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# TEST REPORT

Product Trade mark Model/Type reference Serial Number Report Number FCC ID Date of Issue **Test Standards** Test result

- Sport Earbuds
- Walker's
- **GWP-DSRPT**
- N/A
- EED32P80349001 2
- : 2AU3A-DSRPT
- Apr. 06, 2023 ÷
- 47 CFR Part 15 Subpart C
- PASS

Prepared for: Good Sportsman Marketing.LLC 5250 Frye Road Irving.TX 75061

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



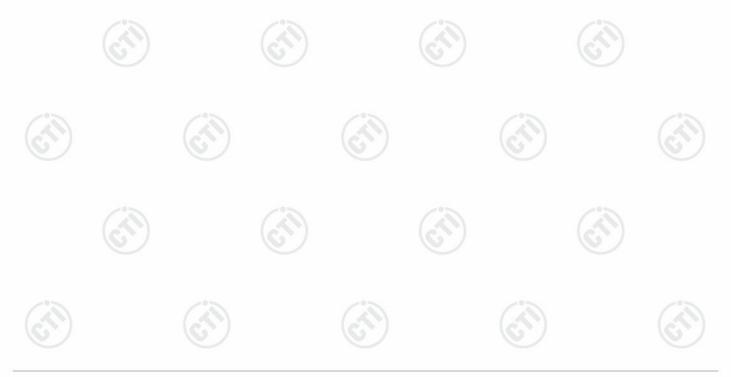






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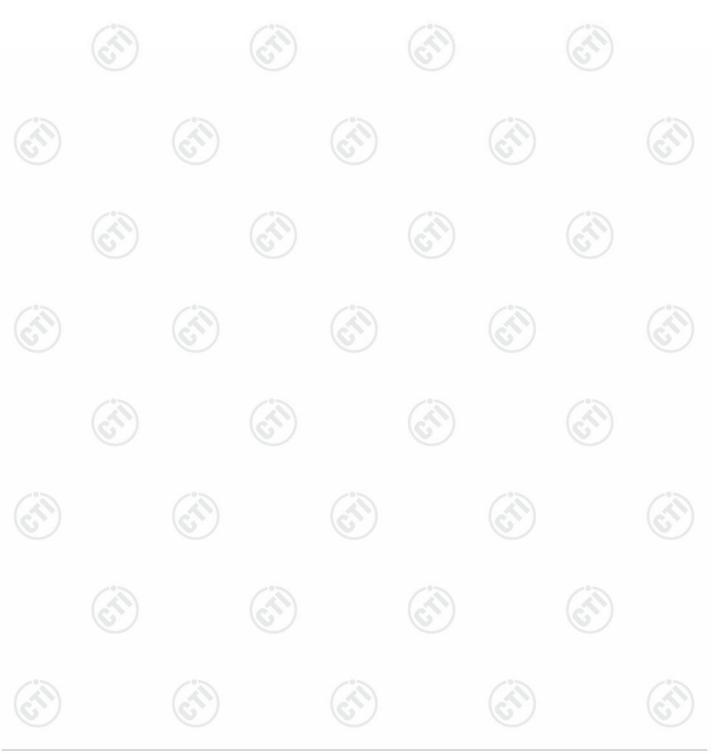
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### **3 Version**

	Version No.	Date	Q	Description	
	00	Apr. 06, 2023		Original	
2	2		1	(°))	100
	(6	S) (a		(25)	(6)





### oct Summary



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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:	Good Sportsman Marketing.LLC	
Address of Applicant:	5250 Frye Road Irving.TX 75061	
Manufacturer:	Good Sportsman Marketing.LLC	12
Address of Manufacturer:	5250 Frye Road Irving.TX 75061	(2)
Factory:	Concord Intelligent Technology (Huizhou) Ltd.	V
Address of Factory:	25, Ping An Rd, Shuikou Street, Hui Cheng District, Huizhou City, Guangdong Province, China	

### 5.2 General Description of EUT

			1 4	
Product Name:	Sport Earbuds			
Model No.:	GWP-DSRPT	$\sim$	$\sim$	
Trade mark:	Walker's			
Product Type:	🗌 Mobile 🛛 Portable	Fix Location		1
Test software of EUT:	AWBTRDLAB	(S)		6
Operation Frequency:	2402MHz~2480MHz			
Modulation Type:	GFSK			
Transfer Rate:	1Mbps, 2Mbps	13	1	
Number of Channel:	40	(25)	$(\mathcal{S})$	
Antenna Type:	LDS Antenna		U	
Antenna Gain:	Left ear : -0.31 dBi Right ear : -0.29 dBi			~15
Power Supply:	DC 3.7V			
Test Voltage:	DC 3.7V	0		(U)
Sample Received Date:	Mar. 15, 2023			
Sample tested Date:	Mar. 15, 2023 to Mar. 21, 2	2023		











