	TEST REPOR	Т				
FCC ID :	AUARTPMST100					
Test Report No::	TCT220217E038	CT220217E038				
Date of issue:	May 25, 2022					
Testing laboratory: :	SHENZHEN TONGCE TESTING	G LAB	75			
Testing location/ address:	TCT Testing Industrial Park Fuq Street, Bao'an District Shenzher Republic of China					
Applicant's name::	THINKCAR TECH CO., LTD.					
Address:	2606, building 4, phase II, Tiana Bantian, Longgang District, She		, community,			
Manufacturer's name :	THINKCAR TECH CO., LTD.	G				
Address:	2606, building 4, phase II, Tiana Bantian, Longgang District, She		, community,			
Standard(s):	FCC CFR Title 47 Part 15 Subpa	art C Section 15.2	31			
Product Name::	THINKTPMS T100, THINKTPM THINKCAR T-Wand100, THINK T-Wand900, THINKCAR T-Wan	CAR T-Wand200,	THINKCAR			
Trade Mark:	THINKCAR	G				
Model/Type reference :	TKTT1, TKTT2, TK900, TKTT4	<i>C</i>				
Rating(s):	Rechargeable Li-ion Battery DC	3.8V				
Date of receipt of test item	Feb. 17, 2022	(S)	(S)			
Date (s) of performance of test:	Feb. 17, 2022 - May 25, 2022		3			
Tested by (+signature) :	Rleo LIU	Pres Grange	ETA			
Check by (+signature) :	Beryl ZHAO	BayComerC	T			
Approved by (+signature):	Tomsin	Tomsitis	B A A			
TONGCE TESTING LAB. TH	oduced except in full, without the his document may be altered or i ly, and shall be noted in the revis apply to the tested sample.	revised by SHENZ	THEN TONGCE			

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TCT通测检测 1. General Product Information

1.1. EUT description

Product Name:	THINKTPMS T100, THINKTPMS T200, THINKTPMS T109, THINKCAR T-Wand100, THINKCAR T-Wand200, THINKCAR T-Wand900, THINKCAR T-Wand400, THINKTPMS T209				
Model/Type reference:	TKTT1				
Sample Number	TCT220217E035-0101				
Operation Frequency:	315MHz, 433.92MHz				
Modulation Technology:	FSK				
Antenna Type:	PCB Antenna				
Antenna Gain:	0dBi				
Rating(s):	Rechargeable Li-ion Battery DC 3.8V				

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

No.		M	odel No.			Test	ed with
1	(3)	(c)	TKTT1				\boxtimes
Other mode	ls	TKTT2,	TK900, TK	TT4			
Note: TKTT1 is layout, on			ivative mode the test data				
	-				O		
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2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna Requirement	§15.203/§15.247 (c)	PASS
Conduction Emission, 0.15MHz to 30MHz	§15.207	PASS
Manually Activated Transmitter	§15.231(a)	PASS
Radiation Emission	§15.231(b), §15.205, §15.209, §15.35	PASS
Occupied Bandwidth	§15.231(c)	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 Environmen	t:				
Condition	Conducted Emission	Radiated Emission			
Temperature:	25.3 °C	24.5 °C			
Humidity:	56 % RH	56 % RH			
Test Mode:		·			
G) TM1:	Keep the EUT in 315M tr	Keep the EUT in 315M transmitting with modulation			
TM2:	Keep the EUT in 433M tr	Keep the EUT in 433M transmitting with modulation			

11012.	
Remark:	All modes have been tested, and the worse mode (TM2) is report only.

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 (Y axis) are shown in Test Results of the following pages.

Per-test mode.

We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:

Axis	Х	Y	Z
Field Strength(dBuV/m)	52.47	55.31	52.59
(\mathcal{S})	(\mathcal{S})	$(\mathcal{A}\mathcal{G})$	(\mathcal{S})

Final Test Mode:

According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup": Y axis (see the test setup photo)

3.2. Description of Support Units

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use.

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
Adapter	1	1		
Sensor	S1	1		

Note: TPMS Service tool TBM0100 has passed FCC DoC test certification and meets the requirements of auxiliary device.

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

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

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Facilities and Accreditations 4.

