

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240200051504

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# TEST REPORT

**Application No.:** SZCR2402000515AT **Applicant:** B&W Group Ltd.

Address of Applicant: Dale Road Worthing BN11 2BH United Kingdom

Manufacturer: B&W Group Ltd.

Address of Manufacturer: Dale Road Worthing BN11 2BH United Kingdom

Factory: Merry Electronics (Shenzhen) Co., Ltd. The Second Longhua Branch

Address of Factory: Floor1~5, Building A&B, Merry Industrial Park, Huarong Road, Dalang

Street, Longhua New District, 518109 Shenzhen City, Guangdong Province,

PEOPLE'S REPUBLIC OF CHINA

**Equipment Under Test (EUT):** 

**EUT Name:** In-ear True Wireless Earbuds

Model No.: Pi8

Trade Mark: Bowers & Wilkins FCC ID: 2ACIX-PI8EB

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

**Date of Receipt:** 2024-02-07

**Date of Test:** 2024-02-20 to 2024-03-04

**Date of Issue:** 2024-02-28

Test Result: Pass\*

Keny Xu EMC Laboratory Manager

Ceny. Ku



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



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	Revision Record						
Version	Chapter	Date	Modifier	Remark			
01		2024-02-28		Original			

Authorized for issue by:		
	Bir Chen	
	Bill Chen/Project Engineer	-
	Exic Fu	
	Eric Fu/Reviewer	-



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#### **Test Summary** 2

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

Radio Spectrum Matter Part						
Item	Standard	Method	Requirement	Result		
Conducted Peak Output Power		ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(1)	Pass		
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass		
Power Spectrum  Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass		
Conducted Band Edges Measurement		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	·	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		



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## **General Information**

#### Details of E.U.T. 4.1

Power supply:	Lithium Ion Battery: DC 3.85V 80mAh 0.308Wh rechargeable battery which charged by charging case for left earbud and right earbud		
Cable(s):	USB-C Charging cable:55cm unshielded		
	USB-C to 3.5mm audio cable:75cm unshielded		
Cable Loss (for RF conducted test):	0.4dB		
Bluetooth Version:	V5.3 Dual mode		
Operation Frequency:	2402MHz to 2480MHz		
Modulation Type:	GFSK		
Channel Spacing:	2MHz		
Rate data:	1Mbps and 2Mbps		
Number of Channels:	40		
Antenna Type:	LDS Antenna		
Antenna Gain:	Left earbud:-9.63dBi Right earbud:-10.66dBi		

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

## 4.2 Description of Support Units

iii 2000 ipiidii di dapport diiiid								
Description	Manufacturer	Model No.	Serial No.					
The EUT has been tested as	The EUT has been tested as an independent unit.							



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## 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Peak Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB
Radiated Emissions which fall in the restricted bands	± 6.0dB (Below 1GHz);± 4.6dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Spurious Emissions Above 1GHz	± 4.6dB (1-18GHz);± 4.8dB (18- 40GHz)

#### Remark:

The Ulab (lab Uncertainty) is less than Ucispr/ETSI (CISPR/ETSI 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, Nanshan District, 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 (Member No. 1937)

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. Shenzhen EMC laboratory 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: CN1336

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

Designation Number: CN1336. Test Firm Registration Number: 787754.

#### 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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#### 5 **Equipment List**

Conducted Peak Output Power						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2023-04-01	2024-03-31	
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2023-03-21	2024-03-20	
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18	
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20	
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30	

Minimum 6dB Bandwidth						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18	
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20	
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30	

Power Spectrum Density						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18	
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20	
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30	

Conducted Band Edges Measurement						
Equipment Manufacturer Model No. Inventory No. Cal Date Ca					Cal Due Date	
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18	
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20	
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06	



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Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30
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Conducted Spurious Emissions						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18	
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20	
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30	

Radiated Emissions which fall in the restricted bands						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31	
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19	
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22	
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06	
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09	
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2023-03-20	2024-03-19	

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2021-03-27	2024-03-26
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2023-10-19	2024-10-18
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2023-09-23	2025-09-22
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2023-03-31	2024-03-30
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2023-07-07	2024-07-06



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Radiated Spurious Emissions Above 1GHz						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
3m Fully-Anechoic Chamber	, AIIIIX		SEM001-02	2023-04-01	2026-03-31	
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19	
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22	
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06	
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09	
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2023-03-20	2024-03-19	

General used equipment						
Equipment Manufacturer Model No. Inventory No. Cal Date C						
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2023-07-28	2024-07-27	
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2023-07-28	2024-07-27	
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2023-03-23	2024-03-22	



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#### Radio Spectrum Technical Requirement 6

## 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

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

#### 6.1.2 Conclusion

### Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### 15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### **EUT Antenna:**

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is Left earbud:-9.63dBi Right earbud:-10.66dBi

Antenna location: Refer to internal photo



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

## 7.1 Conducted Peak Output Power

47 CFR Part 15, Subpart C 15.247(b)(1) Test Requirement Test Method: ANSI C63.10 (2013) Section 11.9.1

### Limit:

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

### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 43.9 % RH Atmospheric Pressure: 1020 mbar

### 7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	08	TX mode(2Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	09	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	10	TX mode(2Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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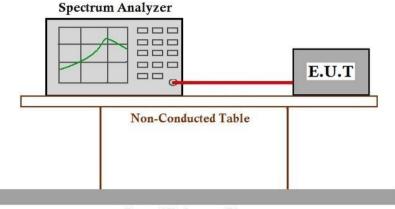
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### 7.1.3 Test Setup Diagram



Ground Reference Plane

#### 7.1.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details



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### 7.2 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

### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 43.9 % RH Atmospheric Pressure: 1020 mbar

#### 7.2.2 Test Mode Description

. III Tott moud Dodd i pilon				
Pre-scan / Final test	Mode Code	Description		
Final test	07	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.		
Final test	08	TX mode(2Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.		
Final test	09	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.		
Final test	10	TX mode(2Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.		



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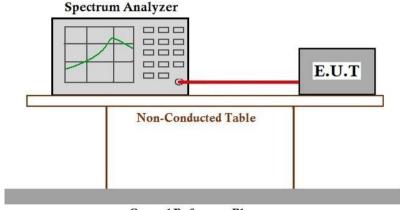
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## 7.2.3 Test Setup Diagram



**Ground Reference Plane** 

#### 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

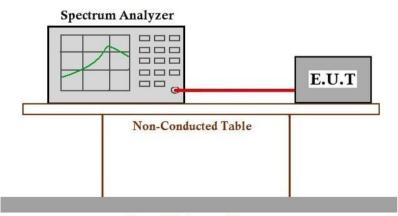
Operating Environment:

Temperature: 23.4 °C Humidity: 43.9 % RH Atmospheric Pressure: 1020 mbar

### 7.3.2 Test Mode Description

11012 1 001 1110 00 00 00 00 00 00 00 00 00 0					
Pre-scan / Final test	Mode Code	Description			
Final test	07	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.			
Final test	08	TX mode(2Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.			
Final test	09	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.			
Final test	10	TX mode(2Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.			

## 7.3.3 Test Setup Diagram



Ground Reference Plane

### 7.3.4 Measurement Procedure and Data

### Please Refer to Appendix for Details



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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).

## 7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 43.9 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Tost Mode Description

7.4.2 Test W	7.4.2 Test mode description				
Pre-scan / Final test	Mode Code	Description			
Final test	07	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.			
Final test	08	TX mode(2Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.			
Final test	09	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.			
Final test	10	TX mode(2Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.			



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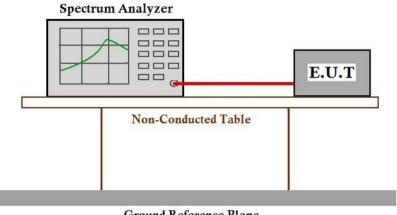
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### 7.4.3 Test Setup Diagram



Ground Reference Plane

#### 7.4.4 Measurement Procedure and Data

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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).

