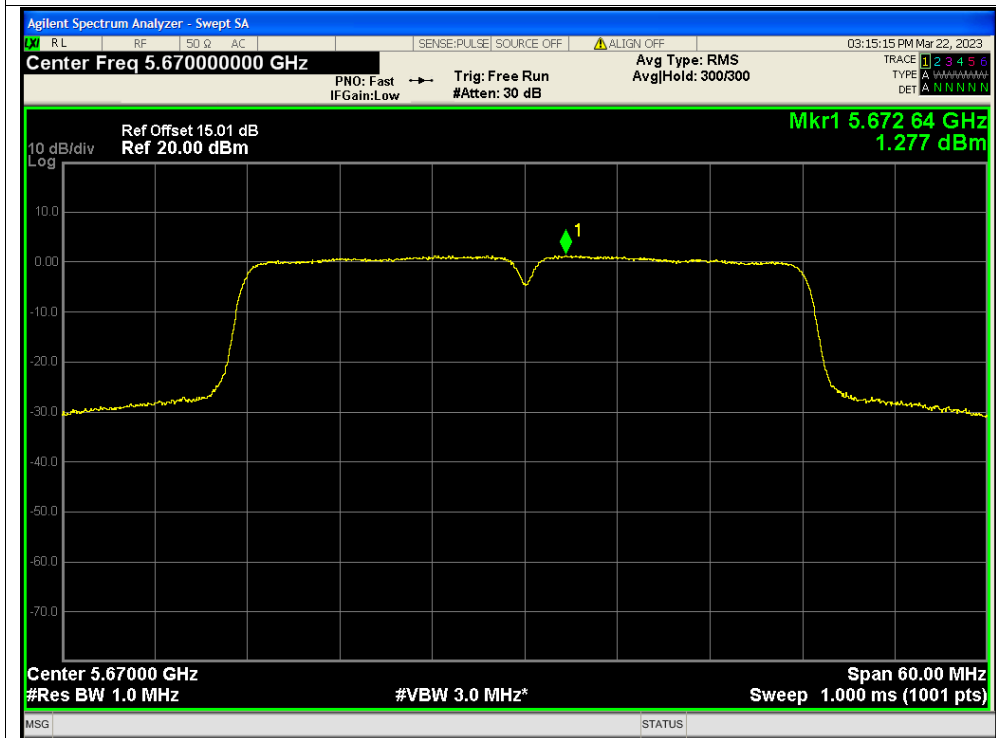
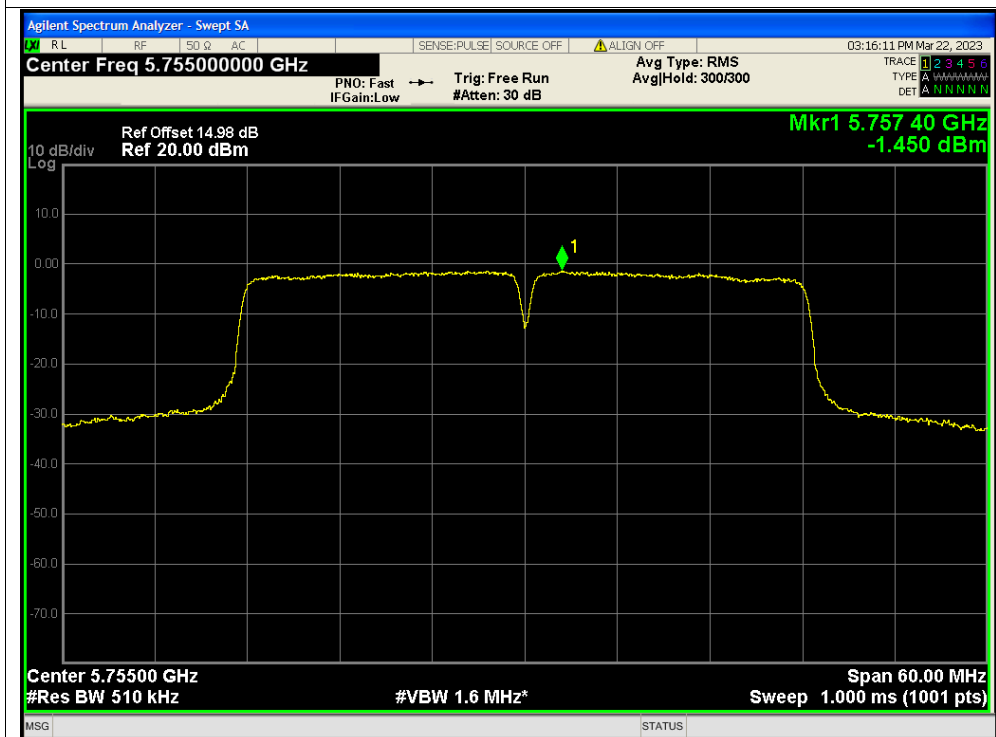




