

Report No.: SZEM200800862401

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TEST REPORT

Application No.:SZEM2008008624CRApplicant:Motorola Mobility LLC

Address of Applicant: 222 W Merchandise Mart Plaza, Suite 1800, Chicago IL 60654, USA

Manufacturer: Motorola Mobility LLC

Address of Manufacturer: 222 W Merchandise Mart Plaza, Suite 1800, Chicago IL 60654, USA

Equipment Under Test (EUT):

EUT Name: Mobile phone

Model No.: XT2091-3/XT2091-8
Trade Mark: Motorola/lenovo
FCC ID: IHDT56ZK2

Standard(s): 47 CFR Part 15, Subpart C 15.225

Date of Receipt: 2020-08-31

Date of Test: 2020-08-31 to 2020-09-14

Date of Issue: 2020-09-14

Test Result: Pass*

Keny Xu EMC Laboratory Manager

Ceny. Ku



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



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	Revision Record						
Version	Chapter	Date	Modifier	Remark			
01		2020-09-14		Original			

Authorized for issue by:		
	larens	
	Leo Lai /Project Engineer	_
	EvicFu	
	Eric Fu/Reviewer	-



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Test Summary 2

Radio Spectrum Technical Requirement						
Item	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	
20dB Bandwidth	47 CFR Part 15, Subpart C 15.225	ANSI C63.10 (2013) Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass	
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	
Conducted Emissions at Mains Terminals (9kHz-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	
Emission Mask	47 CFR Part 15, Subpart C 15.225	ANSI C63.10 (2013) Section 6.4	47 CFR Part 15, Subpart C 15.225(a)&(b)&(C)	Pass	
Frequency tolerance	47 CFR Part 15, Subpart C 15.225	ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart C 15.225(e)	Pass	
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15, Subpart C 15.225	ANSI C63.10 (2013) Section 6.4&6.5	47 CFR Part 15, Subpart C 15.225(d) & 15.209	Pass	
Radiated Emissions (9kHz-30MHz)	47 CFR Part 15, Subpart C 15.225	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

4.1 Details of E.U.T.

Power Supply	DC 3.8V from internal rechargeable battery and which can be charge by AC/DC adapter
Operation Frequency:	13.56MHz
Modulation Type:	ASK
Antenna Type:	Loop Antenna

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
20dB Bandwidth	± 3%
Conducted Emissions at Mains Terminals (150kHz-30MHz)	± 3.0dB
Conducted Emissions at Mains Terminals (9kHz-30MHz)	± 3.0dB
Emission Mask	± 4.5dB (Below 1GHz)
Frequency tolerance	± 3%
Radiated Emissions (30MHz-1GHz)	± 4.5dB (Below 1GHz)
Radiated Emissions (9kHz-30MHz)	± 4.5dB (Below 1GHz)

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.



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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

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. 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

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	ZhaoXin	PS-3005D	SEM011-05	2019-09-24	2020-09-23
Spectrum Analyzer (20Hz-43GHz)	Rohde & Schwarz	FSU43	SEM004-08	2020-04-01	2021-03-31
Signal Generator (9kHz-40GHz)	KEYSIGHT	N5173B	SEM006-05	2019-09-28	2020-09-27
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.6	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA- 50-1	SEM021-09	N/A	N/A
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2020-03-25	2021-03-24

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	2020-03-24	2021-03-23	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM024-01	2020-07-10	2021-07-09	
LISN	Rohde&Schwarz	ENV216	SEM007-01	2019-09-24	2020-09-23	
LISN	ETS-LINDGREN	3816/2	SEM007-02	2020-04-01	2021-03-31	

Emission Mask					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018-03-31	2021-03-30
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2019-12-16	2020-12-15
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2019-08-08	2022-08-07
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2020-04-09	2021-04-08
Loop Antonno	ETC Linderen	0500	CEM002.00	2017-08-22	2020-08-21
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2020-08-20	2021-08-19
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A