## 7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 43.9 % RH Atmospheric Pressure: 1020 mbar

### 7.5.2 Test Mode Description

	ola Tool Meda Boothplion									
Pre-scan / Final test	Mode Code	Description								
Final test	07	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.								
Final test	08	TX mode(2Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.								
Final test	09	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.								
Final test	10	TX mode(2Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.								



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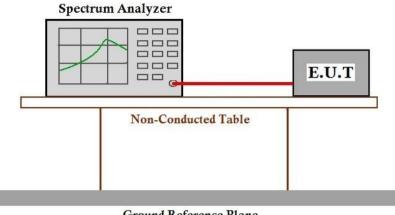
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### 7.5.3 Test Setup Diagram



Ground Reference Plane

#### 7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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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

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:

23.4 °C Temperature: Humidity: 43.9 % RH Atmospheric Pressure: 1020 mbar

#### 7.6.2 Test Mode Description

7.6.2 Test IV	.6.2 Test Mode Description									
Pre-scan / Final test	Mode Code	Description								
Final test	07	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.								
Final test	08	TX mode(2Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.								
Final test	09	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.								
Final test	10	TX mode(2Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.								



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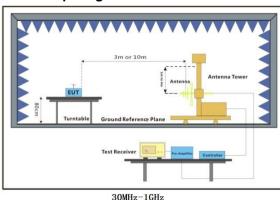
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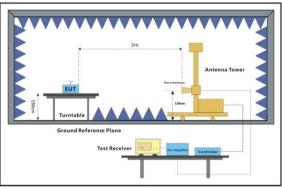


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#### 7.6.3 Test Setup Diagram





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 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 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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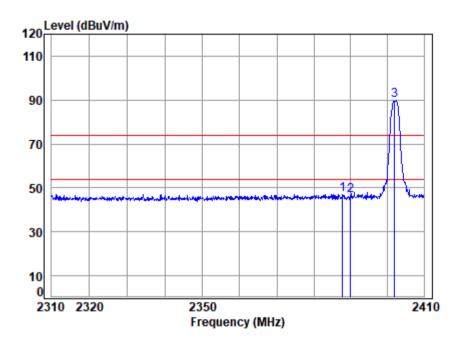


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Test Mode: 07; Polarity: Horizontal; Modulation: GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 00515AT/00516AT : 2402 Band edge Mode

: BLE 1M Note

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2387.74	5.07	29.10	37.44	50.45	47.18	74.00	-26.82	peak
2	2390.00	5.08	29.10	37.44	49.85	46.59	74.00	-27.41	peak
3	2402.00	5.09	29.09	37.41	92.91	89.68	74.00	15.68	peak



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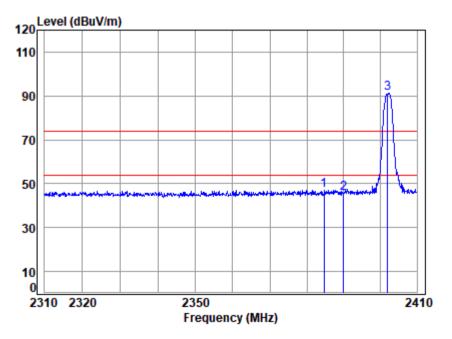


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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL Job No : 00515AT/00516AT Mode : 2402 Band edge

Note : BLF 1M

OCC		T1.1								
		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	2384.70	5.07	29.10	37.45	50.44	47.16	74.00	-26.84	peak	
2	2390.00	5.08	29.10	37.44	48.94	45.68	74.00	-28.32	peak	
3	2402.00	5.09	29.09	37.41	94.28	91.05	74.00	17.05	peak	



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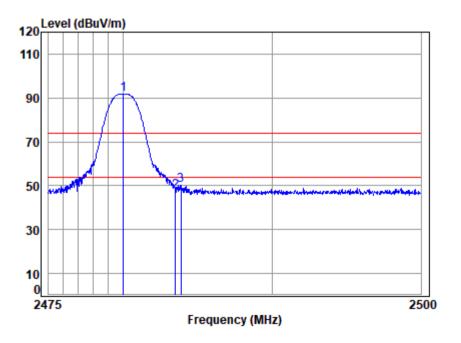


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Test Mode: 07; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 00515AT/00516AT Mode : 2480 Band edge

Note : BLE 1M

0.00		±111								
		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	2480.00	5.16	28.90	37.22	94.84	91.68	74.00	17.68	peak	
2	2483.50	5.16	28.90	37.22	50.77	47.61	74.00	-26.39	peak	
3	2483.87	5.16	28.90	37.22	53.36	50.20	74.00	-23.80	peak	



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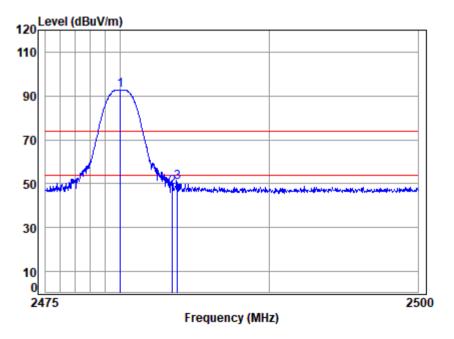


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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL : 00515AT/00516AT Mode : 2480 Band edge

Note : BLE 1M

	Enea			Preamp Factor					Romank
	rreq	LUSS	ractor	ractor	rever	rever	LINE	LIMIC	Kelliai K
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2480.00	5.16	28.90	37.22	95.92	92.76	74.00	18.76	peak
2	2483.50	5.16	28.90	37.22	51.59	48.43	74.00	-25.57	peak
3	2483.82	5.16	28.90	37.22	53.78	50.62	74.00	-23.38	peak



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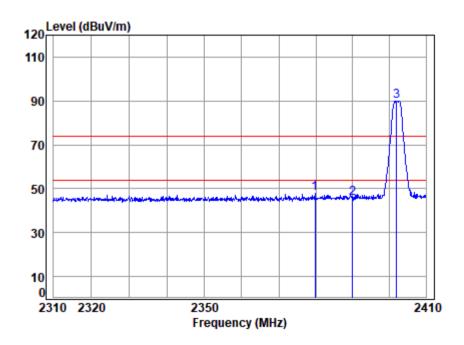


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Test Mode: 08; Polarity: Horizontal; Modulation: GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 00515AT/00516AT Job No Mode : 2402 Band edge

Note : BIF 2M

		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	2379.76	5.07	29.10	37.46	51.28	47.99	74.00	-26.01	peak	
2	2390.00	5.08	29.10	37.44	49.11	45.85	74.00	-28.15	peak	
3	2402.00	5.09	29.09	37.41	93.20	89.97	74.00	15.97	peak	



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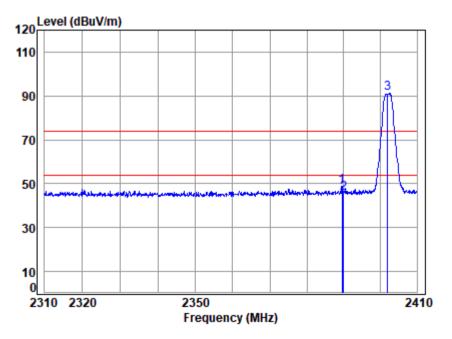


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Test Mode: 08; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL : 00515AT/00516AT Mode : 2402 Band edge

Note : BLE 2M

		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	2389.56	5.08	29.10	37.44	52.03	48.77	74.00	-25.23	peak	
2	2390.00	5.08	29.10	37.44	48.93	45.67	74.00	-28.33	peak	
3	2402.00	5.09	29.09	37.41	94.48	91.25	74.00	17.25	peak	



