

Report No.: SZEM200500368603

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TEST REPORT

Application No.: SZEM2005003686CR

Applicant: OnePlus Technology (Shenzhen) Co., Ltd.

18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building, Binhe Avenue **Address of Applicant:**

North, Futian District, Shenzhen, China

Manufacturer: OnePlus Technology (Shenzhen) Co., Ltd.

18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building, Binhe Avenue Address of Manufacturer:

North, Futian District, Shenzhen, China

Factory: Shenzhen sunynn Technology Co., Ltd.

2F, Block C, Jianxing Technology Building, Shahe West Road, Xili Street, Address of Factory:

Nanshan District, Shenzhen

Equipment Under Test (EUT):

EUT Name: OnePlus Buds

Model No.: E501A **Trade Mark: ONEPLUS** FCC ID: 2ABZ2-E501A

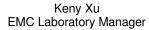
Standard(s): 47 CFR Part 15, Subpart C 15.247

2020-05-13 **Date of Receipt:**

2020-05-13 to 2020-05-17 **Date of Test:**

2020-05-22 Date of Issue:

Pass* Test Result:



Keny. Ku



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In the configuration tested, the EUT complied with the standards specified above.



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	Revision Record						
Version	Chapter	Date	Modifier	Remark			
01		2020-05-22		Original			

Authorized for issue by:		
	Bim Chen	
	Bill Chen /Project Engineer	
	EvicFu	
	Eric Fu /Reviewer	



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Test Summary 2

Radio Spectrum Technical Requirement						
Item Standard Method Requirement Res						
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	
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	47 CFR Part 15,	ANSI C63.10 (2013)	47 CFR Part 15, Subpart	Pass	
Density	Subpart C 15.247	Section 11.10.2	C 15.247(e)		
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		

Remark:

Model No.: E501A

Only the white sample was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for the above samples, with only difference on color.



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General Information

4.1 Details of E.U.T.

Charging BOX: Rechargeable battery DC 3.8V 420mAh(Charge by Type-C)
Left earphone: Rechargeable battery DC 3.8V 35mAh(Charge by Charging BOX)
Right earphone: Rechargeable battery DC 3.8V 35mAh(Charge by Charging BOX)
20cm unshielded
V5.0 Dual mode
2402MHz to 2480MHz
GFSK
40
2MHz
1Mbit/s
Ceramic Antenna
-1.05dBi
V3
V2
ESP Series Modules Test Tool V2.2.2(1)
E501AOW112006130991
V3.2.7.0

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:



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Selected Test Channel				
Channel	Frequency			
The lowest channel (CH0)	2402MHz			
The middle channel (C19)	2440MHz			
The highest channel (CH39)	2480MHz			

4.2 Description of Support Units

Description	Manufacturer	Model No.
Test board	SGS provides	N/A
USB cable	SGS provides	N/A

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	± 7.25 x 10 ⁻⁸
2	Duty cycle	± 0.37%
3	Occupied Bandwidth	± 3%
4	RF conducted power	± 0.75dB
5	RF power density	± 2.84dB
6	Conducted Spurious emissions	± 0.75dB
7	DE Dodieted newer	± 4.5dB (Below 1GHz)
/	RF Radiated power	± 4.8dB (Above 1GHz)
8	Dadiated Courieus emission toet	± 4.5dB (Below 1GHz)
0	Radiated Spurious emission test	± 4.8dB (Above 1GHz)
9	Temperature test	± 1 ℃
10	Humidity test	± 3%
11	Supply voltages	± 1.5%
12	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:

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.

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.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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Equipment List 5

RF Conducted						
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	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23	
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	EHP-50F	SEM022-05	2019-11-28	2020-11-27	
Electric Field Probe	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	2020-04-09	2021-04-08						
Horn Antenna	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12						
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16						
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23						
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2020-04-01	2021-03-31						
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31						
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						



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Radiated Spurious Emis	Radiated Spurious Emissions										
Test 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						
EXA Signal Analyzer (10Hz-44GHz)	Agilent Technologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08						
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	S-Lindgren 3142C SEM003-01		2017-06-27	2020-06-26						
Horn Antenna (800MHz-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12						
Amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2019-09-24	2020-09-23						
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23						
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						

RE in Chamber						
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 (3Hz-3.6GHz)	KEYSIGHT	N9038A	SEM004-15	2019-12-16	2020-12-15	
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	2020-04-01	2021-03-31	
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	

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 ZJ1-2B Industry Factory		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	2020-04-07	2021-04-06				



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Radio Spectrum Technical Requirement 6

6.1 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 -1.05dBi.

Antenna location: Refer to internal photo.



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7 Radio Spectrum Matter Test Results

7.1 Minimum 6dB Bandwidth

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

Limit: ≥500 kHz

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 27.7 °C Humidity: 44.8 % RH Atmospheric Pressure: 1010 mbar Pretest these e:TX mode(Left earphone)_Keep the EUT in continuously transmitting mode with

modes to find GFSK modulation

the worst case: f:TX mode(Right earphone) Keep the EUT in continuously transmitting mode with

GFSK modulation

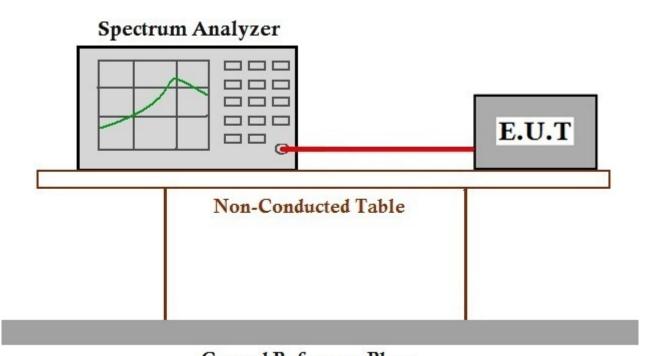
The worst case e:TX mode(Left earphone)_Keep the EUT in continuously transmitting mode with

for final test: GFSK modulation

f:TX mode(Right earphone)_Keep the EUT in continuously transmitting mode with

GFSK modulation

7.1.2 Test Setup Diagram



Ground Reference Plane

7.1.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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7.2 Conducted Peak Output Power

47 CFR Part 15, Subpart C 15.247(b)(3) Test Requirement 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					

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 27.7 °C Humidity: 44.8 % RH Atmospheric Pressure: 1010 mbar

Pretest these e:TX mode(Left earphone) Keep the EUT in continuously transmitting mode with **GFSK** modulation modes to find

the worst case: f:TX mode(Right earphone)_Keep the EUT in continuously transmitting mode with

GFSK modulation

e:TX mode(Left earphone) Keep the EUT in continuously transmitting mode with The worst case

for final test: **GFSK** modulation

f:TX mode(Right earphone) Keep the EUT in continuously transmitting mode with

GFSK modulation

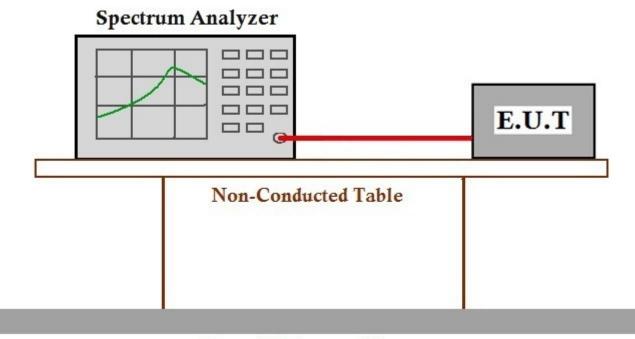




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7.2.2 Test Setup Diagram



Ground Reference Plane

7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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7.3 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

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 27.7 °C Humidity: 44.8 % RH Atmospheric Pressure: 1010 mbar

Pretest these e:TX mode(Left earphone)_Keep the EUT in continuously transmitting mode with

modes to find GFSK modulation

the worst case: f:TX mode(Right earphone) Keep the EUT in continuously transmitting mode with

GFSK modulation

The worst case e:TX mode(Left earphone) Keep the EUT in continuously transmitting mode with

for final test: GFSK modulation

f:TX mode(Right earphone) Keep the EUT in continuously transmitting mode with

GFSK modulation

7.3.2 Test Setup Diagram

Spectrum Analyzer E.U.T Non-Conducted Table

Ground Reference Plane

7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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7.4 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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7.4.1 E.U.T. Operation

Operating Environment:

27.7 °C Humidity: Temperature: 44.8 % RH Atmospheric Pressure: 1010 mbar

Pretest these e:TX mode(Left earphone)_Keep the EUT in continuously transmitting mode with

modes to find **GFSK** modulation

the worst case: f:TX mode(Right earphone) Keep the EUT in continuously transmitting mode with

GFSK modulation

The worst case e:TX mode(Left earphone) Keep the EUT in continuously transmitting mode with

for final test: **GFSK** modulation

f:TX mode(Right earphone)_Keep the EUT in continuously transmitting mode with

GFSK modulation

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 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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7.5.1 E.U.T. Operation

Operating Environment:

27.7 °C Humidity: Temperature: 44.8 % RH Atmospheric Pressure: 1010 mbar Pretest these e:TX mode(Left earphone)_Keep the EUT in continuously transmitting mode with

modes to find **GFSK** modulation

the worst case: f:TX mode(Right earphone) Keep the EUT in continuously transmitting mode with

GFSK modulation

The worst case e:TX mode(Left earphone) Keep the EUT in continuously transmitting mode with

for final test: **GFSK** modulation

f:TX mode(Right earphone)_Keep the EUT in continuously transmitting mode with

GFSK modulation

7.5.2 Test Setup Diagram

Spectrum Analyzer E.U.T Non-Conducted Table

Ground Reference Plane

7.5.3 Measurement Procedure and Data

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7.6 Radiated Emissions which fall in the restricted bands

