

TEST REPORT

Application No.: SZCR2410003810WM
Applicant: Sonim Technologies, Inc.
Address of Applicant: 4445 Eastgate Mall, Suite 200, San Diego, CA 92121, USA
Manufacturer: Sonim Technologies, Inc.
Address of Manufacturer: 4445 Eastgate Mall, Suite 200, San Diego, CA 92121, USA
Equipment Under Test (EUT):
EUT Name: smartphone
Model No.: X800
Type No.: S1003/S1001/S1004/S1005/S1006/S1010
Trade Mark: Sonim
FCC ID: WYPS1003
Standard(s) : 47 CFR Part 15, Subpart C 15.225
Date of Receipt: 2024-10-15
Date of Test: 2024-10-16 to 2024-12-06
Date of Issue: 2024-12-23

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

Keny Xu

Keny Xu
EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (EMC Laboratory)

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Report No.: SZCR241000381007

Page: 2 of 32

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024-12-23		Original

Authorized for issue by:				
		Calvin Weng		
		Calvin Weng/Project Engineer		
		Eric Fu		
		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
Frequency tolerance		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart C 15.225(e)	Pass
Radiated Emissions (9kHz-30MHz)		ANSI C63.10 (2013) Section 6.4	47 CFR Part 15, Subpart C 15.225(d) & 15.209	Pass
Radiated Emissions (30MHz-1GHz)		ANSI C63.10 (2013) Section 6.5	47 CFR Part 15, Subpart C 15.225(d) & 15.209	Pass



3 Contents

	Page
1 Cover Page	1
2 Test Summary	3
3 Contents	4
4 General Information	6
4.1 Details of E.U.T.	6
4.2 Description of Support Units	6
4.3 Measurement Uncertainty	6
4.4 Test Location	7
4.5 Test Facility	7
4.6 Deviation from Standards	7
4.7 Abnormalities from Standard Conditions	7
5 Equipment List	8
6 Radio Spectrum Technical Requirement	10
6.1 Antenna Requirement	10
6.1.1 Test Requirement:	10
6.1.2 Conclusion	10
7 Radio Spectrum Matter Test Results	11
7.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)	11
7.1.1 E.U.T. Operation	11
7.1.2 Test Mode Description	11
7.1.3 Test Setup Diagram	11
7.1.4 Measurement Procedure and Data	12
7.2 20dB Bandwidth	15
7.2.1 E.U.T. Operation	15
7.2.2 Test Mode Description	15
7.2.3 Test Setup Diagram	15
7.2.4 Measurement Procedure and Data	15
7.3 Emission Mask	17
7.3.1 E.U.T. Operation	17
7.3.2 Test Mode Description	17
7.3.3 Test Setup Diagram	18
7.3.4 Measurement Procedure and Data	18
7.4 Frequency tolerance	20
7.4.1 E.U.T. Operation	20
7.4.2 Test Mode Description	20
7.4.3 Test Setup Diagram	20
7.4.4 Measurement Procedure and Data	20
7.5 Radiated Emissions (9kHz-30MHz)	22
7.5.1 E.U.T. Operation	22



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000381007

Page: 5 of 32

7.5.2	Test Mode Description	22
7.5.3	Test Setup Diagram	23
7.5.4	Measurement Procedure and Data.....	23
7.6	Radiated Emissions (30MHz-1GHz)	26
7.6.1	E.U.T. Operation	26
7.6.2	Test Mode Description	26
7.6.3	Test Setup Diagram	26
7.6.4	Measurement Procedure and Data.....	27
8	Test Setup Photo	31
9	EUT Constructional Details (EUT Photos)	32



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC3.87V by Li-ion battery(5000mAh) Recharged by AC/DC power adapter Adapter M/N:1-CHUSQ302-097 Adapter Manufacturer: HUIZHOU PUAN ELEOTRONICS CO.,LTD Adapter output: 5V/3A,9V/2A,12V/1.5A Battery M/N:BAT-05000-21S Battery Manufacturer: Shenzhen Aerospace Electronic Co.,Ltd.
Cable(s):	USB type C cable M/N: HX-YLMK-16 1.5m shielded cable without ferrite core USB type C cable manufacturer: HUIZHOU WASHIN ELECTRONICS CO.,LTD
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.
--	--	--	--

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

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

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (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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Report No.: SZCR241000381007

Page: 7 of 32

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, Nanshan District, 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: 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	ESR	SZ-WRG-M-047	2024-01-30	2025-01-29
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2024-07-06	2025-07-05
LISN	Rohde&Schwarz	ENV216	SEM007-01	2024-08-15	2025-08-14
LISN	ETS-LINDGREN	3816/2	SEM007-02	2024-03-14	2025-03-13

20dB Bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13
Spectrum Analyzer	R&S	FSP	SEM004-07	2024-08-14	2025-08-13
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05

Emission Mask					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2024-03-26	2025-03-25
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2024-08-14	2025-08-13
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2023-09-23	2025-09-22
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2024-03-27	2025-03-26
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2024-07-06	2025-07-05

