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TEST REPORT

Product Digital Thermometer

Trade mark N/A

Model/Type reference : DMT-4775p, DMT-4773p,

> DMT-4765p, DMT-4763p, DMT-4775b, DMT-4773b, DMT-4765b, DMT-4763b

Serial Number : N/A

Report Number EED32Q80499201

FCC ID 2AQVU0050 Date of Issue Oct. 23, 2024

Test Standards 47 CFR Part 15 Subpart C

Test result PASS

Prepared for:

JOYTECH Healthcare Co., Ltd. No. 365, Wuzhou Road, 311100 Hangzhou, Zhejiang Province, P.R. of China

Prepared by:

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2 Version

Version No.	Date	Description Original			
00	Oct. 23, 2024				
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(,	(2)	650	(6,0)	(0,1)	











































































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3 Test Summary

		7 2 3 3	
Test Item	Test Requirement	Result	
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203/15.247 (c)	PASS	
AC Power Line Conducted Emission	47 CFR Part 15 Subpart C Section 15.207	N/A	
DTS Bandwidth	47 CFR Part 15 Subpart C Section 15.247 (a)(2)	PASS	
Maximum Conducted Output Power	47 CFR Part 15 Subpart C Section 15.247 (b)(3)	PASS	
Maximum Power Spectral Density	47 CFR Part 15 Subpart C Section 15.247 (e)	PASS	
Band Edge Measurements	47 CFR Part 15 Subpart C Section 15.247(d)	PASS	
Conducted Spurious Emissions	47 CFR Part 15 Subpart C Section 15.247(d)	PASS	
Radiated Spurious Emission & Restricted bands	47 CFR Part 15 Subpart C Section 15.205/15.209	PASS	

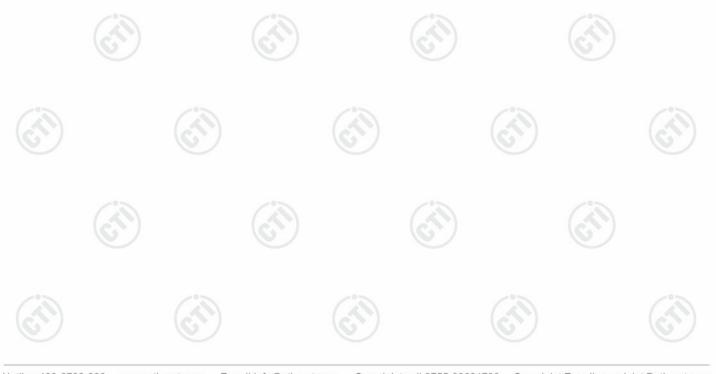
Remark:

N/A: Inapplicability

Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

Model No.: DMT-4775p, DMT-4773p, DMT-4765p, DMT-4763p, DMT-4775b, DMT-4773b, DMT-4765b, DMT-4763b

Only the model DMT-4775p was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference is only for color and housing.





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4 General Information

4.1 Client Information

Applicant:	JOYTECH Healthcare Co., Ltd.
Address of Applicant:	No. 365, Wuzhou Road, 311100 Hangzhou, Zhejiang Province, P.R. of China
Manufacturer:	JOYTECH Healthcare Co., Ltd.
Address of Manufacturer:	No. 365, Wuzhou Road, 311100 Hangzhou, Zhejiang Province, P.R. of China
Factory:	JOYTECH Healthcare Co., Ltd.
Address of Factory:	No. 365, Wuzhou Road, 311100 Hangzhou, Zhejiang Province, P.R. of China

4.2 General Description of EUT

Product Name:	Digital Thermometer					
Model No.:	DMT-4775p, DMT-4773p, DMT-4765p, DMT-4763p, DMT-4775b, DMT-4773b, DMT-4765b, DMT-4763b					
Test Model:	DMT-4775p	(61)				
Trade mark:	N/A					
Product Type:	☐ Mobile ☐ Portable ☐ Fix Location					
Operation Frequency:	2402MHz~2480MHz					
Modulation Type:	GFSK					
Transfer Rate:	⊠ 1Mbps □ 2Mbps					
Number of Channel:	40					
Antenna Type:	PCB Antenna					
Antenna Gain:	2.02dBi					
Power Supply:	Battery: DC 3V					
Test Voltage:	DC 3.3V					
Sample Received Date:	Aug. 09, 2024					
Sample tested Date:	Aug. 09, 2024 to Aug. 11, 2024					





