

Product

Test result



TEST REPORT

- : Sleep Dot Mini Sleep Tracker
- Trade mark Model/Type reference Serial Number Report Number FCC ID Date of Issue Test Standards
- : N/A
- : B502T
- : N/A
- : EED32P80442201
- : 2ADIOB502T
- Apr. 20, 2023
- 47 CFR Part 15 Subpart C

Prepared for:

PASS

Shenzhen Medica Technology Development Co., Ltd Floor 12,Block A,Building 7,Vanke Yun city,XingKe one street, NanShan District,Shenzhen City

Prepared by:

Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China TEL: +86-755-3368 3668 FAX: +86-755-3368 3385

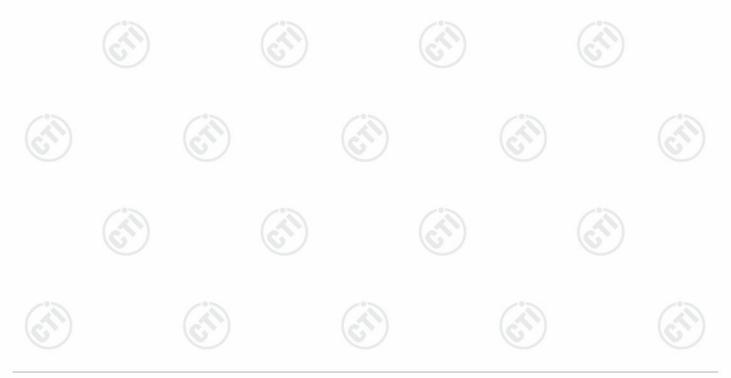
Compiled by:	Mark Chen	Reviewed by: Date:	Tom Chen Apr. 20, 2023	
Approved by: "Go CTI Report Seal	Aaron Ma		Check No.: 8438	211222
(T)				





Page 2 of 36

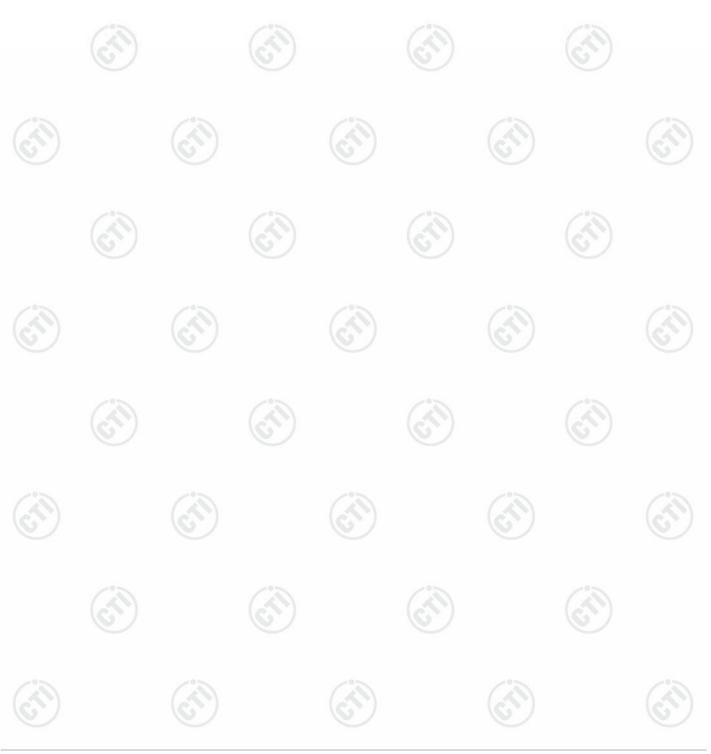
1 COVER PAGE			
2 CONTENT			
3 VERSION		<u> </u>	
4 TEST SUMMARY			
5 GENERAL INFORMATION			
5.1 CLIENT INFORMATION			
5.2 GENERAL DESCRIPTION OF EU			
5.3 TEST CONFIGURATION			
5.4 TEST ENVIRONMENT			
5.5 DESCRIPTION OF SUPPORT UN			
5.6 TEST LOCATION 5.7 MEASUREMENT UNCERTAINTY			
6 EQUIPMENT LIST	-01	-0-	
7 TEST RESULTS AND MEASURE	EMENT DATA		
7.1 ANTENNA REQUIREMENT			
7.2 MAXIMUM CONDUCTED OUTPU			
7.3 DTS BANDWIDTH			
7.4 MAXIMUM POWER SPECTRAL			
7.5 BAND EDGE MEASUREMENTS A			
7.6 RADIATED SPURIOUS EMISSION	N & RESTRICTED BANDS		
8 APPENDIX BLE			
	JP		





