



Certificate #4312.01

FCC TEST REPORT

Product Name: Smartphone
Trade Mark: INVENTUS
Model No.: Inventus PD1
Add. Model No.: N/A
Report Number: 26052925036EMC-1
Test Standards: FCC 47 CFR Part 15 Subpart B
FCC ID: 2BDXXPD1
Test Result: PASS
Date of Issue: September 18, 2026

Prepared for:

INVENTUS GROUP LTD
C/O FLB ACCOUNTANTS LLP 1010 ESKDALE ROAD
WINNERSH TRIANGLE WOKINGHAM UNITED KINGDOM RG41 5TS

Prepared by:

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September 18, 2026

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Version

Version No.	Date	Description
V1.0	September 18, 2026	Original



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1. GENERAL INFORMATION

1.1 CLIENT INFORMATION

Applicant:	INVENTUS GROUP LTD
Address of Applicant:	C/O FLB ACCOUNTANTS LLP 1010 ESKDALE ROAD WINNERSH TRIANGLE WOKINGHAM UNITED KINGDOM RG41 5TS
Manufacturer:	INVENTUS GROUP LTD
Address of Manufacturer:	C/O FLB ACCOUNTANTS LLP 1010 ESKDALE ROAD WINNERSH TRIANGLE WOKINGHAM UNITED KINGDOM RG41 5TS

1.2 EUT INFORMATION

1.2.1 General Description of EUT

Product Name:	Smartphone
Model No.:	Inventus PD1
Trade Mark:	INVENTUS
DUT Stage:	Identical Prototype
Rated Voltage:	☒ Powered by Battery: 3.87VDC ☒ Powered by USB port input: 5.0V $\overline{=}$ 3.0A 15.0W OR 9.0V $\overline{=}$ 3.0A 27.0W PPS: 9.0V $\overline{=}$ 3.65A 33W MAX ☒ Powered by Adapter: HJ-66WPD-US
Classification of digital devices:	Class B
Highest Internal Frequency:	7125 MHz
Software Version:	SW1_V4.10_GPD1INVS_ROW_A16_040826 (Provided by the customer)
Hardware Version:	HW1 (Provided by the customer)
Sample Received Date:	July 20, 2026
Sample Tested Date:	July 23, 2026 to July 24, 2026
Remark:	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

Battery	
Model No.:	IV-PD1-BLK-BAT-LI-5000
Battery Type:	Rechargeable Li-ion Battery
Rated Voltage:	3.87 Vdc
Limited Charge Voltage:	4.45 Vdc
Typical Capacity:	5000 mAh
Rated Capacity:	4900 mAh

Cable	
Description:	USB Type-C to USB Type-C Cable
Connector:	USB Type-C / USB Type-C
Cable Type:	Shielded without ferrite
Length:	1.5 Meter

Adapter	
Model No.:	HJ-66WPD-US
Input:	100-240V~50/60Hz 1.5A
Output:	5.0V $\equiv$ 3.0A 15.0W OR 9.0V $\equiv$ 3.0A 27.0W OR 12.0V $\equiv$ 3.0A 36.0W OR 15.0V $\equiv$ 3.0A 45.0W OR 20.0V $\equiv$ 3.25A 65.0W PPS: 5.0V-11.0V $\equiv$ 6.0A 66W Max

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1.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Serial Number	Supplied by
Mouse	DELL	MS111	CN-011D3V-738	UnionTrust
Notebook	DELL	P111G601	P/N: 7N557	UnionTrust
WPTs	HUAWEI	CP61	2155030906JV01077071	UnionTrust
TF Card	Kingston	8G	N/A	UnionTrust
EarPods	Apple	MNHF2FE/A	N/A	UnionTrust
Wireless router	TP-Link	TL-WR886N	1169119003757	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 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

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	± 3.1 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-40GHz	± 4.6 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



3. EQUIPMENT LIST

Radiated Emission Test Equipment List						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
☒	3 m SAC	ETS-Lindgren	3 m	Euroshiedpn-CT001270-1317	11-Nov-2023	10-Nov-2026
☐	Loop Antenna	ETS-Lindgren	6502	00202525	26-Jan-2026	25-Jan-2027
☒	Broadband Antenna	ETS-LINDGRE N	3142E	00201566	26-Oct-2025	25-Oct-2026
☒	6dB Attenuator	Talent	RA6A5-N-18	18103001	24-Oct-2025	23-Oct-2026
☒	Horn Antenna (Pre-amplifier)	ETS-LINDGRE N	3117-PA	00201541	21-Mar-2026	20-Mar-2027
☒	Pre-amplifier	ETS-LINDGRE N	00118385	00201874	21-Mar-2026	20-Mar-2027
☐	Double-Ridged Waveguide Horn Antenna(Pre-amplifier)	ETS-Lindgren	3116C-PA	00202652	30-Oct-2025	29-Oct-2026
☐	Pre-amplifier	ETS-Lindgren	00118384	00202652	24-Oct-2025	23-Oct-2026
☒	Receiver	R&S	ESIB26	100114	24-Oct-2025	23-Oct-2026
☒	Preamplifier	HP	8447F	2805A02960	24-Oct-2025	23-Oct-2026
☒	Multi device Controller	ETS-LINDGRE N	7006-001	00160105	N/A	N/A
☒	Test Software	Audix	e3	Software Version: 9.160323		