PSD NVNT n40 5670MHz Ant1

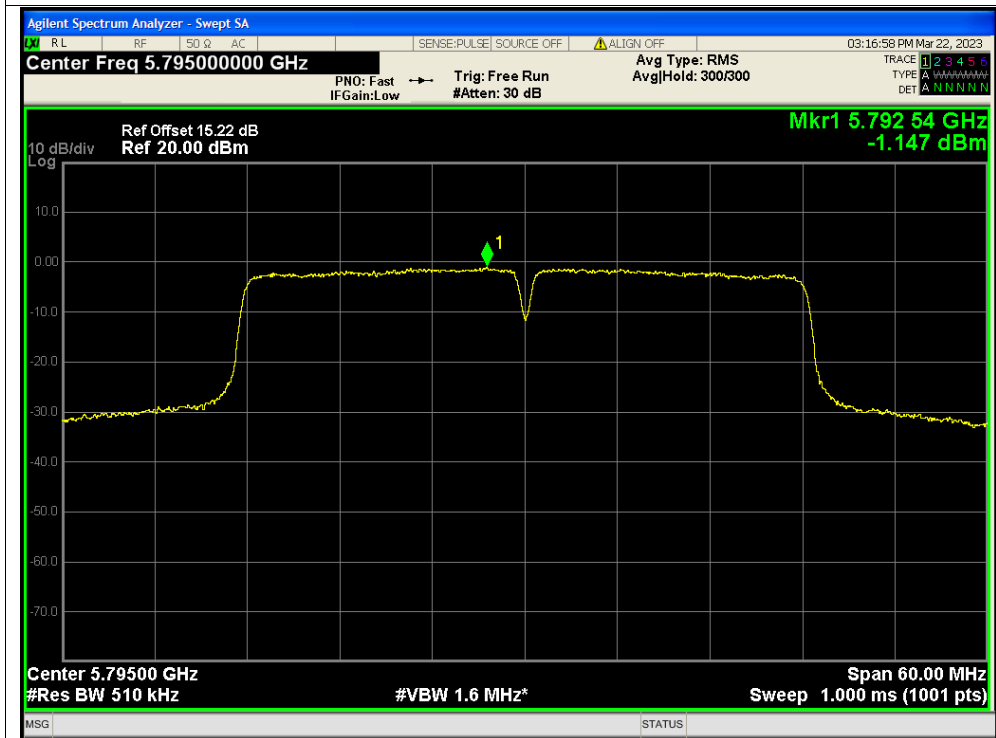


PSD NVNT n40 5755MHz Ant1

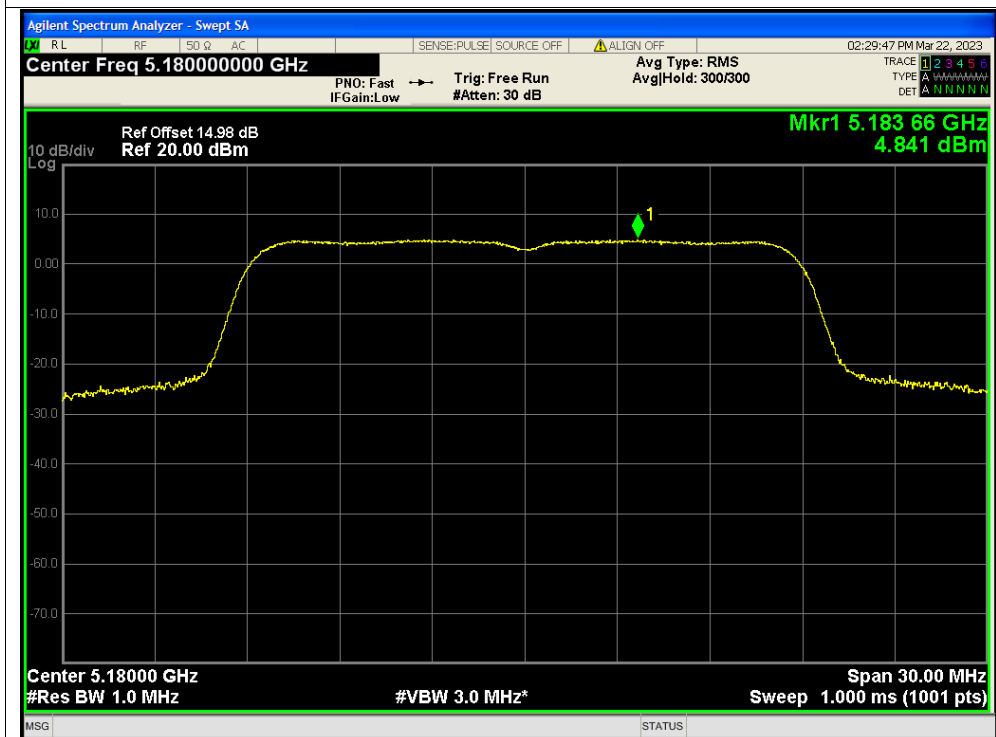




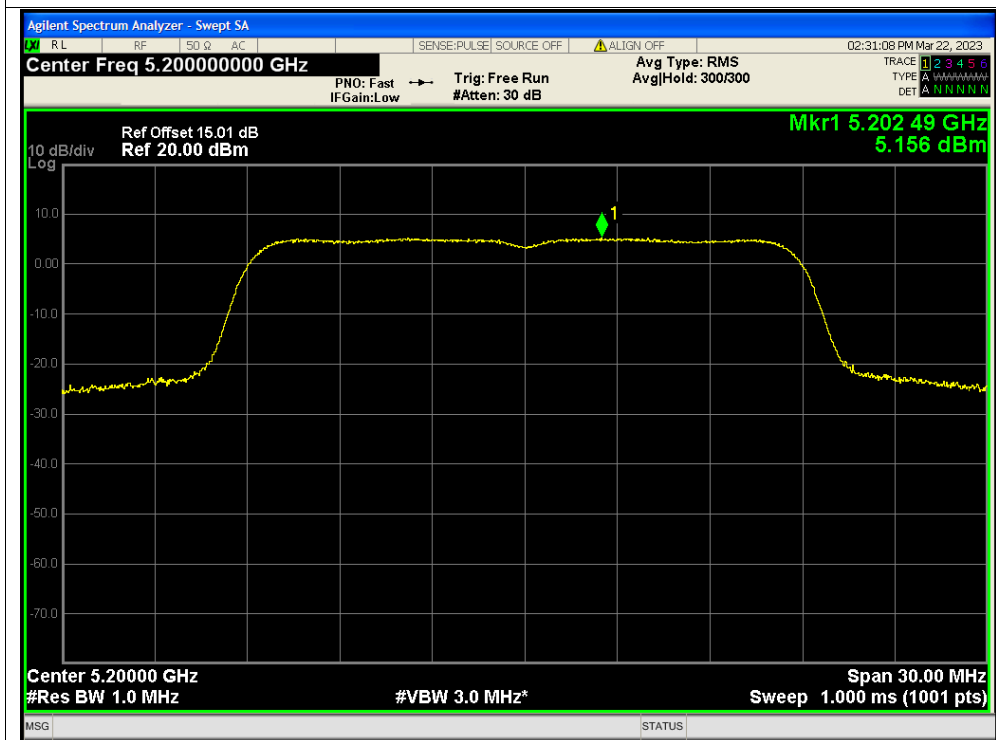
PSD NVNT n40 5795MHz Ant1



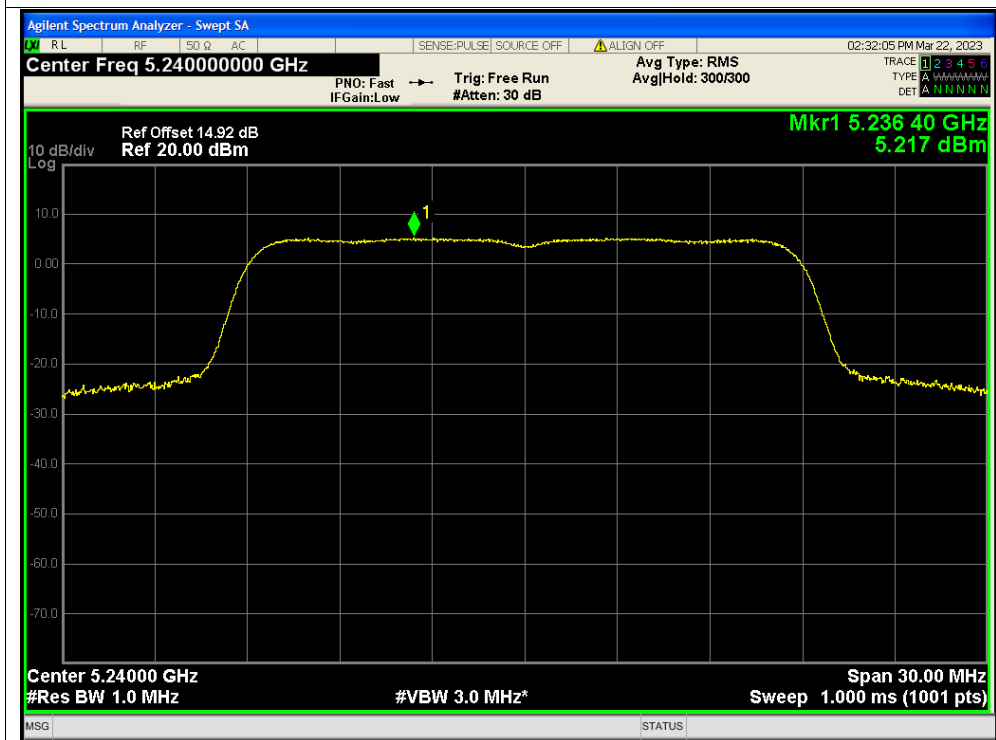
PSD NVNT ac20 5180MHz Ant1



PSD NVNT ac20 5200MHz Ant1

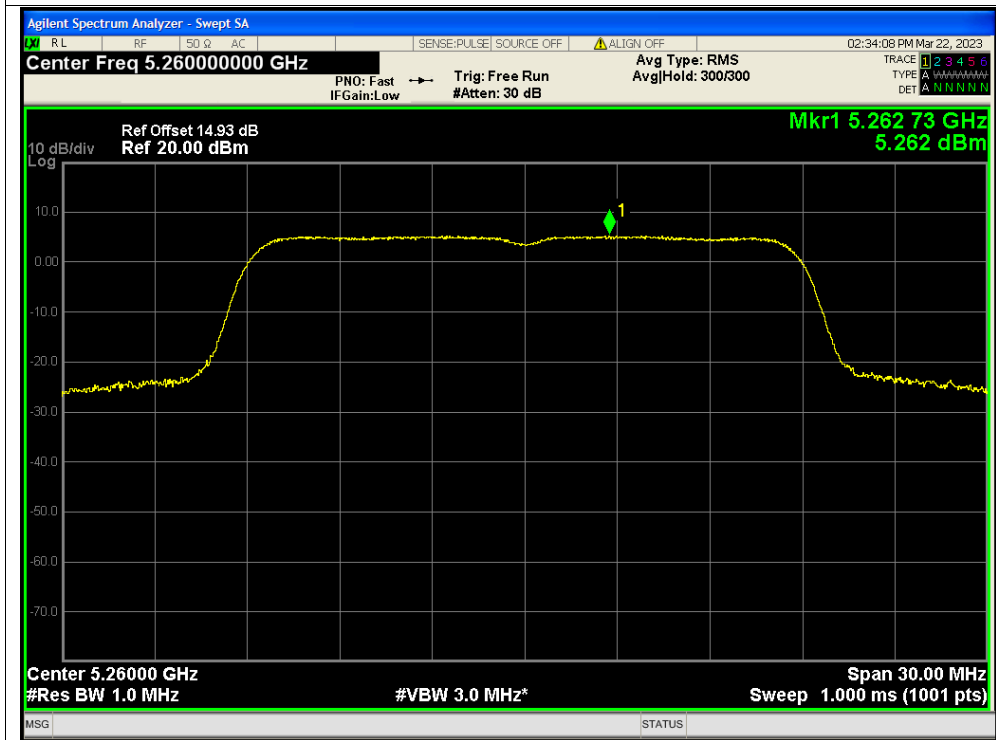


PSD NVNT ac20 5240MHz Ant1

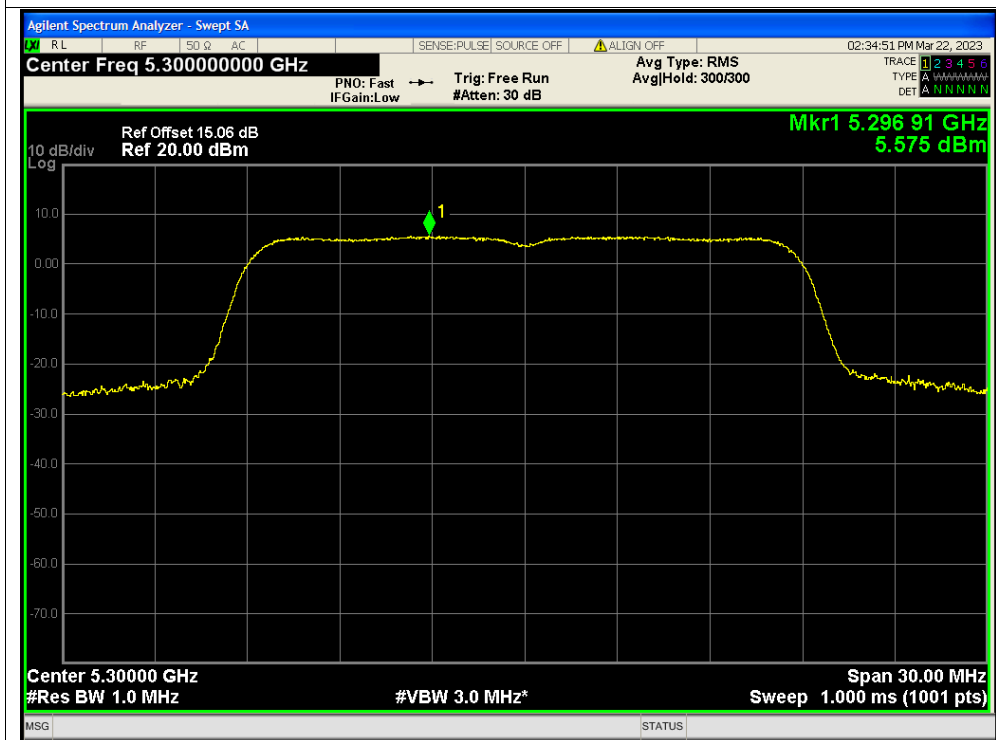




PSD NVNT ac20 5260MHz Ant1

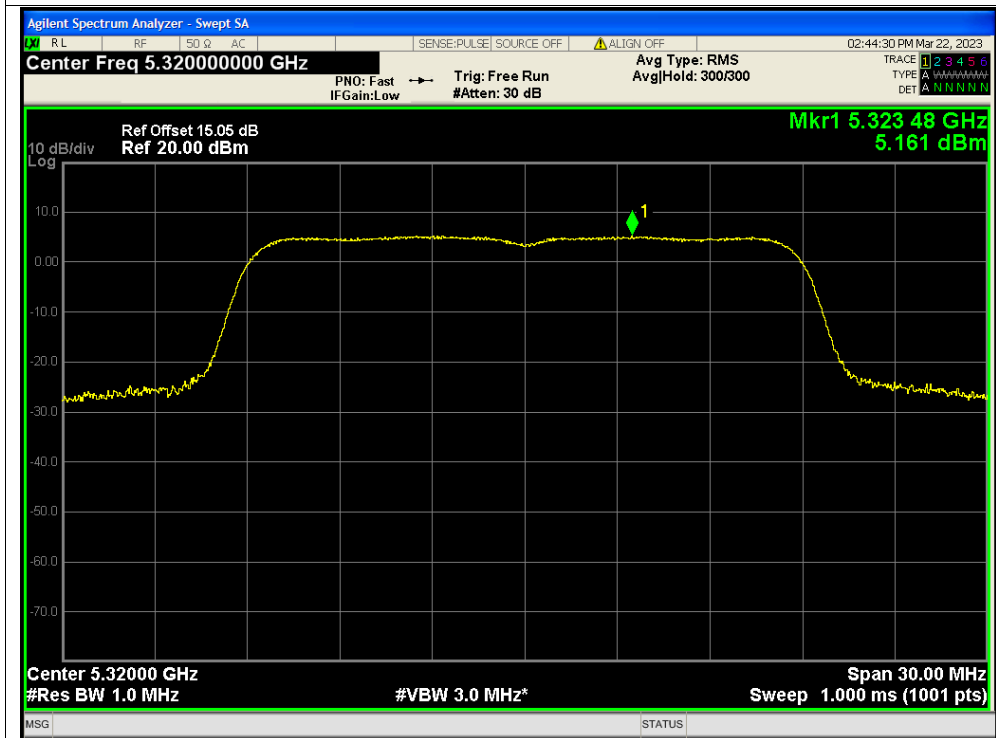


PSD NVNT ac20 5300MHz Ant1

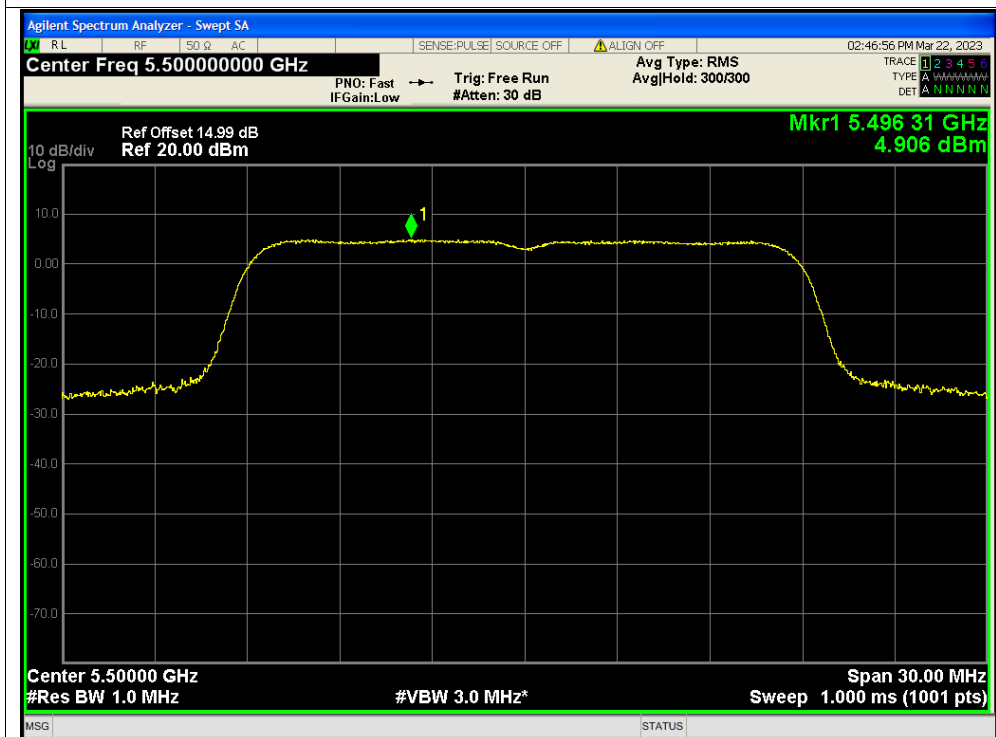




PSD NVNT ac20 5320MHz Ant1

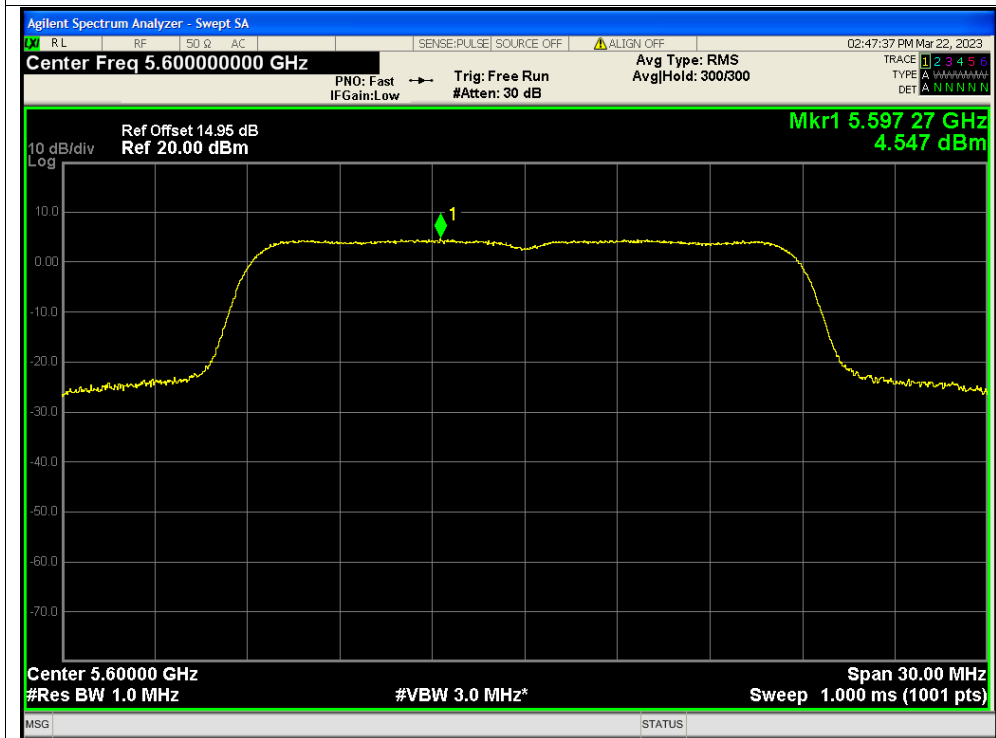


PSD NVNT ac20 5500MHz Ant1

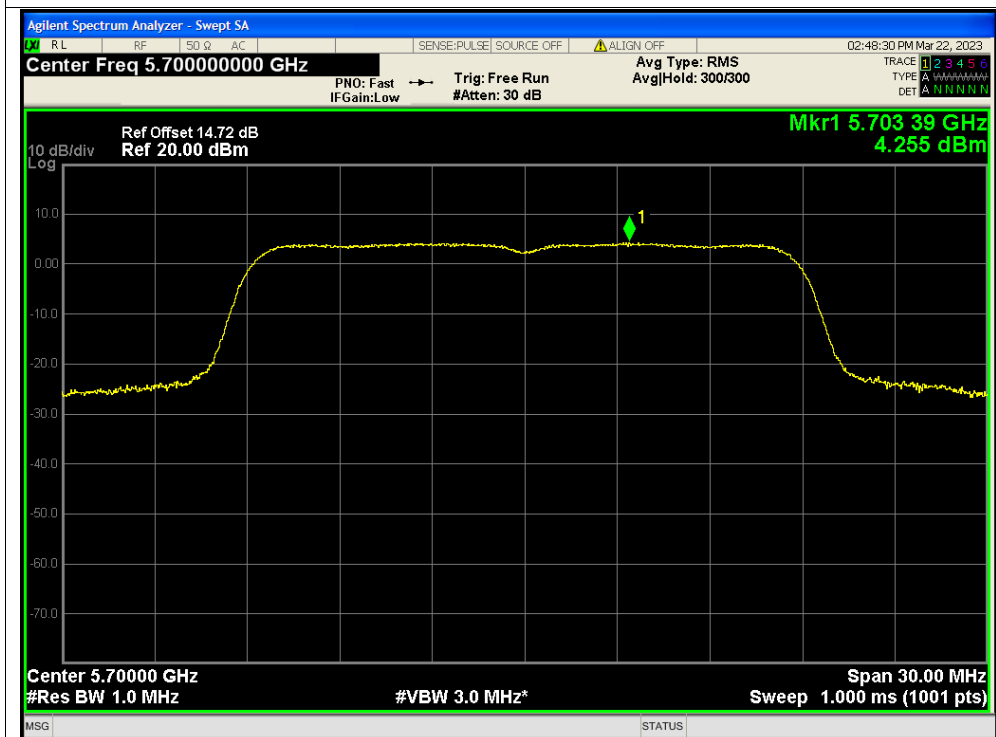




PSD NVNT ac20 5600MHz Ant1

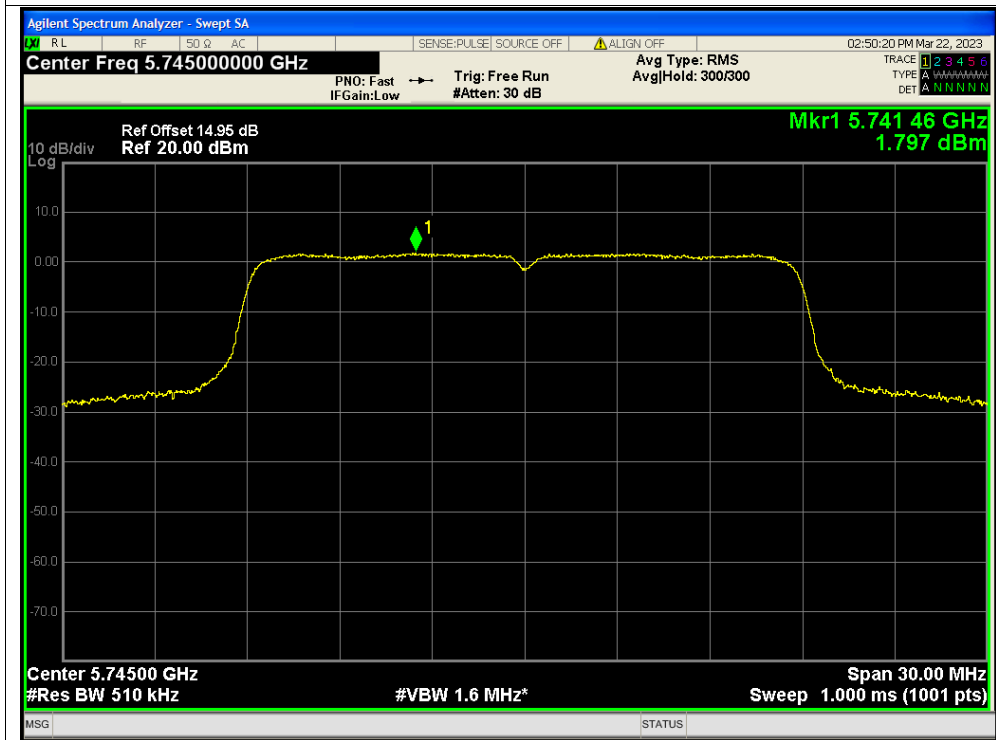


PSD NVNT ac20 5700MHz Ant1

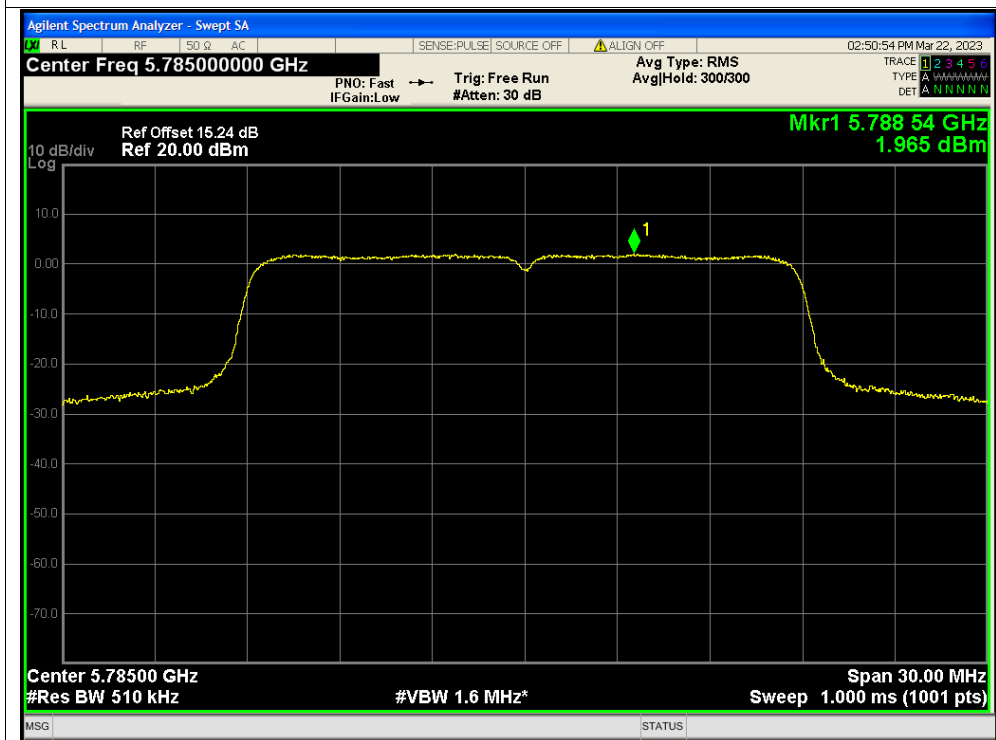




PSD NVNT ac20 5745MHz Ant1

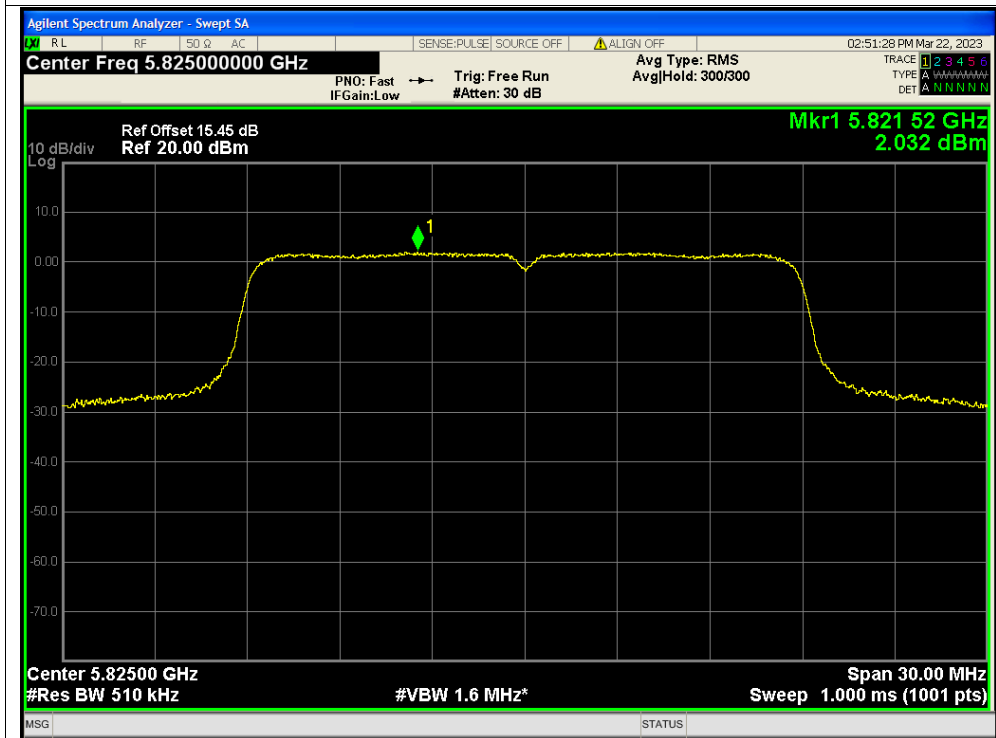


PSD NVNT ac20 5785MHz Ant1

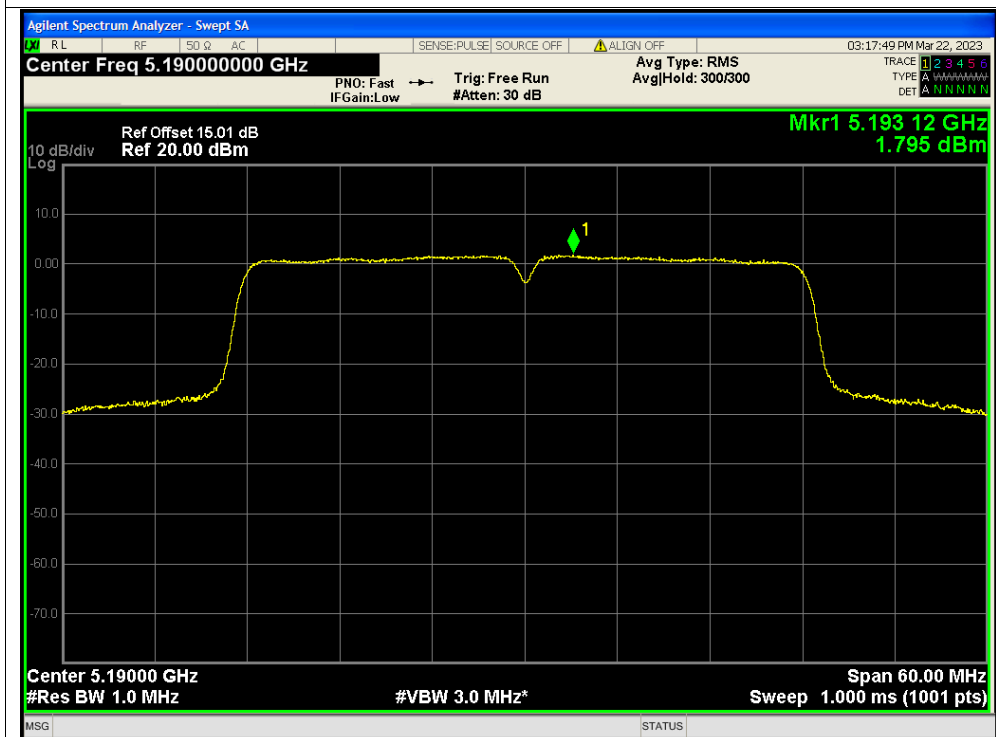




PSD NVNT ac20 5825MHz Ant1

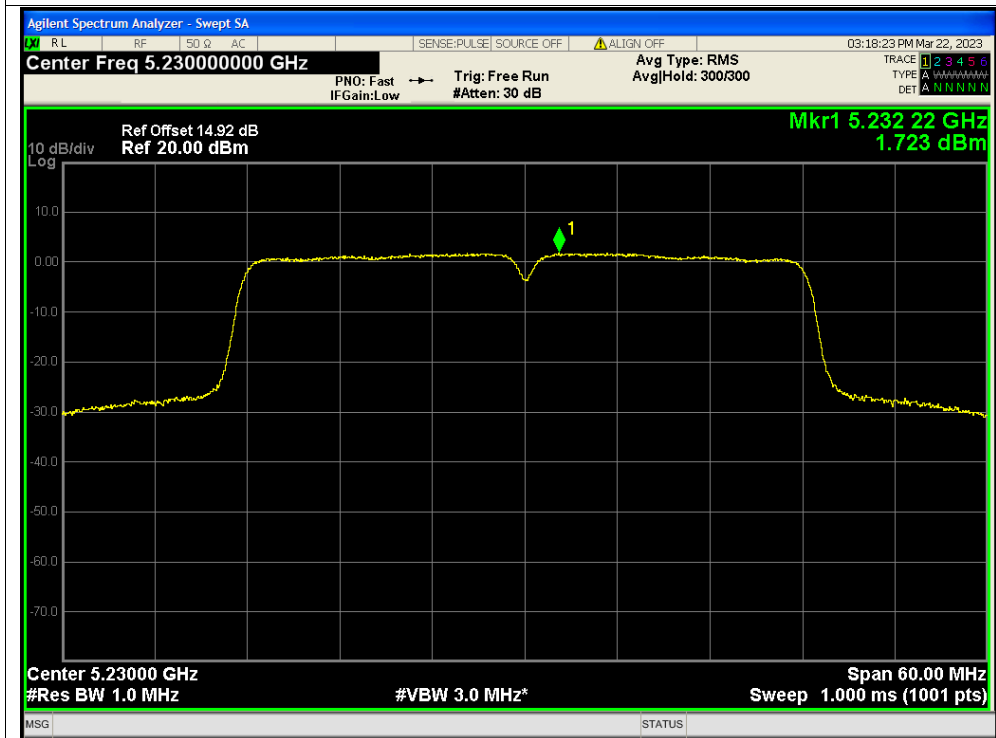


PSD NVNT ac40 5190MHz Ant1

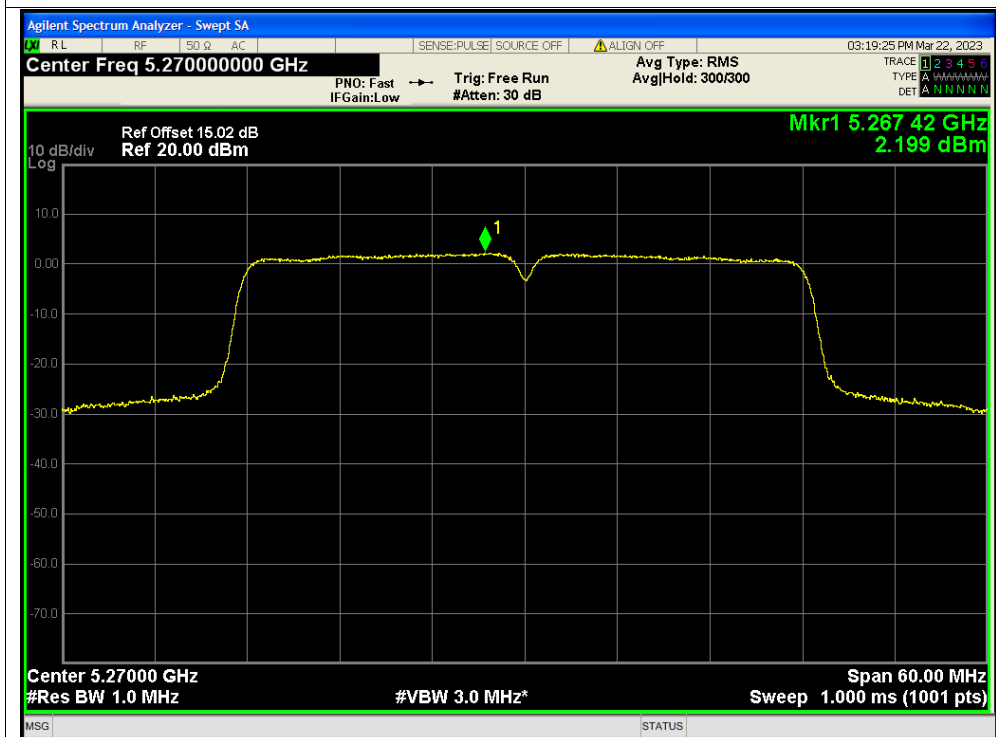




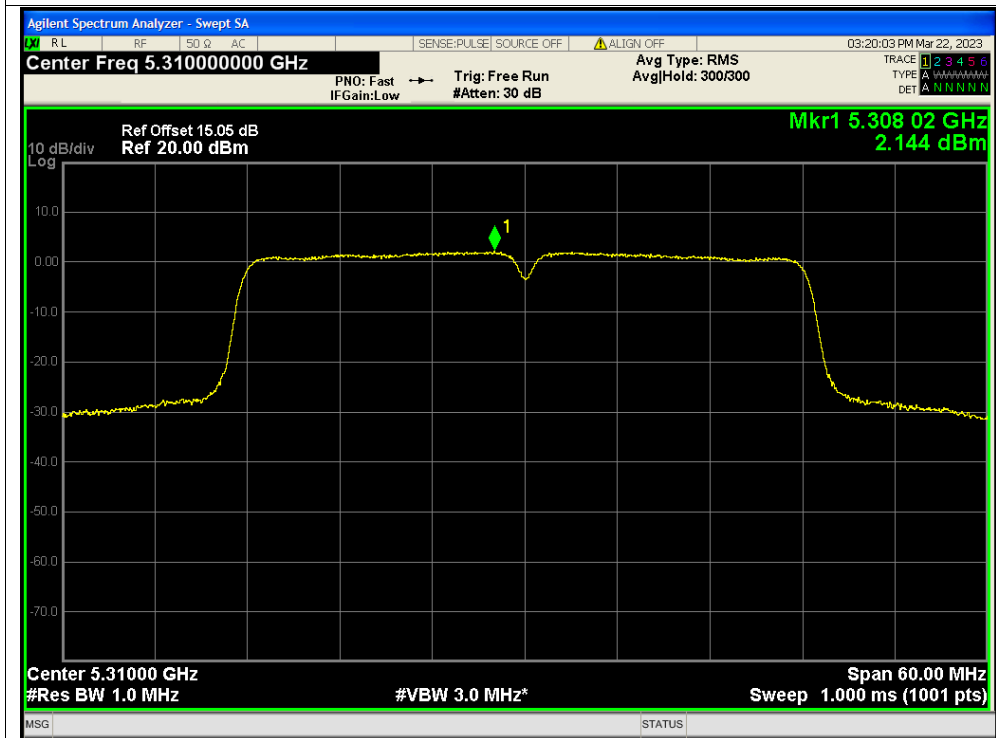
PSD NVNT ac40 5230MHz Ant1



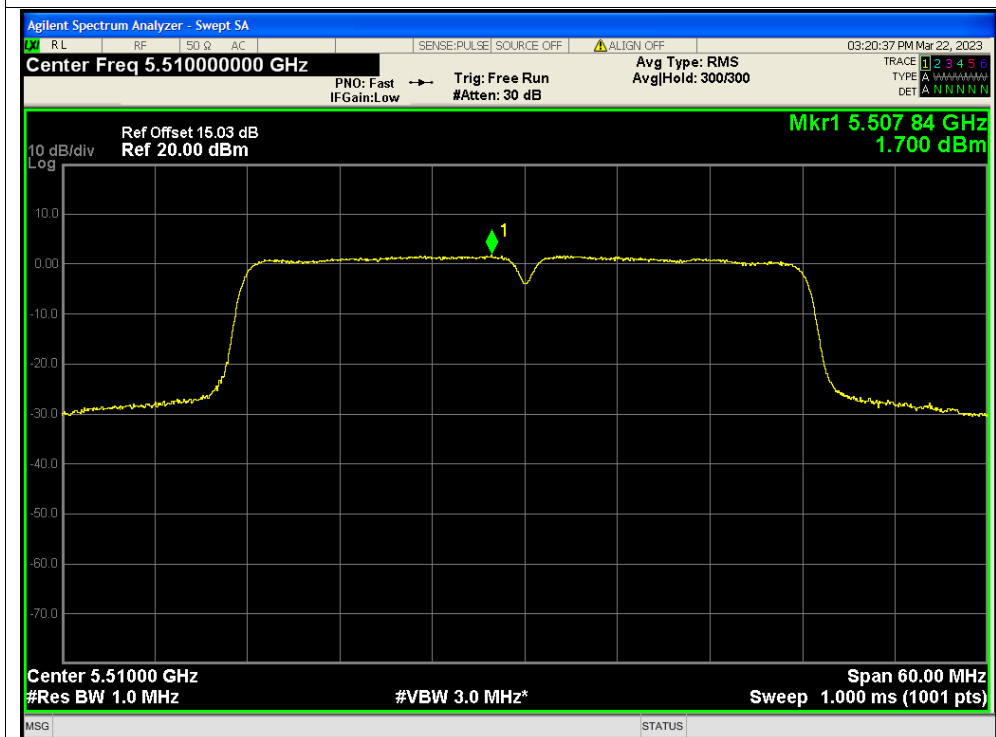
PSD NVNT ac40 5270MHz Ant1



PSD NVNT ac40 5310MHz Ant1

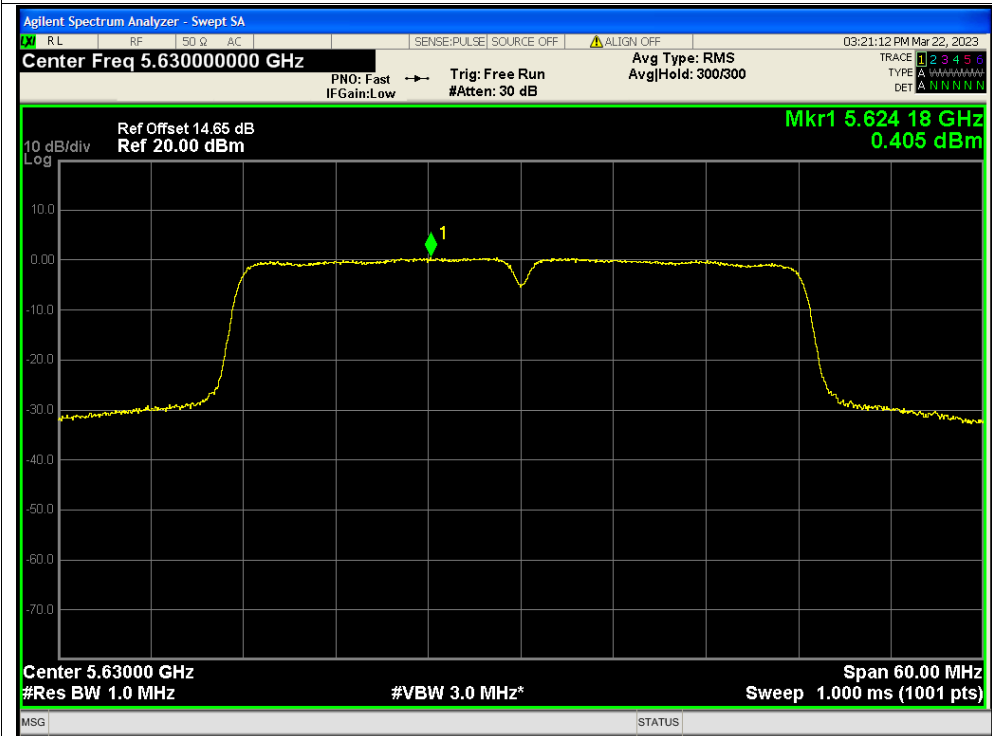


PSD NVNT ac40 5510MHz Ant1

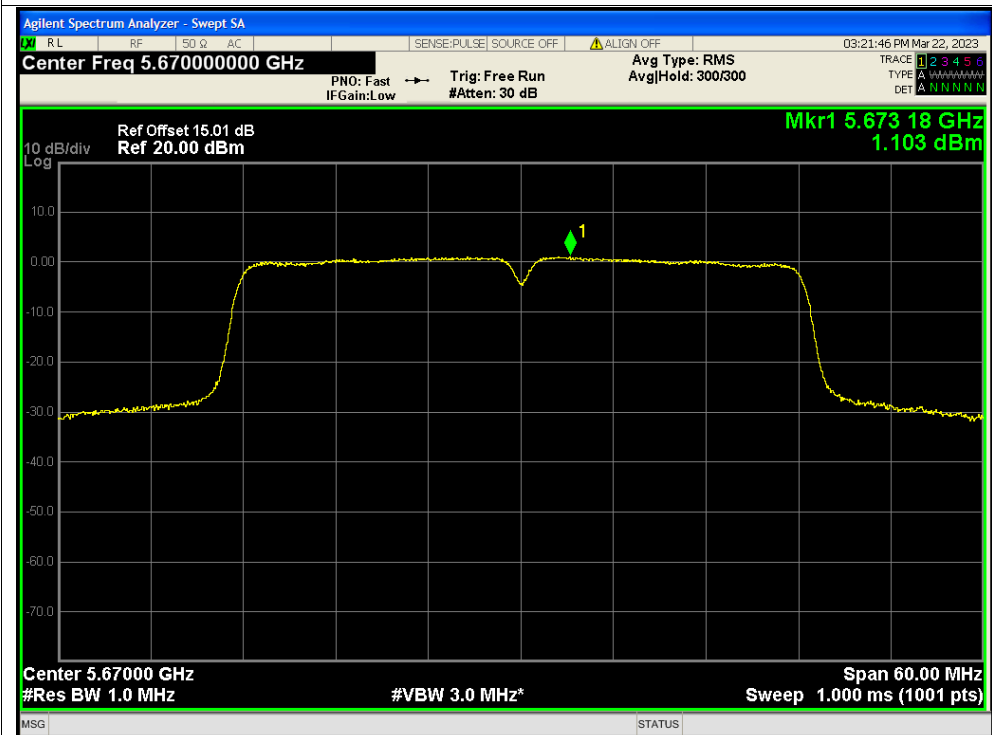




PSD NVNT ac40 5630MHz Ant1

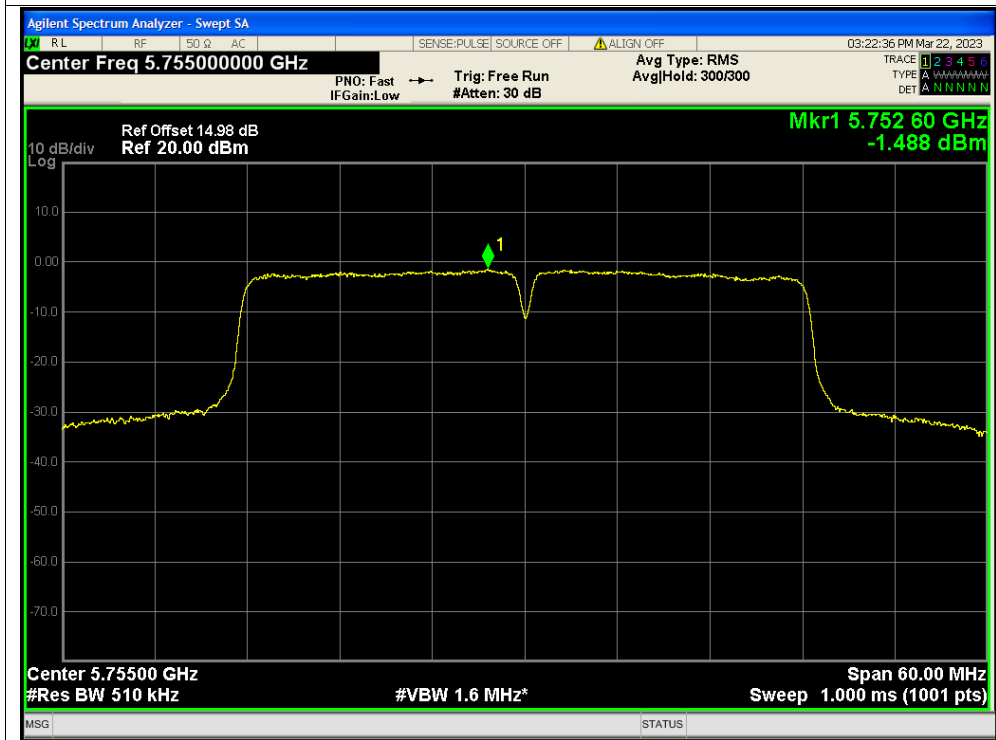


PSD NVNT ac40 5670MHz Ant1

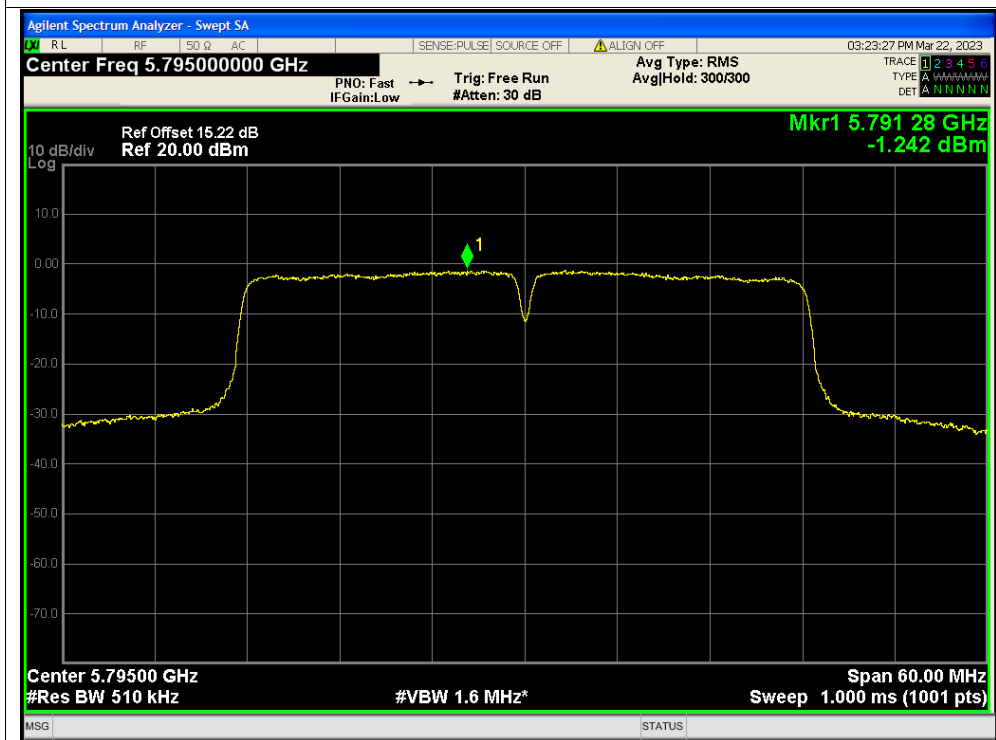




PSD NVNT ac40 5755MHz Ant1

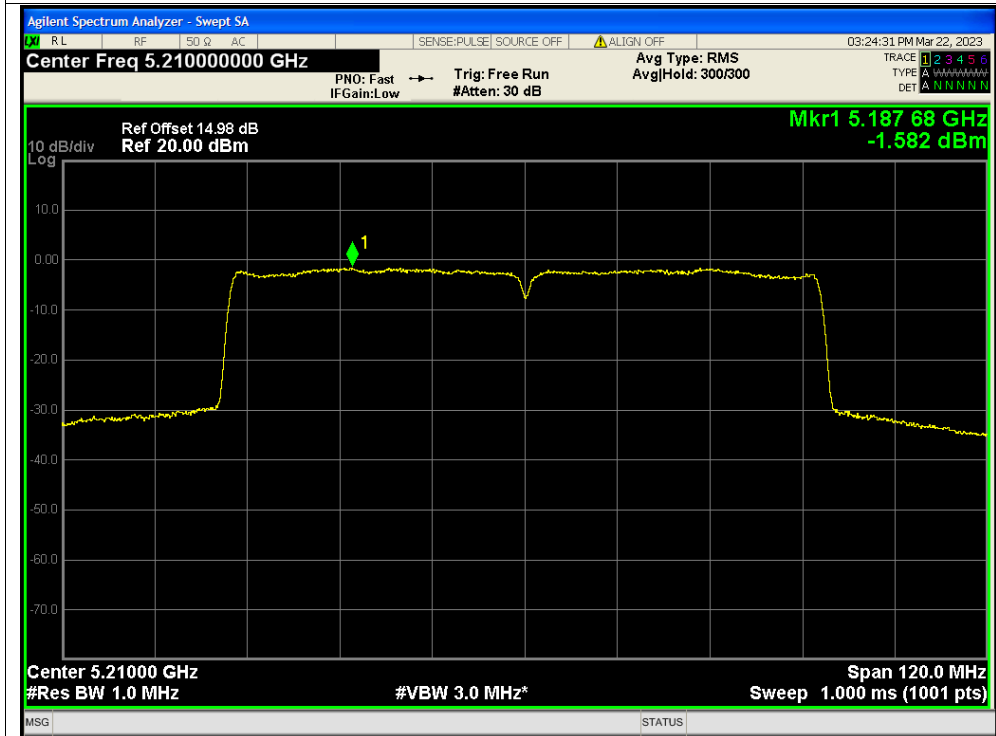


PSD NVNT ac40 5795MHz Ant1

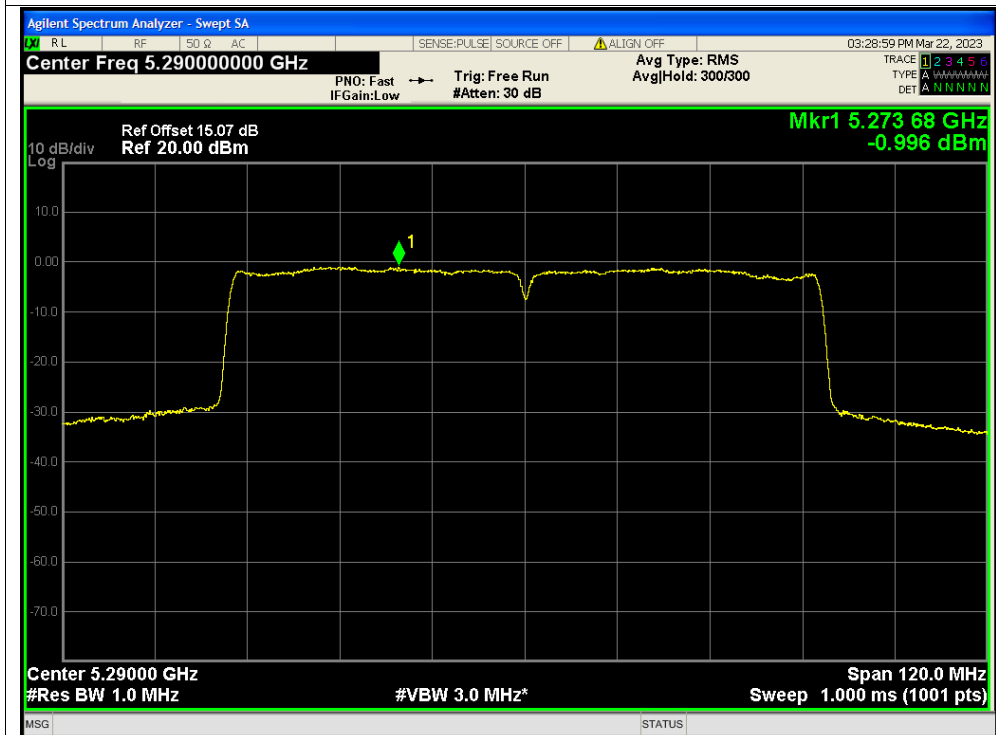




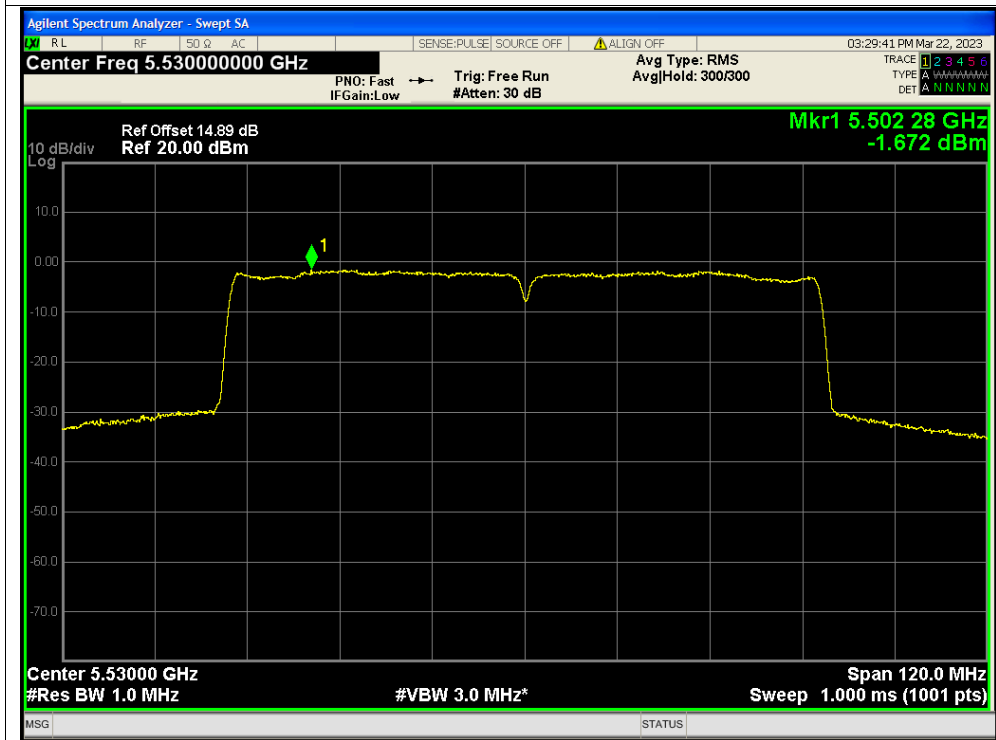
PSD NVNT ac80 5210MHz Ant1



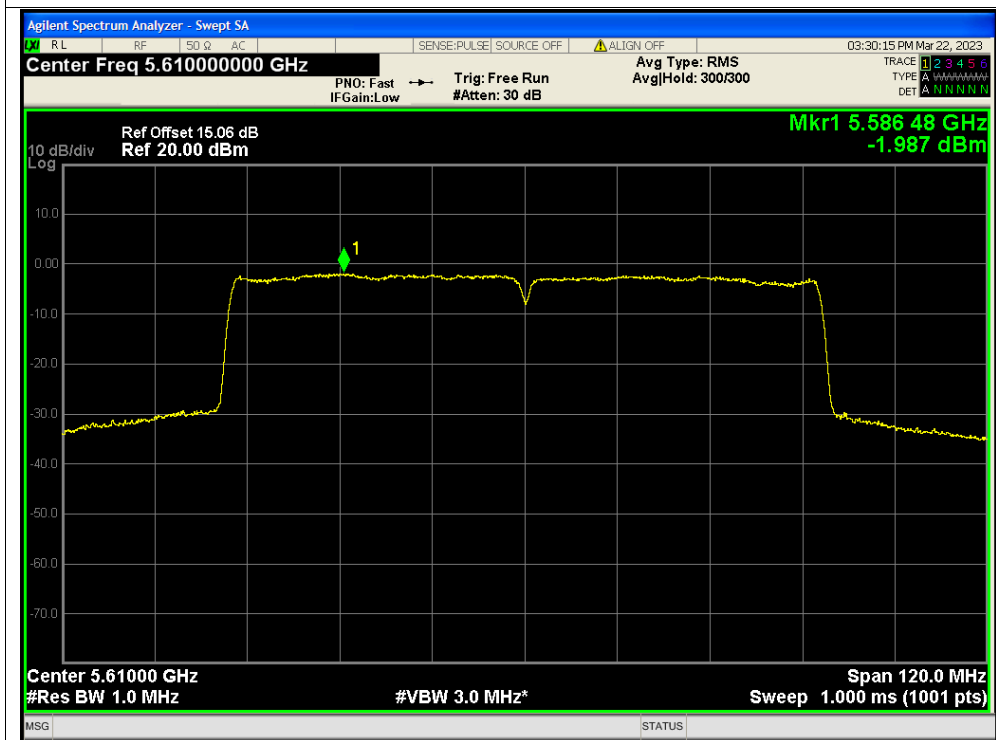
PSD NVNT ac80 5290MHz Ant1



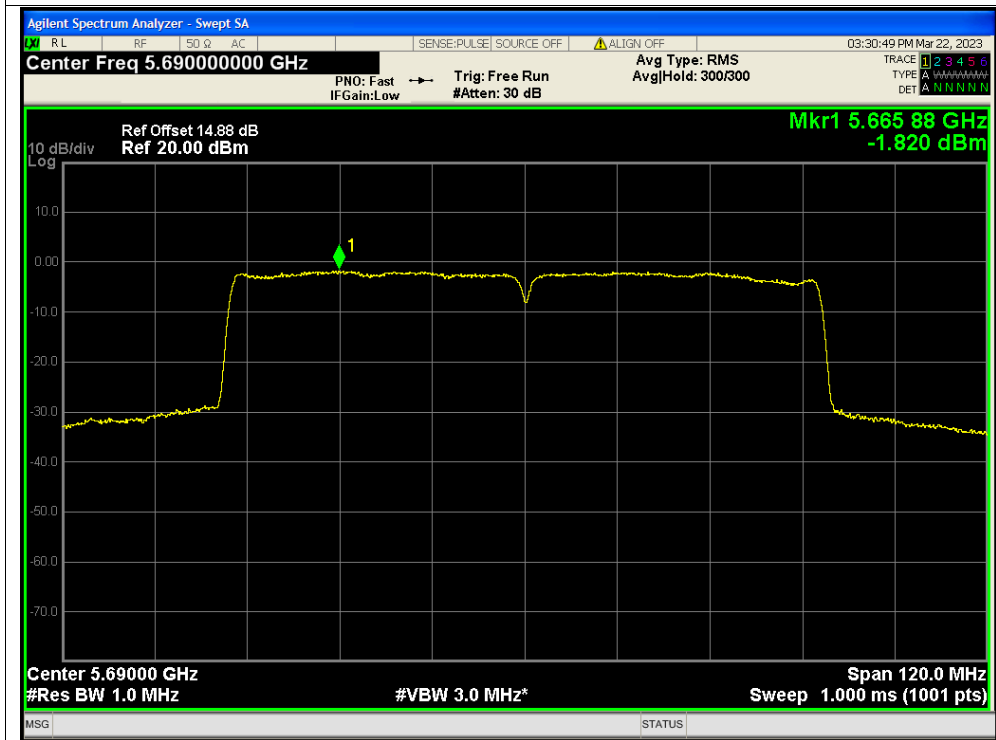
PSD NVNT ac80 5530MHz Ant1



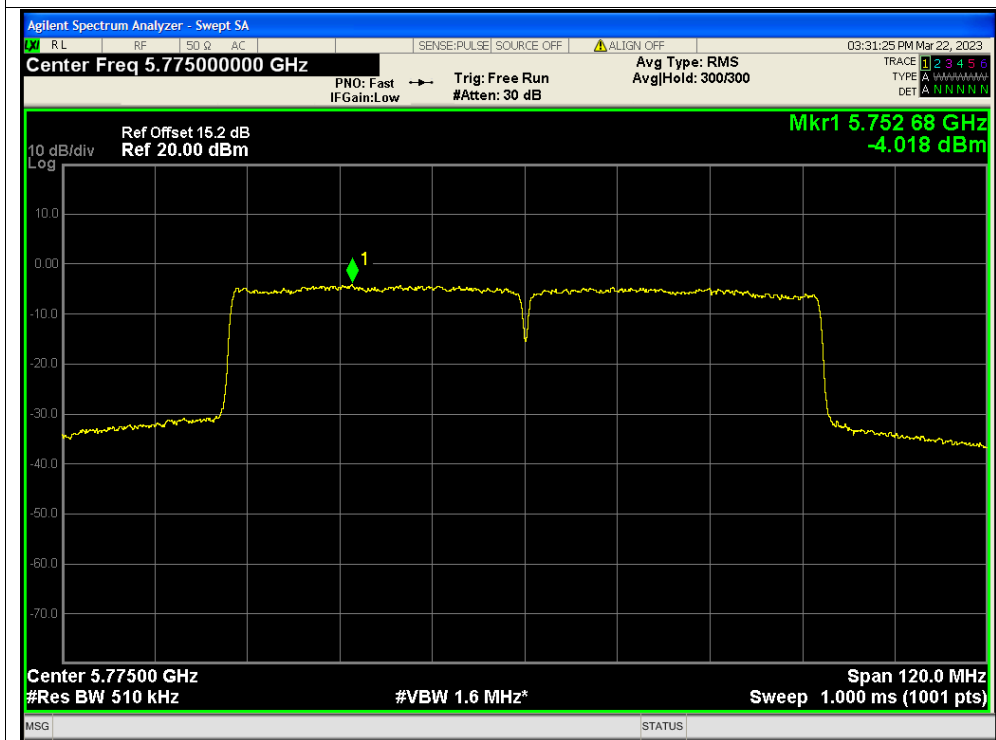
PSD NVNT ac80 5610MHz Ant1



PSD NVNT ac80 5690MHz Ant1



PSD NVNT ac80 5775MHz Ant1



**A.5. Frequency Stability**

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
20C 3.0V	Carrier	5180	Ant1	5179.99	-10000	-1.93	25	Pass
20C 3.89V	Carrier	5180	Ant1	5179.99	-10000	-1.93	25	Pass
20C 4.48V	Carrier	5180	Ant1	5179.99	-10000	-1.93	25	Pass
-20C 3.89V	Carrier	5180	Ant1	5179.99	-10000	-1.93	25	Pass
-10C 3.89V	Carrier	5180	Ant1	5179.99	-10000	-1.93	25	Pass
0C 3.89V	Carrier	5180	Ant1	5179.99	-10000	-1.93	25	Pass
10C 3.89V	Carrier	5180	Ant1	5179.99	-10000	-1.93	25	Pass
30C 3.89V	Carrier	5180	Ant1	5179.99	-10000	-1.93	25	Pass
40C 3.89V	Carrier	5180	Ant1	5179.99	-10000	-1.93	25	Pass
50C 3.89V	Carrier	5180	Ant1	5179.99	-10000	-1.93	25	Pass
20C 3.0V	Carrier	5260	Ant1	5259.99	-10000	-1.90	25	Pass
20C 3.89V	Carrier	5260	Ant1	5259.989	-11000	-2.09	25	Pass
20C 4.48V	Carrier	5260	Ant1	5259.99	-10000	-1.90	25	Pass
-20C 3.89V	Carrier	5260	Ant1	5259.99	-10000	-1.90	25	Pass
-10C 3.89V	Carrier	5260	Ant1	5259.99	-10000	-1.90	25	Pass
0C 3.89V	Carrier	5260	Ant1	5259.989	-11000	-2.09	25	Pass
10C 3.89V	Carrier	5260	Ant1	5259.989	-11000	-2.09	25	Pass
30C 3.89V	Carrier	5260	Ant1	5259.989	-11000	-2.09	25	Pass
40C 3.89V	Carrier	5260	Ant1	5259.989	-11000	-2.09	25	Pass
50C 3.89V	Carrier	5260	Ant1	5259.989	-11000	-2.09	25	Pass
20C 3.0V	Carrier	5500	Ant1	5499.988	-12000	-2.18	25	Pass
20C 3.89V	Carrier	5500	Ant1	5499.987	-13000	-2.36	25	Pass
20C 4.48V	Carrier	5500	Ant1	5499.988	-12000	-2.18	25	Pass
-20C 3.89V	Carrier	5500	Ant1	5499.988	-12000	-2.18	25	Pass
-10C 3.89V	Carrier	5500	Ant1	5499.988	-12000	-2.18	25	Pass
0C 3.89V	Carrier	5500	Ant1	5499.988	-12000	-2.18	25	Pass
10C 3.89V	Carrier	5500	Ant1	5499.988	-12000	-2.18	25	Pass
30C 3.89V	Carrier	5500	Ant1	5499.987	-13000	-2.36	25	Pass
40C 3.89V	Carrier	5500	Ant1	5499.987	-13000	-2.36	25	Pass
50C 3.89V	Carrier	5500	Ant1	5499.987	-13000	-2.36	25	Pass
20C 3.0V	Carrier	5745	Ant1	5744.988	-12000	-2.09	25	Pass
20C 3.89V	Carrier	5745	Ant1	5744.988	-12000	-2.09	25	Pass
20C 4.48V	Carrier	5745	Ant1	5744.988	-12000	-2.09	25	Pass
-20C 3.89V	Carrier	5745	Ant1	5744.988	-12000	-2.09	25	Pass



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-10C 3.89V	Carrier	5745	Ant1	5744.988	-12000	-2.09	25	Pass
0C 3.89V	Carrier	5745	Ant1	5744.988	-12000	-2.09	25	Pass
10C 3.89V	Carrier	5745	Ant1	5744.988	-12000	-2.09	25	Pass
30C 3.89V	Carrier	5745	Ant1	5744.987	-13000	-2.26	25	Pass
40C 3.89V	Carrier	5745	Ant1	5744.987	-13000	-2.26	25	Pass
50C 3.89V	Carrier	5745	Ant1	5744.987	-13000	-2.26	25	Pass



