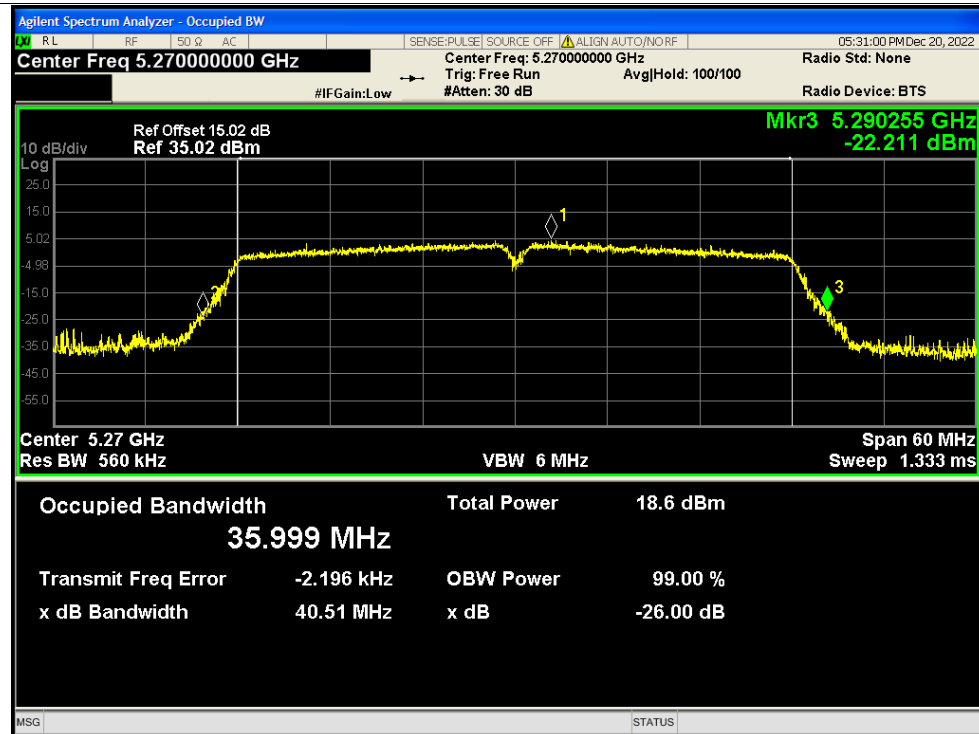
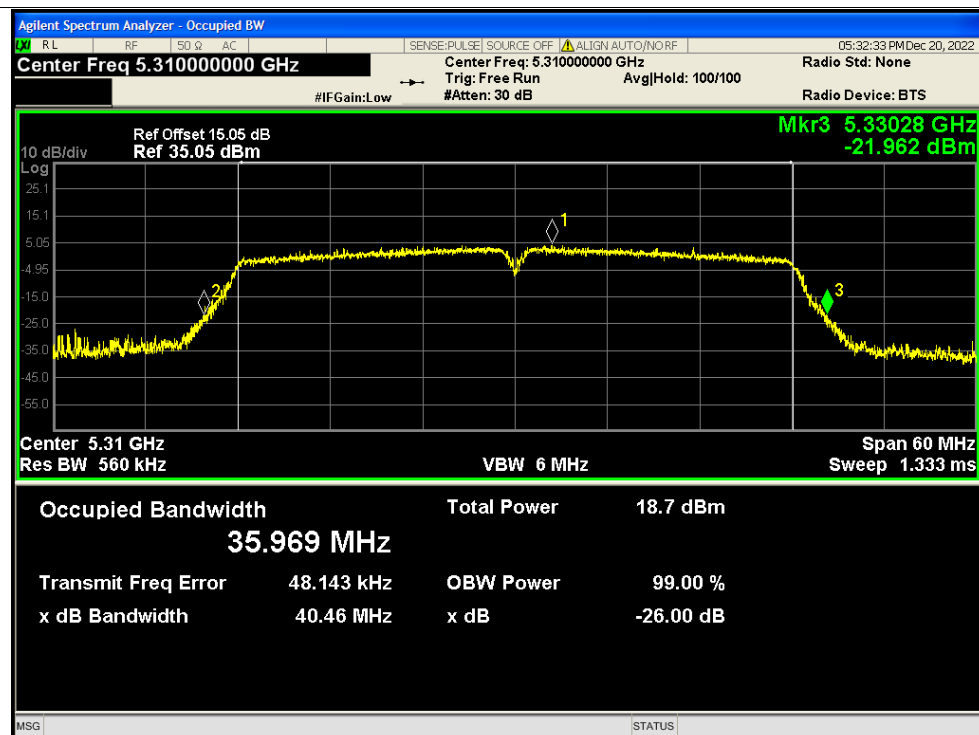




-26dB Bandwidth NVNT n40 5270MHz Ant1

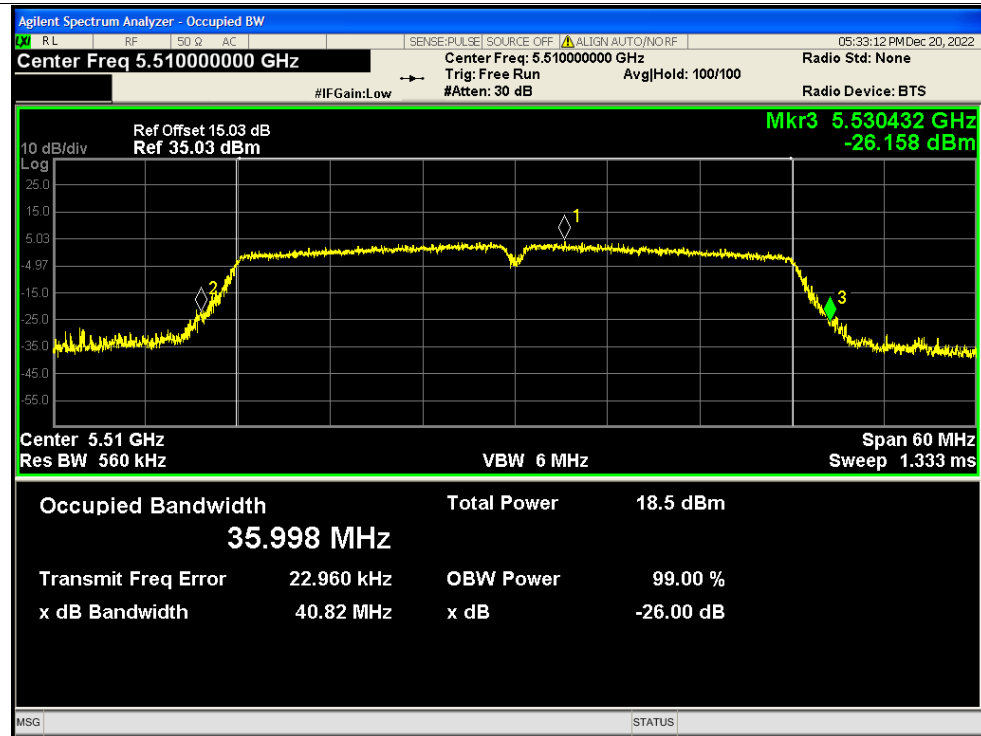


-26dB Bandwidth NVNT n40 5310MHz Ant1

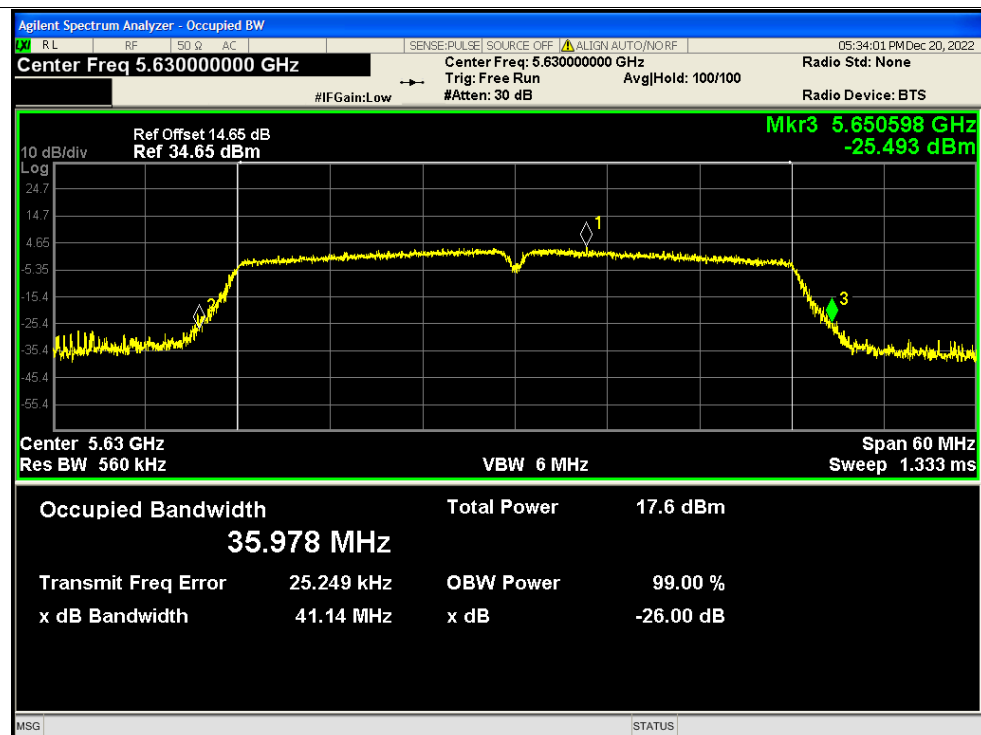




-26dB Bandwidth NVNT n40 5510MHz Ant1

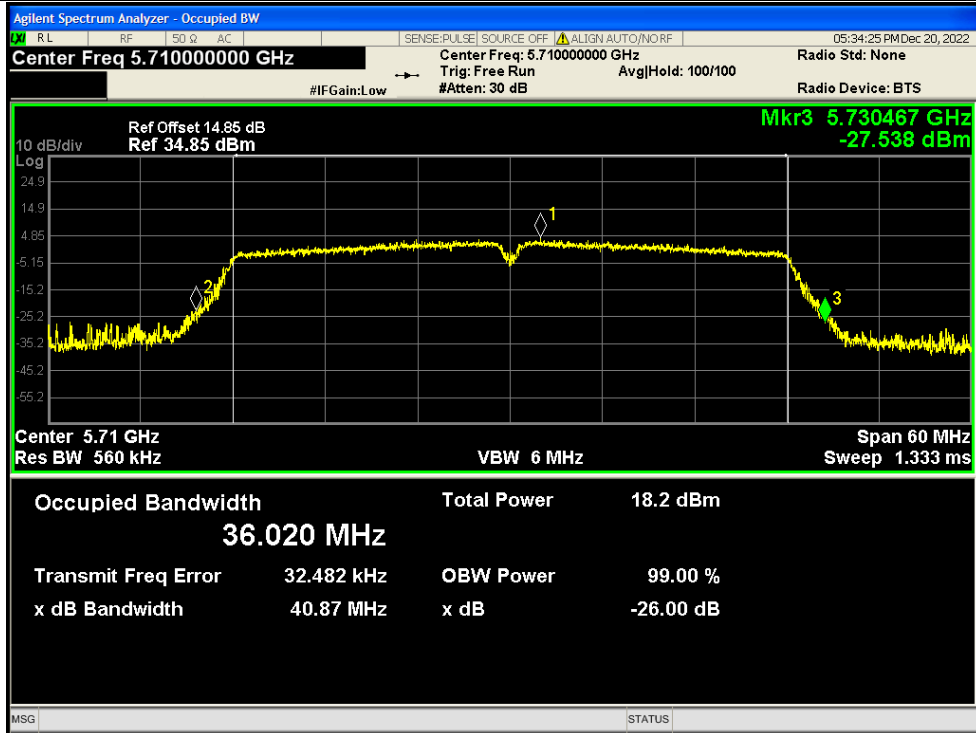


-26dB Bandwidth NVNT n40 5630MHz Ant1

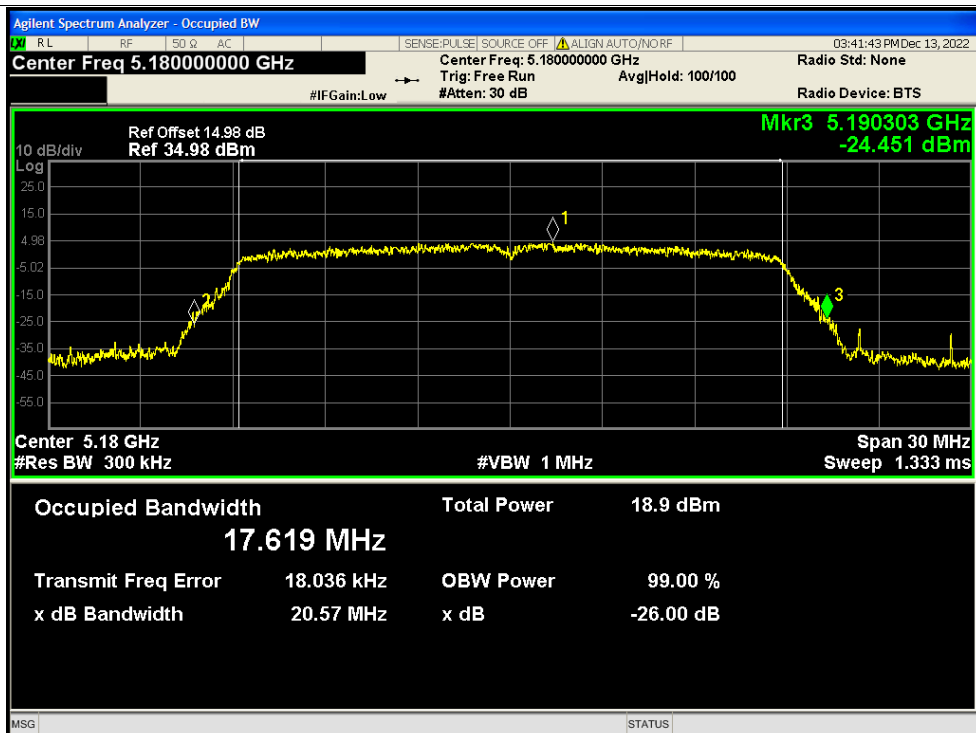




-26dB Bandwidth NVNT n40 5710MHz Ant1

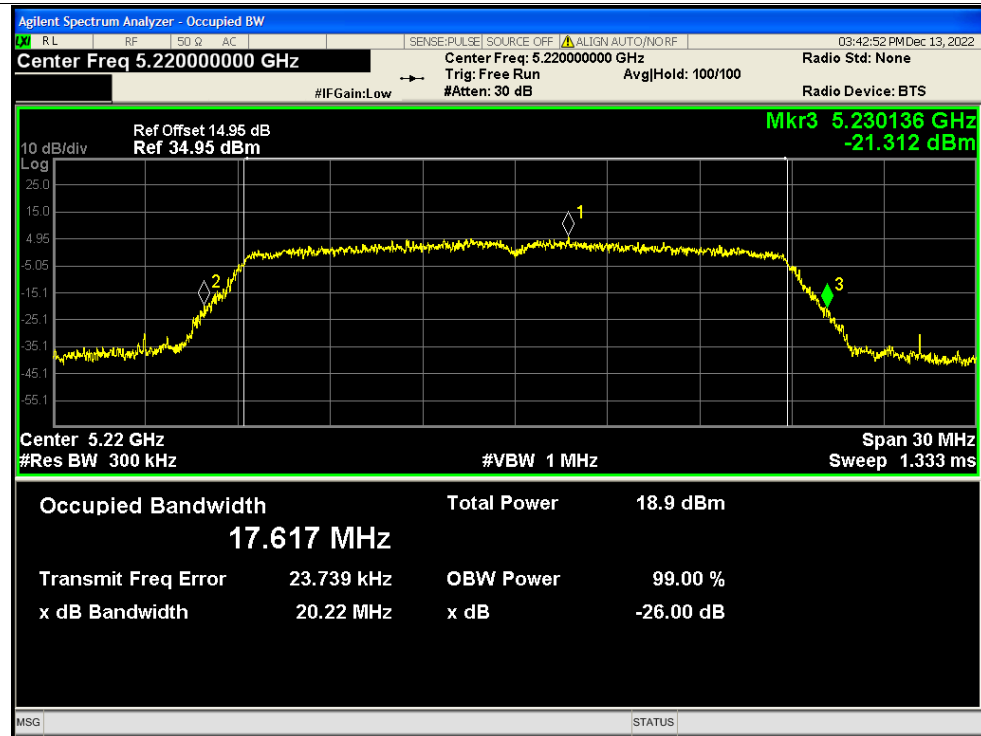


-26dB Bandwidth NVNT ac20 5180MHz Ant1

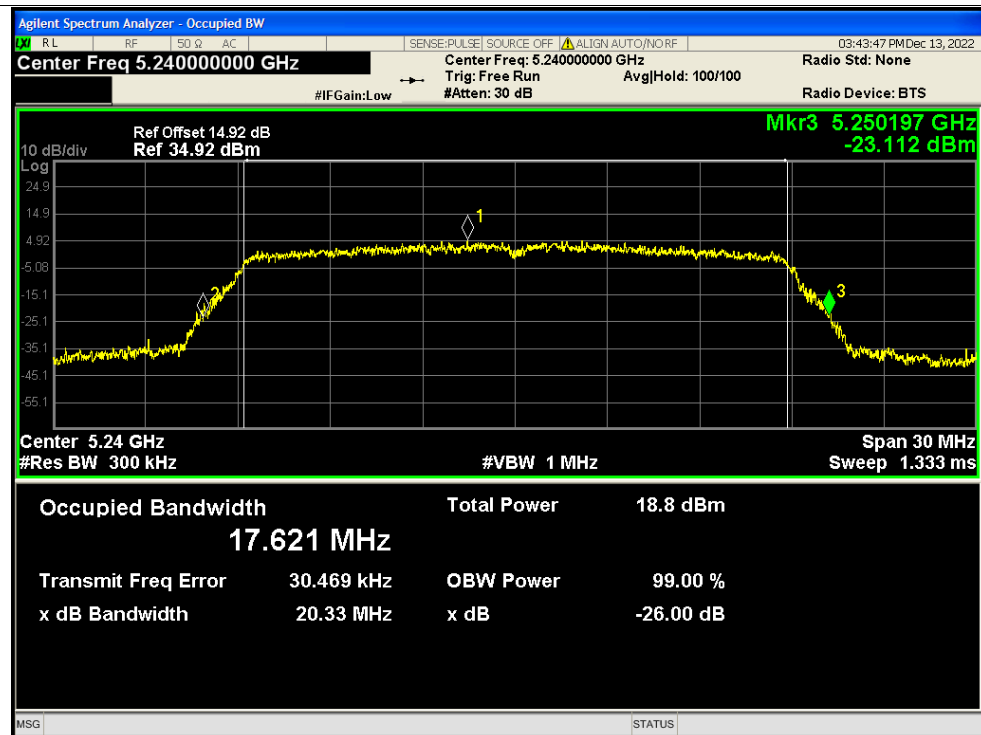




-26dB Bandwidth NVNT ac20 5220MHz Ant1

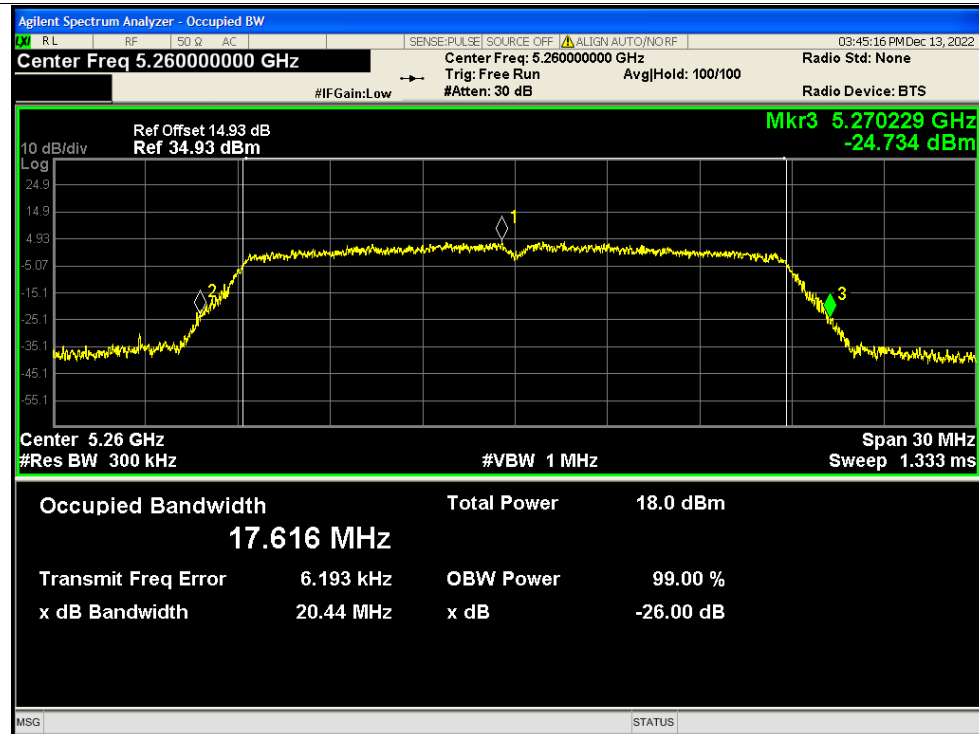


-26dB Bandwidth NVNT ac20 5240MHz Ant1

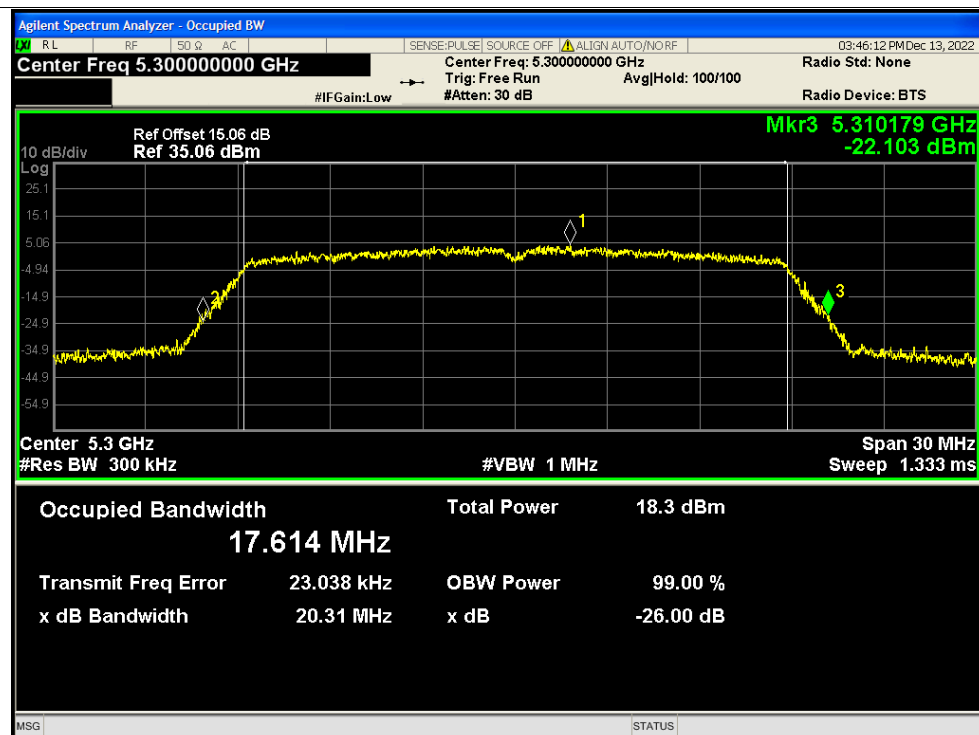




-26dB Bandwidth NVNT ac20 5260MHz Ant1

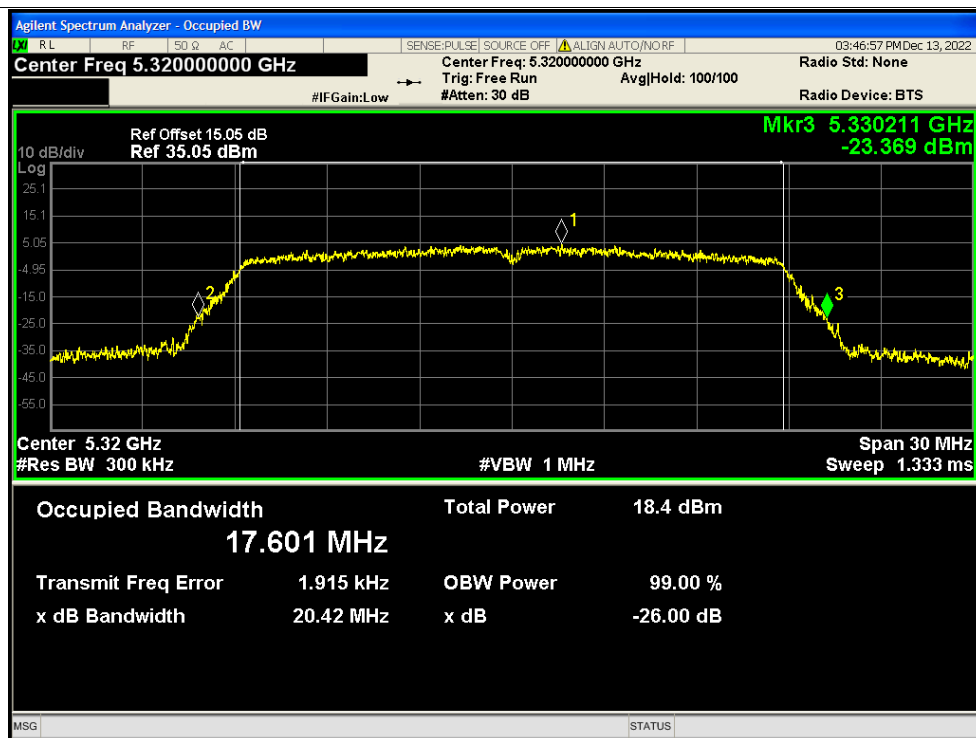


-26dB Bandwidth NVNT ac20 5300MHz Ant1

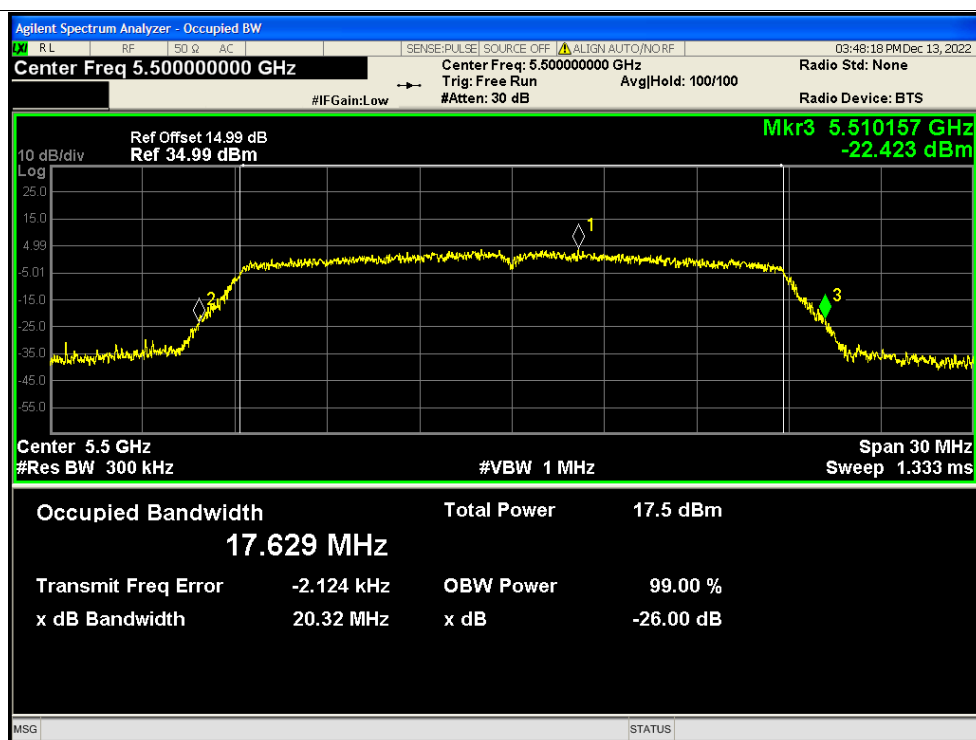




-26dB Bandwidth NVNT ac20 5320MHz Ant1

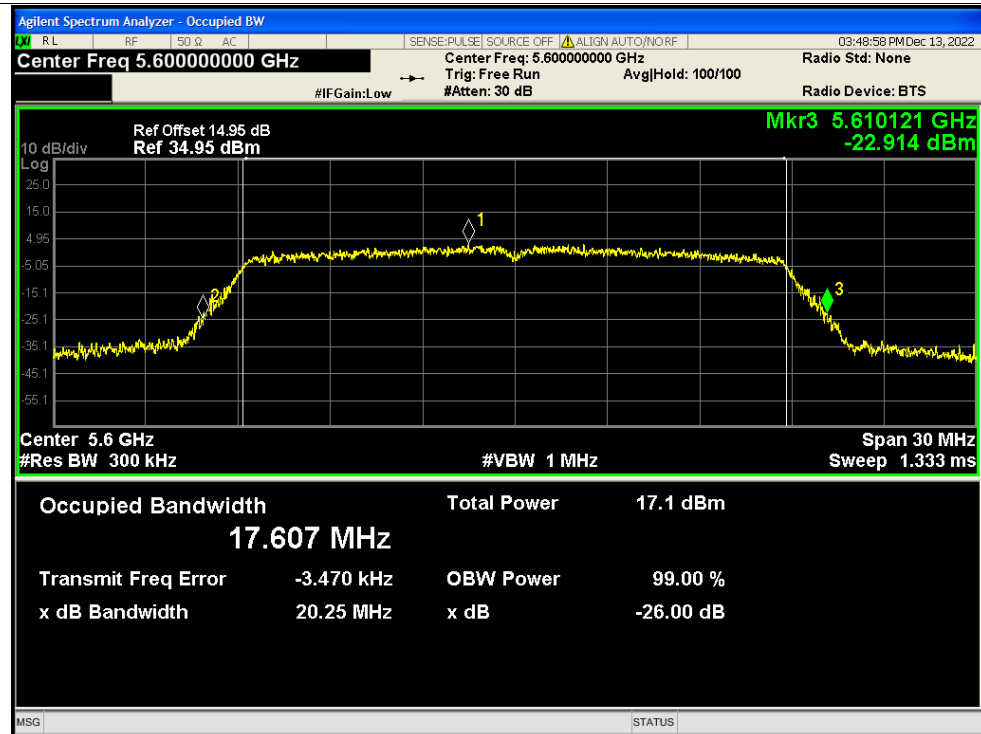


-26dB Bandwidth NVNT ac20 5500MHz Ant1

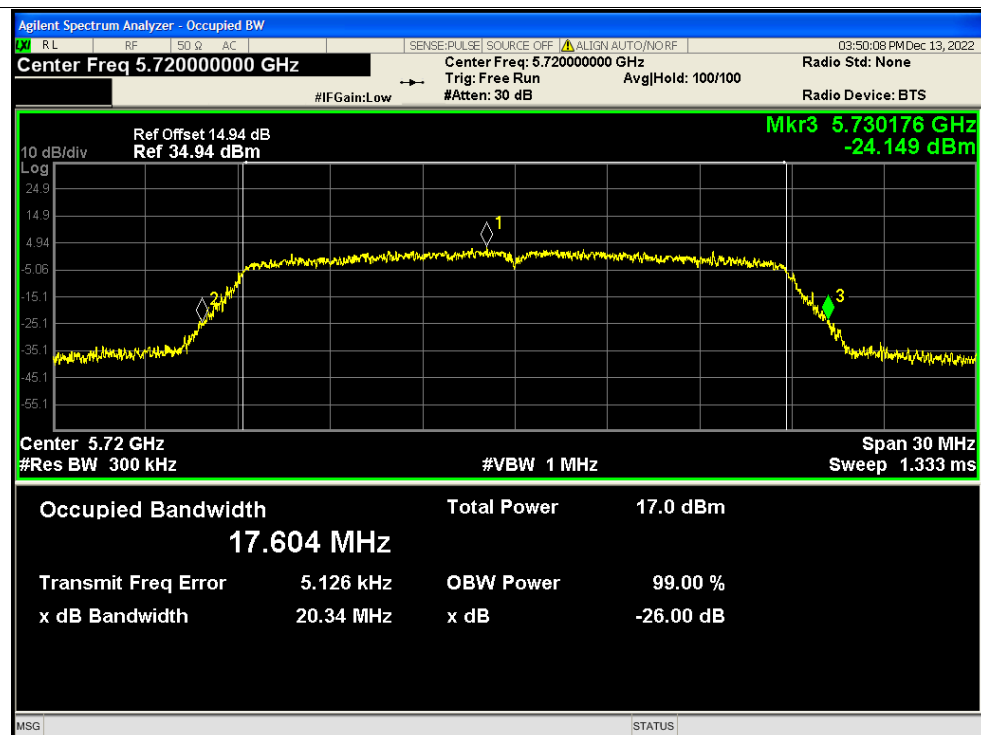


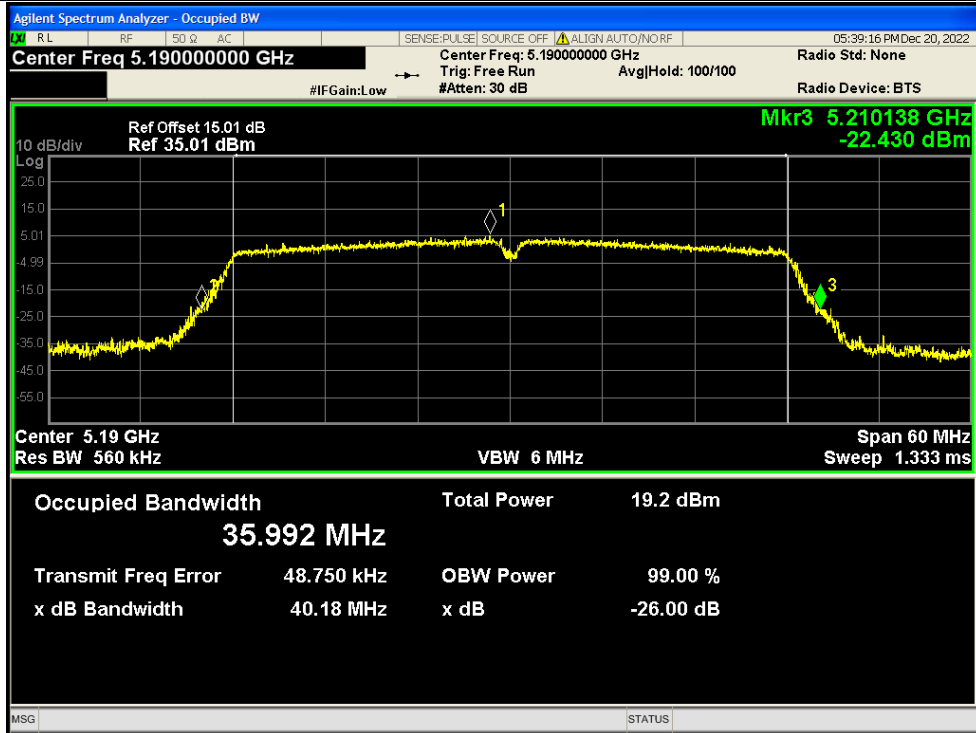
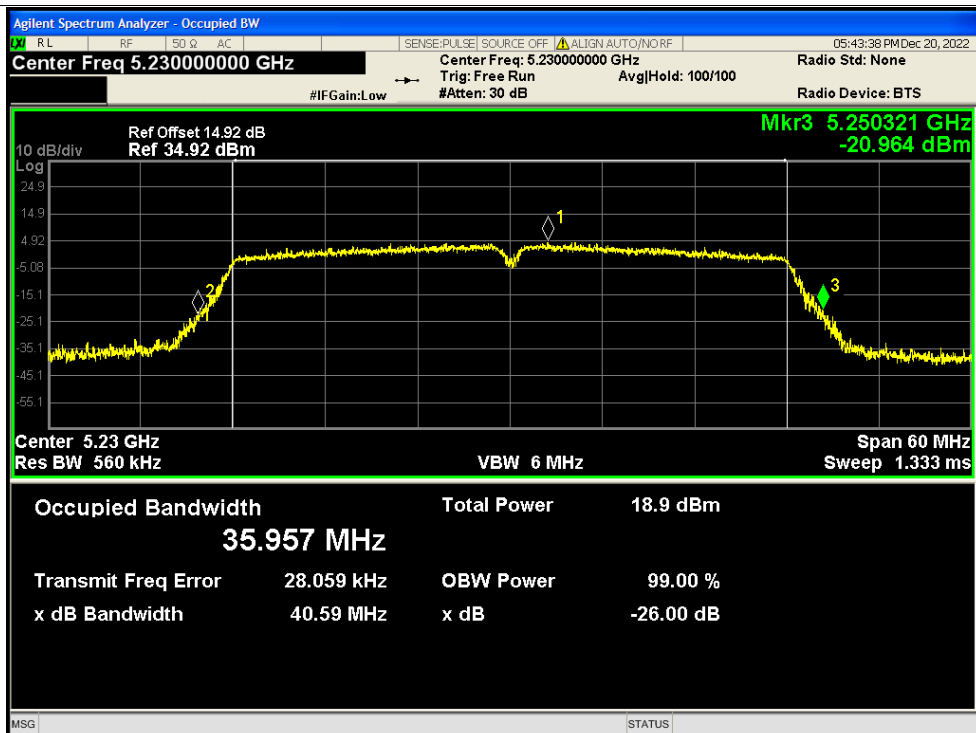


-26dB Bandwidth NVNT ac20 5600MHz Ant1



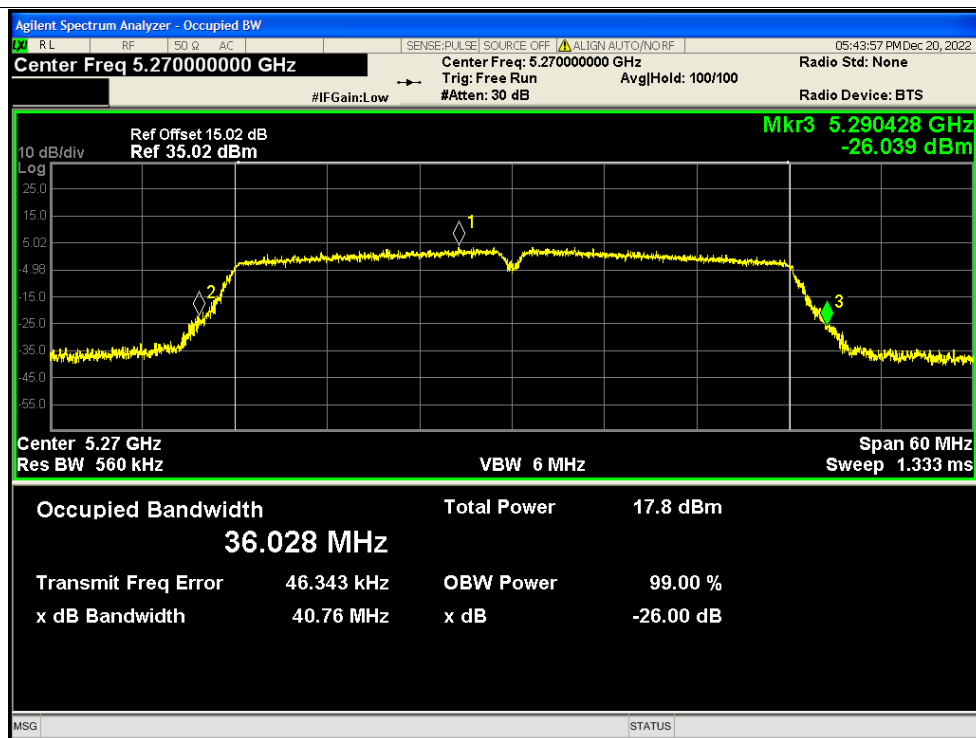
-26dB Bandwidth NVNT ac20 5720MHz Ant1



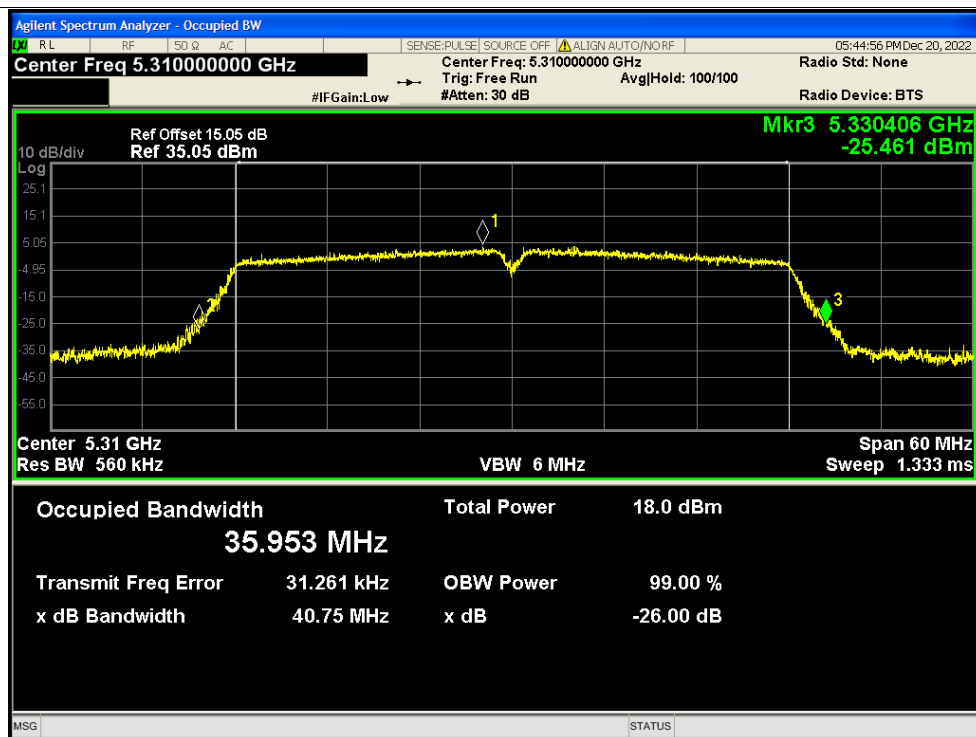
**-26dB Bandwidth NVNT ac40 5190MHz Ant1****-26dB Bandwidth NVNT ac40 5230MHz Ant1**



-26dB Bandwidth NVNT ac40 5270MHz Ant1

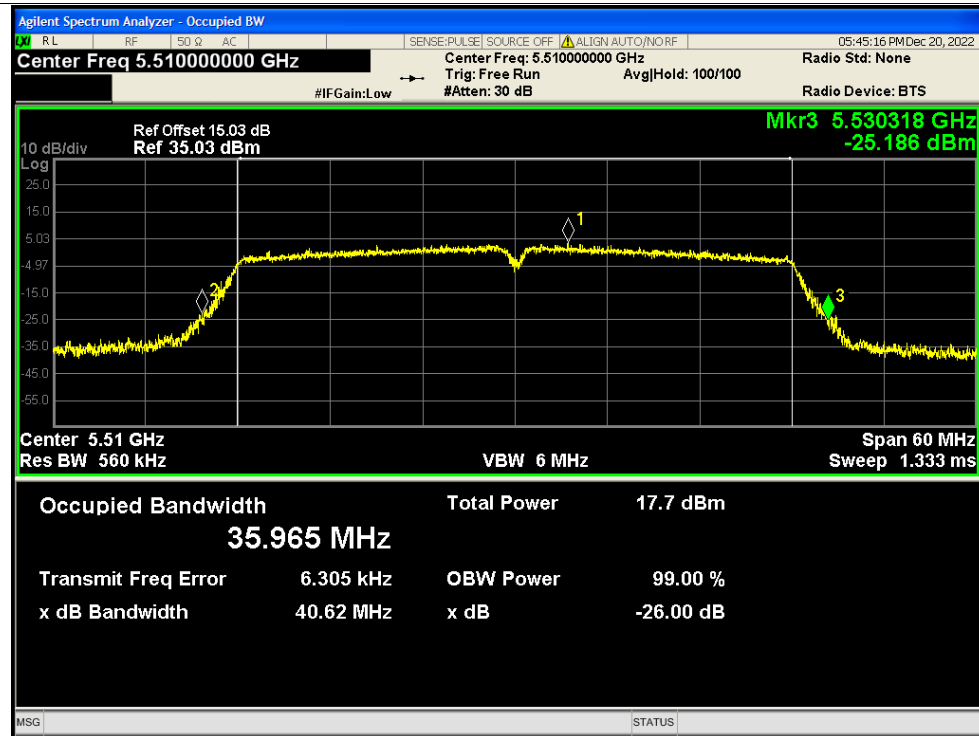


-26dB Bandwidth NVNT ac40 5310MHz Ant1

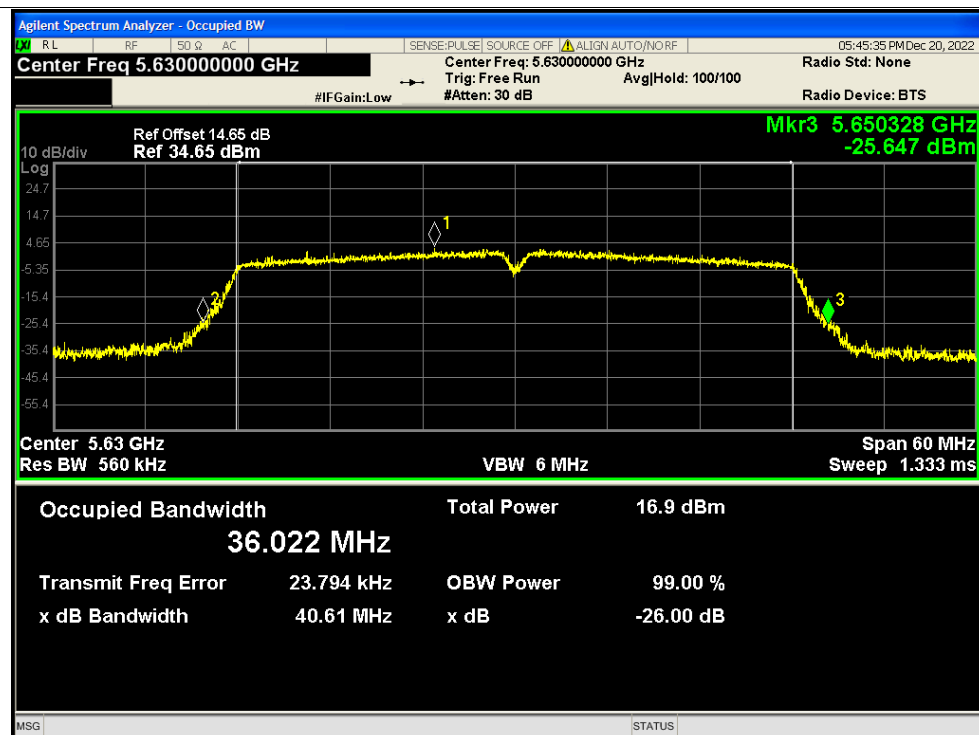


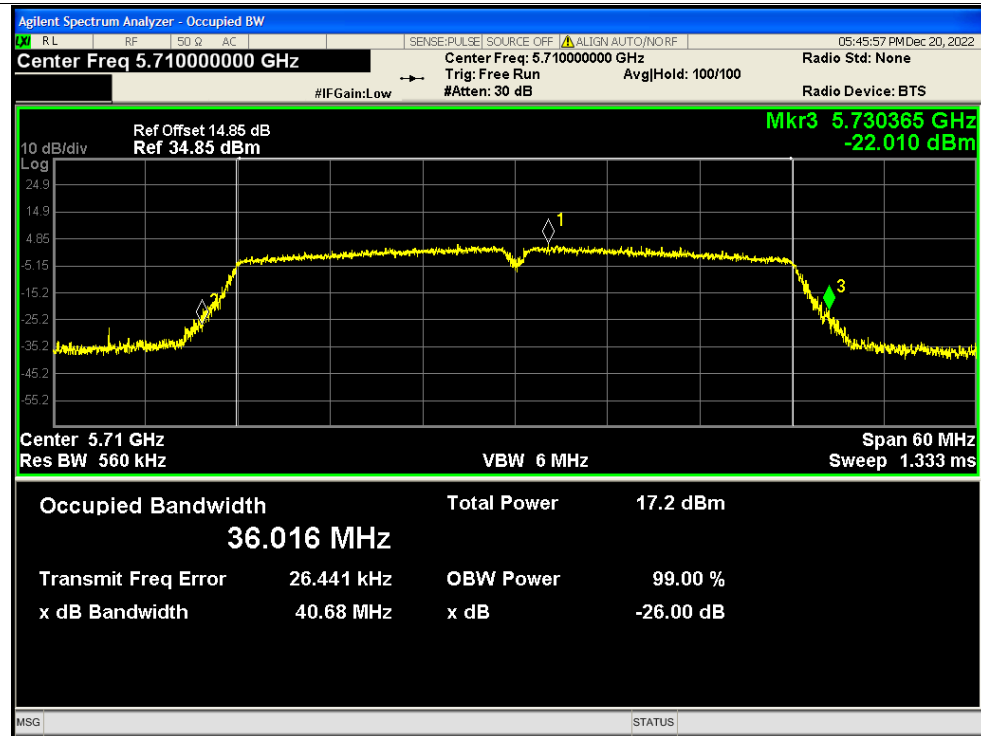
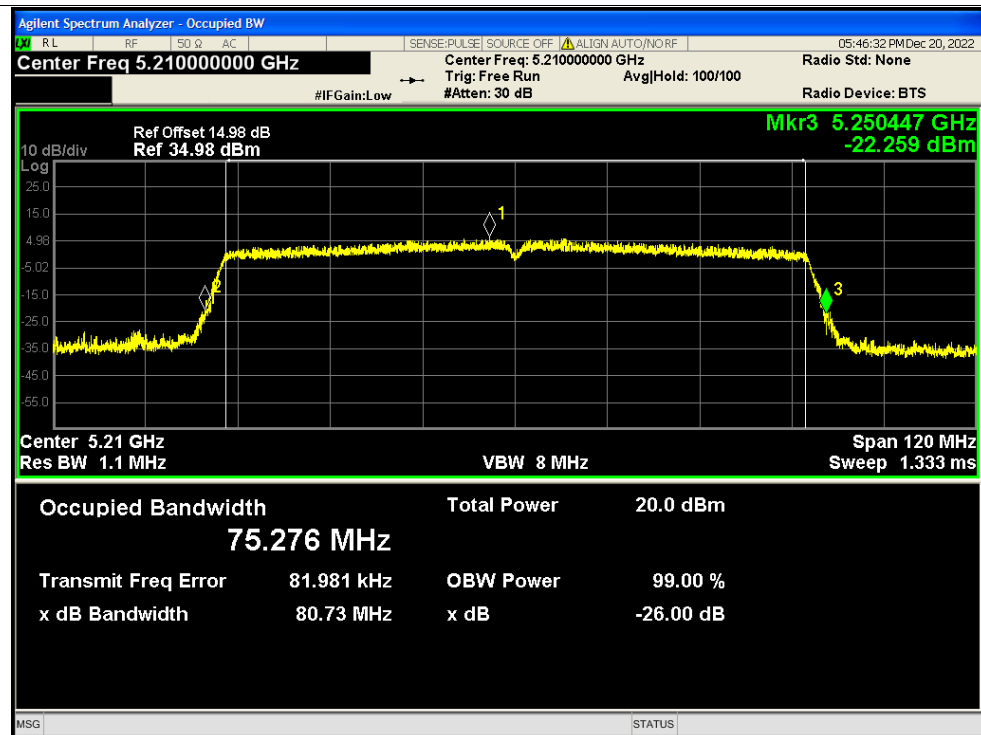