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

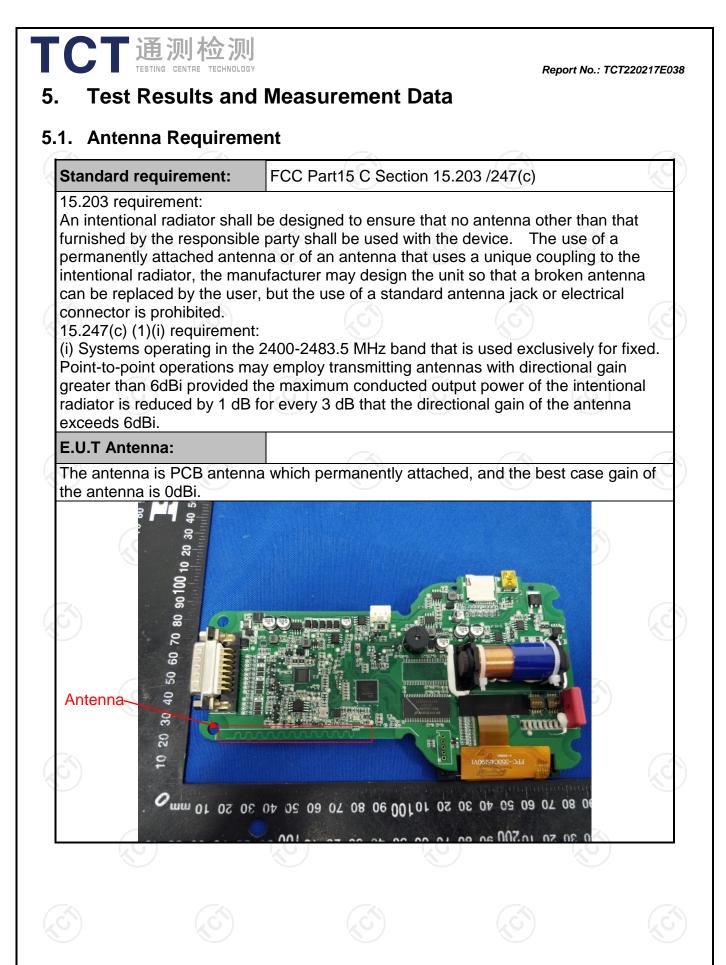
Address: TCT Testing Industrial Park Fuqiao 5th Industrial Zone, Fuhai Street, Bao'an District Shenzhen, Guangdong, 518103, People's Republic of China

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
7	Temperature	± 0.1°C
8	Humidity	± 1.0%



5.2. Conducted Emission

5.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207				
Fest Method:	ANSI C63.4:2014				
Frequency Range:	150 kHz to 30 MHz	150 kHz to 30 MHz			
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	e=auto		
	Frequency range	Limit (dBuV)		
	(MHz)	Quasi-peak	Average		
Limits:	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	Refere	ence Plane			
Test Setup:	AUX Equipment Equipment Test table/Insulation plate Remarkc E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Test table height=0.8m	U.T ane	lter – AC power		
Fest Mode:	Refer to Item 3.1				
Fest Procedure:	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement. 				
Fest Result:	PASS				

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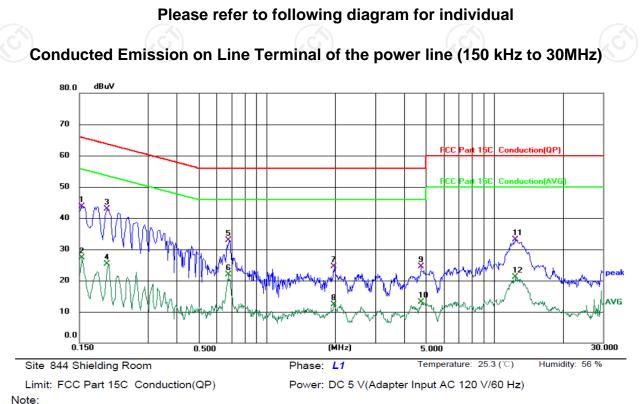
http://www.tct-lab.com

Fax: 86-755-27673332

5.2.2. Test Instruments

Cond	ucted Emission	Shielding R	oom Test Site (8	43)
Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESCI3	100898	Jul. 07, 2022
Line Impedance Stabilisation Newtork(LISN)	Schwarzbeck	NSLK 8126	8126453	Feb. 24, 2023
Line-5	ТСТ	CE-05	N/A	Jul. 07, 2022
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