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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

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















## 5.3 Test Configuration

EUT Test Softwar	e Settings:			
Software:AWBTRDLAEUT Power Grade:Class2 (Pow selected)		AB	-0-	- 5%
		wer level is built-in s	set parameters and c	annot be changed and
Use test software t transmitting of the	o set the lowest frequency EUT.	v, the middle freque	ncy and the highest f	requency keep
Test Mode	Modulation	Rate	Channel	Frequency(MHz)
Mode a	GFSK	1Mbps	СН0	2402
Mode b	GFSK	1Mbps	CH19	2440
Mode c	GFSK	1Mbps	CH39	2480
Mode d	GFSK	2Mbps	СН0	2402
Mode e	GFSK	2Mbps	CH19	2440
Mode f	GFSK	2Mbps	CH39	2480

### 5.4 Test Environment

10.2	16.21	16.31		16.31	
Operating Environmen	t:				
Radiated Spurious Em	issions:				
Temperature:	22~25.0 °C				
Humidity:	50~55 % RH				
Atmospheric Pressure:	1010mbar		6)		G
RF Conducted:					
Temperature:	22~25.0 °C				
Humidity:	50~55 % RH	(in)			
Atmospheric Pressure:	1010mbar	6		$(\mathcal{O})$	









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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
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 <sup>-8</sup>
2	PE nower conducted	0.46dB (30MHz-1GHz)
2	RF power, conducted	0.55dB (1GHz-40GHz)
		3.3dB (9kHz-30MHz)
2	Radiated Spurious emission test	4.3dB (30MHz-1GHz)
3		4.5dB (1GHz-18GHz)
		3.4dB (18GHz-40GHz)
4		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%



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# 6 Equipment List

	(3)	
		Ī

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 software	MWRF-test	MTS 8310	2.0.0.0	(A)	6	

**RF test system** 

	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 schwarzbeck Antenna		VULB 9163	9163-618	05-22-2022	05-21-2023	
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	

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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	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	04-20-2022	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	(	9	
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	$\odot$		
Cable line	Times	EMC104-NMNM-1000	SN160710			
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	(	<u> </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	( A	()	
Cable line	Times	HF160-KMKM-3.00M	393493-0001			



### 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 LDS antenna. The best case gain of the antenna are Left ear : -0.31 dBi, Right ear : -0.29 dBi.















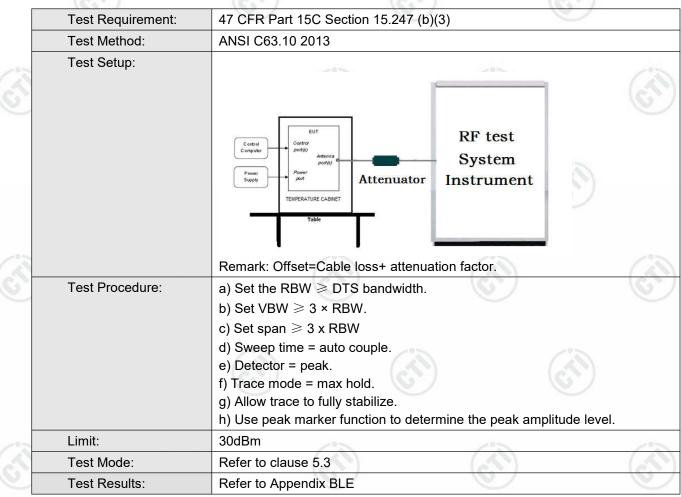






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### 7.2 Maximum Conducted Output Power









### 7.3 DTS Bandwidth

Т	est Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Т	est Method:	ANSI C63.10 2013
Т	est Setup:	
		Control Congruer Doct(b) Power Supply Table RF test System Instrument
		Remark: Offset=Cable loss+ attenuation factor.
Т	est Procedure:	<ul> <li>a) Set RBW = 100 kHz.</li> <li>b) Set the VBW ≥[3 × RBW].</li> <li>c) Detector = peak.</li> <li>d) Trace mode = max hold.</li> <li>e) Sweep = auto couple.</li> <li>f) Allow the trace to stabilize.</li> <li>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.</li> </ul>
Li	imit:	≥ 500 kHz
Т	est Mode:	Refer to clause 5.3
Т	est Results:	Refer to Appendix BLE







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### 7.4 Maximum Power Spectral Density

