

# TEST REPORT

**Product Name:** Streaming Media Player  
**Trade Mark:** EPSON  
**Model No.:** DTP9757  
**Report Number:** 2212173258EMC-1  
**Test Standards:** FCC 47 CFR Part 15 Subpart B  
**FCC ID:** BKMAE-DTP9757  
**Test Result:** PASS  
**Date of Issue:** February 23, 2023

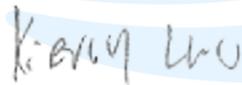
Prepared for:

**Seiko Epson Corporation**  
**3-3-5 Owa Suwa-shi Nagano-Ken 392-8502, Japan**

Prepared by:

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February 23, 2023

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**Version**

Version No.	Date	Description
V1.0	February 23, 2023	Original

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## 1. GENERAL INFORMATION

### 1.1 CLIENT INFORMATION

<b>Applicant:</b>	Seiko Epson Corporation
<b>Address of Applicant:</b>	3-3-5 Owa Suwa-shi Nagano-Ken 392-8502, Japan
<b>Manufacturer:</b>	Shenzhen Jiuzhou Electric Co., Ltd
<b>Address of Manufacturer:</b>	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

<b>Product Name:</b>	Streaming Media Player
<b>Model No.:</b>	DTP9757
<b>Trade Mark:</b>	EPSON
<b>DUT Stage:</b>	Identical Prototype
<b>Rated Voltage:</b>	<input checked="" type="checkbox"/> Powered by USB Micro-B port
<b>Classification of digital devices:</b>	Class B
<b>Highest Internal Frequency:</b>	5825 MHz
<b>Sample Received Date:</b>	December 17, 2022
<b>Sample Tested Date:</b>	December 26, 2022 to December 27, 2022
<b>Remark:</b>	The above EUT's information was provided by customer. Please refer to the specifications or user's manual for more detailed description.

#### 1.2.2 Description of Accessories

None

### 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
Monitor	DELL	M216AF	BOG20180003	UnionTrust
Monitor	AOC	24B2X	AVLN51A000121 6K	UnionTrust
USB flash disk	Kingston	DTSE9	N/A	UnionTrust
Wireless Router	ASUA	RT-AC2200	2019AJ4850	UnionTrust
Mouse	DELL	MS111	CN-011D3V-738	UnionTrust
Adaptor	BULL	GNV-AU1652	N/A	UnionTrust
Remote Control	EPSON	WH-6982_BLE	N/A	Applicant

#### Support Cable

Cable No.	Description	Connector	Length	Supplied by
1	HDMI Cable	HDMI	1.2 Meter Unshielded without ferrite	UnionTrust
2	USB Cable	USB Micro-B Plug Cable	1.2 Meter Unshielded without ferrite	Applicant

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## 1.4 TEST LOCATION

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### **Shenzhen UnionTrust Quality and Technology Co., Ltd.**

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## 1.5 TEST FACILITY

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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 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 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**

CAB identifier: CN0032

### **FCC Accredited Lab.**

Designation Number: CN1194

Test Firm Registration Number: 259480

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## 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	±3.2 dB
2	Conducted emission 150kHz-30MHz	±2.7 dB
3	Radiated emission 9kHz-30MHz	± 4.7 dB
4	Radiated emission 30MHz-1GHz	± 4.6 dB
5	Radiated emission 1GHz-18GHz	± 4.4 dB
6	Radiated emission 18GHz-26GHz	± 4.6 dB
7	Radiated emission 26GHz-40GHz	± 4.6 dB

**2. TEST SUMMARY**

<b>FCC 47 CFR Part 15 Subpart B Test Cases</b>			
<b>Test Item</b>	<b>Test Requirement</b>	<b>Test Method</b>	<b>Result</b>
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



