

TEST REPORT

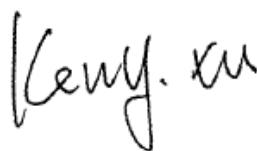
Application No.: SZCR2311003681AT
Applicant: Traxxas LP
Address of Applicant: 6250 Traxxas Way McKinney Texas 75070 United States
Manufacturer: Traxxas LP
Address of Manufacturer: 6250 Traxxas Way McKinney Texas 75070 United States
Factory: Kunshan Hi-Fortune Health Products Co., Ltd
Address of Factory: No.625 Juxiang Road, Zhangpu Town, Kunshan City, Suzhou City, Jiangsu Province, China

Equipment Under Test (EUT):

EUT Name: 4-amp USB-C NiMH/LiPo Charger
Model No.: 2985
Trade Mark: Traxxas
FCC ID: XVE-TRX1042
Standard(s) : 47 CFR Part 15, Subpart C 15.225
Date of Receipt: 2023-11-15
Date of Test: 2023-11-16 to 2023-11-22
Date of Issue: 2023-11-27

Test Result:	Pass*
---------------------	--------------

* In the configuration tested, the EUT complied with the standards specified above.



Keny Xu
EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing Center CE Laboratory.

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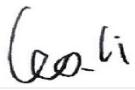
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100368102

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023-11-27		Original

Authorized for issue by:			
		Leo Li/Project Engineer	
		Eric Fu/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 15.225	N/A	47 CFR Part 15, Subpart C 15.203	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.225	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
20dB Bandwidth		ANSI C63.10 (2013) Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass
Emission Mask		ANSI C63.10 (2013) Section 6.4	47 CFR Part 15, Subpart C 15.225(a)&(b)&(C)	Pass
Radiated Emissions (9kHz-30MHz)		ANSI C63.10 (2013) Section 6.4&6.5	47 CFR Part 15, Subpart C 15.225(d) & 15.209	Pass
Radiated Emissions (30MHz-1GHz)		ANSI C63.10 (2013) Section 6.4&6.5	47 CFR Part 15, Subpart C 15.225(d) & 15.209	Pass

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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 20V from adapter input AC 120V/60Hz Output: DC 20V/2.25A
Operation Frequency:	13.56MHz
Modulation Type:	ASK
Antenna Type:	Loop Antenna

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	XIAOMI	MDY-12-ED	REF. No.SEA05P06G
Type-C Cable	SGS	N/A	REF. No.SEA07D01D
LITHUM Battery	Traxxas	2587X	Client supply
NIMH Battery	Traxxas	2923X	Client supply

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at Mains Terminals (150kHz-30MHz)	± 3.1dB
20dB Bandwidth	± 3%
Emission Mask	± 4.5dB (Below 1GHz)
Radiated Emissions (9kHz-30MHz)	± 3.6dB
Radiated Emissions (30MHz-1GHz)	± 6.0dB for 3m; ± 5.0dB for 10m

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{cispr/ETSI}$ (CISPR/ETSI Uncertainty), so the test results
– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
– non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

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4.4 Test Location

All tests were performed at:

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No tests were sub-contracted.

4.5 Test Facility

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

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI (Member No. 1937)**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd.

Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1336**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

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

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2023-03-20	2024-03-19
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2023-07-07	2024-07-06
LISN	Rohde&Schwarz	ENV216	SEM007-01	2023-09-19	2024-09-18
LISN	ETS-LINDGREN	3816/2	SEM007-02	2023-03-20	2024-03-19

20dB Bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Zhao Xin	PS-305D	SEM011-13	2023-09-20	2024-09-19
Spectrum Analyzer	Rohde & Schwarz	FSP30	SEM004-06	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30

Emission Mask					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2021-03-27	2024-03-26
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2023-10-19	2024-10-18
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2023-09-23	2025-09-22
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2023-03-31	2024-03-30
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2021-11-30	2023-11-29
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2023-07-07	2024-07-06

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Radiated Emissions (9kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2021-03-27	2024-03-26
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2023-10-19	2024-10-18
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2023-09-23	2025-09-22
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2023-03-31	2024-03-30
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2021-11-30	2023-11-29
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2023-07-07	2024-07-06

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2023-10-19	2024-10-18
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2023-03-20	2024-03-19
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2023-07-07	2024-07-06

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2023-07-28	2024-07-27
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2023-07-28	2024-07-27
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2023-03-23	2024-03-22

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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 uses a unique coupling to the intentional radiator, 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.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

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

Antenna location: Refer to internal photo.



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7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency range (MHz)	Limit (dBuV)	
	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

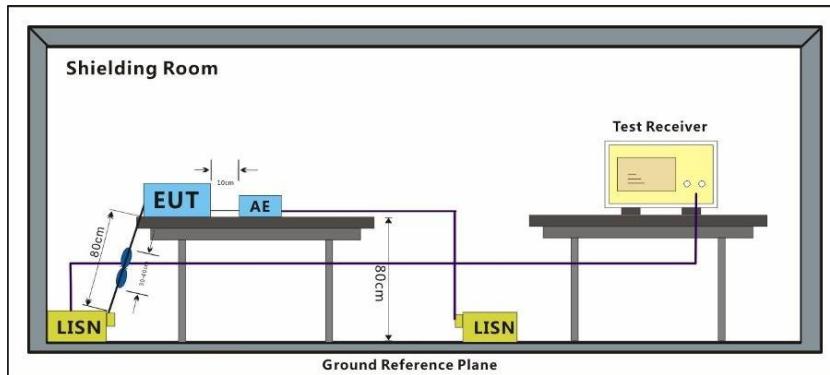
Operating Environment:

Temperature: 23.4 °C Humidity: 47.3 % RH Atmospheric Pressure: 1000 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in continuously transmitting 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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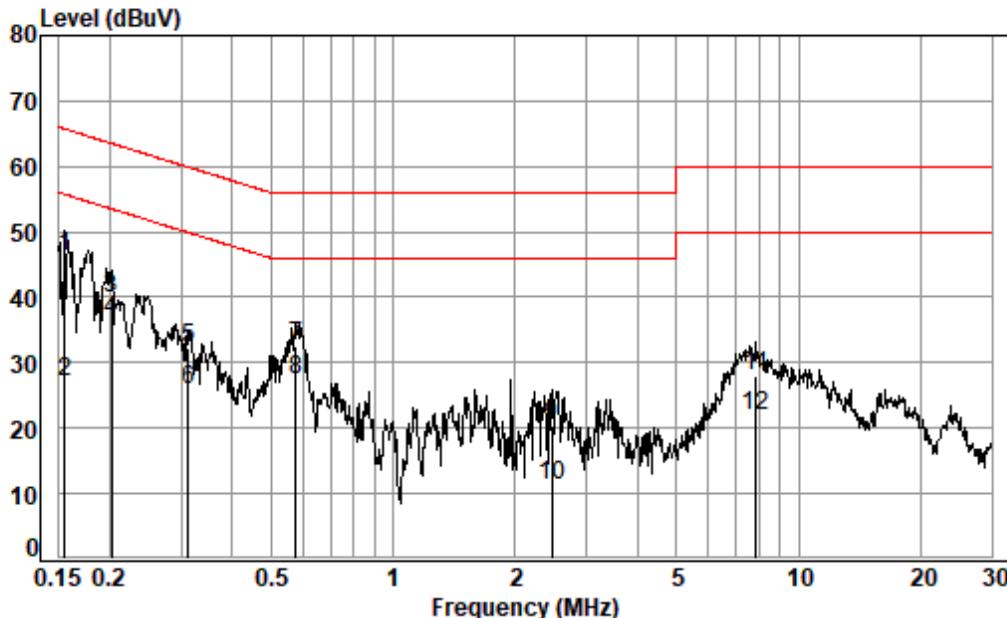
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Test Mode: 01; Line: Live line



Site : Shielding Room

Condition: Line

Job No. : 03681AT

Test mode: 01

: NIMH

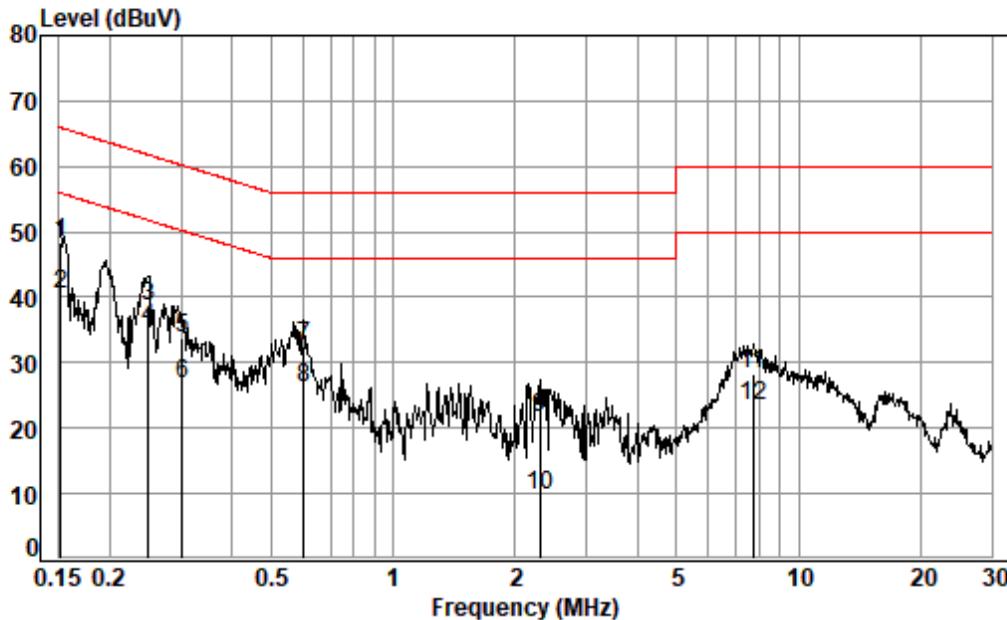
Freq	Cable Loss	LISN Factor	Read Level	Level	Limit		Over Limit	Remark
					Line	dBuV		
1 *	0.155	0.02	11.13	34.97	46.12	65.74	-19.62	QP
2	0.155	0.02	11.13	15.87	27.02	55.74	-28.72	Average
3	0.202	0.02	10.74	29.13	39.89	63.54	-23.65	QP
4 *	0.202	0.02	10.74	25.66	36.42	53.54	-17.12	Average
5	0.313	0.03	10.77	21.37	32.17	59.88	-27.71	QP
6	0.313	0.03	10.77	15.07	25.87	49.88	-24.01	Average
7	0.576	0.04	10.83	21.61	32.48	56.00	-23.52	QP
8	0.576	0.04	10.83	16.49	27.36	46.00	-18.64	Average
9	2.461	0.07	10.70	9.48	20.25	56.00	-35.75	QP
10	2.461	0.07	10.70	0.45	11.22	46.00	-34.78	Average
11	7.852	0.14	11.12	16.72	27.98	60.00	-32.02	QP
12	7.852	0.14	11.12	10.79	22.05	50.00	-27.95	Average

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Test Mode: 01; Line: Live line



Site : Shielding Room

Condition: Line

Job No. : 03681AT

Test mode: 01

: LITHIUM

Freq	Cable Loss	LISN Factor	Read Level	Level	Limit	Over Limit	Remark
					Line	dB	
MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.152	0.02	11.16	37.16	48.34	65.91	-17.57 QP
2 *	0.152	0.02	11.16	29.24	40.42	55.91	-15.49 Average
3	0.249	0.03	10.76	27.85	38.64	61.78	-23.14 QP
4	0.249	0.03	10.76	24.39	35.18	51.78	-16.60 Average
5	0.302	0.03	10.77	22.84	33.64	60.19	-26.55 QP
6	0.302	0.03	10.77	16.10	26.90	50.19	-23.29 Average
7	0.601	0.04	10.85	21.62	32.51	56.00	-23.49 QP
8	0.601	0.04	10.85	15.42	26.31	46.00	-19.69 Average
9	2.309	0.07	10.65	10.76	21.48	56.00	-34.52 QP
10	2.309	0.07	10.65	-1.09	9.63	46.00	-36.37 Average
11	7.728	0.13	11.13	17.14	28.40	60.00	-31.60 QP
12	7.728	0.13	11.13	12.14	23.40	50.00	-26.60 Average