	Test Requirement:	47 CFR Part 15C Section 15.247 (e)
	Test Method:	ANSI C63.10 2013
3	Test Setup:	
		Control Computer Computer Power Supply Table RF test System Instrument
		Remark: Offset=Cable loss+ attenuation factor.
	Test Procedure:	<ul> <li>a) Set analyzer center frequency to DTS channel center frequency.</li> <li>b) Set the span to 1.5 times the DTS bandwidth.</li> <li>c) Set the RBW to 3 kHz &lt; RBW &lt; 100 kHz.</li> <li>d) Set the VBW &gt; [3 × RBW].</li> <li>e) Detector = peak.</li> <li>f) Sweep time = auto couple.</li> <li>g) Trace mode = max hold.</li> <li>h) Allow trace to fully stabilize.</li> <li>i) Use the peak marker function to determine the maximum amplitude level within the RBW.</li> <li>j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.</li> </ul>
	Limit:	≤8.00dBm/3kHz
	Test Mode:	Refer to clause 5.3
	Test Results:	Refer to Appendix BLE

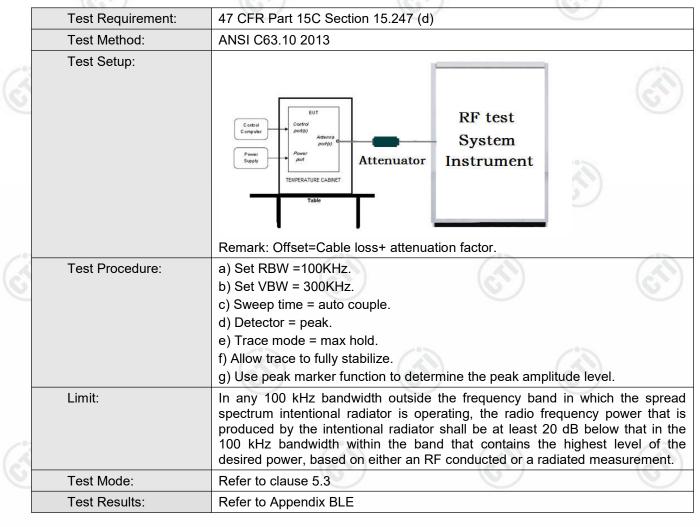






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### 7.5 Band Edge measurements and Conducted Spurious Emission





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### 7.6 Radiated Spurious Emission & Restricted bands

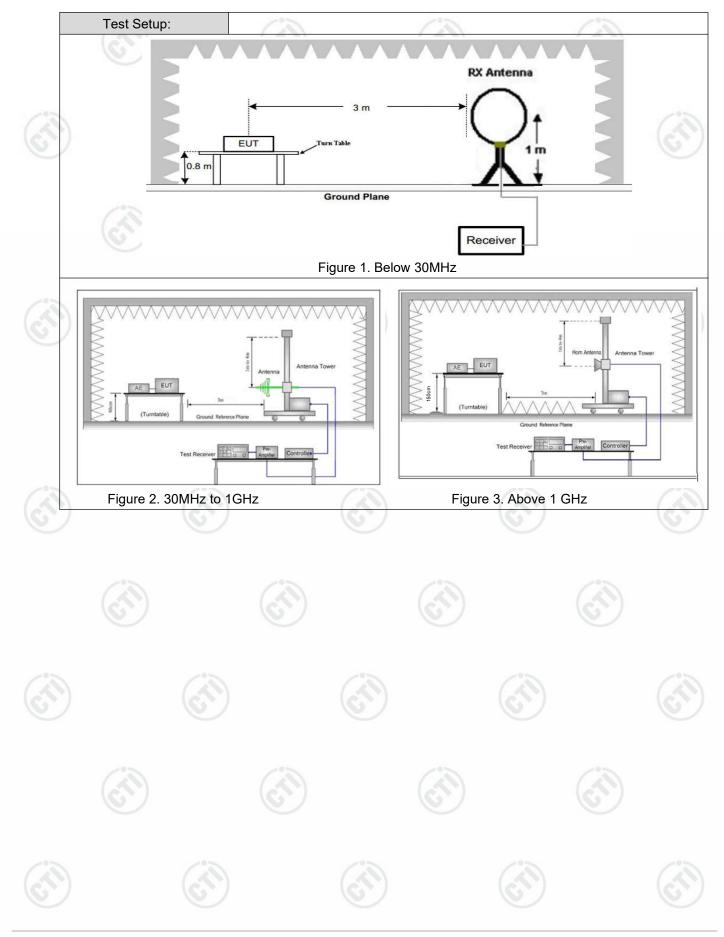
	Test Requirement:	47 CFR Part 15C Section	on 1	5.209 and 15	.205		C	/
	Test Method:	ANSI C63.10 2013						
-	Test Site:	Measurement Distance	: 3n	n (Semi-Anech	noic Cham	be	r)	- 11
	Receiver Setup:	Frequency	2	Detector	RBW	1	VBW	Remark
9		0.009MHz-0.090MH	z	Peak	10kHz	z 30kHz		Peak
		0.009MHz-0.090MH	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	łz	300kHz	Quasi-peak
25			2	Peak	1MHz		3MHz	Peak
S I		Above 1GHz		Peak	1MHz	)	10kHz	Average
	Limit:	Frequency		eld strength crovolt/meter)	Limit (dBuV/m)		Remark	Measureme distance (m
		0.009MHz-0.490MHz	2	400/F(kHz)	-	-73		300
		0.490MHz-1.705MHz	24	4000/F(kHz)	-			30
		1.705MHz-30MHz		30	-	<u> </u>		30
		30MHz-88MHz		100	40.0	Q	uasi-peak	3
-0-		88MHz-216MHz		150	43.5	Q	uasi-peak	3
		216MHz-960MHz	2	200	46.0	Q	uasi-peak	3
2		960MHz-1GHz	)	500	54.0	Q	uasi-peak	3
		Above 1GHz		500	54.0		Average	3
		Note: 15.35(b), frequency emissions is limit applicable to the e peak emission level rac	20c quip	B above the oment under t	maximum est. This p	ре	rmitted ave	erage emission







