

Report No.: SZEM200100010803

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TEST REPORT

Application No.: SZEM2001000108CR Applicant: ZKTECO CO..LTD.

Address of Applicant: No.26, Pingshan 188 Industry zone, Tangxia Town, Dongguan

City, Guangdong Province, China 523728

Manufacturer: ZKTECO CO..LTD.

Address of Manufacturer: No.26, Pingshan 188 Industry zone, Tangxia Town, Dongguan

City, Guangdong Province, China 523728

ZKTECO CO.,LTD. Factory:

No.26, Pingshan 188 Industry zone, Tangxia Town, Dongguan Address of Factory:

City, Guangdong Province, China 523728

Equipment Under Test (EUT):

EUT Name: Smart Identification Terminal Model No.: MB560-VL, MB40-VL

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

FCC ID: 2AJ9T-MBM

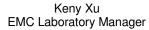
47 CFR Part 15, Subpart C 15.225 Standard(s):

2020-01-03 **Date of Receipt:**

2020-01-03 to 2020-05-28 Date of Test:

Date of Issue: 2020-06-01

Pass* **Test Result:**



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	Version Chapter Date Modifier Remai						
01		2020-06-01		Original			

Authorized for issue by:		
	Damon Su	
	Damon Su /Project Engineer	
	EvicFu	
	Eric Fu /Reviewer	



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Test Summary 2

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 AC Power Line (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	47 CFR Part 15, Subpart C 15.225	ANSI C63.10 (2013) Section 6.9	47 CFR Part 15, Subpart C 15.215	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(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		
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		

Declaration of EUT Family Grouping:

Model No.: MB560-VL, MB40-VL

Only the model MB560-VL was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on model.



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General Information

4.1 Details of E.U.T.

Power Supply:	DC 12V 1.5A
	Adapter Model: ADS-26FSG-12 12018EPG
	Input: AC 100-240V 50/60Hz
	Output: DC 12V 1.5A.
Operation Frequency:	13.56MHz
Modulation Type:	ASK
Antenna Type:	Loop Antenna

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	± 7.25 x 10 ⁻⁸
2	Duty cycle	± 0.37%
3	Occupied Bandwidth	± 3%
4	Conduction emission	± 3.0dB (150kHz to 30MHz)
5	RF conducted power	± 0.75dB
6	RF power density	± 2.84dB
7	Conducted Spurious emissions	± 0.75dB
8	DE Dodieted power	± 4.5dB (Below 1GHz)
0	RF Radiated power	± 4.8dB (Above 1GHz)
9	Dadiated Courieus emission test	± 4.5dB (Below 1GHz)
9	Radiated Spurious emission test	± 4.8dB (Above 1GHz)
10	Temperature test	± 1 ℃
11	Humidity test	± 3%
12	Supply voltages	± 1.5%
13	Time	± 3%



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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.

· VCC

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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Equipment List 5

Conducted Emissions at AC Power Line (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	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM024-01	2019-07-11	2020-07-10	
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	
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2020-03-24	2021-03-23	

20dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10

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
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2019-07-11	2020-07-10
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

Frequency tolerance					
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	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A



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Coaxial Cable SGS	N/A SE	EM031-02 2019-07-11	2020-07-10
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Radiated Emissions(9kHz-30MHz)							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018-03-31	2021-03-30		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM029-01	2019-07-11	2020-07-10		
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		
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21		

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	2017-08-05	2020-08-04		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM025-01	2019-07-11	2020-07-10		
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-15	2019-12-16	2020-12-15		
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2017-06-27	2020-06-26		
Pre-amplifier	Agilent Technologies	8447D	SEM005-01	2020-04-01	2021-03-31		

General used equipmen	t				
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

Radio Spectrum Technical Requirement 6



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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 main PCB and no consideration of replacement.

Antenna location: Refer to Internal photos.



