

FCC TEST REPORT

Product Name: Tablet with printer

Trade Mark:



Model No.: M10p

Add. Model No.: N/A

Report Number: 201218035EMC-1

Test Standards: FCC 47 CFR Part 15 Subpart B

Test Result: PASS

Date of Issue: April 9, 2021

Prepared for:

Rhino Mobility LLC

8 The Green, Suite A, Dover, Delaware, 19901, USA

Prepared by:

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Version

Version No.	Date	Description
V1.0	April 9, 2021	Original

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1. GENERAL INFORMATION

1.1 CLIENT INFORMATION

Applicant:	Rhino Mobility LLC
Address of Applicant:	8 The Green, Suite A, Dover, Delaware, 19901, USA
Manufacturer:	Rhino Mobility LLC
Address of Manufacturer:	8 The Green, Suite A, Dover, Delaware, 19901, USA

1.2 EUT INFORMATION

1.2.1 General Description of EUT

Product Name:	Tablet with printer
Model No.:	M10p
Add. Model No.:	N/A
Trade Mark:	
DUT Stage:	Identical Prototype
Rated Voltage:	☒ 110-240V~50/60Hz
Classification of digital devices:	Class B
Highest Internal Frequency:	5.825 GHz
Software Version:	M10P(001)_20210318
Hardware Version:	RC-PF312_U3.0
Sample Received Date:	February 5, 2021
Sample Tested Date:	March 2, 2021 to March 5, 2021

1.2.2 Description of Accessories

Adapter	
Model No.:	FJ-SW202724004000
Input:	100-240 V~50/60 Hz 3.0 A Max
Output:	24.0 V = 4.0 A
AC Cable:	1.0 Meter, Unshielded without ferrite
DC Cable:	1.20 Meter, Unshielded with one ferrite

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
USB Disk	Kingston	DTSE9 G2	N/A	UnionTrust
Keyboard	DELL	KB212-B	N/A	UnionTrust
Mouse	DELL	MS111	N/A	UnionTrust
Earphone	Apple	N/A	N/A	UnionTrust
Bluetooth Earphone	MI	LYEJ02LM	N/A	UnionTrust
Cash Box	deli	DL-405	60515720215	UnionTrust
TF Card	Sandisk	9298DF74YDWT	N/A	UnionTrust
Notebook	DELL	Latitude 3400	N/A	UnionTrust

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2) Support Cable

Cable No.	Description	Connector	Length	Supplied by
1	USB Type-C Cable	USB 3.0 Type A to Type-C	0.45m Shielded without ferrite	UnionTrust

1.4 TEST LOCATION

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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

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

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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

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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 Equipment List						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm dd, yyyy)	Cal. Due date (mm dd, yyyy)
☒	3m SAC	ETS-LINDGREN	3m	N/A	Jan. 22, 2021	Jan. 21, 2024
☒	Receiver	R&S	ESIB26	100114	Nov. 18, 2020	Nov. 17, 2021
☒	Broadband Antenna	ETS-LINDGREN	3142E	00201566	Nov. 14, 2020	Nov. 13, 2022
☒	6dB Attenuator	Talent	RA6A5-N-18	18103001	Nov. 14, 2020	Nov. 13, 2022
☒	Preamplifier	HP	8447F	2805A02960	Nov. 10, 2020	Nov. 9, 2021
☒	Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3117-PA	00201874	May 30, 2020	May 29, 2021
☒	Pre-amplifier	ETS-LINDGREN	118385	00201874	Nov. 10, 2020	Nov. 9, 2021
☒	Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3116C-PA	00202652	Nov. 14, 2020	Nov. 13, 2022
☒	Pre-amplifier	ETS-LINDGREN	00118384	00202652	Nov. 10, 2020	Nov. 9, 2021
☒	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. 18, 2020	Nov. 17, 2021
☒	Pulse Limiter	R&S	ESH3-Z2	0357.8810.54	Nov. 18, 2020	Nov. 17, 2021
☒	LISN	R&S	ESH2-Z5	860014/024	Nov. 18, 2020	Nov. 17, 2021
☒	LISN	ETS-Lindgren	3816/2SH	00201088	Nov. 18, 2020	Nov. 17, 2021
☒	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	120V~60Hz or 240V~50Hz	20 to 75
Remark: 1) NV: Normal Voltage; NT: Normal Temperature			