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

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:

Channel	Frequency
The lowest channel (CH0)	2402MHz
The middle channel (CH19)	2440MHz
The highest channel (CH39)	2480MHz

4.3 Test Configuration

EUT Test Software	Settings:			
Test Software:	SSCOM V5	5.13.1	(1)	(2.53)
EUT Power Grade:	Default (Po selected)	wer level is built-in	set parameters and o	cannot be changed and
Use test software to transmitting of the E	set the lowest frequency UT.	/, the middle freque	ncy and the highest f	requency keep
Test Mode	Modulation	Rate	Channel	Frequency(MHz)
Mode a	GFSK	1Mbps	CH0	2402
Mode b	GFSK	1Mbps	CH19	2440
Mode c	GFSK	1Mbps	CH39	2480













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4.4 Test Environment

	Operating Environment	::								
	Radiated Spurious Emissions:									
10	Temperature:	22~25.0 °C	(4)		(41)		(4)			
	Humidity:	50~55 % RH	0		(0)		(0)			
	Atmospheric Pressure:	1010mbar								
	Conducted Emissions:									
	Temperature:	22~25.0 °C		(20)		(30)				
	Humidity:	50~55 % RH		(0,)		(0,)				
	Atmospheric Pressure:	1010mbar								
	RF Conducted:									
	Temperature:	22~25.0 °C	(°)		(3)					
(i	Humidity:	50~55 % RH	(5,2)		(6,7)		(6,7)			
	Atmospheric Pressure:	1010mbar								

4.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
Netbook	HP	HP ZHAN 66 Pro	FCC&CE	СТІ
	(P)	14 G4 Notebook		
		PC	(0,)	(6,2)

4.6 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted. FCC Designation No.: CN1164







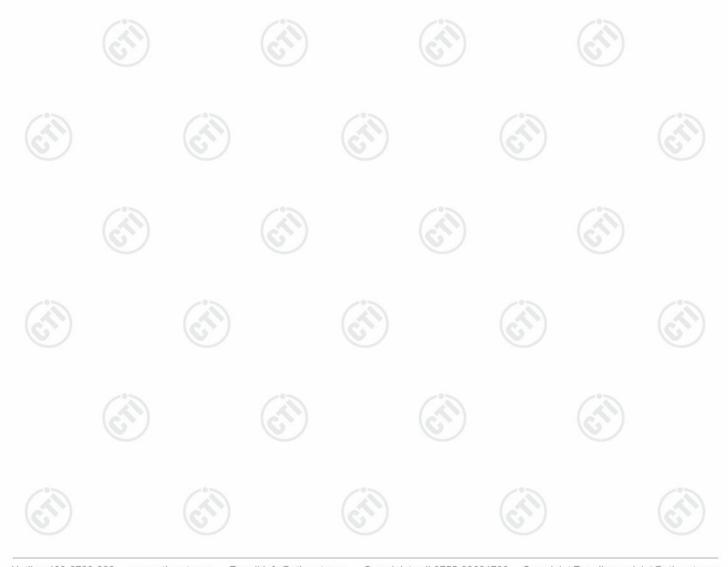






4.7 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty	
1	Radio Frequency	7.9 x 10 ⁻⁸	
2	DE nower conducted	0.46dB (30MHz-1GHz)	
2	RF power, conducted	0.55dB (1GHz-40GHz)	
	6	3.3dB (9kHz-30MHz)	
3	Radiated Spurious emission test	4.3dB (30MHz-1GHz)	
3		4.5dB (1GHz-18GHz)	
(P)		3.4dB (18GHz-40GHz)	
	Conduction emission	3.5dB (9kHz to 150kHz)	
4	Conduction emission	3.1dB (150kHz to 30MHz)	
5	Temperature test	0.64°C	
6	Humidity test	3.8%	
7	DC power voltages	0.026%	





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5 Equipment List

	RF test system						
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)		
Spectrum Analyzer	Keysight	N9010A	MY54510339	12-14-2023	12-13-2024		
Signal Generator	Keysight	N5182B	MY53051549	12-11-2023	12-10-2024		
DC Power	Keysight	E3642A	MY56376072	12-11-2023	12-10-2024		
Communication test	R&S	CMW500	169004	03-08-2024	03-07-2025		
RF control unit(power unit)	JS Tonscend	JS0806-2	22G8060592	07-22-2024	07-21-2025		
Wi-Fi 7GHz Band Extendder	JS Tonscend	TS-WF7U2	2206200002	05-31-2024	05-30-2025		
High-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	12-11-2023	12-10-2024		
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	05-29-2024	05-28-2025		
BT&WI-FI Automatic test software	JS Tonscend	JS1120-3	V3.3.20				
Spectrum Analyzer	R&S	FSV3044	101509	01-17-2024	01-16-2025		