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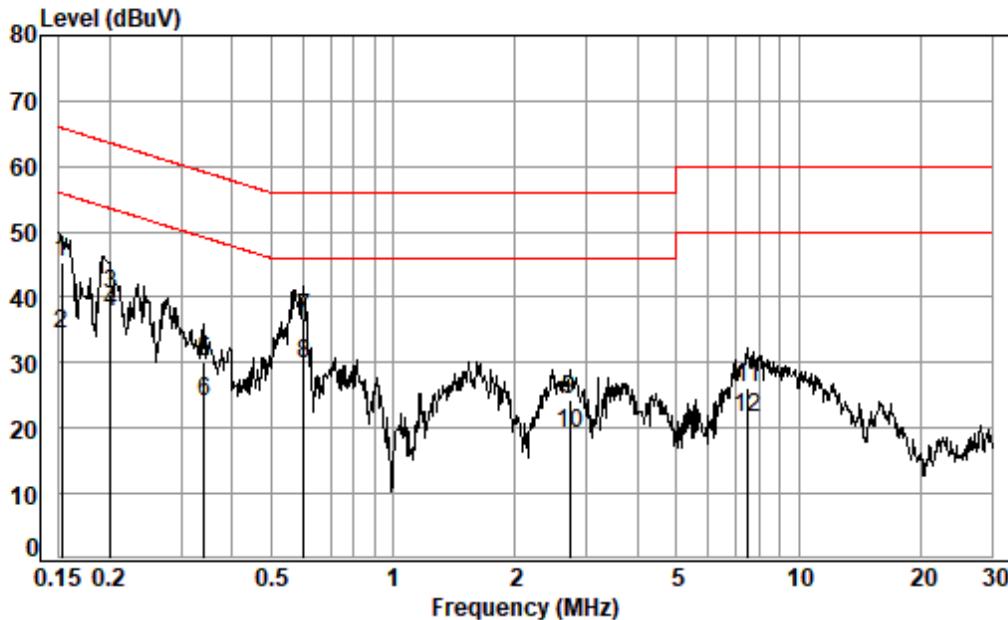
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Test Mode: 01; Line: Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 03681AT

Test mode: 01

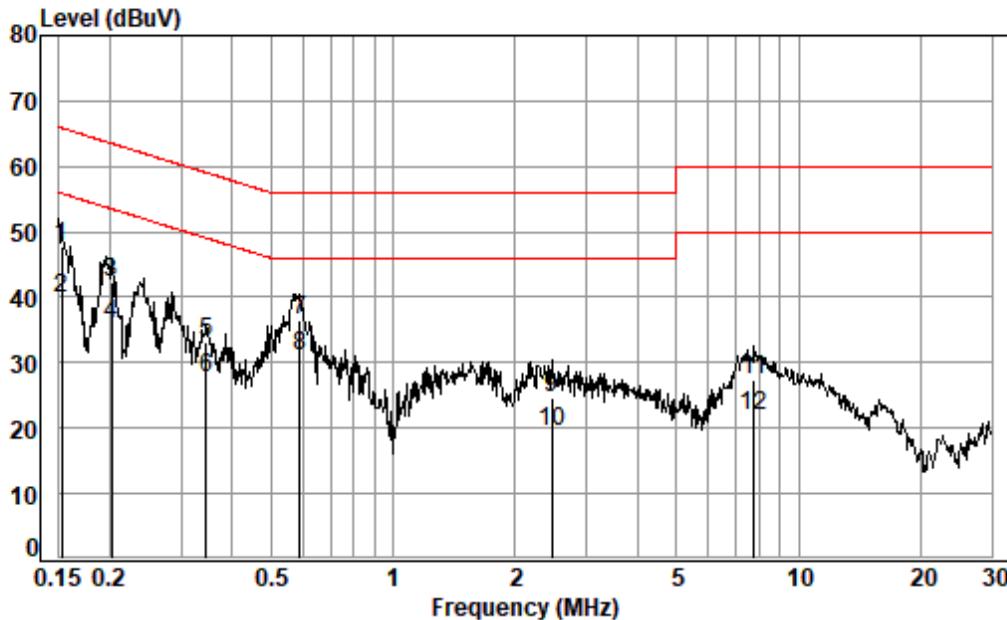
: NIMH

Freq	Cable	LISN	Read	Limit	Over	Remark
	Loss	Factor	Level	Level	Line	
	MHz	dB	dB	dBuV	dBuV	dB
1	0.152	0.02	10.83	34.50	45.35	65.87 -20.52 QP
2	0.152	0.02	10.83	23.38	34.23	55.87 -21.64 Average
3	0.201	0.02	10.83	29.67	40.52	63.58 -23.06 QP
4 *	0.201	0.02	10.83	26.74	37.59	53.58 -15.99 Average
5	0.343	0.03	10.59	19.46	30.08	59.13 -29.05 QP
6	0.343	0.03	10.59	13.35	23.97	49.13 -25.16 Average
7 *	0.601	0.04	10.53	26.36	36.93	56.00 -19.07 QP
8	0.601	0.04	10.53	19.20	29.77	46.00 -16.23 Average
9	2.721	0.07	10.80	13.50	24.37	56.00 -31.63 QP
10	2.721	0.07	10.80	8.24	19.11	46.00 -26.89 Average
11	7.526	0.13	11.01	15.05	26.19	60.00 -33.81 QP
12	7.526	0.13	11.01	10.35	21.49	50.00 -28.51 Average

