

FCC TEST REPORT

Product Name: Digital Satellite Set Top Box
Trade Mark: JIUZHOU
Model No.: DTS3443
Add. Model No.: N/A
Report Number: 200217009EMC-1
Test Standards: FCC 47 CFR Part 15 Subpart B
FCC ID: 2AL9Q-DTS3443
Test Result: PASS
Date of Issue: March 6, 2020

Prepared for:

Shenzhen Jiuzhou Electric Co., Ltd.
6F, Jiuzhou Electric Building, Southern No. 12 Rd., High-tech
Industrial Park, Nanshan District, Shenzhen, China

Prepared by:

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Prepared by:



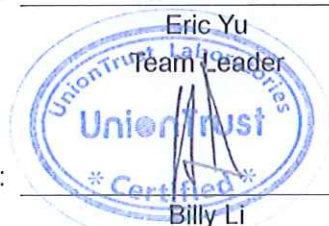
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March 6, 2020

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Version

Version No.	Date	Description
V1.0	March 6, 2020	Original



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1. GENERAL INFORMATION

1.1 CLIENT INFORMATION

Applicant:	Shenzhen Jiuzhou Electric Co., Ltd.
Address of Applicant:	6F, Jiuzhou Electric Building, Southern No. 12 Rd., High-tech Industrial Park, Nanshan District, Shenzhen, China
Manufacturer:	Shenzhen Jiuzhou Electric Co., Ltd.
Address of Manufacturer:	6F, Jiuzhou Electric Building, Southern No. 12 Rd., High-tech Industrial Park, Nanshan District, Shenzhen, China

1.2 EUT INFORMATION

1.2.1 General Description of EUT

Product Name:	Digital Satellite Set Top Box
Model No.:	DTS3443
Add. Model No.:	N/A
Trade Mark:	JIUZHOU
DUT Stage:	Production Unit
Power Supply:	12V $\Rightarrow$ 1.5A
Classification of digital devices:	Class B
Highest Internal Frequency:	933 MHz
Software Version:	V1.0
Hardware Version:	V1.0
Sample Received Date:	February 19, 2020
Sample Tested Date:	February 19, 2020 to March 3, 2020

1.2.2 Description of Accessories

Adapter 1	
Model No.:	RD1201500-C55-153MG
Input:	100-240 V~50/60 Hz 0.6 A Max
Output:	12V $\Rightarrow$ 1.5 A
DC Cable:	1.50 Meter, Unshielded without ferrite
Manufacturer:	Shenzhen RuiDe Electronic Industrial Co., Ltd.

Adapter 2	
Model No.:	GLH1201500
Input:	100-240 V~50/60 Hz 0.5 A Max
Output:	12V $\Rightarrow$ 1.5 A
DC Cable:	1.50 Meter, Unshielded without ferrite

Cable(1)	
Description:	HDMI Cable
Cable Type:	shielded without ferrite
Length:	1.50 Meter

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Cable(2)	
Description:	AV Cable
Cable Type:	Unshielded without ferrite
Length:	1.20 Meter

1.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested with associated equipment below.

1) Support Equipment

Description	Manufacturer	Model No.	Serial Number	Supplied by
DTV PC	DELL	FT4Y23X	34413561645	UnionTrust
Monitor	DELL	E1916HVI	CN-01MRJV-72872-61D-CRJU-A00	UnionTrust
Dummy load	UnionTrust	E214887	---	UnionTrust
USB flash disk	Kingston	DTSE9	---	UnionTrust
Monitor	LG	U320S	187A3028-00001D	Union Trust

2) Support Cable

Description	Quantity	Cable Type	Length (m)	Supplied by
Signal Cable	1	Shielded without ferrite	1.5	UnionTrust
SPDIF Cable	1	Unshielded without ferrite	1.5	UnionTrust

1.4 TEST LOCATION

Shenzhen UnionTrust Quality and Technology Co., Ltd.

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1.5 TEST FACILITY

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L9069

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable under the ISO/IEC/EN 17025 to international or national standards. Equipment has been calibrated by accredited calibration laboratories.

A2LA-Lab Certificate No.: 4312.01

Shenzhen UnionTrust Quality and Technology Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

ISED Wireless Device Testing Laboratories

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CAB identifier: CN0032

FCC Accredited Lab.

Designation Number: CN1194

Test Firm Registration Number: 259480

1.6 DEVIATION FROM STANDARDS

None.

1.7 ABNORMALITIES FROM STANDARD CONDITIONS

None.

1.8 OTHER INFORMATION REQUESTED BY THE CUSTOMER

None.

1.9 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Measurement Uncertainty
1	Conducted emission 9KHz-150KHz	±3.8 dB
2	Conducted emission 150KHz-30MHz	±3.4 dB
3	Radiated emission 9KHz-30MHz	±4.9 dB
4	Radiated emission 30MHz-1GHz	±4.7 dB
5	Radiated emission 1GHz-18GHz	±5.1 dB
6	Radiated emission 18GHz-26GHz	±5.2 dB
7	Radiated emission 26GHz-40GHz	±5.2 dB

2. TEST SUMMARY

FCC 47 CFR Part 15 Subpart B Test Cases			
Test Item	Test Requirement	Test Method	Result
Conducted Emission	FCC 47 CFR Part 15.107	ANSI C63.4-2014	PASS
Radiated Emission	FCC 47 CFR Part 15.109	ANSI C63.4-2014	PASS

