



TEST REPORT

Application No.: FYFR2203000016AT
Applicant: Sky Intelligent Investment Limited
Address of Applicant: RM10,6/F KWONG SANG HONG CTR 151-153 HOI BUN RD KWUN TONG KL, HongKong China
Manufacturer: Sky Intelligent Investment Limited
Address of Manufacturer: RM10,6/F KWONG SANG HONG CTR 151-153 HOI BUN RD KWUN TONG KL, HongKong China
Factory: Huizhou Golden lake Industrial Co.,Ltd
Address of Factory: Dongjiang Industrial Estate, Shuikou street, Huicheng District, Huizhou City, Guangdong Province, P.R.China

Equipment Under Test (EUT):

EUT Name: Portable Power Station
Model No.: SPS-700-01
Trade Mark: SHELL
FCC ID: 2AZXL-SPS-700-01
Standard(s) : 47 CFR Part 15, Subpart C
Date of Receipt: 2022-03-07
Date of Test: 2022-03-08 to 2022-04-26
Date of Issue: 2022-04-28

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Kidd Yang
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-04-28		Original

Authorized for issue by:			
		Tree Zhan	
		Tree Zhan/Project Engineer	
		Winkey Wang	
		Winkey Wang/Reviewer	

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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C	N/A	47 CFR Part 15, Subpart C 15.203	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)	47 CFR Part 15, Subpart C	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Radiated Emissions (30MHz-1GHz)		ANSI C63.10 (2013) Section 6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Emissions (9kHz-30MHz)		ANSI C63.10 (2013) Section 6.4	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
20dB Bandwidth		ANSI C63.10 (2013) Section 6.9.2	47 CFR Part 15, Subpart C 15.215	Pass
Restricted Bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205	Pass

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4 General Information

4.1 Details of E.U.T.

Power supply:	Cell Capacity: 4500mAh Rated Capacity: 27000mAh (21.6V/583Wh) DC Input: 11-30V/5A (120W Max) USB-C Input/ Output: 5V3A/ 9V3A/ 15V3A/ 20V3A (60W Max) AC Output: 120V~ 10A, 60Hz, 700W continuous, 1000W surge peak USB-A Output: 5V/2.4A (12W Max per port) USB-A QC Output: 5V3A/ 9V2A/ 12V1.5A (18W Max) DC Output: 12V/5A (per port) Car Charger Output: 12V/10A DC + Car Charger Output: 120W Max Wireless Charging Output: 15W Max Adapter Model: S120UO2400500 Input: 100-240V~50/60Hz 1.8A Output: DC 24.0V 25.0A 120.0W Max.
Cable(s):	AC cable: 120cm unshielded DC cable: 150cm unshielded with one core Car charger cable: 120cm shielded
Antenna Type:	Loop Antenna
Modulation Type:	Load Modulation
Operation Frequency:	114.4KHz-145.6KHz

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Mobile Phone	Nexus	MRA58K	REF. No.SEA16P01
iPhone 8	Apple	A1863	REF. No.SEA16J00
Mobile Phone	SAMSUNG	SM-G9500	REF. No.SEA1M00
Mobile Phone	SAMSUNG	SM-G9810	REF. No.SEA16K00
Type-C Adapter	ZENDURE	ZD4P90DPD	REF. No.SEA056720
DC power supply	XANTREX	XFR 100-12	REF. No.SEA27A00
Load Resistor	SGS	N/A(USB-A)	REF. No.SEA06A00
Load Resistor	SGS	N/A(USB-A)	REF. No.SEA37A00
Load Resistor	SGS	N/A(USB-A)	REF. No.SEA07A00
Load Resistor	SGS	N/A(Type-C)	REF. No.SEA38A00
DC cables	N/A	N/A	Client supply
Type-C cable	N/A	N/A	Client supply

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4.3 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.4 Test Facility

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

- **A2LA (Certificate No. 6606.01)**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

- **FCC –Designation Number: CN1322**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

- **Innovation, Science and Economic Development Canada**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

4.5 Deviation from Standards

None

4.6 Abnormalities from Standard Conditions

None

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5 Equipment List

20dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021/7/13	2022/7/12
MXA Signal Analyzer(10Hz-26.5GHz)	Agilent	N9020A	SEM004-20	2021/7/13	2022/7/12
Signal Generator(9kHz-40GHz)	Agilent	N5173B	SEM006-05	2021/7/13	2022/7/12
ESG Vector Signal Generator(250kHz-6GHz)	Agilent	E4438C	SEM006-15	2021/7/13	2022/7/12
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2021/7/13	2022/7/12
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2021/7/13	2022/7/12
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2021/7/13	2022/7/12
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2021/7/13	2022/7/12
Attenuator(18GHz, 20dB, 2W)	Huber+Suhner	6620_SMA-50-1	SEM021-09	2021/7/13	2022/7/12
Electric and Magnetic Field Probe - Analyzer(3kHz-30MHz)	Narda	EHP-200AC	SEM022-20	2021/4/8	2022/4/7
				2022/4/6	2023/4/5

Restricted bands					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021/7/13	2022/7/12
MXA Signal Analyzer(10Hz-26.5GHz)	Agilent	N9020A	SEM004-20	2021/7/13	2022/7/12
Signal Generator(9kHz-40GHz)	Agilent	N5173B	SEM006-05	2021/7/13	2022/7/12
ESG Vector Signal Generator(250kHz-6GHz)	Agilent	E4438C	SEM006-15	2021/7/13	2022/7/12
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2021/7/13	2022/7/12
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2021/7/13	2022/7/12
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2021/7/13	2022/7/12

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Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2021/7/13	2022/7/12
Attenuator(18GHz, 20dB, 2W)	Huber+Suhner	6620_SMA-50-1	SEM021-09	2021/7/13	2022/7/12
Electric and Magnetic Field Probe - Analyzer(3kHz-30MHz)	Narda	EHP-200AC	SEM022-20	2021/4/8	2022/4/7
				2022/4/6	2023/4/5

Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	CRT	N/A	SEM001-14	2021/7/13	2024/7/12
EMI Test Receiver(9kHz-3GHz)	Rohde & Schwarz	ESCI	SEM004-01	2021/7/13	2022/7/12
Two-Line V-Network(9kHz-30MHz)	Rohde & Schwarz	ENV216	SEM007-16	2021/7/13	2022/7/12
Two-Line V-Network(9kHz-30MHz)	Rohde & Schwarz	ESH3-Z5	SEM007-22	2021/7/13	2022/7/12

Radiated emission(30MHz-1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2022/7/12
Trilog-Broadband Antenna(25MHz-2GHz)	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
Biconical Antenna(150MHz-1GHz)	Schwarzbeck	VUBA9117	SEM003-35	2021/12/26	2024/12/25
Loop Antenna(9kHz-30MHz)	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25
MXE EMI receiver(20Hz-8.4GHz)	Agilent	N9038A	SEM004-05	2021/7/13	2022/7/12
Pre-amplifier (0.1-1.3GHz)	HP	8447D	SEM005-02	2021/7/13	2022/7/12
Broad-Band Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2021/7/11	2024/7/10
Broad-Band Horn Antenna (1-18GHz)	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
Double-ridged waveguide horn (1-18GHz)	ETS-LINDGREN	3117	SEM003-34	2021/9/25	2024/9/24
Spectrum Analyzer(20Hz-43GHz)	Rohde & Schwarz	101288	SEM004-08	2021/7/13	2022/7/12
Low Noise Amplifier(100MHz-18GHz)	CLAVIIO	BDLNA-0118-352810	SEM005-05	2021/7/13	2022/7/12
Pre-amplifier(26GHz-	Compliance Directions Systems	PAP-2640-50	SEM005-08	2021/7/13	2022/7/12

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40GHz)	Inc.				
Pre-amplifier(18GHz-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2021/7/13	2022/7/12

Radiated emissions(9KHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2022/7/12
Trilog-Broadband Antenna(25MHz-2GHz)	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
Biconical Antenna(150MHz-1GHz)	Schwarzbeck	VUBA9117	SEM003-35	2021/12/26	2024/12/25
Loop Antenna(9kHz-30MHz)	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25
MXE EMI receiver(20Hz-8.4GHz)	Agilent	N9038A	SEM004-05	2021/7/13	2022/7/12
Pre-amplifier (0.1-1.3GHz)	HP	8447D	SEM005-02	2021/7/13	2022/7/12
Broad-Band Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2021/7/11	2024/7/10
Broad-Band Horn Antenna (1-18GHz)	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
Double-ridged waveguide horn (1-18GHz)	ETS-LINDGREN	3117	SEM003-34	2021/9/25	2024/9/24
Spectrum Analyzer(20Hz-43GHz)	Rohde & Schwarz	101288	SEM004-08	2021/7/13	2022/7/12
Low Noise Amplifier(100MHz-18GHz)	CLAVIIO	BDLNA-0118-352810	SEM005-05	2021/7/13	2022/7/12
Pre-amplifier(26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2021/7/13	2022/7/12
Pre-amplifier(18GHz-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2021/7/13	2022/7/12

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-22	2021-07-13	2022-07-12
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-23	2021-07-13	2022-07-12
Barometer	DUMAI	DYM3	SEM002-24	2021-07-13	2022-07-12

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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

The use of a permanently attached antenna or of an antenna that use an unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site.

However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement.

