FCC ID	2AUARSCANSF		
Test Report No:	TCT231213E910		
Date of issue:	Dec. 20, 2023		S.
Testing laboratory:	SHENZHEN TONGCE TES	TING LAB	e.
Testing location/ address:	2101 & 2201, Zhenchang Fa Subdistrict, Bao'an District, People's Republic of China		
Applicant's name: :	THINKCAR TECH CO., LTE	D.	
Address:	2606, building 4, phase II, T Bantian, Longgang District,		community,
Manufacturer's name :	THINKCAR TECH CO., LTE		
Address:	2606, building 4, phase II, T Bantian, Longgang District,		community,
Standard(s):	FCC CFR Title 47 Part 15 S FCC KDB 558074 D01 15.2 ANSI C63.10:2013	Subpart C Section 15.24	
Product Name::	OBD II Scanner		
Trade Mark:	.] • A→REMIUM ®		
Model/Type reference :	PD100A, PD100B, PD100F	, PD100G, PD100H	
Rating(s):	Rechargeable Li-ion Battery	0 DC 3.7V	
Date of receipt of test item	Dec. 13, 2023		(S)
Date (s) of performance of test:	Dec. 13, 2023 - Dec. 20, 20	23	
Tested by (+signature) :	Rleo LIU	Pheo Grande	
Check by (+signature) :	Beryl ZHAO	Boyle	TING
Approved by (+signature):	Tomsin	Tomsies	33
General disclaimer: This report shall not be repr TONGCE TESTING LAB. Th TESTING LAB personnel on	his document may be altered	or revised by SHENZ	HEN TONGC

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TCT通测检测 TESTING CENTRE TECHNOLOGY



1. General Product Information

1.1. EUT description

Product Name:	OBD II Scanner
Model/Type reference:	PD100A
Sample Number:	TCT231213E909-0101
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20)) 2422MHz~2452MHz (802.11n(HT40))
Channel Separation:	5MHz
Number of Channel:	11 for 802.11b/802.11g/802.11n(HT20) 7 for 802.11n(HT40)
Modulation Technology:	802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n: Orthogonal Frequency Division Multiplexing(OFDM)
Data speed:	802.11b: 1Mbps, 2Mbps, 5.5Mbps, 11Mbps 802.11g: 6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps 802.11n: Up to 150Mbps
Antenna Type:	Internal Antenna
Antenna Gain:	1dBi
Rating(s):	Rechargeable Li-ion Battery DC 3.7V

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.			N	lodel No.			Test	ed with
1			$(\mathbf{c}^{\mathbf{a}})$	PD100A			(C1)	\boxtimes
ther mod	lels	PD1	00B, PD10	00F, PD100)G, PD100	Н		
	only differenting models.	: on the mode	el names and	appearance	. So the test	data of PD10	0A can repre	esent the

Report No.: TCT231213E910



1.3. Operation Frequency

For 802.11b/g/n (HT20)

	Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
(1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
1	2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
	3	2422MHz	6	2437MHz	9	2452MHz		

For 802.11n (HT40)

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
		4	2427MHz	7	2442MHz		-
G`)	(5	2432MHz	8	2447MHz	G`)	(2
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

In section 15.31(*m*), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

802.11b/802.11g/802.11n (HT20)

Channel	Frequency
The lowest channel	2412MHz
The middle channel	2437MHz
The Highest channel	2462MHz

802.11n (HT40)

Channel	Frequency
The lowest channel	2422MHz
The middle channel	2437MHz
The Highest channel	2452MHz



2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203/§15.247 (c)	PASS
AC Power Line Conducted Emission	§15.207	PASS
Conducted Output Power	§15.247 (b)(3)	PASS
6dB Emission Bandwidth	§15.247 (a)(2)	PASS
Power Spectral Density	§15.247 (e)	PASS
Band Edge	§15.247(d)	PASS
Spurious Emission	§15.205/§15.209	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.
- 5. This report is issued as a supplemental report to original FCC ID: 2AUARSCANSF, the difference has product name, product model No., trade mark, appearance and some differences on the circuit board (memory chip, USB charging reserve position and power protection reserve position) in this report, so conducted emission and radiated emission had been re-tested and only its data was presented in this report.



