	之 泂J					
	TEST REPORT					
FCC ID	2AHZ5X70					
Test Report No:	TCT230423E057					
Date of issue:	May 29, 2023					
Testing laboratory:	SHENZHEN TONGCE TESTING LAB					
Testing location/ address:	2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China					
Applicant's name: :	Shenzhen Huafurui Technology Co., Ltd					
Address:	Unit 1401 14/F, Jin qi zhi gu mansion Liu xian, street, Xili, Nan shan district, Shenzhen, China					
Manufacturer's name :	Shenzhen Huafurui Technology Co., Ltd					
Address:	Unit 1401 14/F, Jin qi zhi gu mansion Liu xian, street, Xili, Nan shan district, Shenzhen, China					
Standard(s):	FCC CFR Title 47 Part 15 Subpart C Section 15.225					
Test item description :	Smartphone					
Trade Mark :	CUBOT					
Model/Type reference :	x70 (S)					
Rating(s):	Adapter Information: Model: HJ-FC018K7-US Input: AC 100-240V, 50/60Hz, 0.6A Output: DC 5.0V, 2.0A or DC 7.0V, 2.0A or DC 9.0V, 2.0A, 18.0W Rechargeable Li-ion Battery DC 3.87V					
Date of receipt of test item	Apr. 23, 2023					
Date (s) of performance of test:	Apr. 23, 2023 - May 29, 2023					
Tested by (+signature) :	Rieo LIU Preo Un JONGCE PRO					
Check by (+signature) :	Beryl ZHAO					
Approved by (+signature):	Tomsin					

General disclaimer:

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1. General Product Information

1.1.EUT description

Test item description:	Smartphone
Model/Type reference:	X70
Sample Number	TCT230423E022-0101
Operation Frequency:	13.56MHz
Antenna Type:	FPC Antenna
Antenna Gain:	OdBi
Rating(s):	Adapter Information: Model: HJ-FC018K7-US Input: AC 100-240V, 50/60Hz, 0.6A Output: DC 5.0V, 2.0A or DC 7.0V, 2.0A or DC 9.0V, 2.0A, 18.0W Rechargeable Li-ion Battery DC 3.87V

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

1.2.Model(s) list

None.



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2. Test Result Summary

Requirement	CFR 47 Section IC Paragraph	Result
Antenna requirement	§15.203	PASS
AC Power Line Conducted Emission	§15.207	PASS
Spurious emissions	§15.225/ §15.209	PASS
Occupied Bandwidth	§15.215 (c)	PASS
Frequency stability	§15.225	PASS

Note:

- 1. PASS: Test item meets the requirement.
- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.



3. General Information

3.1. Test Environment and Mode

Operating Environment:				
Condition	Conducted E	Emission	Radiated E	mission
Temperature:	25.0 °C		25.0 °C	
Humidity:	55 % RH		55 % RH	
Test Mode:				
Operation mode:		Keep the EUT with modulatio		is transmitting

The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case(Z axis) are shown in Test Results of the following pages.

3.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
IC Card	1	/	S 1	

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4. Facilities and Accreditations

4.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC Registration No.: 10668A-1
 - SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