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					[20]
	3M Semi-an	echoic Chamber (2)-	Radiated disturba	ance Test	
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Due Date
3M Chamber & Accessory Equipment	TDK	SAC-3)	05/22/2022	05/21/2025
Receiver	R&S	ESCI7	100938-003	09/22/2023	09/21/2024
Spectrum Analyzer	R&S	FSV40	101200	07/18/2024	07/17/2025
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-618	05/22/2022	05/21/2025
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04/16/2024	04/15/2025
Microwave Preamplifier	Tonscend	EMC051845SE	980380	12/14/2023	12/13/2024
Horn Antenna	A.H.SYSTEMS	SAS-574	374	07/02/2023	07/01/2026
Horn Antenna	ETS-LINGREN	BBHA 9120D	9120D-1869	04/16/2024	04/15/2025
Preamplifier	Agilent	11909A	12-1	03/22/2024	03/21/2025
Preamplifier	CD	PAP-1840-60	6041.6042	06/19/2024	06/18/2025
Test software	Fara	EZ-EMC	EMEC-3A1-Pre		
Cable line	Fulai(7M)	SF106	5219/6A		
Cable line	Fulai(6M)	SF106	5220/6A		
Cable line	Fulai(3M)	SF106	5216/6A		
Cable line	Fulai(3M)	SF106	5217/6A	(C.)	













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		3M full-anechoi	c Chamber		
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date
RSE Automatic test software	JS Tonscend	JS36-RSE	10166		- 6
Receiver	Keysight	N9038A	MY57290136	01-09-2024	01-08-2025
Spectrum Analyzer	Keysight	N9020B	MY57111112	01-19-2024	01-18-2025
Spectrum Analyzer TRILOG	Keysight	N9030B	MY57140871	01-13-2024	01-12-2025
Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-28-2024	04-27-2025
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-16-2024	04-15-2025
Horn Antenna	ETS-LINDGREN	3117	57407	07-03-2024	07-02-2025
Preamplifier	Tonscend	EMC051845SE	980380	12-14-2023	12-13-2024
Preamplifier	EMCI	EMC001330	980563	03-08-2024	03-07-2025
Preamplifier	JS Tonscend	TAP-011858	AP21B806112	07-18-2024	07-17-2025
Communication test set	R&S	CMW500	102898	12-14-2023	12-13-2024
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-07-2024	04-06-2025
Fully Anechoic Chamber	TDK	FAC-3		01-09-2024	01-08-2027
Cable line	Times	SFT205-NMSM-2.50M	394812-0001	(<u> </u>
Cable line	Times	SFT205-NMSM-2.50M	394812-0002		
Cable line	Times	SFT205-NMSM-2.50M	394812-0003		(2
Cable line	Times	SFT205-NMSM-2.50M	393495-0001	(C)	©
Cable line	Times	EMC104-NMNM-1000	SN160710		
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	/	<i>(</i> 2)
Cable line	Times	SFT205-NMNM-1.50M	381964-0001	(D
Cable line	Times	SFT205-NMSM-7.00M	394815-0001		
Cable line	Times	HF160-KMKM-3.00M	393493-0001		(2

Hotline:400-6788-333 www.cti-cert.com E-mail:info@cti-cert.com Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com



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6 Test results and Measurement Data

6.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C 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(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna: Please see Internal photos

The antenna is PCB antenna. The best case gain of the antenna is 2.02dBi.





