

PSD NVNT ac20 5785MHz Ant1



PSD NVNT ac20 5785MHz Ant2



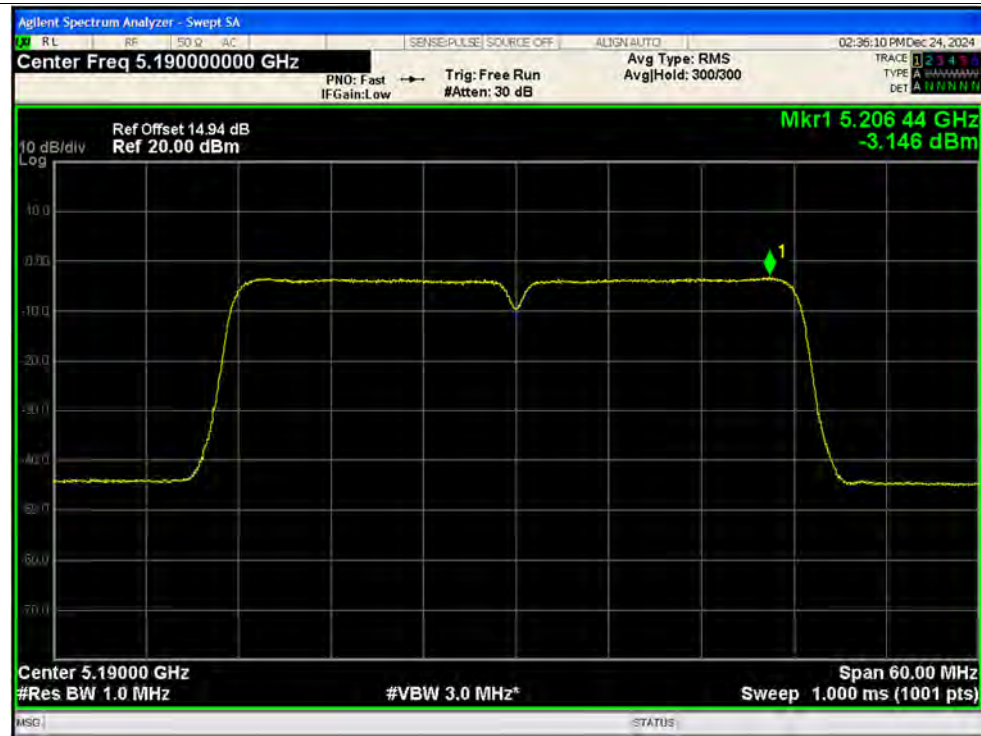
PSD NVNT ac20 5825MHz Ant1



PSD NVNT ac20 5825MHz Ant2



PSD NVNT ac40 5190MHz Ant1



PSD NVNT ac40 5230MHz Ant1



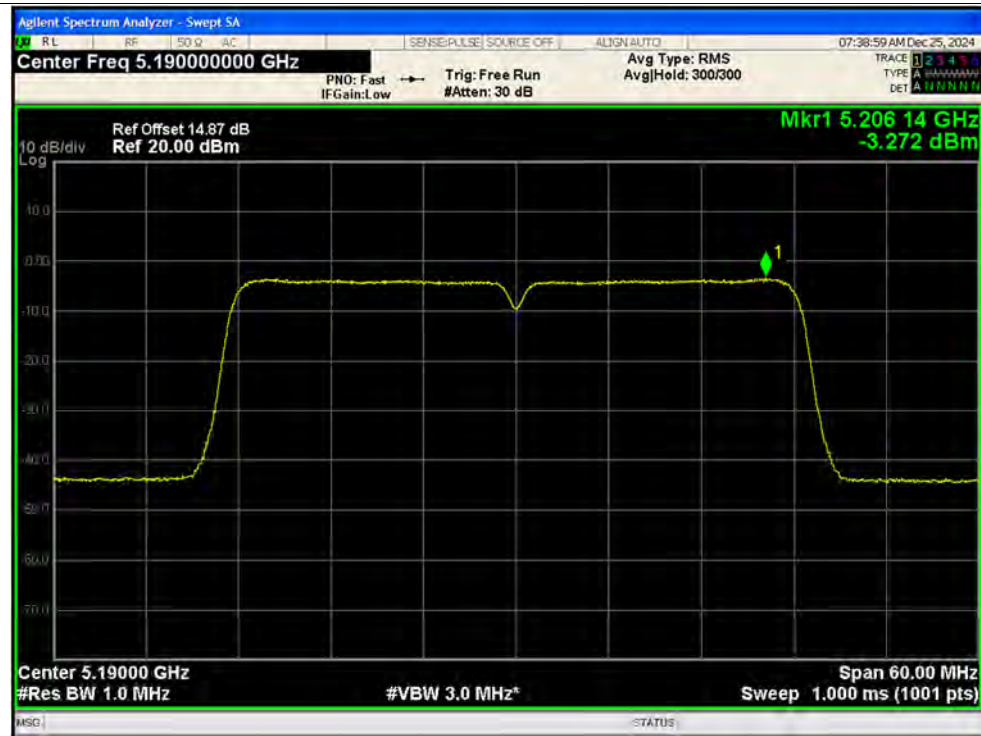
PSD NVNT ac40 5755MHz Ant1



PSD NVNT ac40 5795MHz Ant1



PSD NVNT ac40 5190MHz Ant2



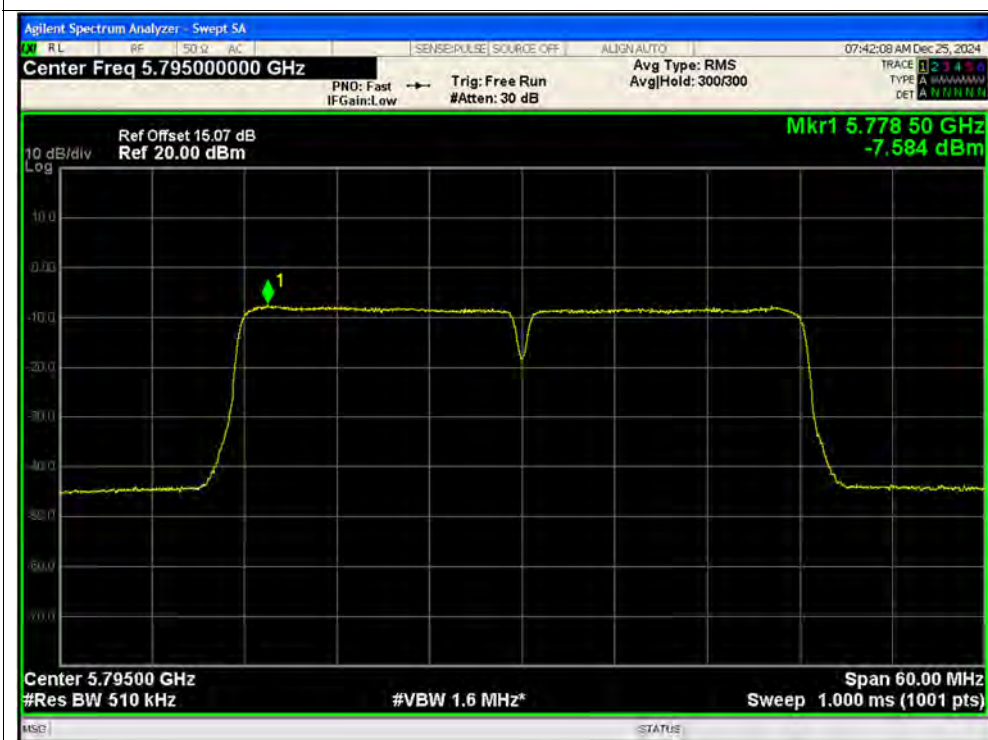
PSD NVNT ac40 5230MHz Ant2



PSD NVNT ac40 5755MHz Ant2



PSD NVNT ac40 5795MHz Ant2



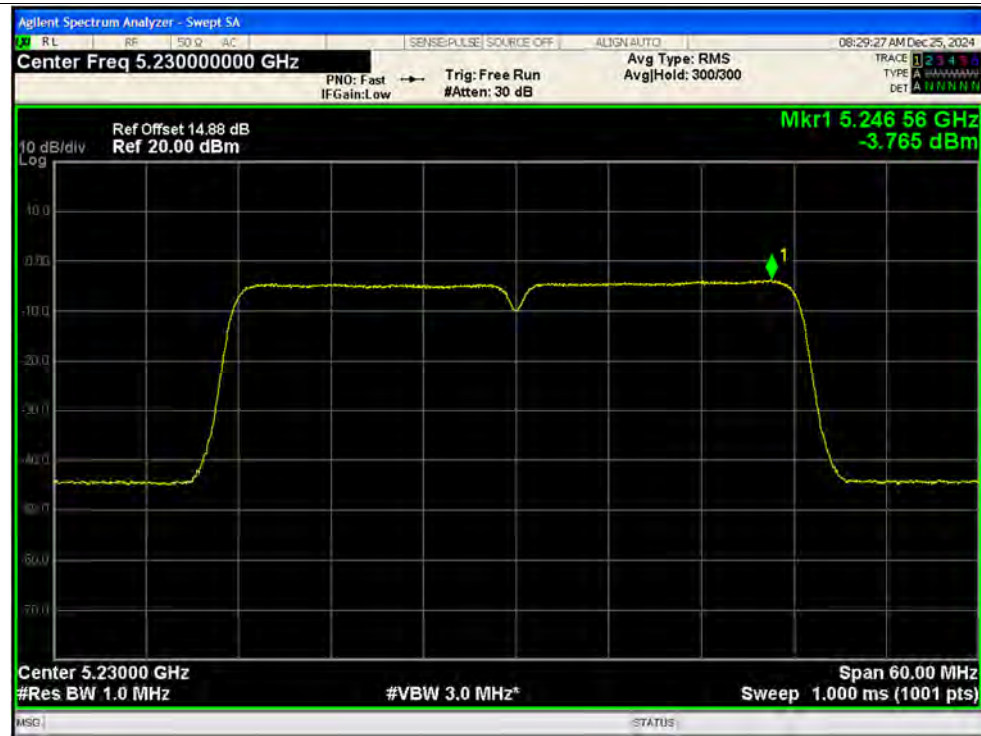
PSD NVNT ac40 5190MHz Ant1



PSD NVNT ac40 5190MHz Ant2



PSD NVNT ac40 5230MHz Ant1



PSD NVNT ac40 5230MHz Ant2



PSD NVNT ac40 5755MHz Ant1



PSD NVNT ac40 5755MHz Ant2



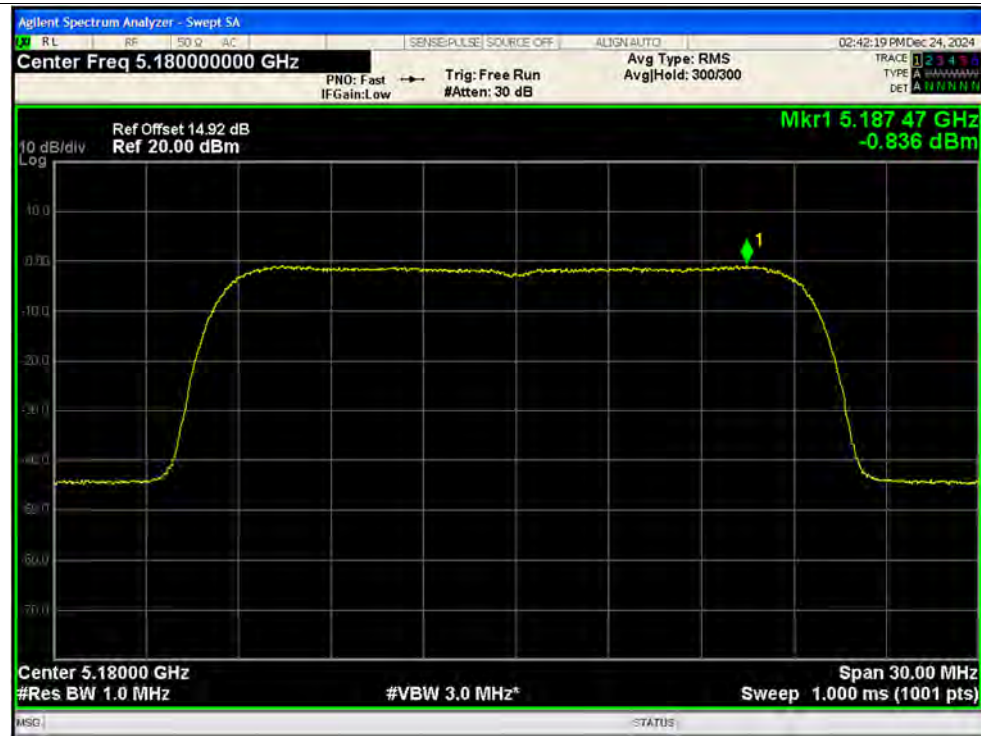
PSD NVNT ac40 5795MHz Ant1



PSD NVNT ac40 5795MHz Ant2



PSD NVNT ax20 5180MHz Ant1



PSD NVNT ax20 5220MHz Ant1



PSD NVNT ax20 5240MHz Ant1



PSD NVNT ax20 5745MHz Ant1



PSD NVNT ax20 5785MHz Ant1



PSD NVNT ax20 5825MHz Ant1





PSD NVNT ax20 5180MHz Ant2



PSD NVNT ax20 5220MHz Ant2



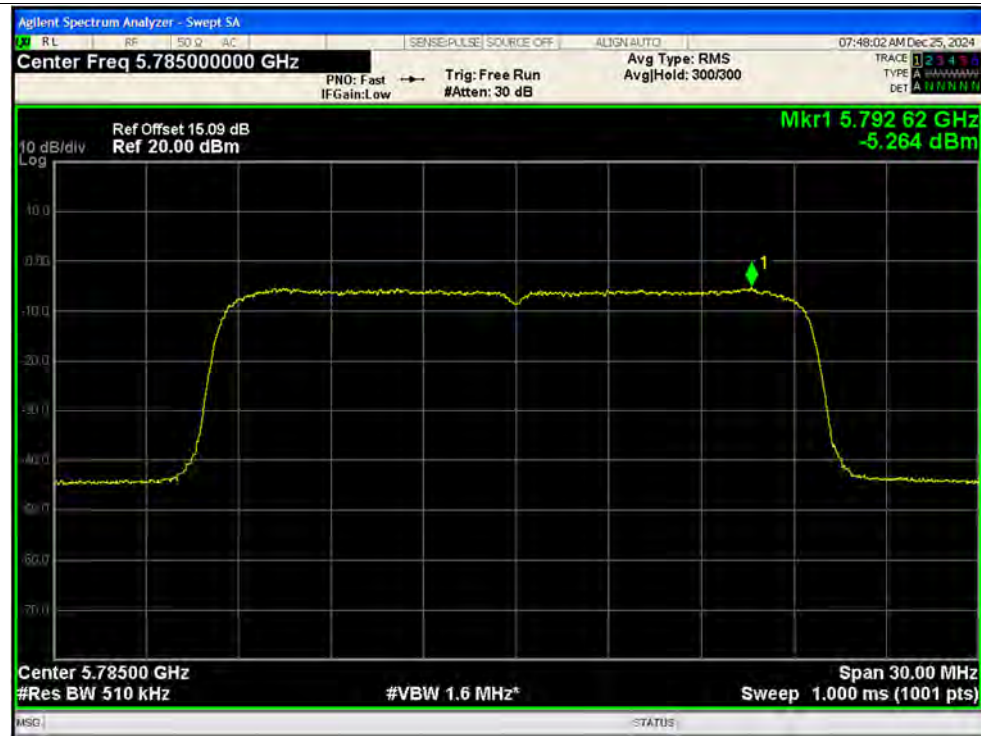
PSD NVNT ax20 5240MHz Ant2



PSD NVNT ax20 5745MHz Ant2



PSD NVNT ax20 5785MHz Ant2



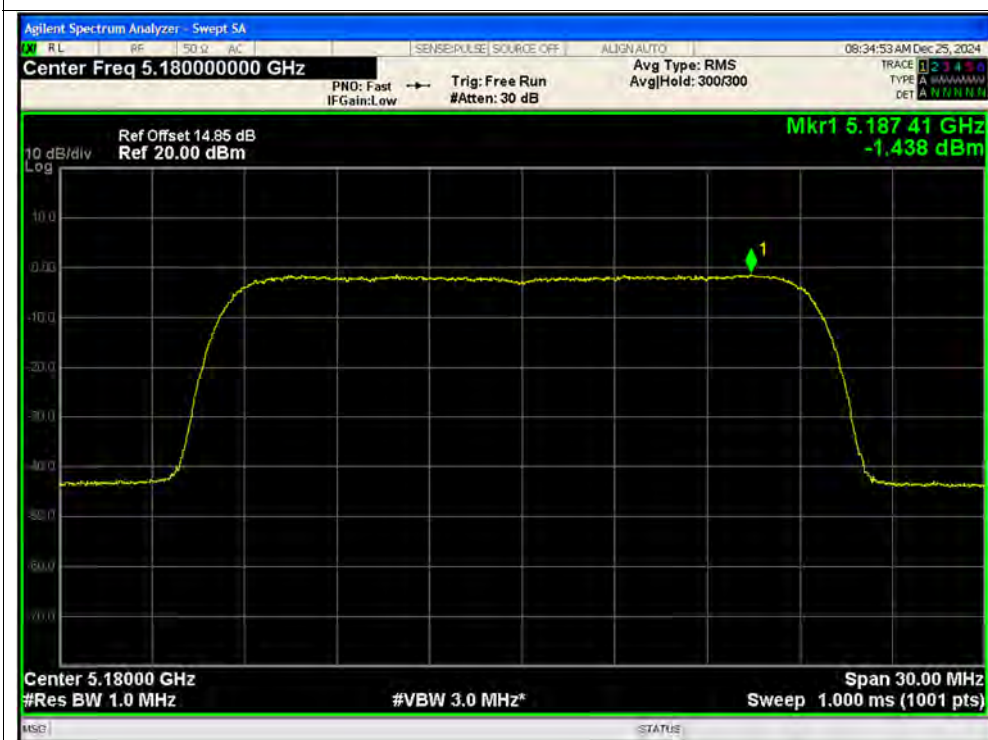
PSD NVNT ax20 5825MHz Ant2



PSD NVNT ax20 5180MHz Ant1



PSD NVNT ax20 5180MHz Ant2



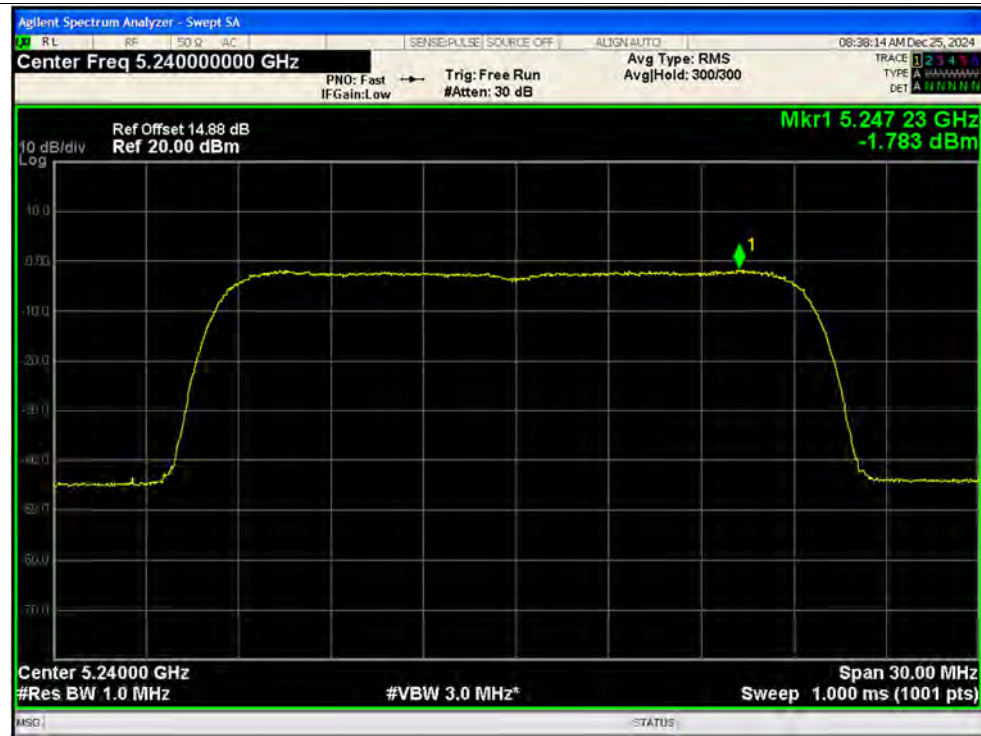
PSD NVNT ax20 5220MHz Ant1



PSD NVNT ax20 5220MHz Ant2



PSD NVNT ax20 5240MHz Ant1



PSD NVNT ax20 5240MHz Ant2



PSD NVNT ax20 5745MHz Ant1



PSD NVNT ax20 5745MHz Ant2



PSD NVNT ax20 5785MHz Ant1



PSD NVNT ax20 5785MHz Ant2



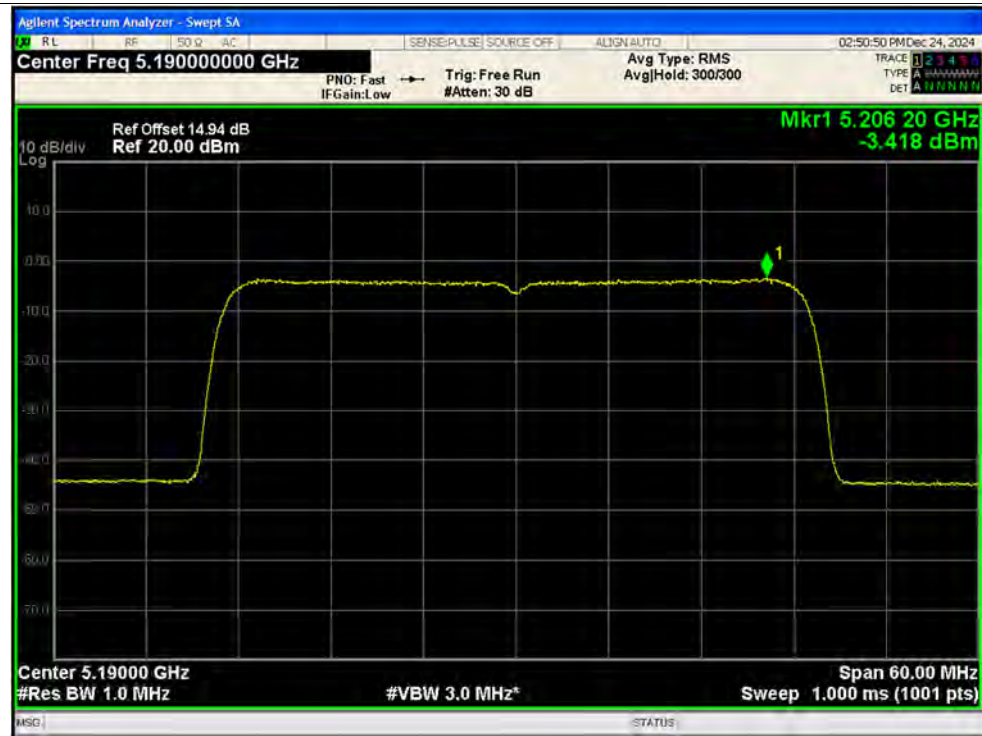
PSD NVNT ax20 5825MHz Ant1



PSD NVNT ax20 5825MHz Ant2



PSD NVNT ax40 5190MHz Ant1



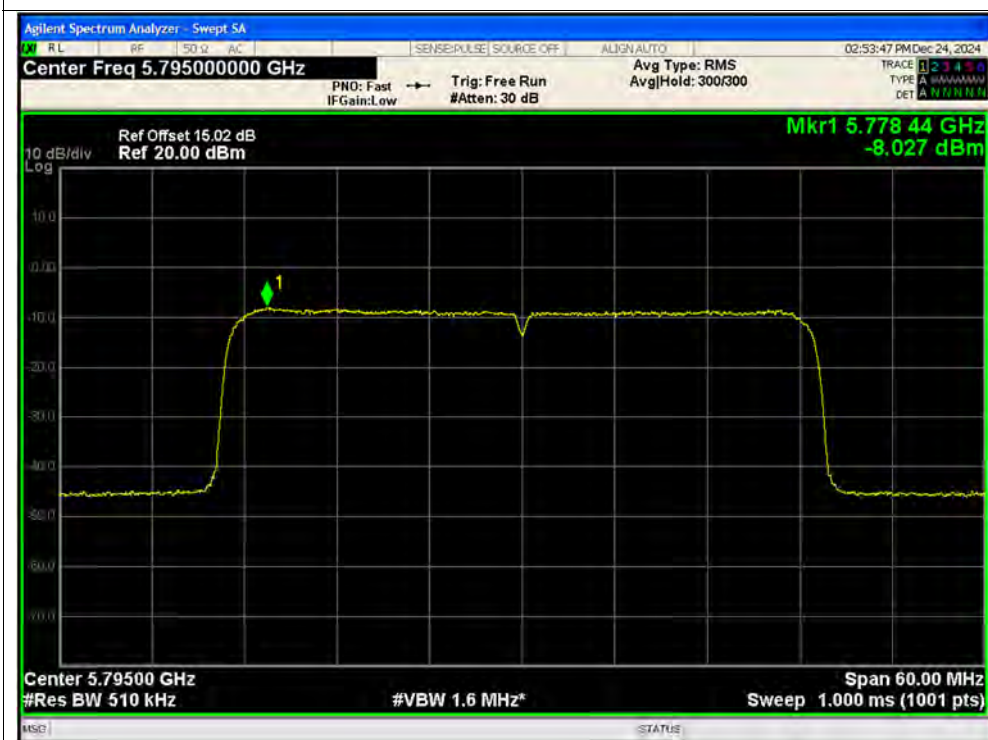
PSD NVNT ax40 5230MHz Ant1



PSD NVNT ax40 5755MHz Ant1



PSD NVNT ax40 5795MHz Ant1



PSD NVNT ax40 5190MHz Ant2



PSD NVNT ax40 5230MHz Ant2



PSD NVNT ax40 5755MHz Ant2



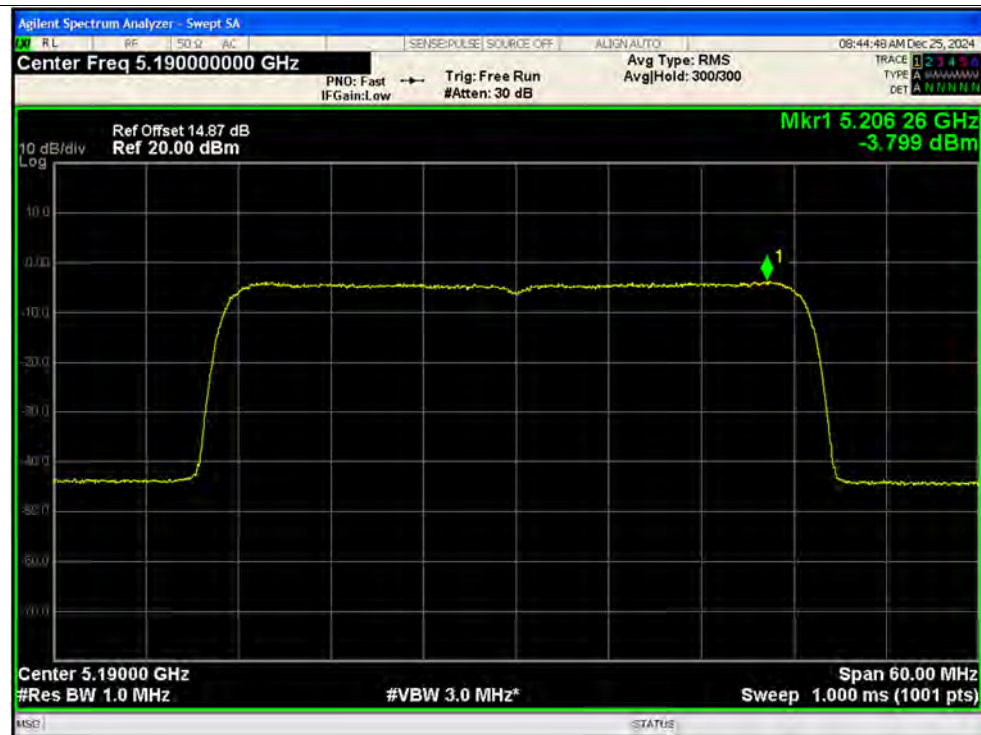
PSD NVNT ax40 5795MHz Ant2



PSD NVNT ax40 5190MHz Ant1



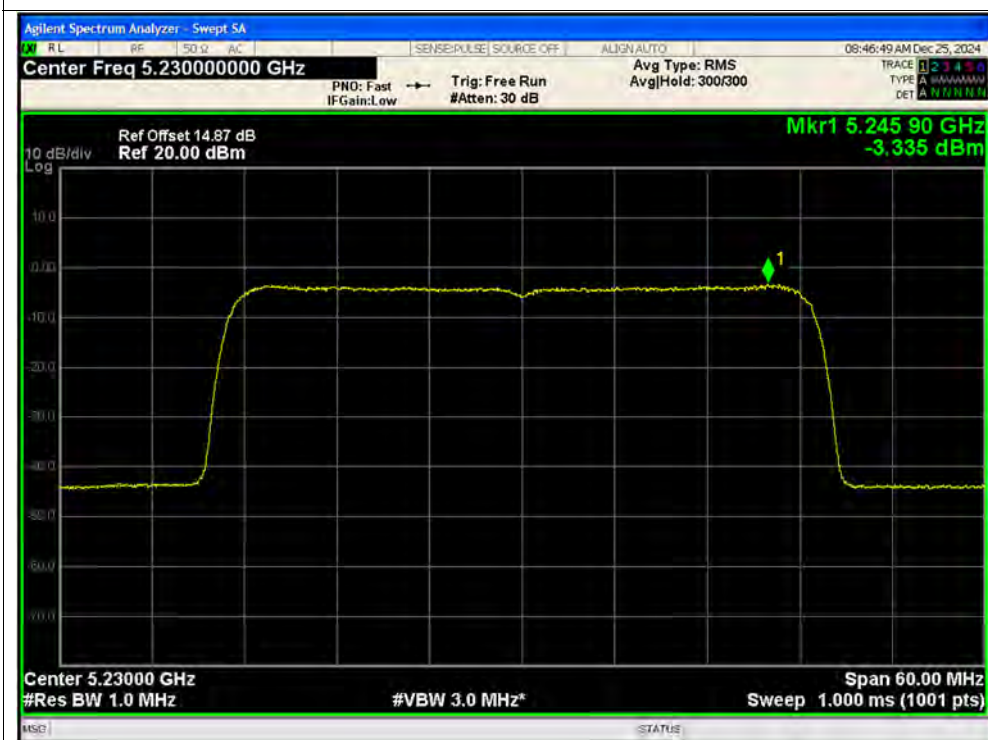
PSD NVNT ax40 5190MHz Ant2



PSD NVNT ax40 5230MHz Ant1



PSD NVNT ax40 5230MHz Ant2



PSD NVNT ax40 5755MHz Ant1



PSD NVNT ax40 5755MHz Ant2



PSD NVNT ax40 5795MHz Ant1



PSD NVNT ax40 5795MHz Ant2



PSD NVNT ax80 5210MHz Ant1

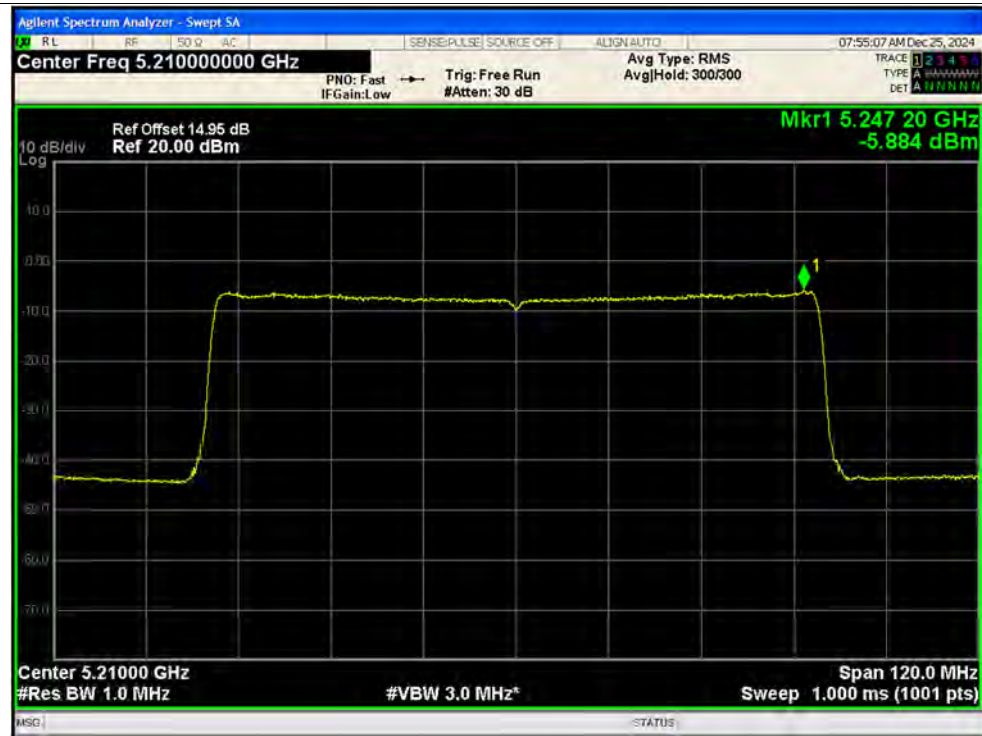