4.2. Location

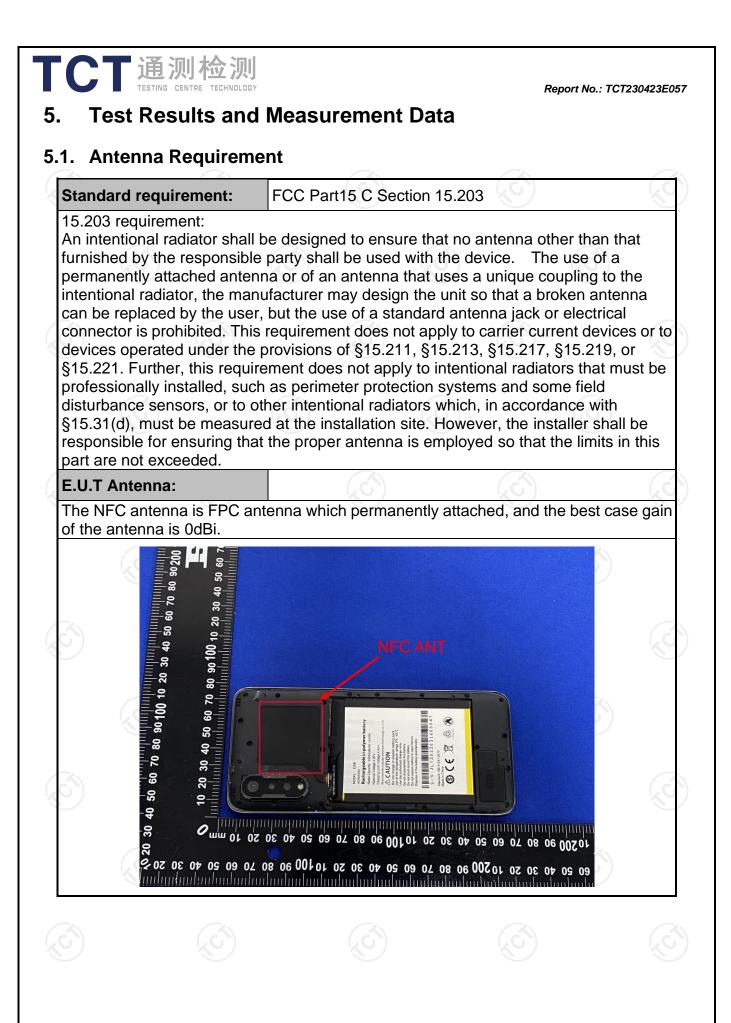
SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China TEL: +86-755-27673339

4.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	± 3.10 dB
2	RF power, conducted	± 0.12 dB
3	Spurious emissions, conducted	± 0.11 dB
4	All emissions, radiated(<1 GHz)	± 4.56 dB
5	All emissions, radiated(1 GHz - 18 GHz)	• ± 4.22 dB
6	All emissions, radiated(18 GHz- 40 GHz)	± 4.36 dB



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5.2. Conducted Emission

5.2.1. Test Specification

Test Requirement:	FCC Part15 C Section	15.207			
Test Method:	ANSI C63.10:2013				
Frequency Range:	150 kHz to 30 MHz	(\mathbf{c}^{*})			
Receiver setup:	RBW=9 kHz, VBW=30	RBW=9 kHz, VBW=30 kHz, Sweep time=auto			
Limits:	Frequency range (MHz) 0.15-0.5 0.5-5 5-30	Limit (Quasi-peak 66 to 56* 56 60	dBuV) Average 56 to 46* 46 50		
	Ref	ference Plane	1201		
Test Setup:	LISN 400 AUX Equipment Test table/Insulation Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabiliz Test table height=0.8m	E.U.T E.U.T EMI Recei	ISN Filter AC pow	er K	
Test Mode:	Refer to section 3.1 for	details		C	
Test Procedure:	 The E.U.T is connecting edance stabilizat 500hm/50uH coupled equipment. The peripheral device through a LISN throug	ion network (L.I ing impedance as are also conn- at provides a im termination. (l etup and photog ne are checked f er to find the m equipment and a	S.N.). This provi for the mea ected to the main 50ohm/50uH co Please refer to the raphs). or maximum conc naximum emissio Il of the interface of	des a suring power upling block ducted n, the cables	
	conducted measuren	nent.			



