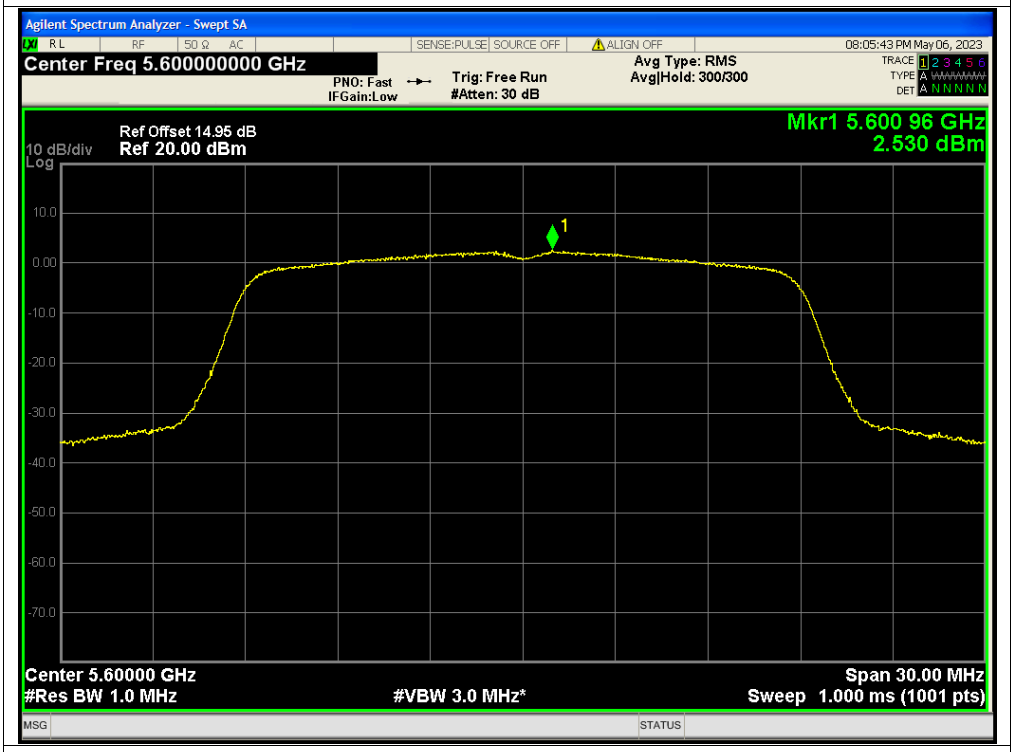
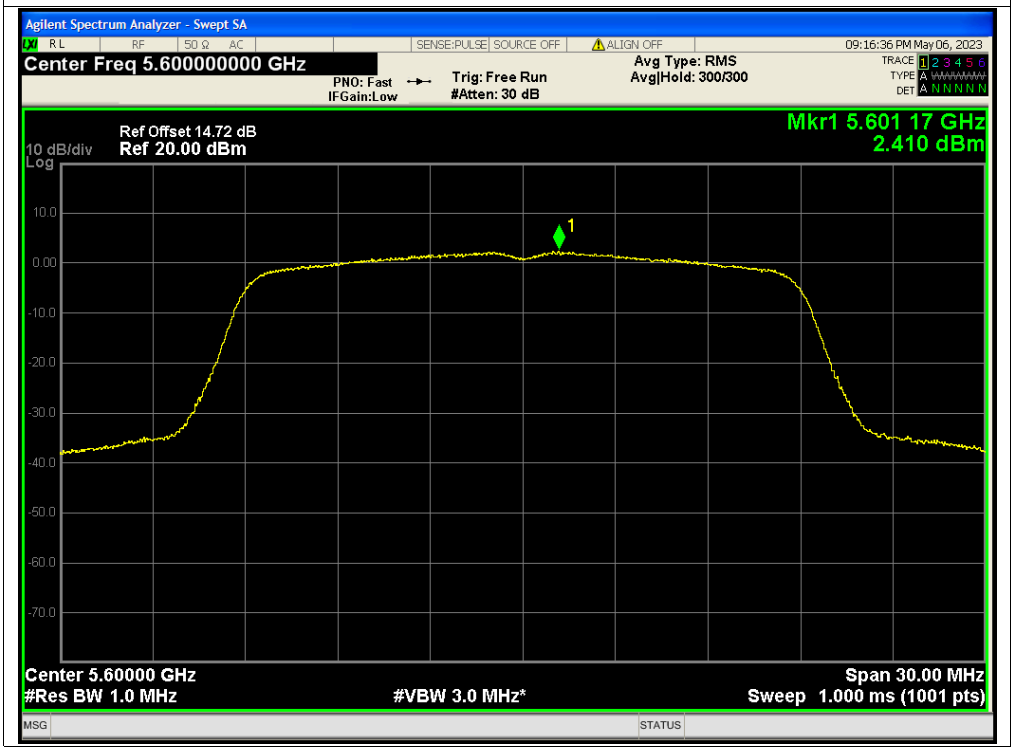
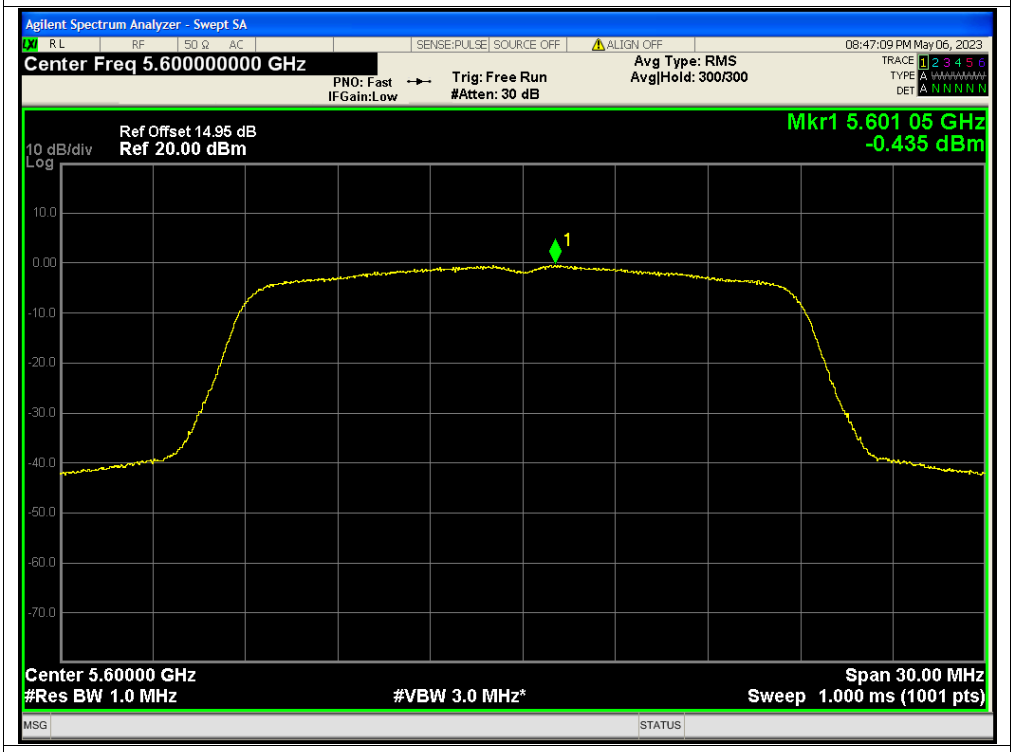
PSD NVNT ac20 5600MHz Ant0