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Radio Spectrum Matter Test Results

Conducted Emissions at AC Power Line (150kHz-30MHz)

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

Limit:

Fraguency range (MUz)	Limit (c	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.



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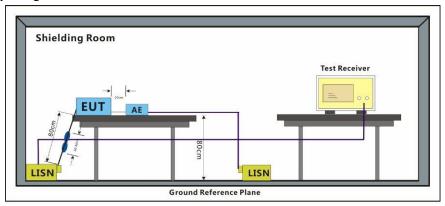
7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 21.6 °C Humidity: 52.9 % RH Atmospheric Pressure: 1020 mbar

Test mode b:TX mode_Keep the EUT in transmitting with modulation mode.

7.1.2 Test Setup Diagram



7.1.3 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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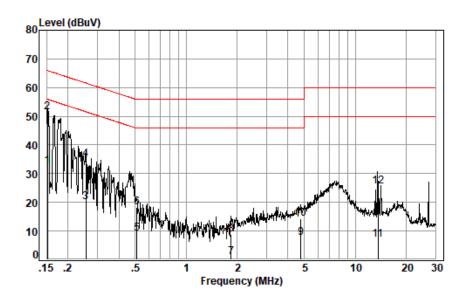
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Mode:b; Line:Live Line



: Shielding Room

Condition: Line Job No. : 00108CR

Test mode: b

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
4	0.4546	0.01	0.50	22.00	22.40	FF 01	22 42	A
1	0.1516	0.01	9.59	22.88	32.48	55.91	-23.43	Average
2	0.1516	0.01	9.59	41.88	51.48	65.91	-14.43	QP
3	0.2562	0.03	9.59	10.56	20.18	51.56	-31.38	Average
4	0.2562	0.03	9.59	25.25	34.87	61.56	-26.69	QP
5	0.5128	0.06	9.59	-0.43	9.22	46.00	-36.78	Average
6	0.5128	0.06	9.59	8.62	18.27	56.00	-37.73	QP
7	1.8483	0.15	9.62	-8.98	0.79	46.00	-45.21	Average
8	1.8483	0.15	9.62	-0.83	8.94	56.00	-47.06	QP
9	4.7716	0.17	9.67	-2.27	7.57	46.00	-38.43	Average
10	4.7716	0.17	9.67	4.33	14.17	56.00	-41.83	QP
11	13.6228	0.20	10.03	-3.20	7.03	50.00	-42.97	Average
12	13 6228	0 20	10 03	15 35	25 58	60 00	-3/ //2	OP



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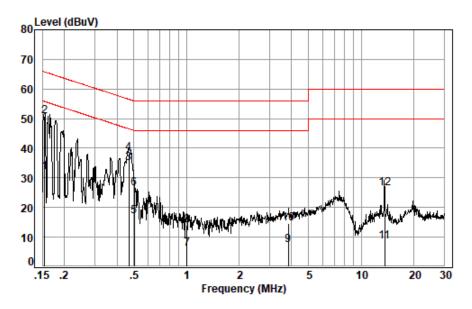
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Mode:b; Line:Neutral Line



: Shielding Room

Condition: Neutral Job No. : 00108CR

Test mode: b

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1540	0.01	9.55	22.46	32.02	55.78	-23.76	Average
2	0.1540	0.01	9.55	41.13	50.69	65.78	-15.09	QP
3	0.4686	0.06	9.54	25.40	35.00	46.54	-11.54	Average
4	0.4686	0.06	9.54	28.83	38.43	56.54	-18.11	QP
5	0.5020	0.06	9.54	7.45	17.05	46.00	-28.95	Average
6	0.5020	0.06	9.54	16.81	26.41	56.00	-29.59	QP
7	1.0050	0.09	9.55	-3.53	6.11	46.00	-39.89	Average
8	1.0050	0.09	9.55	4.48	14.12	56.00	-41.88	QP
9	3.8399	0.16	9.60	-2.31	7.45	46.00	-38.55	Average
10	3.8399	0.16	9.60	4.85	14.61	56.00	-41.39	QP
11	13.6228	0.20	10.18	-1.88	8.50	50.00	-41.50	Average
12	13.6228	0.20	10.18	16.01	26.39	60.00	-33.61	OP



