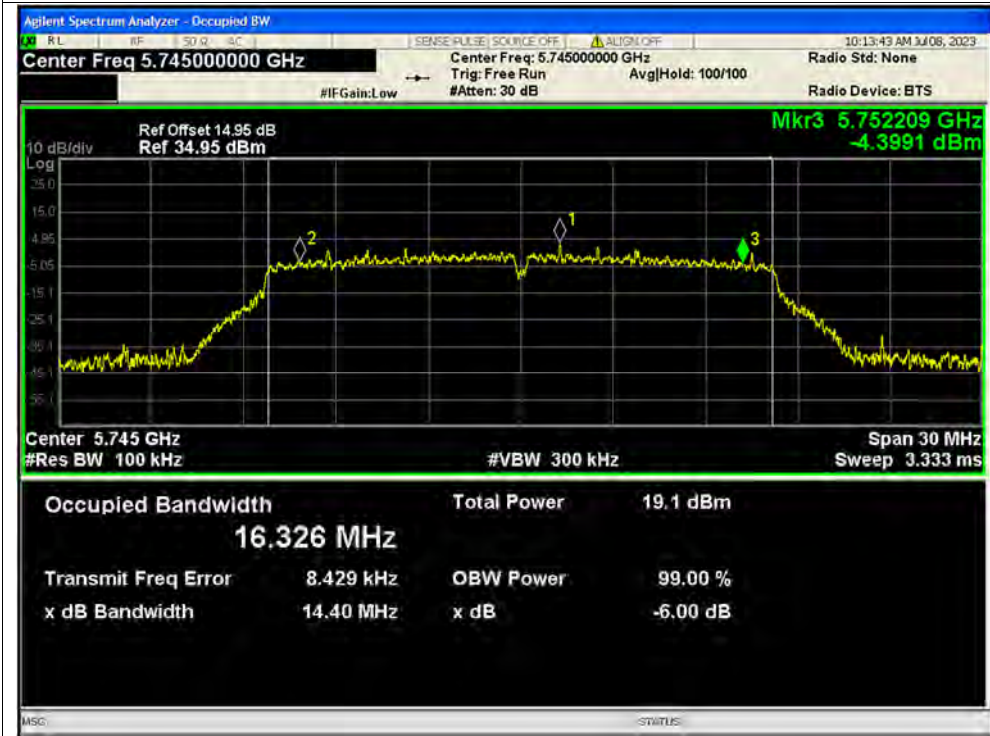


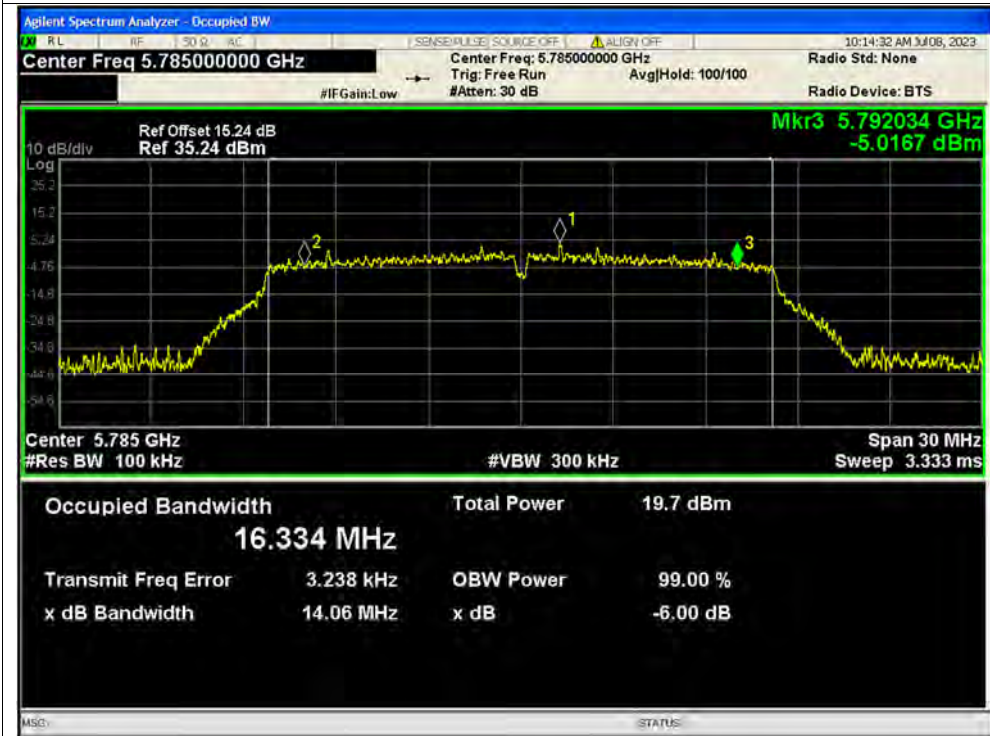


Test Graphs

-6dB Bandwidth NVNT a 5745MHz Ant1

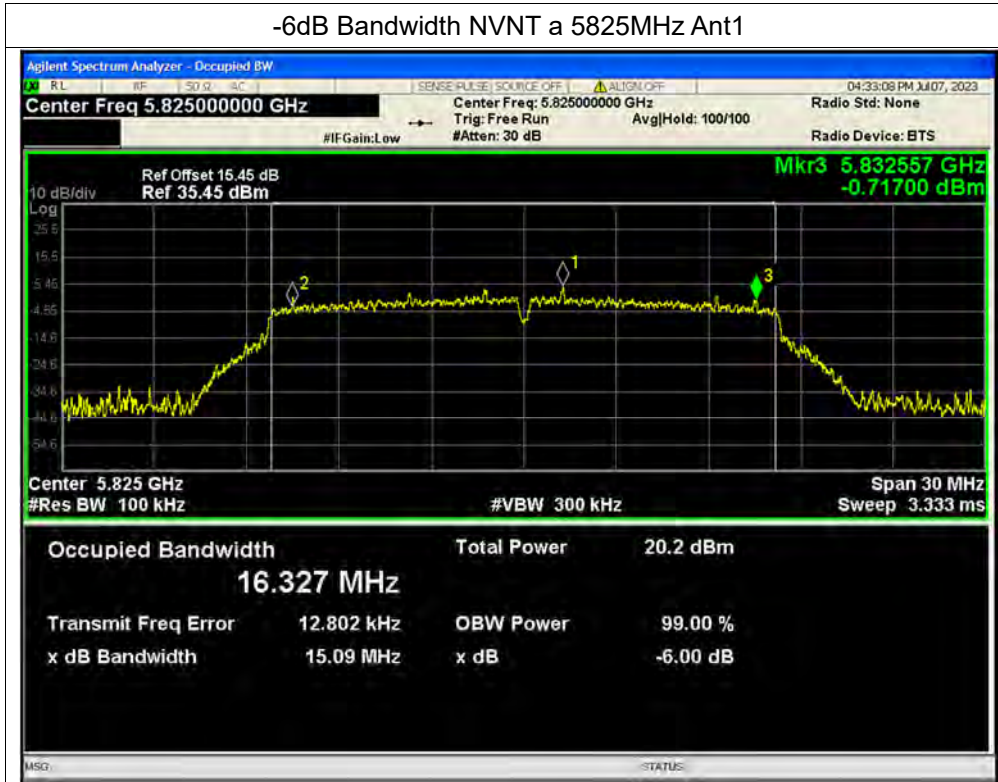


-6dB Bandwidth NVNT a 5785MHz Ant1

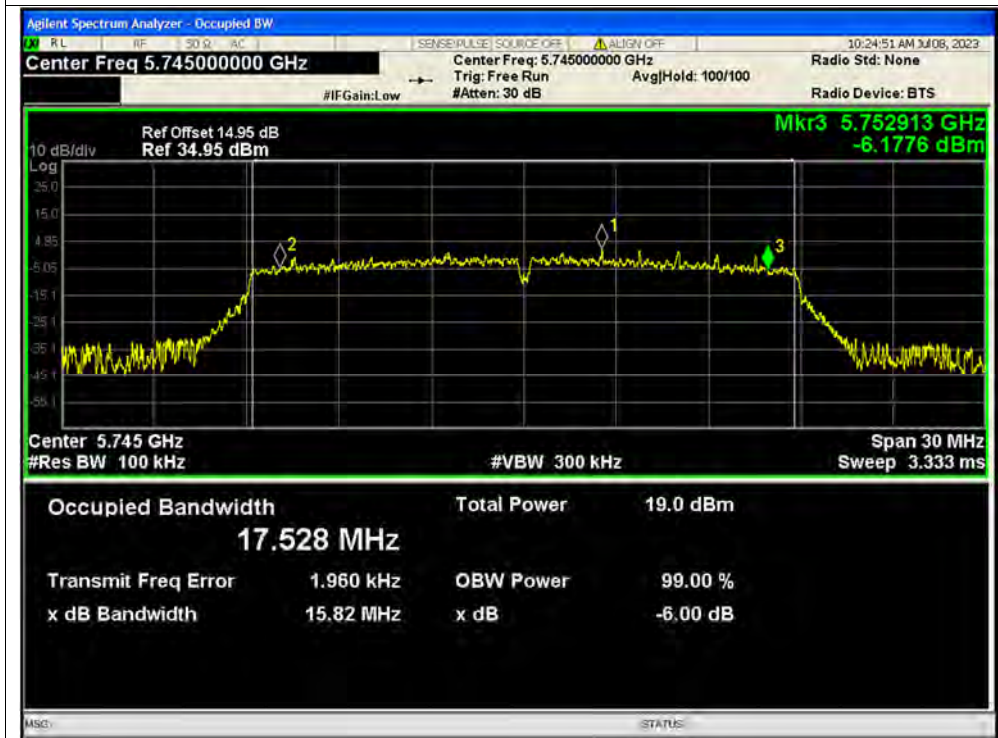




-6dB Bandwidth NVNT a 5825MHz Ant1

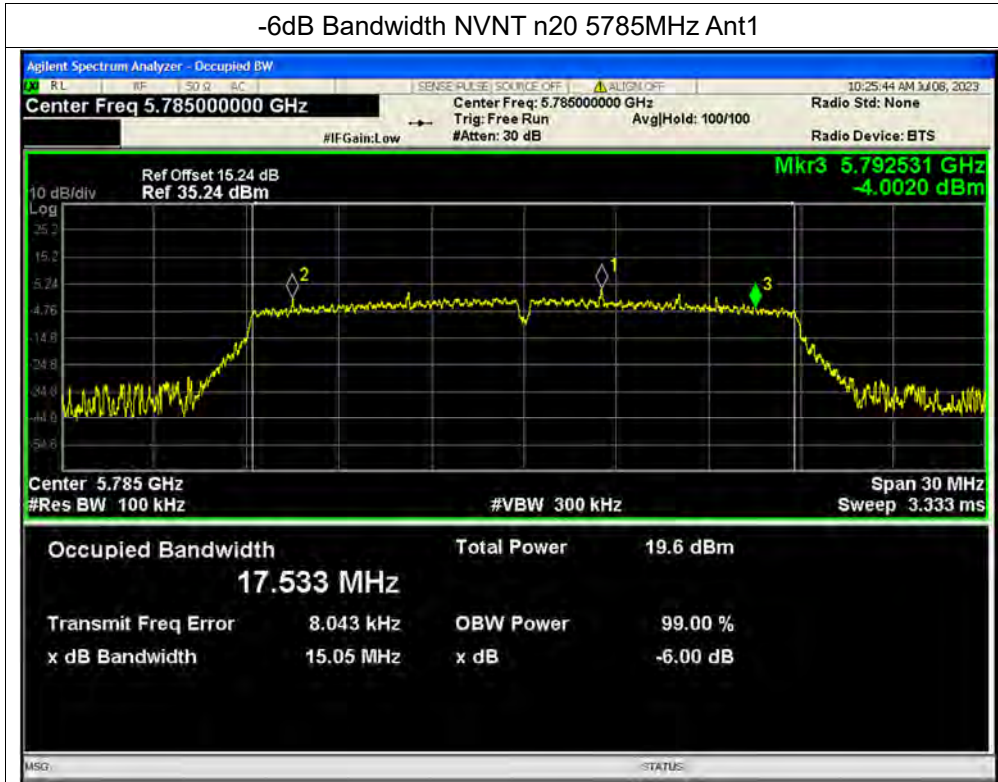


-6dB Bandwidth NVNT n20 5745MHz Ant1

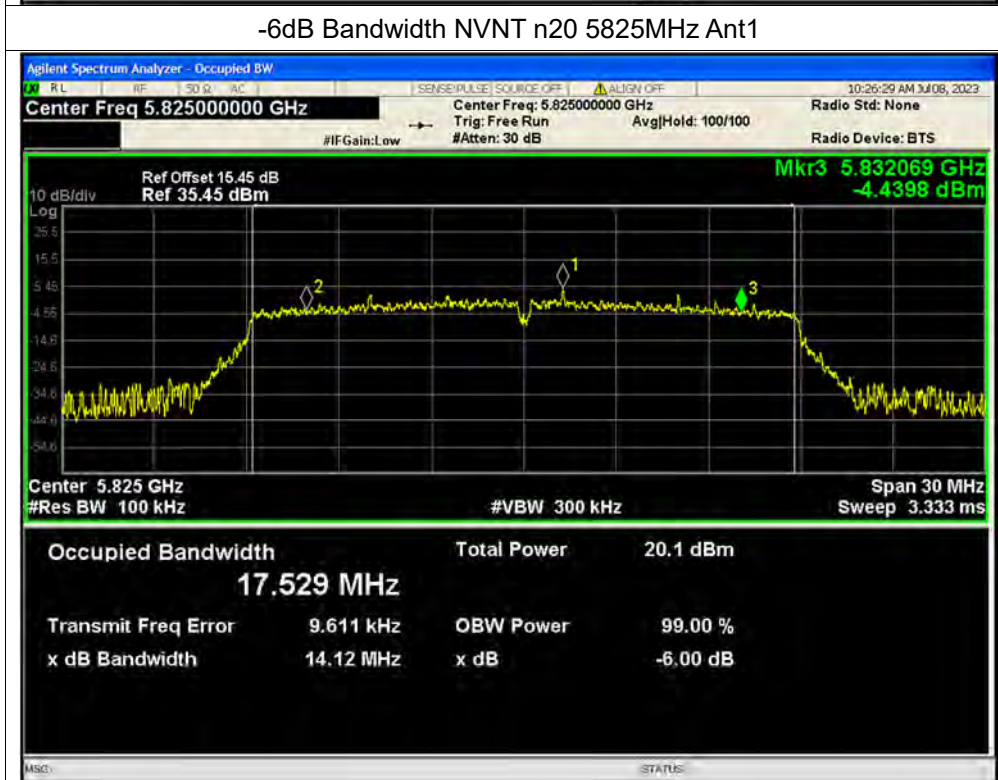




-6dB Bandwidth NVNT n20 5785MHz Ant1

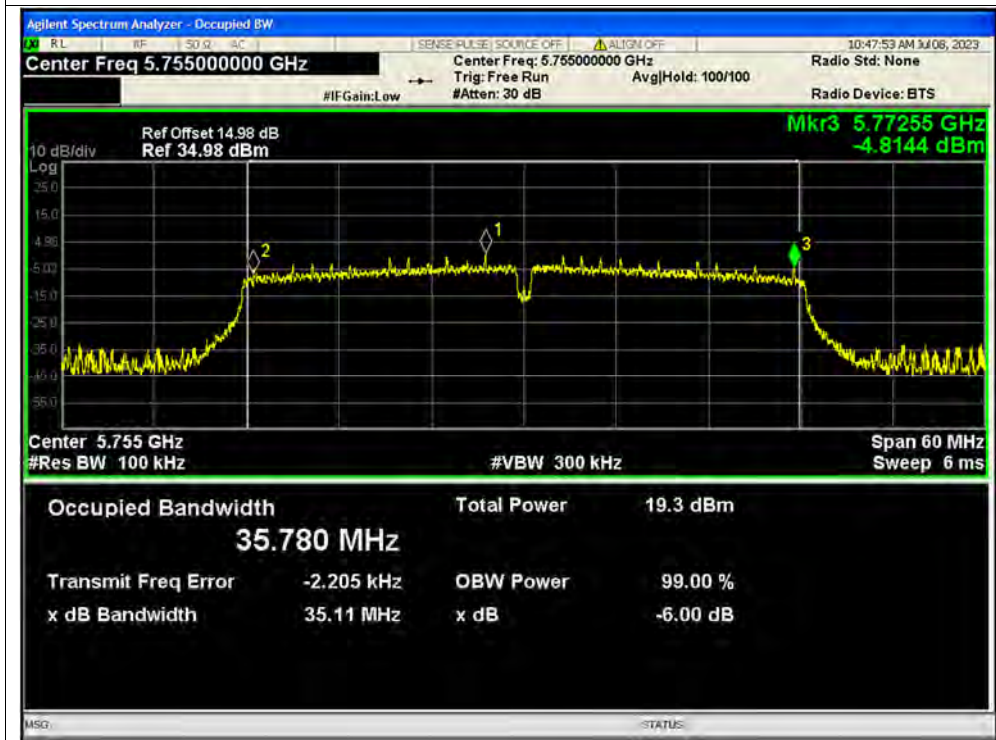


-6dB Bandwidth NVNT n20 5825MHz Ant1

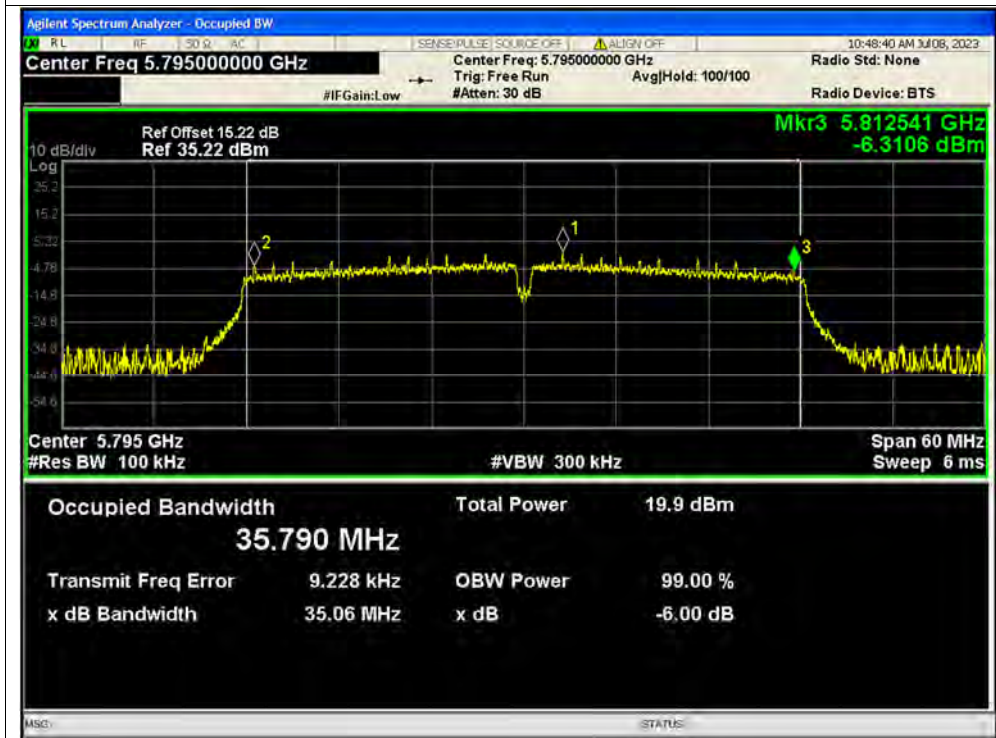




-6dB Bandwidth NVNT n40 5755MHz Ant1

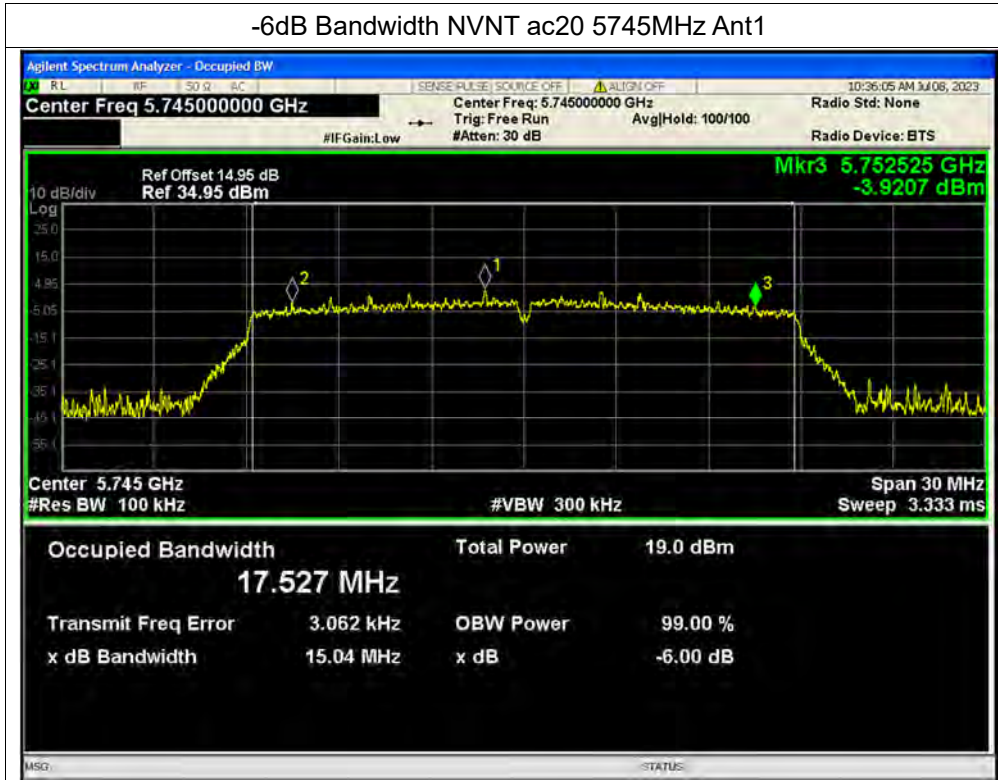


-6dB Bandwidth NVNT n40 5795MHz Ant1

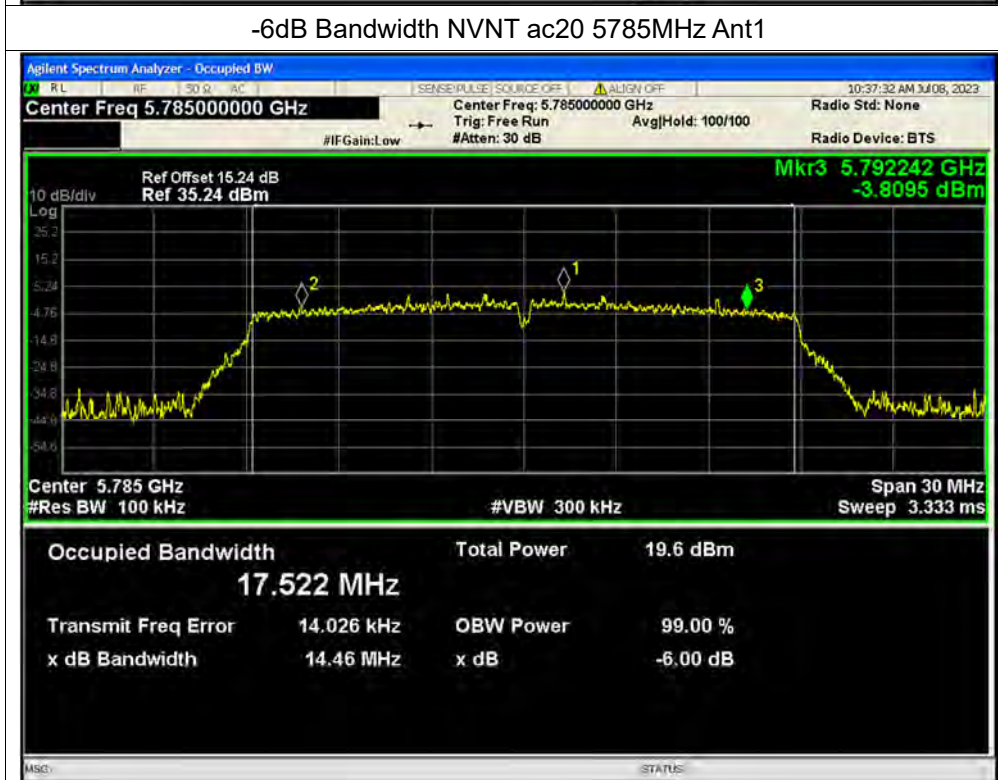




-6dB Bandwidth NVNT ac20 5745MHz Ant1

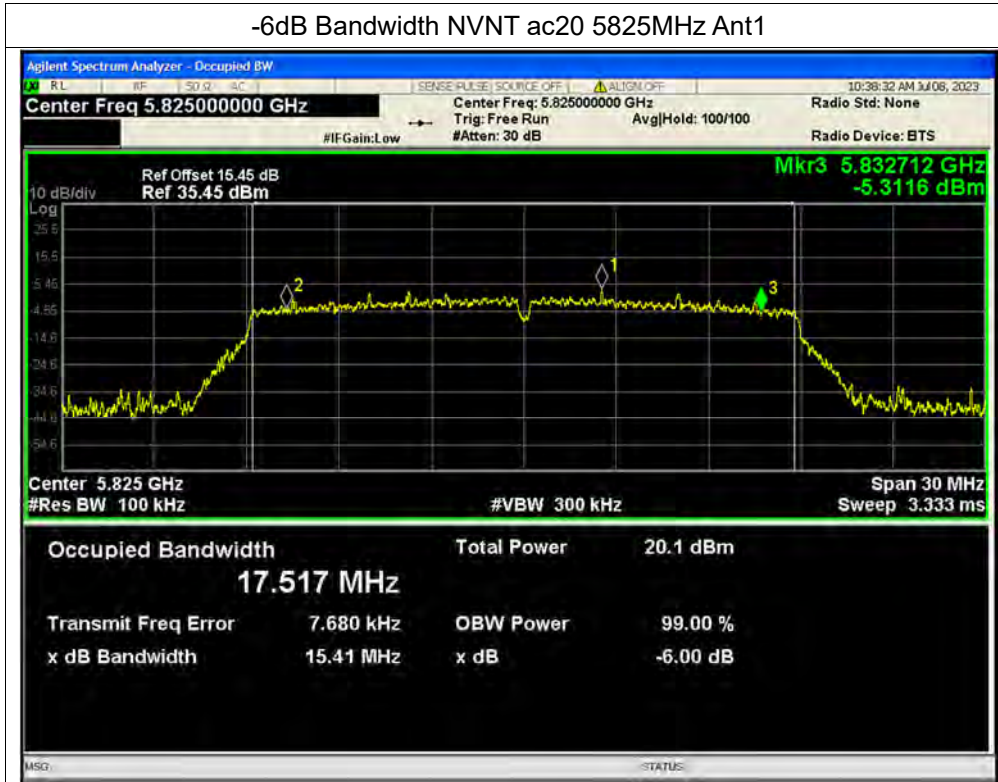


-6dB Bandwidth NVNT ac20 5785MHz Ant1

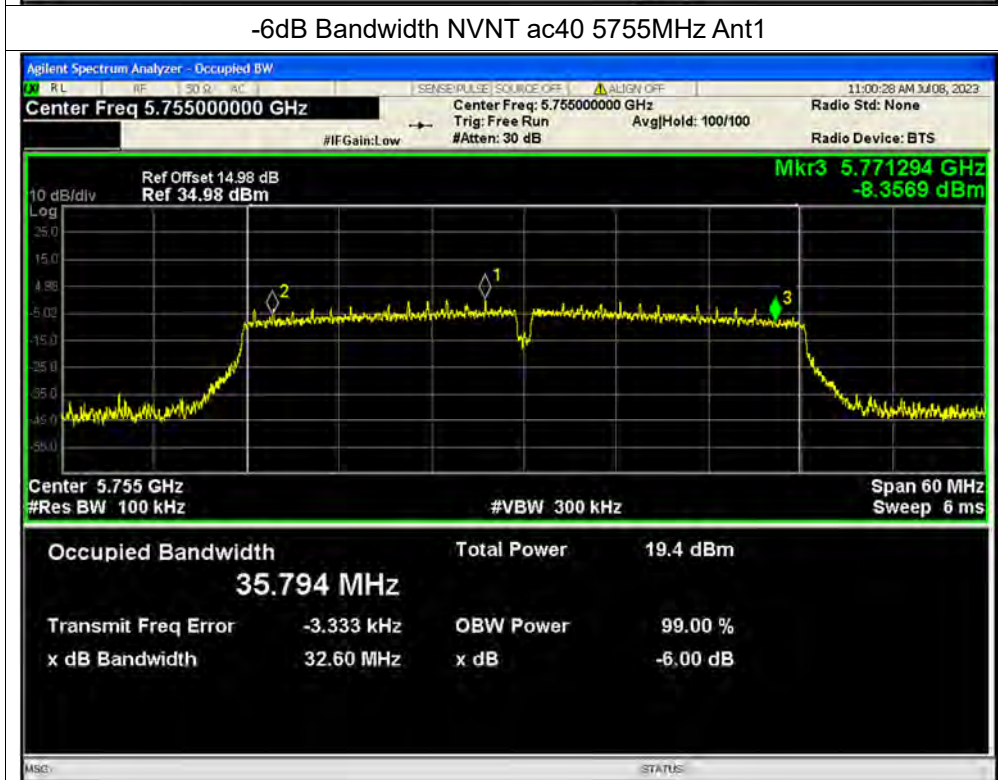




-6dB Bandwidth NVNT ac20 5825MHz Ant1

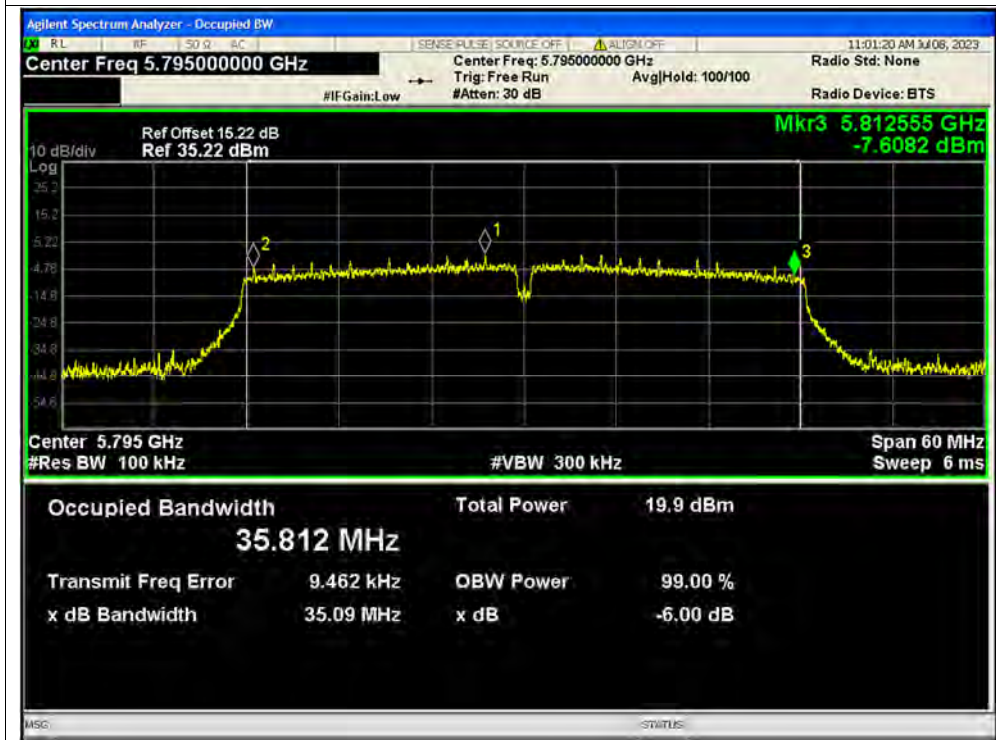


-6dB Bandwidth NVNT ac40 5755MHz Ant1

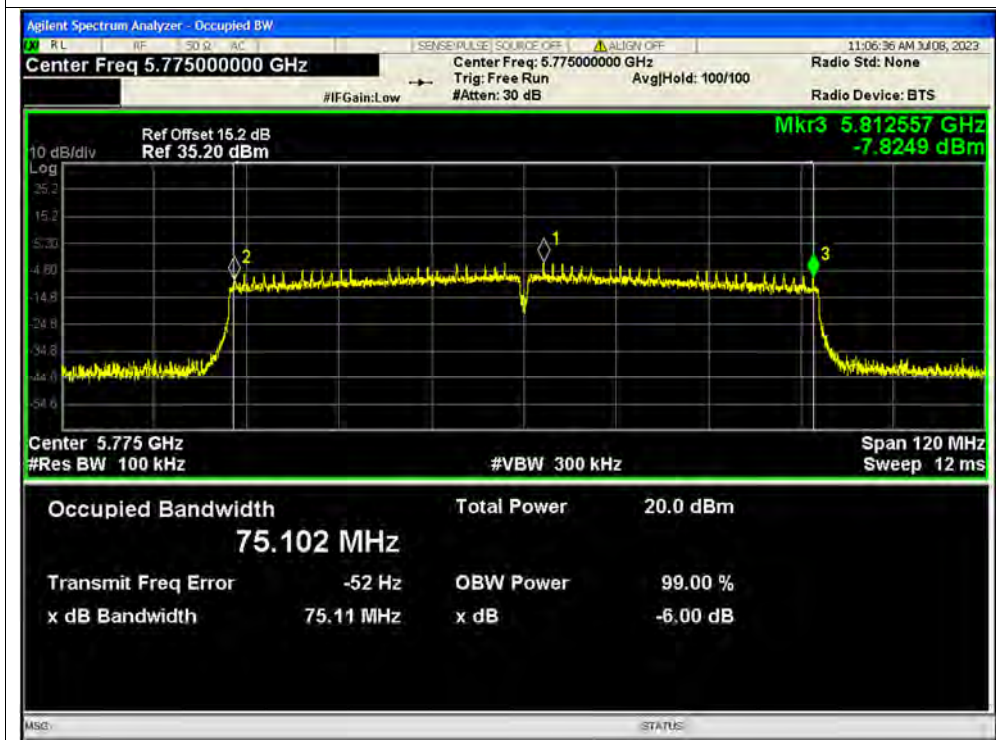




-6dB Bandwidth NVNT ac40 5795MHz Ant1



-6dB Bandwidth NVNT ac80 5775MHz Ant1



**A.4. Peak Power Spectral Density**

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-4.05	0.14	-3.91	11	Pass
NVNT	a	5220	Ant1	4.03	0.14	4.17	11	Pass
NVNT	a	5240	Ant1	4.14	0.14	4.28	11	Pass
NVNT	a	5260	Ant1	4.32	0.14	4.46	11	Pass
NVNT	a	5300	Ant1	4.84	0.14	4.98	11	Pass
NVNT	a	5320	Ant1	5.04	0.14	5.18	11	Pass
NVNT	a	5500	Ant1	4.05	0.14	4.19	11	Pass
NVNT	a	5580	Ant1	2.63	0.14	2.77	11	Pass
NVNT	a	5600	Ant1	2.54	0.14	2.68	11	Pass
NVNT	a	5720	Ant1	2.8	0.14	2.94	11	Pass
NVNT	a	5745	Ant1	0.16	0.14	0.3	30	Pass
NVNT	a	5785	Ant1	0.75	0.14	0.89	30	Pass
NVNT	a	5825	Ant1	1.26	0.14	1.4	30	Pass
NVNT	n20	5180	Ant1	2.78	0.14	2.92	11	Pass
NVNT	n20	5220	Ant1	3.28	0.15	3.43	11	Pass
NVNT	n20	5240	Ant1	3.35	0.14	3.49	11	Pass
NVNT	n20	5260	Ant1	3.34	0.14	3.48	11	Pass
NVNT	n20	5300	Ant1	4	0.14	4.14	11	Pass
NVNT	n20	5320	Ant1	4.01	0.14	4.15	11	Pass
NVNT	n20	5500	Ant1	3.14	0.14	3.28	11	Pass
NVNT	n20	5580	Ant1	2.2	0.14	2.34	11	Pass
NVNT	n20	5600	Ant1	2.35	0.15	2.5	11	Pass
NVNT	n20	5720	Ant1	2.47	0.15	2.62	11	Pass
NVNT	n20	5745	Ant1	-0.1	0.15	0.05	30	Pass
NVNT	n20	5785	Ant1	0.46	0.15	0.61	30	Pass
NVNT	n20	5825	Ant1	1	0.14	1.14	30	Pass
NVNT	n40	5190	Ant1	-0.35	0.29	-0.05	11	Pass
NVNT	n40	5230	Ant1	0.05	0.29	0.34	11	Pass
NVNT	n40	5270	Ant1	0.41	0.29	0.7	11	Pass
NVNT	n40	5310	Ant1	0.81	0.29	1.1	11	Pass
NVNT	n40	5510	Ant1	-0.09	0.29	0.2	11	Pass
NVNT	n40	5550	Ant1	0.01	0.29	0.3	11	Pass
NVNT	n40	5630	Ant1	-1.18	0.29	-0.89	11	Pass
NVNT	n40	5710	Ant1	-0.81	0.29	-0.52	11	Pass



