

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

	15 SUBPART C TEST REPORT
Report Reference No:	
FCC ID:	2BAQF-TF-D01
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Date of issue:	Jan. 02, 2024
Testing Laboratory Name:	Shenzhen CTA Testing Technology Co., Ltd.
Address	Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Baoʻan District, Shenzhen, China
Applicant's name:	Shenzhen Qishun Innovation Technology Development Co., LTD
Address:	1906, Block A, RongchuangZhihui Building, Minzhi Street, Longhua District, Shenzhen, China
Test specification	
Test specification:	FCC Rules and Regulations Part 15 Subpart C (Section 15.209), ANSI C63.10: 2013
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Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China Tel:+86-755 2322 5875 E-mail:cta@cta-test.cn Web:http://www.cta-test.cn

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CTATESTING		
GV Equipment under Tes	t · TRANSFORMERS Mobile	Power Supply-Magnetic suction model
Model /Type	: TF-D01	CTA TESTING
Listed Models	: TF-D11, TF-D12, TF-D13,	
Applicant	: Shenzhen Qishun Innova	ation Technology Development Co., LTD
Address	1906, Block A, Rongchuar District, Shenzhen, China	ngZhihui Building, Minzhi Street, Longhua
Manufacturer	: Shenzhen Qishun Innova	ation Technology Development Co., LTD
Address	: 1906, Block A, Rongchuar District, Shenzhen, China	ngZhihui Building, Minzhi Street, Longhua
TATES	G	
Test	Result:	PASS
	ly corresponds to the test sample.	CTATES1
It is not permitted t laboratory.	to copy extracts of these test res	ult without the written permission of the t
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		TATESTING
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TEST STANDARDS 1

The tests were performed according to following standards:

FCC Rules and Regulations Part 15 Subpart C (Section 15.207): Conducted limits. FCC Rules and Regulations Part 15 Subpart C (Section 15.209): Radiated emission limits; general requirements. ANSI C63.10: 2013: American National Standard for Testing Unlicensed Wireless Devices

2 SUMMARY

2.1 General Remarks

2.1 General Remarks		TATESTING
Date of receipt of test sample		Dec. 26, 2023
Testing commenced on		Dec. 26, 2023
Testing concluded on	:	Jan. 02, 2024

2.2 Product Description

	Testing commenced on		Dec. 26, 2023	C C C C C C C C C C C C C C C C C C C	
	Testing concluded on	: ,	Jan. 02, 2024	Cont	Con C
	2.2 Product Descripti	on			
TE	Product Name:		TRANSFORMER	S Mobile Power Supply-Magnetic	suction model
	Model/Type reference:	TEST	TF-D01	.6	
	Hardware version:	~	V1.0	TESTINC	
	Software version:		V1.0	TA	STING
Ī	Test samples ID:			# (Engineer sample), # (Normal sample)	CTATES
	Power supply:			•	
	Adapter information (Auxiliary test supplied by test	t Lab):	Input: AC 100-240 Output: DC 5V 3A		3
	Operation frequency:	a construction	110KHz - 205KHz	CTATES	
Ī	Modulation type:		ASK	(CT)	
-	Antenna type:		Loop coil antenna		(GA)

2.3 Description of the test mode

Equipment under test was operated during the measurement under the following conditions: Charging and communication mode

Test Mo	Test Modes:				
Mode 1	Wireless Charging	CTA	Recorded		
Mode 2	Standby	Gua	Pre-tested		
Note: All test modes were pre-tested, but we only recorded the worst case in this report.					

2.4 **Special Accessories**

Follow auxiliary equipment(s) test with EUT that provided by the manufacturer or laboratory is listed as follow:

Description	Manufacturer	Model	Technical Parameters	Certificate	Provided by
iPhone	Apple	iphone 13	TEST	1	/
	fications ons were impleme	ented to meet t	esting criteria.	ESTINC	

2.5 Modifications

3 TEST ENVIRONMENT

Address of the test laboratory 3.1

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations: FCC-Registration No.: 517856 Designation Number: CN1318

Shenzhen CTA Testing Technology Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA-Lab Cert. No.: 6534.01

Shenzhen CTA Testing Technology Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

3.3 Environmental conditions

During the measurement the environmental conditions were within the listed ranges: Radiated Emission

24 ° C
ATA
45 %
950-1050mbar

AC Power Conducted Emission:

	Temperature:	25 ° C
1	IN ON	
	Humidity:	46 %
	-INI	2
	Atmospheric pressure:	950-1050mbar

Atmospheric pressure:	950-1050mbar
Conducted testing:	ESTING
Temperature:	25 ° C
	C
Humidity:	44 %
	and the second se
Atmospheric pressure:	950-1050mbar

3.4 Summary of measurement results

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mpliant
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npliant
1

Statement of the measurement uncertainty 3.5

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen CTA Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device. Hereafter the best measurement capability for Shenzhen CTA Testing Technology Co., Ltd. :

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	9KHz~30MHz	3.02 dB	(1)
Radiated Emission	30~1000MHz	4.06 dB	(1)
Radiated Emission	1~18GHz	5.14 dB	(1)
Radiated Emission	18-40GHz	5.38 dB	(1)
Conducted Disturbance	0.15~30MHz	2.14 dB	(1)
Output Peak power	30MHz~18GHz	0.55 dB	(1)
Power spectral density	/	0.57 dB	(1)
Spectrum bandwidth	/	1.1%	(1)
Radiated spurious emission (30MHz-1GHz)	30~1000MHz	4.10 dB	(1)
Radiated spurious emission (1GHz-18GHz)	1~18GHz	4.32 dB	(1)
Radiated spurious emission (18GHz-40GHz)	18-40GHz	5.54 dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3.6 Equipments Used during the Test

	Model No.	Equipment No.	Calibration Date	Calibr Due [
R&S	ENV216	CTA-308	2023/08/02	2024/0
R&S	ENV216	CTA-314	2023/08/02	2024/0
R&S	ESPI	CTA-307	2023/08/02	2024/0
R&S	ESCI	CTA-306	2023/08/02	2024/0
Agilent	N9020A	CTA-301	2023/08/02	2024/0
R&S	FSP	CTA-337	2023/08/02	2024/0
Agilent	N5182A	CTA-305	2023/08/02	2024/0
g 1, Yibaolai Industrial	Park, Qiaotou Comm	unity, Fuhai Street,		nenzhen, ["]
	R&S R&S R&S Agilent R&S Agilent Shenzher 1, Yibaolai Industrial	R&S ENV216 R&S ESPI R&S ESCI Agilent N9020A R&S FSP Agilent N5182A Shenzhen CTA Testing Techn 1, Yibaolai Industrial Park, Qiaotou Communication	R&SENV216CTA-314R&SESPICTA-307R&SESCICTA-306AgilentN9020ACTA-301R&SFSPCTA-337AgilentN5182ACTA-305Shenzhen CTA Testing Technology Co., Ltd.g 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street,	R&S ENV216 CTA-314 2023/08/02 R&S ESPI CTA-307 2023/08/02 R&S ESCI CTA-306 2023/08/02 Agilent N9020A CTA-301 2023/08/02 R&S FSP CTA-301 2023/08/02 R&S FSP CTA-301 2023/08/02 Agilent N9020A CTA-307 2023/08/02 Shenzhen N5182A CTA-305 2023/08/02 Shenzhen CTA Testing Technology Co., Ltd. Street, Bao'an District, SH

