

Report No.: SZEM200700705403

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TEST REPORT

Application No.: SZEM2007007054CR

Applicant: Kingstate Electronics(DongGuan)Co.,Ltd.

Address of Applicant: Shi Chong Industrial Park, Shi Chong Avenue, Xiang Xi Village, Shi Pai

Town, Dongguan, China.

Manufacturer: Kingstate Electronics(DongGuan)Co.,Ltd.

Shi Chong Industrial Park, Shi Chong Avenue, Xiang Xi Village, Shi Pai Address of Manufacturer:

Town, Dongguan, China.

Factory: Kingstate Electronics(DongGuan)Co.,Ltd.

Shi Chong Industrial Park, Shi Chong Avenue, Xiang Xi Village, Shi Pai Address of Factory:

Town, Dongguan, China.

Equipment Under Test (EUT):

EUT Name: Truly wireless Earphones

Model No.: TW-E3B Trade Mark: YAMAHA

FCC ID: 2AKMBTWE3B

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

2020-07-25 **Date of Receipt:**

2020-08-01 to 2020-08-03 **Date of Test:**

Date of Issue: 2020-08-27

Pass* Test Result:

EMC Laboratory Manager

Ceny. 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 F								
01		2020-08-27		Original				

Authorized for issue by:		
	Hony Un	
	Harry Wu /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		
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			



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General Information

4.1 Details of E.U.T.

Earphone: Lithium Battery: DC3.7V,50mAh
Charge Case: Lithium Battery: DC3.7V,520mAh or DC5V, 0.5A
Type C cable, 30cm, unshielded
Z015200UW
2402MHz to 2480MHz
V5.0
GFSK
40
2MHz
1Mb/s, 2Mb/s
Chip Antenna
-4.69dBi

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Details of Sample setting.

RF software:	Bluetest 3.2
Software Power setting:	Tx Power: Default (The peak output power refer to Appendix 15-247)

4.4 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 Dadiated newer	± 4.5dB (Below 1GHz)
7	RF Radiated power	± 4.8dB (Above 1GHz)
8	Dedicted Courieus emission test	± 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%
12	Time	± 3%



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4.5 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.

4.6 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.

4.7 Deviation from Standards

4.8 Abnormalities from Standard Conditions

None



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Equipment List 5

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	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	TST	TST PASS V1.0.5	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09	
Attenuator	Huber+Suhner	6620_SMA-50- 1	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	

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	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	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	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



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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	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	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	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

Conducted Band Edges Measurement									
Equipment	Manufacturer	Model No	Model No Inventory No		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	TST	TST PASS V1.0.5	N/A	N/A	N/A				
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09				
Attenuator	Huber+Suhner	6620_SMA-50- 1	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				



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Conducted Spurious Emissions									
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	TST	TST PASS V1.0.5	N/A	N/A	N/A				
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09				
Attenuator	Huber+Suhner	6620_SMA-50- 1	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				

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	2020-07-10	2021-07-09				
EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08				
Horn Antenna	Rohde & Schwarz	HF907	HF907 SEM003-07		2021-04-12				
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16				
Pre-Amplifier Compliance Directions Syst		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	'''		SEM003-08	2020-08-14	2023-08-13				



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Radiated Spurious Emissions									
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	2020-07-10	2021-07-09				
EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08				
Horn Antenna	Rohde & Schwarz	HF907	HF907 SEM003-07		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		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	2020-08-14	2023-08-13				

Radiated Emissions Below 1GHz									
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date				
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18				
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A				
Coaxial Cable	SGS	N/A	SEM025-01	2020-07-10	2021-07-09				
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-15	2019-12-16	2020-12-15				
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23				
Pre-amplifier	Agilent Technologies	8447D	SEM005-01	2020-04-01	2021-03-31				



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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	2020-04-07	2021-04-06			



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6 Radio Spectrum Technical Requirement

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 -4.69dBi.

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: 29.8 °C Humidity: 41.2 % RH Atmospheric Pressure: 1010 mbar

Test modes: c:TX mode(Left Earphone,1Mb/s)_Keep the EUT in continuously transmitting

mode with GFSK modulation

g:TX mode(Right Earphone,1Mb/s)_Keep the EUT in continuously transmitting

mode with GFSK modulation

h:TX mode(Left Earphone,2Mb/s) Keep the EUT in continuously transmitting

mode with GFSK modulation

i:TX mode(Right Earphone,2Mb/s)_Keep the EUT in continuously transmitting

mode with GFSK modulation

7.1.2 Test Setup Diagram

Spectrum Analyzer E.U.T Non-Conducted Table

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

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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7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 29.8 °C Humidity: 41.2 % RH Atmospheric Pressure: 1010 mbar

c:TX mode(Left Earphone,1Mb/s)_Keep the EUT in continuously transmitting Test modes:

mode with GFSK modulation

g:TX mode(Right Earphone,1Mb/s)_Keep the EUT in continuously transmitting

mode with GFSK modulation

h:TX mode(Left Earphone,2Mb/s) Keep the EUT in continuously transmitting

mode with GFSK modulation

i:TX mode(Right Earphone, 2Mb/s) Keep the EUT in continuously transmitting

mode with GFSK modulation

7.2.2 Test Setup Diagram

Spectrum Analyzer E.U.T Non-Conducted Table

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: 29.8 °C Humidity: 41.2 % RH Atmospheric Pressure: 1010 mbar

Test modes: c:TX mode(Left Earphone,1Mb/s)_Keep the EUT in continuously transmitting

mode with GFSK modulation

g:TX mode(Right Earphone,1Mb/s)_Keep the EUT in continuously transmitting

mode with GFSK modulation

h:TX mode(Left Earphone,2Mb/s) Keep the EUT in continuously transmitting

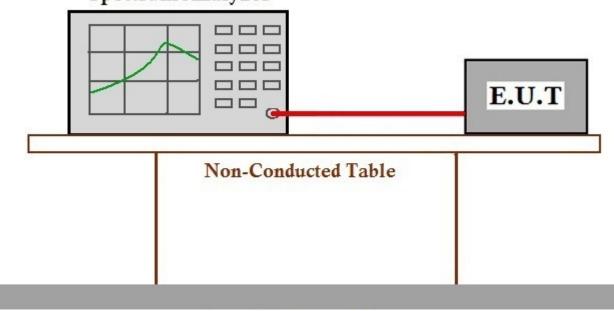
mode with GFSK modulation

i:TX mode(Right Earphone,2Mb/s)_Keep the EUT in continuously transmitting

mode with GFSK modulation

7.3.2 Test Setup Diagram

Spectrum Analyzer



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:

Temperature: 29.8 °C Humidity: 41.1 % RH Atmospheric Pressure: 1010 mbar

c:TX mode(Left Earphone,1Mb/s)_Keep the EUT in continuously transmitting Test modes:

mode with GFSK modulation

g:TX mode(Right Earphone,1Mb/s)_Keep the EUT in continuously transmitting

mode with GFSK modulation

h:TX mode(Left Earphone,2Mb/s) Keep the EUT in continuously transmitting

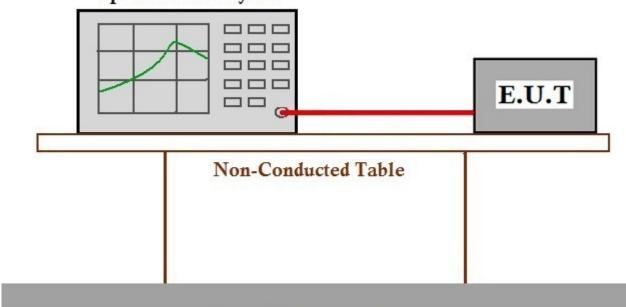
mode with GFSK modulation

i:TX mode(Right Earphone, 2Mb/s) Keep the EUT in continuously transmitting

mode with GFSK modulation

7.4.2 Test Setup Diagram

Spectrum Analyzer



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:

Temperature: 29.8 °C Humidity: 41.1 % RH Atmospheric Pressure: 1010 mbar

c:TX mode(Left Earphone,1Mb/s)_Keep the EUT in continuously transmitting Test modes:

mode with GFSK modulation

g:TX mode(Right Earphone,1Mb/s)_Keep the EUT in continuously transmitting

mode with GFSK modulation

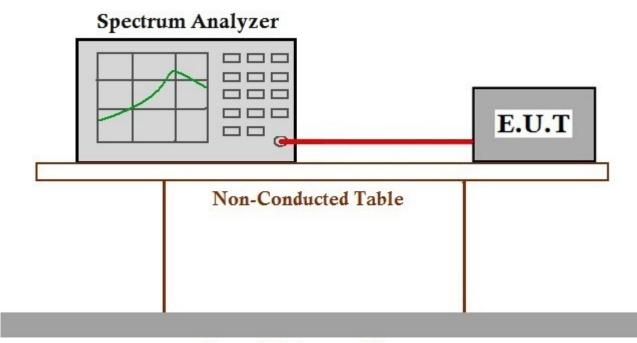
h:TX mode(Left Earphone,2Mb/s) Keep the EUT in continuously transmitting

mode with GFSK modulation

i:TX mode(Right Earphone, 2Mb/s) 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 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.



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7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 58.1 % RH Atmospheric Pressure: 1010 mbar

Test modes: c:TX mode(Left Earphone,1Mb/s)_Keep the EUT in continuously transmitting

mode with GFSK modulation

g:TX mode(Right Earphone,1Mb/s)_Keep the EUT in continuously transmitting

mode with GFSK modulation

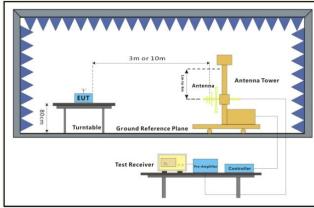
h:TX mode(Left Earphone,2Mb/s) Keep the EUT in continuously transmitting

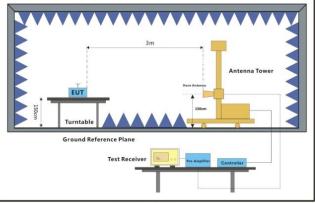
mode with GFSK modulation

i:TX mode(Right Earphone, 2Mb/s) Keep the EUT in continuously transmitting

mode with GFSK modulation

7.6.2 Test Setup Diagram





30MHz-1GHz

Above 1GHz



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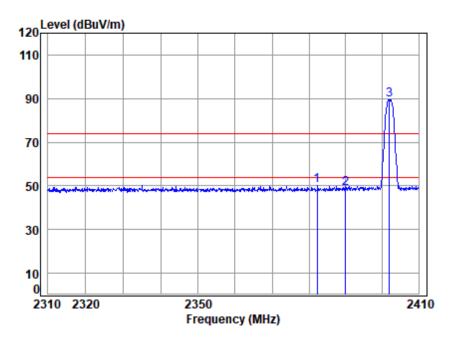
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Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 07054CR/07055CR Mode : 2402 Band edge

: BLE1M 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	2382.278	4.33	28.51	40.97	58.19	50.06	74.00	-23.94	peak	
2	2390.000	4.34	28.52	40.97	56.75	48.64	74.00	-25.36	peak	
3 *	4 2402.000	4.36	28.54	40.98	97.31	89.23	74.00	15.23	peak	



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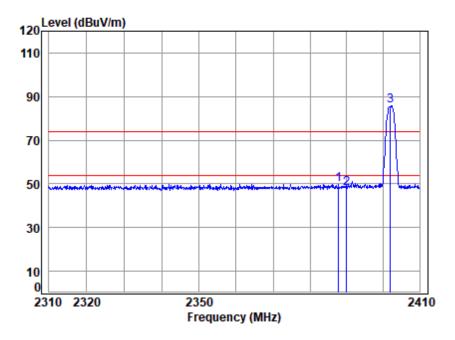
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Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 07054CR/07055CR Mode : 2402 Band edge

Note : BLE1M 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	2387.736	4.34	28.51	40.97	58.07	49.95	74.00	-24.05	peak
2	2390.000	4.34	28.52	40.97	56.10	47.99	74.00	-26.01	peak
3 *	2402.000	4.36	28.54	40.98	93.66	85.58	74.00	11.58	peak



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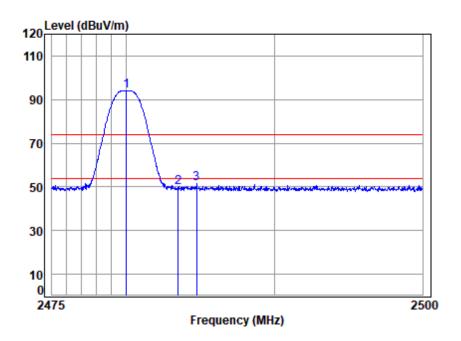
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Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 07054CR/07055CR : 2480 Band edge Mode

Note : BLE1M L

000										
		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	4.49	28.67	41.01	101.90	94.05	74.00	20.05	peak	
2	2483.500	4.49	28.67	41.01	57.44	49.59	74.00	-24.41	peak	
3	2484.720	4.50	28.68	41.01	59.17	51.34	74.00	-22.66	peak	



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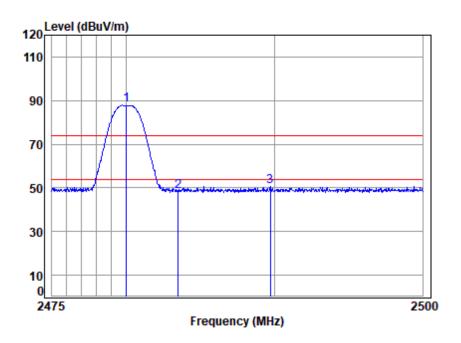
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Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 07054CR/07055CR Mode : 2480 Band edge

Note : BLE1M 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 *	2480.000	4.49	28.67	41.01	95.69	87.84	74.00	13.84	peak
2	2483.500	4.49	28.67	41.01	56.28	48.43	74.00	-25.57	peak
3	2489.719	4.50	28.68	41.01	58.60	50.77	74.00	-23.23	peak



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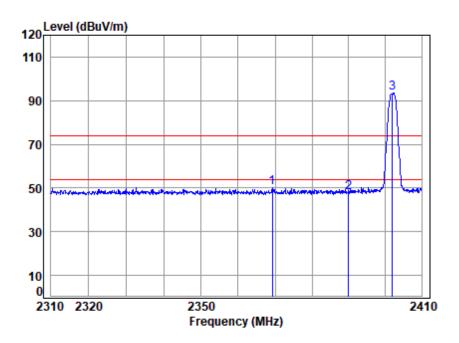
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Mode:g; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 07054CR/07055CR : 2402 Band edge Mode

Note : BLE1M 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 2369.189	4.31	28.48	40.96	58.50	50.33	74.00	-23.67	peak
2 2390.000	4.34	28.52	40.97	56.14	48.03	74.00	-25.97	peak
3 * 2402.000	4.36	28.54	40.98	101.42	93.34	74.00	19.34	peak



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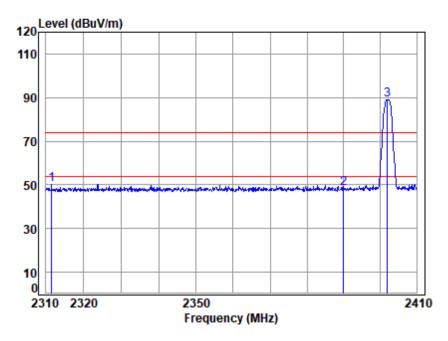
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Mode:g; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 07054CR/07055CR Mode : 2402 Band edge

: BLE1M R Note

	Freq			Preamp Factor					Remark
				——dB				dB	
1	2311.469						•	-23.60	neak
2	2390.000	4.34	28.52	40.97	56.30	48.19	74.00	-25.81	peak
3 *	2402.000	4.36	28.54	40.98	97.19	89.11	74.00	15.11	peak



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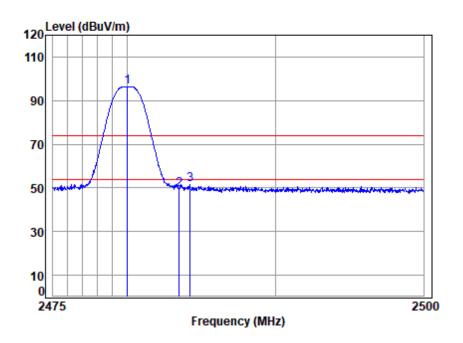
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Report No.: SZEM200700705403

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



Site : chamber

Condition: 3m HORIZONTAL Job No : 07054CR/07055CR Mode : 2480 Band edge

Note : BLE1M 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 * 2480.000	4.49	28.67	41.01	104.22	96.37	74.00	22.37	peak
2 2483.500	4.49	28.67	41.01	57.23	49.38	74.00	-24.62	peak
3 2484.221	4.50	28.67	41.01	59.30	51.46	74.00	-22.54	peak



