



REPORT No.: SZ25020263W01

TEST REPORT

APPLICANT : Linkplay Technology Inc.

PRODUCT NAME : WiiM Amp Ultra

MODEL NAME : AMP003

BRAND NAME : WiiM

FCC ID : 2BABF-AMP003

STANDARD(S) : 47 CFR Part 15 Subpart C

RECEIPT DATE : 2025-03-19

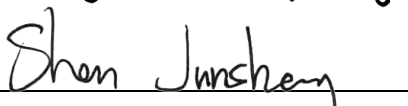
TEST DATE : 2025-04-15 to 2025-05-09

ISSUE DATE : 2025-05-19

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Change History		
Version	Date	Reason for change
1.0	2025-05-19	First edition



1. Summary of Test Result

No.	Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
1	15.203	Antenna Requirement	N/A	N/A	N/A _{Note1}	N/A
2	N/A	Duty Cycle of Test Signal	N/A	N/A	N/A _{Note1}	N/A
3	15.247(b)	Maximum Peak Conducted Output Power	N/A	N/A	N/A _{Note1}	N/A
4	15.247(b)	Maximum Average Conducted Output Power	N/A	N/A	N/A _{Note1}	N/A
5	15.247(a)	Bandwidth	N/A	N/A	N/A _{Note1}	N/A
6	15.247(d)	Conducted Spurious Emission and Band Edge	N/A	N/A	N/A _{Note1}	N/A
7	15.247(e)	Power Spectral Density	N/A	N/A	N/A _{Note1}	N/A
8	15.207	Conducted Emission	May 09, 2025	Fan Shengquan	PASS	No deviation
9	15.247(d)	Restricted Frequency Bands	Apr. 09, 2025	Gao Jianrou	PASS	No deviation
10	15.209, 15.247(d)	Radiated Emission	Apr. 23, 2025	Gao Jianrou	PASS	No deviation

Note 1: The test results of all conducted test items please refer to the module FCC test report (Report No.: SZ24040154W01), which issued on Jul. 26, 2024.

Note 2: The tests were performed according to the method of measurements prescribed in ANSI C63.10-2013 and KDB 558074 D01 v05r02.

Note 3: Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.

Note 4: When the test result is a critical value, we will use the measurement uncertainty give the



judgment result based on the 95% confidence intervals.

1.1. Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 15 Subpart C Radio Frequency Devices



1.2. Test Equipment List

1.2.1 Conducted Emission Test Equipment

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Receiver	MY56400093	N9038A	KEYSIGHT	2025.01.06	2026.01.05
LISN	8127449	NSLK 8127	Schwarzbeck	2025.01.09	2026.01.08
Pulse Limiter (10dB)	VTSD 9561 F- B #206	VTSD 9561-F	Schwarzbeck	2024.05.30	2025.05.29
RF Coaxial Cable (DC-100MHz)	BNC	MRE04	Qualwave	2024.07.02	2025.07.01

1.2.2 List of Software Used

Description	Manufacturer	Software Version
JS32-RE	Tonscend	5.0.0
TS+ -[JS32-CE]	Tonscend	2.5.0.0

**1.2.4 Radiated Test Equipment**

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Signal Analyzer	MY56060145	N9020A	Agilent	2024.05.30	2025.05.29
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2024.06.22	2025.06.21
Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2024.06.03	2025.06.02
Test Antenna – Horn	01774	BBHA 9120D	Schwarzbeck	2024.06.22	2025.06.21
Test Antenna – Horn	BBHA9170 #773	BBHA9170	Schwarzbeck	2024.06.22	2025.06.21
Preamplifier (10MHz-6GHz)	46732	S10M100L38 02	LUCIX CORP.	2024.05.30	2025.05.29
Preamplifier (2GHz-18GHz)	61171/61172	S020180L32 03	LUCIX CORP.	2024.05.30	2025.05.29
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118-40C-S	Decentest	2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-40GHz)	22290045	QA360-40-KK-0.5	Qualwave	2024.07.03	2025.07.02
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-KKF-2	Qualwave	2024.07.03	2025.07.02
RF Coaxial Cable (DC-18GHz)	22120181	QA500-18-NN-5	Qualwave	2024.07.03	2025.07.02
Notch Filter	N/A	WRCG-2400-2483.5-60SS	Wainwright	N/A	N/A
Anechoic Chamber	N/A	9m*6m*6m	CRT	2025.04.19	2028.04.18
Anechoic Chamber	N/A	9m*6m*6m	CRT	2022.11.30	2025.11.29



1.3. Measurement Uncertainty

Test Items	Uncertainty	Remark
Restricted Frequency Bands	±5%	Confidence levels of 95%
Radiated Emission	±2.95dB	Confidence levels of 95%
Conducted Emission	±2.44dB	Confidence levels of 95%

1.4. Testing Laboratory

Laboratory Name	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Telephone	+86 755 36698555
Facsimile	+86 755 36698525
FCC Designation Number	CN1192
FCC Test Firm Registration Number	226174



2. General Description

2.1. Information of Applicant and Manufacturer

Applicant	Linkplay Technology Inc.
Applicant Address	8000 Jarvis Avenue Suite #130, Newark, CA 94560
Manufacturer	Linkplay Technology Inc.
Manufacturer Address	8000 Jarvis Avenue Suite #130, Newark, CA 94560

2.2. Information of EUT

Product Name:	WiiM Amp Ultra
Sample No.:	4#, 25#
Hardware Version:	A98D V02+Main Board V02
Software Version:	Linkplay.5.2.708867
Equipment Type:	Bluetooth LE
Bluetooth Version:	5.3
Modulation Type:	GFSK
Data Rate:	1Mbps, 2Mbps
Operating Frequency Range:	2402MHz-2480MHz
Antenna Type:	PIFA Antenna
Antenna Gain:	ANT1: 3.46dBi; ANT2: 3.46dBi

Note 1: The test results of all conducted test items please refer to the module FCC test report (Report No.: SZ24040154W01), which issued on Jul. 26, 2024. We only recorded the radiated test result in this report.

Note 2: The EUT has two antennas and it operates in single antenna. Both of the two antennas were evaluated separately, only the worst test result (ANT2) were recorded in the test report.

Note 3: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.



2.3.Channel List of EUT

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

Note 1: The black bold channels were selected for test.

2.4. Test Configuration of EUT

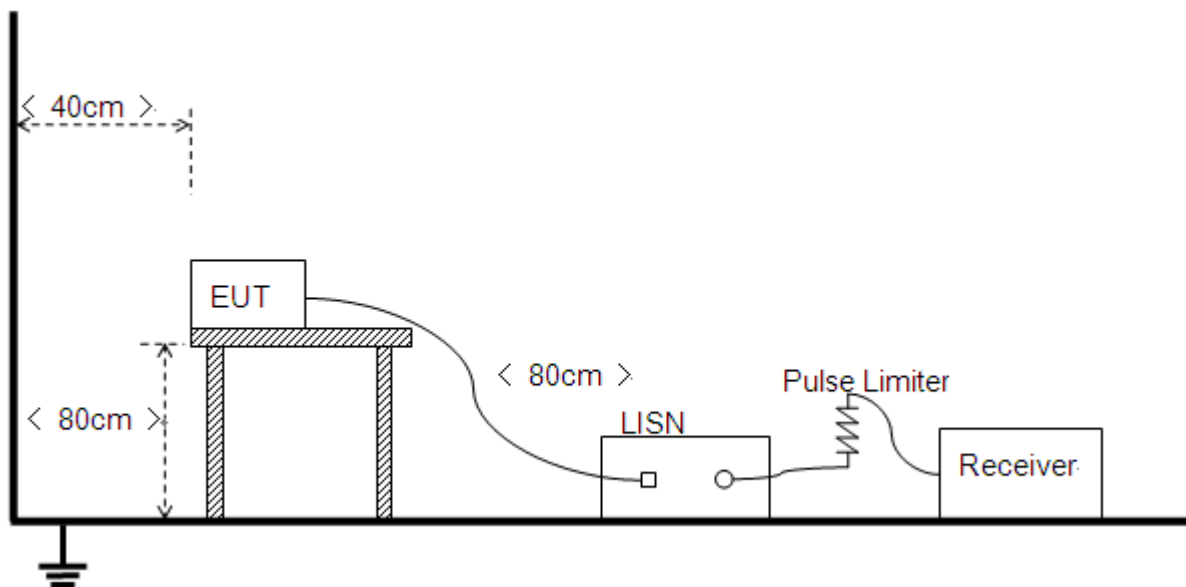
Test mode is used to control the EUT under the maximum power level during test.