Refer to internal photos

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7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Mains Power Port (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207
Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of emission(MHz)	Conducted limit(dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 21.6 °C Humidity: 21.6 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	11	Charge+Charging mode_Keep the EUT charging(5W) and keep the battery of the EUT in charging(Adapter supply).
Pre-scan	12	Charge+Charging mode_Keep the EUT charging(7.5W) and keep the battery of the EUT in charging(Adapter supply).
Pre-scan	13	Charge+Charging mode_Keep the EUT charging(10W) and keep the battery of the EUT in charging(Adapter supply).
Pre-scan	14	Charge+Charging mode_Keep the EUT charging(15W) and keep the battery of the EUT in charging(Adapter supply).
Pre-scan	15	Charge+Charging mode_Keep the EUT charging(5W) and keep the battery of the EUT in charging(Type-C port supply).
Pre-scan	16	Charge+Charging mode_Keep the EUT charging(7.5W) and keep the battery of the EUT in charging(Type-C port supply).
Pre-scan	17	Charge+Charging mode_Keep the EUT charging(10W) and keep the battery of the EUT in charging(Type-C port supply).
Pre-scan	18	Charge+Charging mode_Keep the EUT charging(15W) and keep the battery of the EUT in charging(Type-C port supply).
Pre-scan	27	Charge+Charging mode_Keep the EUT charging(5W) and keep the battery of the EUT in charging(Adapter supply), while keep all output ports in discharging mode.
Pre-scan	28	Charge+Charging mode_Keep the EUT charging(7.5W) and keep the battery of the EUT in charging(Adapter supply), while keep all output ports in discharging mode.

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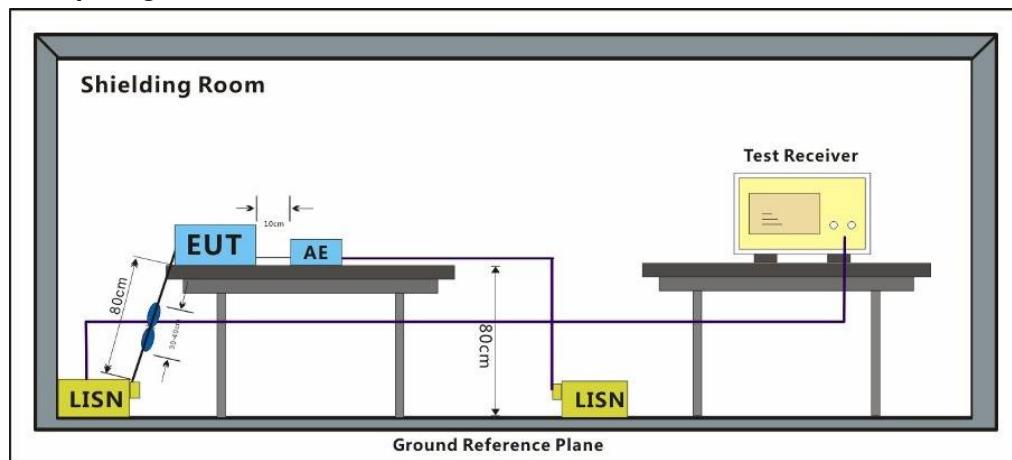
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Pre-scan	29	Charge+Charging mode_Keep the EUT charging(10W) and keep the battery of the EUT in charging(Adapter supply), while keep all output ports in discharging mode.
Final test	30	Charge+Charging mode_Keep the EUT charging(15W) and keep the battery of the EUT in charging(Adapter supply), while keep all output ports in discharging mode.
Pre-scan	31	Charge+Charging mode_Keep the EUT charging(5W) and keep the battery of the EUT in charging(Type-C port supply), while keep all output ports in discharging mode.
Pre-scan	32	Charge+Charging mode_Keep the EUT charging(7.5W) and keep the battery of the EUT in charging(Type-C port supply), while keep all output ports in discharging mode.
Pre-scan	33	Charge+Charging mode_Keep the EUT charging(10W) and keep the battery of the EUT in charging(Type-C port supply), while keep all output ports in discharging mode.
Final test	34	Charge+Charging mode_Keep the EUT charging(15W) and keep the battery of the EUT in charging(Type-C port supply), while keep all output ports in discharging mode.

7.1.3 Test Setup Diagram



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7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50µH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: Level=Read Level+ Cable Loss+ LISN Factor

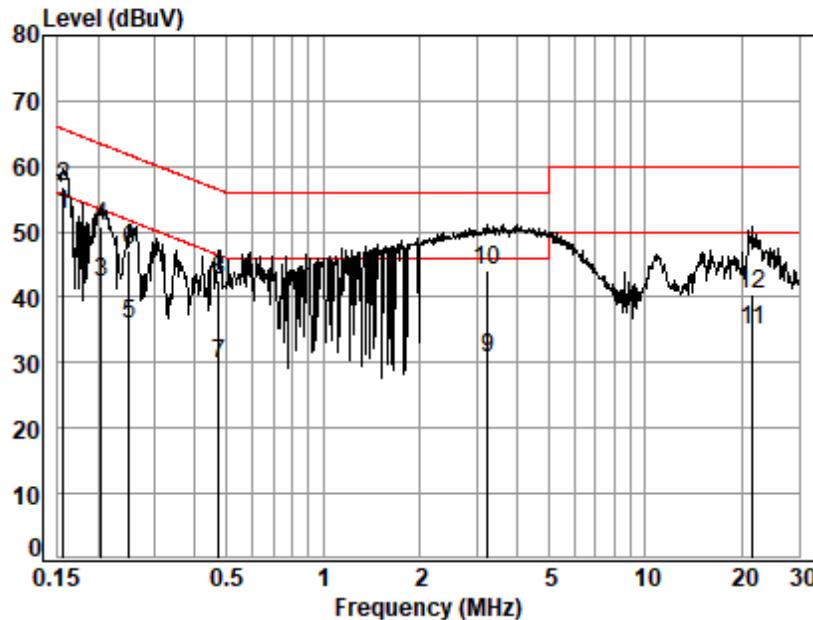
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Test Mode: 30; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 00016AT
Test mode: 30

Freq	Cable	LISN	Read	Limit		Over	Remark
	Loss	Factor	Level	Level	Line	Limit	
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.16	0.01	0.10	52.40	52.51	55.69	-3.18 Average
2	0.16	0.01	0.10	56.67	56.78	65.69	-8.91 QP
3	0.21	0.02	0.10	42.02	42.14	53.40	-11.26 Average
4	0.21	0.02	0.10	50.79	50.91	63.40	-12.49 QP
5	0.25	0.03	0.10	35.73	35.86	51.78	-15.92 Average
6	0.25	0.03	0.10	46.94	47.07	61.78	-14.71 QP
7	0.47	0.06	0.10	29.66	29.82	46.45	-16.63 Average
8	0.47	0.06	0.10	42.39	42.55	56.45	-13.90 QP
9	3.24	0.16	0.19	30.50	30.85	46.00	-15.15 Average
10	3.24	0.16	0.19	43.74	44.09	56.00	-11.91 QP
11	21.49	0.25	0.88	33.87	35.00	50.00	-15.00 Average
12	21.49	0.25	0.88	39.46	40.59	60.00	-19.41 QP

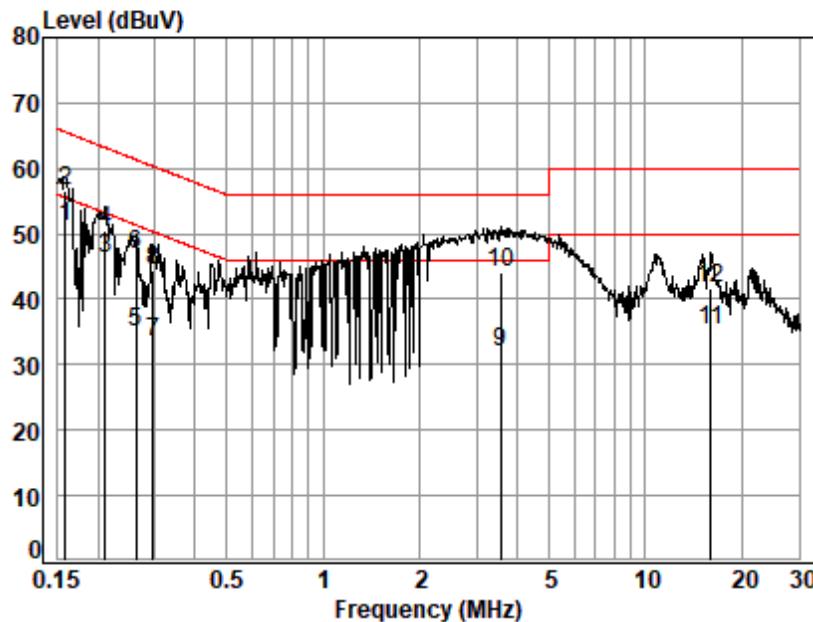


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Test Mode: 30; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 00016AT
Test mode: 30

