

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200051003

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TEST REPORT

Application No.: FYCR2212000510AT

Applicant: Armatura LLC

Address of Applicant: 190 Bluegrass Valley Parkway Alpharetta, GA 30005, United States of

America

Manufacturer: Armatura LLC

Address of Manufacturer: 190 Bluegrass Valley Parkway Alpharetta, GA 30005, United States of

America

Factory: Armatura Tech Co., Ltd

Address of Factory: Address 1:999/43 Moo15 Bangsaothong, Samutprakarn 10570, Thailand

Address 2: 999/120-121 Moo15 Bangsaothong, Samutprakarn 10570,

Thailand

Equipment Under Test (EUT):

EUT Name: Smart Reader

Model No.: EP20CKQ, EP20CQ, EP20CK, EP20C

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

actually tested and which were electrically identical.

Trade Mark: ARMATURA

FCC ID: 2A5UQ-EP20

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

Date of Receipt: 2022-12-13

Date of Test: 2022-12-26 to 2023-01-03

Date of Issue: 2023-01-09

Test Result: Pass*

Winkey Wang EMC Technical Manager

WinkeyWang



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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 Remark						
01		2023-01-09		Original			

Authorized for issue by:		
	Tree Zhan	
	Tree Zhan/Project Engineer	-
	WinkeyWang	
	Winkey Wang/Reviewer	-



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2 Test Summary

Radio Spectrum Technical Requirement						
Item	Standard	Method	Requirement	Result		
Antenna Requirement	47 CFR Part 15, Subpart C 15.225	N/A	47 CFR Part 15, Subpart C 15.203	Pass		

Radio Spectrum Matter Part					
Item	Standard	Method	Requirement	Result	
Conducted Emissions at Mains Terminals (150kHz- 30MHz)		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, 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	·	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	

Declaration of EUT Family Grouping:

Model No.: EP20CKQ, EP20CQ, EP20CK, EP20C

Only the model EP20CKQ was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference on appearance and model No..



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4 General Information

4.1 Details of E.U.T.

Power supply:	Input: DC 9-24V
Operation Frequency:	13.56MHz
Modulation Type:	ASK
Number of Channels:	1
Antenna Type:	PCB Antenna

Remark: The information in this section is provided by the applicant or manufacturer, CCS 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.
Switching Power	Shenzhen HONOR electronic co., LTD	ADS-40SI-12-3 12036E	N/A

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at Mains Terminals (150kHz-30MHz)	± 2.1 dB (9kHz to 30MHz)
20dB Bandwidth	± 0.3%
Emission Mask	± 0.3%
Frequency tolerance	± 5.4 x 10-8
Radiated Emissions (30MHz-1GHz)	± 5.6 dB (30MHz-1GHz)
Radiated Emissions (9kHz-30MHz)	± 2.7 dB (9kHz-30MHz)

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr/ETSI} (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark,Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China Tel: +86 755 8866 3988 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. 6606.01)

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

• FCC -Designation Number: CN1322

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

• Innovation, Science and Economic Development Canada

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

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	CRT	N/A	SEM001-14	2021/7/13	2024/7/12	
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-01	2022/7/12	2023/7/11	
Two-Line V-Network	Rohde & Schwarz	ENV216	SEM007-16	2022/7/12	2023/7/11	
Two-Line V-Network	Dahala 9 Caharan	ECUD 75	CEM007.00	2022/4/10	2023/4/9	
TWO-LINE V-NetWORK	Rohde & Schwarz	ESH3-Z5	SEM007-22	2023/1/10	2024/1/9	
Coaxial Cable	CCS	N/A	SEM033-02	2022/5/16	2023/5/15	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	

20dB Bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2022/7/12	2023/7/11
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2022/7/12	2023/7/11
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2022/7/12	2023/7/11
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

Emission Mask					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12
Loop Antenna	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25
MXE EMI receiver	Agilent	N9038A	SEM004-05	2022/7/12	2023/7/11
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A



