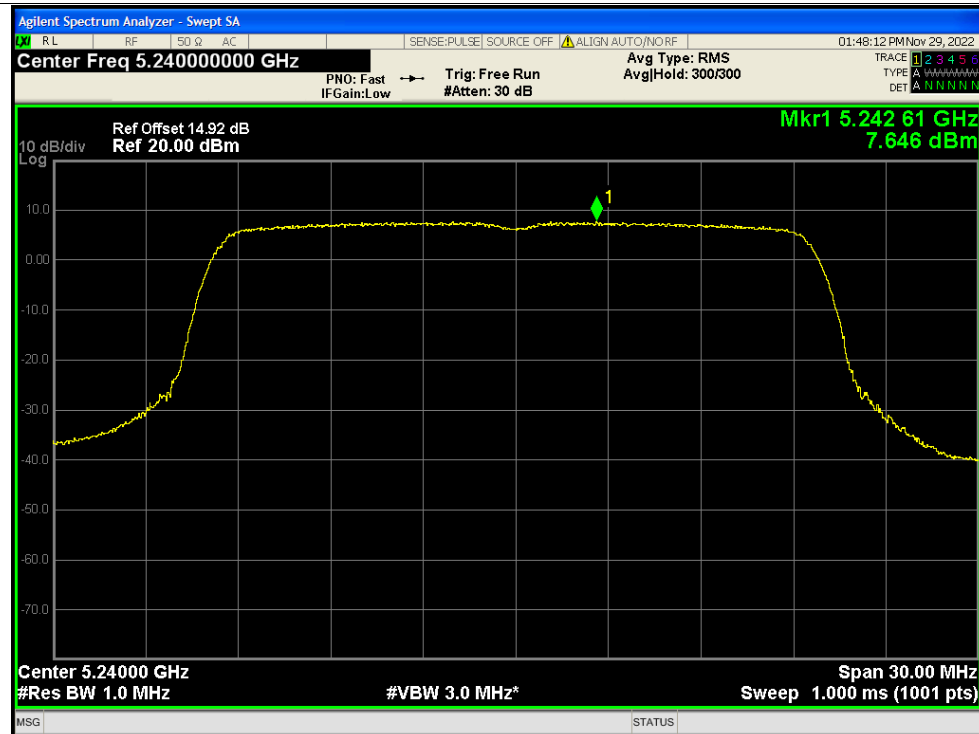
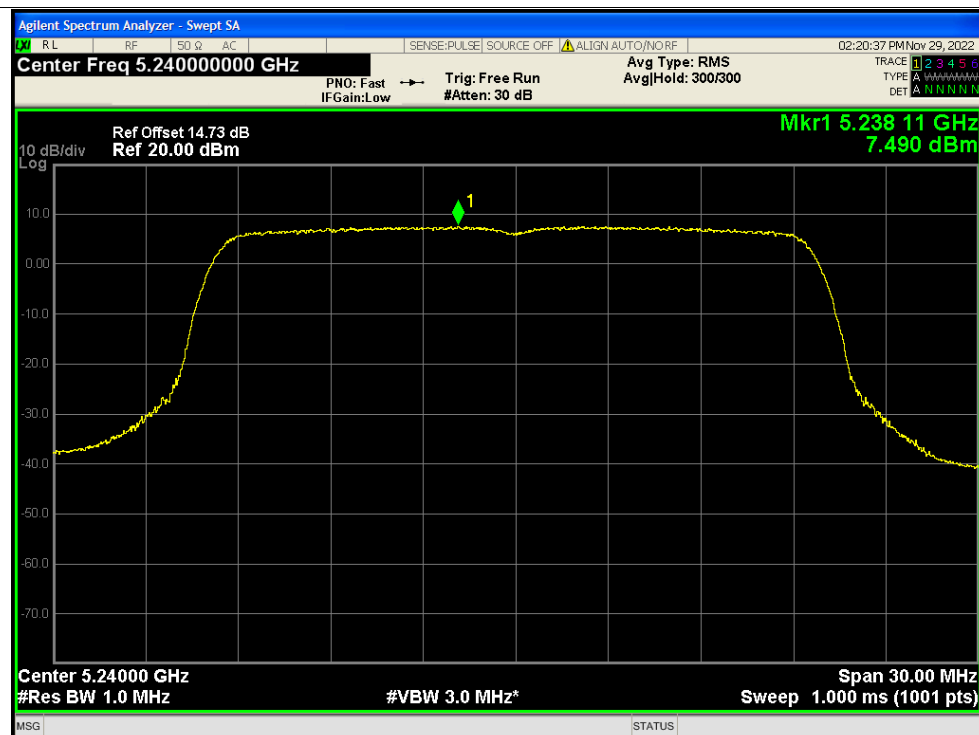