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6.2 Maximum Conducted Output Power

Test Requirement: 47 CFR Part 15C Section 15.247 (b)(3) Test Method: ANSI C63.10 2013 Test Setup:	
Test Setup:	
Test Setup:	
Control Control Control Power Supply Power Supply Table RF test System Instrument Table	
Remark: Offset=Cable loss+ attenuation factor.	
Test Procedure: a) Set the RBW ≥ DTS bandwidth. b) Set VBW ≥ 3 × RBW. c) Set span ≥ 3 x RBW d) Sweep time = auto couple.	(C.)
e) Detector = peak. f) Trace mode = max hold. g) Allow trace to fully stabilize. h) Use peak marker function to determine the peak amplitude leve	l.
Limit: 30dBm	/°>
Test Mode: Refer to clause 5.3	(12)
Test Results: Refer to Appendix Bluetooth LE	

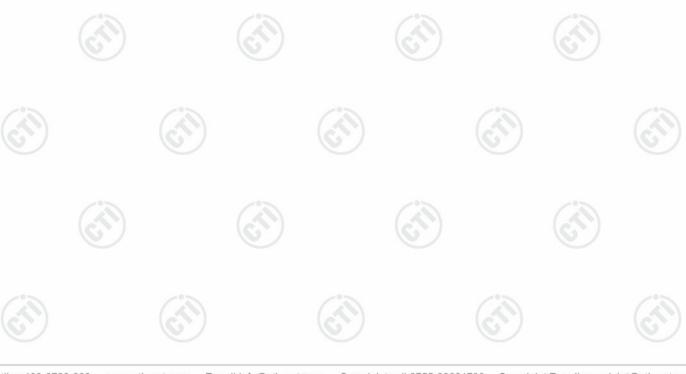




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6.3 DTS Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10 2013
Test Setup:	
	Control Conputer Power Supply Attenuator Table RF test System System Instrument
	Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	a) Set RBW = 100 kHz. b) Set the VBW ≥[3 × RBW]. c) Detector = peak. d) Trace mode = max hold. e) Sweep = auto couple. f) Allow the trace to stabilize. g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.
Limit:	≥ 500 kHz
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix Bluetooth LE







6.4 Maximum Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)	
Test Method:	ANSI C63.10 2013	
Test Setup:		
	Control Computer Computer Computer Computer Computer Computer Computer Computer Actemna Actemna Actemna Actemna Attenuator Temperature Cabnet Table RF tes System Instrum	n s
	Remark: Offset=Cable loss+ attenuation factor.	
Test Procedure:	 a) Set analyzer center frequency to DTS channel b) Set the span to 1.5 times the DTS bandwidth. c) Set the RBW to 3 kHz ≤ RBW ≤ 100 kHz. d) Set the VBW ≥ [3 × RBW]. e) Detector = peak. f) Sweep time = auto couple. g) Trace mode = max hold. h) Allow trace to fully stabilize. i) Use the peak marker function to determine the within the RBW. j) If measured value exceeds requirement, ther than 3 kHz) and repeat. 	e maximum amplitude level
Limit:	≤8.00dBm/3kHz	
Test Mode:	Refer to clause 5.3	-05
Test Results:	Refer to Appendix Bluetooth LE	

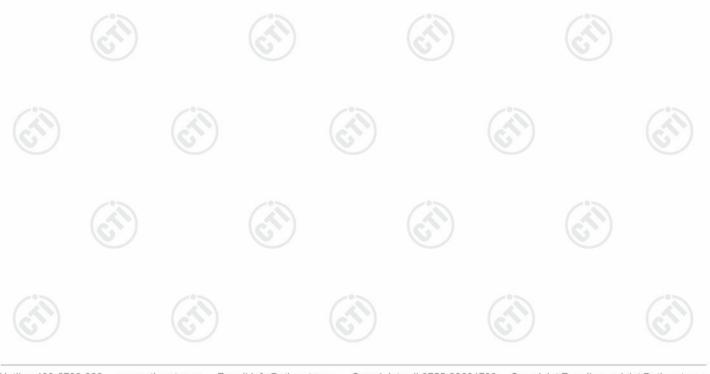






6.5 Band Edge measurements and Conducted Spurious Emission

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10 2013
Test Setup:	Control Conquise Power Supply Attenuator Instrument Table RF test System Instrument
	Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	a) Set RBW =100KHz. b) Set VBW = 300KHz. c) Sweep time = auto couple. d) Detector = peak. e) Trace mode = max hold. f) Allow trace to fully stabilize. g) Use peak marker function to determine the peak amplitude level.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is 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.
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix Bluetooth LE