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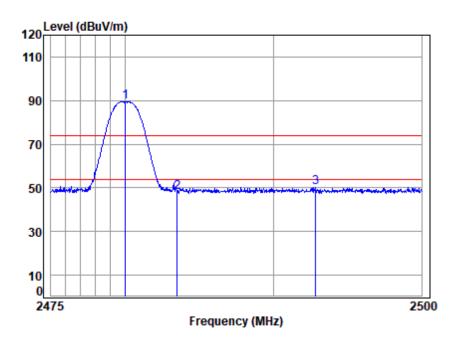
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Mode:g; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 07054CR/07055CR Mode : 2480 Band edge

Note : BLE1M 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 *	2480.000	4.49	28.67	41.01	97.17	89.32	74.00	15.32	peak
2	2483.500	4.49	28.67	41.01	55.90	48.05	74.00	-25.95	peak
3	2492.824	4.51	28.69	41.01	57.96	50.15	74.00	-23.85	peak



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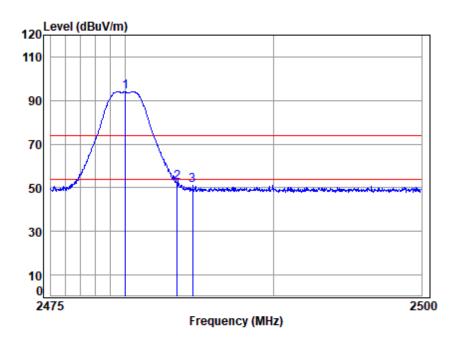
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Mode:h; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 07054CR/07055CR Job No Mode : 2480 Band edge

Note : BLE2M L

	Freq				Read Level				Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2	2480.000 2483.500 2484.545	4.49	28.67	41.01	60.35	52.50	74.00	-21.50	peak



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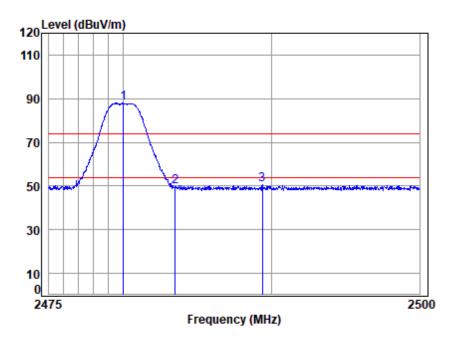
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Mode:h; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 07054CR/07055CR : 2480 Band edge Mode

Note : BLE2M 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	*	2480.000	4.49	28.67	41.01	95.76	87.91	74.00	13.91	peak
2		2483.500	4.49	28.67	41.01	57.59	49.74	74.00	-24.26	peak
3		2489.369	4.50	28.68	41.01	58.64	50.81	74.00	-23.19	peak



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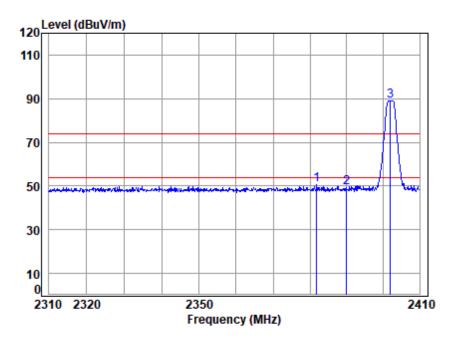
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Mode:h; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 07054CR/07055CR : 2402 Band edge Mode

Note : BLE2M L

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2	2381.874 2390.000 2402.000	4.34	28.52	40.97	57.44	49.33	74.00	-24.67	peak



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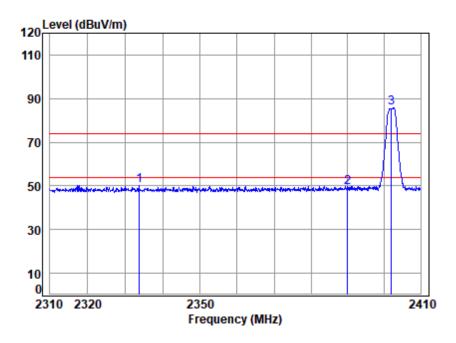
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Mode:h; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 07054CR/07055CR Mode : 2402 Band edge

Note : BLE2M 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	2333.714	4.25	28.42	40.95	58.37	50.09	74.00	-23.91	peak
2	2390.000	4.34	28.52	40.97	57.40	49.29	74.00	-24.71	peak
3 *	2402.000	4.36	28.54	40.98	93.79	85.71	74.00	11.71	peak



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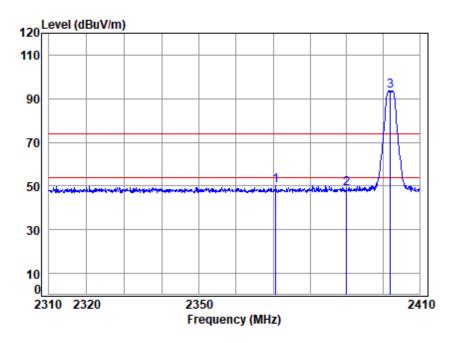
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Mode:i; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 07054CR/07055CR : 2402 Band edge Mode

Note : BLE2M R

	Freq		Ant Factor						Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2	2370.696 2390.000 2402.000	4.34	28.52	40.97	56.90	48.79	74.00	-25.21	peak



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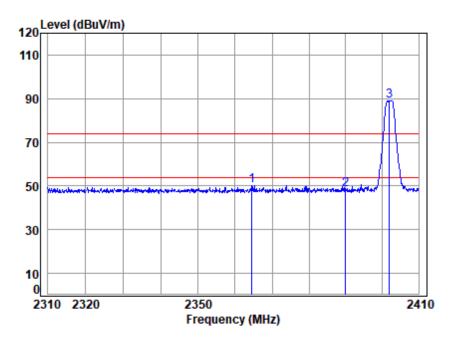
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Mode:i; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 07054CR/07055CR : 2402 Band edge Mode

Note : BLE2M 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	2364.575	4.30	28.48	40.96	58.49	50.31	74.00	-23.69	peak
2	2390.000	4.34	28.52	40.97	56.35	48.24	74.00	-25.76	peak
3 *	2402.000	4.36	28.54	40.98	97.25	89.17	74.00	15.17	peak



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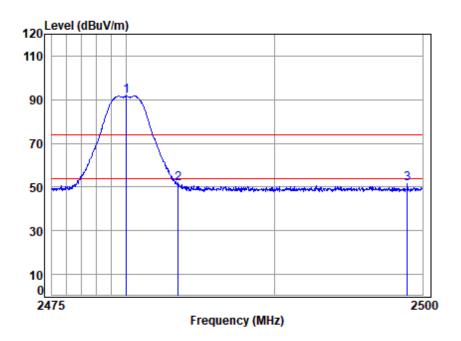
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Mode:i; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 07054CR\07055CR : 2480 Band edge Mode

Note : BLE 2M R

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2	2480.000 2483.500 2498.970	4.49	28.67	41.01	59.52	51.67	74.00	-22.33	peak



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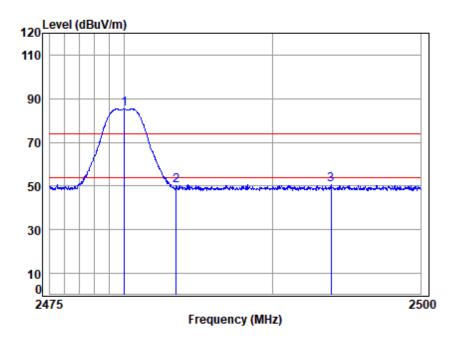
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Mode:i; Polarization:Vertical; Modulation:GFSK; ; Channel:High



: chamber Site Condition: 3m VERTICAL : 07054CR\07055CR

: 2480 Band edge Note : BLE 2M R

Mode

Cable Ant Preamp Limit Read 0ver Limit Remark Freq Loss Factor Factor Level Level Line MHz dB dB/m dBuV dBuV/m dBuV/m 1 * 2480.000 4.49 28.67 41.01 93.14 85.29 74.00 11.29 peak 2 2483.500 4.49 28.67 41.01 57.98 50.13 74.00 -23.87 peak 2493.952 4.51 28.69 41.02 58.57 50.75 74.00 -23.25 peak



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7.7 Radiated Spurious Emissions

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



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7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 25.1 °C Humidity: 64.3 % RH Atmospheric Pressure: 1010 mbar

Test modes: c:TX mode(Left Earphone,1Mb/s)_Keep the EUT in continuously transmitting

mode with GFSK modulation

g:TX mode(Right Earphone,1Mb/s) Keep the EUT in continuously transmitting

mode with GFSK modulation

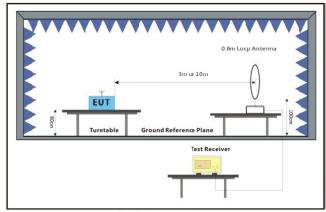
h:TX mode(Left Earphone,2Mb/s)_Keep the EUT in continuously transmitting

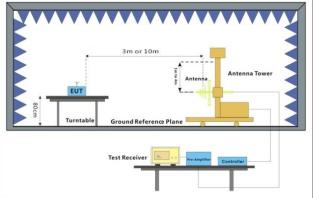
mode with GFSK modulation

i:TX mode(Right Earphone, 2Mb/s) Keep the EUT in continuously transmitting

mode with GFSK modulation

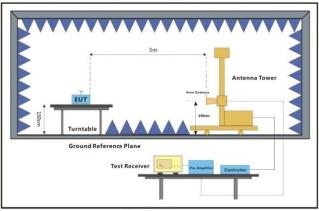
7.7.2 Test Setup Diagram





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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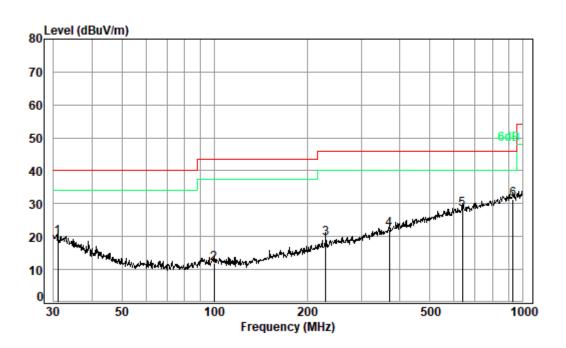


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Left Earphone: 30MHz~1GHz QP value:

Mode: c; Polarization: Horizontal;



Condition: 3m HORIZONTAL

Job No. : 07054CR

Mode

	Freq			Preamp Factor					Remark
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.96	0.61	21.95	27.73	25.03	19.86	40.00	-20.14	QP
2	99.53	1.11	13.96	27.61	24.53	11.99	43.50	-31.51	QP
3	230.10	1.48	18.03	27.05	26.87	19.33	46.00	-26.67	QP
4	369.40	2.22	21.63	27.25	25.48	22.08	46.00	-23.92	QP
5	638.37	2.78	27.12	28.04	26.38	28.24	46.00	-17.76	QP
6 pp	932.27	3.53	29.97	27.00	24.87	31.37	46.00	-14.63	ÓР



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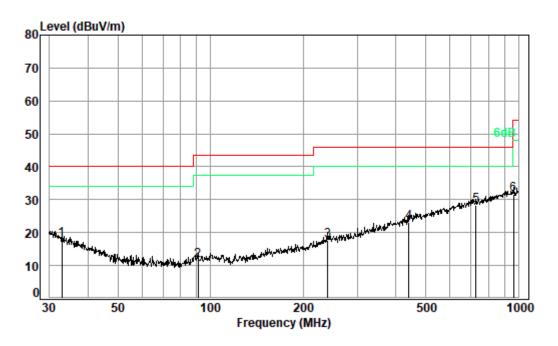
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Mode :c; Polarization: Vertical



Condition: 3m VERTICAL Job No. : 07054CR

Mode : c

	Freq			Preamp Factor					Remark
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	32.86	0.63	20.92	27.73	24.05	17.87	40.00	-22.13	QP
2	91.17	1.28	13.21	27.62	24.69	11.56	43.50	-31.94	QP
3	239.99	1.56	18.80	27.02	24.30	17.64	46.00	-28.36	QP
4	440.20	2.39	23.34	27.57	25.09	23.25	46.00	-22.75	QP
5 pp	726.81	3.01	28.07	27.86	25.02	28.24	46.00	-17.76	QP
6	965.54	3.57	30.13	26.83	24.75	31.62	54.00	-22.38	QP



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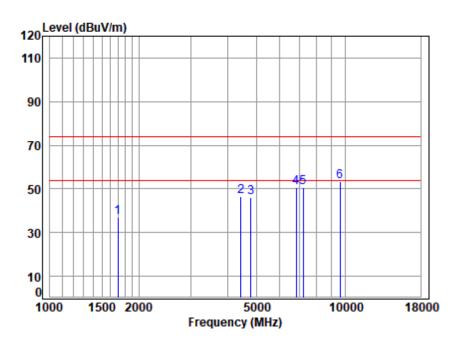


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Above 1GHz

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



Site : chamber

Condition: 3m HORIZONTAL Job No : 07054CR\07055CR

: 2402 TX SE Mode : BLE 1M 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	1697.129	3.43	26.66	40.63	47.34	36.80	74.00	-37.20	peak
2	4443.453	6.71	33.50	42.51	48.68	46.38	74.00	-27.62	peak
3	4804.000	7.10	33.97	42.77	47.74	46.04	74.00	-27.96	peak
4	6815.551	8.45	35.79	41.78	48.35	50.81	74.00	-23.19	peak
5	7206.000	8.74	36.07	41.58	47.21	50.44	74.00	-23.56	peak
6	9608.000	10.81	37.67	38.57	43.45	53.36	74.00	-20.64	peak



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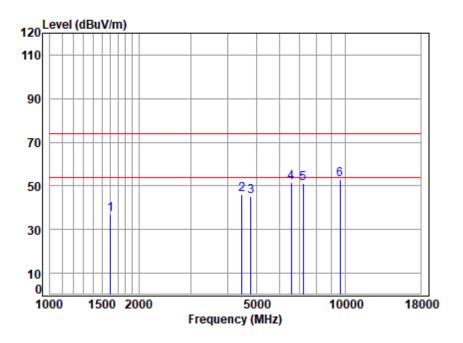
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Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 07054CR\07055CR

: 2402 TX SE Mode : BLE 1M 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	1606.441	3.35	26.28	40.57	47.89	36.95	74.00	-37.05	peak
2	4469.214	6.73	33.55	42.53	48.39	46.14	74.00	-27.86	peak
3	4804.000	7.10	33.97	42.77	46.93	45.23	74.00	-28.77	peak
4	6564.209	8.31	35.64	41.92	49.43	51.46	74.00	-22.54	peak
5	7206.000	8.74	36.07	41.58	47.80	51.03	74.00	-22.97	peak
6	9608.000	10.81	37.67	38.57	43.18	53.09	74.00	-20.91	peak



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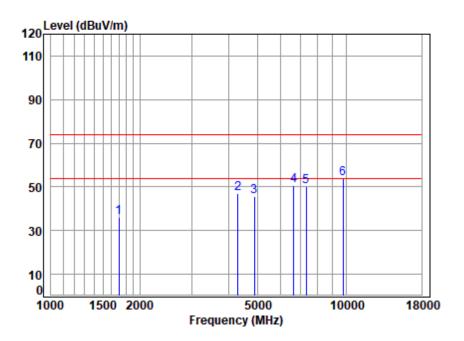
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Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 07054CR\07055CR

: 2440 TX SE Mode : BLE 1M 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	1702.042	3.43	26.68	40.63	46.70	36.18	74.00	-37.82	peak
2	4304.400	6.58	33.26	42.40	49.61	47.05	74.00	-26.95	peak
3	4880.000	7.18	34.06	42.82	47.40	45.82	74.00	-28.18	peak
4	6640.542	8.36	35.69	41.87	48.45	50.63	74.00	-23.37	peak
5	7320.000	8.84	36.16	41.52	46.90	50.38	74.00	-23.62	peak
6	9760.000	10.76	37.76	38.35	43.64	53.81	74.00	-20.19	peak



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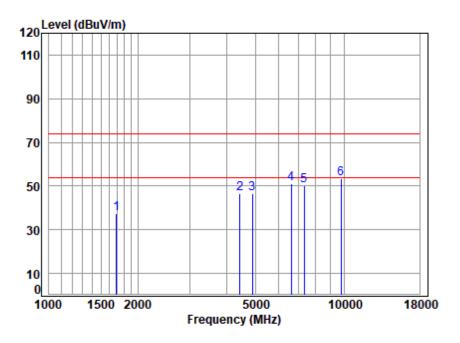
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Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:middle