PSD NVNT ax20 5240MHz Ant1

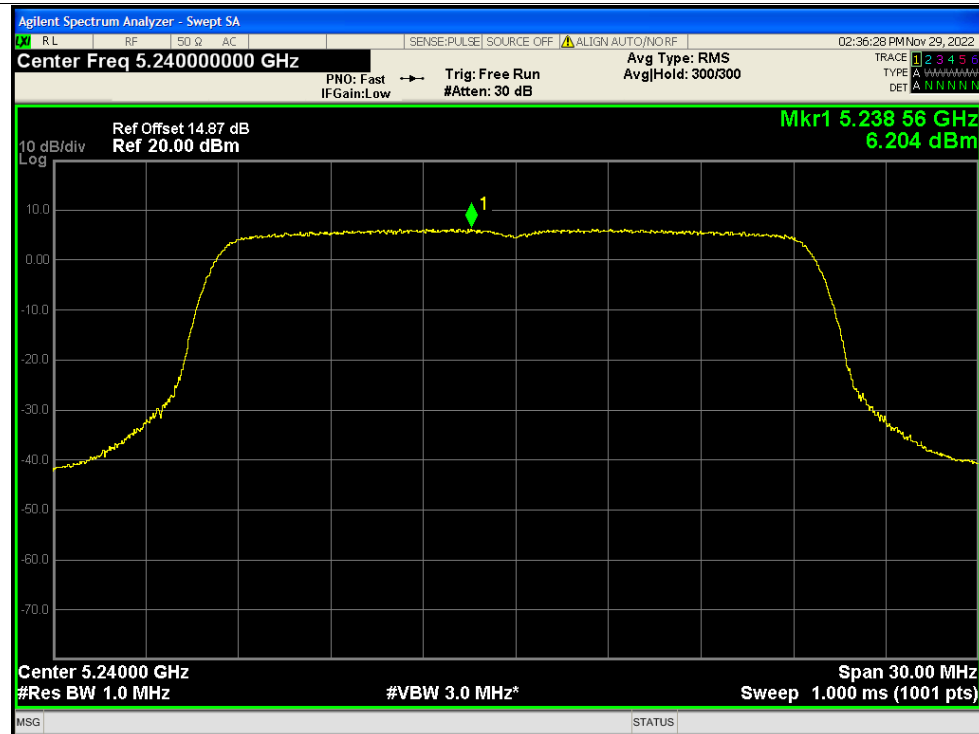


PSD NVNT ax20 5240MHz Ant2

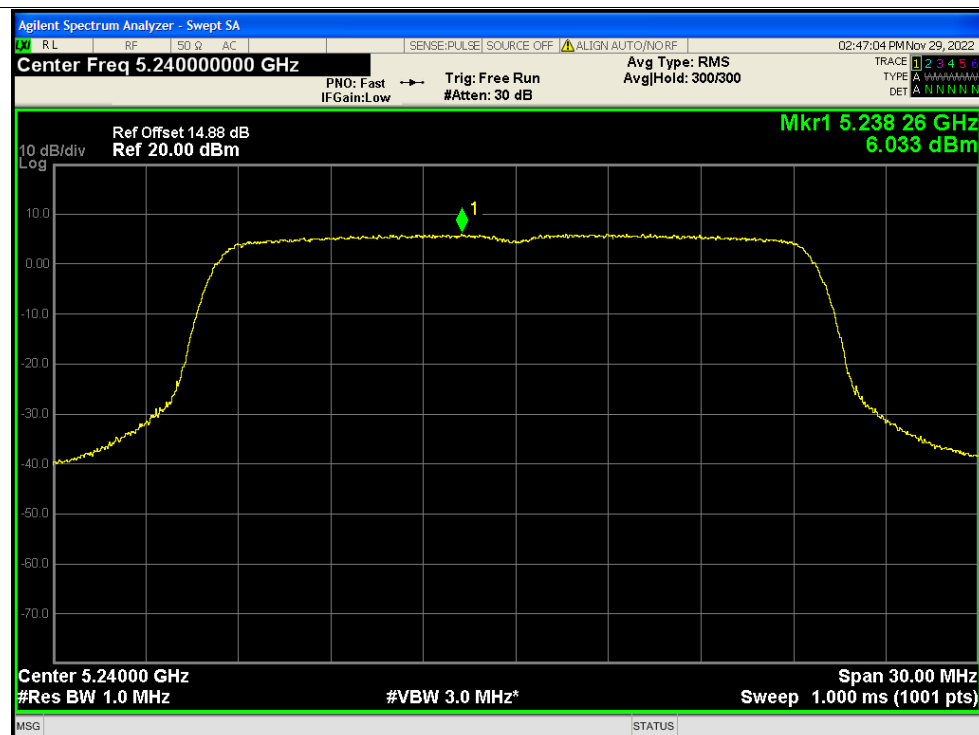




PSD NVNT ax20 5240MHz Ant3

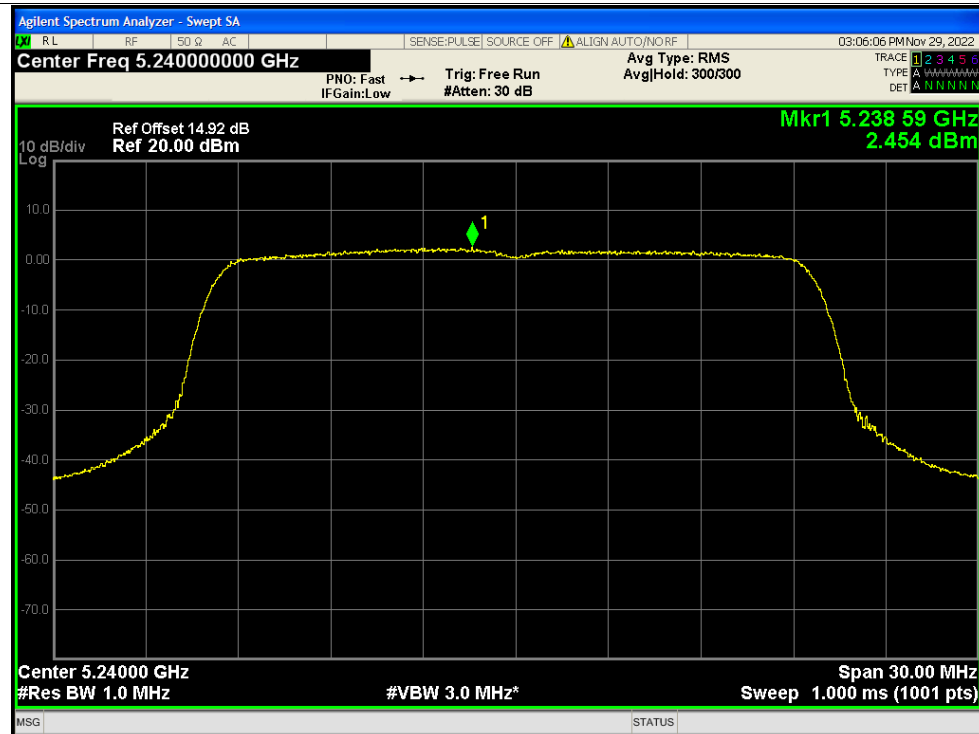


PSD NVNT ax20 5240MHz Ant4

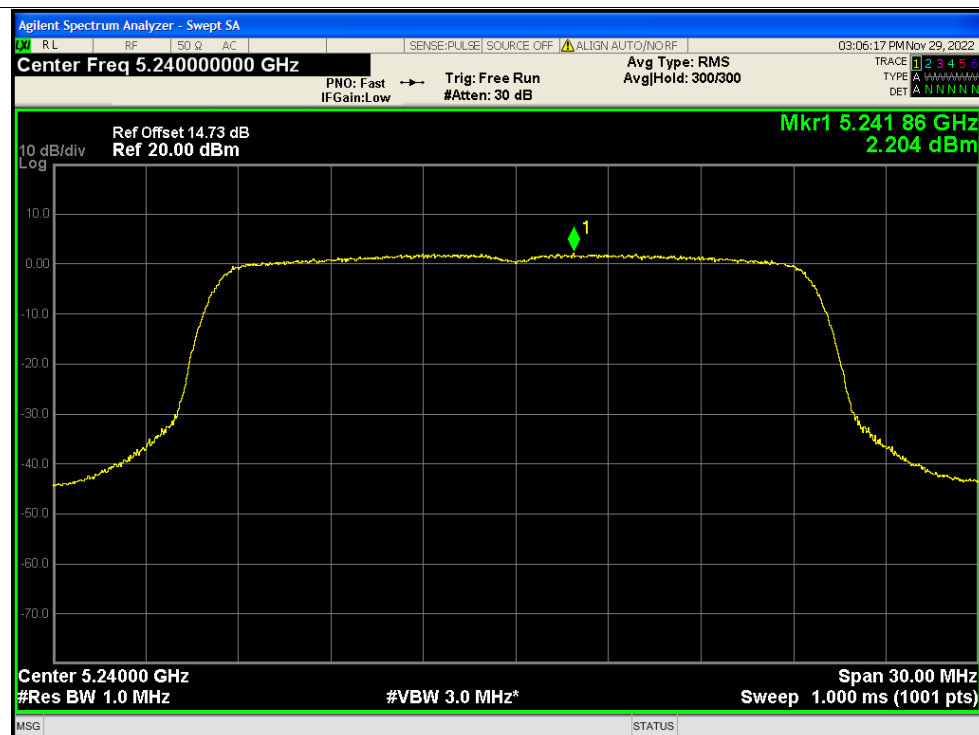




PSD NVNT ax20 5240MHz Ant1

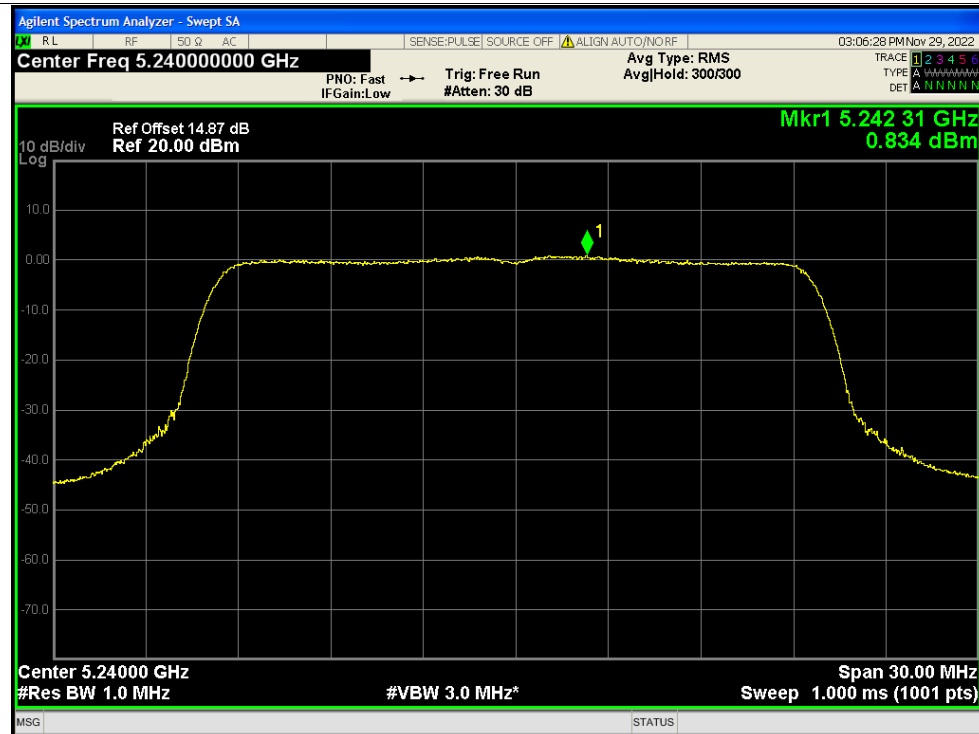


PSD NVNT ax20 5240MHz Ant2

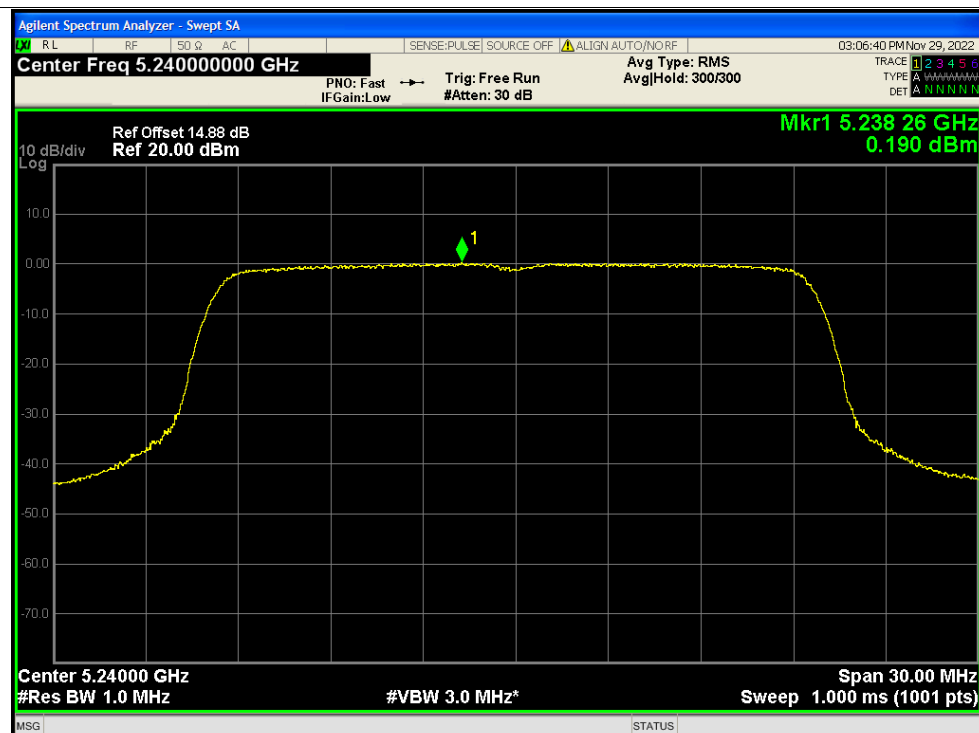




PSD NVNT ax20 5240MHz Ant3

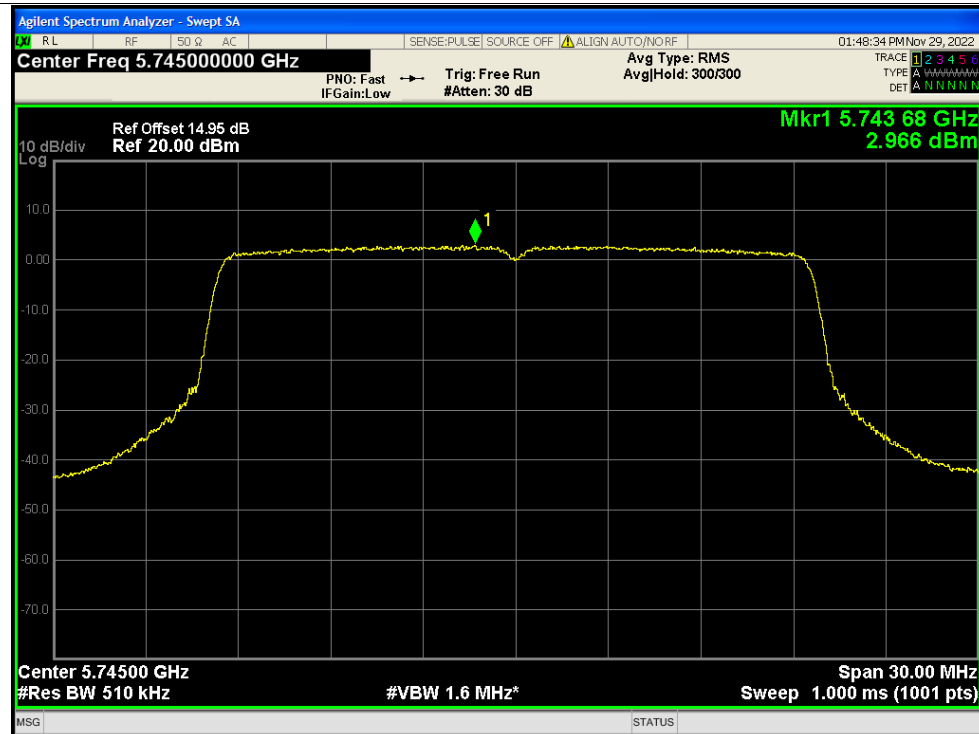


PSD NVNT ax20 5240MHz Ant4

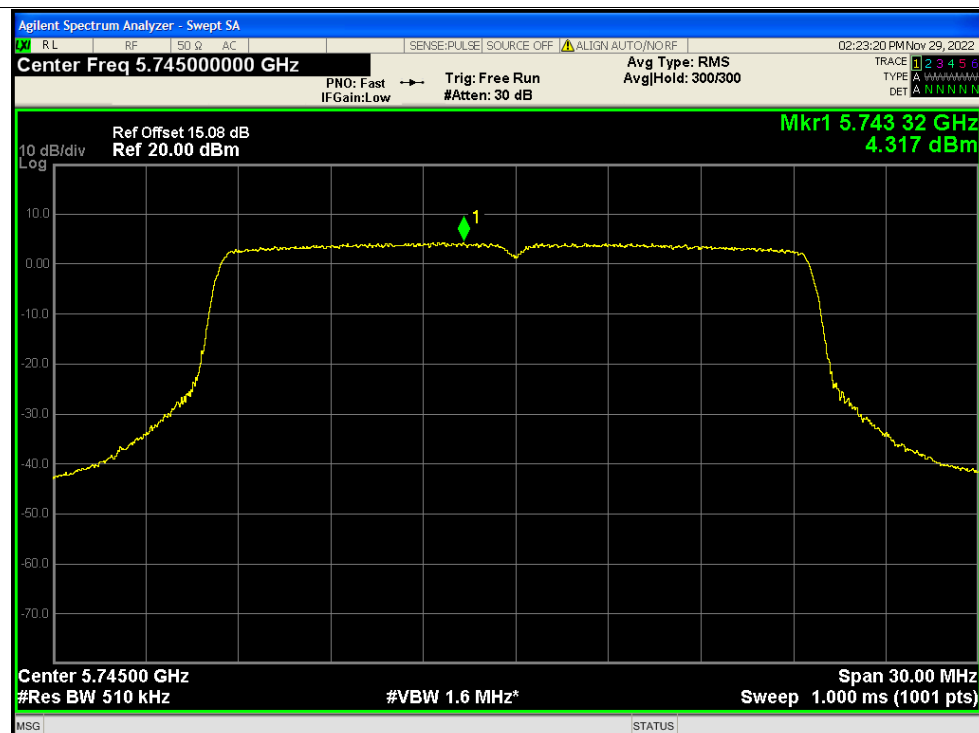




PSD NVNT ax20 5745MHz Ant1

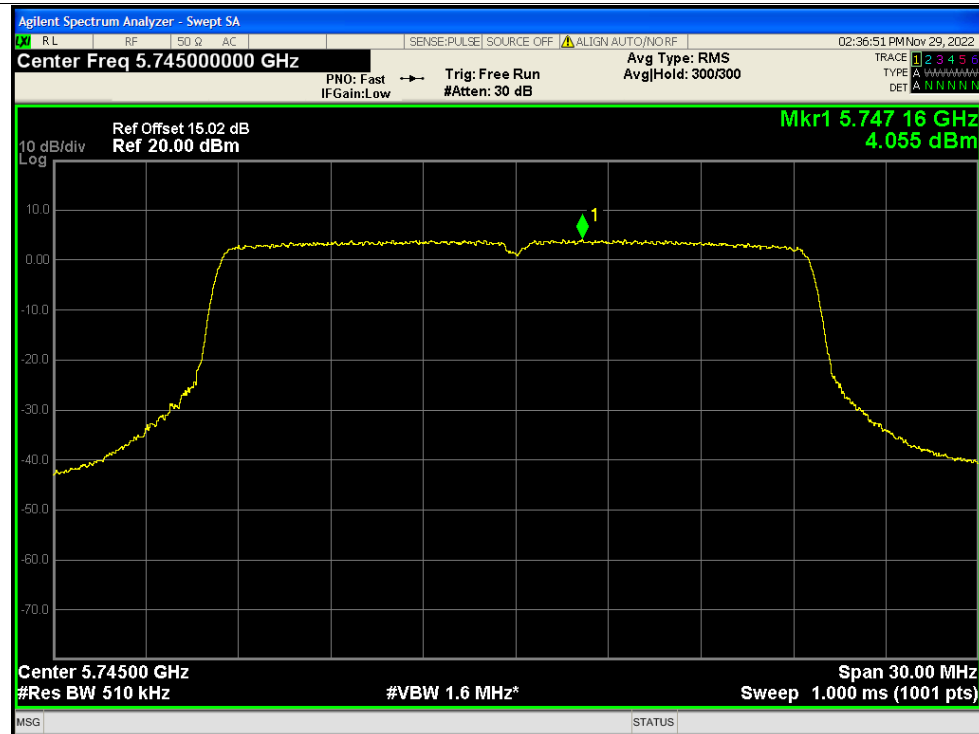


PSD NVNT ax20 5745MHz Ant2

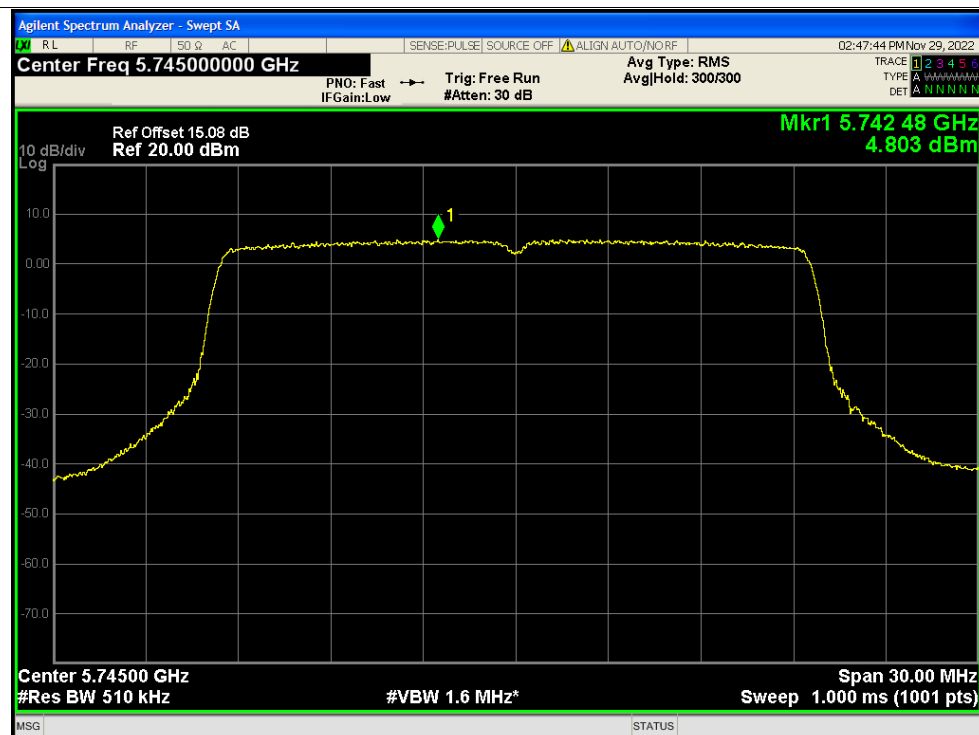




PSD NVNT ax20 5745MHz Ant3

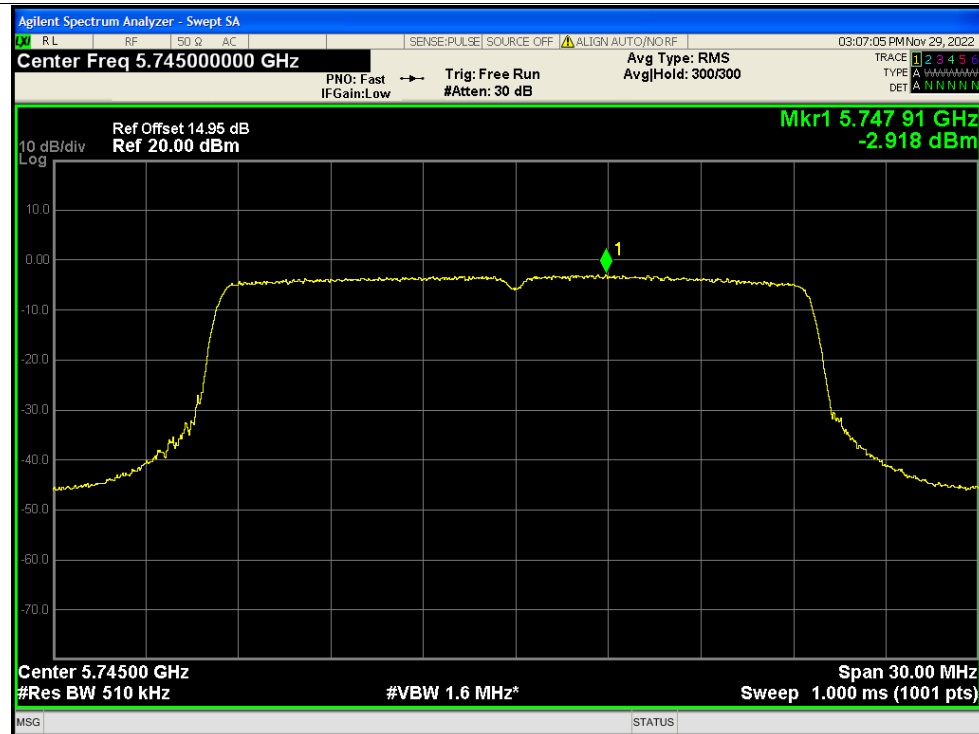


PSD NVNT ax20 5745MHz Ant4

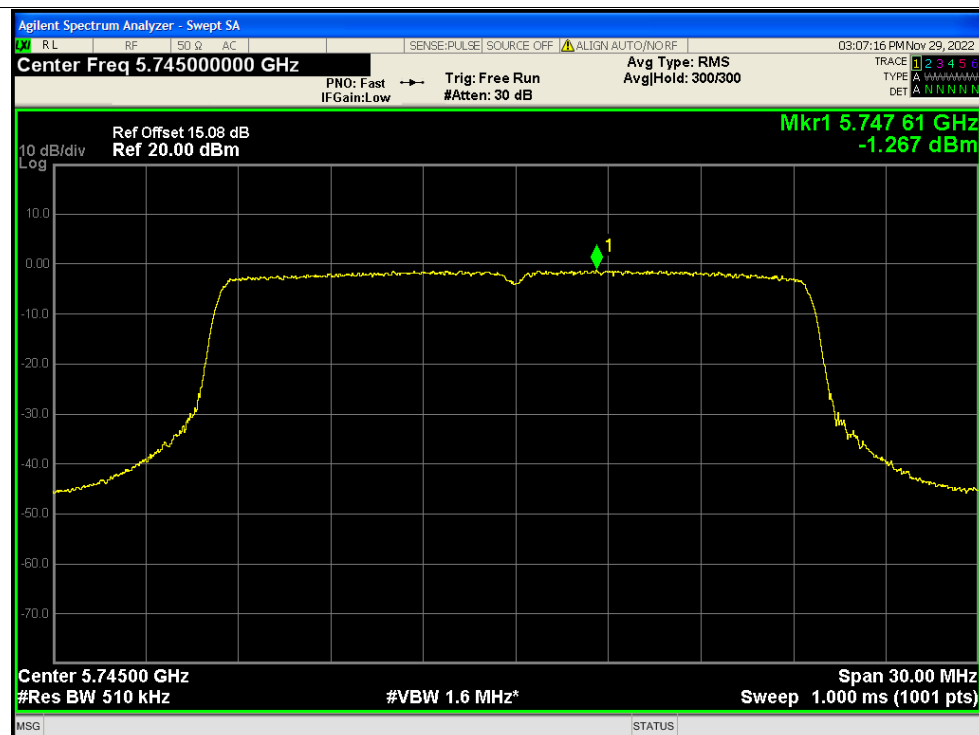




PSD NVNT ax20 5745MHz Ant1

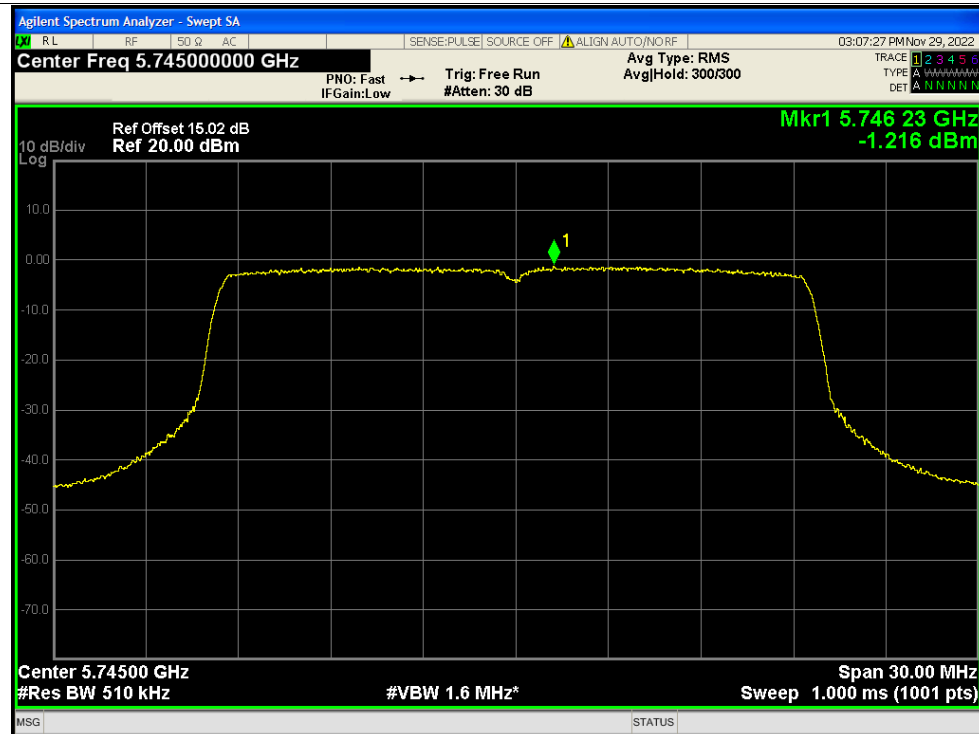


PSD NVNT ax20 5745MHz Ant2

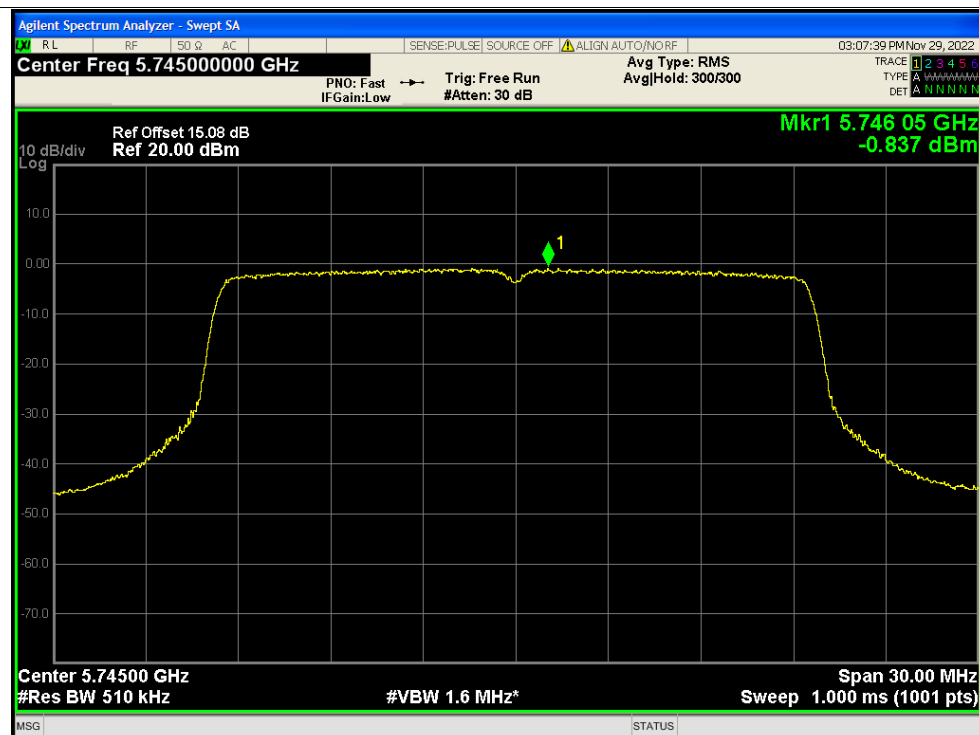




PSD NVNT ax20 5745MHz Ant3

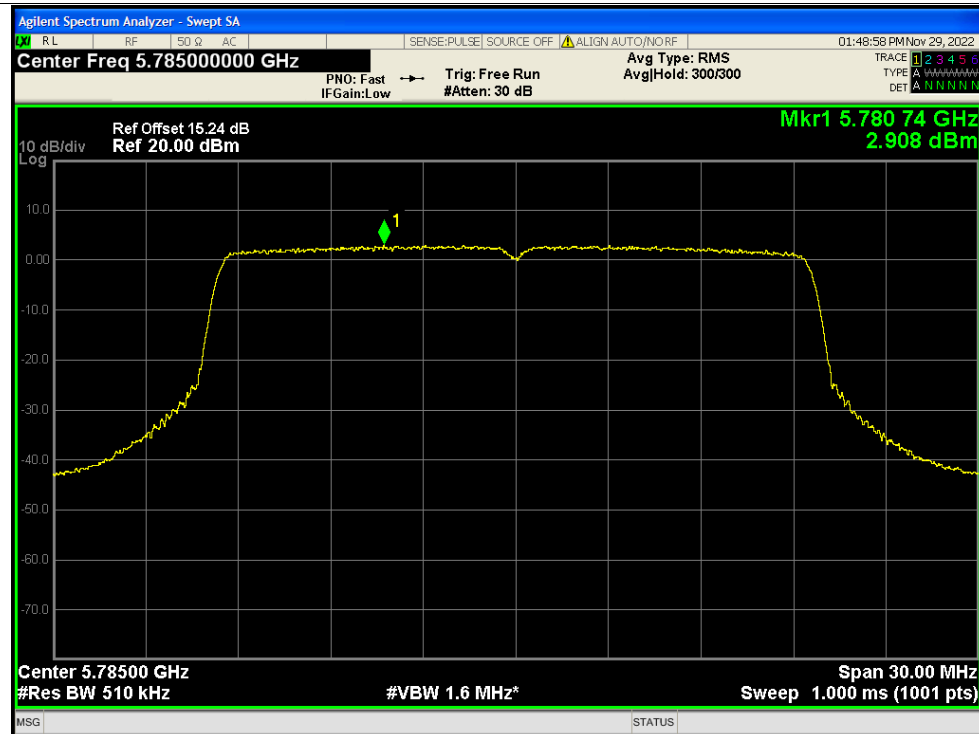


PSD NVNT ax20 5745MHz Ant4

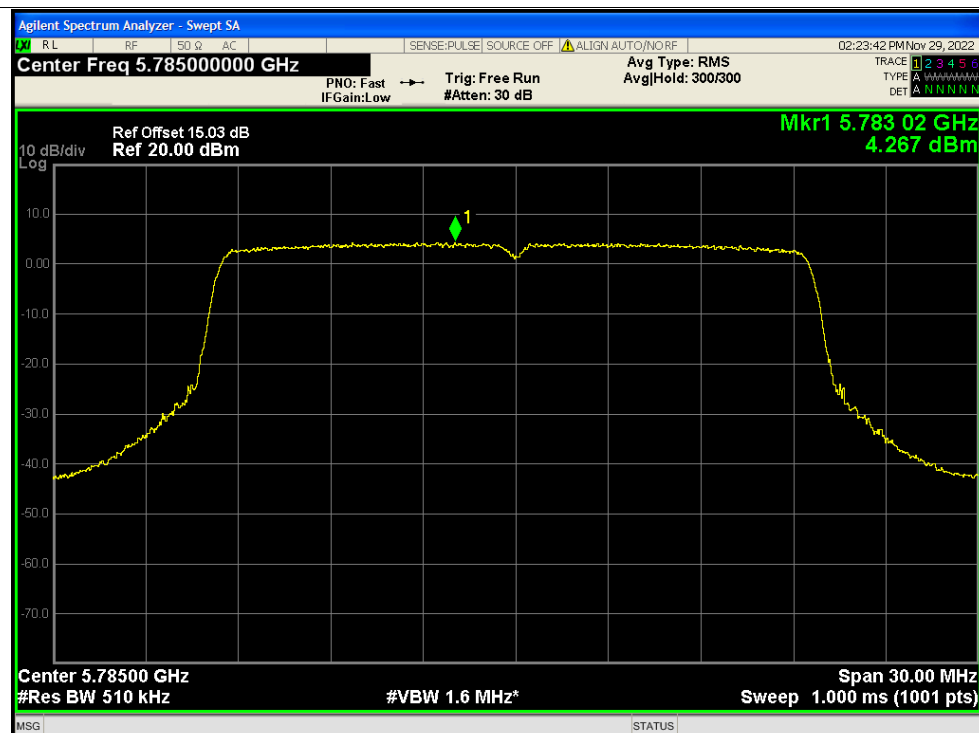




PSD NVNT ax20 5785MHz Ant1

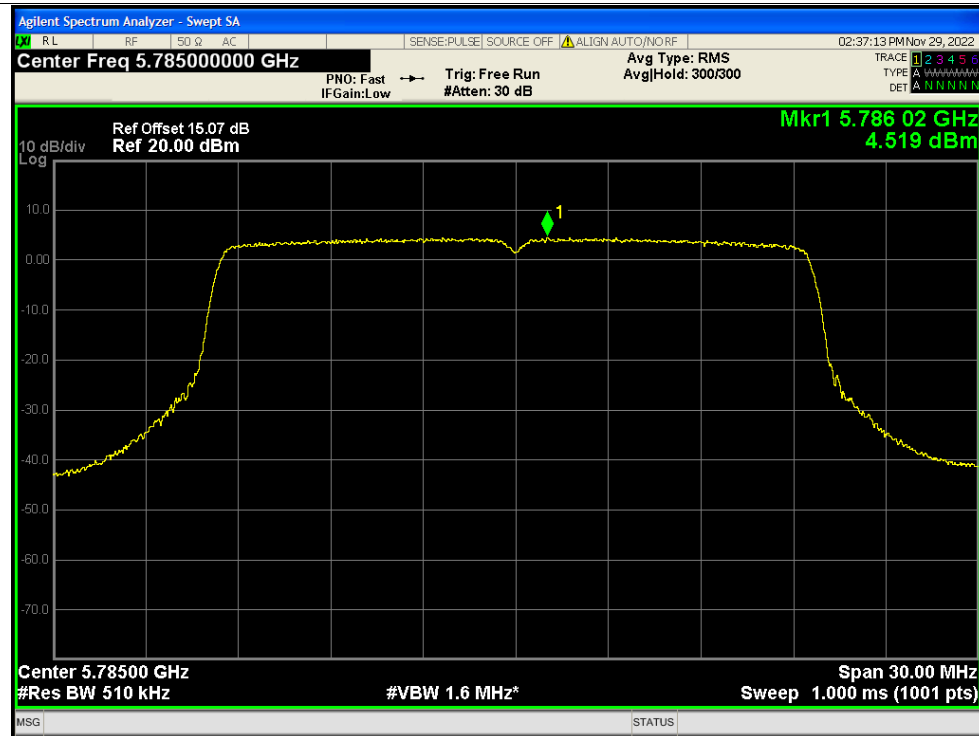


PSD NVNT ax20 5785MHz Ant2

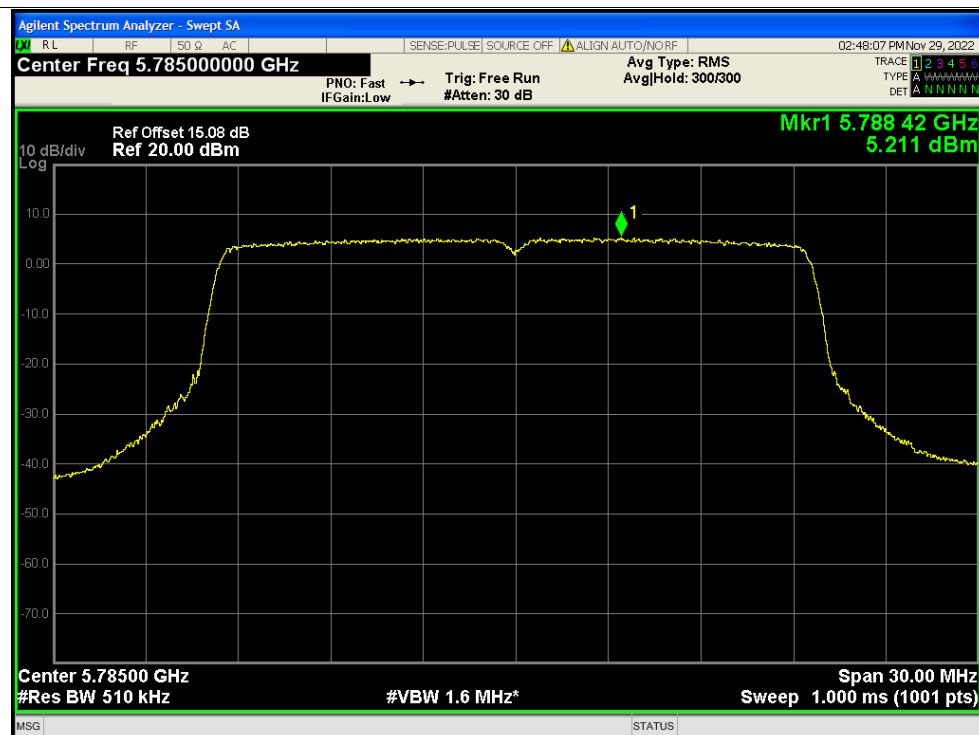




PSD NVNT ax20 5785MHz Ant3

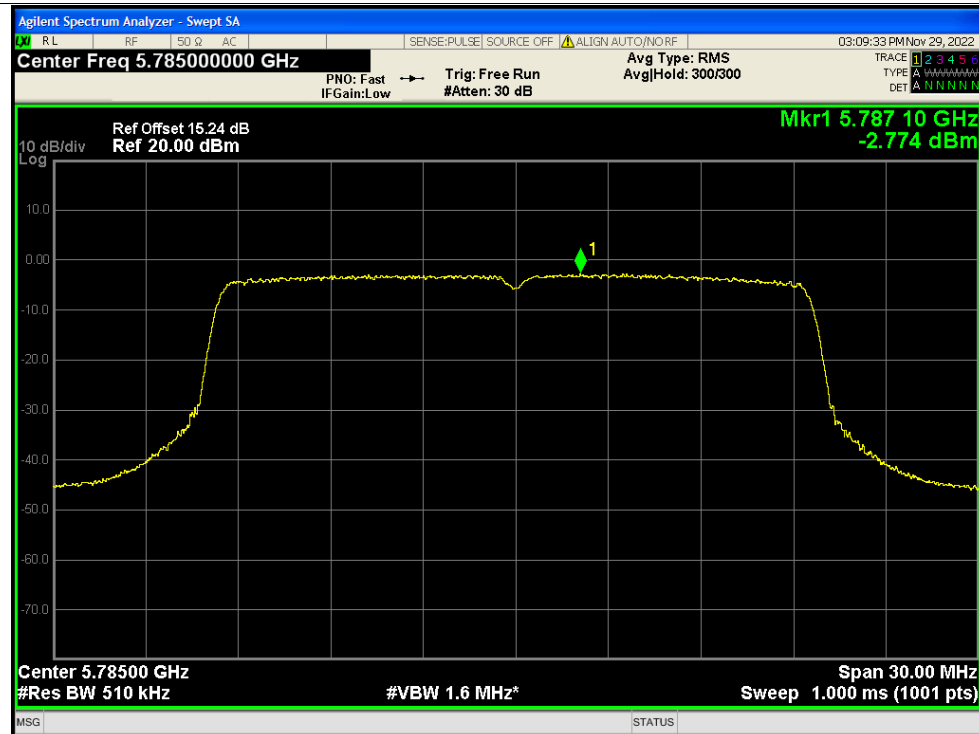


PSD NVNT ax20 5785MHz Ant4

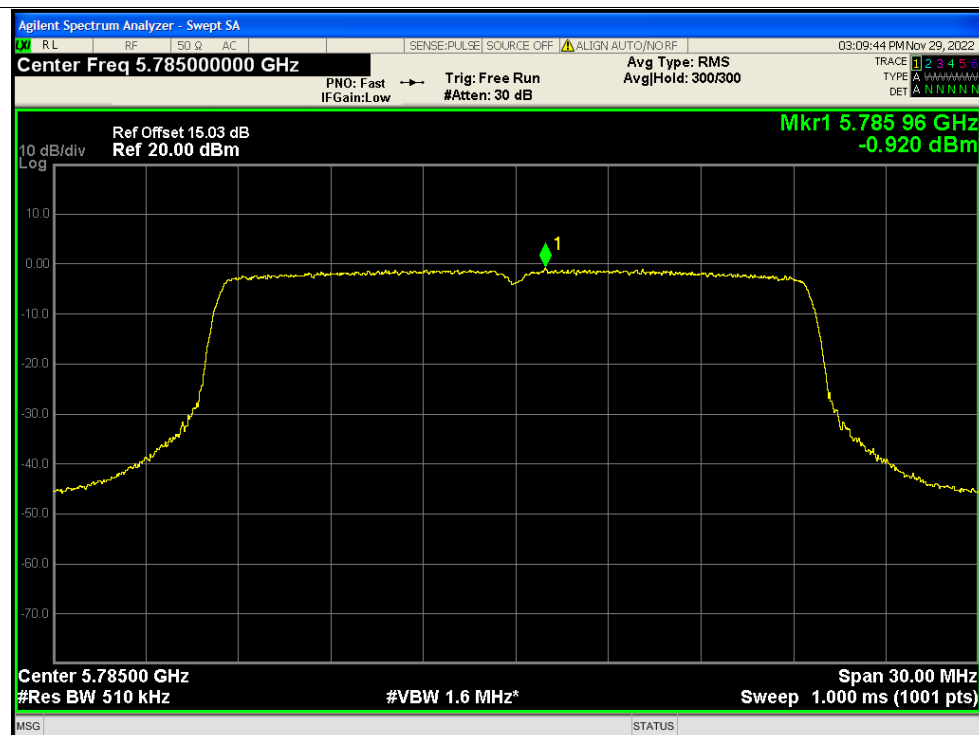




PSD NVNT ax20 5785MHz Ant1

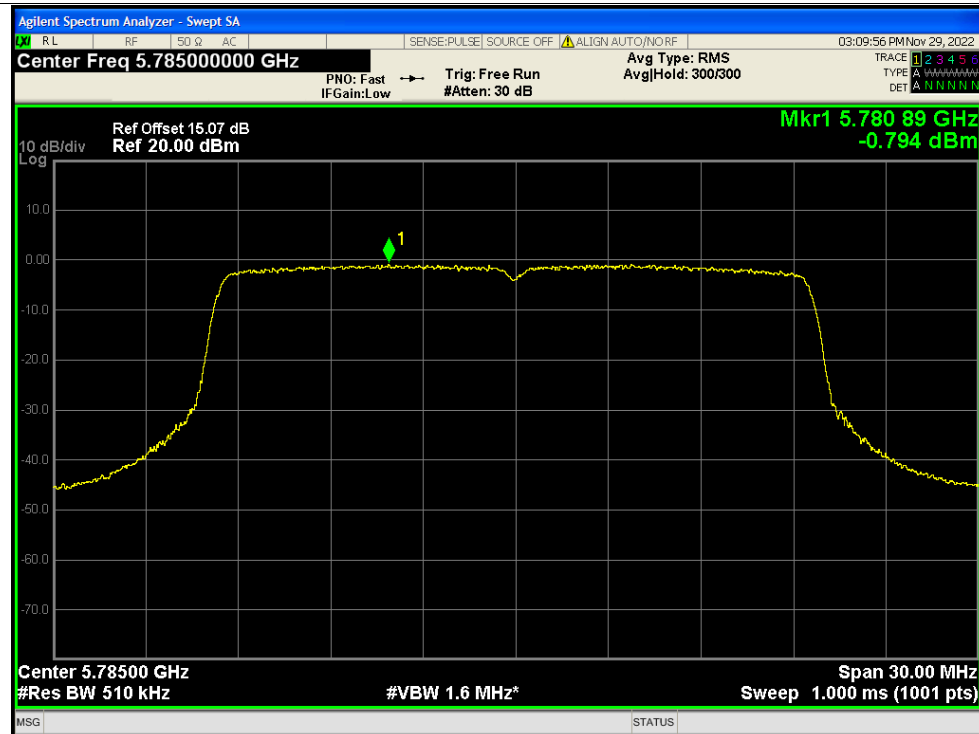


PSD NVNT ax20 5785MHz Ant2

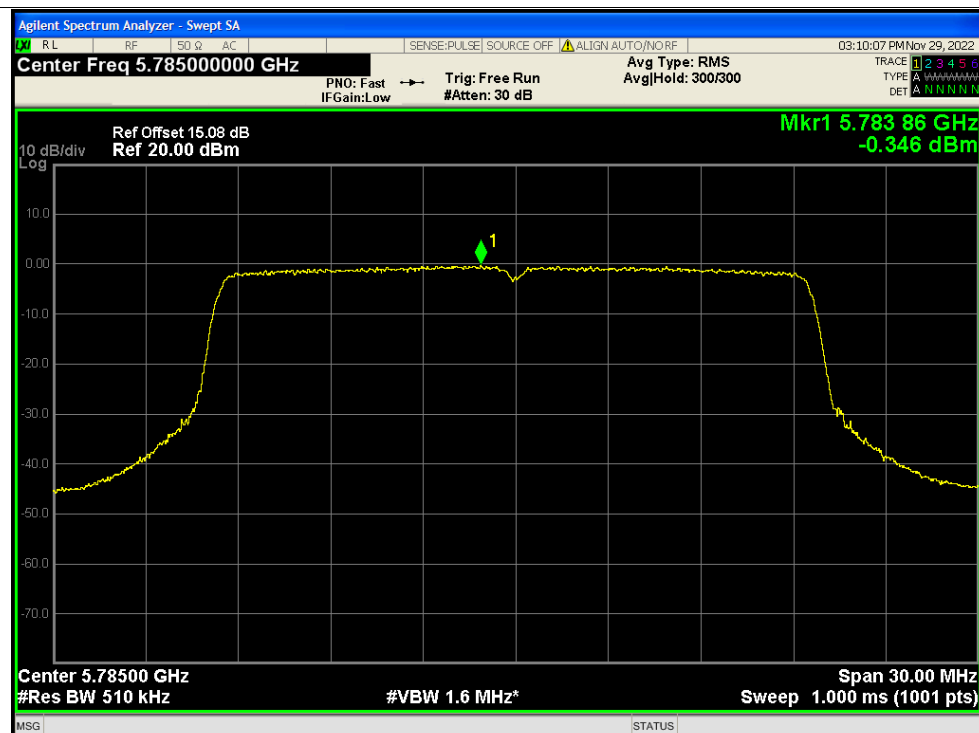




PSD NVNT ax20 5785MHz Ant3

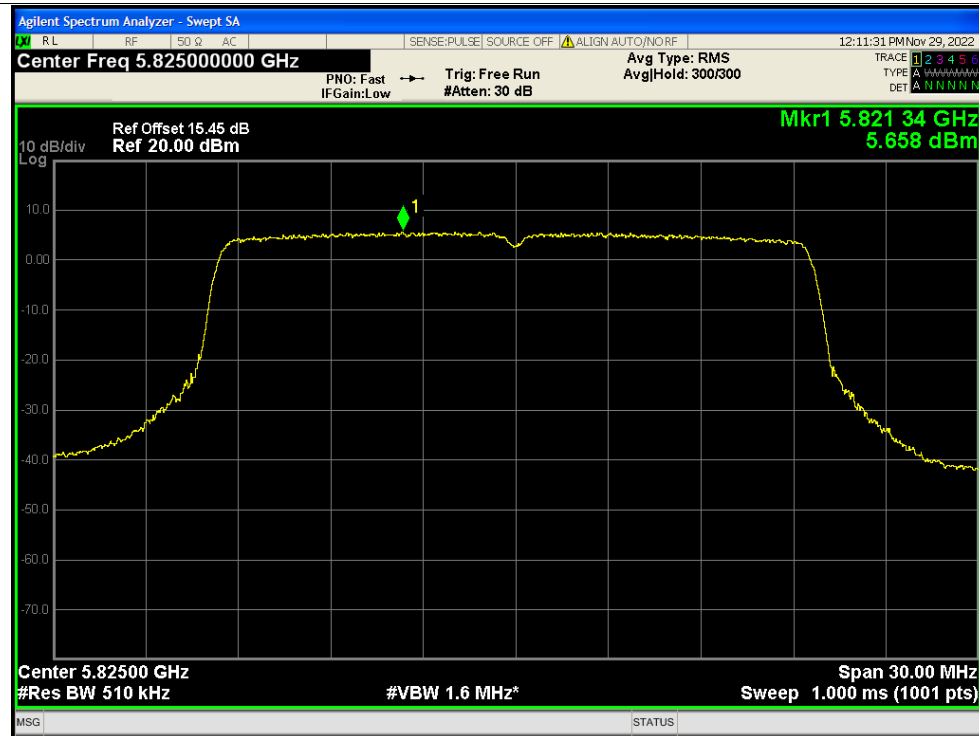


PSD NVNT ax20 5785MHz Ant4

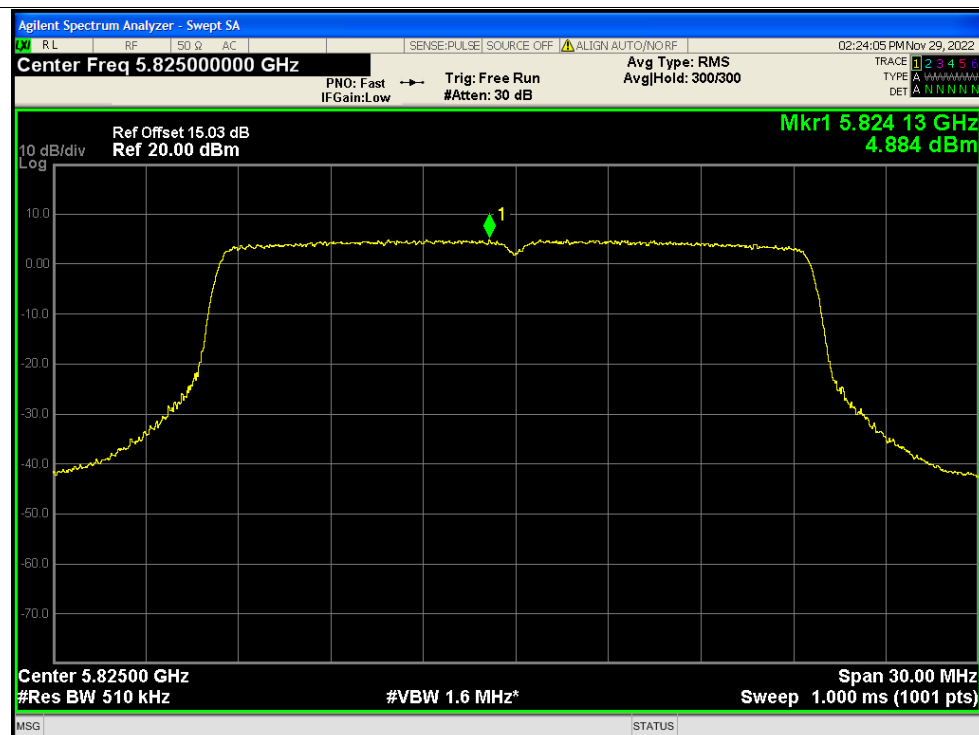




PSD NVNT ax20 5825MHz Ant1

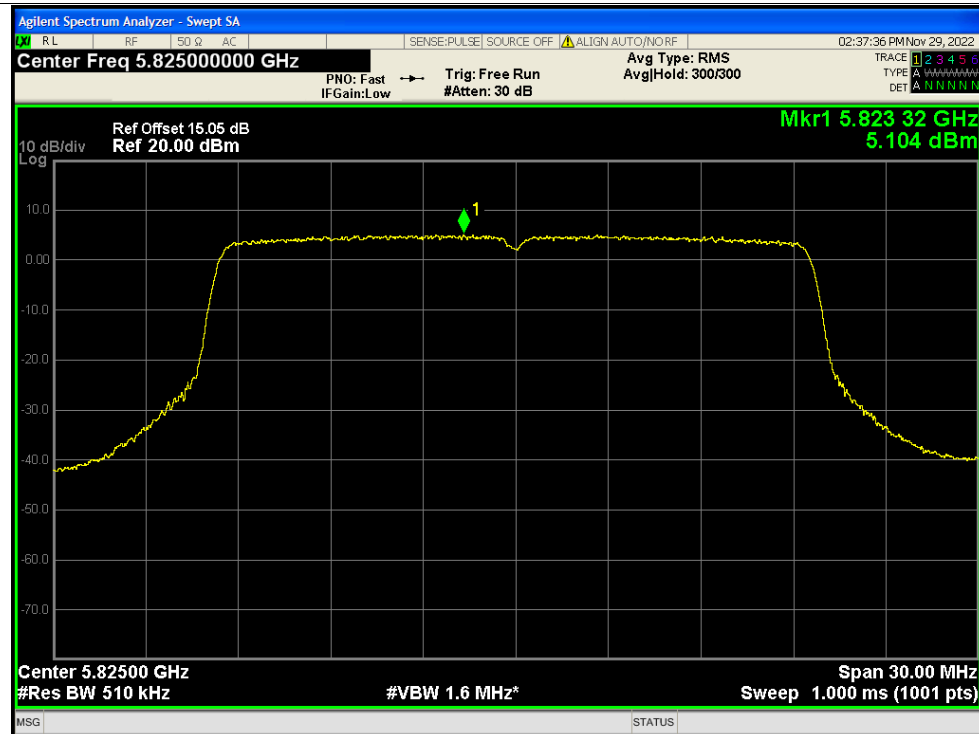


PSD NVNT ax20 5825MHz Ant2