5.2.3. Test data



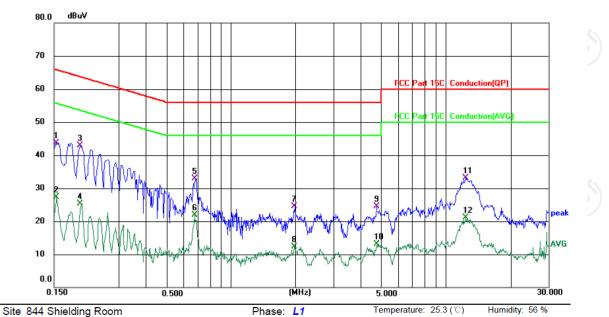
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1539	33.17	10.57	43.74	65.79	-22.05	QP	
2		0.1539	16.68	10.57	27.25	55.79	-28.54	AVG	
3	*	0.1980	32.31	10.54	42.85	63.69	-20.84	QP	
4		0.1980	14.75	10.54	25.29	53.69	-28.40	AVG	
5		0.6780	22.85	10.14	32.99	56.00	-23.01	QP	
6		0.6780	11.68	10.14	21.82	46.00	-24.18	AVG	
7		1.9737	14.42	10.07	24.49	56.00	-31.51	QP	
8		1.9737	2.23	10.07	12.30	46.00	-33.70	AVG	
9		4.7660	14.37	10.18	24.55	56.00	-31.45	QP	
10		4.7660	3.01	10.18	13.19	46.00	-32.81	AVG	
11		12.3978	22.76	10.29	33.05	60.00	-26.95	QP	
12		12.3978	10.76	10.29	21.05	50.00	-28.95	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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Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)

Limit: FCC Part 15C Conduction(QP) Power: DC 5 V(Adapter Input AC 120 V/60 Hz) Note:

No. M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1539	33.17	10.57	43.74	65.79	-22.05	QP	
2	0.1539	16.68	10.57	27.25	55.79	-28.54	AVG	
3 *	0.1980	32.31	10.54	42.85	63.69	-20.84	QP	
4	0.1980	14.75	10.54	25.29	53.69	-28.40	AVG	
5	0.6780	22.85	10.14	32.99	56.00	-23.01	QP	
6	0.6780	11.68	10.14	21.82	46.00	-24.18	AVG	
7	1.9737	14.42	10.07	24.49	56.00	-31.51	QP	
8	1.9737	2.23	10.07	12.30	46.00	-33.70	AVG	
9	4.7660	14.37	10.18	24.55	56.00	-31.45	QP	
10	4.7660	3.01	10.18	13.19	46.00	-32.81	AVG	
11	12.3978	22.76	10.29	33.05	60.00	-26.95	QP	
12	12.3978	10.76	10.29	21.05	50.00	-28.95	AVG	

Note1:

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.

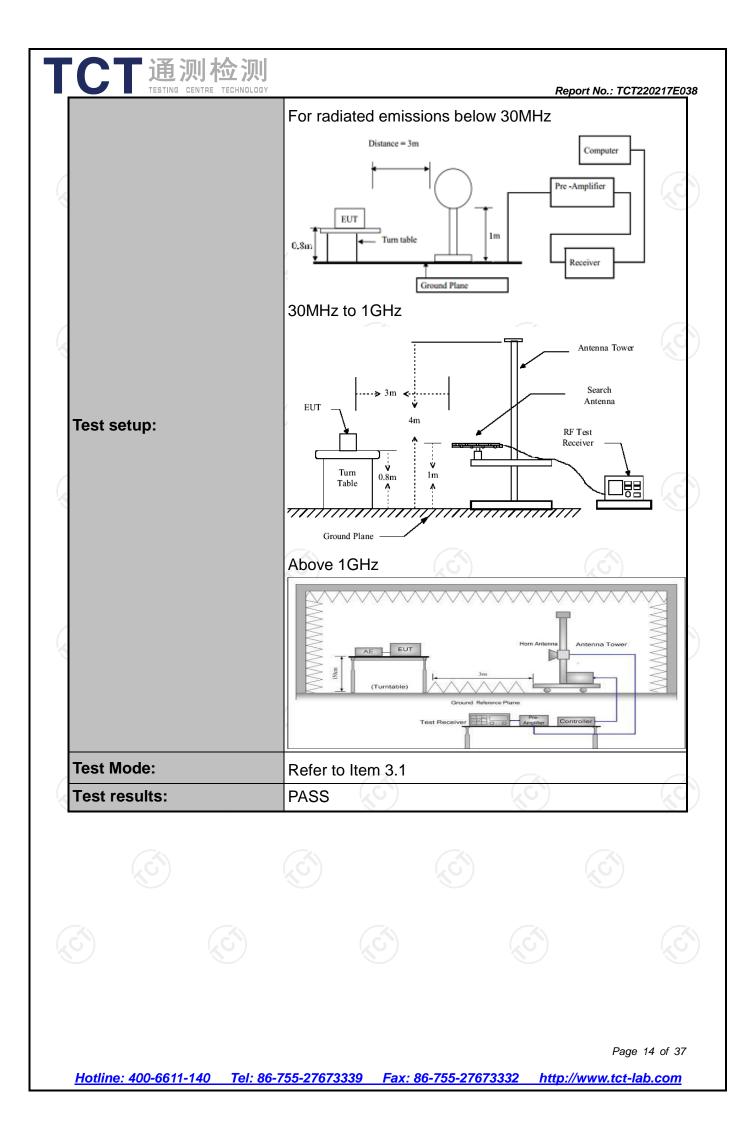
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5.3. Radiated Emission Measurement