Frequency tolerance					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13
Spectrum Analyzer	R&S	FSP	SEM004-07	2024-08-14	2025-08-13
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A



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Report No.: SZCR241000381007

Page: 9 of 32

Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2024-03-27	2025-03-26
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18

Radiated Emissions (9kHz-30MHz)

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2024-03-26	2025-03-25
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2024-08-14	2025-08-13
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2024-03-27	2025-03-26
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2024-07-06	2025-07-05

Radiated Emissions (30MHz-1GHz)

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2024-03-26	2025-03-25
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2024-08-14	2025-08-13
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2023-09-23	2025-09-22
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2024-03-27	2025-03-26
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2024-07-06	2025-07-05

General used equipment

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17



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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

15.203 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.

EUT Antenna:

The antenna is integrated inside the EUT and no consideration of replacement.

Antenna location: Refer to internal photos.



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: 22.5 °C

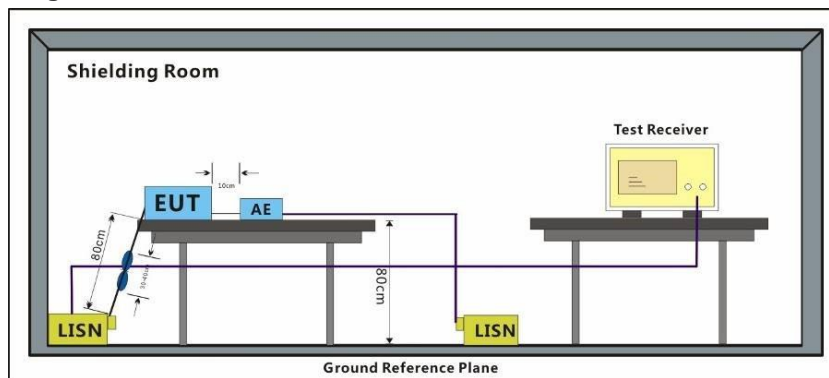
Humidity: 44.5 % RH

Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	27	TX mode with modulation

7.1.3 Test Setup Diagram



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



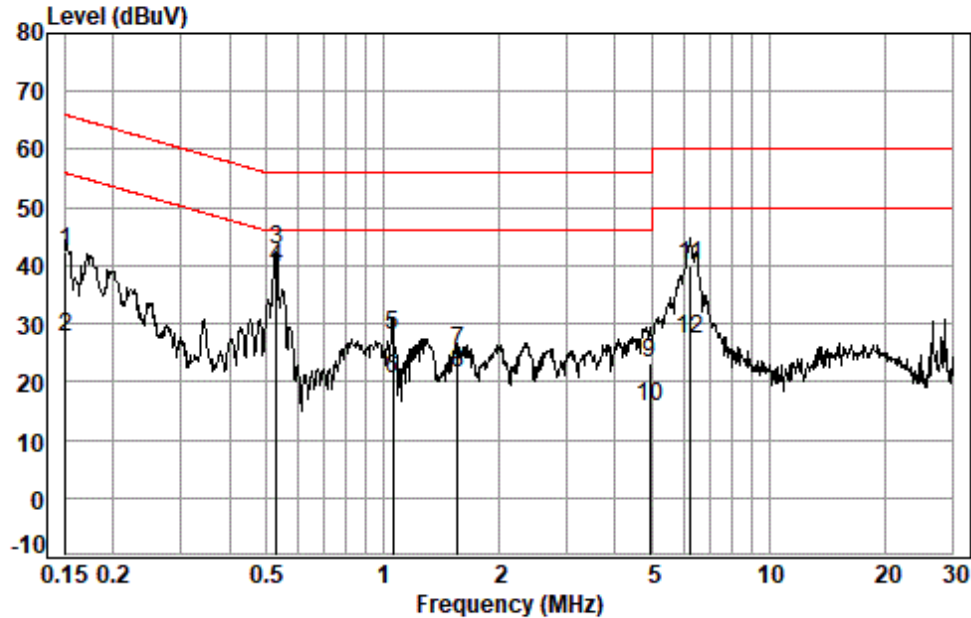
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000381007

Page: 13 of 32

Test Mode: 27; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 03810WM
Test mode: 27

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1508	0.06	10.19	32.00	42.25	65.96	-23.71	QP
2	0.1508	0.06	10.19	17.54	27.79	55.96	-28.17	Average
3 *	0.5293	0.08	9.56	33.02	42.66	56.00	-13.34	QP
4 *	0.5293	0.08	9.56	29.88	39.52	46.00	-6.48	Average
5	1.0597	0.09	9.58	18.39	28.06	56.00	-27.94	QP
6	1.0597	0.09	9.58	10.73	20.40	46.00	-25.60	Average
7	1.5601	0.10	9.58	15.42	25.10	56.00	-30.90	QP
8	1.5601	0.10	9.58	11.93	21.61	46.00	-24.39	Average
9	4.9257	0.12	9.66	13.55	23.33	56.00	-32.67	QP
10	4.9257	0.12	9.66	6.03	15.81	46.00	-30.19	Average
11	6.2520	0.15	9.67	30.30	40.12	60.00	-19.88	QP
12	6.2520	0.15	9.67	17.40	27.22	50.00	-22.78	Average