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Coaxial Cable	SGS	N/A	SEM029-01	2020-07-10	2021-07-09					
Radiated Emissions (30	Radiated Emissions (30MHz-1GHz)									
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date					
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018-03-31	2021-03-30					
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2019-12-16	2020-12-15					
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2019-08-08	2022-08-07					
Pre-amplifier	Pre-amplifier Sonoma Instrument Co 310N		SEM005-04	2020-04-09	2021-04-08					
Loop Antonno	CTC Lindaron	6502	SEM003-08	2017-08-22	2020-08-21					
Loop Antenna	ETS-Lindgren	0002	SEIVI003-08	2020-08-20	2021-08-19					
Measurement Software AUDIX e3 V8.2014-6		e3 V8.2014-6- 27	N/A	N/A	N/A					
Coaxial Cable	SGS	N/A	SEM029-01	2020-07-10	2021-07-09					

Radiated Emissions (9k	Radiated Emissions (9kHz-30MHz)								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date				
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018-03-31	2021-03-30				
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2019-12-16	2020-12-15				
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2019-08-08	2022-08-07				
Pre-amplifier	re-amplifier Sonoma Instrument Co		SEM005-04	2020-04-09	2021-04-08				
Loop Antonno	CTC Lindaron	6502	SEM003-08	2017-08-22	2020-08-21				
Loop Antenna	ETS-Lindgren	0002	SEIVI003-06	2020-08-20	2021-08-19				
Measurement Software AUDIX		e3 V8.2014-6- 27	N/A	N/A	N/A				
Coaxial Cable	SGS	N/A	SEM029-01	2020-07-10	2021-07-09				

General used equipment								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2019-09-26	2020-09-25			
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2019-09-26	2020-09-25			
Humidity/ Temperature Indicator Mingle		N/A	SEM002-08	2019-09-26	2020-09-25			
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2020-04-07	2021-04-06			



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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 antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an 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 on the product and no consideration of replacement. Antenna location: Refer to Internal photos.



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7 Radio Spectrum Matter Test Results

7.1 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.225 Test Method: ANSI C63.10 (2013) Section 6.9

7.1.1 E.U.T. Operation

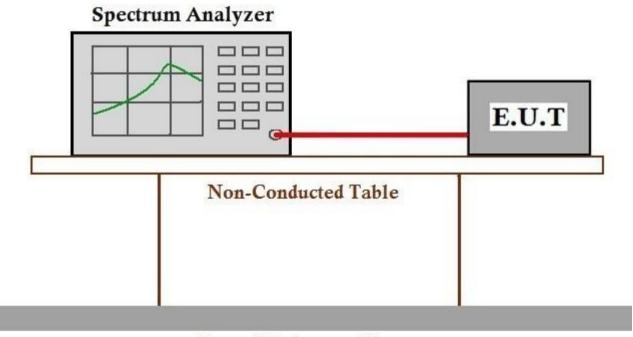
Operating Environment:

Temperature: 22.3 °C Humidity: 52.9 % RH Atmospheric Pressure: 1000 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in charging and transmitting with modulation mode.

7.1.3 Test Setup Diagram



Ground Reference Plane

7.1.4 Measurement Procedure and Data



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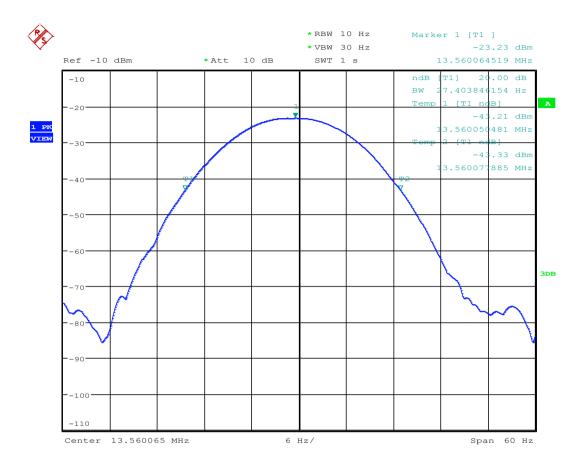
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7.2 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.225 Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Fraguency range (MUZ)	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.

7.2.1 E.U.T. Operation

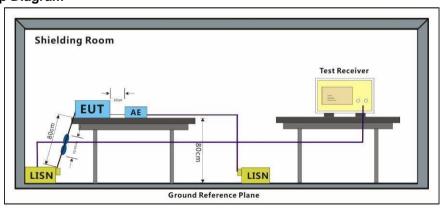
Operating Environment:

Temperature: 23 °C Atmospheric Pressure: 1000 mbar Humidity: 56 % RH

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in charging and transmitting with modulation mode.

