

Report No.: SZEM210200146503

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TEST REPORT

Application No.: SZEM2102001465CR **Applicant:** SKULLCANDY, INC.

Address of Applicant: 6301 N Landmark Dr Park City UT 84098, Utah United States of America

Manufacturer: SKULLCANDY, INC.

Address of Manufacturer: 6301 N Landmark Dr Park City UT 84098, Utah United States of America

Equipment Under Test (EUT):

EUT Name: Push Active/PushXT Active

Model No.: S2BPW

Trade Mark:

Skullcandy

FCC ID: Y22-S2BPW

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

Date of Receipt: 2021-02-02

Date of Test: 2021-02-04 to 2021-03-02

Date of Issue: 2021-03-02

Test Result: Pass*

Keny Xu EMC Laboratory Manager



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^{*} In the configuration tested, the EUT complied with the standards specified above.



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	Revision Record						
Version	Chapter	Date	Modifier	Remark			
01		2021-03-02		Original			

Authorized for issue by:		
	Benson Wang	
	Benson Wang/Project Engineer	
	EvicFu	
	Eric Fu/Reviewer	



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Test Summary

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

Radio Spectrum Matter Part						
Item	Standard	Method	Requirement	Result		
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass		
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass		
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€	Pass		
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass		
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass		
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 Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		

Emission Part						
Item	Standard	Method	Requirement	Result		
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass		



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General Information

4.1 Details of E.U.T.

Power supply:	Left earbuds: Li-Ion Polymer Battery 3.7V 55mAh (Charged by travel case) Right earbuds: Li-Ion Polymer Battery 3.7V 55mAh (Charged by travel case)		
	travel case with backup battery: Li-Ion Polymer Battery 3.7V 700mAh (Charged by USB port)		
Cable(s):	Type-C cable: 13cm unshielded		
Operation Frequency:	2402MHz to 2480MHz		
Bluetooth Version:	V5.2 Dual mode		
Data Rate:	Support 1M/bit		
Modulation Type:	GFSK		
Number of Channels:	40		
Channel Spacing:	2MHz		
Antenna Type:	Integral Antenna		
Antenna Gain:	Left earbuds: 3.03dBi; Right earbuds: 3.54dBi		

4.2 Description of Support Units

Description Manufacturer		Model No.	Serial No.
Adapter	Apple	A2167	REF. No.SEA05B04D

4.3 Measurement Uncertainty

Measurement Uncertainty
± 3.0dB (150kHz to 30MHz)
± 0.75dB
± 3%
± 2.84dB
± 0.75dB
± 0.75dB
± 4.5dB (Below 1GHz);± 4.8dB (Above 1GHz)
± 4.5dB (Below 1GHz);± 4.8dB (Above 1GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr} (CISPR Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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4.4 Test Location

All tests were performed at:

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

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

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

No tests were sub-contracted.

4.5 Test Facility

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

A2LA (Certificate No. 3816.01)

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

VCCI

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

• FCC –Designation Number: CN1178

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

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

Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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Equipment List 5

Conducted Emissions at AC Power Line (150kHz-30MHz)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2019-06-13	2022-06-12	
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2020-03-24	2021-03-23	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM024-01	2020-07-10	2021-07-09	
LISN	Rohde&Schwarz	ENV216	SEM007-01	2020-09-23	2021-09-22	
LISN	ETS-LINDGREN	3816/2	SEM007-02	2020-04-01	2021-03-31	

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	FSU43	SEM004-08	2020-04-01	2021-03-31	
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22	
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	2020-05-21	2021-05-20	

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	FSU43	SEM004-08	2020-04-01	2021-03-31
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22
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	2020-05-21	2021-05-20



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Power Spectrum Densit	у				
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	FSU43	SEM004-08	2020-04-01	2021-03-31
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22
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	2020-05-21	2021-05-20

Conducted Band Edges Measurement						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12	
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23	
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2020-04-01	2021-03-31	
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22	
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	2020-05-21	2021-05-20	

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	FSU43	SEM004-08	2020-04-01	2021-03-31
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22
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	2020-05-21	2021-05-20



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Radiated Emissions wh	Radiated Emissions which fall in the restricted bands and 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		
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08		
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12		
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22		
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		
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2020-11-14	2023-11-13		
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31		

Radiated Spurious Emissions(Below 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018-03-31	2021-03-30
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2020-11-02	2021-11-01
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2019-08-08	2022-08-07
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2020-04-09	2021-04-08
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2020-07-10	2021-07-09

General used equipmen	t				
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2020-09-15	2021-09-14
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2020-09-15	2021-09-14
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)

Limit:

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: Left earbuds: 3.03dBi; Right earbuds: 3.54dBi

Antenna location: Refer to Internal photos.



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Radio Spectrum Matter Test Results 7

7.1 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

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.0 °C Atmospheric Pressure: 1010 mbar Humidity: 53.0 % RH

7.1.2 Test Mode Description

	11112 100t mode 20001.ption				
Pre-scan / Final test	Mode Code	Description			
Final test	04	TX mode(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation.			
Final test	11	TX mode(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation.			



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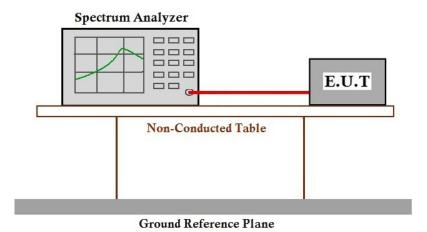
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7.1.3 Test Setup Diagram



Please Refer To Appendix For Details

7.1.4 Measurement Procedure and Data



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7.2 Minimum 6dB Bandwidth

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

Limit:

≥500 kHz

7.2.1 E.U.T. Operation

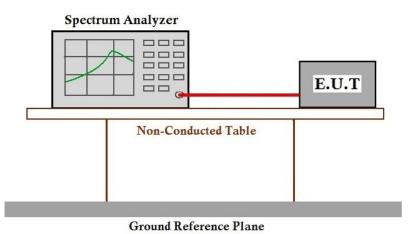
Operating Environment:

Temperature: 23.0 °C Atmospheric Pressure: 1010 mbar Humidity: 53.0 % RH

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	11	TX mode(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Please Refer To Appendix For Details



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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

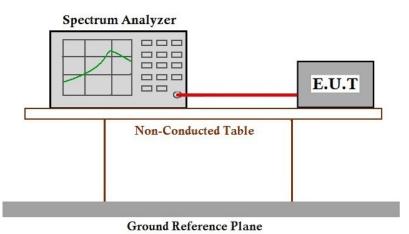
Operating Environment:

Temperature: 23.0 °C Humidity: 53.0 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	11	TX mode(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Please Refer To Appendix For Details



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7.4 Conducted Band Edges Measurement

47 CFR Part 15, Subpart C 15.247(d) Test Requirement 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).

7.4.1 E.U.T. Operation

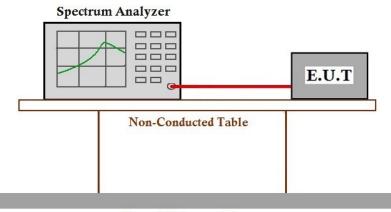
Operating Environment:

Temperature: 23.0 °C Humidity: 53.0 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	11	TX mode(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.4.3 Test Setup Diagram



Ground Reference Plane



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7.4.4 Measurement Procedure and Data

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7.5 Conducted Spurious Emissions

47 CFR Part 15, Subpart C 15.247(d) Test Requirement 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).

7.5.1 E.U.T. Operation

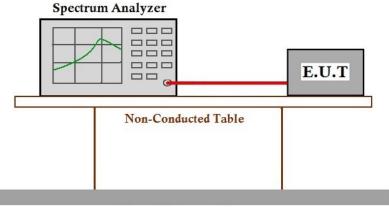
Operating Environment:

Temperature: 23.0 °C Humidity: 53.0 % RH Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	11	TX mode(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.5.3 Test Setup Diagram



Ground Reference Plane



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7.5.4 Measurement Procedure and Data

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7.6 Radiated Emissions which fall in the restricted bands

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

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

Limit:

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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 56.3 % RH Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	04	TX mode(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	05	Charge + TX mode(Left earbuds)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.
Pre-scan	11	TX mode(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	12	Charge + TX mode(Right earbuds)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.



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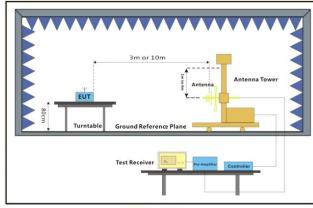
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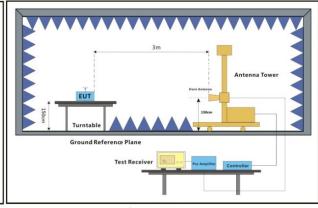


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7.6.3 Test Setup Diagram





30MHz-1GHz

Above 1GHz

7.6.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- a. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

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

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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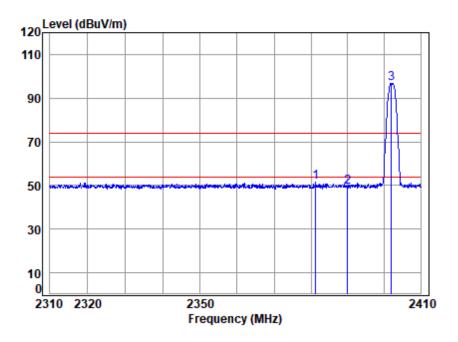
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Test Mode: 05; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL
Job No : 01465CR\01466CR
Mode : 2402 Band edge

Note : BLE

		_							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2381.269	4.33	28.50	40.42	59.00	51.41	74.00	-22.59	peak
2	2390.000	4.34	28.52	40.42	56.65	49.09	74.00	-24.91	peak
3 *	2402.000	4.36	28.54	40.43	104.11	96.58	74.00	22.58	peak



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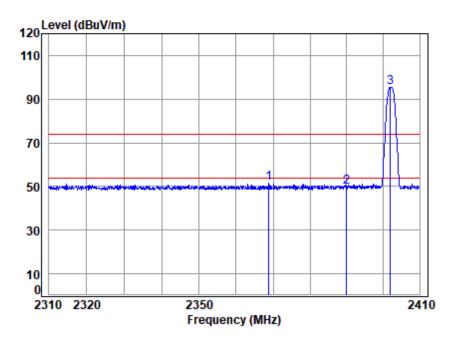
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Test Mode: 05; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01465CR\01466CR Mode : 2402 Band edge

Note : BLE

		_							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2368.888	4.31	28.48	40.41	58.97	51.35	74.00	-22.65	peak
2	2390.000	4.34	28.52	40.42	57.15	49.59	74.00	-24.41	peak
3 *	2402.000	4.36	28.54	40.43	102.78	95.25	74.00	21.25	peak



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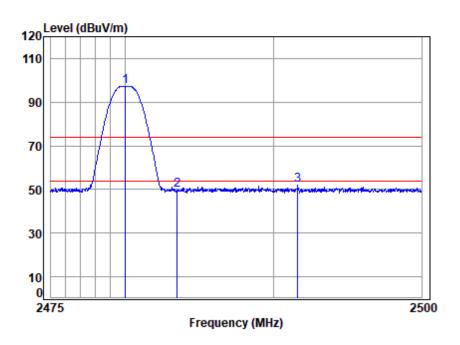
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Test Mode: 05; Polarity: Horizontal; Modulation:GFSK; Channel:High



