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Report Template Version: V04 Report Template Revision Date: 2018-07-06

PROV

# **TEST REPORT**

Report No.:	CQASZ20200700653E-01			
Applicant:	BRYDGE GLOBAL			
Address of Applicant:	1912 Sidewinder Dr#104, Park City, Utah United States 84060			
Equipment Under Test (E	UT):			
EUT Name:	Bluetooth Keyboard			
Model No.:	BRYTP401N			
Brand Name:	BRYDGE			
FCC ID:	2ADRG-BRYTP401N			
Standards:	47 CFR Part 15, Subpart C			
Date of Receipt:	2020-06-09			
Date of Test:	2020-06-09 to 2020-07-13			
Date of Issue:	2020-07-15			
Test Result:	PASS*			
*In the configuration tested, the EUT complied with the standards specified above				

Tested By:

Tom Char.

(Tom Chen)

Reviewed By:

Sheek, Luo

(Sheek Luo)

(Jack Ai)

Approved By:

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 CQA, this report can't be reproduced except in full.



## 1 Version

### **Revision History Of Report**

Report No.	Version	Description	Issue Date
CQASZ20200700653E-01	Rev.01	Initial report	2020-07-15



## 2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	ANSI C63.10 2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 2013	PASS
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(3)	ANSI C63.10 2013	PASS
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	ANSI C63.10 2013	PASS
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	ANSI C63.10 2013	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
Radiated Spurious Emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS



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## 4 General Information

### 4.1 Client Information

Applicant:	BRYDGE GLOBAL
Address of Applicant:	1912 Sidewinder Dr#104, Park City, Utah United States 84060
Manufacturer:	BRYDGE TECHNOLOGIES LLC
Address of Manufacturer:	1912 Sidewinder Dr#104, Park City, UT 84060 U.S.A
Factory:	DONGGUAN MAE TAY ELECTRONIC CO., LTD.
Address of Factory:	Beihuanlu Industrial Area, Changping Town, Dongguan, Guangdong, 523560, P.R.C.

## 4.2 General Description of EUT

Product Name:	Bluetooth Keyboard
Model No.:	BRYTP401N
Trade Mark:	BRYDGE
Hardware Version:	V1.1
Software Version:	V0.3
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V5.0
Modulation Type:	GFSK
Transfer Rate:	1Mbps
Number of Channel:	40
Product Type:	□ Mobile
Test Software of EUT:	nRFgo Studio (manufacturer declare)
Antenna Type:	PCB antenna
Antenna Gain:	1.87dBi
EUT Power Supply:	lithium battery: DC 3.85V, 900mAh, Charge by DC 5V



Operation F	Operation Frequency each of channel						
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



## 4.3 Additional Instructions

EUT Test Software Settings:					
Mode:	<ul> <li>Special software is used.</li> <li>Through engineering command into engineering command: *#*#3646633#</li> </ul>	☐ Through engineering command into the engineering mode.			
EUT Power level:	Class1 (Power level is built-in set para selected)				
Use test software to set the lowest frequency, the middle frequency and the highest frequency keep					
transmitting of the EUT.					
Mode	Channel	Frequency(MHz)			
	CH0 2402				
GFSK	GFSK CH19 2440				
	СН39	CH39 2480			

#### Run Software:

<u>File View n</u> RF8001 Setup <u>H</u> elp			
Features >	Direct Test Mode	UART interface	
<ul> <li>2.4 GHz</li> <li>Front-End Tests         <ul> <li>TX carrier wave output RX constant carrier/LO leak</li> <li>TX/RX channel sweep RX sensitivity</li> </ul> </li> <li>Bluetooth         <ul> <li>nRF8001 Configuration Dispatcher</li> <li>Trace Translator</li> <li>Direct Test Mode</li> </ul> </li> </ul>	Set up on Com port COM3 Mode (a) Transmit Channel (b) Single Channel	Program     Program     Refresh list of com ports     Receive     Sweep     19	
nRF8002	🚽 Payload model	Constant carrier	



### 4.4 Test Environment

25.7 °C 54 % RH 1009 mbar				
54 % RH				
1009 mbar				
25.3 °C				
52 % RH				
1009 mbar				
t (RF Conducted test room):				
28.0 °C				
69 % RH				
1009 mbar				
Test mode:				
Jse test software to set the lowest frequency, the middle frequency and he highest frequency keep transmitting of the EUT. Note: In the process of transmitting of EUT, the duty cycle >98%.				
5 1 1 1				

### 4.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) Support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
PC	Lenovo	ThinkPad E450c	FCC ID	CQA
Adapter	HUAWEI	LPL-C010050200Z	DOC	CQA
2) Cable				

Cable No.	Description	Manufacturer	Cable Type/Length	Supplied by
/	1	/		1



#### 4.6 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the **Shenzhen Huaxia Testing Technology Co., Ltd.** quality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

No.	Item	Uncertainty	Notes
1	Radiated Emission (Below 1GHz)	5.12dB	(1)
2	Radiated Emission (Above 1GHz)	4.60dB	(1)
3	Conducted Disturbance (0.15~30MHz)	3.34dB	(1)
4	Radio Frequency	3×10 <sup>-8</sup>	(1)
5	Duty cycle	0.6 %.	(1)
6	Occupied Bandwidth	1.1%	(1)
7	RF conducted power	0.86dB	(1)
8	RF power density	0.74	(1)
9	Conducted Spurious emissions	0.86dB	(1)
10	Temperature test	0.8°C	(1)
11	Humidity test	2.0%	(1)
12	Supply voltages	0.5 %.	(1)
13	Frequency Error	5.5 Hz	(1)

Hereafter the best measurement capability for CQA laboratory is reported:

(1)This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



### 4.7 Test Location

#### Shenzhen Huaxia Testing Technology Co., Ltd,

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

### 4.8 Test Facility

#### • A2LA (Certificate No. 4742.01)

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

#### • FCC Registration No.: 522263

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263

#### 4.9 Deviation from Standards

None.