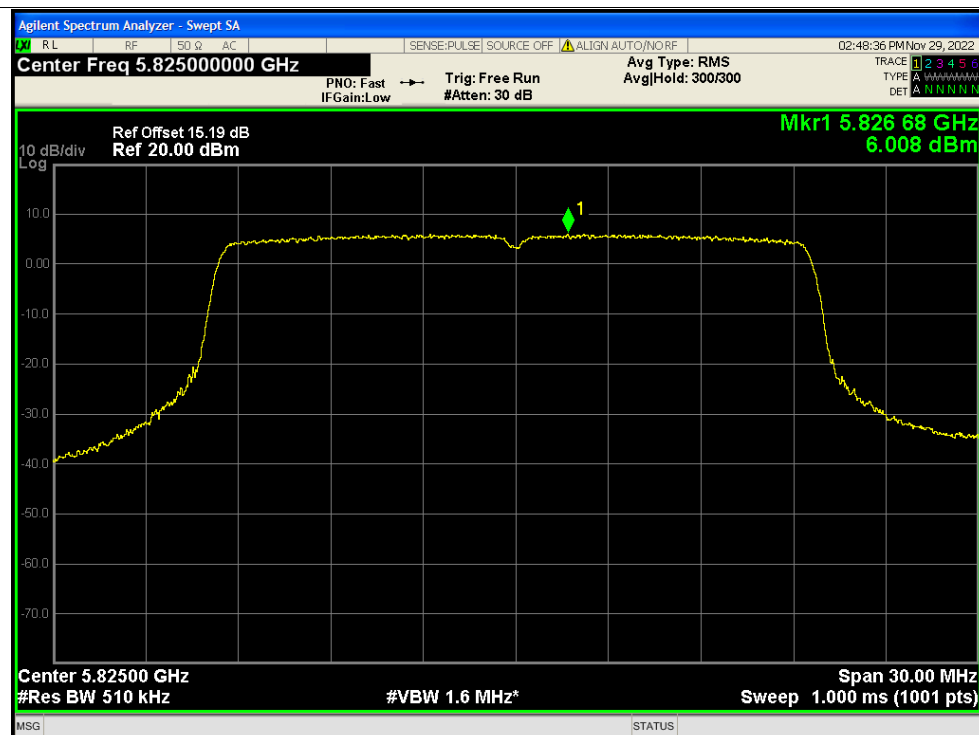




PSD NVNT ax20 5825MHz Ant3

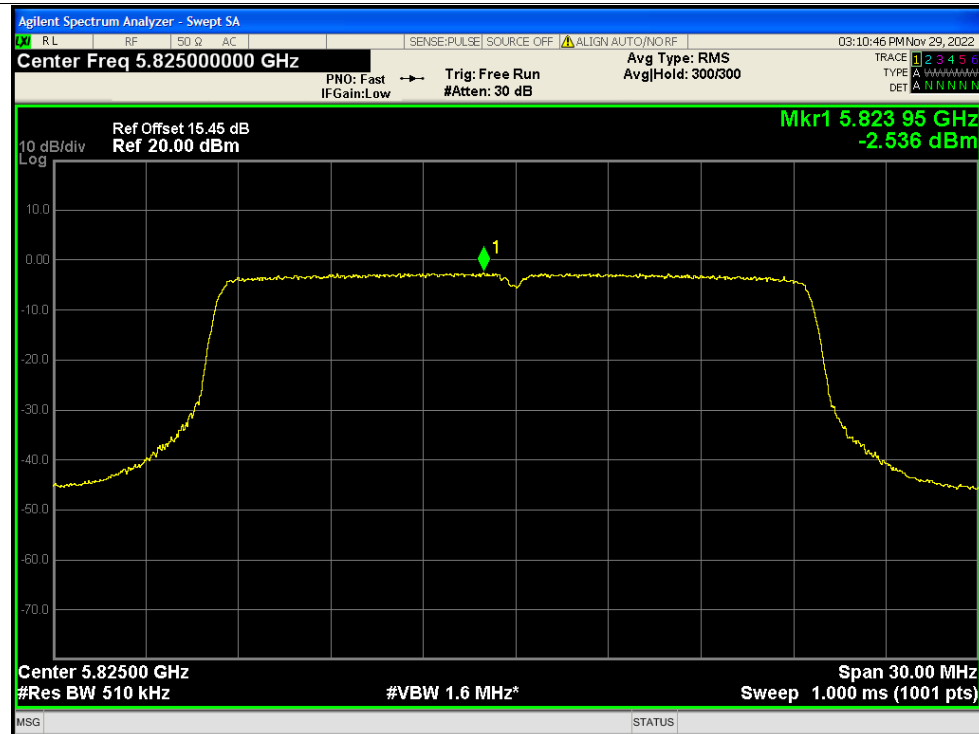


PSD NVNT ax20 5825MHz Ant4

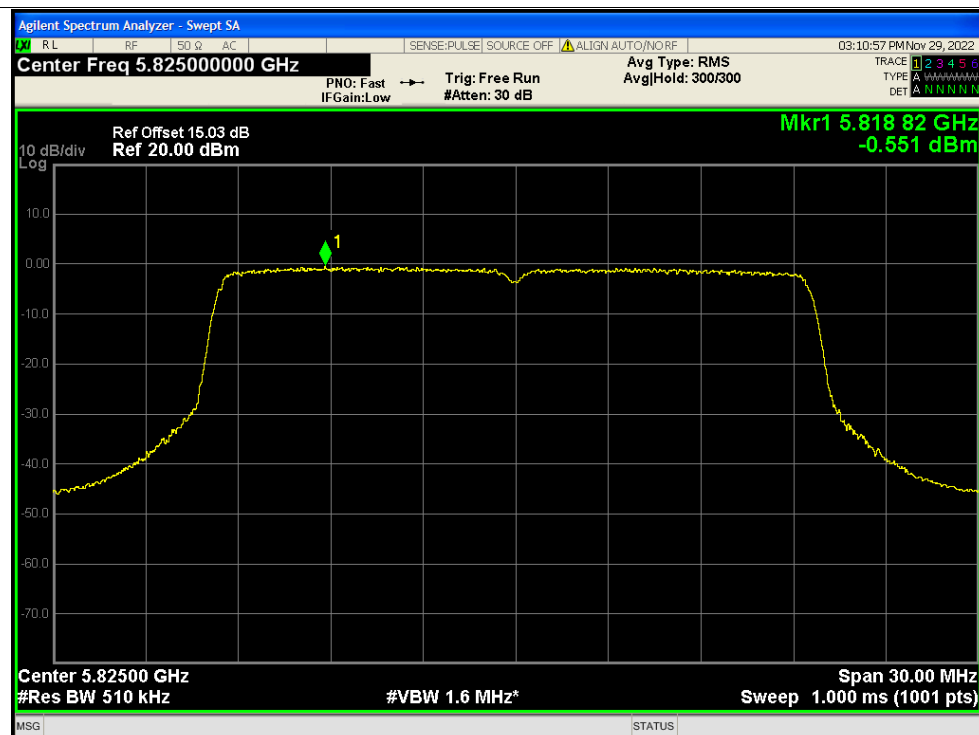




PSD NVNT ax20 5825MHz Ant1

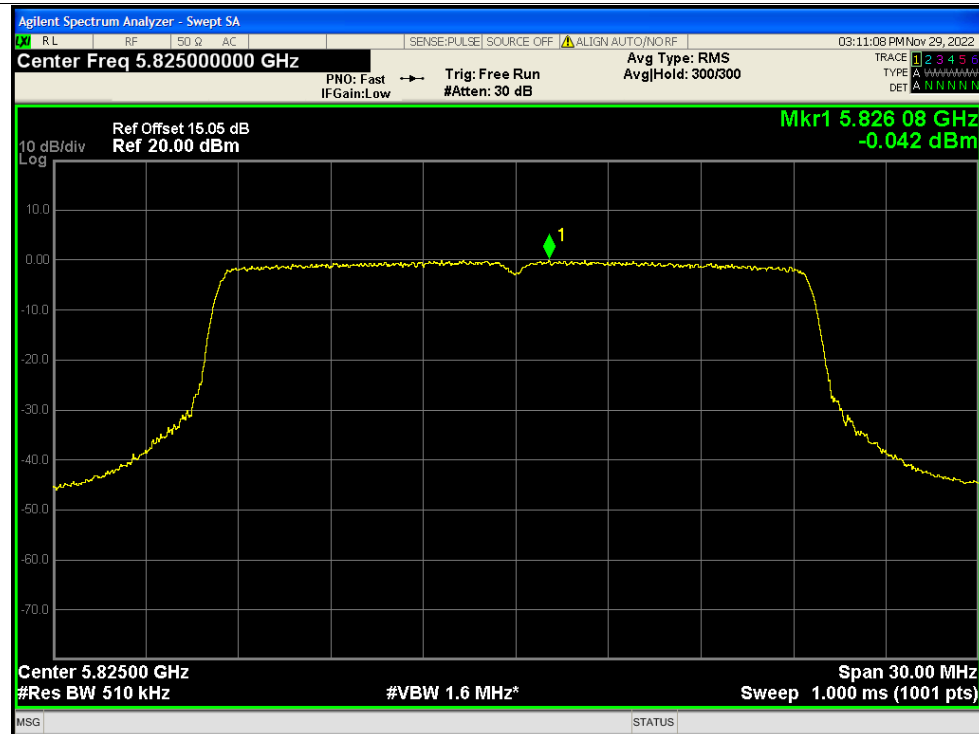


PSD NVNT ax20 5825MHz Ant2

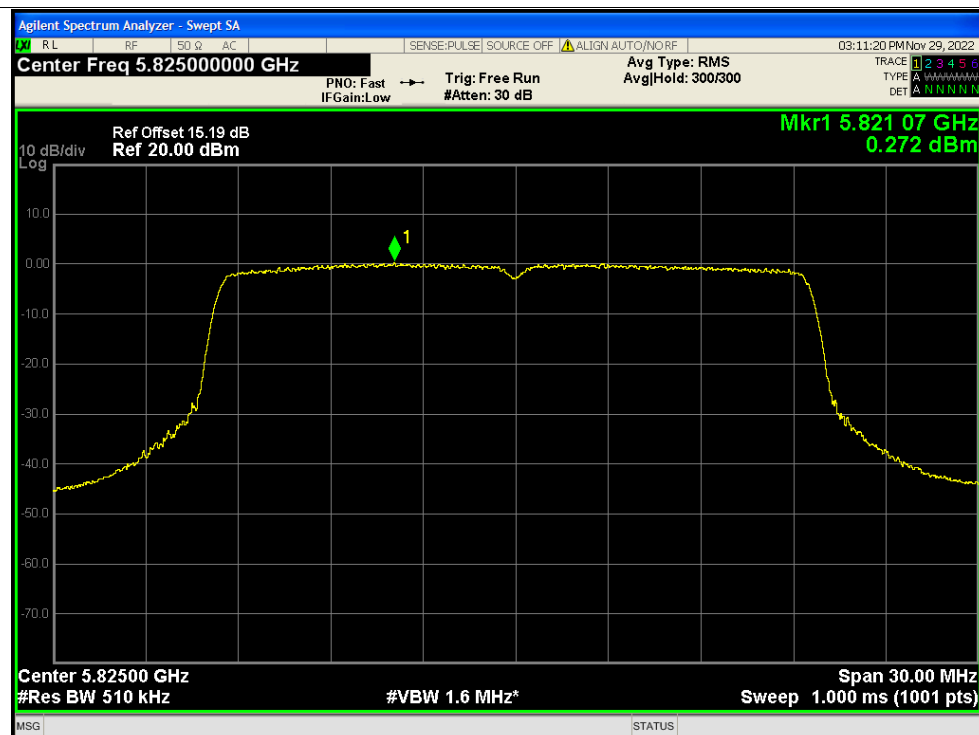




PSD NVNT ax20 5825MHz Ant3

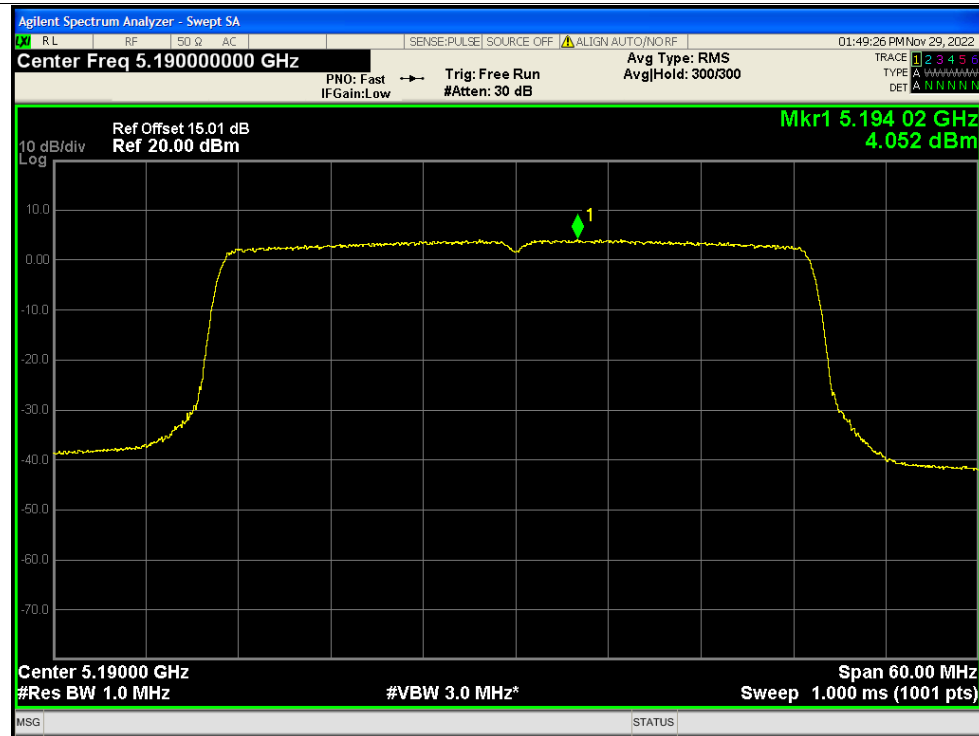


PSD NVNT ax20 5825MHz Ant4

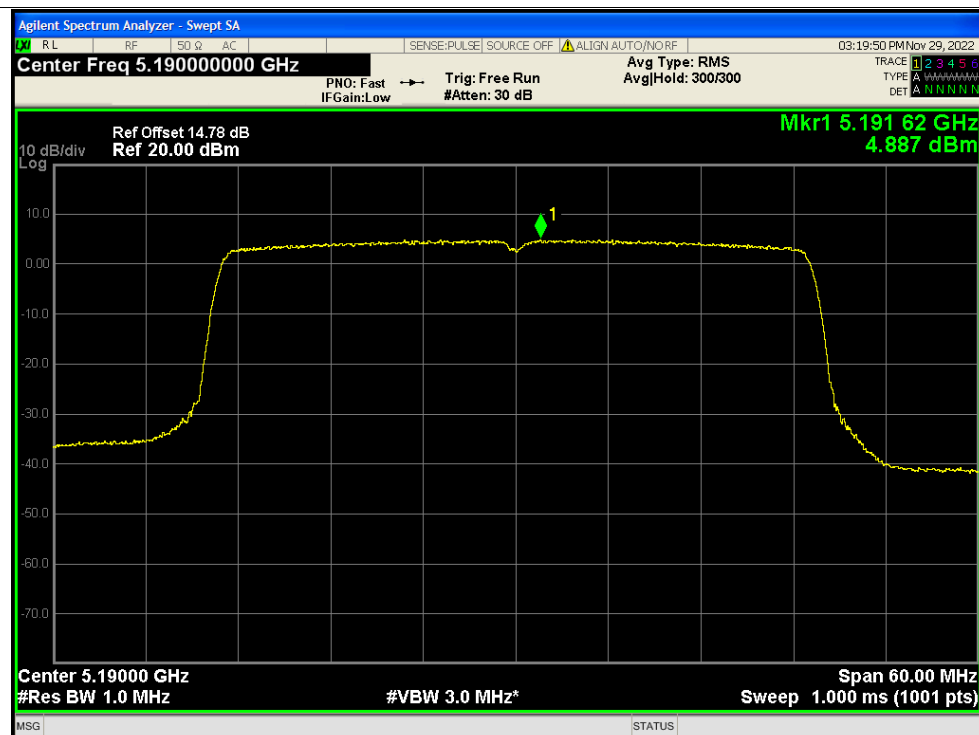




PSD NVNT ax40 5190MHz Ant1

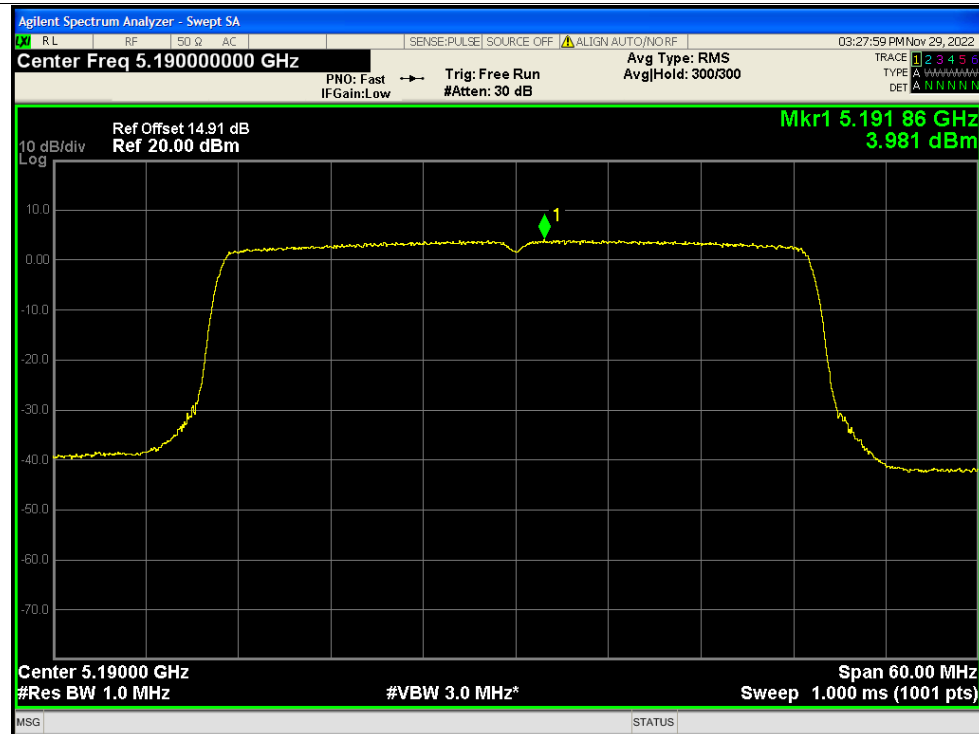


PSD NVNT ax40 5190MHz Ant2

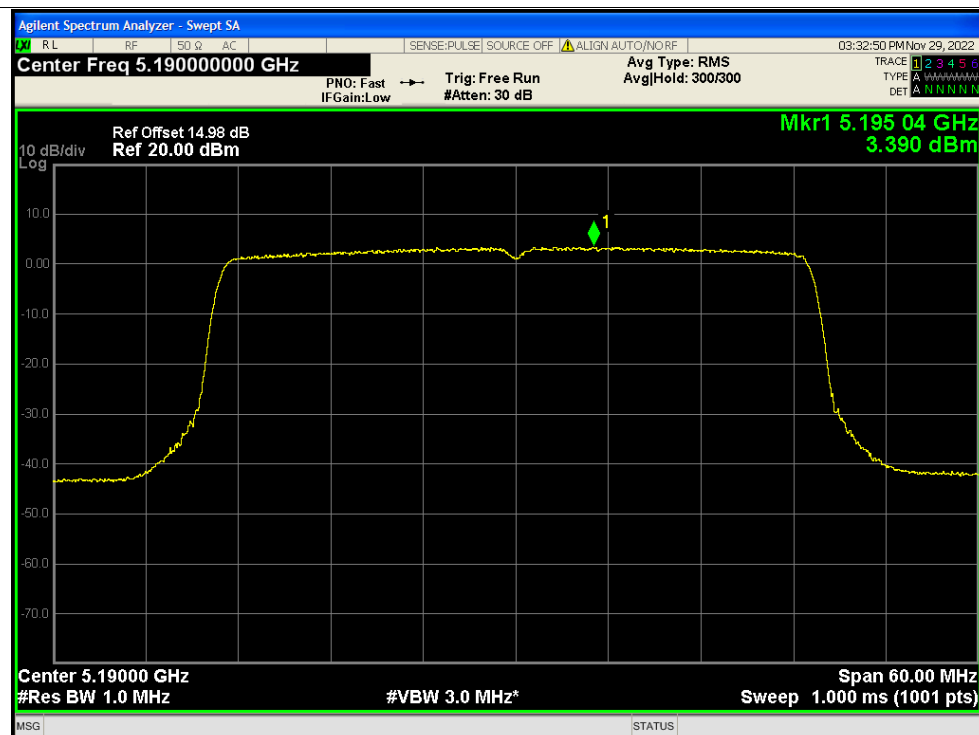




PSD NVNT ax40 5190MHz Ant3

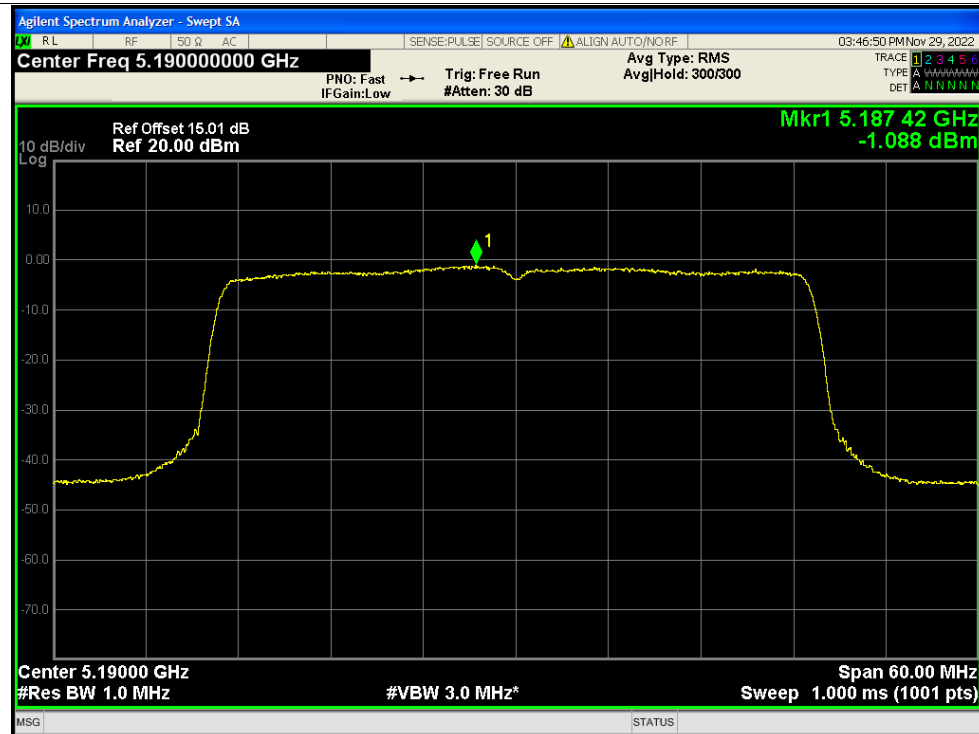


PSD NVNT ax40 5190MHz Ant4

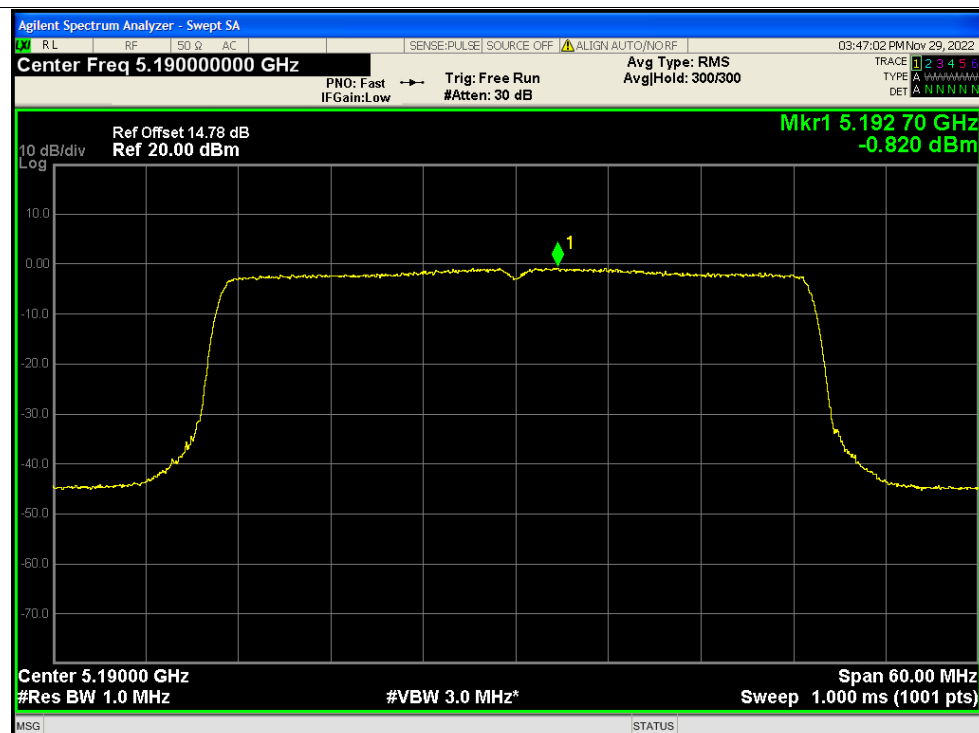




PSD NVNT ax40 5190MHz Ant1

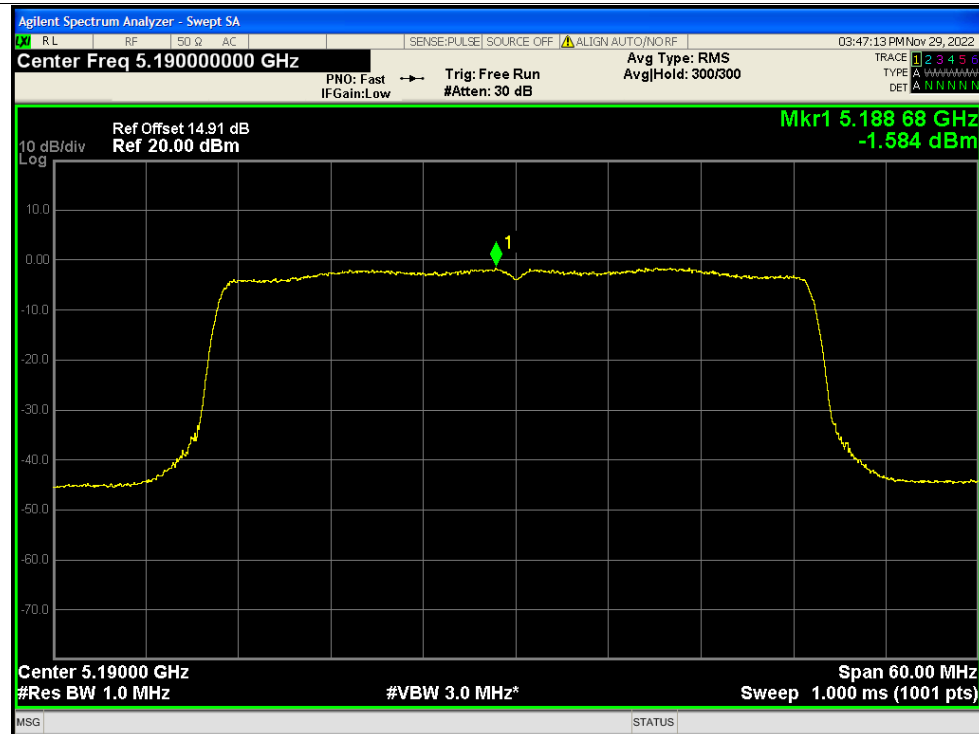


PSD NVNT ax40 5190MHz Ant2

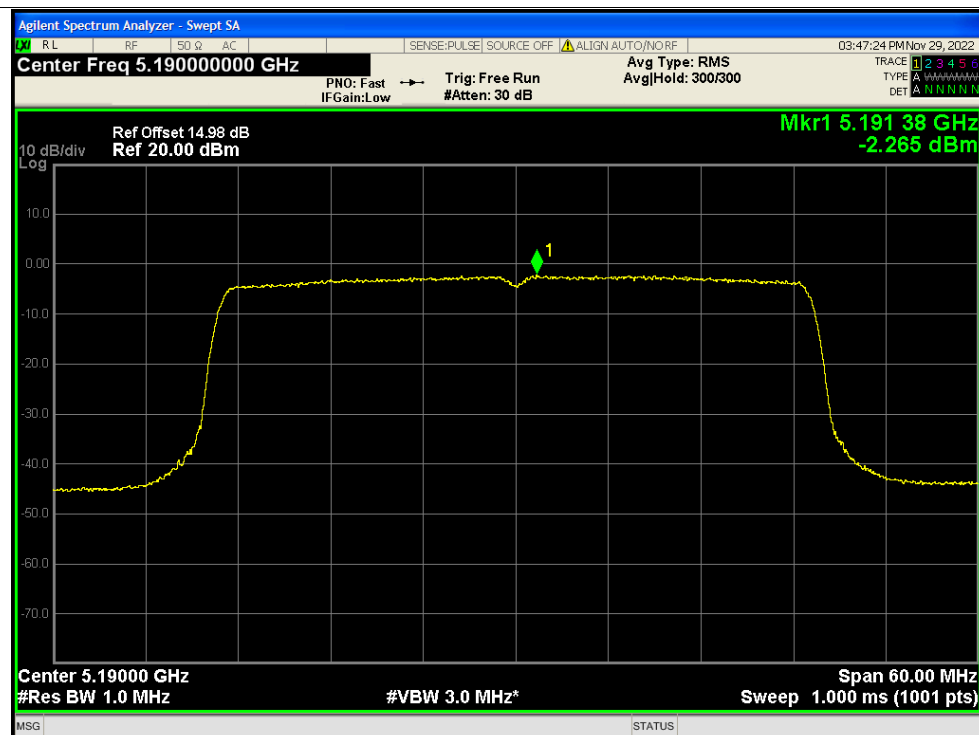




PSD NVNT ax40 5190MHz Ant3

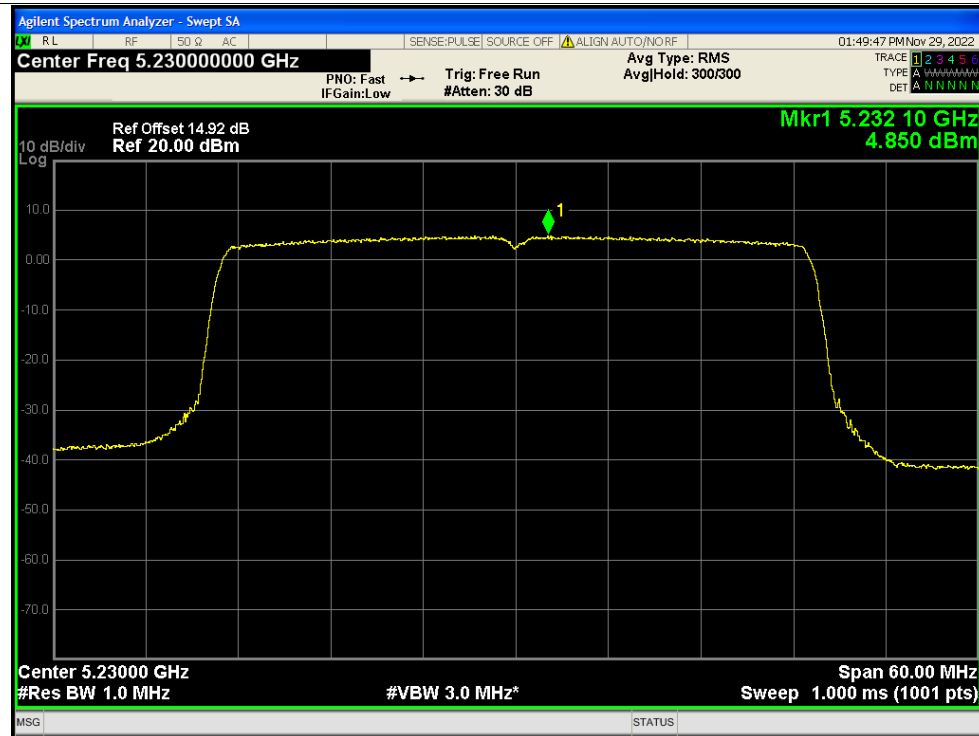


PSD NVNT ax40 5190MHz Ant4

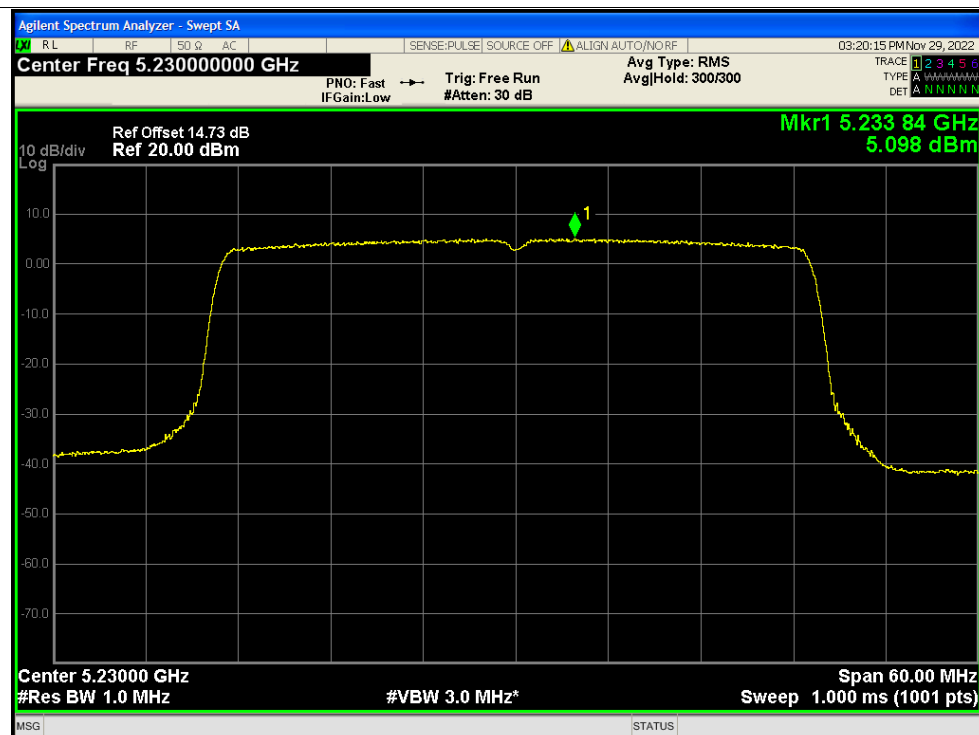




PSD NVNT ax40 5230MHz Ant1

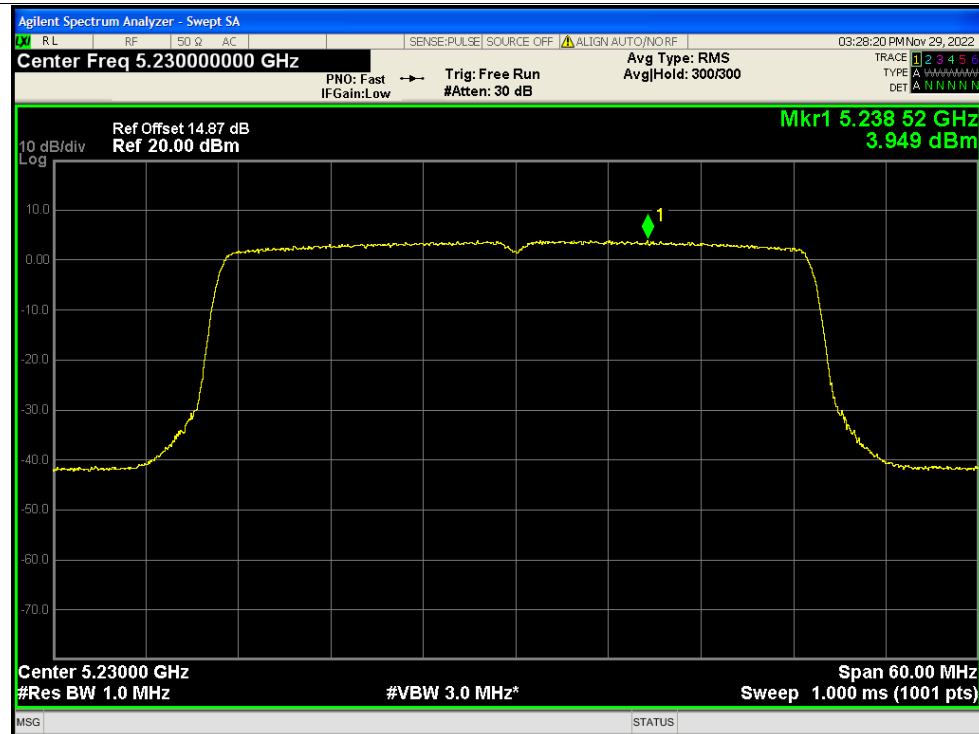


PSD NVNT ax40 5230MHz Ant2

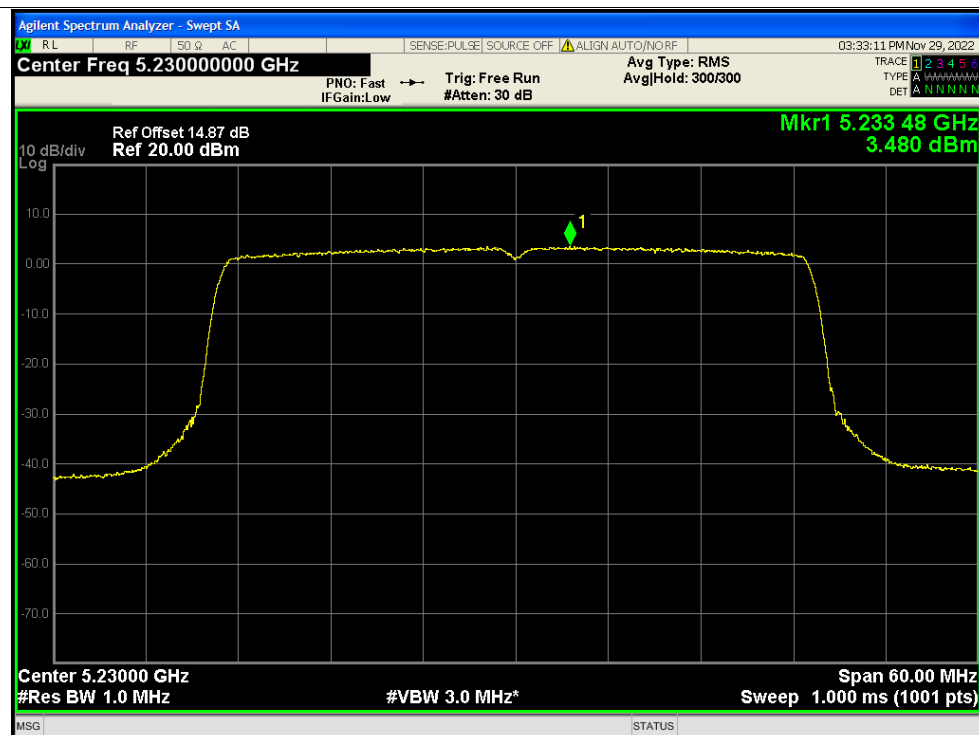




PSD NVNT ax40 5230MHz Ant3

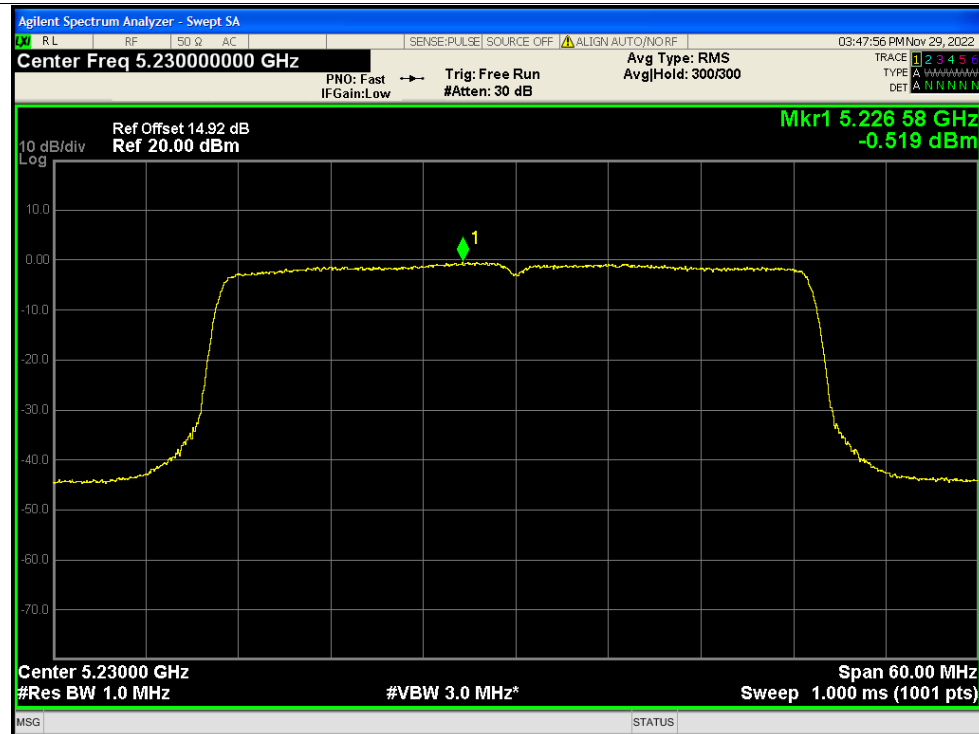


PSD NVNT ax40 5230MHz Ant4

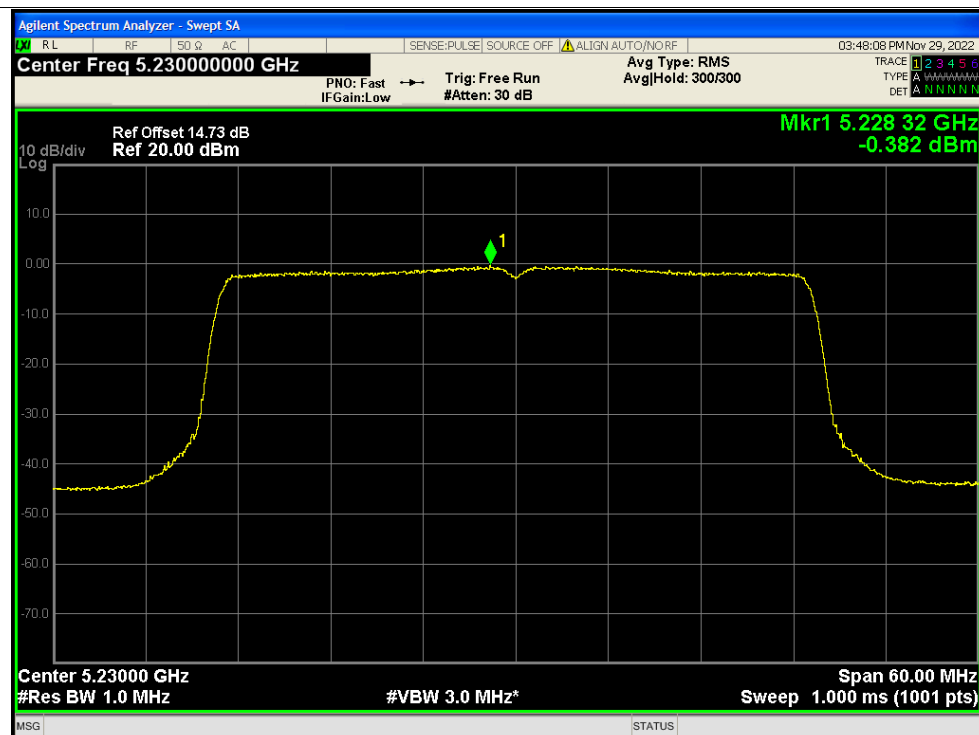




PSD NVNT ax40 5230MHz Ant1

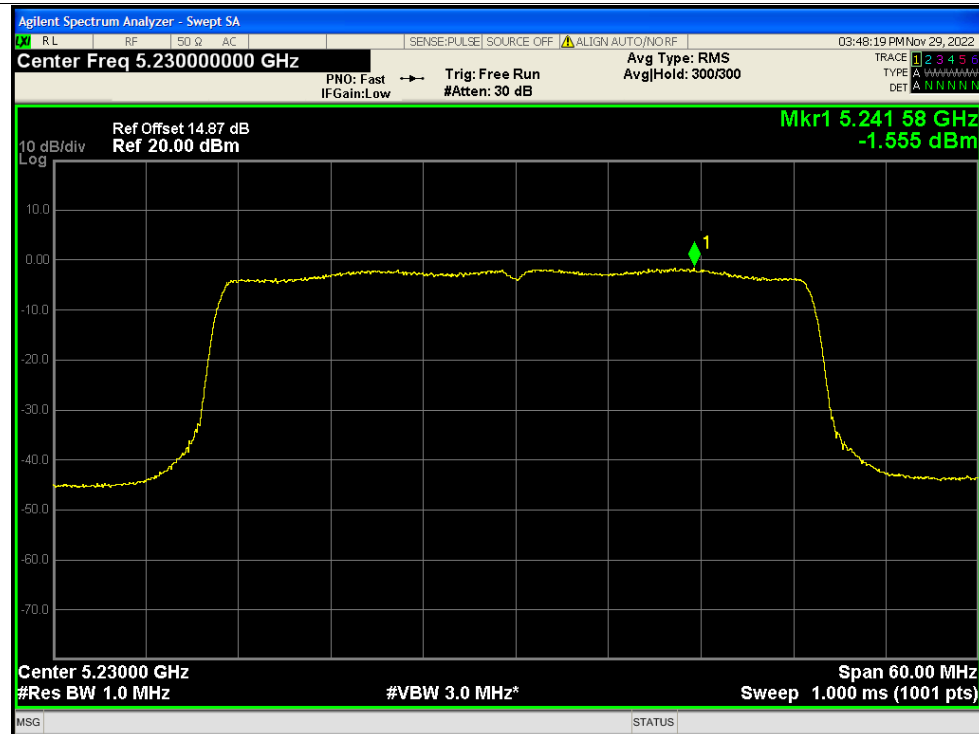


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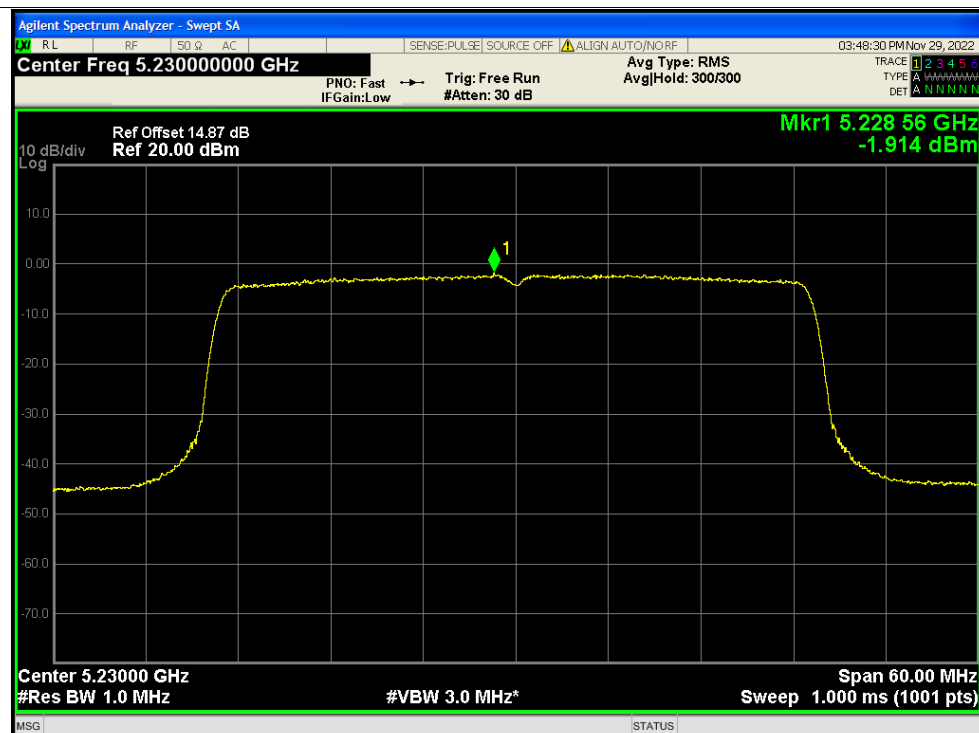




PSD NVNT ax40 5230MHz Ant3

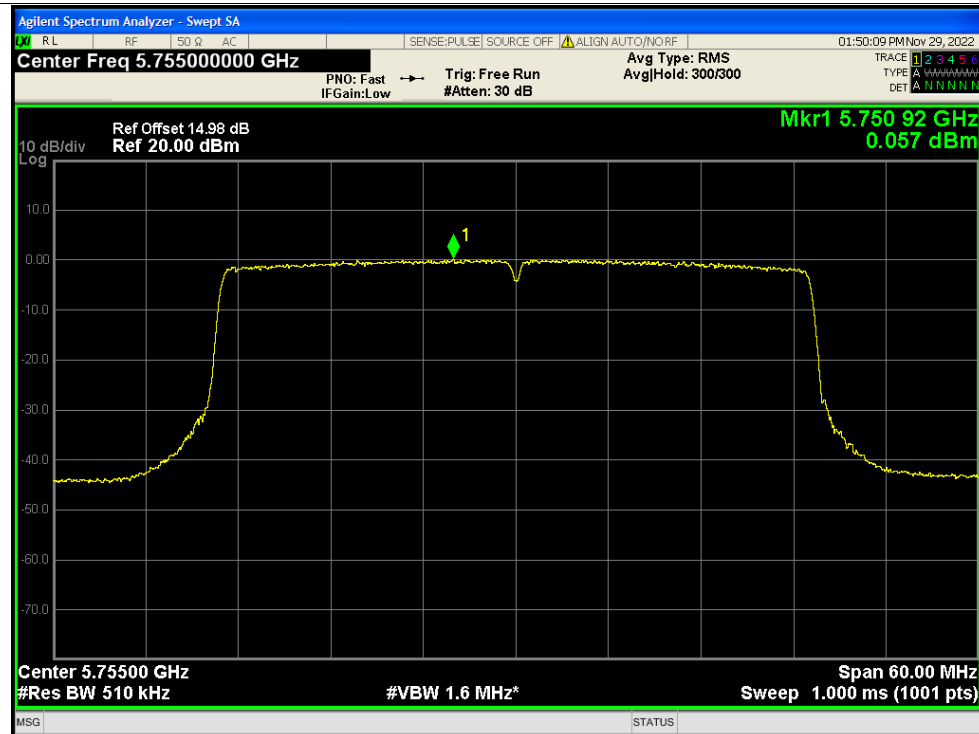


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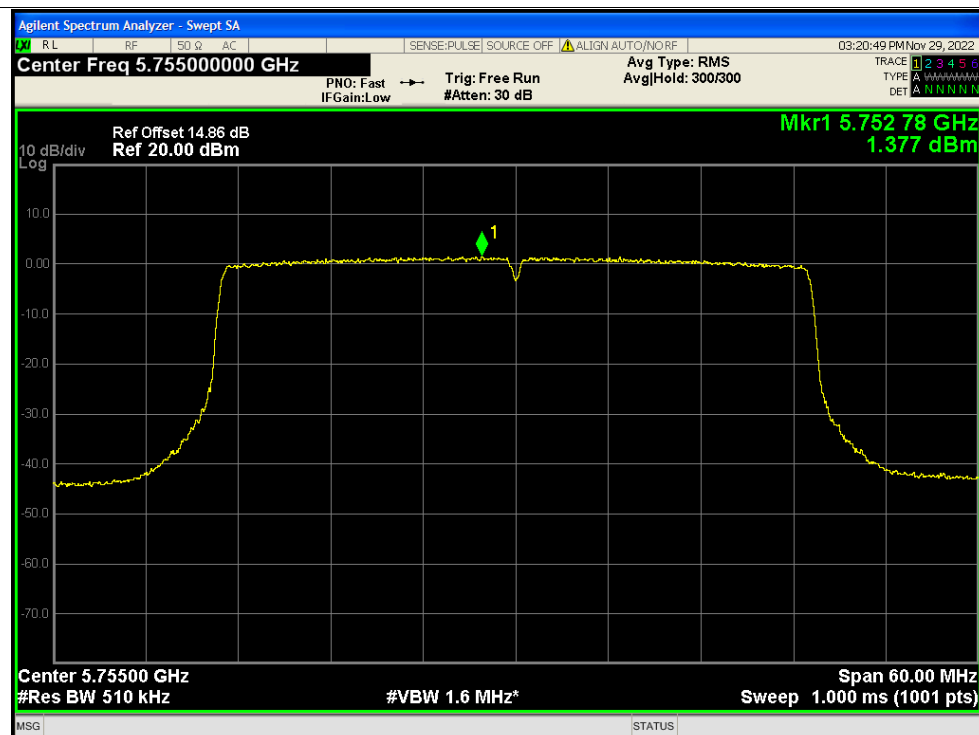




PSD NVNT ax40 5755MHz Ant1

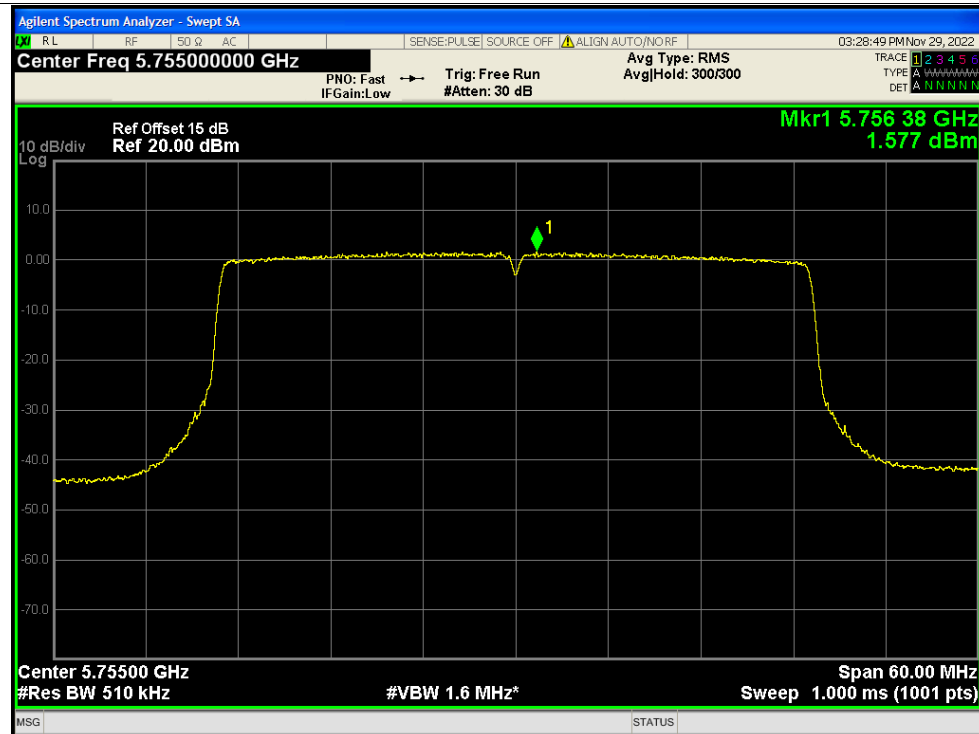


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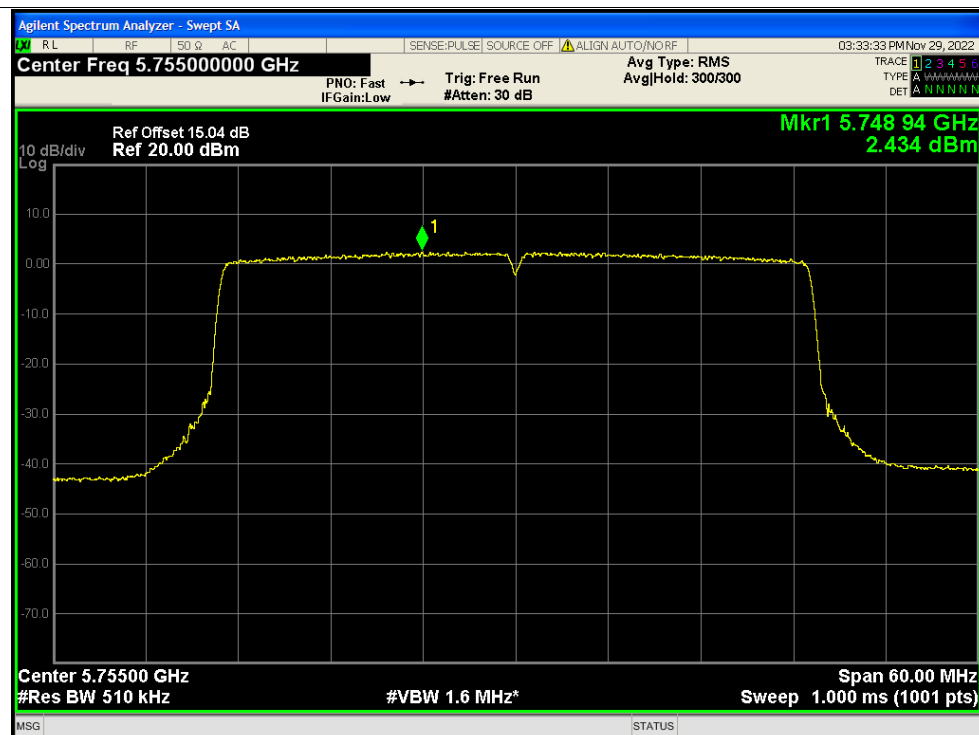