Freq	Cable	LISN	Read	Limit	Over	Remark	
	Loss	Factor	Level				
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.16	0.01	0.10	51.07	51.18	55.56	-4.38 Average
2	0.16	0.01	0.10	56.37	56.48	65.56	-9.08 QP
3	0.21	0.02	0.10	46.22	46.34	53.18	-6.84 Average
4	0.21	0.02	0.10	50.26	50.38	63.18	-12.80 QP
5	0.26	0.03	0.10	34.75	34.88	51.38	-16.50 Average
6	0.26	0.03	0.10	46.72	46.85	61.38	-14.53 QP
7	0.30	0.04	0.10	33.38	33.52	50.37	-16.85 Average
8	0.30	0.04	0.10	44.18	44.32	60.37	-16.05 QP
9	3.55	0.16	0.20	31.70	32.06	46.00	-13.94 Average
10	3.55	0.16	0.20	43.66	44.02	56.00	-11.98 QP
11	15.97	0.22	0.66	34.49	35.37	50.00	-14.63 Average
12	15.97	0.22	0.66	40.72	41.60	60.00	-18.40 QP

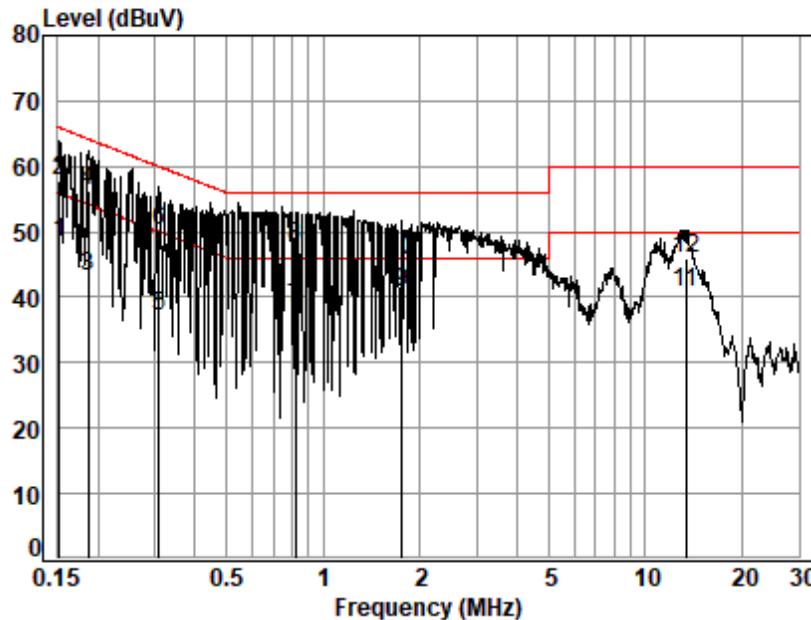


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Test Mode: 34; Line: Live line



Site : Shielding Room
 Condition: Line
 Job No. : 00016AT
 Test mode: 34

Freq	Cable	LISN	Read	Limit	Over	Remark	
	Freq	Loss	Factor				
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.15	0.01	0.10	48.21	48.32	55.91	-7.59 Average
2	0.15	0.01	0.10	57.76	57.87	65.91	-8.04 QP
3	0.19	0.02	0.10	43.06	43.18	54.20	-11.02 Average
4	0.19	0.02	0.10	56.11	56.23	64.20	-7.97 QP
5	0.31	0.04	0.10	37.01	37.15	50.02	-12.87 Average
6	0.31	0.04	0.10	50.02	50.16	60.02	-9.86 QP
7	0.82	0.08	0.11	38.03	38.22	46.00	-7.78 Average
8	0.82	0.08	0.11	47.58	47.77	56.00	-8.23 QP
9	1.75	0.15	0.14	40.61	40.90	46.00	-5.10 Average
10	1.75	0.15	0.14	45.40	45.69	56.00	-10.31 QP
11	13.41	0.20	0.63	39.82	40.65	50.00	-9.35 Average
12	13.41	0.20	0.63	45.14	45.97	60.00	-14.03 QP

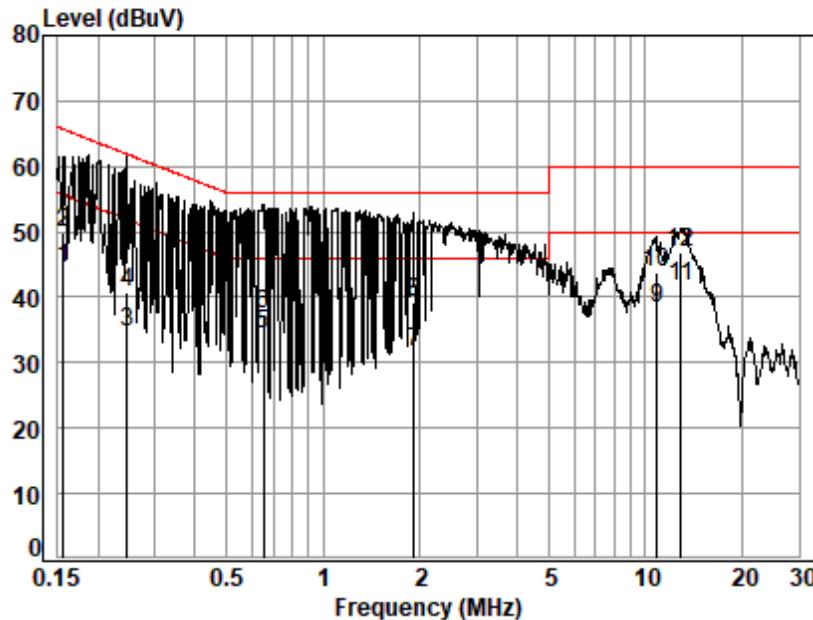
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Test Mode: 34; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 00016AT
Test mode: 34

Freq	Cable	LISN	Read	Limit	Over	Remark	
	Freq	Loss	Factor	Level	Level	Line	Limit
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.16	0.01	0.10	44.20	44.31	55.69	-11.38 Average
2	0.16	0.01	0.10	49.79	49.90	65.69	-15.79 QP
3	0.25	0.03	0.10	34.63	34.76	51.86	-17.10 Average
4	0.25	0.03	0.10	40.69	40.82	61.86	-21.04 QP
5	0.65	0.07	0.11	34.16	34.34	46.00	-11.66 Average
6	0.65	0.07	0.11	37.30	37.48	56.00	-18.52 QP
7	1.91	0.15	0.15	31.39	31.69	46.00	-14.31 Average
8	1.91	0.15	0.15	38.92	39.22	56.00	-16.78 QP
9	10.90	0.18	0.44	37.84	38.46	50.00	-11.54 Average
10	10.90	0.18	0.44	43.21	43.83	60.00	-16.17 QP
11	12.92	0.20	0.54	40.86	41.60	50.00	-8.40 Average
12	12.92	0.20	0.54	45.99	46.73	60.00	-13.27 QP



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7.2 Radiated Emissions (30MHz-1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.5

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector.

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 21.6 °C Humidity: 52.6 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	07	Charge mode_Keep the EUT charging(5W)
Pre-scan	08	Charge mode_Keep the EUT charging(7.5W)
Pre-scan	09	Charge mode_Keep the EUT charging(10W)
Pre-scan	10	Charge mode_Keep the EUT charging(15W)
Pre-scan	11	Charge+Charging mode_Keep the EUT charging(5W) and keep the battery of the EUT in charging(Adapter supply).
Pre-scan	12	Charge+Charging mode_Keep the EUT charging(7.5W) and keep the battery of the EUT in charging(Adapter supply).
Pre-scan	13	Charge+Charging mode_Keep the EUT charging(10W) and keep the battery of the EUT in charging(Adapter supply).
Pre-scan	14	Charge+Charging mode_Keep the EUT charging(15W) and keep the battery of the EUT in charging(Adapter supply).
Pre-scan	15	Charge+Charging mode_Keep the EUT charging(5W) and keep the battery of the EUT in charging(Type-C port supply).
Pre-scan	16	Charge+Charging mode_Keep the EUT charging(7.5W) and keep the battery of the EUT in charging(Type-C port supply).
Pre-scan	17	Charge+Charging mode_Keep the EUT charging(10W) and keep the battery of the EUT in charging(Type-C port supply).

