

FCC/IC - TEST REPORT

Report Number	: 4842025220300B Date of Issue: 2025.03.28
Model	: T1-M
Product Type	: Wi-Fi and Bluetooth Module
Applicant	: Hangzhou Tuya Information Technology Co., Ltd
Address	: Room 301, Building 1, Huace Center, Xihu District, 310000 Hangzhou City, Zhejiang Province, PEOPLE'S REPUBLIC OF CHINA
Manufacturer	: Hangzhou Tuya Information Technology Co., Ltd.
Address	 Room 301, Building 1, Huace Center, Xihu District, 310000 Hangzhou City, Zhejiang Province, PEOPLE'S REPUBLIC OF CHINA
Test Result	: ■ Positive □ Negative
Total pages including Appendices	: 53

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Title: DTS Test Report Revision: 02 Effective date: 2024-08-01 ID-Number: EMC_WUX_F_25.34E Author: Ming GU Phone: +86 510 8820 3737 Fax: +86 510 8820 3636



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2 Details about the Test Laboratory



Test Site 1

Company name:	TÜV SÜD Certification and Testing (China) Co., Ltd.				
	Floor 1-4, Building B, No.37, Tuanjie Road(Middle), Xishan Economic and Technological Development Zone, Wuxi, Jiangsu. China				
Test Firm FCC Registration Number:	571980				
Designation number:	CN1405				
IC Company Number:	33393				
CAB identifier:	CN0184				
Telephone: Fax:	+86 510 8820 3737 +86 510 8820 3636				

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3 Description of the Equipment under Test

Description of the Equipment Under Test

Product:	Wi-Fi and Bluetooth Module				
PMN / HVIN / Model no.:	Т1-М				
FCC ID:	2ANDL	-T1-M			
Rating:	3.0-3.6V DC Normal: 3.3V DC				
RF Transmission Frequency:	Wi-Fi:2412-2462MHz Bluetooth LE:2402~2480MHz				
No. of Operated Channel:	2.4GHz WIFI: 11 for 802.11b/g/n(HT20) 2.4GHz BLE: 40				
Modulation:	Direct Sequence Spread Spectrum (DSSS) for 802. Orthogonal Frequency Division Multiplexing (OFDM 802.11g/n; 2.4GHz BLE: GFSK				
Channel list:		802.1	11b/g/n(HT2	20)	
	Ch	Fre(MHz)	Ch	Fre(MHz)	
	1	2412	7	2442	
	2	2417	8	2447	
	3	2422	9	2452	
	4	2427	10	2457	
	5	2432	11	2462	

	Bluetooth Low Energy								
Ch	Fre(MHz)	Ch	Fre(MHz)	Ch	Fre(MHz)	Ch	Fre(MHz)		
0	2402	10	2422	20	2442	30	2462		
1	2404	11	2424	21	2444	31	2464		
2	2406	12	2426	22	2446	32	2466		
3	2408	13	2428	23	2448	33	2468		
4	2410	14	2430	24	2450	34	2470		
5	2412	15	2432	25	2452	35	2472		
6	2414	16	2434	26	2454	36	2474		
7	2416	17	2436	27	2456	37	2476		
8	2418	18	2438	28	2458	38	2478		
9	2420	19	2440	29	2460	39	2480		

Antenna Type:

Onboard PCB antenna

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Antenna Gain: -0.66dBi

Description of the EUT: The Equipment Under Test (EUT) is a Wi-Fi and Bluetooth module which support 2.4GHz Wi-Fi and BLE 4.2(support 1Mbps data rate). We tested it and listed the worst data in this report.

Test sample no.: WUX-889391-2 (RF radiated); WUX-889391-1 (RF conducted)

The sample's mentioned in this report is/are submitted/ supplied/ manufactured by client. The laboratory therefore assumes no responsibility for accuracy of information on the brand name, model number, origin of manufacture, consignment or any information supplied.

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4 Summary of Test Standards

	Test Standards
FCC Part 15 Subpart C	PART 15 - RADIO FREQUENCY DEVICES
	Subpart C - Intentional Radiators

All the test methods were according to KDB 558074 D01 15.247 Meas Guidance v05r02 and ANSI C63.10 (2020).

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5 Summary of Test Results

Technical Requirements						
		I	1			
Test Condition		Pages	Test	Test Result		
	Conducted omission	5	Site	Pass	Fail	<u>N/A</u>
§15.207	Conducted emission AC power port	13-17	Site 1			
§15.247 (b) (3)	Conducted peak output power	18-20	Site 1			
§15.247(a)(1)	20dB bandwidth					\boxtimes
§15.247(a)(1)	Carrier frequency separation					\boxtimes
§15.247(a)(1)(iii)	Number of hopping frequencies					\boxtimes
§15.247(a)(1)(iii)	Dwell Time					\square
§15.247(a)(2)	6dB bandwidth	21-23	Site 1			
§15.247(e)	Power spectral density	24-26	24-26 Site 1			
§15.247(d)	Spurious RF conducted emissions					
§15.247(d)	Band edge	34-36 Site 1				
§15.247(d) & §15.209	Spurious radiated emissions for transmitter	emissions for 37-50 Site				
§15.203	Antenna requirement	See note 1				

Remark 1: N/A – Not Applicable.

Note 1: The EUT uses a PCB antenna, which gain is -0.66dBi. In accordance to §15.203, It is considered sufficiently to comply with the provisions of this section.

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6 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: 2ANDL-T1-M, complies with Section 15.207,15.209,15.231,15.247 of the FCC Part 15, Subpart C Rules.

This report is only for the 2.4GHz BLE test report, for the 2.4GHz Wi-Fi test report please refer to 4842025220300A.

SUMMARY:

All tests according to the regulations cited on page 5 were

- Performed
- □ Not Performed

The Equipment under Test

- - Fulfills the general approval requirements.
- □ **Does not** fulfill the general approval requirements.

Sample Received Date: February 10, 2025

Testing Start Date:

Testing End Date:

February 28, 2025

February 12, 2025

-TÜV SÜD Certification and Testing (China) Co., Ltd.

Reviewed by:



Wang Tiguan Yiguan Wang

Prepared by:

Yiquan Wang Project Engineer Tested by:

Zhihua Xia

Xia Zhihua Test Engineer

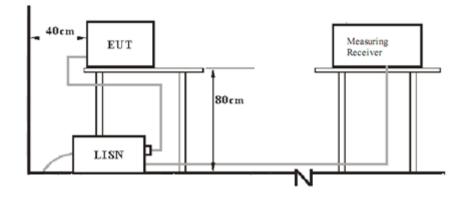
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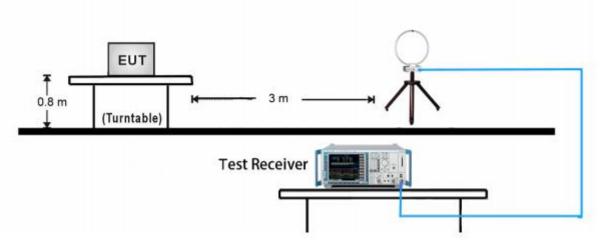
7 Test Setups

7.1 AC Power Line Conducted Emission test setups



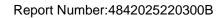
7.2 Radiated test setups

9kHz ~ 30MHz Test Setup:



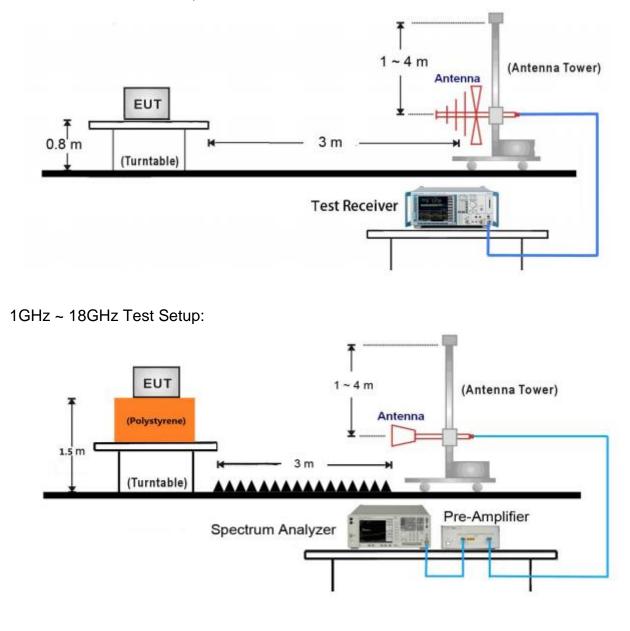
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30MHz ~ 1GHz Test Setup:

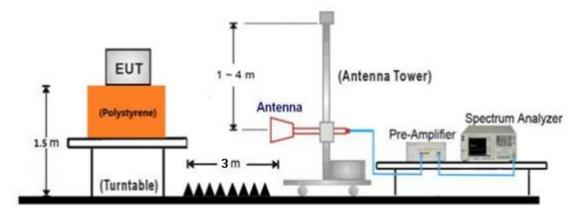


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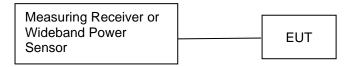
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18GHz ~ 25GHz Test Setup:



7.3 Conducted RF test setups



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8 Systems test configuration

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.(SHIELD)	S/N(LENGTH)
Notebook	HONOR	NDR-WFH	ET247
Notebook	HONOR	VLT-W50	ET137

Test software: Wifi Test tool v1.7.4

Test Mode Applicability and Tested Channel Detail:

Mode	Tested Channel	Data Rate (Mbps)	Modulation	Power level setting
Bluetooth LE	0	1	GFSK	Auto
	19	1	GFSK	Auto
	39	1	GFSK	Auto

Non-hopping mode: The system was configured to operate at a signal channel transmitting. The test software allows the configuration and operation at the worst-case duty and the highest transmit power.

