



Report No.: SZEM190901859402

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## TEST REPORT

**Application No.:** SZEM1909018594CR **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: Bei Huan Rd Industrial Area Chang Ping Town Dongguan Guangdong

523560 P.R.C.

**Equipment Under Test (EUT):** 

**EUT Name:** BRYDGE C-TOUCH

Model No.: BRY2301, BRY2302, BRY2303 ♣

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

Trade mark: BRYDGE

FCC ID: 2ADRG-BRY230

Standard(s): 47 CFR Part 15, Subpart C 15.247

**Date of Receipt:** 2019-09-17

**Date of Test:** 2019-09-25 to 2019-10-12

**Date of Issue:** 2019-10-16

Test Result: Pass\*

Keny Xu EMC Laboratory Manager



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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Revision Record					
Version Chapter Date Modifier Remark					
01		2019-10-16		Original	

Authorized for issue by:		
	leo. 61	
	Leo Li /Project Engineer	
	EvicFu	
	Eric Fu /Reviewer	



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## **Test Summary**

Radio Spectrum Technical Requirement						
Item Standard Method Requirement Result						
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass		

Radio Spectrum Matter Part							
Item	Standard	Method	Requirement	Result			
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass			
Minimum 6dB	47 CFR Part 15,	ANSI C63.10 (2013)	47 CFR Part 15, Subpart	Pass			
Bandwidth	Subpart C 15.247	Section 11.8.1	C 15.247a(2)				
Conducted Peak	47 CFR Part 15,	ANSI C63.10 (2013)	47 CFR Part 15, Subpart	Pass			
Output Power	Subpart C 15.247	Section 11.9.1	C 15.247(b)(3)				
Power Spectrum  Density	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass			
Conducted Band	47 CFR Part 15,	ANSI C63.10 (2013)	47 CFR Part 15, Subpart	Pass			
Edges Measurement	Subpart C 15.247	Section 11.13.3.2	C 15.247(d)				
Conducted Spurious	47 CFR Part 15,	ANSI C63.10 (2013)	47 CFR Part 15, Subpart	Pass			
Emissions	Subpart C 15.247	Section 11.11	C 15.247(d)				
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass			
Radiated Spurious	47 CFR Part 15,	ANSI C63.10 (2013)	47 CFR Part 15, Subpart	Pass			
Emissions	Subpart C 15.247	Section 6.4,6.5,6.6	C 15.205 & 15.209				

#### **Declaration of EUT Family Grouping:**

Model No.: BRY2301, BRY2302, BRY2303

Only the model BRY2301 was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on model name and color.



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## **General Information**

#### Details of E.U.T.

Power supply:	Lithium Ion Battery: 3.7V 1200mAh rechargeable battery which charged by USB port
Cable:	Type C cable: 50cm shielded
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V4.2 LE
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	PCB Antenna
Antenna Gain:	1.87dBi

## 4.2 Description of Support Units

The EUT has been tested as an independent unit.

#### 4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	± 7.25 x 10 <sup>-8</sup>
2	Occupied Bandwidth	± 3%
3	Conduction emission	± 3.0dB (150kHz to 30MHz)
4	RF conducted power	± 0.75dB
5	RF power density	± 2.84dB
6	Conducted Spurious emissions	± 0.75dB
7	Dedicted Couries a principal test	± 4.5dB (Below 1GHz)
/	Radiated Spurious emission test	± 4.8dB (Above 1GHz)
8	Temperature test	± 1 ℃
9	Humidity test	± 3%
10	Supply voltages	± 1.5%
11	Time	± 3%



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#### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

#### 4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### • CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

#### A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

#### VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

#### FCC –Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

#### Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

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IC#: 4620C.

#### 4.6 Deviation from Standards

#### **Abnormalities from Standard Conditions** 4.7

None



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## **Equipment List**

Conducted Emissions at AC Power Line (150kHz-30MHz)							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2019-06-13	2022-06-12		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM024-01	2019-07-11	2020-07-10		
LISN	Rohde & Schwarz	ENV216	SEM007-01	2019-09-24	2020-09-23		
LISN	ETS-LINDGREN	3816/2	SEM007-02	2019-04-01	2020-03-31		
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2019-04-01	2020-03-31		

Minimum 6dB Bandwidth						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12	
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23	
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23	
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10	
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A	
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23	
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23	
Electric and Magnetic Field Analyzer	Narda	NBM- 550/EHP-50F	EMC2143	2018-02-07	2020-02-06	
Electric Field Probe (100KHz-3GHz)	WANDEL & GOLTERMANN	EMR-20	EMC0907	2019-05-21	2020-05-20	
EMF Tester	Narda	ELT-400	SZE039-4	2019-07-08	2020-07-07	

Conducted Peak Output Power							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12		
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23		
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23		
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10		
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A		
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23		
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23		
Electric and Magnetic Field Analyzer	Narda	NBM- 550/EHP-50F	EMC2143	2018-02-07	2020-02-06		



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Electric Field Probe (100KHz-3GHz)	WANDEL & GOLTERMANN	EMR-20	EMC0907	2019-05-21	2020-05-20
EMF Tester	Narda	ELT-400	SZE039-4	2019-07-08	2020-07-07

Power Spectrum Density										
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date					
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12					
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23					
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23					
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A					
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10					
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A					
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23					
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23					
Electric and Magnetic Field Analyzer	Narda	NBM- 550/EHP-50F	EMC2143	2018-02-07	2020-02-06					
Electric Field Probe (100KHz-3GHz)	WANDEL & GOLTERMANN	EMR-20	EMC0907	2019-05-21	2020-05-20					
EMF Tester	,		SZE039-4	2019-07-08	2020-07-07					

Conducted Band Edges Measurement										
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date					
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12					
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23					
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23					
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A					
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10					
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A					
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23					
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23					
Electric and Magnetic Field Analyzer	Narda	NBM- 550/EHP-50F	EMC2143	2018-02-07	2020-02-06					
Electric Field Probe (100KHz-3GHz)	WANDEL & GOLTERMANN	EMR-20	EMC0907	2019-05-21	2020-05-20					
EMF Tester	Narda	ELT-400	SZE039-4	2019-07-08	2020-07-07					

Conducted Spurious Emissions										
Equipment	Cal Date	Cal Due Date								
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12					
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23					



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Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23
Electric and Magnetic Field Analyzer	Narda	NBM- 550/EHP-50F	EMC2143	2018-02-07	2020-02-06
Electric Field Probe (100KHz-3GHz)	WANDEL & GOLTERMANN	EMR-20	EMC0907	2019-05-21	2020-05-20
EMF Tester	Narda	ELT-400	SZE039-4	2019-07-08	2020-07-07

Radiated Emissions which fall in the restricted bands									
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date				
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12				
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A				
Coaxial Cable	SGS	N/A	SEM026-01	2019-07-11	2020-07-10				
EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-12	2019-04-12	2020-04-11				
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12				
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16				
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23				
Pre-amplifier (18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2019-04-01	2020-03-31				
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2019-04-01	2020-03-31				
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23				
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21				

Radiated Spurious Emissions (Above 1GHz)										
Equipment Manufacturer Model No Inventory No Cal Date Cal Due										
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12					
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A					



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Coaxial Cable	SGS	N/A	SEM026-01	2019-07-11	2020-07-10
EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-12	2019-04-12	2020-04-11
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23
Pre-amplifier (18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2019-04-01	2020-03-31
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2019-04-01	2020-03-31
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21

Radiated Spurious Emissions (Below 1GHz)										
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date					
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017-08-05	2020-08-04					
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2019-09-24	2020-09-23					
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017-06-27	2020-06-26					
Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2019-04-01	2020-03-31					
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A					
Coaxial Cable	SGS	N/A	SEM025-01	2019-07-11	2020-07-10					



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General used equipment									
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date				
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2019-09-26	2020-09-25				
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2019-09-26	2020-09-25				
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2019-09-26	2020-09-25				
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2019-04-04	2020-04-03				



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#### Radio Spectrum Technical Requirement 6

#### Antenna Requirement

#### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

#### 6.1.2 Conclusion

Standard 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 integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 1.87dBi.

