

TEST REPORT

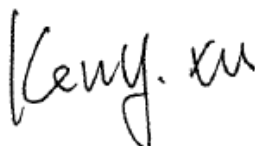
Application No.: SZCR2107022349AT
Applicant: Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address of Applicant: No.178 Yulong Avenue, Yufengshan Yubei District, Chongqing, China
Manufacturer: Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address of Manufacturer: No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China
Factory: Guangdong WangJia Intelligent Robot Co., LTD.
Address of Factory: Room 301, Building 5, No.1 Junma Road, Humen Town, Dongguan, Guangdong, China

Equipment Under Test (EUT):

EUT Name: Robot Vacuum
Model No.: RMH2101
Trade Mark: realme TechLife
FCC ID: 2AUYFRMH2101
Standard(s) : 47 CFR Part 15, Subpart B
Date of Receipt: 2021-07-26
Date of Test: 2021-07-30 to 2021-08-01
Date of Issue: 2021-08-04

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



Keny Xu
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-08-04		Original

Authorized for issue by:				
		Vincent Chen		
		Vincent Chen/Project Engineer		
		Eric Fu		
		Eric Fu/Reviewer		



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2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (30MHz-1GHz)		ANSI C63.4:2014	Class B	Pass
Radiated Emissions (above 1GHz)		ANSI C63.4:2014	Class B	Pass

Internal Source	Upper Frequency
Below 108MHz	1GHz
108MHz to 500MHz	2GHz
500MHz to 1GHz	5GHz
Above 1GHz	5 times the highest frequency or 6 GHz, whichever is less



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4 General Information

4.1 Details of E.U.T.

Power supply:	Powered by Li-ion Battery DC 14.4V, 5200mAh Charged by charging Base Model: RMH2101CB Rated Input: DC 20V, 1000mA Rated Output: DC 20V, 1000mA Charging base powered by AC adapter model: GA241-2001000U Input: AC 100-240V, 50/60Hz, 0.6A Output: DC 20V, 1000mA
Cable(s):	DC cable from Adapter 156.5cm unshielded non-core.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at Mains Terminals (150kHz-30MHz)	$\pm 2.9\text{dB}$
Radiated Emissions (30MHz-1GHz)	$\pm 4.0\text{dB(H)}$, $\pm 5.4\text{dB(V)}$
Radiated Emissions (above 1GHz)	$\pm 4.9\text{dB}$

Remark:

The U_{lab} (lab Uncertainty) is less than U_{CISPR} (CISPR 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.

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

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: CN1178**

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

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **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	2019-06-13	2022-06-12
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2021-03-24	2022-03-23
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2021-07-09	2022-07-08
LISN	Rohde&Schwarz	ENV216	SEM007-01	2020-09-23	2021-09-22
LISN	ETS-LINDGREN	3816/2	SEM007-02	2021-03-24	2022-03-25

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	2020-07-19	2023-07-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2020-11-02	2021-11-01
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2021-03-24	2022-03-23
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2021-07-09	2022-07-08

Radiated Emissions (above 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2021-03-26	2024-03-25
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2021-02-01	2022-01-31
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2021-04-14	2024-04-13
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2021-07-09	2022-07-08

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2020-09-15	2021-09-14
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2020-09-15	2021-09-14
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2021-03-30	2022-03-29



6 Emission Test Results

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

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014

Limit:

0.15M-0.5MHz	66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average
0.5M-5MHz	56dB(μV) quasi-peak, 46dB(μV) average
5M-30MHz	60dB(μV) quasi-peak, 50dB(μV) average
Detector:	Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