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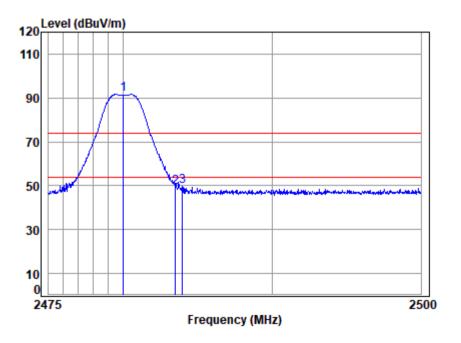


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Test Mode: 08; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 00515AT/00516AT Mode : 2480 Band edge

Note : BLE 2M

		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	2480.00	5.16	28.90	37.22	94.82	91.66	74.00	17.66	peak	
2	2483.50	5.16	28.90	37.22	52.22	49.06	74.00	-24.94	peak	
3	2483.97									



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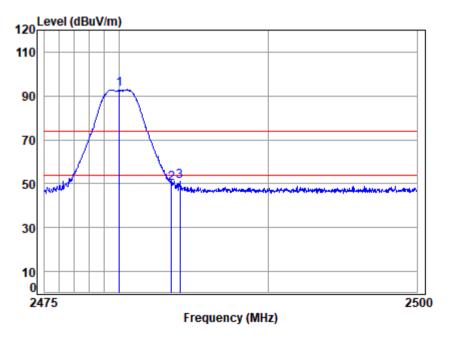


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Test Mode: 08; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL : 00515AT/00516AT Mode : 2480 Band edge

Note : BLE 2M

0.00										
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2480.00	5.16	28.90	37.22	96.02	92.86	74.00	18.86	peak	
2	2483.50	5.16	28.90	37.22	53.38	50.22	74.00	-23.78	peak	
3	2484.07								•	



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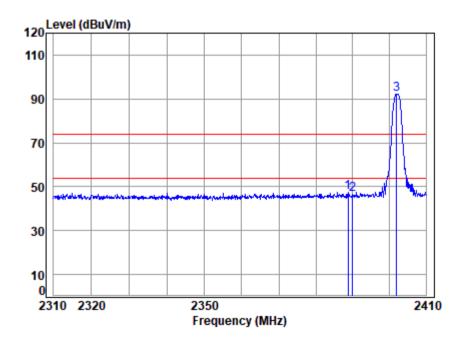


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Test Mode: 09; Polarity: Horizontal; Modulation: GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 00515AT/00516AT Job No Mode : 2402 Band edge

Note : BIF 1M

		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	2388.75	5.07	29.10	37.44	50.79	47.52	74.00	-26.48	peak	
2	2390.00	5.08	29.10	37.44	49.73	46.47	74.00	-27.53	peak	
3	2402.00								•	



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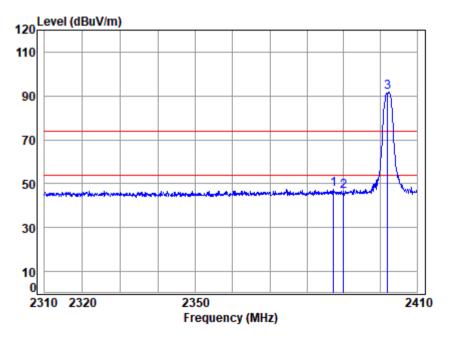


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Report No.: SZCR240200051504

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Test Mode: 09; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL Job No : 00515AT/00516AT Mode : 2402 Band edge

Note : BLE 1M

		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	2387.23	5.07	29.10	37.44	50.53	47.26	74.00	-26.74	peak	
2	2390.00	5.08	29.10	37.44	49.86	46.60	74.00	-27.40	peak	
3	2402.00	5.09	29.09	37.41	94.77	91.54	74.00	17.54	peak	



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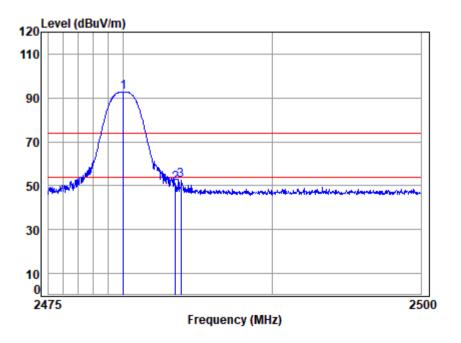


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Test Mode: 09; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 00515AT/00516AT Mode : 2480 Band edge

Note : BLE 1M

,		±111								
		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	2480.00	5.16	28.90	37.22	95.71	92.55	74.00	18.55	peak	
2	2483.50	5.16	28.90	37.22	54.36	51.20	74.00	-22.80	peak	
3	2483.87	5.16	28.90	37.22	55.46	52.30	74.00	-21.70	peak	



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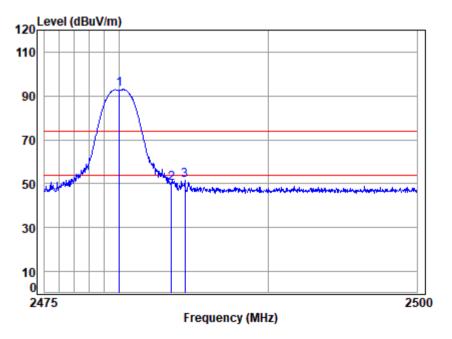


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Report No.: SZCR240200051504

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Test Mode: 09; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL : 00515AT/00516AT Mode : 2480 Band edge

Note : BLE 1M

NO CC		±111								
		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	2480.00	5.16	28.90	37.22	96.07	92.91	74.00	18.91	peak	
2	2483.50	5.16	28.90	37.22	53.34	50.18	74.00	-23.82	peak	
3	2484.40								•	



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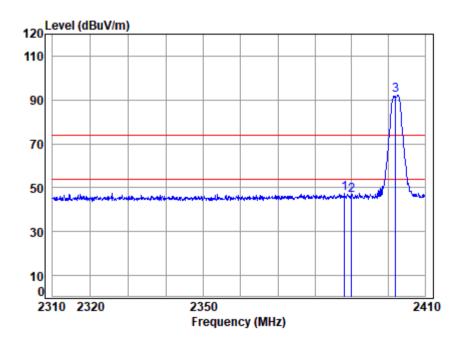


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Test Mode: 10; Polarity: Horizontal; Modulation: GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 00515AT/00516AT Job No Mode : 2402 Band edge

Note : BIF 2M

		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	2388.04	5.07	29.10	37.44	50.67	47.40	74.00	-26.60	peak	
2	2390.00	5.08	29.10	37.44	49.86	46.60	74.00	-27.40	peak	
3	2402.00								•	



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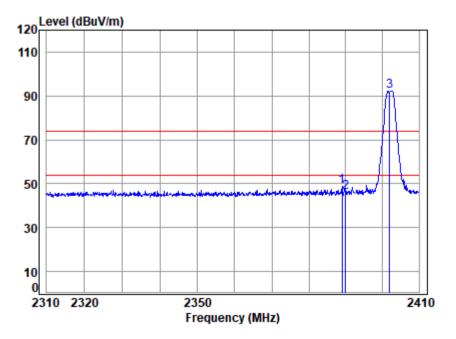


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Test Mode: 10; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL : 00515AT/00516AT Mode : 2402 Band edge

Note : BLE 2M

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.95	5.07	29.10	37.44	52.04	48.77	74.00	-25.23	peak
2	2390.00	5.08	29.10	37.44	49.16	45.90	74.00	-28.10	peak
3	2402.00	5.09	29.09	37.41	95.52	92.29	74.00	18.29	peak



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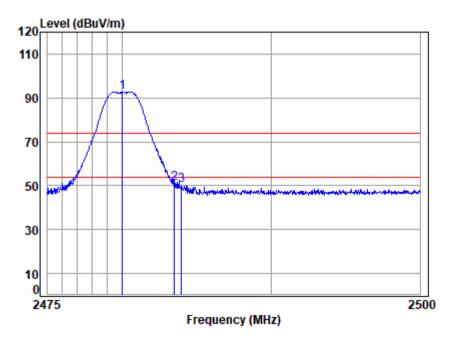


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Report No.: SZCR240200051504