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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

Limit: N/A

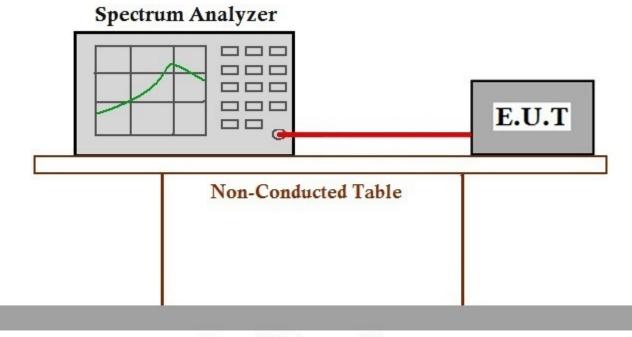
7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 45 % RH Atmospheric Pressure: 1020 mbar

Test mode b:TX mode Keep the EUT in transmitting with modulation mode.

7.2.2 Test Setup Diagram



Ground Reference Plane

7.2.3 Measurement Procedure and Data



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Span 60 Hz

Mode:b



6 Hz/



Center 13.55997115 MHz

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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: 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:

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

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 is the distance of the measurement point from the EUT d_{measure} is the reference distance or the distance of the $\lambda/2\pi$ point d_{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.



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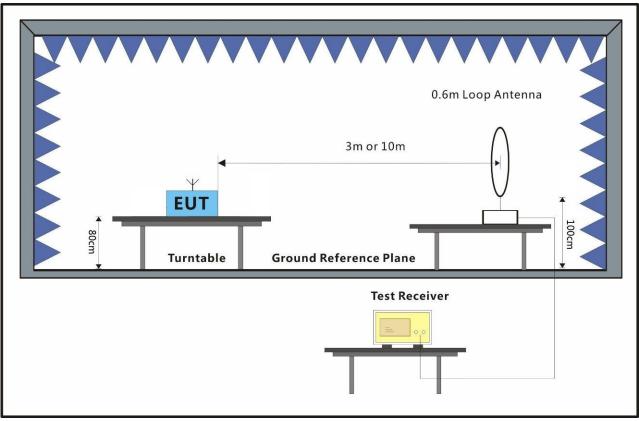
7.3.1 E.U.T. Operation

Operating Environment:

25 °C Temperature: Humidity: 45 % RH Atmospheric Pressure: 1020 mbar

Test mode b:TX mode_Keep the EUT in transmitting with modulation mode.

7.3.2 Test Setup Diagram



7.3.3 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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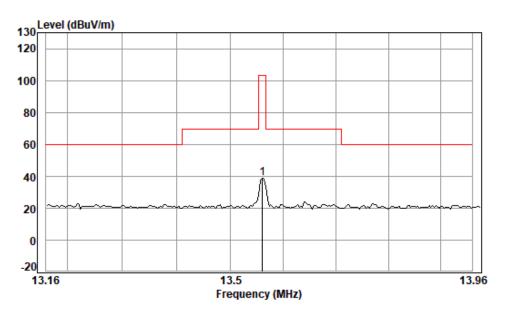
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Mode:b



Condition: 10m Job No. : 00108CR

Test Mode: b

	Freq		Preamp Factor						Remark	
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		-
1 pp	13.561	13.30	32.35	0.52	57.13	38.60	103.08	-64.48	OP.	