: chamber Site

Condition: 3m HORIZONTAL : 01465CR\01466CR Mode : 2480 Band edge

Note : BLE

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 *	2480.000	4.49	28.67	40.47	104.64	97.33	74.00	23.33	peak	
2	2483.500	4.49	28.67	40.47	56.96	49.65	74.00	-24.35	peak	
3	2491.622	4.51	28.69	40.47	59.16	51.89	74.00	-22.11	peak	



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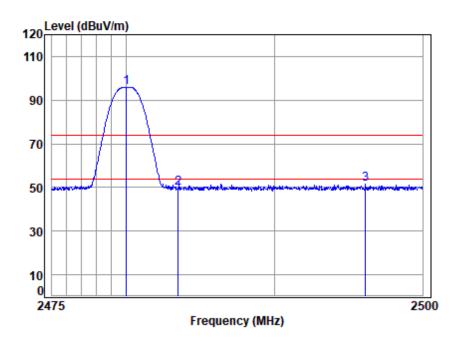
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Test Mode: 05; Polarity: Vertical; Modulation:GFSK; Channel:High



: chamber Site

Condition: 3m VERTICAL

: 01465CR\01466CR Mode : 2480 Band edge

Note : BLE

			_								
			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
											_
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	*	2480.000	4.49	28.67	40.47	103.20	95.89	74.00	21.89	peak	
2		2483.500	4.49	28.67	40.47	57.14	49.83	74.00	-24.17	peak	
3		2496.134	4.51	28.69	40.47	58.75	51.48	74.00	-22.52	peak	



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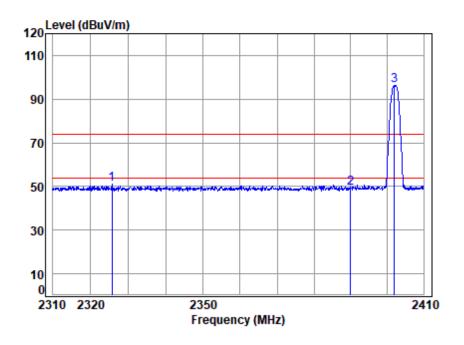
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Test Mode: 12; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL
Job No : 01465CR\01466CR
Mode : 2402 Band edge

Note : BLE

		_								
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2325.618	4.24	28.41	40.39	58.67	50.93	74.00	-23.07	peak	
2	2390.000	4.34	28.52	40.42	56.74	49.18	74.00	-24.82	peak	
3 *	2402.000	4.36	28.54	40.43	103.66	96.13	74.00	22.13	peak	



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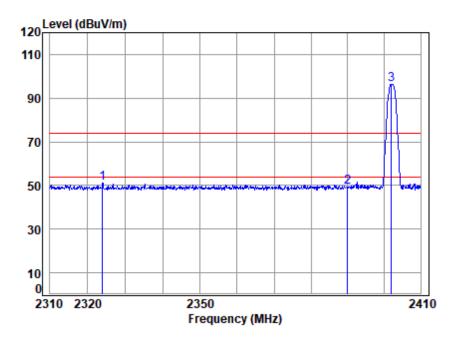
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Test Mode: 12; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01465CR\01466CR Mode : 2402 Band edge

Note : BLE

		_								
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2323.943	4.24	28.41	40.39	58.69	50.95	74.00	-23.05	peak	
2	2390.000	4.34	28.52	40.42	56.72	49.16	74.00	-24.84	peak	
3 ;	* 2402.000	4.36	28.54	40.43	103.75	96.22	74.00	22.22	peak	



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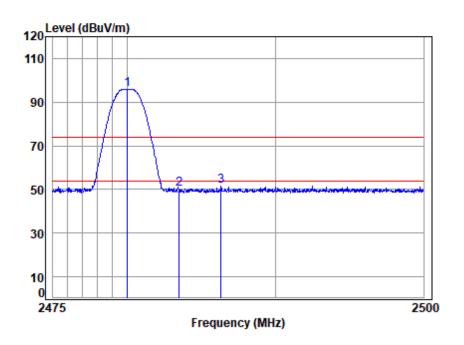
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Test Mode: 12; Polarity: Horizontal; Modulation:GFSK; Channel:High



: chamber Site

Condition: 3m HORIZONTAL : 01465CR\01466CR Mode : 2480 Band edge

Note : BLE

		_							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	2480.000	4.49	28.67	40.47	103.33	96.02	74.00	22.02	peak
2	2483.500	4.49	28.67	40.47	57.58	50.27	74.00	-23.73	peak
	2486.319								•



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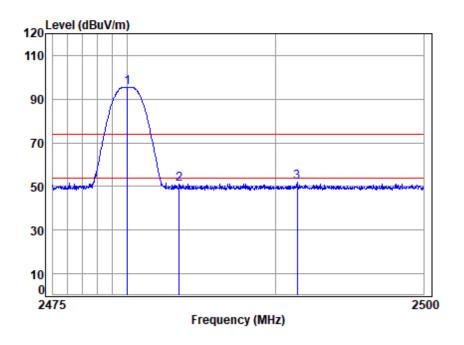
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Test Mode: 12; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 01465CR\01466CR Mode : 2480 Band edge

Note : BLE

		_							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	2480.000	4.49	28.67	40.47	102.86	95.55	74.00	21.55	peak
2	2483.500	4.49	28.67	40.47	58.52	51.21	74.00	-22.79	peak
	2491.447								•



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7.7 Radiated Spurious Emissions

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

Limit:

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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 46 % RH Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	05	Charge + TX mode(Left earbuds)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.
Final test	11	TX mode(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	12	Charge + TX mode(Right earbuds)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.



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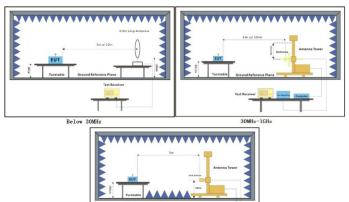
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7.7.3 Test Setup Diagram





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7.7.4 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
- 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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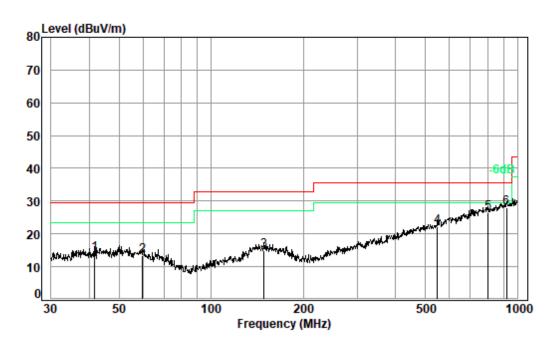


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Test Mode: 04; Polarity: Horizontal



Condition: 10m HORIZONTAL

Job No. : 01465CR

Test Mode: 04

	HOUCE OF									
		Ant	Preamp	Cable	Read		Limit	0ver		
	Freq	Factor	Factor	Loss	Level	Level	Line	Limit	Remark	
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		
1	41.713	20.34	32.50	0.94	25.35	14.13	29.50	-15.37	QP	
2	59.649	19.20	32.49	1.05	25.50	13.26	29.50	-16.24	QP	
3	148.963	20.15	32.42	1.48	25.69	14.90	33.00	-18.10	QP	
4	547.098	24.64	32.30	3.04	26.94	22.32	35.60	-13.28	QP	
5	801.786	28.60	32.09	3.33	26.53	26.37	35.60	-9.23	QP	
6 n	n 922.516	29.80	31.39	3.50	26 04	27.95	35.60	-7.65	OP	



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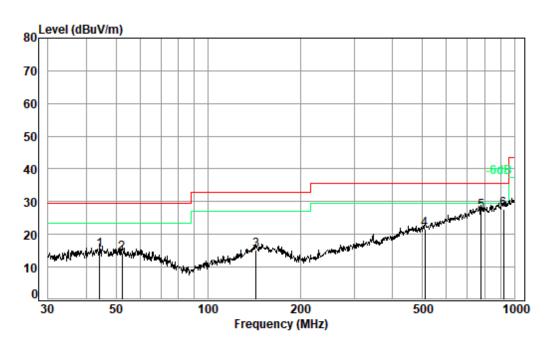
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Test Mode: 04; Polarity: Vertical



Condition: 10m VERTICAL

Job No. : 01465CR

Test Mode: 04

	Freq		Preamp Factor						Remark
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	44.275	20.33	32.50	0.94	26.35	15.12	29.50	-14.38	QP
2	52.391	19.94	32.50	0.98	25.89	14.31	29.50	-15.19	QP
3	143.326	19.87	32.42	1.46	26.15	15.06	33.00	-17.94	QP
4	510.044	24.20	32.30	2.85	26.81	21.56	35.60	-14.04	QP
5	779.607	28.40	32.14	3.33	27.43	27.02	35.60	-8.58	QP
6 pp	922,516	29.80	31.39	3.50	25.88	27.79	35.60	-7.81	OP



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The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

 $L_3 / L_{10} = D_{10} / D_3$

Note:

L₃: Level @ 3m distance. Unit: uV/m; L₁₀: Level @ 10m distance. Unit: uV/m;

D₃: 3m distance. Unit: m D₁₀: 10m distance. Unit: m

The level at 3m test distance is below:

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization
44.28	15.12	5.70	19.01	25.58	40.00	-14.42	V
52.39	14.31	5.19	17.31	24.77	40.00	-15.23	V
143.33	15.06	5.66	18.87	25.52	43.50	-17.98	V
510.04	21.56	11.97	39.89	32.02	46.00	-13.98	V
779.61	27.02	22.44	74.80	37.48	46.00	-8.52	V
922.52	27.79	24.52	81.73	38.25	46.00	-7.75	V
41.71	14.13	5.09	16.96	24.59	40.00	-15.41	Н
59.65	13.26	4.60	15.34	23.72	40.00	-16.28	Н
148.96	14.90	5.56	18.53	25.36	43.50	-18.14	Н
547.10	22.32	13.06	43.54	32.78	46.00	-13.22	Н
801.79	26.37	20.82	69.40	36.83	46.00	-9.17	Н
922.52	27.95	24.97	83.25	38.41	46.00	-7.59	Н



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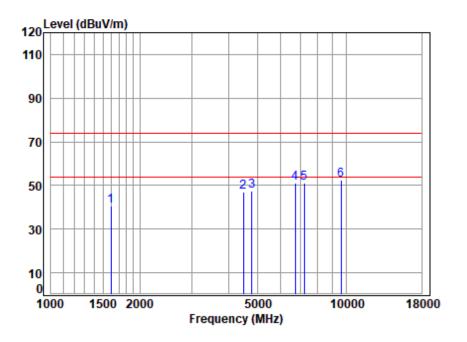
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Test Mode: 04; Polarity: Horizontal; Modulation: GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL
Job No : 01465CR\01466CR
Mode : 2402 TX RSE

Note : BLE

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
4	1507 191	2 25	26.24	40.01	E4 04	40. 60	74.00	22.20	
1	1597.181	3.33	20.24	40.01	51.04	40.02	74.00	-33.30	peak
2	4495.125	6.76	33.59	41.87	48.67	47.15	74.00	-26.85	peak
3	4804.000	7.10	33.97	42.14	48.33	47.26	74.00	-26.74	peak
4	6717.762	8.40	35.73	41.89	49.00	51.24	74.00	-22.76	peak
5	7206.000	8.74	36.07	41.50	47.63	50.94	74.00	-23.06	peak
6	9608.000	10.81	37.67	37.76	41.64	52.36	74.00	-21.64	peak