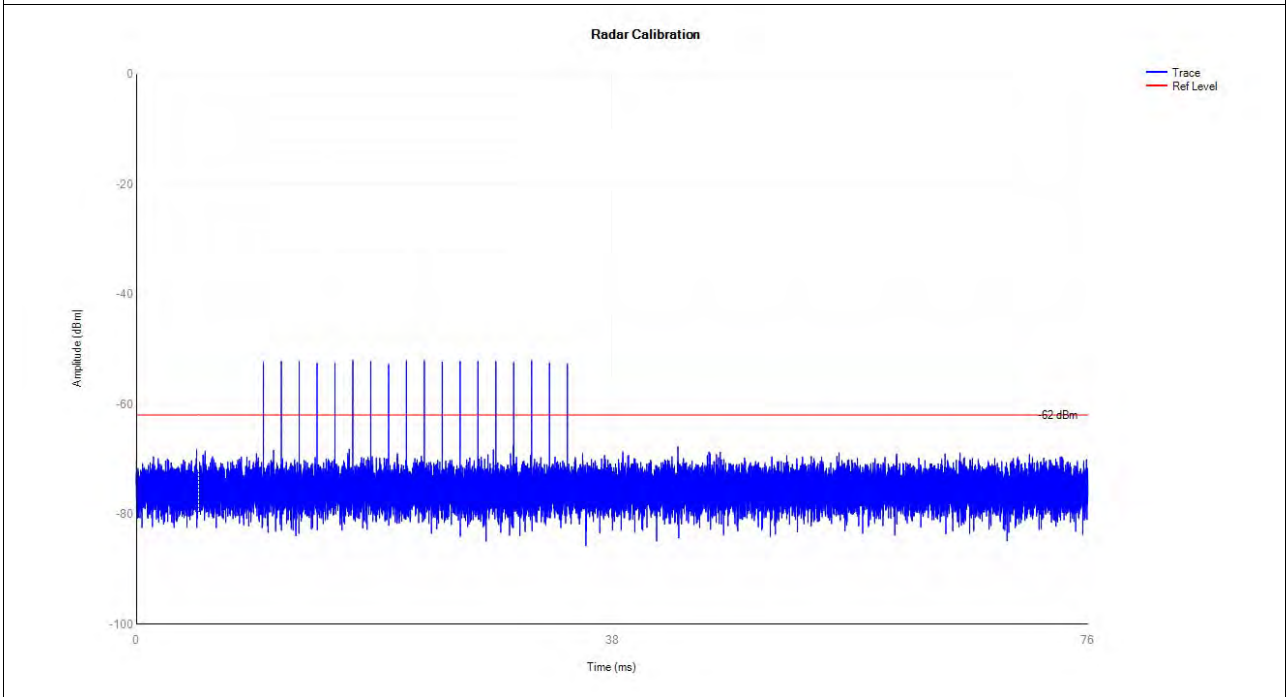
A.6. Dynamic Frequency Selection

Detection Thresholds

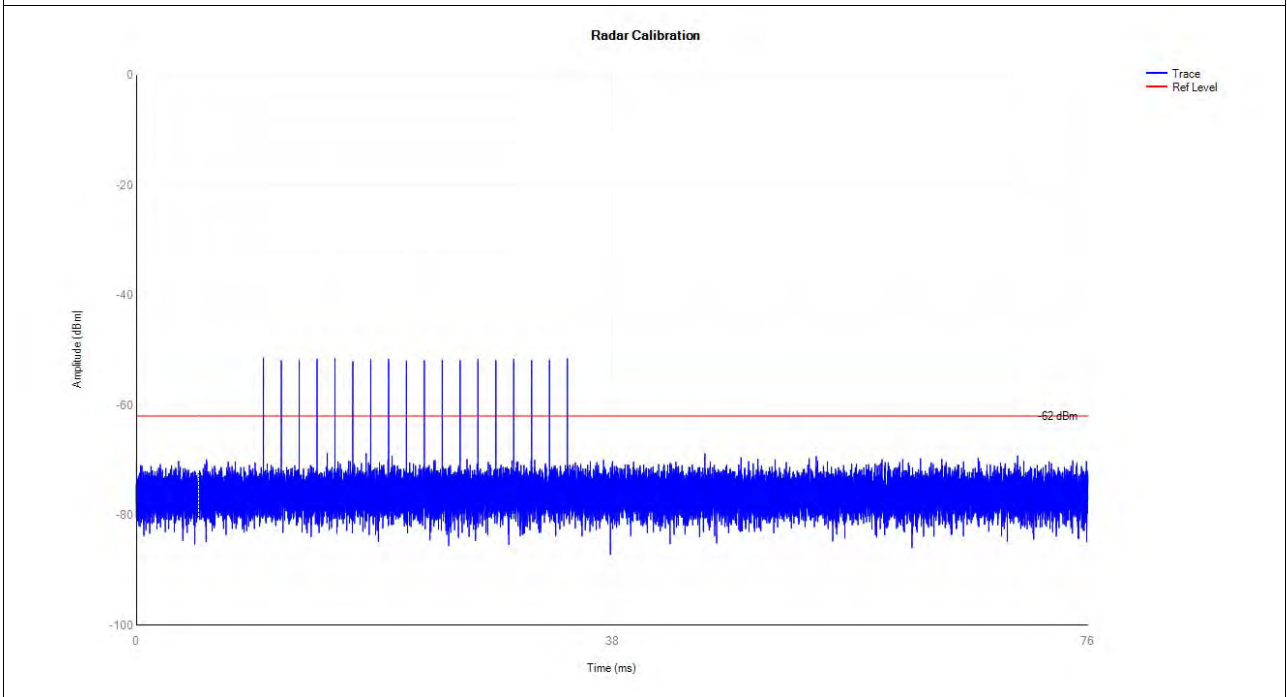
Mode	Frequency (MHz)	Type	Result	Verdict
a	5320	DFS_FCC_T0	See test Graph	Pass
a	5500	DFS_FCC_T0	See test Graph	Pass
ac80	5290	DFS_FCC_T0	See test Graph	Pass
ac80	5530	DFS_FCC_T0	See test Graph	Pass

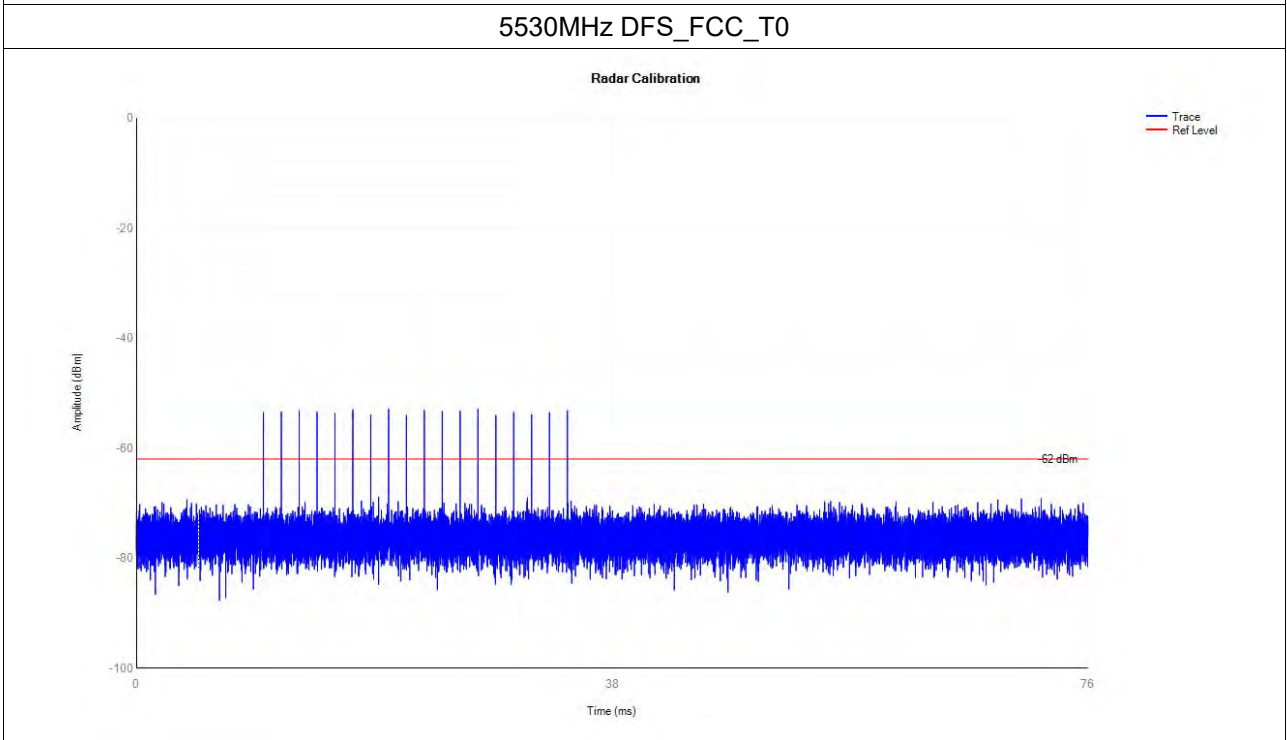
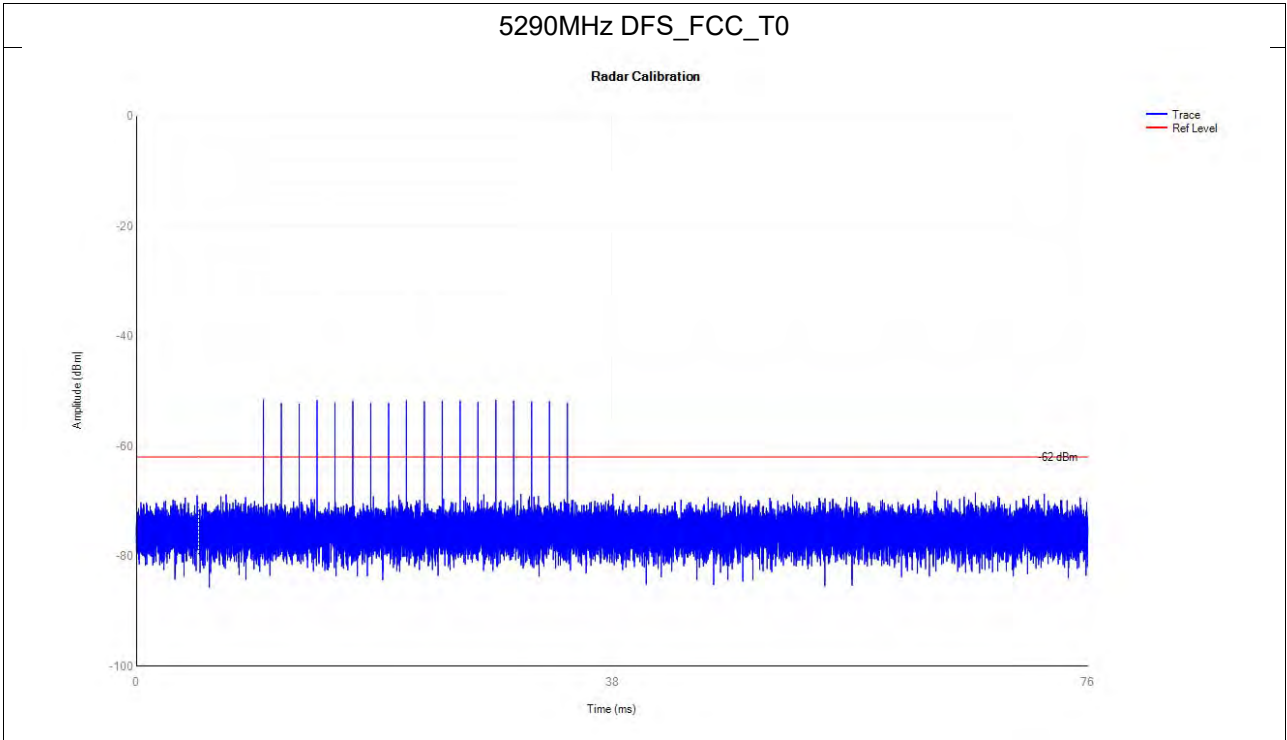
Test Graphs

5320MHz DFS_FCC_T0



5500MHz DFS_FCC_T0





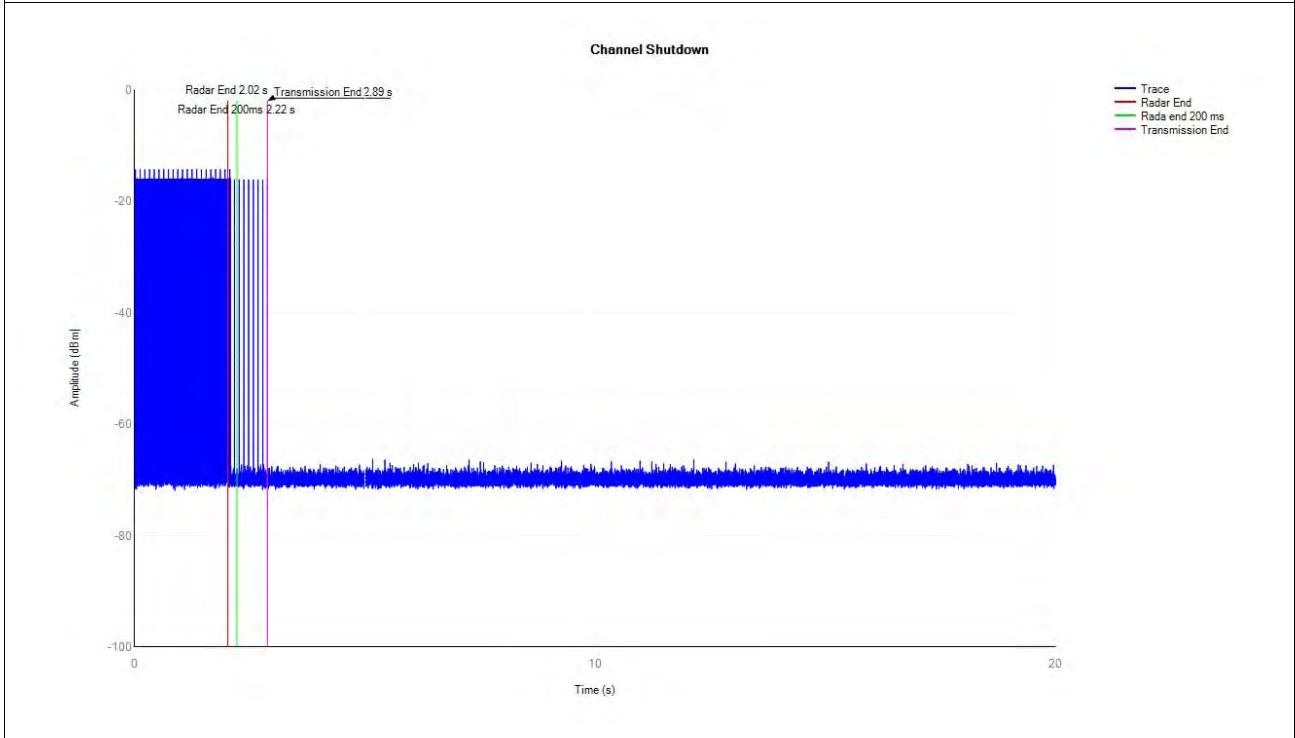


Channel Move Time and Channel Closing Transmission Time

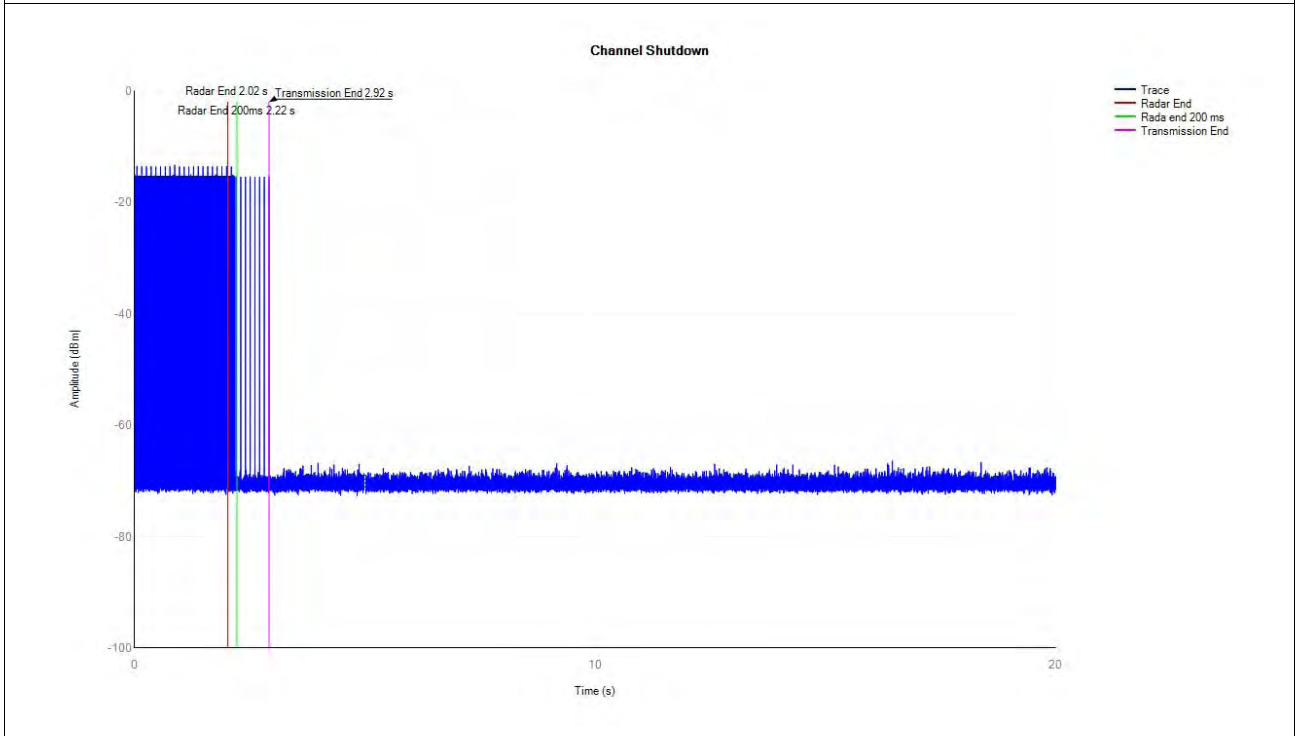
Mode	Frequency (MHz)	Channel Move Time (s)	Limit Channel Move Time (s)	Close Transmission Time (s)	Limit Close Transmission Time (s)	Close Transmission Time after 200ms(s)	Limit Close Transmission Time after 200ms (s)	Verdict
a	5320	0.864	10	0.035	0.26	0.009	0.06	Pass
a	5500	0.898	10	0.061	0.26	0.008	0.06	Pass
ac80	5290	0.75	10	0.016	0.26	0.007	0.06	Pass
ac80	5530	0.903	10	0.051	0.26	0.009	0.06	Pass

Test Graphs

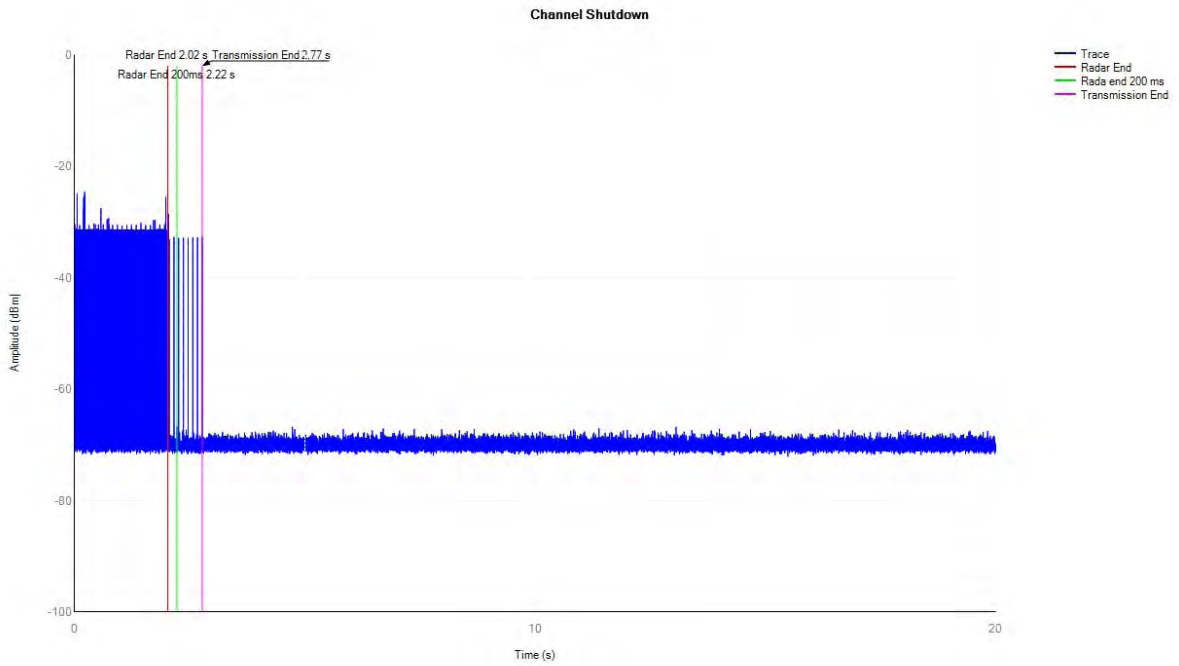
a 5320MHz Shutdown



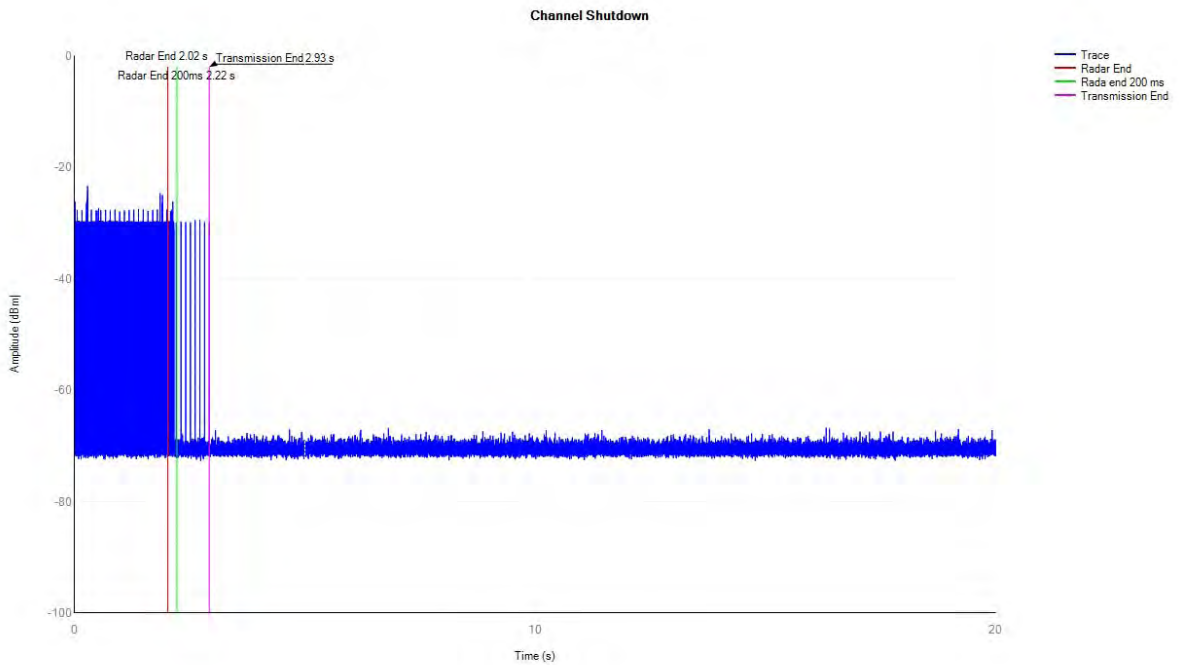
a 5500MHz Shutdown



ac80 5290MHz Shutdown



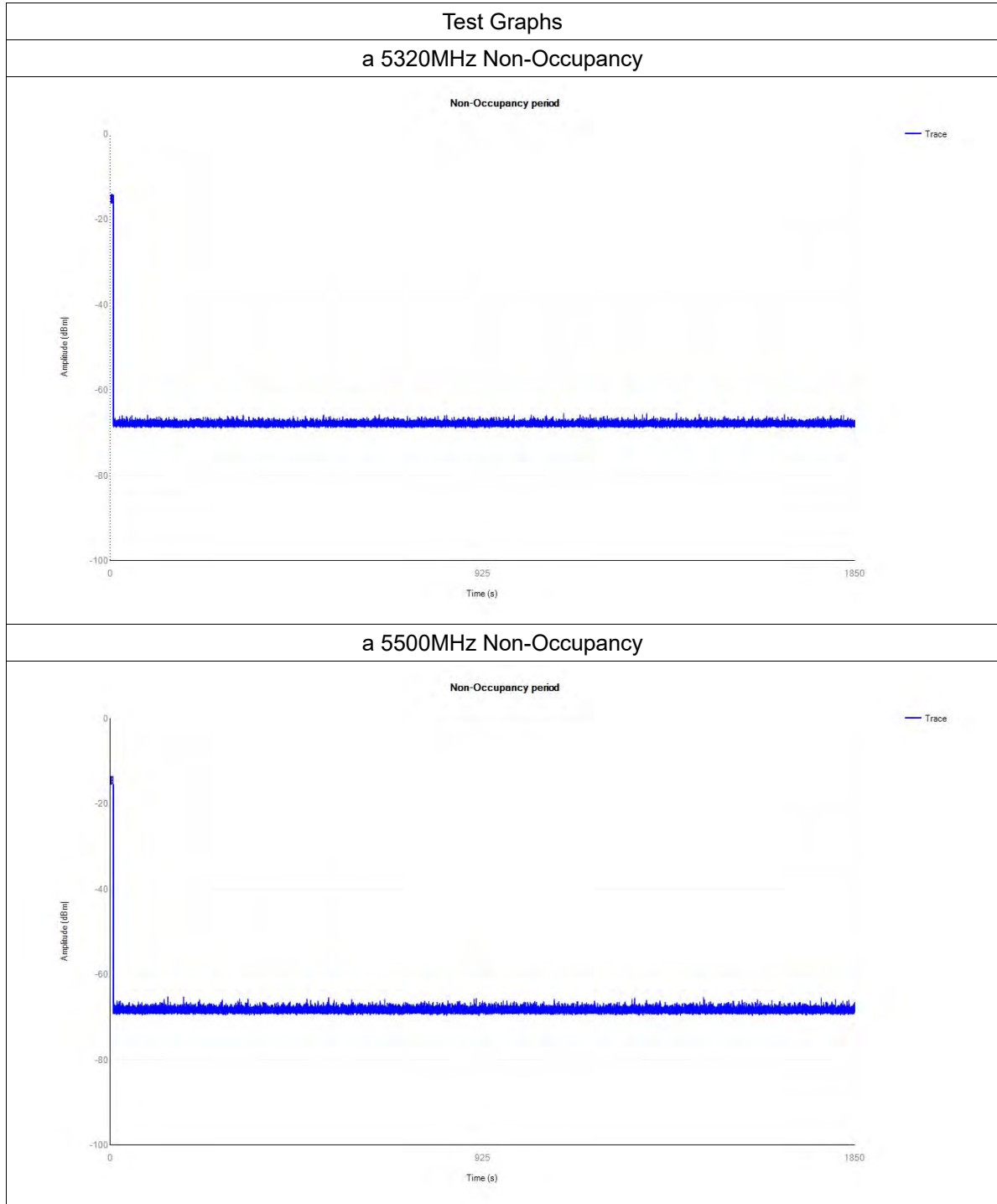
ac80 5530MHz Shutdown





Non-Occupancy Period

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





A.7. Conducted Emission

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Set RBW=9kHz, VBW=30kHz. Refer to recorded points and plots below.

Note: Both of the test voltage AC 120V/60Hz and AC 230V/50Hz were considered and tested respectively, only the results of the worst case AC 120V/60Hz were recorded in this report.

A. Test Setup:

Test Mode: EUT + Adapter + USB Cable + Earphone + WIFI TX

Test voltage: AC 120V/60Hz

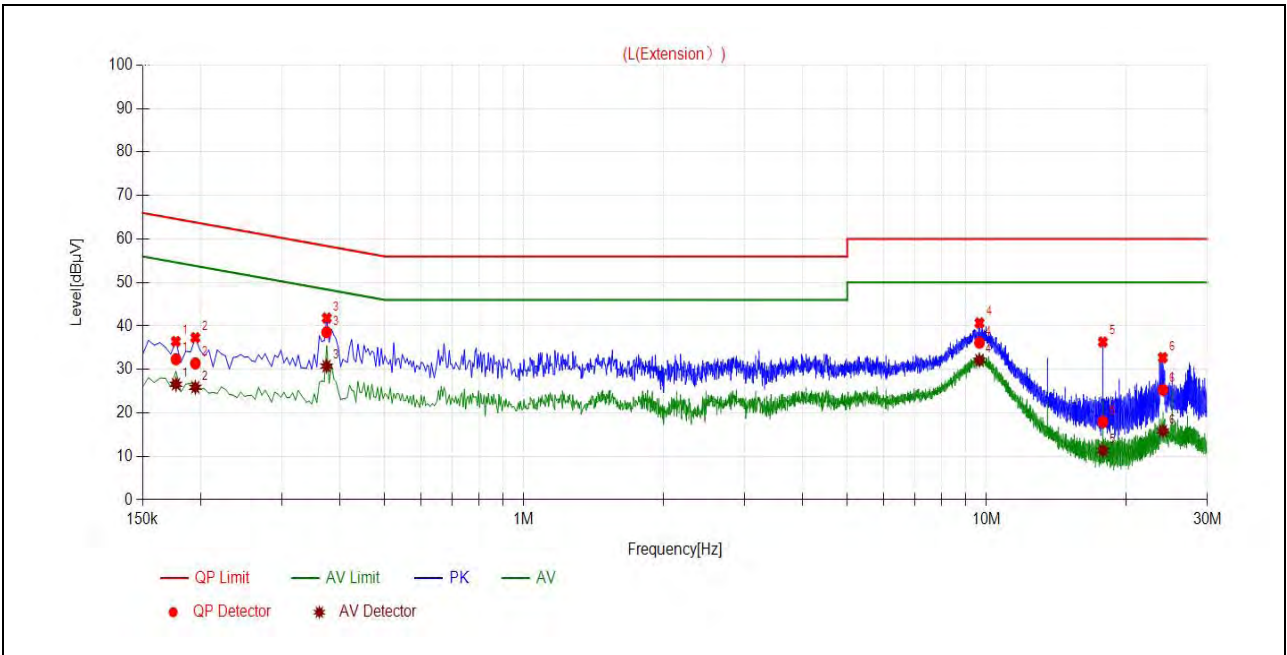
The measurement results are obtained as below:

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

U_R : Receiver Reading

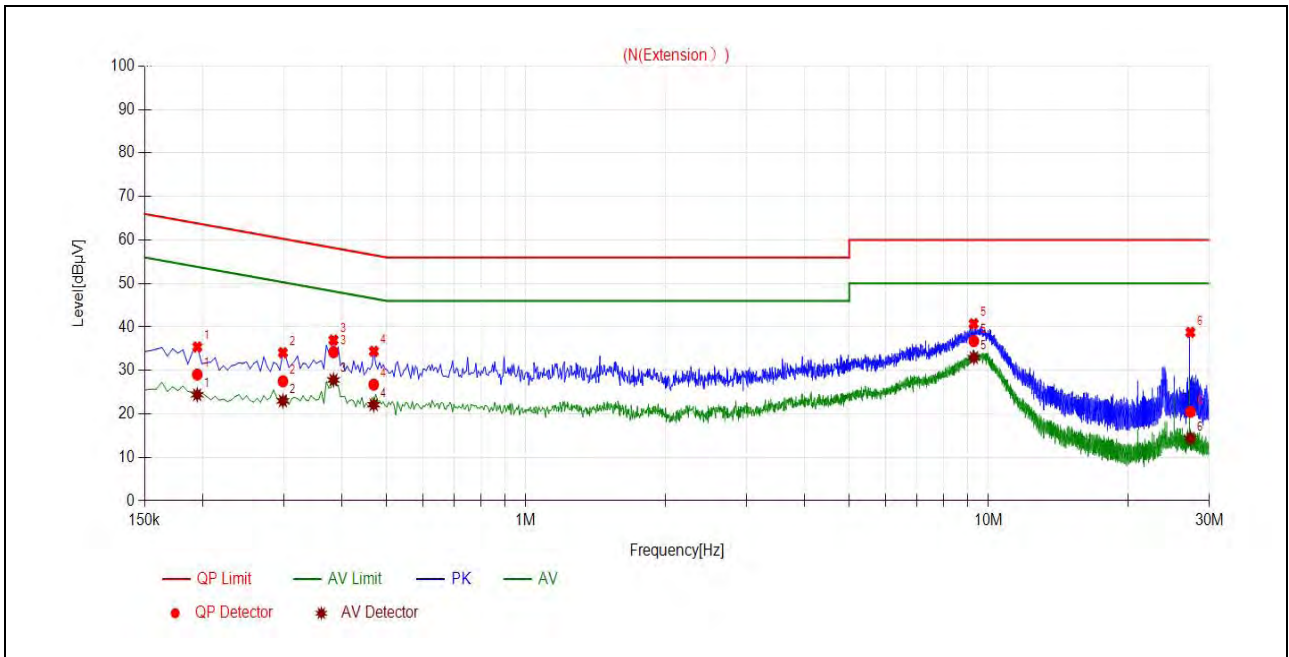
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1771	32.32	26.59	64.62	54.62	Line	PASS
2	0.1950	31.37	25.89	63.82	53.82		PASS
3	0.3747	38.55	30.76	58.40	48.40		PASS
4	9.6498	36.13	32.11	60.00	50.00		PASS
5	17.8429	17.94	11.35	60.00	50.00		PASS
6	24.0543	25.29	15.85	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	0.1949	29.05	63.82	63.82	63.82	Neutral	PASS
2	0.2985	27.50	60.28	60.28	60.28		PASS
3	0.3841	34.19	58.19	58.19	58.19		PASS
4	0.4691	26.72	56.53	56.53	56.53		PASS
5	9.2928	36.73	60.00	60.00	60.00		PASS
6	27.2981	20.47	60.00	60.00	60.00		PASS



A.8. Restricted Frequency Bands

The lowest and highest channels are tested to verify the Restricted Frequency Bands.

The measurement results are obtained as below:

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

A_T : Total correction Factor except Antenna

U_R : Receiver Reading

G_{preamp} : Preamplifier Gain

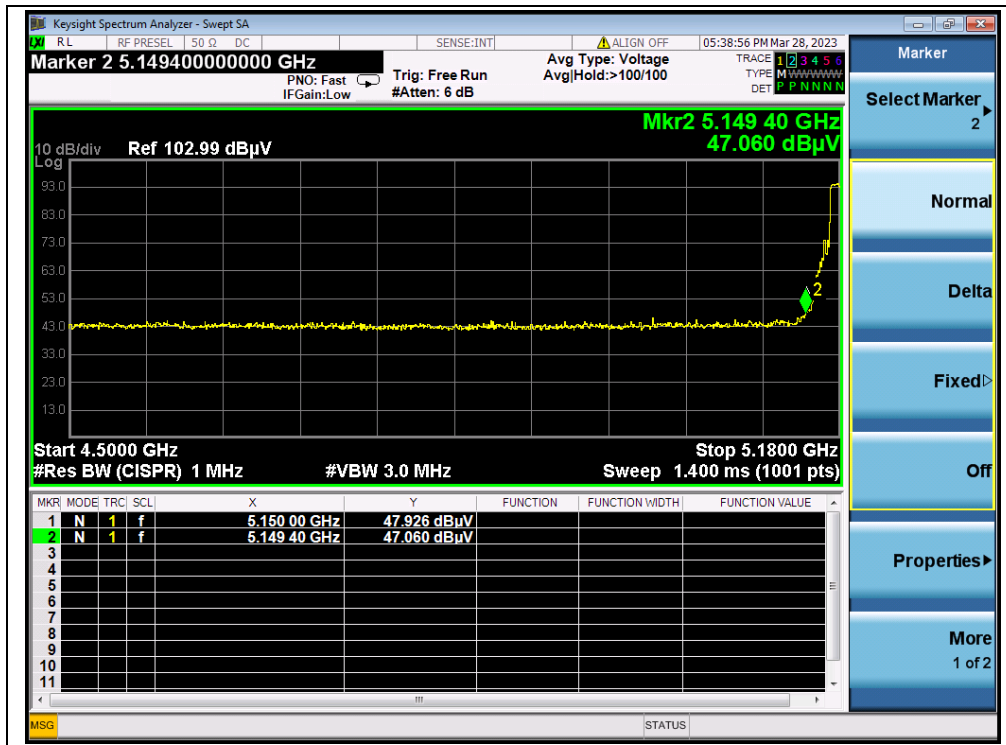
A_{Factor} : Antenna Factor at 3m

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

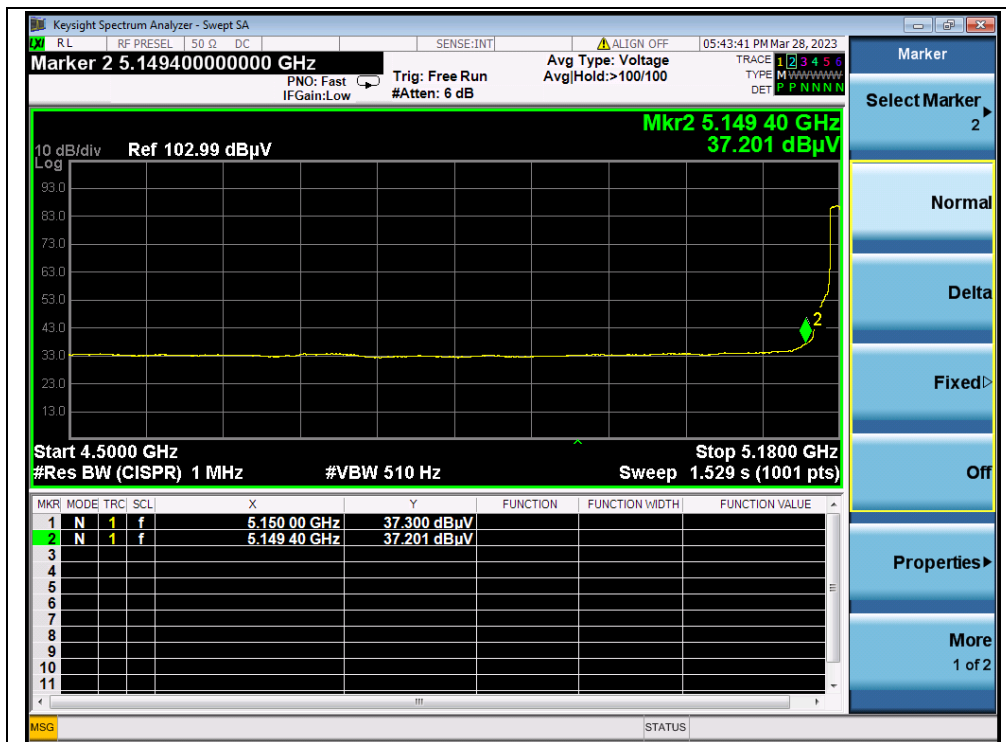
Note 2: All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.