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Test Procedure:	<ul> <li>a. 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 radiation.</li> <li>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.</li> <li>b. The EUT was set 3 meters away from nemeter 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.</li> <li>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.</li> <li>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> </ul>
	<ul> <li>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.</li> <li>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>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</li> </ul>
	<ul> <li>margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li> <li>g. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz)</li> <li>h. The radiation measurements are performed in X, Y, Z axis positioning</li> </ul>
	for Transmitting mode, and found the X axis positioning which it is the worst case.
	Repeat above procedures until all treduencies measured was complete
Test Mode:	<ul><li>i. Repeat above procedures until all frequencies measured was complete.</li><li>Refer to clause 5.3</li></ul>







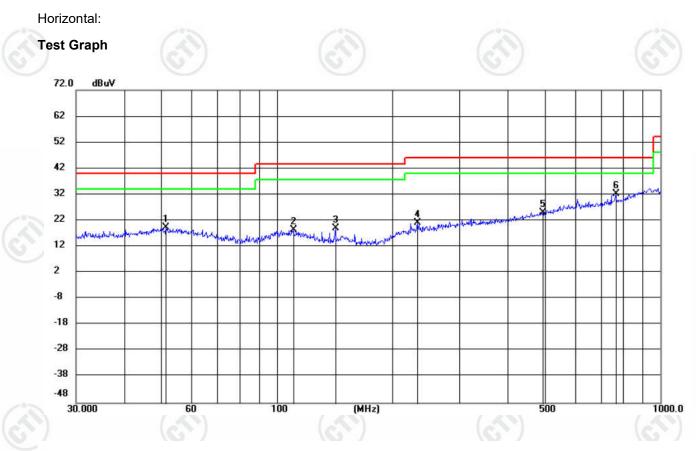




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#### **Radiated Spurious Emission below 1GHz:**

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 of left ear was recorded in the report.



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	51.4807	4.78	14.60	19.38	40.00	-20.62	peak	100	356	
2	110.5686	4.88	13.47	18.35	43.50	-25.15	peak	100	49	
3	142.3243	8.17	10.86	19.03	43.50	-24.47	peak	200	4	
4	232.5318	6.94	14.17	21.11	46.00	-24.89	peak	200	4	
5	494.1984	4.55	20.60	25.15	46.00	-20.85	peak	200	4	
6 *	766.0571	7.74	24.56	32.30	46.00	-13.70	peak	200	4	

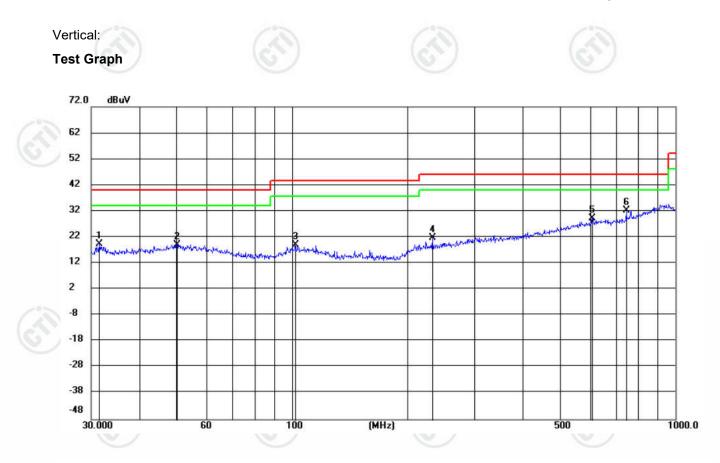








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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		31.5095	6.75	12.75	19.50	40.00	-20.50	peak	100	351	
2		50.2324	4.38	14.74	19.12	40.00	-20.88	peak	100	351	
3		102.0014	5.35	13.62	18.97	43.50	-24.53	peak	100	22	
4		232.5318	7.51	14.17	21.68	46.00	-24.32	peak	100	224	
5		607.7867	6.73	22.67	29.40	46.00	-16.60	peak	100	4	
6	*	744.8661	8.24	24.10	32.34	46.00	-13.66	peak	100	322	