5.2.2. Test Instruments

	Conducted Emission Shielding Room Test Site (843)									
	Equipment	Manufacturer	Model	Serial Number	Calibration Due					
	EMI Test Receiver	R&S	ESCI3	100898	Jul. 03, 2023					
	Line Impedance Stabilisation Newtork(LISN)		NSLK 8126	8126453	Feb. 20, 2024					
	Line-5	тст	CE-05	1	Jul. 03, 2024					
0	EMI Test Software	Shurple Technology	EZ-EMC	, 0	1					











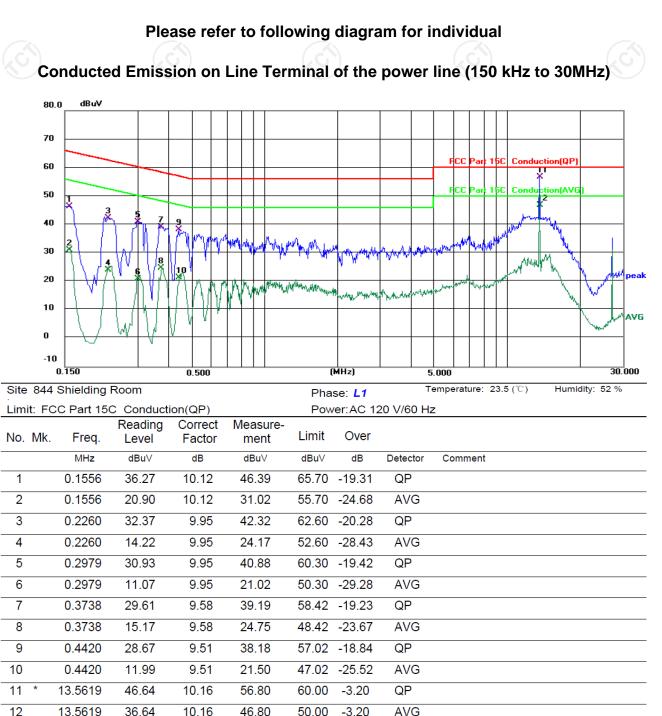






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5.2.3. Test data



Note:

Freq. = Emission frequency in MHz Reading level ($dB\mu V$) = Receiver reading

Corr. Factor (dB) = LISN factor + Cable loss

Measurement $(dB\mu V) = Reading \, level \, (dB\mu V) + Corr. Factor \, (dB)$

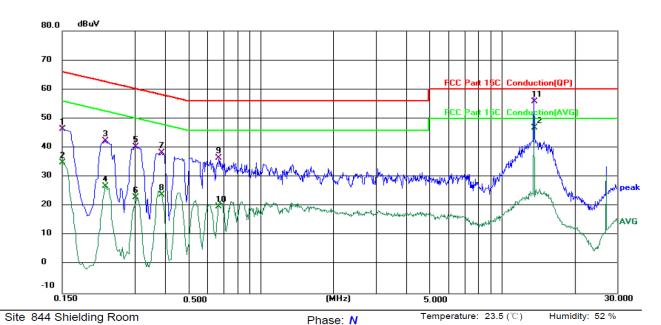
Limit $(dB\mu V) = Limit$ stated in standard

Margin (dB) = Measurement (dB μ V) – Limits (dB μ V)

Q.P. =Quasi-Peak, AVG =average

 * is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz

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Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)

					1 Hub	.		
Limit: FC	CC Part 15	C Conducti	on(QP)		Powe	er:AC 120	0 V/60 Hz	
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBu∀	dB	Detector	Comment
1	0.1500	36.31	10.09	46.40	66.00	-19.60	QP	
2	0.1500	24.69	10.09	34.78	56.00	-21.22	AVG	
3	0.2260	32.37	9.95	42.32	62.60	-20.28	QP	
4	0.2260	16.75	9.95	26.70	52.60	-25.90	AVG	
5	0.3019	30.75	9.64	40.39	60.19	-19.80	QP	
6	0.3019	13.40	9.64	23.04	50.19	-27.15	AVG	
7	0.3860	28.68	9.56	38.24	58.15	-19.91	QP	
8	0.3860	14.34	9.56	23.90	48.15	-24.25	AVG	
9	0.6700	27.05	9.30	36.35	56.00	-19.65	QP	
10	0.6700	10.50	9.30	19.80	46.00	-26.20	AVG	
11	13.5619	45.67	10.23	55.90	60.00	-4.10	QP	
12 *	13.5619	36.67	10.23	46.90	50.00	-3.10	AVG	

