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TEST REPORT

Product BRU Maker One

Trade mark **BRU**

Model/Type reference **BRU100**

Serial Number N/A

Report Number EED32O80686001

FCC ID 2A7IV-BRU100

Date of Issue Jun. 09, 2022

Test Standards 47 CFR Part 15 Subpart C

Test result PASS

Prepared for:

BRU AG

Buckhauserstrasse 34, 8048 Zürich, Switzerland

Prepared by:

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Date:

Jun. 09, 2022

Check No.:9818170522









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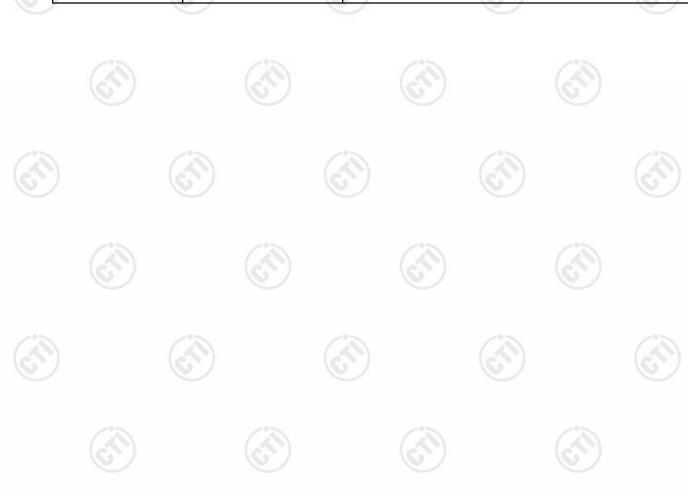


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3 Version

Version No.	Date	Description Original		
00	Jun. 09, 2022			

















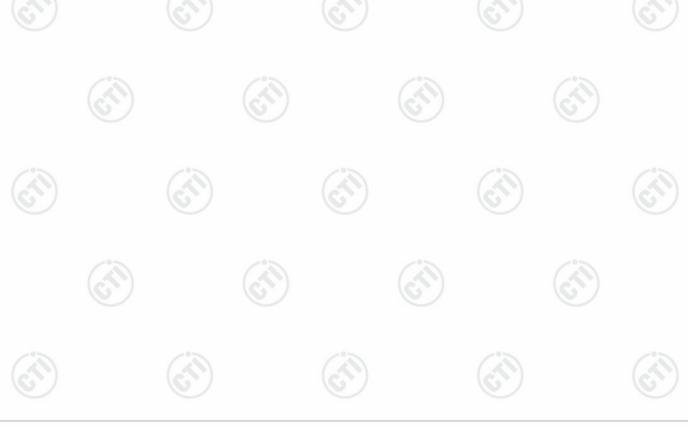
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4 Test Summary

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	PASS
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.





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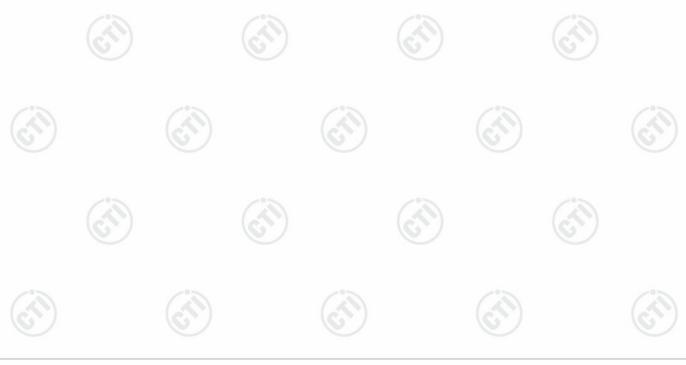
5 General Information

5.1 Client Information

Applicant:	BRU AG
Address of Applicant:	Buckhauserstrasse 34, 8048 Zürich, Switzerland
Manufacturer:	BRU AG
Address of Manufacturer:	Buckhauserstrasse 34, 8048 Zürich, Switzerland
Factory:	Shenzhen Chileaf Electronics Co., Ltd
Address of Factory:	4F, building 5#A, Skyworth science and technology industrial park phase ii, No. 1 tang tou road, Bao'an district, ShenZhen

5.2 General Description of EUT

	126.76	1 20 %			
Product Name:	BRU Maker One				
Model No.:	BRU100				
Trade mark:	BRU		-0-		
Product Type:	Fix Location		(41)		
Operation Frequency:	2402MHz~2480MHz				0
Modulation Type:	GFSK				
Transfer Rate:	1Mbps, 2Mbps				
Number of Channel:	40				
Antenna Type:	PCB Antenna	(0,)		(0)	
Antenna Gain:	-2 dBi				
Power Supply:	AC 120V				
Test Voltage:	AC 120V		(3)		
Sample Received Date:	May 18, 2022		(0,)		(0,)
Sample tested Date:	May 18, 2022 to May 22, 2	2022			





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Channal		Channal	Гиализа пач	Channal	Гианизанам	Chammal	
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

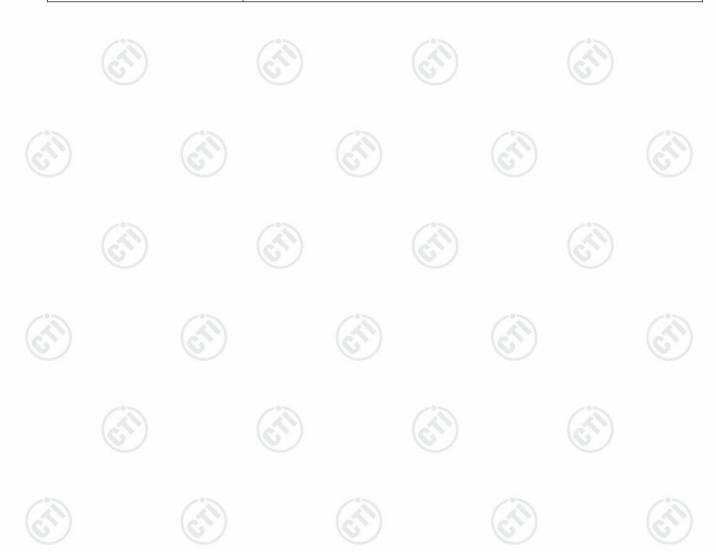
EUT Test Software	Settings:			
Software:	nRF_DTI	M	3~)	(6,2)
EUT Power Grade:	Class2 (F selected)		set parameters and c	annot be changed and
Use test software to transmitting of the E	set the lowest frequer UT.	ncy, the middle freque	ency and the highest	frequency keep
Test Mode	Modulation	Rate	Channel	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



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5.4 Test Environment

	Operating Environment	t:								
	Radiated Spurious Emissions:									
(II)	Temperature:	22~25.0 °C	100				(20)			
5	Humidity:	50~55 % RH	0)		(0,)		(0,)			
	Atmospheric Pressure:	1010mbar								
	Conducted Emissions:									
	Temperature:	22~25.0 °C								
	Humidity:	50~55 % RH		(0,2)		(0,)				
	Atmospheric Pressure:	1010mbar								
	RF Conducted:									
12	Temperature:	22~25.0 °C	· .		(3)		(3)			
(5)	Humidity:	50~55 % RH	(1)		(2/2)		(8/2)			
	Atmospheric Pressure:	1010mbar								





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5.5 Description of Support Units

The EUT has been tested with associated equipment below. support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
Netbook	DELL	Latitude 3490	FCC&CE	CTI
(67)		(3)	(6,1)	

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)

	3 \			
No.	Item	Measurement Uncertainty		
1	Radio Frequency	7.9 x 10 ⁻⁸		
9	DE novem conducted	0.46dB (30MHz-1GHz)		
2	RF power, conducted	0.55dB (1GHz-40GHz)		
3		3.3dB (9kHz-30MHz)		
	Radiated Spurious emission test	4.3dB (30MHz-1GHz)		
		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%		
		200		





