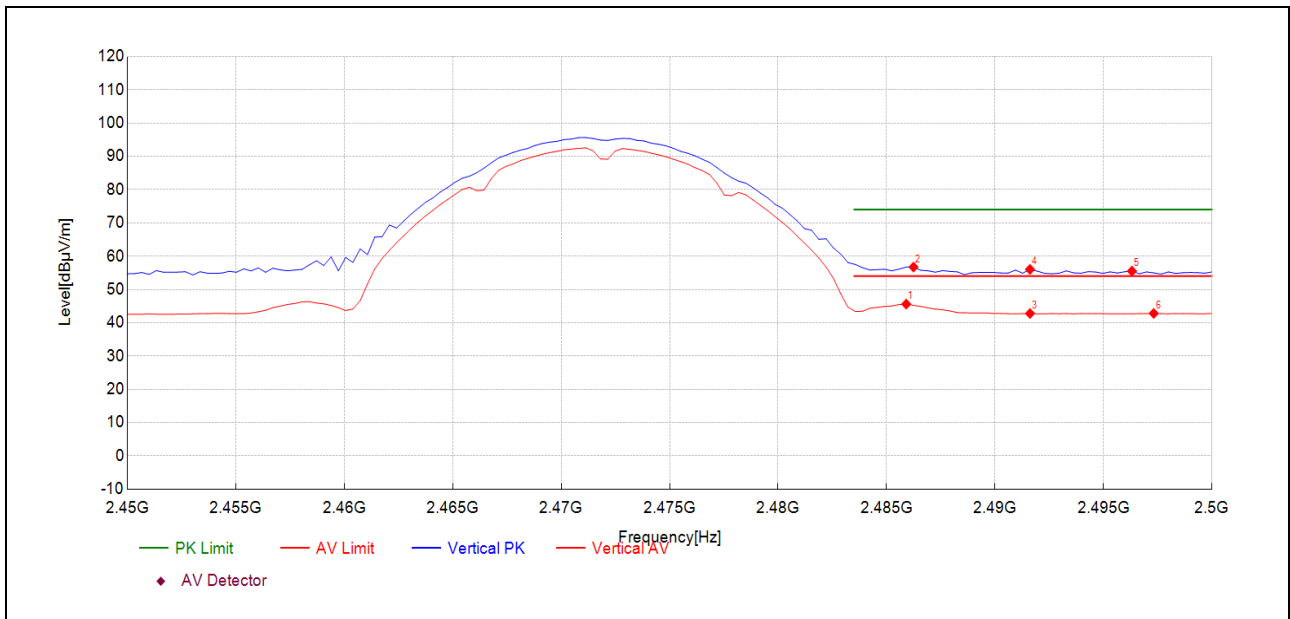




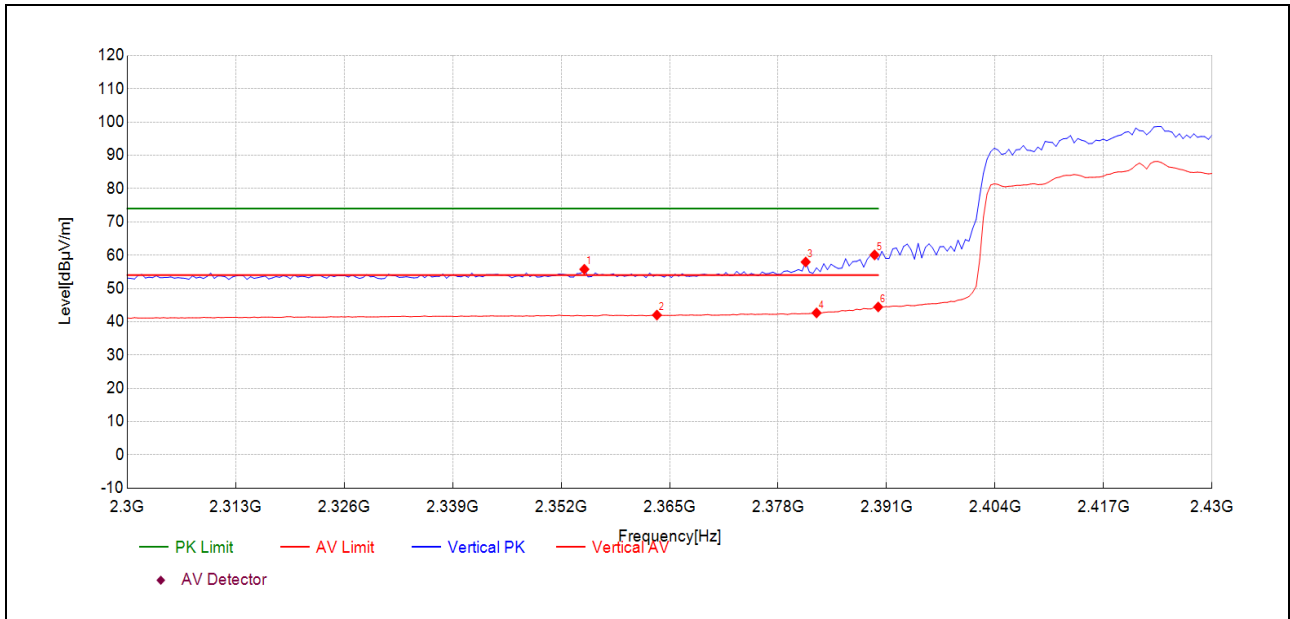
Plot for Channel 13



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2485.91	12.6	45.60	33.030	54.00	8.40	165	112	AV	PASS
2486.24	23.7	56.73	33.030	74.00	17.27	165	133	PK	PASS
2491.61	9.8	42.78	33.020	54.00	11.22	165	358	AV	PASS
2491.61	23.0	56.03	33.020	74.00	17.97	165	10	PK	PASS
2496.31	22.5	55.52	33.010	74.00	18.48	165	112	PK	PASS
2497.32	9.8	42.80	33.010	54.00	11.20	165	112	AV	PASS