### 3. EQUIPMENT LIST

Radiated Emission Test Equipment List						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm dd, yyyy)	Cal. Due date (mm dd, yyyy)
<input checked="" type="checkbox"/>	3m SAC	ETS-LINDGREN	3m	Euroshiedpn-CT001270-1317	22-Jan-2021	21-Jan-2024
<input checked="" type="checkbox"/>	Receiver	R&S	ESIB26	100114	3-Nov-2021	2-Nov-2023
<input checked="" type="checkbox"/>	Broadband Antenna	ETS-LINDGREN	3142E	00201566	11-Nov-2021	10-Nov-2023
<input checked="" type="checkbox"/>	6dB Attenuator	Talent	RA6A5-N-18	18103001	11-Nov-2021	10-Nov-2023
<input checked="" type="checkbox"/>	Preamplifier	HP	8447F	2805A02960	1-Nov-2022	31-Oct-2023
<input checked="" type="checkbox"/>	Double-Ridged Waveguide Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3117-PA	00201541	17-Apr-2022	16-Apr-2024
<input checked="" type="checkbox"/>	Pre-amplifier	ETS-Lindgren	00118385	00201874	11-Nov-2021	10-Nov-2023
<input checked="" type="checkbox"/>	Double-Ridged Waveguide Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3116C-PA	00202652	21-Nov-2022	20-Nov-2023
<input checked="" type="checkbox"/>	Pre-amplifier	ETS-Lindgren	00118384	00202652	21-Nov-2022	20-Nov-2023
<input checked="" type="checkbox"/>	Multi device Controller	ETS-LINDGREN	7006-001	00160105	N/A	N/A
<input checked="" type="checkbox"/>	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)
<input checked="" type="checkbox"/>	LISN	R&S	ESH2-Z5	860014/024	1-Nov-2022	31-Oct-2023
<input checked="" type="checkbox"/>	LISN	ETS-Lindgren	3816/2SH	00201088	1-Nov-2022	31-Oct-2023
<input checked="" type="checkbox"/>	Receiver	R&S	ESR7	101181	1-Nov-2022	31-Oct-2023
<input checked="" type="checkbox"/>	Pulse Limiter	R&S	ESH3-Z2	0357.8810.54	1-Nov-2022	31-Oct-2023
<input type="checkbox"/>	ISN	Schwarzbeck	NTFM 8158	NTFM 8158 0113	1-Nov-2022	31-Oct-2023
<input checked="" type="checkbox"/>	Shielding room	ETS-Lindgren	843	Euroshiedpn-C T001270-1246	5-Nov-2021	4-Nov-2024
<input checked="" type="checkbox"/>	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 (V)	Relative Humidity (%)
NV/NT	+15 to +35	Powered by USB Micro-B port	20 to 75
<b>Remark:</b> 1) NV: Normal Voltage; NT: Normal Temperature			

#### 4.1.2 Record of Normal Environment and Test sample

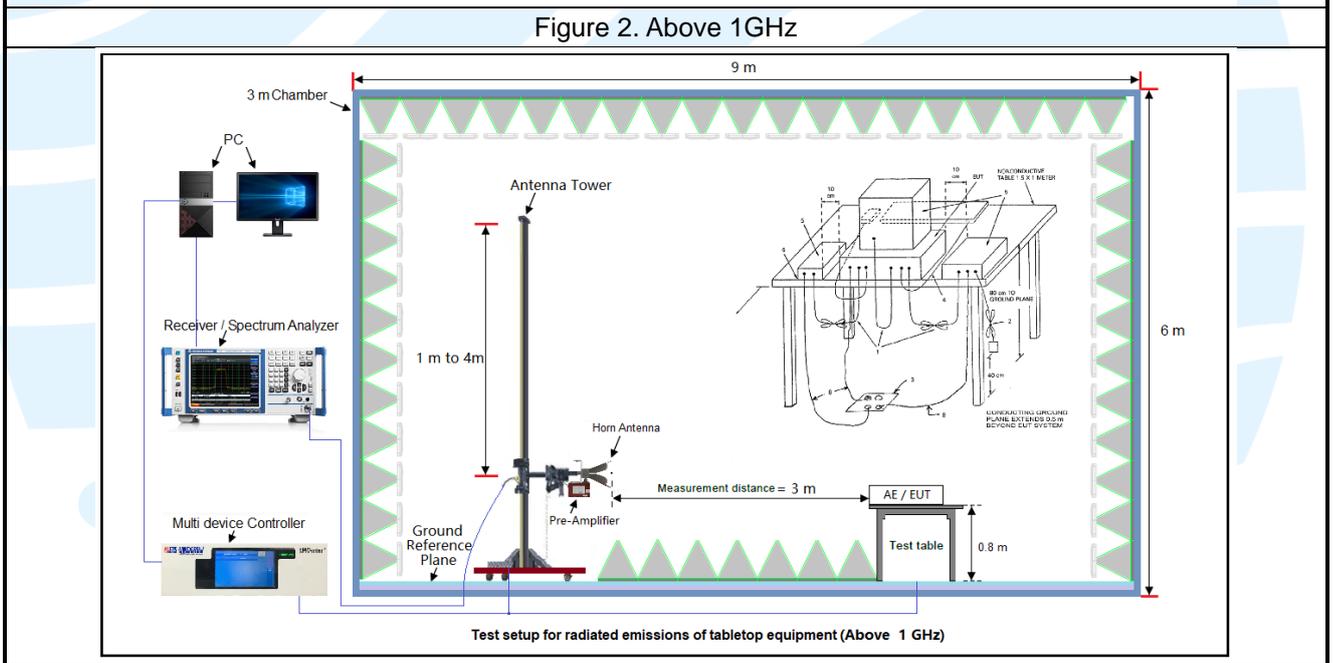
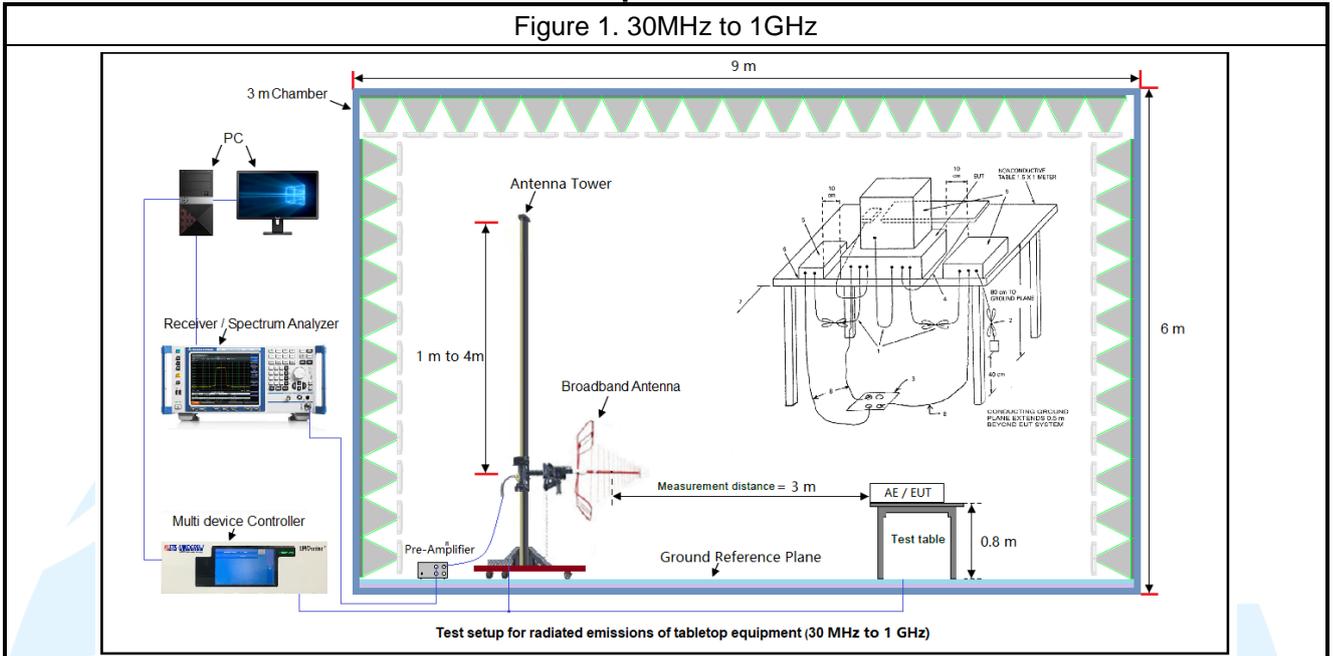
Test Item	Temperature (°C)	Relative Humidity (%)	Pressure (kPa)	Sample No.	Tested by
Conducted Emission	20.4	41	100.8	S20221217949-ZJA01/6	Lucas Ouyang
Radiated Emission	17.3	30.4	100.8		Andy Lin