6.1.1 E.U.T. Operation

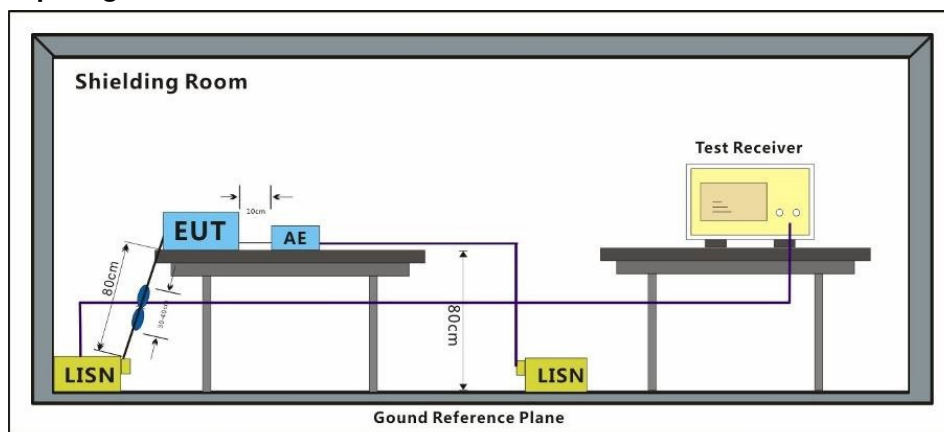
Operating Environment:

Temperature: 23.6 °C Humidity: 48.1 % RH Atmospheric Pressure: 1010 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	Charging by charging base with low power(Power level<20%)
Pre-scan	04	Charging by charging base with highpower(20%<Power level<80%)

6.1.3 Test Setup Diagram

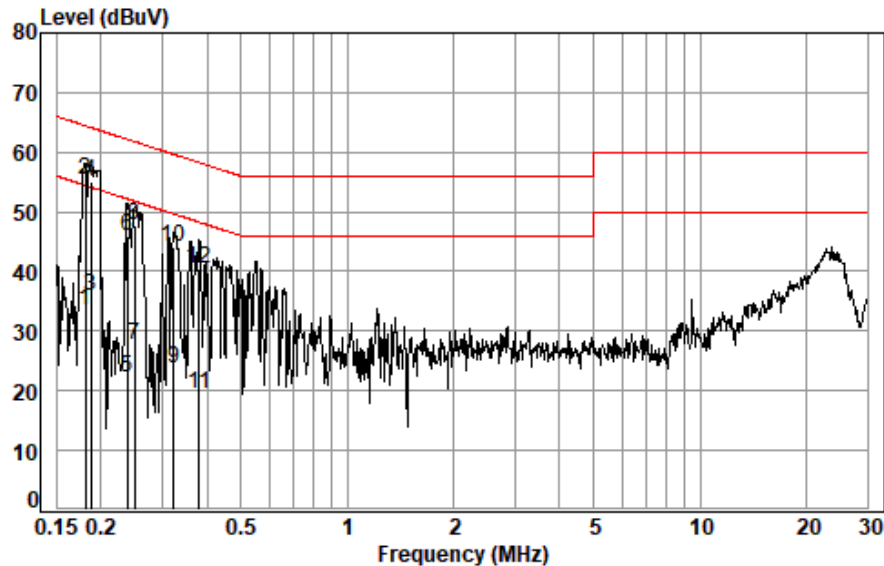


6.1.4 Measurement Procedure and Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

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

Test Mode: 03; Line: Live line



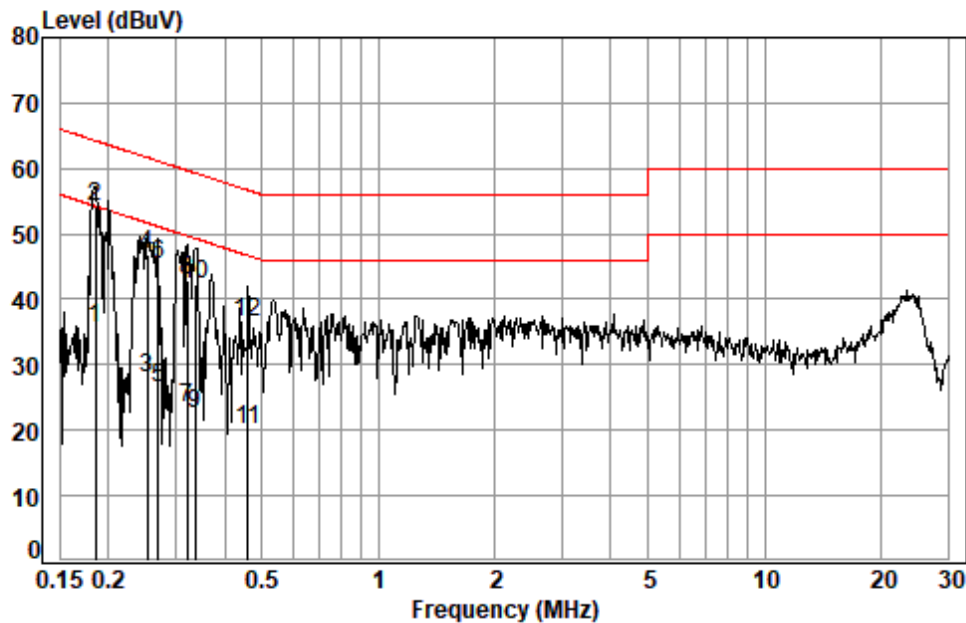
Site : Shielding Room
Condition: Line
Job No. : 22349AT
Test mode: 03