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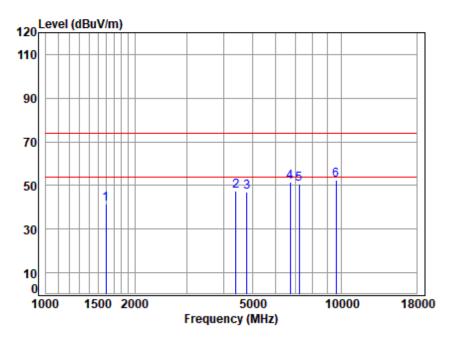
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Test Mode: 04; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01465CR\01466CR Mode : 2402 TX RSE

Note : BLE

WOLC		_							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1597.181	3.35	26.24	40.01	51.76	41.34	74.00	-32.66	peak
2	4405.090	6.67	33.44	41.79	49.32	47.64	74.00	-26.36	peak
3	4804.000	7.10	33.97	42.14	48.05	46.98	74.00	-27.02	peak
4	6717.762	8.40	35.73	41.89	49.47	51.71	74.00	-22.29	peak
5	7206.000	8.74	36.07	41.50	47.42	50.73	74.00	-23.27	peak
6	9608.000	10.81	37.67	37.76	41.87	52.59	74.00	-21.41	peak



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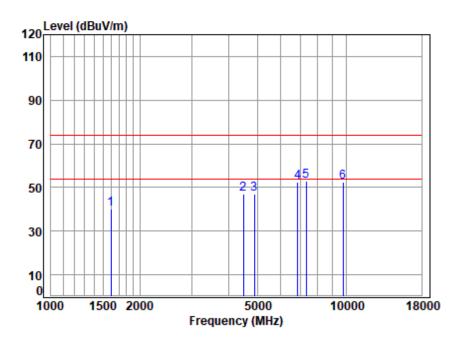
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Test Mode: 04; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 01465CR\01466CR Mode : 2440 TX RSE

Note : BLE

		-							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1597.181	3.35	26.24	40.01	50.74	40.32	74.00	-33.68	peak
2	4482.150	6.74	33.57	41.86	48.47	46.92	74.00	-27.08	peak
3	4880.000	7.18	34.06	42.20	47.91	46.95	74.00	-27.05	peak
4	6855.063	8.47	35.82	41.80	50.13	52.62	74.00	-21.38	peak
5	7320.000	8.84	36.16	41.40	49.12	52.72	74.00	-21.28	peak
6	9760.000	10.76	37.76	37.50	41.62	52.64	74.00	-21.36	peak



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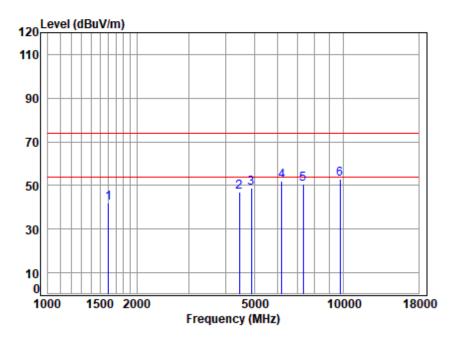
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Test Mode: 04; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m VERTICAL
Job No : 01465CR\01466CR

Mode : 2440 TX RSE

Note : BLE

WOLC		-							
		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	40.01	52.22	41.82	74.00	-32.18	peak
2	4456.315	6.72	33.53	41.84	48.71	47.12	74.00	-26.88	peak
3	4880.000	7.18	34.06	42.20	49.77	48.81	74.00	-25.19	peak
4	6195.508	8.27	35.30	42.25	50.60	51.92	74.00	-22.08	peak
5	7320.000	8.84	36.16	41.40	47.18	50.78	74.00	-23.22	peak
6	9760.000	10.76	37.76	37.50	41.74	52.76	74.00	-21.24	peak



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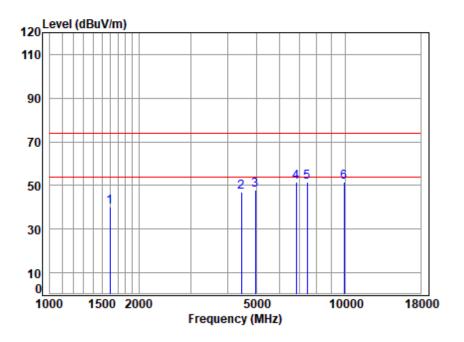
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Test Mode: 04; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL
Job No : 01465CR\01466CR
Mode : 2480 TX RSE

Note : BLE

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1597.181	3.35	26.24	40.01	50.75	40.33	74.00	-33.67	peak
2	4456.315	6.72	33.53	41.84	48.65	47.06	74.00	-26.94	peak
3	4960.000	7.26	34.15	42.27	48.55	47.69	74.00	-26.31	peak
4	6815.551	8.45	35.79	41.82	49.11	51.53	74.00	-22.47	peak
5	7440.000	8.96	36.25	41.29	47.65	51.57	74.00	-22.43	peak
6	9920.000	10.71	37.85	37.23	40.39	51.72	74.00	-22.28	peak



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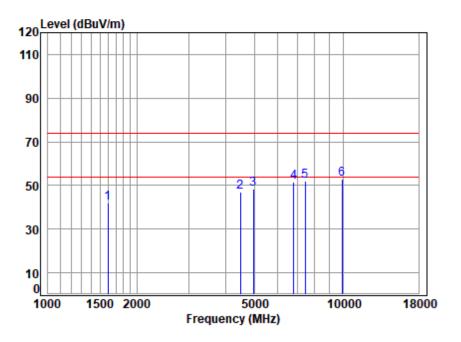
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Test Mode: 04; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL
Job No : 01465CR\01466CR

Mode : 2480 TX RSE

Note : BLE

		_							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	d Bu V/m	dB	
1	1597.181	3.35	26.24	40.01	52.35	41.93	74.00	-32.07	peak
2	4482.150	6.74	33.57	41.86	48.41	46.86	74.00	-27.14	peak
3	4960.000	7.26	34.15	42.27	49.02	48.16	74.00	-25.84	peak
4	6795.879	8.44	35.78	41.83	48.99	51.38	74.00	-22.62	peak
5	7440.000	8.96	36.25	41.29	48.24	52.16	74.00	-21.84	peak
6	9920.000	10.71	37.85	37.23	41.50	52.83	74.00	-21.17	peak



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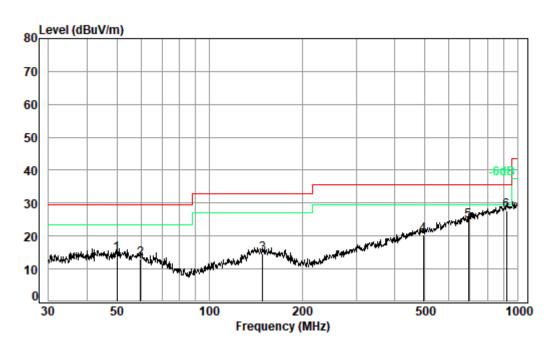
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Test Mode: 11; Polarity: Horizontal



Condition: 10m HORIZONTAL

Job No. : 01465CR

Test Mode: 11

		Read	Ant	Cable	Preamp		Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
_									
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	50.05/	25./6	20.29	0.96	32.50	14.51	29.50	-14.99	QР
2	59.649	25.38	19.20	1.05	32.49	13.14	29.50	-16.36	QP
3	148.963	25.36	20.15	1.48	32.42	14.57	33.00	-18.43	QP
4	495.934	25.84	23.96	2.79	32.30	20.29	35.60	-15.31	QP
5	694.417	26.71	27.00	3.29	32.30	24.70	35.60	-10.90	QP
6 pp	922.516	25.91	29.80	3.50	31.39	27.82	35.60	-7.78	OP



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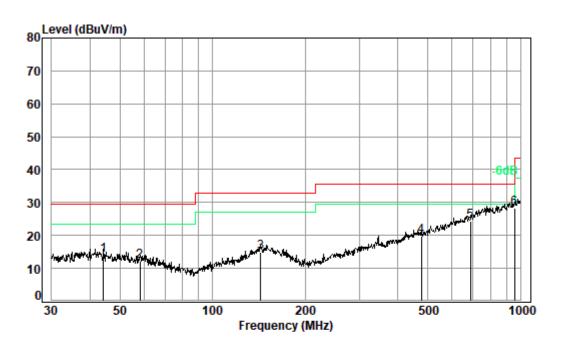


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Test Mode: 11; Polarity: Vertical



Condition: 10m VERTICAL

: 01465CR Job No.

Test Mode: 11

		Read	Ant	Cable	Preamp		Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	44.275	25.13	20.33	0.94	32.50	13.90	29.50	-15.60	QP
2	58.203	24.00	19.64	1.03	32.49	12.18	29.50	-17.32	QP
3	143.326	26.12	19.87	1.46	32.42	15.03	33.00	-17.97	QP
4	477.169	25.51	23.70	2.72	32.30	19.63	35.60	-15.97	QP
5	689.565	26.28	26.99	3.28	32.30	24.25	35.60	-11.35	QP
6 pp	955.438	25.83	29.88	3.57	31.09	28.19	35.60	-7.41	OP



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The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

 $L_3 / L_{10} = D_{10} / D_3$

Note:

L₃: Level @ 3m distance. Unit: uV/m; L₁₀: Level @ 10m distance. Unit: uV/m;

D₃: 3m distance. Unit: m D₁₀: 10m distance. Unit: m

The level at 3m test distance is below:

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization
44.275	13.90	4.95	16.52	24.36	40.00	-15.64	V
58.203	12.18	4.06	13.55	22.64	40.00	-17.36	V
143.326	15.03	5.64	18.81	25.49	43.50	-18.01	V
477.169	19.63	9.58	31.94	30.09	46.00	-15.91	V
689.565	24.25	16.31	54.37	34.71	46.00	-11.29	V
955.438	28.19	25.67	85.58	38.65	46.00	-7.35	V
50.057	14.51	5.31	17.72	24.97	40.00	-15.03	Н
59.649	13.14	4.54	15.13	23.60	40.00	-16.40	Н
148.963	14.57	5.35	17.84	25.03	43.50	-18.47	Н
495.934	20.29	10.34	34.47	30.75	46.00	-15.25	Н
694.417	24.70	17.18	57.26	35.16	46.00	-10.84	Н
922.516	27.82	24.60	82.01	38.28	46.00	-7.72	Н



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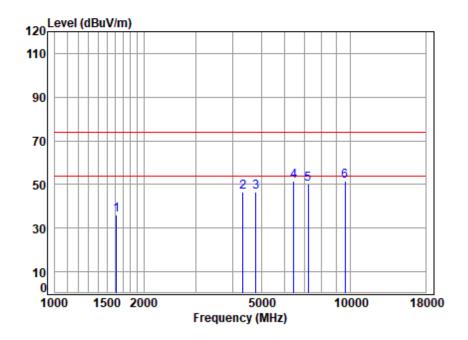
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Test Mode: 12; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL
Job No : 01465CR\01466CR
Mode : 2402 TX RSE

Note : BLE

		_								
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1615.754	3.36	26.32	40.02	46.26	35.92	74.00	-38.08	peak	
2	4341.886	6.61	33.33	41.73	48.44	46.65	74.00	-27.35	peak	
3	4804.000	7.10	33.97	42.14	47.49	46.42	74.00	-27.58	peak	
4	6432.732	8.28	35.54	42.08	49.88	51.62	74.00	-22.38	peak	
5	7206.000	8.74	36.07	41.50	46.93	50.24	74.00	-23.76	peak	
6	9608.000	10.81	37.67	37.76	41.00	51.72	74.00	-22.28	peak	