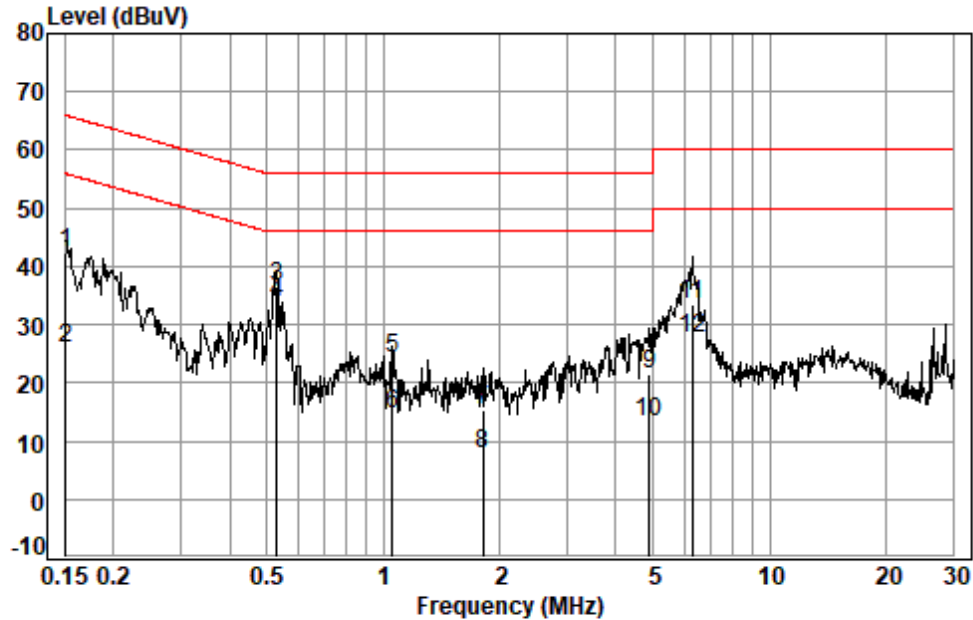
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Test Mode: 27; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 03810WM
Test mode: 27

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1508	0.06	10.15	32.13	42.34	65.96	-23.62	QP
2	0.1508	0.06	10.15	15.83	26.04	55.96	-29.92	Average
3 *	0.5293	0.08	9.70	26.87	36.65	56.00	-19.35	QP
4 *	0.5293	0.08	9.70	23.93	33.71	46.00	-12.29	Average
5	1.0541	0.09	9.54	14.69	24.32	56.00	-31.68	QP
6	1.0541	0.09	9.54	4.93	14.56	46.00	-31.44	Average
7	1.8096	0.10	9.55	5.59	15.24	56.00	-40.76	QP
8	1.8096	0.10	9.55	-1.81	7.84	46.00	-38.16	Average
9	4.8738	0.12	9.56	11.93	21.61	56.00	-34.39	QP
10	4.8738	0.12	9.56	3.46	13.14	46.00	-32.86	Average
11	6.3186	0.15	9.62	23.83	33.60	60.00	-26.40	QP
12	6.3186	0.15	9.62	18.00	27.77	50.00	-22.23	Average



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

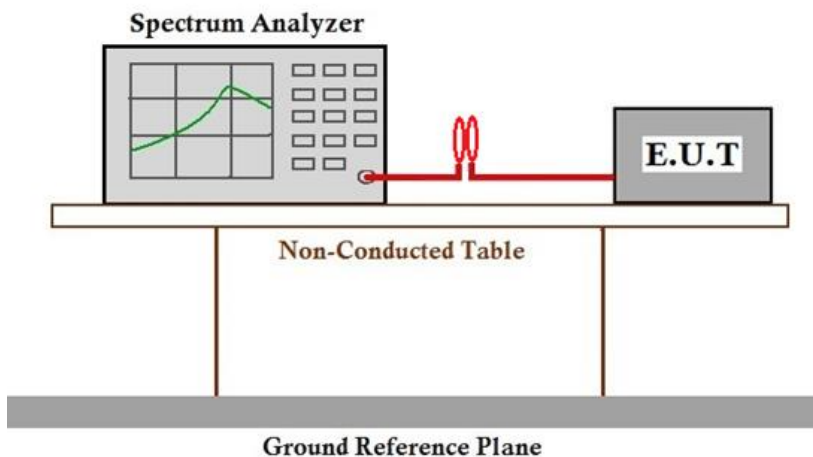
Operating Environment:

Temperature: 23.7 °C Humidity: 49.5 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	27	TX mode with modulation