-26dB Bandwidth NVNT ac40 5510MHz Ant1



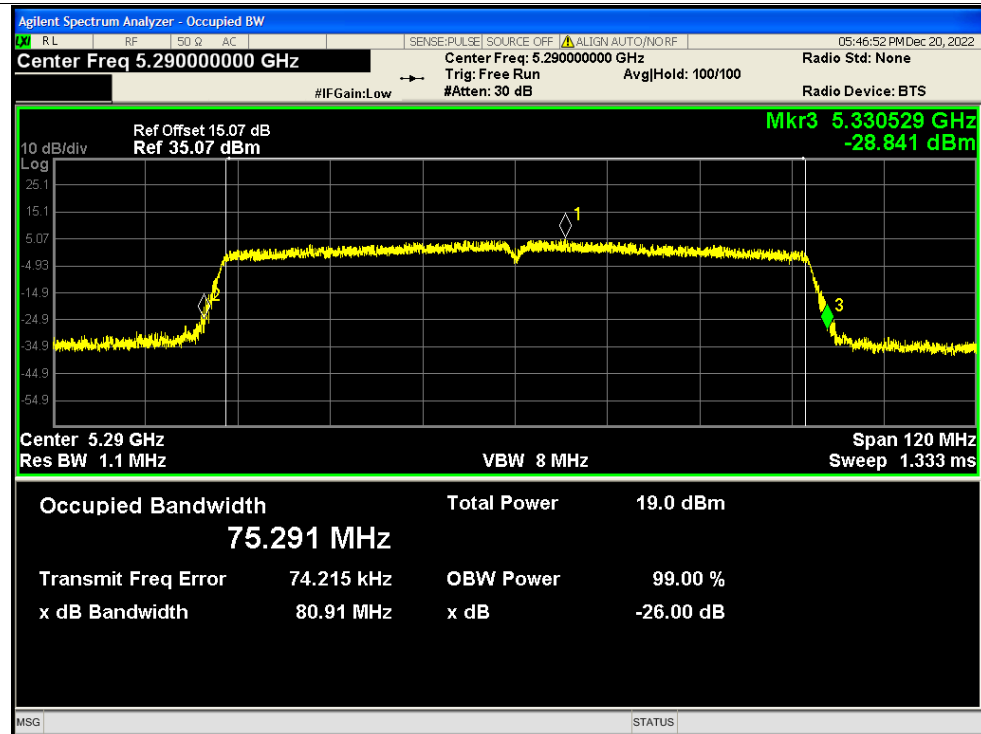
-26dB Bandwidth NVNT ac40 5630MHz Ant1



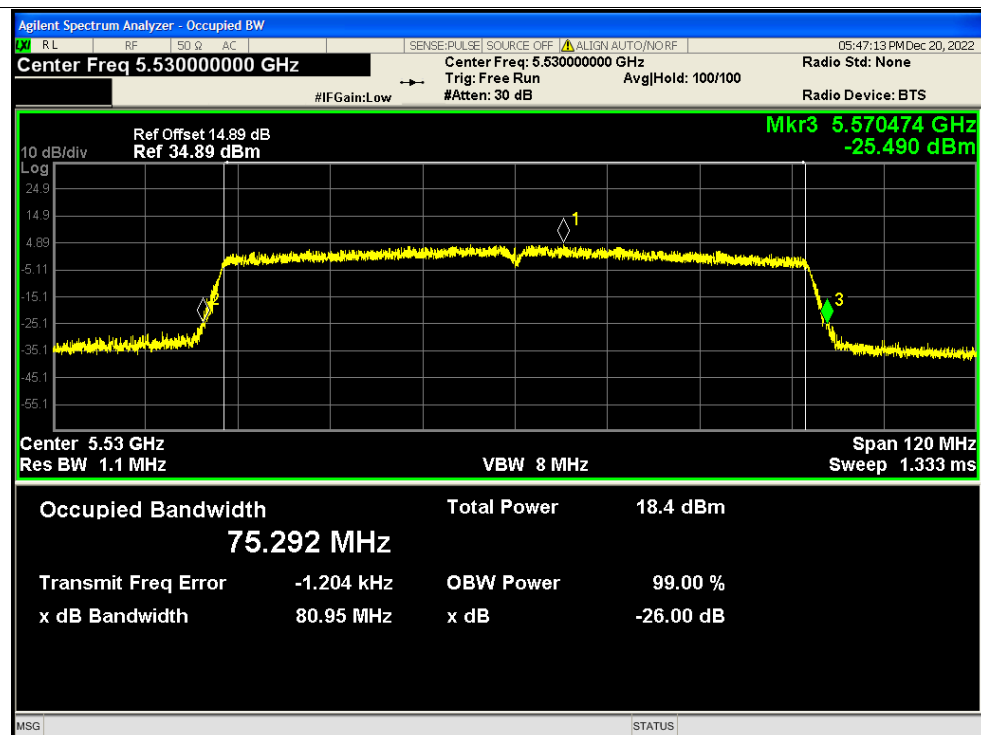
**-26dB Bandwidth NVNT ac40 5710MHz Ant1****-26dB Bandwidth NVNT ac80 5210MHz Ant1**



-26dB Bandwidth NVNT ac80 5290MHz Ant1

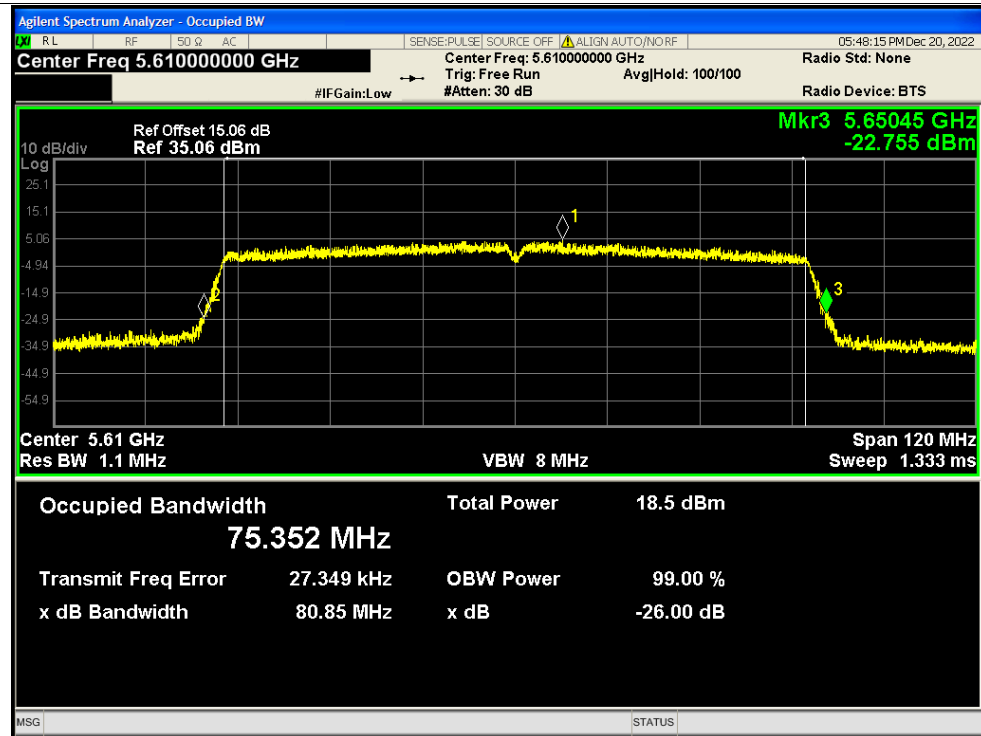


-26dB Bandwidth NVNT ac80 5530MHz Ant1

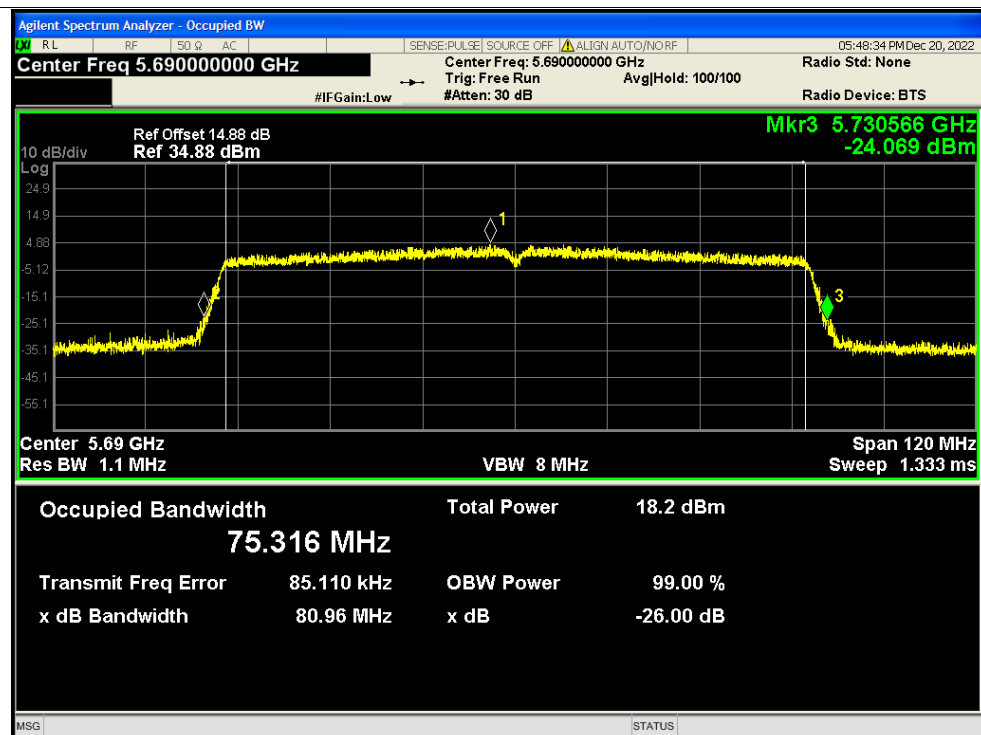




-26dB Bandwidth NVNT ac80 5610MHz Ant1



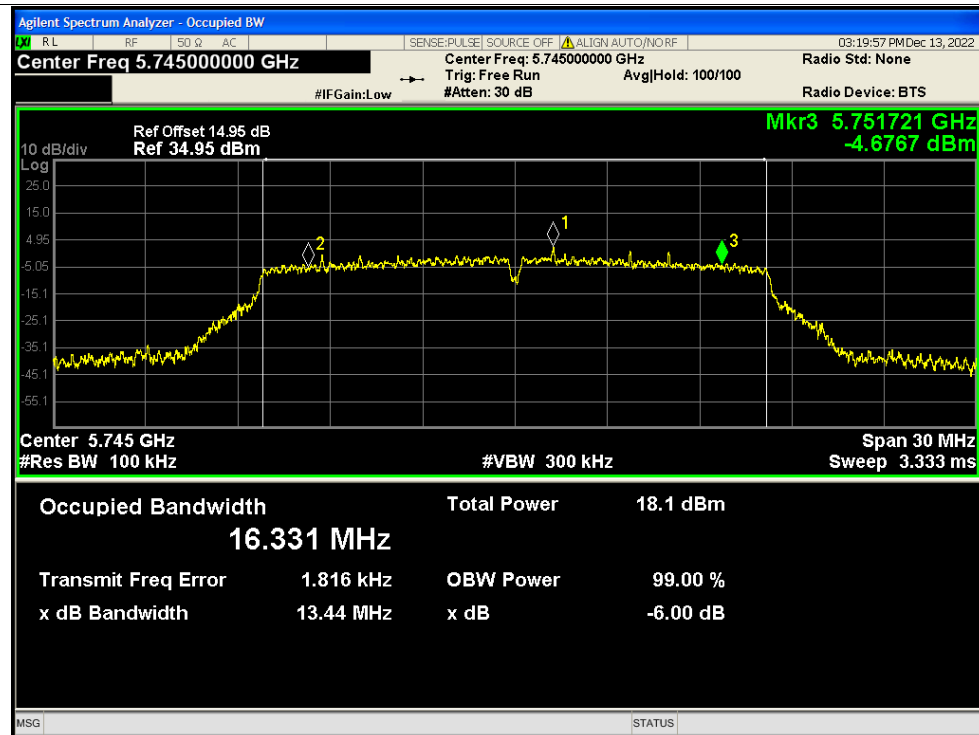
-26dB Bandwidth NVNT ac80 5690MHz Ant1



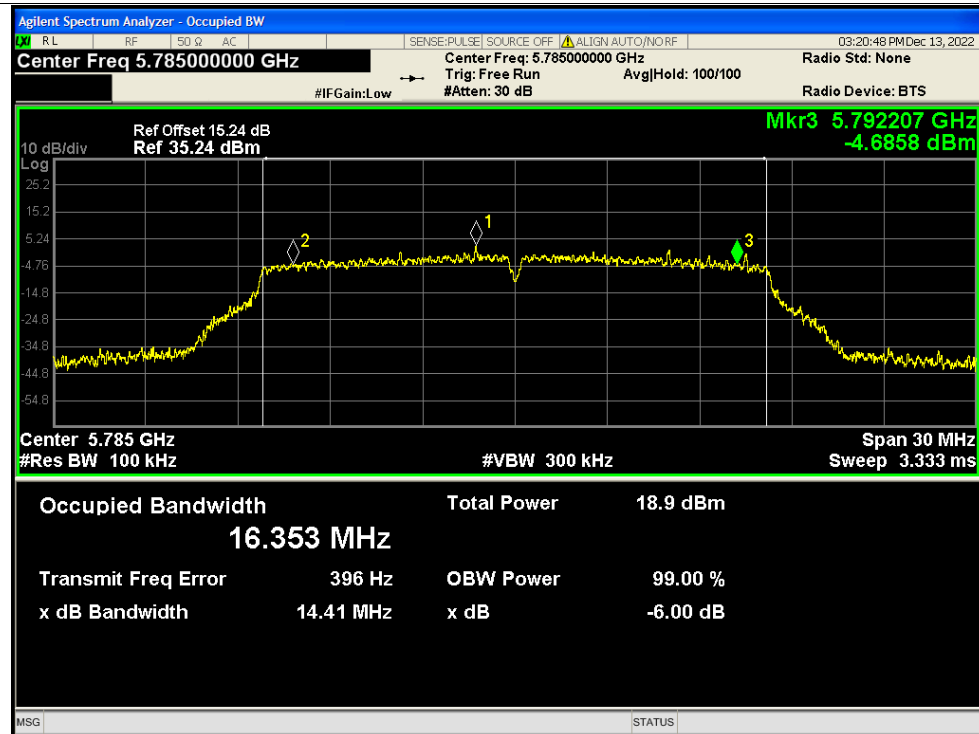


Test Graphs

-6dB Bandwidth NVNT a 5745MHz Ant1

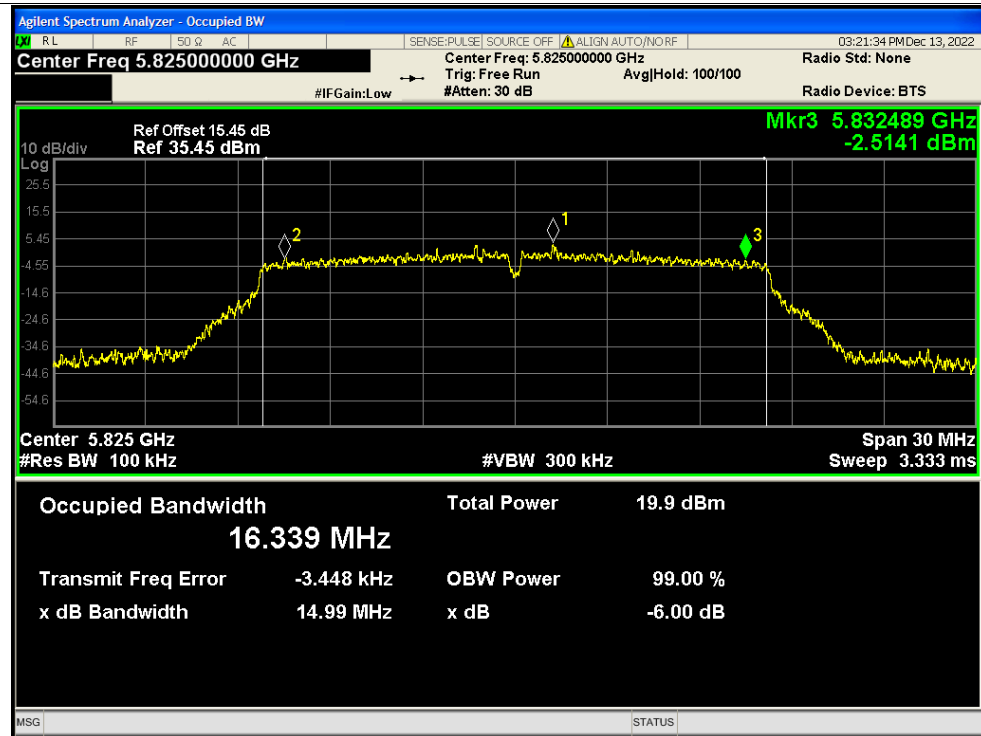


-6dB Bandwidth NVNT a 5785MHz Ant1

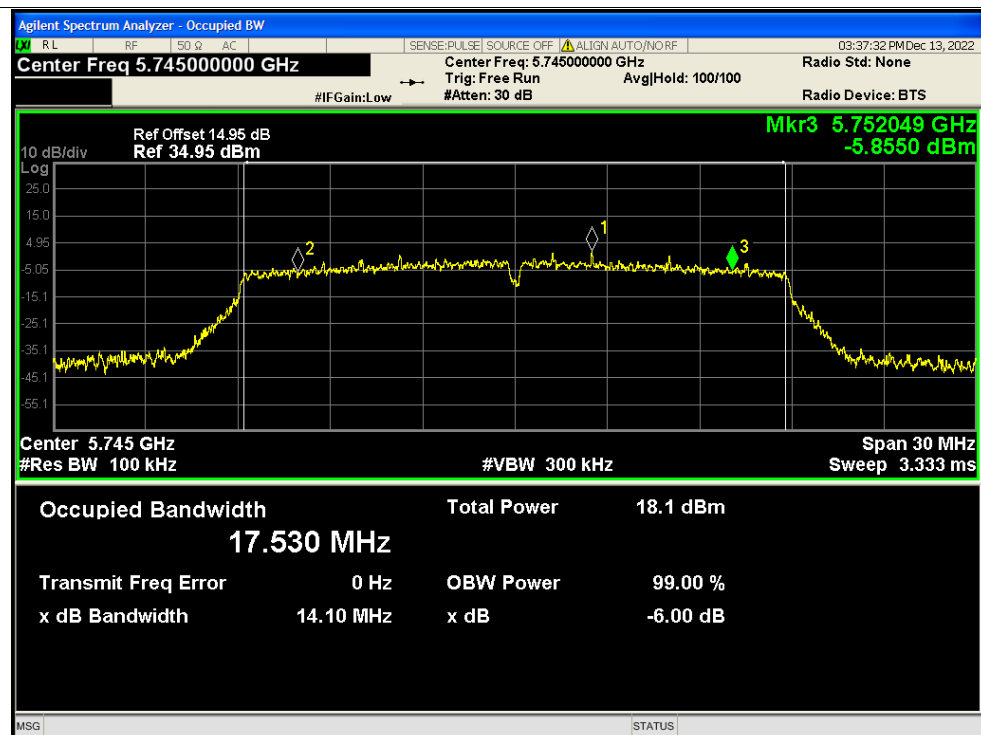




-6dB Bandwidth NVNT a 5825MHz Ant1

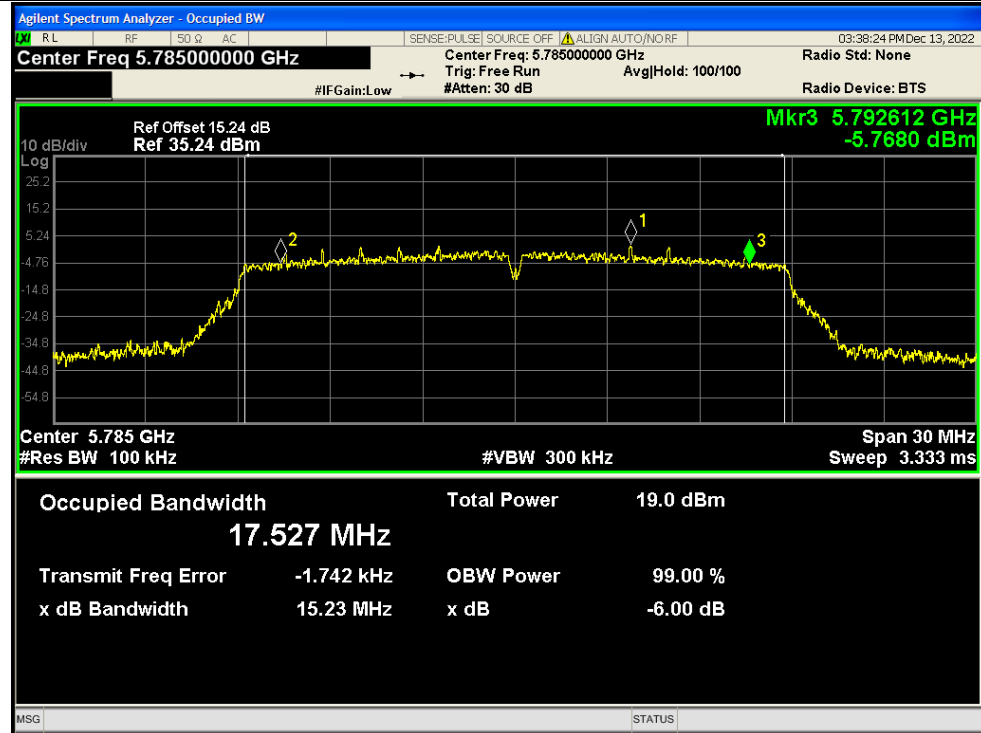


-6dB Bandwidth NVNT n20 5745MHz Ant1

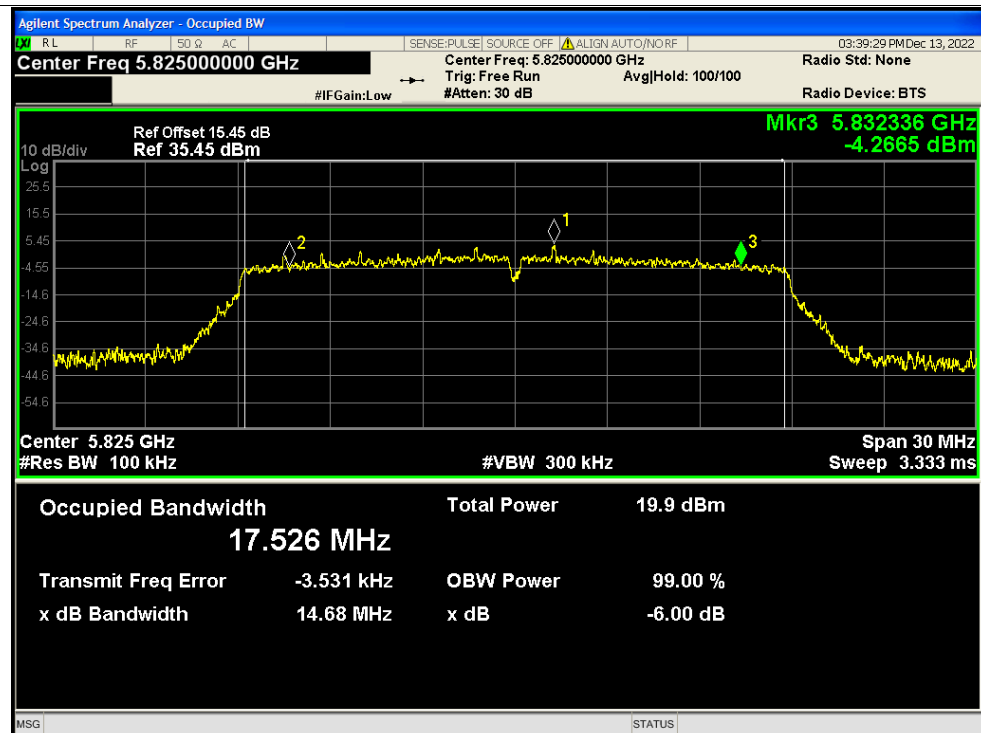




-6dB Bandwidth NVNT n20 5785MHz Ant1

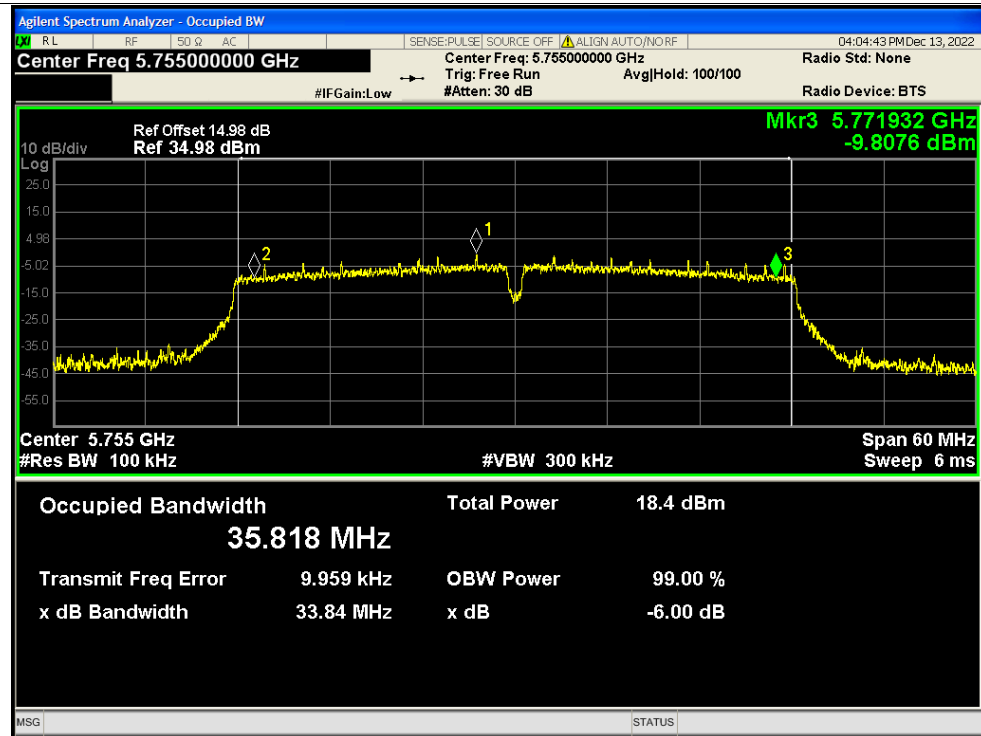


-6dB Bandwidth NVNT n20 5825MHz Ant1

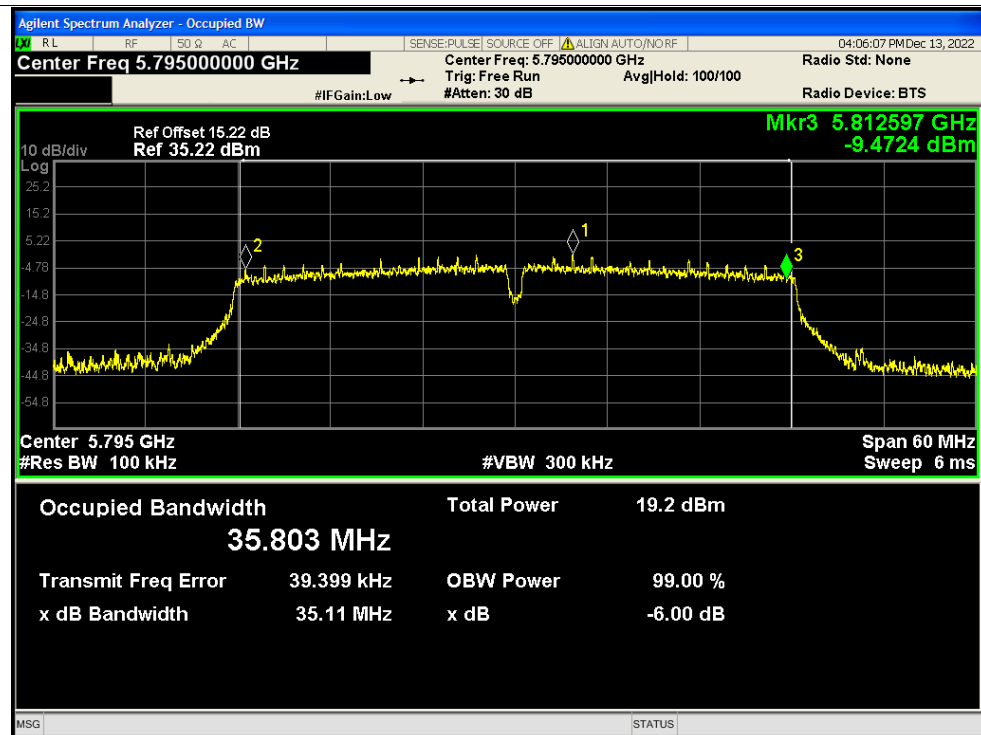




-6dB Bandwidth NVNT n40 5755MHz Ant1

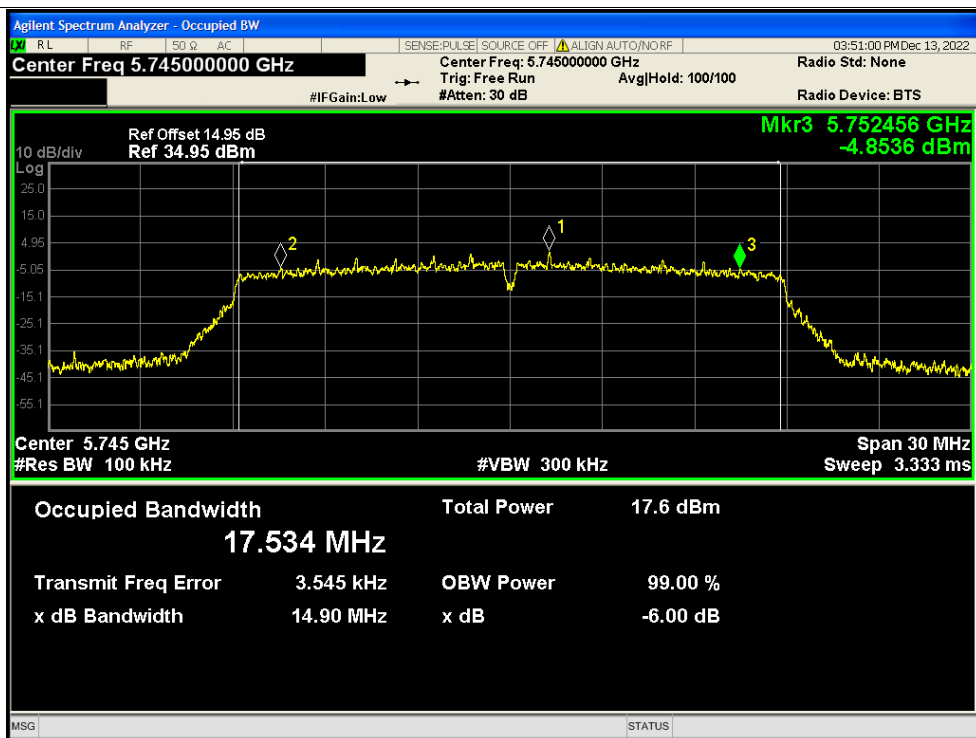


-6dB Bandwidth NVNT n40 5795MHz Ant1

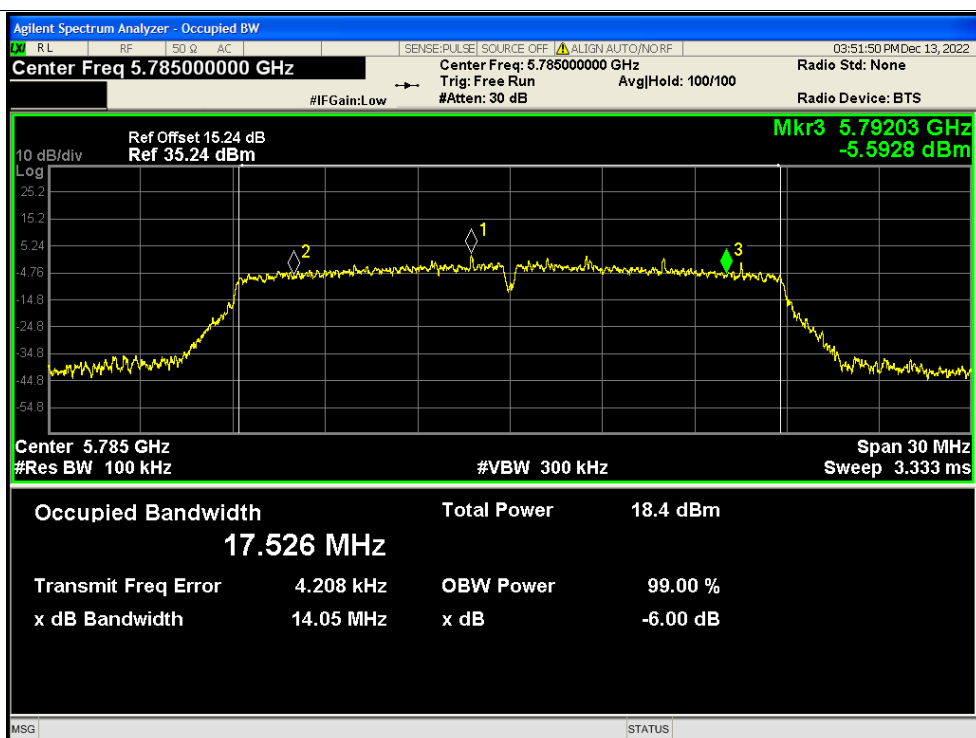


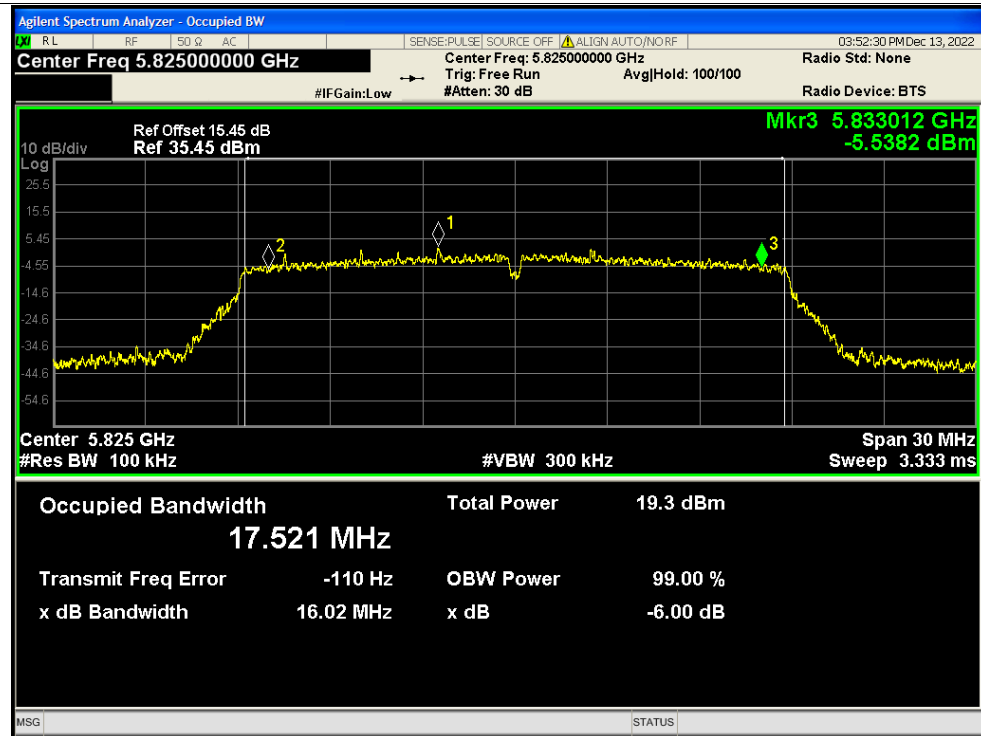
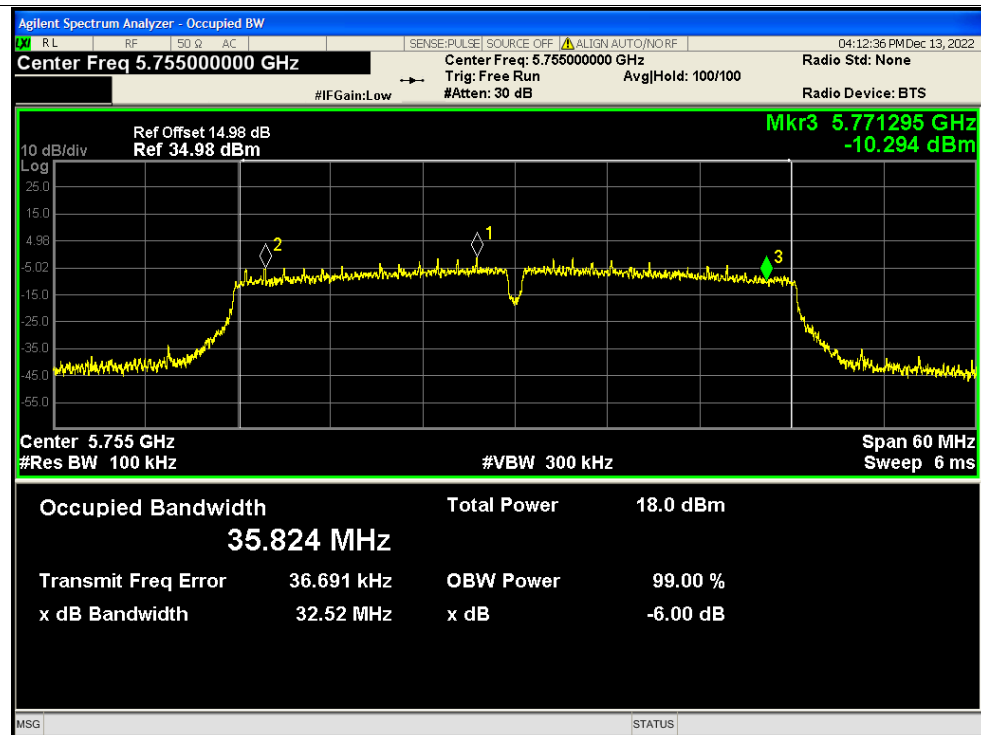


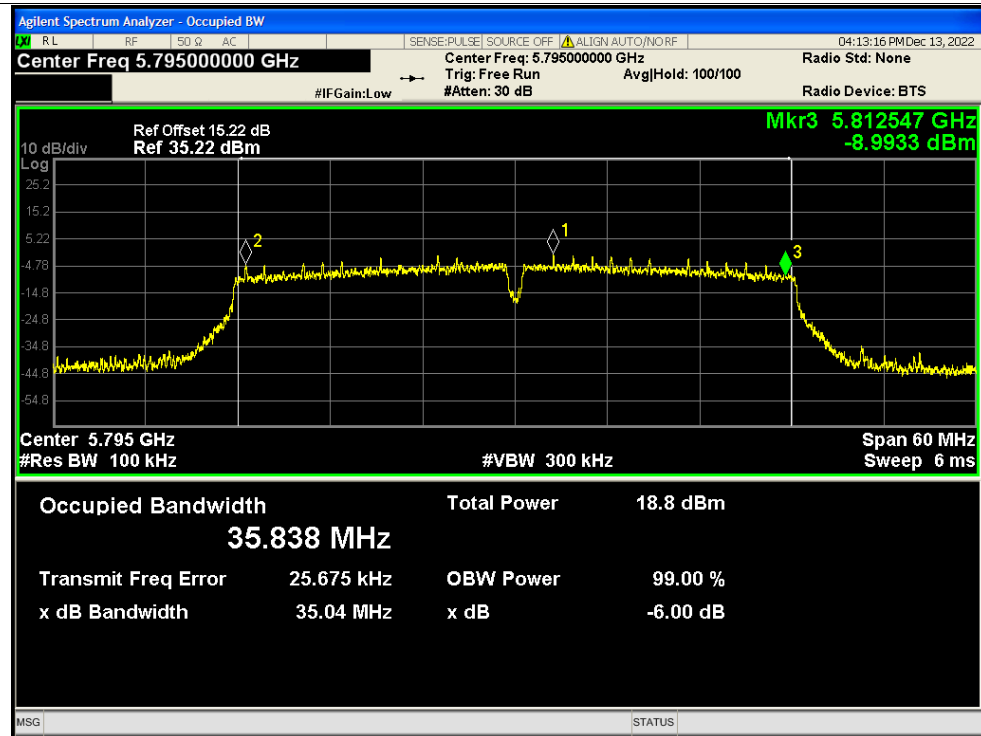
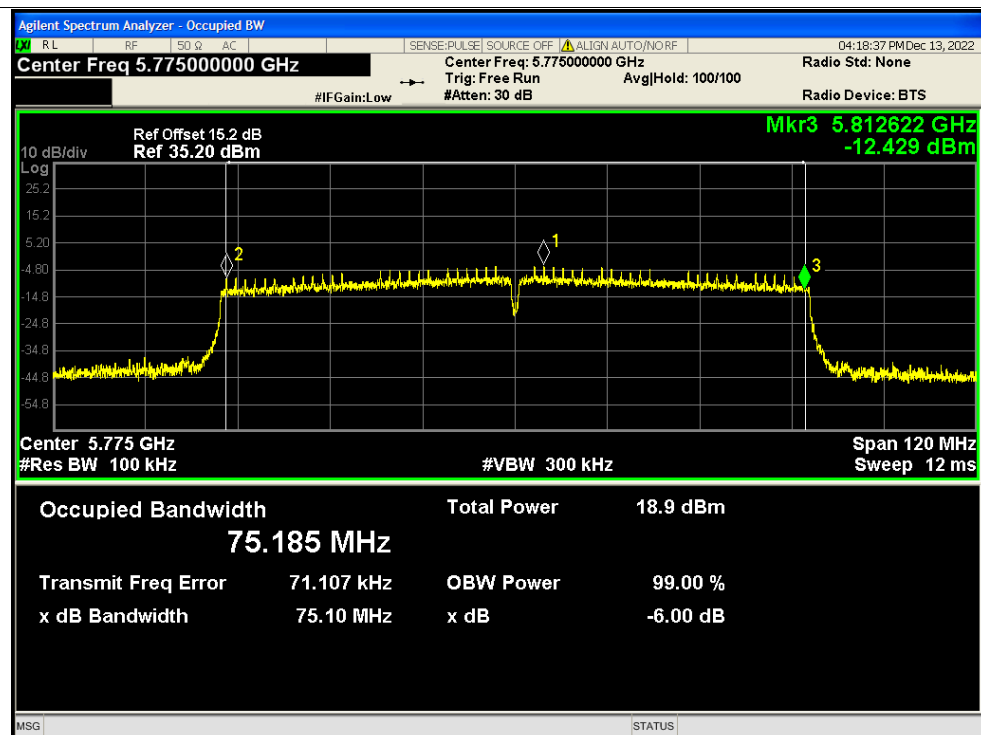
-6dB Bandwidth NVNT ac20 5745MHz Ant1



-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	4.12	0.18	4.3	11	Pass
NVNT	a	5220	Ant1	4.27	0.12	4.39	11	Pass
NVNT	a	5240	Ant1	4.07	0.12	4.19	11	Pass
NVNT	a	5260	Ant1	2.96	0.12	3.08	11	Pass
NVNT	a	5300	Ant1	3.2	0.12	3.32	11	Pass
NVNT	a	5320	Ant1	3.12	0.12	3.24	11	Pass
NVNT	a	5500	Ant1	2.35	0.12	2.47	11	Pass
NVNT	a	5600	Ant1	1.99	0.12	2.11	11	Pass
NVNT	a	5720	Ant1	2.12	0.18	2.3	11	Pass
NVNT	a	5745	Ant1	-0.4	0.18	-0.22	30	Pass
NVNT	a	5785	Ant1	0.19	0.12	0.31	30	Pass
NVNT	a	5825	Ant1	1.21	0.12	1.33	30	Pass
NVNT	n20	5180	Ant1	3.57	0.13	3.7	11	Pass
NVNT	n20	5220	Ant1	3.43	0.2	3.63	11	Pass
NVNT	n20	5240	Ant1	3.29	0.13	3.42	11	Pass
NVNT	n20	5260	Ant1	2.11	0.13	2.24	11	Pass
NVNT	n20	5300	Ant1	2.44	0.13	2.57	11	Pass
NVNT	n20	5320	Ant1	2.71	0.13	2.84	11	Pass
NVNT	n20	5500	Ant1	2.13	0.13	2.26	11	Pass
NVNT	n20	5600	Ant1	1.85	0.13	1.98	11	Pass
NVNT	n20	5720	Ant1	1.86	0.13	1.99	11	Pass
NVNT	n20	5745	Ant1	-0.74	0.13	-0.61	30	Pass
NVNT	n20	5785	Ant1	-0.04	0.13	0.09	30	Pass
NVNT	n20	5825	Ant1	0.69	0.13	0.82	30	Pass
NVNT	n40	5190	Ant1	0.42	0.39	0.81	11	Pass
NVNT	n40	5230	Ant1	0.33	0.26	0.59	11	Pass
NVNT	n40	5270	Ant1	-0.68	0.26	-0.42	11	Pass
NVNT	n40	5310	Ant1	-0.56	0.26	-0.3	11	Pass
NVNT	n40	5510	Ant1	-1.05	0.26	-0.79	11	Pass
NVNT	n40	5630	Ant1	-2.06	0.26	-1.8	11	Pass
NVNT	n40	5710	Ant1	-1.47	0.39	-1.08	11	Pass
NVNT	n40	5755	Ant1	-3.92	0.26	-3.66	30	Pass
NVNT	n40	5795	Ant1	-3.11	0.26	-2.85	30	Pass
NVNT	ac20	5180	Ant1	2.97	0.13	3.1	11	Pass



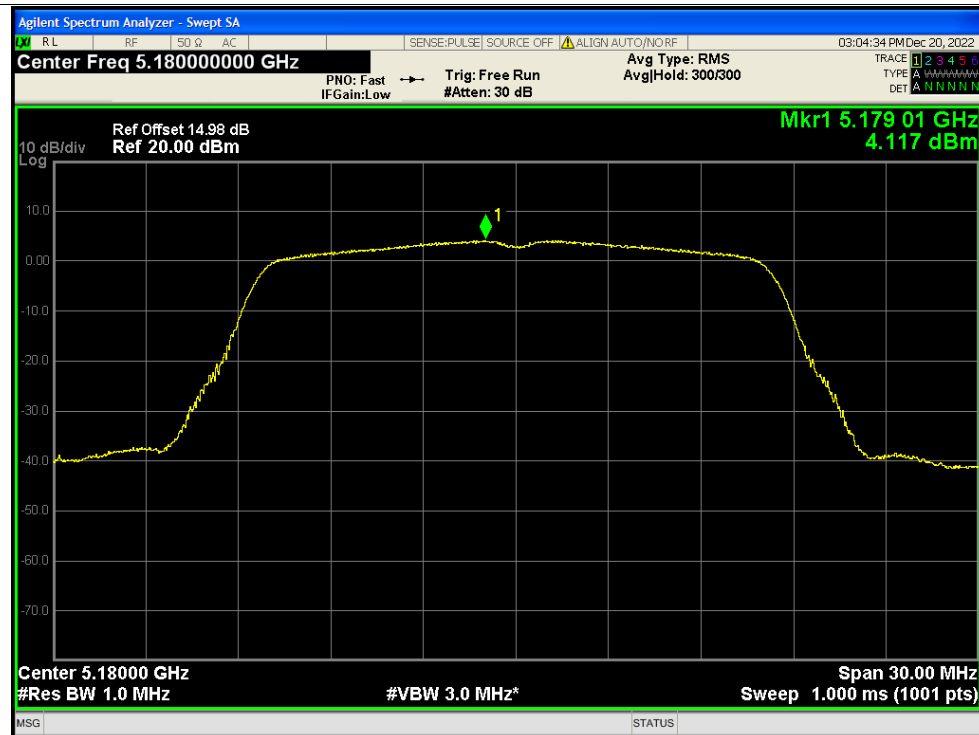
REPORT No.: SZ22110262W04

NVNT	ac20	5220	Ant1	2.69	0.2	2.89	11	Pass
NVNT	ac20	5240	Ant1	2.74	0.13	2.87	11	Pass
NVNT	ac20	5260	Ant1	1.89	0.13	2.02	11	Pass
NVNT	ac20	5300	Ant1	2.03	0.2	2.23	11	Pass
NVNT	ac20	5320	Ant1	2.04	0.13	2.17	11	Pass
NVNT	ac20	5500	Ant1	1.62	0.13	1.75	11	Pass
NVNT	ac20	5600	Ant1	1.49	0.13	1.62	11	Pass
NVNT	ac20	5720	Ant1	1.46	0.13	1.59	11	Pass
NVNT	ac20	5745	Ant1	-1.2	0.13	-1.07	30	Pass
NVNT	ac20	5785	Ant1	-0.44	0.13	-0.31	30	Pass
NVNT	ac20	5825	Ant1	0.52	0.13	0.65	30	Pass
NVNT	ac40	5190	Ant1	-0.18	0.26	0.08	11	Pass
NVNT	ac40	5230	Ant1	-0.41	0.26	-0.15	11	Pass
NVNT	ac40	5270	Ant1	-1.29	0.26	-1.03	11	Pass
NVNT	ac40	5310	Ant1	-1.07	0.26	-0.81	11	Pass
NVNT	ac40	5510	Ant1	-1.44	0.26	-1.18	11	Pass
NVNT	ac40	5630	Ant1	-2.31	0.26	-2.05	11	Pass
NVNT	ac40	5710	Ant1	-1.97	0.26	-1.71	11	Pass
NVNT	ac40	5755	Ant1	-4.25	0.26	-3.99	30	Pass
NVNT	ac40	5795	Ant1	-3.86	0.26	-3.6	30	Pass
NVNT	ac80	5210	Ant1	-2.14	0.48	-1.66	11	Pass
NVNT	ac80	5290	Ant1	-3.12	0.51	-2.61	11	Pass
NVNT	ac80	5530	Ant1	-3.51	0.51	-3	11	Pass
NVNT	ac80	5610	Ant1	-3.54	0.51	-3.03	11	Pass
NVNT	ac80	5690	Ant1	-3.3	0.51	-2.79	11	Pass
NVNT	ac80	5775	Ant1	-4.97	0.48	-4.49	30	Pass