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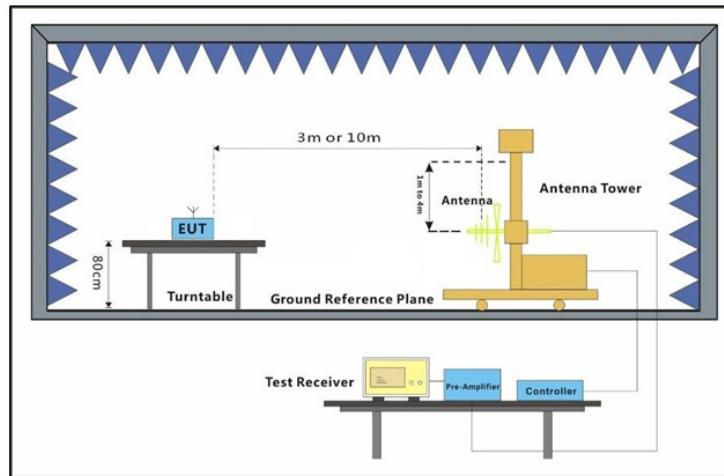
Pre-scan	18	Charge+Charging mode_Keep the EUT charging(15W) and keep the battery of the EUT in charging(Type-C port supply).
Pre-scan	19	Charge+Charging mode_Keep the EUT charging(5W) and keep the battery of the EUT in charging(DC port supply).
Pre-scan	20	Charge+Charging mode_Keep the EUT charging(7.5W) and keep the battery of the EUT in charging(DC port supply).
Pre-scan	21	Charge+Charging mode_Keep the EUT charging(10W) and keep the battery of the EUT in charging(DC port supply).
Pre-scan	22	Charge+Charging mode_Keep the EUT charging(15W) and keep the battery of the EUT in charging(DC port supply).
Pre-scan	23	Charge+Discharging mode_Keep the EUT charging(5W) and keep all output ports in discharging mode.
Pre-scan	24	Charge+Discharging mode_Keep the EUT charging(7.5W) and keep all output ports in discharging mode.
Pre-scan	25	Charge+Discharging mode_Keep the EUT charging(10W) and keep all output ports in discharging mode.
Pre-scan	26	Charge+Discharging mode_Keep the EUT charging(15W) and keep all output ports in discharging mode.
Pre-scan	27	Charge+Charging mode_Keep the EUT charging(5W) and keep the battery of the EUT in charging(Adapter supply), while keep all output ports in discharging mode.
Pre-scan	28	Charge+Charging mode_Keep the EUT charging(7.5W) and keep the battery of the EUT in charging(Adapter supply), while keep all output ports in discharging mode.
Pre-scan	29	Charge+Charging mode_Keep the EUT charging(10W) and keep the battery of the EUT in charging(Adapter supply), while keep all output ports in discharging mode.
Final test	30	Charge+Charging mode_Keep the EUT charging(15W) and keep the battery of the EUT in charging(Adapter supply), while keep all output ports in discharging mode.
Pre-scan	31	Charge+Charging mode_Keep the EUT charging(5W) and keep the battery of the EUT in charging(Type-C port supply), while keep all output ports in discharging mode.
Pre-scan	32	Charge+Charging mode_Keep the EUT charging(7.5W) and keep the battery of the EUT in charging(Type-C port supply), while keep all output ports in discharging mode.
Pre-scan	33	Charge+Charging mode_Keep the EUT charging(10W) and keep the battery of the EUT in charging(Type-C port supply), while keep all output ports in discharging mode.
Final test	34	Charge+Charging mode_Keep the EUT charging(15W) and keep the battery of the EUT in charging(Type-C port supply), while keep all output ports in discharging mode.
Pre-scan	35	Charge+Charging mode_Keep the EUT charging(5W) and keep the battery of the EUT in charging(DC port supply), while keep all output ports in discharging mode.
Pre-scan	36	Charge+Charging mode_Keep the EUT charging(7.5W) and keep the battery of the EUT in charging(DC port supply), while keep all output ports in discharging mode.
Pre-scan	37	Charge+Charging mode_Keep the EUT charging(10W) and keep the battery of the EUT in charging(DC port supply), while keep all output ports in discharging mode.
Pre-scan	38	Charge+Charging mode_Keep the EUT charging(15W) and keep the battery of the EUT in charging(DC port supply), while keep all output ports in discharging mode.

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7.2.3 Test Setup Diagram**7.2.4 Measurement Procedure and Data**

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground for below 1GHz at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

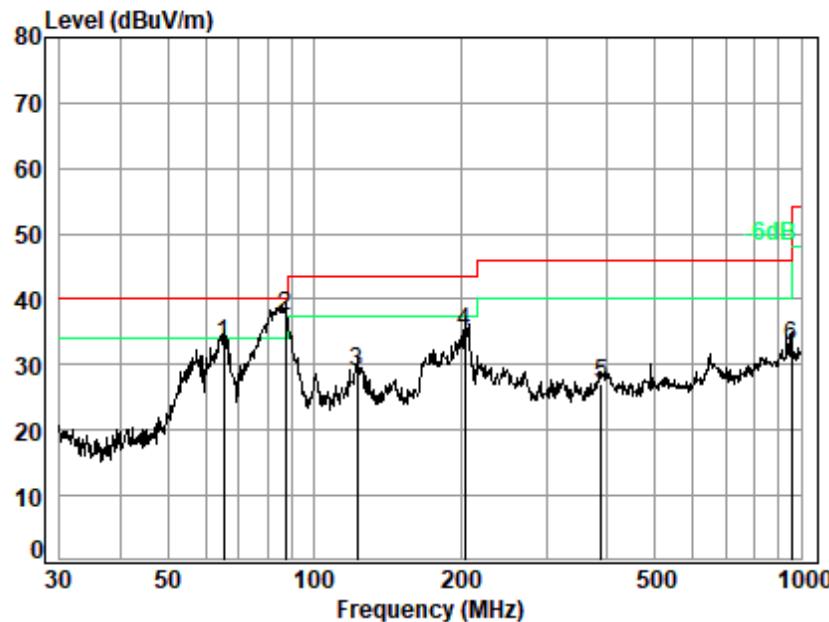


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Test Mode: 30; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00016AT
Mode : 30

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	65.1145	0.25	16.54	25.84	42.35	33.30	40.00	-6.70 QP
2 p	87.1117	0.61	13.63	25.81	49.00	37.43	40.00	-2.57 QP
3	122.4040	0.93	15.93	25.67	37.81	29.00	43.50	-14.50 QP
4	204.2377	0.71	15.28	25.34	44.43	35.08	43.50	-8.42 QP
5	389.3549	1.67	20.56	25.74	30.52	27.01	46.00	-18.99 QP
6	955.4382	2.13	29.30	26.28	27.73	32.88	46.00	-13.12 QP

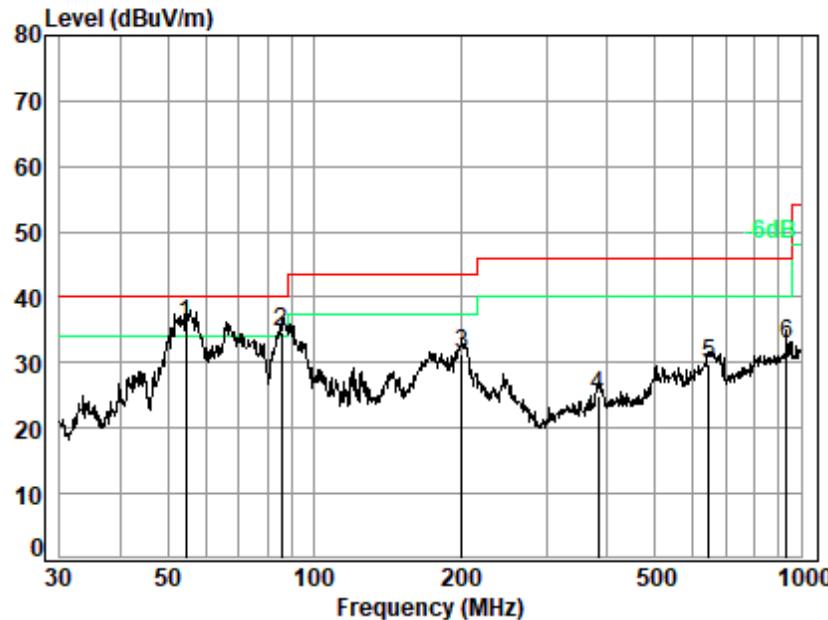
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Test Mode: 30; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 00016AT
Mode : 30

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	54.4516	0.23	17.26	25.85	44.22	35.86	40.00	-4.14 QP
2	85.5977	0.57	13.80	25.81	46.15	34.71	40.00	-5.29 QP
3	200.6881	0.70	15.13	25.36	40.98	31.45	43.50	-12.05 QP
4	382.5879	1.64	20.34	25.70	28.67	24.95	46.00	-21.05 QP
5	645.1195	2.06	25.11	26.75	29.35	29.77	46.00	-16.23 QP
6	935.5463	2.13	29.22	26.32	27.87	32.90	46.00	-13.10 QP

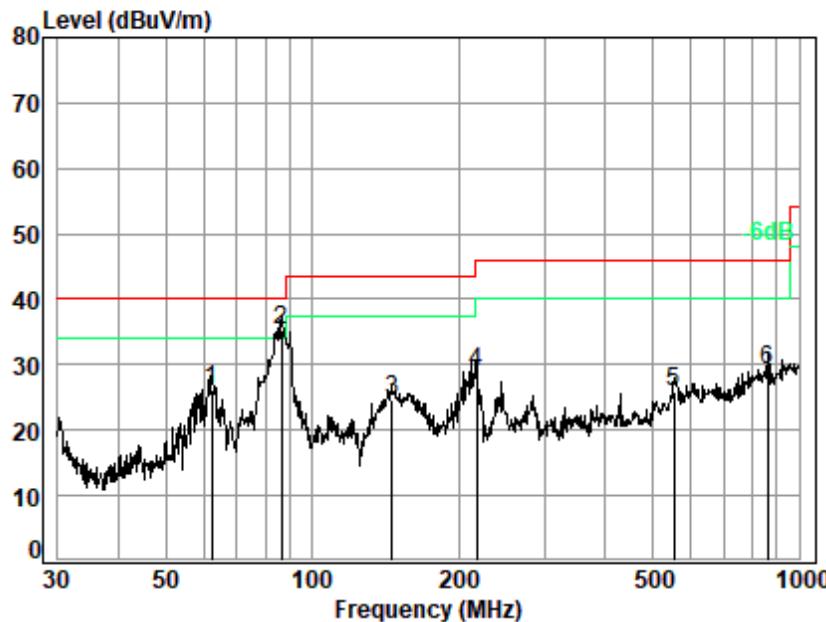
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Test Mode: 34; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00016AT
Mode : 34