5.3.1. Test Specification

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		<u>)</u>							
Test Requirement:	FCC Part15 C Section 15.231(a) and 15.209								
Test Method:	ANSI C63.4: 2014 and ANSI C63.10:2013								
Frequency Range:	9 kHz to 5 GHz 3 m Horizontal & Vertical								
Measurement Distance:									
Antenna Polarization:									
	Frequency	Detector	RBW	VBW	Remark				
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value				
Receiver Setup:	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value				
·	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value				
		Peak	1MHz	3MHz	Peak Value				
		Peak	1MHz	10Hz	Average Value				
Test Procedure:	Above 1GHz								



5.3.2. Limit

Fundamental Frequency (MHz)	Filed Strength of Fundamental (microvolts/meter)	Filed Strength of Spurious Emission (microvolts/meter)
40.66-40.70	2250	225
70-130	1250	125
130-174	1250 to 3750*	125 to 375*
174-260	3750	375
260-470	3750 to 12500*	375 to 1250*
Above 470	12500	1250
Horn Antenna	Schwarzbeck	BBHA 9120D
*Linear interpolations		

[Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows:

For the band 130-174 MHz, μ V/m at 3 meters = 56.81818(F) - 6136.3636;

for the band 260-470 MHz, μ V/m at 3 meters = 41.6667(F) - 7083.3333. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.

For EUT

Fundamental Frequency (MHz)	Filed Strength of Fundamental (dBµV/m)	Filed Strength of Spurious Emission(dBµV/m)		
315	75.62	55.62		
433.92	80.83	60.83		

Note:

1. Intentional radiators operating under the provisions of this Section shall demonstrate compliance with the limits on the field strength of emissions, as shown in the above table, based on the average value of the measured emissions.

2.According to 15.35, on any frequency or frequencies below or equal to 1000 MHz, the limits Shown are based on measuring equipment employing a CISPR quasi-peak detector function and related measurement bandwidths, unless otherwise specified the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test.

3. According to 15.231(b), The limits on the field strength of the spurious emissions in the above table is based on the fundamental frequency of the intentional radiator. Spurious emissions shall be attenuated to the average (or, alternatively, CISPR quasi-peak) limits shown in this table or to the general limits shown in Section 15.209, whichever limit permits one higher field strength.

Frequencies in restricted band are complied to limit on Paragraph 15.209

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
0.009-0.490	3	20log 2400/F (kHz) + 80
0.490-1.705	3	20log 24000/F (kHz) + 40
1.705-30	3	20log 30 + 40
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

1. RF Voltage (dBuV) = 20 log RF Voltage (uV)

2. In the Above Table, the tighter limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

4. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

5. If measurement is made at 3m distance, then F.S Limitation at 3m distance is adjusted by using the formula Ld1 = Ld2 * (d2/d1)

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5.3.3. Test Instruments

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Radiated Emission Test Site (966)								
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due				
EMI Test Receiver	R&S	ESIB7	100197	Jul. 07, 2022				
Spectrum Analyzer	R&S	FSQ40	200061	Jul. 07, 2022				
Pre-amplifier	SKET	LNPA_0118G- 45	SK2021012 102	Feb. 24, 2023				
Pre-amplifier	SKET	LNPA_1840G- 50	SK2021092 03500	Feb. 24, 2023 Jul. 07, 2022				
Pre-amplifier	HP	8447D	2727A05017					
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 05, 2022				
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 04, 2022				
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 04, 2022				
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Apr. 10, 2023				
Coaxial cable	SKET	RC_DC18G-N	N/A	Feb. 24, 2023				
Coaxial cable	SKET	RC-DC18G-N	N/A	Feb. 24, 2023				
Coaxial cable	SKET	RC-DC40G-N	N/A	Jul. 07, 2022				
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A				