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9 Technical Requirement

9.1 Conducted Emission

Test Method

- 1. The EUT was placed on a table, which is 0.8m above ground plane
- 2. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.).
- 3. Maximum procedure was performed to ensure EUT compliance
- 4. A EMI test receiver is used to test the emissions from both sides of AC line

Limit

Frequency	QP Limit	AV Limit			
MHz	dBµV	dBµV			
0.150-0.500	66-56*	56-46*			
0.500-5	56	46			
5-30	60	50			
Decreasing linearly with logarithm of the frequency					

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Conducted Emission



150k-30MHz Conducted Emission Test

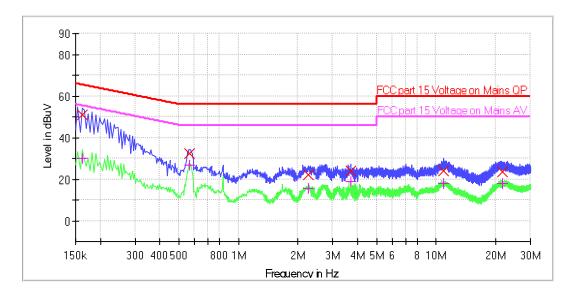
EUT Information

EUT: Model: Client: Operating conditions: Operator name: Input: Sample No: Test standard: Comment: Comment: Wi-Fi and Bluetooth Module T1-M Hanzghou Tuya Information Technology Co., Ltd Power on and TX_2480MHz Zhihua Xia AC 120V/60Hz WUX-889391-1 FCC Part 15.209(a) Phase L T21.2°C, H51.7%, P100.1kPa

Scan Setup: Mains Voltage LISN 2 Lines 150kHz-30MHz Pre Fcc [EMI conducted]

Hardware Setup:	Mains Voltage LISN 2 Lines 150kHz-30MHz_Fcc
Receiver:	[ESW 8]
Level Unit:	dBuV

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
150 kHz - 30 MHz	4 kHz	PK+ ; AVG	9 kHz	0.01 s	0 dB



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Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Meas. Time (ms)	Bandwi dth (kHz)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV)	Margin - CAV (dB)	Limit - CAV (dBuV)
0.162000	51.0	30.0	1000.0	9.000	10.6	14.3	65.4	25.3	55.4
0.566000	32.5	26.8	1000.0	9.000	10.5	23.5	56.0	19.2	46.0
2.254000	22.0	15.6	1000.0	9.000	10.6	34.0	56.0	30.4	46.0
3.698000	23.9	19.1	1000.0	9.000	10.6	32.2	56.0	27.0	46.0
10.950000	23.9	17.8	1000.0	9.000	10.9	36.1	60.0	32.2	50.0
21.590000	23.3	17.7	1000.0	9.000	11.1	36.7	60.0	32.3	50.0

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB) Factor (dB) = Cable Loss (dB) + LISN Factor (dB) + 10dB Attenuator

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150k-30MHz Conducted Emission Test

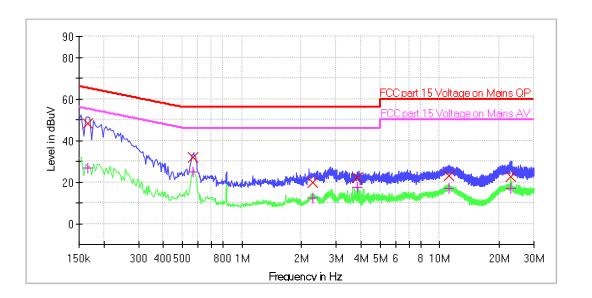
EUT Information

EUT: Model: Client: Operating conditions: Operator name: Input: Sample No: Test standard: Comment: Comment: Wi-Fi and Bluetooth Module T1-M Hanzghou Tuya Information Technology Co., Ltd Power on and TX_2480MHz Zhihua Xia AC 120V/60Hz WUX-889391-1 FCC Part 15.209(a) Phase N T21.2°C, H51.7%, P100.1kPa

Scan Setup: Mains Voltage LISN 2 Lines 150kHz-30MHz Pre Fcc [EMI conducted]

Hardware Setup:	Mains Voltage LISN 2 Lines 150kHz-30MHz_Fcc
Receiver:	[ESW 8]
Level Unit:	dBuV

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
150 kHz - 30 MHz	4 kHz	PK+ ; AVG	9 kHz	0.01 s	0 dB



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Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Meas. Time (ms)	Bandwi dth (kHz)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV)	Margin - CAV (dB)	Limit - CAV (dBuV)
0.166000	48.3	26.7	1000.0	9.000	10.6	16.9	65.2	28.5	55.2
0.566000	31.8	25.0	1000.0	9.000	10.5	24.2	56.0	21.0	46.0
2.294000	20.0	12.3	1000.0	9.000	10.6	36.0	56.0	33.7	46.0
3.830000	22.1	17.3	1000.0	9.000	10.6	33.9	56.0	28.7	46.0
11.110000	23.2	17.2	1000.0	9.000	10.9	36.8	60.0	32.8	50.0
22.802000	22.6	17.2	1000.0	9.000	11.2	37.4	60.0	32.8	50.0

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB) Factor (dB) = Cable Loss (dB) + LISN Factor (dB) + 10dB Attenuator

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9.2 Conducted peak output power

Test Method

- Use the following spectrum analyzer settings: RBW > the 6 dB bandwidth of the emission being measured, VBW≥3RBW, Span≥3RBW Sweep = auto, Detector function = peak, Trace = max hold.
- 2. Add a correction factor to the display.
- 3. Use a power meter to measure the conducted peak output power.

Limits

According to §15.247 (b) (1), conducted peak output power limit as below:

Frequency Range MHz	Limit W	Limit dBm
2400-2483.5	≤1	≤30
	e.i.r.p	
Frequency Range MHz	Limit W	Limit dBm
2400-2483.5		<u></u>

Conducted peak output power

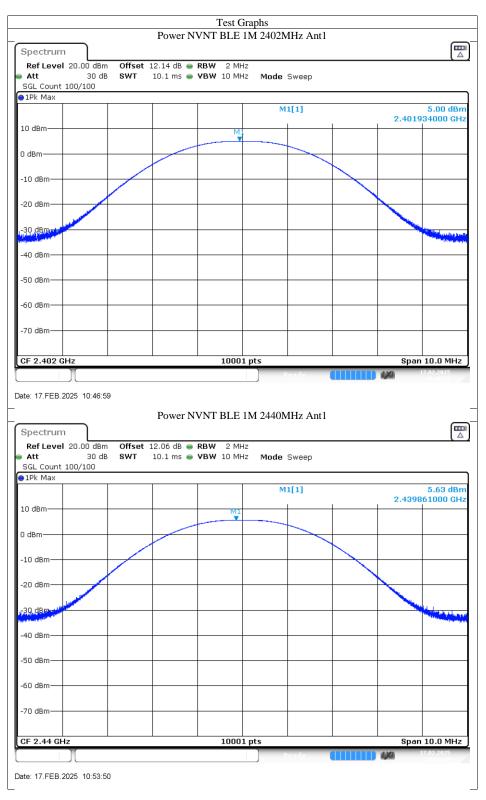
Test result as below table

Frequency MHz	Conducted Peak Output Power(dBm) §15.247 (b) (3)	Result
2402MHz	5	Pass
2440MHz	5.63	Pass
2480MHz	6.03	Pass

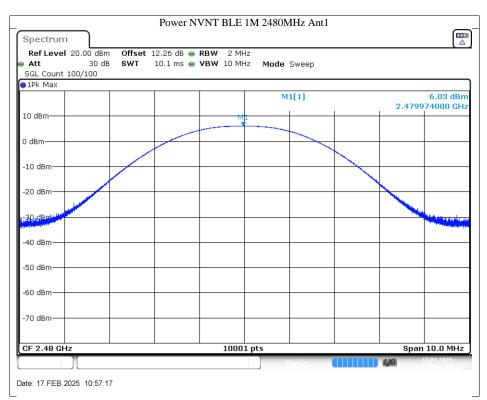
Phone: +86 510 8820 3737 Fax: +86 510 8820 3636







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9.3 6dB bandwidth

Test Method

- Use the following spectrum analyzer settings: RBW=100K, VBW≥3RBW, Sweep = auto, Detector function = peak, Trace = max hold
- Use the automatic bandwidth measurement capability of an instrument, may be employed using the X dB bandwidth mode with X set to 6 dB, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.
- 3. Allow the trace to stabilize, record the X dB Bandwidth value.

Limit

Limit [kHz]

≥500

Test result

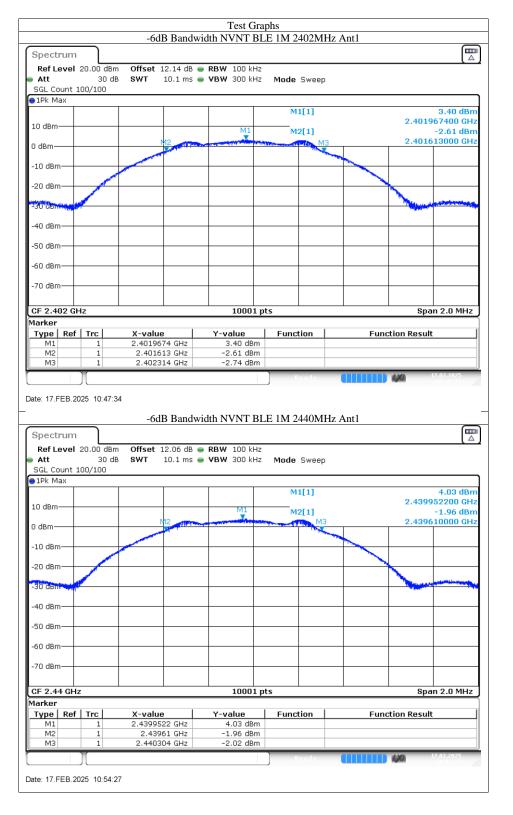
Frequency	6dB bandw	vidth (MHz)	Result	99% occupied bandwidth
MHz	result	limit	verdict	MHz
2402	0.701	≥0.5	Pass	1.04
2440	0.694	≥0.5	Pass	1.039
2480	0.711	≥0.5	Pass	1.04

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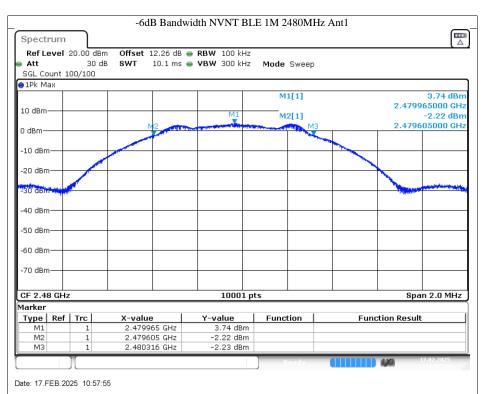


6dB Bandwidth



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9.4 Power spectral density

Test Method

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance:

- Set analyzer center frequency to DTS channel center frequency. RBW=3kHz,VBW≥3RBW,Span=1.5 times DTS bandwidth, Detector=Peak, Sweep=auto, Trace= max hold.
- 2. Allow trace to fully stabilize, use the peak marker function to determine the maximum amplitude level within the RBW.
- 3. Repeat above procedures until other frequencies measured were completed.

Limit

Limit [dBm/3kHz]

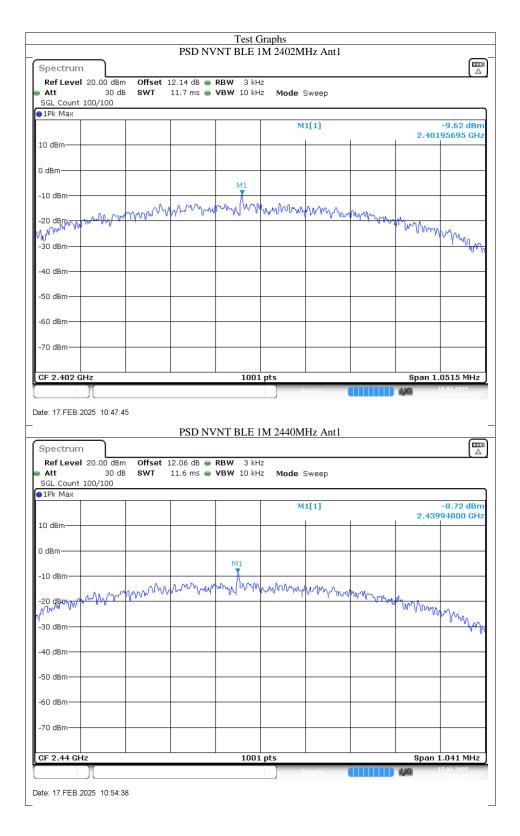
≪8

Test result

Data transmission rate	Frequency	Power spectral density	Result
	MHz	dBm/3kHz	
1Mbps	Top channel 2402MHz	-9.62	Pass
TMbps	Middle channel 2440MHz	-8.72	Pass
	Bottom channel 2480MHz	-9.62	Pass

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Spectrum)					
Ref Level 20		et 12.26 dB 👄				
SGL Count 100	30 dB SWT	11.9 ms 👄	VBW 10 kHz	Mode Sweep		
1Pk Max	/ 100					
				M1[1]	-	9.62 dB
					2.4799	7125 GH
10 dBm						
0 dBm		_				
10 40-2			M1			
-10 dBm		all a 4 Mba	LADOR AND	Malline Access		
20 d8m	walle hanger	MANNA	44	was on and on low way	Mongrand	
AN NWAY W					mmman when	Ma.
-30 dBm						" I'WA
So abiii						Y
-40 dBm						
-50 dBm						
-60 dBm						
-60 dBm						
-60 dBm						
			1001 pts		Span 1.0	665 MH2

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9.5 Spurious RF conducted emissions

Test Method

- 1. Establish a reference level by using the following procedure:
 - a. Set RBW=100 kHz. VBW≥3RBW. Detector =peak, Sweep time = auto couple, Trace mode = max hold.
 - b. Allow trace to fully stabilize, use the peak marker function to determine the maximum PSD level.
- 2. Use the maximum PSD level to establish the reference level.
 - a. Set the center frequency and span to encompass frequency range to be measured.
 - b. Use the peak marker function to determine the maximum amplitude level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements, report the three highest emissions relative to the limit.
- 3. Repeat above procedures until other frequencies measured were completed.