Antenna location: Refer to Internal photos



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#### 7 **Radio Spectrum Matter Test Results**

#### 7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

47 CFR Part 15, Subpart C 15.207 Test Requirement Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Fraguency of emission/MH=)	Conducted limit(dBµV)						
Frequency of emission(MHz)	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 logarithm of the frequency.							



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#### 7.1.1 E.U.T. Operation

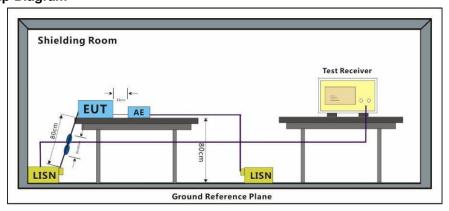
Operating Environment:

Temperature: Humidity: 52.1 % RH Atmospheric Pressure: 1015 mbar

Test mode: c:Charge + TX mode Keep the EUT in charging and continuously transmitting

mode with GFSK modulation.

#### 7.1.2 Test Setup Diagram



#### 7.1.3 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50µH + 5ohm 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.
- 3) 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,
- 4) 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 was bonded to the horizontal 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.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: LISN=Read Level+ Cable Loss+ LISN Factor



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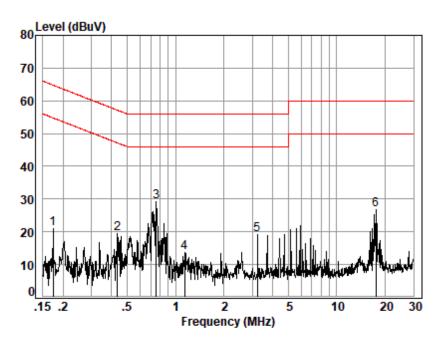
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Mode:c; Line:Live Line



: Shielding Room

Condition: Line Job No. : 18594CR

Test mode: c

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.17	0.02	9.66	11.45	21.13	54.77	-33.64	Peak
2	0.44	0.05	9.67	9.75	19.47	47.15	-27.68	Peak
3	0.76	0.08	9.72	19.31	29.11	46.00	-16.89	Peak
4	1.14	0.10	9.73	3.82	13.65	46.00	-32.35	Peak
5	3.22	0.16	9.71	9.40	19.27	46.00	-26.73	Peak
6	17.57	0.23	10.19	16.49	26.91	50.00	-23.09	Peak



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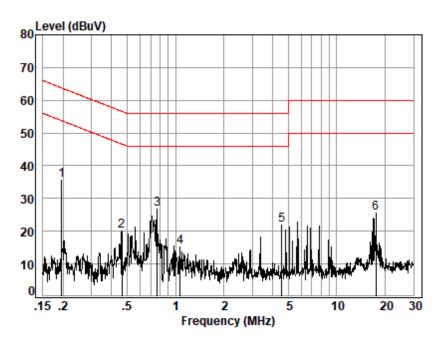
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Mode:c; Line:Neutral Line



: Shielding Room

Condition: Neutral Job No. : 18594CR

Test mode: c

	Freq		LISN Factor			Limit Line		Remark
	MHz	dB	——dB	dBuV	dBuV	dBuV	——dB	
1	0.20	0.02	9.64	25.93	35.59	53.80	-18.21	Peak
2	0.46	0.06	9.64	10.46	20.16	46.63	-26.47	Peak
3	0.77	0.08	9.69	17.03	26.80	46.00	-19.20	Peak
4	1.07	0.10	9.71	5.25	15.06	46.00	-30.94	Peak
5	4.55	0.17	9.70	12.06	21.93	46.00	-24.07	Peak
6	17 57	0 23	10 23	15 03	25 49	50 00	-24 51	Peak



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#### 7.2 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2) ANSI C63.10 (2013) Section 11.8.1 Test Method:

Limit: ≥500 kHz

#### 7.2.1 E.U.T. Operation

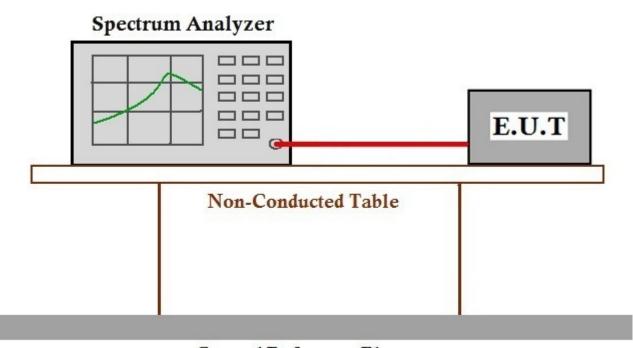
Operating Environment:

Temperature: 29.3 °C Humidity: 36.7 % RH Atmospheric Pressure: 1015 mbar

Test mode b:TX mode Keep the EUT in continuously transmitting mode with GFSK

modulation

#### 7.2.2 Test Setup Diagram



#### Ground Reference Plane

#### 7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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#### 7.3 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3) Test Method: ANSI C63.10 (2013) Section 11.9.1

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
	1 for ≥50 hopping channels
902-928	0.25 for 25≤ hopping channels <50
	1 for digital modulation
	1 for ≥75 non-overlapping hopping channels
2400-2483.5	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation



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#### 7.3.1 E.U.T. Operation

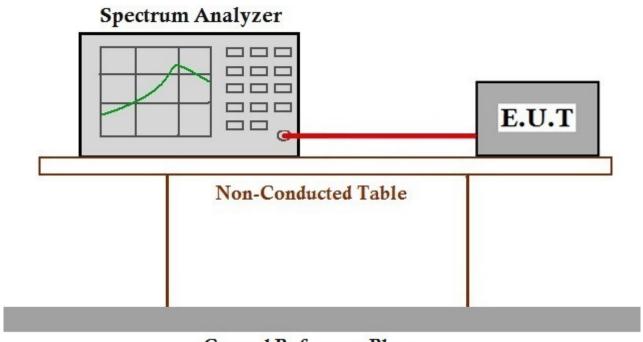
Operating Environment:

Temperature: 29.3 °C Humidity: 36.7 % RH Atmospheric Pressure: 1015 mbar

Test mode b:TX mode Keep the EUT in continuously transmitting mode with GFSK

modulation

#### 7.3.2 Test Setup Diagram



## Ground Reference Plane

#### 7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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#### 7.4 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e) Test Method: ANSI C63.10 (2013) Section 11.10.2

Limit: ≤8dBm in any 3 kHz band during any time interval of continuous

transmission

#### 7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 29.3 °C Humidity: 36.8 % RH Atmospheric Pressure: 1015 mbar

Test mode b:TX mode Keep the EUT in continuously transmitting mode with GFSK

#### 7.4.2 Test Setup Diagram

# Spectrum Analyzer E.U.T Non-Conducted Table

#### Ground Reference Plane

#### 7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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#### 7.5 Conducted Band Edges Measurement

**Test Requirement** 47 CFR Part 15, Subpart C 15.247(d) Test Method: ANSI C63.10 (2013) Section 11.13.3.2

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)



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#### 7.5.1 E.U.T. Operation

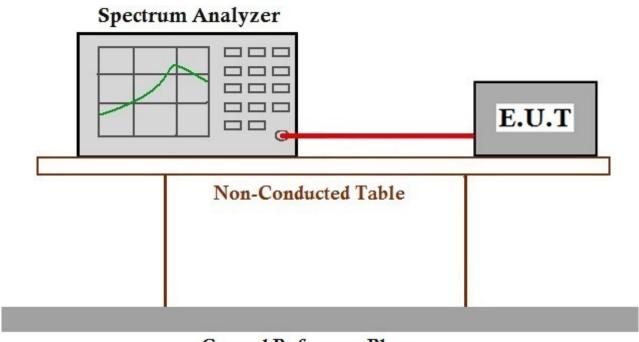
Operating Environment:

Temperature: 29.3 °C Humidity: 36.8 % RH Atmospheric Pressure: 1015 mbar

Test mode b:TX mode Keep the EUT in continuously transmitting mode with GFSK

modulation

#### 7.5.2 Test Setup Diagram



## Ground Reference Plane

#### 7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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#### 7.6 Conducted Spurious Emissions

**Test Requirement** 47 CFR Part 15, Subpart C 15.247(d) Test Method: ANSI C63.10 (2013) Section 11.11

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)



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#### 7.6.1 E.U.T. Operation

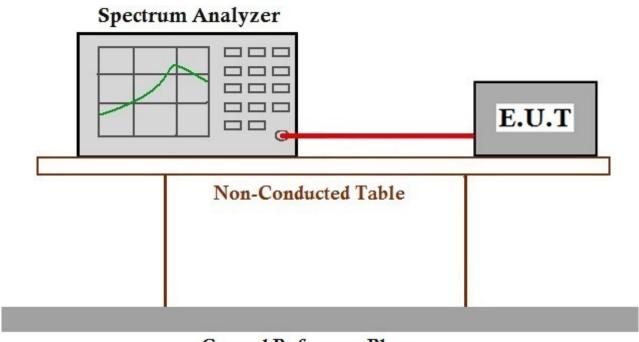
Operating Environment:

Temperature: 29.3 °C Humidity: 36.8 % RH Atmospheric Pressure: 1015 mbar

Test mode b:TX mode Keep the EUT in continuously transmitting mode with GFSK

modulation

#### 7.6.2 Test Setup Diagram



## Ground Reference Plane

#### 7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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#### 7.7 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.10.5

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.



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#### 7.7.1 E.U.T. Operation

Operating Environment:

20.7 °C 58.4 % RH Temperature: Humidity: Atmospheric Pressure: 1015 mbar

b:TX mode\_Keep the EUT in continuously transmitting mode with GFSK Pretest these

modes to find modulation

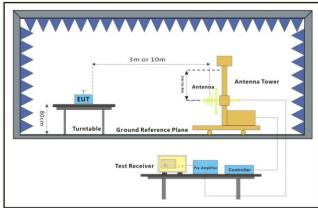
the worst case: c:Charge + TX mode Keep the EUT in charging and continuously transmitting

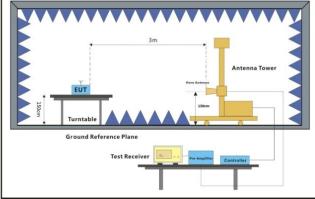
mode with GFSK modulation.

The worst case c:Charge + TX mode\_Keep the EUT in charging and continuously transmitting

mode with GFSK modulation. for final test:

#### 7.7.2 Test Setup Diagram





Above 1GHz 30MHz-1GHz



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#### 7.7.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. 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.
- e. 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.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- a. 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.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. 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.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: 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. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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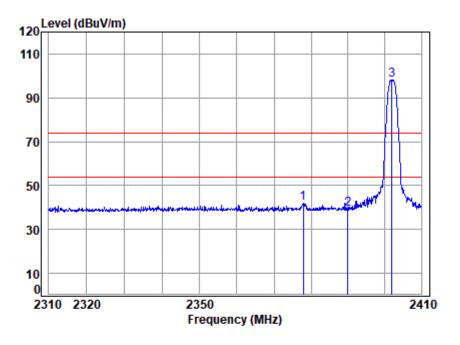
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Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 18594CR

Mode : 2402 Band edge

Note : BLF

OLC		_								
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
_										
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2377.941	5.46	28.50	41.17	49.13	41.92	74.00	-32.08	peak	
2	2390.000	5.47	28.52	41.17	46.36	39.18	74.00	-34.82	peak	
3 *	2402.000	5.49	28.54	41.18	105.15	98.00	74.00	24.00	peak	



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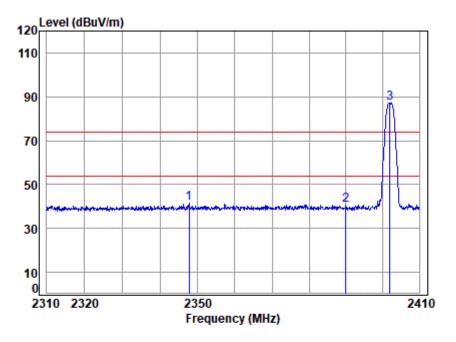
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Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Site : chamber Condition: 3m VERTICAL Job No : 18594CR

Mode : 2402 Band edge

Note : BLF

,,,		_								
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2347.701	5.42	28.45	41.15	48.71	41.43	74.00	-32.57	peak	
2	2390.000	5.47	28.52	41.17	47.57	40.39	74.00	-33.61	peak	
3 *	2402 000	5 49	28 54	41 18	94 22	87 97	74 00	13 07	neak	



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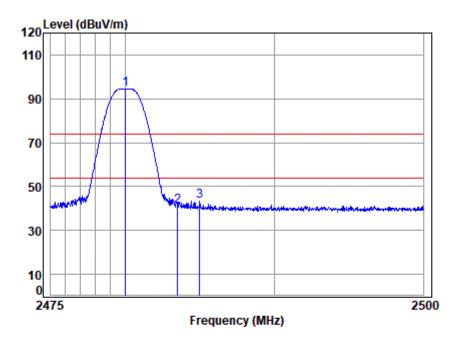
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Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 18594CR