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

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

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.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.1 °C Humidity: 51.2 % RH Atmospheric Pressure: 1010 mbar

Pretest these e:TX mode(Left earphone) Keep the EUT in continuously transmitting mode with

modes to find **GFSK** modulation

the worst case: f:TX mode(Right earphone) Keep the EUT in continuously transmitting mode with

GFSK modulation

e:TX mode(Left earphone)_Keep the EUT in continuously transmitting mode with The worst case

for final test: GFSK modulation

f:TX mode(Right earphone) Keep the EUT in continuously transmitting mode with

GFSK modulation



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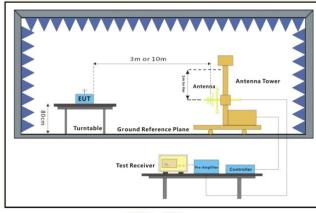
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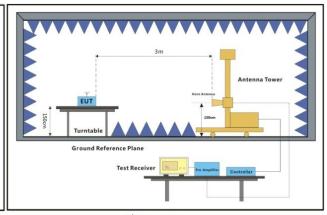


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7.6.2 Test Setup Diagram





30MHz-1GHz

Above 1GHz

7.6.3 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.
- g. 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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Total Post-back Research

Total Post-back Research

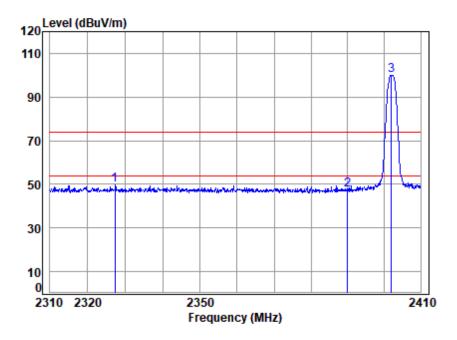
Total Post-back Research



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



Site : chamber

Condition: 3m HORIZONTAL Job No : 03686CR/03687CR : 2402 Band edge Mode

: BLE L Note

		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	2327.294	4.10	28.41	40.95	57.97	49.53	74.00	-24.47	peak
2	2390.000	3.69	28.52	40.97	56.12	47.36	74.00	-26.64	peak
3 *	2402.000	3.63	28.54	40.98	108.77	99.96	74.00	25.96	peak



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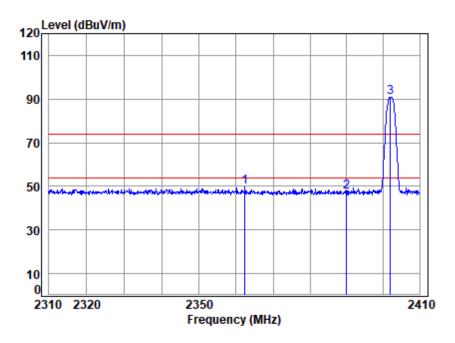
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Mode:e; Polarization:Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL

: 03686CR/03687CR : 2402 Band edge Mode

: BLE L Note

		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	2362.372	3.87	28.47	40.96	58.32	49.70	74.00	-24.30	peak
2	2390.000	3.69	28.52	40.97	56.43	47.67	74.00	-26.33	peak
3 *	2402.000	3.63	28.54	40.98	99.66	90.85	74.00	16.85	peak



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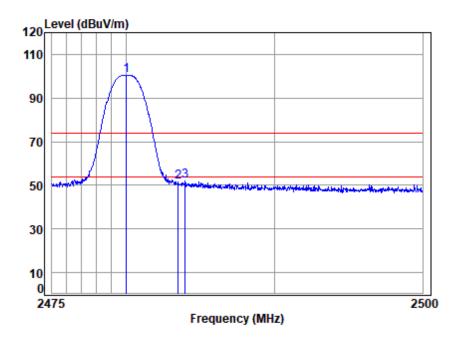
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Mode:e; Polarization:Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 03686CR/03687CR : 2480 Band edge Mode

Note : BLE L

	Freq					Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2	2480.000 2483.500 2483.946	4.01	28.67	41.01	59.99	51.66	74.00	-22.34	peak



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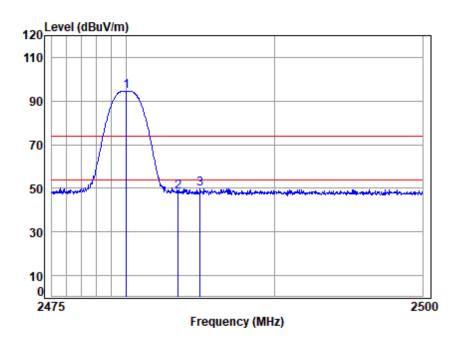
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Mode:e; Polarization:Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL

: 03686CR/03687CR Mode : 2480 Band edge

Note : BLE L

	Freq				Read Level				Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2	2480.000 2483.500 2484.970	4.01	28.67	41.01	56.60	48.27	74.00	-25.73	peak



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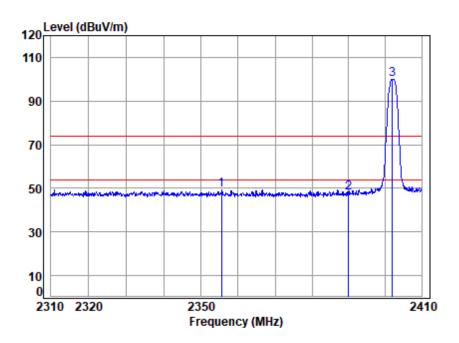
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Mode:f; Polarization:Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 03686CR/03687CR : 2402 Band edge Mode

Note : BLE R

	Freq		Ant Factor						Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2	2355.574 2390.000 2402.000	3.69	28.52	40.97	56.87	48.11	74.00	-25.89	peak



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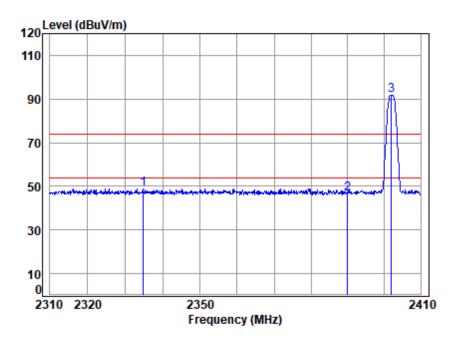
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Mode:f; Polarization:Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 03686CR/03687CR : 2402 Band edge Mode

Note : BLE R

	Freq		Ant Factor						Remark
			dB/m						
1	2334.802	4.05	28.42	40.95	57.36	48.88	74.00	-25.12	peak
	2390.000								•
3 *	2402.000	3.63	28.54	40.98	100.70	91.89	74.00	17.89	peak



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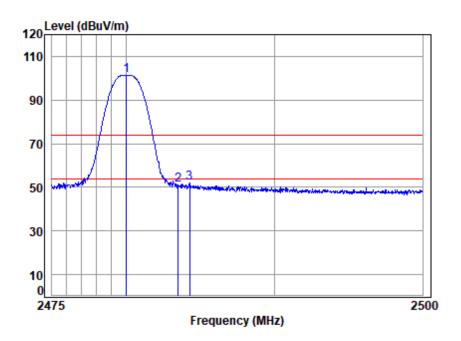
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Mode:f; Polarization:Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 03686CR/03687CR : 2480 Band edge Mode

Note : BLE R

	Freq					Level			Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2	2480.000 2483.500 2484.271	4.01	28.67	41.01	59.28	50.95	74.00	-23.05	peak



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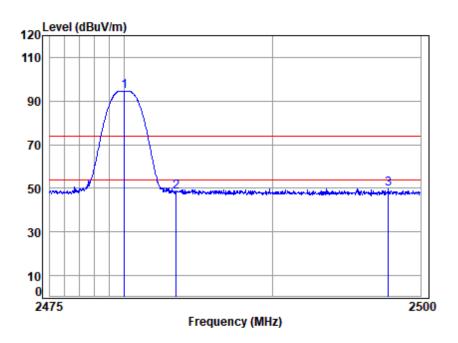
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Mode:f; Polarization:Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL

: 03686CR/03687CR Mode : 2480 Band edge

: BLE R Note

		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	3.99	28.67	41.01	103.01	94.66	74.00	20.66	peak
2	2483.500	4.01	28.67	41.01	56.70	48.37	74.00	-25.63	peak
3	2497.815	4.07	28.70	41.02	57.91	49.66	74.00	-24.34	peak



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7.7 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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7.7.1 E.U.T. Operation

Operating Environment:

24.3 °C Humidity: Temperature: 64.1 % RH Atmospheric Pressure: 1010 mbar

Pretest these e:TX mode(Left earphone)_Keep the EUT in continuously transmitting mode with

modes to find **GFSK** modulation

the worst case: f:TX mode(Right earphone) Keep the EUT in continuously transmitting mode with

GFSK modulation

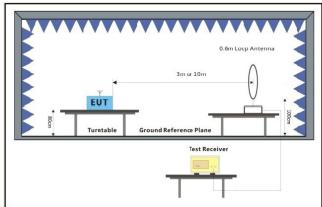
e:TX mode(Left earphone) Keep the EUT in continuously transmitting mode with The worst case