**802.11ax (HEW40) Mode**

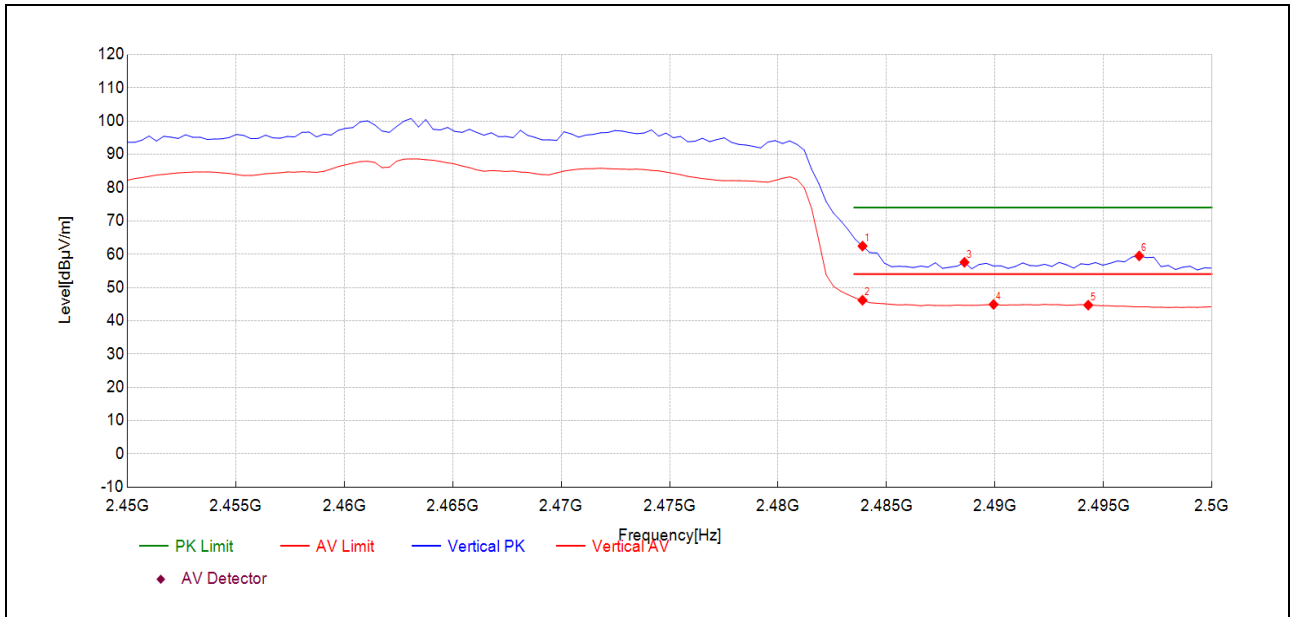
Plot for Channel 3



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2354.78	23.3	55.76	32.420	74.00	18.24	165	281	PK	PASS
2363.48	9.6	42.00	32.450	54.00	12.00	165	104	AV	PASS
2381.30	25.5	57.96	32.510	74.00	16.04	165	57	PK	PASS
2382.61	10.1	42.65	32.520	54.00	11.35	165	104	AV	PASS
2389.57	27.5	60.08	32.540	74.00	13.92	165	57	PK	PASS
2390.00	11.9	44.44	32.540	54.00	9.56	165	104	AV	PASS



Plot for Channel 11



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2483.89	29.4	62.44	33.030	74.00	11.56	165	129	PK	PASS
2483.89	13.1	46.15	33.030	54.00	7.85	165	111	AV	PASS
2488.59	24.5	57.56	33.020	74.00	16.44	165	231	PK	PASS
2489.93	11.9	44.90	33.020	54.00	9.10	165	111	AV	PASS
2494.30	11.7	44.69	33.010	54.00	9.31	165	111	AV	PASS
2496.64	26.5	59.48	33.010	74.00	14.52	165	129	PK	PASS



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.

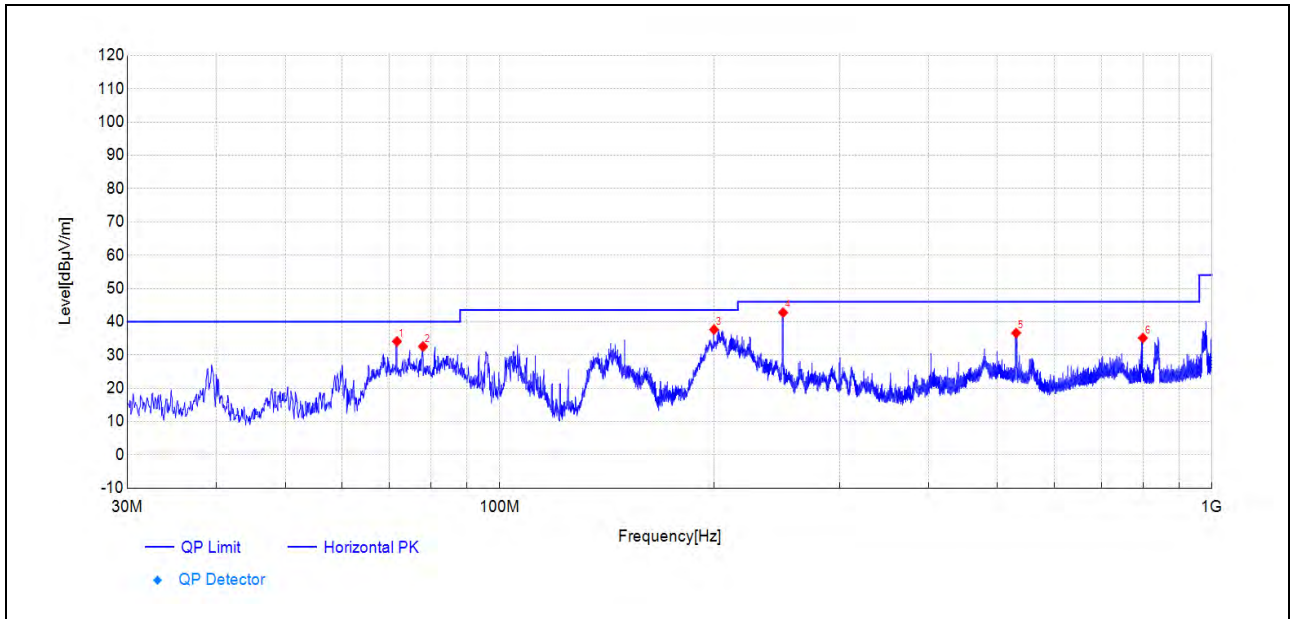
Note2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

Note3: For the frequency, which started from 18GHz to 40GHz harmonic of the highest frequency, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

Note4: All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.

