



RF TEST REPORT

Report No.: 20230717G07506X-W10

Product Name: Mobile Computer

Model No.: XT40

FCC ID: UTWXT40WA

IC: 6914A-XT40WA

Applicant: Janam Technologies LLC

Address: 100 Crossways Park West Suite 105 Woodbury, NY 11797

Dates of Testing: 07/05/2023 - 08/17/2023

Issued by: CCIC Southern Testing Co., Ltd.

Electronic Testing Building, No. 43 Shahe Road, Xili Street,

Lab Location:

Nanshan District, Shenzhen, Guangdong, China.

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Test Report

Product.....: Mobile Computer

Brand Name....: Janam

Trade Name: Janam

Applicant...... Janam Technologies LLC

Applicant Address.....: 100 Crossways Park West Suite 105 Woodbury, NY

11797

Manufacturer...... Janam Technologies LLC

Manufacturer Address.....: 100 Crossways Park West Suite 105 Woodbury, NY

11797

Test Standards....: 47 CFR FCC Part 15C 15.225

RSS-Gen Issue 5, Feb 2021

RSS-210 Issue 10, Dec 2019 Annex B, B.6

ANSI C63.10-2013

Test Result.....: Pass

Chuiwang Zhang, Test Engineer

Chris You, Senior Engineer

Approved by.....: 2023.08.18

Yang Fan, Manager

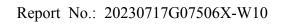
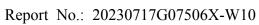




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Change History

Issue Date Reason for change

1.0 2023.08.18 First edition



1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Mobile Computer
Model No.	XT40
Hardware Version	SQ51Q_MB
Software Version	XT40_CN_XX_WE_DS_R02_D_20230604
Operating Rang	13.56MHz
Number of channel	1
Modulation Type	ASK
Antenna Type	Internal Antenna
Antenna Gain	0dBi
Power supply	Rechargeable Li-ion Polymer Battery DC 3.85V/4500mAh



1.2. Test Standards and Results

The purpose of the report is to conduct testing according to the following FCC/IC certification standards:

No.	Identity Document Title			
1	47 CFR Part 15 Subpart C Radio Frequency Devices			
2	General Requirements for Compliance of			
	RSS-Gen Issue 5, Feb 2021	Apparatus		
2	RSS-210 Issue 10 December	Licence-Exempt Radio Apparatus:		
3	2019 Annex B, B.6	Category I Equipment		
4	KDB 174176 D01 Line	AC Power-Line Conducted Emissions		
4	Conducted FAQ v01r01	Frequently Asked Questions		
5	ANSI C63.10-2013	American National Standard for Testing Unlicensed		
3	AINSI C03.10-2013	Wireless Devices		

Test detailed items/section required by FCC/IC rules and results are as below:

No.	Section in CFR 47	IC Rules	Description	Result
1	15.203	RSS-GEN, 6.8	Antenna Requirement	PASS
2	15.207	RSS-GEN, 8.8	Conducted Emission	PASS
3	15.225(d)	RSS-GEN, 8.9	Radiated Emission	PASS
3	15.209	RSS-210 Annex B, B.6	Radiated Emission	PASS
4	15.225(a) (b) (c)	RSS-210 Annex B, B.6	Field Strength of Radiated	PASS
4	15.31(f)	KSS-210 Allilex D, D.0	Emissions	rass
5	15.225(e)	RSS-GEN, 6.11	Frequency Stability	PASS
	13.223(6)	RSS-210 Annex B, B.6	Frequency Stability	FASS
6	15.215(c)	RSS-GEN, 6.7	20 dB & 99% Bandwidth	PASS

Note 1: The tests of Conducted Emission and Radiated Emission were performed according to the method of measurements prescribed in ANSI C63.10-2013.



1.3. Laboratory Facilities

FCC-Registration No.: 406086

CCIC Southern Testing Co., Ltd EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Designation Number: CN1283, valid time is until Sep. 30th, 2023.