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Test Mode: 10; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 00515AT/00516AT Mode : 2480 Band edge

Note : BLE 2M

		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	2480.00	5.16	28.90	37.22	95.90	92.74	74.00	18.74	peak	
2	2483.50	5.16	28.90	37.22	54.18	51.02	74.00	-22.98	peak	
3	2483.97	5.16	28.90	37,22	53.30	50.14	74.00	-23.86	peak	



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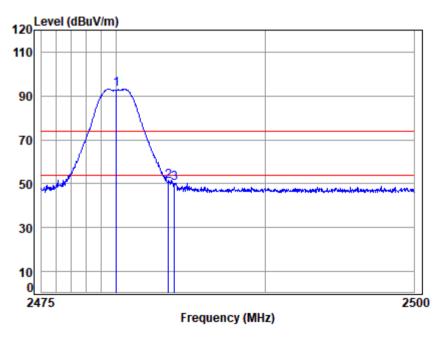


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Test Mode: 10; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL : 00515AT/00516AT Mode : 2480 Band edge

Note : BLE 2M

		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	2480.00	5.16	28.90	37.22	96.17	93.01	74.00	19.01	peak
2	2483.50	5.16	28.90	37.22	54.43	51.27	74.00	-22.73	peak
3	2483.90	5.16	28.90	37.22	53.38	50.22	74.00	-23.78	peak



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### 7.7 Radiated Spurious Emissions Below 1GHz

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

Test Method: ANSI C63.10 (2013) Section 6.4,6.5

#### 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
960-1000	500	3

### 7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 43.9 % RH Atmospheric Pressure: 1020 mbar

#### 7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	08	TX mode(2Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	09	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	10	TX mode(2Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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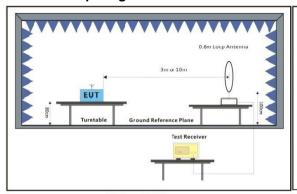
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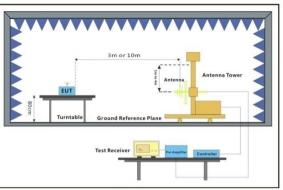


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#### 7.7.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz

#### 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 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete. Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 9kHz to 30MHz, the disturbance 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.



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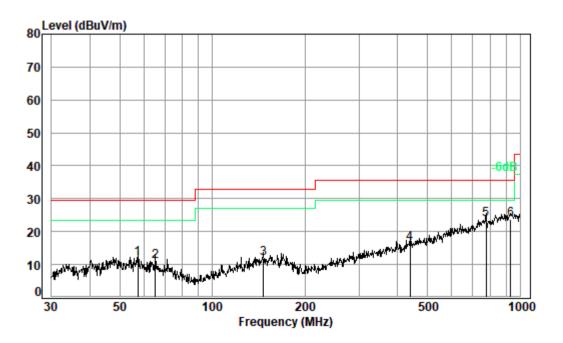


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Test Mode: 07; Polarity: Horizontal



Condition: 10m HORIZONTAL Job No. : 00515AT/00516AT

Test Mode: 07

	Freq		Ant Factor						Remark
-	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	57.191	26.15	17.70	0.54	32.48	11.91	29.50	-17.59	QP
2	65.343	26.19	16.73	0.58	32.46	11.04	29.50	-18.46	QP
3	146.888	25.64	17.64	0.94	32.40	11.82	33.00	-21.18	QP
4	438.655	26.05	20.85	1.71	32.30	16.31	35.60	-19.29	QP
5 pp	776.878	26.94	26.46	2.41	32.07	23.74	35.60	-11.86	QP
6	932.272	24.35	27.94	2.63	31.33	23.59	35.60	-12.01	OP



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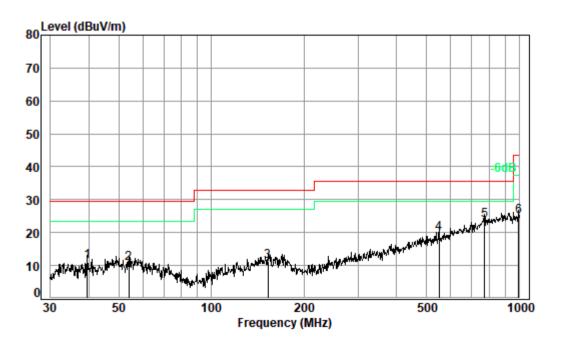


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Test Mode: 07; Polarity: Vertical



Condition: 10m VERTICAL Job No. : 00515AT/00516AT

Test Mode: 07

		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	39.576	26.50	16.70	0.45	32.50	11.15	29.50	-18.35	QP
2	53.882	24.64	18.08	0.53	32.49	10.76	29.50	-18.74	QP
3	152.664	24.88	17.87	0.96	32.40	11.31	33.00	-21.69	QP
4	549.020	27.63	22.63	1.96	32.35	19.87	35.60	-15.73	QP
5 p	p 774.158	26.81	26.45	2.40	32.07	23.59	35.60	-12.01	QP
6	996.500	25.15	28.23	2.68	31.21	24.85	43.50	-18.65	QP



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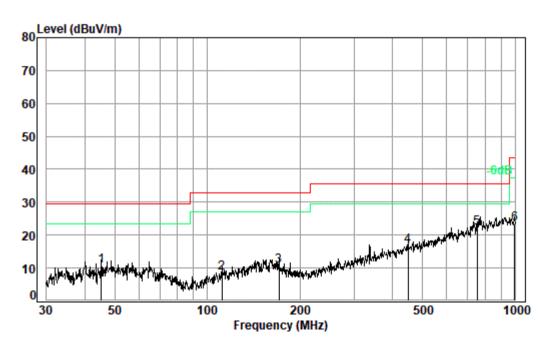


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Test Mode: 08; Polarity: Horizontal



Condition: 10m HORIZONTAL Job No. : 00515AT/00516AT

Test Mode: 08

	Frea		Ant Factor						Remark
_									
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	45.217	24.97	17.59	0.48	32.50	10.54	29.50	-18.96	QP
2	111.738	25.37	14.73	0.78	32.40	8.48	33.00	-24.52	QP
3	170.793	25.02	17.01	1.03	32.40	10.66	33.00	-22.34	QP
4	449.556	26.16	21.15	1.73	32.30	16.74	35.60	-18.86	QP
5 pp	752.743	25.43	26.44	2.36	32.14	22.09	35.60	-13.51	QP
6	996.500	23.71	28.23	2.68	31.21	23.41	43.50	-20.09	QP



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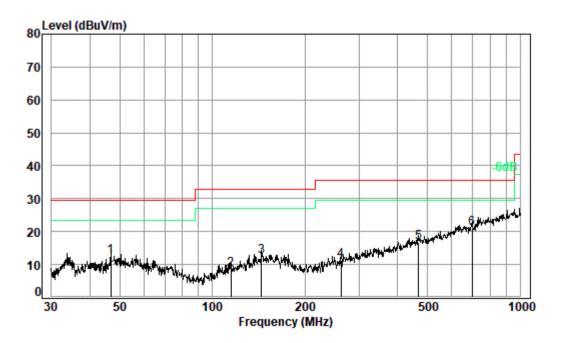


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Test Mode: 08; Polarity: Vertical



Condition: 10m VERTICAL Job No. : 00515AT/00516AT

Test Mode: 08

	Freq		Ant Factor						Remark
-	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	46.830	26.75	17.80	0.49	32.50	12.54	29.50	-16.96	QP
2	114.917	25.00	15.06	0.80	32.40	8.46	33.00	-24.54	QP
3	144.335	26.37	17.47	0.93	32.40	12.37	33.00	-20.63	QP
4	261.975	26.18	16.21	1.31	32.33	11.37	35.60	-24.23	QP
5	468.876	25.83	21.44	1.77	32.30	16.74	35.60	-18.86	QP
6 pp	699.305	26.00	25.12	2.23	32.30	21.05	35.60	-14.55	OP