### 4.2 TEST MODES

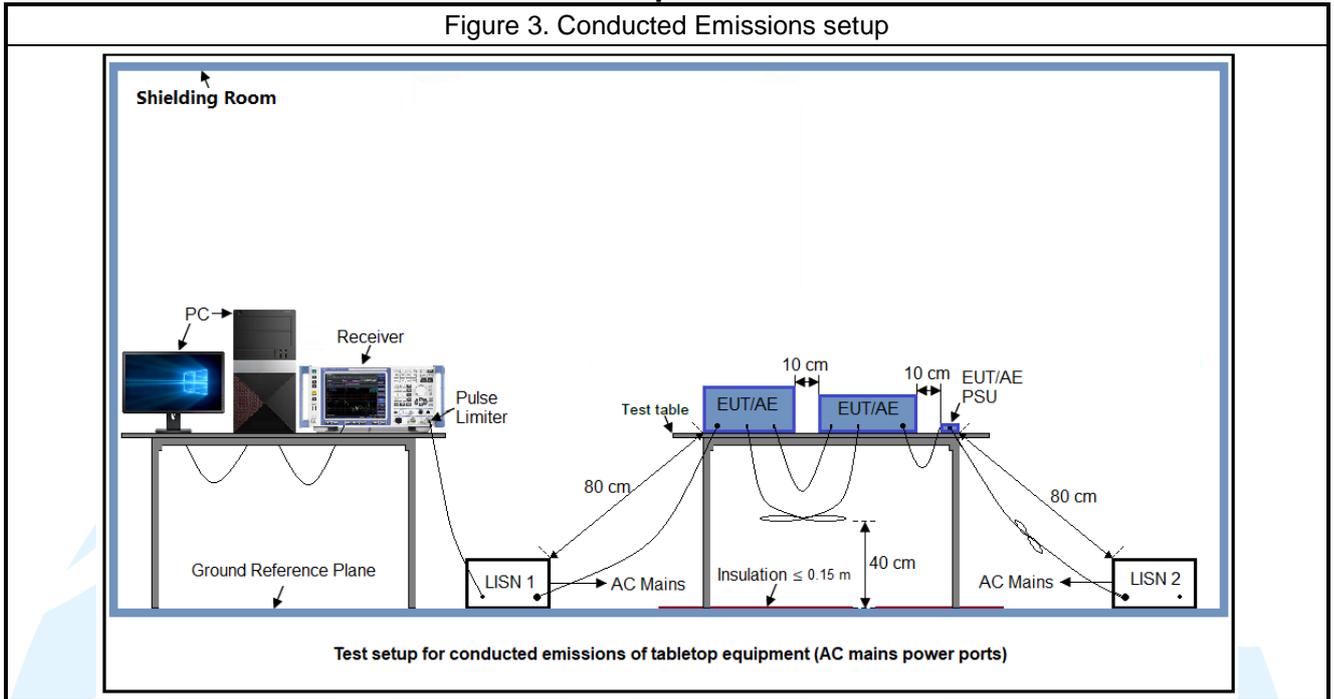
Test Item	EMI Test Modes
Radiated Emission	<b>Test Mode 1: AC120V/60Hz (Adaptor) + USB Playing + HDMI OUT</b> <b>Test Mode 2: AC120V/60Hz (Adaptor) + Wi-Fi Playing + HDMI OUT</b>
Conducted Emission	<b>Test Mode 1: AC120V/60Hz (Adaptor) + USB Playing + HDMI OUT</b> <b>Test Mode 2: AC120V/60Hz (Adaptor) + Wi-Fi Playing + HDMI OUT</b>
Remark: The above test modes in boldface were the worst cases, only the test data of these modes were reported.	