ISED Registration: 11185A

CCIC Southern Testing Co., Ltd. EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 11185A on Aug. 04, 2016, valid time is until Sep. 30th, 2023.

CAB number: CN0064

A2LA Code: 5721.01

CCIC-SET is a third party testing organization accredited by A2LA according to ISO/IEC 17025. The accreditation certificate number is 5721.01.

1.4. Test Environment Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15℃-35℃
Relative Humidity (%):	30% -60%
Atmospheric Pressure (kPa):	86kPa-106kPa



1. Test Requirements

1.1. Antenna requirement

1.1.1. Applicable Standard

According to FCC 15.203, 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 shall be considered sufficient to comply with the provisions of this section.

According to RSSGEN 6.8, The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

1.1.2. Antenna Information

Antenna Category: Internal Antenna

A internal Antenna was soldered to the antenna port of EUT via an adaptor cable, can't be removed.

Antenna General Information:

No.	EUT	Operating frequency range	Ant. Type	Ant. Gain
1	Mobile Computer	13.56 MHz	Internal	0

1.1.3. Result: comply

The EUT has a permanently and irreplaceable attached antenna. Please refer to the EUT internal photos.



1.2. Field Strength of Radiated Emissions

1.2.1. Requirement

As per FCC Part 15.225 and RSS-210 Annex B, B.6.

- (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) Extrapolation Factor = $20 \log_{10}(30/3)^2 = 40 dB$.

1.2.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

1.2.3. Test Description

The measured Field Strength of Radiated Emissions was calculated by the reading of the spectrum analyzer and calibration.

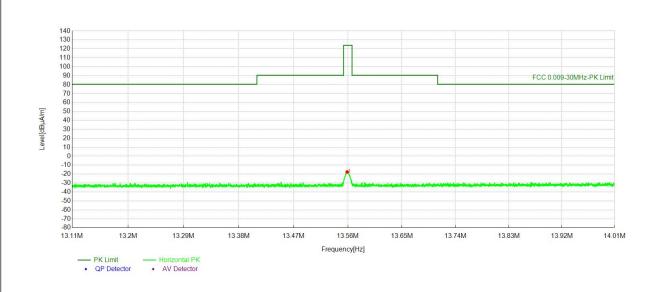
1.2.4. Test Setup

The radiated emission tests were performed in the 5-meter chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC Part Subpart C limits.



1.2.5. Test Result

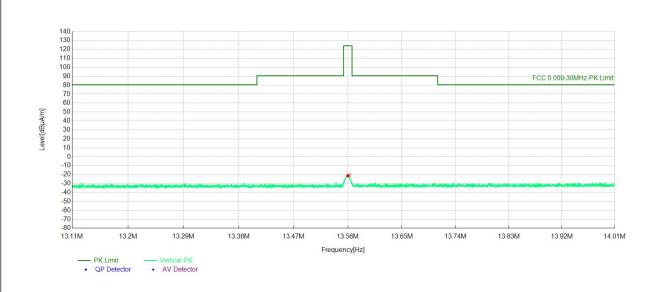
Field Strength of Radiated Emissions							
Test site:	Test site: 5M anechoic chamber Environment: Temp: 23℃; Humi:59%;101kPa						
Operator: Yang zhicheng Test Date: 2023.07.12							
Test Mode: NFC Tx Polarization: Horizontal							



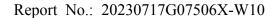
Sus	Suspected List								
NO	Freq. [MHz]	Level [dBµA/m]	Factor [dB]	Limit@3m [dBµA/m]	Margin [dBµV/m]	Trace	Height [cm]	Angle [°]	Polarity
1	13.560	-17.58	-28.24	124.00	141.58	PK	100	207	Horizontal