2.5. Test Conditions

Temperature (°C)	15-35
Relative Humidity (%)	30-60
Atmospheric Pressure (kPa)	86-106

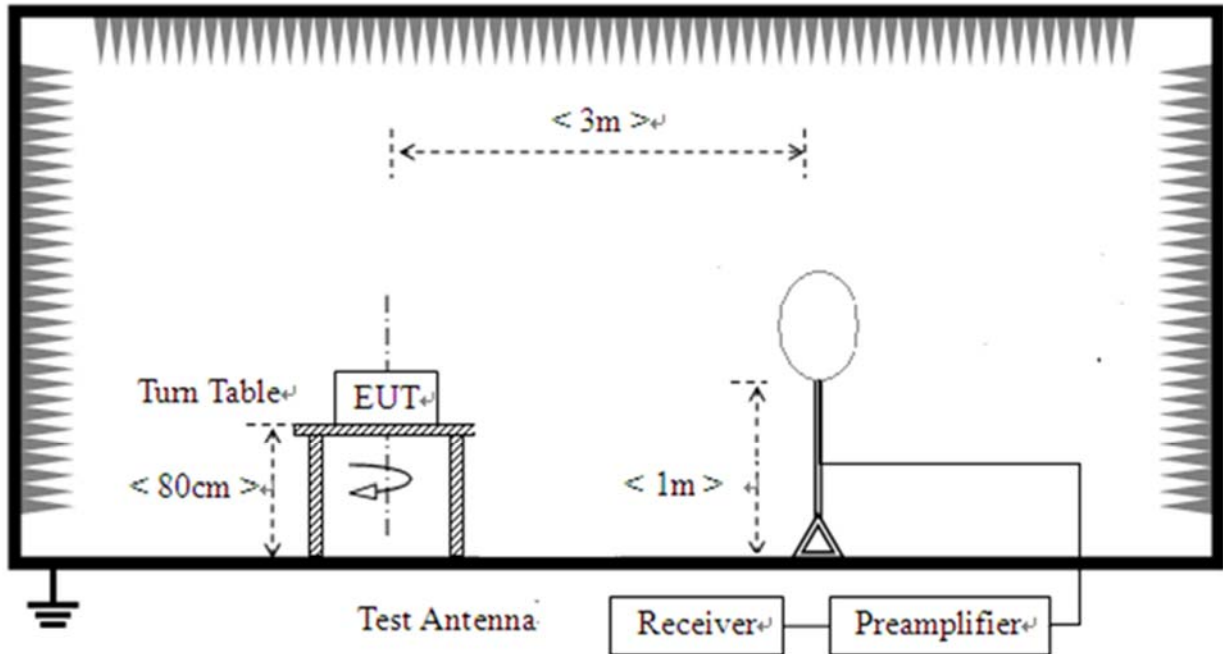
2.6. Test Setup Layout Diagram

2.6.1. Conducted Emission Measurement

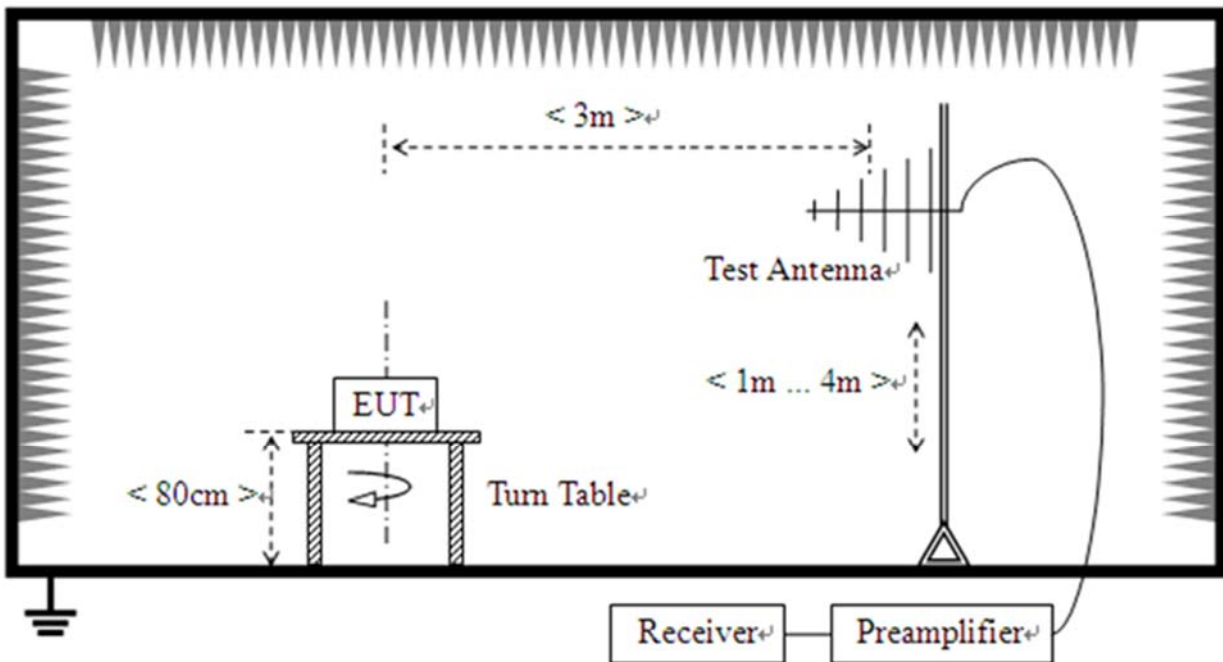


2.6.2.Radiation Measurement

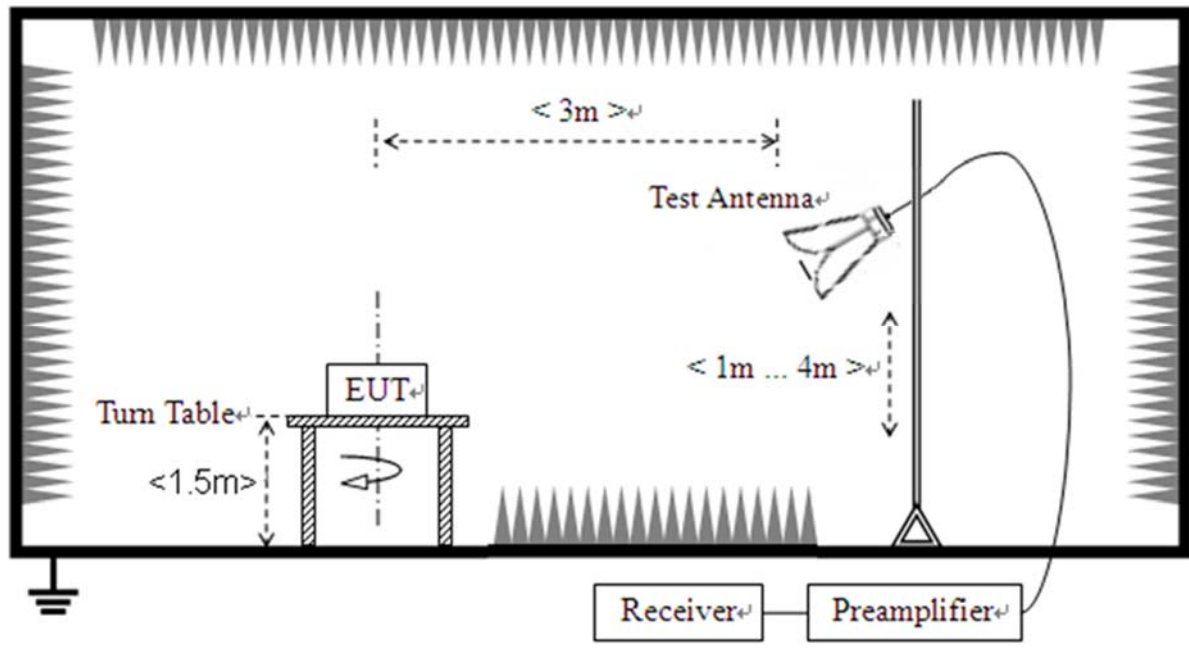
1) For radiated emissions from 9kHz to 30MHz



2) For radiated emissions from 30MHz to 1GHz



3) For radiated emissions above 1GHz



3. Test Results

3.1. Conducted Emission

3.1.1. Requirement

According to FCC section 15.207, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

Frequency Range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

Note:

- (a) The lower limit shall apply at the band edges.
- (b) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

3.1.2. Test Procedures

The Table-top EUT was placed upon a non-metallic table 0.8m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80cm from LISN. The set-up and test methods were according to ANSI C63.10: 2013.

3.1.3. Test Setup Layout

Refer to chapter 2.6.2 in this report.

3.1.4. Test Result

Refer to Annex A.1 in this report.

3.2. Restricted Frequency Bands

3.2.1. Requirement

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in 15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

3.2.2. Test Procedures

The EUT is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading.

For the Test Antenna:

Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength.

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1\text{GHz}$, 100 kHz for $f < 1\text{GHz}$

VBW = 3 MHz

Sweep = auto

Detector function = peak/average

Trace = max hold

Allow the trace to stabilize

3.2.3. Test Setup Layout

Refer to chapter 2.6.3 in this report.

3.2.4. Test Result

Refer to Annex A.2 in this report.

3.3. Radiated Emission

3.3.1. Requirement

According to FCC section 15.247(d), radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ($\mu\text{V}/\text{m}$)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note1: For above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.

Note2: For above 1000MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK). In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table).



3.3.2.Test Procedures

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 30MHz, the emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9kHz-90 kHz, 110kHz-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

For measurements below 1GHz the resolution bandwidth is set to 100kHz for peak detection measurements or 120kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1GHz the resolution bandwidth is set to 1MHz, the video band width is set to 3MHz for peak measurements and as applicable for average measurements.

The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions. For measurements above 1 GHz, keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.

3.3.3.Test Setup Layout

Refer to chapter 2.6.3 in this report.

3.3.4.Test Result

Refer to Annex A.3 in this report.



Annex A Test Data and Result

A.1. 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+TV+HDMI cable+Load+Fiber box+Mobile phone+Audio+U disk+BT TX

Test voltage: AC 120V/60Hz

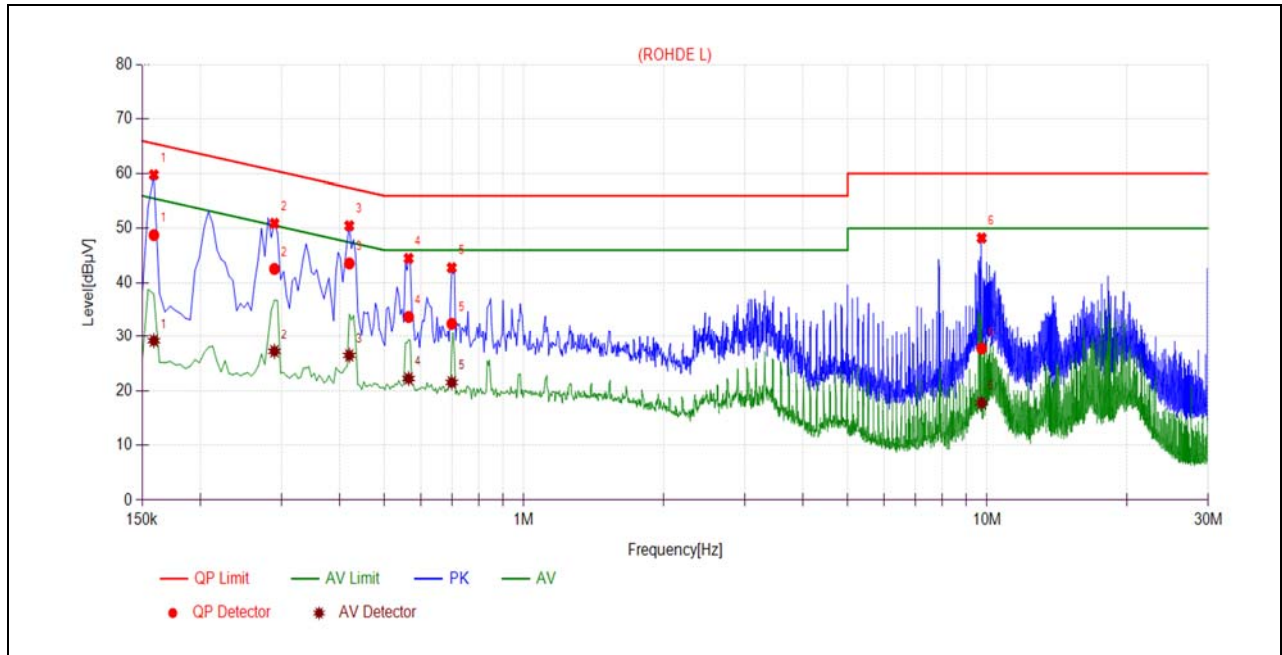
The measurement results are obtained as below:

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

U_R : Receiver Reading

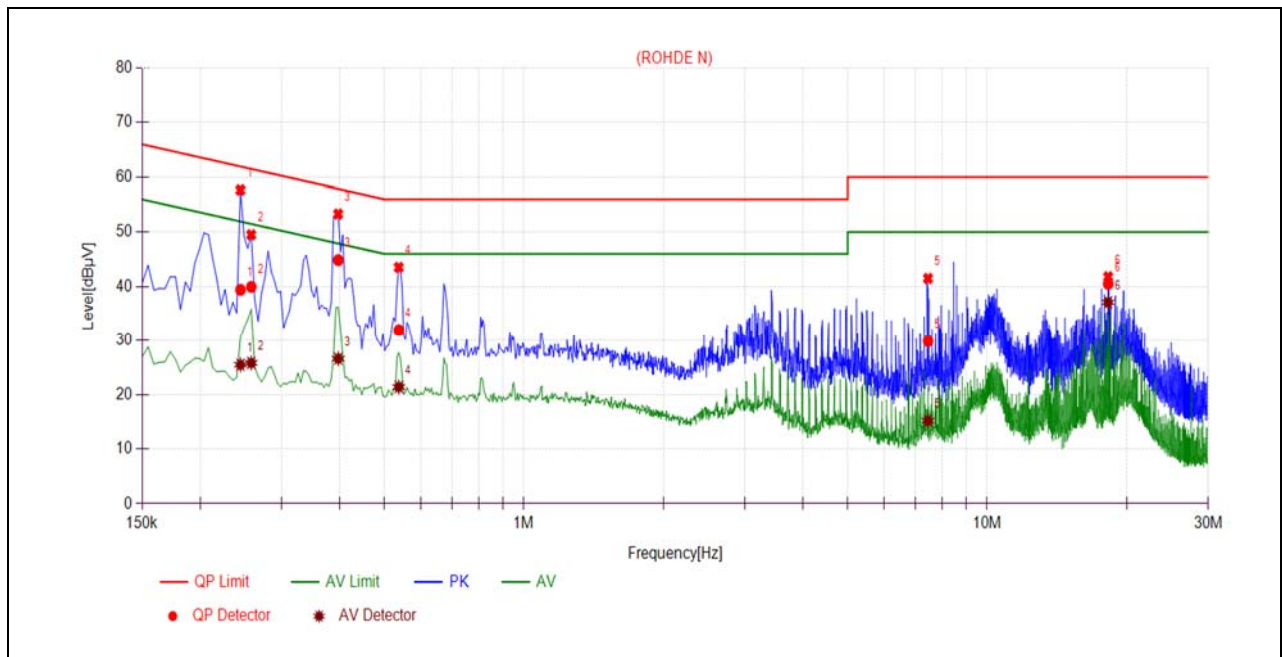
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1590	48.77	29.17	65.52	55.52	Line	PASS
2	0.2895	42.55	27.22	60.54	50.54		PASS
3	0.4200	43.55	26.46	57.45	47.45		PASS
4	0.5640	33.71	22.21	56.00	46.00		PASS
5	0.6989	32.44	21.50	56.00	46.00		PASS
6	9.7297	27.73	17.75	60.00	50.00		PASS



(N Phase)

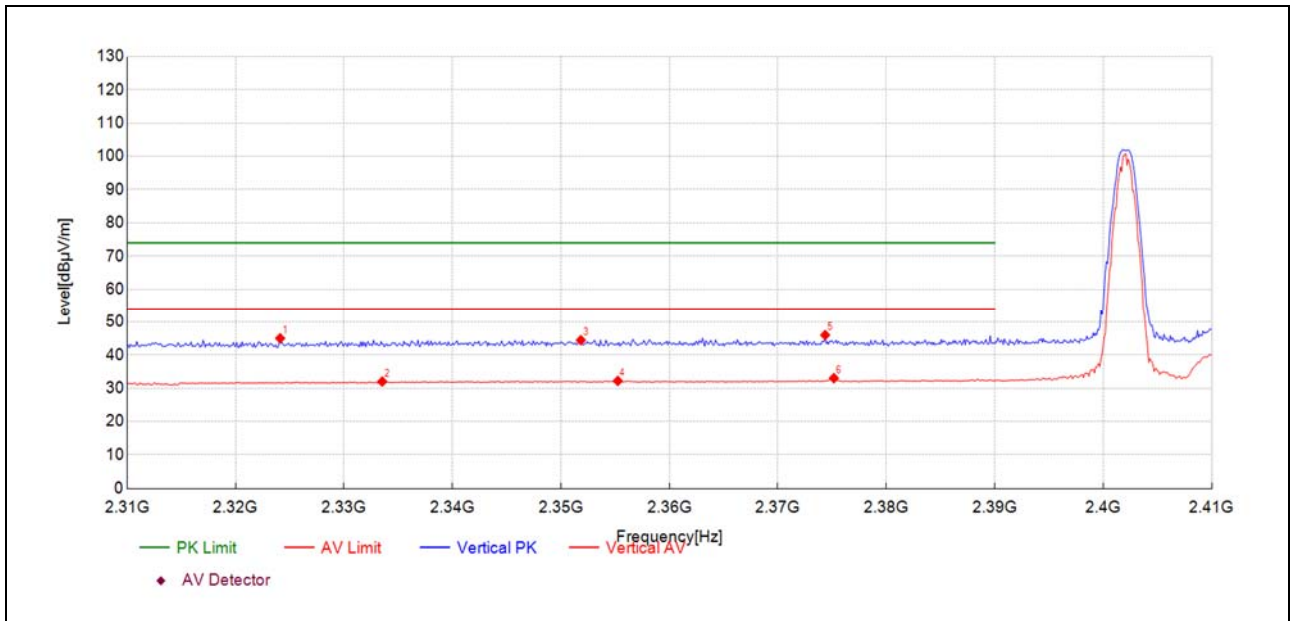
No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.2445	39.42	25.47	61.94	51.94	Neutral	PASS
2	0.2580	39.95	25.81	61.49	51.49		PASS
3	0.3975	44.86	26.59	57.91	47.91		PASS
4	0.5370	31.97	21.37	56.00	46.00		PASS
5	7.4540	29.87	15.18	60.00	50.00		PASS
6	18.2432	40.50	37.11	60.00	50.00		PASS

A.2. Restricted Frequency Bands

Note: 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.

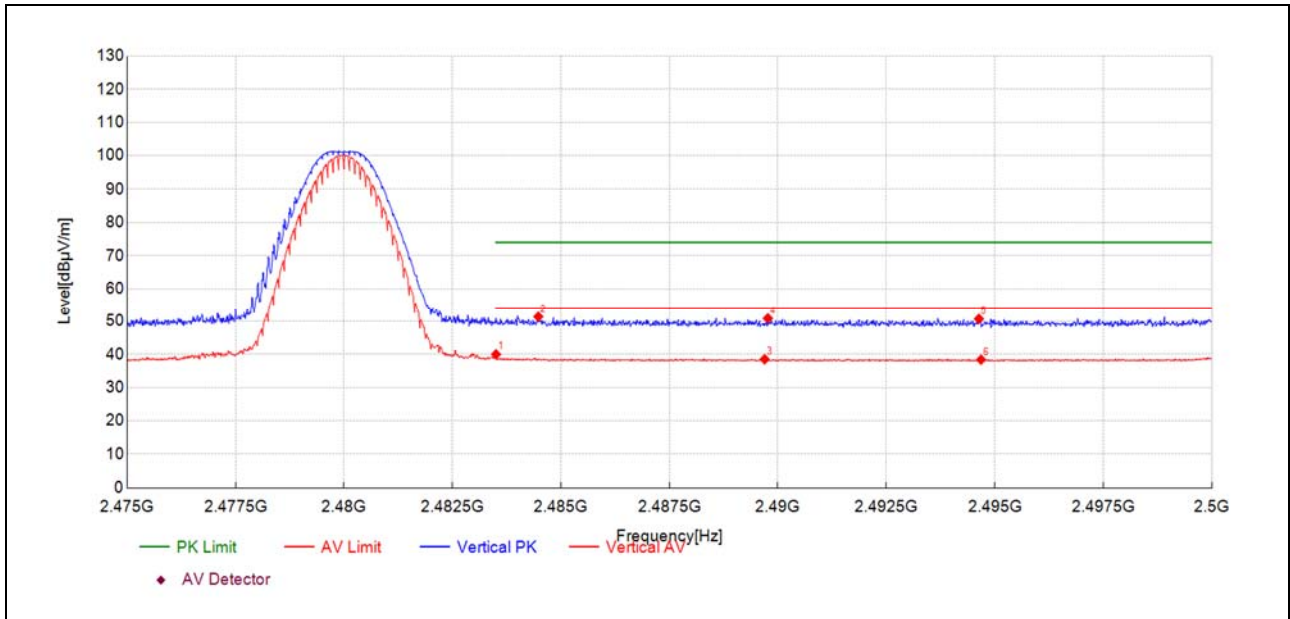
1Mbps

Plot for Channel 0



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2324.11	12.9	45.01	32.150	74.00	28.99	150	352	PK	PASS
2333.52	-0.3	31.99	32.240	54.00	22.01	150	224	AV	PASS
2351.84	12.0	44.44	32.400	74.00	29.56	150	360	PK	PASS
2355.25	-0.2	32.18	32.420	54.00	21.82	150	185	AV	PASS
2374.36	13.5	45.96	32.490	74.00	28.04	150	224	PK	PASS
2375.17	0.5	33.00	32.490	54.00	21.00	150	312	AV	PASS