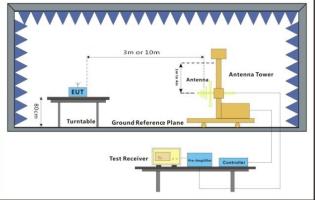
for final test: **GFSK** modulation

f:TX mode(Right earphone)_Keep the EUT in continuously transmitting mode with

GFSK modulation

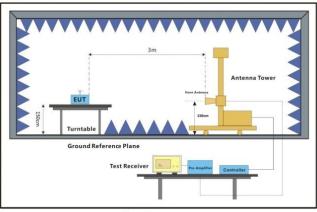
7.7.2 Test Setup Diagram





Below 30MHz

30MHz-1GHz



Above 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.
- g. 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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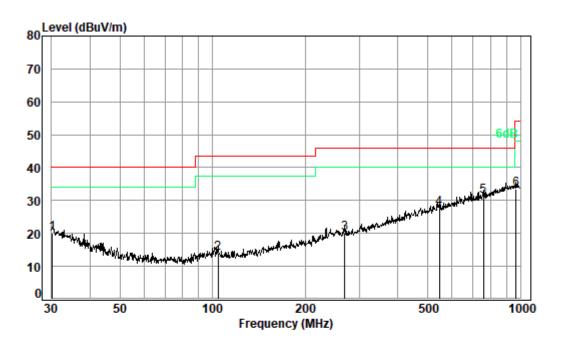


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Radiated emission below 1GHz

Mode:e: Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 03686CR

Test Mode: e

		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	30.21	0.60	22.38	27.73	24.77	20.02	40.00	-19.98	QP
2	104.17	1.21	13.80	27.61	26.58	13.98	43.50	-29.52	QP
3	268.49	1.76	18.97	26.97	26.32	20.08	46.00	-25.92	QP
4	545.18	2.65	25.55	27.99	27.36	27.57	46.00	-18.43	QP
5 pp	758.04	3.08	28.26	27.80	27.71	31.25	46.00	-14.75	QP
6	968.93	3.67	30.15	27.02	26.74	33.54	54.00	-20.46	OP



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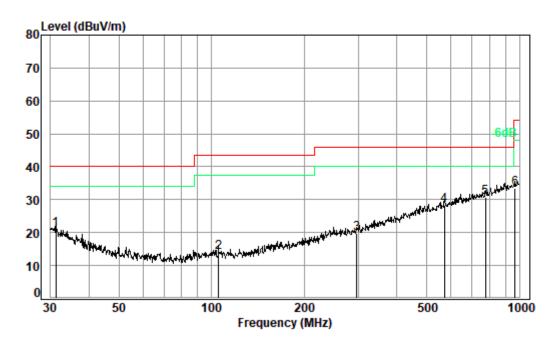
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Mode:e; Polarization:Vertical



Condition: 3m VERTICAL Job No. : 03686CR

Test Mode: e

۰											
			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	31.18	0.60	21.83	27.73	26.18	20.88	40.00	-19.12	QP	
	2	105.27	1.22	13.75	27.60	26.62	13.99	43.50	-29.51	QP	
	3	296.18	1.88	19.45	26.90	25.26	19.69	46.00	-26.31	QP	
	4	570.61								-	
	5 pp	776.88	3.14	28.37	27.77	27.04	30.78	46.00	-15.22	QP	
	6	968.93								_	



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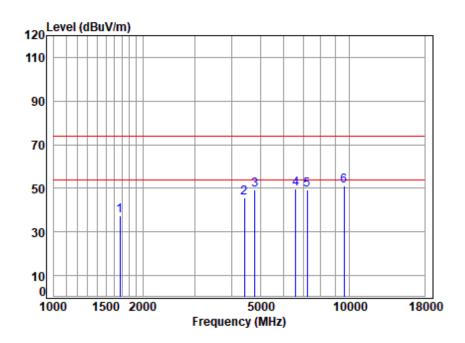


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Above 1GHz

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



Site : chamber

Condition: 3m HORIZONTAL Job No : 03686CR/03687CR

Mode : 2402 TX SE

Note : BLE L

		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	1672.779	3.21	26.56	40.62	48.21	37.36	74.00	-36.64	peak
2	4417.841	6.63	33.46	42.49	48.22	45.82	74.00	-28.18	peak
3	4804.000	6.80	33.97	42.77	51.37	49.37	74.00	-24.63	peak
4	6602.265	8.00	35.66	41.89	48.17	49.94	74.00	-24.06	peak
5	7206.000	8.44	36.07	41.58	46.19	49.12	74.00	-24.88	peak
6	9608,000	9.17	37.67	38.57	42.69	50.96	74.00	-23.04	neak



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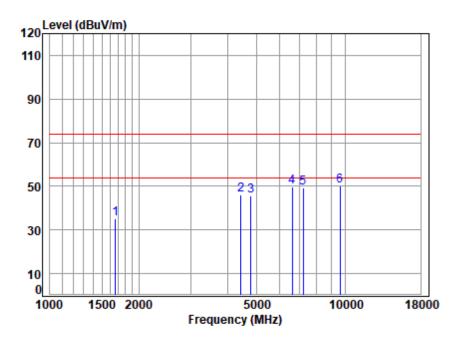
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Mode:e; Polarization:Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 03686CR/03687CR

Mode : 2402 TX SE

Note : BLE L

		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	1667.951	3.20	26.54	40.61	46.06	35.19	74.00	-38.81	peak
2	4443.453	6.55	33.50	42.51	48.56	46.10	74.00	-27.90	peak
3	4804.000	6.80	33.97	42.77	47.57	45.57	74.00	-28.43	peak
4	6621.375	8.07	35.67	41.88	47.76	49.62	74.00	-24.38	peak
5	7206.000	8.44	36.07	41.58	46.16	49.09	74.00	-24.91	peak
6	9608,000	9.17	37.67	38.57	41.95	50.22	74.00	-23.78	peak



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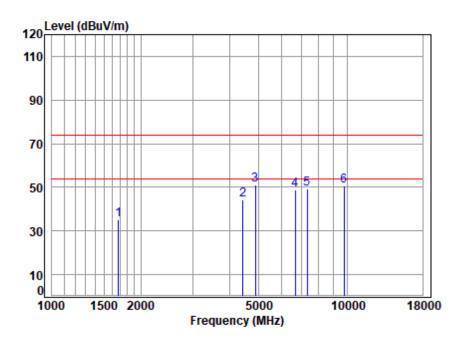
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Mode:e; Polarization:Horizontal; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 03686CR/03687CR

Mode : 2440 TX SE

Note : BLE L

		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	1682.477	3.25	26.60	40.62	45.98	35.21	74.00	-38.79	peak
2	4430.628	6.59	33.48	42.50	46.65	44.22	74.00	-29.78	peak
3	4880.000	7.02	34.06	42.82	52.78	51.04	74.00	-22.96	peak
4	6679.040	8.27	35.71	41.85	46.59	48.72	74.00	-25.28	peak
5	7323.000	8.36	36.16	41.52	46.28	49.28	74.00	-24.72	peak
6	9764.000	9.30	37.76	38.34	41.97	50.69	74.00	-23.31	peak



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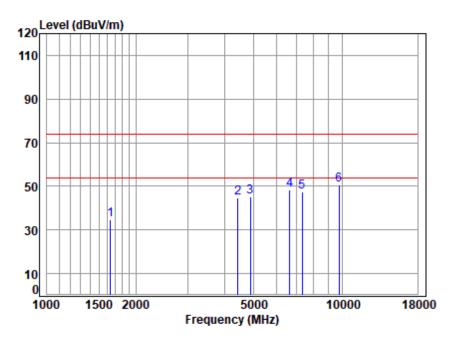
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Mode:e; Polarization:Vertical; Modulation:GFSK; Channel:middle



Site : chamber Condition: 3m VERTICAL

Job No : 03686CR/03687CR

Mode : 2440 TX SE

Note : BLE L

		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	
4	1644 010	2 44	26.44	40.00	45 73	24.60	74.00	20. 22	
1	1644.019	3.11	26.44	40.60	45./3	34.68	74.00	-39.32	реак
2	4430.628	6.59	33.48	42.50	47.29	44.86	74.00	-29.14	peak
3	4880.000	7.02	34.06	42.82	46.85	45.11	74.00	-28.89	peak
4	6640.542	8.14	35.69	41.87	46.60	48.56	74.00	-25.44	peak
5	7323.000	8.36	36.16	41.52	44.61	47.61	74.00	-26.39	peak
6	9764.000	9.30	37.76	38.34	41.73	50.45	74.00	-23.55	peak



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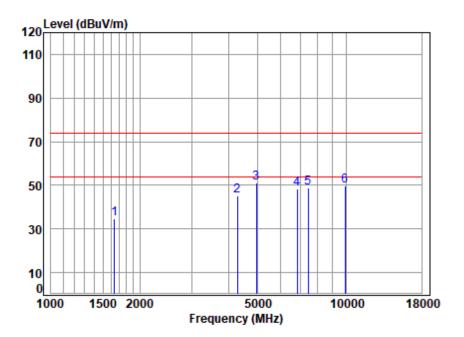
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Mode:e; Polarization:Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 03686CR/03687CR

Mode : 2480 TX SE

Note : BLE L

		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	1639.274	3.09	26.42	40.59	45.79	34.71	74.00	-39.29	peak
2	4279.589	6.27	33.22	42.38	48.12	45.23	74.00	-28.77	peak
3	4960.000	7.02	34.15	42.87	52.88	51.18	74.00	-22.82	peak
4	6835.278	7.93	35.80	41.77	46.38	48.34	74.00	-25.66	peak
5	7440.000	8.10	36.25	41.46	45.97	48.86	74.00	-25.14	peak
6	9920.000	8.96	37.85	38.12	41.19	49.88	74.00	-24.12	peak



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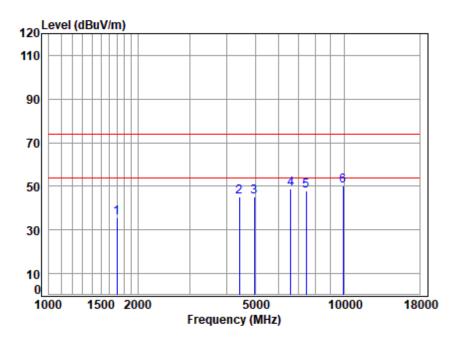
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Mode:e; Polarization:Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 03686CR/03687CR