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1806	0.13	9.71	23.75	33.59	54.46	-20.87	Average
2	0.1806	0.13	9.71	45.42	55.26	64.46	-9.20	QP
3	0.1874	0.13	9.72	25.96	35.81	54.15	-18.34	Average
4	0.1874	0.13	9.72	45.28	55.13	64.15	-9.02	QP
5	0.2378	0.14	9.74	12.29	22.17	52.17	-30.00	Average
6	0.2378	0.14	9.74	36.15	46.03	62.17	-16.14	QP
7	0.2495	0.14	9.74	17.88	27.76	51.78	-24.02	Average
8	0.2495	0.14	9.74	38.02	47.90	61.78	-13.88	QP
9	0.3217	0.15	9.74	13.77	23.66	49.66	-26.00	Average
10	0.3217	0.15	9.74	34.10	43.99	59.66	-15.67	QP
11	0.3811	0.16	9.76	9.43	19.35	48.25	-28.90	Average
12	0.3811	0.16	9.76	30.58	40.50	58.25	-17.75	QP



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Test Mode: 03; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 22349AT
Test mode: 03

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1854	0.13	9.72	25.71	35.56	54.24	-18.68	Average
2	0.1854	0.13	9.72	44.29	54.14	64.24	-10.10	QP
3	0.2521	0.14	9.73	18.22	28.09	51.69	-23.60	Average
4	0.2521	0.14	9.73	37.08	46.95	61.69	-14.74	QP
5	0.2687	0.14	9.73	16.69	26.56	51.16	-24.60	Average
6	0.2687	0.14	9.73	35.60	45.47	61.16	-15.69	QP
7	0.3200	0.15	9.74	13.58	23.47	49.71	-26.24	Average
8	0.3200	0.15	9.74	32.97	42.86	59.71	-16.85	QP
9	0.3356	0.15	9.75	12.51	22.41	49.31	-26.90	Average
10	0.3356	0.15	9.75	32.28	42.18	59.31	-17.13	QP
11	0.4588	0.17	9.76	10.26	20.19	46.71	-26.52	Average
12	0.4588	0.17	9.76	26.67	36.60	56.71	-20.11	QP



6.2 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014

Measurement Distance: 3m

Limit:

FREQUENCY (MHz)	dBμV/m (At 10m)	dBμV/m (At 3m)
	Class B	Class B
30MHz -88MHz	29.5	40.0
88MHz-216MHz	33.1	43.5
216MHz-960MHz	35.6	46.0
960MHz-1000MHz	43.5	54.0
Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to 1000MHz		

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 27.1 °C

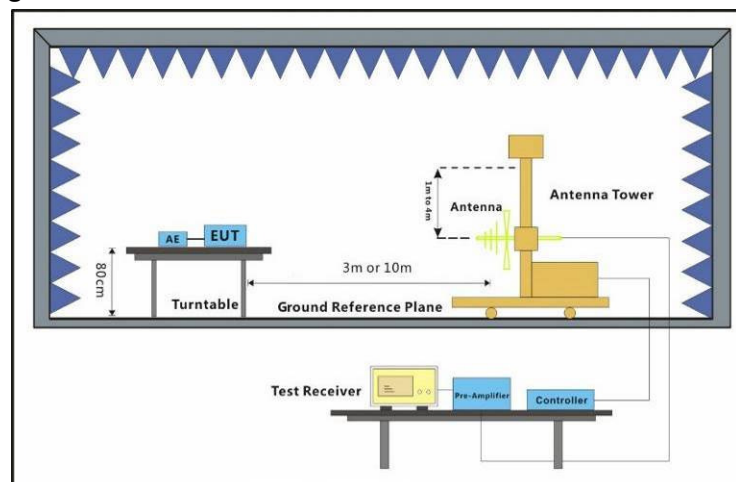
Humidity: 59.2 % RH

Atmospheric Pressure: 1010 mbar

6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	Normal working Keep the EUT in normal working.
Final test	03	Charging by charging base with low power(Power level<20%)
Pre-scan	04	Charging by charging base with highpower(20%<Power level<80%)