Site : chamber Condition: 3m VERTICAL

Job No : 07054CR\07055CR

: 2440 TX SE Mode Note : BLE 1M 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	
	4600 034	2.40	25.54	40.63	47.04		74.00	26.62	
1	1692.231	3.42	26.64	40.63	47.94	3/.3/	74.00	-36.63	peak
2	4430.628	6.70	33.48	42.50	48.95	46.63	74.00	-27.37	peak
3	4880.000	7.18	34.06	42.82	47.98	46.40	74.00	-27.60	peak
4	6621.375	8.34	35.67	41.88	48.86	50.99	74.00	-23.01	peak
5	7320.000	8.84	36.16	41.52	46.91	50.39	74.00	-23.61	peak
6	9760.000	10.76	37.76	38.35	43.10	53.27	74.00	-20.73	peak



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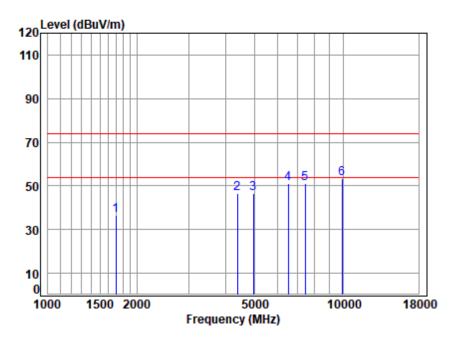
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Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 07054CR\07055CR

: 2480 TX SE Mode Note : BLE 1M 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	3.43	26.66	40.63	47.01	36.47	74.00	-37.53	peak
2	4392.376	6.66	33.42	42.47	49.00	46.61	74.00	-27.39	peak
3	4960.000	7.26	34.15	42.87	47.85	46.39	74.00	-27.61	peak
4	6526.373	8.29	35.62	41.94	49.27	51.24	74.00	-22.76	peak
5	7440.000	8.96	36.25	41.46	47.14	50.89	74.00	-23.11	peak
6	9920.000	10.71	37.85	38.12	43.05	53.49	74.00	-20.51	peak



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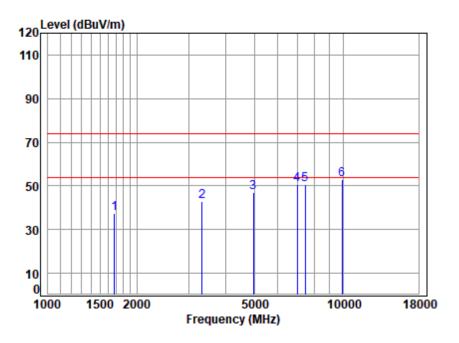
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Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 07054CR\07055CR

: 2480 TX SE Mode : BLE 1M 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	d Bu V/m	dB	
1	1677.621	3.41	26.58	40.62	48.05	37.42	74.00	-36.58	peak
2	3328.077	5.30	31.44	41.55	47.52	42.71	74.00	-31.29	peak
3	4960.000	7.26	34.15	42.87	48.34	46.88	74.00	-27.12	peak
4	6995.172	8.54	35.90	41.69	48.09	50.84	74.00	-23.16	peak
5	7440.000	8.96	36.25	41.46	46.98	50.73	74.00	-23.27	peak
6	9920.000	10.71	37.85	38.12	42.29	52.73	74.00	-21.27	peak



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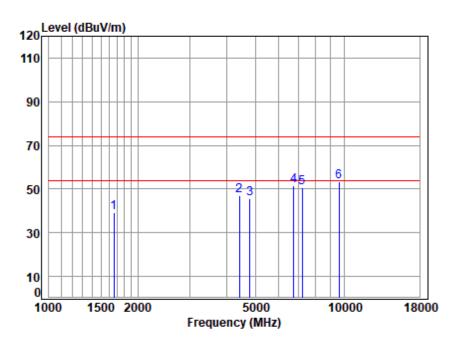
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Mode:h; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 07054CR\07055CR

: 2402 TX SE Mode Note : BLE 2M 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	1663.137	3.40	26.52	40.61	49.78	39.09	74.00	-34.91	peak
2	4417.841	6.68	33.46	42.49	49.46	47.11	74.00	-26.89	peak
3	4804.000	7.10	33.97	42.77	47.27	45.57	74.00	-28.43	peak
4	6756.708	8.42	35.76	41.81	49.26	51.63	74.00	-22.37	peak
5	7206.000	8.74	36.07	41.58	47.62	50.85	74.00	-23.15	peak
6	9608.000	10.81	37.67	38.57	43.49	53.40	74.00	-20.60	peak



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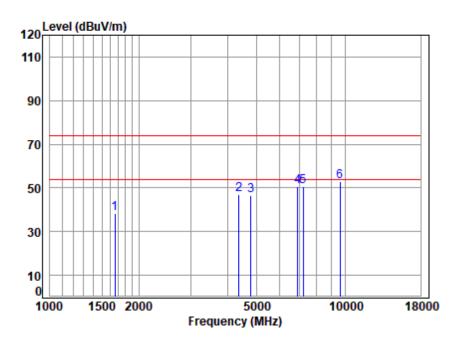
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Mode:h; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 07054CR\07055CR

: 2402 TX SE Mode : BLE 2M 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	1658.337	3.40	26.50	40.61	49.15	38.44	74.00	-35.56	peak
2	4367.058	6.64	33.37	42.45	49.43	46.99	74.00	-27.01	peak
3	4804.000	7.10	33.97	42.77	48.38	46.68	74.00	-27.32	peak
4	6894.806	8.49	35.84	41.74	47.93	50.52	74.00	-23.48	peak
5	7206.000	8.74	36.07	41.58	47.32	50.55	74.00	-23.45	peak
6	9608.000	10.81	37.67	38.57	43.22	53.13	74.00	-20.87	peak



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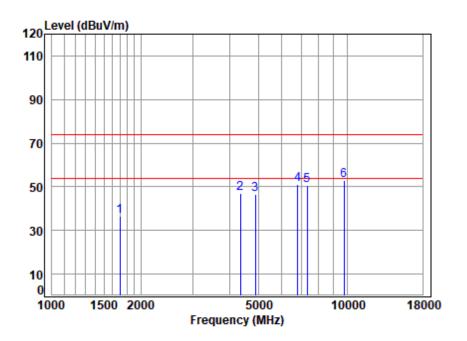
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Mode:h; Polarization:Horizontal; Modulation:GFSK; ; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL : 07054CR\07055CR Job No

Mode : 2440 TX SE Note : BLE 2M 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	3.43	26.66	40.63	47.13	36.59	74.00	-37.41	peak
2	4354.454	6.63	33.35	42.44	49.34	46.88	74.00	-27.12	peak
3	4880.000	7.18	34.06	42.82	48.12	46.54	74.00	-27.46	peak
4	6795.879	8.44	35.78	41.79	48.66	51.09	74.00	-22.91	peak
5	7320.000	8.84	36.16	41.52	47.25	50.73	74.00	-23.27	peak
6	9760.000	10.76	37.76	38.35	42.98	53.15	74.00	-20.85	peak



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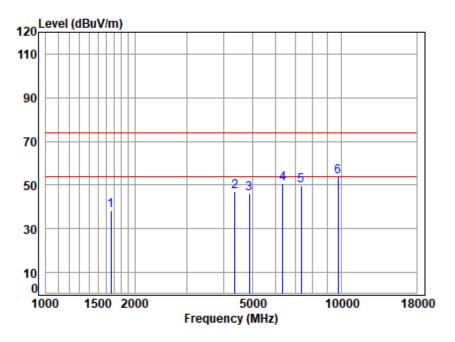
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Mode:h; Polarization:Vertical; Modulation:GFSK; ; Channel:middle



Site : chamber Condition: 3m VERTICAL

Job No : 07054CR\07055CR

: 2440 TX SE Mode : BLE 2M 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	1663.137	3.40	26.52	40.61	49.15	38.46	74.00	-35.54	peak
2	4367.058	6.64	33.37	42.45	49.24	46.80	74.00	-27.20	peak
3	4880.000	7.18	34.06	42.82	47.83	46.25	74.00	-27.75	peak
4	6340.436	8.27	35.44	42.04	49.11	50.78	74.00	-23.22	peak
5	7320.000	8.84	36.16	41.52	46.26	49.74	74.00	-24.26	peak
6	9760.000	10.76	37.76	38.35	43.49	53.66	74.00	-20.34	peak



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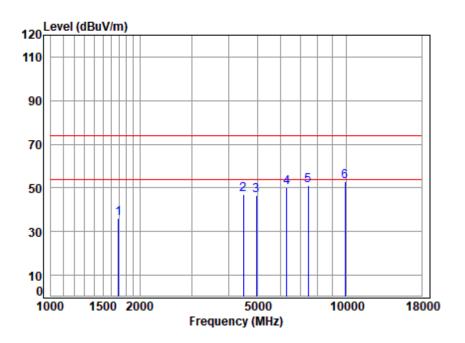
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Mode:h; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 07054CR\07055CR

: 2480 TX SE Mode : BLE 2M 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	d Bu V/m	dB	
1	1692.231	3.42	26.64	40.63	46.70	36.13	74.00	-37.87	peak
2	4482.150	6.74	33.57	42.54	49.10	46.87	74.00	-27.13	peak
3	4960.000	7.26	34.15	42.87	47.92	46.46	74.00	-27.54	peak
4	6303.890	8.27	35.41	42.06	48.72	50.34	74.00	-23.66	peak
5	7440.000	8.96	36.25	41.46	47.25	51.00	74.00	-23.00	peak
6	9920.000	10.71	37.85	38.12	42.30	52.74	74.00	-21.26	peak



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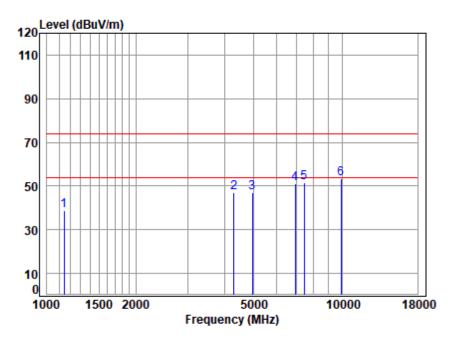
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Mode:h; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 07054CR\07055CR

: 2480 TX SE Mode Note : BLE 2M 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	1145.507	2.66	24.34	40.24	52.20	38.96	74.00	-35.04	peak
2	4304.400	6.58	33.26	42.40	49.41	46.85	74.00	-27.15	peak
3	4960.000	7.26	34.15	42.87	48.51	47.05	74.00	-26.95	peak
4	6934.778	8.51	35.86	41.72	48.28	50.93	74.00	-23.07	peak
5	7440.000	8.96	36.25	41.46	47.70	51.45	74.00	-22.55	peak
6	9920.000	10.71	37.85	38.12	42.92	53.36	74.00	-20.64	neak



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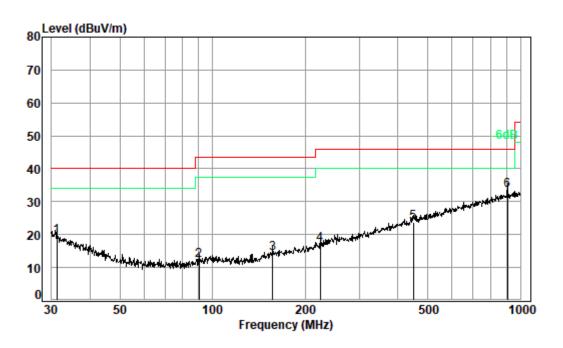


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Right Earphone 30MHz~1GHz QP value:

Mode: g; Polarization: Horizontal;



Condition: 3m HORIZONTAL

Job No. : 07054CR

Mode

	. 0								
		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	0.61	21.83	27.73	24.83	19.54	40.00	-20.46	QP
2	90.54	1.29	13.15	27.62	25.25	12.07	43.50	-31.43	QP
3	157.01	1.17	15.25	27.31	25.26	14.37	43.50	-29.13	QP
4	223.73	1.42	17.51	27.07	25.20	17.06	46.00	-28.94	QP
5	449.56	2.40	23.55	27.61	25.46	23.80	46.00	-22.20	QP
6 pp	906.48	3.51	29.83	27.13	27.32	33.53	46.00	-12.47	QP



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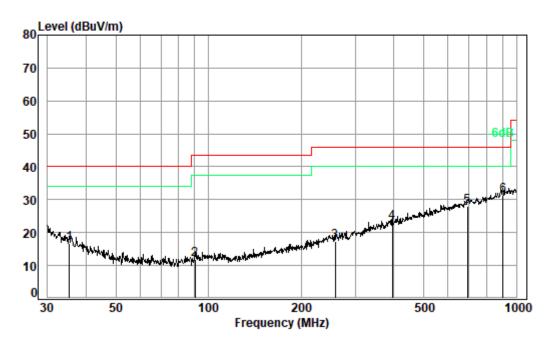
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Mode:g; Polarization: Vertical



Condition: 3m VERTICAL

Job No. : 07054CR

Mode : g

		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	35.38	0.66	19.64	27.72	24.22	16.80	40.00	-23.20	QP
2	90.54	1.29	13.15	27.62	25.16	11.98	43.50	-31.52	QP
3	258.33	1.70	19.08	26.97	23.67	17.48	46.00	-28.52	QP
4	394.85	2.29	22.27	27.37	25.81	23.00	46.00	-23.00	QP
5	694.42	2.89	27.83	27.93	25.32	28.11	46.00	-17.89	QP
6 pp	903.31	3.50	29.82	27.15	25.21	31.38	46.00	-14.62	OP



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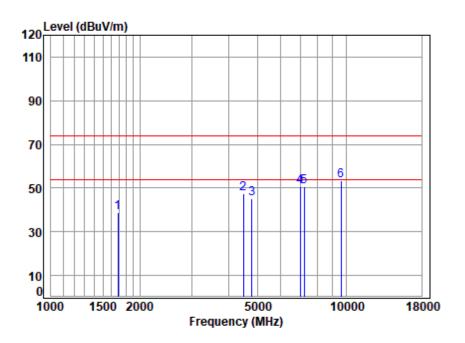


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Above 1GHz

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



Site : chamber

Condition: 3m HORIZONTAL Job No : 07054CR\07055CR

: 2402 TX SE Mode Note : BLE 1M 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	1687.347	3.42	26.62	40.62	49.54	38.96	74.00	-35.04	peak
2	4495.125	6.76	33.59	42.55	49.67	47.47	74.00	-26.53	peak
3	4804.000	7.10	33.97	42.77	46.69	44.99	74.00	-29.01	peak
4	6974.982	8.53	35.89	41.70	47.96	50.68	74.00	-23.32	peak
5	7206.000	8.74	36.07	41.58	47.47	50.70	74.00	-23.30	peak
6	9608.000	10.81	37.67	38.57	43.33	53.24	74.00	-20.76	peak



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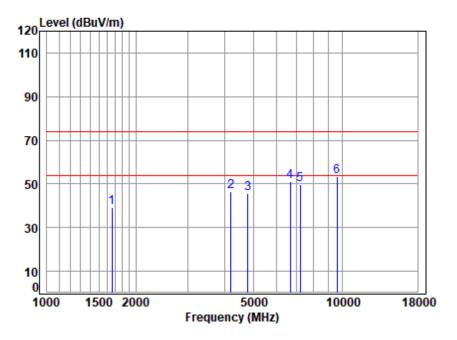
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Mode:g; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 07054CR\07055CR

: 2402 TX SE Mode : BLE 1M 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	
						20.20	7		
1	1663.137	3.40	26.52	40.61	50.07	39.38	/4.00	-34.62	peak
2	4206.011	6.48	33.08	42.32	49.31	46.55	74.00	-27.45	peak
3	4804.000	7.10	33.97	42.77	47.22	45.52	74.00	-28.48	peak
4	6679.040	8.38	35.71	41.85	48.96	51.20	74.00	-22.80	peak
5	7206.000	8.74	36.07	41.58	46.55	49.78	74.00	-24.22	peak
6	9608.000	10.81	37.67	38.57	43.47	53.38	74.00	-20.62	peak



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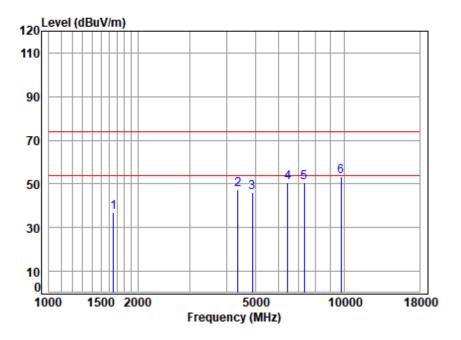
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Mode:g; Polarization:Horizontal; Modulation:GFSK; ; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 07054CR\07055CR