4.1.2 Record of Normal Environment

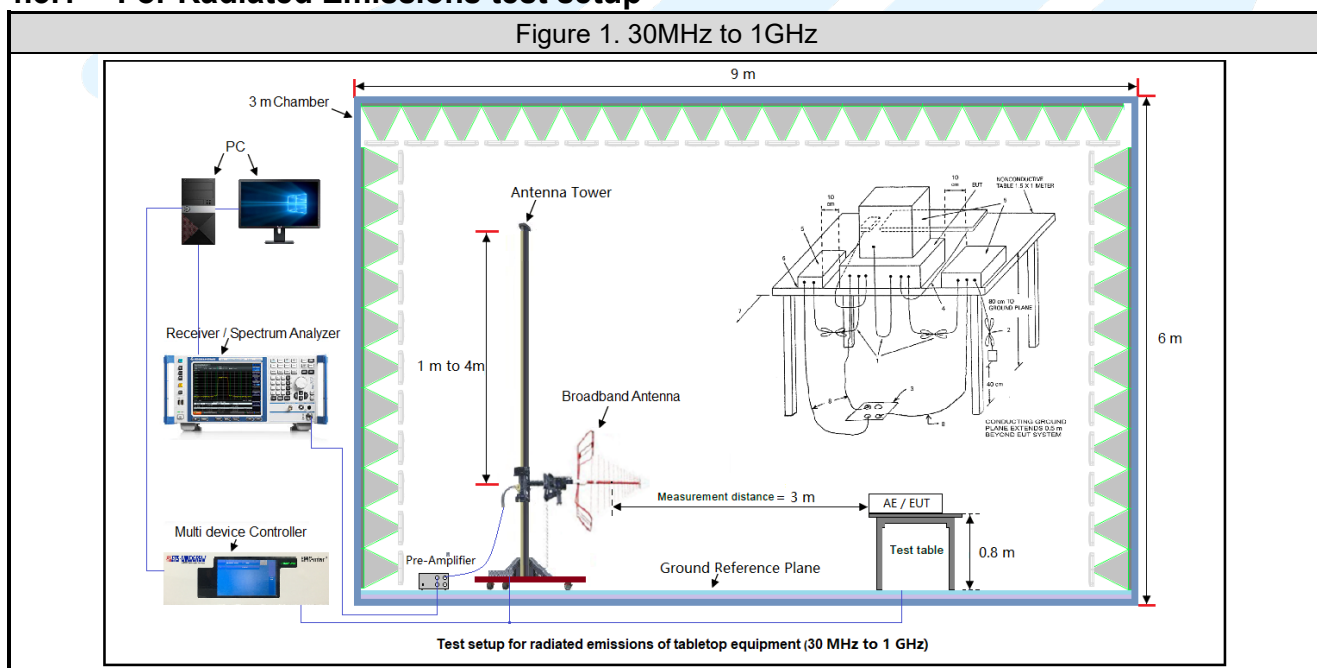
Test Item	Temperature (°C)	Relative Humidity (%)	Pressure (kPa)	Tested by
Conducted Emission	21.5	39	99.9	Tripp Jiang
Radiated Emission	25.2	50	100.1	Andy Lin

4.2 TEST MODES

Test Item	EMI Test Modes
Radiated Emission	Test mode1: 120VAC (with Adapter) + Mouse + Keyboard + USB Disk + Cash Box + TF Card + GPS + Ethernet(RJ45) + BT idle + Wi-Fi idle + GSM 900 idle + Camera + Earphone Test mode 2:240VAC (with Adapter) + Mouse + Keyboard + USB Disk + Cash Box + TF Card + GPS + Ethernet(RJ45) + BT idle + Wi-Fi idle + WCDMA Band I idle + Print Test mode 3: worse form TM1~2 + LTE Band 1 idle + Type-C (data transfer with notebook)
Conducted Emission	Test mode1:240VAC (with Adapter) + Mouse + Keyboard + USB Disk + Cash Box + TF Card + GPS + Ethernet(RJ45) + Camera + Earphone Test mode 2:240VAC (with Adapter) + Mouse + Keyboard + USB Disk + Cash Box + TF Card + GPS + BT Link + Wi-Fi Link + Print Test mode 3:240VAC (with Adapter) + Mouse + Keyboard + USB Disk + Cash Box + TF Card + GPS + BT Link + GSM900 Link + Type-C(data transfer with notebook) Test mode 4: 110VAC (with Adapter) worse form TM1~3