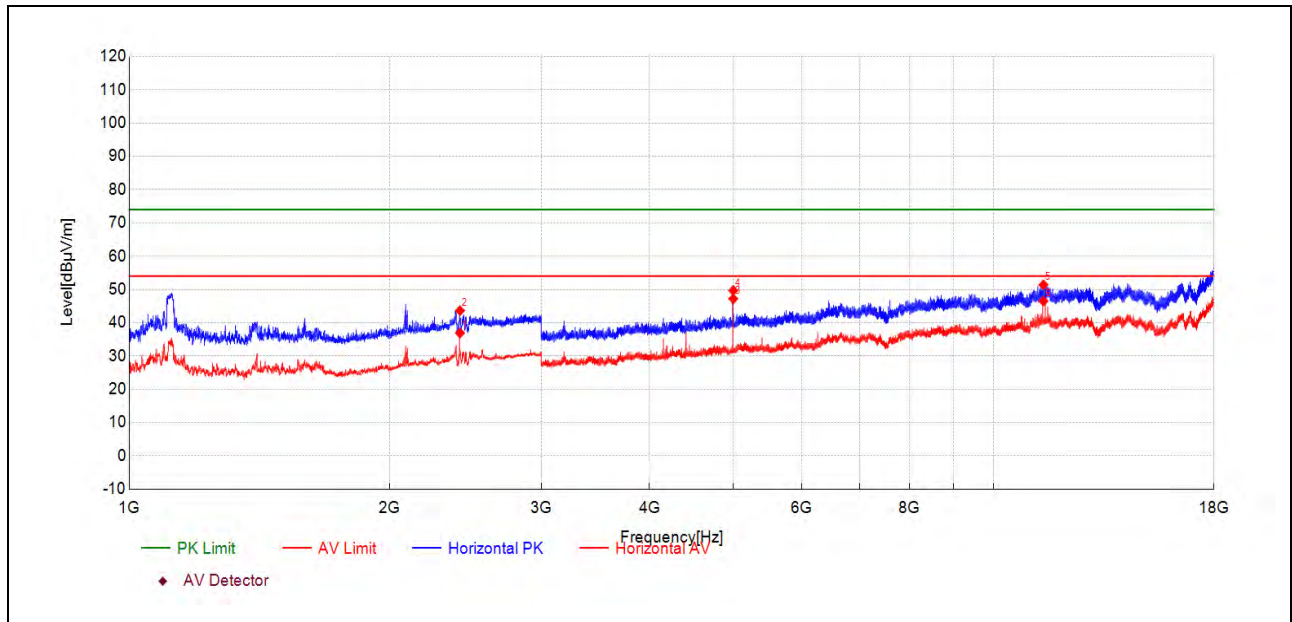
**802.11b Mode**

Plot for Channel 1



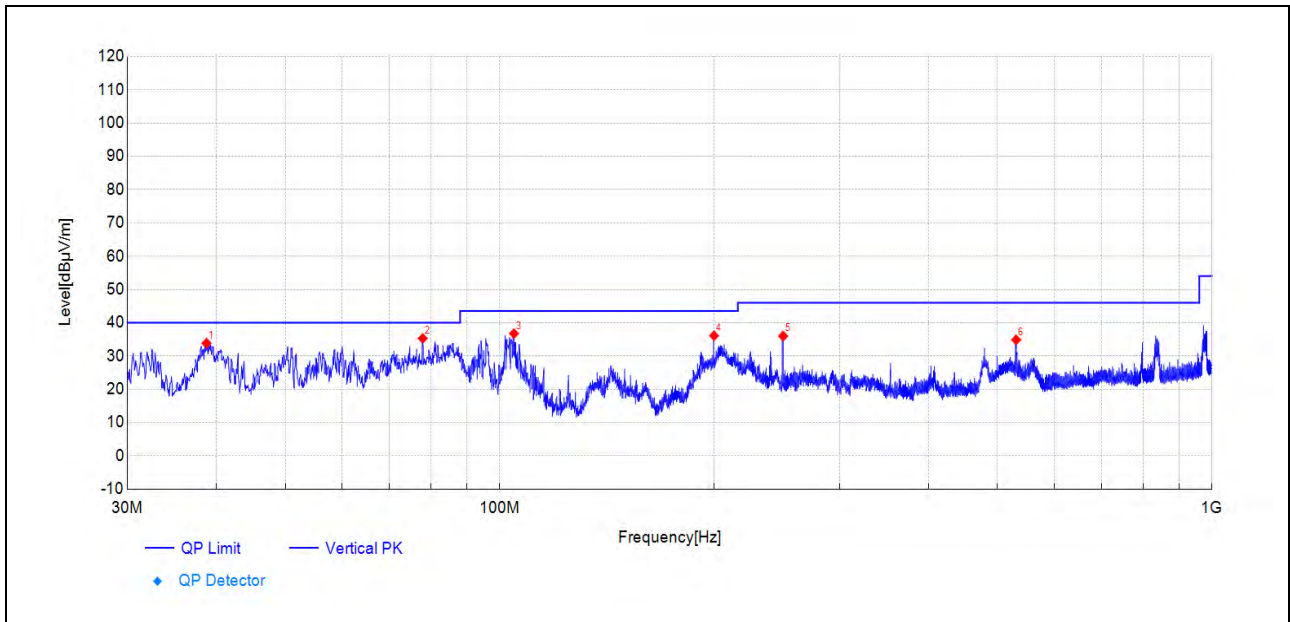
(Antenna Horizontal, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
71.74	68.9	34.07	-34.810	40.00	5.93	165	359	PK	PASS
78.03	67.8	32.53	-35.300	40.00	7.47	165	189	PK	PASS
199.97	67.9	37.63	-30.220	43.50	5.87	165	355	PK	PASS
250.00	70.9	42.75	-28.120	46.00	3.25	165	349	PK	PASS
531.02	58.0	36.61	-21.400	46.00	9.39	165	264	PK	PASS
799.76	51.7	35.12	-16.570	46.00	10.88	165	62	PK	PASS



