

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240800314203

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# TEST REPORT

**Application No.:** SZCR2408003142AT Applicant: ZKTECO CO., LTD.

**Address of Applicant:** No.32, Pingshan Industrial Avenue, Tangxia Town, Dongguan City,

Guangdong Province, China 523728

ZKTECO CO., LTD. Manufacturer:

Address of Manufacturer: No.32, Pingshan Industrial Avenue, Tangxia Town, Dongguan City,

Guangdong Province, China 523728

**Equipment Under Test (EUT):** 

**EUT Name: Smart Terminal** 

Model No.: SenseFace 2A. ProCapture-X

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

actually tested and which were electrically identical.

FCC ID: 2AJ9T-21009

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

**Date of Receipt:** 

2024-08-28 to 2024-09-19 Date of Test:

Date of Issue: 2024-09-23

Pass\* Test Result:

Keny Xu **EMC Laboratory Manager** 

Ceny. Ku



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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	Revision Record						
Version	n Chapter Date Modifier Re						
01		2024-09-23		Original			

Authorized for issue by:		
	Bolisonti	
	Edison Li/Project Engineer	-
	Exic Fu	
	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 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	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		

#### Remark:

Model No.: SenseFace 2A, ProCapture-X

Only the model SenseFace 2A was tested, since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, with only difference on model name.



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### **General Information**

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

Power supply:	Powered by DC 12V from external power supply
,	Model: ADS-26FSG-12 12018EPCU
	Input: AC 100-240V, 50/60Hz, Max 0.7A
	Output: DC 12V, 1.5A
Cable(s):	DC Cable from adapter 1.5m unshielded with one core
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.
RF Cable	SGS	N/A(Cable Loss:0.6dB)	N/A

### 4.3 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 10m

#### 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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#### 4.4 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	ESCI	SEM004-02	2024-03-14	2025-03-13	
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	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
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	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



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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	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	
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	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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General used equipmen	t				
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

### 6.1 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 on the main PCB and no consideration of replacement.

Antenna location: Refer to Internal photos



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#### **Radio Spectrum Matter Test Results** 7

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

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

Limit:

Fraguency ronge (MHz)	Limit (d	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

<sup>\*</sup> Decreases with the logarithm of the frequency.

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

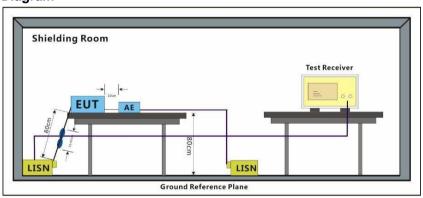
Operating Environment:

Temperature: Humidity: 45.5 % RH Atmospheric Pressure: 1020 mbar 23.5 °C

### 7.1.2 Test Mode Description

		·k			
Pre-scan / Final test	Mode Code	Description			
Final test	01	TX mode(13.56MHz)_Keep the EUT in transmitting mode			

#### 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
- 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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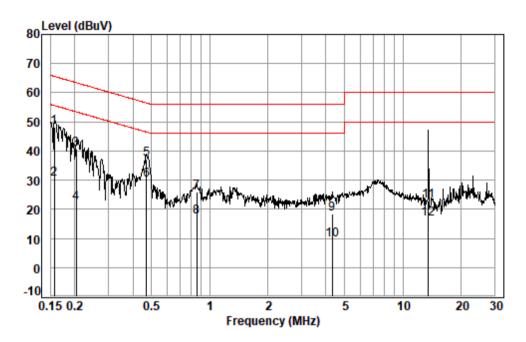


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Test Mode: 01: Line: Live line



: Shielding Room

Condition: Line Job No. : 03142AT

Test mode: 01

			Cable	LISN	Read		Limit	0ver	
		Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	-								
		MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	*	0.1573	0.06	9.89	38.07	48.02	65 60	-17.58	ΩP
2		0.1573	0.06	9.89	20.48	30.43			•
									Average
3		0.2040	0.06	9.93	30.56	40.55	63.45	-22.90	QP
4		0.2040	0.06	9.93	12.04	22.03	53.45	-31.42	Average
5		0.4711	0.08	10.00	27.29	37.37	56.49	-19.12	QP
6	*	0.4711	0.08	10.00	19.82	29.90	46.49	-16.59	Average
7		0.8573	0.09	10.03	15.78	25.90	56.00	-30.10	QP
8		0.8573	0.09	10.03	7.10	17.22	46.00	-28.78	Average
9		4.3146	0.12	10.03	8.25	18.40	56.00	-37.60	QP
10		4.3146	0.12	10.03	-0.48	9.67	46.00	-36.33	Average
11		13.5509	0.24	10.23	12.28	22.75	60.00	-37.25	QP
12		13.5509	0.24	10.23	6.24	16.71	50.00	-33.29	Average