Report No.: CTA23122602001

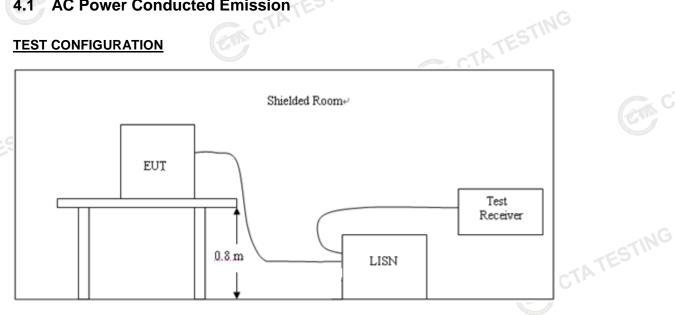
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			CTP CTP			ATESTING	
	RF Test Software	Tonscend	TS®JS1120	3.1.46	N/A	N/A	
ATE	RF Test Software	Tonscend	TS®JS1120-3	3.1.65	N/A	N/A	
-5	EMI Test Software	Tonscend	TS®JS32-CE	5.0.0.1	N/A	N/A	
	EMI Test Software	Tonscend	TS®JS32-RE	5.0.0.2	N/A	N/A	T.P
	Test Equipment	Manufacturer	Model No.	Version number	Calibration Date	Calibration Due Date	
		Genwarzbeck			2020/00/02	2027/00/01	
	Amplifier	Schwarzbeck	BBV9719	CTA-406	2023/08/02	2024/08/01	-
	Power Sensor	Agilent	U2021XA	CTA-405	2023/08/02	2024/08/01	1
	Automated filter bank	G Tonscend	JS0806-F	CTA-404	2023/08/02	2024/08/01	
	High-Pass Filter	XingBo	XBLBQ-GTA27	CTA-403	2023/08/02	2024/08/01	
	High-Pass Filter	XingBo	XBLBQ-GTA18	CTA-402	2023/08/02	2024/08/01	
	Directional coupler	NARDA	4226-10	CTA-303	2023/08/02	2024/08/01	2
	Amplifier	Taiwan chengyi	EMC051845B	CTA-313	2023/08/02	2024/08/01	
	Amplifier	Schwarzbeck	BBV 9745	CTA-312	2023/08/02	2024/08/01	_
ATE	Horn Antenna	Beijing Hangwei Dayang	OBH100400	CTA-336	2021/08/07	2024/08/06	
	Loop Antenna	Zhinan	ZN30900C	CTA-311	2023/10/17	2024/10/16	
	Horn Antenna	Schwarzbeck	BBHA 9120D	CTA-309	2023/10/13	2024/10/12	1
	Ultra-Broadband Antenna	Schwarzbeck	VULB9163	CTA-310	2023/10/17	2024/10/16	
	Temperature and humidity meter	Chigo	ZG-7020	CTA-326	2023/08/02	2024/08/01	
	WIDEBAND RADIO COMMUNICATION TESTER	CMW500	R&S	CTA-302	2023/08/02	2024/08/01	
	Analog Signal Generator	G R&S	SML03	CTA-304	2023/08/02	2024/08/01	

TEST CONDITIONS AND RESULTS 4

AC Power Conducted Emission 4.1

TEST CONFIGURATION



TEST PROCEDURE

- 1, The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
- 2, Support equipment, if needed, was placed as per ANSI C63.10.
- 3, All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4, If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5, All support equipments received AC power from a second LISN, if any.
- 6, The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7, Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.

AC Power Conducted Emission Limit

For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following :

Limit (dBuV)
Quasi-peak	Average
66 to 56*	56 to 46*
56	46
60	50
	Quasi-peak 66 to 56* 56

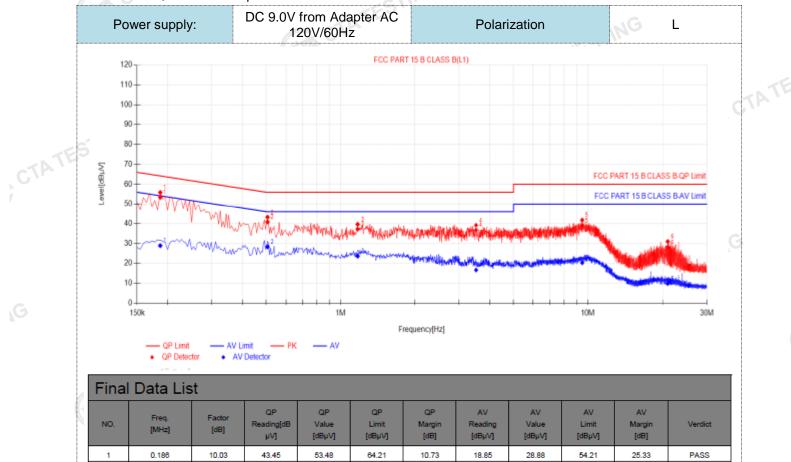
Decreases with the logarithm of the frequency. CTATE

TATE

CTA TESTING

TEST RESULTS

1. Both 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz power supply have been tested, only the worst result of 120 VAC, 60 Hz was reported as below:

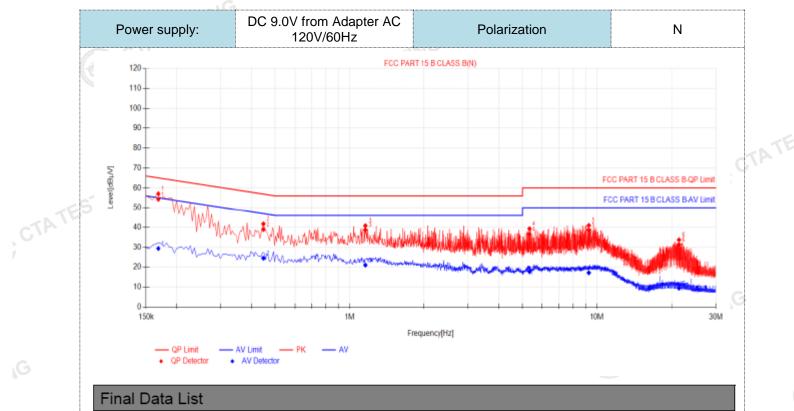


1	0.186	10.03	43.45	53.48	64.21	10.73	18.85	28.88	54.21	25.33	PASS
2	0.5055	10.02	30.79	40.81	56.00	15.19	18.31	28.33	46.00	17.67	PASS
3	1.1715	9.90	27.33	37.23	56.00	18.77	13.71	23.61	46.00	22.39	PASS
4	3.5295	9.96	26.79	36.75	56.00	19.25	6.68	16.64	46.00	29.36	PASS
5	9.4785	10.26	28.86	39.12	60.00	20.88	10.07	20.33	50.00	29.67	PASS
6	20.8725	10.44	17.58	28.02	60.00	31.98	-0.54	9.90	50.00	40.10	PASS
	•	•	•	•	•	•				•	•

Note:1).QP Value ($dB\mu V$)= QP Reading ($dB\mu V$)+ Factor (dB)

- 2). Factor (dB)=insertion loss of LISN (dB) + Cable loss (dB)
- CTATESTING 3). QPMargin(dB) = QP Limit (dB μ V) - QP Value (dB μ V)
- 4). AVMargin(dB) = AV Limit (dB μ V) AV Value (dB μ V)

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NO	Freq. (MHz)	Factor [dB]	QP Reading[dB µV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict	
1	0.168	10.08	44.21	54.29	65.06	10.77	19.28	29.36	55.06	25.70	PASS	
2	0.447	9.97	28.94	38.91	56.93	18.02	14.54	24.51	46.93	22.42	PASS	
3	1.158	10.17	28.52	38.69	56.00	17.31	10.85	21.02	46.00	24.98	PASS	
4	5.3295	10.14	26.32	36.46	60.00	23.54	7.59	17.73	50.00	32.27	PASS	
5	9.267	10.41	28.22	38.63	60.00	21.37	6.77	17.18	50.00	32.82	PASS	
6	21.2955	10.61	20.73	31.34	60.00	28.66	-1.15	9.46	50.00	40.54	PASS	
	:1).QP Value actor (dB)=ir	,		•	• •			-	-		(ch)	CTP
	actor (dB)=ir PMargin(dB			` '		```						

Note:1).QP Value $(dB\mu V) = QP$ Reading $(dB\mu V) +$ Factor (dB)2). Factor (dB)=insertion loss of LISN (dB) + Cable loss (dB) 3). QPMargin(dB) = QP Limit (dB μ V) - QP Value (dB μ V)

4). AVMargin(dB) = AV Limit (dB μ V) - AV Value (dB μ V) CTATESTING

4.2 **Radiated Emission**

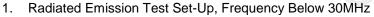
Limit

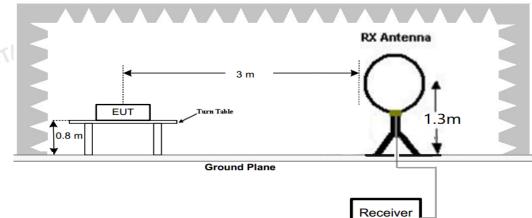
For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission out of authorized band shall not exceed the following table at a 3 meters measurement distance.

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a)

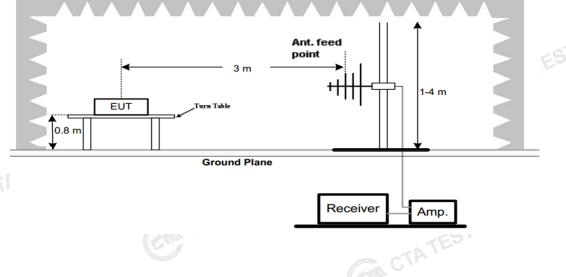
		Rad	diated emission limits	Contra C
	Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)
	0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)
CTATE	0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)
, GVr	1.705-30	3	20log(30)+ 40log(30/3)	30
1	30-88	3	40.0	100
	88-216	3	43.5	150
	216-960	3	46.0	200
	Above 960	3	54.0	500
				CTATE
	TEST CONFIGURATION	ON		

TEST CONFIGURATION





Radiated Emission Test Set-Up, Frequency below 1000MHz 2.