PSD NVNT ax40 5755MHz Ant3

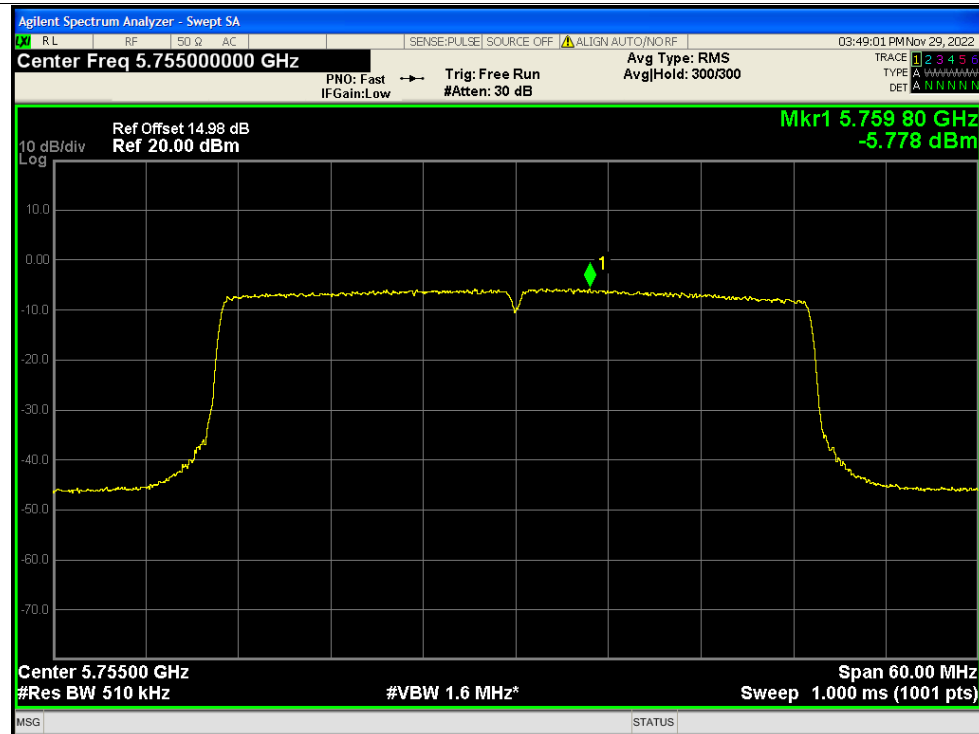


PSD NVNT ax40 5755MHz Ant4

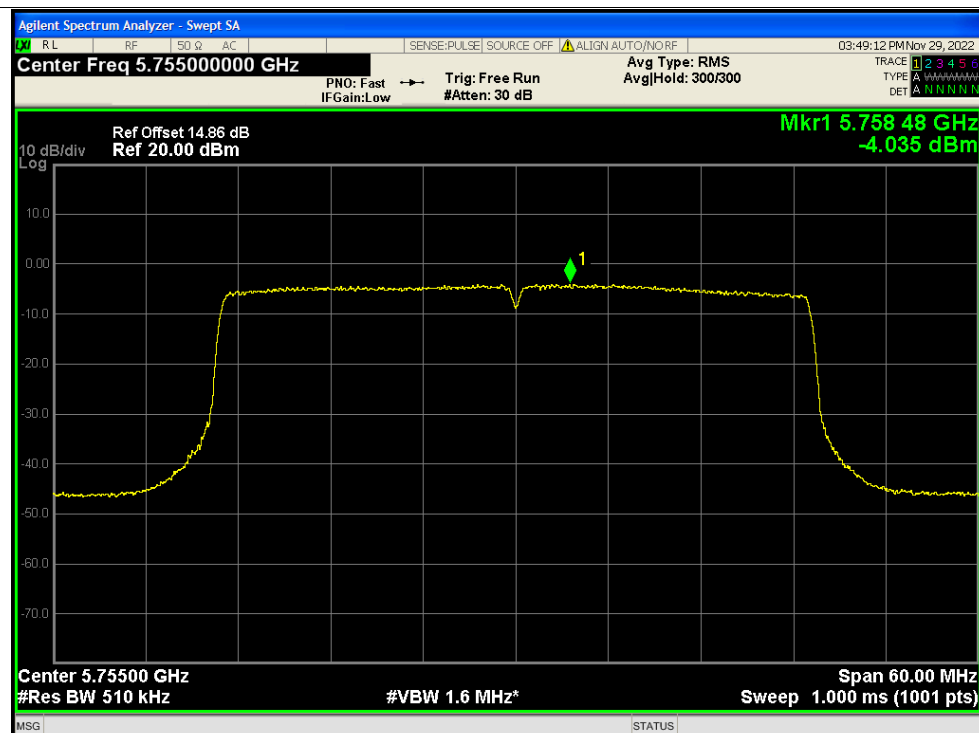




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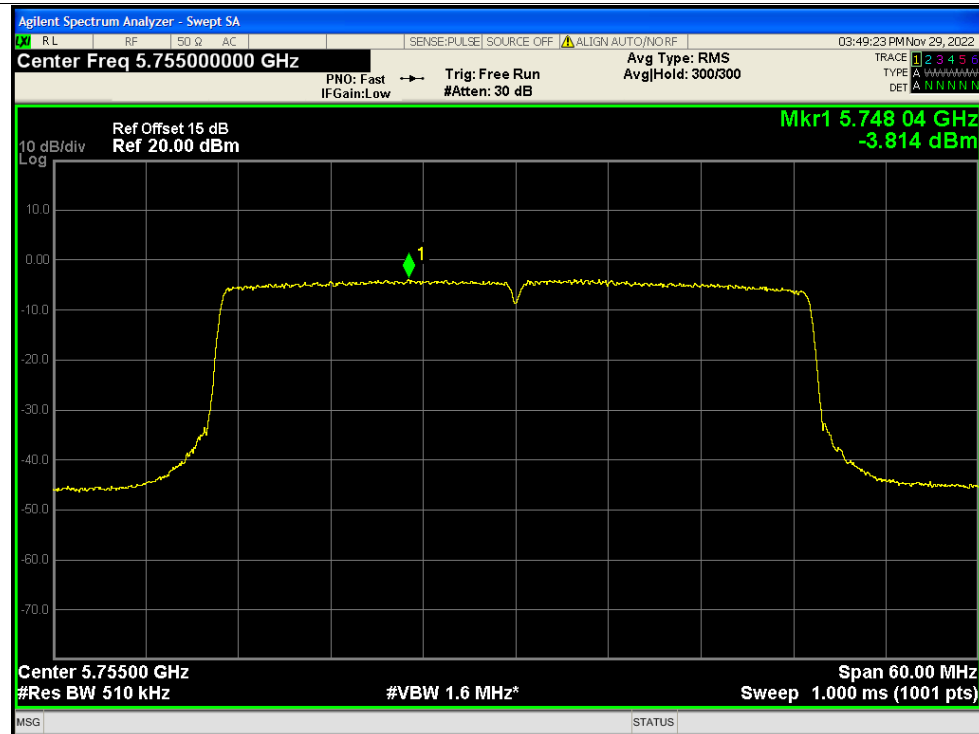


PSD NVNT ax40 5755MHz Ant2

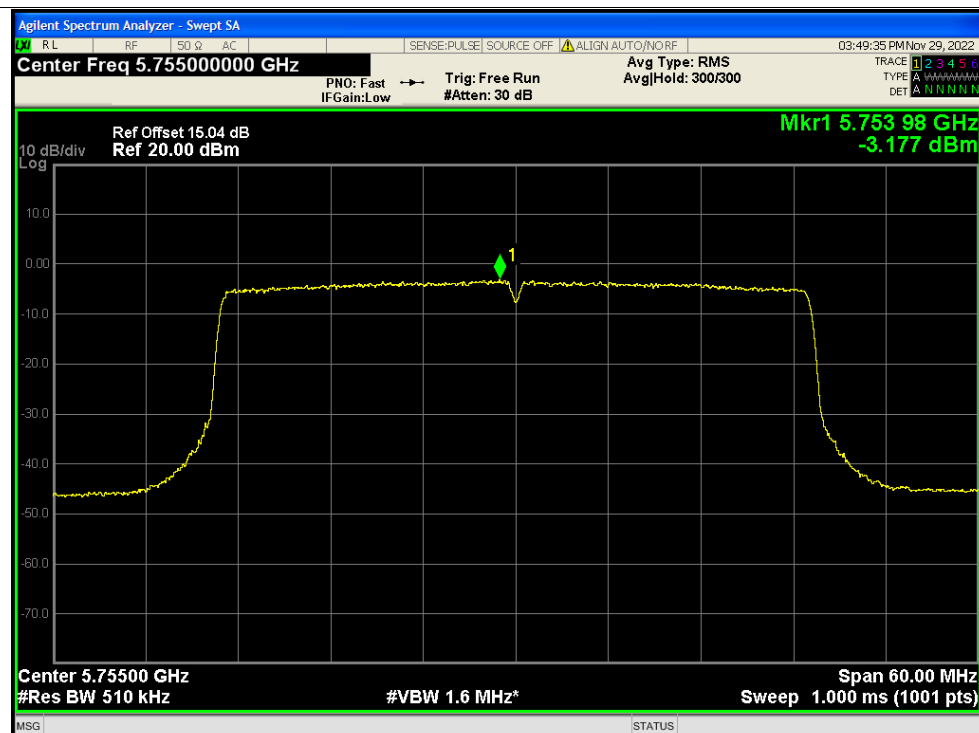




PSD NVNT ax40 5755MHz Ant3

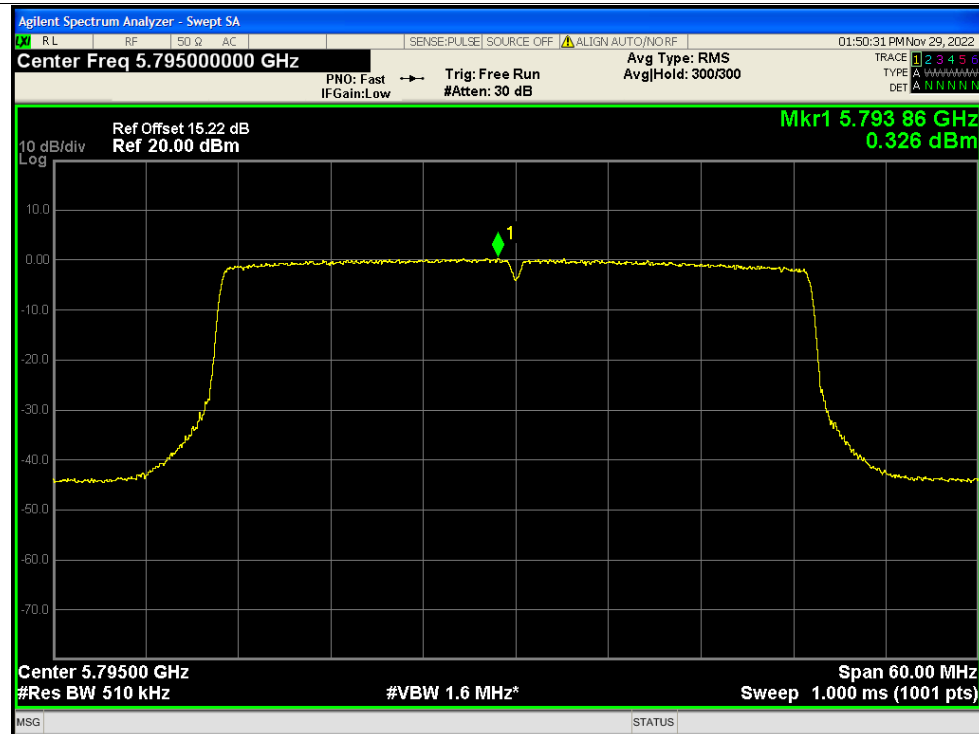


PSD NVNT ax40 5755MHz Ant4

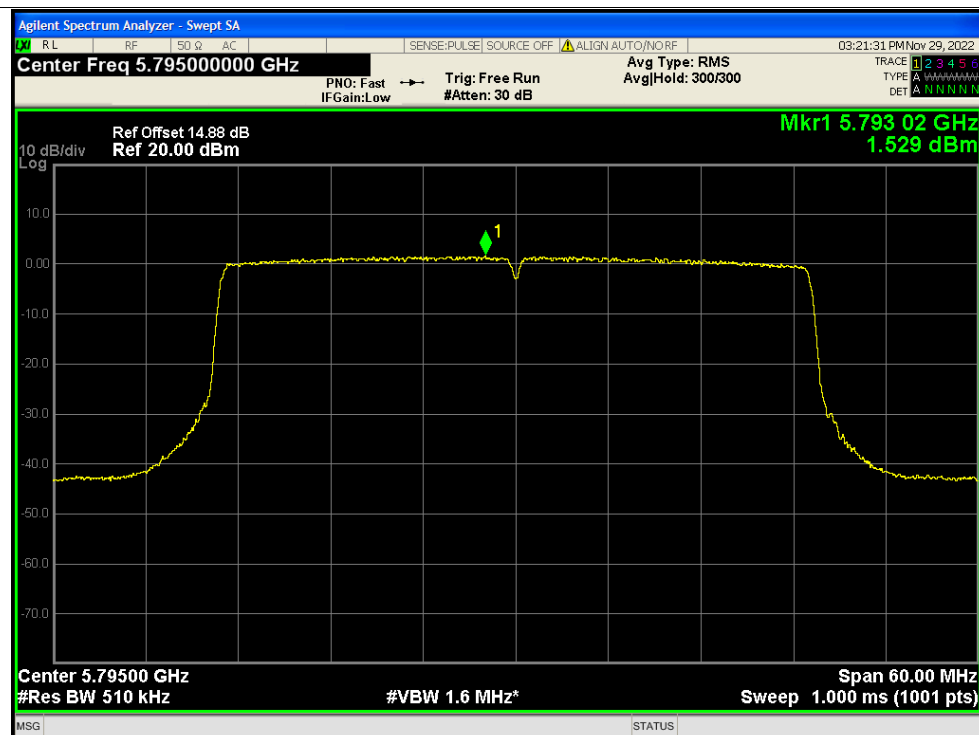




PSD NVNT ax40 5795MHz Ant1

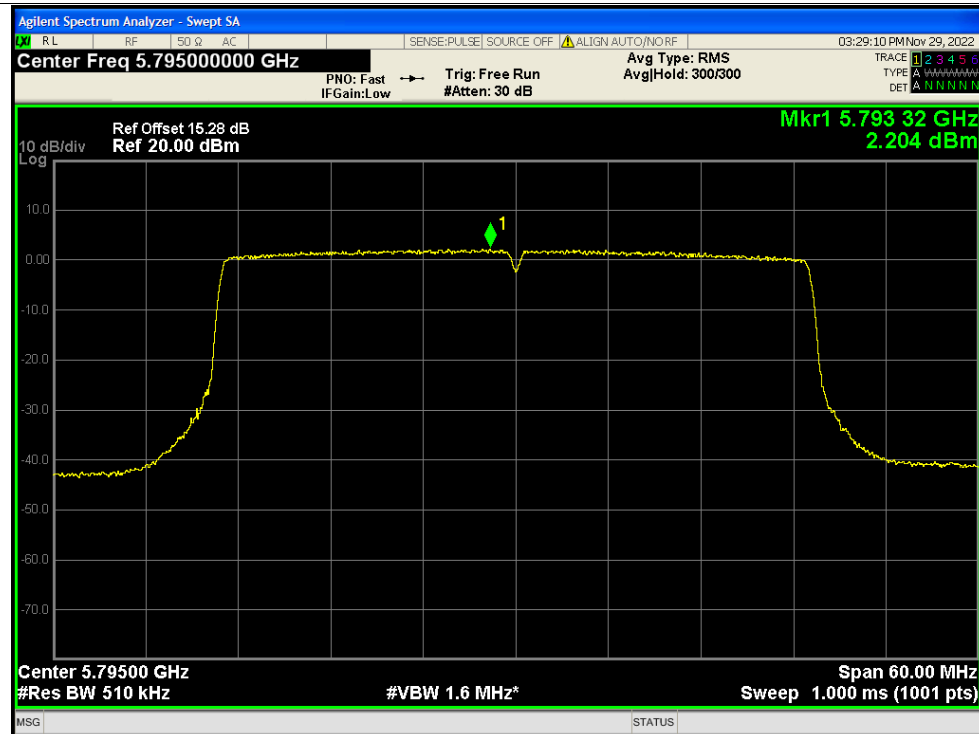


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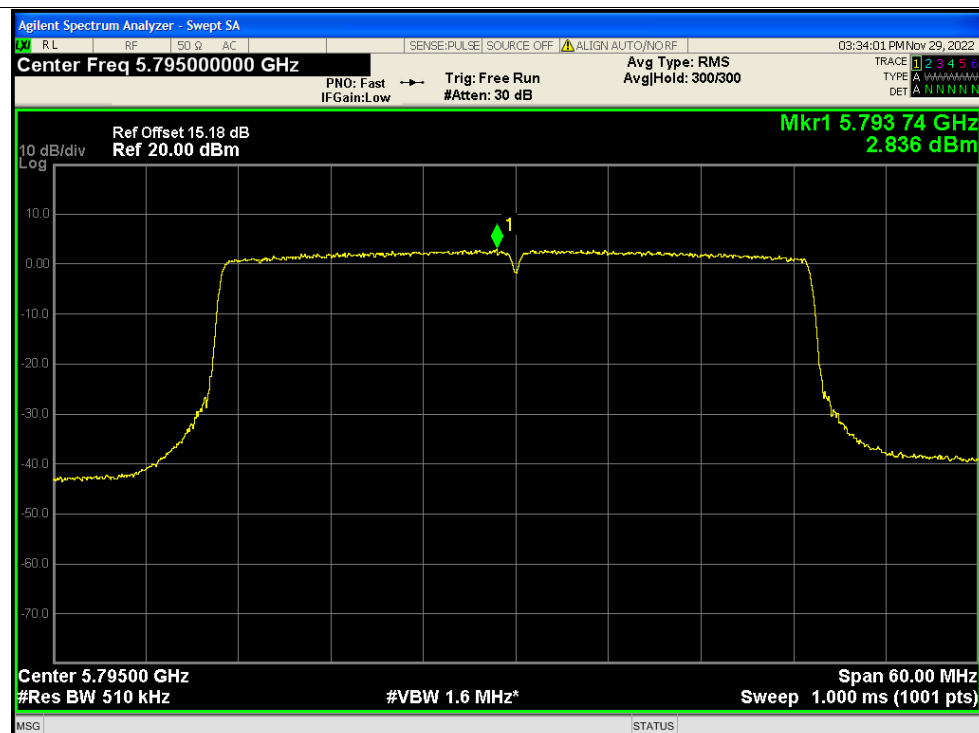