PSD NVNT ax80 5775MHz Ant1





PSD NVNT ax80 5210MHz Ant2



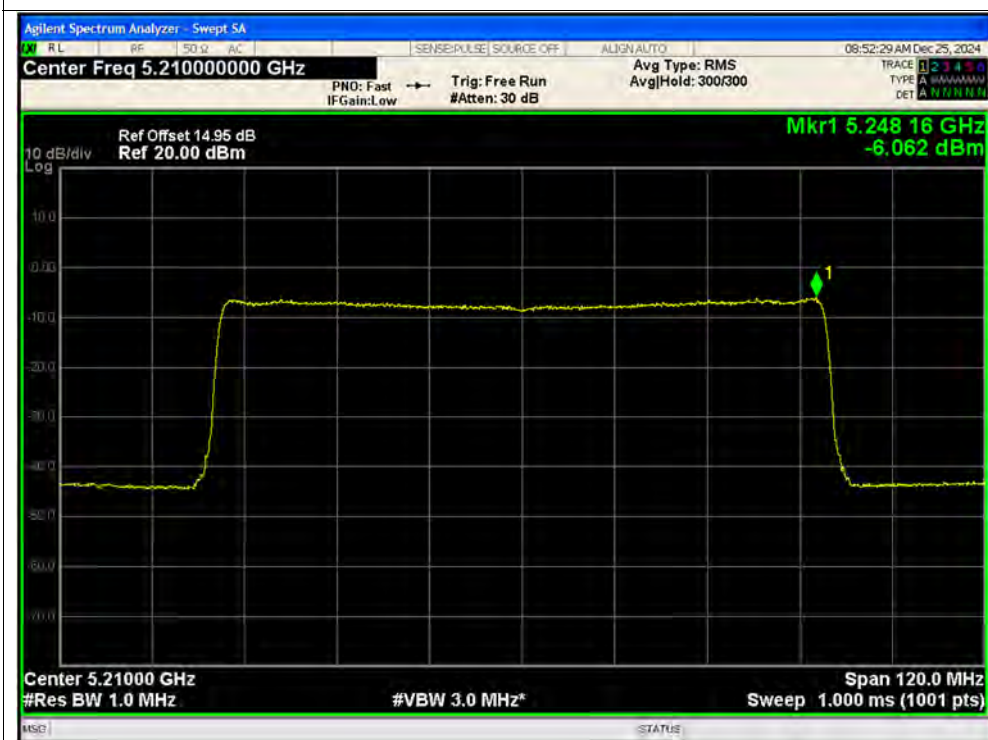
PSD NVNT ax80 5775MHz Ant2



PSD NVNT ax80 5210MHz Ant1



PSD NVNT ax80 5210MHz Ant2





PSD NVNT ax80 5775MHz Ant1



PSD NVNT ax80 5775MHz Ant2



**A.5. Frequency Stability**

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
20C 5V	Carrier	5180	Ant1	5179.961	-39000	-7.53	25	Pass
20C 7.6V	Carrier	5180	Ant1	5179.958	-42000	-8.11	25	Pass
20C 20V	Carrier	5180	Ant1	5179.959	-41000	-7.92	25	Pass
-10C 7.6V	Carrier	5180	Ant1	5179.959	-41000	-7.92	25	Pass
0C 7.6V	Carrier	5180	Ant1	5179.958	-42000	-8.11	25	Pass
10C 7.6V	Carrier	5180	Ant1	5179.958	-42000	-8.11	25	Pass
30C 7.6V	Carrier	5180	Ant1	5179.958	-42000	-8.11	25	Pass
40C 7.6V	Carrier	5180	Ant1	5179.957	-43000	-8.3	25	Pass
20C 5V	Carrier	5220	Ant1	5219.958	-42000	-8.05	25	Pass
20C 7.6V	Carrier	5220	Ant1	5219.956	-44000	-8.43	25	Pass
20C 20V	Carrier	5220	Ant1	5219.957	-43000	-8.24	25	Pass
-10C 7.6V	Carrier	5220	Ant1	5219.956	-44000	-8.43	25	Pass
0C 7.6V	Carrier	5220	Ant1	5219.956	-44000	-8.43	25	Pass
10C 7.6V	Carrier	5220	Ant1	5219.956	-44000	-8.43	25	Pass
30C 7.6V	Carrier	5220	Ant1	5219.955	-45000	-8.62	25	Pass
40C 7.6V	Carrier	5220	Ant1	5219.955	-45000	-8.62	25	Pass
20C 5V	Carrier	5240	Ant1	5239.953	-47000	-8.97	25	Pass
20C 7.6V	Carrier	5240	Ant1	5239.951	-49000	-9.35	25	Pass
20C 20V	Carrier	5240	Ant1	5239.951	-49000	-9.35	25	Pass
-10C 7.6V	Carrier	5240	Ant1	5239.951	-49000	-9.35	25	Pass
0C 7.6V	Carrier	5240	Ant1	5239.951	-49000	-9.35	25	Pass
10C 7.6V	Carrier	5240	Ant1	5239.951	-49000	-9.35	25	Pass
30C 7.6V	Carrier	5240	Ant1	5239.95	-50000	-9.54	25	Pass
40C 7.6V	Carrier	5240	Ant1	5239.95	-50000	-9.54	25	Pass
20C 5V	Carrier	5745	Ant1	5744.946	-54000	-9.4	25	Pass
20C 7.6V	Carrier	5745	Ant1	5744.944	-56000	-9.75	25	Pass
20C 20V	Carrier	5745	Ant1	5744.945	-55000	-9.57	25	Pass
-10C 7.6V	Carrier	5745	Ant1	5744.945	-55000	-9.57	25	Pass
0C 7.6V	Carrier	5745	Ant1	5744.945	-55000	-9.57	25	Pass
10C 7.6V	Carrier	5745	Ant1	5744.944	-56000	-9.75	25	Pass
30C 7.6V	Carrier	5745	Ant1	5744.944	-56000	-9.75	25	Pass
40C 7.6V	Carrier	5745	Ant1	5744.944	-56000	-9.75	25	Pass
20C 5V	Carrier	5785	Ant1	5784.946	-54000	-9.33	25	Pass
20C 7.6V	Carrier	5785	Ant1	5784.944	-56000	-9.68	25	Pass



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20C 20V	Carrier	5785	Ant1	5784.945	-55000	-9.51	25	Pass