#### **Radiated Spurious Emission above 1GHz:**

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

3	Mode	:		BLE GFSK Trai	nsmitting	Channel:		2402 MHz	Z	
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
[	1	1369.2369	1.29	39.59	40.88	74.00	33.12	Pass	н	PK
Ī	2	1924.0924	4.16	38.43	42.59	74.00	31.41	Pass	н	PK
Ī	3	3602.0401	-20.36	56.07	35.71	74.00	38.29	Pass	н	PK
Ī	4	4804.1203	-16.23	53.28	37.05	74.00	36.95	Pass	Н	PK
	5	8521.3681	-10.50	50.32	39.82	74.00	34.18	Pass	Н	PK
	6	13736.7158	-1.72	46.55	44.83	74.00	29.17	Pass	н	PK
5	7	1336.6337	1.18	39.32	40.50	74.00	33.50	Pass	V	PK
	8	1822.8823	3.45	38.80	42.25	74.00	31.75	Pass	V	PK
Ī	9	3603.0402	-20.36	57.96	37.60	74.00	36.40	Pass	V	PK
Ī	10	6005.2003	-12.97	55.05	42.08	74.00	31.92	Pass	V	PK
	11	7207.2805	-11.83	51.42	39.59	74.00	34.41	Pass	V	PK
	12	10795.5197	-6.24	48.24	42.00	74.00	32.00	Pass	V	PK

	Mode	:	E	BLE GFSK Trar	nsmitting		Channel:		2440 MHz	<u>.</u>
3	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1359.636	1.26	39.19	40.45	74.00	33.55	Pass	Н	PK
	2	1778.6779	3.21	39.81	43.02	74.00	30.98	Pass	Н	PK
	3	3660.044	-20.10	56.68	36.58	74.00	37.42	Pass	Н	PK
	4	6100.2067	-13.15	55.35	42.20	74.00	31.80	Pass	Н	PK
	5	7731.3154	-11.14	50.37	39.23	74.00	34.77	Pass	Н	PK
	6	12515.6344	-4.72	48.69	43.97	74.00	30.03	Pass	Н	PK
205	7	1280.6281	1.01	39.84	40.85	74.00	33.15	Pass	V	PK
~	8	1982.2982	4.45	38.78	43.23	74.00	30.77	Pass	V	PK
6	9	3660.044	-20.10	57.09	36.99	74.00	37.01	Pass	V	PK
	10	6099.2066	-13.15	55.85	42.70	74.00	31.30	Pass	V	PK
	11	7320.288	-11.65	51.75	40.10	74.00	33.90	Pass	V	PK
	12	11295.553	-6.62	48.67	42.05	74.00	31.95	Pass	V	PK











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		200		10-		20 %			0.000	
	Mode	<b>:</b>		BLE GFSK Tra	nsmitting		Channel:		2480 MHz	z
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1353.6354	1.23	39.60	40.83	74.00	33.17	Pass	н	PK
	2	1919.4919	4.13	38.34	42.47	74.00	31.53	Pass	Н	PK
	3	3720.048	-19.78	3 56.24	36.46	74.00	37.54	Pass	Н	PK
	4	6191.2127	-13.20	54.23	41.03	74.00	32.97	Pass	Н	PK
	5	7651.3101	-11.13	51.92	40.79	74.00	33.21	Pass	Н	PK
	6	11931.5954	-5.64	49.16	43.52	74.00	30.48	Pass	Н	PK
	7	1358.0358	1.25	39.10	40.35	74.00	33.65	Pass	V	PK
	8	1991.6992	4.51	38.33	42.84	74.00	31.16	Pass	V	PK
	9	3720.048	-19.78	56.97	37.19	74.00	36.81	Pass	V	PK
Ī	10	6199.2133	-13.21	56.26	43.05	74.00	30.95	Pass	V	PK
3	11	9265.4177	-7.92	48.43	40.51	74.00	33.49	Pass	V	PK
	12	12601.6401	-4.12	48.23	44.11	74.00	29.89	Pass	V	PK
1.5	1			6						

#### 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.











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#### **Restricted bands:**

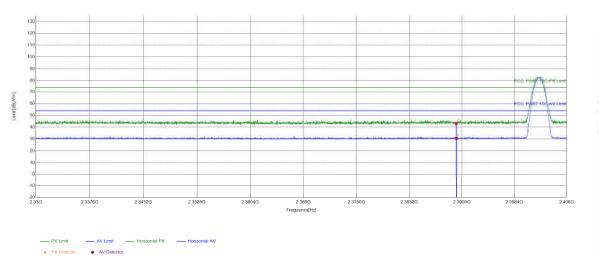




#### Test plot as follows:

(E)	Mode:	BLE GFSK Transmitting	Channel:	2402	(2)
	Remark:	1M	U		(P)