6.2.3 Test Setup Diagram



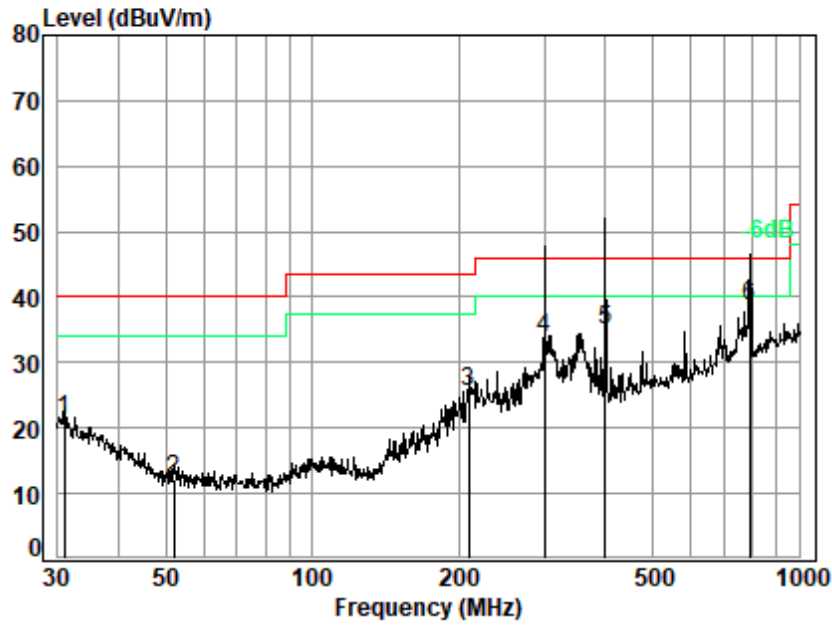
6.2.4 Measurement Procedure and Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

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



Test Mode: 02; Polarity: Horizontal

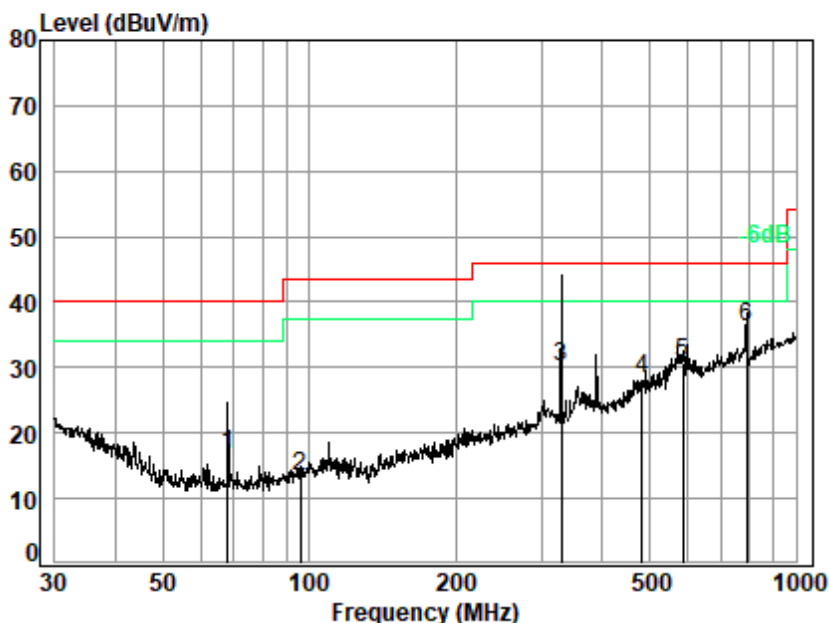


Site : chamber
Condition: 3m HORIZONTAL
Job No. : 22349AT
Test Mode: 02

	Ant	Cable	Preamp	Read	Limit	Over	
Freq	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.96	22.27	0.80	27.73	25.92	21.26	40.00 -18.74 QP
2	52.03	13.50	0.94	27.68	25.41	12.17	40.00 -27.83 QP
3	209.31	16.27	2.11	27.11	34.39	25.66	43.50 -17.84 QP
4	300.37	19.11	2.20	26.87	39.30	33.74	46.00 -12.26 QP
5	400.43	21.70	2.50	27.39	38.31	35.12	46.00 -10.88 QP
6 q	793.40	27.83	3.48	27.74	35.09	38.66	46.00 -7.34 QP