-10C 7.6V	Carrier	5785	Ant1	5784.945	-55000	-9.51	25	Pass
0C 7.6V	Carrier	5785	Ant1	5784.944	-56000	-9.68	25	Pass
10C 7.6V	Carrier	5785	Ant1	5784.944	-56000	-9.68	25	Pass
30C 7.6V	Carrier	5785	Ant1	5784.944	-56000	-9.68	25	Pass
40C 7.6V	Carrier	5785	Ant1	5784.943	-57000	-9.85	25	Pass
20C 5V	Carrier	5825	Ant1	5824.944	-56000	-9.61	25	Pass
20C 7.6V	Carrier	5825	Ant1	5824.942	-58000	-9.96	25	Pass
20C 20V	Carrier	5825	Ant1	5824.943	-57000	-9.79	25	Pass
-10C 7.6V	Carrier	5825	Ant1	5824.942	-58000	-9.96	25	Pass
0C 7.6V	Carrier	5825	Ant1	5824.942	-58000	-9.96	25	Pass
10C 7.6V	Carrier	5825	Ant1	5824.942	-58000	-9.96	25	Pass
30C 7.6V	Carrier	5825	Ant1	5824.941	-59000	-10.13	25	Pass
40C 7.6V	Carrier	5825	Ant1	5824.941	-59000	-10.13	25	Pass



A.6. Conducted Emission

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

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

A. Test Setup:

Test Mode: EUT+Adapter+Data cable+PC+TV+HDMI cable+Controller+WIFI TX

Test voltage: AC 120V/60Hz

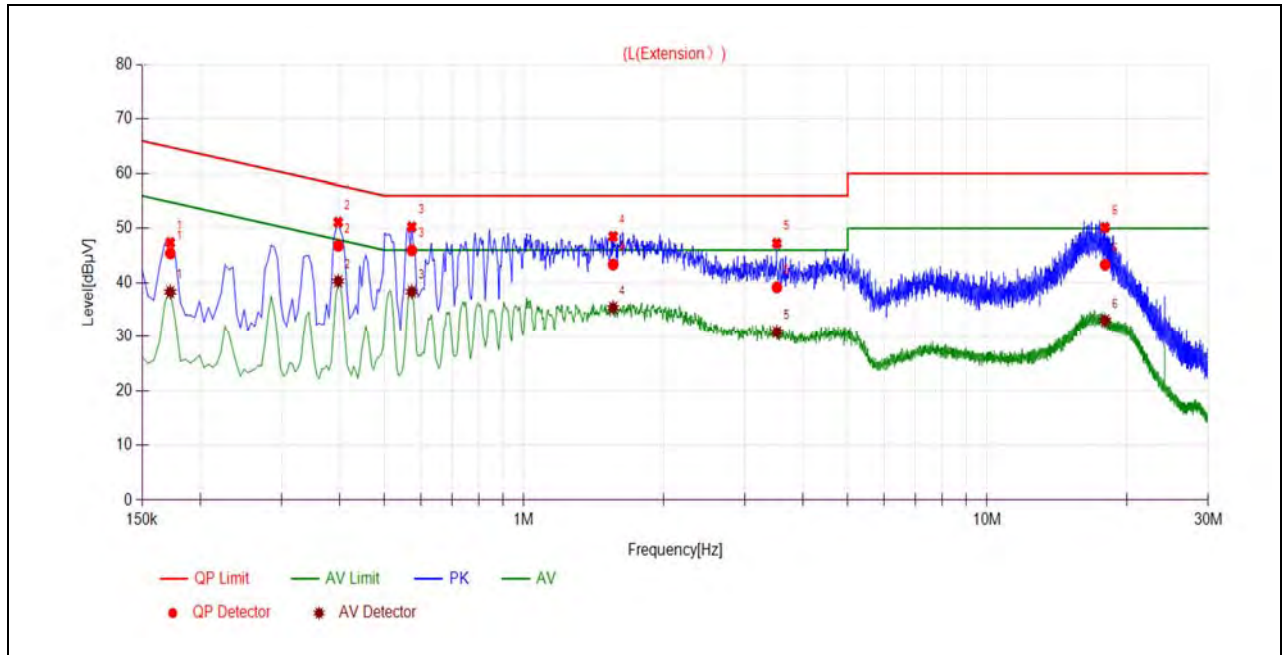
The measurement results are obtained as below:

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

U_R : Receiver Reading

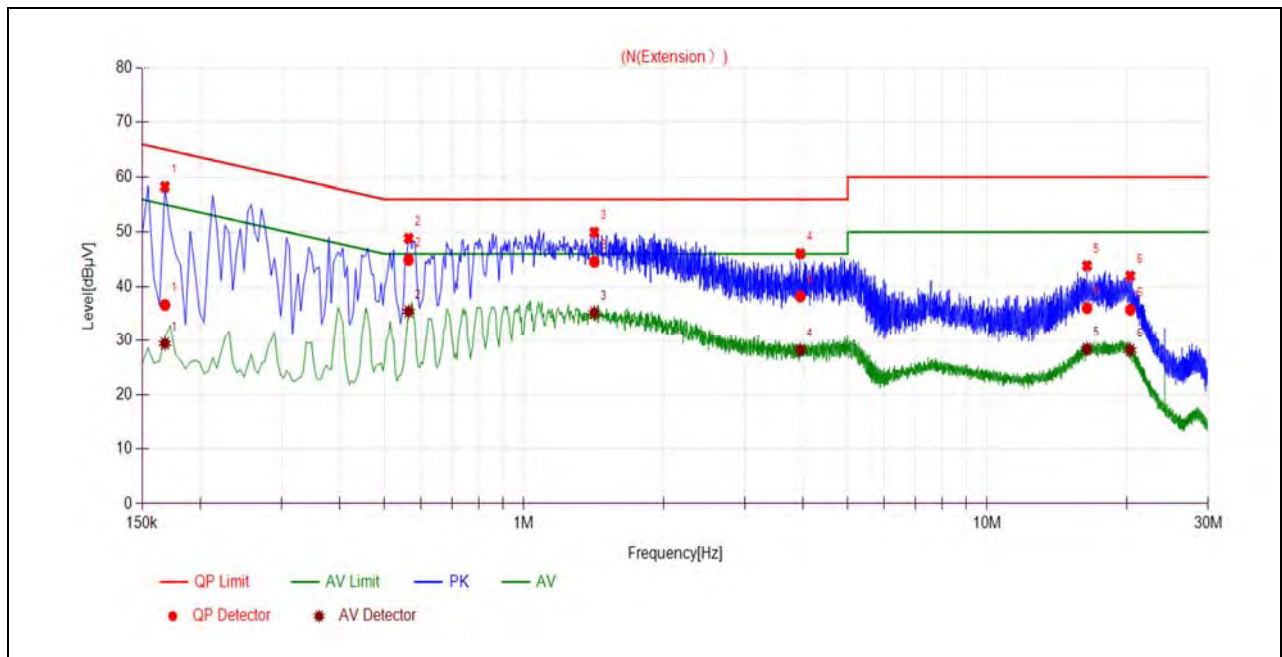
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1725	45.42	38.29	64.84	54.84	Line	PASS
2	0.3975	46.81	40.29	57.91	47.91		PASS
3	0.5730	45.95	38.35	56.00	46.00		PASS
4	1.5586	43.36	35.38	56.00	46.00		PASS
5	3.5163	39.16	30.85	56.00	46.00		PASS
6	17.9663	43.30	33.02	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	0.1680	36.62	29.42	65.06	55.06	Neutral	PASS
2	0.5639	44.92	35.43	56.00	46.00		PASS
3	1.4190	44.55	35.19	56.00	46.00		PASS
4	3.9522	38.21	28.21	56.00	46.00		PASS
5	16.4249	36.05	28.41	60.00	50.00		PASS
6	20.3621	35.76	28.22	60.00	50.00		PASS



A.7. Restricted Frequency Bands

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

The measurement results are obtained as below:

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

A_T : Total correction Factor except Antenna

U_R : Receiver Reading

G_{preamp} : Preamplifier Gain

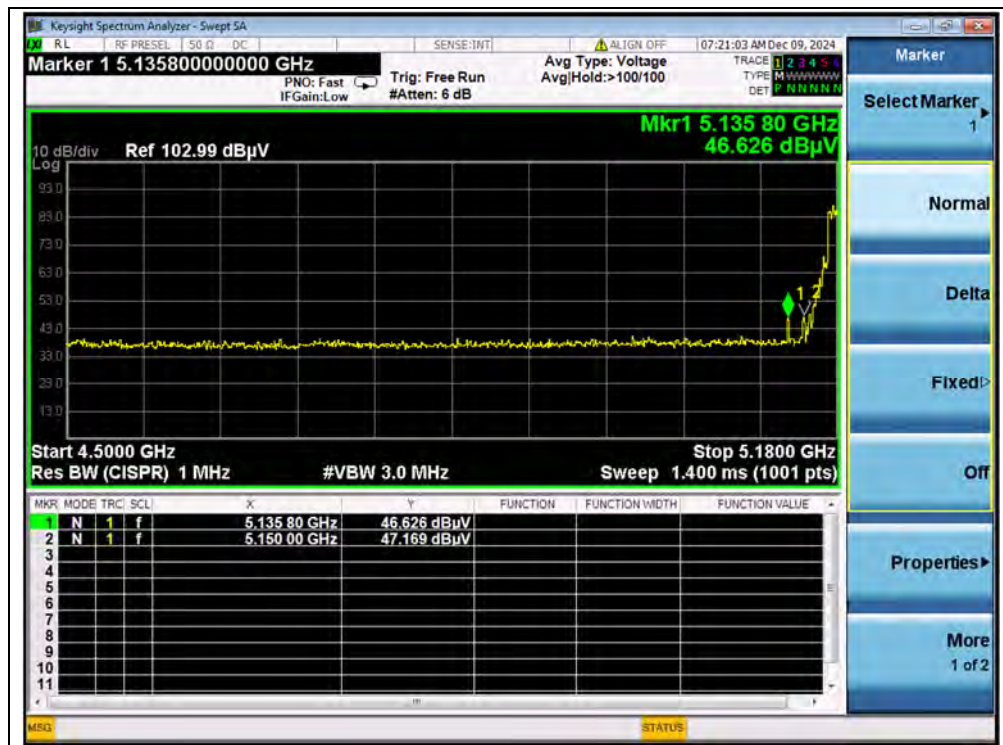
A_{Factor} : Antenna Factor at 3m

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

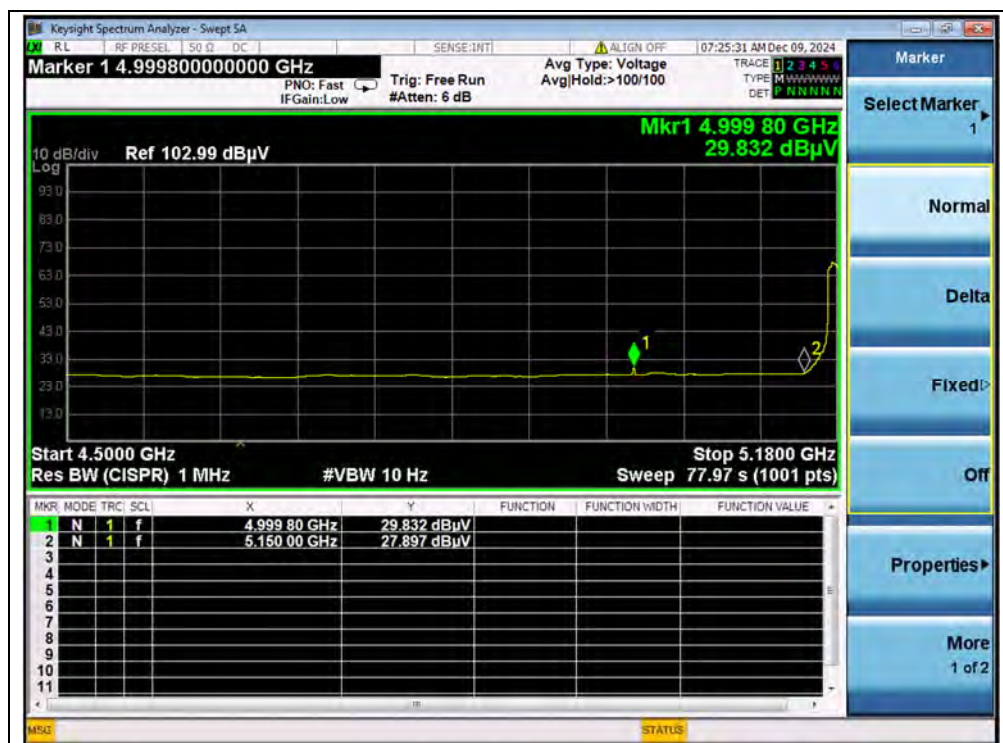
Note 2 All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.