Field Strength of Radiated Emissions							
Test site:	Test site: 5M anechoic chamber Environment: Temp: 23℃; Humi:59%;101kPa						
Operator: Yang zhicheng Test Date: 2023.07.12							
Test Mode:	NFC Tx	Polarization:	Vertical				



Susp	Suspected List								
NO	Freq. [MHz]	Level [dBµA/m]	Factor [dB]	Limit@3m [dBµA/m]	Margin [dBµV/m]	Trace	Height [cm]	Angle [°]	Polarity
1	13.560	-21.22	-28.25	124.00	145.22	PK	100	103	Vertical





1.3. 20 dB & 99% Bandwidth

1.3.1. Requirement

Per 15.215 (c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

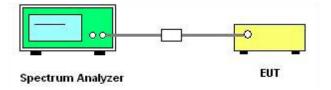
According to RSS-GEN 6.8, The occupied bandwidth or the "99% emission bandwidth" is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.

Intentional radiators must be designed to ensure that the 20 dB bandwidth of the emissions in the specific band (13.553-13.567MHz).

1.3.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

1.3.3. Test Setup



- 1. The EUT which is powered by the AC 120V/60Hz is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss and Atten as the factor is calibrated to correct the reading.
- 2. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 3. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.

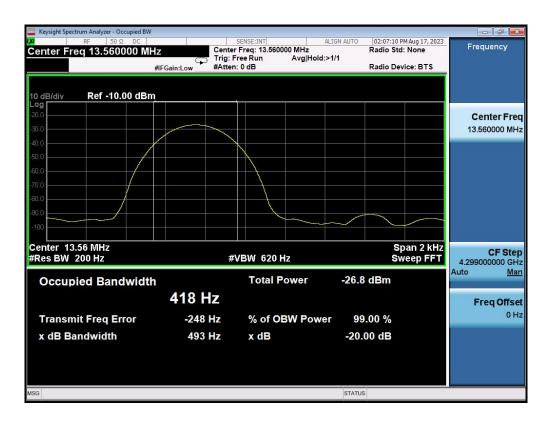


4. Use the spectrum analyzer "Channel Bandwidth" function to easurement the 20dB EBW and 99% OBW.

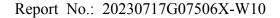
1.3.4. Test Results

Test Frequency(MHz)	99% OBW (kHz)	20dB EBW(kHz)	20dB EBW Limit (kHz)	Results
13.56	0.418	0.493	11.2	Pass

Note: For 13.56MHz, permitted Band is 14 kHz, so the Limit is 11.2 kHz.



Note: Because the measured signal is CW adjusting the RBW per C63.10-2013 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.





1.4. Frequency Stability

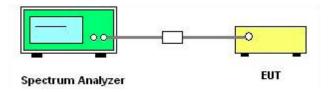
1.4.1. Requirement

According to FCC section 15.225(e), the frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ (100ppm) of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

1.4.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

1.4.3. Test Setup



The EUT is powered by AC 120V/60Hz, which is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.

1.4.4. Test Procedures

- 1. Frequency Stability vs. Temperature: The EUT is powered by AC 120V/60Hz, than antenna was connected to a Spectrum Analyzer. The EUT was placed inside the temperature chamber.
- 2. After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the Spectrum Analyzer.
- 3. Frequency Stability vs. Voltage: An external variable AC power supply Source. The voltage was set to 115% of the nominal value and was then decreased until the transmitter light no longer illuminated; i.e., the end point. The output frequency was recorded for each voltage.