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Test Mode: 01; Line: Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 03681AT

Test mode: 01

: LITHIUM

Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Over
							dB
MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.152	0.02	10.83	37.03	47.88	65.87	-17.99 QP
2	0.152	0.02	10.83	29.06	39.91	55.87	-15.96 Average
3	0.202	0.02	10.83	31.36	42.21	63.54	-21.33 QP
4	0.202	0.02	10.83	25.13	35.98	53.54	-17.56 Average
5	0.346	0.03	10.58	22.46	33.07	59.05	-25.98 QP
6	0.346	0.03	10.58	16.98	27.59	49.05	-21.46 Average
7	0.589	0.04	10.50	26.06	36.60	56.00	-19.40 QP
8 *	0.589	0.04	10.50	20.60	31.14	46.00	-14.86 Average
9	2.461	0.07	10.86	13.79	24.72	56.00	-31.28 QP
10	2.461	0.07	10.86	8.47	19.40	46.00	-26.60 Average
11	7.769	0.13	10.97	16.28	27.38	60.00	-32.62 QP
12	7.769	0.13	10.97	10.72	21.82	50.00	-28.18 Average

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7.2 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215

Test Method: ANSI C63.10 (2013) Section 6.9

7.2.1 E.U.T. Operation

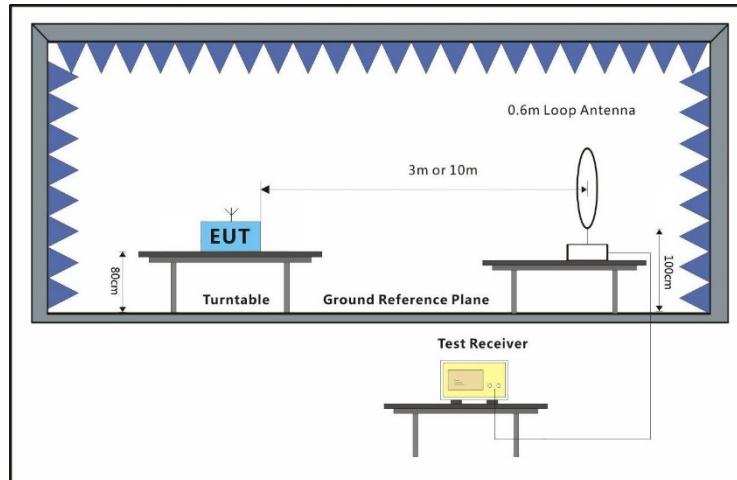
Operating Environment:

Temperature: 23.6 °C Humidity: 52.3 % RH Atmospheric Pressure: 1000 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in continuously transmitting mode.

7.2.3 Test Setup Diagram



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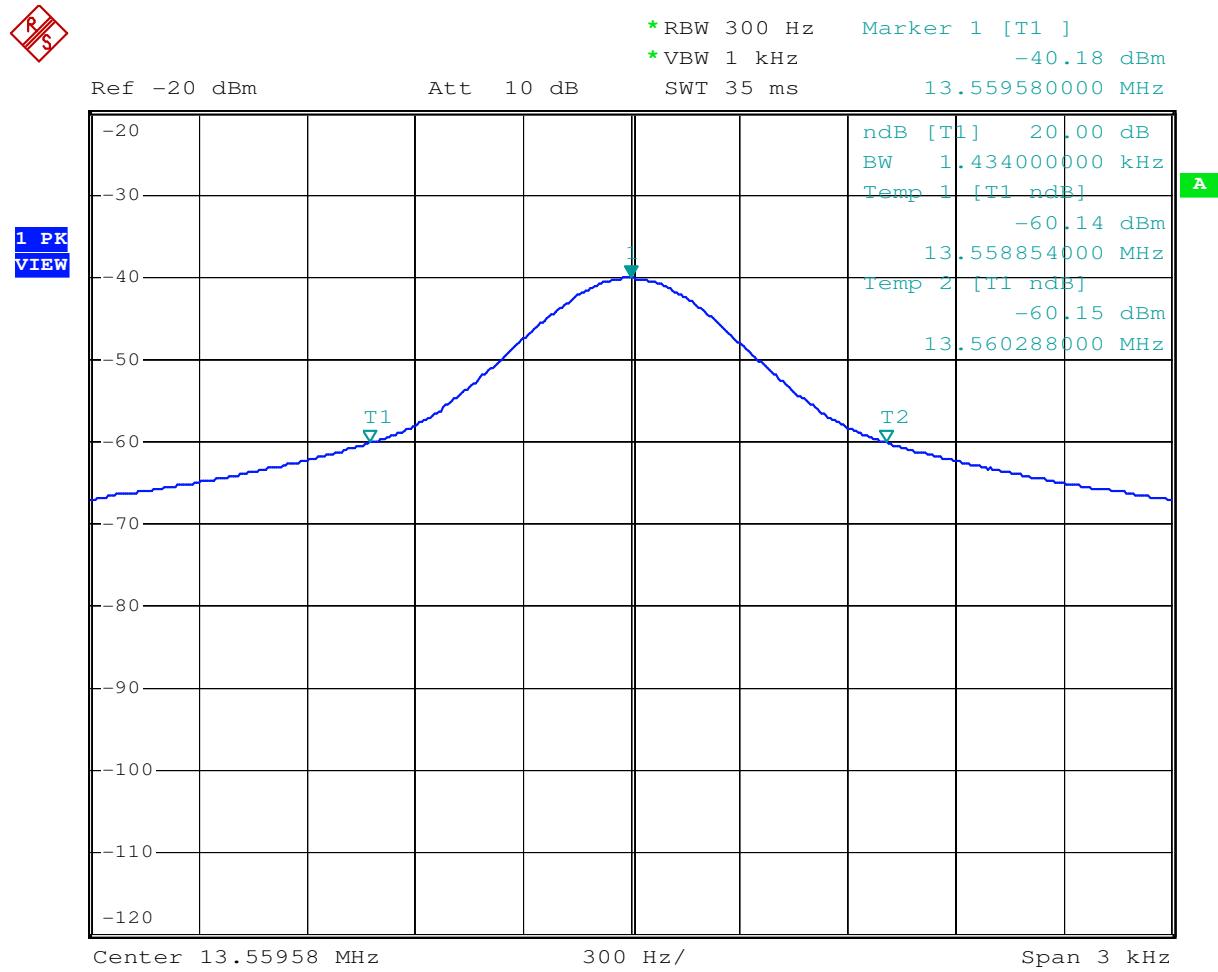
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7.2.4 Measurement Procedure and Data

The useful radiated emission from the EUT was detected by the spectrum analyser with peak detector.