802.11a Mode

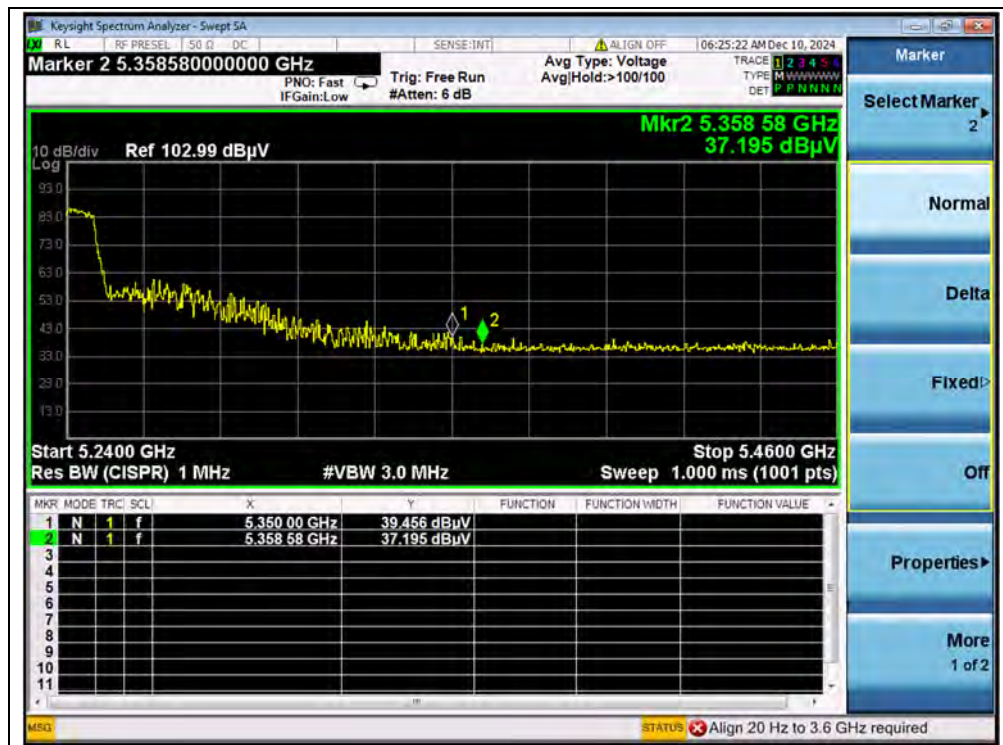
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
36	5150.00	PK	47.17	-16.90	33.10	63.37	74	PASS
36	4999.80	AV	29.83	-16.90	33.10	46.03	54	PASS
48	5350.00	PK	39.46	-16.90	33.10	55.66	74	PASS
48	5396.64	AV	26.71	-16.90	33.10	42.91	54	PASS
149	5725.00	PK	52.40	-14.70	33.50	71.20	122.23	PASS
165	5855.00	PK	53.61	-14.70	33.50	72.41	110.83	PASS



(PEAK, Channel 36, 802.11a)



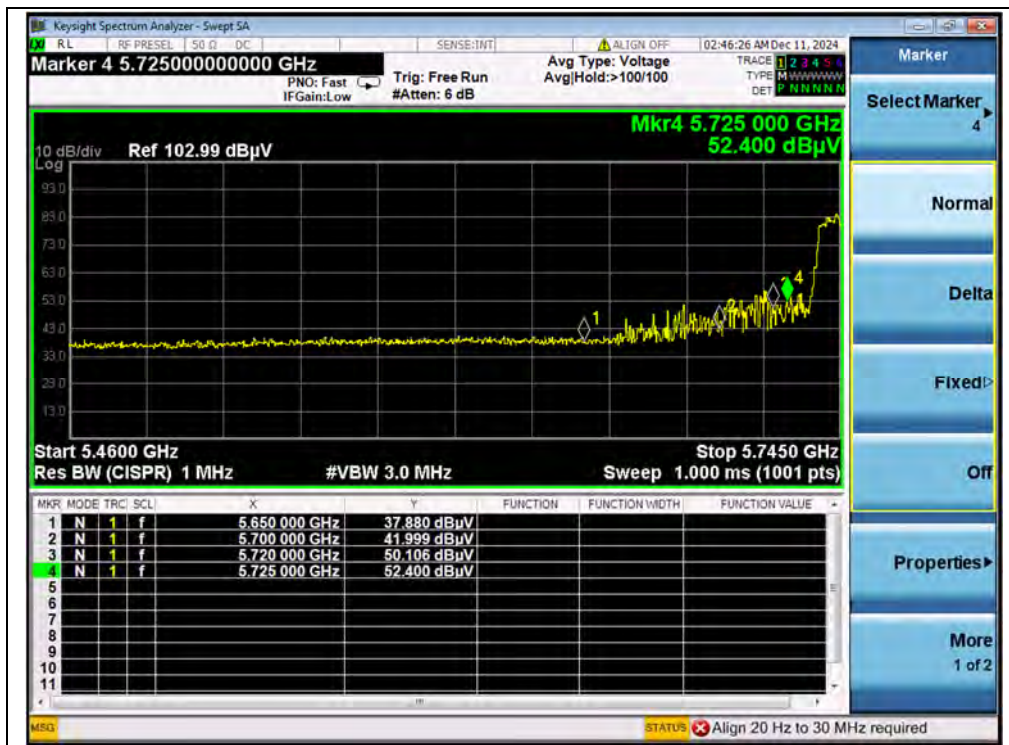
(AVERAGE, Channel 36, 802.11a)



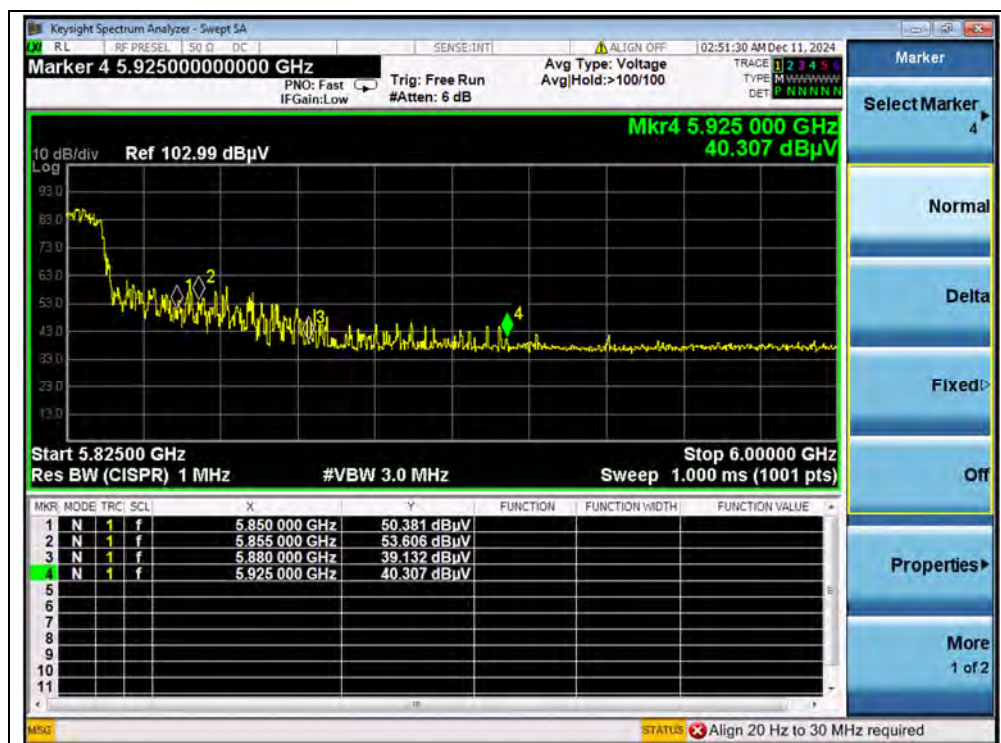
(PEAK, Channel 48, 802.11a)



(AVERAGE, Channel 48, 802.11a)



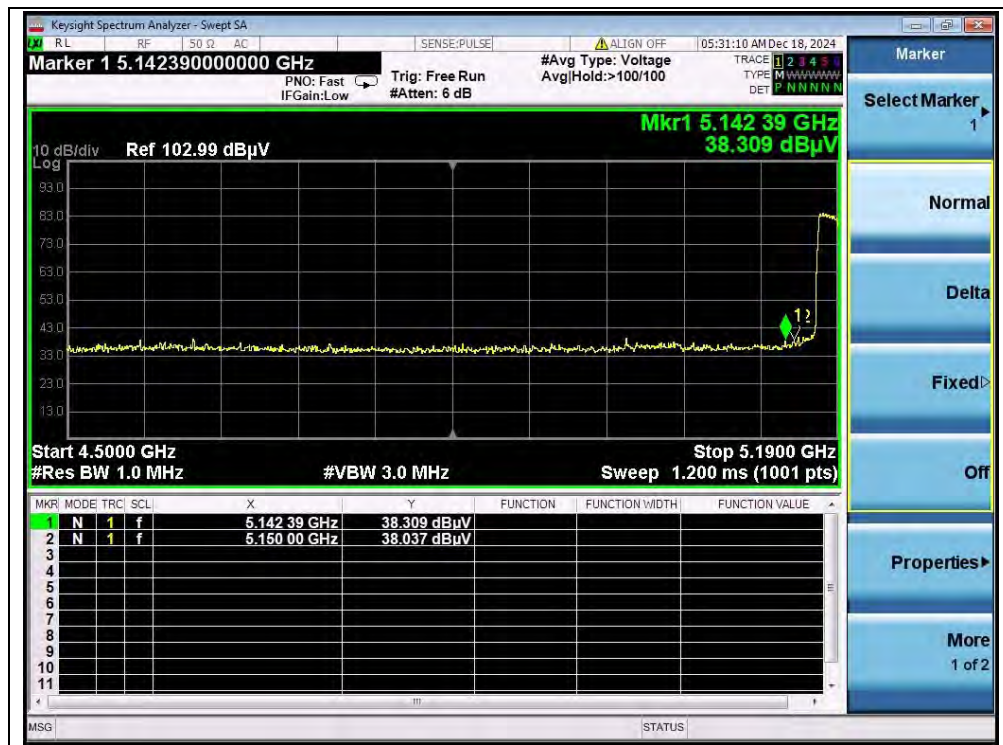
(PEAK, Channel 149, 802.11a)



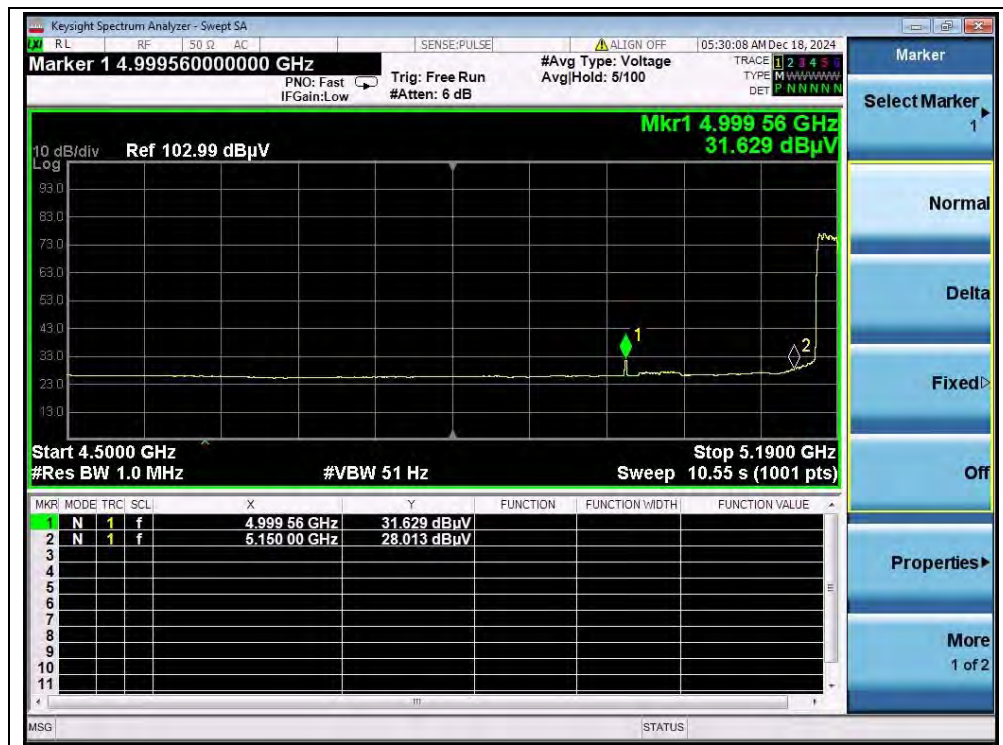
(PEAK, Channel 165, 802.11a)

**802.11n (HT40) Mode**

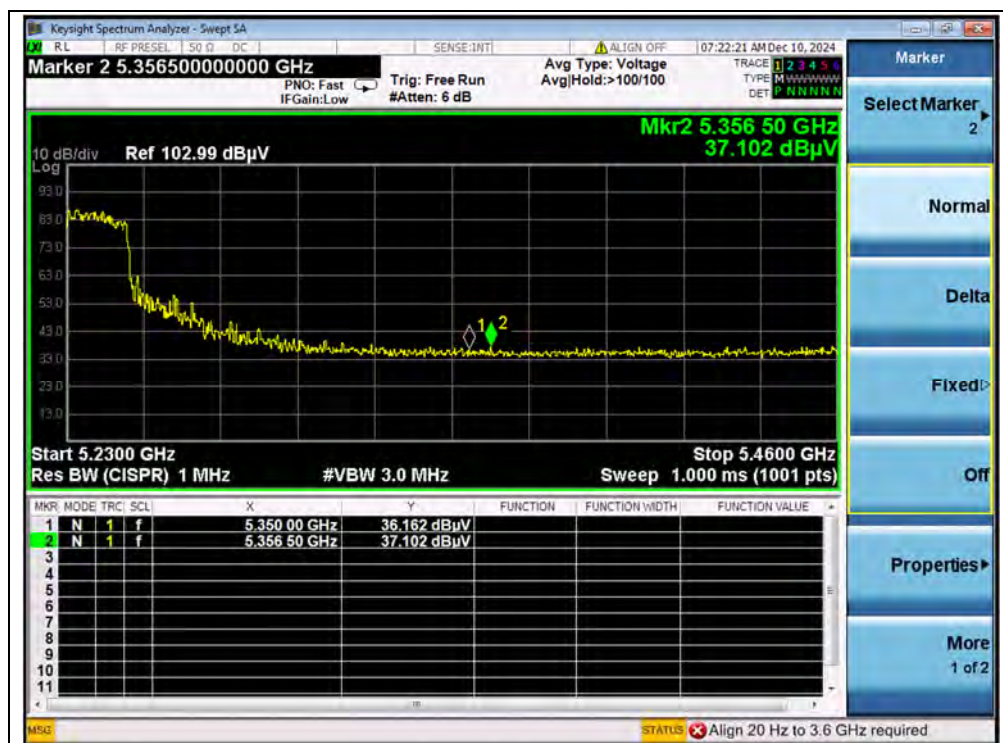
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
38	5142.39	PK	38.31	-18.52	33.10	52.89	74	PASS
38	4999.56	AV	31.63	-18.52	33.10	46.21	54	PASS
46	5356.50	PK	37.10	-18.52	33.10	51.68	74	PASS
46	5387.78	AV	26.22	-18.52	33.10	40.80	54	PASS
151	5725.00	PK	58.40	-18.52	33.10	72.98	122.23	PASS
159	5855.00	PK	48.08	-18.52	33.10	62.66	110.83	PASS



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



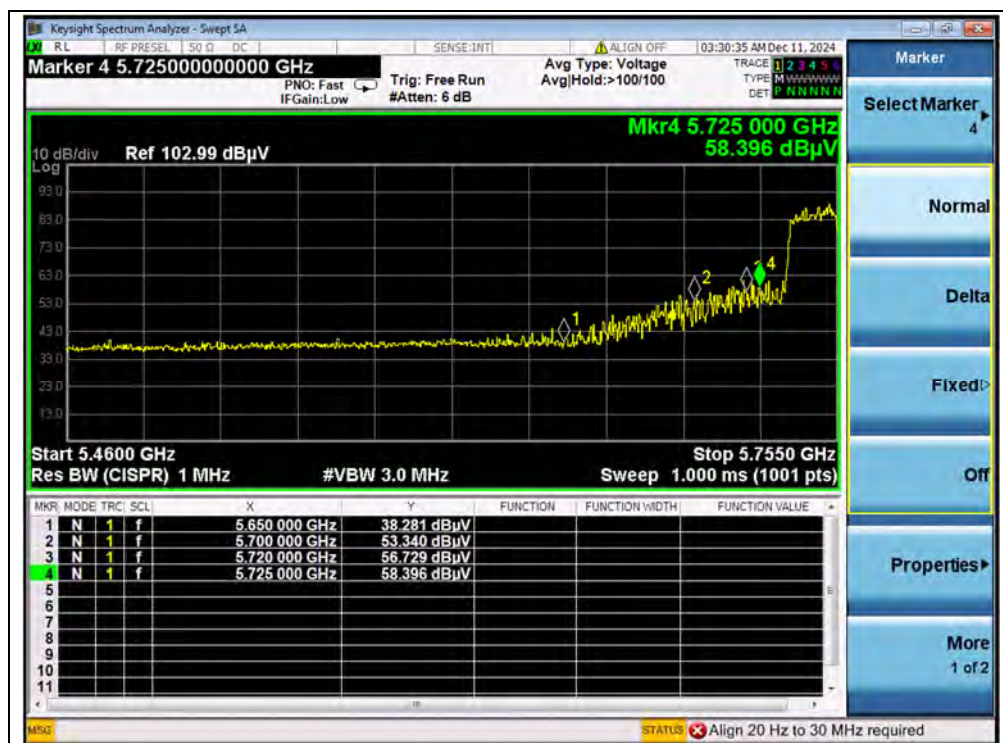
(AVERAGE, Channel 38, 802.11n (HT40))