3 Version

	Version No.	Date	6	Description	9
	00	Apr. 20, 2023		Original	
-	1	1	10	20	12
S	(6	57)	(c ¹)	(25)	(6)





4 Test Summary



Page 4 of 36

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:

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:	Shenzhen Medica Technology Development Co., Ltd
Address of Applicant:	Floor 12,Block A,Building 7,Vanke Yun city,XingKe one street,NanShan District,Shenzhen City
Manufacturer:	Shenzhen Medica Technology Development Co., Ltd
Address of Manufacturer:	Floor 12,Block A,Building 7,Vanke Yun city,XingKe one street,NanShan District,Shenzhen City
Factory:	Shenzhen Medica Technology Development Co., Ltd
Address of Factory:	Floor 12,Block A,Building 7,Vanke Yun city,XingKe one street,NanShan District,Shenzhen City

5.2 General Description of EUT

-		
Product Name:	Sleep Dot Mini Sleep Tracker	
Model No.:	B502T	
Trade mark:	N/A	2
Product Type:	Mobile Portable Fix Location	9
Test software of EUT:	nRFgo Studio	
Operation Frequency:	2402MHz~2480MHz	
Modulation Type:	GFSK	
Transfer Rate:	1Mbps	
Number of Channel:	40	
Antenna Type:	Ceramic Antenna	
Antenna Gain:	2.5 dBi	3
Power Supply:	Battery DC 3.0V	S)
Test Voltage:	DC 3.0V	
Sample Received Date:	Mar. 31, 2023	
Sample tested Date:	Mar. 31, 2023 to Apr. 10, 2023	



Page 5 of 36



Page 6 of 36

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

Note:

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

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











5.3 Test Configuration

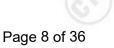
EUT Test Software	Settings:					
Software:	nRFgo Stu	nRFgo Studio				
EUT Power Grade:	Class2 (Po selected)	wer level is built-in s	set parameters and c	annot be changed and		
Use test software to transmitting of the E	set the lowest frequenc UT.	y, the middle freque	ncy and the highest f	frequency keep		
Test Mode	Modulation	Rate	Channel	Frequency(MHz)		
Mode a	GFSK	1Mbps	СН0	2402		
Mode b	GFSK	1Mbps	СН19	2440		
Mode c	GFSK	1Mbps	CH39	2480		

5.4 Test Environment

Op	Operating Environment:						
Ra	Radiated Spurious Emissions:						
Те	mperature:	22~25.0 °C					
Hu	midity:	50~55 % RH	(CT)	67)			
Atr	mospheric Pressure:	1010mbar					
RF	Conducted:						
Те	mperature:	22~25.0 °C	· /		1		
Hu	midity:	50~55 % RH	°) (a	S)	(\mathcal{C})		
Atr	mospheric Pressure:	1010mbar		J	U		







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
Notebook	DELL	DELL 3490	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)
Z	RF power, conducted	0.55dB (1GHz-40GHz)
		3.3dB (9kHz-30MHz)
3	Radiated Spurious emission test	4.3dB (30MHz-1GHz)
3	Radiated 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%
57	DC power voltages	0.026%















6 Equipment List

software

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	07-06-2022	07-05-2023						
Signal Generator	R&S	SMBV100A	1407.6004K02- 262149-CV	09-09-2022	09-08-2023						
Spectrum Analyzer	R&S	FSV40	101200	08-01-2022	07-31-2023						
RF control unit(power unit)	MWRF-test	MW100-RFCB	MW220620CTI-42	07-06-2022	07-05-2023						
high-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	12-19-2022	12-18-2023						
Temperature/ Humidity Indicator	biaozhi	НМ10	1804186	06-16-2022	06-15-2023						
BT&WI-FI Automatic test	MWRF-test	MTS 8310	2.0.0.0	(1)	(2						

	3M Semi-an	echoic Chamber (2)	- Radiated distu	rbance 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	09-28-2022	09-27-2023	
TRILOG Broadband schwa Antenna	schwarzbeck	VULB 9163	9163-618	9163-618 05-22-2022		
Multi device Controller	maturo	NCD/070/10711112				
Horn Antenna	ETS-LINGREN	BBHA 9120D	9120D-1869	04-15-2021	04-14-2024	
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04-17-2021	04-16-2024	
Microwave Preamplifier	Agilent	8449B	3008A02425	06-20-2022	06-19-2023	