7.2.3 Test Setup Diagram





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



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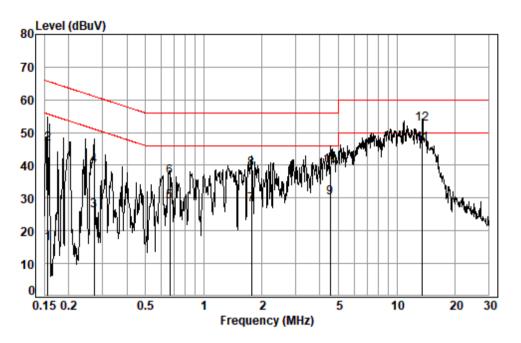
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Test Mode: 00; Line: Live line



: Shielding Room

Condition: Line Job No. : 08624CR

Test mode: 00

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1557	0.01	9.68	6.39	16.08	55.69	-39.61	Average
2	0.1557	0.01	9.68	36.75	46.44	65.69	-19.25	QP
3	0.2715	0.03	9.68	16.44	26.15	51.07	-24.92	Average
4	0.2715	0.03	9.68	30.00	39.71	61.07	-21.36	QP
5	0.6683	0.07	9.69	19.22	28.98	46.00	-17.02	Average
6	0.6683	0.07	9.69	26.77	36.53	56.00	-19.47	QP
7	1.7716	0.15	9.74	17.96	27.85	46.00	-18.15	Average
8	1.7716	0.15	9.74	28.92	38.81	56.00	-17.19	QP
9	4.5254	0.17	9.81	20.14	30.12	46.00	-15.88	Average
10	4.5254	0.17	9.81	29.89	39.87	56.00	-16.13	QP
11	13.5509	0.20	10.44	35.77	46.41	50.00	-3.59	Average
12	13.5509	0.20	10.44	42.13	52.77	60.00	-7.23	QP



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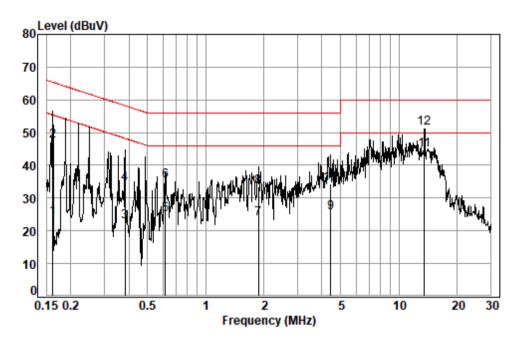
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Test Mode: 00; Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 08624CR

Test mode: 00

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1615	0.01	9.66	14.49	24.16	55.38	-31.22	Average
2	0.1615	0.01	9.66	37.64	47.31	65.38	-18.07	QP
3	0.3832	0.05	9.67	13.04	22.76	48.21	-25.45	Average
4	0.3832	0.05	9.67	24.62	34.34	58.21	-23.87	QP
5	0.6205	0.07	9.68	15.07	24.82	46.00	-21.18	Average
6	0.6205	0.07	9.68	25.54	35.29	56.00	-20.71	QP
7	1.8779	0.15	9.73	13.80	23.68	46.00	-22.32	Average
8	1.8779	0.15	9.73	23.50	33.38	56.00	-22.62	QP
9	4.4540	0.16	9.82	15.54	25.52	46.00	-20.48	Average
10	4.4540	0.16	9.82	24.29	34.27	56.00	-21.73	QP
11	13.5606	0.20	10.51	34.03	44.74	50.00	-5.26	Average
12	13.5606	0.20	10.51	40.60	51.31	60.00	-8.69	QP



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7.3 Emission Mask

Test Requirement 47 CFR Part 15, Subpart C 15.225 Test Method: ANSI C63.10 (2013) Section 6.4

Measurement Distance: 10m

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 test was performed at a 10m test site.

The factor calculated by the following equation:

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

where

is the calculation of field strength at the limit distance, expressed in dBuV/m

 FS_{mon} is the measured field strength, expressed in dBµV/m is the distance of the measurement point from the EUT $d_{\rm measure}$ is the reference distance or the distance of the $\lambda/2\pi$ point $d_{\rm limit}$

The limit at 10m test distance is below:

The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 103.08 dBuV/m at 10 meters.

