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TEST REPORT

Product : Digital Thermometer

Trade mark : N/A

Model/Type reference : DMT-4770b

Serial Number : N/A

Report Number : EED32P81943401

FCC ID : 2AQVU0045

Date of Issue : Feb. 04, 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:

Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

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Feb. 04, 2024

Date:

., ____ .

Check No.: 1831281123



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3 Version

Version No.	Date	(6)	Description	
00	Feb. 04, 2024		Original	
	0	10	0	
((50)	960)	(85)	(67)

















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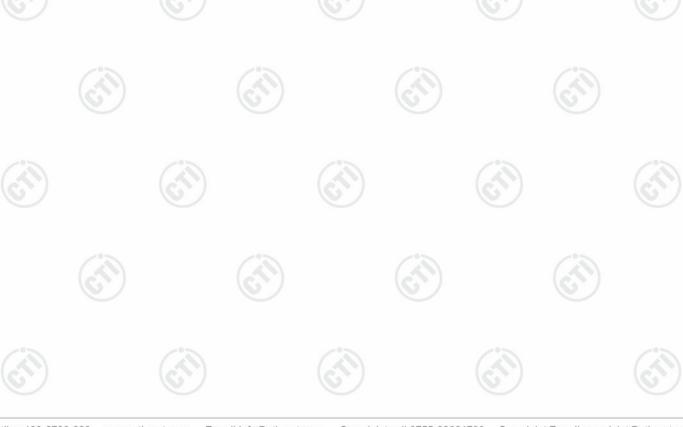
4 Test Summary

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	

N/A:Only battery supply is supported and this item is not considered.

Remark:

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.







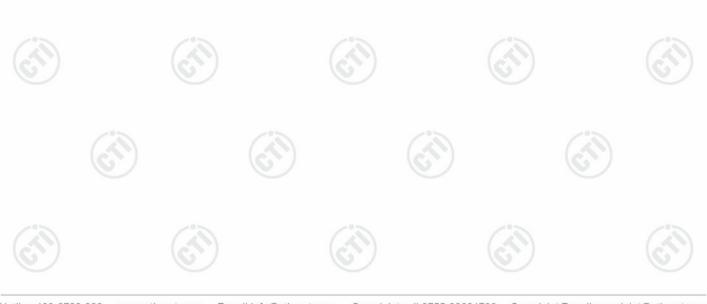
5 General Information

5.1 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.502, Shunda Road, 311100 Hangzhou, Zhejiang Province, PEOPLE's REPUBLIC OF CHINA

5.2 General Description of EUT

Product Name:	Digital Thermometer	
Model No.:	DMT-4770b	
Trade mark:	N/A	
Product Type:	☐ Mobile ☐ Portable ☐ Fix Location	6
Test software of EUT:	PhyPlusKit	
Operation Frequency:	2402MHz~2480MHz	
Modulation Type:	GFSK	
Transfer Rate:	1Mbps, 2Mbps	
Number of Channel:	40	
Antenna Type:	PCB Antenna	
Antenna Gain:	-1.37612dBi	(3)
Power Supply:	Battery DC 3.0V	(0)
Test Voltage:	DC 3.0V	
Sample Received Date:	Nov. 29, 2023	
Sample tested Date:	Nov. 29, 2023 to Dec. 01, 2023	



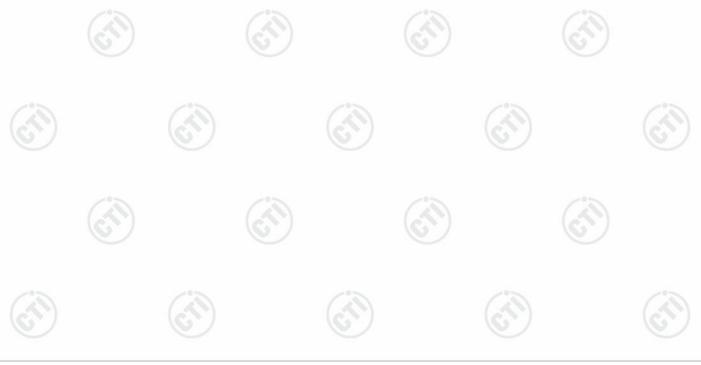


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(2)		1		(2)	_	12	\
Operation F	requency eac	h of channe	: 	(6,5))	(6,2))
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	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