Report No.: CTA23122602001

- 1. Below 1GHz measurement the EUT is placed on a turntable which is 0.8m above ground plane.
- 2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT
- And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- Repeat above procedures until all frequency measurements have been completed. 4.
- 5. Radiated emission test frequency band from 9KHz to 1000MHz.
- The distance between test antenna and EUT as following table states: 6.

	Test Frequency range	Test Antenna Type	Test Distance		
	9KHz-30MHz	Active Loop Antenna	3 3		
2	30MHz-1GHz	Bilog Antenna			
		A H H A H H A A			

CTATEST. Setting test receiver/spectrum as following table states:

	Test Frequency range	Test Receiver/Spectrum Setting	Detector
	9KHz-150KHz	RBW=200Hz/VBW=3KHz,Sweep time=Auto	QP
	150KHz-30MHz	RBW=9KHz/VBW=100KHz,Sweep time=Auto	QP
	30MHz-1GHz	RBW=120KHz/VBW=1000KHz,Sweep time=Auto	QP
		TATES	
R	ESULTS		
			-

TEST RESULTS

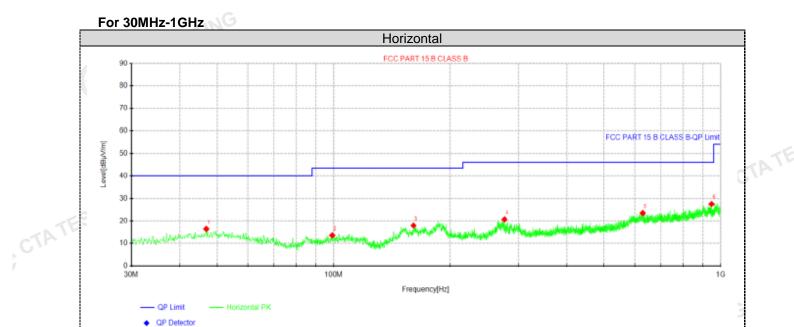
For 9 KHz-30MHz

WORST-CASE RADIATED EMISSION BELOW 30 MHz

				ATE						
<u>rs</u>										
MHz					CTA					
WORST-CASE RADIATED EMISSION BELOW 30 MHz										
Frequency Reading		Antenna Factor	Cable Loss	Emission Levels	Limits at 3m	Margin	Detector Mode			
(dBµV/m)	Loop	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)				
76.10	Loop	23.63	0.02	99.75	104.42	4.67	PK			
55.97	Loop	23.63	0.02	79.62	84.42	4.80	AV			
54.85	Loop	23.51	0.02	78.38	106.78	28.40	PK			
47.61	Loop	23.51	0.02	71.14	86.78	15.64	AV			
46.24	Loop	23.82	-0.17	69.89	98.42	28.53	QP			
42.11	Loop	24.21	-0.28	66.04	94.14	28.10	QP			
36.29	Loop	24.32	-0.3	60.31	72.81	12.50	QP			
				A PLO CANAN		See.	etr			
	ΓS MHz Reading (dBμV/m) 76.10 55.97 54.85 47.61 46.24 42.11	Image: FS WORST-0 MHz WORST-0 Reading Polar (dBµV/m) Loop 76.10 Loop 55.97 Loop 54.85 Loop 47.61 Loop 46.24 Loop 42.11 Loop	FS MHz WORST-CASE RADI/ Reading Polar Antenna Factor (dBμV/m) Loop (dB/m) 76.10 Loop 23.63 55.97 Loop 23.63 54.85 Loop 23.51 47.61 Loop 23.82 42.11 Loop 24.21 36.29 Loop 24.32	IS WORST-CASE RADIATED EMIS Reading Polar Antenna Factor Cable Loss (dBµV/m) Loop (dB/m) (dB) 76.10 Loop 23.63 0.02 55.97 Loop 23.63 0.02 54.85 Loop 23.51 0.02 46.24 Loop 23.82 -0.17 42.11 Loop 24.21 -0.28 36.29 Loop 24.32 -0.3	IS WORST-CASE RADIATED EMISSION BELO Reading Polar Antenna Factor Cable Loss Emission Levels (dBμV/m) Loop (dB/m) (dB) (dBμV/m) 76.10 Loop 23.63 0.02 99.75 55.97 Loop 23.51 0.02 78.38 47.61 Loop 23.51 0.02 71.14 46.24 Loop 23.82 -0.17 69.89 42.11 Loop 24.32 -0.3 60.31	Isometry WORST-CASE RADIATED EMISSION BELOW 30 MHz WORST-CASE RADIATED EMISSION BELOW 30 MHz Limits at 3m Reading Polar Antenna Factor Cable Loss Emission Levels Limits at 3m (dBµV/m) Loop (dB/m) (dB) (dBµV/m) (dBµV/m) 76.10 Loop 23.63 0.02 99.75 104.42 55.97 Loop 23.63 0.02 79.62 84.42 54.85 Loop 23.51 0.02 78.38 106.78 47.61 Loop 23.82 -0.17 69.89 98.42 46.24 Loop 23.82 -0.17 69.89 98.42 42.11 Loop 24.21 -0.28 66.04 94.14 36.29 Loop 24.32 -0.3 60.31 72.81	Image: FS MHz WORST-CASE RADIATED EMISSION BELOW 30 MHz Reading Polar Antenna Factor Cable Loss Emission Levels Limits at 3m Margin (dBµV/m) Loop (dB/m) (dB) (dBµV/m) (dBµV/m) (dB) 76.10 Loop 23.63 0.02 99.75 104.42 4.67 55.97 Loop 23.63 0.02 79.62 84.42 4.80 54.85 Loop 23.51 0.02 78.38 106.78 28.40 47.61 Loop 23.82 -0.17 69.89 98.42 28.53 42.11 Loop 24.21 -0.28 66.04 94.14 28.10 36.29 Loop 24.32 -0.3 60.31 72.81 12.50			