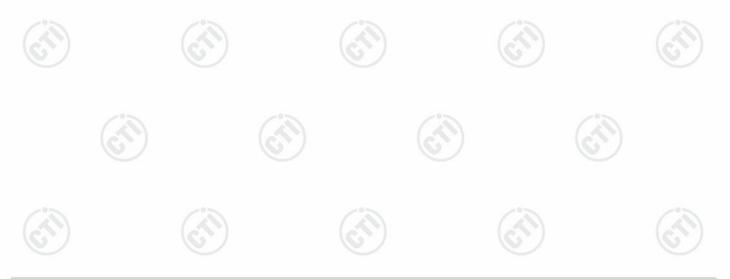






6.6 Radiated Spurious Emission & Restricted bands

Test Requirement:	47 CFR Part 15C Sec	tion 1	15.209 and 1	5.205		160				
Test Method:	ANSI C63.10 2013									
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)									
Receiver Setup:	Frequency	(0)	Detector	RB	W	VBW	Remark			
	0.009MHz-0.090M	Hz	Peak	10k	Hz	30kHz	Peak			
	0.009MHz-0.090M	Hz	Average	10k	Hz	30kHz	Average			
	0.090MHz-0.110M	Hz	Quasi-pea	ak 10k	Hz	30kHz	Quasi-peak			
	0.110MHz-0.490M	Hz	Peak	10k	Hz	30kHz	Peak			
	0.110MHz-0.490M	Hz	Average	10k	Hz	30kHz	Average			
	0.490MHz -30MH	lz	Quasi-pea	ak 10k	Hz	30kHz	Quasi-peak			
	30MHz-1GHz		Quasi-pea	ak 100	kHz	300kHz	Quasi-peak			
	Above 1GHz		Peak	1M	Hz	3MHz	Peak			
			Peak	1M	Hz	10kHz	Average			
Limit:	Eredijenev		d strength ovolt/meter)	Limit er) (dBuV/m)		emark	Measurement distance (m)			
	0.009MHz-0.490MHz	240	00/F(kHz)	-	- /0		300			
	0.490MHz-1.705MHz	240	00/F(kHz)	-	- (3		30			
	1.705MHz-30MHz		30	-	- 6		30			
	30MHz-88MHz		100	40.0	Quasi-peak		3			
	88MHz-216MHz		150	43.5	Qua	asi-peak	3			
	216MHz-960MHz	[1]	200	46.0	Quasi-peak		3			
	960MHz-1GHz		500	54.0	Qua	asi-peak	3			
	Above 1GHz		500	54.0	A۱	verage	3			
	Note: 15.35(b), frequency emissions limit applicable to the peak emission level ra	is 20d equip	dB above the oment under	e maximu test. This	m pe	rmitted av	erage emissio			





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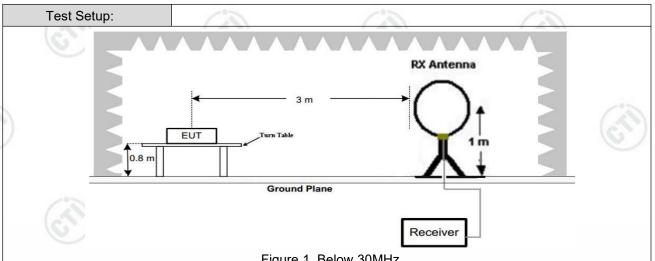
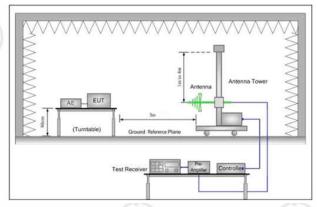


Figure 1. Below 30MHz



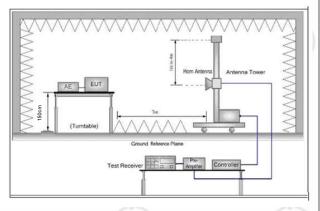


Figure 2. 30MHz to 1GHz

Figure 3. Above 1 GHz

Test Procedure:

- 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest
 - 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.