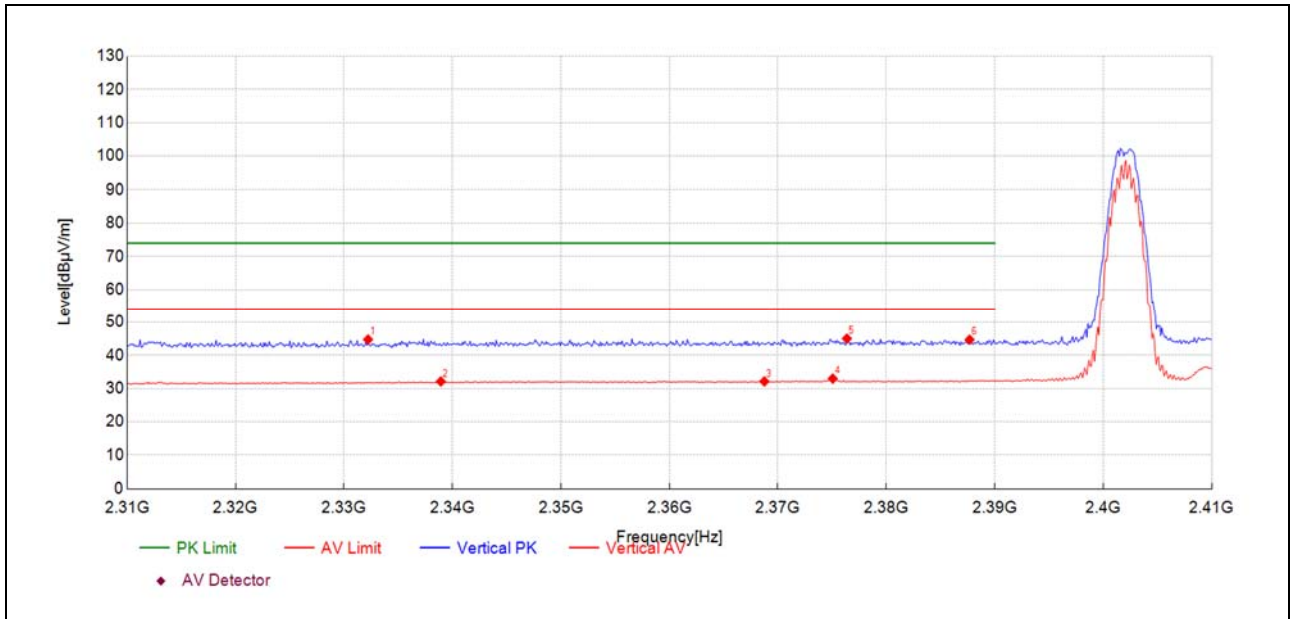
Plot for Channel 39



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2483.50	7.0	39.98	33.030	54.00	14.02	150	195	AV	PASS
2484.48	18.3	51.33	33.030	74.00	22.67	150	175	PK	PASS
2489.69	5.5	38.49	33.020	54.00	15.51	150	308	AV	PASS
2489.77	17.8	50.82	33.020	74.00	23.18	150	53	PK	PASS
2494.63	17.7	50.66	33.010	74.00	23.34	150	206	PK	PASS
2494.68	5.4	38.37	33.010	54.00	15.63	150	1	AV	PASS

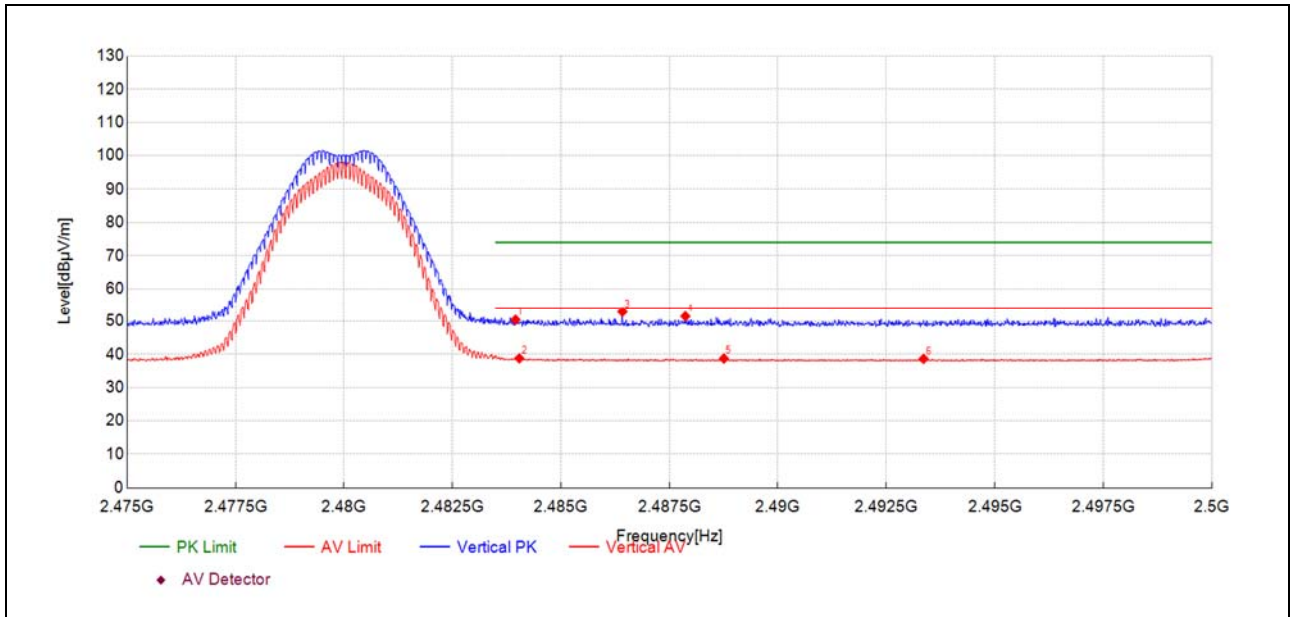
**2Mbps**

Plot for Channel 0



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2332.22	12.5	44.71	32.230	74.00	29.29	150	203	PK	PASS
2338.93	-0.2	32.09	32.290	54.00	21.91	150	349	AV	PASS
2368.76	-0.4	32.12	32.470	54.00	21.88	150	242	AV	PASS
2375.07	0.5	32.95	32.490	54.00	21.05	150	232	AV	PASS
2376.37	12.5	44.99	32.490	74.00	29.01	150	194	PK	PASS
2387.68	12.1	44.65	32.540	74.00	29.35	150	0	PK	PASS

Plot for Channel 39



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2483.95	17.4	50.40	33.030	74.00	23.60	150	183	PK	PASS
2484.04	5.7	38.76	33.030	54.00	15.24	150	225	AV	PASS
2486.42	19.8	52.84	33.030	74.00	21.16	150	173	PK	PASS
2487.87	18.4	51.46	33.020	74.00	22.54	150	195	PK	PASS
2488.76	5.7	38.71	33.020	54.00	15.29	150	22	AV	PASS
2493.36	5.6	38.63	33.010	54.00	15.37	150	11	AV	PASS



A.3. 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.

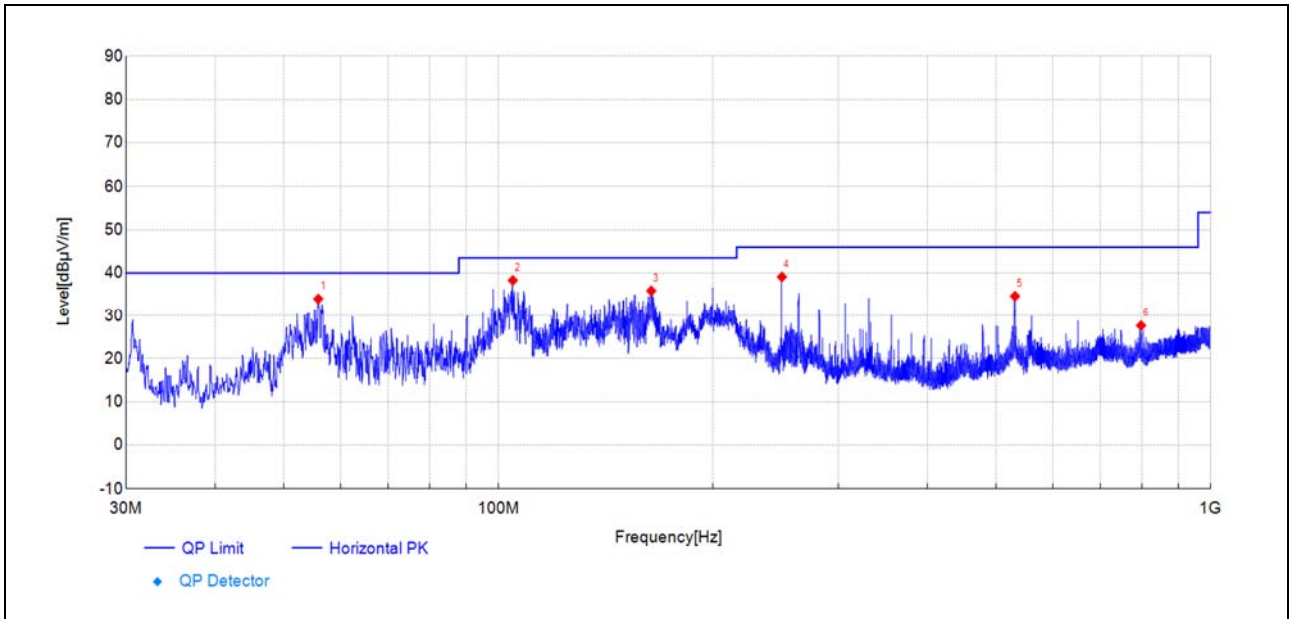
Note2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

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 were considered and evaluated respectively by performing full test, only the worst data were recorded.