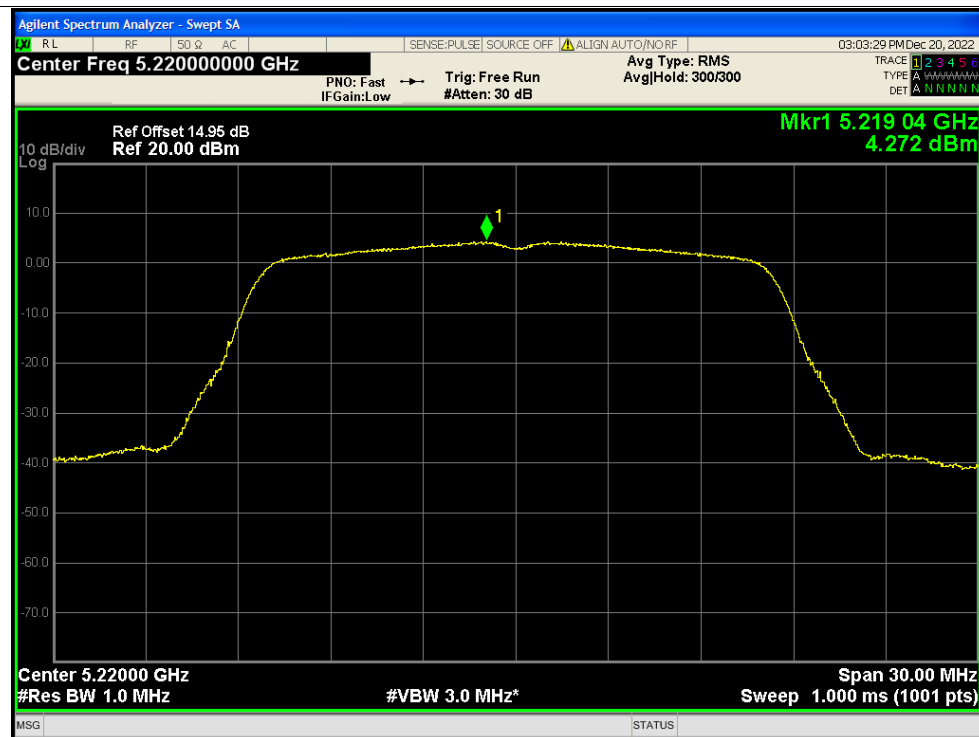


Test Graphs

PSD NVNT a 5180MHz Ant1

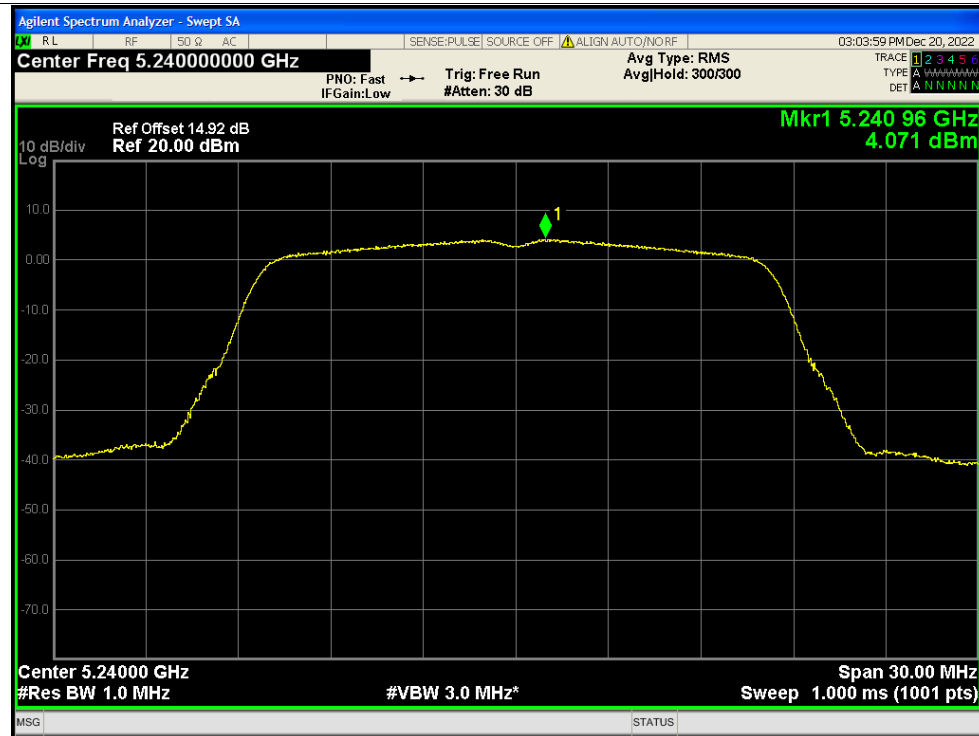


PSD NVNT a 5220MHz Ant1

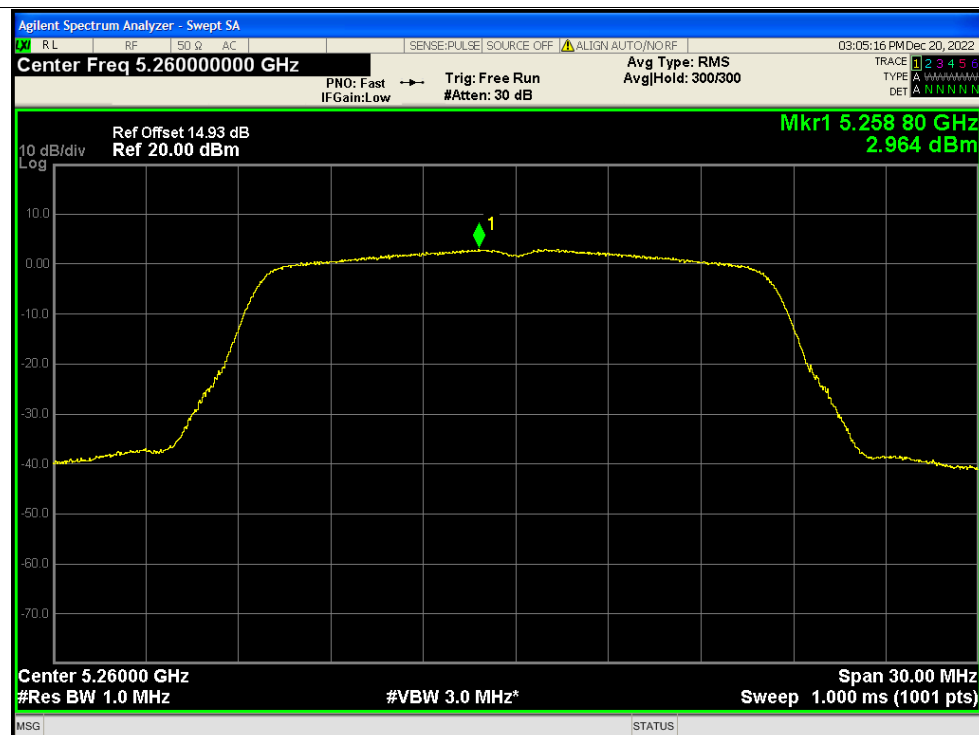




PSD NVNT a 5240MHz Ant1

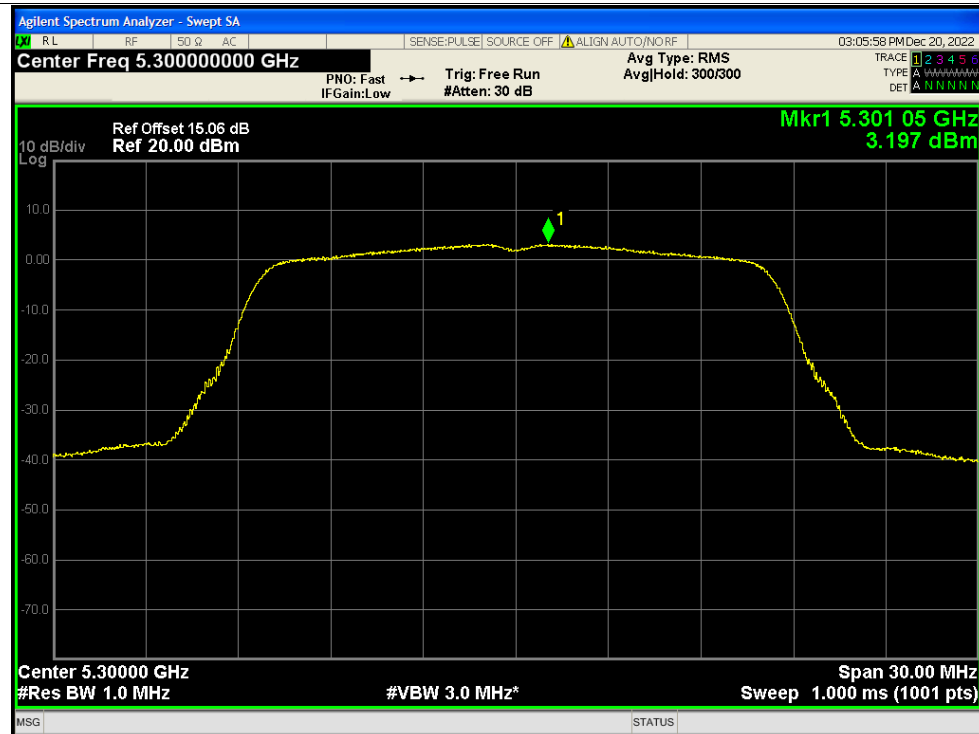


PSD NVNT a 5260MHz Ant1

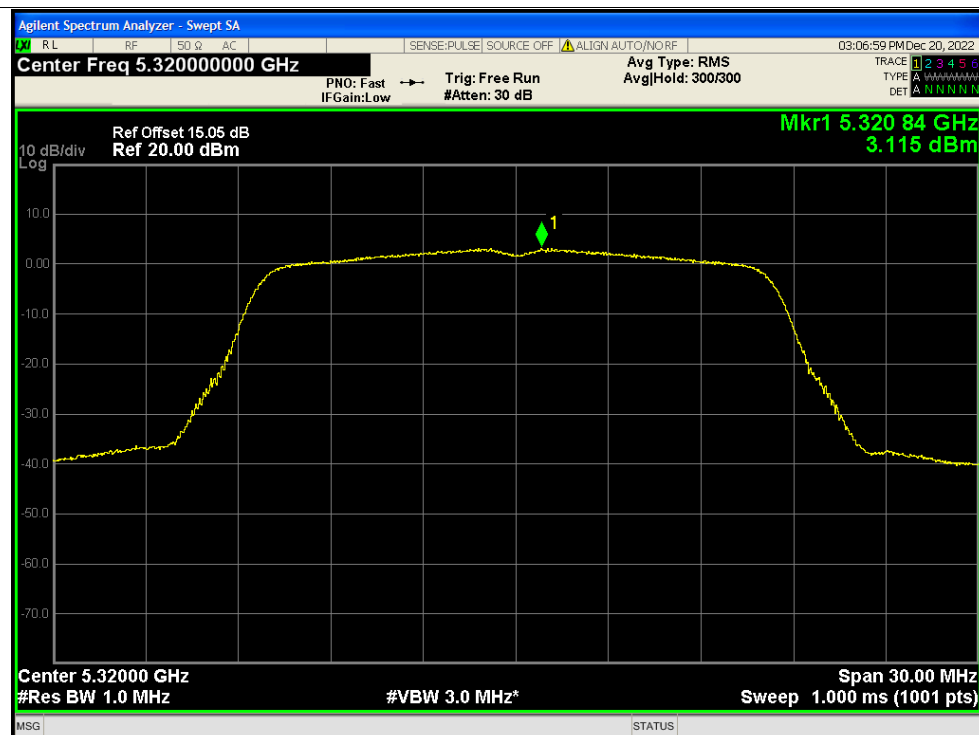




PSD NVNT a 5300MHz Ant1

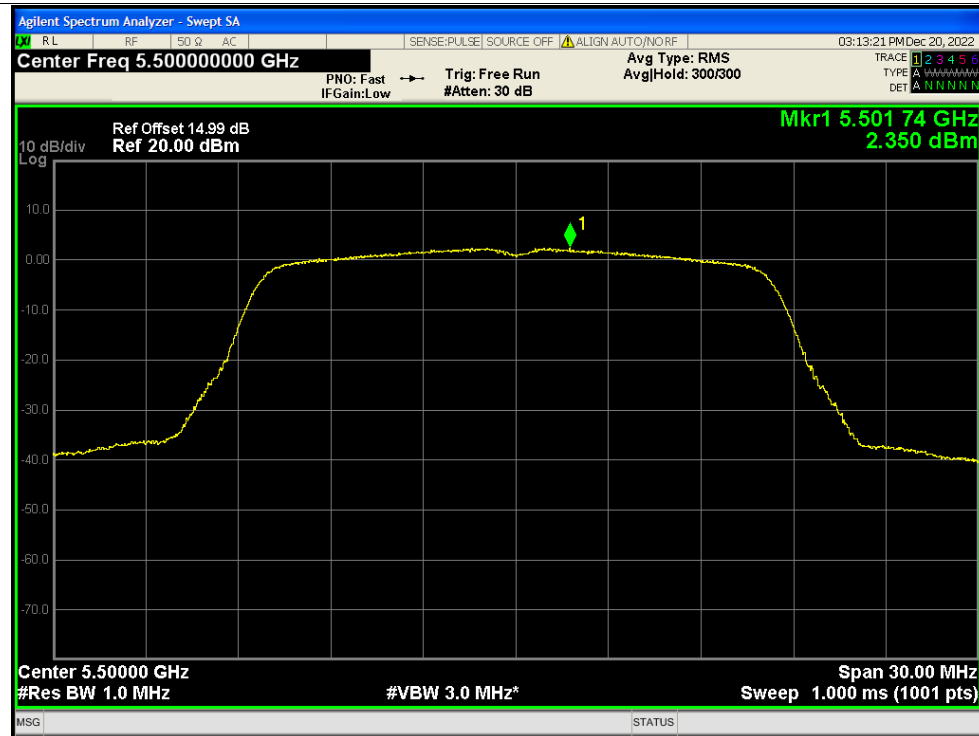


PSD NVNT a 5320MHz Ant1

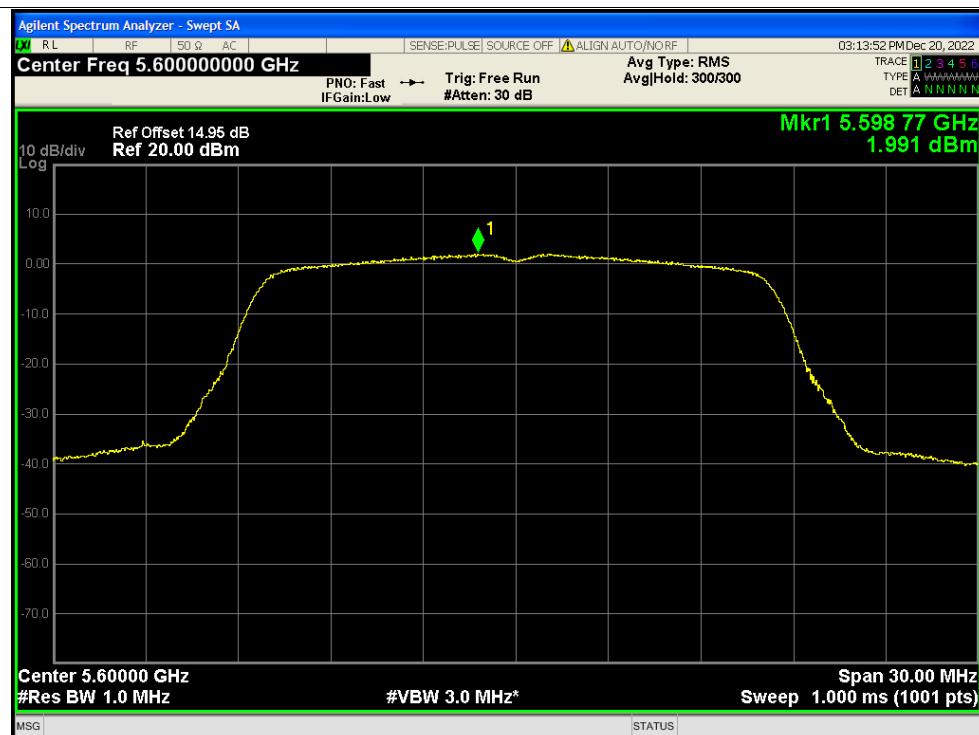




PSD NVNT a 5500MHz Ant1

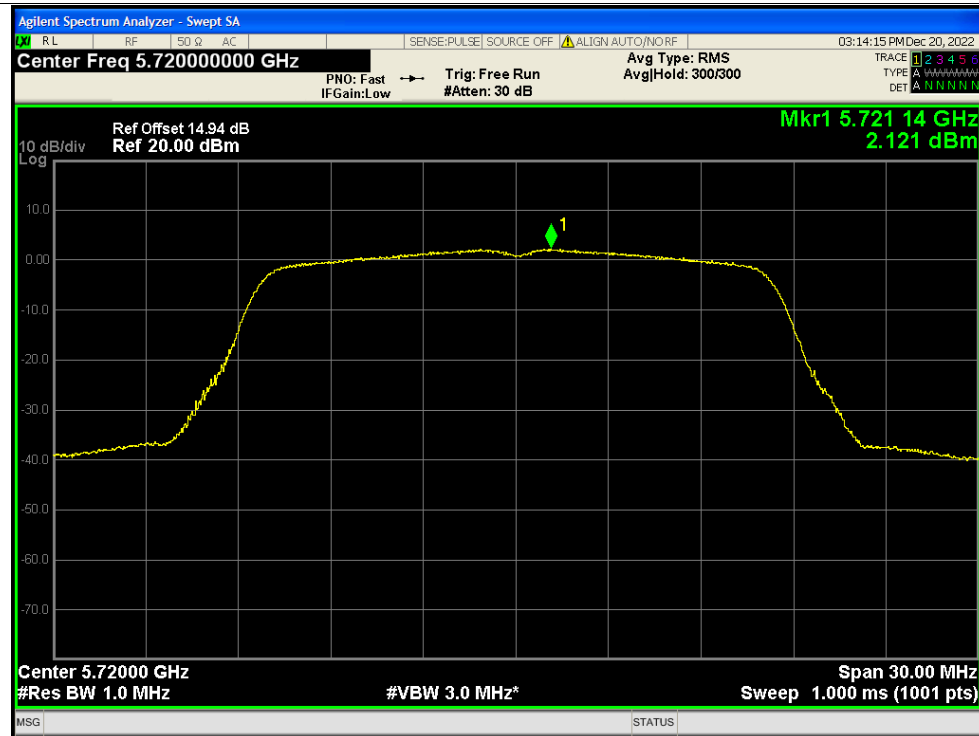


PSD NVNT a 5600MHz Ant1

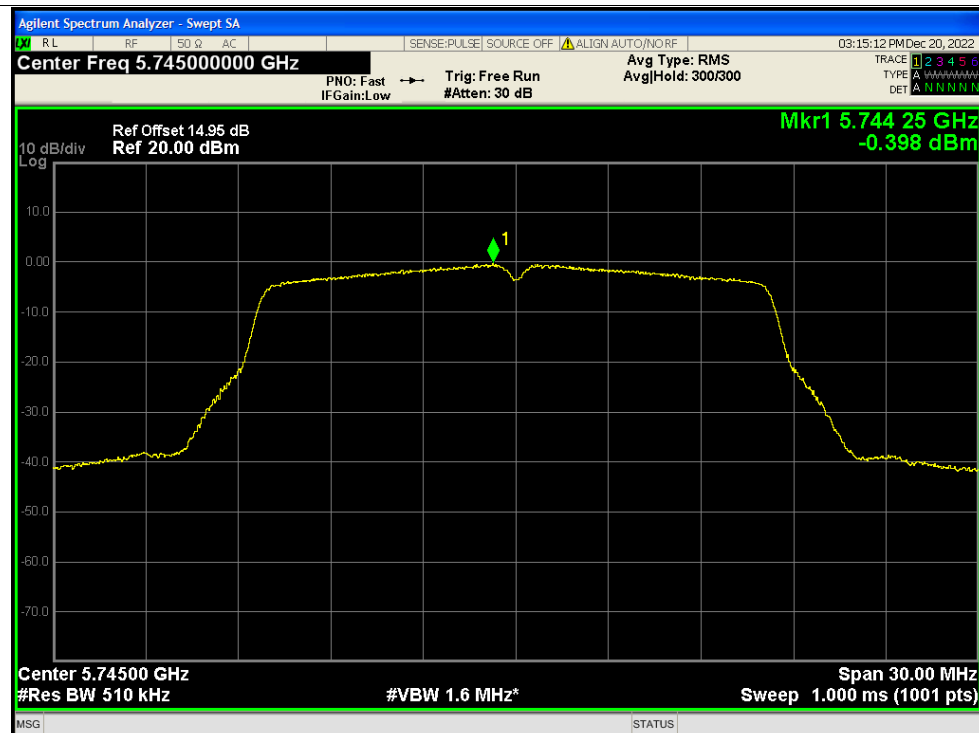




PSD NVNT a 5720MHz Ant1

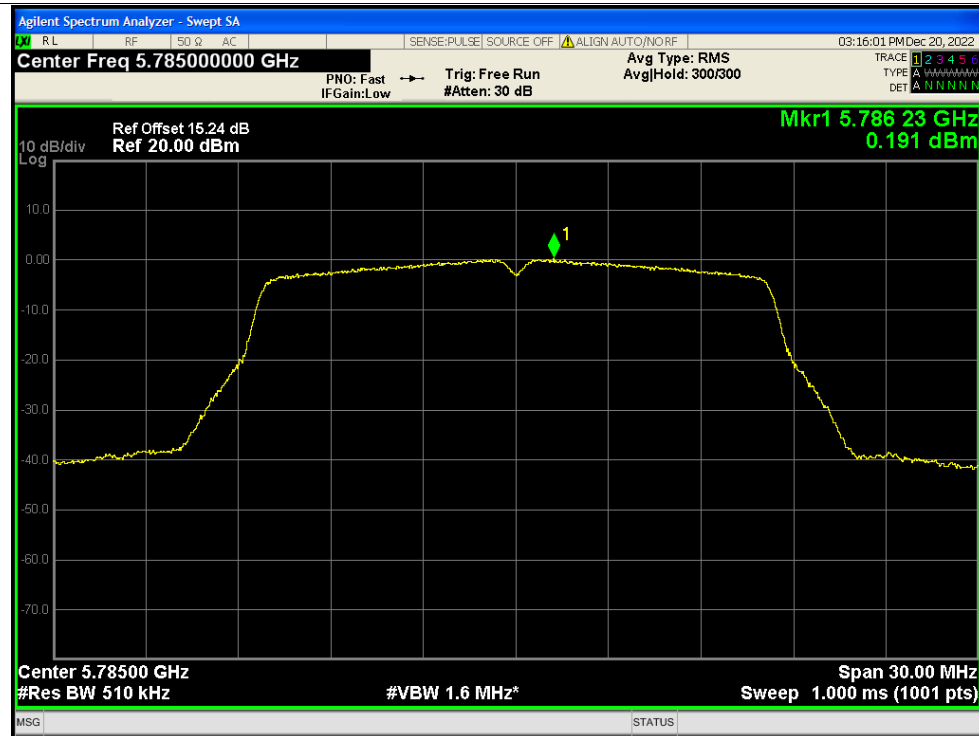


PSD NVNT a 5745MHz Ant1

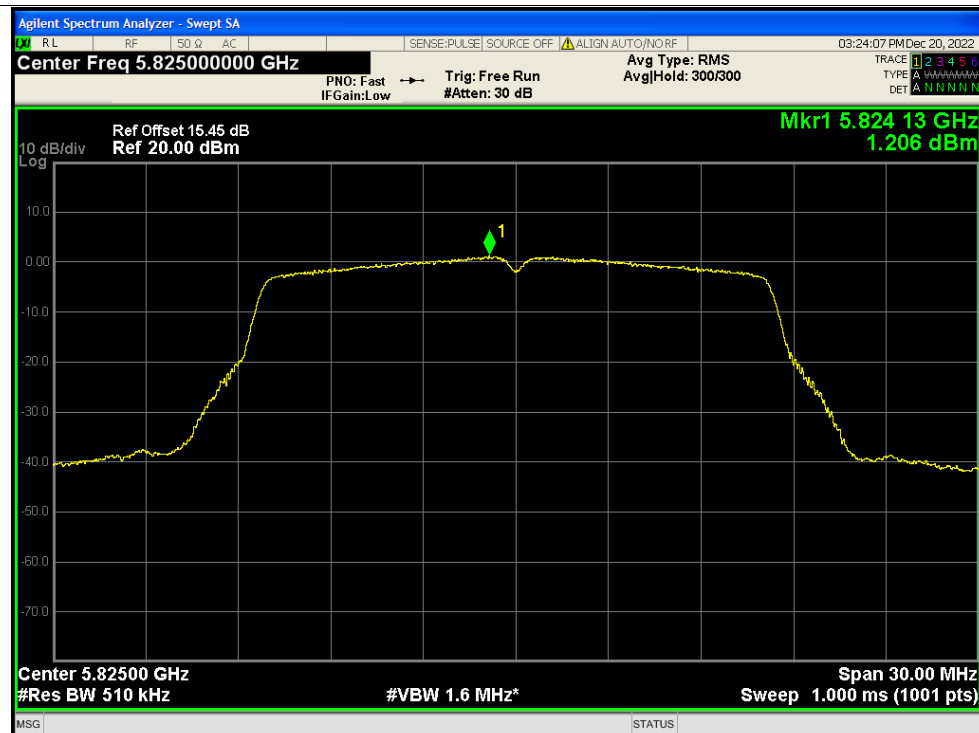




PSD NVNT a 5785MHz Ant1

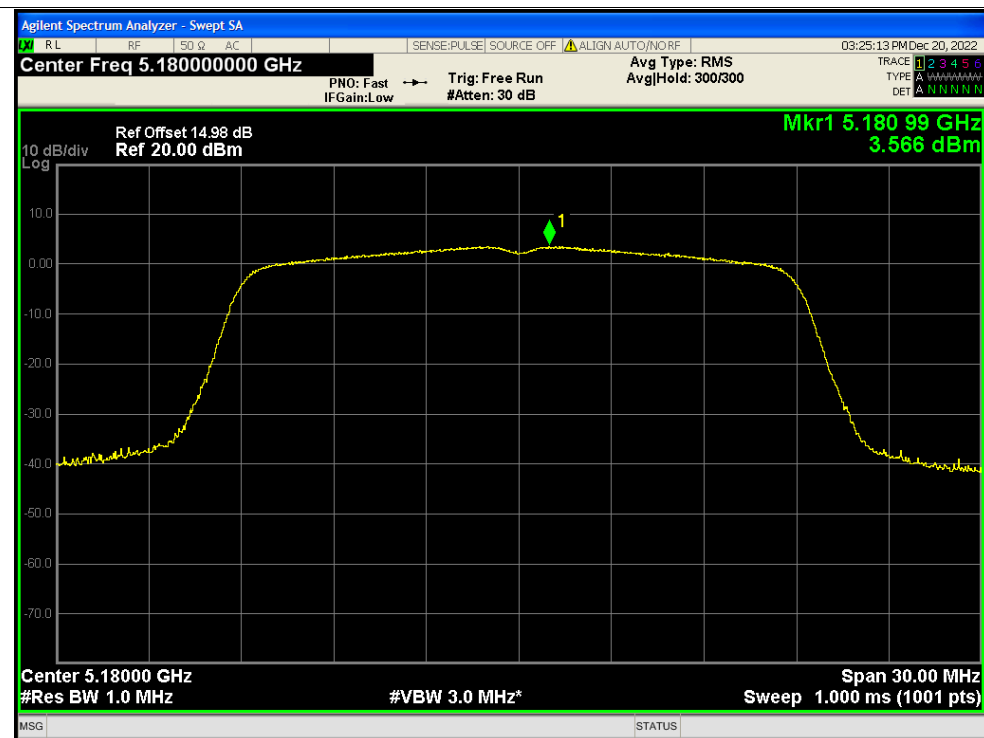


PSD NVNT a 5825MHz Ant1

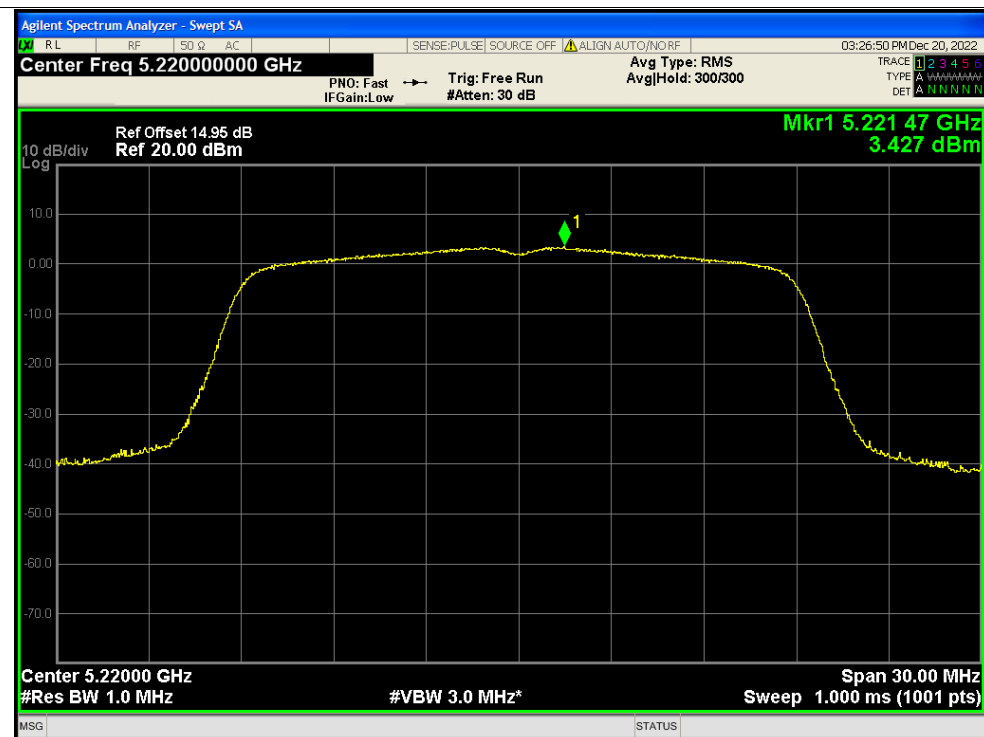




PSD NVNT n20 5180MHz Ant1

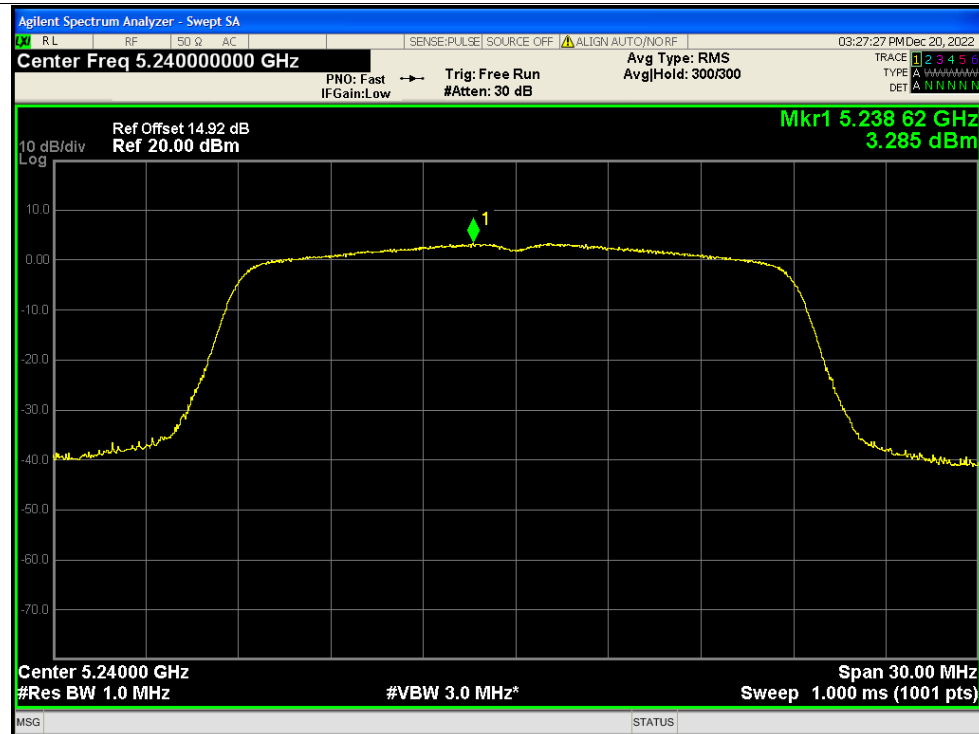


PSD NVNT n20 5220MHz Ant1

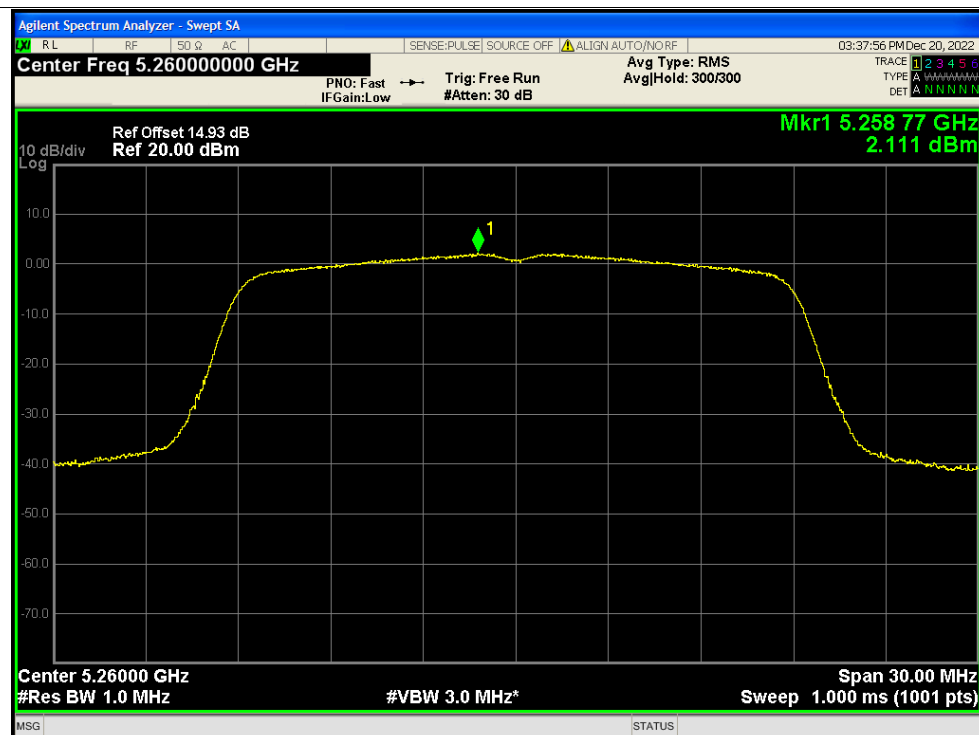




PSD NVNT n20 5240MHz Ant1

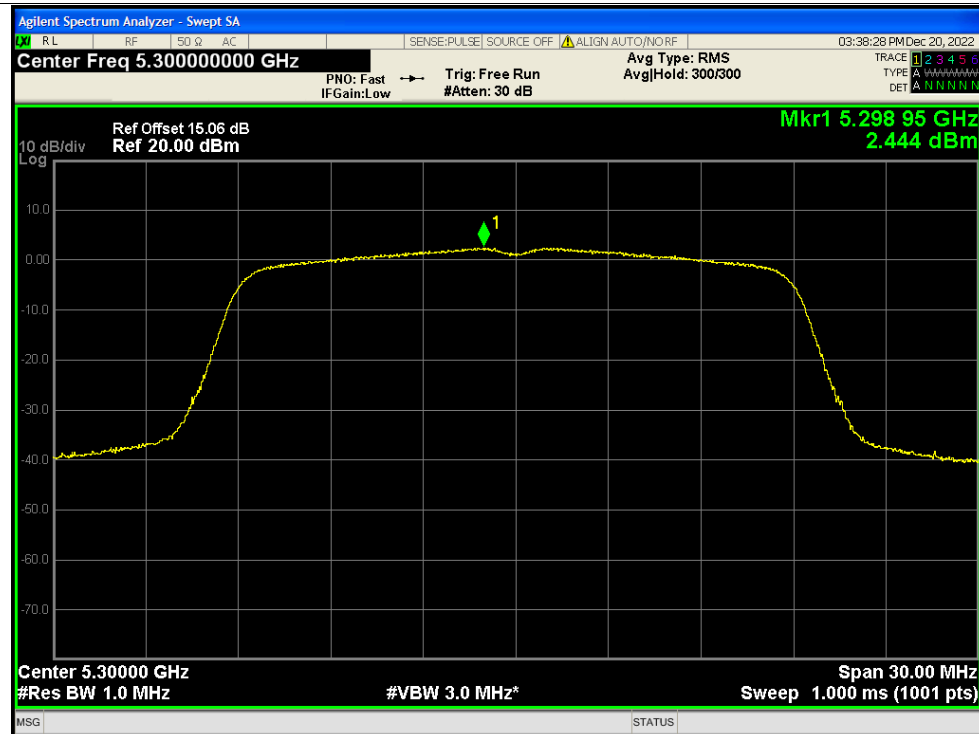


PSD NVNT n20 5260MHz Ant1

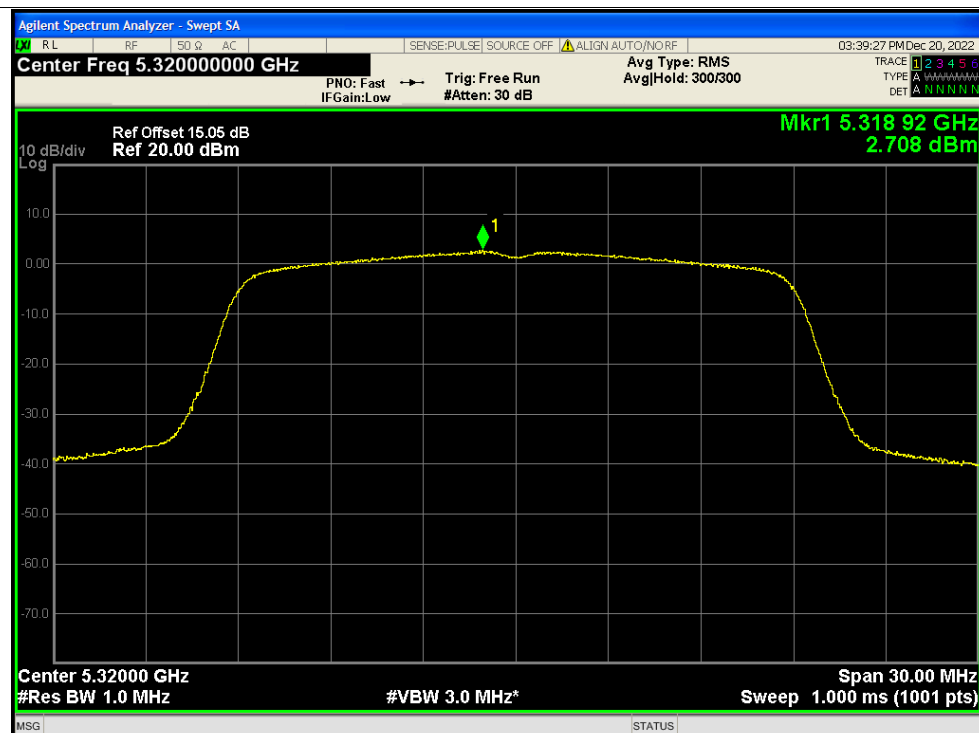




PSD NVNT n20 5300MHz Ant1

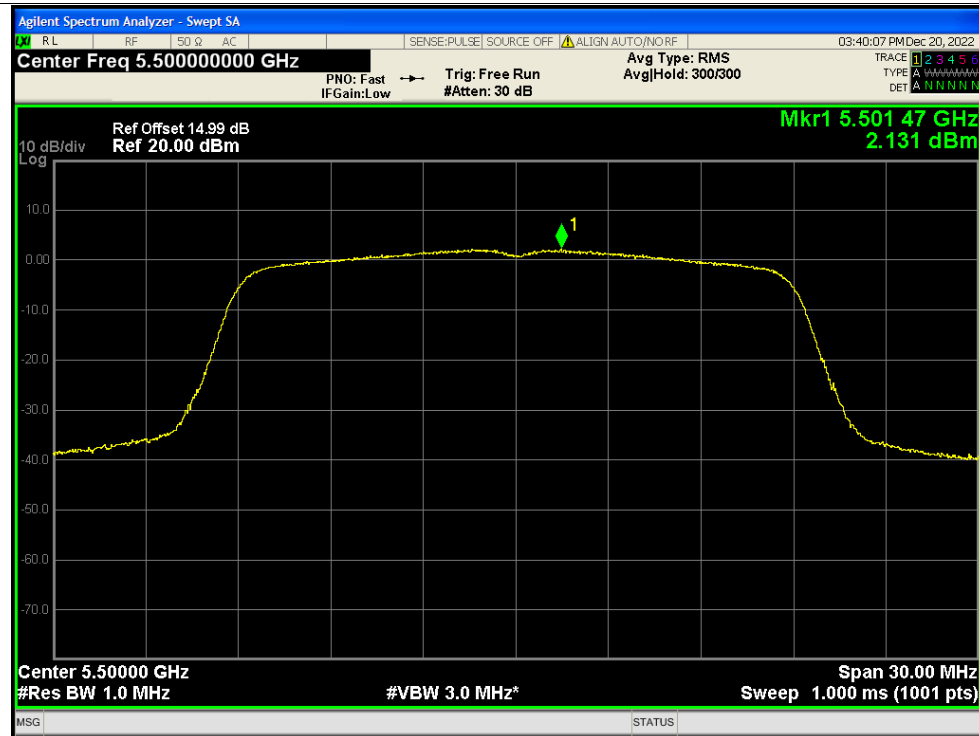


PSD NVNT n20 5320MHz Ant1

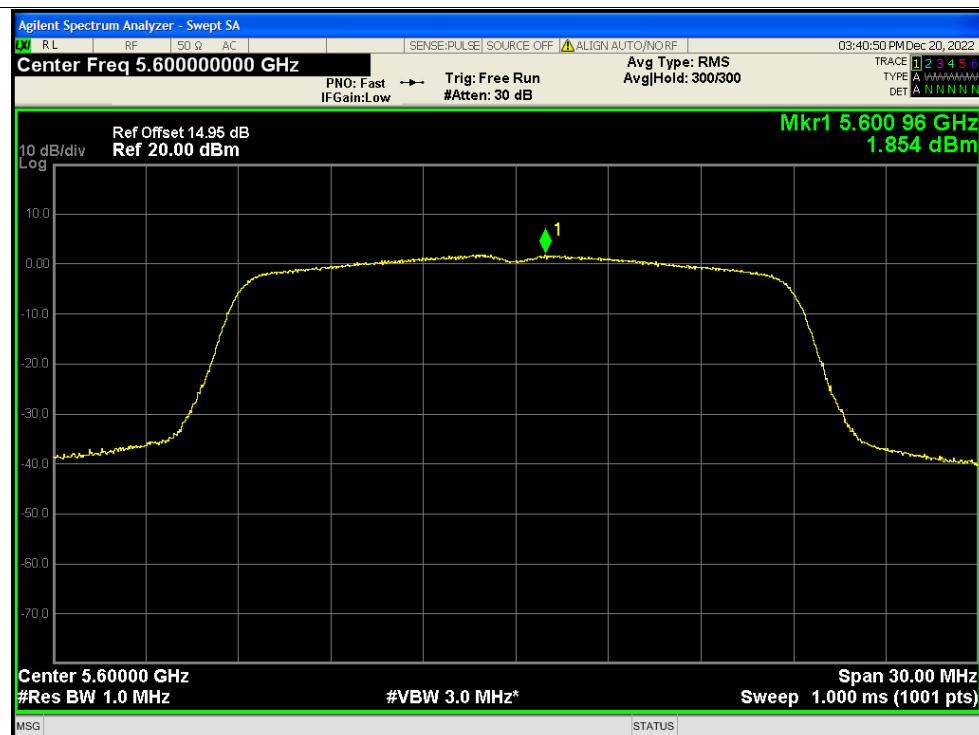




PSD NVNT n20 5500MHz Ant1

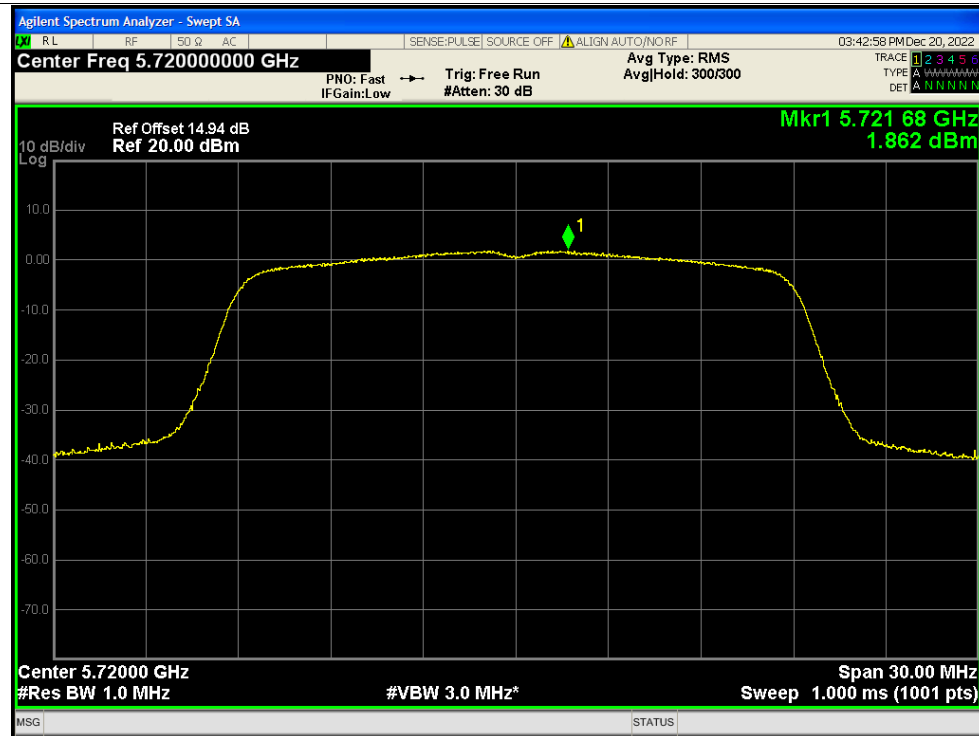


PSD NVNT n20 5600MHz Ant1

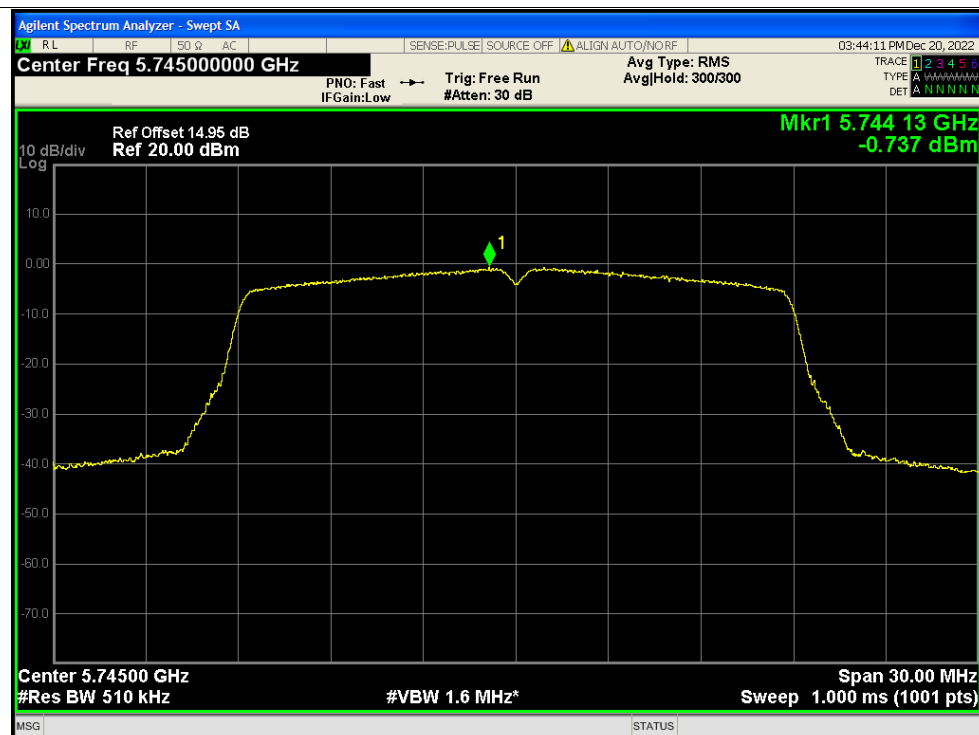




PSD NVNT n20 5720MHz Ant1

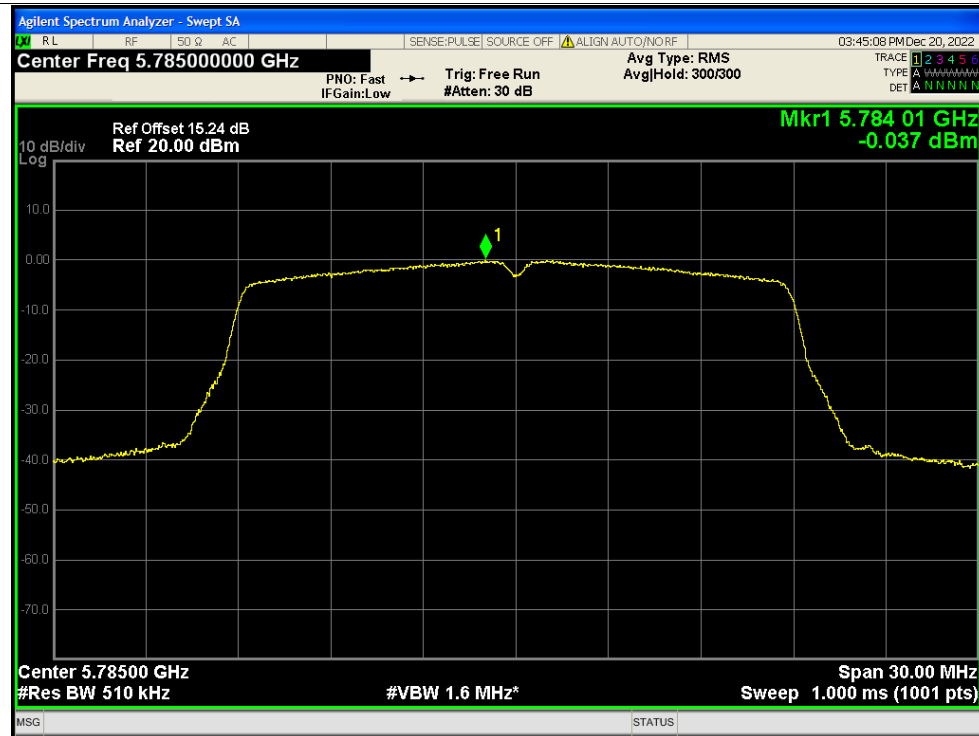


PSD NVNT n20 5745MHz Ant1

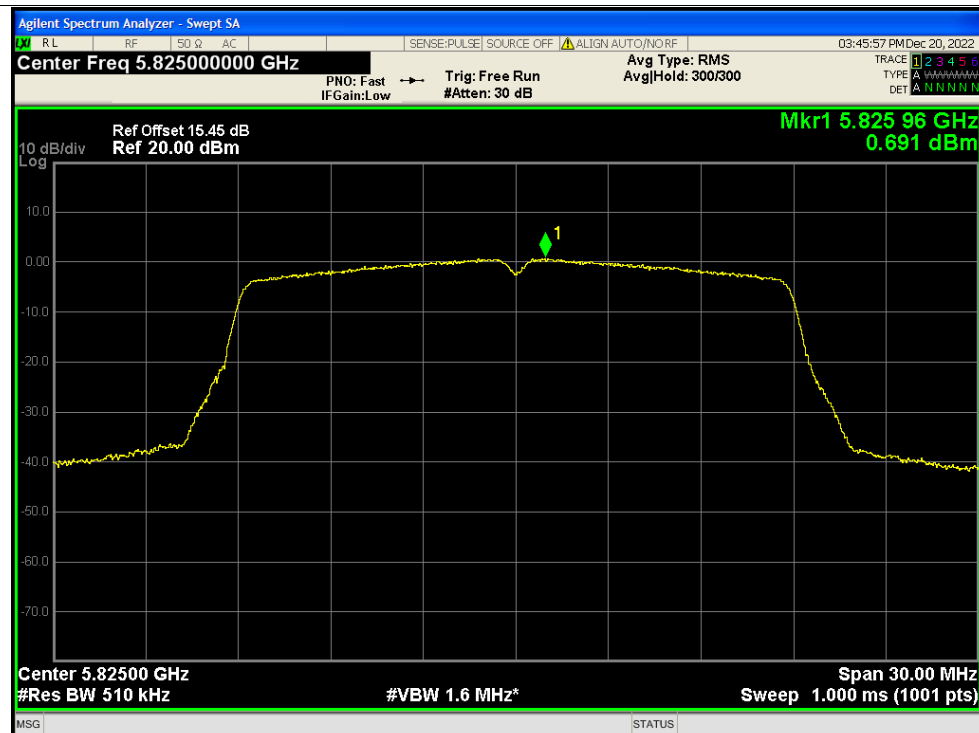




PSD NVNT n20 5785MHz Ant1

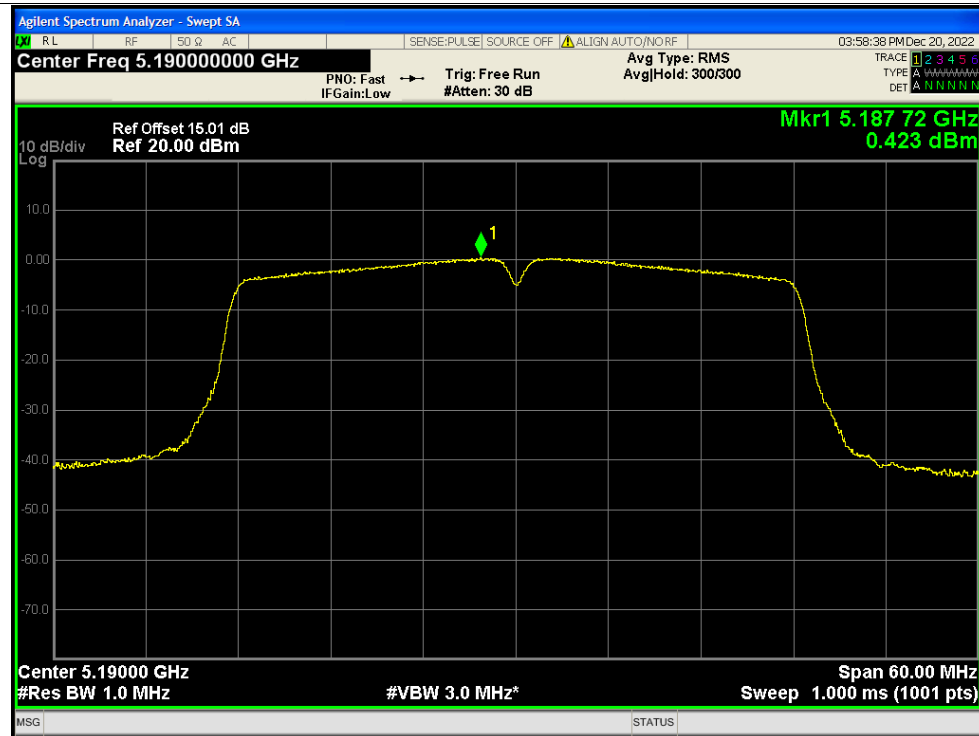


PSD NVNT n20 5825MHz Ant1

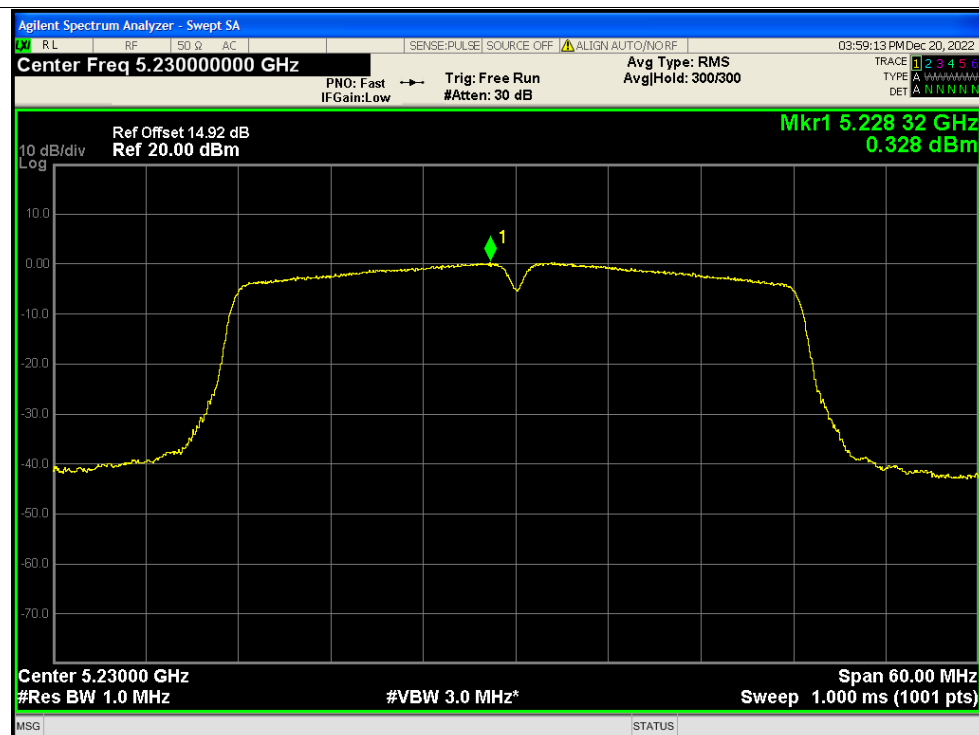




PSD NVNT n40 5190MHz Ant1

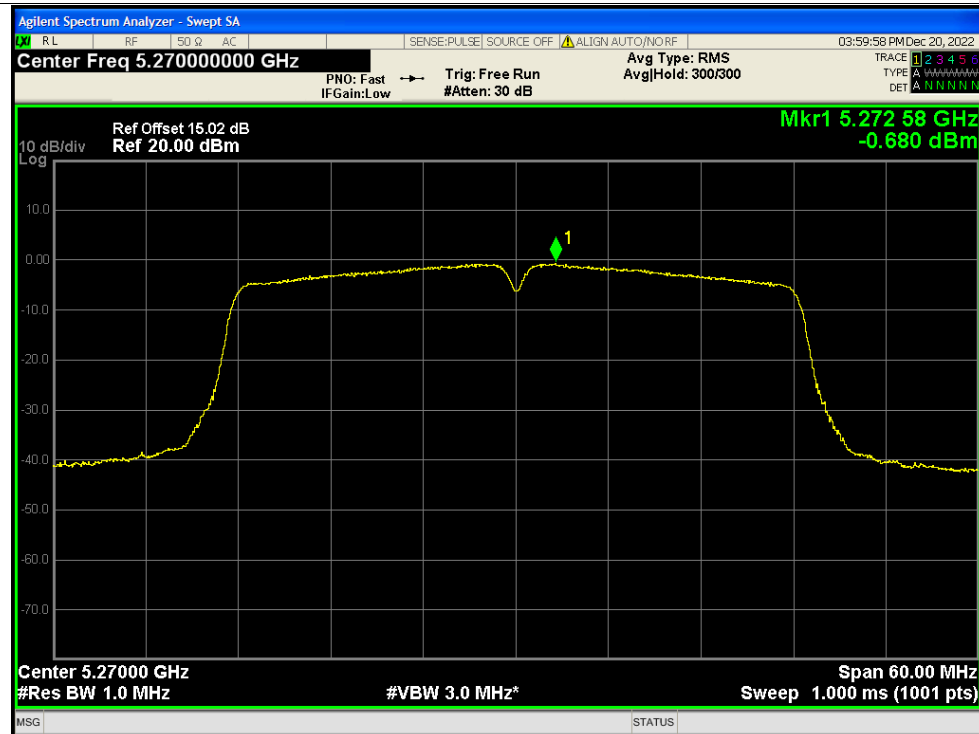


PSD NVNT n40 5230MHz Ant1

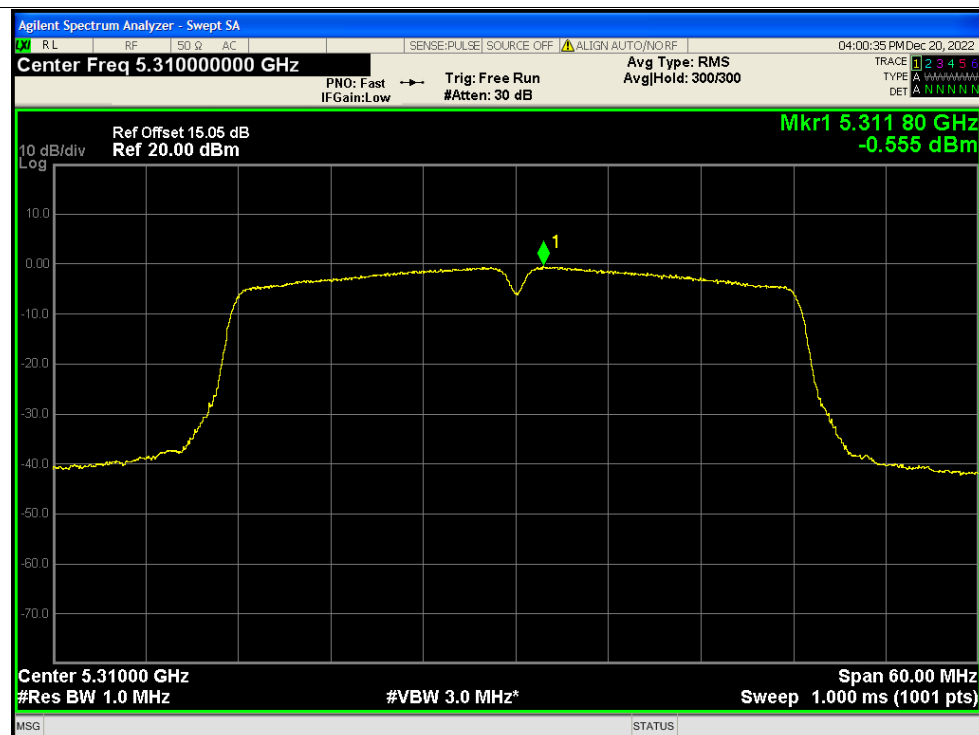




PSD NVNT n40 5270MHz Ant1

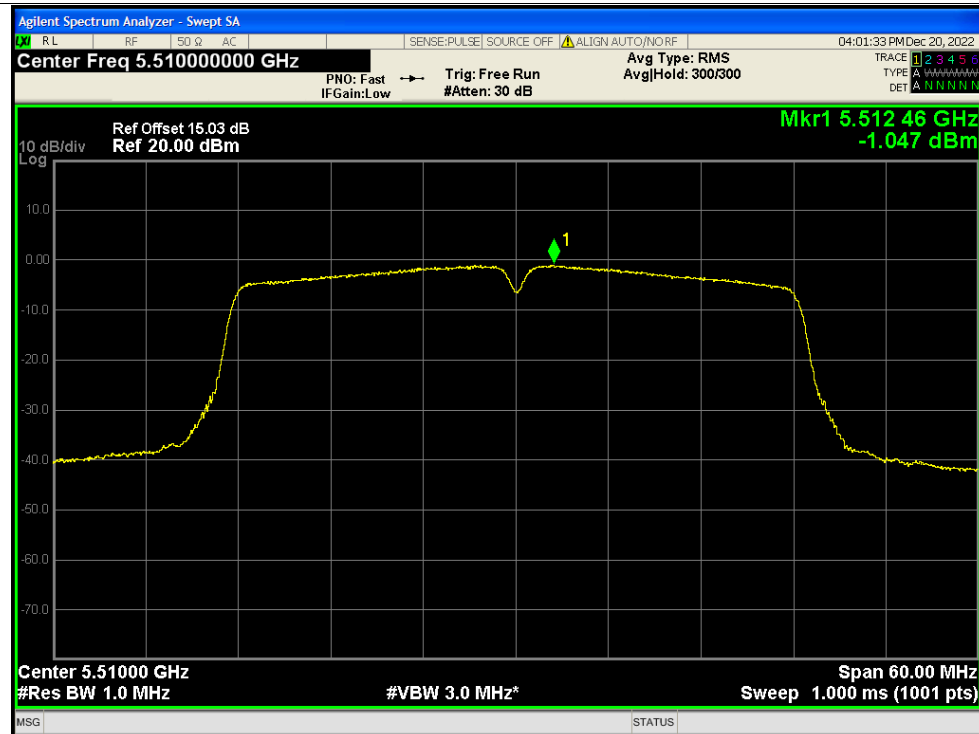


PSD NVNT n40 5310MHz Ant1

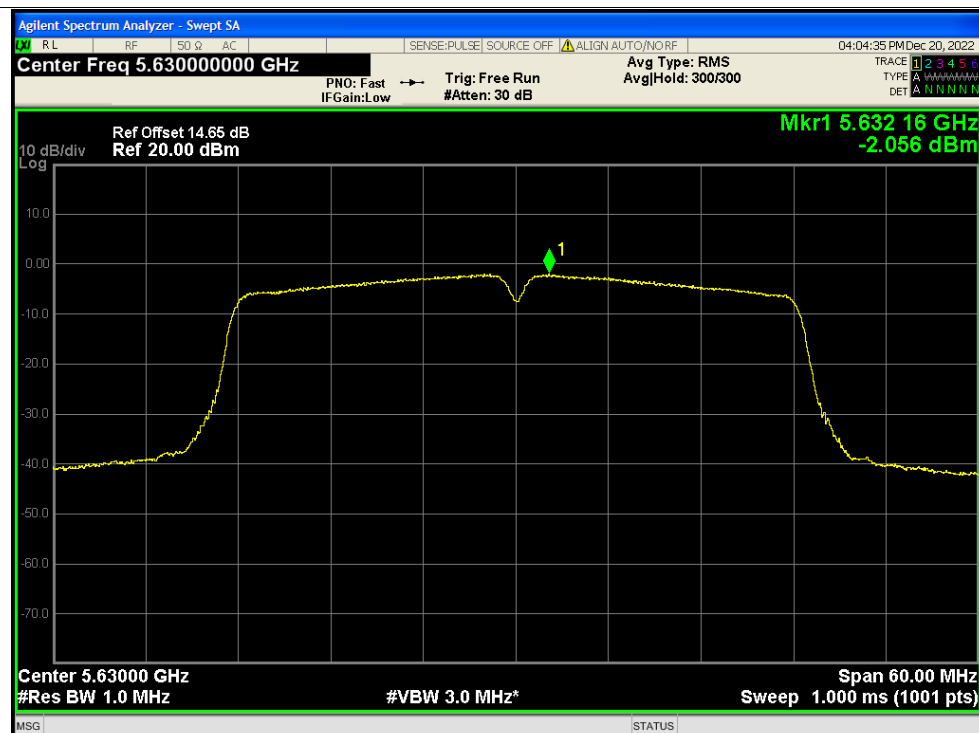




PSD NVNT n40 5510MHz Ant1

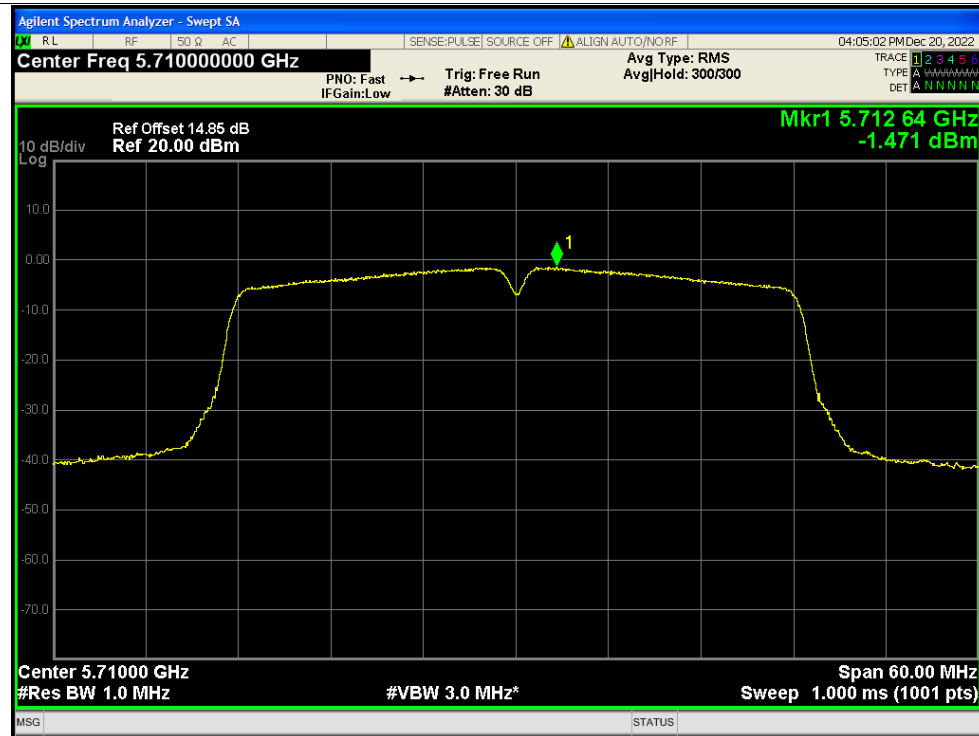


PSD NVNT n40 5630MHz Ant1

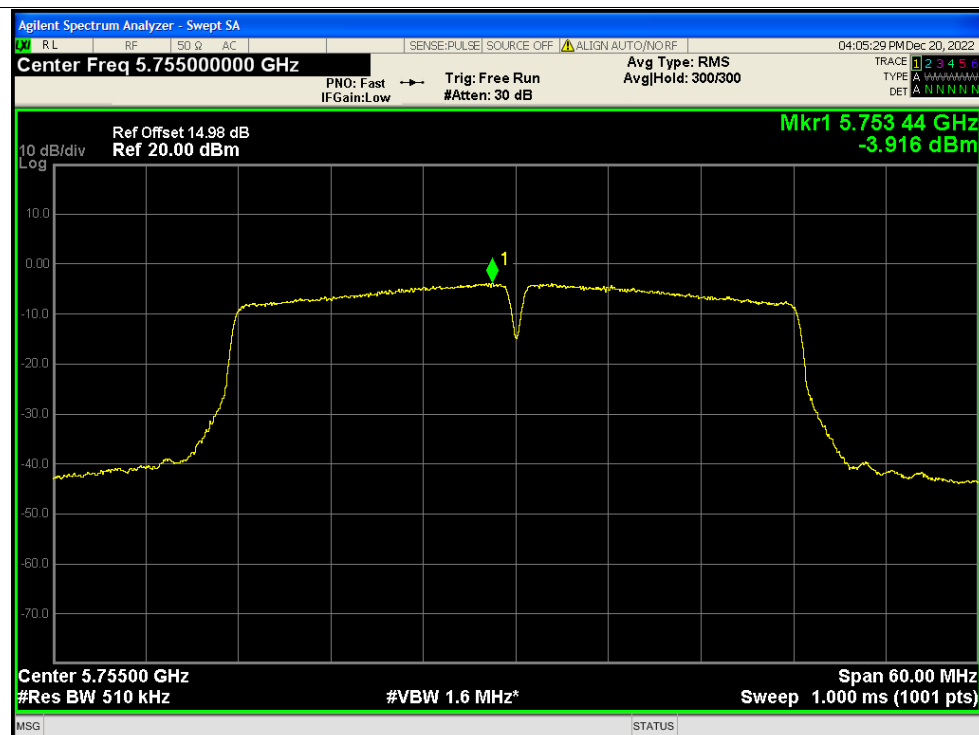




PSD NVNT n40 5710MHz Ant1

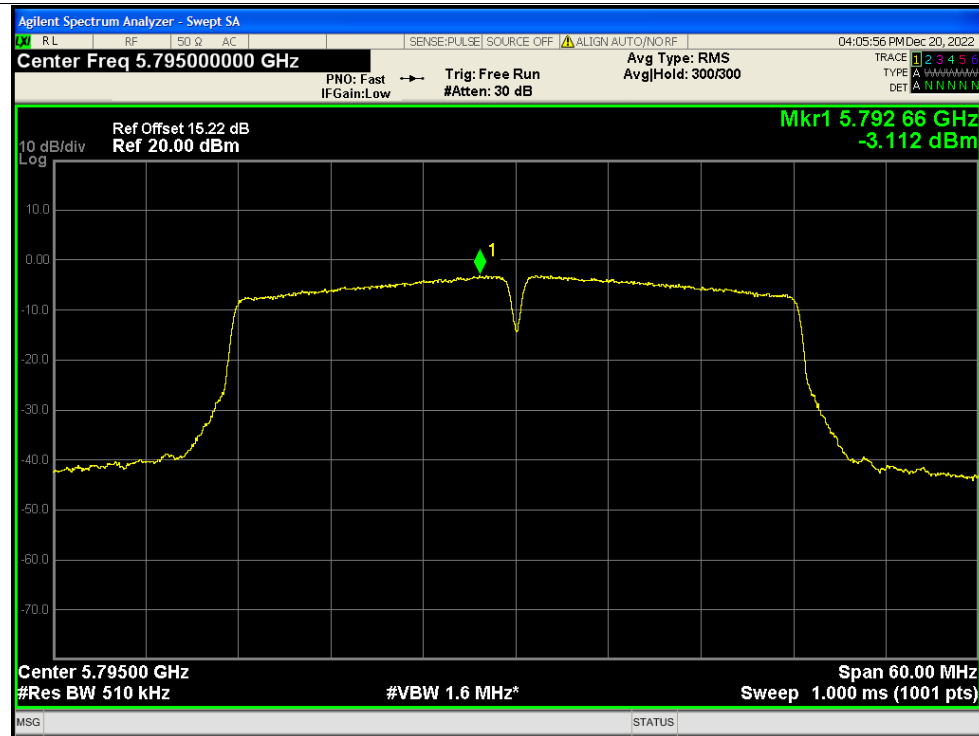


PSD NVNT n40 5755MHz Ant1

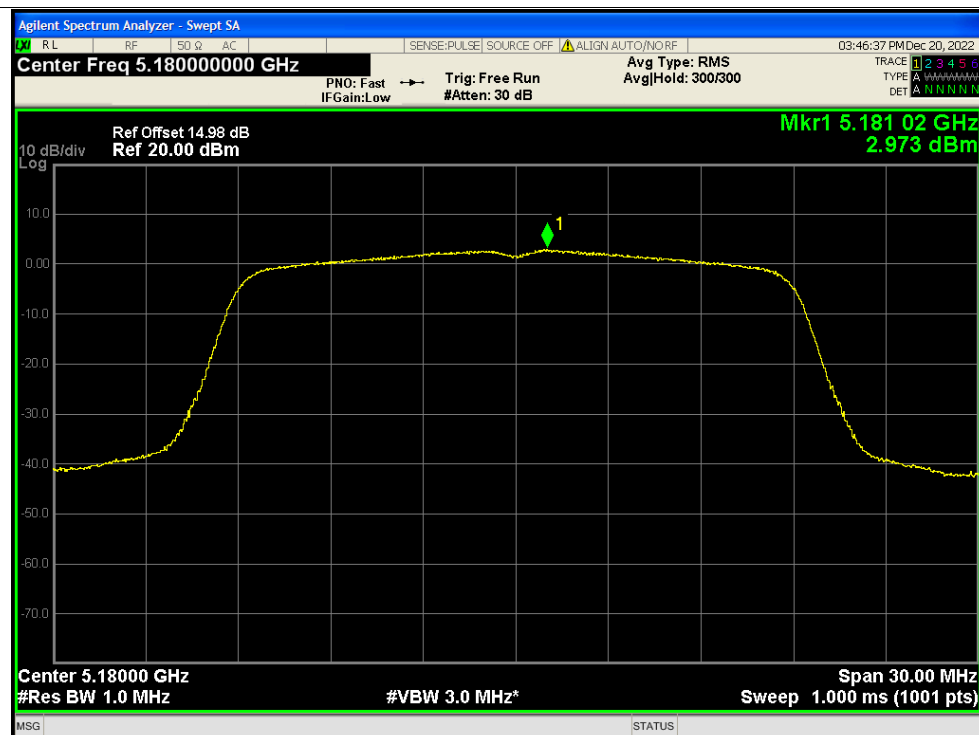




PSD NVNT n40 5795MHz Ant1

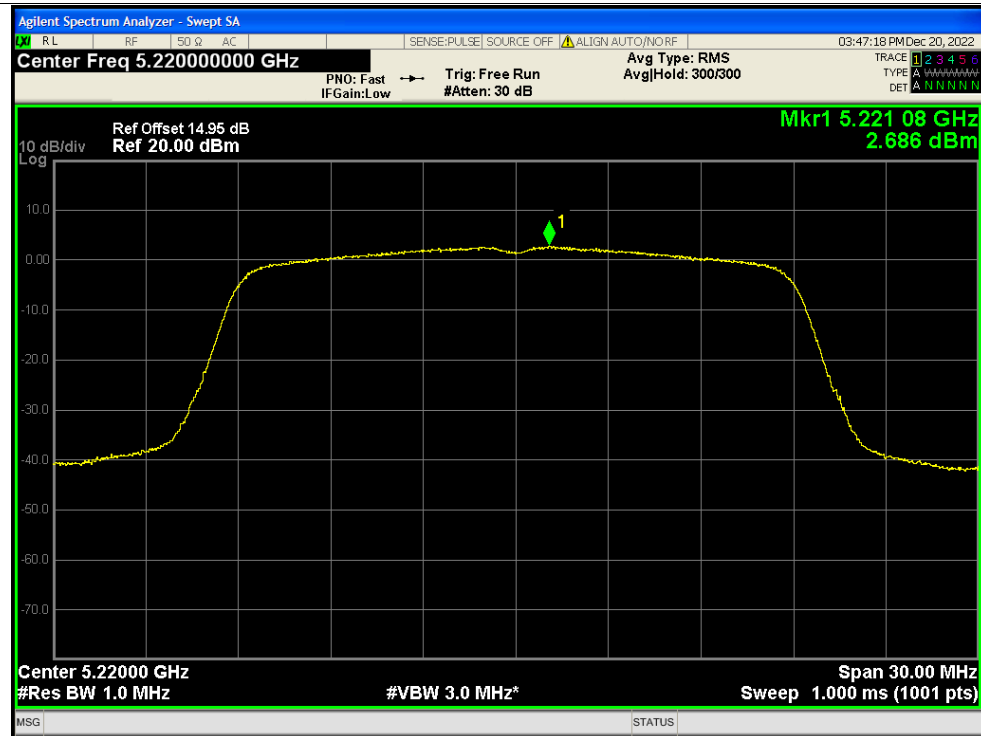


PSD NVNT ac20 5180MHz Ant1

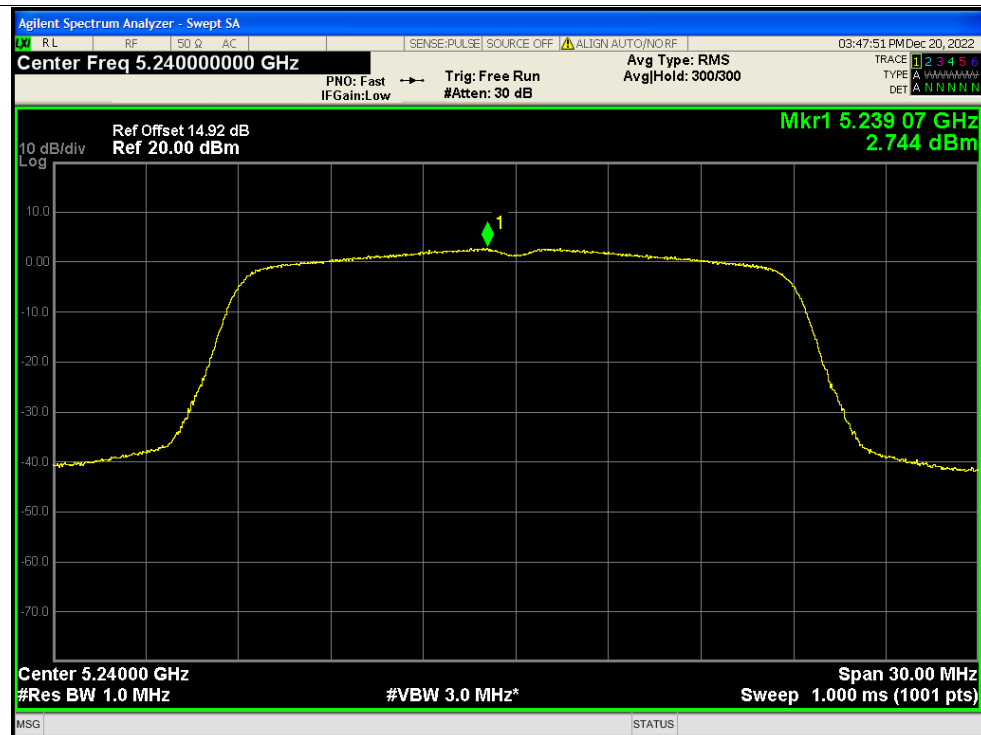




PSD NVNT ac20 5220MHz Ant1

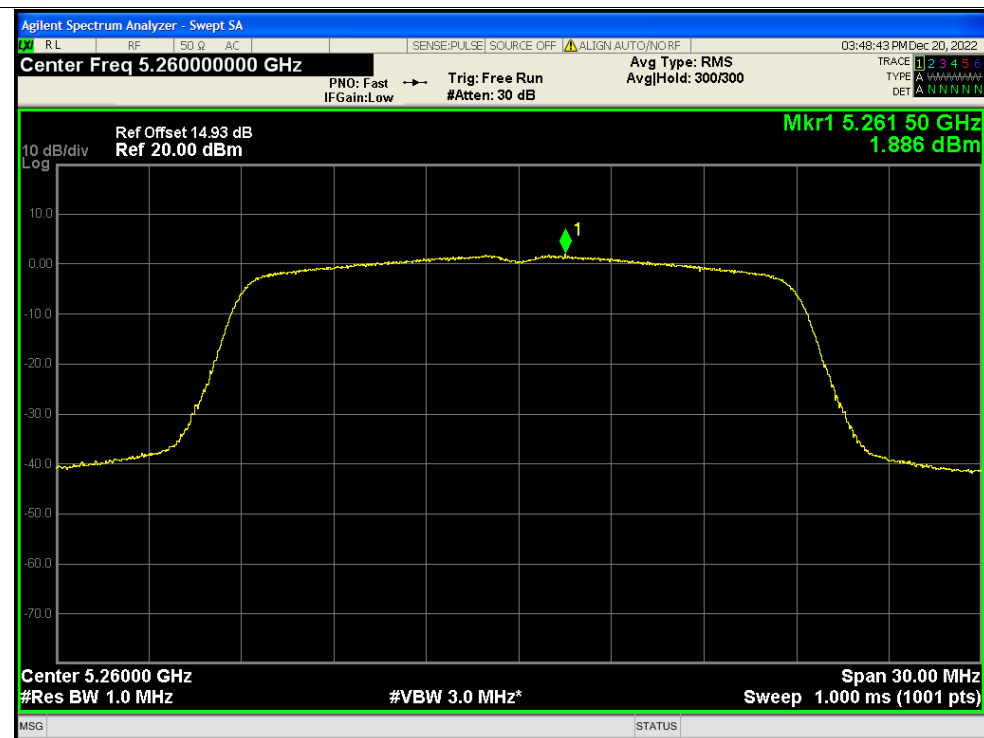


PSD NVNT ac20 5240MHz Ant1

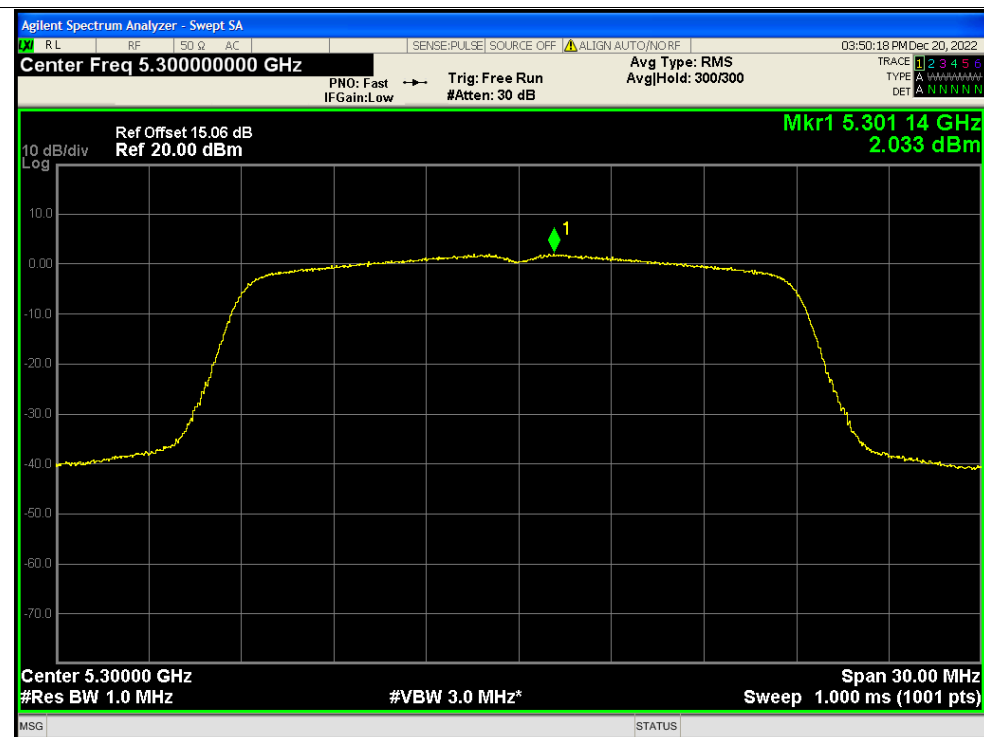




PSD NVNT ac20 5260MHz Ant1