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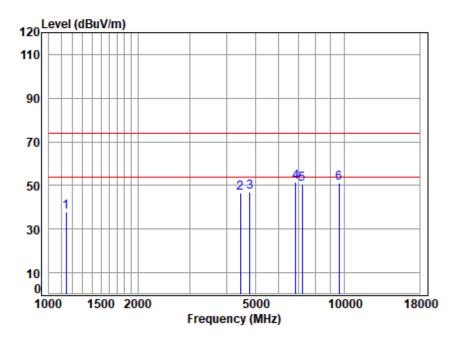
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Test Mode: 12; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01465CR\01466CR Mode : 2402 TX RSE

Note : BLE

		_							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	d Bu V/m	dB	
1	1145.507	2.66	24.34	39.72	50.56	37.84	74.00	-36.16	peak
2	4456.315	6.72	33.53	41.84	47.96	46.37	74.00	-27.63	peak
3	4804.000	7.10	33.97	42.14	47.97	46.90	74.00	-27.10	peak
4	6855.063	8.47	35.82	41.80	49.22	51.71	74.00	-22.29	peak
5	7206.000	8.74	36.07	41.50	47.34	50.65	74.00	-23.35	peak
6	9608.000	10.81	37.67	37.76	40.45	51.17	74.00	-22.83	peak



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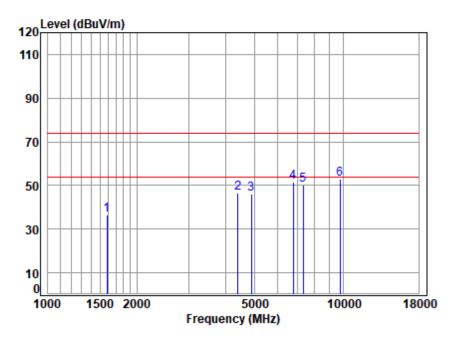
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Test Mode: 12; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL
Job No : 01465CR\01466CR
Mode : 2440 TX RSE

Note : BLE

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1587.975	3.34	26.20	40.00	47.15	36.69	74.00	-37.31	peak
2	4405.090	6.67	33.44	41.79	48.28	46.60	74.00	-27.40	peak
3	4880.000	7.18	34.06	42.20	47.04	46.08	74.00	-27.92	peak
4	6776.265	8.43	35.77	41.85	49.09	51.44	74.00	-22.56	peak
5	7320.000	8.84	36.16	41.40	46.76	50.36	74.00	-23.64	peak
6	9760.000	10.76	37.76	37.50	41.78	52.80	74.00	-21.20	peak



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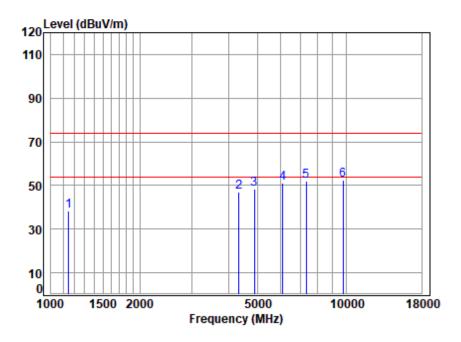
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Test Mode: 12; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber Condition: 3m VERTICAL

Job No : 01465CR\01466CR Mode : 2440 TX RSE

Note : BLE

		_							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1148.823	2.67	24.35	39.72	50.88	38.18	74.00	-35.82	peak
2	4341.886	6.61	33.33	41.73	48.78	46.99	74.00	-27.01	peak
3	4880.000	7.18	34.06	42.20	49.31	48.35	74.00	-25.65	peak
4	6088.991	8.26	35.19	42.33	49.77	50.89	74.00	-23.11	peak
5	7320.000	8.84	36.16	41.40	48.30	51.90	74.00	-22.10	peak
6	9760.000	10.76	37.76	37.50	41.31	52.33	74.00	-21.67	peak



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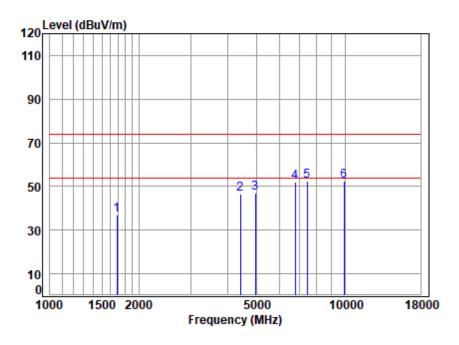
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Test Mode: 12; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL
Job No : 01465CR\01466CR
Mode : 2480 TX RSE

Note : BLE

		_							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
4	4607 247	2 42	26.62	40.05	46.00	36 70	74.00	27.24	
1	1687.347	3.42	26.62	40.05	46.80	36.79	74.00	-3/.21	peak
2	4417.841	6.68	33.46	41.80	48.34	46.68	74.00	-27.32	peak
3	4960.000	7.26	34.15	42.27	48.06	47.20	74.00	-26.80	peak
4	6776.265	8.43	35.77	41.85	49.57	51.92	74.00	-22.08	peak
5	7440.000	8.96	36.25	41.29	48.71	52.63	74.00	-21.37	peak
6	9920.000	10.71	37.85	37.23	40.97	52.30	74.00	-21.70	peak



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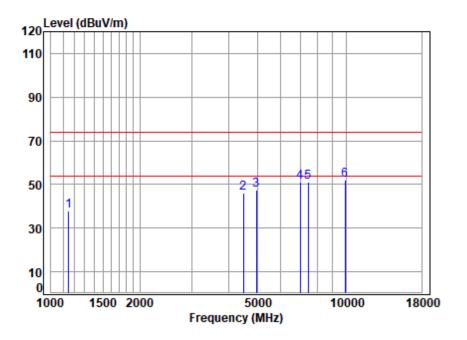
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Test Mode: 12; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 01465CR\01466CR

Mode : 2480 TX RSE

Note : BLE

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
						ID 1//	ID 1//		
	MHz	dB	aB/m	dB	aBuv	dBuV/m	aBuv/m	dB	
1	1148.823	2.67	24.35	39.72	50.39	37.69	74.00	-36.31	peak
2	4482.150	6.74	33.57	41.86	47.79	46.24	74.00	-27.76	peak
3	4960.000	7.26	34.15	42.27	48.26	47.40	74.00	-26.60	peak
4	6974.982	8.53	35.89	41.72	48.35	51.05	74.00	-22.95	peak
5	7440.000	8.96	36.25	41.29	47.08	51.00	74.00	-23.00	peak
6	9920.000	10.71	37.85	37.23	40.90	52.23	74.00	-21.77	peak



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8 **Emission Test Results**

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

Test Requirement: 47 CFR Part 15, Subpart C 15.247 Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Francisco (MALLE)	Conducted limit(dBµV)							
Frequency of emission(MHz)	Quasi-peak	Average						
0.15-0.5	66 to 56*	56 to 46*						
0.5-5	56	46						
5-30	60	50						
*Decreases with the logarithm of the frequency.								
Detector: Peak for pre-scan (9kHz	Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz							

8.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 55 % RH Atmospheric Pressure: 1010 mbar

8.1.2 Test Mode Description

	7.112 100t initial 2000 iption									
Pre-scan / Final test	Mode Code	Description								
Final test	05	Charge + TX mode(Left earbuds)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.								
Final test	12	Charge + TX mode(Right earbuds)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.								



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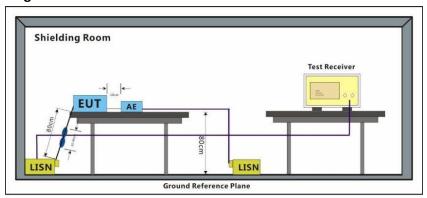
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8.1.3 Test Setup Diagram



8.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50µH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

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



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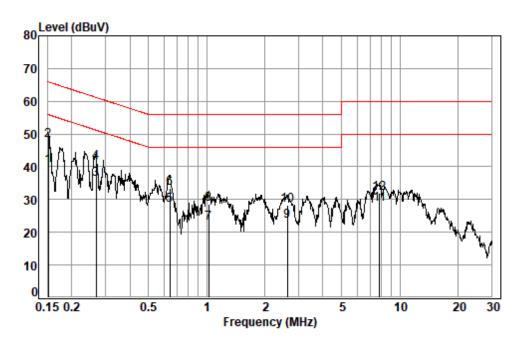
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Test Mode: 05; Line: Live line



: Shielding Room

Condition: Line Job No. : 01465CR

Test mode: 05

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1516	0.03	9.70	30.36	40.09	55.91	-15.82	Average
2	0.1516	0.03	9.70	38.48	48.21	65.91	-17.70	QP
3	0.2672	0.05	9.74	26.56	36.35	51.20	-14.85	Average
4	0.2672	0.05	9.74	31.44	41.23	61.20	-19.97	QP
5	0.6440	0.08	9.77	18.42	28.27	46.00	-17.73	Average
6	0.6440	0.08	9.77	23.62	33.47	56.00	-22.53	QP
7	1.0265	0.10	9.78	13.06	22.94	46.00	-23.06	Average
8	1.0265	0.10	9.78	18.78	28.66	56.00	-27.34	QP
9	2.6221	0.14	9.83	13.60	23.57	46.00	-22.43	Average
10	2.6221	0.14	9.83	18.20	28.17	56.00	-27.83	QP
11	7.8516	0.16	10.08	18.21	28.45	50.00	-21.55	Average
12	7.8516	0.16	10.08	21.57	31.81	60.00	-28.19	QP



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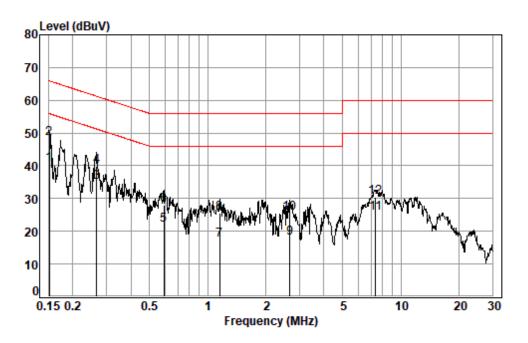
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Test Mode: 05; Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 01465CR

Test mode: 05

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1516	0.03	9.71	30.77	40.51	55.91	-15.40	Average
2	0.1516	0.03	9.71	38.66	48.40	65.91	-17.51	QP
3	0.2658	0.05	9.73	25.12	34.90	51.25	-16.35	Average
4	0.2658	0.05	9.73	30.09	39.87	61.25	-21.38	QP
5	0.5948	0.08	9.77	12.08	21.93	46.00	-24.07	Average
6	0.5948	0.08	9.77	18.15	28.00	56.00	-28.00	QP
7	1.1534	0.11	9.79	7.53	17.43	46.00	-28.57	Average
8	1.1534	0.11	9.79	15.73	25.63	56.00	-30.37	QP
9	2.6641	0.14	9.83	7.95	17.92	46.00	-28.08	Average
10	2.6641	0.14	9.83	15.62	25.59	56.00	-30.41	QP
11	7.4071	0.16	10.07	15.31	25.54	50.00	-24.46	Average
12	7.4071	0.16	10.07	20.06	30.29	60.00	-29.71	QP



