

SZEMC-TRF-01 Rev. A/1

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# **TEST REPORT**

Application No.:	SZCR2410003959WM
Applicant:	Guangdong OPPO Mobile Telecommunications Corp.,Ltd.
Address of Applicant:	NO.18 Haibin Road, Wusha, Chang'an Town, Dongguan City, Guangdong, China
Manufacturer:	Guangdong OPPO Mobile Telecommunications Corp.,Ltd.
Address of Manufacturer:	NO.18 Haibin Road, Wusha, Chang'an Town, Dongguan City, Guangdong, China
Equipment Under Test (EUT	):
EUT Name:	Mobile Phone
Model No.:	CPH2699
Trade Mark:	OPPO
FCC ID:	R9C-OP24263
Standard(s) :	47 CFR Part 15, Subpart C 15.225
Date of Receipt:	2024-10-25
Date of Test:	2024-11-20 to 2024-12-11
Date of Issue:	2024-12-11
Test Result:	Pass*

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

Keny. KN

Keny Xu EMC Laboratory Manager



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Revision Record					
Version Chapter Date Modifier Rema					
01		2024-12-11		Original	

Authorized for issue by:		
	Sherlock Jang	
	Sherlock Fang/Project Engineer	
	Erric Fu	
	Eric Fu/Reviewer	



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# 2 Test Summary

Radio Spectrum Technical Requirement				
Item Standard Method Requirement Resul				
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)		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	47 CFR Part 15,	ANSI C63.10 (2013) Section 6.4	47 CFR Part 15, Subpart C 15.225(a)&(b)&(C )	Pass
Frequency tolerance	Subpart C 15.225	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&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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#### **General Information** 4

#### Details of E.U.T. 4.1

Power supply:	DC 3.92V from internal rechargeable battery which can be charged by AC/DC adapter
Operation Frequency:	13.56MHz
Modulation Type:	ASK

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 Environment Parameter

Environment Parameter		Selected Values During Tests		ests
Relative Humidity	Relative Humidity		Ambient	
Value		Temperate	ure(°C)	Voltage(V)
NTNV		22~25		3.92
LTLV		-30		3.4
LTHV		-30		4.53
HTLV		50		3.4
HTHV		50		4.53
Note:				
NV:Normal Voltage LV:Low Extreme Test Vo		/oltage HV:High Extreme Test Voltag		me Test Voltage
NT:Normal Temperature	NT:Normal Temperature LT:Low Extreme Test Te		emperature HT:High Extreme Test Temperat	

### 4.3 Description of Support Units

Description	Manufacturer	Ianufacturer Model No.	
The EUT has been tested as	an independent unit.		



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### 4.4 Measurement Uncertainty

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

Remark:

The Ulab (lab Uncertainty) is less than Ucispr/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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### 4.5 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.

#### 4.6 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.

#### 4.7 Deviation from Standards

None

### 4.8 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	Zhao Xin	PS-305D	SEM011-13	2024-08-14	2025-08-13				
Spectrum Analyzer	Rohde & Schwarz	FSP30	SEM004-06	2024-09-14	2025-09-13				
Measurement Software	are TST PASS TST		N/A	N/A	N/A				
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				

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		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	



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Frequency tolerance									
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date				
DC Power Supply	Zhao Xin	PS-305D	SEM011-13	2024-08-14	2025-08-13				
Spectrum Analyzer	Rohde & Schwarz	FSP30	SEM004-06	2024-09-14	2025-09-13				
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A				
Coaxial Cable	axial Cable SGS N//		SEM031-01	2024-07-06	2025-07-05				
Attenuator	Attenuator Huber+Suhner 6620_5		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	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				

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	Pre-amplifier Sonoma Instrument Co		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				



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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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#### **Radio Spectrum Technical Requirement** 6

### 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 a Loop Antenna, and the connection port is fixed with glue, and the antenna cannot be replaced.

Antenna location: Refer to Internal photos



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# 7 Radio Spectrum Matter Test Results

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

Test Requirement47 CFR Part 15, Subpart C 15.207Test Method:ANSI C63.10 (2013) Section 6.2

Limit:

	Limit (dBuV)				
Frequency range (MHz)	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.