### 4.3 TEST SETUP

#### 4.3.1 For Radiated Emissions test setup



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

**FCC 47 CFR Part 15 Subpart B**

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

**Remark:**

- The lower limit shall apply at the transition frequencies.
- Emission level (dB $\mu$ V/m) = 20 log Emission level ( $\mu$ 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:

- 1) The Product was placed on the non-conductive turntable 0.8 m above the ground at a chamber.

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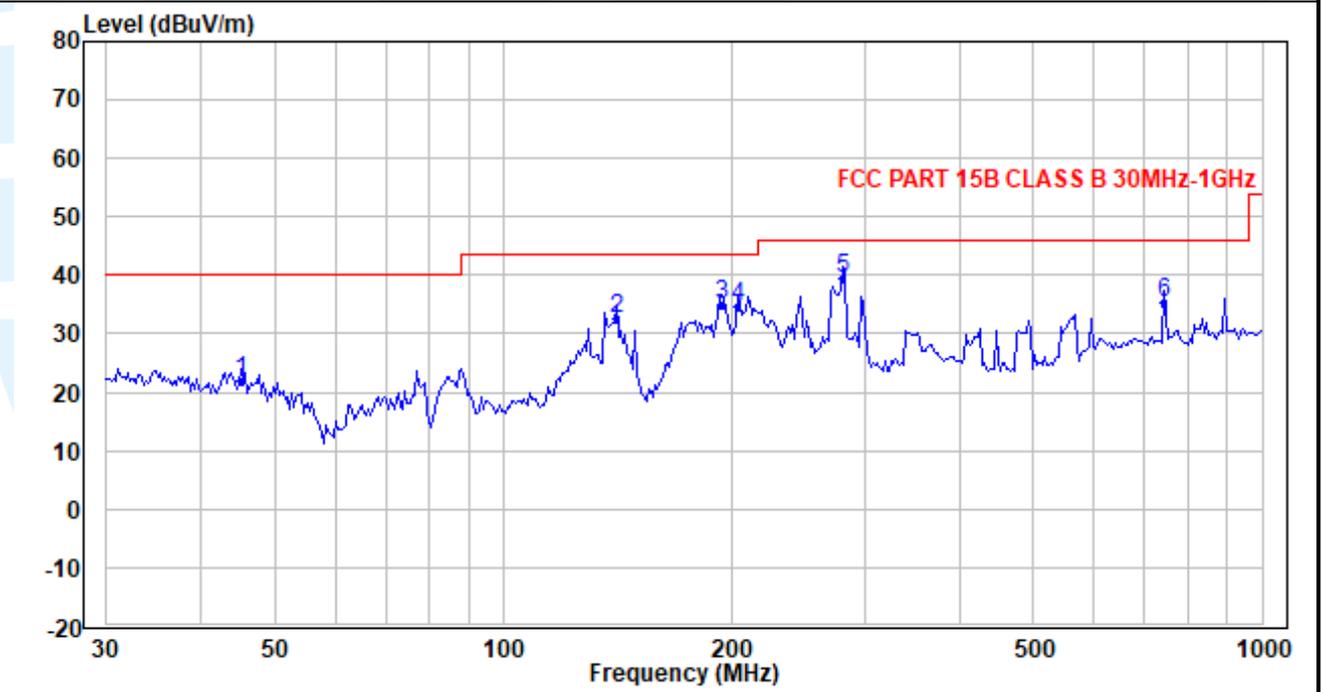
- 2) Set the spectrum analyzer/receiver in Peak detector, Max Hold mode, and 120 kHz RBW. Record the maximum field strength of all the pre-scan process in the full band when the antenna is varied between 1~4 m in both horizontal and vertical, and the turntable is rotated from 0 to 360 degrees.
  - 3) 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 worst measurement data as follows:**