802.11a Mode

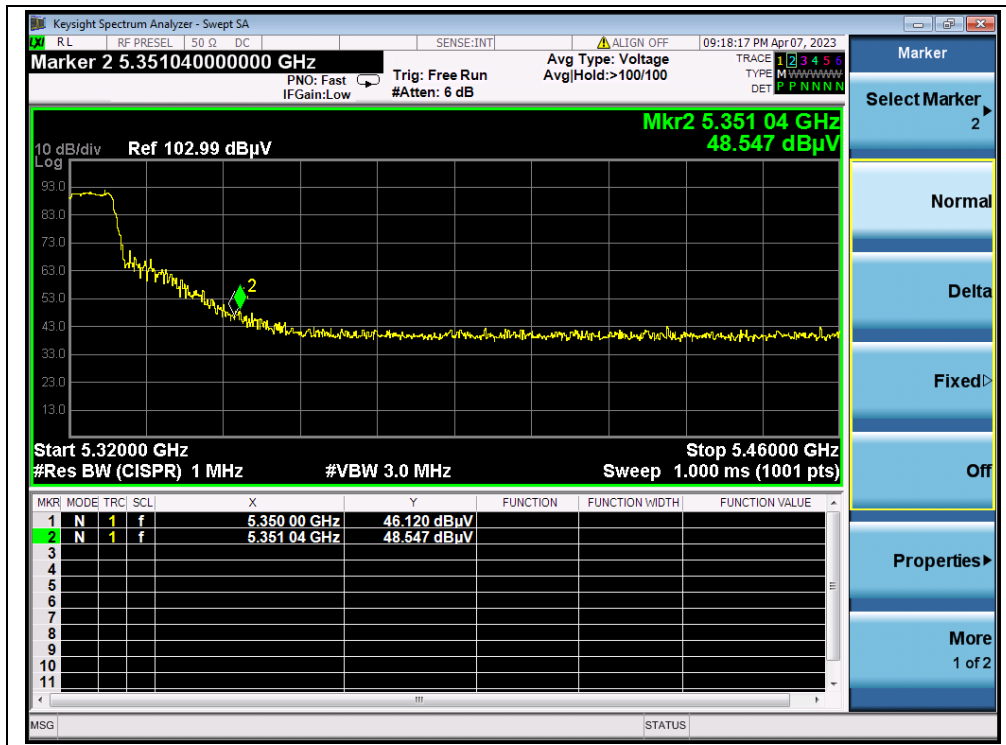
Channel	Frequency (MHz)	Detector	Receiver Reading	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV	U_R (dB μ V)					
36	5150.00	PK	47.93	-19.54	32.20	60.59	74	PASS
36	5150.00	AV	37.30	-19.54	32.20	49.96	54	PASS
64	5351.04	PK	48.55	-18.80	32.20	61.95	74	PASS
64	5350.00	AV	37.42	-18.80	32.20	50.82	54	PASS
100	5468.67	PK	49.71	-19.20	32.20	62.71	68.23	PASS
100	5028.03	AV	36.53	-19.20	32.20	49.53	54	PASS
140	5727.00	PK	51.80	-19.20	32.20	64.80	68.23	PASS
149	5725.00	PK	64.62	-19.01	32.20	77.81	122.23	PASS
165	5850.00	PK	45.74	-19.01	32.20	58.93	122.23	PASS



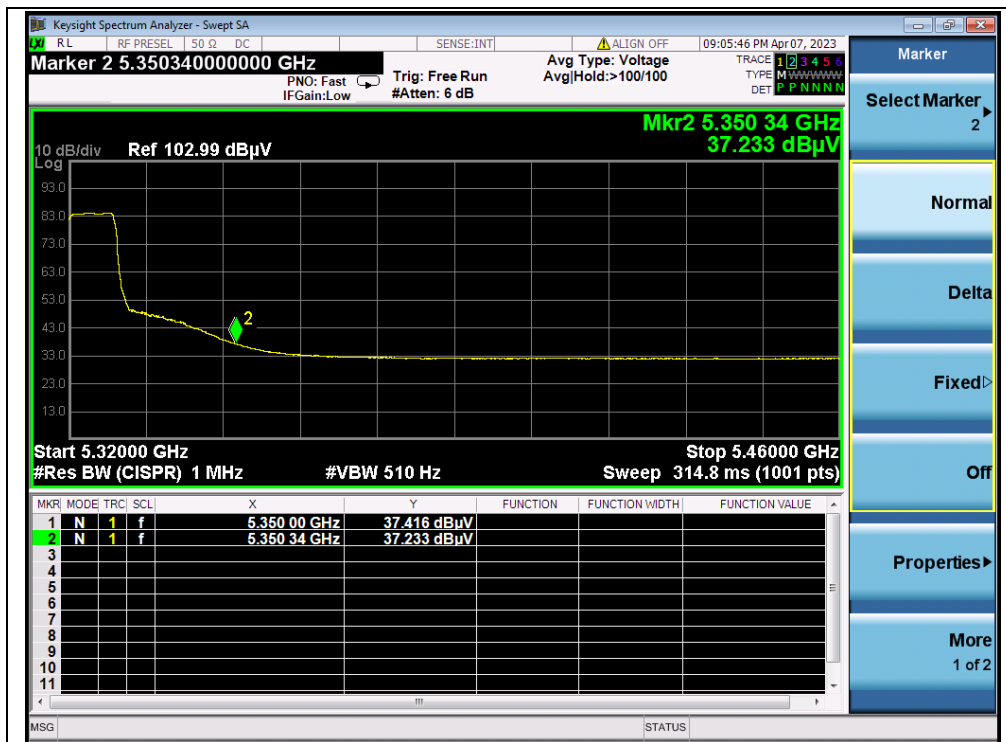
(PEAK, Channel 36, 802.11a)



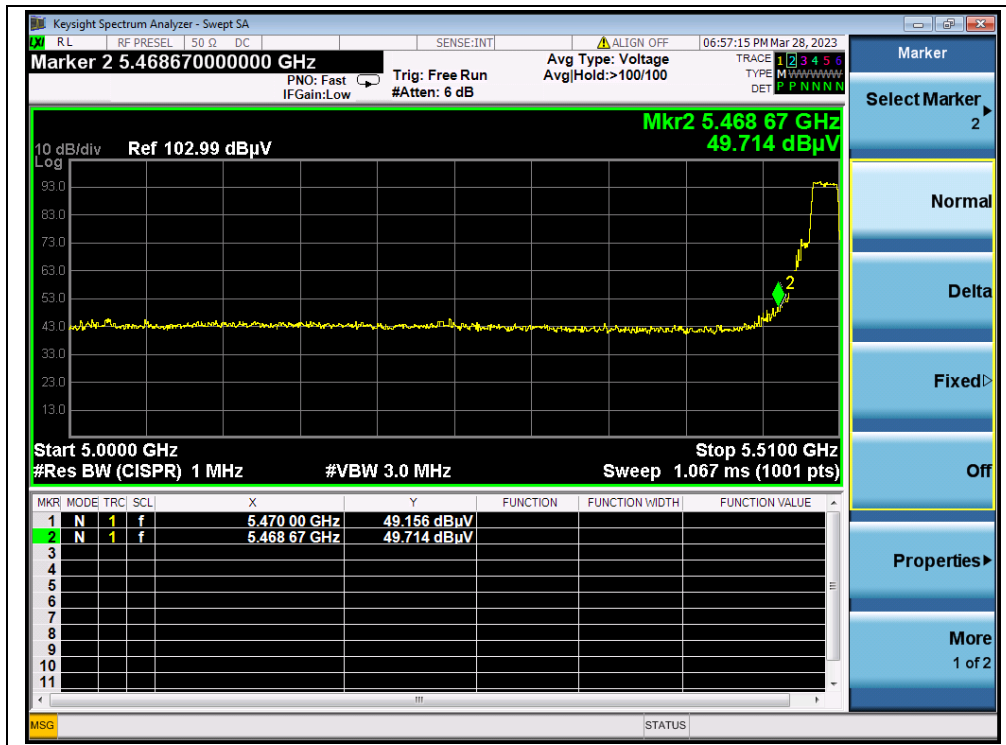
(AVERAGE, Channel 36, 802.11a)



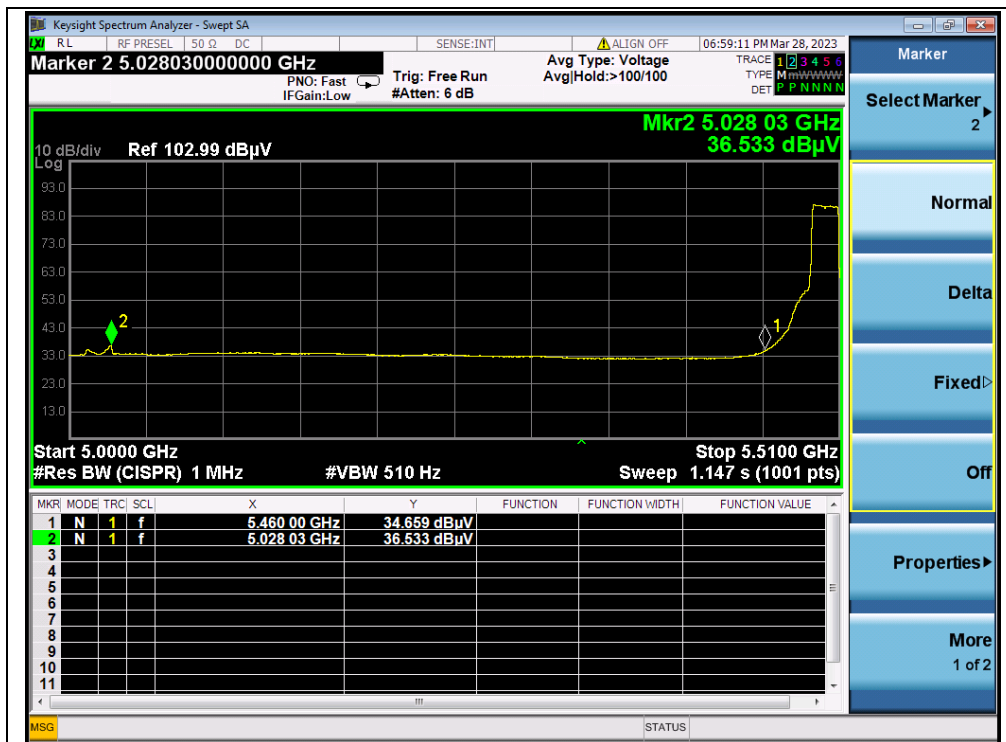
(PEAK, Channel 64, 802.11a)



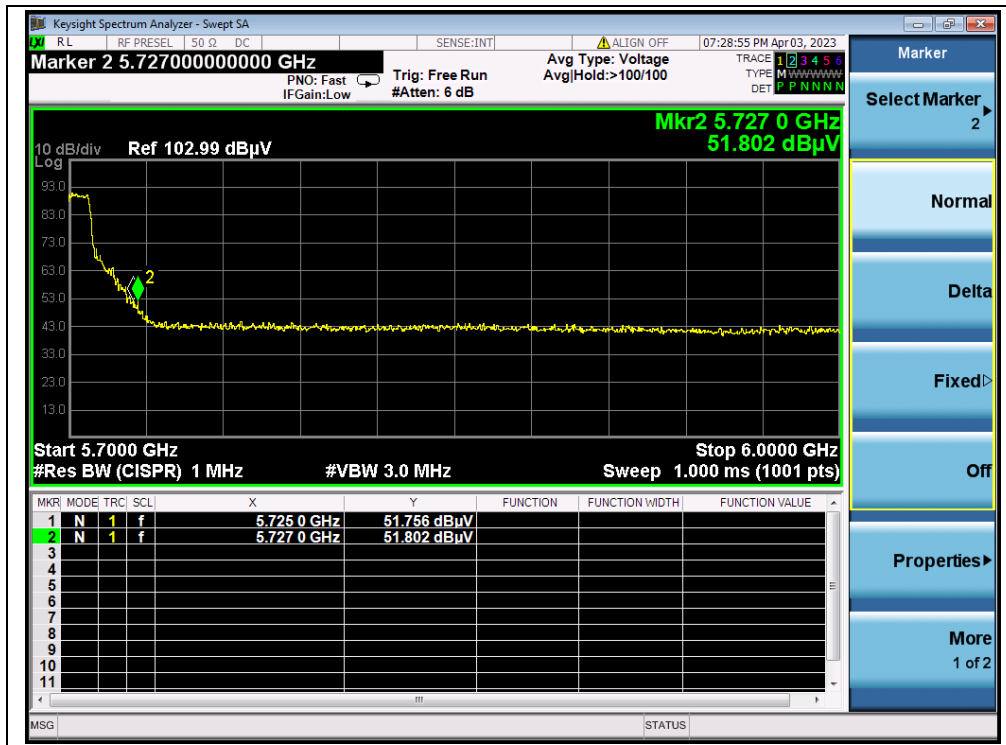
(AVERAGE, Channel 64, 802.11a)



(PEAK, Channel 100, 802.11a)



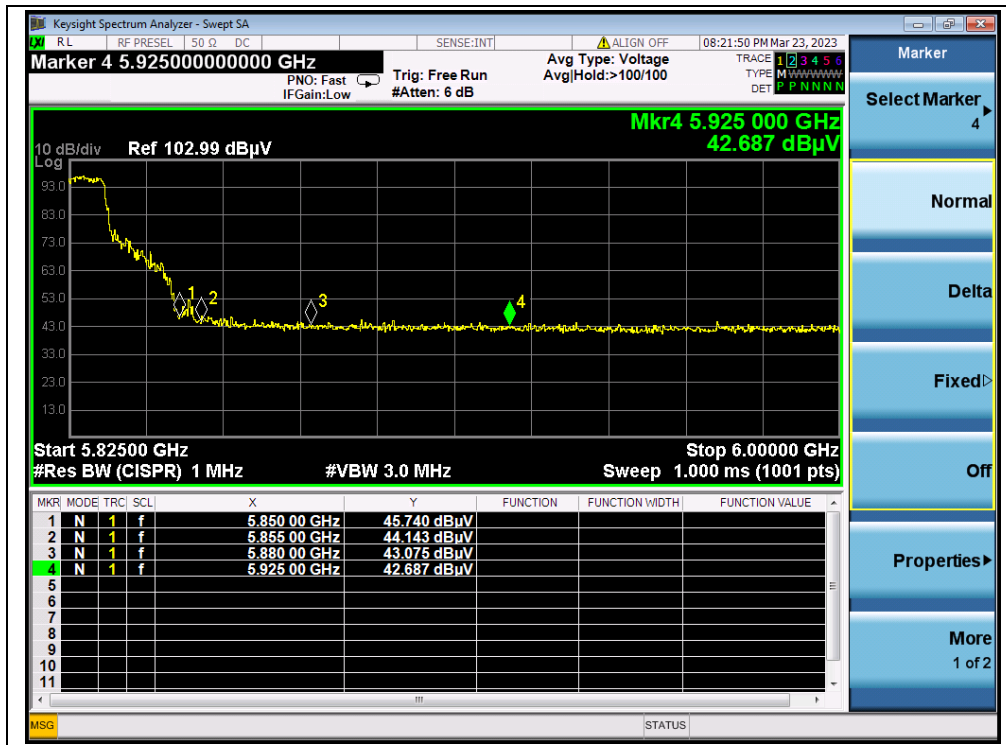
(AVERAGE, Channel 100, 802.11a)



(PEAK, Channel 140, 802.11a)



(PEAK, Channel 149, 802.11a)

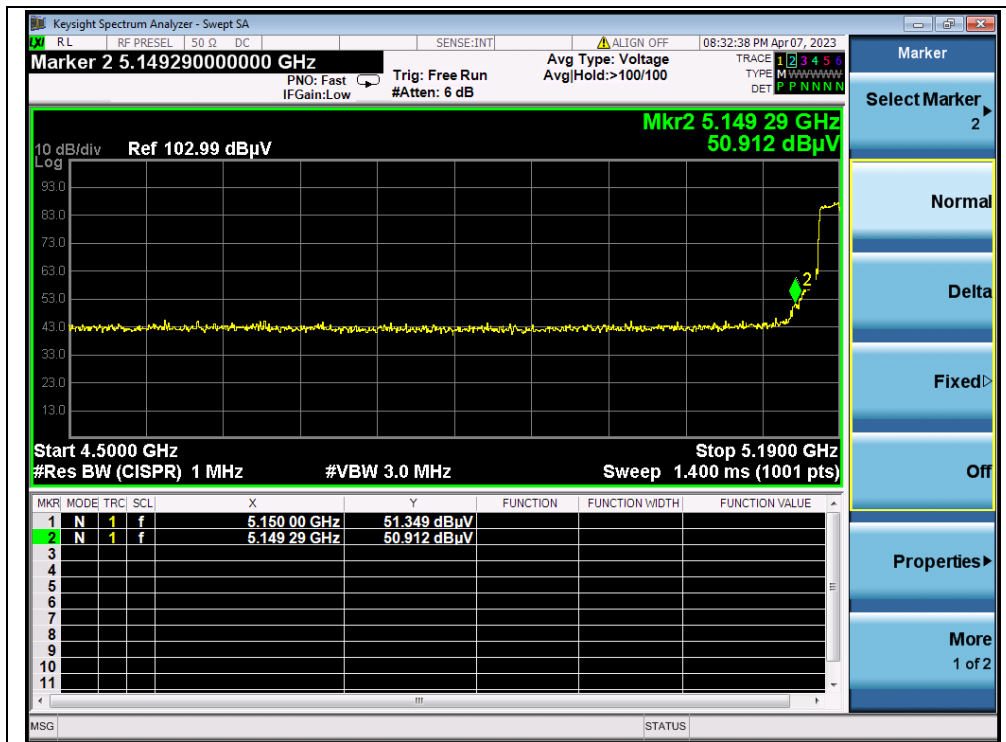


(PEAK, Channel 165, 802.11a)

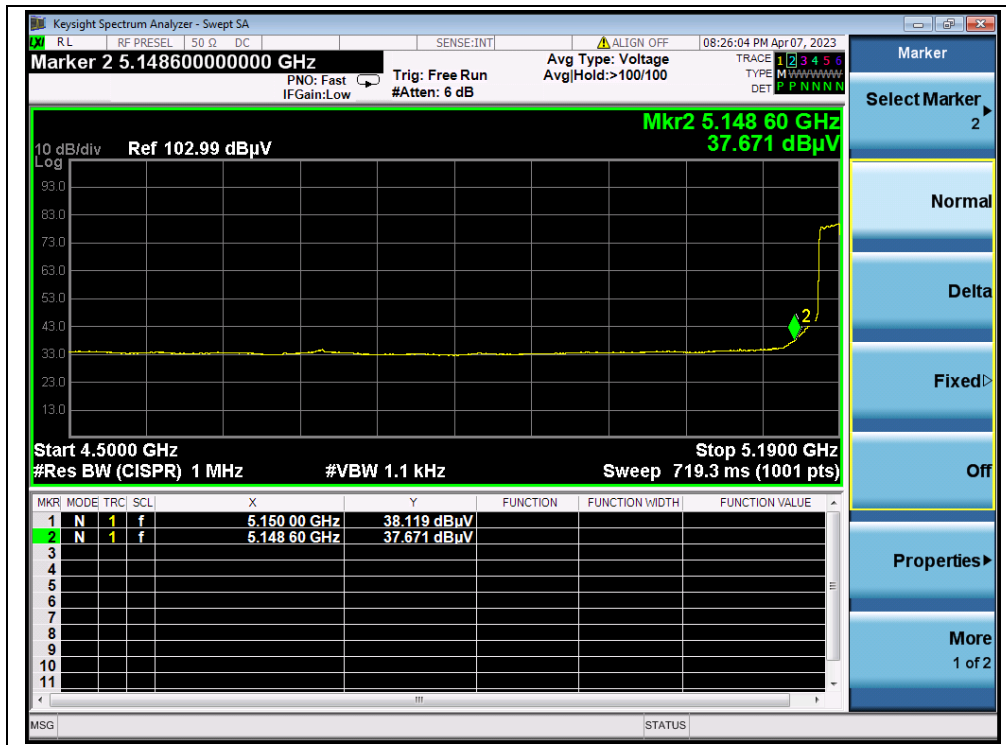


802.11n (HT40) Mode

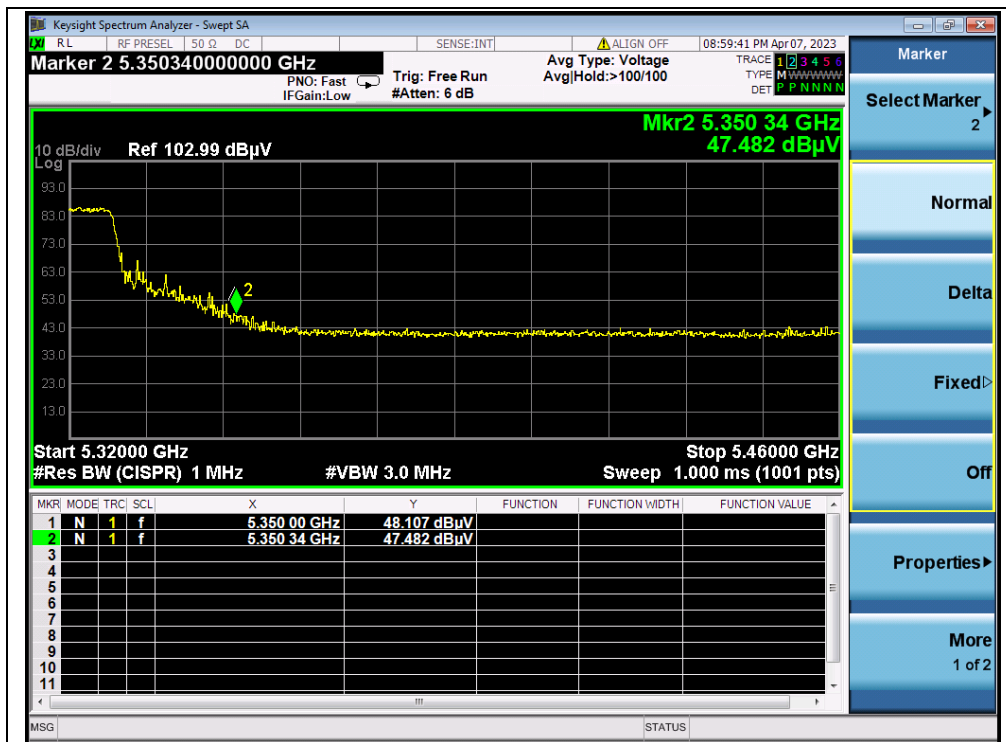
Channel	Frequency (MHz)	Detector	Receiver Reading	A_T	A_{Factor}	Max. Emission	Limit (dB μ V/m)	Verdict
		PK/ AV	U_R (dB μ V)	(dB)	(dB@3m)	E (dB μ V/m)		
38	5150.00	PK	51.35	-19.54	32.20	64.01	74	PASS
38	5150.00	AV	38.12	-19.54	32.20	50.78	54	PASS
62	5350.00	PK	48.11	-18.80	32.20	61.51	74	PASS
62	5351.46	AV	36.49	-18.80	32.20	49.89	54	PASS
102	5468.16	PK	48.93	-19.20	32.20	61.93	68.23	PASS
102	5046.90	AV	37.22	-19.20	32.20	50.22	54	PASS
134	5729.51	PK	50.85	-19.20	32.20	63.85	68.23	PASS
151	5725.00	PK	67.07	-19.01	32.20	80.26	122.23	PASS
159	5850.00	PK	48.51	-19.01	32.20	61.70	122.23	PASS



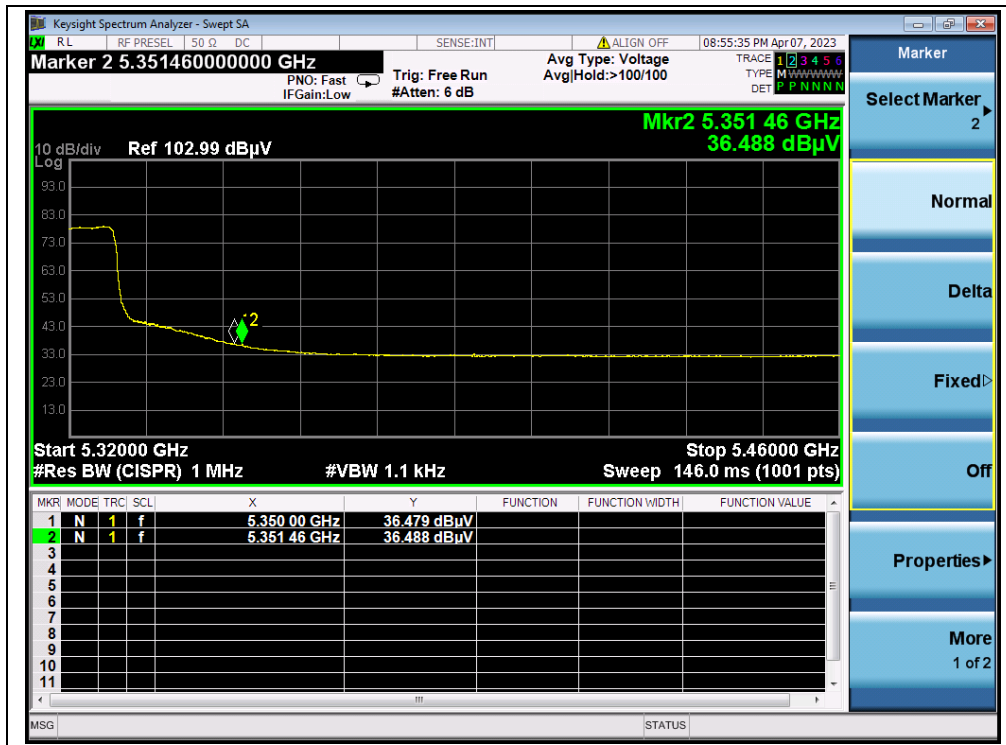
(PEAK, Channel 38, 802.11n (HT40))



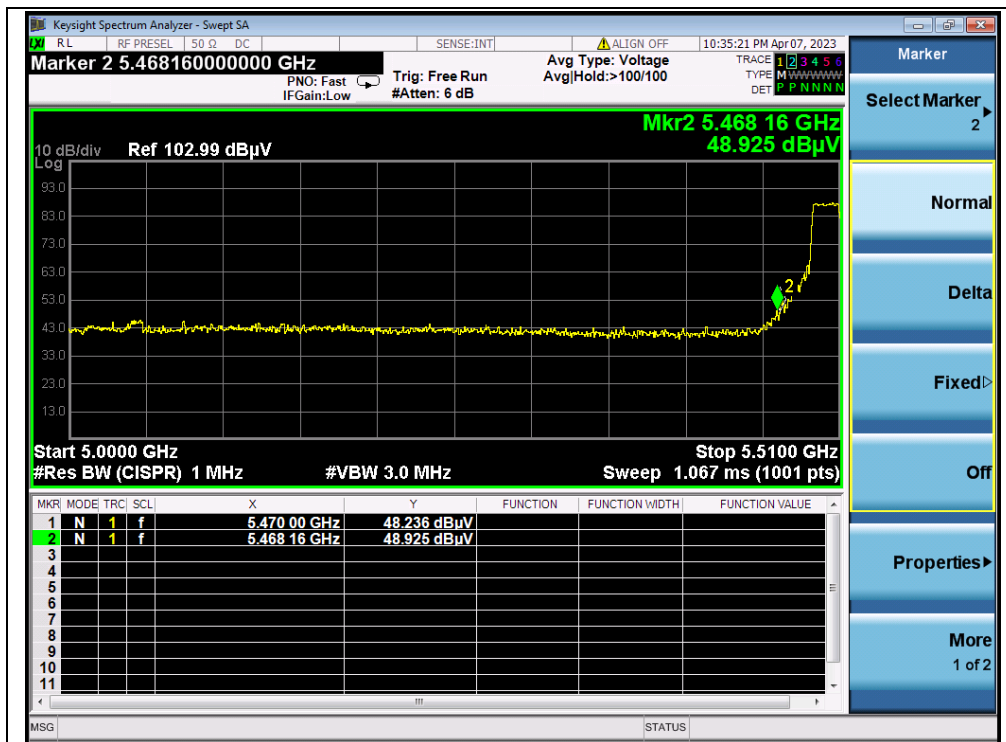
(AVERAGE, Channel 38, 802.11n (HT40))



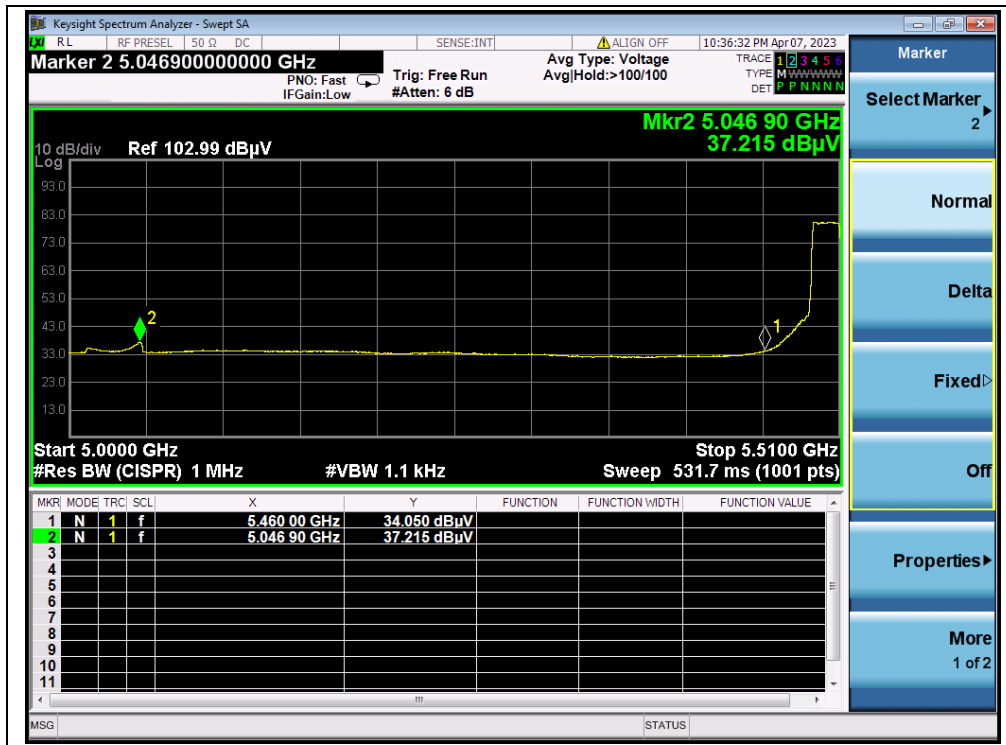
(PEAK, Channel 62, 802.11n (HT40))



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



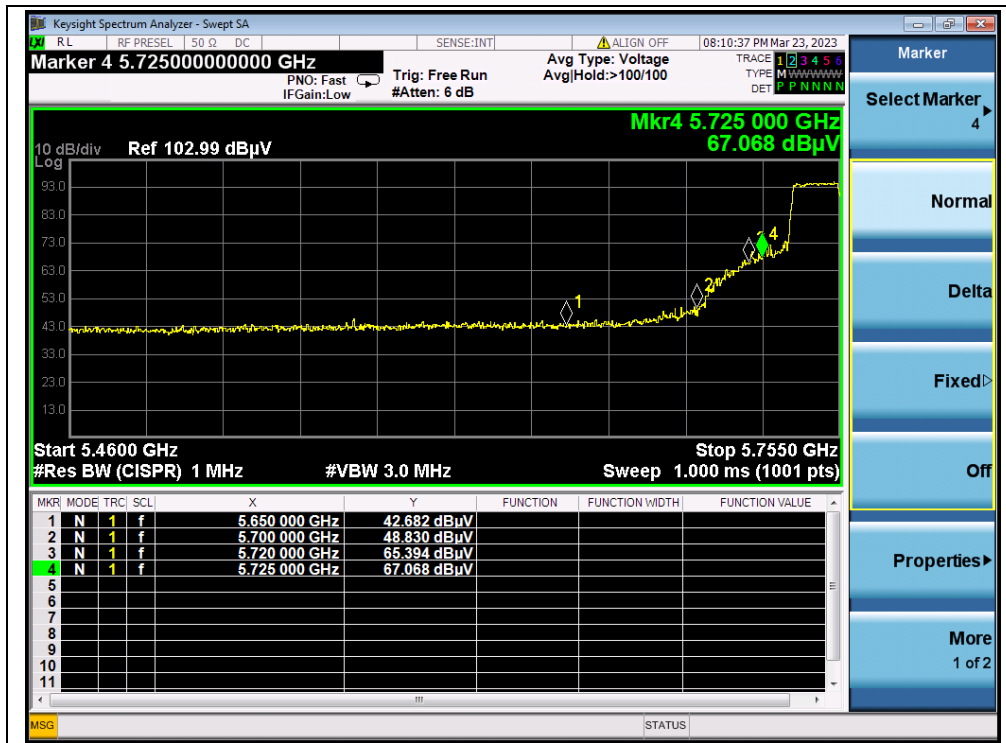
(PEAK, Channel 102, 802.11n (HT40))



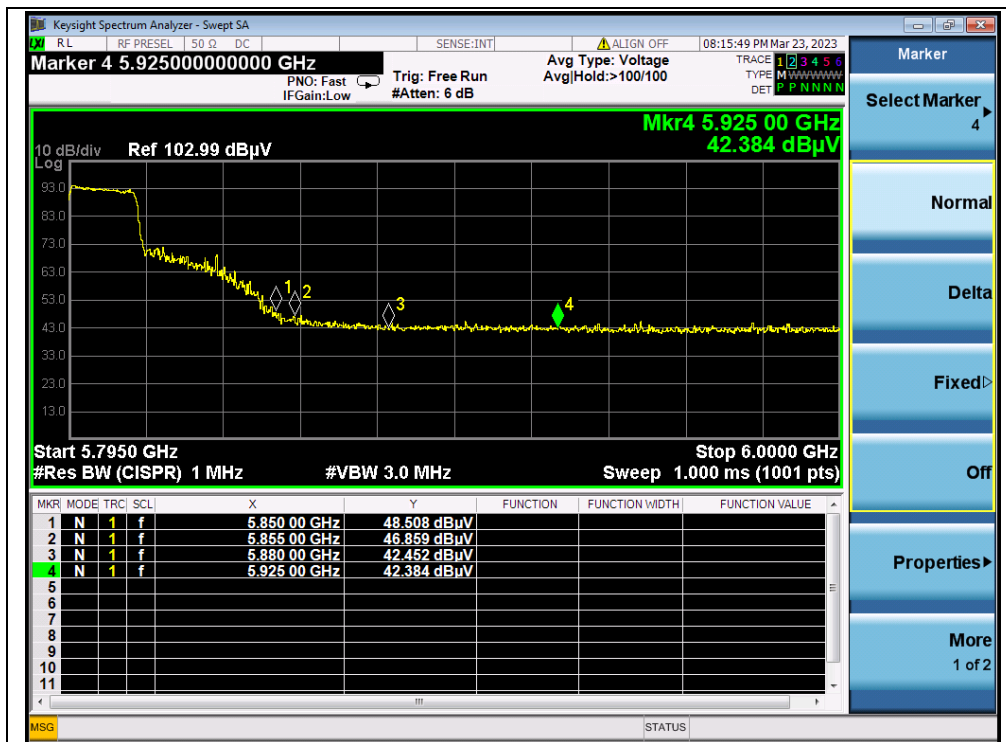
(AVERAGE, Channel 102, 802.11n (HT40))



(PEAK, Channel 134, 802.11n (HT40))



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

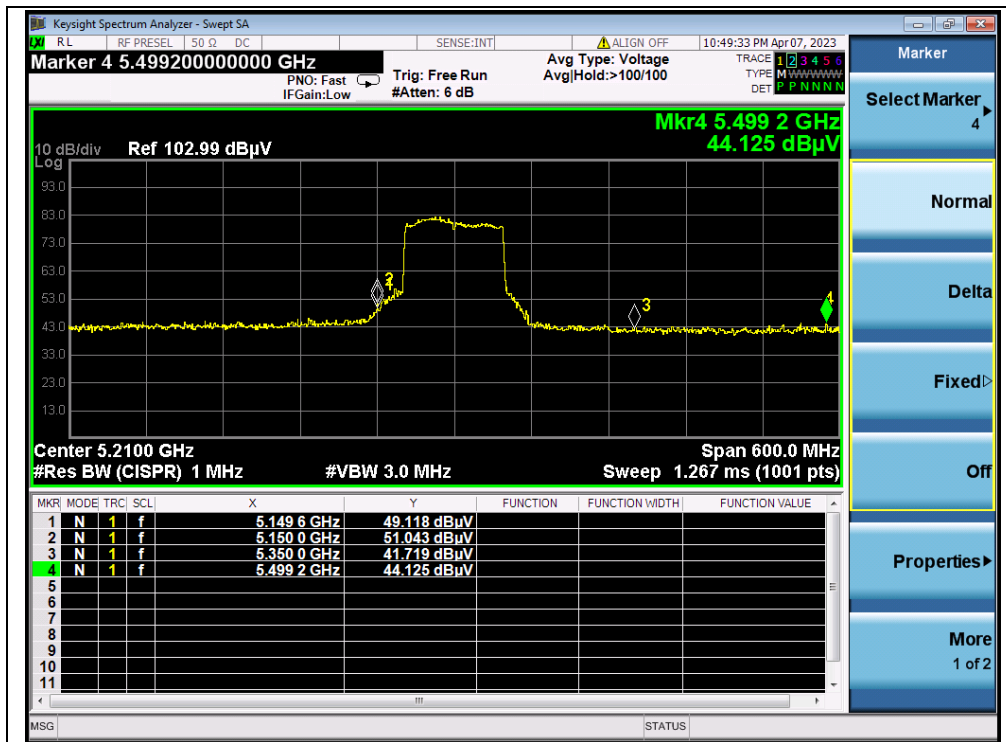


(PEAK, Channel 159, 802.11n (HT40))

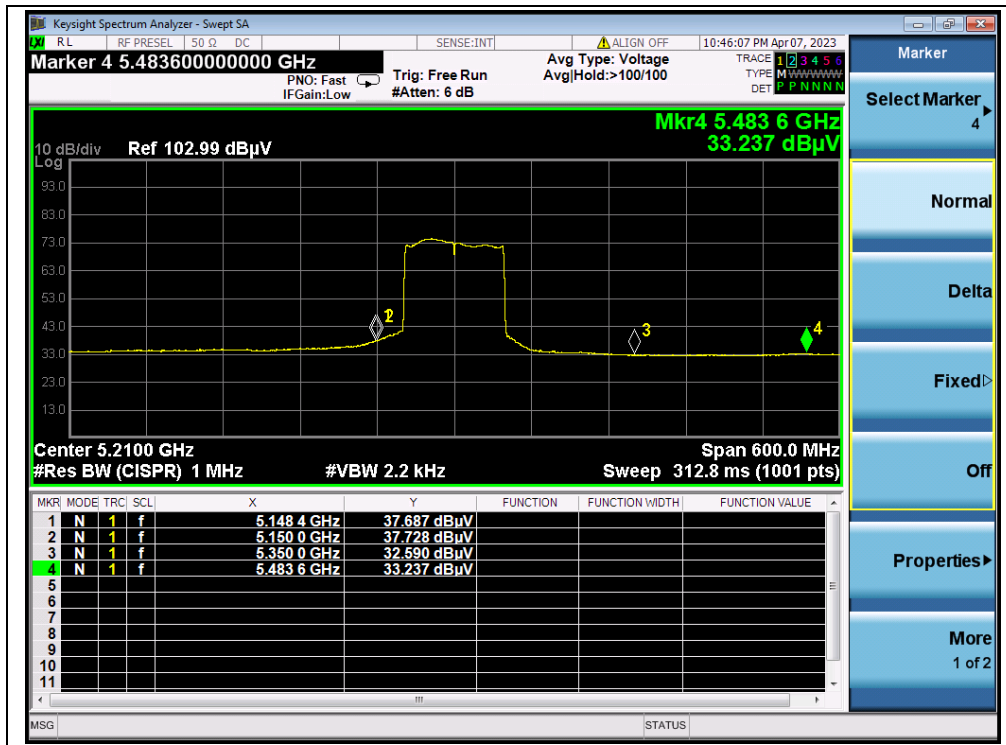


802.11ac (VHT80) Mode

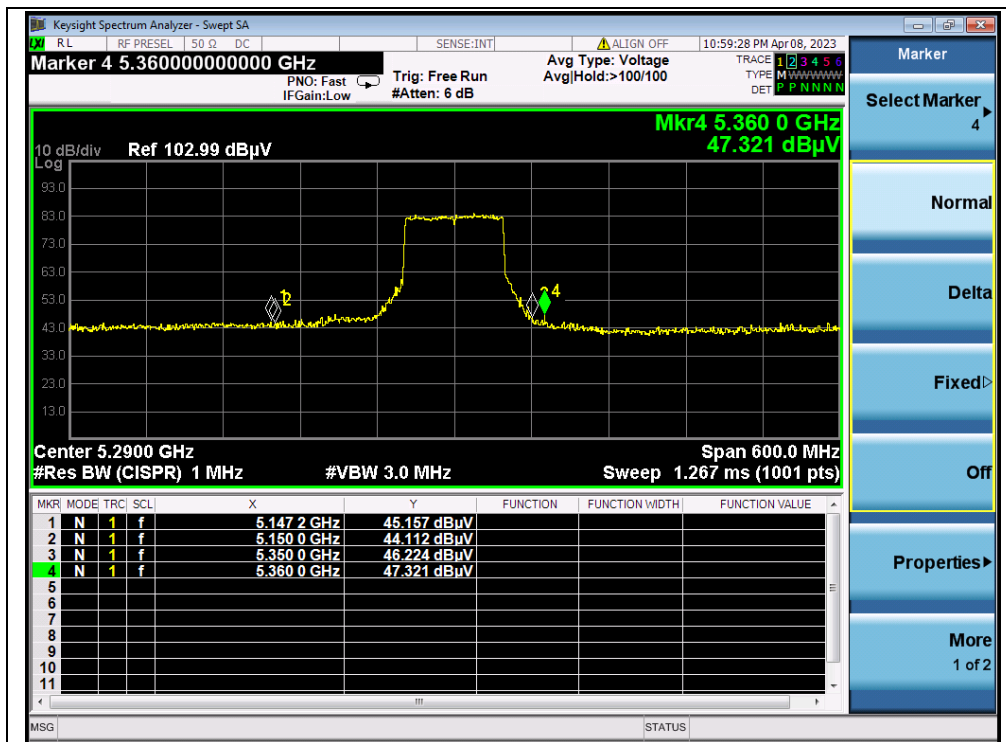
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
42	5150.00	PK	51.04	-19.54	32.20	63.70	74	PASS
42	5150.00	AV	37.73	-19.54	32.20	50.39	54	PASS
58	5360.00	PK	47.32	-18.80	32.20	60.72	74	PASS
58	5350.00	AV	36.49	-18.80	32.20	49.89	54	PASS
106	5467.49	PK	47.96	-19.20	32.20	60.96	68.23	PASS
106	5460.00	AV	37.54	-19.20	32.20	50.54	54	PASS
138	5737.70	PK	49.45	-19.20	32.20	62.45	68.23	PASS
155	5720.00	PK	68.29	-19.01	32.20	81.48	110.83	PASS
155	5850.00	PK	60.24	-19.01	32.20	73.43	122.23	PASS