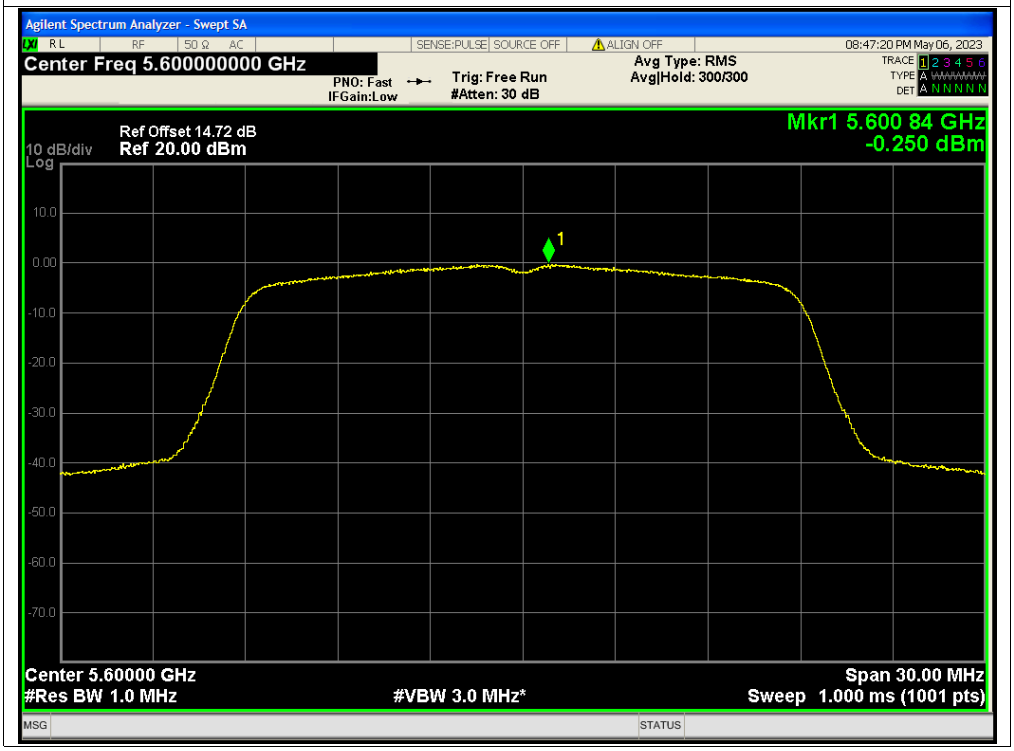
PSD NVNT ac20 5600MHz Ant1



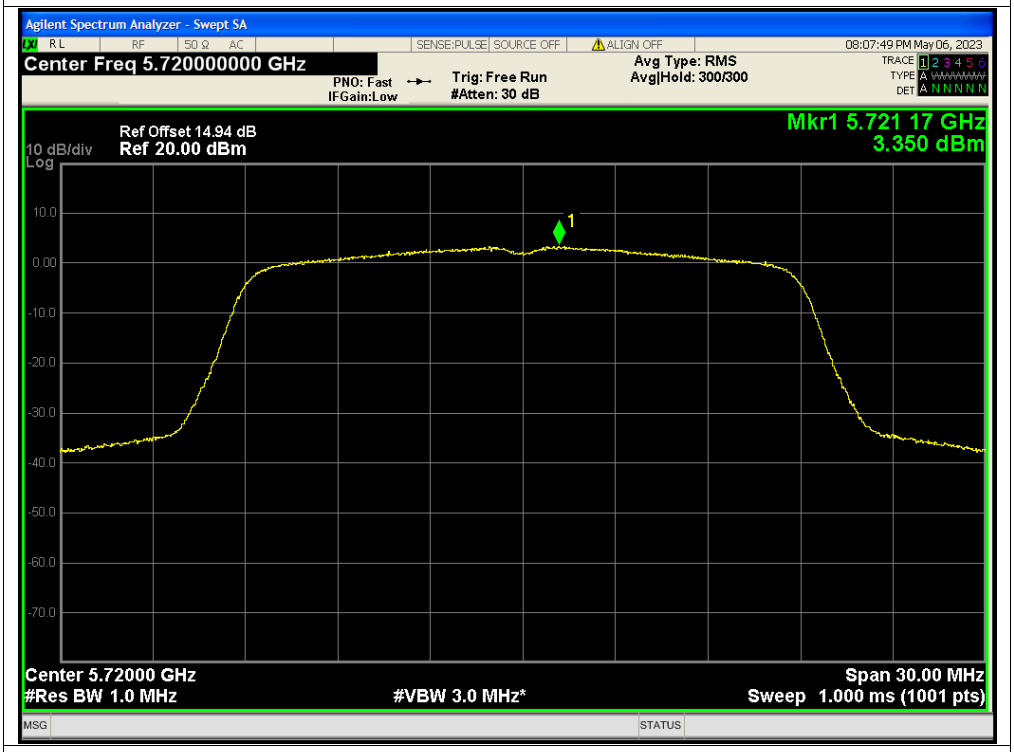
PSD NVNT ac20 5600MHz Ant0



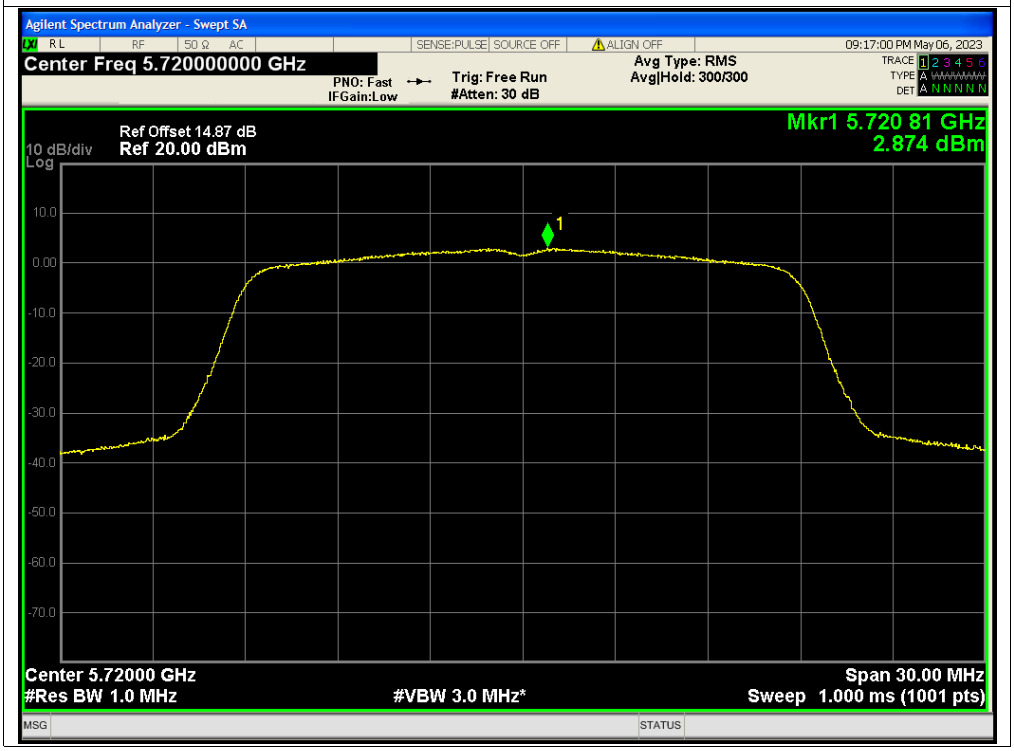
PSD NVNT ac20 5600MHz Ant1



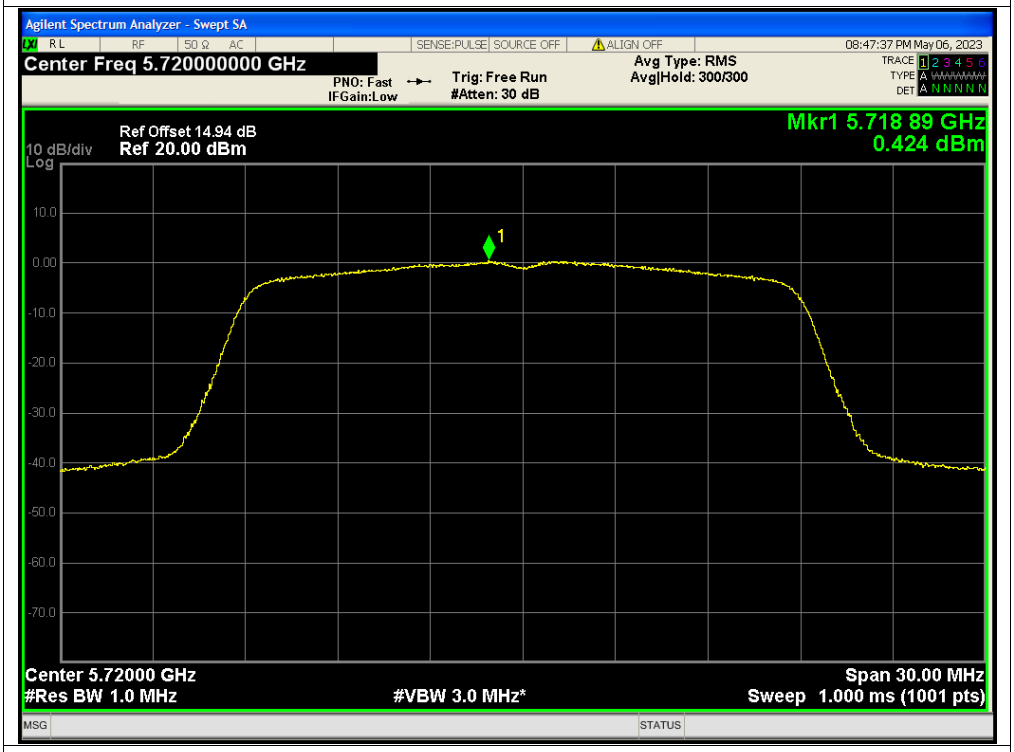
PSD NVNT ac20 5720MHz Ant0



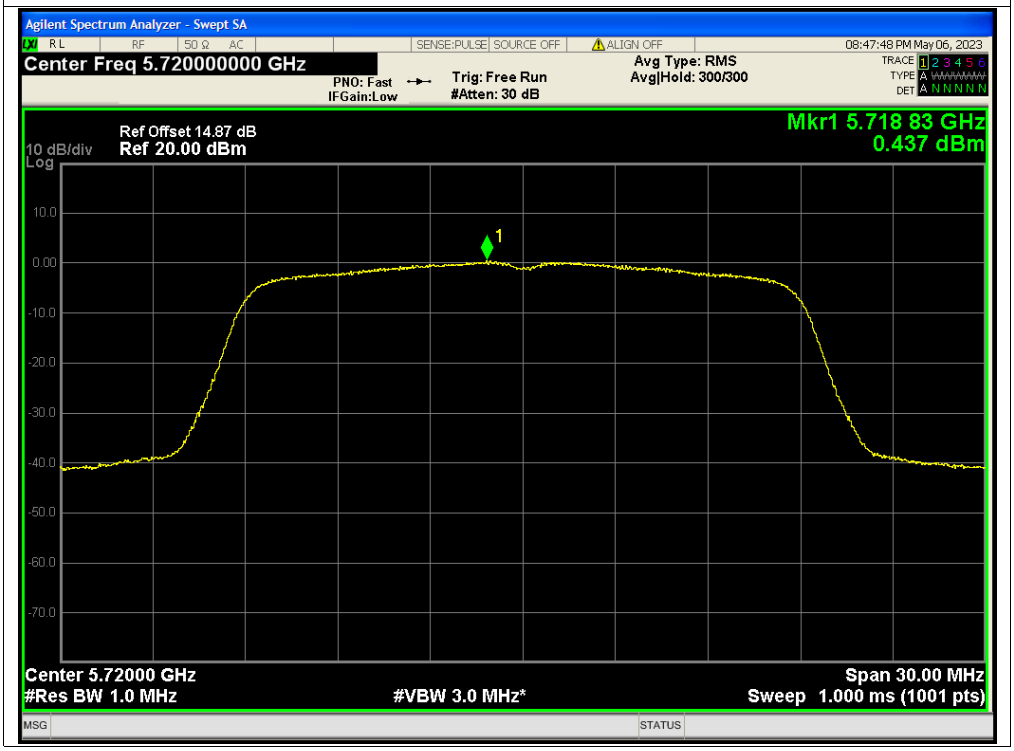
PSD NVNT ac20 5720MHz Ant1



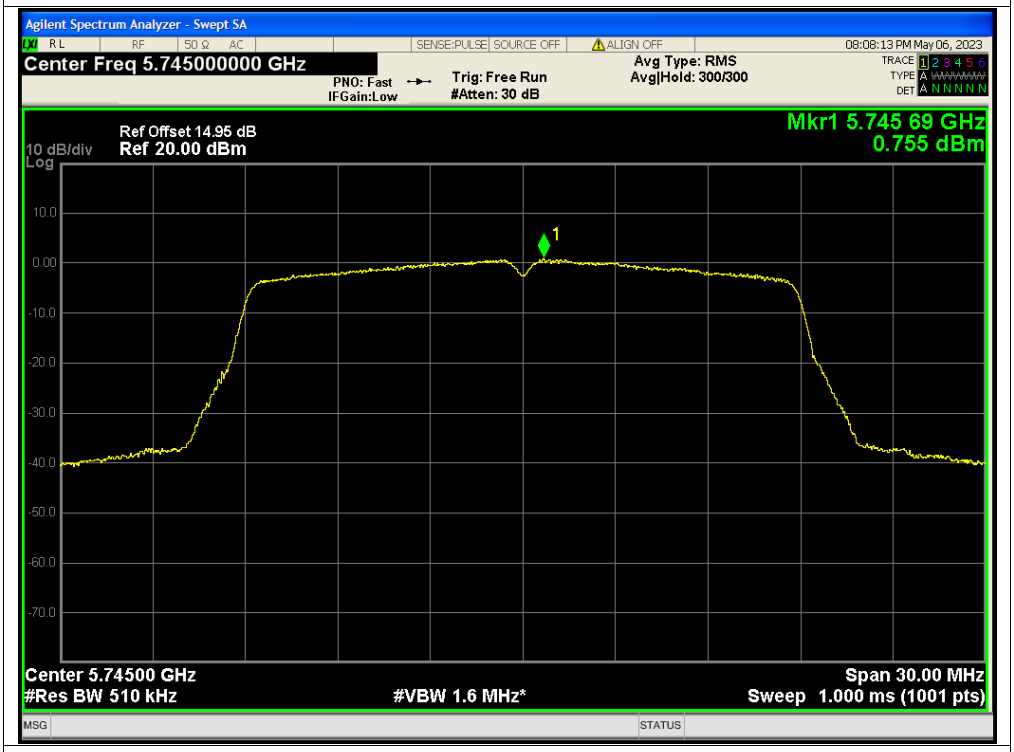
PSD NVNT ac20 5720MHz Ant0



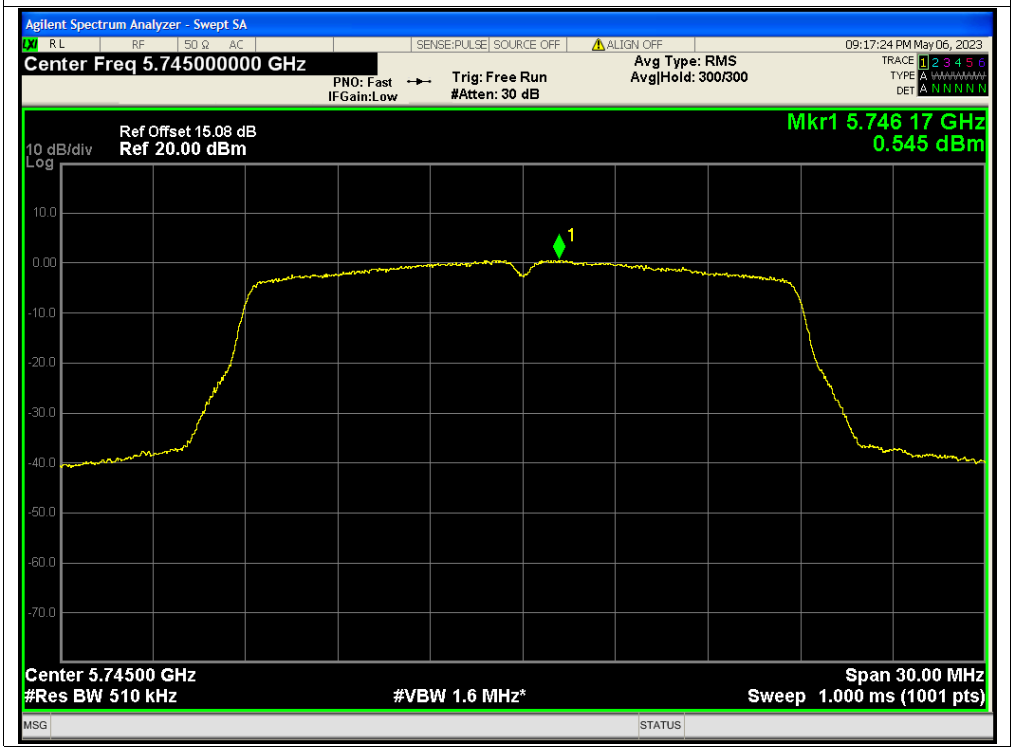
PSD NVNT ac20 5720MHz Ant1



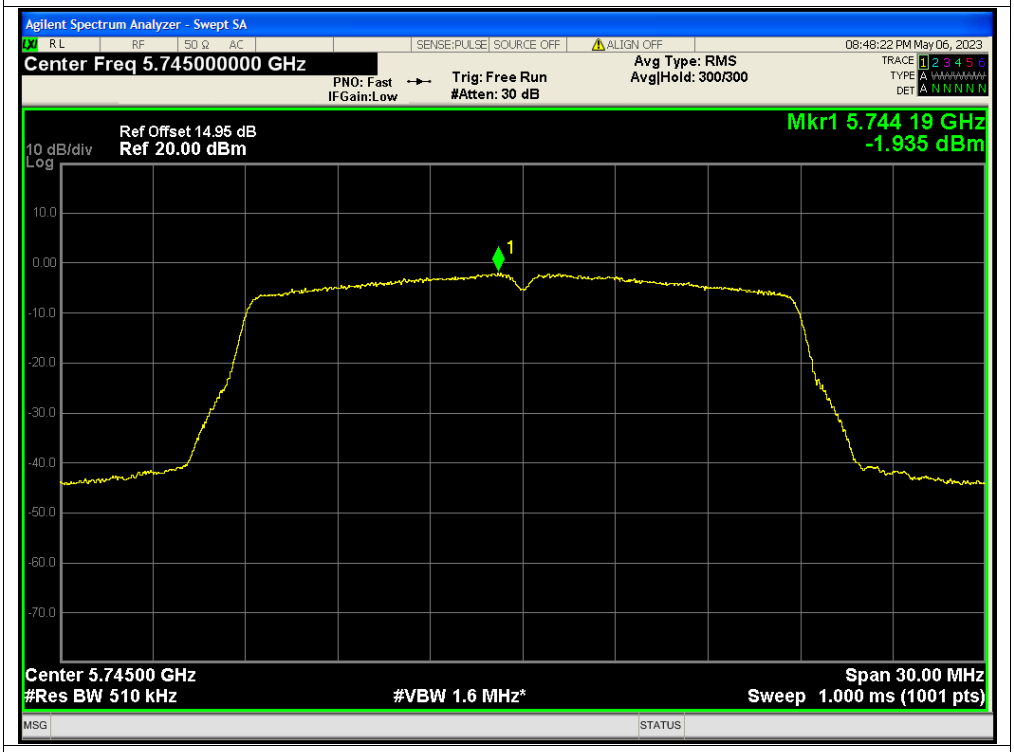
PSD NVNT ac20 5745MHz Ant0



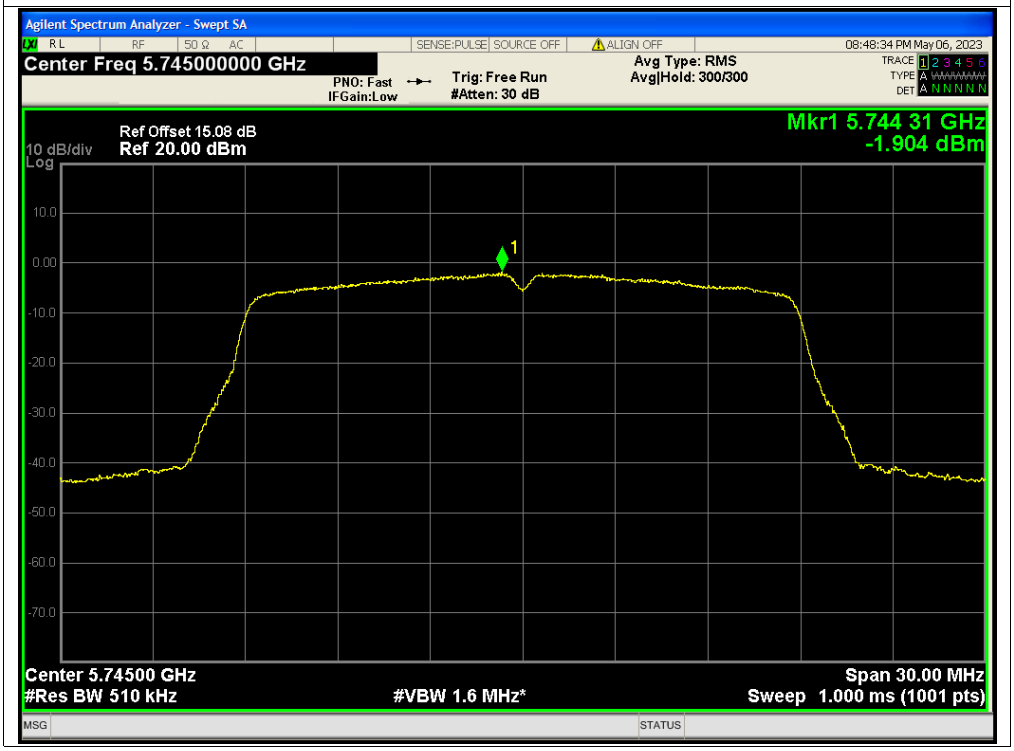
PSD NVNT ac20 5745MHz Ant1



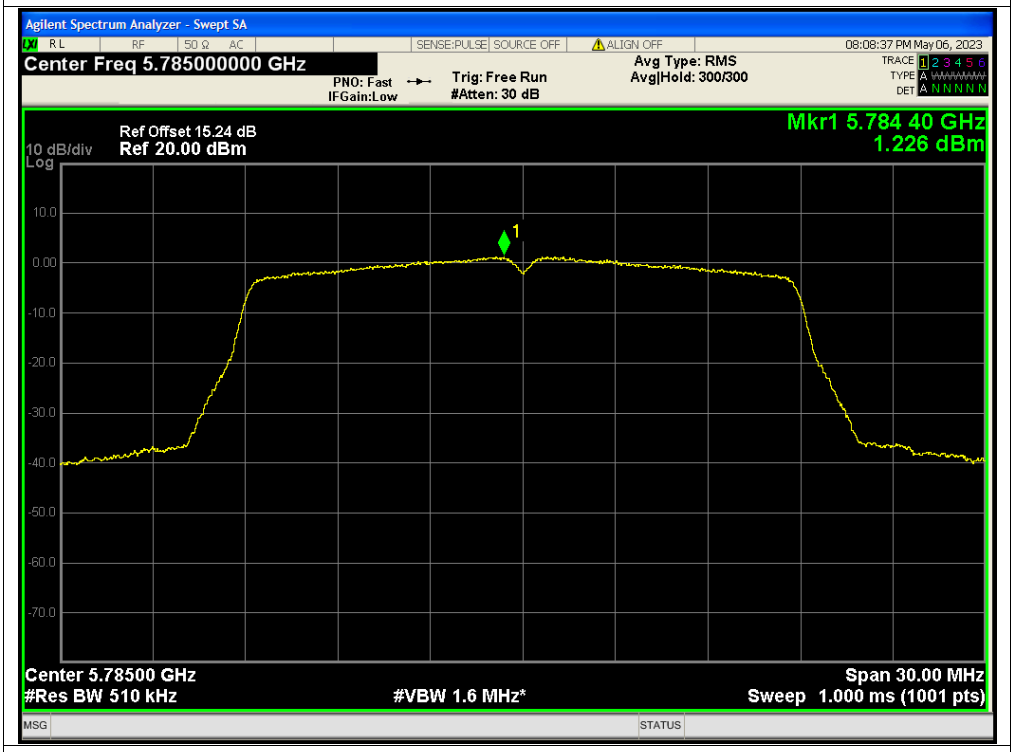
PSD NVNT ac20 5745MHz Ant0



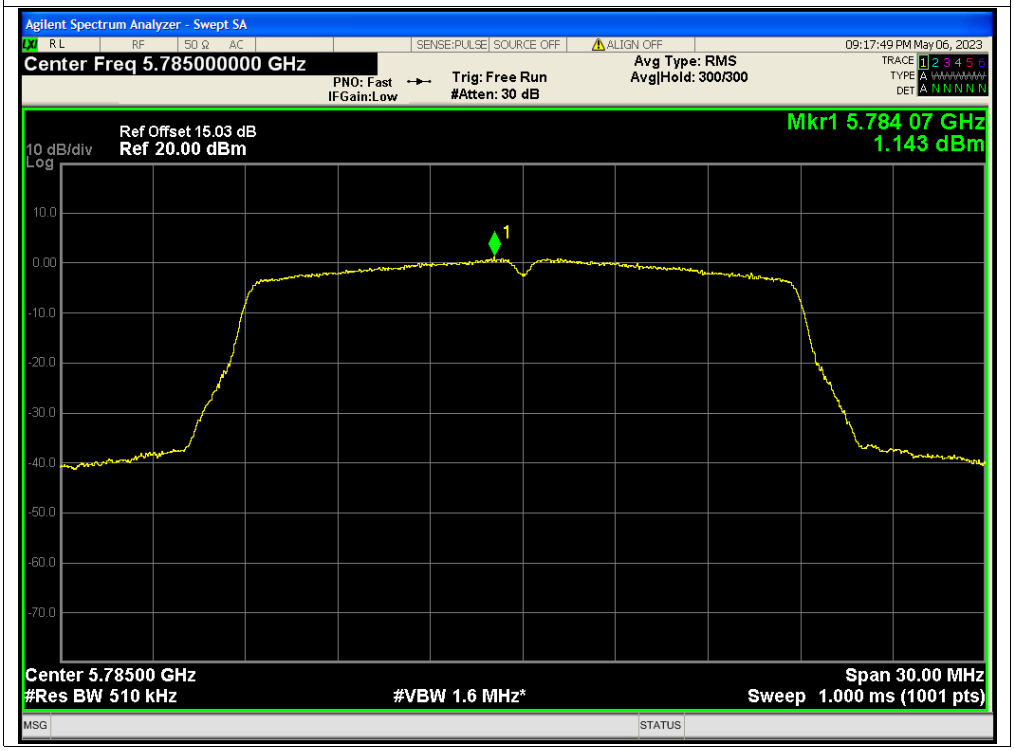
PSD NVNT ac20 5745MHz Ant1



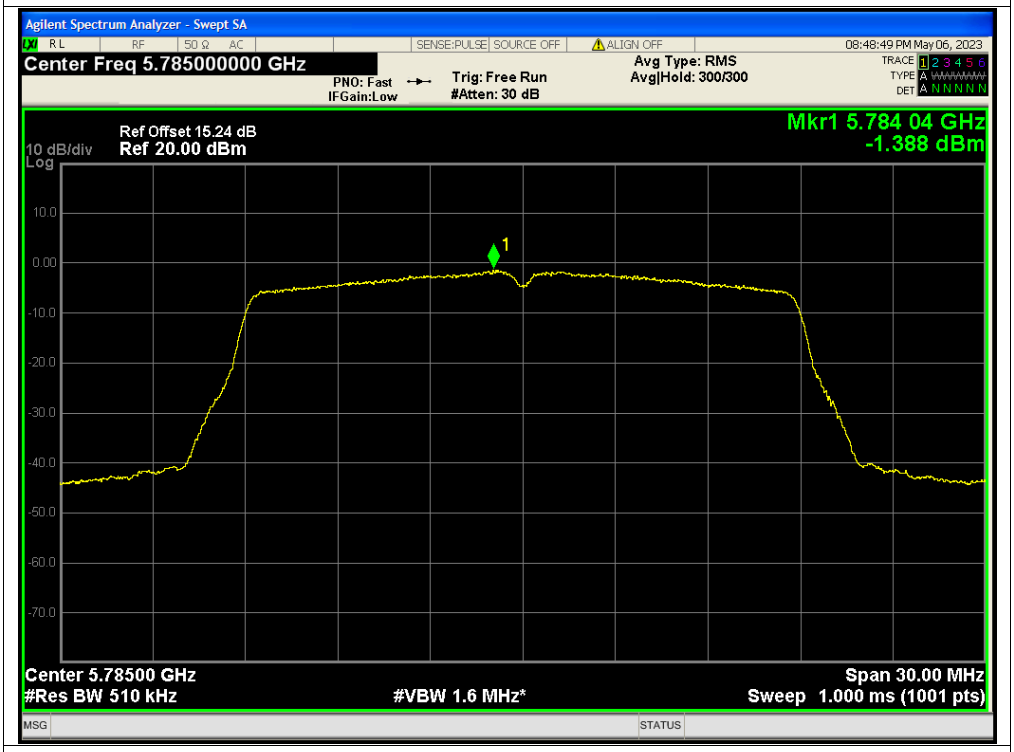
PSD NVNT ac20 5785MHz Ant0



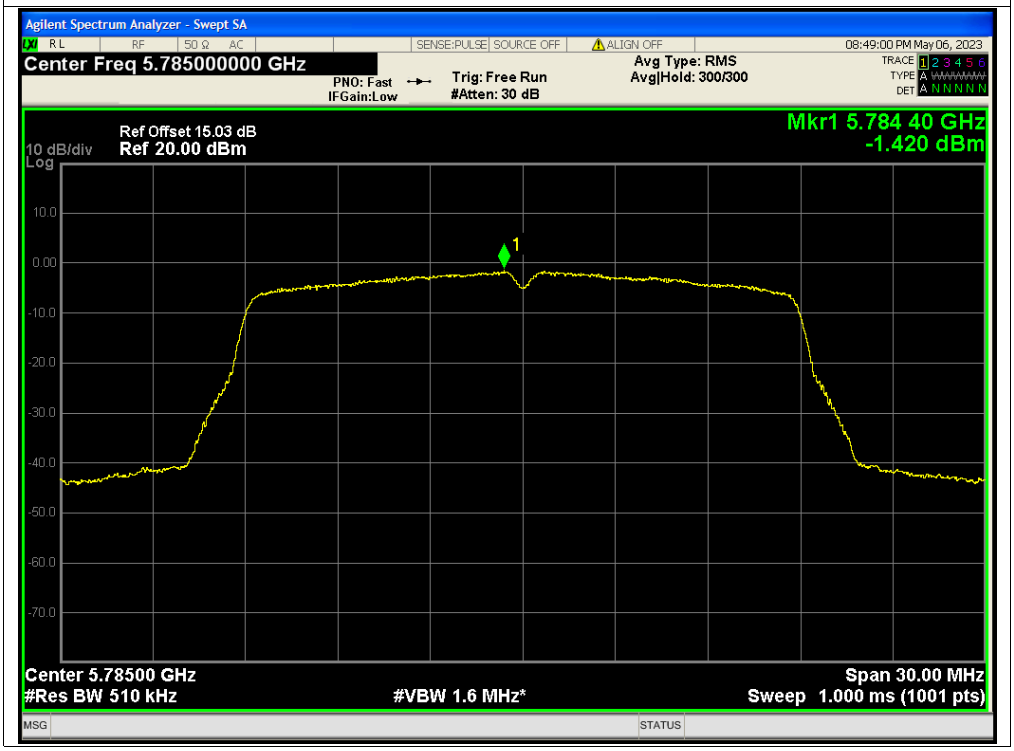
PSD NVNT ac20 5785MHz Ant1



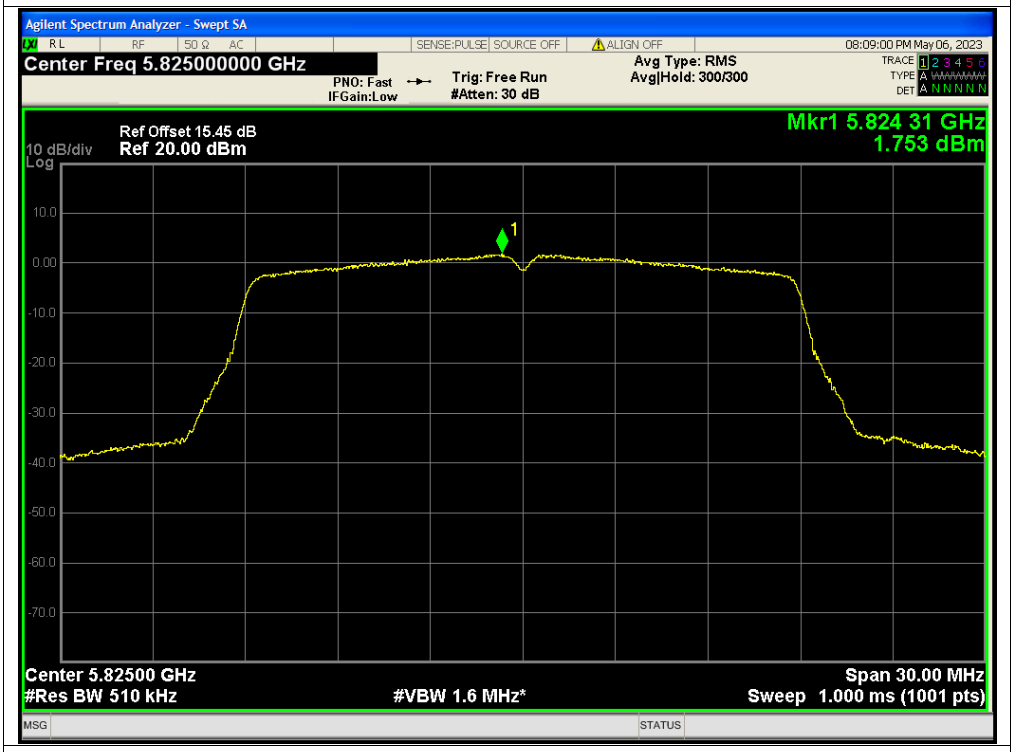
PSD NVNT ac20 5785MHz Ant0



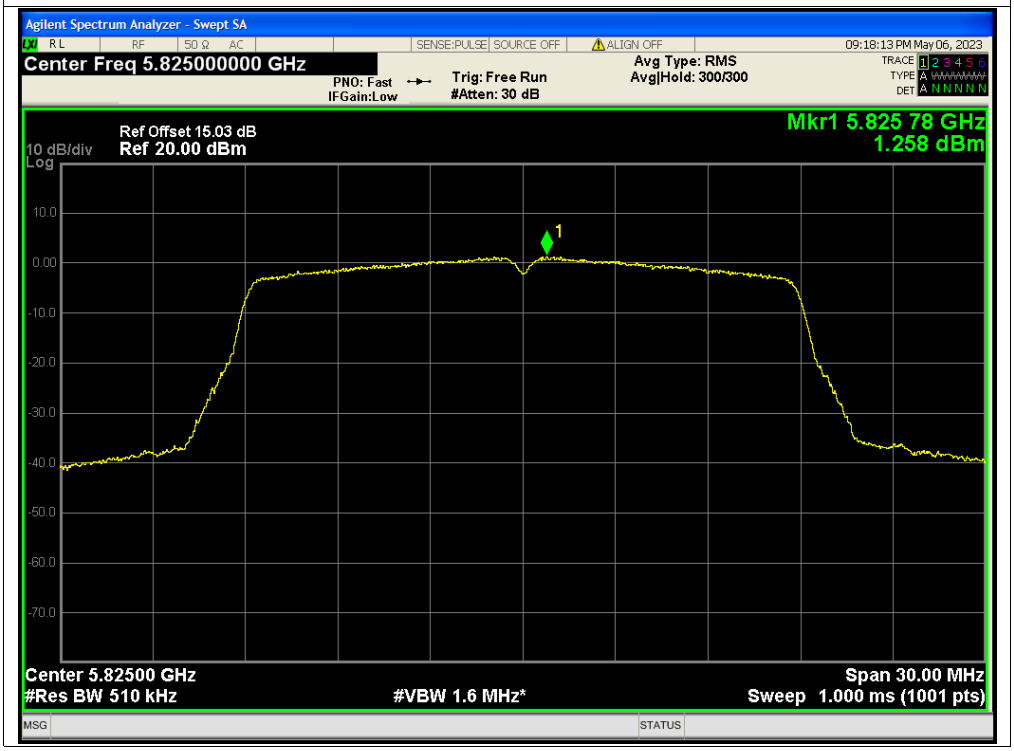
PSD NVNT ac20 5785MHz Ant1



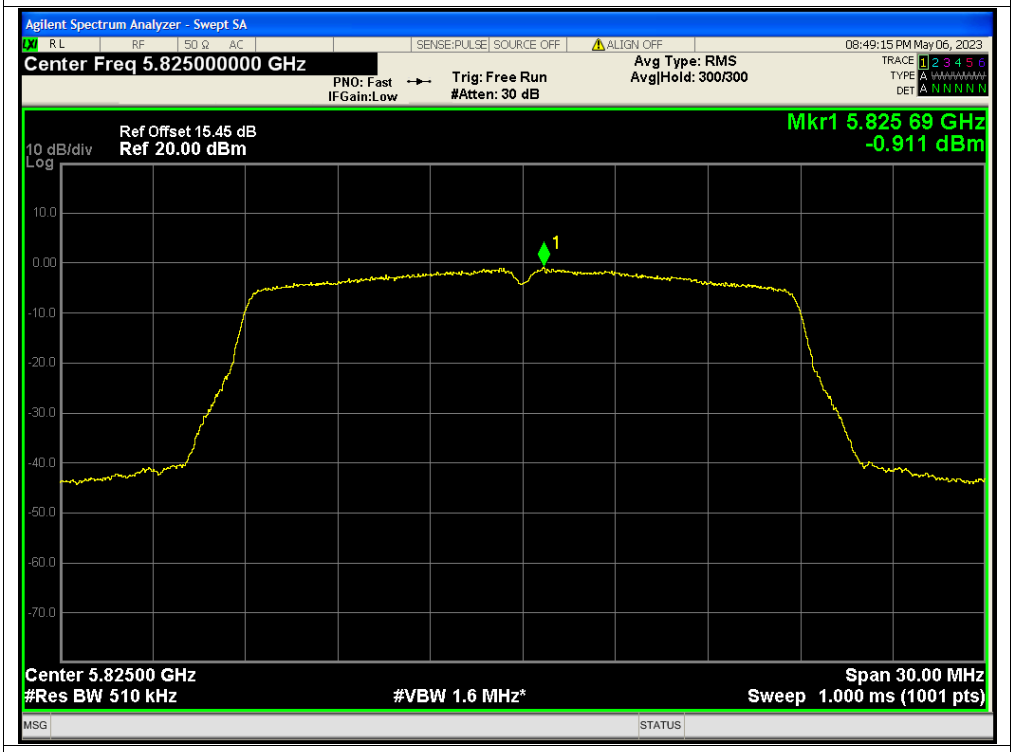
PSD NVNT ac20 5825MHz Ant0



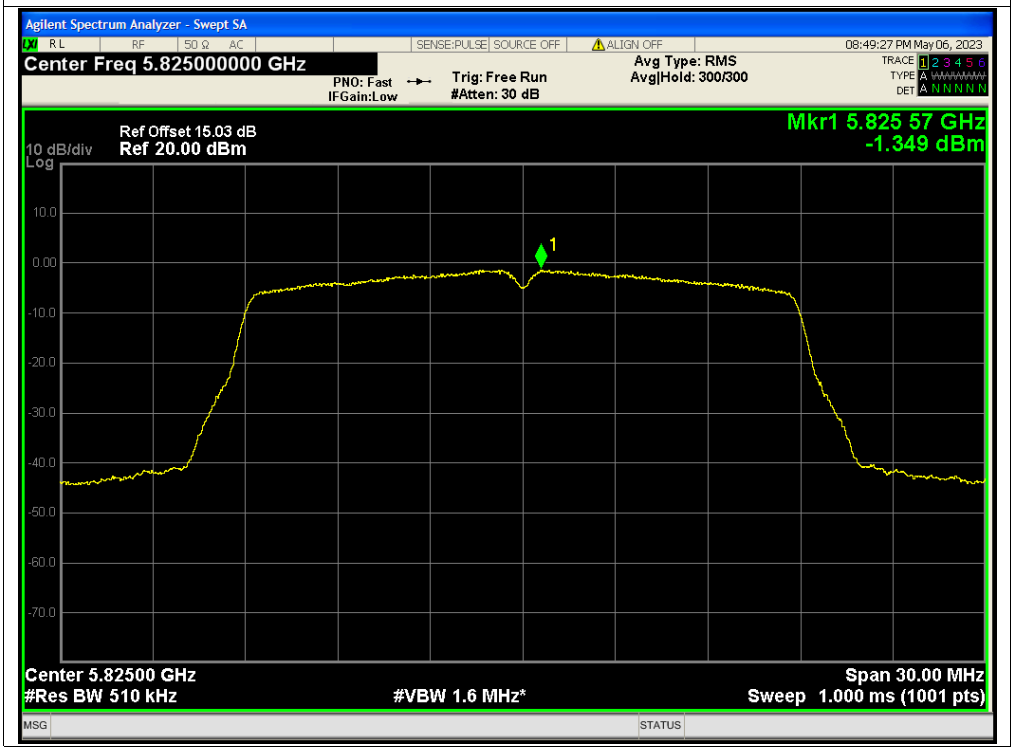
PSD NVNT ac20 5825MHz Ant1



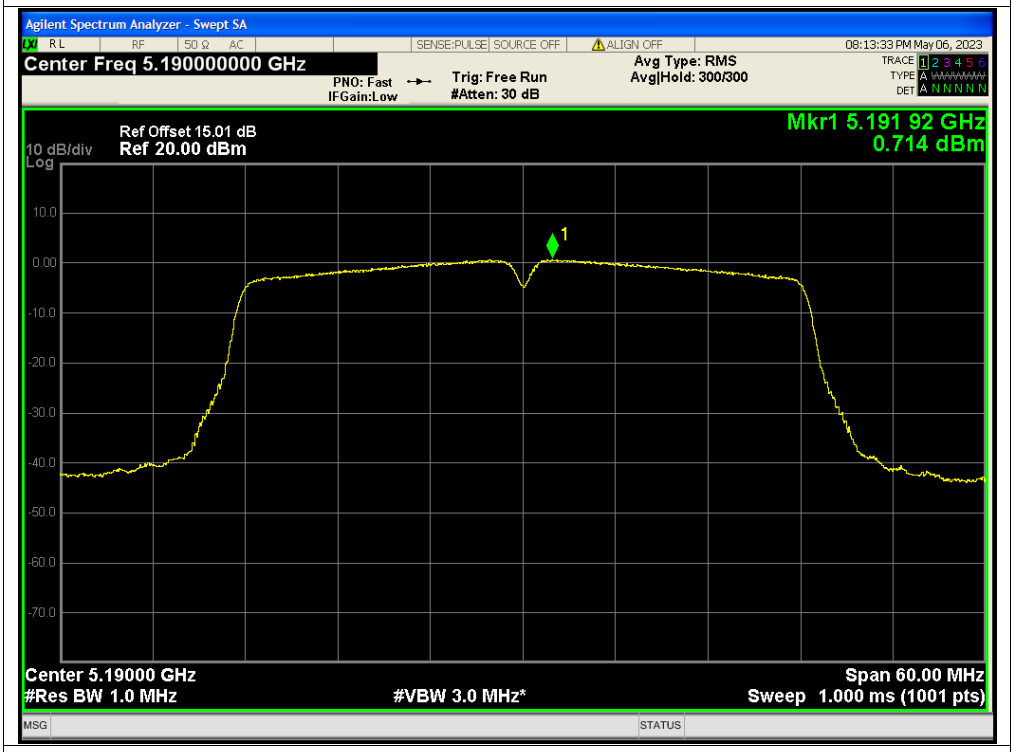
PSD NVNT ac20 5825MHz Ant0



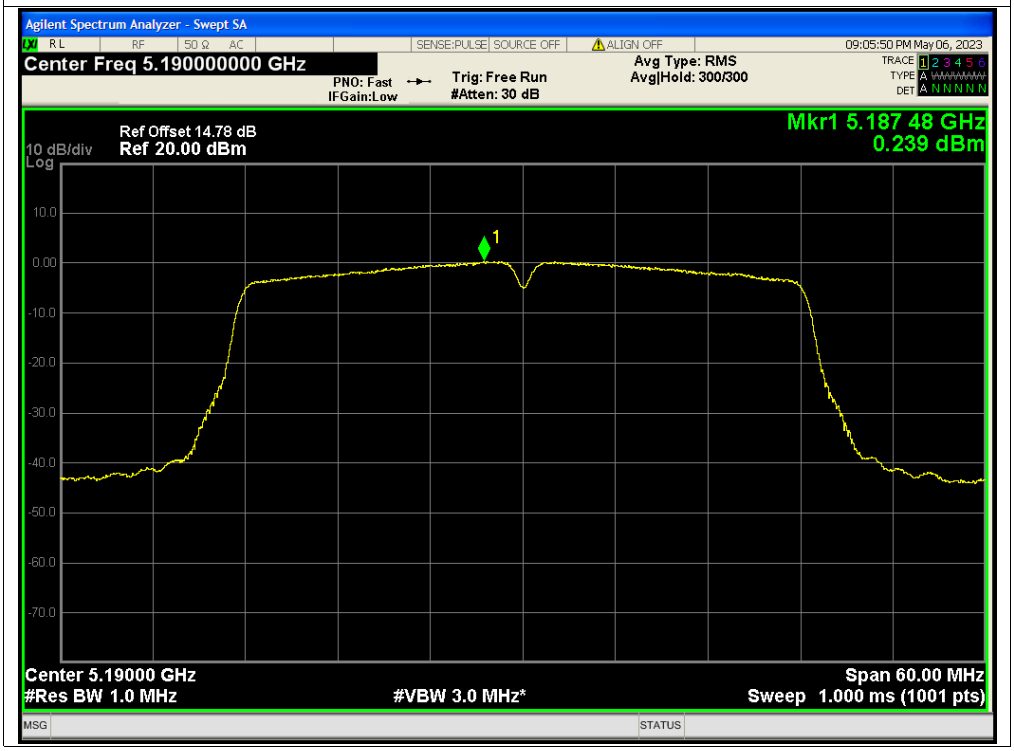
PSD NVNT ac20 5825MHz Ant1



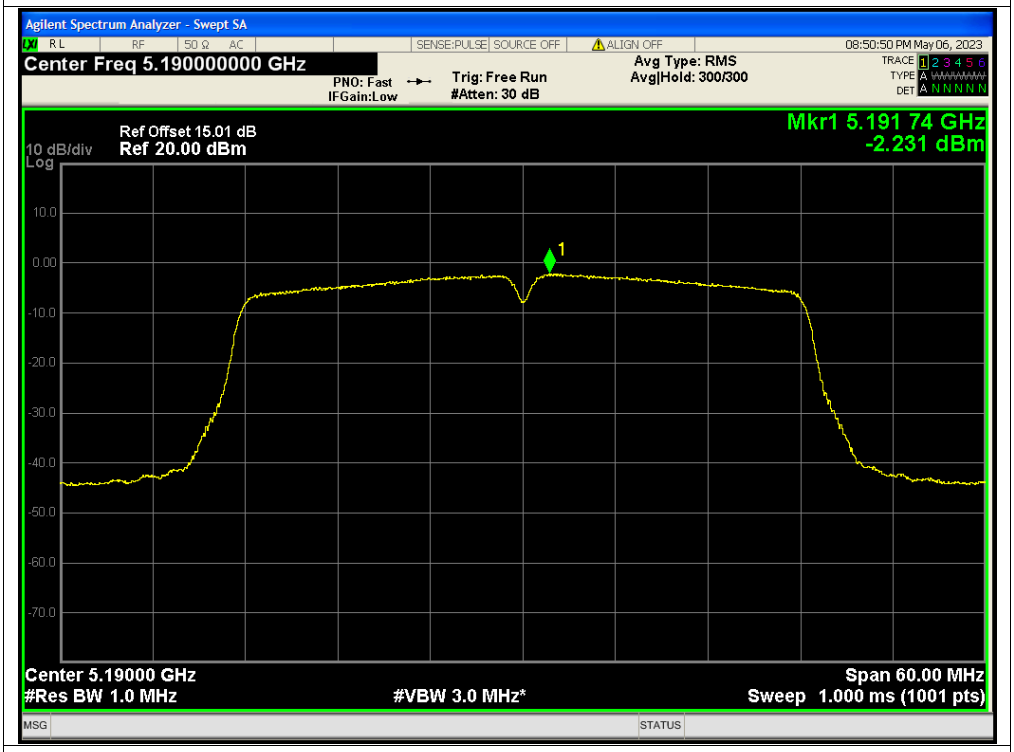
PSD NVNT ac40 5190MHz Ant0



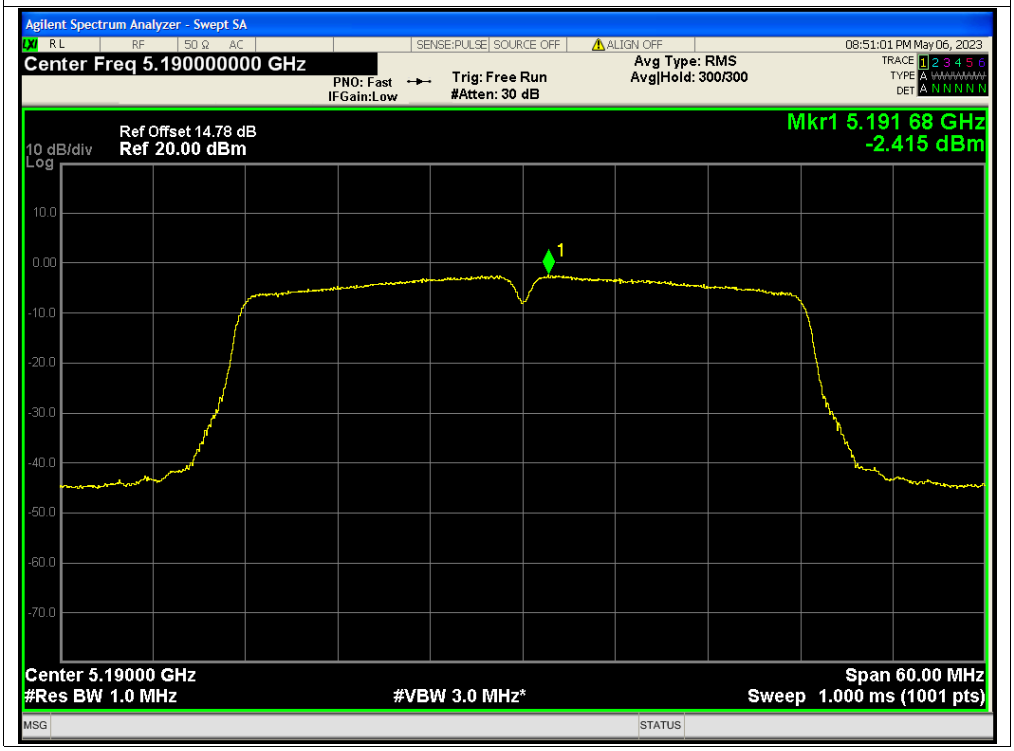
PSD NVNT ac40 5190MHz Ant1



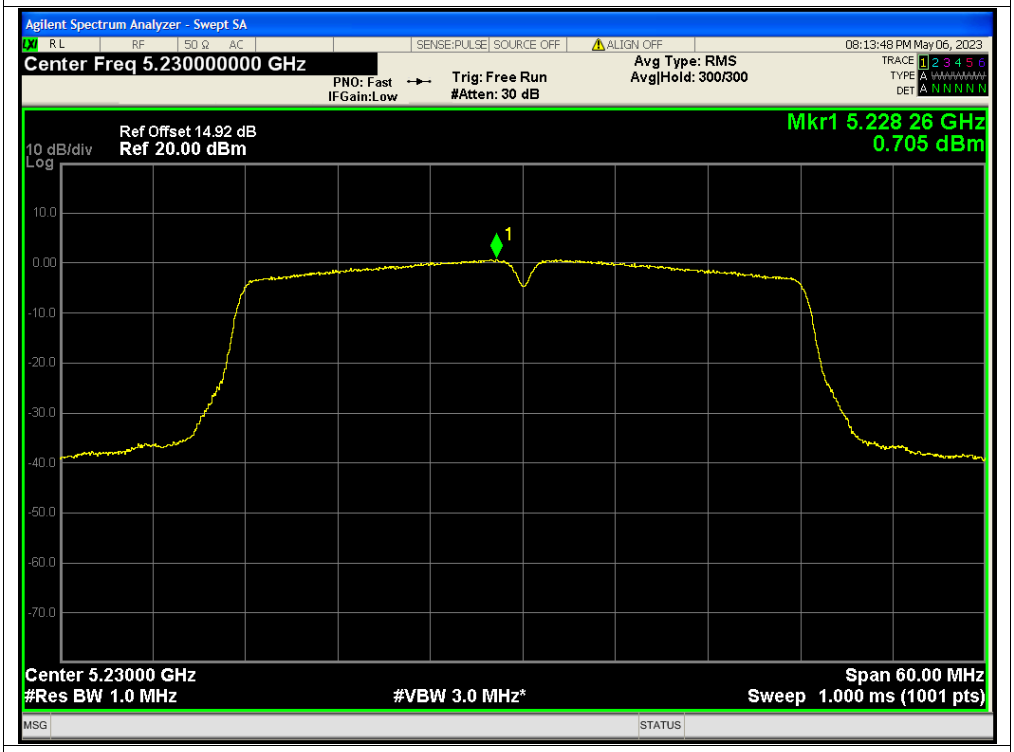
PSD NVNT ac40 5190MHz Ant0



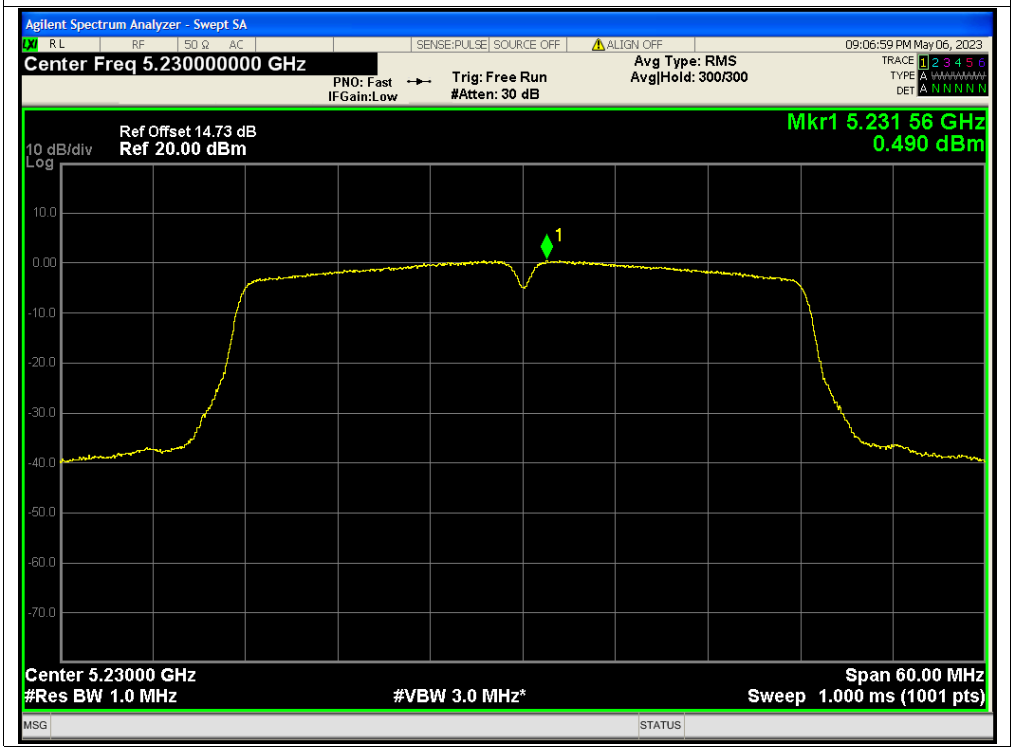
PSD NVNT ac40 5190MHz Ant1



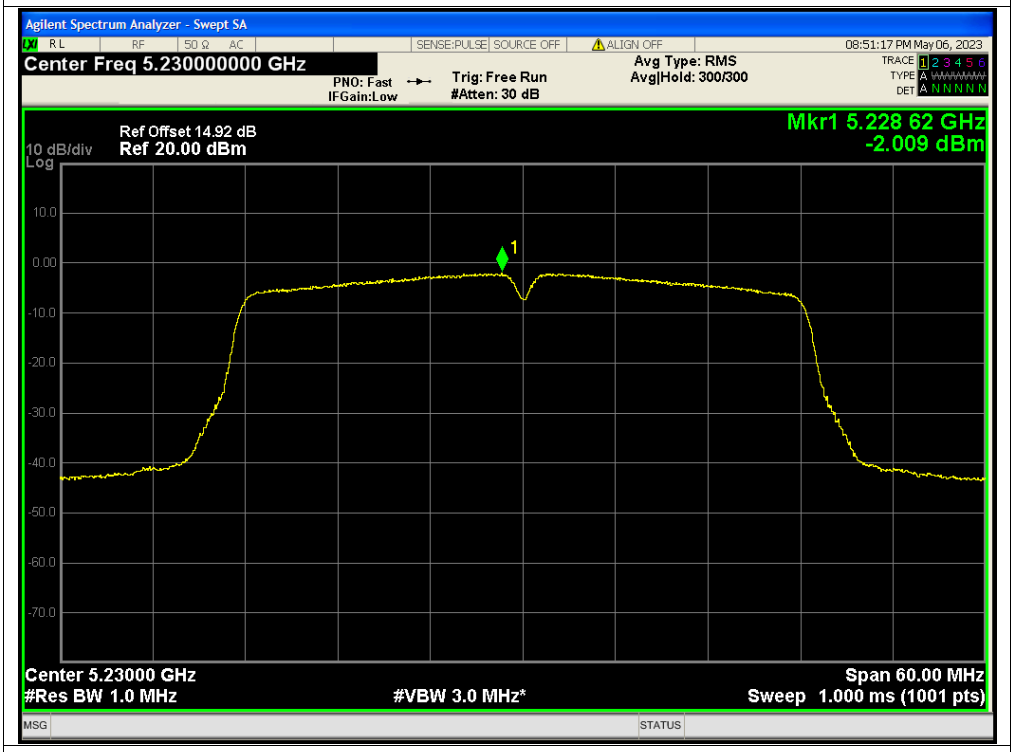
PSD NVNT ac40 5230MHz Ant0



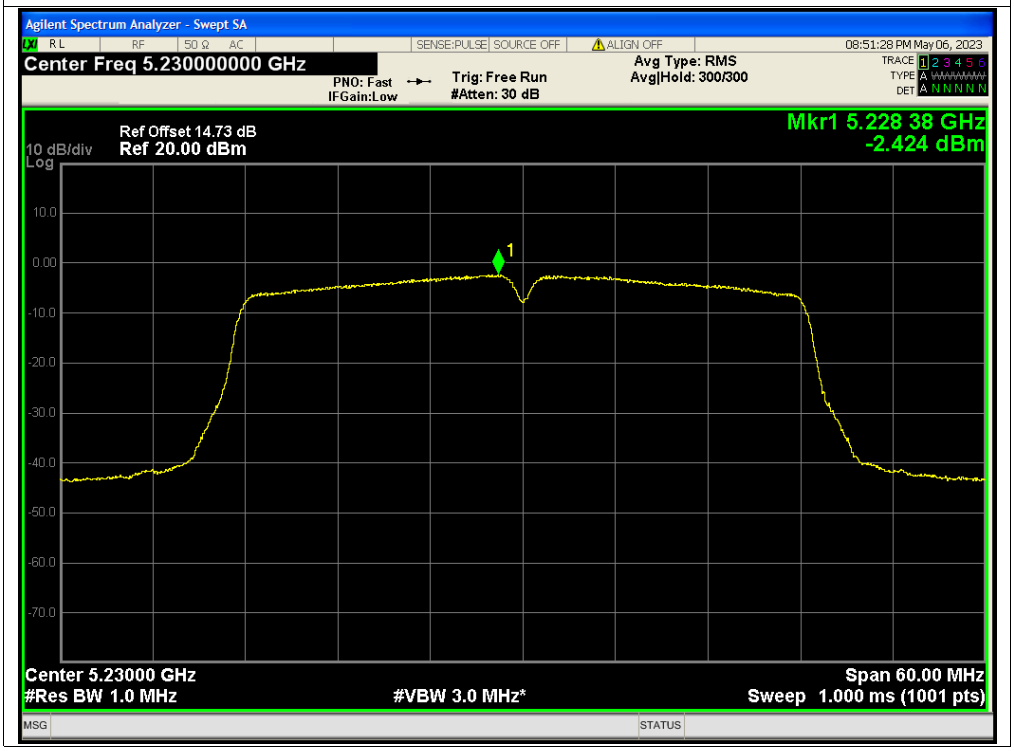
PSD NVNT ac40 5230MHz Ant1



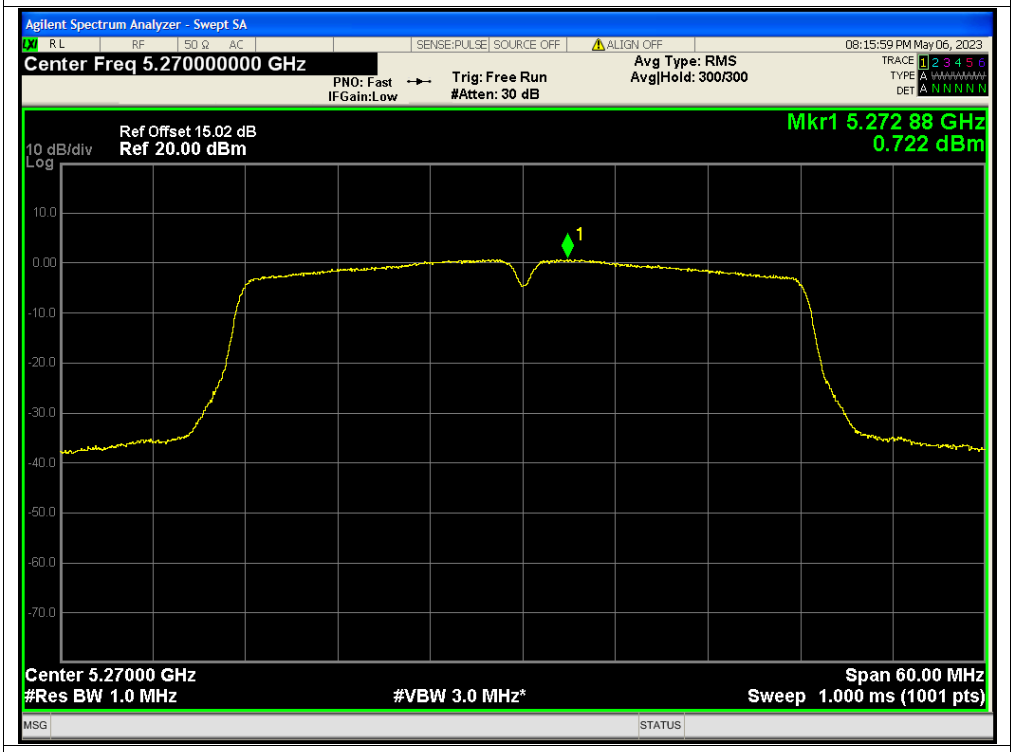
PSD NVNT ac40 5230MHz Ant0



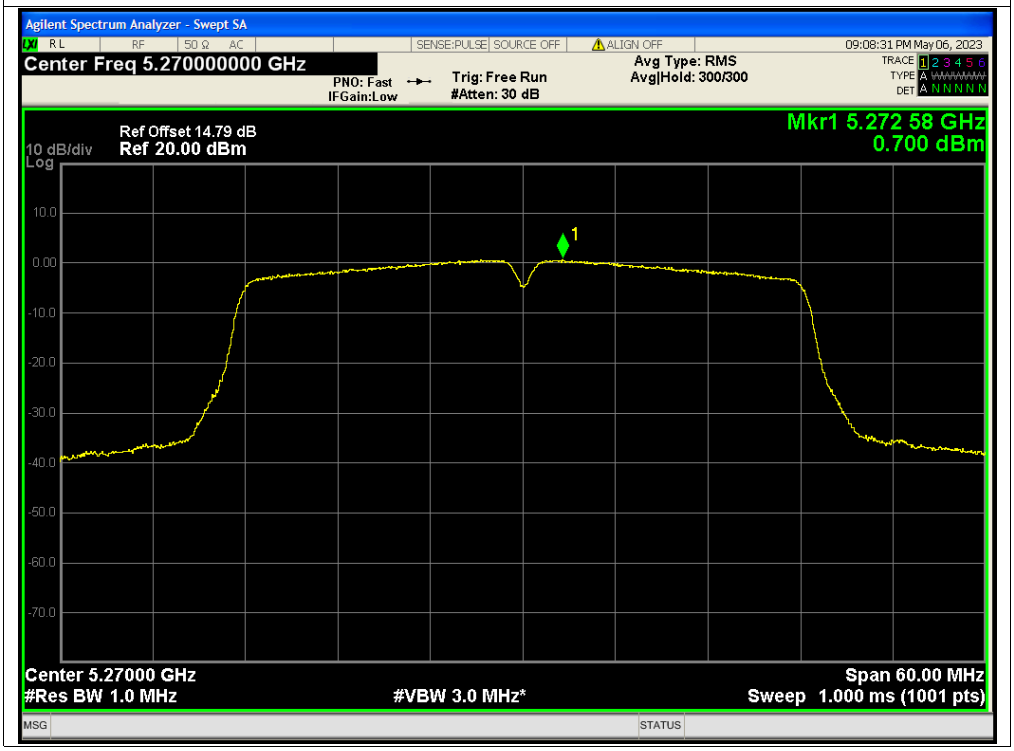
PSD NVNT ac40 5230MHz Ant1



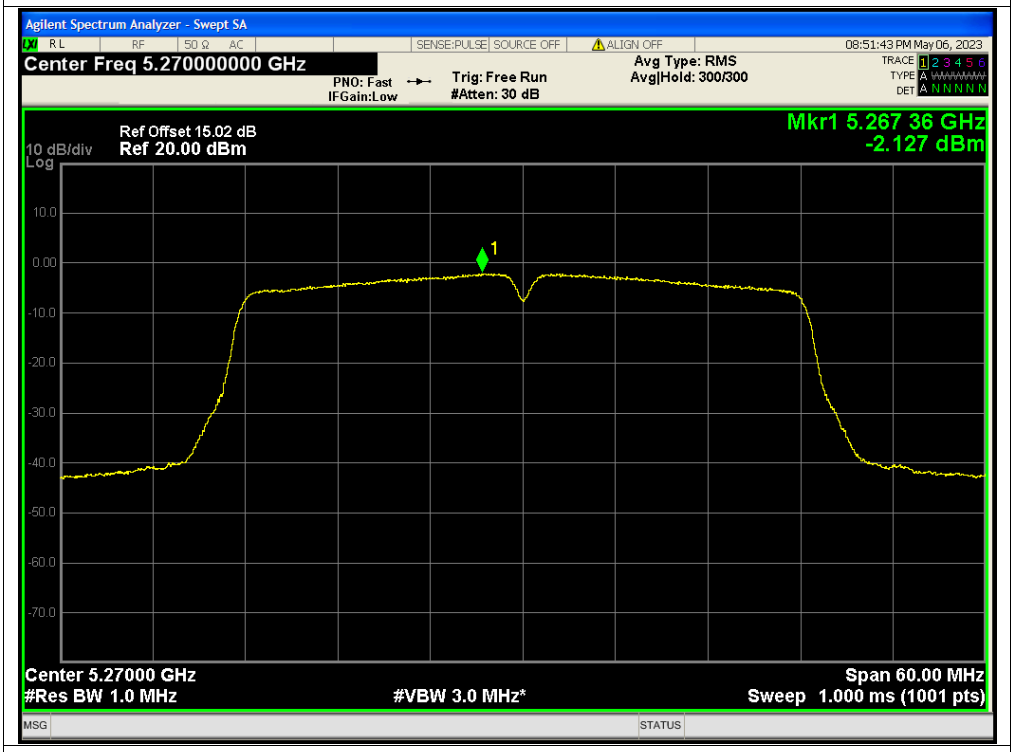
PSD NVNT ac40 5270MHz Ant0



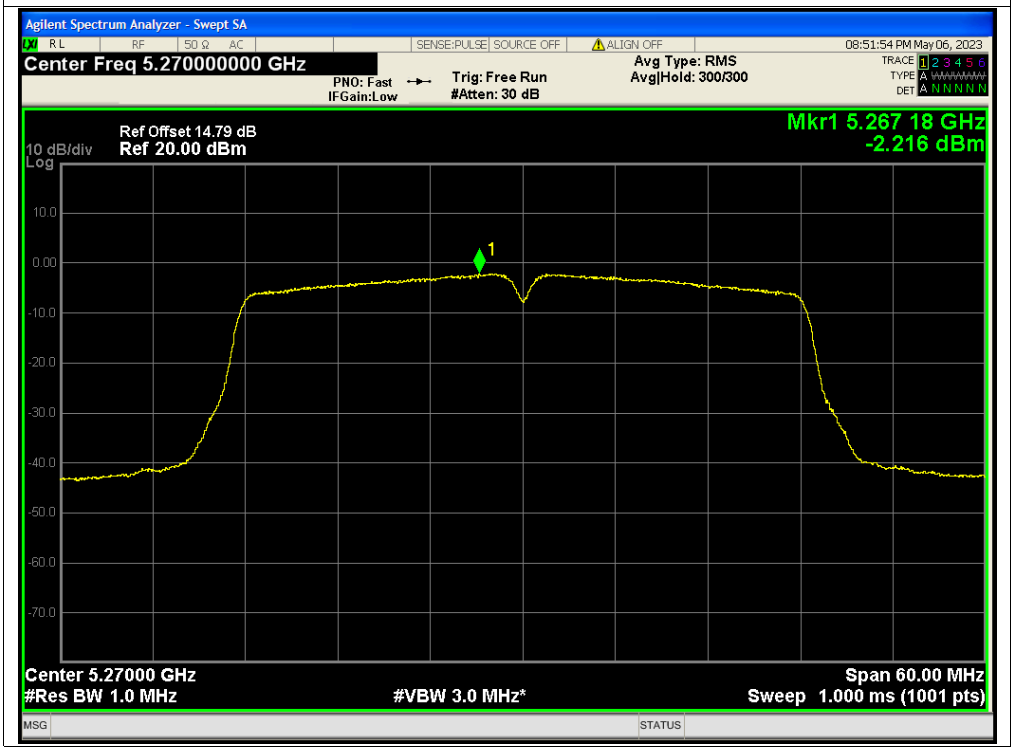
PSD NVNT ac40 5270MHz Ant1



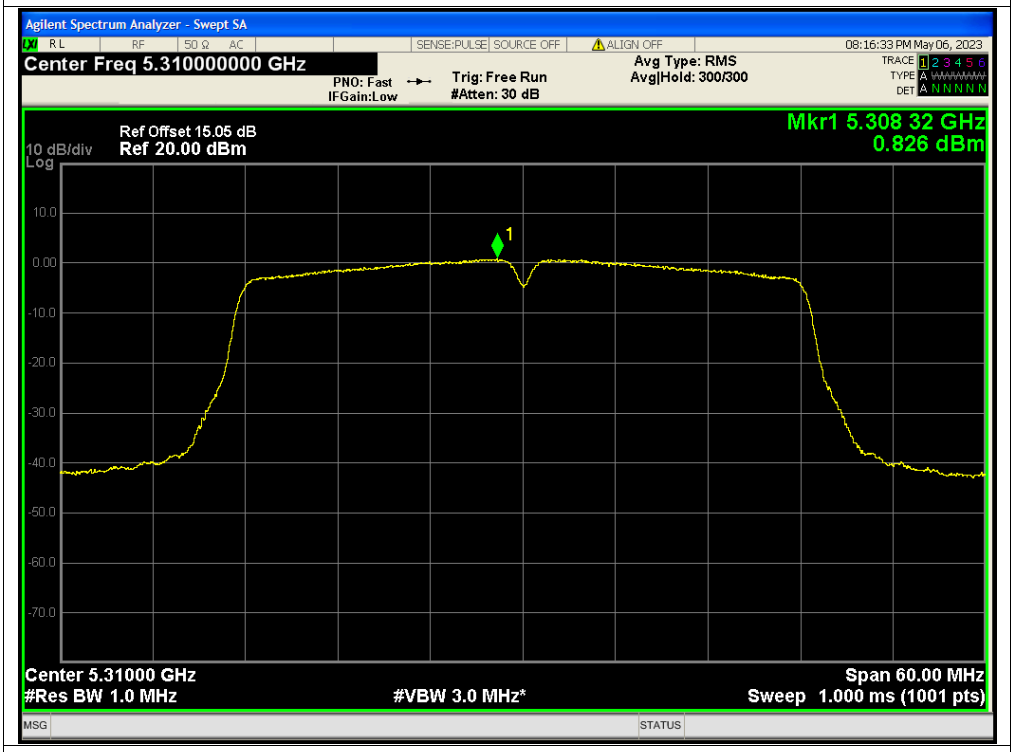
PSD NVNT ac40 5270MHz Ant0



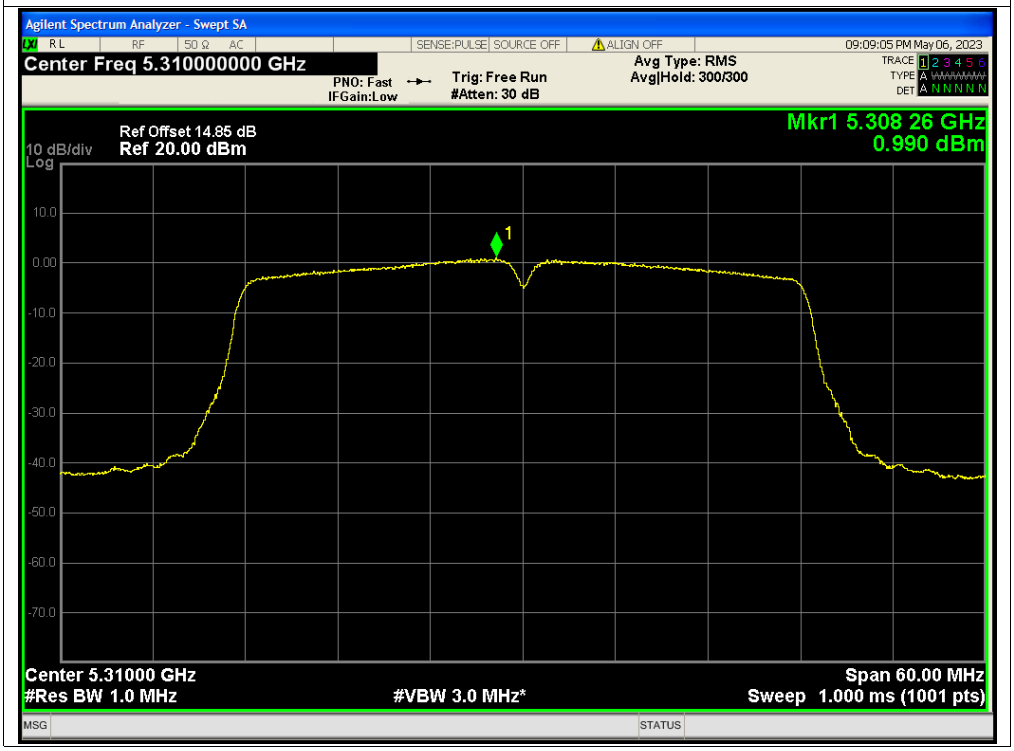
PSD NVNT ac40 5270MHz Ant1



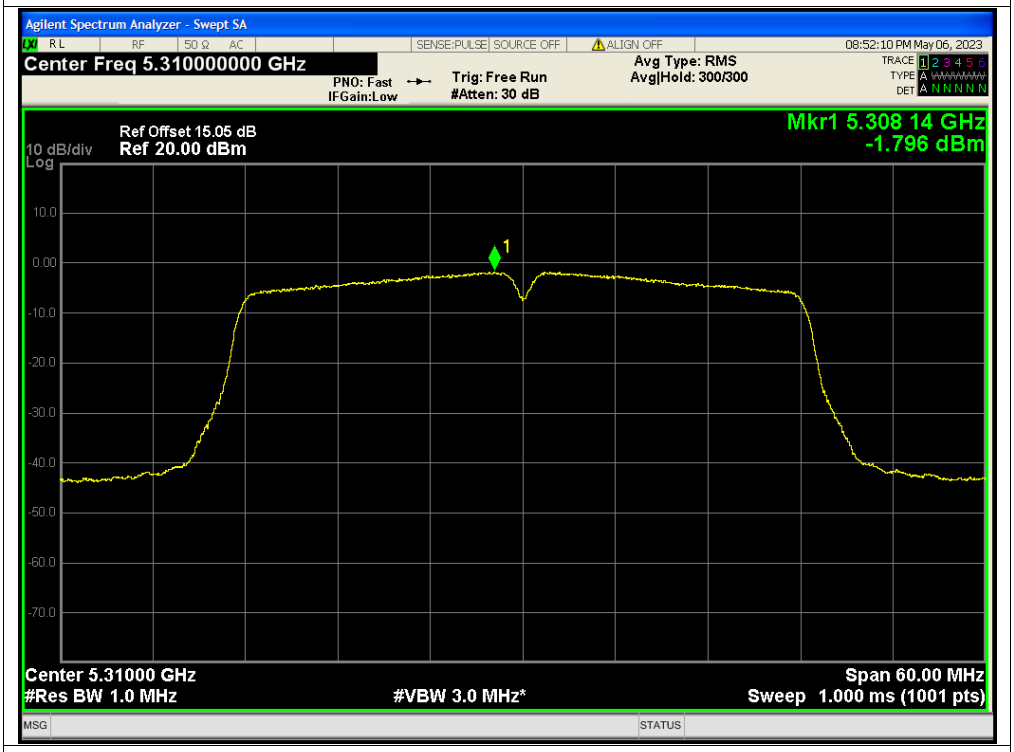
PSD NVNT ac40 5310MHz Ant0



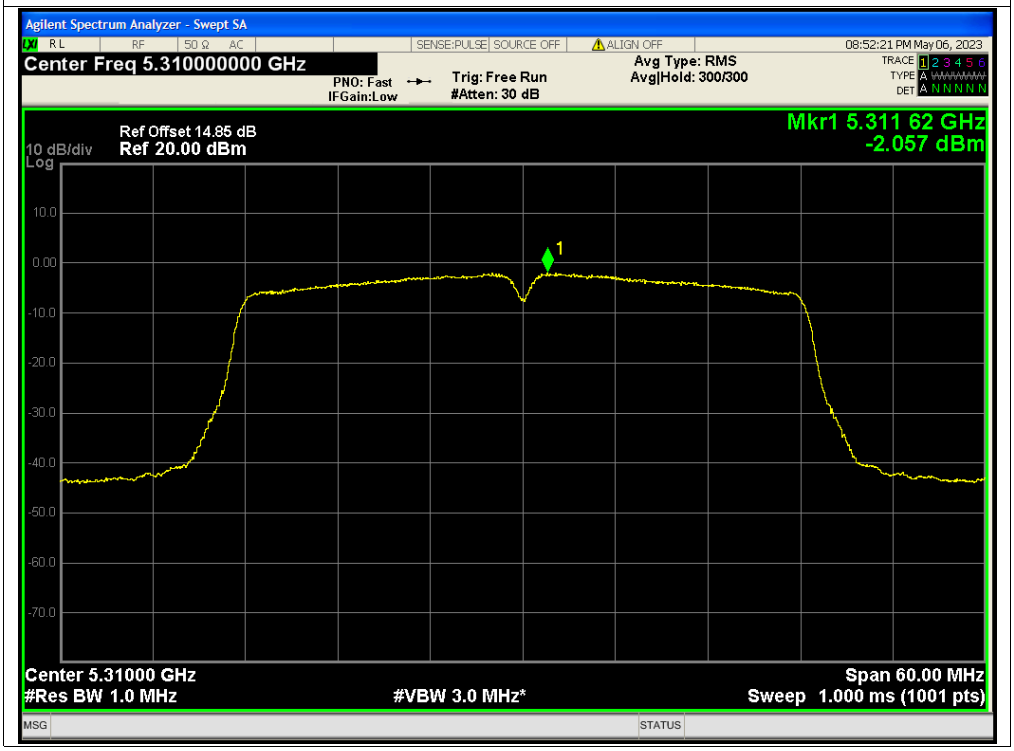
PSD NVNT ac40 5310MHz Ant1



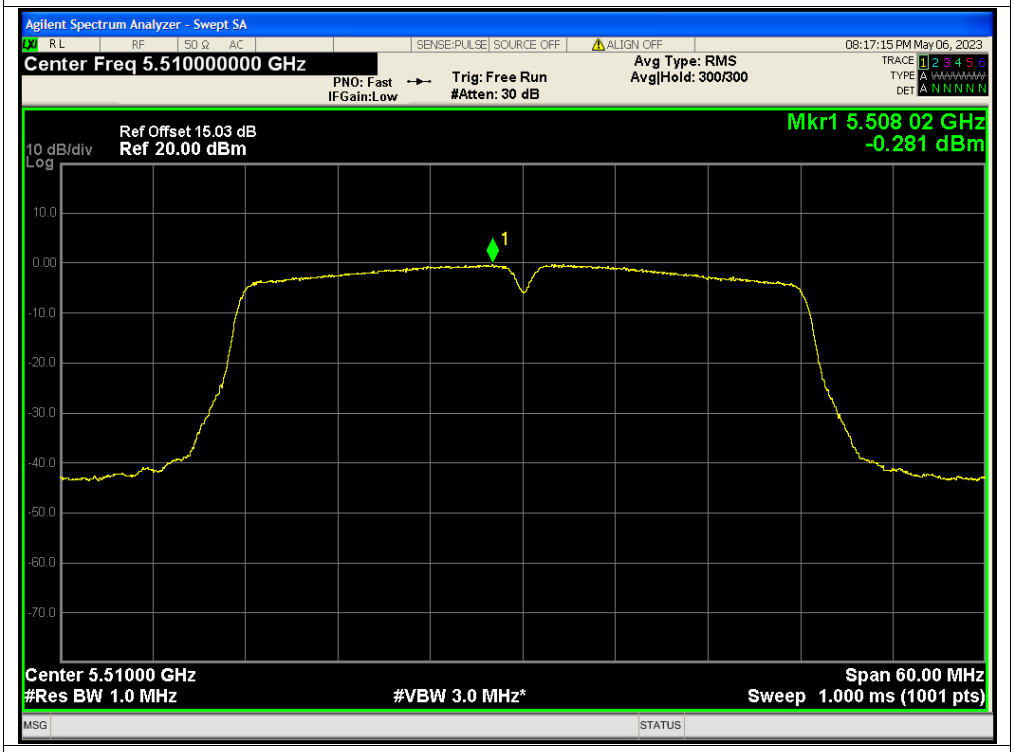
PSD NVNT ac40 5310MHz Ant0



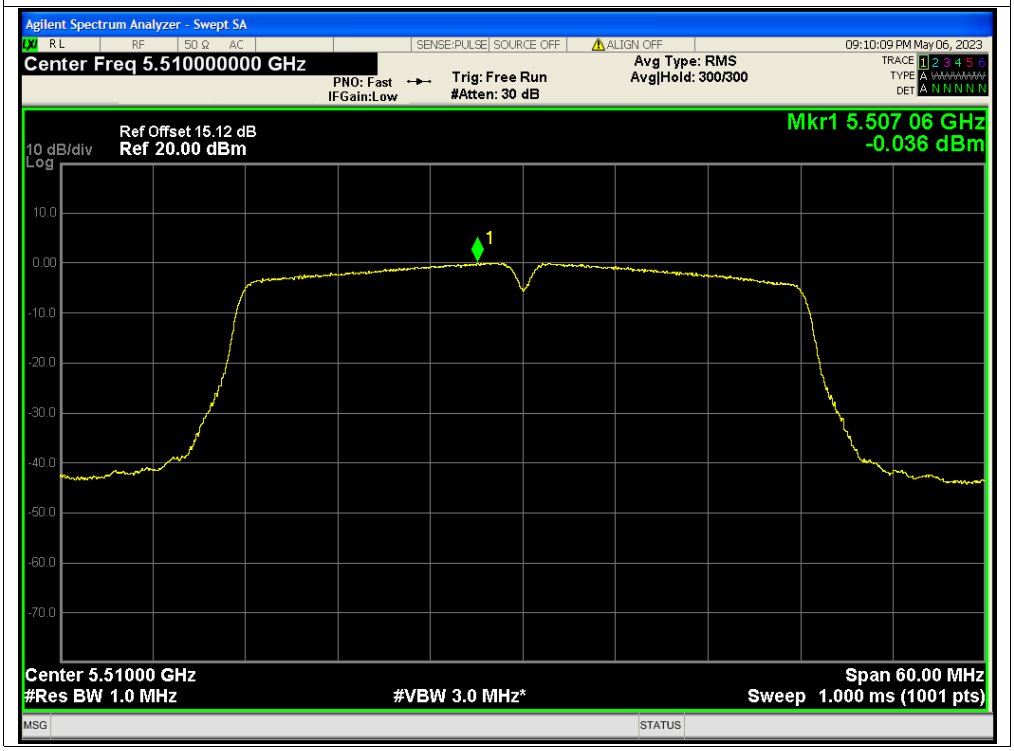
PSD NVNT ac40 5310MHz Ant1



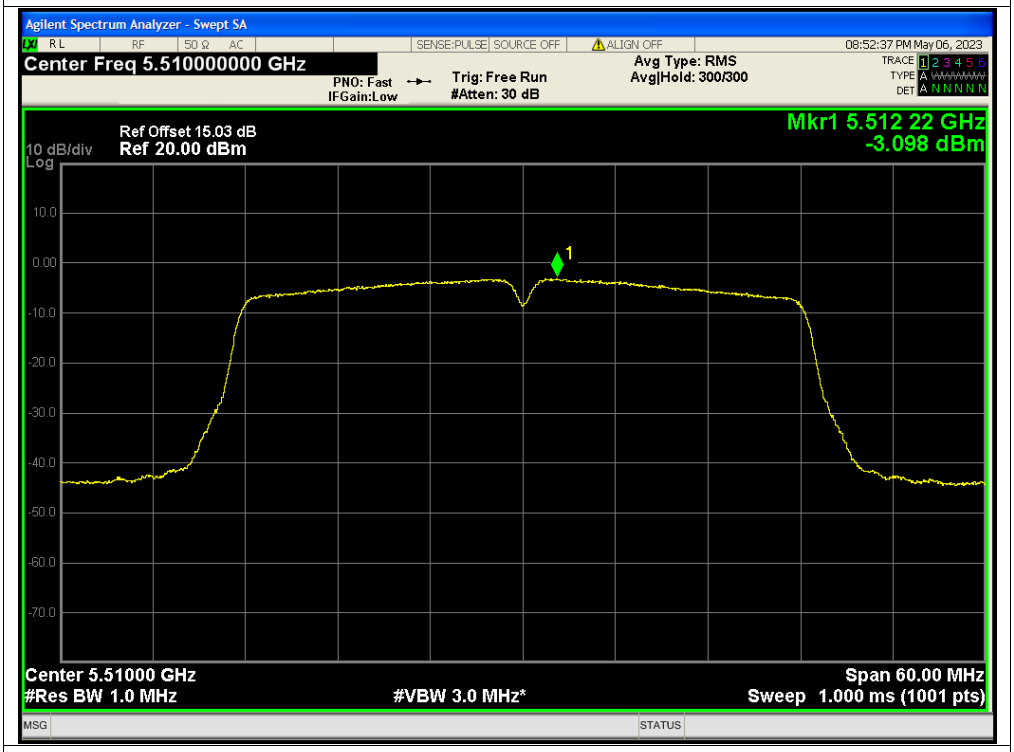
PSD NVNT ac40 5510MHz Ant0



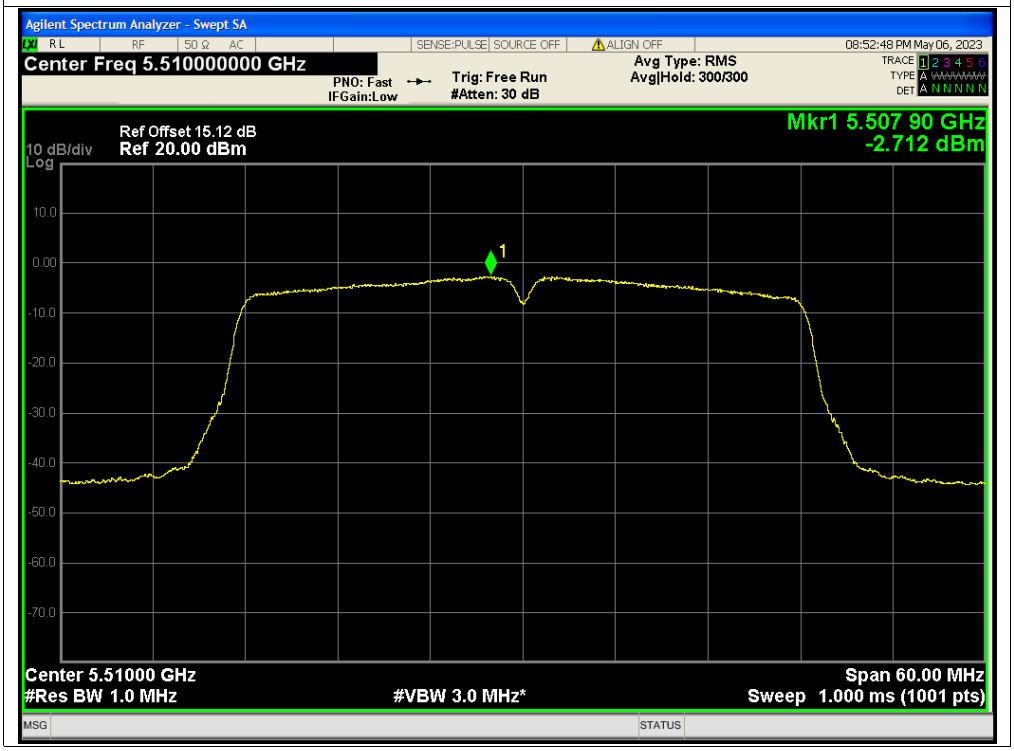
PSD NVNT ac40 5510MHz Ant1



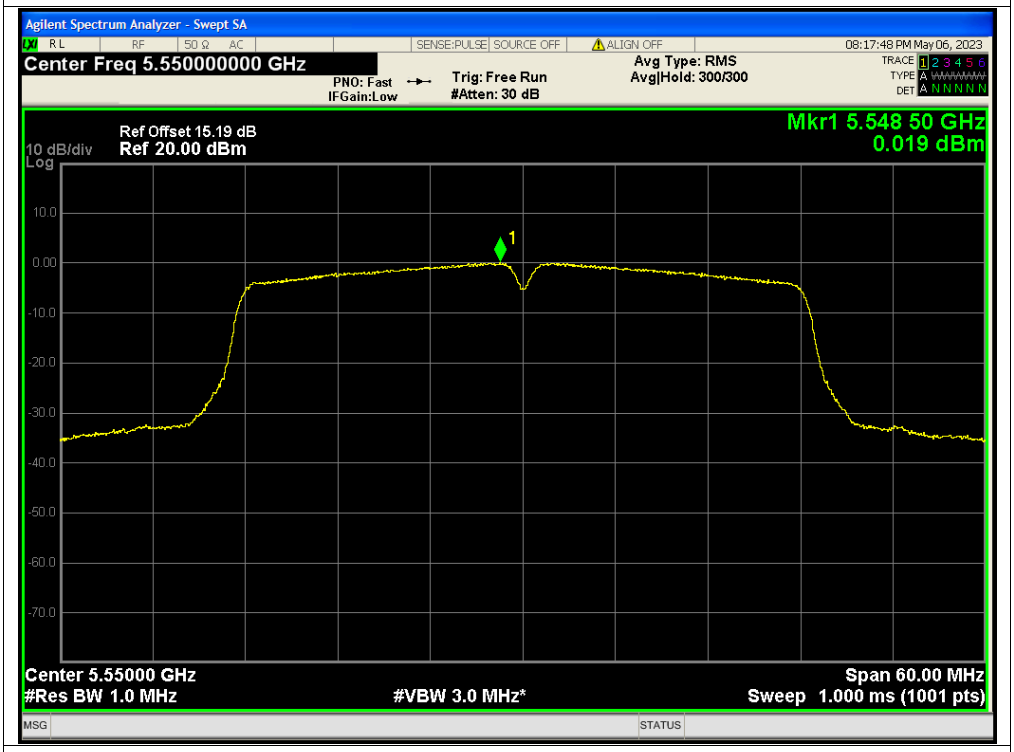
PSD NVNT ac40 5510MHz Ant0



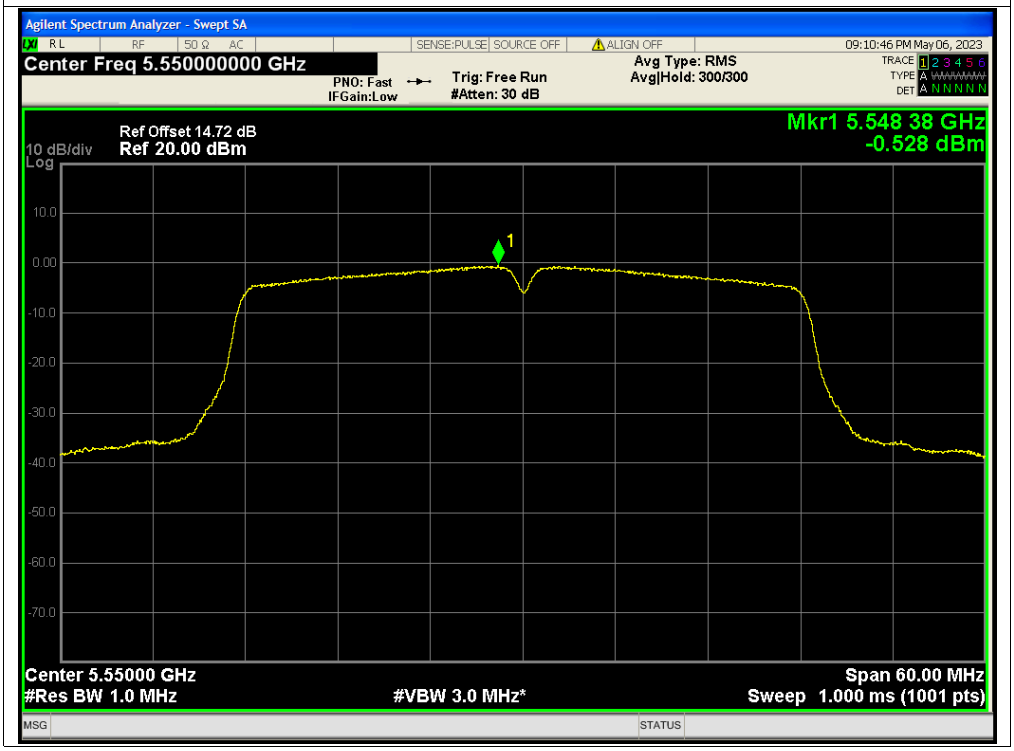