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6 Equipment List

		RF test	system		
Equipment	Manufacturer	Mode No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Spectrum Analyzer	Keysight	N9010A	MY54510339	12-24-2021	12-23-2022
Signal Generator	Keysight	N5182B	MY53051549	12-24-2021	12-23-2022
Spectrum Analyzer	R&S	FSV40	101200	08-26-2021	08-25-2022
Signal Generator	Agilent	N5181A	MY46240094	12-24-2021	12-23-2022
DC Power	Keysight	E3642A	MY56376072	12-24-2021	12-23-2022
Power unit	R&S	OSP120	101374	12-24-2021	12-23-2022
RF control unit	JS Tonscend	JS0806-2	158060006	12-24-2021	12-23-2022
Communication test set	R&S	CMW500	120765	08-04-2021	08-03-2022
high-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	12-24-2021	12-23-2022
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	06-24-2021	06-23-2022
BT&WI-FI Automatic test software	JS Tonscend	JS1120-3	2.6.77.0518		

3M Semi-anechoic Chamber (2)- Radiated disturbance Test										
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Due Date					
3M Chamber & Accessory Equipment	TDK	SAC-3	(05/24/2019	05/23/2022					
Receiver	R&S	ESCI7	100938-003	10/14/2021	10/13/2022					
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-618	05/23/2019	05/22/2022					
Multi device Controller	maturo	NCD/070/10711112	(4)	(3)						
Horn Antenna	ETS-LINGREN	BBHA 9120D	9120D-1869	04/15/2021	04/14/2024					
Spectrum Analyzer	R&S	FSP40	100416	04/01/2022	03/31/2023					
Microwave Preamplifier	Adilent 84498		3008A02425 06/23/2021		06/22/2022					



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		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			
Receiver	Keysight	N9038A	MY57290136	03-01-2022	02-28-2023	
Spectrum Analyzer	Keysight	N9020B	MY57111112	02-23-2022	02-22-2023	
Spectrum Analyzer	Keysight	N9030B	MY57140871	02-23-2022	02-22-2023	
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	04-01-2022	03-31-2023	
Preamplifier	JS Tonscend	980380	EMC051845SE	12-24-2021	12-23-2022	
Communication test set	R&S	CMW500	102898 12-24-2021		12-23-2022	
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-11-2022	04-10-2023	
Fully Anechoic Chamber	TDK	FAC-3	(C <u>()</u>	01-09-2021	01-08-2024	
Cable line	Times	SFT205-NMSM-2.50M	394812-0001			
Cable line	Times	SFT205-NMSM-2.50M	394812-0002			
Cable line	Times	SFT205-NMSM-2.50M	394812-0003	<u></u>	()	
Cable line	Times	SFT205-NMSM-2.50M	393495-0001	<u> </u>		
Cable line	Times	EMC104-NMNM-1000	SN160710			
Cable line	Cable line Times Sf		394813-0001	(3)		
Cable line	Cable line Times SFT205-NN		381964-0001	🕙	/- <u></u>	
Cable line	Cable line Times S		394815-0001			
Cable line	Times	HF160-KMKM-3.00M	393493-0001		7.5	













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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:

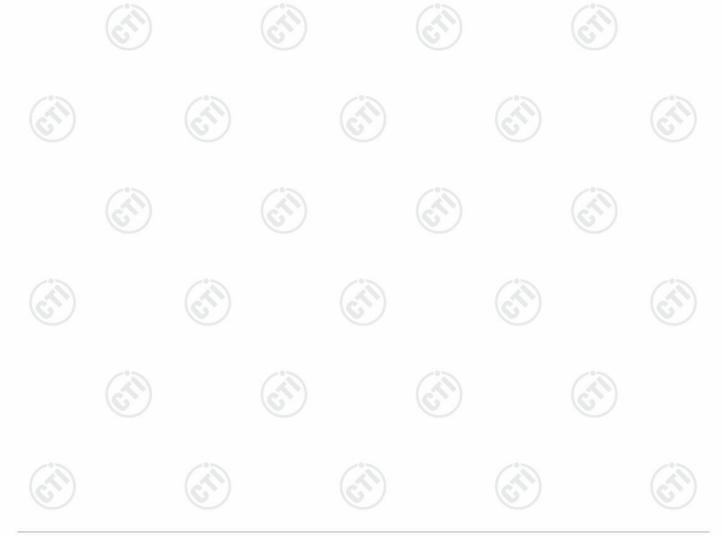
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 -2dBi.





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7.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207					
Test Method:	ANSI C63.10: 2013					
Test Frequency Range:	150kHz to 30MHz					
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sw	veep time=auto	_0_0			
Limit:	Frequency range (MHz)	Limit (d Quasi-peak	BuV) Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	* Decreases with the logarithm	of the frequency.	/°2			
Test Setup:	Shielding Room EUT AC Mains LISN1	Ground Reference Plane	Test Receiver			
Test Procedure:	 The mains terminal disturbation. The EUT was connected Impedance Stabilization Neimpedance. The power of connected to a second LISI plane in the same way as multiple socket outlet strip is single LISN provided the ra The tabletop EUT was placed on the horizontal ground reference plane. An placed on the horizontal ground reference with the EUT shall be 0.4 m for vertical ground reference reference plane. The LISN unit under test and bond mounted on top of the ground the closest points of the Lib and associated equipment of the interface cab ANSI C63.10: 2013 on condense. 	to AC power source etwork) which provides cables of all other of N 2, which was bonders the LISN 1 for the was used to connect noting of the LISN was noted upon a non-metal and for floor-standing around reference plane. In a vertical ground reference plane was bonded to 1 was placed 0.8 m and reference plane. The ISN 1 and the EUT. A was at least 0.8 m from memission, the relatives must be changed aducted measurement.	through a LISN 1 (Line is a $50\Omega/50\mu\text{H} + 5\Omega$ linear units of the EUT were do to the ground reference unit being measured. A multiple power cables to a ot exceeded. His table 0.8m above the trangement, the EUT was been also the horizontal ground from the boundary of the erence plane for LISNs his distance was between all other units of the EUT in the LISN 2. We positions of equipment according to			
Test Mode:	All modes were tested, only the	e worst case was reco	rded in the report.			
Test Voltage:	AC 120V/60Hz	-0-				
Test Results:	Pass					

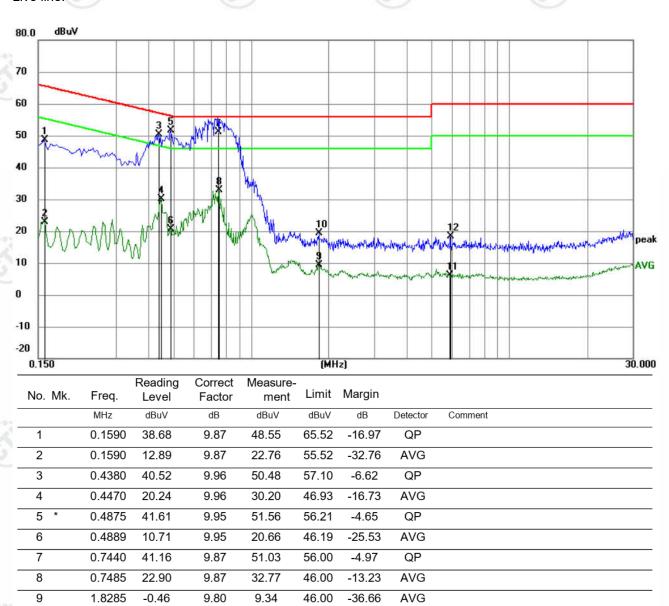
Hotline:400-6788-333 www.cti-cert.com E-mail:info@cti-cert.com Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com



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Measurement Data

Live line:



Remark:

12

10 11 1.8375

5.8740

5.9100

9.56

-3.61

8.57

1. The following Quasi-Peak and Average measurements were performed on the EUT:

19.36

6.17

18.35

2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

9.80

9.78

9.78

3. If the Peak value under Average limit, the Average value is not recorded in the report.



56.00

50.00

60.00

-36.64

-43.83

-41.65

QP

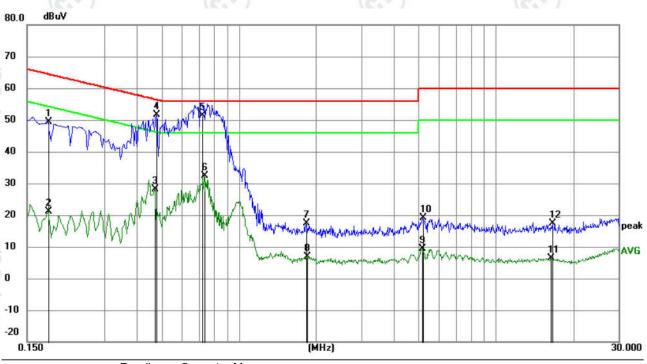
AVG

QΡ



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Neutral line:



ı	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
	1		0.1815	39.59	9.87	49.46	64.42	-14.96	QP	
3	2		0.1815	11.26	9.87	21.13	54.42	-33.29	AVG	
	3		0.4695	18.05	9.96	28.01	46.52	-18.51	AVG	
	4	*	0.4785	41.74	9.95	51.69	56.37	-4.68	QP	
	5		0.7170	41.43	9.87	51.30	56.00	-4.70	QP	
	6		0.7350	22.53	9.87	32.40	46.00	-13.60	AVG	
	7		1.8195	7.59	9.80	17.39	56.00	-38.61	QP	
	8		1.8420	-3.03	9.80	6.77	46.00	-39.23	AVG	
	9		5.1900	-0.30	9.78	9.48	50.00	-40.52	AVG	
	10		5.1989	9.46	9.78	19.24	60.00	-40.76	QP	
4	11		16.3275	-3.56	9.94	6.38	50.00	-43.62	AVG	
	12		16.5840	7.54	9.94	17.48	60.00	-42.52	QP	

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.









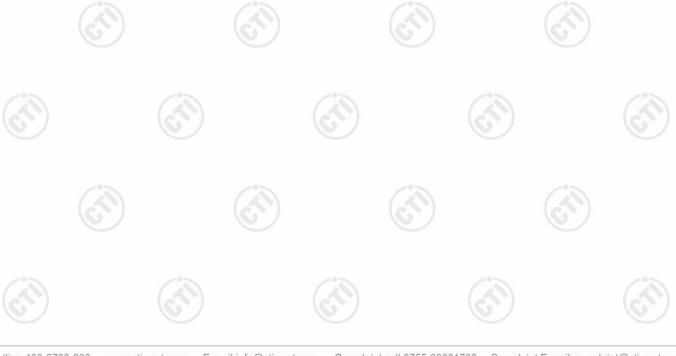




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7.3 Maximum Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)								
Test Method:	ANSI C63.10 2013								
Test Setup:		(ct)							
	Control Computer Power Supply Power TEMPERATURE CABRET Table RF test System Instrumer	nt							
	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								
Test Results:	Refer to Appendix C	Refer to Appendix C							

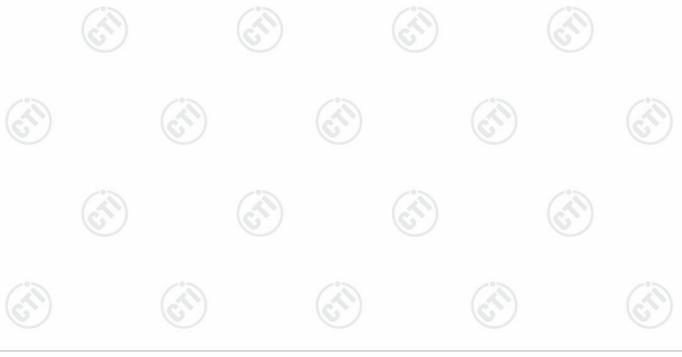




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7.4 DTS Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10 2013
Test Setup:	Control Control Control Control Control System Power Supply Power port Table RF test System Instrument Instrument
Test Procedure:	Remark: Offset=Cable loss+ attenuation factor. 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 A





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7.5 Maximum Power Spectral Density

Test Requirement	: 47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 2013
Test Setup:	
	Control Computer Power Supply Power Supply Actenia Pool Actenia Power Supply Actenia Power Power Table RF test System System Instrument
	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 D

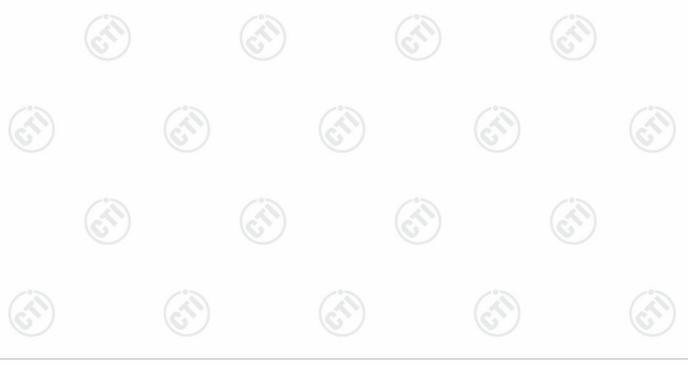




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7.6 Band Edge measurements and Conducted Spurious Emission

Test Requirement:	47 CFR Part 15C Section 15.247 (d)					
Test Method:	ANSI C63.10 2013					
Test Setup:	Control Control Power Supply Power Supply Table RF test System System Instrument Table					
	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 F					

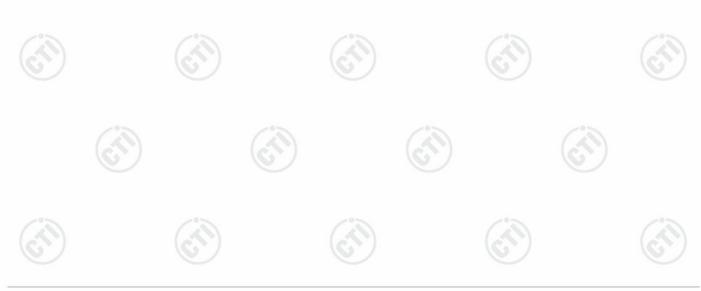




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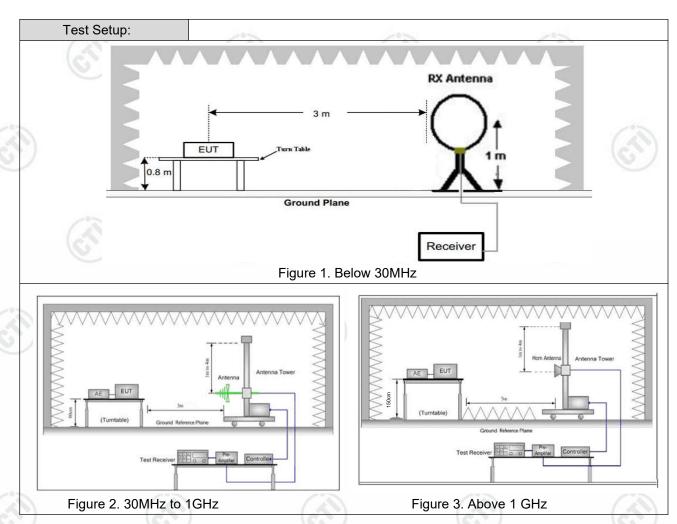
7.7 Radiated Spurious Emission & Restricted bands

Test Requirement:	47 CFR Part 15C Secti	on 1	5.209 and 15	.205	6.	/		
Test Method:	ANSI C63.10 2013							
Test Site:	Measurement Distance	: 3m	n (Semi-Anech	noic Cham	ber)			
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		
	Above 1GHz		Peak	1MHz	3MHz	Peak		
			Peak	1MHz	10kHz	Average		
Limit:	Frequency	l	eld strength crovolt/meter)	Limit (dBuV/m)	Remark	Measuremen distance (m)		
	0.009MHz-0.490MHz 24		400/F(kHz)	-	~°>	300		
	0.490MHz-1.705MHz	24	1000/F(kHz)	-	(-2/1)	30		
	1.705MHz-30MHz		30	-		30		
	30MHz-88MHz		100	40.0	Quasi-peak	3		
	88MHz-216MHz		150	43.5	Quasi-peak	3		
	216MHz-960MHz	9	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	20c quip	dB above the oment under t	maximum est. This p	permitted ave	erage emission		