Note:

Freq. = Emission frequency in MHz

Reading level $(dB\mu V) = Receiver reading$

Corr. Factor (dB) = LISN factor + Cable loss

Measurement ($dB\mu V$) = Reading level ($dB\mu V$) + Corr. Factor (dB)

Limit $(dB\mu V) = Limit$ stated in standard

 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$

Q.P. =Quasi-Peak

AVG =average

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz



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5.3. Radiated Emission Measurement

5.3.1. Test Specification

Test Requirement:	FCC Part15	C Section	15.225	No.	X	
Test Method:	ANSI C63.10: 2013					
Frequency Range:	9 kHz to 1000 MHz					
Measurement Distance:	3 m					
Antenna Polarization:	Horizontal &	Vertical				
	Frequency	Detector	RBW	VBW	Remark	
	9kHz- 150kHz	Quasi-peak		1kHz	Quasi-peak Valu	
Receiver Setup:	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Valu	
	30MHz-1GHz	Quasi-peak	120kHz	z 300kHz	Quasi-peak Valu	
	FCC Part15	1			(\mathcal{S})	
	Frequer (MHz		Limit (uV/m @30m)	Limit (dBuV/n @3m)	n Detector	
	13.110-13	3.410	106	80.5	QP	
	13.410-13		334	90.5	QP	
	13.553-13.567		15848	124.0	QP	
	13.567-13	.7110	224	90.5	QP	
	13.710-14 Note: RF Voltage		106	80.5	QP	
	(MHz)			(dB µ V/m)	Detector	
	0.009-0.490	3	2	20log 2400/F (kHz) + 80	QP	
Limit:	0.490-1.705	3	2	0log 24000/F (kHz) + 40	QP	
Limit:	0.490-1.705	3	6)	0	QP QP	
Limit:			6)	(kHz) + 40		
Limit:	1.705-30	3	6)	(kHz) + 40 20log 30 + 40	QP	
Limit:	1.705-30 30-88	3	6)	(kHz) + 40 20log 30 + 40 40.0	QP QP	
Limit:	1.705-30 30-88 88-216	3 3 3	6)	(kHz) + 40 20log 30 + 40 40.0 43.5	QP QP QP	

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	 The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber in below 1GHz. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 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. 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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.
Test setup:	For radiated emissions below 30MHz Distance = 3m Computer Pre-Amplifier Computer Pre-Amplifier Receiver 30MHz to 1GHz FUT Table 0.8m Table 0.8m Computer Receiver Computer Receiver Computer Receiver Computer Receiver Computer Receiver Computer Receiver Computer Receiver Computer Receiver Computer Receiver Computer Receiver Computer Receiver Computer Receiver Computer Receiver Computer Computer Receiver Computer Computer Receiver Computer Computer Receiver Computer Computer Receiver Computer Computer Computer Receiver Computer C
Test Mode:	Refer to section 3.1 for details
Test results:	PASS

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5.3.2. Test Instruments

Radiated Emission Test Site (966) Name of Serial									
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due					
EMI Test Receiver	R&S	ESIB7	100197	Jul. 03, 2023					
Spectrum Analyzer	R&S	FSQ40	200061	Jul. 03, 2023					
Pre-amplifier	SKET	LNPA_0118G- 45	SK20210121 02	Feb. 20, 2024					
Pre-amplifier	SKET	LNPA_1840G- 50	SK20210920 3500	Feb. 20, 2024					
Pre-amplifier	HP	8447D	2727A05017	Jul. 03, 2023					
Loop antenna	Schwarzbeck	FMZB1519B	00191	Jun. 11, 2023					
Broadband Antenna	Schwarzbeck	VULB9163	340	Jul. 05, 2023					
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jul. 05, 2023					
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Feb. 24, 2024					
Coaxial cable	SKET	RC-18G-N-M	/	Feb. 24, 2024					
Coaxial cable	SKET	RC_40G-K-M	1	Feb. 24, 2024					
EMI Test Software	Shurple Technology	EZ-EMC	1	1					