Page 9 of 36





Page 10 of 36

		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	(d)		
Receiver	Keysight	N9038A	MY57290136	02-27-2023	02-26-2024	
Spectrum Analyzer	Keysight	N9020B	MY57111112	02-21-2023	02-20-2024	
Spectrum Analyzer	Keysight	N9030B	MY57140871	02-21-2023	02-20-2024	
TRILOG 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	04-20-2022	04-19-2023	
Preamplifier	EMCI	EMC001330	980563	04-13-2022	04-12-2023	
Preamplifier	JS Tonscend	TAP-011858	AP21B806112	07-29-2022	07-28-2023	
Communication test set	R&S	CMW500	102898	12-23-2022	12-22-2023	
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-11-2022	04-10-2023	
Fully Anechoic Chamber	TDK	FAC-3		01-09-2021	01-08-2024	
Cable line	Times	SFT205-NMSM-2.50M	394812-0001	(D	
Cable line	Times	SFT205-NMSM-2.50M	394812-0002			
Cable line	Times	SFT205-NMSM-2.50M	394812-0003		- 0	
Cable line	Times	SFT205-NMSM-2.50M	393495-0001	(\bigcirc)		
Cable line	Times	EMC104-NMNM-1000	SN160710			
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	(<u>a -</u>	
Cable line	Times	SFT205-NMNM-1.50M	381964-0001		9	
Cable line	Times	SFT205-NMSM-7.00M	394815-0001			
Cable line	Times	HF160-KMKM-3.00M	393493-0001		- 0	
)	(67)	(5)	lu -	$\langle \mathbf{C}^{*} \rangle$	G	



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 Ceramic antenna. The best case gain of the antenna is 2.5 dBi.

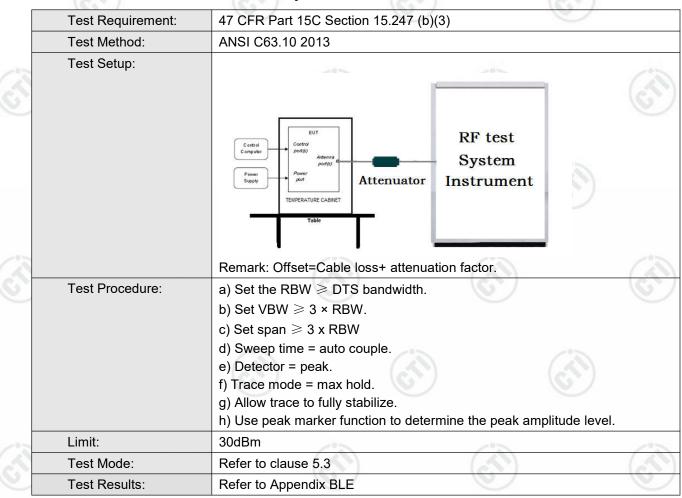






Page 12 of 36

7.2 Maximum Conducted Output Power







Page 13 of 36

7.3 DTS Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)						
Test Method:	ANSI C63.10 2013						
Test Setup:							
	Control Congruent Potware Supply Table RF test 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 BLE						



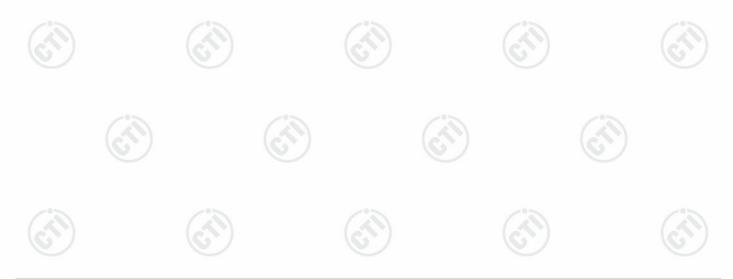




Page 14 of 36

7.4 Maximum Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 2013
Test Setup:	
	Control Control Control Control Control Control Power port Supply TemPERATURE CABINET Table
	Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	 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.
Limit:	≤8.00dBm/3kHz
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix BLE