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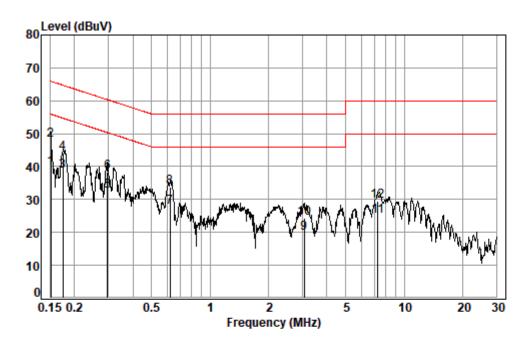
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Test Mode: 12; Line: Live line



: Shielding Room

Condition: Line Job No. : 01465CR

Test mode: 12

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1516	0.03	9.70	29.86	39.59	55.91	-16.32	Average
2	0.1516	0.03	9.70	38.19	47.92	65.91	-17.99	QP
3	0.1749	0.03	9.71	28.95	38.69	54.72	-16.03	Average
4	0.1749	0.03	9.71	34.35	44.09	64.72	-20.63	QP
5	0.2971	0.05	9.74	22.72	32.51	50.32	-17.81	Average
6	0.2971	0.05	9.74	28.54	38.33	60.32	-21.99	QP
7	0.6238	0.08	9.77	17.93	27.78	46.00	-18.22	Average
8	0.6238	0.08	9.77	23.97	33.82	56.00	-22.18	QP
9	3.0576	0.14	9.84	9.87	19.85	46.00	-26.15	Average
10	3.0576	0.14	9.84	14.39	24.37	56.00	-31.63	QP
11	7.3290	0.16	10.05	14.71	24.92	50.00	-25.08	Average
12	7.3290	0.16	10.05	19.35	29.56	60.00	-30.44	QP



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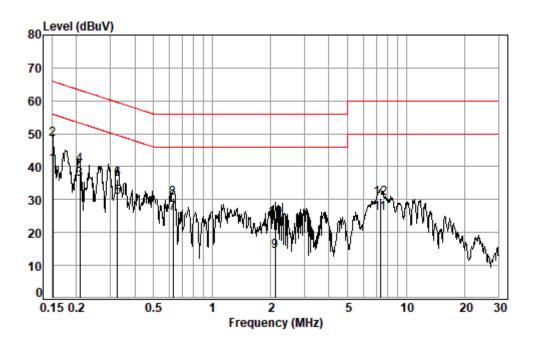
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Test Mode: 12; Line: Neutral Line



: Shielding Room

Condition: Neutral : 01465CR Job No.

Test mode: 12

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1516	0.03	9.71	30.61	40.35	55.91	-15.56	Average
2	0.1516	0.03	9.71	38.48	48.22	65.91	-17.69	QP
3	0.2083	0.04	9.72	26.41	36.17	53.27	-17.10	Average
4	0.2083	0.04	9.72	30.59	40.35	63.27	-22.92	QP
5	0.3251	0.06	9.75	20.83	30.64	49.57	-18.93	Average
6	0.3251	0.06	9.75	26.29	36.10	59.57	-23.47	QP
7	0.6305	0.08	9.77	15.86	25.71	46.00	-20.29	Average
8	0.6305	0.08	9.77	20.64	30.49	56.00	-25.51	QP
9	2.1213	0.13	9.81	4.23	14.17	46.00	-31.83	Average
10	2.1213	0.13	9.81	14.35	24.29	56.00	-31.71	QP
11	7.3680	0.16	10.06	15.68	25.90	50.00	-24.10	Average
12	7.3680	0.16	10.06	20.26	30.48	60.00	-29.52	QP



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9 **Test Setup Photo**

Refer to Setup Photos

10 EUT Constructional Details (EUT Photos)

Refer to EUT External and Internal photos



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11 Appendix

Appendix for 15.247

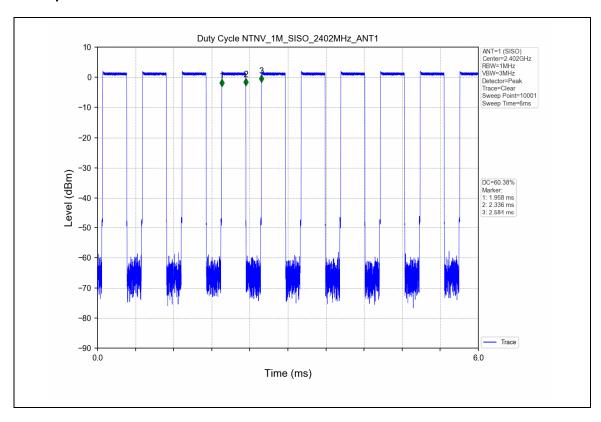
For Right earbuds

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)
1M	2402	SISO	1	0.378	0.626	60.38	2.19
	2440	SISO	1	0.377	0.624	60.42	2.19
	2480	SISO	1	0.377	0.625	60.32	2.20

1.2 Test Graph





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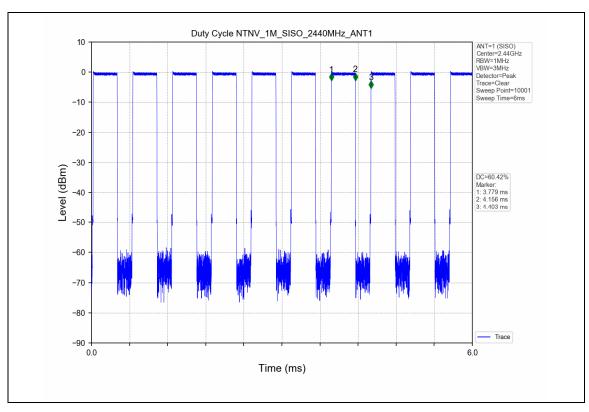
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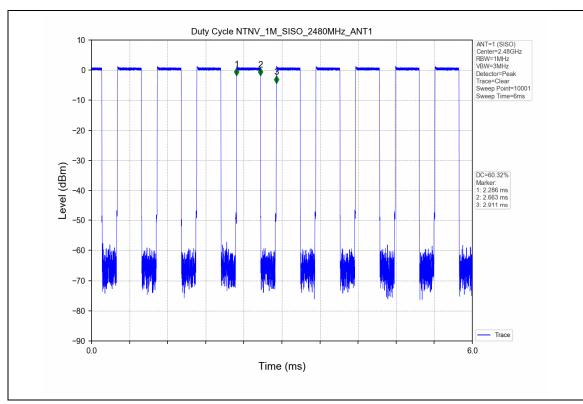
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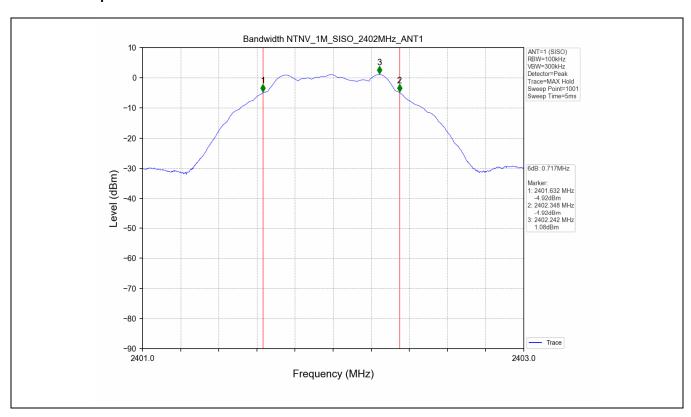
2. Bandwidth

2.1 Test Result

Test Mode	Frequency	TX Type	ANT No.	6dB Ba	ndwidth	Verdict
i est Mode	(MHz)	1 × 1 ype	AINT INO.	Test Result (MHz)	Limits (MHz)	verdict
	2402	SISO	1	0.717	≥0.5	PASS
1M	2440	SISO	1	0.716	≥0.5	PASS
	2480	SISO	1	0.714	≥0.5	PASS

Test Mode	Frequency	TX Type	ANT No.	99% Occupied Bandwidth Test Result (MHz)			
i est Mode	(MHz)	1 × 1 ype					
	2402	SISO	1	1.032	Only for Report Use		
1M	2440	SISO	1	1.032	Only for Report Use		
	2480	SISO	1	1.034	Only for Report Use		

2.2 Test Graph - 6dB Bandwidth





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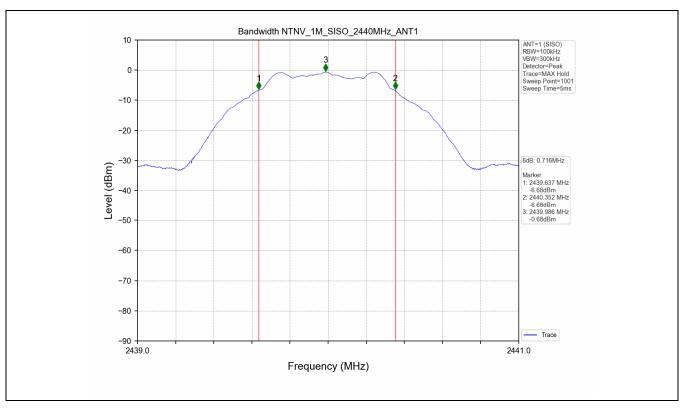
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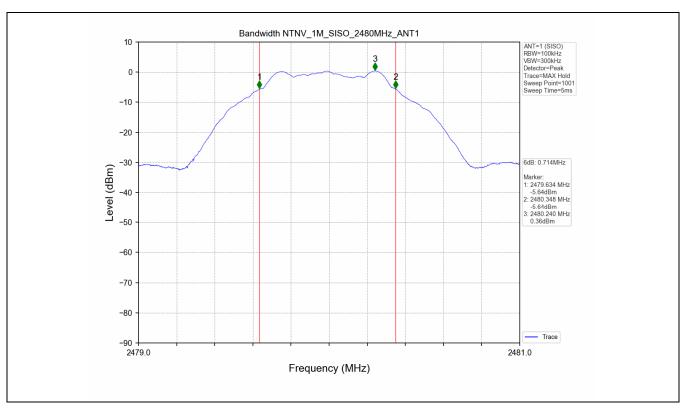
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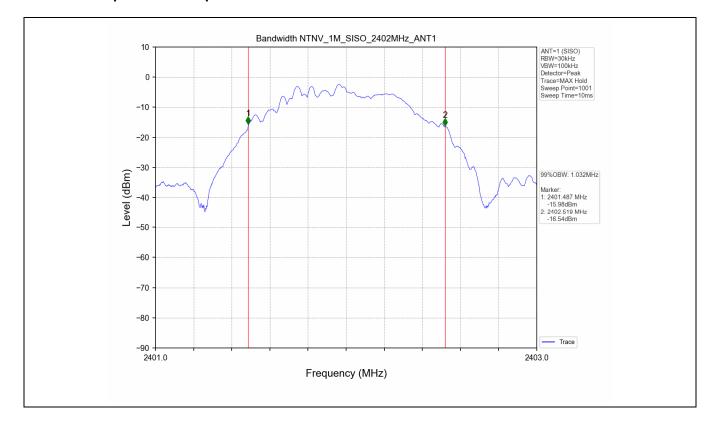


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2.3 Test Graph - 99% Occupied Bandwidth