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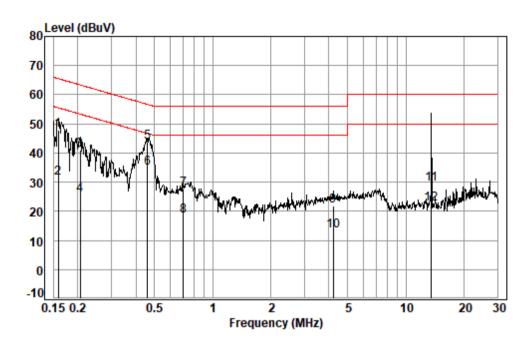


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Test Mode: 01: Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 03142AT

Test mode: 01

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1590	0.06	9.89	38.01	47.96	65.52	-17.56	QP
2	0.1590	0.06	9.89	21.44	31.39	55.52	-24.13	Average
3	0.2061	0.06	9.92	30.97	40.95	63.36	-22.41	QP
4	0.2061	0.06	9.92	15.62	25.60	53.36	-27.76	Average
5 *	0.4588	0.08	9.92	33.87	43.87	56.71	-12.84	QP
6 *	0.4588	0.08	9.92	24.84	34.84	46.71	-11.87	Average
7	0.7047	0.08	9.96	17.48	27.52	56.00	-28.48	QP
8	0.7047	0.08	9.96	8.52	18.56	46.00	-27.44	Average
9	4.2242	0.12	9.99	11.70	21.81	56.00	-34.19	QP
10	4.2242	0.12	9.99	3.18	13.29	46.00	-32.71	Average
11	13.5509	0.24	10.25	18.72	29.21	60.00	-30.79	QP
12	13.5509	0.24	10.25	11.91	22.40	50.00	-27.60	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

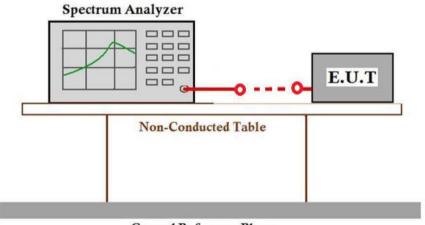
Operating Environment:

24.6 °C Atmospheric Pressure: 1020 mbar Temperature: Humidity: 38.9 % RH

#### 7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode(13.56MHz)_Keep the EUT in transmitting mode

#### 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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3 dBm

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f <sub>L</sub> (MHz)	f <sub>H</sub> (MHz)	f <sub>C</sub> (MHz)	Limit(MHz)	Result
13.558898	13.562818	13.560946	13.553 to 13.567	PASS

40 dB

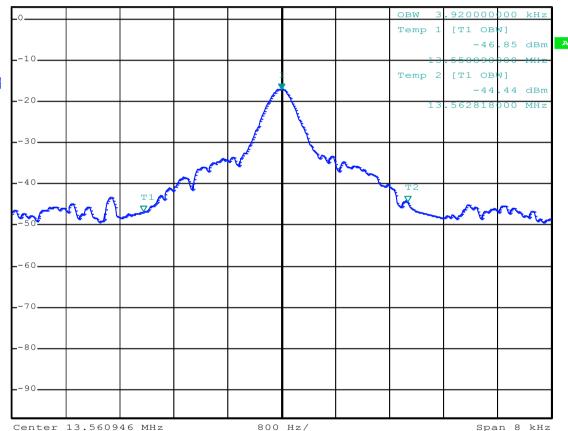
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Ref

\*RBW 300 Hz Marker 1 [T1 ] ★VBW 1 kHz -17.01 dBm SWT 90 ms 13.560946000 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: 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 30m test distance is below:

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

where

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

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

The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 84dBuV/m at 30 meters.