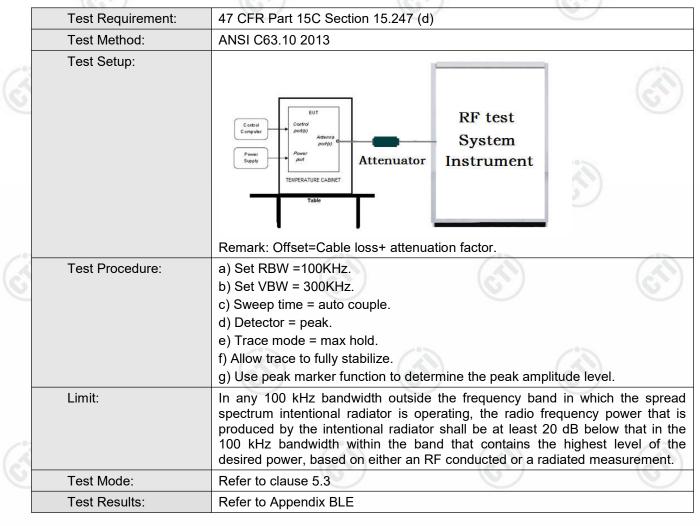






Page 15 of 36

7.5 Band Edge measurements and Conducted Spurious Emission









Page 16 of 36

7.6 Radiated Spurious Emission & Restricted bands

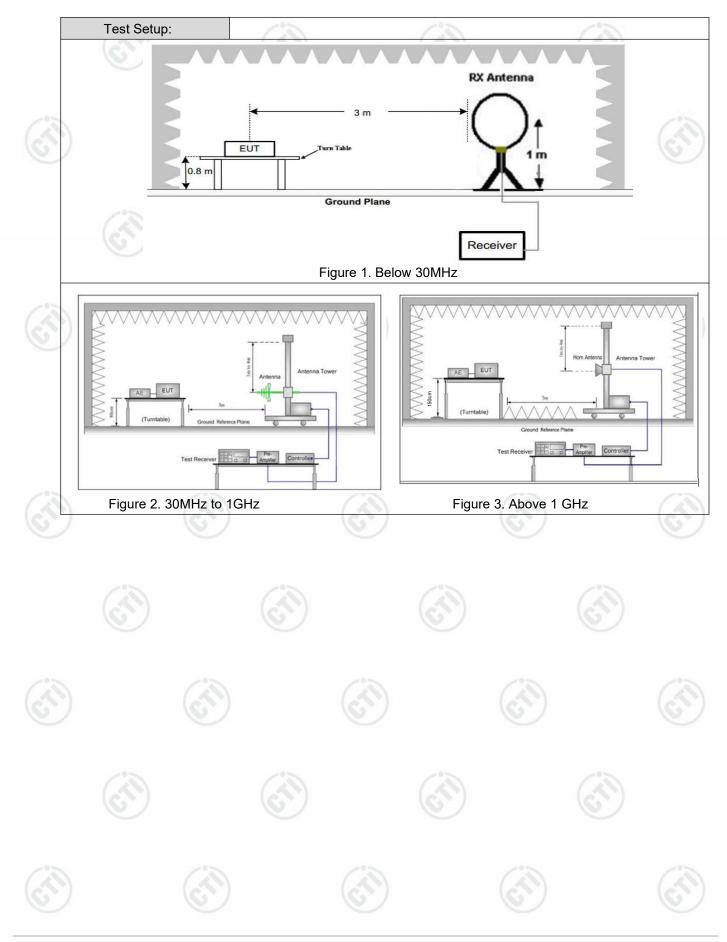
	Test Requirement:	47 CFR Part 15C Secti	on 1	5.209 and 15	.205		C	
	Test Method:	ANSI C63.10 2013						
-	Test Site:	Measurement Distance	: 3n	n (Semi-Anech	noic Cham	be	r)	- 22
	Receiver Setup:	Frequency	2	Detector	RBW	VBW		Remark
<u>S</u>		0.009MHz-0.090MH	z	Peak	10kHz	2	30kHz	Peak
		0.009MHz-0.090MH	z	Average	10kHz	z	30kHz	Average
		0.090MHz-0.110MH	z	Quasi-peak	10kHz	z	30kHz	Quasi-peak
		0.110MHz-0.490MH	z	Peak	10kHz	z	30kHz	Peak
		0.110MHz-0.490MH	z	Average	10kHz	z	30kHz	Average
		0.490MHz -30MHz		Quasi-peak	10kHz	z	30kHz	Quasi-peak
		30MHz-1GHz		Quasi-peak	100 kH	lz	300kHz	Quasi-peak
13		Above 1GHz		Peak	1MHz		3MHz	Peak
6		Above 1GHz		Peak	1MHz)	10kHz	Average
	Limit:	Frequency		eld strength crovolt/meter)	Limit (dBuV/m)		Remark	Measuremer distance (m
		0.009MHz-0.490MHz	2	400/F(kHz)	-	- / >		300
		0.490MHz-1.705MHz	24	4000/F(kHz)	-			30
		1.705MHz-30MHz		30	-		<u>e</u>	30
		30MHz-88MHz		100	40.0	Quasi-peak		3
		88MHz-216MHz		150	43.5	Quasi-peak		3
		216MHz-960MHz	9	200	46.0	G	uasi-peak	3
<u>e</u>		960MHz-1GHz)	500	54.0	G	uasi-peak	3
		Above 1GHz		500	54.0		Average	3
		frequency emissions is limit applicable to the e	Note: 15.35(b), Unless otherwise specified, the limit on peak r frequency emissions is 20dB above the maximum permitted average emis limit applicable to the equipment under test. This peak limit applies to the peak emission level radiated by the device.					