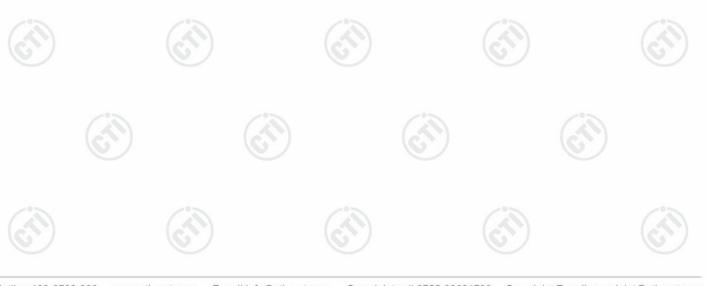
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5.3 Test Configuration

EUT Test Software	Settings:			
Software:	PhyPlusKit		-0-	-5%
EUT Power Grade:	Class2 (Po selected)	wer level is built-in	set parameters and c	cannot be changed and
Use test software to transmitting of the E	set the lowest frequency UT.	y, the middle freque	ncy and the highest t	frequency 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
Mode d	GFSK	2Mbps	CH0	2402
Mode e	GFSK	2Mbps	CH19	2440
Mode f	GFSK	2Mbps	CH39	2480

5.4 Test Environment

Operating Environment	:					
Radiated Spurious Emi	ssions:					
Temperature:	22~25.0 °C					
Humidity:	50~55 % RH					
Atmospheric Pressure:	1010mbar	6.		6.		(0.)
RF Conducted:						
Temperature:	22~25.0 °C					
Humidity:	50~55 % RH		(3)		(1)	
Atmospheric Pressure:	1010mbar		(67.)		(67)	





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5.5 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	TPN-Q207	FCC&CE	СТІ

5.6 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

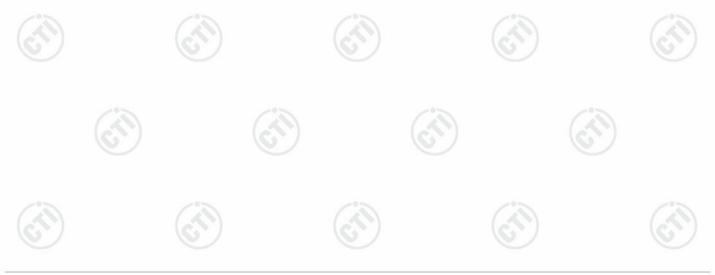
Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

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

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

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

No.	Item	Measurement Uncertainty	
1	Radio Frequency	7.9 x 10 ⁻⁸	
2	PE nower conducted	0.46dB (30MHz-1GHz)	
	RF power, conducted	0.55dB (1GHz-40GHz)	
0		3.3dB (9kHz-30MHz)	
3	Radiated Spurious emission test	4.3dB (30MHz-1GHz)	
3	Nadiated Spurious emission test	4.5dB (1GHz-18GHz)	
		3.4dB (18GHz-40GHz)	
4	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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6 Equipment List

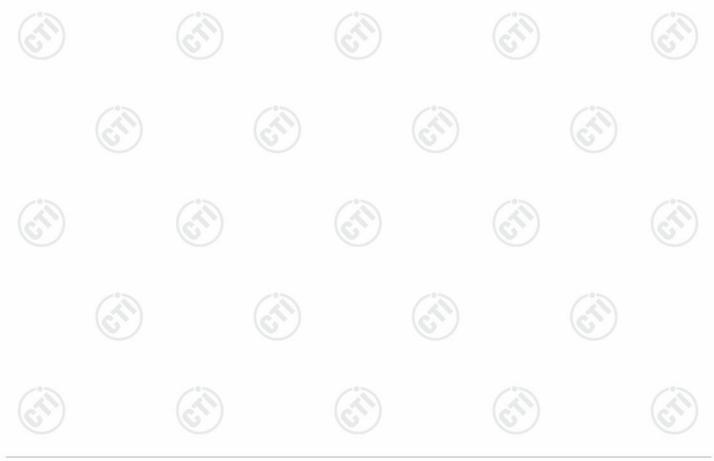
RF test system							
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)		
Communication tset set	R&S	CMW500	107929	06-28-2023	06-27-2024		
Signal Generator	R&S	SMBV100A	1407.6004K02- 262149-CV	09-05-2023	09-04-2024		
Spectrum Analyzer	R&S	FSV40	101200	07-25-2023	07-24-2024		
RF control unit(power unit)	MWRF-test	MW100-RFCB	MW220620CTI-42	06-28-2023	06-27-2024		
high-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	12-19-2022	12-18-2023		
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	06-01-2023	05-31-2024		
BT&WI-FI Automatic test software	MWRF-test	MTS 8310	2.0.0.0				