: 2440 TX SE Mode : BLE 1M 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	1653.550	3.39	26.48	40.60	47.78	37.05	74.00	-36.95	peak
2	4367.058	6.64	33.37	42.45	49.72	47.28	74.00	-26.72	peak
3	4880.000	7.18	34.06	42.82	47.61	46.03	74.00	-27.97	peak
4	6432.732	8.28	35.54	41.99	48.95	50.78	74.00	-23.22	peak
5	7320.000	8.84	36.16	41.52	47.05	50.53	74.00	-23.47	peak
6	9760.000	10.76	37.76	38.35	43.38	53.55	74.00	-20.45	peak



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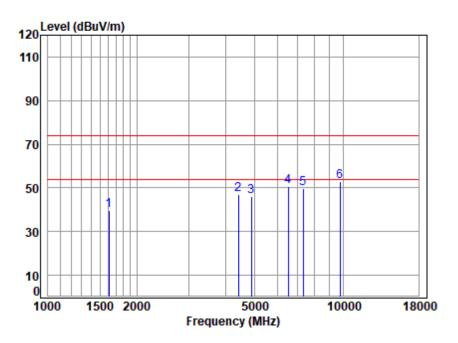
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Mode:g; Polarization:Vertical; Modulation:GFSK; ; Channel:middle



Site : chamber Condition: 3m VERTICAL

Job No : 07054CR\07055CR

: 2440 TX SE Mode : BLE 1M R Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1611.091	3.36	26.30	40.58	50.40	39.48	74.00	-34.52	peak
2	4417.841	6.68	33.46	42.49	49.26	46.91	74.00	-27.09	peak
3	4880.000	7.18	34.06	42.82	47.52	45.94	74.00	-28.06	peak
4	6526.373	8.29	35.62	41.94	48.74	50.71	74.00	-23.29	peak
5	7320.000	8.84	36.16	41.52	46.25	49.73	74.00	-24.27	peak
6	9760.000	10.76	37.76	38.35	42.86	53.03	74.00	-20.97	peak



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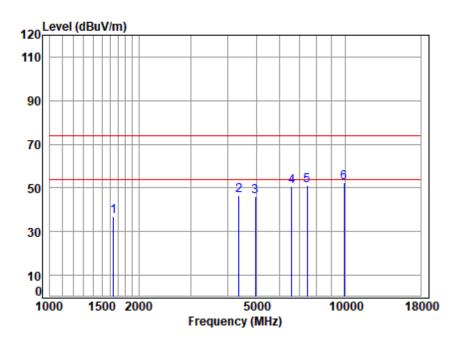
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Mode:g; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 07054CR\07055CR

: 2480 TX SE Mode : BLE 1M 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	1644.019	3.38	26.44	40.60	47.62	36.84	74.00	-37.16	peak
2	4367.058	6.64	33.37	42.45	48.90	46.46	74.00	-27.54	peak
3	4960.000	7.26	34.15	42.87	47.77	46.31	74.00	-27.69	peak
4	6602.265	8.33	35.66	41.89	48.64	50.74	74.00	-23.26	peak
5	7440.000	8.96	36.25	41.46	47.31	51.06	74.00	-22.94	peak
6	9920.000	10.71	37.85	38.12	42.14	52.58	74.00	-21.42	peak



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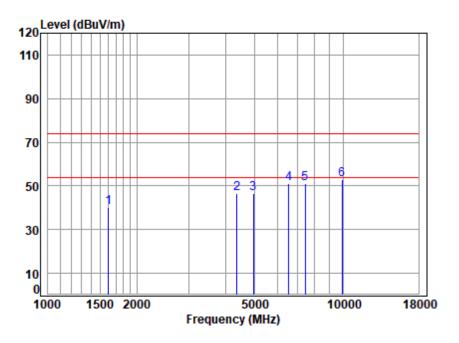
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Mode:g; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 07054CR\07055CR

: 2480 TX SE Mode Note : BLE 1M R

0.0									
		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	3.35	26.26	40.57	51.04	40.08	74.00	-33.92	peak
2	4367.058	6.64	33.37	42.45	48.86	46.42	74.00	-27.58	peak
3	4960.000	7.26	34.15	42.87	48.19	46.73	74.00	-27.27	peak
4	6545.263	8.30	35.63	41.93	49.06	51.06	74.00	-22.94	peak
5	7440.000	8.96	36.25	41.46	47.54	51.29	74.00	-22.71	peak
6	9920.000	10.71	37.85	38.12	42.68	53.12	74.00	-20.88	peak



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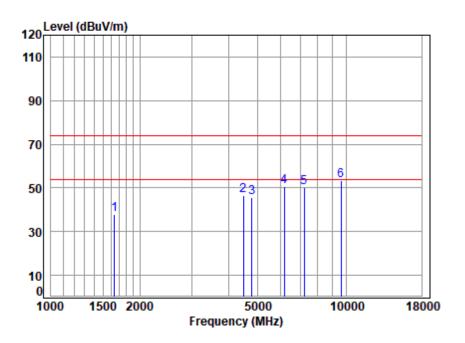
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Mode:i; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 07054CR\07055CR

: 2402 TX SE Mode : BLE 2M 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	1644.019	3.38	26.44	40.60	48.73	37.95	74.00	-36.05	peak
2	4495.125	6.76	33.59	42.55	48.89	46.69	74.00	-27.31	peak
3	4804.000	7.10	33.97	42.77	47.50	45.80	74.00	-28.20	peak
4	6159.797	8.27	35.26	42.15	49.14	50.52	74.00	-23.48	peak
5	7206.000	8.74	36.07	41.58	47.11	50.34	74.00	-23.66	peak
6	9608.000	10.81	37.67	38.57	43.63	53.54	74.00	-20.46	peak



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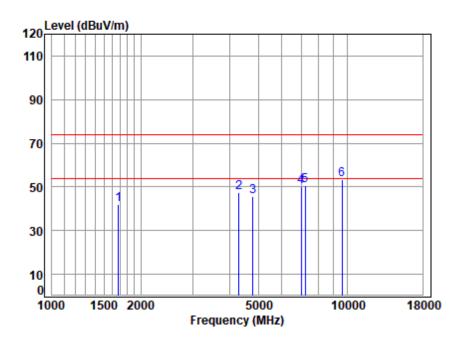
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Mode:i; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 07054CR\07055CR

: 2402 TX SE Mode : BLE 2M R Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1682.477	3.42	26.60	40.62	52.76	42.16	74.00	-31.84	peak
2	4304.400	6.58	33.26	42.40	49.97	47.41	74.00	-26.59	peak
3	4804.000	7.10	33.97	42.77	47.48	45.78	74.00	-28.22	peak
4	6974.982	8.53	35.89	41.70	47.62	50.34	74.00	-23.66	peak
5	7206.000	8.74	36.07	41.58	47.32	50.55	74.00	-23.45	peak
6	9608.000	10.81	37.67	38.57	43.66	53.57	74.00	-20.43	neak



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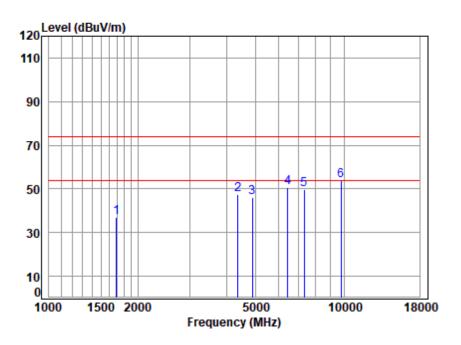
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Mode:i; Polarization:Horizontal; Modulation:GFSK; ; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 07054CR\07055CR

: 2440 TX SE Mode : BLE 2M 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	1692.231	3.42	26.64	40.63	47.36	36.79	74.00	-37.21	peak
2	4367.058	6.64	33.37	42.45	50.06	47.62	74.00	-26.38	peak
3	4880.000	7.18	34.06	42.82	47.54	45.96	74.00	-28.04	peak
4	6432.732	8.28	35.54	41.99	48.83	50.66	74.00	-23.34	peak
5	7320.000	8.84	36.16	41.52	46.36	49.84	74.00	-24.16	peak
6	9760.000	10.76	37.76	38.35	43.51	53.68	74.00	-20.32	peak



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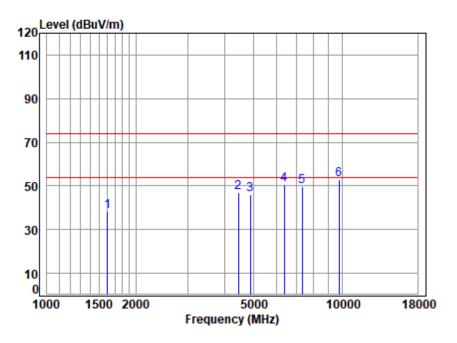
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Mode:i; Polarization:Vertical; Modulation:GFSK; ; Channel:middle



Site : chamber Condition: 3m VERTICAL

Job No : 07054CR\07055CR

: 2440 TX SE Mode : BLE 2M 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	1606.441	3.35	26.28	40.57	49.46	38.52	74.00	-35.48	peak
2	4456.315	6.72	33.53	42.52	49.13	46.86	74.00	-27.14	peak
3	4880.000	7.18	34.06	42.82	47.71	46.13	74.00	-27.87	peak
4	6358.789	8.27	35.46	42.03	48.80	50.50	74.00	-23.50	peak
5	7320.000	8.84	36.16	41.52	46.33	49.81	74.00	-24.19	peak
6	9760.000	10.76	37.76	38.35	42.70	52.87	74.00	-21.13	peak



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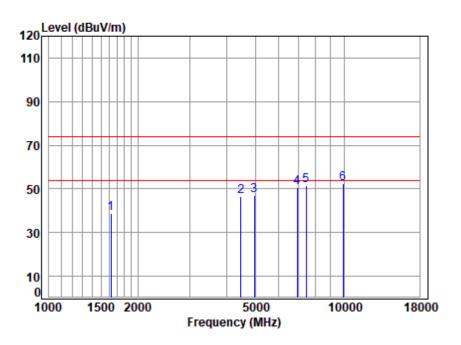
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Mode:i; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 07054CR\07055CR

: 2480 TX SE Mode : BLE 2M 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	1625.121	3.37	26.36	40.59	49.44	38.58	74.00	-35.42	peak
2	4469.214	6.73	33.55	42.53	48.67	46.42	74.00	-27.58	peak
3	4960.000	7.26	34.15	42.87	48.34	46.88	74.00	-27.12	peak
4	6934.778	8.51	35.86	41.72	47.87	50.52	74.00	-23.48	peak
5	7440.000	8.96	36.25	41.46	47.81	51.56	74.00	-22.44	peak
6	9920.000	10.71	37.85	38.12	42.03	52.47	74.00	-21.53	peak



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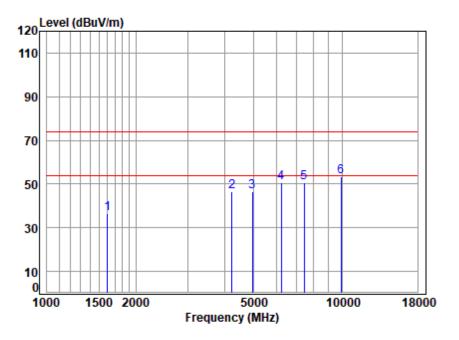
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Mode:i; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 07054CR\07055CR

Mode : 2480 TX SE : BLE 2M 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	1601.804	3.35	26.26	40.57	47.38	36.42	74.00	-37.58	peak
2	4230.396	6.51	33.13	42.34	49.32	46.62	74.00	-27.38	peak
3	4960.000	7.26	34.15	42.87	47.97	46.51	74.00	-27.49	peak
4	6231.427	8.27	35.34	42.10	49.20	50.71	74.00	-23.29	peak
5	7440.000	8.96	36.25	41.46	46.86	50.61	74.00	-23.39	peak
6	9920.000	10.71	37.85	38.12	42.85	53.29	74.00	-20.71	peak



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Photographs 8

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

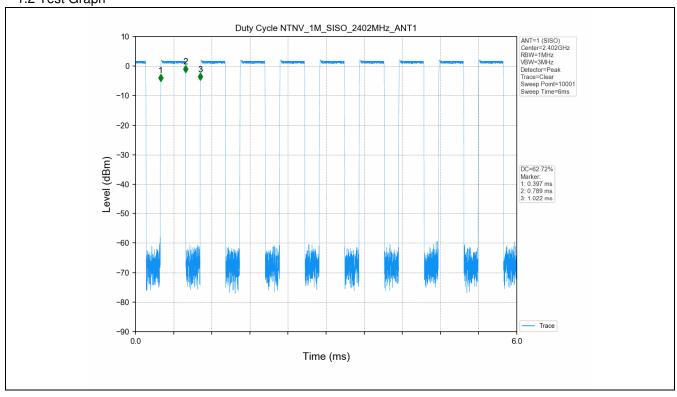
Appendix 15.247 - Left

1. Duty Cycle

1.1 Test Result

Test Mode	Channel Frequency(MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
	2402	SISO	1	0.392	0.625	62.72	2.03
1M	2440	SISO	1	0.392	0.625	62.72	2.03
	2480	SISO	1	0.392	0.625	62.72	2.03
2M	2402	SISO	1	0.206	0.625	32.96	4.82
	2440	SISO	1	0.206	0.624	33.01	4.81
	2480	SISO	1	0.206	0.624	33.01	4.81

1.2 Test Graph





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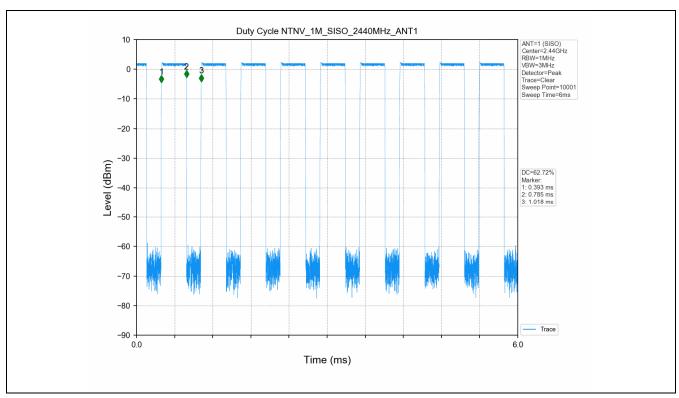
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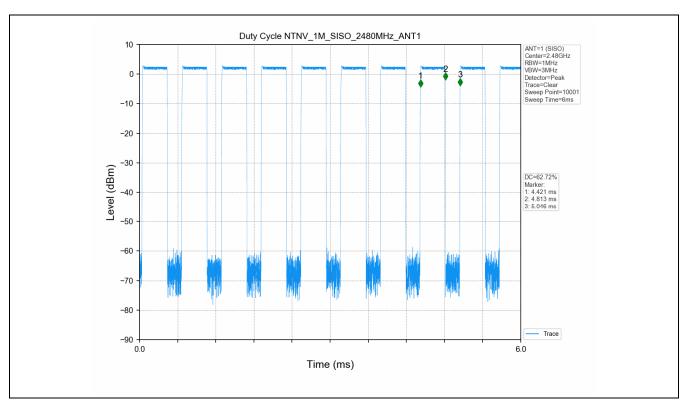
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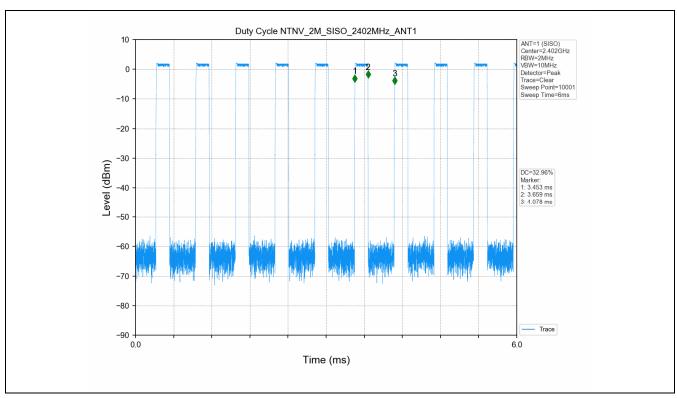
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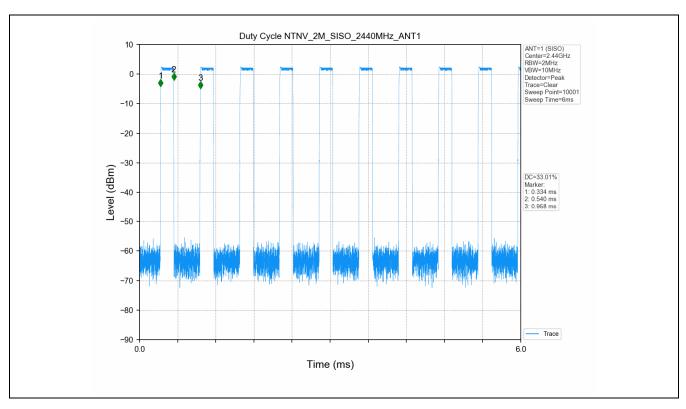
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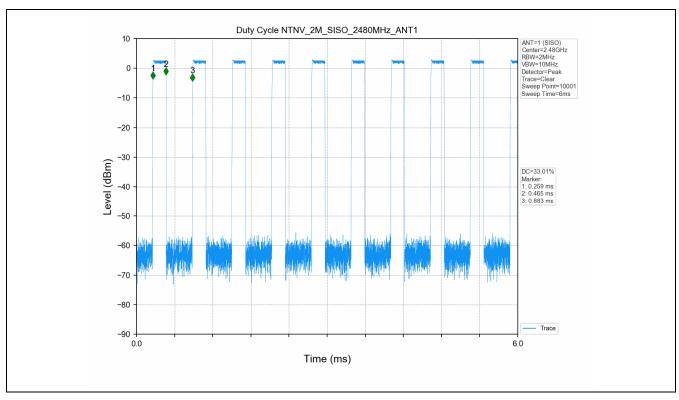
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2. Bandwidth