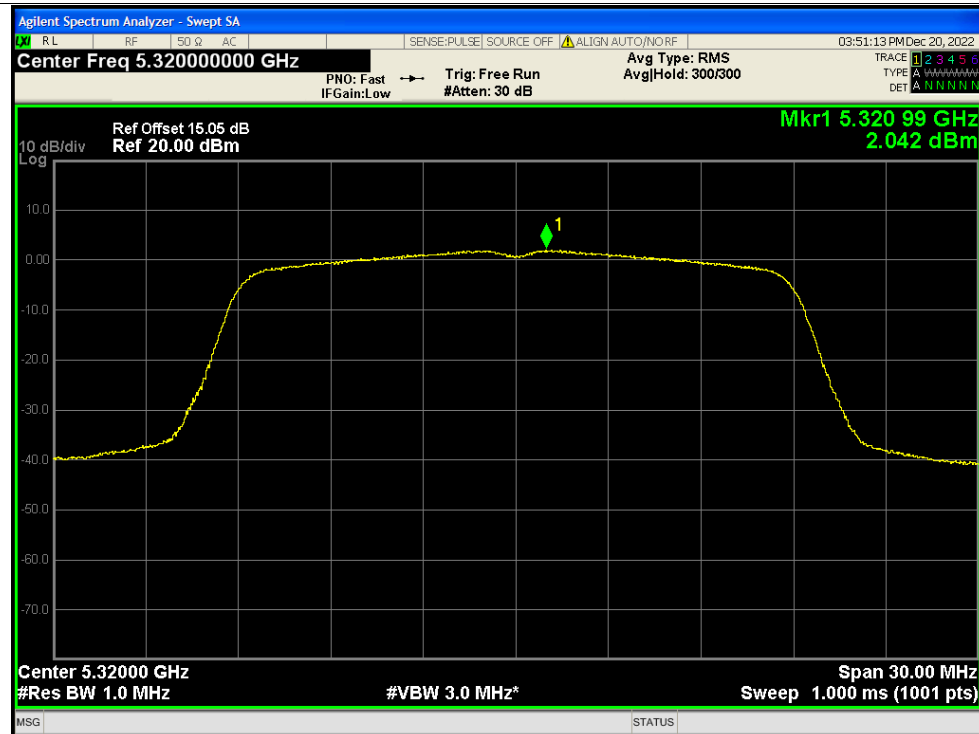


PSD NVNT ac20 5300MHz Ant1

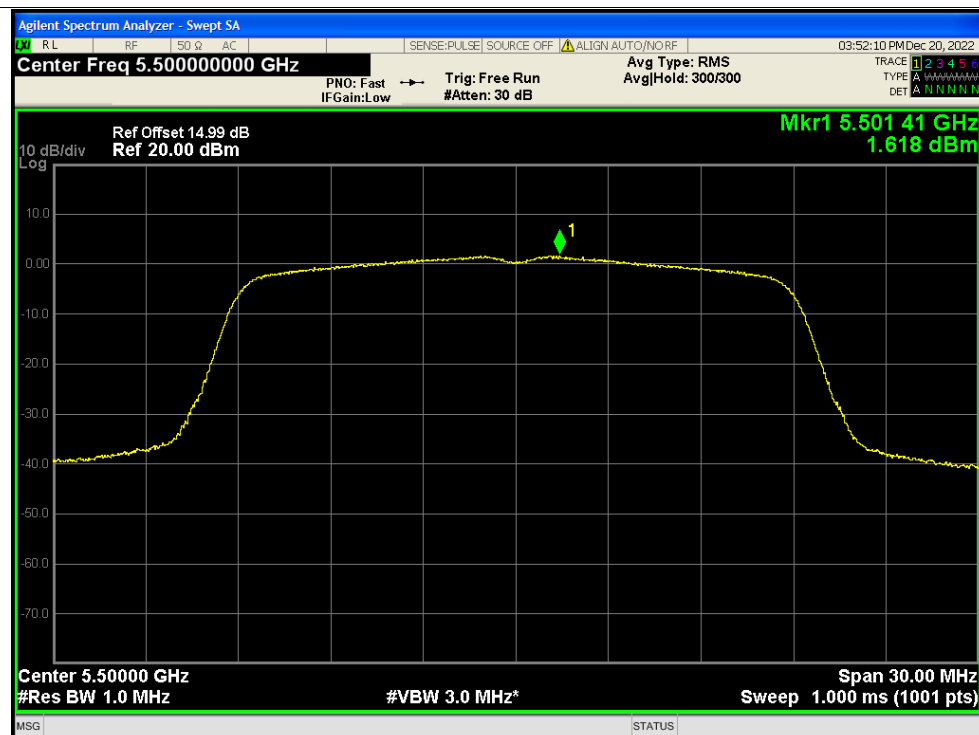




PSD NVNT ac20 5320MHz Ant1

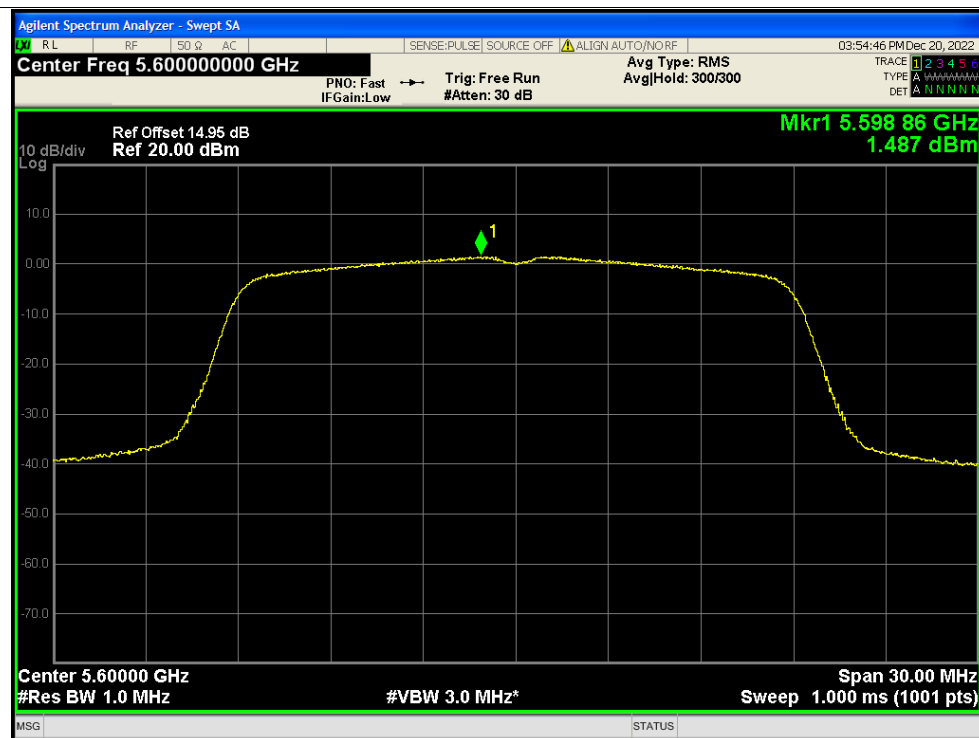


PSD NVNT ac20 5500MHz Ant1

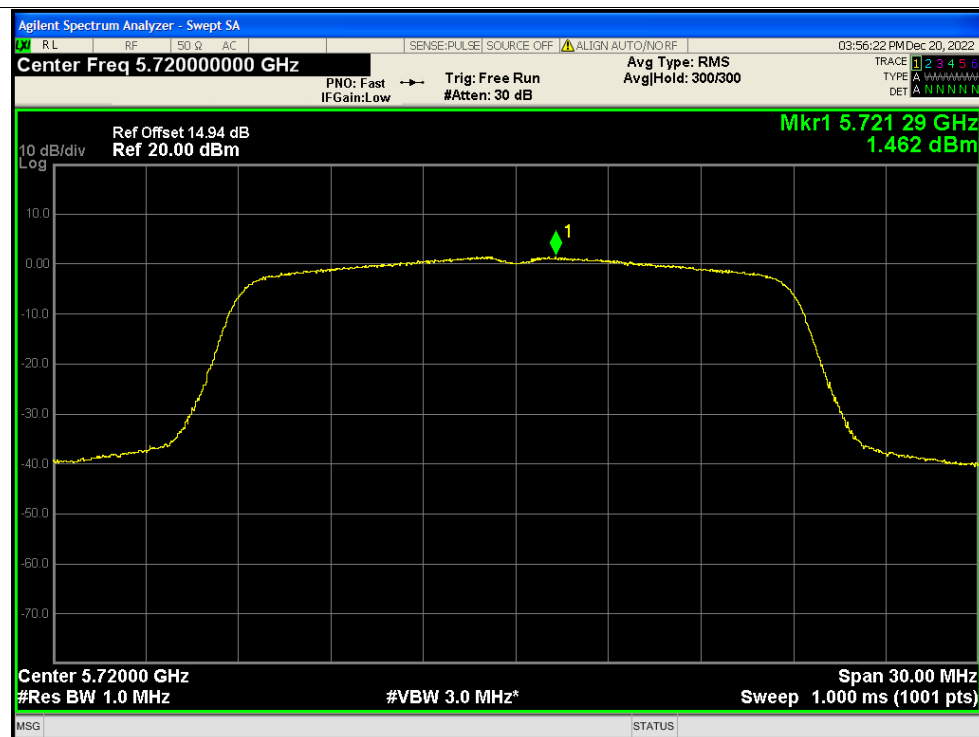




PSD NVNT ac20 5600MHz Ant1

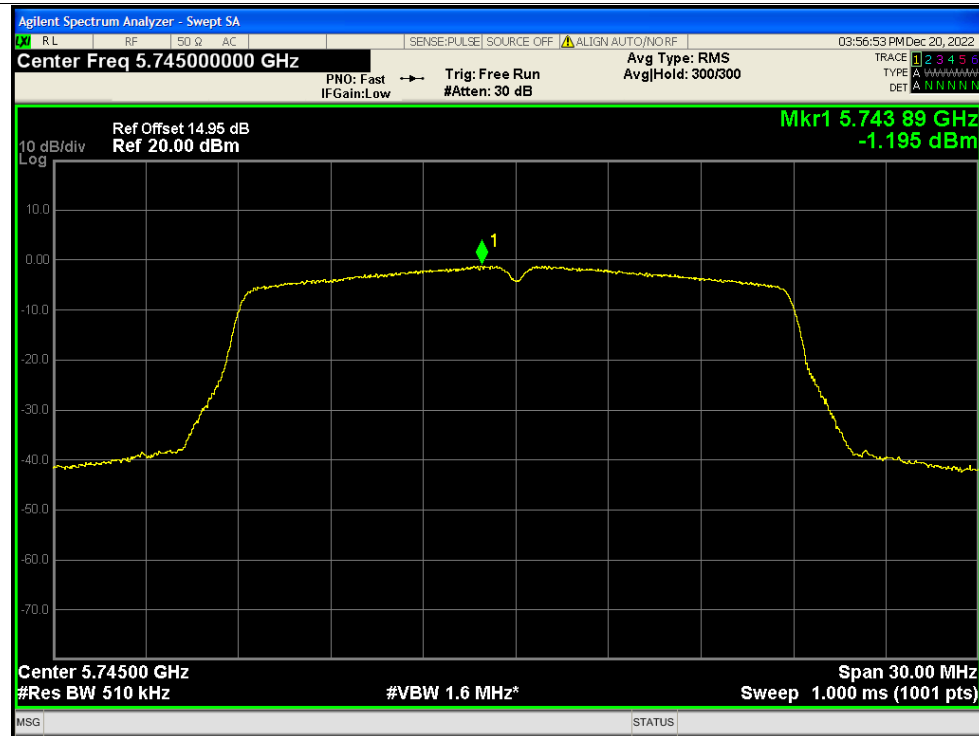


PSD NVNT ac20 5720MHz Ant1

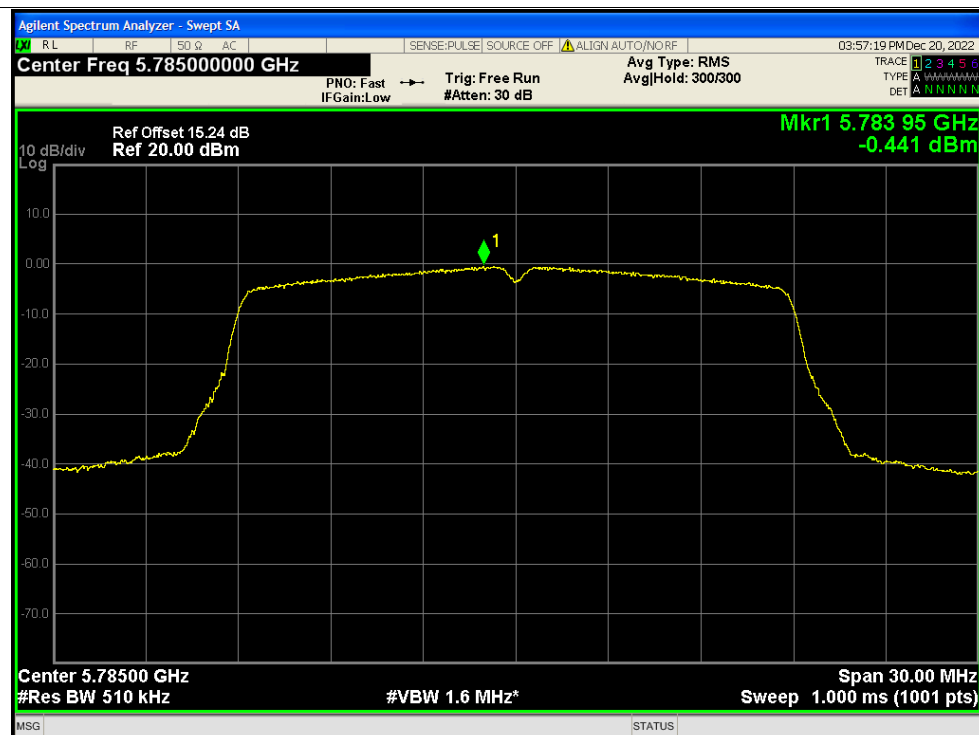




PSD NVNT ac20 5745MHz Ant1

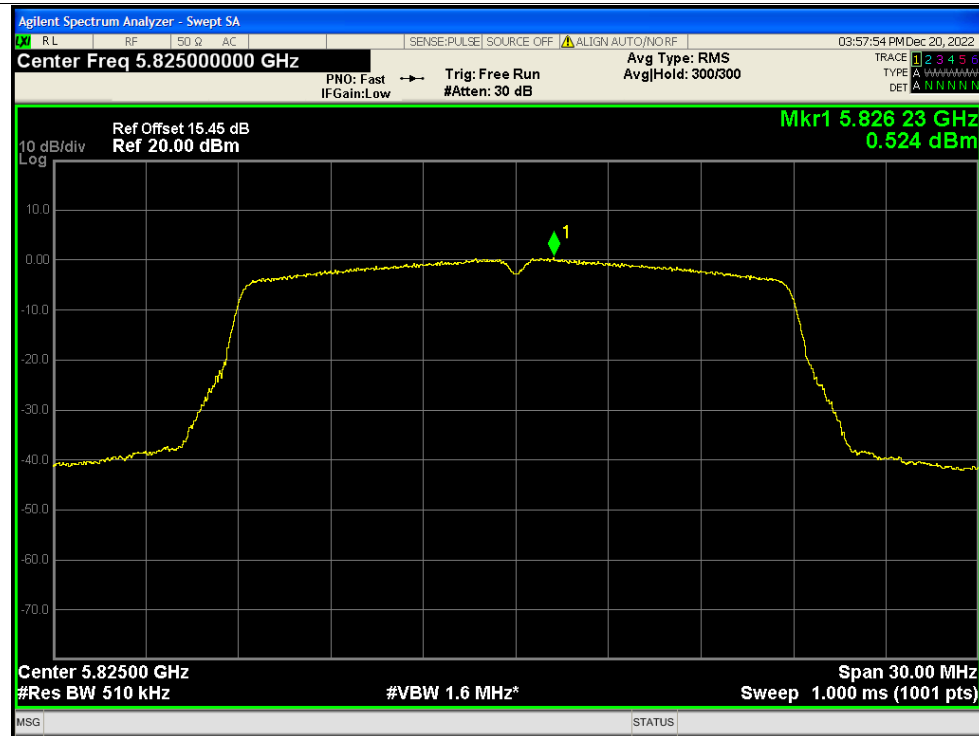


PSD NVNT ac20 5785MHz Ant1

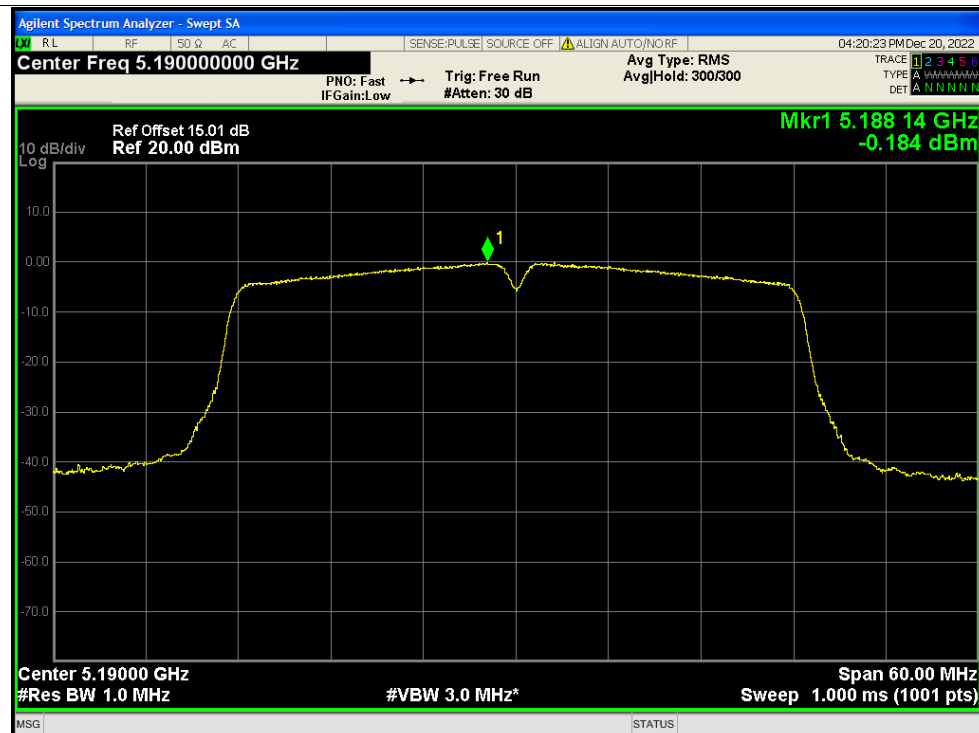




PSD NVNT ac20 5825MHz Ant1

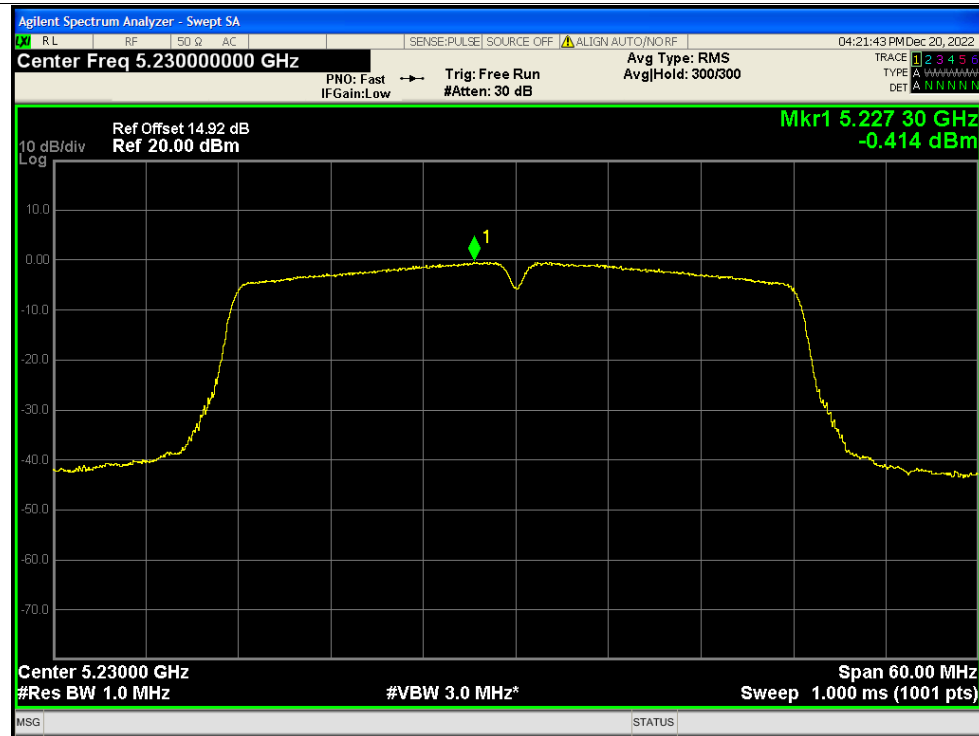


PSD NVNT ac40 5190MHz Ant1

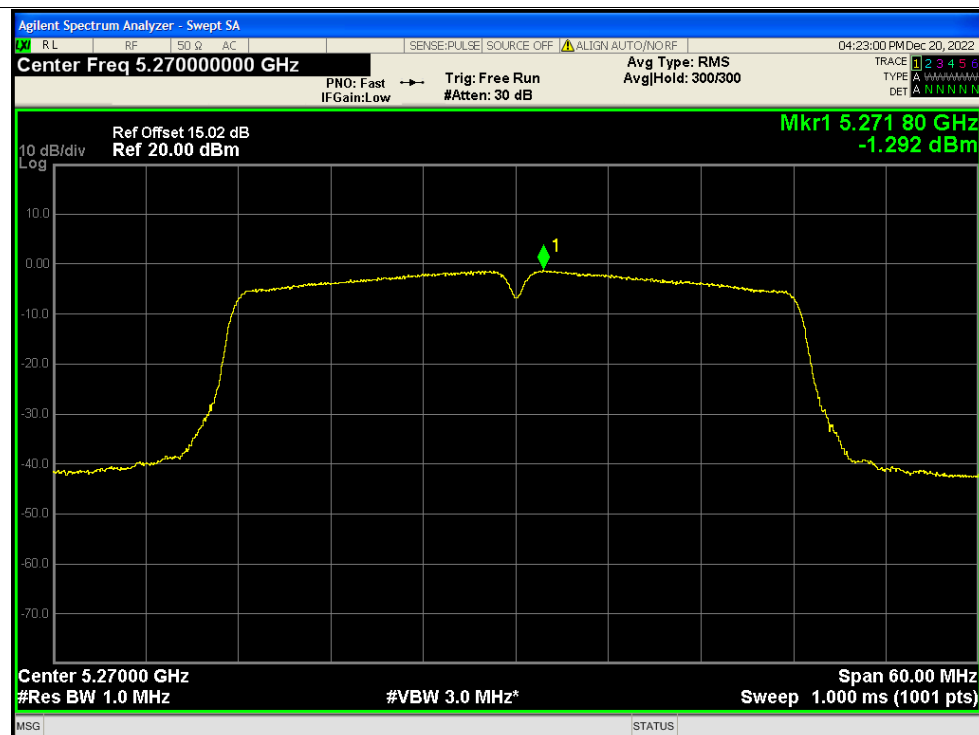




PSD NVNT ac40 5230MHz Ant1

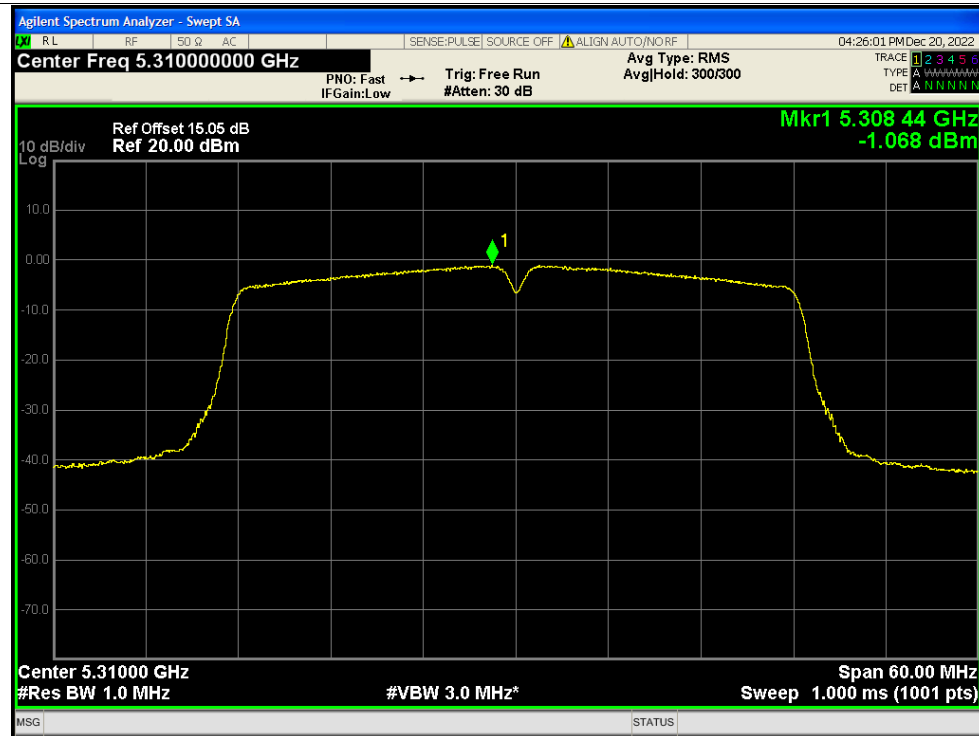


PSD NVNT ac40 5270MHz Ant1

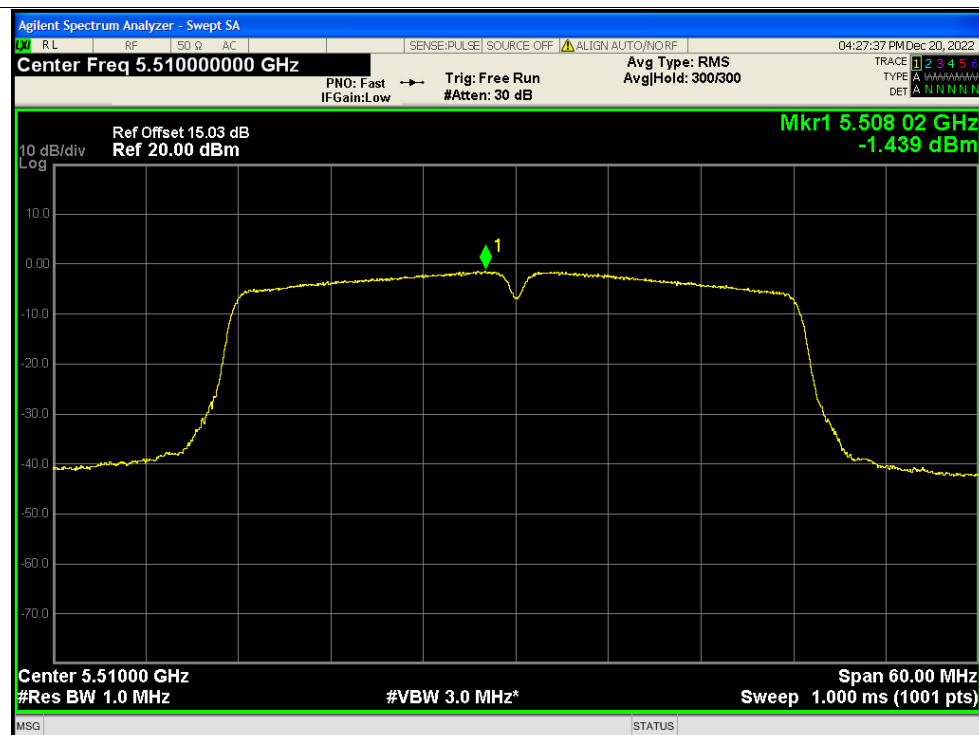




PSD NVNT ac40 5310MHz Ant1

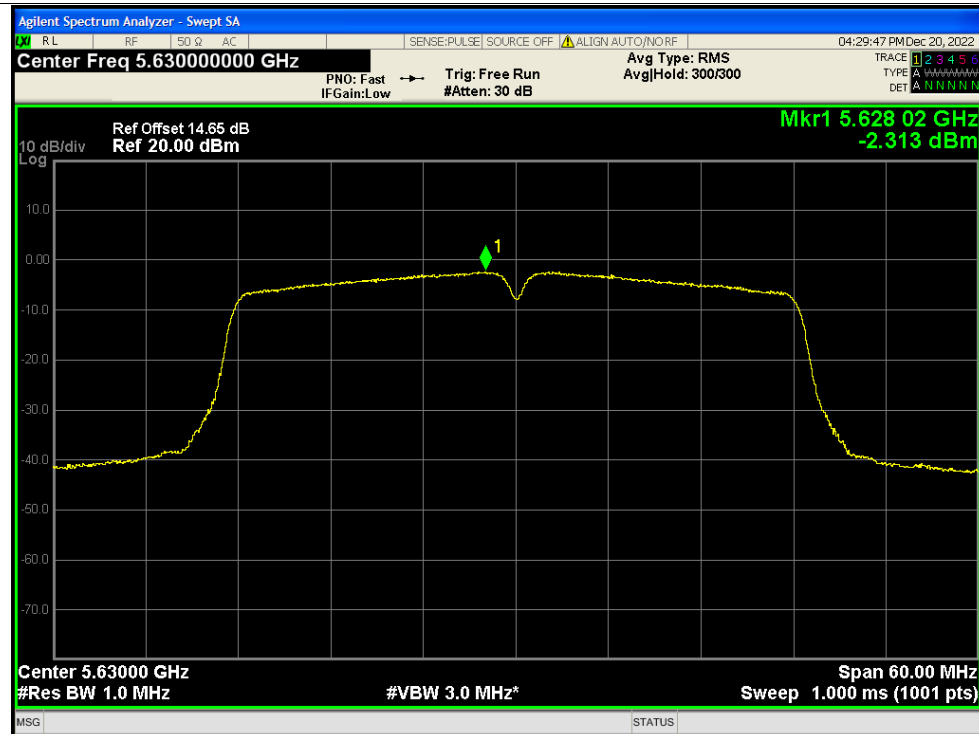


PSD NVNT ac40 5510MHz Ant1

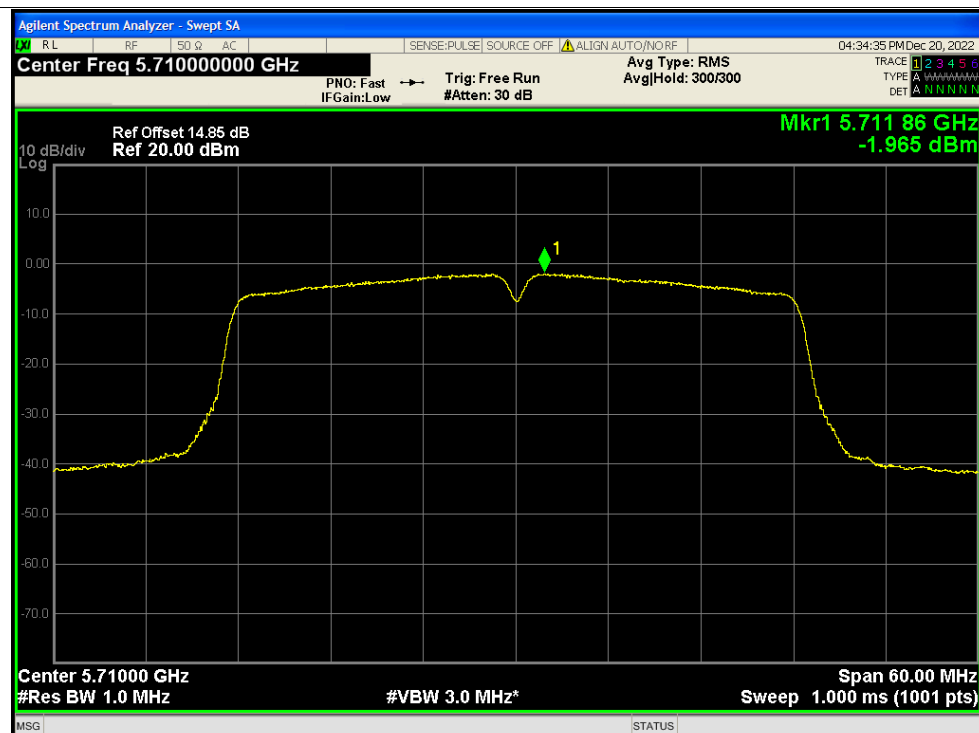




PSD NVNT ac40 5630MHz Ant1

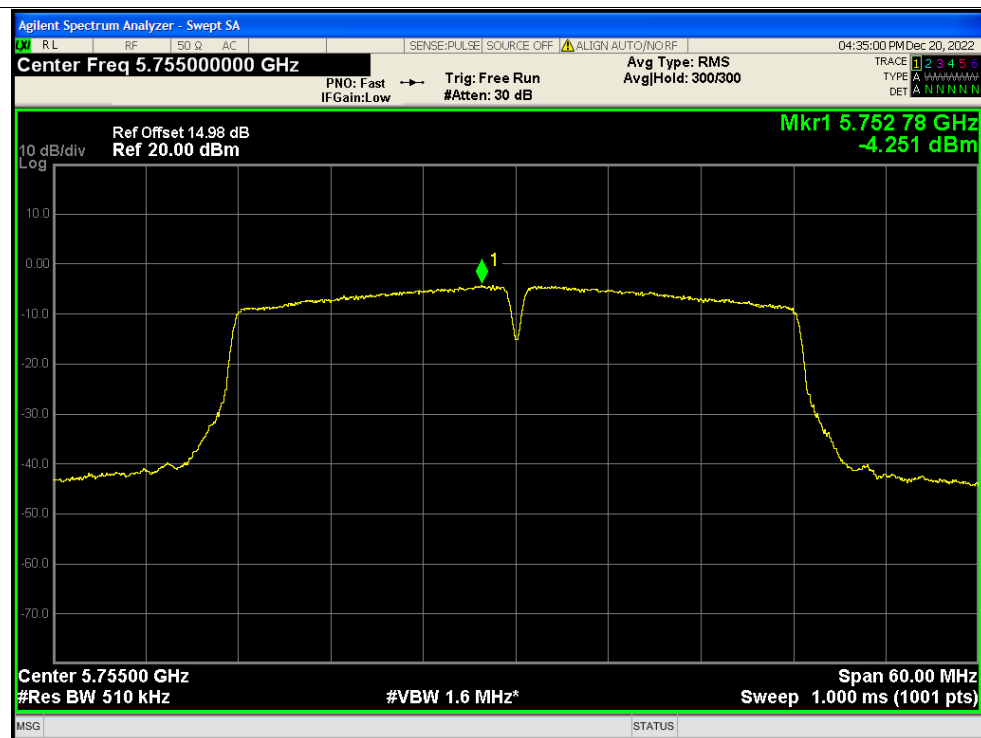


PSD NVNT ac40 5710MHz Ant1

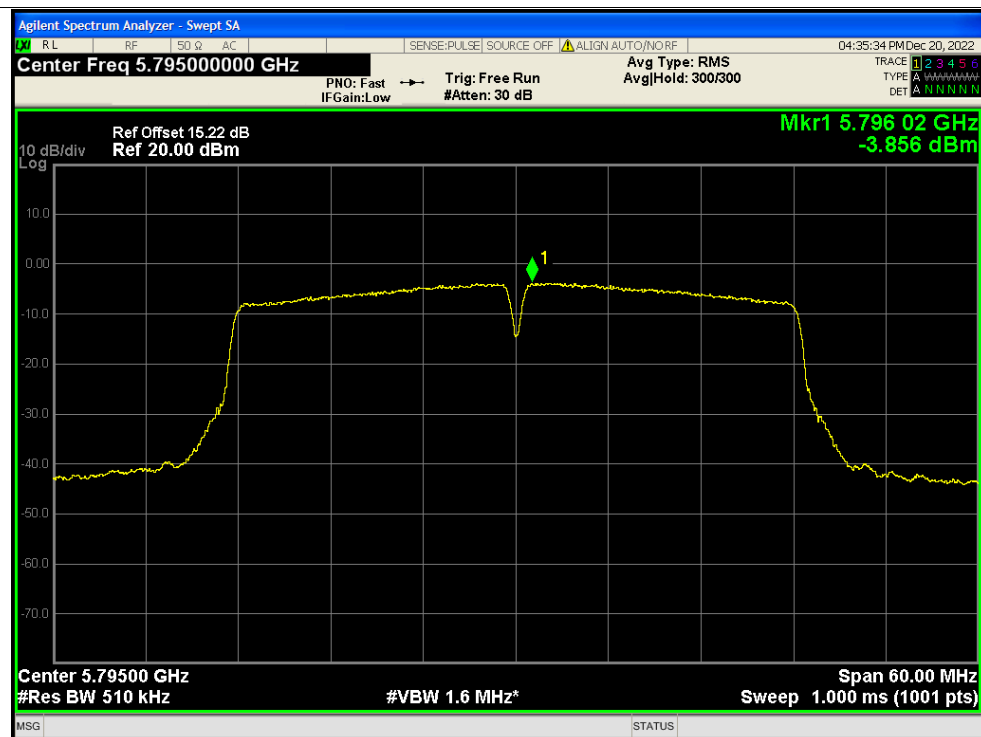




PSD NVNT ac40 5755MHz Ant1

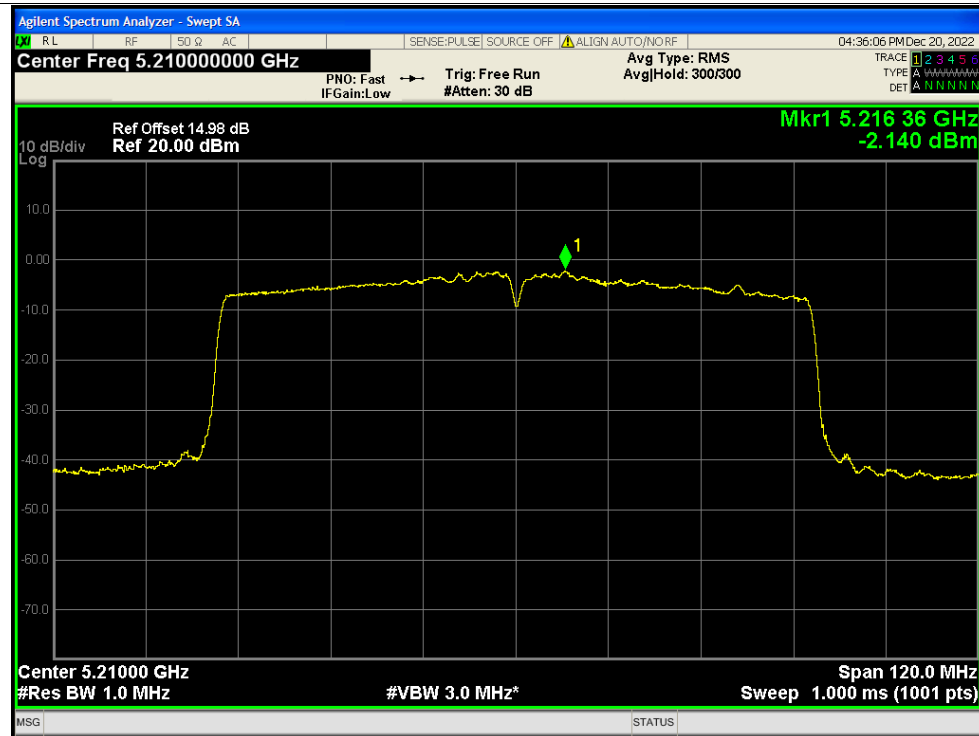


PSD NVNT ac40 5795MHz Ant1

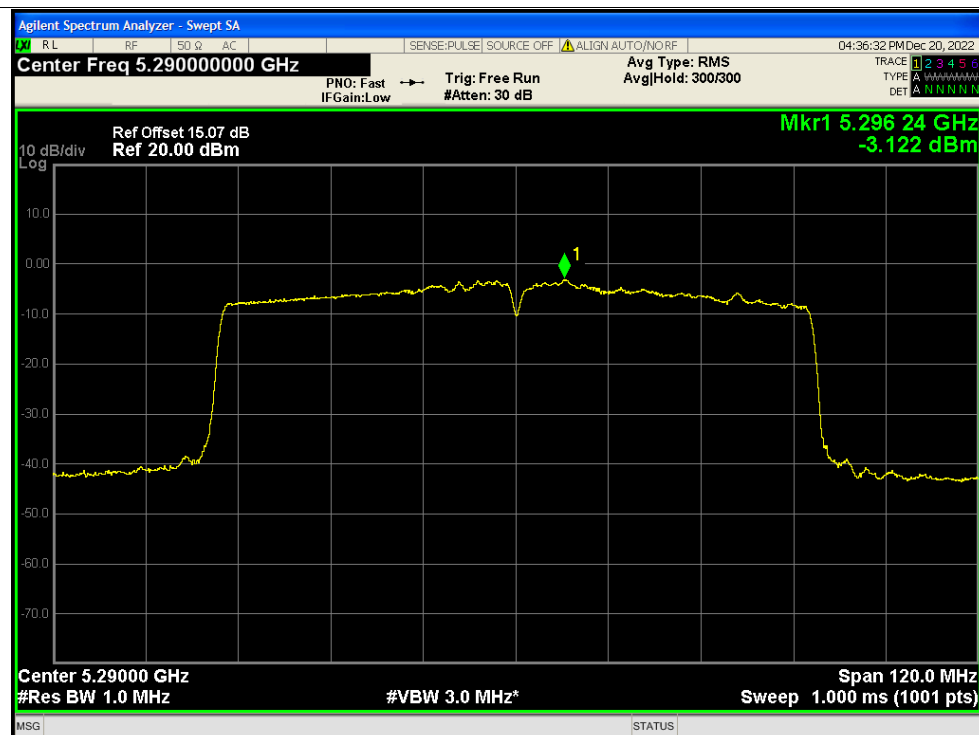




PSD NVNT ac80 5210MHz Ant1

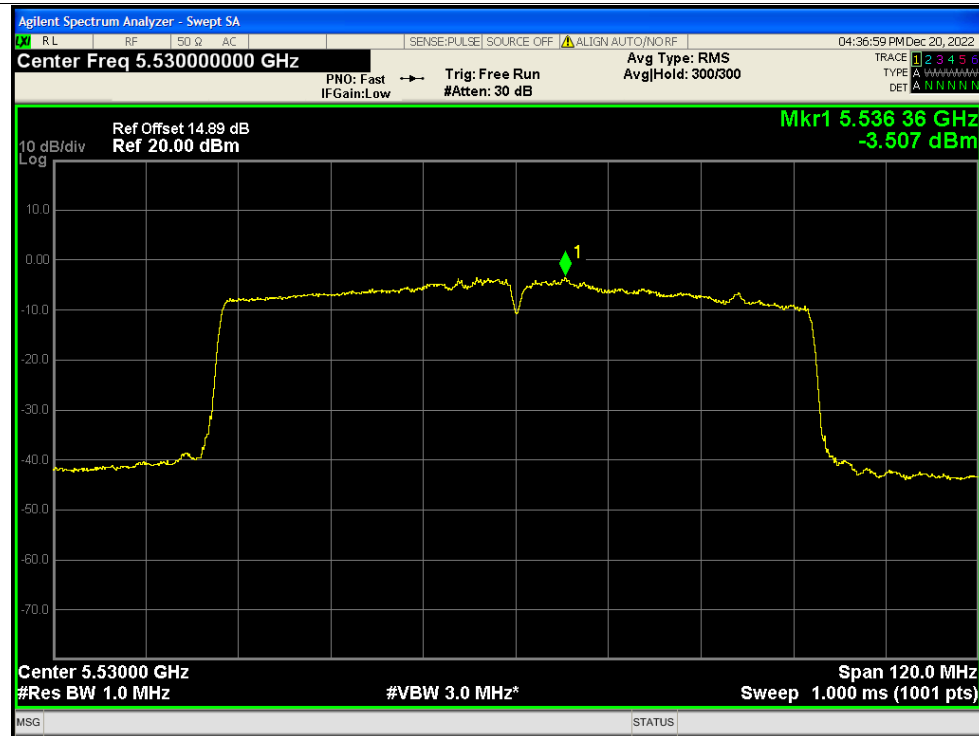


PSD NVNT ac80 5290MHz Ant1

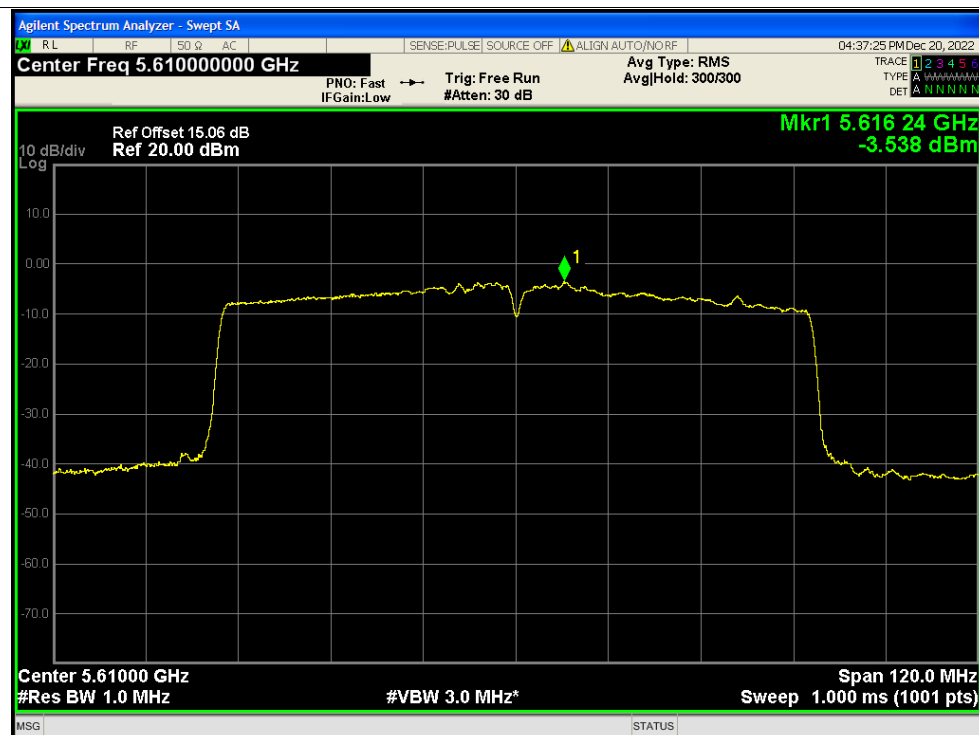




PSD NVNT ac80 5530MHz Ant1

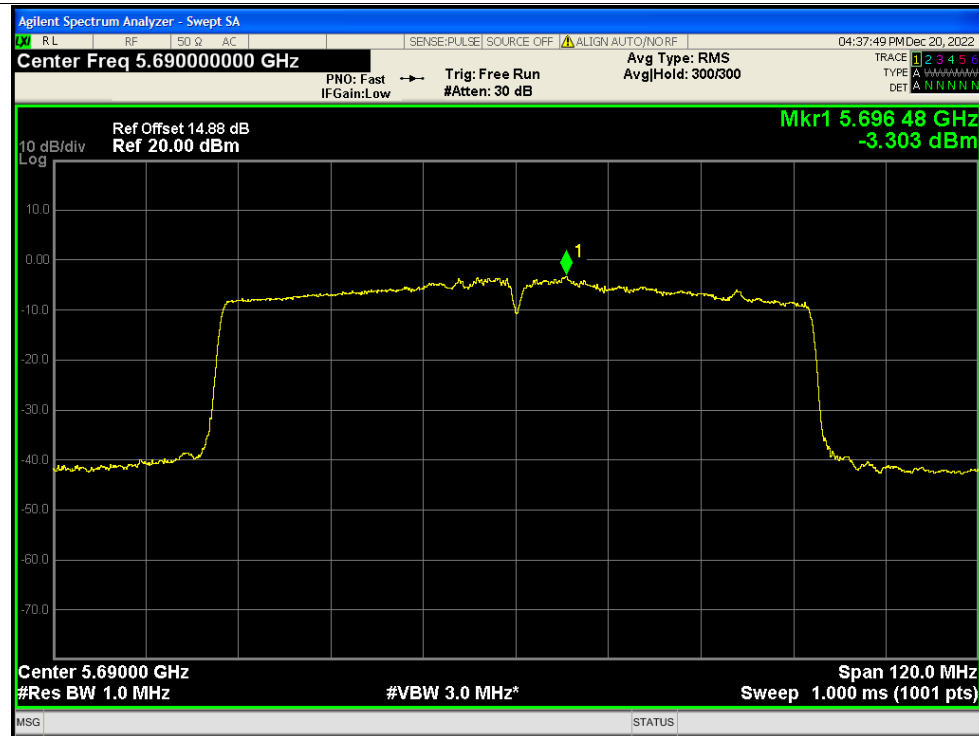


PSD NVNT ac80 5610MHz Ant1

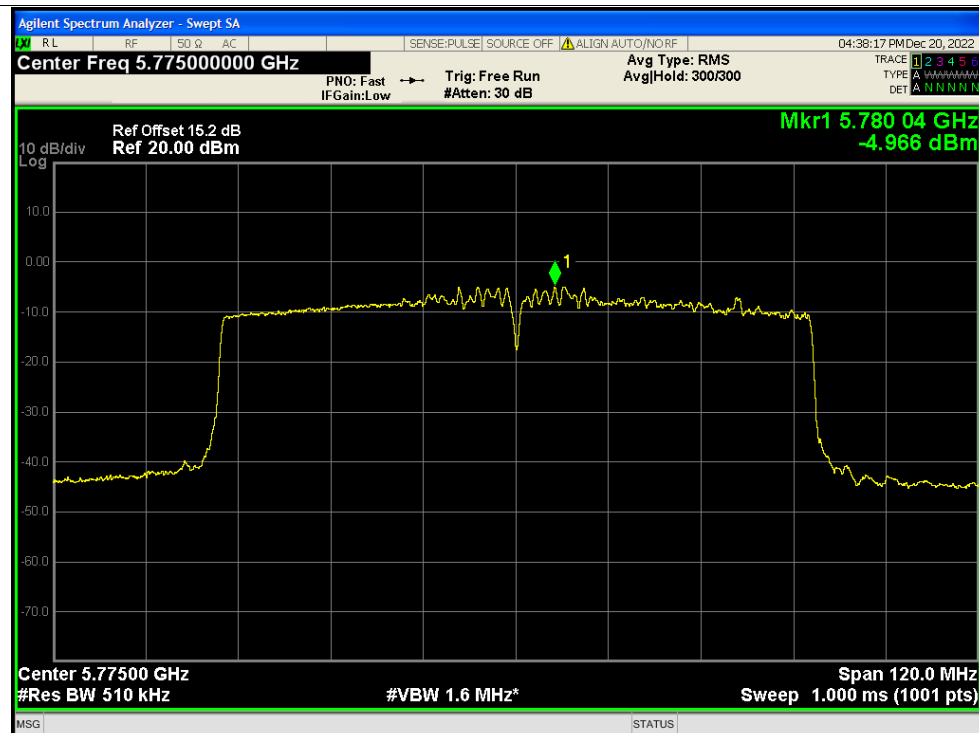




PSD NVNT ac80 5690MHz Ant1



PSD NVNT ac80 5775MHz Ant1



**A.5. Frequency Stability**

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
20C 3.0V	a	5180	Ant1	5179.986	-14000	-2.7	25	Pass
20C 4.4V	a	5180	Ant1	5179.986	-14000	-2.7	25	Pass
-30C 3.85V	a	5180	Ant1	5179.986	-14000	-2.7	25	Pass
-20C 3.85V	a	5180	Ant1	5179.986	-14000	-2.7	25	Pass
-10C 3.85V	a	5180	Ant1	5179.986	-14000	-2.7	25	Pass
0C 3.85V	a	5180	Ant1	5179.986	-14000	-2.7	25	Pass
10C 3.85V	a	5180	Ant1	5179.986	-14000	-2.7	25	Pass
20C 3.85V	a	5180	Ant1	5179.986	-14000	-2.7	25	Pass
30C 3.85V	a	5180	Ant1	5179.986	-14000	-2.7	25	Pass
40C 3.85V	a	5180	Ant1	5179.986	-14000	-2.7	25	Pass
50C 3.85V	a	5180	Ant1	5179.985	-15000	-2.9	25	Pass
20C 3.0V	a	5260	Ant1	5259.984	-16000	-3.04	25	Pass
20C 4.4V	a	5260	Ant1	5259.984	-16000	-3.04	25	Pass
-30C 3.85V	a	5260	Ant1	5259.984	-16000	-3.04	25	Pass
-20C 3.85V	a	5260	Ant1	5259.984	-16000	-3.04	25	Pass
-10C 3.85V	a	5260	Ant1	5259.984	-16000	-3.04	25	Pass
0C 3.85V	a	5260	Ant1	5259.984	-16000	-3.04	25	Pass
10C 3.85V	a	5260	Ant1	5259.984	-16000	-3.04	25	Pass
20C 3.85V	a	5260	Ant1	5259.984	-16000	-3.04	25	Pass