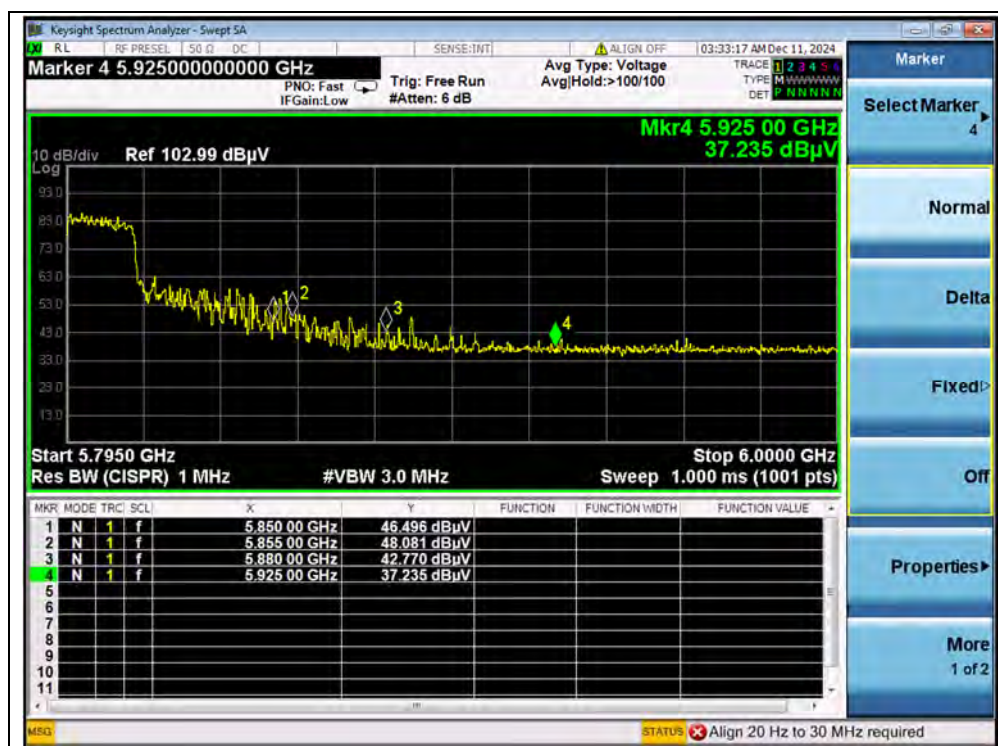
(PEAK, Channel 46, 802.11n (HT40))



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



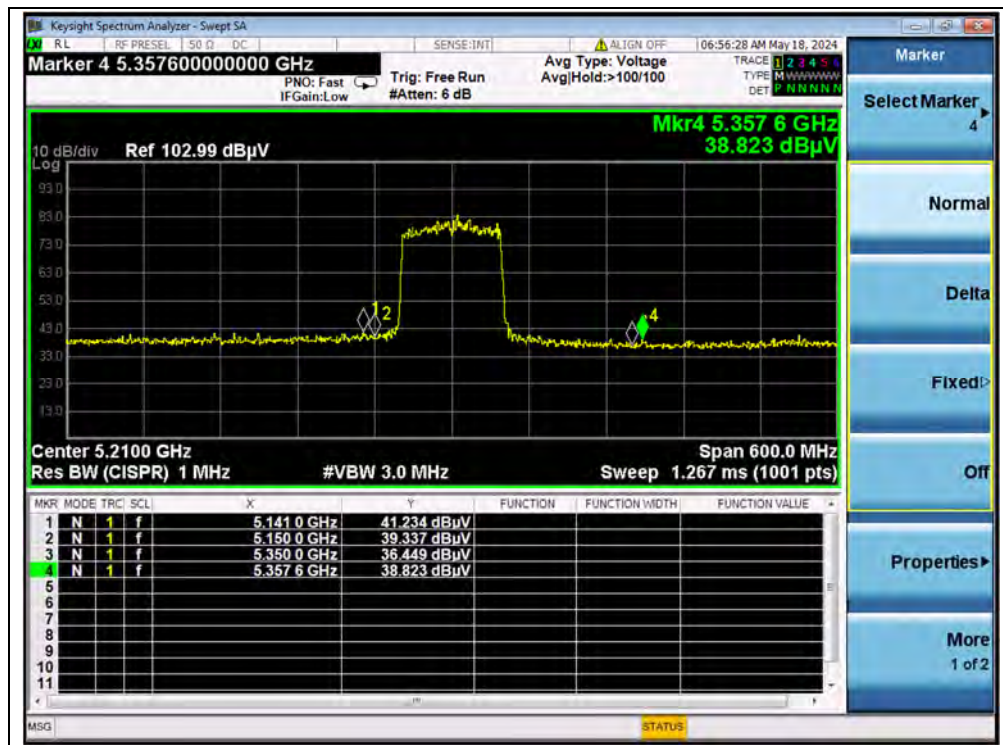
(PEAK, Channel 151, 802.11n (HT40))



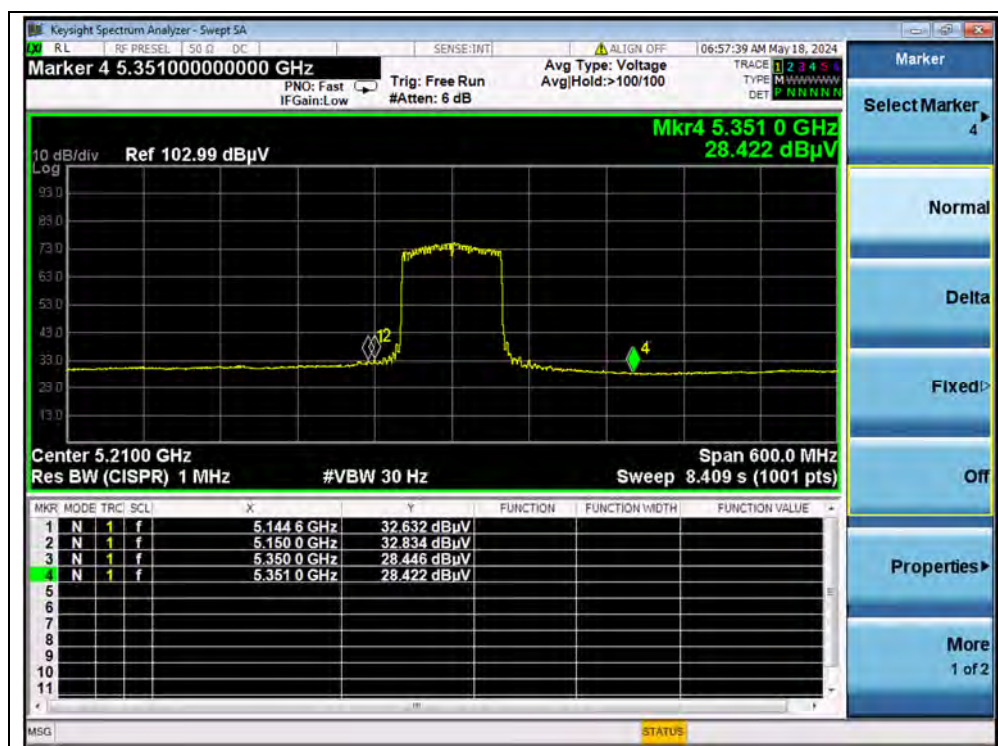
(PEAK, Channel 159, 802.11n (HT40))

**802.11ax (HEW80) Mode**

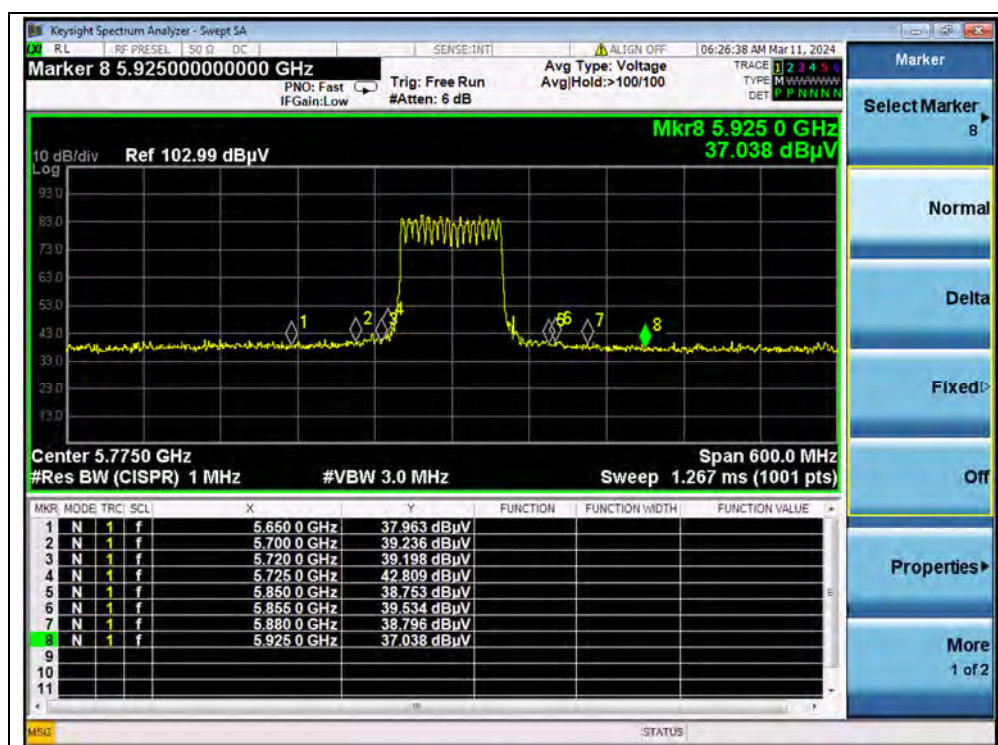
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
42	5141.00	PK	41.23	-16.90	33.10	57.43	74	PASS
42	5150.00	AV	32.83	-16.90	33.10	49.03	54	PASS
42	5357.60	PK	38.82	-16.90	33.10	55.02	74	PASS
42	5350.00	AV	28.45	-16.90	33.10	44.65	54	PASS
155	5725.00	PK	42.81	-14.70	33.50	61.61	122.23	PASS
155	5855.00	PK	39.53	-14.70	33.50	58.33	110.83	PASS



(PEAK, Channel 42, 802.11ax (HEW80))



(AVERAGE, Channel 42, 802.11ax (HEW80))



(PEAK, Channel 155, 802.11ax (HEW80))



A.8. Radiated Emission

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

The measurement results are obtained as below:

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

A_T : Total correction Factor except Antenna

U_R : Receiver Reading

G_{preamp} : Preamplifier Gain

A_{Factor} : Antenna Factor at 3m

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

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

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

Note3: For the frequency, which started from 18GHz to 40GHz, 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.

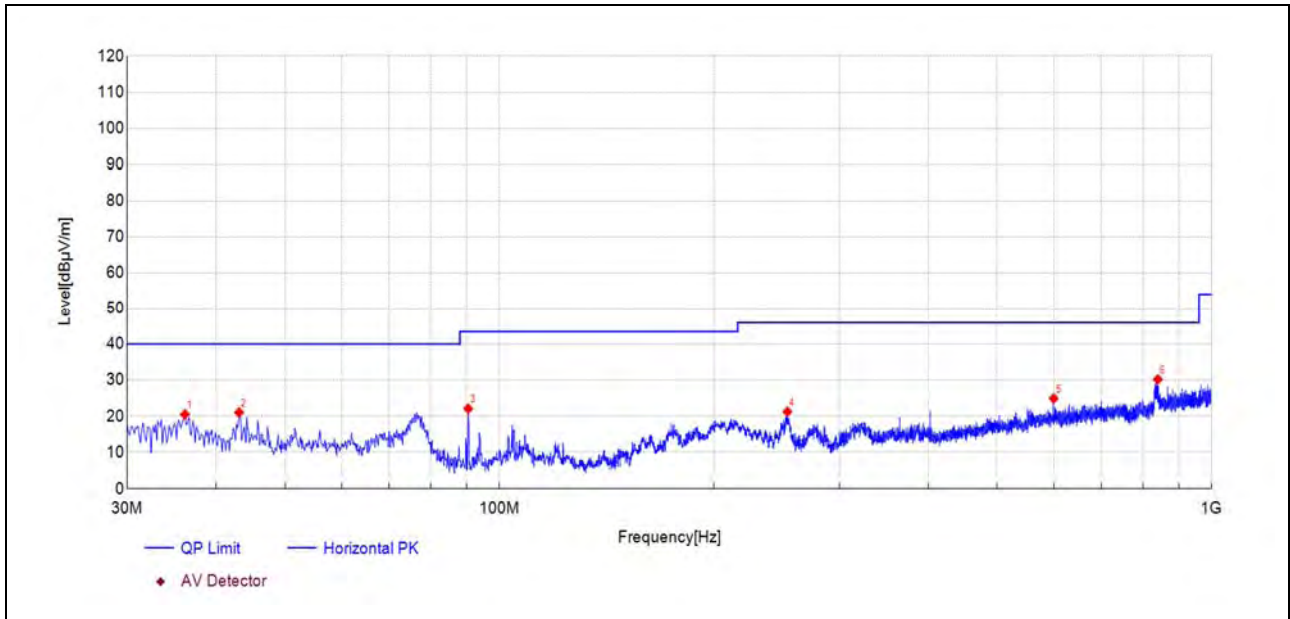
Field strength of fundamental:

Frequency (MHz)	Reading_Peak (dB μ V/m)	Antenna Factor (dB)	Path Loss (dB)	Final_Peak (dB μ V/m)	Antenna Polarity
5173.00	81.94	33.10	-18.52	96.52	Horizontal

The field strength (the lowest) of fundamenta is more than 20dB higher than the unwanted emissions, in accordance with FCC part 15.215(b).

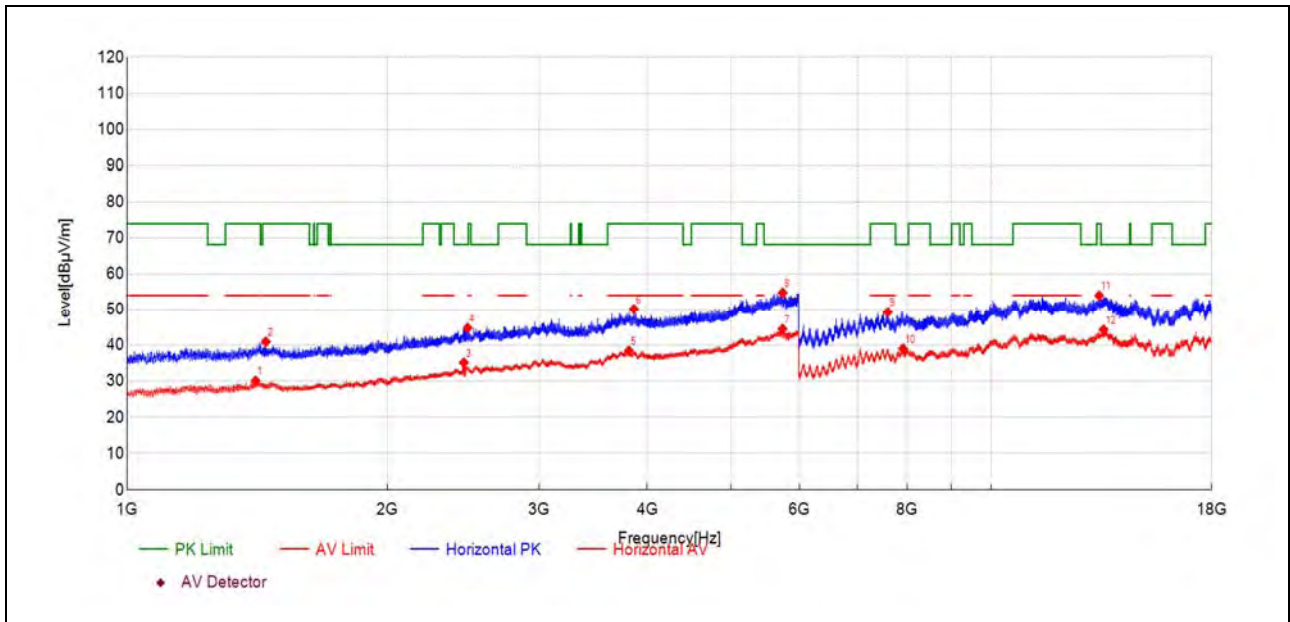
**802.11a Mode**

Plot for Channel 36



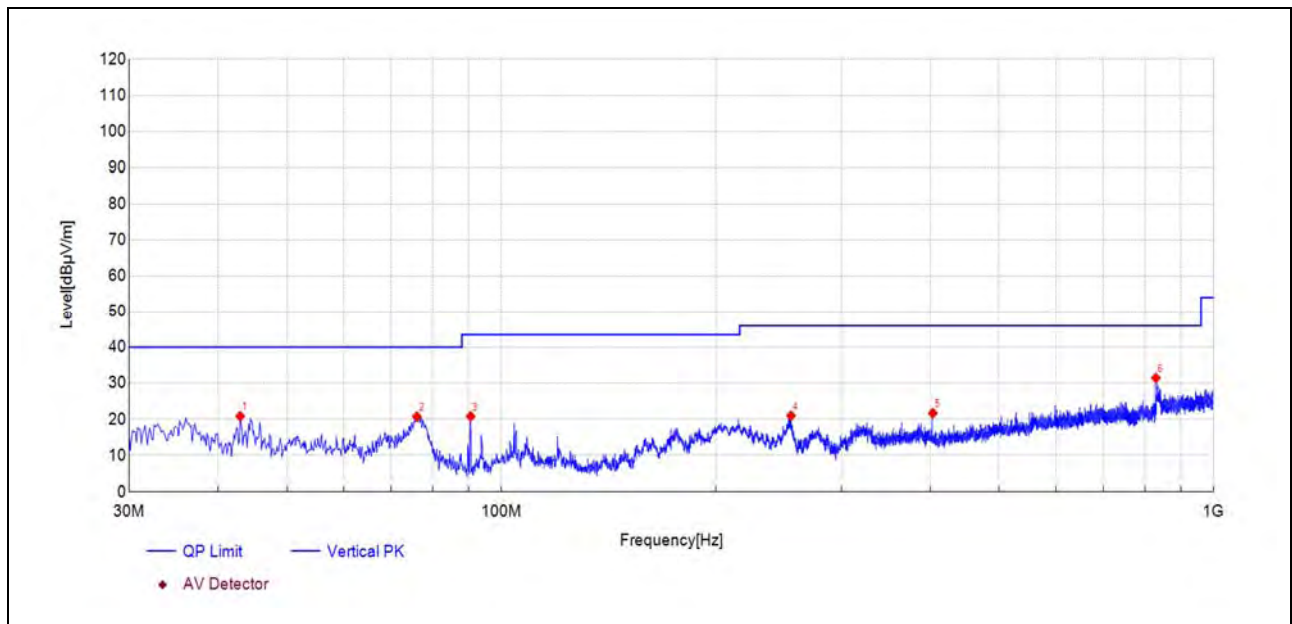
(Antenna Horizontal, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
36.18	50.0	20.48	-29.530	40.00	19.52	150	250	PK	PASS
43.10	49.0	21.03	-28.010	40.00	18.97	150	210	PK	PASS
90.39	53.6	22.06	-31.490	43.50	21.44	150	240	PK	PASS
253.61	48.5	21.22	-27.290	46.00	24.78	150	240	PK	PASS
599.95	41.8	24.91	-16.850	46.00	21.09	150	10	PK	PASS
839.93	44.3	30.18	-14.090	46.00	15.82	150	140	PK	PASS