#### 4.10Other Information Requested by the Customer

None.



## 4.11 Equipment List

					1
Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2019/10/25	2020/10/24
Spectrum analyzer	R&S	FSU26	CQA-038	2019/10/25	2020/10/24
Preamplifier	MITEQ	AMF-6D-02001800-29- 20P	CQA-036	2019/10/25	2020/10/24
Loop antenna	Schwarzbeck	FMZB1516	CQA-060	2019/10/21	2020/10/20
Bilog Antenna	R&S	HL562	CQA-011	2019/9/26	2020/9/25
Horn Antenna	R&S	HF906	CQA-012	2019/9/26	2020/9/25
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2019/9/25	2020/9/24
Coaxial Cable (Above 1GHz)	CQA	N/A	C007	2019/9/26	2020/9/25
Coaxial Cable (Below 1GHz)	CQA	N/A	C013	2019/9/26	2020/9/25
Antenna Connector	CQA	RFC-01	CQA-080	2019/9/26	2020/9/25
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2019/9/26	2020/9/25
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2019/9/26	2020/9/25
EMI Test Receiver	R&S	ESR7	CQA-005	2019/10/25	2020/10/24
LISN	R&S	ENV216	CQA-003	2019/10/23	2020/10/22
Coaxial cable	CQA	N/A	CQA-C009	2019/9/26	2020/9/25
DC power	KEYSIGHT	E3631A	CQA-028	2019/9/26	2020/9/25

Note:

The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.



## 5 Test results and Measurement Data

#### 5.1 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:



The antenna is PCB antenna. The best case gain of the antenna is 1.87dBi.

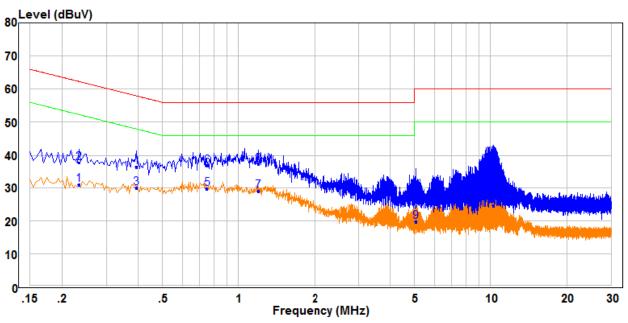


Test Requirement:	47 CFR Part 15C Section 15.	207		
Test Method:	ANSI C63.10: 2013			
Test Frequency Range Limit:				
	Frequency range (MHz)	Limit (c		
		Quasi-peak	Average	
	0.15-0.5	66 to 56*	56 to 46*	
	0.5-5	56	46	
	5-30	60	50	
	* Decreases with the logarithr	· · ·		
Test Procedure:	<ol> <li>The mains terminal disturbance voltage test was conducted in a shielded room.</li> <li>The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50µH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.</li> <li>The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.</li> <li>The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.</li> <li>In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to</li> </ol>			
Test Setup:	Shielding Room	AE USN2 AC Ma Ground Reference Plane	Test Receiver	
Test Mode:	Transmitting with GFSK modu	Ilation. Charge +Trans	smitting mode.	
Test Results:	Pass			



#### **Measurement Data**





		Read			Limit	0ver		
	Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase
-	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.234	21.32	9.49	30.81	52.31	-21.50	Average	Line
2	0.234	28.15	9.49	37.64	62.31	-24.67	QP	Line
3	0.394	20.45	9.51	29.96	47.98	-18.02	Average	Line
4	0.394	26.66	9.51	36.17	57.98	-21.81	QP	Line
5 PP	0.750	19.77	9.81	29.58	46.00	-16.42	Average	Line
6	0.750	26.83	9.81	36.64	56.00	-19.36	QP	Line
7	1.198	19.47	9.53	29.00	46.00	-17.00	Average	Line
8 QP	1.198	27.62	9.53	37.15	56.00	-18.85	QP	Line
9	5.058	9.99	9.74	19.73	50.00	-30.27	Average	Line
10	5.058	17.72	9.74	27.46	60.00	-32.54	QP	Line
11	10.245	14.87	9.82	24.69	50.00	-25.31	Average	Line
12	10.245	26.14	9.82	35.96	60.00	-24.04	QP	Line

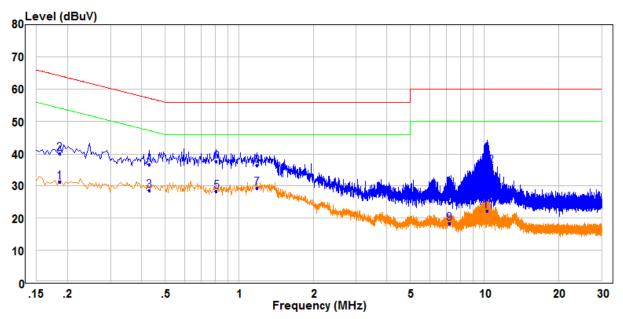
Remark:

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.