Conducted Emission Test						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
☒	LISN	R&S	EVN216	3560.6550.12	22-Jan-2026	21-Jan-2027
☐	LISN	ETS-Lindgren	3816/2SH	00201088	24-Oct-2025	23-Oct-2026
☒	Receiver	R&S	ESCI 3	101192	24-Oct-2025	23-Oct-2026
☒	Shielding room	ETS-Lindgren	843	Euroshiedpn-CT001270-1246	25-Oct-2024	24-Oct-2027
☒	Test Software	EZ-EMC	EZ-CON	Software Version: EMC-CON 3A1.1		

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 (%)
NT/NV	+15 to +35	1. 120~60Hz and/or 3.87V battery 2. 240~50Hz and/or 3.87V battery	20 to 75
Remark: 1) NV: Normal Voltage; NT: Normal Temperature			

4.1.2 Record of Normal Environment and Test Sample

Test Item	Temp. (°C)	Relative Humidity (%)	Pressure (kPa)	Sample No.	Tested by
Radiated Emission	24.8	56.0	99.7	S202607209259-ZJF01/5	Leo Li
Conducted Emission	22.0	48.0	99.5		Shirley Wu

4.2 TEST MODES

Test Item	EMI Test Modes
Radiated Emission	Test Mode 1 : Charging from Adapter (with 120 Vac) + USB Cable TF Card + MP4 playing + GSM 850 idle(869 - 894 MHz) + Wi-Fi idle + BT idle + GNSS + Earphone
	Test Mode 2 : Charging from Adapter (with 120 Vac) + USB Cable TF Card + Camera (Front) + WCDMA Band V idle (869 - 894 MHz) + Wi-Fi idle + BT idle + GNSS
	Test Mode 3 : Charging from Adapter (with 120 Vac) + USB Cable TF Card + Camera (Back) + LTE Band 26(5) idle (859 - 894 MHz) + Wi-Fi idle + BT idle + GNSS
	Test Mode 4 : Charging from 240 Vac (with adapter) + Worst from mode 1~3 + LTE Band 13 idle (777 - 787 MHz)
	Test Mode 5 : Airplane mode + MP4 playing + OTG (With USB Disk) + Earphone
	Test Mode 6 : Charging from WPTs + MP4 playing + LTE Band 12&17(729 - 746 MHz) idle + GNSS
	Test Mode 7 : Data transfer with notebook + USB Cable + TF Card + LTE B71 idle (617- 652 MHz) + Wi-Fi idle + BT idle + GNSS
Conducted Emission	Test Mode 1 : Charging from Adapter (with 120 Vac) + USB Cable TF Card + MP4 playing + GSM 850 idle(869 - 894 MHz) + Wi-Fi idle + BT idle + GNSS + Earphone
	Test Mode 2 : Charging from Adapter (with 120 Vac) + USB Cable TF Card + Camera (Front) + WCDMA Band V idle (869 - 894 MHz) + Wi-Fi idle + BT idle + GNSS
	Test Mode 3 : Charging from Adapter (with 120 Vac) + USB Cable TF Card + Camera (Back) + LTE Band 26(5) idle (859 - 894 MHz) + Wi-Fi idle + BT idle + GNSS
	Test Mode 4 : Charging from 240 Vac (with adapter) + Worst from mode 1~3 + LTE Band 13 idle (777 - 787 MHz)
	Test Mode 6 : Charging from WPTs + MP4 playing + LTE Band 12&17(729 - 746 MHz) idle + GNSS
	Test Mode 7 : Data transfer with notebook + USB Cable + TF Card + LTE B71 idle (617- 652 MHz) + Wi-Fi idle + BT idle + GNSS
	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