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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

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

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

Frequenc y (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	0.52	13. 3	32. 35	57. 13	38.60	19. 52	84.00	-64. 48



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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

Measurement Distance: 10m Limit: 1.356kHz

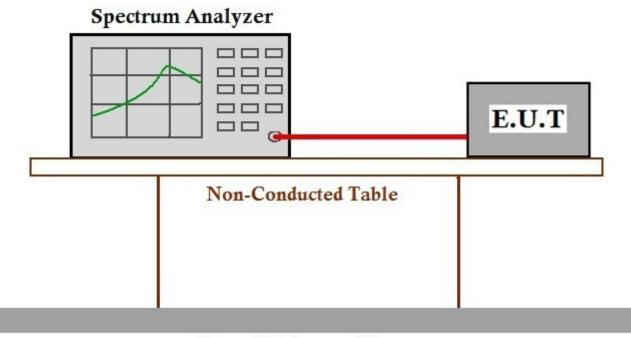
7.4.1 E.U.T. Operation

Operating Environment:

Temperature: Humidity: 45 % RH Atmospheric Pressure: 1020 mbar

Test mode b:TX mode_Keep the EUT in transmitting with modulation mode.

7.4.2 Test Setup Diagram



Ground Reference Plane

7.4.3 Measurement Procedure and Data



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Mode:b

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

Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Frequency Tolerance (%)	Limit (%)	Result
50		13.559737	-0.0019		Pass
40		13.559725	-0.0020		Pass
30		13.559726	-0.0020		Pass
20	100	13.559765	-0.0017		Pass
10	120	13.559767	-0.0017	10.01	Pass
0		13.559774	-0.0017	±0.01	Pass
-10		13.559773	-0.0017		Pass
-20		13.559736	-0.0019		Pass
00	138	13.559741	-0.0019		Pass
20	102	13.559752	-0.0018		Pass



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7.5 Radiated Emissions(9kHz-30MHz)

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

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

Measurement Distance: 10m

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
30-88	100	40.0	QP	3
88-216	150	43.5	QP	3
216-960	200	46.0	QP	3
960-1000	500	54.0	QP	3
Above 1000	500	54.0	AV	3

Below 30MHz

If field strength is measured at only a single point, then that point shall be at the radial from the EUT that produces the maximum emission at the frequency being measured, as described in 5.4. If that point is closer to the EUT than $\lambda/2\pi$ and the limit distance is greater than $\lambda/2\pi$, the measurement shall be extrapolated to the limit distance by conservatively presuming that the field strength decreases at a 40 dB/decade of distance rate to the $\lambda/2\pi$ distance, and at a 20 dB/decade of distance rate beyond $\lambda/2\pi$. This shall be accomplished using Equation (2):

$$FS_{(10m)} = FS_{(30/300m)} + 40log\{d_{(near field)}/d_{(10m)}\} + 20log\{d_{(30/300m)}/d_{(near field)}\}$$
(2)

If the single point measured is at a distance greater than $\lambda/2\pi$, then extrapolation to the limit distance shall be calculated using Equation (3):

$$FS_{(10m)} = FS_{(30/300m)} + 20log\{d_{(30/300m)}/d_{(10m)}\}$$
(3)

If both the single point and the limit distance are equal to or closer to the EUT than $\lambda/2\pi$, then extrapolation to the limit distance shall be calculated using Equation (4):

$$FS_{(10m)} = FS_{(30/300m)} + 40log\{d_{(30/300m)}/d_{(10m)}\}$$
(4)

Remark:

 $d_{\text{near field}} = 47.77 / f_{\text{MHz}}$

where f_{MHz} is the frequency of the emission being measured in MHz.