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3. EQUIPMENT LIST

Radiated Emission Test - 3M Chamber						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm dd, yyyy)	Cal. Due date (mm dd, yyyy)
☒	3M Chamber & Accessory Equipment	ETS-LINDGREN	3M	N/A	Dec. 03, 2018	Dec. 03, 2021
☒	Receiver	R&S	ESIB26	100114	Nov. 23, 2019	Nov. 23, 2020
☒	Broadband Antenna	ETS-LINDGREN	3142E	00201566	Nov. 16, 2019	Nov. 15, 2020
☒	6dB Attenuator	Talent	RA6A5-N-18	18103001	Nov. 16, 2019	Nov. 15, 2020
☒	Preamplifier	HP	8447F	2805A02960	Nov. 23, 2019	Nov. 23, 2020
☒	Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3117-PA	00201874	Nov. 23, 2019	Nov. 23, 2020
☒	Multi device Controller	ETS-LINDGREN	7006-001	00160105	N/A	N/A
☒	Test Software	Audix	e3	Software Version: 9.160323		

Conducted Emission Test Equipment List						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm dd, yyyy)	Cal. Due date (mm dd, yyyy)
☒	Receiver	R&S	ESR7	1316.3003K07-101181-K3	Nov. 24, 2019	Nov. 23, 2020
☒	Pulse Limiter	R&S	ESH3-Z2	0357.8810.54	Nov. 24, 2019	Nov. 23, 2020
☒	LISN	R&S	ESH2-Z5	860014/024	Nov. 24, 2019	Nov. 23, 2020
☒	LISN	ETS-Lindgren	3816/2SH	00201088	Nov. 24, 2019	Nov. 23, 2020
☒	Test Software	Audix	e3	Software Version: 9.160323		

4. TEST CONFIGURATION

4.1 ENVIRONMENTAL CONDITIONS FOR TESTING

4.1.1 Normal or Extreme Test Conditions

Environment Parameter	Selected Values During Tests		
Test Condition	Ambient		
	Temperature (°C)	Voltage	Relative Humidity (%)
NT/NV	+15 to +35	1.AC 120V/60Hz 2.AC 24V/50Hz	20 to 75
Remark: 1) NV: Normal Voltage; NT: Normal Temperature			

4.1.2 Record of Normal Environment

Test Item	Temperature (°C)	Relative Humidity (%)	Pressure (Kpa)	Tested by
Conducted Emission	25.5	40.0	100.77	Bert Xiong
Radiated Emission	25.5	54.0	100.02	Andy Lin

4.2 TEST MODES

Test Item	EMI Test Modes
Radiated Emission	TM1: DVB-S+HDMI out (with adapter 1 for AC120V/60Hz) TM2: DVB-S2+AV out (with adapter 1 for AC120V/60Hz) TM3: USB+AV out (with adapter 1 for AC120V/60Hz) TM4: Worse case TM1~TM3 (with adapter 1 for AC240V/60Hz) TM5: Worse case TM1~TM4 (with adapter 2)
Conducted Emission	TM1: DVB-S+HDMI out (with adapter 1 for AC120V/60Hz) TM2: DVB-S2+AV out (with adapter 1 for AC120V/60Hz) TM3: USB+AV out (with adapter 1 for AC120V/60Hz) TM4: Worse case TM1~TM3 (with adapter 1 for AC240V/60Hz) TM5: Worse case TM1~TM4 (with adapter 2)