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

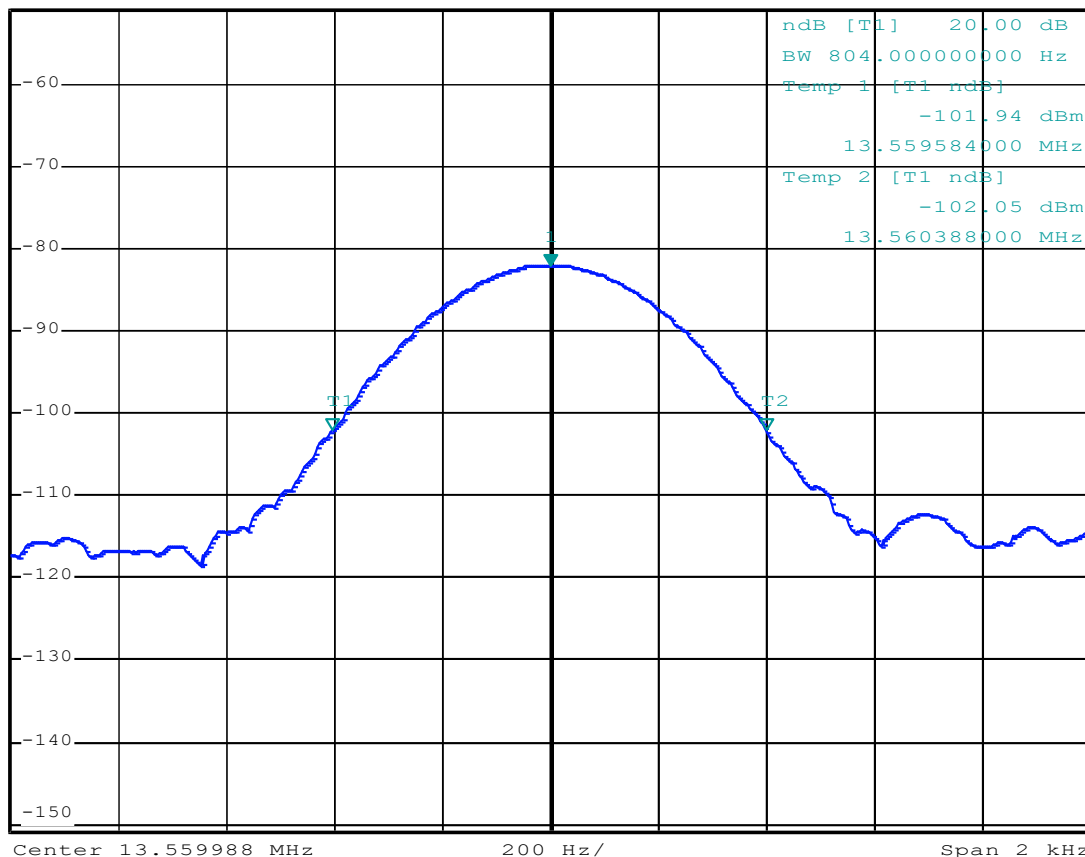
The useful radiated emission from the EUT was detected by the spectrum analyser with peak detector.





Ref -51 dBm *Att 0 dB *RBW 300 Hz Marker 1 [T1] -81.99 dBm
 SWT 35 ms 13.559988000 MHz

1 PK
VIEW



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 3m 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 dBμV/m
 FS_{max} is the measured field strength, expressed in dBμV/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 124dBuV/m at 3 meters.

7.3.1 E.U.T. Operation

Operating Environment:

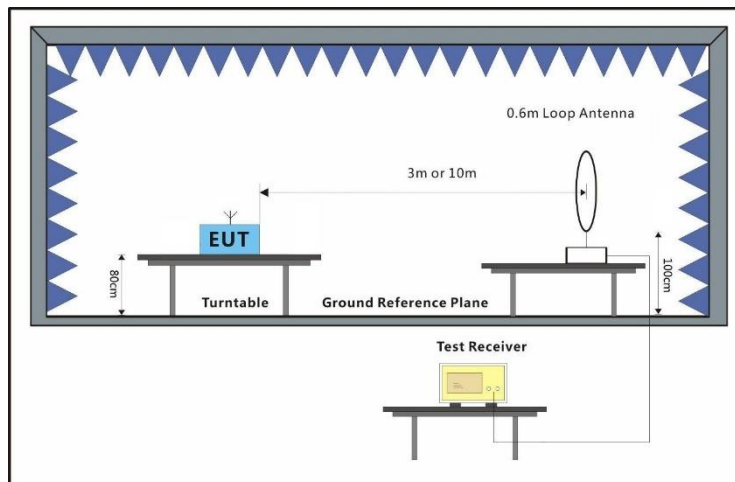
Temperature: 23.6 °C Humidity: 50.9 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	27	TX mode with modulation