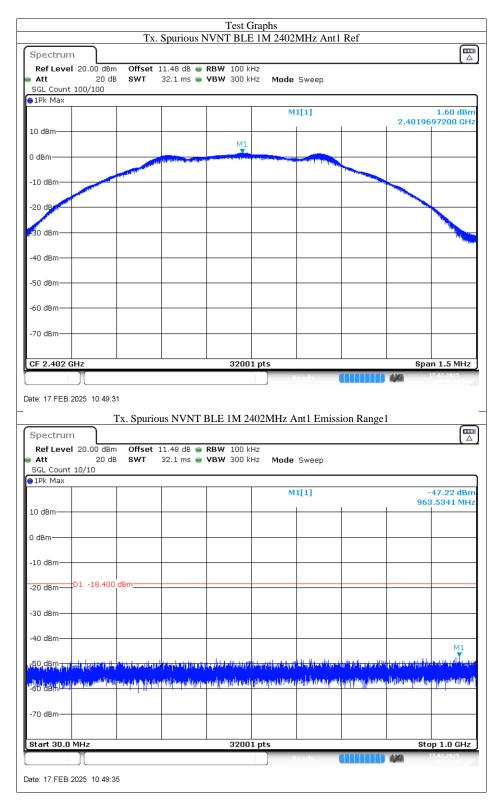
Limit

Frequency Range MHz	Limit (dBc)
30-25000	-20

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Spurious RF conducted emissions



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SUD

Report Number:4842025220300B

Spectrum	Tx. Spurio	ous NVNT I	BLE 1M 24	02MHz A	nt1 Emis	sion Range	2	
Ref Level 20.0	20 dB SWT	11.48 dB 👄 40 ms 👄	RBW 100 kH VBW 300 kH		Sweep			
SGL Count 10/10	1							
				M	1[1]			0.70 dBm
10 dBm				M*	2[1]			401890 GHz -45.41 dBm
0.10-		M1		1112	2[1]			596250 GHz
0 dBm								
	8.400_dBm							
-30 dBm								
-40 dBm								M2
-50 dBm	The best of the theory and the the	and all all and a	ատերեններ		ann an an Ann an Ann	lanie latan constitutions	aliyaha Hasiliya antalaya a	ALL AND ADDRESS OF
-60'dBm	and a second data and a second se	and and an the provide	delinistrations	dan da ministrativas	hidden of the second	n _{el} lstaterablea	n se de la consection d	a na sha na s
-70 dBm								
Start 1.0 GHz			32001	pts			St	op 5.0 GHz
Marker Type Ref Tro	z X-valu	e	Y-value	Funct	tion	Fun	ction Resul	t
M1	1 2.401	L89 GHz	0.70 dBr	n				
M2	1 4.696	525 GHz	-45.41 dBr	n				
				R			1,70	17.02.2025
ate: 17.FEB.2025 1	0:49:40							
	Tx. Spurio	ous NVNT I	BLE 1M 24	02MHz A	.nt1 Emis	sion Range	3	
Spectrum					nt1 Emis	sion Range	3	
RefLevel 20.0 Att	0 dBm Offset 20 dB SWT	11.48 dB 👄		Iz	nt1 Emiss	sion Range	3	
Ref Level 20.0 Att SGL Count 10/10	0 dBm Offset 20 dB SWT	11.48 dB 👄	RBW 100 kH	Iz		sion Range	3	
RefLevel 20.0 Att	0 dBm Offset 20 dB SWT	11.48 dB 👄	RBW 100 kH	iz iz Mode	Sweep	sion Range		(Δ)
Ref Level 20.0 Att SGL Count 10/10 1Pk Max	0 dBm Offset 20 dB SWT	11.48 dB 👄	RBW 100 kH	iz iz Mode		sion Range		
Ref Level 20.0 Att SGL Count 10/10	0 dBm Offset 20 dB SWT	11.48 dB 👄	RBW 100 kH	iz iz Mode	Sweep	sion Range		-42.79 dBm
Ref Level 20.0 Att SGL Count 10/10 1Pk Max	0 dBm Offset 20 dB SWT	11.48 dB 👄	RBW 100 kH	iz iz Mode	Sweep	sion Range		-42.79 dBm
Ref Level 20.0 Att SGL Count 10/10 1Pk Max 10 dBm	0 dBm Offset 20 dB SWT	11.48 dB 👄	RBW 100 kH	iz iz Mode	Sweep	sion Range		-42.79 dBm
Ref Level 20.0 Att SGL Count 10/10 IPk Max 10 dBm 0 dBm -10 dBm	0 dBm Offset 20 dB SWT	11.48 dB 👄	RBW 100 kH	iz iz Mode	Sweep			-42.79 dBm
Ref Level 20.0 Att SGL Count 10/10 IPk Max 10 dBm 0 dBm -10 dBm	0 dBm Offset 20 dB SWT	11.48 dB 👄	RBW 100 kH	iz iz Mode	Sweep			-42.79 dBm
Ref Level 20.0 Att SGL Count 10/10 IPk Max 10 dBm 0 dBm -10 dBm	0 dBm Offset 20 dB SWT	11.48 dB 👄	RBW 100 kH	iz iz Mode	Sweep			-42.79 dBm
Ref Level 20.0 Att SGL Count 10/10 IPk Max 10 dBm -10 dBm -20 dBm	0 dBm Offset 20 dB SWT	11.48 dB 👄	RBW 100 kH	iz iz Mode	Sweep			-42.79 dBm
Ref Level 20.0 Att SGL Count 10/10 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	0 dBm Offset 20 dB SWT	11.48 dB 👄	RBW 100 kH	iz iz Mode	Sweep	sion Range		-42.79 dBm 218484 GHz
Ref Level 20.0 Att SGL Count 10/10 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	0 dBm Offset 20 dB SWT	11.48 dB 👄	RBW 100 kH	iz iz Mode	Sweep			-42.79 dBm 218484 GHz
Ref Level 20.0 Att SGL Count 10/10 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	0 dBm Offset 20 dB SWT	11.48 dB 👄	RBW 100 kH	iz iz Mode	Sweep			-42.79 dBm 218484 GHz
Ref Level 20.0 Att SGL Count 10/10 1Pk Max 10 dBm 0 dBm -10 dBm -30 dBm -40 dBm	0 dBm Offset 20 dB SWT	11.48 dB 👄	RBW 100 kH	iz iz Mode	Sweep			-42.79 dBm 218484 GHz
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Ref Level 20.0 Att SGL Count 10/10 1Pk Max 10 10 10 dBm - - -10 dBm - - -20 dBm D1 -1 -30 dBm - - -40 dBm - - -60 dBm - - -70 dBm - -	0 dBm Offset 20 dB SWT	11.48 dB 👄	RBW 100 kH	IZ Mode	Sweep	sion Range	26.:	-42.79 dBm 218484 GHz
Ref Level 20.0 Att SGL Count 10/10 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -60 dBm	0 dBm Offset 20 dB SWT	11.48 dB 👄	RBW 100 kH	IZ Mode	Sweep	sion Range	26.:	-42.79 dBm 218484 GHz

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Spectrum Ref Level 2		fset 11.40 dB	- PRW 100 k	H7				
Att SGL Count 10	20 dB SV		• VBW 300 k		Sweep			
1Pk Max	0,200							
				M	1[1]		0.4000	2.49 dB
10 dBm							2.4399	712670 GF
			M1					
0 dBm		and the state of the second state of the						
	1911					A DESCRIPTION OF THE OWNER OF THE		
-10 dBm								
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-30 dBm								1
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-70 dBm								
CF 2.44 GHz							- Sn	an 1.5 MH:
Spectrum	Tx. S	purious NVN'	Т BLE 1М 24		ootv .nt1 Emiss	ion Range	d)Al	17.02.2025
ate: 17.FEB.202 Spectrum Ref Level 2 Att	Tx. S	fset 11.40 dB	Т BLE 1М 24	440MHz A		ion Range	d)Al	17.02.2025
Spectrum Ref Level 2 Att SGL Count 10	Tx. S	fset 11.40 dB	T BLE 1M 24	440MHz A		ion Range	d)Al	17.02.2025
Spectrum Ref Level 2 Att	Tx. S	fset 11.40 dB	T BLE 1M 24	Hz Hz Mode	Sweep	ion Range	1	17.02.2025
Spectrum Ref Level 2 Att SGL Count 10 1Pk Max	Tx. S	fset 11.40 dB	T BLE 1M 24	Hz Hz Mode		ion Range	1	17.02.2025
Spectrum Ref Level 2 Att SGL Count 10	Tx. S	fset 11.40 dB	T BLE 1M 24	Hz Hz Mode	Sweep	ion Range	1	17.02.2025
Spectrum Ref Level 2 Att SGL Count 10 1Pk Max 10 dBm	Tx. S	fset 11.40 dB	T BLE 1M 24	Hz Hz Mode	Sweep	ion Range	1	17.02.2025
Spectrum Ref Level 2 Att SGL Count 10 1Pk Max	Tx. S	fset 11.40 dB	T BLE 1M 24	Hz Hz Mode	Sweep	ion Range	1	17.02.2025
Spectrum Ref Level 2 Att SGL Count 10 1Pk Max 10 dBm	Tx. S	fset 11.40 dB	T BLE 1M 24	Hz Hz Mode	Sweep	ion Range	1	-47.35 dB 2.8431 MH
Spectrum Ref Level 2 Att SGL Count 10 1Pk Max 10 dBm -10 dBm -10 dBm	Tx. S	fset 11.40 dB	T BLE 1M 24	Hz Hz Mode	Sweep	ion Range	1	17.02.2025
Spectrum Ref Level 2 Att SGL Count 10 PIPK Max 10 dBm -10 dBm -10 dBm	Tx. S	fset 11.40 dB	T BLE 1M 24	Hz Hz Mode	Sweep	ion Range	1	17.02.2025
Spectrum Ref Level 2 Att SGL Count 10 IPk Max I0 dBm I0 dB	Tx. S	fset 11.40 dB	T BLE 1M 24	Hz Hz Mode	Sweep	ion Range	1	17.02.2025
Spectrum Ref Level 2 Att SGL Count 10 1Pk Max 10 dBm -10 dBm -10 dBm	Tx. S	fset 11.40 dB	T BLE 1M 24	Hz Hz Mode	Sweep	ion Range	1	17.02.2025
Spectrum Ref Level 2 Att SGL Count 10 IPk Max I0 dBm I0 dB	Tx. S	fset 11.40 dB	T BLE 1M 24	Hz Hz Mode	Sweep	ion Range	1	-47.35 dB 2.8431 MH
Spectrum Ref Level 2 Att SGL Count 10 IPk Max 10 dBm -10 dBm -20 dBm -30 dBm	Tx. S	fset 11.40 dB (T BLE 1M 2	Hz Hz Mode	Sweep		1	17.02.2025
Spectrum Ref Level 2 Att SGL Count 10 IPk Max 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	Tx. S	fset 11.40 dB (VT 32.1 ms)	T BLE 1M 2-	Hz Hz Mode	Sweep		98	-47.35 dB 2.8431 MH
Spectrum Ref Level 2 Att SGL Count 10 IPk Max 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	Tx. S	fset 11.40 dB (VT 32.1 ms)	T BLE 1M 2-	Hz Hz Mode	Sweep		98	-47.35 dB 2.8431 MH
Spectrum Ref Level 2 Att SGL Count 10 IPk Max 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	Tx. S	fset 11.40 dB (T BLE 1M 2-	Hz Hz Mode	Sweep		98	-47.35 dB 2.8431 MH
Spectrum Ref Level 2 Att SGL Count 10 IPk Max 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	Tx. S	fset 11.40 dB (VT 32.1 ms)	T BLE 1M 2-	Hz Hz Mode	Sweep		98	-47.35 dB 2.8431 MH
Spectrum Ref Level 2 Att SGL Count 10 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm	Tx. S	fset 11.40 dB (VT 32.1 ms)	T BLE 1M 2-	Hz Hz Mode	Sweep		98	-47.35 dB 2.8431 MH
Spectrum Ref Level 2 Att SGL Count 10 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm	Tx. S	fset 11.40 dB (VT 32.1 ms)	T BLE 1M 2-	H2 H2 Mode	Sweep		98	-47.35 dB 2.8431 MH