Figure 1. 30MHz to 1GHz

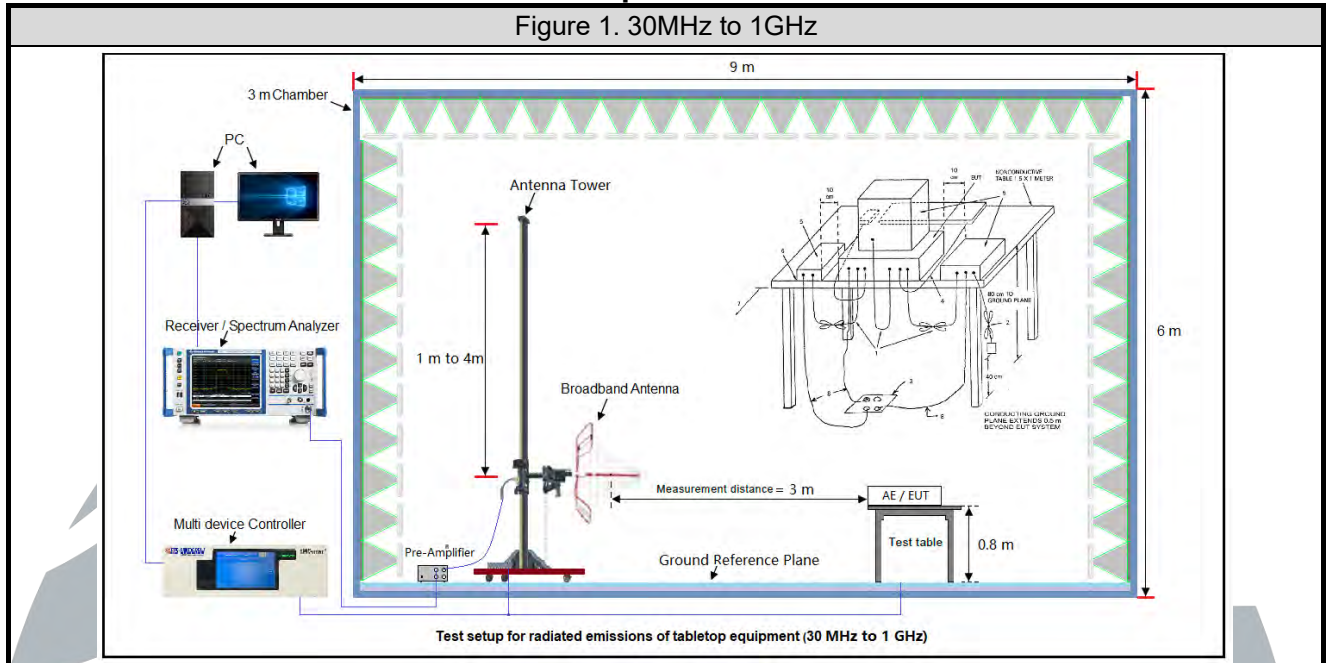
