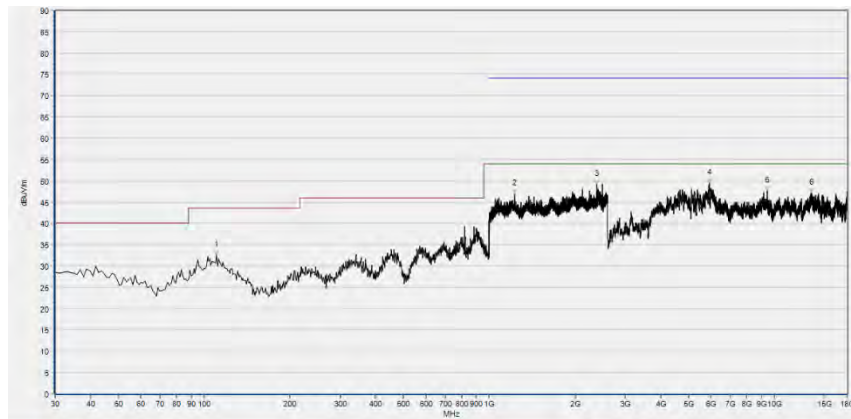


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
113.420	32.59	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1663.467	46.98	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2406.933	48.57	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2824.840	47.67	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5901.760	48.94	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13497.040	47.62	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

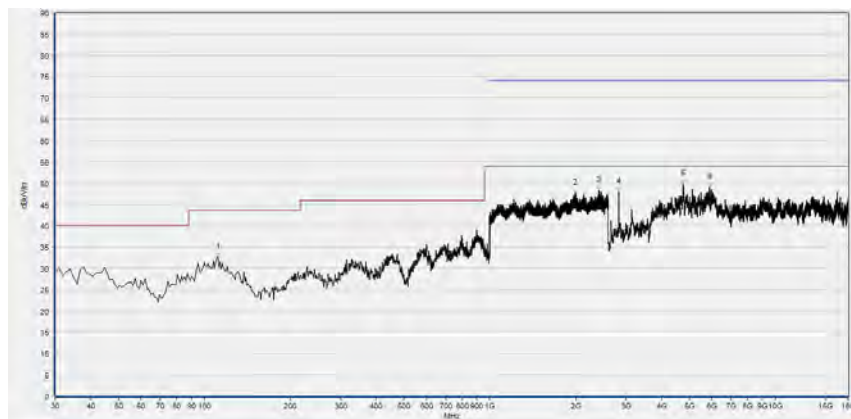
**802.11ac (VHT40) Mode**

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
110.510	32.44	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1226.667	46.97	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2387.200	49.14	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5904.840	49.50	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9456.080	47.60	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13481.640	47.14	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

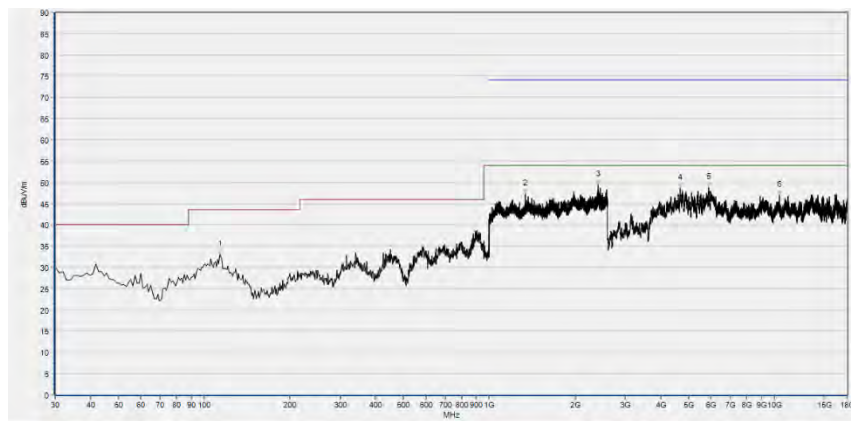


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
111.480	32.60	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1992.533	47.64	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2405.333	48.22	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2827.920	47.94	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4765.240	49.76	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5892.520	48.91	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

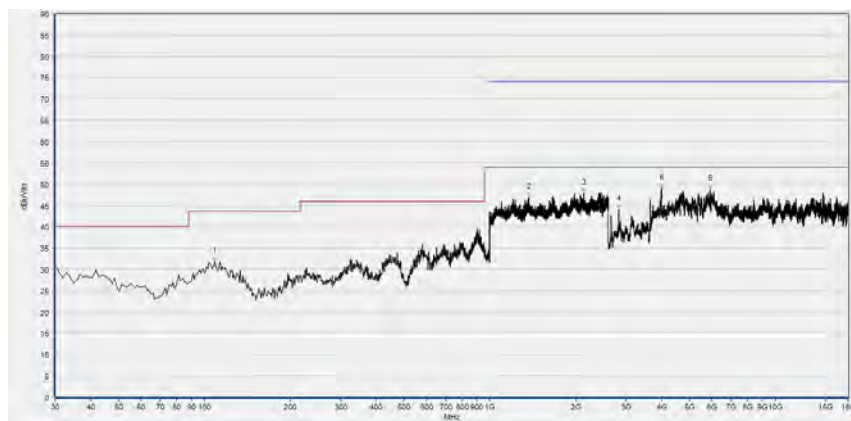


Plot for Channel 6



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
113.420	33.09	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1339.733	47.33	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2406.933	49.49	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4672.840	48.52	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5886.360	48.77	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10404.720	46.88	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

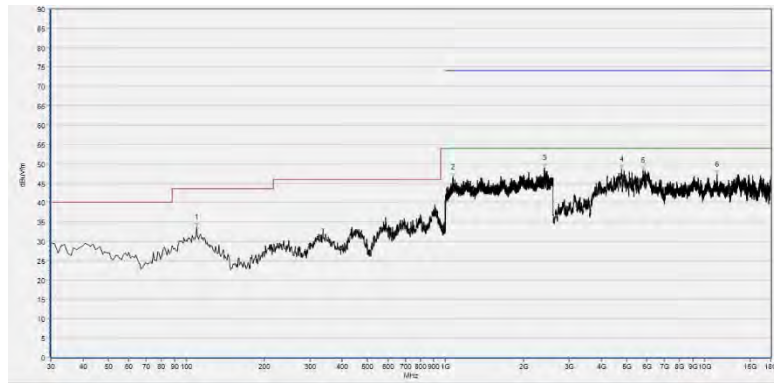


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
108.570	31.89	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1371.200	46.88	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2128.533	47.97	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2824.840	44.05	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3992.160	48.87	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5901.760	48.76	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
109.540	33.68	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1069.867	46.57	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2411.200	48.86	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4783.720	48.66	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5790.880	48.23	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11137.760	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
110.510	31.83	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1354.133	46.56	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2417.067	48.77	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2821.760	48.17	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5895.600	48.34	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9092.640	47.49	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

END OF REPORT