Page 17 of 36



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





Test Procedure:	 a. 1) Below 1G: The EUT was placed on the top of a rotating table meters above the ground at a 3 meter semi-anechoic camber. T was rotated 360 degrees to determine the position of the highes radiation. 2) Above 1G: The EUT was placed on the top of a rotating table meters above the ground at a 3 meter semi-anechoic camber. T was rotated 360 degrees to determine the position of the highes radiation. Note: For the radiated emission test above 1GHz: Place the measurement antenna away from each area of the EU 	The table t 1.5 The table t
	determined to be a source of emissions at the specified measure distance, while keeping the measurement antenna aimed at the of emissions at each frequency of significant emissions, with pol oriented for maximum response. The measurement antenna ma to be higher or lower than the EUT, depending on the radiation p the emission and staying aimed at the emission source for recei- maximum signal. The final measurement antenna elevation shal which maximizes the emissions. The measurement antenna elev- for maximum emissions shall be restricted to a range of heights 1 m to 4 m above the ground or reference ground plane.	ement source larization by have battern of ving the ll be that vation of from
	 b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antertower. c. The antenna height is varied from one meter to four meters above ground to determine the maximum value of the field strength. Bo horizontal and vertical polarizations of the antenna are set to ma measurement. 	enna ve the oth
	 d. For each suspected emission, the EUT was arranged to its wors and then the antenna was tuned to heights from 1 meter to 4 methe test frequency of below 30MHz, the antenna was tuned to he meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and S 	eters (for eights 1)
	 Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower th limit specified, then testing could be stopped and the peak value EUT would be reported. Otherwise the emissions that did not ha margin would be re-tested one by one using peak, quasi-peak of average method as specified and then reported in a data sheet. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz) 	es of the ave 10dB r
	 h. The radiation measurements are performed in X, Y, Z axis positi for Transmitting mode, and found the X axis positioning which it worst case. i. Repeat above procedures until all frequencies measured was contracted was	is the
Test Mode:	Refer to clause 5.3	<u> </u>
Test Results:	Pass	







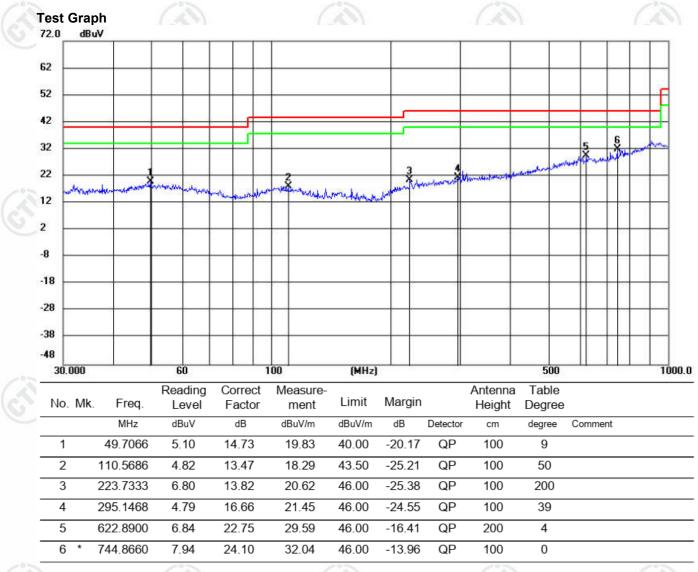


Page 19 of 36

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 was recorded in the report.