30C 3.85V	a	5260	Ant1	5259.984	-16000	-3.04	25	Pass
40C 3.85V	a	5260	Ant1	5259.984	-16000	-3.04	25	Pass
50C 3.85V	a	5260	Ant1	5259.984	-16000	-3.04	25	Pass
20C 3.0V	a	5500	Ant1	5499.981	-19000	-3.45	25	Pass
20C 4.4V	a	5500	Ant1	5499.981	-19000	-3.45	25	Pass
-30C 3.85V	a	5500	Ant1	5499.981	-19000	-3.45	25	Pass
-20C 3.85V	a	5500	Ant1	5499.981	-19000	-3.45	25	Pass
-10C 3.85V	a	5500	Ant1	5499.981	-19000	-3.45	25	Pass
0C 3.85V	a	5500	Ant1	5499.981	-19000	-3.45	25	Pass
10C 3.85V	a	5500	Ant1	5499.981	-19000	-3.45	25	Pass
20C 3.85V	a	5500	Ant1	5499.981	-19000	-3.45	25	Pass
30C 3.85V	a	5500	Ant1	5499.981	-19000	-3.45	25	Pass
40C 3.85V	a	5500	Ant1	5499.981	-19000	-3.45	25	Pass
50C 3.85V	a	5500	Ant1	5499.981	-19000	-3.45	25	Pass
20C 3.0V	a	5745	Ant1	5744.979	-21000	-3.66	25	Pass



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20C 4.4V	a	5745	Ant1	5744.979	-21000	-3.66	25	Pass
-30C 3.85V	a	5745	Ant1	5744.979	-21000	-3.66	25	Pass
-20C 3.85V	a	5745	Ant1	5744.979	-21000	-3.66	25	Pass
-10C 3.85V	a	5745	Ant1	5744.979	-21000	-3.66	25	Pass
0C 3.85V	a	5745	Ant1	5744.979	-21000	-3.66	25	Pass
10C 3.85V	a	5745	Ant1	5744.979	-21000	-3.66	25	Pass
20C 3.85V	a	5745	Ant1	5744.979	-21000	-3.66	25	Pass
30C 3.85V	a	5745	Ant1	5744.979	-21000	-3.66	25	Pass
40C 3.85V	a	5745	Ant1	5744.979	-21000	-3.66	25	Pass
50C 3.85V	a	5745	Ant1	5744.979	-21000	-3.66	25	Pass



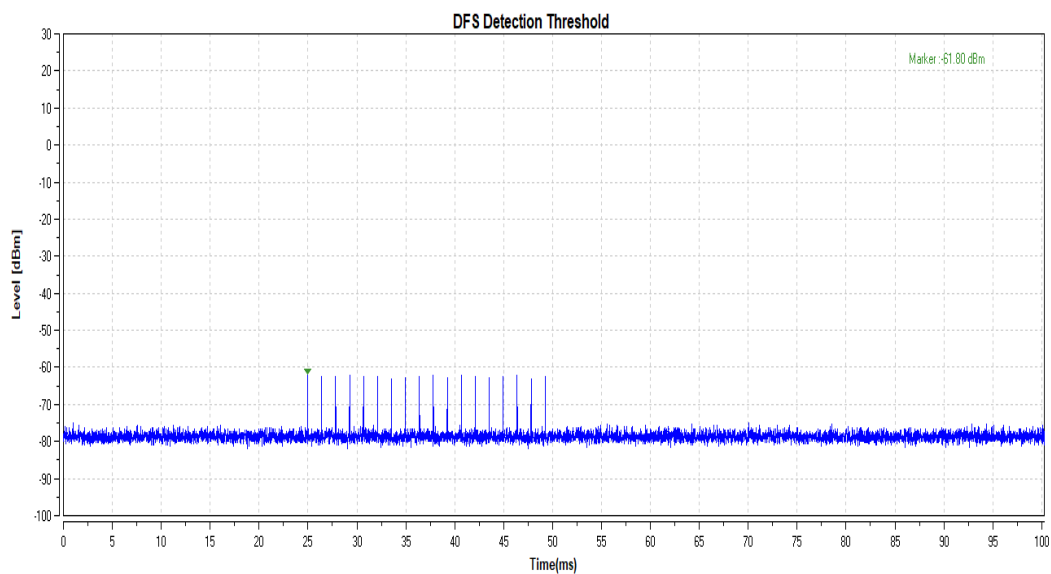


A.6. Dynamic Frequency Selection

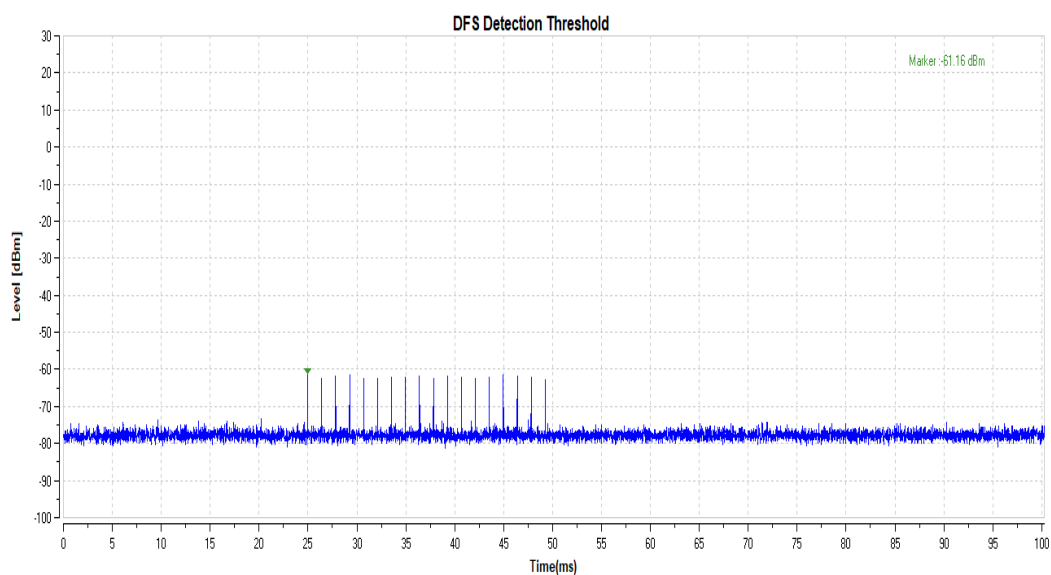
Detection Thresholds

TestMode	Channel	Radar Type	Result	Limit[dbm]	Verdict
11AC20SISO	5320	Reference	-61.80	-57.50	PASS
	5500	Reference	-61.16	-57.50	PASS
11AC80SISO	5290	Reference	-61.55	-57.50	PASS
	5530	Reference	-61.40	-57.50	PASS

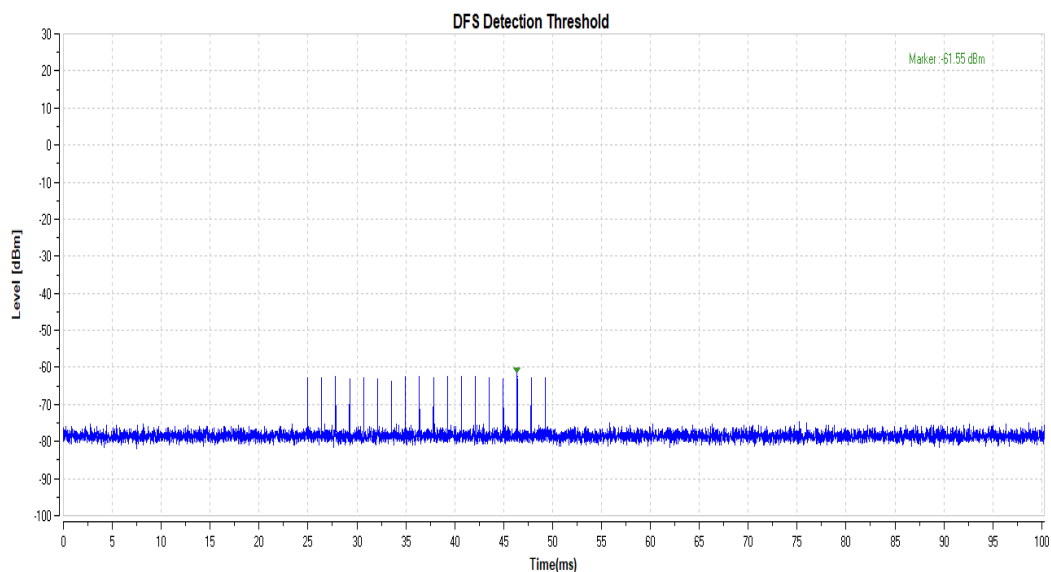
11AC20SISO_5320_Reference



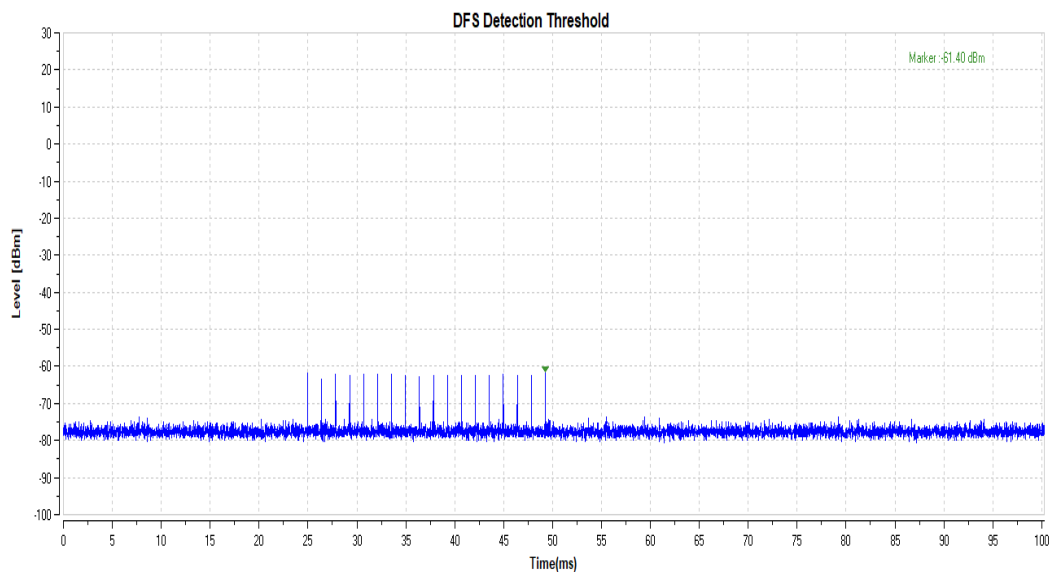
11AC20SISO_5500_Reference



11AC80SISO_5290_Reference



11AC80SISO_5530_Reference

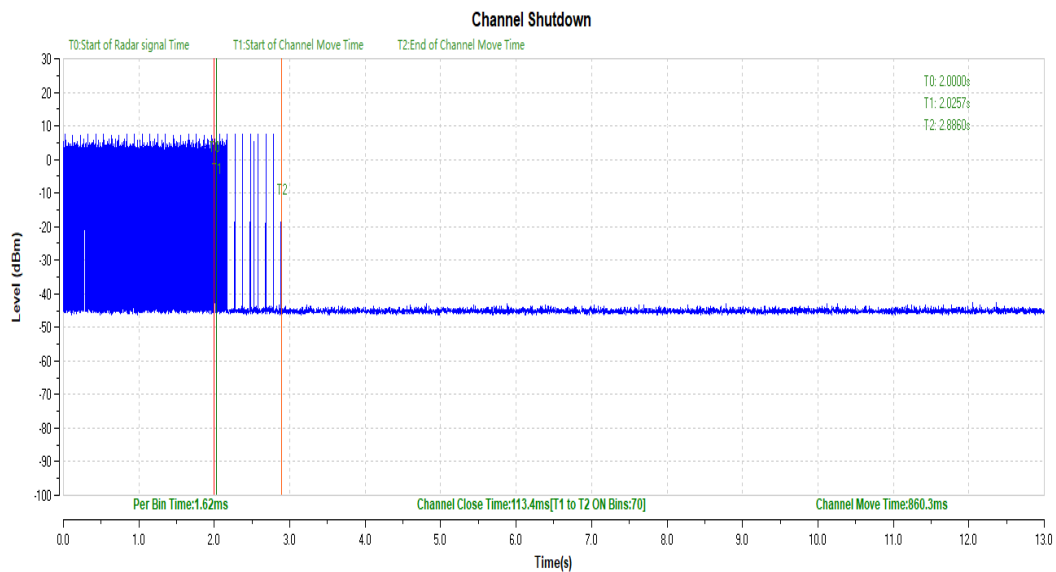




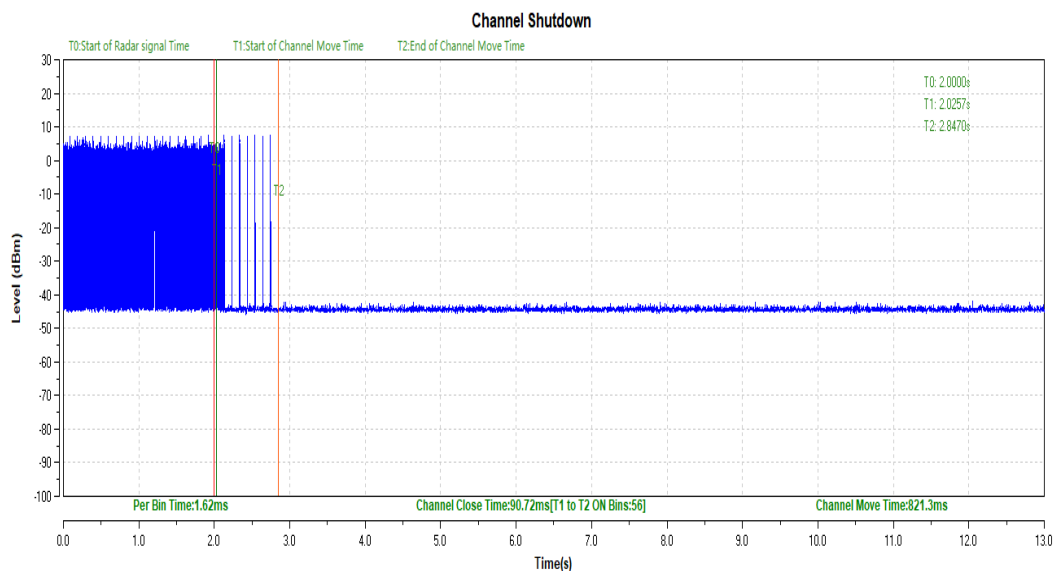
Channel Move Time and Channel Closing Transmission Time

TestMode	Channel	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AC20SISO	5320	113.4	1000	860.3	10000	PASS
	5500	90.72	1000	821.3	10000	PASS
11AC80SISO	5290	72.9	1000	800.2	10000	PASS
	5530	92.34	1000	819.7	10000	PASS

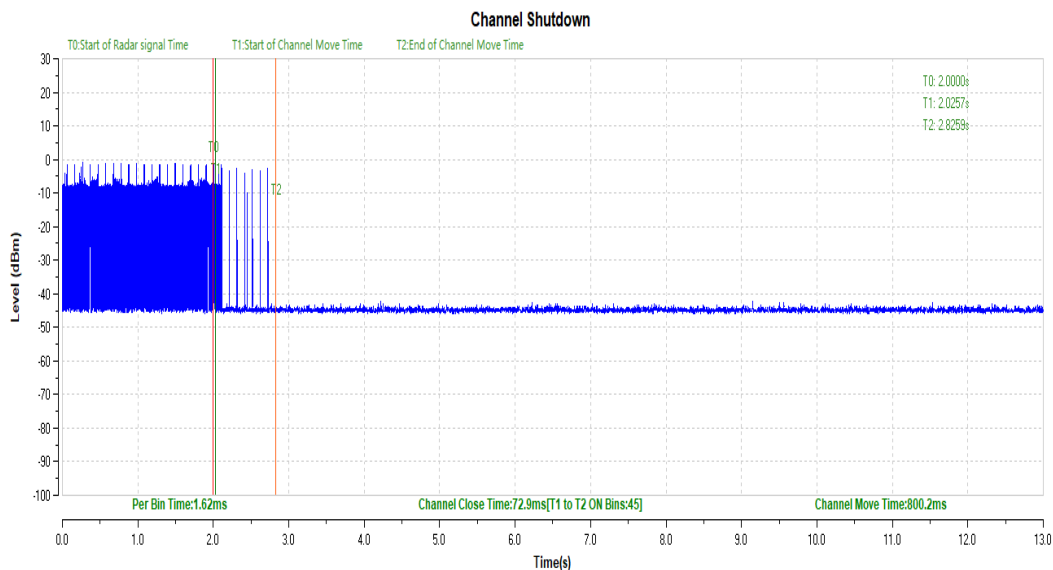
11AC20SISO_5320



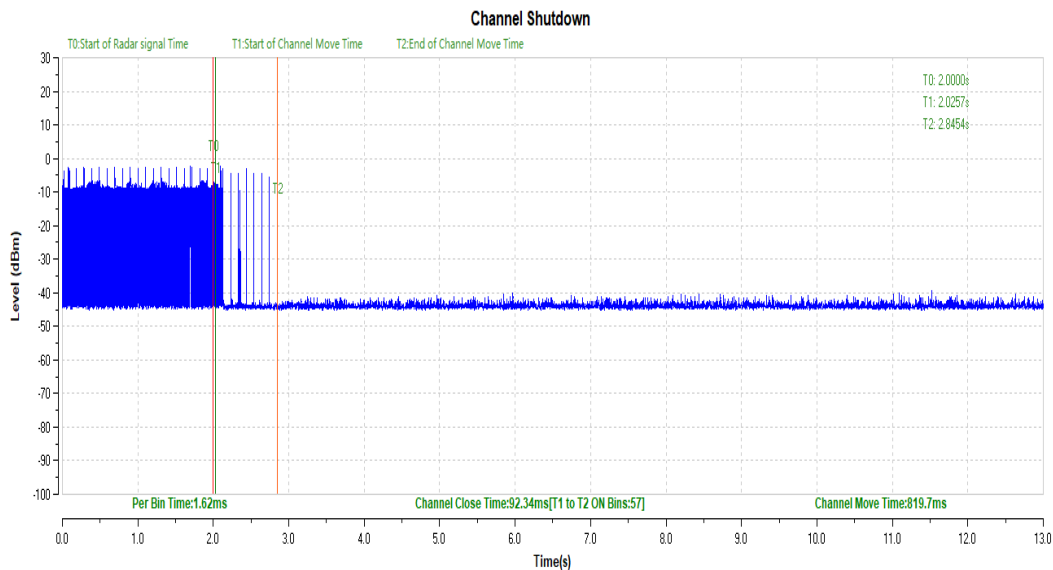
11AC20SISO_5500



11AC80SISO_5290



11AC80SISO_5530



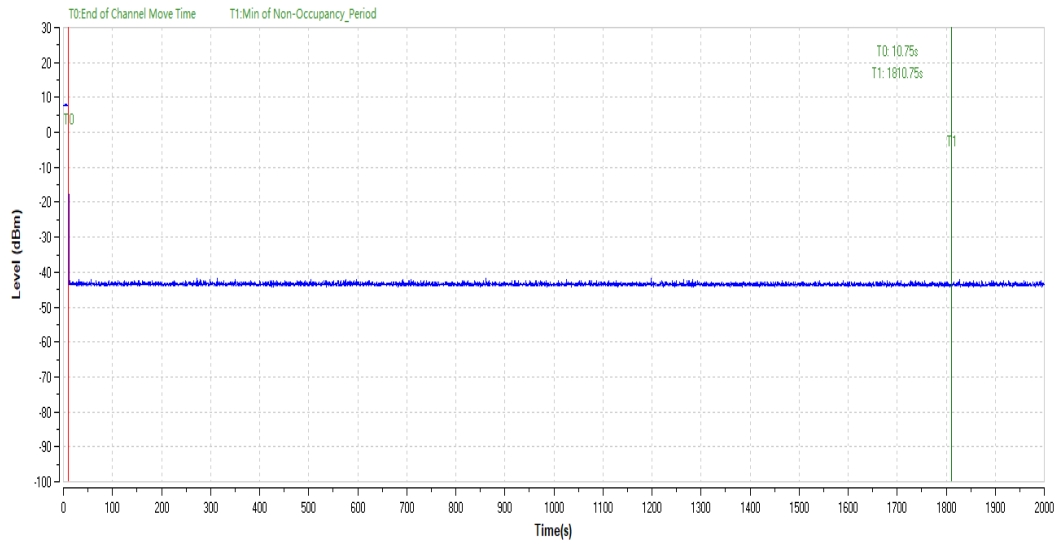


Non-Occupancy Period

TestMode	Channel	Result	Limit[s]	Verdict
11AC20SISO	5320	see test graph	≥1800	PASS
	5500	see test graph	≥1800	PASS