NVNT	n40	5755	Ant1	-3.34	0.29	-3.05	30	Pass
NVNT	n40	5795	Ant1	-2.56	0.29	-2.27	30	Pass
NVNT	ac20	5180	Ant1	2.67	0.14	2.81	11	Pass
NVNT	ac20	5220	Ant1	3.25	0.14	3.39	11	Pass
NVNT	ac20	5240	Ant1	3.29	0.14	3.43	11	Pass
NVNT	ac20	5260	Ant1	3.21	0.14	3.35	11	Pass
NVNT	ac20	5300	Ant1	3.9	0.15	4.05	11	Pass
NVNT	ac20	5320	Ant1	4	0.14	4.14	11	Pass
NVNT	ac20	5500	Ant1	3.32	0.14	3.46	11	Pass
NVNT	ac20	5580	Ant1	2.27	0.15	2.42	11	Pass
NVNT	ac20	5600	Ant1	2.33	0.15	2.48	11	Pass
NVNT	ac20	5720	Ant1	2.59	0.14	2.73	11	Pass
NVNT	ac20	5745	Ant1	-0.18	0.14	-0.04	30	Pass
NVNT	ac20	5785	Ant1	0.37	0.14	0.51	30	Pass
NVNT	ac20	5825	Ant1	0.98	0.15	1.13	30	Pass
NVNT	ac40	5190	Ant1	-0.25	0.28	0.03	11	Pass
NVNT	ac40	5230	Ant1	0.19	0.28	0.47	11	Pass
NVNT	ac40	5270	Ant1	0.29	0.28	0.57	11	Pass
NVNT	ac40	5310	Ant1	0.88	0.28	1.16	11	Pass
NVNT	ac40	5510	Ant1	-0.21	0.28	0.07	11	Pass
NVNT	ac40	5550	Ant1	-0.2	0.28	0.08	11	Pass
NVNT	ac40	5630	Ant1	-1.14	0.28	-0.86	11	Pass
NVNT	ac40	5710	Ant1	-0.93	0.28	-0.65	11	Pass
NVNT	ac40	5755	Ant1	-3.25	0.28	-2.97	30	Pass
NVNT	ac40	5795	Ant1	-2.59	0.28	-2.3	30	Pass
NVNT	ac80	5210	Ant1	-3.34	0.55	-2.79	11	Pass
NVNT	ac80	5290	Ant1	-2.84	0.55	-2.29	11	Pass
NVNT	ac80	5530	Ant1	-3.42	0.58	-2.84	11	Pass
NVNT	ac80	5610	Ant1	-4.06	0.55	-3.51	11	Pass
NVNT	ac80	5690	Ant1	-3.99	0.55	-3.44	11	Pass
NVNT	ac80	5775	Ant1	-6.2	0.55	-5.65	30	Pass