3. General Information

3.1. Test environment and mode

Operating Environment:		
Condition	Conducted Emission	Radiated Emission
Temperature:	23.5 °C	24.1 °C
Humidity:	52 % RH	54 % RH
Atmospheric Pressure:	1010 mbar	1010 mbar
Test Software:	1	
Software Information:	Engineering mode	
Power Level:	Default	
Test Mode:		
Engineering mode:	Keep the EUT in continuous channel and modulations with the second secon	0,
above the ground plane of 3 polarities were performed. I the EUT continuously work	Bm chamber. Measurements in During the test, each emission ing, investigated all operating	n both horizontal and vertica n was maximized by: having n modes, rotated about all 3
above the ground plane of 3 polarities were performed. I the EUT continuously work axis (X, Y & Z) and cor manipulating interconnectin from 1m to 4m in both horiz	Bm chamber. Measurements in During the test, each emission ing, investigated all operating insidered typical configuration of cables, rotating the turnta ontal and vertical polarization	n both horizontal and vertical n was maximized by: having g modes, rotated about all 3 n to obtain worst position, ble, varying antenna height
above the ground plane of 3 polarities were performed. I the EUT continuously work axis (X, Y & Z) and cor manipulating interconnectin from 1m to 4m in both horiz	Bm chamber. Measurements in During the test, each emission ing, investigated all operating insidered typical configuration ing cables, rotating the turnta	n was maximized by: having y modes, rotated about all 3 n to obtain worst position, ble, varying antenna height
above the ground plane of 3 polarities were performed. I the EUT continuously work axis (X, Y & Z) and cor manipulating interconnectin from 1m to 4m in both horiz (Z axis) are shown in Test R We have verified the constru- were carried out with the EU report and defined as follow	Ben chamber. Measurements in During the test, each emission ing, investigated all operating hisidered typical configuration of cables, rotating the turnta ontal and vertical polarizations esults of the following pages. Unction and function in typical of JT in transmitting operation, w s:	h both horizontal and vertical h was maximized by: having modes, rotated about all 3 h to obtain worst position, ble, varying antenna height s. The emissions worst-case operation. All the test modes hich was shown in this test
above the ground plane of 3 polarities were performed. I the EUT continuously work axis (X, Y & Z) and cor manipulating interconnectin from 1m to 4m in both horiz (Z axis) are shown in Test R We have verified the constru- were carried out with the EU report and defined as follow Per-scan all kind of data r	Bm chamber. Measurements in During the test, each emission ing, investigated all operating insidered typical configuration of cables, rotating the turnta ontal and vertical polarizations esults of the following pages.	h both horizontal and vertical h was maximized by: having modes, rotated about all 3 h to obtain worst position, ble, varying antenna height s. The emissions worst-case operation. All the test modes hich was shown in this test
above the ground plane of 3 polarities were performed. I the EUT continuously work axis (X, Y & Z) and cor manipulating interconnectin from 1m to 4m in both horiz (Z axis) are shown in Test R We have verified the constru- were carried out with the EU report and defined as follow Per-scan all kind of data ra	Ben chamber. Measurements in During the test, each emission ing, investigated all operating hisidered typical configuration of cables, rotating the turnta ontal and vertical polarizations esults of the following pages. Unction and function in typical of JT in transmitting operation, w s:	h both horizontal and vertical h was maximized by: having modes, rotated about all 3 h to obtain worst position, ble, varying antenna height s. The emissions worst-case operation. All the test modes hich was shown in this test
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above the ground plane of 3 polarities were performed. I the EUT continuously work axis (X, Y & Z) and cor manipulating interconnectin from 1m to 4m in both horiz (Z axis) are shown in Test R We have verified the constru- were carried out with the EU report and defined as follow Per-scan all kind of data ra was worst case. Mode	Ben chamber. Measurements in During the test, each emission ing, investigated all operating hisidered typical configuration of cables, rotating the turnta ontal and vertical polarizations esults of the following pages. Unction and function in typical of JT in transmitting operation, w s:	both horizontal and vertical n was maximized by: having modes, rotated about all 3 n to obtain worst position, ble, varying antenna height s. The emissions worst-case operation. All the test modes hich was shown in this test bund the follow list which it Data rate
above the ground plane of 3 polarities were performed. I the EUT continuously work axis (X, Y & Z) and cor manipulating interconnectin from 1m to 4m in both horiz (Z axis) are shown in Test R We have verified the constru- were carried out with the EU report and defined as follow Per-scan all kind of data ra <u>was worst case.</u> Mode 802.11b	Ben chamber. Measurements in During the test, each emission ing, investigated all operating hisidered typical configuration of cables, rotating the turnta ontal and vertical polarizations esults of the following pages. Unction and function in typical of JT in transmitting operation, w s:	both horizontal and vertical n was maximized by: having modes, rotated about all 3 n to obtain worst position ble, varying antenna height s. The emissions worst-case operation. All the test modes hich was shown in this test bund the follow list which it Data rate 1Mbps

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
Adapter	JD-050200	2012010907576735	/	JD

Note:

- 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 use.
- 3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.