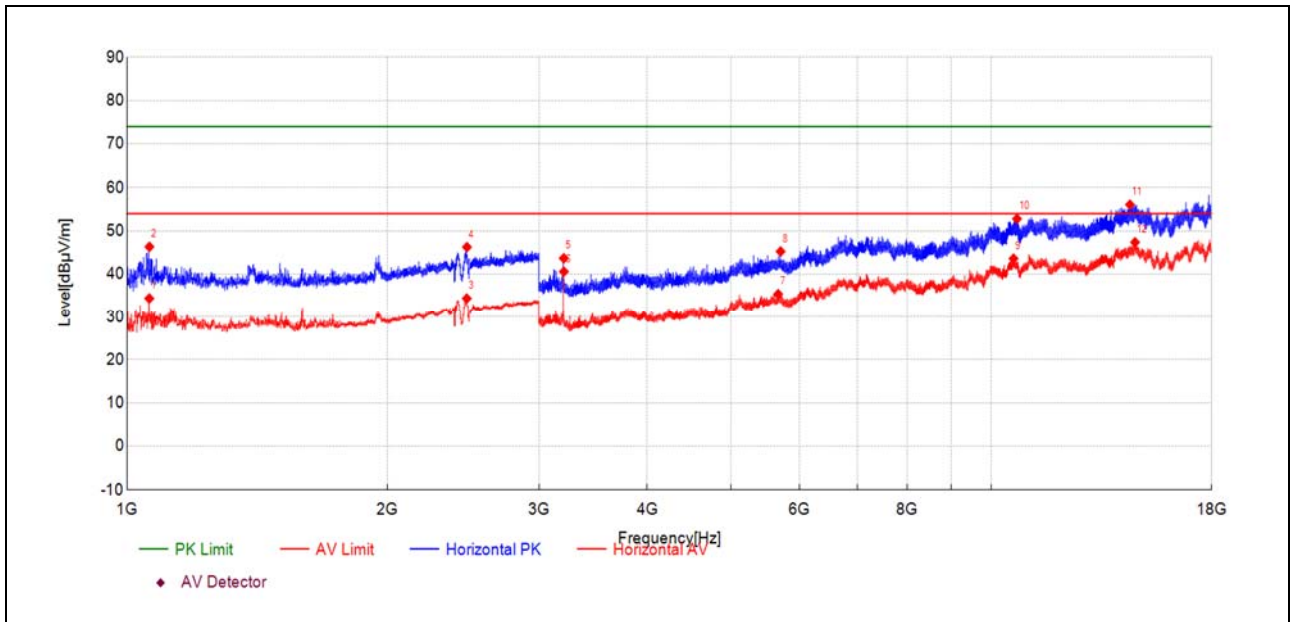
1Mbps

Plot for Channel 0



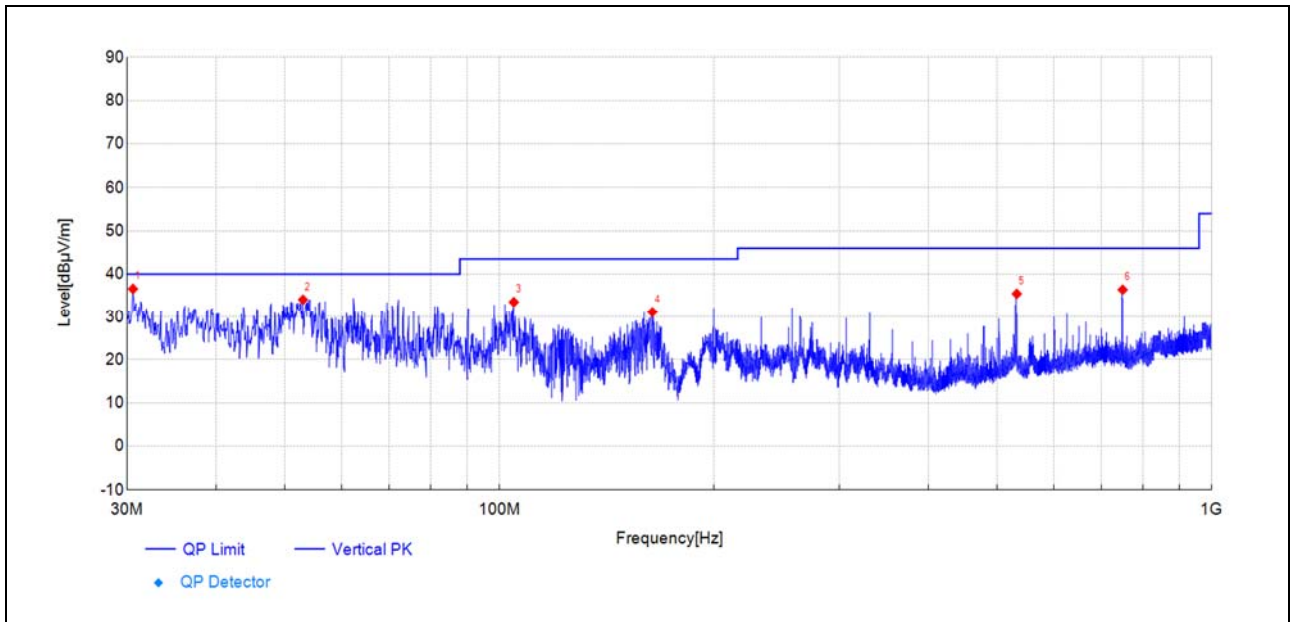
(Antenna Horizontal, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
55.85	62.0	33.98	-28.010	40.00	6.02	150	334	PK	PASS
104.74	67.6	38.29	-29.300	43.50	5.21	150	341	PK	PASS
163.92	66.9	35.87	-31.050	43.50	7.63	150	178	PK	PASS
250.01	66.6	39.11	-27.490	46.00	6.89	150	359	PK	PASS
531.13	53.6	34.62	-18.930	46.00	11.38	150	164	PK	PASS
798.42	42.2	27.65	-14.570	46.00	18.35	150	348	PK	PASS



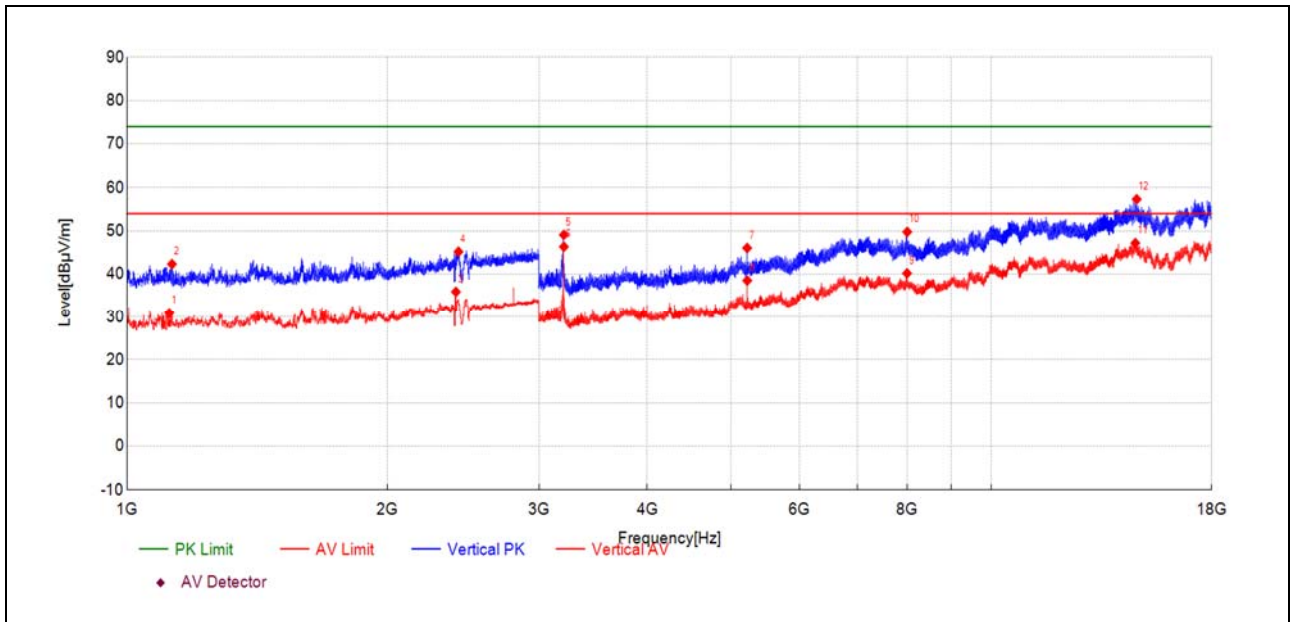
(Antenna Horizontal, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
1061.21	37.0	34.36	-2.660	54.00	19.64	150	1	AV	PASS
1061.61	49.0	46.33	-2.640	74.00	27.67	150	1	PK	PASS
2472.69	28.5	34.36	5.910	54.00	19.64	150	193	AV	PASS
2473.89	40.4	46.26	5.900	74.00	27.74	150	90	PK	PASS
3202.72	54.6	43.67	-10.880	74.00	30.33	150	158	PK	PASS
3203.15	51.5	40.58	-10.880	54.00	13.42	150	158	AV	PASS
5669.22	36.5	35.37	-1.100	54.00	18.63	150	319	AV	PASS
5706.08	46.0	45.25	-0.760	74.00	28.75	150	158	PK	PASS
10615.07	31.4	43.59	12.150	54.00	10.41	150	185	AV	PASS
10713.65	40.5	52.80	12.330	74.00	21.20	150	130	PK	PASS
14477.47	36.5	56.06	19.550	74.00	17.94	150	76	PK	PASS
14672.48	26.8	47.37	20.530	54.00	6.63	150	9	AV	PASS