#### Test Graph

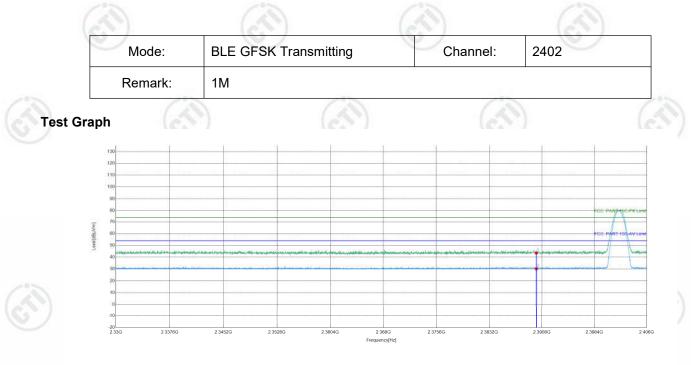


Suspecte NO	d List Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	5.77	37.40	43.17	74.00	30.83	PASS	Horizontal	PK
2	2390	5.77	24.81	30.58	54.00	23.42	PASS	Horizontal	AV
(ů	5)	·	67)		6			(~~)	





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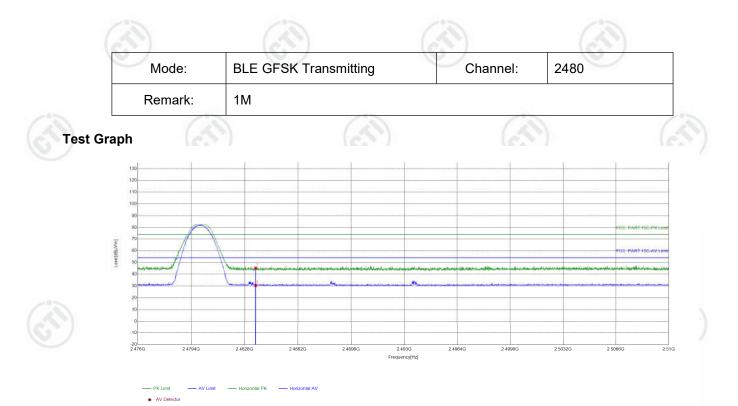
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	Suspected List												
-	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark			
	1	2390	5.77	37.83	43.60	74.00	30.40	PASS	Vertical	PK			
U	2	2390	5.77	24.45	30.22	54.00	23.78	PASS	Vertical	AV			

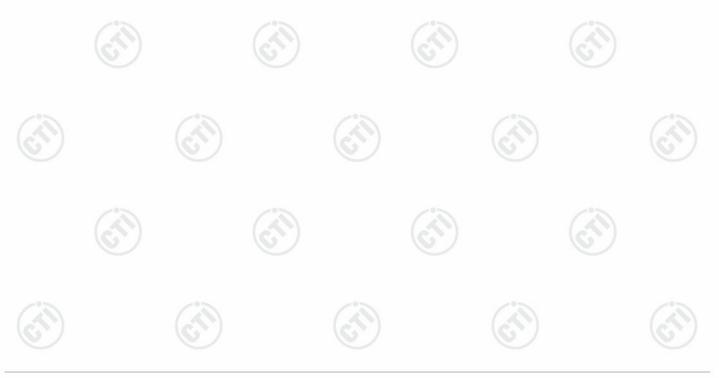




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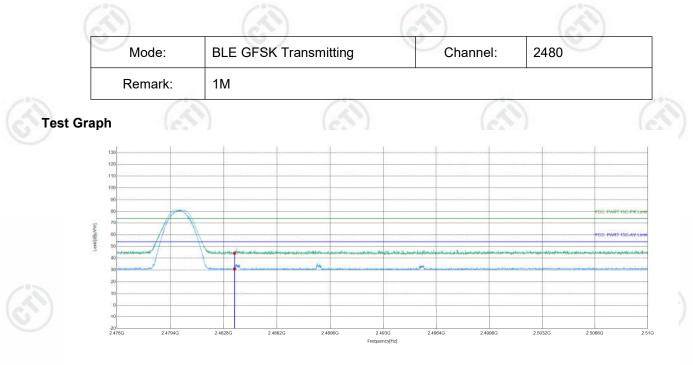


	Suspecte	d List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
$(\mathcal{A})$	1	2483.5	6.57	38.69	45.26	74.00	28.74	PASS	Horizontal	PK
C	2	2483.5	6.57	23.89	30.46	54.00	23.54	PASS	Horizontal	AV