1.4.5. Test Results

Test Mode: Continuous Transmitting

Test Environment		Frequency	Frequency	Frequency	Limit	
Adapter Power	Temperature	Reading	Error	Error	(%)	Result
Supply	(°C)	(MHz)	(%)	(ppm)	(70)	
	-20	13.559974	-0.0000019174	-1.9174		Pass
	-10	13.559976	-0.0000017699	-1.7699		Pass
	0	13.559974	-0.0000019174	-1.9174		Pass
DC 3.85V	10	13.559975	-0.0000018437	-1.8437		Pass
DC 3.83 V	20	13.559976	-0.0000017699	-1.7699	±0.01%	Pass
	30	13.559974	-0.0000019174	-1.9174	(±100ppm)	Pass
	40	13.559974	-0.0000019174	-1.9174		Pass
	50	13.559975	-0.0000018437	-1.8437		Pass
Max. = DC 4.40V	20	13.559976	-0.0000017699	-1.7699		Pass
Min. = DC 3.50V	20	13.559976	-0.0000017699	-1.7699		Pass



1.5. AC Power Line Conducted Emission

1.5.1. Requirement

According to FCC section 15.207, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a $50\mu H/50\Omega$ line impedance stabilization network (LISN).

Eraguanay ranga (MHz)	Conducted Limit (dBµV)			
Frequency range (MHz)	Quai-peak	Average		
0.15 - 0.50	66 to 56	56 to 46		
0.50 - 5	56	46		
5 - 30	60	50		

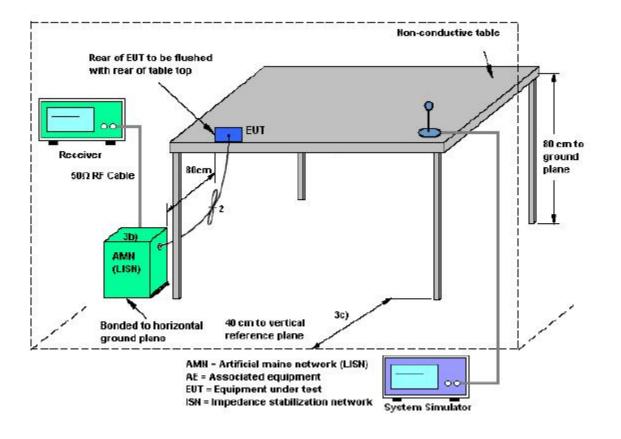
NOTE:

- (a) The lower limit shall apply at the band edges.
- (b) The limit decreases linearly with the logarithm of the frequency in the range 0.15 0.50MHz.

1.5.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

1.5.3. Test Setup





1.5.4. Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.

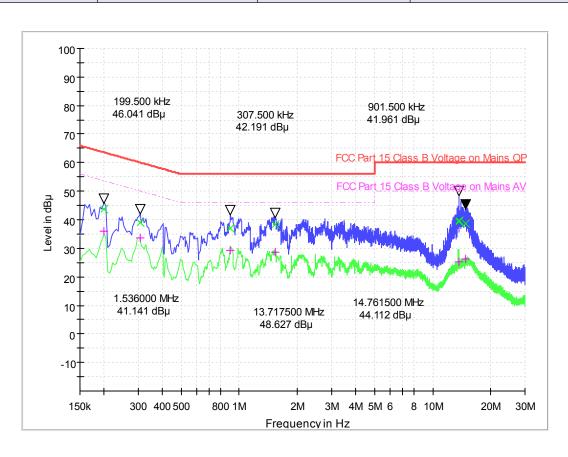
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 micrometry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

1.5.5. Test Results

The EUT configuration of the emission tests is NFC Tx + USB Cable (Charging from Adapter).



Project Information							
Test site:	Shield ROOM 1	Environment:	Temp: 23°C; Humi:53%;101kPa				
Operator:	LINDANQI	Test Date:	2023.07.17				
Test Mode:	NFC - TX	Test Part:	L				