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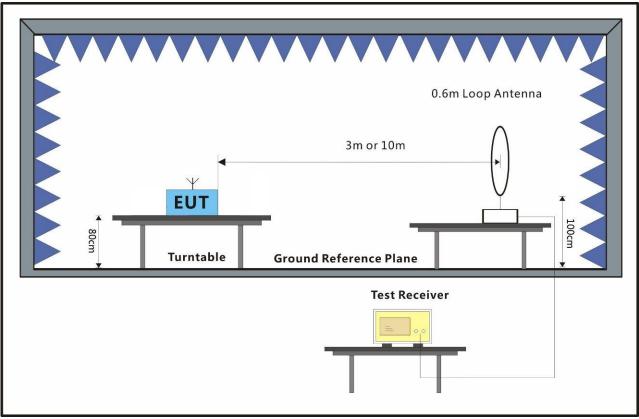
7.5.1 E.U.T. Operation

Operating Environment:

25 °C Temperature: Humidity: 45 % RH Atmospheric Pressure: 1020 mbar

Test mode b:TX mode_Keep the EUT in transmitting with modulation mode.

7.5.2 Test Setup Diagram



7.5.3 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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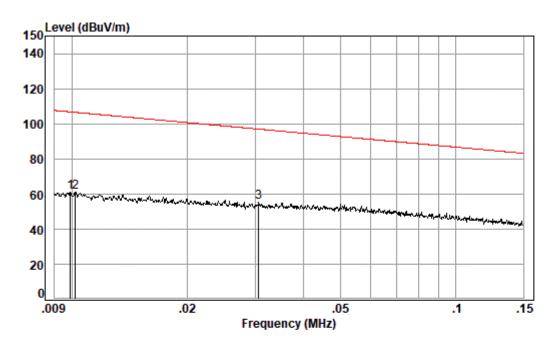
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Mode b: 9kHz-150kHz



Condition: 10m Job No. : 00108CR

Test Mode: b

	Freq		Preamp Factor						Remark	
_	MHz	dB/m	——dB	dB	dBuV	dBuV/m	dBuV/m	——dB		-
1	0.0099	20.98	30.63	1.02	69.66	61.03	106.77	-45.74	Average	
2	0.0102	20.78	30.66	0.97	69.92	61.01	106.50	-45.49	Average	
3 pp	0.031	15.47	31.39	0.01	71.16	55.25	96.97	-41.72	Average	



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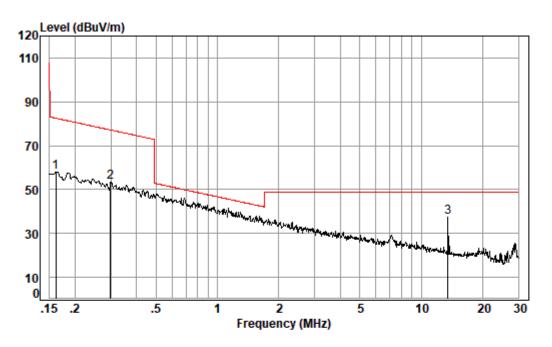
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150kHz-30MHz



Condition: 10m Job No. : 00108CR

Test Mode: b

	Freq		Preamp Factor						
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	0.162	13.93	32.21	0.02	76.21	57.95	82.52	-24.57	Average
2 av	0.299	13.80	32.23	0.04	71.63	53.24	77.18	-23.94	Average
3 pp	13.551	13.30	32.35	0.52	56.03	37.50	48.63	-11.13	QP



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Frequency (MHz)	Level @ 10m (dBuV/m)	Limit @ 300m (dBuV/m)	Limit @ 30m (dBuV/m)	Factor (dB)	Level @ 300m (dBuV/m)	Level @ 30m (dBuV/m)	Margin (dB)
0.0099	61.03	47.69	-	59.08	1.95	-	-45.74
0.0102	61.01	47.43	-	59.08	1.93	-	-45.50
0.031	55.25	37.78	-	59.08	-3.83	-	-41.61
0.162	57.95	23.41	-	59.08	-1.13	1	-24.54
0.299	53.24	18.09	-	59.08	-5.84	-	-23.93
13.551	37.50		29.54	19.08	-	18.42	-11.12

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

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

where

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

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



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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	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	