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	62.2128	0.24	16.71	25.84	35.17	26.28	40.00	-13.72 QP
2 p	86.5029	0.59	13.70	25.81	46.92	35.40	40.00	-4.60 QP
3	145.8611	0.87	17.43	25.56	31.88	24.62	43.50	-18.88 QP
4	217.5443	0.75	15.77	25.30	37.57	28.79	46.00	-17.21 QP
5	552.8833	1.82	23.85	26.60	26.84	25.91	46.00	-20.09 QP
6	860.0352	2.82	27.58	26.47	25.15	29.08	46.00	-16.92 QP

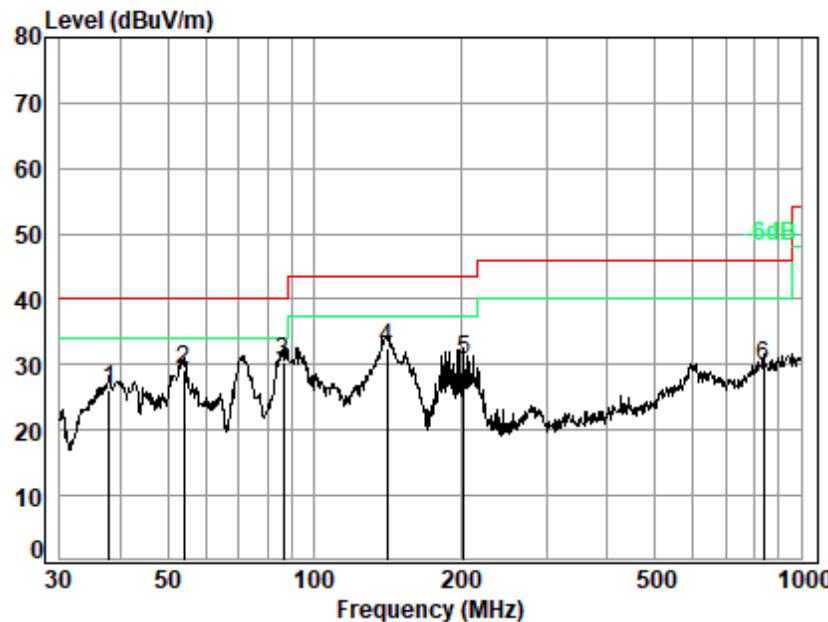
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Test Mode: 34; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 00016AT
Mode : 34

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Freq	Loss	Factor	Factor				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	37.8121	0.20	16.23	25.88	35.69	26.24	40.00	-13.76 QP
2	53.8818	0.23	17.26	25.85	37.49	29.13	40.00	-10.87 QP
3 p	86.5029	0.59	13.70	25.81	42.06	30.54	40.00	-9.46 QP
4	140.8351	0.90	17.44	25.58	39.72	32.48	43.50	-11.02 QP
5	202.8104	0.71	15.22	25.35	40.01	30.59	43.50	-12.91 QP
6	836.2443	2.88	27.78	26.52	25.56	29.70	46.00	-16.30 QP

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7.3 Radiated Emissions (9kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.

If field strength is measured at only a single point, then that point shall be at the radial from the EUT that produces the maximum emission at the frequency being measured, as described in 5.4. If that point is closer to the EUT than $\lambda/2\pi$ and the limit distance is greater than $\lambda/2\pi$, the measurement shall be extrapolated to the limit distance by conservatively presuming that the field strength decreases at a 40 dB/decade of distance rate to the $\lambda/2\pi$ distance, and at a 20 dB/decade of distance rate beyond $\lambda/2\pi$. This shall be accomplished using Equation (2):

$$FS_{(10m)} = FS_{(30/300m)} + 40\log\{d_{(near\ field)}/d_{(10m)}\} + 20\log\{d_{(30/300m)}/d_{(near\ field)}\} \quad (2)$$

If the single point measured is at a distance greater than $\lambda/2\pi$, then extrapolation to the limit distance shall be calculated using Equation (3):

$$FS_{(10m)} = FS_{(30/300m)} + 20\log\{d_{(30/300m)}/d_{(10m)}\} \quad (3)$$

If both the single point and the limit distance are equal to or closer to the EUT than $\lambda/2\pi$, then extrapolation to the limit distance shall be calculated using Equation (4):

$$FS_{(10m)} = FS_{(30/300m)} + 40\log\{d_{(30/300m)}/d_{(10m)}\} \quad (4)$$

Remark:

$$d_{near\ field} = 47.77 / f_{MHz}$$

where f_{MHz} is the frequency of the emission being measured in MHz.

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7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 21.6 °C

Humidity: 52.3 % RH

Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	07	Charge mode_Keep the EUT charging(5W)
Pre-scan	08	Charge mode_Keep the EUT charging(7.5W)
Pre-scan	09	Charge mode_Keep the EUT charging(10W)
Pre-scan	10	Charge mode_Keep the EUT charging(15W)
Pre-scan	11	Charge+Charging mode_Keep the EUT charging(5W) and keep the battery of the EUT in charging(Adapter supply).
Pre-scan	12	Charge+Charging mode_Keep the EUT charging(7.5W) and keep the battery of the EUT in charging(Adapter supply).
Pre-scan	13	Charge+Charging mode_Keep the EUT charging(10W) and keep the battery of the EUT in charging(Adapter supply).
Pre-scan	14	Charge+Charging mode_Keep the EUT charging(15W) and keep the battery of the EUT in charging(Adapter supply).
Pre-scan	15	Charge+Charging mode_Keep the EUT charging(5W) and keep the battery of the EUT in charging(Type-C port supply).
Pre-scan	16	Charge+Charging mode_Keep the EUT charging(7.5W) and keep the battery of the EUT in charging(Type-C port supply).
Pre-scan	17	Charge+Charging mode_Keep the EUT charging(10W) and keep the battery of the EUT in charging(Type-C port supply).
Pre-scan	18	Charge+Charging mode_Keep the EUT charging(15W) and keep the battery of the EUT in charging(Type-C port supply).
Pre-scan	19	Charge+Charging mode_Keep the EUT charging(5W) and keep the battery of the EUT in charging(DC port supply).
Pre-scan	20	Charge+Charging mode_Keep the EUT charging(7.5W) and keep the battery of the EUT in charging(DC port supply).
Pre-scan	21	Charge+Charging mode_Keep the EUT charging(10W) and keep the battery of the EUT in charging(DC port supply).
Pre-scan	22	Charge+Charging mode_Keep the EUT charging(15W) and keep the battery of the EUT in charging(DC port supply).
Pre-scan	23	Charge+Discharging mode_Keep the EUT charging(5W) and keep all output ports in discharging mode.
Pre-scan	24	Charge+Discharging mode_Keep the EUT charging(7.5W) and keep all output ports in discharging mode.
Pre-scan	25	Charge+Discharging mode_Keep the EUT charging(10W) and keep all output ports in discharging mode.
Pre-scan	26	Charge+Discharging mode_Keep the EUT charging(15W) and keep all output ports in discharging mode.
Pre-scan	27	Charge+Charging mode_Keep the EUT charging(5W) and keep the battery of the

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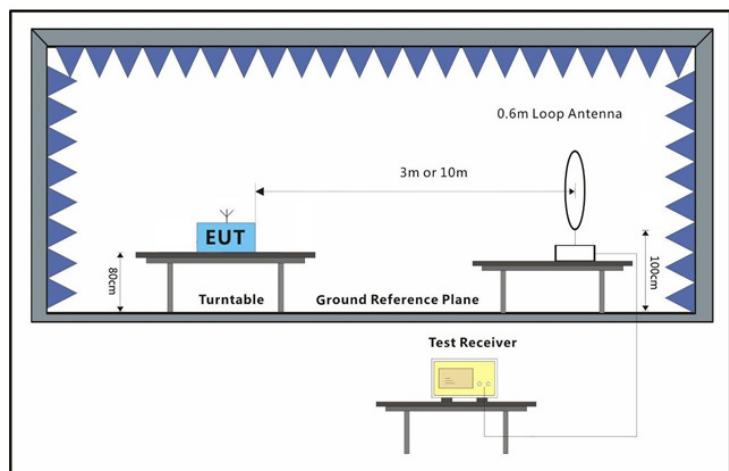
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		EUT in charging(Adapter supply), while keep all output ports in discharging mode.
Pre-scan	28	Charge+Charging mode_Keep the EUT charging(7.5W) and keep the battery of the EUT in charging(Adapter supply), while keep all output ports in discharging mode.
Pre-scan	29	Charge+Charging mode_Keep the EUT charging(10W) and keep the battery of the EUT in charging(Adapter supply), while keep all output ports in discharging mode.
Final test	30	Charge+Charging mode_Keep the EUT charging(15W) and keep the battery of the EUT in charging(Adapter supply), while keep all output ports in discharging mode.
Pre-scan	31	Charge+Charging mode_Keep the EUT charging(5W) and keep the battery of the EUT in charging(Type-C port supply), while keep all output ports in discharging mode.
Pre-scan	32	Charge+Charging mode_Keep the EUT charging(7.5W) and keep the battery of the EUT in charging(Type-C port supply), while keep all output ports in discharging mode.
Pre-scan	33	Charge+Charging mode_Keep the EUT charging(10W) and keep the battery of the EUT in charging(Type-C port supply), while keep all output ports in discharging mode.
Final test	34	Charge+Charging mode_Keep the EUT charging(15W) and keep the battery of the EUT in charging(Type-C port supply), while keep all output ports in discharging mode.
Pre-scan	35	Charge+Charging mode_Keep the EUT charging(5W) and keep the battery of the EUT in charging(DC port supply), while keep all output ports in discharging mode.
Pre-scan	36	Charge+Charging mode_Keep the EUT charging(7.5W) and keep the battery of the EUT in charging(DC port supply), while keep all output ports in discharging mode.
Pre-scan	37	Charge+Charging mode_Keep the EUT charging(10W) and keep the battery of the EUT in charging(DC port supply), while keep all output ports in discharging mode.
Pre-scan	38	Charge+Charging mode_Keep the EUT charging(15W) and keep the battery of the EUT in charging(DC port supply), while keep all output ports in discharging mode.