#### 7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 51.5 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description				
Final test	01	TX mode(13.56MHz)_Keep the EUT in transmitting mode				



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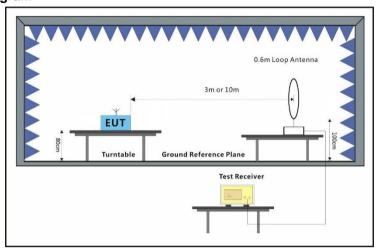


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#### 7.3.3 Test Setup Diagram



#### 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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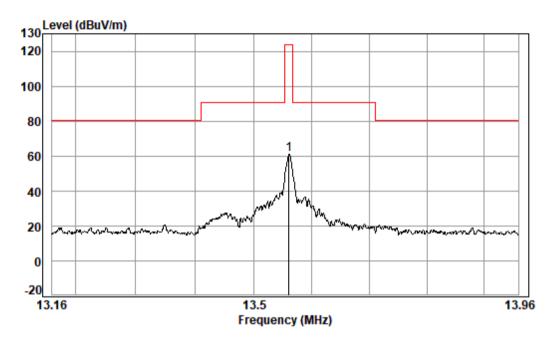
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Condition: 3m

Job No. : 03142AT

Test Mode: 01

Ant Cable Preamp Limit Read 0ver Loss Factor Level Line Limit Remark Freq Level Factor dB/m MHz dBuV dB dB dBuV/m dBuV/m dB 13.561 83.89 8.66 1.13 32.50 61.18 124.00 -62.82 QP



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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

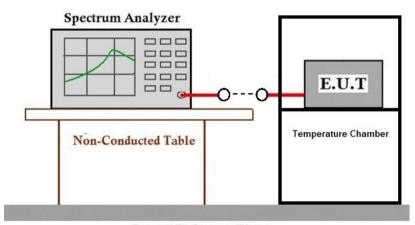
Operating Environment:

Temperature: 24.6 °C Humidity: 38.9 % RH Atmospheric Pressure: 1020 mbar

#### 7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode(13.56MHz)_Keep the EUT in transmitting mode

#### 7.4.3 Test Setup Diagram



Ground Reference Plane

#### 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(VAC)	Measurement Frequency(MHz)	Frequency Tolerance (%)	Limit (%)	Result
50	120	13.560201	0.00148		Pass
40		13.560205	0.00151		Pass
30		13.560204	0.00150		Pass
20		13.560204	0.00150		Pass
10	120	13.560202	0.00149	.0.01	Pass
0		13.560207	0.00153	±0.01	Pass
-10		13.560204	0.00150		Pass
-20		13.560205	0.00151		Pass
20	108	13.560201	0.00148		Pass
20	132	13.560202	0.00149		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		

#### **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:

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

where f<sub>MHz</sub> is the frequency of the emission being measured in MHz.

#### 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



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

where

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

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

#### 7.5.1 E.U.T. Operation

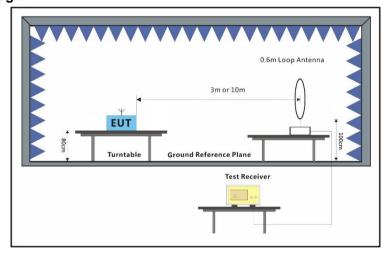
Operating Environment:

Temperature: 23.6 °C Humidity: 51.5 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode(13.56MHz)_Keep the EUT in transmitting mode

#### 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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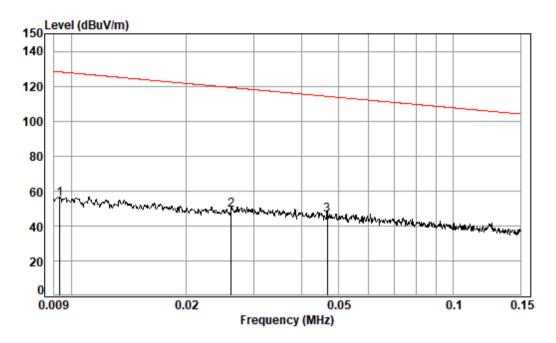
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Condition: 3m

Job No. : 03142AT

Test Mode: 01

	nouc. or									
		Read	Ant	Cable	Preamp		Limit	0ver		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
										_
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.009	67.35	18.76	0.31	31.34	55.08	128.18	-73.10	Average	
2	0.026	68.48	12.67	0.31	32.40	49.06	119.22	-70.16	Average	
3 pp	0.047	67.03	11.14	0.30	32.45	46.02	114.19	-68.17	Average	



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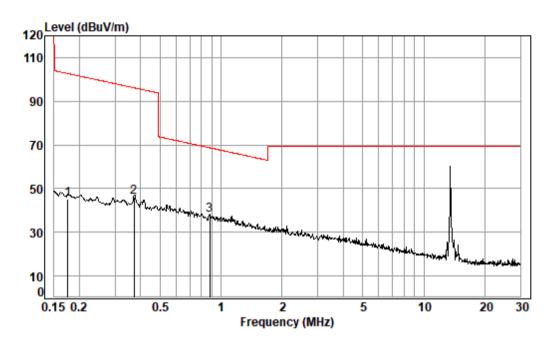
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Condition: 3m