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SUD

Report Number:4842025220300B

10 dBm M1 M2[1] 0 dBm M1 M2[1] -10 dBm -10 dBm -10 dBm -20 dBm -10 dBm -10 dBm -30 dBm -10 dBm -10 dBm -30 dBm -10 dBm -10 dBm -30 dBm -10 dBm -10 dBm	1.04 dBn 2.439890 GH: -45.42 dBn 4.291875 GH:
1Pk Max 10 dBm 10 d	2.439890 GH: -45.42 dBn
M1 M2[1] 0 dBm M1 -10 dBm	2.439890 GH: -45.42 dBn
10 dBm	2.439890 GH: -45.42 dBn
M1 M2[1] 0 dBm	
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-40 dBm	
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-70 dBm	
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1arker	
Type Ref Trc X-value Y-value Function Function Res M1 1 2.43989 GHz 1.04 dBm	sult
M1 1 2.43989 GHz 1.04 dBm M2 1 4.291875 GHz -45.42 dBm	
	17.02.2025
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission Range3 Spectrum Ref Level 20.00 dBm Offset 11.40 dB • RBW 100 kHz	
) Att 20 dB SWT 215 ms 👄 VBW 300 kHz Mode Sweep SGL Count 10/10	
1Pk Max	
M1[1]	-43.36 dBn 6.476297 GH
10 dBm	0.470297 GH
0 dBm	
-10 dBm	
-20 dBm	
-30 dBm-	
-40 dBm	
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	And although the
and a second provide the second of the secon	
-60 dBm	
-70 dBm	top 26.5 GHz

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Spectrum Ref Level 20		Offset	11 60 dB 👄	RBW 100 k	H7				
Att SGL Count 10	20 dB			VBW 300 k		Sweep			
1Pk Max									
					N	11[1]		0.4700	3.29 dB
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				M1					
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-10 dBm									
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-20 d m									1111
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SO GDIN									
-40 dBm									
-50 dBm				+			+		+
-60 dBm									
-70 dBm									
CF 2.48 GHz				3200	1 pts			Sp	an 1.5 MHz
		. Spurio	us NVNT	BLE 1M 24	480MHz 4	Ant1 Emis	sion Range	1	17.02.2025
Spectrum Ref Level 20		Offset :	L1.60 dB 👄	BLE 1M 24 RBW 100 k VBW 300 k	Hz	Ant1 Emis:	sion Range	1	17.02.2025
Spectrum Ref Level 20 Att SGL Count 10,	Tx	Offset :	L1.60 dB 👄	RBW 100 k	Hz		sion Range	1	17.02.2025
Spectrum Ref Level 20 Att SGL Count 10,	Tx	Offset :	L1.60 dB 👄	RBW 100 k	Hz Hz Mode	: Sweep	sion Range	1	
Spectrum Ref Level 20 Att SGL Count 10, 1Pk Max	Tx	Offset :	L1.60 dB 👄	RBW 100 k	Hz Hz Mode		sion Range		-47.36 dBi 7.1506 MH
Spectrum Ref Level 20 Att SGL Count 10, 1Pk Max	Tx	Offset :	L1.60 dB 👄	RBW 100 k	Hz Hz Mode	: Sweep	sion Range		-47.36 dBi
Spectrum Ref Level 2(Att SGL Count 10, 1Pk Max 10 dBm	Tx	Offset :	L1.60 dB 👄	RBW 100 k	Hz Hz Mode	: Sweep	sion Range		-47.36 dBi
Spectrum Ref Level 2(Att SGL Count 10, 1Pk Max 10 dBm	Tx	Offset :	L1.60 dB 👄	RBW 100 k	Hz Hz Mode	: Sweep	sion Range		-47.36 dBi
Spectrum Ref Level 2(Att SGL Count 10, 1Pk Max 10 dBm 0 dBm	Tx	Offset :	L1.60 dB 👄	RBW 100 k	Hz Hz Mode	: Sweep	sion Range		-47.36 dBi
Spectrum Ref Level 2(Att SGL Count 10, 1Pk Max 10 dBm -10 dBm	Tx 0.00 dBm 20 dB /10	Offset : SWT	L1.60 dB 👄	RBW 100 k	Hz Hz Mode	: Sweep	sion Range		-47.36 dBi
Spectrum Ref Level 20 Att SGL Count 10, 1Pk Max 0 dBm -10 dBm	Tx	Offset : SWT	L1.60 dB 👄	RBW 100 k	Hz Hz Mode	: Sweep	sion Range		-47.36 dBi
Spectrum Ref Level 20 Att SGL Count 10, 10 dBm 0 dBm -10 dBm -20 dBm D1	Tx 0.00 dBm 20 dB /10	Offset : SWT	L1.60 dB 👄	RBW 100 k	Hz Hz Mode	: Sweep	sion Range		-47.36 dBi
• Att SGL Count 10, • 1Pk Max 10 dBm • 0 dBm -10 dBm	Tx 0.00 dBm 20 dB /10	Offset : SWT	L1.60 dB 👄	RBW 100 k	Hz Hz Mode	: Sweep	sion Range		-47.36 dBi
Spectrum Ref Level 20 Att SGL Count 10, JIPk Max 10 dBm -10 dBm -20 dBm -30 dBm	Tx 0.00 dBm 20 dB /10	Offset : SWT	L1.60 dB 👄	RBW 100 k	Hz Hz Mode	: Sweep	sion Range		-47.36 dBi
Spectrum Ref Level 20 Att SGL Count 10, 10 dBm 0 dBm -10 dBm -20 dBm D1	Tx 0.00 dBm 20 dB /10	Offset : SWT	L1.60 dB 👄	RBW 100 k	Hz Hz Mode	: Sweep	sion Range		-47.36 dBi
Spectrum Ref Level 20 Att SGL Count 10, IPk Max 10 dBm -10 dBm -20 dBm -30 dBm	Tx 0.00 dBm 20 dB /10 -16.714 dt	Offset : SWT	11.60 dB • 32.1 ms •	RBW 100 k VBW 300 k	Hz Mode	• Sweep		99	-47.36 dB) 07.1506 MH
Spectrum Ref Level 20 Att SGL Count 10, IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	Tx 0.00 dBm 20 dB /10 -16.714 dE	Offset : SWT	11.60 dB • 32.1 ms •	RBW 100 k VBW 300 k	Hz Mode	• Sweep		99	-47.36 dBi 77.1506 MH
Spectrum Ref Level 20 Att SGL Count 10, JIPk Max 10 dBm -10 dBm -20 dBm -30 dBm	Tx 0.00 dBm 20 dB /10 -16.714 dE	Offset : SWT	11.60 dB • 32.1 ms •	RBW 100 k VBW 300 k	Hz Mode	• Sweep		99	-47.36 dBi 77.1506 MH
Spectrum Ref Level 20 Att SGL Count 10, IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	Tx 0.00 dBm 20 dB /10 -16.714 dE	Offset : SWT	11.60 dB • 32.1 ms •	RBW 100 k VBW 300 k	Hz Mode	• Sweep		99	-47.36 dBi 77.1506 MH
Spectrum Ref Level 20 Att SGL Count 10, IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	Tx 0.00 dBm 20 dB /10 -16.714 dE	Offset : SWT	11.60 dB • 32.1 ms •	RBW 100 k VBW 300 k	Hz Mode	• Sweep		99	-47.36 dBi 77.1506 MH
Spectrum Ref Level 20 Att SGL Count 10, 10 dBm 10 dBm -10 dBm -30 dBm -40 dBm -40 dBm -10 dBm	Tx 0.00 dBm 20 dB /10 -16.714 dE	Offset : SWT	11.60 dB • 32.1 ms •	RBW 100 k VBW 300 k	Hz Mode	• Sweep		99	-47.36 dBi 77.1506 MH
Spectrum Ref Level 20 Att SGL Count 10, 10 dBm 10 dBm -10 dBm -30 dBm -40 dBm -40 dBm -10 dBm	-16.714 df	Offset : SWT	11.60 dB • 32.1 ms •	RBW 100 k VBW 300 k	Hz Mode	• Sweep			-47.36 dBi 77.1506 MH