Mode : 2480 TX SE

Note : BLE L

		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	1697.129	3.30	26.66	40.63	46.13	35.46	74.00	-38.54	peak
2	4417.841	6.63	33.46	42.49	47.77	45.37	74.00	-28.63	peak
3	4960.000	7.02	34.15	42.87	46.83	45.13	74.00	-28.87	peak
4	6602.265	8.00	35.66	41.89	47.27	49.04	74.00	-24.96	peak
5	7440.000	8.10	36.25	41.46	45.04	47.93	74.00	-26.07	peak
6	9920.000	8.96	37.85	38.12	41.46	50.15	74.00	-23.85	peak



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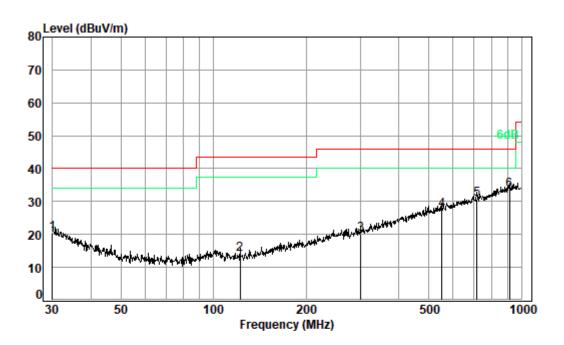


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Radiated emission below 1GHz

Mode:f: Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 03686CR

Test Mode: f

		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	30.00	0.60	22.50	27.73	24.88	20.25	40.00	-19.75	QP
2	121.98	1.26	13.16	27.50	26.95	13.87	43.50	-29.63	QP
3	300.37	1.90	19.61	26.89	25.53	20.15	46.00	-25.85	QP
4	550.95	2.65	25.66	28.01	27.15	27.45	46.00	-18.55	QP
5	716.68	2.96	28.01	27.89	27.79	30.87	46.00	-15.13	QP
6 pp	916.07	3.62	29.88	27.23	27.29	33.56	46.00	-12.44	OP



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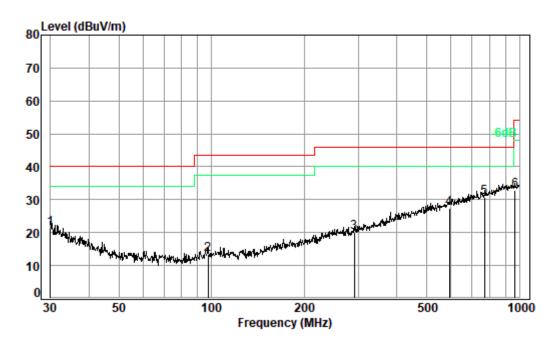
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Mode:f; Polarization:Vertical



Condition: 3m VERTICAL Job No. : 03686CR

Test Mode: f

		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	30.00	0.60	22.50	27.73	25.92	21.29	40.00	-18.71	QP
2	97.46	1.18	13.78	27.64	26.20	13.52	43.50	-29.98	QP
3	291.04	1.86	19.25	26.91	25.81	20.01	46.00	-25.99	QP
4	593.05	2.69	26.47	28.15	26.34	27.35	46.00	-18.65	QP
5 pp	771.45	3.12	28.34	27.78	27.11	30.79	46.00	-15.21	QP
6	968.93	3.67	30.15	27.02	26.20	33.00	54.00	-21.00	OP



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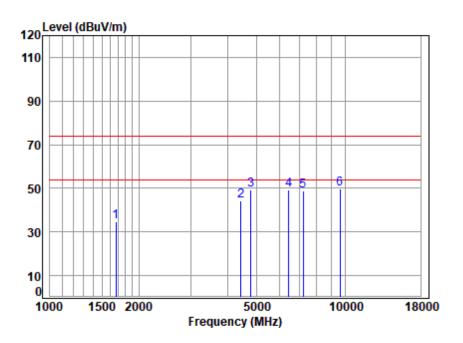


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Above 1GHz

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



Site : chamber

Condition: 3m HORIZONTAL Job No : 03686CR/03687CR

Mode : 2402 TX SE

Note : BLE R

		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	
	4670 770	2.04					74.00	20.26	
1	1672.779	3.21	26.56	40.62	45.49	34.64	/4.00	-39.36	peak
2	4443.453	6.55	33.50	42.51	46.82	44.36	74.00	-29.64	peak
3	4804.000	6.80	33.97	42.77	51.42	49.42	74.00	-24.58	peak
4	6451.353	7.54	35.55	41.98	48.07	49.18	74.00	-24.82	peak
5	7206.000	8.44	36.07	41.58	46.02	48.95	74.00	-25.05	peak
6	9608.000	9.17	37.67	38.57	41.29	49.56	74.00	-24.44	peak



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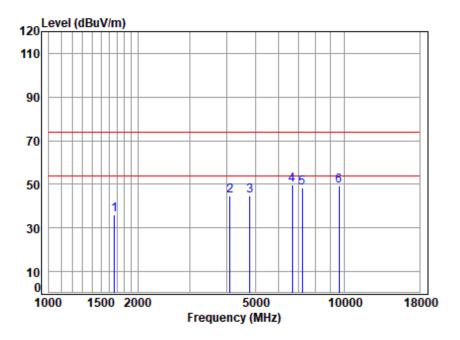
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Mode:f; Polarization:Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 03686CR/03687CR

Mode : 2402 TX SE

: BLE R Note

		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	1667.951	3.20	26.54	40.61	46.97	36.10	74.00	-37.90	peak
2	4109.872	6.00	32.91	42.25	47.95	44.61	74.00	-29.39	peak
3	4804.000	6.80	33.97	42.77	46.86	44.86	74.00	-29.14	peak
4	6659.763	8.21	35.70	41.86	47.53	49.58	74.00	-24.42	peak
5	7206.000	8.44	36.07	41.58	45.26	48.19	74.00	-25.81	peak
6	9608.000	9.17	37.67	38.57	41.06	49.33	74.00	-24.67	peak



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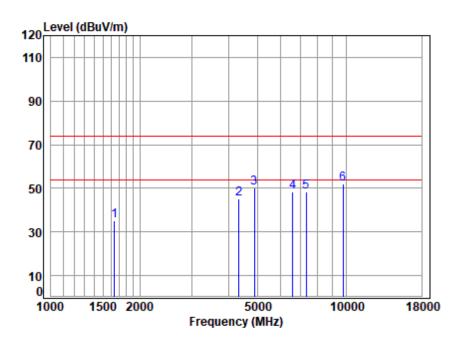
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Mode:f; Polarization:Horizontal; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 03686CR/03687CR

Mode : 2440 TX SE

Note : BLE R

		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	
		2 44			46.36	25.24	74.00	20.50	
1	1644.019	3.11	26.44	40.60	46.36	35.31	74.00	-38.69	peak
2	4341.886	6.46	33.33	42.43	47.82	45.18	74.00	-28.82	peak
3	4880.000	7.02	34.06	42.82	52.07	50.33	74.00	-23.67	peak
4	6583.209	7.90	35.65	41.91	46.72	48.36	74.00	-25.64	peak
5	7323.000	8.36	36.16	41.52	45.30	48.30	74.00	-25.70	peak
6	9764.000	9.30	37.76	38.34	43.39	52.11	74.00	-21.89	peak



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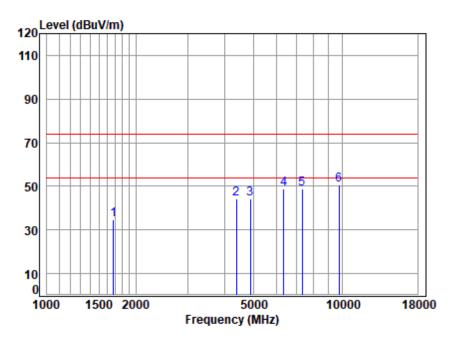
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Mode:f; Polarization:Vertical; Modulation:GFSK; Channel:middle



Site : chamber Condition: 3m VERTICAL

Job No : 03686CR/03687CR

Mode : 2440 TX SE

Note : BLE R

		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	
_	4600 477	2.05	06.60	40.50	45 63	24.05	74.00	20.44	
1	1682.477	3.25	26.60	40.62	45.63	34.86	/4.00	-39.14	peak
2	4392.376	6.66	33.42	42.47	46.83	44.44	74.00	-29.56	peak
3	4880.000	7.02	34.06	42.82	46.05	44.31	74.00	-29.69	peak
4	6340.436	7.40	35.44	42.04	47.84	48.64	74.00	-25.36	peak
5	7323.000	8.36	36.16	41.52	45.65	48.65	74.00	-25.35	peak
6	9764.000	9.30	37.76	38.34	42.01	50.73	74.00	-23.27	peak



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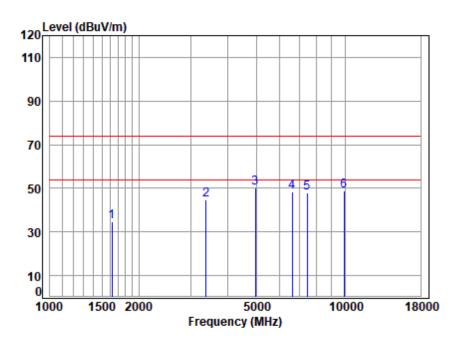
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Mode:f; Polarization:Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 03686CR/03687CR