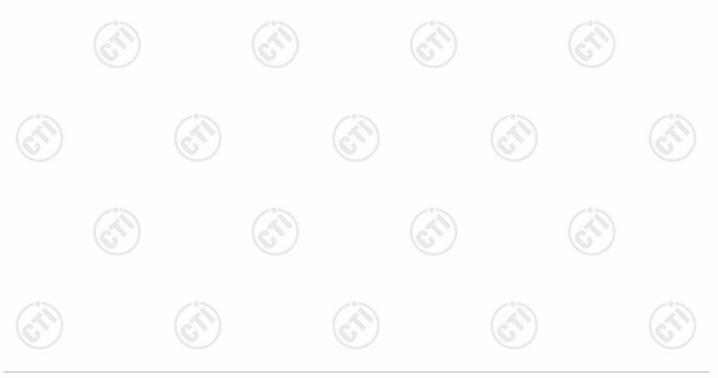


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	Suspecte	d List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
A.	1	2483.5	6.57	37.69	44.26	74.00	29.74	PASS	Vertical	PK
٢	2	2483.5	6.57	24.33	30.90	54.00	23.10	PASS	Vertical	AV

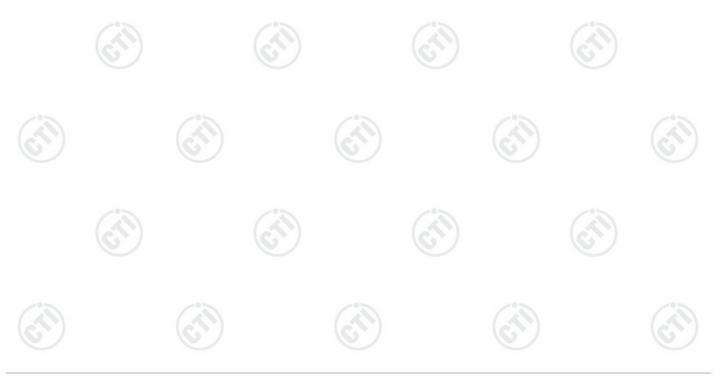




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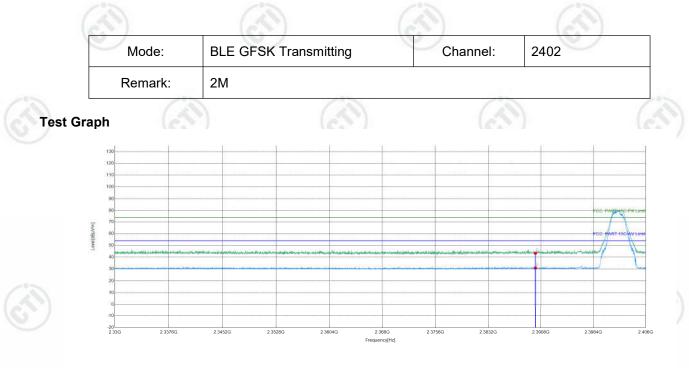


	Suspecte	d List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
$(\mathcal{A})$	1	2390	5.77	38.23	44.00	74.00	30.00	PASS	Horizontal	PK
6	2	2390	5.77	24.86	30.63	54.00	23.37	PASS	Horizontal	AV



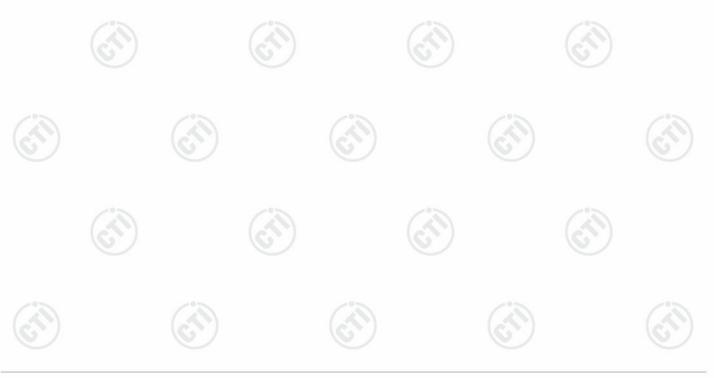


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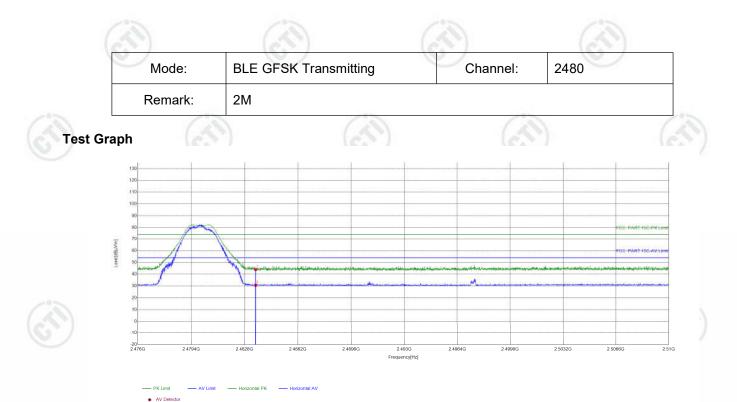
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	Suspecte	d List								
-	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2390	5.77	37.70	43.47	74.00	30.53	PASS	Vertical	PK
U	2	2390	5.77	25.07	30.84	54.00	23.16	PASS	Vertical	AV