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SUD

Report Number:4842025220300B

10 dbm 2.40270 c 0 dbm 4.949000 c -10 dbm 4.949000 c -20 dbm 4.949000 c -30 dbm 4.949000 c -40 dbm -4.94000 c -70 dbm -70 dbm -70 dbm -70 dbm Stort I.0 GHz 32091 pts Stort I.0 GHZ -90027 0HZ -70 dbm 1.94907 0HZ Type Ref Type Ref I Tre X. Spurious NVNT BLE IM 2480MHZ Antl Emission Range3 <th>Spectrun</th> <th></th> <th>Fx. Spurio</th> <th>us NVNT :</th> <th>BLE 1M 24</th> <th>480MHz A</th> <th>.nt1 Emiss</th> <th>sion Range</th> <th>2</th> <th></th>	Spectrun		Fx. Spurio	us NVNT :	BLE 1M 24	480MHz A	.nt1 Emiss	sion Range	2	
PFK Max MI[1] 2.468 df 10 dBm MI[1] 2.469 df 0 dBm MI[1] 2.469 df 10 dBm MI[1] 2.469 df 0 dBm MI[1] 2.469 df 10 dBm MI[1] 2.469 df -20 dBm MI[1] 2.469 df -30 dBm MI[1] MI[1] -30 dBm MI[1] MI[1] -30 dBm MI[1] MI[1] MI[1] -30 dBm MI[1] MI[1] MI[1] MI[1] -30 dBm MI[1] MI[1] MI[1] MI[1] MI[1] -40 dBm MI[1] MI[1] MI[1] MI[1] MI[1] MI[1] -70 dBm MI[1] 2.480 dF Function Function Result MI[1] MI[2] 1 4.946 GH2 2.68 dF Function MI[1] MI[1] Marker MI[1] 2.480 dF Function Function Result MI[1] MI[1] MI[1] MI[1] MI[1] MI	Att 🗧	20 dB		_			Sweep			
10 dBm M1[1] 2.46 dZ 10 dBm M1 M2[1] -45.83 dE 10 dBm 0 dBm 4.949000 d 4.949000 d -10 dBm 01 -16.714 dBm 0 0 -20 dBm 01 -16.714 dBm 0 0 -30 dBm 0 0 0 0 -40 dBm 0 0 0 0 -30 dBm 0 0 0 0 -40 dBm 0 0 0 0 0 -50 dBm 0 0 0 0 0 -70 dBm 0 0 0 0 0 M1 1 2.40027 GHz 2.60 dBm Function Marker Type [Ref Trc X-value Y-value Function M11 1 2.40027 GHz 2.60 dBm Function M2 1 4.949 GHz -4.5.3 dBm 0 M2 1 4.949 GHz -4.5.3 dBm 0 M2 1 2.60 dBm Function Function Result M2 1 2.16 dBm 0 0 M2 1 2.16 dBm 0 0 M11 1 2.4022 GHz 0 </td <td></td> <td>10/10</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		10/10								
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O dBm M1 M2 (1)	10 dBm									
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-70 dBm Stor 1.0 GHz 32001 pts Stor 5.0 GH Start 1.0 GHz 32001 pts Stor 5.0 GH Marker Trype [Kef] Trc X-value Y-value Function Function Result M1 1 2.48027 GHz 2.68 dBm Function Function Result M2 1 4.940 GHz -45.83 dBm Foreity Y22202 ate: 17.FEB.2025 10.59:38 Tx. Spurious NVNT BLE 1M 2480MHz Ant I Emission Range3 Y22202 Spectrum Tx. Spurious NVNT BLE 1M 2480MHz Ant I Emission Range3 Y22202 Spectrum C Foreity Y22202 Att 200 dB WWT 215 ms YBW 300 kHz Att 200 dB WWT 215 ms YBW 300 kHz Att 200 dB WWT 215 ms YBW 300 kHz O dBm 0 0 dBm 0.969938 G 0.969938 G -10 dBm 0 0 0.969938 G 0.969938 G -30 dBm 0 0.969936 G 0.969936 G 0.969938 G -40 dBm 0 0.969936 G 0.969936 G 0.969936 G -0	-60 dBm	eteretigentil mi	letter prinsisten _{tere} k	here a second second	a standard for the standard stands	enantera pala	de du a donaid a cato	a balk of second	and, marian	
Start 1.0 GHz 32001 pts Stop 5.0 GH Marker Function Function Result Function Result M1 1 2.48027 GHz 2.68 dBm Function Result Function Result M2 1 4.949 GHz -45.83 dBm Function Result Function Result M2 1 4.949 GHz -45.83 dBm Function Result Function Result M2 1 4.949 GHz -45.83 dBm Function Result Funcion Result <										
Warker Type Ref Trc X-value Y-value Function Function Result M1 1 2.48027 GHz 2.68 dBm <td>-70 aBm</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	-70 aBm									
Warker Type Ref Trc X-value Y-value Function Function Result M1 1 2.48027 GHz 2.68 dBm <td>Start 1.0 C</td> <td>GHz</td> <td></td> <td></td> <td>3200:</td> <td>1 pts</td> <td></td> <td></td> <td>Sto</td> <td>p 5.0 GHz</td>	Start 1.0 C	GHz			3200:	1 pts			Sto	p 5.0 GHz
MI 1 2.48027 GHz 2.68 dBm M2 1 4.949 GHz -45.83 dBm mail 4.949 GHz -45.83 dBm 1000000000000000000000000000000000000										
M2 1 4.949 GHz -45.83 dBm 1000000 ate: 17.FEB.2025 10:59:38 Tx. Spurious NVNT BLE 1M 2480MHz Ant I Emission Range3 1000000 1000000 Spectrum C <thc< th=""> C <thc< th=""> <thc< th=""></thc<></thc<></thc<>							tion	Fund	ction Result	t
Dender D00002 ate: 17.FEB.2025 10.59.38 Tx. Spurious NVNT BLE 1M 2480MHz Ant I Emission Range3 Spectrum Ref Level 20.00 dBm Offset 11.60 dB @ RBW 100 kHz Att 20 dB SWT 215 ms @ VBW 300 kHz Mode Sweep SGL count 10/10 D1 # Max M1[1] # 43.22 dE 6.969938 G 0 dBm 0 dBm 10 dBm 10 dBm -0 dBm -16.714 dBm -20 dBm -30 dBm -30 dBm -10.714 dBm -20 dBm -30 dBm -30 dBm -30 dBm -30 dBm -70 dBm -70 dBm -70 dBm -70 dBm										
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-40 dBm - 40										
-60 dBm -70 dBm Start 5.0 GHz Stop 26.5 GH	-30 dBm									
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-70 dBm		الموريون بتقريه والمراس		, , , , , , , , , , , , , , , , , , , 						
Start 5.0 GHz 32001 pts Stop 26.5 GH	-60 dBm									
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9.6 Band edge

Test Method

- Use the following spectrum analyzer settings: Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 100 kHz, VBW≥RBW, Sweep = auto, Detector function = peak, Trace = max hold.
- 2 Allow the trace to stabilize, use the peak and delta measurement to record the result.
- 3 The level displayed must comply with the limit specified in this Section.

Limit

According to §15.247(d), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. 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) (see Section 15.205(c)).

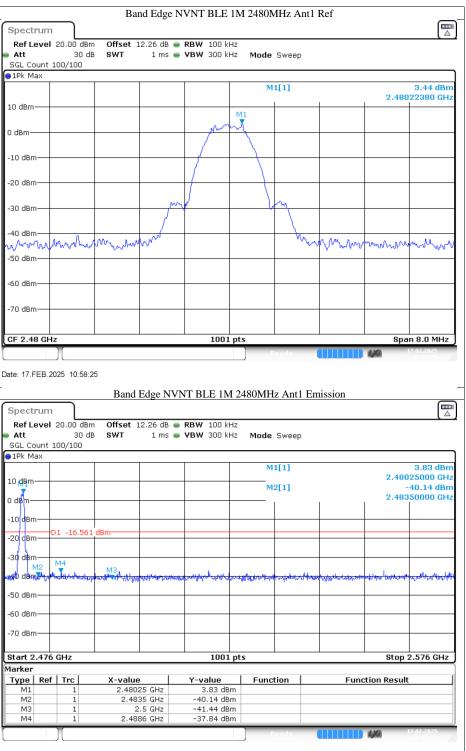




Test result

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Spectrum Ref Level		Pm Offcod	t 12 14 dp	RBW 100	102				
Att		dB SWT		VBW 300		Sweep			
SGL Count 1	100/100								
1Pk Max						1[1]			1.84 dBr
					IM	1[1]		2.402	23180 GH
10 dBm							-		
					M1				
D dBm									
-10 dBm									
-20 dBm					+				
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tte: 17.FEB.20 Spectrum Ref Level Att SGL Count 1 91Pk Max	025 10:4	Ban Bm Offset	t 12.14 dB	VNT BLE 1	M 2402MH kHz kHz Mode	Sweep 1[1]	mission		1.98 dBr 05000 GH
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tte: 17.FEB.20 Spectrum Ref Level Att SGL Count 1 01Pk Max	025 10:4	Ban Bm Offset	t 12.14 dB	VNT BLE 1	M 2402MH kHz kHz Mode	Sweep 1[1]	mission	-	1.98 dBr 05000 GH 39.54MdBr
te: 17.FEB.20 Spectrum Ref Level Att SGL Count 1 Phy Max 10 dBm 0 dBm	025 10:4	Ban Bm Offset	t 12.14 dB	VNT BLE 1	M 2402MH kHz kHz Mode	Sweep 1[1]	mission	-	1.98 dBr 05000 GH 39.54MdBr
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tte: 17.FEB.20 Spectrum Ref Level Att SGL Count 1 SGL Count 1 O 1Pk Max 10 dBm 10 dBm 20 dBm 30 dBm)(Ban Bm Offset SWT 55 dBm	t 12.14 dB 1 ms	VNT BLE 1 RBW 100 VBW 300	M 2402MH	Sweep 1[1] 2[1]		2.400	1.98 dBr 05000 GH 39.54vdBr 00000 GH
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tte: 17.FEB.20 Spectrum Ref Level Att SGL Count 1 SGL Count 1 10 dBm 10 dBm 10 dBm 20 dBm 30 dBm 50 dBm 50 dBm)(Ban Bm Offset SWT 55 dBm	t 12.14 dB 1 ms	VNT BLE 1 RBW 100 VBW 300	M 2402MH	Sweep 1[1] 2[1]		2.400	1.98 dBr 05000 GH 39.54vdBr 00000 GH
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ate: 17.FEB.20 Ref Level Att SGL Count 1 91Pk Max 10 dBm -10 dBm -20 dBm -30 dBm -50 dBm -60 dBm -70 dBm	025 10:4 20.00 d 30 100/100 01 -18.1 удауць_1 GHz GHz	Ban Bm Offset SWT	t 12.14 dB 1 ms	VNT BLE 1 RBW 100 VBW 300 VBW 300 U	M 2402MH kHz Mode M M M M M M M M M M M M M	Sweep 1[1] 2[1] มหาะเหน่าจาน		2.400	1.98 dBr 05000 GH 39.54/dBr 00000 GH
Att: 17.FEB.20 Spectrum Ref Level Att SGL Count 1 SGL Count 1 Pk Max 10 dBm 10 dBm 10 dBm 20 dBm 20 dBm 40 dBm 50 dBm 60 dBm 70 dBm 60 dBm 70 dBm 70 dBm 70 dBm 60 dBm 70	025 10:4 20.00 d 30 100/100 01 -18.1 01 -18.1 01 -18.1 01 -18.1	Ban Bm Offset SWT S5 dBm S5 dBm S5 dBm S5 dBm S5 dBm S5 dBm S5 dBm S5 dBm S5 dBm S5 dBm	12.14 dB 1 ms	VNT BLE 1	M 2402MH	Sweep 1[1] 2[1] มหาะเหน่าจาน		2.400	1.98 dBr 05000 GH 39.54/dBr 00000 GH
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Date: 17.FEB.2025 10:58:28

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9.7 Spurious radiated emissions for transmitter

Test Method

- 1. The EUT was place on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2. The EUT was set 3 meters away from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. The height of antenna 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.
- 4. 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.
- 5. Use the following spectrum analyzer settings According to C63.10:
- For Below 1GHz

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 100 kHz to 120 kHz, VBW≥RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

For Peak unwanted emissions Above 1GHz:

Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 1MHz, VBW≥RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

Procedures for average unwanted emissions measurements above 1000 MHz

a) RBW = 1MHz.

b) VBW \geq [3 × RBW].

c) Detector = RMS (power averaging), if [span / (# of points in sweep)] \leq RBW / 2. Satisfying this condition can require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, then the detector mode shall be set to peak.

d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.)

e) Sweep time = auto.

f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of 1 / D, where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)

g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:

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If power averaging (rms) mode was used in the preceding step e), then the correction factor is [10 log (1 / D)], where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB shall be added to the measured emission levels.
 If linear voltage averaging mode was used in the preceding step e), then the correction factor is [20 log (1 / D)], where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.
 If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

Limit

The radio emission outside the operating frequency band shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. Radiated emissions which fall in the restricted bands, as defined in section 15.205 must comply with the radiated emission limits specified in section 15.209.