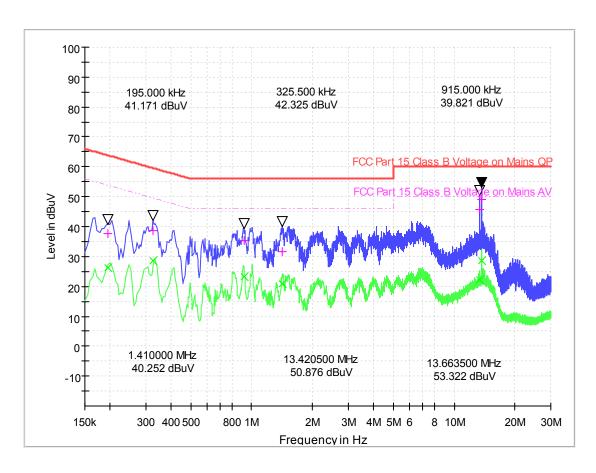
Frequency (MHz)	QuasiPeak (dBµV)	Average (dBμV)	Corr.Factor (dB)	Margin - QPK	Limit - QPK (dBµV)	Margin - AV (dB)	Limit - AV (dBµV)
0.199500	43.81	36.07	19.9	19.82	63.63	17.56	53.63
0.307500	38.90	33.75	19.9	21.14	60.04	16.29	50.04
0.901500	37.01	29.33	19.9	18.99	56.00	16.67	46.00
1.536000	38.19	28.66	19.9	17.81	56.00	17.34	46.00
13.717500	39.29	25.30	20.0	20.71	60.00	24.70	50.00
14.761500	38.76	26.19	20.0	21.24	60.00	23.81	50.00

Test Result: Pass

Note: Final Level = Receiver Read level + Correction factor.



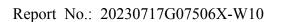
Project Information						
Test site:	Shield ROOM 1	Environment:	Temp: 23°C; Humi:53%;101kPa			
Operator:	LINDANQI	Test Date:	2023.07.17			
Test Mode:	NFC - TX	Test Part:	N			



Frequency (MHz)	QuasiPeak (dBµV)	Average (dBμV)	Corr.Factor (dB)	Margin - QPK	Limit - QPK (dBµV)	Margin - AV (dB)	Limit - AV (dBμV)
0.195000	37.79	26.12	10.3	26.03	63.8	27.70	53.8
0.325500	38.73	28.53	10.3	20.84	59.6	21.04	49.6
0.915000	35.15	23.30	10.2	20.85	56.0	22.70	46.0
1.410000	31.67	20.76	10.2	24.33	56.0	25.24	46.0
13.420500	45.80	22.26	10.8	14.20	60.0	27.74	50.0
13.663500	48.98	28.72	10.9	11.02	60.0	21.28	50.0

Test Result: Pass

Note: Final Level = Receiver Read level + Correction factor.





1.6. Radiated Emission

1.6.1. Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level. If the transmitter uses an RMS average conducted power limit, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the estricted bands, as defi ned in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

§15.209(a) Radiated emission limits:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note:

- 1. The radiated emission tests were performed in the 3-meter chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC Part Subpart C limits.
- 2. The EUT was connected to a 120VAC/60Hz power source.

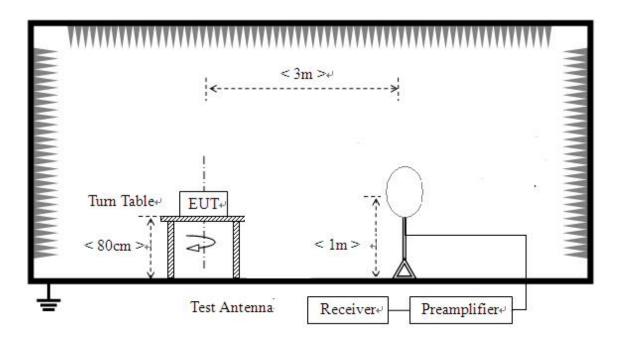
1.6.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