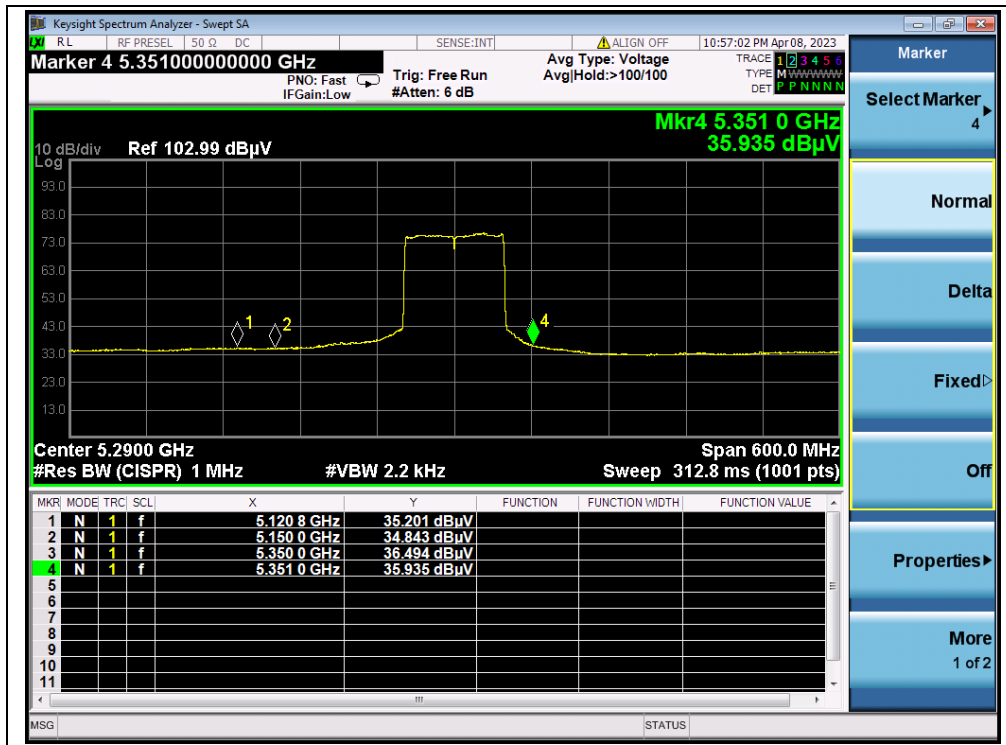
(PEAK, Channel 42, 802.11ac (VHT80))



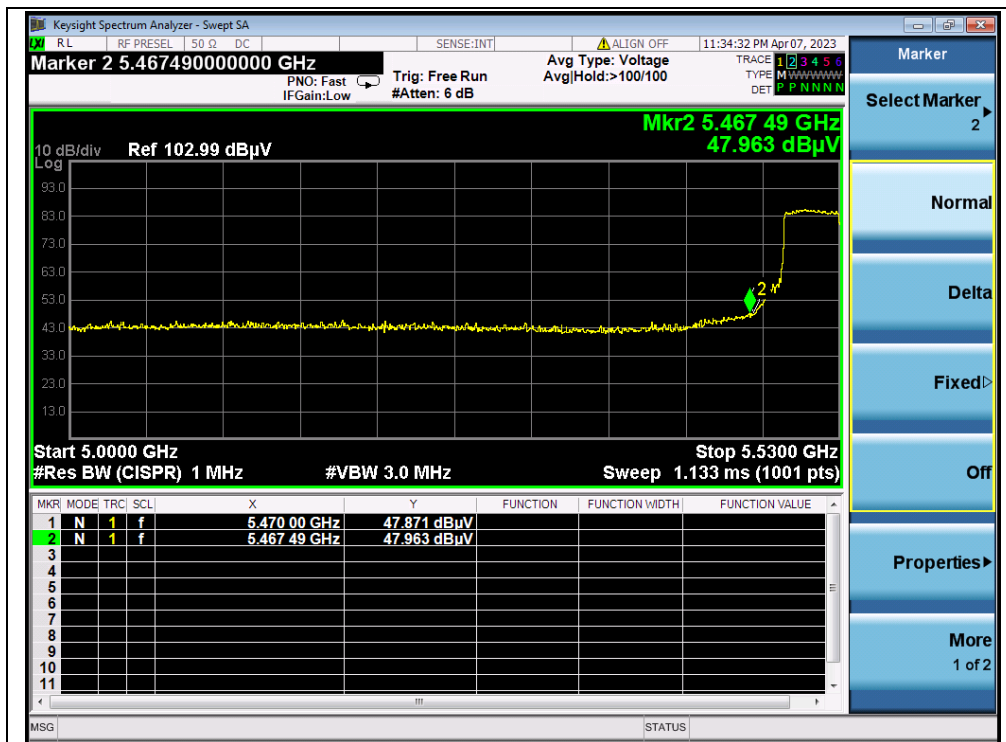
(AVERAGE, Channel 42, 802.11ac (VHT80))



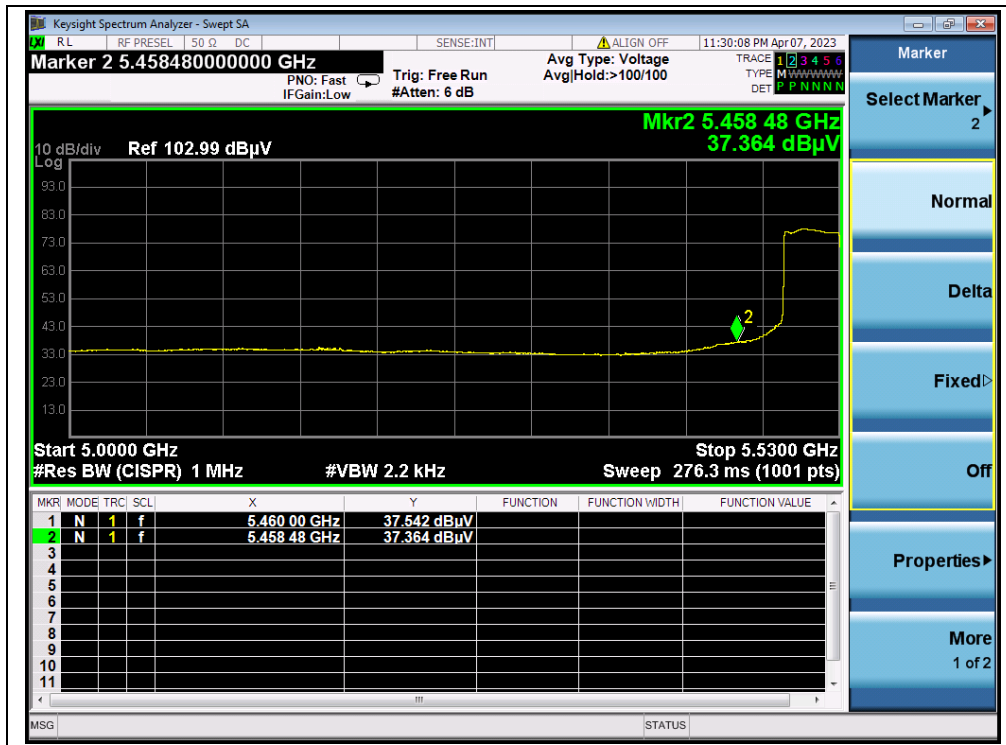
(PEAK, Channel 58, 802.11ac (VHT80))



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



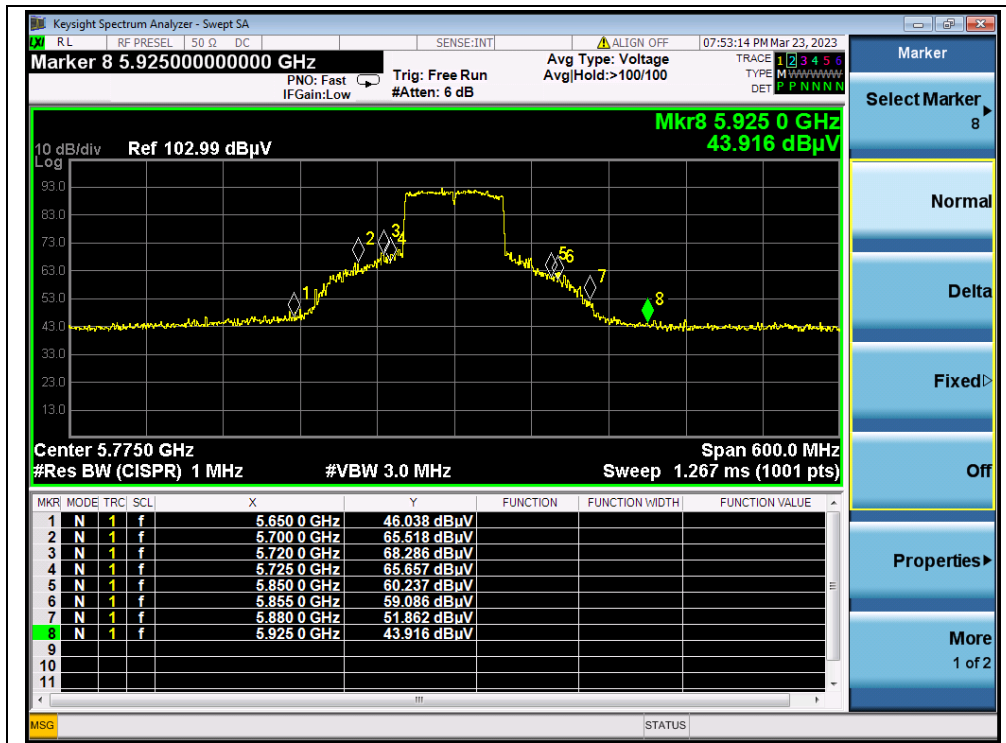
(PEAK, Channel 106, 802.11ac (VHT80))



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



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



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



A.9. Radiated Emission

According to ANSI C63.10, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak (or average) limit, it is unnecessary to perform an quasi-peak measurement (or average).

The measurement results are obtained as below:

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

A_T : Total correction Factor except Antenna

U_R : Receiver Reading

G_{preamp} : Preamplifier Gain

A_{Factor} : Antenna Factor at 3m

During the test, the total correction Factor A_T and A_{Factor} were built in test software.

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

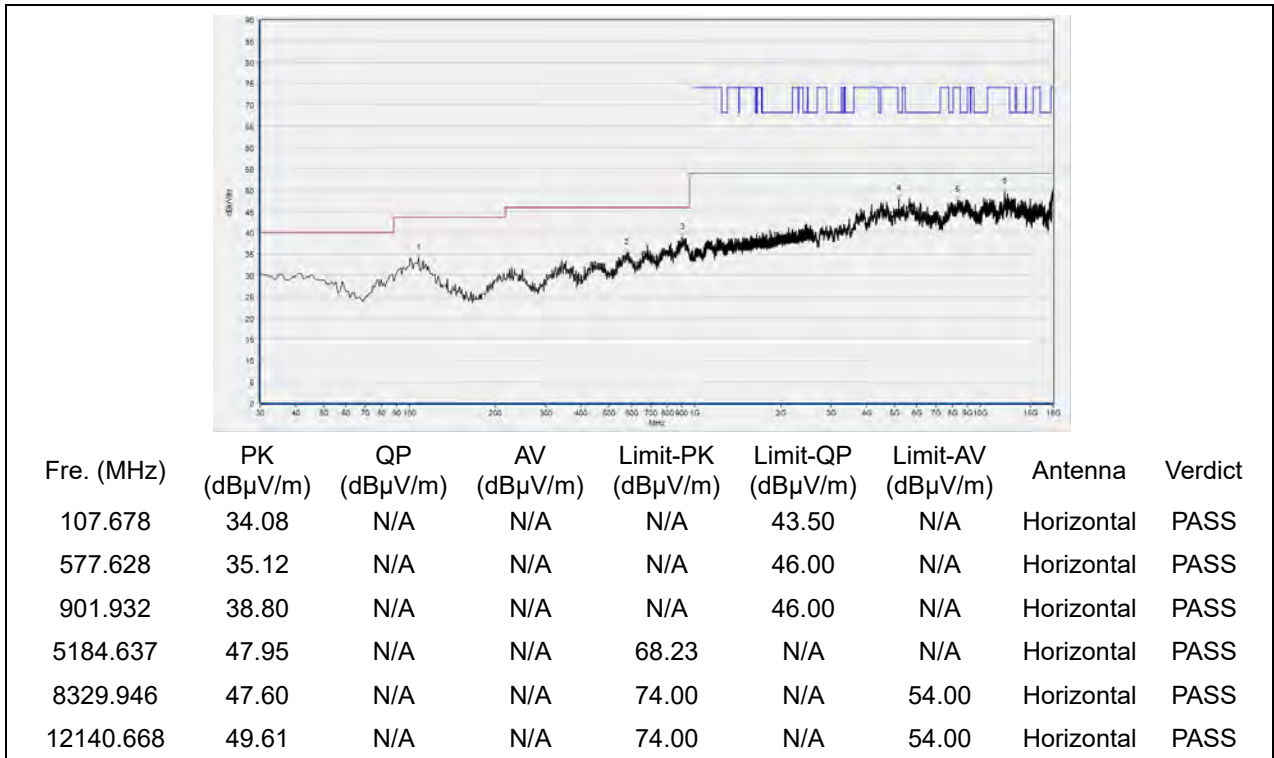
Note2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

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

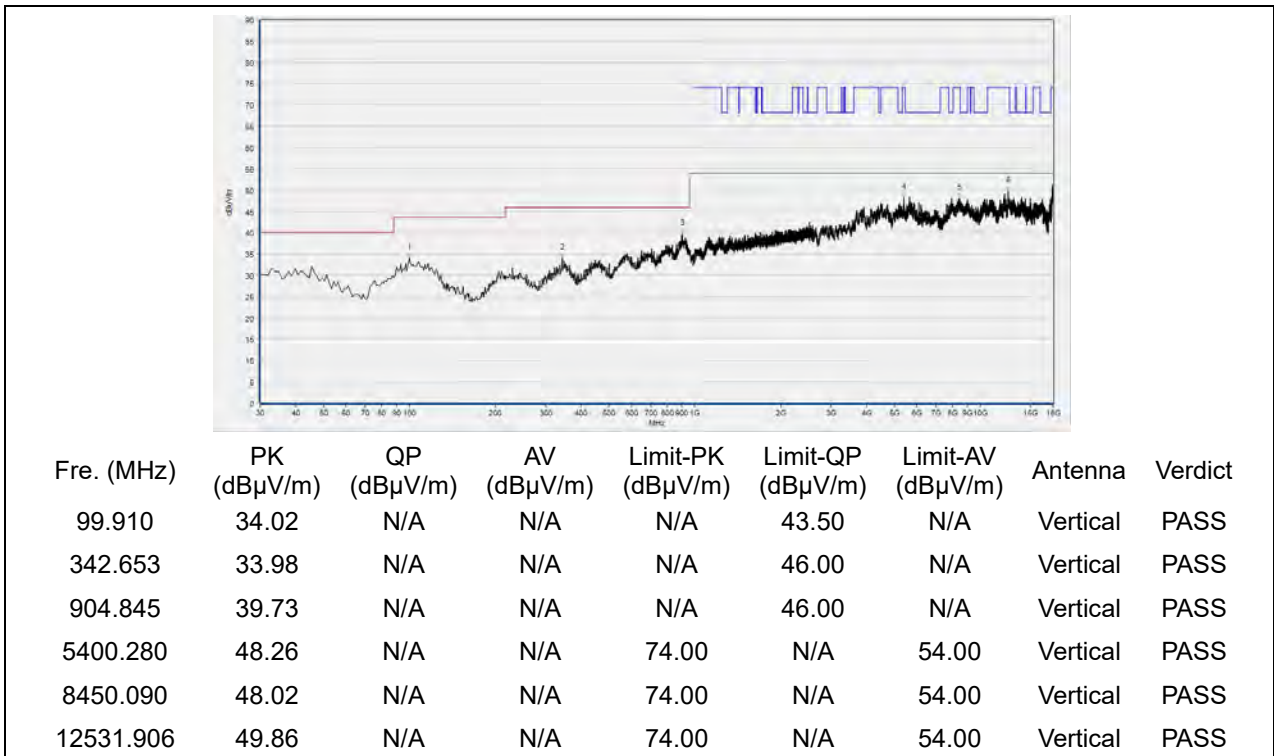
Note 4: All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.

802.11a Mode

Plot for Channel 36

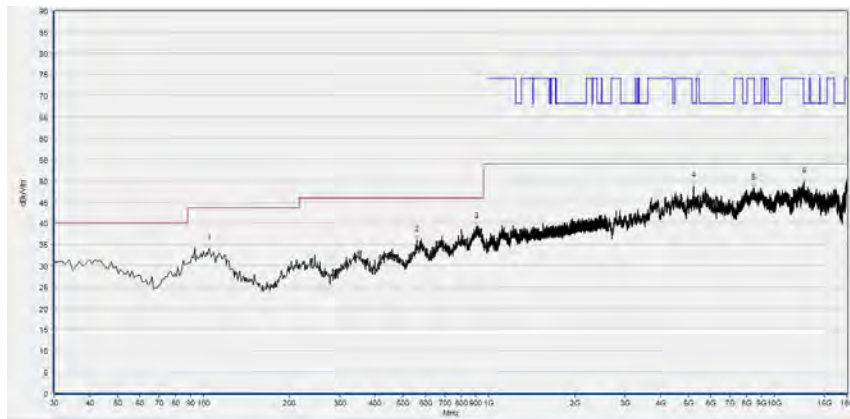


(Antenna Horizontal, 30MHz to 18GHz)



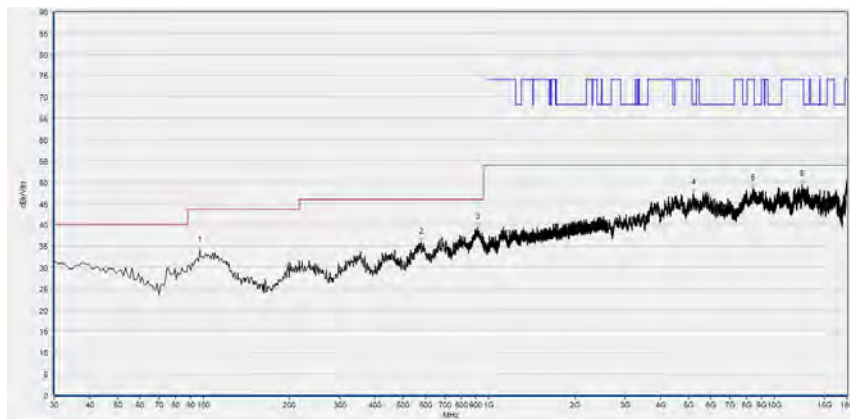
(Antenna Vertical, 30MHz to 18GHz)

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
104.765	34.01	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
562.092	36.05	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
906.787	39.16	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5212.362	48.71	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8477.816	48.28	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12738.308	49.86	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

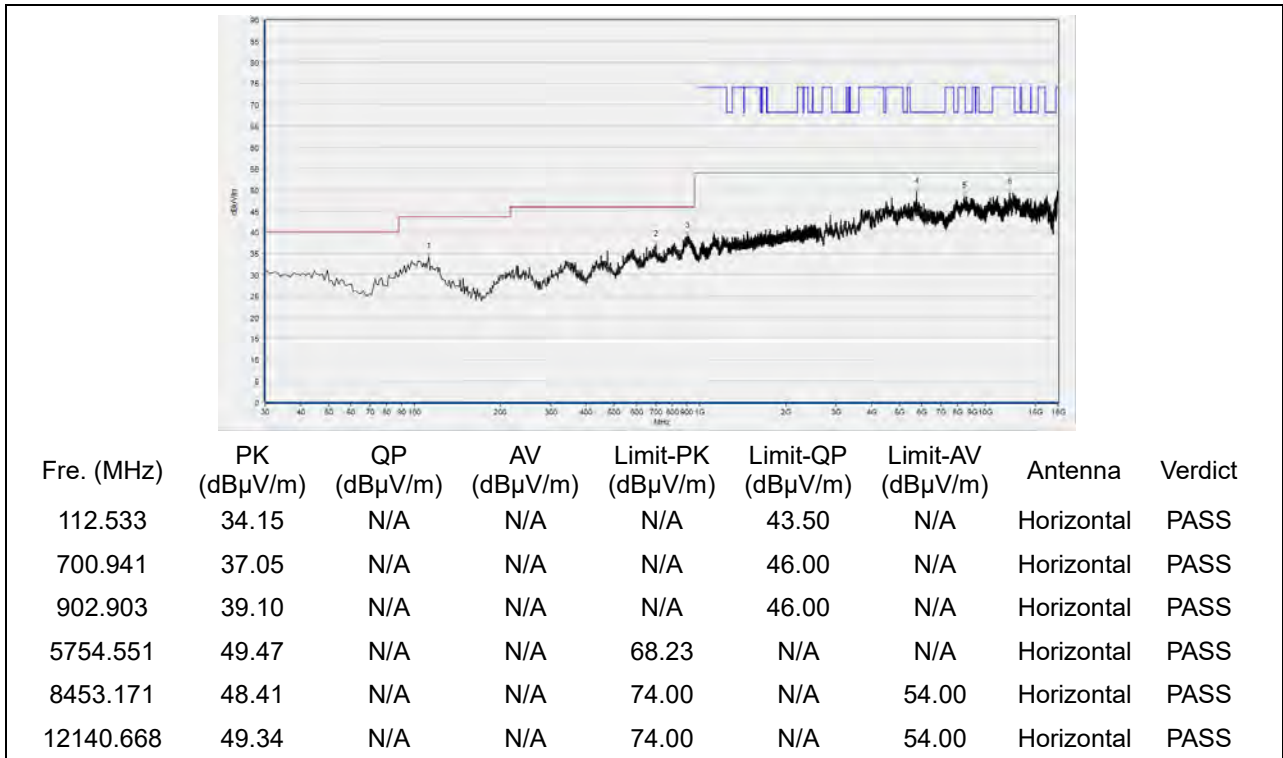
(Antenna Horizontal, 30MHz to 18GHz)



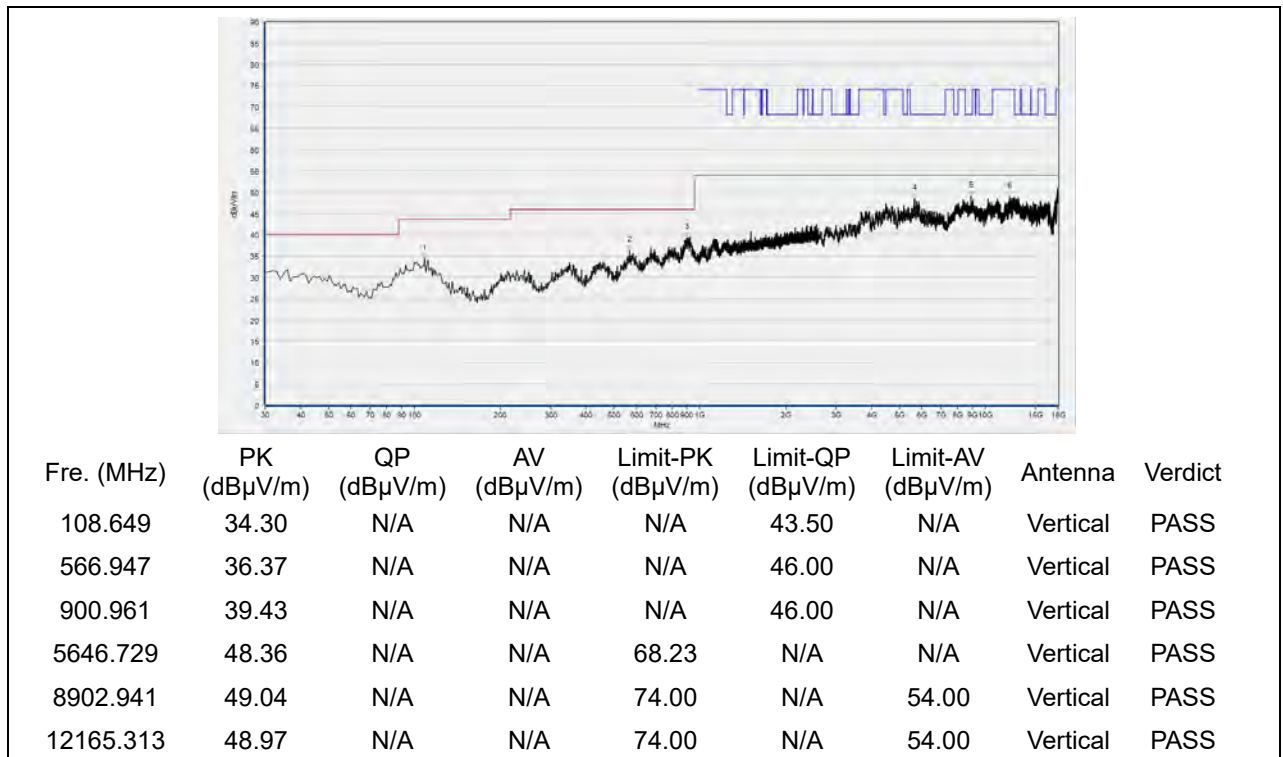
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
96.997	33.81	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
578.599	35.94	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
912.613	39.37	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5212.362	47.49	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8403.881	48.37	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12501.100	49.43	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 48

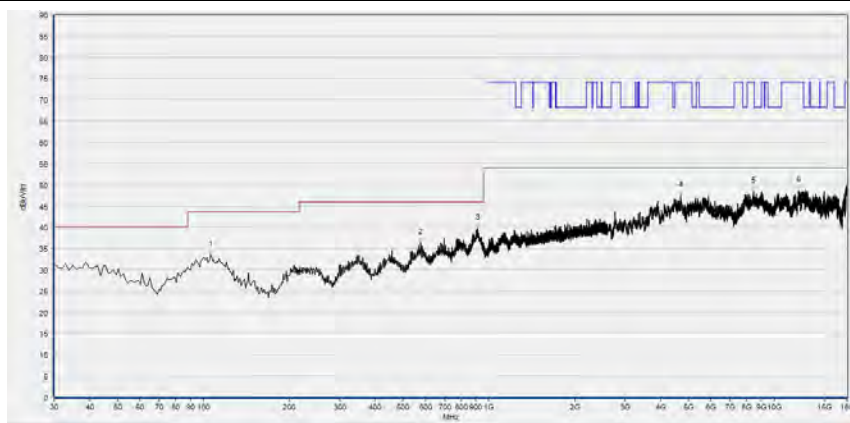


(Antenna Horizontal, 30MHz to 18GHz)



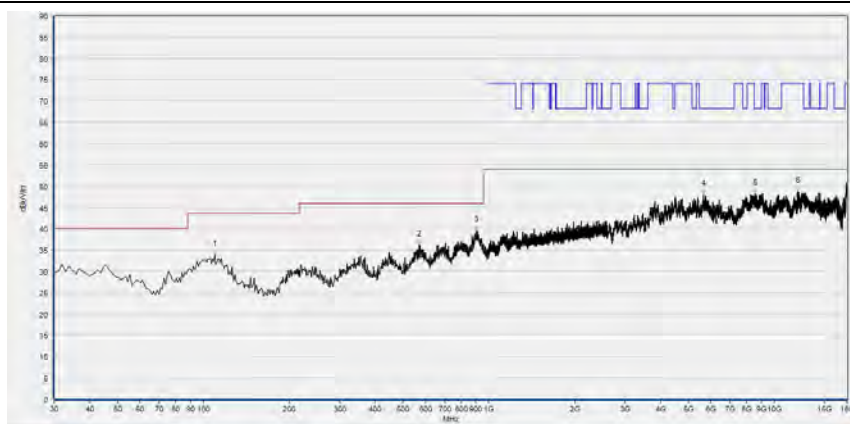
(Antenna Vertical, 30MHz to 18GHz)

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
105.736	33.55	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
576.657	36.40	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
915.526	39.70	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
4710.222	47.44	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8450.090	48.38	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12152.991	48.55	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

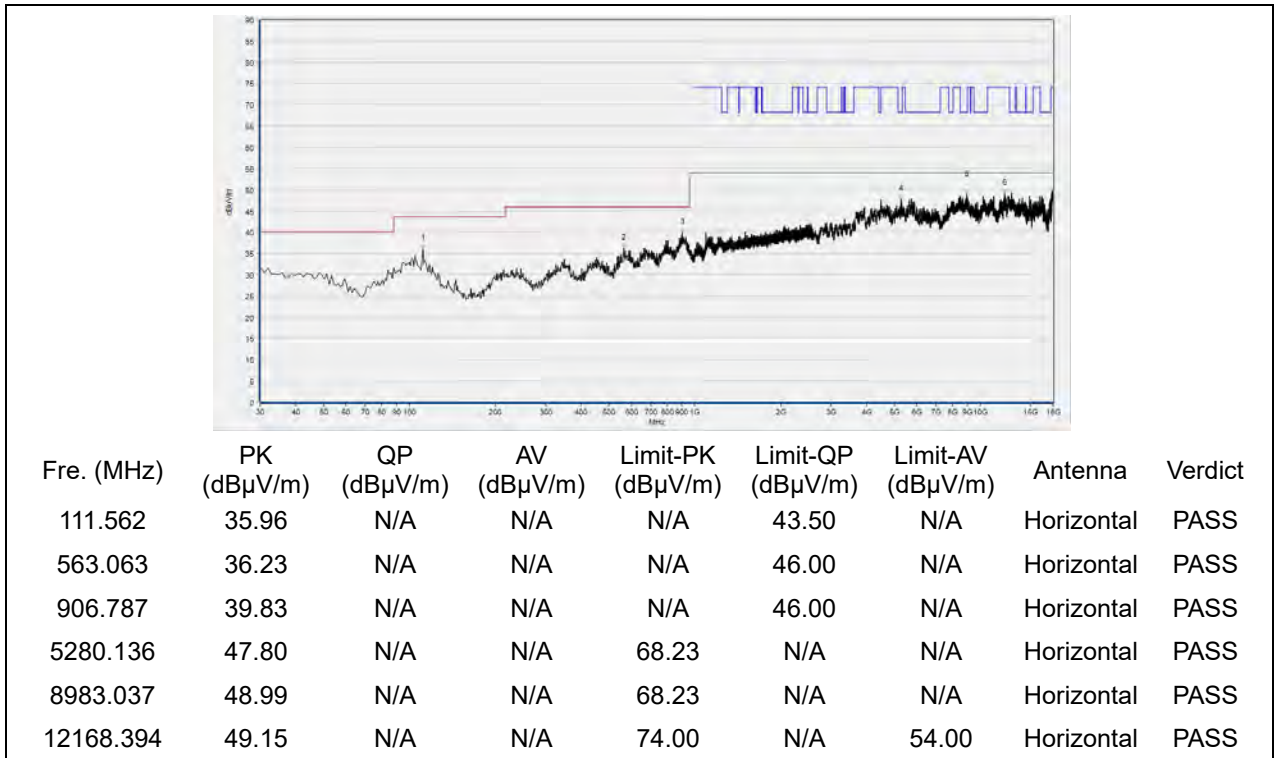
(Antenna Horizontal, 30MHz to 18GHz)



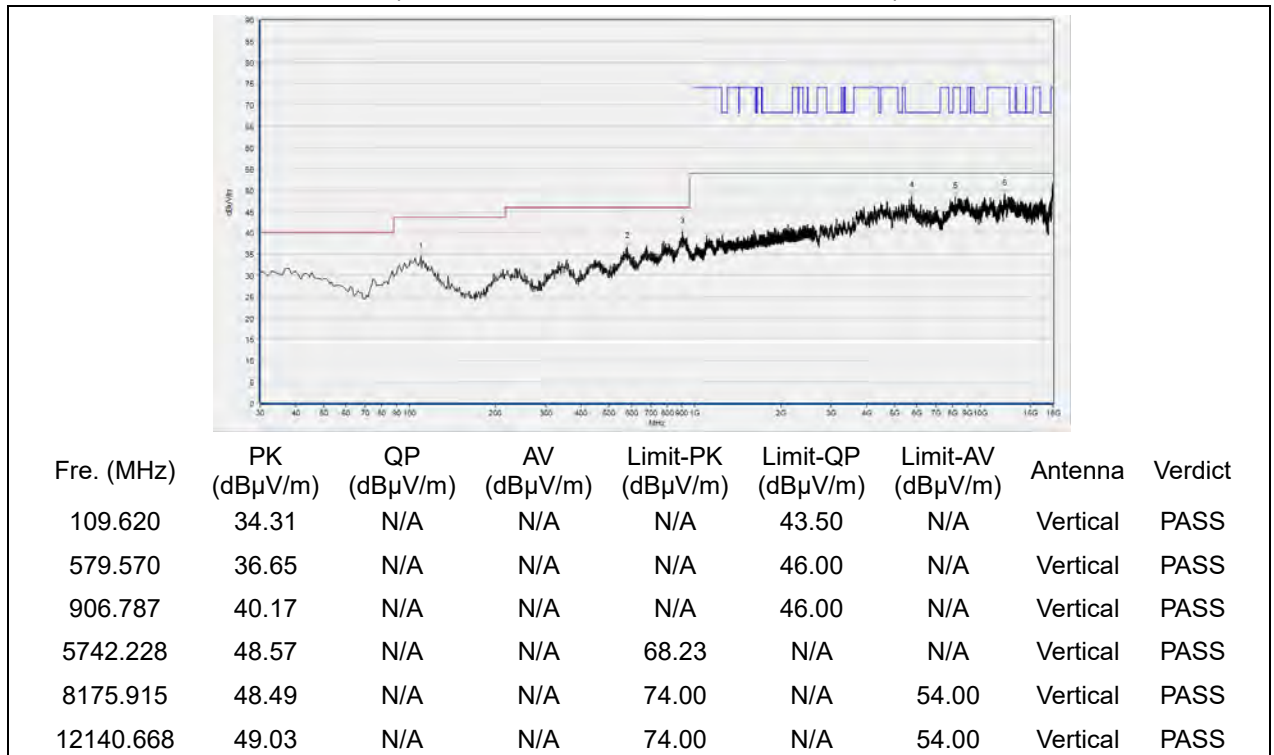
Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
109.620	33.86	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
570.831	36.12	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
905.816	39.59	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5649.810	48.08	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8582.557	48.33	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12125.265	48.77	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 60

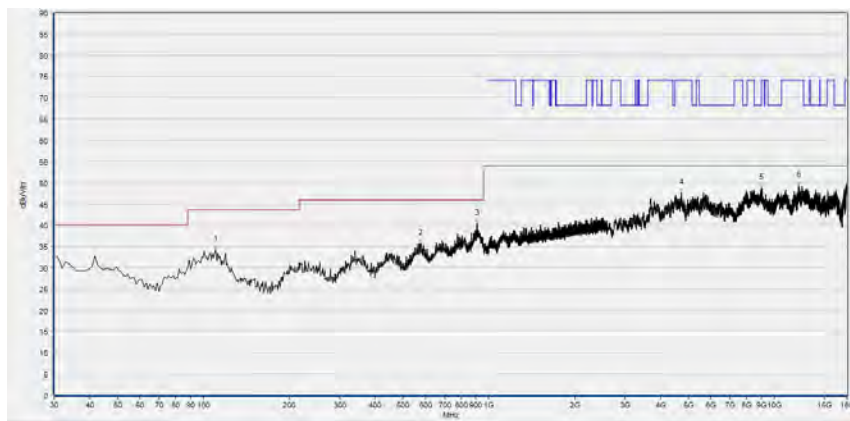


(Antenna Horizontal, 30MHz to 18GHz)



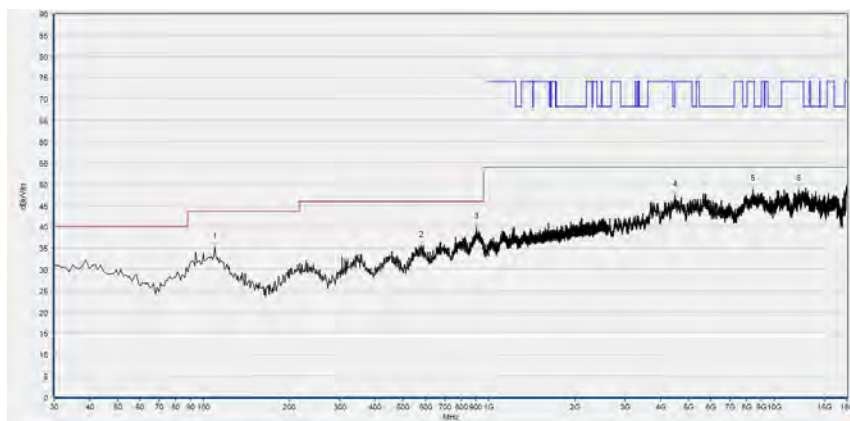
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 64