**Below 1GHz(Quasi Peak):**  
**Test Mode1**  
**Horizontal**



No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	45.095	33.19	-11.26	21.93	40.00	-18.07	QP
2	140.777	48.01	-15.50	32.51	43.50	-10.99	QP
3	194.499	45.20	-10.37	34.83	43.50	-8.67	QP
4	204.305	45.39	-10.64	34.75	43.50	-8.75	QP
5	280.294	46.72	-7.11	39.61	46.00	-6.39	QP
6	744.427	33.01	2.38	35.39	46.00	-10.61	QP

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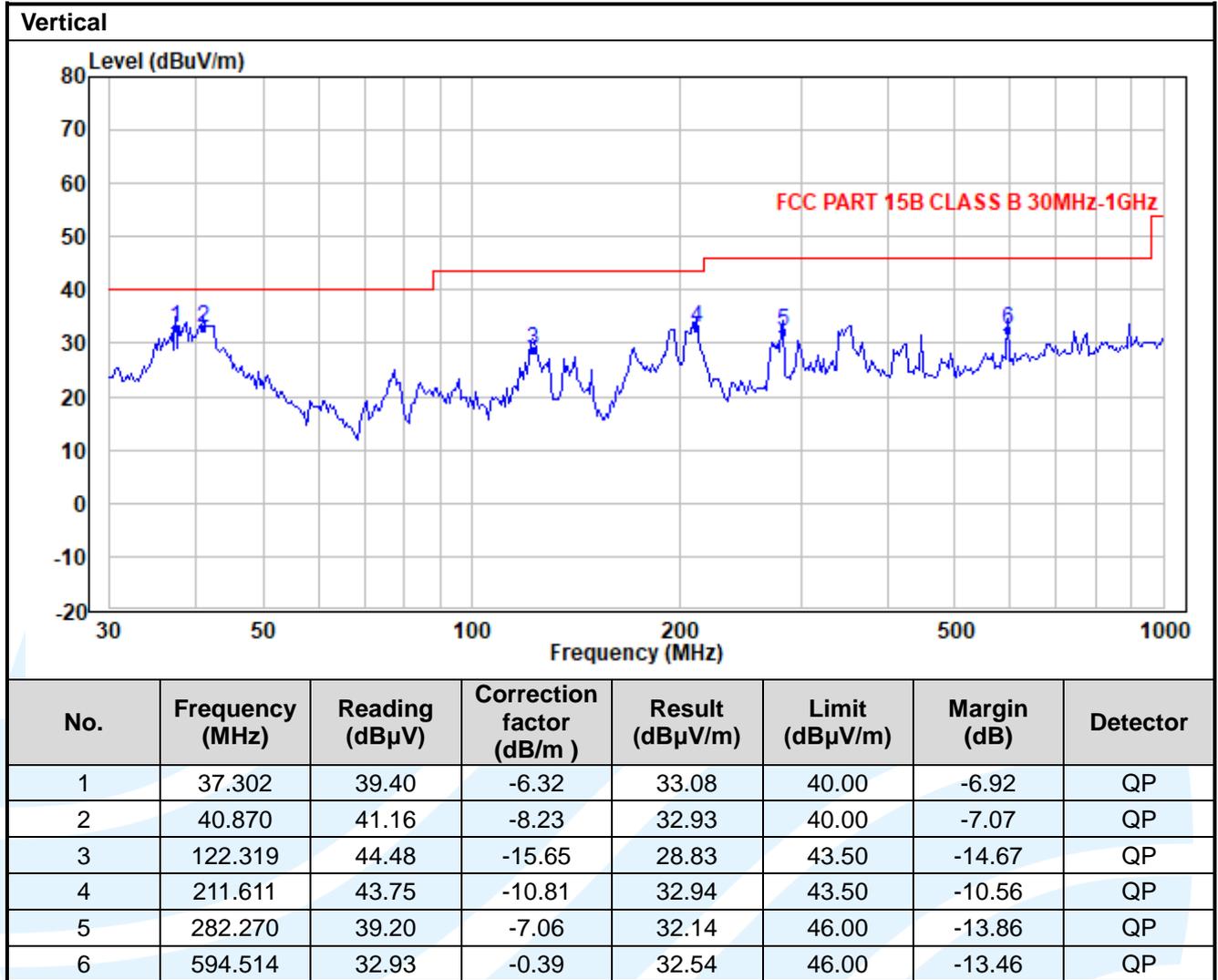
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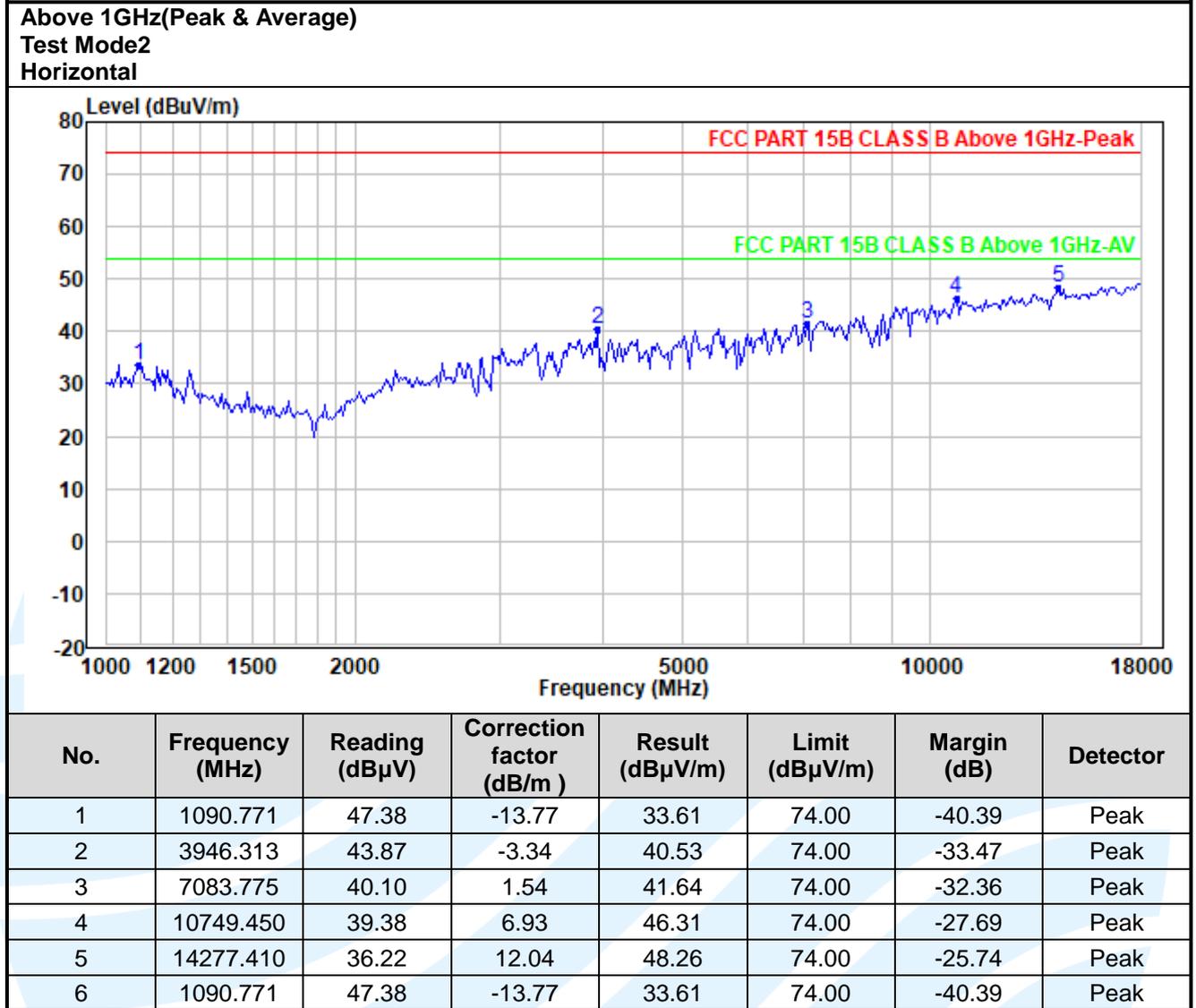