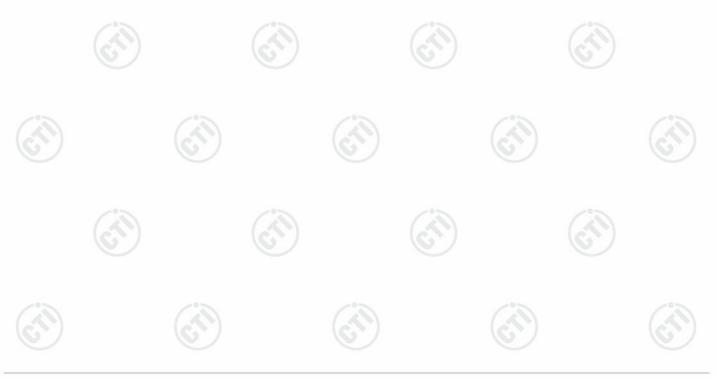




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	Suspecte	d List								
100	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
$(\mathcal{A})$	1	2483.5	6.57	37.43	44.00	74.00	30.00	PASS	Horizontal	PK
C	2	2483.5	6.57	24.02	30.59	54.00	23.41	PASS	Horizontal	AV





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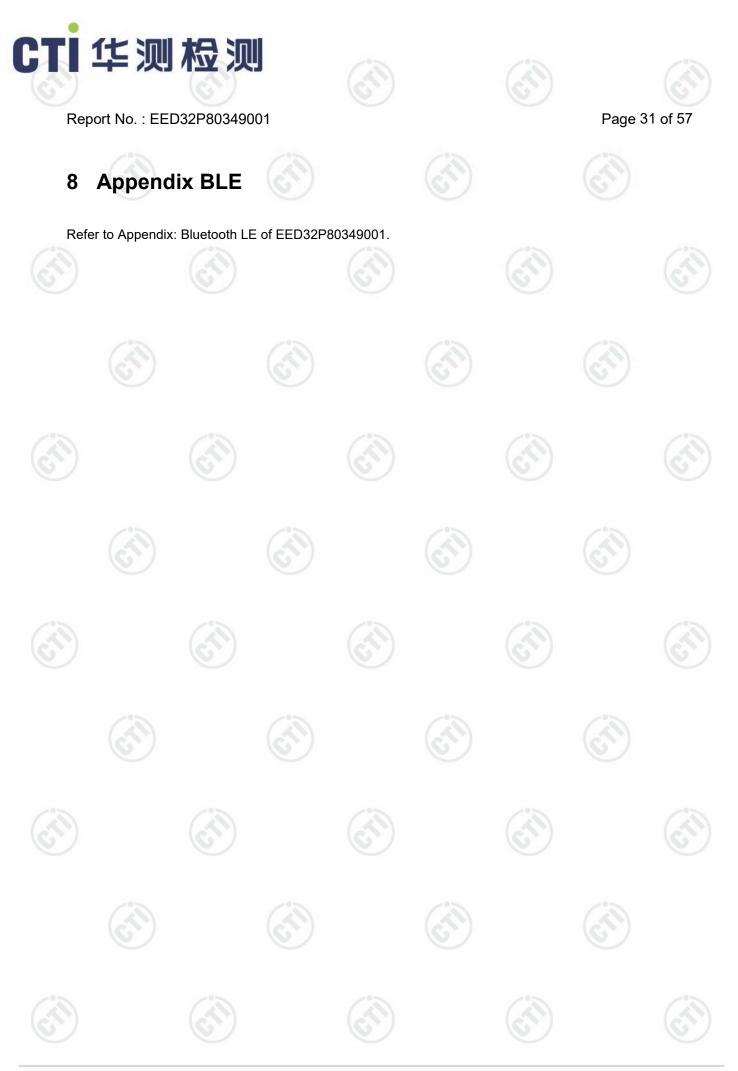


	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2483.5	6.57	37.82	44.39	74.00	29.61	PASS	Vertical	PK
C	2	2483.5	6.57	24.63	31.20	54.00	22.80	PASS	Vertical	AV

Note: The field strer

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



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