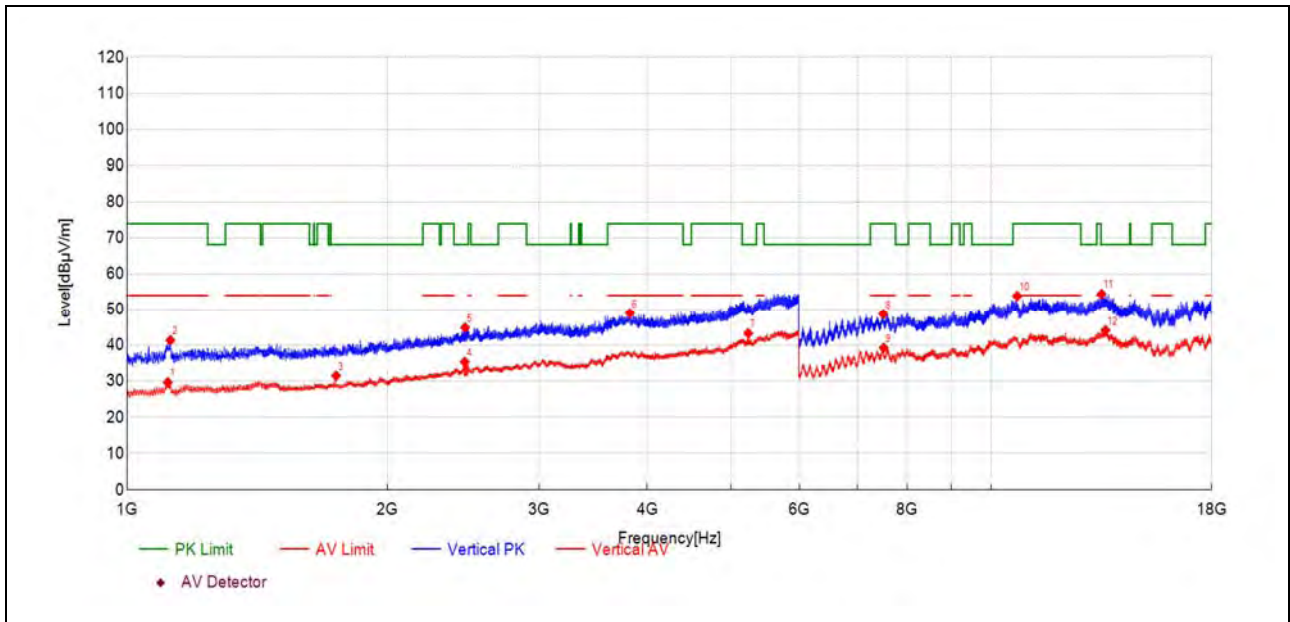
(Antenna Horizontal, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
1408.60	30.0	30.10	0.100	54.00	23.90	150	60	AV	PASS
1447.53	40.6	40.98	0.430	74.00	33.02	150	250	PK	PASS
2453.68	28.6	35.15	6.540	-	-	150	250	AV	N/A
2478.68	38.3	44.83	6.580	68.23	23.40	150	170	PK	PASS
3808.06	26.8	38.45	11.660	54.00	15.55	150	310	AV	PASS
3860.20	38.6	50.17	11.620	74.00	23.83	150	320	PK	PASS
5736.05	25.2	44.56	19.410	-	-	150	30	AV	N/A
5738.20	35.4	54.77	19.400	68.23	13.46	150	110	PK	PASS
7593.68	43.8	49.32	5.540	74.00	24.68	150	300	PK	PASS
7906.90	33.4	39.04	5.630	-	-	150	340	AV	N/A
13336.57	37.5	54.01	16.480	74.00	19.99	150	230	PK	PASS
13493.77	27.3	44.33	17.030	-	-	150	110	AV	N/A



(Antenna Vertical, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
42.98	48.9	20.86	-28.050	40.00	19.14	150	130	PK	PASS
76.08	53.5	20.72	-32.760	40.00	19.28	150	140	PK	PASS
90.51	52.3	20.80	-31.460	43.50	22.70	150	40	PK	PASS
255.07	48.2	20.98	-27.210	46.00	25.02	150	10	PK	PASS
403.25	44.6	21.69	-22.860	46.00	24.31	150	140	PK	PASS
829.50	46.0	31.47	-14.520	46.00	14.53	150	150	PK	PASS

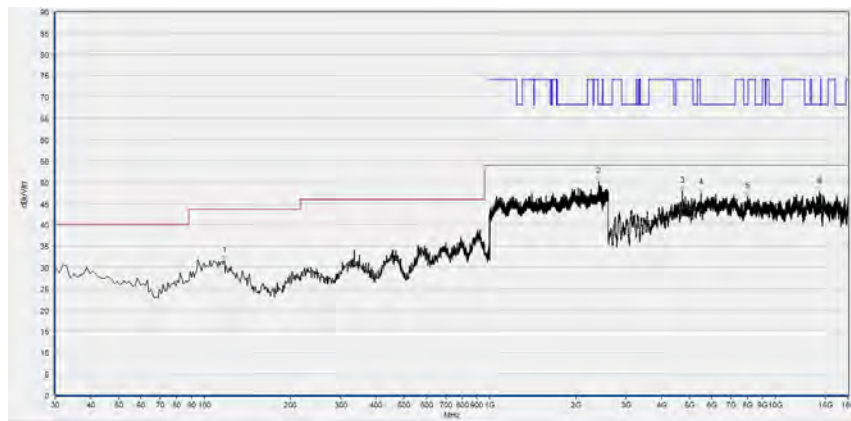


(AntenN/A Vertical, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
1114.65	31.7	29.67	-2.040	54.00	24.33	150	30	AV	PASS
1122.51	43.3	41.36	-1.960	74.00	32.64	150	40	PK	PASS
1745.41	30.6	31.52	0.910	-	-	150	350	AV	N/A
2459.39	28.8	35.35	6.540	-	-	150	100	AV	N/A
2462.60	38.3	44.89	6.550	68.23	23.34	150	100	PK	PASS
3819.49	37.4	48.99	11.640	74.00	25.01	150	20	PK	PASS
5234.59	26.9	43.32	16.430	-	-	150	110	AV	N/A
7501.88	43.2	48.72	5.550	74.00	25.28	150	30	PK	PASS
7510.88	33.8	39.28	5.470	54.00	14.72	150	40	AV	PASS
10719.84	41.5	53.86	12.320	74.00	20.14	150	50	PK	PASS
13422.97	37.9	54.43	16.550	68.23	13.80	150	110	PK	PASS
13562.18	27.1	44.18	17.100	-	-	150	350	AV	N/A

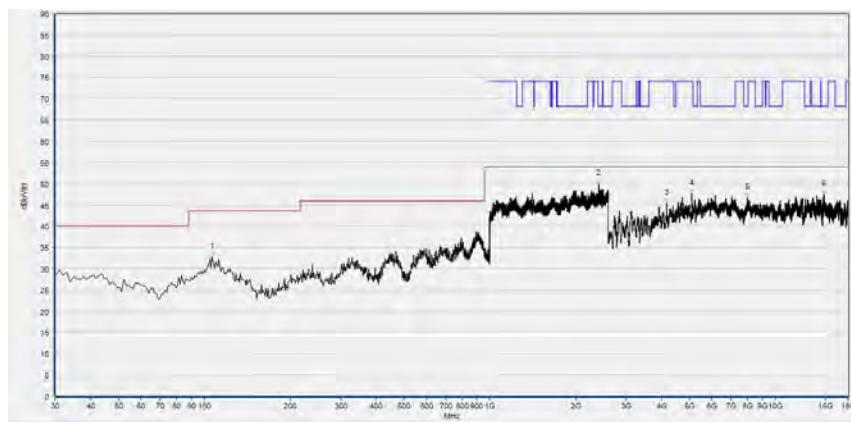


Plot for Channel 44



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
117.300	31.46	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2406.933	50.07	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4734.440	47.97	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5482.880	47.49	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8002.320	46.54	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
14267.040	47.82	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

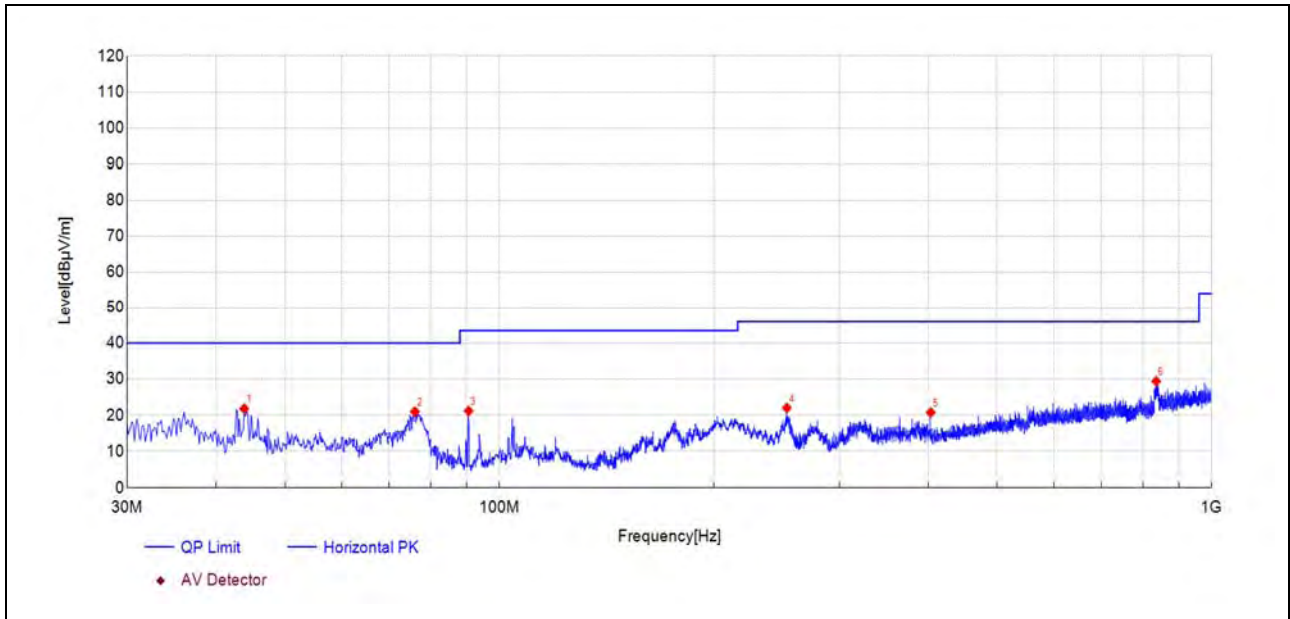
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
106.630	32.63	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2412.800	49.88	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4164.640	45.41	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5097.880	47.56	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7977.680	46.70	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
14775.240	47.39	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

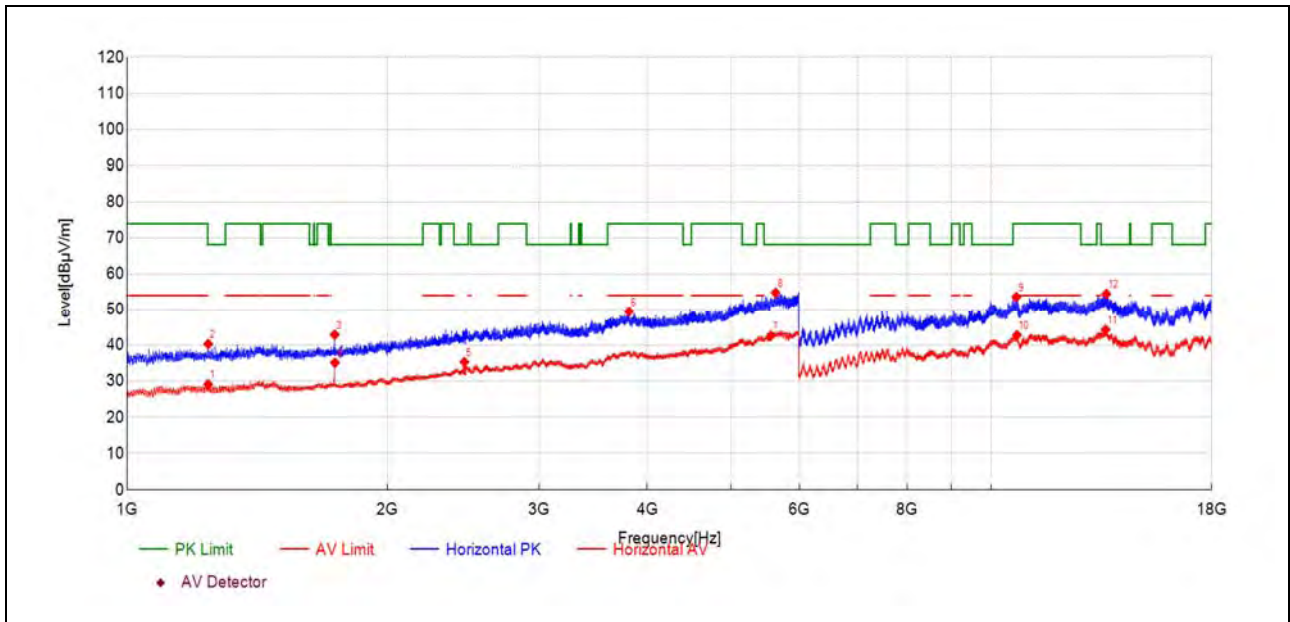
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 48



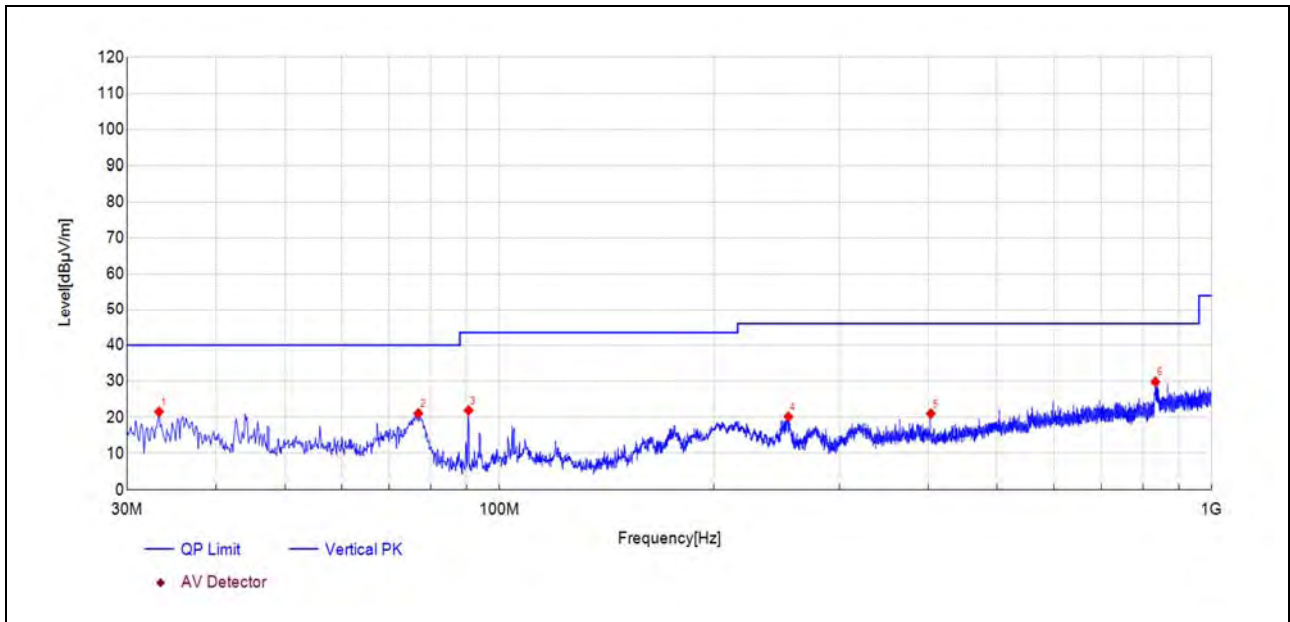
(Antenna Horizontal, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
43.82	49.7	21.81	-27.860	40.00	18.19	150	80	PK	PASS
76.08	53.8	21.00	-32.760	40.00	19.00	150	310	PK	PASS
90.51	52.6	21.17	-31.460	43.50	22.33	150	80	PK	PASS
253.25	49.3	22.02	-27.300	46.00	23.98	150	350	PK	PASS
403.25	43.6	20.75	-22.860	46.00	25.25	150	260	PK	PASS
835.69	43.2	29.43	-13.780	46.00	16.57	150	290	PK	PASS



