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TEST REPORT

Product	1	EC
Trade mark	6	N/A
Model/Type reference	:	ER
Serial Number	:	N/A
Report Number	:	EE
FCC ID	:	2AI
Date of Issue	:	Ма
Test Standards	5.	47
Test result	6	PA

- G recorder
- 4 2-S
- 4
- D32N80947901
- DXK-3623
- r. 09, 2022
- CFR Part 15 Subpart C
- SS

Prepared for:

Shenzhen Viatom Technology Co., Ltd. 4E, 3#, Tingwei Industrial Park, Honglang North 2nd Road, Baoan District, Shenzhen, China

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:	Martin Lee	Reviewed by:	Aaron X	la
G Approved by	Martin Lee David Wane	Date:	Aaron Ma Mar. 09, 202	
Report Seal	David Wang	(A)	Check No.: 9	310270921
(A)				









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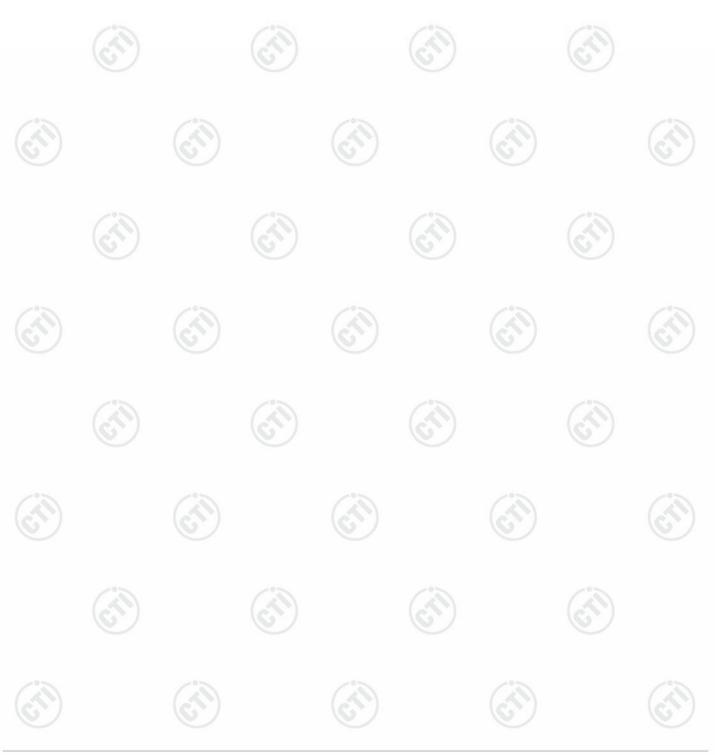




2 Version

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	Version No.	Date	6	Description	/
	00	Mar. 09, 2022		Original	
5		1	10	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	100
	- (c	(?)	$(c^{(n)})$	$(c^{(n)})$	(5)





et 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.







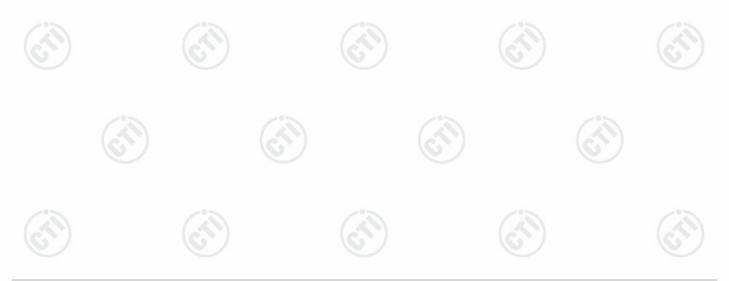
4 General Information

4.1 Client Information

Applicant:	Shenzhen Viatom Technology Co., Ltd.		
Address of Applicant:	4E, 3#, Tingwei Industrial Park, Honglang North 2nd Road, Baoan District, Shenzhen, China		
Manufacturer:	Shenzhen Viatom Technology Co., Ltd.		
Address of Manufacturer:	501, Building B, Ganghongji High-tech Intelligent Industrial Park, No.1008 Songbai Road, Xili Street, Nanshan District, 518055 Shenzhen, China		
Factory:	Shenzhen Viatom Technology Co., Ltd.		
Address of Factory:	501, Building B, Ganghongji High-tech Intelligent Industrial Park, No.1008 Songbai Road, Xili Street, Nanshan District, 518055 Shenzhen, China		

4.2 General Description of EUT

Product Name:	ECG recorder			
Mode No.:	ER2-S			
Trade mark:	N/A	6		6
Bluetooth Version:	V5.0			
Operation Frequency:	2402MHz~2480MHz			
Modulation Type:	GFSK			
Transfer Rate:	⊠1Mbps ⊠2Mbps	67)	(\mathcal{C})	
Number of Channel:	40			
Product Type:	🗌 Mobile 🛛 Portable	Fix Location		
Antenna Type:	Chip antenna			13
Antenna Gain:	4.97dBi	(5)		6
Power Supply:	Lithium battery: DC 3.7V, 0	Charge by DC 5.0V		U
Test Voltage:	DC 3.7V			
Sample Received Date:	Nov. 03, 2021	2°22	~	
Sample tested Date:	Nov. 03, 2021 to Nov. 10, 2	2021	(\mathcal{A})	



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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
The highest channel (CH39)	2480MHz