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7.3 Emission Mask

Test Requirement 47 CFR Part 15, Subpart C 15.225(a)&(b)&(C)

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

Measurement Distance: 3m

Limit:

- (a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.
- (b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.
- (c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.
- (d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.

Below 30MHz

The limit at 30m test distance is below:

$$FS_{\text{limit}} = FS_{\text{max}} - 40 \log\left(\frac{d_{\text{limit}}}{d_{\text{measure}}}\right)$$

where

- FS_{limit} is the calculation of field strength at the limit distance, expressed in dB μ V/m
 FS_{max} is the measured field strength, expressed in dB μ V/m
 d_{measure} is the distance of the measurement point from the EUT
 d_{limit} is the reference distance or the distance of the $\lambda/2\pi$ point

The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 84dB μ V/m at 30 meters.



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7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C

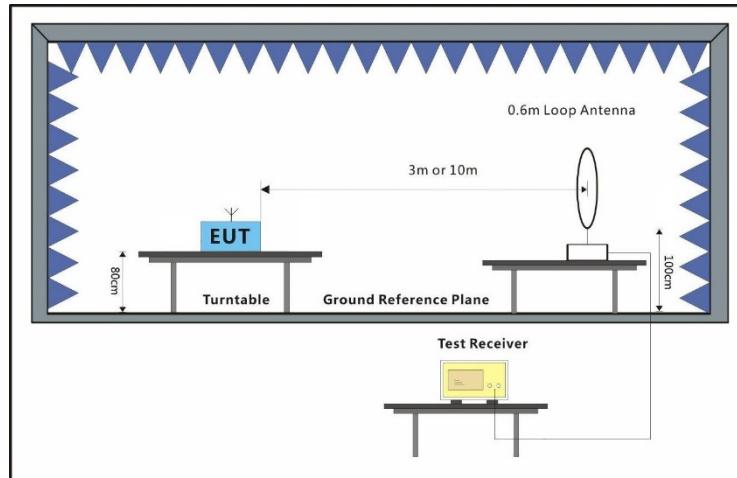
Humidity: 51.5 % RH

Atmospheric Pressure: 1000 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in continuously transmitting mode.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

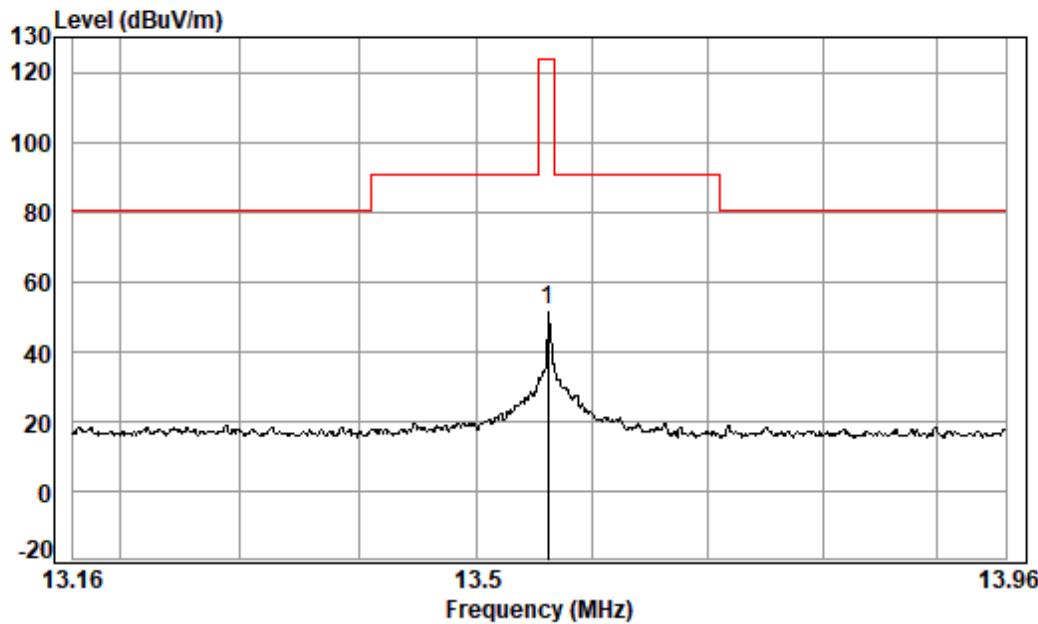
For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst position of vertical was shown in the report.

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**Condition:** 3m**Job No. :** 03681AT**Test Mode:** 01

Freq	Read	Ant	Cable	Preamp	Limit	Over	Remark	
	MHz	Level	Factor	Loss				
	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 pp	13.561	74.81	8.65	1.13	32.50	52.09	124.00	-71.91 QP



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7.4 Radiated Emissions (9kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.225(d) & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4&6.5

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength (microvolts/meter)	Limit (dBuV/m)	Detector	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	-	-	300
0.490-1.705	24000/F(kHz)	-	-	30
1.705-30	30	-	-	30

Below 30MHz

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.