Note: For the radiated emission test above 1GHz:

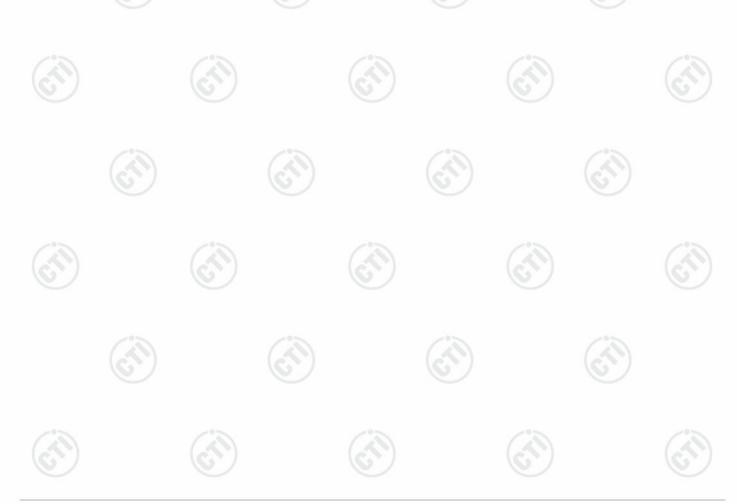
Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which 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.

- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both



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Test Results:	Pass
Test Mode:	Refer to clause 5.3
	i. Repeat above procedures until all frequencies measured was complete.
	h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
	g. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz)
	f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
	e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	d. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	horizontal and vertical polarizations of the antenna are set to make the measurement.





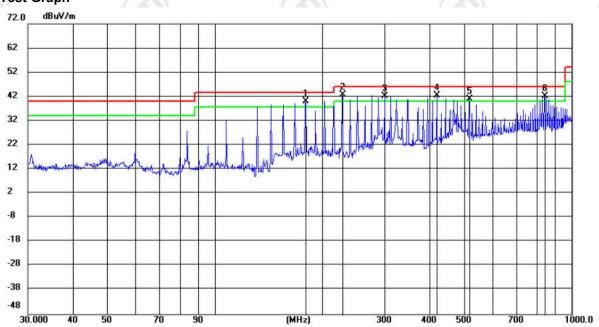


Radiated Spurious Emission below 1GHz:

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes, only the worst case highest channel of GFSK 1M was recorded in the report.

Horizontal:





No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	!	180.0164	26.80	13.26	40.06	43.50	-3.44	QP	199	200	
2	*	228.0100	27.25	15.43	42.68	46.00	-3.32	QP	100	14	
3	1	299.9988	23.47	18.62	42.09	46.00	-3.91	QP	100	14	
4	1	419.9907	21.20	21.31	42.51	46.00	-3.49	QP	100	24	
5	1	515.9796	17.18	23.81	40.99	46.00	-5.01	QP	100	162	
6	!	840.0650	12.32	29.71	42.03	46.00	-3.97	QP	100	25	









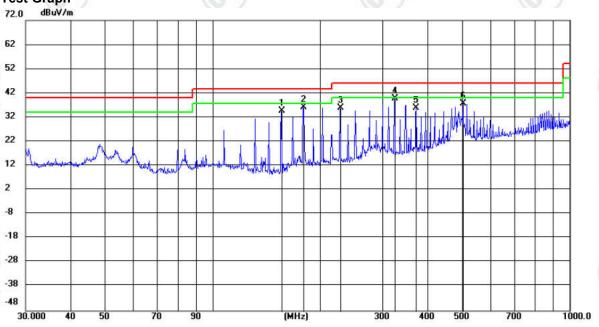






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Vertical:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		155.9921	24.58	10.05	34.63	43.50	-8.87	QP	200	300	
2		179.9849	24.18	11.86	36.04	43.50	-7.46	QP	200	259	
3		228.0102	22.01	13.81	35.82	46.00	-10.18	QP	200	92	
4	*	324.0013	22.71	17.15	39.86	46.00	-6.14	QP	100	91	
5		372.0045	17.77	18.10	35.87	46.00	-10.13	QP	100	113	
6		503.9987	16.76	21.02	37.78	46.00	-8.22	QP	100	123	







Radiated Spurious Emission above 1GHz:

Mode:			Bluetooth LE G	FSK Transmit	Channel:		2402 MHz		
NO	Freq. [MHz]	Factor	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1164.8165	7.62	41.15	48.77	74.00	25.23	Pass	Н	PK
2	1735.6736	8.50	37.33	45.83	74.00	28.17	Pass	Н	PK
3	4804.1203	-13.44	53.20	39.76	74.00	34.24	Pass	Н	PK
4	6662.2442	-8.10	54.06	45.96	74.00	28.04	Pass	Н	PK
5	9988.4659	-0.89	46.94	46.05	74.00	27.95	Pass	Н	PK
6	14780.7854	8.49	39.38	47.87	74.00	26.13	Pass	Н	PK
7	1155.2155	7.52	38.61	46.13	74.00	27.87	Pass	V	PK
8	1732.6733	8.50	37.65	46.15	74.00	27.85	Pass	V	PK
9	4803.1202	-13.44	58.33	44.89	74.00	29.11	Pass	V	PK
10	7205.2804	-7.82	49.87	42.05	74.00	31.95	Pass	V	PK
11	10910.5274	0.43	44.14	44.57	74.00	29.43	Pass	V	PK
12	14134.7423	7.33	38.78	46.11	74.00	27.89	Pass	V	PK