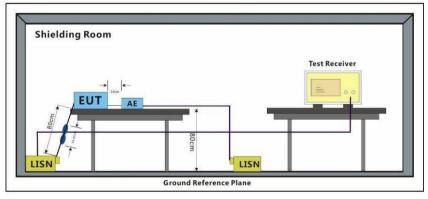
#### 7.1.1 E.U.T. Operation

Operating Enviro	nment:			
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	18	TX mode with modulation

#### 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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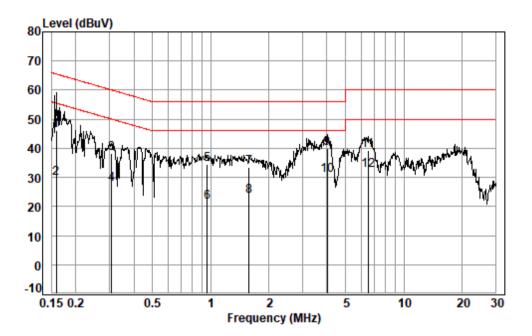
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Test Mode: 18: Line: Live line

: Shielding Room Site Condition: Line Job No. : 03959WM Test mode: 18

	Frea	Cable	LISN Factor	Read Level	Level	Limit Line	Over	Remark
	Freq	LUSS	ractor	Level	Level	LTHE		Nellidi K
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1590	0.06	10.18	35.73	45.97	65 52	-19.55	OP
2	0.1590	0.06	10.18	19.31	29.55			Average
3	0.3067	0.07	9.84	28.29	38.20		-21.86	-
4	0.3067	0.07	9.84	17.83	27.74	50.06	-22.32	Average
5	0.9582	0.09	9.59	24.75	34.43	56.00	-21.57	QP
6	0.9582	0.09	9.59	11.71	21.39	46.00	-24.61	Average
7	1.5851	0.10	9.58	23.88	33.56	56.00	-22.44	QP
8	1.5851	0.10	9.58	13.75	23.43	46.00	-22.57	Average
9*	4.0062	0.12	9.66	30.09	39.87	56.00	-16.13	QP
10 *	4.0062	0.12	9.66	21.11	30.89	46.00	-15.11	Average
11	6.5227	0.15	9.68	29.31	39.14	60.00	-20.86	QP
12	6.5227	0.15	9.68	22.46	32.29	50.00	-17.71	Average



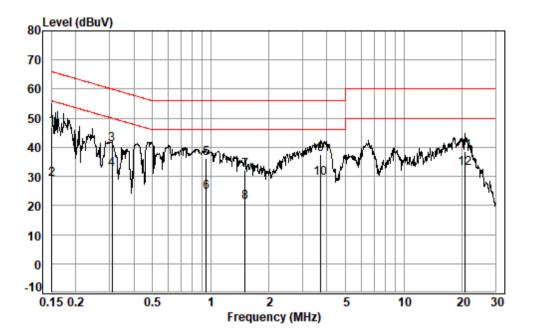
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Test Mode: 18: Line: Neutral Line

Site :	Shielding	Room
Condition:	Neutral	
Job No. :	03959WM	
Test mode:	18	

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1508	0.06	10.15	36.48	46.69	65.96	-19.27	QP
2	0.1508	0.06	10.15	18.70	28.91	55.96	-27.05	Average
3	0.3083	0.07	9.77	31.15	40.99	60.02	-19.03	QP
4	0.3083	0.07	9.77	22.43	32.27	50.02	-17.75	Average
5	0.9481	0.09	9.56	26.59	36.24	56.00	-19.76	QP
6	0.9481	0.09	9.56	14.80	24.45	46.00	-21.55	Average
7	1.5113	0.10	9.55	22.32	31.97	56.00	-24.03	QP
8	1.5113	0.10	9.55	11.35	21.00	46.00	-25.00	Average
9 *	3.7198	0.11	9.55	27.96	37.62	56.00	-18.38	QP
10 *	3.7198	0.11	9.55	19.63	29.29	46.00	-16.71	Average
11	20.8137	0.31	10.20	27.92	38.43	60.00	-21.57	QP
12	20.8137	0.31	10.20	22.14	32.65	50.00	-17.35	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

Temperature:

Operating Environment:

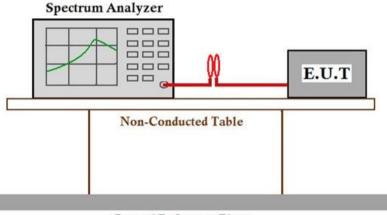
23.6 °C Humidity: 52.2 % RH

Atmospheric Pressure: 1020 mbar

### 7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	18	TX mode with modulation

#### 7.2.3 Test Setup Diagram



**Ground Reference Plane** 

### 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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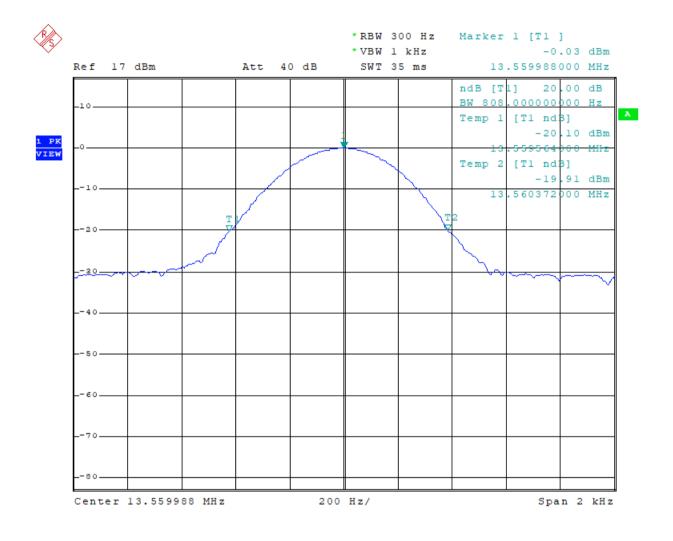
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### 7.3 Emission Mask

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 3m test distance is below:

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

where

$FS_{\text{limit}}$	is the calculation of field strength at the limit distance, expressed in $dB\mu V/m$
$FS_{max}$	is the measured field strength, expressed in $dB\mu V/m$
$d_{\text{measure}}$	is the distance of the measurement point from the EUT
$d_{\text{limit}}$	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 Enviro	nment:					
Temperature:	23.1 °C	Humidity:	50.6 % RH	Atmospheric Pressure:	1020	mbar



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#### 7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	18	TX mode with modulation

#### 7.3.3 Test Setup Diagram

EUT	0.6m Loop Antenna 3m or 10m
Turntable Groun	nd Reference Plane
	Test Receiver

#### 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.



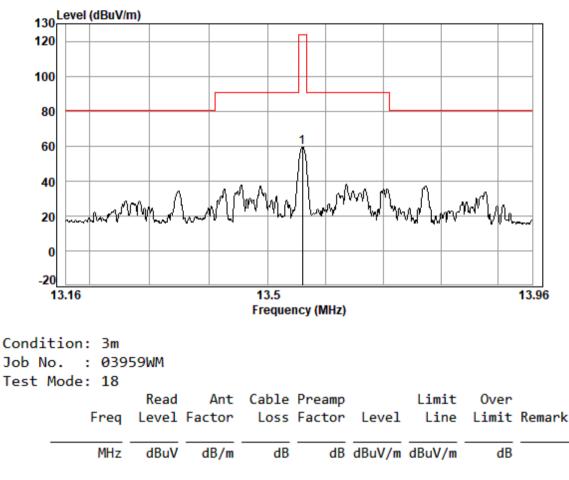
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### 7.4 Frequency tolerance

Test Requirement	47 CFR Part 15, Subpart C 15.225(e)
Test Method:	ANSI C63.10 (2013) Section 6.8

Limit: ±0.01%

#### 7.4.1 E.U.T. Operation

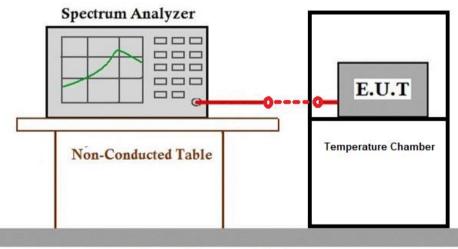
Operating Environment:

Temperature: 23.6 °C Humidity: 52.3 % RH Atmospheric Pressure: 1020 mbar

#### 7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	18	TX mode with modulation

### 7.4.3 Test Setup Diagram



**Ground Reference Plane** 

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#### 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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Declared Frequency (MHz)		13.56MHz		@10 minutes		
Temperature (°C)	Voltage(Vdc)	Measurement Frequency(MHz)	Frequency Tolerance (%)	Limit (%)	Result	
50		13.559227	-0.005702		Pass	
40		13.559741	-0.001909	±0.01	Pass	
30	3.92	13.559116	-0.006520		Pass	
20		13.559332	-0.004929		Pass	
10		13.559578	-0.003112		Pass	
0		13.559399	-0.004434		Pass	
-10		13.559815	-0.001368		Pass	
-20		13.559213	-0.005805	- - -	Pass	
20	3.4	13.559238	-0.005616		Pass	
20	4.53	13.559067	-0.006882		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&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

#### 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: 23.1 °C Humidity: 50.6 % RH

Atmospheric Pressure: 1020 mbar



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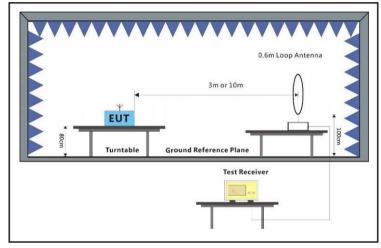
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#### 7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	18	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.