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



5. Test Results and Measurement Data

5.1. Antenna requirement

Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

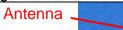
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The WIFI antenna is internal antenna which permanently attached, and the best case gain of the antenna is 1dBi.









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	3	
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
	Reference	e Plane	
Test Setup:	40cm E.U.T AC powe Test table/Insulation plane Remarkc E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Ne Test table height=0.8m	EMI Receiver	- AC power
Test Mode:	Charging + Transmittin	ig Mode	Q
Test Procedure:	 The E.U.T is connelline impedance stal provides a 500hm/s measuring equipment The peripheral device power through a LI coupling impedance refer to the block photographs). Both sides of A.C. conducted interferent emission, the relative the interface cables ANSI C63.10:2013 of 	bilization network 50uH coupling im nt. ces are also conne SN that provides with 50ohm tern diagram of the line are checkence. In order to fir e positions of equ s must be chang	k (L.I.S.N.). This pedance for the ected to the main a 50ohm/50uh nination. (Please test setup and ed for maximum nd the maximum ipment and all o jed according to



5.2.2. Test Instruments

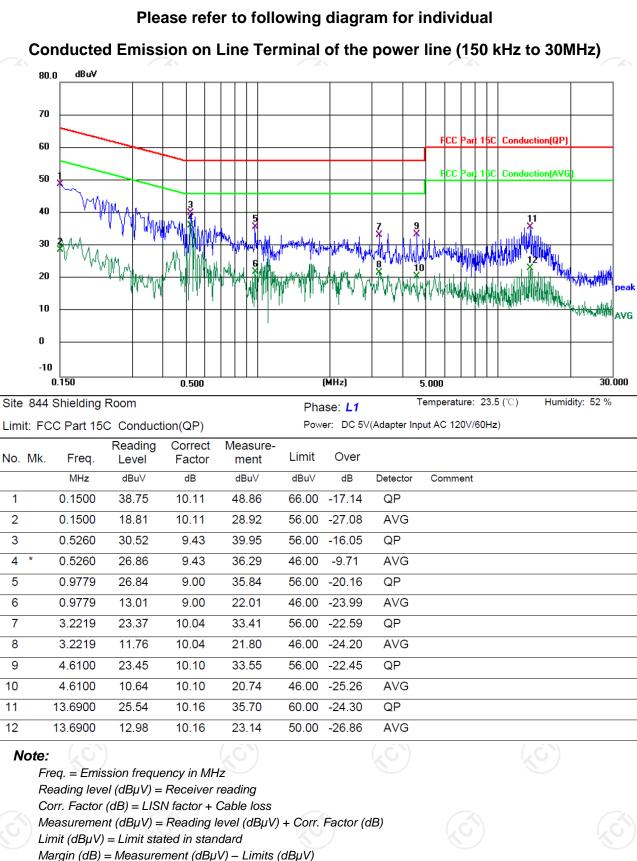
Conducted Emission Shielding Room Test Site (843)												
Equipment	Manufacturer	Model	Serial Number	Calibration Due								
EMI Test Receiver	R&S	ESCI3	100898	Jun. 29, 2024								
Line Impedance Stabilisation Newtork(LISN)	Schwarzbeck	NSLK 8126	8126453	Feb. 20, 2024								
Line-5	ТСТ	CE-05	/	Jul. 03, 2024								
EMI Test Software	Shurple Technology	EZ-EMC	1	1 60								
	Equipment EMI Test Receiver Line Impedance Stabilisation Newtork(LISN) Line-5	EquipmentManufacturerEMI Test ReceiverR&SLine Impedance Stabilisation Newtork(LISN)SchwarzbeckLine-5TCTEMI Test SoftwareShurple	EquipmentManufacturerModelEMI Test ReceiverR&SESCI3Line Impedance Stabilisation Newtork(LISN)SchwarzbeckNSLK 8126Line-5TCTCE-05EMI Test SoftwareShurpleEZ-EMC	EquipmentManufacturerModelSerial NumberEMI Test ReceiverR&SESCI3100898Line Impedance Stabilisation Newtork(LISN)SchwarzbeckNSLK 81268126453Line-5TCTCE-05/EMI Test SoftwareShurpleEZ-EMC/								