Mode:			Bluetooth LE GFSK Transmitting			Channel:		2440 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1246.6247	7.87	39.80	47.67	74.00	26.33	Pass	Н	PK
2	1946.2946	8.98	37.24	46.22	74.00	27.78	Pass	Н	PK
3	3332.0221	-18.11	55.47	37.36	74.00	36.64	Pass	Н	PK
4	4879.1253	-13.46	56.33	42.87	74.00	31.13	Pass	Н	PK
5	5994.1996	-10.95	54.08	43.13	74.00	30.87	Pass	Н	PK
6	10000.4667	-0.79	46.47	45.68	74.00	28.32	Pass	Н	PK
7	1103.0103	6.95	38.37	45.32	74.00	28.68	Pass	V	PK
8	1840.8841	8.66	36.75	45.41	74.00	28.59	Pass	V	PK
9	3450.03	-18.13	53.29	35.16	74.00	38.84	Pass	V	PK
10	4879.1253	-13.46	58.80	45.34	74.00	28.66	Pass	V	PK
11	7321.2881	-6.72	48.80	42.08	74.00	31.92	Pass	V	PK
12	14237.7492	6.85	40.37	47.22	74.00	26.78	Pass	V	PK













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10%						20%					
	Mode	ode:		Bluetooth LE GFSK Transmitting			Channel:	2480 MHz			
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
ſ	1	1161.2161	7.58	40.91	48.49	74.00	25.51	Pass	Н	PK	
9	2	1595.0595	7.99	37.43	45.42	74.00	28.58	Pass	Н	PK	
	3	3324.0216	-18.10	56.48	38.38	74.00	35.62	Pass	Н	PK	
	4	4960.1307	-13.35	56.68	43.33	74.00	30.67	Pass	Н	PK	
Ī	5	7439.296	-6.30	48.45	42.15	74.00	31.85	Pass	Н	PK	
Ī	6	9919.4613	-1.45	48.12	46.67	74.00	27.33	Pass	Н	PK	
Ī	7	1194.2194	7.94	37.89	45.83	74.00	28.17	Pass	V	PK	
Ī	8	1668.8669	8.35	37.32	45.67	74.00	28.33	Pass	V	PK	
Ī	9	3540.036	-17.88	53.38	35.50	74.00	38.50	Pass	V	PK	
Ī	10	4960.1307	-13.35	59.34	45.99	74.00	28.01	Pass	V	PK	
3	11	7440.296	-6.29	48.15	41.86	74.00	32.14	Pass	V	PK	
6	12	9920.4614	-1.45	47.02	45.57	74.00	28.43	Pass	V	PK	

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 - Final Test Level =Receiver Reading + Antenna Factor + Cable Factor Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

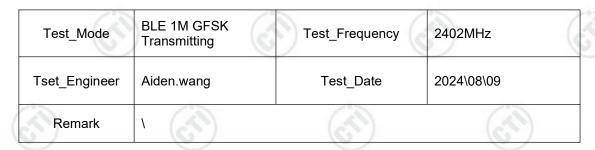


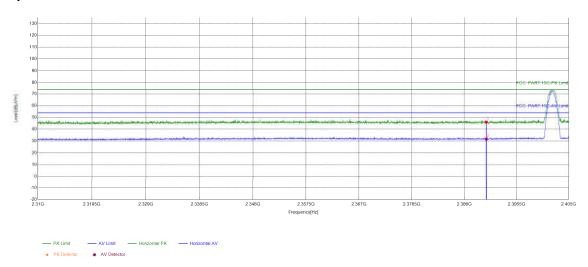




Restricted bands:

Test plot as follows:





Suspecte	Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
1	2390	9.96	36.16	46.12	74.00	27.88	PASS	Horizontal	PK	
2	2390	9.96	21.80	31.76	54.00	22.24	PASS	Horizontal	AV	