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	3M Semi-an	echoic Chamber (2)-	Radiated disturb	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
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-618	05/22/2022	05/21/2025
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04/15/2021	04/14/2024
Multi device Controller	maturo	NCD/070/10711112		<u>(1)</u> _	(
Horn Antenna	ETS-LINGREN	BBHA 9120D	9120D-1869	04/15/2021	04/14/2024
Microwave Preamplifier	Agilent	8449B	3008A02425	06/20/2023	06/19/2024
Test software	Fara	EZ-EMC	EMEC-3A1-Pre		V





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				/	100
		3M full-anechoi	c Chamber		
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
RSE Automatic test software	JS Tonscend	JS36-RSE	10166		6
Receiver	Keysight	N9038A	MY57290136	02-27-2023	02-26-2024
Spectrum Analyzer	Keysight	N9020B	MY57111112	02-21-2023	02-20-2024
Spectrum Analyzer TRILOG	Keysight	N9030B	MY57140871	02-21-2023	02-20-2024
Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-28-2021	04-27-2024
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-15-2021	04-14-2024
Horn Antenna	ETS-LINDGREN	3117	57407	07-04-2021	07-03-2024
Preamplifier	EMCI	EMC184055SE	980597	04-13-2023	04-12-2024
Preamplifier	EMCI	EMC001330	980563	03-28-2023	03-27-2024
Preamplifier	JS Tonscend	TAP-011858	AP21B806112	07-25-2023	07-24-2024
Communication test set	R&S	CMW500	102898	12-23-2022	12-22-2023
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-11-2023	04-10-2024
Fully Anechoic Chamber	TDK	FAC-3		01-09-2021	01-08-2024
Cable line	Times	SFT205-NMSM-2.50M	394812-0001	(3)
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)	6
Cable line	Times	EMC104-NMNM-1000	SN160710		
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	(<i></i>
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	(A)	- (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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7 Test results and Measurement Data

7.1 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:

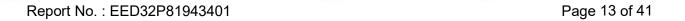
The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output 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 -1.37612dBi.

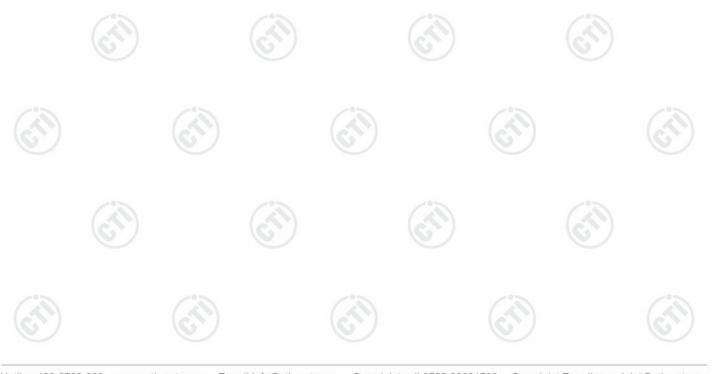






7.2 Maximum Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)	
Test Method:	ANSI C63.10 2013	
Test Setup:		
	Control Congular Power Supply Power Pool Table EUT RF test System 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) Swann time = auto sounds 	
	 d) Sweep time = auto couple. e) Detector = peak. f) Trace mode = max hold. g) Allow trace to fully stabilize. h) Use peak marker function to determine the peak amplitude level. 	
Limit:	30dBm	/ *>
Test Mode:	Refer to clause 5.3	
Test Results:	Refer to Appendix Bluetooth LE	
	Test Method: Test Setup: Test Procedure: Limit: Test Mode:	Test Method: Test Setup: RF test System Instrument 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. e) Detector = peak. f) Trace mode = max hold. g) Allow trace to fully stabilize. h) Use peak marker function to determine the peak amplitude level. Limit: 30dBm Test Mode: Refer to clause 5.3

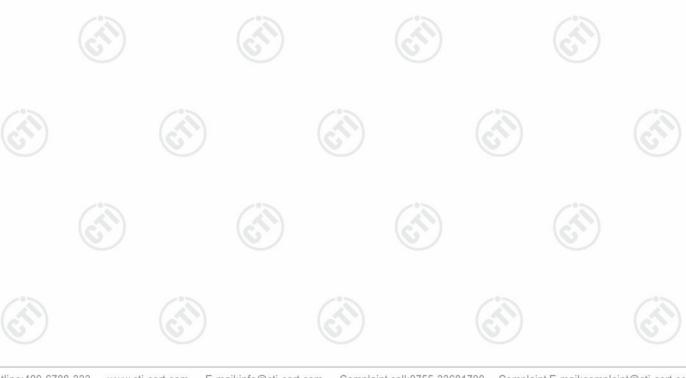




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7.3 DTS Bandwidth

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







7.4 Maximum Power Spectral Density

47 CFR Part 15C Section 15.247 (e)
ANSI C63.10 2013
Control Contro
Remark: Offset=Cable loss+ attenuation factor.
a) Set analyzer center frequency to DTS channel center frequency. 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 maximum amplitude level within the RBW. j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.
≤8.00dBm/3kHz
Refer to clause 5.3
Refer to Appendix Bluetooth LE