PSD NVNT ac40 5510MHz Ant1



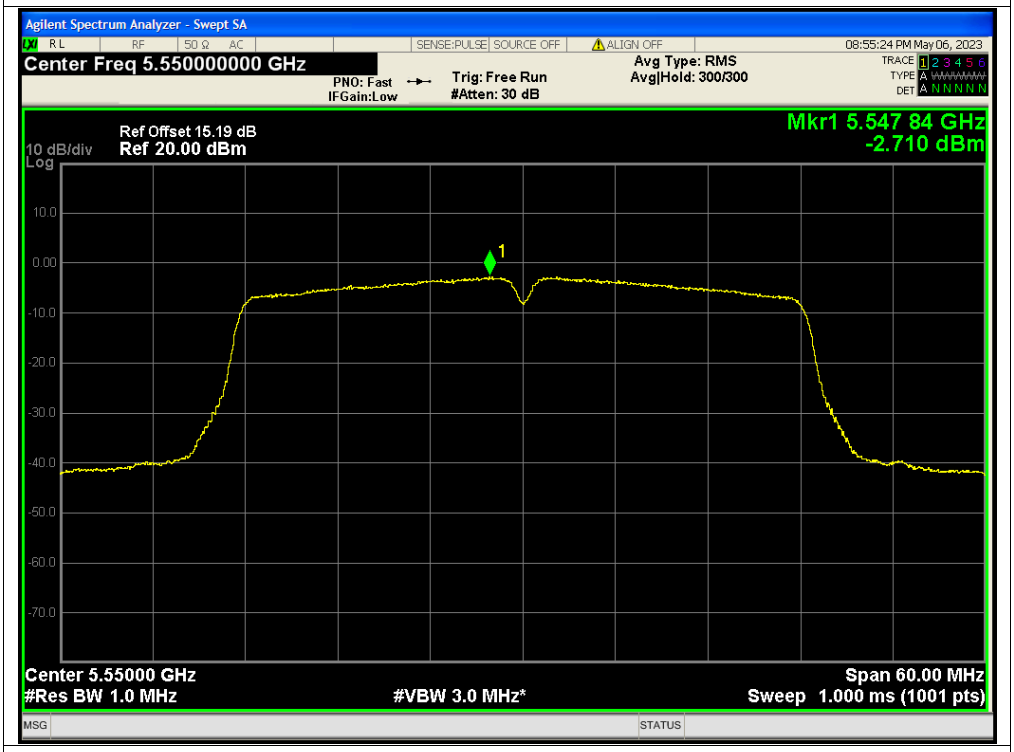
PSD NVNT ac40 5550MHz Ant0



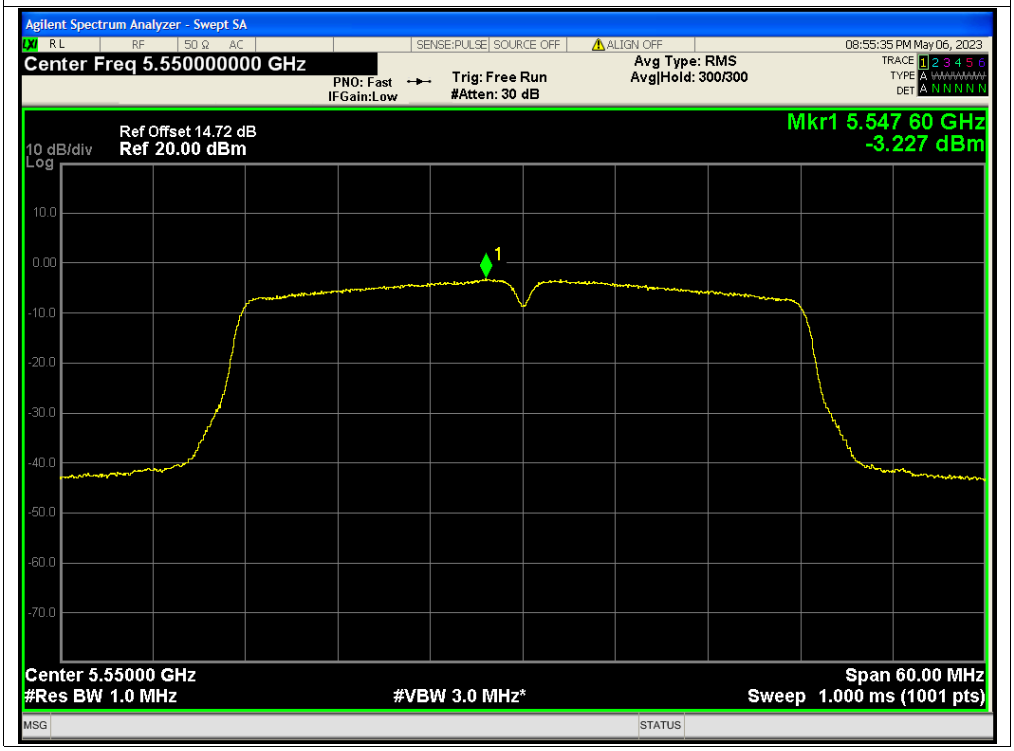
PSD NVNT ac40 5550MHz Ant1



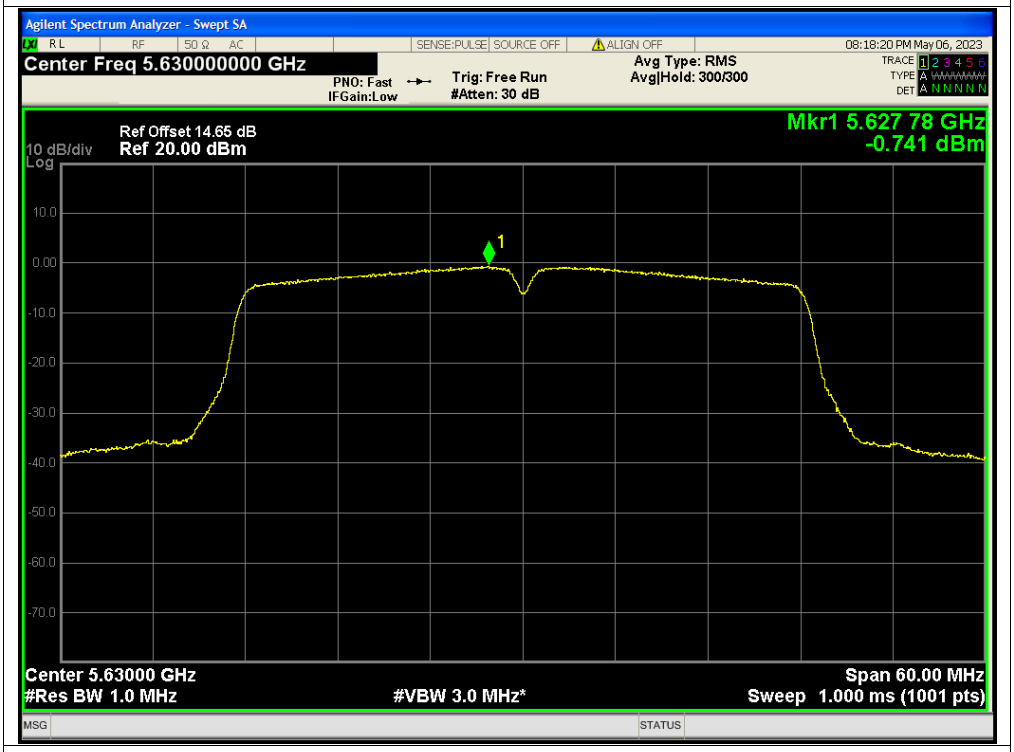
PSD NVNT ac40 5550MHz Ant0



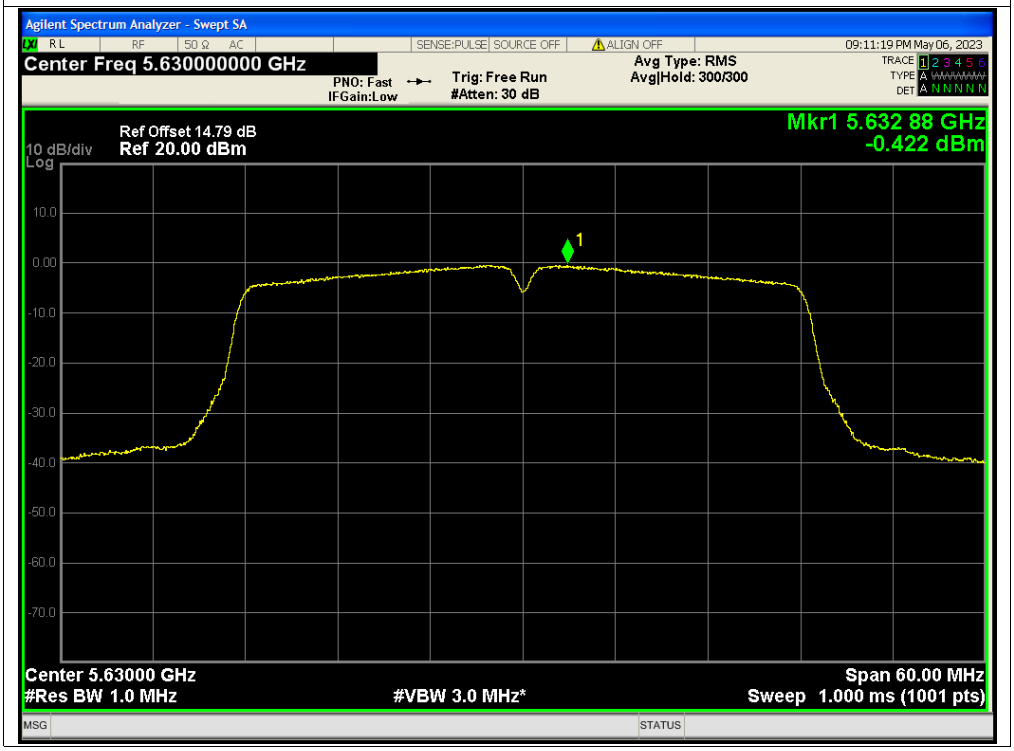
PSD NVNT ac40 5550MHz Ant1



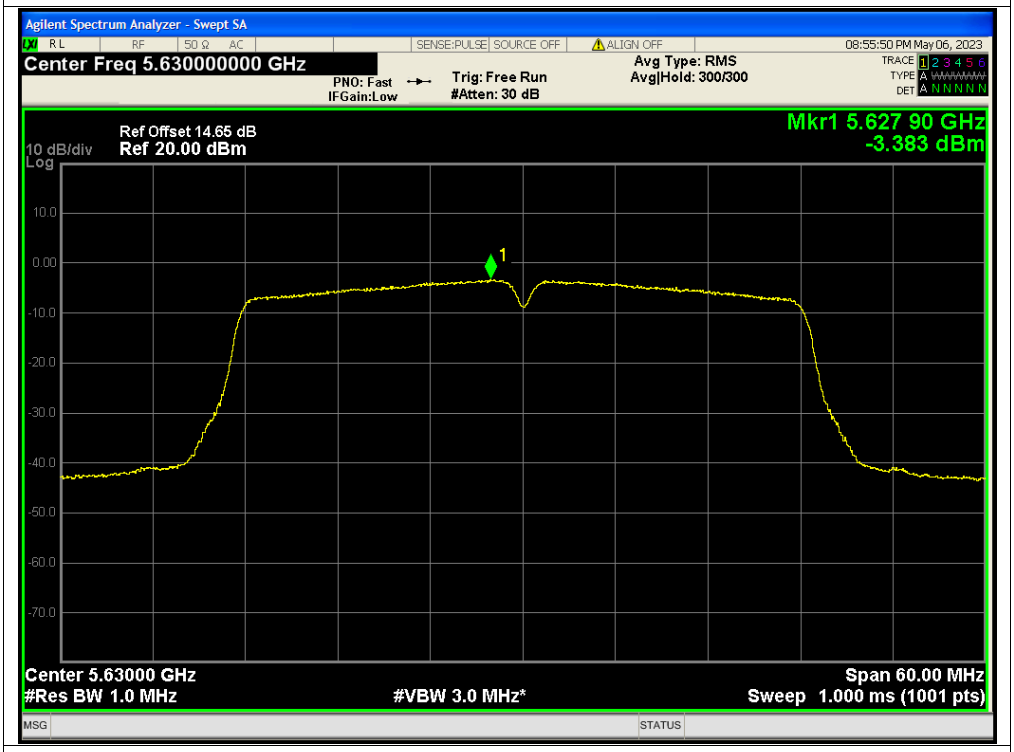
PSD NVNT ac40 5630MHz Ant0



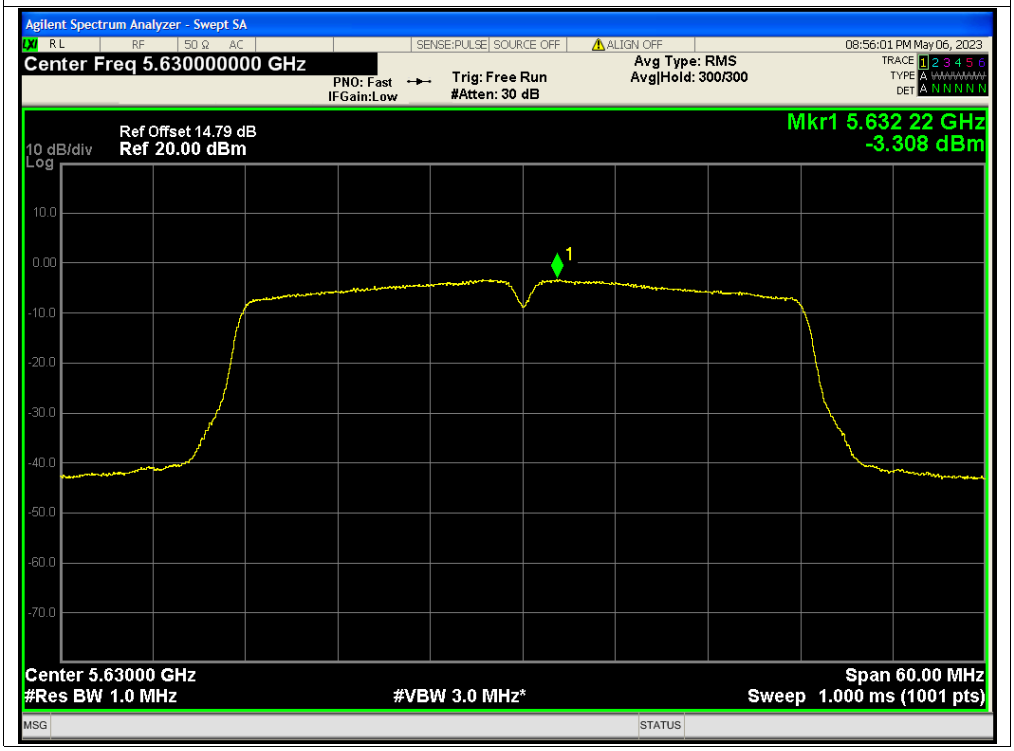
PSD NVNT ac40 5630MHz Ant1



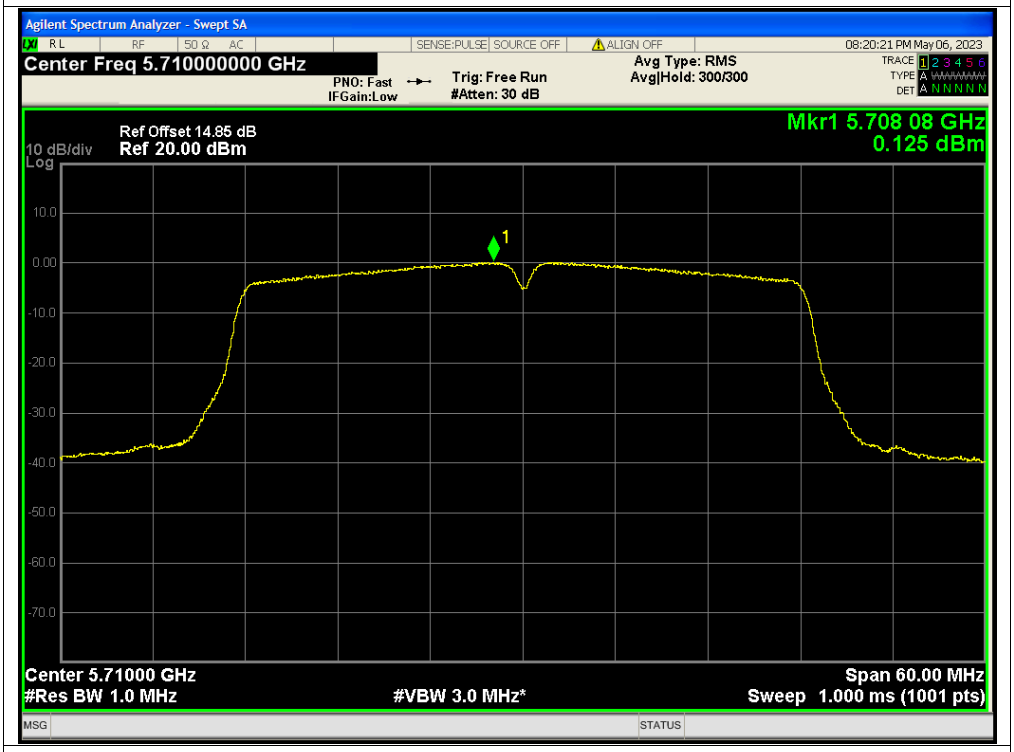
PSD NVNT ac40 5630MHz Ant0



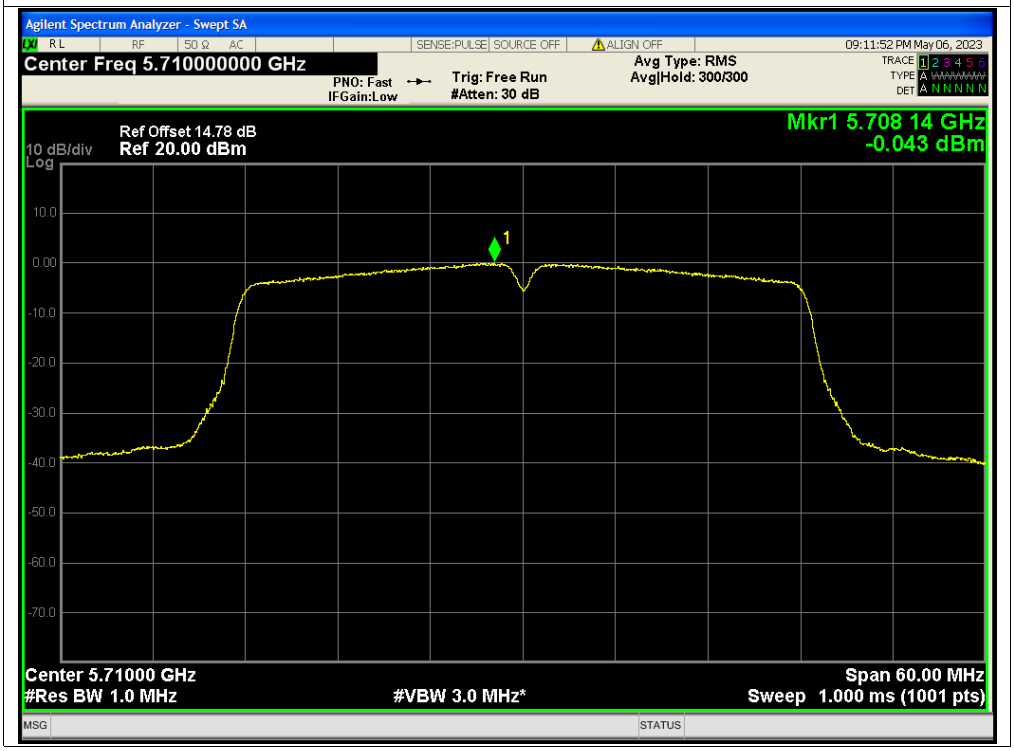
PSD NVNT ac40 5630MHz Ant1



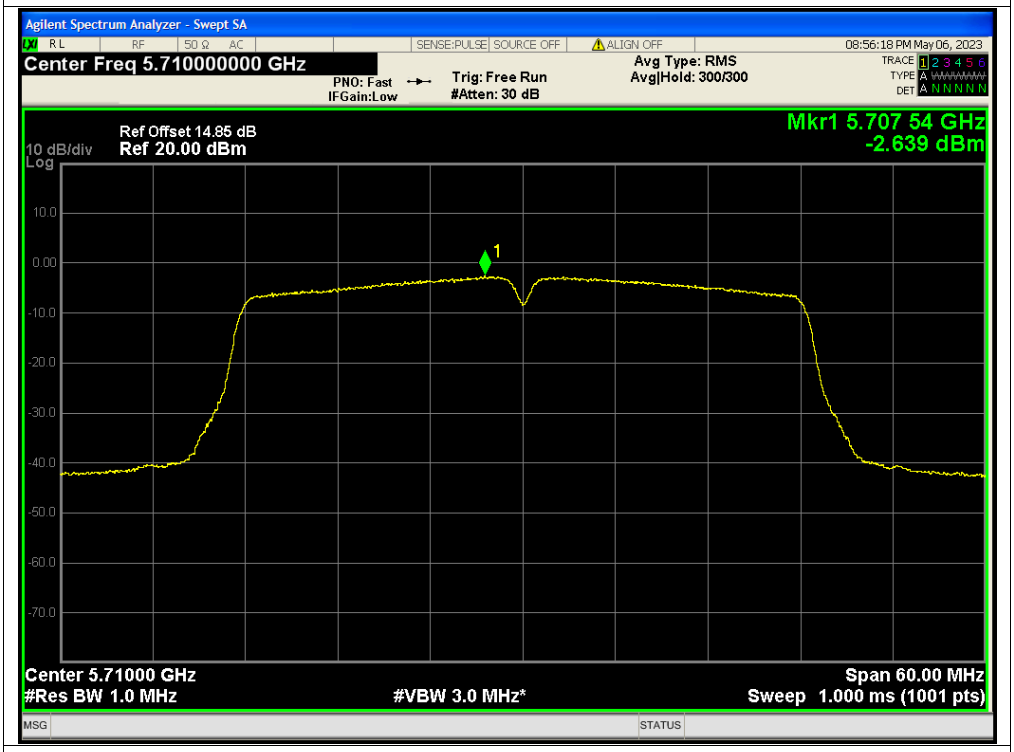
PSD NVNT ac40 5710MHz Ant0



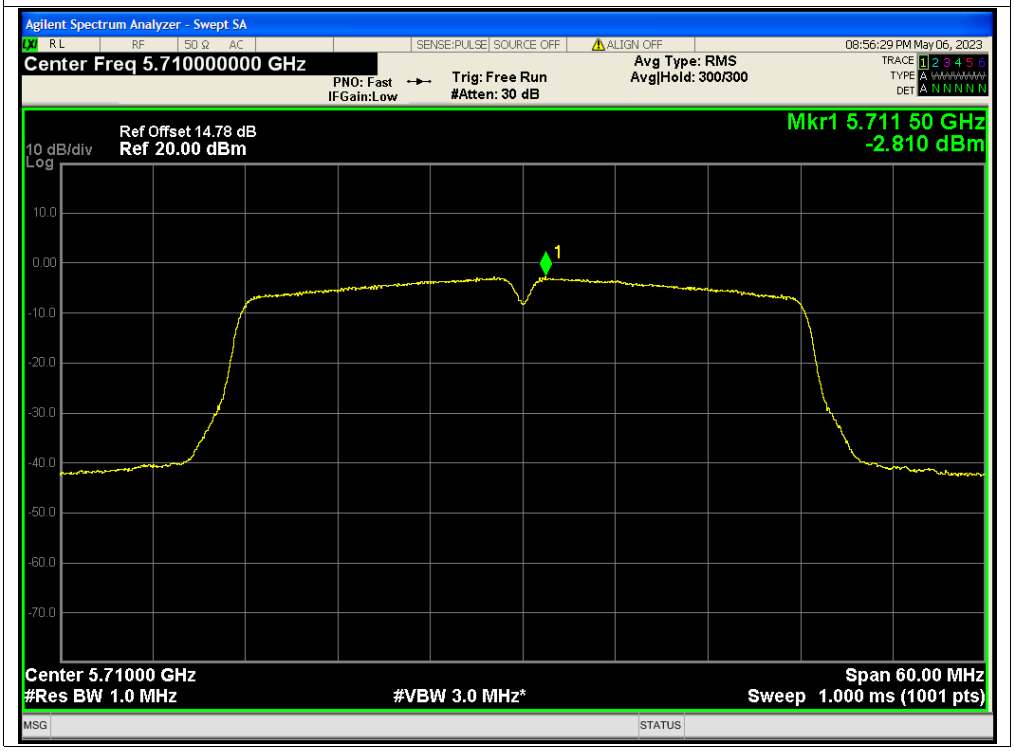
PSD NVNT ac40 5710MHz Ant1



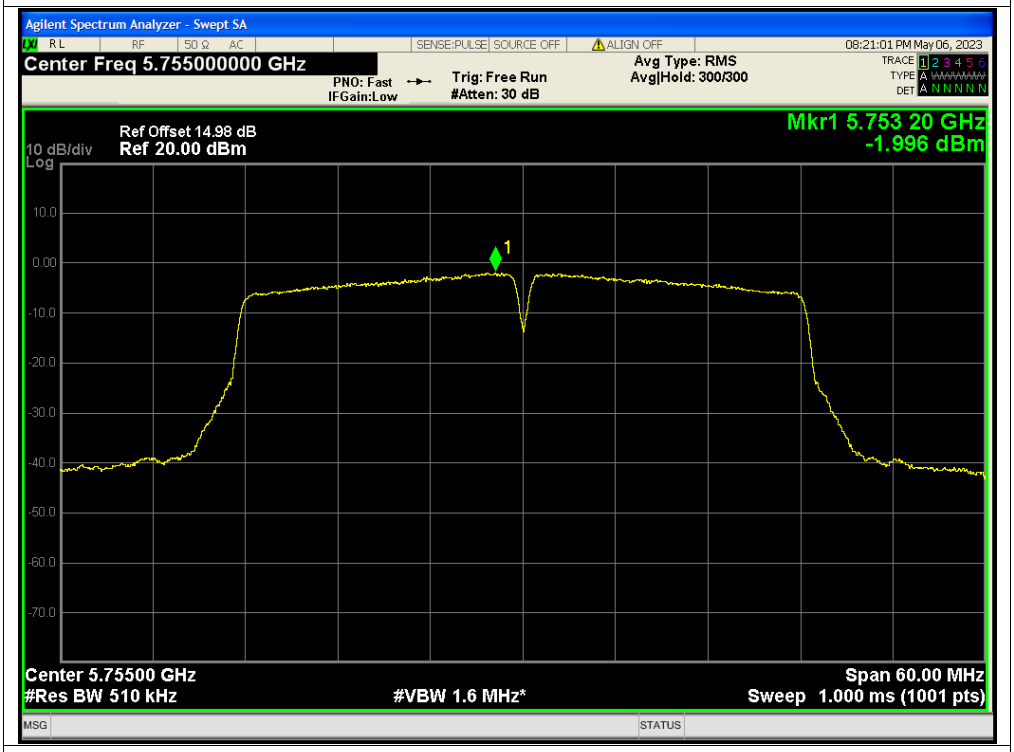
PSD NVNT ac40 5710MHz Ant0



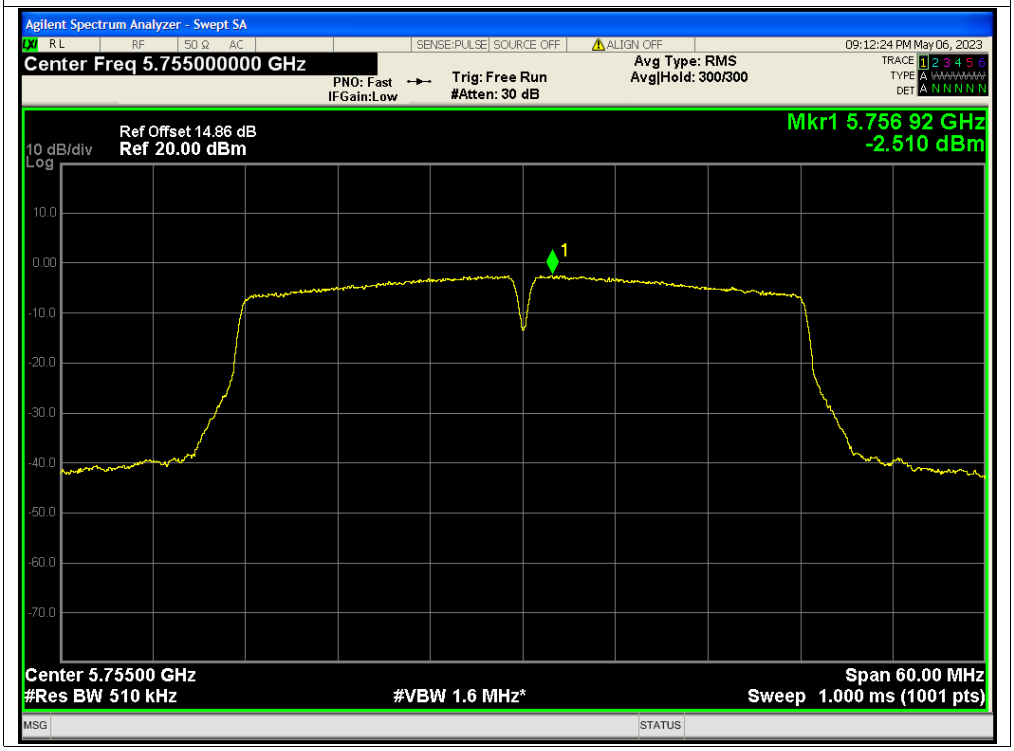
PSD NVNT ac40 5710MHz Ant1



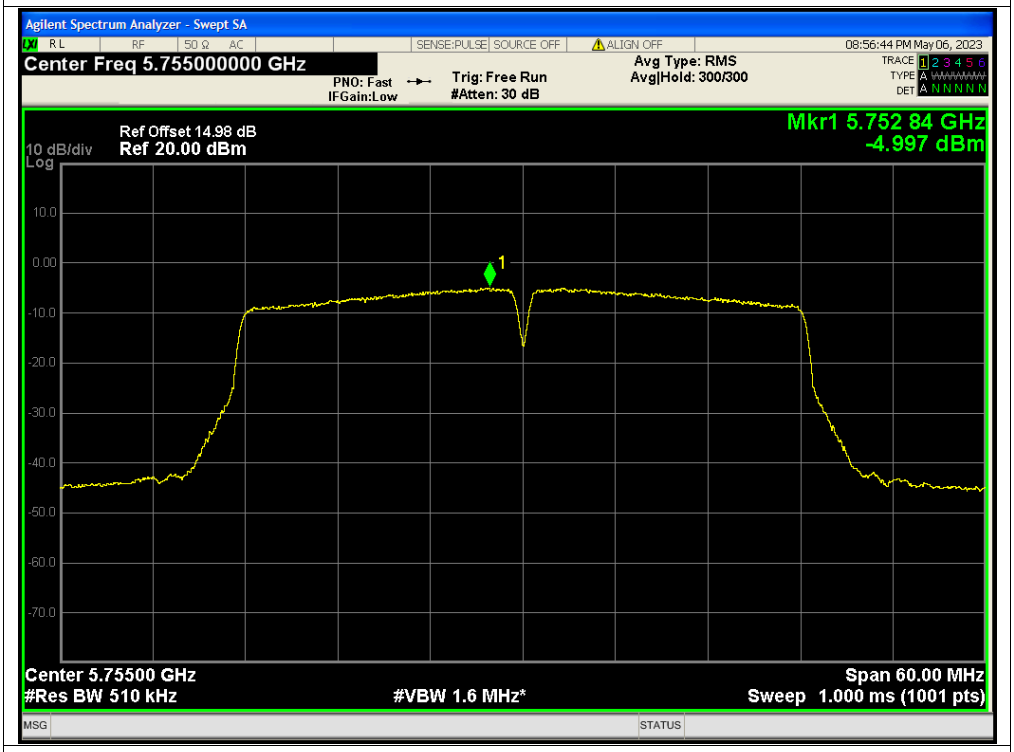
PSD NVNT ac40 5755MHz Ant0



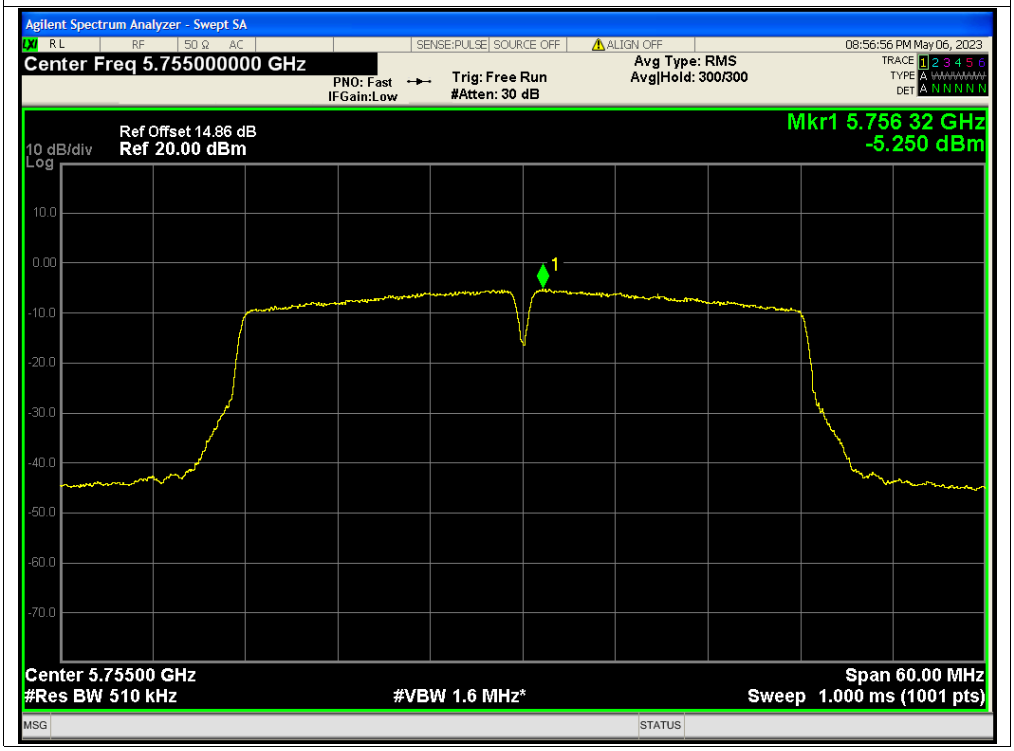
PSD NVNT ac40 5755MHz Ant1



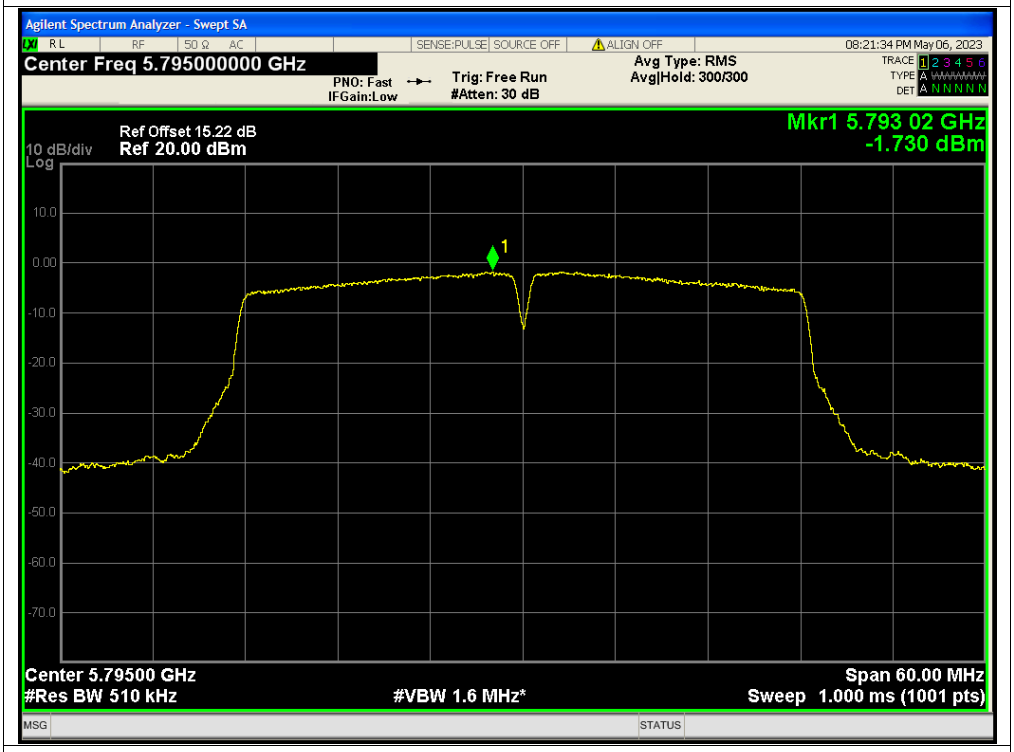
PSD NVNT ac40 5755MHz Ant0



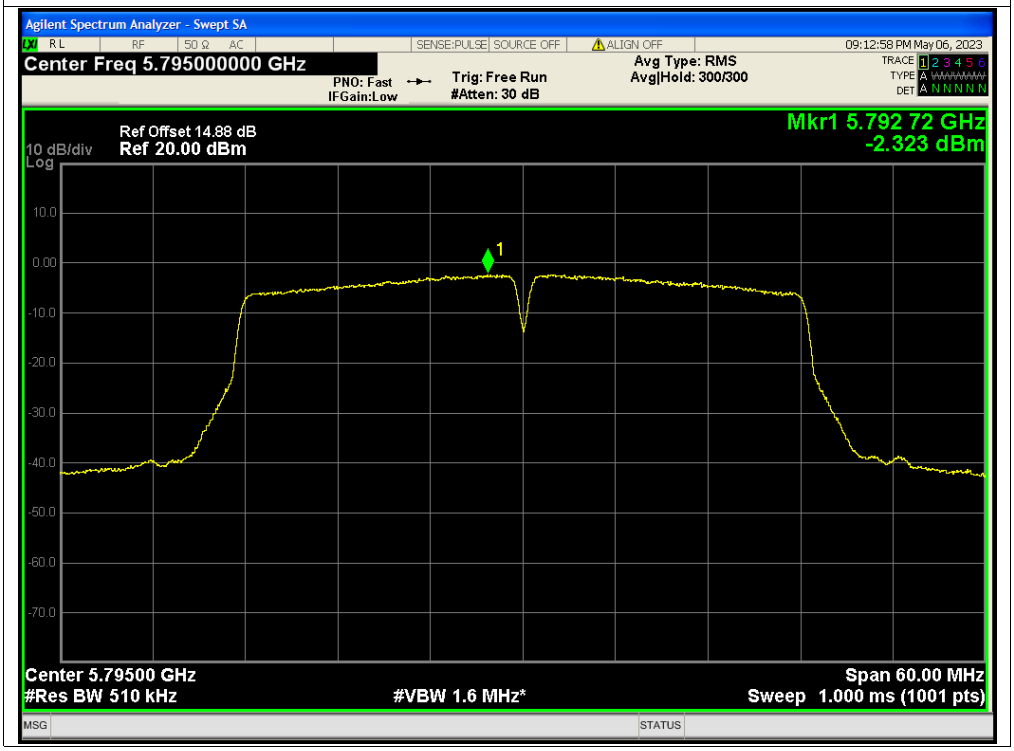
PSD NVNT ac40 5755MHz Ant1



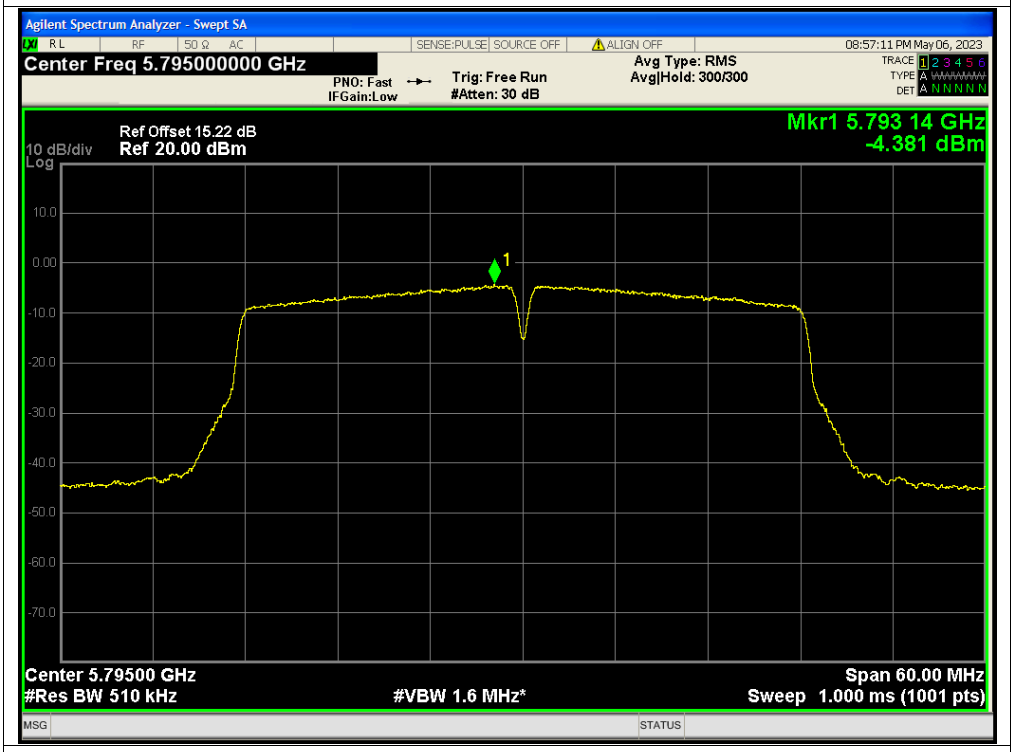
PSD NVNT ac40 5795MHz Ant0



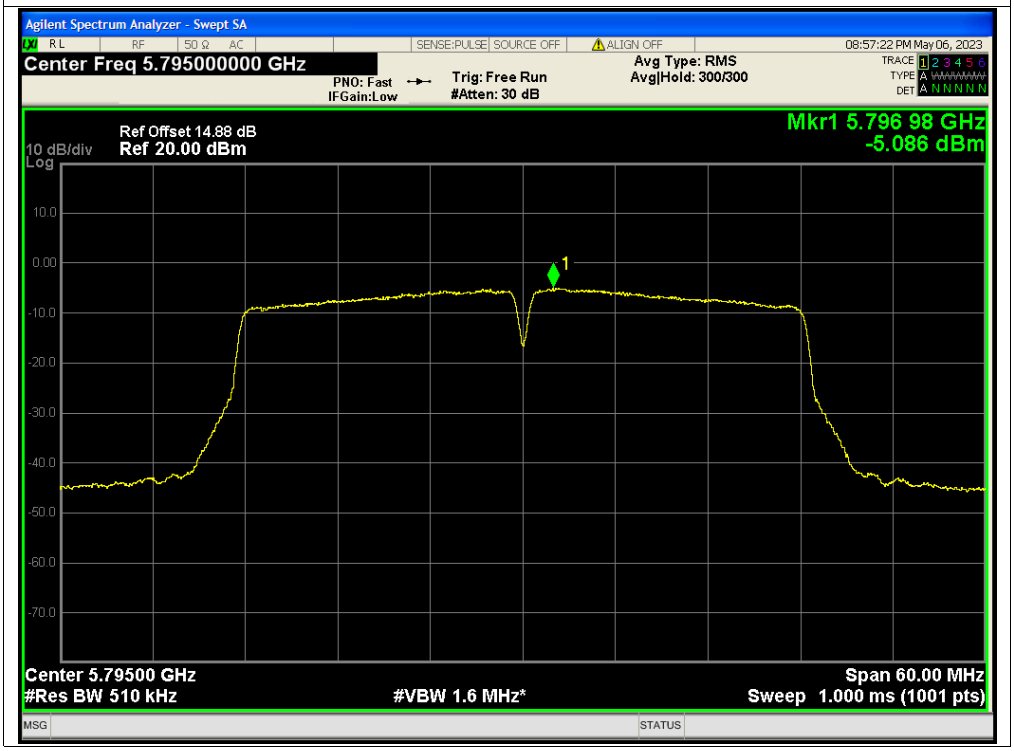
PSD NVNT ac40 5795MHz Ant1



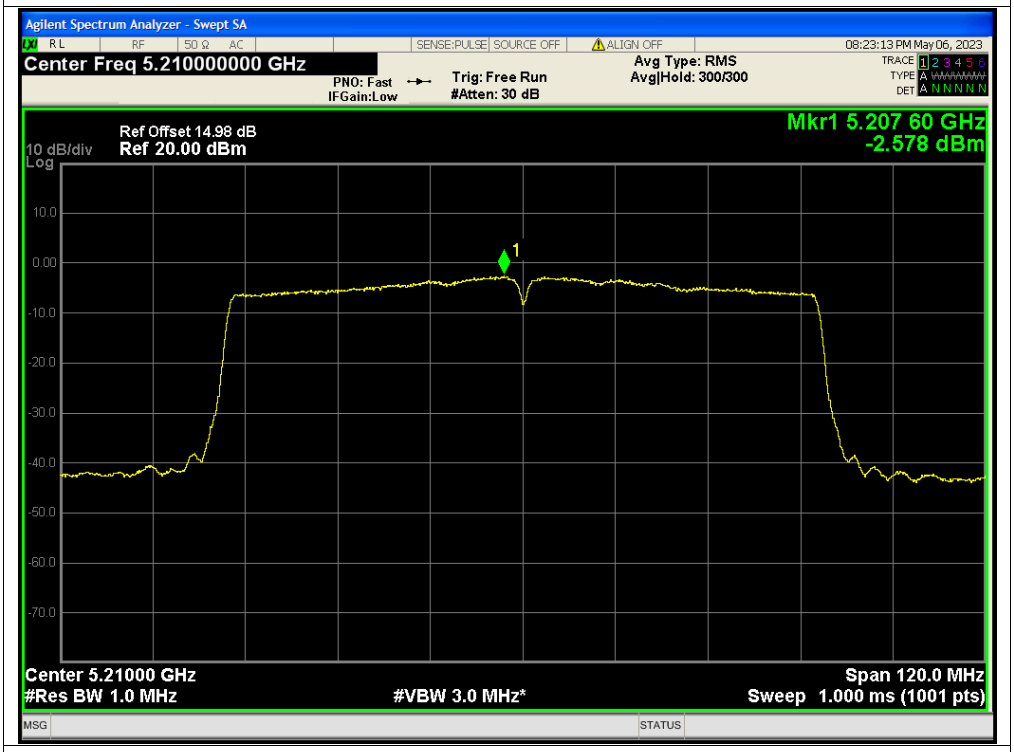
PSD NVNT ac40 5795MHz Ant0



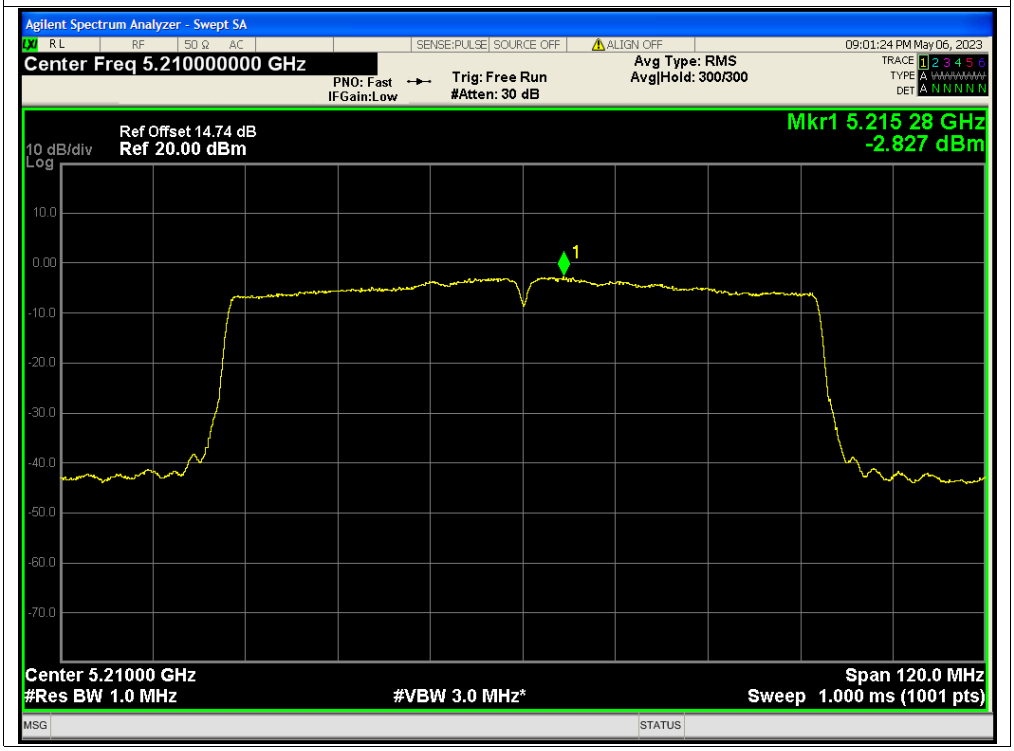
PSD NVNT ac40 5795MHz Ant1



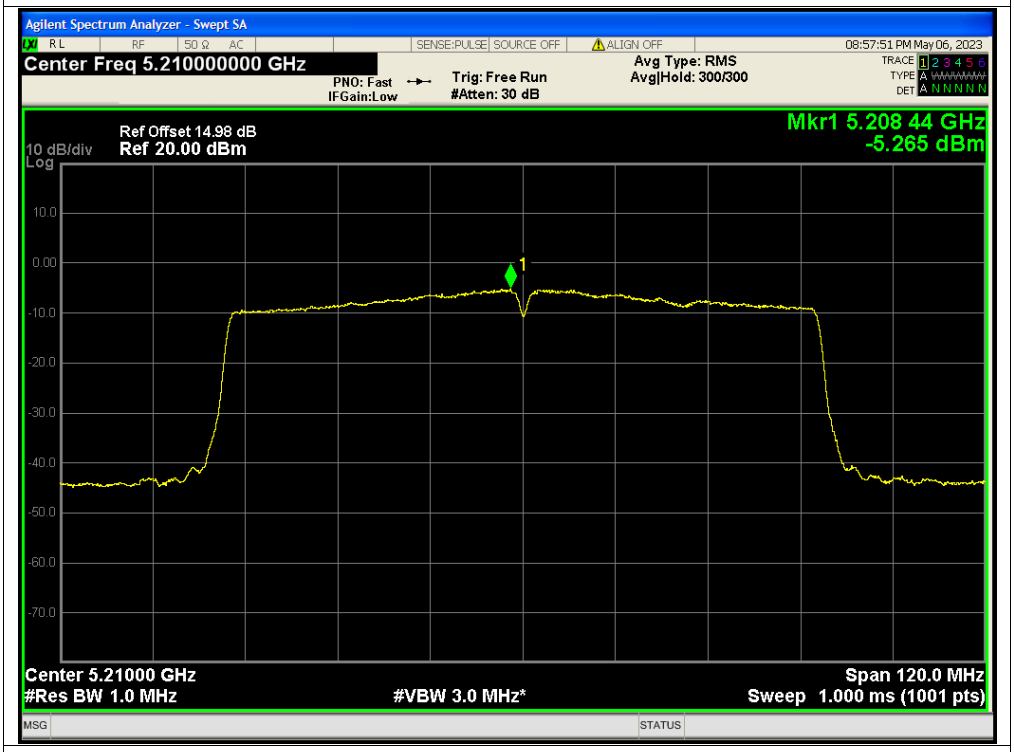
PSD NVNT ac80 5210MHz Ant0



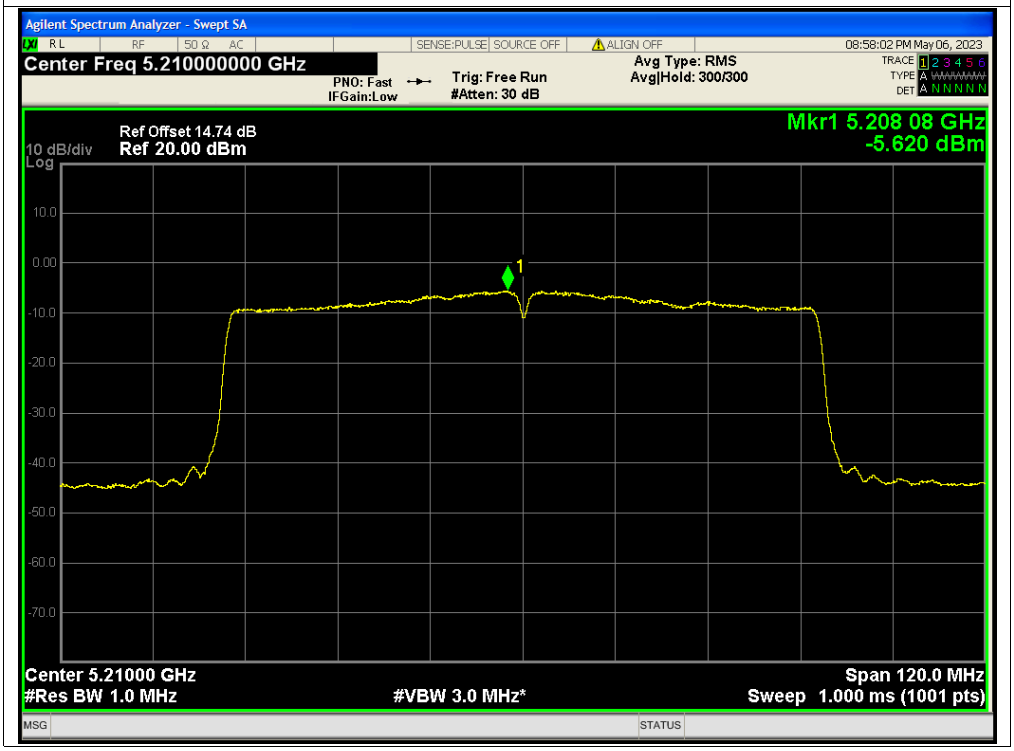
PSD NVNT ac80 5210MHz Ant1



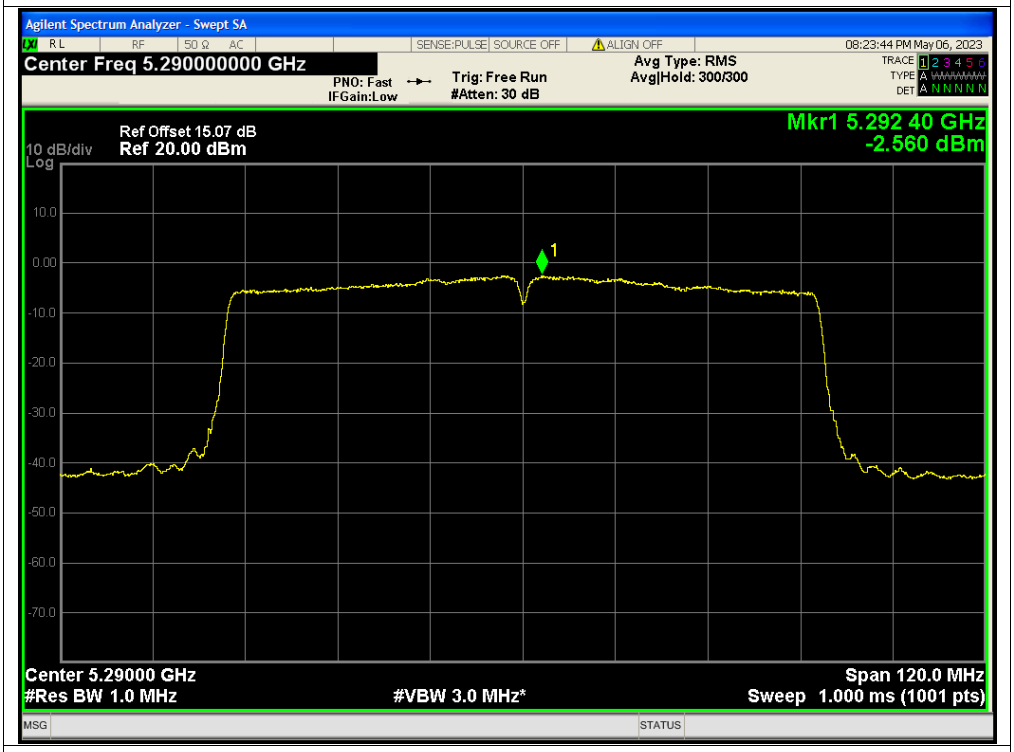
PSD NVNT ac80 5210MHz Ant0



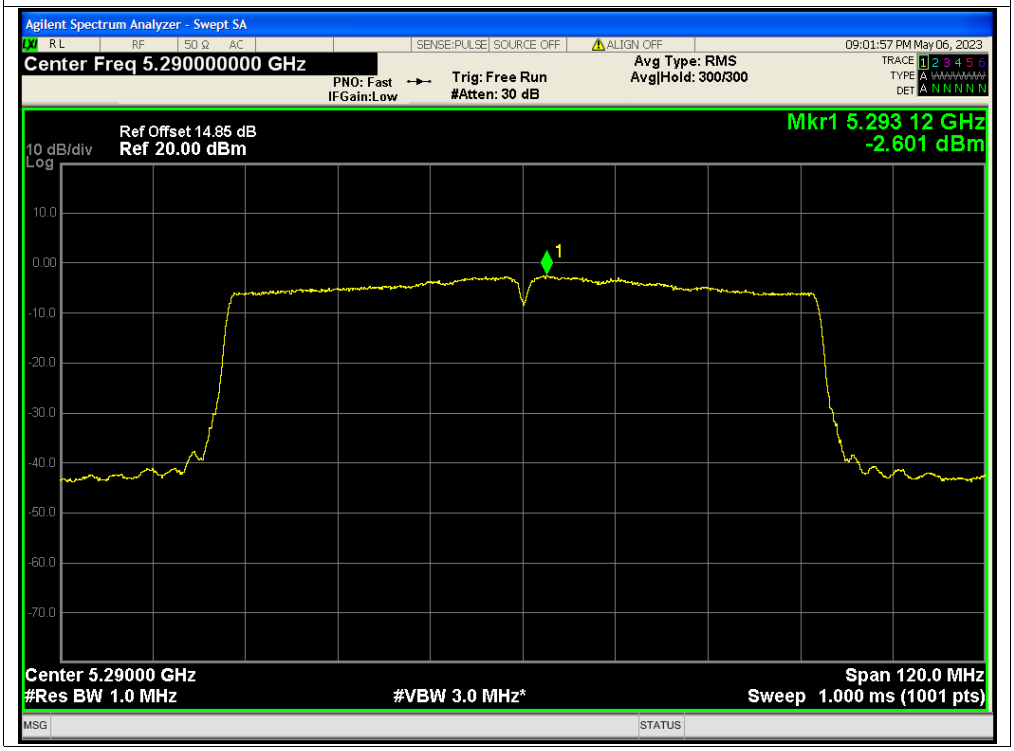
PSD NVNT ac80 5210MHz Ant1



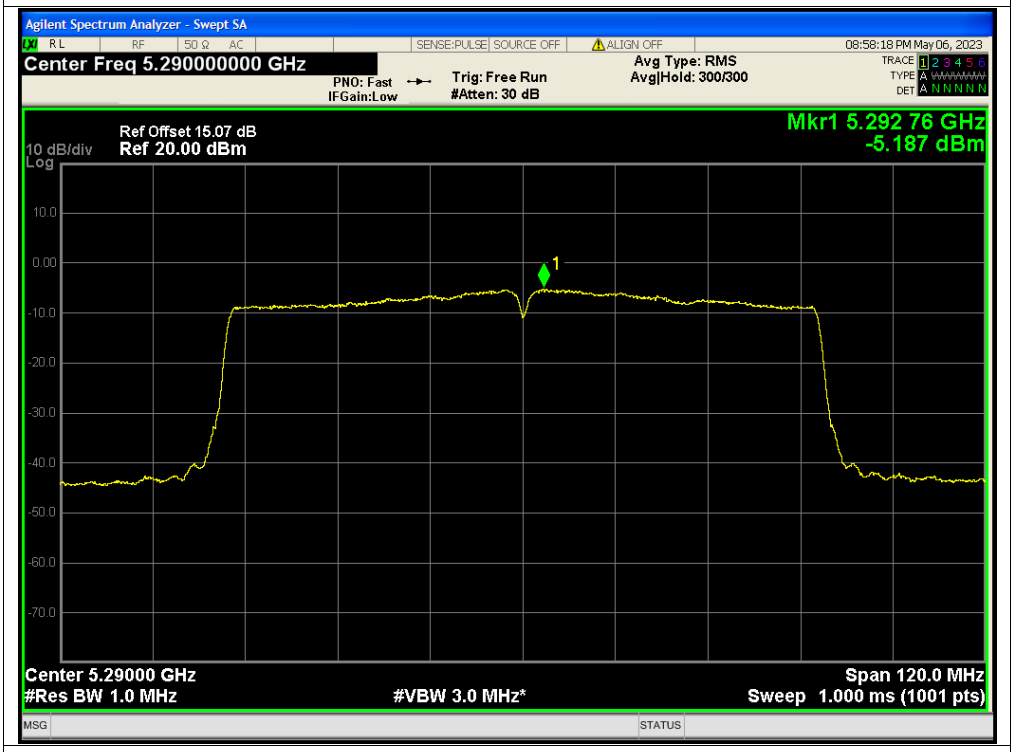
PSD NVNT ac80 5290MHz Ant0



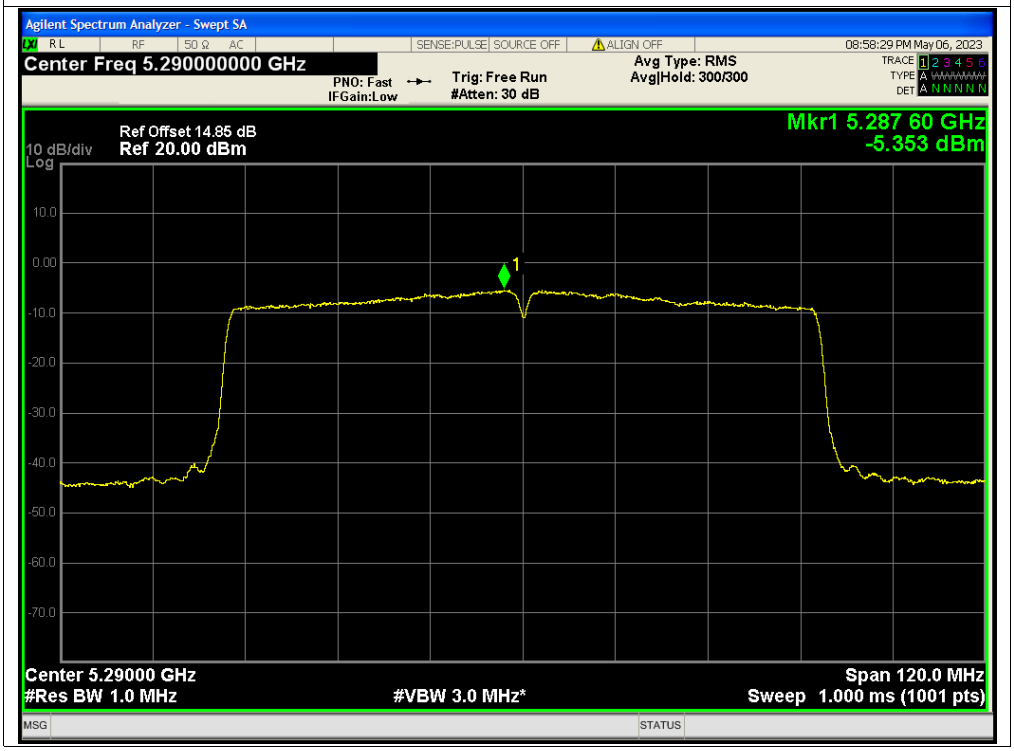
PSD NVNT ac80 5290MHz Ant1



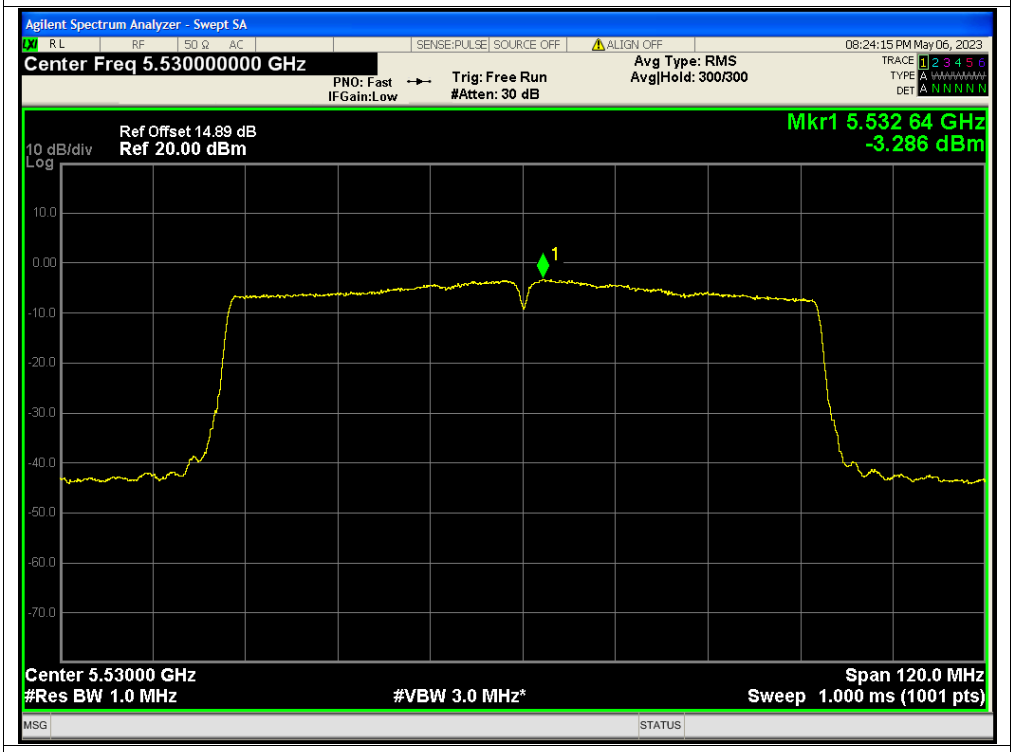
PSD NVNT ac80 5290MHz Ant0



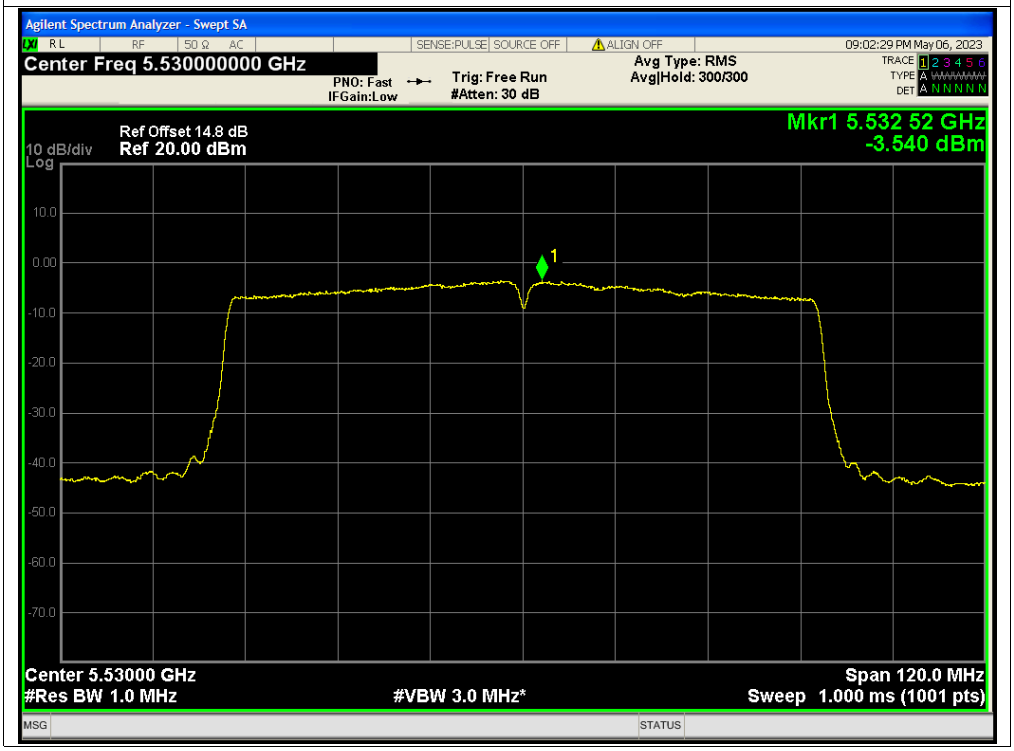
PSD NVNT ac80 5290MHz Ant1



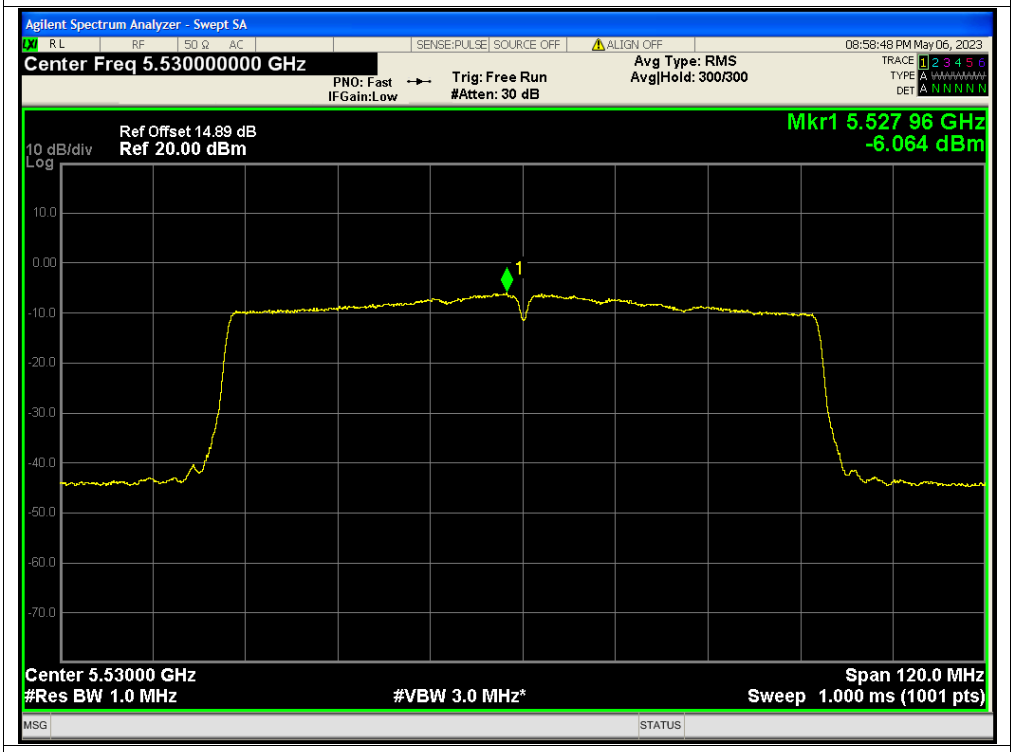
PSD NVNT ac80 5530MHz Ant0



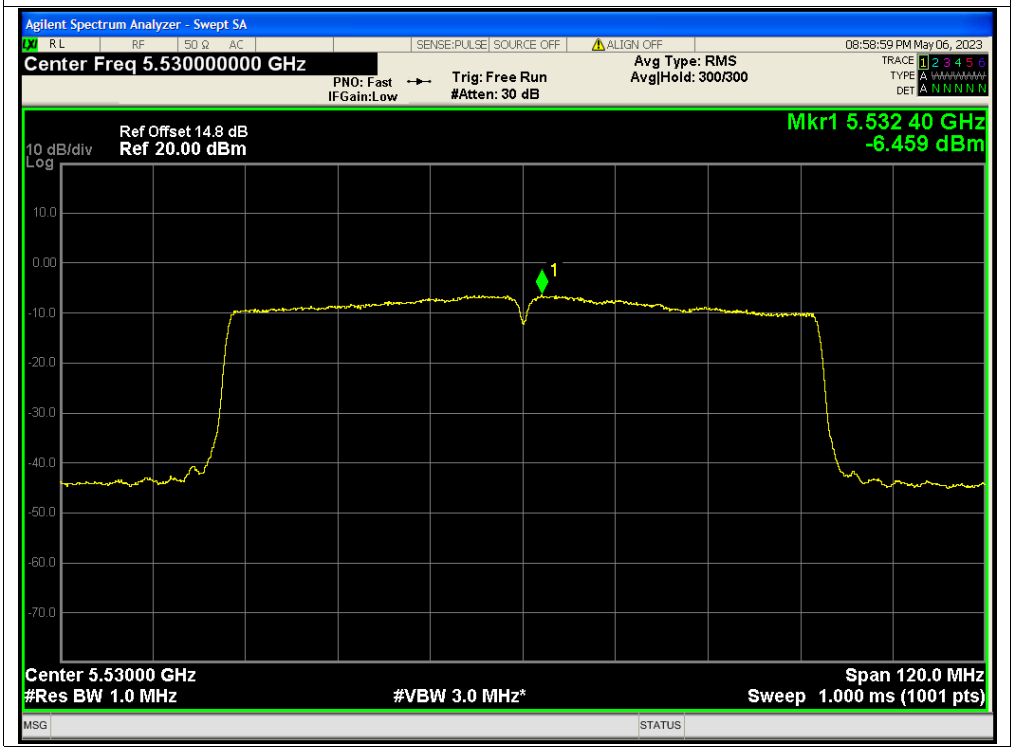
PSD NVNT ac80 5530MHz Ant1



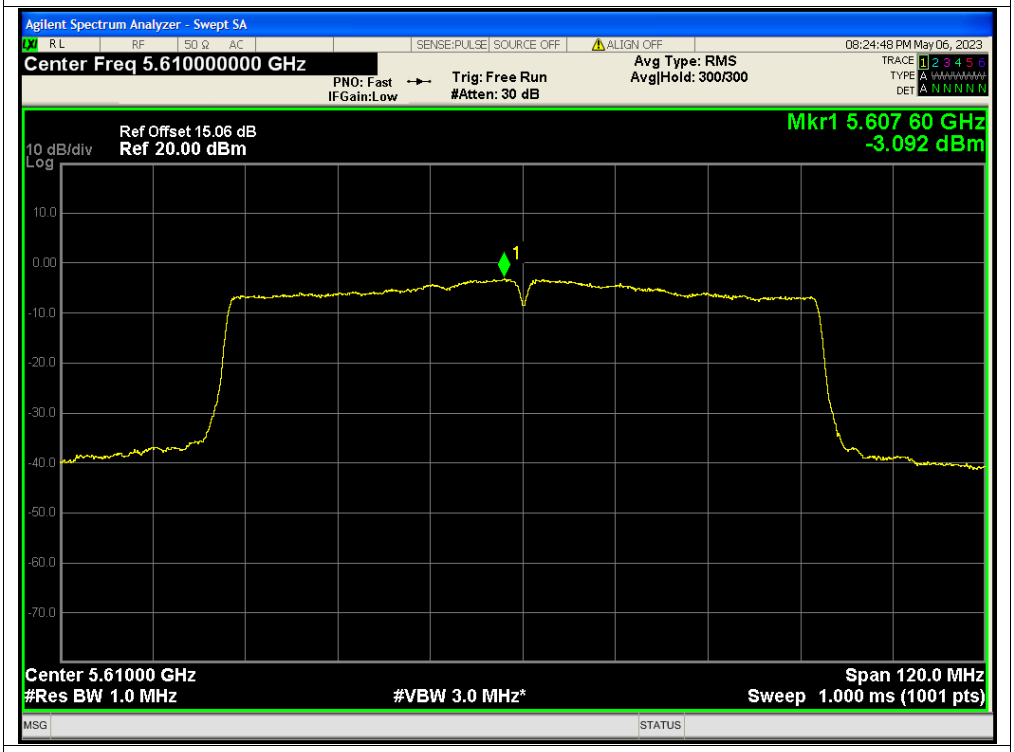
PSD NVNT ac80 5530MHz Ant0



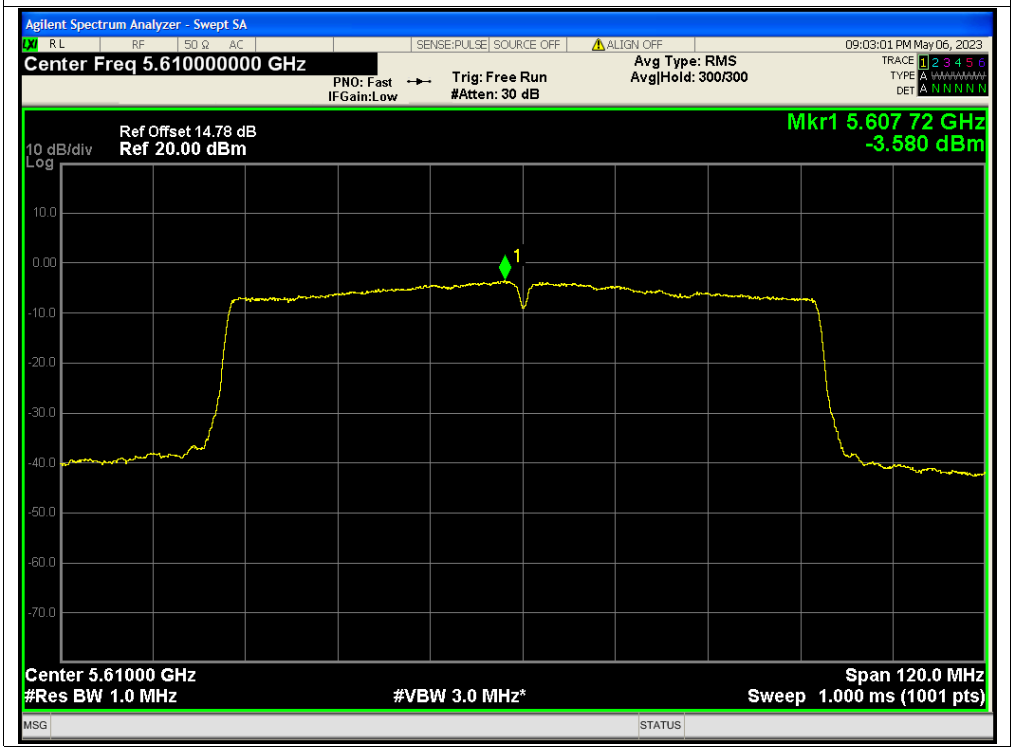
PSD NVNT ac80 5530MHz Ant1



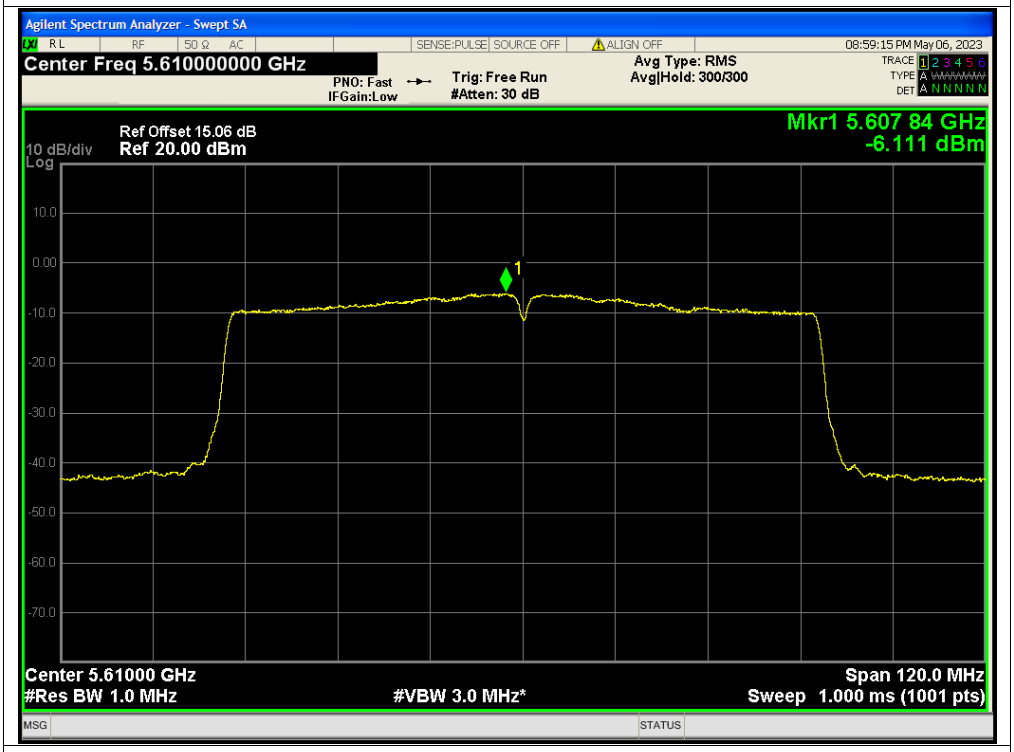
PSD NVNT ac80 5610MHz Ant0



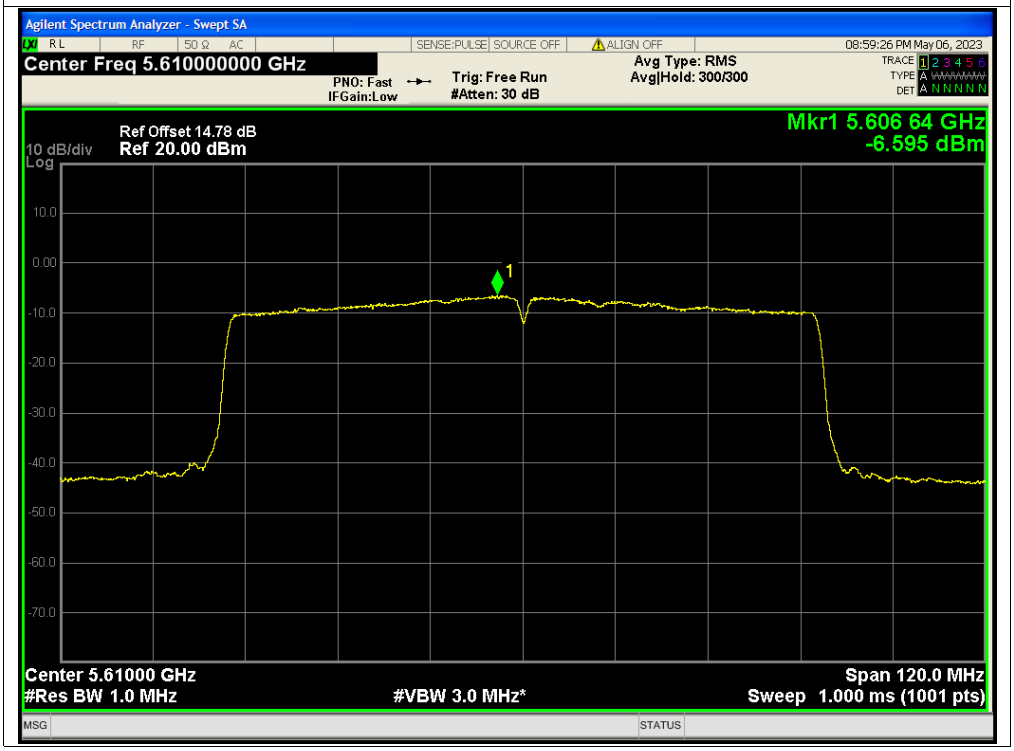
PSD NVNT ac80 5610MHz Ant1



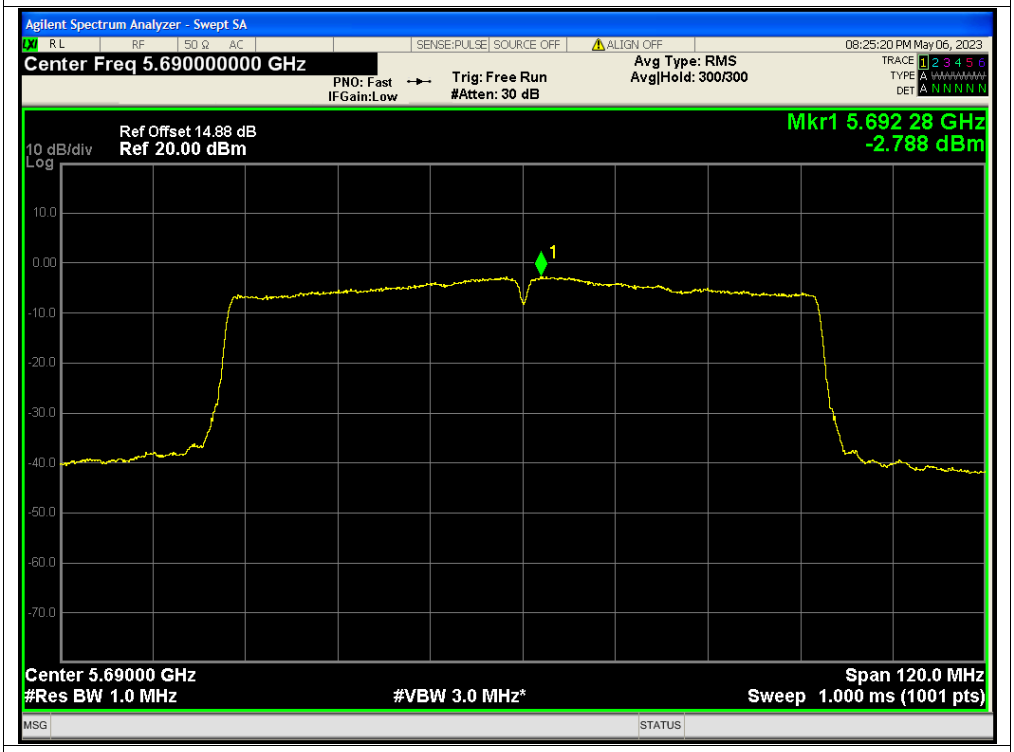
PSD NVNT ac80 5610MHz Ant0



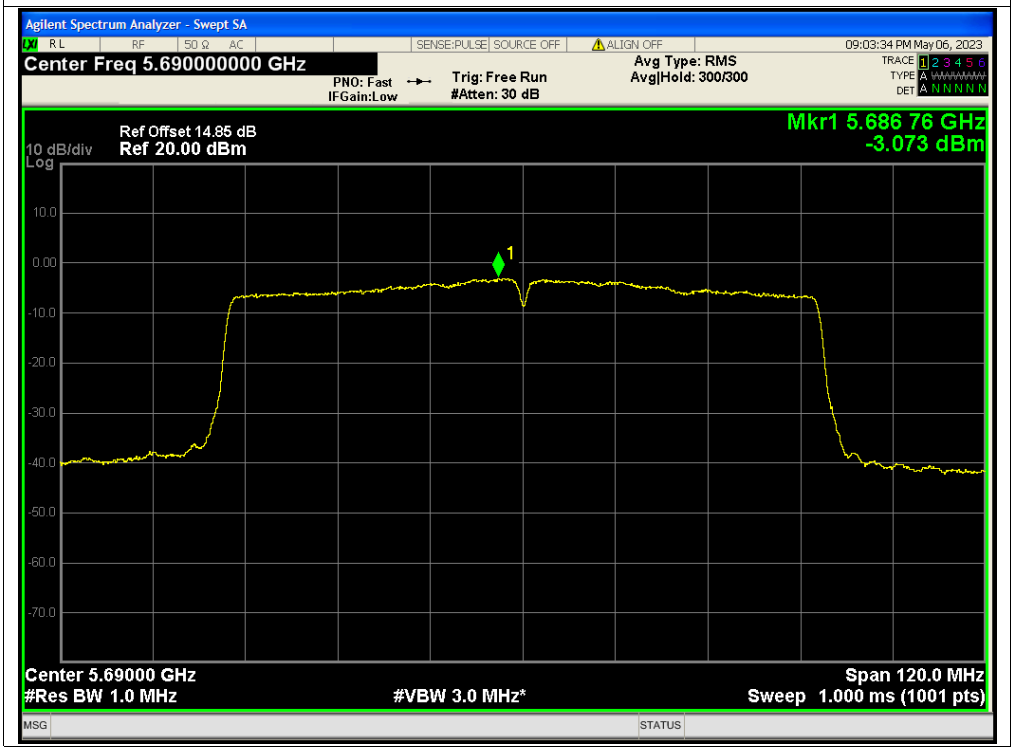
PSD NVNT ac80 5610MHz Ant1



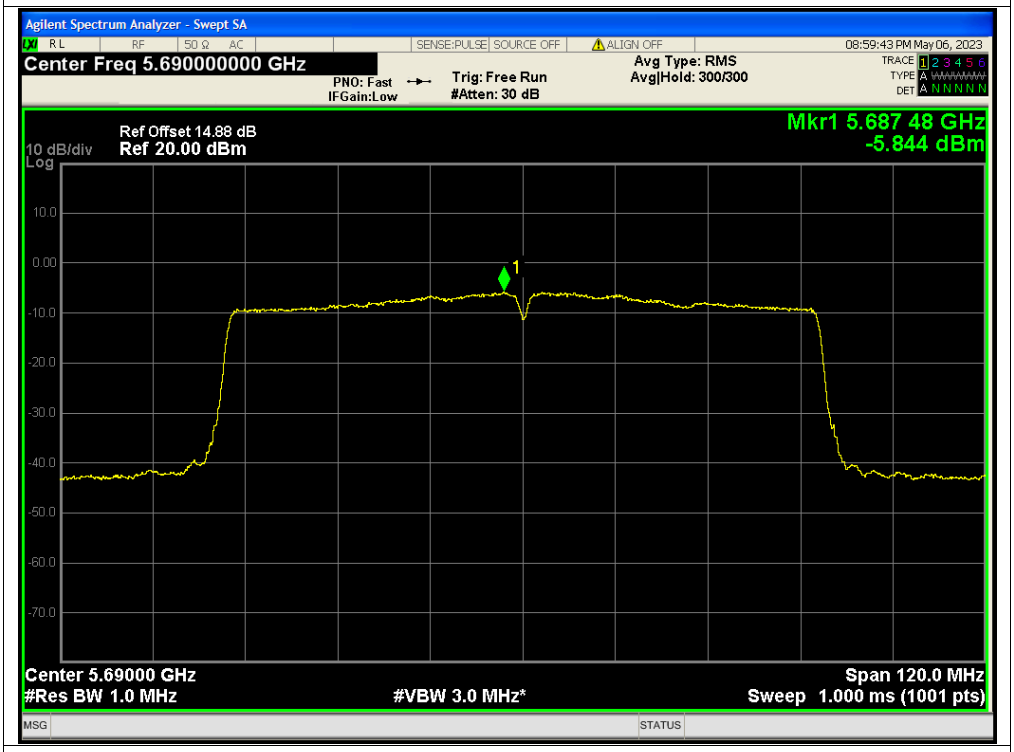
PSD NVNT ac80 5690MHz Ant0



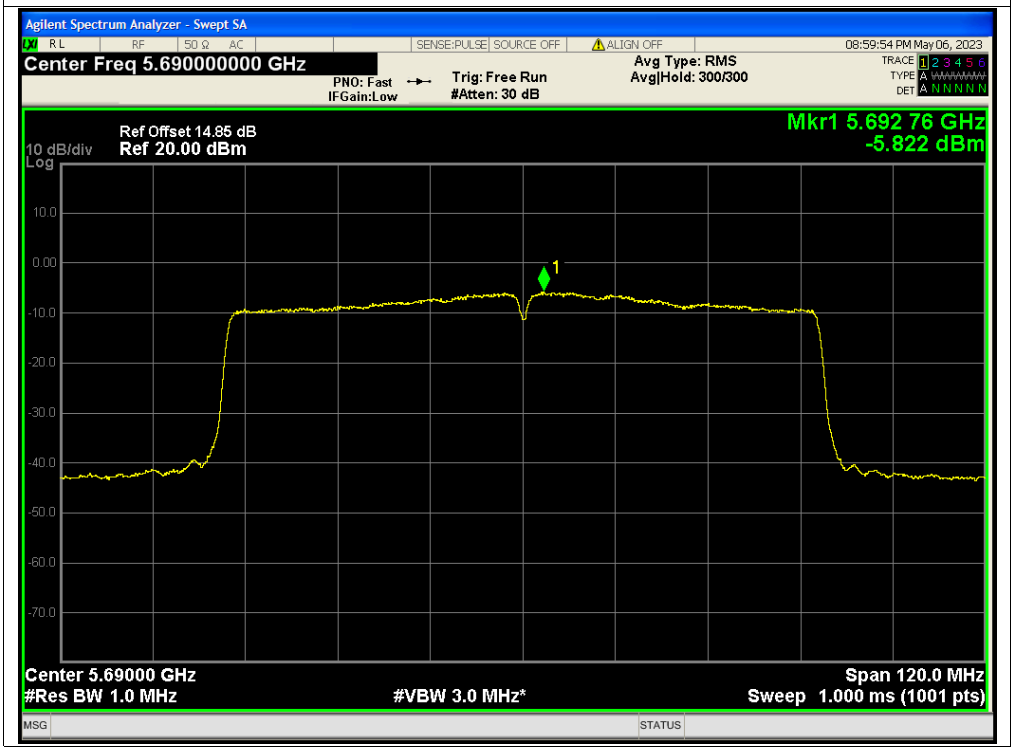