PSD NVNT ax40 5795MHz Ant3

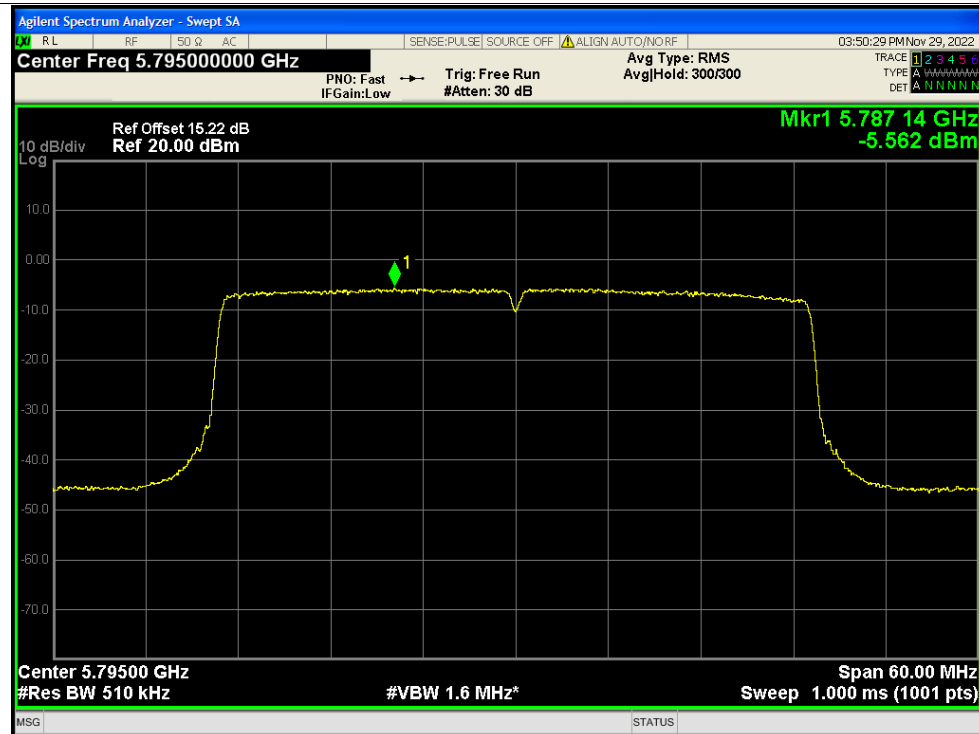


PSD NVNT ax40 5795MHz Ant4

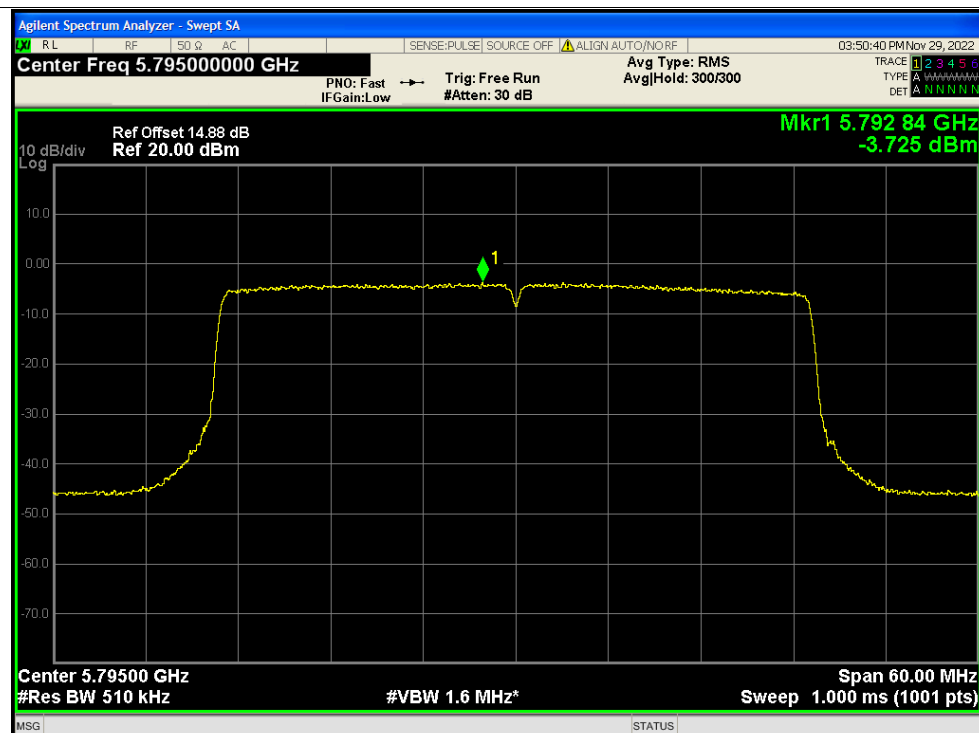




PSD NVNT ax40 5795MHz Ant1

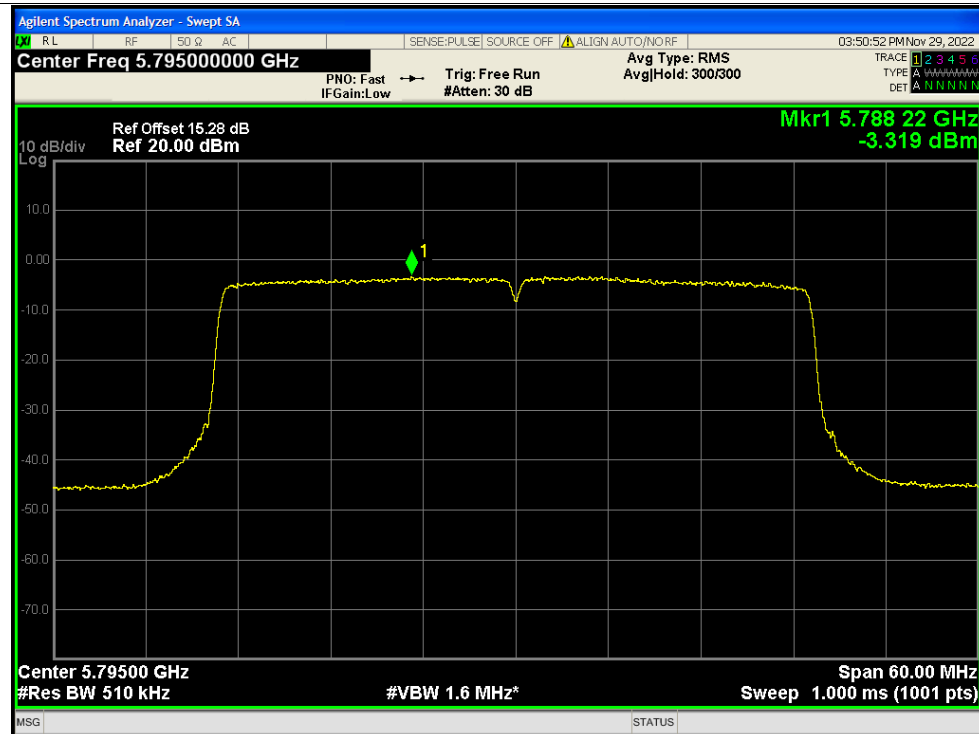


PSD NVNT ax40 5795MHz Ant2

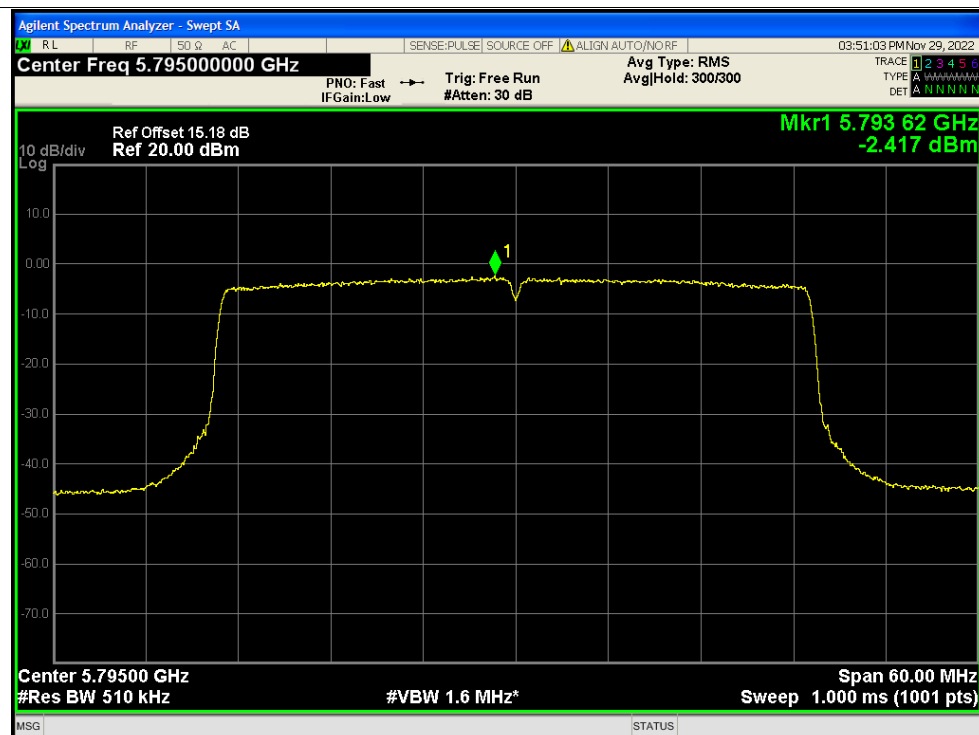




PSD NVNT ax40 5795MHz Ant3

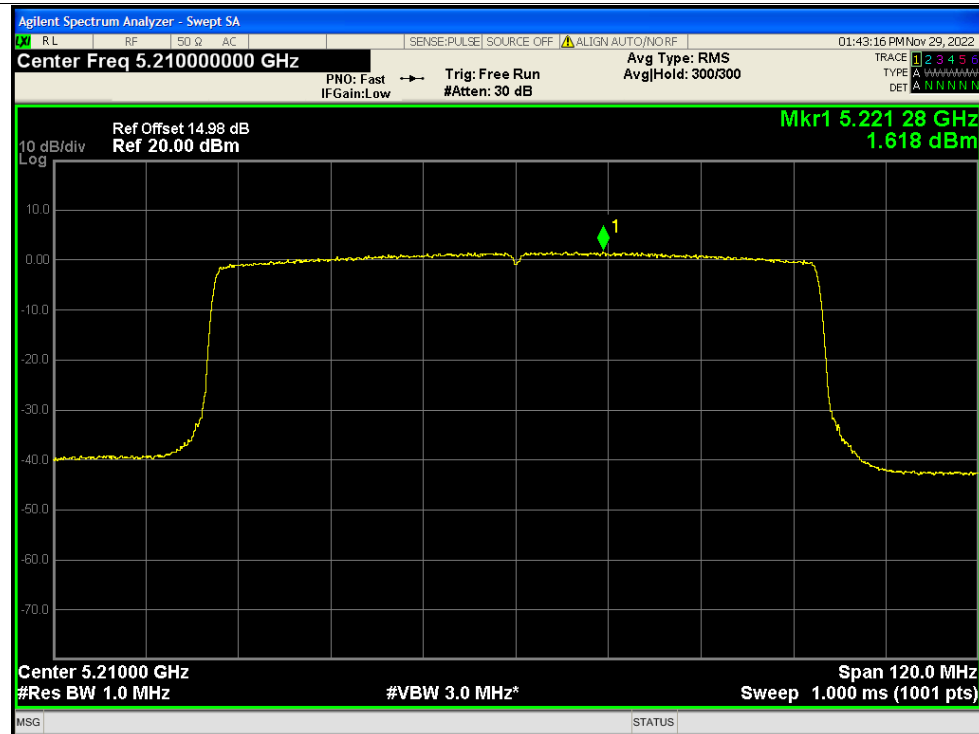


PSD NVNT ax40 5795MHz Ant4

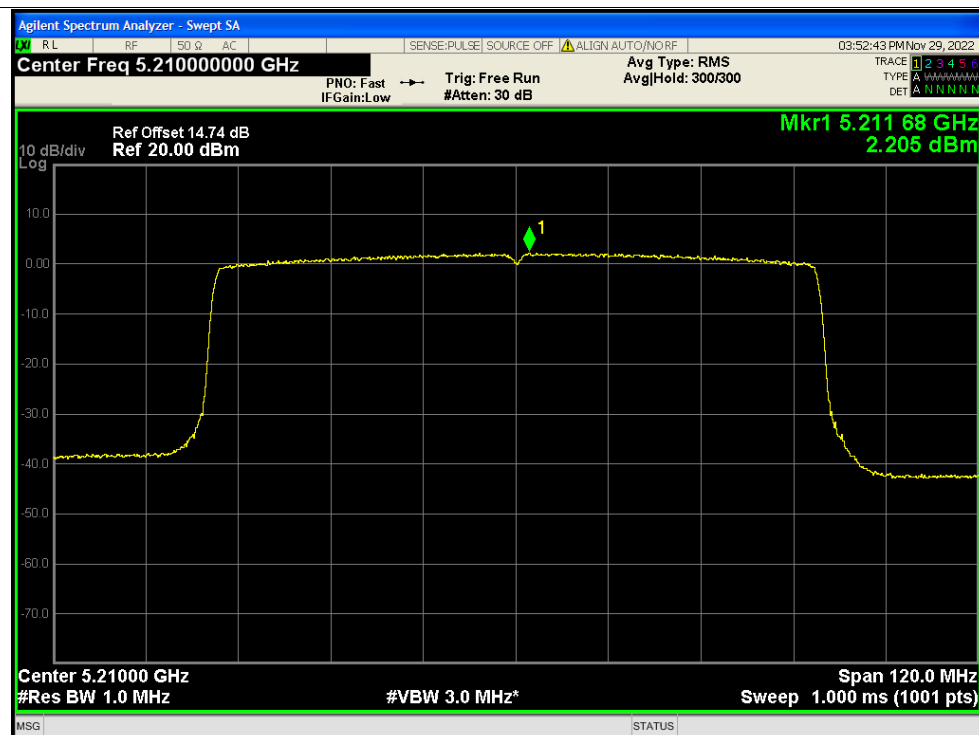




PSD NVNT ax80 5210MHz Ant1

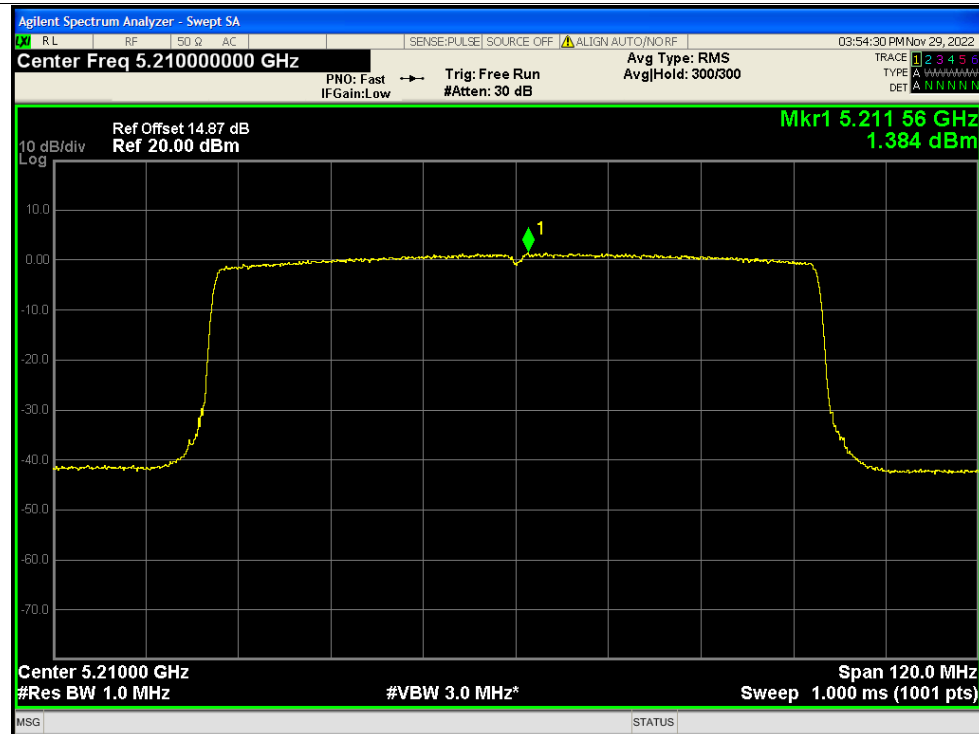


PSD NVNT ax80 5210MHz Ant2

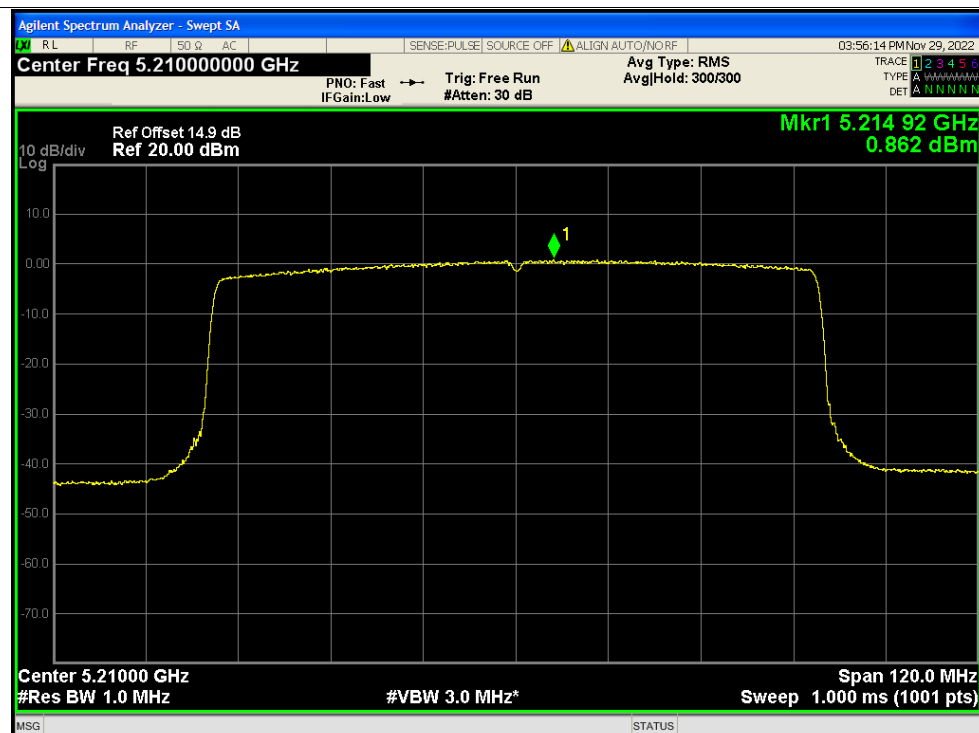




PSD NVNT ax80 5210MHz Ant3

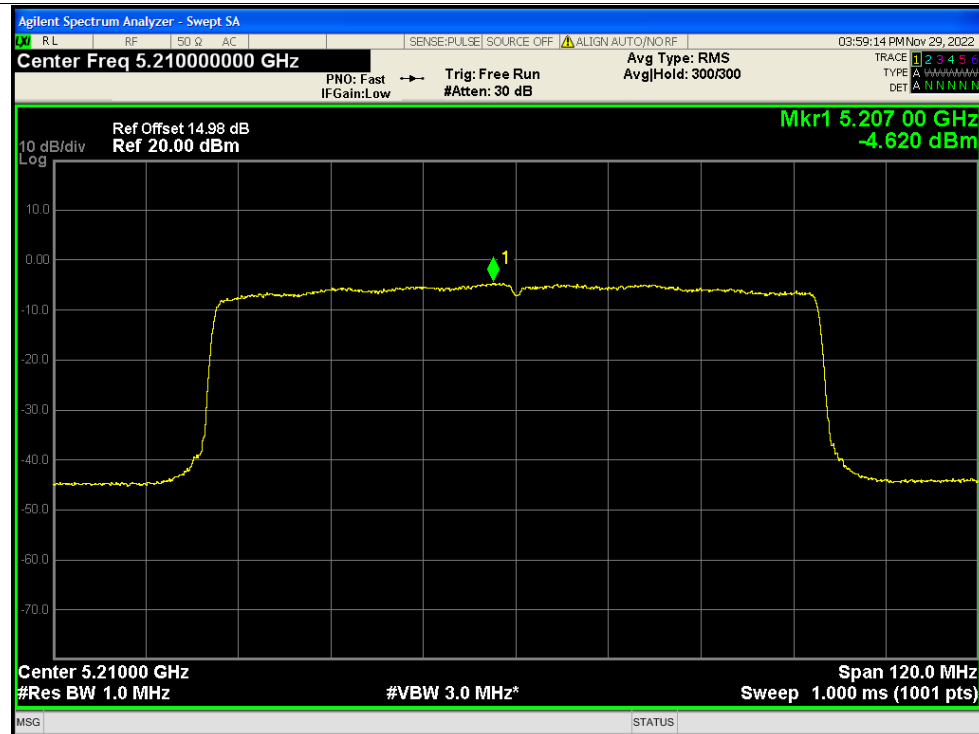


PSD NVNT ax80 5210MHz Ant4

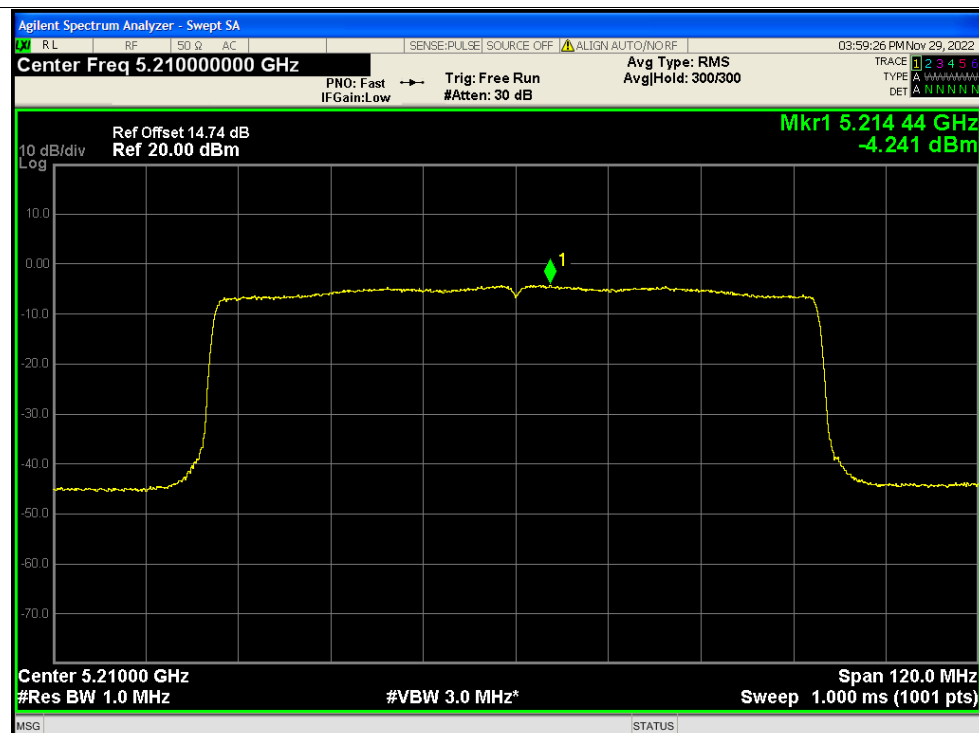




PSD NVNT ax80 5210MHz Ant1

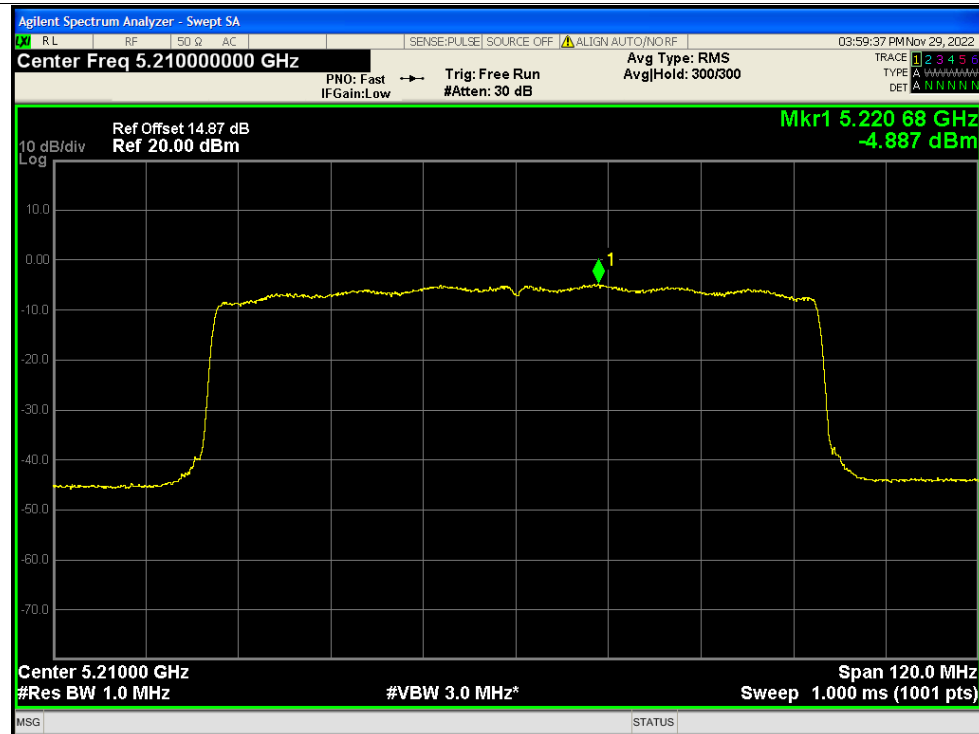


PSD NVNT ax80 5210MHz Ant2

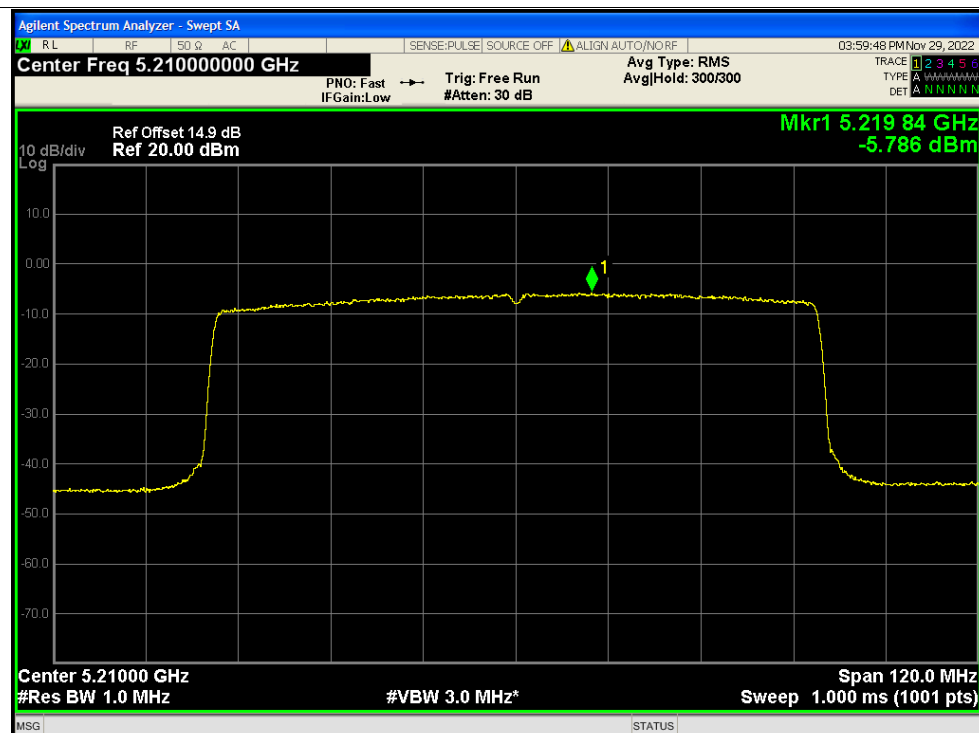




PSD NVNT ax80 5210MHz Ant3

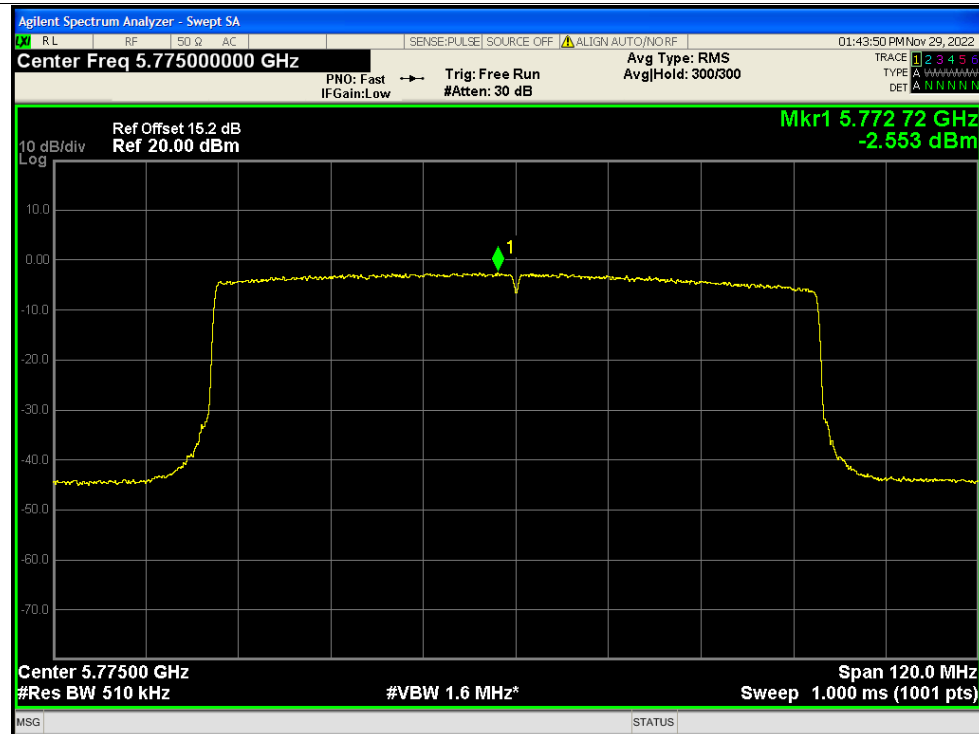


PSD NVNT ax80 5210MHz Ant4

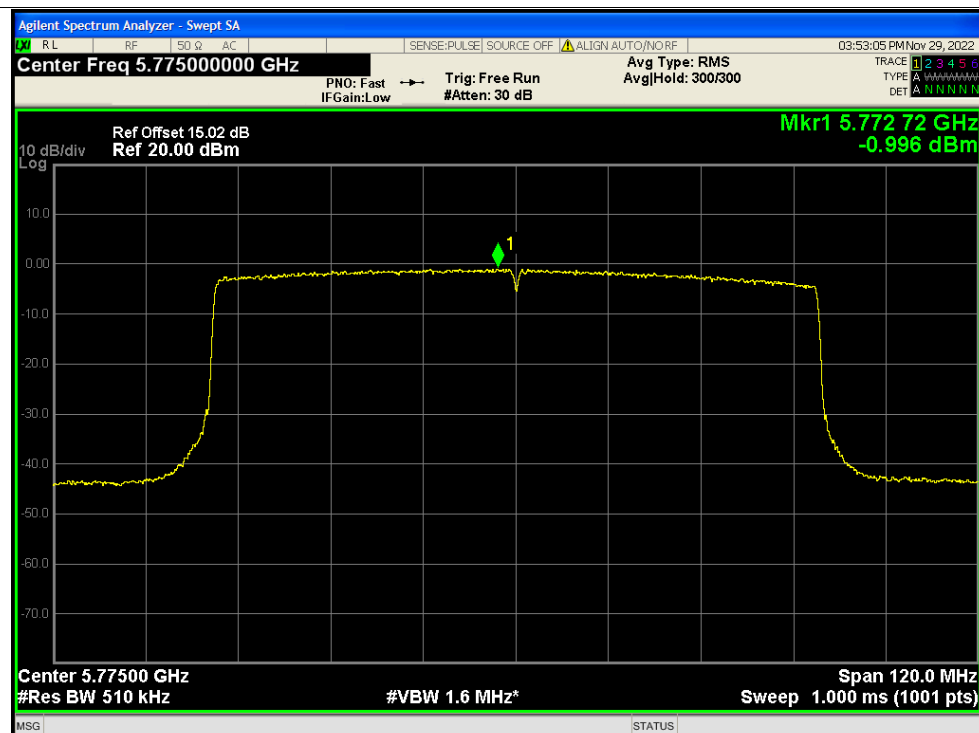




PSD NVNT ax80 5775MHz Ant1

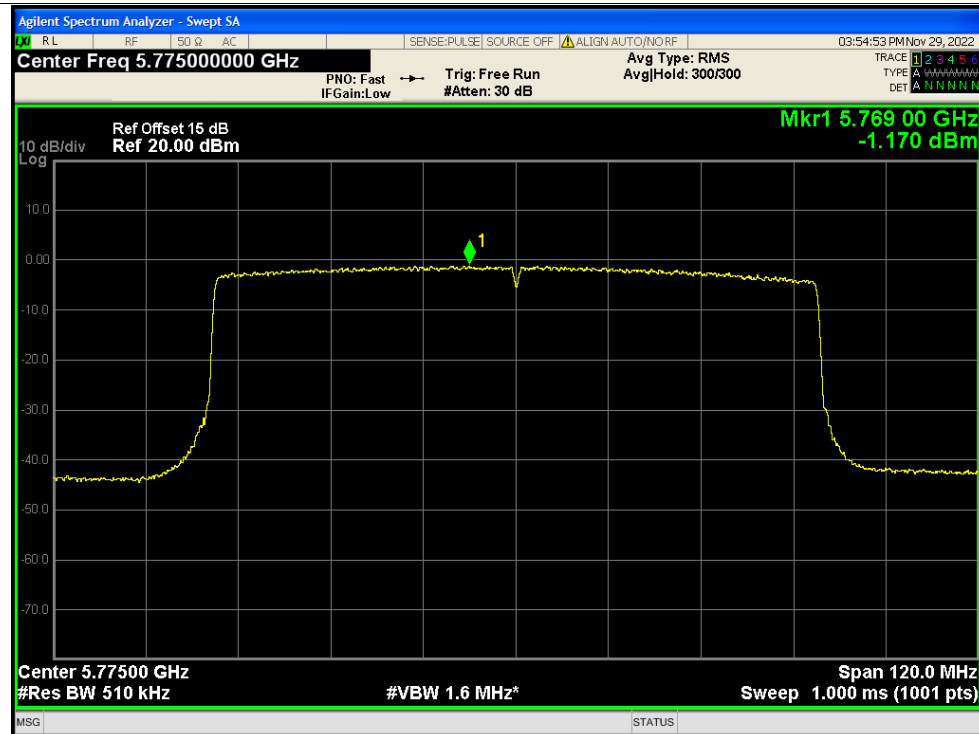


PSD NVNT ax80 5775MHz Ant2

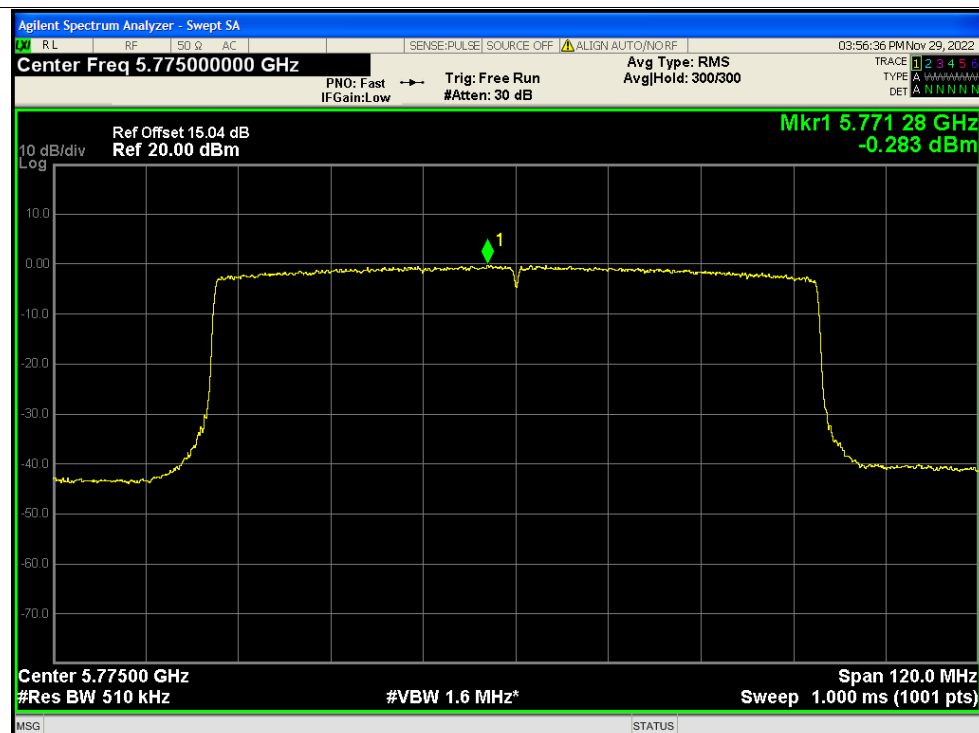




PSD NVNT ax80 5775MHz Ant3

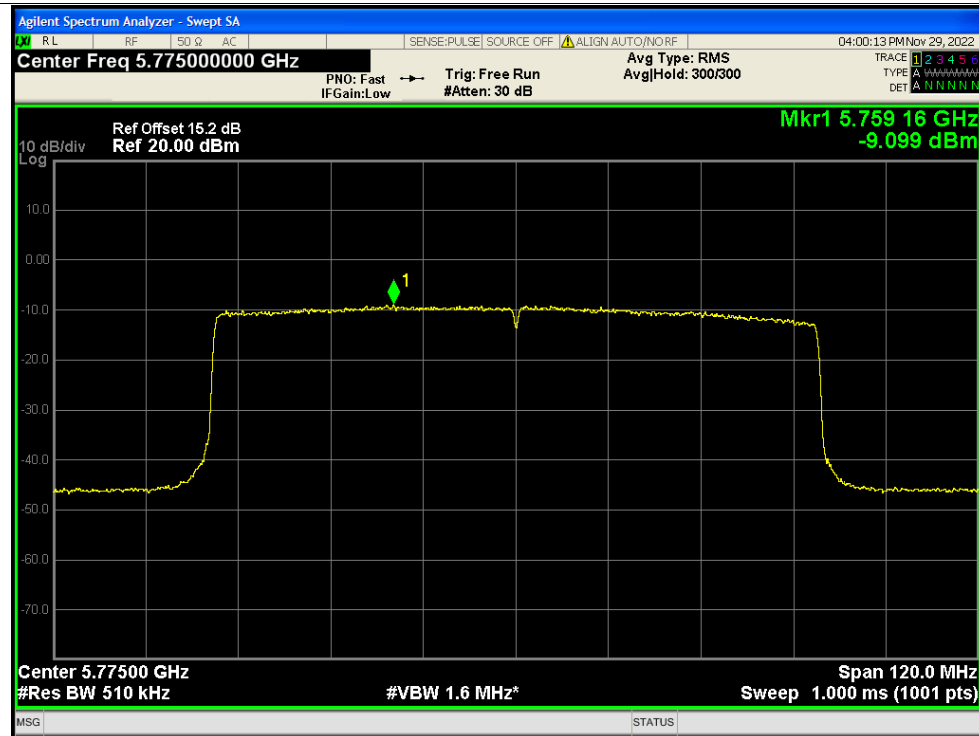


PSD NVNT ax80 5775MHz Ant4

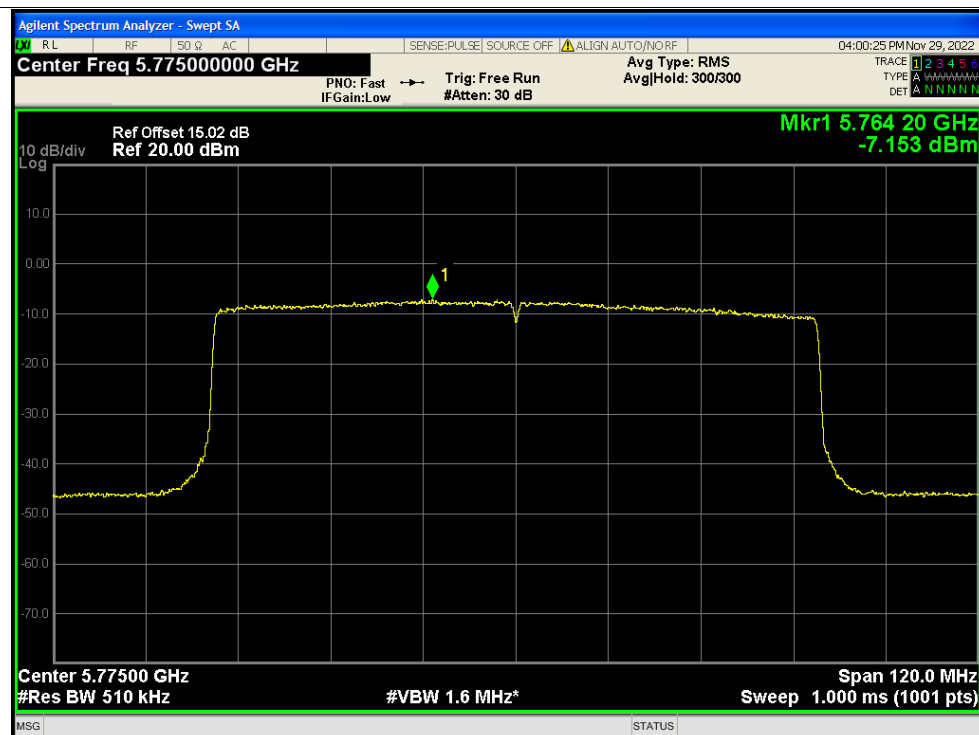




PSD NVNT ax80 5775MHz Ant1

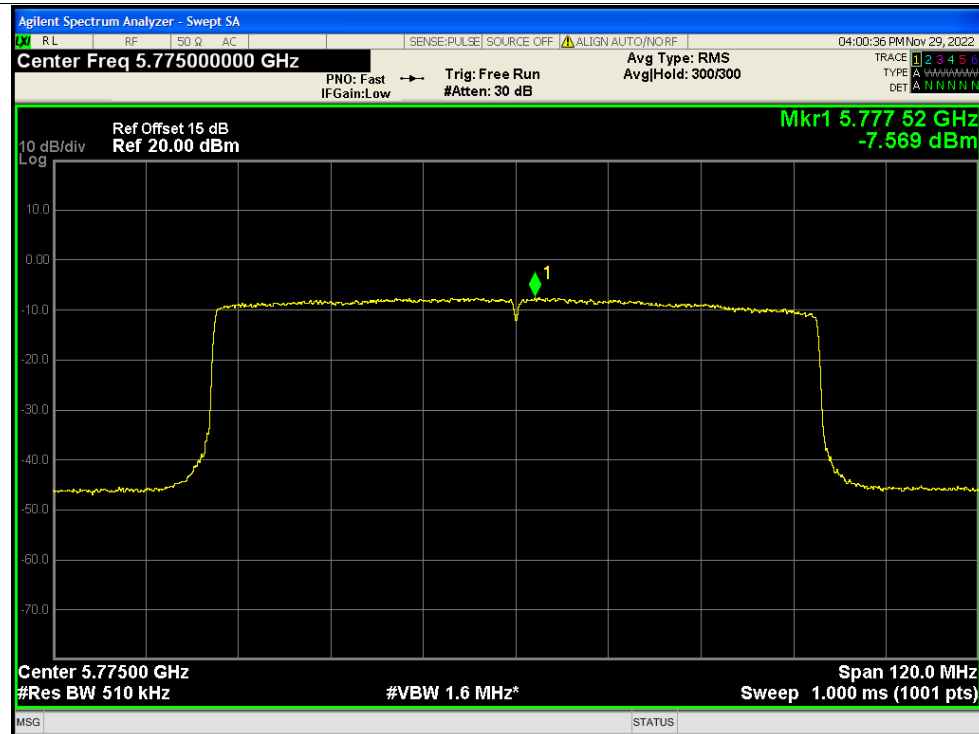


PSD NVNT ax80 5775MHz Ant2

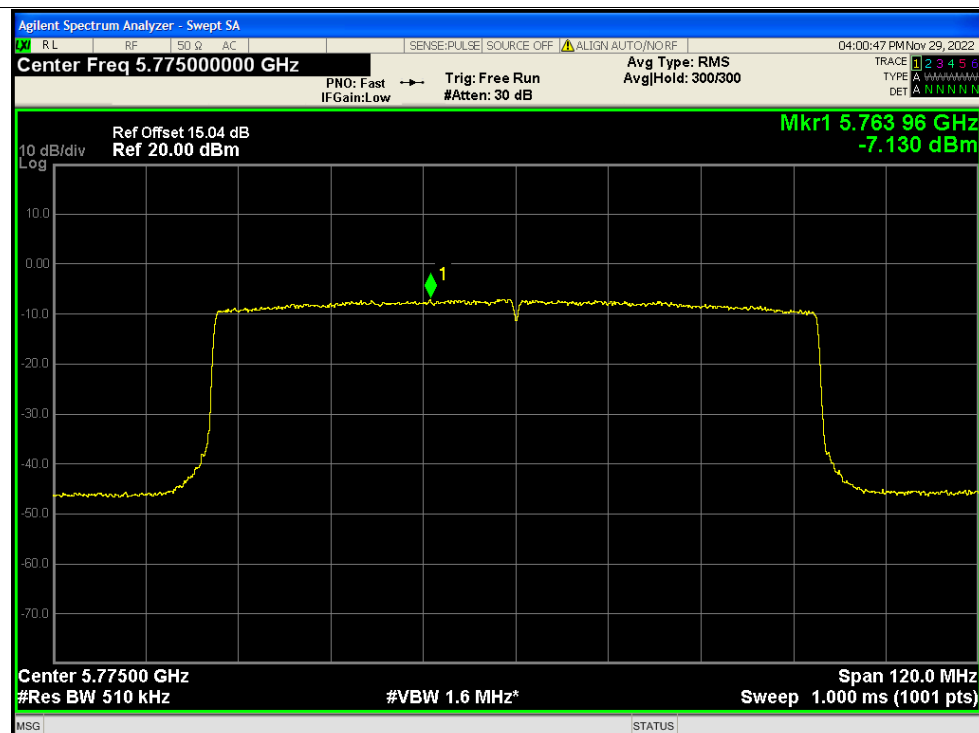




PSD NVNT ax80 5775MHz Ant3



PSD NVNT ax80 5775MHz Ant4



**A.5. Frequency Stability**

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
20°C 10.2V	a	5180	Ant1	5179.994	-6000	-1.16	25	Pass
20°C 13.8V	a	5180	Ant1	5179.994	-6000	-1.16	25	Pass
-30°C 12V	a	5180	Ant1	5179.994	-6000	-1.16	25	Pass
-20°C 12V	a	5180	Ant1	5179.994	-6000	-1.16	25	Pass
-10°C 12V	a	5180	Ant1	5179.994	-6000	-1.16	25	Pass
0°C 12V	a	5180	Ant1	5179.993	-7000	-1.35	25	Pass
10°C 12V	a	5180	Ant1	5179.993	-7000	-1.35	25	Pass
20°C 12V	a	5180	Ant1	5179.993	-7000	-1.35	25	Pass
30°C 12V	a	5180	Ant1	5179.993	-7000	-1.35	25	Pass
40°C 12V	a	5180	Ant1	5179.993	-7000	-1.35	25	Pass
50°C 12V	a	5180	Ant1	5179.992	-8000	-1.54	25	Pass
20°C 10.2V	a	5745	Ant1	5744.987	-13000	-2.26	25	Pass
20°C 13.8V	a	5745	Ant1	5744.987	-13000	-2.26	25	Pass
-30°C 12V	a	5745	Ant1	5744.987	-13000	-2.26	25	Pass
-20°C 12V	a	5745	Ant1	5744.987	-13000	-2.26	25	Pass
-10°C 12V	a	5745	Ant1	5744.987	-13000	-2.26	25	Pass
0°C 12V	a	5745	Ant1	5744.987	-13000	-2.26	25	Pass
10°C 12V	a	5745	Ant1	5744.987	-13000	-2.26	25	Pass
20°C 12V	a	5745	Ant1	5744.986	-14000	-2.44	25	Pass
30°C 12V	a	5745	Ant1	5744.986	-14000	-2.44	25	Pass
40°C 12V	a	5745	Ant1	5744.986	-14000	-2.44	25	Pass
50°C 12V	a	5745	Ant1	5744.986	-14000	-2.44	25	Pass



A.6. 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 +WIFI TX

Test voltage: AC 120V/60Hz

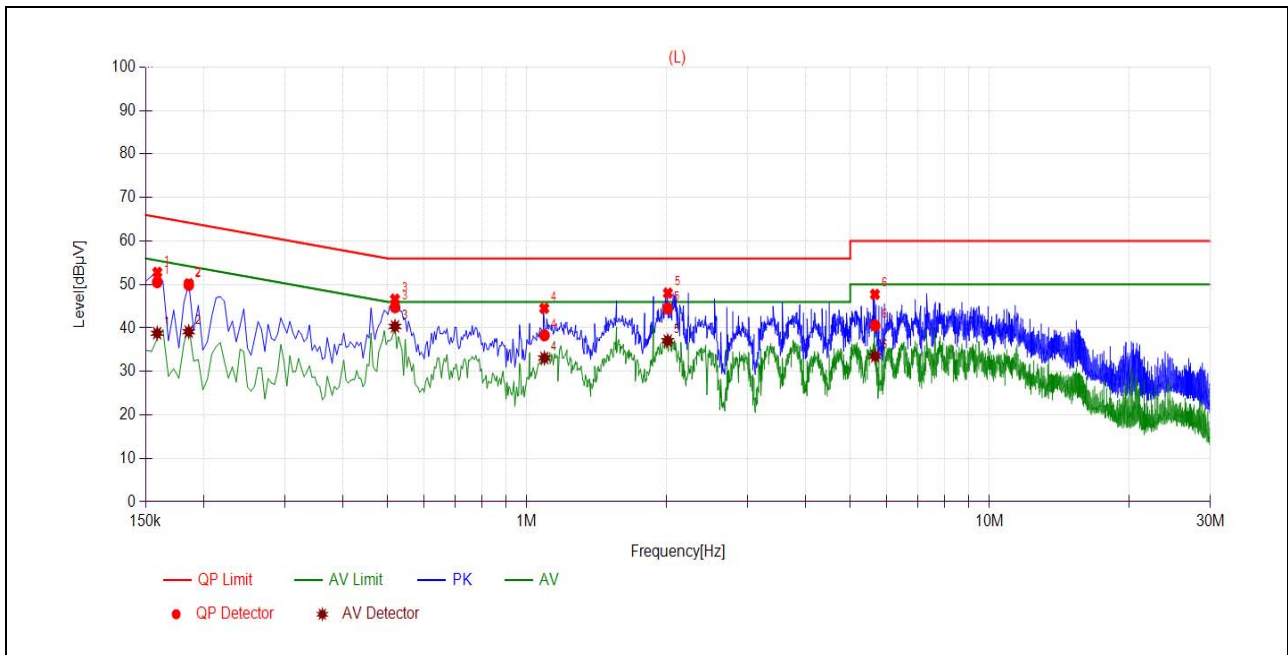
The measurement results are obtained as below:

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

U_R : Receiver Reading

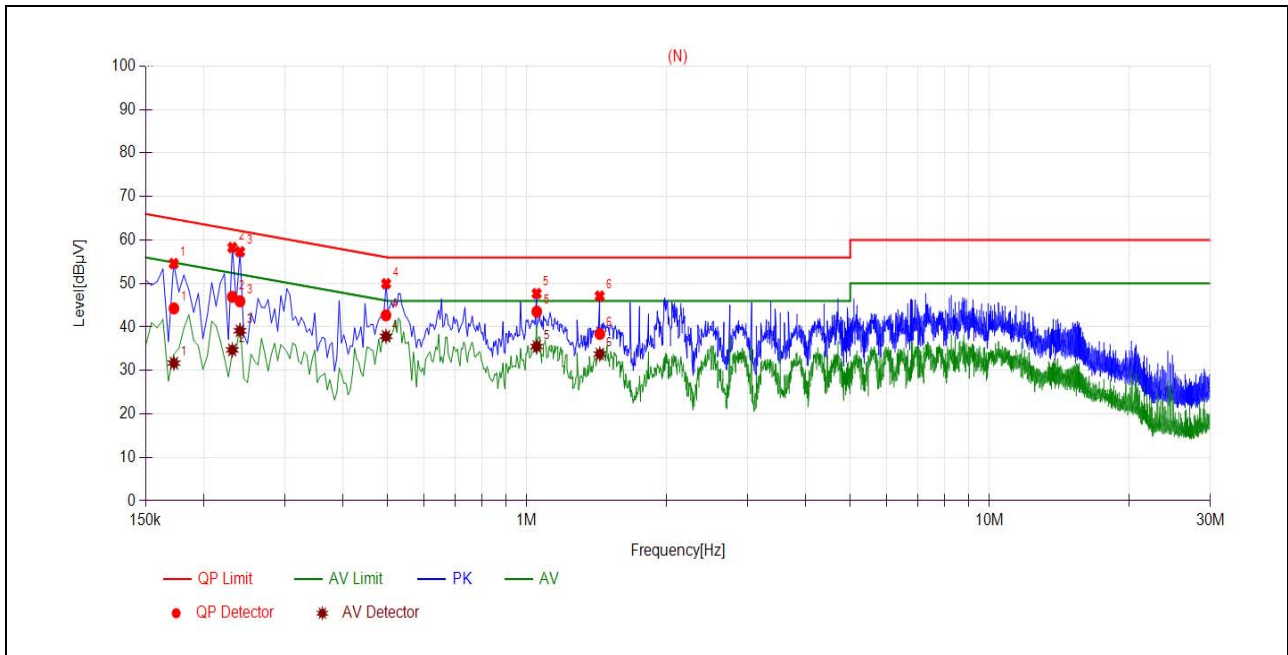
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1589	50.53	38.78	65.52	55.52	Line	PASS
2	0.1859	49.90	39.14	64.22	54.22		PASS
3	0.5189	44.76	40.36	56.00	46.00		PASS
4	1.0913	38.30	33.08	56.00	46.00		PASS
5	2.0158	44.46	37.05	56.00	46.00		PASS
6	5.6573	40.55	33.49	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	0.1727	44.27	31.67	64.83	54.83	Neutral	PASS
2	0.2309	46.94	34.70	62.42	52.42		PASS
3	0.2399	45.90	39.12	62.10	52.10		PASS
4	0.4961	42.67	37.84	56.07	46.07		PASS
5	1.0505	43.53	35.50	56.00	46.00		PASS
6	1.4375	38.41	33.75	56.00	46.00		PASS



A.7. 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

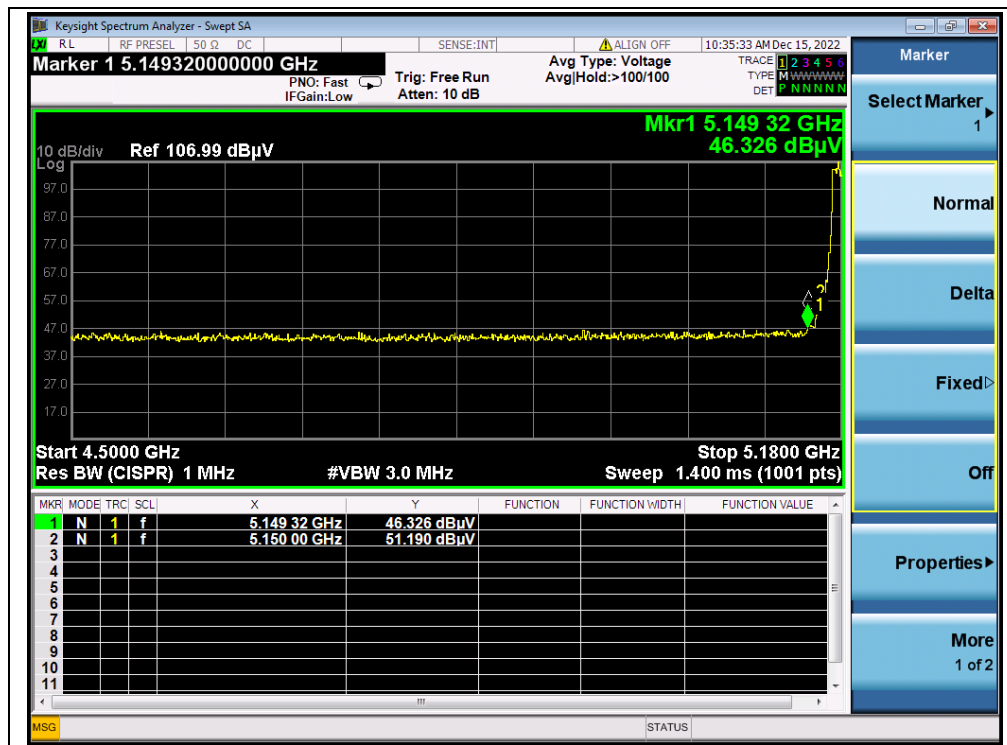
A_{Factor} : Antenna Factor at 3m

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.

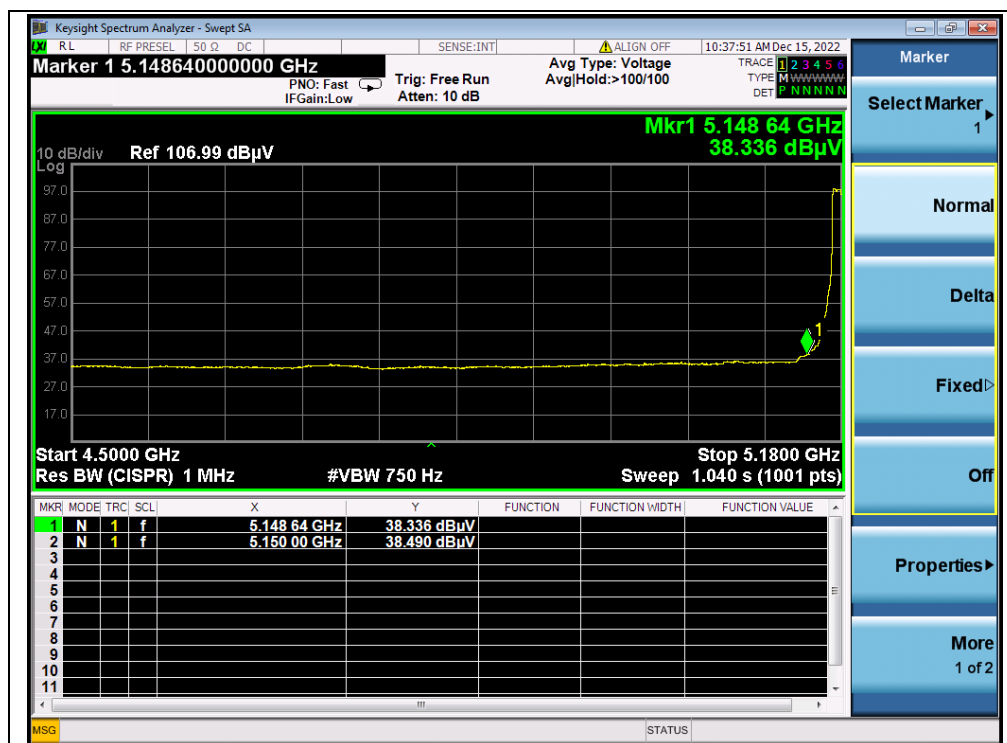
Note 2 All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.