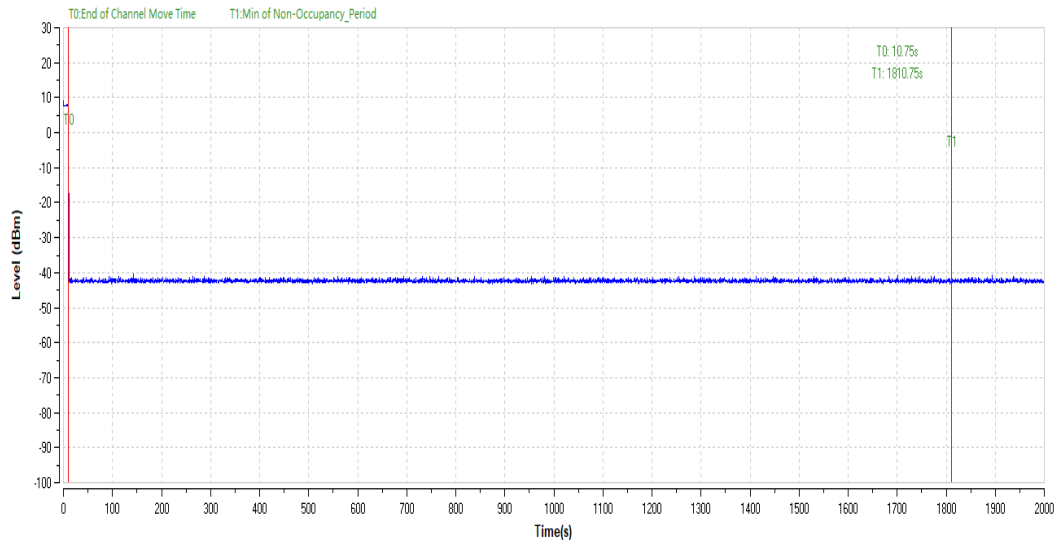
11AC20SISO_5320

Non-Occupancy Period



11AC20SISO_5500

Non-Occupancy Period





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 + USB CABLE +WIFI TX

Test voltage: AC 120V/60Hz

The measurement results are obtained as below:

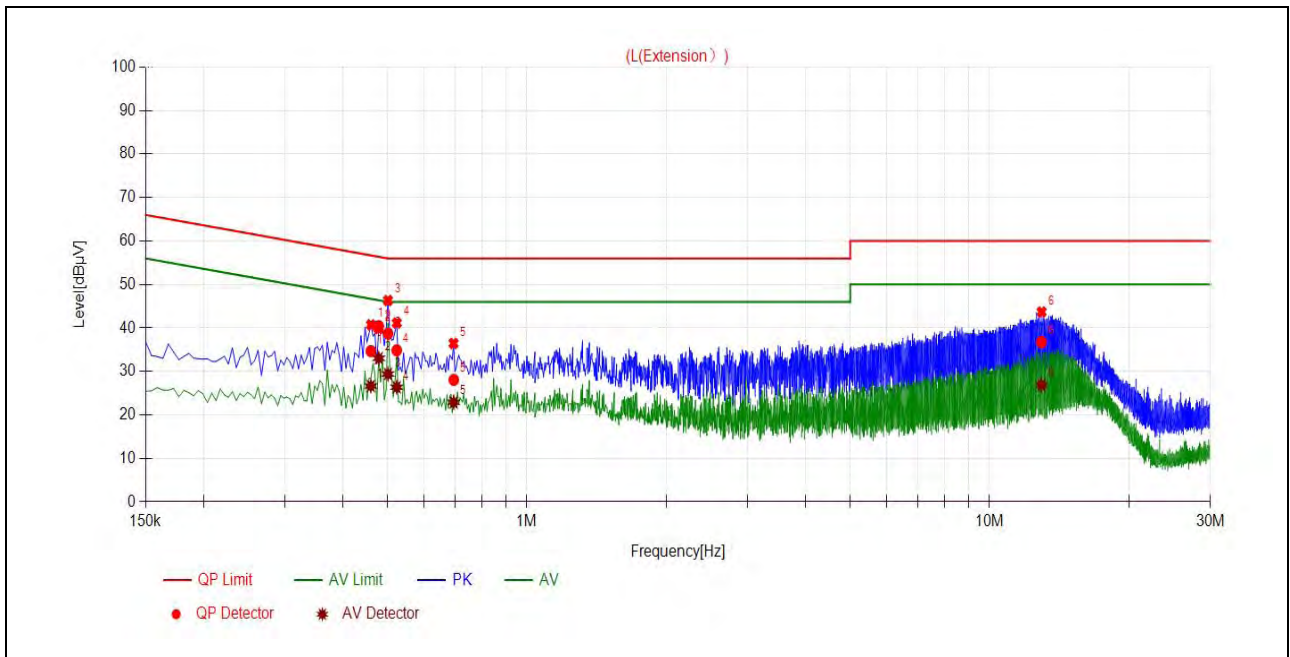
$$E \text{ [dB}\mu\text{V]} = U_R + L_{\text{Cable loss}} \text{ [dB]} + A_{\text{Factor}}$$

U_R : Receiver Reading

A_{Factor} : Voltage division factor of LISN

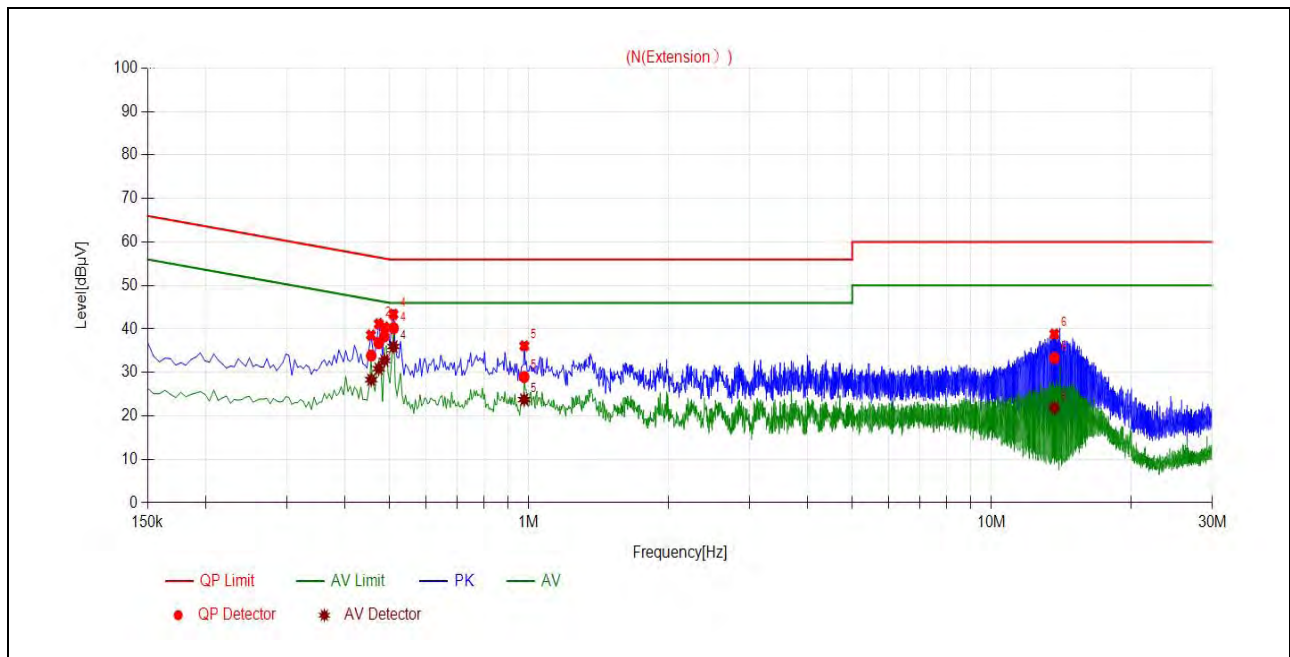


B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.4601	34.67	26.64	56.69	46.69	Line	PASS
2	0.4785	40.41	33.03	56.36	46.36		PASS
3	0.5012	38.70	29.40	56.00	46.00		PASS
4	0.5234	34.84	26.37	56.00	46.00		PASS
5	0.6949	28.06	22.89	56.00	46.00		PASS
6	12.9459	36.74	26.88	60.00	50.00		PASS



(N Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.4564	33.88	28.34	56.76	46.76	Neutral	PASS
2	0.4737	36.72	30.85	56.45	46.45		PASS
3	0.4873	38.30	32.76	56.21	46.21		PASS
4	0.5100	40.17	35.95	56.00	46.00		PASS
5	0.9772	28.97	23.74	56.00	46.00		PASS
6	13.6704	33.31	21.89	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

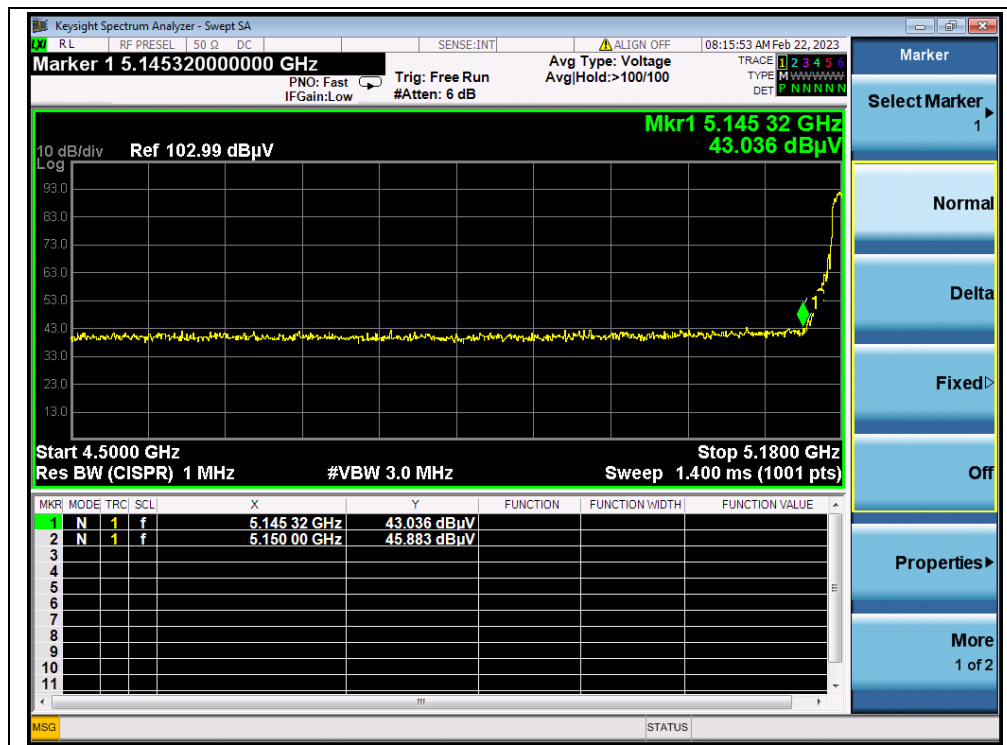
A_{Factor} : Antenna Factor at 3m

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.

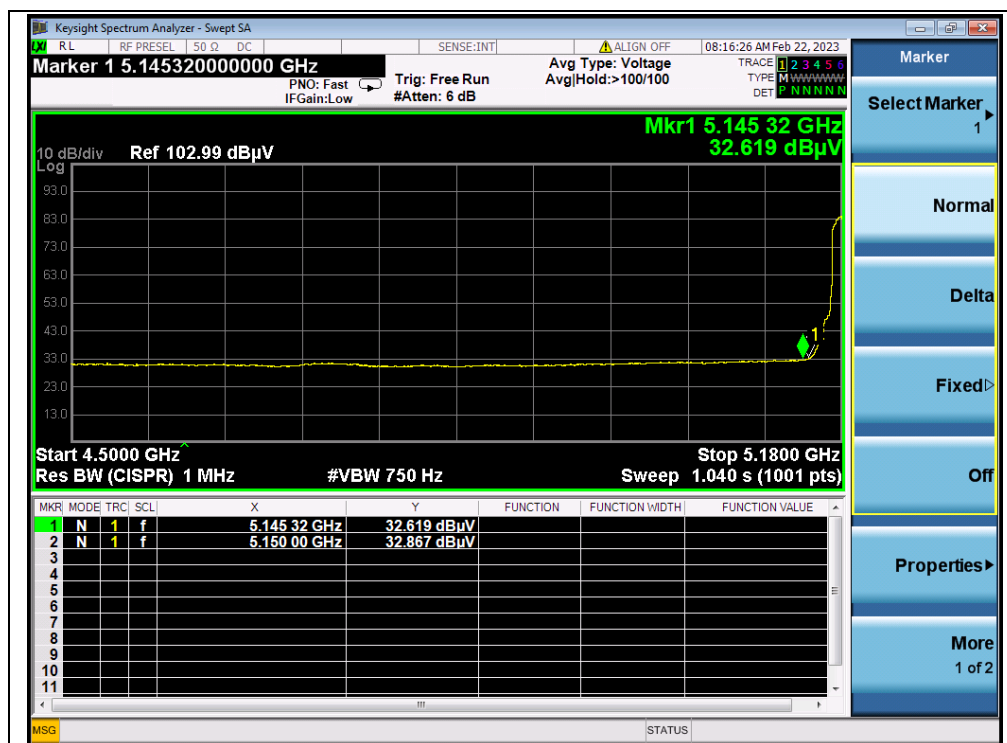
Note 2 All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.

802.11a Mode

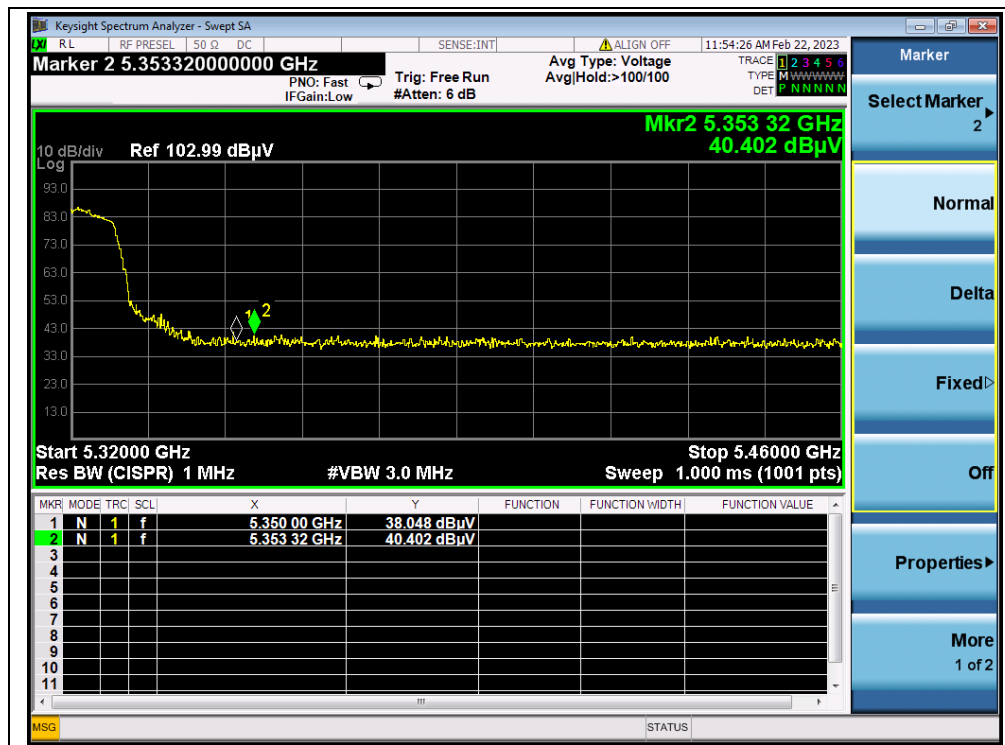
Channel	Frequency (MHz)	Detector	Receiver Reading	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV	U_R (dB μ V)					
36	5150.00	PK	45.88	-19.54	32.20	58.54	74	PASS
36	5150.00	AV	32.87	-19.54	32.20	45.53	54	PASS
64	5353.32	PK	40.40	-18.80	32.20	53.80	74	PASS
64	5350.00	AV	30.11	-18.80	32.20	43.51	54	PASS
100	5452.88	PK	41.51	-19.20	32.20	54.51	74	PASS
100	5468.69	AV	30.88	-19.20	32.20	43.88	54	PASS
144	5725.00	PK	41.16	-19.20	32.20	54.16	68.23	PASS
149	5725.00	PK	48.11	-19.01	32.20	61.30	122.23	PASS
165	5853.60	PK	43.78	-19.01	32.20	56.97	114.02	PASS



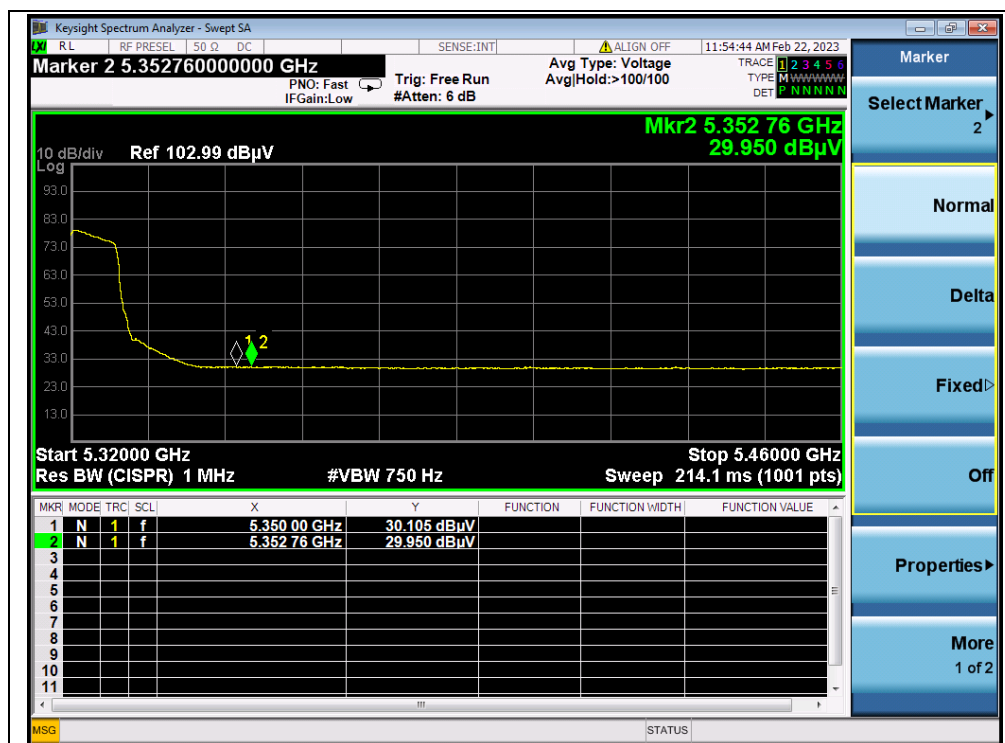
(PEAK, Channel 36, 802.11a)



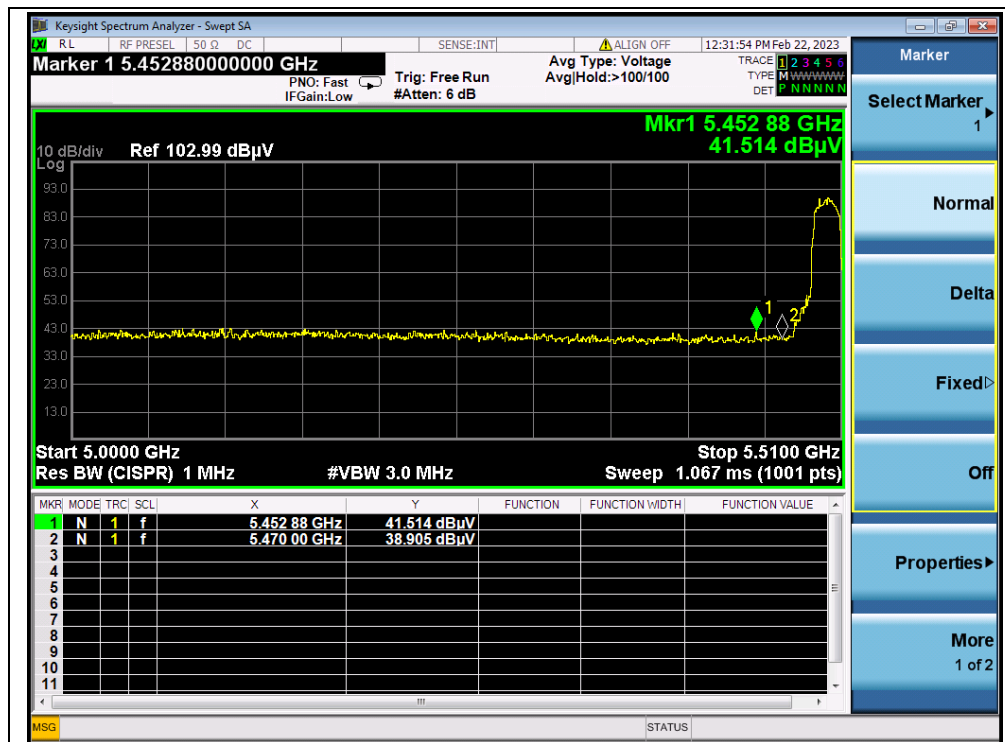
(AVERAGE, Channel 36, 802.11a)



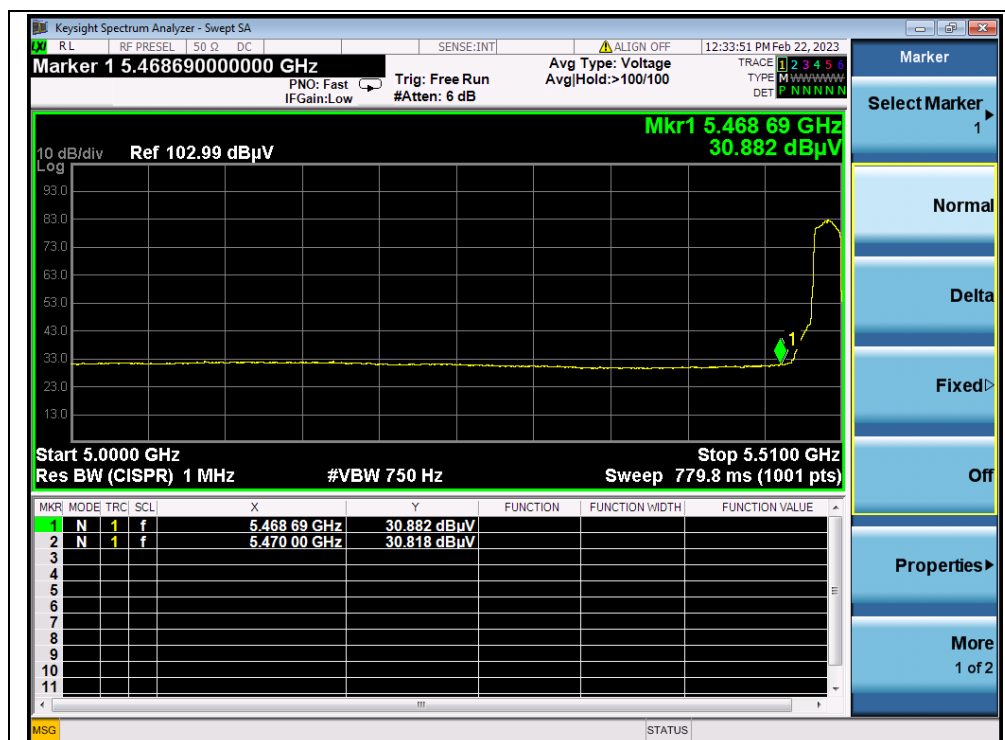
(PEAK, Channel 64, 802.11a)



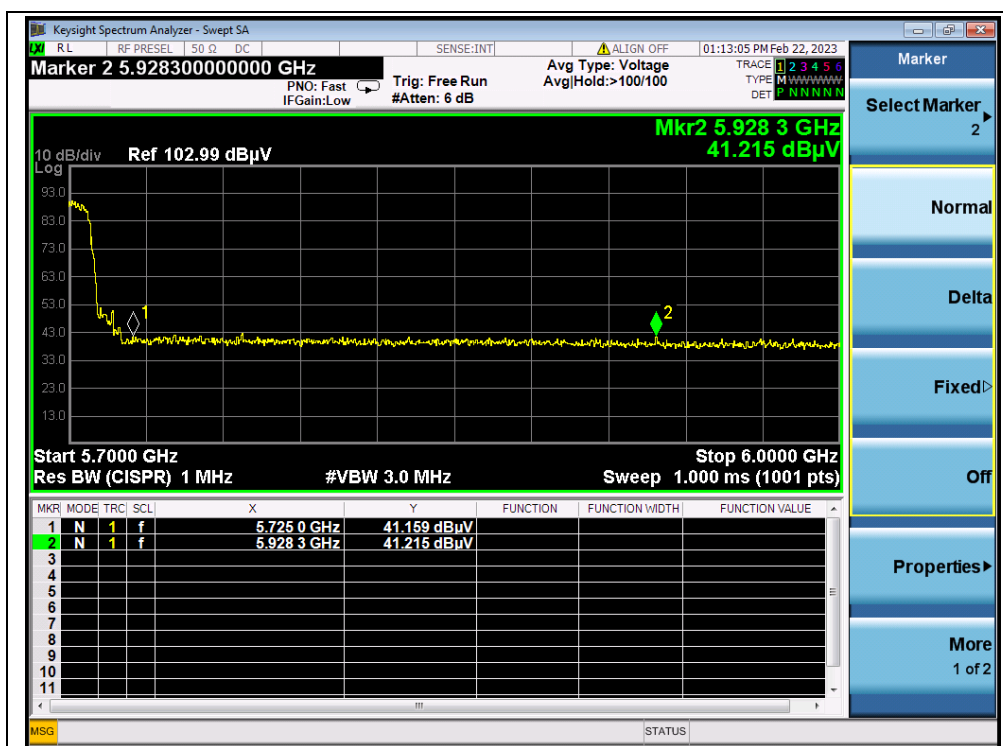
(AVERAGE, Channel 64, 802.11a)



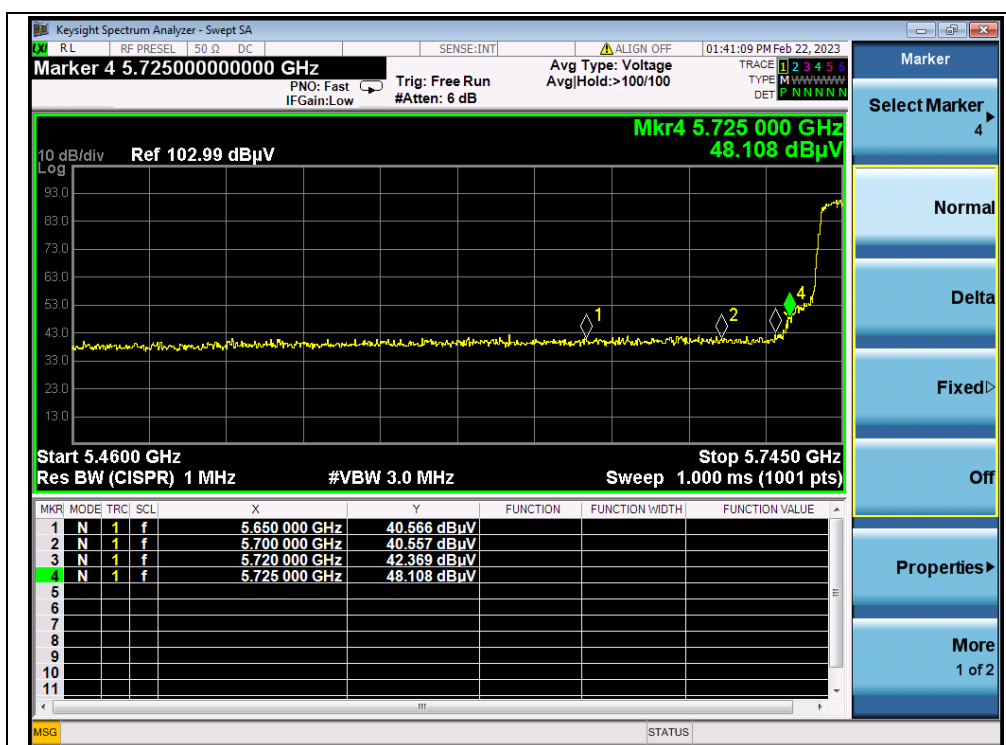
(PEAK, Channel 100, 802.11a)



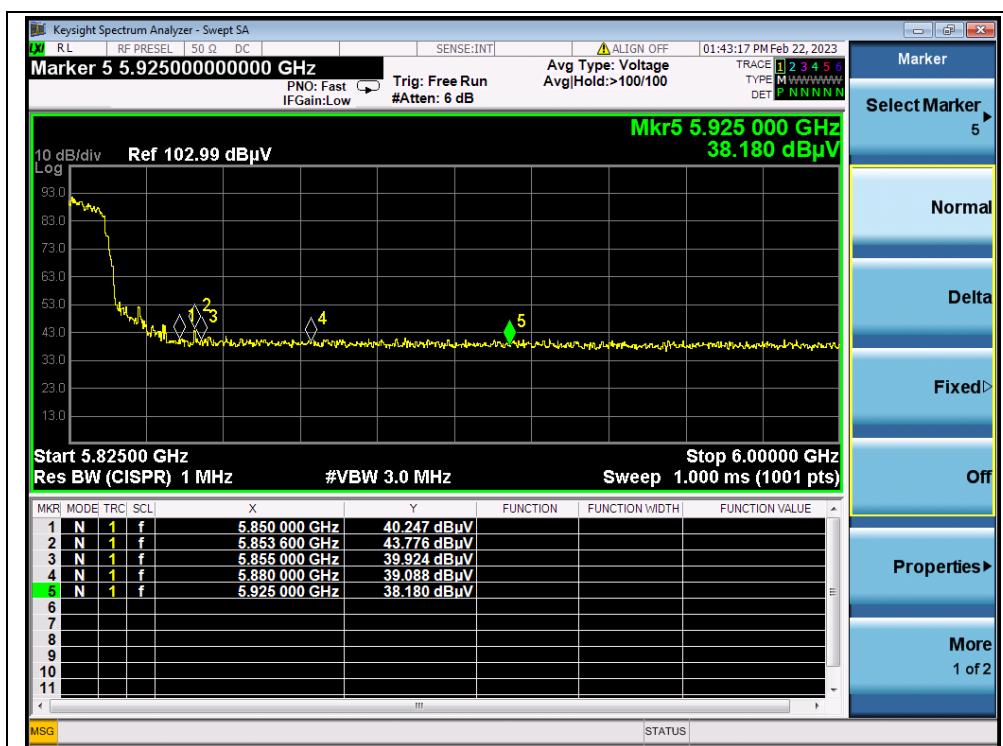
(AVERAGE, Channel 100, 802.11a)



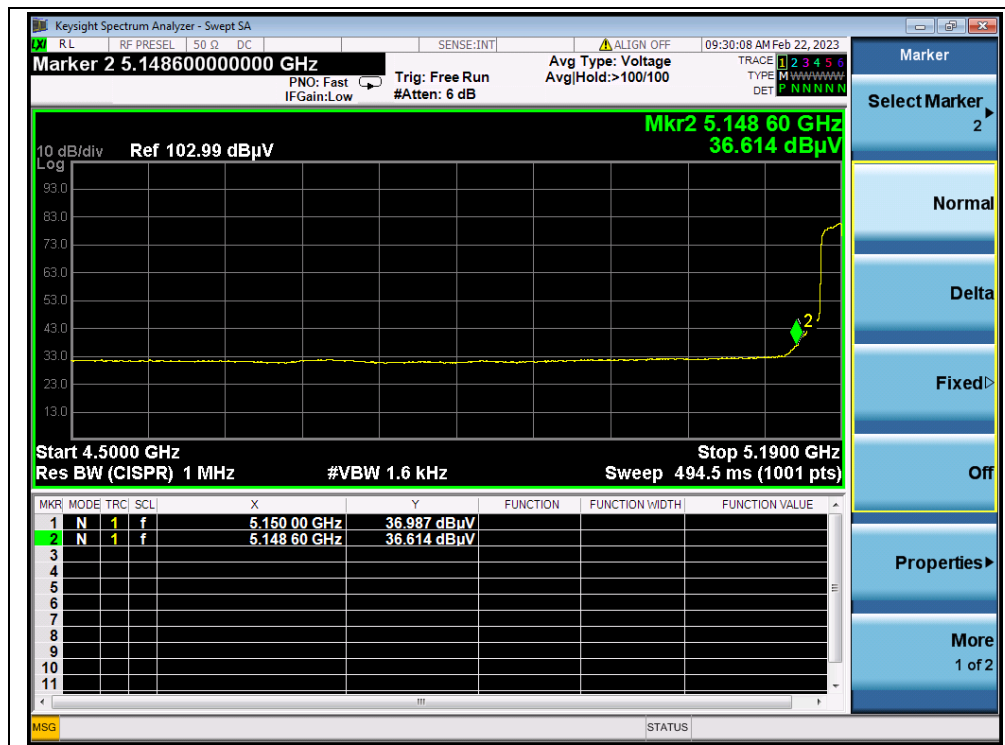
(PEAK, Channel 144, 802.11a)



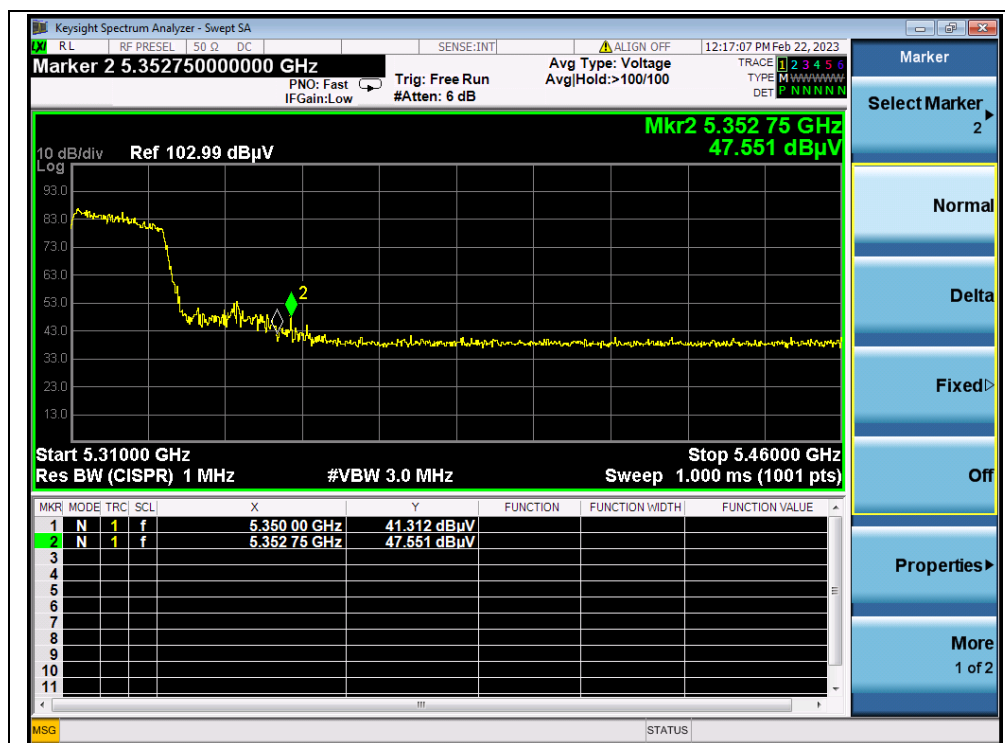
(PEAK, Channel 149, 802.11a)



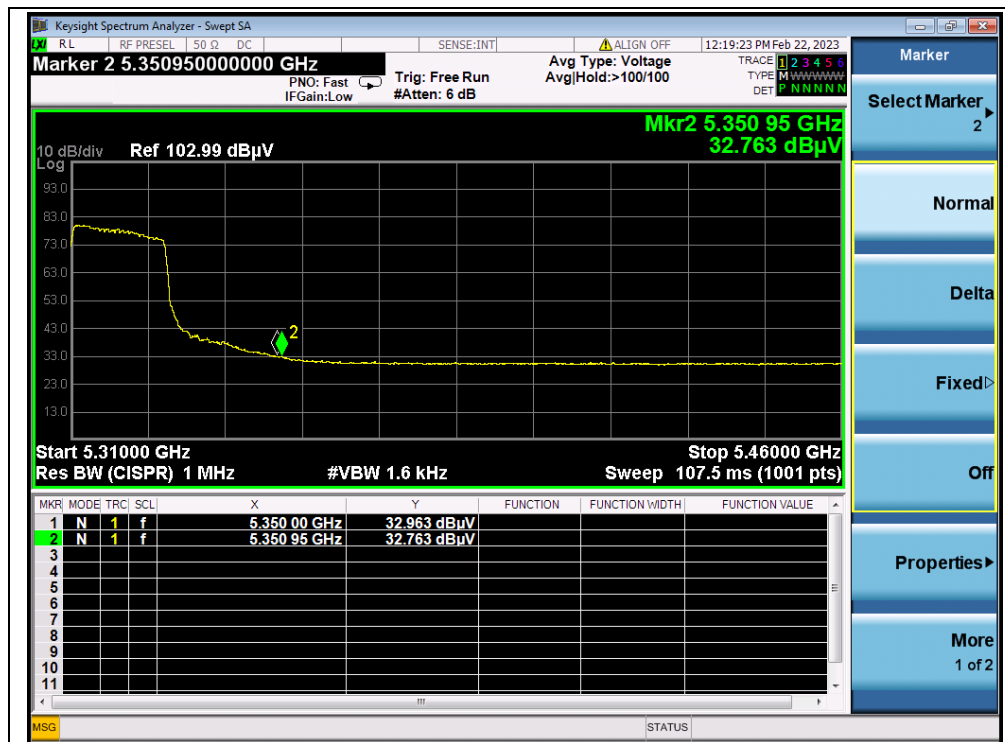
(PEAK, Channel 165, 802.11a)



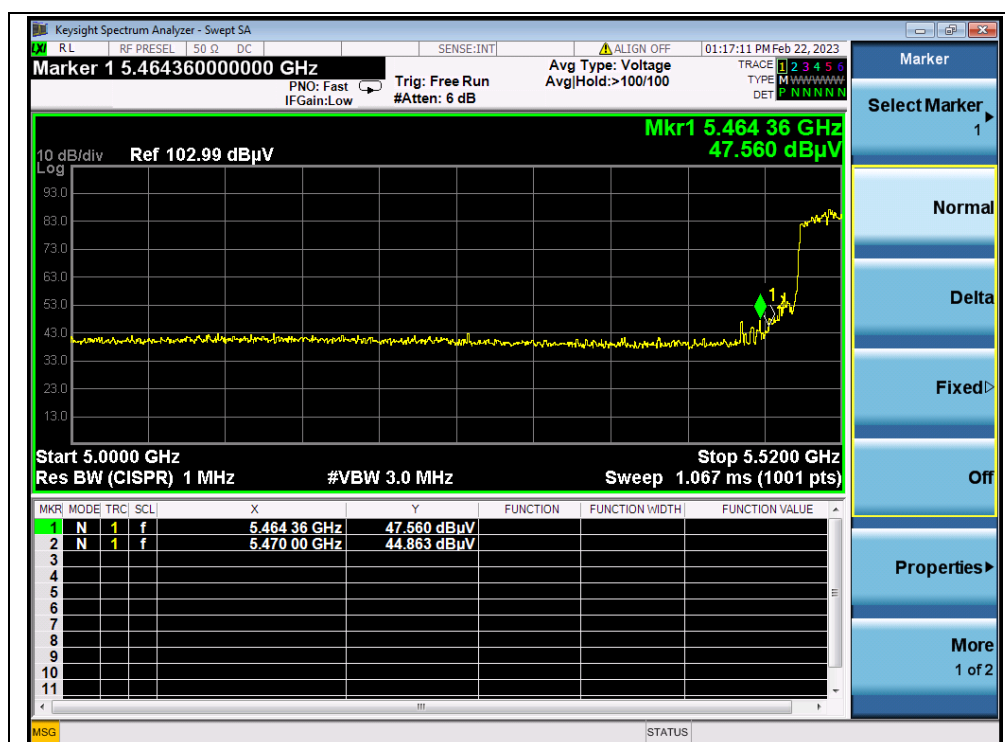
(AVERAGE, Channel 38, 802.11n (HT40))



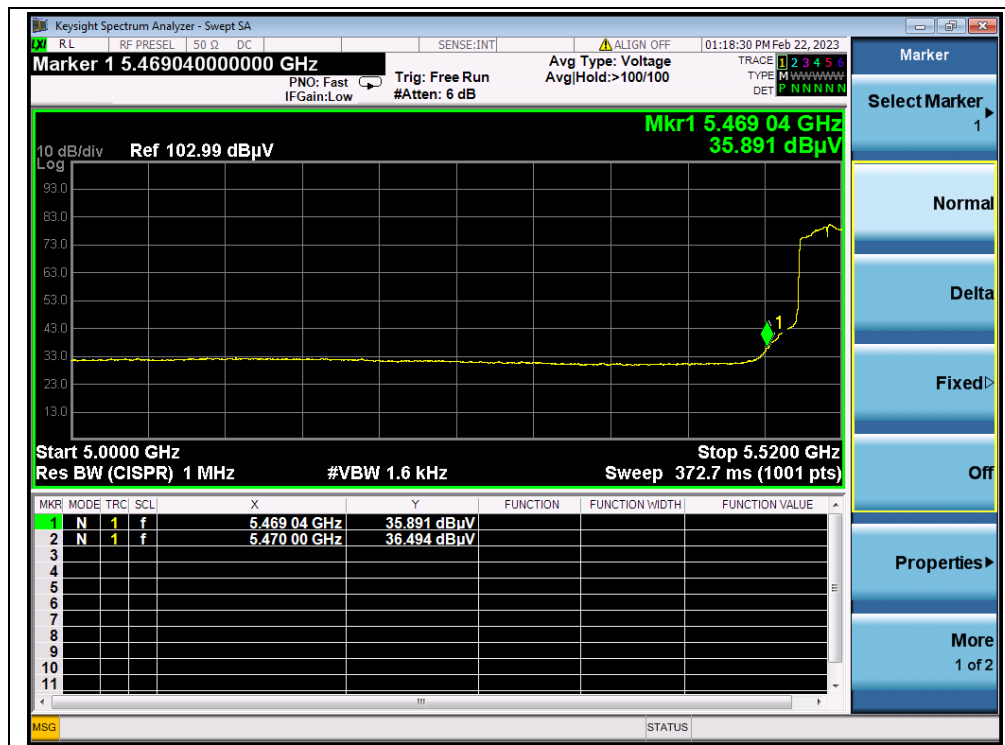
(PEAK, Channel 62, 802.11n (HT40))



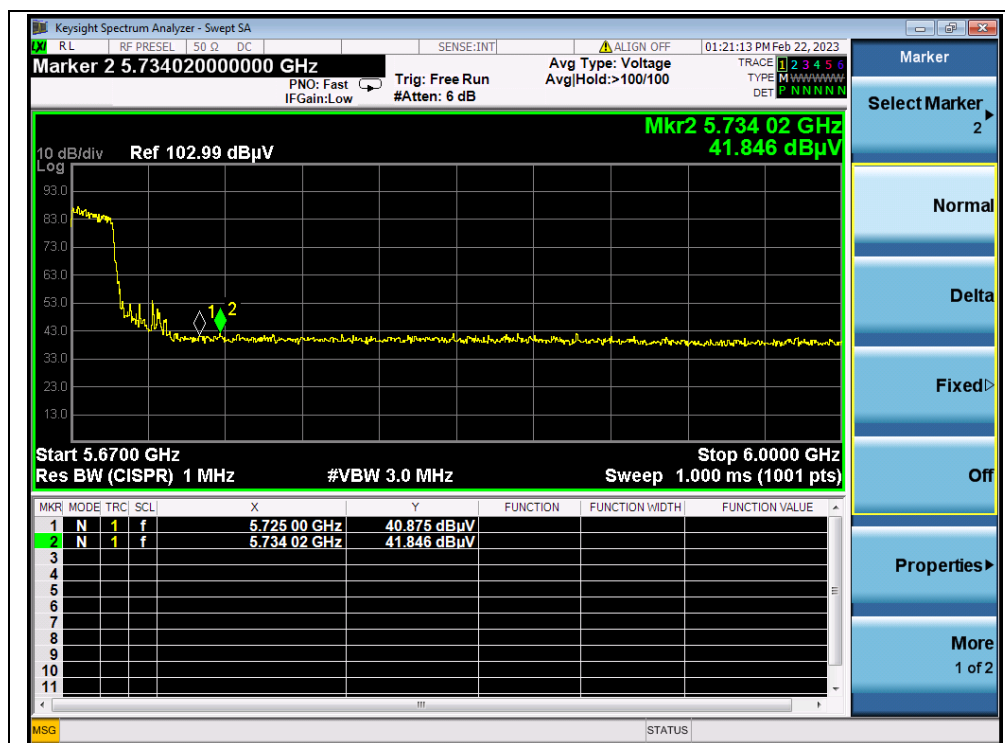
(AVERAGE, Channel 62, 802.11n (HT40))



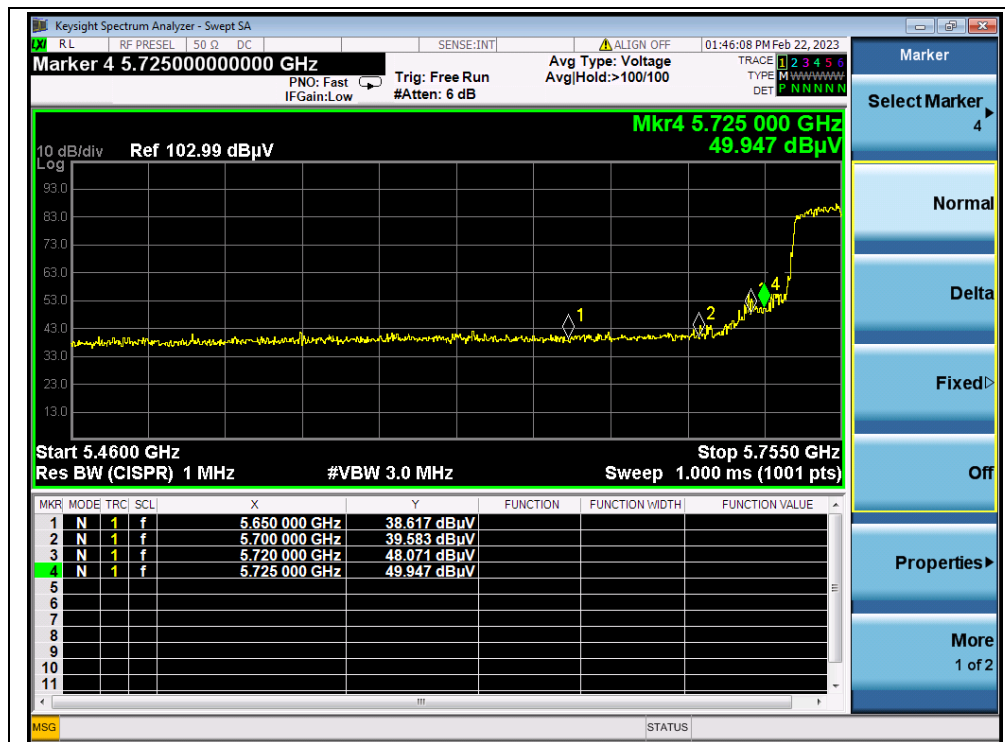
(PEAK, Channel 102, 802.11n (HT40))



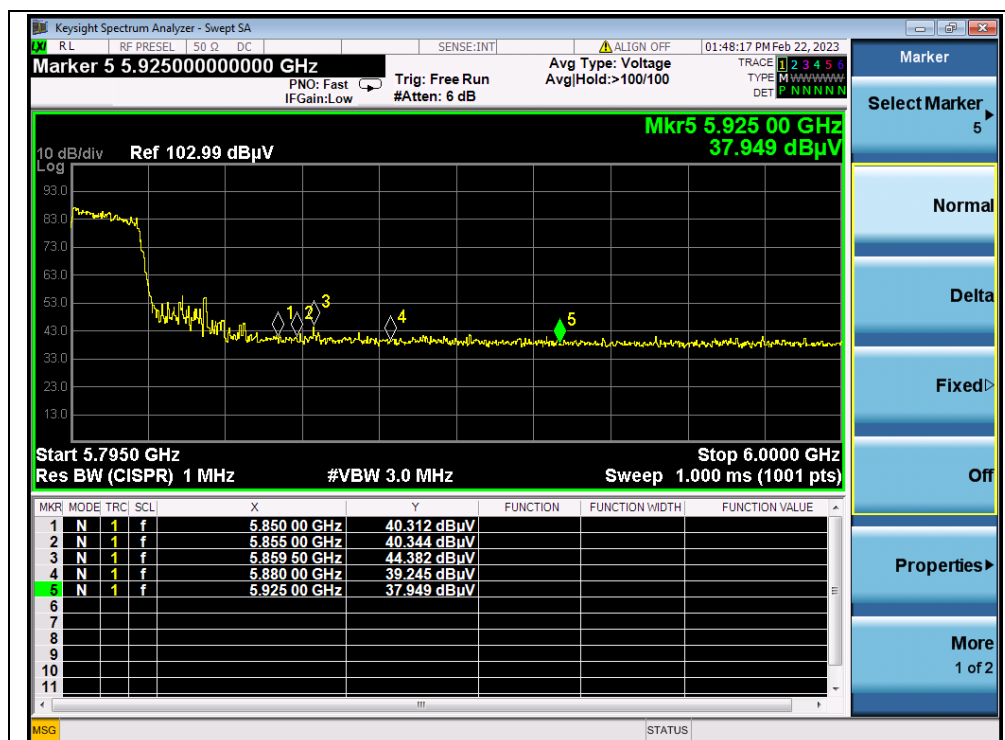
(AVERAGE, Channel 102, 802.11n (HT40))



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



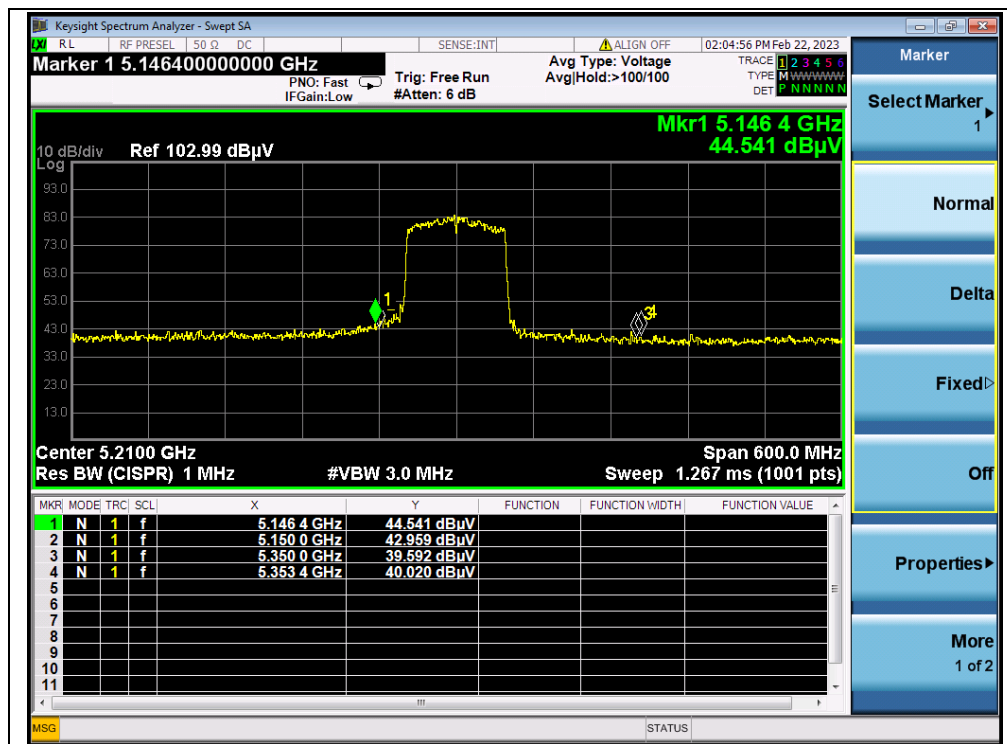
(PEAK, Channel 151, 802.11n (HT40))