Mode : 2480 TX SE

Note : BLE R

		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	1620 421	2 02	26.24	40 E0	AE 00	24 67	74.00	20 22	noole
1	1620.431	5.05	20.34	40.56	45.00	34.67	74.00	-39.33	реак
2	3386.297	5.66	31.53	41.60	49.09	44.68	74.00	-29.32	peak
3	4960.000	7.02	34.15	42.87	52.04	50.34	74.00	-23.66	peak
4	6621.375	8.07	35.67	41.88	46.71	48.57	74.00	-25.43	peak
5	7440.000	8.10	36.25	41.46	45.15	48.04	74.00	-25.96	peak
6	9920.000	8.96	37.85	38.12	40.27	48.96	74.00	-25.04	peak



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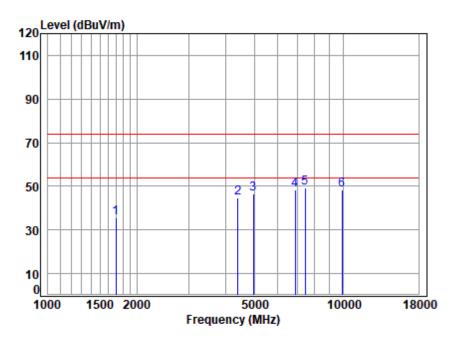
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Mode:f; Polarization:Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 03686CR/03687CR

Mode : 2480 TX SE

: BLE R Note

		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	1702.042	3.30	26.68	40.63	46.36	35.71	74.00	-38.29	peak
2	4405.090	6.67	33.44	42.48	47.00	44.63	74.00	-29.37	peak
3	4960.000	7.02	34.15	42.87	48.14	46.44	74.00	-27.56	peak
4	6874.906	7.87	35.83	41.75	46.24	48.19	74.00	-25.81	peak
5	7440.000	8.10	36.25	41.46	46.48	49.37	74.00	-24.63	peak
6	9920.000	8.96	37.85	38.12	39.73	48.42	74.00	-25.58	peak



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8 **Photographs**

8.1 **Test Setup**

Please refer to setup photos.

8.2 EUT Constructional Details (EUT Photos)

Please Refer to external and internal photos for details.



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Appendix 9

Appendix 15.247-Left

1.6dB Bandwidth

Test Mode	Test Channel	Ant	EBW[MHz]	Limit[MHz]	Verdict
BLE	2402	Ant1	0.714	>=0.5	PASS
BLE	2440	Ant1	0.717	>=0.5	PASS
BLE	2480	Ant1	0.705	>=0.5	PASS



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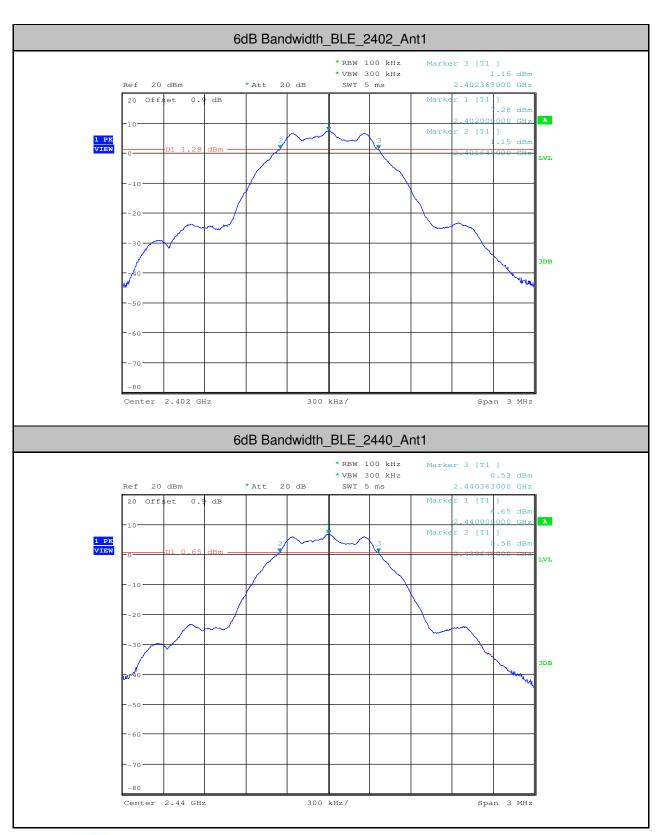
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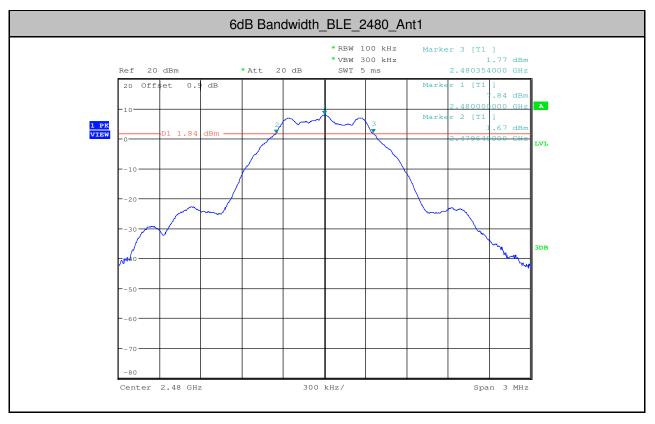
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2.Maximum peak conducted output power

Test Mode	Test Channel	Ant	Power Set:	Power[dBm]	Limit[dBm]	Verdict
BLE	2402	Ant1	7.63dBm by default	7.63	<30	PASS
BLE	2440	Ant1	7.07dBm by default	7.07	<30	PASS
BLE	2480	Ant1	8.3dBm by default	8.3	<30	PASS



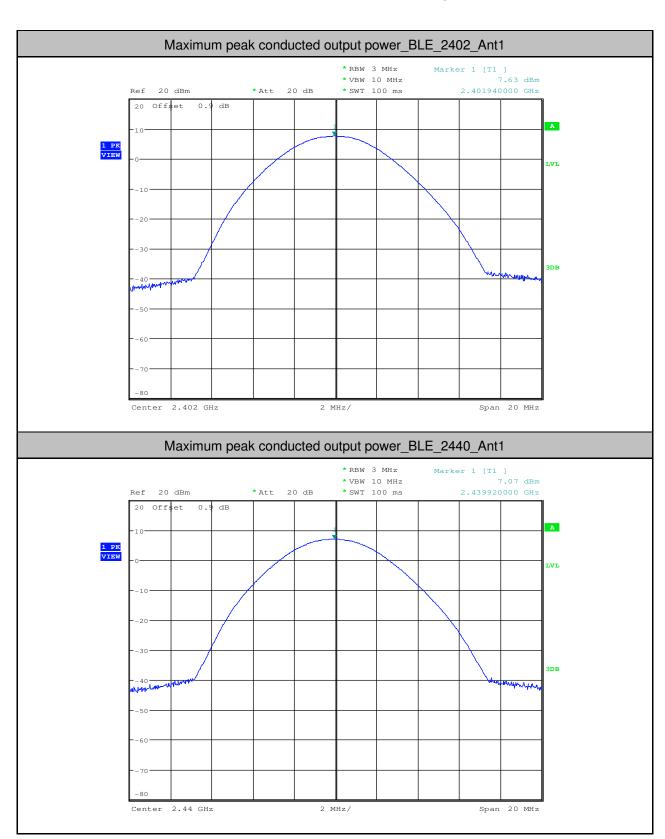
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3. Maximum Peak power spectral density

Test Mode	Test Channel	Ant	PSD[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	2402	Ant1	-7.91	<8.00	PASS
BLE	2440	Ant1	-8.48	<8.00	PASS
BLE	2480	Ant1	-7.43	<8.00	PASS



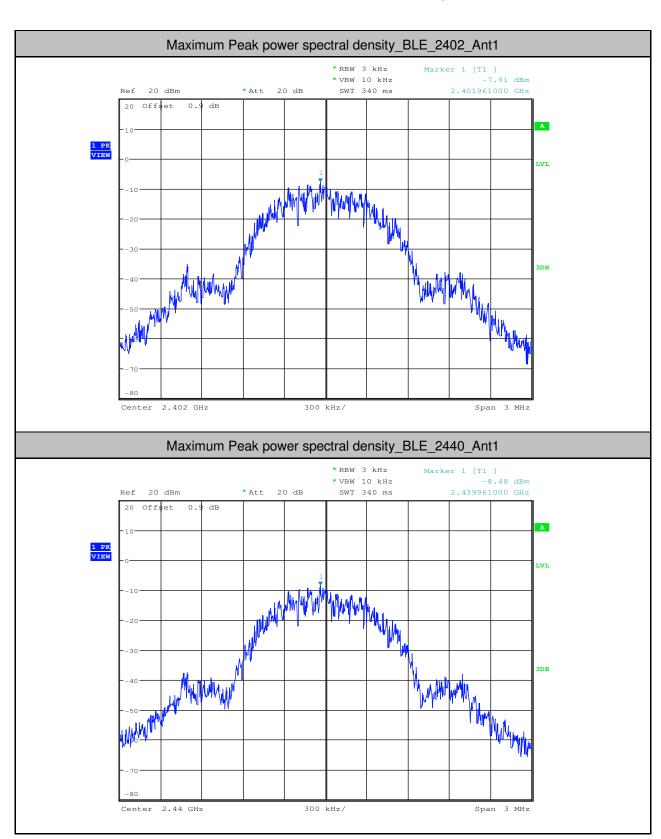
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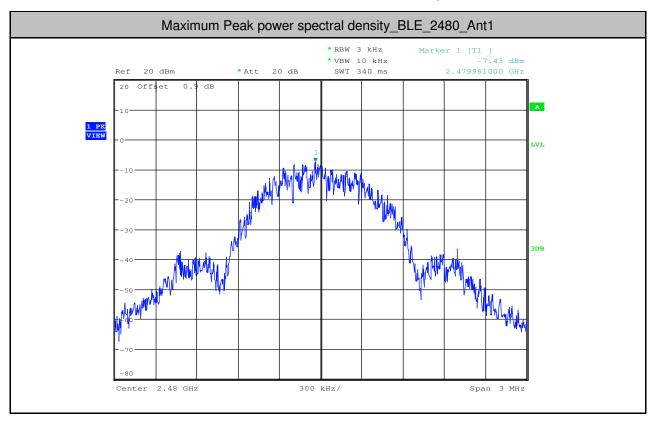
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4.Band-edge for RF Conducted Emissions