Mode : 2480 Band edge

Note : BLF

OLC		_								
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 *	2480.000	5.59	28.67	41.21	101.60	94.65	74.00	20.65	peak	
2	2483.500	5.60	28.67	41.21	48.07	41.13	74.00	-32.87	peak	
3	2484.970	5.60	28.68	41.21	50.43	43.50	74.00	-30.50	peak	



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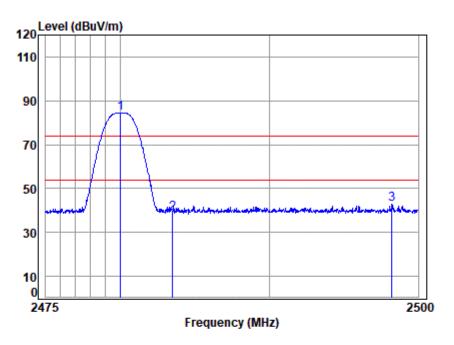
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Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 18594CR

Mode : 2480 Band edge

Note : BLE

0.00									
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	2480.000	5.59	28.67	41.21	91.29	84.34	74.00	10.34	peak
2	2483.500	5.60	28.67	41.21	45.93	38.99	74.00	-35.01	peak
3	2498.217	5.62	28.70	41.22	49.69	42.79	74.00	-31.21	peak



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#### 7.8 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.





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#### 7.8.1 E.U.T. Operation

Operating Environment:

Humidity: 51 Temperature: % RH Atmospheric Pressure: 1015 mbar

b:TX mode Keep the EUT in continuously transmitting mode with GFSK Pretest these

modes to find modulation

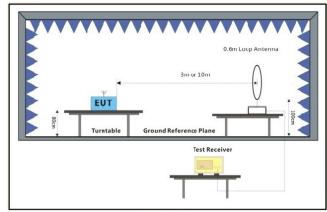
the worst case: c:Charge + TX mode Keep the EUT in charging and continuously transmitting

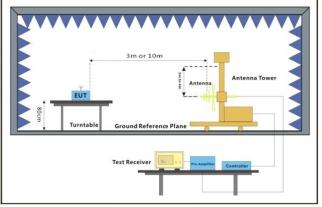
mode with GFSK modulation.

The worst case c:Charge + TX mode\_Keep the EUT in charging and continuously transmitting

for final test: mode with GFSK modulation.

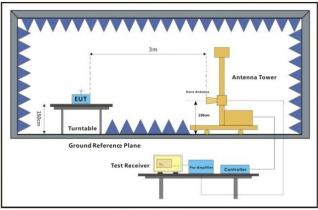
#### 7.8.2 Test Setup Diagram





Below 30MHz

30MHz-1GHz



Above 1GHz



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#### 7.8.3 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. 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.
- e. 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.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- a. 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.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. 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.
- j. Repeat above procedures until all frequencies measured was complete.

#### Remark:

- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) 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

- 3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 4) 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. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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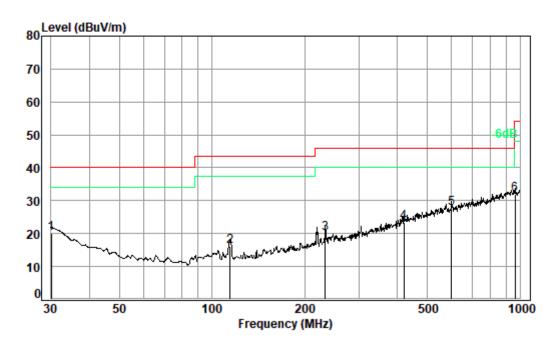
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30MHz~1GHz

QP value:

Mode: c; Polarization: Horizontal



Condition: 3m HORIZONTAL

: 18594CR Job No.

Test mode: c

		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
_						<del></del>		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	20 11	0.60	22 44	27 45	24 20	10.07	40.00	20.02
1	30.11	0.00	22.44	27.45	24.50	19.97	40.00	-20.03
2	114.51	1.24	13.33	27.26	28.91	16.22	43.50	-27.28
3	233.35	1.59	18.28	26.80	27.15	20.22	46.00	-25.78
4	419.11	2.28	22.86	27.27	25.67	23.54	46.00	-22.46
5 pp	599.32	2.70	26.59	27.95	26.37	27.71	46.00	-18.29
6	965.54	3.67	30.13	26.70	24.70	31.80	54.00	-22.20



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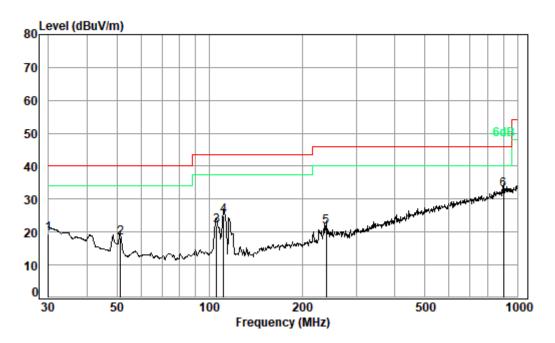
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Mode: c; Polarization: Vertical



Condition: 3m VERTICAL Job No. : 18594CR

Test mode: c

	_			Preamp				
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.00	0.60	22.50	27.45	23.88	19.53	40.00	-20.47
2	51.30	0.80	14.06	27.41	30.85	18.30	40.00	-21.70
3	105.64	1.22	13.73	27.31	34.34	21.98	43.50	-21.52
4	111.35	1.23	13.47	27.28	37.59	25.01	43.50	-18.49
5	239.15	1.62	18.73	26.79	27.97	21.53	46.00	-24.47
6 pp	900.15	3.60	29.80	27.05	26.36	32.71	46.00	-13.29



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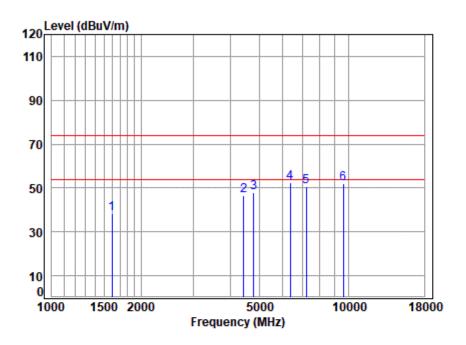


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Above 1GHz

Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 18594CR Job No

Mode : 2402 TX RSE

Note : BLE

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1597.181	5.35	26.24	40.77	47.32	38.14	74.00	-35.86	peak
2	4430.628	7.48	33.60	43.23	48.61	46.46	74.00	-27.54	peak
3	4804.000	7.89	34.16	43.61	49.62	48.06	74.00	-25.94	peak
4	6377.195	11.31	35.00	42.51	48.66	52.46	74.00	-21.54	peak
5	7206.000	10.08	36.42	41.86	46.23	50.87	74.00	-23.13	peak
6	9608,000	10.75	37.52	38.43	42.16	52.00	74.00	-22.00	neak