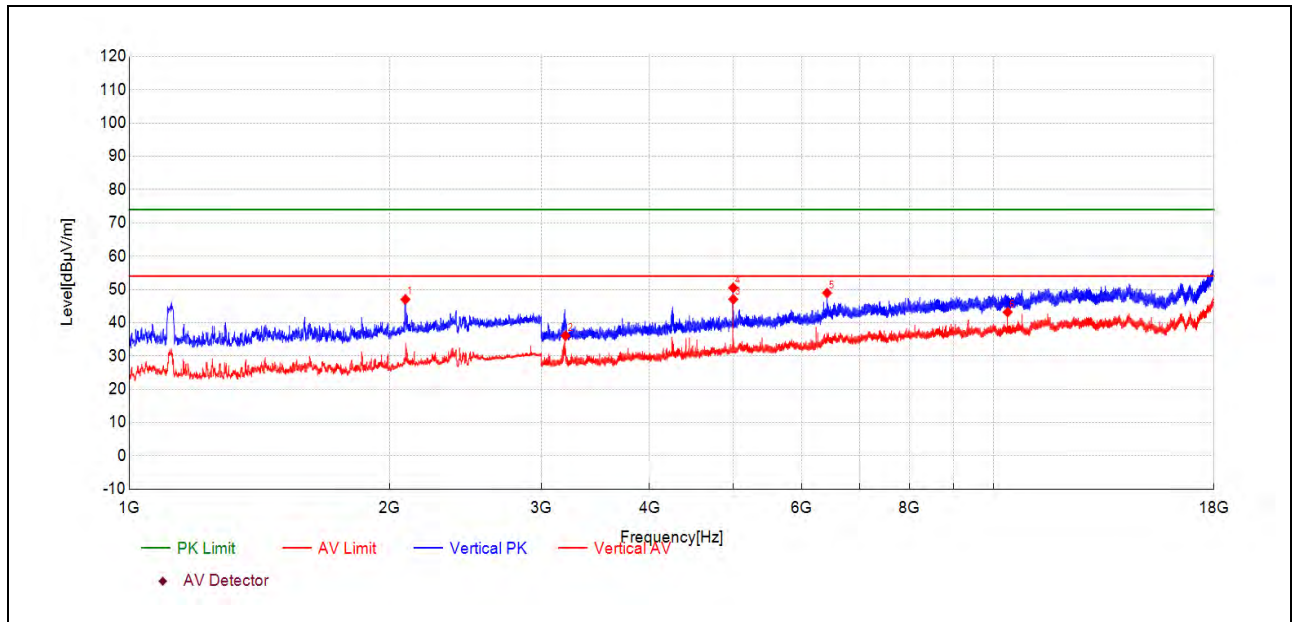
(Antenna Horizontal, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2413.92	36.1	36.89	0.830	-	-	165	135	AV	NA
2413.92	42.8	43.63	0.830	-	-	165	135	PK	NA
4999.67	57.2	47.20	-10.010	54.00	6.80	165	209	AV	PASS
4999.67	59.7	49.68	-10.010	74.00	24.32	165	209	PK	PASS
11426.82	48.7	51.39	2.650	74.00	22.61	165	162	PK	PASS
11426.82	43.9	46.51	2.650	54.00	7.49	165	183	AV	PASS



(Antenna Vertical, 30MHz to 1GHz)

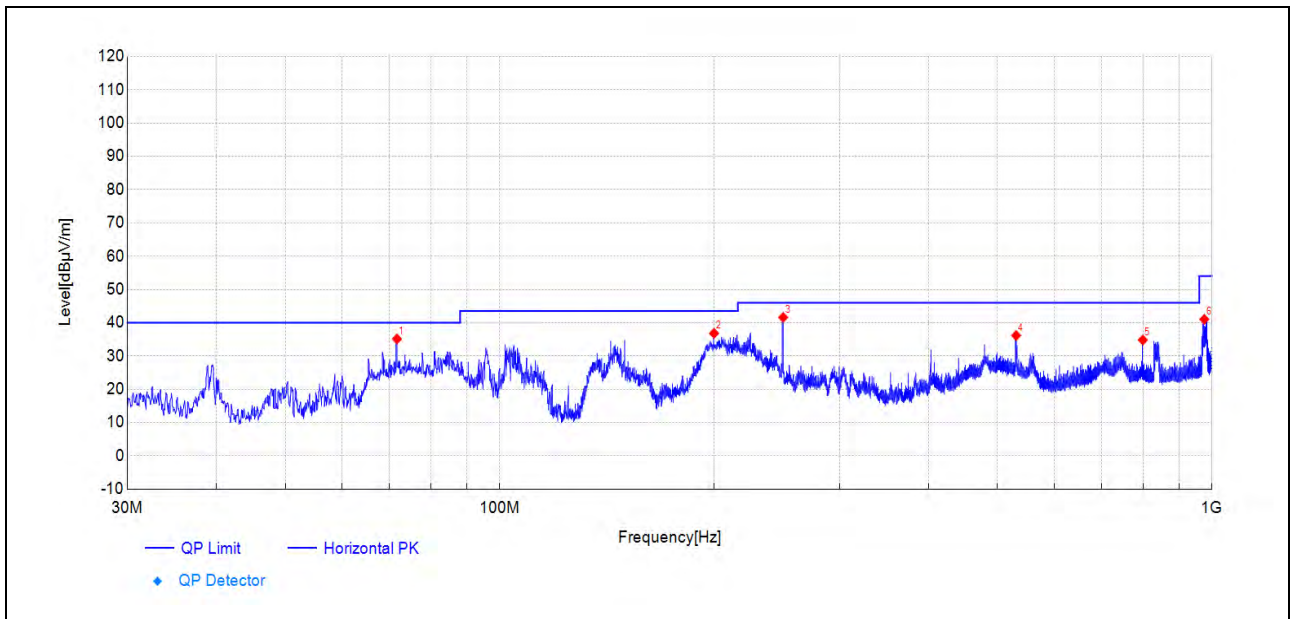
Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
38.76	63.3	33.83	-29.490	40.00	6.17	165	47	PK	PASS
77.97	70.6	35.29	-35.300	40.00	4.71	165	147	PK	PASS
104.72	67.1	36.72	-30.390	43.50	6.78	165	311	PK	PASS
199.97	66.3	36.09	-30.220	43.50	7.41	165	97	PK	PASS
250.00	64.1	35.99	-28.120	46.00	10.01	165	13	PK	PASS
531.02	56.3	34.87	-21.400	46.00	11.13	165	13	PK	PASS