Test Mode: 02; Polarity: Vertical

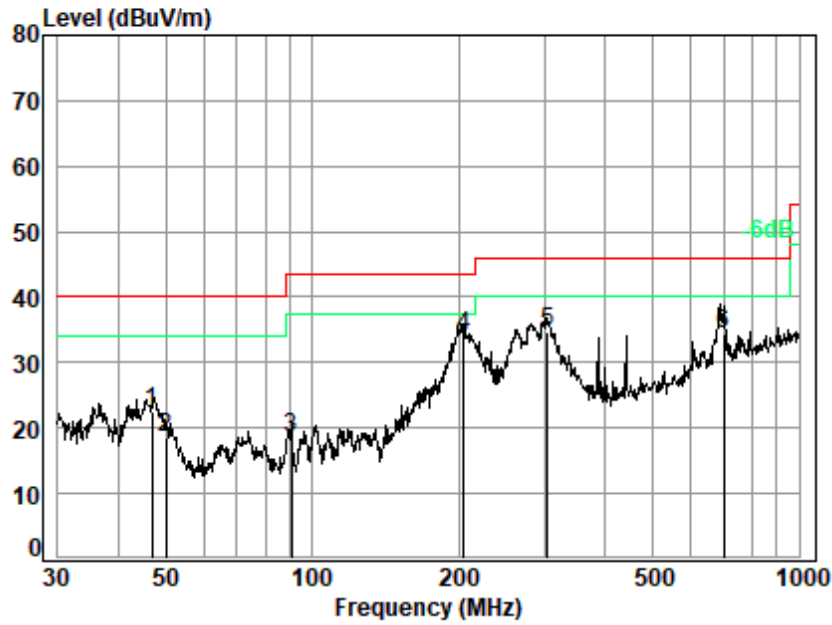


Site : chamber
Condition: 3m VERTICAL
Job No. : 22349AT
Test Mode: 02

		Ant	Cable	Preamp	Read	Limit	Over	
	Freq	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	67.91	12.61	1.18	27.65	30.56	16.70	40.00	-23.30 QP
2	95.76	13.76	1.58	27.61	25.51	13.24	43.50	-30.26 QP
3	329.04	20.16	2.30	27.04	34.82	30.24	46.00	-15.76 QP
4	482.22	24.30	2.58	27.73	29.10	28.25	46.00	-17.75 QP
5	586.84	25.44	2.69	28.09	30.80	30.84	46.00	-15.16 QP
6 q	793.40	27.83	3.48	27.74	32.53	36.10	46.00	-9.90 QP