PSD NVNT ac80 5690MHz Ant1



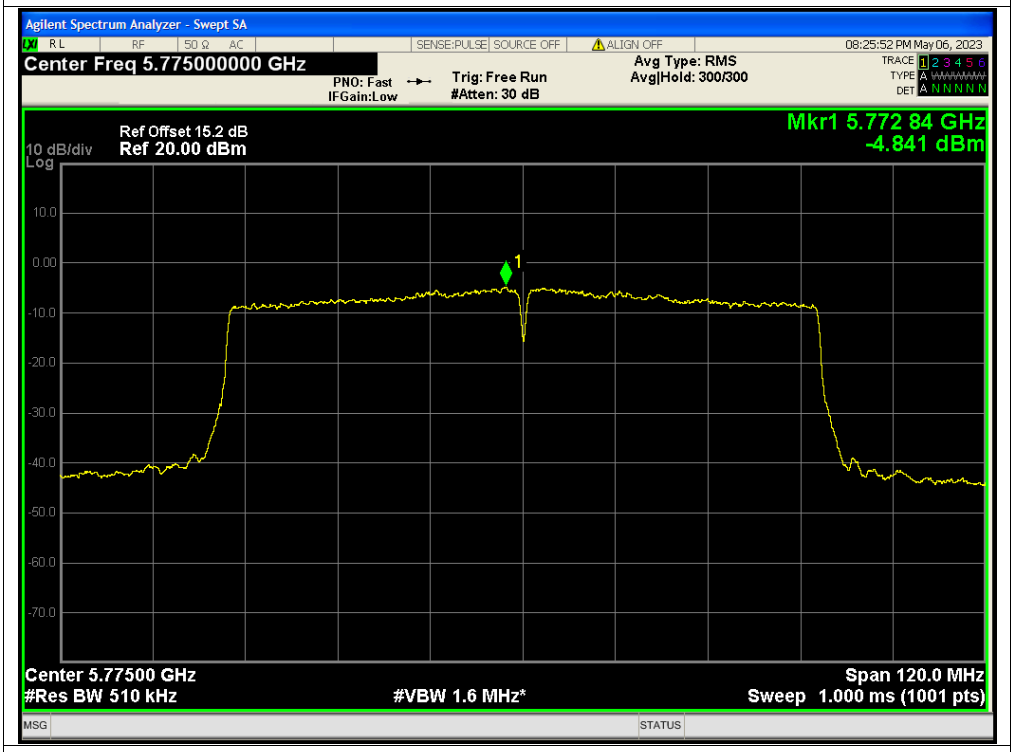
PSD NVNT ac80 5690MHz Ant0



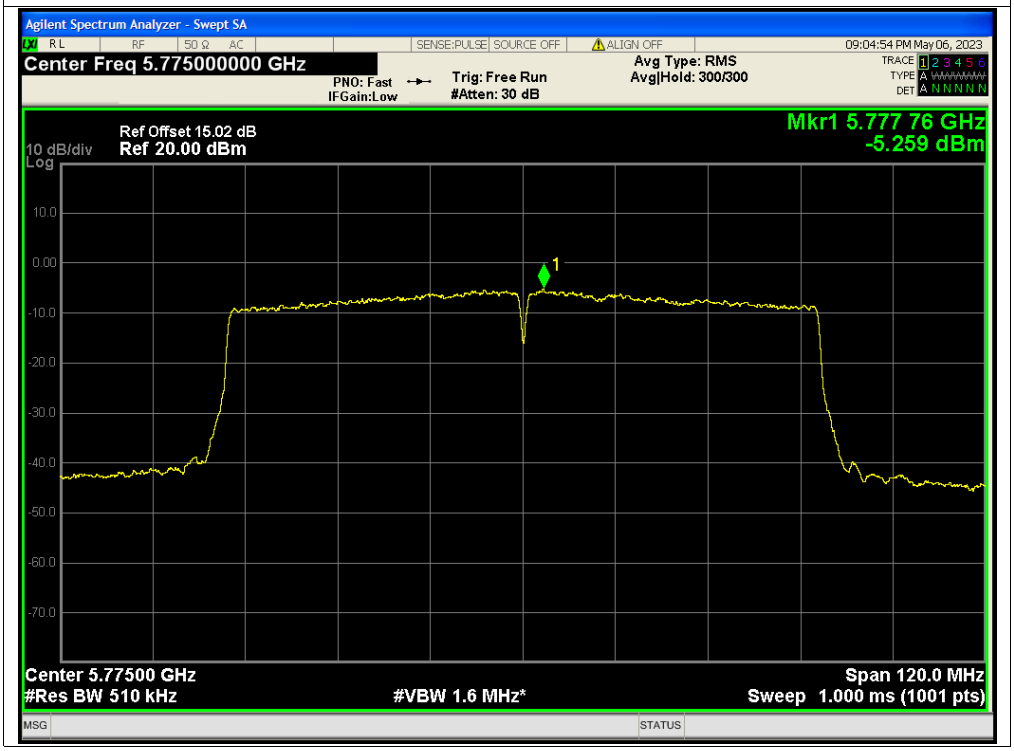
PSD NVNT ac80 5690MHz Ant1



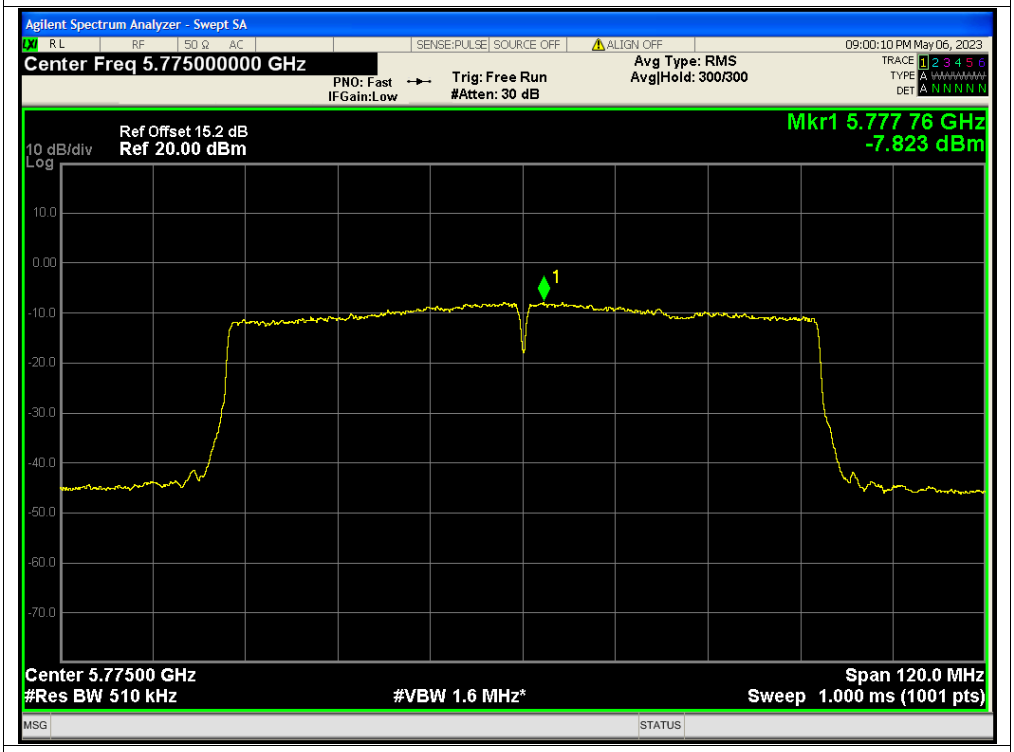
PSD NVNT ac80 5775MHz Ant0



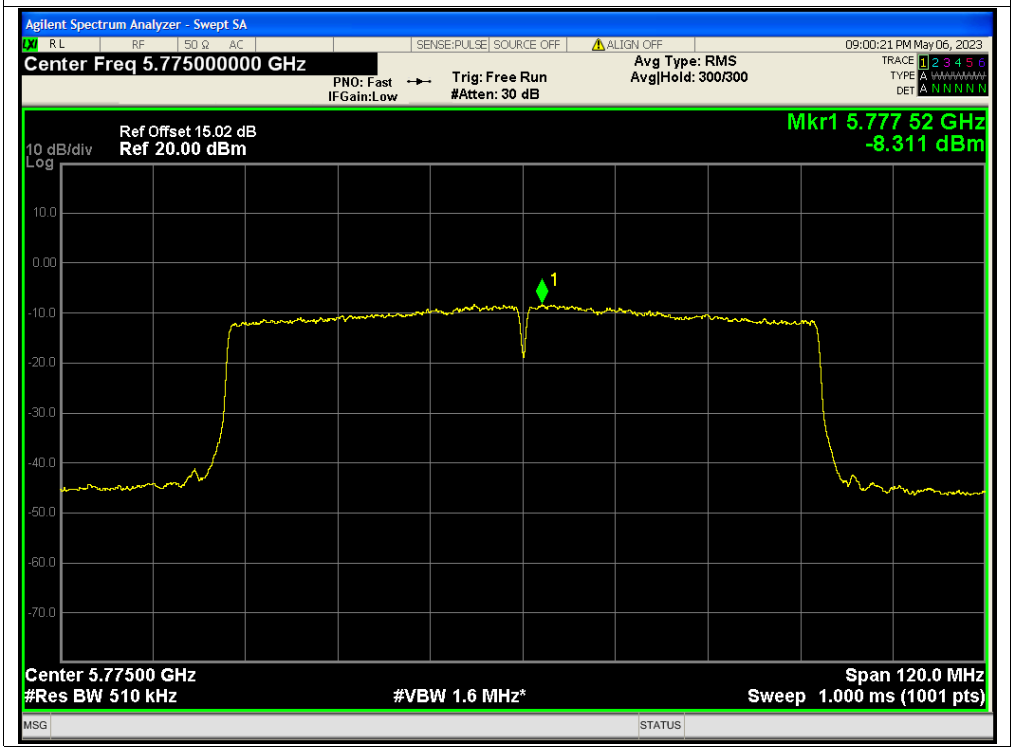
PSD NVNT ac80 5775MHz Ant1



PSD NVNT ac80 5775MHz Ant0



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 11.2V	Carrier	5180	Ant0	5179.969	-31000	-5.98	25	Pass
20C 14.4V	Carrier	5180	Ant0	5179.97	-30000	-5.79	25	Pass
20C 16.8V	Carrier	5180	Ant0	5179.969	-31000	-5.98	25	Pass
0C 14.4V	Carrier	5180	Ant0	5179.97	-30000	-5.79	25	Pass
10C 14.4V	Carrier	5180	Ant0	5179.97	-30000	-5.79	25	Pass
30C 14.4V	Carrier	5180	Ant0	5179.97	-30000	-5.79	25	Pass
40C 14.4V	Carrier	5180	Ant0	5179.97	-30000	-5.79	25	Pass
50C 14.4V	Carrier	5180	Ant0	5179.969	-31000	-5.98	25	Pass
20C 11.2V	Carrier	5260	Ant0	5259.97	-30000	-5.7	25	Pass
20C 14.4V	Carrier	5260	Ant0	5259.97	-30000	-5.7	25	Pass
20C 16.8V	Carrier	5260	Ant0	5259.97	-30000	-5.7	25	Pass
0C 14V	Carrier	5260	Ant0	5259.969	-31000	-5.89	25	Pass
10C 14V	Carrier	5260	Ant0	5259.97	-30000	-5.7	25	Pass
20C 14V	Carrier	5260	Ant0	5259.969	-31000	-5.89	25	Pass
30C 14V	Carrier	5260	Ant0	5259.969	-31000	-5.89	25	Pass
40C 14V	Carrier	5260	Ant0	5259.969	-31000	-5.89	25	Pass
50C 14V	Carrier	5260	Ant0	5259.969	-31000	-5.89	25	Pass
20C 11.2V	Carrier	5500	Ant0	5499.97	-30000	-5.45	25	Pass
20C 14.4V	Carrier	5500	Ant0	5499.97	-30000	-5.45	25	Pass
20C 16.8V	Carrier	5500	Ant0	5499.969	-31000	-5.64	25	Pass
0C 14V	Carrier	5500	Ant0	5499.968	-32000	-5.82	25	Pass
10C 14V	Carrier	5500	Ant0	5499.968	-32000	-5.82	25	Pass
20C 14V	Carrier	5500	Ant0	5499.968	-32000	-5.82	25	Pass
30C 14V	Carrier	5500	Ant0	5499.968	-32000	-5.82	25	Pass
40C 14V	Carrier	5500	Ant0	5499.968	-32000	-5.82	25	Pass
50C 14V	Carrier	5500	Ant0	5499.968	-32000	-5.82	25	Pass
20C 11.2V	Carrier	5745	Ant0	5744.968	-32000	-5.57	25	Pass
20C 14.4V	Carrier	5745	Ant0	5744.967	-33000	-5.74	25	Pass
20C 16.8V	Carrier	5745	Ant0	5744.967	-33000	-5.74	25	Pass
0C 14V	Carrier	5745	Ant0	5744.966	-34000	-5.92	25	Pass
10C 14V	Carrier	5745	Ant0	5744.966	-34000	-5.92	25	Pass
20C 14V	Carrier	5745	Ant0	5744.966	-34000	-5.92	25	Pass
30C 14V	Carrier	5745	Ant0	5744.966	-34000	-5.92	25	Pass
40C 14V	Carrier	5745	Ant0	5744.966	-34000	-5.92	25	Pass

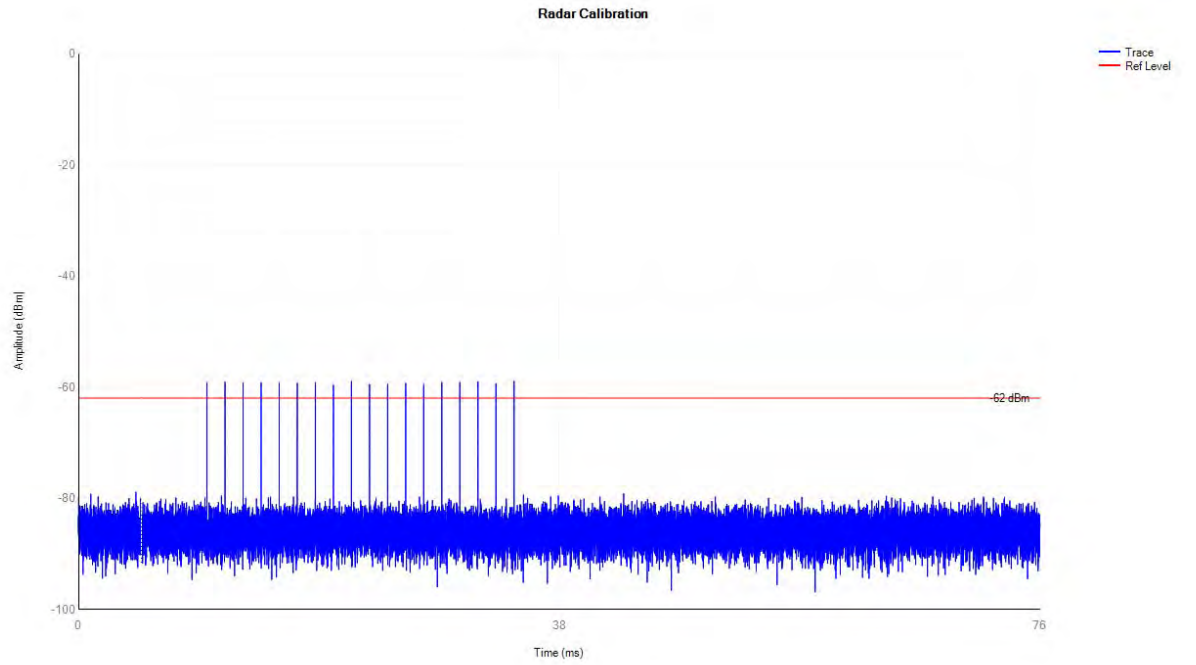
50C 14V	Carrier	5745	Ant0	5744.966	-34000	-5.92	25	Pass
20C 11.2V	Carrier	5180	Ant1	5179.981	-19000	-3.67	25	Pass
20C 14.4V	Carrier	5180	Ant1	5179.98	-20000	-3.86	25	Pass
20C 16.8V	Carrier	5180	Ant1	5179.98	-20000	-3.86	25	Pass
0C 14V	Carrier	5180	Ant1	5179.979	-21000	-4.05	25	Pass
10C 14V	Carrier	5180	Ant1	5179.978	-22000	-4.25	25	Pass
20C 14V	Carrier	5180	Ant1	5179.978	-22000	-4.25	25	Pass