(Antenna Vertical, 1GHz to 18GHz)

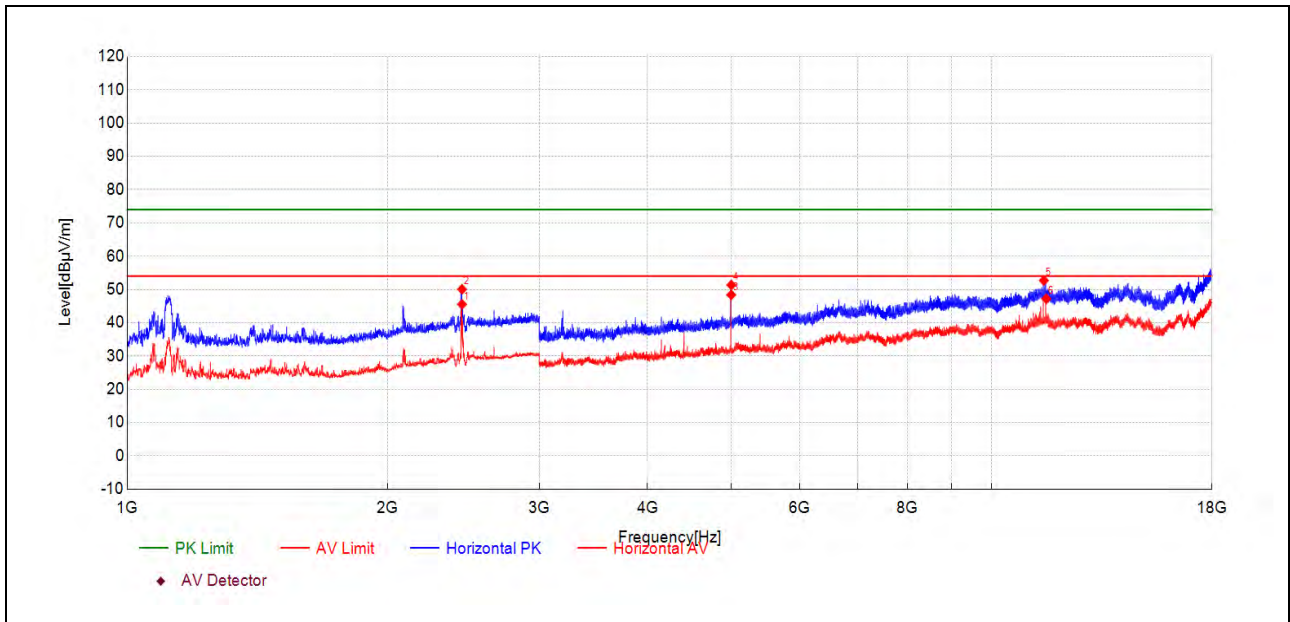
Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2087.18	48.2	47.01	-1.180	74.00	26.99	165	288	PK	PASS
3197.87	51.6	36.10	-15.500	54.00	17.90	165	184	AV	PASS
4999.67	57.1	47.04	-10.010	54.00	6.96	165	279	AV	PASS
4999.67	60.5	50.48	-10.010	74.00	23.52	165	256	PK	PASS
6420.17	53.9	48.94	-4.990	74.00	25.06	165	232	PK	PASS
10388.10	44.0	43.19	-0.810	54.00	10.81	165	184	AV	PASS

Plot for Channel 7



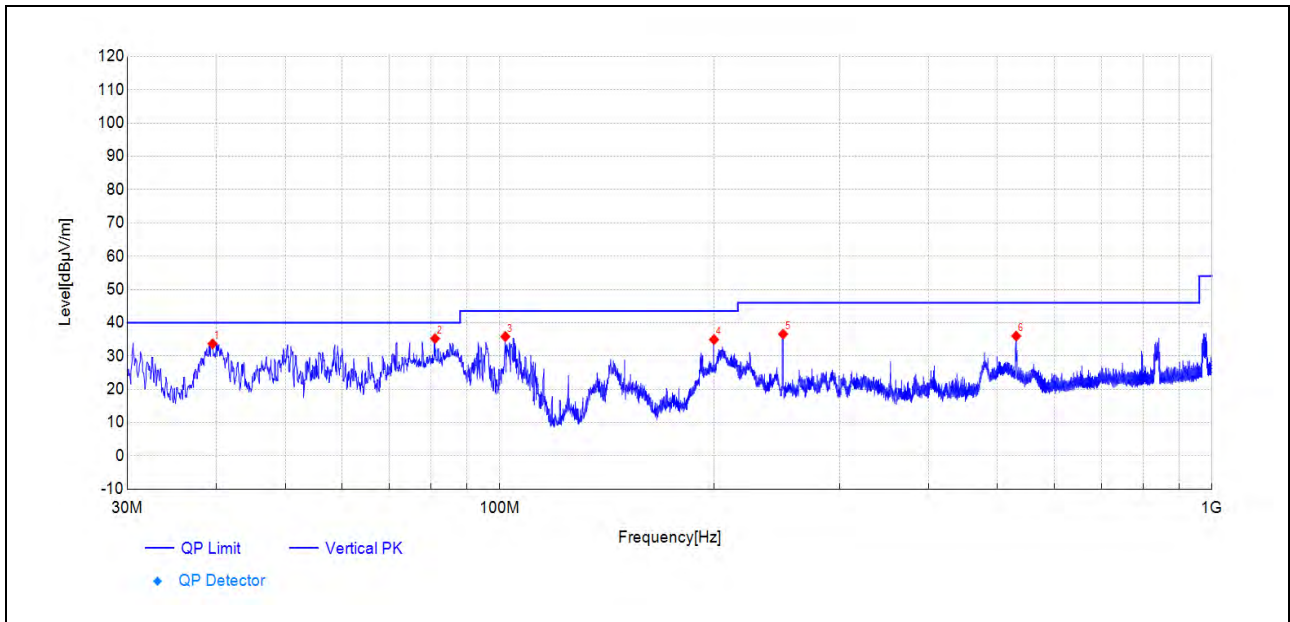
(Antenna Horizontal, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
71.74	69.9	35.12	-34.810	40.00	4.88	165	355	PK	PASS
199.97	67.0	36.81	-30.220	43.50	6.69	165	111	PK	PASS
250.00	69.7	41.58	-28.120	46.00	4.42	165	340	PK	PASS
530.96	57.6	36.16	-21.410	46.00	9.84	165	238	PK	PASS
799.70	51.4	34.81	-16.570	46.00	11.19	165	73	PK	PASS
975.25	54.7	41.01	-13.640	54.00	12.99	165	111	PK	PASS