2.1 Test Result

2.1 Test nesult							
Test Mode	Frequency	TV Tura	ANIT NI-	6dB Bandwidth	Vordiet		
rest Mode	(MHz)	TX Type	ANT No.	Test Result (MHz)	Verdict		
	2402	SISO	1	0.724	PASS		
1M	2440	SISO	1	0.718	PASS		
	2480	SISO	1	0.713	PASS		
	2402	SISO	1	1.253	PASS		
2M	2440	SISO	1	1.257	PASS		
	2480	SISO	1	1.258	PASS		



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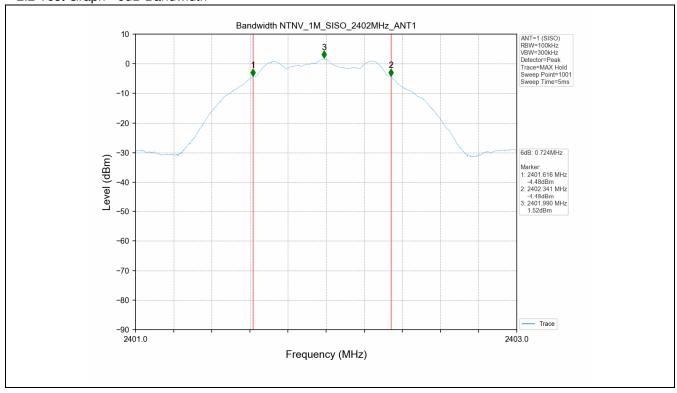
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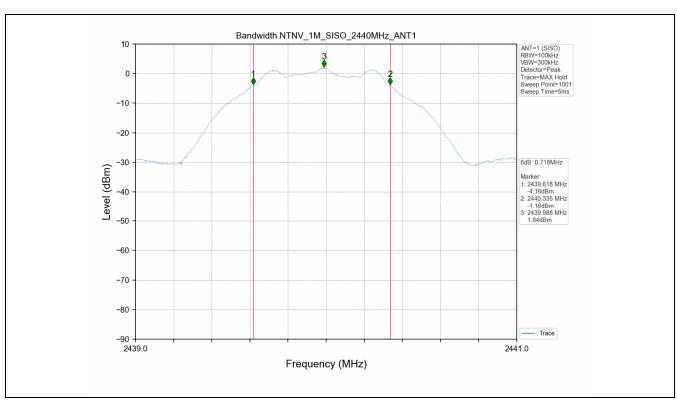


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2.2 Test Graph - 6dB Bandwidth







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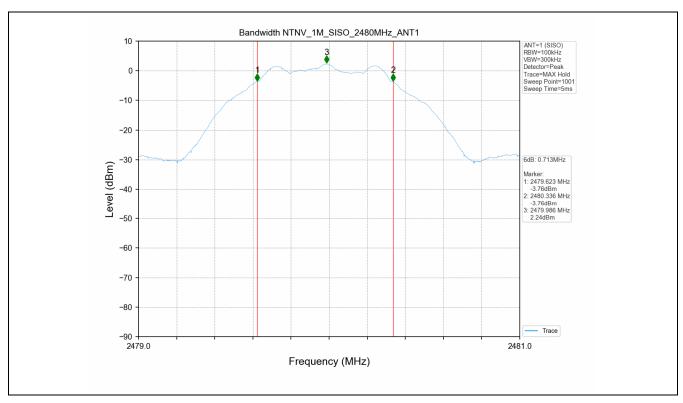
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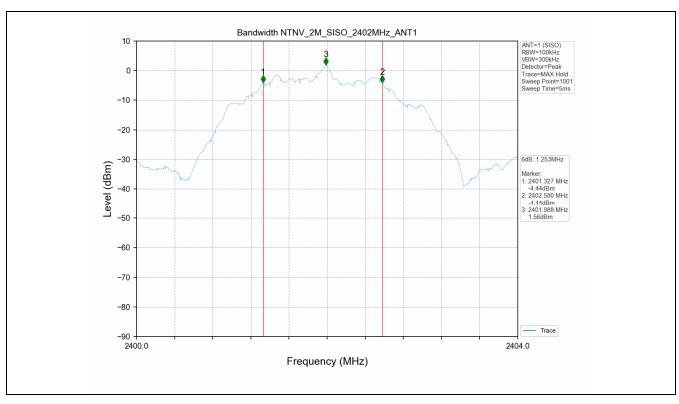
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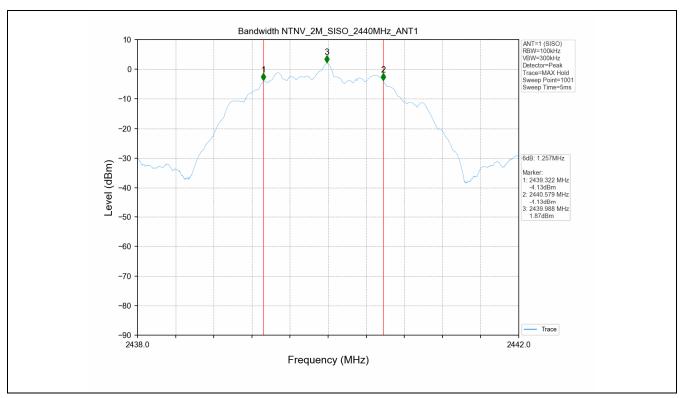
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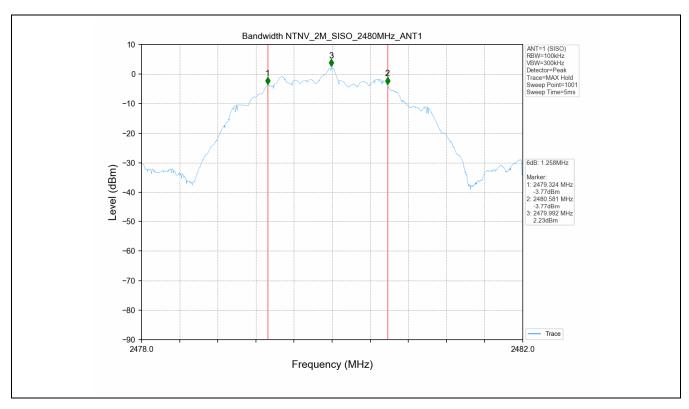
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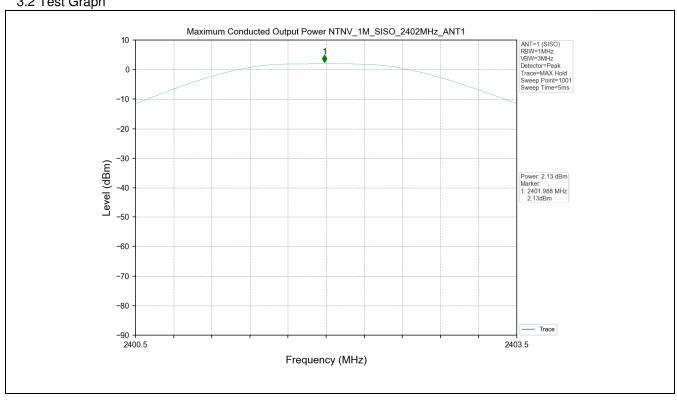
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3. Maximum Conducted Output Power

3.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
	2402	SISO	2.13	30	PASS
1M	2440	SISO	2.42	30	PASS
	2480	SISO	2.59	30	PASS
	2402	SISO	2.25	30	PASS
2M	2440	SISO	2.48	30	PASS
	2480	SISO	2.93	30	PASS

3.2 Test Graph





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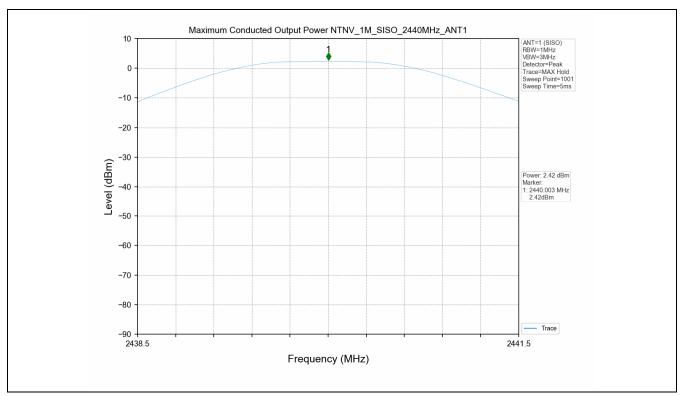
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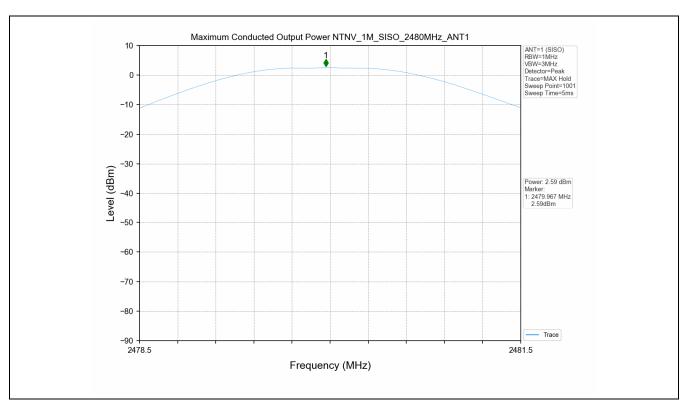
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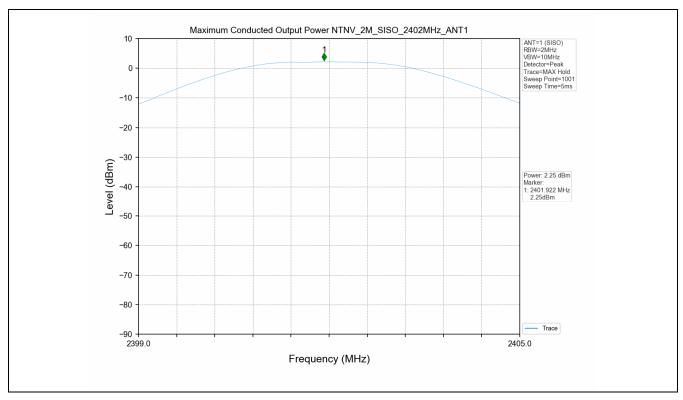
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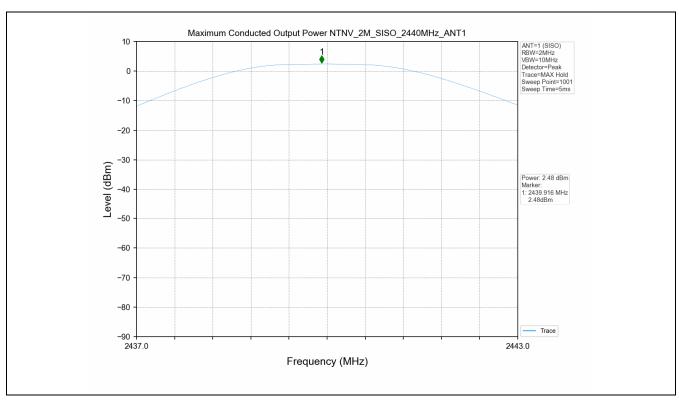
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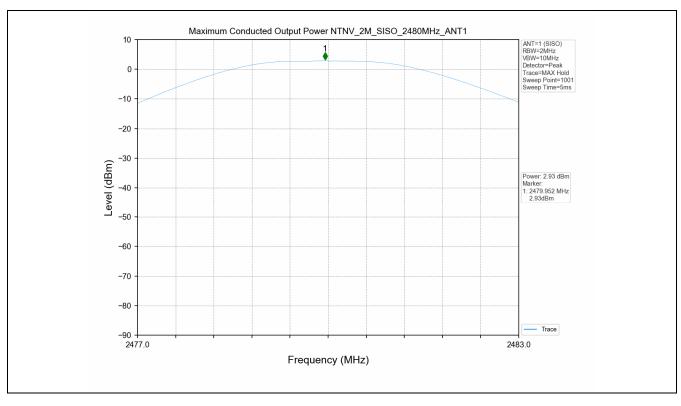
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4. Maximum Power Spectral Density (PSD)

4.1 Test Result

Test Mode	Frequency (MHz)	Тх Туре	Maximum Power Spectral Density (dBm/3KHz)	Limits (dBm/3kHz)	Verdict	
			Ant 1			
	2402	SISO	-13.55	≤8	PASS	
1M	2440	SISO	-13.29	≤8	PASS	
	2480	SISO	-12.90	≤8	PASS	
	2402	SISO	-16.26	≤8	PASS	
2M	2440	SISO	-15.96	≤8	PASS	
	2480	SISO	-15.47	≤8	PASS	



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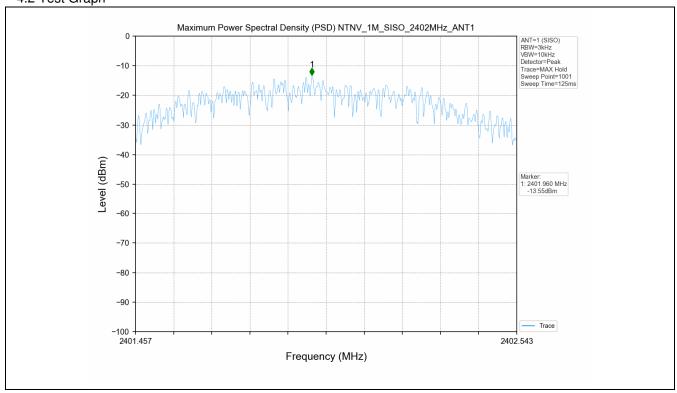
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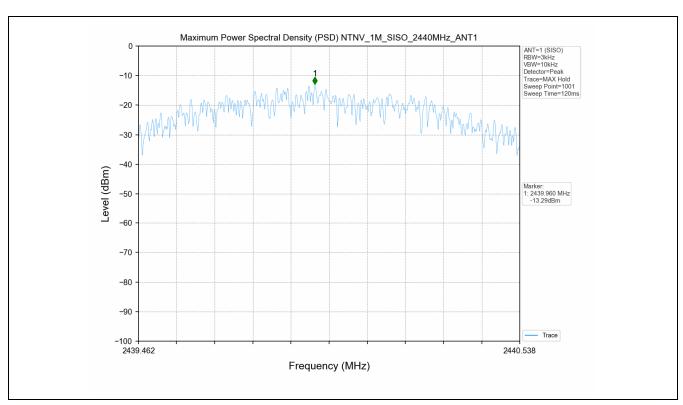