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
110.591	34.11	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
575.686	35.63	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
911.642	40.31	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
4722.545	47.54	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8992.278	48.70	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12146.829	49.28	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

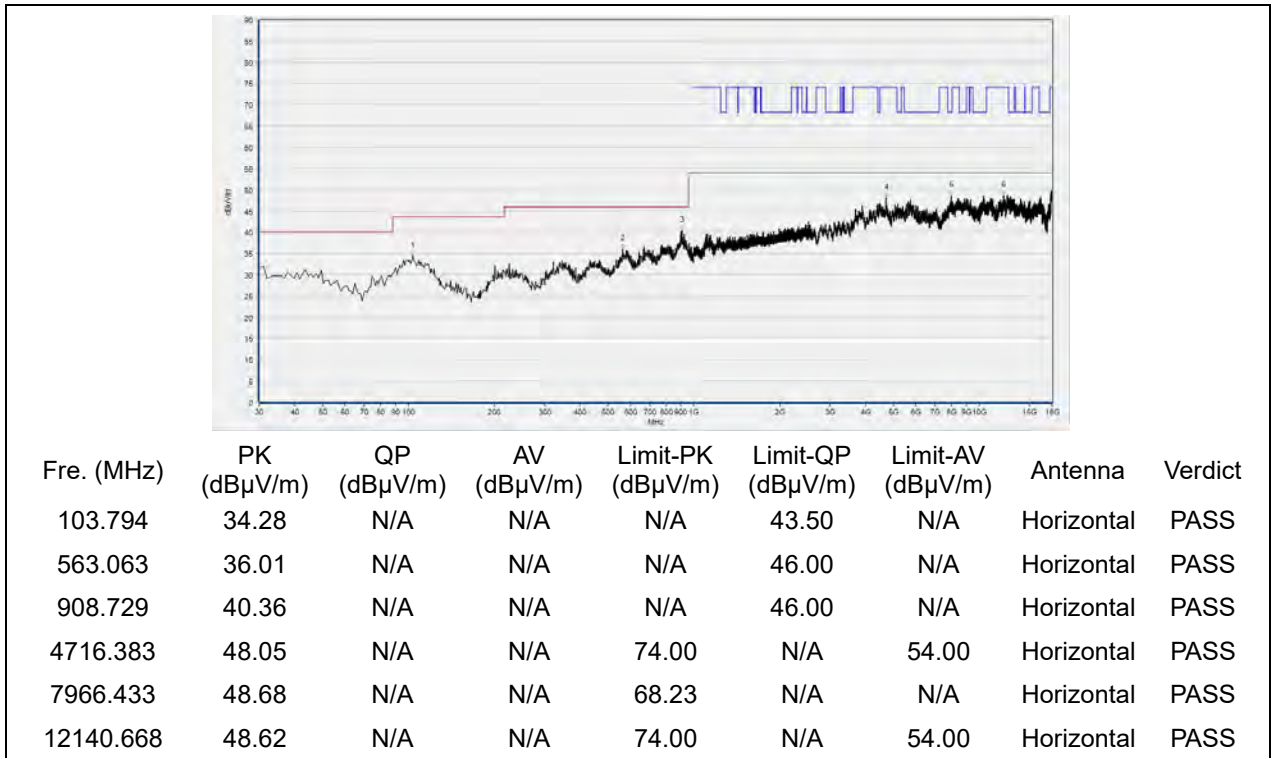
(Antenna Horizontal, 30MHz to 18GHz)



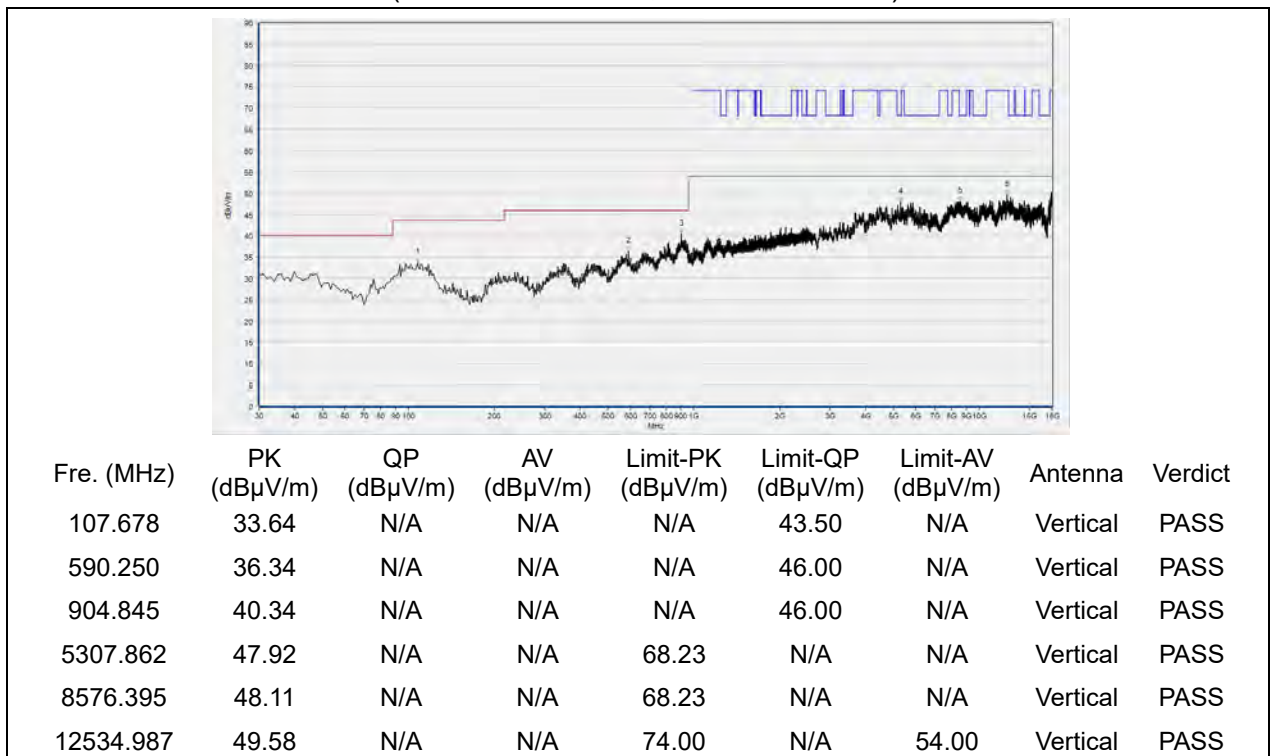
Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
109.620	35.20	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
580.541	35.46	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
904.845	39.85	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
4479.176	47.46	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8419.284	48.78	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12186.877	48.71	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 100

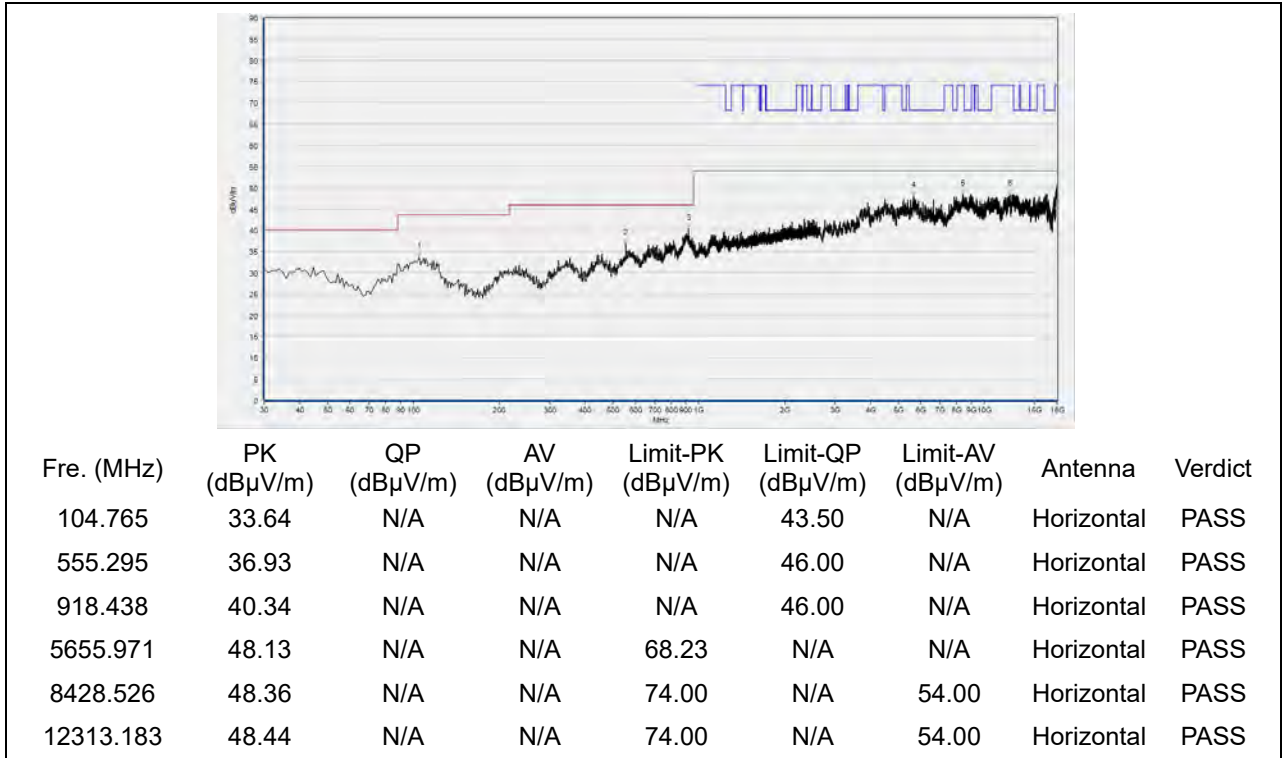


(Antenna Horizontal, 30MHz to 18GHz)

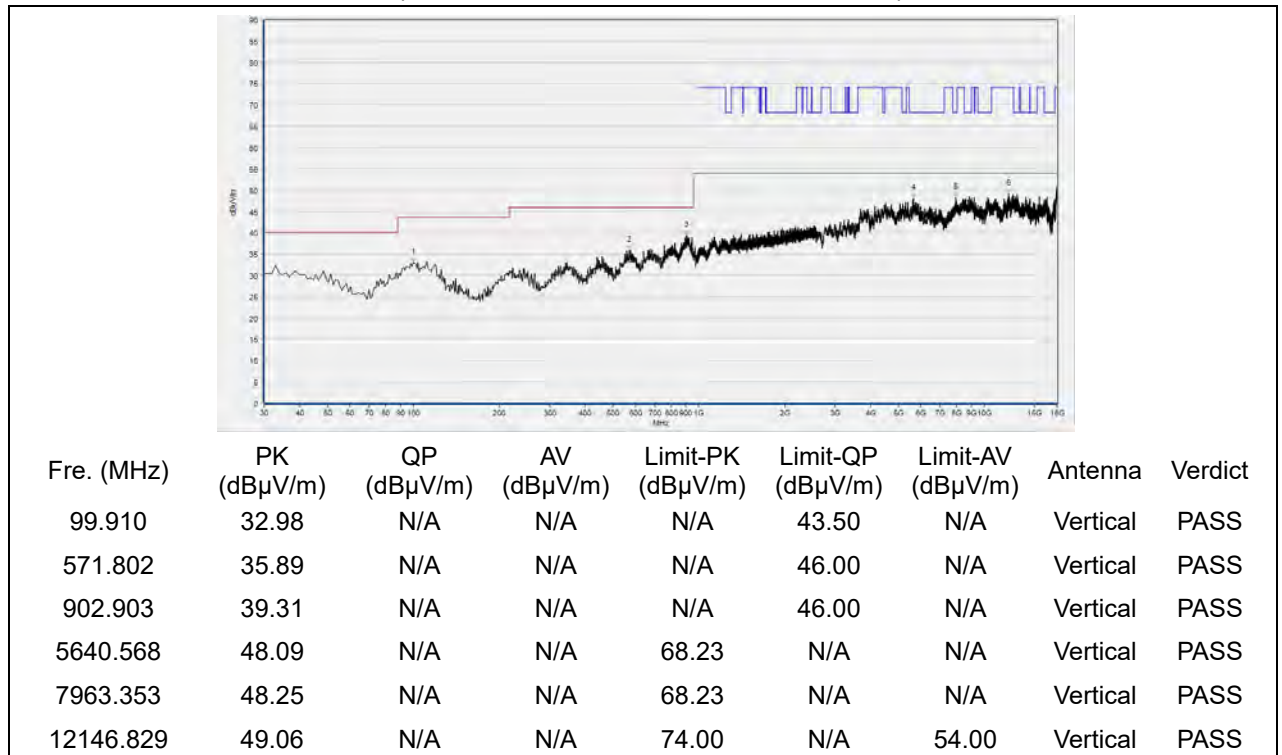


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 120

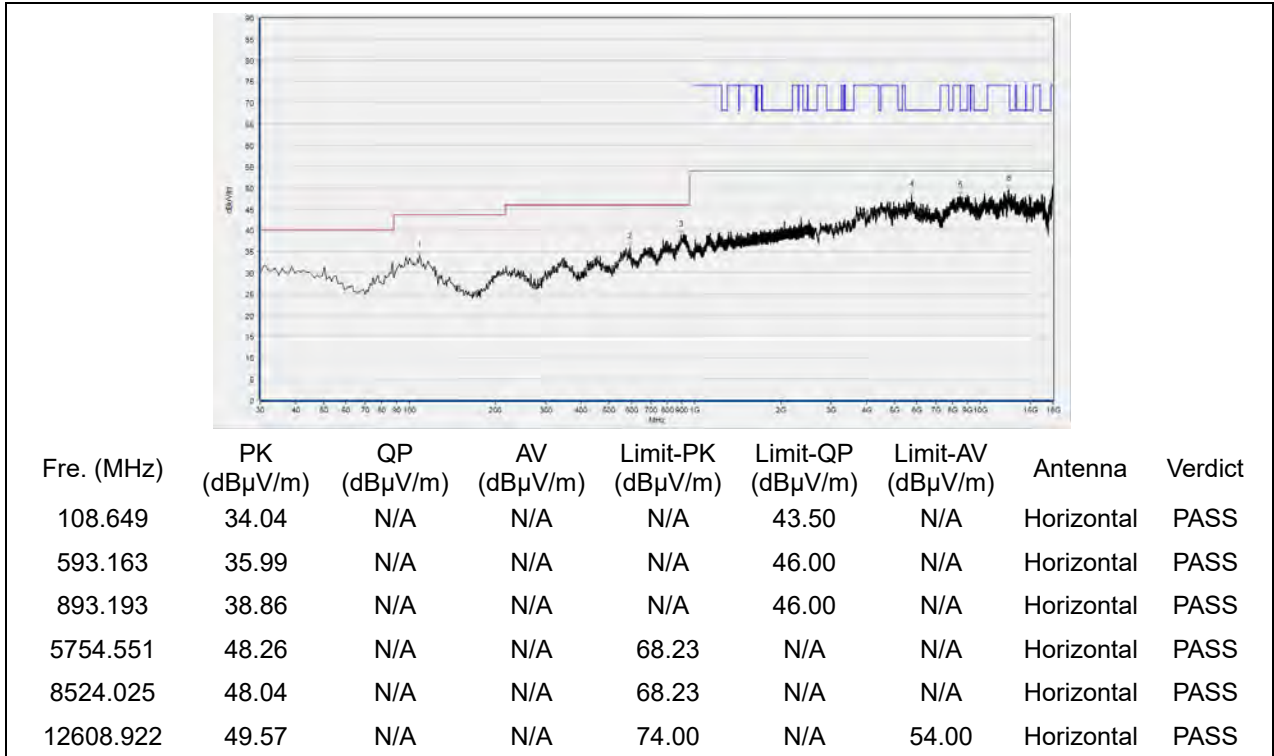


(Antenna Horizontal, 30MHz to 18GHz)

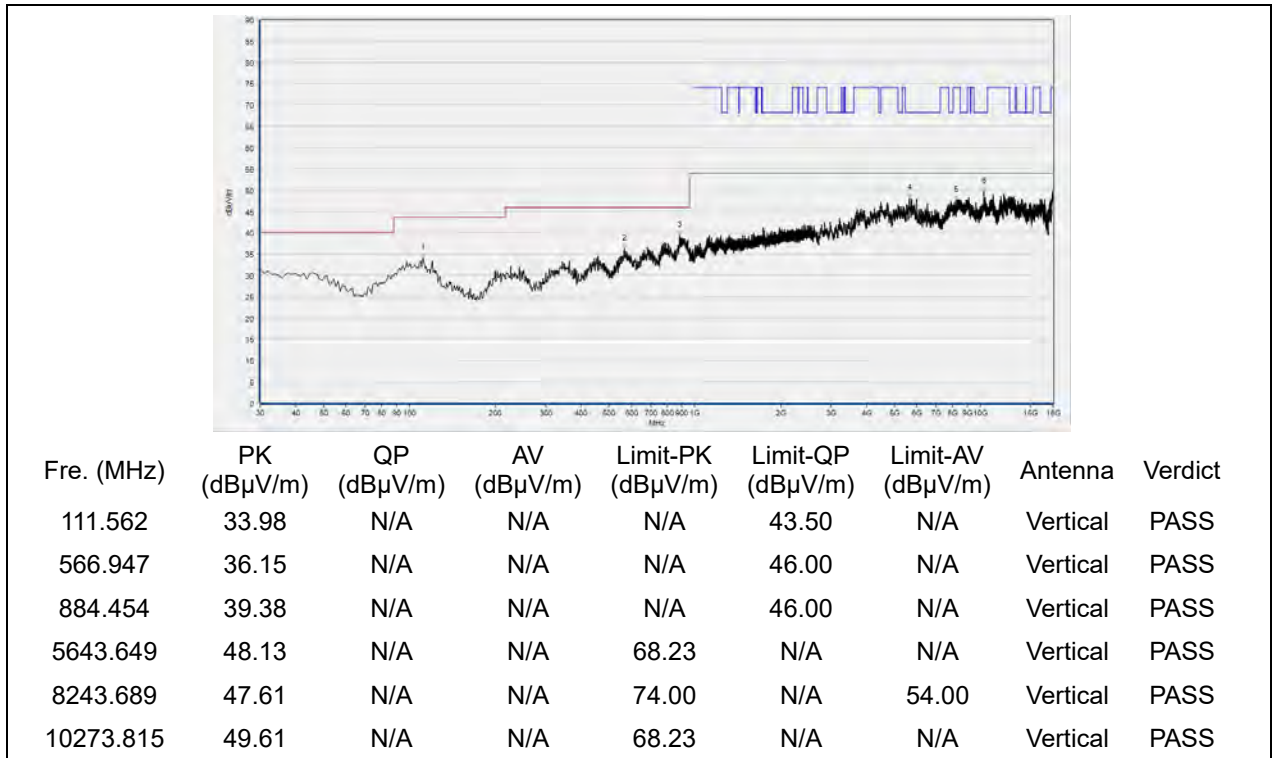


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 140

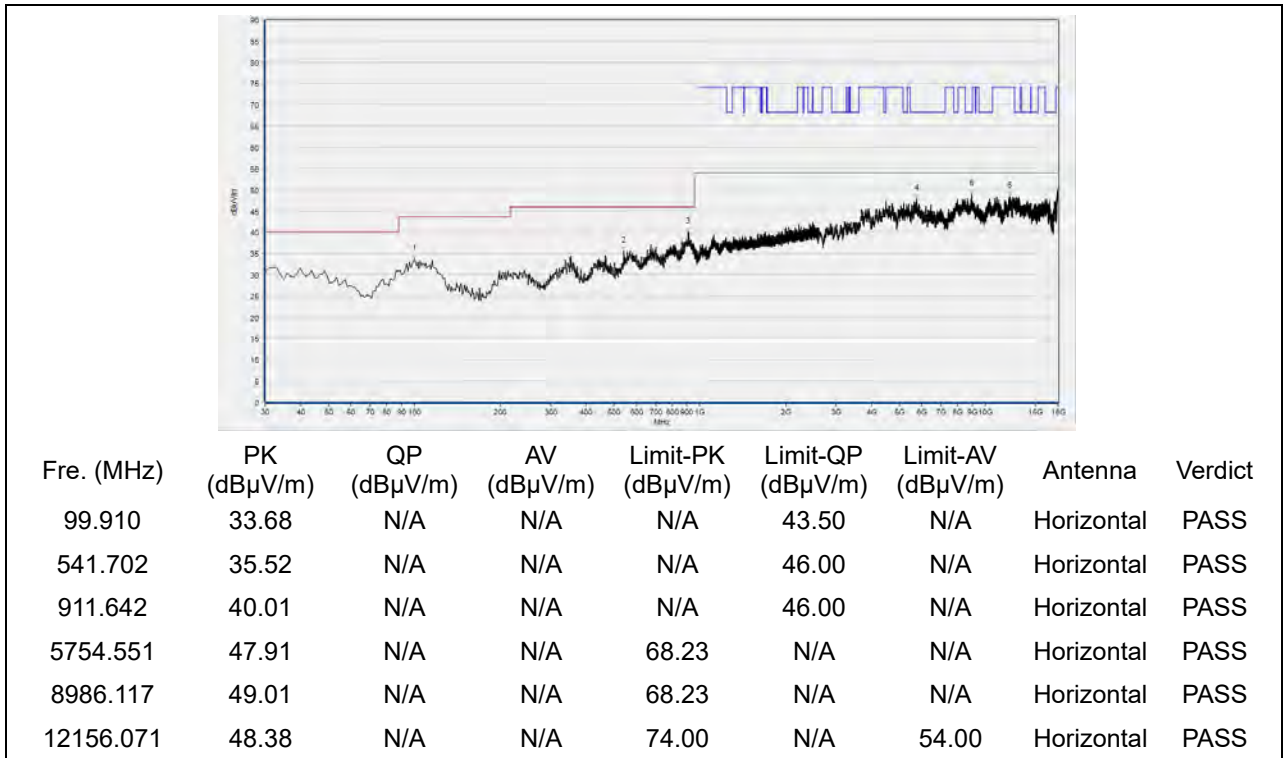


(Antenna Horizontal, 30MHz to 18GHz)

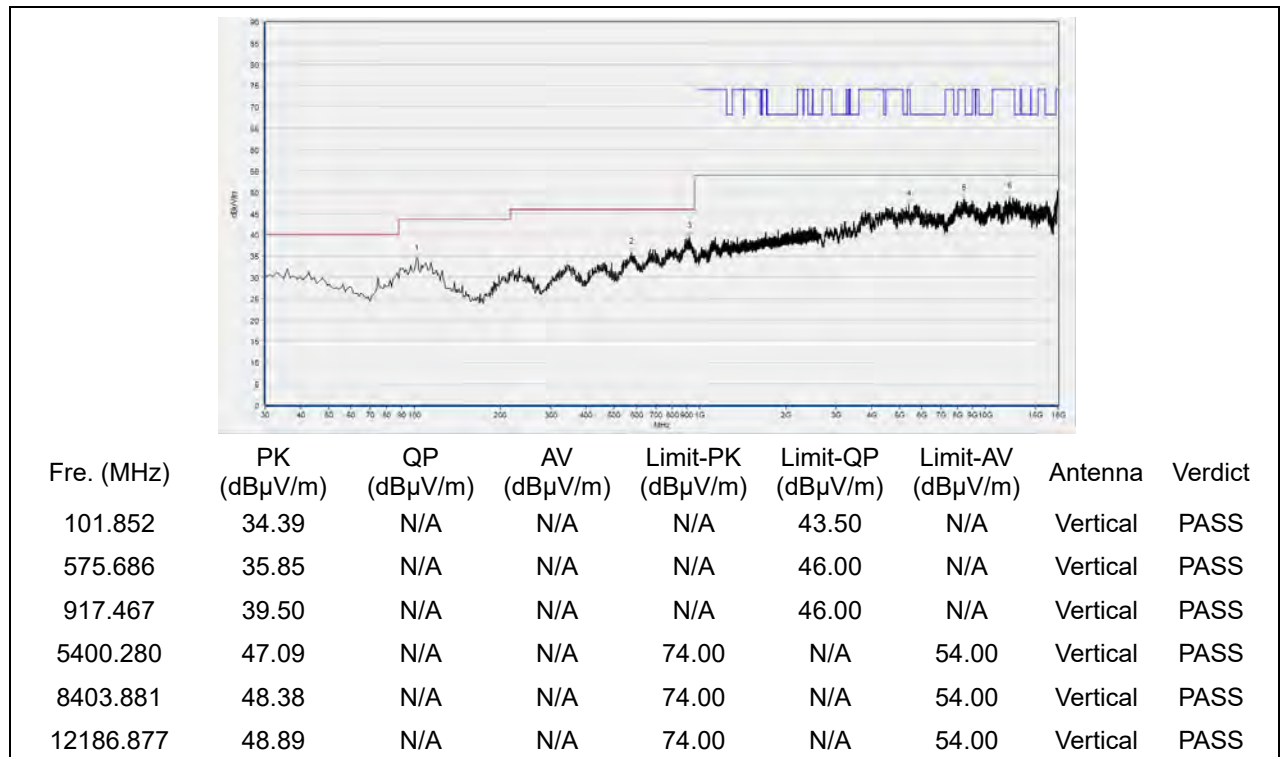


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 149

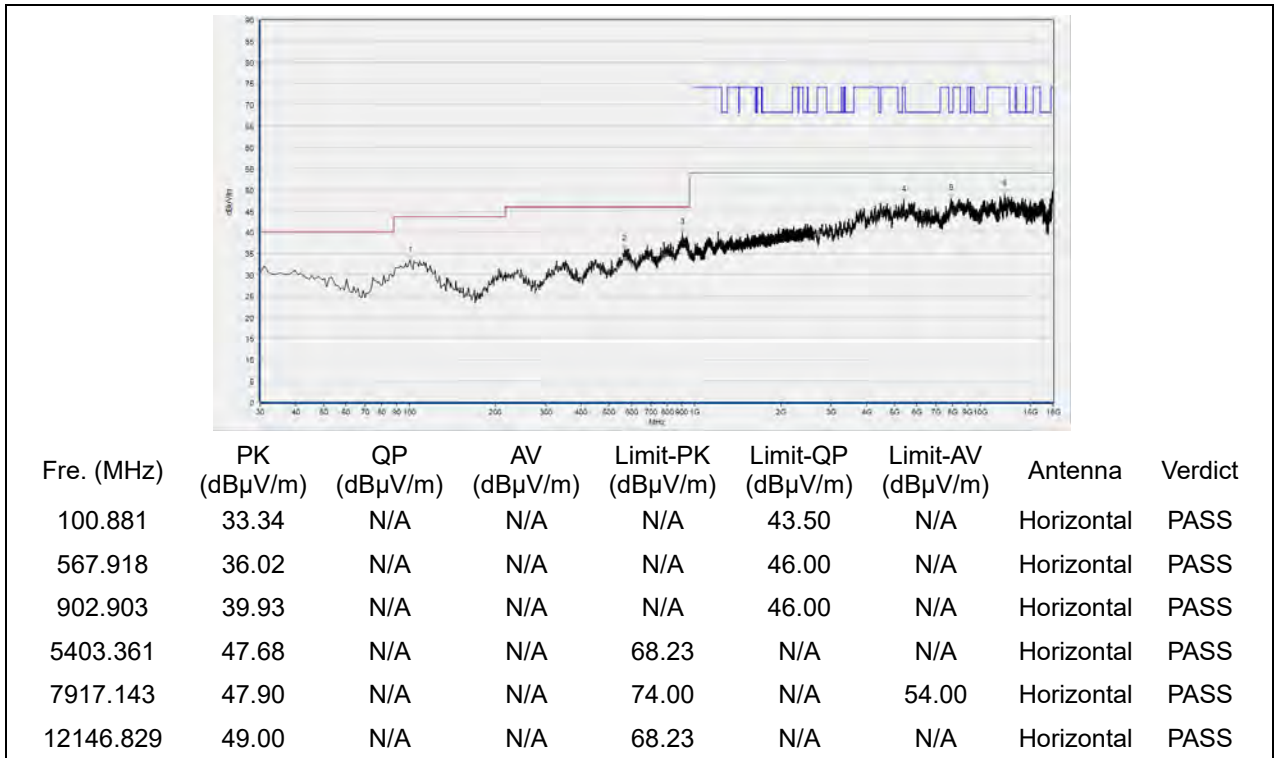


(Antenna Horizontal, 30MHz to 18GHz)

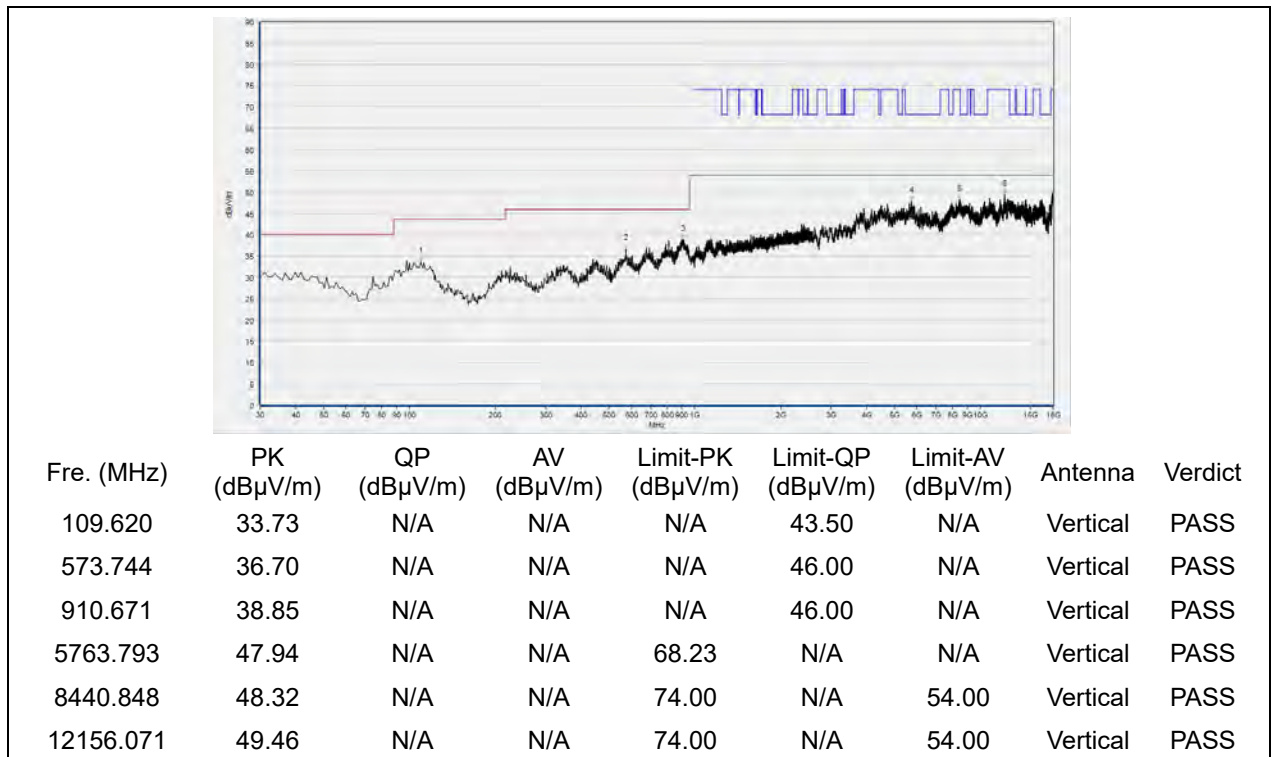


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 157

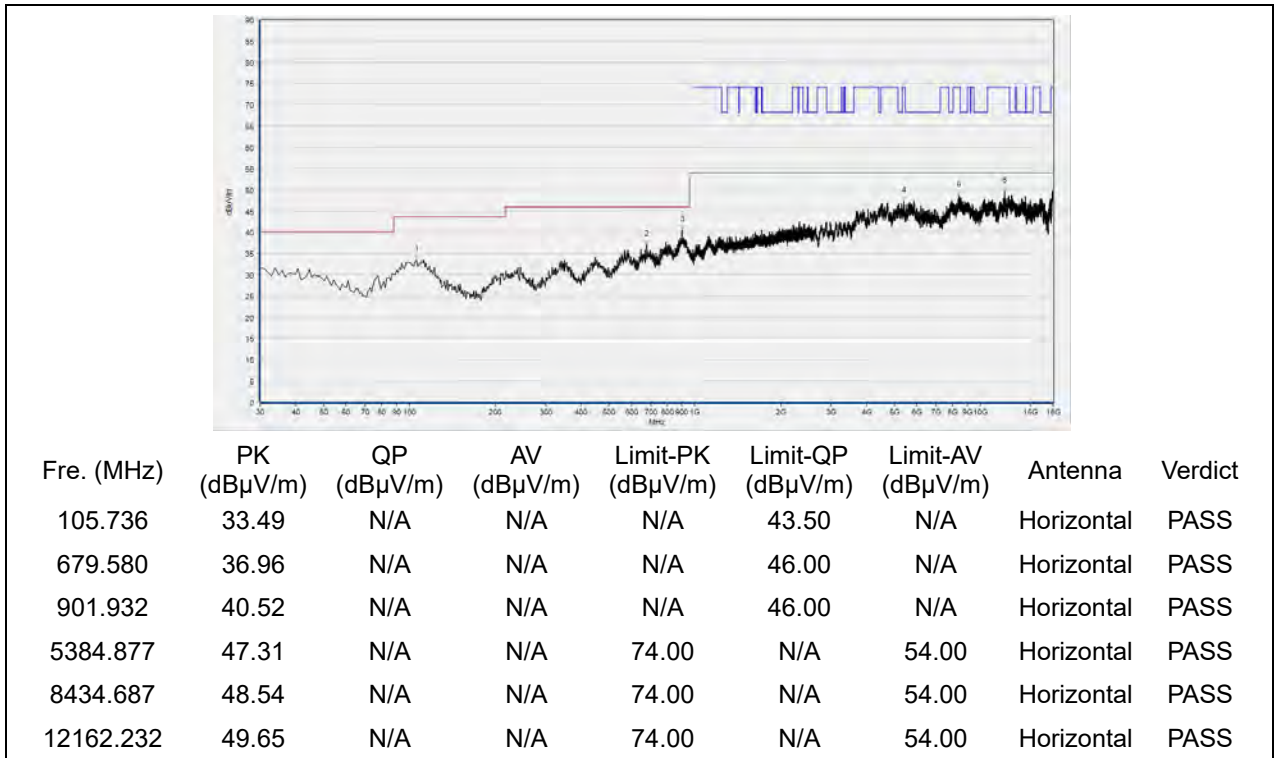


(Antenna Horizontal, 30MHz to 18GHz)

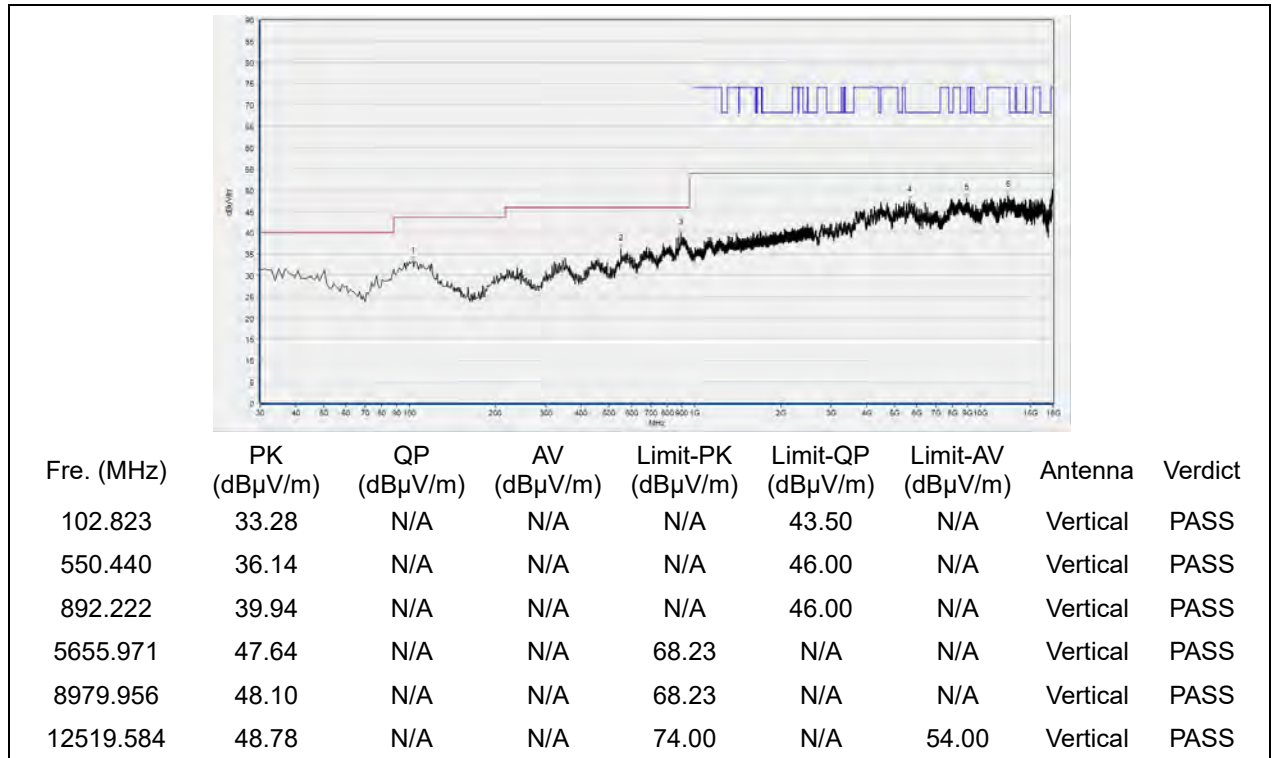


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 165



(Antenna Horizontal, 30MHz to 18GHz)

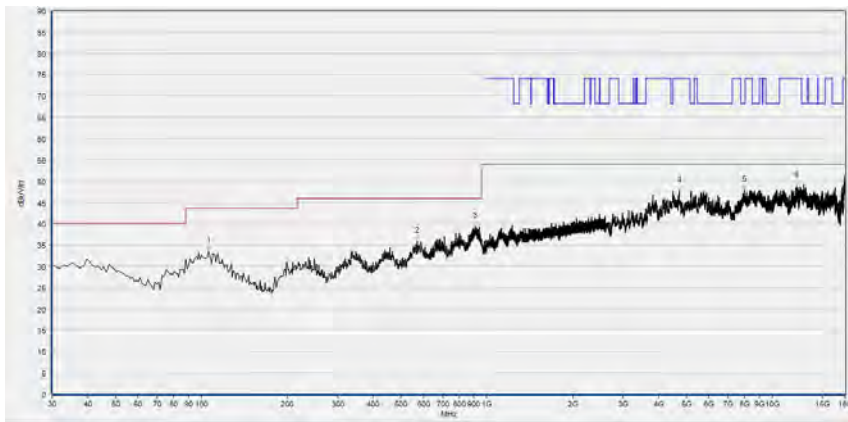


(Antenna Vertical, 30MHz to 18GHz)