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor



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检验检测专用章 Inspection & Testing Services

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$$FS_{\text{limit}} = FS_{\text{max}} - 40 \log \left(\frac{d_{\text{limit}}}{d_{\text{measure}}} \right)$$

where

- FS_{limit} is the calculation of field strength at the limit distance, expressed in dB μ V/m
 FS_{max} is the measured field strength, expressed in dB μ V/m
 d_{measure} is the distance of the measurement point from the EUT
 d_{limit} is the reference distance or the distance of the $\lambda/2\pi$ point

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 51.5 % RH Atmospheric Pressure: 1000 mbar

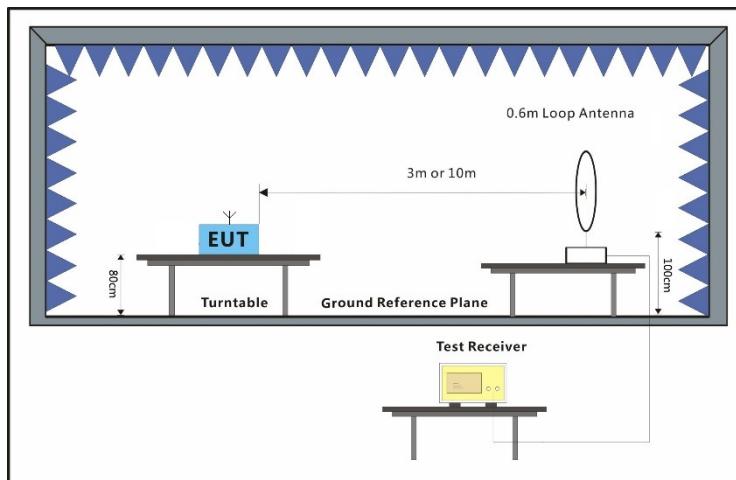
7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in continuously transmitting mode.



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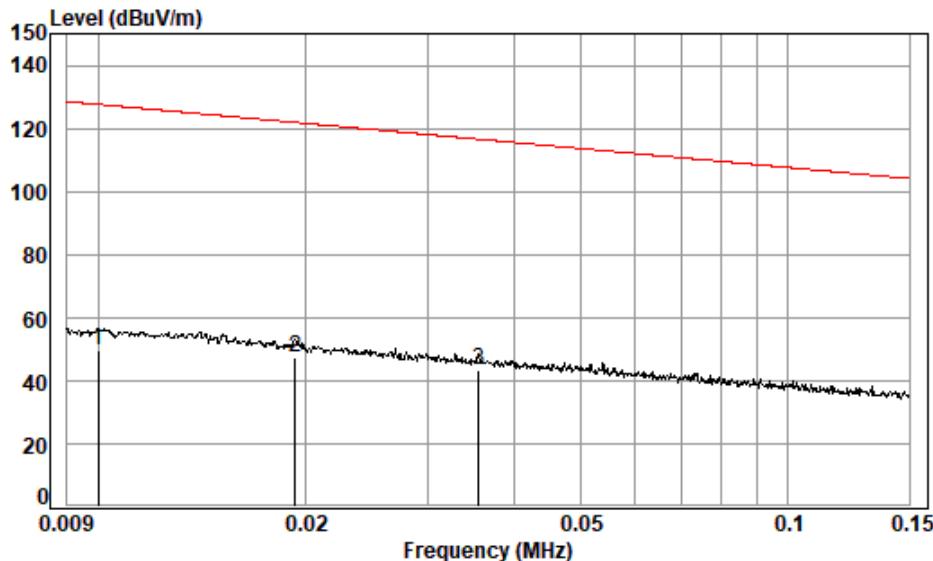
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7.4.3 Test Setup Diagram**7.4.4 Measurement Procedure and Data**

For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst position of vertical was shown in the report.

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Condition: 3m

Job No. : 03681AT

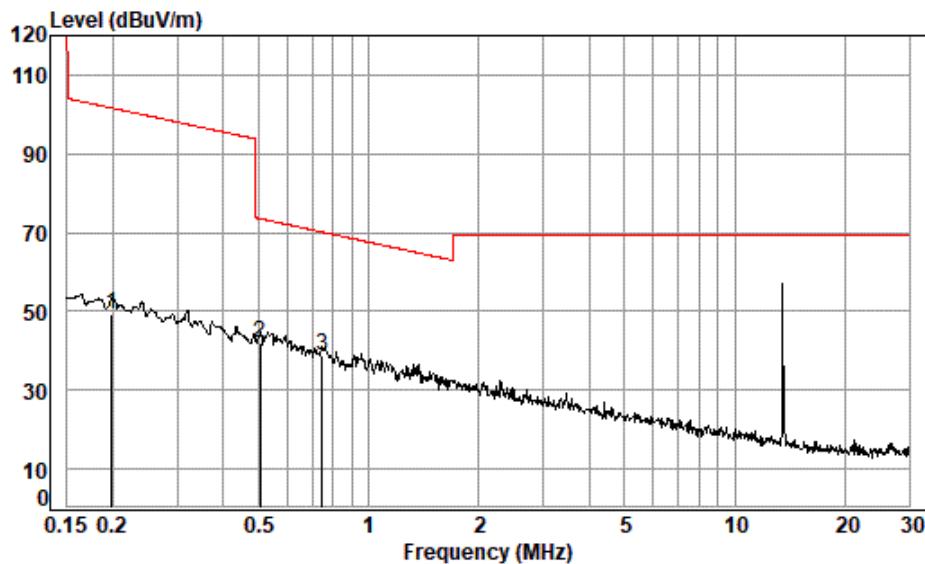
Test Mode: 01

Freq	Read	Ant	Cable	Preamp	Limit	Over	Remark
	Level	Factor	Loss	Factor			
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	0.010	62.15	18.28	0.31	31.37	49.37	127.60 -78.23 Average
2	0.019	64.93	13.97	0.31	32.01	47.20	121.88 -74.68 Average
3 pp	0.036	63.56	11.67	0.30	32.41	43.12	116.56 -73.44 Average



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Condition: 3m

Job No. : 03681AT

Test Mode: 01

Freq	Read	Ant	Cable	Preamp	Limit	Over	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB
1	0.199	71.19	10.37	0.30	32.50	49.36	101.64 -52.28 Average
2 av	0.505	63.75	10.31	0.35	32.50	41.91	73.54 -31.63 Average
3 pp	0.747	60.75	10.29	0.38	32.50	38.92	70.11 -31.19 QP

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7.5 Radiated Emissions (30MHz-1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.225(d) & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4&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 except for the frequency bands above 1000 MHz. 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.