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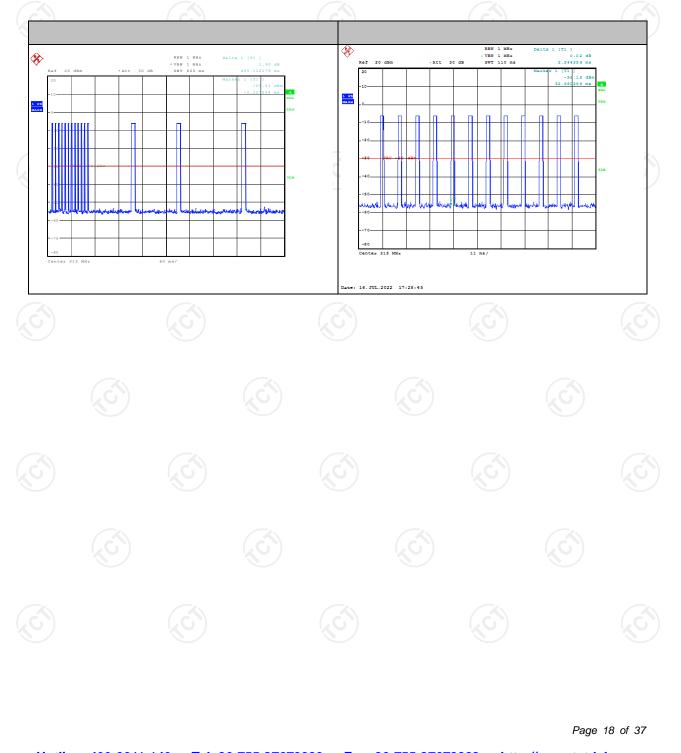
5.3.4. Test Data

Duty Cycle Test Data:

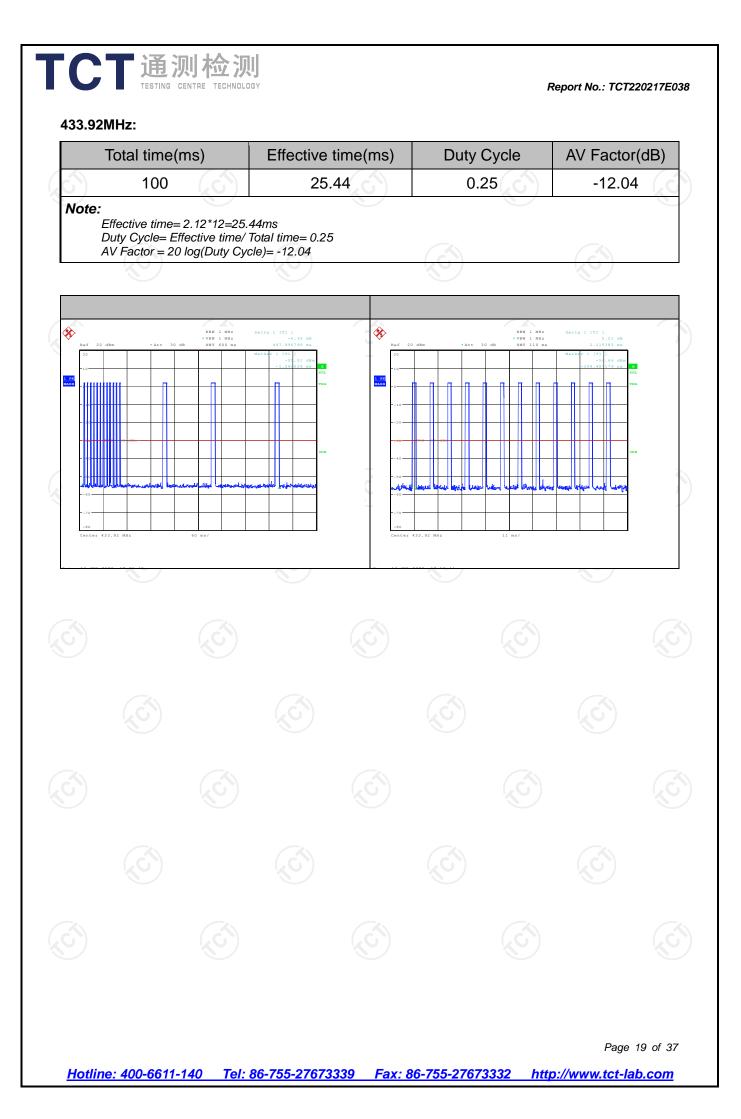
315MHz:

	Total time (ms)	Effective time (ms)	Duty Cycle	AV Factor(dB)	
	100	26.88	0.27	-11.37	
Note	e: Effective time= 2.24*12=26.		(C)	(C)	

Duty Cycle= Effective time/ Total time= 0.27 AV Factor = 20 log(Duty Cycle)= -11.37



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Field Strength of Fundamental

(MHz)	(dBuV/m)	/Vertical	(dBuV/m)	(dB)
315	65.54	Н	95.62	-30.08
315	59.31	V	95.62	-36.31
433.92	77.55	H C	100.83	-23.28
433.92	62.20	V	100.83	-38.63