Neutral line:



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.186	21.75	9.48	31.23	54.21	-22.98	Average	Neutral
2	0.186	30.75	9.48	40.23	64.21	-23.98	QP	Neutral
3	0.430	19.01	9.56	28.57	47.25	-18.68	Average	Neutral
4	0.430	26.85	9.56	36.41	57.25	-20.84	QP	Neutral
5	0.806	18.48	9.80	28.28	46.00	-17.72	Average	Neutral
6 QP	0.806	27.63	9.80	37.43	56.00	-18.57	QP	Neutral
7 PP	1.178	19.39	9.72	29.11	46.00	-16.89	Average	Neutral
8	1.178	26.61	9.72	36.33	56.00	-19.67	QP	Neutral
9	7.194	8.50	9.79	18.29	50.00	-31.71	Average	Neutral
10	7.194	14.82	9.79	24.61	60.00	-35.39	QP	Neutral
11	10.289	12.27	9.95	22.22	50.00	-27.78	Average	Neutral
12	10.289	26.27	9.95	36.22	60.00	-23.78	QP	Neutral

Remark:

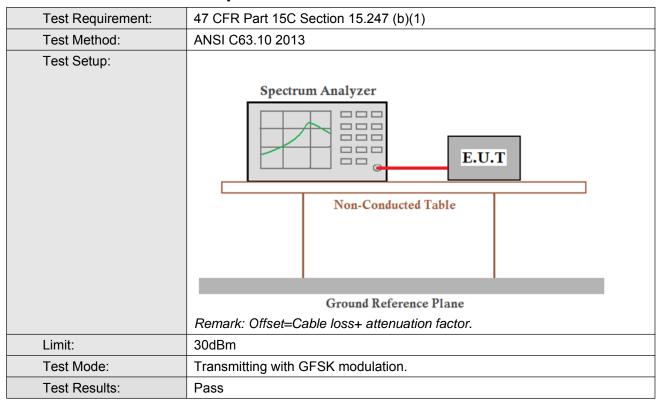
1. The following Quasi-Peak and Average measurements were performed on the EUT:

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.



### 5.3 Conducted Peak Output Power

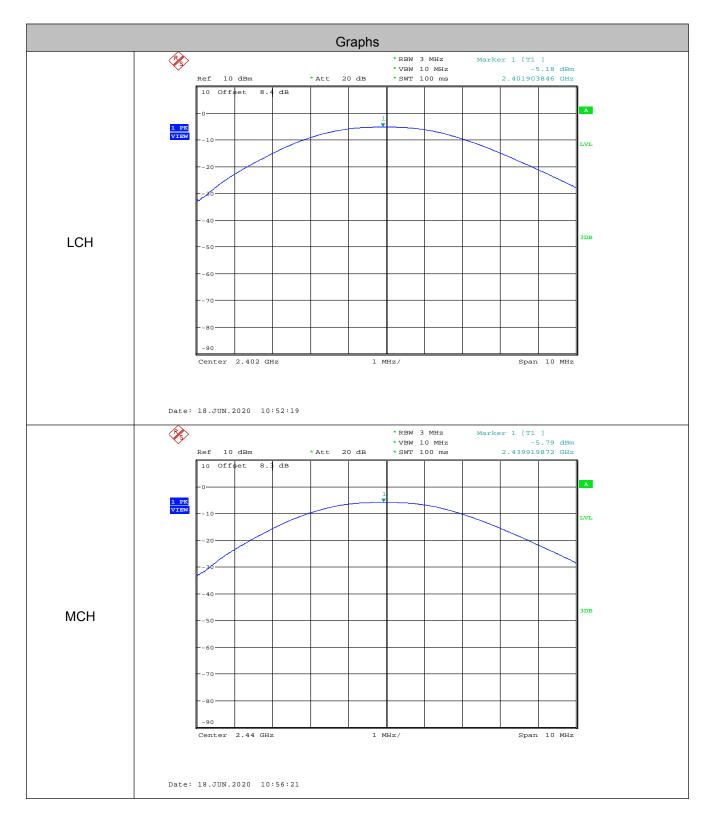


#### Measurement Data

GFSK mode				
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result	
Lowest	-5.18	30.00	Pass	
Middle	-5.79	30.00	Pass	
Highest	-5.5	30.00	Pass	



#### Test plot as follows:

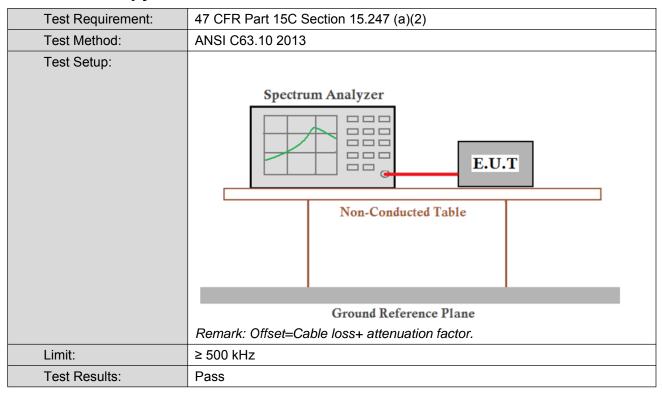








### 5.4 6dB Occupy Bandwidth

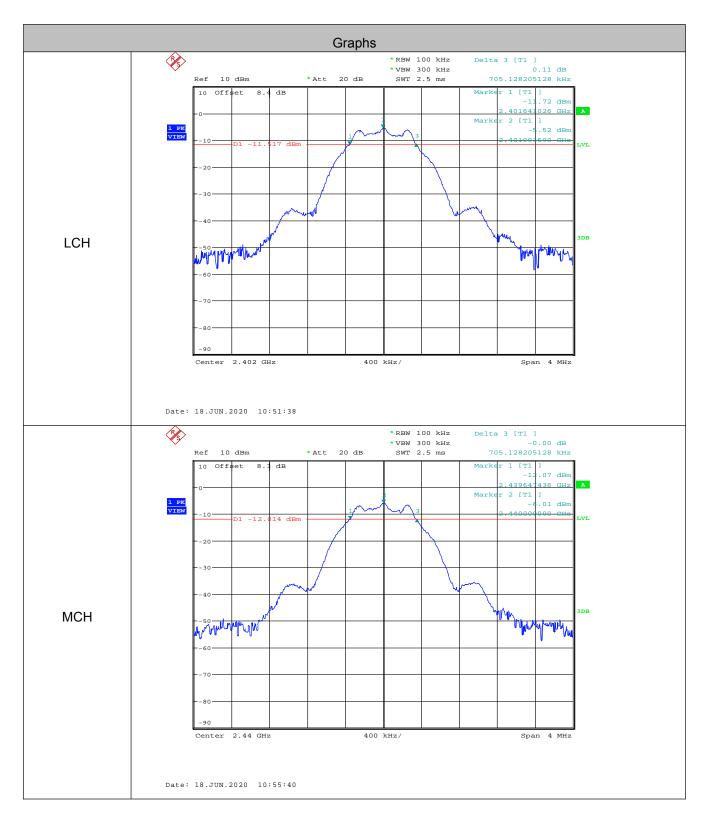


#### **Measurement Data**

	GFSK mode		
Test channel	6dB Occupy Bandwidth (MHz)	Limit (MHz)	Result
Lowest	0.705	≥0.5	Pass
Middle	0.705	≥0.5	Pass
Highest	0.692	≥0.5	Pass