Remark:

- Data of measurement within this frequency range shown "-- in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits and not recorded.
- 2. The test limit distance is 3m limit.
- PK means Peak Value, QP means Quasi Peak Value, AV means Average Value. 3
- 4. F means Fundamental Frequency.
- Emission level (dBuV/m) =Reading + Antenna Factor + Cable Loss. 5.
- Margin value = Limit value- Emission level. 6.



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CTATE

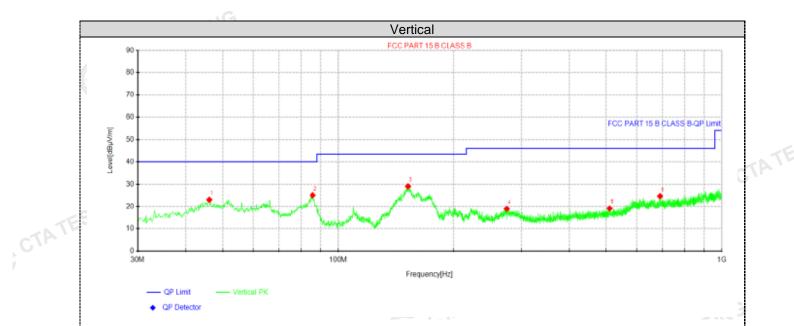
C		Date	1 1 - 4
- 305	Dected	Data	1 151
Sus	pected	Data	LIS

	Suspe	uspected Data List												
	NO.	Freq.	Reading	Level	Factor	Limit	Margin	Height	Angle	Delority				
	NO.	[MHz]	[dBµV]	[dBµV/m]	[dB/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity				
	1	46.8538	28.06	16.43	-11.63	40.00	23.57	100	146	Horizontal				
	2	99.1125	27.15	13.62	-13.53	43.50	29.88	100	134	Horizontal				
	3	160.828	33.99	17.89	-16.10	43.50	25.61	100	65	Horizontal				
	4	276.258	32.76	20.71	-12.05	46.00	25.29	100	317	Horizontal				
2	5	628.611	28.67	23.46	-5.21	46.00	22.54	100	156	Horizontal				
	6	948.105	29.41	27.49	-1.92	46.00	18.51	100	1	Horizontal				

Note:1).Level ($dB\mu V/m$) = Reading ($dB\mu V$)+ Factor (dB/m)

2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)

3). Margin(dB) = Limit (dB μ V/m) - Level (dB μ V/m)