7.3.3 Test Setup Diagram



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7.3.4 Measurement Procedure and Data

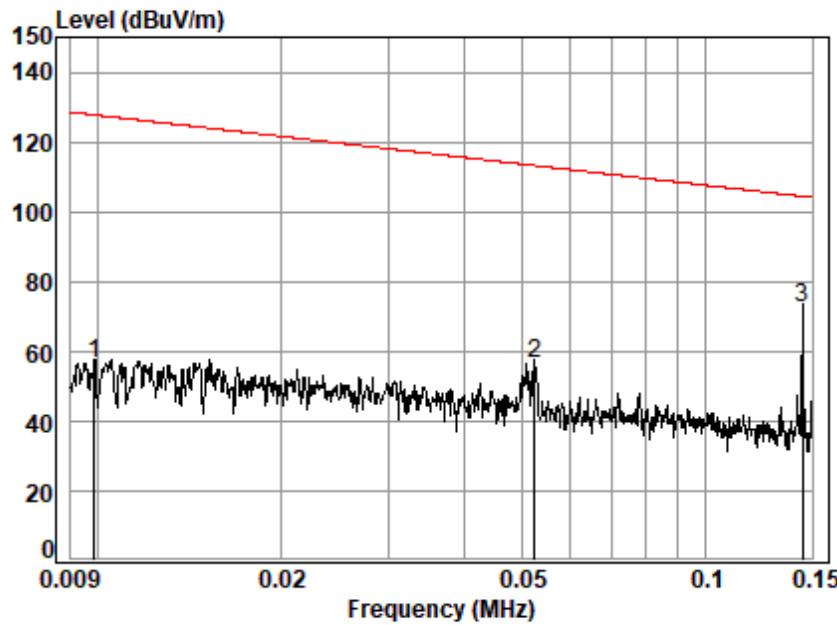
- a. All radiated emission measurements in terms of magnetic field strength shall be performed with a shielded loop antenna.
- b. For all radiated emission measurements in terms of magnetic field strength, the loop antenna were placed such that:
 - i. its centre shall be at 1.3 m height above the ground plane;
 - ii. the projection of its centre onto the ground plane shall be at the specified measurement distance from the projection on the ground plane of the closest point on the boundary of the equipment under test (EUT); and
 - iii. measurements shall be performed with the loop antenna placed vertically, in turn, in two polarizations (the measurement axis specified below is the line segment connecting the projections on the ground plane of the centre of the loop antenna and the centre of the EUT arrangement):
 - coaxial (loop plane perpendicular to the ground plane and to the measurement axis); and
 - coplanar (loop plane perpendicular to the ground plane and coplanar with the measurement axis).



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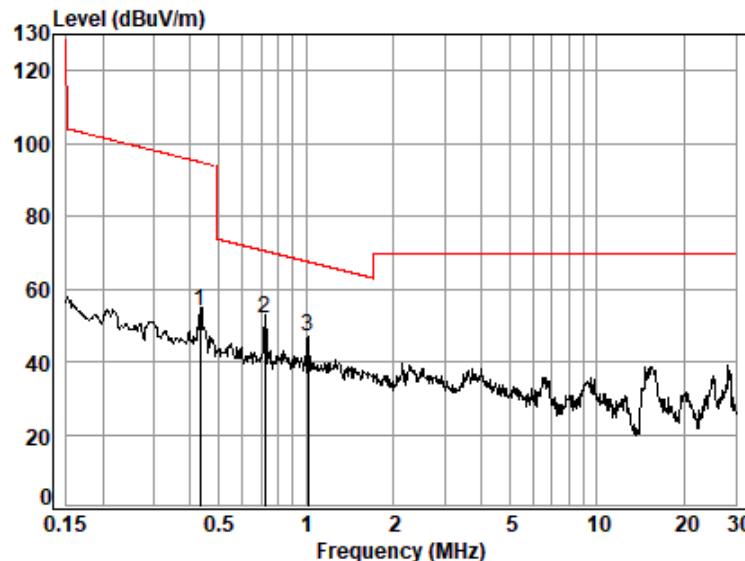
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
1	0.010	0.29	18.37	31.47	69.30	56.49	127.74	-71.25	Average
2	0.052	0.31	10.96	31.74	77.04	56.57	113.22	-56.65	Average
3 p	0.145	0.33	10.42	31.78	93.55	72.52	104.40	-31.88	Average

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Site : chamber
Condition: 3m HORIZONTAL
Job No. : 00016AT
Test Mode: 30

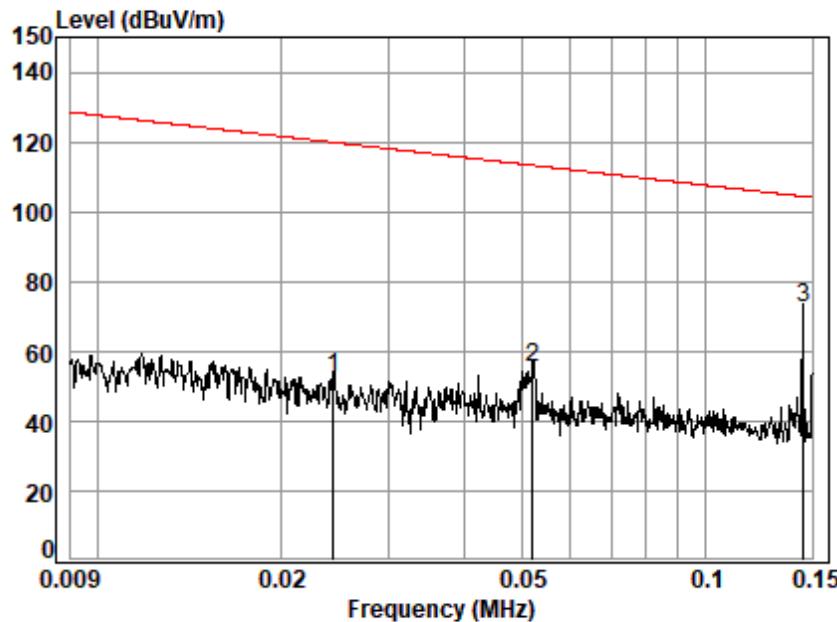
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit		Over Limit	Remark
					Level	Line		
1 a	0.4328	0.31	10.31	31.74	74.95	53.83	94.88	-41.05 Average
2 P	0.7236	0.28	10.29	31.71	72.89	51.75	70.41	-18.66 QP
3	1.0157	0.28	10.28	31.70	67.88	46.74	67.47	-20.73 QP



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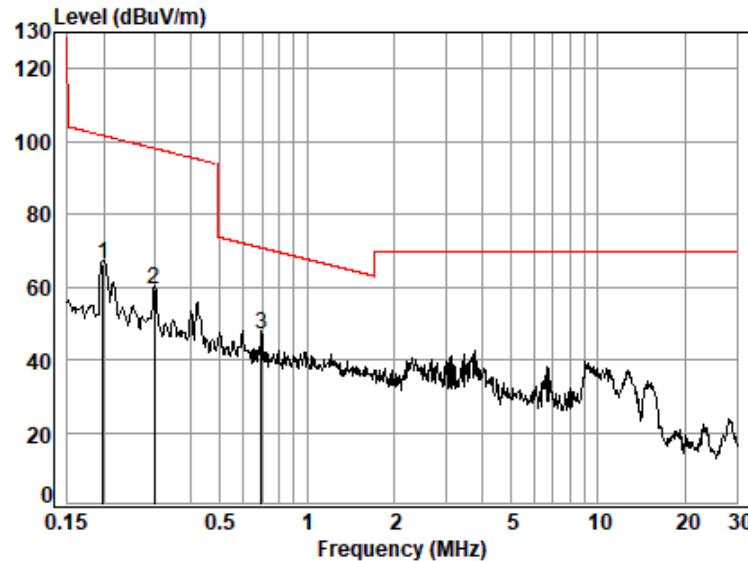
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Site : chamber
Condition: 3m HORIZONTAL
Job No. : 00016AT
Test Mode: 34

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	a	0.1986	0.31	10.37	31.77	87.42	66.33	101.64	-35.31 Average
2		0.2987	0.33	10.33	31.75	80.48	59.39	98.10	-38.71 Average
3	P	0.6973	0.29	10.29	31.72	67.98	46.84	70.74	-23.90 QP

Remark: Test was conducted in all two polarizations and the worst case coaxial was reported only.