7.3.1 E.U.T. Operation

Operating Environment:

Humidity: 52 % RH Temperature: 23 °C Atmospheric Pressure: 1000 mbar



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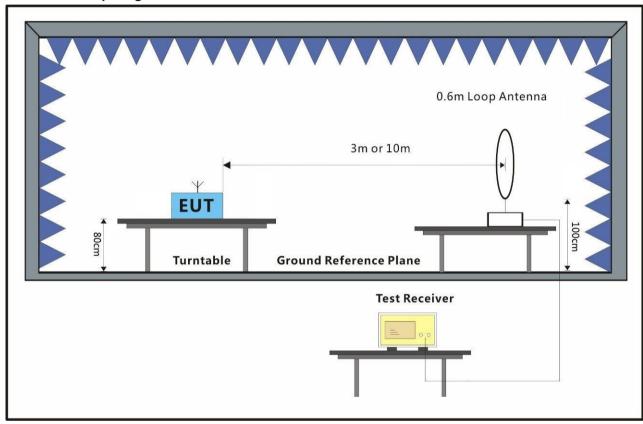
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7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in charging and transmitting with modulation 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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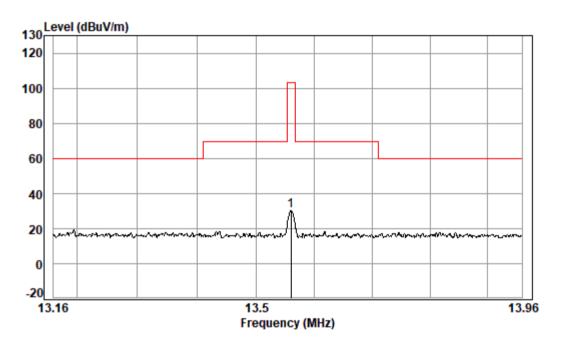
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Mode 00:



Condition: 10m Job No. : 08624CR

Test Mode: 00

0ver Ant Preamp Cable Limit Read Freq Factor Factor Loss Line Limit Remark Level Level dBuV dBuV/m dBuV/m MHz dB/m 8.88 32.35 0.00 53.68 30.21 103.08 -72.87 QP 1 pp 13.560



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Below 30MHz

The test was performed at a 10m test site.

The level at 30m test distance is below:

The factor calculated by the following equation:

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

where

is the calculation of field strength at the limit distance, expressed in dBµV/m FS_{limit}

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

Frequency (MHz)	Cable loss (dB)	ANT Factor (dB)	Preamp Factor (dB)	Read Level @ 10m (dBuV)	Level @ 10m (dBuV/m)	Level @ 30m (dBuV/m)	Limit @ 30m (dBuV/m)	Margin (dB)
13.56	0	8.88	32.35	53.68	30.21	11.13	84.00	-72.87



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7.4 Frequency tolerance

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

Limit:

±0.01

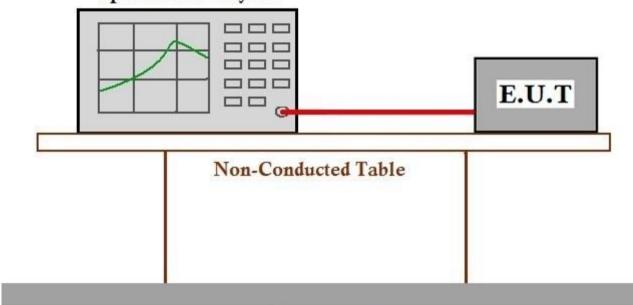
7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Atmospheric Pressure: 1005 mbar Humidity: 45 % RH

7.4.2 Test Setup Diagram

Spectrum Analyzer



Ground Reference Plane

7.4.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in charging and transmitting with modulation mode.