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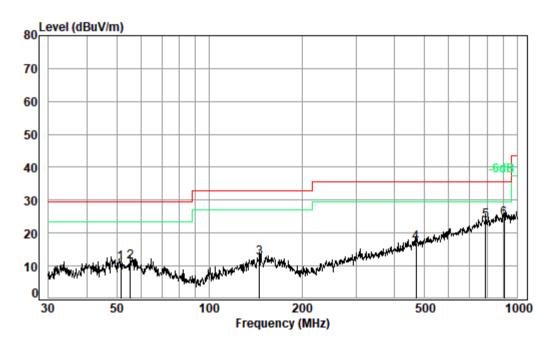


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Test Mode: 09; Polarity: Horizontal



Condition: 10m HORIZONTAL Job No. : 00515AT/00516AT

Test Mode: 09

	Frea		Ant Factor						Remark
_									
	MHZ	aBuv	dB/m	ав	ав	aBuv/m	aBuv/m	dB	
1	51.662	24.64	18.25	0.52	32.50	10.91	29.50	-18.59	QP
2	55.415	25.27	17.86	0.53	32.49	11.17	29.50	-18.33	QP
3	145.351	26.39	17.53	0.94	32.40	12.46	33.00	-20.54	QP
4	470.523	26.23	21.47	1.77	32.30	17.17	35.60	-18.43	QP
5	790.619	26.80	26.57	2.44	32.03	23.78	35.60	-11.82	QP
6 pp	909.667	25.41	27.54	2.62	31.38	24.19	35.60	-11.41	QP



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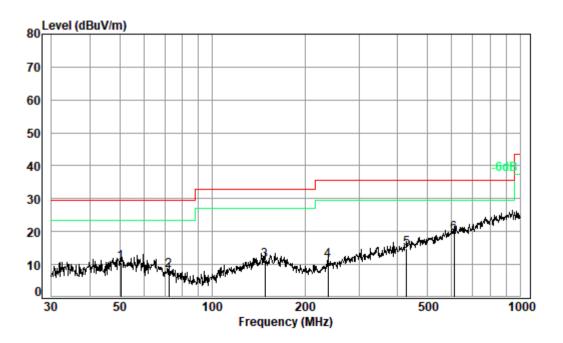


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Test Mode: 09; Polarity: Vertical



Condition: 10m VERTICAL Job No. : 00515AT/00516AT

Test Mode: 09

	Freq		Ant Factor						Remark
-	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	50.409	24.29	18.23	0.51	32.50	10.53	29.50	-18.97	QP
2	72.338	24.80	15.32	0.61	32.45	8.28	29.50	-21.22	QP
3	148.441	25.04	17.71	0.95	32.40	11.30	33.00	-21.70	QP
4	237.476	26.88	15.43	1.24	32.36	11.19	35.60	-24.41	QP
5	428.019	25.07	20.54	1.69	32.30	15.00	35.60	-20.60	QP
6 pp	609.922	25.59	24.22	2.10	32.39	19.52	35.60	-16.08	OP



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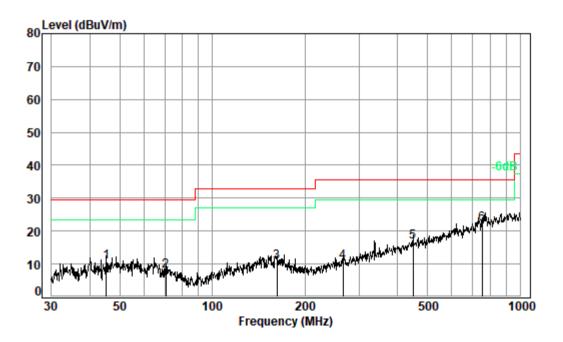


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Test Mode: 10; Polarity: Horizontal



Condition: 10m HORIZONTAL

Job No. : 00515AT

Test Mode: 10

		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	45.217	24.97	17.59	0.48	32.50	10.54	29.50	-18.96	QP
2	70.584	23.84	15.80	0.60	32.45	7.79	29.50	-21.71	QP
3	162.041	24.28	17.73	1.00	32.40	10.61	33.00	-22.39	QP
4	265.676	25.28	16.39	1.32	32.33	10.66	35.60	-24.94	QP
5	449.556	26.16	21.15	1.73	32.30	16.74	35.60	-18.86	QP
6 pp	752.743	25.43	26.44	2.36	32.14	22.09	35.60	-13.51	QP



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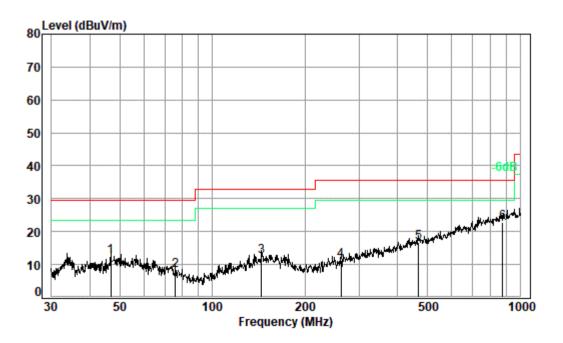


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Test Mode: 10; Polarity: Vertical



Condition: 10m VERTICAL Job No. : 00515AT/00516AT

Test Mode: 10

		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	46.830	26.75	17.80	0.49	32.50	12.54	29.50	-16.96	QP
2	75.977	25.59	14.31	0.62	32.44	8.08	29.50	-21.42	QP
3	144.335	26.37	17.47	0.93	32.40	12.37	33.00	-20.63	QP
4	261.975	26.18	16.21	1.31	32.33	11.37	35.60	-24.23	QP
5	468.876	25.83	21.44	1.77	32.30	16.74	35.60	-18.86	QP
6 p	p 878.322	24.45	27.30	2.58	31.52	22.81	35.60	-12.79	QP



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#### For Mode 07:

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:

L<sub>3</sub>: Level @ 3m distance. Unit: uV/m; L<sub>10</sub>: Level @ 10m distance. Unit: uV/m;

D<sub>3</sub>: 3m distance. Unit: m D<sub>10</sub>: 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. Polarizatio n
57.191	11.91	3.94	13.13	22.37	40.00	-17.63	Н
65.343	11.04	3.56	11.88	21.50	40.00	-18.50	Н
146.888	11.82	3.90	13.00	22.28	43.50	-21.22	Н
438.655	16.31	6.54	21.80	26.77	46.00	-19.23	Н
776.878	23.74	15.38	51.27	34.20	46.00	-11.80	Н
932.272	23.59	15.12	50.39	34.05	46.00	-11.95	Н
39.576	11.15	3.61	12.03	21.61	40.00	-18.39	V
53.882	10.76	3.45	11.50	21.22	40.00	-18.78	V
152.664	11.31	3.68	12.26	21.77	43.50	-21.73	V
549.02	19.87	9.85	32.84	30.33	46.00	-15.67	V
774.158	23.59	15.12	50.39	34.05	46.00	-11.95	V
996.5	24.85	17.48	58.26	35.31	54.00	-18.69	V



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#### For Mode 08:

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:

L<sub>3</sub>: Level @ 3m distance. Unit: uV/m; L<sub>10</sub>: Level @ 10m distance. Unit: uV/m;

D<sub>3</sub>: 3m distance. Unit: m D<sub>10</sub>: 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. Polarizatio n
46.83	12.54	4.24	14.12	23.00	40.00	-17.00	Н
114.917	8.46	2.65	8.83	18.92	43.50	-24.58	Н
144.335	12.37	4.15	13.85	22.83	43.50	-20.67	Н
261.975	11.37	3.70	12.34	21.83	46.00	-24.17	Н
468.876	16.74	6.87	22.90	27.20	46.00	-18.80	Н
699.305	21.05	11.28	37.62	31.51	46.00	-14.49	Н
51.662	10.91	3.51	11.71	21.37	40.00	-18.63	V
55.415	11.17	3.62	12.06	21.63	40.00	-18.37	V
145.351	12.46	4.20	13.99	22.92	43.50	-20.58	V
470.523	17.17	7.22	24.06	27.63	46.00	-18.37	V
790.619	23.78	15.45	51.51	34.24	46.00	-11.76	V
909.667	24.19	16.20	54.00	34.65	46.00	-11.35	V