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Frequency tolerance					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2022/7/12	2023/7/11
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29
Signal Generator	Agilent	N5173B	SEM006-05	2022/7/12	2023/7/11
ESG Vector Signal Generator	Agilent	E4438C	SEM006-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2022/7/12	2023/7/11
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2022/7/12	2023/7/11
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2022/7/12	2023/7/11
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2022/7/12	2023/7/11
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

Radiated Emissions (9kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12
Loop Antenna	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25
MXE EMI receiver	Agilent	N9038A	SEM004-05	2022/7/12	2023/7/11
Pre-amplifier	HP	8447D	SEM005-02	2022/7/12	2023/7/11
Coaxial Cable	CCS	N/A	SEM035-01	2022/5/16	2023/5/15
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A



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Radiated Emissions (30	Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12	
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24	
Biconical Antenna	Schwarzbeck	VUBA9117	SEM003-35	2021/12/26	2024/12/25	
Loop Antenna	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25	
MXE EMI receiver	Agilent	N9038A	SEM004-05	2022/7/12	2023/7/11	
Pre-amplifier	HP	8447D	SEM005-02	2022/7/12	2023/7/11	
Coaxial Cable	CCS	N/A	SEM035-01	2022/5/16	2023/5/15	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	

General used equipment								
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date			
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-22	2022/7/12	2023/7/11			
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-23	2022/7/12	2023/7/11			
Barometer	DUMAI	DYM3	SEM002-24	2022/7/12	2023/7/11			



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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 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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7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Mains Power Port (150kHz-30MHz)

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

Limit:

Francisco of aminaian (MIII-)	Conducted limit(dBμV)				
Frequency of emission(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

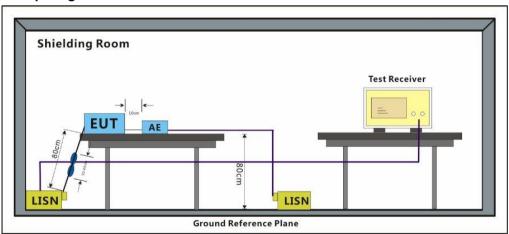
Operating Environment:

Temperature: 23.2 °C Humidity: 52.4 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	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 $50 \text{ohm}/50 \mu\text{H} + 5 \text{ohm}$ 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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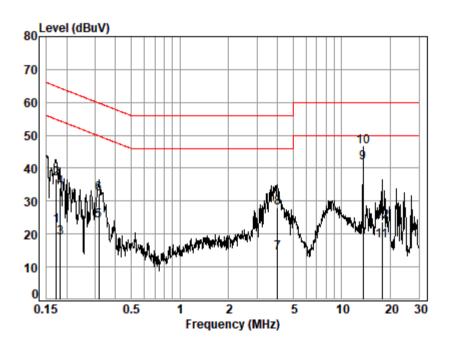


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Test Mode: 03; Line: Live line



Site : Shielding Room

Condition: Line Job No. : 00510AT

Test mode: 03

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1722	0.02	0.25	22.20	22.47	54.86	-32.39	Average
2	0.1722	0.02	0.25	36.41	36.68	64.86	-28.18	QP
3	0.1825	0.02	0.26	18.66	18.94	54.37	-35.43	Average
4	0.1825	0.02	0.26	33.90	34.18	64.37	-30.19	QP
5	0.3149	0.03	0.26	23.71	24.00	49.84	-25.84	Average
6	0.3149	0.03	0.26	32.08	32.37	59.84	-27.47	QP
7	4.0062	0.03	0.12	14.16	14.31	46.00	-31.69	Average
8	4.0062	0.03	0.12	27.77	27.92	56.00	-28.08	QP
9	13.5600	0.05	0.11	41.40	41.56	50.00	-8.44	Average
10	13.5600	0.05	0.11	46.30	46.46	60.00	-13.54	QP
11	17.7549	0.06	0.19	17.68	17.93	50.00	-32.07	Average
12	17.7549	0.06	0.19	23.48	23.73	60.00	-36.27	QP