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7.4.4 Measurement Procedure and Data

Declared Frequency (MHz)	13.56MHz
--------------------------	----------

Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Frequency Tolerance (%)	Limit (%)	Result
50		13.5600599	0.0004		Pass
40		13.5600615	0.0005		Pass
30		13.5600645	0.0005		Pass
20	3.70	13.5600681	0.0005		Pass
10	3.70	13.5600599	0.0004	.0.01	Pass
0		13.5600725	0.0005	±0.01	Pass
-10		13.5600806	0.0006		Pass
-20		13.5600889	0.0007		Pass
20	4.26	13.5600691	0.0005		Pass
	3.15	13.5600577	0.0004		Pass

Test Mode: Frequency; Modulation:O-QPSK



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7.5 Radiated Emissions (30MHz-1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.225
Test Method: ANSI C63.10 (2013) Section 6.4&6.5

Measurement Distance: 10m

Limit:

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. 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.
- e. 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.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. 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.
- h. 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 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, 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. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 53 % RH Atmospheric Pressure: 1000 mbar



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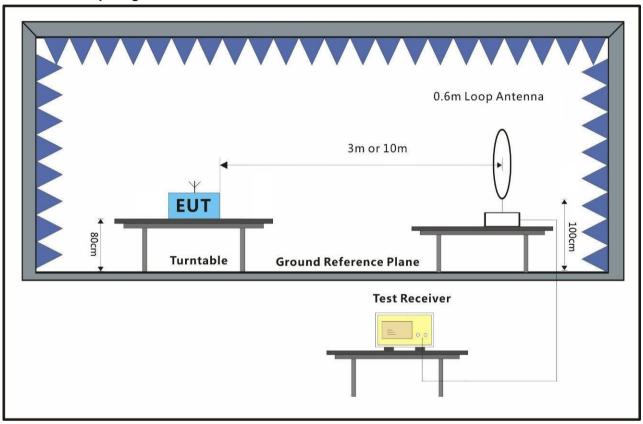
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7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in charging and transmitting with modulation mode.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data



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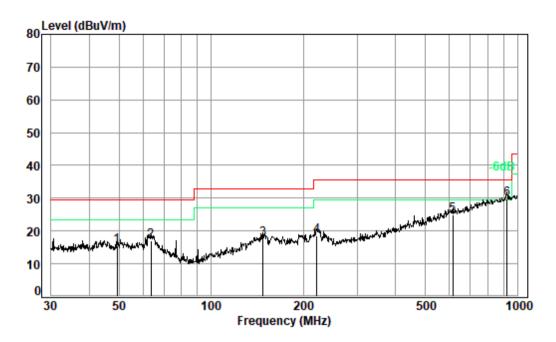
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Test Mode: 00; Polarity: Horizontal



Condition: 10m HORIZONTAL

Job No. : 08624CR

Test Mode: 00



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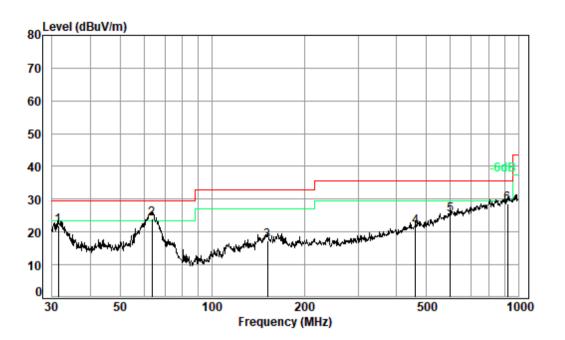
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Test Mode: 00; Polarity: Vertical



Condition: 10m VERTICAL

Job No. : 08624CR

Test Mode: 00



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The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

 $L_3 / L_{10} = D_{10} / D_3$

Note:

L₃: Level @ 3m distance. Unit: uV/m; L₁₀: Level @ 10m distance. Unit: uV/m;

D₃: 3m distance. Unit: m D₁₀: 10m distance. Unit: m

The level at 3m test distance is below:

Mode m:

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization
31.51	21.92	12.47	41.58	32.38	40.00	-7.62	V
63.54	24.04	15.92	53.07	34.50	40.00	-5.50	V
151.60	17.47	7.47	24.91	27.93	43.50	-15.57	V
460.73	21.47	11.84	39.48	31.93	46.00	-14.07	V
599.32	25.32	18.45	61.50	35.78	46.00	-10.22	V
922.52	28.59	26.88	89.61	39.05	46.00	-6.95	V
49.36	15.45	5.92	19.74	25.91	40.00	-14.09	Н
63.54	16.94	7.03	23.44	27.40	40.00	-12.60	Н
147.92	17.54	7.53	25.11	28.00	43.50	-15.50	Н
221.39	18.61	8.52	28.40	29.07	46.00	-16.93	Н
614.21	24.95	17.68	58.94	35.41	46.00	-10.59	Н
925.76	29.96	31.48	104.92	40.42	46.00	-5.58	Н