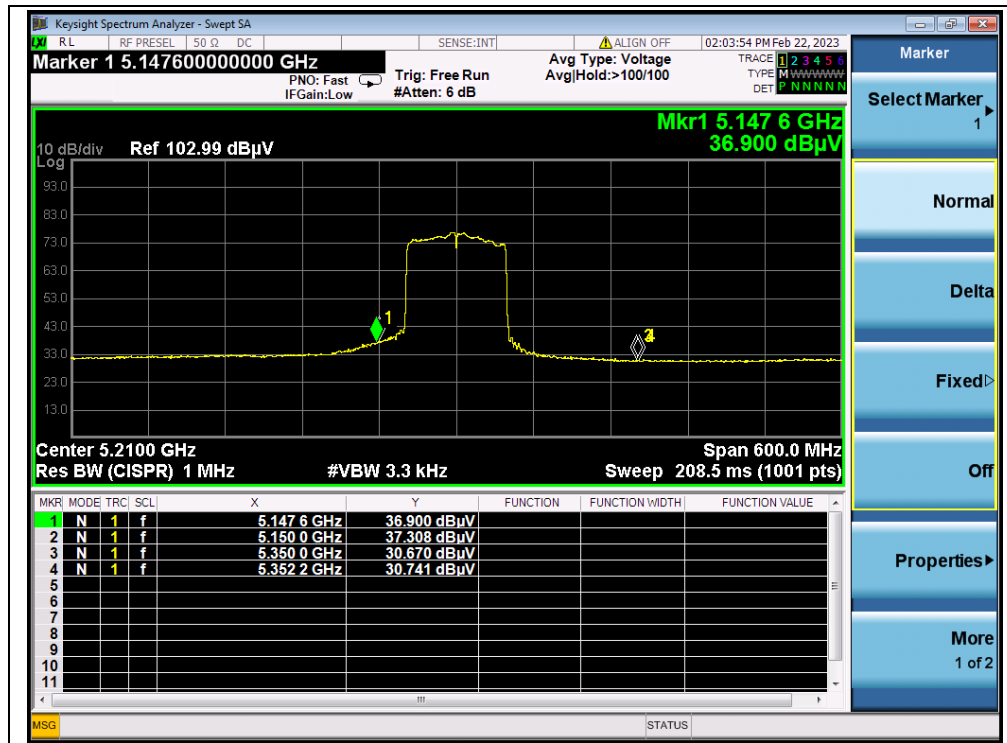
(PEAK, Channel 159, 802.11n (HT40))

**802.11ac (VHT80) Mode**

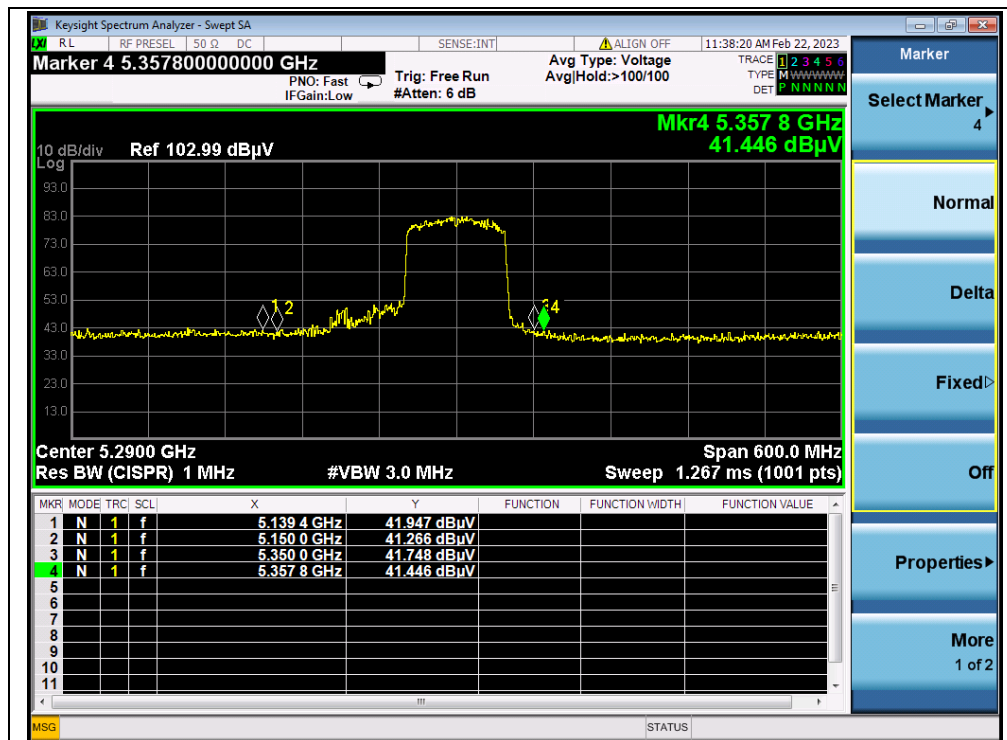
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
42	5146.40	PK	44.54	-19.54	32.20	57.20	74	PASS
42	5150.00	AV	37.31	-19.54	32.20	49.97	54	PASS
58	5139.40	PK	41.95	-18.80	32.20	55.35	74	PASS
58	5350.00	AV	34.54	-18.80	32.20	47.94	54	PASS
106	5470.00	PK	46.38	-19.20	32.20	59.38	68.23	PASS
106	5468.94	AV	37.10	-19.20	32.20	50.10	54	PASS
138	5730.12	PK	42.10	-19.20	32.20	55.10	68.23	PASS
155	5725.00	PK	51.44	-19.01	32.20	64.63	110.83	PASS
155	5864.40	PK	45.32	-19.01	32.20	58.51	122.23	PASS



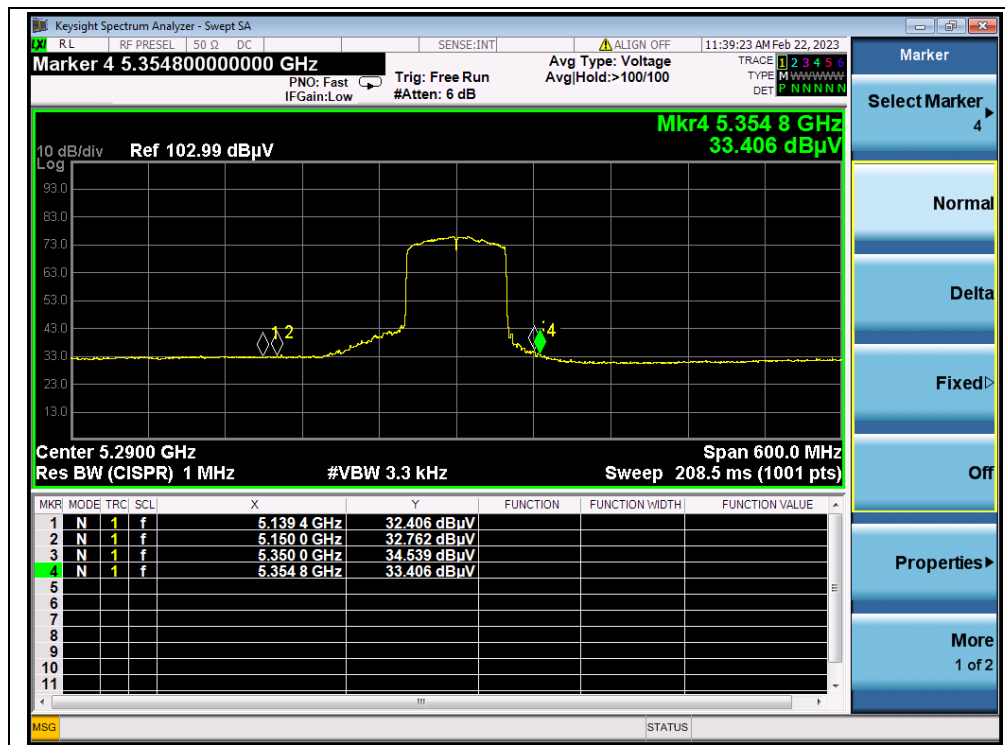
(PEAK, Channel 42, 802.11ac (VHT80))



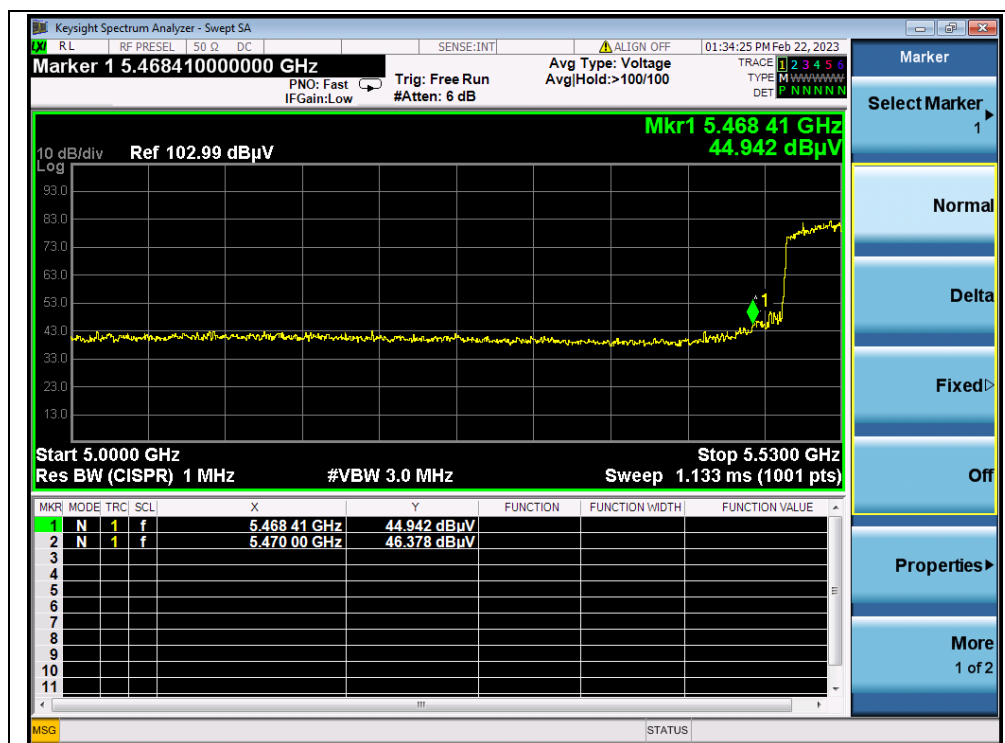
(AVERAGE, Channel 42, 802.11ac (VHT80))



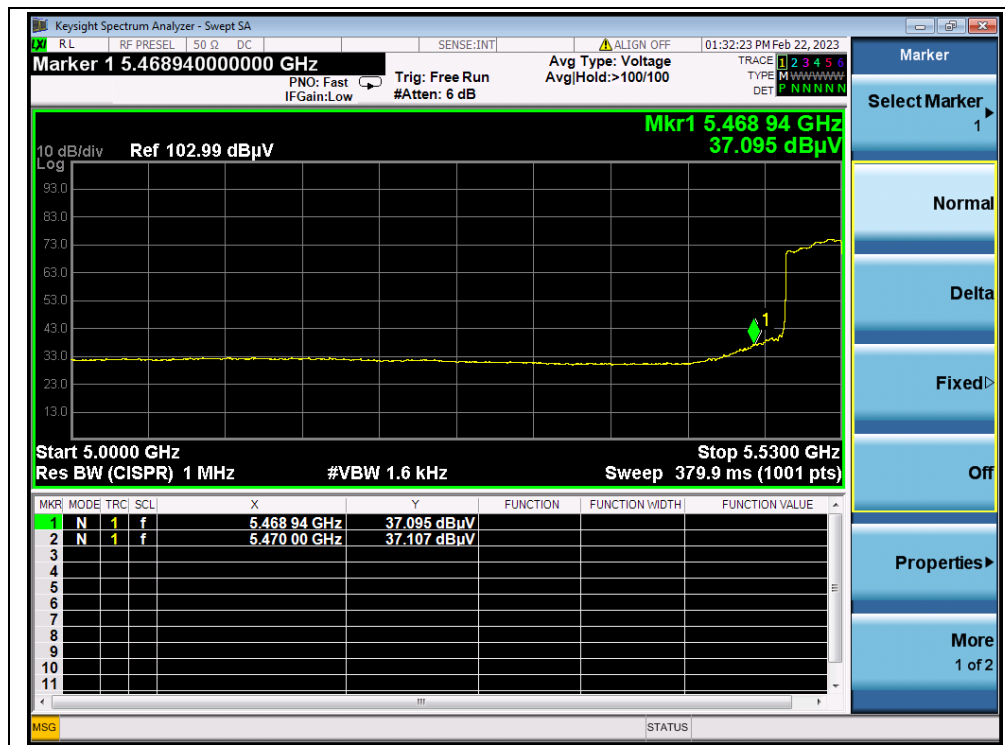
(PEAK, Channel 58, 802.11ac (VHT80))



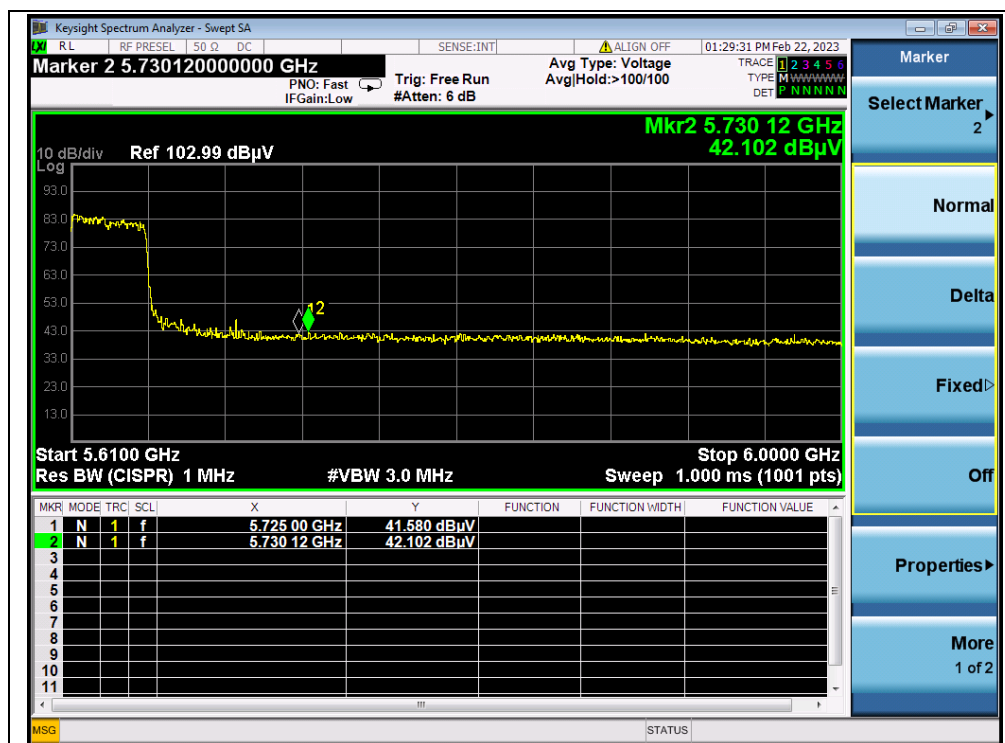
(AVERAGE, Channel 58, 802.11ac (VHT80))



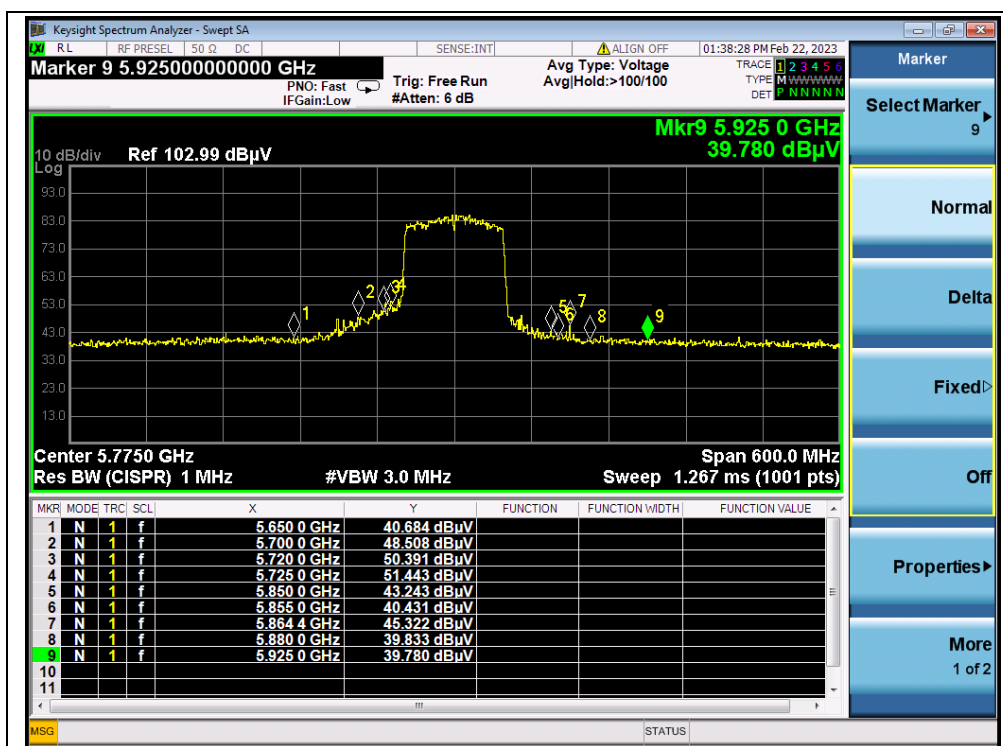
(PEAK, Channel 106, 802.11ac (VHT80))



(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:

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

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.

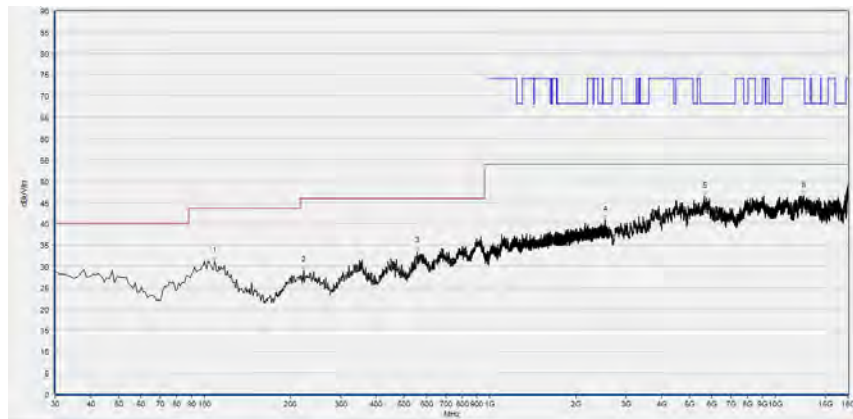
Note2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

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.

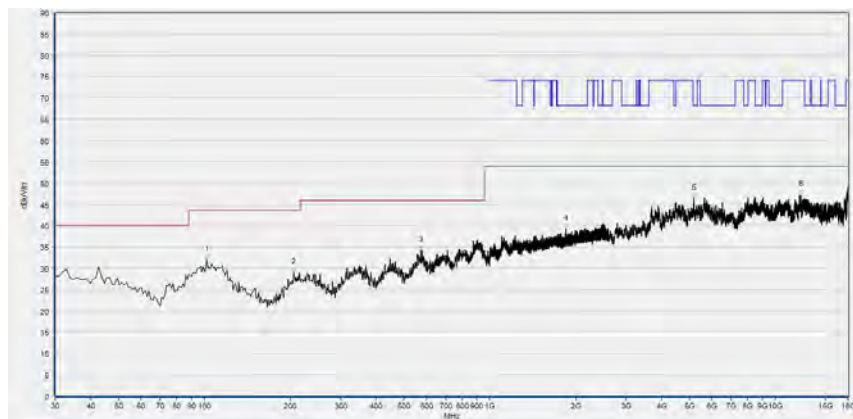
**802.11a Mode**

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
108.649	31.11	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
223.223	29.04	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
557.237	33.50	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2535.445	40.86	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5652.891	46.48	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12599.680	46.65	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

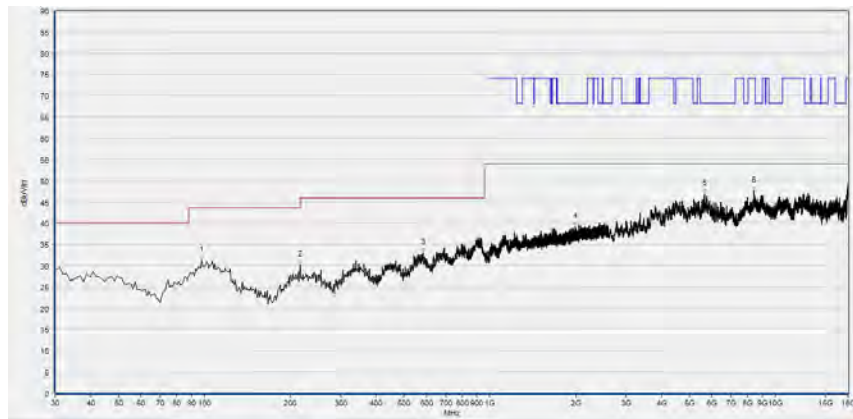
(Antenna Horizontal, 30MHz to 18GHz)



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
101.852	32.07	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
205.746	28.94	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
573.744	34.25	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1842.948	39.19	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5181.556	46.43	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12288.538	47.19	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

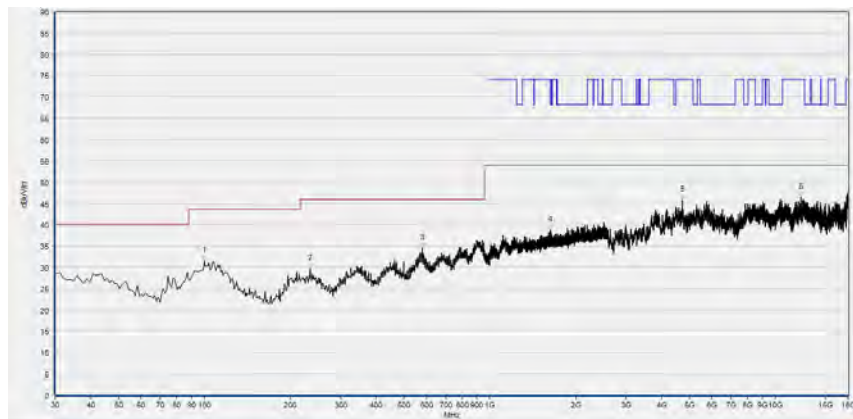
(Antenna Vertical, 30MHz to 18GHz)

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
97.968	31.16	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
216.426	30.16	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
583.453	33.09	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1990.730	39.23	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5655.971	46.91	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8434.687	47.58	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

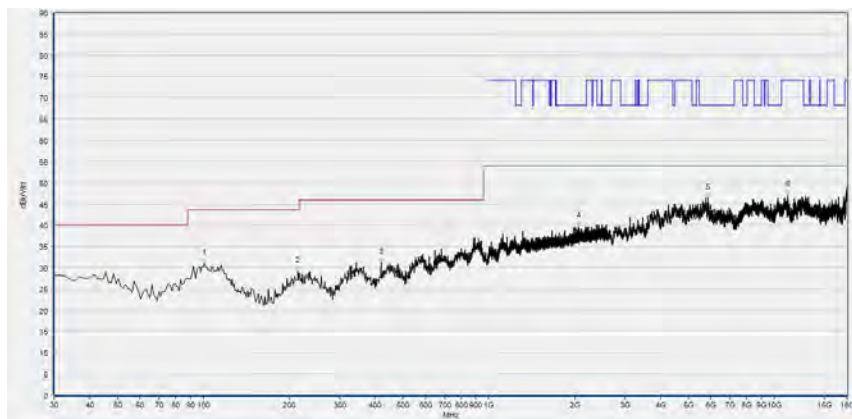


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
99.910	31.52	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
234.875	29.65	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
579.570	34.58	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1624.208	38.70	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4722.545	45.76	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12303.941	46.41	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

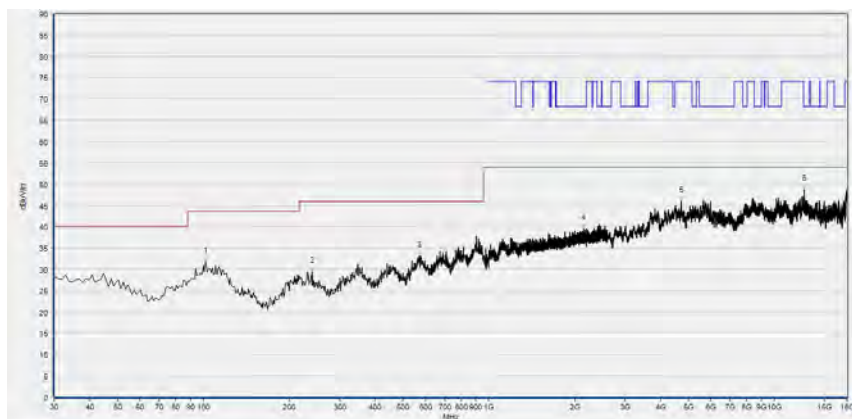


Plot for Channel 48



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
100.881	30.93	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
214.484	29.13	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
419.359	31.14	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2057.419	39.79	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5862.372	46.37	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11164.113	47.15	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

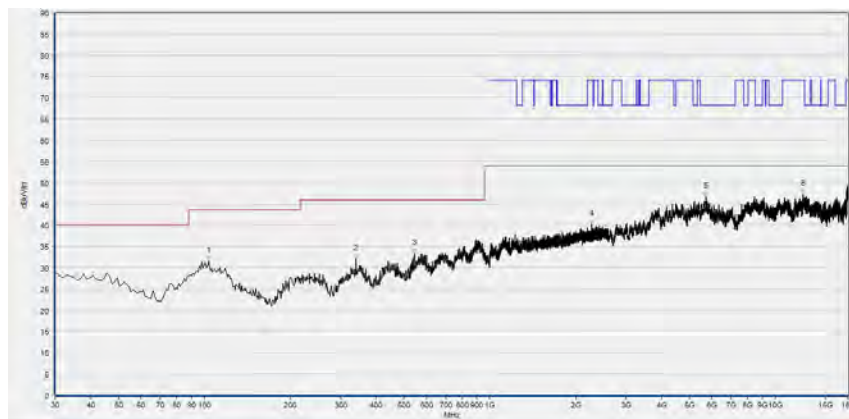
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
101.852	31.81	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
240.701	29.56	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
570.831	33.11	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2148.650	39.49	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4725.625	46.03	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12722.905	48.69	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

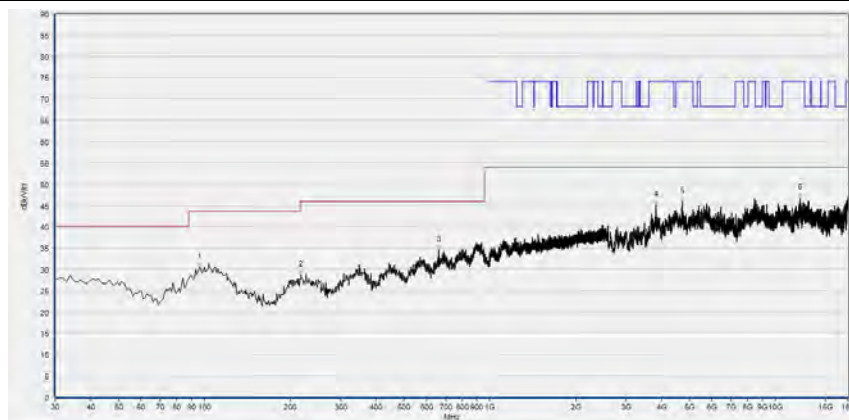
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 52



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
103.794	31.52	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
339.740	32.02	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
545.586	33.37	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2278.293	40.17	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5732.987	46.78	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12525.745	47.28	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

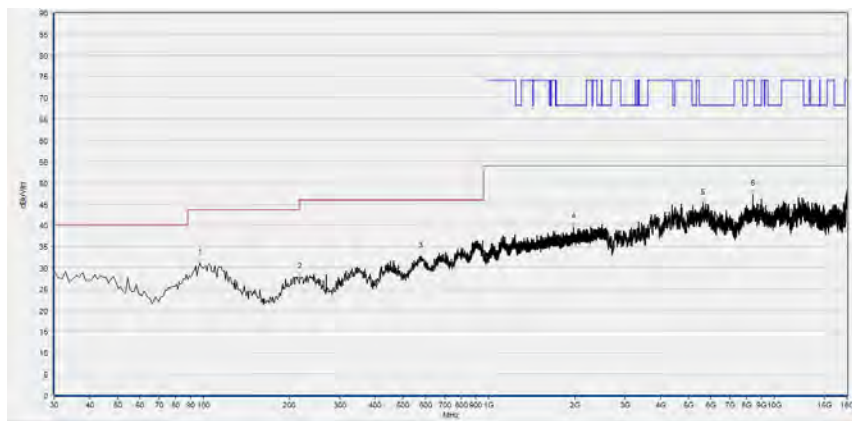
(Antenna Horizontal, 30MHz to 18GHz)



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
96.026	30.58	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
218.368	28.59	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
661.131	34.46	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
3816.843	45.05	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4728.706	45.85	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12202.280	46.71	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

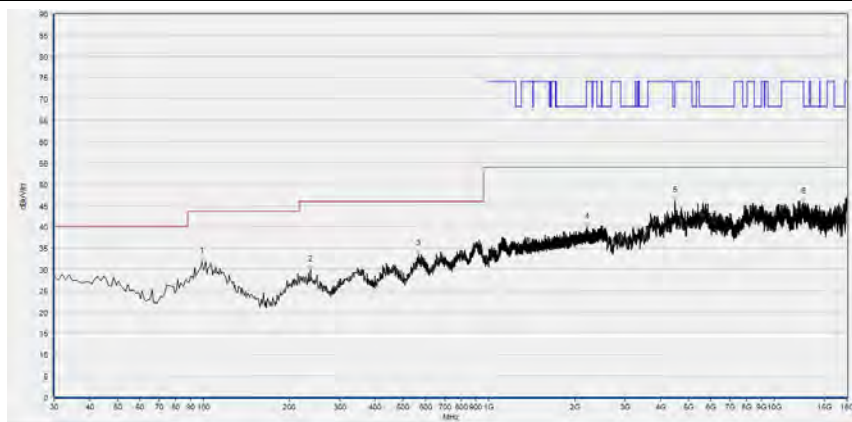
(Antenna Vertical, 30MHz to 18GHz)

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
96.997	31.09	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
218.368	27.77	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
575.686	32.64	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1976.325	39.53	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5634.407	45.25	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8428.526	47.27	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

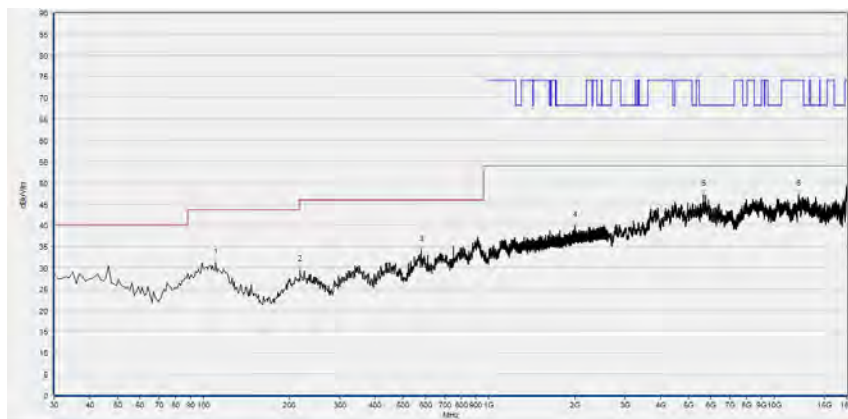


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
98.939	31.83	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
236.817	29.87	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
565.976	33.47	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2204.668	39.85	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4482.256	46.04	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12642.809	45.69	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

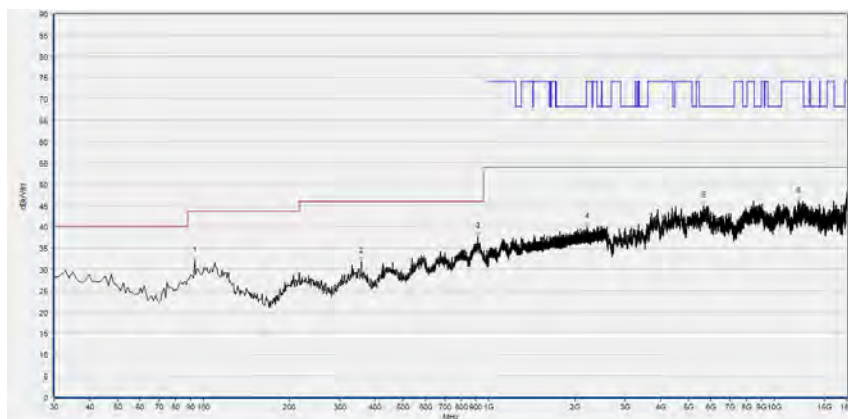


Plot for Channel 64



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
110.591	31.22	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
218.368	29.44	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
580.541	34.12	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2003.535	39.81	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5652.891	47.32	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12137.588	47.18	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

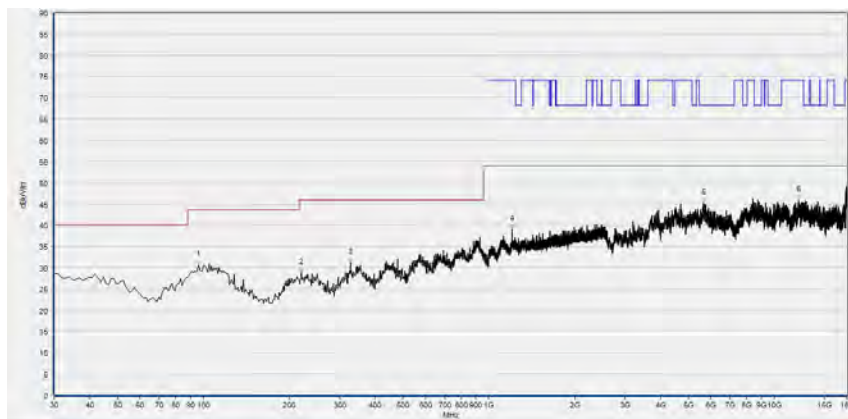


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
93.113	31.96	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
358.188	31.88	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
913.584	37.76	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2209.470	39.92	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5649.810	44.98	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12168.394	45.86	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

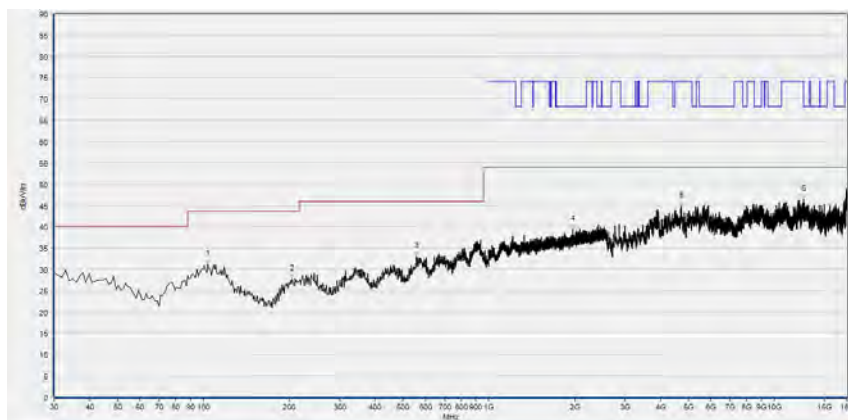


Plot for Channel 100



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
96.026	30.71	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
220.310	28.91	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
327.117	31.17	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1205.935	38.99	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5643.649	45.19	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12149.910	45.84	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

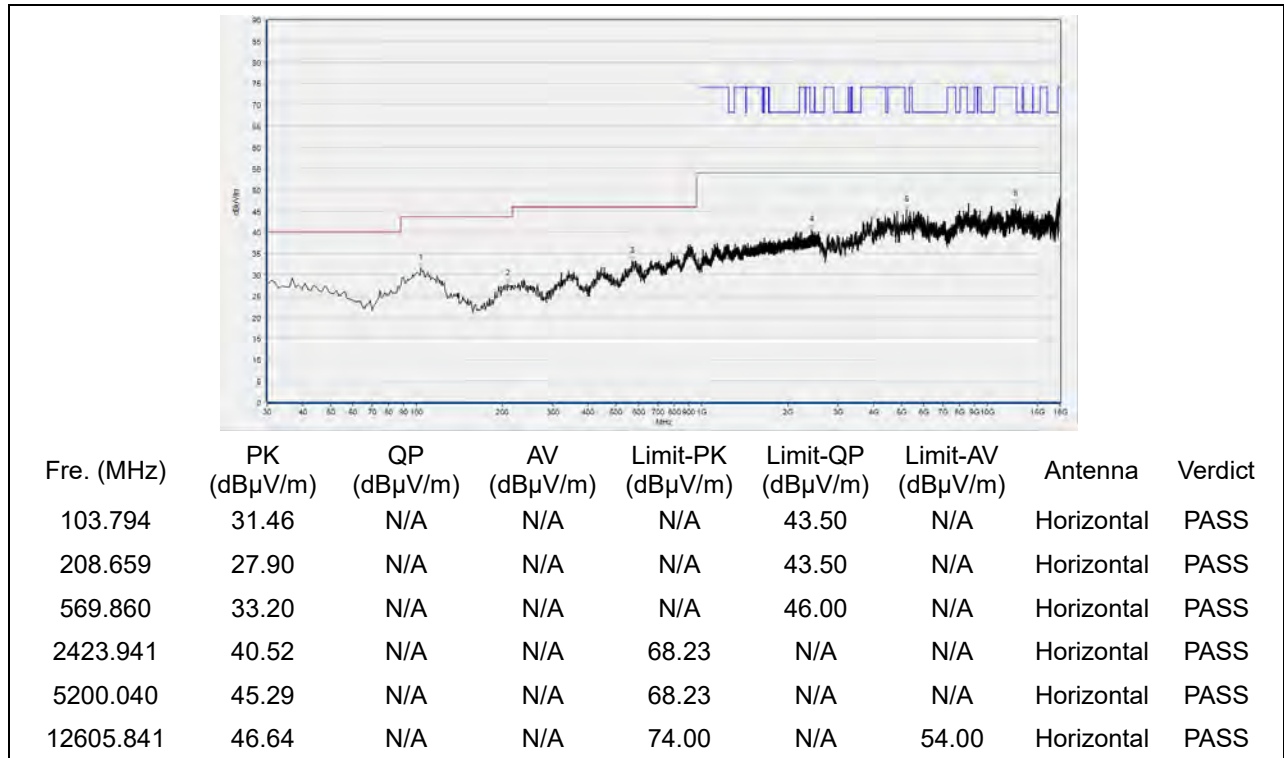
(Antenna Horizontal, 30MHz to 18GHz)



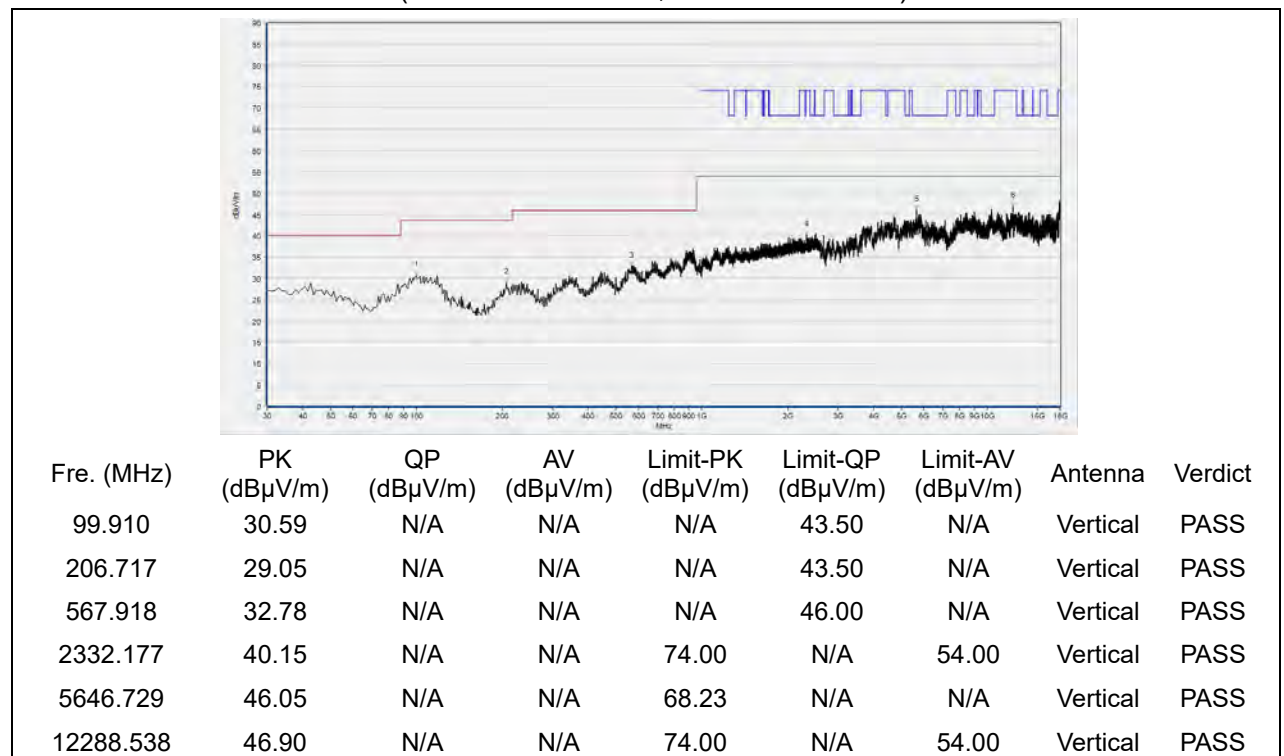
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
103.794	31.20	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
204.775	27.62	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
557.237	32.94	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1969.390	39.38	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4731.786	44.70	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12685.937	46.39	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 120



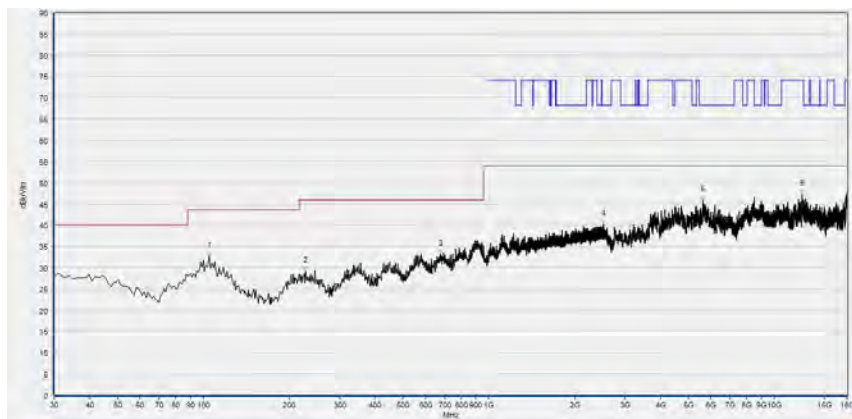
(Antenna Horizontal, 30MHz to 18GHz)



(Antenna Vertical, 30MHz to 18GHz)

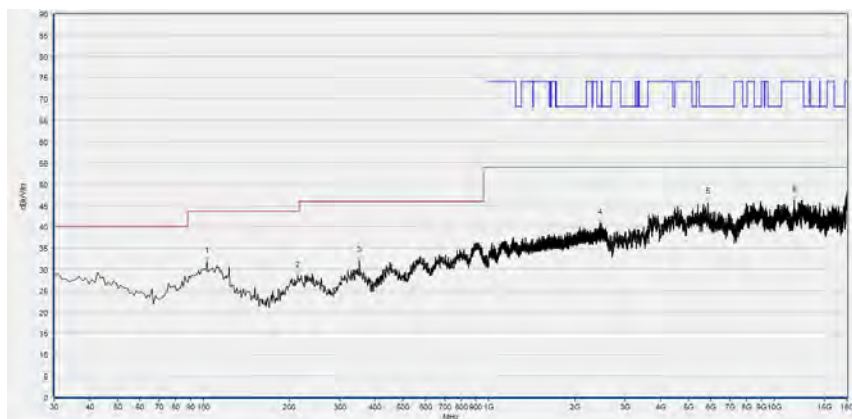


Plot for Channel 144



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
104.765	32.73	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
228.078	29.12	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
676.667	33.19	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2527.442	40.14	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5612.843	45.87	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12528.826	47.30	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

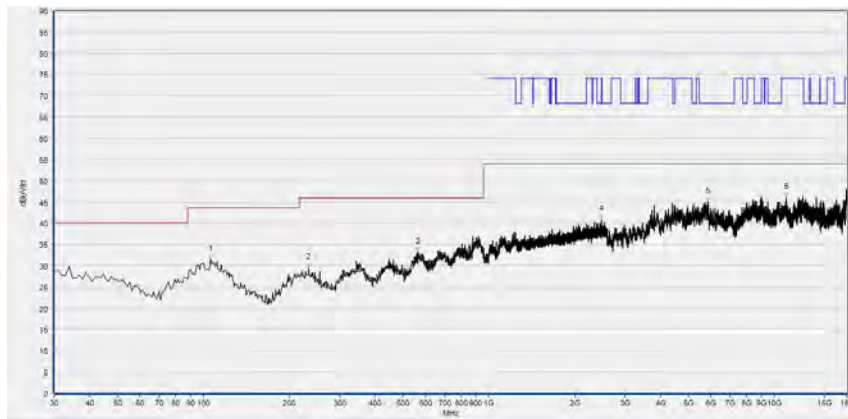
(Antenna Horizontal, 30MHz to 18GHz)



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
102.823	31.84	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
213.514	28.44	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
352.362	31.98	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2450.617	40.93	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5865.453	45.73	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
11752.511	46.22	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

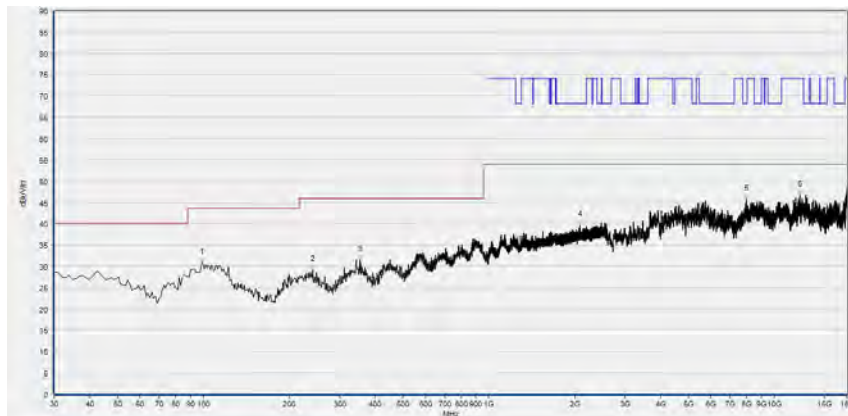
(Antenna Vertical, 30MHz to 18GHz)

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
105.736	31.45	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
233.904	29.57	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
564.034	33.26	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2484.228	40.94	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5859.292	45.03	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11010.082	46.09	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

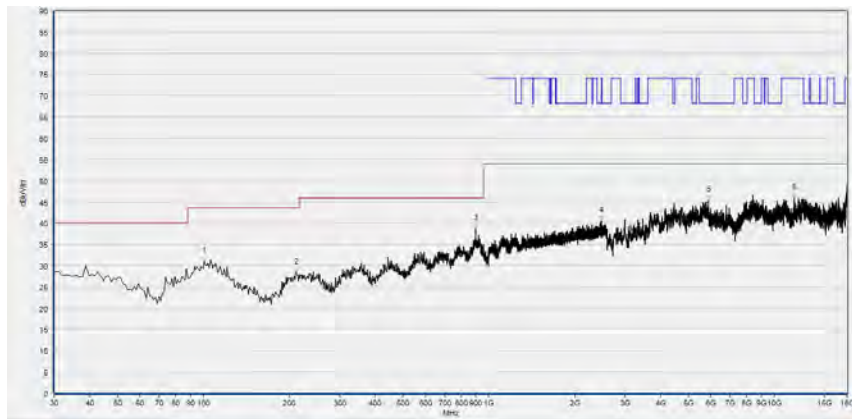
(Antenna Horizontal, 30MHz to 18GHz)



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
98.939	30.88	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
241.672	29.09	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
353.333	31.49	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2086.229	39.67	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
7994.159	45.71	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12319.344	46.81	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

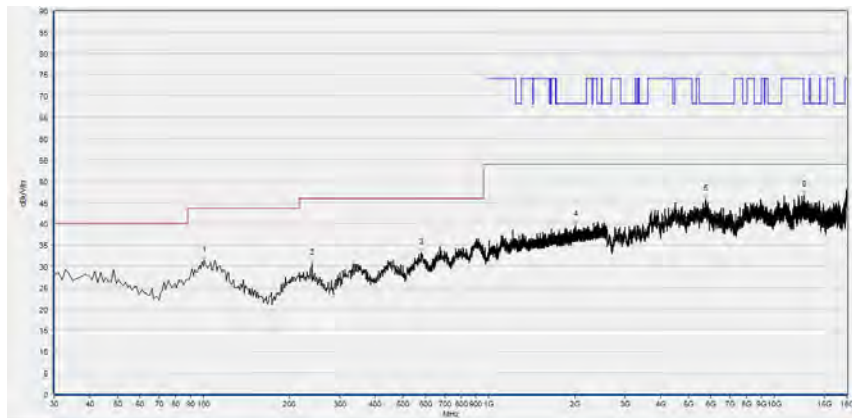
(Antenna Vertical, 30MHz to 18GHz)

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
100.881	30.96	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
211.572	28.29	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
899.019	38.71	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2473.024	40.58	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5868.534	45.45	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11737.107	45.97	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

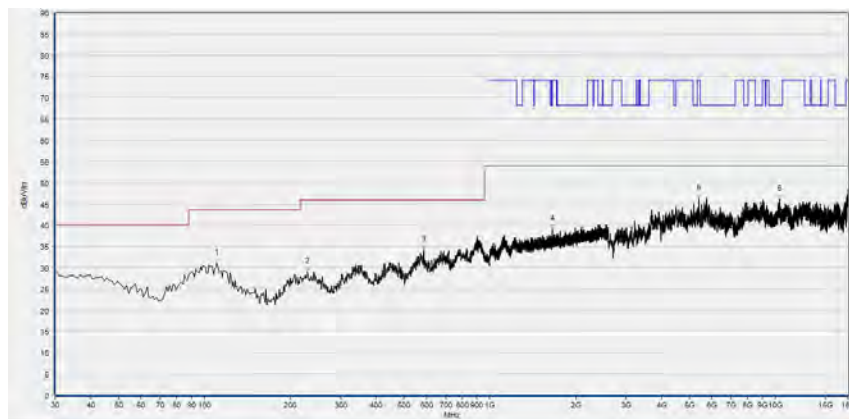
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
100.881	31.35	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
240.701	30.61	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
578.599	33.10	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2011.004	39.68	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5751.470	45.71	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12735.227	46.84	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

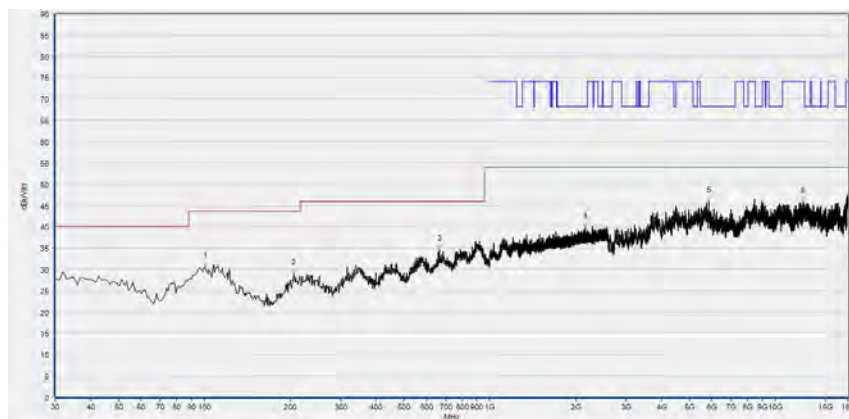
(Antenna Vertical, 30MHz to 18GHz)

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
110.591	30.94	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
230.020	29.03	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
586.366	34.20	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1651.417	39.09	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5400.280	46.30	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10363.153	46.04	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

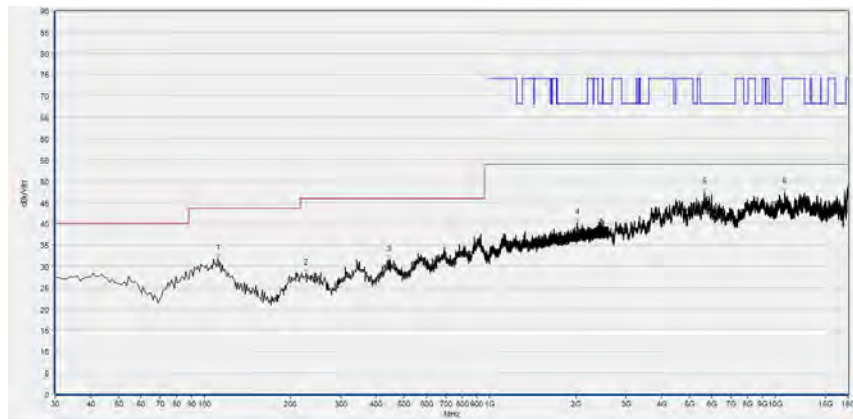


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
100.881	30.75	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
205.746	29.00	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
665.015	34.69	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2161.987	39.83	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5862.372	46.13	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12519.584	46.00	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