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was rotated 360 degrees to determine the position of the highest radiation. 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, with eleping 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. 5. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 6. The antenna height is varied from one meter 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. 8. 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 then the antenna mass 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. 8. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 9. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing		
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. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. The antenna height is varied from one meter 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. 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. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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 10df margin would be re-tested one by one using peak, quasi-peak or average method as specified and then	Test Procedure:	meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest
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. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. The antenna height is varied from one meter 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. 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. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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 10df margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. g. Test the EUT in the lowest channel (2480MHz), the middle channel (2440MHz), the Highest channel (2480MHz). h. The radiation measurements are performed in X, Y, Z ax		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.
 b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. The antenna height is varied from one meter 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. 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. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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. g. Test the EUT in the lowest channel (2402MHz), the middle channel (2440MHz), the Highest channel (2480MHz) 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. i. Repeat above procedures until all frequencies measured was complete. 		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
ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 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. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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 10dE margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. g. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz) 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. i. Repeat above procedures until all frequencies measured was complete. Test Mode: Refer to clause 5.3		b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna
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. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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. g. Test the EUT in the lowest channel (2402MHz), the middle channel (2440MHz), the Highest channel (2480MHz) 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. i. Repeat above procedures until all frequencies measured was complete. Refer to clause 5.3		ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the
Bandwidth with Maximum Hold Mode. 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 10dE margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. g. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz) 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. i. Repeat above procedures until all frequencies measured was complete. Test Mode: Refer to clause 5.3		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
limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dE margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. g. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz) 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. i. Repeat above procedures until all frequencies measured was complete. Test Mode: Refer to clause 5.3		e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
(2440MHz),the Highest channel (2480MHz) 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. i. Repeat above procedures until all frequencies measured was complete. Test Mode: Refer to clause 5.3		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
for Transmitting mode, and found the X axis positioning which it is the worst case. i. Repeat above procedures until all frequencies measured was complete. Test Mode: Refer to clause 5.3		
Test Mode: Refer to clause 5.3		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.
		i. Repeat above procedures until all frequencies measured was complete.
Test Results: Pass		
	Test Results:	Pass









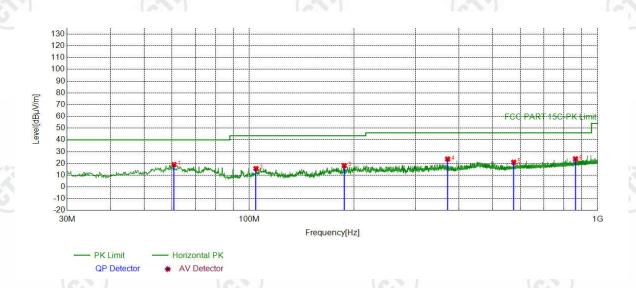




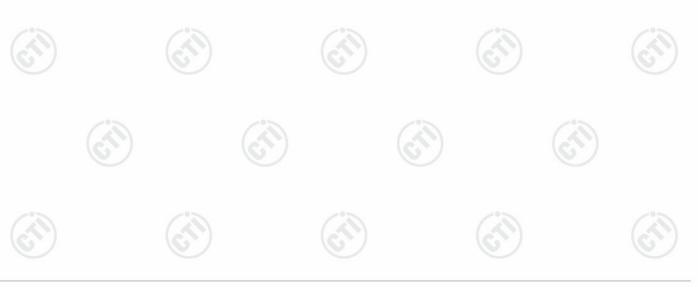
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Radiated Spurious Emission below 1GHz:

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

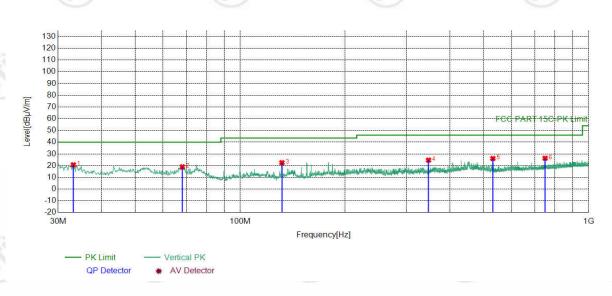


Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	34.8505	-19.61	40.15	20.54	40.00	19.46	PASS	Horizontal	PK
2	52.2152	-17.47	35.87	18.40	40.00	21.60	PASS	Horizontal	PK
3	120.0250	-20.08	44.89	24.81	43.50	18.69	PASS	Horizontal	PK
4	168.3358	-20.57	43.03	22.46	43.50	21.04	PASS	Horizontal	PK
5	382.7273	-13.32	44.56	31.24	46.00	14.76	PASS	Horizontal	PK
6	625.0575	-8.44	33.36	24.92	46.00	21.08	PASS	Horizontal	PK

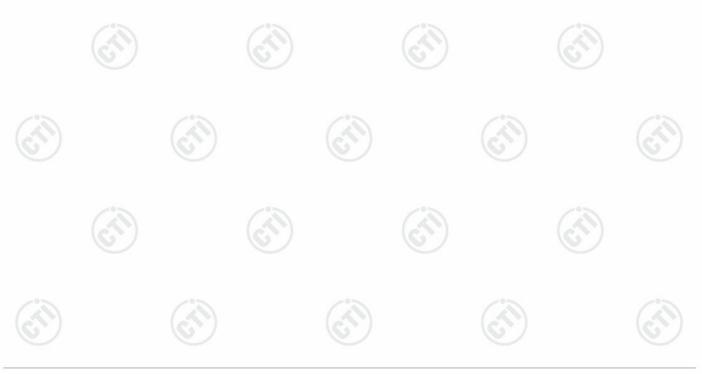




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	Suspected List										
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
	1	39.9920	-18.03	38.02	19.99	40.00	20.01	PASS	Vertical	PK	
	2	71.9082	-21.14	42.02	20.88	40.00	19.12	PASS	Vertical	PK	
0 -	3	167.4627	-20.64	43.02	22.38	43.50	21.12	PASS	Vertical	PK	
6	4	285.0385	-15.83	38.11	22.28	46.00	23.72	PASS	Vertical	PK	
	5	382.8243	-13.32	44.68	31.36	46.00	14.64	PASS	Vertical	PK	
	6	531.5402	-10.22	37.84	27.62	46.00	18.38	PASS	Vertical	PK	





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Radiated Spurious Emission above 1GHz:

BLE 1M:

Mode	::	E	BLE GFSK Tra	nsmitting		Channel:		2402 MHz	2
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1237.4237	0.90	41.71	42.61	74.00	31.39	Pass	Н	PK
2	1942.2942	4.25	39.58	43.83	74.00	30.17	Pass	Н	PK
3	4804.1203	-16.23	60.58	44.35	74.00	29.65	Pass	Н	PK
4	7205.2804	-11.83	68.37	56.54	74.00	17.46	Pass	Н	PK
5	7206.2804	-11.83	58.44	46.61	54.00	7.39	Pass	Н	AV
6	9607.4405	-7.37	64.16	56.79	74.00	17.21	Pass	Н	PK
7	9608.4406	-7.37	51.45	44.08	54.00	9.92	Pass	Н	AV
8	12011.6008	-5.32	66.90	61.58	74.00	12.42	Pass	Н	PK
9	12011.6008	-5.32	54.04	48.72	54.00	5.28	Pass	Н	AV
10	1222.4222	0.86	41.11	41.97	74.00	32.03	Pass	V	PK
11	1899.0899	4.02	39.49	43.51	74.00	30.49	Pass	V	PK
12	4804.1203	-16.23	57.19	40.96	74.00	33.04	Pass	V	PK
13	7207.2805	-11.83	67.38	55.55	74.00	18.45	Pass	V	PK
14	7207.2805	-11.83	56.42	44.59	54.00	9.41	Pass	V	AV
15	9608.4406	-7.37	50.69	43.32	54.00	10.68	Pass	V	AV
16	9609.4406	-7.37	62.77	55.40	74.00	18.60	Pass	V	PK
17	12010.6007	-5.31	51.95	46.64	54.00	7.36	Pass	V	AV
18	12011.6008	-5.32	64.21	58.89	74.00	15.11	Pass	V	PK