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7.6 Radiated Emissions (9kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.225 15.225 Test Method: ANSI C63.10 (2013) Section 6.4&6.5

Measurement Distance: 10m

Limit:

Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
30MHz-88MHz	100	40.0	Quasi-peak	3
88MHz-216MHz	150	43.5	Quasi-peak	3
216MHz-960MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 52 % RH Atmospheric Pressure: 1000 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in charging and transmitting with modulation mode.



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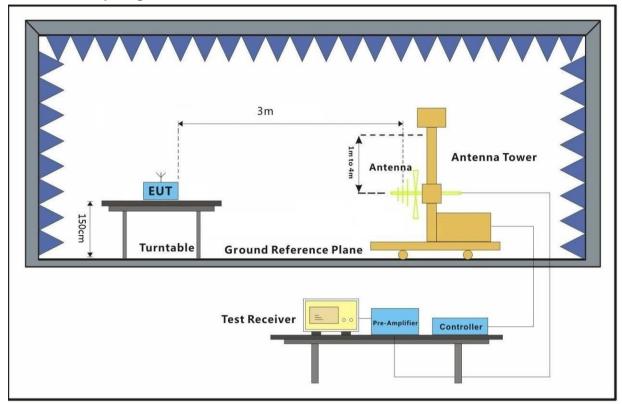
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7.6.3 Test Setup Diagram



7.6.4 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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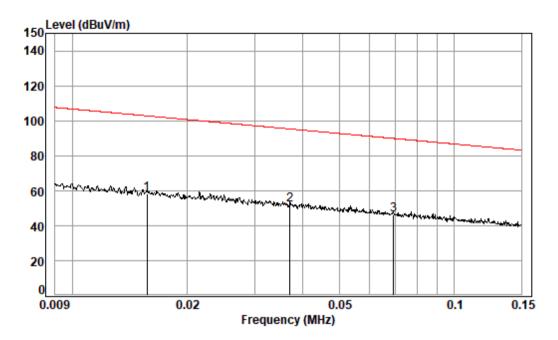
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9k-150kHz



Condition: 10m Job No. : 08624CR

Test Mode: 00

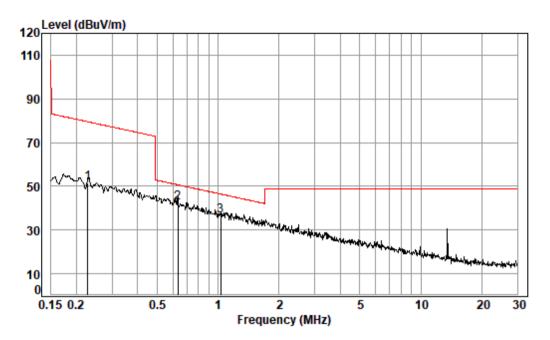




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150k-30MHz



Condition: 10m Job No. : 08624CR

Test Mode: 00

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

Frequency (MHz)	Level @ 10m	Limit @ 300m	Limit @ 30m	Factor (dB)	Level @ 300m	Level @ 30m (dBuV/m)	Margin (dB)
	(dBuV/m)	(dBuV/m)	(dBuV/m)		(dBuV/m)		
0.02	58.20	43.52	-	59.08	-0.88	·	-44.41
0.04	51.83	36.24	ı	59.08	-7.25	ī	-43.50
0.07	46.46	30.83	1	59.08	-12.62	ī	-43.45
0.23	51.68	20.45	-	59.08	-7.40	1	-27.85
0.63	42.37	31.56	-	19.08	-	12.48	-8.28
1.03	36.40	27.33	-	19.08	-	8.25	-10.02



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Test Setup Photo

Please refer to setup photos.

EUT Constructional Details (EUT Photos) 9

Please refer to external and internal photos for details.

- End of the Report -



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