7.5 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 Control Control Power Power Poort Table RF test System Instrument
0.1		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

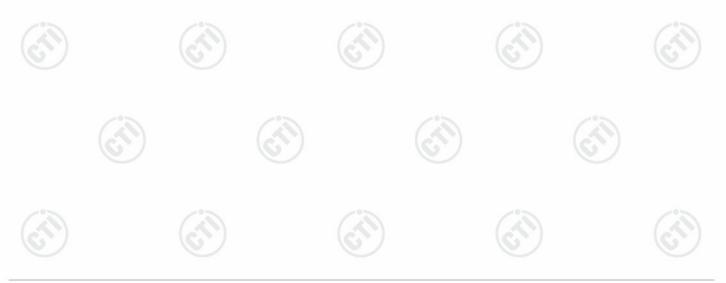






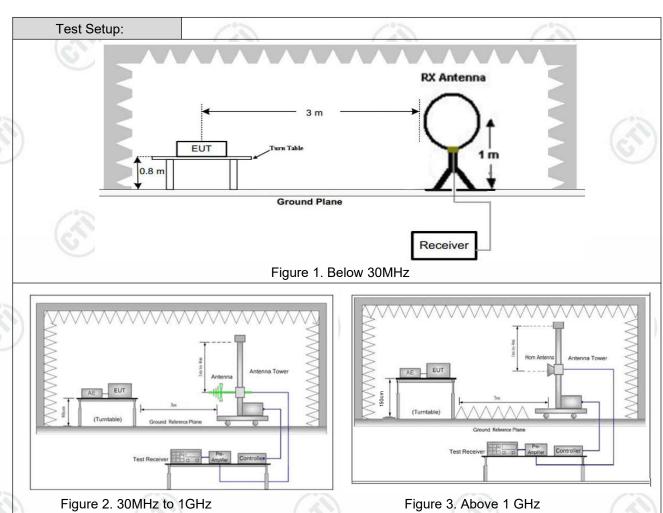
7.6 Radiated Spurious Emission & Restricted bands

16.7	165		183		163	, , , , , , , , , , , , , , , , , , , ,					
Test Requirement:	47 CFR Part 15C Secti	on 1	5.209 and 15	.205							
Test Method:	ANSI C63.10 2013										
Test Site:	Measurement Distance	Measurement Distance: 3m (Semi-Anechoic Chamber)									
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark						
	0.009MHz-0.090MH	z	Peak	10kHz	30kHz	Peak					
	0.009MHz-0.090MH	z	Average	10kHz	30kHz	Average					
	0.090MHz-0.110MH	z	Quasi-peak	10kHz	30kHz	Quasi-peak					
	0.110MHz-0.490MH	z	Peak	10kHz	30kHz	Peak					
	0.110MHz-0.490MH	z	Average	10kHz	30kHz	Average					
	0.490MHz -30MHz		Quasi-peak	10kHz	30kHz	Quasi-peak					
	30MHz-1GHz		Quasi-peak	100 kH	z 300kHz	Quasi-peak					
	Al 4011-		Peak	Peak 1MHz		Peak					
	Above 1GHz	Peak	1MHz	10kHz	Average						
Limit:	Frequency		eld strength crovolt/meter)	Limit (dBuV/m)	Remark	Measuremen distance (m					
	0.009MHz-0.490MHz	2	400/F(kHz)	-	-/0>	300					
	0.490MHz-1.705MHz	24	1000/F(kHz)	-	(A)	30					
	1.705MHz-30MHz		30	-	-	30					
	30MHz-88MHz		100	40.0	Quasi-peak	3					
	88MHz-216MHz		150	43.5	Quasi-peak	3					
	216MHz-960MHz	6	200	46.0	Quasi-peak	3					
	960MHz-1GHz		500	54.0	Quasi-peak	3					
	Above 1GHz		500	54.0	Average	3					
	Note: 15.35(b), frequency emissions is limit applicable to the epeak emission level race	IB above the i	maximum est. This p	permitted ave	erage emission						