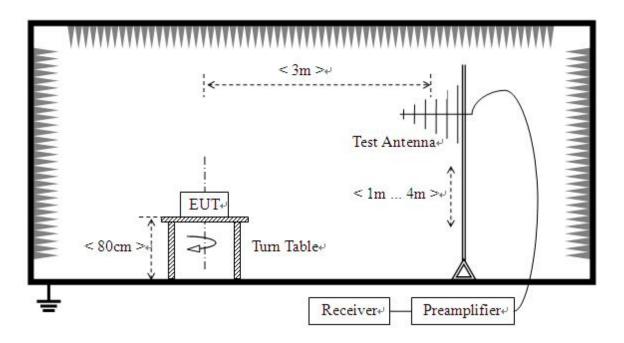


1.6.3. Test Setup

For radiated emissions from 9 kHz to 30 MHz



For radiated emissions from 30MHz to 1GHz



The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10:2013. The EUT was set-up on insulator 80cm above the Ground Plane. The set-up and test methods were according to ANSI C63.10:2013.



For the Test Antenna:

(a) In the frequency range of 9 kHz to 30MHz, magnetic field is measured with Loop Test Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.

(b) In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz). Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. The emission levels at both horizontal and vertical polarizations should be tested.

1.6.4. Test Results

According to ANSI C63.10-2013 selection 4.2.2, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak limit, it is unnecessary to perform an quasi-peak measurement.

The measurement results are obtained as below:

 $E[dB\mu V/m] = U_R + A_T + A_{Factor}[dB]; A_T = L_{Cable loss}[dB] - G_{preamp}[dB]$

A_T: Total correction Factor except Antenna

U_R: Receiver Reading

G_{preamp}: Preamplifier Gain A_{Factor}: Antenna Factor at 3m

L_{Cable loss}: Cable loss

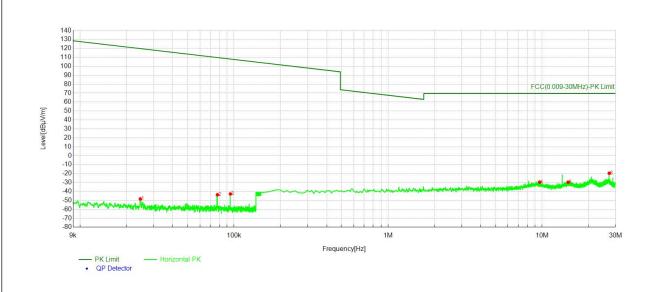
During the test, the total correction Factor AT and A_{Factor} were built in test software.

The radiated frequency ranges from 9 kHz to 1 GHz.



For 9 kHz to 30MHz

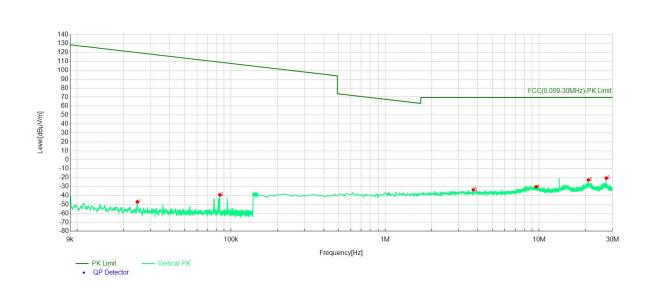
Project Information						
Test site:	5M anechoic chamber	Environment:	Temp: 23℃; Humi:59%;101kPa			
Operator:	Yang zhicheng	Test Date:	2023.07.12			
Test Mode:	NFC - Tx	Polarization:	Horizontal			



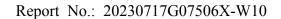
NO	Freq.	Level	Factor	Limit	Margin	Height	Angle	Dolority
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[cm]	[°]	Polarity
1	0.02	-48.31	-30.03	119.78	168.09	100	330	Horizontal
2	0.08	-43.69	-29.94	109.78	153.47	100	150	Horizontal
3	0.09	-42.78	-30.15	108.09	150.87	100	150	Horizontal
4	9.65	-29.53	-28.46	69.54	99.07	100	190	Horizontal
5	14.75	-29.67	-28.09	69.54	99.21	100	40	Horizontal
6	27.33	-19.62	-28.23	69.54	89.16	100	30	Horizontal