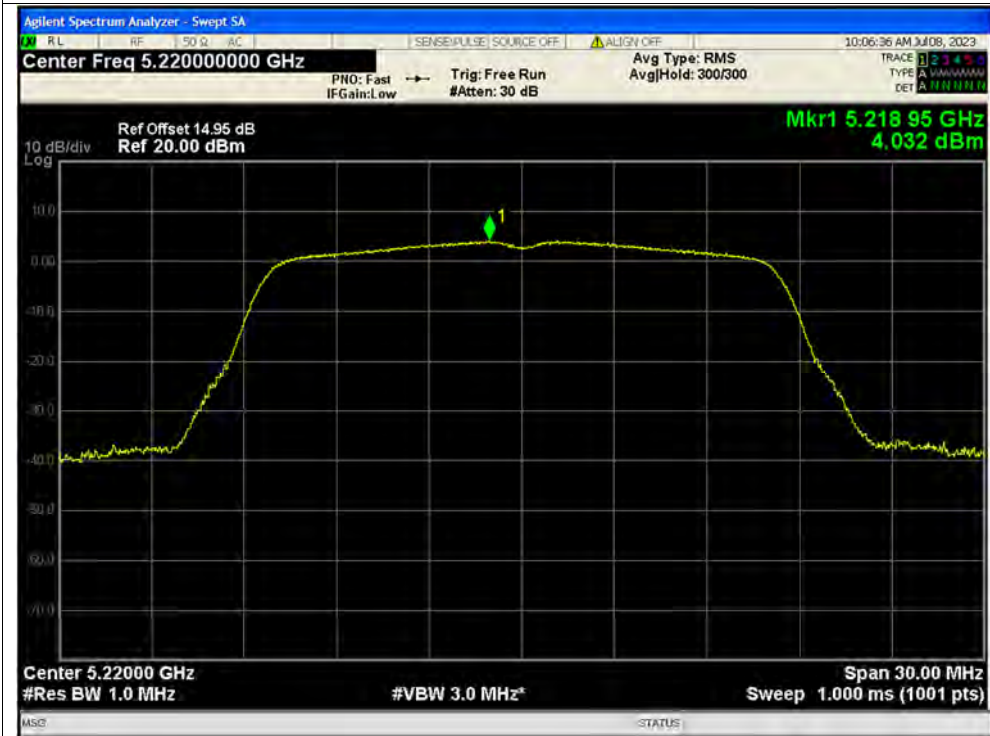


Test Graphs

PSD NVNT a 5180MHz Ant1



PSD NVNT a 5220MHz Ant1



PSD NVNT a 5240MHz Ant1



PSD NVNT a 5260MHz Ant1





PSD NVNT a 5300MHz Ant1



PSD NVNT a 5320MHz Ant1





PSD NVNT a 5500MHz Ant1



PSD NVNT a 5580MHz Ant1



PSD NVNT a 5600MHz Ant1



PSD NVNT a 5720MHz Ant1





PSD NVNT a 5745MHz Ant1



PSD NVNT a 5785MHz Ant1



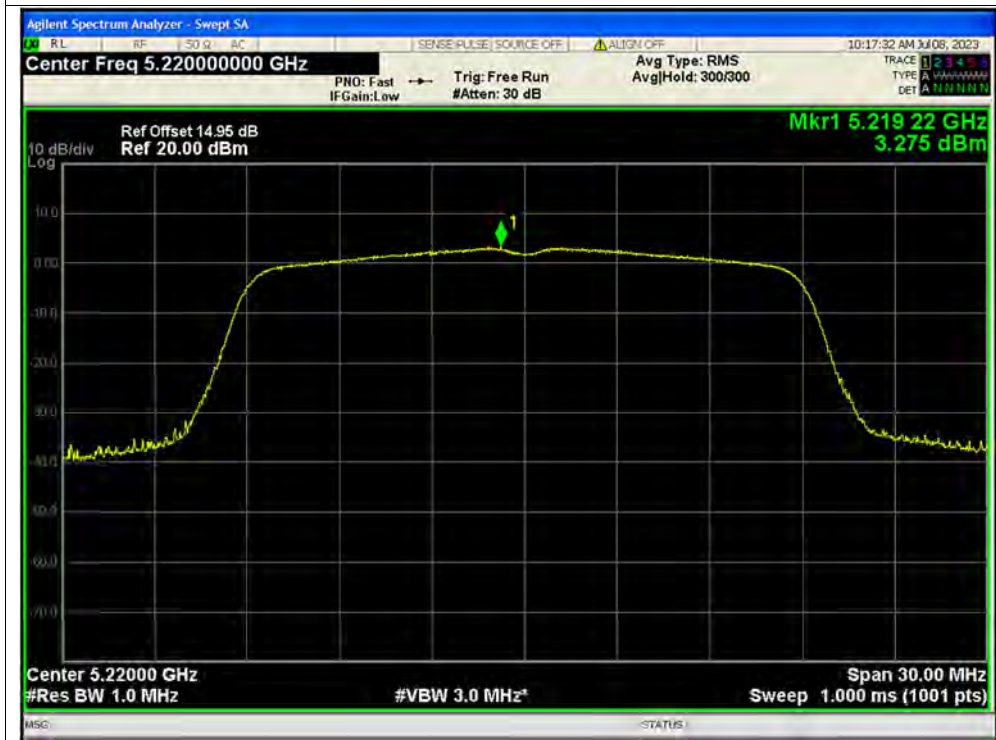
PSD NVNT a 5825MHz Ant1



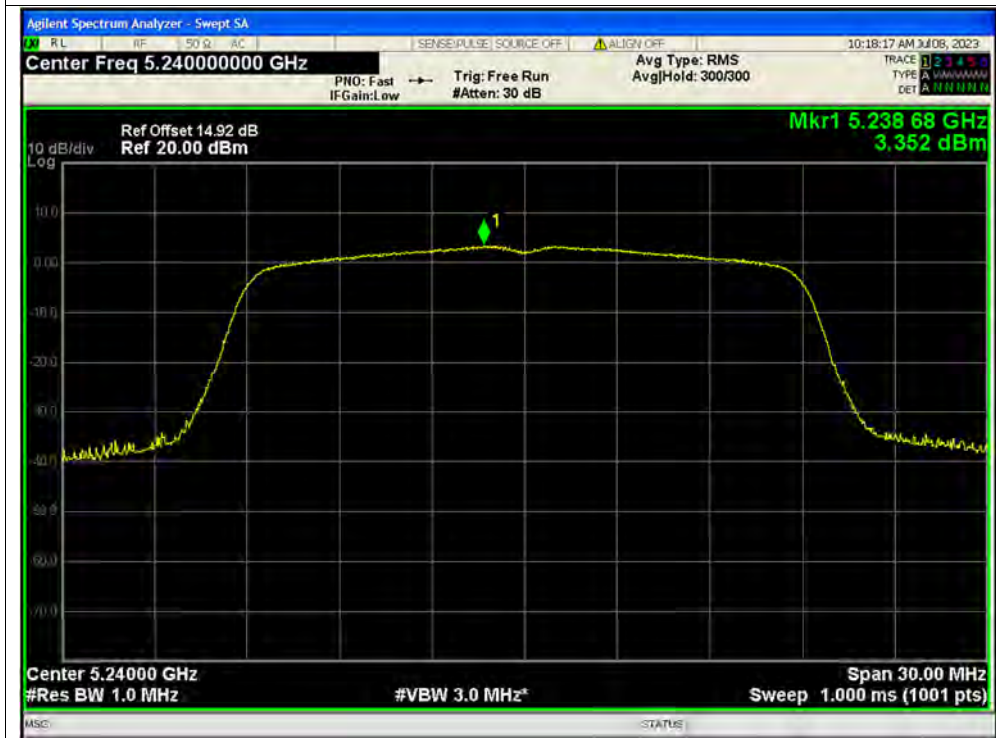
PSD NVNT n20 5180MHz Ant1



PSD NVNT n20 5220MHz Ant1



PSD NVNT n20 5240MHz Ant1





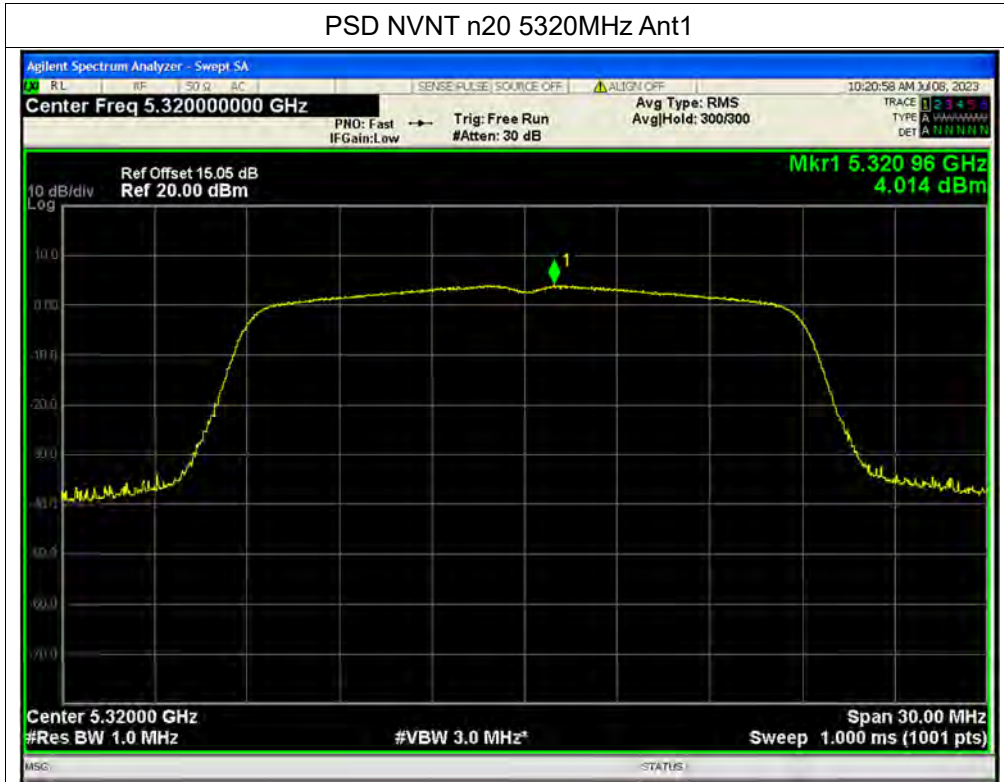
PSD NVNT n20 5260MHz Ant1



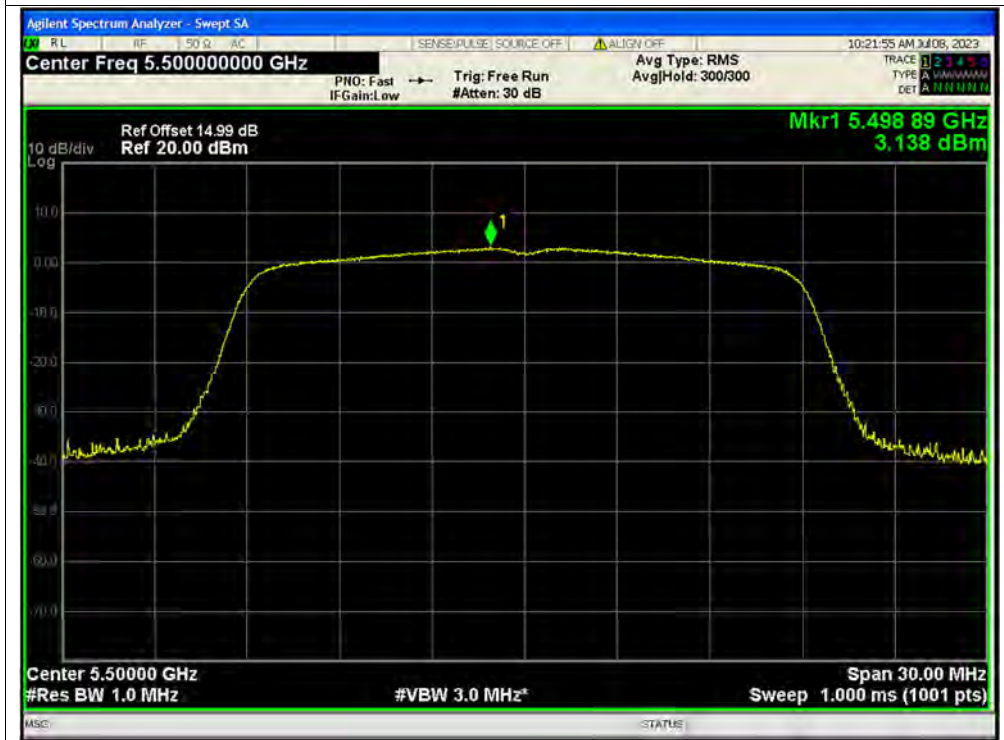
PSD NVNT n20 5300MHz Ant1



PSD NVNT n20 5320MHz Ant1



PSD NVNT n20 5500MHz Ant1



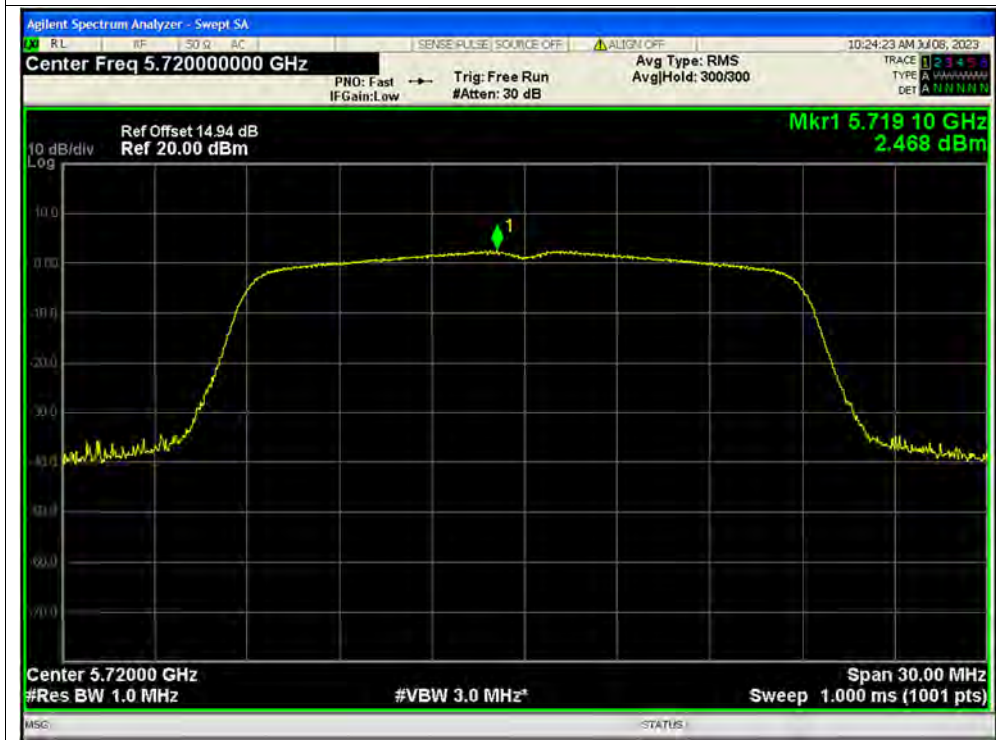
PSD NVNT n20 5580MHz Ant1



PSD NVNT n20 5600MHz Ant1



PSD NVNT n20 5720MHz Ant1



PSD NVNT n20 5745MHz Ant1



PSD NVNT n20 5785MHz Ant1



PSD NVNT n20 5825MHz Ant1





PSD NVNT n40 5190MHz Ant1

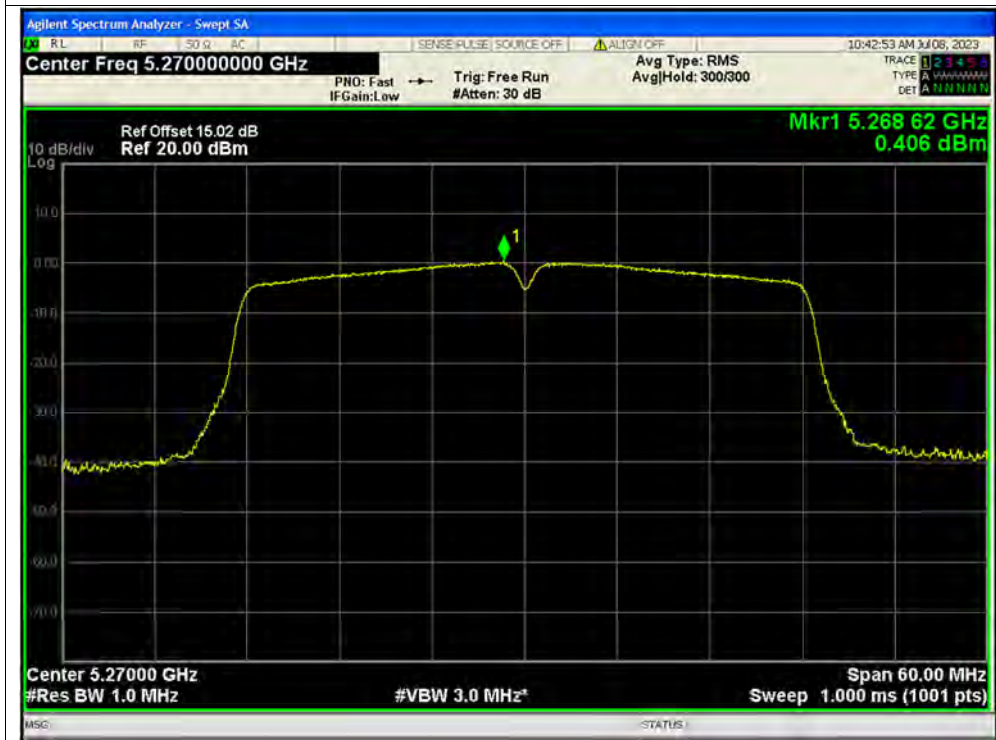


PSD NVNT n40 5230MHz Ant1





PSD NVNT n40 5270MHz Ant1



PSD NVNT n40 5310MHz Ant1

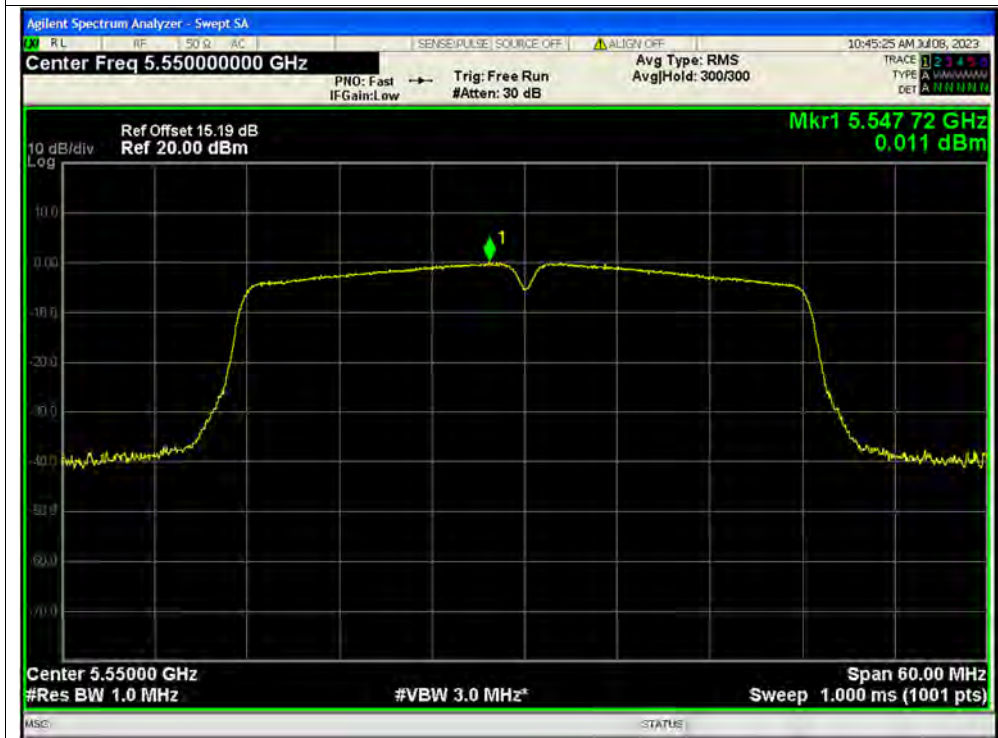




PSD NVNT n40 5510MHz Ant1



PSD NVNT n40 5550MHz Ant1



PSD NVNT n40 5630MHz Ant1



PSD NVNT n40 5710MHz Ant1



PSD NVNT n40 5755MHz Ant1



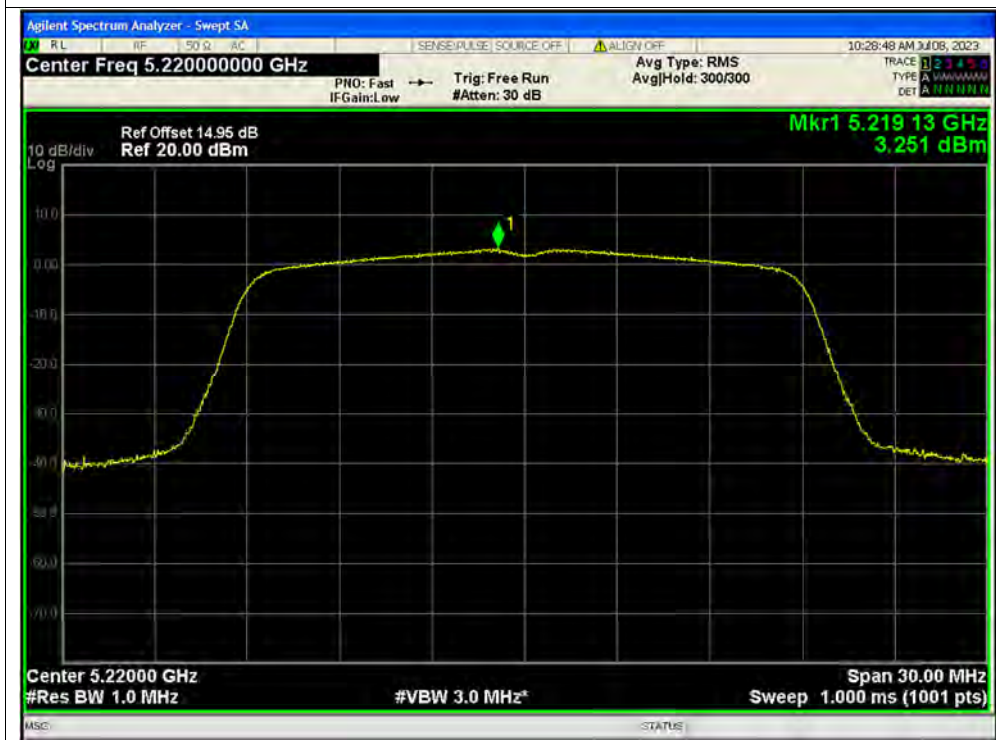
PSD NVNT n40 5795MHz Ant1



PSD NVNT ac20 5180MHz Ant1

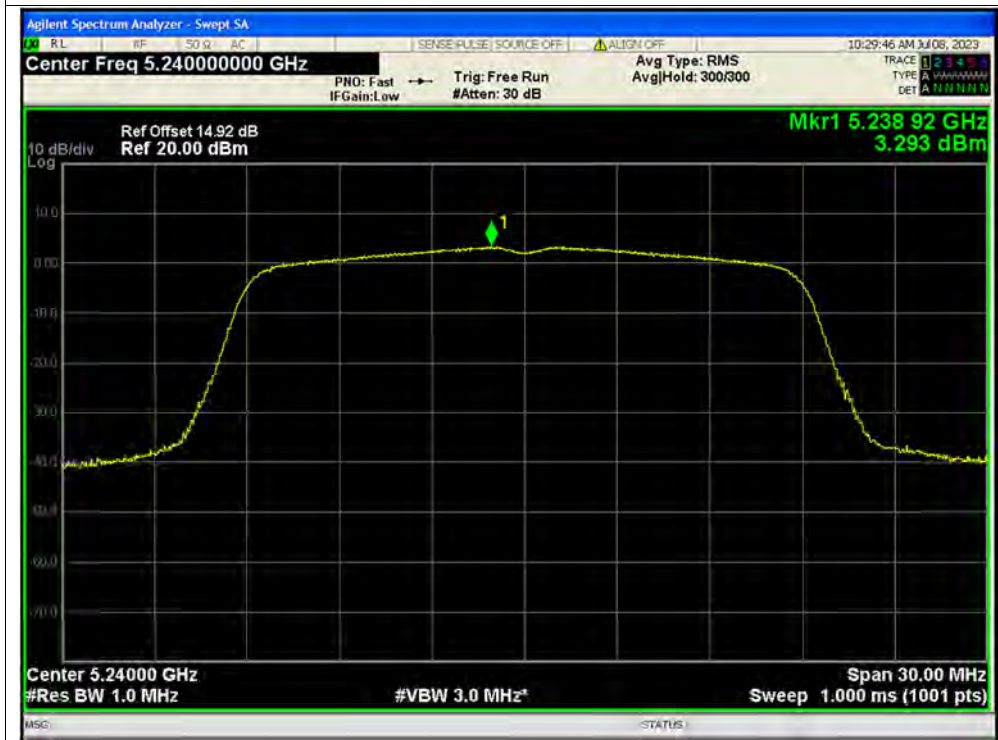


PSD NVNT ac20 5220MHz Ant1

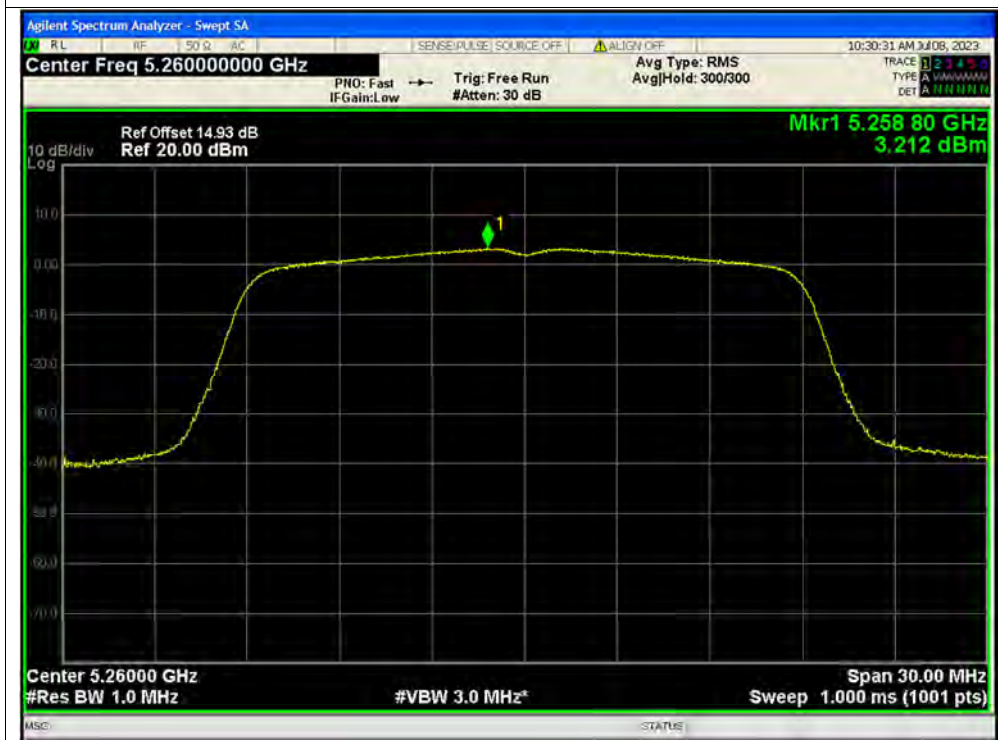




PSD NVNT ac20 5240MHz Ant1



PSD NVNT ac20 5260MHz Ant1

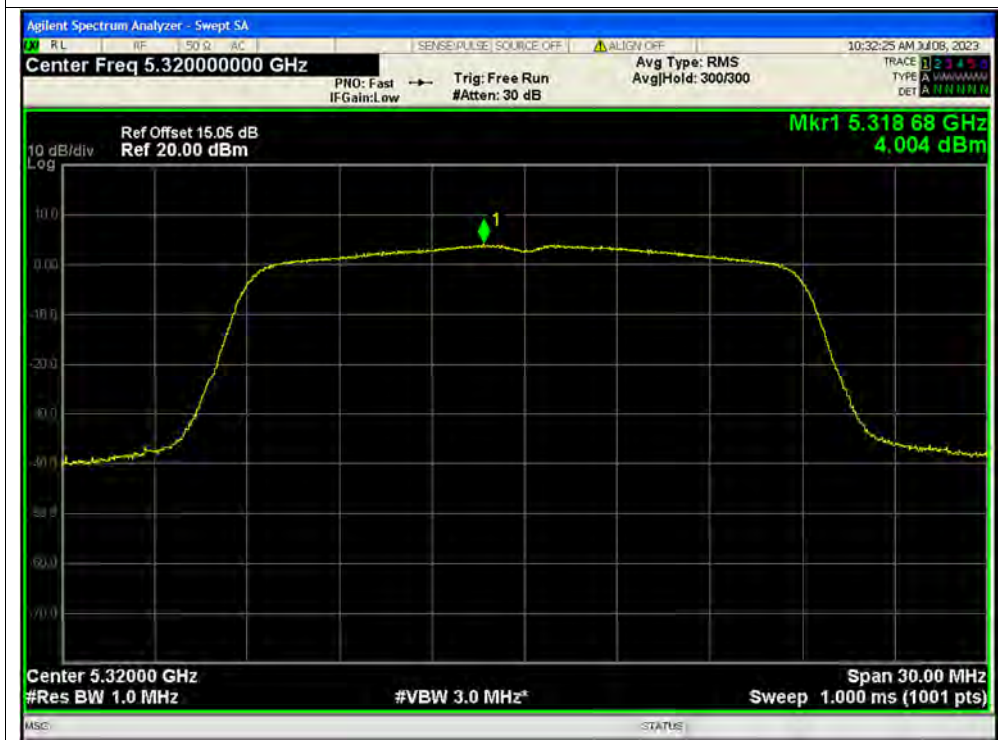




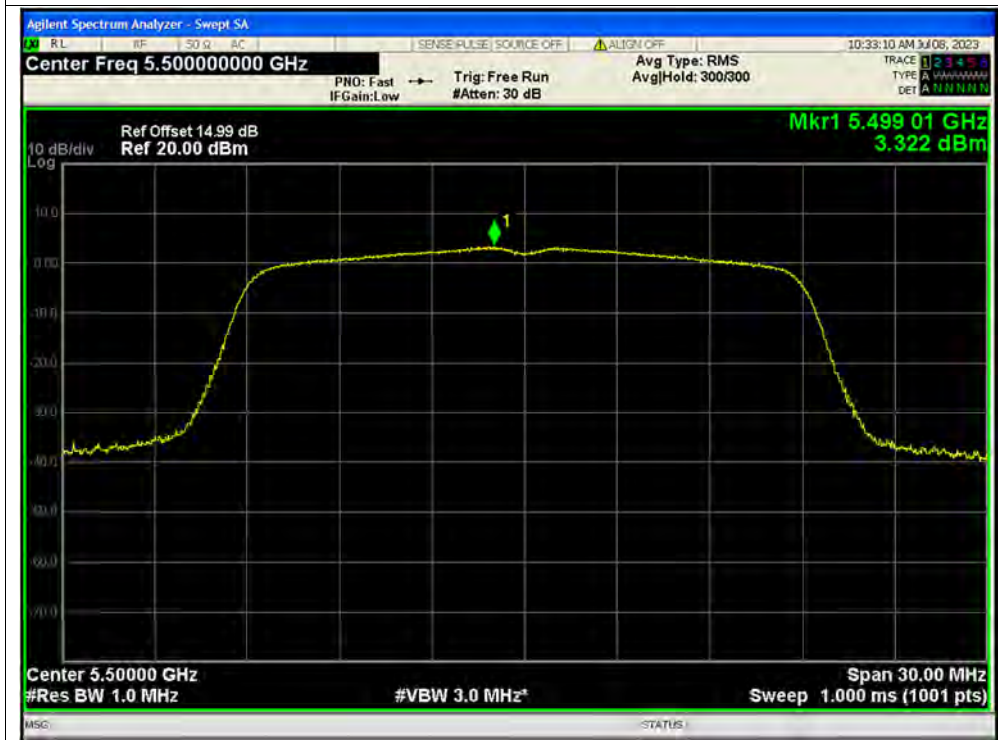
PSD NVNT ac20 5300MHz Ant1



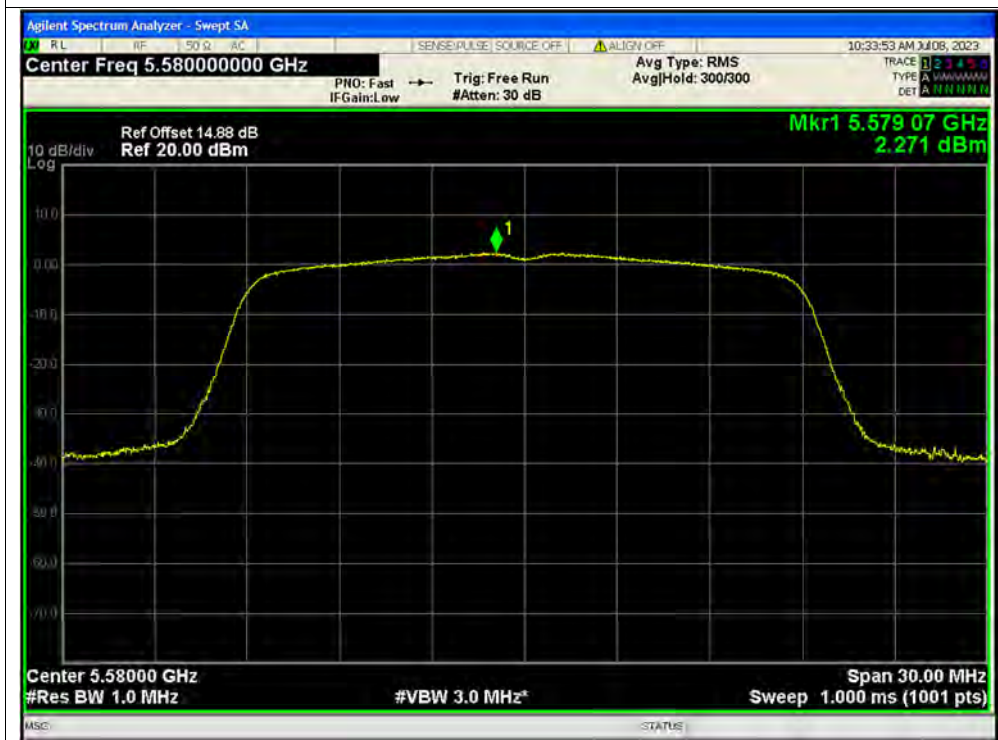
PSD NVNT ac20 5320MHz Ant1



PSD NVNT ac20 5500MHz Ant1



PSD NVNT ac20 5580MHz Ant1

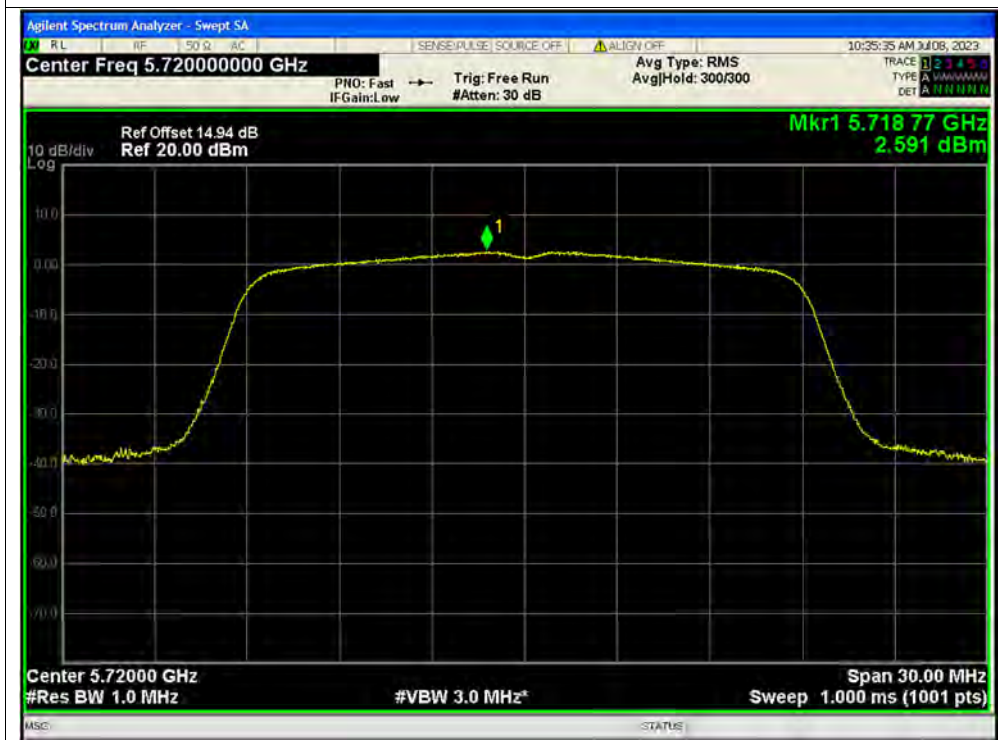




PSD NVNT ac20 5600MHz Ant1



PSD NVNT ac20 5720MHz Ant1



PSD NVNT ac20 5745MHz Ant1



PSD NVNT ac20 5785MHz Ant1



PSD NVNT ac20 5825MHz Ant1



PSD NVNT ac40 5190MHz Ant1





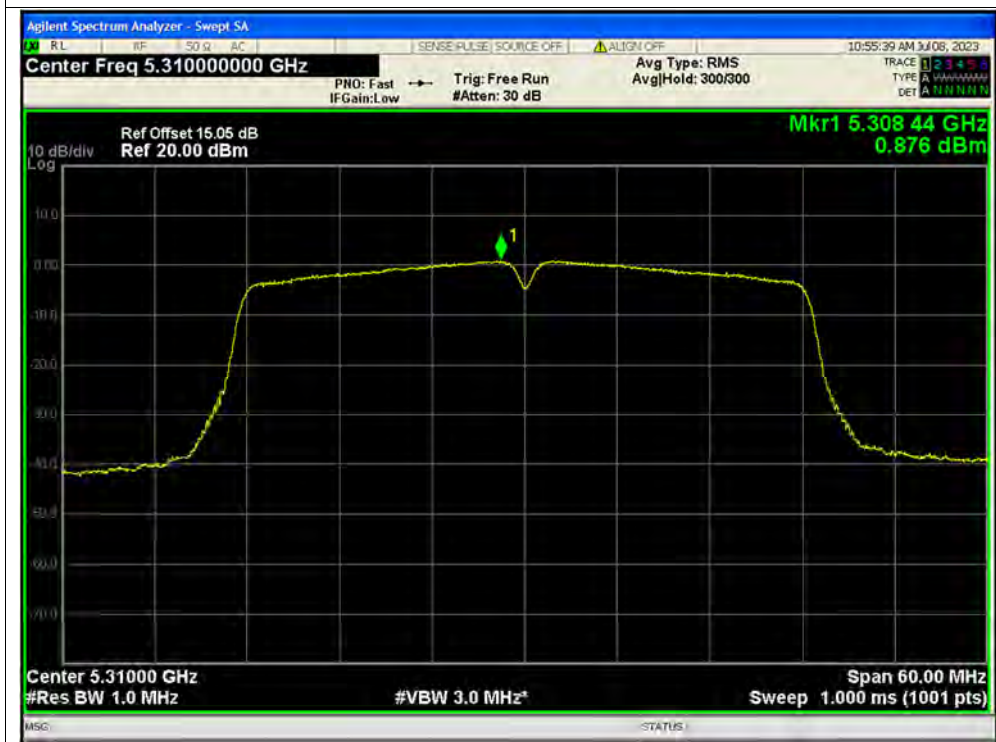
PSD NVNT ac40 5230MHz Ant1



PSD NVNT ac40 5270MHz Ant1



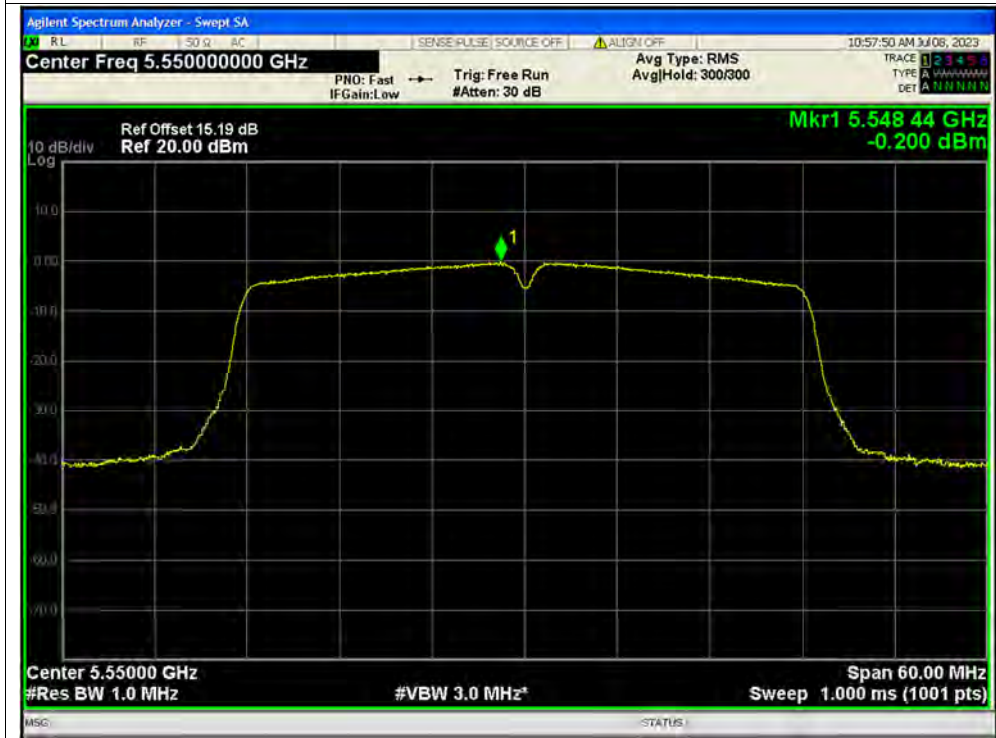
PSD NVNT ac40 5310MHz Ant1



PSD NVNT ac40 5510MHz Ant1



PSD NVNT ac40 5550MHz Ant1



PSD NVNT ac40 5630MHz Ant1



PSD NVNT ac40 5710MHz Ant1



PSD NVNT ac40 5755MHz Ant1



PSD NVNT ac40 5795MHz Ant1



PSD NVNT ac80 5210MHz Ant1



PSD NVNT ac80 5290MHz Ant1



PSD NVNT ac80 5530MHz Ant1



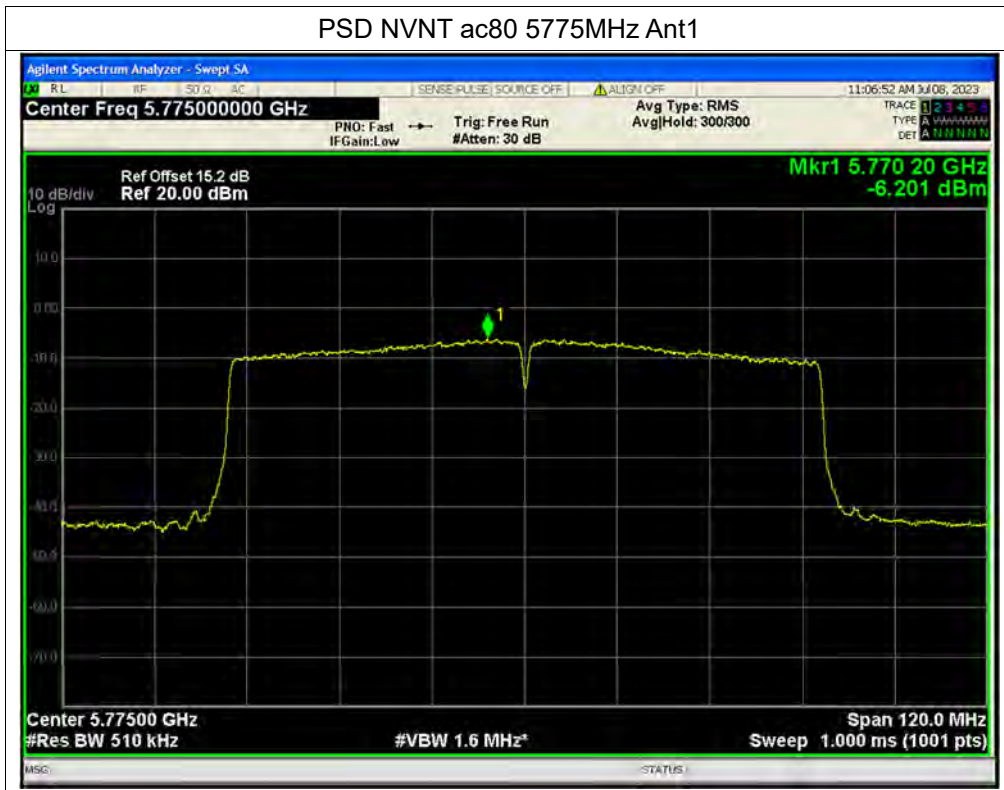


PSD NVNT ac80 5610MHz Ant1



PSD NVNT ac80 5690MHz Ant1





**A.5. Frequency Stability**

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
20C 3.5V	Carrier	5180	Ant1	5180.001	1000	0.19	25	Pass
20C 4.35V	Carrier	5180	Ant1	5180.001	1000	0.19	25	Pass
-10C 3.8V	Carrier	5180	Ant1	5180.001	1000	0.19	25	Pass
0C 3.8V	Carrier	5180	Ant1	5180.001	1000	0.19	25	Pass
10C 3.8V	Carrier	5180	Ant1	5180.001	1000	0.19	25	Pass
20C 3.8V	Carrier	5180	Ant1	5180.001	1000	0.19	25	Pass
30C 3.8V	Carrier	5180	Ant1	5180.001	1000	0.19	25	Pass
40C 3.8V	Carrier	5180	Ant1	5180.001	1000	0.19	25	Pass
50C 3.8V	Carrier	5180	Ant1	5180.001	1000	0.19	25	Pass
55C 3.8V	Carrier	5180	Ant1	5180.001	1000	0.19	25	Pass
20C 3.5V	Carrier	5260	Ant1	5260.001	1000	0.19	25	Pass
20C 4.35V	Carrier	5260	Ant1	5260.001	1000	0.19	25	Pass
-10C 3.8V	Carrier	5260	Ant1	5260.001	1000	0.19	25	Pass
0C 3.8V	Carrier	5260	Ant1	5260.001	1000	0.19	25	Pass
10C 3.8V	Carrier	5260	Ant1	5260.001	1000	0.19	25	Pass
20C 3.8V	Carrier	5260	Ant1	5260.001	1000	0.19	25	Pass
30C 3.8V	Carrier	5260	Ant1	5260.001	1000	0.19	25	Pass
40C 3.8V	Carrier	5260	Ant1	5260.001	1000	0.19	25	Pass
50C 3.8V	Carrier	5260	Ant1	5260.002	2000	0.38	25	Pass
55C 3.8V	Carrier	5260	Ant1	5260.001	1000	0.19	25	Pass
20C 3.5V	Carrier	5500	Ant1	5500.001	1000	0.18	25	Pass
20C 4.35V	Carrier	5500	Ant1	5500.001	1000	0.18	25	Pass
-10C 4V	Carrier	5500	Ant1	5500.001	1000	0.18	25	Pass
0C 4V	Carrier	5500	Ant1	5500.001	1000	0.18	25	Pass
10C 4V	Carrier	5500	Ant1	5500.001	1000	0.18	25	Pass
20C 4V	Carrier	5500	Ant1	5500.001	1000	0.18	25	Pass
30C 4V	Carrier	5500	Ant1	5500.001	1000	0.18	25	Pass
40C 4V	Carrier	5500	Ant1	5500.001	1000	0.18	25	Pass
50C 4V	Carrier	5500	Ant1	5500.001	1000	0.18	25	Pass
55C 4V	Carrier	5500	Ant1	5500.001	1000	0.18	25	Pass
20C 3.5V	Carrier	5745	Ant1	5745.002	2000	0.35	25	Pass
20C 4.35V	Carrier	5745	Ant1	5745.002	2000	0.35	25	Pass
-10C 4V	Carrier	5745	Ant1	5745.002	2000	0.35	25	Pass
0C 4V	Carrier	5745	Ant1	5745.002	2000	0.35	25	Pass



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10C 4V	Carrier	5745	Ant1	5745.002	2000	0.35	25	Pass
20C 4V	Carrier	5745	Ant1	5745.002	2000	0.35	25	Pass
30C 4V	Carrier	5745	Ant1	5745.002	2000	0.35	25	Pass
40C 4V	Carrier	5745	Ant1	5745.002	2000	0.35	25	Pass
50C 4V	Carrier	5745	Ant1	5745.002	2000	0.35	25	Pass
55C 4V	Carrier	5745	Ant1	5745.002	2000	0.35	25	Pass



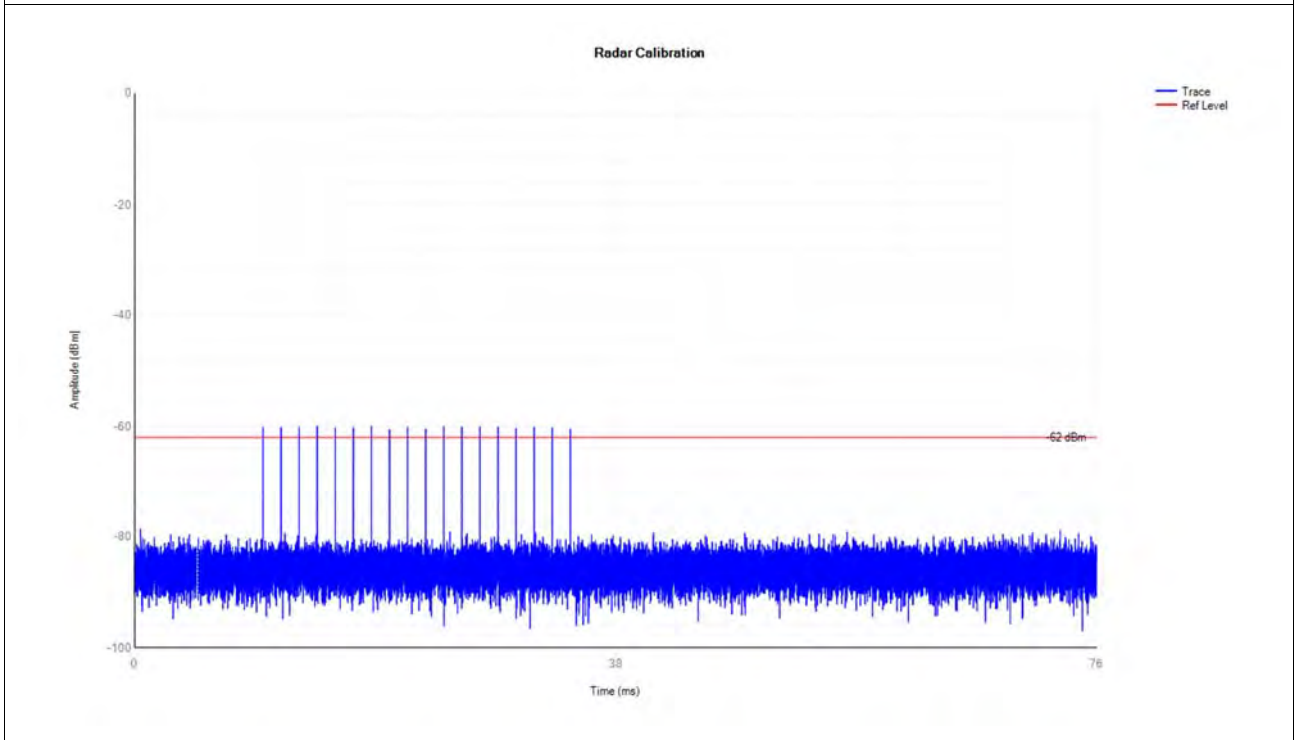
A.6. Dynamic Frequency Selection

Detection Thresholds

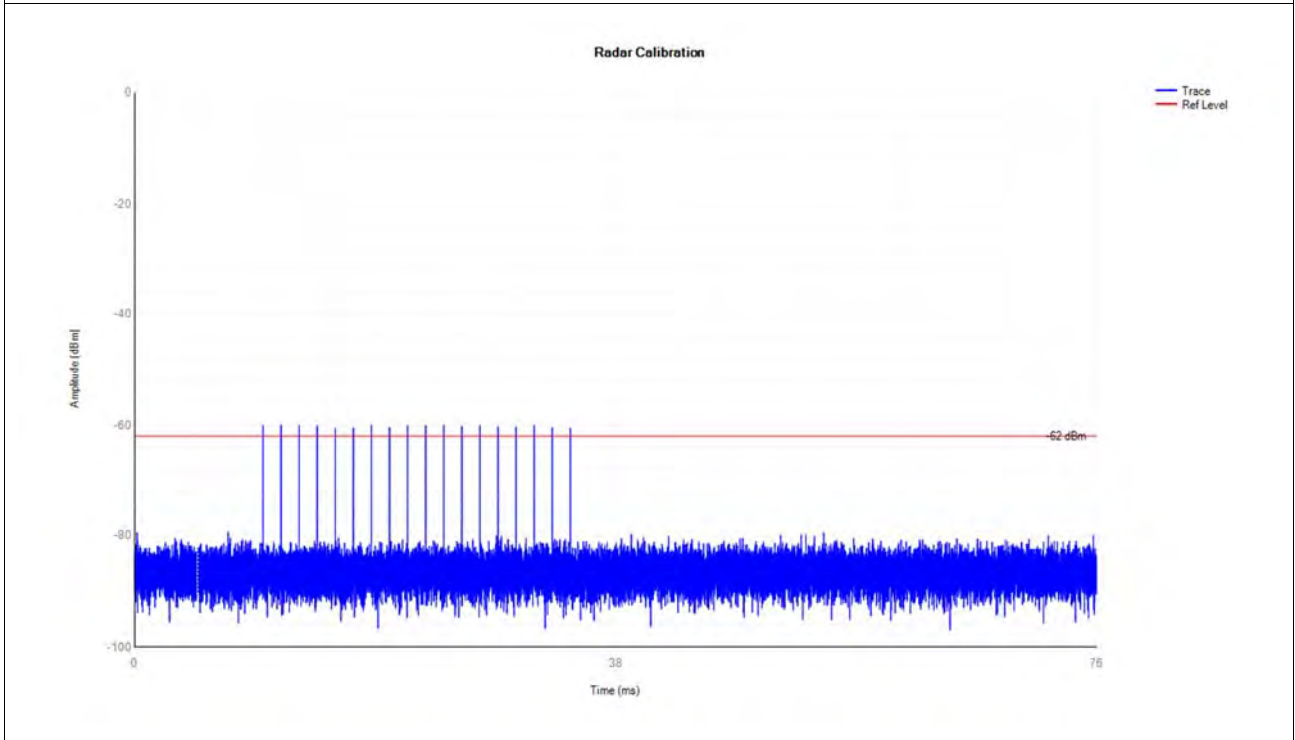
Mode	Frequency (MHz)	Type	Result	Verdict
a	5320	DFS_FCC_T0	See test Graph	Pass
a	5500	DFS_FCC_T0	See test Graph	Pass
ac80	5290	DFS_FCC_T0	See test Graph	Pass
ac80	5530	DFS_FCC_T0	See test Graph	Pass