4.3 TEST SETUP

4.3.1 For Radiated Emissions test setup

Figure 1. 30MHz to 1GHz

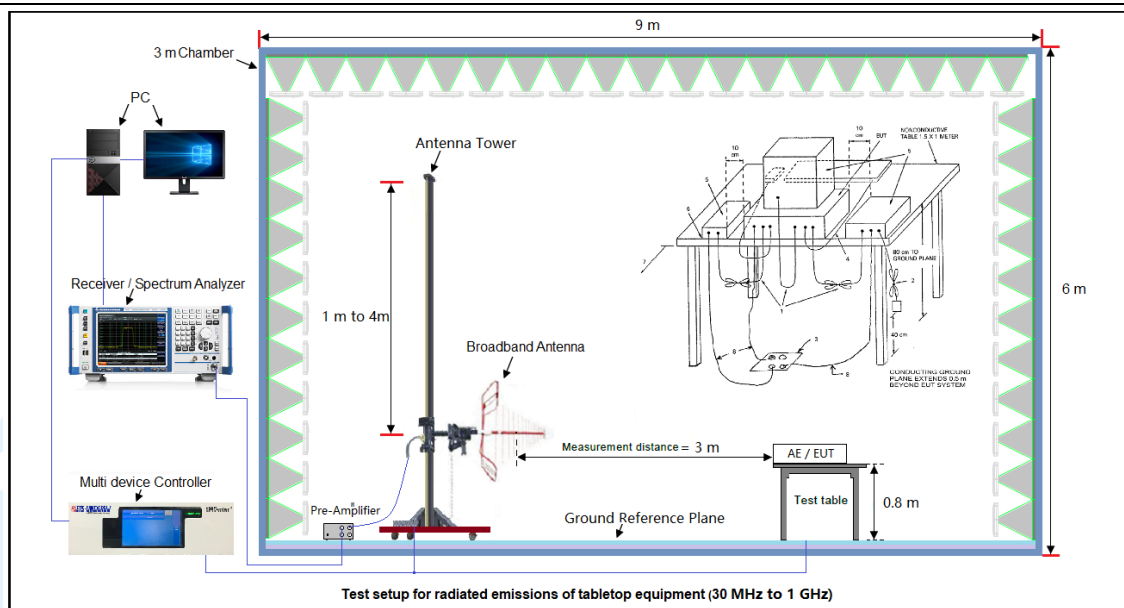
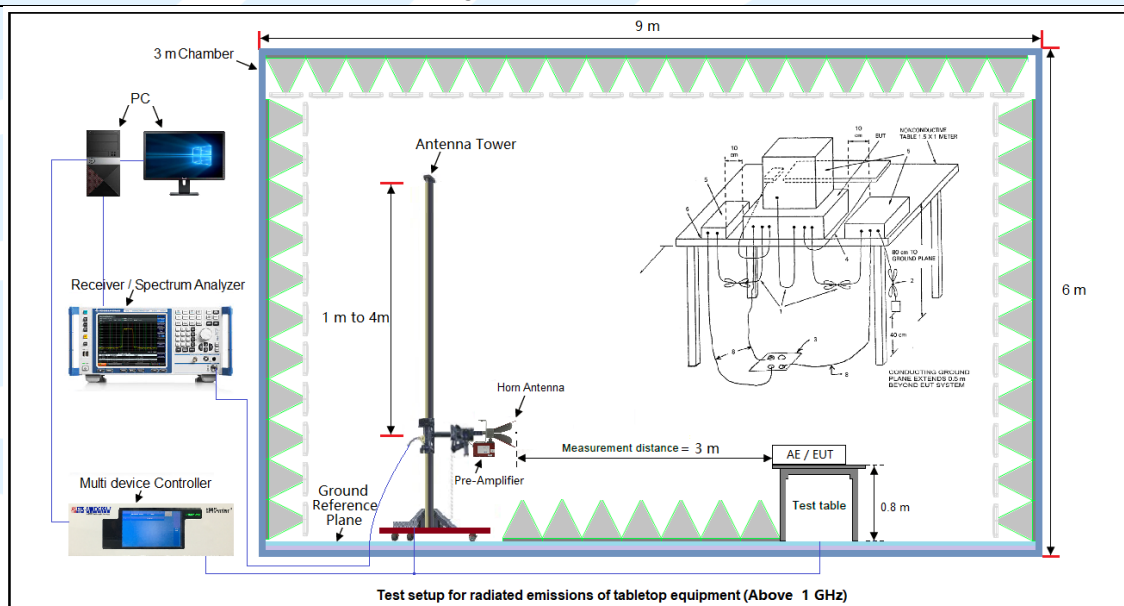
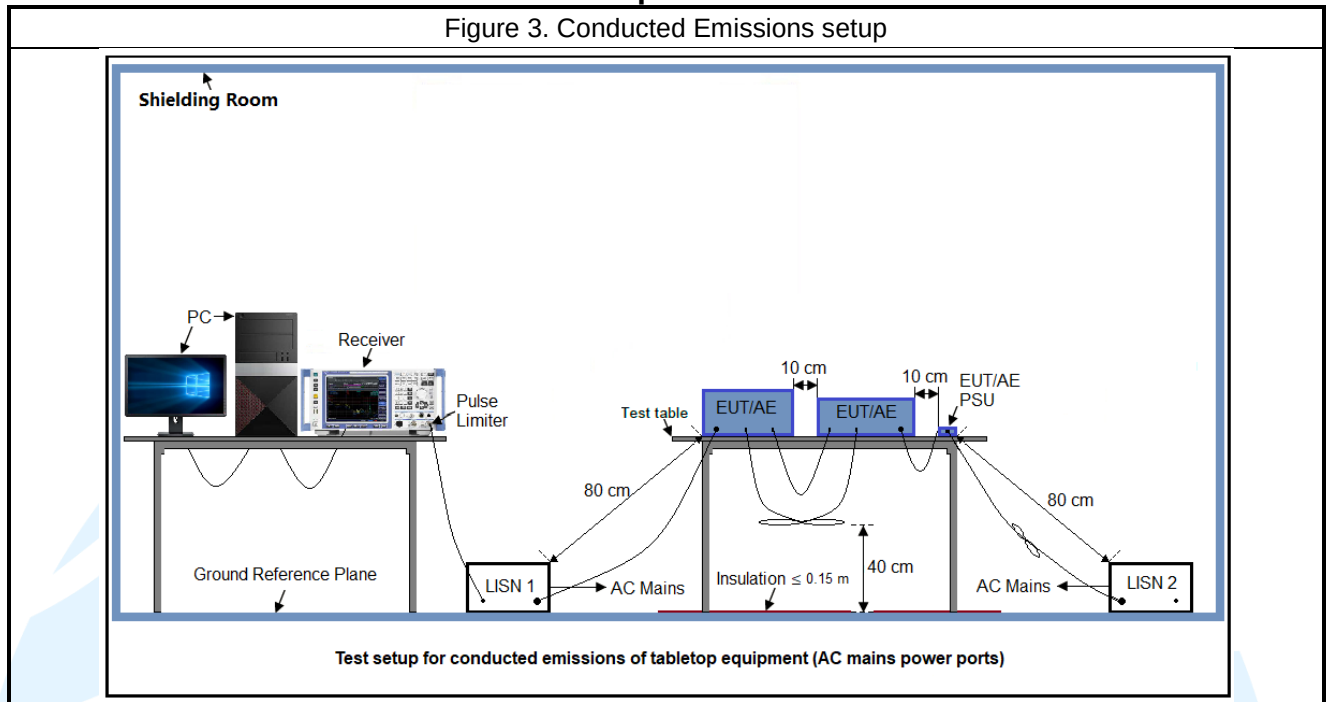


Figure 2. Above 1GHz



4.3.2 For Conducted Emissions test setup



4.4 SYSTEM TEST CONFIGURATION

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000MHz. The resolution is 1 MHz or greater for frequencies above 1000MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

Radiated emission measurement were performed from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic (according to KDB 896810 D02 SDoC FAQ v01r01) of the highest fundamental frequency or to 40 GHz, whichever is lower.