#### Test plot as follows:

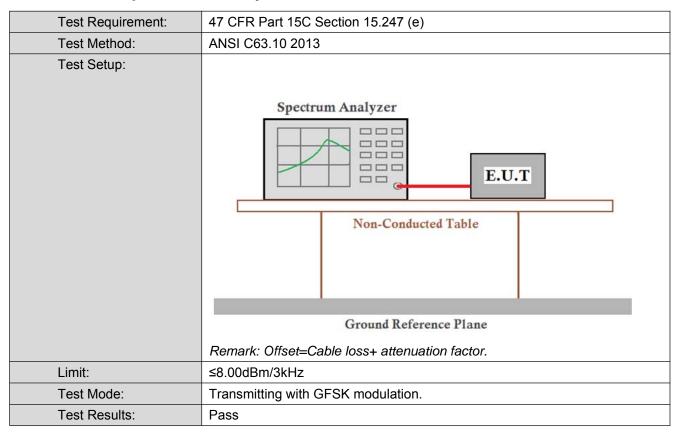








### 5.5 Power Spectral Density

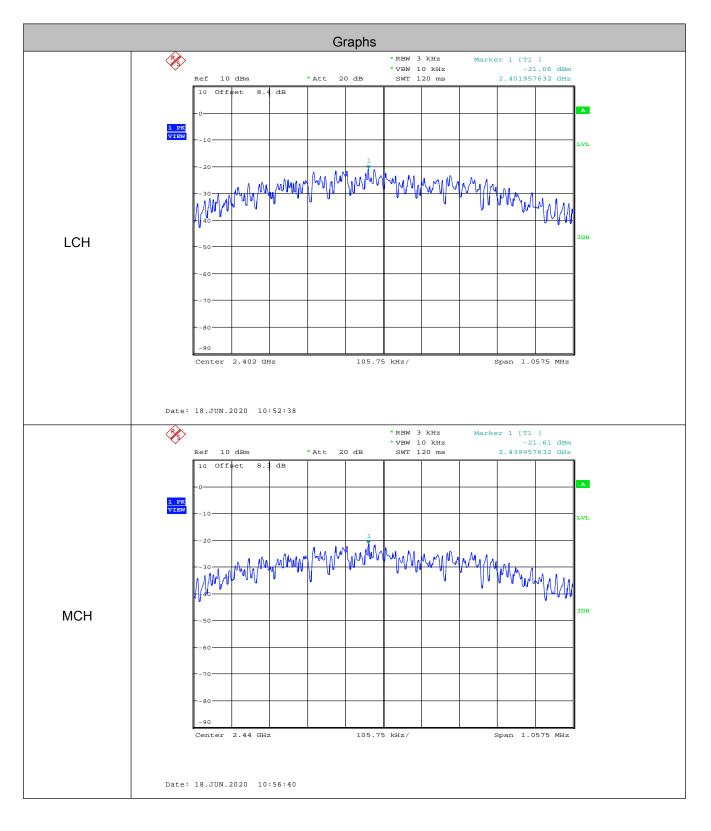


#### **Measurement Data**

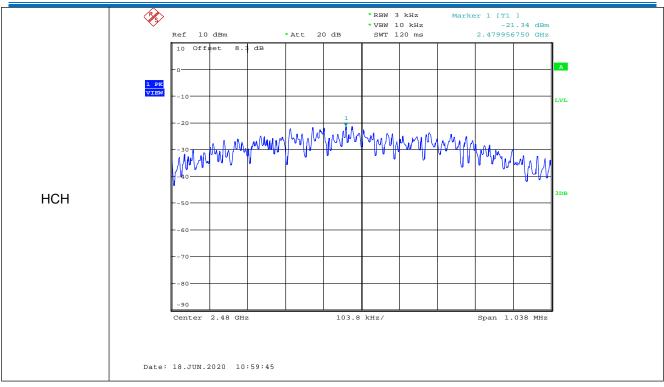
	GFSK mode		
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Lowest	-21.060	≤8.00	Pass
Middle	-21.610	≤8.00	Pass
Highest	-21.340	≤8.00	Pass