Test Graphs

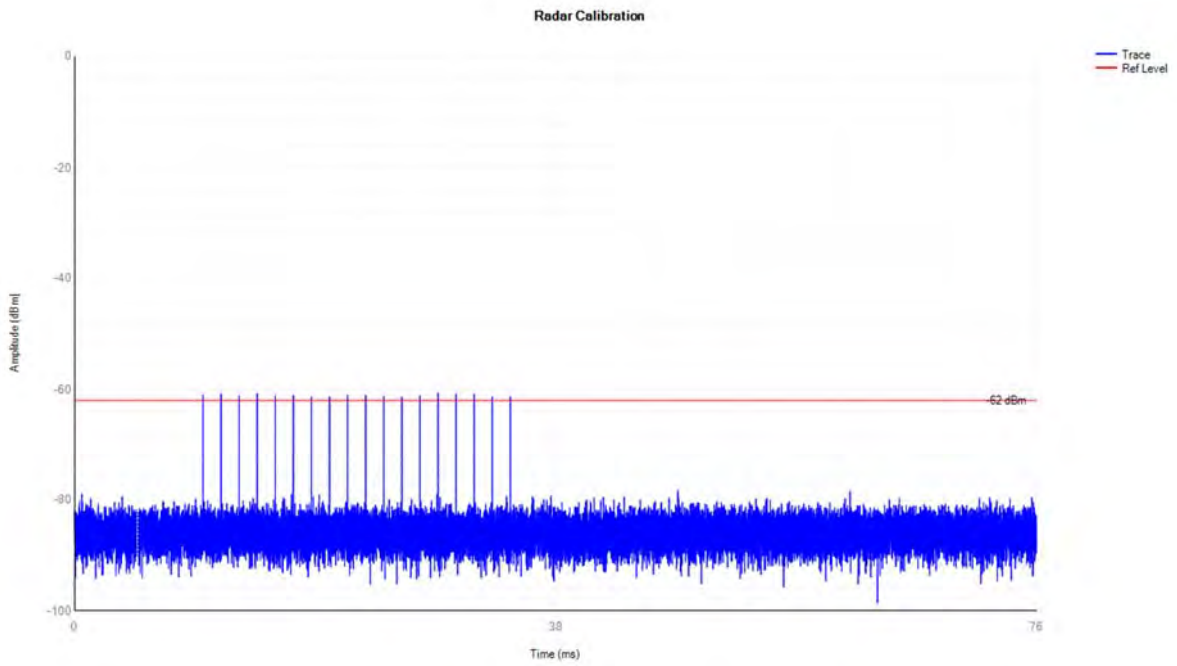
5320MHz DFS_FCC_T0



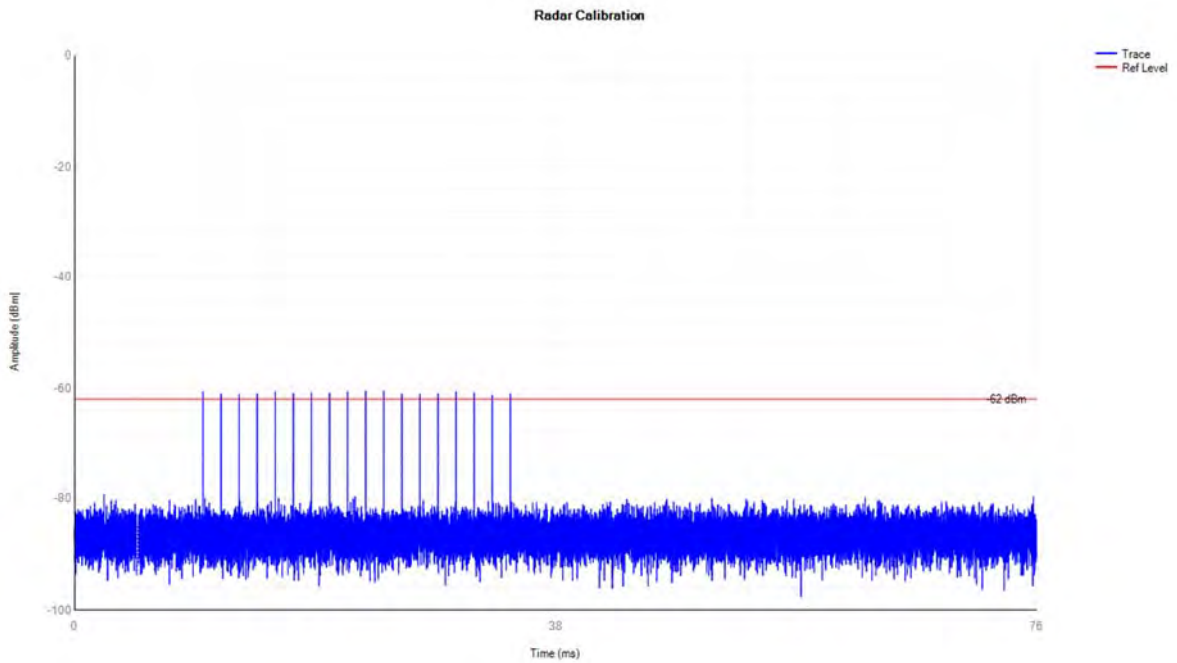
5500MHz DFS_FCC_T0



5290MHz DFS_FCC_T0



5530MHz DFS_FCC_T0



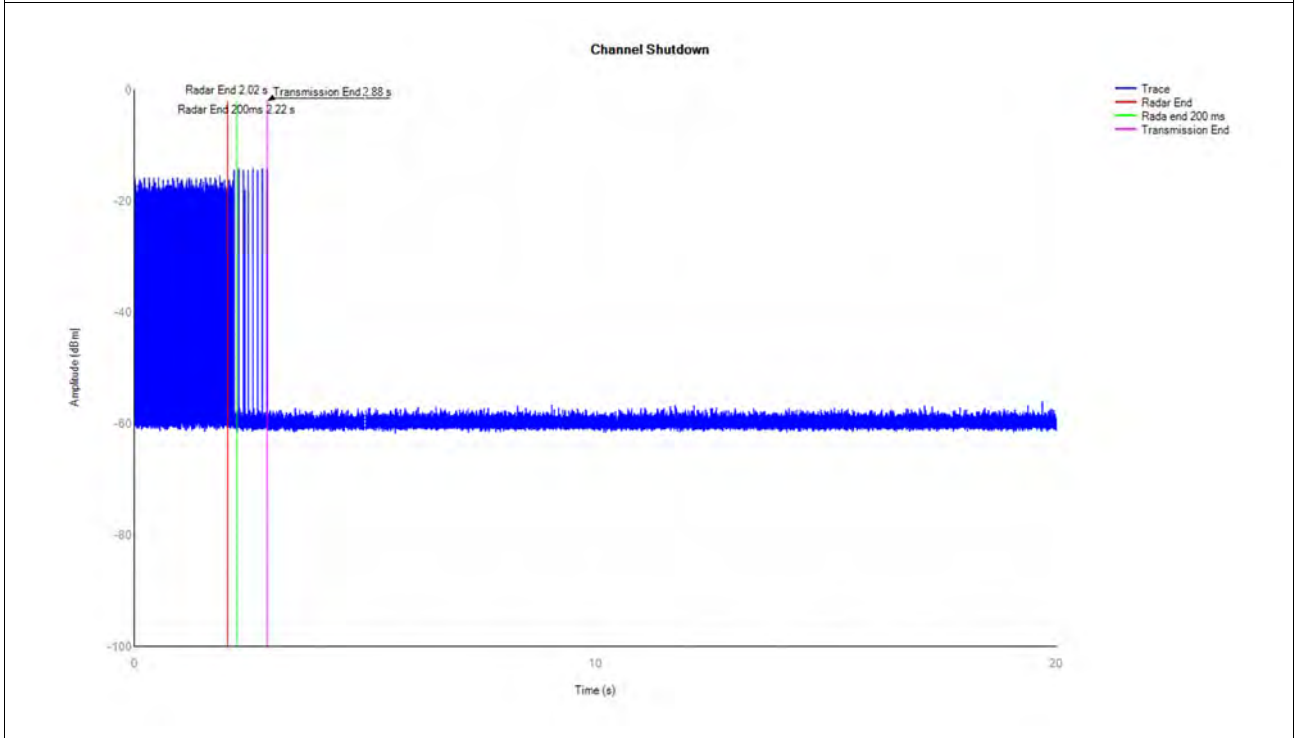


Channel Move Time and Channel Closing Transmission Time

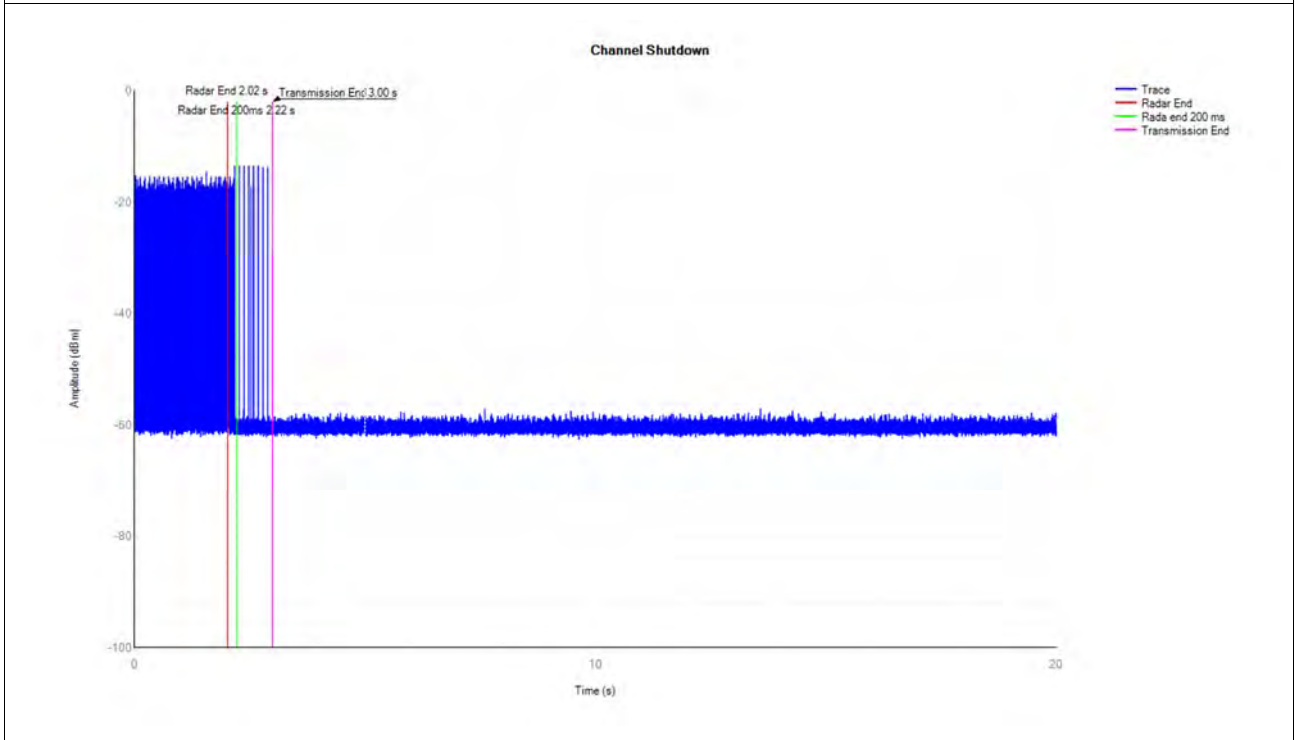
Mode	Frequency (MHz)	Channel Move Time (s)	Limit Channel Move Time (s)	Close Transmission Time (s)	Limit Close Transmission Time (s)	Close Transmission Time after 200ms(s)	Limit Close Transmission Time after 200ms (s)	Verdict
a	5320	0.855	10	0.107	0.26	0.016	0.06	Pass
a	5500	0.973	10	0.128	0.26	0.021	0.06	Pass
ac80	5290	0.796	10	0.049	0.26	0.013	0.06	Pass
ac80	5530	1.008	10	0.099	0.26	0.031	0.06	Pass

Test Graphs

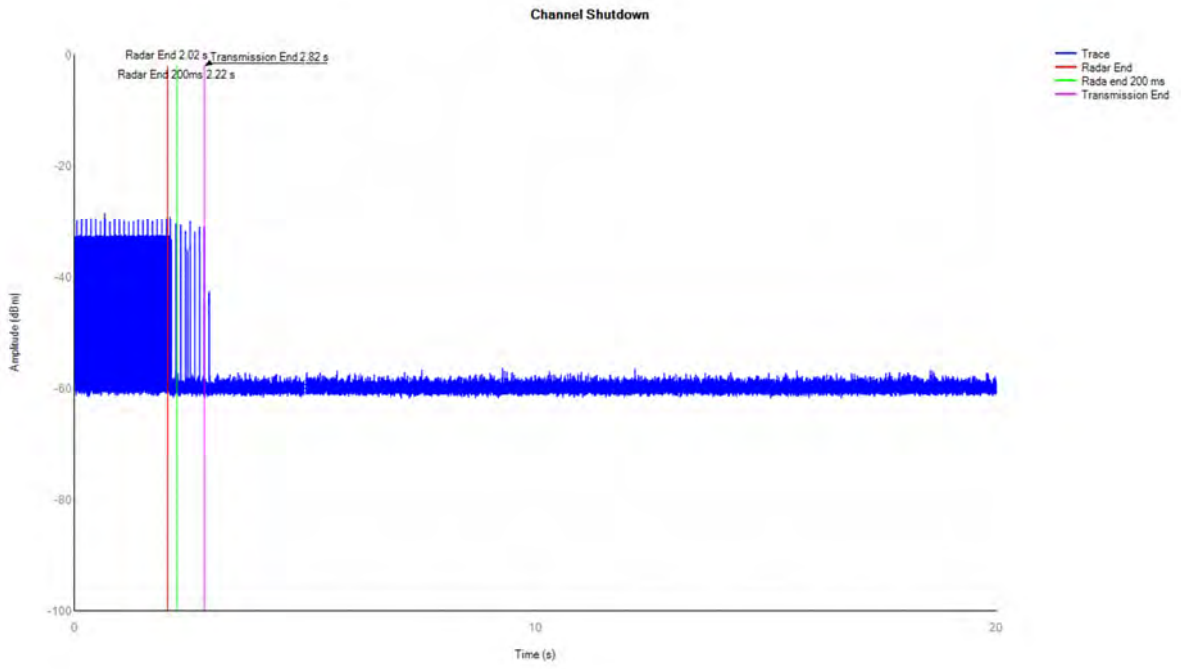
11AC20SISO_5320



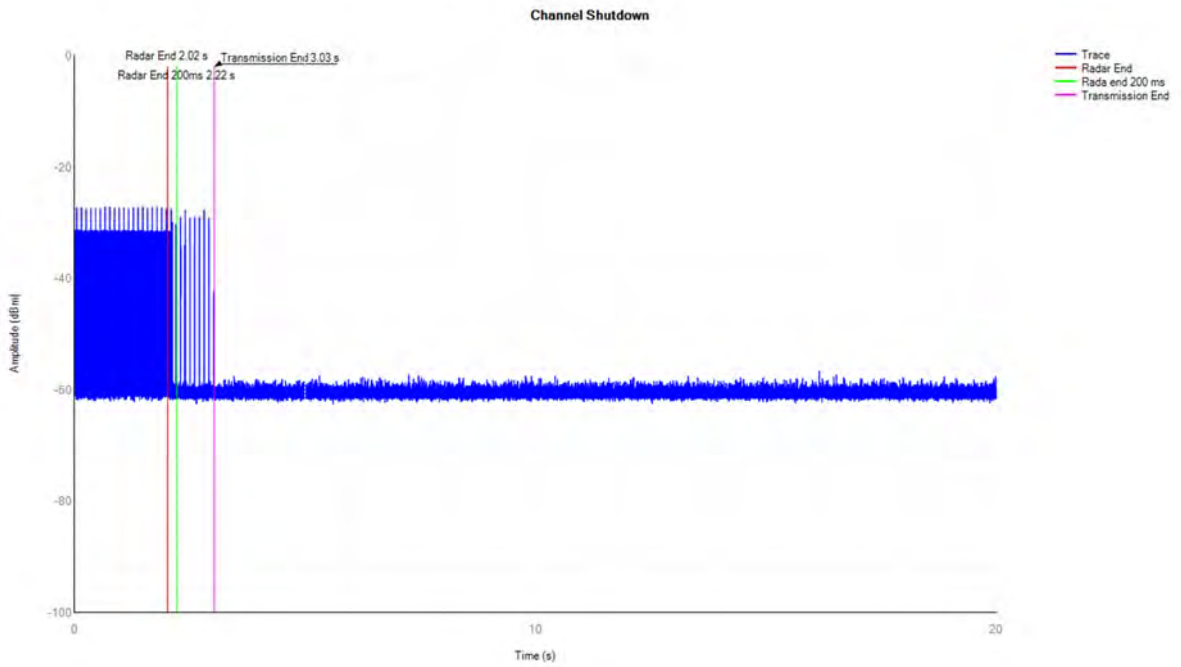
11AC20SISO_5500



11AC80SISO_5290



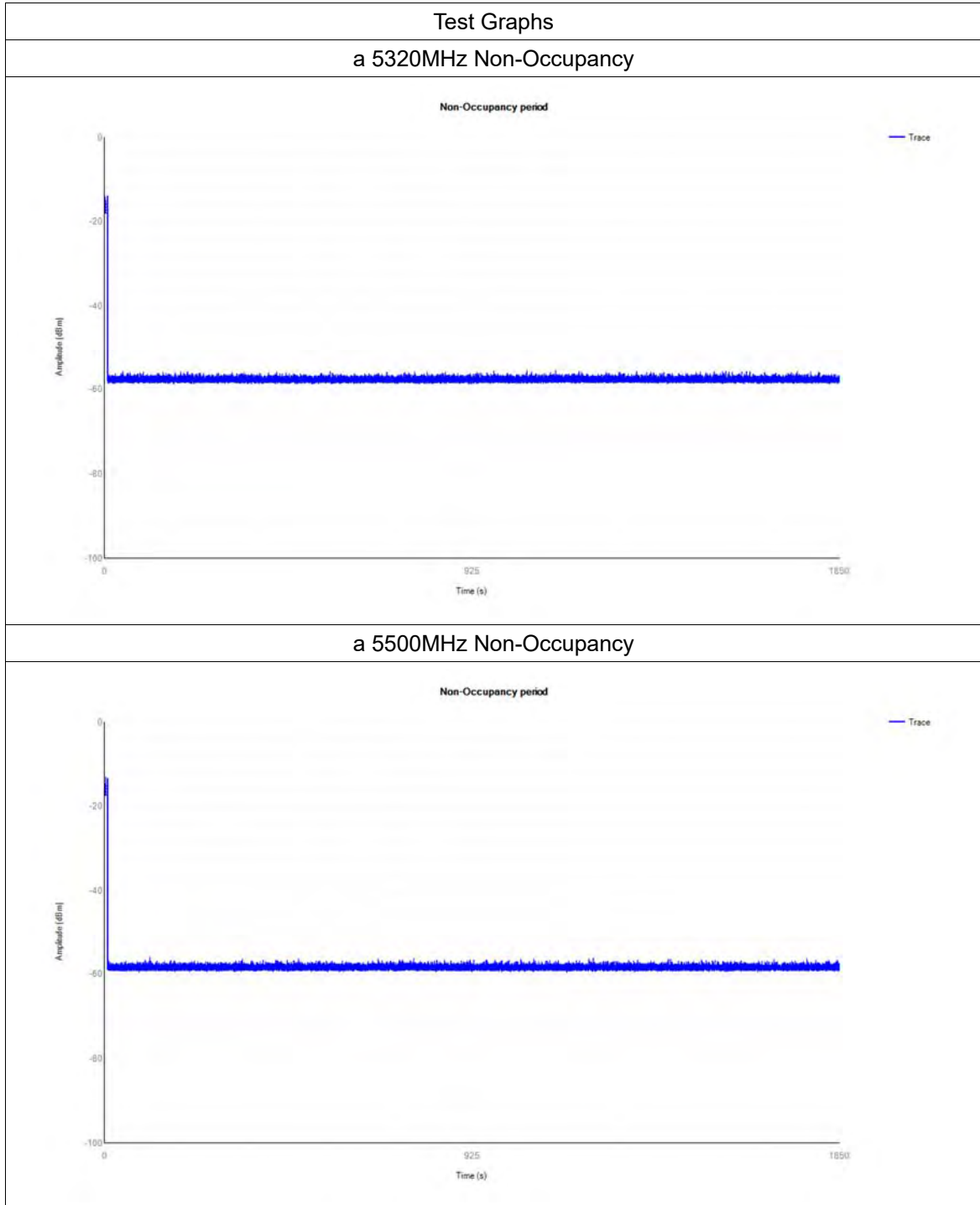
11AC80SISO_5530





Non-Occupancy Period

Mode	Frequency (MHz)	Result	Verdict
11AC20SISO	5320	See test Graph	Pass
11AC20SISO	5500	See test Graph	Pass





A.7. 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 +Earphone + WIFI TX

Test voltage: AC 120V/60Hz

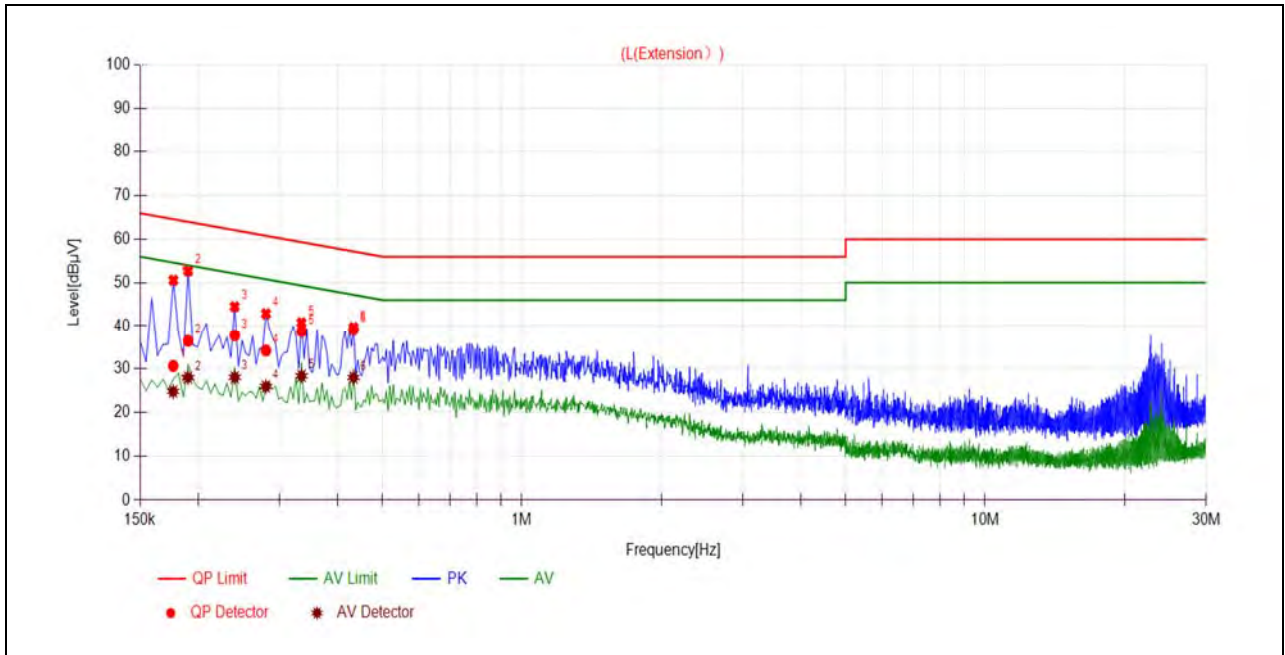
The measurement results are obtained as below:

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

U_R : Receiver Reading

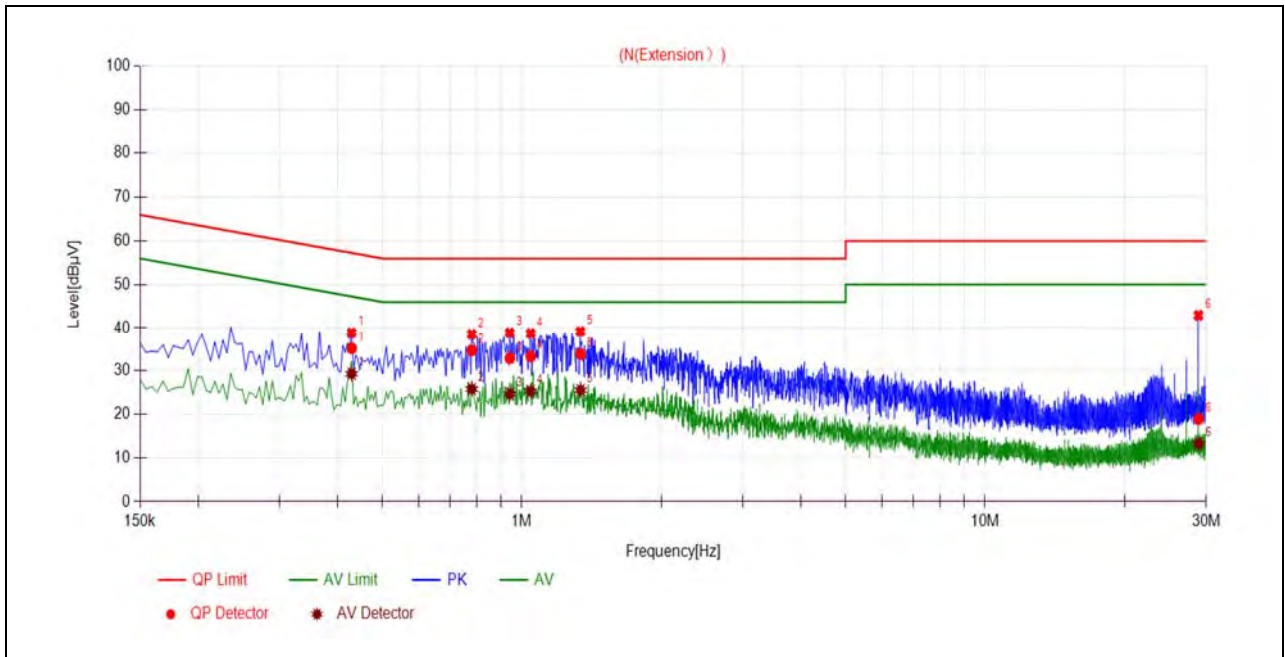
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1768	30.68	24.81	64.63	54.63	Line	PASS
2	0.1904	36.48	27.98	64.02	54.02		PASS
3	0.2401	37.73	28.05	62.09	52.09		PASS
4	0.2803	34.23	25.95	60.81	50.81		PASS
5	0.3347	38.70	28.39	59.33	49.33		PASS
6	0.4333	39.11	28.01	57.19	47.19		PASS



(N Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.4292	35.20	29.29	57.27	47.27	Neutral	PASS
2	0.7801	34.73	25.78	56.00	46.00		PASS
3	0.9426	32.91	24.64	56.00	46.00		PASS
4	1.0451	33.34	25.32	56.00	46.00		PASS
5	1.3393	33.86	25.54	56.00	46.00		PASS
6	28.8856	18.89	13.23	60.00	50.00		PASS

**A.8. 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

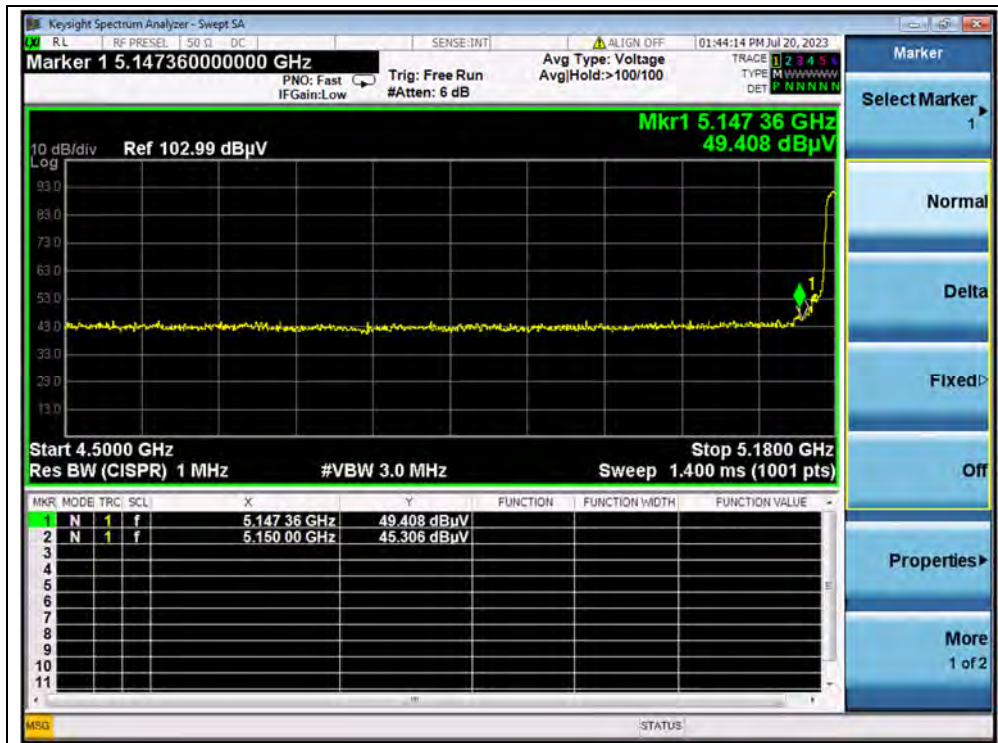
A_{Factor} : Antenna Factor at 3m

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

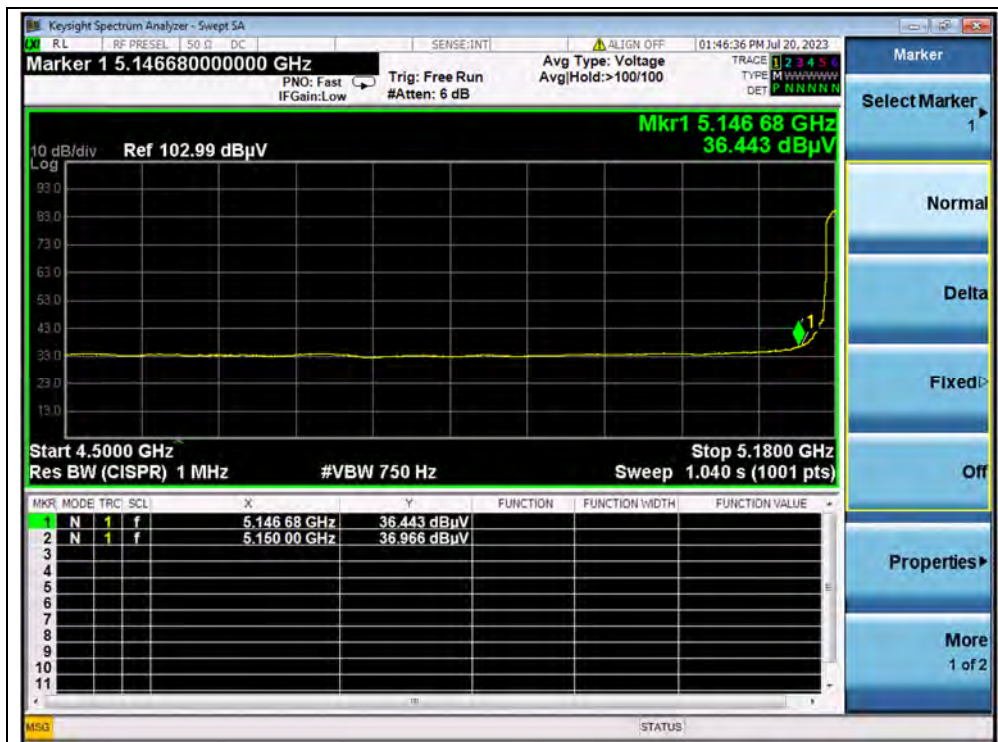
Note 2 All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.