5. REFERENCE DOCUMENTS FOR TESTING

No.	Identity	Document Title
1	FCC 47 CFR Part15 Subpart B	Unintentional Radiators
2	ANSI C63.4-2014	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz
3	KDB 174176 D01 Line Conducted FAQ v01r01	AC power-line conducted emission frequency asked questions
4	KDB 896810 D02 SDoC FAQ v01r02	Supplier's Declaration of Conformity frequency asked questions

6. EMC REQUIREMENTS SPECIFICATION

6.1 RADIATED EMISSION

Test Requirement: FCC 47 CFR Part 15.109

Test Method: ANSI C63.4-2014

Receiver Setup:

Frequency: (f) (MHz)	Detector type	Measurement receiver bandwidth	
		RBW	VBW
$30 \leq f \leq 1\,000$	Quasi Peak	120 kHz	300 kHz
$f \geq 1000$	Peak	1 MHz	3 MHz
	Average	1 MHz	3 MHz

Measured frequency range

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30.
1.705-108	1000.
108-500	2000.
500-1000	5000.
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower.

Limits:

Limits for Class B devices

Frequency (MHz)	limits at 3m (dB μ V/m)		
	QP Detector	PK Detector	AV Detector
30-88	40.0	--	--
88-216	43.5	--	--
216-960	46.0	--	--
960 to 1000	54.0	--	--
Above 1000	--	74.0	54.0

Remark:

- The lower limit shall apply at the transition frequencies.
- Emission level (dB μ V/m) = 20 log Emission level (μ V/m).
- For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

Test Setup: Refer to section 4.3.1 for details.

Test Procedures:

- From 30 MHz to 1GHz test procedure as below:

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- 1) The Product was placed on the non-conductive turntable 0.8 m above the ground at a chamber.
- 2) Set the spectrum analyzer/receiver in Peak detector, Max Hold mode, and 120 kHz RBW. Record the maximum field strength of all the pre-scan process in the full band when the antenna is varied between 1~4 m in both horizontal and vertical, and the turntable is rotated from 0 to 360 degrees.
- 3) For each frequency whose maximum record was higher or close to limit, measure its QP value: vary the antenna's height and rotate the turntable from 0 to 360 degrees to find the height and degree where Product radiated the maximum emission, then set the test frequency analyzer/receiver to QP Detector and specified bandwidth with Maximum Hold Mode, and record the maximum value.

2. Above 1GHz test procedure as below:

- 1) The Product was placed on the non-conductive turntable 0.8 m above the ground at a chamber.
- 2) Set the spectrum analyzer/receiver in Peak detector, Max Hold mode, and 1MHz RBW. Record the maximum field strength of all the pre-scan process in the full band when the antenna is varied in both horizontal and vertical, and the turntable is rotated from 0 to 360 degrees.
- 3) For each frequency whose maximum record was higher or close to limit, measure its AV value: rotate the turntable from 0 to 360 degrees to find the degree where Product radiated the maximum emission, then set the test frequency analyzer/receiver to AV value and specified bandwidth with Maximum Hold Mode, and record the maximum value.

Equipment Used: Refer to section 3 for details.