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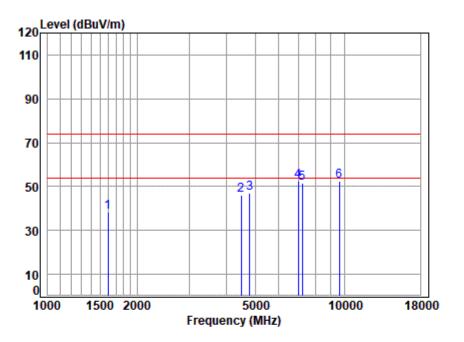
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Report No.: SZEM190901859402

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Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 18594CR Mode : 2402 TX RSE

Note : BLE

	_							
	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1597.181	5.35	26.24	40.77	47.34	38.16	74.00	-35.84	peak
4482.150	7.54	33.60	43.29	48.37	46.22	74.00	-27.78	peak
4804.000	7.89	34.16	43.61	48.49	46.93	74.00	-27.07	peak
6995.172	10.14	36.49	42.01	47.98	52.60	74.00	-21.40	peak
7206.000	10.08	36.42	41.86	46.88	51.52	74.00	-22.48	peak
9608.000	10.75	37.52	38.43	42.42	52.26	74.00	-21.74	peak
	MHz 1597.181 4482.150 4804.000 6995.172 7206.000	Freq Loss  MHz dB  1597.181 5.35 4482.150 7.54 4804.000 7.89 6995.172 10.14 7206.000 10.08	Freq         Loss         Factor           MHz         dB         dB/m           1597.181         5.35         26.24           4482.150         7.54         33.60           4804.000         7.89         34.16           6995.172         10.14         36.49           7206.000         10.08         36.42	Freq         Loss         Factor         Factor           MHz         dB         dB/m         dB           1597.181         5.35         26.24         40.77           4482.150         7.54         33.60         43.29           4804.000         7.89         34.16         43.61           6995.172         10.14         36.49         42.01           7206.000         10.08         36.42         41.86	Freq         Loss Factor Factor         Level           MHz         dB         dB/m         dB         dBuV           1597.181         5.35         26.24         40.77         47.34           4482.150         7.54         33.60         43.29         48.37           4804.000         7.89         34.16         43.61         48.49           6995.172         10.14         36.49         42.01         47.98           7206.000         10.08         36.42         41.86         46.88	Freq         Loss         Factor         Factor         Level         Level           MHz         dB         dB/m         dB         dBuV         dBuV/m           1597.181         5.35         26.24         40.77         47.34         38.16           4482.150         7.54         33.60         43.29         48.37         46.22           4804.000         7.89         34.16         43.61         48.49         46.93           6995.172         10.14         36.49         42.01         47.98         52.60           7206.000         10.08         36.42         41.86         46.88         51.52	Freq         Loss         Factor         Factor         Level         Level         Line           MHz         dB         dB/m         dB         dBuV         dBuV/m         dBuV/m           1597.181         5.35         26.24         40.77         47.34         38.16         74.00           4482.150         7.54         33.60         43.29         48.37         46.22         74.00           4804.000         7.89         34.16         43.61         48.49         46.93         74.00           6995.172         10.14         36.49         42.01         47.98         52.60         74.00           7206.000         10.08         36.42         41.86         46.88         51.52         74.00	Cable Ant Preamp Read Limit Over Loss Factor Factor Level Level Line Limit  MHz dB dB/m dB dBuV dBuV/m dBuV/m dBuV/m dB  1597.181 5.35 26.24 40.77 47.34 38.16 74.00 -35.84 4482.150 7.54 33.60 43.29 48.37 46.22 74.00 -27.78 4804.000 7.89 34.16 43.61 48.49 46.93 74.00 -27.07 6995.172 10.14 36.49 42.01 47.98 52.60 74.00 -21.40 7206.000 10.08 36.42 41.86 46.88 51.52 74.00 -22.48 9608.000 10.75 37.52 38.43 42.42 52.26 74.00 -21.74



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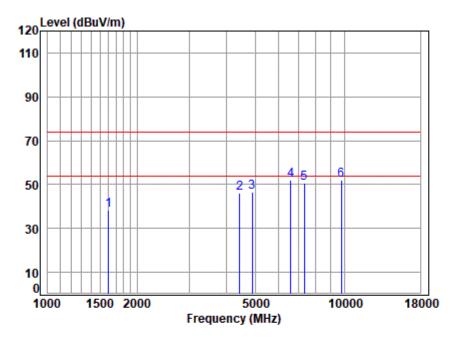
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Report No.: SZEM190901859402

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Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 18594CR

Mode : 2440 TX RSE

Note BLF

Note	. DLI									
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1601.804	5.35	26.26	40.77	47.42	38.26	74.00	-35.74	peak	
2	4443.453	7.50	33.60	43.25	48.25	46.10	74.00	-27.90	peak	
3	4880.000	7.97	34.29	43.69	48.06	46.63	74.00	-27.37	peak	
4	6583.209	11.30	35.34	42.34	47.62	51.92	74.00	-22.08	peak	
5	7320.000	10.05	36.37	41.77	45.95	50.60	74.00	-23.40	peak	
6	9760,000	10.82	37.55	38.18	42.05	52.24	74.00	-21.76	neak	



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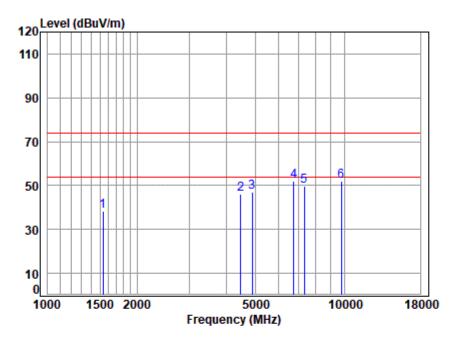
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Report No.: SZEM190901859402

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Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:middle



Site : chamber Condition: 3m VERTICAL

Job No : 18594CR

Mode : 2440 TX RSE

Note BLF

oce	. DLI									
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1538.281	5.43	25.98	40.73	47.52	38.20	74.00	-35.80	peak	
2	4469.214	7.53	33.60	43.27	48.05	45.91	74.00	-28.09	peak	
3	4880.000	7.97	34.29	43.69	48.51	47.08	74.00	-26.92	peak	
4	6737.207	10.86	35.78	42.21	47.46	51.89	74.00	-22.11	peak	
5	7320.000	10.05	36.37	41.77	45.26	49.91	74.00	-24.09	peak	
6	9760,000	10.82	37.55	38.18	41.72	51.91	74.00	-22.09	neak	



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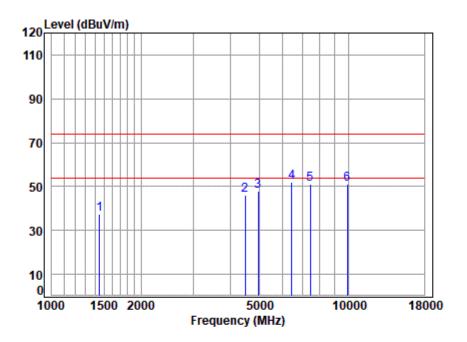
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Report No.: SZEM190901859402

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Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 18594CR