802.11a Mode

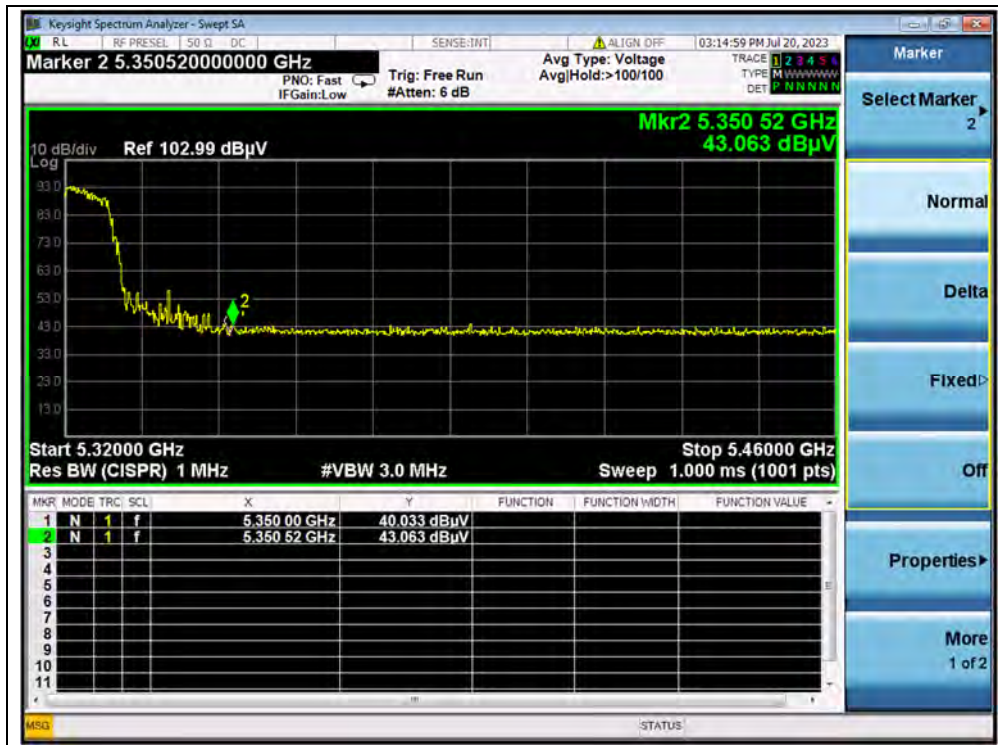
Channel	Frequency (MHz)	Detector	Receiver Reading	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV	U_R (dB μ V)					
36	5147.36	PK	49.41	-19.54	32.20	62.07	74	PASS
36	5150.00	AV	36.97	-19.54	32.20	49.63	54	PASS
64	5350.52	PK	43.06	-18.80	32.20	56.46	74	PASS
64	5350.66	AV	34.58	-18.80	32.20	47.98	54	PASS
100	5198.50	PK	45.37	-19.20	32.20	58.37	68.23	PASS
100	5469.00	AV	34.27	-19.20	32.20	47.27	54	PASS
144	5729.10	PK	47.72	-19.20	32.20	60.72	68.23	PASS
149	5723.29	PK	50.23	-19.01	32.20	63.42	118.33	PASS
165	5850.28	PK	47.10	-19.01	32.20	60.29	121.59	PASS



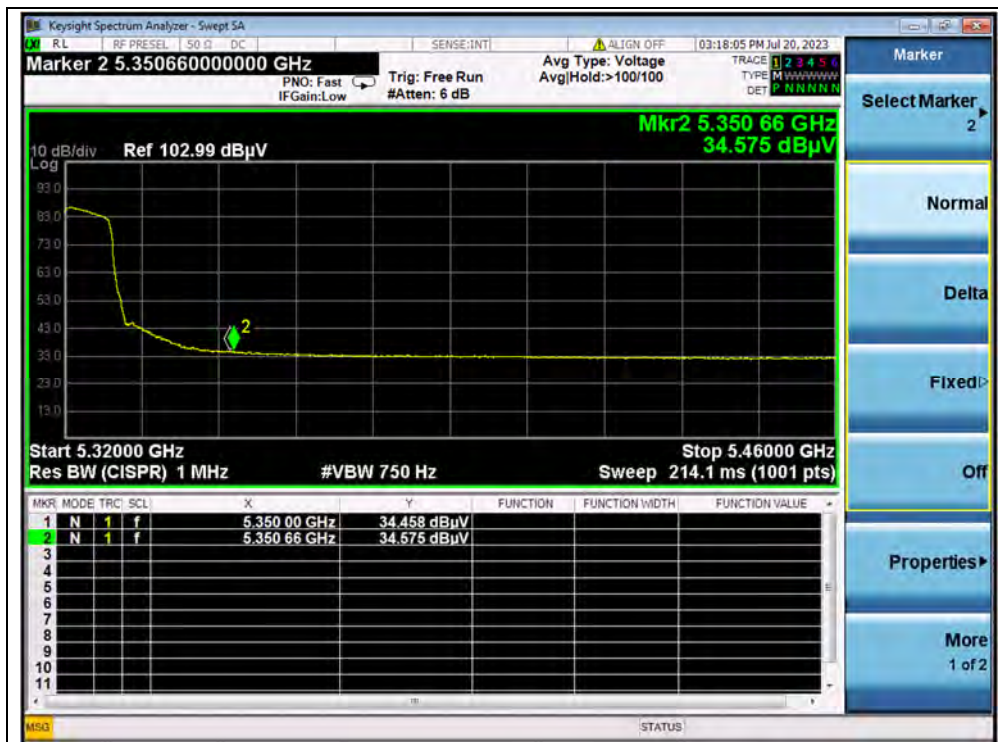
(PEAK, Channel 36, 802.11a)



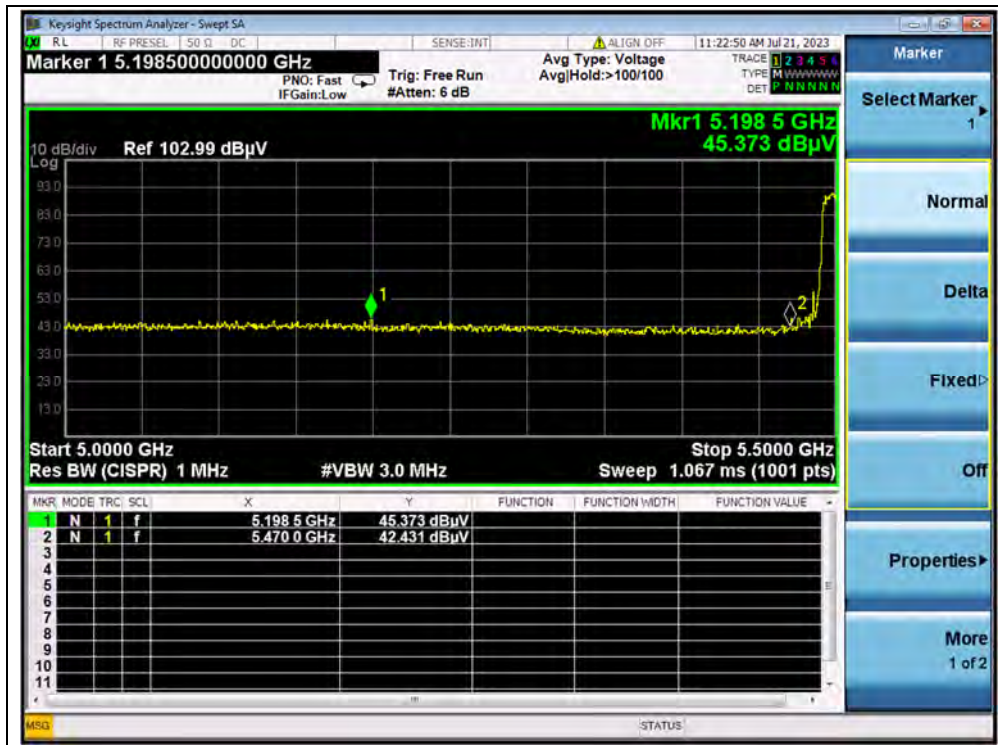
(AVERAGE, Channel 36, 802.11a)



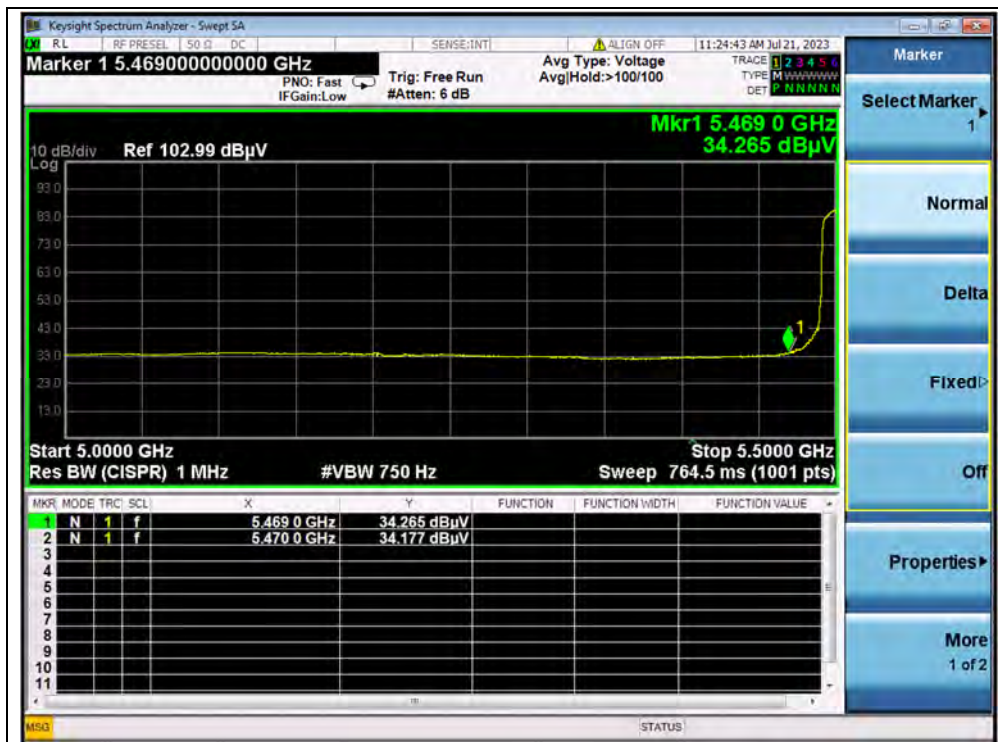
(PEAK, Channel 64, 802.11a)



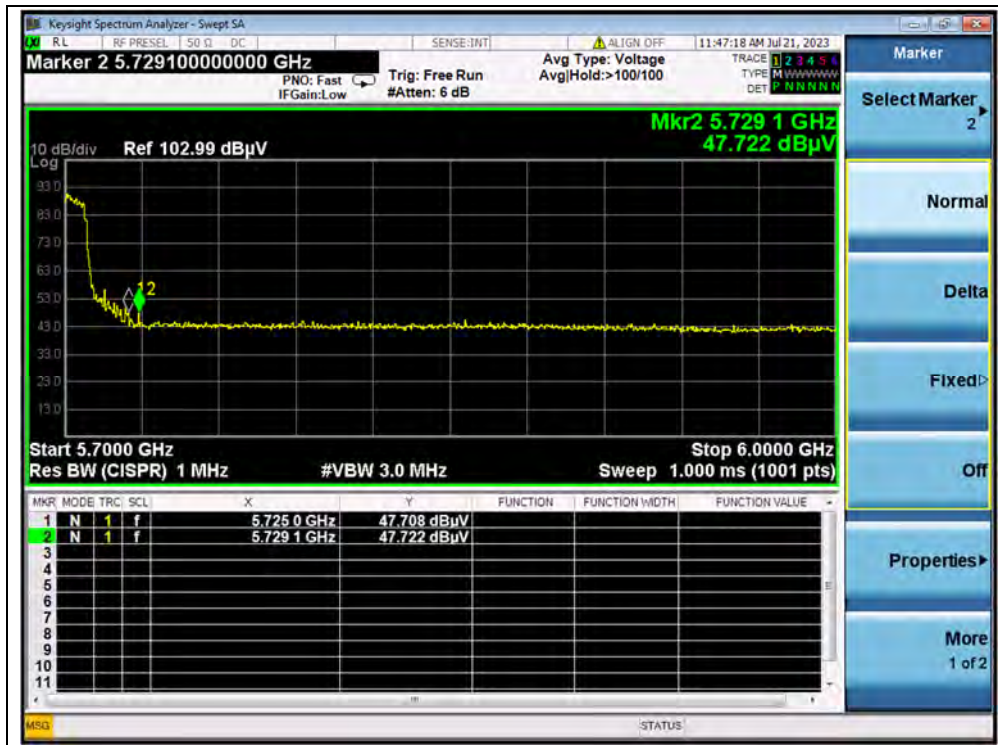
(AVERAGE, Channel 64, 802.11a)



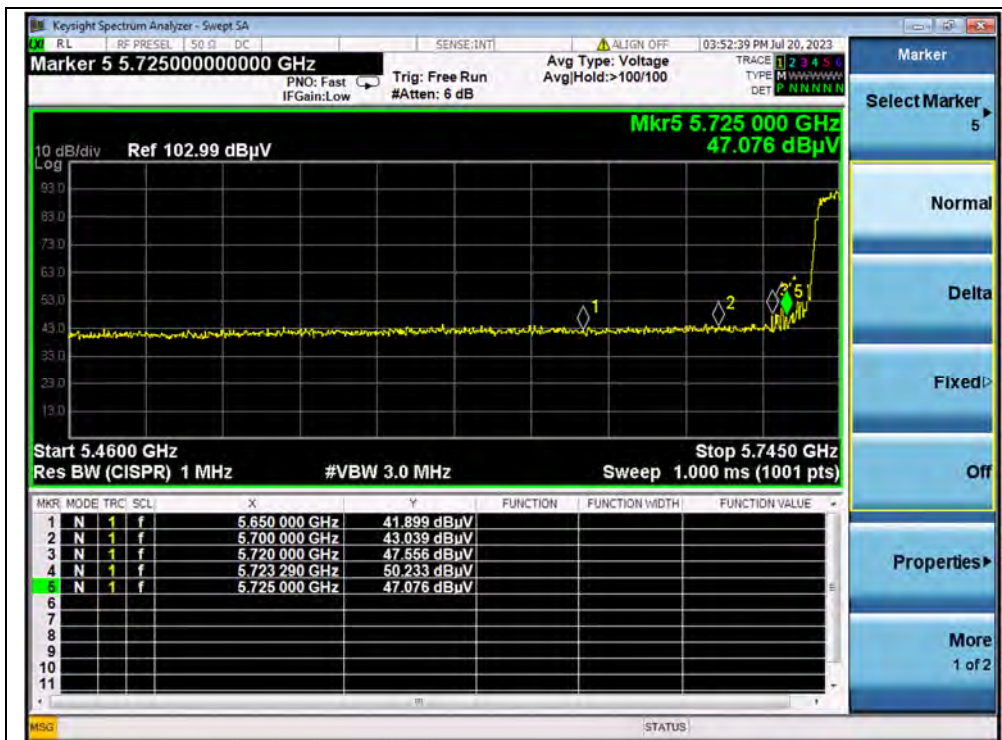
(PEAK, Channel 100, 802.11a)



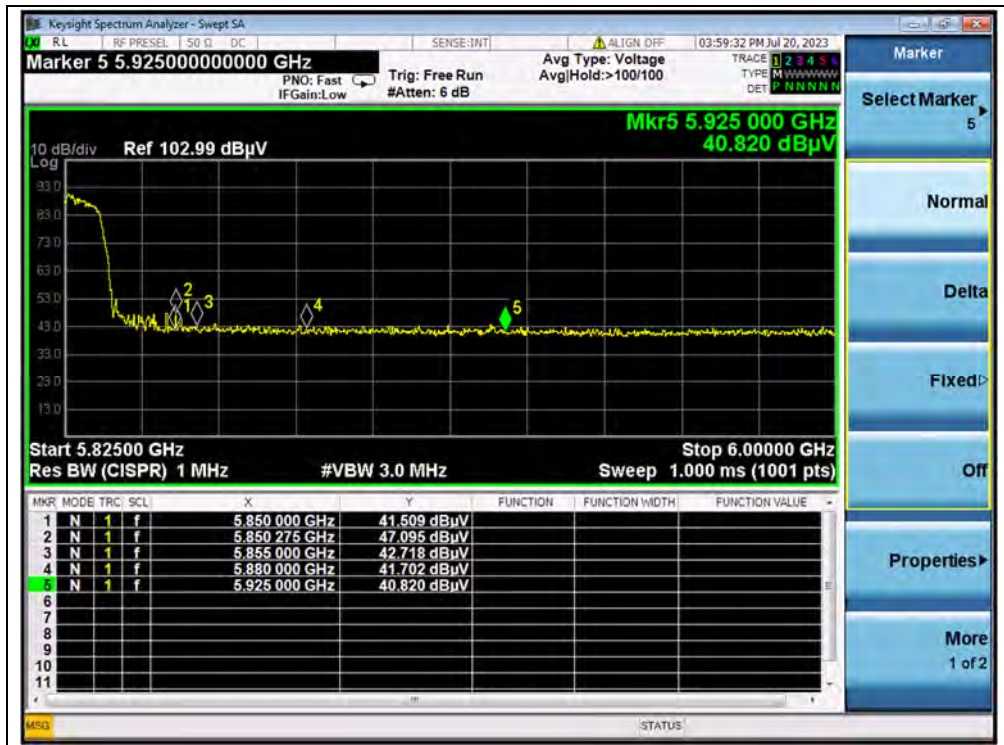
(AVERAGE, Channel 100, 802.11a)



(PEAK, Channel 144, 802.11a)



(PEAK, Channel 149, 802.11a)

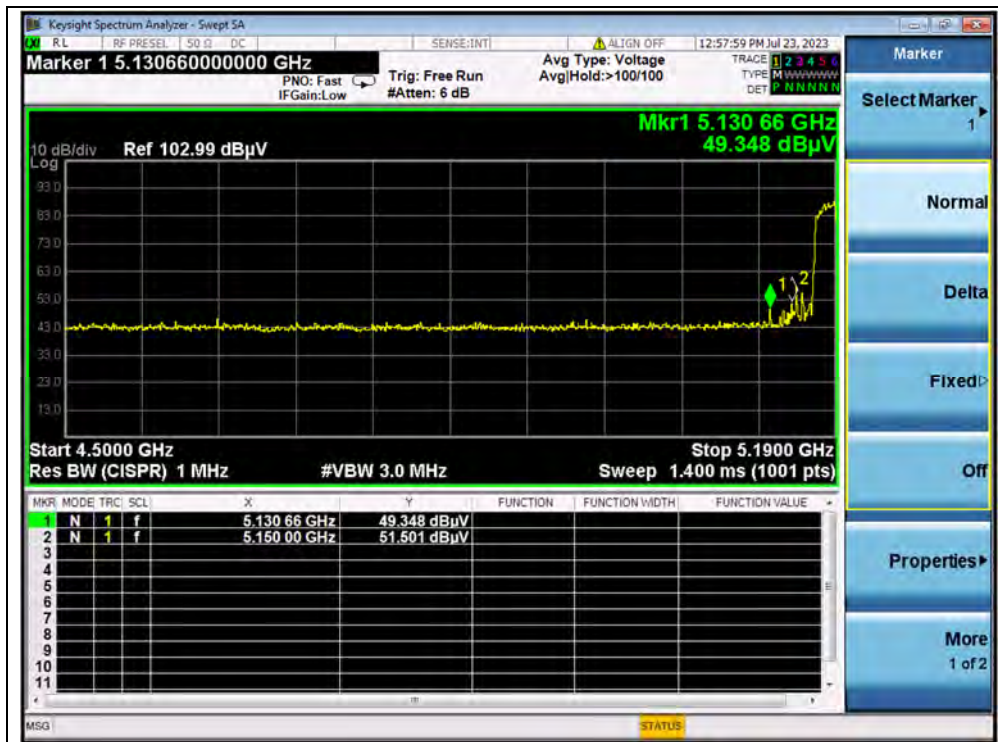


(PEAK, Channel 165, 802.11a)

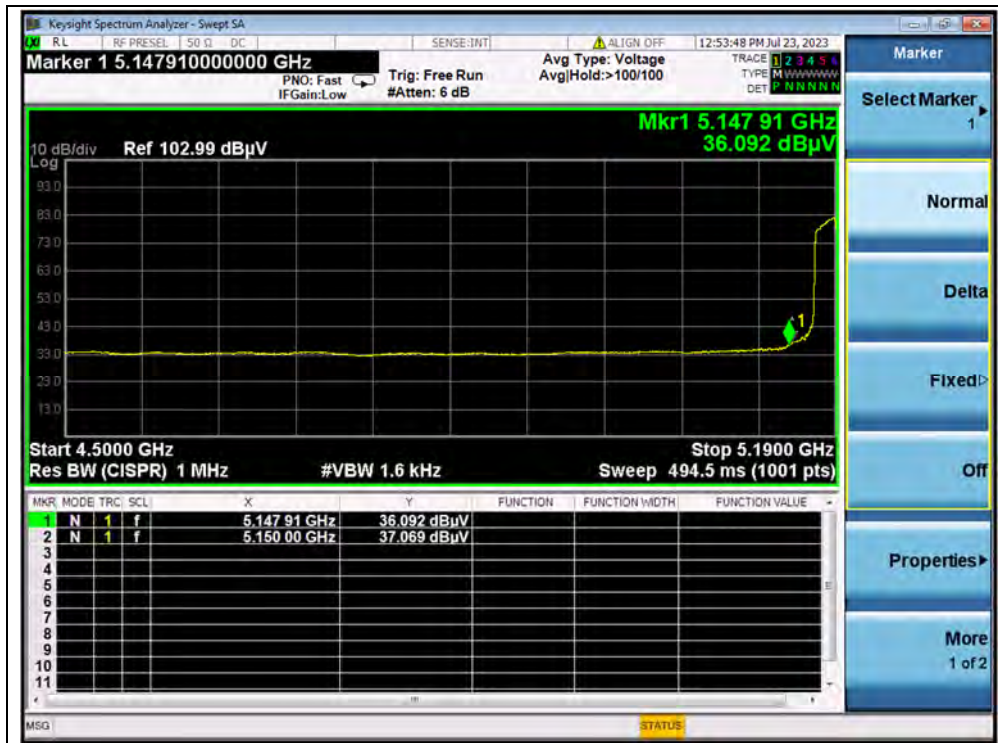


802.11n (HT40) Mode

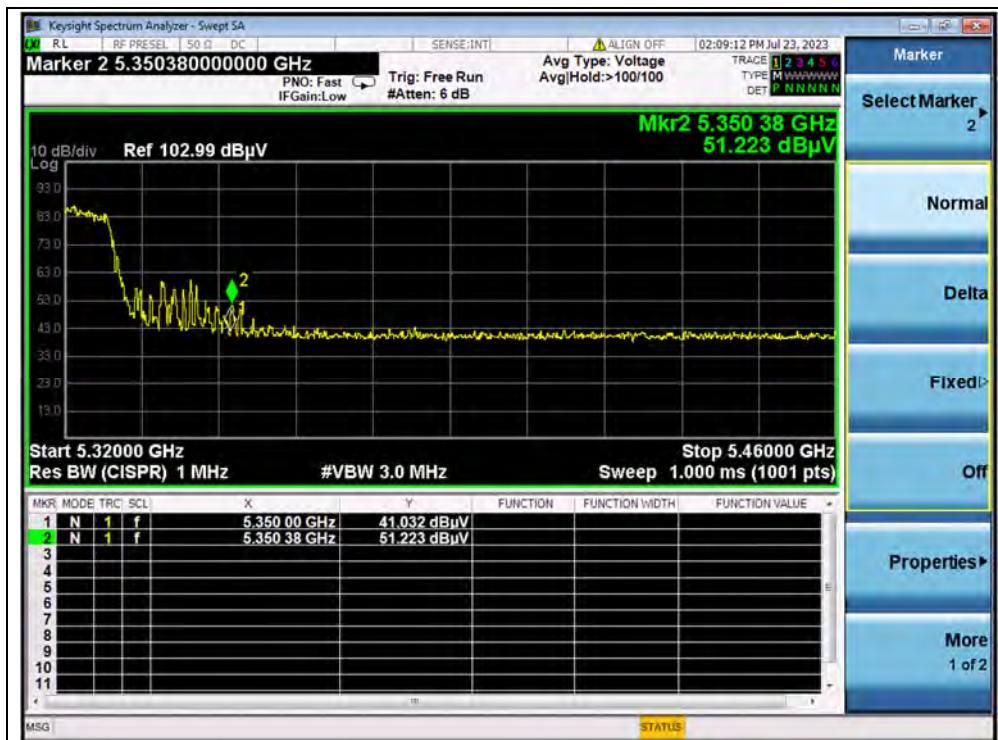
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
38	5150.00	PK	51.50	-19.54	32.20	64.16	74	PASS
38	5150.00	AV	37.07	-19.54	32.20	49.73	54	PASS
62	5350.38	PK	51.22	-18.80	32.20	64.62	74	PASS
62	5350.00	AV	35.96	-18.80	32.20	49.36	54	PASS
102	5467.67	PK	48.91	-19.20	32.20	61.91	68.23	PASS
102	5460.00	AV	35.52	-19.20	32.20	48.52	54	PASS
142	5738.97	PK	48.49	-19.20	32.20	61.49	68.23	PASS
151	5721.96	PK	59.82	-19.01	32.20	73.01	115.30	PASS
159	5850.00	PK	42.90	-19.01	32.20	56.09	122.23	PASS



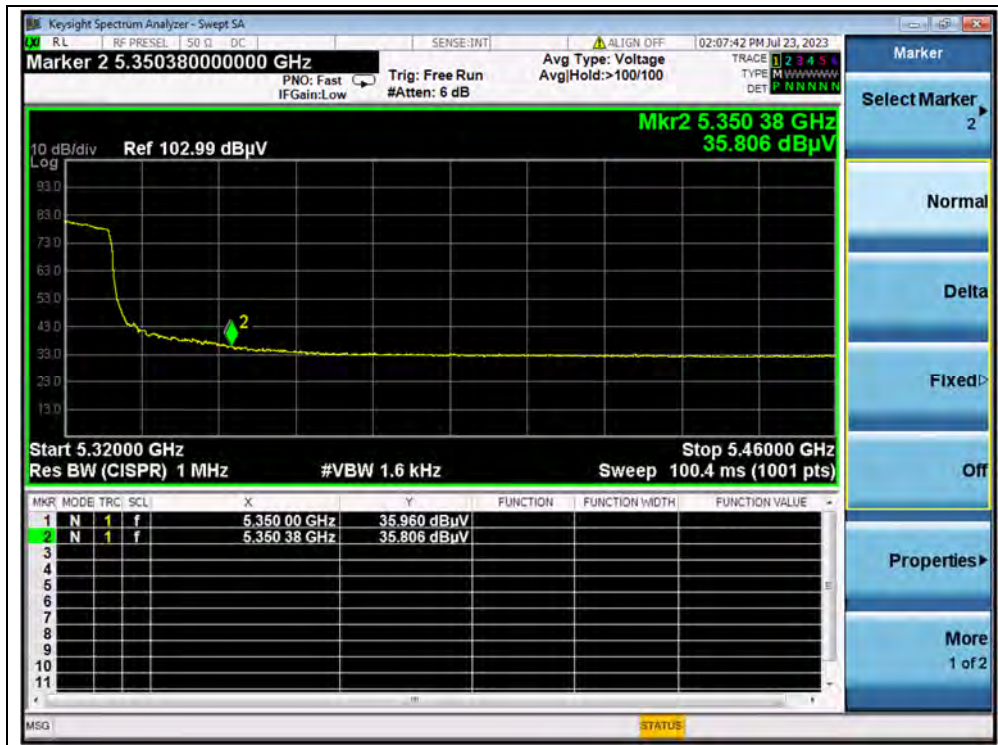
(PEAK, Channel 38, 802.11n (HT40))



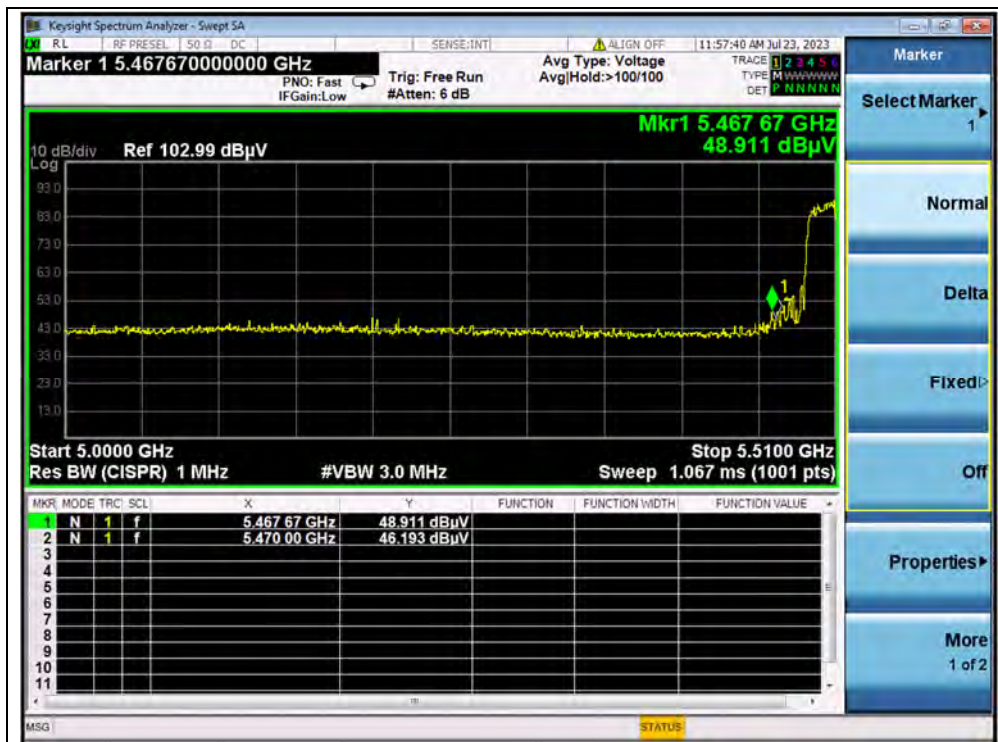
(AVERAGE, Channel 38, 802.11n (HT40))



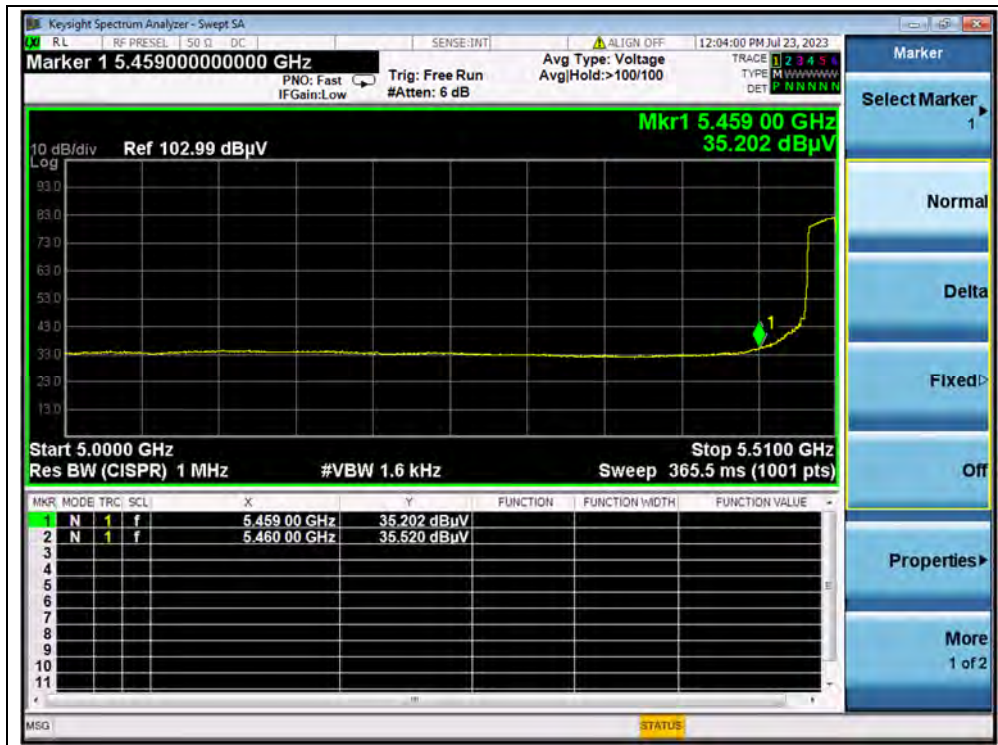
(PEAK, Channel 62, 802.11n (HT40))



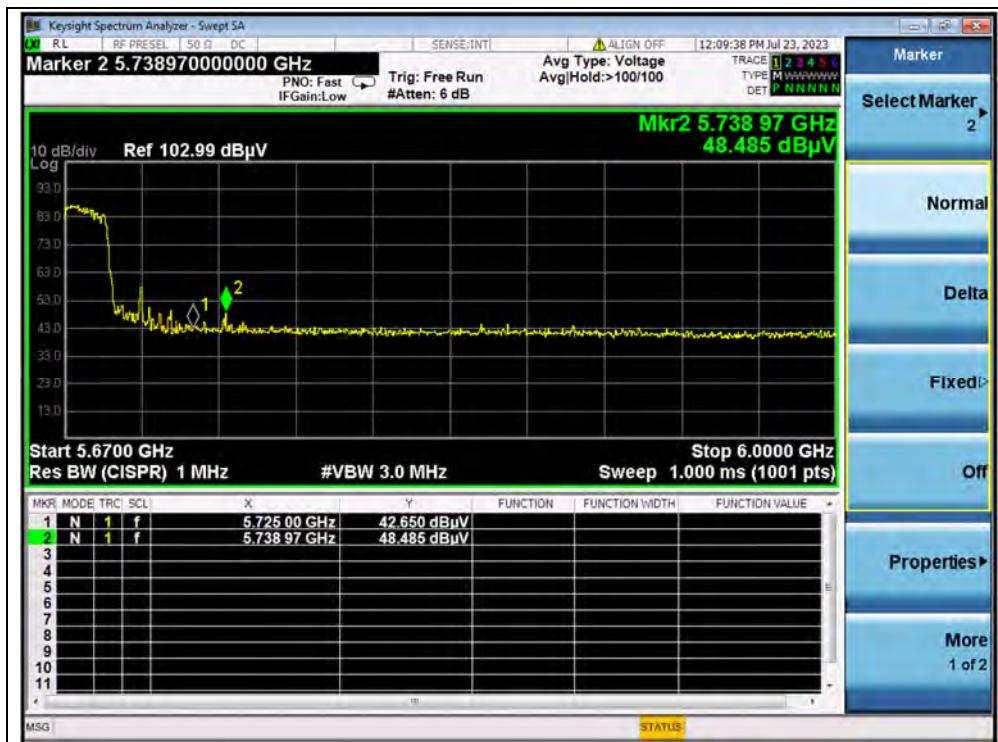
(AVERAGE, Channel 62, 802.11n (HT40))