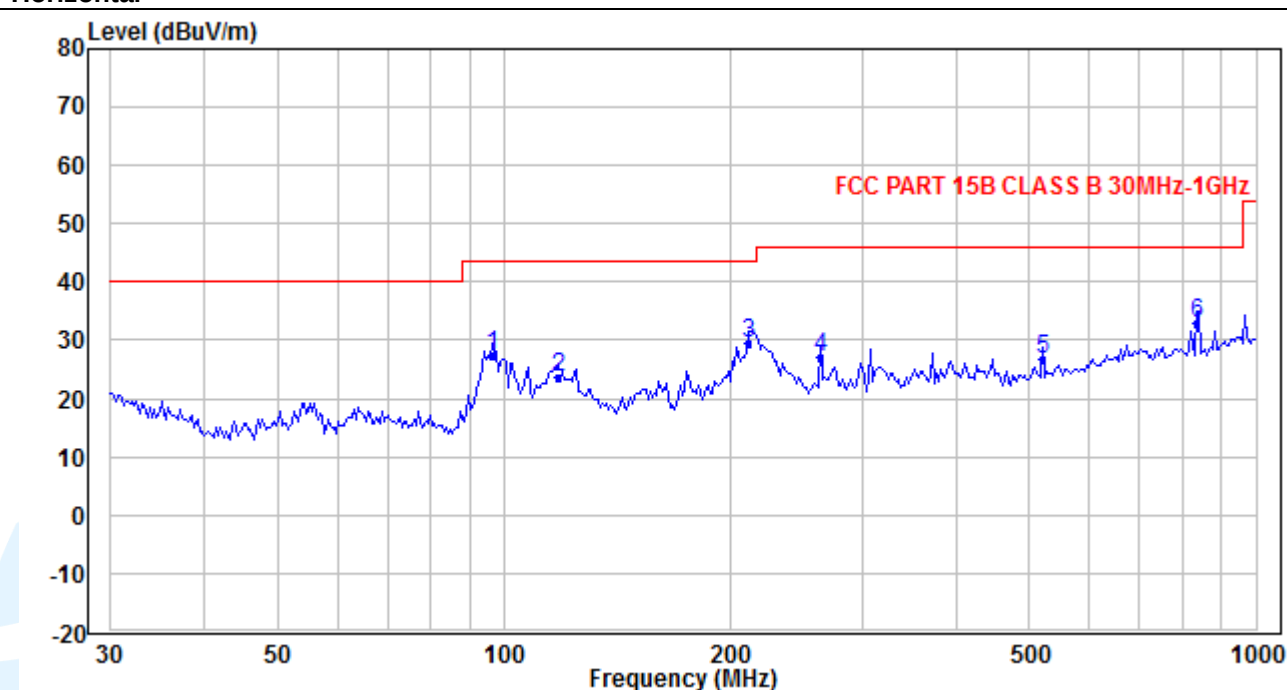
Test Result: Pass

The measurement data as follows:

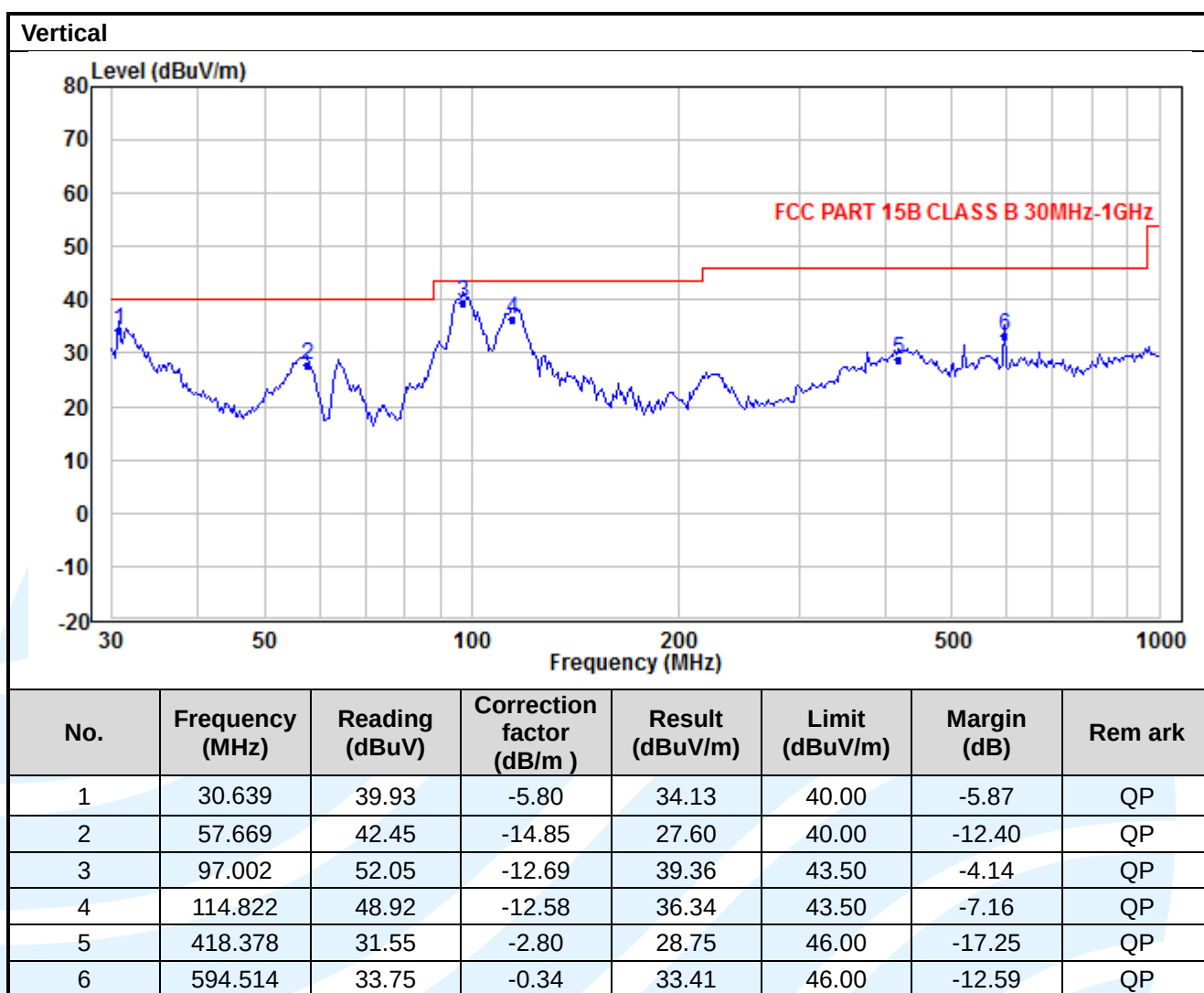
Below 1GHz(Quasi Peak):

TM5

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	96.323	40.27	-12.78	27.49	43.50	-16.01	QP
2	118.096	36.24	-12.66	23.58	43.50	-19.92	QP
3	211.611	39.07	-9.56	29.51	43.50	-13.99	QP
4	263.115	34.20	-7.17	27.03	46.00	-18.97	QP
5	520.208	28.02	-1.12	26.90	46.00	-19.10	QP
6	833.013	29.84	3.18	33.02	46.00	-12.98	QP