#### Test plot as follows:

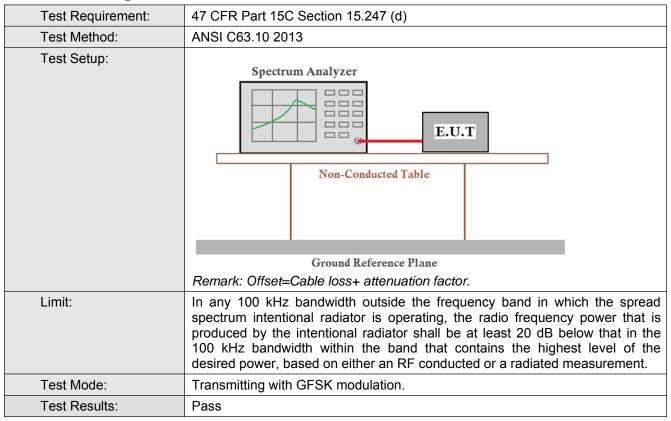








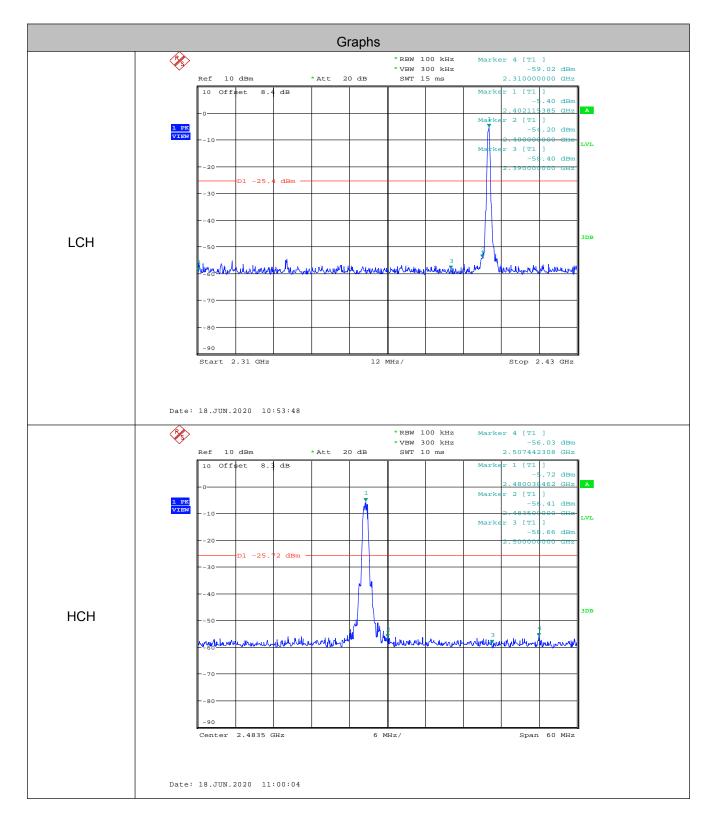
### 5.6 Band-edge for RF Conducted Emissions



GFSK mode				
Test				
channel	Frequency(MHz)	Emission Level(dBm)	Limit(dBm)	Result
Lowest	2400	-54.200	-25.4	Pass
LOwesi	2400	-54.200	-20.4	rass
Highest	2483.5	-56.410	-25.72	Pass



#### Test plot as follows:



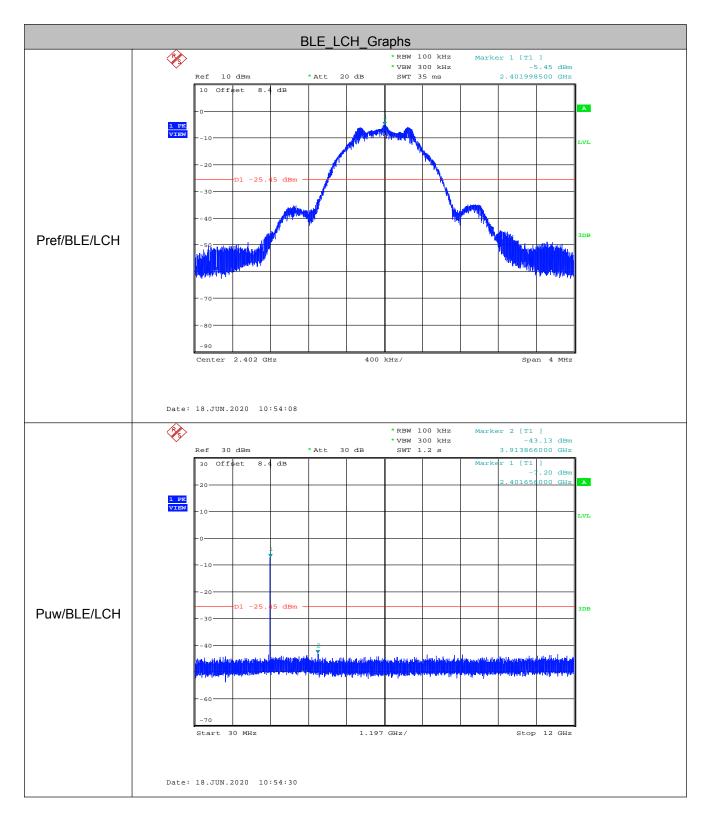


### 5.7 Spurious RF Conducted Emissions

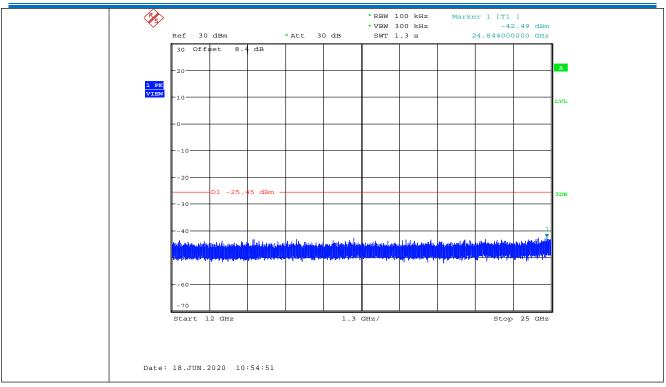
Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10 2013
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
	Remark: Offset=Cable loss+ attenuation factor.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional 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:	Transmitting with GFSK modulation.
Test Results:	Pass