Frequency (MHz)	Emission PK (dBuV/m)	AV Factor(dB)	Horizontal /Vertical	Emission AVG (dBuV/m)	Limits AV (dBuV/m)	Margin (dB)
315	65.54	-11.37	H	54.17	-75.62	-21.45
315	59.31	-11.37	v	47.94	-75.62	-27.68
433.92	77.55	-12.04	Н	65.51	-80.83	-15.32
433.92	62.20	-12.04	V	50.16	-80.83	-30.67

Harmonics and Spurious Emissions

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)
	(T &	
(°) (_k o`)	(kt)	(LOI) (LO
	<u> </u>	- · ·

Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement

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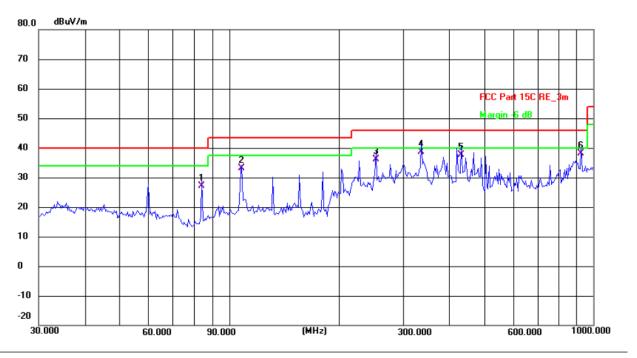
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Margin

Limits PK

Below 1GHz

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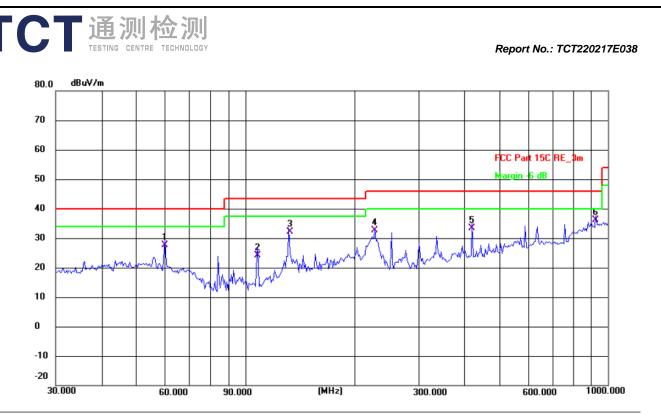
Site #1 3m Anechoic Chamber Polarization: Horizontal Temperature: 24.5(C) Humidity: 56 % Limit: FCC Part 15C RE_3m Power: DC3.8V I

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	84.1100	18.43	8.72	27.15	40.00	-12.85	QP	Ρ	
2	108.2664	22.46	10.59	33.05	43.50	-10.45	QP	Ρ	
3	252.9481	23.85	12.30	36.15	46.00	-9.85	QP	Ρ	
4 *	337.2155	24.17	14.45	38.62	46.00	-7.38	QP	Ρ	
5	434.0649	20.77	16.88	37.65	46.00	-8.35	QP	Ρ	
6	925.7562	11.08	27.07	38.15	46.00	-7.85	QP	Ρ	

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Site #1 3m Anechoic Chamber Limit: FCC Part 15C RE_3m Polarization: Vertical Power: DC3.8V

Frequency Reading Factor Level Limit Margin P/F No. Detector Remark (MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) 60.0690 15.46 12.17 27.63 40.00 -12.37 QP Ρ 1 2 108.2664 13.56 10.59 24.15 43.50 -19.35 QP Ρ 3 131.7573 19.83 12.22 32.05 43.50 -11.45 QP Ρ 4 227.6904 21.20 11.40 32.60 46.00 -13.40 QP Ρ 5 422.0577 16.88 16.60 33.48 46.00 -12.52 QP Ρ 6 * 925.7562 8.97 27.07 36.04 46.00 -9.96 QP Ρ





Temperature: 24.5(C)

Humidity: 56 %

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Above 1GHz (PK value)

Frequency PK Value (MHz)	Read Level PK (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level PK (dBuV/m)	Limit Line PK (dBuV/m)	Over Limit (dB)	Polarization
1370.00	36.69	25.66	4.59	33.39	33.55	74.00	-40.45	Vertical
2355.00	35.57	27.69	5.34	34.05	34.55	74.00	-39.45	Vertical
3415.00	35.83	28.67	6.80	32.85	38.45	74.00	-35.55	Vertical
4150.00	31.46	30.06	8.01	32.01	37.52	74.00	-36.48	Vertical
4695.00	32.57	31.65	8.51	32.03	40.70	74.00	-33.30	Vertical
5645.00	30.23	32.36	9.72	32.35	39.96	74.00	-34.04	Vertical
1430.00	35.38	25.42	4.64	33.47	31.97	74.00	-42.03	Horizontal
2410.00	34.79	27.57	5.40	33.99	33.77	74.00	-40.23	Horizontal
3395.00	36.47	28.60	6.76	32.87	38.96	74.00	-35.04	Horizontal
4115.00	28.83	29.95	7.97	32.05	34.70	74.00	-39.30	Horizontal
4635.00	30.05	31.57	8.46	32.01	38.07	74.00	-35.93	Horizontal
5590.00	28.14	32.22	9.63	32.38	37.61	74.00	-36.39	Horizontal
Note:	KO)		KO /		XU)		KO)	

Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss - Pre-amplifier

2. Margin (dB) = Emission Level (dB μ V/m)- limit (dB μ V/m)

3. The emission levels of other frequencies are very lower than the limit and not show in test report.

4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.

5. Data of measurement shown "*" in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.







5.4. Manually Activated Transmitter

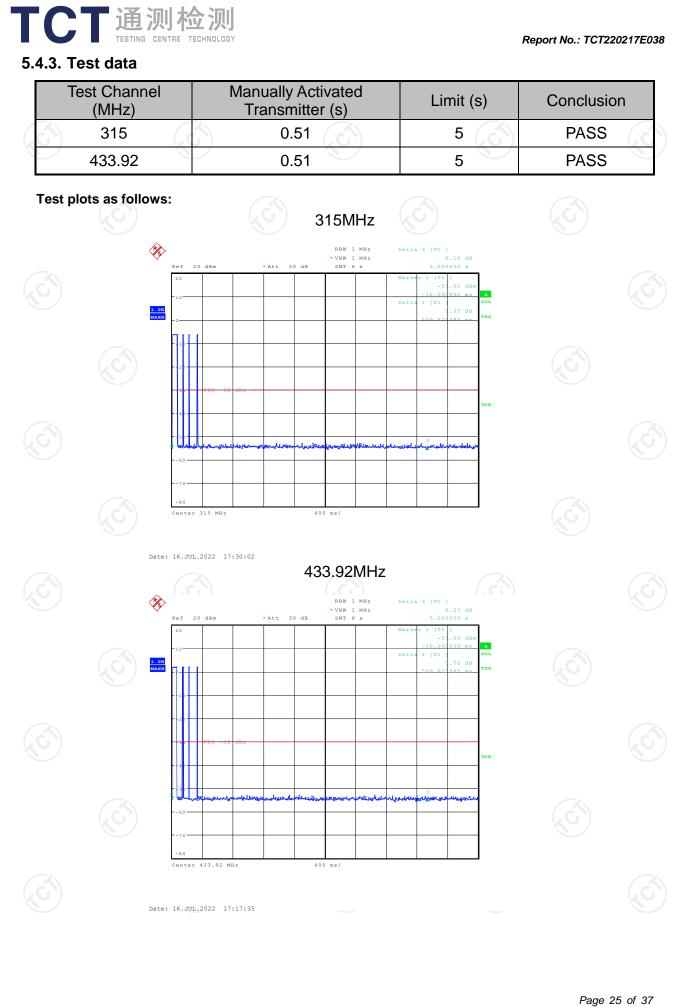
5.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.231(a)(1)				
Test Method:	ANSI C63.10: 2013				
Limit:	According to 15.231(a), A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.				
Test Procedure:	position between t 2. Set to the maximu EUT transmit conti 3. Use the following s VBW = 1MHz, VBV Span = 0; Sweep Detector function =	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. VBW = 1MHz, VBW≥RBW; Span = 0; Sweep Time > T(on)+5S; Detector function = peak; Measure and record the results in the test report.			
Test setup:	Spectrum Analyzer				
Test Mode:	Refer to Item 3.1				
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. 18, 2022			