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4.2 Test Graph







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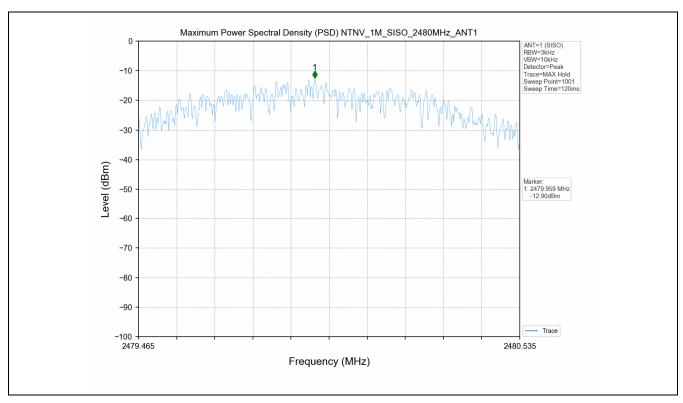
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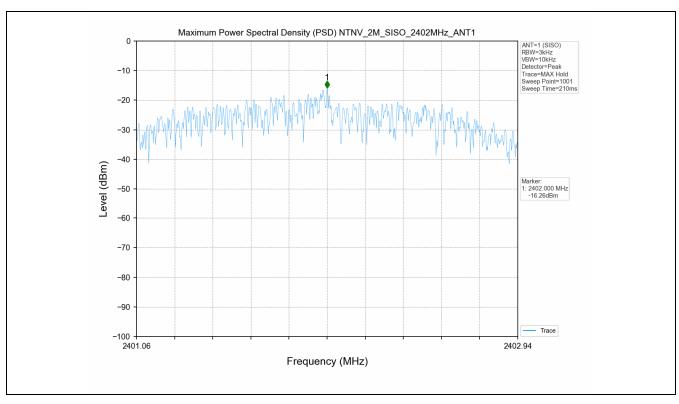
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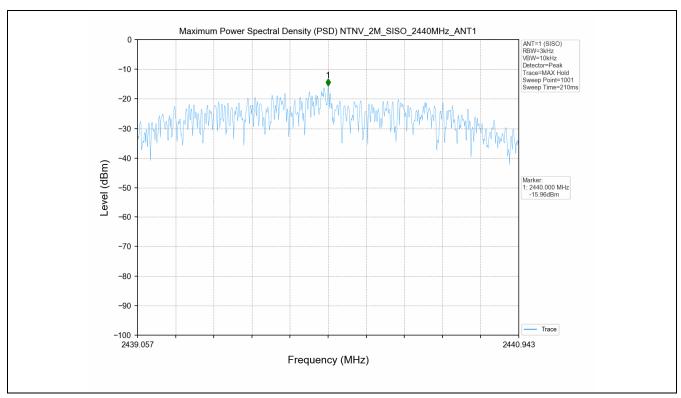
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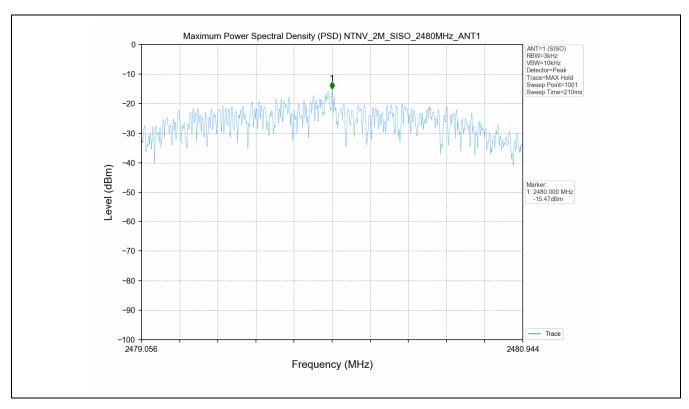
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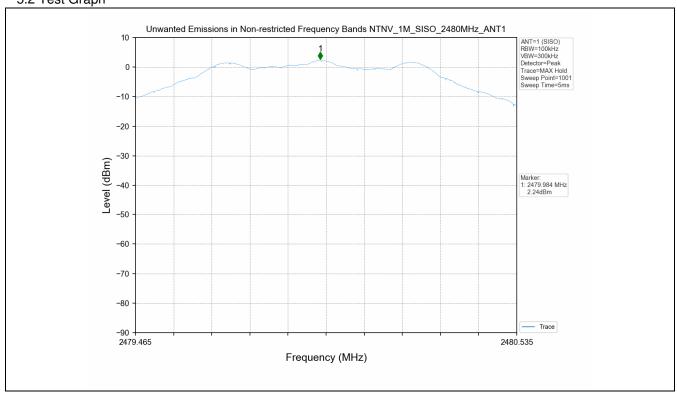
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5. Unwanted Emissions in Non-restricted Frequency Bands

5.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
	2402	SISO	1	Refer to test graph	-17.76	PASS
1M	2440	SISO	1	Refer to test graph	-17.76	PASS
	2480	SISO	1	Refer to test graph	-17.76	PASS
	2402	SISO	1	Refer to test graph	-17.76	PASS
2M	2440	SISO	1	Refer to test graph	-17.76	PASS
	2480	SISO	1	Refer to test graph	-17.76	PASS

5.2 Test Graph





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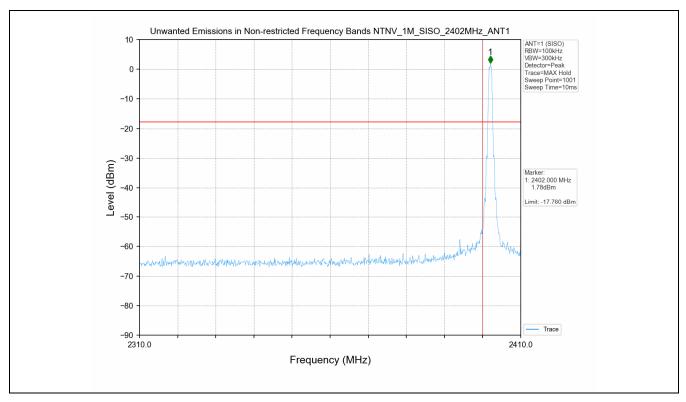
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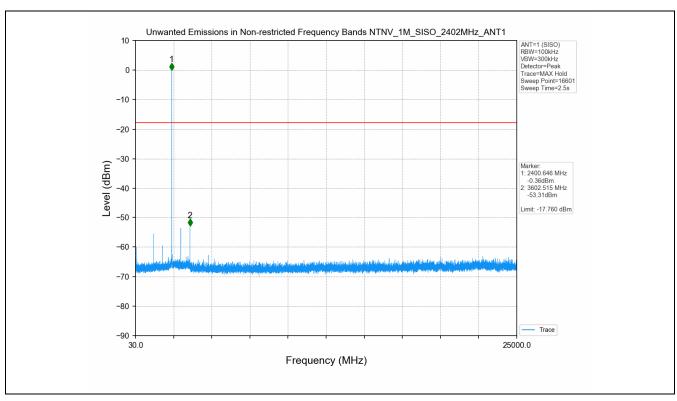
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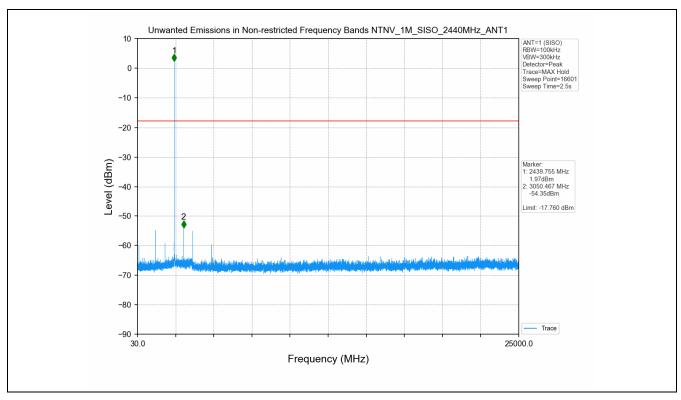
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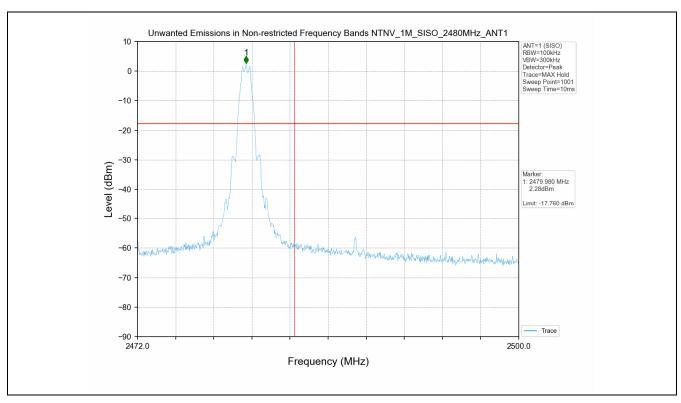
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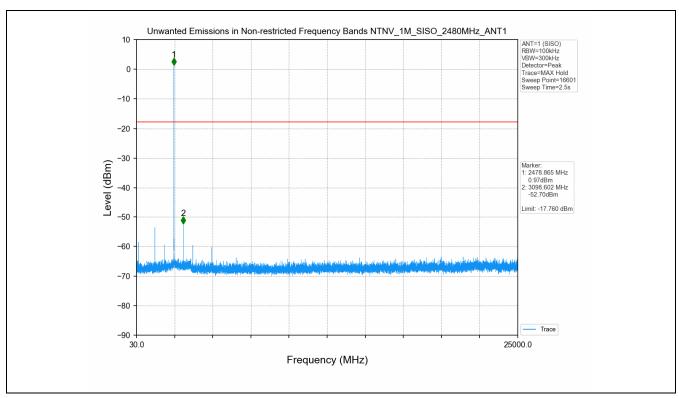
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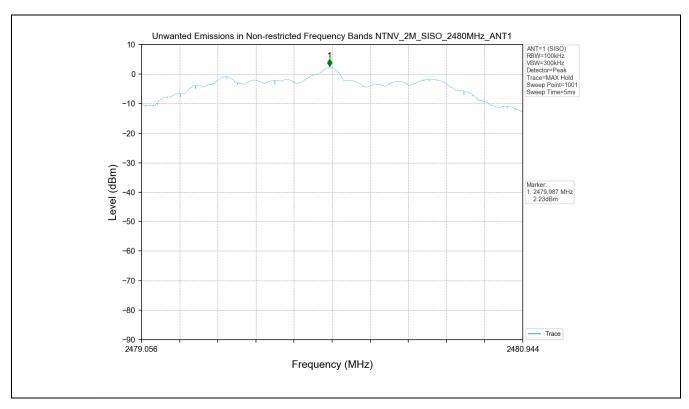
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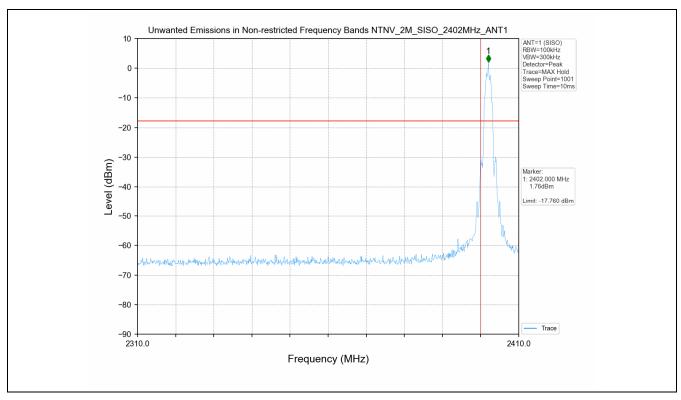
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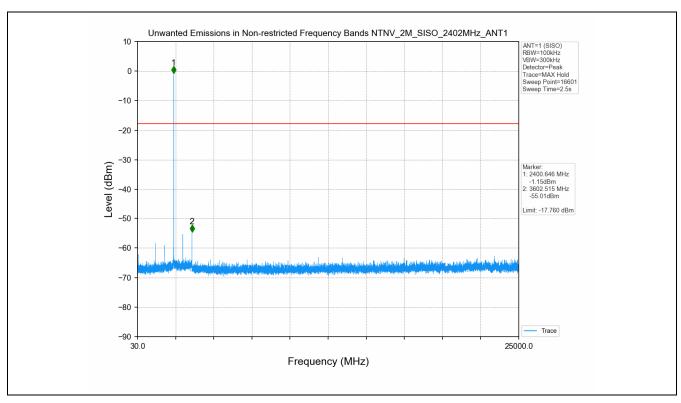
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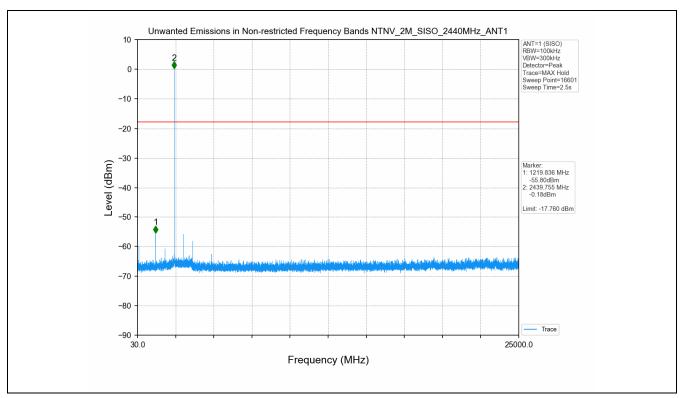
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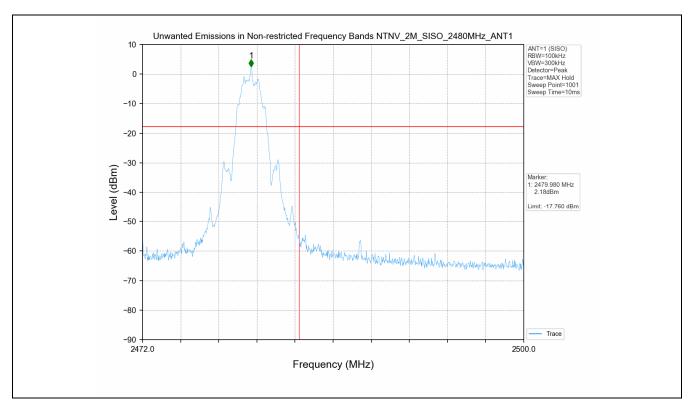
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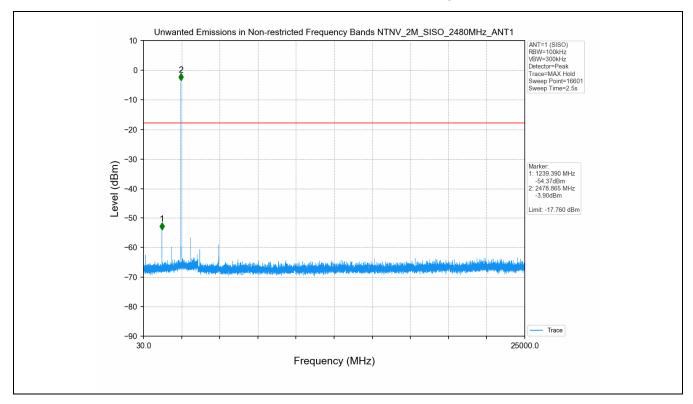
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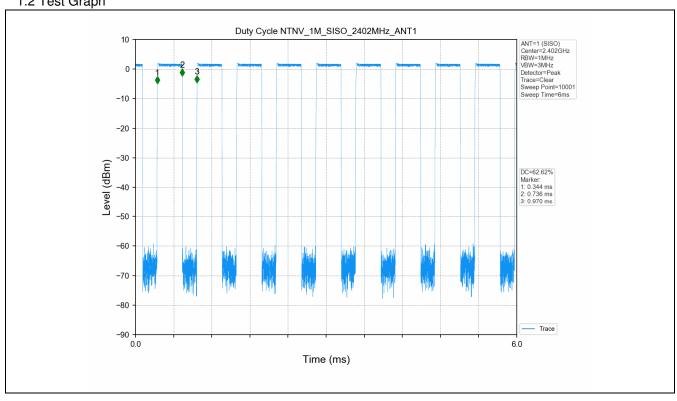
9.2 Appendix 15.247 - Right

1. Duty Cycle

1.1 Test Result

Test Mode	Channel Frequency(MHz)	ТХ Туре	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
	2402	SISO	1	0.392	0.626	62.62	2.03
1M	2440	SISO	1	0.392	0.626	62.62	2.03
	2480	SISO	1	0.392	0.626	62.62	2.03
	2402	SISO	1	0.206	0.625	32.96	4.82
2M	2440	SISO	1	0.207	0.625	33.12	4.80
	2480	SISO	1	0.207	0.625	33.12	4.80