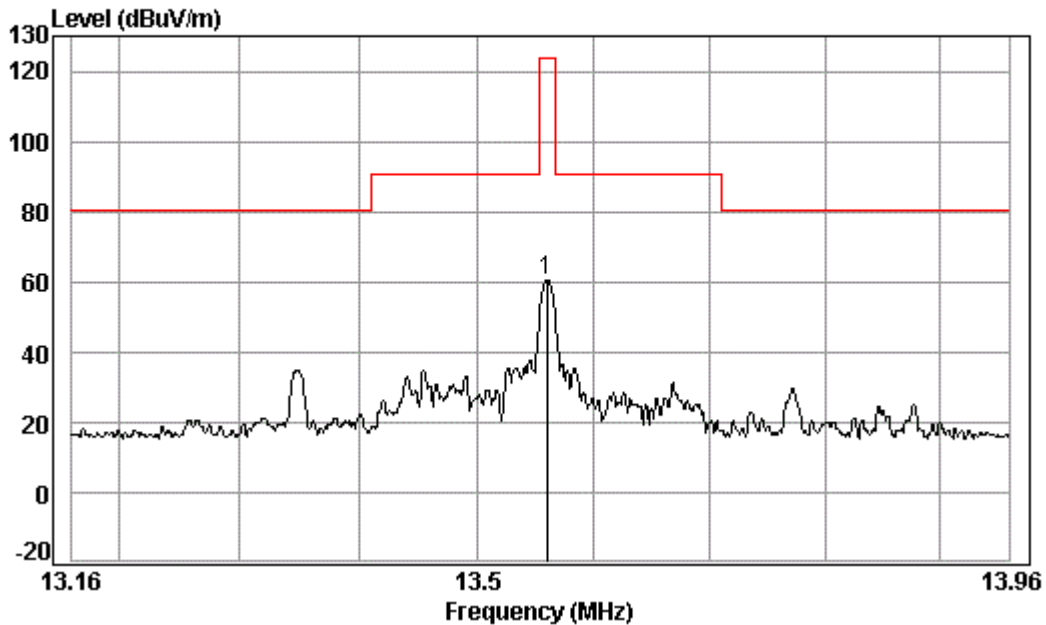


7.3.3 Test Setup Diagram



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.



Condition: 3m

Job No. : 03810WM

Test Mode: 27

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	pp	13.560	84.58	8.55	0.00	32.50	60.63	124.00	-63.37 QP



7.4 Frequency tolerance

Test Requirement 47 CFR Part 15, Subpart C 15.225(e)

Test Method: ANSI C63.10 (2013) Section 6.8

Limit:

$\pm 0.01\%$

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C

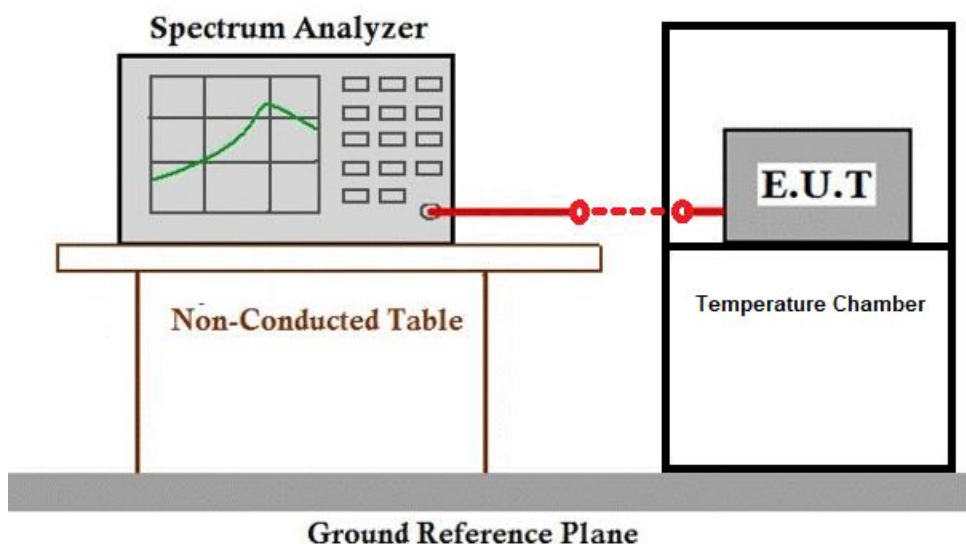
Humidity: 49.5 % RH

Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	27	TX mode with modulation

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

The EUT was placed in an environmental test chamber and powered such that control element received normal voltage and the transmitter provided maximum RF output.



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000381007

Page: 21 of 32

Declared Frequency (MHz)		13.56MHz	@10 minutes		
Temperature (°C)	Voltage(Vdc)	Measurement Frequency(MHz)	Frequency Tolerance (%)	Limit (%)	Result
50	3.87	13.559944	-0.000413	±0.01	Pass
40		13.559949	-0.000376		Pass
30		13.559943	-0.000420		Pass
20		13.559949	-0.000376		Pass
10		13.559950	-0.000369		Pass
0		13.559945	-0.000406		Pass
-10		13.559944	-0.000413		Pass
-20		13.559948	-0.000383		Pass
20	3.65	13.559950	-0.000369		Pass
	4.45	13.559946	-0.000398		Pass



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7.5 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

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

Note:

At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

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

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C

Humidity: 50.9 % RH

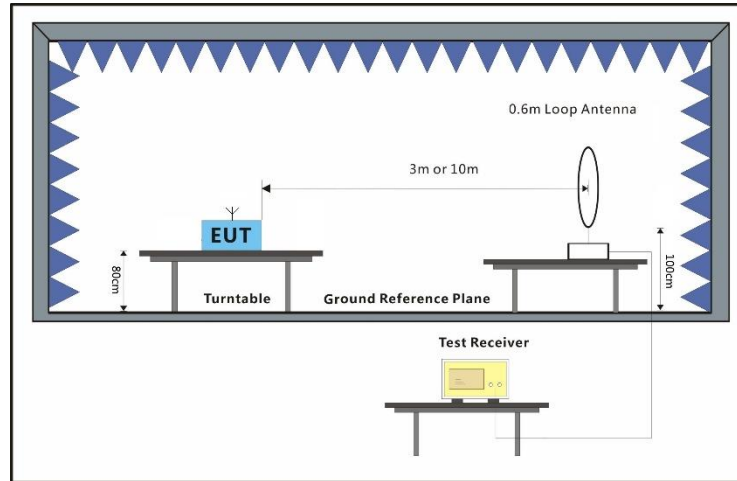
Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	27	TX mode with modulation



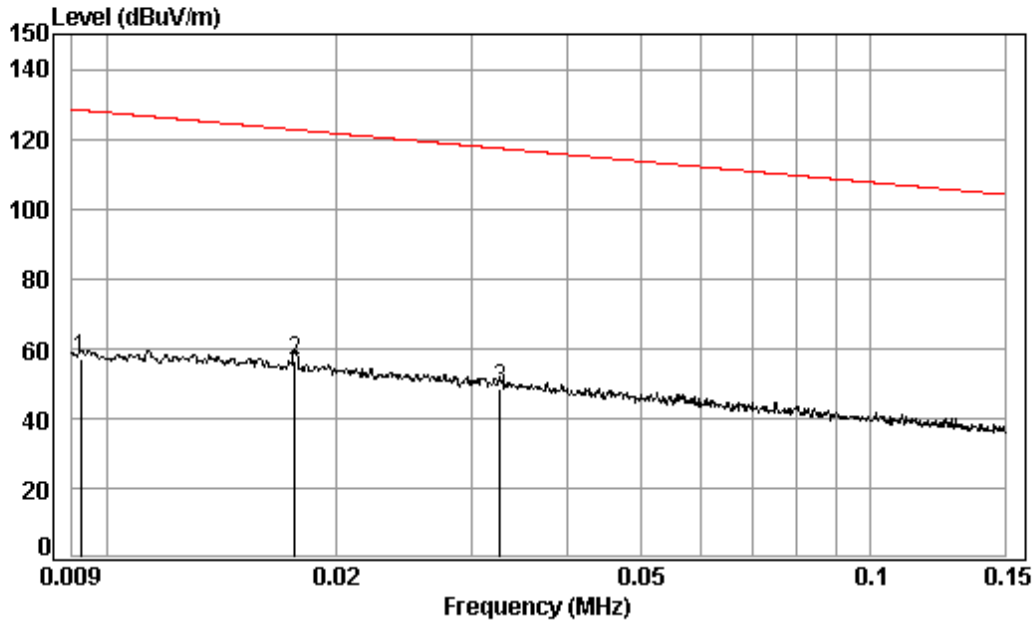
7.5.3 Test Setup Diagram



7.5.4 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.