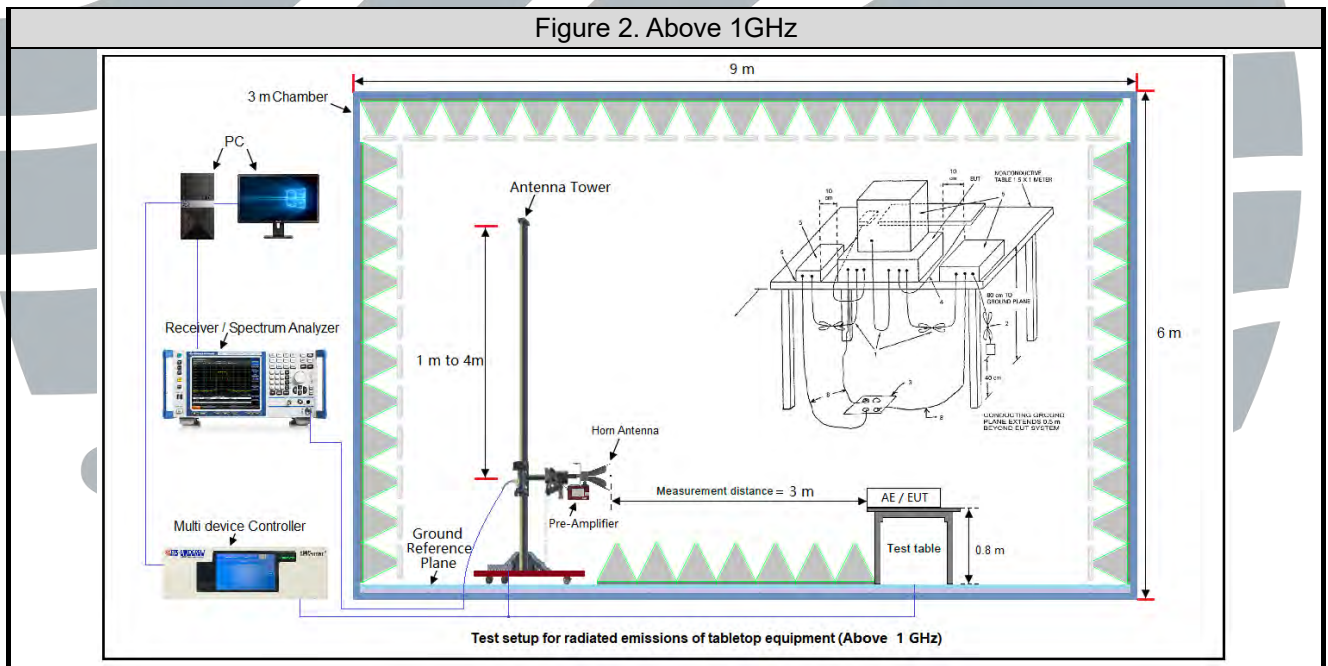
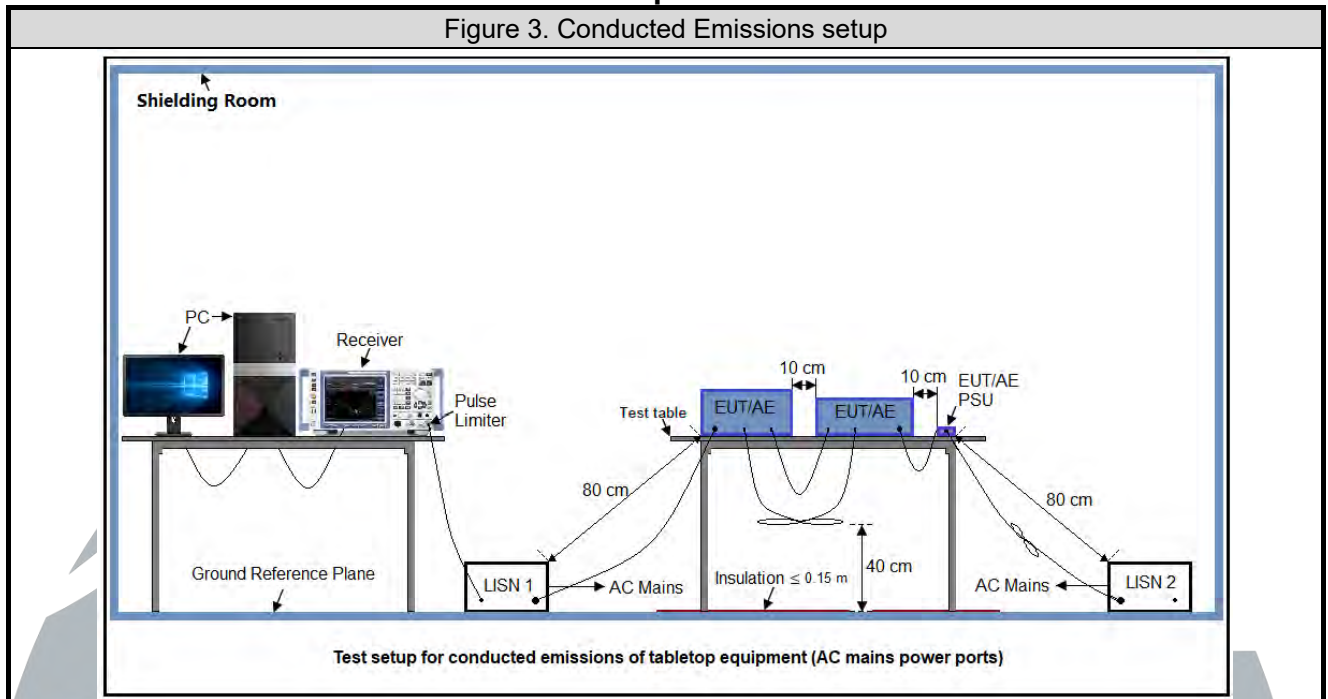