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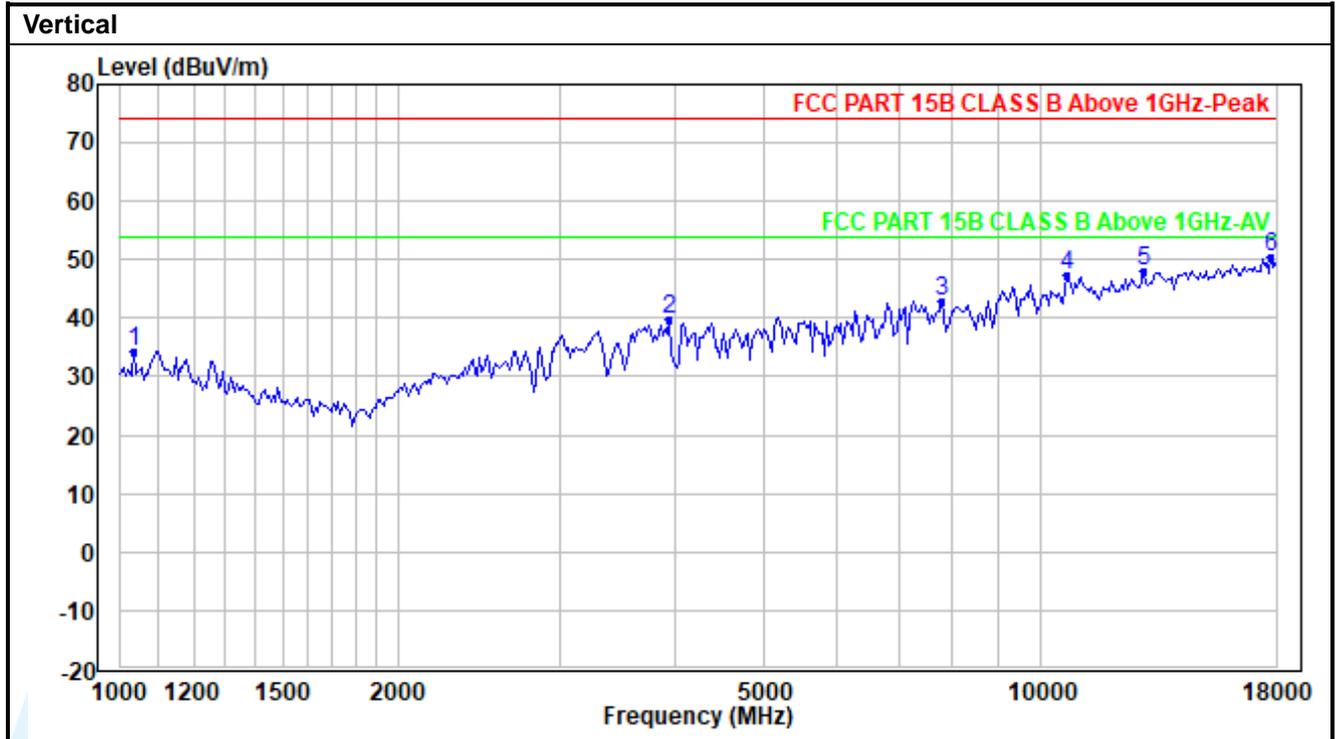
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No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m )	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	1035.365	48.34	-13.91	34.43	74.00	-39.57	Peak
2	3946.313	43.12	-3.34	39.78	74.00	-34.22	Peak
3	7816.810	40.64	2.38	43.02	74.00	-30.98	Peak
4	10687.370	40.65	6.79	47.44	74.00	-26.56	Peak
5	12938.520	37.82	10.32	48.14	74.00	-25.86	Peak
6	17792.680	35.61	14.70	50.31	74.00	-23.69	Peak