Frequency MHz			easured Distance Meters
0.009~0.490	2400/F	(kHz)	300
0.490~1.705	24000/	= (kHz)	30
1.705~30	30	ָרָרָ רַיָּרָ רָיָרָ רַיָּרָ רָיָרָ רָיָרָרָ רָי ביר ביר ביר ביר ביר ביר ביר ביר ביר ביר	30
Frequency	Field Strength	Field Strengt	h Detector
MHz	uV/m	dBµV/m	
30-88	100	40	QP
88-216	150	43.5	QP
216-960	200	46	QP
960-1000	500	54	QP
Above 1000	500	54	AV
		74	PK

Spurious radiated emissions for transmitter

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit. The only worse case test result is listed in the report.

ID-Number: EMC_WUX_F_25.34E Author: Ming GU Phone: +86 510 8820 3737 Fax: +86 510 8820 3636

Test result:



0.009-30MHz Radiated Emission

Common Information

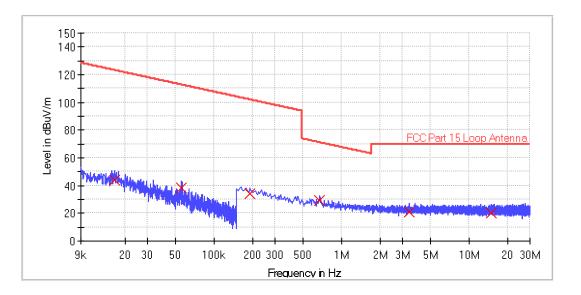
EUT: Model: Client: Operating conditions: Operator name: Input: Sample No: Test standard: Comment: Comment: Wi-Fi and Bluetooth Module T1-M Hanzghou Tuya Information Technology Co., Ltd Power on and TX_2480MHz Zhihua Xia 3.3V DC WUX-889391-2 FCC Part 15.209(a) X T21.2℃, H51.7%, P100.1kPa

Scan Setup: FCC_RE_9K-30M_Max_3m [EMI radiated]

Hardware Setup:	
Receiver:	
Level Unit:	

Radiated E Field 9K-30MHz_3m [ESR 3] dBuV/m

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	80 Hz	PK+	200 Hz	0.01 s	20 dB
150 kHz - 30 MHz	4 kHz	PK+	9 kHz	0.001 s	20 dB



Limit and Margin

Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
0.016440	43.7	1000.0	0.200	130.0	0.0	19.8	79.6	123.3
0.055560	38.5	1000.0	0.200	130.0	0.0	19.5	74.2	112.7
0.190000	34.4	1000.0	9.000	130.0	0.0	19.3	67.6	102.0
0.674000	29.3	1000.0	9.000	130.0	0.0	19.3	41.7	71.0
3.374000	20.7	1000.0	9.000	130.0	0.0	19.2	48.8	69.5
14.822000	20.5	1000.0	9.000	130.0	0.0	18.7	49.0	69.5

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Common Information

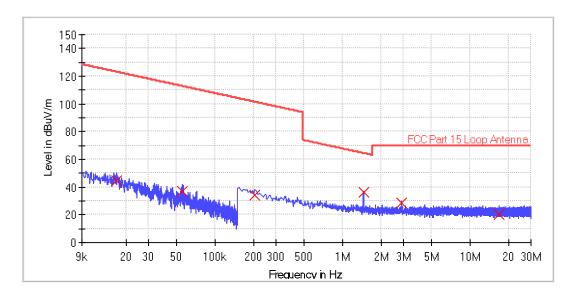
EUT:
Model:
Client:
Operating conditions:
Operator name:
Input:
Sample No:
Test standard:
Comment:
Comment:

Wi-Fi and Bluetooth Module T1-M Hanzghou Tuya Information Technology Co., Ltd Power on and TX_2480MHz Zhihua Xia 3.3V DC WUX-889391-2 FCC Part 15.209(a) Y T21.2°C, H51.7%, P100.1kPa

Scan Setup: FCC_RE_9K-30M_Max_3m [EMI radiated] Hardware Setup: Radiated E Field 9K-30MHz_3m

Hardware Setup: Receiver: Level Unit: Radiated E Field 9K-30MHz_3m [ESR 3] dBuV/m

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	80 Hz	PK+	200 Hz	0.01 s	20 dB
150 kHz - 30 MHz	4 kHz	PK+	9 kHz	0.001 s	20 dB



Limit and Margin

Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
0.0169	20 44.7	1000.0	0.200	130.0	0.0	19.8	78.3	123.0
0.0553	20 37.3	1000.0	0.200	130.0	0.0	19.5	75.5	112.7
0.2060	00 33.8	1000.0	9.000	130.0	0.0	19.3	67.5	101.3
1.4580	00 36.5	1000.0	9.000	130.0	0.0	19.3	27.9	64.4
2.9140	00 28.7	1000.0	9.000	130.0	0.0	19.3	40.8	69.5
16.8500	00 20.3	1000.0	9.000	130.0	0.0	18.7	49.2	69.5

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Phone: +86 510 8820 3737 Fax: +86 510 8820 3636



Common Information

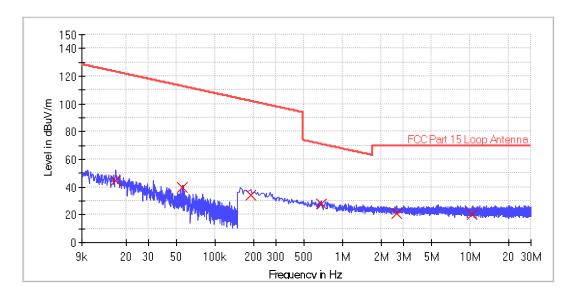
EUT:
Model:
Client:
Operating conditions:
Operator name:
Input:
Sample No:
Test standard:
Comment:
Comment:

Wi-Fi and Bluetooth Module T1-M Hanzghou Tuya Information Technology Co., Ltd Power on and TX_2480MHz Zhihua Xia 3.3V DC WUX-889391-2 FCC Part 15.209(a) Z T21.2°C, H51.7%, P100.1kPa

Scan Setup: FCC_RE_9K-30M_Max_3m [EMI radiated] Hardware Setup: Radiated E Field 9K-30MHz_3m

Hardware Setup: Receiver: Level Unit: Radiated E Field 9K-30MHz_3m [ESR 3] dBuV/m

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	80 Hz	PK+	200 Hz	0.01 s	20 dB
150 kHz - 30 MHz	4 kHz	PK+	9 kHz	0.001 s	20 dB



Limit and Margin

Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
0.016600	44.5	1000.0	0.200	130.0	0.0	19.8	78.7	123.2
0.055480	40.1	1000.0	0.200	130.0	0.0	19.5	72.7	112.7
0.190000	34.5	1000.0	9.000	130.0	0.0	19.3	67.5	102.0
0.682000	27.7	1000.0	9.000	130.0	0.0	19.3	43.2	70.9
2.642000	21.0	1000.0	9.000	130.0	0.0	19.3	48.5	69.5
10.414000	20.3	1000.0	9.000	130.0	0.0	18.8	49.2	69.5

Title: DTS Test Report Revision: 02 Effective date: 2024-08-01 ID-Number: EMC_WUX_F_25.34E Author: Ming GU

Phone: +86 510 8820 3737 Fax: +86 510 8820 3636



30-1000MHz Radiated Emission Test

Common Information

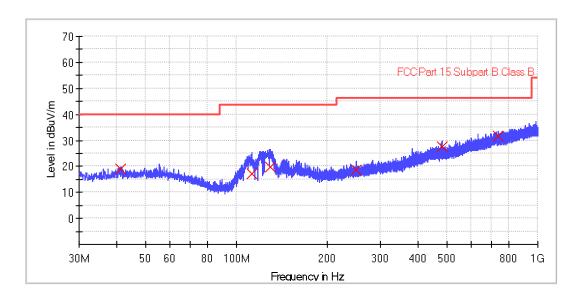
EUT: Model: Client: Operating conditions: Operator name: Input: Sample No: Test standard: Comment: Comment: Wi-Fi and Bluetooth Module T1-M Hanzghou Tuya Information Technology Co., Ltd Power on and TX_2480MHz Zhihua Xia 3.3V DC WUX-889391-2 FCC Part 15.209(a) Horizontal T21.2°C, H51.7%, P100.1kPa

Sweep Setup: RE_30M-1G_Sweep_3m [EMI radiated]

Hardware Setup:
Receiver:
Level Unit:

Radiated E Field 30MHz-1GHz_3m [ESR 3] dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
30 MHz - 1 GHz	48.5 kHz	PK+	120 kHz	0.2 s	20 dB



Limit and Margin

	U							
Frequency	QuasiPeak	Meas. Time	Bandwidth	Height	Azimuth	Corr.	Margin -	Limit -
(MHz)	(dBuV/m)	(ms)	(kHz)	(cm)	(deg)	(dB/m)	QPK	QPK
							(dB)	(dBuV/m)
41.120000	18.9	1000.0	120.000	142.7	121.0	20.4	21.1	40.0
112.160000	17.3	1000.0	120.000	182.1	180.0	18.2	26.2	43.5
129.440000	19.9	1000.0	120.000	206.6	91.0	19.9	23.6	43.5
249.320000	18.8	1000.0	120.000	358.7	288.0	20.5	27.3	46.0
479.840000	27.7	1000.0	120.000	268.7	168.0	27.4	18.4	46.0
736.640000	31.6	1000.0	120.000	256.8	62.0	32.7	14.4	46.0

Title: DTS Test Report Revision: 02 Effective date: 2024-08-01 ID-Number: EMC_WUX_F_25.34E Author: Ming GU Phone: +86 510 8820 3737 Fax: +86 510 8820 3636



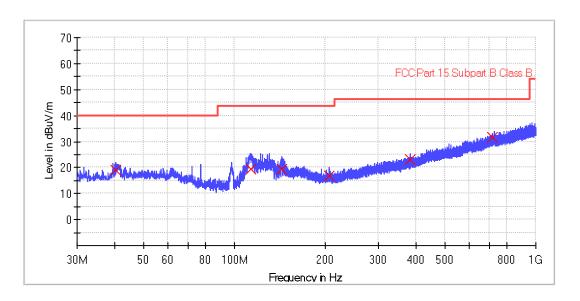
Common Information

EUT: Model: Client: Operating conditions: Operator name: Input: Sample No: Test standard: Comment: Comment: Wi-Fi and Bluetooth Module T1-M Hanzghou Tuya Information Technology Co., Ltd Power on and TX_2480MHz Zhihua Xia 3.3V DC WUX-889391-2 FCC Part 15.209(a) Vertical T21.2°C, H51.7%, P100.1kPa