(Antenna Vertical, 30MHz to 1GHz)

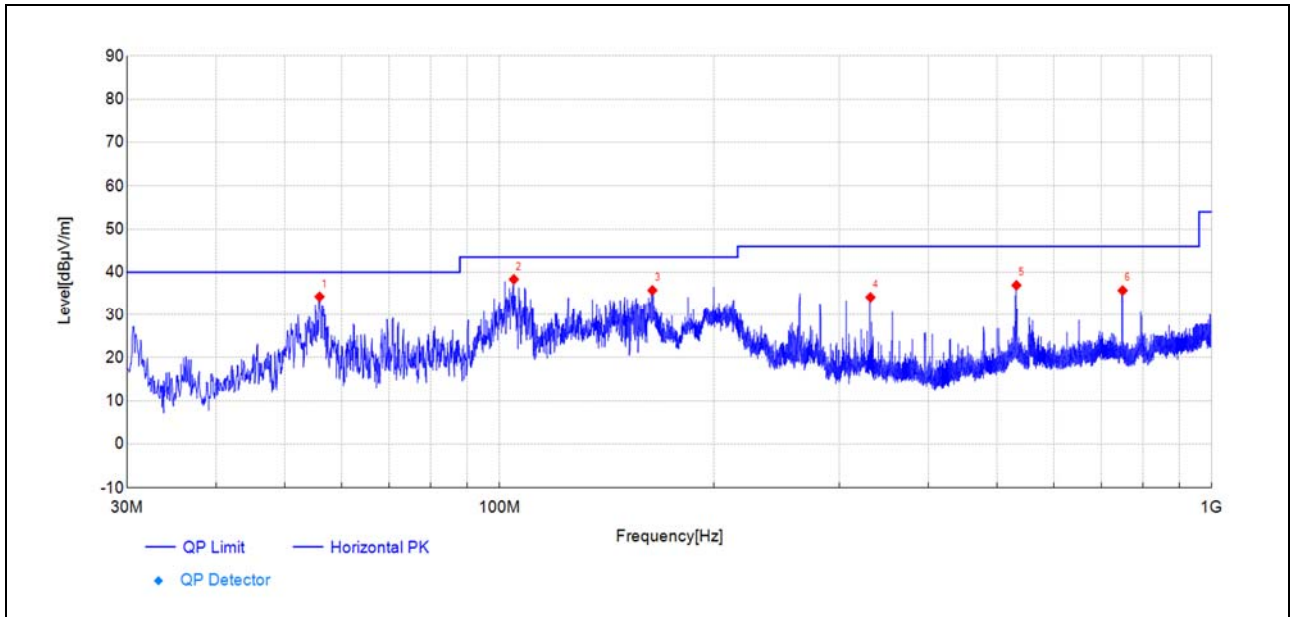
Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
30.58	67.3	36.56	-30.750	40.00	3.44	150	241	PK	PASS
52.99	61.8	34.06	-27.770	40.00	5.94	150	347	PK	PASS
104.74	62.8	33.50	-29.300	43.50	10.00	150	130	PK	PASS
163.96	62.2	31.12	-31.040	43.50	12.38	150	72	PK	PASS
532.53	54.4	35.42	-18.990	46.00	10.58	150	220	PK	PASS
749.97	51.2	36.38	-14.840	46.00	9.62	150	340	PK	PASS



(Antenna Vertical, 1GHz to 18GHz)

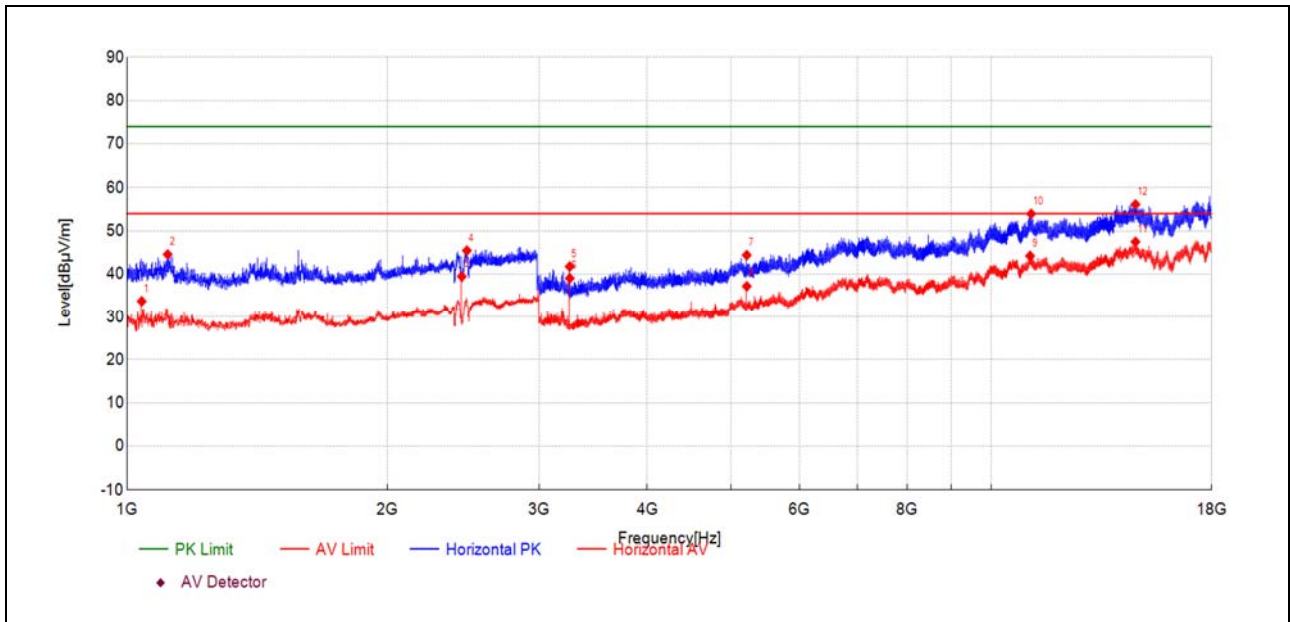
Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
1119.22	33.1	30.87	-2.190	54.00	23.13	150	137	AV	PASS
1127.23	44.5	42.33	-2.140	74.00	31.67	150	132	PK	PASS
2402.28	30.6	35.89	5.250	54.00	18.11	150	148	AV	PASS
2418.68	39.7	45.20	5.500	74.00	28.80	150	170	PK	PASS
3202.72	60.0	49.09	-10.880	74.00	24.91	150	76	PK	PASS
3203.15	57.2	46.34	-10.880	54.00	7.66	150	64	AV	PASS
5219.63	49.4	46.04	-3.330	74.00	27.96	150	130	PK	PASS
5220.92	41.8	38.51	-3.310	54.00	15.49	150	130	AV	PASS
7992.57	35.1	40.19	5.050	54.00	13.81	150	64	AV	PASS
7996.86	44.7	49.78	5.120	74.00	24.22	150	64	PK	PASS
14684.05	26.6	47.19	20.560	54.00	6.81	150	117	AV	PASS
14738.48	37.1	57.33	20.270	74.00	16.67	150	330	PK	PASS

Plot for Channel 19



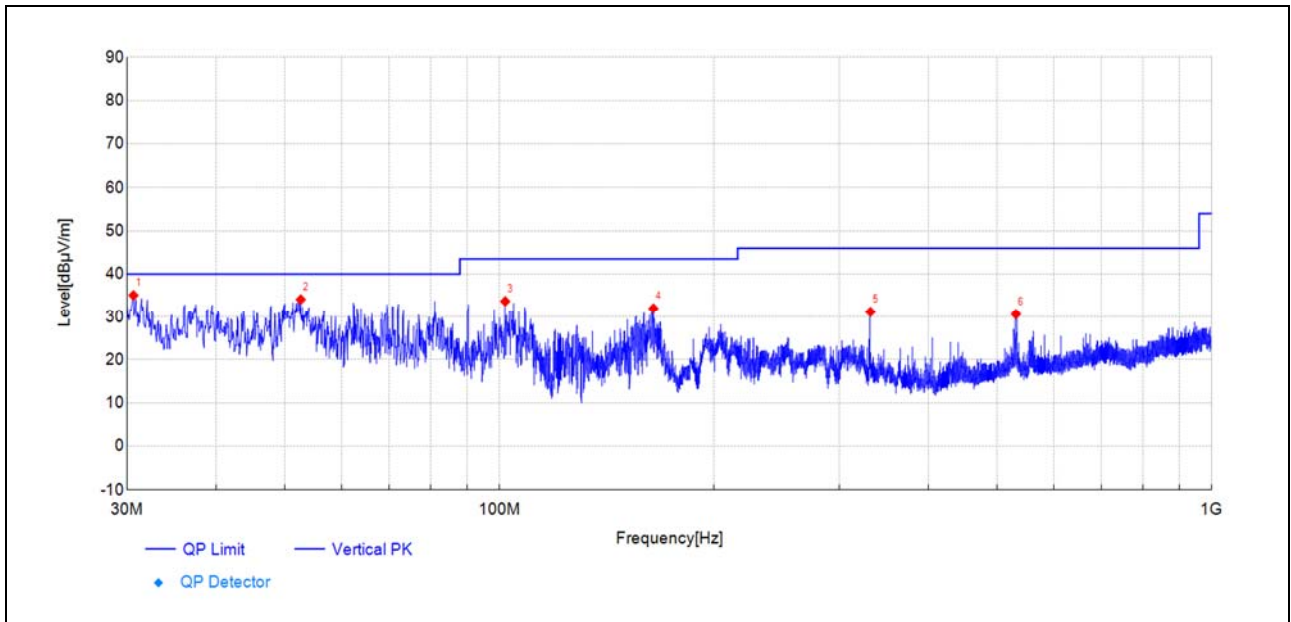
(Antenna Horizontal, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
55.90	62.3	34.30	-28.020	40.00	5.70	150	0	PK	PASS
104.74	67.6	38.34	-29.300	43.50	5.16	150	295	PK	PASS
163.96	66.8	35.79	-31.040	43.50	7.71	150	209	PK	PASS
331.78	58.5	34.15	-24.390	46.00	11.85	150	40	PK	PASS
531.95	55.9	36.97	-18.970	46.00	9.03	150	174	PK	PASS
749.97	50.6	35.74	-14.840	46.00	10.26	150	281	PK	PASS