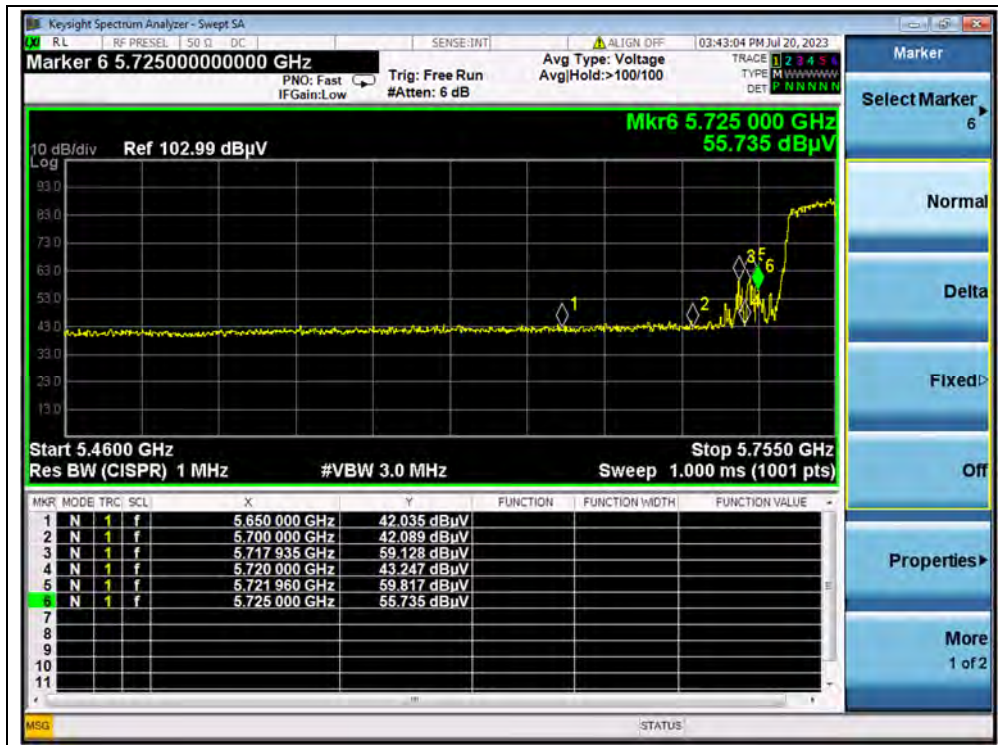
(PEAK, Channel 102, 802.11n (HT40))



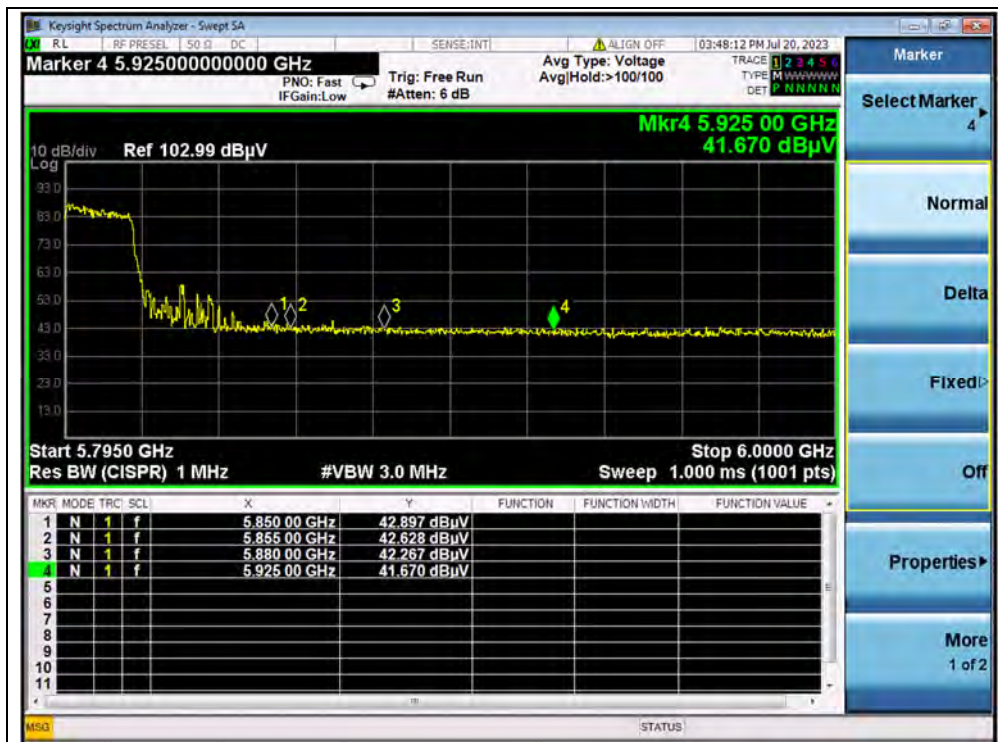
(AVERAGE, Channel 102, 802.11n (HT40))



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



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

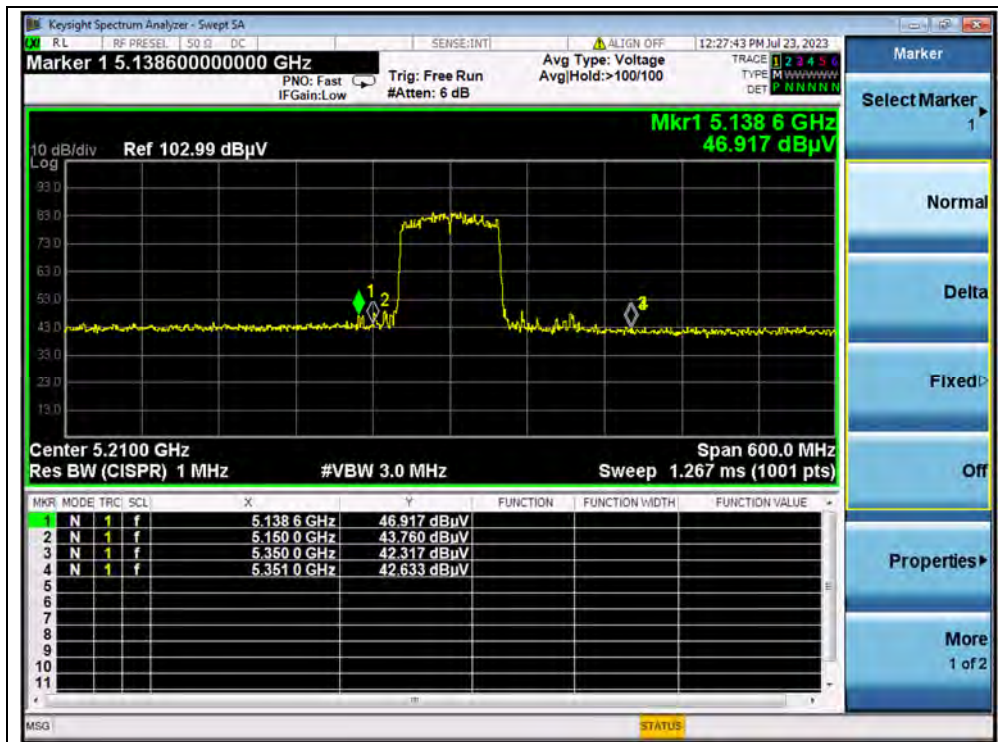


(PEAK, Channel 159, 802.11n (HT40))

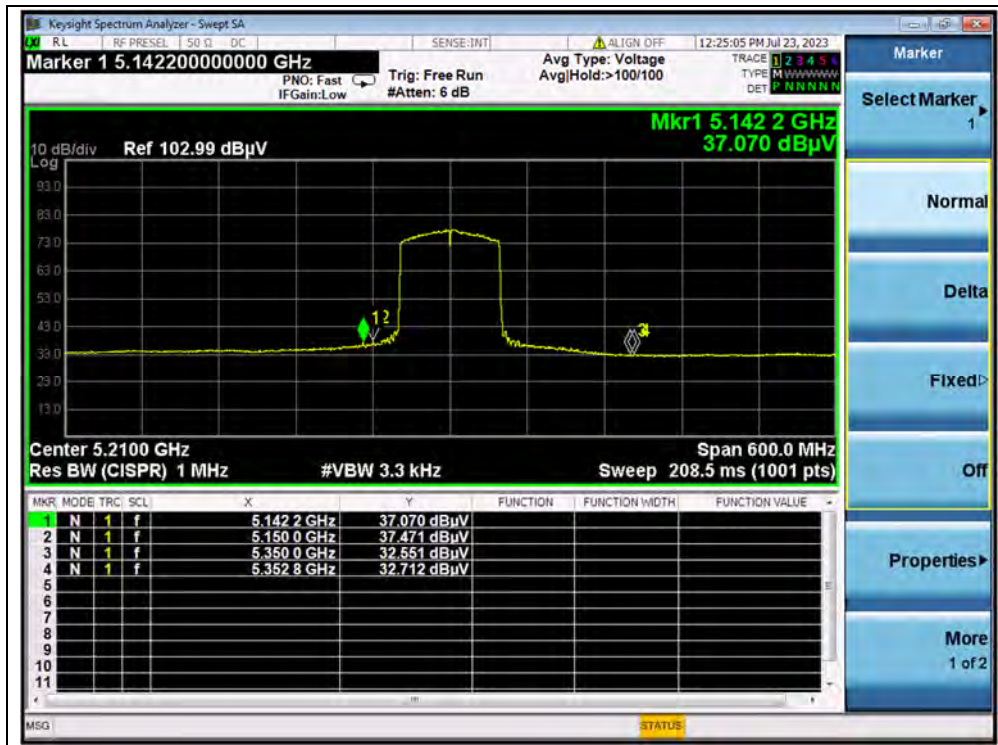


802.11ac (VHT80) Mode

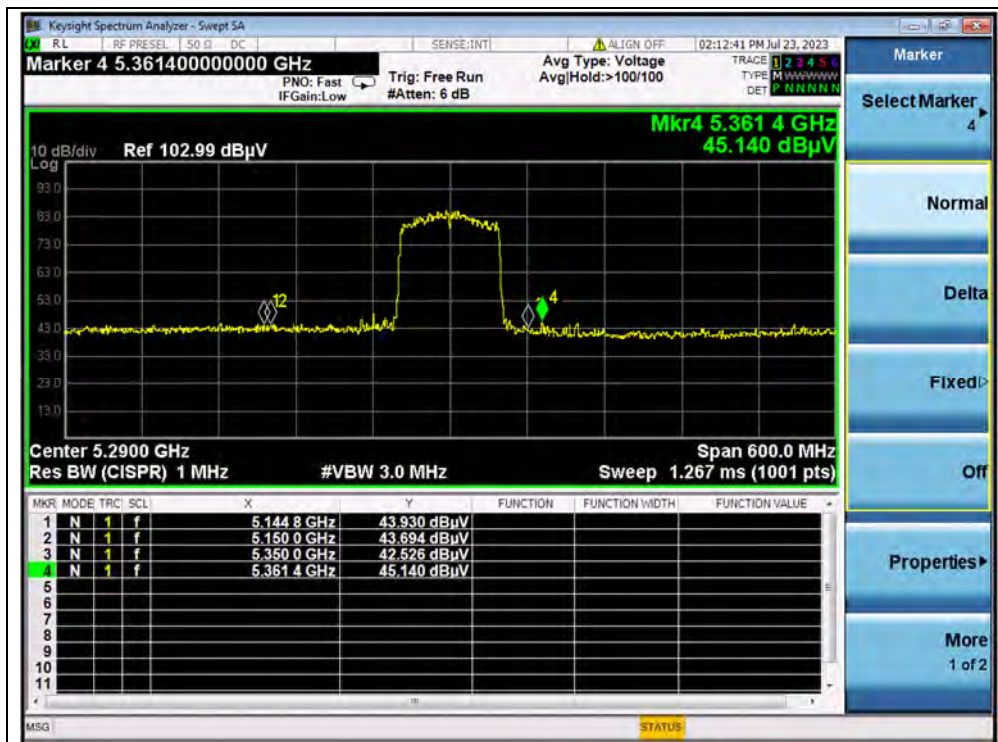
Channel	Frequency (MHz)	Detector	Receiver Reading U _R (dBμV)	A _T (dB)	A _{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
42	5138.60	PK	46.92	-19.54	32.20	59.58	74	PASS
42	5150.00	AV	37.47	-19.54	32.20	50.13	54	PASS
58	5361.40	PK	45.14	-18.80	32.20	58.54	74	PASS
58	5355.40	AV	36.06	-18.80	32.20	49.46	54	PASS
106	5470.00	PK	50.69	-19.20	32.20	63.69	68.23	PASS
106	5457.39	AV	37.79	-19.20	32.20	50.79	54	PASS
138	5737.92	PK	45.21	-19.20	32.20	58.21	68.23	PASS
155	5725.00	PK	48.66	-19.01	32.20	61.85	122.23	PASS
155	5850.00	PK	47.67	-19.01	32.20	60.86	122.23	PASS



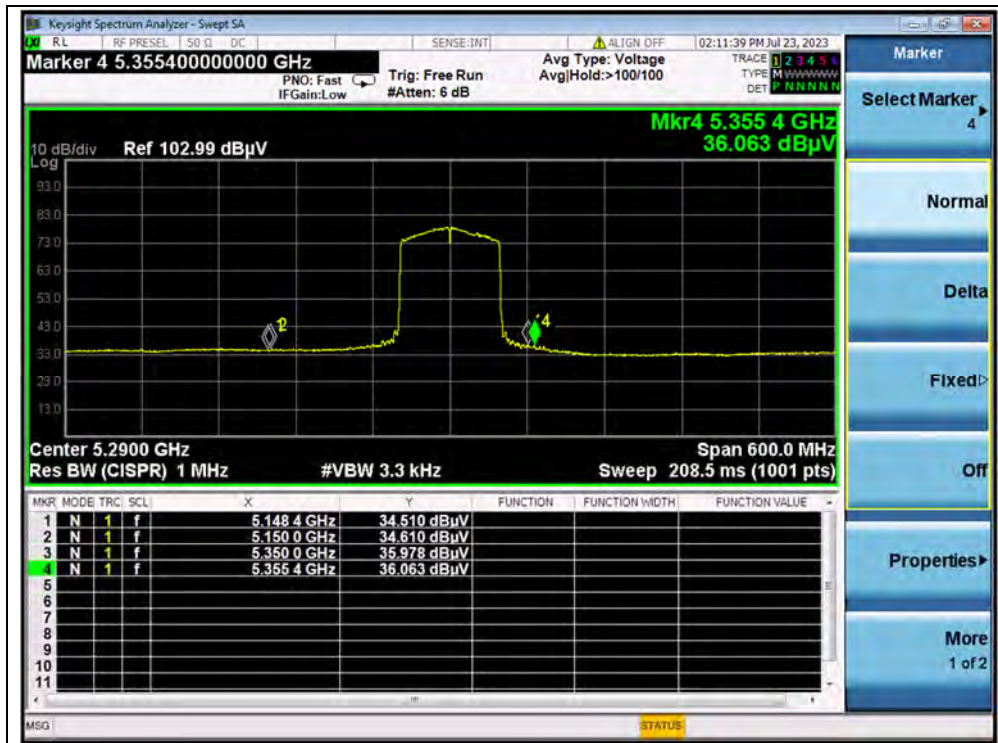
(PEAK, Channel 42, 802.11ac (VHT80))



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



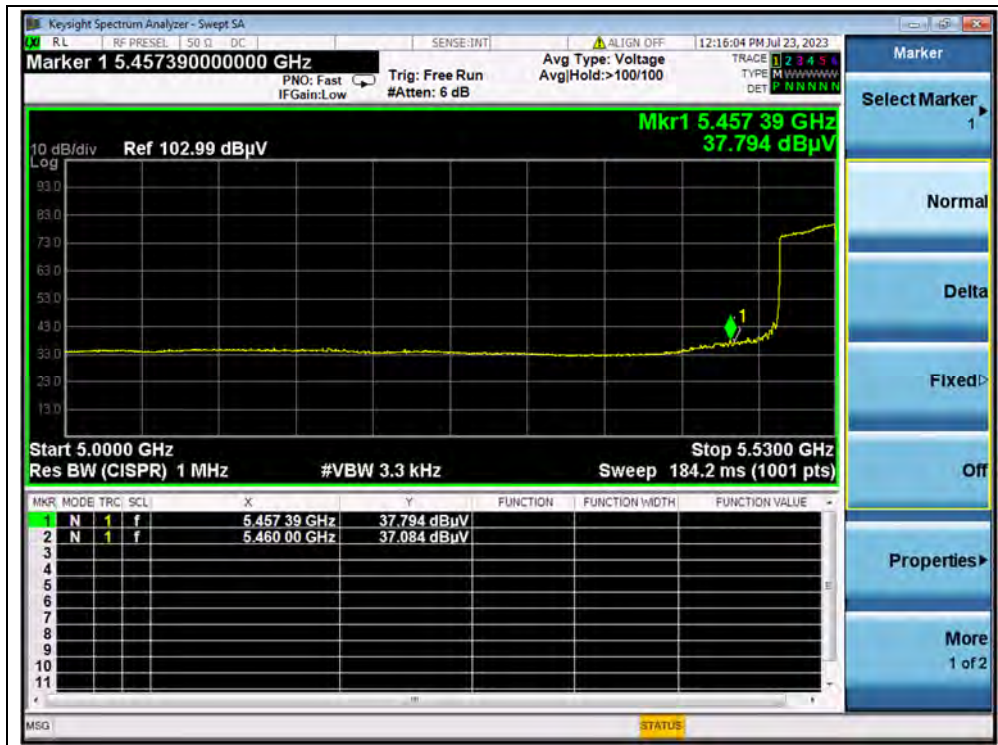
(PEAK, Channel 58, 802.11ac (VHT80))



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



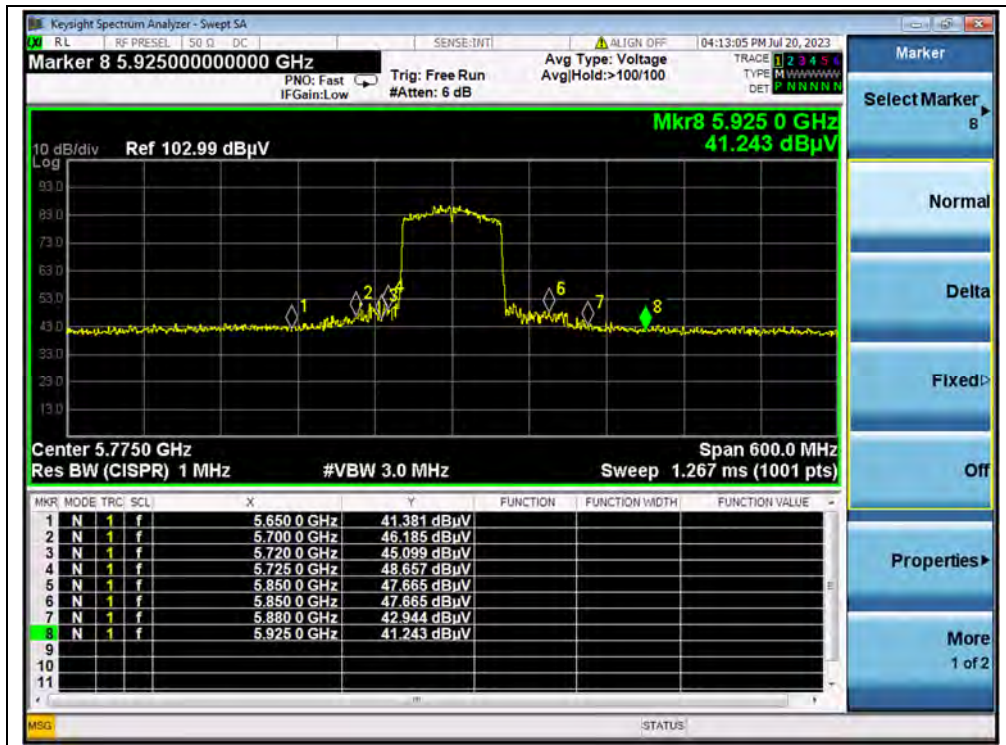
(PEAK, Channel 106, 802.11ac (VHT80))



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



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



(PEAK, Channel 155, 802.11ac (VHT80))



A.9. 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:

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

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.

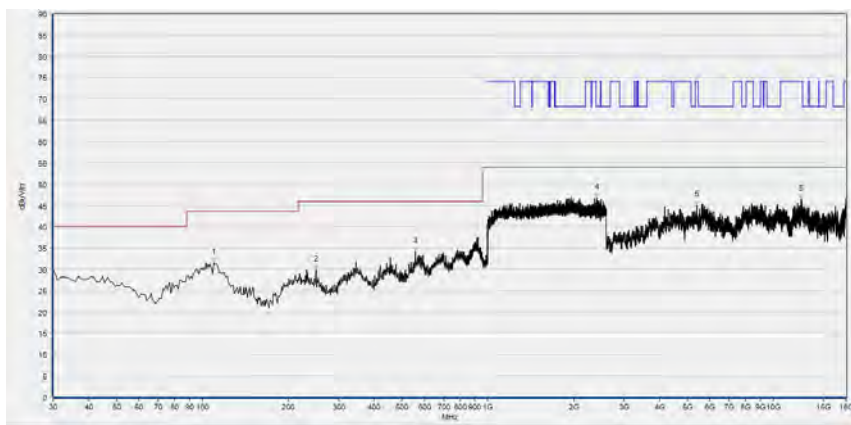
Note3: For the frequency, which started from 18GHz to 10th harmonic of the highest frequency, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

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.



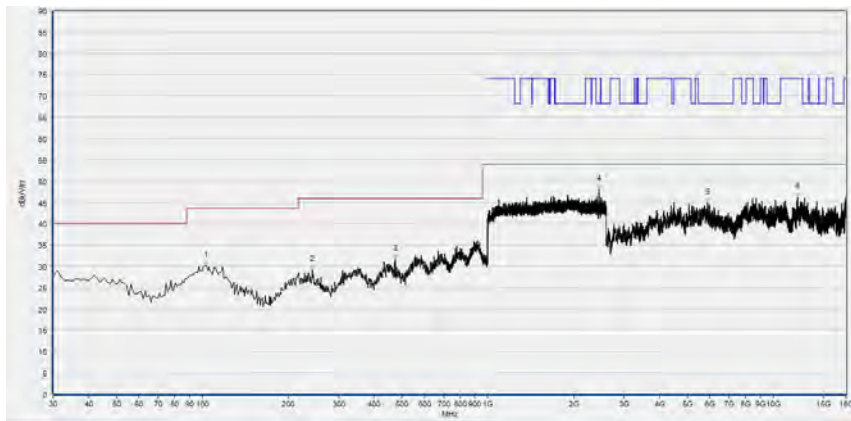
802.11a Mode

Plot for Channel 36



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
109.540	31.55	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
250.190	29.83	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
556.710	34.16	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2411.733	46.79	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5396.640	45.11	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12483.720	46.48	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

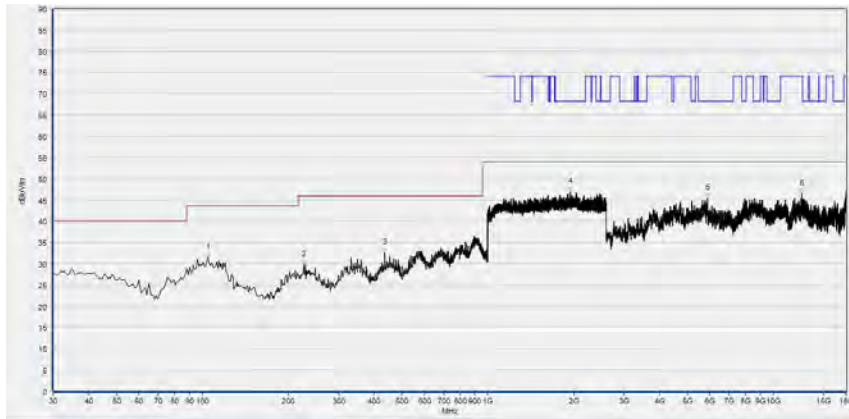
(Antenna Horizontal, 30MHz to 18GHz)



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	30.15	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
242.430	29.16	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
474.260	31.71	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2453.333	48.16	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5877.120	44.86	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12157.240	46.19	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

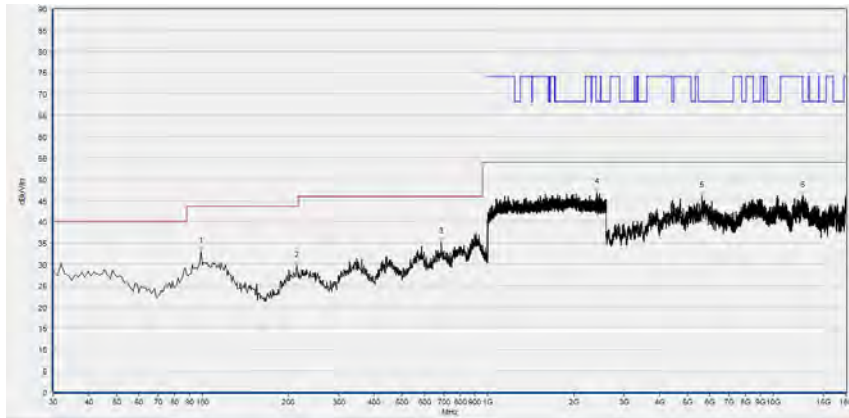
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 44



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
104.690	31.29	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
226.910	29.60	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
435.460	32.45	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1945.067	46.85	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5877.120	45.47	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12610.000	46.35	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

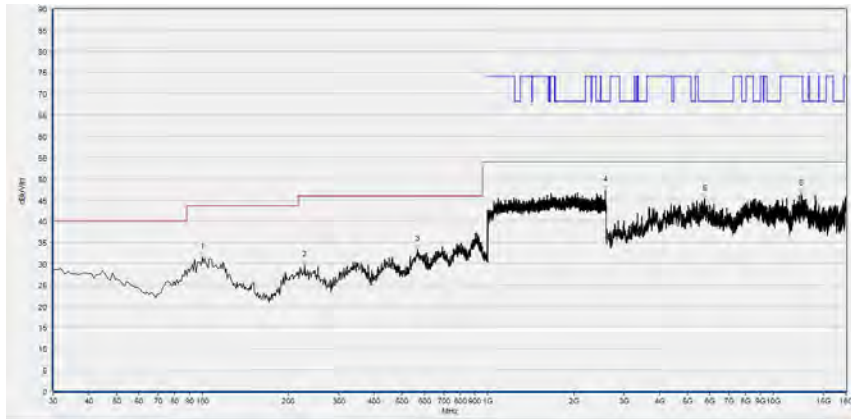
(Antenna Horizontal, 30MHz to 18GHz)



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	32.94	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
214.300	29.74	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
687.660	35.13	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2405.333	46.88	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5633.800	46.03	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12674.680	46.08	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

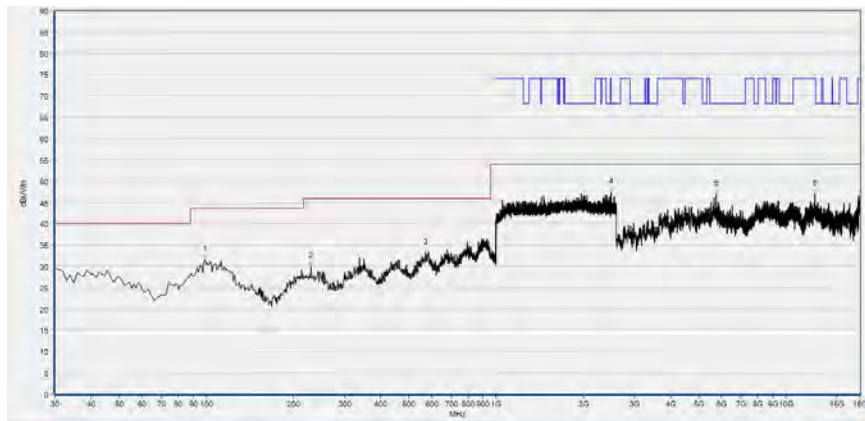
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 48



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
99.840	31.53	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
227.880	29.74	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
566.410	33.30	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2578.667	47.27	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5750.840	45.20	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12517.600	46.42	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

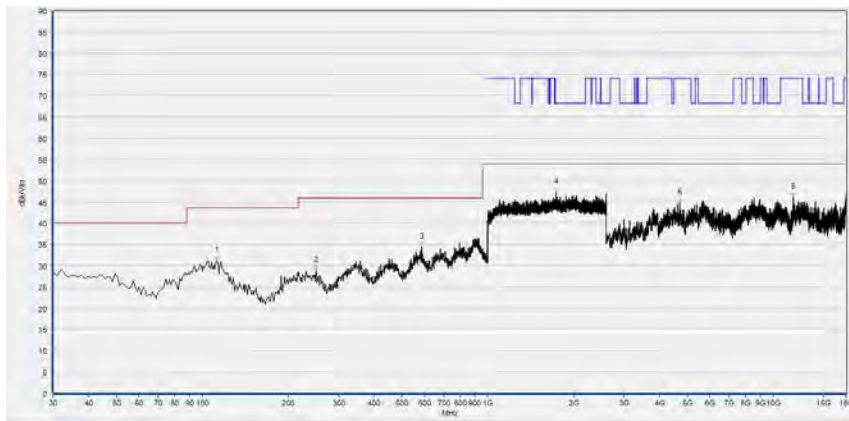
(Antenna Horizontal, 30MHz to 18GHz)



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
98.870	31.56	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
229.820	30.01	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
570.290	33.14	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2491.733	47.35	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5760.080	46.95	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12619.240	46.91	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

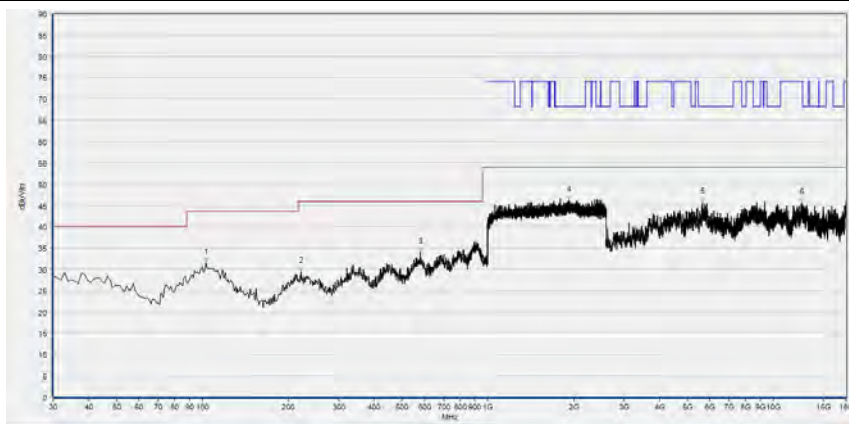
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 52



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
112.450	31.20	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
250.190	28.82	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
586.780	34.28	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1730.667	47.27	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4697.480	44.83	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11735.280	46.12	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

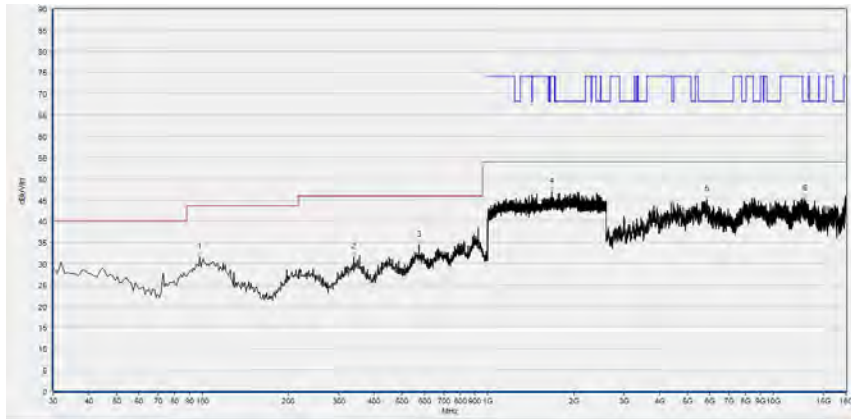
(Antenna Horizontal, 30MHz to 18GHz)