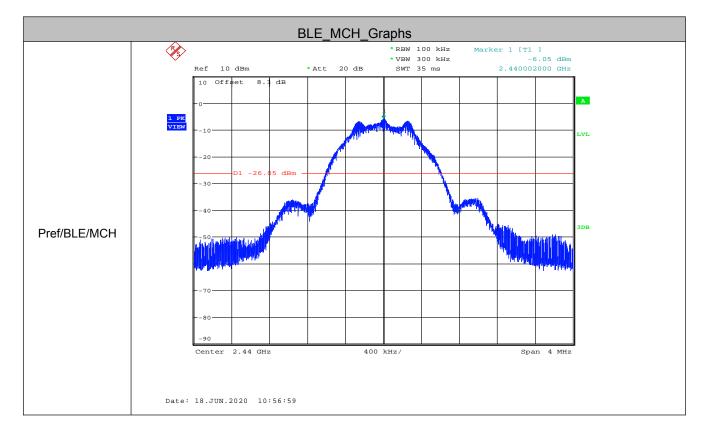


#### Test plot as follows:

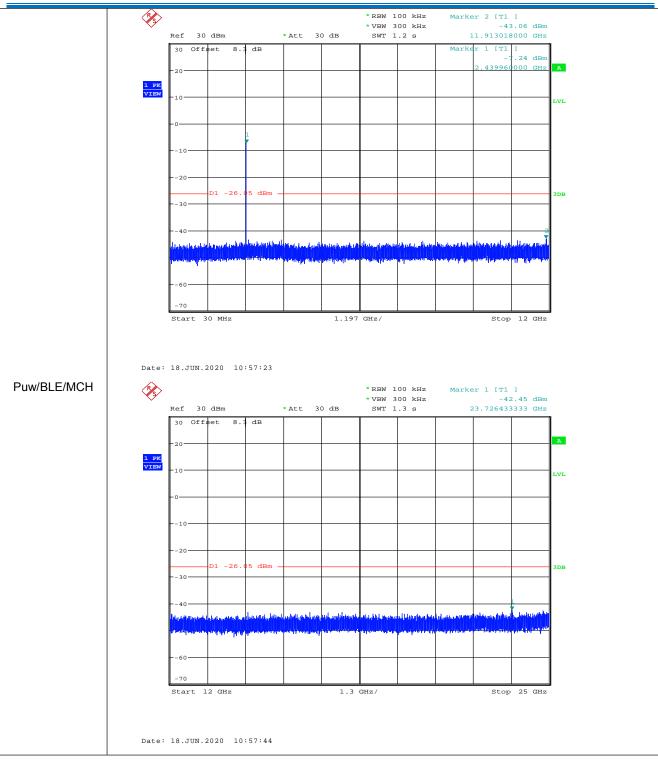




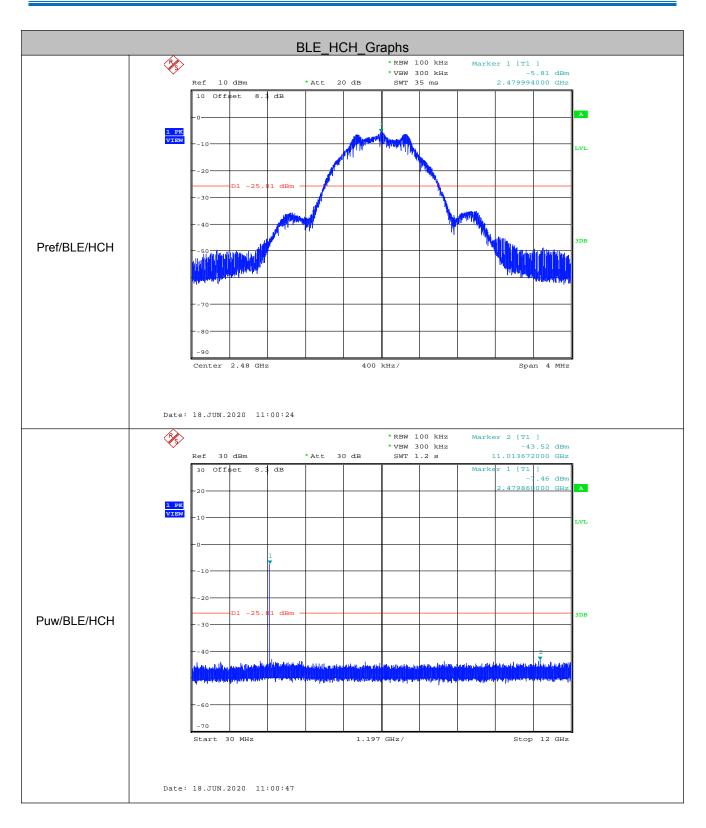






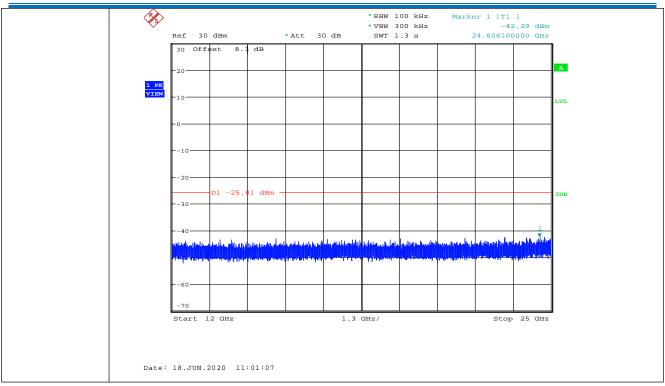








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#### Remark:

Pretest 9kHz to 25GHz, find the highest point when testing, so only the worst data were shown in the test report. Per FCC Part 15.33 (a) and 15.31 (o) ,The amplitude of spurious emissions from intentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this part.