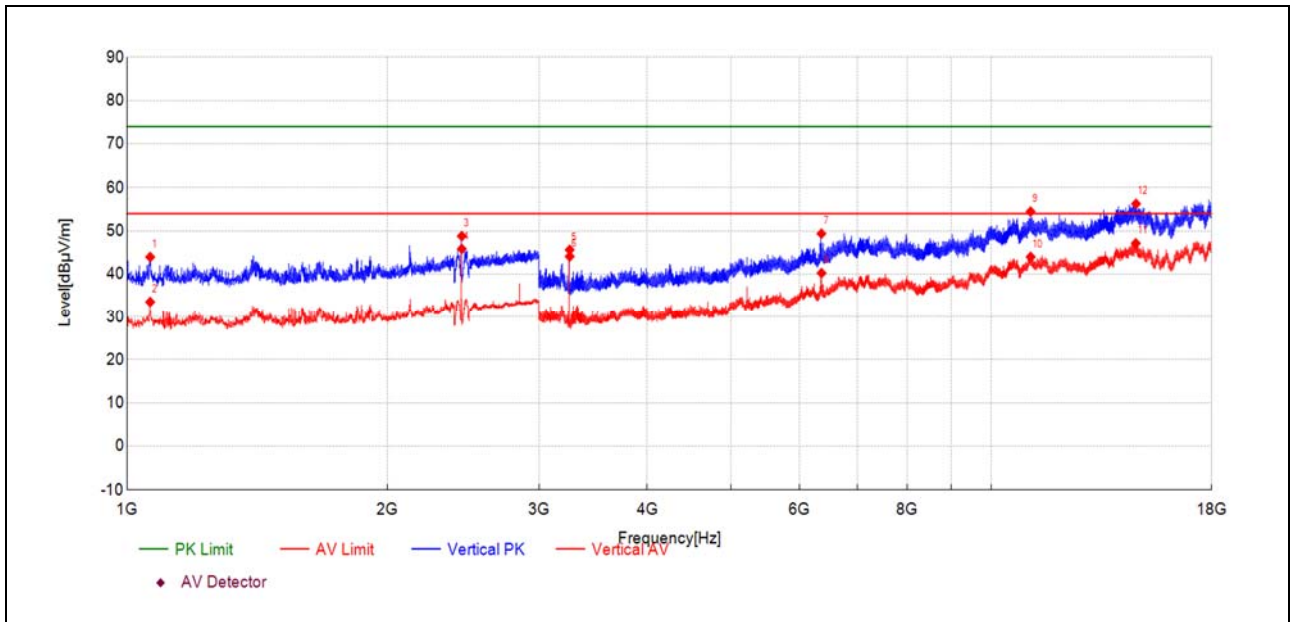
(Antenna Horizontal, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
1040.01	36.5	33.69	-2.820	54.00	20.31	150	1	AV	PASS
1114.42	46.8	44.57	-2.230	74.00	29.43	150	160	PK	PASS
2440.29	33.6	39.46	5.820	-	-	150	132	AV	NA
2473.49	39.5	45.45	5.910	74.00	28.55	150	241	PK	PASS
3253.29	53.1	41.76	-11.310	74.00	32.24	150	250	PK	PASS
3253.72	50.4	39.04	-11.310	54.00	14.96	150	250	AV	PASS
5213.21	47.8	44.40	-3.440	74.00	29.60	150	24	PK	PASS
5214.49	40.6	37.18	-3.420	54.00	16.82	150	24	AV	PASS
11093.80	30.2	44.22	14.000	54.00	9.78	150	184	AV	PASS
11125.52	40.0	53.96	13.920	74.00	20.04	150	116	PK	PASS
14690.05	26.9	47.48	20.570	54.00	6.52	150	9	AV	PASS
14691.76	35.5	56.12	20.580	74.00	17.88	150	24	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
30.63	65.8	35.06	-30.750	40.00	4.94	150	210	PK	PASS
52.60	61.9	34.09	-27.850	40.00	5.91	150	288	PK	PASS
101.88	63.3	33.66	-29.600	43.50	9.84	150	118	PK	PASS
164.50	63.2	31.97	-31.220	43.50	11.53	150	32	PK	PASS
331.78	55.5	31.15	-24.390	46.00	14.85	150	309	PK	PASS
531.03	49.5	30.61	-18.930	46.00	15.39	150	210	PK	PASS

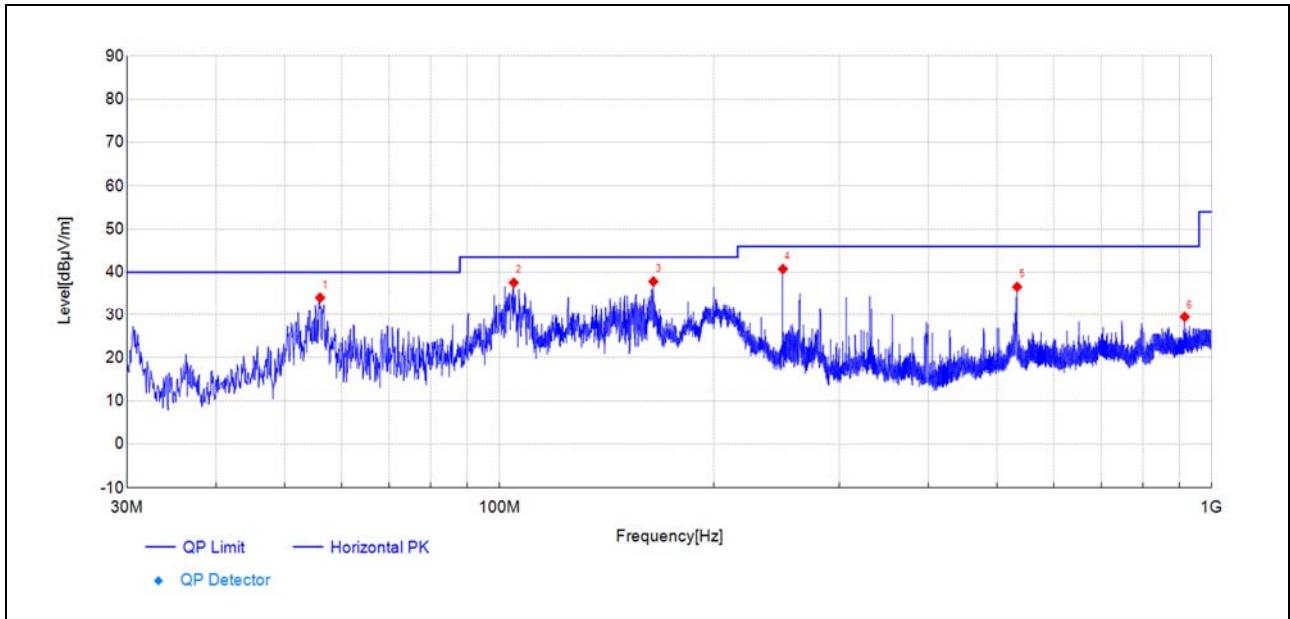


(Antenna Vertical, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
1063.61	46.6	43.96	-2.640	74.00	30.04	150	55	PK	PASS
1063.61	36.2	33.53	-2.640	54.00	20.47	150	55	AV	PASS
2439.89	43.0	48.81	5.820	-	-	150	142	PK	NA
2440.29	40.0	45.84	5.820	-	-	150	142	AV	NA
3253.29	56.9	45.63	-11.310	74.00	28.37	150	64	PK	PASS
3253.72	55.4	44.10	-11.310	54.00	9.90	150	144	AV	PASS
6361.81	48.2	49.38	1.160	74.00	24.62	150	157	PK	PASS
6364.81	39.1	40.25	1.140	54.00	13.75	150	144	AV	PASS
11108.37	40.4	54.47	14.030	74.00	19.53	150	170	PK	PASS
11110.52	30.0	44.00	14.020	54.00	10.00	150	264	AV	PASS
14703.33	26.6	47.15	20.570	54.00	6.85	150	345	AV	PASS
14711.91	35.8	56.27	20.500	74.00	17.73	150	184	PK	PASS