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	31.58	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
222.060	29.54	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
579.990	34.03	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1925.333	46.21	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5639.960	45.72	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12610.000	45.52	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

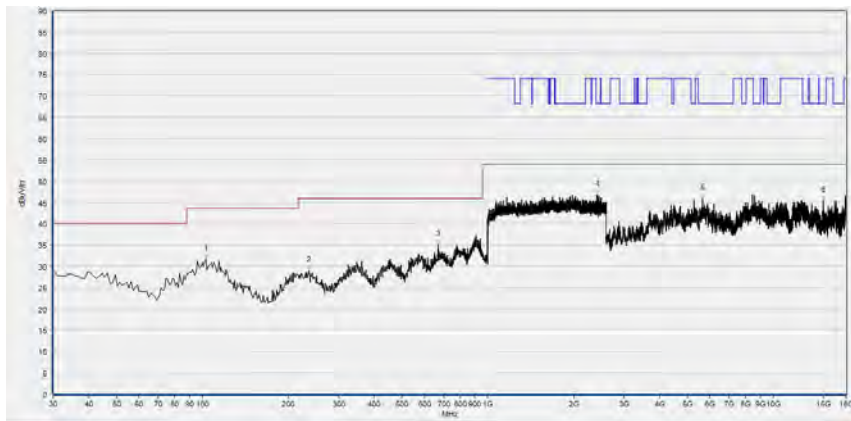
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 60



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
97.900	31.51	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
339.430	31.49	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
575.140	34.35	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1676.800	46.87	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5864.800	45.02	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12896.440	45.18	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

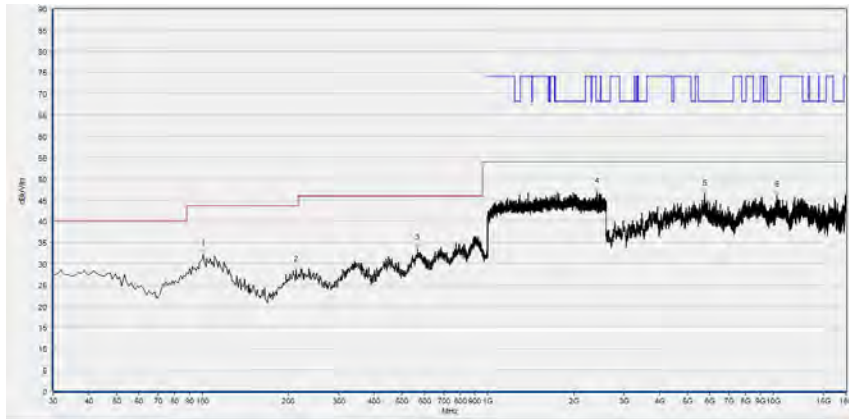
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
102.750	31.66	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
236.610	29.04	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
671.170	35.11	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2419.200	46.84	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5646.120	45.89	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
15006.240	45.45	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

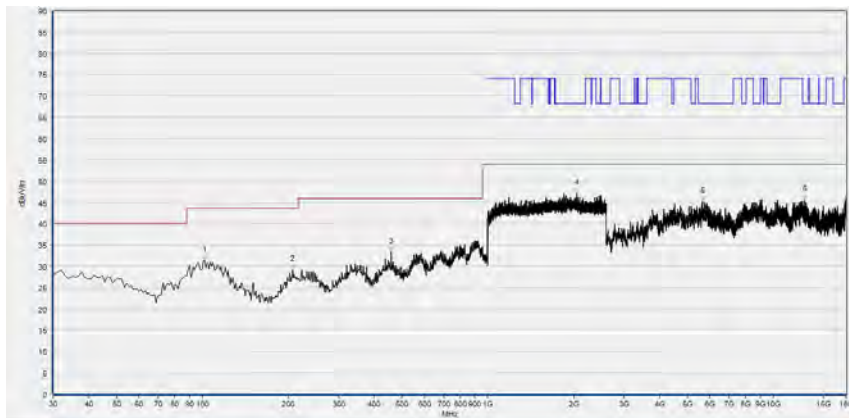
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 64



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
100.810	32.24	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
212.360	28.44	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
567.380	33.59	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2405.333	46.86	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5744.680	46.49	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10318.480	46.03	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

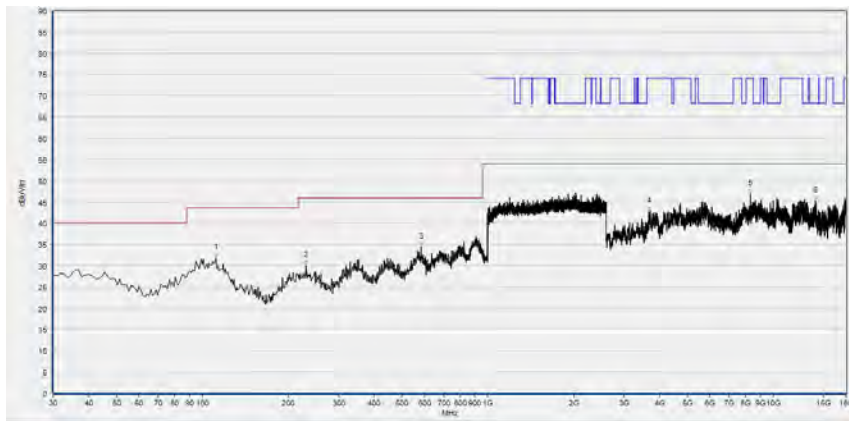
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
101.780	31.40	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
206.540	29.15	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
458.740	33.32	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2050.667	47.08	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5643.040	45.32	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12905.680	45.57	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

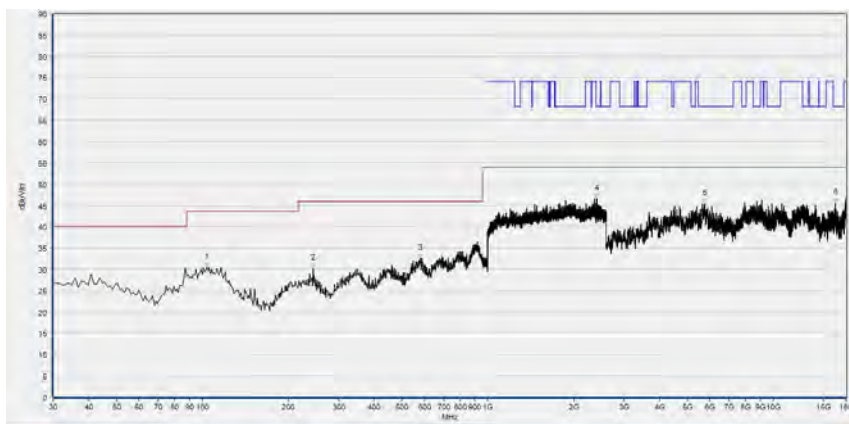
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 100



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
111.480	31.83	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
230.790	29.98	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
583.870	34.28	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
3662.600	42.81	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8310.320	46.94	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14020.640	45.20	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

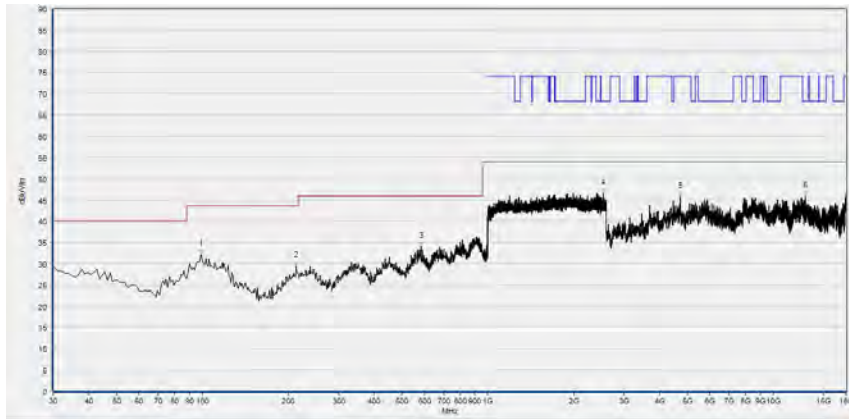
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
103.720	30.42	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
244.370	30.18	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
580.960	32.47	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2405.867	46.54	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5753.920	45.46	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
16543.160	45.53	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

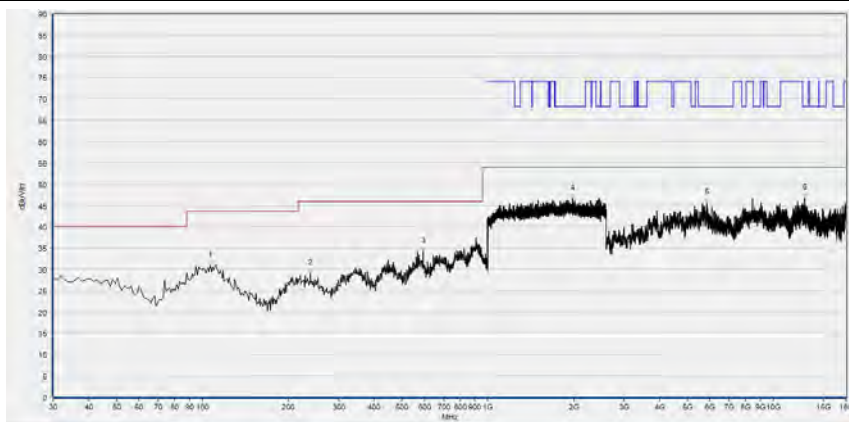
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 120



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
98.870	32.24	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
213.330	29.44	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
582.900	33.95	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2540.267	46.52	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4722.120	45.81	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12976.520	45.87	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

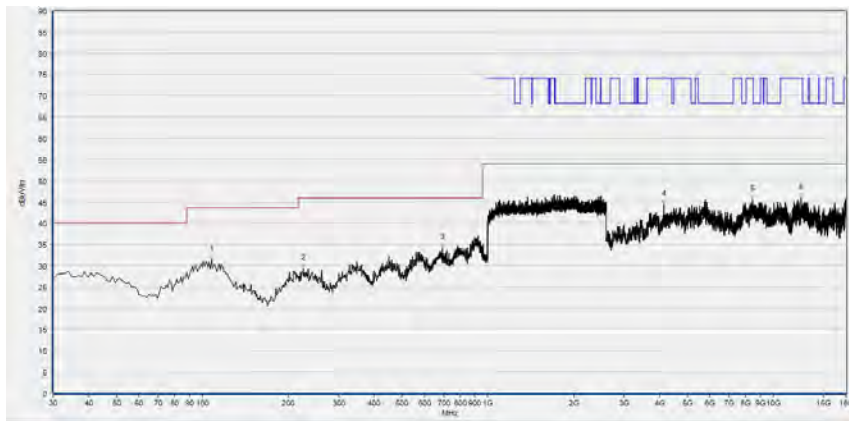
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
106.630	30.79	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
239.520	28.97	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
593.570	34.12	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1981.867	46.62	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5852.480	45.61	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12887.200	46.69	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

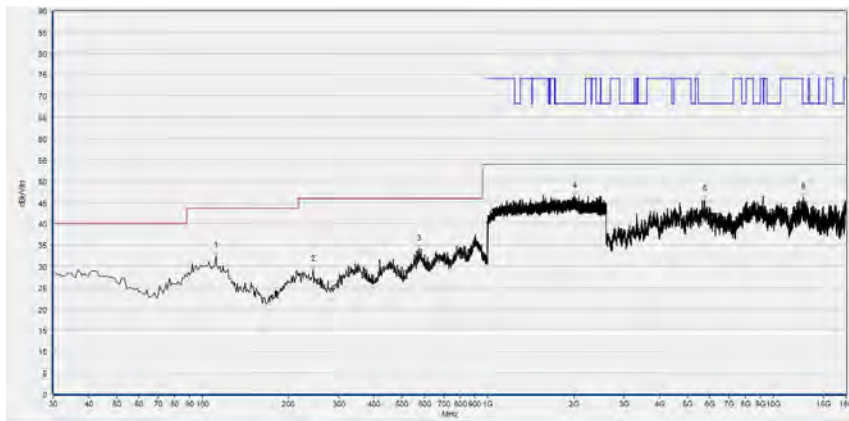
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 144



Fre. (MHz)	PK (dB μ V/m)	QP (dB μ V/m)	AV (dB μ V/m)	Limit-PK (dB μ V/m)	Limit-QP (dB μ V/m)	Limit-AV (dB μ V/m)	Antenna	Verdict
107.600	31.27	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
225.940	29.36	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
692.510	34.17	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
4146.160	44.48	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8467.400	45.64	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12514.520	45.84	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

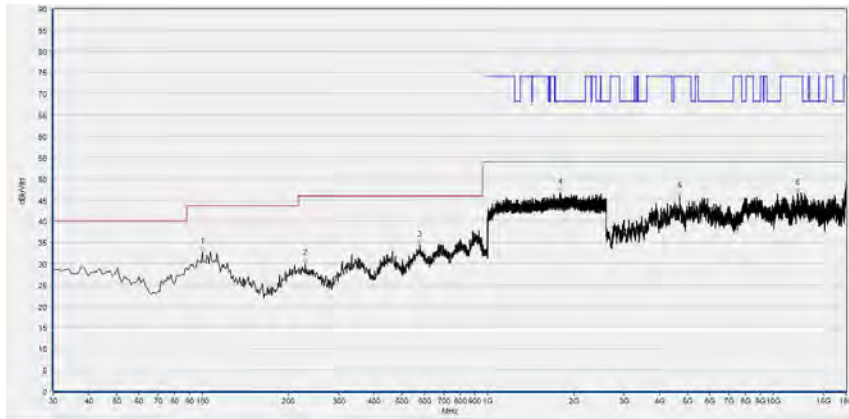
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dB μ V/m)	QP (dB μ V/m)	AV (dB μ V/m)	Limit-PK (dB μ V/m)	Limit-QP (dB μ V/m)	Limit-AV (dB μ V/m)	Antenna	Verdict
111.480	32.41	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
244.370	29.09	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
573.200	33.95	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2010.667	46.41	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5738.520	45.51	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12720.880	46.27	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

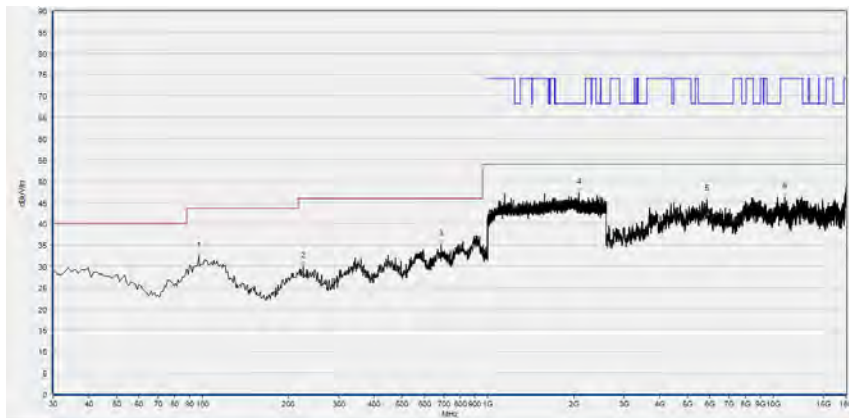
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 149



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
99.840	32.62	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
228.850	29.92	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
578.050	34.35	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1795.200	46.80	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4709.800	45.90	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12166.480	46.64	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

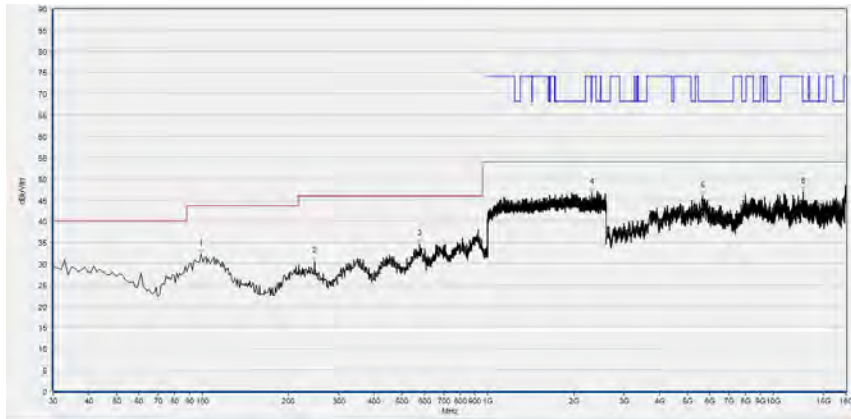
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
96.930	32.31	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
225.940	30.03	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
687.660	35.09	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2090.667	47.29	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5861.720	45.75	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
10934.480	46.17	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

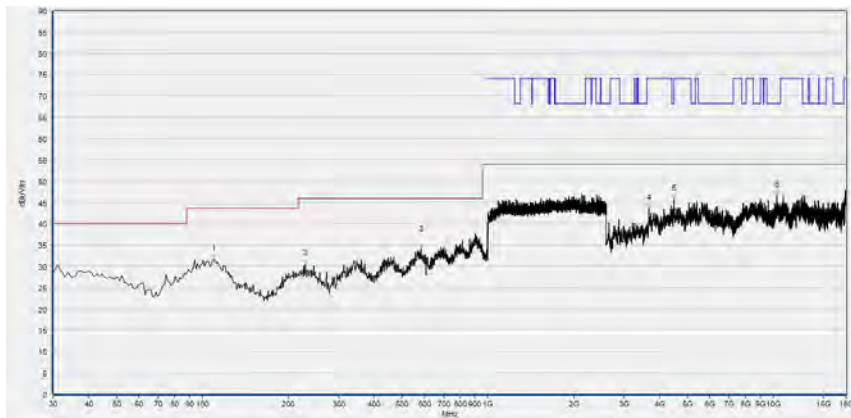
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 157



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
98.870	32.17	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
247.280	30.43	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
577.080	34.72	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2314.667	46.71	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5655.360	45.96	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12742.440	46.89	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

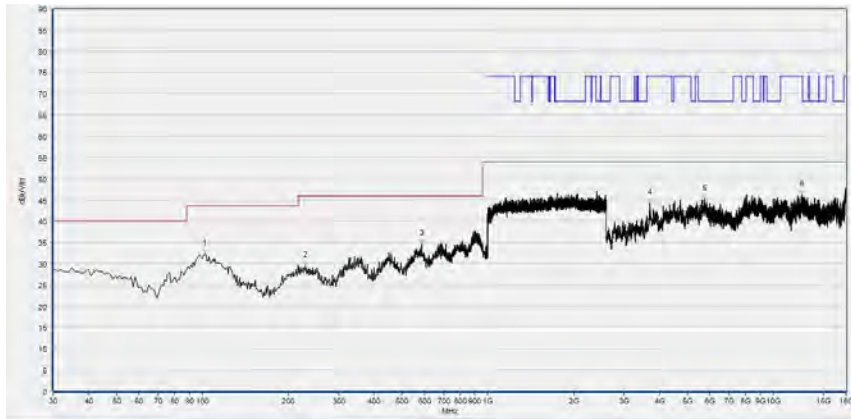
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
109.540	31.68	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
229.820	30.58	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
583.870	34.12	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
3665.680	43.61	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4494.200	45.80	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
10306.160	46.51	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

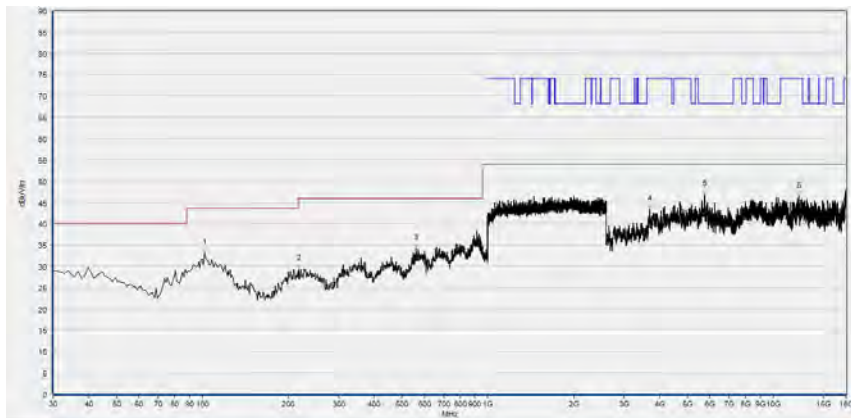
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 165



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
101.780	32.19	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
229.820	29.57	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
586.780	34.64	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
3699.560	44.26	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5747.760	45.33	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12594.600	46.25	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

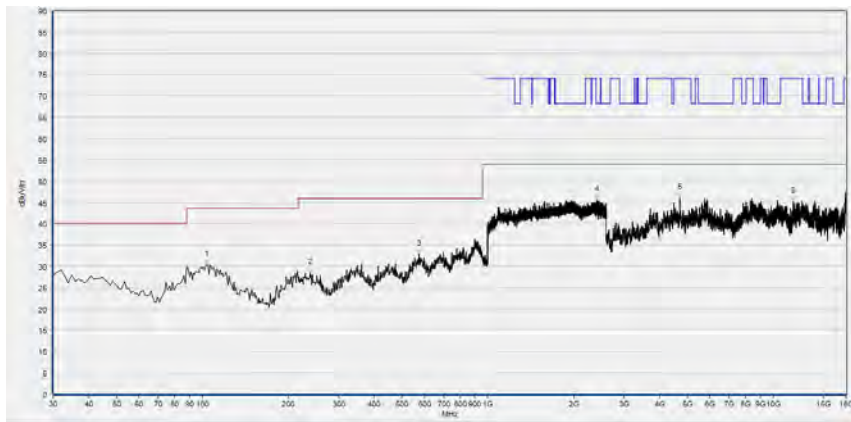


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
101.780	33.26	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
218.180	29.29	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
560.590	34.26	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
3693.400	43.43	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5744.680	46.97	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12292.760	46.50	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

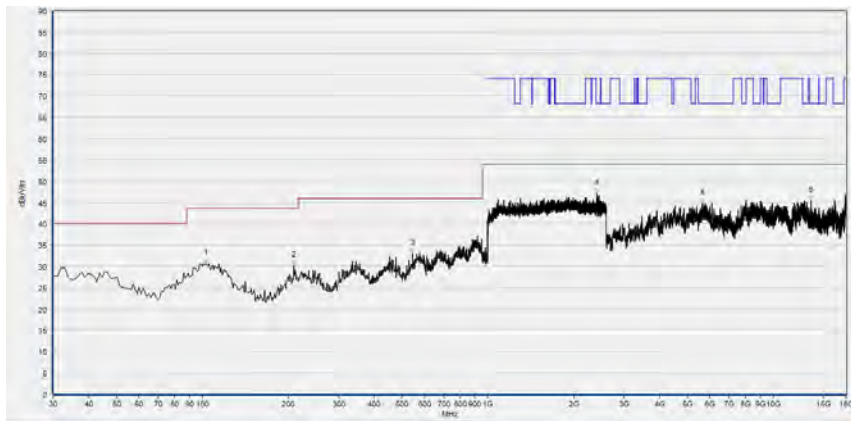
802.11n (HT40) mode

Plot for Channel 38



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
103.720	30.27	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
238.550	28.45	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
572.230	32.79	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2405.333	45.55	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4709.800	46.12	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11735.280	45.31	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

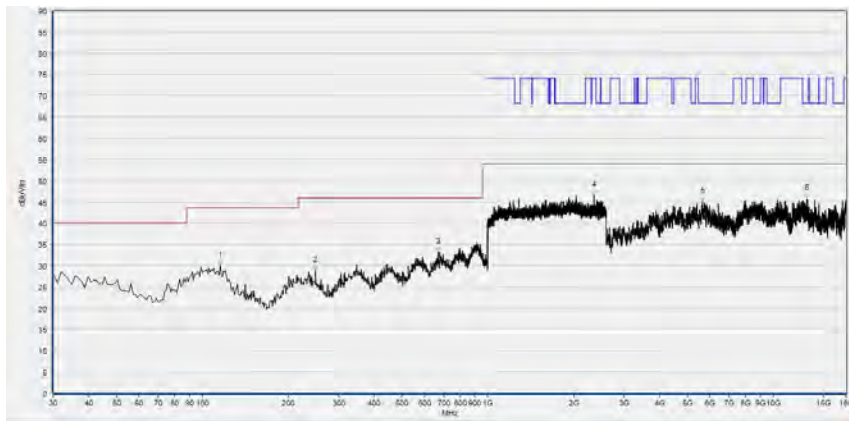
(Antenna Horizontal, 30MHz to 18GHz)



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
102.750	30.68	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
209.450	30.16	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
546.040	33.03	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2412.800	47.06	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5636.880	44.74	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
13595.600	45.36	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

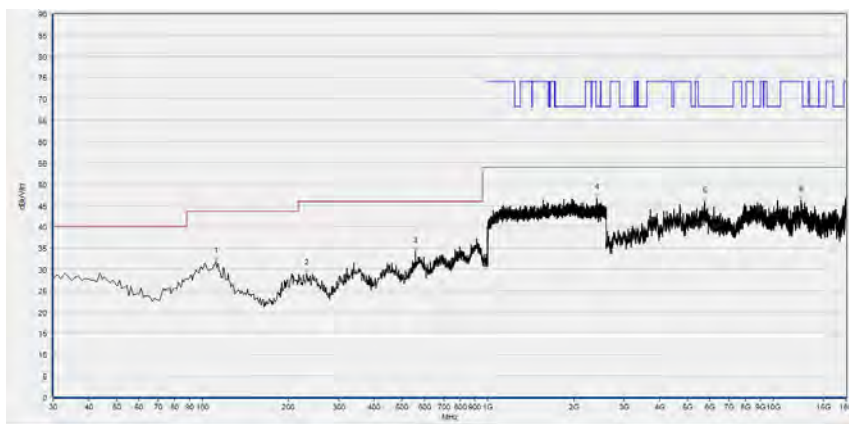
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 46



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
115.360	29.92	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
249.220	28.81	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
668.260	33.14	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2354.133	46.51	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5646.120	45.13	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
13145.920	45.83	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

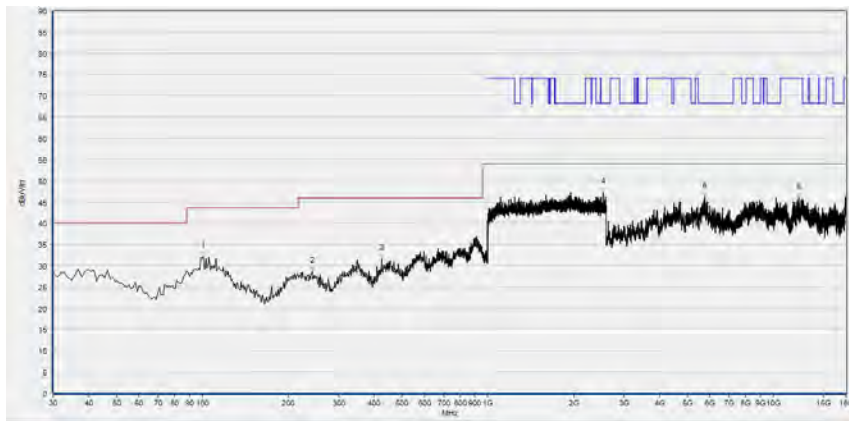
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
111.480	31.77	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
231.760	29.06	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
558.650	34.13	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2404.267	46.76	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5753.920	45.97	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12492.960	46.24	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

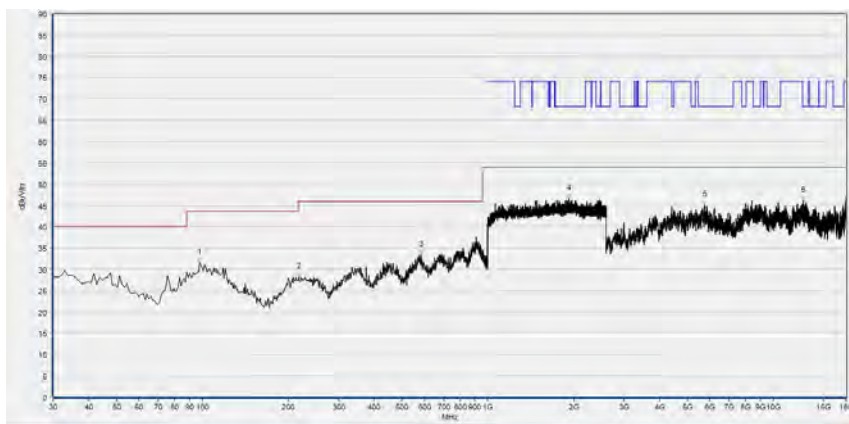
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 54



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
100.810	32.18	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
242.430	28.73	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
423.820	31.67	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2532.800	47.29	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5760.080	46.28	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12289.680	45.85	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

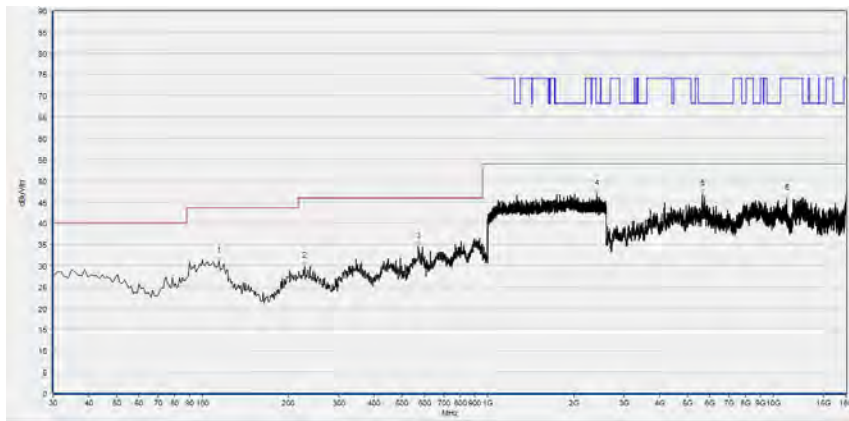
(Antenna Horizontal, 30MHz to 18GHz)



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
97.900	31.58	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
217.210	28.20	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
583.870	33.36	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1927.467	46.54	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5757.000	45.06	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12742.440	46.02	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

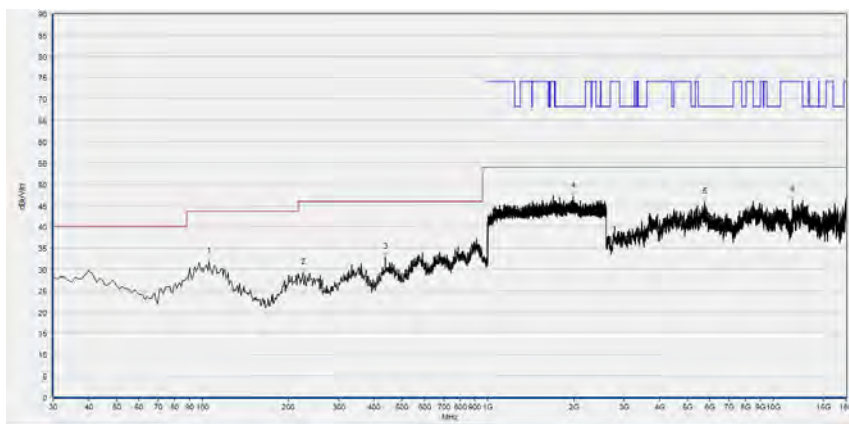
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 62



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
114.390	31.03	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
227.880	29.78	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
571.260	34.49	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2406.400	46.99	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5636.880	46.89	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11140.840	45.81	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

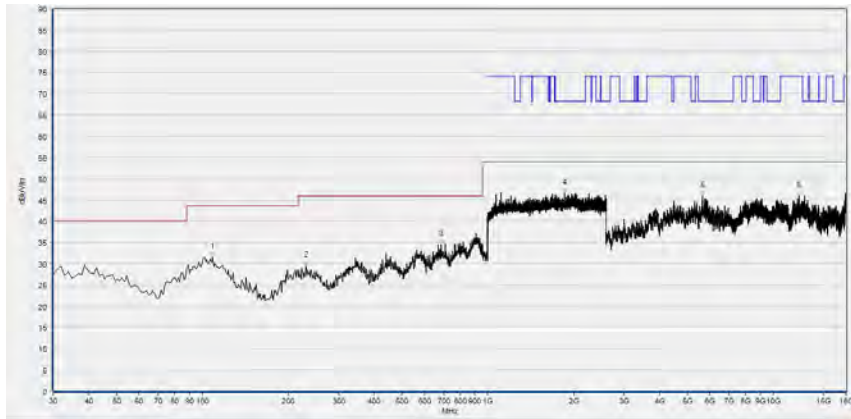
(Antenna Horizontal, 30MHz to 18GHz)