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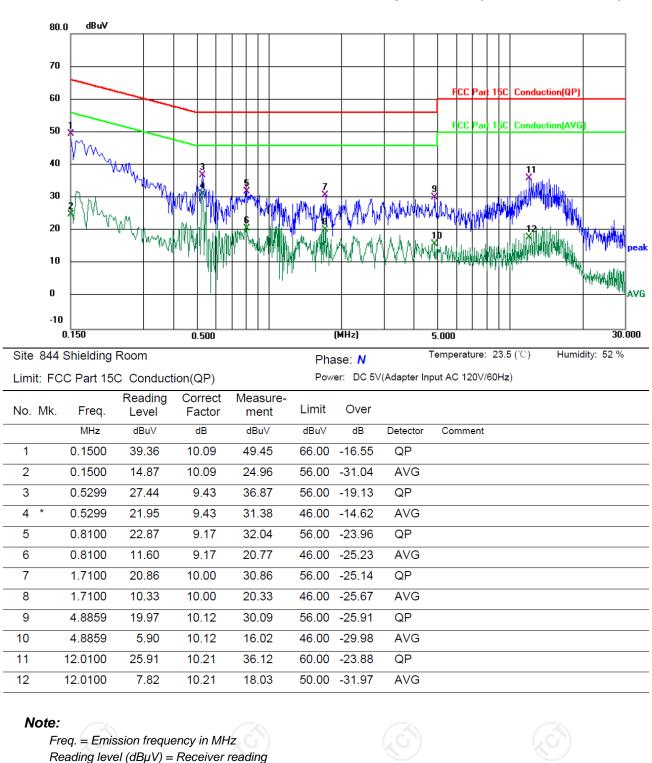
5.2.3. Test data