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7.4 20dB Bandwidth

Test Requirement: 47 CFR Part 15, Subpart C 15.215
 Test Method: ANSI C63.10 (2013) Section 6.9.2
 Measurement Distance: 3m
 Limit: For report reference only

7.4.1 E.U.T. Operation

Operating Environment:
 Temperature: 23.7 °C Humidity: 56.2 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	07	Charge mode_Keep the EUT charging(5W)
Pre-scan	08	Charge mode_Keep the EUT charging(7.5W)
Pre-scan	09	Charge mode_Keep the EUT charging(10W)
Final test	10	Charge mode_Keep the EUT charging(15W)
Pre-scan	11	Charge+Charging mode_Keep the EUT charging(5W) and keep the battery of the EUT in charging(Adapter supply).
Pre-scan	12	Charge+Charging mode_Keep the EUT charging(7.5W) and keep the battery of the EUT in charging(Adapter supply).
Pre-scan	13	Charge+Charging mode_Keep the EUT charging(10W) and keep the battery of the EUT in charging(Adapter supply).
Pre-scan	14	Charge+Charging mode_Keep the EUT charging(15W) and keep the battery of the EUT in charging(Adapter supply).
Pre-scan	15	Charge+Charging mode_Keep the EUT charging(5W) and keep the battery of the EUT in charging(Type-C port supply).
Pre-scan	16	Charge+Charging mode_Keep the EUT charging(7.5W) and keep the battery of the EUT in charging(Type-C port supply).
Pre-scan	17	Charge+Charging mode_Keep the EUT charging(10W) and keep the battery of the EUT in charging(Type-C port supply).
Pre-scan	18	Charge+Charging mode_Keep the EUT charging(15W) and keep the battery of the EUT in charging(Type-C port supply).
Pre-scan	19	Charge+Charging mode_Keep the EUT charging(5W) and keep the battery of the EUT in charging(DC port supply).
Pre-scan	20	Charge+Charging mode_Keep the EUT charging(7.5W) and keep the battery of the EUT in charging(DC port supply).
Pre-scan	21	Charge+Charging mode_Keep the EUT charging(10W) and keep the battery of the EUT in charging(DC port supply).
Pre-scan	22	Charge+Charging mode_Keep the EUT charging(15W) and keep the battery of the EUT in charging(DC port supply).
Pre-scan	23	Charge+Discharging mode_Keep the EUT charging(5W) and keep all output ports in discharging mode.

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Pre-scan	24	Charge+Discharging mode_Keep the EUT charging(7.5W) and keep all output ports in discharging mode.
Pre-scan	25	Charge+Discharging mode_Keep the EUT charging(10W) and keep all output ports in discharging mode.
Pre-scan	26	Charge+Discharging mode_Keep the EUT charging(15W) and keep all output ports in discharging mode.
Pre-scan	27	Charge+Charging mode_Keep the EUT charging(5W) and keep the battery of the EUT in charging(Adapter supply), while keep all output ports in discharging mode.
Pre-scan	28	Charge+Charging mode_Keep the EUT charging(7.5W) and keep the battery of the EUT in charging(Adapter supply), while keep all output ports in discharging mode.
Pre-scan	29	Charge+Charging mode_Keep the EUT charging(10W) and keep the battery of the EUT in charging(Adapter supply), while keep all output ports in discharging mode.
Pre-scan	30	Charge+Charging mode_Keep the EUT charging(15W) and keep the battery of the EUT in charging(Adapter supply), while keep all output ports in discharging mode.
Pre-scan	31	Charge+Charging mode_Keep the EUT charging(5W) and keep the battery of the EUT in charging(Type-C port supply), while keep all output ports in discharging mode.
Pre-scan	32	Charge+Charging mode_Keep the EUT charging(7.5W) and keep the battery of the EUT in charging(Type-C port supply), while keep all output ports in discharging mode.
Pre-scan	33	Charge+Charging mode_Keep the EUT charging(10W) and keep the battery of the EUT in charging(Type-C port supply), while keep all output ports in discharging mode.
Pre-scan	34	Charge+Charging mode_Keep the EUT charging(15W) and keep the battery of the EUT in charging(Type-C port supply), while keep all output ports in discharging mode.
Pre-scan	35	Charge+Charging mode_Keep the EUT charging(5W) and keep the battery of the EUT in charging(DC port supply), while keep all output ports in discharging mode.
Pre-scan	36	Charge+Charging mode_Keep the EUT charging(7.5W) and keep the battery of the EUT in charging(DC port supply), while keep all output ports in discharging mode.
Pre-scan	37	Charge+Charging mode_Keep the EUT charging(10W) and keep the battery of the EUT in charging(DC port supply), while keep all output ports in discharging mode.
Pre-scan	38	Charge+Charging mode_Keep the EUT charging(15W) and keep the battery of the EUT in charging(DC port supply), while keep all output ports in discharging mode.

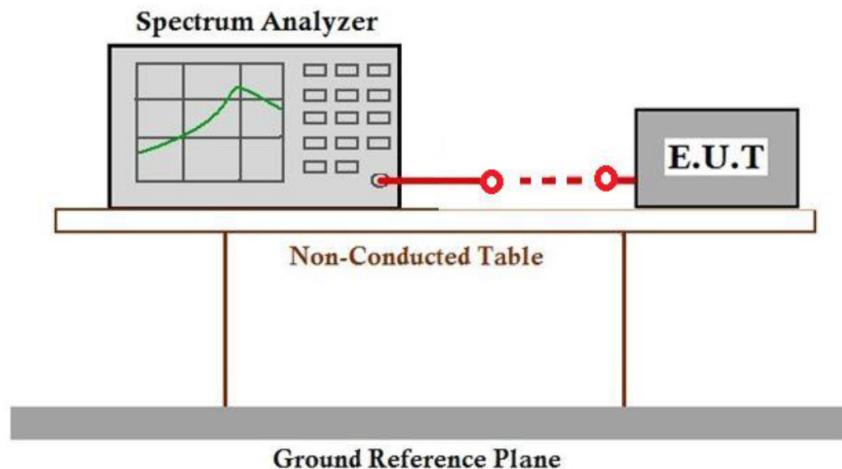
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7.4.3 Test Setup Diagram



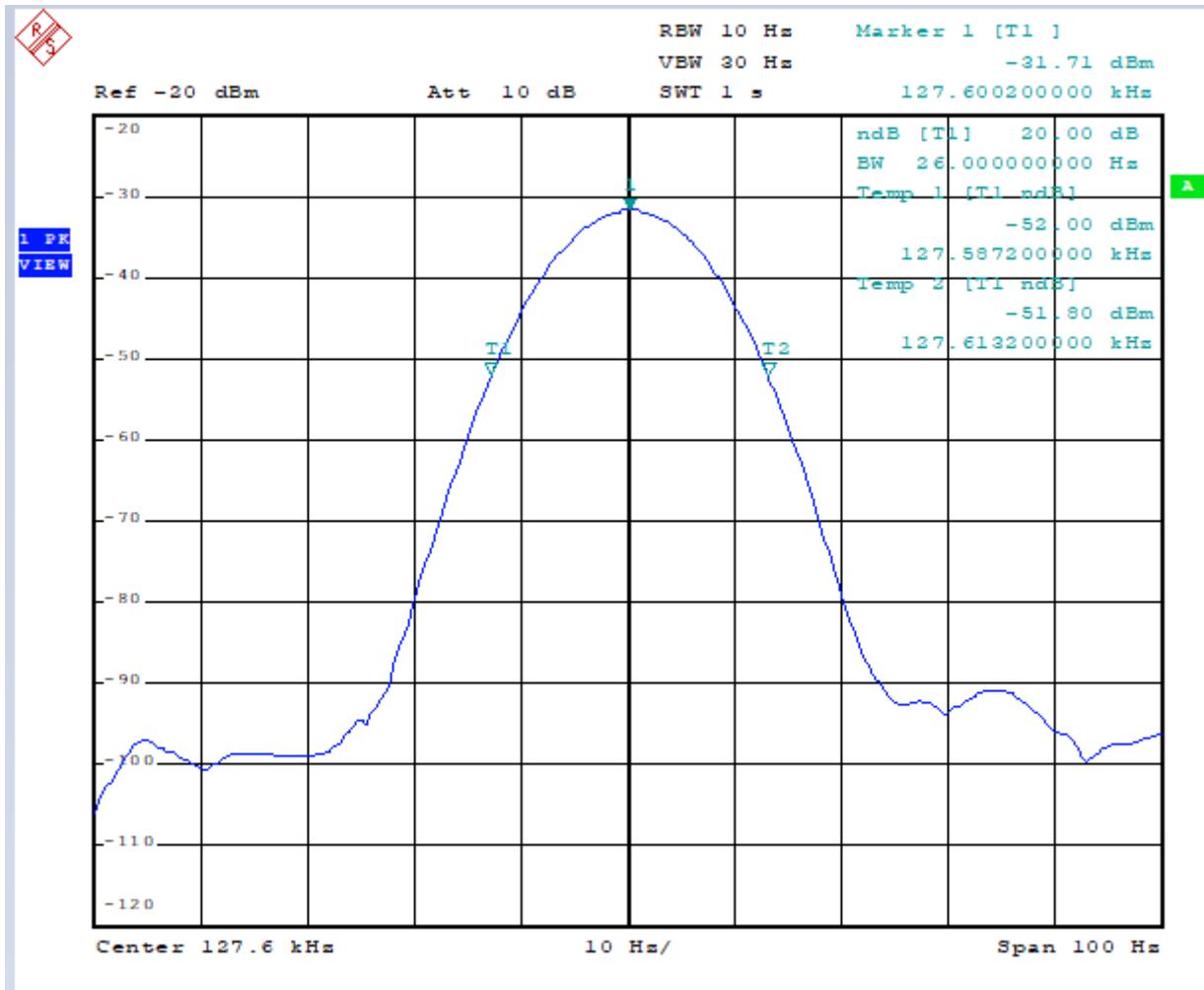
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7.4.4 Measurement Procedure and Data