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Test Procedure:	meters above the		top of a rotating table 0.8 mi-anechoic camber. The table position of the highest
	2) Above 1G: The meters above the was rotated 360 or radiation.		
	Place the measure determined to be distance, while keep of emissions at each oriented for maxito be higher or lothe emission and maximum signal.	rement antenna away from a source of emissions a seeping the measurement ach frequency of significant mum response. The measure than the EUT, dependant the emissions. The measurement the emissions. The measurement	om each area of the EUT It the specified measurement antenna aimed at the source ant emissions, with polarization asurement antenna may have ading on the radiation pattern of aission source for receiving the antenna elevation shall be that asurement antenna elevation at to a range of heights of from
		the ground or reference	
		t 3 meters away from the vas mounted on the top o	interference-receiving of a variable-height antenna
	ground to determ	ine the maximum value	eter to four meters above the of the field strength. Both antenna are set to make the
	and then the ante the test frequency meter) and the ro	enna was tuned to height	as arranged to its worst case is from 1 meter to 4 meters (for ntenna was tuned to heights 1 from 0 degrees to 360
		system was set to Peak laximum Hold Mode.	Detect Function and Specified
	f. If the emission le limit specified, the EUT would be re margin would be	vel of the EUT in peak m en testing could be stopp	
		he lowest channel (2402 lighest channel (2480MH	MHz),the middle channel
	h. The radiation me	asurements are perform	ed in X, Y, Z axis positioning xis positioning which it is the
	i. Repeat above pro	ocedures until all frequer	ncies measured was complete.
Test Mode:	Refer to clause 5.3	(6,7,)	
Test Results:	Pass		











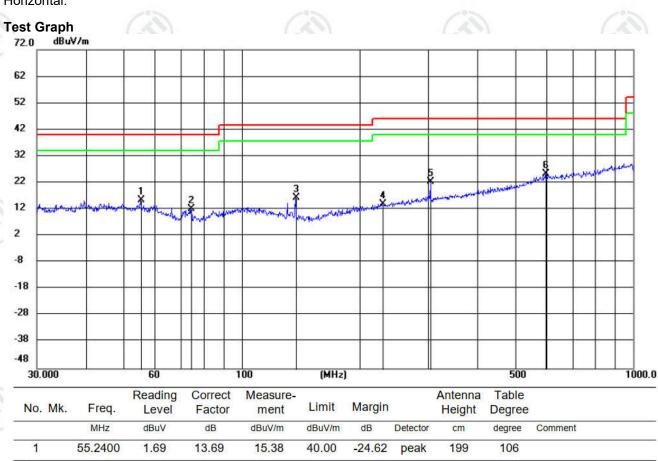


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Radiated Spurious Emission below 1GHz:

During the test, the Radiated Spurious Emission from 30MHz to 1GHz was performed in all modes, only the worst case lowest channel for GFSK 1M was recorded in the report.

Horizontal:



No.	Mk.	Freq.	Level	Factor	ment	Limit	Margin		Height	Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		55.2400	1.69	13.69	15.38	40.00	-24.62	peak	199	106	
2		74.1741	2.34	9.75	12.09	40.00	-27.91	peak	100	252	
3		137.5166	6.72	9.63	16.35	43.50	-27.15	peak	199	352	
4	9	228.8512	0.07	13.89	13.96	46.00	-32.04	peak	199	13	
5	ŀ	304.1830	5.76	16.65	22.41	46.00	-23.59	peak	100	360	
6	*	597.3281	1.92	23.45	25.37	46.00	-20.63	peak	199	352	















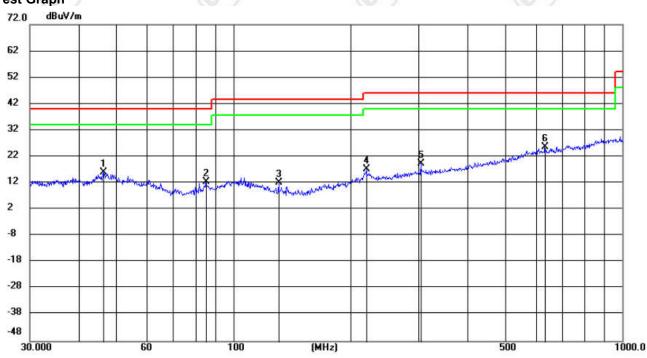








Vertical:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		46.4867	2.05	14.15	16.20	40.00	-23.80	peak	100	208	
2		85.2084	1.86	10.59	12.45	40.00	-27.55	peak	100	116	
3		131.2505	2.44	9.76	12.20	43.50	-31.30	peak	100	352	
4		219.9220	3.67	13.56	17.23	46.00	-28.77	peak	100	352	
5		304.1830	2.64	16.65	19.29	46.00	-26.71	peak	200	200	
6	*	631.7990	1.83	23.71	25.54	46.00	-20.46	peak	200	7	































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Radiated Spurious Emission above 1GHz:

During the test, the Radiated Spurious Emission from above 1GHz was performed in all modes, only the worst case BLE 1M was recorded in the report.