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C

Humidity: 45.8 % RH

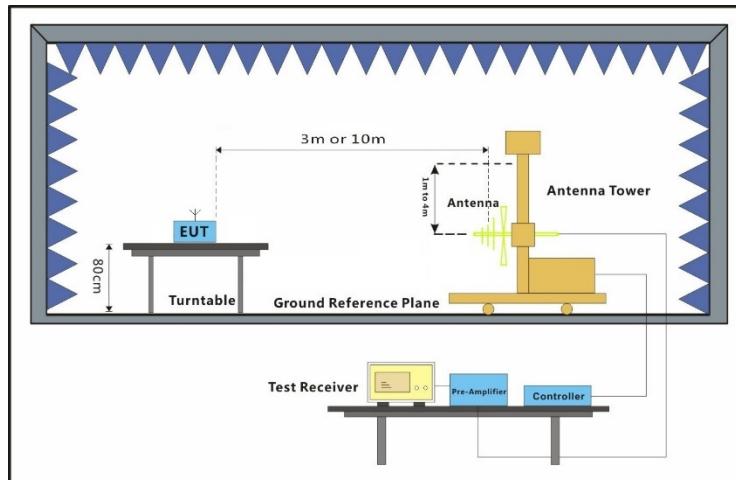
Atmospheric Pressure: 1000 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in continuously transmitting mode.

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7.5.3 Test Setup Diagram**7.5.4 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 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 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. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report. Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

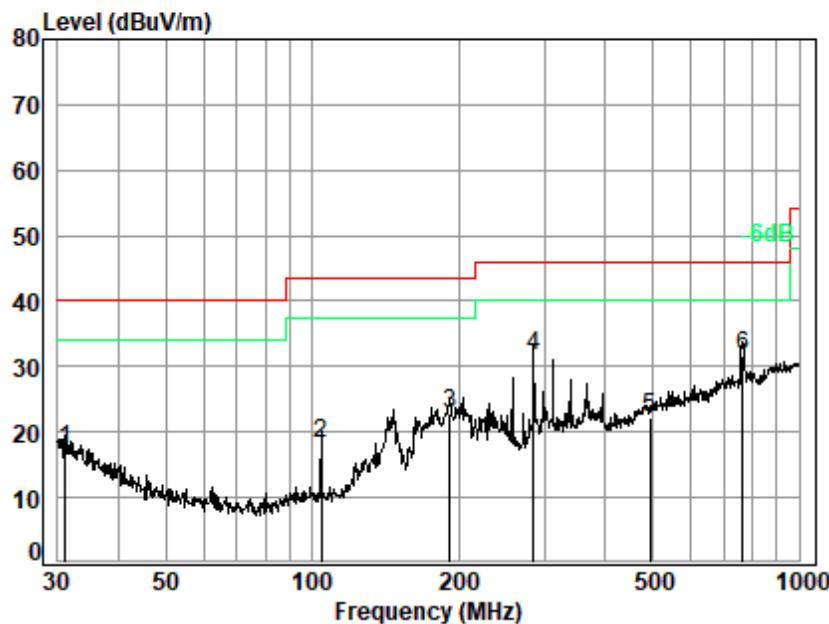


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Test Mode: 01; Polarity: Horizontal



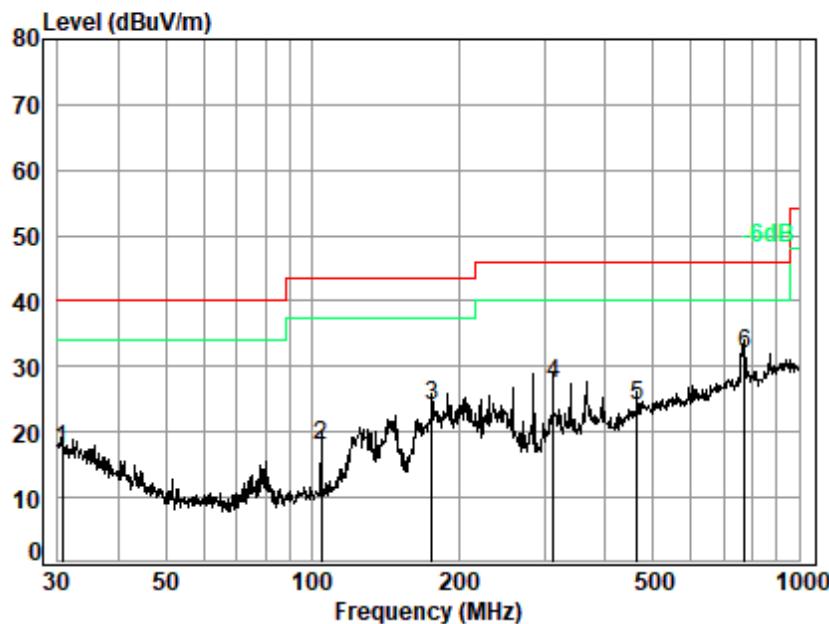
Site : chamber
 Condition: 3m HORIZONTAL
 Job No. : 03681AT
 Test Mode: 01
 : NIMH

Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dBuV			
	MHz	dB/m		dB	dBuV	dBuV/m	dB	
1	31.071	20.70	0.65	27.80	23.89	17.44	40.00	-22.56 QP
2	104.170	12.23	1.21	27.59	32.35	18.20	43.50	-25.30 QP
3	191.745	14.26	1.69	27.28	34.18	22.85	43.50	-20.65 QP
4	284.977	16.90	2.10	26.94	39.52	31.58	46.00	-14.42 QP
5	494.199	22.82	2.87	27.76	24.20	22.13	46.00	-23.87 QP
6 q	766.057	26.54	3.72	27.72	29.17	31.71	46.00	-14.29 QP