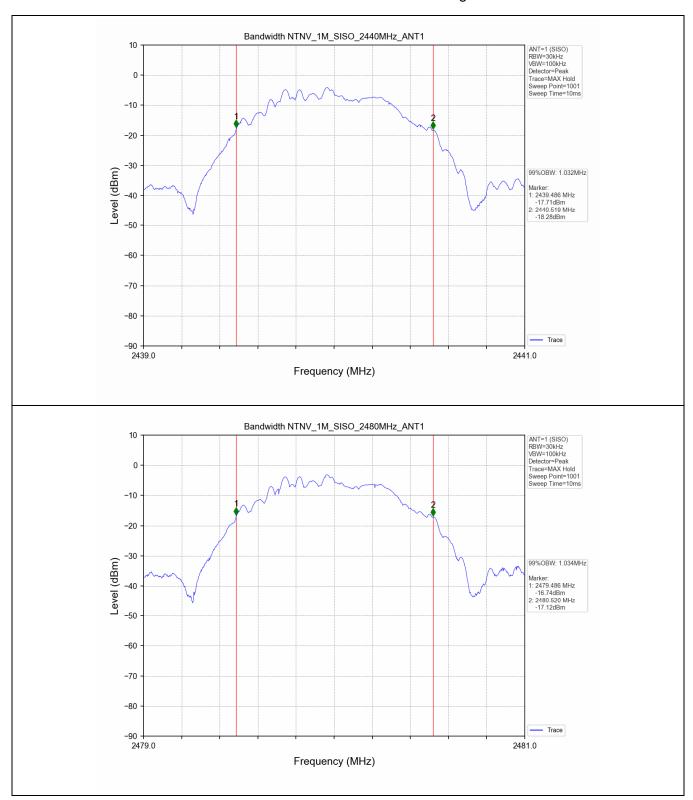
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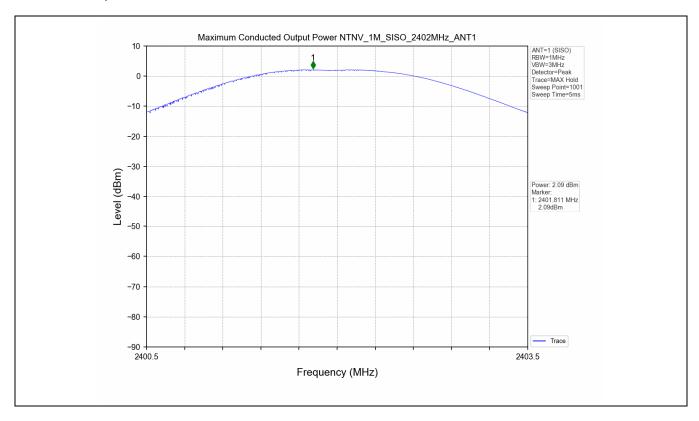
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3. Maximum Conducted Output Power

3.1 Test Result

Test Mode	Frequency (MHz)	Тх Туре	Measured Peak Output Power (dBm) Ant 1	Limits (dBm)	Verdict
	2402	SISO	2.09	30	PASS
1M	2440	SISO	0.37	30	PASS
	2480	SISO	1.42	30	PASS

3.2 Test Graph





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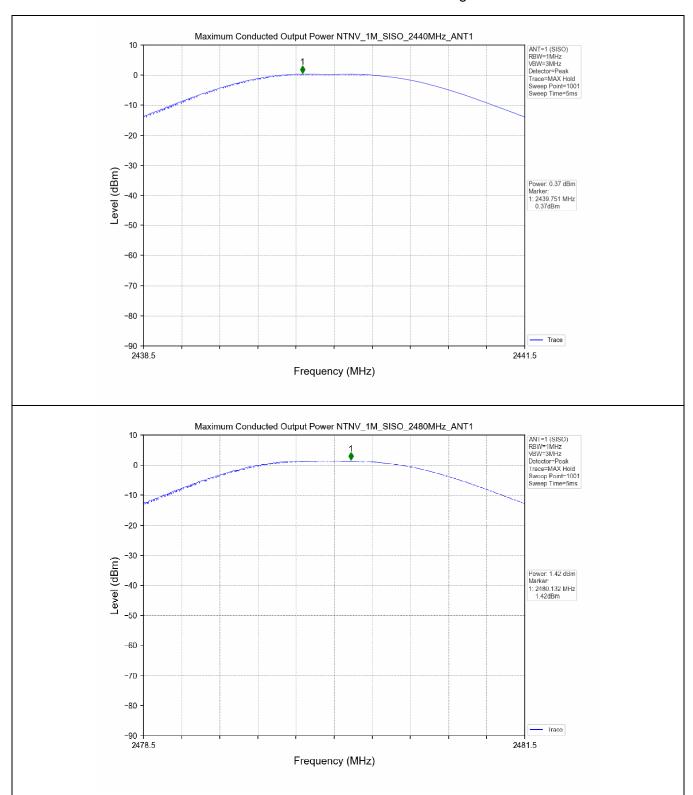
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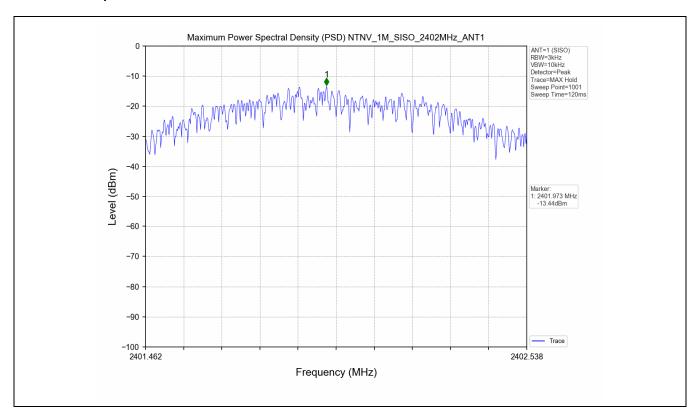
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4. Maximum Power Spectral Density (PSD)

4.1 Test Result

Test Mode	Frequency (MHz)	Тх Туре	Maximum Power Spectral Density (dBm/3KHz) Ant 1	Limits (dBm/3kHz)	Verdict
1M	2402	SISO	-13.44	≤8	PASS
	2440	SISO	-15.18	≤8	PASS
	2480	SISO	-14.22	≤8	PASS

4.2 Test Graph





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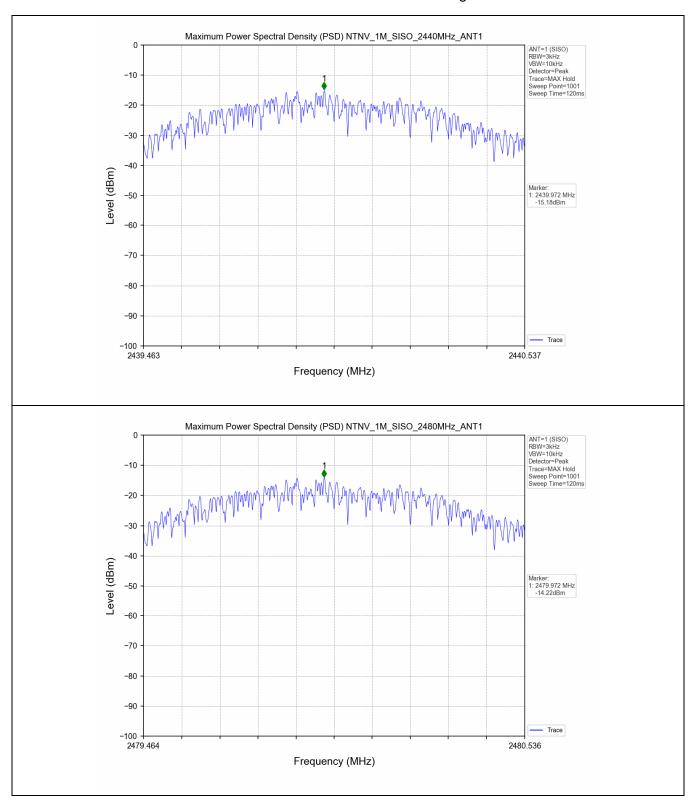
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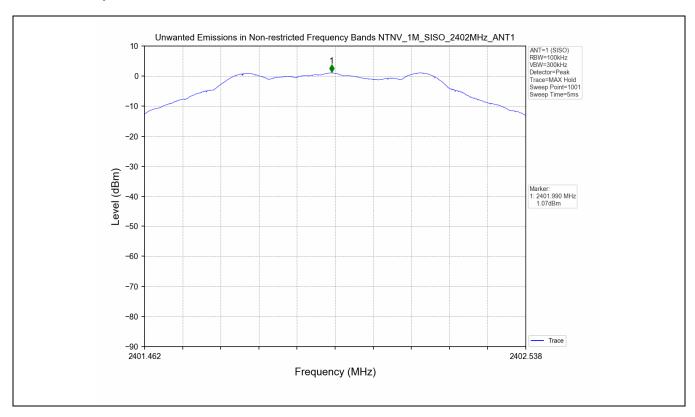
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5. Unwanted Emissions in Non-restricted Frequency Bands

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	-18.93	PASS
1M	2440	SISO	1	Refer to test graph	-18.93	PASS
	2480	SISO	1	Refer to test graph	-18.93	PASS

5.2 Test Graph





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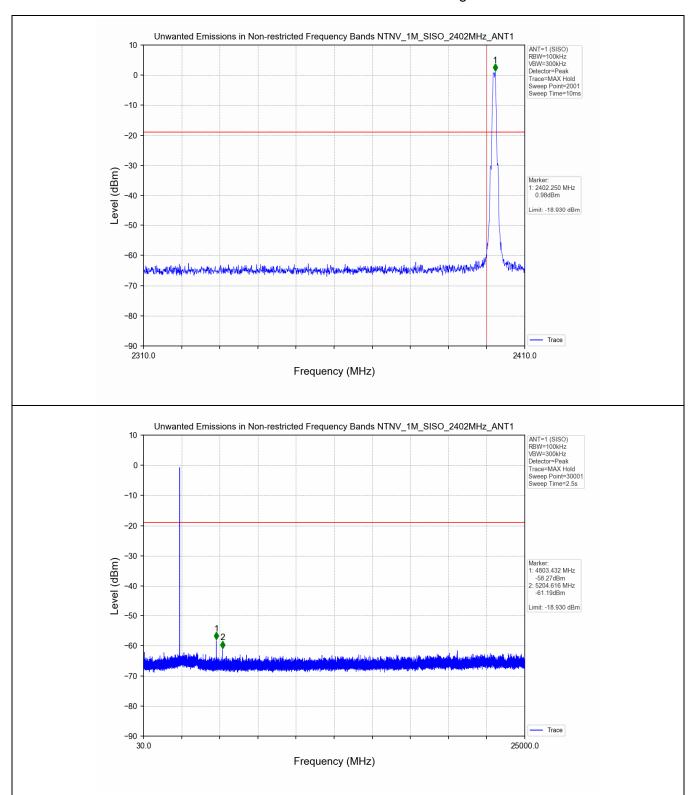
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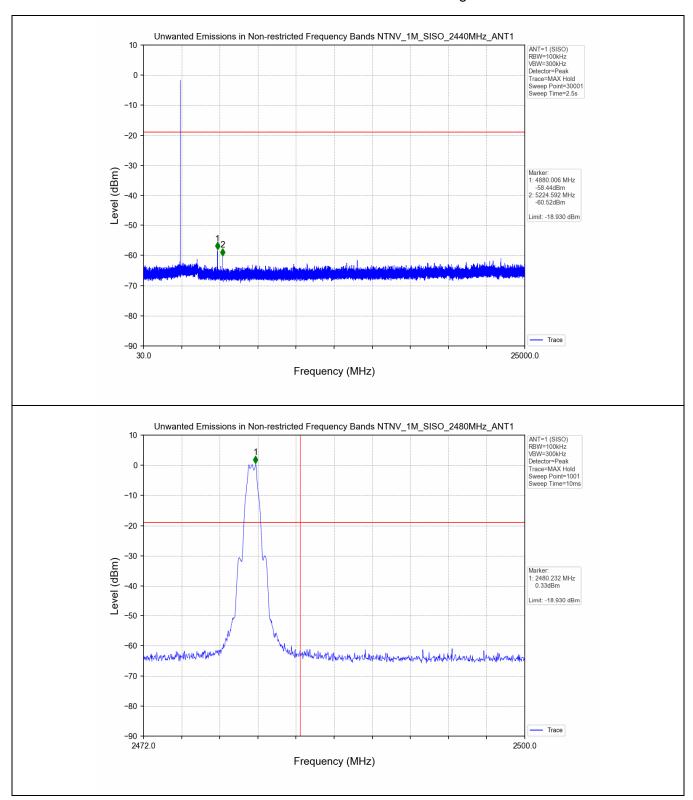
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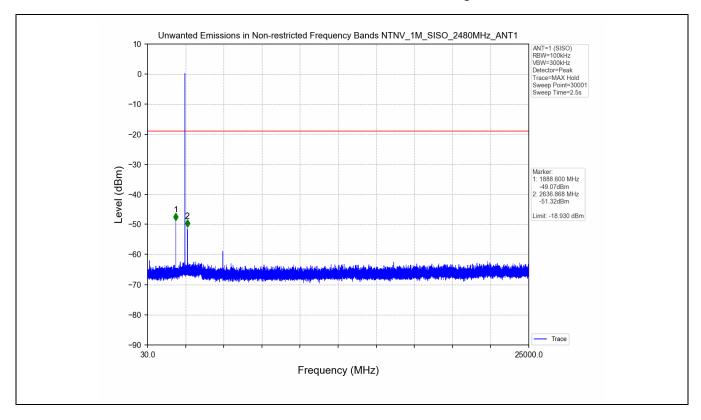
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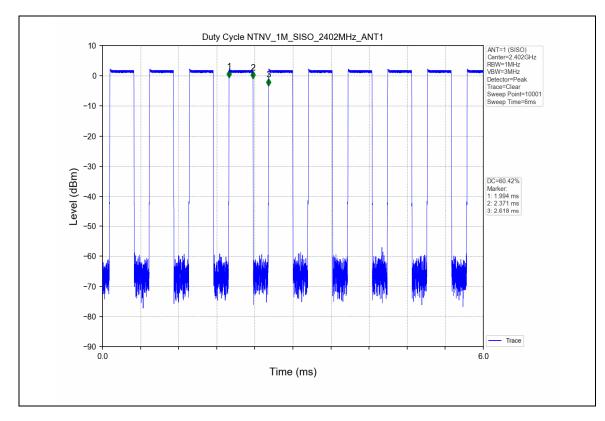
For Left earbuds