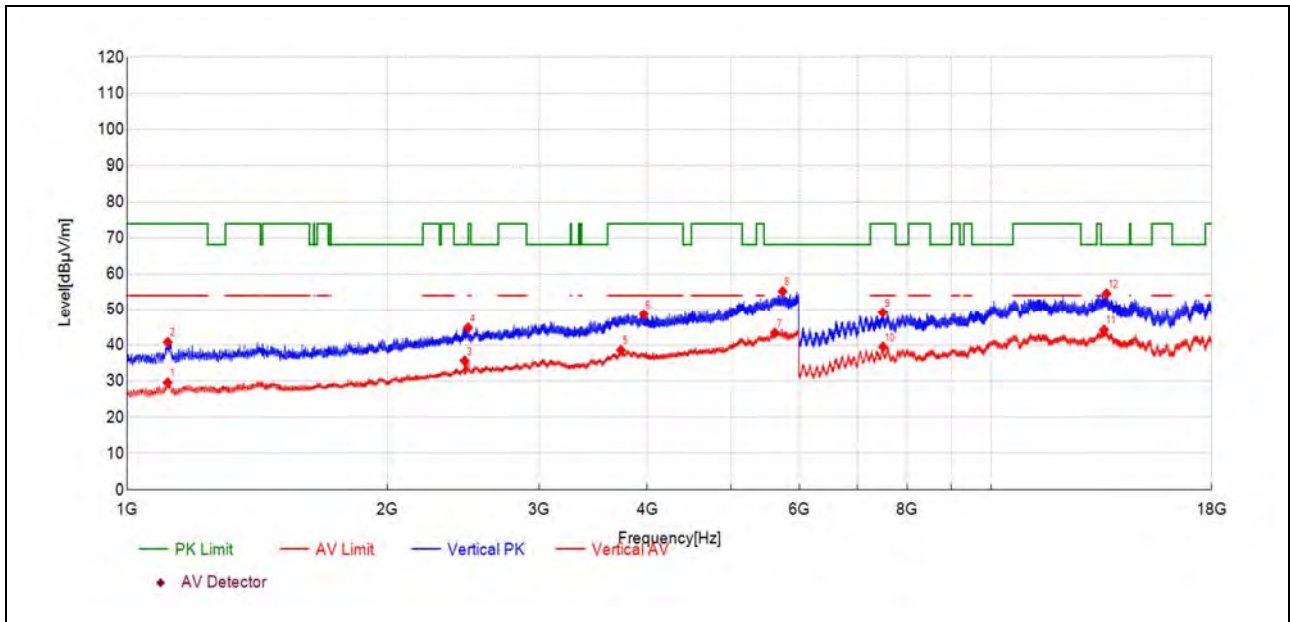
(Antenna Horizontal, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
1241.45	30.3	29.16	-1.120	-	-	150	130	AV	N/A
1241.45	41.5	40.33	-1.120	68.23	27.90	150	300	PK	PASS
1739.34	42.1	42.93	0.870	68.23	25.30	150	140	PK	PASS
1740.41	34.3	35.12	0.870	-	-	150	140	AV	N/A
2456.89	28.8	35.35	6.540	-	-	150	280	AV	NA
3810.20	37.8	49.50	11.660	74.00	24.50	150	20	PK	PASS
5561.40	24.9	42.68	17.760	-	-	150	10	AV	N/A
5631.05	36.1	54.81	18.700	68.23	13.42	150	230	PK	PASS
10697.63	41.1	53.61	12.500	74.00	20.39	150	10	PK	PASS
10711.44	30.4	42.82	12.400	54.00	11.18	150	330	AV	PASS
13565.18	27.2	44.33	17.100	-	-	150	200	AV	N/A
13592.18	37.4	54.48	17.110	68.23	13.75	150	230	PK	PASS



(AntenN/A Vertical, 30MHz to 1GHz)

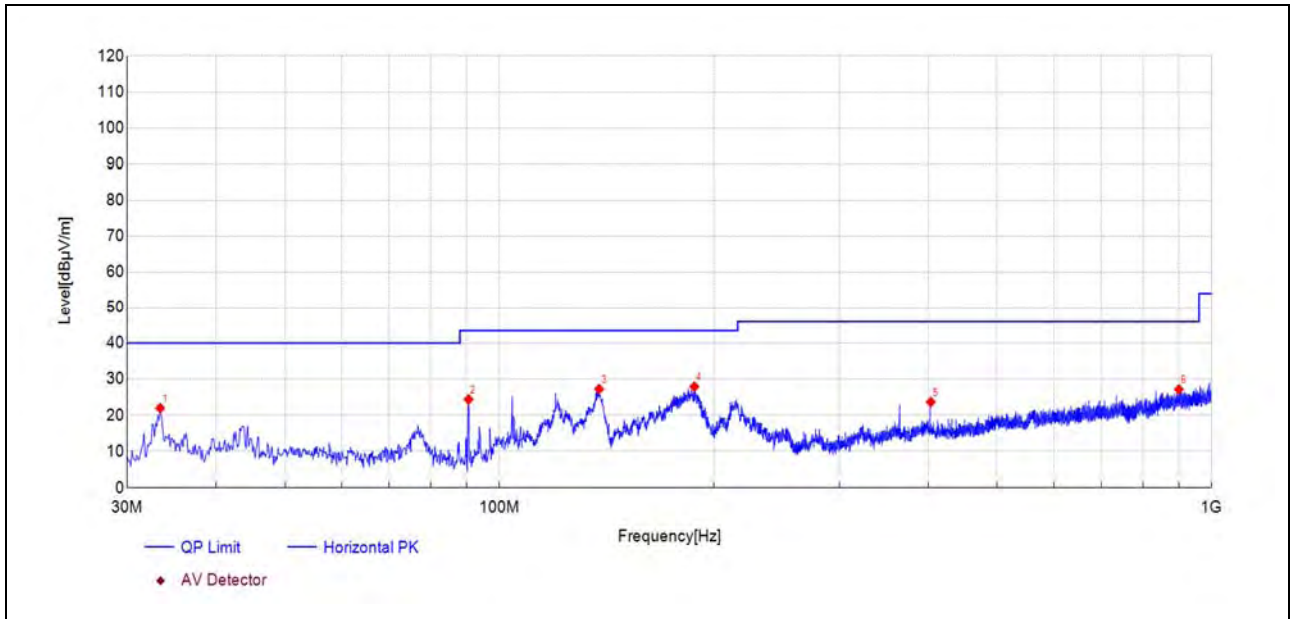
Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
33.27	51.8	21.52	-30.290	40.00	18.48	150	170	PK	PASS
76.93	54.0	21.08	-32.920	40.00	18.92	150	150	PK	PASS
90.51	53.4	21.90	-31.460	43.50	21.60	150	190	PK	PASS
254.46	47.4	20.14	-27.230	46.00	25.86	150	210	PK	PASS
403.25	43.9	21.00	-22.860	46.00	25.00	150	30	PK	PASS
833.62	43.8	29.83	-13.960	46.00	16.17	150	50	PK	PASS



(AntenN/A Vertical, 1GHz to 18GHz)

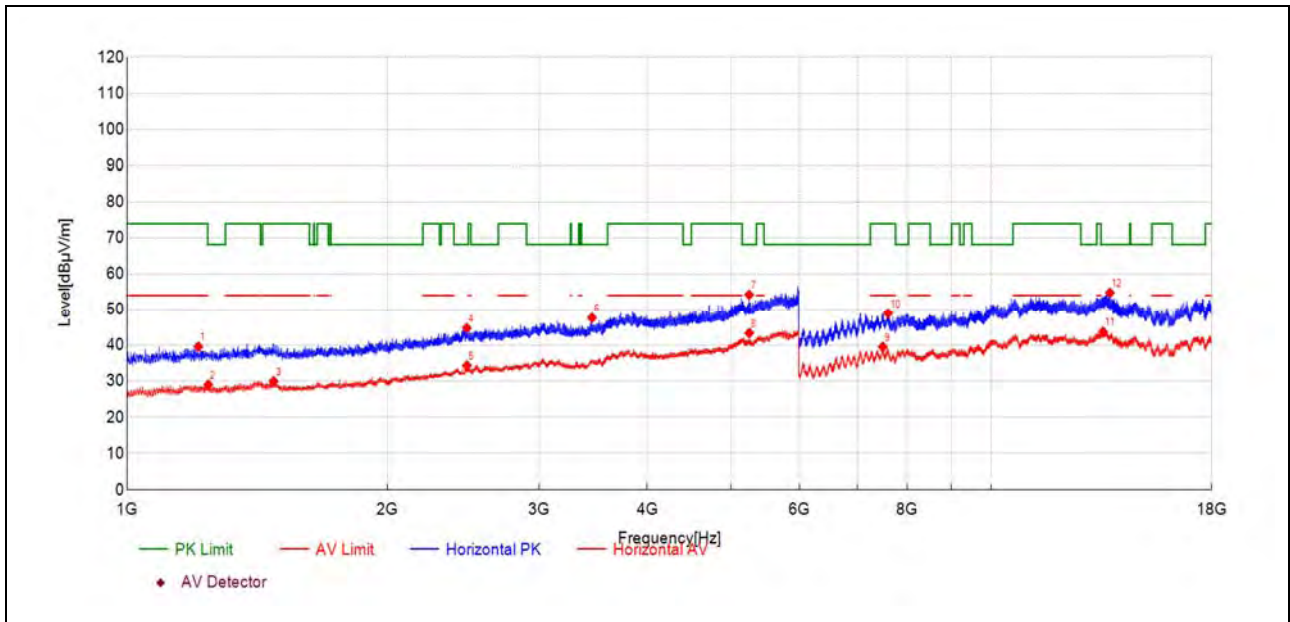
Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
1114.29	31.6	29.60	-2.040	54.00	24.40	150	240	AV	PASS
1114.65	42.9	40.83	-2.040	74.00	33.17	150	40	PK	PASS
2458.68	29.1	35.65	6.550	-	-	150	130	AV	N/A
2481.53	38.3	44.89	6.580	68.23	23.34	150	350	PK	PASS
3729.12	27.5	38.63	11.100	54.00	15.37	150	340	AV	PASS
3963.07	36.6	48.63	12.020	74.00	25.37	150	120	PK	PASS
5619.62	24.8	43.41	18.650	-	-	150	150	AV	N/A
5737.12	35.8	55.19	19.410	68.23	13.04	150	140	PK	PASS
7491.67	43.7	49.19	5.480	74.00	24.81	150	50	PK	PASS
7496.47	34.0	39.55	5.530	54.00	14.45	150	170	AV	PASS
13508.78	27.2	44.27	17.080	-	-	150	340	AV	N/A
13597.58	37.4	54.55	17.110	68.23	13.68	150	190	PK	PASS

Plot for Channel 149



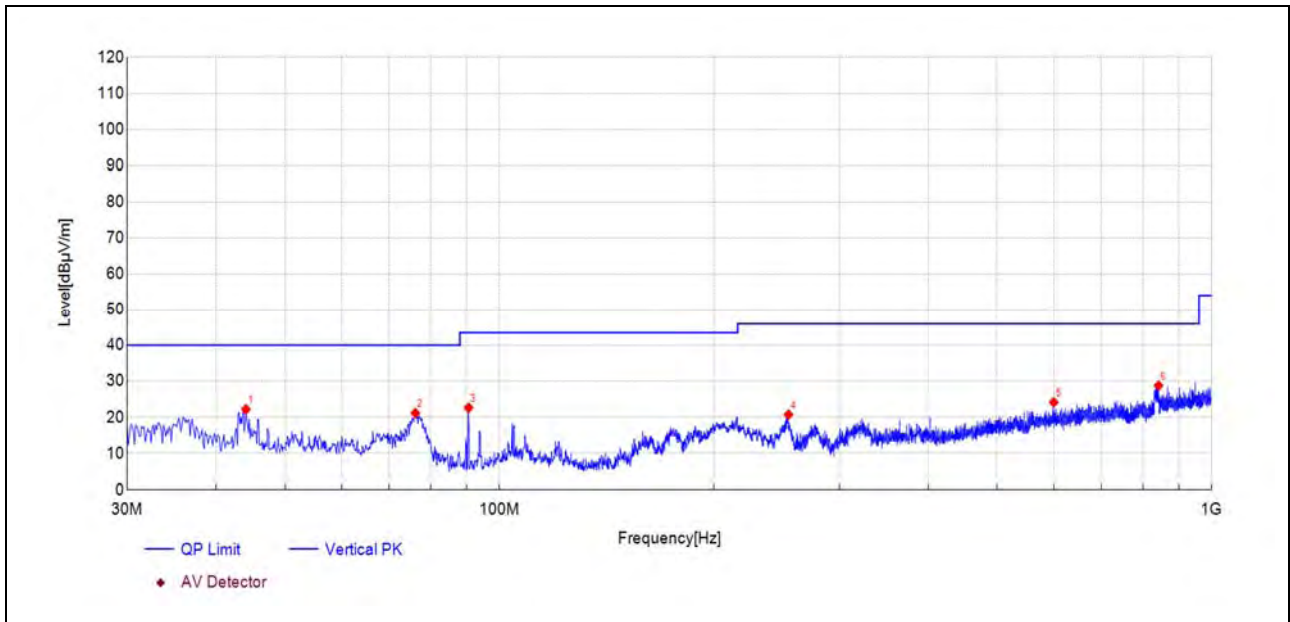
(Antenna Horizontal, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
33.40	52.2	21.98	-30.210	40.00	18.02	150	290	PK	PASS
90.51	55.8	24.37	-31.460	43.50	19.13	150	310	PK	PASS
138.05	59.4	27.26	-32.160	43.50	16.24	150	340	PK	PASS
187.77	58.0	27.92	-30.070	43.50	15.58	150	160	PK	PASS
403.25	46.5	23.66	-22.860	46.00	22.34	150	30	PK	PASS
899.23	38.9	27.16	-11.690	46.00	18.84	150	130	PK	PASS



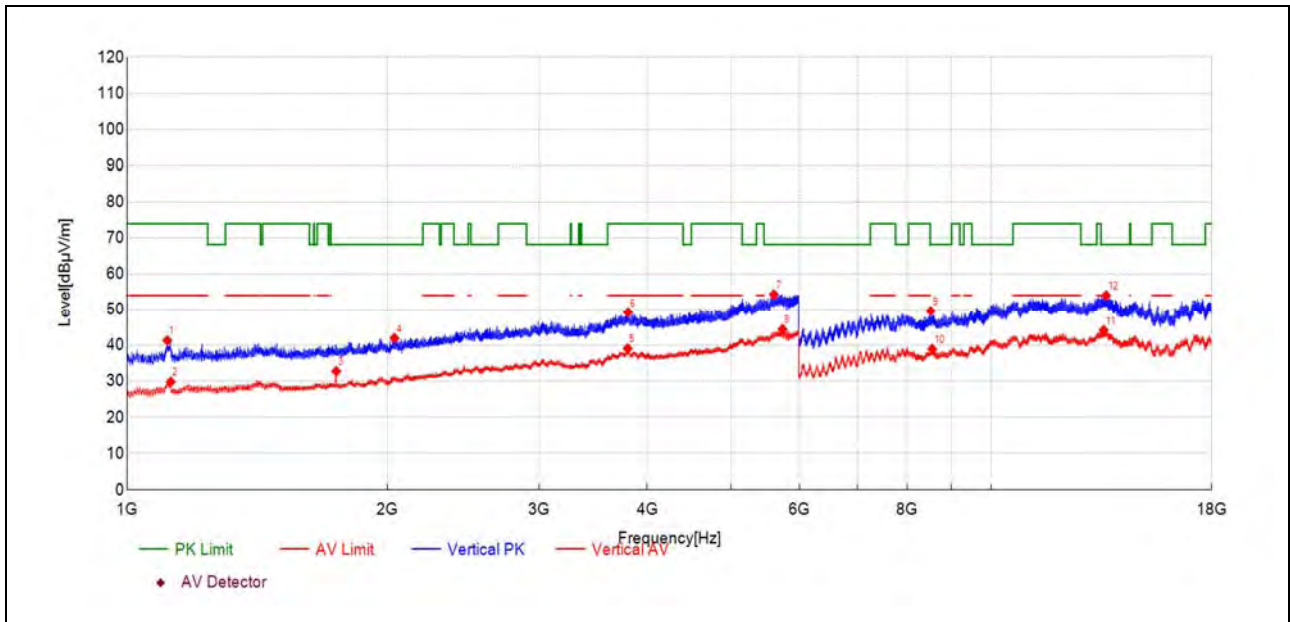
(Antenna Horizontal, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
1209.30	40.4	39.63	-0.800	74.00	34.37	150	100	PK	PASS
1241.80	30.2	29.07	-1.120	-	-	150	190	AV	N/A
1478.25	29.9	29.97	0.070	54.00	24.03	150	240	AV	PASS
2472.96	38.2	44.79	6.570	68.23	23.44	150	40	PK	PASS
2472.96	27.8	34.32	6.570	-	-	150	350	AV	N/A
3451.96	37.7	47.66	9.970	68.23	20.57	150	310	PK	PASS
5248.16	37.6	54.24	16.650	68.23	13.99	150	240	PK	PASS
5248.52	26.7	43.38	16.650	-	-	150	230	AV	N/A
7492.87	34.0	39.54	5.500	54.00	14.46	150	130	AV	PASS
7599.08	43.4	48.97	5.590	74.00	25.03	150	190	PK	PASS
13476.97	26.8	43.75	16.910	-	-	150	120	AV	N/A
13724.19	38.4	54.79	16.400	68.23	13.44	150	90	PK	PASS



(Antenna Vertical, 30MHz to 1GHz)