Figure 2. Above 1GHz



4.3.2 For Conducted Emissions test setup

Figure 3. Conducted Emissions 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.

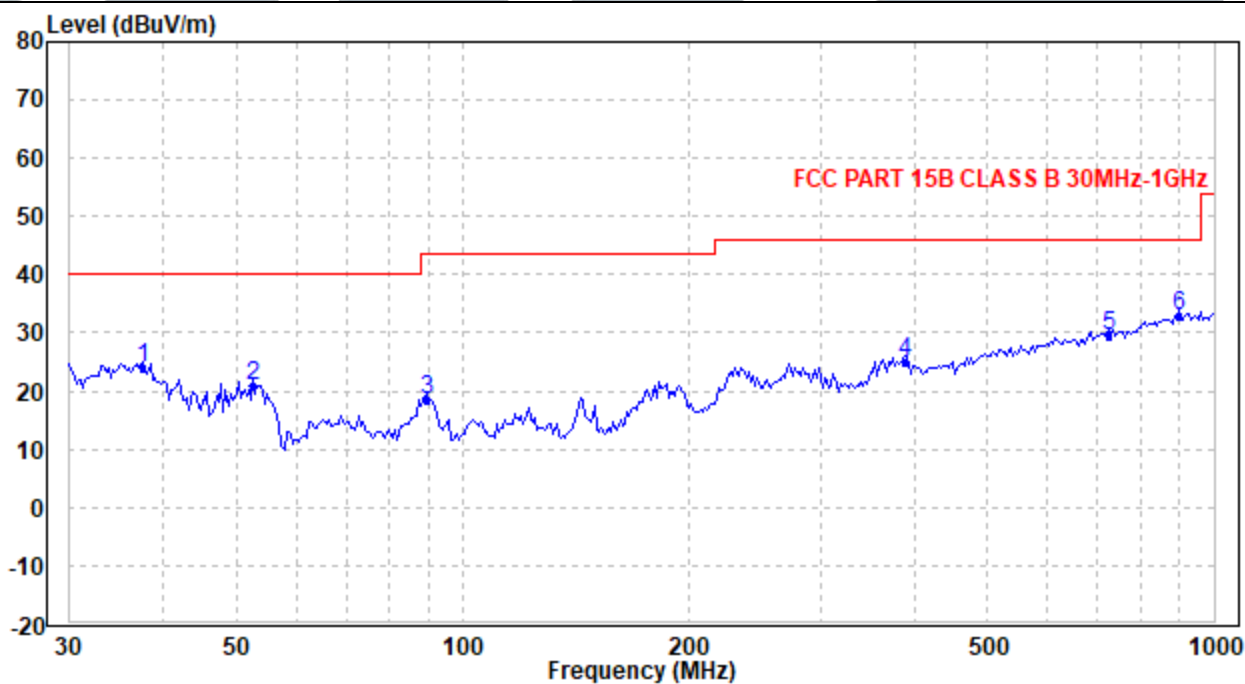
Test Result: Pass

The worst measurement data as follows:

Below 1GHz (Quasi Peak):

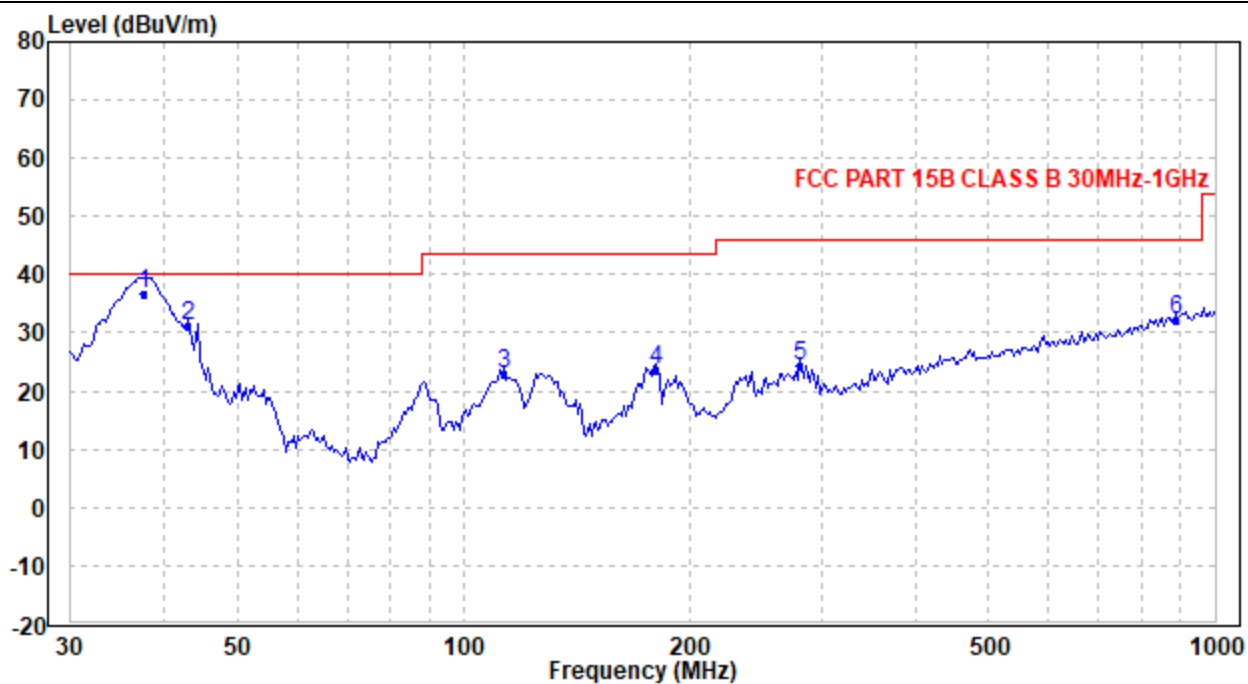
Test Mode 2

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	37.565	32.42	-8.35	24.07	40.00	-15.93	QP
2	52.634	36.89	-16.07	20.82	40.00	-19.18	QP
3	89.787	35.18	-16.70	18.48	43.50	-25.02	QP
4	387.257	28.91	-3.79	25.12	46.00	-20.88	QP
5	723.793	26.60	2.98	29.58	46.00	-16.42	QP
6	899.958	26.48	6.50	32.98	46.00	-13.02	QP

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	37.565	44.88	-8.35	36.53	40.00	-3.47	QP
2	42.931	42.80	-11.72	31.08	40.00	-8.92	QP
3	113.22	38.50	-15.63	22.87	43.50	-20.63	QP
4	180.03	35.21	-11.52	23.69	43.50	-19.81	QP
5	280.294	31.53	-7.33	24.20	46.00	-21.80	QP
6	887.398	26.11	6.16	32.27	46.00	-13.73	QP