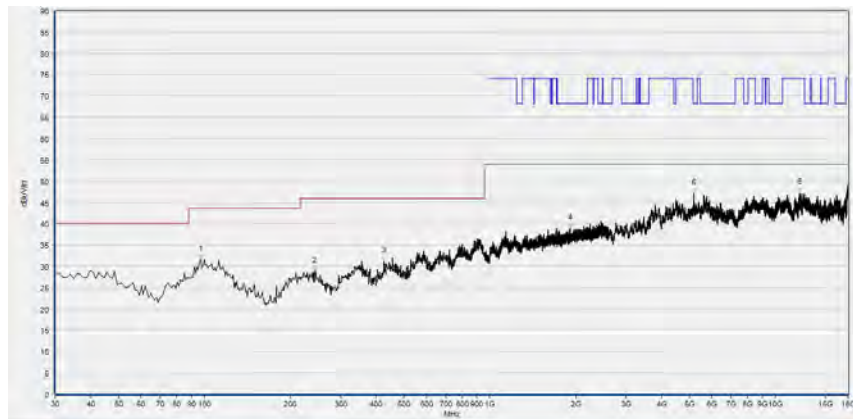
**802.11n (HT40) mode**

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
111.562	31.81	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
227.107	28.27	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
441.692	31.52	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2030.210	40.23	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5640.568	47.36	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10785.197	47.35	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

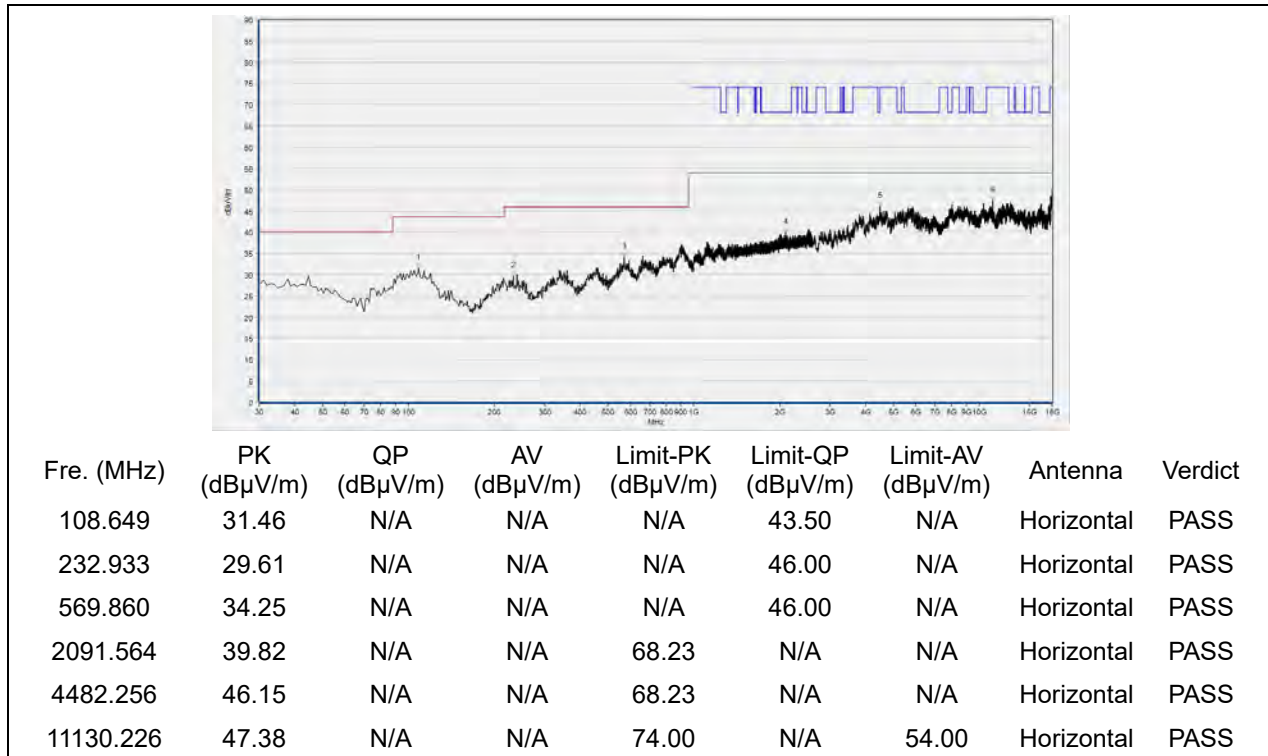
(Antenna Horizontal, 30MHz to 18GHz)



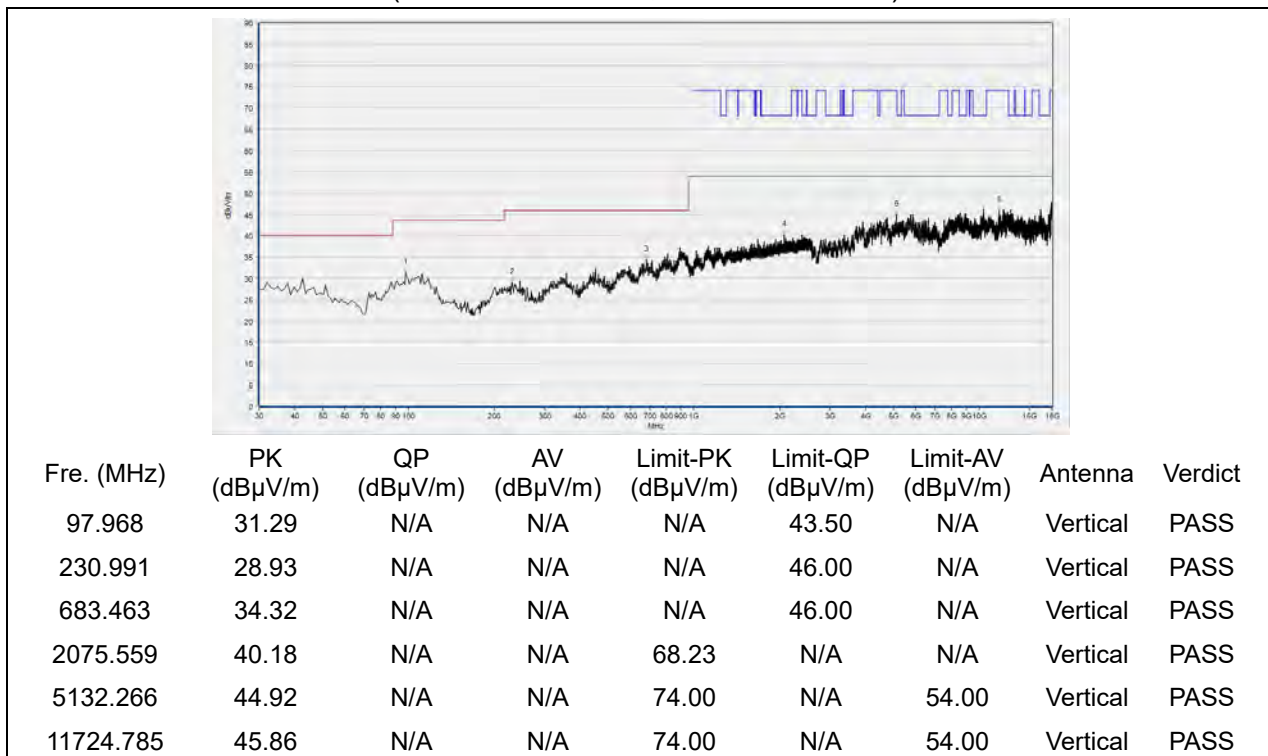
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
96.997	31.44	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
242.643	28.77	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
426.156	31.10	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1913.905	38.94	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5190.798	47.18	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12149.910	47.21	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 46



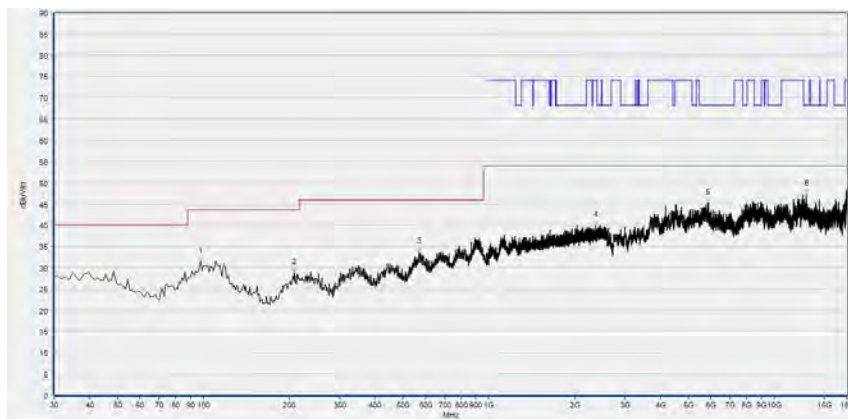
(Antenna Horizontal, 30MHz to 18GHz)



(Antenna Vertical, 30MHz to 18GHz)

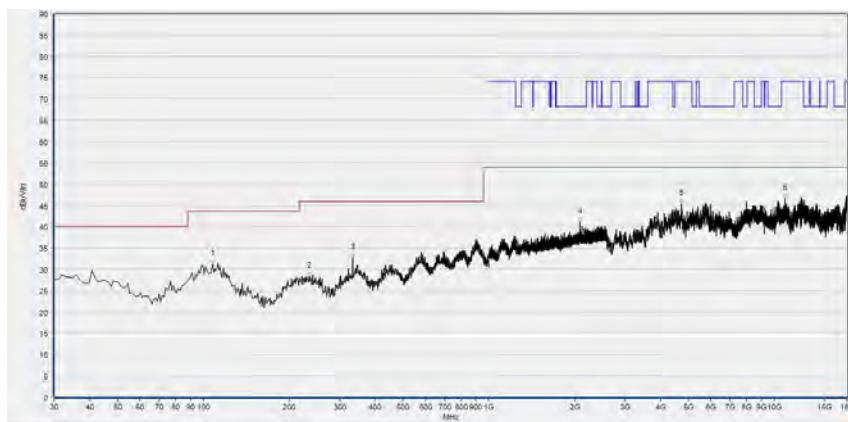


Plot for Channel 54



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
97.968	31.42	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
207.688	28.77	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
569.860	33.67	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2364.188	39.81	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5856.211	45.19	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12923.145	47.33	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

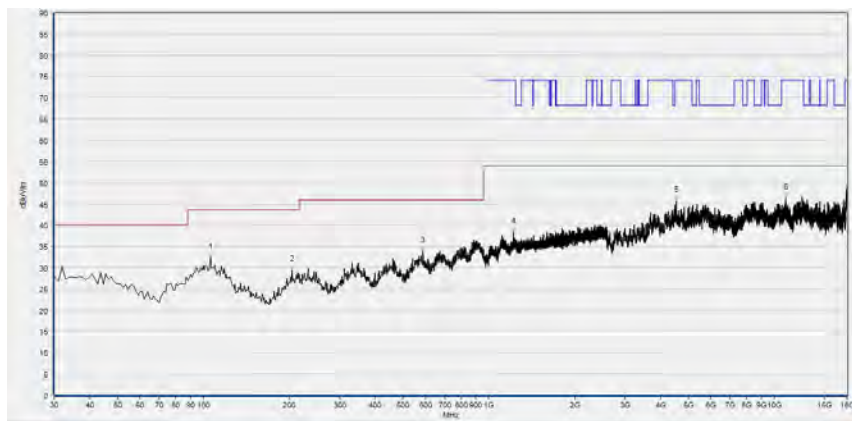
(Antenna Horizontal, 30MHz to 18GHz)



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
107.678	31.18	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
234.875	28.25	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
332.943	32.61	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2086.762	41.08	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4719.464	45.36	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10902.260	46.55	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

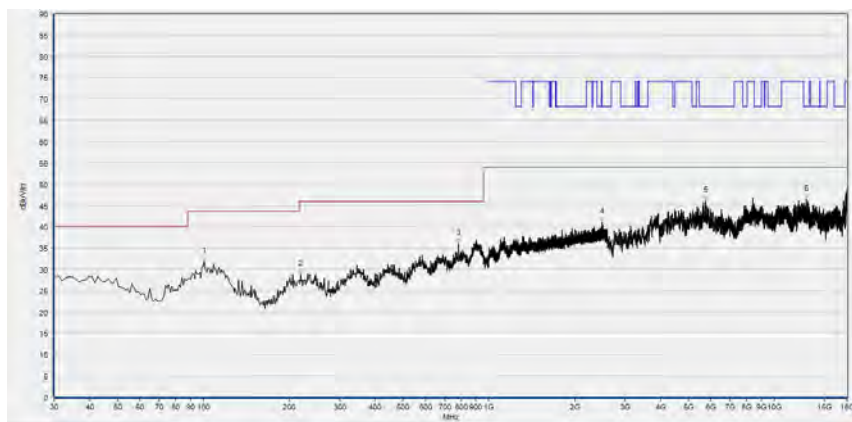
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 62



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
105.736	32.35	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
204.775	29.52	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
588.308	33.77	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1221.407	38.38	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4531.546	45.74	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10982.356	46.35	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

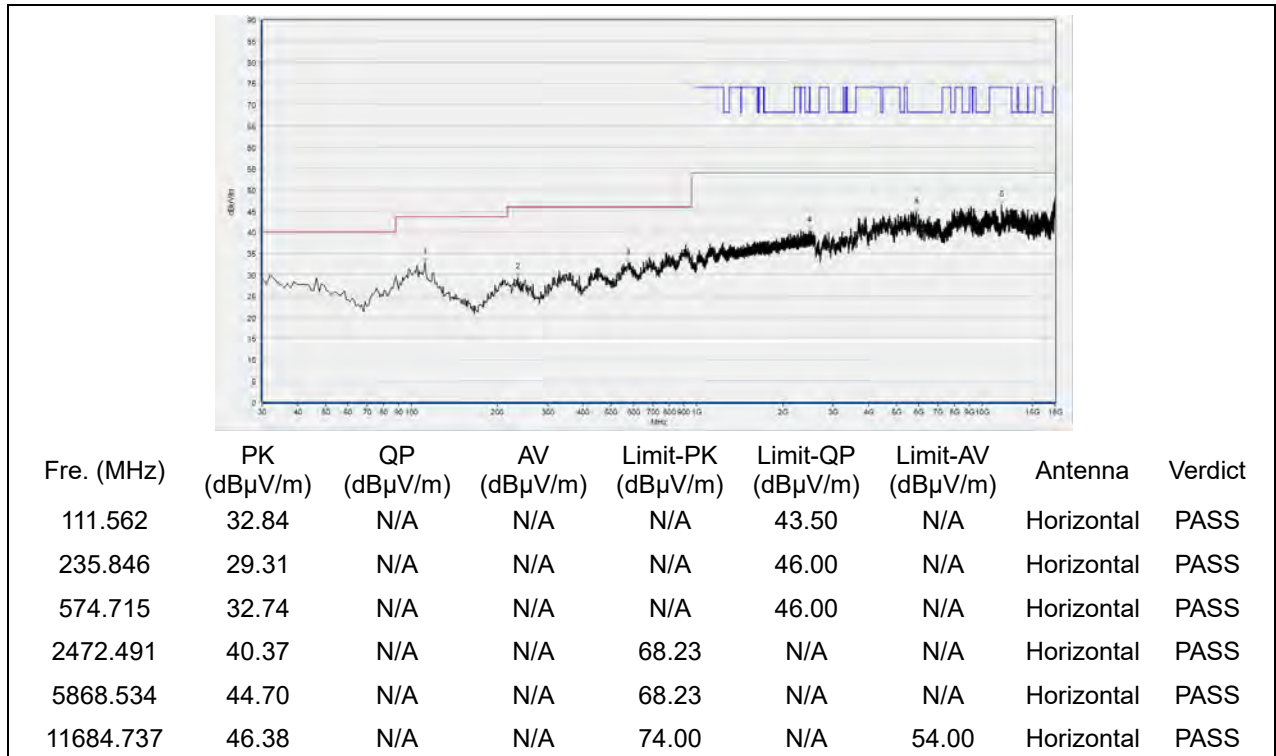
(Antenna Horizontal, 30MHz to 18GHz)



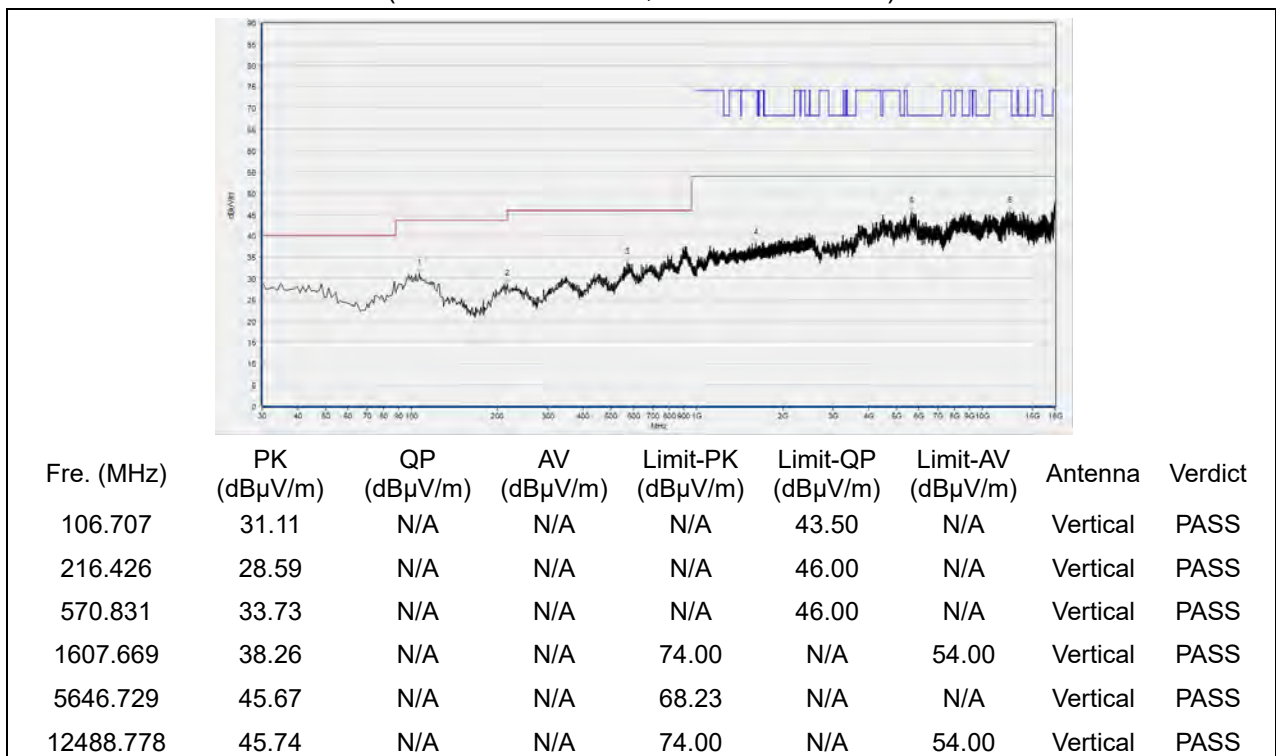
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
100.881	31.78	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
219.339	28.87	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
783.473	36.05	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2499.700	40.99	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5757.632	46.05	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12923.145	46.43	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 102

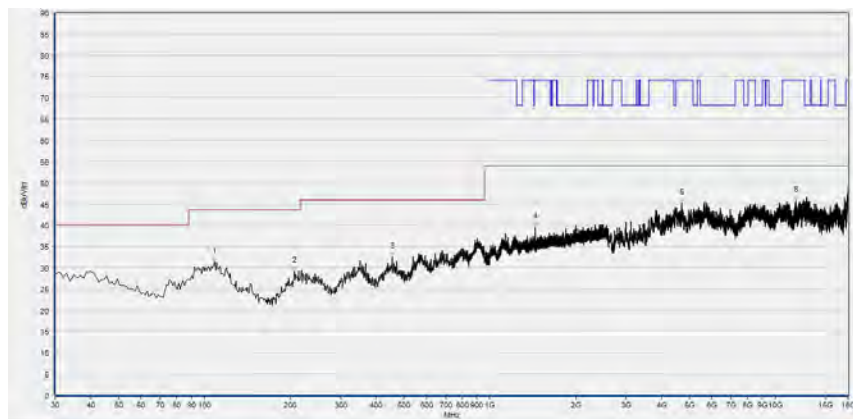


(Antenna Horizontal, 30MHz to 18GHz)



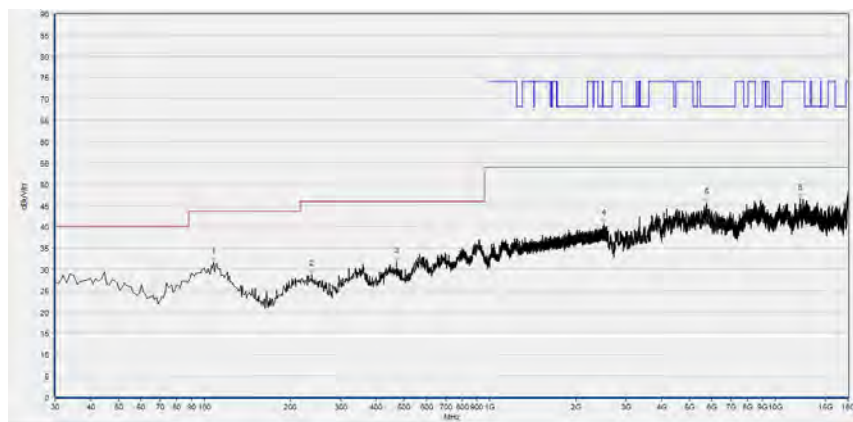
(Antenna Vertical, 30MHz to 18GHz)

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
108.649	31.29	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
206.717	29.20	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
454.314	32.53	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1443.881	39.56	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4704.061	45.31	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11789.478	45.80	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

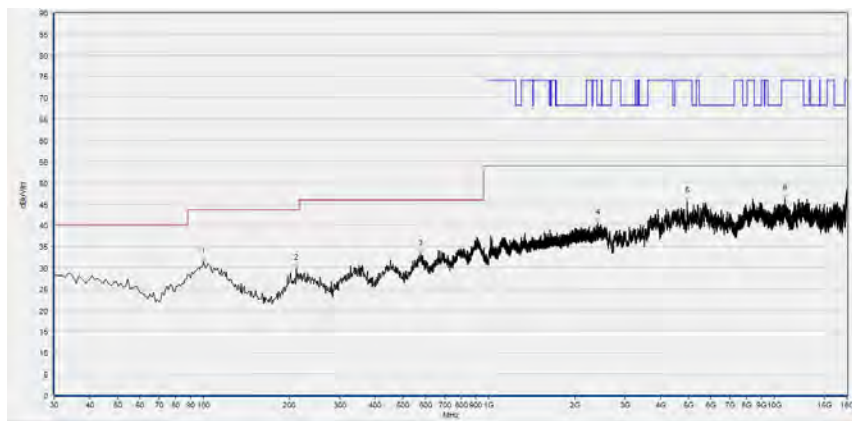
(Antenna Horizontal, 30MHz to 18GHz)



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
107.678	31.66	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
237.788	28.78	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
471.792	31.86	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2503.434	40.78	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5763.793	45.57	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12199.200	46.57	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

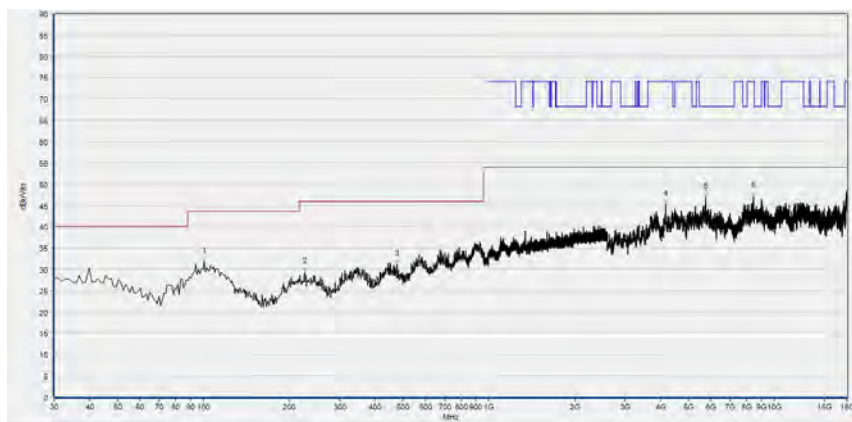
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 142



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
99.910	31.39	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
211.572	29.84	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
576.657	33.41	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2414.338	40.57	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4953.591	45.60	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10883.777	46.28	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

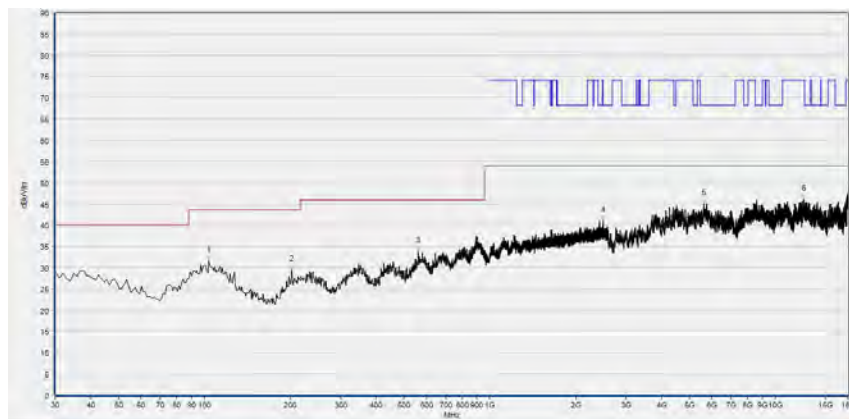
(Antenna Horizontal, 30MHz to 18GHz)



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
100.881	31.82	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
226.136	29.38	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
476.647	31.26	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
4161.872	45.18	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5760.712	46.90	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8437.768	47.05	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

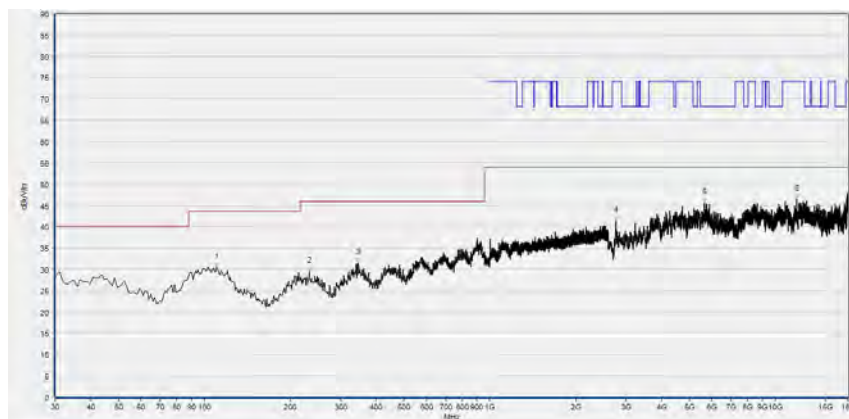
(Antenna Vertical, 30MHz to 18GHz)

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
103.794	31.60	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
201.862	29.42	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
562.092	33.79	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2497.566	41.04	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5619.004	45.05	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12590.438	46.09	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

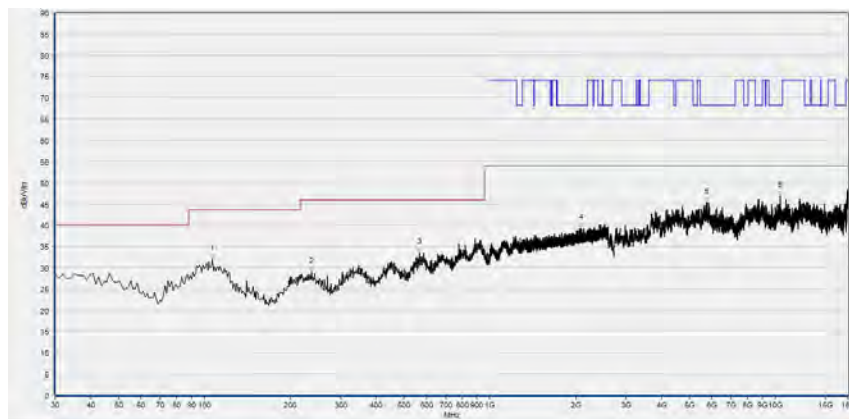


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
110.591	30.48	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
232.933	29.57	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
345.566	31.44	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2760.192	41.38	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5665.213	45.60	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
11878.816	46.49	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

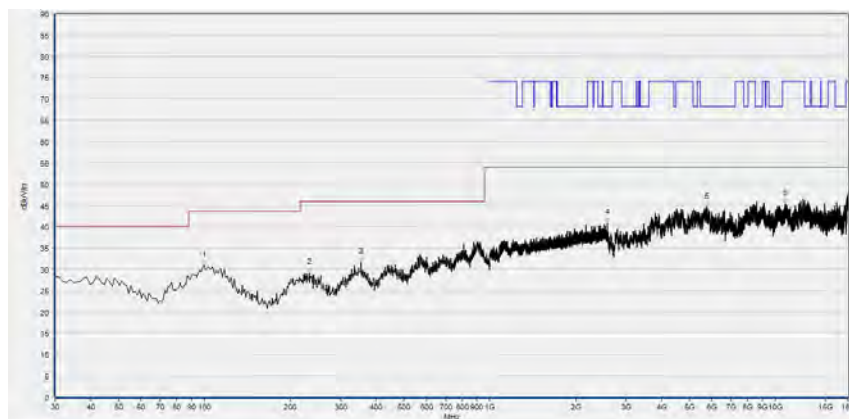


Plot for Channel 159



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
106.707	31.93	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
236.817	28.94	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
566.947	33.44	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2086.229	39.40	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5751.470	45.48	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10421.684	46.86	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

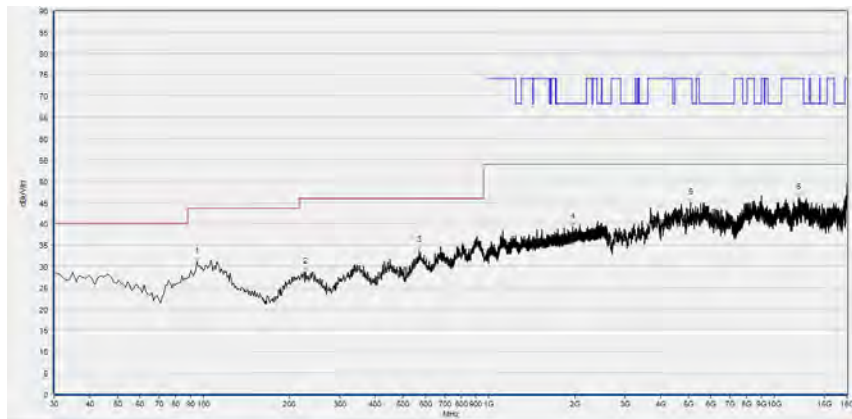


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
99.910	30.89	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
232.933	29.18	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
354.304	31.66	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2575.458	40.85	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5742.228	44.60	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
10812.923	45.42	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

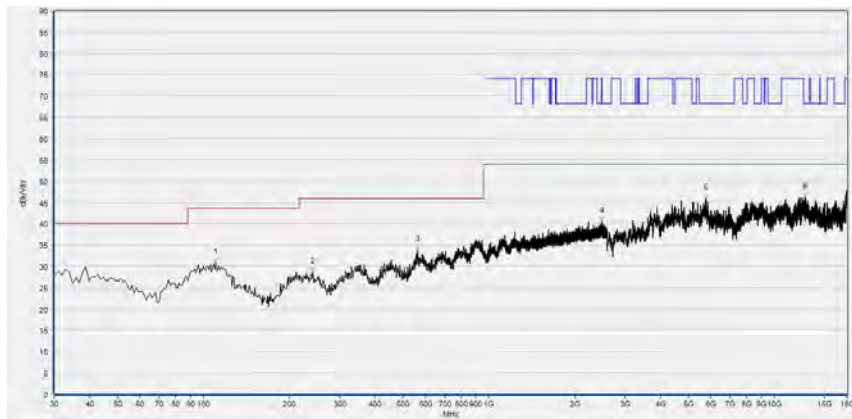
**802.11ac (VHT80) Mode**

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
95.055	30.92	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
228.078	28.67	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
570.831	33.72	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1973.124	39.18	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5082.977	44.87	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12174.555	46.05	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

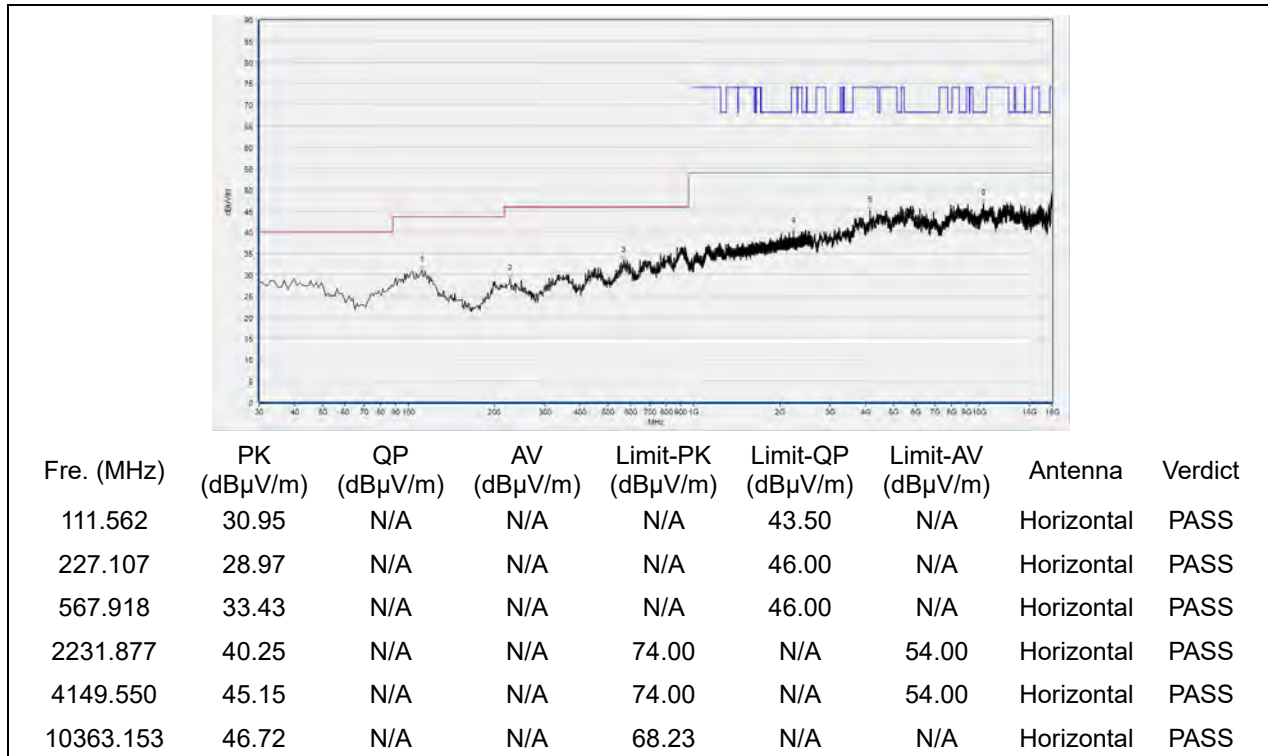
(Antenna Horizontal, 30MHz to 18GHz)



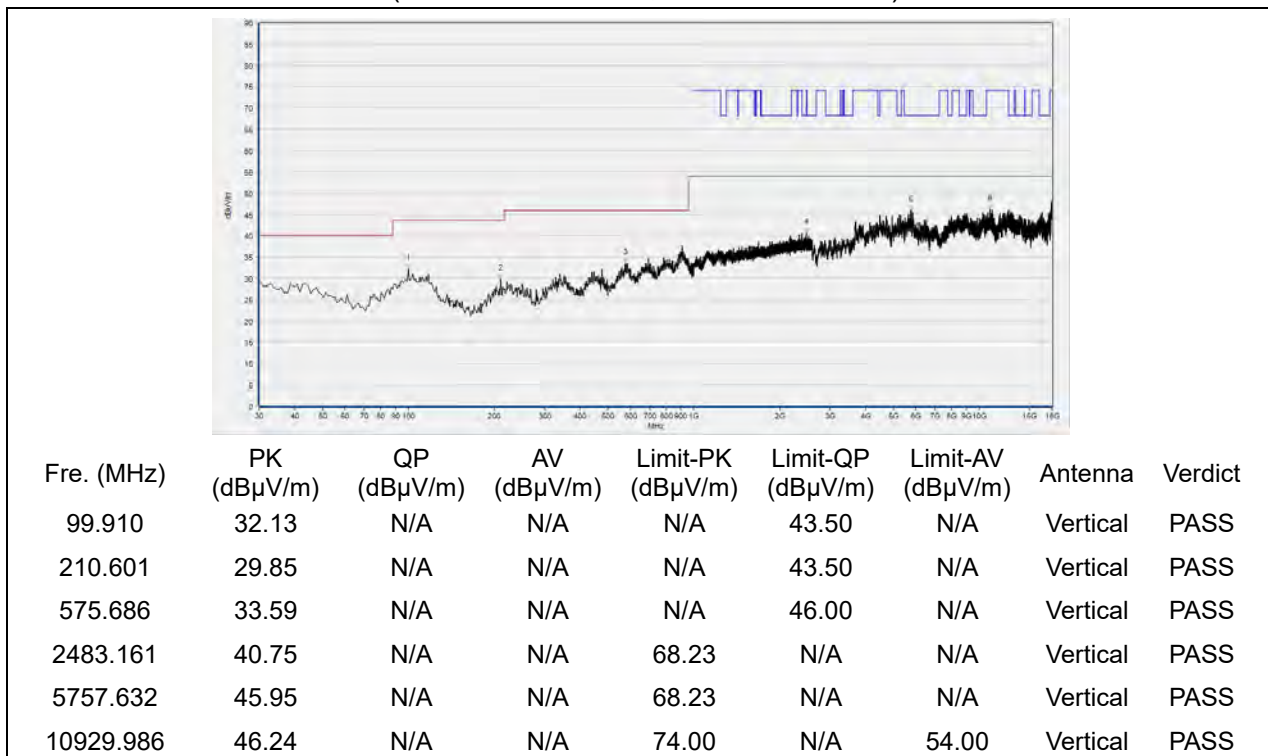
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
110.591	30.85	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
241.672	28.68	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
564.034	33.87	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2498.099	40.50	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5757.632	45.88	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12809.162	46.29	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 58

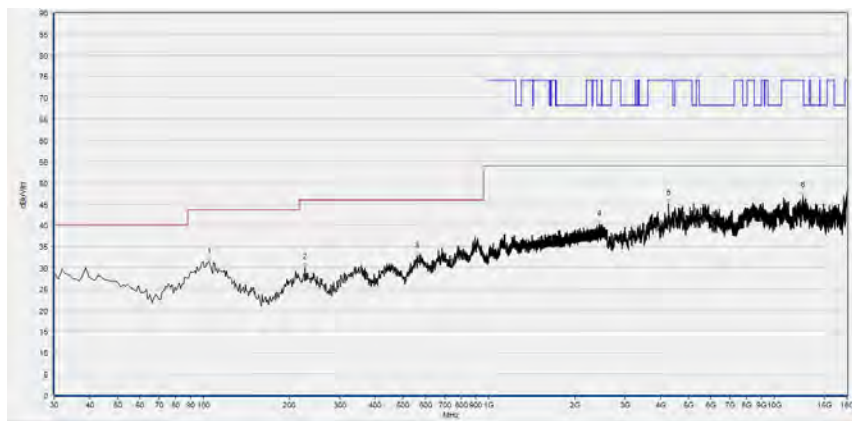


(Antenna Horizontal, 30MHz to 18GHz)



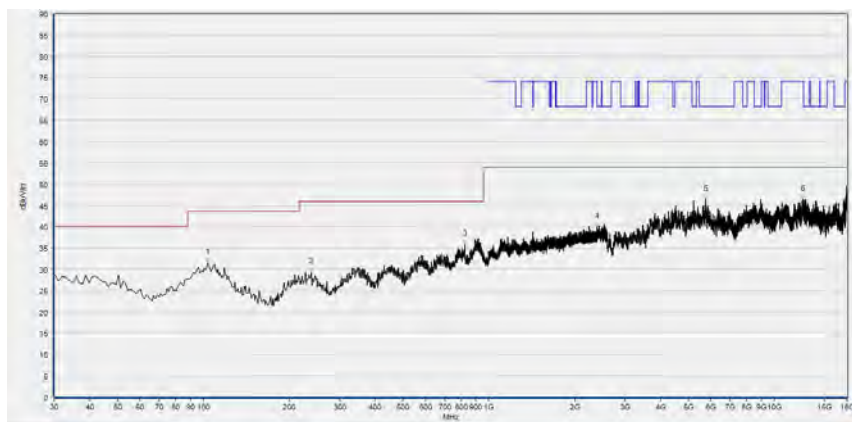
(Antenna Vertical, 30MHz to 18GHz)

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
104.765	31.39	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
227.107	30.05	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
561.121	32.70	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2431.944	40.29	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4269.694	45.06	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12615.083	46.95	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

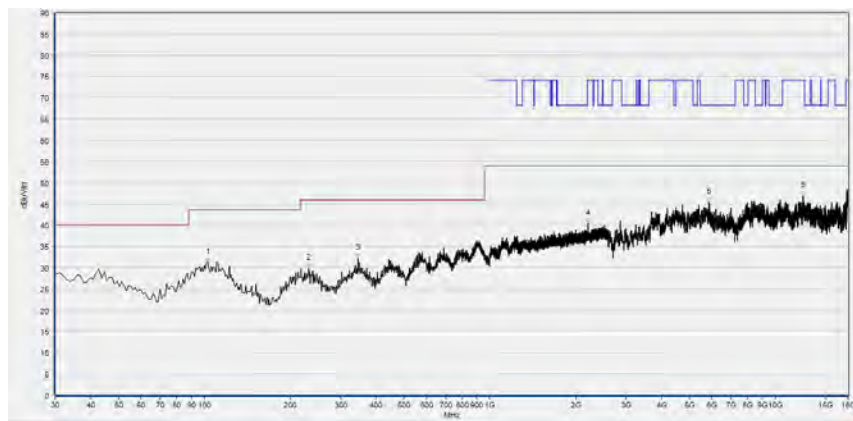
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
103.794	31.48	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
238.759	29.26	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
824.254	35.82	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2396.199	39.94	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5757.632	46.48	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12605.841	46.42	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

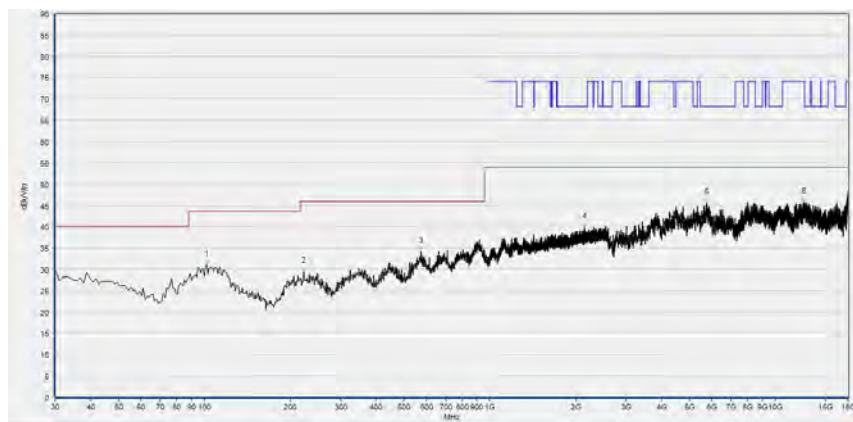
(Antenna Vertical, 30MHz to 18GHz)

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
102.823	31.21	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
231.962	29.80	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
344.595	32.18	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2204.135	40.34	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5865.453	45.35	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12516.503	46.88	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

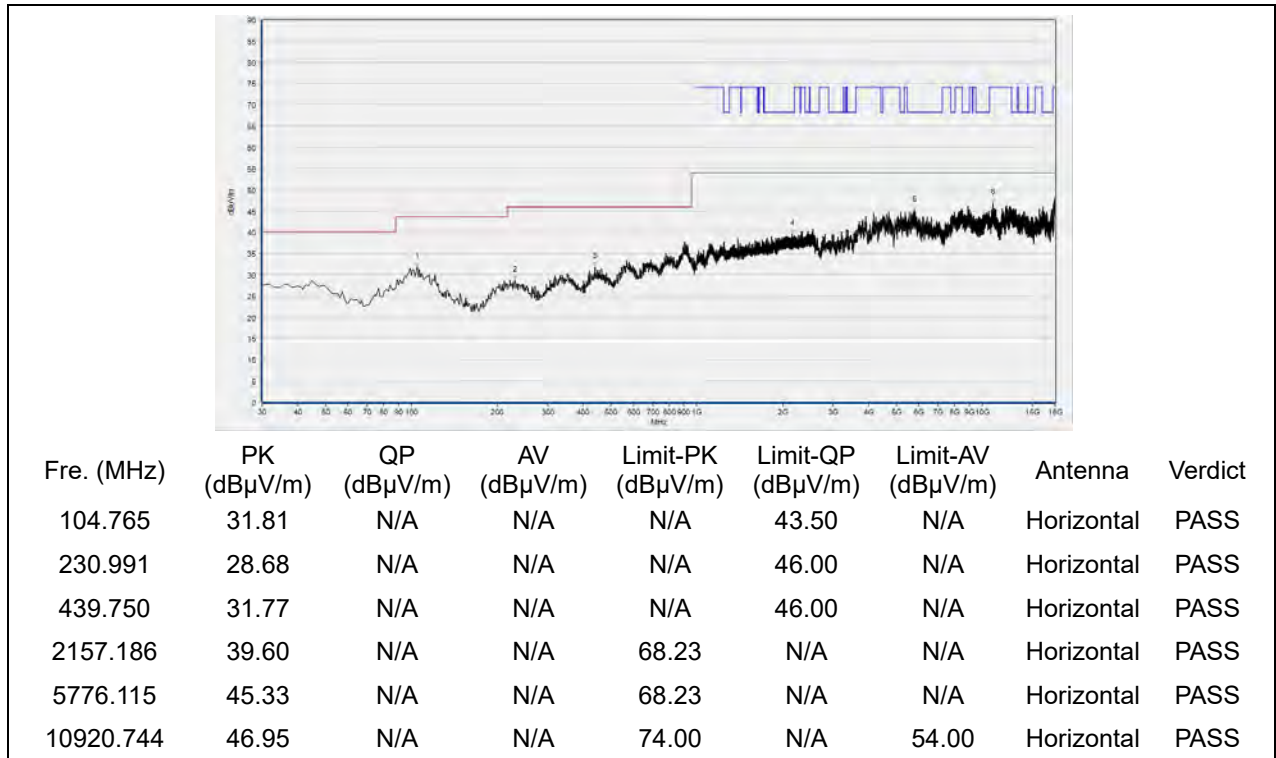
(Antenna Horizontal, 30MHz to 18GHz)



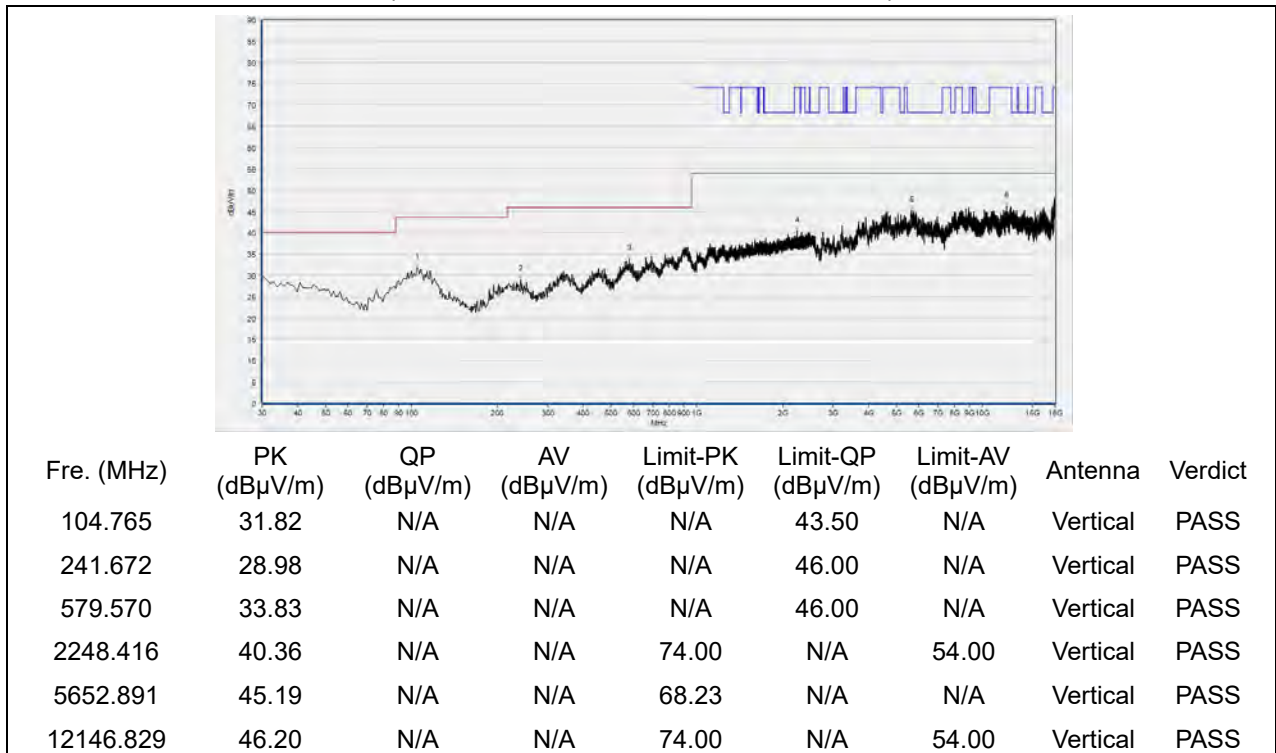
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
101.852	30.95	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
223.223	29.57	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
574.715	34.14	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2145.982	39.84	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5760.712	45.57	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12608.922	45.78	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 138

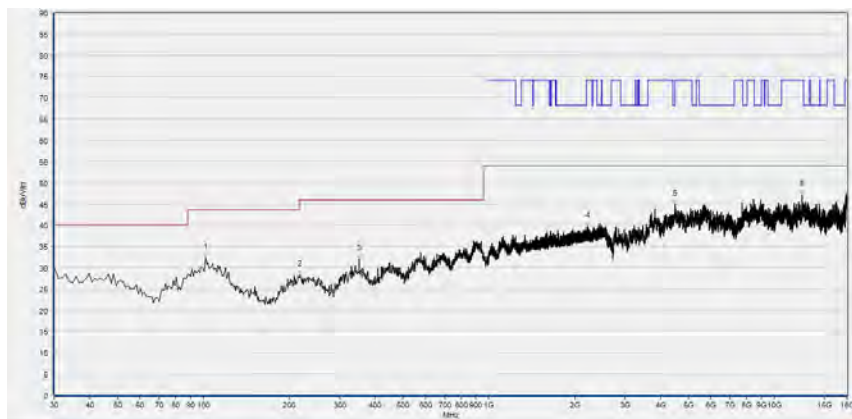


(Antenna Horizontal, 30MHz to 18GHz)



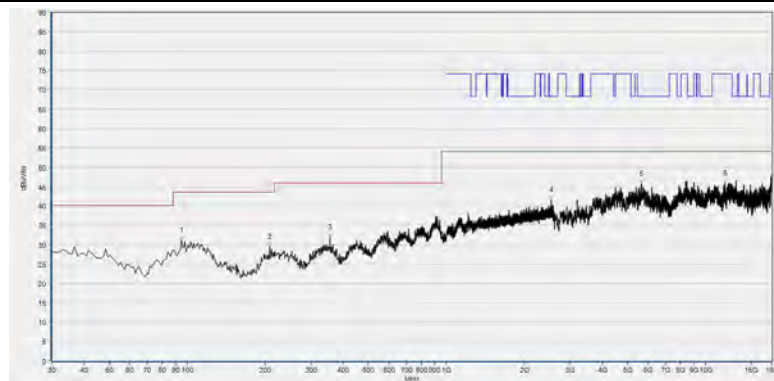
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 155



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
101.852	32.32	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
218.368	28.26	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
351.391	31.95	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2221.207	39.71	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4500.740	44.87	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12531.906	47.02	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
95.055	31.25	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
207.688	29.52	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
355.275	31.78	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2542.914	41.50	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5640.568	45.67	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
11866.493	45.99	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

END OF REPORT