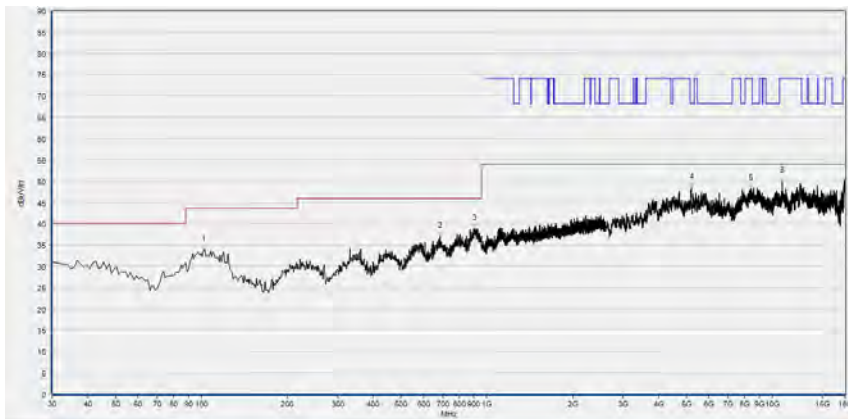
802.11n (HT40) mode

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
105.736	33.57	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
569.860	35.91	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
909.700	39.47	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
4722.545	47.76	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7972.595	47.85	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12146.829	48.93	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

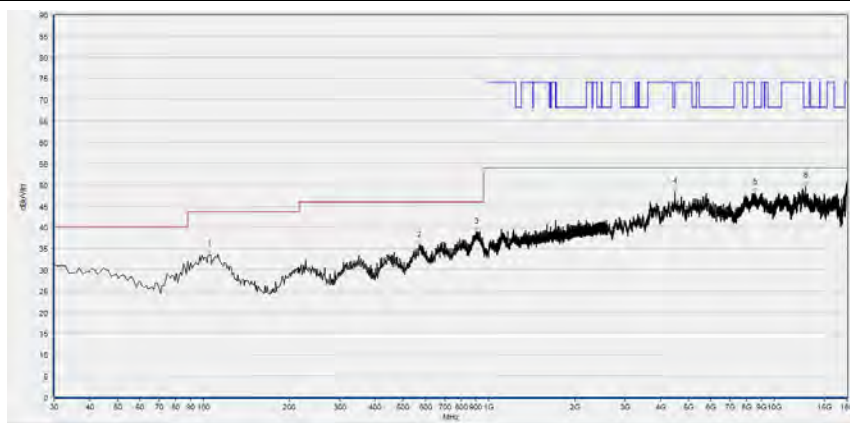
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
101.852	33.84	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
685.405	37.00	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
904.845	38.95	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5200.040	48.47	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8431.606	48.20	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10816.003	49.94	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

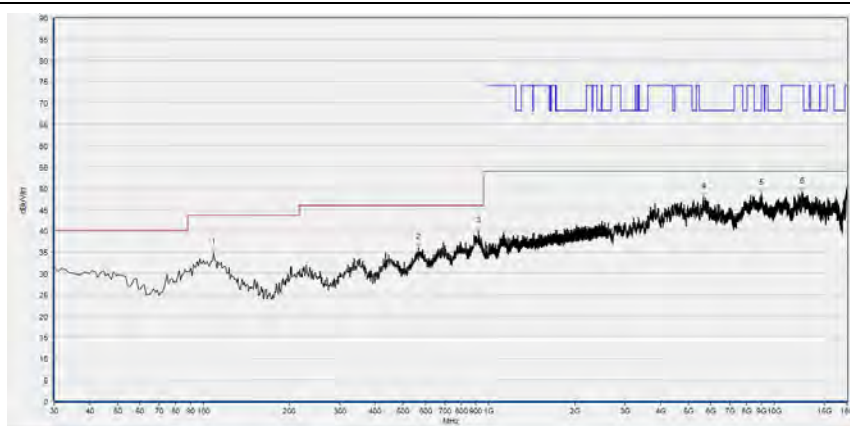
(Antenna Vertical, 30MHz to 18GHz)

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
104.765	33.44	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
569.860	35.62	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
902.903	38.83	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
4485.337	48.34	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8576.395	48.08	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12898.500	49.56	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

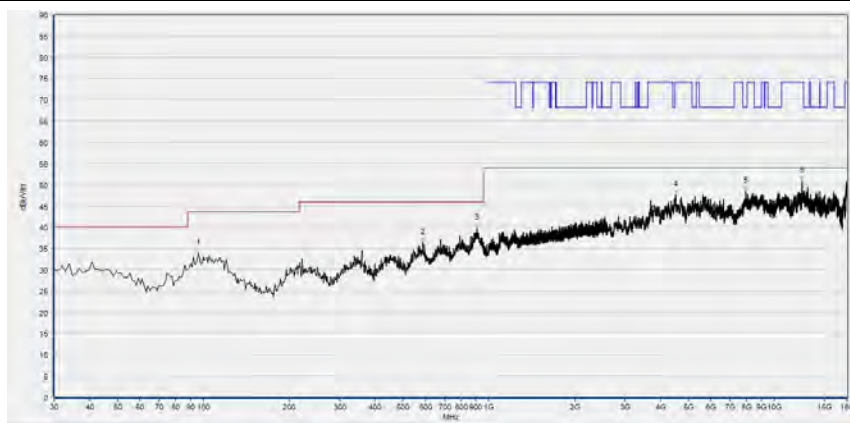
(Antenna Horizontal, 30MHz to 18GHz)



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	34.84	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
565.976	36.00	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
921.351	39.90	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5652.891	48.01	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8995.359	48.80	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12494.939	49.09	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

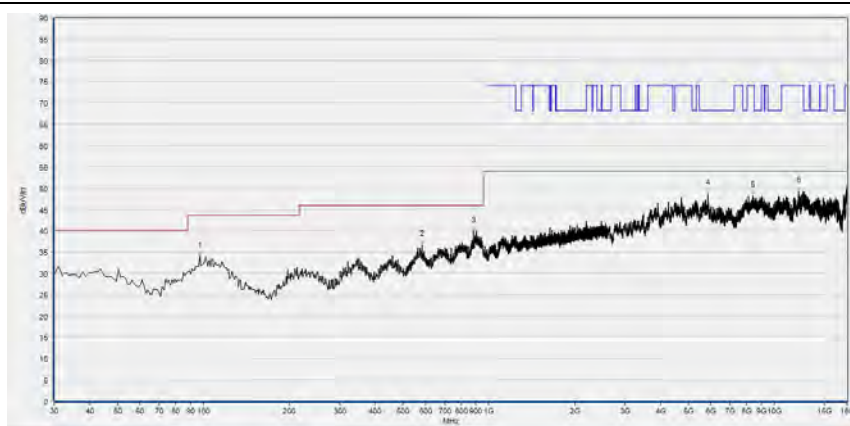
(Antenna Vertical, 30MHz to 18GHz)

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
96.026	33.79	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
587.337	36.40	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
907.758	39.70	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
4522.304	47.56	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7963.353	48.49	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12525.745	50.85	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

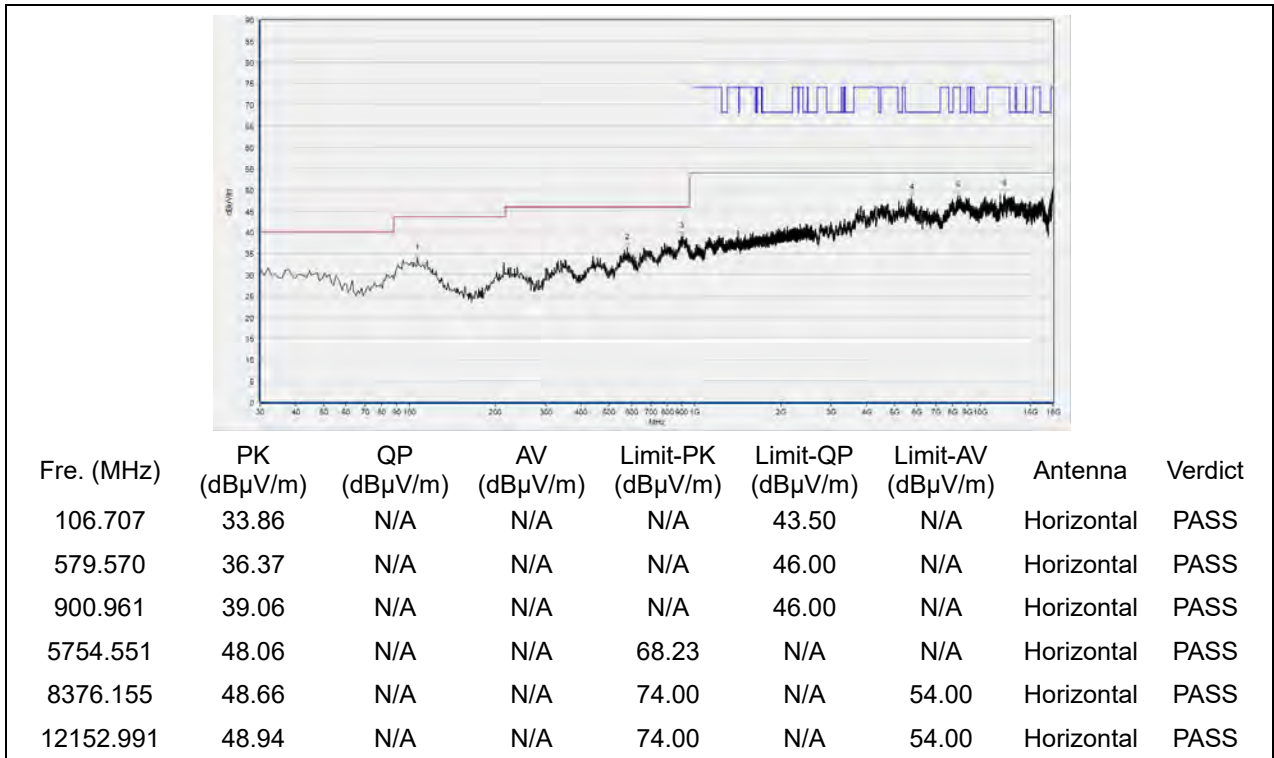
(Antenna Horizontal, 30MHz to 18GHz)



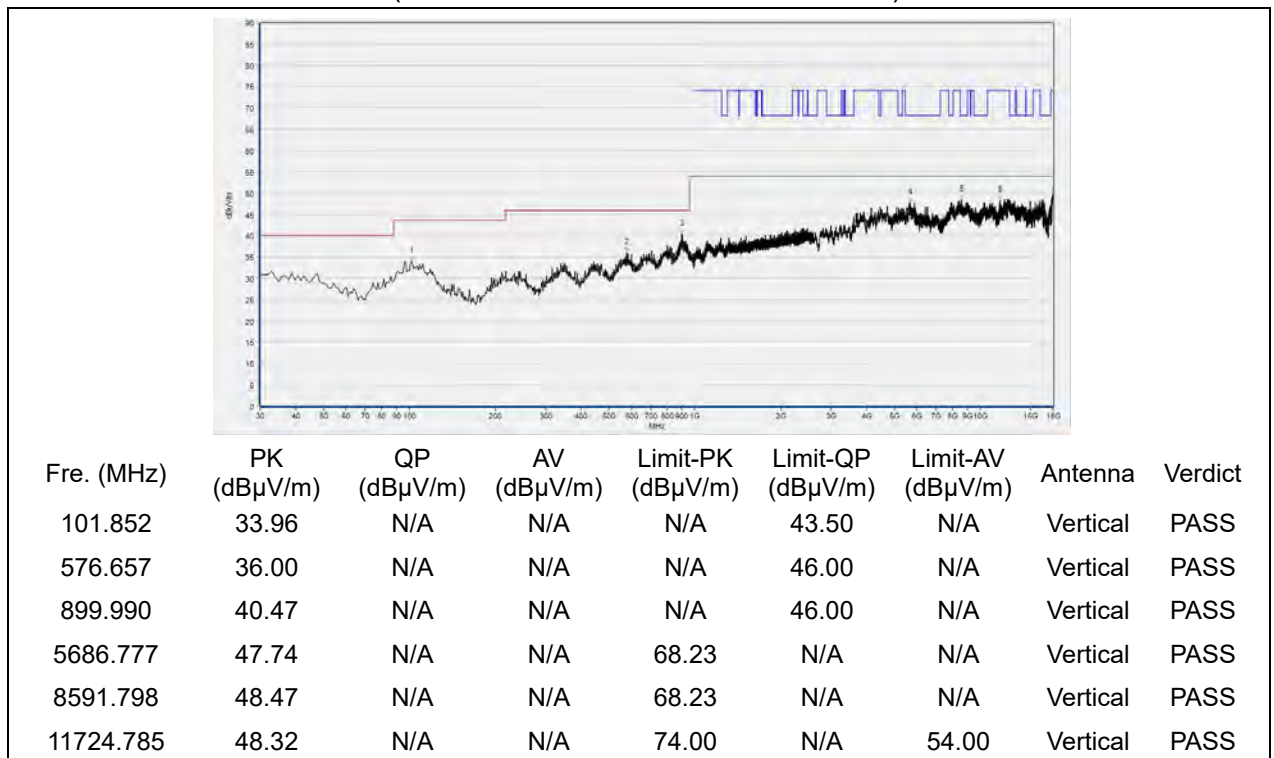
Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
96.997	34.06	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
583.453	36.65	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
882.513	39.91	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5862.372	48.70	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8434.687	48.19	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12152.991	49.21	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 62

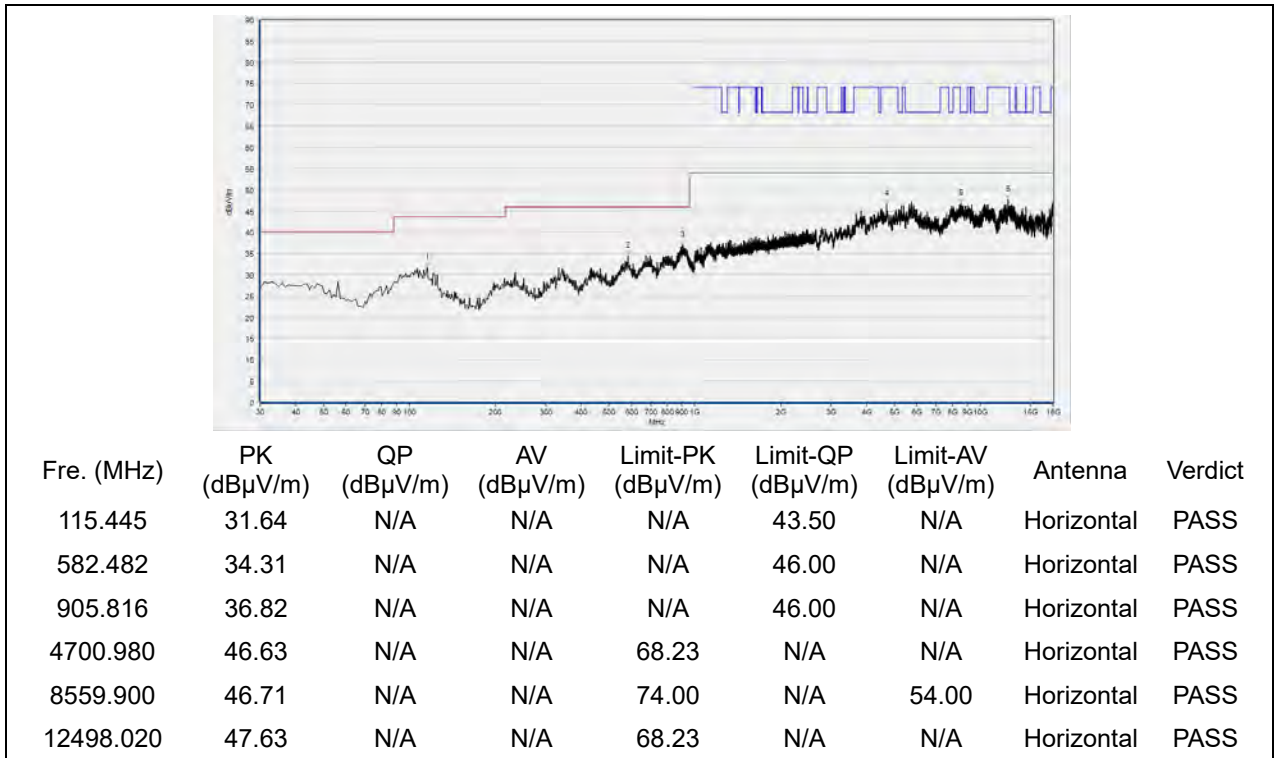


(Antenna Horizontal, 30MHz to 18GHz)

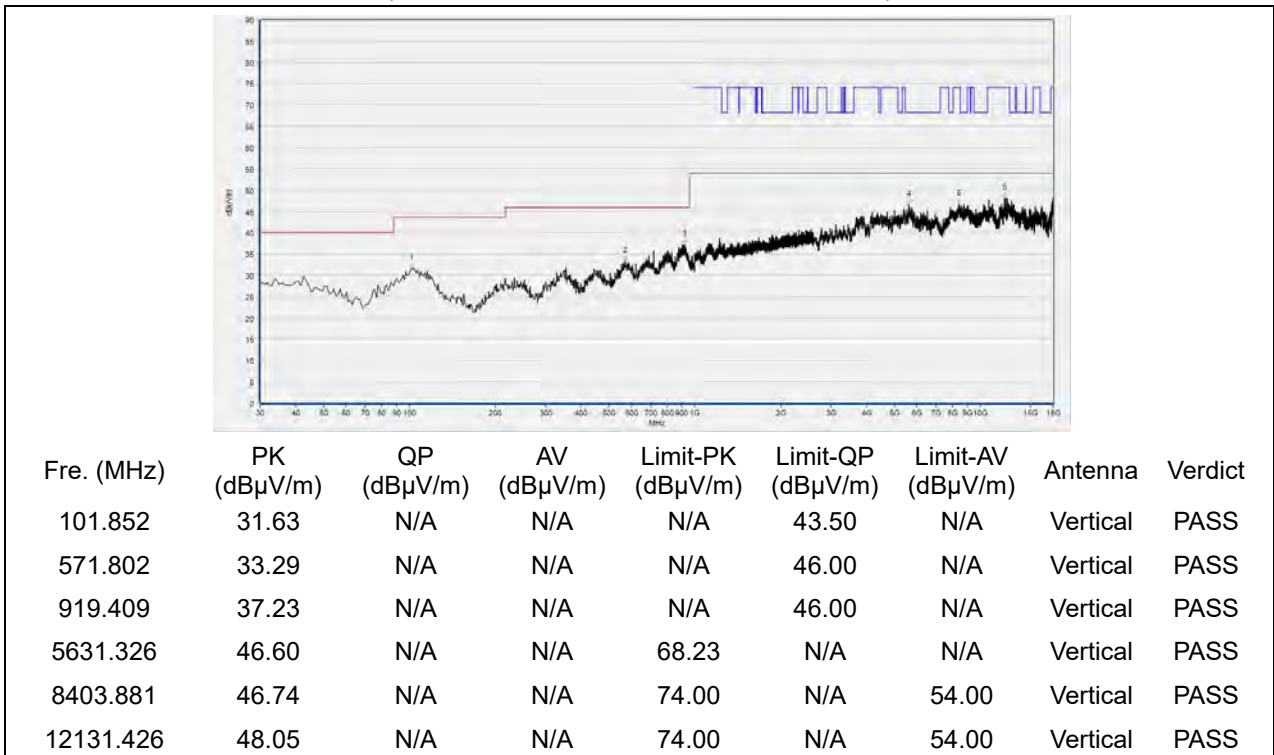


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 102

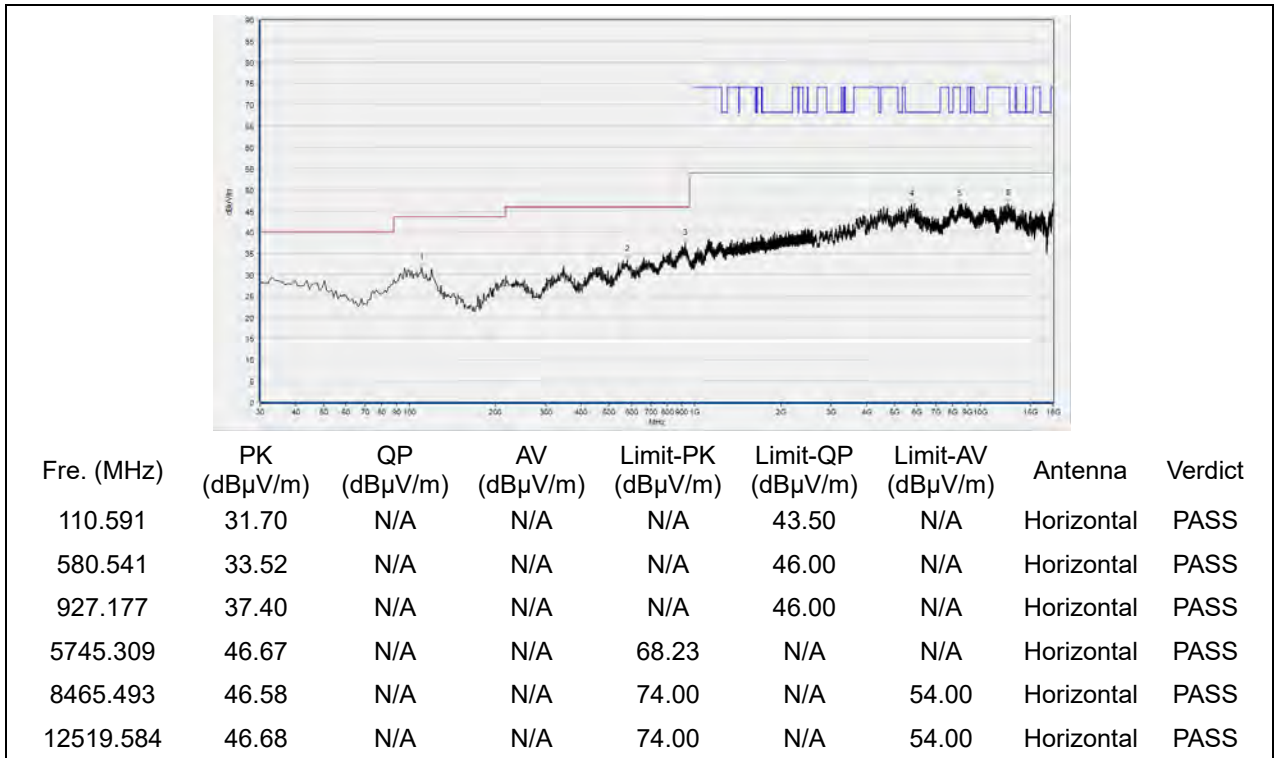


(Antenna Horizontal, 30MHz to 18GHz)

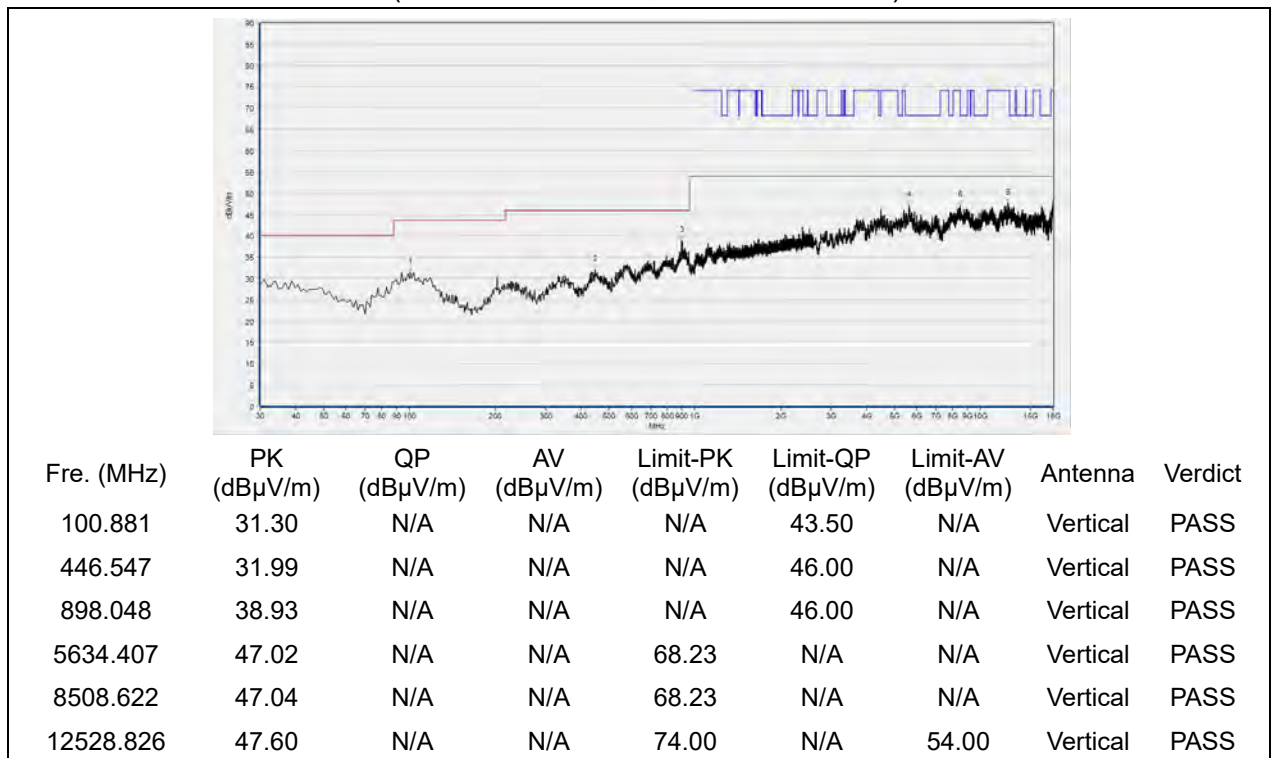


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 126

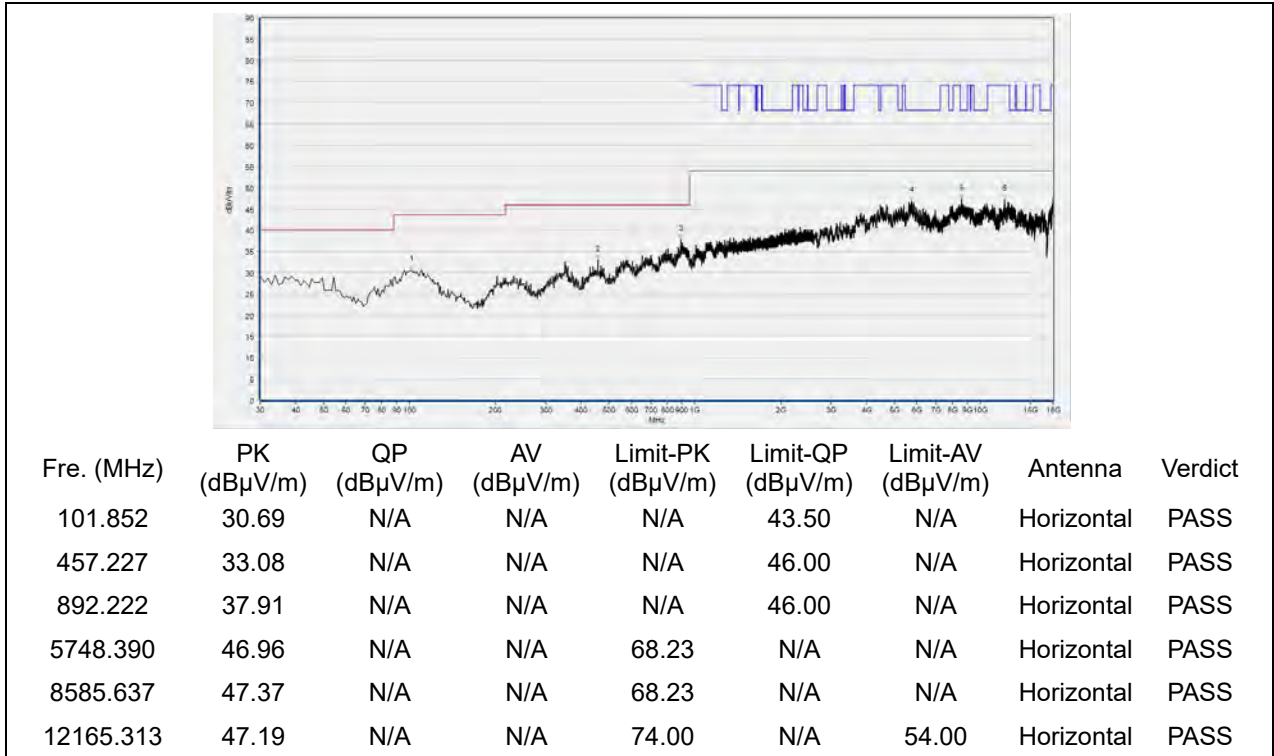


(Antenna Horizontal, 30MHz to 18GHz)

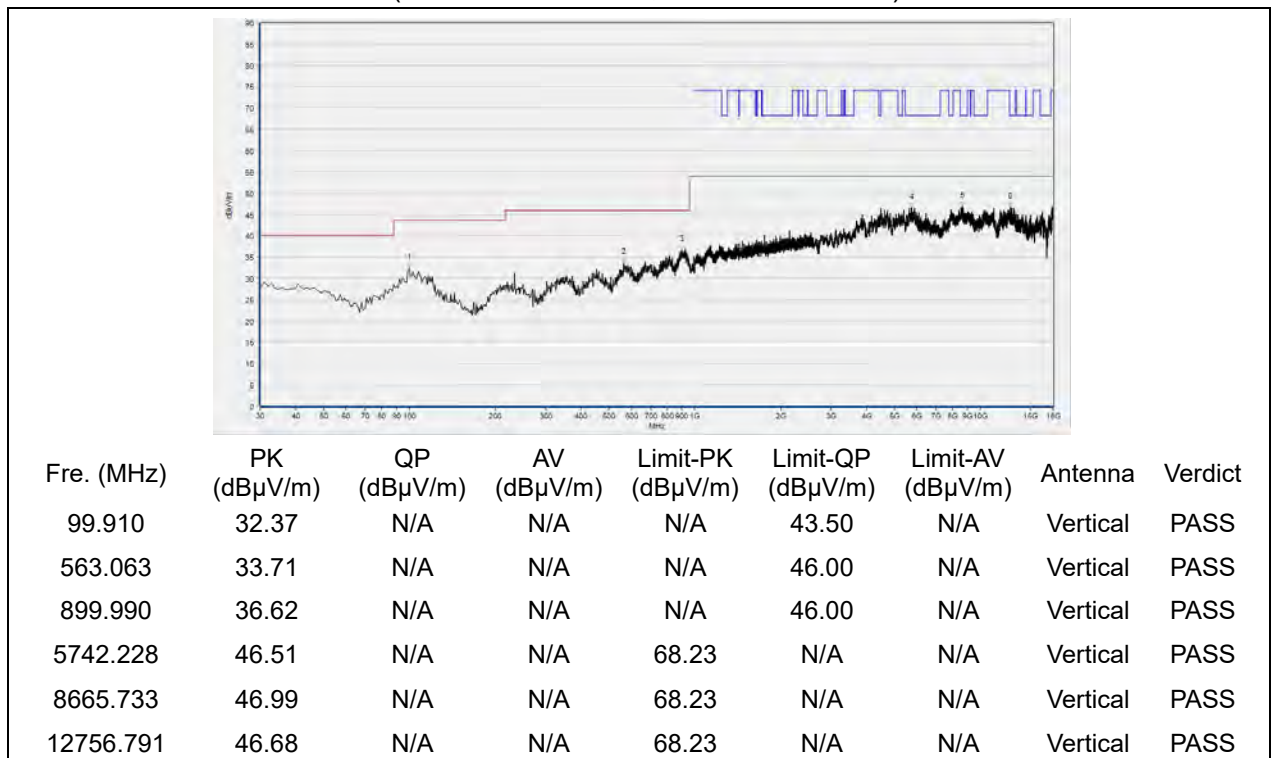


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 134

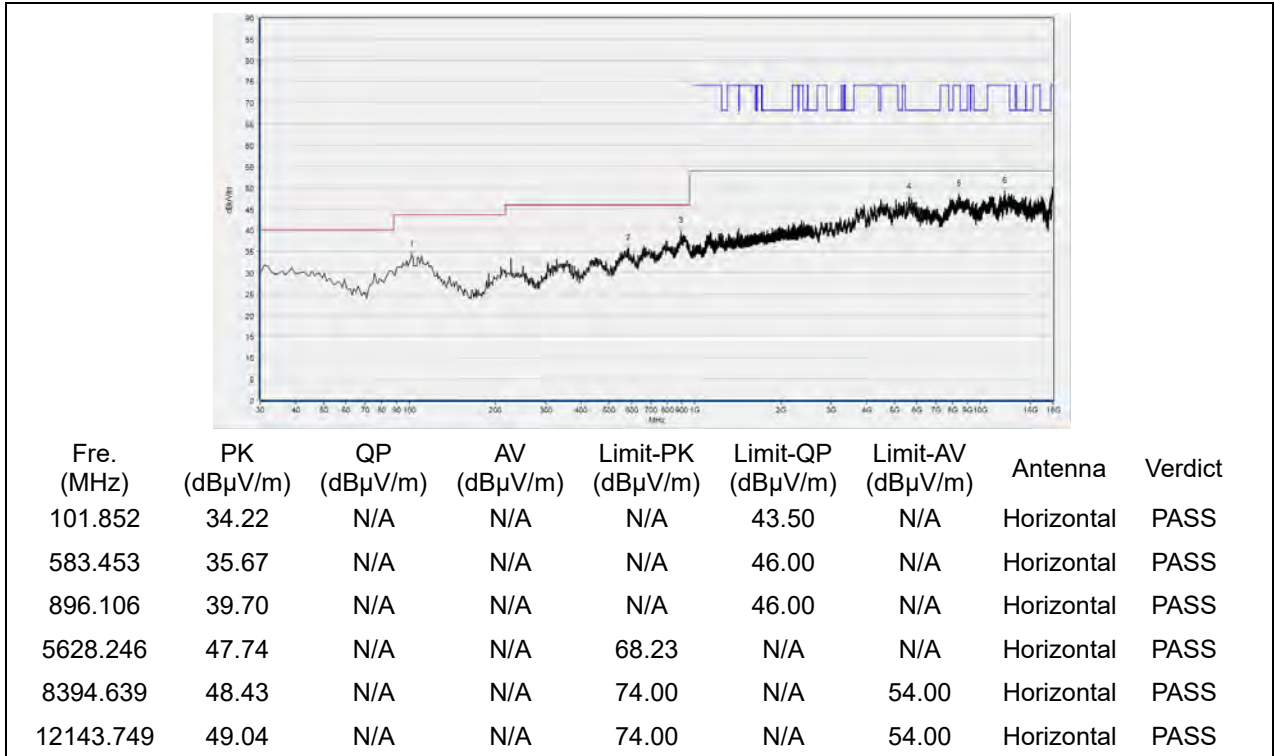


(Antenna Horizontal, 30MHz to 18GHz)

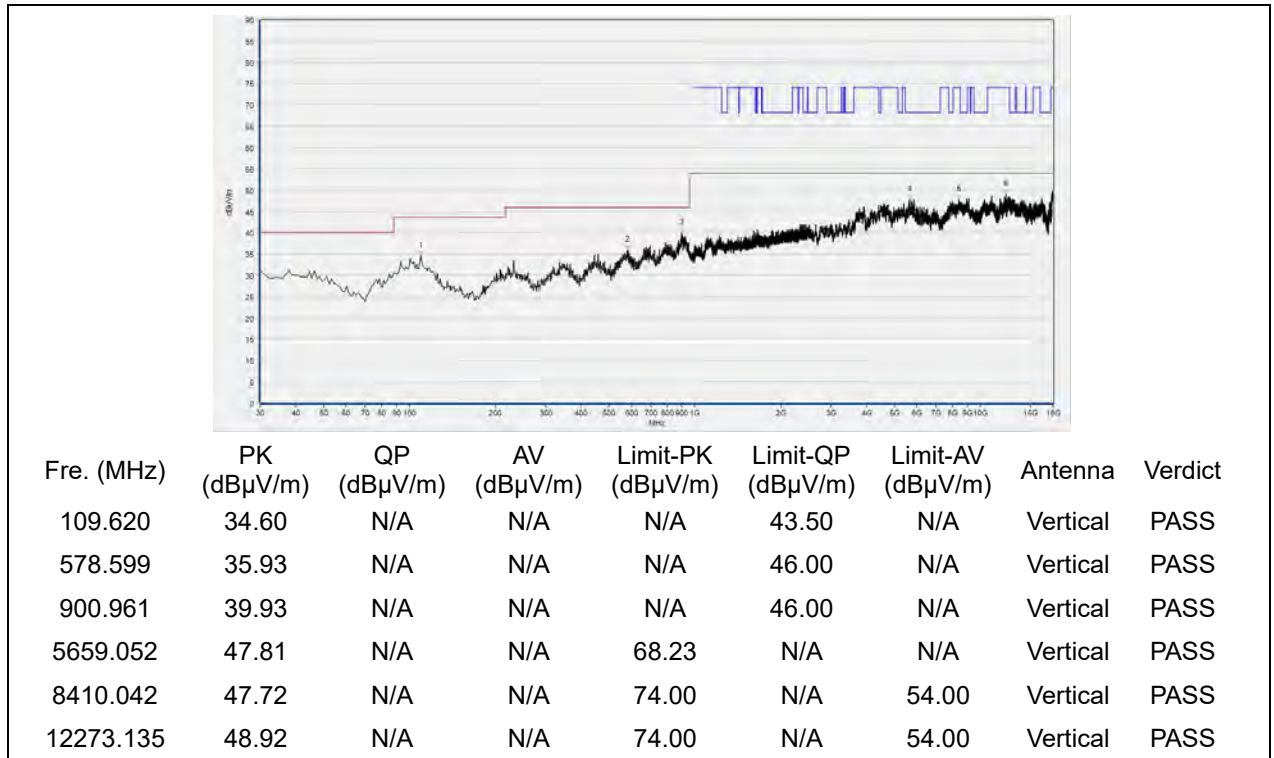


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 151

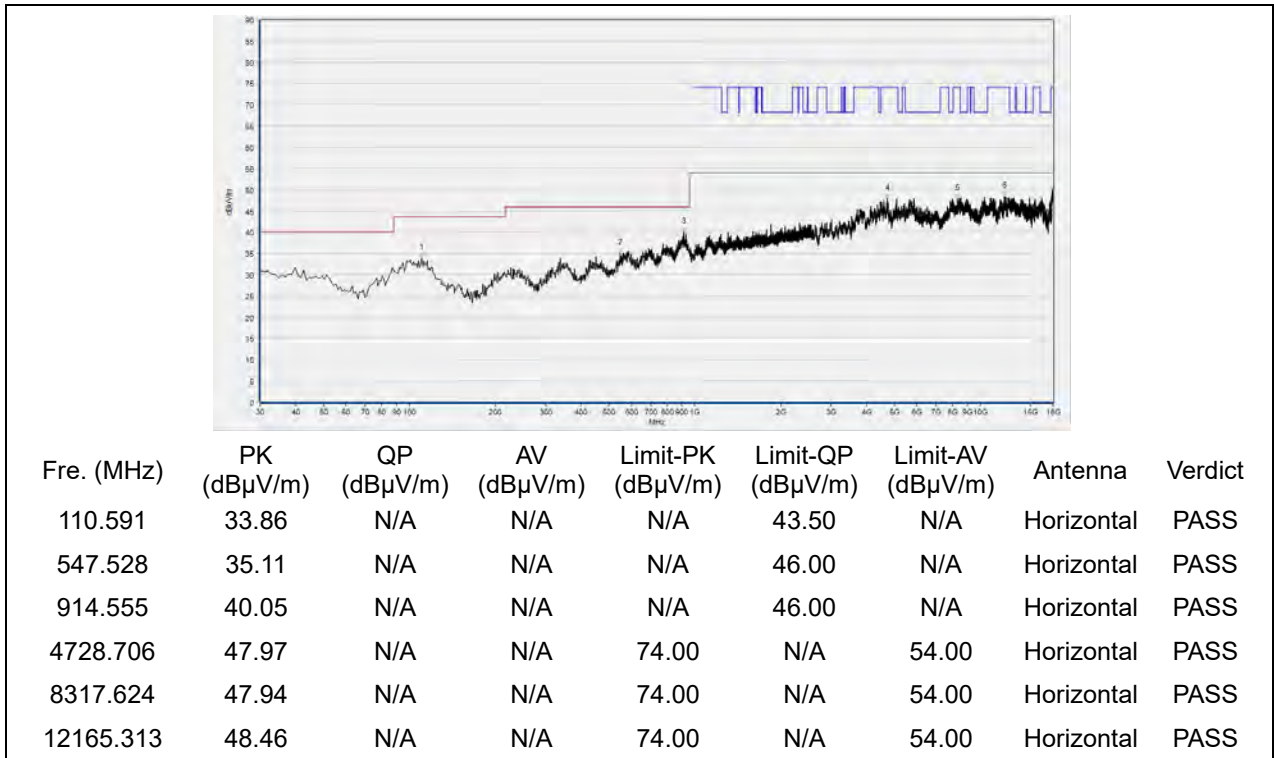


(Antenna Horizontal, 30MHz to 18GHz)