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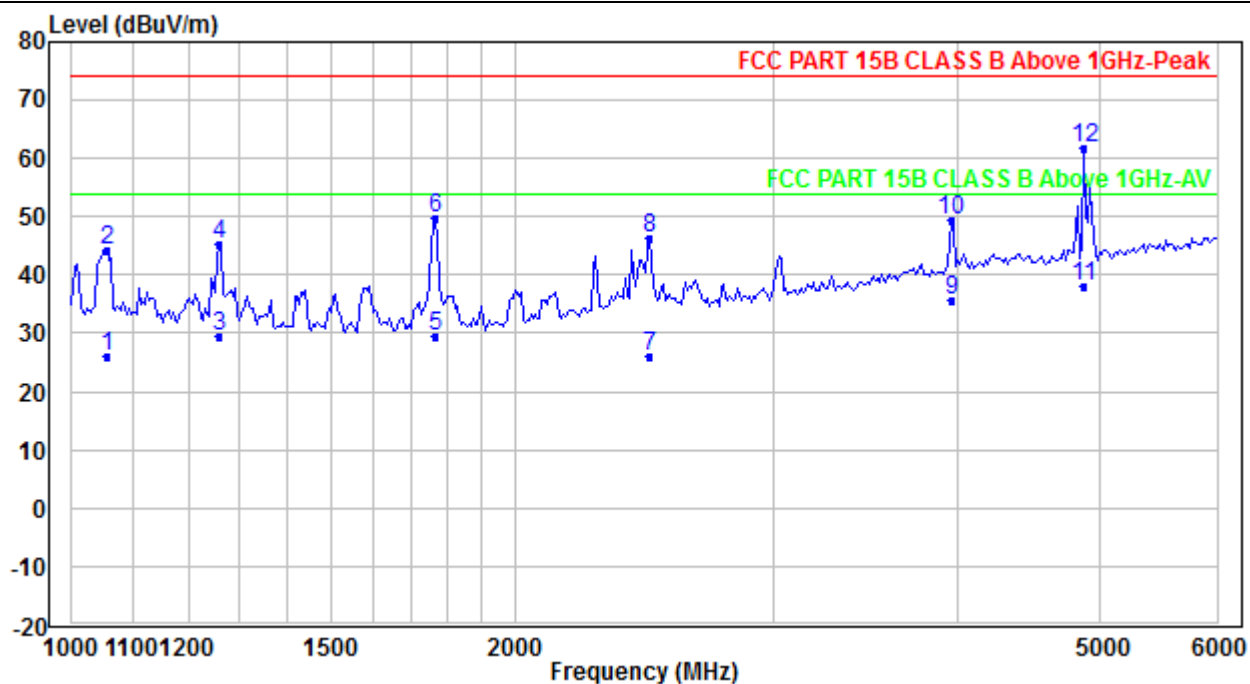
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Above 1GHz(Peak & Average)

TM2

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1055.337	37.58	-11.41	26.17	54.00	-27.83	AV
2	1055.337	55.58	-11.41	44.17	74.00	-29.83	PK
3	1258.354	40.25	-10.89	29.36	54.00	-24.64	AV
4	1258.354	56.25	-10.89	45.36	74.00	-28.64	PK
5	1763.553	36.95	-7.34	29.61	54.00	-24.39	AV
6	1763.553	56.95	-7.34	49.61	74.00	-24.39	PK
7	2471.577	26.51	-0.34	26.17	54.00	-27.83	AV
8	2471.577	46.51	-0.34	46.17	74.00	-27.83	PK
9	3956.019	31.14	4.37	35.51	54.00	-18.49	AV
10	3956.019	45.14	4.37	49.51	74.00	-24.49	PK
11	4871.972	33.61	4.32	37.93	54.00	-16.07	AV
12	4871.972	57.61	4.32	61.93	74.00	-12.07	PK