Horizontal:



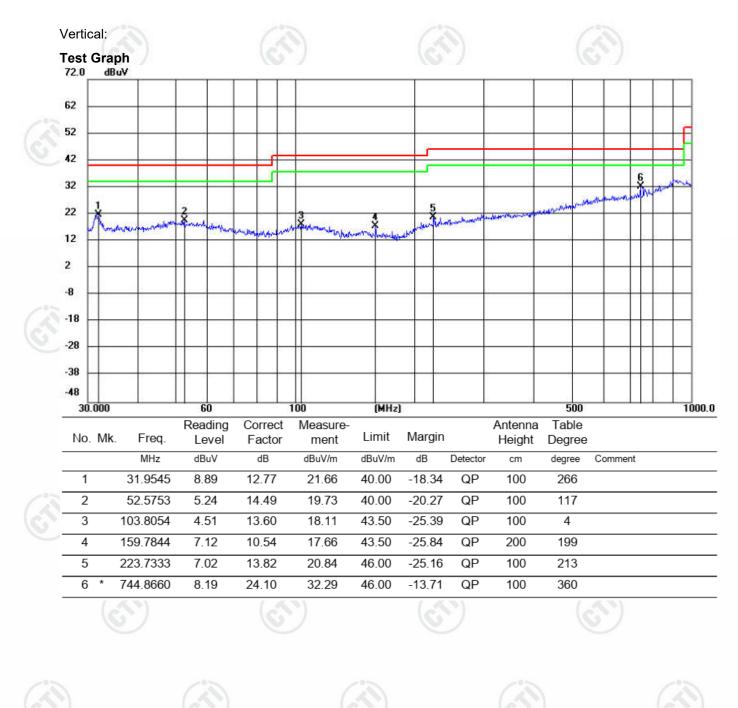
























Radiated Spurious Emission above 1GHz:

	Mode	:		BLE GFSK Tra	ansmitting		Channel:		2402 MHz	Z
2	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
3	1	1027.2027	0.93	40.24	41.17	74.00	32.83	Pass	Н	PK
_	2	1655.0655	2.64	38.87	41.51	74.00	32.49	Pass	Н	PK
	3	3328.0219	-19.91	56.08	36.17	74.00	37.83	Pass	Н	PK
	4	4804.1203	-16.23	63.87	47.64	74.00	26.36	Pass	Н	PK
	5	7205.2804	-11.83	52.05	40.22	74.00	33.78	Pass	Н	PK
	6	13742.7162	-1.71	47.93	46.22	74.00	27.78	Pass	Н	PK
	7	1068.4068	0.88	40.27	41.15	74.00	32.85	Pass	V	PK
	8	1745.8746	3.09	38.84	41.93	74.00	32.07	Pass	V	PK
13	9	3199.0133	-20.35	58.12	37.77	74.00	36.23	Pass	V	PK
	10	4803.1202	-16.23	60.28	44.05	74.00	29.95	Pass	V	PK
2	11	7207.2805	-11.83	53.82	41.99	74.00	32.01	Pass	V	PK
	12	12009.6006	-5.30	50.59	45.29	74.00	28.71	Pass	V	PK

					10		105					
Ν	Node	:		BL	LE GFSK Trai	nsmitting		Channel:		2440 MHz	2	
I	NO	Freq. [MHz]	Factor [dB]	r	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
	1	1061.0061	0.89		40.06	40.95	74.00	33.05	Pass	Н	PK	
	2	1958.6959	4.34		38.64	42.98	74.00	31.02	Pass	Н	PK	
	3	3325.0217	-19.90)	55.76	35.86	74.00	38.14	Pass	Н	PK	
	4	4880.1253	-16.21		62.98	46.77	74.00	27.23	Pass	Н	PK	
	5	7198.2799	-11.83	}	51.76	39.93	74.00	34.07	Pass	Н	PK	
	6	16274.885	1.52		46.90	48.42	74.00	25.58	Pass	Н	PK	
	7	1205.6206	0.82		40.43	41.25	74.00	32.75	Pass	V	PK	
	8	1745.2745	3.10		38.65	41.75	74.00	32.25	Pass	V	PK	
	9	3197.0131	-20.36	6	58.42	38.06	74.00	35.94	Pass	V	PK	
	10	4879.1253	-16.21		57.32	41.11	74.00	32.89	Pass	V	PK	
3	11	7319.288	-11.65	5	52.20	40.55	74.00	33.45	Pass	V	PK	
	12	14372.7582	0.77		45.60	46.37	74.00	27.63	Pass	V	PK	
1												



