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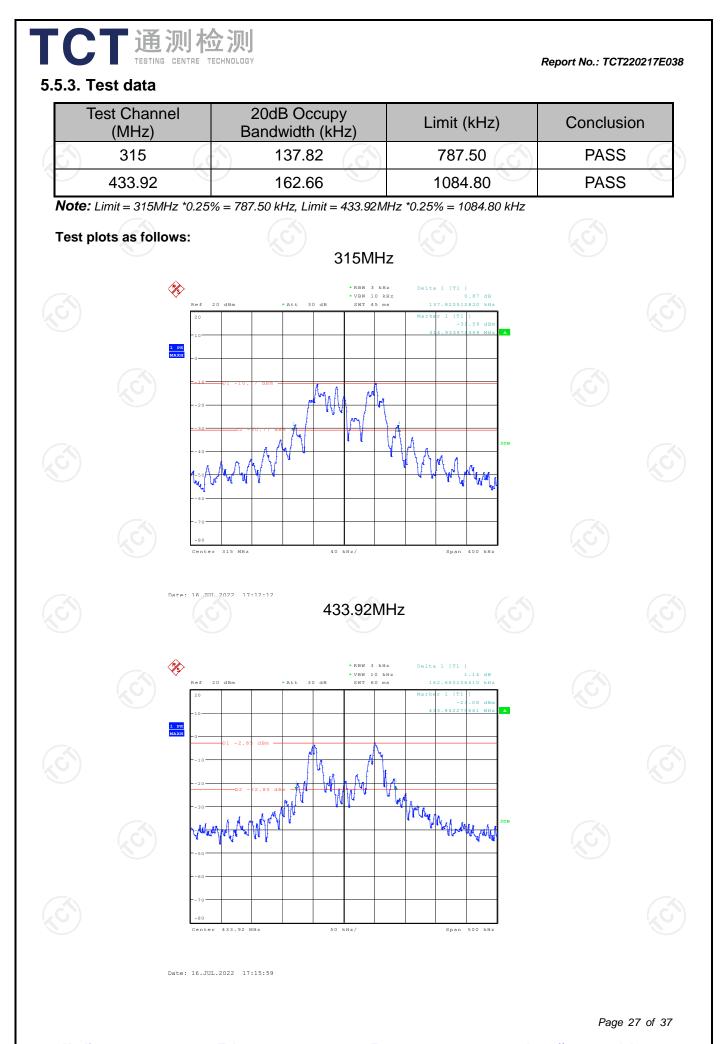
5.5. Occupied Bandwidth

5.5.1. Test Specification

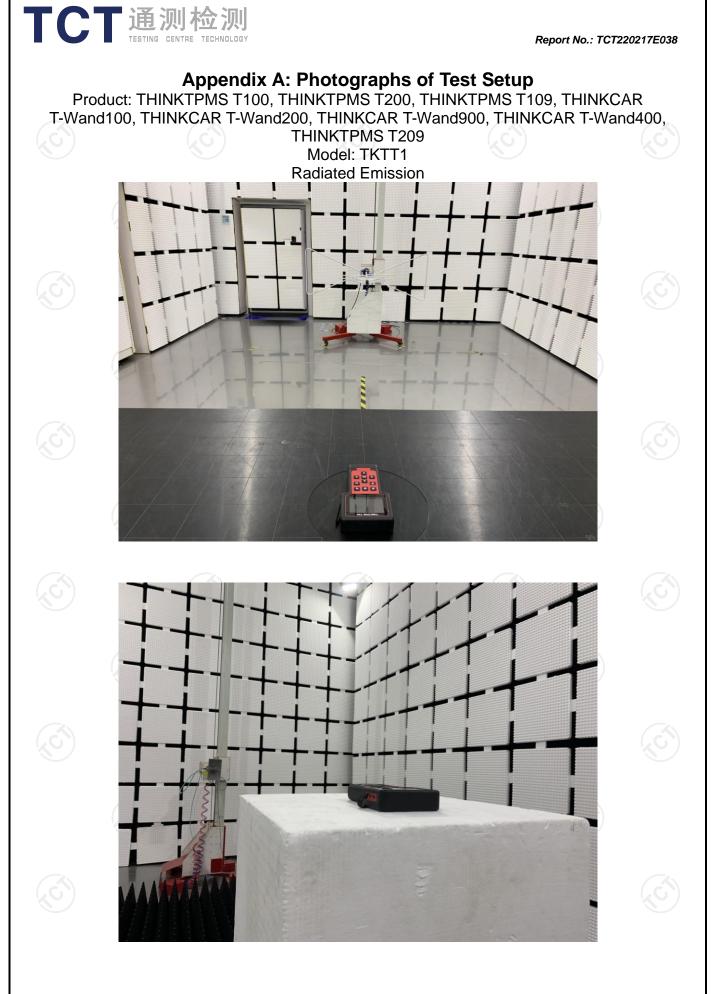
Test Requirement:	FCC Part15 C Section 15.231C				
Test Method:	ANSI C63.10: 2013				
Limit:	According to 15.231(c), The bandwidth of the emission shall be no wider than 0.25% of the centre frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the centre frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.				
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 EUT				
Test Mode:	Refer to Item 3.1				
Test results:	PASS				

5.5.2. Test Instruments

RF Test Room							
Equipment	Manufacturer	Model	Serial Number	Calibration Due			
Spectrum Analyzer	R&S	FSU	200054	Jul. 18, 2022			



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