Test Mode	Test Channel	Ant	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
BLE	2402	Ant1	7.410	-54.996	<-12.59	PASS
BLE	2480	Ant1	7.770	-52.197	<-12.23	PASS



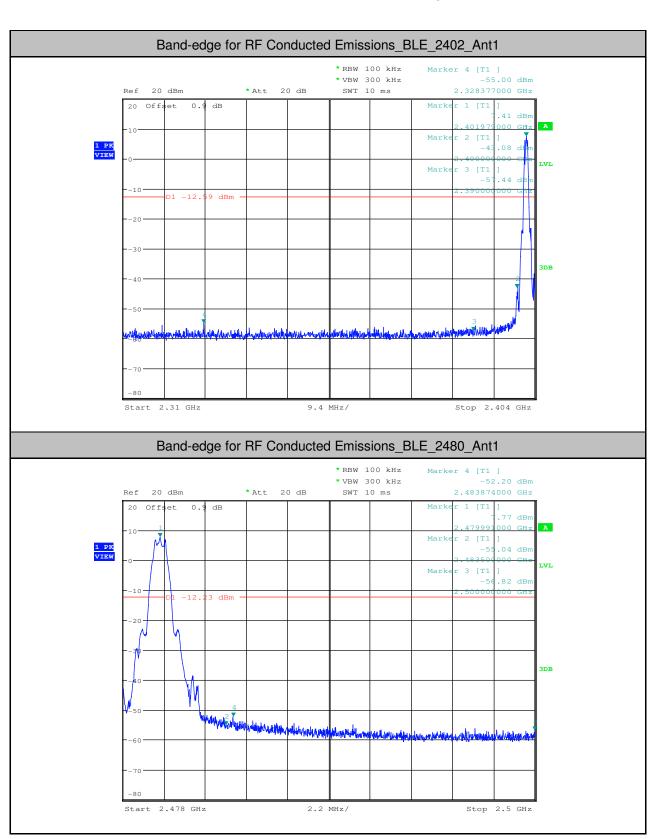
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5.RF Conducted Spurious Emissions

Test Mode	Test Channel	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BLE	2402	30	10000	100	300	7.46	-46.670	<-12.54	PASS
BLE	2402	10000	25000	100	300	7.46	-55.830	<-12.54	PASS
BLE	2440	30	10000	100	300	6.83	-49.410	<-13.17	PASS
BLE	2440	10000	25000	100	300	6.83	-55.610	<-13.17	PASS
BLE	2480	30	10000	100	300	8.01	-45.280	<-11.99	PASS
BLE	2480	10000	25000	100	300	8.01	-56.030	<-11.99	PASS



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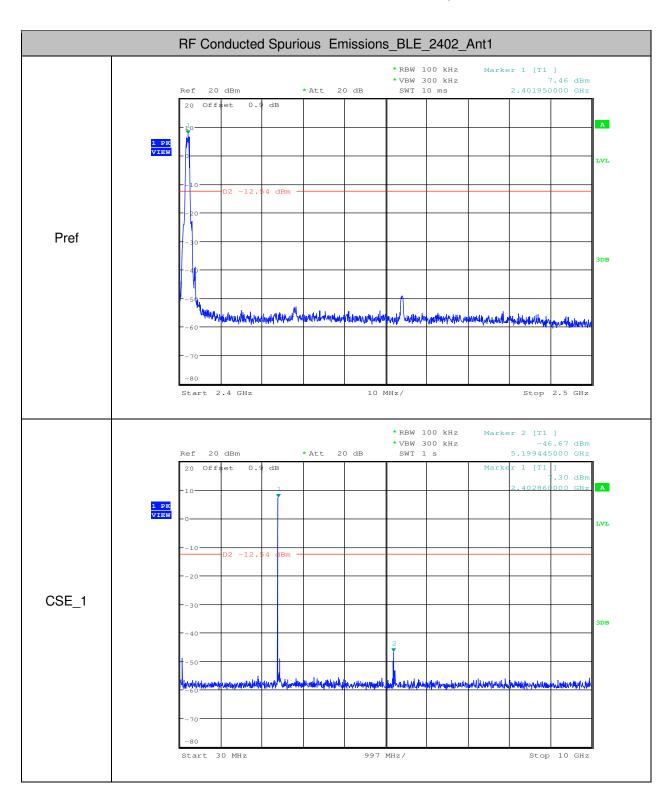
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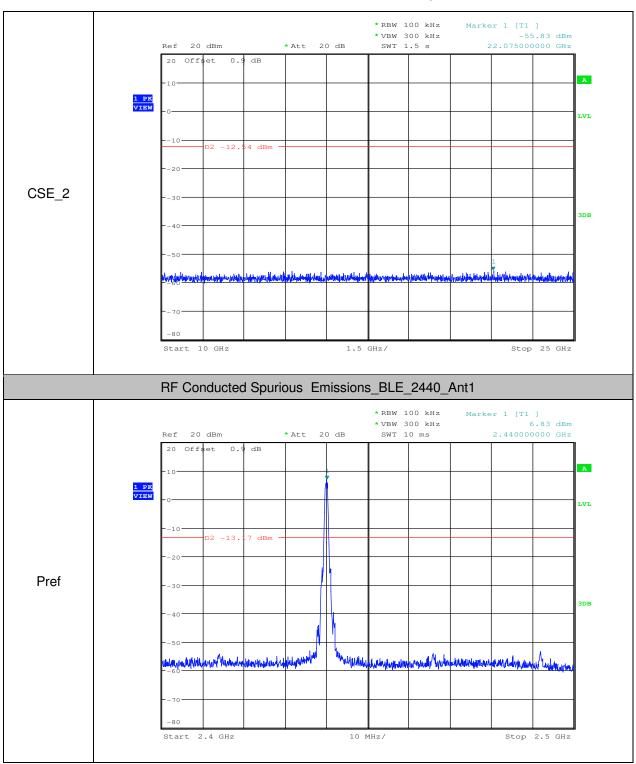
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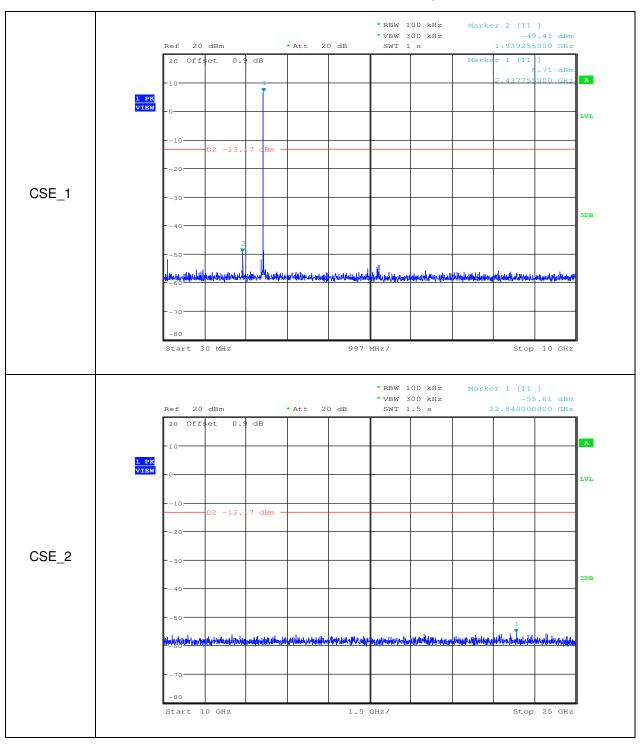
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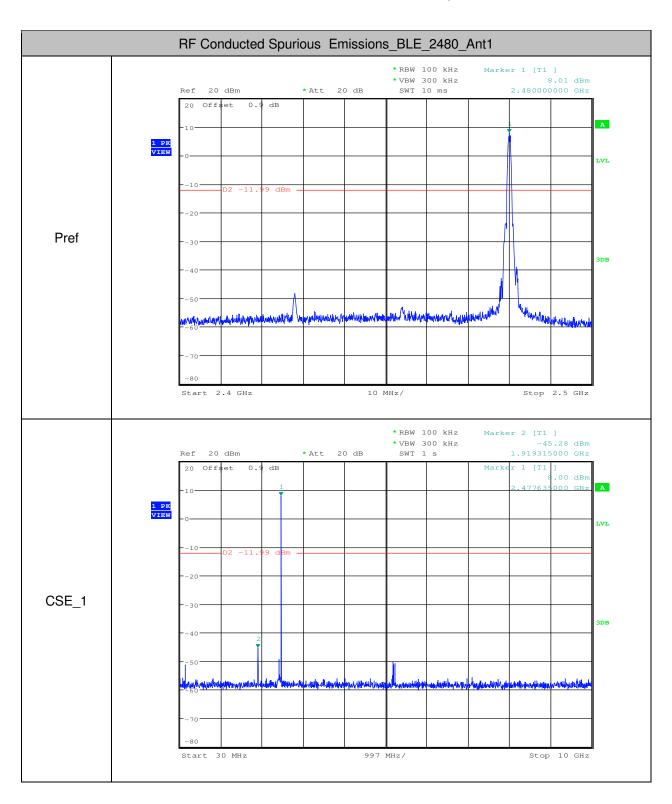
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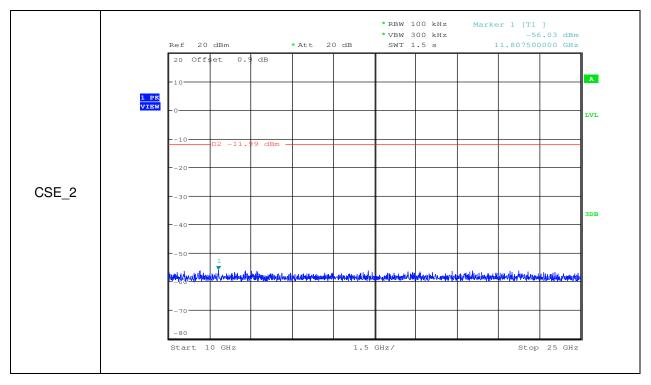
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9.2 Appendix 15.247-Right