4.3 Test Configuration

EUT Test Softwar	e Settings:					
Software:	662x_FCC	662x_FCC_Rev1.7 (manufacturer declare)				
EUT Power Grade	: Class2 (Po selected)	Class2 (Power level is built-in set parameters and cannot be changed and selected)				
Use test software t transmitting of the	o set the lowest frequenc EUT.	cy, 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	СН19	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		

4.4 Test Environment

	Operating Environment	t:						
	Radiated Spurious Emissions:							
	Temperature:	22~25.0 °C						
	Humidity:	50~55 % RH				10.4		
\mathbb{Z}	Atmospheric Pressure:	1010mbar						
	RF Conducted:							
	Temperature:	22~25.0 °C				<u> </u>		
	Humidity:	50~55 % RH						
	Atmospheric Pressure:	1010mbar						
-								

4.5 Description of Support Units

The EUT has been tested with associated equipment below.

Associated equipment name		Manufacture	model	S/N serial number	Supplied by	Certification
AE1	Notebook	DELL	DELL 3490	D245DX2		FCC ID







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		0.46dB (30MHz-1GHz)		
2	RF power, conducted	0.55dB (1GHz-18GHz)		
		3.3dB (9kHz-30MHz)		
3	Dedicted Couvieurs emission test	4.3dB (30MHz-1GHz)		
5	Radiated Spurious emission test	4.5dB (1GHz-18GHz)		
		3.4dB (18GHz-40GHz)		
	Quarter	3.5dB (9kHz to 150kHz)		
•)	Conduction emission	3.1dB (150kHz to 30MHz)		
5	Temperature test	0.64°C		
6	Humidity test	3.8%		
7	DC power voltages	0.026%		







5 Equipment List

RF test system								
Equipment	Manufacturer	nufacturer Mode No.		Cal. Date (mm-dd-yyyy)	Cal. Due date) (mm-dd-yyyy			
Spectrum Analyzer	R&S	FSV40	101200	08-26-2021	08-25-2022			
Signal Generator	Keysight	N5182B	MY53051549	12-28-2020	12-27-2021			
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	06-23-2021	06-22-2022			
High-pass filter	Sinoscite	FL3CX03WG18 NM12-0398-002	(A)	(<u>~</u>)			
High-pass filter	MICRO- TRONICS	SPA-F-63029-4						
DC Power	Keysight	E3642A	MY56376072	12-28-2020	12-27-2021			
PC-1	Lenovo	R4960d			()			
Power unit	R&S	OSP120	101374	12-28-2020	12-27-2021			
RF control unit	JS Tonscend	JS0806-2	158060006	12-28-2020	12-27-2021			
BT&WI-FI Automatic test software	JS Tonscend	JS1120-3						

		3M Semi/full-anec	hoic Chamber			
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy	
3M Chamber & Accessory Equipment	ток	SAC-3		05-24-2019	05-23-2022	
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9136-401	10-17-2021	10-16-2022	
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04-15-2021	04-14-2024	
Receiver	R&S	ESCI7	100009	04-15-2021	04-14-2022	
Multi device Controller	maturo	NCD/070/10711 112	<u> </u>		<u> </u>	
Temperature/ Humidity Indicator	Shanghai qixiang	HM10	1804298	06-24-2021	06-23-2022	
Cable line	Fulai(7M)	SF106	5219/6A		(
Cable line	Fulai(6M)	SF106	5220/6A	(C))	(c	
Cable line	Fulai(3M)	SF106	5216/6A	<u> </u>	<	
Cable line	Fulai(3M)	SF106	5217/6A			

















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		3M full-anecho	ic 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		
Receiver	Keysight	N9038A	MY57290136	03-04-2021	03-03-2022
Spectrum Analyzer	Keysight	N9020B	MY57111112	03-04-2021	03-03-2022
Spectrum Analyzer	Keysight	N9030B	MY57140871	03-04-2021	03-03-2022
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	00057407	07-04-2021	07-03-2024
Preamplifier	EMCI	EMC184055SE	980597	05-20-2021	05-19-2022
Preamplifier	EMCI	EMC001330	980563	04-15-2021	04-14-2022
Preamplifier	JS Tonscend	980380	EMC051845 SE	12-31-2020	12-30-2021
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-16-2021	04-15-2022
Fully Anechoic Chamber	трк	FAC-3		01-09-2021	01-08-2024
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	<">	
Cable line	Times	SFT205-NMSM- 2.50M	393495-0001	((ć
Cable line	Times	EMC104-NMNM- 1000	SN160710	<u> </u>	
Cable line	Times	SFT205-NMSM- 3.00M	394813-0001		
Cable line	Times	SFT205-NMNM- 1.50M	381964-0001	()	
Cable line	Times	SFT205-NMSM- 7.00M	394815-0001	\	9
Cable line	Times	HF160-KMKM- 3.00M	393493-0001		













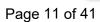






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6 Test results and Measurement Data

6.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

15.203 requirement:

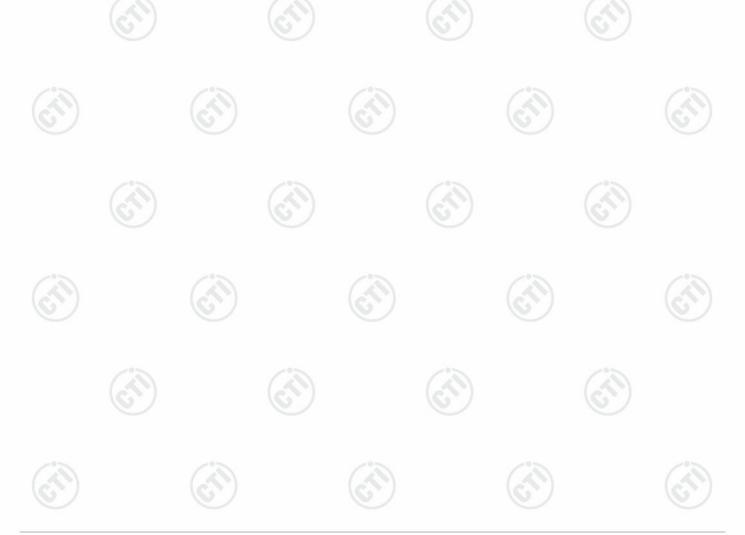
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 enterna is Chin enterna	a. The best appendix of the enterna is 4.07dPi

The antenna is Chip antenna. The best case gain of the antenna is 4.97dBi.

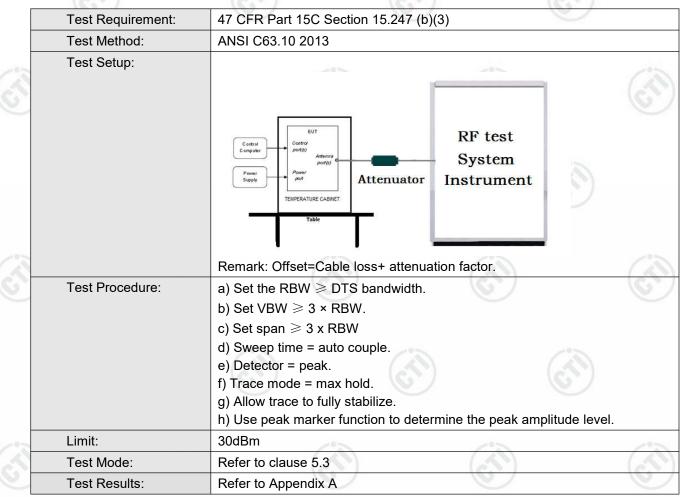






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6.2 Maximum Conducted Output Power









6.3 DTS Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)					
Test Method:	ANSI C63.10 2013					
Test Setup:						
	Control Computer Potent Power Suppy Table RF test System Instrument					
 Test Procedure:	Remark: Offset=Cable loss+ attenuation factor. a) Set RBW = 100 kHz. b) Set the VBW ≥[3 × RBW].					
	 b) Set the VBW >[3 × RBV]. 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 A					







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6.4 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 Power Supply Table RF test System Instrument						
2	Test Procedure:	Remark: Offset=Cable loss+ attenuation factor. a) Set analyzer center frequency to DTS channel center frequency.						
	Test i focedure.	 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 A						







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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						
3	Test Setup:	Control Control Power Supply TemPERATURE CABNET Table						
		Remark: Offset=Cable loss+ attenuation factor.						
NO	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.						
2	Test Mode:	Refer to clause 5.3						
	Test Results:	Refer to Appendix A						









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6.6 Radiated Spurious Emission & Restricted bands