Page 22 of 36

		100			1000		- C - C - C - C - C - C - C - C - C - C			0	
	Mode:			BL	E GFSK Trai	nsmitting		Channel:		2480 MHz	Z
	NO	Freq. [MHz]	Factor [dB]	r	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1063.8064	0.88		39.99	40.87	74.00	33.13	Pass	н	PK
	2	1570.8571	2.05		39.00	41.05	74.00	32.95	Pass	Н	PK
	3	3395.0263	-20.18	3	57.19	37.01	74.00	36.99	Pass	Н	PK
	4	4961.1307	-15.97	7	59.42	43.45	74.00	30.55	Pass	Н	PK
	5	7439.296	-11.34	ŀ	51.28	39.94	74.00	34.06	Pass	Н	PK
	6	12401.6268	-4.69		49.98	45.29	74.00	28.71	Pass	Н	PK
	7	1097.2097	0.86		39.97	40.83	74.00	33.17	Pass	V	PK
	8	1921.8922	4.14		38.65	42.79	74.00	31.21	Pass	V	PK
	9	3252.0168	-20.06	6	58.69	38.63	74.00	35.37	Pass	V	PK
	10	4959.1306	-15.98	3	54.24	38.26	74.00	35.74	Pass	V	PK
3	11	7401.2934	-11.51		51.69	40.18	74.00	33.82	Pass	V	PK
	12	14330.7554	0.07		45.93	46.00	74.00	28.00	Pass	V	PK
				5							

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:

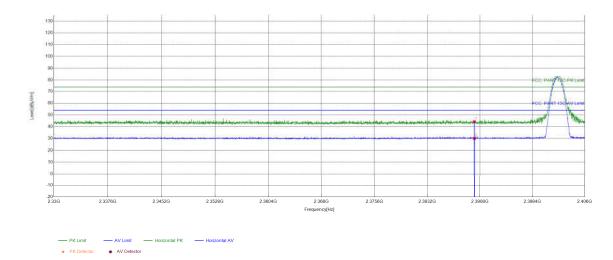




Test plot as follows:

(B)	Mode:	BLE GFSK Transmitting	Channel:	2402MHz
V	Remark:		V	

Test Graph

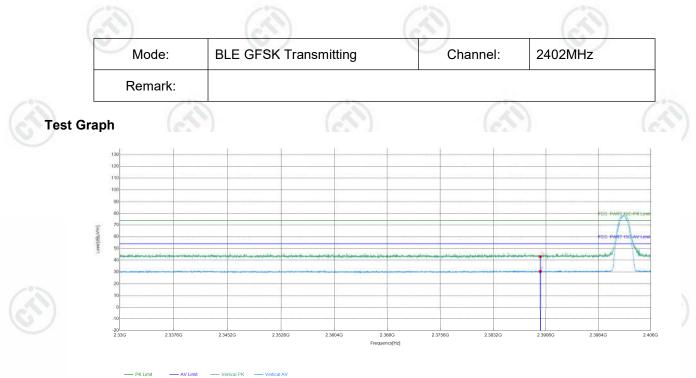


	Suspecte	Suspected List										
6	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark		
	1	2390	5.77	38.48	44.25	74.00	29.75	PASS	Horizontal	PK		
	2	2390	5.77	24.29	30.06	74.00	43.94	PASS	Horizontal	AV		
	6	5)		67)		67)			(r)			





Page 24 of 36



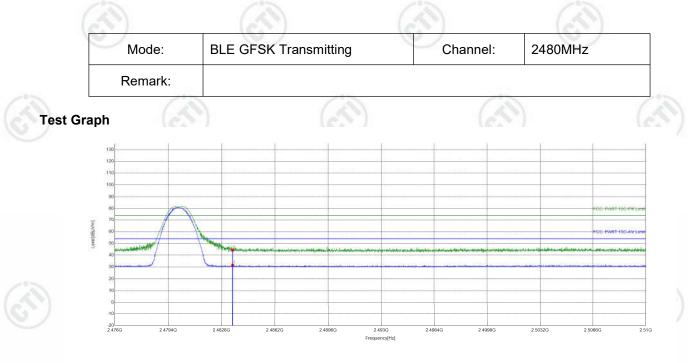
Limit — AV Limit — Vertical PK · Defector • AV Detector

	Suspected List											
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark		
	1	2390	5.77	37.38	43.15	74.00	30.85	PASS	Vertical	PK		
U	2	2390	5.77	24.71	30.48	74.00	43.52	PASS	Vertical	AV		