Project Information							
Test site:	5M anechoic chamber	Environment:	Temp: 23℃; Humi:59%;101kPa				
Operator:	Yang zhicheng	Test Date:	2023.07.12				
Test Mode:	NFC - Tx	Polarization:	Vertical				



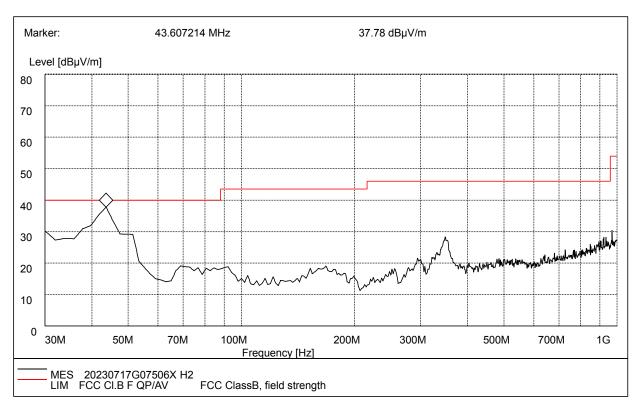
NO	Freq.	Level	Factor	Limit	Margin	Height	Angle	Dolority
NO.	NO. ' MHz] [dBµV/	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[cm]	[°]	Polarity
1	0.02	-47.15	-30.03	119.78	166.93	100	160	Vertical
2	0.08	-39.23	-30.02	109.08	148.31	100	300	Vertical
3	3.74	-33.65	-28.99	69.54	103.19	100	160	Vertical
4	9.60	-30.22	-28.49	69.54	99.76	100	110	Vertical
5	20.90	-22.66	-28.19	69.54	92.20	100	340	Vertical
6	27.32	-20.64	-28.22	69.54	90.18	100	40	Vertical





For 30MHz to 1000MHz

Project Information						
Test site:	3M anechoic chamber	Environment:	Temp: 23℃; Humi:48%;101kPa			
Operator:	HuangChaoMing	Test Date:	2023.07.13			
Test Mode:	NFC - TX	Polarization:	Horizontal			

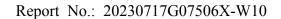


Frequency (MHz)	QuasiPeak (dBµV/m)	Bandwidth (kHz)	Corr.Factor (dB/m)	Antenna height (cm)	Limit (dBµV/m)	Margin (dB)	Polarity
30.00	29.18	120.0	19.3	100.0	40.0	10.82	Horizontal
43.21	36.78	120.0	14.0	100.0	40.0	3.22	Horizontal
92.20	17.79	120.0	9.9	100.0	43.5	25.71	Horizontal
168.01	18.01	120.0	12.5	100.0	43.5	25.49	Horizontal
294.36	20.54	120.0	10.0	100.0	46.0	25.46	Horizontal
348.79	27.24	120.0	16.9	100.0	46.0	18.76	Horizontal

Test Result: Pass

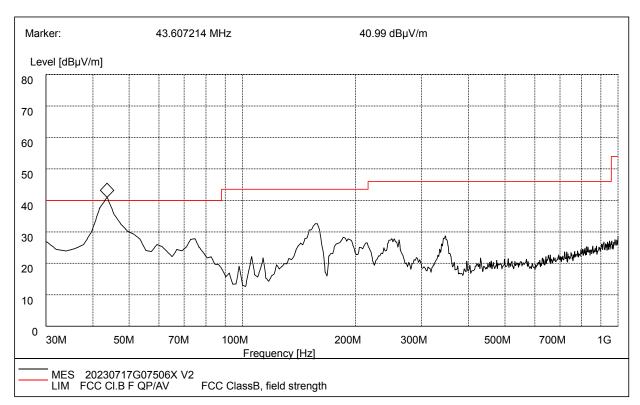
Remark:

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB).
- 3. Margin value = Limit value Emission Level.
- 4. The other emission levels were very low against the limit.