1.6dB Bandwidth

Test Mode	Test Channel	Ant	EBW[MHz]	Limit[MHz]	Verdict
BLE	2402	Ant1	0.711	>=0.5	PASS
BLE	2440	Ant1	0.708	>=0.5	PASS
BLE	2480	Ant1	0.705	>=0.5	PASS



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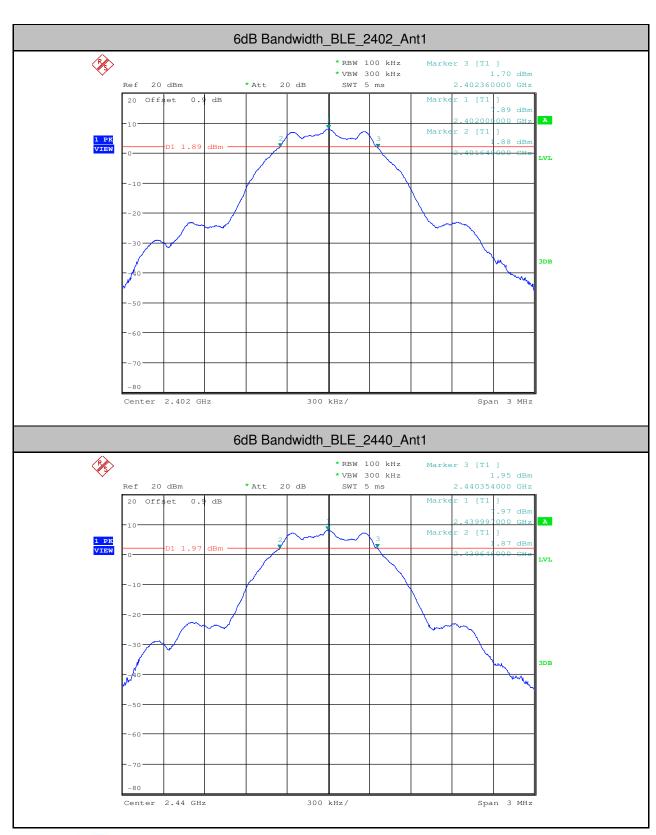
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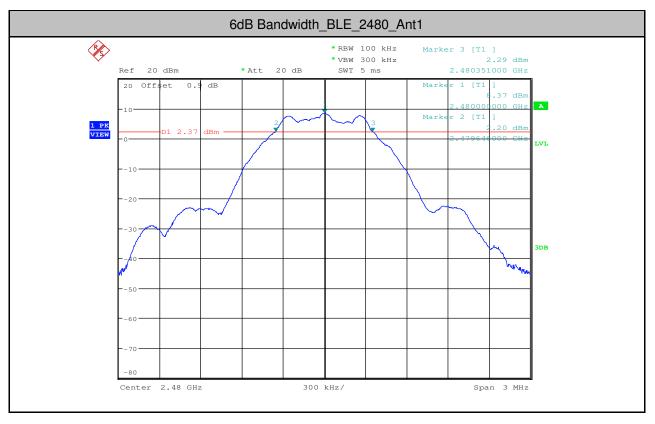
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2.Maximum peak conducted output power

Test Mode	Test Channel	Ant	Power Set:	Power[dBm]	Limit[dBm]	Verdict
BLE	2402	Ant1	8.23dBm by default	8.23	<30	PASS
BLE	2440	Ant1	8.3dBm by default	8.3	<30	PASS
BLE	2480	Ant1	8.86dBm by default	8.86	<30	PASS



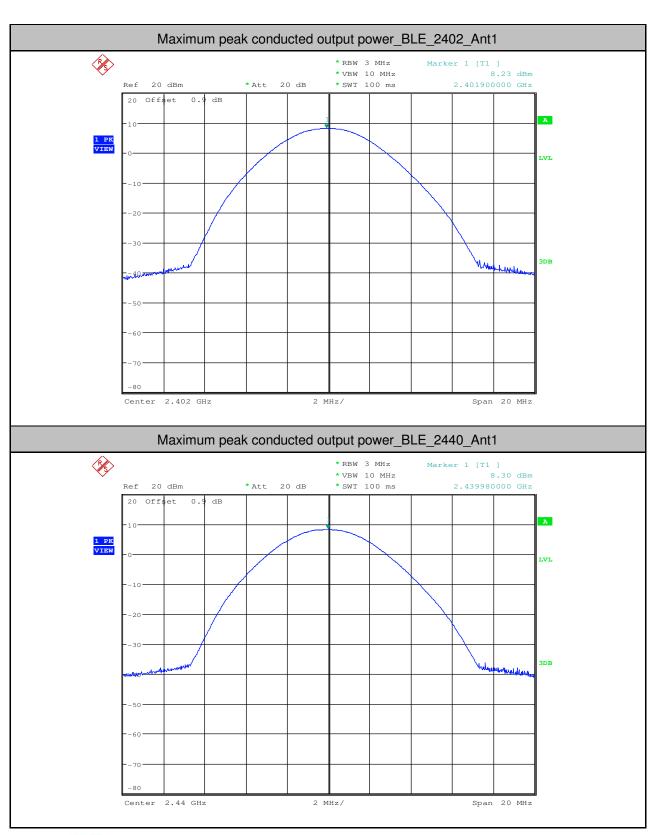
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3. Maximum Peak power spectral density

Test Mode	Test Channel	Ant	PSD[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	2402	Ant1	-7.14	<8.00	PASS
BLE	2440	Ant1	-7.14	<8.00	PASS
BLE	2480	Ant1	-6.69	<8.00	PASS



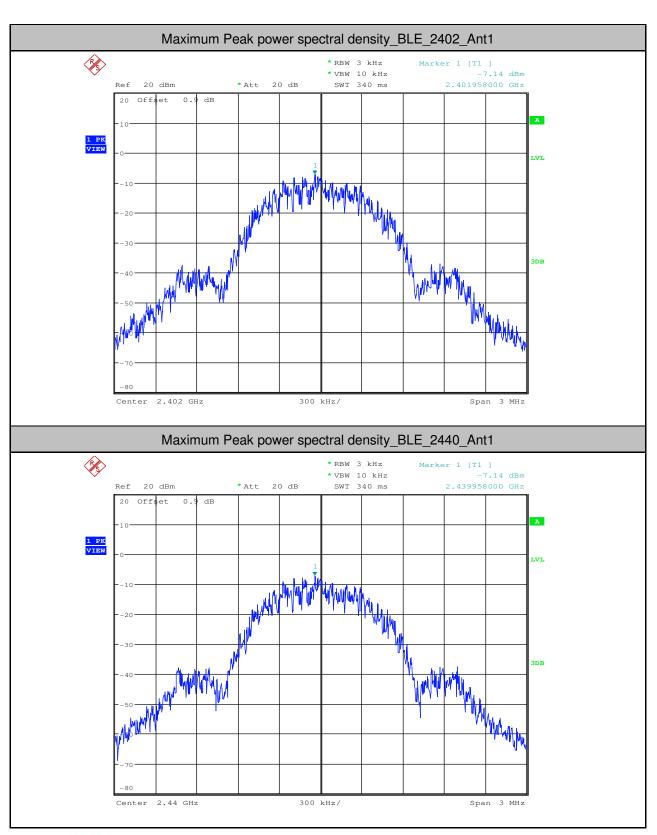
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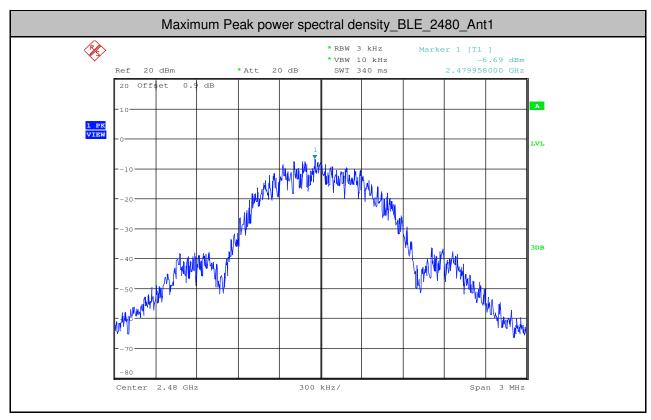
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4.Band-edge for RF Conducted Emissions

Test Mode	Test Channel	Ant	Carrier Power[dBm]	Level		Verdict
BLE	2402	Ant1	8.030	-55.945	<-11.97	PASS
BLE	2480	Ant1	8.270	-52.618	<-11.73	PASS