30C 14V	Carrier	5180	Ant1	5179.978	-22000	-4.25	25	Pass
40C 14V	Carrier	5180	Ant1	5179.977	-23000	-4.44	25	Pass
50C 14V	Carrier	5180	Ant1	5179.977	-23000	-4.44	25	Pass
20C 11.2V	Carrier	5260	Ant1	5259.977	-23000	-4.37	25	Pass
20C 14.4V	Carrier	5260	Ant1	5259.976	-24000	-4.56	25	Pass
20C 16.8V	Carrier	5260	Ant1	5259.976	-24000	-4.56	25	Pass
0C 14V	Carrier	5260	Ant1	5259.976	-24000	-4.56	25	Pass
10C 14V	Carrier	5260	Ant1	5259.976	-24000	-4.56	25	Pass
20C 14V	Carrier	5260	Ant1	5259.976	-24000	-4.56	25	Pass
30C 14V	Carrier	5260	Ant1	5259.976	-24000	-4.56	25	Pass
40C 14V	Carrier	5260	Ant1	5259.975	-25000	-4.75	25	Pass
50C 14V	Carrier	5260	Ant1	5259.975	-25000	-4.75	25	Pass
20C 11.2V	Carrier	5500	Ant1	5499.974	-26000	-4.73	25	Pass
20C 14.4V	Carrier	5500	Ant1	5499.974	-26000	-4.73	25	Pass
20C 16.8V	Carrier	5500	Ant1	5499.974	-26000	-4.73	25	Pass
0C 14V	Carrier	5500	Ant1	5499.973	-27000	-4.91	25	Pass
10C 14V	Carrier	5500	Ant1	5499.973	-27000	-4.91	25	Pass
20C 14V	Carrier	5500	Ant1	5499.973	-27000	-4.91	25	Pass
30C 14V	Carrier	5500	Ant1	5499.972	-28000	-5.09	25	Pass
40C 14V	Carrier	5500	Ant1	5499.972	-28000	-5.09	25	Pass
50C 14V	Carrier	5500	Ant1	5499.972	-28000	-5.09	25	Pass
20C 11.2V	Carrier	5745	Ant1	5744.971	-29000	-5.05	25	Pass
20C 14.4V	Carrier	5745	Ant1	5744.971	-29000	-5.05	25	Pass
20C 16.8V	Carrier	5745	Ant1	5744.971	-29000	-5.05	25	Pass
0C 14V	Carrier	5745	Ant1	5744.971	-29000	-5.05	25	Pass
10C 14V	Carrier	5745	Ant1	5744.971	-29000	-5.05	25	Pass
20C 14V	Carrier	5745	Ant1	5744.97	-30000	-5.22	25	Pass
30C 14V	Carrier	5745	Ant1	5744.971	-29000	-5.05	25	Pass
40C 14V	Carrier	5745	Ant1	5744.97	-30000	-5.22	25	Pass
50C 14V	Carrier	5745	Ant1	5744.97	-30000	-5.22	25	Pass

A.6. Dynamic Frequency Selection

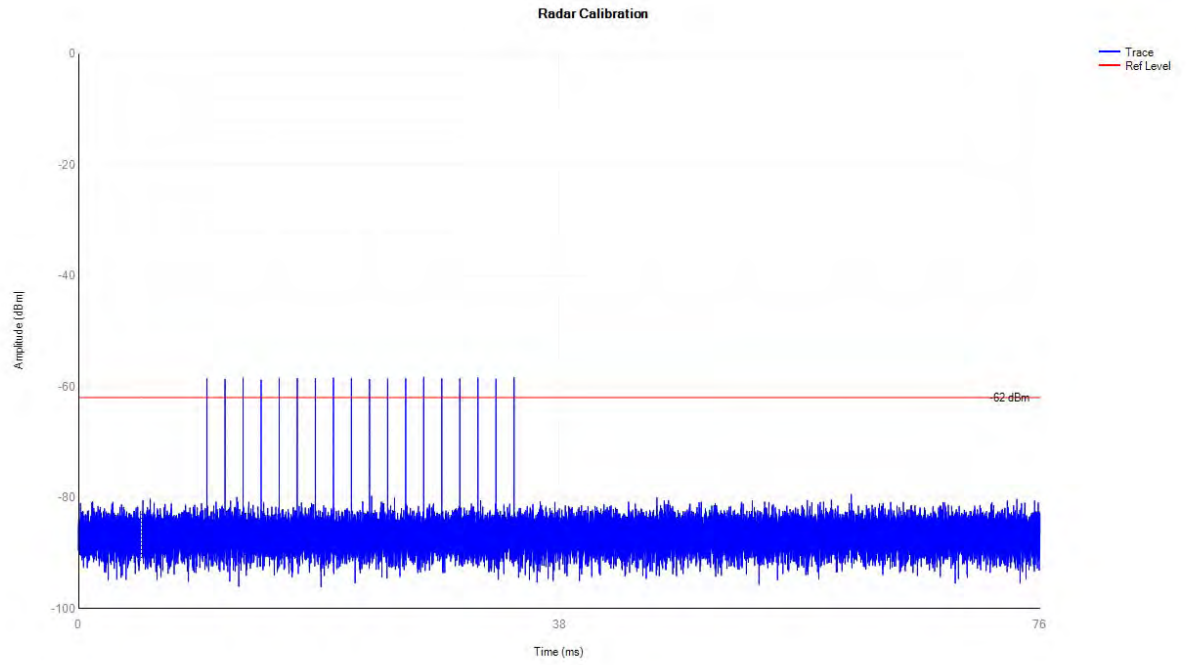
Detection Thresholds

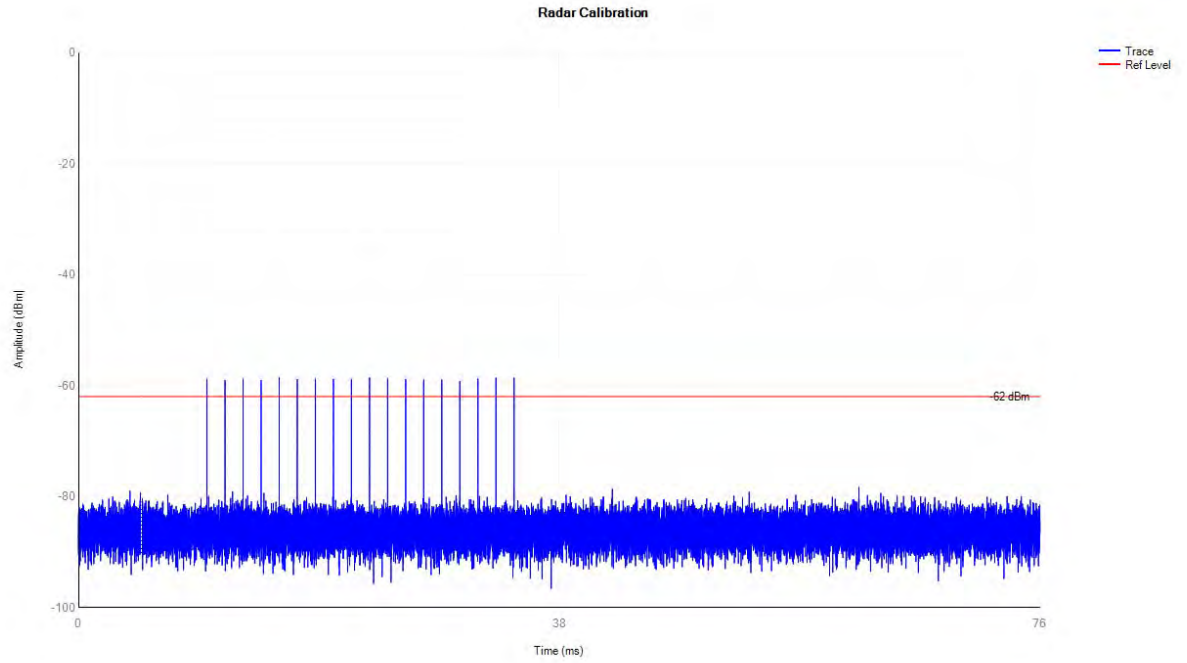
Mode	Frequency (MHz)	Type	Result	Verdict
a	5320	DFS_FCC_T0	See test Graph	Pass
a	5500	DFS_FCC_T0	See test Graph	Pass
ac80	5290	DFS_FCC_T0	See test Graph	Pass
ac80	5530	DFS_FCC_T0	See test Graph	Pass

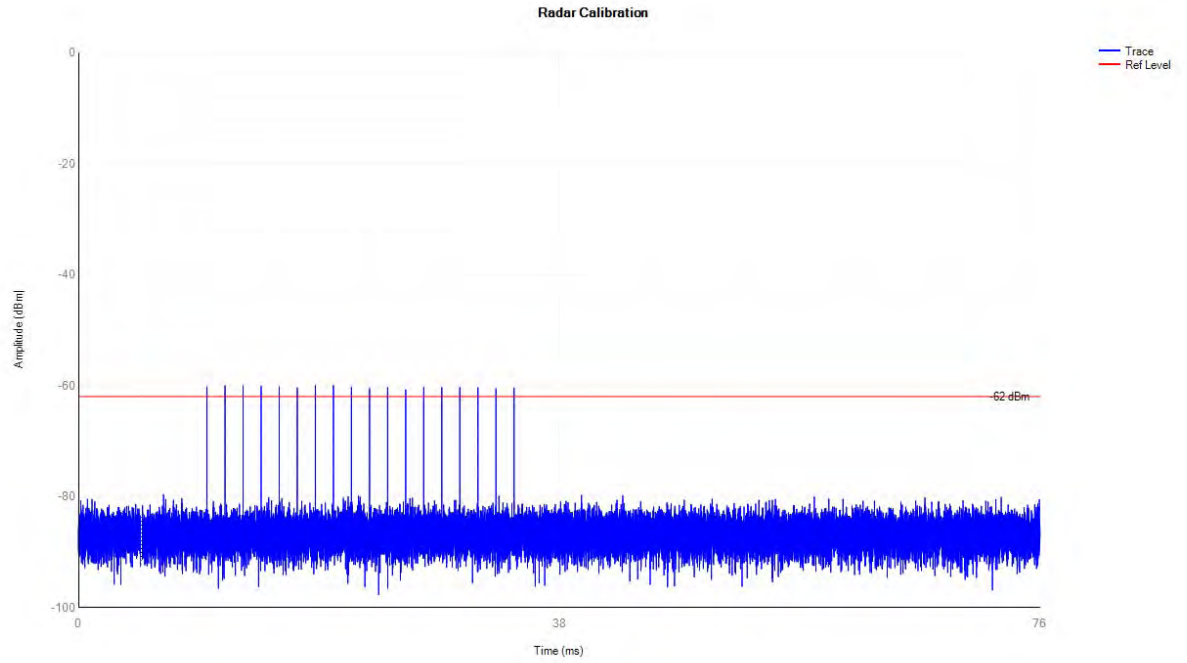
Test Graphs
5320MHz DFS_FCC_T0



5500MHz DFS_FCC_T0



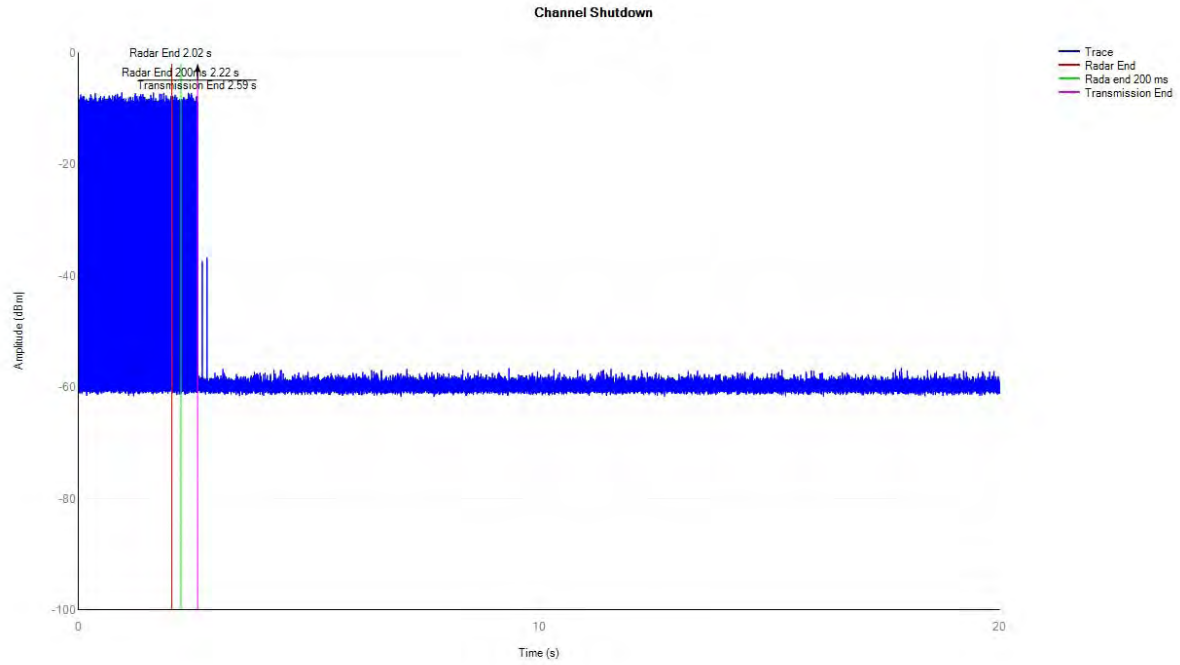
5290MHz DFS_FCC_T0


5530MHz DFS_FCC_T0


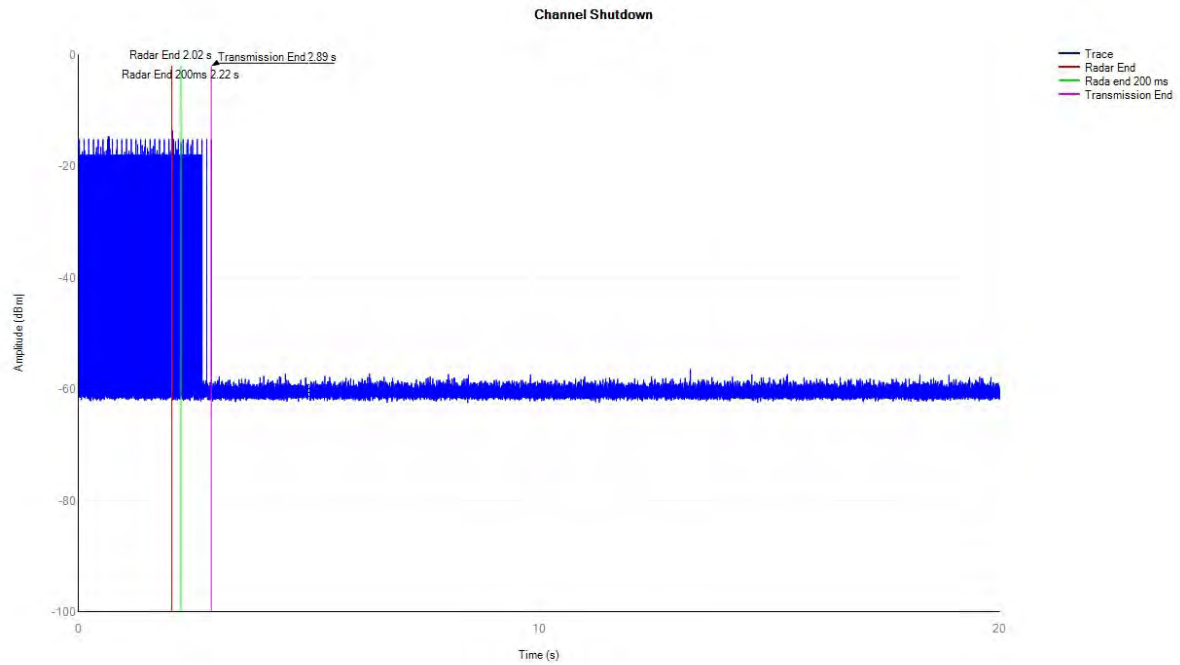
Channel Move Time and Channel Closing Transmission Time

Mode	Frequency (MHz)	Channel Move Time (s)	Limit Channel Move Time (s)	Close Transmission Time (s)	Limit Close Transmission Time (s)	Close Transmission Time after 200ms(s)	Limit Close Transmission Time after 200ms (s)	Verdict
a	5320	0.563	10	0.082	0.26	0.054	0.06	Pass
a	5500	0.862	10	0.061	0.26	0.041	0.06	Pass
ac80	5290	0.986	10	0.062	0.26	0.047	0.06	Pass
ac80	5530	0.862	10	0.061	0.26	0.041	0.06	Pass