Sweep Setup: RE_30M-1G_Sweep_3m [EMI radiated]

Hardware Setup: Receiver: Level Unit: Radiated E Field 30MHz-1GHz_3m [ESR 3] dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
30 MHz - 1 GHz	48.5 kHz	PK+	120 kHz	0.2 s	20 dB



Limit and Margin

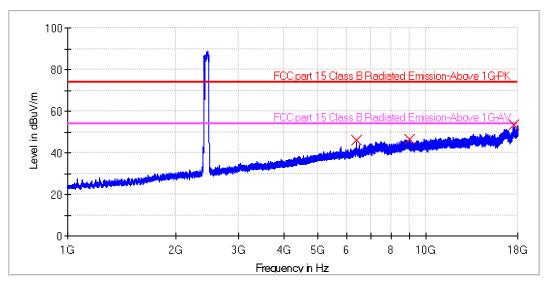
Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
40.360000	19.0	1000.0	120.000	162.7	172.0	20.3	21.0	40.0
112.920000	19.3	1000.0	120.000	227.1	37.0	18.2	24.2	43.5
143.840000	19.4	1000.0	120.000	241.1	238.0	21.1	24.1	43.5
206.480000	16.6	1000.0	120.000	251.3	114.0	18.2	26.9	43.5
383.840000	23.3	1000.0	120.000	189.0	45.0	24.9	22.7	46.0
717.640000	31.6	1000.0	120.000	240.4	69.0	32.1	14.4	46.0

Title: DTS Test Report Revision: 02 Effective date: 2024-08-01 ID-Number: EMC_WUX_F_25.34E Author: Ming GU Phone: +86 510 8820 3737 Fax: +86 510 8820 3636



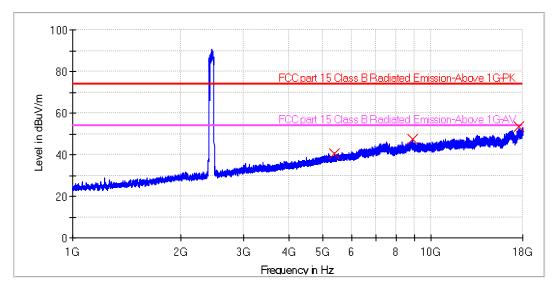
Frequency:2402MHz

Radiated Emission 1-18 GHz



Limit and Margin

Frequency	MaxPea	Meas.	Height	Pol	Azimuth	Corr.	Margin	Limit -
(MHz)	k	Time	(cm)		(deg)	(dB/m)	- PK+	PK+
	(dBuV/	(ms)					(dB)	(dBuV/m)
	m)							
6405.000000	45.8	1000.0	150.0	Н	239.0	7.1	28.2	74.0
8961.500000	46.7	1000.0	150.0	н	185.0	11.8	27.3	74.0
17556.500000	53.4	1000.0	150.0	н	250.0	21.9	20.6	74.0
17550.500000	33.4	1000.0	130.0		230.0	21.3	20.0	/4.

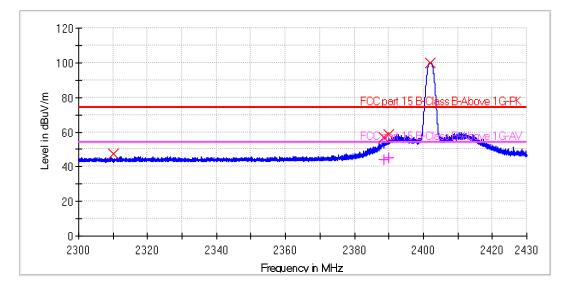


Limit and Margin

Frequency (MHz)	MaxPea k (dBuV/ m)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
5376.000000	40.4	1000.0	150.0	v	98.0	0.7	33.6	74.0
8876.500000	47.3	1000.0	150.0	v	148.0	11.9	26.8	74.0
17593.000000	53.7	1000.0	150.0	V	253.0	21.9	20.3	74.0

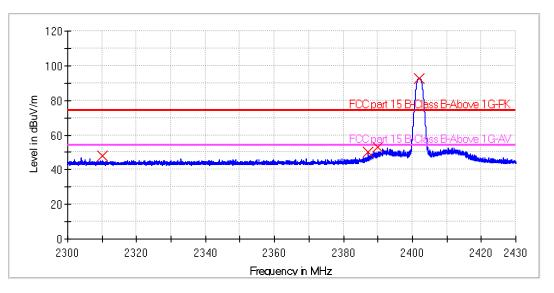
Title: DTS Test Report Revision: 02 Effective date: 2024-08-01 ID-Number: EMC_WUX_F_25.34E Author: Ming GU Phone: +86 510 8820 3737 Fax: +86 510 8820 3636





Limit and Margin

Frequency	MaxPea	RMS	Meas.	Height	Pol	Azimuth	Corr.	Margin	Limit -	Margin
(MHz)	k	(dBuV/m)	Time	(cm)		(deg)	(dB/m)	- PK+	PK+	- AVG
	(dBuV/		(ms)					(dB)	(dBuV/m)	(dB)
	`m)		、 ,					. ,	. ,	. ,
2310.000000	47.5		1000.0	150.0	Н	162.0	34.1	26.5	74.0	
2388.500000	57.1	44.0	1000.0	150.0	н	134.0	34.4	16.9	74.0	10.0
2390.000000	58.4	45.5	1000.0	150.0	н	254.0	34.4	15.6	74.0	8.6
2402.000000	100.1		1000.0	150.0	н	57.0	34.5			-



Limit and Margin

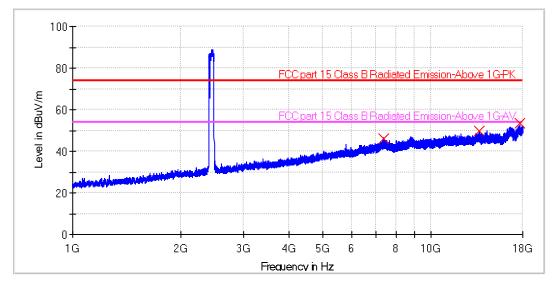
Frequency (MHz)	MaxPea k (dBuV/ m)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
2310.000000	47.9	1000.0	150.0	v	218.0	34.1	26.1	74.0
2387.000000	50.5	1000.0	150.0	V	135.0	34.4	23.6	74.0
2390.000000	52.9	1000.0	150.0	V	71.0	34.4	21.1	74.0
2402.000000	92.9	1000.0	150.0	v	80.0	34.5		

Title: DTS Test Report Revision: 02 Effective date: 2024-08-01 ID-Number: EMC_WUX_F_25.34E Author: Ming GU

Phone: +86 510 8820 3737 Fax: +86 510 8820 3636

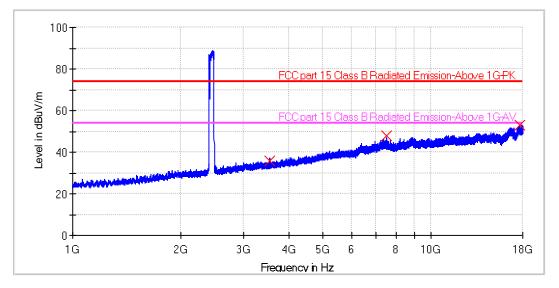


Frequency:2440MHz



Limit and Margin

Frequency (MHz)	MaxPea k (dBuV/ m)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
7387.000000	46.0	1000.0	150.0	н	41.0	8.6	28.0	74.0
13592.000000	49.9	1000.0	150.0	Н	314.0	17.1	24.1	74.0
17618.000000	53.5	1000.0	150.0	Н	211.0	22.0	20.5	74.0



Limit and Margin

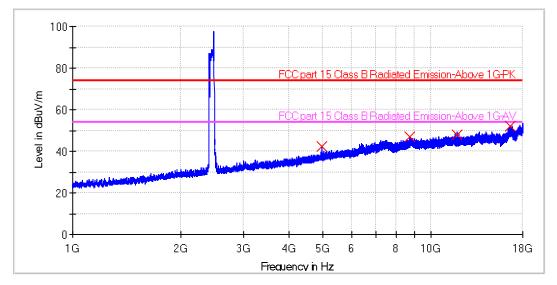
Frequency (MHz)	MaxPea k (dBuV/ m)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
3542.000000	36.0	1000.0	150.0	v	111.0	-5.2	38.0	74.0
7498.000000	47.8	1000.0	150.0	V	192.0	9.3	26.2	74.0
17705.000000	53.2	1000.0	150.0	V	129.0	22.0	20.8	74.0

Title: DTS Test Report Revision: 02 Effective date: 2024-08-01 ID-Number: EMC_WUX_F_25.34E Author: Ming GU

Phone: +86 510 8820 3737 Fax: +86 510 8820 3636

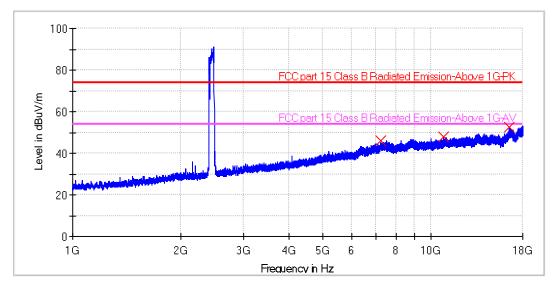


Frequency:2480MHz



Limit and Margin

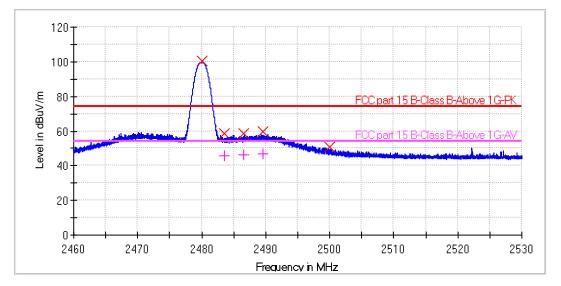
Frequency (MHz)	MaxPea k (dBuV/ m)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
4961.000000	42.4	1000.0	150.0	Н	146.0	0.0	31.6	74.0
8686.000000	47.1	1000.0	150.0	Н	64.0	11.2	26.9	74.0
11810.000000	47.8	1000.0	150.0	Н	119.0	14.2	26.2	74.0
16627.000000	51.9	1000.0	150.0	Н	162.0	19.0	22.1	74.0



Limit and Margin

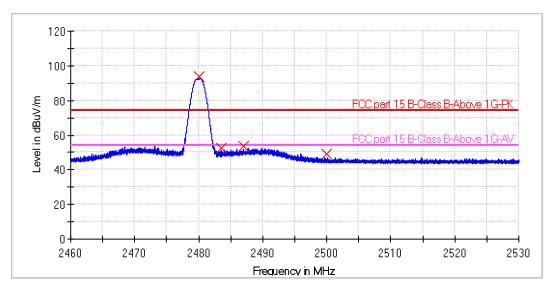
Frequency (MHz)	MaxPea k (dBuV/ m)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
7231.50000) 46.1	1000.0 1000.0	150.0 150.0	V	196.0 180.0	8.7 13.3	27.9 26.2	74.0
16540.500000		1000.0	150.0	v	107.0	18.6	21.5	74.0