Mode : 2480 TX RSE

Note : BLE

		_							
				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
						dD: 1//m	dD: 3// /m		
	MHz	dB	ub/m	dB	abuv	abuv/m	abuv/m	dB	
1	1447.688	5.31	25.59	40.67	47.28	37.51	74.00	-36.49	peak
2	4482.150	7.54	33.60	43.29	48.39	46.24	74.00	-27.76	peak
3	4960.000	8.05	34.43	43.76	49.10	47.82	74.00	-26.18	peak
4	6451.353	11.45	35.06	42.44	47.86	51.93	74.00	-22.07	peak
5	7440.000	10.02	36.32	41.69	46.36	51.01	74.00	-22.99	peak
6	9920.000	10.90	37.58	37.93	40.74	51.29	74.00	-22.71	peak



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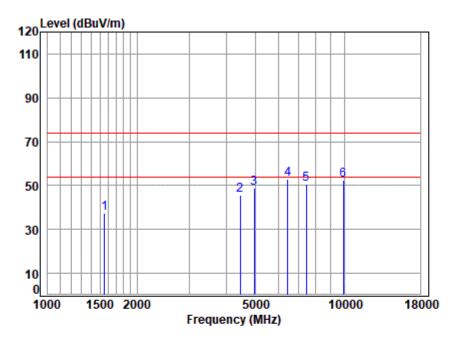
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Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 18594CR

Mode : 2480 TX RSE

Note BLF

iore	: DLI									
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1556.169	5.41	26.06	40.74	46.78	37.51	74.00	-36.49	peak	
2	4456.315	7.51	33.60	43.26	47.93	45.78	74.00	-28.22	peak	
3	4960.000	8.05	34.43	43.76	50.20	48.92	74.00	-25.08	peak	
4	6451.353	11.45	35.06	42.44	48.83	52.90	74.00	-21.10	peak	
5	7440.000	10.02	36.32	41.69	46.15	50.80	74.00	-23.20	peak	
6	9920.000	10.90	37.58	37.93	41.97	52.52	74.00	-21.48	neak	



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#### 8 **Photographs**

## 8.1 Test Setup

Refer to Setup Photos

### 8.2 EUT Constructional Details (EUT Photos)

Refer to EUT external and internal photos



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#### **Appendix** 9

### 9.1 Appendix

#### 1.6dB Bandwidth

Test Mode	Test Channel	Ant	EBW[MHz]	Limit[MHz]	Verdict
BLE	2402	Ant1	0.837	>=0.5	PASS
BLE	2440	Ant1	0.834	>=0.5	PASS
BLE	2480	Ant1	0.840	>=0.5	PASS



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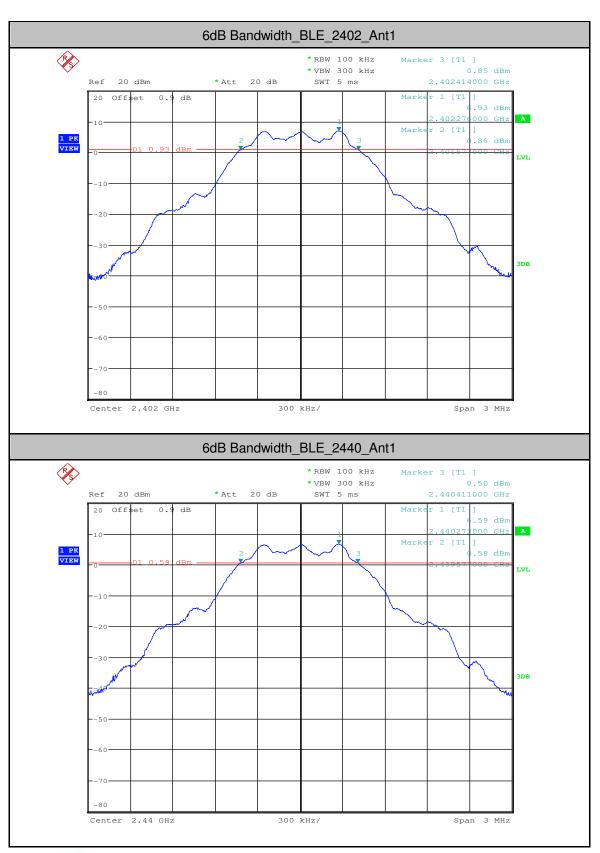
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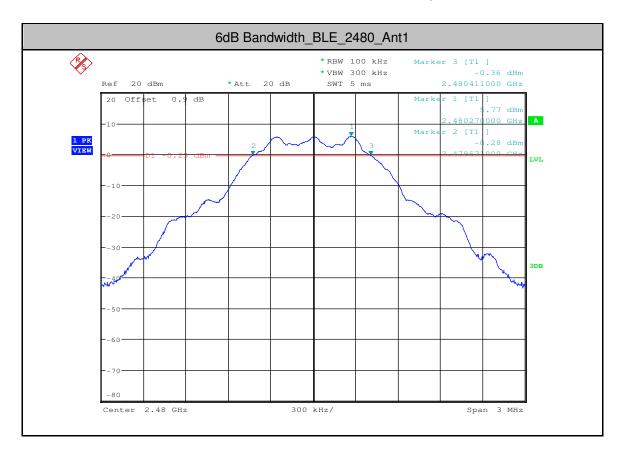
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#### 2.Maximum peak conducted output power

Test Mode	Test Channel	Ant	Power[dBm]	Limit[dBm]	Verdict
BLE	2402	Ant1	8.24	<30	PASS
BLE	2440	Ant1	7.93	<30	PASS
BLE	2480	Ant1	7.14	<30	PASS



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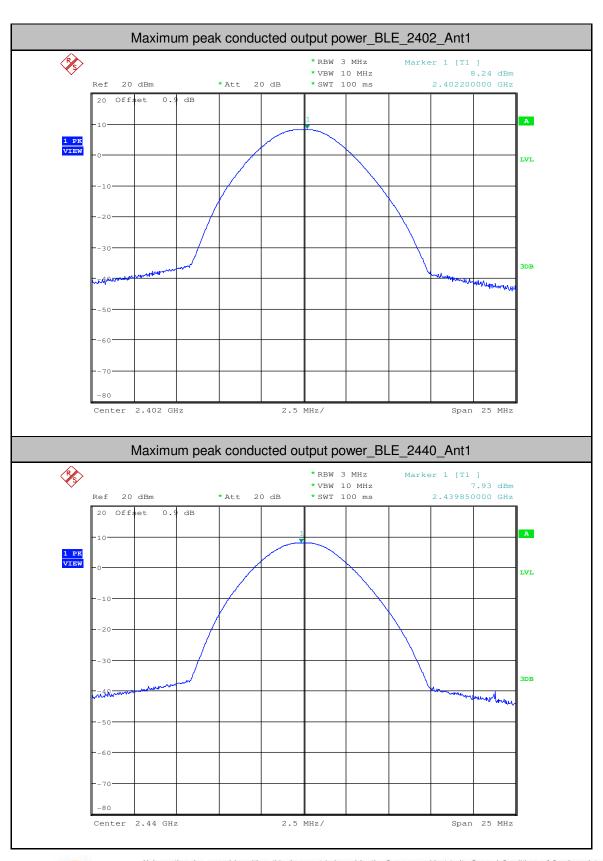
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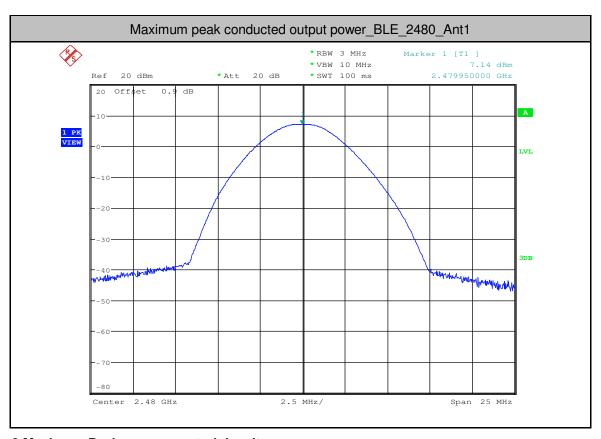
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#### 3. Maximum Peak power spectral density