Page 25 of 36



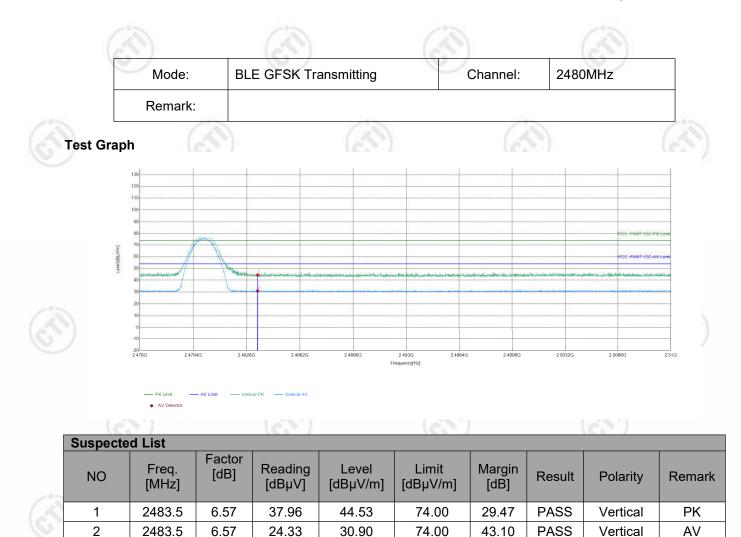
PK Limit AV Limit Horizontal PK Horizontal AV AV Detector

	Suspected List											
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark		
4	1	2483.5	6.57	37.77	44.34	74.00	29.66	PASS	Horizontal	PK		
	2	2483.5	6.57	24.92	31.49	74.00	42.51	PASS	Horizontal	AV		





Page 26 of 36



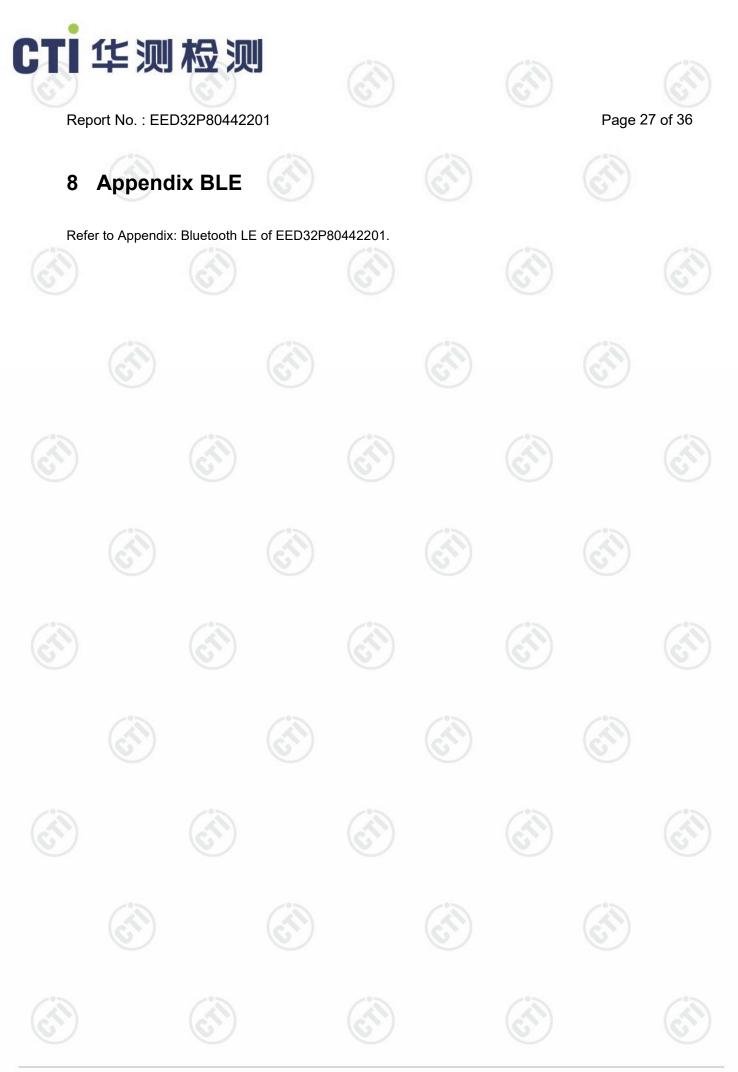
Note:

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

24.33





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