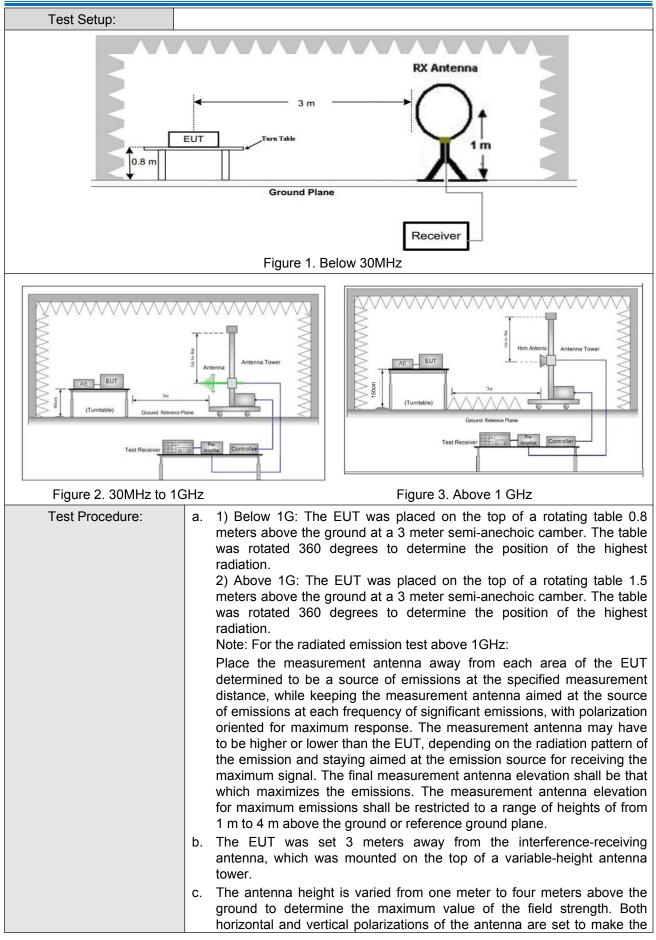


### 5.8 Radiated Spurious Emission & Restricted bands

### 5.8.1 Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10 2013							
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)							
Receiver Setup:	Frequency Detector			RBW	RBW VBW		Remark	]
	0.009MHz-0.090MH	z	Peak	10kHz	10kHz 30kHz		Peak	1
	0.009MHz-0.090MH	z	Average	10kHz	z 30k	Hz	Average	1
	0.090MHz-0.110MH	z	Quasi-peak	10kHz	10kHz 30kHz		Quasi-peak	1
	0.110MHz-0.490MH	z	Peak	10kHz	10kHz 30kHz		Peak	1
	0.110MHz-0.490MH	z	Average	10kHz	z 30k	Hz	Average	1
	0.490MHz -30MHz Quasi-peak 30MHz-1GHz Quasi-peak		10kHz	z 30k	Hz	Quasi-peak	k	
			Quasi-peak	100 k⊢	lz 300ł	κΗz	Quasi-peak	
			Peak	1MHz	: 3M	Hz	Peak	
	Above 1GHz		Peak	1MHz	: 10H	Ηz	Average	
Limit:	Frequency	Field strength (microvolt/meter)		Limit (dBuV/m)	Remark		Measureme distance (r	
	0.009MHz-0.490MHz	2	400/F(kHz)	-	-		300	
	0.490MHz-1.705MHz	24	4000/F(kHz)	-			30	
	1.705MHz-30MHz		30	-	-		30	
	30MHz-88MHz		100	40.0	Quasi-peak		3	
	88MHz-216MHz	6MHz-960MHz200960MHz-1GHz500		43.5	Quasi-peak Quasi-peak Quasi-peak		3	
	216MHz-960MHz			46.0			3	
	960MHz-1GHz			54.0			3	
	Above 1GHz			54.0	Average		3	
	Note: 15.35(b), Unless otherwise specified, the limit on peak radii frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.							n

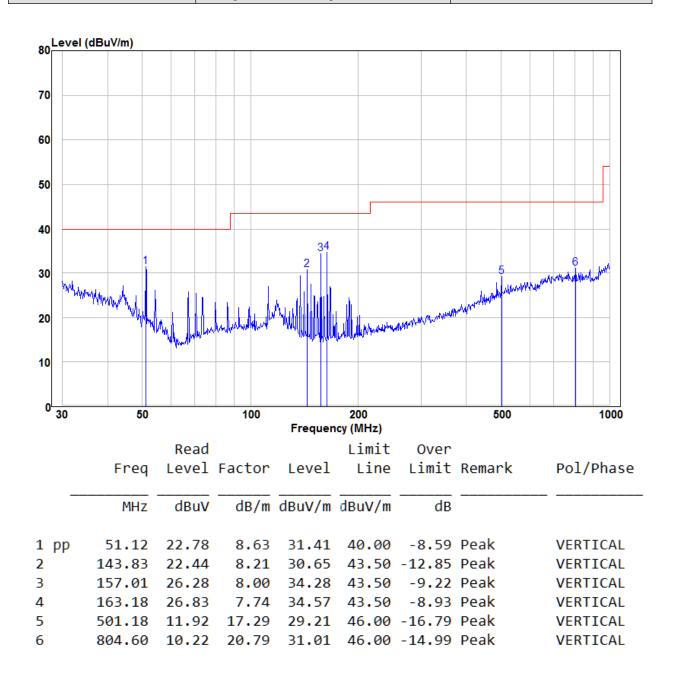




	<ul> <li>measurement.</li> <li>d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees 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> <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 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 for Transmitting mode, and found the X axis positioning which it is the</li> </ul>
	<ul><li>worst case.</li><li>Repeat above procedures until all frequencies measured was complete.</li></ul>
Exploratory Test Mode:	Transmitting with GFSK modulation.
	Transmitting mode, Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation.
	Pretest the EUT at Transmitting mode and Charge + Transmitting mode, found the Charge + Transmitting mode which it is worse case.
	For below 1GHz part, through pre-scan, the worst case is the lowest channel.
	Only the worst case is recorded in the report.
Toot Booulto:	
Test Results:	Pass



Radiated Emission below 1GHz							
30MHz~1GHz, the worst case							
Test mode:	Charge + Transmitting mode	Vertical					





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#### 30MHz~1GHz, the worst case

Test mode:

1 pp

2

3

4

5

6

30.64

64.43

163.18

341.98

721.73

10.08

18.10

22.73

10.33

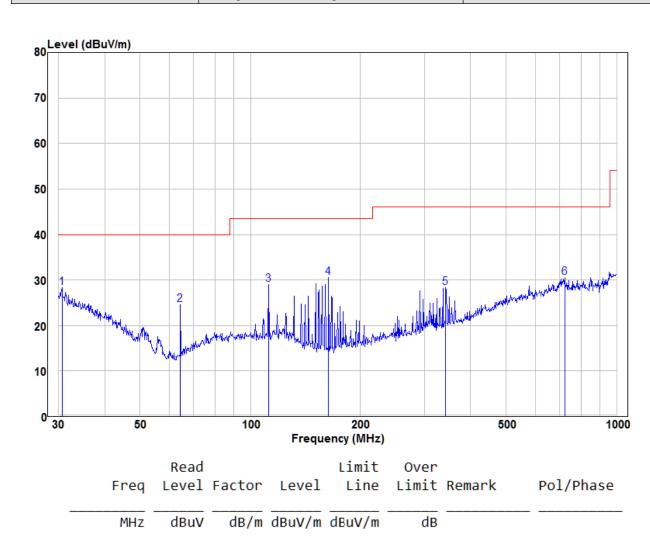
18.18

20.23

111.74 18.75 10.27 29.02 43.50 -14.48 Peak

Charge + Transmitting mode

Horizontal



28.26 40.00 -11.74 Peak

30.56 46.00 -15.44 Peak

6.41 24.51 40.00 -15.49 Peak

7.74 30.47 43.50 -13.03 Peak

15.51 12.76 28.27 46.00 -17.73 Peak



#### Transmitter Emission above 1GHz

Worse case m	ode:	GFSK		Test chann	el:	Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
2390	53.76	-9.2	44.56	74	-29.44	Peak	н
2400	54.36	-9.39	44.97	74	-29.03	Peak	н
4804	52.73	-4.33	48.4	74	-25.6	Peak	н
7206	48.31	1.01	49.32	74	-24.68	Peak	н
2390	55.06	-9.2	45.86	74	-28.14	Peak	v
2400	51.34	-9.39	41.95	74	-32.05	Peak	V
4804	52.92	-4.33	48.59	74	-25.41	Peak	V
7206	49.71	1.01	50.72	74	-23.28	Peak	V

Worse case m	ode:	GFSK		Test chann	el:	Middle	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
4880	51.34	-4.11	47.23	74	-26.77	peak	Н
7320	50.09	1.51	51.6	74	-22.4	peak	н
4880	52.59	-4.11	48.48	74	-25.52	peak	V
7320	51.14	1.51	52.65	74	-21.35	peak	V

Worse case m	ode:	GFSK		Test chann	el:	Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
2483.5	55.85	-9.29	46.56	74	-27.44	Peak	н
4960	51.41	-4.04	47.37	74	-26.63	Peak	н
7440	50.27	1.57	51.84	74	-22.16	Peak	н
2483.5	57.26	-9.29	47.97	74	-26.03	Peak	v
4960	51.51	-4.04	47.47	74	-26.53	Peak	V
7440	50.13	1.57	51.7	74	-22.3	Peak	V

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.

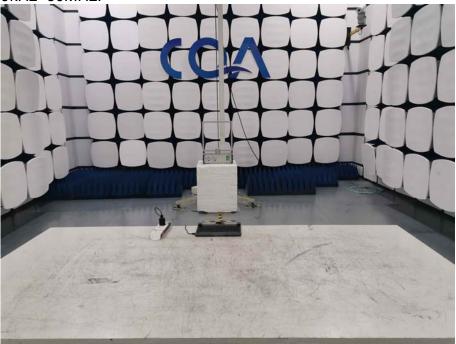




## 6 Photographs - EUT Test Setup

## 6.1 Radiated Spurious Emission

9kHz~30MHz:









### 6.2 Conducted Emission







## 7 Photographs - EUT Constructional Details

Test Model No.: BRYTP401N

















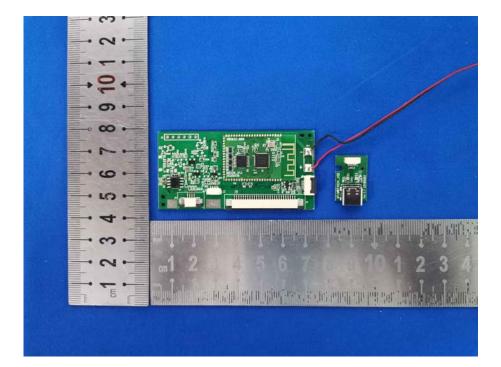




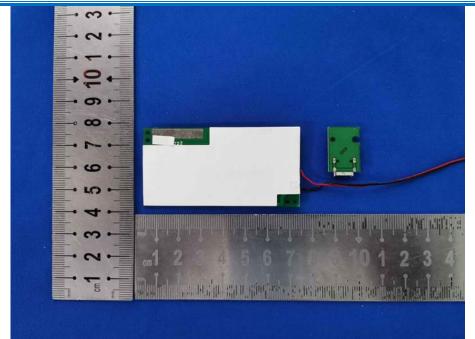


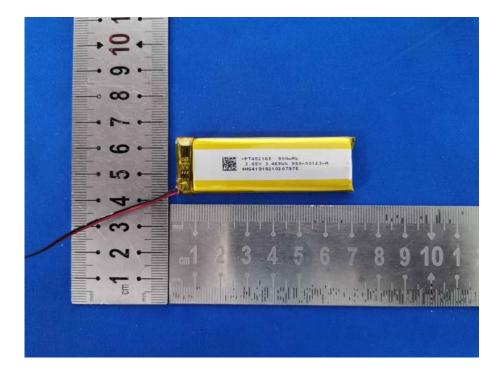














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The End