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
105.660	31.90	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
224.970	29.20	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
437.400	32.84	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1995.733	47.12	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5753.920	45.81	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
11707.560	46.32	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

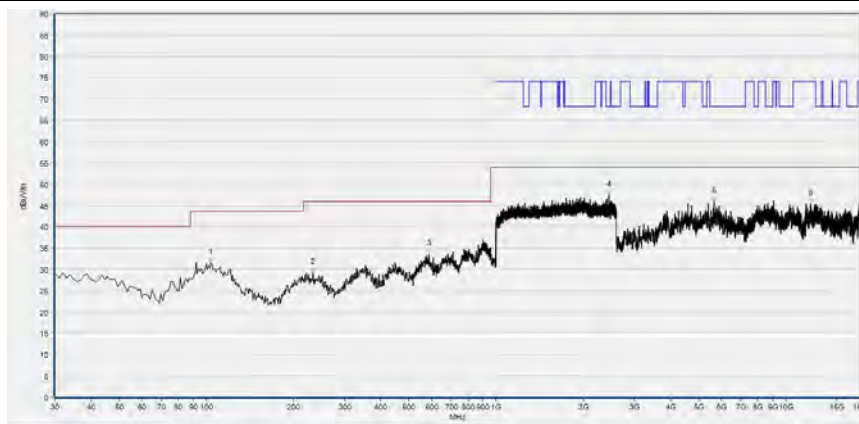
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 102



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
108.570	31.51	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
230.790	29.44	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
687.660	34.46	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1858.667	46.60	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5646.120	45.90	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12323.560	45.87	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

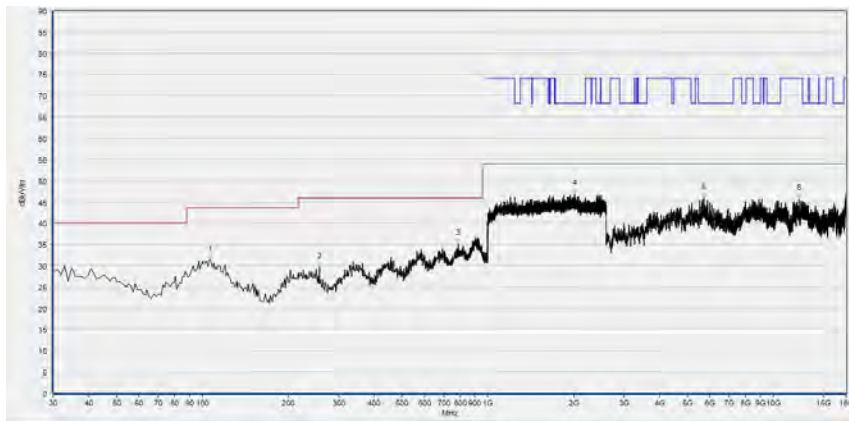
(Antenna Horizontal, 30MHz to 18GHz)



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
103.720	31.56	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
233.700	29.15	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
586.780	33.50	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2447.467	47.50	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5646.120	45.88	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12163.400	45.36	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

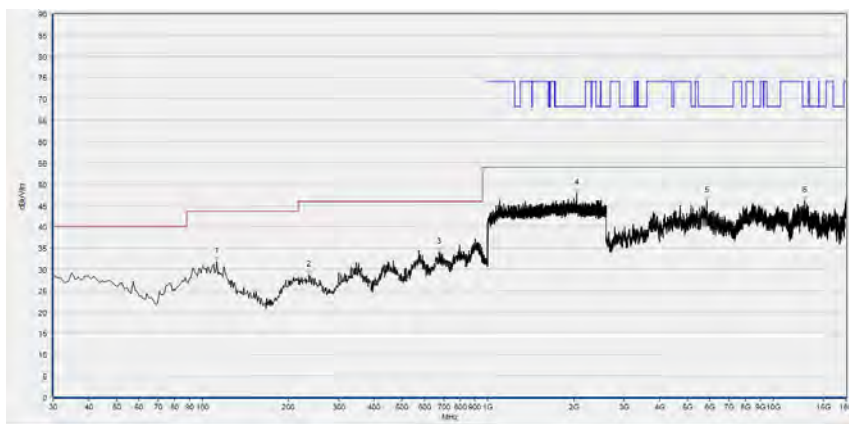
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 126



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
106.630	31.32	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
256.980	29.63	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
789.510	35.27	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2019.200	46.98	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5726.200	45.87	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12308.160	45.70	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

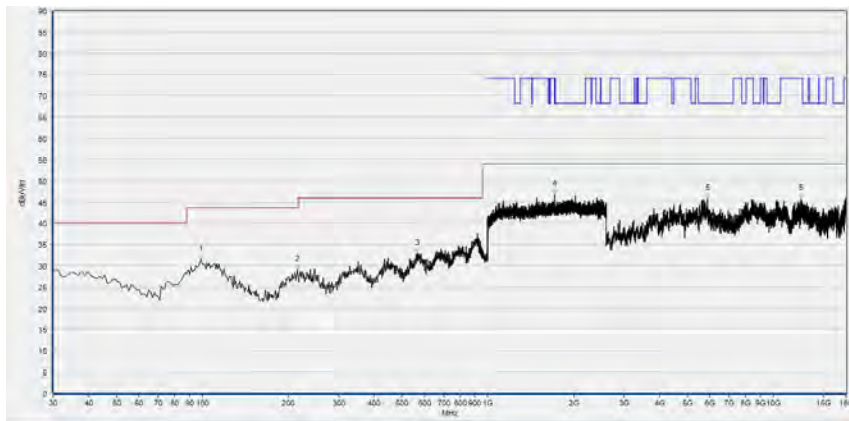
(Antenna Horizontal, 30MHz to 18GHz)



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
112.450	31.88	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
236.610	28.65	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
675.050	33.94	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2048.533	47.91	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5861.720	46.06	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12905.680	46.06	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

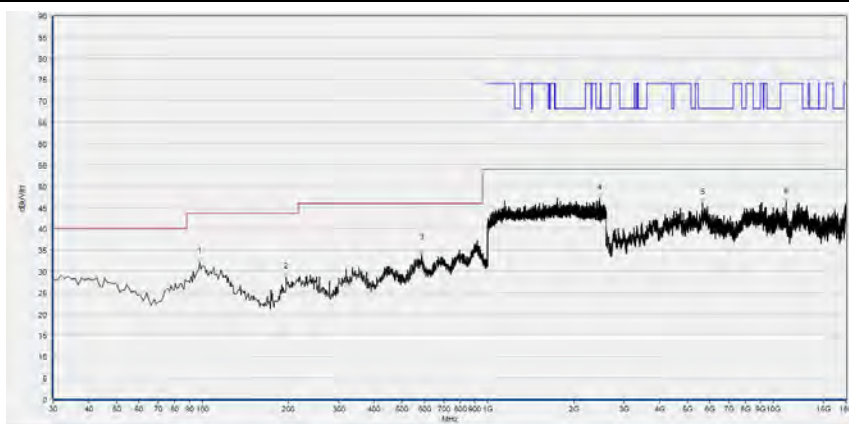
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 142



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
98.870	31.30	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
215.270	28.94	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
566.410	32.86	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1712.000	46.83	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5874.040	45.79	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12496.040	45.72	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

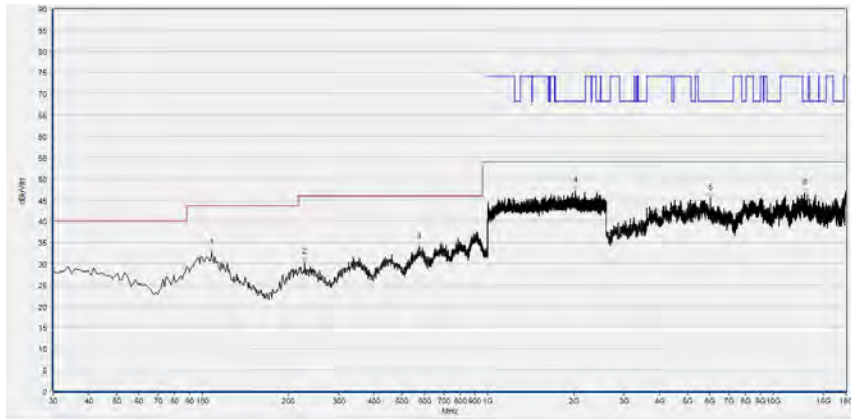
(Antenna Horizontal, 30MHz to 18GHz)



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
97.900	32.10	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
196.840	28.62	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
585.810	33.79	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2464.000	47.02	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5655.360	46.10	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
11060.760	46.28	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

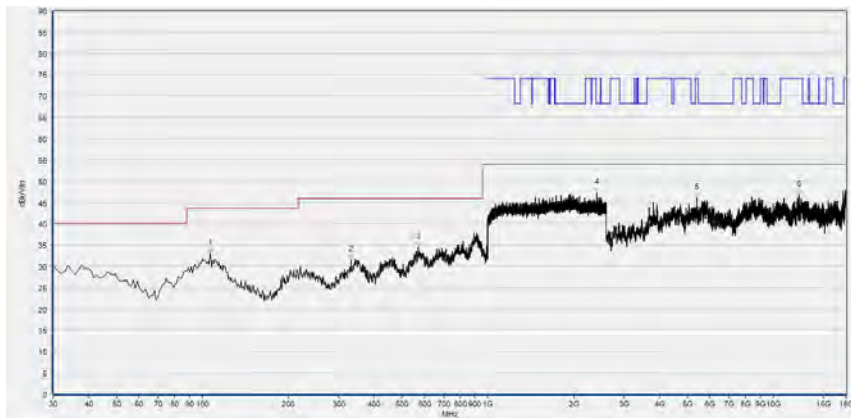
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 151



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
107.600	32.57	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
227.880	30.31	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
573.200	33.79	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2026.133	47.12	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
6034.200	45.34	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12896.440	46.53	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

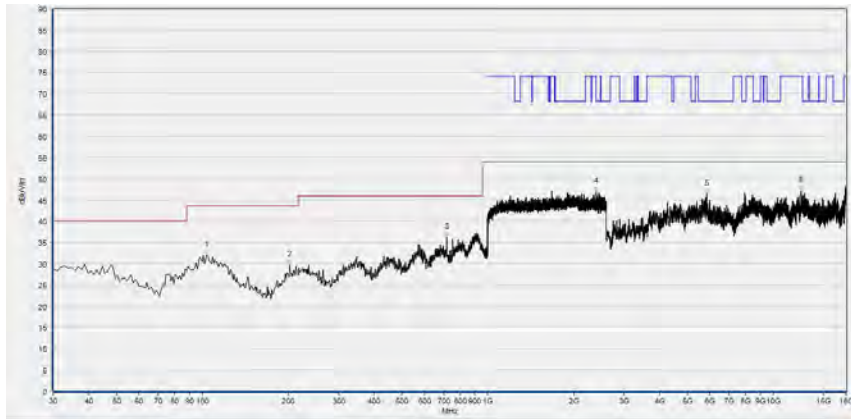
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
106.630	33.00	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
332.640	31.47	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
571.260	34.49	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2411.200	47.25	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5402.800	46.07	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12289.680	46.81	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

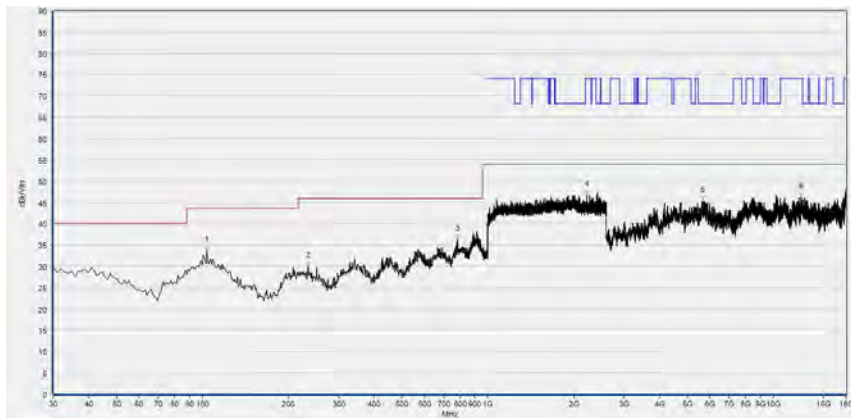
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 159



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
103.720	31.97	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
202.660	29.74	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
717.730	36.20	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2388.800	46.91	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5858.640	46.41	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12545.320	47.09	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



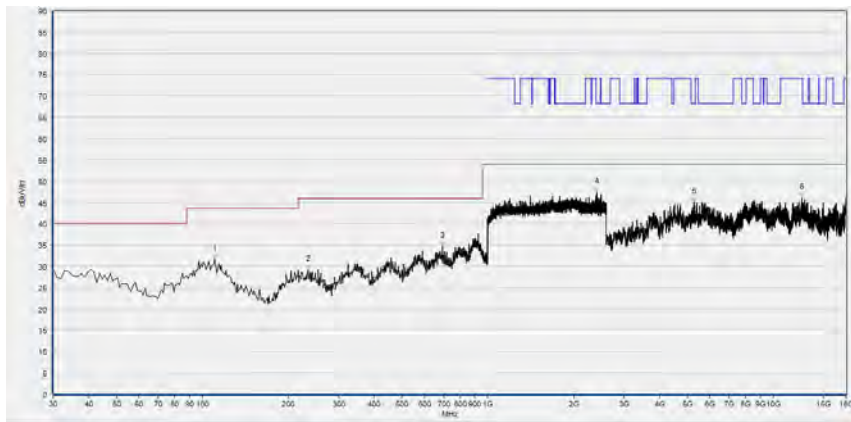
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
103.720	33.64	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
234.670	29.95	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
783.690	36.36	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2220.800	46.74	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5652.280	45.35	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12523.760	46.18	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)



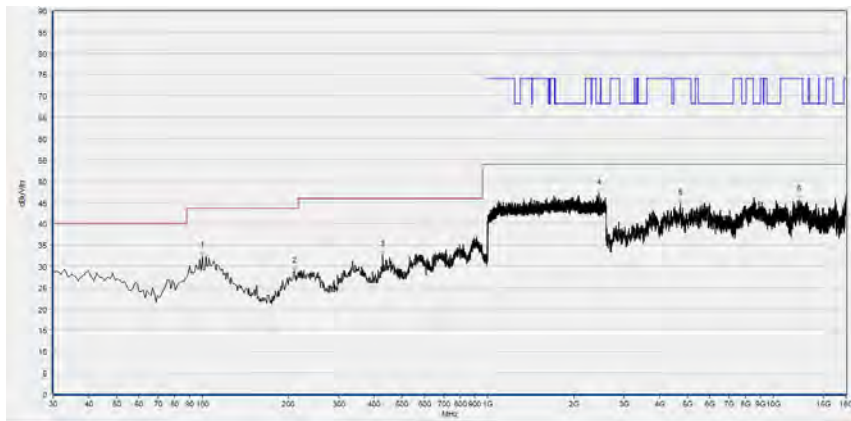
802.11ac (VHT80) Mode

Plot for Channel 42



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
110.510	31.70	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
234.670	29.09	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
693.480	34.73	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2414.400	47.36	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5282.680	45.03	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12566.880	46.01	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

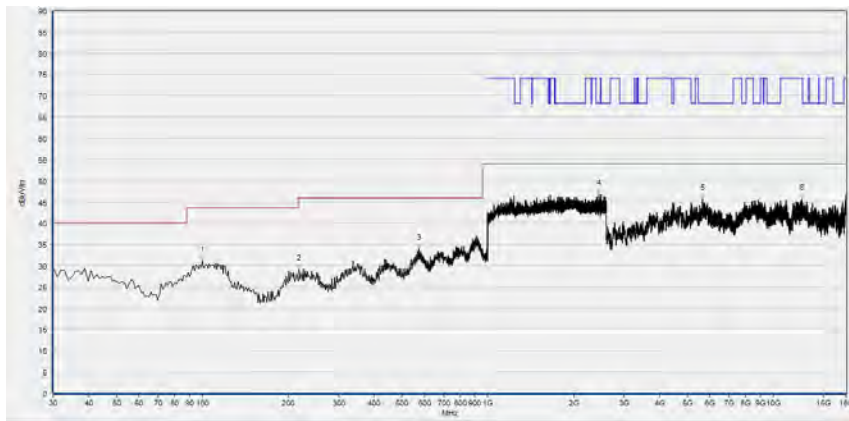
(Antenna Horizontal, 30MHz to 18GHz)



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
99.840	32.28	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
210.420	28.87	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
428.670	32.63	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2452.800	47.16	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4728.280	44.70	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12305.080	45.57	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

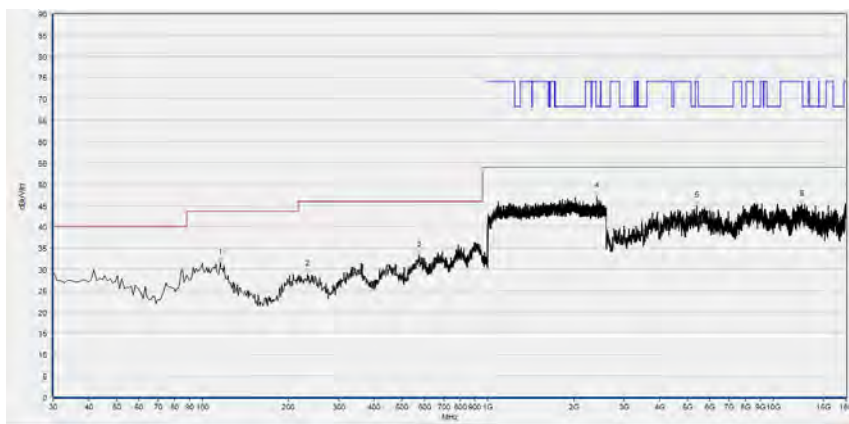
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 58



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
99.840	31.24	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
218.180	29.23	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
575.140	33.96	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2456.000	46.87	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5646.120	45.81	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12588.440	45.82	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

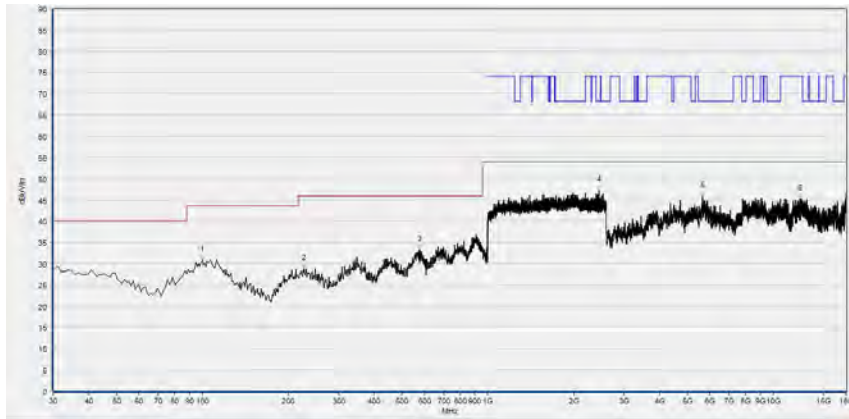
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
115.360	31.59	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
233.700	28.84	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
574.170	33.30	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2406.400	47.17	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5393.560	44.83	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12613.080	45.21	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

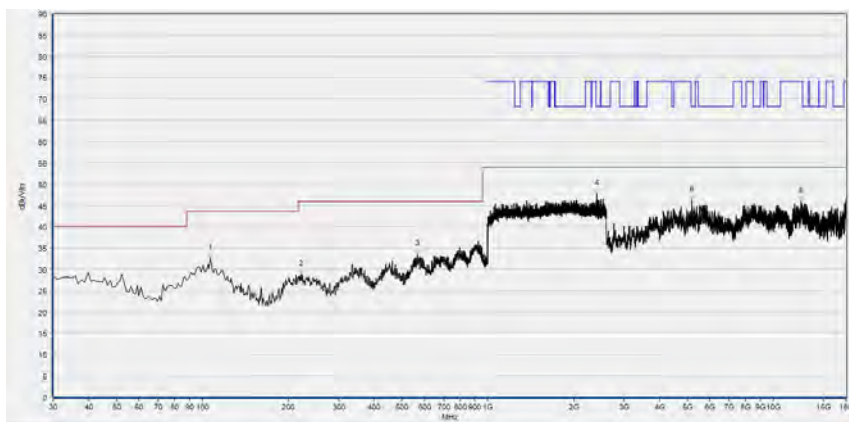
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 106



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
99.840	30.85	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
226.910	28.75	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
577.080	33.39	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2449.600	47.26	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5639.960	45.89	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12348.200	45.32	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

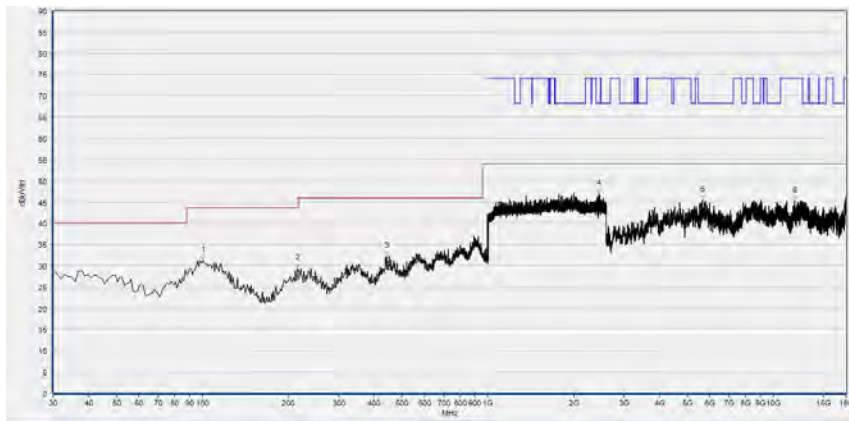
(Antenna Horizontal, 30MHz to 18GHz)



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
106.630	32.44	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
221.090	28.82	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
567.380	33.56	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2411.733	47.70	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5187.200	46.28	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12511.440	46.00	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

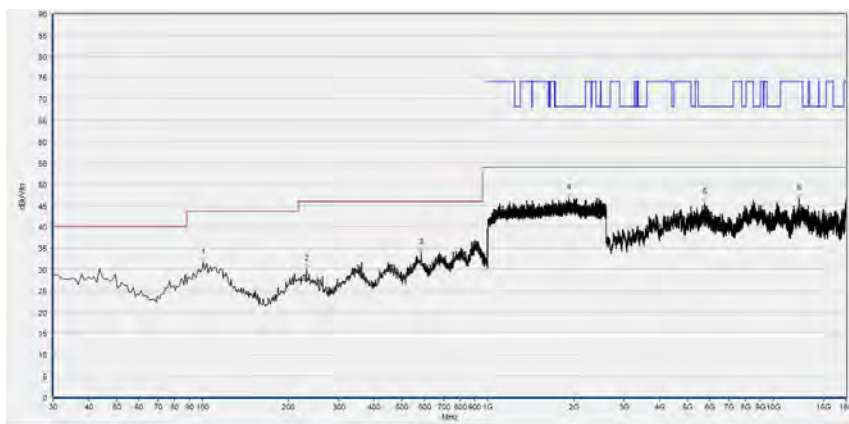
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 122



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
100.810	31.22	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
215.270	29.32	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
442.250	32.16	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2452.267	46.95	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5649.200	45.34	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11910.840	45.33	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

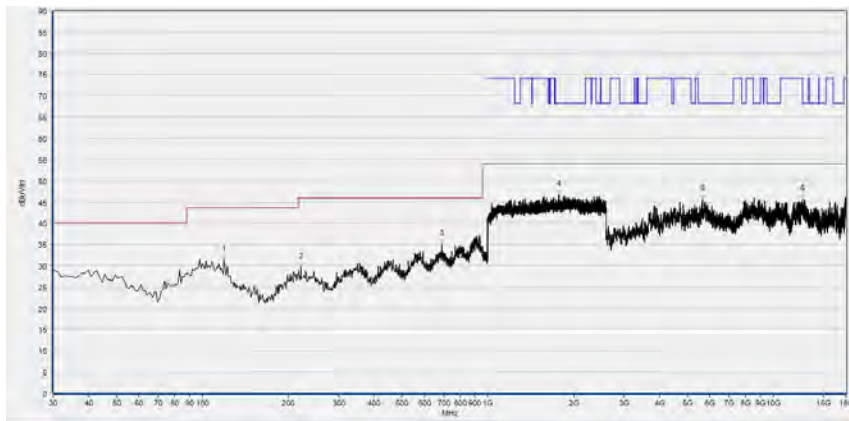
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
100.810	31.52	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
231.760	29.96	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
584.840	33.87	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1928.533	46.76	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5750.840	45.58	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12305.080	46.64	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

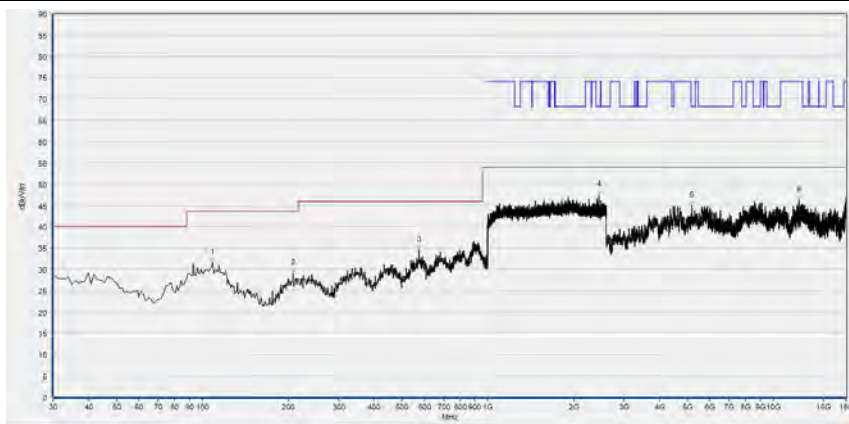
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 138



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
119.240	31.29	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
221.090	29.63	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
689.600	35.01	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1774.400	46.80	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5643.040	45.62	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12643.880	45.60	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

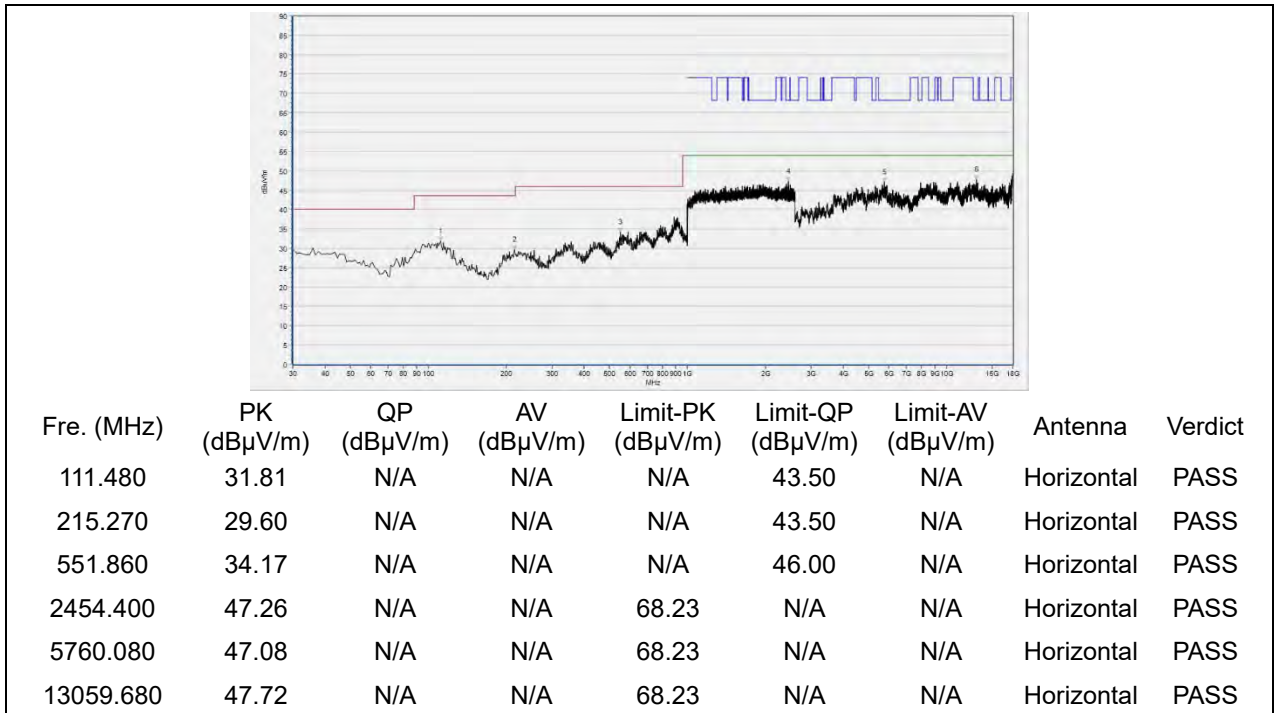


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
108.570	31.45	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
207.510	28.93	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
573.200	34.45	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2450.667	47.40	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5174.880	44.99	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12317.400	46.28	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

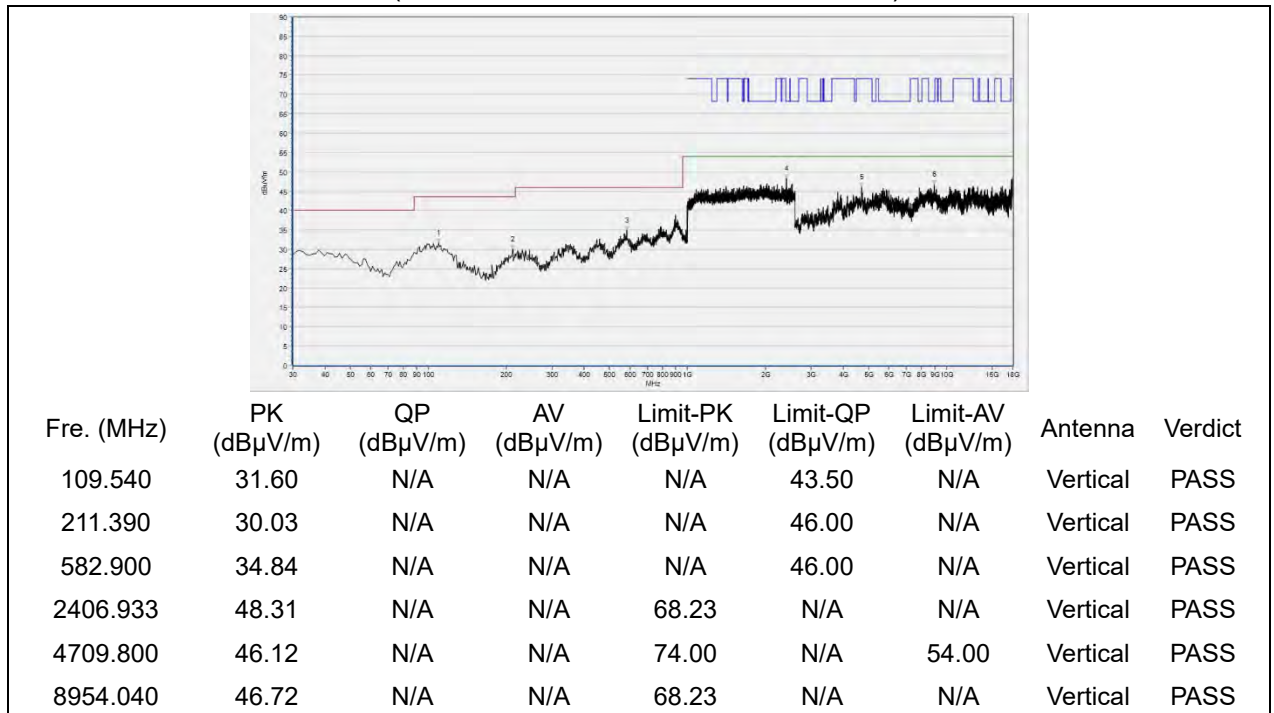
(Antenna Vertical, 30MHz to 18GHz)



Plot for Channel 155



(Antenna Horizontal, 30MHz to 18GHz)



(Antenna Vertical, 30MHz to 18GHz)

END OF REPORT