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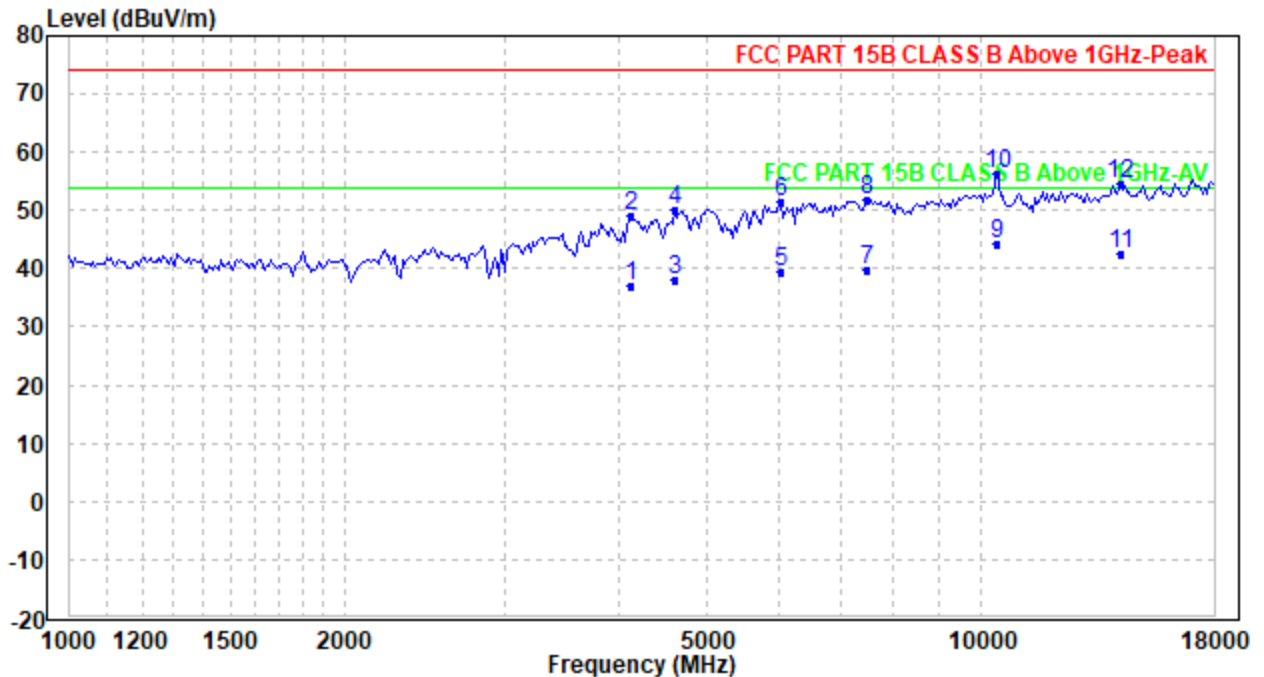
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Above 1GHz (Peak & Average)
Test Mode 2
Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4133.483	35.27	1.68	36.95	54.00	-17.05	Average
2	4133.483	47.27	1.68	48.95	74.00	-25.05	Peak
3	4614.367	35.82	2.16	37.98	54.00	-16.02	Average
4	4614.367	47.82	2.16	49.98	74.00	-24.02	Peak
5	6023.218	35.15	4.21	39.36	54.00	-14.64	Average
6	6023.218	47.15	4.21	51.36	74.00	-22.64	Peak
7	7506.207	35.27	4.51	39.78	54.00	-14.22	Average
8	7506.207	47.27	4.51	51.78	74.00	-22.22	Peak
9	10382.28	37.87	6.28	44.15	54.00	-9.85	Average
10	10382.28	49.87	6.28	56.15	74.00	-17.85	Peak
11	14194.95	32.49	10.15	42.64	54.00	-11.36	Average
12	14194.95	44.49	10.15	54.64	74.00	-19.36	Peak