_			
Frequency (MHz)	Emission (dBuV/m)	Limits (dBuV/m)	Detecto
13.56	58.23	124.0	QP

F	requency (MHz)	Emission (dBuV/m)	Limits (dBuV/m)	Detector	Margin (dB)
	13.56	58.23	124.0	QP	-65.77

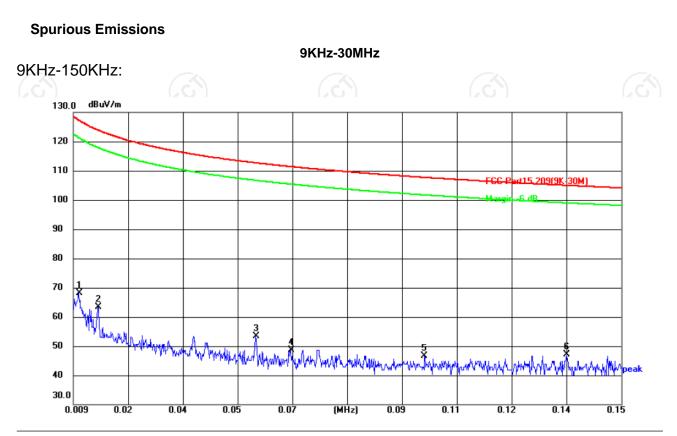
5.3.3. Test Data

Field Strength of Fundamental

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Site: #3 3m Anechoic Chamber

Limit: FCC Part15 200/0K 20M

Polarization: Coaxial

Power:DC 3.87 V

Temperature: 25.8(°C) Humidity: 53 %

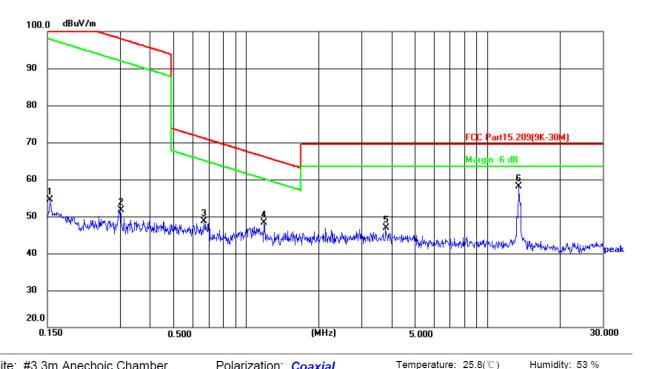
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_imit:	FCC	Part	5.209	(9K-30M)	

Factor Level Limit Margin Frequency Reading No. Detector P/F Remark (MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) 0.0104 47.32 20.72 68.04 127.26 1 * -59.22 Ρ peak 2 0.0154 42.64 20.67 63.31 123.85 -60.54 Ρ peak 3 0.0560 32.67 20.76 53.43 122.64 Ρ -69.21 peak 4 0.0649 27.62 20.94 48.56 111.36 -62.80 Ρ peak 5 0.0995 25.56 21.07 46.63 107.65 -61.02 Ρ peak peak 6 0.1358 26.89 20.27 47.16 104.95 -57.79 Ρ



150KHz-30MHz:



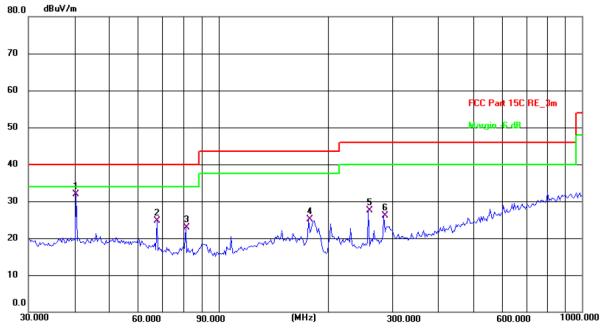
Site: #3 3m Anechoic Chamber Temperature: 25.8(°C) Polarization: Coaxial Limit: FCC Part15.209(9K-30M) Power:DC 3.87 V Reading Margin Frequency Factor Level Limit No. Detector P/F Remark (dBuV) (MHz) (dB/m)(dBuV/m) (dBuV/m) (dB) 0.1538 33.74 20.72 54.46 -49.41 Ρ 103.87 1 peak 0.3010 51.76 98.03 Ρ 2 30.69 21.07 -46.27 peak Ρ 0.6700 26.69 21.92 48.61 71.09 -22.48 3 peak 25.25 Ρ 4 1.1891 23.05 48.30 66.12 -17.82 peak 47.00 69.50 Ρ 5 3.7868 18.69 28.31 -22.50 peak * 13.4524 19.66 58.13 69.50 Ρ 6 38.47 -11.37 peak

Note : 1) Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier

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Horizontal:



Site: #1 3m Anechoic Chamber				imber Polarization: Horizontal			Temperature: 26.3(C)	Humidity: 55 %			
Ļ	imit: F	CC Part 15C F	RE_3m				Power:	DC 3.87	V		
	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark	
ſ	1 *	40.5591	17.67	14.17	31.84	40.00	-8.16	QP	Ρ		
	2	67.6751	13.43	11.33	24.76	40.00	-15.24	QP	Ρ		
	3	81.2117	13.45	9.45	22.90	40.00	-17.10	QP	Ρ		
	4	176.8878	12.74	12.44	25.18	43.50	-18.32	QP	Ρ		
	5	258.3264	14.95	12.62	27.57	46.00	-18.43	QP	Ρ		
	6	284.9767	12.53	13.48	26.01	46.00	-19.99	QP	Ρ		

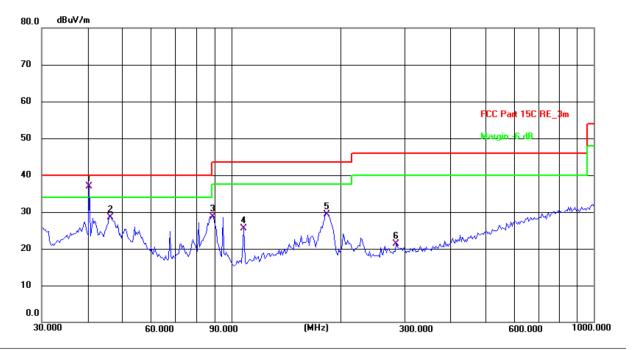
Cite: #1 2mm Am achaia Champh Delorizatio Temperature: 26.3(C) Humidity: 55.04 Havin . .

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Vertical:



Site: #1 3m Anechoic Chamber Polarization:			zation: Vo	ertical			Temperature: 2	26.3(C)	Humidity: 55 %			
L	.imit: FCC Part 15C RE_3m Power: DC 3.87 V											
	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark		
ľ	1 *	40.5591	22.76	14.17	36.93	40.00	-3.07	QP	Р			
	2	46.3402	14.72	13.82	28.54	40.00	-11.46	QP	Р			
	3	88.9637	19.08	9.55	28.63	43.50	-14.87	QP	Р			
ſ	4	108.2664	14.22	11.32	25.54	43.50	-17.96	QP	Р			
	5	183.2005	17.95	11.41	29.36	43.50	-14.14	QP	Ρ			
	6	284.9766	7.74	13.48	21.22	46.00	-24.78	QP	Р			

Note : 1) Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier

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5.4. Occupied Bandwidth

5.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.215(c)
Test Method:	ANSI C63.10: 2013
Limit:	N/A
Test Procedure:	 According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. Set to the maximum power setting and enable the EUT transmit continuously. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel; RBW≥1% of the 20 dB bandwidth; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. Measure and record the results in the test report.
Test setup:	Spectrum Analyzer
Test Mode:	Refer to section 3.1 for details
Test results:	PASS