4.3 TEST SETUP

4.3.1 For Radiated Emissions test setup



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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:

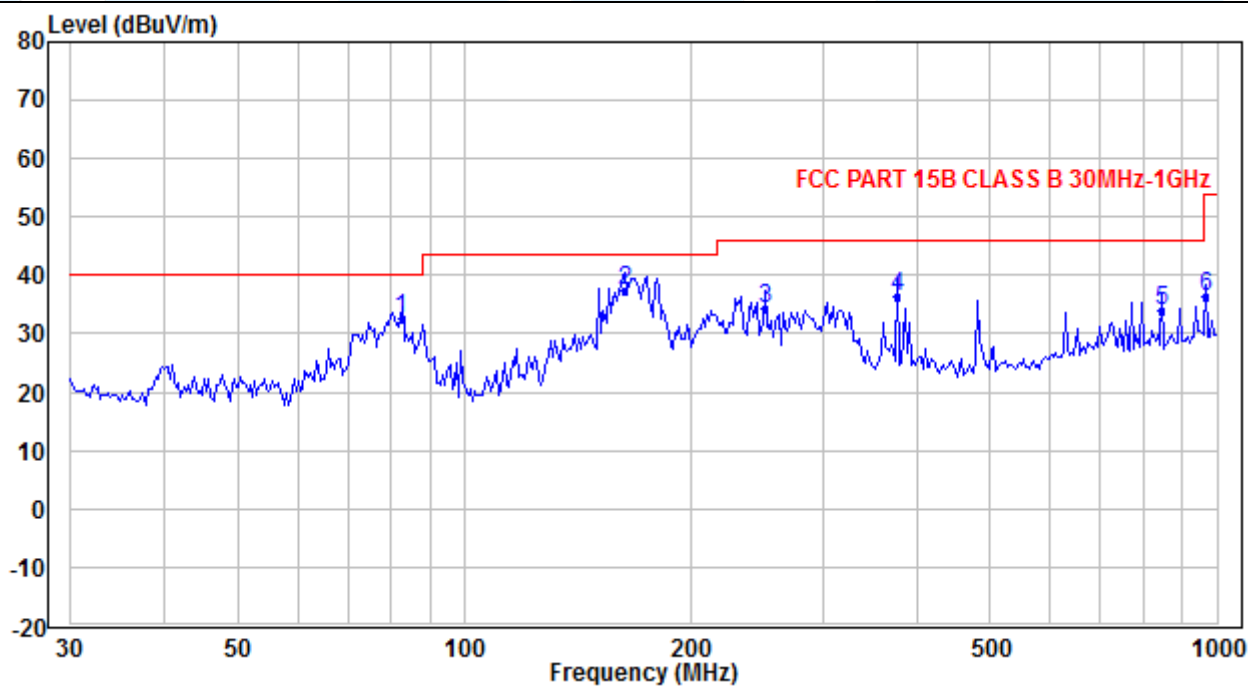
- 1) The Product was placed on the non-conductive turntable 0.8 m above the ground at a chamber.
- 2) Set the spectrum analyzer/receiver in Peak detector, Max Hold mode, and 1MHz RBW. Record the maximum field strength of all the pre-scan process in the full band when the antenna is varied in both horizontal 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):
Worse Test Mode: Test Mode 1
Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	82.526	46.63	-14.16	32.47	40.00	-7.53	QP
2	163.162	48.71	-11.18	37.53	43.50	-5.97	QP
3	250.486	42.38	-8.04	34.34	46.00	-11.66	QP
4	376.523	41.56	-5.19	36.37	46.00	-9.63	QP
5	844.803	31.89	2.00	33.89	46.00	-12.11	QP
6	965.474	31.97	4.54	36.51	54.00	-17.49	QP