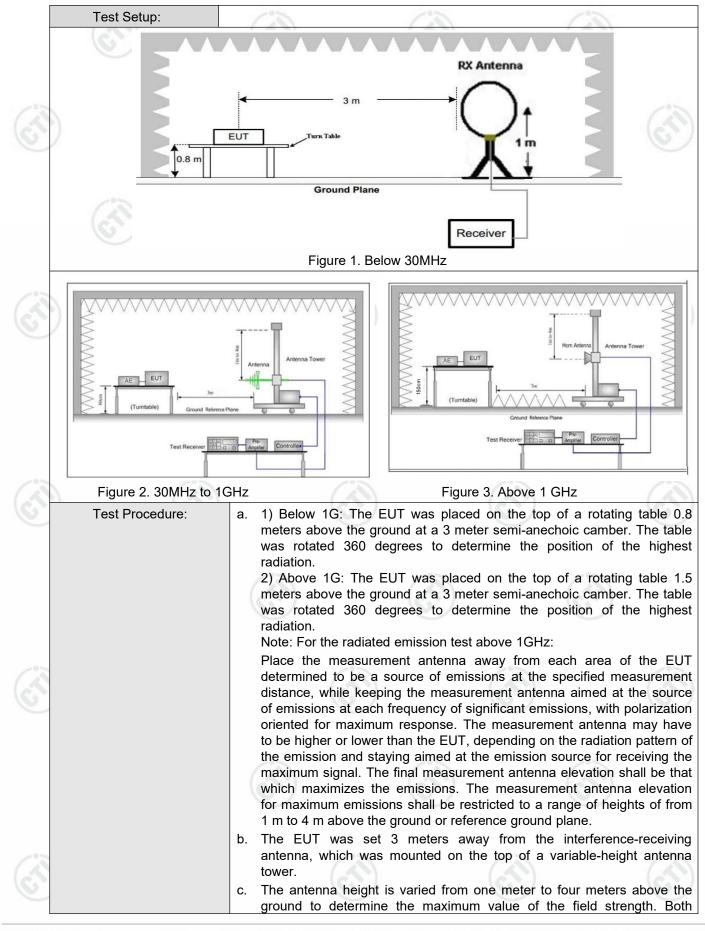
	Test Requirement:	47 CFR Part 15C Secti	ion 15.2	209 and 15	.205	5		C		
	Test Method:	ANSI C63.10 2013								
	Test Site:	Measurement Distance	e: 3m (S	Semi-Anecł	hoic	Chamb	ber)			
	Receiver Setup:	Frequency		Detector		RBW		VBW	Remark	
<u>S</u>		0.009MHz-0.090MH	łz	Peak		10kHz	3	30kHz	Peak	
		0.009MHz-0.090MH	łz	Average		10kHz	3	30kHz	Average	
		0.090MHz-0.110MH	lz C	Quasi-peak		10kHz	3	80kHz	Quasi-peak	
		0.110MHz-0.490MH	łz	Peak		10kHz	3	80kHz	Peak	
		0.110MHz-0.490MH	łz	Average		10kHz	3	80kHz	Average	
		0.490MHz -30MHz	<u>z</u> (Quasi-peak		10kHz	3	30kHz	Quasi-peak	
		30MHz-1GHz		Quasi-peak 100		100 kHz	lz 300kHz		Quasi-peak	
13				Peak		1MHz		3MHz	Peak	
6		Above 1GHz	e) 🗆	Peak		1MHz		0kHz	Average	
	Limit:	Frequency	Field strength (microvolt/meter)			.imit uV/m)	Remark		Measuremer distance (m	
		0.009MHz-0.490MHz	2400)/F(kHz)		-	- ~ >>		300	
		0.490MHz-1.705MHz				-		18	30	
		1.705MHz-30MHz		30 -		-			30	
		30MHz-88MHz		100		0.0	Qua	si-peak	3	
		88MHz-216MHz		150	43	3.5	Qua	si-peak	3	
		216MHz-960MHz	0	200	46	6.0	Qua	si-peak	3	
(U)		960MHz-1GHz		500	54	4.0	Qua	si-peak	3	
		Above 1GHz		500	54	4.0	Av	erage	3	
		frequency emissions is limit applicable to the e	Note: 15.35(b), Unless otherwise specified, frequency emissions is 20dB above the maximum pe limit applicable to the equipment under test. This pea peak emission level radiated by the device.					itted av	erage emission	







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CTI华测检测

	Test Results:	Pass
	Test Mode:	Refer to clause 5.3
		i. Repeat above procedures until all frequencies measured was complete.
2		 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.
3		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.



















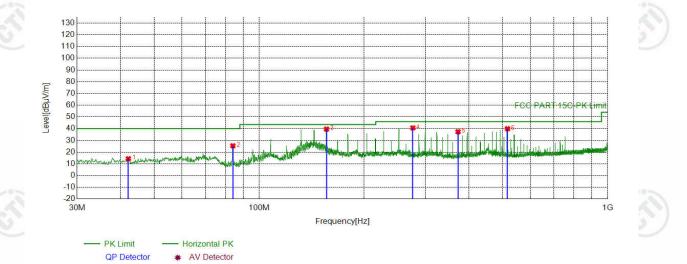
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Report No.: EED32N80947901

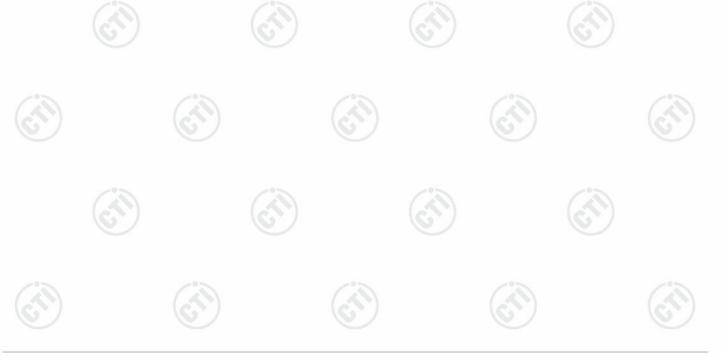
Radiated Spurious Emission below 1GHz:

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes, only the worst case mode d was recorded in the report.

Test Graph



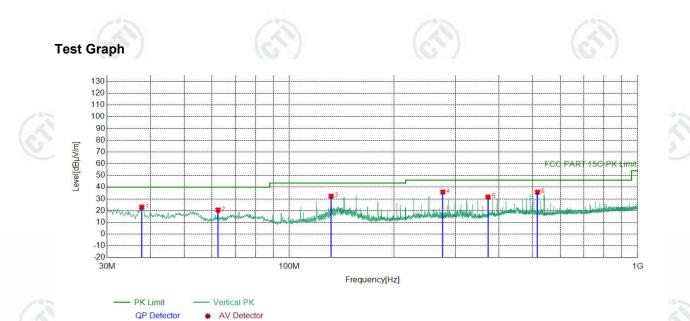
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
ľ	1	42.1262	-17.66	32.07	14.41	40.00	25.59	PASS	Horizontal	Peak
	2	84.0344	-21.58	46.99	25.41	40.00	14.59	PASS	Horizontal	Peak
1	3	156.0156	-21.35	60.98	39.63	43.50	3.87	PASS	Horizontal	Peak
	4	276.0166	-16.02	56.68	40.66	46.00	5.34	PASS	Horizontal	Peak
	5	372.0562	-13.51	50.90	37.39	46.00	8.61	PASS	Horizontal	Peak
	6	516.0186	-10.53	50.48	39.95	46.00	6.05	PASS	Horizontal	Peak