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)
1M	2402	SISO	1	0.377	0.624	60.42	2.19
	2440	SISO	1	0.377	0.624	60.42	2.19
	2480	SISO	1	0.377	0.625	60.32	2.20

1.2 Test Graph





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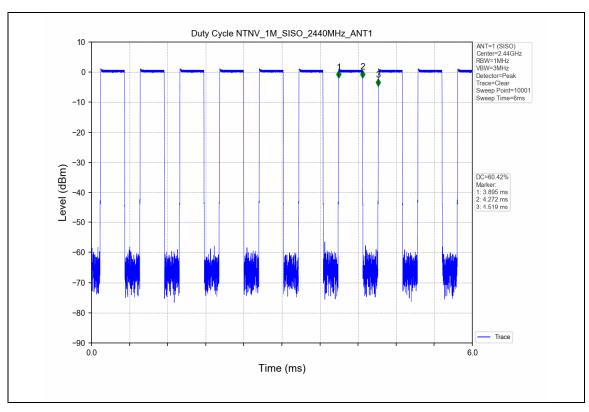
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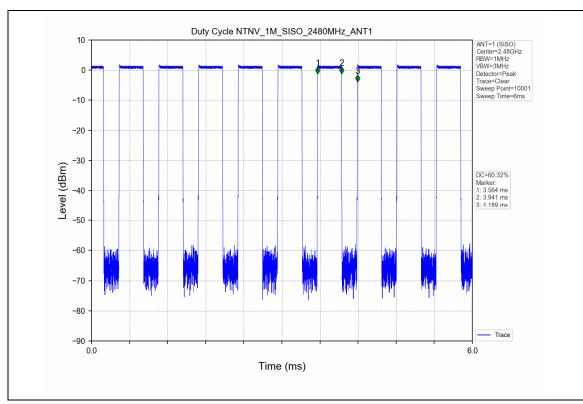
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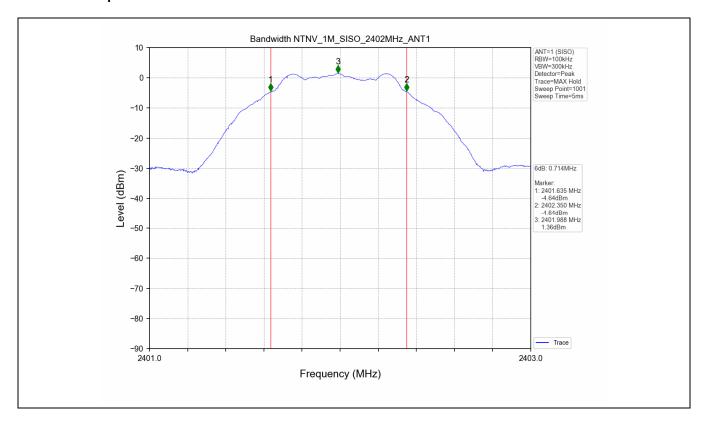
2. Bandwidth

2.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Ba	Vordict	
				Test Result (MHz)	Limits (MHz)	Verdict
	2402	SISO	1	0.714	≥0.5	PASS
1M	2440	SISO	1	0.719	≥0.5	PASS
	2480	SISO	1	0.715	≥0.5	PASS

Test Mode	Frequency	ТХ Туре	ANT No.	99% Occupied Bandwidth		
i est Mode	(MHz)			Test Result (MHz)		
1M	2402	SISO	1	1.032	Only for Report Use	
	2440	SISO	1	1.032	Only for Report Use	
	2480	SISO	1	1.032	Only for Report Use	

2.2 Test Graph - 6dB Bandwidth





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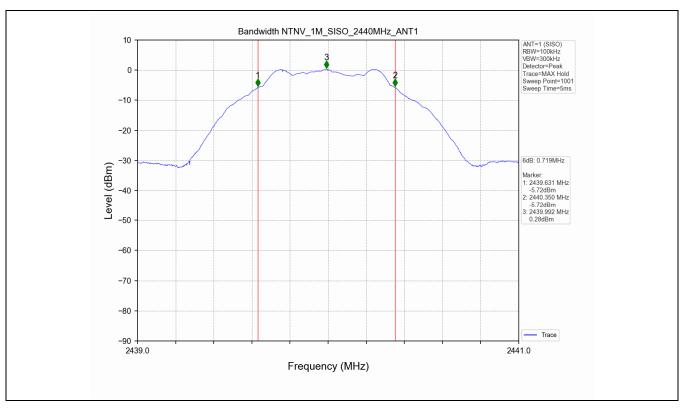
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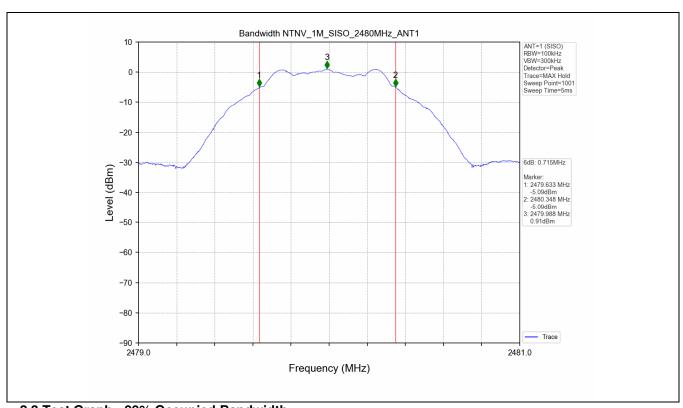
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2.3 Test Graph - 99% Occupied Bandwidth



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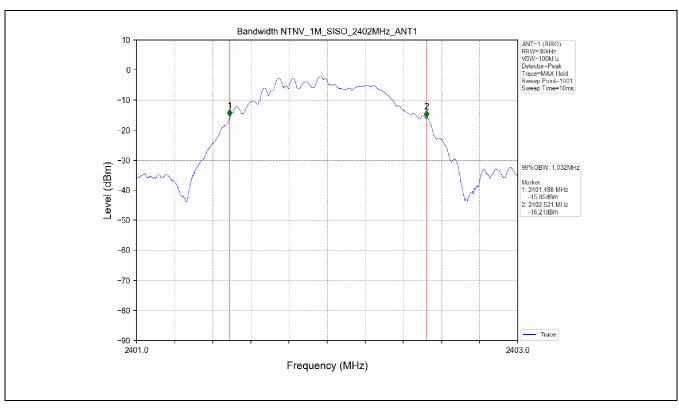
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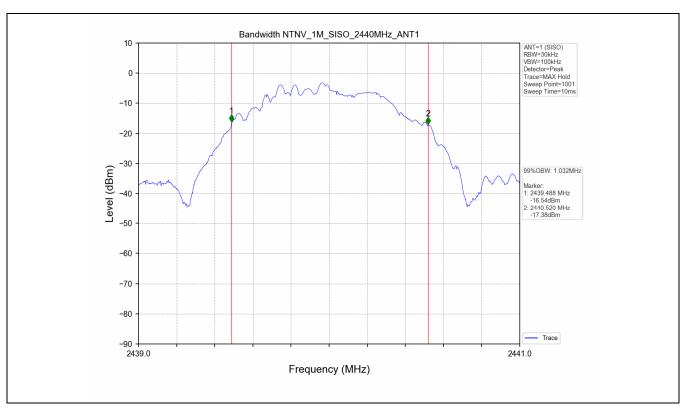
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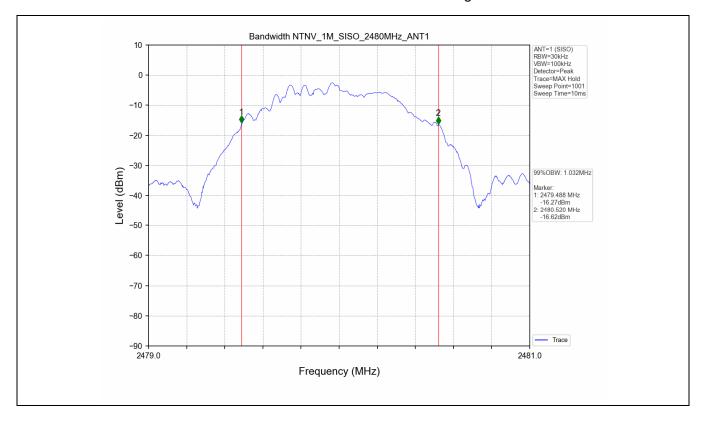
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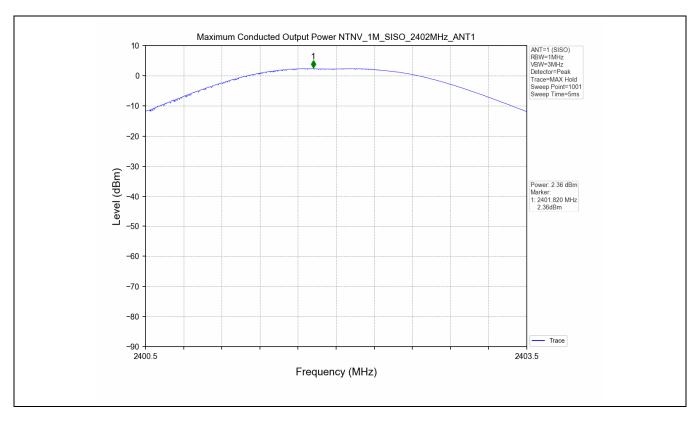
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3. Maximum Conducted Output Power