802.11a Mode

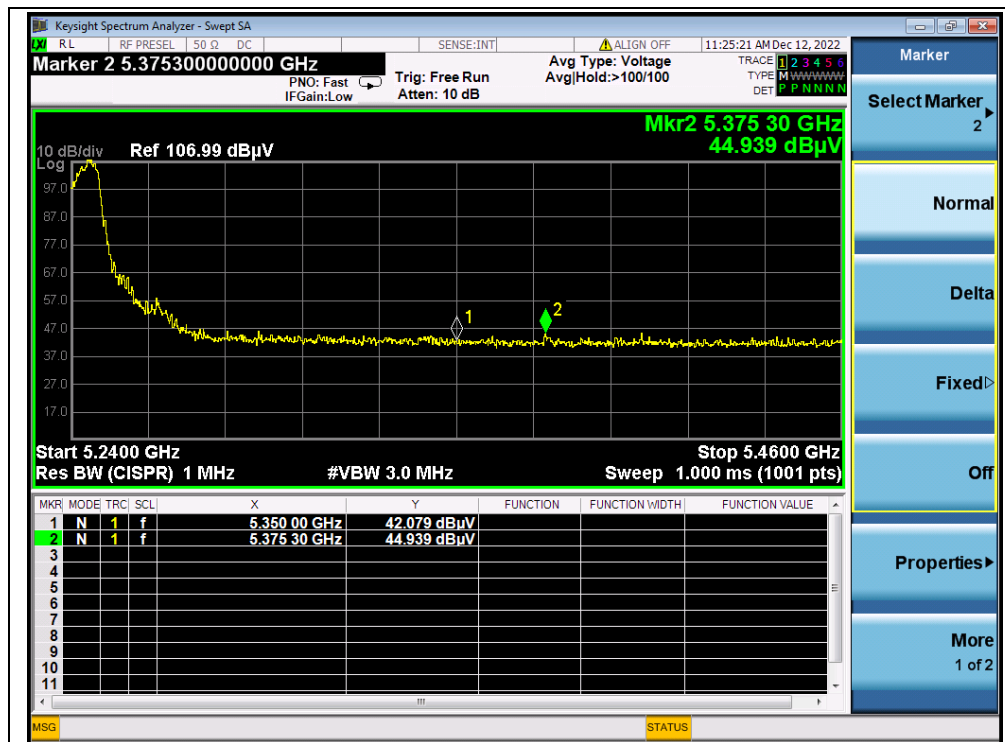
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@ 3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/ m)	Verdict
		PK/ AV						
36	5150.00	PK	51.19	-19.54	32.20	63.85	74	PASS
36	5150.00	AV	38.49	-19.54	32.20	51.15	54	PASS
48	5375.30	PK	44.94	-19.54	32.20	57.60	74	PASS
48	5436.90	AV	34.47	-19.54	32.20	47.13	54	PASS
149	5725.00	PK	53.55	-19.01	32.20	66.74	122.23	PASS
165	5850.00	PK	50.29	-19.01	32.20	63.48	122.23	PASS



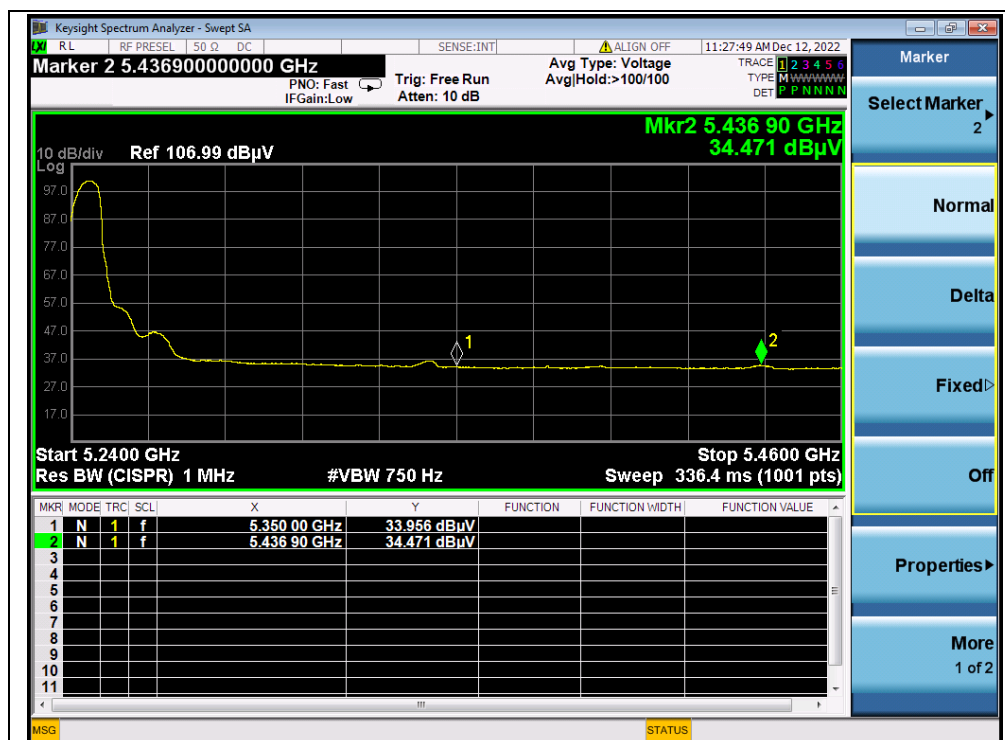
(PEAK, Channel 36, 802.11a)



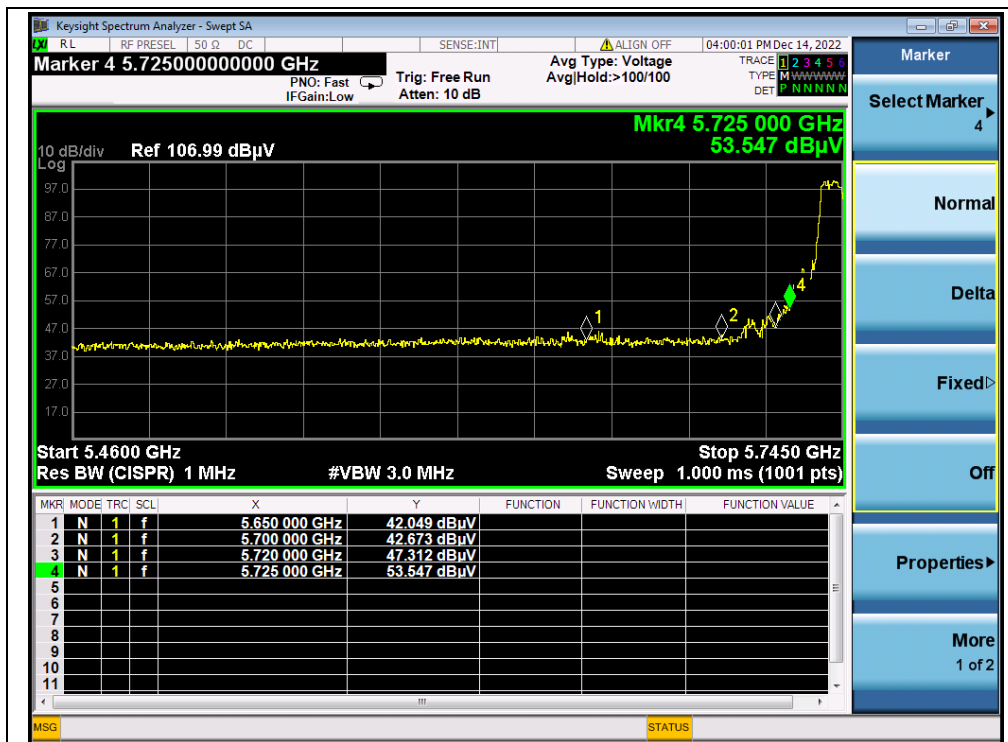
(AVERAGE, Channel 36, 802.11a)



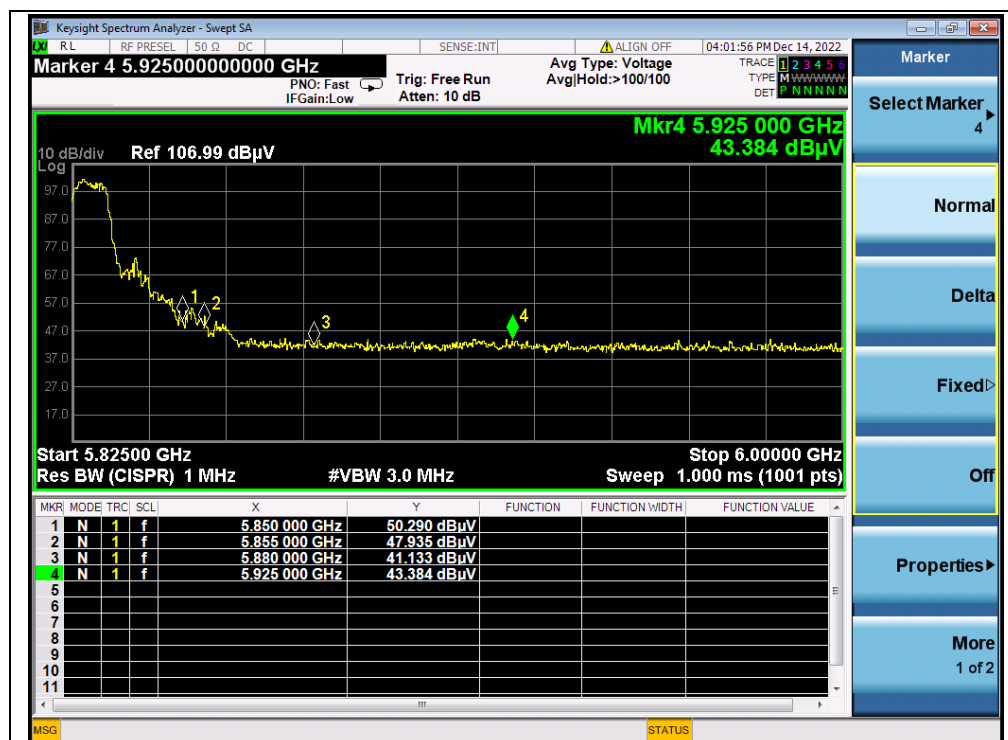
(PEAK, Channel 48, 802.11a)



(AVERAGE, Channel 48, 802.11a)



(PEAK, Channel 149, 802.11a)

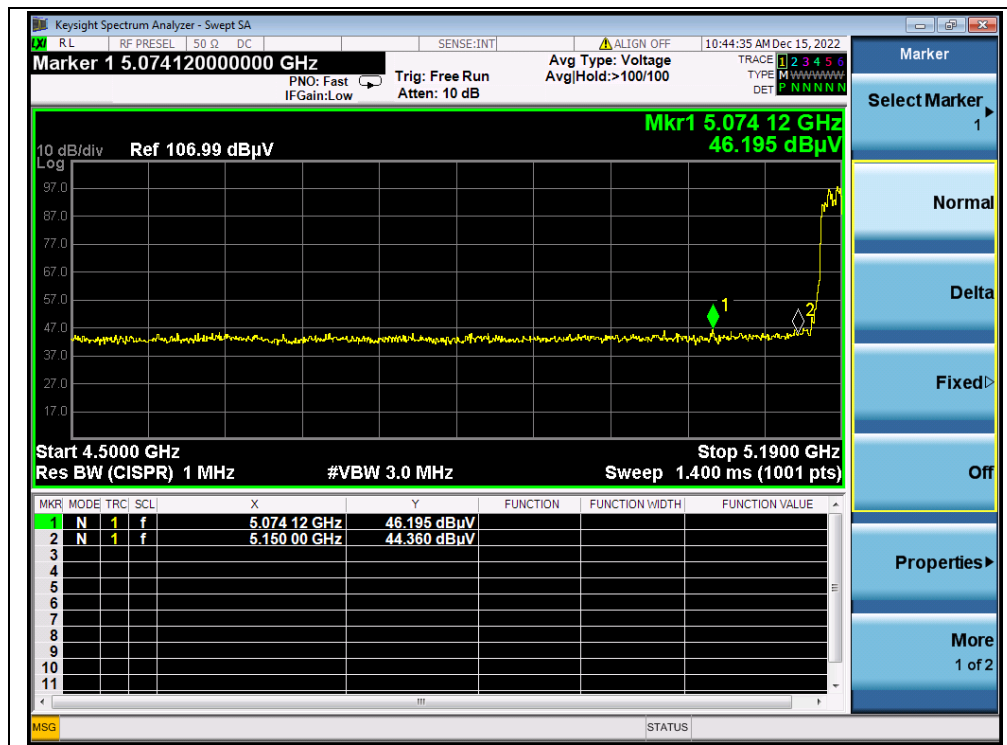


(PEAK, Channel 165, 802.11a)

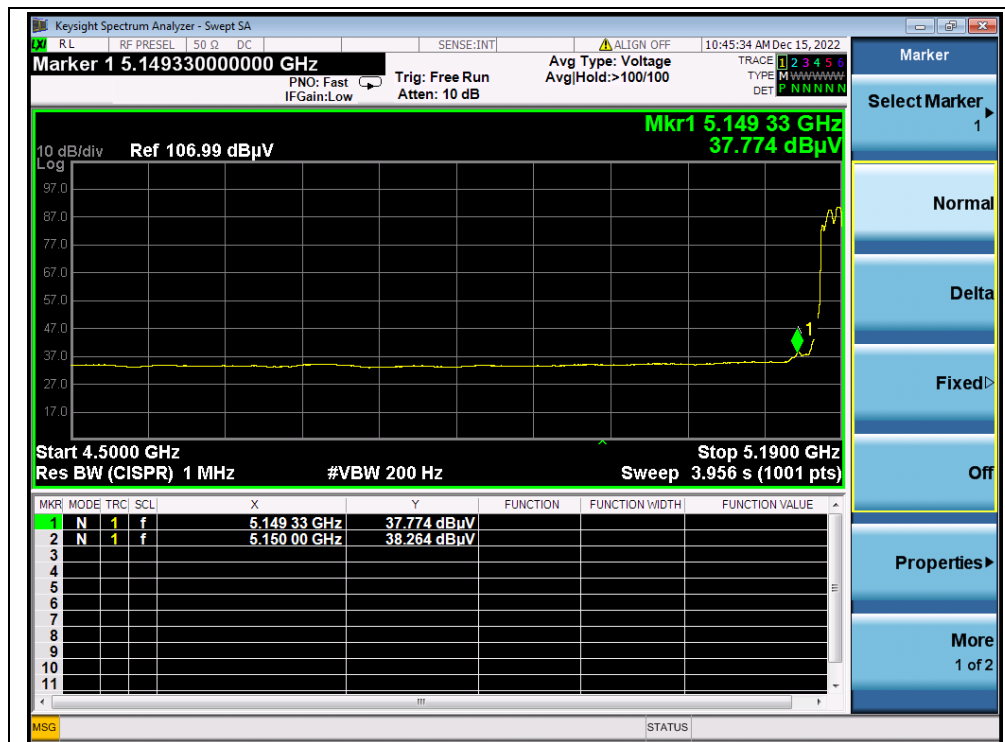


802.11n (HT40) Mode

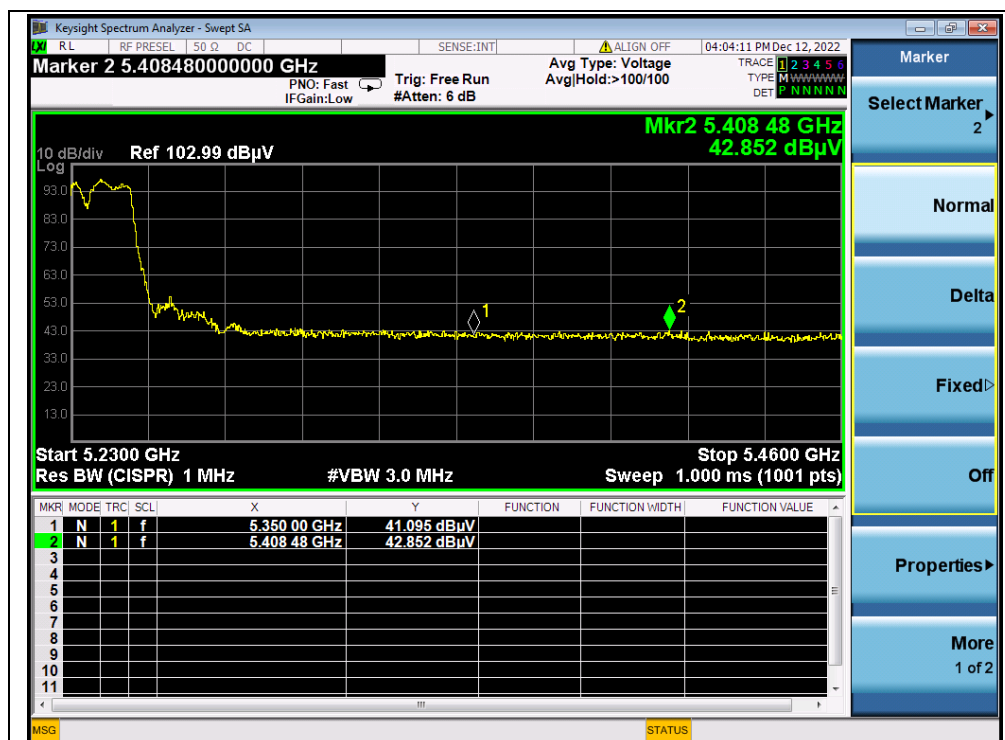
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
38	5074.12	PK	46.20	-19.54	32.20	58.86	74	PASS
38	5150.00	AV	38.26	-19.54	32.20	50.92	54	PASS
46	5408.48	PK	42.85	-19.54	32.20	55.51	74	PASS
46	5352.13	AV	32.38	-19.54	32.20	45.04	54	PASS
151	5725.00	PK	47.49	-19.01	32.20	60.68	122.23	PASS
159	5880.00	PK	42.57	-19.01	32.20	55.76	101.53	PASS



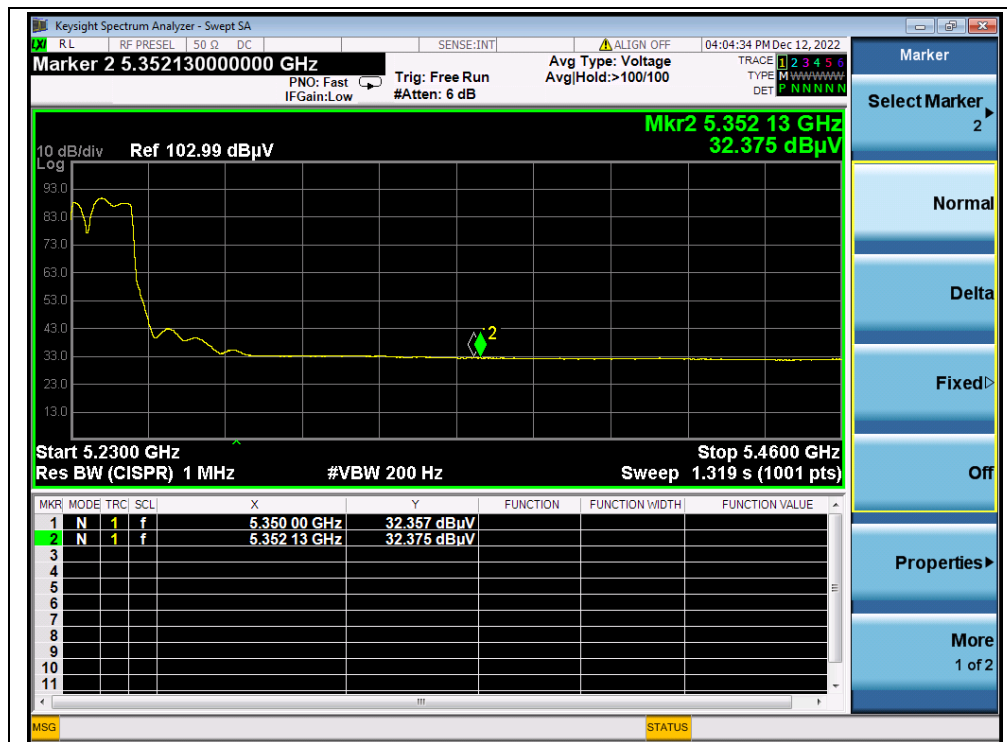
(PEAK, Channel 38, 802.11n (HT40))



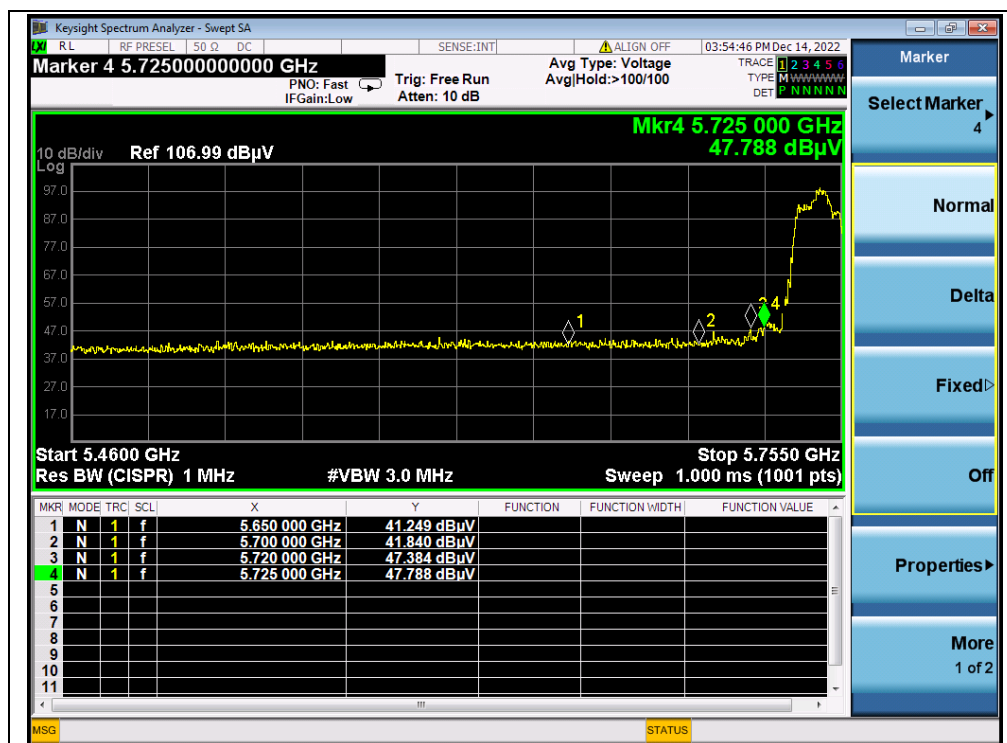
(AVERAGE, Channel 38, 802.11n (HT40))



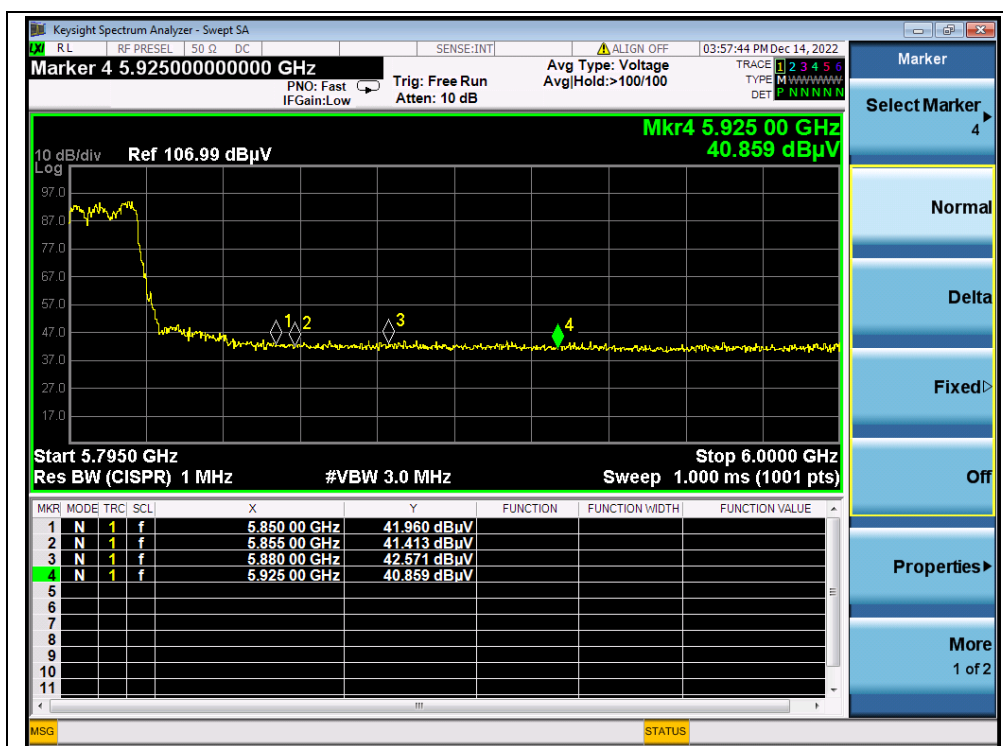
(PEAK, Channel 46, 802.11n (HT40))



(AVERAGE, Channel 46, 802.11n (HT40))



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

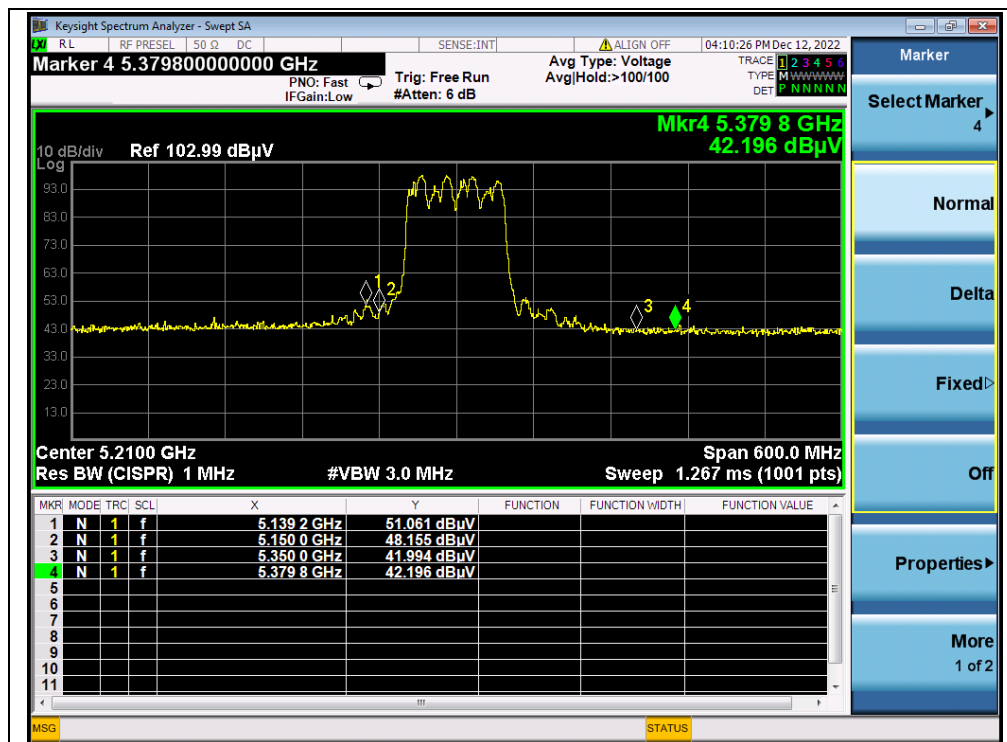


(PEAK, Channel 159, 802.11n (HT40))

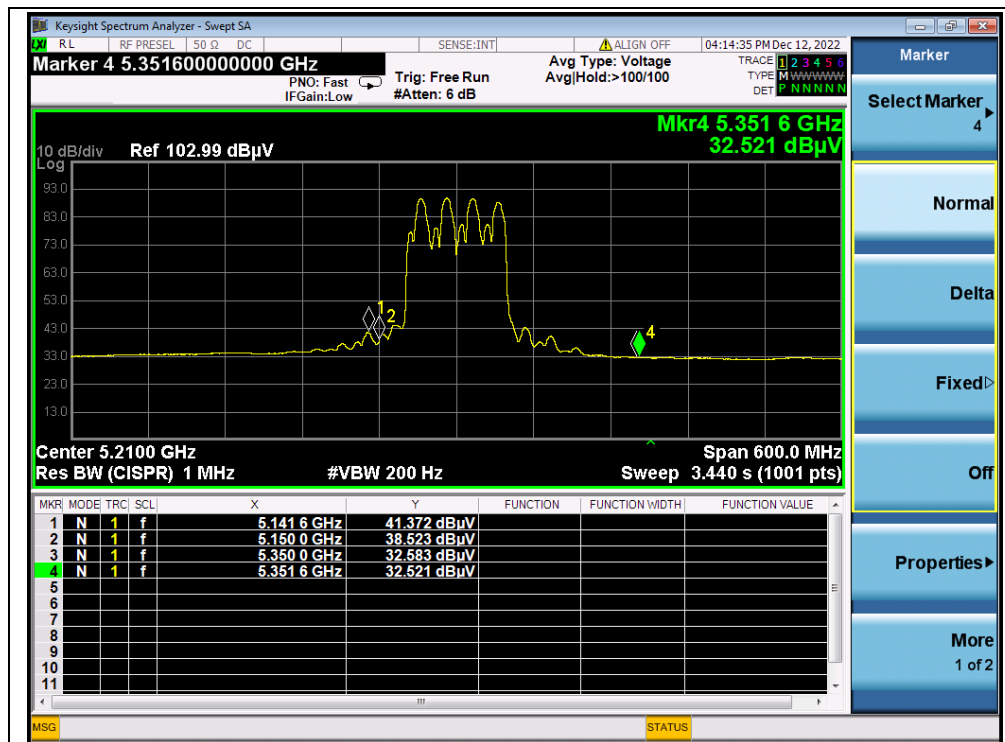


802.11 ac (VHT80) Mode

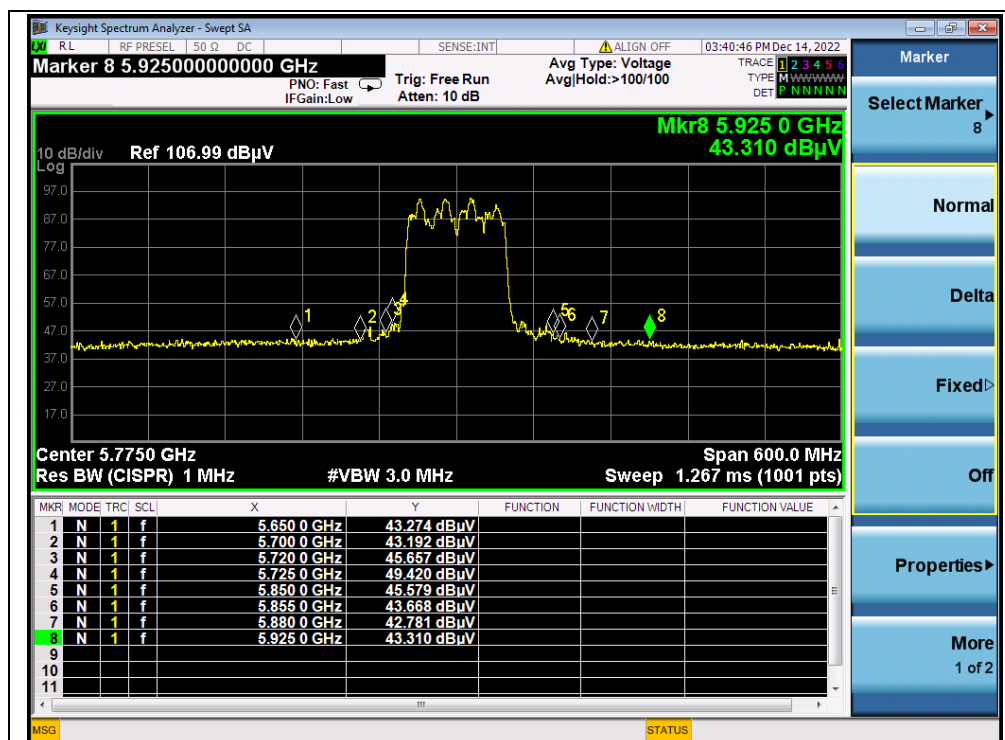
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
42	5139.20	PK	51.06	-19.54	32.20	63.72	74	PASS
42	5141.60	AV	41.37	-19.54	32.20	54.03	54	PASS
42	5379.80	PK	42.20	-19.54	32.20	54.86	74	PASS
42	5350.00	AV	32.58	-19.54	32.20	45.24	54	PASS
155	5725.00	PK	49.42	-19.01	32.20	62.61	122.23	PASS
155	5850.00	PK	45.58	-19.01	32.20	58.77	122.23	PASS



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



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

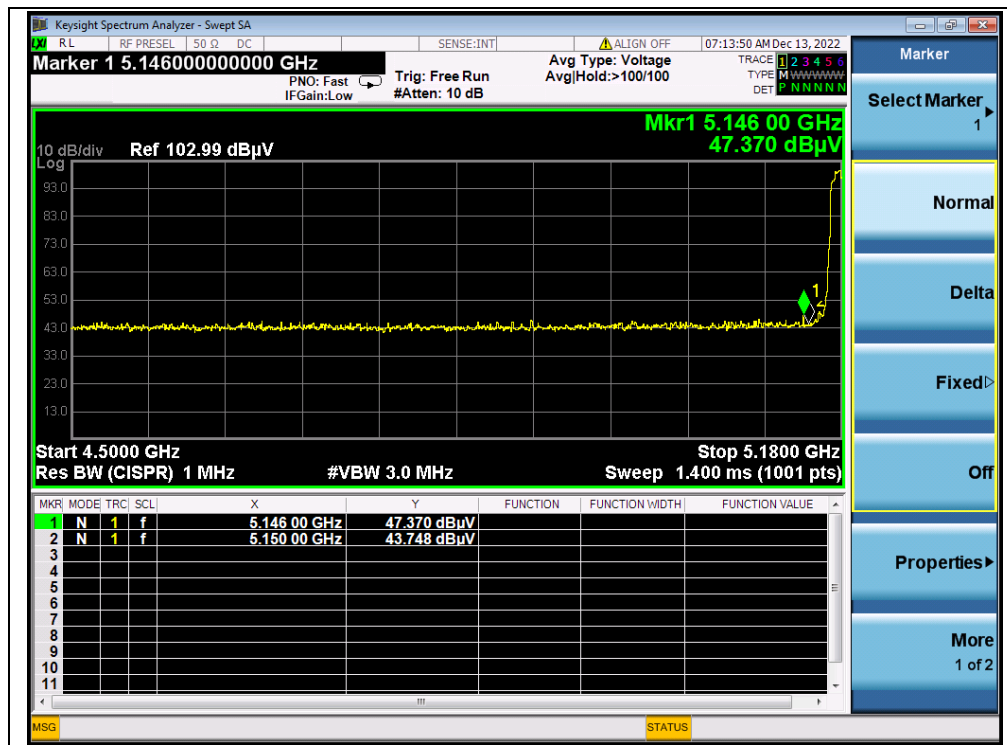


(Channel 155, PEAK, 802.11ac (VHT80))

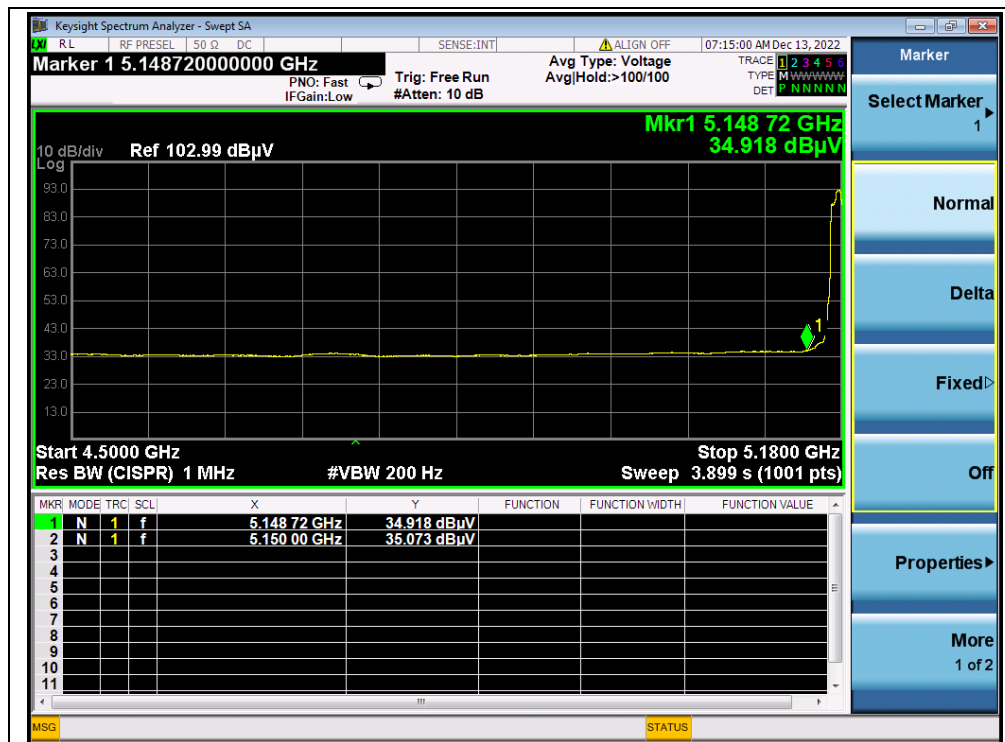


802.11ax (HEW20) Mode

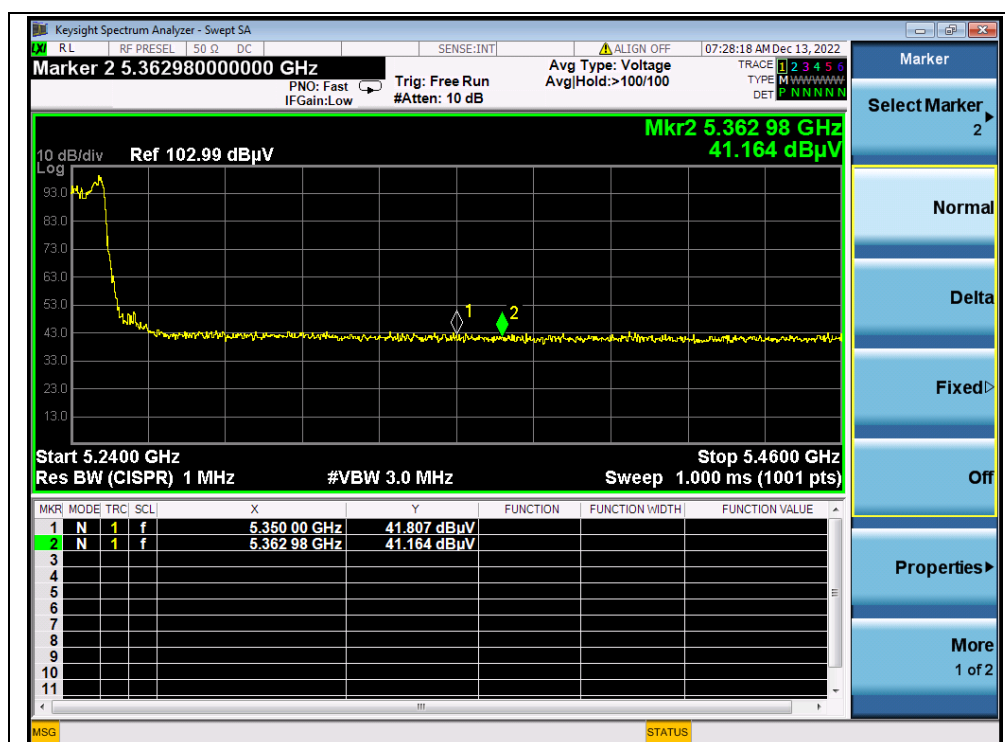
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBμV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
36	5146.00	PK	47.37	-19.54	32.20	60.03	74	PASS
36	5150.00	AV	35.07	-19.54	32.20	47.73	54	PASS
48	5350.00	PK	41.81	-19.54	32.20	54.47	74	PASS
48	5375.74	AV	32.70	-19.54	32.20	45.36	54	PASS
149	5725.00	PK	43.29	-19.01	32.20	56.48	122.23	PASS
165	5925.00	PK	41.19	-19.01	32.20	54.38	68.23	PASS



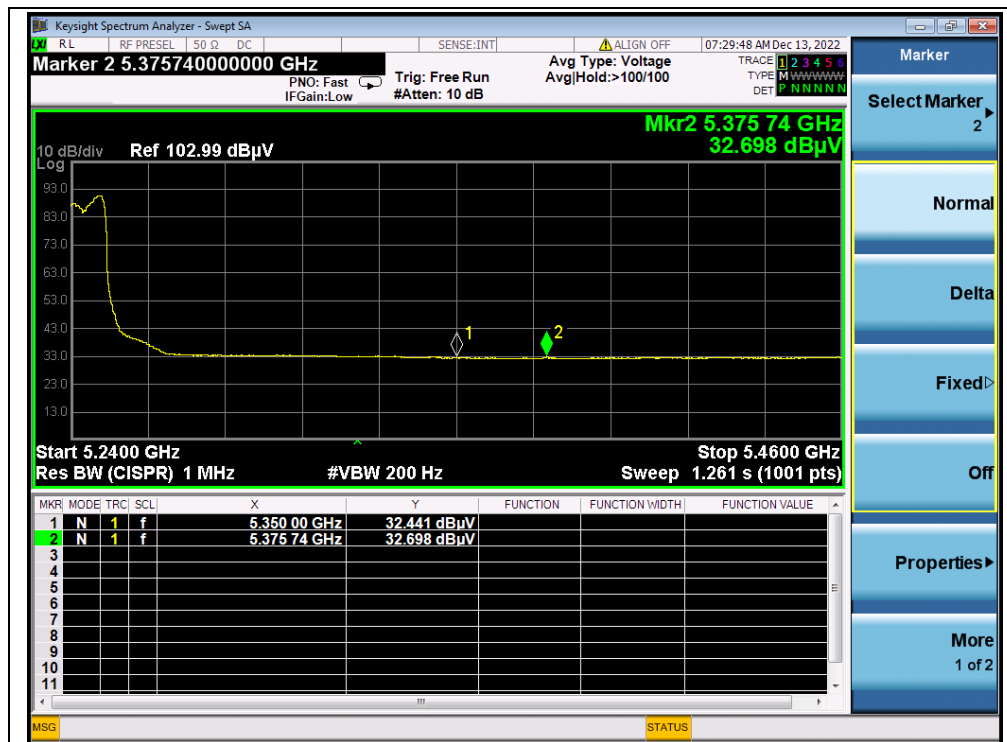
(PEAK, Channel 36, 802.11ax (HEW20))



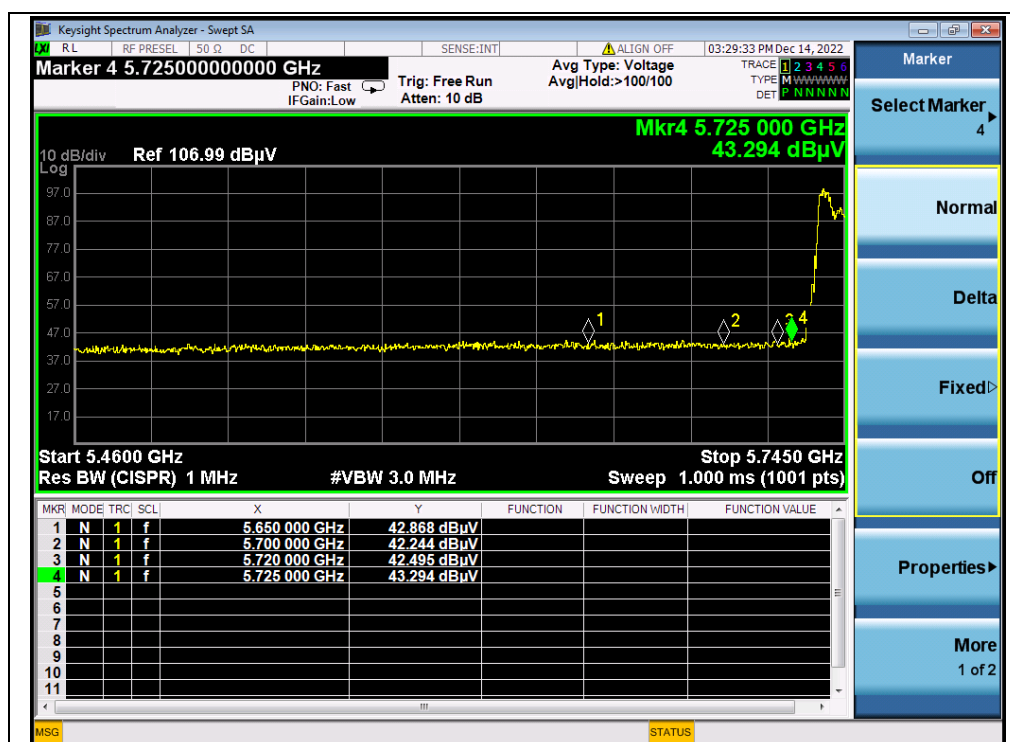
(AVERAGE, Channel 36, 802.11ax (HEW20))



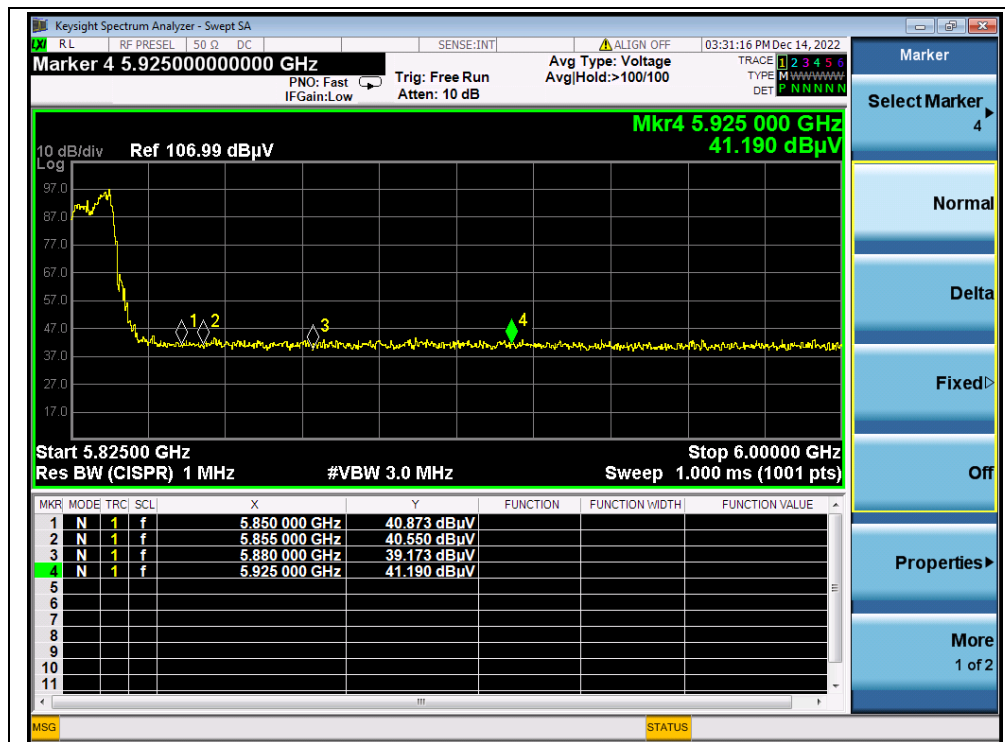
(PEAK, Channel 48, 802.11ax (HEW20))



(AVERAGE, Channel 48, 802.11ax (HEW20))



(PEAK, Channel 149, 802.11ax (HEW20))



(PEAK, Channel 165, 802.11ax (HEW20))



A.8. 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.