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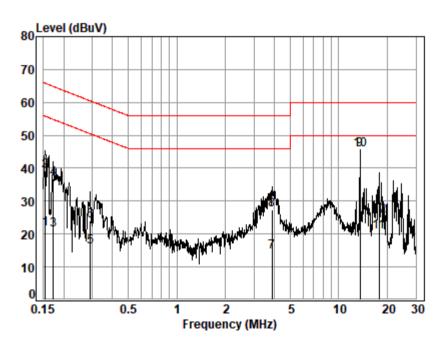


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Test Mode: 03; Line: Neutral Line



Site : Shielding Room

Condition: Neutral Job No. : 00510AT

Test mode: 03

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1540	0.02	0.31	21.31	21.64	55.78	-34.14	Average
2	0.1540	0.02	0.31	38.93	39.26	65.78	-26.52	QP
3	0.1722	0.02	0.30	20.97	21.29	54.86	-33.57	Average
4	0.1722	0.02	0.30	36.60	36.92	64.86	-27.94	QP
5	0.2924	0.03	0.28	15.91	16.22	50.46	-34.24	Average
6	0.2924	0.03	0.28	23.65	23.96	60.46	-36.50	QP
7	3.8603	0.03	0.12	14.42	14.57	46.00	-31.43	Average
8	3.8603	0.03	0.12	27.34	27.49	56.00	-28.51	QP
9	13.5600	0.05	0.14	45.40	45.59	50.00	-4.41	Average
10	13.5600	0.05	0.14	45.30	45.49	60.00	-14.51	QP
11	17.7549	0.06	0.24	20.42	20.72	50.00	-29.28	Average
12	17.7549	0.06	0.24	25.35	25.65	60.00	-34.35	QP



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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

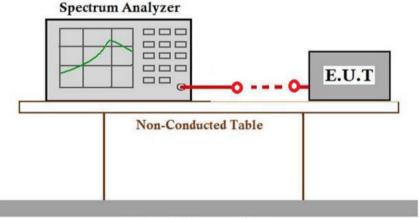
Operating Environment:

Temperature: 24.6 °C Humidity: 46.2 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode(13.56MHz)_Keep the EUT in transmitting mode

7.2.3 Test Setup Diagram







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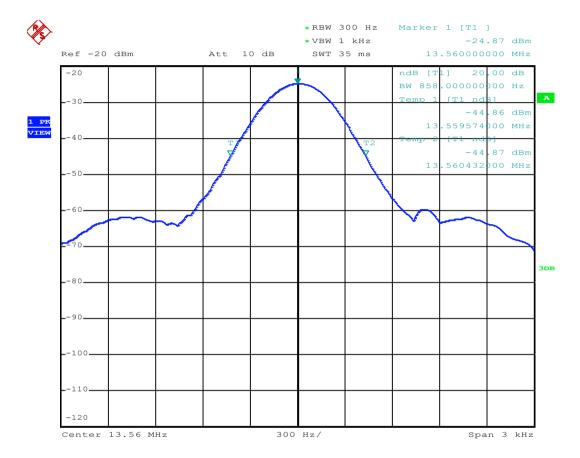
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7.2.4 Measurement Procedure and Data

Test Frequency(MHz)	20dB bandwidth(kHz)	Limit(kHz)	Results
13.56	0.858	N/A	Pass





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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

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

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

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

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: 27.5 °C Humidity: 40.8 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode(13.56MHz)_Keep the EUT in transmitting mode



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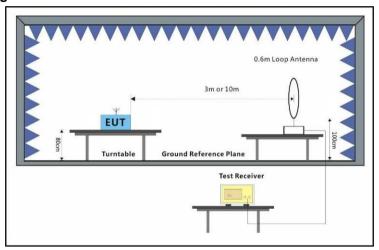


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7.3.3 Test Setup Diagram



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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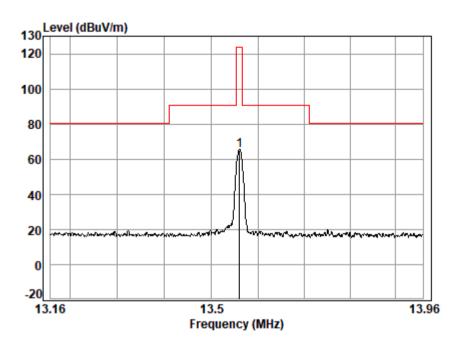
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Condition: 3m