3.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict	
	(IVITZ)		Ant 1	, , ,		
1M	2402	SISO	2.36	30	PASS	
	2440	SISO	1.30	30	PASS	
	2480	SISO	1.98	30	PASS	

3.2 Test Graph





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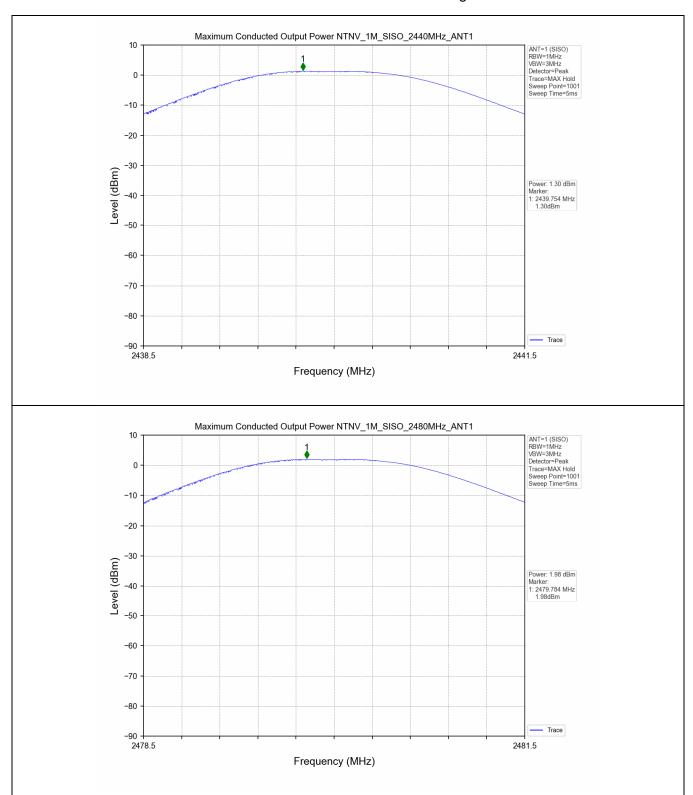
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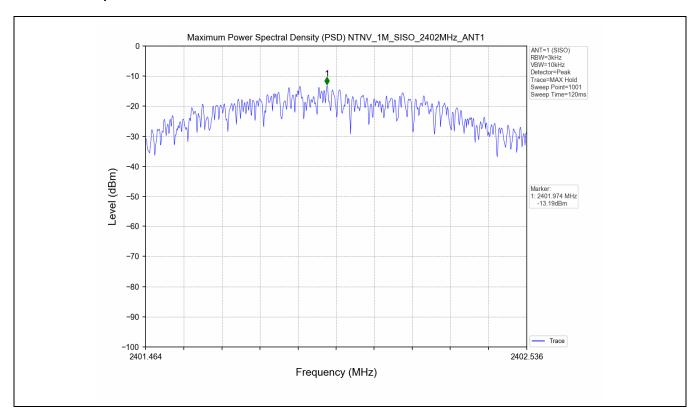
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4. Maximum Power Spectral Density (PSD)

4.1 Test Result

Test Mode	Frequency (MHz)	Тх Туре	Maximum Power Spectral Density (dBm/3KHz) Ant 1	Limits (dBm/3kHz)	Verdict
	2402	SISO	-13.19	≤8	PASS
1M	2440	SISO	-14.27	≤8	PASS
	2480	SISO	-13.65	≤8	PASS

4.2 Test Graph





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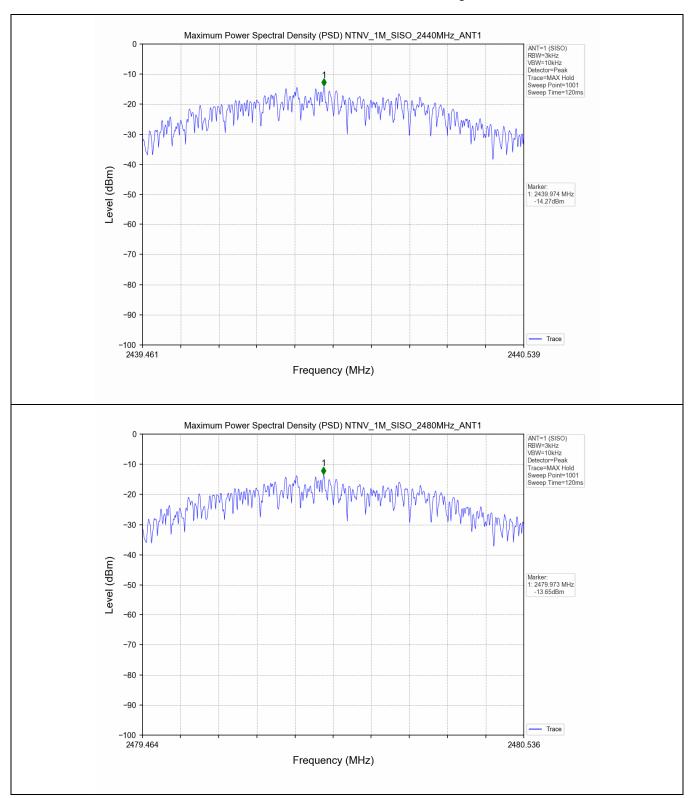
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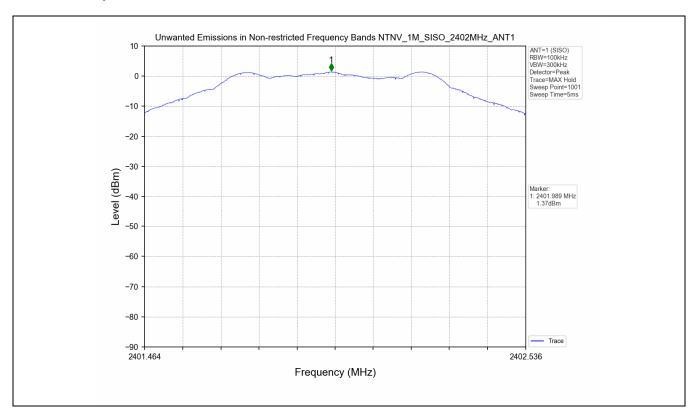
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5. Unwanted Emissions in Non-restricted Frequency Bands

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	-18.63	PASS
1M	2440	SISO	1	Refer to test graph	-18.63	PASS
	2480	SISO	1	Refer to test graph	-18.63	PASS

5.2 Test Graph





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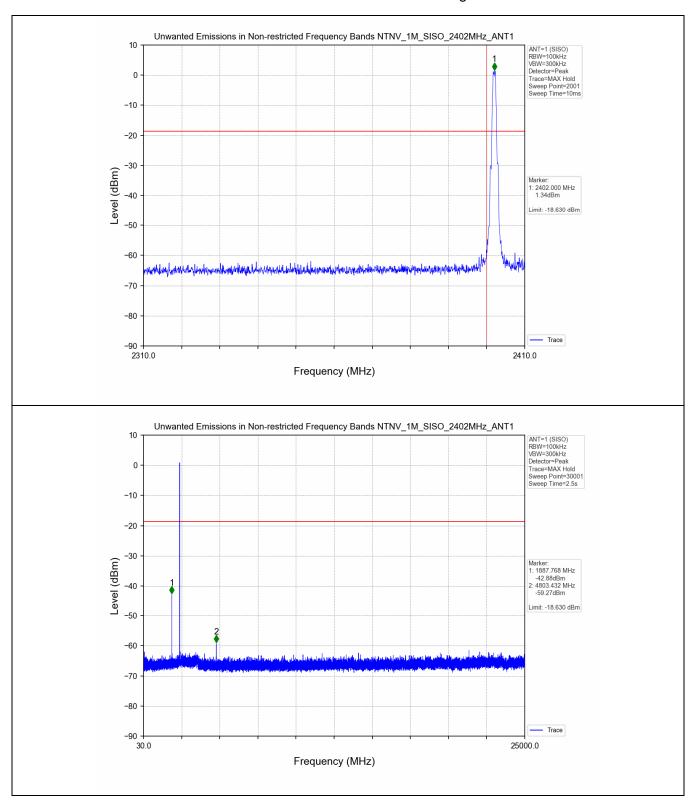
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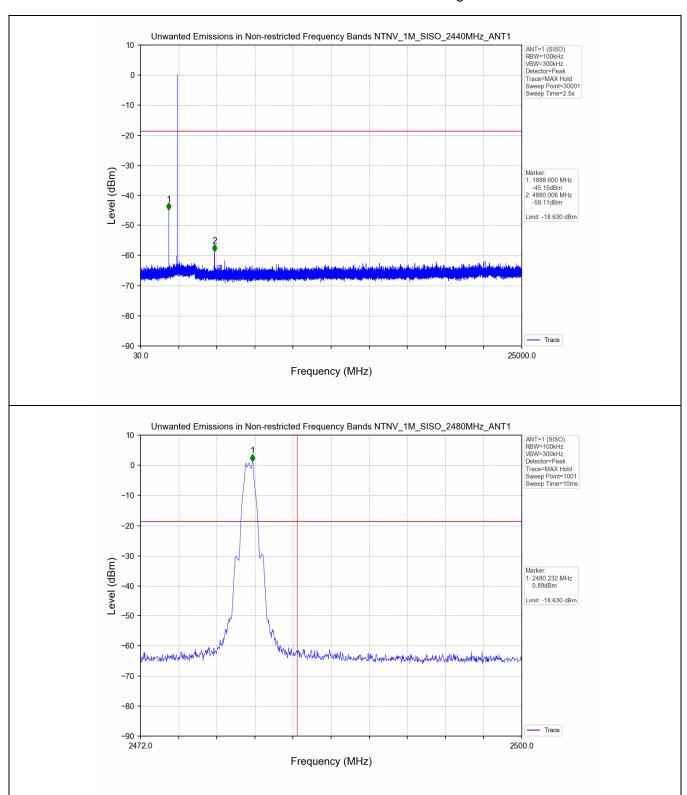
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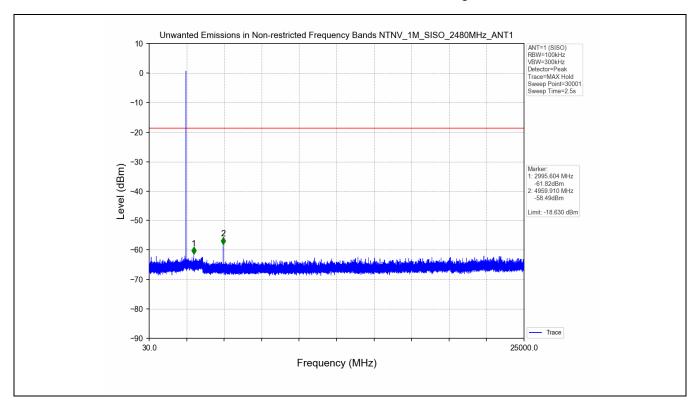
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