Test Mode: 03; Polarity: Horizontal

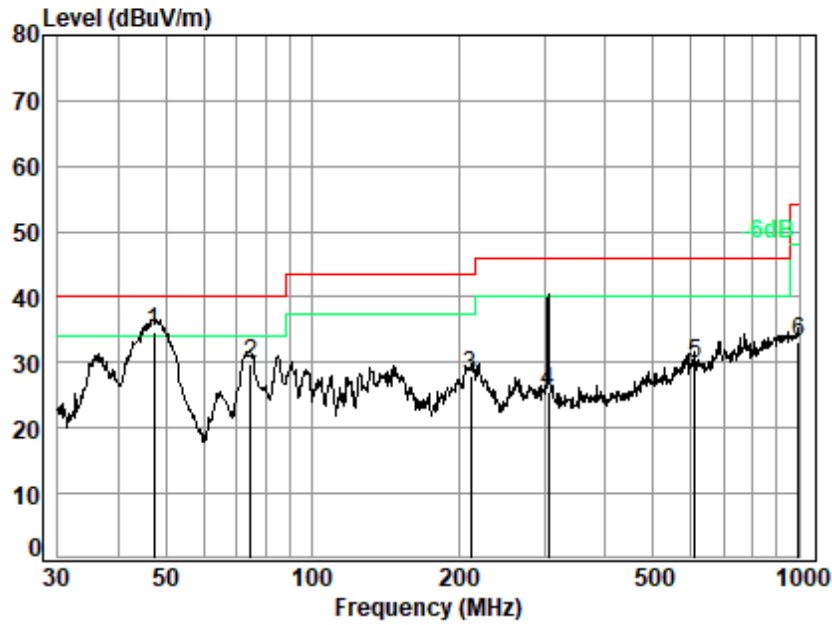


Site : chamber
Condition: 3m HORIZONTAL
Job No. : 22349AT
Test Mode: 03

		Ant	Cable	Preamp	Read	Limit	Over	
	Freq	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	46.83	15.18	0.87	27.69	34.10	22.46	40.00	-17.54 QP
2	50.06	14.08	0.90	27.68	31.40	18.70	40.00	-21.30 QP
3	90.54	13.21	1.42	27.62	31.53	18.54	43.50	-24.96 QP
4 q	204.96	16.05	2.11	27.13	42.91	33.94	43.50	-9.56 QP
5	304.61	19.24	2.22	26.90	40.20	34.76	46.00	-11.24 QP
6	701.76	27.14	3.21	27.91	31.94	34.38	46.00	-11.62 QP



Test Mode: 03; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 22349AT
Test Mode: 03

		Ant	Cable	Preamp	Read	Limit	Over	
	Freq	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	q	47.33	14.93	0.88	27.69	46.70	34.82	40.00 -5.18 QP
2		74.66	12.40	1.30	27.64	43.74	29.80	40.00 -10.20 QP
3		211.53	16.38	2.11	27.11	36.49	27.87	43.50 -15.63 QP
4		305.68	19.27	2.22	26.90	31.01	25.60	46.00 -20.40 QP
5		612.06	26.38	2.76	28.10	28.62	29.66	46.00 -16.34 QP
6		996.50	29.75	4.09	26.68	26.03	33.19	54.00 -20.81 QP



6.3 Radiated Emissions (above 1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014

Measurement Distance: 3m

Limit:

Above 1GHz 74(dBμV/m) peak, 54(dBμV/m) average at 3m distance
 83.54(dBμV/m) peak, 63.54(dBμV/m) average at 1m distance

Detector: Peak for pre-scan (1MHz resolution bandwidth) 1GHz to 40GHz

6.3.1 E.U.T. Operation

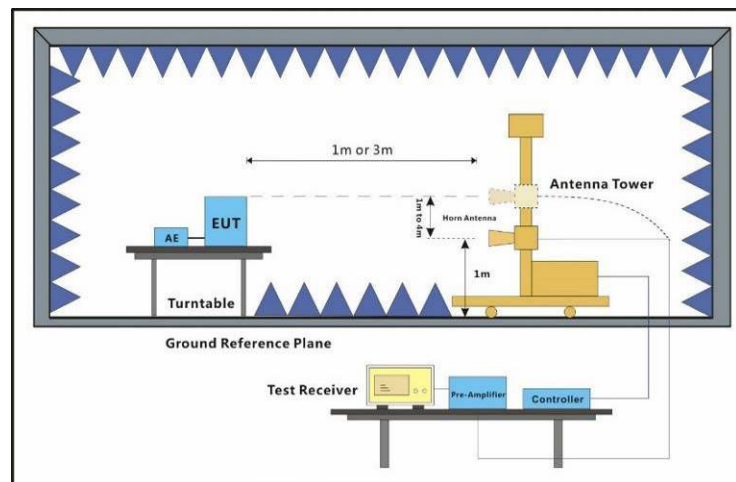
Operating Environment:

Temperature: 21.6 °C Humidity: 51.8 % RH Atmospheric Pressure: 1010 mbar

6.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	Normal working_Keep the EUT in normal working.
Pre-scan	03	Charging by charging base with low power(Power level<20%)
Pre-scan	04	Charging by charging base with highpower(20%<Power level<80%)