Title: DTS Test Report Revision: 02 Effective date: 2024-08-01 ID-Number: EMC_WUX_F_25.34E Author: Ming GU Phone: +86 510 8820 3737 Fax: +86 510 8820 3636



Limit and Margin

Frequency	MaxPea	RMS	Meas.	Height	Pol	Azimuth	Corr.	Margin	Limit -	Margin
(MHz)	k	(dBuV/m)	Time	(cm)		(deg)	(dB/m)	- PK+	PK+	- AVG
	(dBuV/		(ms)					(dB)	(dBuV/m)	(dB)
	̀m)		. ,						. ,	. ,
2480.000000	100.5		1000.0	150.0	н	106.0	34.8			
2483.500000	58.5	46.0	1000.0	150.0	н	60.0	34.8	15.5	74.0	8.0
2486.500000	58.8	46.5	1000.0	150.0	Н	225.0	34.8	15.2	74.0	7.5
2489.500000	59.8	47.2	1000.0	150.0	Н	65.0	34.8	14.2	74.0	6.9
2500.000000	50.8		1000.0	150.0	Н	108.0	34.8	23.2	74.0	-



Limit and Margin

	U							
Frequency (MHz)	MaxPea k (dBuV/ m)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
2480.000000	93.6	1000.0	150.0	v	38.0	34.8		
2483.500000	52.7	1000.0	150.0	v	78.0	34.8	21.3	74.0
2487.000000	53.3	1000.0	150.0	v	112.0	34.8	20.7	74.0
2500.000000	49.3	1000.0	150.0	v	214.0	34.8	24.7	74.0

Title: DTS Test Report Revision: 02 Effective date: 2024-08-01 ID-Number: EMC_WUX_F_25.34E Author: Ming GU Phone: +86 510 8820 3737 Fax: +86 510 8820 3636



Worst case Radiated Emission 18-25 GHz **18-25G Radiated Emission Test**

Common Information

EUT: Model: Client: Operating conditions: Operator name: Input: Sample No: Test standard: Comment: Comment:

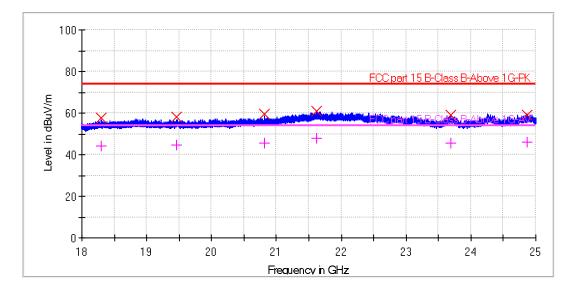
Wi-Fi and Bluetooth Module T1-M Hanzghou Tuya Information Technology Co., Ltd Power on and TX_2480MHz Zhihua Xia 3.3V DC WUX-889391-2 FCC Part 15.209(a) Horizontal T21.2°C, H51.7%, P100.1kPa

Sweep Setup: FCC_RE_18-25G_Sweep_3m [EMI radiated]

Hardware Setup:	
Receiver:	
Level Unit:	

18-40GHz_3m [FSV 40] dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
18 GHz - 25 GHz	500 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

				r					
Frequency	MaxPea	RMS	Meas.	Height	Azimuth	Corr.	Margin	Limit -	Margin
(MHz)	k	(dBuV/m)	Time	(cm)	(deg)	(dB/m)	- PK+	PK+	- AVG
	(dBuV/		(ms)				(dB)	(dBuV/m)	(dB)
	m)								
18300.500000	57.9	44.2	1000.0	180.8	175.0	13.7	16.1	74.0	9.8
19466.000000	58.3	44.6	1000.0	156.1	55.0	14.5	15.7	74.0	9.4
20817.000000	59.4	45.8	1000.0	292.1	182.0	15.6	14.6	74.0	8.2
21623.500000	61.1	48.0	1000.0	205.6	135.0	17.7	12.9	74.0	6.1
23692.500000	58.8	45.5	1000.0	183.3	282.0	15.8	15.2	74.0	8.5
24871.000000	58.9	46.0	1000.0	129.4	27.0	16.1	15.1	74.0	8.0

Title: DTS Test Report Revision: 02 Effective date: 2024-08-01 ID-Number: EMC_WUX_F_25.34E Author: Ming GU

Phone: +86 510 8820 3737 Fax: +86 510 8820 3636

TÜV SÜD Certification and Testing (China)

Co., Ltd. Floor 1-4, Building B, No.37, Tuanjie Road(Middle), Xishan Economic and Technological Development Zone, Wuxi, Jiangsu. Čhina



18-25G Radiated Emission Test

Common Information

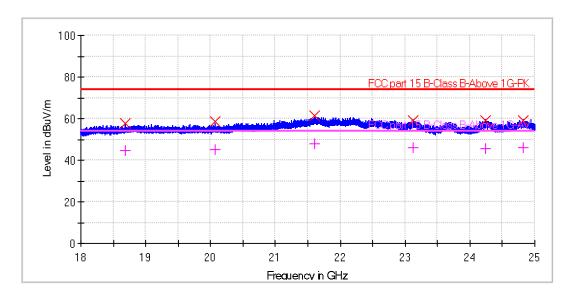
EUT: Model: Client: Operating conditions: Operator name: Input: Sample No: Test standard: Comment: Comment: Wi-Fi and Bluetooth Module T1-M Hanzghou Tuya Information Technology Co., Ltd Power on and TX_2480MHz Zhihua Xia 3.3V DC WUX-889391-2 FCC Part 15.209(a) Vertical T21.2°C, H51.7%, P100.1kPa

Sweep Setup: FCC_RE_18-25G_Sweep_3m [EMI radiated]

Hardware Setup:
Receiver:
Level Unit:

18-40GHz_3m [FSV 40] dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
18 GHz - 25 GHz	500 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency	MaxPea	RMS	Meas.	Height	Azimuth	Corr.	Margin	Limit -	Margin
(MHz)	k	(dBuV/m)	Time	(cm)	(deg)	(dB/m)	- PK+	PK+	- AVG
. ,	(dBuV/		(ms)				(dB)	(dBuV/m)	(dB)
	·m)						. ,	. ,	. ,
18684.500000	57.6	44.6	1000.0	160.7	38.0	14.2	16.4	74.0	9.4
20066.500000	58.6	44.9	1000.0	364.0	213.0	15.0	15.4	74.0	9.1
21609.000000	61.5	47.9	1000.0	195.6	101.0	17.7	12.5	74.0	6.1
23116.000000	59.2	46.1	1000.0	315.8	245.0	16.4	14.8	74.0	7.9
24234.500000	59.0	45.8	1000.0	105.1	120.0	16.1	15.1	74.0	8.2
24825.000000	59.2	46.2	1000.0	275.3	85.0	16.1	14.8	74.0	7.8

Title: DTS Test Report Revision: 02 Effective date: 2024-08-01 ID-Number: EMC_WUX_F_25.34E Author: Ming GU Phone: +86 510 8820 3737 Fax: +86 510 8820 3636 TÜV SÜD Certification and Testing (China) Co., Ltd. Floor 1-4, Building B, No.37, Tuanjie Road(Middle), Xishan Economic and Technological Development Zone, Wuxi,

Jiangsu. Čhina



10 Test Equipment List

List of Test Instruments Test Site1						
	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DATE	CAL. DUE DATE
	Signal Analyzer	Rohde & Schwarz	FSV40	487/641405	2024-04-08	2025-04-07
C	Power Probe	Rohde & Schwarz	NRP-Z81	487/431819	2024-11-23	2025-11-22
С	RF Test System	Rohde & Schwarz	TS8997	487/391835	2024-11-23	2025-11-22
	Coaxial Cable	Rohde & Schwarz	RF03	/	2024-07-27	2025-07-26
	EMI Test Receiver	Rohde & Schwarz	ESR7	487/632315	2024-04-08	2025-04-07
	EMI Test Receiver	Rohde & Schwarz	ESR7	487/632316	2024-04-08	2025-04-07
	Spectrum analyzer	Rohde & Schwarz	FSV3044	487/642307	2024-04-08	2025-04-07
	Broadband Test Antenna	Schwarzbeck	VULB 9168	487/622345	2024-03-15	2025-03-14
	Horn Antenna	Rohde & Schwarz	3115PB	487/622346	2025-01-08	2026-01-08
	Pre-amplifier	Rohde & Schwarz	SCU-18D	487/402318	2024-04-08	2025-04-07
	Pre-amplifier	Rohde & Schwarz	BLMA0118-1M	487/401411	2024-04-08	2025-04-07
RE	Loop antenna	Rohde & Schwarz	HFH2-Z2	487/621128	2024-11-23	2025-11-22
	DOUBLE- RIDGED WAVEGUIDE HORN WITH PRE-AMPLIFIER (18 GHZ - 40 GHZ)	ETS-Lindgren	3116C-PA	487/622347	2024-08-19	2025-08-18
	3m Semi- anechoic chamber	TDK	9.2mx6.2mx6.2m	487/772307	2023-02-24	2026-02-23
	3m Fully anechoic chamber	TDK	9.2mx6.2mx6.2m	487/772304	2023-03-30	2026-03-29
	Coaxial Cable	Rohde & Schwarz	RF02	/	2024-07-27	2025-07-26
CE	EMI Test Receiver	Rohde & Schwarz	ESW8	487/631911	2024-04-08	2025-04-07
-	LISN	Rohde & Schwarz	NSLK8127	487/601428	2024-09-02	2025-09-01

	Measurement Software Information						
Test Item	Software	Manufacturer	Version				
С	MTS 8310	MAXWELL	2.0.0.0				
RE	EMC 32	Rohde & Schwarz	V10.50.40				
CE	EMC 32	Rohde & Schwarz	V9.15.03				

C - Conducted RF tests

- Conducted peak output power
- 6dB bandwidth and 99% Occupied Bandwidth
- Power spectral density*
- Spurious RF conducted emissions
- Band edge

Title: DTS Test Report Revision: 02 Effective date: 2024-08-01 ID-Number: EMC_WUX_F_25.34E Author: Ming GU Phone: +86 510 8820 3737 Fax: +86 510 8820 3636



11 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

Items	Extended Uncertainty
Conducted Disturbance at Mains Terminals	150kHz to 30MHz, LISN, 3.07dB
Radiated Disturbance	9kHz to 30MHz, 2.83dB
	30MHz to 1GHz, 4.12dB (Horizontal)
	4.30dB (Vertical)
	1GHz to 18GHz, 5.04dB
	18GHz to 40GHz, 5.42dB
RF Conducted Measurement	Power related: 1.32dB
	Frequency related: 5.6x10-6 or 1%

Measurement Uncertainty Decision Rule:

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115: 2023, clause 4.3.3.

Title: DTS Test Report Revision: 02 Effective date: 2024-08-01 ID-Number: EMC_WUX_F_25.34E Author: Ming GU Phone: +86 510 8820 3737 Fax: +86 510 8820 3636

12 Photographs of Test Set-ups

Refer to the < Test Setup photos >.

13 Photographs of EUT

Refer to the < External Photos > & < Internal Photos >.

-----End of Test Report-----End of Test

Title: DTS Test Report Revision: 02 Effective date: 2024-08-01 ID-Number: EMC_WUX_F_25.34E Author: Ming GU

Phone: +86 510 8820 3737 Fax: +86 510 8820 3636