5.4.2. Test Instruments

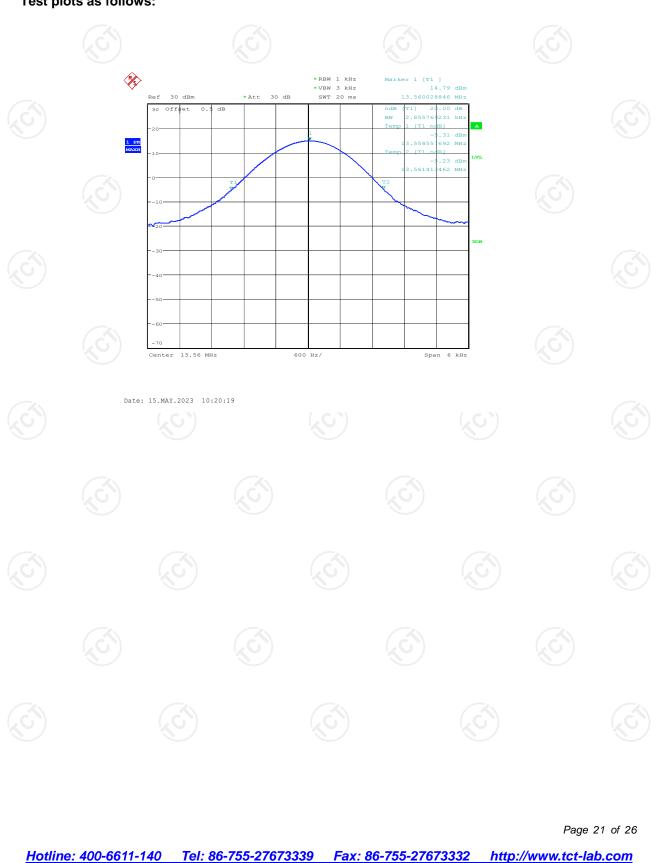
RF Test Room								
Equipment	Manufacturer	Model	Serial Number	Calibration Due				
Spectrum Analyzer	R&S	FSU	200054	Jul. 04, 2023				

5.4.3. Test data

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Frequency(MHz)	20dB Occupy Bandwidth (kHz)	Limit (kHz)	Conclusion
13.56	2.86	· · ·	PASS

Test plots as follows:



5.5. Frequency stability

5.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.225					
Test Method:	ANSI C63.10 : 2013					
Operation mode:	Refer to item 3.1					
Limit:	+/-0.01%					
Test Setup:	Spectrum Analyzer Thermal Chamber					
Test Procedure:	 The equipment under test was connected to an external DC power supply and input rated voltage. RF output was connected to a spectrum analyzer. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -20°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +55°C reached. Repeat step measure with a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C 					
Test Result:	PASS					

5.5.2. Test Instruments

	RF Test Room								
Equipment	Manufacturer	Model	Serial Number	Calibration Due					
Spectrum Analyzer	R&S	FSU	200054	Jul. 04, 2023					
DC power supply	Kingrang	KR3005K		Jul. 04, 2023					

5.5.3. Test Data

Voltage (Vdc)	Temperature (℃)	Frequency (MHz)	Deviation (%)	Limit (%)
3.87	-20	13.560260	0.00192	(70)
3.87	-10	13.560218	0.00161	
3.87	0	13.560140	0.00103	
3.87	10	13.560269	0.00198	
3.87	20	13.560162	0.00119	$(\mathbf{x}\mathbf{G}^{\mathbf{v}})$
3.87	30	13.560284	0.00209	+/-0.01%
3.87	40	13.560206	0.00152	
3.87	50	13.560214	0.00158	
3.87	55	13.560208	0.00153	
4.35	20	13.560170	0.00125	
3.5	20	13.560162	0.00119	
			CI.	<u> </u>

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