Job No. : 00510AT

Test Mode: 03

Ant Preamp Limit Cable Read Over Loss Factor Factor Level Level Line Limit Remark Frea dB dBuV dBuV/m dBuV/m MHz dΒ dB/m dB 13.560 8.65 31.47 87.20 64.78 124.00 -59.22 QP 1 0.40



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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

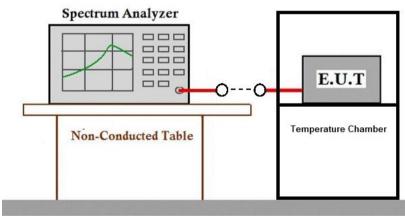
Operating Environment:

Temperature: 27.5 °C Humidity: 40.8 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	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			
Temperature (°C)	Voltage(VDC)	Voltage(VDC) Measurement Frequency Frequency(MHz) Tolerance (Limit (%)	Result
50		13.560047	0.0003466		Pass
40		13.560031	0.0002286		Pass
30		13.560022	0.0001622		Pass
20	12	13.560000	0		Pass
10	12	13.559981	-0.0001401	±0.01	Pass
0		13.559978	-0.0001622	±0.01	Pass
-10		13.559931	-0.0005088		Pass
-20		13.559908	-0.0006785		Pass
20	13.80	13.560146	0.0010767		Pass
20	10.20	13.559978	-0.0001622		Pass



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7.5 Radiated Emissions (9kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

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

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz. 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.

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



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7.5.1 E.U.T. Operation

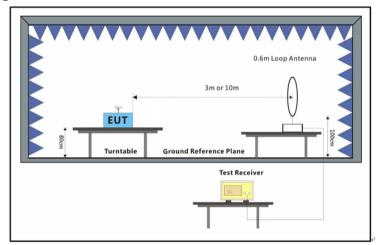
Operating Environment:

Temperature: 23.5 °C Humidity: 52.4 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode(13.56MHz)_Keep the EUT in transmitting mode

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

- a. All radiated emission measurements in terms of magnetic field strength shall be performed with a shielded loop antenna.
- b. For all radiated emission measurements in terms of magnetic field strength, the loop antenna were placed such that:
- i. its centre shall be at 1.3 m height above the ground plane;
- ii. the projection of its centre onto the ground plane shall be at the specified measurement distance from the projection on the ground plane of the closest point on the boundary of the equipment under test (EUT); and
- iii. measurements shall be performed with the loop antenna placed vertically, in turn, in two polarizations (the measurement axis specified below is the line segment connecting the projections on the ground plane of the centre of the loop antenna and the centre of the EUT arrangement):
- · coaxial (loop plane perpendicular to the ground plane and to the measurement axis); and
- · coplanar (loop plane perpendicular to the ground plane and coplanar with the measurement axis).



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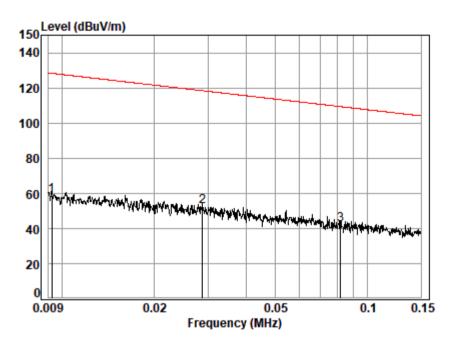


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9KHz-150KHz



Condition: 3m

Job No. : 00510AT

Test Mode: 03

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
1	0.009	0.29	18.81	30.10	69.84	58.84	128.30	-69.46	Average	
2	0.029	0.29	12.23	31.09	70.83	52.26	118.43	-66.17	Average	
3	0.082	0.30	10.59	31.77	63.16	42.28	109.36	-67.08	Average	