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CTATE

Suspected Data Lis

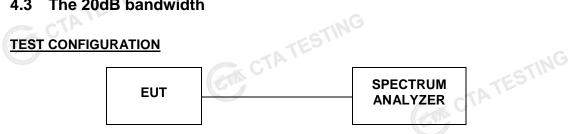
Jush	ecteu Data	LISU							
NO.	Freq.	Reading	Level	Factor	Limit	Margin	Height	Angle	Delority
NO.	[MHz]	[dBµV]	[dBµV/m]	[dB/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	46.1262	34.66	22.99	-11.67	40.00	17.01	100	281	Vertical
2	85.775	41.11	24.97	-16.14	40.00	15.03	100	66	Vertical
3	152.098	45.11	29.04	-16.07	43.50	14.46	100	359	Vertical
4	274.925	31.05	18.96	-12.09	46.00	27.04	100	22	Vertical
5	510.028	28.33	19.14	-9.19	46.00	26.86	100	168	Vertical
6	689.963	29.78	24.56	-5.22	46.00	21.44	100	339	Vertical
Note 1		BuV/m)= Re	ading (dBu	V)+ Fact	or (dB/m)		-	TIN	

Note:1).Level (dBµV/m)= Reading (dBµV)+ Factor (dB/m)

2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)

3). Margin(dB) = Limit (dBµV/m) - Level (dBµV/m)

4.3 The 20dB bandwidth



TEST PROCEDURE

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 20dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equip compliance with the 20dB attenuation specification may base on measurement at the intentional radiator's antenna output terminal unless the intentional radiator uses a permanently attached antenna, in which case compliance shall be deomonstrated by measuring the radiated emissions.

LIMIT

The 20dB bandwidth shall be less than 80% of the permitted frequency band.

TEST RESULTS

Mode	Freq (KHz)	20dB Bandwidth (KHz)	Conclusion
Tx Mode	144.220	2.725	PASS
Contraction of the second	CTA		GTING



Antenna Requirement 4.4

Standard Applicable

Standard Applicable

CTATESTING For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to GTA CTATE ensure that no antenna other than that furnished by the responsible party shall be used with the device.

Antenna Information

The antenna used in this product is a Coil Antenna, The directional gains of antenna used for transmitting is GIA CTATES 0dBi.

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5 Test Setup Photos of the EUT