77			10,0								
2	Mode	e :		BLE	GFSK Trai	nsmitting		Channel:		2440 MHz	4
	NO	Freq. [MHz]	Facto [dB]		Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
ſ	1	1234.4234	0.89		41.32	42.21	74.00	31.79	Pass	Н	PK
Ī	2	2129.3129	4.56		43.95	48.51	74.00	25.49	Pass	Н	PK
	3	4880.1253	-16.21	1	60.60	44.39	74.00	29.61	Pass	Н	PK
	4	7319.2880	-11.66	3	67.04	55.38	74.00	18.62	Pass	Н	PK
0	5	7320.2880	-11.65	5	55.69	44.04	54.00	9.96	Pass	Н	AV
3	6	9760.4507	-7.51		54.91	47.40	54.00	6.60	Pass	Н	AV
-	7	9761.4508	-7.51		66.69	59.18	74.00	14.82	Pass	Н	PK
	8	12201.6134	-5.13		67.20	62.07	74.00	11.93	Pass	Н	PK
	9	12202.6135	-5.14		52.80	47.66	54.00	6.34	Pass	Н	AV
	10	1247.4247	0.92		41.41	42.33	74.00	31.67	Pass	V	PK
	11	2128.3128	4.57		45.21	49.78	74.00	24.22	Pass	V	PK
	12	4648.1099	-16.64	1	60.82	44.18	74.00	29.82	Pass	V	PK
	13	7321.2881	-11.65	5	65.56	53.91	74.00	20.09	Pass	V	PK
ď	14	9760.4507	-7.51		52.75	45.24	54.00	8.76	Pass	V	AV
4	15	9761.4508	-7.51		64.12	56.61	74.00	17.39	Pass	V	PK
2	16	12198.6132	-5.13		64.13	59.00	74.00	15.00	Pass	V	PK
	17	12199.6133	-5.12		50.35	45.23	54.00	8.77	Pass	V	AV



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	Mode	:		BLE GFSK Trai	nsmitting		Channel:		2480 MHz	2
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
ſ	1	1205.4205	0.81	41.11	41.92	74.00	32.08	Pass	Н	PK
	2	2127.5128	4.58	46.56	51.14	74.00	22.86	Pass	Н	PK
(3	7439.2960	-11.34	64.57	53.23	74.00	20.77	Pass	Н	PK
	4	7440.2960	-11.34	54.42	43.08	54.00	10.92	Pass	Н	AV
	5	9919.4613	-7.10	65.59	58.49	74.00	15.51	Pass	Н	PK
Ī	6	9920.4614	-7.10	55.70	48.60	54.00	5.40	Pass	Н	AV
Ī	7	12398.6266	-4.70	65.51	60.81	74.00	13.19	Pass	Н	PK
Ī	8	12400.6267	-4.69	52.99	48.30	54.00	5.70	Pass	Н	AV
Ī	9	14878.7919	-0.46	56.69	56.23	74.00	17.77	Pass	V	PK
Ī	10	14879.7920	-0.48	44.83	44.35	54.00	9.65	Pass	V	PK
Ī	11	1252.4252	0.94	41.71	42.65	74.00	31.35	Pass	V	PK
24	12	2130.1130	4.55	45.20	49.75	74.00	24.25	Pass	V	PK
	13	4960.1307	-15.97	59.32	43.35	74.00	30.65	Pass	V	PK
	14	7441.2961	-11.34	64.24	52.90	74.00	21.10	Pass	V	PK
Ī	15	7441.2961	-11.34	52.91	41.57	54.00	12.43	Pass	V	AV
Ī	16	9919.4613	-7.10	63.41	56.31	74.00	17.69	Pass	V	PK
Ī	17	9920.4614	-7.10	54.74	47.64	54.00	6.36	Pass	V	AV
Ī	18	12398.6266	-4.70	61.80	57.10	74.00	16.90	Pass	V	PK
Ī	19	12399.6266	-4.69	49.78	45.09	54.00	8.91	Pass	V	AV

BLF 2M:

D		ZIVI:	100		700		Z° >			Z 0 > _
N	1ode:	:	BL	LE GFSK Trai	nsmitting		Channel:		2402 MHz	<u>.</u>
N	10	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1155.8156	0.82	42.61	43.43	74.00	30.57	Pass	Н	PK
	2	2123.9124	4.62	45.52	50.14	74.00	23.86	Pass	Н	PK
	3	4805.1203	-16.23	59.19	42.96	74.00	31.04	Pass	Н	PK
	4	7204.2803	-11.83	68.04	56.21	74.00	17.79	Pass	Н	PK
	5	7206.2804	-11.83	56.67	44.84	54.00	9.16	Pass	Н	AV
0	6	9610.4407	-7.38	63.16	55.78	74.00	18.22	Pass	Н	PK
3	7	9610.4407	-7.38	52.08	44.70	54.00	9.30	Pass	Н	AV
	8	12007.6005	-5.30	66.41	61.11	74.00	12.89	Pass	Н	PK
	9	12008.6006	-5.30	54.87	49.57	54.00	4.43	Pass	Н	AV
	10	1188.2188	0.81	42.78	43.59	74.00	30.41	Pass	V	PK
	11	2133.1133	4.52	44.85	49.37	74.00	24.63	Pass	V	PK
·	12	4805.1203	-16.23	56.54	40.31	74.00	33.69	Pass	V	PK
·	13	7207.2805	-11.83	68.76	56.93	74.00	17.07	Pass	V	PK
	14	7208.2806	-11.83	57.80	45.97	54.00	8.03	Pass	V	AV
	15	9606.4404	-7.36	61.55	54.19	74.00	19.81	Pass	V	PK
4	16	9607.4405	-7.37	52.76	45.39	54.00	8.61	Pass	V	AV
2	17	12007.6005	-5.30	63.41	58.11	74.00	15.89	Pass	V	PK
	18	12008.6006	-5.30	53.34	48.04	54.00	5.96	Pass	V	AV



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Mod	Mode:			CESK Trai	nemitting		Channel:	-	2440 MHz	
Mod	⊌. 			GFSK Trai	instructing		Channel.		2440 10172	-
NO	Freq. [MHz]	Facto [dB]	F	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1245.2245	0.92		41.38	42.30	74.00	31.70	Pass	Н	PK
2	1825.0825	3.47		40.60	44.07	74.00	29.93	Pass	Н	PK
3	4881.1254	-16.21	1	59.14	42.93	74.00	31.07	Pass	Н	PK
4	7318.2879	-11.66	3	65.86	54.20	74.00	19.80	Pass	Н	PK
5	7322.2882	-11.65	5	54.98	43.33	54.00	10.67	Pass	Н	AV
6	9759.4506	-7.51		55.66	48.15	54.00	5.85	Pass	Н	AV
7	9760.4507	-7.51		66.78	59.27	74.00	14.73	Pass	Н	PK
8	12198.6132	-5.13		52.65	47.52	54.00	6.48	Pass	Н	PK
9	12202.6135	-5.14		63.58	58.44	74.00	15.56	Pass	Н	AV
10	1310.2310	1.09		41.31	42.40	74.00	31.60	Pass	V	PK
11	1999.5000	4.55		39.96	44.51	74.00	29.49	Pass	٧	PK
12	4881.1254	-16.21	1	58.17	41.96	74.00	32.04	Pass	V	PK
13	7318.2879	-11.66	3	65.62	53.96	74.00	20.04	Pass	V	PK
14	9759.4506	-7.51		53.32	45.81	54.00	8.19	Pass	V	AV
15	9762.4508	-7.50		64.11	56.61	74.00	17.39	Pass	V	PK
16	12198.6132	-5.13		50.95	45.82	54.00	8.18	Pass	V	AV
17	12202.6135	-5.14		62.37	57.23	74.00	16.77	Pass	V	PK