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#### For Mode 09:

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:

L<sub>3</sub>: Level @ 3m distance. Unit: uV/m; L<sub>10</sub>: Level @ 10m distance. Unit: uV/m;

D<sub>3</sub>: 3m distance. Unit: m D<sub>10</sub>: 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. Polarizatio n
51.662	10.91	3.51	11.71	21.37	40.00	-18.63	Н
55.415	11.17	3.62	12.06	21.63	40.00	-18.37	Н
145.351	12.46	4.20	13.99	22.92	43.50	-20.58	Н
470.523	17.17	7.22	24.06	27.63	46.00	-18.37	Н
790.619	23.78	15.45	51.51	34.24	46.00	-11.76	Н
909.667	24.19	16.20	54.00	34.65	46.00	-11.35	Н
50.409	10.53	3.36	11.20	20.99	40.00	-19.01	V
72.338	8.28	2.59	8.65	18.74	40.00	-21.26	V
148.441	11.3	3.67	12.24	21.76	43.50	-21.74	V
237.476	11.19	3.63	12.09	21.65	46.00	-24.35	V
428.019	15	5.62	18.74	25.46	46.00	-20.54	V
609.922	19.52	9.46	31.54	29.98	46.00	-16.02	V



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#### For Mode 10:

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:

L<sub>3</sub>: Level @ 3m distance. Unit: uV/m; L<sub>10</sub>: Level @ 10m distance. Unit: uV/m;

D<sub>3</sub>: 3m distance. Unit: m D<sub>10</sub>: 10m distance. Unit: m

#### The level at 3m test distance is below:

The level at 311 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. Polarizatio n			
45.217	10.54	3.37	11.22	21.00	40.00	-19.00	Н			
70.584	7.79	2.45	8.17	18.25	40.00	-21.75	Н			
162.041	10.61	3.39	11.31	21.07	43.50	-22.43	Н			
265.676	10.66	3.41	11.37	21.12	46.00	-24.88	Н			
449.556	16.74	6.87	22.90	27.20	46.00	-18.80	Н			
752.743	22.09	12.72	42.40	32.55	46.00	-13.45	Н			
46.83	12.54	4.24	14.12	23.00	40.00	-17.00	V			
75.977	8.08	2.54	8.45	18.54	40.00	-21.46	V			
144.335	12.37	4.15	13.85	22.83	43.50	-20.67	V			
261.975	11.37	3.70	12.34	21.83	46.00	-24.17	V			
468.876	16.74	6.87	22.90	27.20	46.00	-18.80	V			
878.322	22.81	13.82	46.07	33.27	46.00	-12.73	V			



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### 7.8 Radiated Spurious Emissions Above 1GHz

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

Test Method: ANSI C63.10 (2013) Section 6.6

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

### 7.8.1 E.U.T. Operation

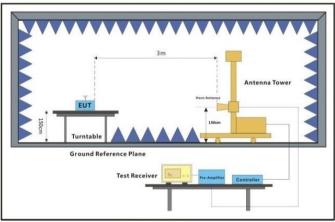
Operating Environment:

Temperature: 23.4 °C Humidity: Atmospheric Pressure: 1020 mbar 43.9 % RH

7.8.2 **Test Mode Description** 

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	08	TX mode(2Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	09	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	10	TX mode(2Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.

### 7.8.3 Test Setup Diagram



Above 1GHz



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#### 7.8.4 Measurement Procedure and Data

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

### Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 1GHz to 25GHz, the disturbance above 18GHz 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.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. 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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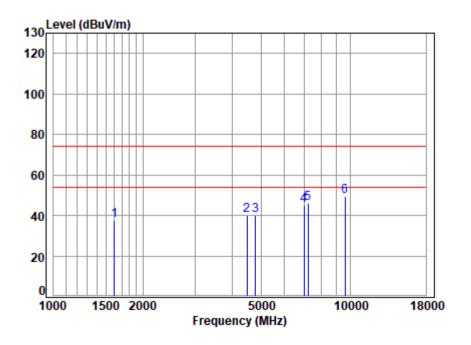


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Test Mode: 07; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 00515AT/00516AT Mode : 2402 TX RSE

Note : BLE 1M

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1601.80	4.20	26.78	38.40	45.20	37.78	74.00	-36.22	peak
2	4495.13	7.12	33.66	35.73	34.78	39.83	74.00	-34.17	peak
3	4804.00	7.31	34.32	35.52	34.03	40.14	74.00	-33.86	peak
4	6974.98	8.90	35.75	35.55	36.10	45.20	74.00	-28.80	peak
5	7206.00	9.18	35.70	35.79	36.65	45.74	74.00	-28.26	peak
6	9608.00	12.36	37.42	37.46	37.20	49.52	74.00	-24.48	peak



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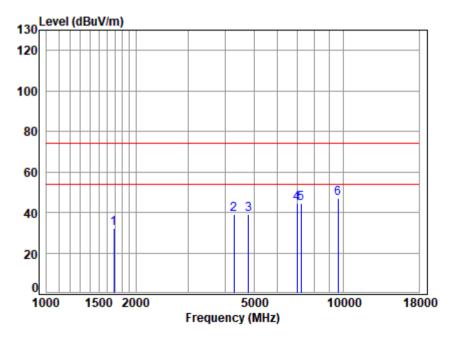


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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL : 00515AT/00516AT Mode : 2402 TX RSE Note : BLE 1M

	Freq			Preamp Factor		Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1687.35	4.31	26.23	38.41	40.20	32.33	74.00	-41.67	peak
2	4279.59	6.98	33.92	35.89	34.29	39.30	74.00	-34.70	peak
3	4804.00	7.31	34.32	35.52	33.17	39.28	74.00	-34.72	peak
4	6974.98	8.90	35.75	35.55	35.57	44.67	74.00	-29.33	peak
5	7206.00	9.18	35.70	35.79	35.15	44.24	74.00	-29.76	peak
6	9608.00	12.36	37.42	37.46	34.78	47.10	74.00	-26.90	peak



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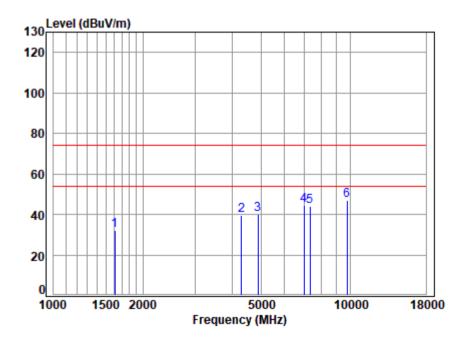


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Test Mode: 07; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL : 00515AT/00516AT Mode : 2440 TX RSE

Note : BLE 1M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
						dD: \//	dD: \//		
	MHz	dB	dB/m	ав	abuv	dBuV/m	abuv/m	dB	
1	1611.09	4.22	26.69	38.40	39.67	32.18	74.00	-41.82	peak
2	4304.40	6.99	34.04	35.87	34.62	39.78	74.00	-34.22	peak
3	4880.00	7.36	34.62	35.47	33.52	40.03	74.00	-33.97	peak
4	6995.17	8.92	35.71	35.57	35.67	44.73	74.00	-29.27	peak
5	7320.00	9.32	35.70	35.90	34.90	44.02	74.00	-29.98	peak
6	9760.00	12.47	37.38	37.43	34.57	46.99	74.00	-27.01	peak