6.3.3 Test Setup Diagram

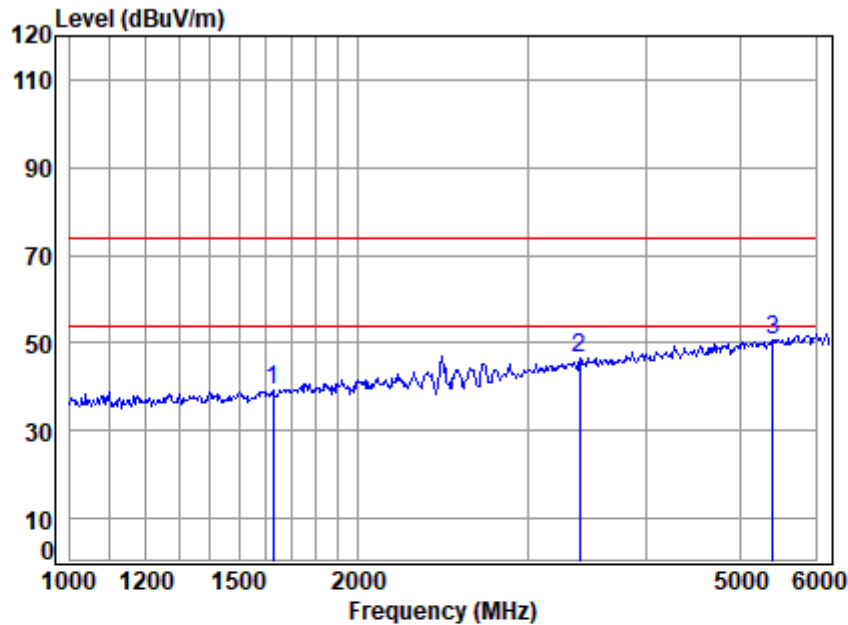


6.3.4 Measurement Procedure and Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

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

Test Mode: 02; Polarity: Horizontal

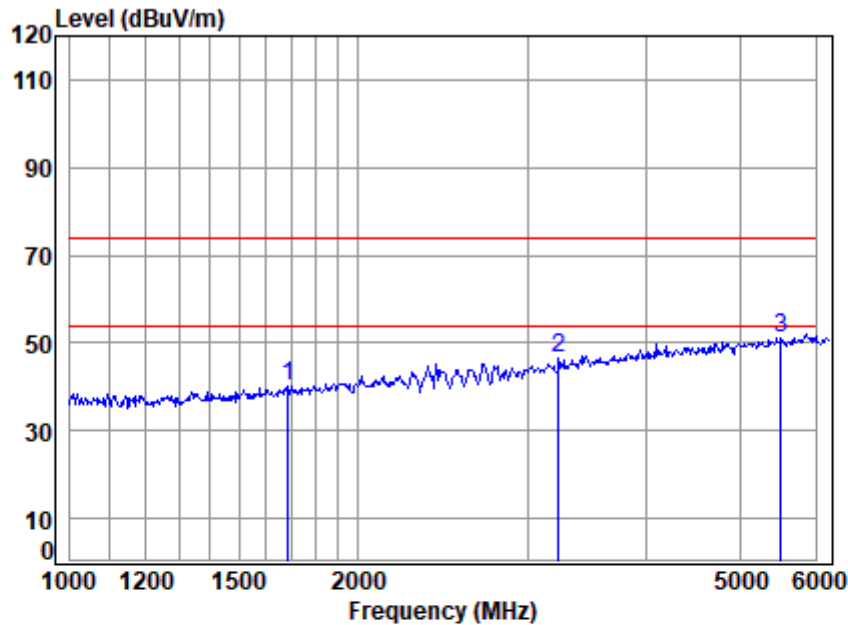


Site : chamber
Condition: 3m HORIZONTAL
Job No : 22394AT
Mode : 03

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1629.825	3.37	26.36	40.02	49.32	39.03	74.00	-34.97	Peak
2	3405.929	5.40	31.47	41.01	50.77	46.63	74.00	-27.37	Peak
3	5408.529	8.03	34.16	42.34	50.66	50.51	74.00	-23.49	Peak



Test Mode: 02; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 22394AT
Mode : 03

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1687.347	3.42	26.64	40.05	49.96	39.97	74.00	-34.03 Peak
2	3233.260	5.18	31.03	40.88	51.28	46.61	74.00	-27.39 Peak
3	5519.072	8.18	34.22	42.35	51.27	51.32	74.00	-22.68 Peak



7 Test Setup Photo

Refer to Setup Photos.

8 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2107022349AT

- End of the Report -