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Test Mode: 01; Polarity: Horizontal



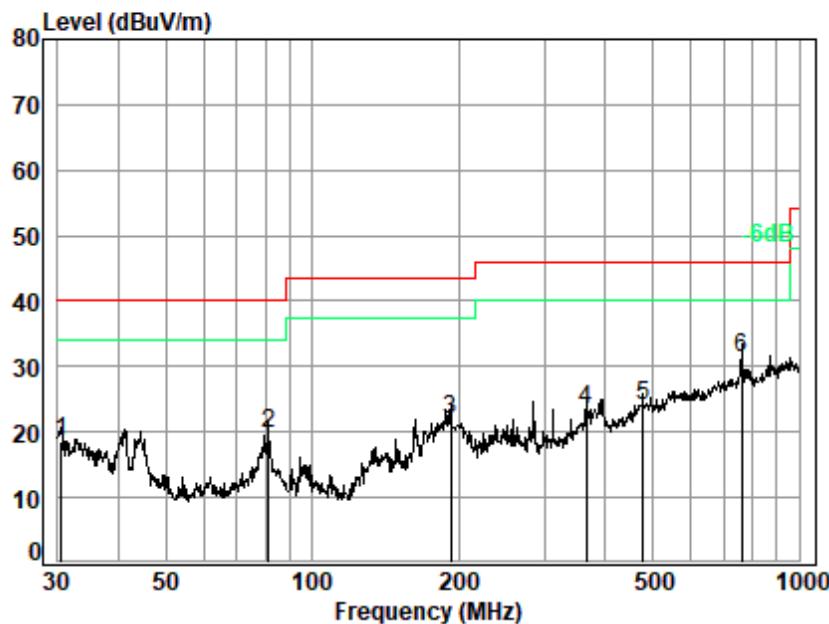
Site : chamber
Condition: 3m HORIZONTAL
Job No. : 03681AT
Test Mode: 01
: LITHIUM

Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dBuV			
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.638	20.90	0.65	27.80	23.54	17.29	40.00	-22.71 QP
2	104.170	12.23	1.21	27.59	32.12	17.97	43.50	-25.53 QP
3	176.269	13.87	1.60	27.34	35.84	23.97	43.50	-19.53 QP
4	312.179	18.38	2.22	26.94	33.60	27.26	46.00	-18.74 QP
5	465.599	21.83	2.77	27.63	27.16	24.13	46.00	-21.87 QP
6 q	771.449	26.76	3.74	27.70	29.29	32.09	46.00	-13.91 QP

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Test Mode: 01; Polarity: Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No. : 03681AT
 Test Mode: 01
 : NIMH

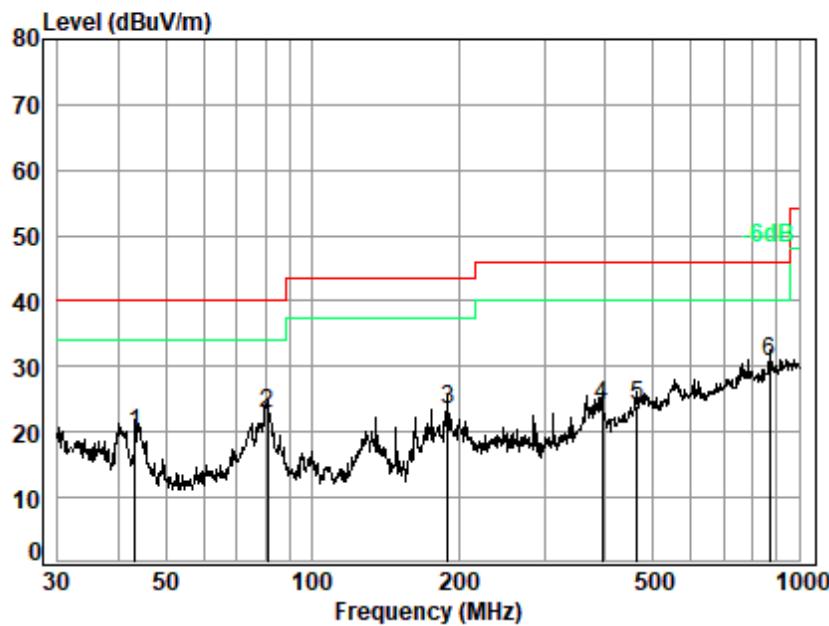
Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dBuV			
	MHz	dB/m		dB	dBuV	dBuV/m	dB	
1	30.531	20.95	0.65	27.80	24.81	18.61	40.00	-21.39 QP
2	81.497	10.58	1.07	27.66	35.69	19.68	40.00	-20.32 QP
3	192.419	14.23	1.69	27.28	33.25	21.89	43.50	-21.61 QP
4	365.539	20.31	2.42	27.18	27.79	23.34	46.00	-22.66 QP
5	477.169	22.61	2.81	27.68	26.26	24.00	46.00	-22.00 QP
6 q	760.704	26.47	3.70	27.73	28.89	31.33	46.00	-14.67 QP

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Test Mode: 01; Polarity: Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No. : 03681AT
 Test Mode: 01
 : LITHUM

Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dBuV			
	MHz	dB/m		dB	dBuV	dBuV/m	dB	
1	43.202	14.89	0.78	27.77	31.99	19.89	40.00	-20.11 QP
2	80.927	10.53	1.07	27.66	38.90	22.84	40.00	-17.16 QP
3	189.739	14.30	1.67	27.29	34.85	23.53	43.50	-19.97 QP
4	393.472	20.72	2.53	27.31	28.08	24.02	46.00	-21.98 QP
5	465.599	21.83	2.77	27.63	27.20	24.17	46.00	-21.83 QP
6 q	869.130	27.65	4.01	27.28	26.21	30.59	46.00	-15.41 QP

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8 Test Setup Photo

Refer to Setup Photo for SZCR2311003681AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2311003681AT

- End of the Report -



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