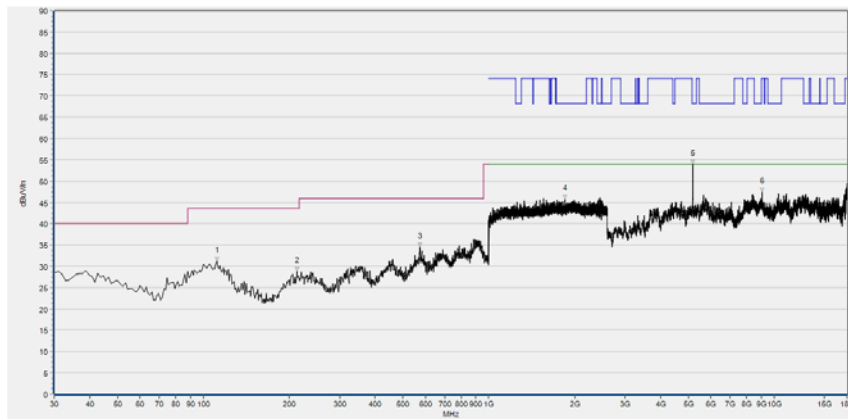
Note2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

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.

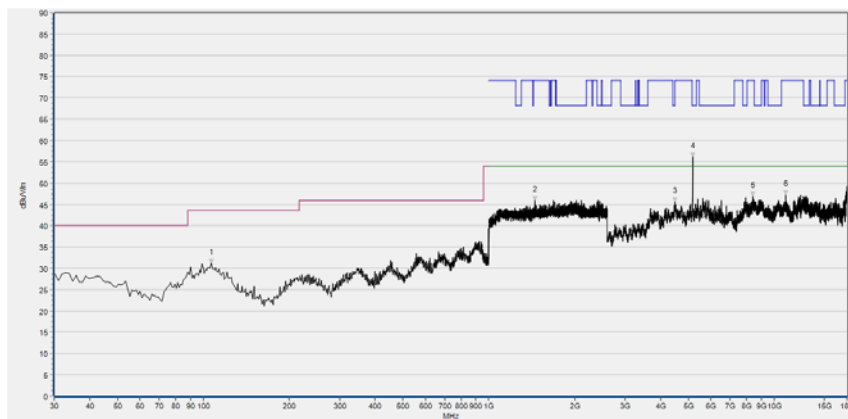
**802.11a Mode**

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
111.480	31.25	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
212.360	28.89	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
575.140	34.49	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1846.933	45.68	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5187.200	53.99	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
9068.000	47.42	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

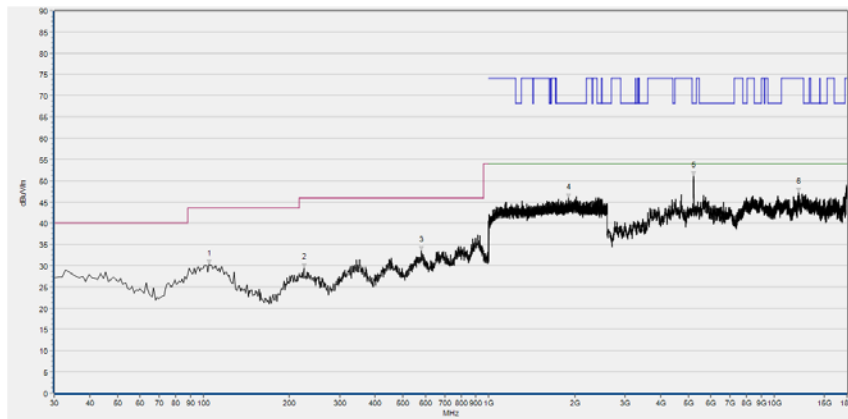
(Antenna Horizontal, 30MHz to 18GHz)



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
106.630	31.14	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1450.667	45.88	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4494.200	45.67	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5181.040	56.09	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8418.120	46.89	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10993.000	47.21	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

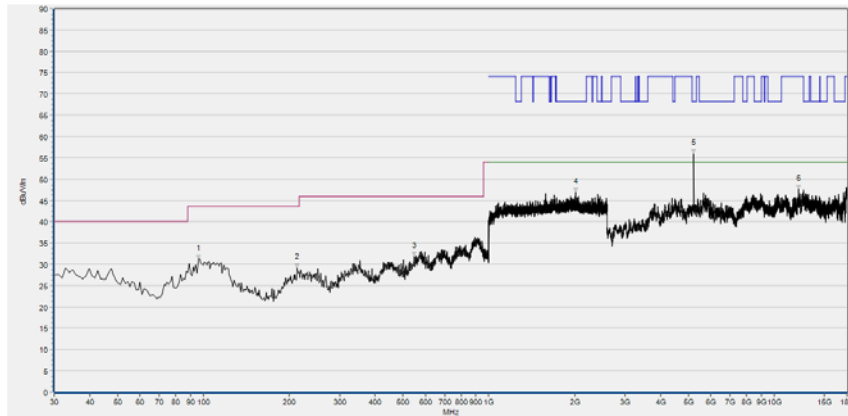
(Antenna Vertical, 30MHz to 18GHz)

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	30.39	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
224.970	29.58	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
579.990	33.56	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1902.400	45.99	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5227.240	51.11	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12194.200	47.18	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

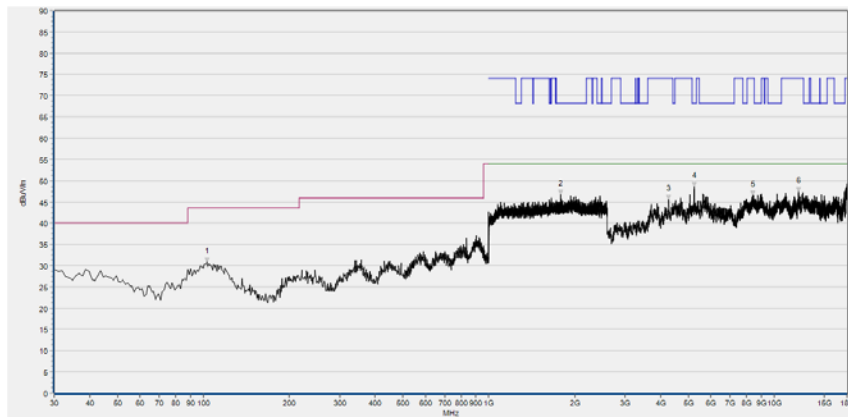
(Antenna Horizontal, 30MHz to 18GHz)



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
95.960	31.25	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
213.330	29.15	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
547.980	31.92	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2017.067	46.89	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5218.000	56.02	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12151.080	47.53	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

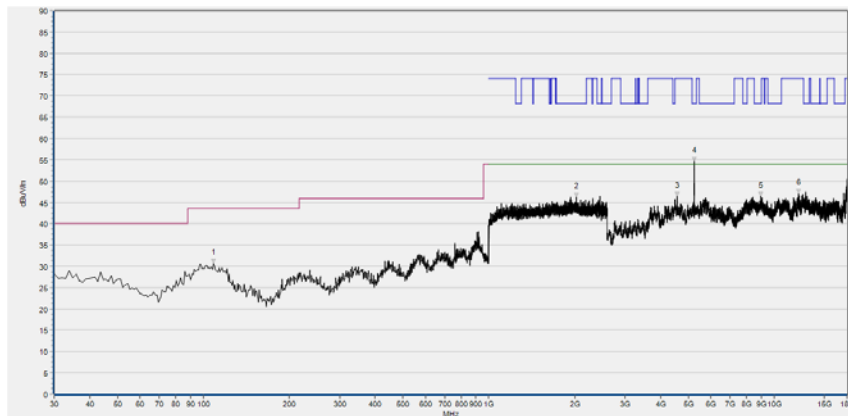
(Antenna Vertical, 30MHz to 18GHz)

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
102.750	30.82	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1784.000	46.84	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4272.440	45.57	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5245.720	48.53	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8427.360	46.60	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12178.800	47.37	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

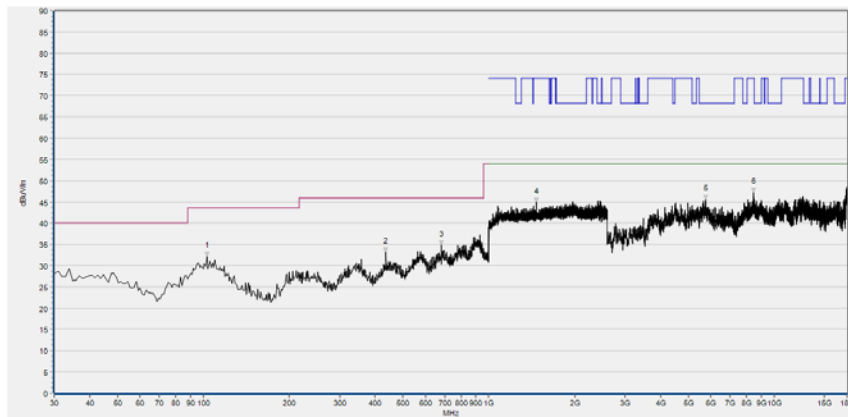
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
108.570	30.67	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2022.933	46.29	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4577.360	46.38	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5245.720	54.66	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8987.920	46.34	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12163.400	47.15	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

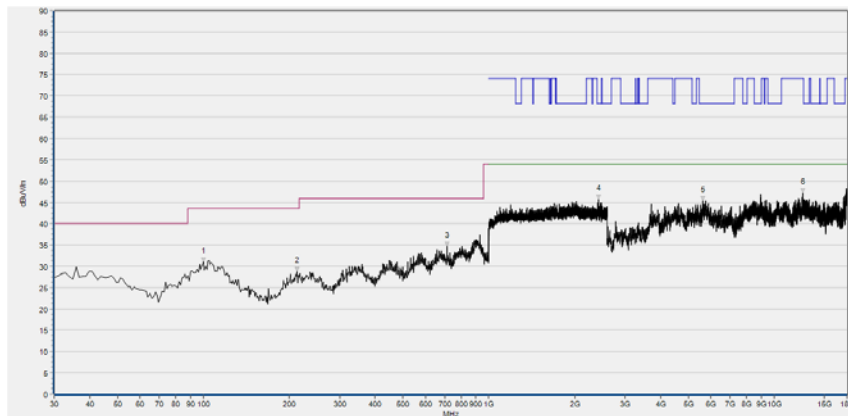
(Antenna Vertical, 30MHz to 18GHz)

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
102.750	32.26	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
435.460	33.16	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
680.870	34.81	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1466.133	44.90	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5741.600	45.65	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8452.000	47.28	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

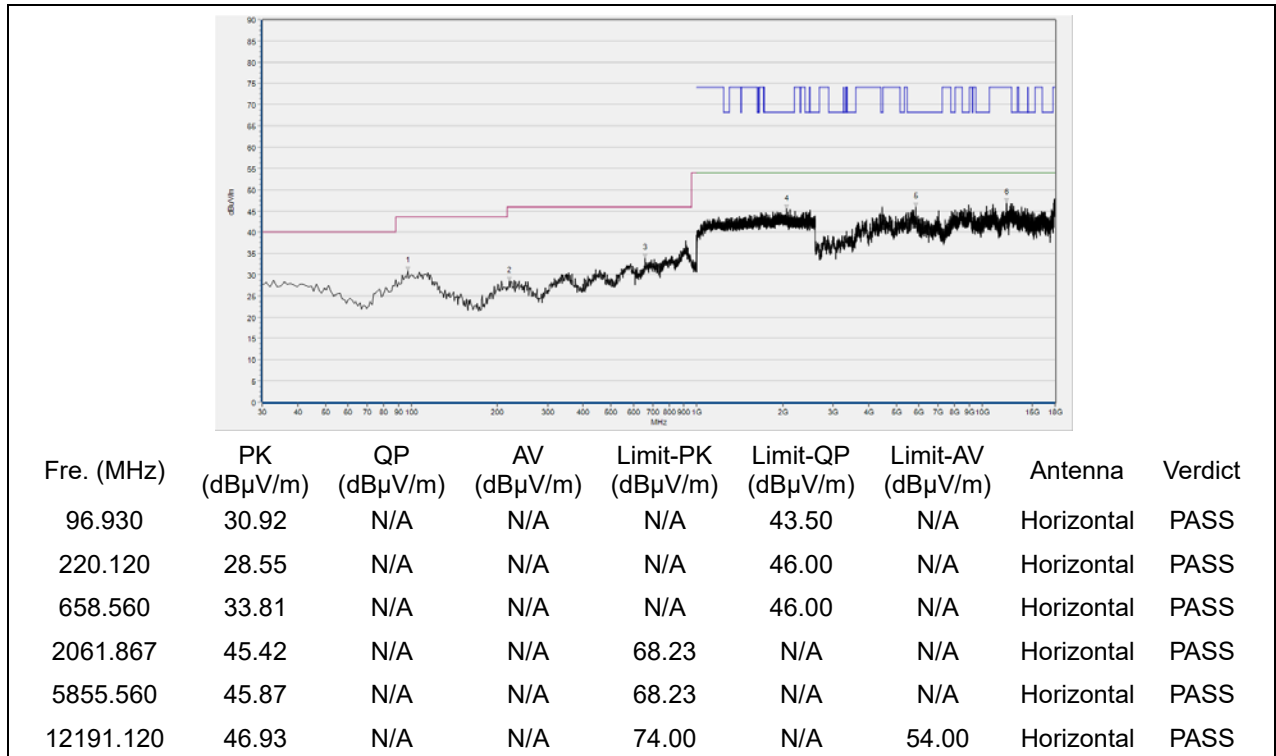
(Antenna Horizontal, 30MHz to 18GHz)



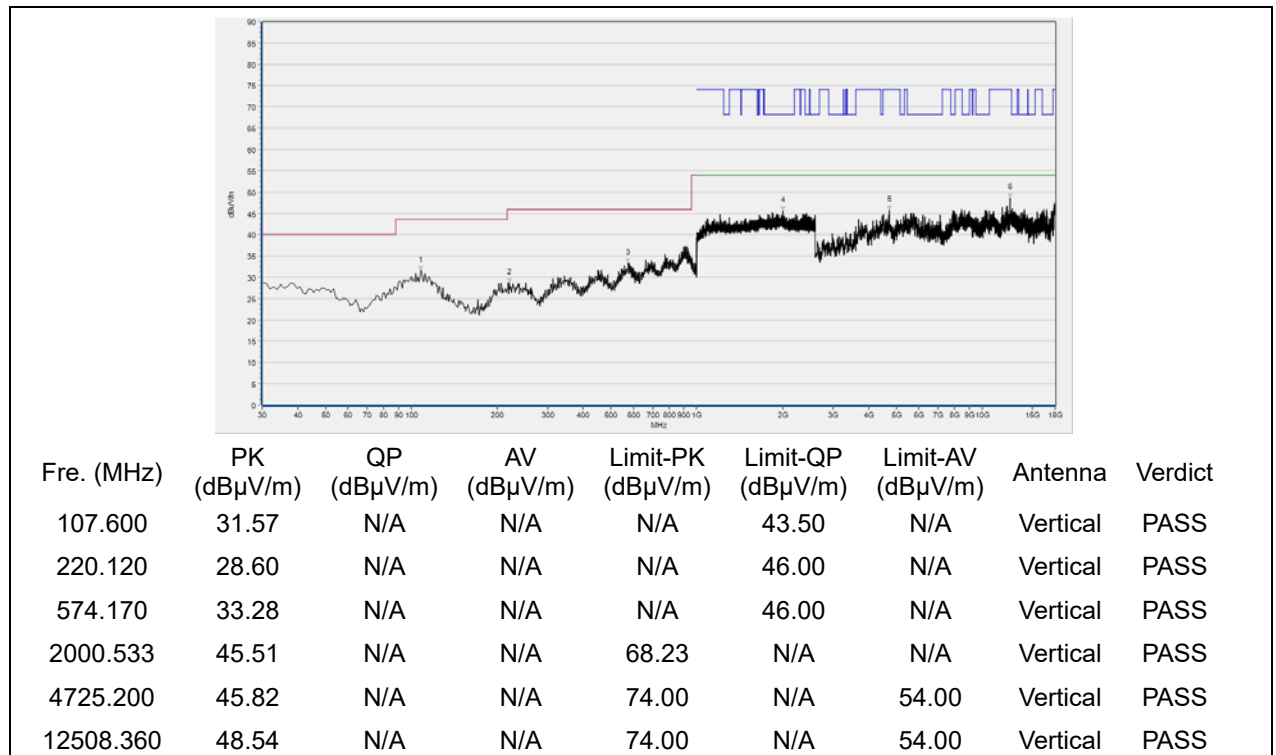
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
99.840	31.03	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
212.360	28.83	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
713.850	34.77	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2418.667	45.81	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5615.320	45.49	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12603.840	47.18	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 157

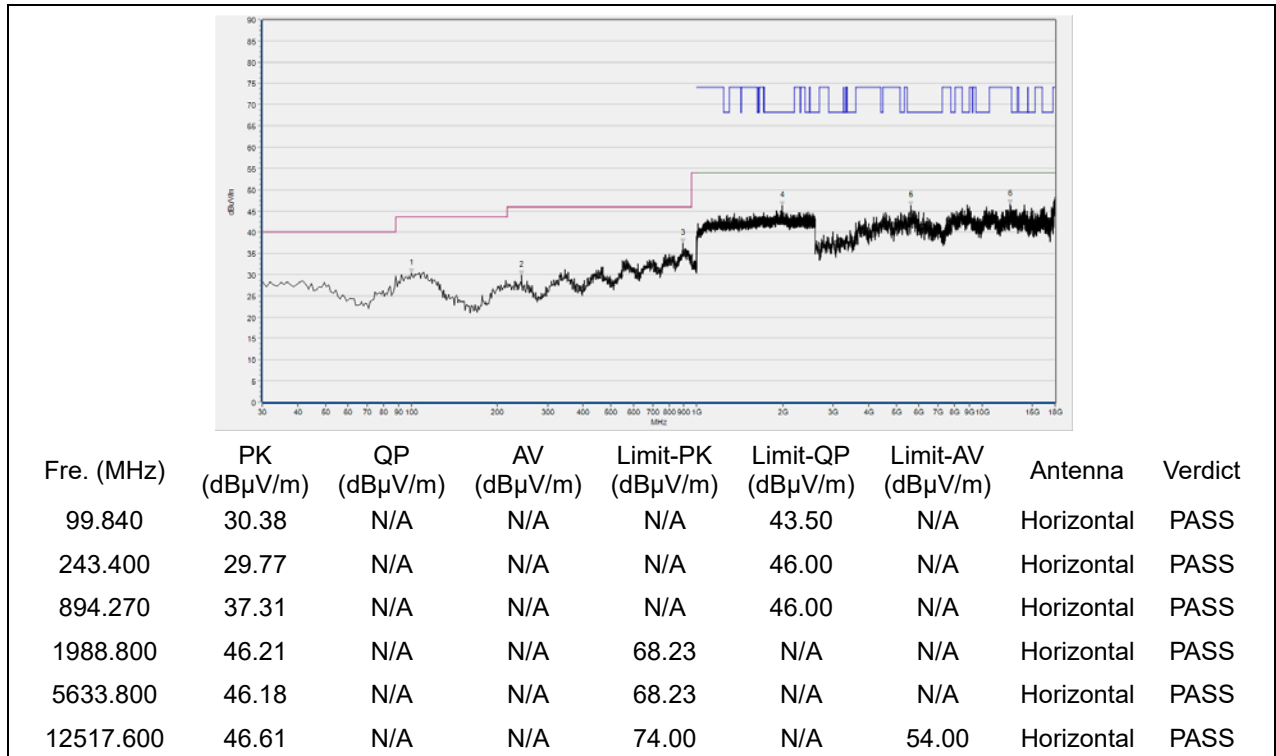


(Antenna Horizontal, 30MHz to 18GHz)

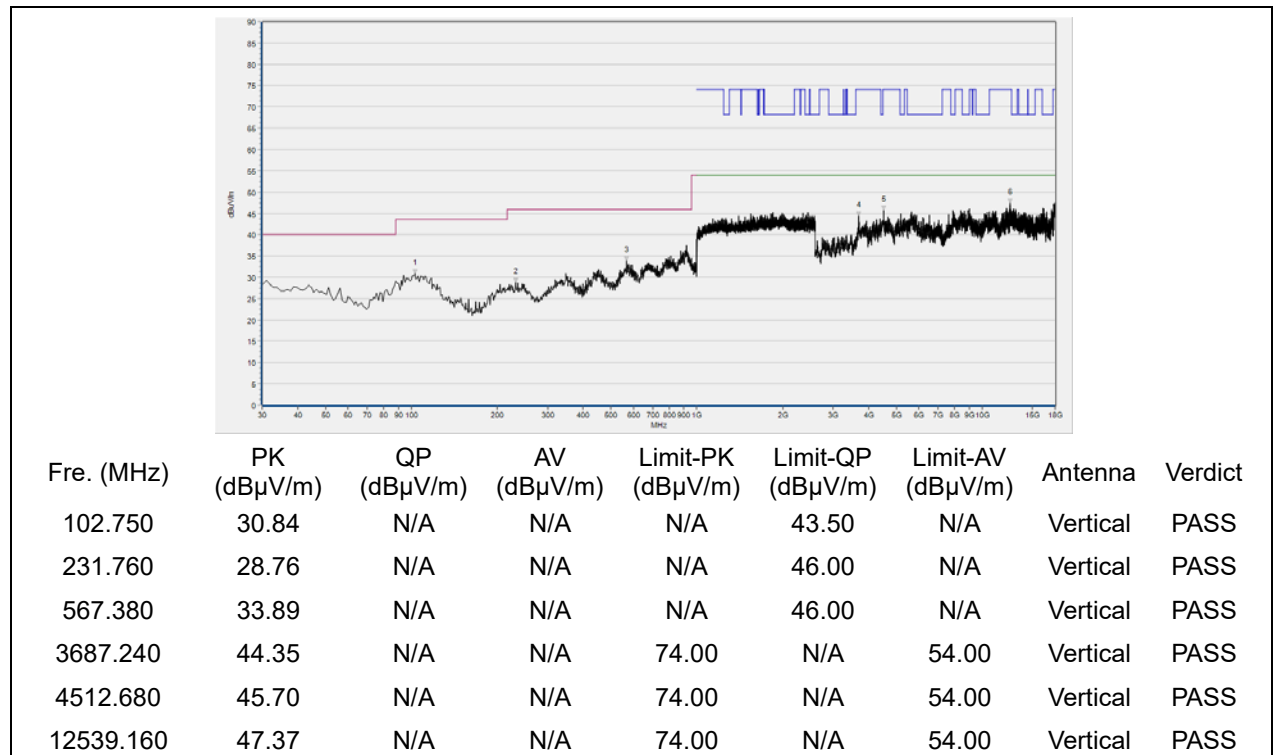


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 165



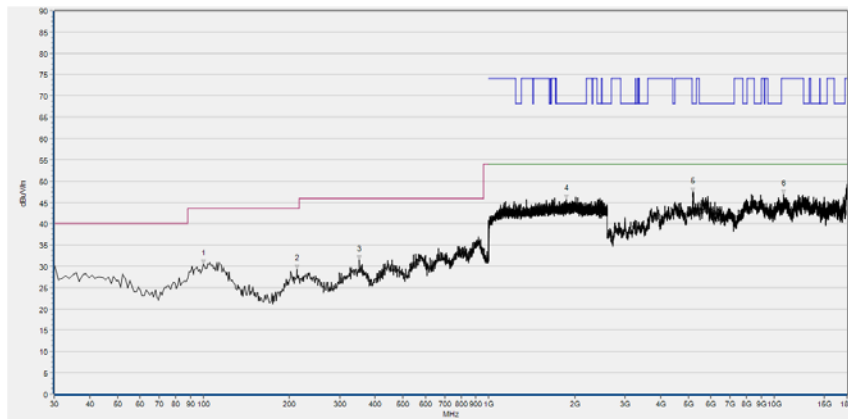
(Antenna Horizontal, 30MHz to 18GHz)



(Antenna Vertical, 30MHz to 18GHz)

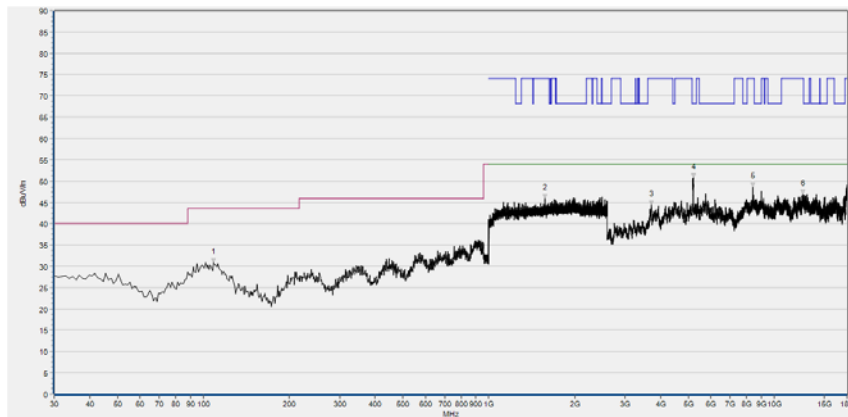
**802.11n (HT40) mode**

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
99.840	30.52	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
212.360	29.37	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
352.040	31.44	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1873.067	45.68	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5184.120	47.46	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10805.120	46.89	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

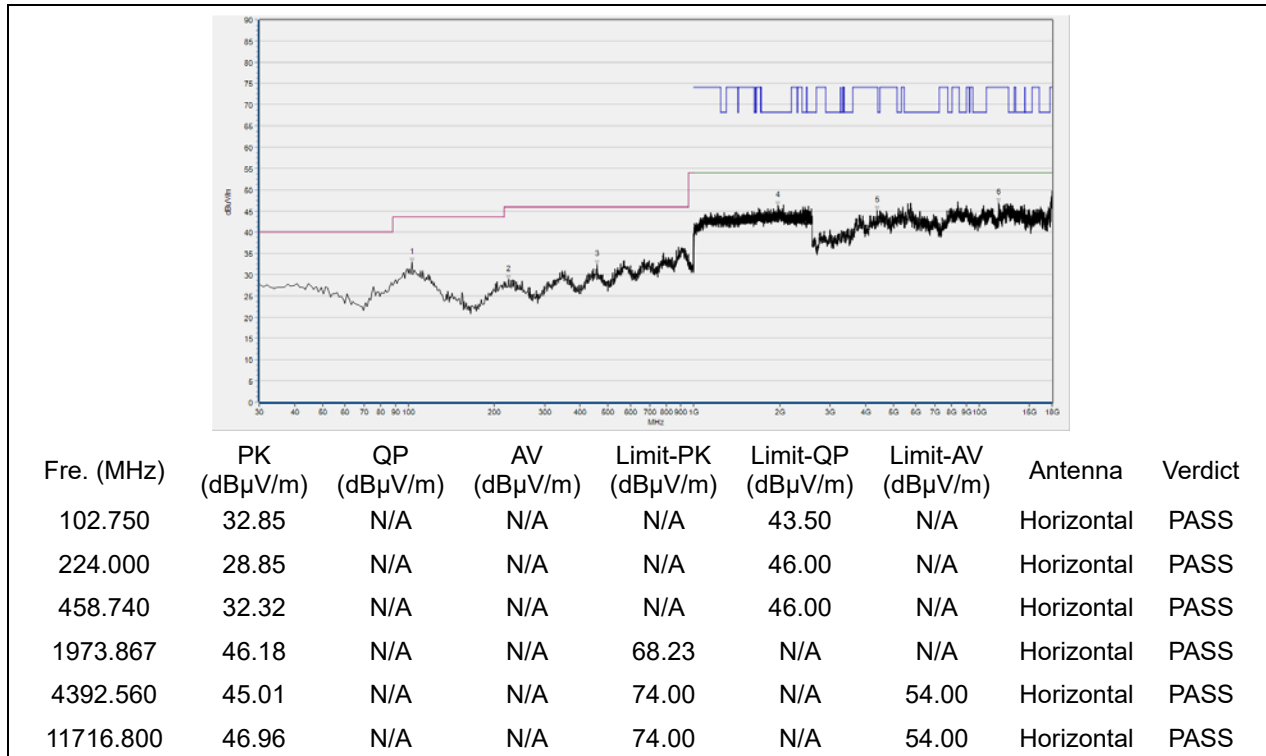
(Antenna Horizontal, 30MHz to 18GHz)



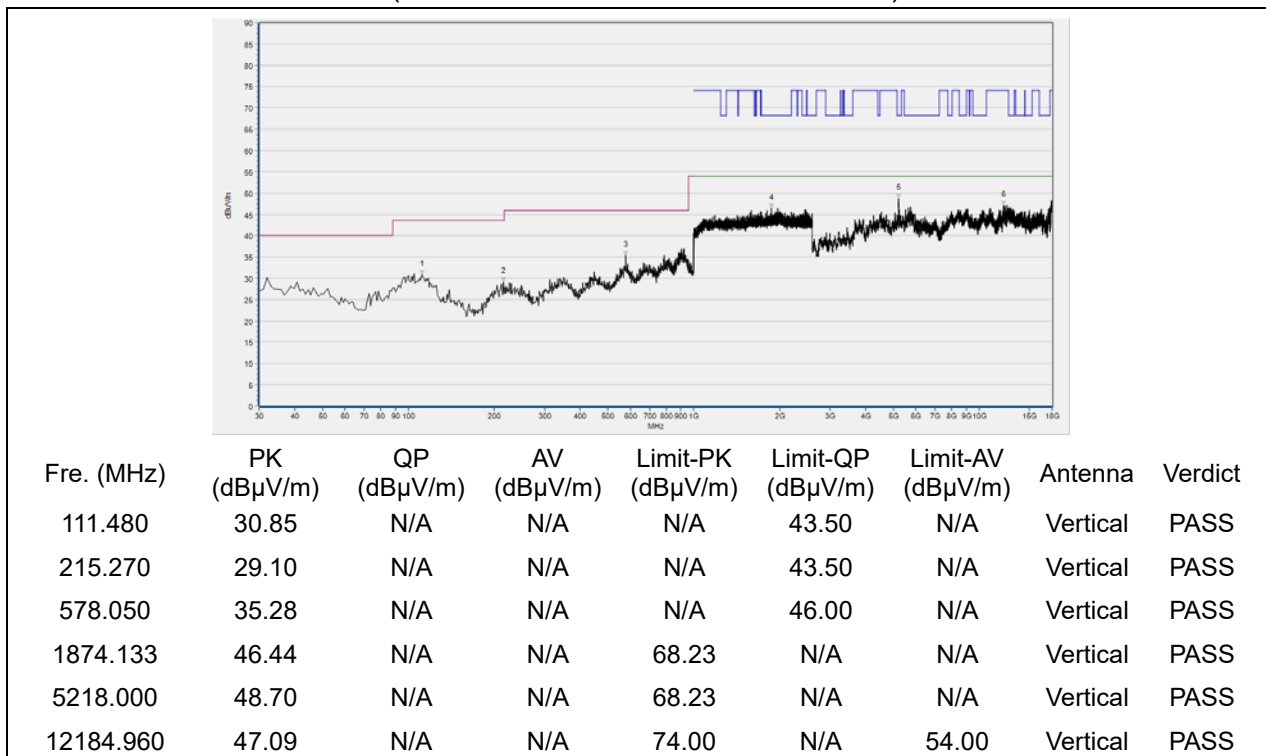
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
108.570	30.89	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1575.467	45.90	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3718.040	44.33	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5199.520	50.85	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8408.880	48.67	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12557.640	46.97	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 46

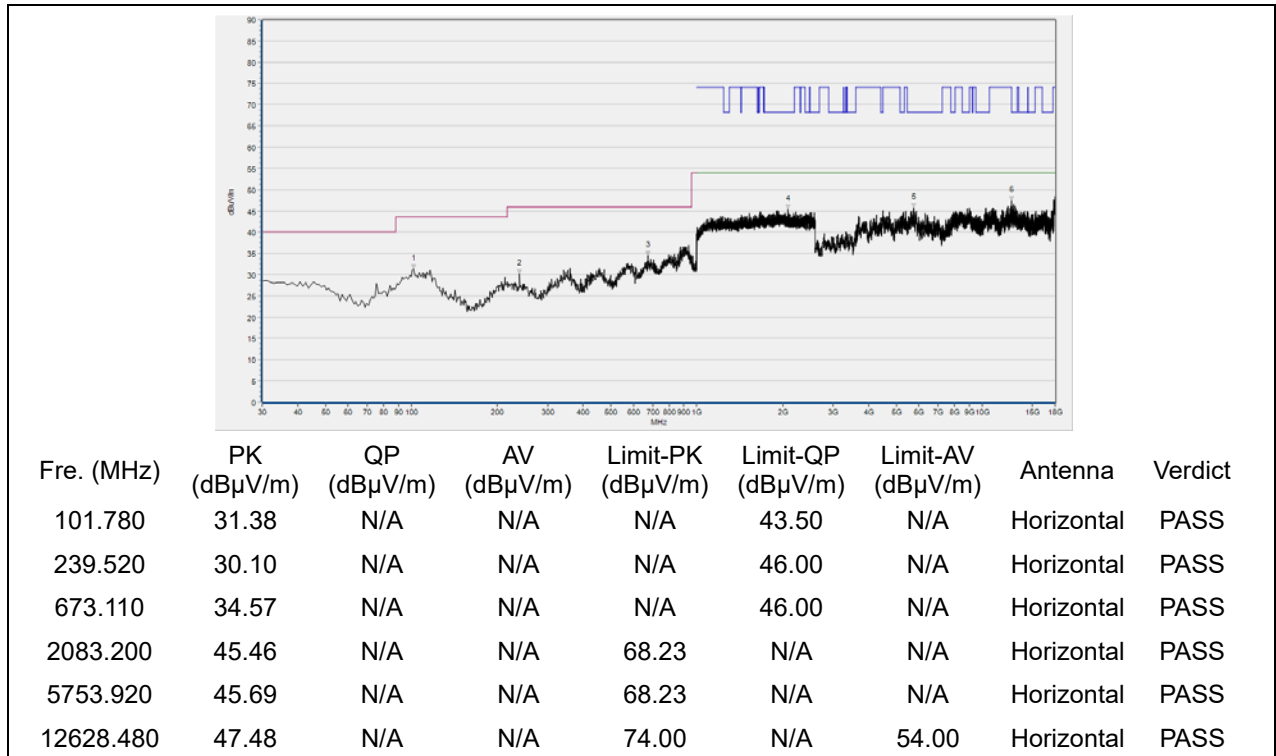


(Antenna Horizontal, 30MHz to 18GHz)