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S)		07		67		0		(v)	
NO	Freq.	Factor	Reading	Level	Limit	Morgin [dP]	Result	Delerity	Remark
	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	37.7608	-18.74	41.75	23.01	40.00	16.99	PASS	Vertical	Peak
2	62.4983	-19.07	39.64	20.57	40.00	19.43	PASS	Vertical	Peak
3	131.9572	-21.66	54.07	32.41	43.50	11.09	PASS	Vertical	Peak
4	276.0166	-16.02	51.90	35.88	46.00	10.12	PASS	Vertical	Peak
5	372.0562	-13.51	45.16	31.65	46.00	14.35	PASS	Vertical	Peak
6	516.0186	-10.53	46.30	35.77	46.00	10.23	PASS	Vertical	Peak
37		0)	6)	6	/	(C)	7





Radiated Spurious Emission above 1GHz:

Mode	:		BLE GFSK Transmitting(1Mbps)			Channel:		2402 MHz	
NO	Freq. [MHz]	Facto [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1407.4407	1.40	42.90	44.30	74.00	29.70	Pass	н	PK
2	1668.4668	2.74	42.90	45.64	74.00	28.36	Pass	Н	PK
3	4804.1203	-16.23	69.96	53.73	74.00	20.27	Pass	н	PK
4	7206.2804	-11.83	61.17	49.34	74.00	24.66	Pass	Н	PK
5	9609.4406	-7.37	53.96	46.59	74.00	27.41	Pass	Н	PK
6	14389.7593	1.05	49.55	50.60	74.00	23.40	Pass	Н	PK
7	1208.8209	0.82	43.53	44.35	74.00	29.65	Pass	V	PK
8	1784.6785	3.23	41.85	45.08	74.00	28.92	Pass	V	PK
9	4804.1203	-16.23	68.98	52.75	74.00	21.25	Pass	V	PK
10	7207.2805	-11.83	62.13	50.30	74.00	23.70	Pass	V	PK
11	9609.4406	-7.37	56.31	48.94	74.00	25.06	Pass	V	PK
12	14396.7598	1.17	49.47	50.64	74.00	23.36	Pass	V	PK

	Mode	:		BLE GFSK Tra	nsmitting(1Mb	ps)	Channel:		2440 MHz	Z	
	NO	Freq. [MHz]	Facto [dB]	r Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
<	1	1237.2237	0.90	42.75	43.65	74.00	30.35	Pass	Н	PK	
2	2	1842.4842	3.60	41.95	45.55	74.00	28.45	Pass	Н	PK	
	3	4880.1253	-16.21	67.64	51.43	74.00	22.57	Pass	Н	PK	
	4	7319.2880	-11.66	58.02	46.36	74.00	27.64	Pass	Н	PK	
	5	9761.4508	-7.51	54.00	46.49	74.00	27.51	Pass	Н	PK	
	6	13732.7155	-1.72	51.80	50.08	74.00	23.92	Pass	Н	PK	
	7	1268.6269	0.98	43.00	43.98	74.00	30.02	Pass	V	PK	
	8	1992.2992	4.51	41.25	45.76	74.00	28.24	Pass	V	PK	
	9	4880.1253	-16.21	65.10	48.89	74.00	25.11	Pass	V	PK	
3	10	7319.2880	-11.66	60.61	48.95	74.00	25.05	Pass	V	PK	
	11	9761.4508	-7.51	56.86	49.35	74.00	24.65	Pass	V	PK	
9	12	13683.7122	-1.75	51.13	49.38	74.00	24.62	Pass	V	PK	









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10				CO.		105		1.11	20-		
	Mode	:		BLE GF	SK Tra	nsmitting(1Mb	ps)	Channel:		2480 MHz	
	NO	Freq. [MHz]	Factor [dB]	1 1.00	iding βμV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
-	1	1250.0250	0.93	43	.35	44.28	74.00	29.72	Pass	Н	PK
	2	1925.2925	4.16	41	.21	45.37	74.00	28.63	Pass	Н	PK
	3	4960.1307	-15.97	71	.02	55.05	74.00	18.95	Pass	Н	PK
	4	4961.1307	-15.97	64	.75	48.78	54.00	5.22	Pass	Н	AV
	5	7441.2961	-11.34	59	.89	48.55	74.00	25.45	Pass	Н	PK
	6	11202.5468	-6.44	53	.12	46.68	74.00	27.32	Pass	Н	PK
	7	14314.7543	-0.20	50	.60	50.40	74.00	23.60	Pass	Н	PK
	8	1352.6353	1.23	42	.82	44.05	74.00	29.95	Pass	V	PK
	9	1933.4933	4.20	41	.52	45.72	74.00	28.28	Pass	V	PK
	10	4960.1307	-15.97	68	.08	52.11	74.00	21.89	Pass	V	PK
	11	7441.2961	-11.34	65	.80	54.46	74.00	19.54	Pass	V	PK
	12	7441.2961	-11.34	55	.89	44.55	54.00	9.45	Pass	V	AV
-	13	11822.5882	-6.05	53	.46	47.41	74.00	26.59	Pass	V	PK
	14	16495.8997	1.68	51	.21	52.89	74.00	21.11	Pass	V	PK