Job No. : 03142AT

Test Mode: 01

		Read	Ant	Cable	Preamp		Limit	0ver		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
										_
	MHz	dBuV	dB/m	dB	dB	d Bu V/m	dBuV/m	dB		
1	0.176	67.12	10.40	0.30	32.50	45.32	102.70	-57.38	Average	
2 av	0.373	68.00	10.33	0.33	32.50	46.16	96.17	-50.01	Average	
3 pr	0.880	59.65	10.30	0.40	32.50	37.85	68.68	-30.83	OP	



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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 6.5

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.

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

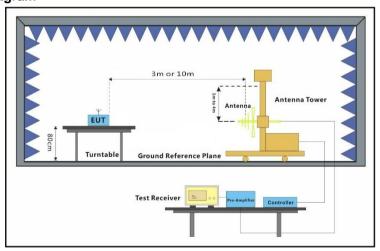
Operating Environment:

Temperature: 23.6 °C Humidity: 51.9 % RH Atmospheric Pressure: 1020 mbar

#### 7.6.2 Test Mode Description

		ou.po
Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode(13.56MHz)_Keep the EUT in transmitting mode

#### 7.6.3 Test Setup Diagram





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#### 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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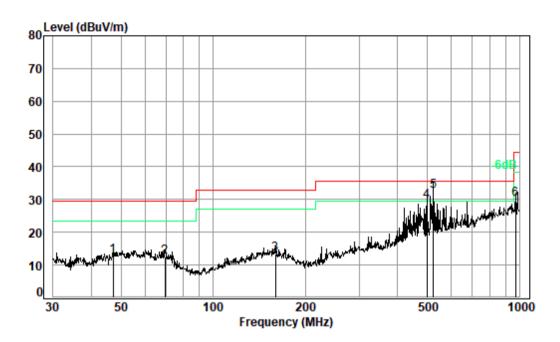


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Test Mode: 01; Polarity: Horizontal



Condition: 10m HORIZONTAL

Job No. : 03142AT

Test Mode: 01

= 3 C	Mode. OI									
		Read	Ant	Cable	Preamp		Limit	0ver		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	47.160	27.02	17.84	0.50	32.50	12.86	29.50	-16.64	QP	
2	69.600	28.47	15.99	0.60	32.45	12.61	29.50	-16.89	QP	
3	159.784	27.13	17.79	0.95	32.40	13.47	33.00	-19.53	QP	
4	499.425	38.19	21.87	1.60	32.30	29.36	35.60	-6.24	QP	
5 p	p 524.554	41.01	22.24	1.65	32.33	32.57	35.60	-3.03	QР	
6	972.337	31.19	27.84	2.27	31.25	30.05	44.40	-14.35	QР	



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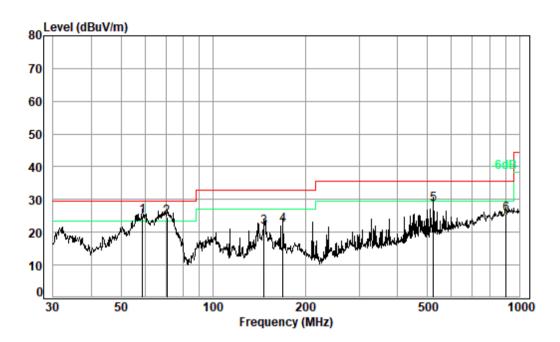


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Test Mode: 01; Polarity: Vertical



Condition: 10m VERTICAL

Job No. : 03142AT

Test Mode: 01

'	-3 11	ouc. or									
			Read	Ant	Cable	Preamp		Limit	0ver		
		Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
	_										
		MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
	1 pp	58.819	39.50	17.47	0.60	32.48	25.09	29.50	-4.41	QP	
	2	70.584	40.84	15.80	0.60	32.45	24.79	29.50	-4.71	QР	
	3	146.888	35.45	17.64	0.90	32.40	21.59	33.00	-11.41	QР	
	4	169.005	36.48	17.23	0.97	32.40	22.28	33.00	-10.72	QP	
	5	524.554	37.16	22.24	1.65	32.33	28.72	35.60	-6.88	QP	
	6	903.309	27.42	27.41	2.10	31.39	25.54	35.60	-10.06	OP	



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

Please refer to setup photos for SZCR2408003142AT.

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

Refer to External and Internal Photos for SZCR2408003142AT

- End of the Report -



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