1.2 Test Graph





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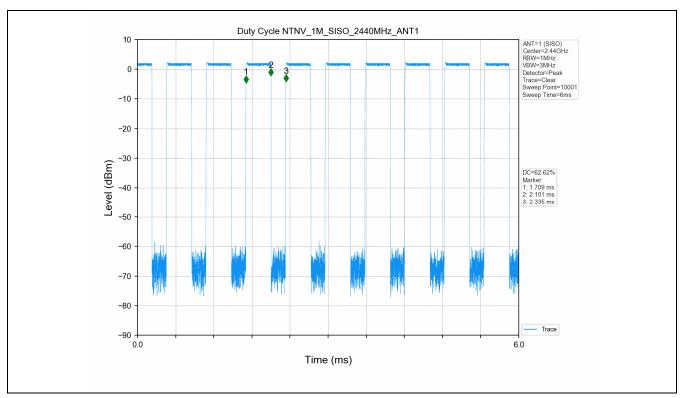
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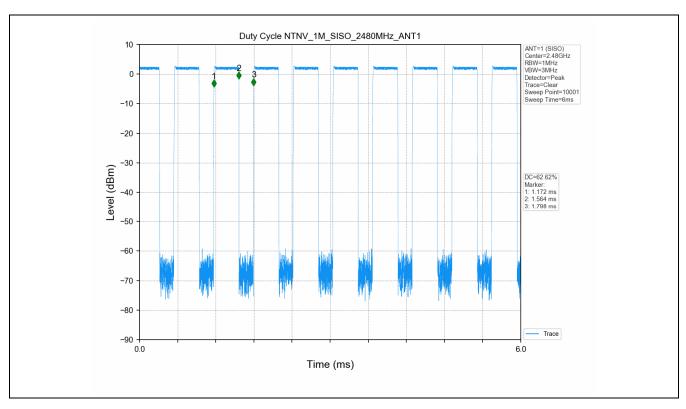
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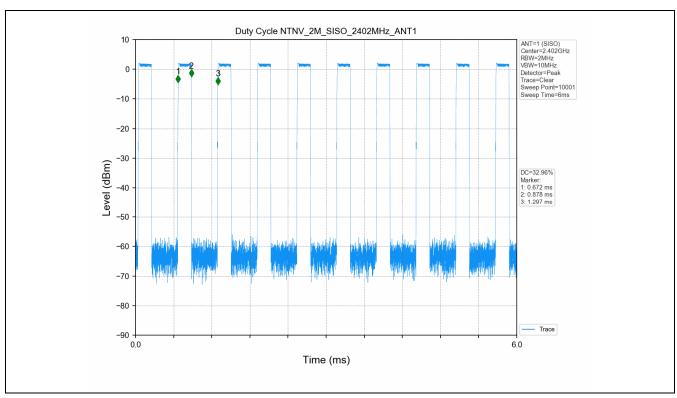
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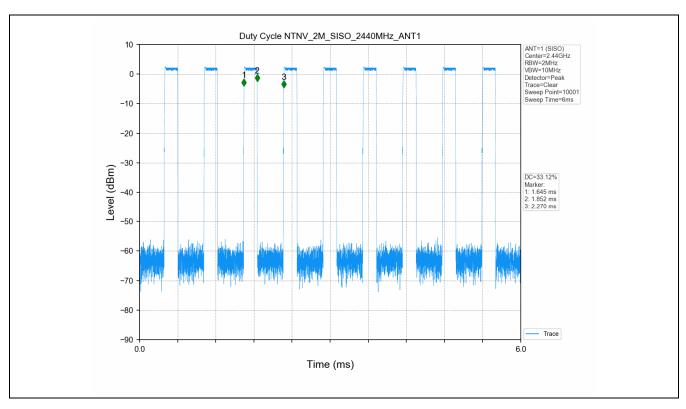
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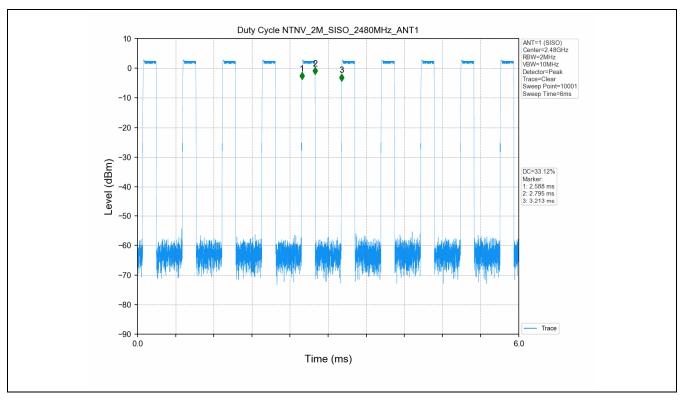
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2. Bandwidth

2.1 Test Result

2.1 165(11650)(
Toot Mode	Frequency	uency	ANIT NI	6dB Bandwidth	Vordiet		
Test Mode	(MHz)	TX Type	ANT No.	Test Result (MHz)	Verdict		
	2402	SISO	1	0.717	PASS		
1M	2440	SISO	1	0.717	PASS		
	2480	SISO	1	0.714	PASS		
	2402	SISO	1	1.261	PASS		
2M	2440	SISO	1	1.259	PASS		
	2480	SISO	1	1.248	PASS		



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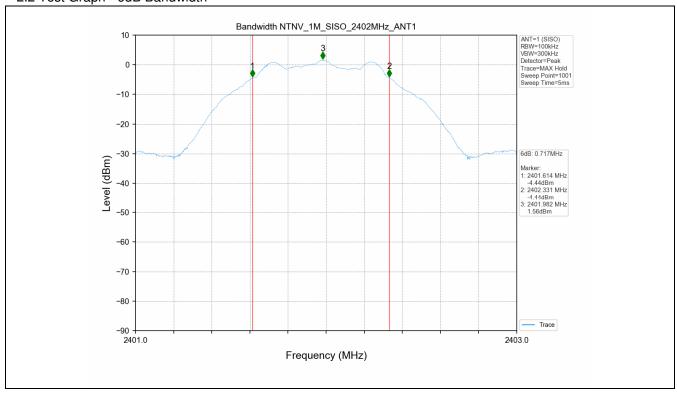
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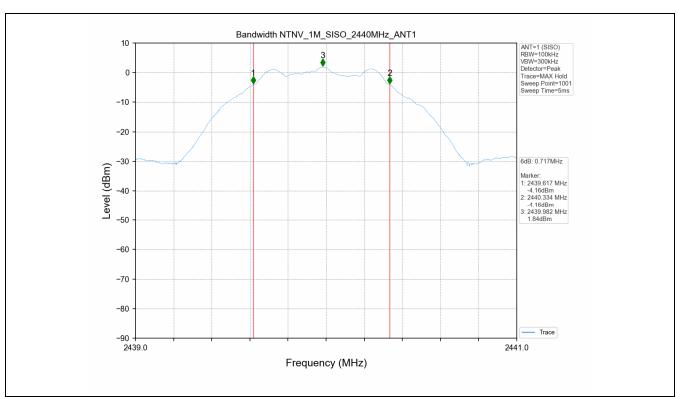


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2.2 Test Graph - 6dB Bandwidth







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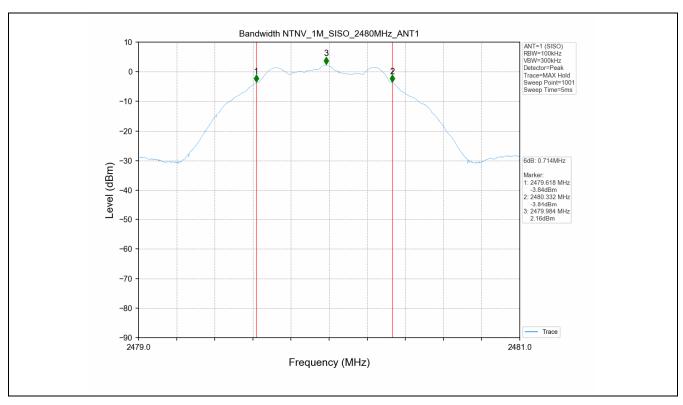
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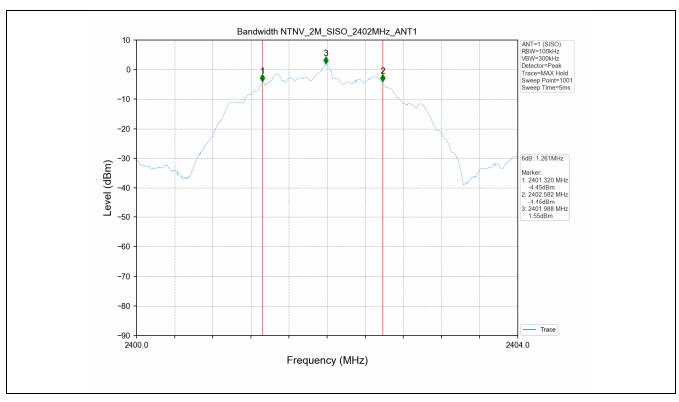
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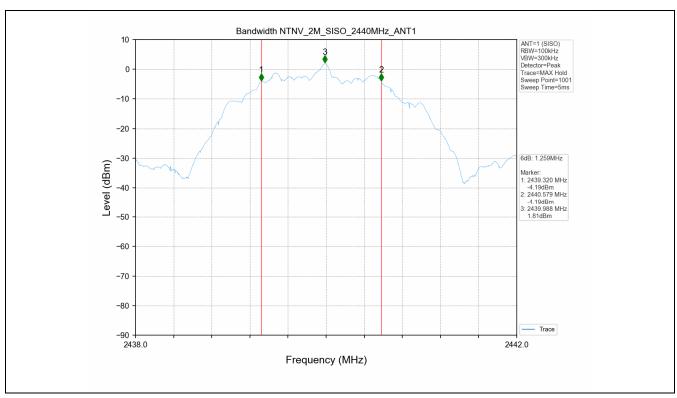
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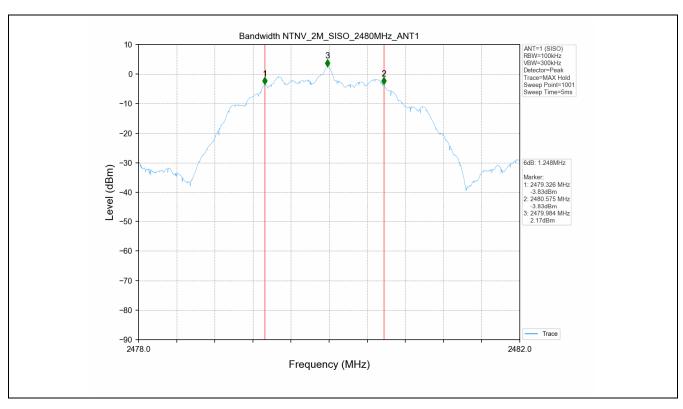
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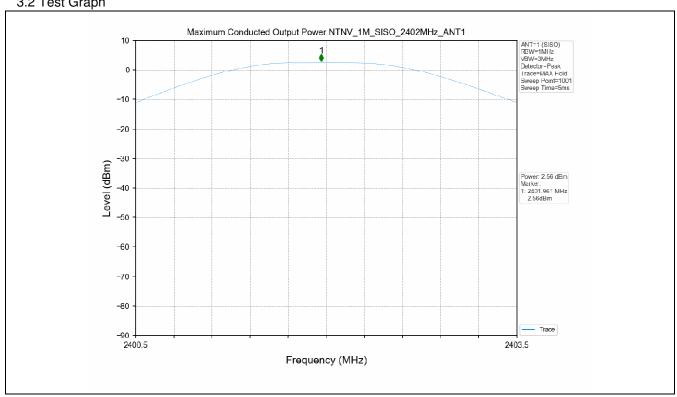
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3. Maximum Conducted Output Power

3.1 Test Result

Test Mode	Frequency (MHz)	Тх Туре	Measured Peak Output Power (dBm) Ant 1	Limits (dBm)	Verdict
	2402	SISO	2.56	30	PASS
	2402		2.50		
1M	2440	SISO	2.79	30	PASS
	2480	SISO	3.20	30	PASS
	2402	SISO	2.60	30	PASS
2M	2440	SISO	2.89	30	PASS
	2480	SISO	3.23	30	PASS

3.2 Test Graph





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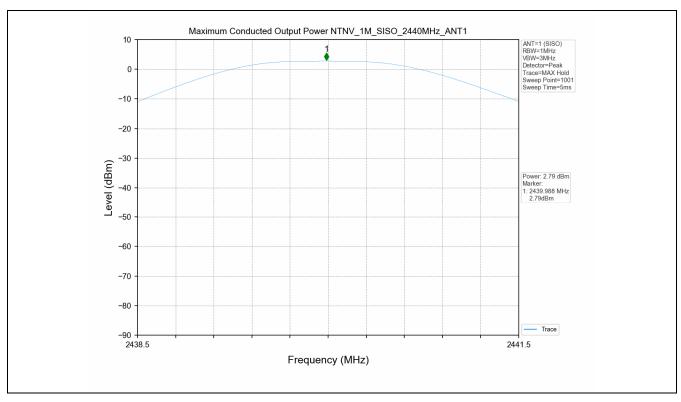
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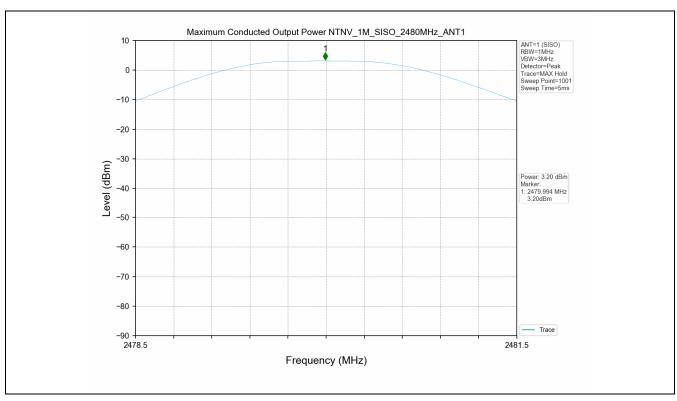
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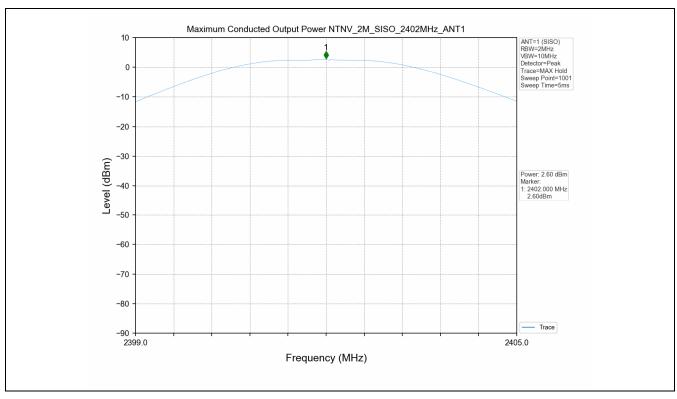
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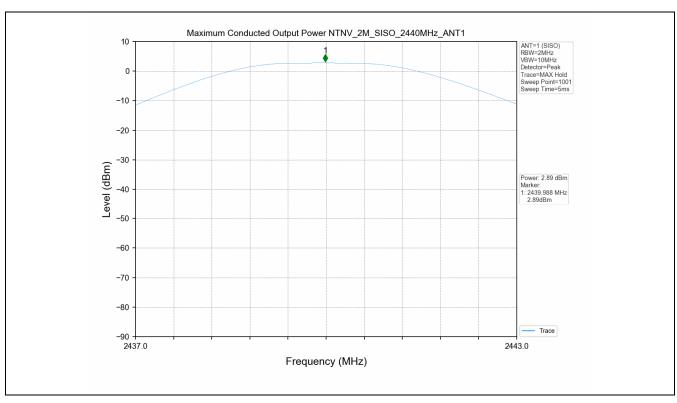
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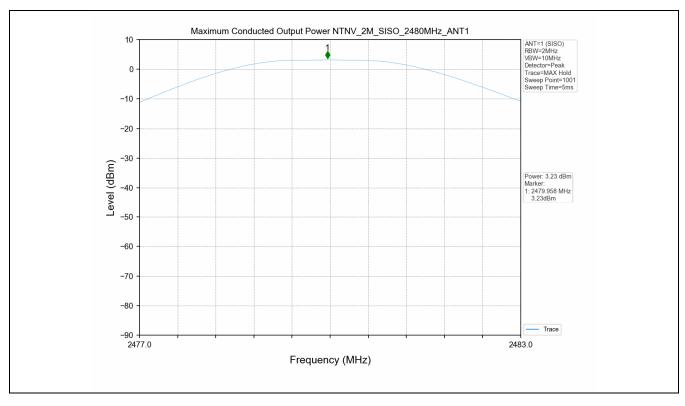
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4. Maximum Power Spectral Density (PSD)

4.1 Test Result

	111 TOOL TOOLIK							
Test Mode	Frequency (MHz) Tx Type		Maximum Power Spectral Density (dBm/3KHz)	Limits (dBm/3kHz)	Verdict			
			Ant 1					
	2402	SISO	-13.64	≤8	PASS			
1M	2440	SISO	-13.28	≤8	PASS			
	2480	SISO	-12.95	≤8	PASS			
	2402	SISO	-16.19	≤8	PASS			
2M	2440	SISO	-16.03	≤8	PASS			
	2480	SISO	-15.64	≤8	PASS			