Test Mode	Test Channel	Ant	PSD[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	2402	Ant1	-7.25	<8.00	PASS
BLE	2440	Ant1	-7.6	<8.00	PASS
BLE	2480	Ant1	-8.47	<8.00	PASS



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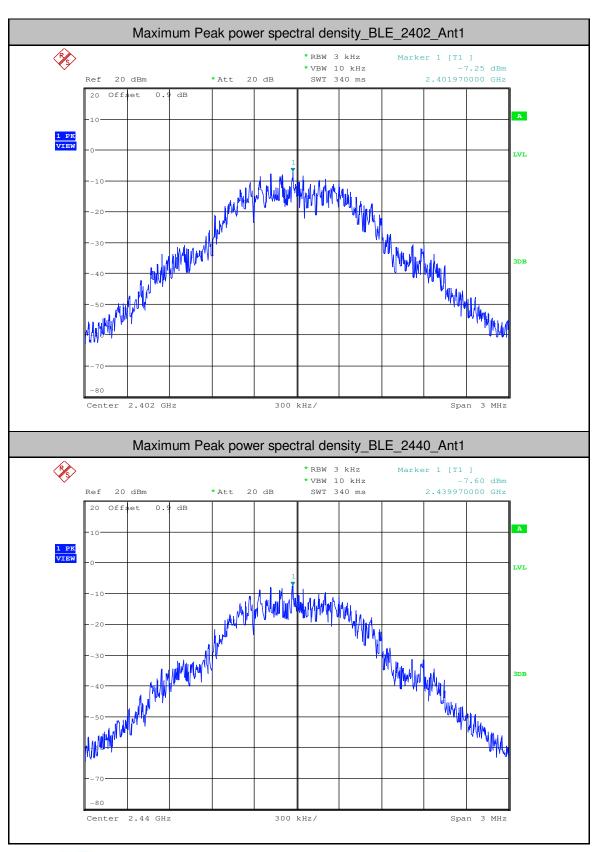
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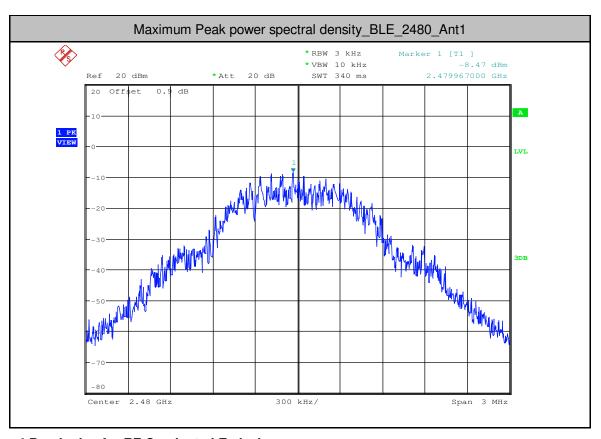
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### 4.Band-edge for RF Conducted Emissions

Test Mode	Test Channel	Ant	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
BLE	2402	Ant1	6.830	-55.685	<-13.17	PASS
BLE	2480	Ant1	5.750	-54.581	<-14.25	PASS



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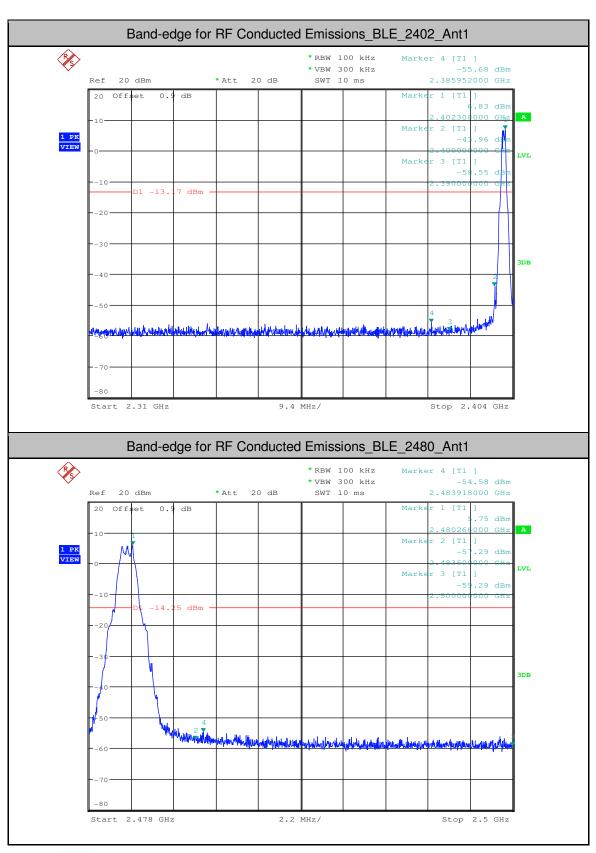
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#### **5.RF Conducted Spurious Emissions**

Test Mode	Test Channel	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BLE	2402	30	10000	1000	3000	6.93	-46.430	<-13.07	PASS
BLE	2402	10000	25000	1000	3000	6.93	-54.750	<-13.07	PASS
BLE	2440	30	10000	1000	3000	6.57	-45.990	<-13.43	PASS
BLE	2440	10000	25000	1000	3000	6.57	-53.980	<-13.43	PASS
BLE	2480	30	10000	1000	3000	5.42	-46.680	<-14.58	PASS
BLE	2480	10000	25000	1000	3000	5.42	-54.680	<-14.58	PASS