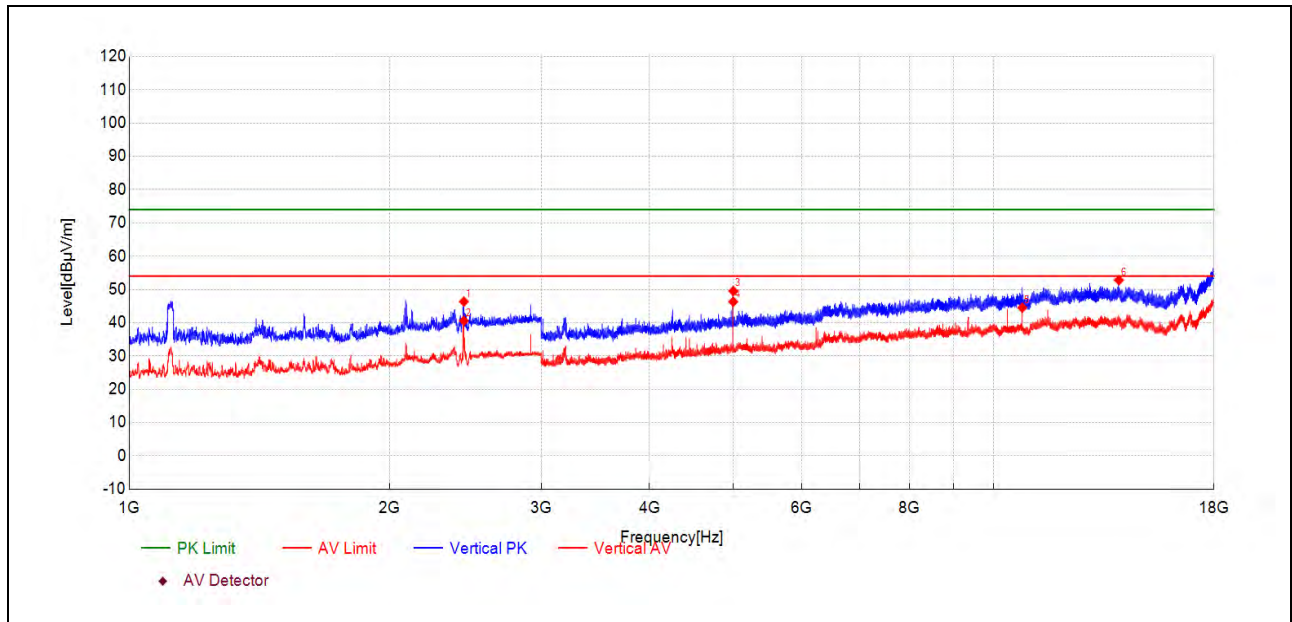
(Antenna Horizontal, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2439.80	44.5	45.54	1.010	-	-	165	316	AV	NA
2440.29	49.0	50.05	1.010	-	-	165	328	PK	NA
4999.67	58.4	48.37	-10.010	54.00	5.63	165	221	AV	PASS
5000.17	61.4	51.34	-10.010	74.00	22.66	165	221	PK	PASS
11501.08	50.0	52.70	2.660	74.00	21.30	165	175	PK	PASS
11575.34	44.4	47.20	2.810	54.00	6.80	165	196	AV	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
39.52	62.9	33.67	-29.250	40.00	6.33	165	32	PK	PASS
81.15	70.3	35.24	-35.020	40.00	4.76	165	145	PK	PASS
101.84	66.1	35.82	-30.310	43.50	7.68	165	32	PK	PASS
199.97	65.1	34.92	-30.220	43.50	8.58	165	121	PK	PASS
250.00	64.7	36.58	-28.120	46.00	9.42	165	20	PK	PASS
531.14	57.4	35.99	-21.400	46.00	10.01	165	12	PK	PASS