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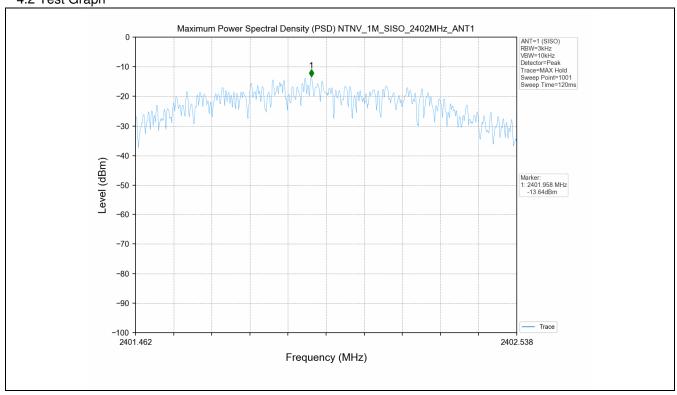
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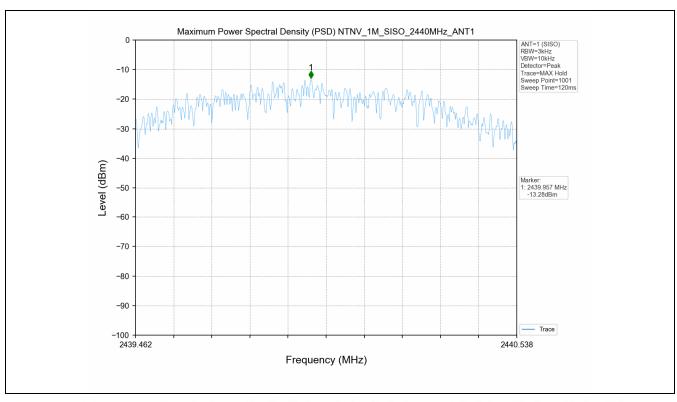


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4.2 Test Graph







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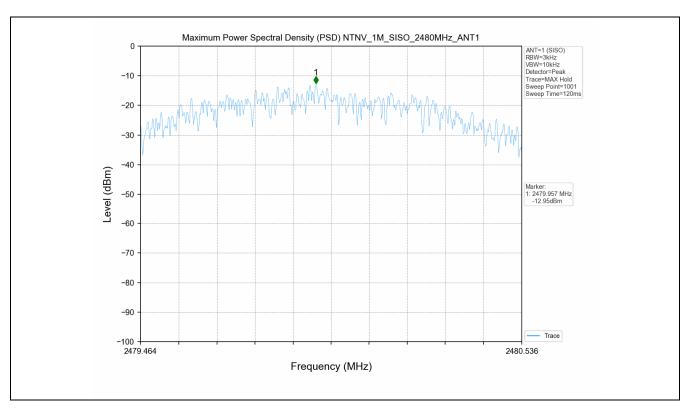
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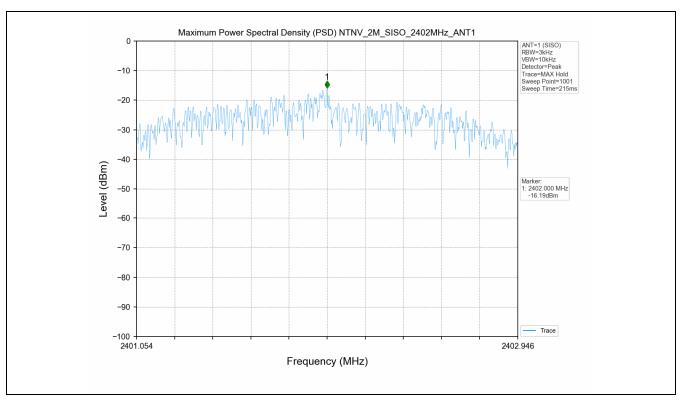
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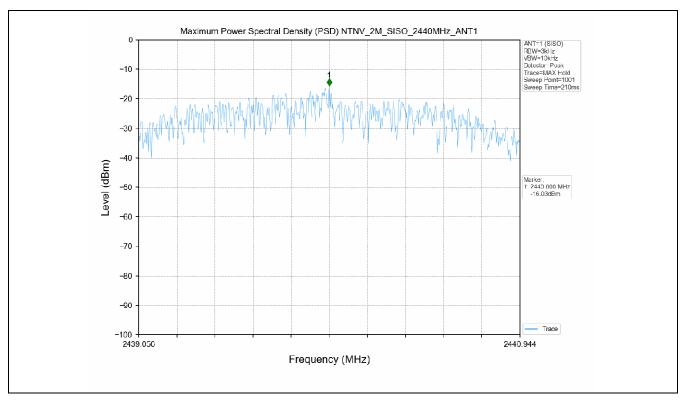
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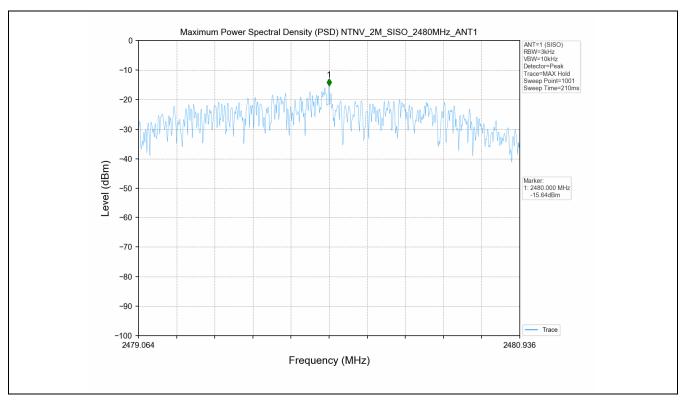
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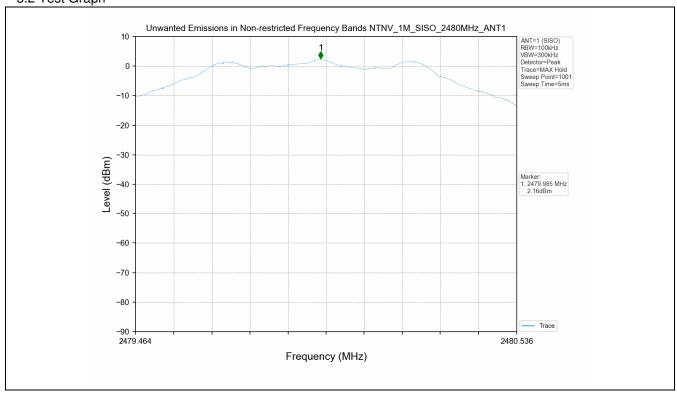
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5. Unwanted Emissions in Non-restricted Frequency Bands

5.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
	2402	SISO	1	Refer to test graph	-17.84	PASS
1M	2440	SISO	1	Refer to test graph	-17.84	PASS
	2480	SISO	1	Refer to test graph	-17.84	PASS
	2402	SISO	1	Refer to test graph	-17.84	PASS
2M	2440	SISO	1	Refer to test graph	-17.84	PASS
	2480	SISO	1	Refer to test graph	-17.84	PASS

5.2 Test Graph





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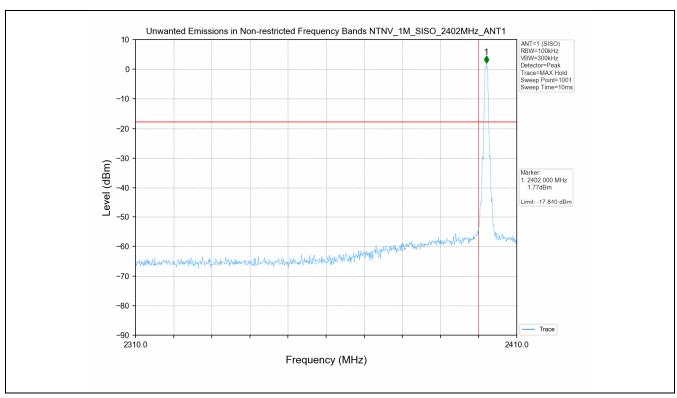
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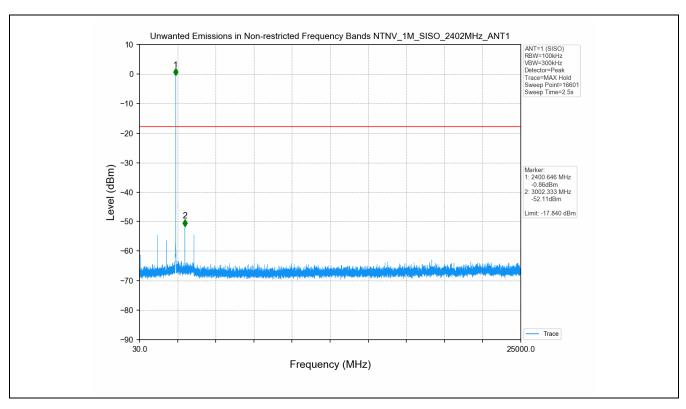
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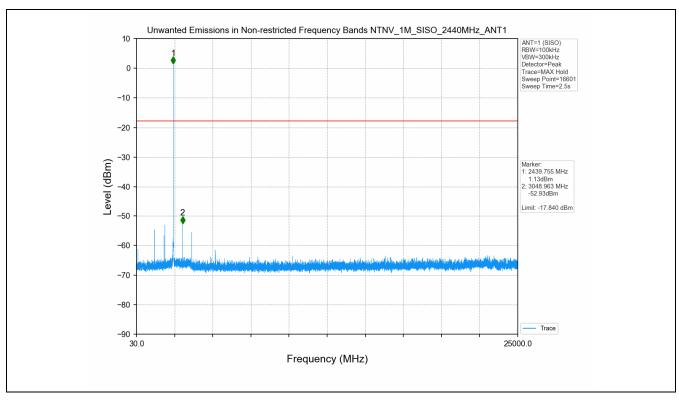
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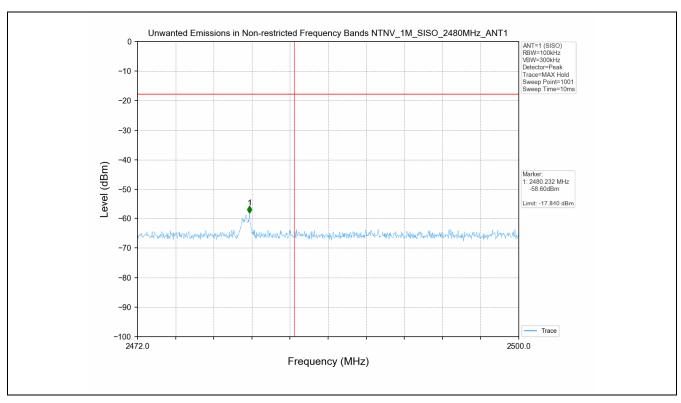
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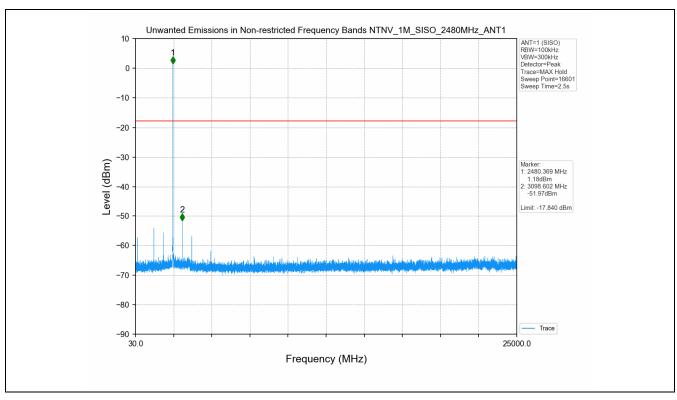
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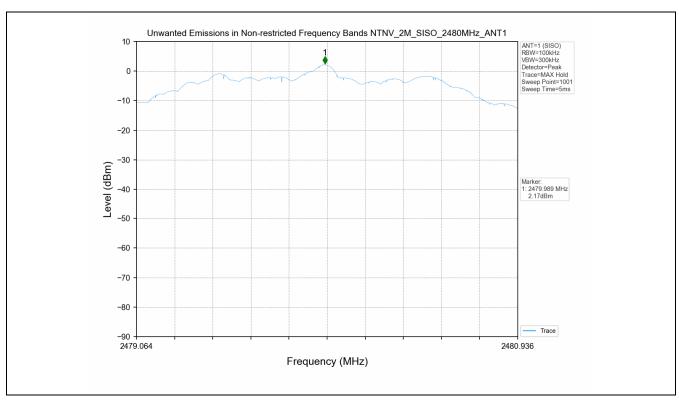
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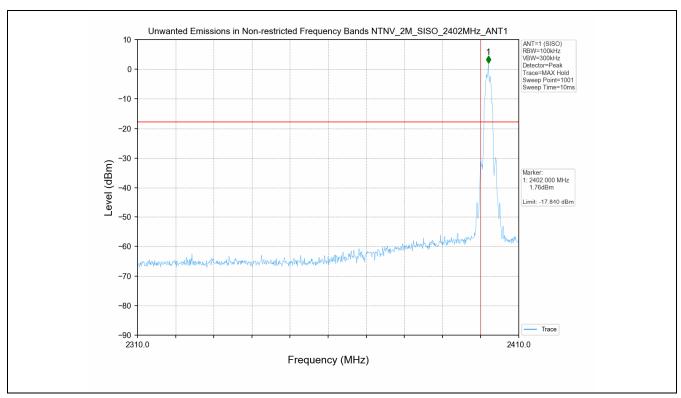
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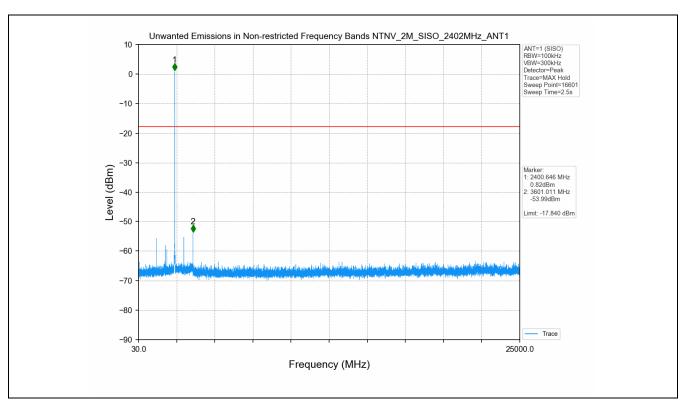
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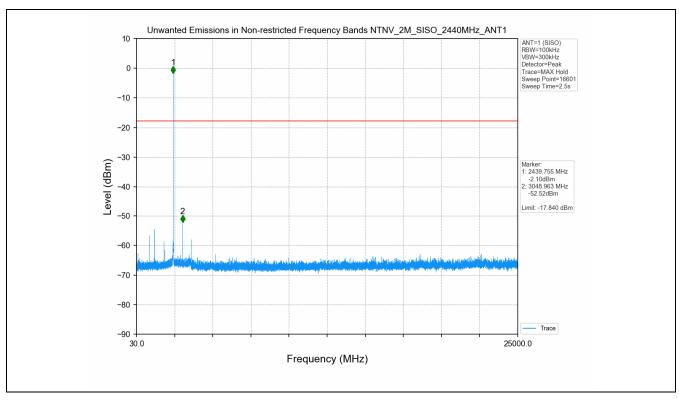
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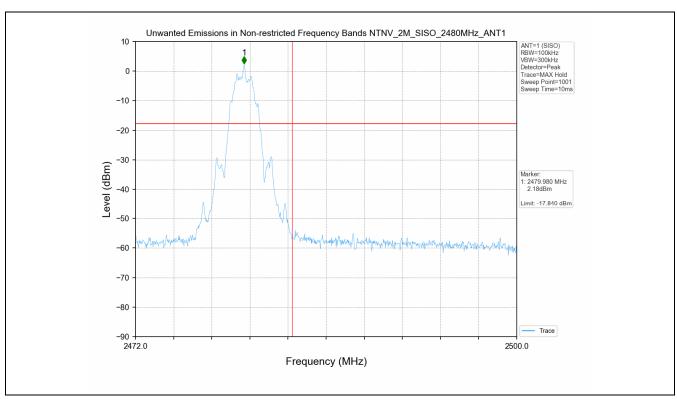
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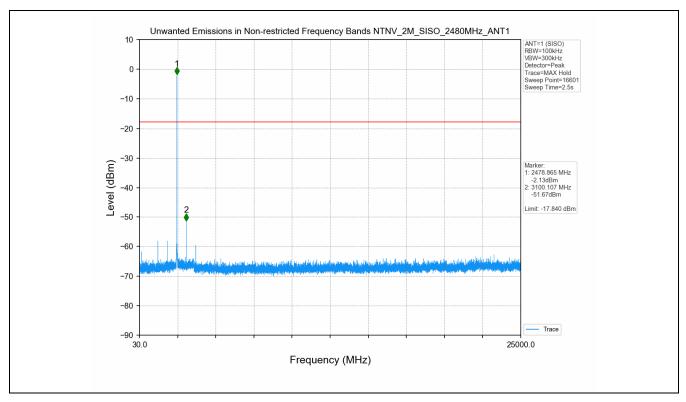
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