Mod	e:		BLE GFSK Tra	nsmitting		Channel:		2402 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1201.0201	0.80	39.71	40.51	74.00	33.49	Pass	Н	PK
2	1949.895	4.29	37.08	41.37	74.00	32.63	Pass	Н	PK
3	3441.0294	-20.12	50.91	30.79	74.00	43.21	Pass	Н	PK
4	4804.1203	-16.23	57.50	41.27	74.00	32.73	Pass	Н	PK
5	9699.4466	-7.71	46.72	39.01	74.00	34.99	Pass	Н	PK
6	14309.754	-0.28	45.82	45.54	74.00	28.46	Pass	Н	PK
7	1239.824	0.90	38.48	39.38	74.00	34.62	Pass	V	PK
8	1993.0993	4.51	41.05	45.56	74.00	28.44	Pass	V	PK
9	3330.022	-19.92	57.69	37.77	74.00	36.23	Pass	V	PK
10	4804.1203	-16.23	55.74	39.51	74.00	34.49	Pass	V	PK
11	6653.2436	-12.64	60.40	47.76	74.00	26.24	Pass	V	PK
12	13747.7165	-1.70	47.13	45.43	74.00	28.57	Pass	V	PK

Mode	:		BLE GFSK Tra	nsmitting		Channel:		2440 MHz	2440 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
1	1391.0391	1.36	38.40	39.76	74.00	34.24	Pass	Н	PK	
2	2016.9017	4.60	37.31	41.91	74.00	32.09	Pass	Н	PK	
3	3826.0551	-19.20	50.63	31.43	74.00	42.57	Pass	Н	PK	
4	4880.1253	-16.21	55.73	39.52	74.00	34.48	Pass	Н	PK	
5	7499.3	-11.09	48.92	37.83	74.00	36.17	Pass	Н	PK	
6	13722.7148	-1.74	46.73	44.99	74.00	29.01	Pass	Н	PK	
7	1852.6853	3.68	37.69	41.37	74.00	32.63	Pass	V	PK	
8	1996.0996	4.53	41.51	46.04	74.00	27.96	Pass	V	PK	
9	3486.0324	-20.05	54.65	34.60	74.00	39.40	Pass	V	PK	
10	5309.1539	-14.78	54.56	39.78	74.00	34.22	Pass	V	PK	
11	5992.1995	-13.01	57.28	44.27	74.00	29.73	Pass	V	PK	
12	6654.2436	-12.64	57.20	44.56	74.00	29.44	Pass	V	PK	













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	20%			700				-	0		
١	Mode	:		BLE GFSK Tra	nsmitting		Channel:		2480 MHz	<u> </u>	
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
_	1	1187.4187	0.81	39.07	39.88	74.00	34.12	Pass	Н	PK	
3	2	2031.3031	4.65	37.27	41.92	74.00	32.08	Pass	Н	PK	
	3	3320.0213	-19.88	50.68	30.80	74.00	43.20	Pass	Н	PK	
	4	4959.1306	-15.98	55.27	39.29	74.00	34.71	Pass	Н	PK	
	5	9242.4162	-7.91	47.74	39.83	74.00	34.17	Pass	Н	PK	
	6	16288.8859	1.64	45.67	47.31	74.00	26.69	Pass	Н	PK	
	7	1277.8278	1.00	38.58	39.58	74.00	34.42	Pass	V	PK	
	8	1991.4992	4.50	41.06	45.56	74.00	28.44	Pass	V	PK	
	9	3331.0221	-19.93	57.65	37.72	74.00	36.28	Pass	V	PK	
	10	3993.0662	-18.91	58.78	39.87	74.00	34.13	Pass	V	PK	
3	11	5318.1545	-14.76	53.00	38.24	74.00	35.76	Pass	V	PK	
V	12	6663.2442	-12.60	58.90	46.30	74.00	27.70	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.