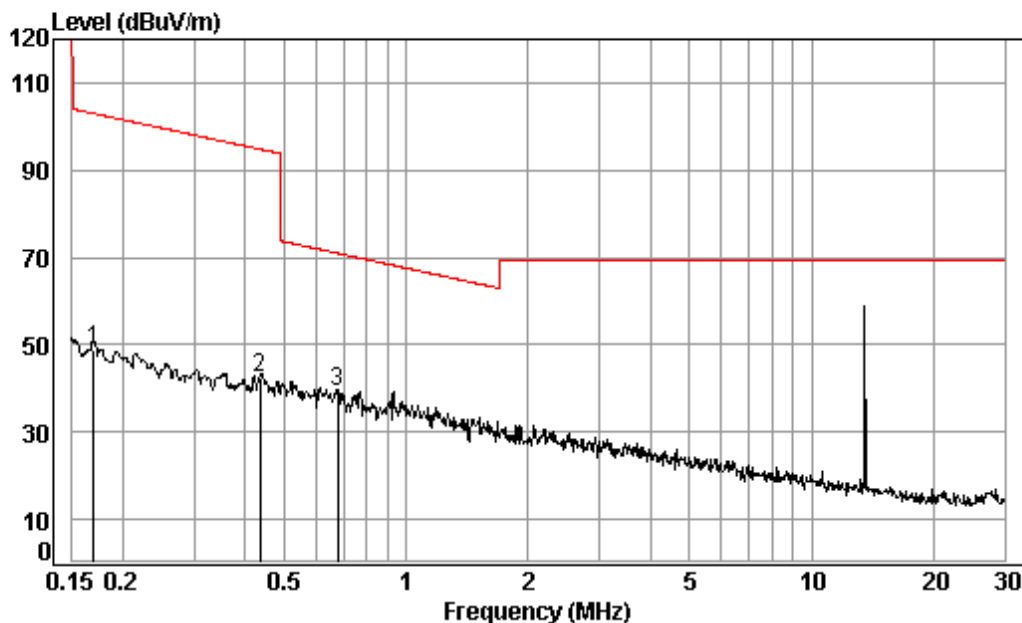
Condition: 3m

Job No. : 03810WM

Test Mode: 27

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	0.009	68.76	18.89	0.34	31.01	56.98	128.28	-71.30	Average
2 pp	0.018	72.80	14.80	0.34	31.32	56.62	122.66	-66.04	Average
3	0.033	68.25	11.96	0.33	31.87	48.67	117.29	-68.62	Average





Condition: 3m

Job No. : 03810WM

Test Mode: 27

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	0.169	70.66	10.48	0.33	32.60	48.87	103.02	-54.15	Average
2 av	0.437	64.30	10.38	0.37	32.61	42.44	94.79	-52.35	Average
3 pp	0.679	61.16	10.35	0.40	32.63	39.28	70.95	-31.67	QP



7.6 Radiated Emissions (30MHz-1GHz)

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

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

Measurement Distance: 10m

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.

Note: a correction factor of $20 \cdot \log(10/3)$ dB was taken into field strength from 10m to 3m.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C

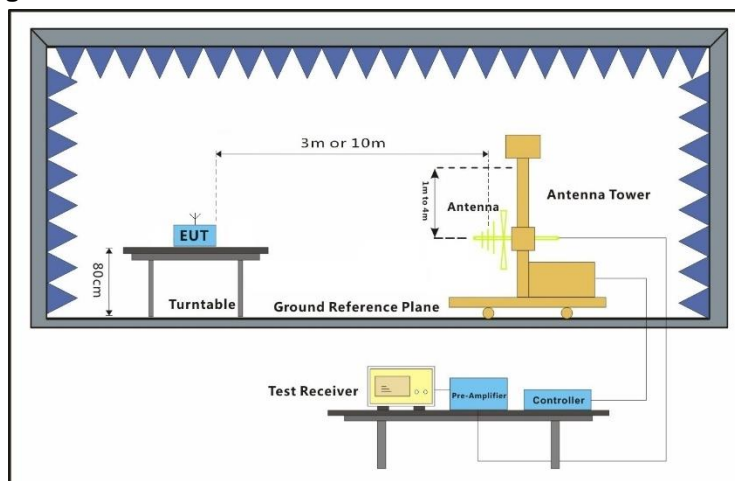
Humidity: 50.9 % RH

Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	27	TX mode with modulation

7.6.3 Test Setup Diagram



7.6.4 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

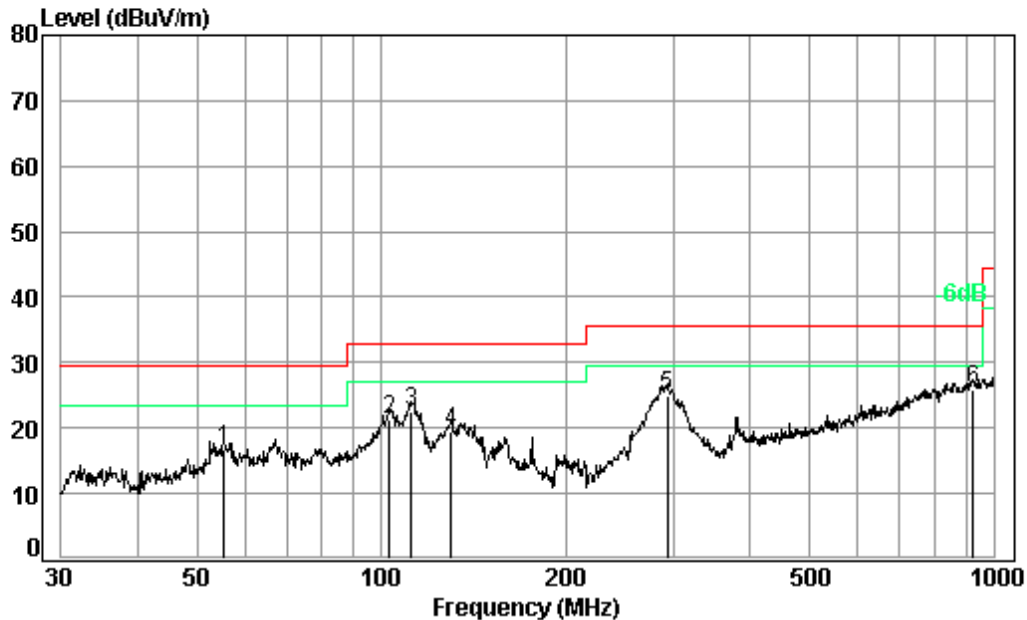


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Test Mode: 27; Polarity: Horizontal