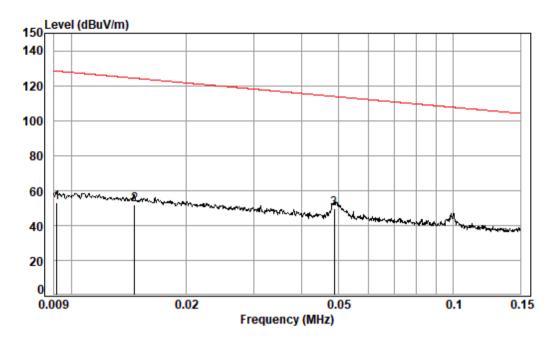
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Condition: 3m Job No. : 03959WM Test Mode: 18

Fre	Read eq Level	Ant Factor				Limit Line		Remark
M	lz dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
2 0.03	09 64.84 15 66.92 19 70.62	16.13	0.34	31.21	52.18	124.27	-72.09	Average



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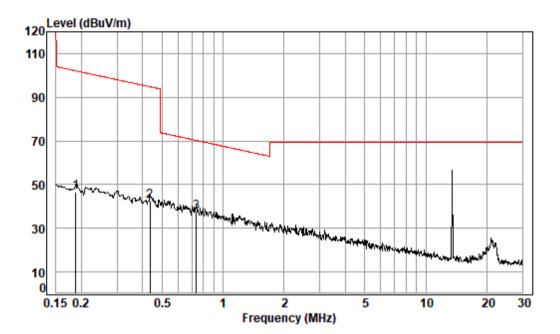
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Condition: 3m Job No. : 03959WM Test Mode: 18

	Freq		Ant Factor						Remark
_	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 2 av 3 pp	0.437	64.11		0.37	32.50	42.36	94.79	-52.43	Average Average QP



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### 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 6.4&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.

#### 7.6.1 E.U.T. Operation

**Operating Environment:** 

•	0						
Temper	ature:	23.1 °C	Humidity:	50.6 % RH	Atmospheric Pressure:	1020	mbar

#### 7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	18	TX mode with modulation



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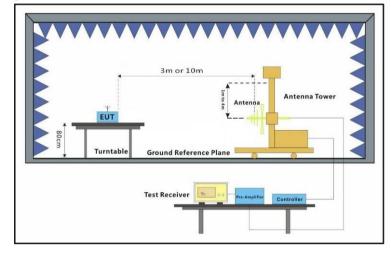
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#### 7.6.3 Test Setup Diagram



#### 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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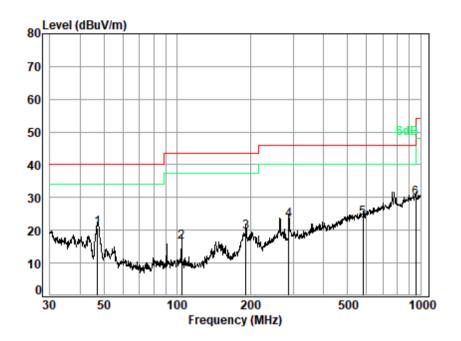
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Test Mode: 18; Polarity: Horizontal



Site :	chamber
Condition:	3m HORIZONTAL
Job No. :	03959WM
Test Mode:	18

	Freq	Ant Factor		Preamp Factor					Remark
_									
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	47.160	13.59	0.84	27.74	33.93	20.62	40.00	-19.38	QP
2	104.170	12.22	1.25	27.57	30.65	16.55	43.50	-26.95	QP
3	191.745	14.26	1.73	27.20	30.70	19.49	43.50	-24.01	QP
4	287.990	16.98	2.16	26.80	30.69	23.03	46.00	-22.97	QP
5	580.703	23.95	3.18	27.89	24.54	23.78	46.00	-22.22	QP
6 q	955.438	28.10	4.27	26.37	23.75	29.75	46.00	-16.25	QP