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. For Radiated Emission above 18GHz, there was not any unwanted emission detected.
5. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. 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. So, only the peak measurements were shown in the report.



## 6.2 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:**

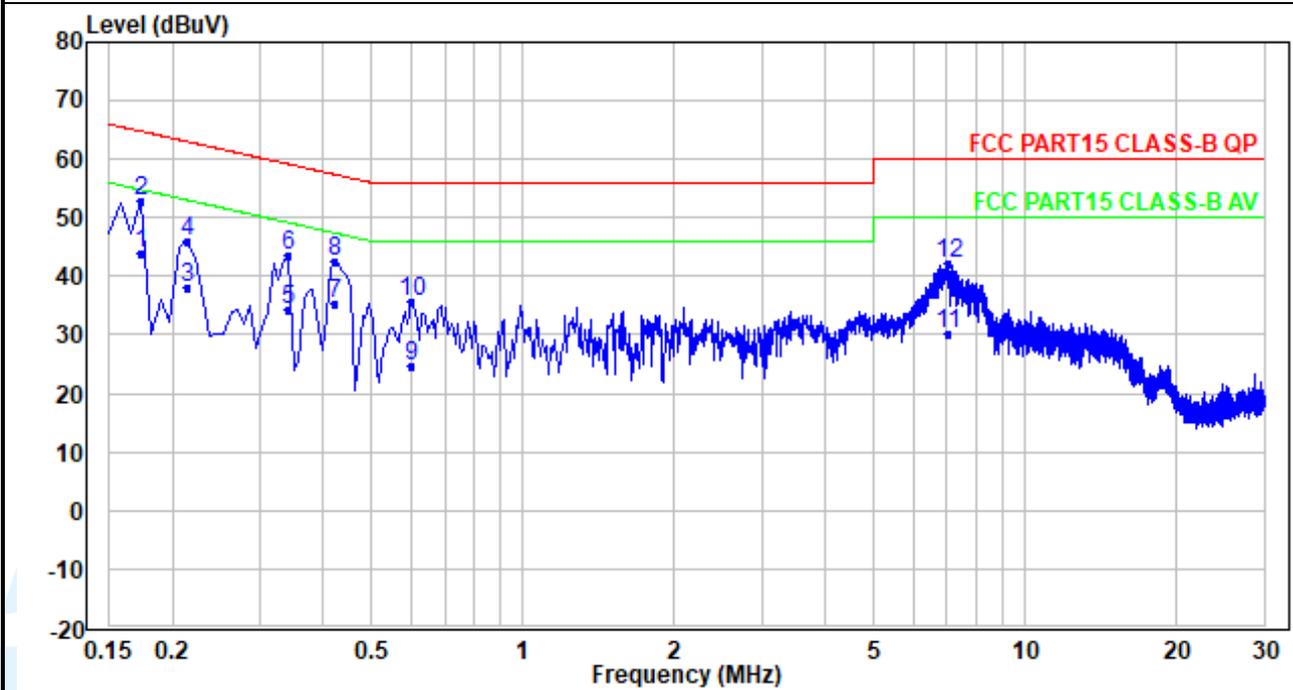
- 1) The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- 2) The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with 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.