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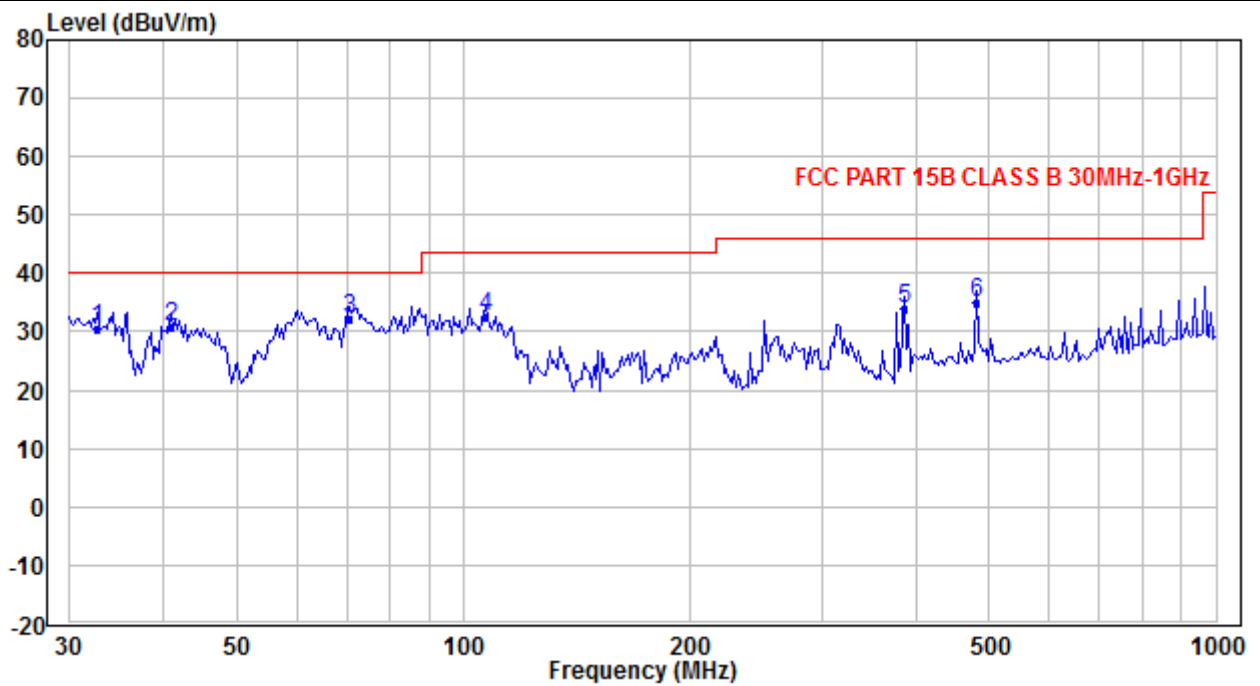
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Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	32.640	37.64	-7.28	30.36	40.00	-9.64	QP
2	40.870	43.20	-12.19	31.01	40.00	-8.99	QP
3	70.705	46.93	-14.65	32.28	40.00	-7.72	QP
4	107.031	45.44	-12.99	32.45	43.50	-11.05	QP
5	384.545	38.91	-4.88	34.03	46.00	-11.97	QP
6	481.511	37.58	-2.70	34.88	46.00	-11.12	QP