Mode	:	BI	E GFSK Trai	nsmitting		Channel:		2480 MHz	7
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1205.8206	0.82	41.93	42.75	74.00	31.25	Pass	Н	PK
2	2027.5028	4.64	40.17	44.81	74.00	29.19	Pass	Н	PK
3	7438.2959	-11.35	62.78	51.43	74.00	22.57	Pass	Н	PK
4	9922.4615	-7.11	51.76	44.65	54.00	9.35	Pass	Н	AV
5	9922.4615	-7.11	65.87	58.76	74.00	15.24	Pass	Н	PK
6	12402.6268	-4.69	52.41	47.72	54.00	6.28	Pass	Н	AV
7	12402.6268	-4.69	65.12	60.43	74.00	13.57	Pass	Н	PK
8	14883.7923	-0.56	56.25	55.69	74.00	18.31	Pass	Н	AV
9	14883.7923	-0.56	45.51	44.95	54.00	9.05	Pass	Н	AV
10	1161.2161	0.82	42.20	43.02	74.00	30.98	Pass	V	PK
11	2129.7130	4.56	45.93	50.49	74.00	23.51	Pass	V	PK
12	4258.0839	-17.56	63.26	45.70	74.00	28.30	Pass	V	PK
13	7441.2961	-11.34	64.61	53.27	74.00	20.73	Pass	V	PK
14	9919.4613	-7.10	51.52	44.42	54.00	9.58	Pass	V	AV
15	9922.4615	-7.11	62.50	55.39	74.00	18.61	Pass	V	PK
16	12397.6265	-4.71	61.69	56.98	74.00	17.02	Pass	V	PK
17	12403.6269	-4.70	50.34	45.64	54.00	8.36	Pass	V	AV



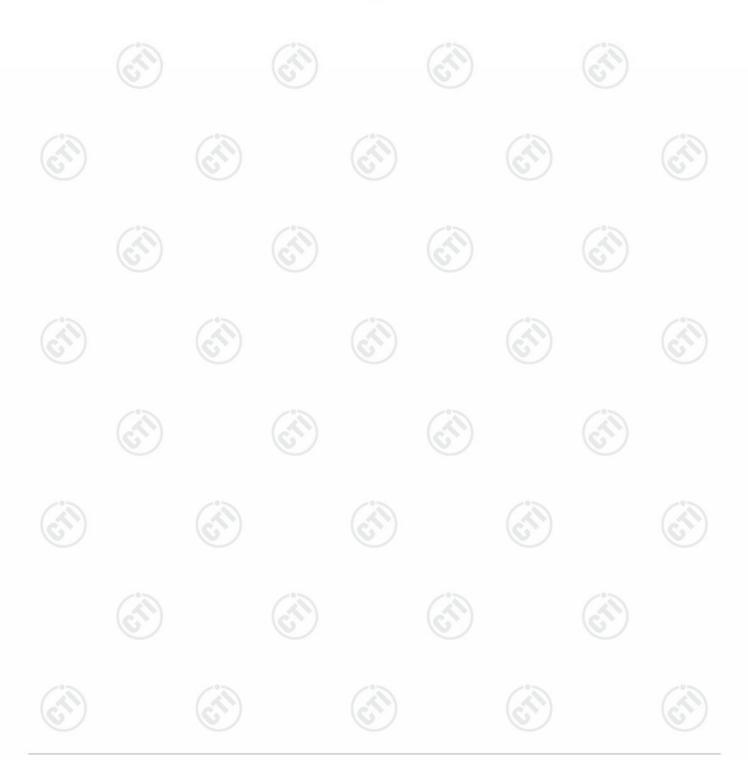
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Remark:

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.



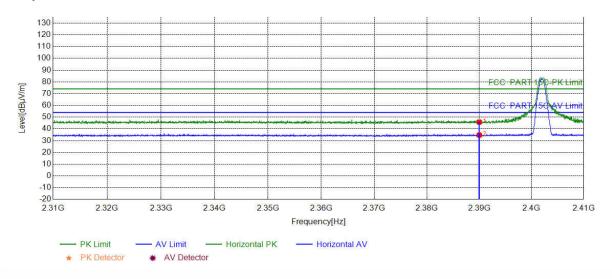




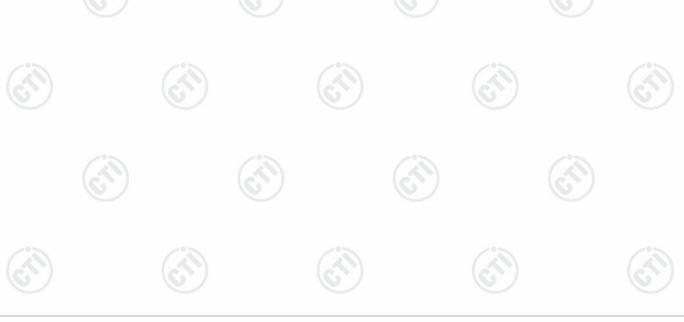
Restricted bands:

Test plot as follows:

Mode:	BLE GFSK Transmitting	Channel:	2402
Remark:	1M	(25)	(6



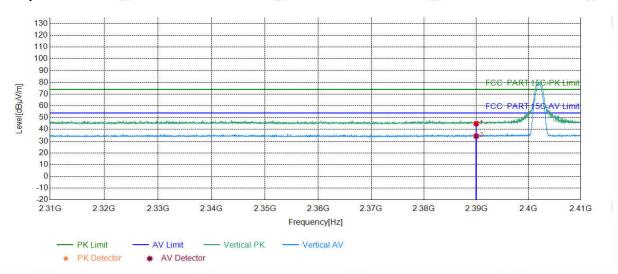
	Suspec	ted List								
3	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2390.0000	5.77	40.03	45.80	74.00	28.20	PASS	Horizontal	PK
Ī	2	2390.0000	5.77	28.99	34.76	54.00	19.24	PASS	Horizontal	AV



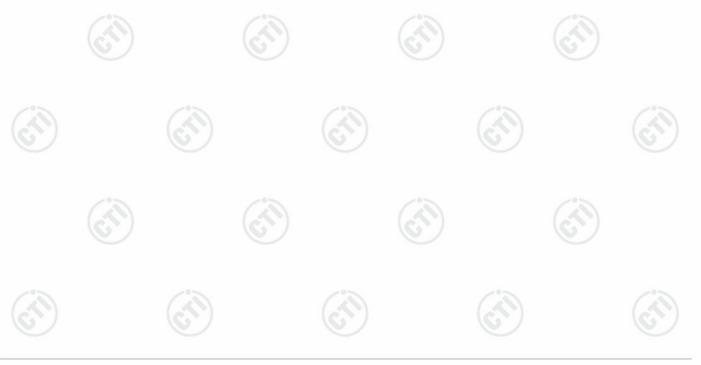


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Mode:	BLE GFSK Transmitting	Channel:	2402
Remark:	1M		



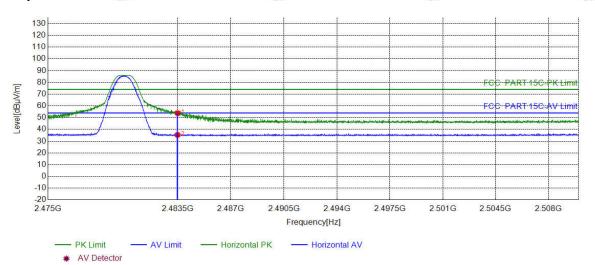
	Suspec	ted List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2390.0000	5.77	39.10	44.87	74.00	29.13	PASS	Vertical	PK
1	2	2390.0000	5.77	28.55	34.32	54.00	19.68	PASS	Vertical	AV



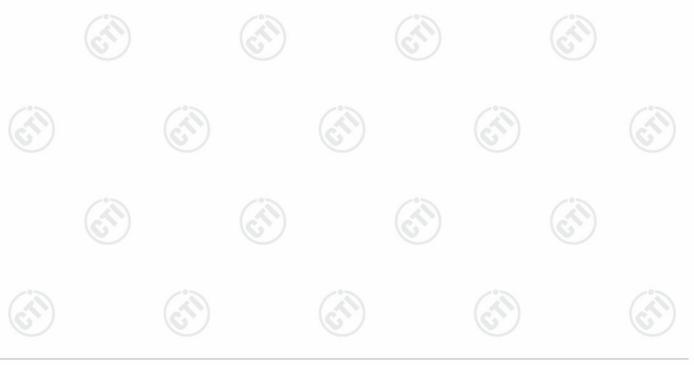


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Mode:	BLE GFSK Transmitting	Channel:	2480
Remark:	1M		