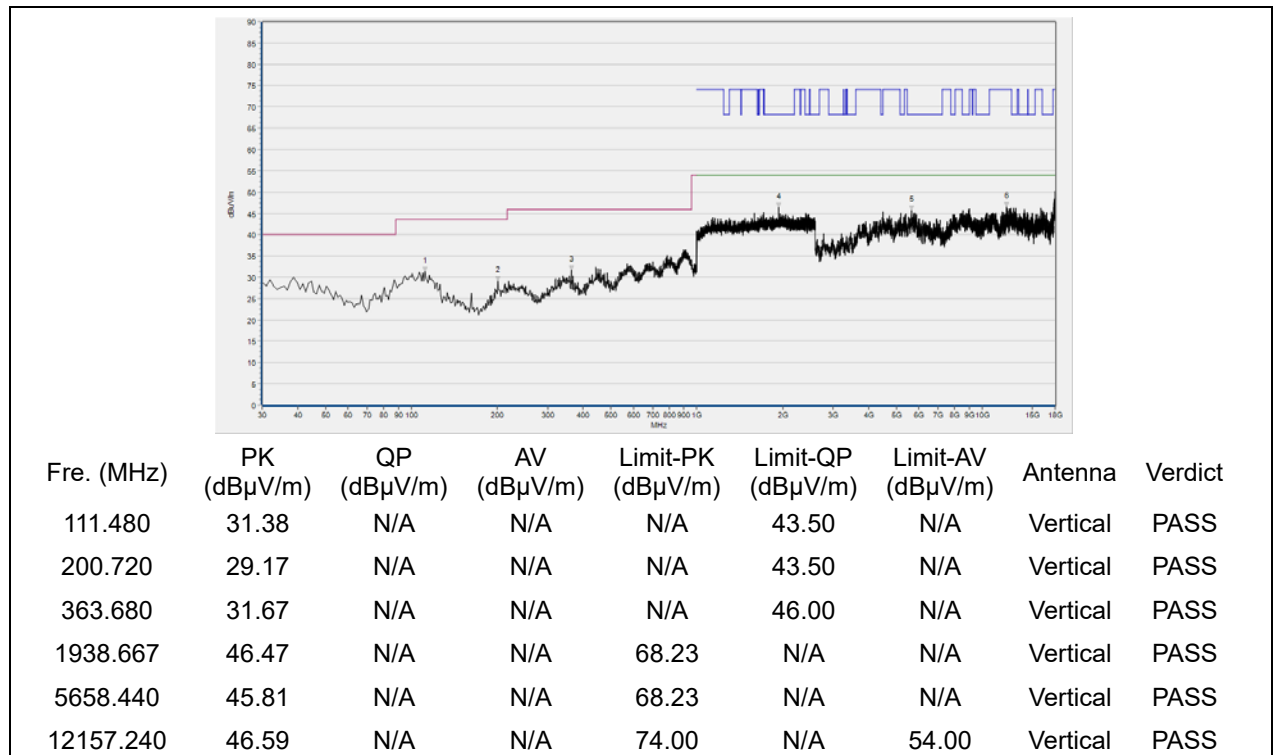


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 151

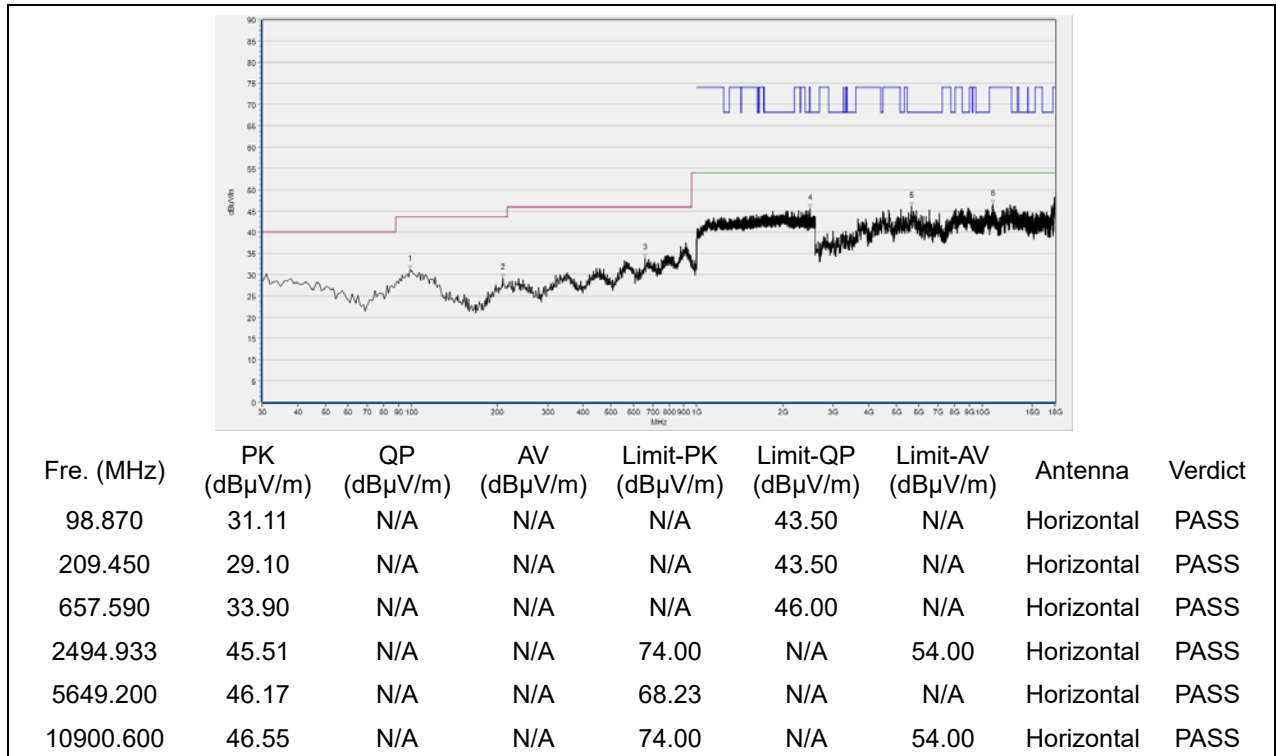


(Antenna Horizontal, 30MHz to 18GHz)

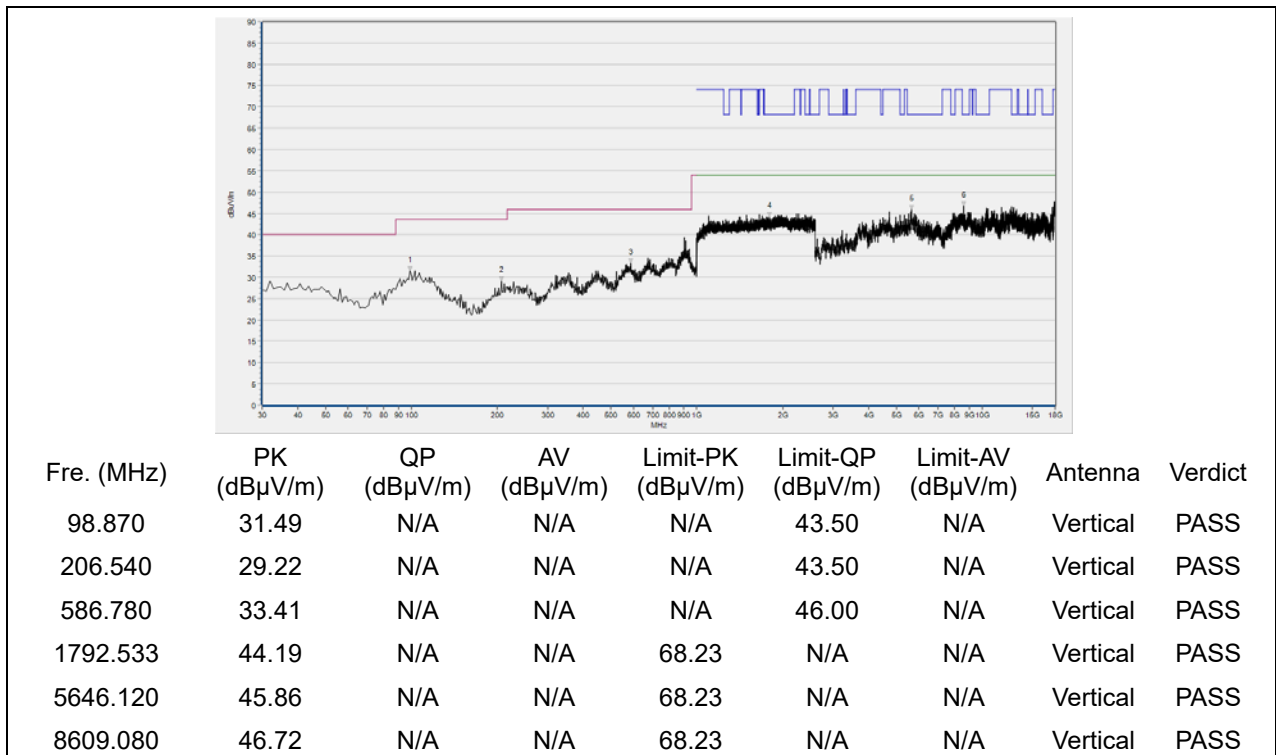


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 159



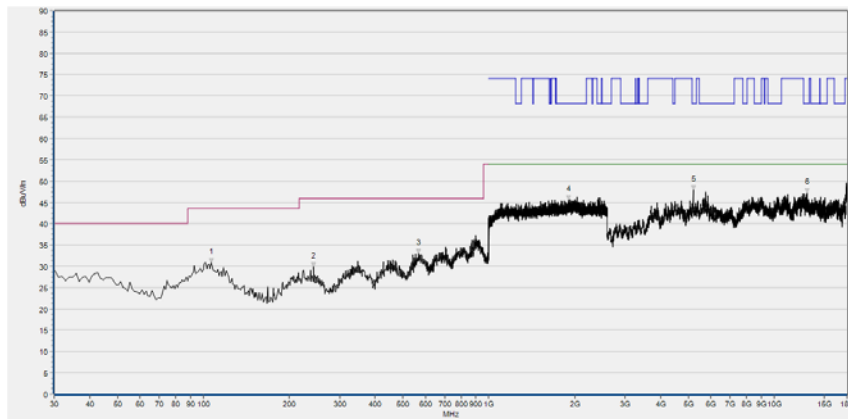
(Antenna Horizontal, 30MHz to 18GHz)



(Antenna Vertical, 30MHz to 18GHz)

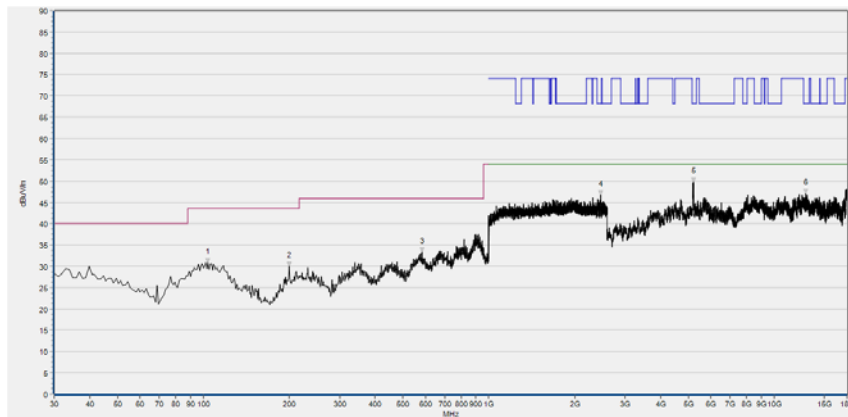
**802.11ac (VHT80) Mode**

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
106.630	30.91	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
243.400	29.86	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
565.440	32.96	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1902.400	45.56	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5199.520	47.99	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
13047.360	47.20	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

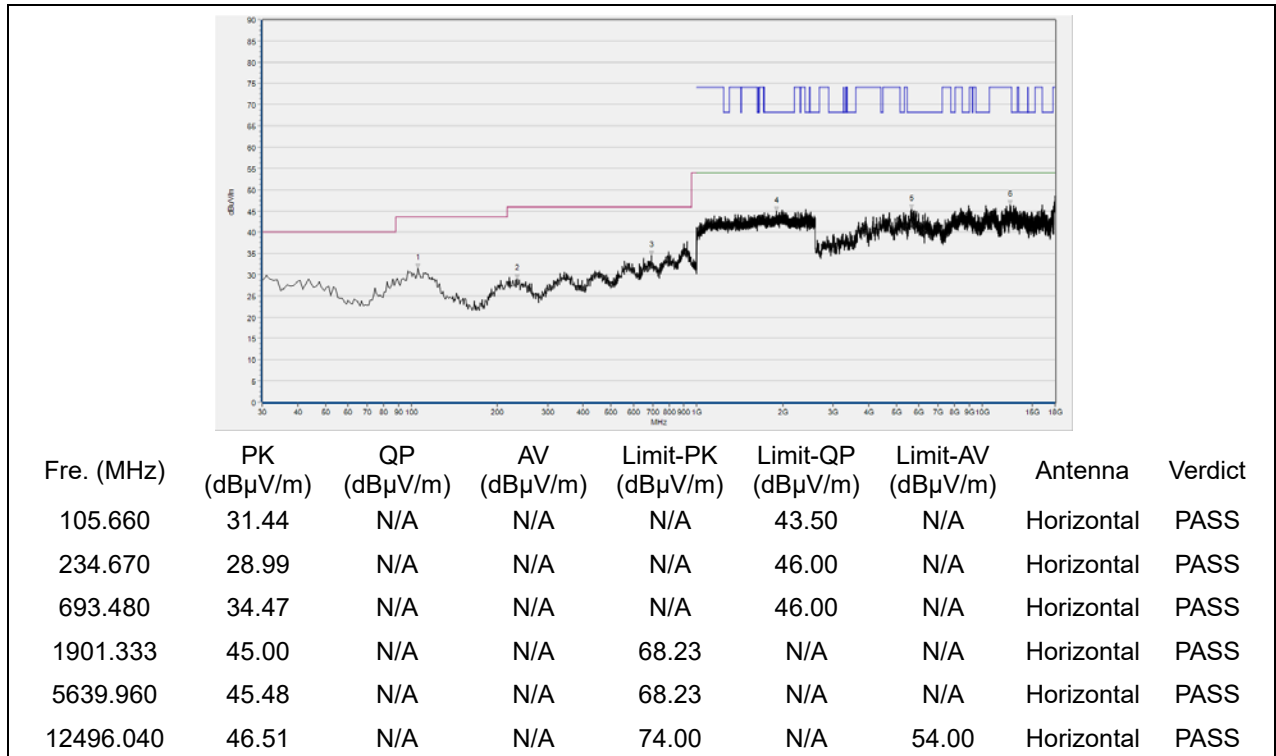
(Antenna Horizontal, 30MHz to 18GHz)



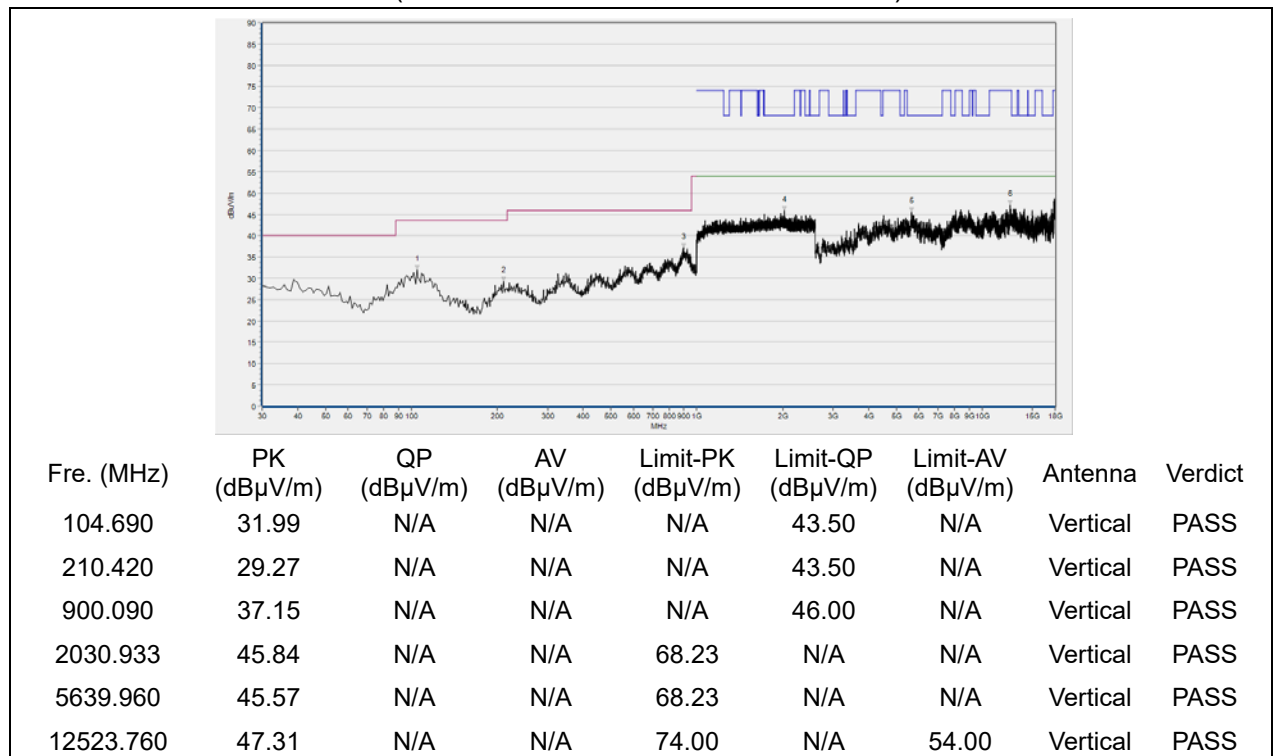
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
103.720	30.86	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
199.750	29.94	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
582.900	33.31	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2458.667	46.68	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5202.600	49.74	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12905.680	47.02	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 155



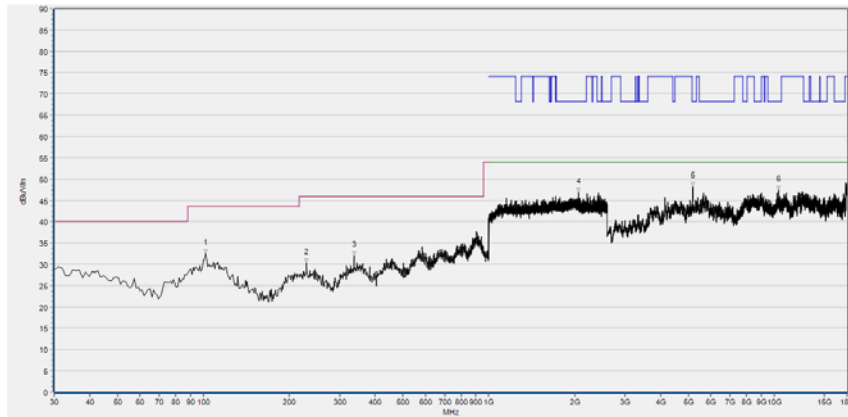
(Antenna Horizontal, 30MHz to 18GHz)



(Antenna Vertical, 30MHz to 18GHz)

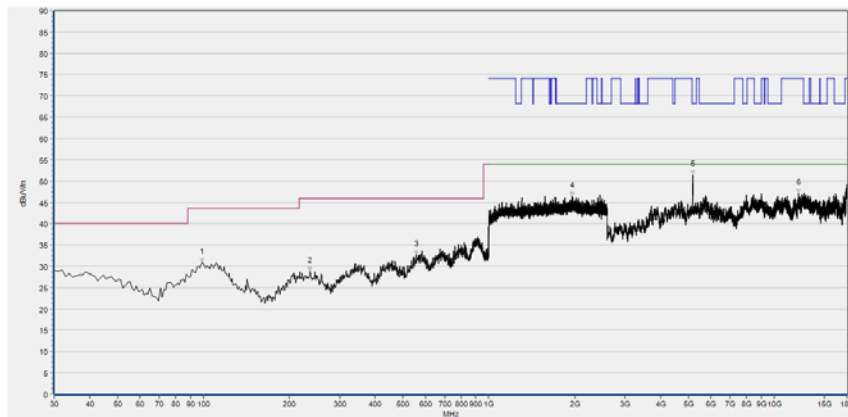
**802.11ax (HEW20) Mode**

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
101.780	32.52	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
229.820	30.39	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
337.490	32.00	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2065.067	47.00	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5181.040	48.20	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10358.520	47.36	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

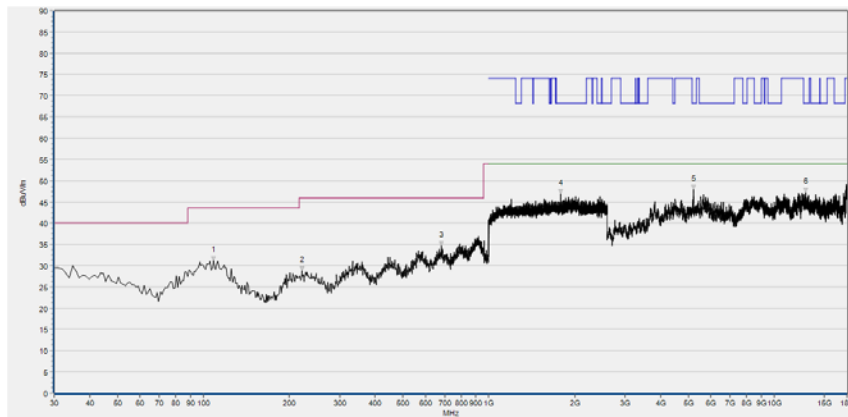


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
98.870	30.79	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
236.610	28.84	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
557.680	32.66	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1959.467	46.37	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5177.960	51.47	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12194.200	47.06	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

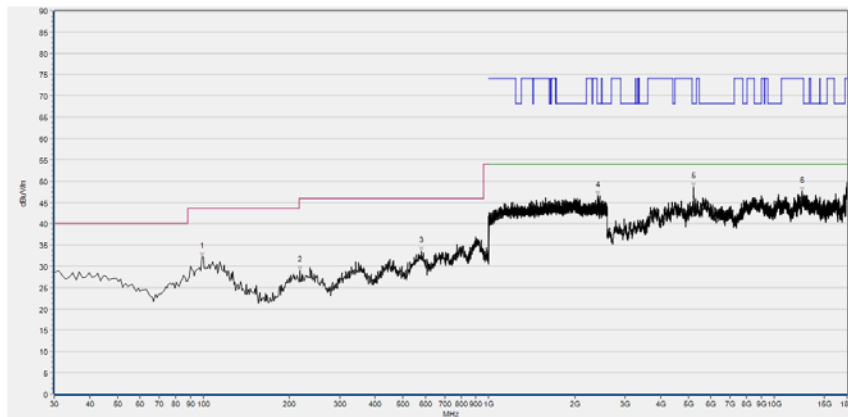


Plot for Channel 44



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
108.570	31.17	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
221.090	28.77	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
682.810	34.63	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1784.000	46.86	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5214.920	47.99	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12887.200	47.23	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

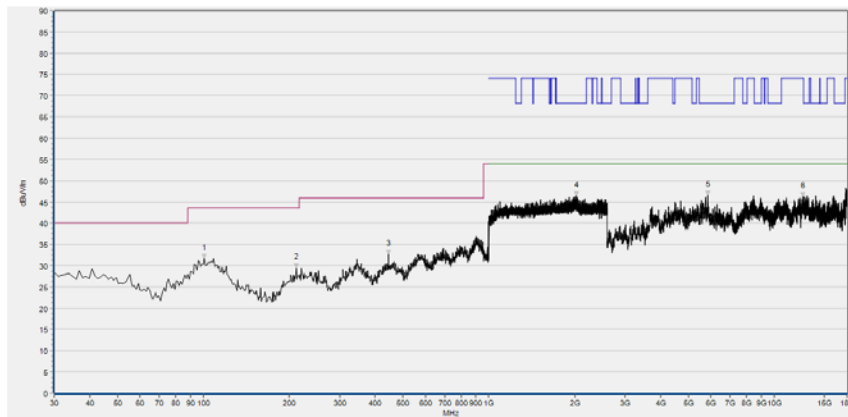
(Antenna Horizontal, 30MHz to 18GHz)



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
98.870	32.21	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
217.210	28.93	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
580.960	33.53	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2408.533	46.58	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5214.920	48.61	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12520.680	47.61	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

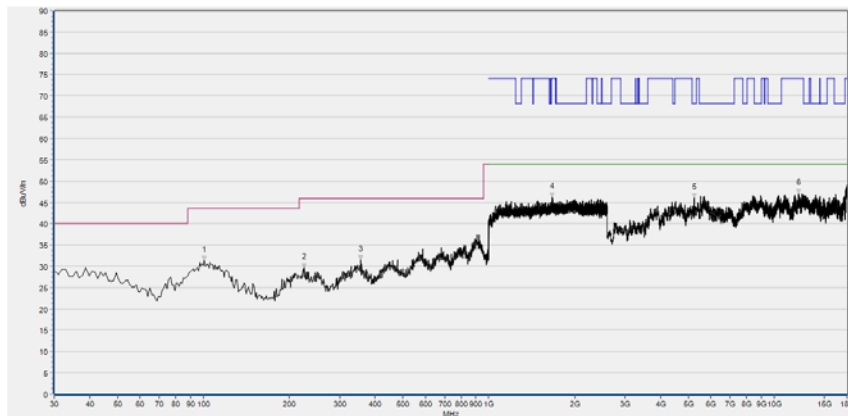
(Antenna Vertical, 30MHz to 18GHz)

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
100.810	31.61	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
211.390	29.44	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
445.160	32.63	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2025.600	46.35	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5849.400	46.67	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12600.760	46.29	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

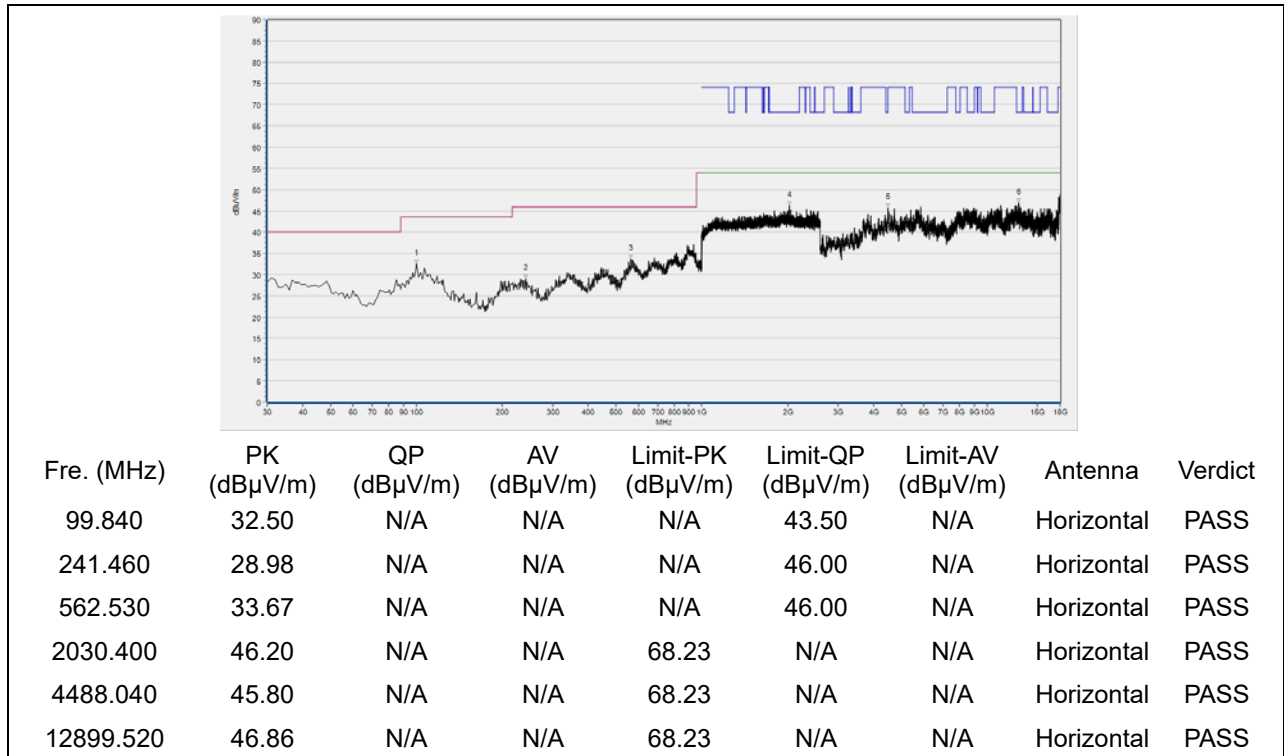
(Antenna Horizontal, 30MHz to 18GHz)



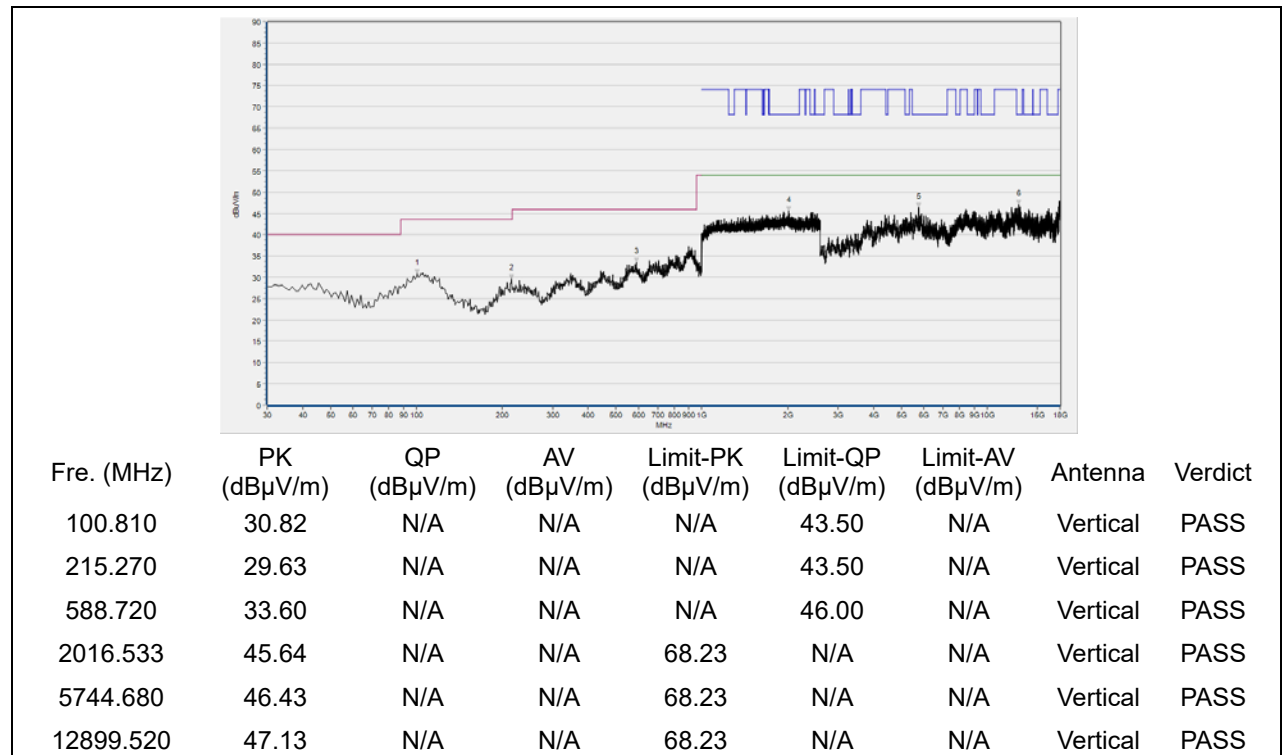
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
100.810	31.31	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
225.940	29.58	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
355.920	31.45	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1665.067	46.31	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5239.560	46.07	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12175.720	47.16	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 149

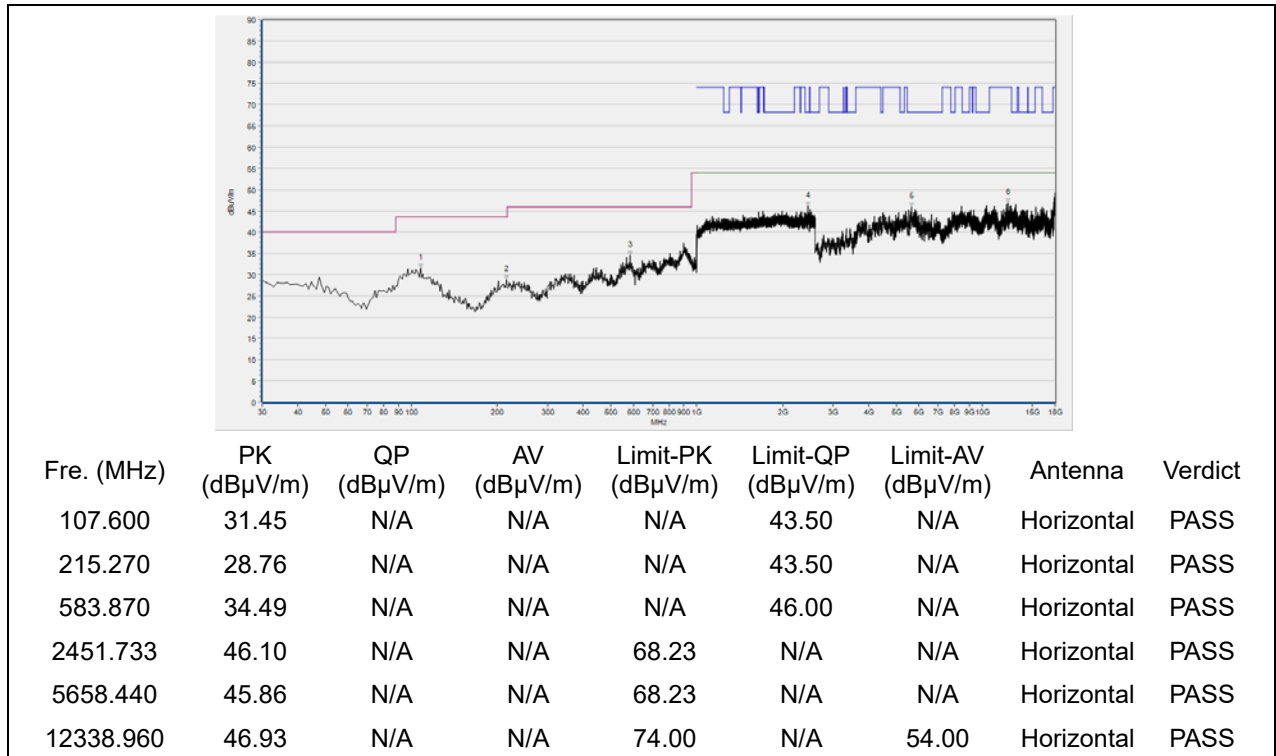


(Antenna Horizontal, 30MHz to 18GHz)

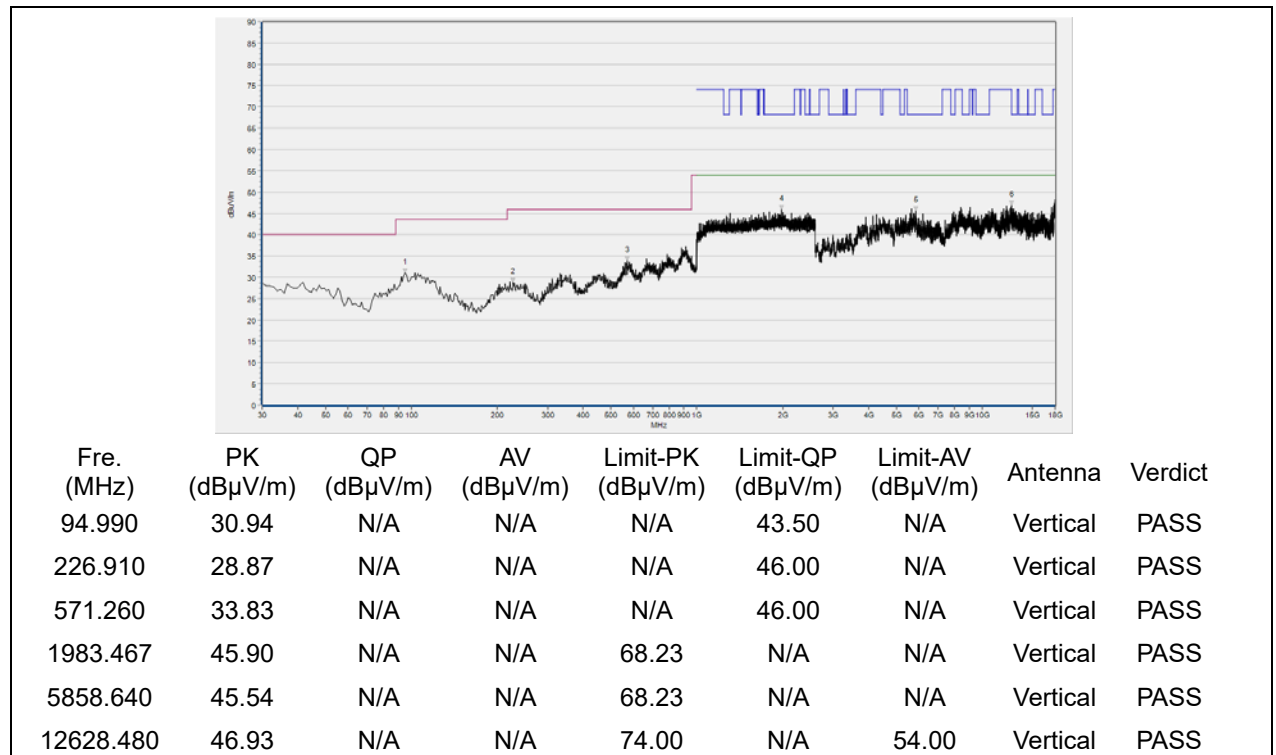


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 157



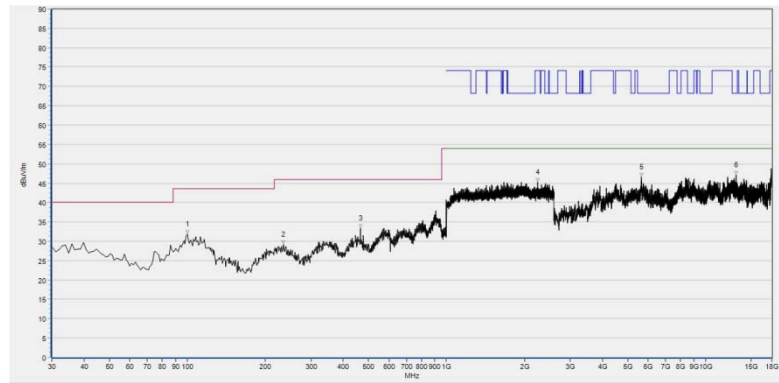
(Antenna Horizontal, 30MHz to 18GHz)



(Antenna Vertical, 30MHz to 18GHz)

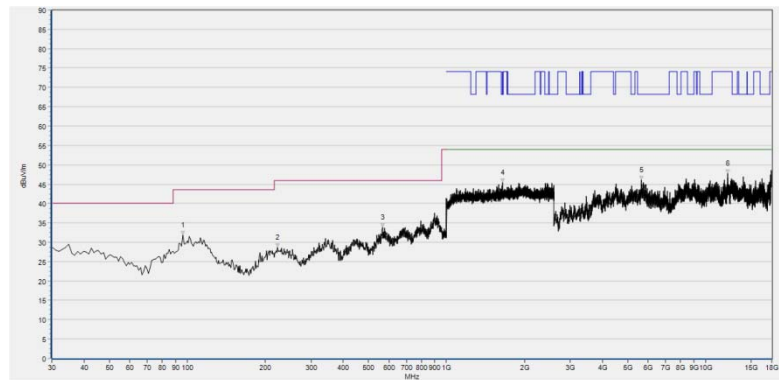


Plot for Channel 165



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
99.840	31.76	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
234.670	29.22	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
465.530	33.30	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2249.067	45.23	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5661.520	46.63	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
13078.160	47.15	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
95.960	31.76	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
223.030	28.66	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
565.440	33.91	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1646.400	45.42	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5649.200	46.11	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12194.200	47.73	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

END OF REPORT