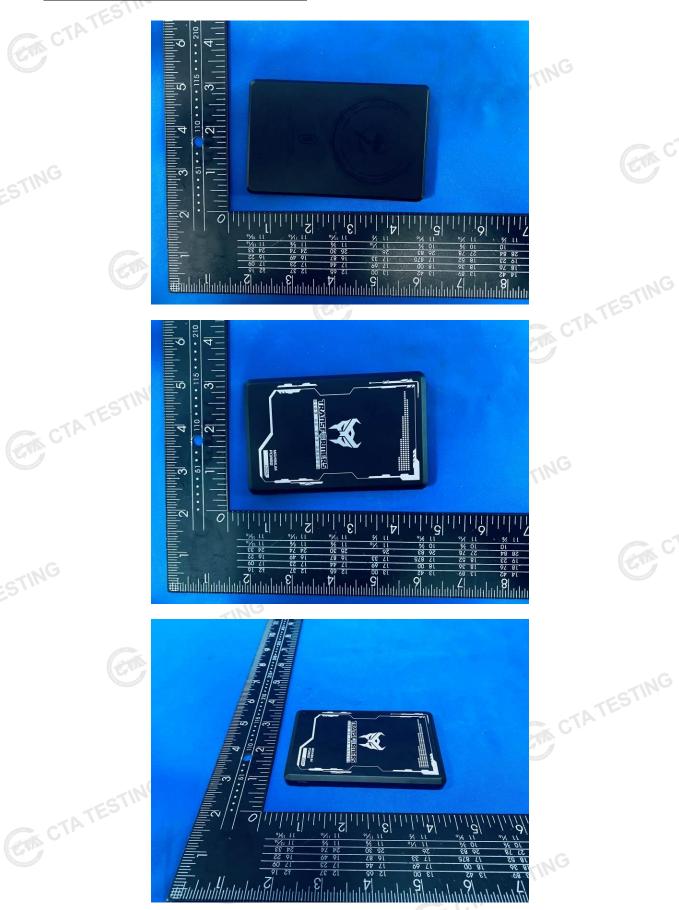


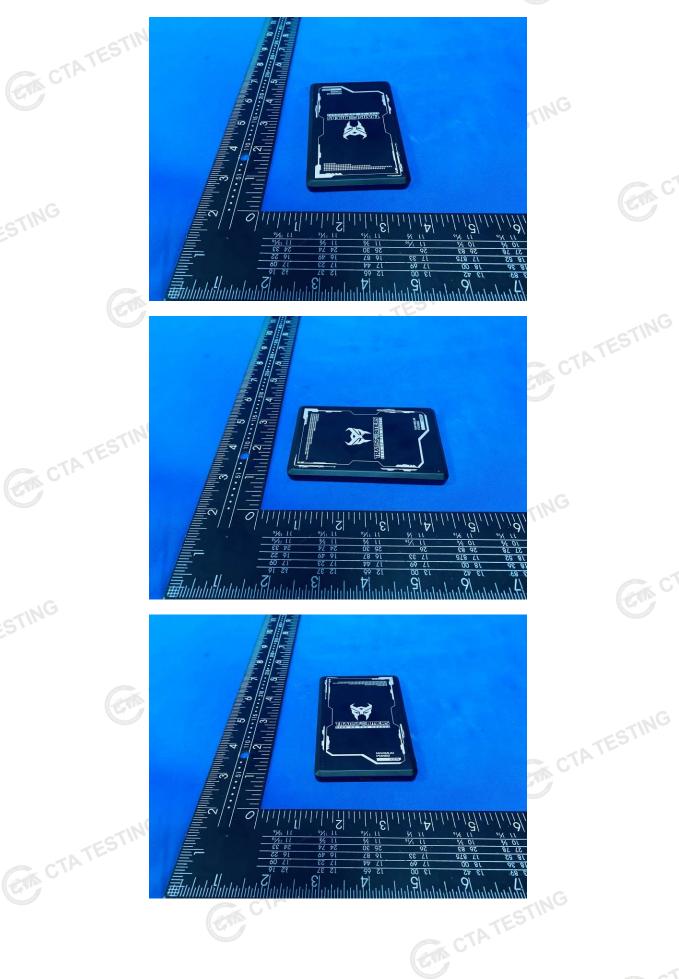




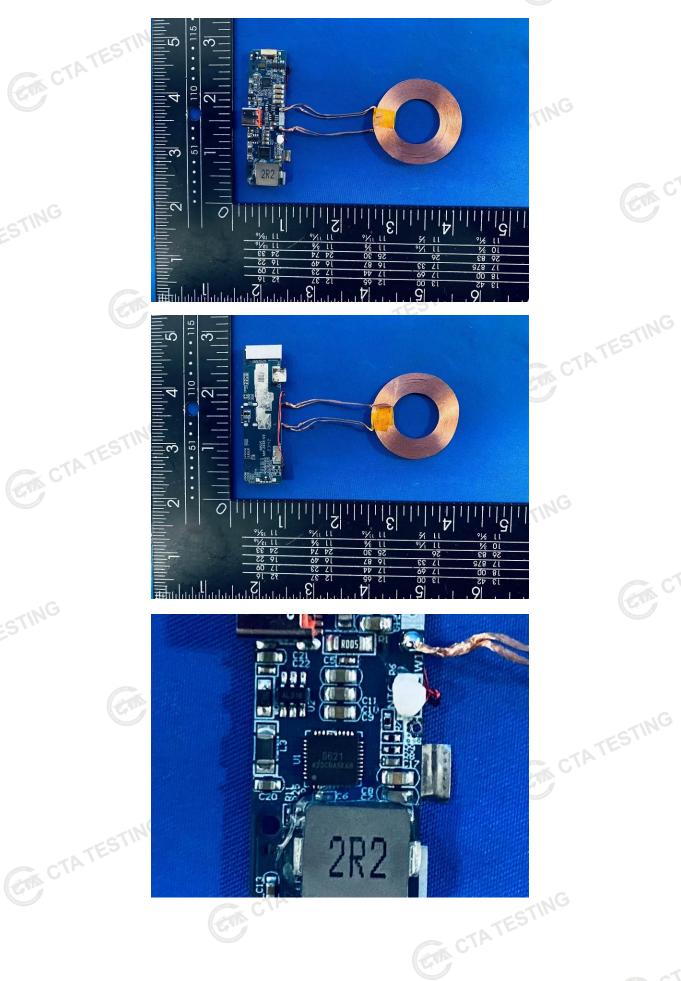
6 PHOTOS OF THE EUT

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