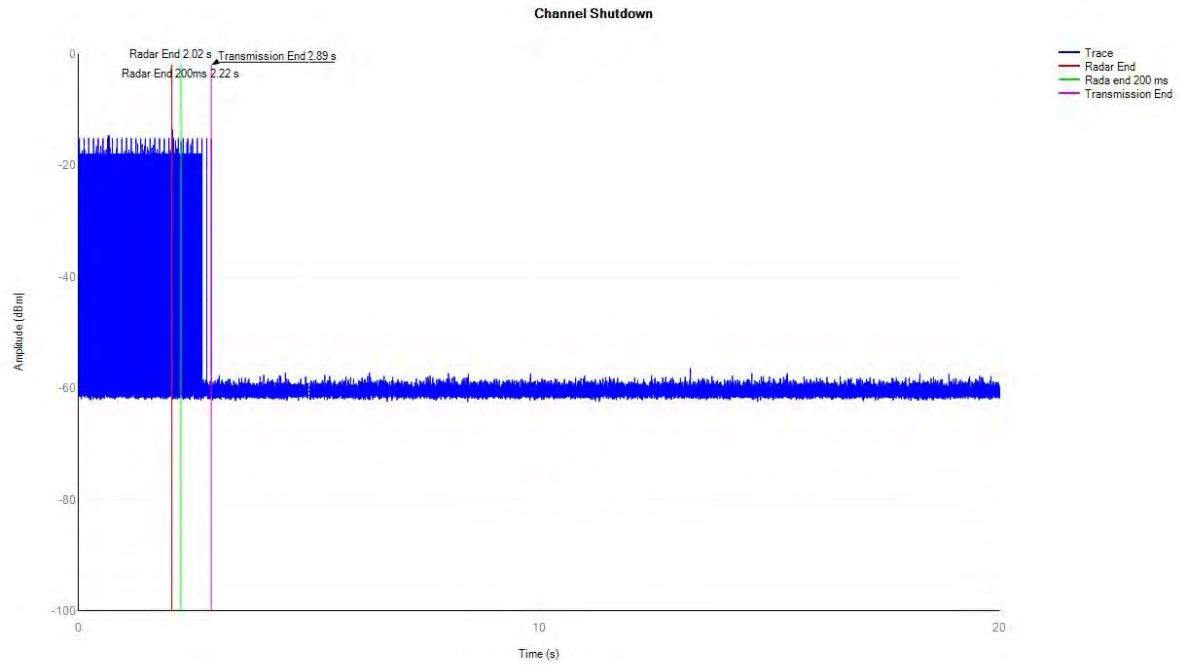
Test Graphs
a 5320MHz Shutdown



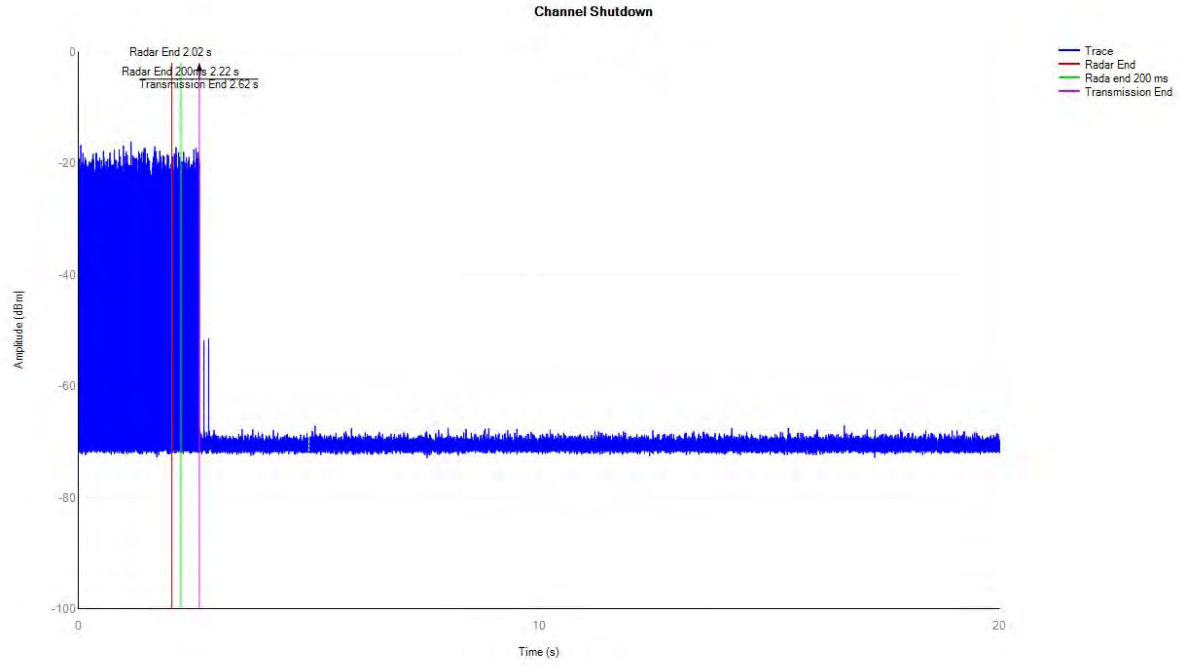
a 5500MHz Shutdown



ac80 5290MHz Shutdown



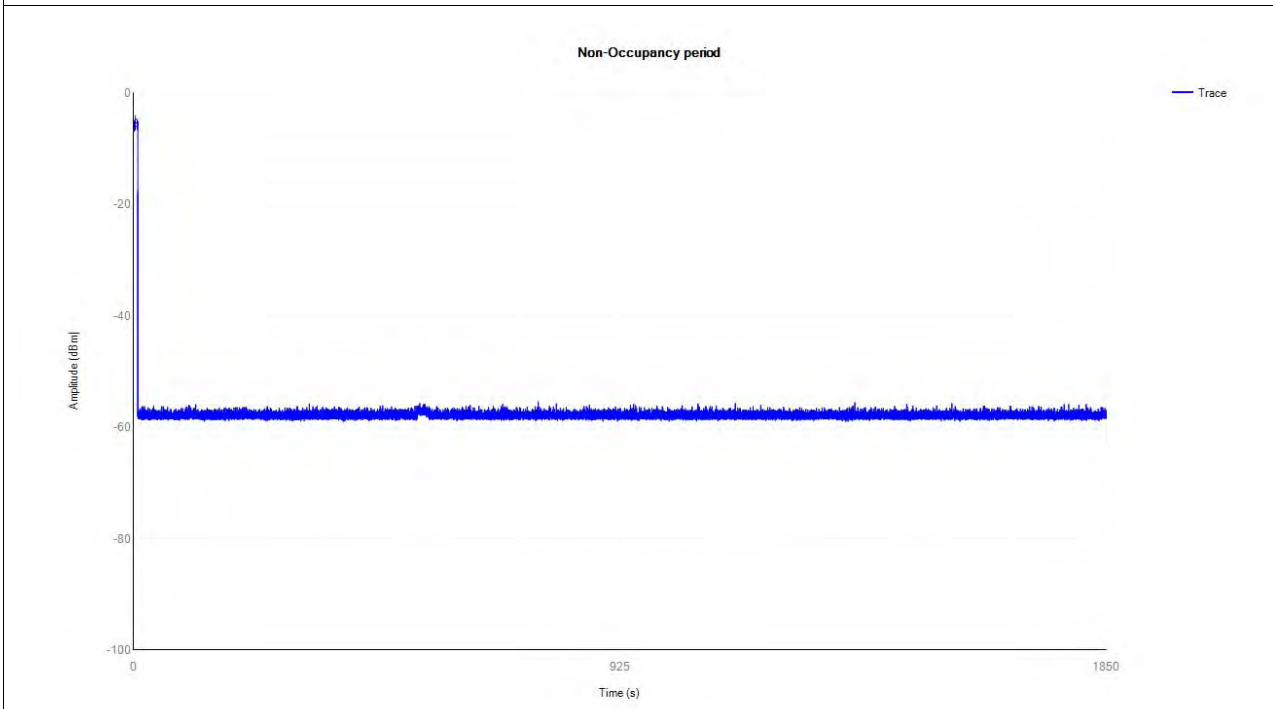
ac80 5530MHz Shutdown



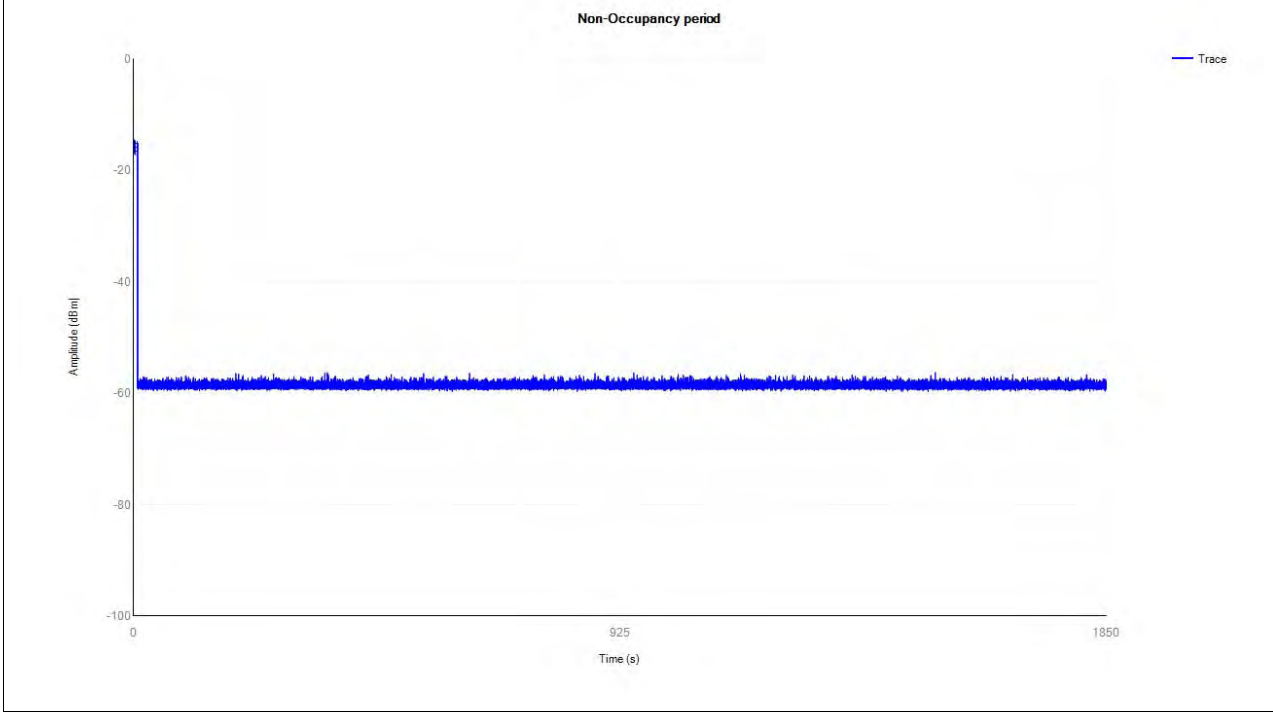
Non-Occupancy Period

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

Test Graphs
a 5320MHz Non-Occupancy



a 5500MHz Non-Occupancy



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 + PC + PC adapter + USB cable +WIFI TX

Test voltage: AC 120V/60Hz

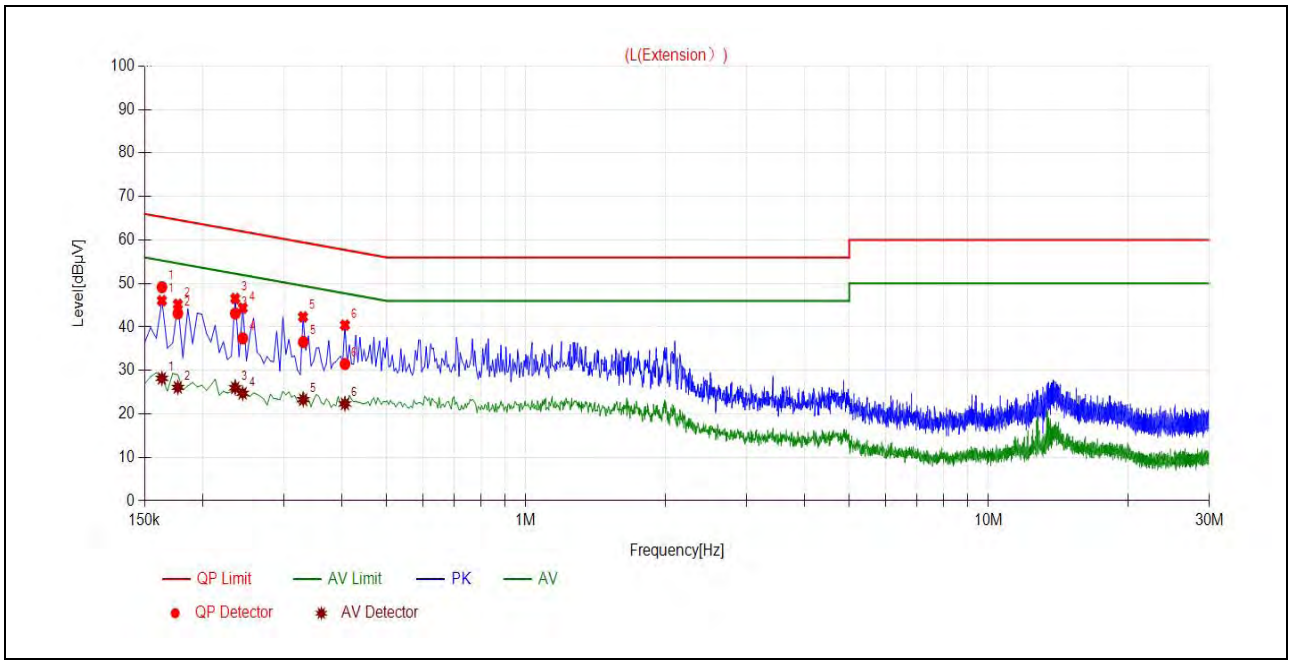
The measurement results are obtained as below:

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

U_R: Receiver Reading

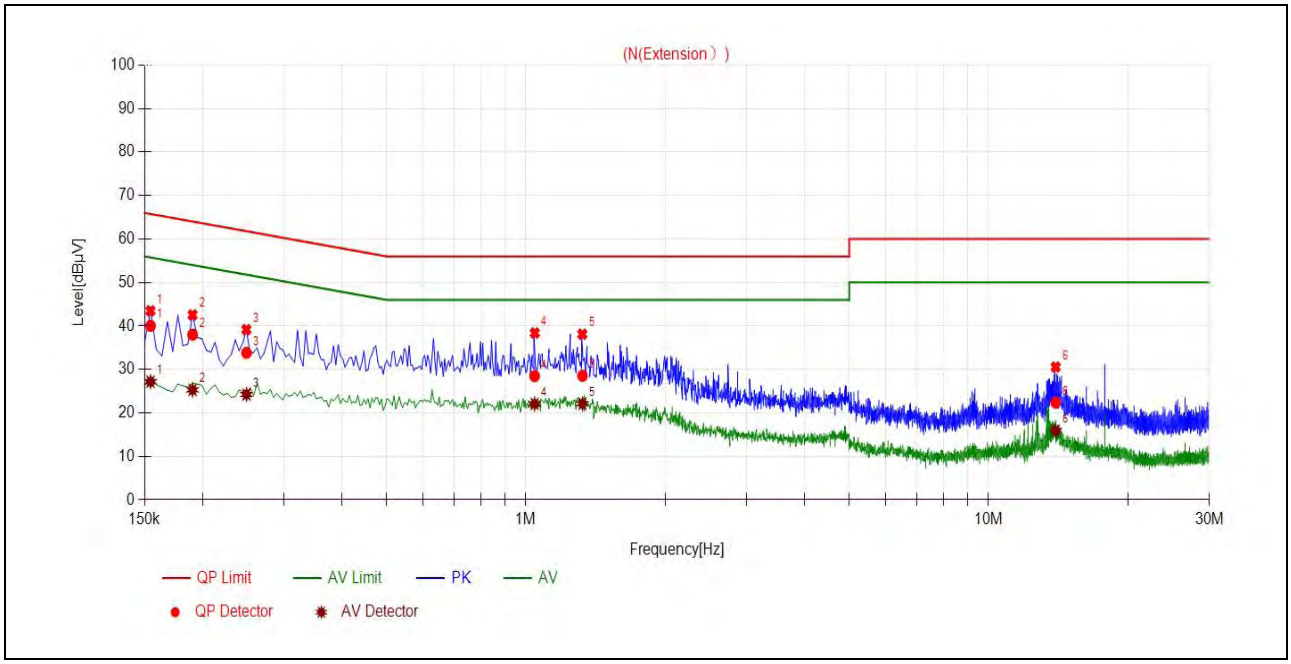
A_{Factor}: Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1635	49.14	28.18	65.28	55.28	Line	PASS
2	0.1770	43.11	26.10	64.62	54.62		PASS
3	0.2355	43.08	26.01	62.26	52.26		PASS
4	0.2444	37.39	24.74	61.95	51.95		PASS
5	0.3303	36.54	23.26	59.44	49.44		PASS
6	0.4065	31.46	22.29	57.72	47.72		PASS



(N Phase)

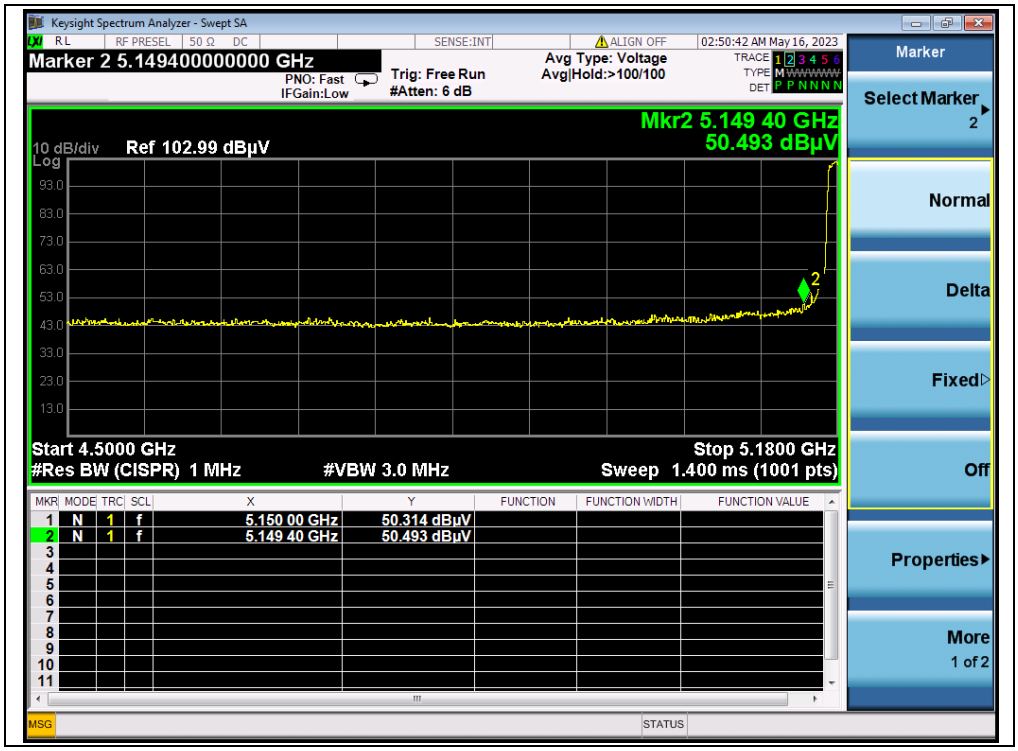
No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1545	40.01	27.17	65.75	55.75	Neutral	PASS
2	0.1904	38.00	25.29	64.02	54.02		PASS
3	0.2491	33.82	24.23	61.79	51.79		PASS
4	1.0446	28.47	22.06	56.00	46.00		PASS
5	1.3254	28.54	22.07	56.00	46.00		PASS
6	13.9624	22.39	15.89	60.00	50.00		PASS

A.8. Restricted Frequency Bands

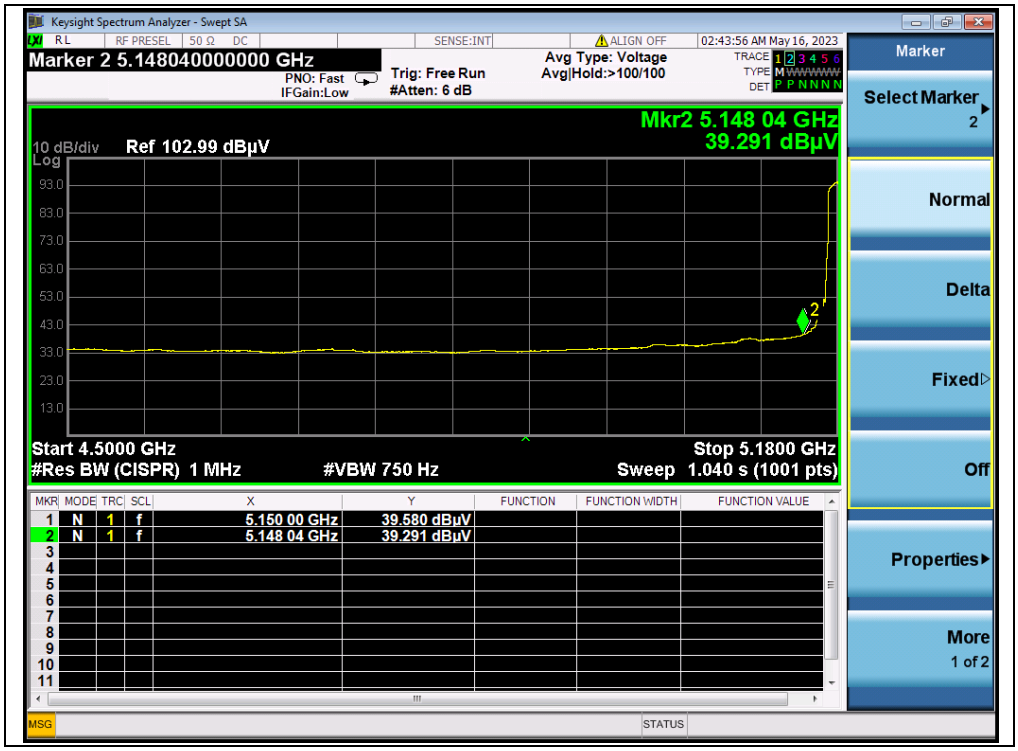
The lowest and highest channels are tested to verify the Restricted Frequency Bands.
The measurement results are obtained as below:
E [dBμV/m] =U_R + A_T + A_{Factor} [dB]; A_T =$L_{Cable\ loss}$ [dB]-G_{preamp} [dB]
A_T: Total correction Factor except Antenna
U_R: Receiver Reading
G_{preamp}: Preamplifier 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 (dBμV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
36	5149.40	PK	50.49	-19.54	32.20	63.15	74	PASS
36	5150.00	AV	39.58	-19.54	32.20	52.24	54	PASS
64	5352.50	PK	48.74	-18.80	32.20	62.14	74	PASS
64	5353.15	AV	38.49	-18.80	32.20	51.89	54	PASS
100	5468.86	PK	49.02	-19.20	32.20	62.02	68.23	PASS
100	5460.00	AV	38.50	-19.20	32.20	51.50	54	PASS
144	5726.40	PK	49.11	-19.20	32.20	62.11	68.23	PASS
149	5725.00	PK	59.40	-19.01	32.20	72.59	122.23	PASS
165	5850.00	PK	46.64	-19.01	32.20	59.83	122.23	PASS

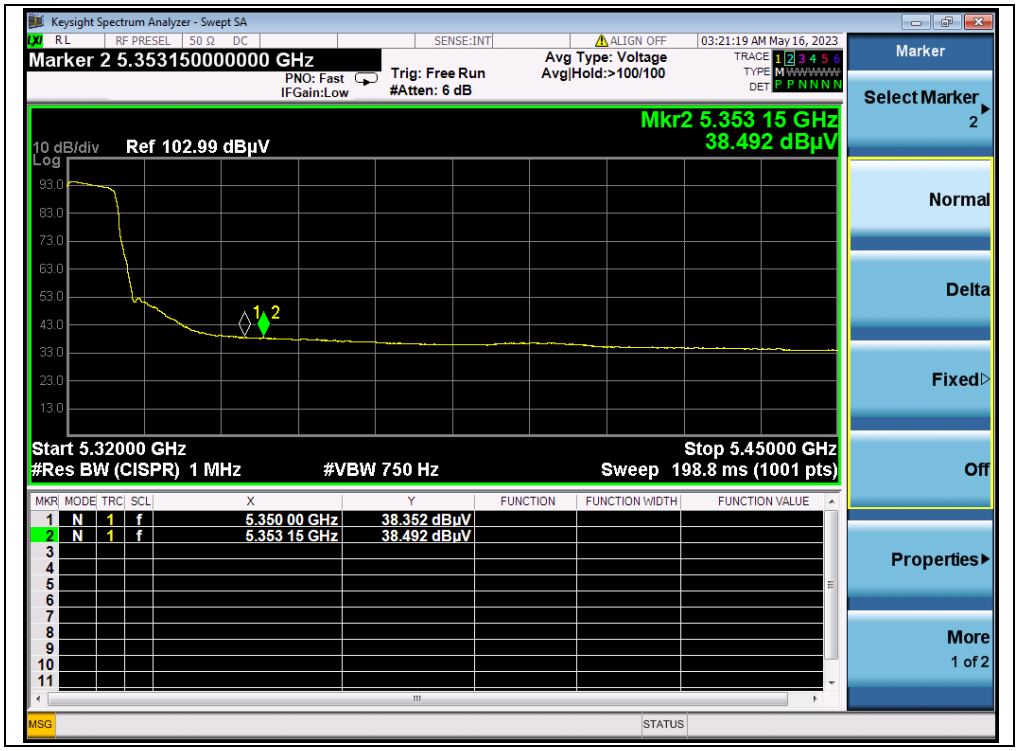


(PEAK, Channel 36, 802.11a)

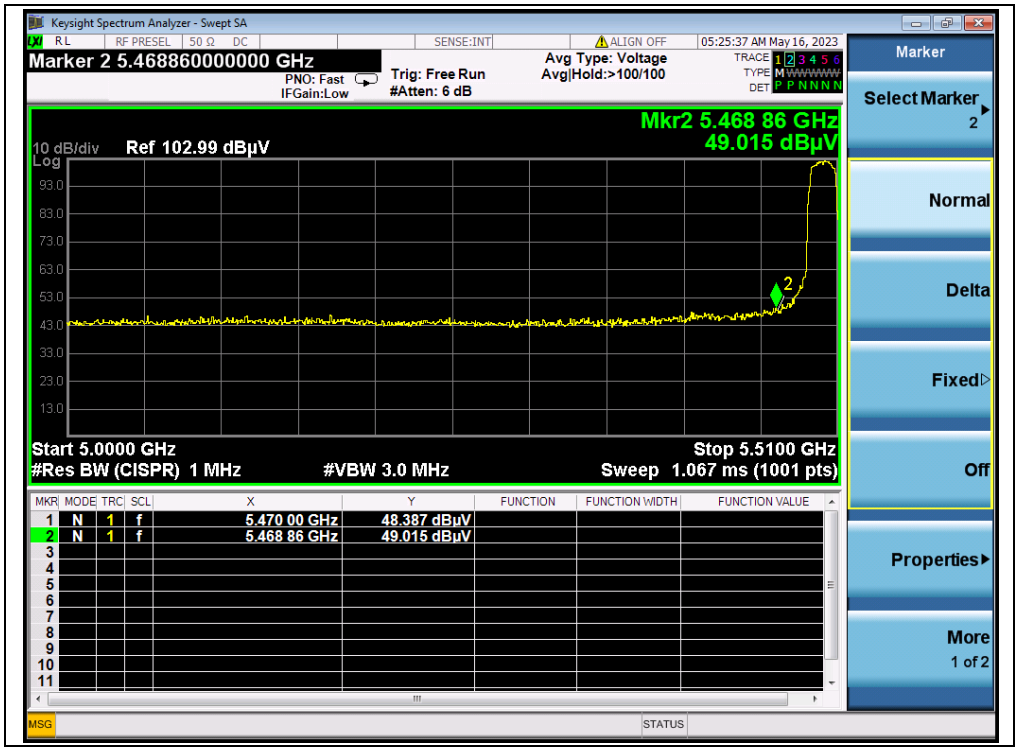


(AVERAGE, Channel 36, 802.11a)

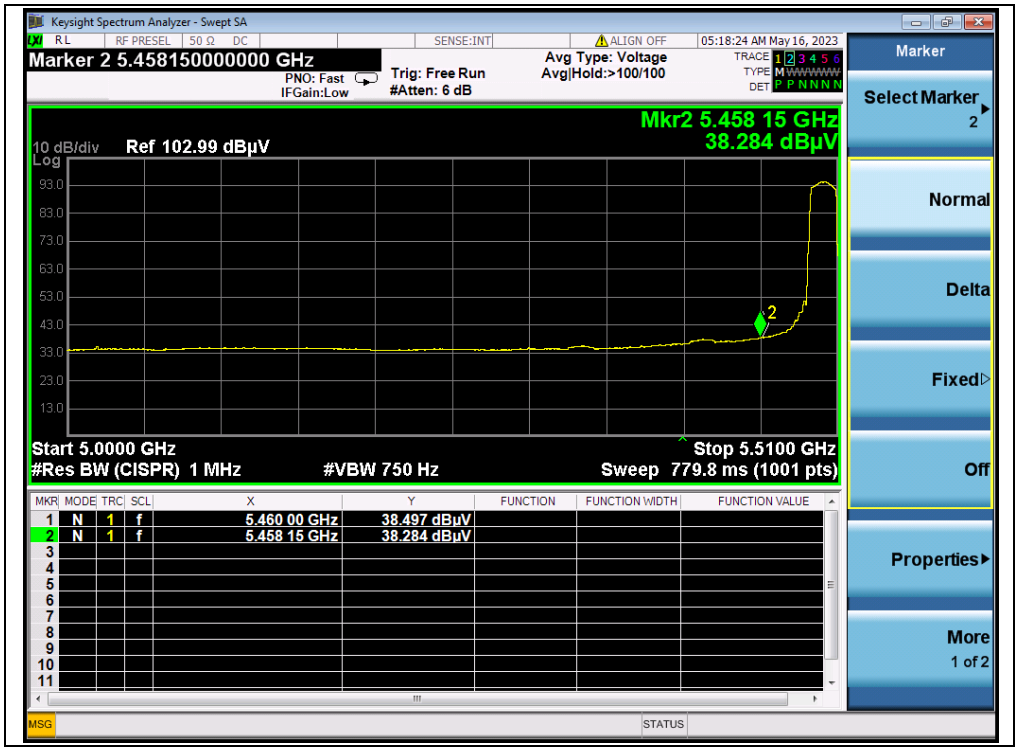
(PEAK, Channel 64, 802.11a)



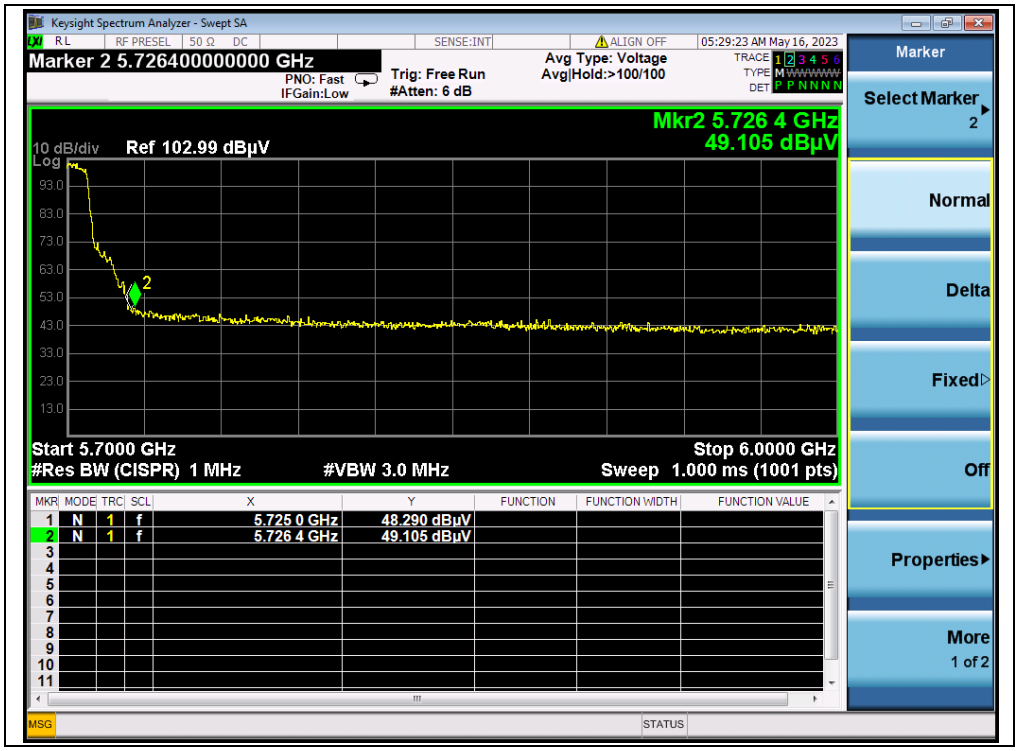
(AVERAGE, Channel 64, 802.11a)



(PEAK, Channel 100, 802.11a)



(AVERAGE, Channel 100, 802.11a)



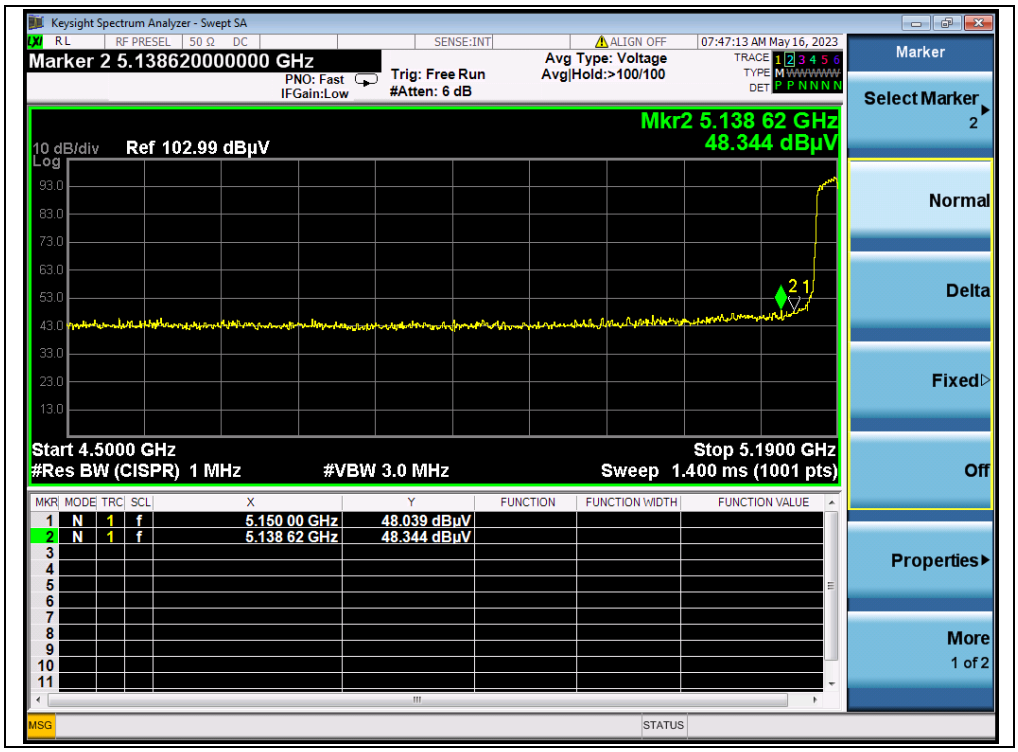
(PEAK, Channel 144, 802.11a)

(PEAK, Channel 149, 802.11a)

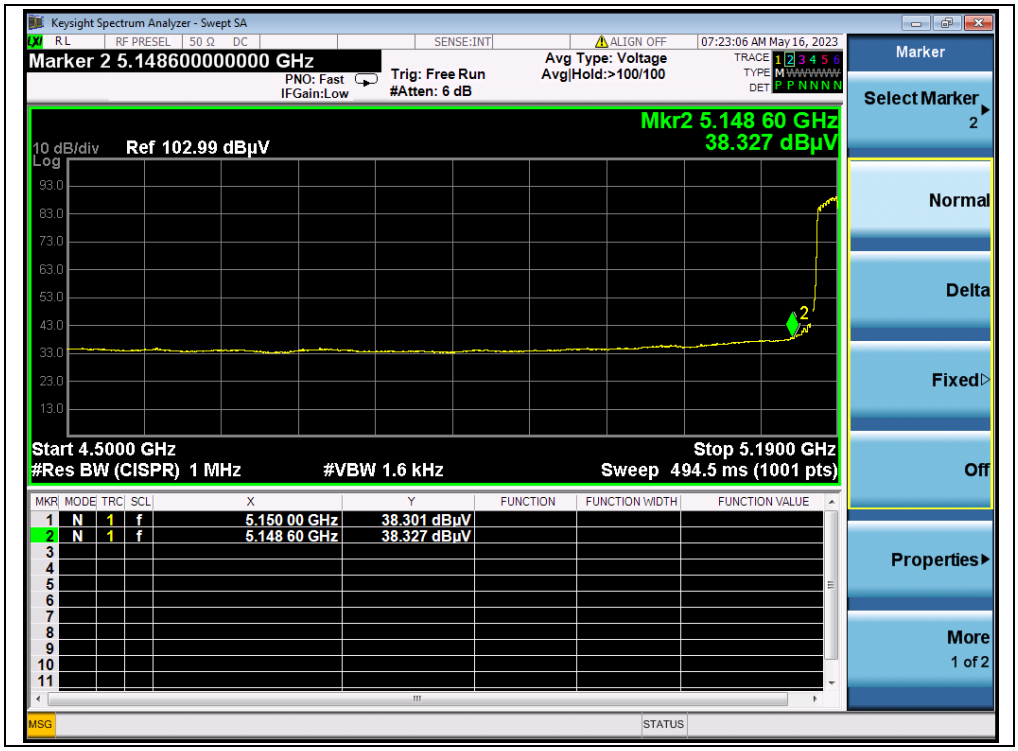
(PEAK, Channel 165, 802.11a)

802.11n (HT40) Mode

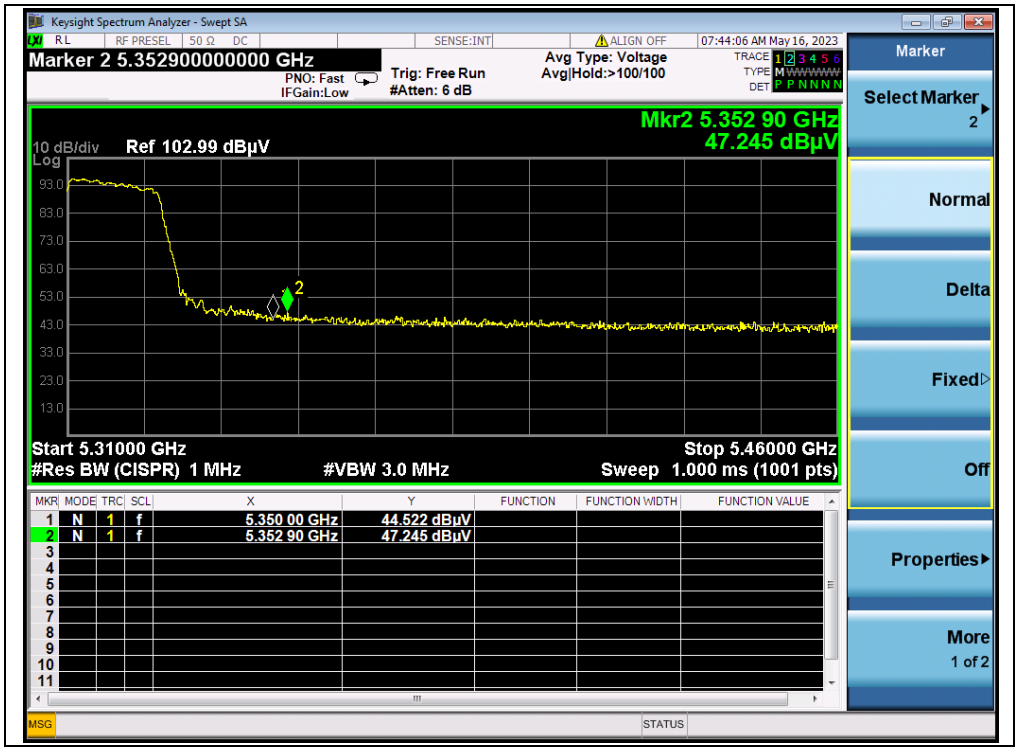
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBμV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
38	5138.62	PK	48.34	-19.54	32.20	61.00	74	PASS
38	5148.60	AV	38.33	-19.54	32.20	50.99	54	PASS
62	5352.90	PK	47.25	-18.80	32.20	60.65	74	PASS
62	5350.65	AV	37.96	-18.80	32.20	51.36	54	PASS
102	5423.30	PK	47.75	-19.20	32.20	60.75	74	PASS
102	5457.98	AV	37.31	-19.20	32.20	50.31	54	PASS
142	5726.10	PK	47.21	-19.20	32.20	60.21	68.23	PASS
151	5725.00	PK	56.37	-19.01	32.20	69.56	122.23	PASS
159	5850.00	PK	44.97	-19.01	32.20	58.16	122.23	PASS



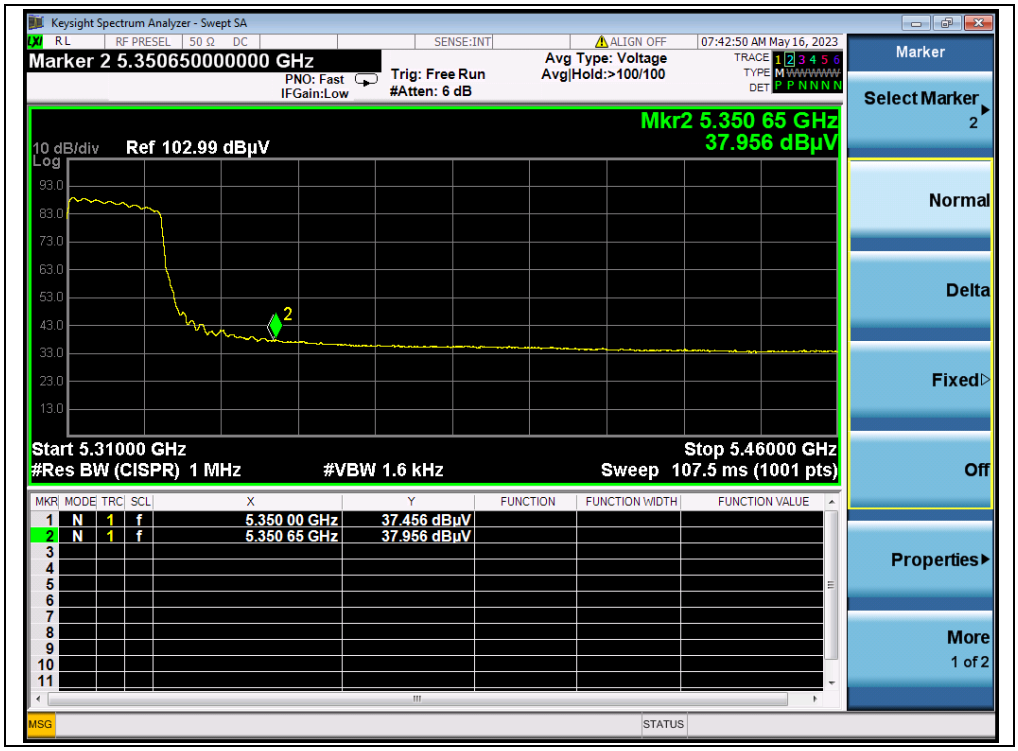
(PEAK, Channel 38, 802.11n (HT40))



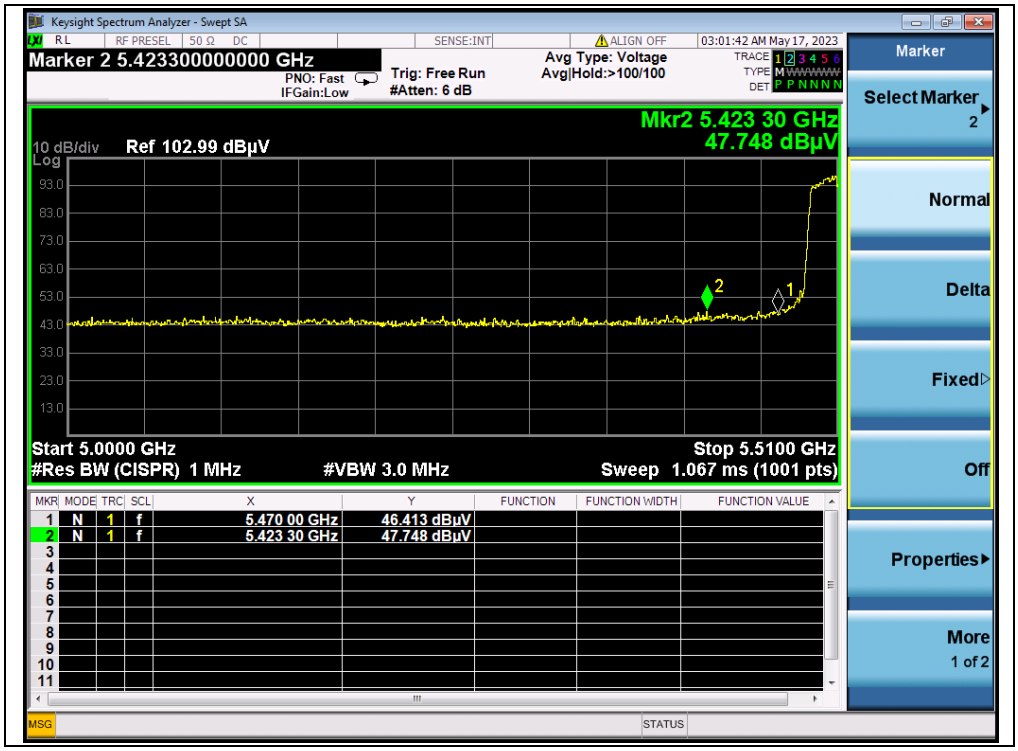
(AVERAGE, Channel 38, 802.11n (HT40))



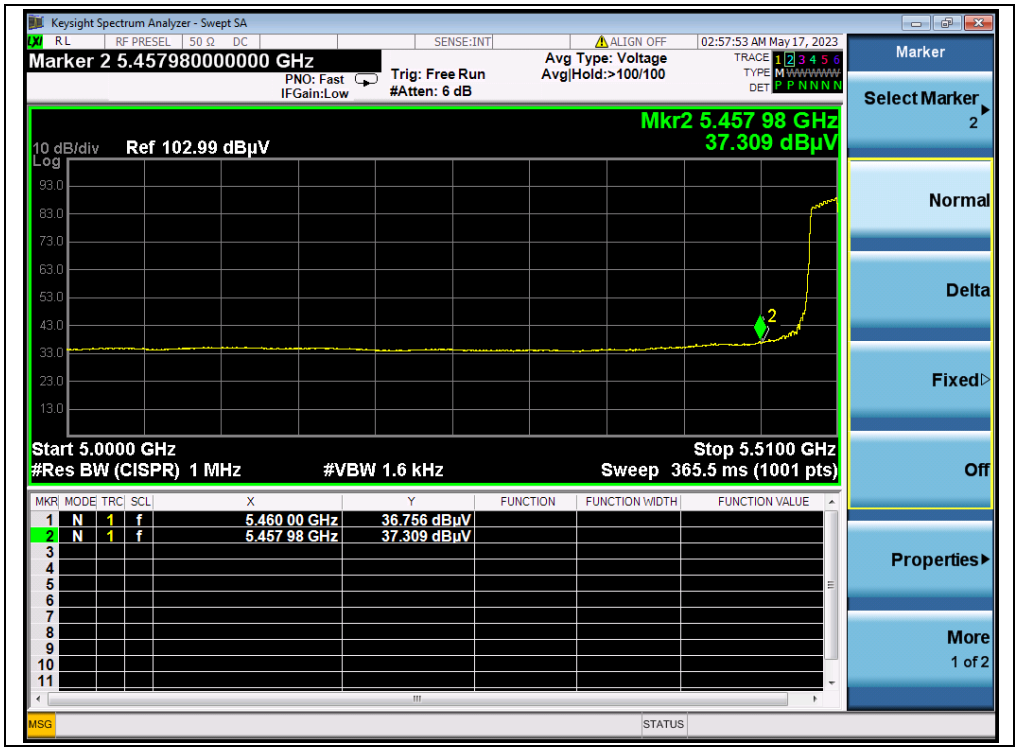
(PEAK, Channel 62, 802.11n (HT40))



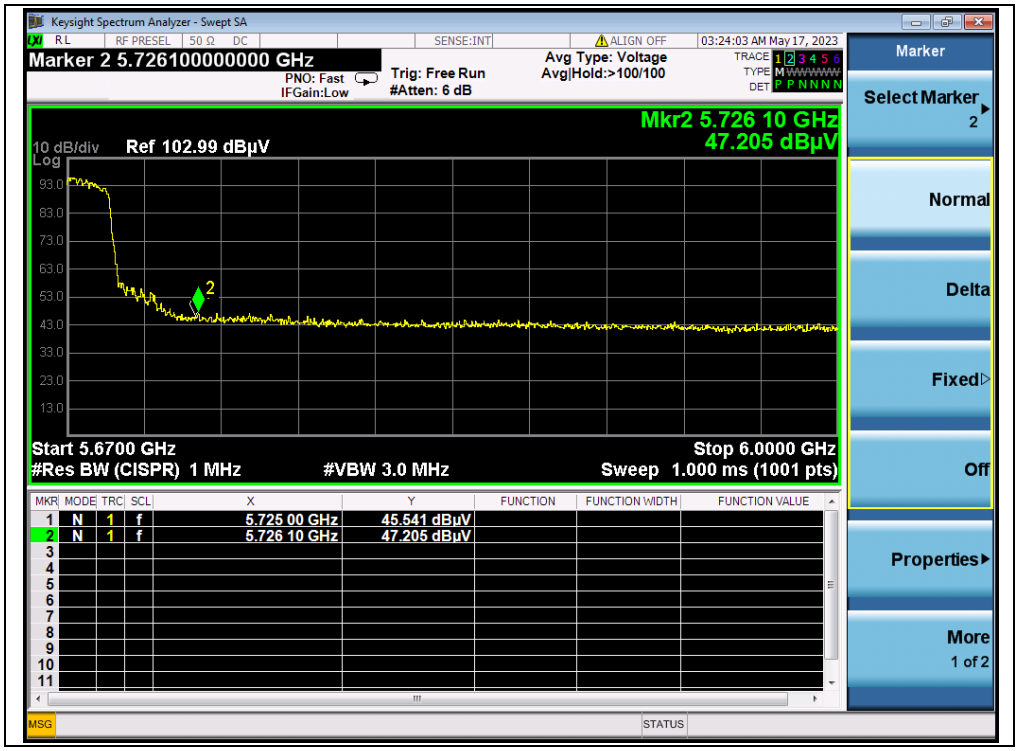
(AVERAGE, Channel 62, 802.11n (HT40))