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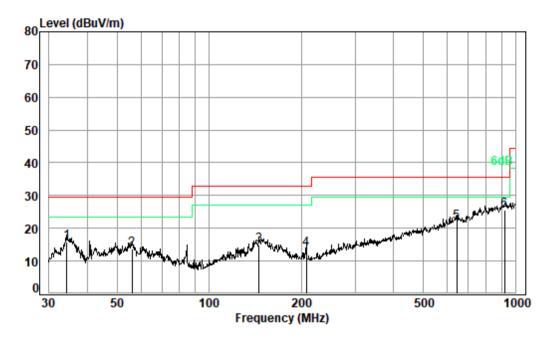
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Test Mode: 18; Polarity: Horizontal



Condition: 10m HORIZONTAL Job No. : 03959WM Test Mode: 18

	Freq		Ant Factor						Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	34.276	31.41	16.39	0.45	32.50	15.75	29.50	-13.75	QP
2	56.001	27.89	17.80	0.56	32.48	13.77	29.50	-15.73	QP
3	145.351	29.02	17.53	0.93	32.50	14.98	33.00	-18.02	QP
4	207.850	30.93	14.01	1.17	32.49	13.62	33.00	-19.38	QP
5	642.861	27.93	24.58	2.18	32.71	21.98	35.60	-13.62	QP
6 pp	922.516	26.76	27.81	2.66	31.64	25.59	35.60	-10.01	QP



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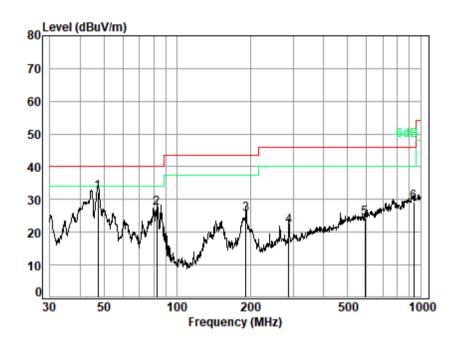
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Test Mode: 18; Polarity: Vertical



Site :	chamber
Condition:	3m VERTICAL
Job No. :	03959WM
Test Mode:	18

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	47.326	13.53	0.84	27.74	45.60	32.23	40.00	-7.77	QP
2	82.648	10.69	1.11	27.64	43.14	27.30	40.00	-12.70	QP
3	191.745	14.26	1.73	27.20	36.90	25.69	43.50	-17.81	QP
4	287.990	16.98	2.16	26.80	29.64	21.98	46.00	-24.02	QP
5	590.974	24.44	3.21	27.93	24.60	24.32	46.00	-21.68	QP
6	938.833	28.15	4.22	26.49	23.38	29.26	46.00	-16.74	QP



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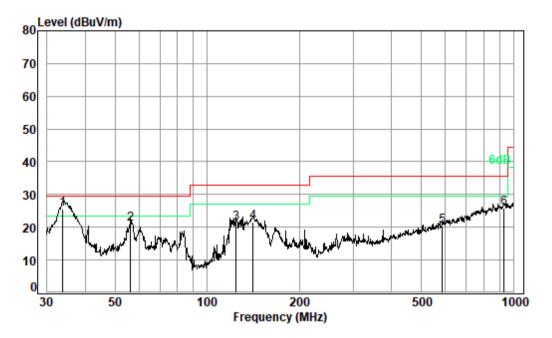
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Test Mode: 18; Polarity: Vertical



Condition: 10m VERTICAL Job No. : 03959WM

Test Mode: 18

	-		Ant						
	Freq	Level	Factor	LOSS	Factor	Level	Line	Limit	Kemark
_	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 pp	33.799	41.22	16.29	0.44	32.50	25.45	29.50	-4.05	QP
2	56.197	35.23	17.78	0.56	32.48	21.09	29.50	-8.41	QP
3	124.133	37.28	15.71	0.85	32.50	21.34	33.00	-11.66	QP
4	141.330	35.89	17.31	0.92	32.50	21.62	33.00	-11.38	QP
5	586.844	27.56	23.60	2.08	32.79	20.45	35.60	-15.15	QP
6	932.272	26.77	27.94	2.66	31.57	25.80	35.60	-9.80	QP



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#### **Test Setup Photo** 8

Please refer to SZCR2410003959 Appendix\_Setup Photo.

#### **EUT Constructional Details (EUT Photos)** 9

Refer to Appendix - External and Internal Photos for SZCR2410003959WM

- End of the Report -



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