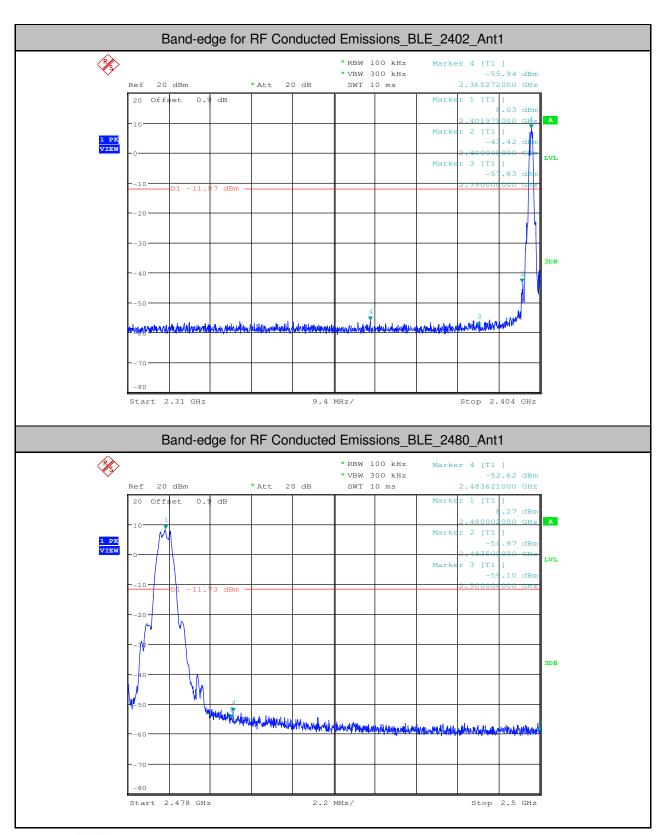
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5.RF Conducted Spurious Emissions

Test Mode	Test Channel	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BLE	2402	30	10000	100	300	8.07	-47.770	<-11.93	PASS
BLE	2402	10000	25000	100	300	8.07	-55.720	<-11.93	PASS
BLE	2440	30	10000	100	300	8.12	-45.170	<-11.88	PASS
BLE	2440	10000	25000	100	300	8.12	-55.600	<-11.88	PASS
BLE	2480	30	10000	100	300	8.59	-46.340	<-11.41	PASS
BLE	2480	10000	25000	100	300	8.59	-55.410	<-11.41	PASS



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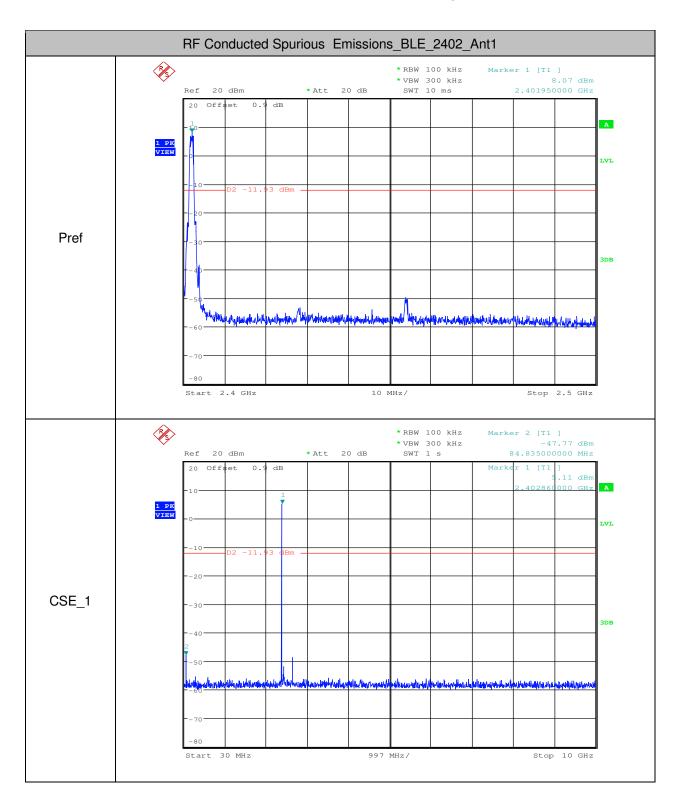
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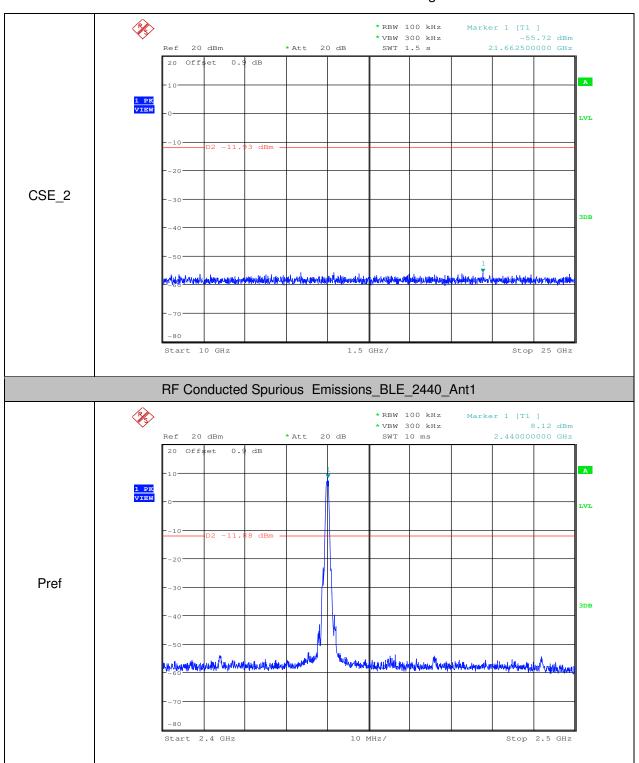
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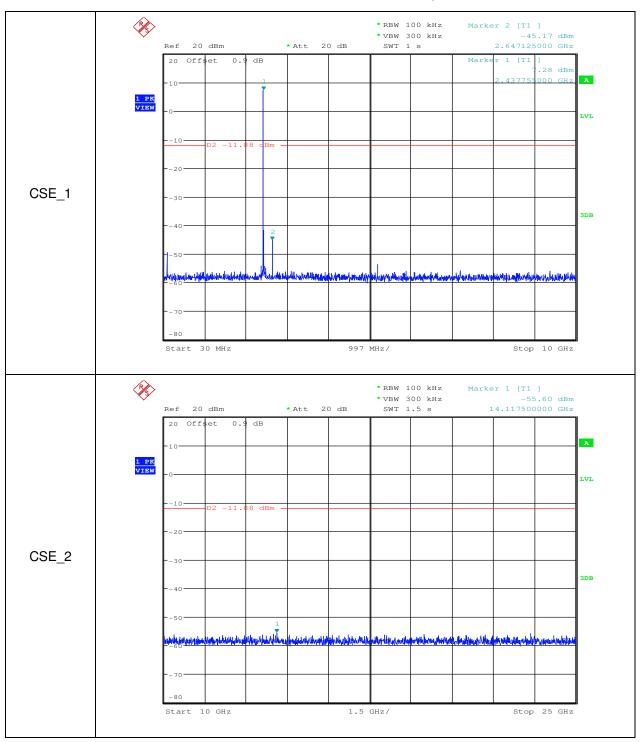
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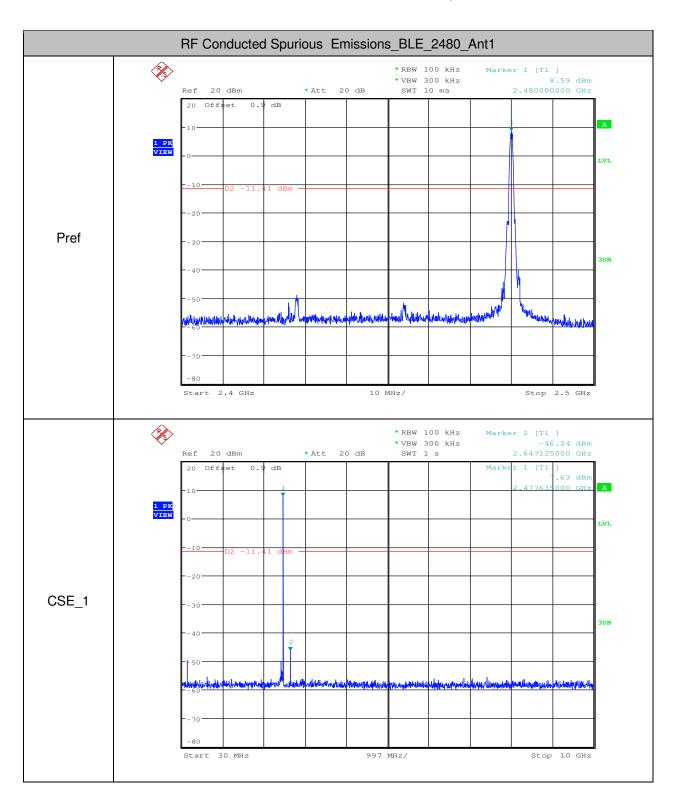
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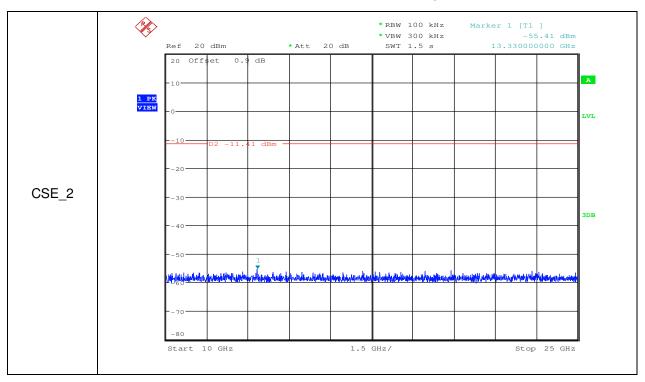
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