Project Information				
Test site:	3M anechoic chamber	Environment:	Temp: 23°C; Humi:48%;101kPa	
Operator:	HuangChaoMing	Test Date:	2023.07.13	
Test Mode:	NFC - TX	Polarization:	Vertical	



Frequency (MHz)	QuasiPeak (dBµV/m)	Bandwidth (kHz)	Corr.Factor (dB/m)	Antenna height (cm)	Limit (dBµV/m)	Margin (dB)	Polarity
43.62	35.02	120.0	14.0	100.0	40.0	4.98	Vertical
74.32	26.81	120.0	6.8	100.0	40.0	13.19	Vertical
158.29	31.57	120.0	12.4	100.0	43.5	11.93	Vertical
185.52	27.24	120.0	11.0	100.0	43.5	16.26	Vertical
249.65	26.80	120.0	13.1	100.0	46.0	19.2	Vertical
346.85	27.67	120.0	16.9	100.0	46.0	18.33	Vertical

Test Result: Pass

Remark:

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB).
- 3. Margin value = Limit value Emission Level.
- 4. The other emission levels were very low against the limit.



2. List of measuring equipment

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	5M Anechoic Chamber	Albatross	SAC-5MAC 12.8x6.8x6.4m	A0304210	2022.06.09	2026.06.08
2	EMI Test Receiver	ROHDE&SCHWARZ	ESW26	A180502935	2023.06.08	2024.06.07
3	Loop Antenna	Schwarz beck	HFH2-Z2	A0304220	2022.05.02	2025.05.01
4	Broadband antenna (30MHz~1GHz)	R&S	HL562	A0304224	2023.06.08	2024.06.07
5	Amplifier 30M~1GHz	MILMEGA	80RF1000-10004	A140101634	2022.12.13	2023.12.12
6	Spectrum Analyzer	KEYSIGHT	N9030A	A160702554	2023.02.20	2024.02.19
7	Test Receiver	R&S	ESIB7	A0501375	2023.03.16	2024.03.15
8	Broadband Ant.	2786	ETC	A150402240	2021.09.16	2024.03.03
9	3M Anechoic Chamber	Albatross	SAC-3MAC 9*6*6m	A0412375	2019.03.26	2024.03.25
10	Temperature chamber	TABAI	PS-232	A8708054	2022.08.18	2023.08.17
11	Test Receiver	KEYSIGHT	N9038A	A141202036	2023.06.12	2024.06.11
15	LISN	ROHDE&SCHWARZ	ENV216	A140701847	2023.06.08	2024.06.07
16	Power Supply	R&S	WYJ-60100	A141102031	2023.07.12	2026.07.11





3. Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence . The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of AC Power Line Conducted Emission Measurement (150kHz~30MHz)

Measuring Uncertainty for a level of confidence of 95%(U=2Uc(y))	2.8dB		
Uncertainty of Radiated Emission Measurement (9kF	Hz~30MHz)		
Measuring Uncertainty for a level of confidence of 95%(U=2Uc(y))	3.5dB		
Uncertainty of Radiated Emission Measurement (30N	MHz~1GHz)		
Measuring Uncertainty for a level of confidence of 95%(U=2Uc(y))	3.91dB		
Uncertainty of Radiated Emission Measurement (1GI	Hz~18GHz)		
Measuring Uncertainty for a level of confidence of 95%(U=2Uc(y))	4.5dB		
Uncertainty of Radiated Emission Measurement (18GHz~40GHz)			
Measuring Uncertainty for a level of confidence of 95%(U=2Uc(y))	4.9dB		
Uncertainty of RF Conducted Measurement (9kHz~4	OGHz)		
Measuring Uncertainty for a level of confidence of 95%(U=2Uc(y))	1.2dB		

END OF REPORT