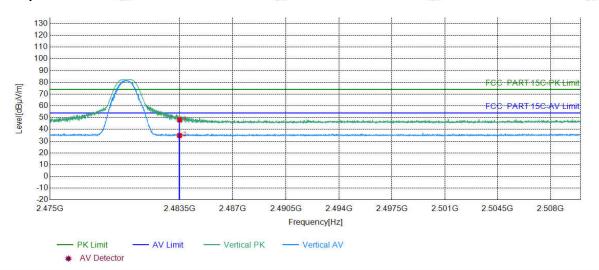
5	Suspected List											
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark		
	1	2483.5000	6.57	47.38	53.95	74.00	20.05	PASS	Horizontal	PK		
	2	2483.5000	6.57	28.74	35.31	54.00	18.69	PASS	Horizontal	AV		



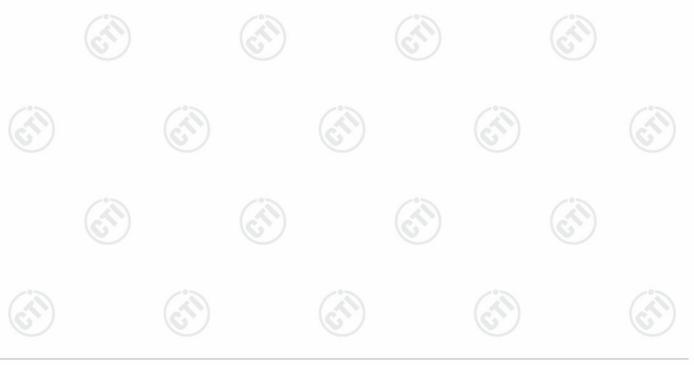


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Mode:	BLE GFSK Transmitting	Channel:	2480
Remark:	1M		



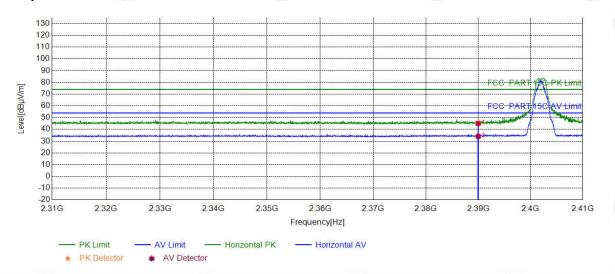
	Suspe	cted List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
Ī	1	2483.5000	6.57	41.55	48.12	74.00	25.88	PASS	Vertical	PK
1	2	2483.5000	6.57	28.25	34.82	54.00	19.18	PASS	Vertical	AV



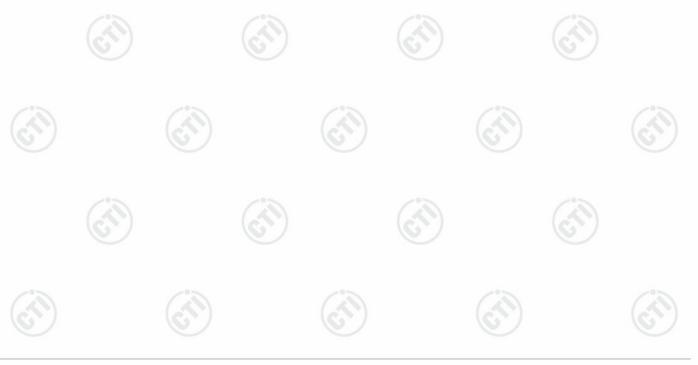


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Mode:	BLE GFSK Transmitting	Channel:	2402
Remark:	2M		



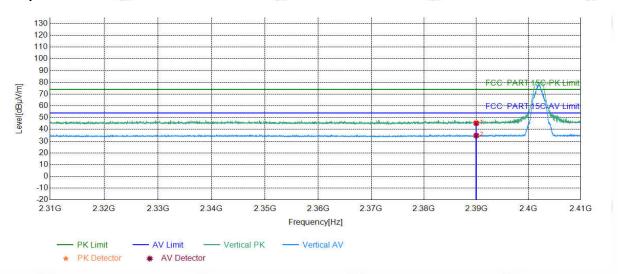
	Suspe	cted List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
Ī	1	2390.0000	5.77	39.34	45.11	74.00	28.89	PASS	Horizontal	PK
	2	2390.0000	5.77	28.31	34.08	54.00	19.92	PASS	Horizontal	AV



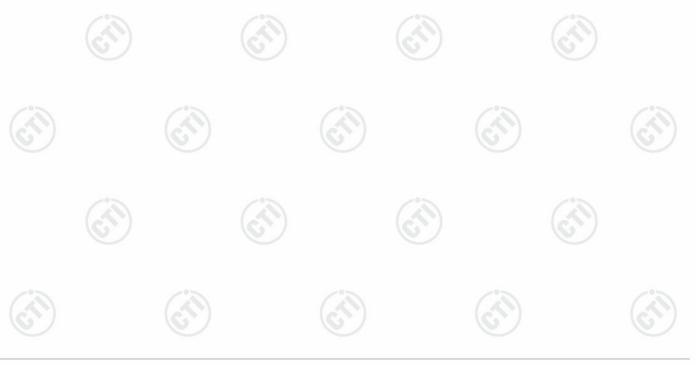


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Mode:	BLE GFSK Transmitting	Channel:	2402
Remark:	2M		



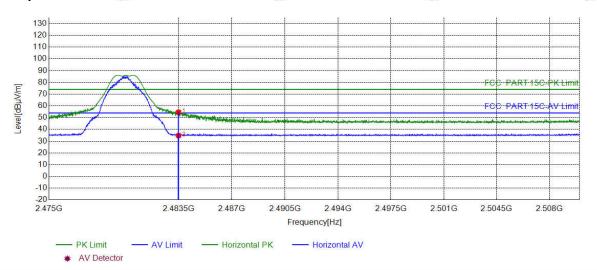
Suspec	ted List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	39.53	45.30	74.00	28.70	PASS	Vertical	PK
2	2390.0000	5.77	28.99	34.76	54.00	19.24	PASS	Vertical	AV



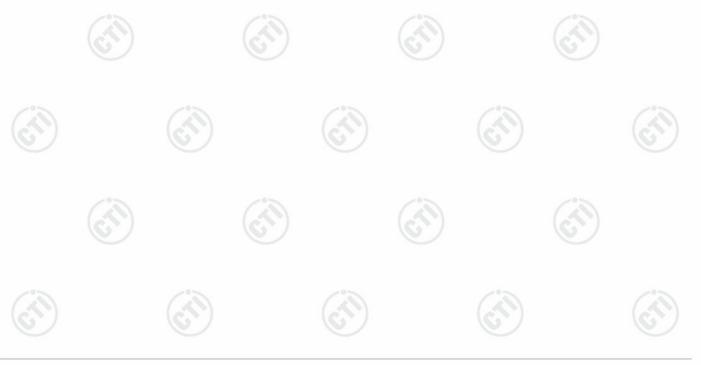


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Mode:	BLE GFSK Transmitting	Channel:	2480
Remark:	2M		



	Suspe	cted List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2483.5000	6.57	48.02	54.59	74.00	19.41	PASS	Horizontal	PK
1	2	2483.5000	6.57	28.18	34.75	54.00	19.25	PASS	Horizontal	AV

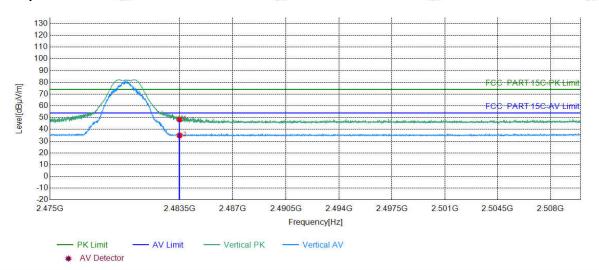




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Mode:	BLE GFSK Transmitting	Channel:	2480
Remark:	2M		