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



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



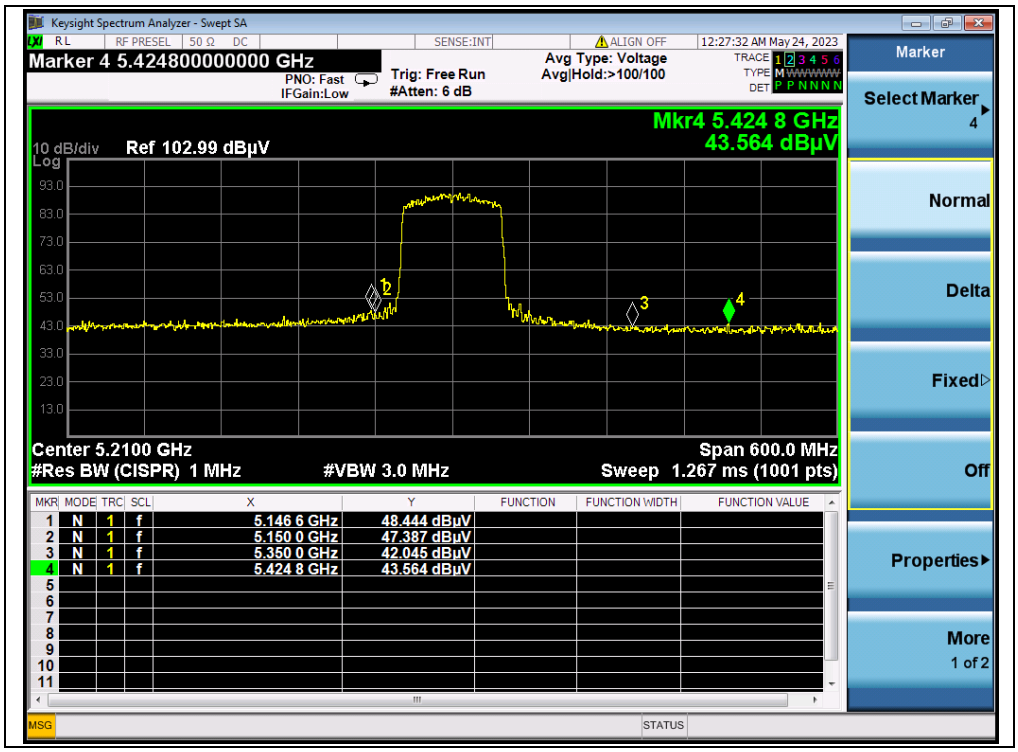
(PEAK, Channel 142, 802.11n (HT40))

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

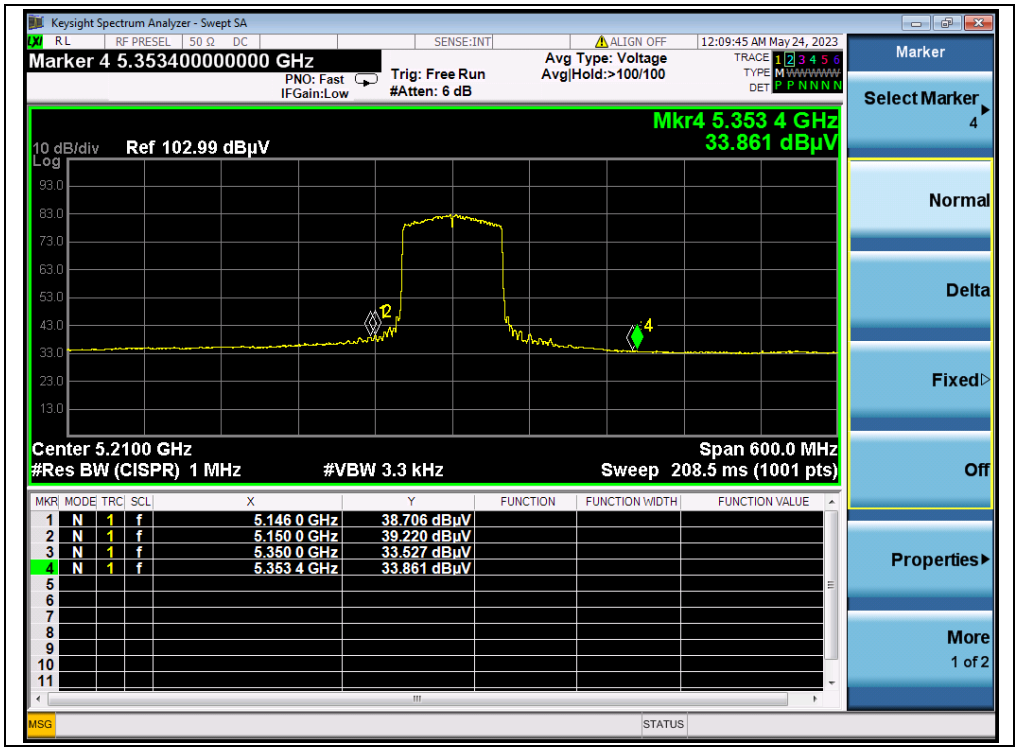
(PEAK, Channel 159, 802.11n (HT40))

802.11ac (VHT80) Mode

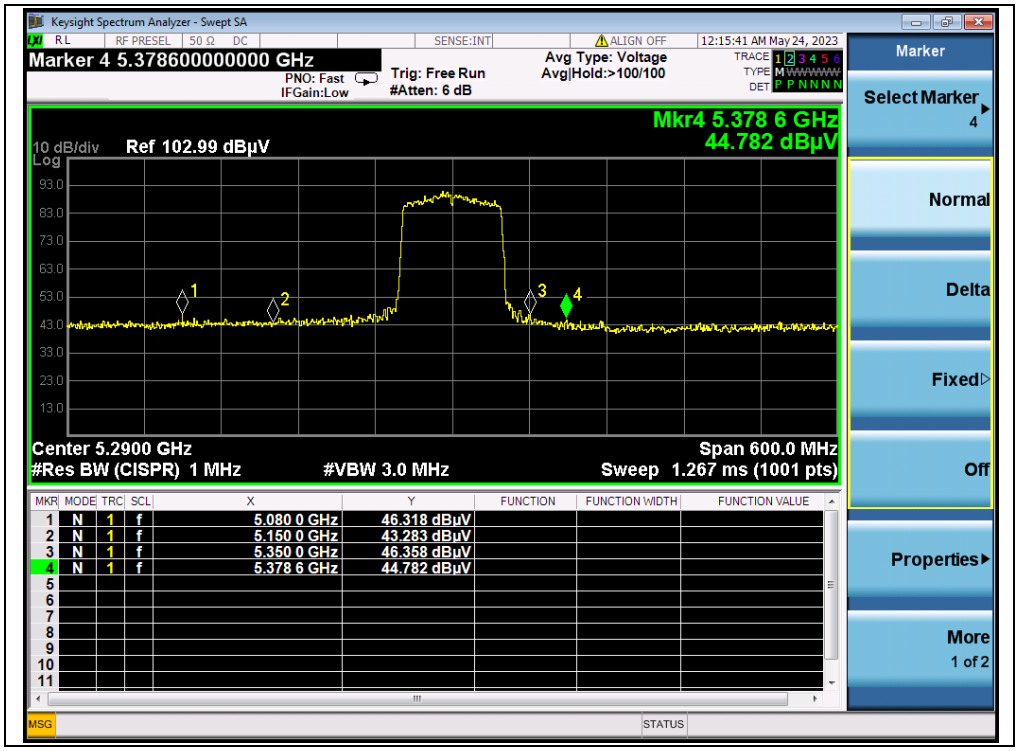
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBμV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
42	5146.60	PK	48.44	-19.54	32.20	61.10	74	PASS
42	5150.00	AV	39.22	-19.54	32.20	51.88	54	PASS
58	5350.00	PK	46.36	-18.80	32.20	59.76	74	PASS
58	5350.00	AV	38.53	-18.80	32.20	51.93	54	PASS
106	5464.82	PK	47.79	-19.20	32.20	60.79	68.23	PASS
106	5457.93	AV	38.91	-19.20	32.20	51.91	54	PASS
138	5762.31	PK	45.58	-19.20	32.20	58.58	68.23	PASS
155	5720.00	PK	54.93	-19.01	32.20	68.12	110.83	PASS
155	5850.00	PK	47.73	-19.01	32.20	60.92	122.23	PASS



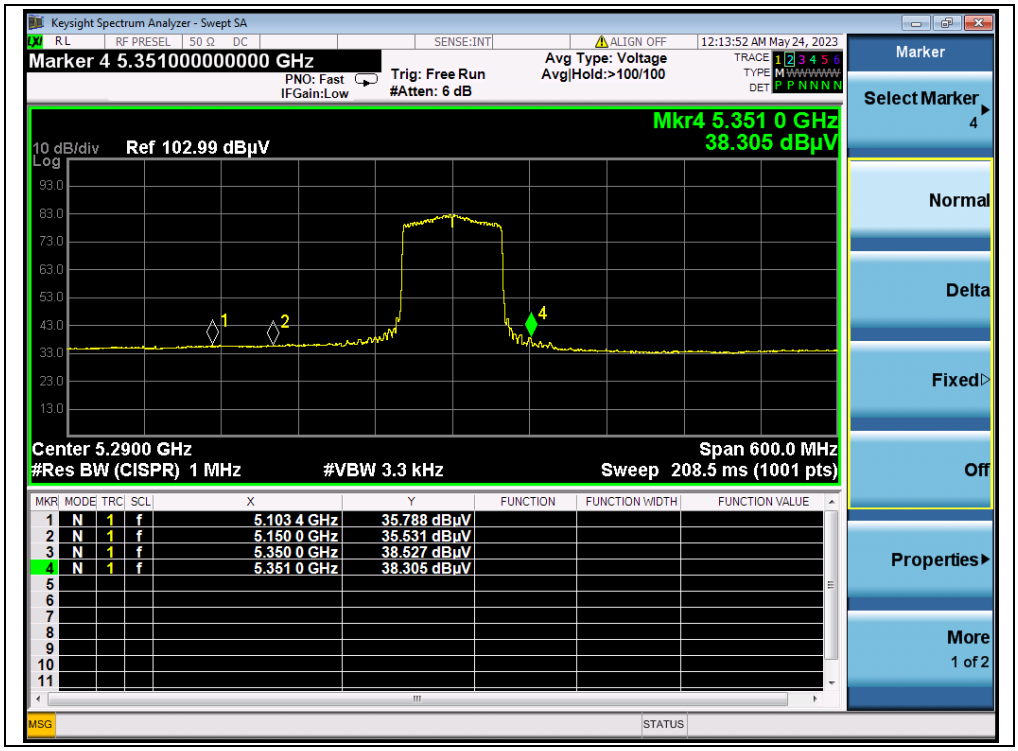
(PEAK, Channel 42, 802.11ac (VHT80))



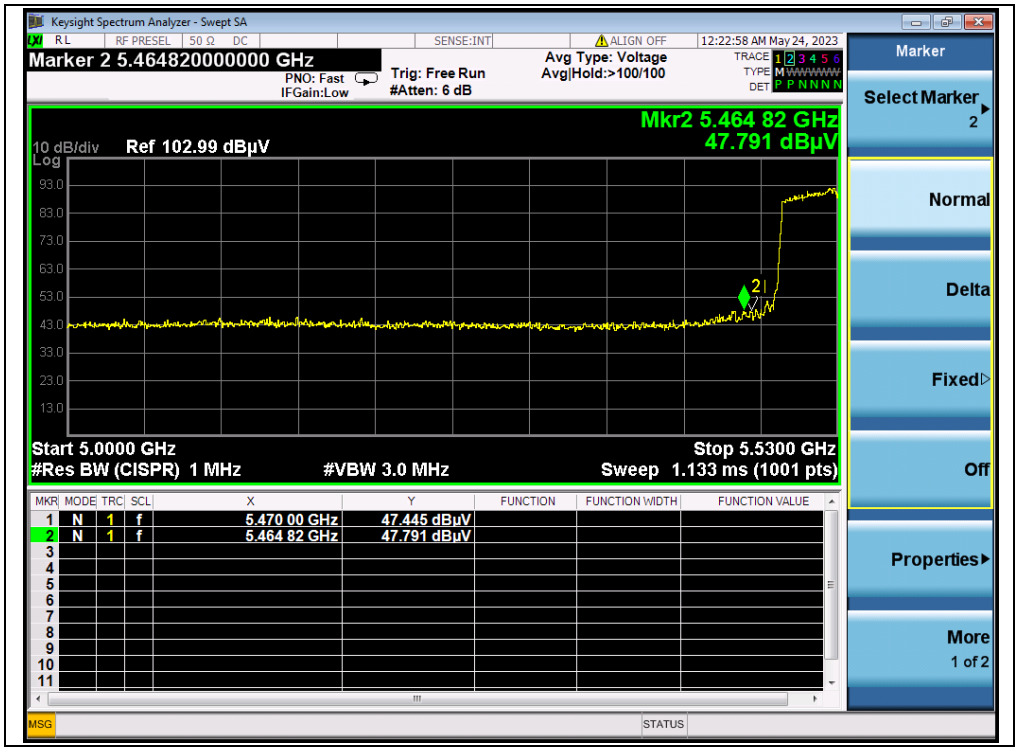
(AVERAGE, Channel 42, 802.11ac (VHT80))



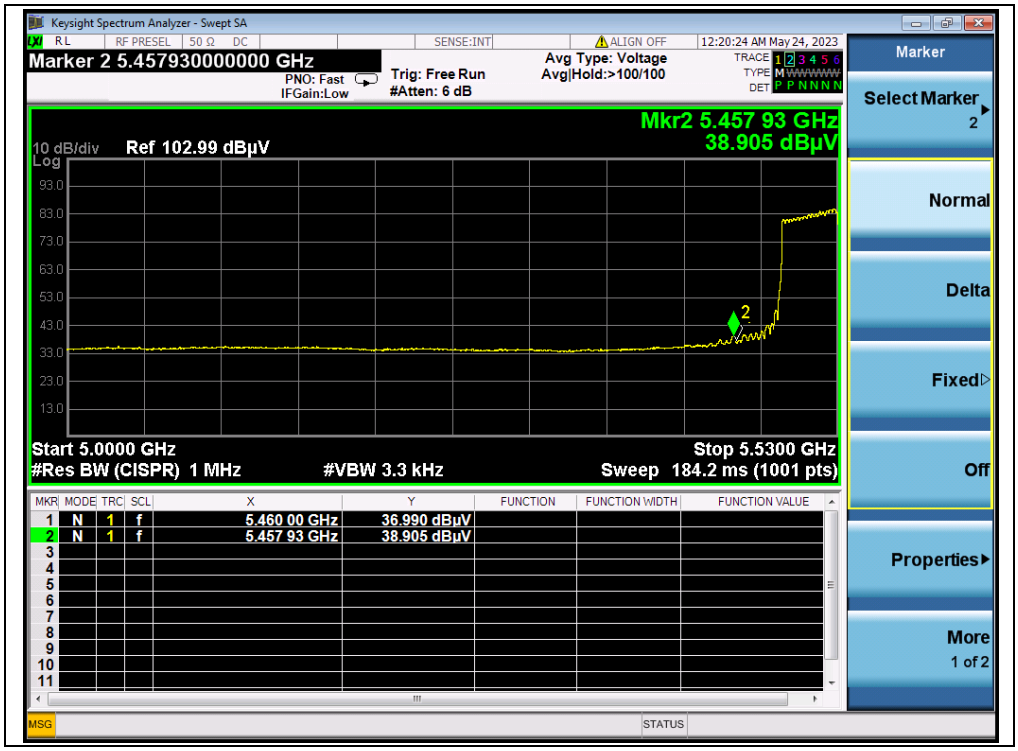
(PEAK, Channel 58, 802.11ac (VHT80))



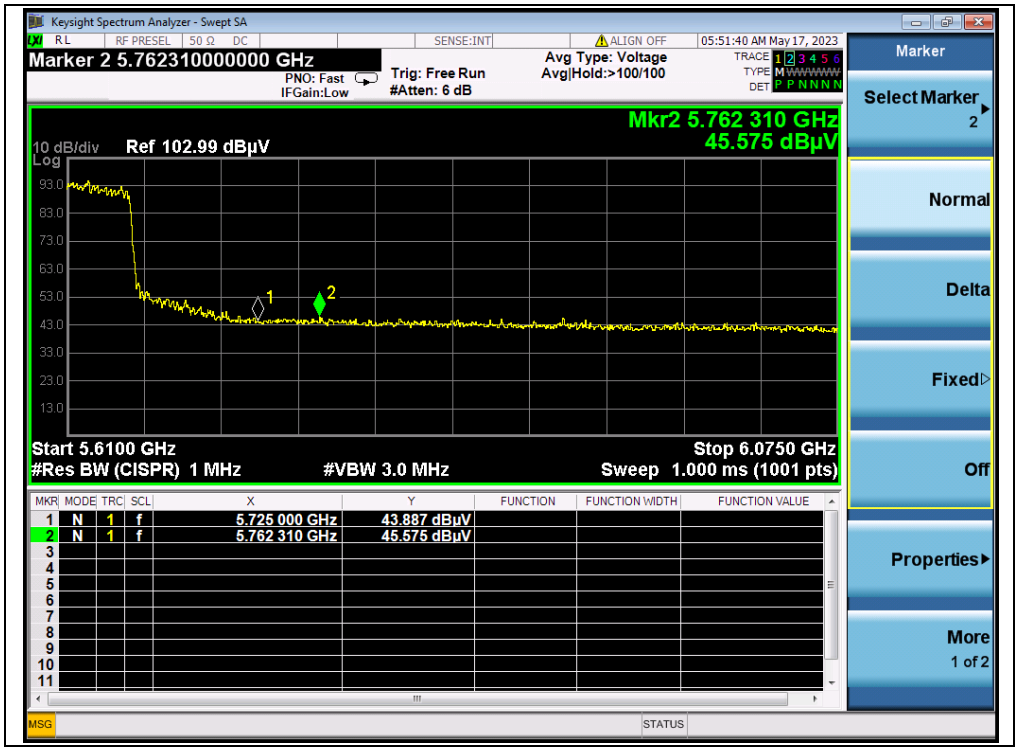
(AVERAGE, Channel 58, 802.11ac (VHT80))



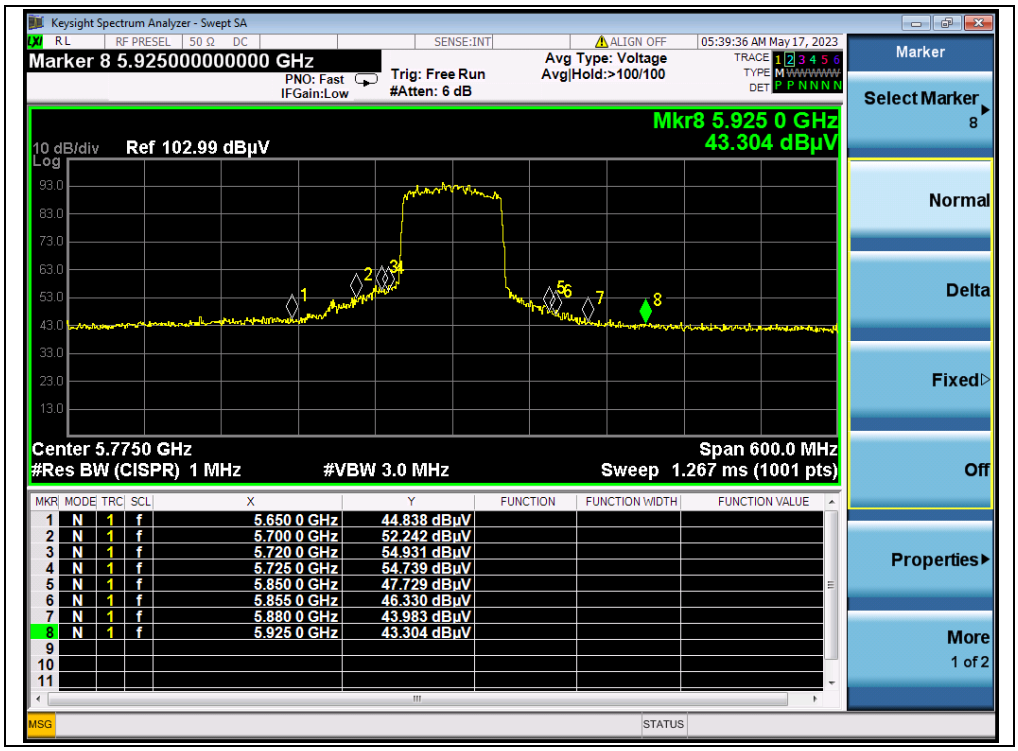
(PEAK, Channel 106, 802.11ac (VHT80))



(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:

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

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.

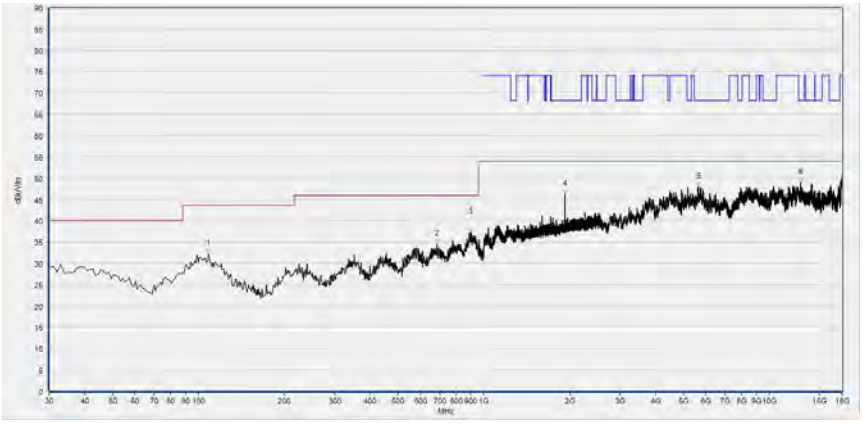
Note2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

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.

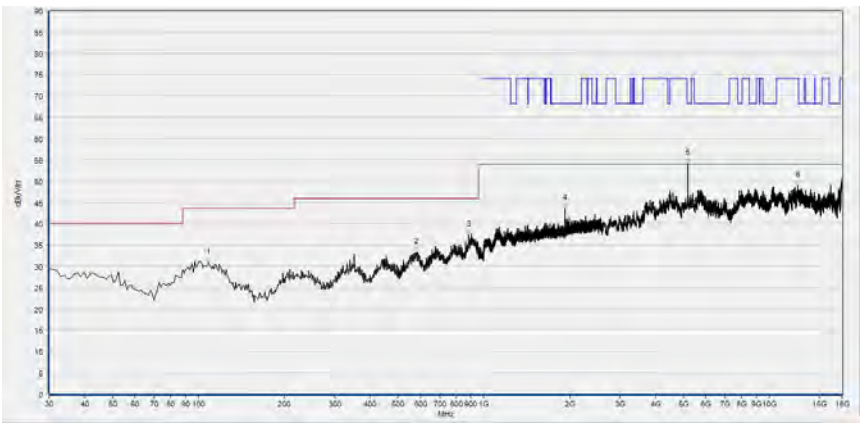
802.11a Mode

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	32.23	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
685.405	34.55	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
899.019	37.19	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1922.974	46.26	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5643.649	47.88	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12898.500	48.89	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

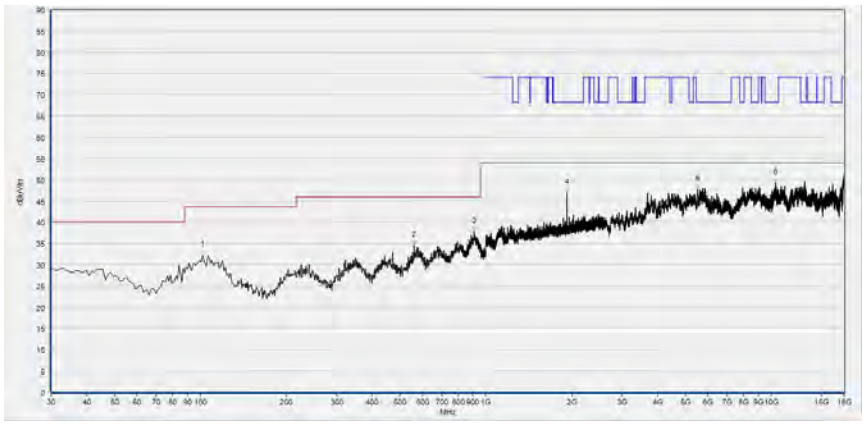
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
108.649	30.83	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
579.570	33.32	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
885.425	37.36	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1922.974	43.55	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5181.500	54.09	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12602.761	48.94	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

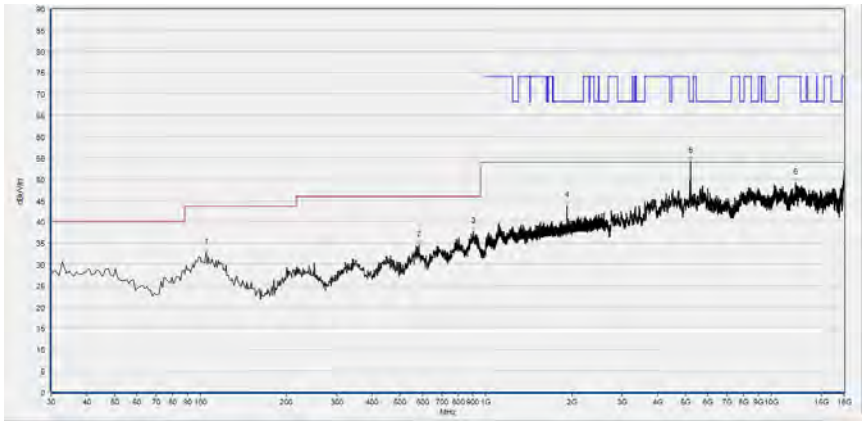
(Antenna Vertical, 30MHz to 18GHz)

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
101.852	32.18	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
561.121	34.46	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
908.729	37.82	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1922.974	47.00	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5532.747	47.79	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10347.750	49.21	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

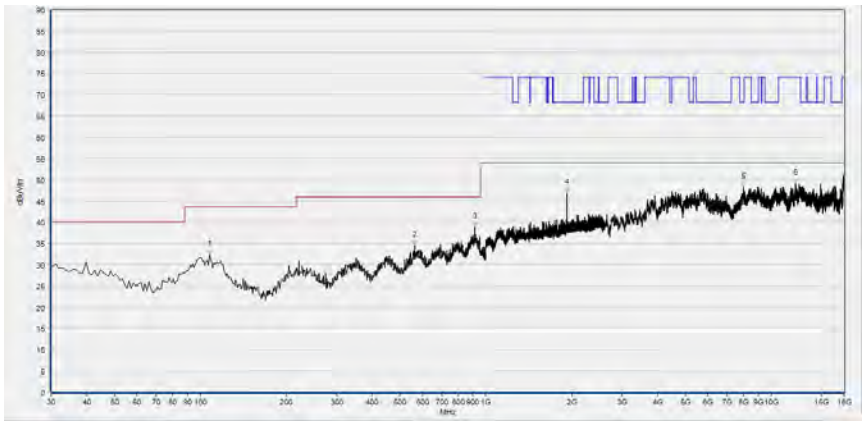
(Antenna Horizontal, 30MHz to 18GHz)



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
104.765	32.65	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
583.453	34.60	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
903.874	37.78	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1922.974	43.70	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5221.604	54.18	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12165.313	49.15	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

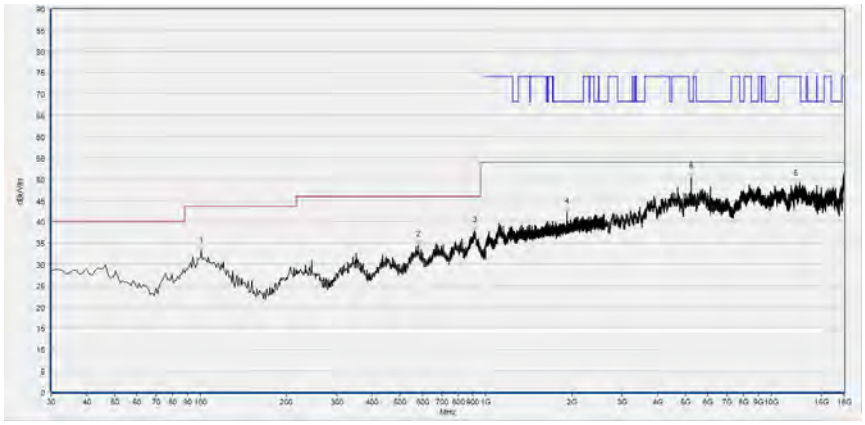
(Antenna Vertical, 30MHz to 18GHz)

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
107.678	32.31	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
563.063	34.52	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
913.584	38.90	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1922.441	46.91	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
7981.836	48.24	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12165.313	49.08	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

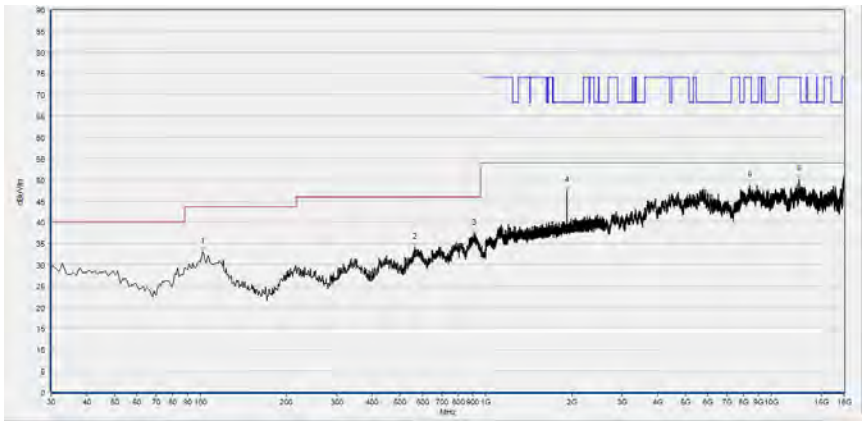
(Antenna Horizontal, 30MHz to 18GHz)



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	33.13	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
581.512	34.60	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
912.613	37.94	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1923.508	42.29	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5240.088	50.41	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12152.991	48.78	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

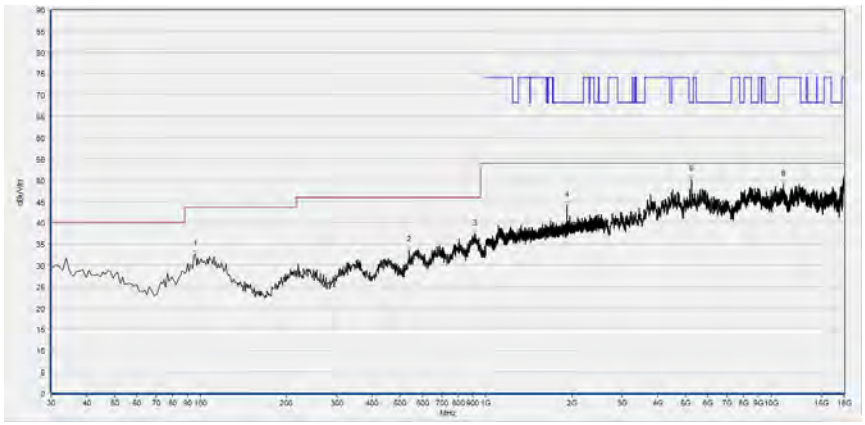
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 52



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
101.852	32.97	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
565.005	34.08	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
909.700	37.29	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1922.974	47.40	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8425.445	48.58	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12516.503	50.06	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

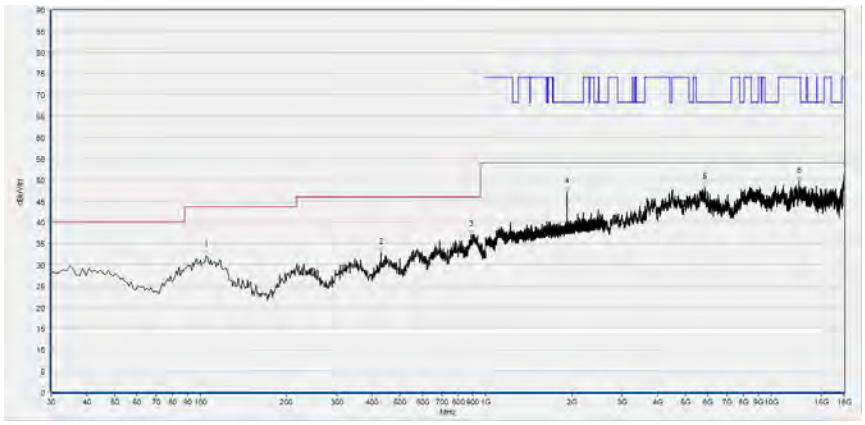
(Antenna Horizontal, 30MHz to 18GHz)



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	32.43	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
538.789	33.56	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
914.555	37.37	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1922.441	44.00	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5258.572	50.07	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
11043.969	48.96	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

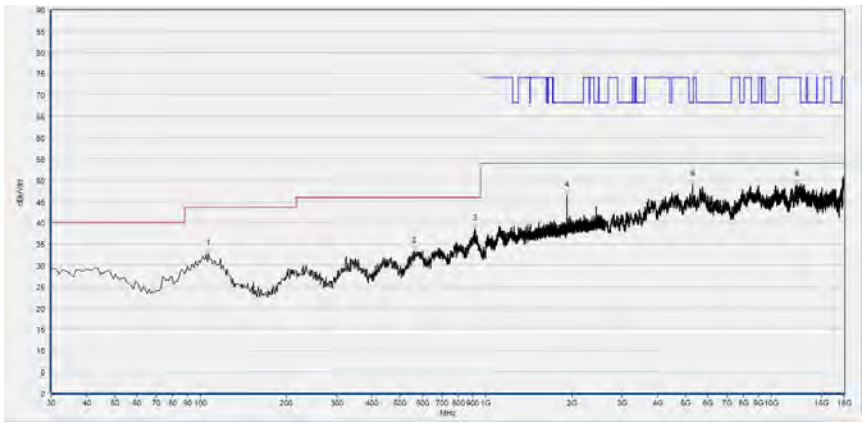
(Antenna Vertical, 30MHz to 18GHz)

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
104.765	32.14	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
429.069	32.87	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
890.280	36.99	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1922.974	47.16	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5859.292	48.25	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12522.665	49.64	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

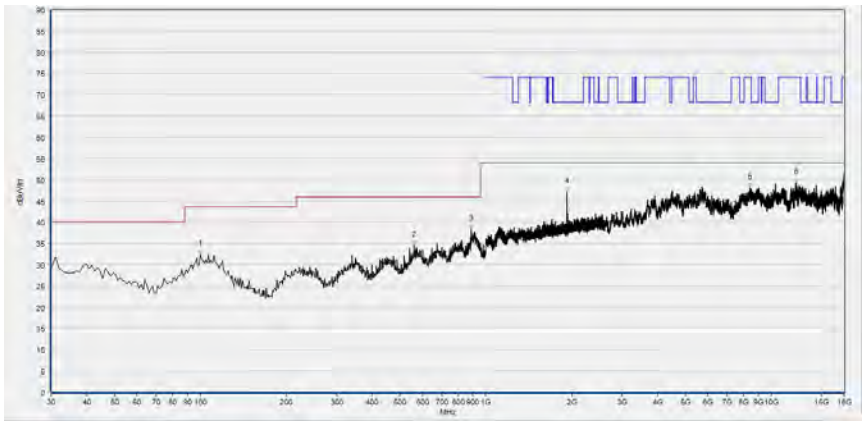
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
106.707	32.72	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
562.092	33.31	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
913.584	38.54	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1922.974	46.41	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5298.620	48.93	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12279.296	48.95	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

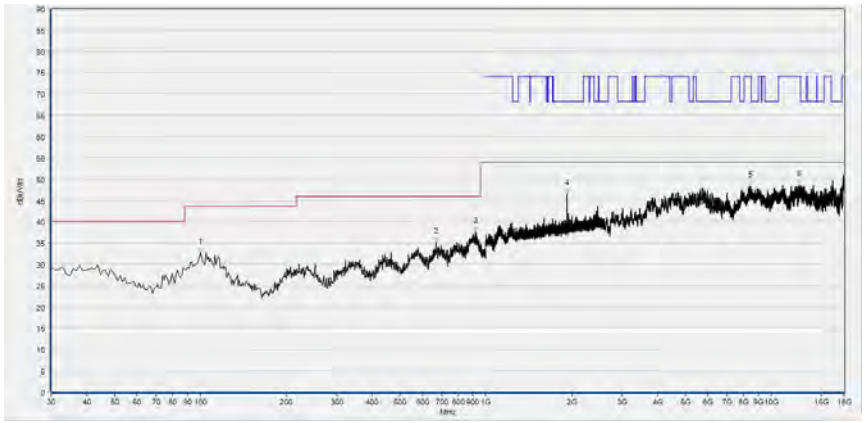
(Antenna Vertical, 30MHz to 18GHz)

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
99.910	32.38	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
562.092	34.49	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
890.280	38.39	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1923.508	47.12	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8413.123	48.06	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12202.280	49.26	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

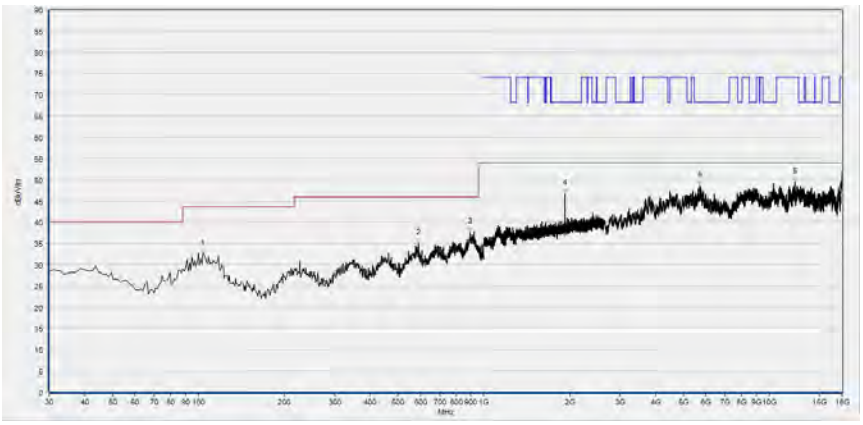
(Antenna Horizontal, 30MHz to 18GHz)



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	32.64	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
668.899	35.15	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
917.467	37.75	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1923.508	46.57	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8450.090	48.43	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12528.826	48.54	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

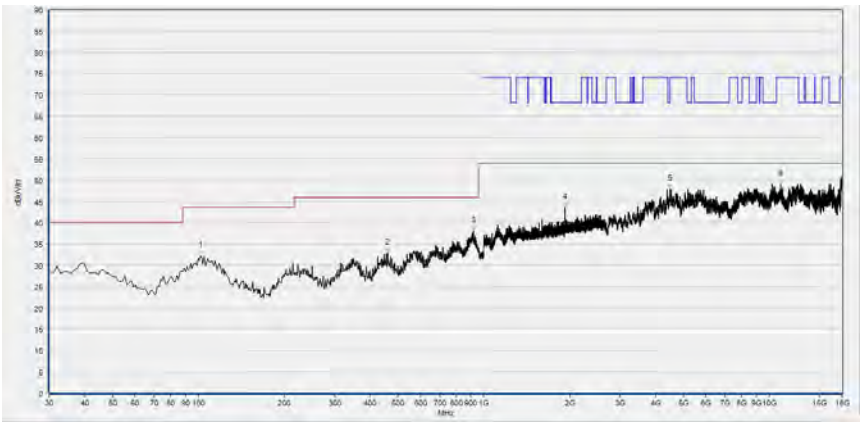
(Antenna Vertical, 30MHz to 18GHz)

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
103.794	32.50	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
591.221	34.98	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
895.135	37.63	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1923.508	46.79	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5732.987	48.56	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12273.135	49.42	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

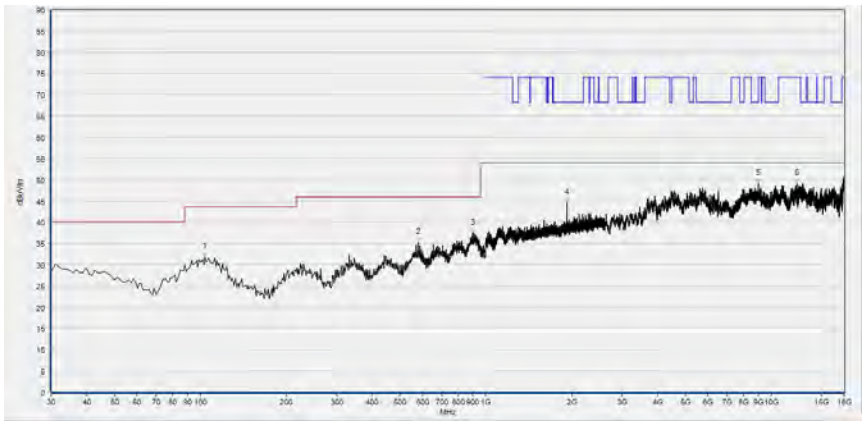
(Antenna Horizontal, 30MHz to 18GHz)



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
101.852	32.17	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
460.140	32.81	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
921.351	37.98	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1922.441	43.66	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4488.418	47.95	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
10988.518	48.96	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

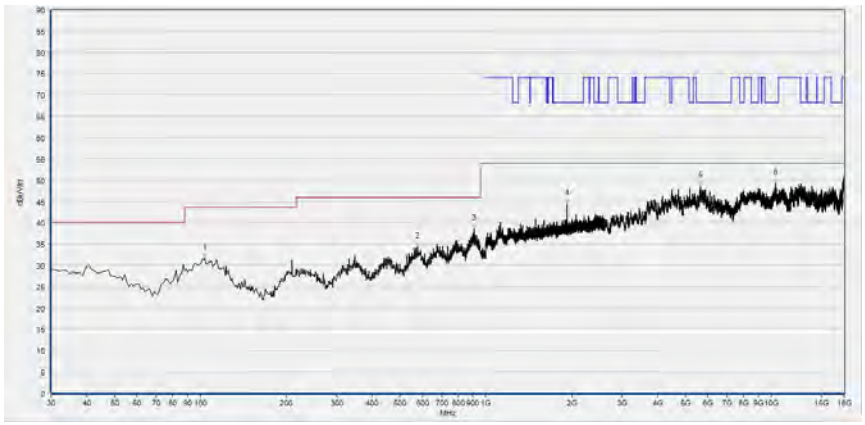
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 120



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
103.794	31.85	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
580.541	35.15	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
899.990	37.43	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1923.508	44.60	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8989.198	49.09	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12288.538	49.12	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

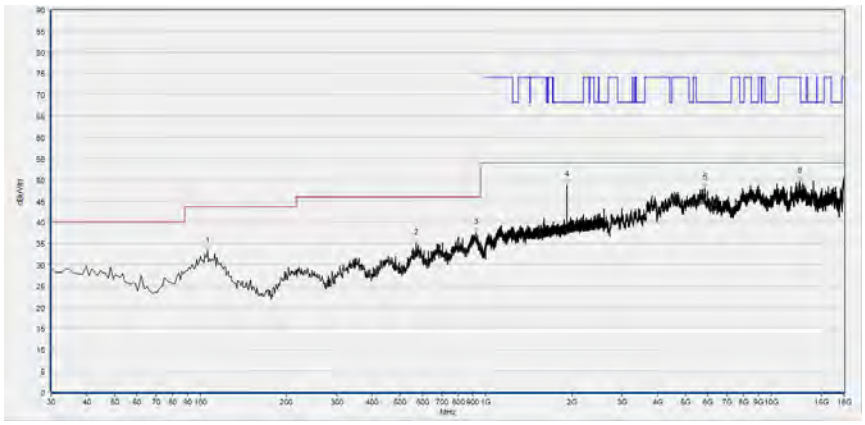
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
103.794	31.66	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
576.657	34.28	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
909.700	38.50	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1922.974	44.49	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5637.487	48.54	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
10353.911	49.24	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

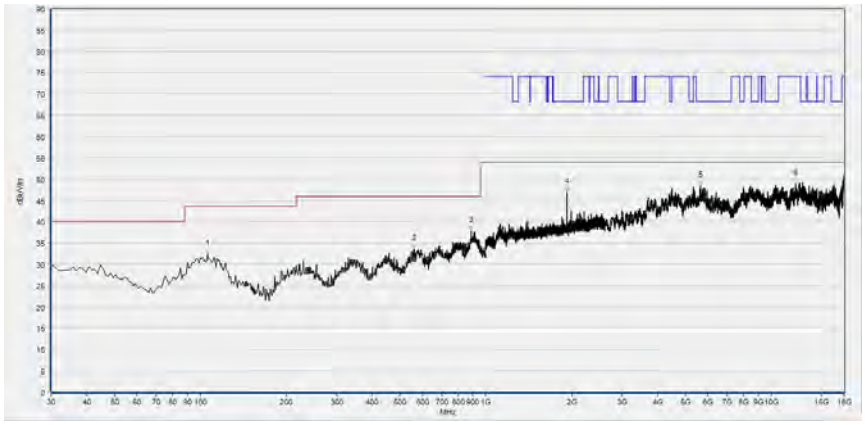
(Antenna Vertical, 30MHz to 18GHz)

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
105.736	33.26	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
568.889	35.11	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
923.293	37.50	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1922.974	48.83	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5856.211	48.15	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12578.116	49.62	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

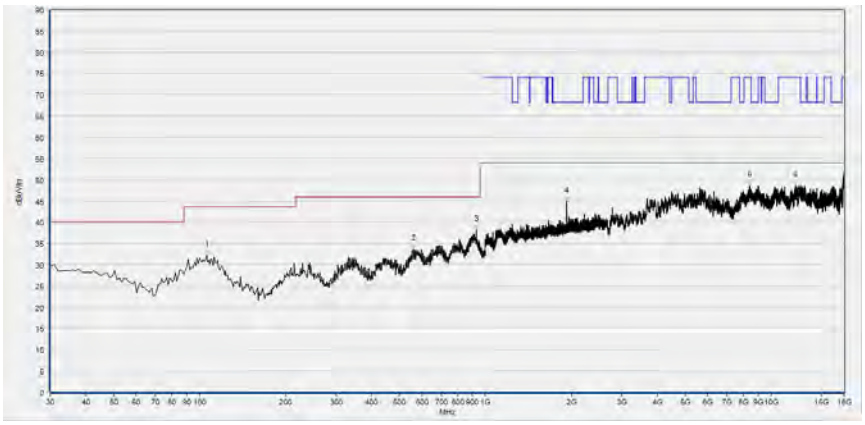
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
105.736	32.41	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
560.150	33.56	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
890.280	37.82	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1922.974	46.88	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5655.971	48.45	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12140.668	48.92	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

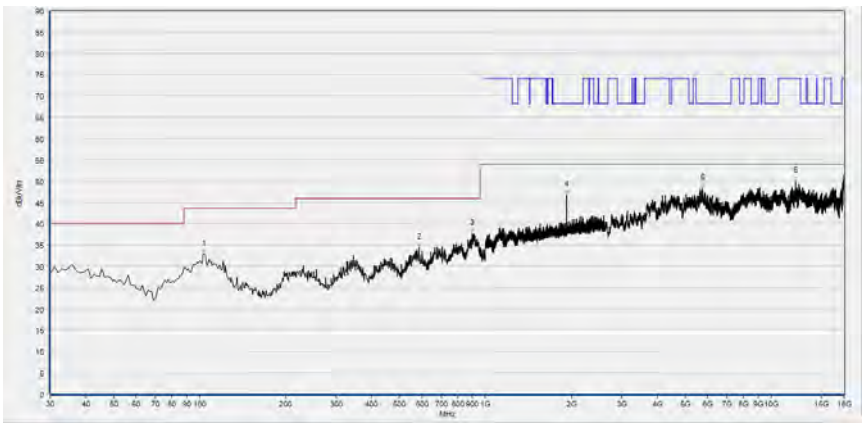
(Antenna Vertical, 30MHz to 18GHz)

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	32.10	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
560.150	33.63	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
928.148	38.17	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1922.974	44.93	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8391.558	48.56	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12162.232	48.62	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