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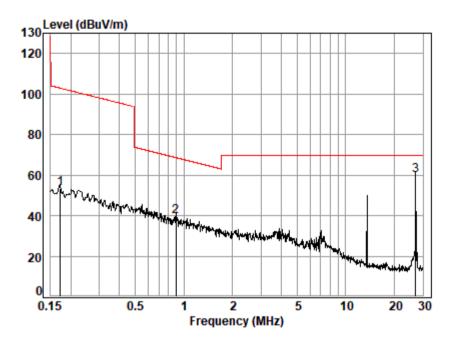


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150KHz-30MHz



Condition: 3m

Job No. : 00510AT

Test Mode: 03

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	0.172	0.29	10.39	31.88	74.43	53.23	102.89	-49.66	Average
2	0.894	0.32	10.28	31.80	60.50	39.30	68.57	-29.27	QP
3	27.127	0.23	6.16	31.41	84.82	59.80	69.54	-9.74	OP



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7.6 Radiated Emissions (30MHz-1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 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		
960-1000	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: 23.5 °C Humidity: 52.4 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode(13.56MHz)_Keep the EUT in transmitting mode



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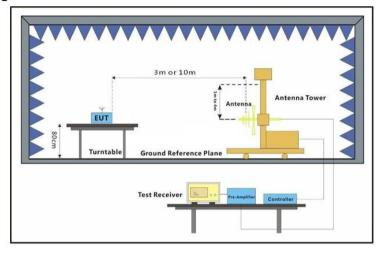


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7.6.3 Test Setup Diagram



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 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. 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.
- 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. Test the EUT in the lowest channel, the middle channel, the Highest channel
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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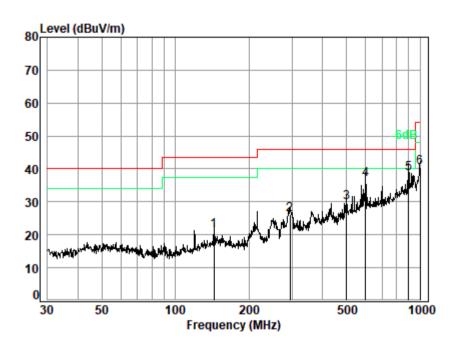


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Test Mode: 03; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00510AT

Mode : 03

		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	143.830	0.95	17.44	25.53	28.50	21.36	43.50	-22.14	QP
2	294.114	0.99	18.08	25.40	32.59	26.26	46.00	-19.74	QP
3	501.179	1.40	22.91	25.49	31.02	29.84	46.00	-16.16	QP
4	599.321	2.26	24.34	25.00	35.35	36.95	46.00	-9.05	QP
5	900.147	2.35	28.36	24.09	32.16	38.78	46.00	-7.22	QP
6	1000.000	2.89	29.28	24.00	32.38	40.55	54.00	-13.45	OP



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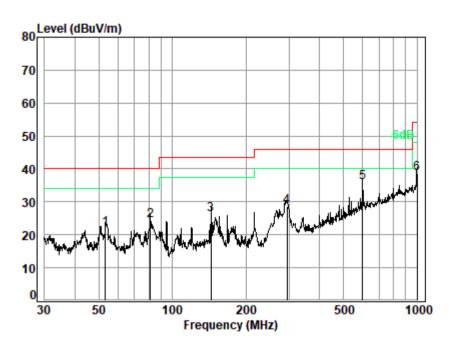


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Test Mode: 03; Polarity: Vertical



Site : chamber Condition: 3m VERTICAL Job No : 00510AT

Mode : 03

1000									
				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	53.318	0.24	17.27	25.97	30.33	21.87	40.00	-18.13	OP
2	81.497								-
3	143.830			25.53					-
4	294.114	0.99	18.08	25.40	34.85	28.52	46.00	-17.48	QP
5	599.321	2.26	24.34	25.00	34.44	36.04	46.00	-9.96	QP
6	1000.000	2.89	29.28	24.00	30.56	38.73	54.00	-15.27	QP



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR2212000510AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for FYCR2212000510AT.

- End of the Report -



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