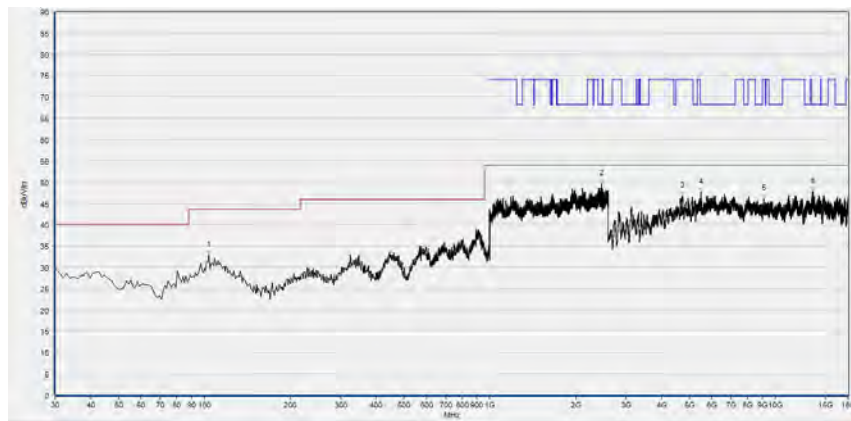
Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
44.07	50.0	22.19	-27.830	40.00	17.81	150	10	PK	PASS
76.20	53.9	21.14	-32.780	40.00	18.86	150	10	PK	PASS
90.51	54.1	22.65	-31.460	43.50	20.85	150	360	PK	PASS
254.58	47.9	20.71	-27.230	46.00	25.29	150	330	PK	PASS
600.07	41.0	24.16	-16.840	46.00	21.84	150	180	PK	PASS
842.36	42.6	28.80	-13.760	46.00	17.20	150	80	PK	PASS



(Antenna Vertical, 1GHz to 18GHz)

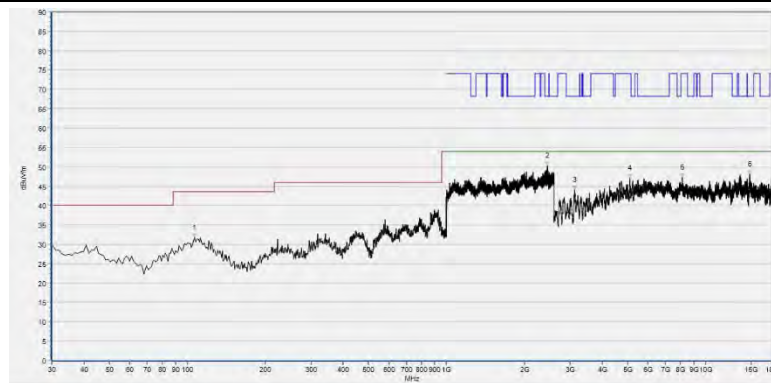
Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
1113.22	43.4	41.32	-2.050	74.00	32.68	150	260	PK	PASS
1123.58	31.8	29.84	-1.950	54.00	24.16	150	360	AV	PASS
1746.48	31.8	32.76	0.920	-	-	150	190	AV	N/A
2039.36	38.8	41.95	3.190	68.23	26.28	150	10	PK	PASS
3796.99	27.4	39.09	11.660	54.00	14.91	150	250	AV	PASS
3800.91	37.6	49.22	11.670	74.00	24.78	150	350	PK	PASS
5605.69	35.7	54.31	18.600	68.23	13.92	150	330	PK	PASS
5736.05	25.1	44.46	19.410	-	-	150	300	AV	N/A
8512.33	43.4	49.63	6.220	68.23	18.60	150	240	PK	PASS
8548.33	32.5	38.91	6.370	-	-	150	250	AV	N/A
13497.37	27.1	44.17	17.050	-	-	150	170	AV	N/A
13585.58	36.9	54.02	17.100	68.23	14.21	150	220	PK	PASS

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
103.720	32.82	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2459.733	49.56	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4731.360	46.77	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5479.800	47.62	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
9117.280	46.04	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13564.800	47.72	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

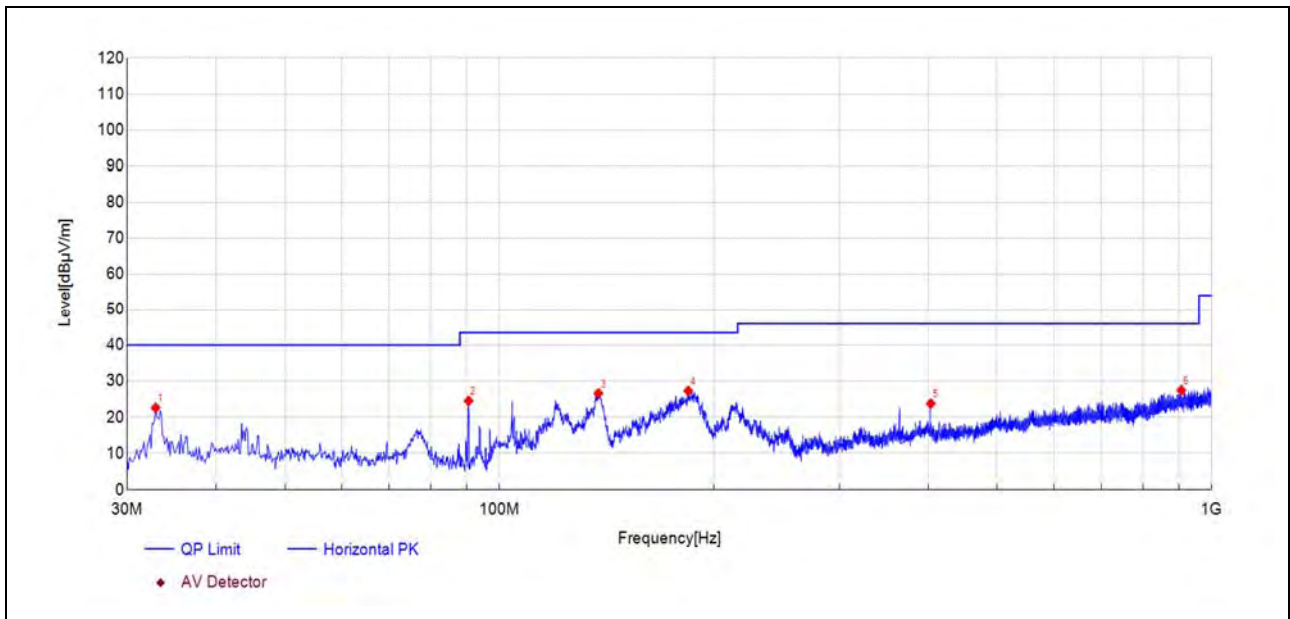


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
106.630	31.68	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2457.067	50.35	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
3129.760	44.01	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5104.040	47.17	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8122.440	47.19	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14824.520	48.18	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

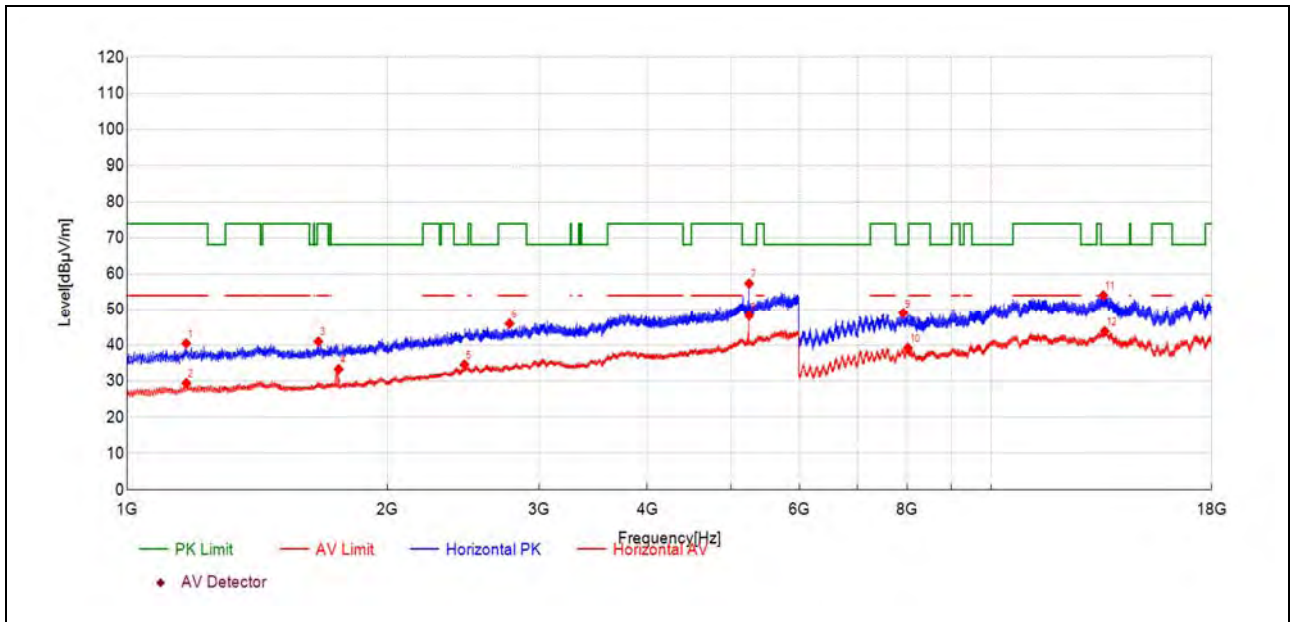


Plot for Channel 165



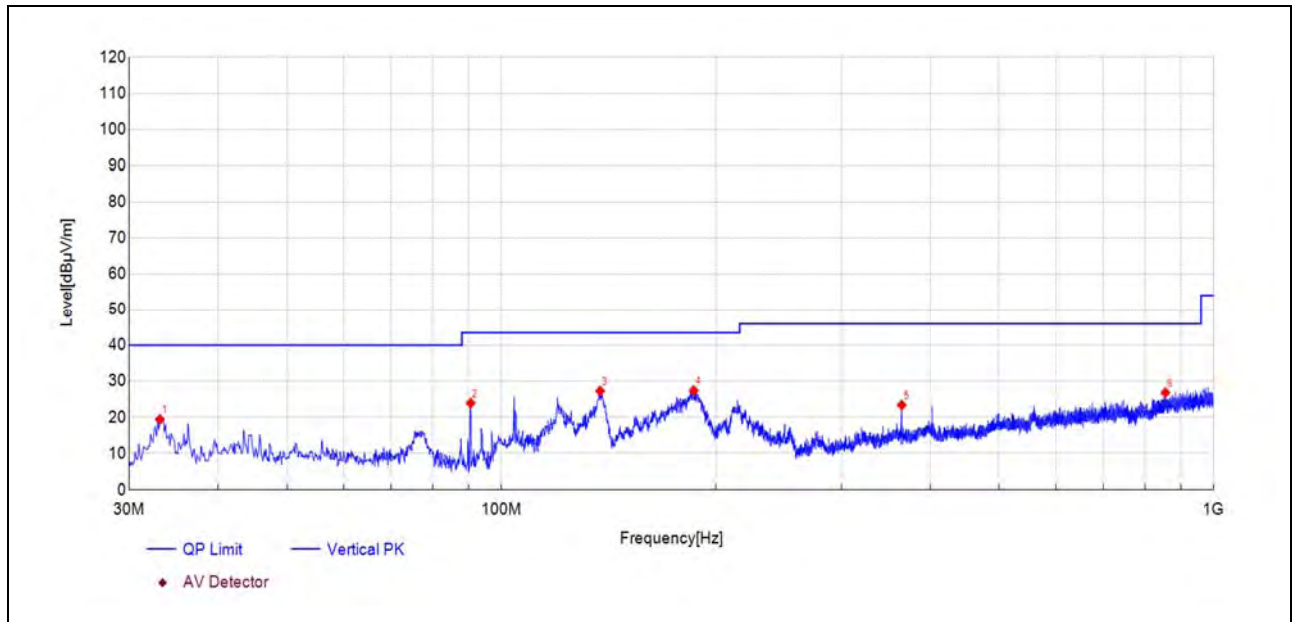
(Antenna Horizontal, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
32.91	53.1	22.60	-30.460	40.00	17.40	150	130	PK	PASS
90.51	56.0	24.52	-31.460	43.50	18.98	150	270	PK	PASS
137.68	58.7	26.63	-32.110	43.50	16.87	150	240	PK	PASS
184.13	57.3	27.30	-30.040	43.50	16.20	150	350	PK	PASS
403.25	46.6	23.76	-22.860	46.00	22.24	150	300	PK	PASS
906.63	39.1	27.47	-11.610	46.00	18.53	150	150	PK	PASS



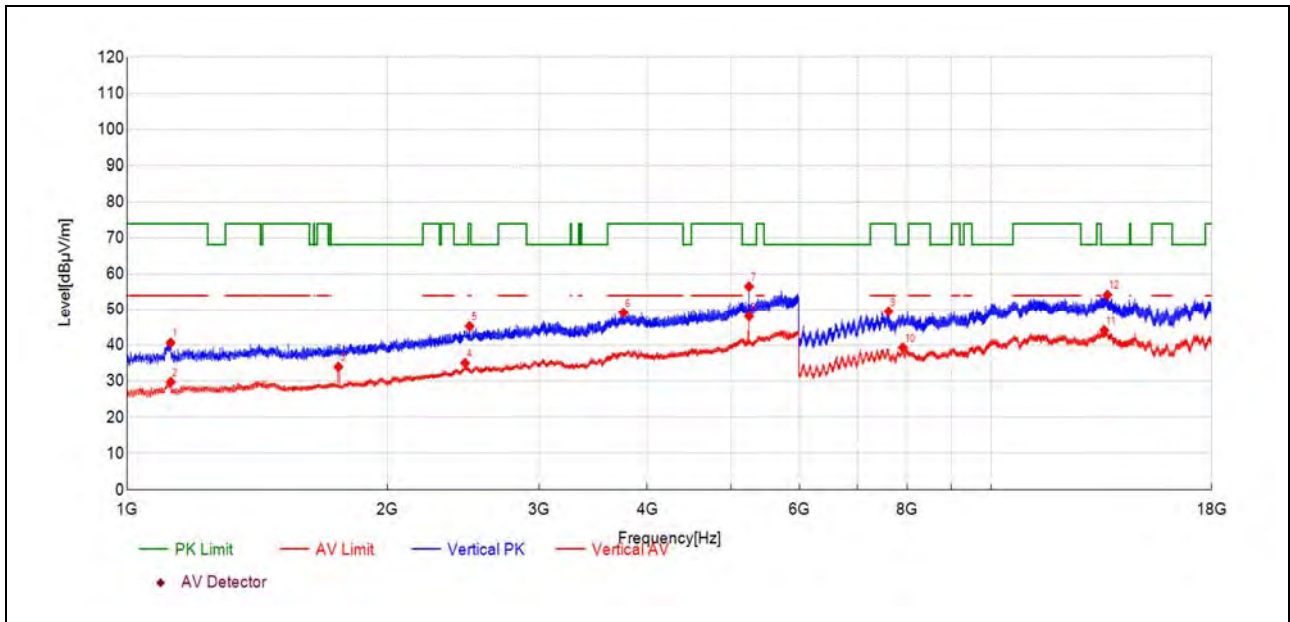
(Antenna Horizontal, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
1170.73	41.8	40.50	-1.290	74.00	33.50	150	330	PK	PASS
1171.08	30.8	29.49	-1.280	54.00	24.51	150	320	AV	PASS
1665.05	40.7	41.05	0.340	74.00	32.95	150	260	PK	PASS
1757.55	32.3	33.32	0.990	-	-	150	200	AV	N/A
2457.25	28.1	34.60	6.540	-	-	150	200	AV	N/A
2770.84	38.9	46.03	7.120	74.00	27.97	150	180	PK	PASS
5246.73	40.8	57.37	16.620	68.23	10.86	150	330	PK	PASS
5247.45	31.7	48.32	16.630	-	-	150	330	AV	N/A
7913.50	43.5	49.05	5.560	68.23	19.18	150	60	PK	PASS
8009.50	33.4	39.20	5.800	-	-	150	280	AV	N/A
13483.57	37.1	54.03	16.960	68.23	14.20	150	50	PK	PASS
13534.58	26.8	43.92	17.090	-	-	150	330	AV	N/A



(AntenN/A Vertical, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
33.15	49.8	19.40	-30.370	40.00	20.60	150	130	PK	PASS
90.51	55.4	23.91	-31.460	43.50	19.59	150	240	PK	PASS
137.56	59.4	27.28	-32.080	43.50	16.22	150	10	PK	PASS
186.19	57.7	27.43	-30.310	43.50	16.07	150	310	PK	PASS
364.81	46.8	23.39	-23.420	46.00	22.61	150	100	PK	PASS
855.45	39.4	26.83	-12.520	46.00	19.17	150	40	PK	PASS



(AntenN/A Vertical, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
1123.22	42.6	40.66	-1.950	74.00	33.34	150	210	PK	PASS
1123.58	31.8	29.80	-1.950	54.00	24.20	150	90	AV	PASS
1756.48	33.0	33.98	0.990	-	-	150	280	AV	N/A
2461.53	28.5	35.02	6.540	-	-	150	130	AV	N/A
2491.54	38.7	45.26	6.600	74.00	28.74	150	100	PK	PASS
3753.77	37.7	49.14	11.420	74.00	24.86	150	20	PK	PASS
5246.37	39.9	56.55	16.620	68.23	11.68	150	270	PK	PASS
5247.45	31.5	48.11	16.630	-	-	150	270	AV	N/A
7608.68	44.0	49.52	5.540	74.00	24.48	150	150	PK	PASS
7905.10	33.7	39.31	5.650	-	-	150	100	AV	N/A
13516.58	27.1	44.14	17.080	-	-	150	100	AV	N/A
13633.58	37.4	54.20	16.800	68.23	14.03	150	120	PK	PASS

END OF REPORT