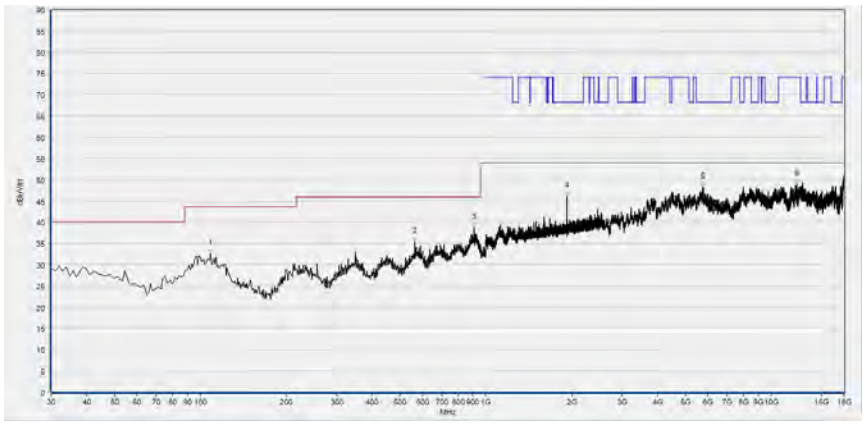
(Antenna Horizontal, 30MHz to 18GHz)



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	32.80	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
585.395	34.37	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
899.990	37.65	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1922.974	46.80	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5745.309	48.27	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12180.716	49.86	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

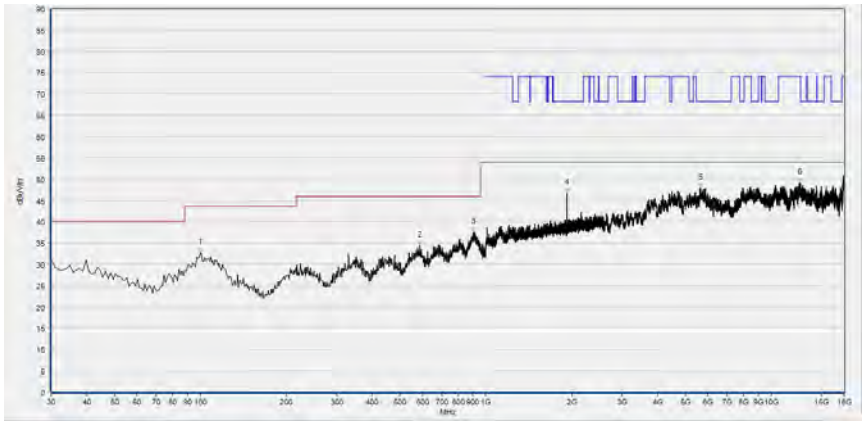
(Antenna Vertical, 30MHz to 18GHz)

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
108.649	32.53	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
564.034	35.35	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
910.671	38.75	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1922.974	46.10	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5748.390	48.34	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12303.941	48.96	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

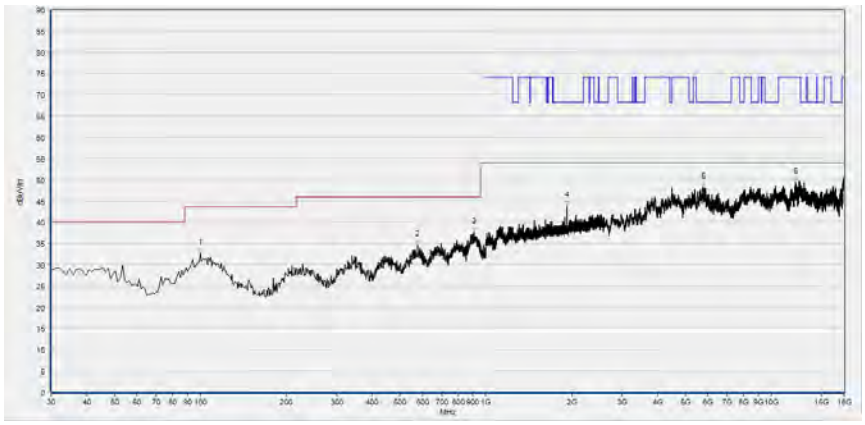
(Antenna Horizontal, 30MHz to 18GHz)



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	32.61	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
587.337	34.30	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
902.903	37.52	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1922.974	46.81	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5665.213	47.85	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12590.438	49.19	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

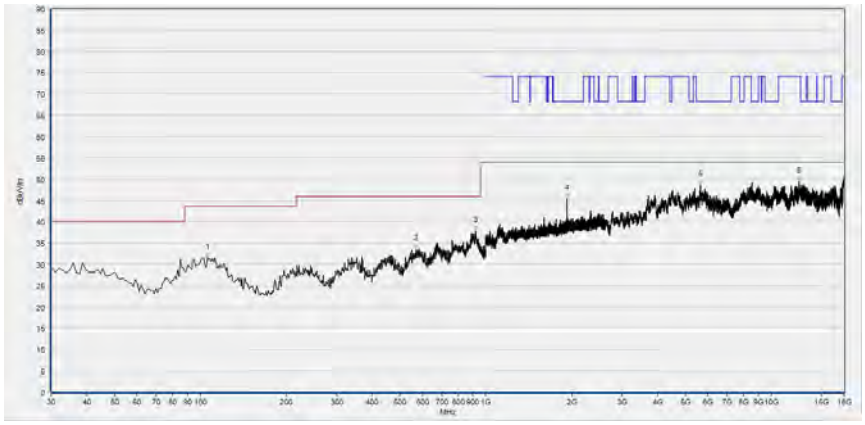
(Antenna Vertical, 30MHz to 18GHz)

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
99.910	32.62	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
577.628	34.73	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
910.671	37.66	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1923.508	43.85	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5773.035	48.34	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12159.152	49.45	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

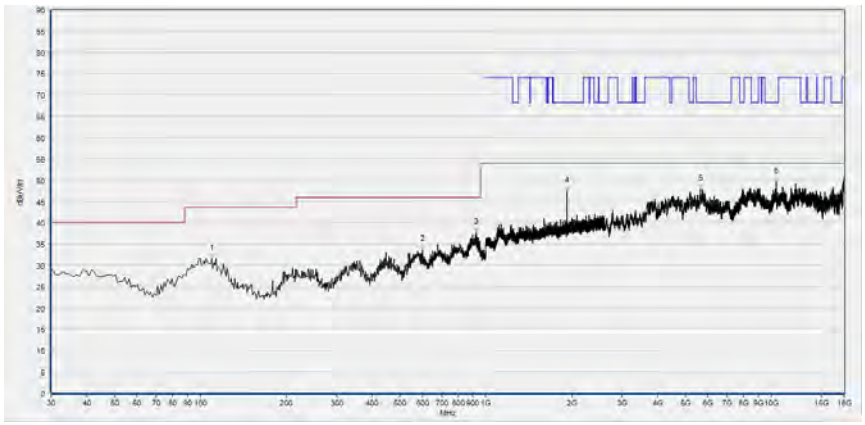


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
105.736	31.48	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
570.831	33.46	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
922.322	37.92	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1922.974	45.45	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5640.568	48.62	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12513.423	49.38	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

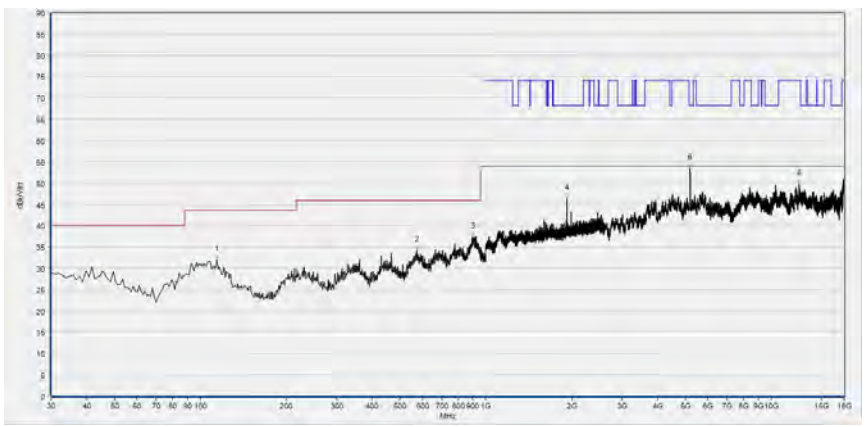
802.11n (HT40) mode

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
109.620	31.46	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
599.960	33.76	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
925.235	37.79	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1922.974	47.46	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5646.729	47.90	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10384.717	49.67	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

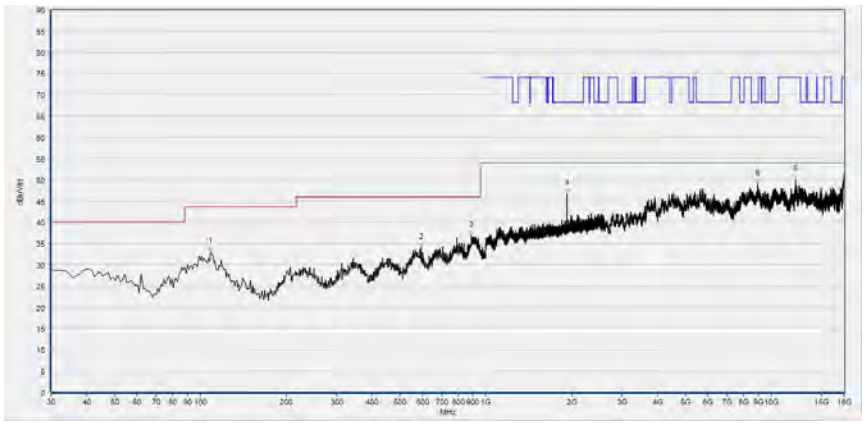
(Antenna Horizontal, 30MHz to 18GHz)



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
114.474	32.07	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
573.744	34.20	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
899.019	37.40	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1923.508	46.46	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5190.798	53.40	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12547.309	49.79	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

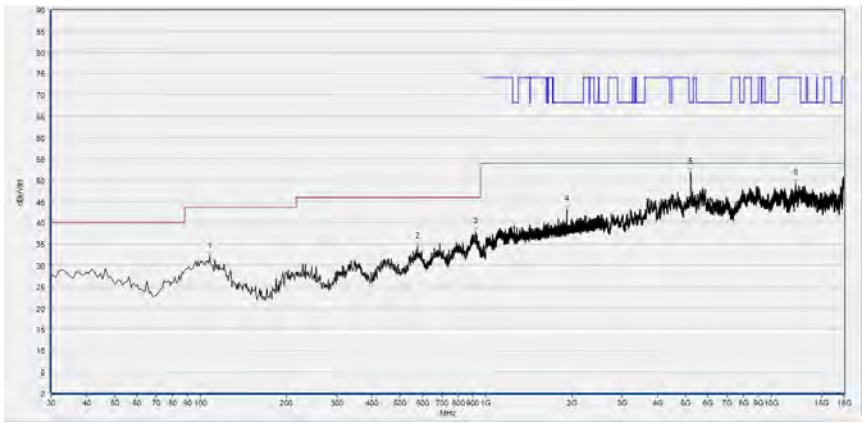
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 46



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
108.649	32.96	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
593.163	33.98	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
890.280	36.95	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1923.508	46.71	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8955.311	48.94	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12168.394	50.12	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

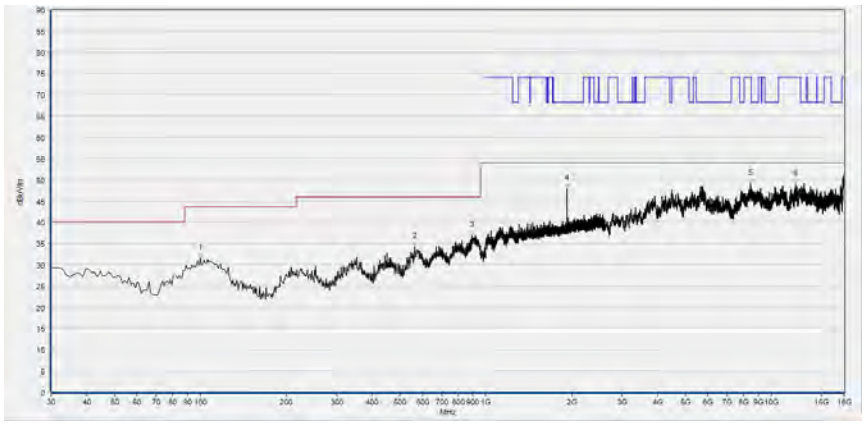
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
107.678	32.00	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
575.686	34.44	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
922.322	37.86	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1922.974	43.05	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5227.766	51.83	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12159.152	49.28	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

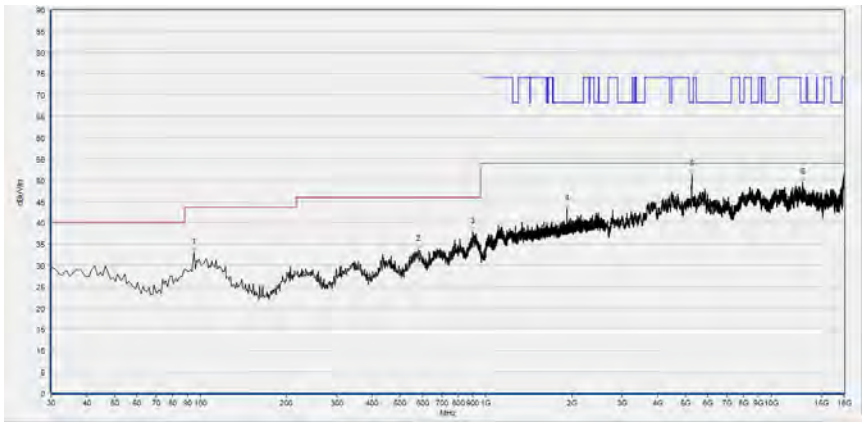
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 54



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
99.910	31.55	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
563.063	34.12	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
894.164	36.80	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1922.974	47.94	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8450.090	49.11	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12152.991	48.86	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

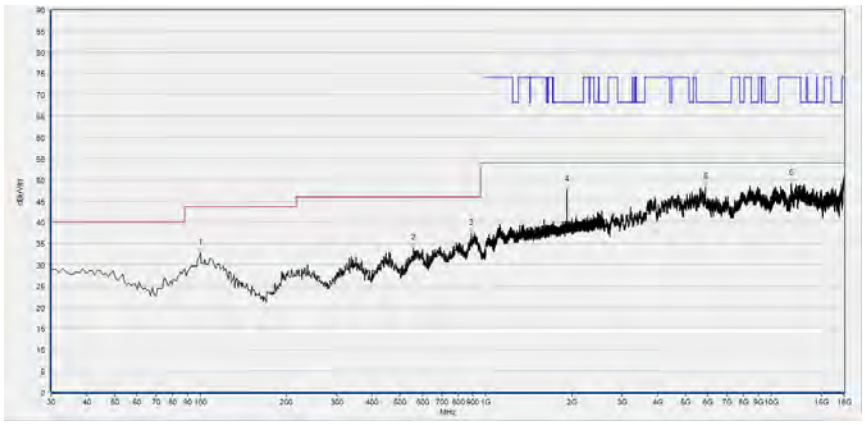
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
95.055	32.96	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
579.570	33.69	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
900.961	37.83	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1922.974	43.19	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5277.055	51.24	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12889.258	49.38	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

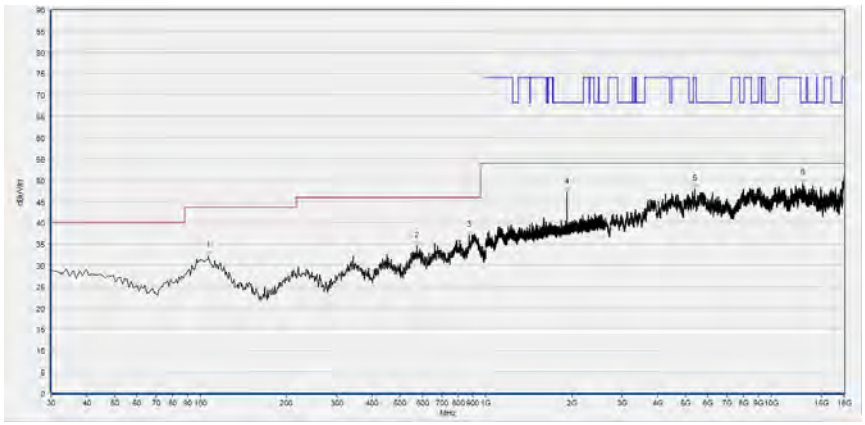
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 62



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
99.910	32.65	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
558.208	33.81	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
891.251	37.33	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1922.974	47.59	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5868.534	48.20	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11752.511	49.10	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

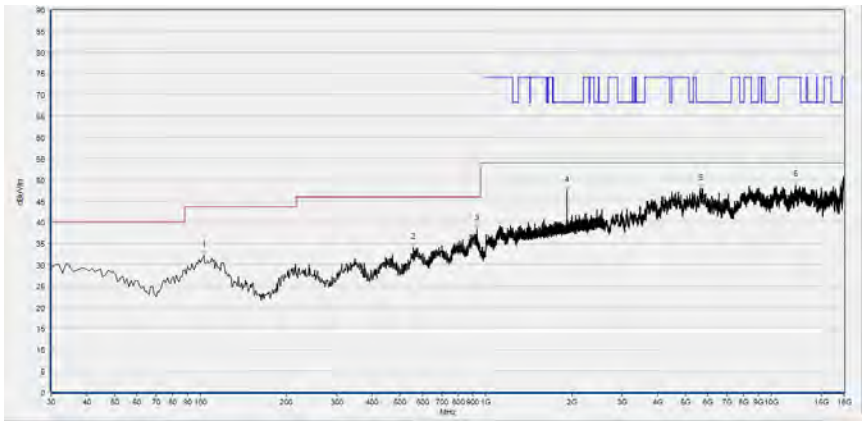
(Antenna Horizontal, 30MHz to 18GHz)



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
106.707	32.20	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
573.744	34.51	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
874.745	37.06	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1922.974	47.08	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5400.280	47.85	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12892.338	49.32	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

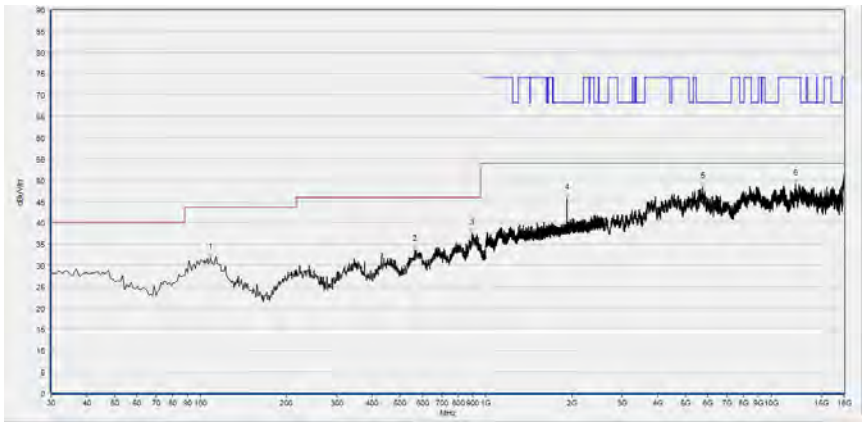
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 102



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
102.823	32.26	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
557.237	34.08	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
930.090	38.37	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1922.974	47.51	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5643.649	47.92	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12189.958	48.75	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

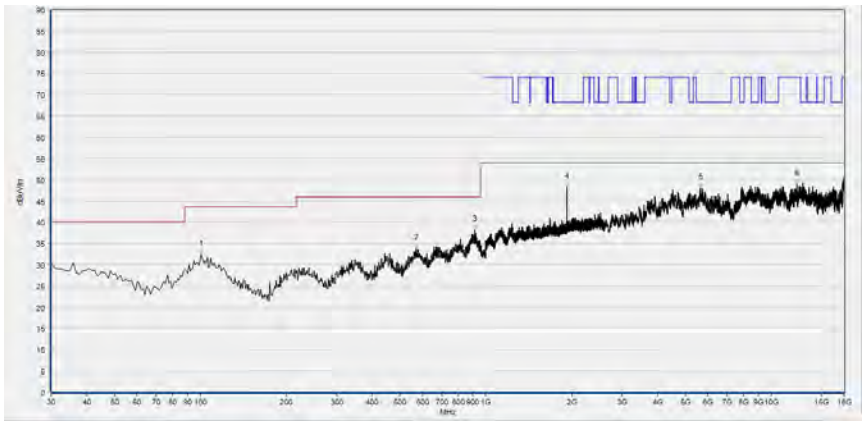
(Antenna Horizontal, 30MHz to 18GHz)



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
108.649	31.82	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
564.034	33.73	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
894.164	37.50	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1924.041	45.82	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5748.390	48.36	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12165.313	49.13	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

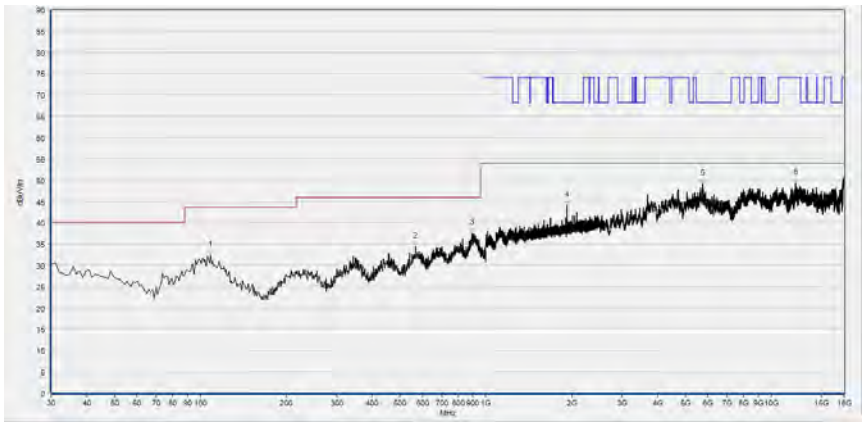
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 126



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
100.881	32.42	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
568.889	33.90	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
916.496	38.15	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1922.974	48.26	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5649.810	48.04	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12288.538	48.91	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

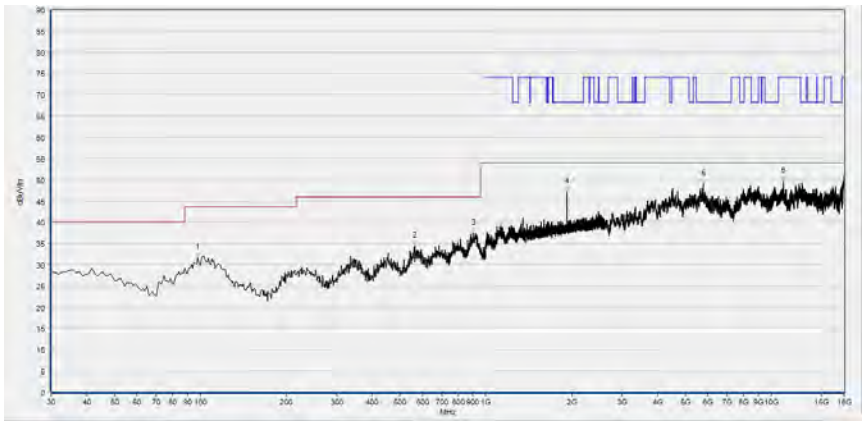
(Antenna Horizontal, 30MHz to 18GHz)



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
108.649	32.27	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
566.947	34.29	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
894.164	37.60	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1922.974	44.01	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5736.067	49.04	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12171.474	49.19	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

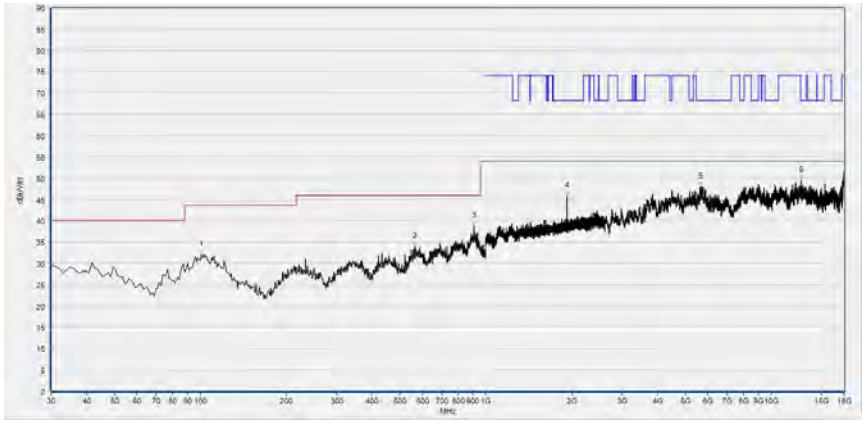
(Antenna Vertical, 30MHz to 18GHz)

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
97.968	31.74	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
565.005	34.36	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
903.874	37.37	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1922.974	47.03	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5769.954	48.90	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11007.001	49.58	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

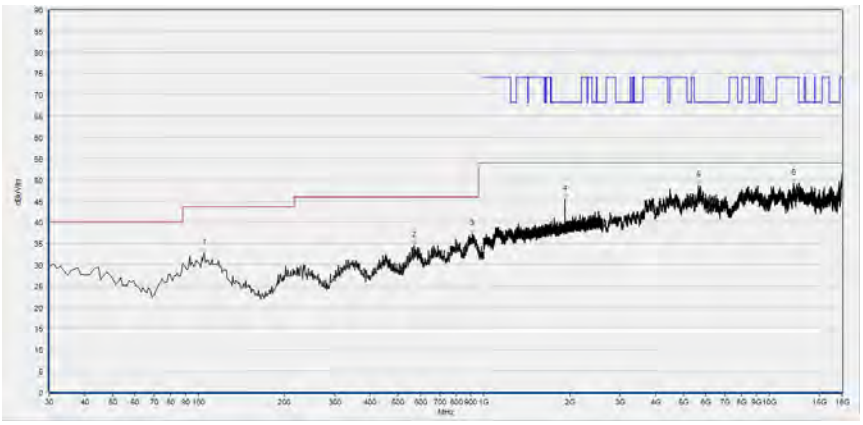
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
100.881	32.05	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
563.063	33.87	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
910.671	38.67	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1922.974	45.74	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5646.729	47.86	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12750.630	49.49	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

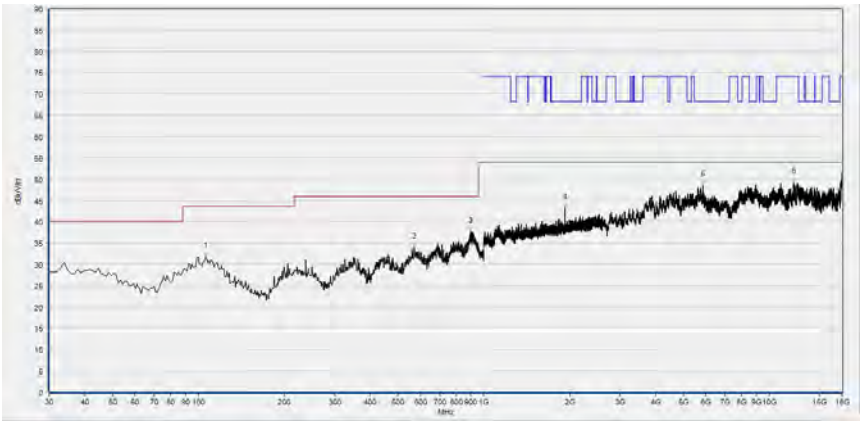
(Antenna Vertical, 30MHz to 18GHz)

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
104.765	32.62	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
570.831	34.58	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
911.642	37.18	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1923.508	43.47	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5649.810	48.60	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12146.829	49.18	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

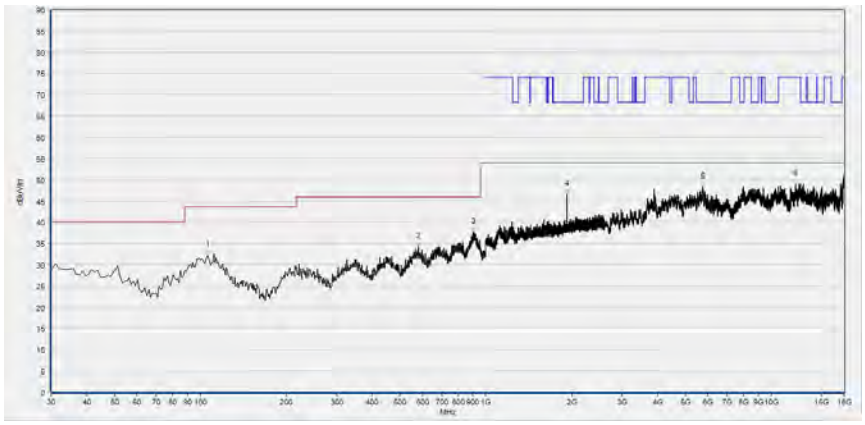
(Antenna Horizontal, 30MHz to 18GHz)



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
105.736	31.91	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
571.802	34.08	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
899.019	37.66	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1922.974	43.23	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5865.453	48.52	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12149.910	49.21	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

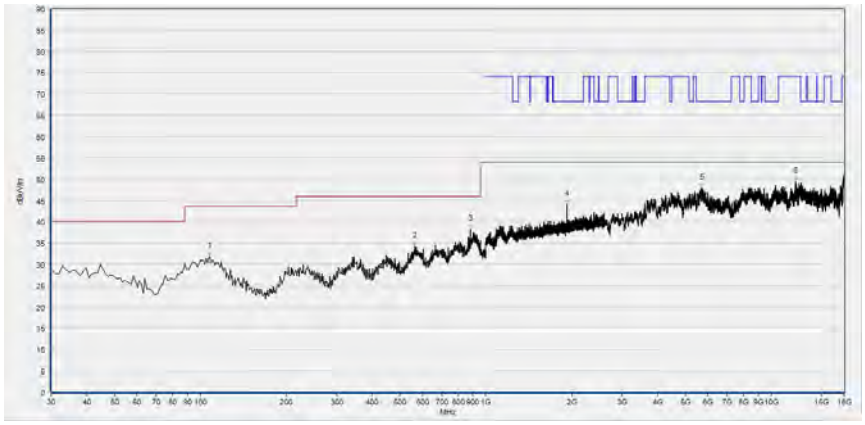
(Antenna Vertical, 30MHz to 18GHz)

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
105.736	32.12	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
581.512	34.26	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
903.874	37.72	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1922.974	46.62	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5739.148	48.20	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12189.958	48.91	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

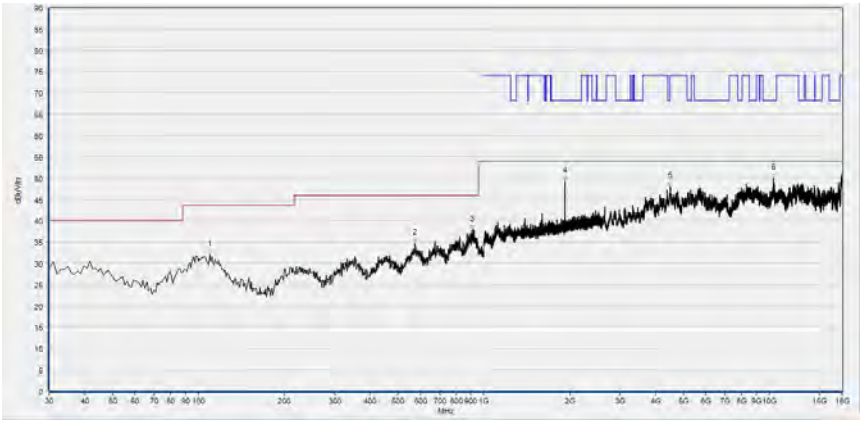


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
107.678	31.79	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
563.063	34.25	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
883.483	38.17	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1923.508	44.02	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5732.987	47.87	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12159.152	49.37	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

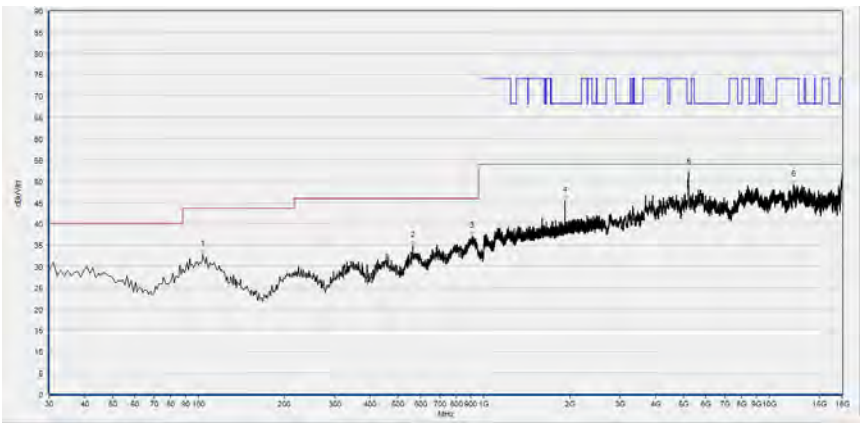
802.11ac (VHT80) Mode

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
109.620	32.06	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
573.744	34.74	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
907.758	37.83	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1922.974	49.27	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4500.740	48.04	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10341.588	49.95	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

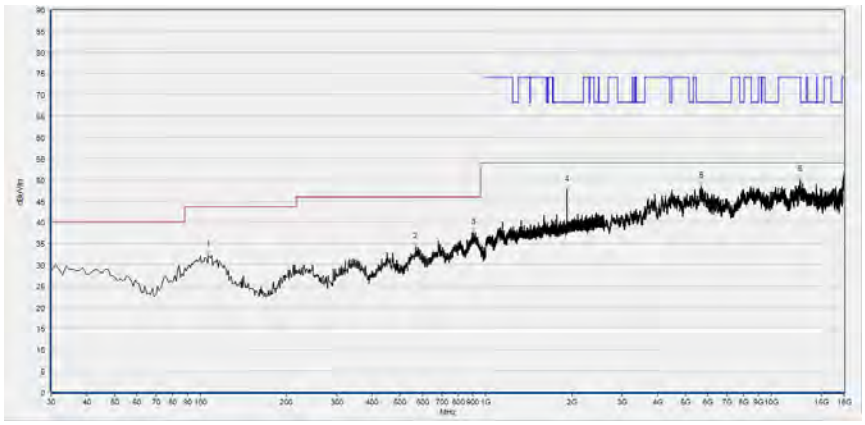
(Antenna Horizontal, 30MHz to 18GHz)



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
103.794	32.66	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
565.005	34.86	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
911.642	36.97	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1922.974	45.47	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5206.201	51.91	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12137.588	49.03	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

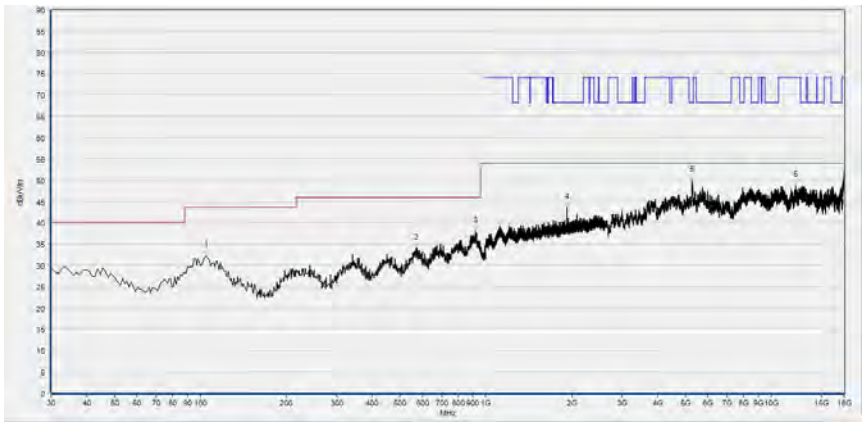
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 58



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
106.707	32.13	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
566.947	34.19	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
905.816	37.55	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1922.974	47.67	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5674.455	48.37	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12599.680	49.88	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

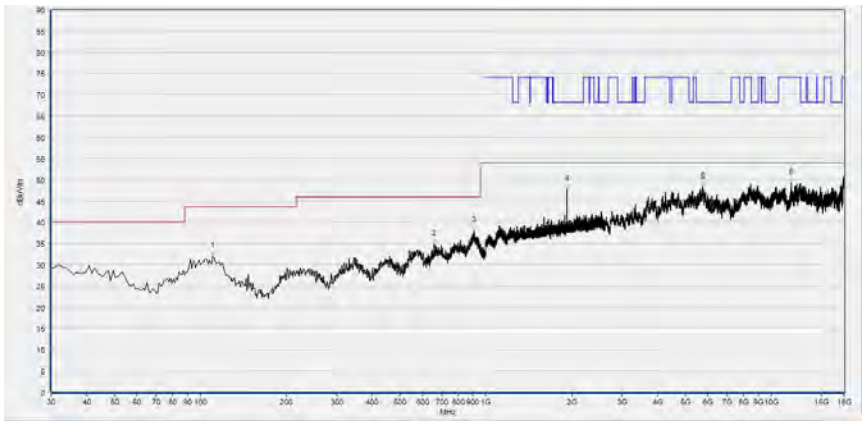
(Antenna Horizontal, 30MHz to 18GHz)



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
104.765	32.12	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
568.889	33.99	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
918.438	37.99	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1923.508	43.64	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5286.297	49.99	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12140.668	48.71	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

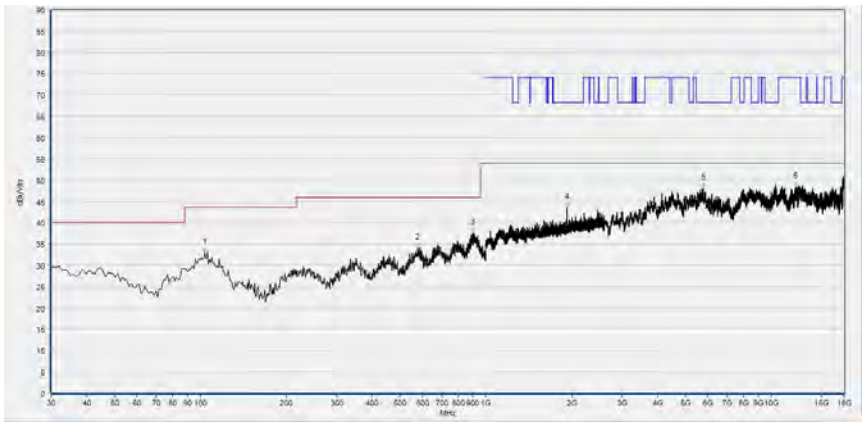
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 106



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
110.591	31.94	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
659.189	34.83	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
911.642	38.02	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1922.974	47.70	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5748.390	48.30	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11740.188	49.25	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

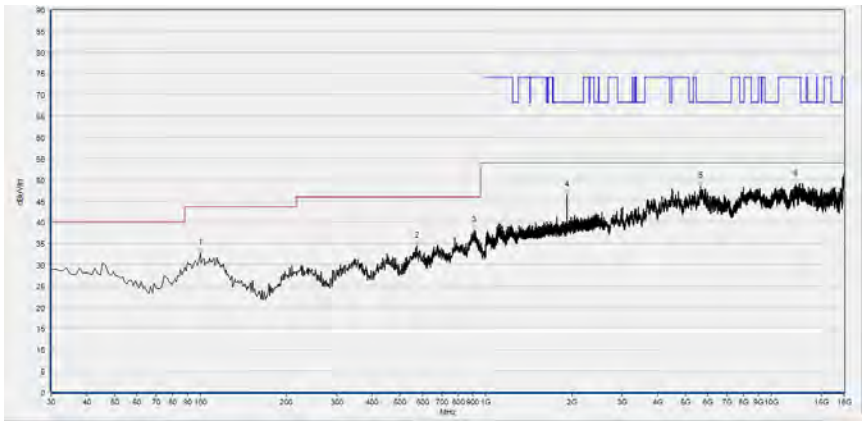
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
103.794	32.98	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
576.657	34.04	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
898.048	37.52	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1923.508	43.65	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5769.954	48.06	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12171.474	48.48	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

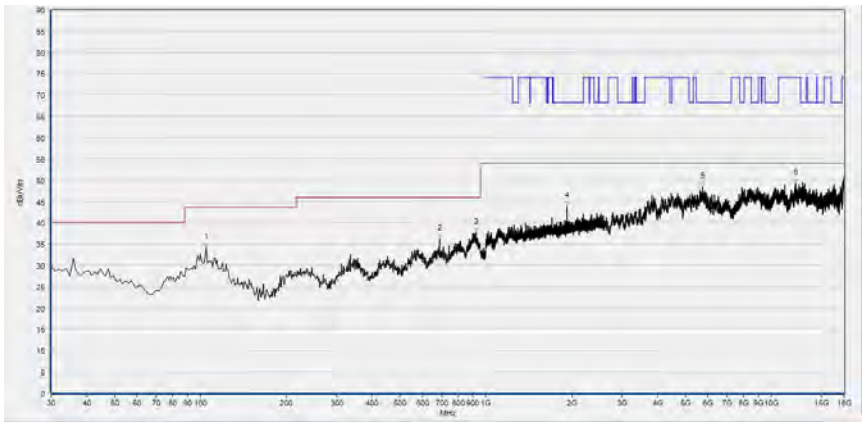
(Antenna Vertical, 30MHz to 18GHz)

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
99.910	32.74	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
573.744	34.40	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
911.642	38.09	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1922.974	46.43	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5646.729	48.48	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12152.991	48.94	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

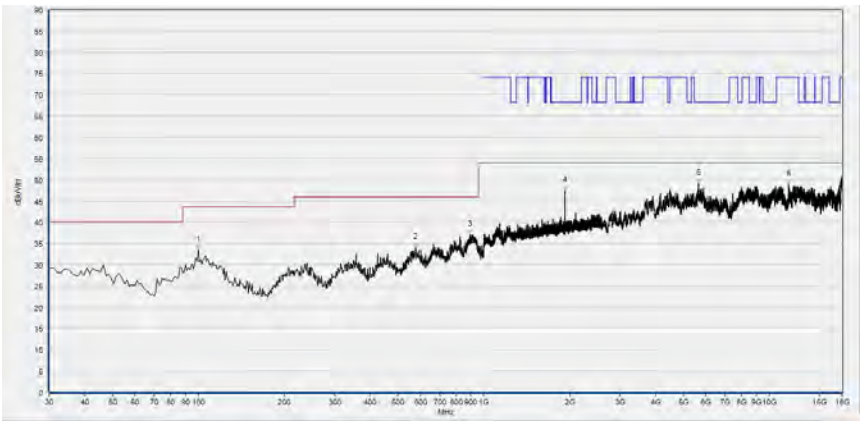
(Antenna Horizontal, 30MHz to 18GHz)



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
104.765	34.12	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
688.318	36.13	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
926.206	37.76	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1923.508	43.98	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5754.551	48.51	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12137.588	49.21	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

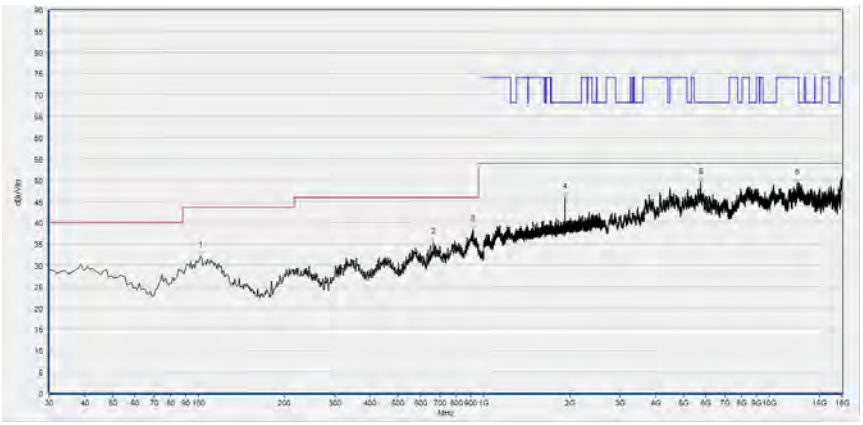
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 138



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
99.910	33.52	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
577.628	34.10	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
896.106	36.97	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1922.974	47.47	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5649.810	49.11	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11684.737	48.96	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

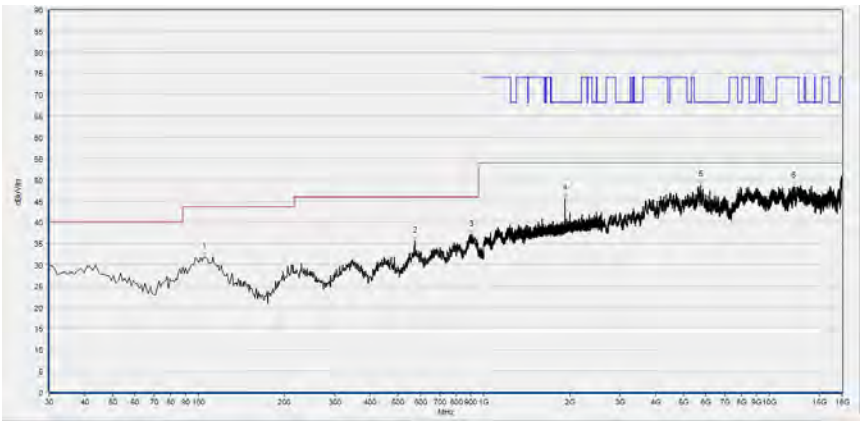
(Antenna Horizontal, 30MHz to 18GHz)



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	32.11	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
666.957	35.43	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
915.526	38.36	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1922.441	45.84	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5742.228	49.43	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12516.503	49.25	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

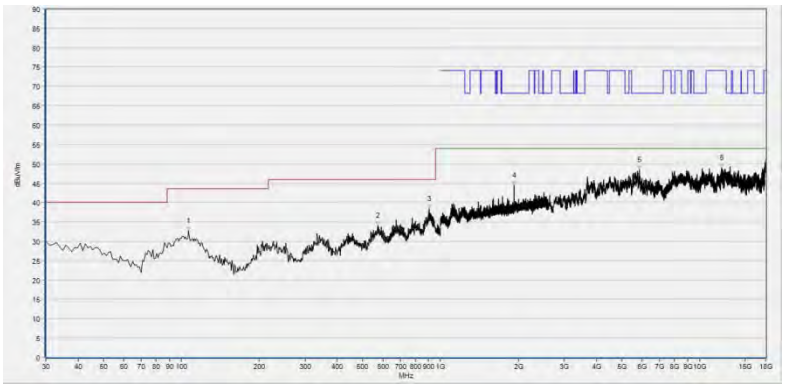
(Antenna Vertical, 30MHz to 18GHz)

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
104.765	31.82	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
573.744	35.61	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
904.845	37.01	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1922.974	45.56	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5739.148	48.76	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12189.958	48.41	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
106.707	32.62	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
574.715	34.01	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
904.845	38.45	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1922.441	44.47	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5853.131	48.36	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12165.313	48.89	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

END OF REPORT