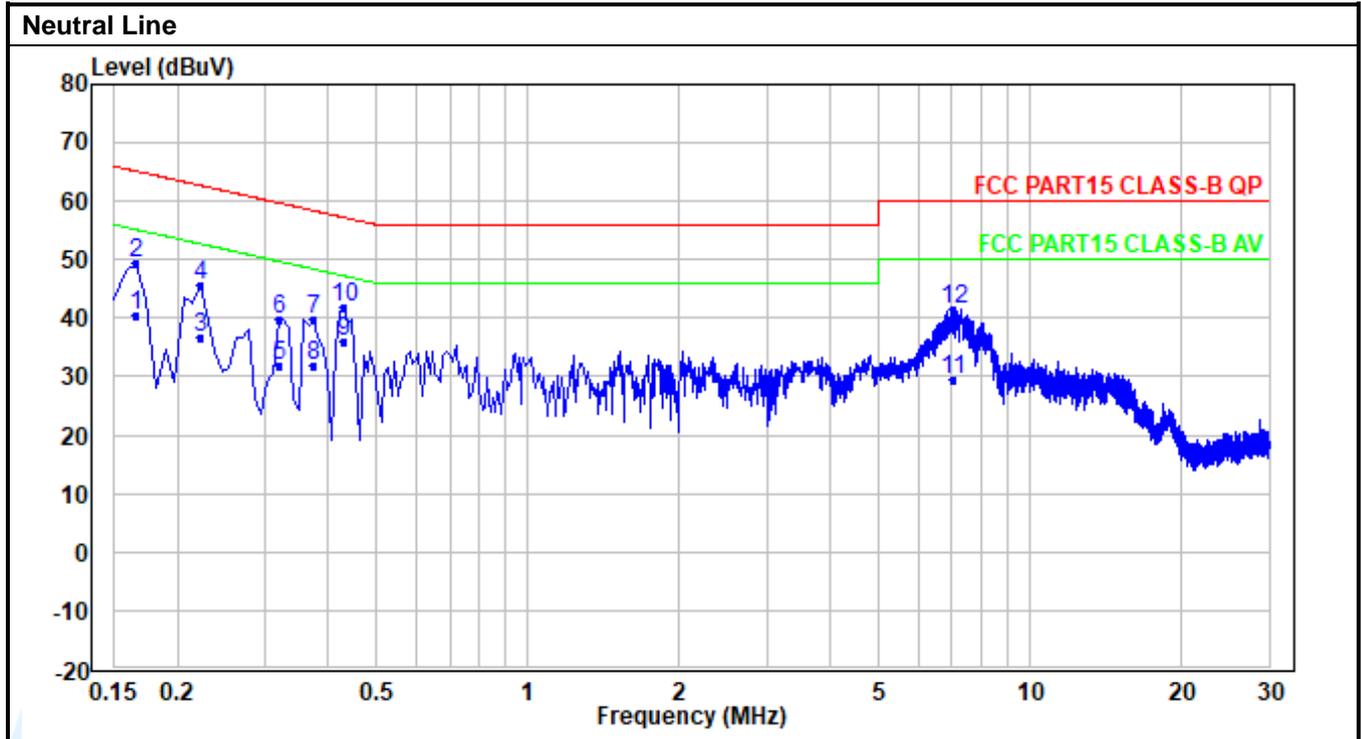
**Test Result:** Pass

The worst measurement data as follows:  
 Quasi Peak and Average:  
 Test Mode1

Live Line



No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.174	33.78	10.03	43.81	54.77	-10.96	Average
2	0.174	42.78	10.03	52.81	64.77	-11.96	QP
3	0.214	27.96	10.02	37.98	53.05	-15.07	Average
4	0.214	35.96	10.02	45.98	63.05	-17.07	QP
5	0.342	24.38	10.03	34.41	49.16	-14.75	Average
6	0.342	33.38	10.03	43.41	59.16	-15.75	QP
7	0.422	25.39	10.04	35.43	47.41	-11.98	Average
8	0.422	32.39	10.04	42.43	57.41	-14.98	QP
9	0.598	14.72	10.05	24.77	46.00	-21.23	Average
10	0.598	25.72	10.05	35.77	56.00	-20.23	QP
11	7.029	19.63	10.43	30.06	50.00	-19.94	Average
12	7.029	31.63	10.43	42.06	60.00	-17.94	QP



No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.166	30.45	10.02	40.47	55.16	-14.69	Average
2	0.166	39.45	10.02	49.47	65.16	-15.69	QP
3	0.222	26.70	10.00	36.70	52.74	-16.04	Average
4	0.222	35.70	10.00	45.70	62.74	-17.04	QP
5	0.318	21.92	10.01	31.93	49.76	-17.83	Average
6	0.318	29.92	10.01	39.93	59.76	-19.83	QP
7	0.374	29.77	10.02	39.79	58.41	-18.62	Average
8	0.374	21.77	10.02	31.79	48.41	-16.62	QP
9	0.430	25.98	10.02	36.00	47.25	-11.25	Average
10	0.430	31.98	10.02	42.00	57.25	-15.25	QP
11	7.045	19.21	10.40	29.61	50.00	-20.39	Average
12	7.045	31.21	10.40	41.61	60.00	-18.39	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.

## 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 \*\*\*\*\*

The test report is effective only with both signature and specialized stamp. The result(s) shown in this report refer only to the sample(s) tested. Without written approval of UnionTrust, this report can't be reproduced except in full.

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