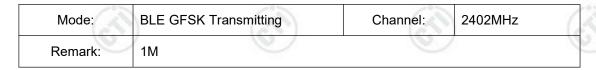


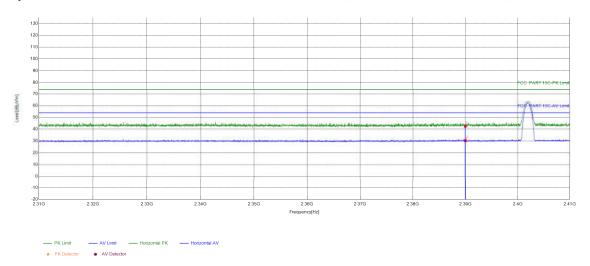




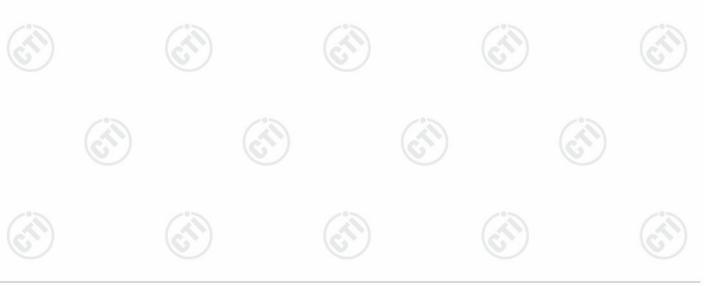
Restricted bands:

Test plot as follows:





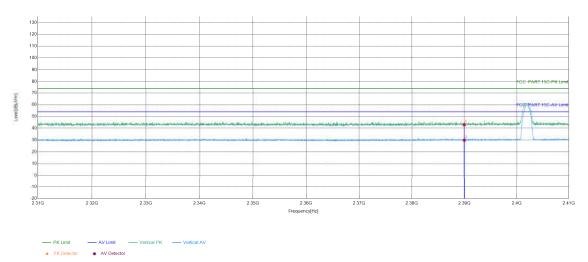
	Suspecte	d List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2390	5.77	36.72	42.49	74.00	31.51	PASS	Horizontal	PK
Ī	2	2390	5.77	24.57	30.34	54.00	23.66	PASS	Horizontal	AV







Mode:	BLE GFSK Transmitting	Channel:	2402MHz
Remark:	1M		



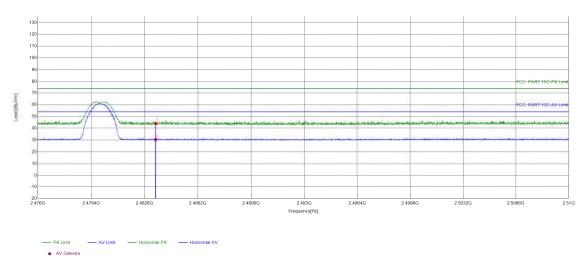
	Suspecte	d List								
-	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2390	5.77	37.19	42.96	74.00	31.04	PASS	Vertical	PK
	2	2390	5.77	24.03	29.80	54.00	24.20	PASS	Vertical	AV







Mode:	BLE GFSK Transmitting	Channel:	2480MHz
Remark:	1M		



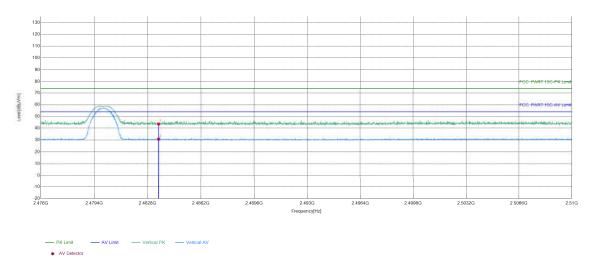
	Suspecte	d List								
-	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2483.5	6.57	37.51	44.08	74.00	29.92	PASS	Horizontal	PK
	2	2483.5	6.57	23.83	30.40	54.00	23.60	PASS	Horizontal	AV