	Mode	:		BLE GFSK T	ransmitting(2Mb	ops)	Channel:		2402 MHz	
	NO	Freq. [MHz]	Factor [dB]	r Reading [dBµV]	g Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1397.6398	1.38	42.43	43.81	74.00	30.19	Pass	Н	PK
ð	2	1926.8927	4.17	41.13	45.30	74.00	28.70	Pass	Н	PK
	3	4805.1203	-16.23	3 67.08	50.85	74.00	23.15	Pass	Н	PK
1	4	7204.2803	-11.83	3 57.79	45.96	74.00	28.04	Pass	Н	PK
	5	9608.4406	-7.37	54.68	47.31	74.00	26.69	Pass	Н	PK
	6	14387.7592	1.02	49.35	50.37	74.00	23.63	Pass	Н	PK
	7	1410.4410	1.40	42.23	43.63	74.00	30.37	Pass	V	PK
	8	1968.0968	4.38	41.62	46.00	74.00	28.00	Pass	V	PK
	9	4803.1202	-16.23	3 65.74	49.51	74.00	24.49	Pass	V	PK
	10	7208.2806	-11.83	3 62.06	50.23	74.00	23.77	Pass	V	PK
10	11	9606.4404	-7.36	58.04	50.68	74.00	23.32	Pass	V	PK
5	12	13176.6784	-3.24	51.58	48.34	74.00	25.66	Pass	V	PK
	1			/						



















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	122						200			
	Mode	:		BLE GFSK Tra	nsmitting(2Mb	ops)	Channel:		2440 MHz	
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1323.8324	1.14	42.89	44.03	74.00	29.97	Pass	Н	PK
0	2	1914.2914	4.10	41.90	46.00	74.00	28.00	Pass	Н	PK
	3	4879.1253	-16.21	69.03	52.82	74.00	21.18	Pass	Н	PK
	4	7322.2882	-11.65	57.72	46.07	74.00	27.93	Pass	Н	PK
	5	10456.4971	-6.40	52.83	46.43	74.00	27.57	Pass	Н	PK
	6	13737.7158	-1.72	51.12	49.40	74.00	24.60	Pass	Н	PK
	7	1394.8395	1.37	42.58	43.95	74.00	30.05	Pass	V	PK
	8	1953.2953	4.31	41.19	45.50	74.00	28.50	Pass	V	PK
	9	4880.1253	-16.21	63.89	47.68	74.00	26.32	Pass	V	PK
	10	7319.2880	-11.66	62.81	51.15	74.00	22.85	Pass	V	PK
10	11	10589.5060	-6.58	52.47	45.89	74.00	28.11	Pass	V	PK
	12	14332.7555	0.10	50.51	50.61	74.00	23.39	Pass	V	PK

Mode	:		BLE GFSK Tra	nsmitting(2Mb	ps)	Channel:		2480 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1269.4269	0.98	43.06	44.04	74.00	29.96	Pass	Н	PK
2	1763.0763	3.15	41.82	44.97	74.00	29.03	Pass	Н	PK
3	4959.1306	-15.98	71.06	55.08	74.00	18.92	Pass	Н	PK
4	4961.1307	-15.97	62.60	46.63	54.00	7.37	Pass	Н	AV
5	7441.2961	-11.34	59.45	48.11	74.00	25.89	Pass	Н	PK
6	11156.5438	-6.33	53.99	47.66	74.00	26.34	Pass	Н	PK
7	14305.7537	-0.34	50.85	50.51	74.00	23.49	Pass	Н	PK
8	1264.2264	0.97	43.45	44.42	74.00	29.58	Pass	V	PK
9	1865.6866	3.77	41.89	45.66	74.00	28.34	Pass	V	PK
10	4961.1307	-15.97	71.62	55.65	74.00	18.35	Pass	V	PK
11	7442.2962	-11.33	63.74	52.41	74.00	21.59	Pass	V	PK
12	9918.4612	-7.10	52.50	45.40	74.00	28.60	Pass	V	PK
13	14336.7558	0.17	50.14	50.31	74.00	23.69	Pass	V	PK
31		1							

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 + Factor

Factor=Antenna Factor + Cable Factor – Preamplifier Factor

2) Scan from 9kHz to 25GHz, the disturbance above 18GHz 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.









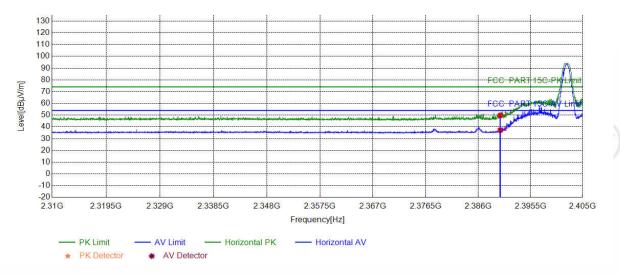
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Test plot as follows:

E C	Mode:	BLE GFSK Transmitting(1Mbps)	Channel:	2402 MHz
N) [Remark:		6)
× 1				

Test Graph

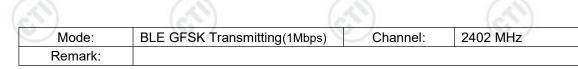


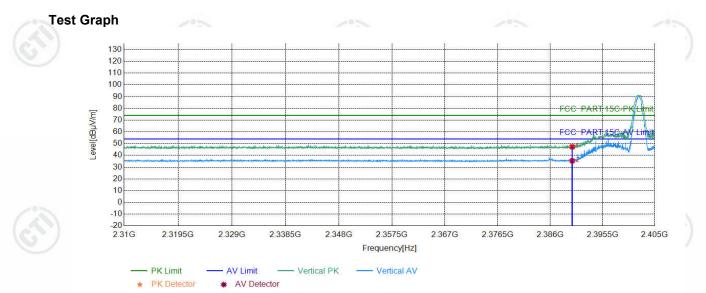
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
6	1	2390.0000	5.77	43.96	49.73	74.00	24.27	PASS	Horizontal	PK
	2	2390.0000	5.77	31.42	37.19	54.00	16.81	PASS	Horizontal	AV





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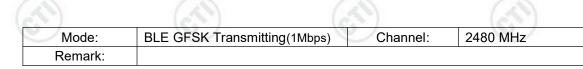


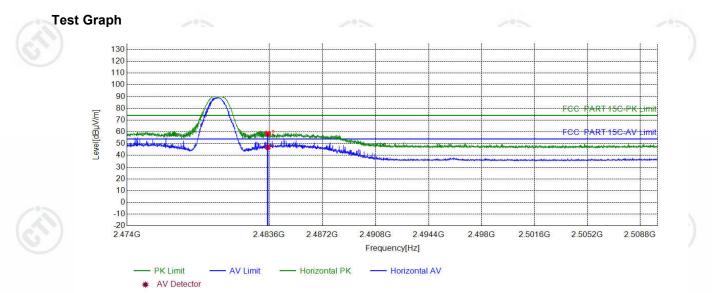
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	41.55	47.32	74.00	26.68	PASS	Vertical	PK
 2	2390.0000	5.77	29.64	35.41	54.00	18.59	PASS	Vertical	AV
)	((2	(1)		



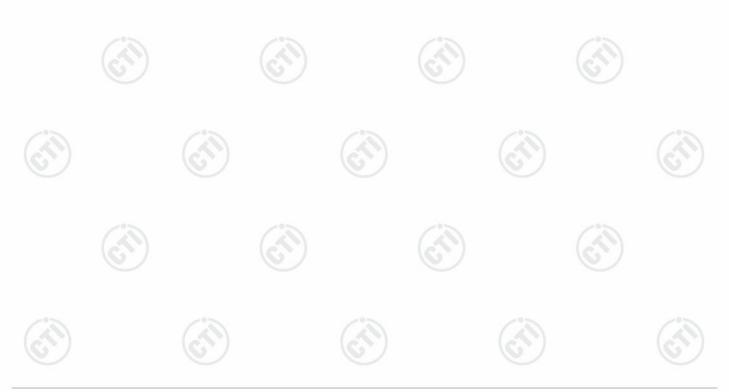


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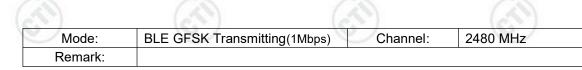


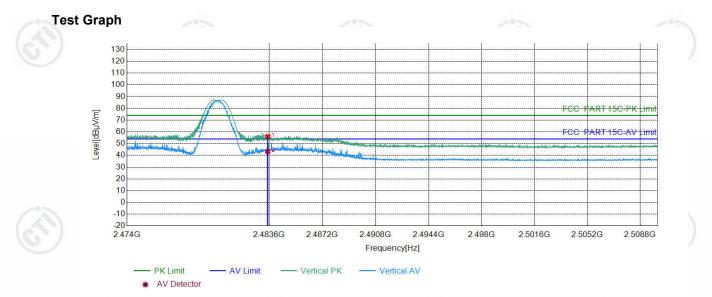
	NO	Freq.	Factor	Reading	Level	Limit	Margin	Result	Polarity	Remark
	NO	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Result	Polarity	Remark
	1	2483.5000	6.57	52.01	58.58	74.00	15.42	PASS	Horizontal	PK
	2	2483.5000	6.57	40.39	46.96	54.00	7.04	PASS	Horizontal	AV
(1)	9	(2				0	0		



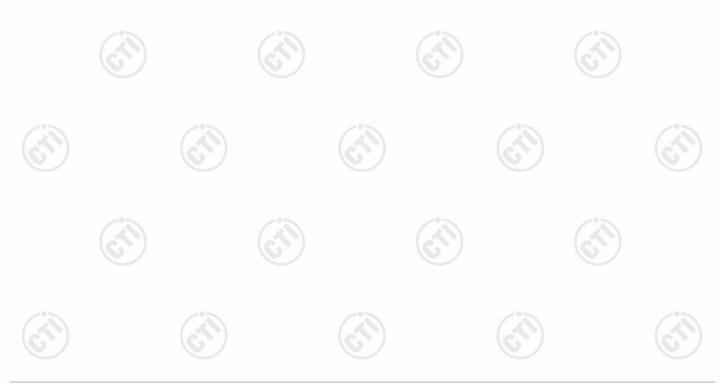


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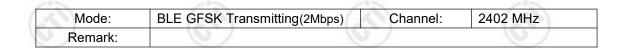