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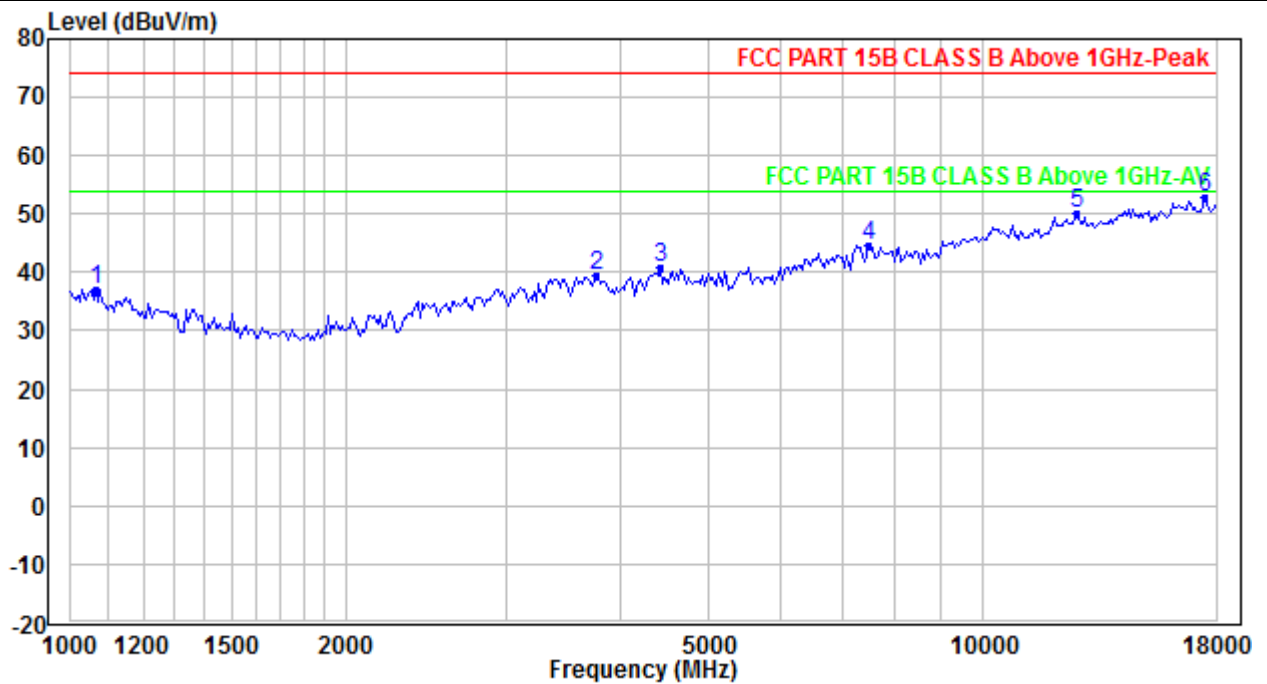
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Above 1GHz(Peak & Average)
Worse Test Mode: Test Mode 1
Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1065.789	48.07	-10.88	37.19	74.00	-36.81	Peak
2	3767.619	44.10	-4.79	39.31	74.00	-34.69	Peak
3	4431.014	44.40	-3.66	40.74	74.00	-33.26	Peak
4	7506.207	43.46	1.22	44.68	74.00	-29.32	Peak
5	12642.190	40.65	9.34	49.99	74.00	-24.01	Peak
6	17486.170	39.24	13.76	53.00	74.00	-21.00	Peak

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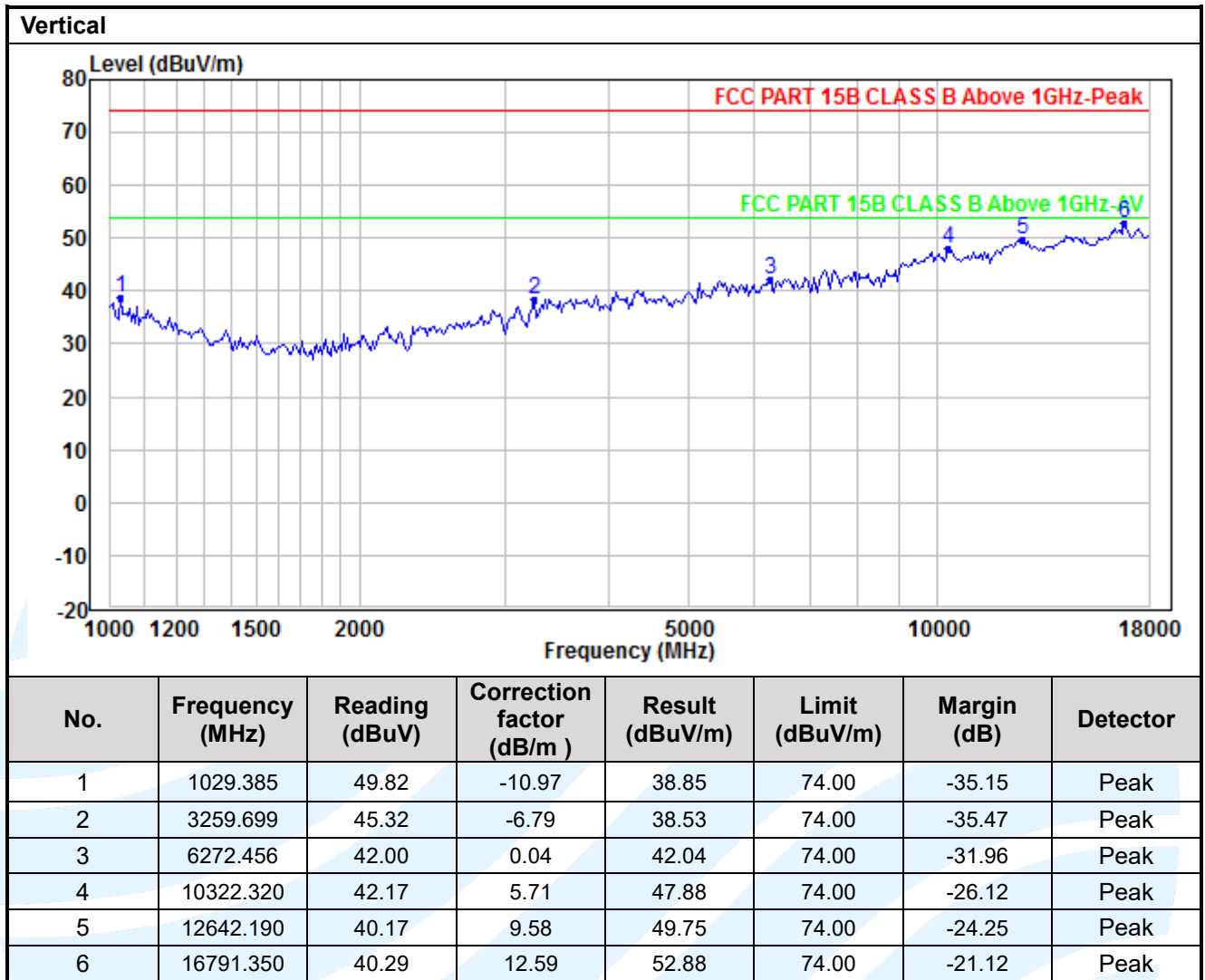
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Remark:

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. 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.

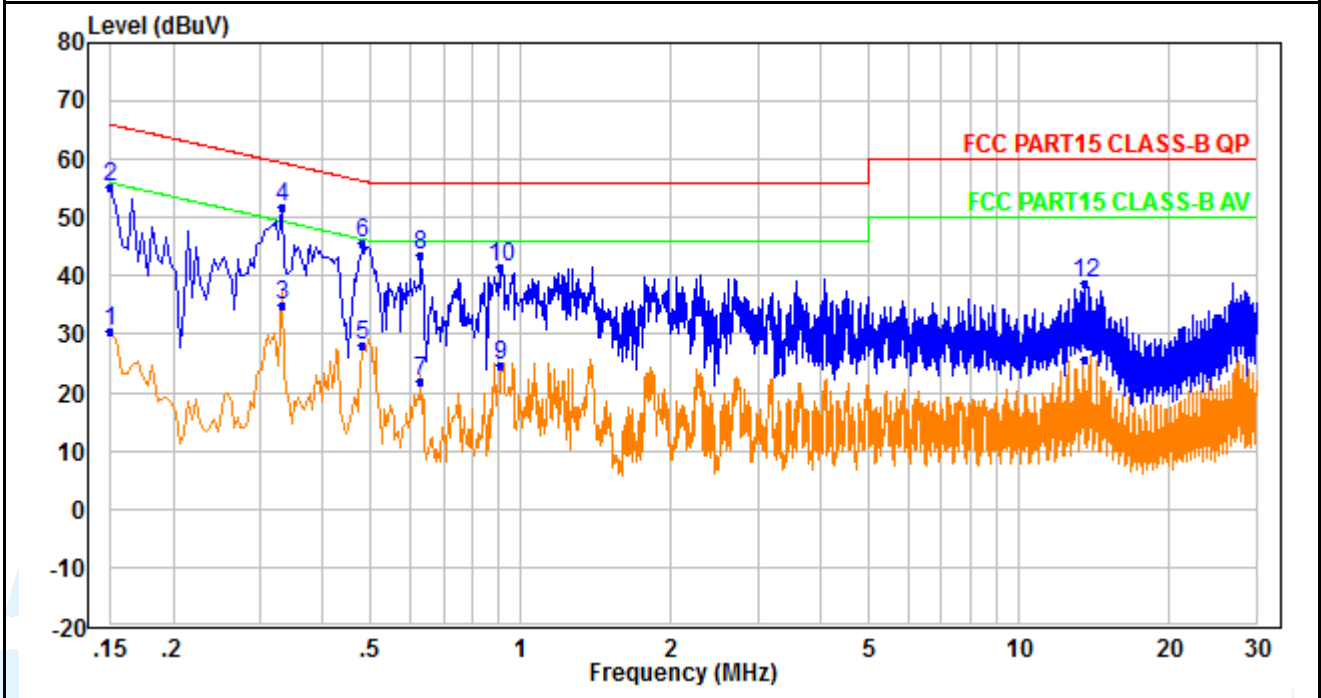
Test Result: Pass

The measurement data as follows:

Quasi Peak and Average:

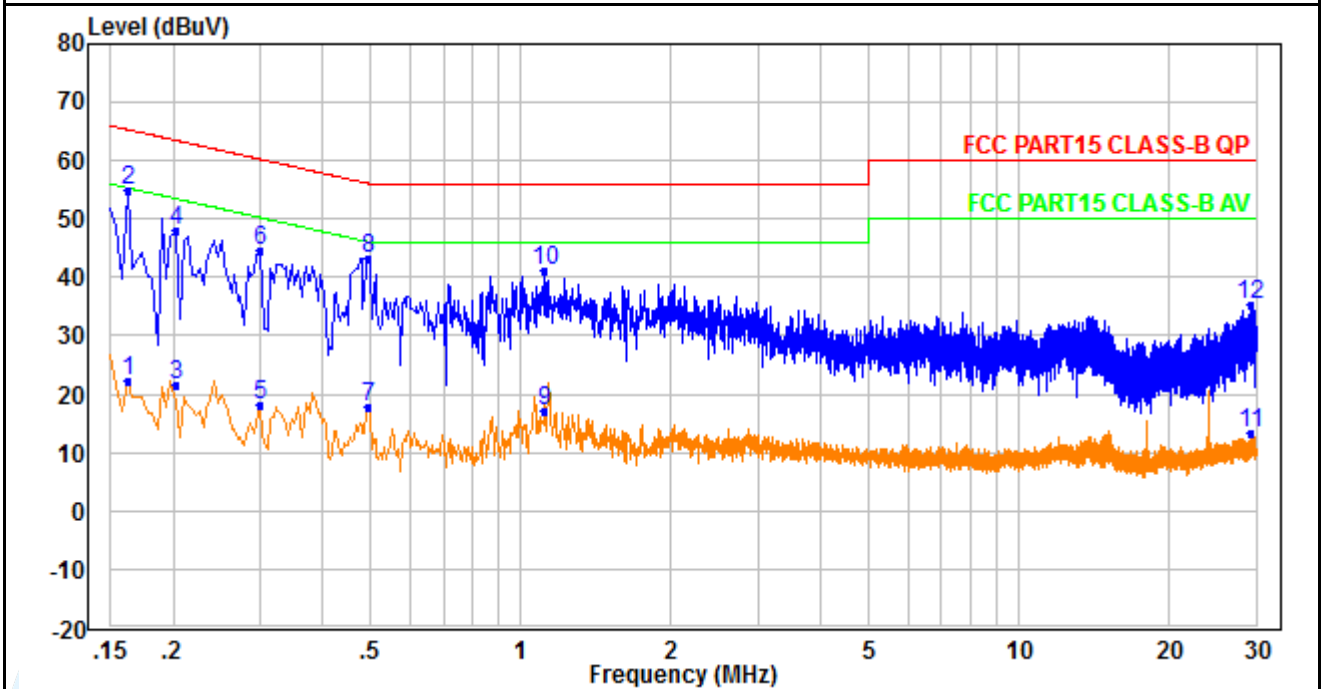
Worse Test Mode: Test Mode 4

Live Line



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.150	20.72	9.75	30.47	56.00	-25.53	Average
2	0.150	45.66	9.75	55.41	66.00	-10.59	QP
3	0.330	25.27	9.77	35.04	49.45	-14.41	Average
4	0.330	42.22	9.77	51.99	59.45	-7.46	QP
5	0.482	18.16	9.83	27.99	46.30	-18.31	Average
6	0.482	35.71	9.83	45.54	56.30	-10.76	QP

Neutral Line



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.162	12.68	9.75	22.43	55.36	-32.93	Average
2	0.162	45.26	9.75	55.01	65.36	-10.35	QP
3	0.202	11.80	9.74	21.54	53.53	-31.99	Average
4	0.202	38.34	9.74	48.08	63.53	-15.45	QP
5	0.298	8.41	9.75	18.16	50.30	-32.14	Average
6	0.298	34.94	9.75	44.69	60.30	-15.61	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.

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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.