Condition: 10m HORIZONTAL

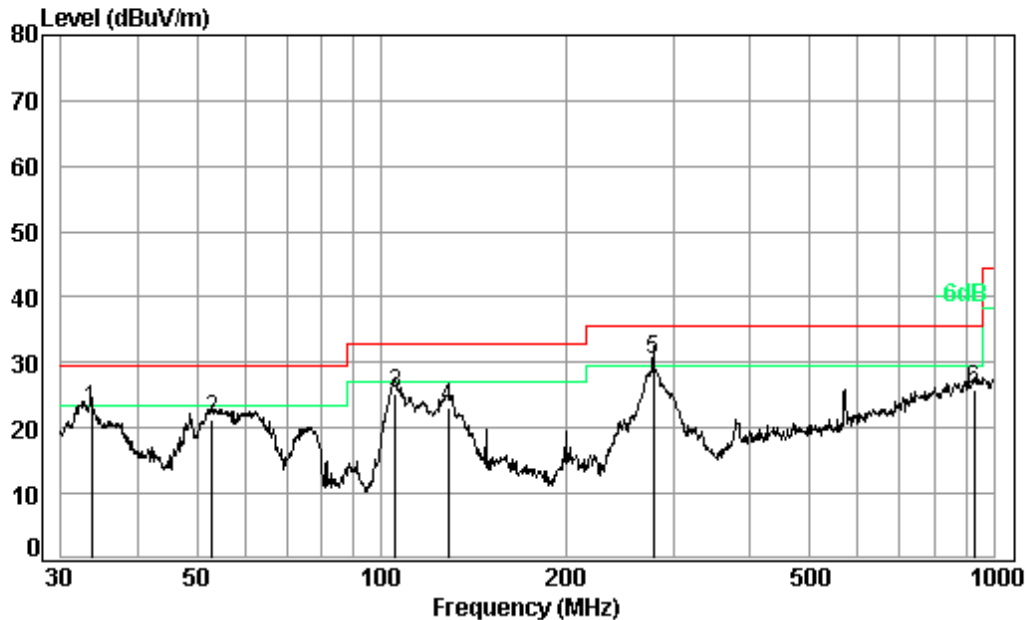
Job No. : 03810WM

Test Mode: 27

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	55.415	30.85	17.86	0.56	32.48	16.79	29.50	-12.71	QP
2	103.080	39.55	13.61	0.76	32.50	21.42	33.00	-11.58	QP
3	112.131	39.38	14.78	0.80	32.50	22.46	33.00	-10.54	QP
4	129.923	34.72	16.25	0.87	32.50	19.34	33.00	-13.66	QP
5	293.084	38.56	17.43	1.42	32.41	25.00	35.60	-10.60	QP
6 pp	925.756	26.95	27.84	2.66	31.62	25.83	35.60	-9.77	QP



Test Mode: 27; Polarity: Vertical



Condition: 10m VERTICAL

Job No. : 03810WM

Test Mode: 27

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	33.680	38.51	16.27	0.44	32.50	22.72	29.50	-6.78	QP
2	52.945	35.17	18.18	0.55	32.49	21.41	29.50	-8.09	QP
3	105.642	43.07	14.02	0.77	32.50	25.36	33.00	-7.64	QP
4	128.563	38.69	16.13	0.86	32.50	23.18	33.00	-9.82	QP
5 pp	278.067	44.56	16.98	1.38	32.42	30.50	35.60	-5.10	QP
6	929.008	26.82	27.89	2.66	31.60	25.77	35.60	-9.83	QP



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000381007

Page: 30 of 32

H:

Frequency(MHz)	Strength Level @10m(dBuV/m)	Convert data from 10m to 3m(dBuV/m)	Limit(dB)	Over limit(dB)	Verdict
55.415	16.79	27.25	40	-12.75	Pass
103.080	21.42	31.88	43.5	-11.62	Pass
112.131	22.46	32.92	43.5	-10.58	Pass
129.923	19.34	29.8	43.5	-13.7	Pass
293.084	25.00	35.46	46	-10.54	Pass
925.756	25.83	36.29	46	-9.71	Pass

V:

Frequency(MHz)	Strength Level @10m(dBuV/m)	Convert data from 10m to 3m(dBuV/m)	Limit(dB)	Over limit(dB)	Verdict
33.680	22.72	33.18	40	-6.82	Pass
52.945	21.41	31.87	40	-8.13	Pass
105.642	25.36	35.82	43.5	-7.68	Pass
128.563	23.18	33.64	43.5	-9.86	Pass
278.067	30.50	40.96	46	-5.04	Pass
929.008	25.77	36.23	46	-9.77	Pass



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2410003810WM



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9 EUT Constructional Details (EUT Photos)

Refer to Appendix_Photographs of EUT Constructional Details for SZCR2410003810WM

- End of the Report -