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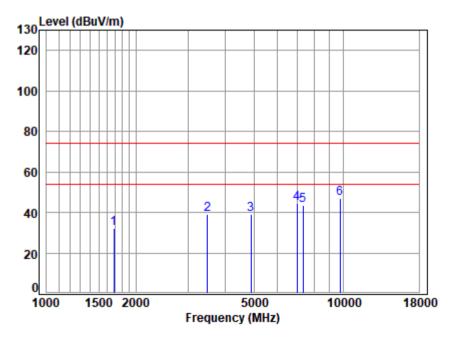


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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber Condition: 3m VERTICAL : 00515AT/00516AT Mode : 2440 TX RSE Note : BLE 1M

	Freq			Preamp Factor		Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1687.35	4.31	26.23	38.41	40.07	32.20	74.00	-41.80	peak
2	3485.60	6.21	31.66	36.12	37.54	39.29	74.00	-34.71	peak
3	4880.00	7.36	34.62	35.47	32.52	39.03	74.00	-34.97	peak
4	6974.98	8.90	35.75	35.55	35.32	44.42	74.00	-29.58	peak
5	7320.00	9.32	35.70	35.90	34.14	43.26	74.00	-30.74	peak
6	9760.00	12.47	37.38	37.43	34.33	46.75	74.00	-27.25	peak



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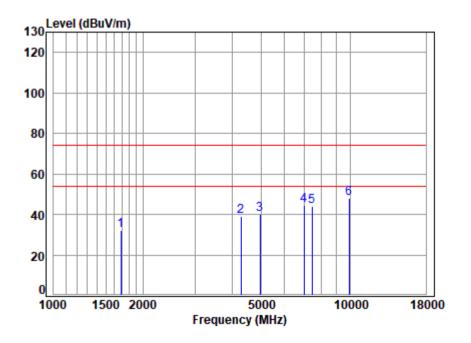


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Page: 60 of 132

Test Mode: 07; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 00515AT/00516AT Mode : 2480 TX RSE

Note : BLE 1M

	Freq			Preamp Factor		Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1687.35	4.31	26.23	38.41	40.12	32.25	74.00	-41.75	peak
2	4291.98	6.99	33.97	35.88	33.99	39.07	74.00	-34.93	peak
3	4960.00	7.41	34.56	35.42	33.36	39.91	74.00	-34.09	peak
4	6974.98	8.90	35.75	35.55	35.36	44.46	74.00	-29.54	peak
5	7440.00	9.46	35.96	36.02	34.69	44.09	74.00	-29.91	peak
6	9920.00	12.58	37.30	37.39	35.61	48.10	74.00	-25.90	peak



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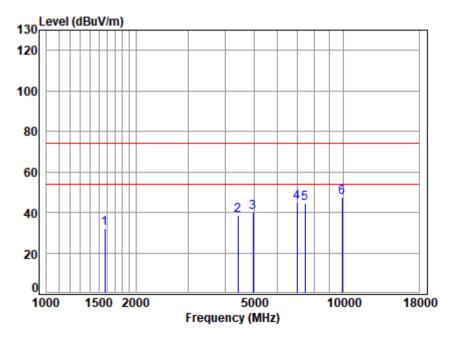


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051504

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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL : 00515AT/00516AT Mode : 2480 TX RSE Note : BLE 1M

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1574.27	4.17	26.90	38.40	39.42	32.09	74.00	-41.91	peak
2	4417.84	7.07	34.59	35.78	32.85	38.73	74.00	-35.27	peak
3	4960.00	7.41	34.56	35.42	33.37	39.92	74.00	-34.08	peak
4	6974.98	8.90	35.75	35.55	35.89	44.99	74.00	-29.01	peak
5	7440.00	9.46	35.96	36.02	35.25	44.65	74.00	-29.35	peak
6	9920.00	12.58	37.30	37.39	34.74	47.23	74.00	-26.77	peak



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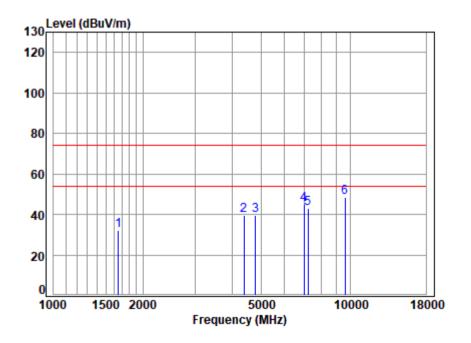


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051504

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Test Mode: 08; Polarity: Horizontal; Modulation: GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 00515AT/00516AT Mode : 2402 TX RSE

Note : BLE 2M

		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	4653.55	4 27	26.20	20.44	40.45	22.20	74.00	44 70	
1	1653.55	4.2/	26.29	38.41	40.15	32.30	74.00	-41.70	реак
2	4392.38	7.05	34.74	35.80	33.37	39.36	74.00	-34.64	peak
3	4804.00	7.31	34.32	35.52	33.56	39.67	74.00	-34.33	peak
4	6974.98	8.90	35.75	35.55	36.10	45.20	74.00	-28.80	peak
5	7206.00	9.18	35.70	35.79	34.13	43.22	74.00	-30.78	peak
6	9608.00	12.36	37.42	37.46	36.16	48.48	74.00	-25.52	peak



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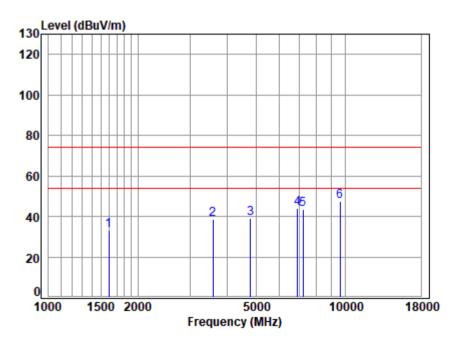


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Report No.: SZCR240200051504

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Test Mode: 08; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL : 00515AT/00516AT Mode : 2402 TX RSE Note : BLE 2M

	Freq	Cable Loss		Preamp Factor		Level			Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1597.18	4.20	26.81	38.40	40.58	33.19	74.00	-40.81	peak
2	3587.82	6.33	31.98	36.12	36.51	38.70	74.00	-35.30	peak
3	4804.00	7.31	34.32	35.52	32.88	38.99	74.00	-35.01	peak
4	6914.76	8.86	35.66	35.52	35.03	44.03	74.00	-29.97	peak
5	7206.00	9.18	35.70	35.79	34.64	43.73	74.00	-30.27	peak
6	9608.00	12.36	37.42	37.46	35.22	47.54	74.00	-26.46	peak



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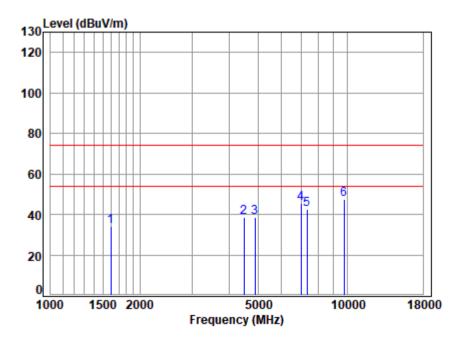


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Report No.: SZCR240200051504

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Test Mode: 08; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL : 00515AT/00516AT Mode : 2440 TX RSE

Note : BLE 2M

	Frea			Preamp Factor			Limit		Romank
	rreq	LUSS	ractor	ractor	rever	rever	LINE	LIMIT	Kelliark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1597.18	4.20	26.81	38.40	41.30	33.91	74.00	-40.09	peak
2	4482.15	7.11	33.81	35.74	33.56	38.74	74.00	-35.26	peak
3	4880.00	7.36	34.62	35.47	32.06	38.57	74.00	-35.43	peak
4	6974.98	8.90	35.75	35.55	36.21	45.31	74.00	-28.69	peak
5	7320.00	9.32	35.70	35.90	33.52	42.64	74.00	-31.36	peak
6	9760.00	12.47	37.38	37.43	34.82	47.24	74.00	-26.76	peak