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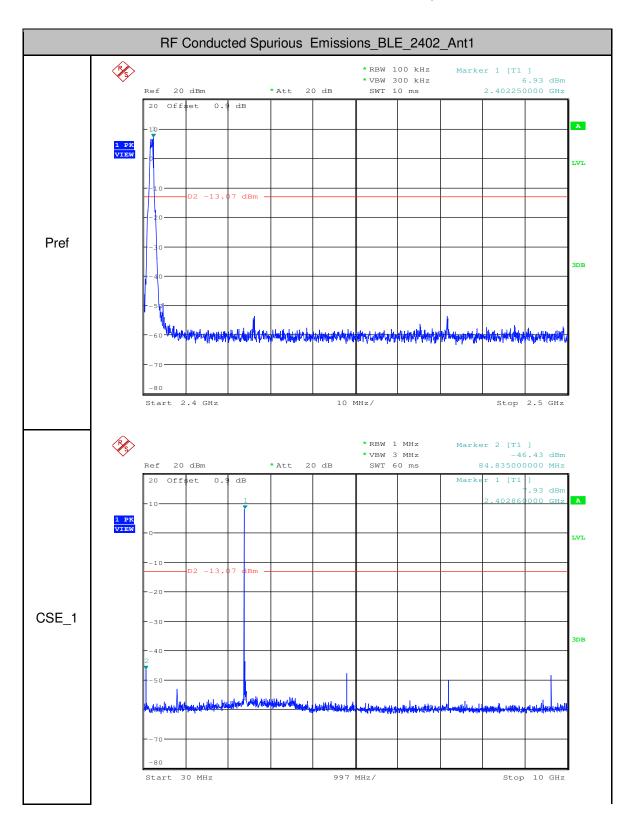
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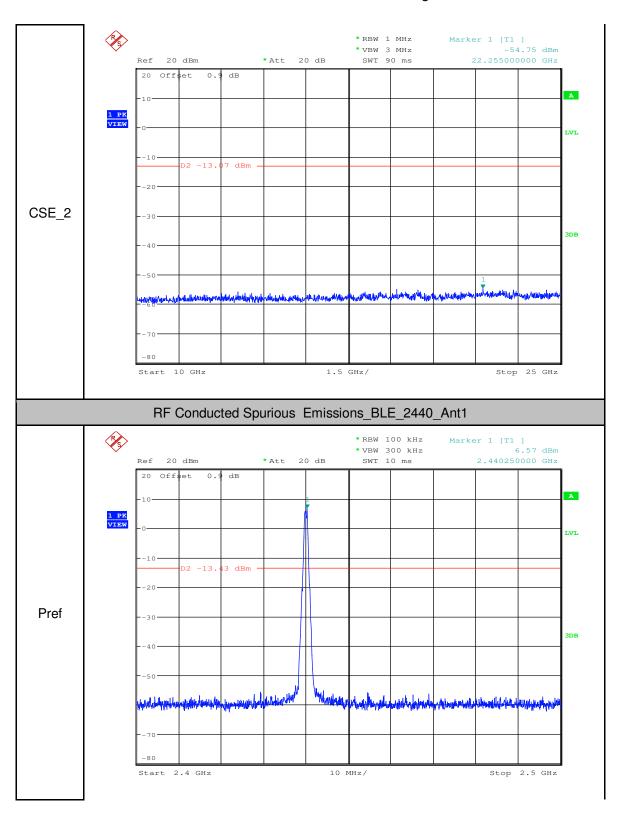
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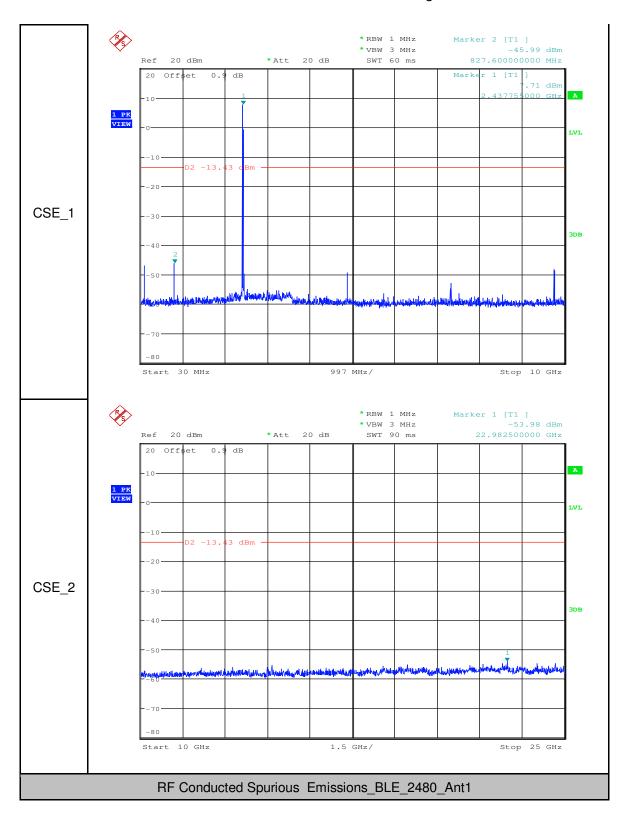
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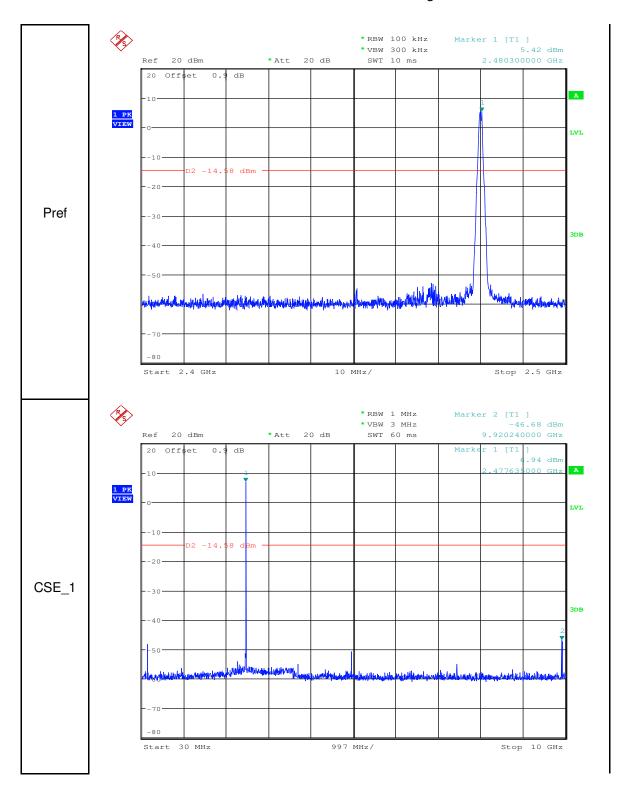
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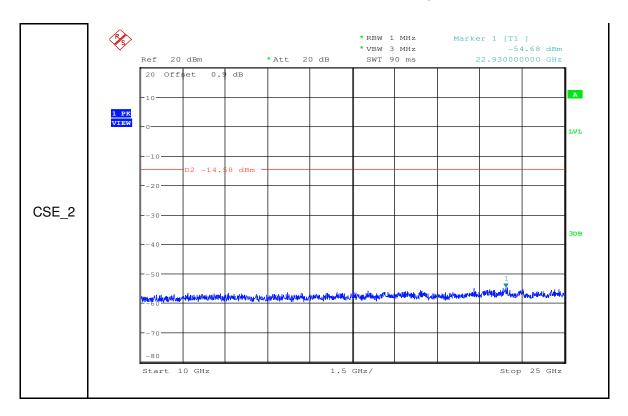
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