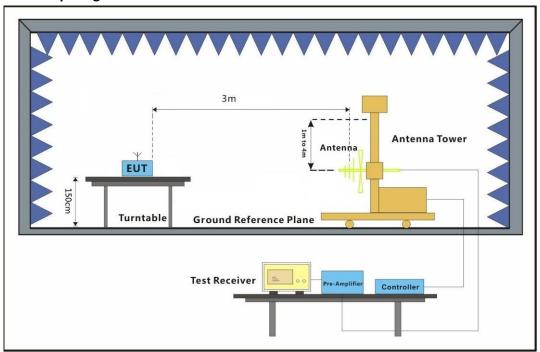
7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 26 °C 58.2 % RH Atmospheric Pressure: 1020 mbar Humidity:

Test mode b:TX mode_Keep the EUT in transmitting with modulation mode.

7.6.2 Test Setup Diagram





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7.6.3 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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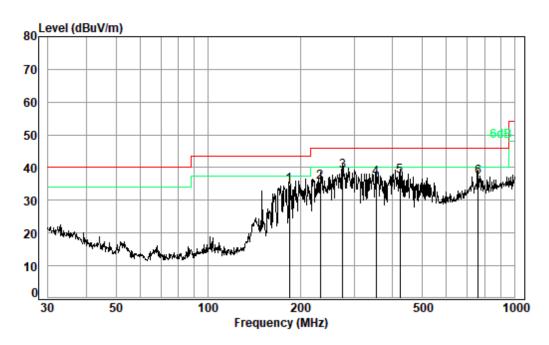
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Mode:b; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 00108CR

Test Mode: b

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	dB	
	11112	u.	ub/ III	ub.	aba.	abav, iii	abav, iii	u.b	
1	184.49	1.38	16.04	27.22	44.58	34.78	43.50	-8.72	QP
2	232.53	1.59	18.22	27.06	42.84	35.59	46.00	-10.41	QP
3 pp	275.16	1.79	18.87	26.95	45.36	39.07	46.00	-6.93	QP
4	352.94	2.07	21.18	27.19	40.85	36.91	46.00	-9.09	QP
5	423.54	2.30	22.96	27.53	39.73	37.46	46.00	-8.54	QP
6	760.70	3.09	28.27	27.80	33.67	37.23	46.00	-8.77	OP



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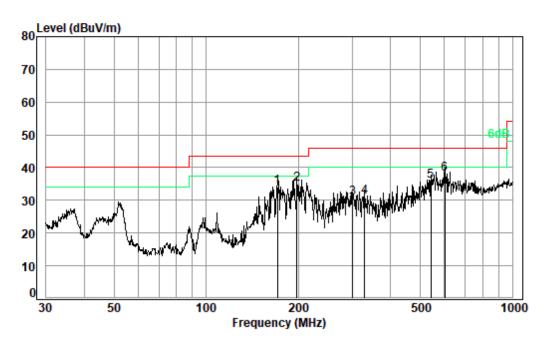
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Mode:b; Polarization:Vertical



Condition: 3m VERTICAL : 00108CR Job No.

Test Mode: b

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	170.79	1.35	15.72	27.27	44.40	34.20	43.50	-9.30	QP
2	197.89	1.40	16.44	27.17	44.16	34.83	43.50	-8.67	QP
3	301.42	1.90	19.65	26.90	35.96	30.61	46.00	-15.39	QP
4	329.04	2.00	20.50	27.06	35.62	31.06	46.00	-14.94	QP
5	541.37	2.64	25.47	27.98	35.65	35.78	46.00	-10.22	QP
6 pp	601.43	2.70	26.62	28.17	36.88	38.03	46.00	-7.97	OP



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8 **Photographs**

8.1 Test Setup

Refer to external and internal photos.

8.2 EUT Constructional Details (EUT Photos)

Refer to exteral and internal photos.

- End of the Report -



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