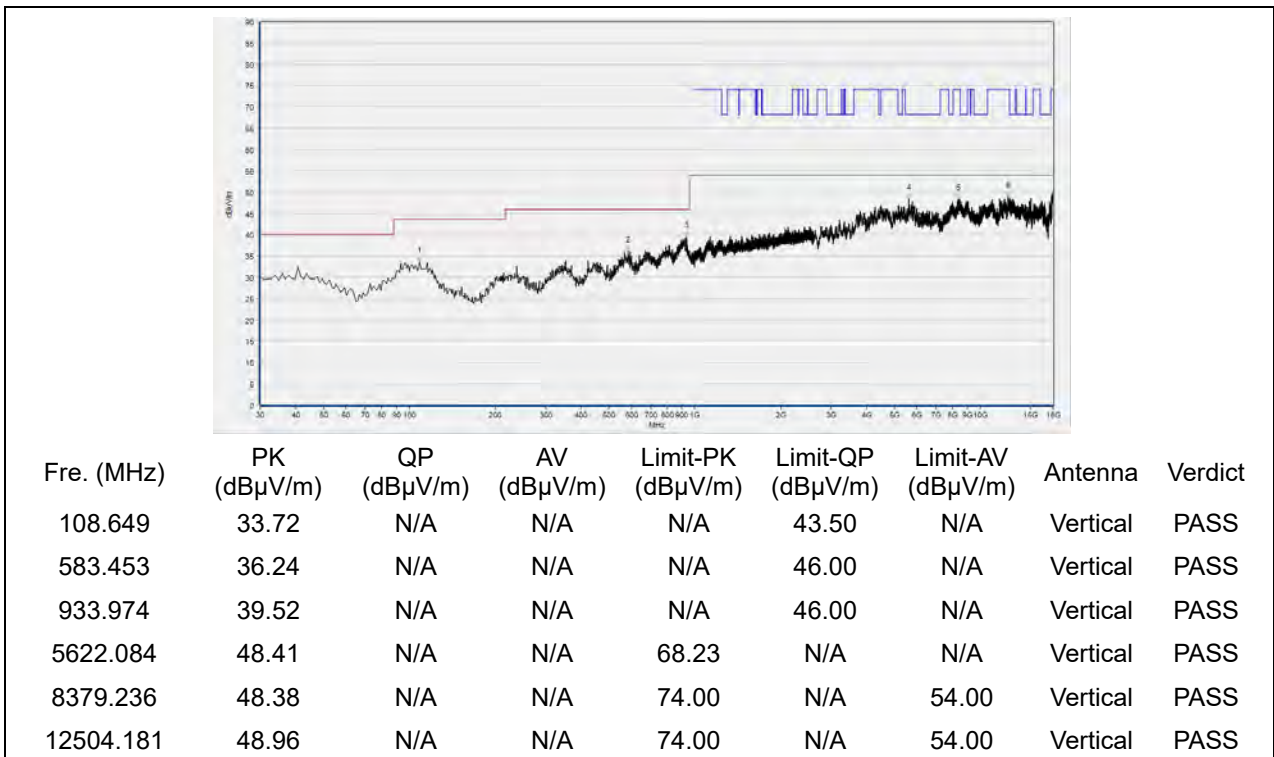


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 159



(Antenna Horizontal, 30MHz to 18GHz)

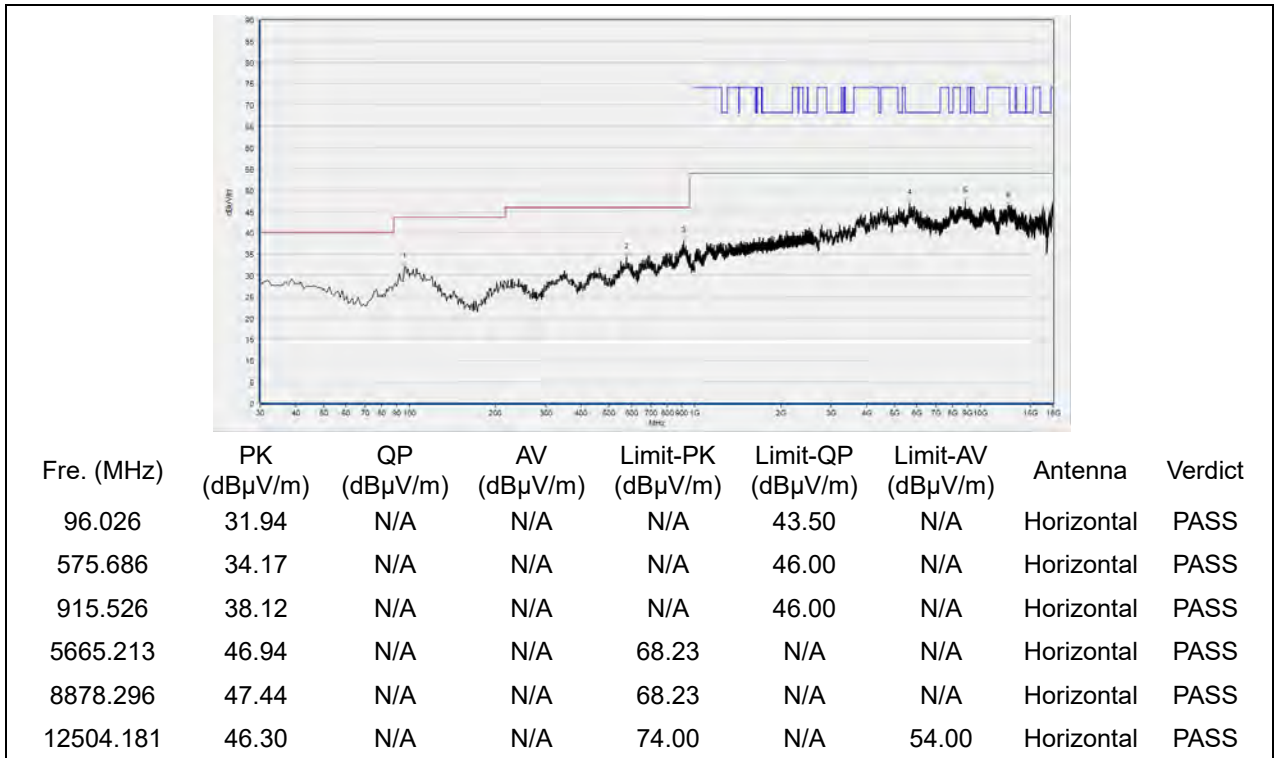


(Antenna Vertical, 30MHz to 18GHz)

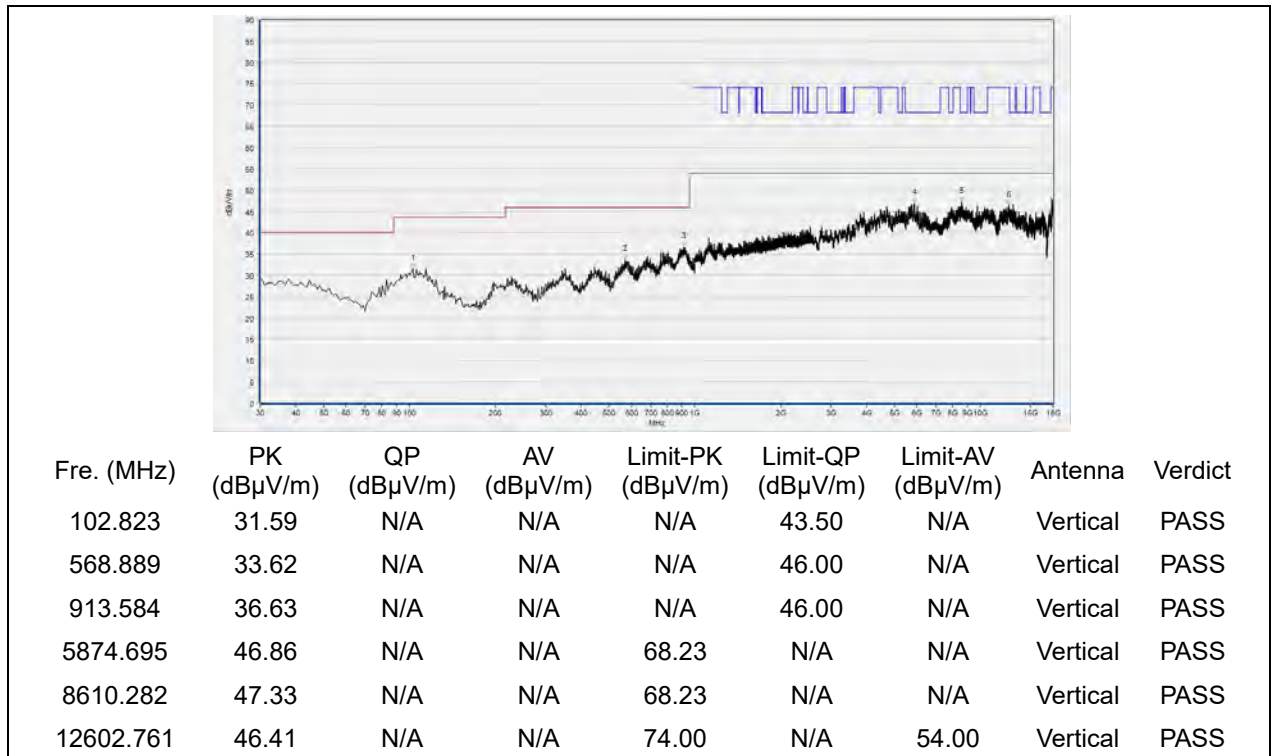


802.11ac (VHT80) Mode

Plot for Channel 42

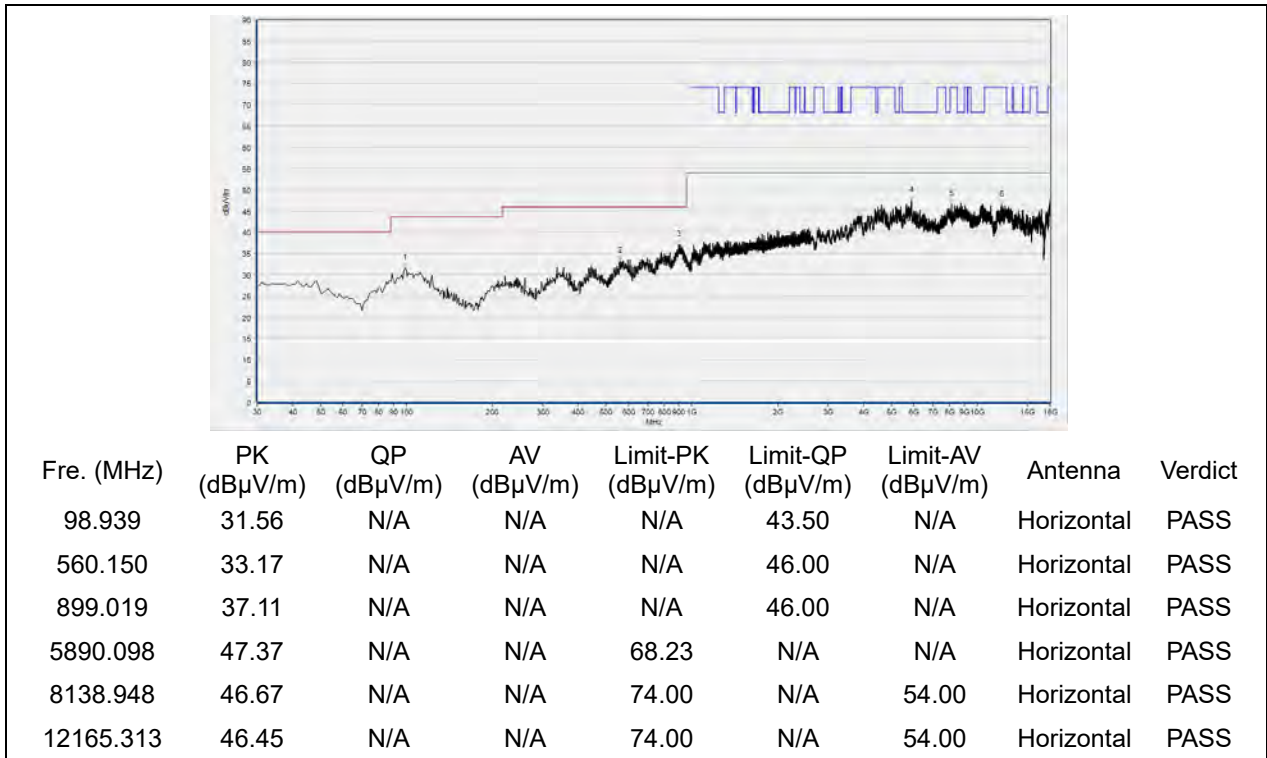


(Antenna Horizontal, 30MHz to 18GHz)

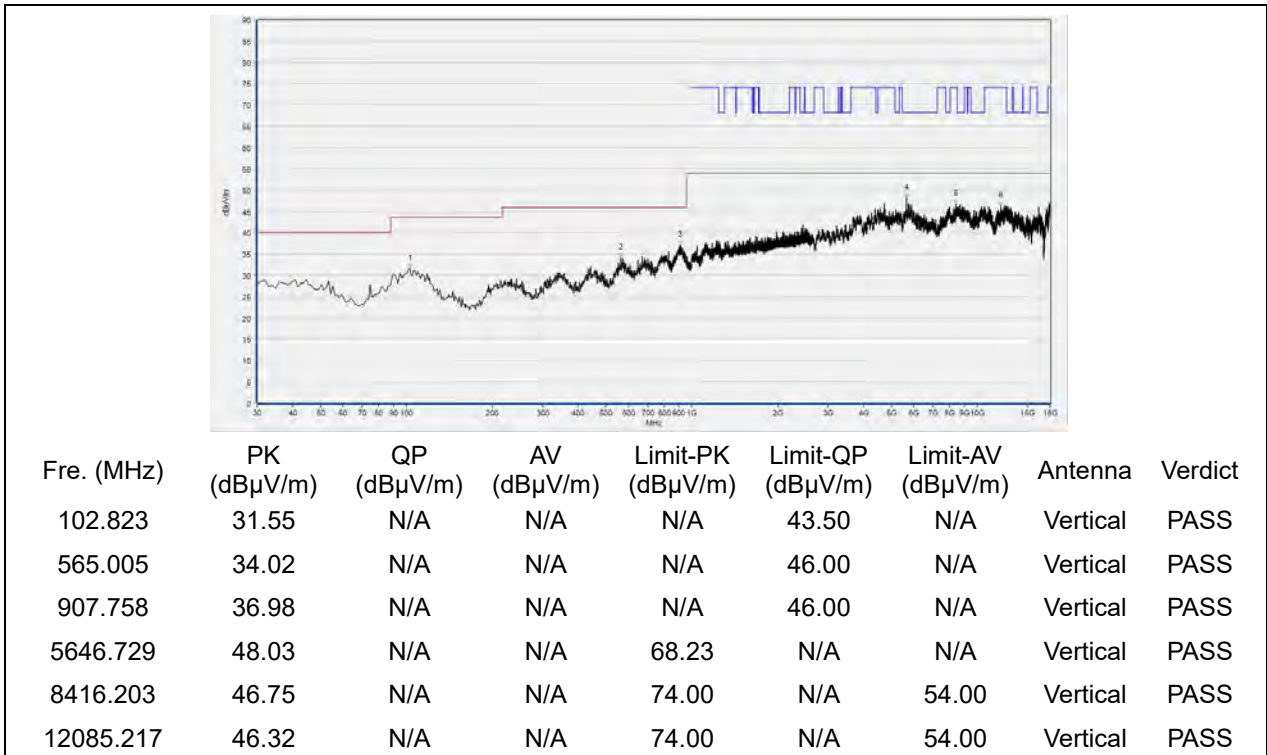


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 58

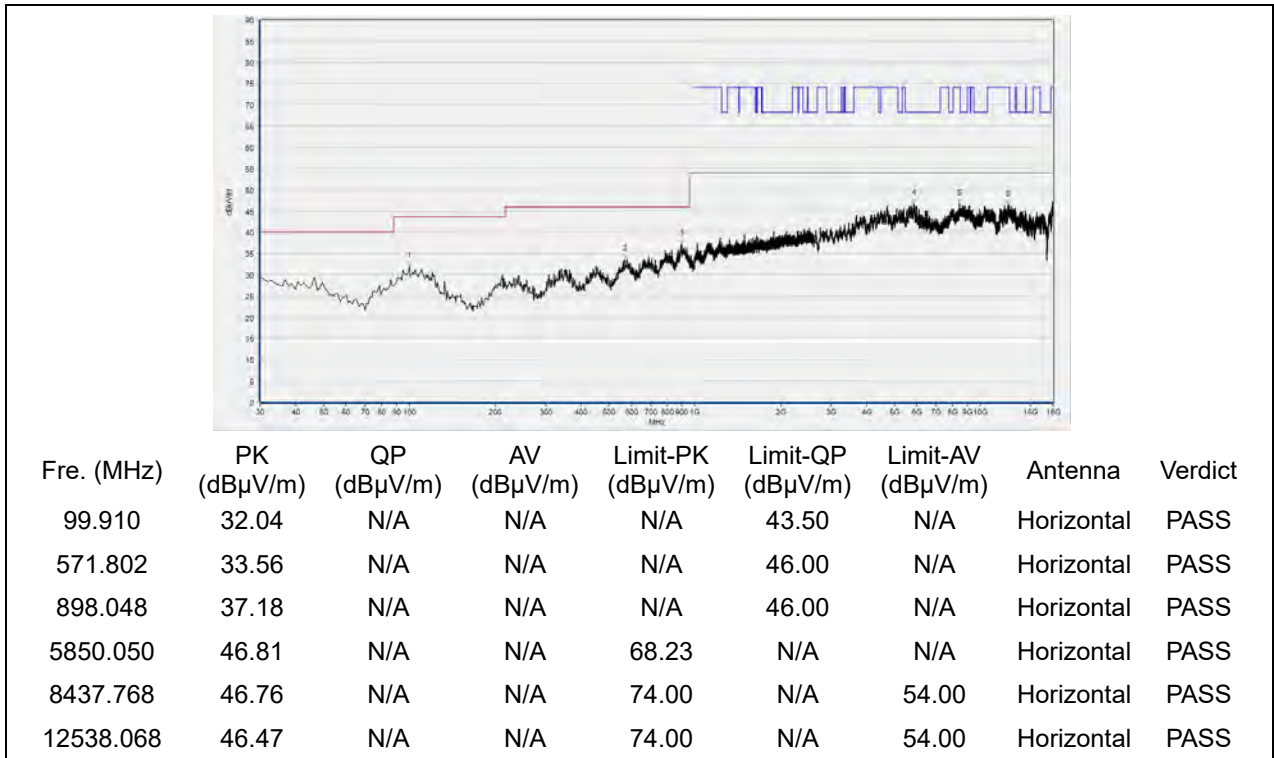


(Antenna Horizontal, 30MHz to 18GHz)

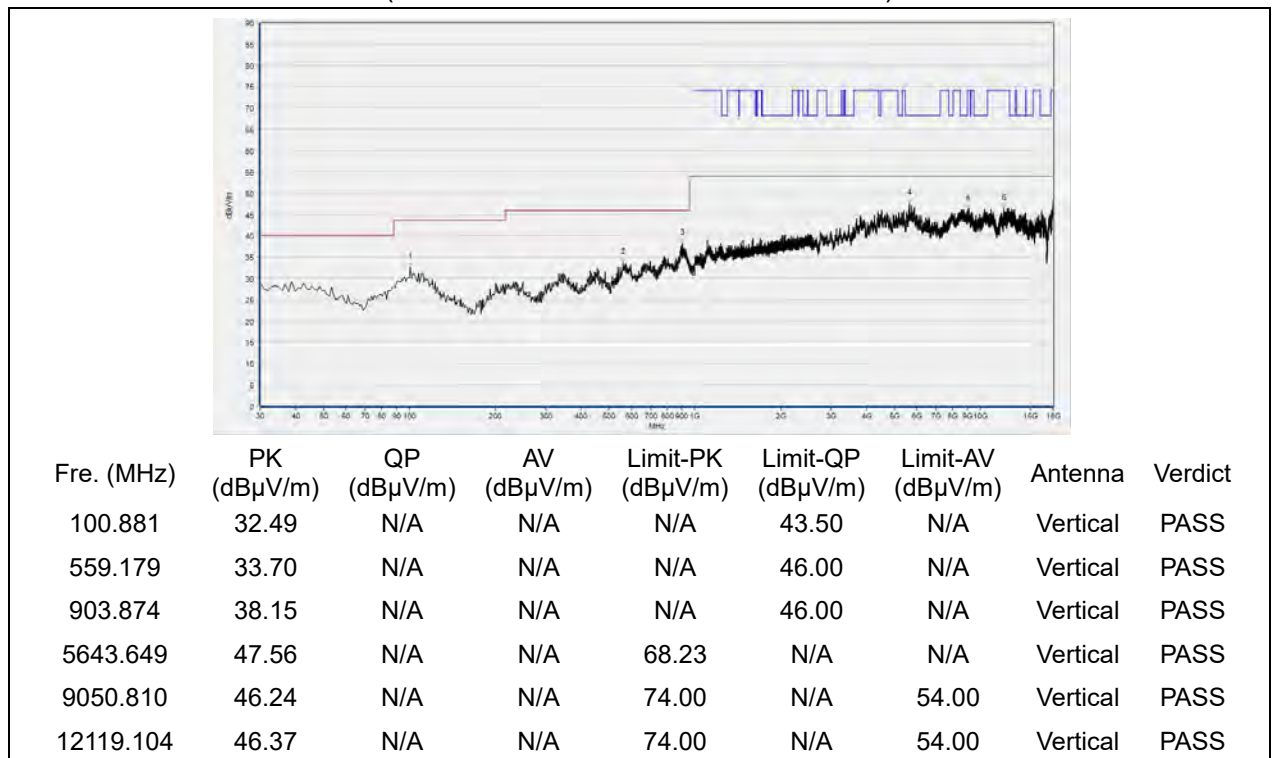


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 106

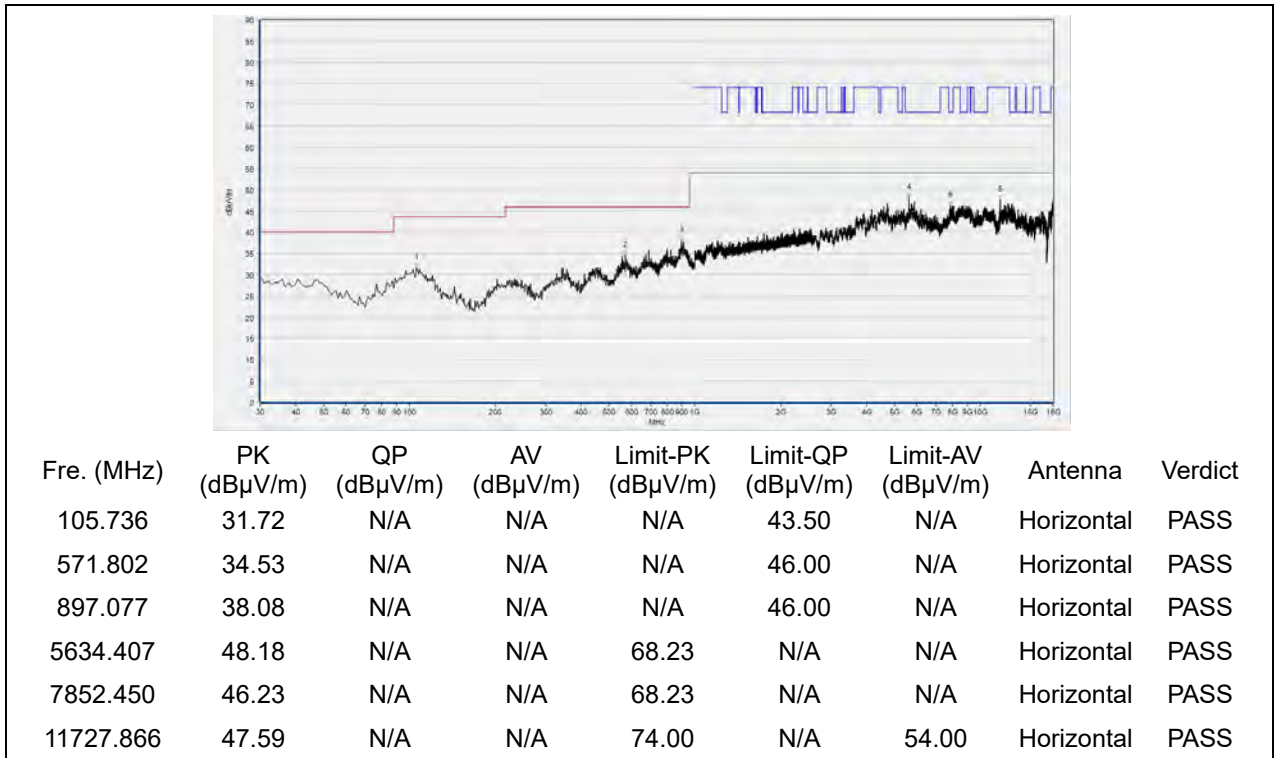


(Antenna Horizontal, 30MHz to 18GHz)

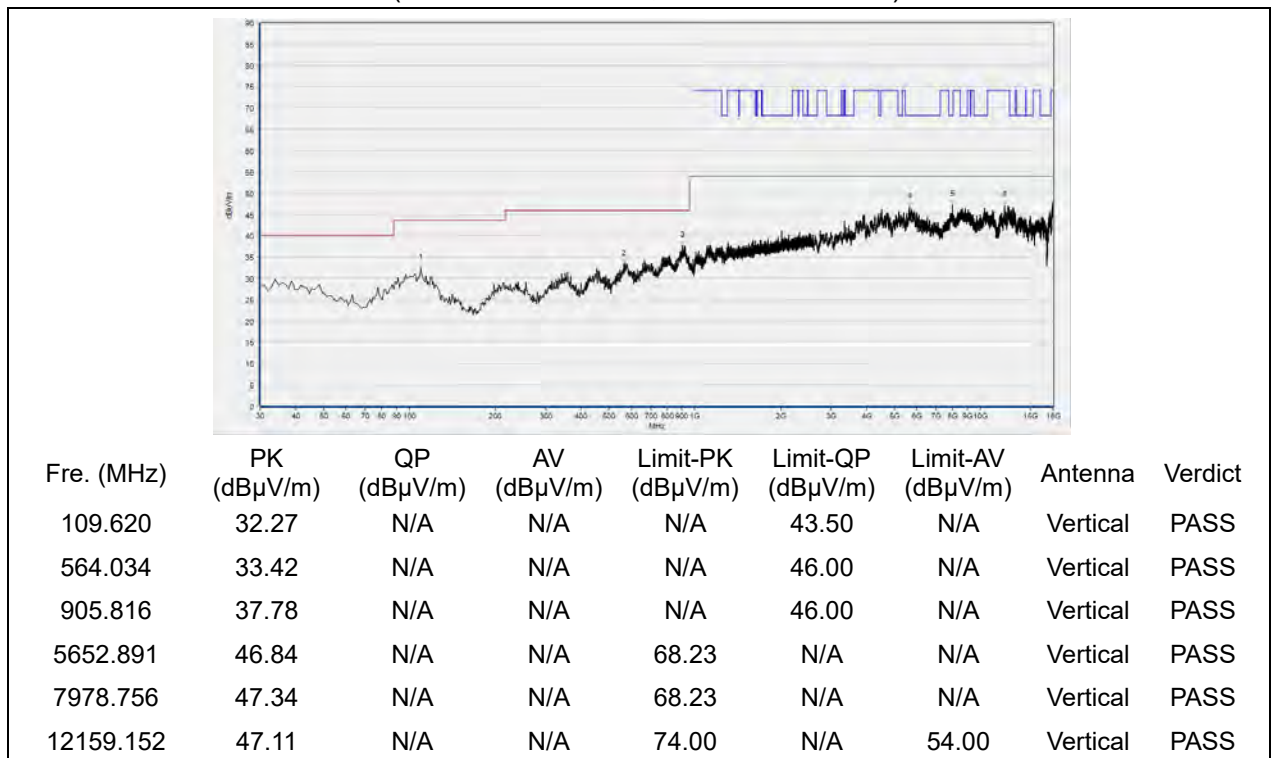


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 122

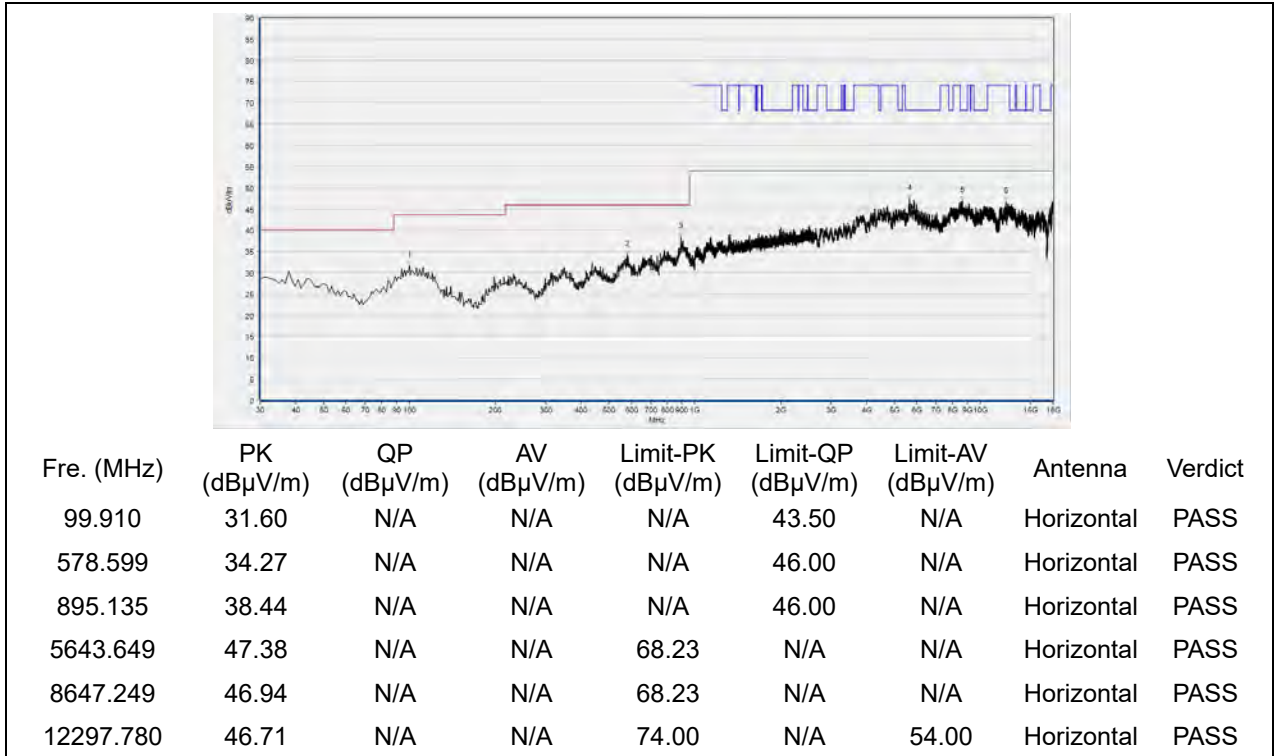


(Antenna Horizontal, 30MHz to 18GHz)

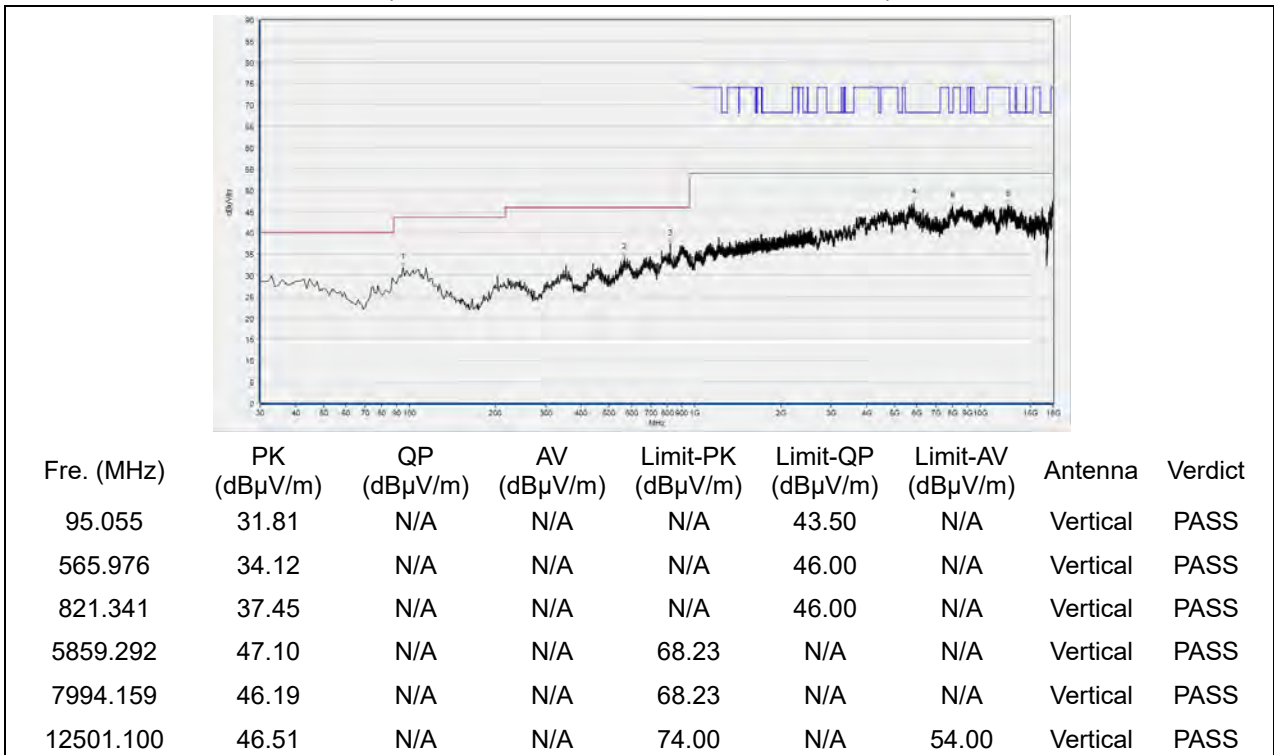


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 138

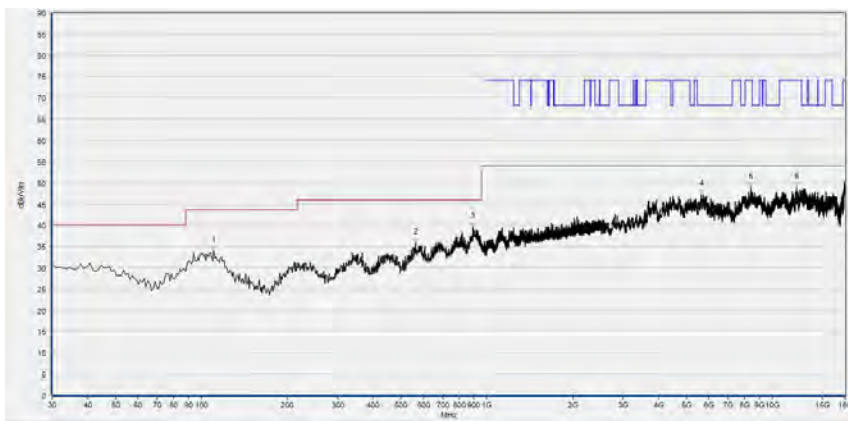


(Antenna Horizontal, 30MHz to 18GHz)



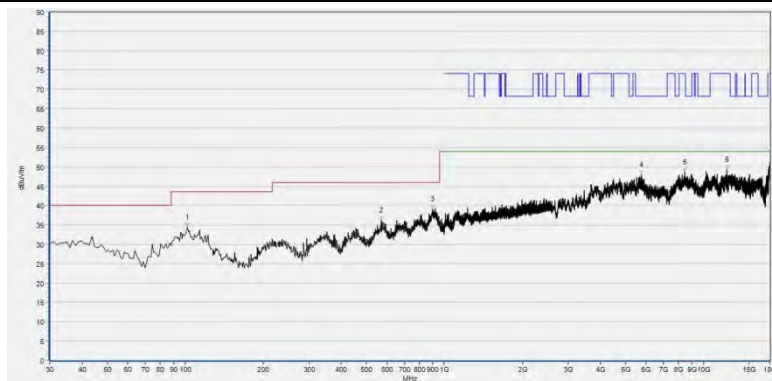
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 155



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
110.591	33.99	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
563.063	35.84	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
893.193	39.57	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5659.052	47.23	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8431.606	48.96	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12165.313	48.88	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
101.852	34.30	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
571.802	36.21	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
898.048	39.11	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5745.309	47.91	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8443.929	48.64	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12288.538	49.22	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

————— END OF REPORT —————