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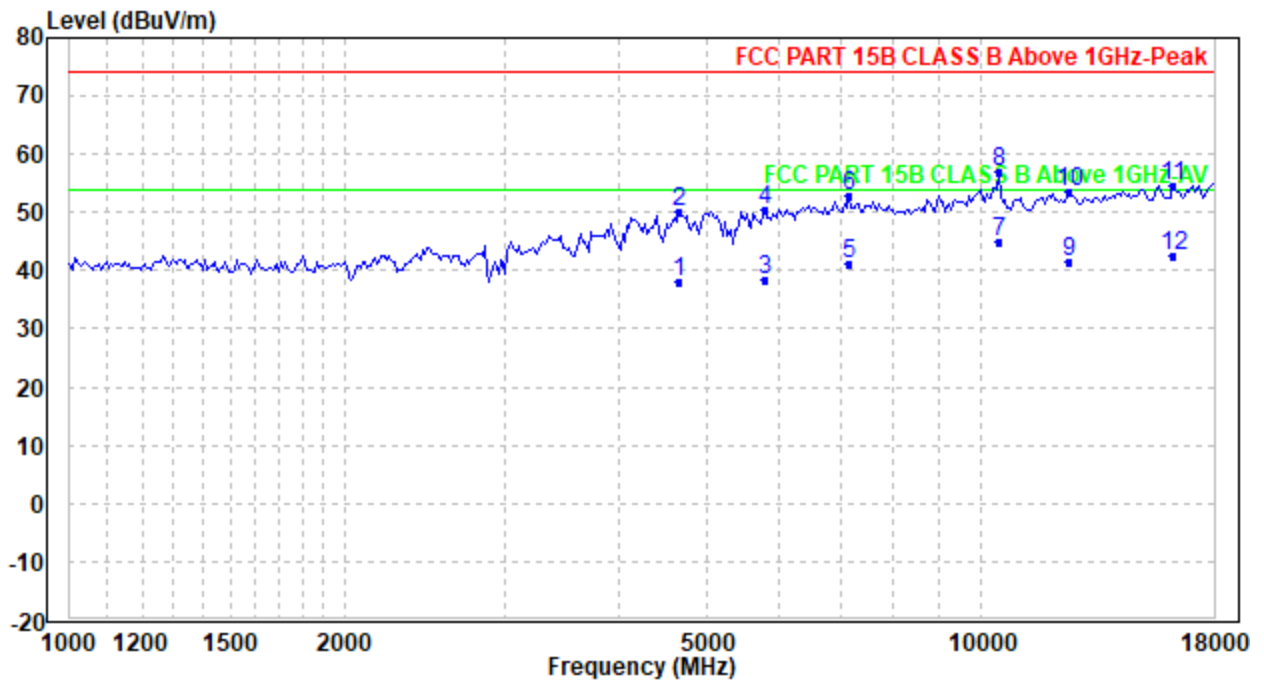
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Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4668.133	35.86	2.22	38.08	54.00	-15.92	Average
2	4668.133	47.86	2.22	50.08	74.00	-23.92	Peak
3	5783.884	34.58	3.75	38.33	54.00	-15.67	Average
4	5783.884	46.58	3.75	50.33	74.00	-23.67	Peak
5	7166.315	36.86	4.14	41.00	54.00	-13.00	Average
6	7166.315	48.86	4.14	53.00	74.00	-21.00	Peak
7	10442.59	38.86	6.25	45.11	54.00	-8.89	Average
8	10442.59	50.86	6.25	57.11	74.00	-16.89	Peak
9	12496.58	34.52	7.12	41.64	54.00	-12.36	Average
10	12496.58	46.52	7.12	53.64	74.00	-20.36	Peak
11	16217.81	45.99	8.51	54.50	74.00	-19.50	Peak
12	16217.81	33.99	8.51	42.50	54.00	-11.50	Average

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.

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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.

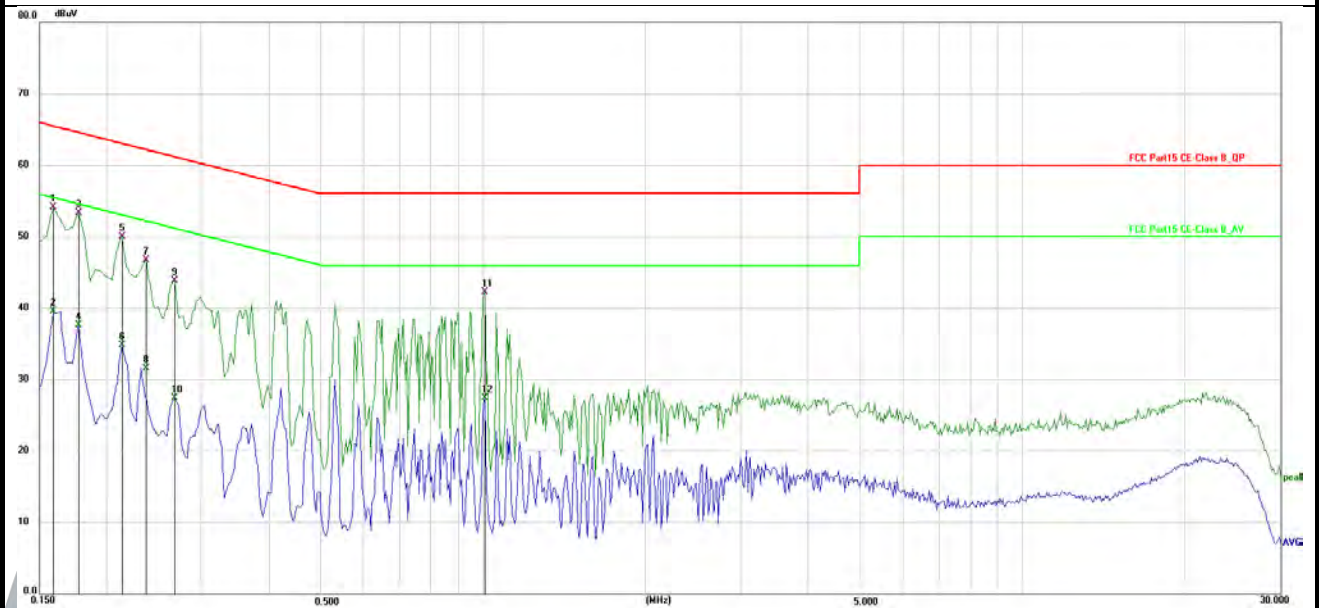
Test Result: Pass

The worst measurement data as follows:

Quasi Peak and Average:

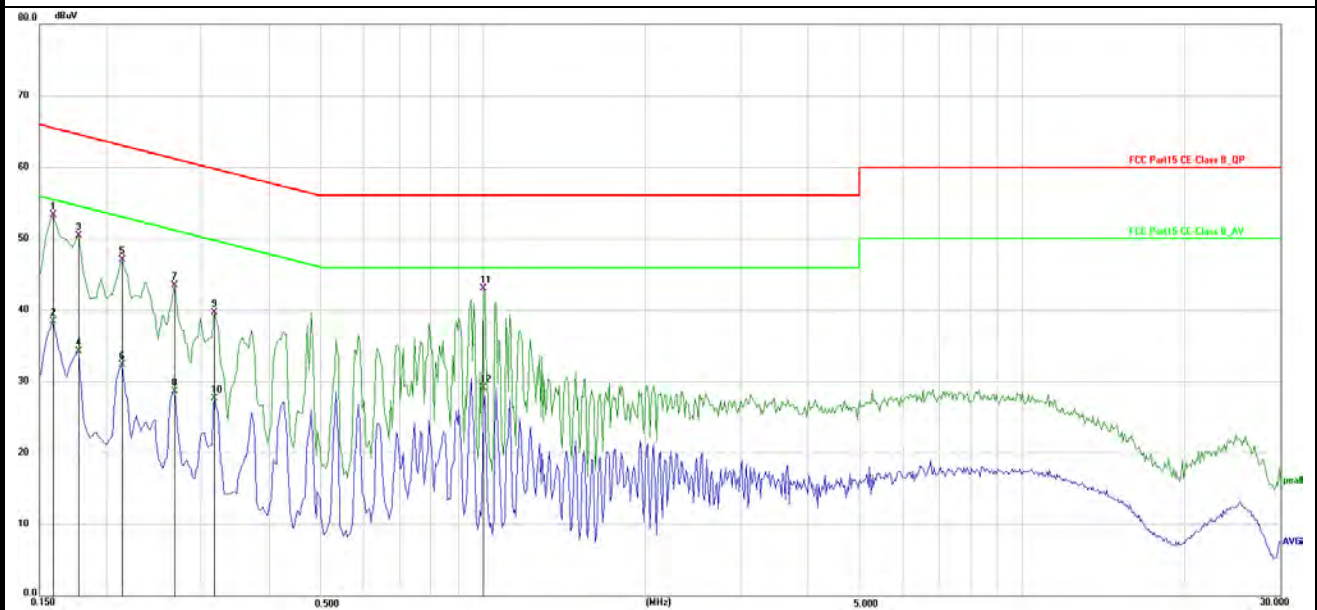
Test Mode 1

Live Line



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1590	43.88	10.30	54.18	65.52	-11.34	QP
2	0.1590	29.21	10.30	39.51	55.52	-16.01	AVG
3	0.1770	43.07	10.27	53.34	64.63	-11.29	QP
4	0.1770	27.41	10.27	37.68	54.63	-16.95	AVG
5	0.2130	39.71	10.27	49.98	63.09	-13.11	QP
6	0.2130	24.52	10.27	34.79	53.09	-18.30	AVG
7	0.2354	36.44	10.26	46.70	62.26	-15.56	QP
8	0.2354	21.37	10.26	31.63	52.26	-20.63	AVG
9	0.2670	33.54	10.26	43.80	61.21	-17.41	QP
10	0.2670	17.17	10.26	27.43	51.21	-23.78	AVG
11	1.0050	32.08	10.18	42.26	56.00	-13.74	QP
12	1.0050	17.20	10.18	27.38	46.00	-18.62	AVG

Neutral Line



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1590	43.09	10.29	53.38	65.52	-12.14	QP
2	0.1590	28.15	10.29	38.44	55.52	-17.08	AVG
3	0.1770	40.18	10.28	50.46	64.63	-14.17	QP
4	0.1770	23.96	10.28	34.24	54.63	-20.39	AVG
5	0.2130	36.83	10.26	47.09	63.09	-16.00	QP
6	0.2130	22.08	10.26	32.34	53.09	-20.75	AVG
7	0.2670	33.24	10.24	43.48	61.21	-17.73	QP
8	0.2670	18.39	10.24	28.63	51.21	-22.58	AVG
9	0.3165	29.46	10.23	39.69	59.80	-20.11	QP
10	0.3165	17.44	10.23	27.67	49.80	-22.13	AVG
11	1.0004	32.81	10.19	43.00	56.00	-13.00	QP
12	1.0004	18.90	10.19	29.09	46.00	-16.91	AVG

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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UTTR-EMC-FCCPART15B-V1.1

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.