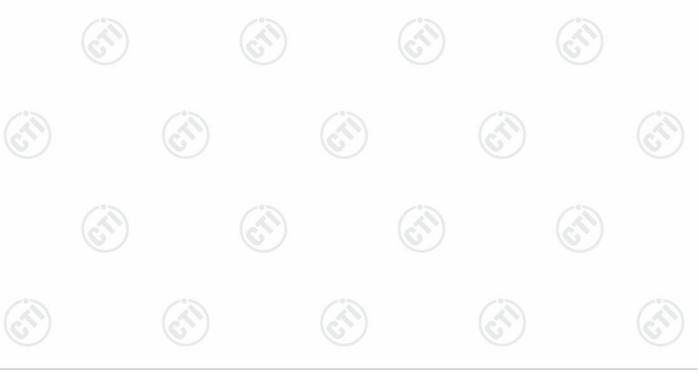




Mode:	BLE GFSK Transmitting	Channel:	2480MHz
Remark:	1M		



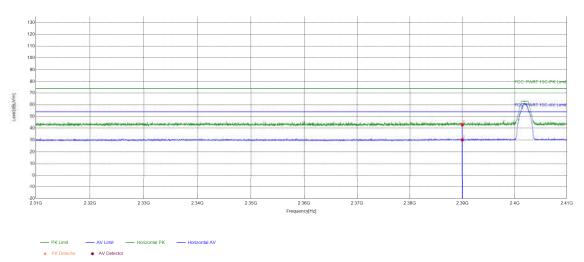
				(E) (E)					
Suspecte	d List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	6.57	37.01	43.58	74.00	30.42	PASS	Vertical	PK
2	2483.5	6.57	24.24	30.81	54.00	23.19	PASS	Vertical	AV







Mode:	BLE GFSK Transmitting	Channel:	2402MHz
Remark:	2M		



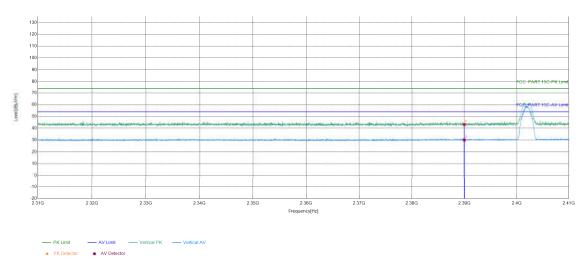
	Suspecte	d List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
3	1	2390	5.77	37.10	42.87	74.00	31.13	PASS	Horizontal	PK
	2	2390	5.77	24.39	30.16	54.00	23.84	PASS	Horizontal	AV





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Mode:	BLE GFSK Transmitting	Channel:	2402MHz
Remark:	2M		



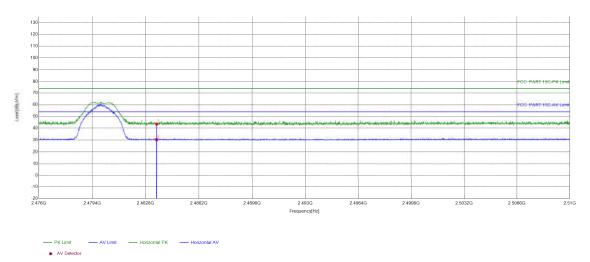
Suspecte	d List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	5.77	37.44	43.21	74.00	30.79	PASS	Vertical	PK
2	2390	5.77	24.25	30.02	54.00	23.98	PASS	Vertical	AV



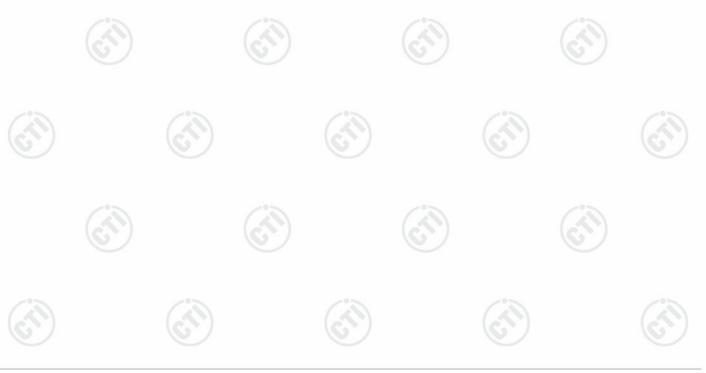


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Mode:	BLE GFSK Transmitting	Channel:	2480MHz		
Remark:	2M				



Suspected List										
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
3	1	2483.5	6.57	37.00	43.57	74.00	30.43	PASS	Horizontal	PK
	2	2483.5	6.57	23.72	30.29	54.00	23.71	PASS	Horizontal	AV

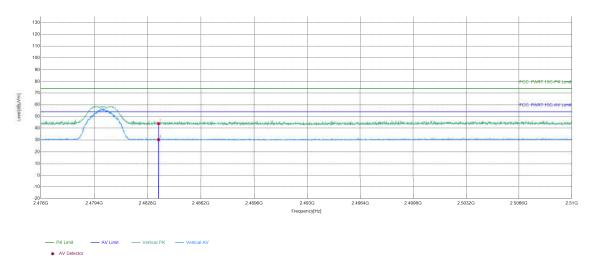




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Mode:	BLE GFSK Transmitting	Channel:	2480MHz	
Remark:	2M			

Test Graph



	Suspected List									
-	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2483.5	6.57	37.44	44.01	74.00	29.99	PASS	Vertical	PK
	2	2483.5	6.57	23.76	30.33	54.00	23.67	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 EED32P81943401.

















































