Q.P. =Quasi-Peak

AVG =average

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



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

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

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

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

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

Q.P. =Quasi-Peak AVG =average

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

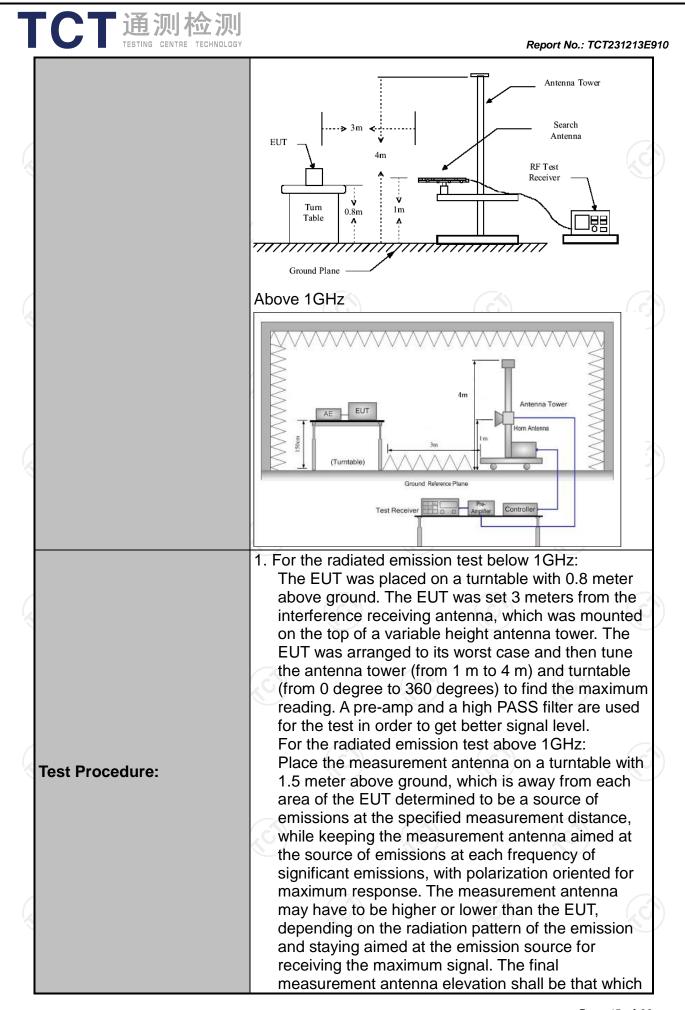


5.3. Radiated Spurious Emission Measurement

5.3.1. Test Specification

Test Requirement:	FCC Part15	C Section	15.209	$\langle \mathcal{O} \rangle$						
Test Method:	ANSI C63.10	0:2013								
Frequency Range:	9 kHz to 25 0	GHz								
Measurement Distance:	3 m	(G)		(0))				
Antenna Polarization:	Horizontal &	Vertical								
Operation mode:	Transmitting	Transmitting mode with modulation								
•	(-Z			VBW		omork				
	Frequency 9kHz- 150kHz	Detector	RBW			emark				
Receiver Setup:	150kHz- 30MHz	Quasi-peak Quasi-peak		1kHz 30kHz		· <u>peak Value</u> ·peak Value				
	30MHz-1GHz	Quasi-peal	120KHz	300KHz	Quasi	peak Value				
		Peak	1MHz	3MHz		ak Value				
	Above 1GHz	Peak	1MHz	10Hz		age Value				
	Frequen	ncy	Field Stro (microvolts)			surement ce (meters				
	0.009-0.4	490	2400/F(300				
	0.490-1.7		24000/F			30				
	1.705-3		30	. ,	30					
	30-88	-	100)	(6)	3				
	88-216		150			3				
Limit:	216-96	60	200)		3				
	Above 9	60	500			3				
	Frequency		d Strength ovolts/meter) 500	Measurer Distan (meter 3	се	Detector				
	Above 1GHz	z	5000	3		Peak				
Test setup:	For radiated	emissions		Pre -A	Computer Amplifier					
	30MHz to 10	S 1 1								

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TESTING CENTRE TECHNOLOGY	Report No.: TCT231213E910
	 maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported. Use the following spectrum analyzer settings: Span shall wide enough to fully capture the emission being measured; Set RBW=120 kHz for f < 1 GHz; VBW ≥ RBW;
Test results:	 (L) Solve and the rest of the re
rest results:	PADD



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5.3.2. Test Instruments

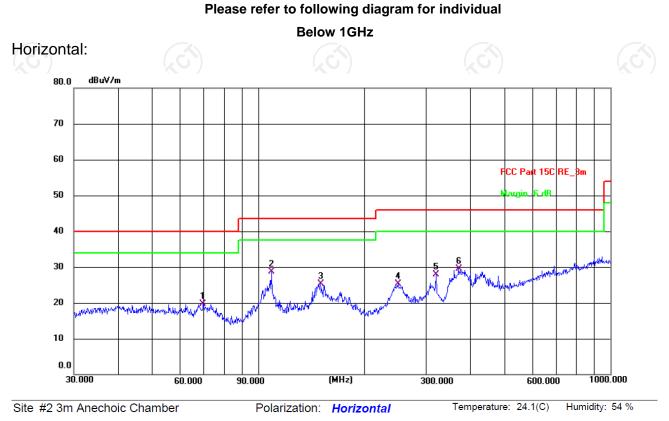
	Radiated En	nission Test Site	e (966)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESIB7	100197	Jun. 29, 2024
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 29, 2024
Pre-amplifier	SKET	LNPA_0118G- 45	SK2021012 102	Feb. 20, 2024
Pre-amplifier	SKET	LNPA_1840G- 50	SK2021092 03500	Feb. 20, 2024
Pre-amplifier	HP	8447D	2727A05017	Jun. 27, 2024
Loop antenna	Schwarzbeck	FMZB1519B	00191	Jul. 02, 2024
Broadband Antenna	Schwarzbeck	VULB9163	340	Jul. 01, 2024
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jul. 01, 2024
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Feb. 24, 2024
Antenna Mast	Keleto	RE-AM	/	/
Coaxial cable	SKET	RC-18G-N-M	1	Feb. 24, 2024
Coaxial cable	SKET	RC_40G-K-M	/	Feb. 24, 2024
EMI Test Software	Shurple Technology	EZ-EMC		1