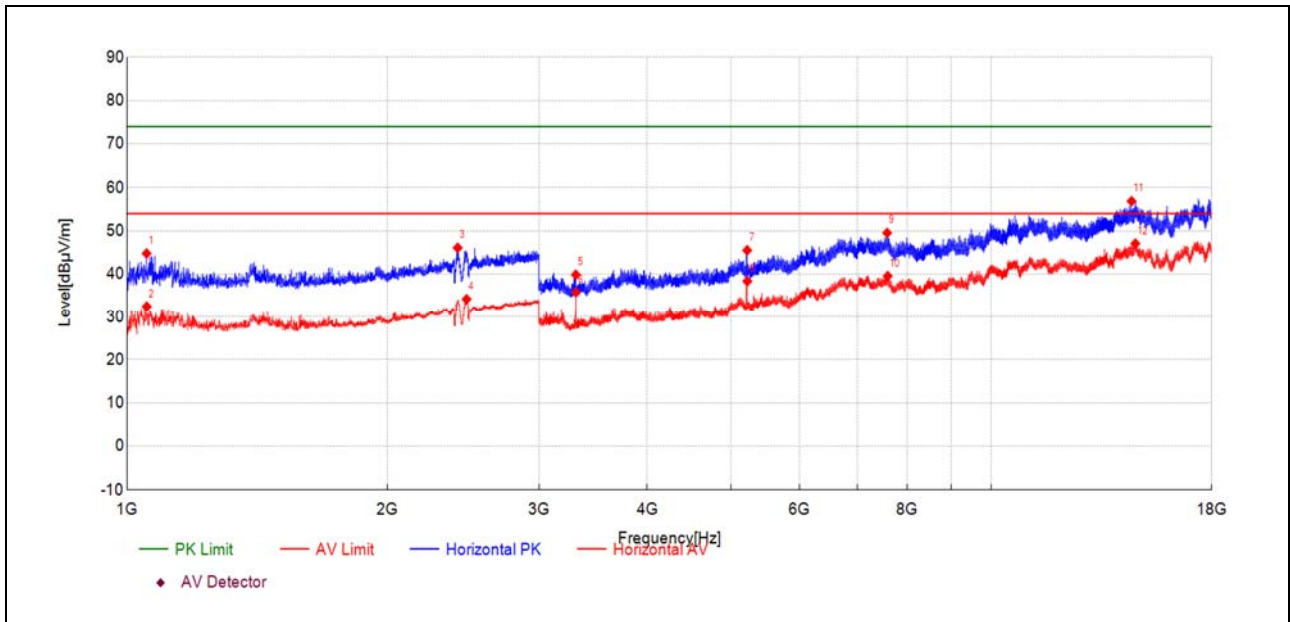


Plot for Channel 39



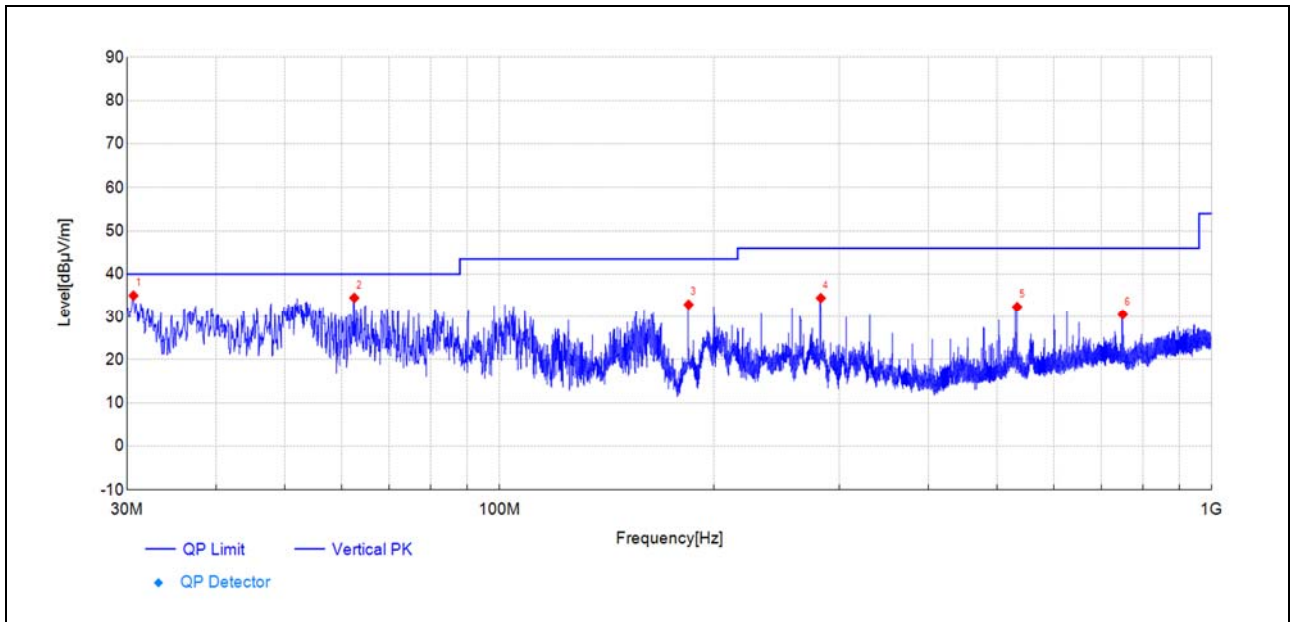
(Antenna Horizontal, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
56.00	62.1	34.09	-28.050	40.00	5.91	150	359	PK	PASS
104.74	66.9	37.57	-29.300	43.50	5.93	150	334	PK	PASS
164.50	69.1	37.86	-31.220	43.50	5.64	150	207	PK	PASS
250.01	68.2	40.75	-27.490	46.00	5.25	150	359	PK	PASS
533.16	55.6	36.60	-19.020	46.00	9.40	150	137	PK	PASS
916.67	41.4	29.42	-11.930	46.00	16.58	150	87	PK	PASS



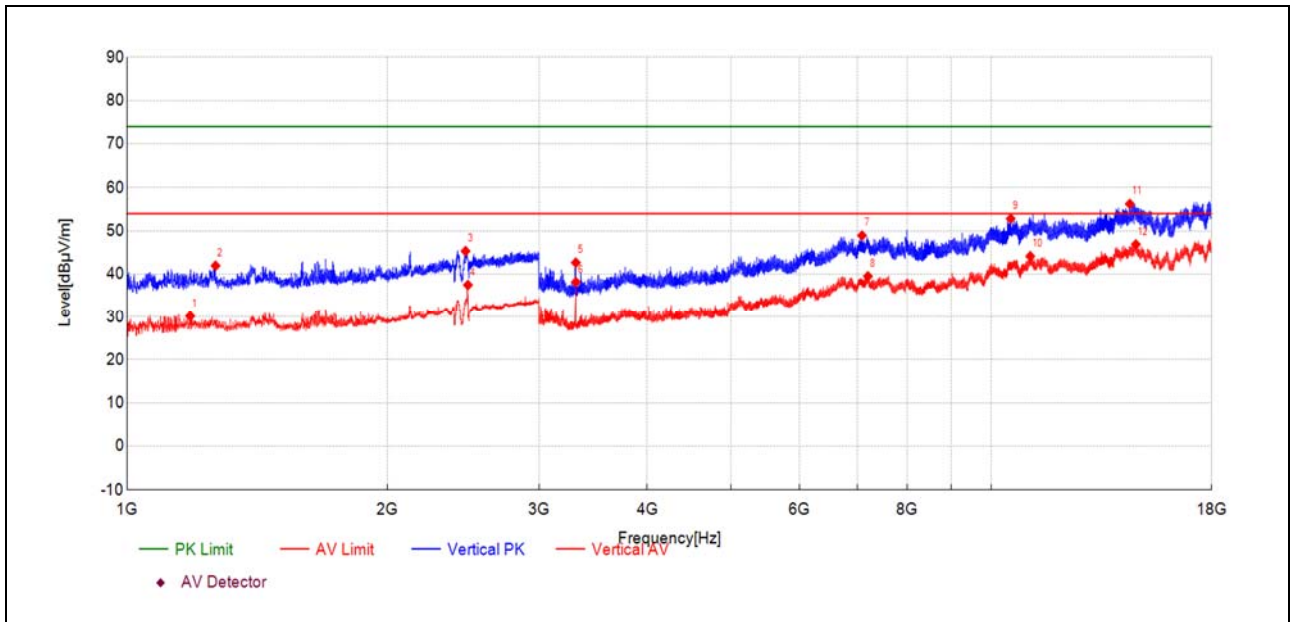
(Antenna Horizontal, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
1053.61	47.5	44.78	-2.720	74.00	29.22	150	351	PK	PASS
1054.01	35.2	32.45	-2.700	54.00	21.55	150	351	AV	PASS
2413.48	40.7	46.09	5.420	74.00	27.91	150	324	PK	PASS
2471.49	28.3	34.19	5.910	54.00	19.81	150	166	AV	PASS
3306.44	50.9	39.86	-11.000	74.00	34.14	150	265	PK	PASS
3307.29	46.8	35.78	-10.990	54.00	18.22	150	265	AV	PASS
5219.63	48.8	45.51	-3.330	74.00	28.49	150	144	PK	PASS
5222.21	41.6	38.34	-3.290	54.00	15.66	150	144	AV	PASS
7579.85	44.8	49.54	4.750	74.00	24.46	150	184	PK	PASS
7591.85	34.7	39.55	4.860	54.00	14.45	150	360	AV	PASS
14538.76	36.9	56.87	20.010	74.00	17.13	150	169	PK	PASS
14685.76	26.5	47.05	20.560	54.00	6.95	150	9	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
30.63	65.8	35.01	-30.750	40.00	4.99	150	159	PK	PASS
62.55	63.3	34.48	-28.790	40.00	5.52	150	68	PK	PASS
184.33	63.0	32.90	-30.090	43.50	10.60	150	245	PK	PASS
282.60	60.7	34.43	-26.310	46.00	11.57	150	273	PK	PASS
533.16	51.4	32.35	-19.020	46.00	13.65	150	173	PK	PASS
750.02	45.4	30.52	-14.840	46.00	15.48	150	102	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
1183.24	31.5	30.13	-1.380	54.00	23.87	150	112	AV	PASS
1266.05	43.3	41.95	-1.300	74.00	32.05	150	150	PK	PASS
2464.69	39.4	45.33	5.930	74.00	28.67	150	199	PK	PASS
2480.30	31.6	37.48	5.890	54.00	16.52	150	150	AV	PASS
3306.87	53.7	42.66	-11.000	74.00	31.34	150	144	PK	PASS
3307.29	49.2	38.16	-10.990	54.00	15.84	150	144	AV	PASS
7089.55	44.8	48.93	4.140	74.00	25.07	150	129	PK	PASS
7201.41	34.4	39.50	5.100	54.00	14.50	150	264	AV	PASS
10534.93	40.8	52.85	12.030	74.00	21.15	150	197	PK	PASS
11098.95	30.1	44.14	14.060	54.00	9.86	150	89	AV	PASS
14470.61	36.8	56.24	19.470	74.00	17.76	150	104	PK	PASS
14706.33	26.3	46.88	20.540	54.00	7.12	150	304	AV	PASS

————— END OF REPORT —————