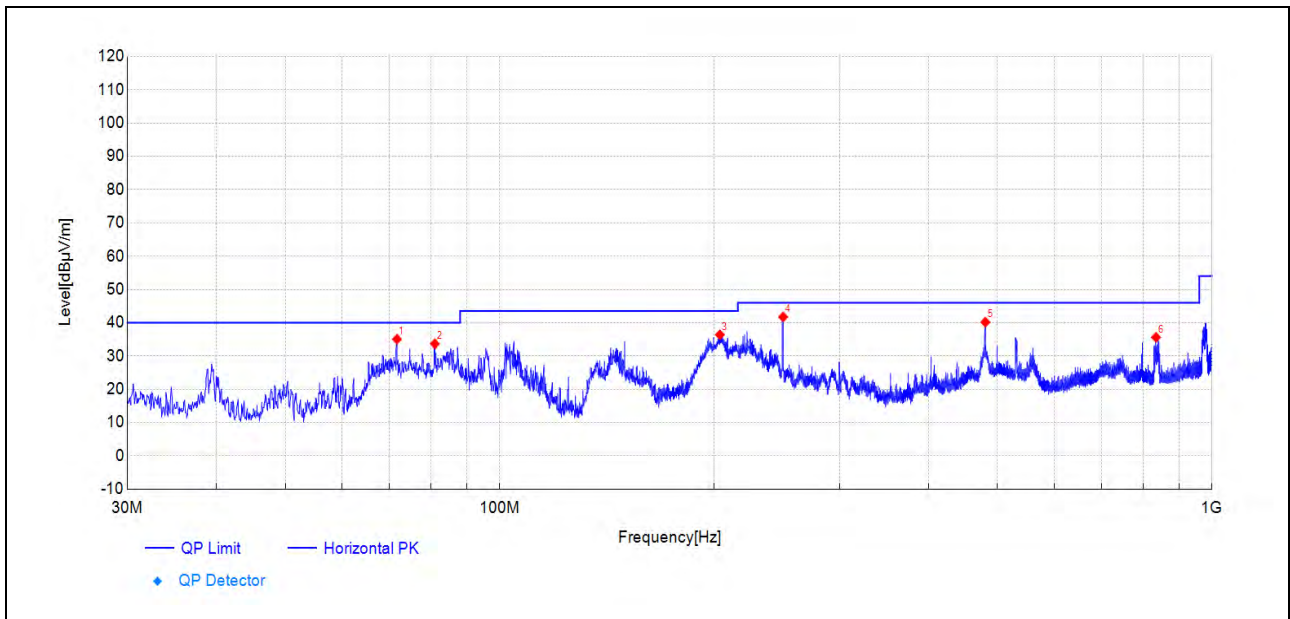


(Antenna Vertical, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2439.32	45.3	46.34	1.000	-	-	165	111	PK	NA
2439.32	39.6	40.58	1.000	-	-	165	111	AV	NA
4999.67	59.5	49.52	-10.010	74.00	24.48	165	258	PK	PASS
4999.67	56.3	46.32	-10.010	54.00	7.68	165	280	AV	PASS
10799.80	44.3	44.50	0.180	54.00	9.50	165	211	AV	PASS
13972.25	47.6	52.80	5.250	74.00	21.20	165	258	PK	PASS

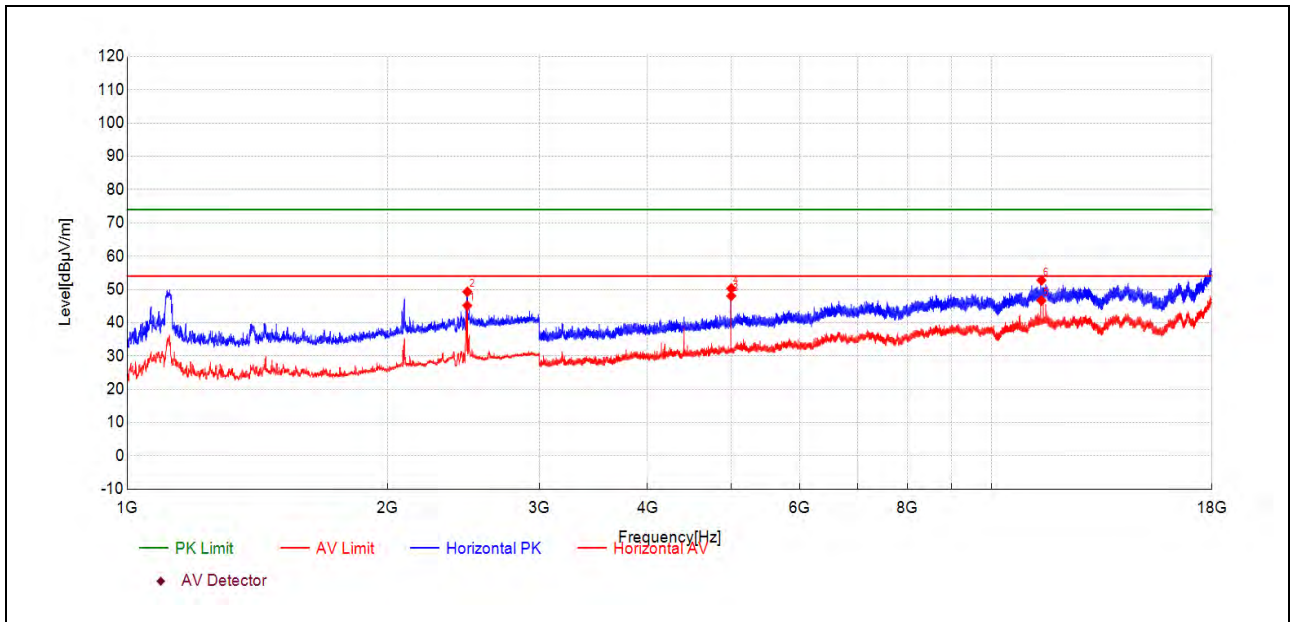


Plot for Channel 13



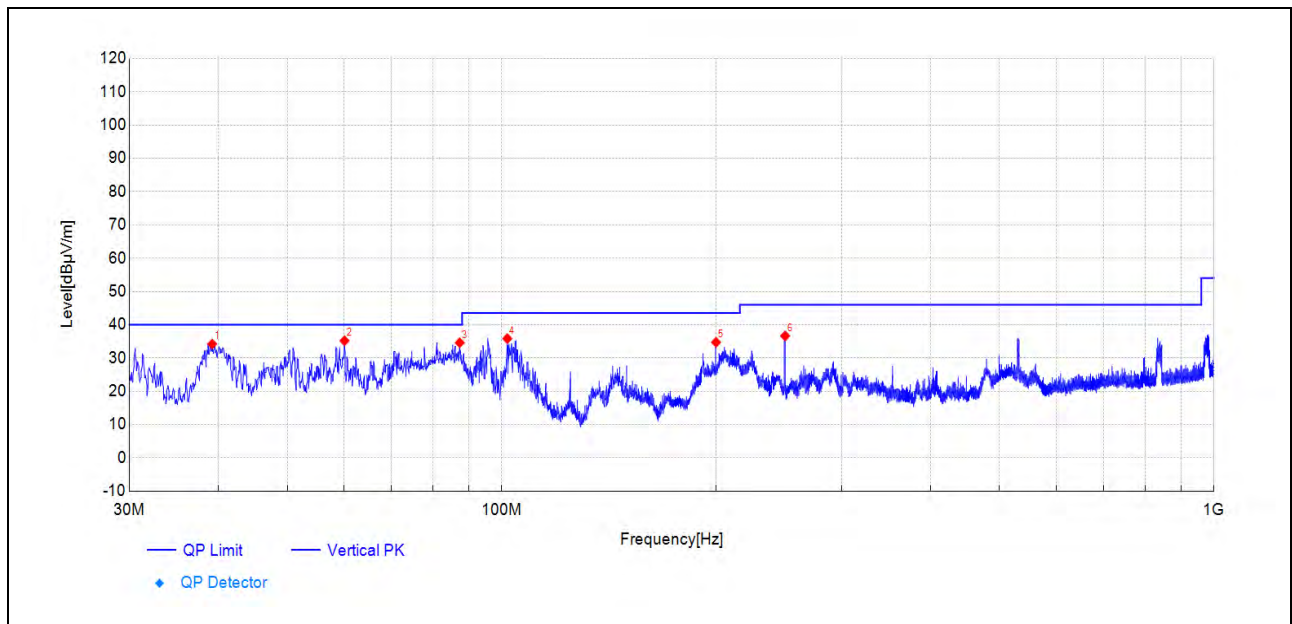
(Antenna Horizontal, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
71.74	69.9	35.04	-34.810	40.00	4.96	165	177	PK	PASS
81.09	68.7	33.64	-35.030	40.00	6.36	165	10	PK	PASS
203.79	66.6	36.39	-30.190	43.50	7.11	165	341	PK	PASS
250.00	69.9	41.73	-28.120	46.00	4.27	165	341	PK	PASS
480.70	62.5	40.16	-22.320	46.00	5.84	165	139	PK	PASS
834.50	51.5	35.61	-15.910	46.00	10.39	165	124	PK	PASS