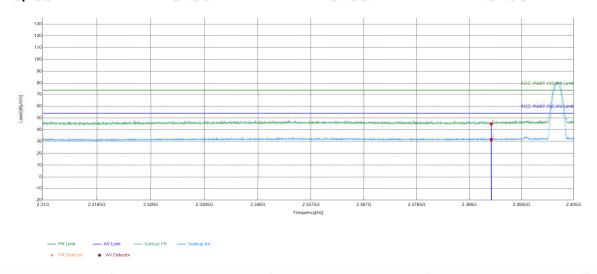




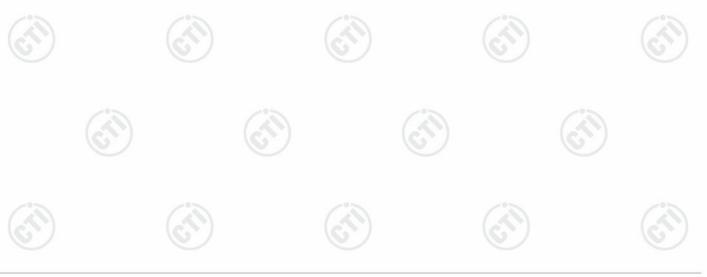


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6.2	(6.5)	16.7	162
Test_Mode	BLE 1M GFSK Transmitting	Test_Frequency	2402MHz
Tset_Engineer	Aiden.wang	Test_Date	2024\08\09
Remark	1		



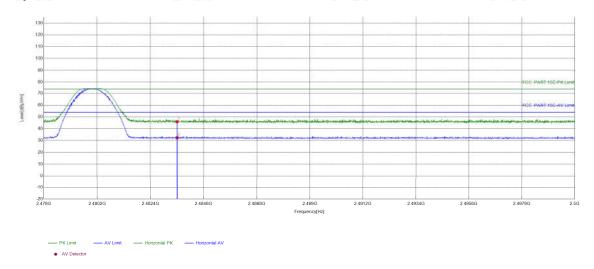
Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	9.96	35.02	44.98	74.00	29.02	PASS	Vertical	PK
2	2390	9.96	21.78	31.74	54.00	22.26	PASS	Vertical	AV



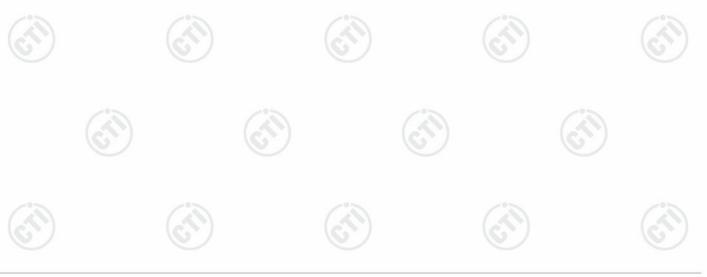


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651	(6)	(C.)	1627
Test_Mode	BLE 1M GFSK Transmitting	Test_Frequency	2480MHz
Tset_Engineer	Aiden.wang	Test_Date	2024\08\09
Remark	1		



Suspecte	d List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	10.38	35.59	45.97	74.00	28.03	PASS	Horizontal	PK
2	2483.5	10.38	21.98	32.36	54.00	21.64	PASS	Horizontal	AV

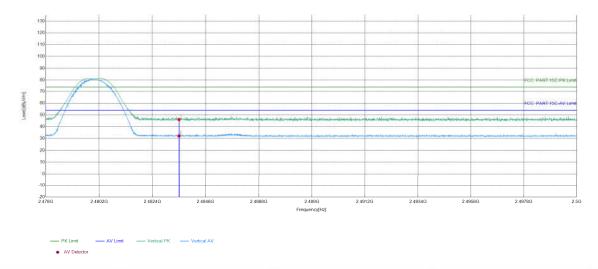




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	1000	102	1627
Test_Mode	BLE 1M GFSK Transmitting	Test_Frequency	2480MHz
Tset_Engineer	Aiden.wang	Test_Date	2024\08\09
Remark	1		

Test Graph



	Suspected List									
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
Ī	1	2483.5	10.38	35.76	46.14	74.00	27.86	PASS	Vertical	PK
	2	2483.5	10.38	21.89	32.27	54.00	21.73	PASS	Vertical	AV

Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading -Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor





















Appendix Bluetooth LE





Refer to Appendix: Bluetooth LE of EED32Q80499201

















































