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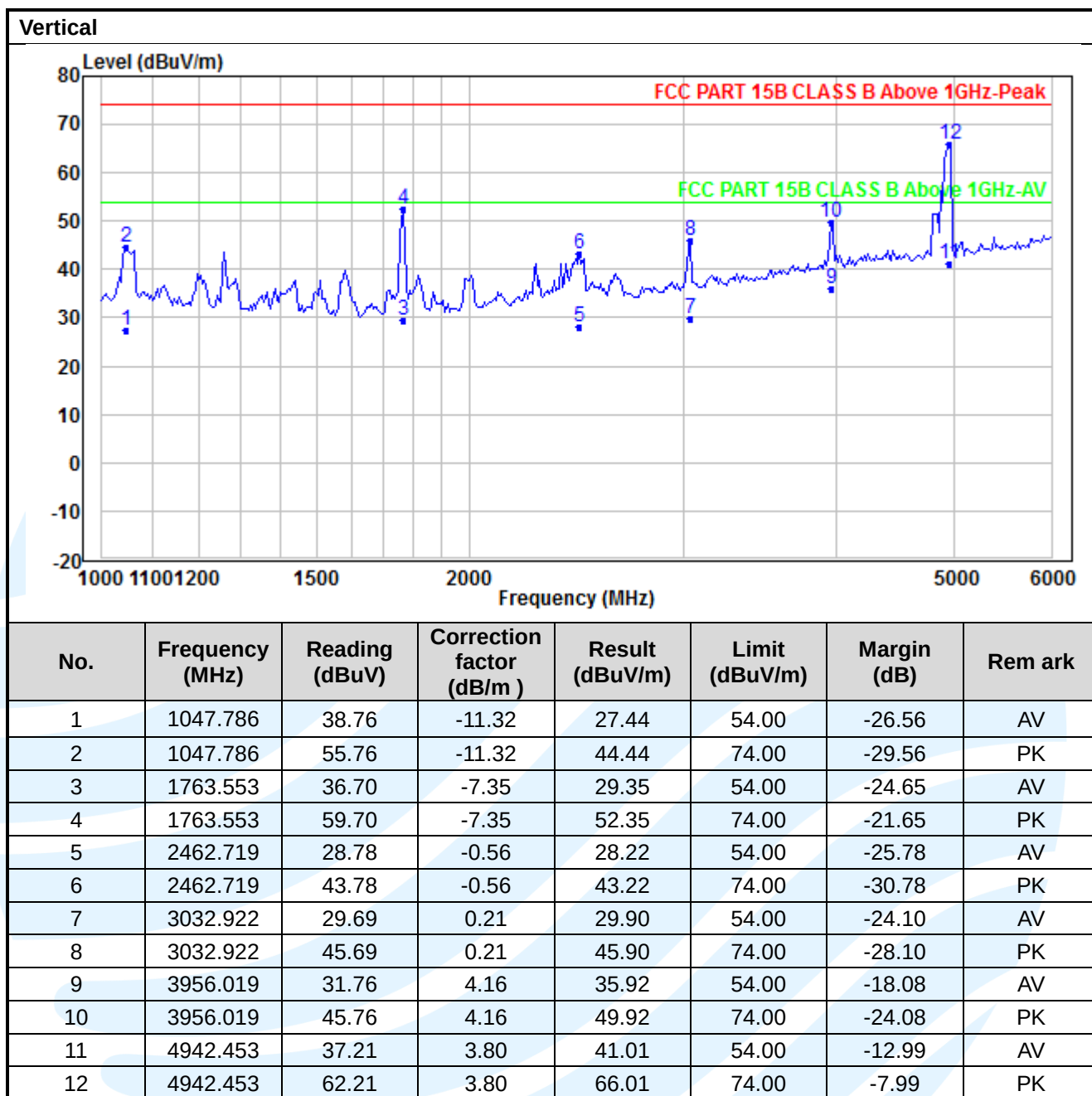
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Remark:

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
3. Margin = Result - Limit
4. All possible modes of operation were investigated, and testing at two nominal voltages of 240V/50Hz and 120V/60Hz, only the worst case emissions reported.
5. For Radiated Emission above 18GHz, there was not any unwanted emission detected.
6. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits.

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6.3 CONDUCTED EMISSION

Test Requirement: FCC 47 CFR Part 15.107

Test Method: ANSI C63.4-2014

Limits:

Limits for Class B devices

Frequency range (MHz)	Limits (dB(μV))	
	Quasi-peak	Average
0,15 to 0,50	66 to 56	56 to 46
0,50 to 5	56	46
5 to 30	60	50

Remark:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

Test Setup: Refer to section 4.3.2 for details.

Test Procedures:

- 1) The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- 2) The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.
- 3) For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

Equipment Used: Refer to section 3 for details.

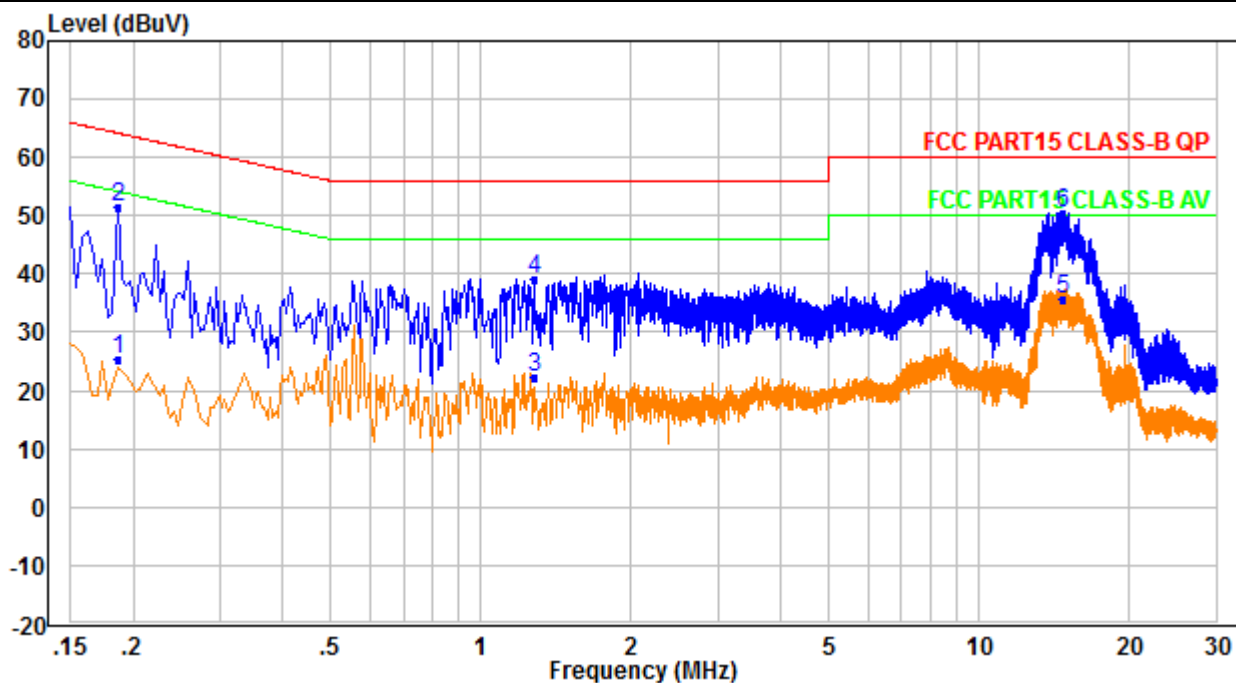
Test Result: Pass

The measurement data as follows:

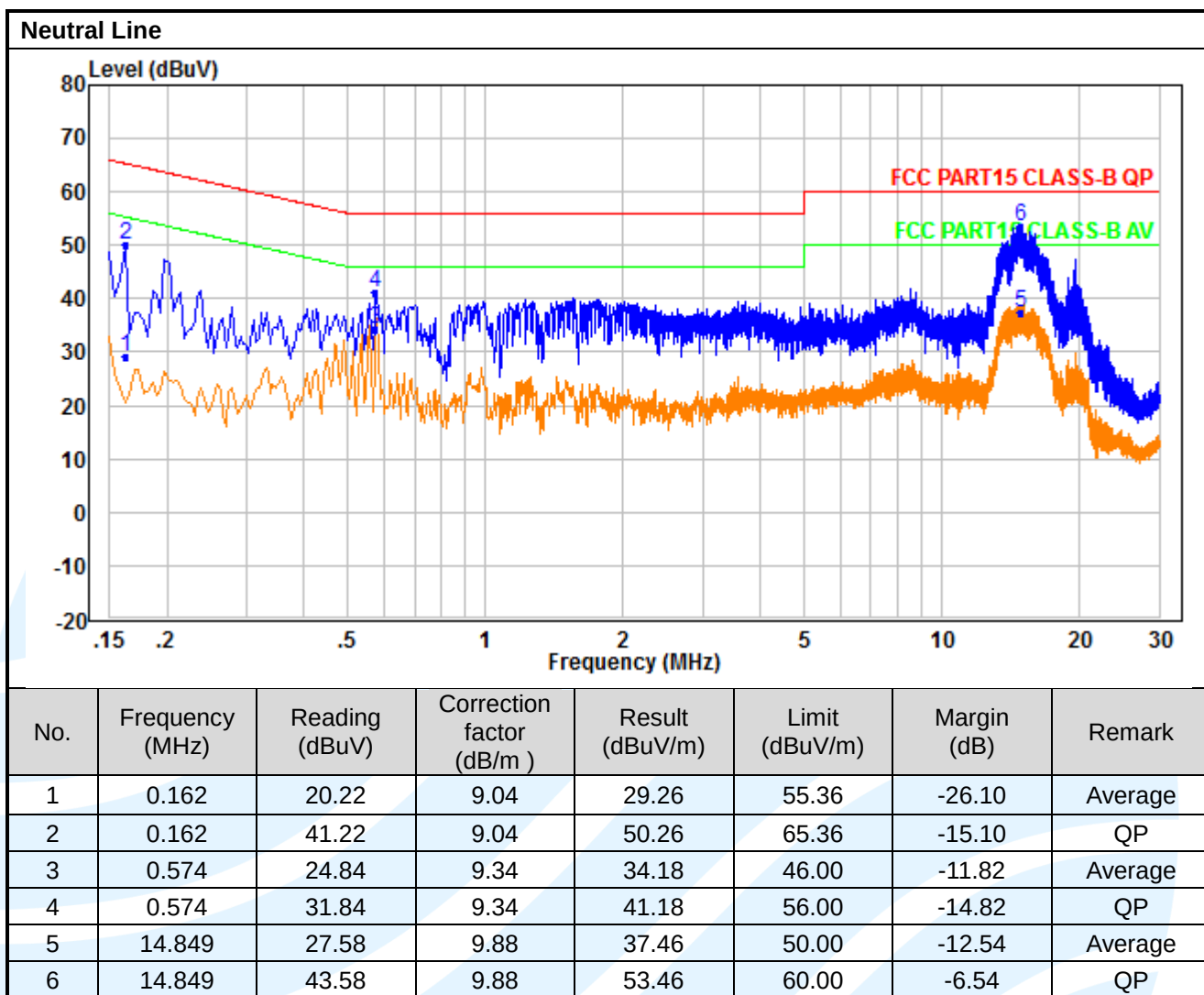
Quasi Peak and Average:

TM1

Live Line



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.186	16.37	9.06	25.43	54.21	-28.78	Average
2	0.186	42.37	9.06	51.43	64.21	-12.78	QP
3	1.282	12.72	9.47	22.19	46.00	-23.81	Average
4	1.282	29.72	9.47	39.19	56.00	-16.81	QP
5	14.769	25.70	9.88	35.58	50.00	-14.42	Average
6	14.769	40.70	9.88	50.58	60.00	-9.42	QP



Remark:

1. Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
3. Margin = Result - Limit
4. An initial pre-scan was performed on the Phase and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.
5. All possible modes of operation were investigated, and testing at two nominal voltages of 240V/50Hz and 120V/60Hz, only the worst case emissions reported.

APPENDIX 1 PHOTOS OF TEST SETUP

See test photos attached in Appendix 1 for the actual connections between Product and support equipment.

APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS

Refer to Appendix 2 for EUT external and internal photos.

*** End of Report ***

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