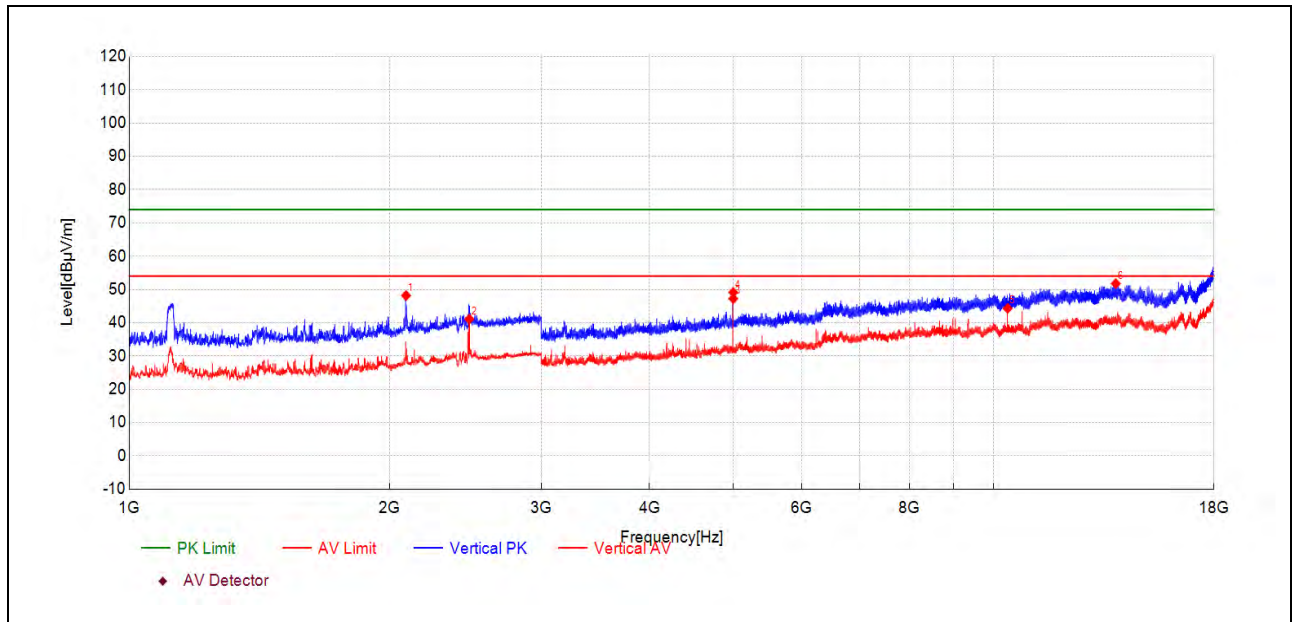
(Antenna Horizontal, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2474.48	44.2	45.13	0.950	-	-	165	326	AV	NA
2474.97	48.4	49.29	0.940	-	-	165	326	PK	NA
4999.67	58.1	48.06	-10.010	54.00	5.94	165	221	AV	PASS
5000.17	60.3	50.29	-10.010	74.00	23.71	165	221	PK	PASS
11426.82	44.0	46.64	2.650	54.00	7.36	165	173	AV	PASS
11426.82	50.1	52.75	2.650	74.00	21.25	165	173	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
39.23	63.6	34.21	-29.340	40.00	5.79	165	0	PK	PASS
60.16	66.1	35.17	-30.970	40.00	4.83	165	299	PK	PASS
87.32	67.6	34.59	-33.020	40.00	5.41	165	123	PK	PASS
101.84	66.1	35.82	-30.310	43.50	7.68	165	32	PK	PASS
199.97	65.0	34.73	-30.220	43.50	8.77	165	97	PK	PASS
250.00	64.8	36.64	-28.120	46.00	9.36	165	21	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
2090.60	49.3	48.17	-1.130	74.00	25.83	165	238	PK	PASS
2474.97	40.2	41.12	0.940	-	-	165	126	AV	NA
4999.67	57.2	47.21	-10.010	54.00	6.79	165	268	AV	PASS
4999.67	59.1	49.10	-10.010	74.00	24.90	165	289	PK	PASS
10388.10	45.1	44.31	-0.810	54.00	9.69	165	196	AV	PASS
13855.13	46.8	51.77	5.000	74.00	22.23	165	359	PK	PASS



Notes

1. The report shall have report stamp or our company stamp.
2. The report shall be invalid without all the signatures of the editor and approver.
3. The report shall not be changed.
4. Any objections must be raised to Morlab within 15 days since the date when the report is received. It will not be taken into consideration beyond this limit.
5. Conformity declaration:
 - ☒ Morlab issues a statement of conformity based on the corresponding standards (default)
 - ☐ Morlab issues a statement of conformity based on the applicant requirement
6. Use of uncertainty of measurement for decisions on conformity (decision rule):

No decision rule is specified by the testing standard, when comparing the measurement result with the applicable limit according to the specification in that standard. The decisions on conformity are made without applying the measurement uncertainty ("simple acceptance" decision rule).

————— END OF REPORT —————