Test Frequency(KHz)	20dB bandwidth (KHz)	Limit (KHz)	Results
127.6	0.026	N/A	Pass



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7.5 Restricted Bands

Test Requirement	47 CFR Part 15, Subpart C 15.205
Test Method:	ANSI C63.10 (2013) Section 6.10.5
Limit:	The fundamental wave could not fall in the restricted band 90KHz-110KHz

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 55.9 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	07	Charge mode_Keep the EUT charging(5W)
Pre-scan	08	Charge mode_Keep the EUT charging(7.5W)
Pre-scan	09	Charge mode_Keep the EUT charging(10W)
Final test	10	Charge mode_Keep the EUT charging(15W)
Pre-scan	11	Charge+Charging mode_Keep the EUT charging(5W) and keep the battery of the EUT in charging(Adapter supply).
Pre-scan	12	Charge+Charging mode_Keep the EUT charging(7.5W) and keep the battery of the EUT in charging(Adapter supply).
Pre-scan	13	Charge+Charging mode_Keep the EUT charging(10W) and keep the battery of the EUT in charging(Adapter supply).
Pre-scan	14	Charge+Charging mode_Keep the EUT charging(15W) and keep the battery of the EUT in charging(Adapter supply).
Pre-scan	15	Charge+Charging mode_Keep the EUT charging(5W) and keep the battery of the EUT in charging(Type-C port supply).
Pre-scan	16	Charge+Charging mode_Keep the EUT charging(7.5W) and keep the battery of the EUT in charging(Type-C port supply).
Pre-scan	17	Charge+Charging mode_Keep the EUT charging(10W) and keep the battery of the EUT in charging(Type-C port supply).
Pre-scan	18	Charge+Charging mode_Keep the EUT charging(15W) and keep the battery of the EUT in charging(Type-C port supply).
Pre-scan	19	Charge+Charging mode_Keep the EUT charging(5W) and keep the battery of the EUT in charging(DC port supply).
Pre-scan	20	Charge+Charging mode_Keep the EUT charging(7.5W) and keep the battery of the EUT in charging(DC port supply).
Pre-scan	21	Charge+Charging mode_Keep the EUT charging(10W) and keep the battery of the EUT in charging(DC port supply).
Pre-scan	22	Charge+Charging mode_Keep the EUT charging(15W) and keep the battery of the EUT in charging(DC port supply).
Pre-scan	23	Charge+Discharging mode_Keep the EUT charging(5W) and keep all output ports in discharging mode.
Pre-scan	24	Charge+Discharging mode_Keep the EUT charging(7.5W) and keep all output ports

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		in discharging mode.
Pre-scan	25	Charge+Discharging mode_Keep the EUT charging(10W) and keep all output ports in discharging mode.
Pre-scan	26	Charge+Discharging mode_Keep the EUT charging(15W) and keep all output ports in discharging mode.
Pre-scan	27	Charge+Charging mode_Keep the EUT charging(5W) and keep the battery of the EUT in charging(Adapter supply), while keep all output ports in discharging mode.
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Pre-scan	38	Charge+Charging mode_Keep the EUT charging(15W) and keep the battery of the EUT in charging(DC port supply), while keep all output ports in discharging mode.

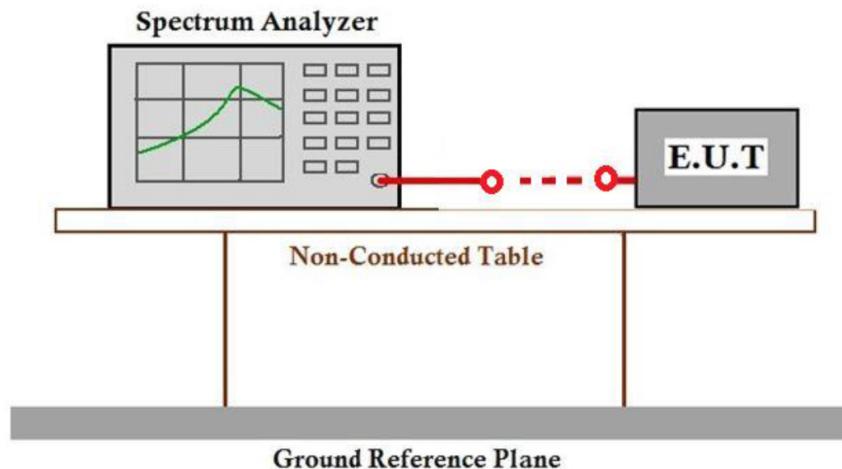
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7.5.3 Test Setup Diagram



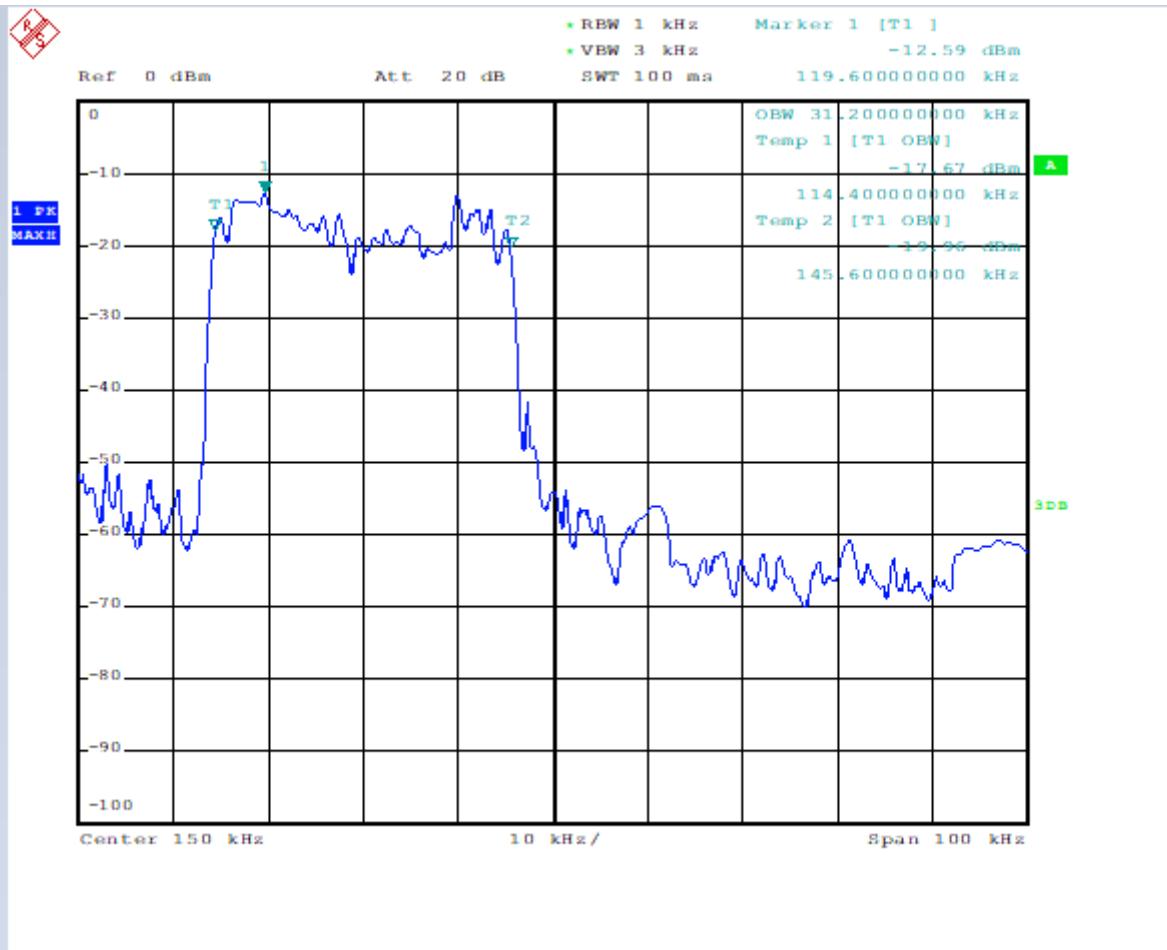
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7.5.4 Measurement Procedure and Data



According to the test data above, the fundamental wave is not fall in the restricted band 90kHz-110kHz, the field strength also meet the 15.209 requirement, so this test is Pass.

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8 Test Setup Photo

Refer to test setup photos for FYFR2203000016AT.

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for FYFR2203000016AT.

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