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5.3.3. Test Data

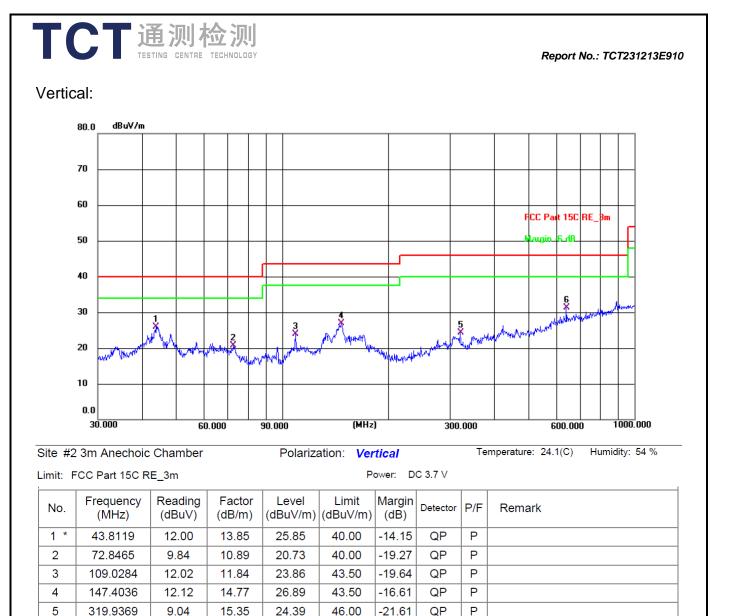


Limit: FCC Part 15C RE_3m

Power: DC 3.7 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	69.8448	8.48	11.29	19.77	40.00	-20.23	QP	Ρ	
2 *	109.0286	16.87	11.84	28.71	43.50	-14.79	QP	Ρ	
3	150.0108	10.49	14.88	25.37	43.50	-18.13	QP	Ρ	
4	249.4250	12.26	13.06	25.32	46.00	-20.68	QP	Ρ	
5	319.9368	12.58	15.35	27.93	46.00	-18.07	QP	Ρ	
6	370.7023	12.96	16.48	29.44	46.00	-16.56	QP	Ρ	

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Note: 1. The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported

46.00

2. Measurements were conducted in all three channels (high, middle, low) and all modulation(802.11b, 802.11g, 802.11n(HT20), 802.11n(HT40)), and the worst case Mode (Highest channel and 802.11b) was submitted only.

-14.63

QP

Ρ

3. Freq. = Emission frequency in MHz Measurement (dBµV/m) = Reading level (dBµV) + Corr. Factor (dB) Correction Factor= Antenna Factor + Cable loss – Pre-amplifier Limit (dBµV/m) = Limit stated in standard Margin (dB) = Measurement (dBµV/m) – Limits (dBµV/m)
* is meaning the worst frequency has been tested in the test frequency range

6

640.6110

8.99

22.38

31.37

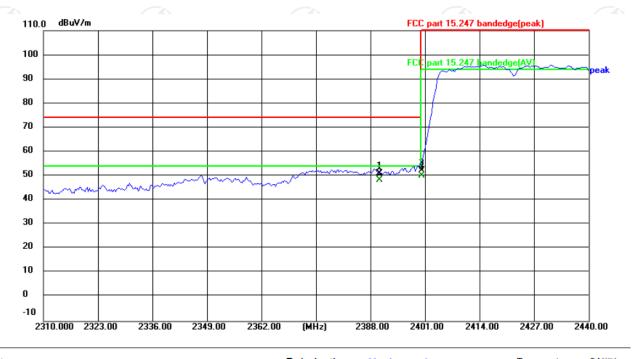
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Test Result of Radiated Spurious at Band edges

Lowest channel 2422:

Horizontal:



Site Limit: FC	C part 15.247 bande	Temperatu Humidity:	re: 24(℃) 52 %				
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	66.02	-14.99	51.03	74.00	-22.97	peak
2	2390.000	63.35	-14.99	48.36	54.00	-5.64	AVG
3	2400.000	67.11	-14.95	52.16	74.00	-21.84	peak
4 *	2400.000	65.01	-14.95	50.06	54.00	-3.94	AVG



Vertical:

*

4

2400.000

65.11

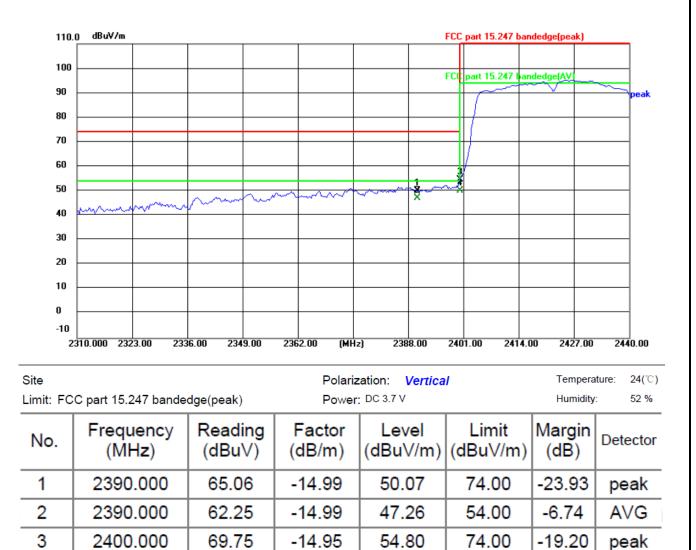
-14.95

50.16

54.00

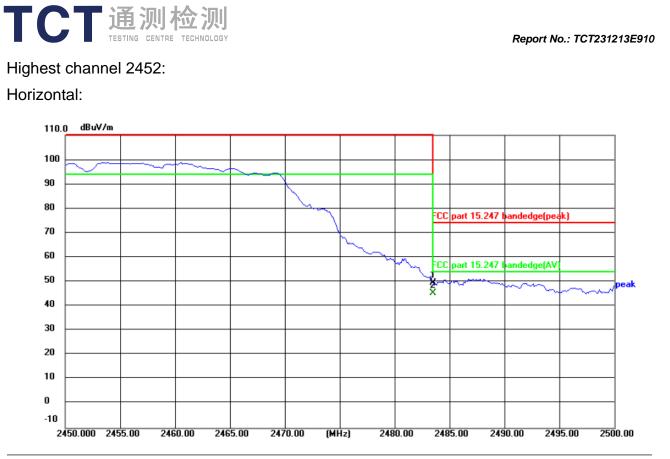
-3.84

AVG



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Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com



Site Limit: FC	C part 15.247 bande	dge(peak)	Polariz Power:	ation: Horizor DC 3.7 V	Temperat Humidity:		
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	64.19	-14.58	49.61	74.00	-24.39	peak
2 *	2483.500	59.86	-14.58	45.28	54.00	-8.72	AVG



C	TE	STING CEN	TRE TEC	HNOLOGY									F	Report No	.: TCT23	1213E
tical:																
110.0	dBuV/m										_					_
100																
90	$\overline{}$			~		~										_
80 -							\sum_{n}	_				part 15 2	17 1	ndedge(pea	L)	_
70								4				part 15.2	tr ua	ideoge(pea	KJ	1
60 -								_	m		FCC	part 15.2	17 ha	ndedge(AV)		_
50 -								_			×	~~~~	~	m	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
40 -								+					_			_
30								_								-
20								+					-			-
10																\neg
-10																\neg
	.000 245	55.00	2460.00	246	5.00	247	0.00	(MHz)	248	0.00	248	5.00	2490.	00 249	5.00 2	2500.00

Site Limit: FC	C part 15.247 bande	dge(peak)	Polariz Power	ation: Vertica	Tempera Humidity		
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	68.09	-14.58	53.51	74.00	-20.49	peak
2 *	2483.500	63.84	-14.58	49.26	54.00	-4.74	AVG

- 1. Peak Final Emission Level=Peak Reading + Correction Factor;
- 2. Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 3. Measurements were conducted in all modulation(802.11b, 802.11g, 802.11n(HT20), 802.11n(HT40)), and the worst case Mode 802.11n(HT40)) was submitted only.

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Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

			M	odulation T	ype: 802.11	1b			
			L	ow channe	I: 2412 MH	Z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4824	Н	45.31		0.75	46.06		74	54	-7.94
7236	Н	35.75		9.87	45.62	'	74	54	-8.38
	Н								
4824	V	44.90		0.75	45.65	~~	74	54	-8.35
7236	V	33.14	(2G	9.87	43.01	G`)	74	54	-10.99
	V				~	<u> </u>			

Above 1GHz

			Μ	iddle chanr	nel: 2437MF	Ηz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4874	Н	43.23		0.97	44.20		74	54	-9.80
7311	Н	36.89		9.83	46.72		74	54	-7.28
	H				(4	
			N.		N.	9			
4874	V	44.15		0.97	45.12	<u> </u>	74	54	-8.88
7311	V	34.60		9.83	44.43		74	54	-9.57
	V								

			H	ligh channe	el: 2462 MH	Z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4924	H	43.22		1.18	44.40		74	54	-9.60
7386	E.	34.58		10.07	44.65		74	54	-9.35
	Н								
4924	V	45.72		1.18	46.90		74	54	-7.10
7386	V	34.39		10.07	44.46		74	54	-9.54
	V)				

Note:

TCT通测检测 TESTING CENTRE TECHNOLOGY

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

2. Margin (dB) = Emission Level (Peak) (dBµV/m)-Average limit (dBµV/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. The highest test frequency is 25GHz.

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.