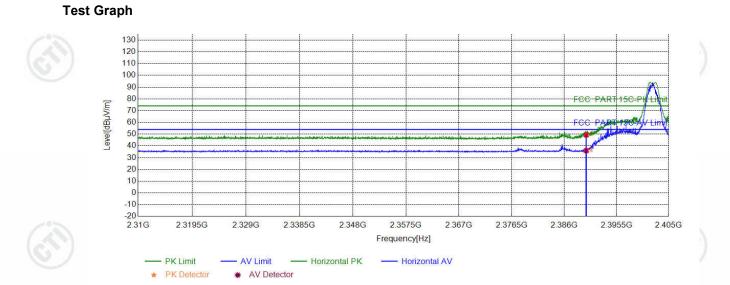


	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2483.5000	6.57	49.43	56.00	74.00	18.00	PASS	Vertical	PK
	2	2483.5000	6.57	36.79	43.36	54.00	10.64	PASS	Vertical	AV
2)	(2		(2)		(2			(\mathcal{A}^{n})









NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	43.50	49.27	74.00	24.73	PASS	Horizontal	PK
2	2390.0000	5.77	30.21	35.98	54.00	18.02	PASS	Horizontal	AV











(j)

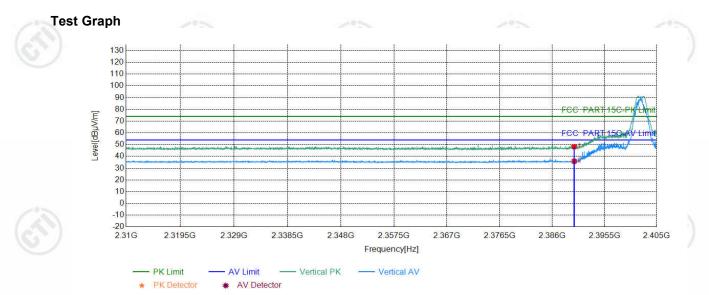






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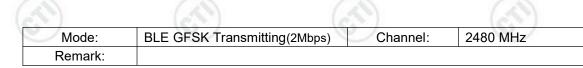


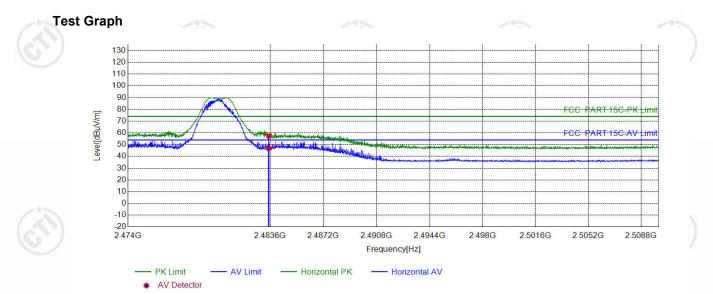
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2390.0000	5.77	42.45	48.22	74.00	25.78	PASS	Vertical	PK
10-	2	2390.0000	5.77	30.10	35.87	54.00	18.13	PASS	Vertical	AV
X	9	((1)				(2	(1)		



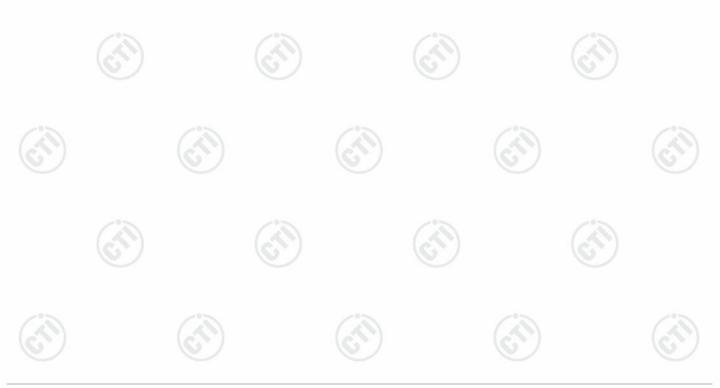


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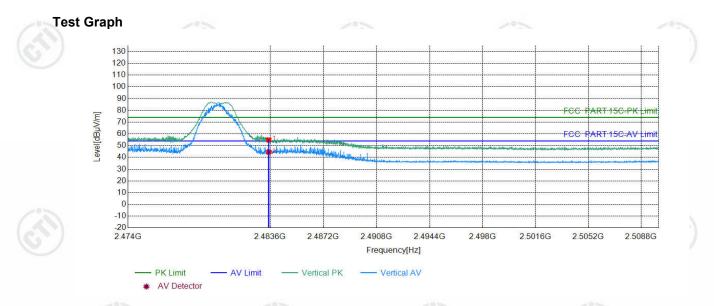


	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2483.5000	6.57	50.87	57.44	74.00	16.56	PASS	Horizontal	PK
100	2	2483.5000	6.57	40.34	46.91	54.00	7.09	PASS	Horizontal	AV
	9	(2				(2	(1)		(A)









	NO	Freq.	Factor	Reading	Level	Limit	Margin	Result	Polarity	Remark	
		[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]				
	1	2483.5000	6.57	48.39	54.96	74.00	19.04	PASS	Vertical	PK	
	2	2483.5000	6.57	38.00	44.57	54.00	9.43	PASS	Vertical	AV	
		/				•	1.1	10			

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 + Factor

Factor=Antenna Factor + Cable Factor – Preamplifier Factor