Test Graph



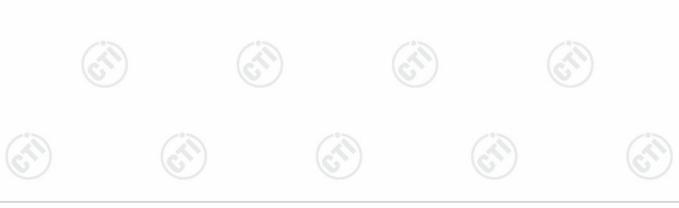
	Suspec	ted List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2483.5000	6.57	41.83	48.40	74.00	25.60	PASS	Vertical	PK
í	2	2483.5000	6.57	28.29	34.86	54.00	19.14	PASS	Vertical	AV

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







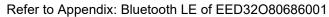


Appendix A





























































































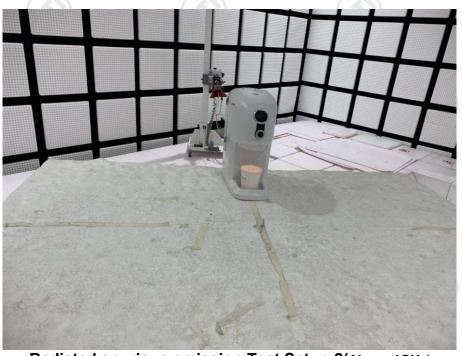
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9 PHOTOGRAPHS OF TEST SETUP

Test model No.: BRU100



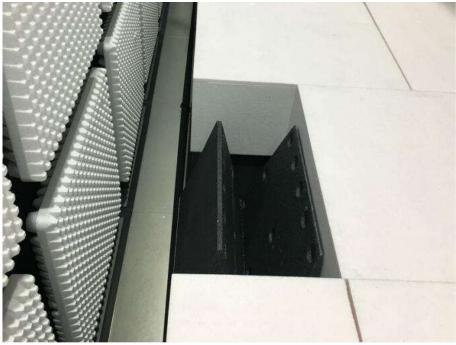
Radiated spurious emission Test Setup-1(Below 1GHz)



Radiated spurious emission Test Setup-2(Above 1GHz)



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Radiated spurious emission Test Setup-3(Above 1GHz) There are absorbing materials under the ground.



CONDUCTED EMISSION TEST SETUP













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10 PHOTOGRAPHS OF EUT Constructional Details

Test model No.: BRU100



View of Product-1



View of Product-2



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View of Product-3



View of Product-4













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View of Product-5



View of Product-6

Complaint call:0755-33681700





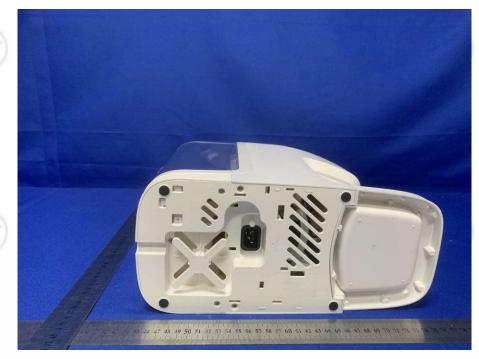








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View of Product-7



View of Product-8













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View of Product-9



View of Product-10





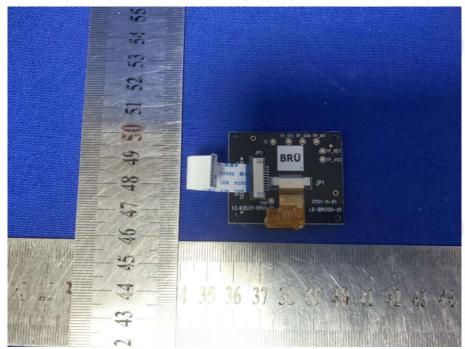




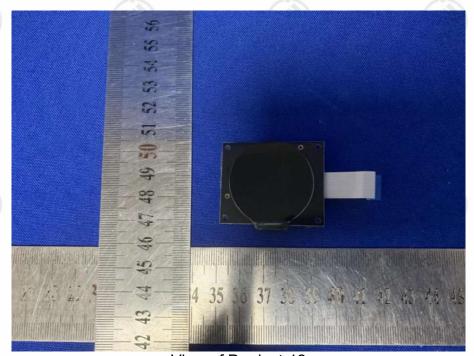




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View of Product-11



View of Product-12







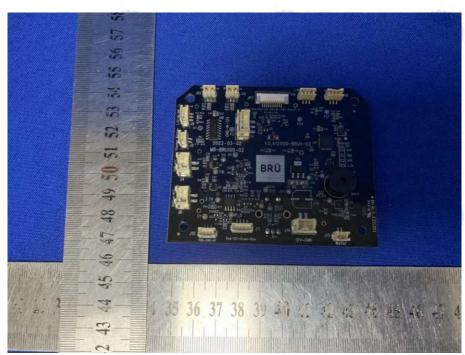




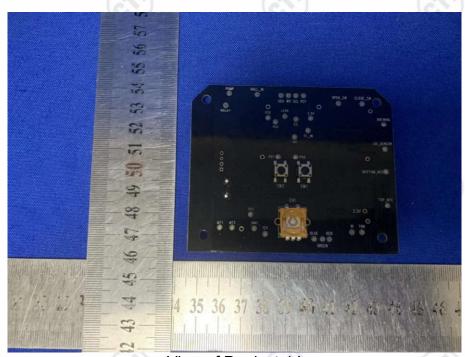


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View of Product-13



View of Product-14





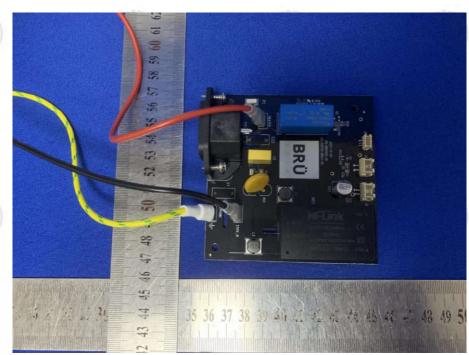




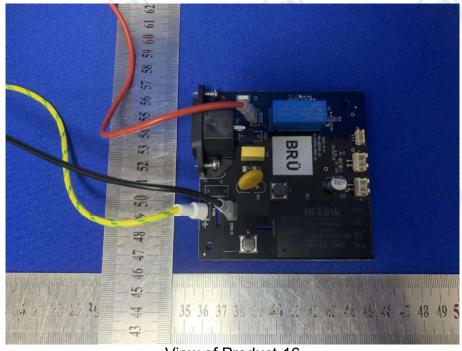




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View of Product-15



View of Product-16





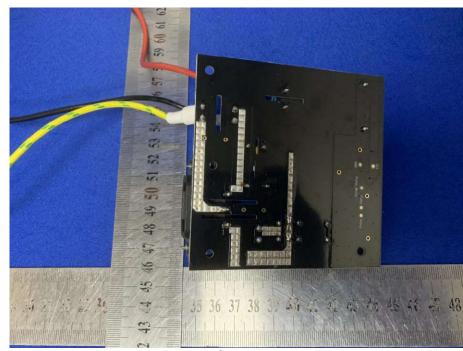








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View of Product-17



View of Product-18









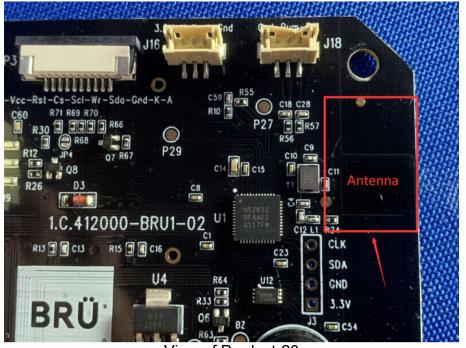




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View of Product-19



View of Product-20

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

*** End of Report ***