6. All the restriction bands are compliance with the limit of 15.209.

	TESTI	NG CENTRE TEC	HNOLOGY				Rep	ort No.: TCT2	231213E910
			Μ	odulation T	ype: 802.11	lg			
			Ĺ	ow channe	I: 2412 MH	z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4824	Н	44.90		0.75	45.65		74	54	-8.35
7236	Н	34.58		9.87	44.45		74	54	-9.55
· · · · ·	Н			0	· · · ·		<u> </u>		
4824	V	43.26		0.75	44.01		74	54	-9.99
7236	V	33.01	()	9.87	42.88		74	54	-11.12
	V					G)		$(2G^{-})$	

	Middle channel: 2437MHz													
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)					
4874	Н	44.36		0.97	45.33		74	54	-8.67					
7311	Н	34.82		9.83	44.65		74	54	-9.35					
	Н													
				2	(
4874	V	44.69		0.97	45.66	<u> </u>	74	54	-8.34					
7311	V	35.14		9.83	44.97		74	54	-9.03					
	V													

(c)			h F	ligh channe	el: 2462 MH	Z		(\mathbf{c})	
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4924	H.	43.46		1.18	44.64		74	54	-9.36
7386	H	35.35		10.07	45.42		74	54	-8.58
	H			/	\	<u> </u>			
4924	V	45.78		1.18	46.96		74	54	-7.04
7386	V	34.13		10.07	44.20		74	54	-9.80
	V	Ú.		(, (· · · ·		<u>, C ,)</u>		
Matai			7						

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

2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average 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. The highest test frequency is 25GHz.

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.

6. All the restriction bands are compliance with the limit of 15.209.

○T 通测检测

TC	T	的加枪					Rej	port No.: TCT2	231213E910
			Modu	lation Type	: 802.11n (l	HT20)			
			L	ow channe.	I: 2412 MH	z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4824	Н	45.92		0.75	46.67		74	54	-7.33
7236	Н	36.46		9.87	46.33		74	54	-7.67
· · · · ·	Н			(· · · ·		<u> </u>		
4824	V	45.20		0.75	45.95		74	54	-8.05
7236	V	35.63	6	9.87	45.50	~~	74	54	-8.50
	V)	(<u> </u>			

			М	iddle chann	nel: 2437MF	Ιz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4874	Н	43.07		0.97	44.04		74	54	-9.96
7311	Н	35.81		9.83	45.64		74	54	-8.36
	Н								
				2	(
4874	V	44.54		0.97	45.51	<u> </u>	74	54	-8.49
7311	V	34.79		9.83	44.62		74	54	-9.38
	V								

(c)		()	F	ligh channe	el: 2462 MH	z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4924	H	46.34		1.18	47.52		74	54	-6.48
7386	Н	35.62		10.07	45.69		74	54	-8.31
	E.			/	X)			
4924	V	42.84		1.18	44.02		74	54	-9.98
7386	V	34.27		10.07	44.34		74	54	-9.66
(V	Ú ,		(, (· · · ·		<u>, G+</u>		(-6)
Matai			/						

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

2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average 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. The highest test frequency is 25GHz.

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.

6. All the restriction bands are compliance with the limit of 15.209.

TC		動 た MG CENTRE TEC					Rej	oort No.: TCT2	231213E910
			Modu	lation Type	: 802.11n (l	HT40)			
			L	ow channe.	l: 2422 MH	z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4844	Н	43.57		0.75	44.32		74	54	-9.68
7266	Н	34.11		9.87	43.98		74	54	-10.02
<u> </u>	Н	-		6	· · · ·		<u> </u>		
4824	V	45.86		0.75	46.61		74	54	-7.39
7236	V	36.27		9.87	46.14	×	74	54	-7.86
	V)	(6)		$\left(\left\langle G^{-} \right\rangle \right)$	

	Middle channel: 2437MHz													
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)					
4874	Н	44.39		0.97	45.36		74	54	-8.64					
7311	Н	36.70		9.83	46.53		74	54	-7.47					
	Н													
				2	(
4874	V	46.92		0.97	47.89	<u> </u>	74	54	-6.11					
7311	V	35.15		9.83	44.98		74	54	-9.02					
	V													

			h H	ligh channe	el: 2452 MH				
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)		Margin (dB)
4904	E	45.02		1.18	46.20		74	54	-7.80
7356	H	36.65		10.07	46.72		74	54	-7.28
	۲. H			/		<u> </u>			
						1	1		
4904	V	44.84		1.18	46.02		74	54	-7.98
7356	V	34.13		10.07	44.20		74	54	-9.80
$(-\Theta)$	V	U-t		(, (· · · ·		$\mathcal{C}^{\rightarrow}$		

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

2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average 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. The highest test frequency is 25GHz.

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.

6. All the restriction bands are compliance with the limit of 15.209.