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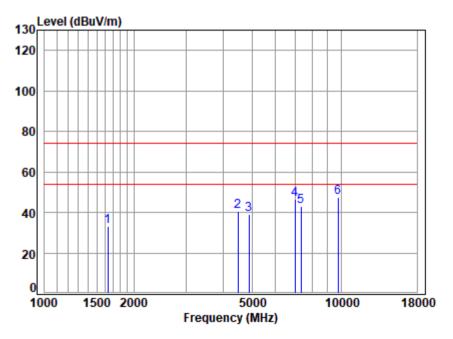


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Report No.: SZCR240200051504

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Test Mode: 08; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber Condition: 3m VERTICAL : 00515AT/00516AT Mode : 2440 TX RSE Note : BLE 2M

Freq								Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1634.54	4.25	26.45	38.41	41.07	33.36	74.00	-40.64	peak
4482.15	7.11	33.81	35.74	35.38	40.56	74.00	-33.44	peak
4880.00	7.36	34.62	35.47	32.67	39.18	74.00	-34.82	peak
6974.98	8.90	35.75	35.55	37.40	46.50	74.00	-27.50	peak
7320.00	9.32	35.70	35.90	34.08	43.20	74.00	-30.80	peak
9760.00	12.47	37.38	37.43	35.26	47.68	74.00	-26.32	peak
	MHz 1634.54 4482.15 4880.00 6974.98 7320.00	Freq Loss  MHz dB  1634.54 4.25 4482.15 7.11 4880.00 7.36 6974.98 8.90 7320.00 9.32	Freq Loss Factor  MHz dB dB/m  1634.54 4.25 26.45 4482.15 7.11 33.81 4880.00 7.36 34.62 6974.98 8.90 35.75 7320.00 9.32 35.70	Freq         Loss Factor Factor           MHz         dB         dB/m         dB           1634.54         4.25         26.45         38.41           4482.15         7.11         33.81         35.74           4880.00         7.36         34.62         35.47           6974.98         8.90         35.75         35.55           7320.00         9.32         35.70         35.90	MHz         dB         dB/m         dB         dBuV           1634.54         4.25         26.45         38.41         41.07           4482.15         7.11         33.81         35.74         35.38           4880.00         7.36         34.62         35.47         32.67           6974.98         8.90         35.75         35.55         37.40           7320.00         9.32         35.70         35.90         34.08	MHz         dB         dB/m         dB         dBuV         dBuV/m           1634.54         4.25         26.45         38.41         41.07         33.36           4482.15         7.11         33.81         35.74         35.38         40.56           4880.00         7.36         34.62         35.47         32.67         39.18           6974.98         8.90         35.75         35.55         37.40         46.50           7320.00         9.32         35.70         35.90         34.08         43.20	Freq Loss Factor Factor Level Level Line           MHz         dB         dB/m         dB         dBuV         dBuV/m         dBuV/m           1634.54         4.25         26.45         38.41         41.07         33.36         74.00           4482.15         7.11         33.81         35.74         35.38         40.56         74.00           4880.00         7.36         34.62         35.47         32.67         39.18         74.00           6974.98         8.90         35.75         35.55         37.40         46.50         74.00           7320.00         9.32         35.70         35.90         34.08         43.20         74.00	Freq         Loss Factor Factor         Level         Level         Line         Limit           MHz         dB         dB/m         dB         dBuV dBuV/m         dBuV/m         dB           1634.54         4.25         26.45         38.41         41.07         33.36         74.00         -40.64           4482.15         7.11         33.81         35.74         35.38         40.56         74.00         -33.44           4880.00         7.36         34.62         35.47         32.67         39.18         74.00         -34.82



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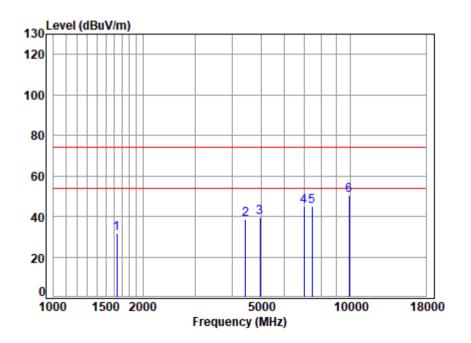


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Report No.: SZCR240200051504

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Test Mode: 08; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 00515AT/00516AT Mode : 2480 TX RSE

Note : BLE 2M

	F			Preamp					Damanla
	Freq	LOSS	Factor	Factor	rever	revei	Line	Limit	Kemark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1634.54	4.25	26.45	38.41	39.56	31.85	74.00	-42.15	peak
2	4430.63	7.08	34.43	35.77	32.74	38.48	74.00	-35.52	peak
3	4960.00	7.41	34.56	35.42	33.14	39.69	74.00	-34.31	peak
4	6995.17	8.92	35.71	35.57	36.16	45.22	74.00	-28.78	peak
5	7440.00	9.46	35.96	36.02	35.43	44.83	74.00	-29.17	peak
6	9920.00	12.58	37.30	37.39	37.89	50.38	74.00	-23.62	peak



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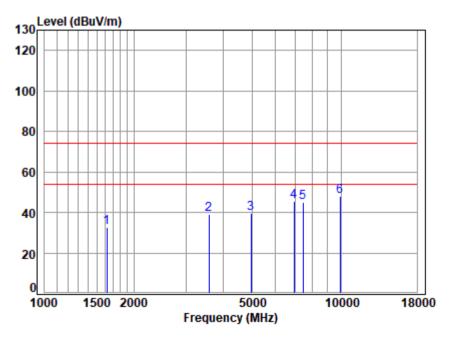


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Report No.: SZCR240200051504

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Test Mode: 08; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL : 00515AT/00516AT Mode : 2480 TX RSE Note : BLE 2M

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1625.12	4.23	26.55	38.41	40.29	32.66	74.00	-41.34	peak
2	3587.82	6.33	31.98	36.12	36.82	39.01	74.00	-34.99	peak
3	4960.00	7.41	34.56	35.42	32.97	39.52	74.00	-34.48	peak
4	6934.78	8.87	35.74	35.53	36.29	45.37	74.00	-28.63	peak
5	7440.00	9.46	35.96	36.02	35.56	44.96	74.00	-29.04	peak
6	9920.00	12.58	37.30	37.39	35.33	47.82	74.00	-26.18	peak



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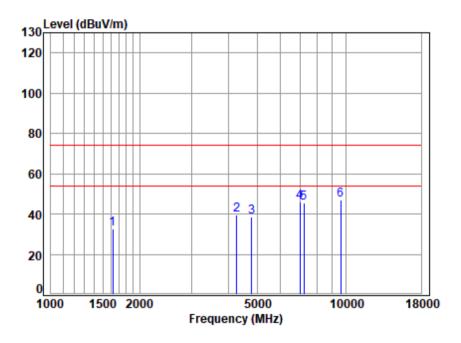


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Report No.: SZCR240200051504

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Test Mode: 09; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 00515AT/00516AT : 2402 TX RSE Mode

: BLF 1M Note

. DLL	±111							
	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	
1620.43	4.23	26.59	38.40	40.29	32.71	74.00	-41.29	peak
4267.24	6.97	33.87	35.89	34.67	39.62	74.00	-34.38	peak
4804.00	7.31	34.32	35.52	32.55	38.66	74.00	-35.34	peak
6974.98	8.90	35.75	35.55	36.88	45.98	74.00	-28.02	peak
7206.00	9.18	35.70	35.79	36.42	45.51	74.00	-28.49	peak
9608.00	12.36	37.42	37.46	34.77	47.09	74.00	-26.91	peak
	MHz 1620.43 4267.24 4804.00 6974.98 7206.00	MHz dB  1620.43 4.23 4267.24 6.97 4804.00 7.31 6974.98 8.90 7206.00 9.18	Freq         Loss Factor           MHz         dB         dB/m           1620.43         4.23         26.59           4267.24         6.97         33.87           4804.00         7.31         34.32           6974.98         8.90         35.75           7206.00         9.18         35.70	Freq         Loss Factor Factor           MHz         dB         dB/m         dB           1620.43         4.23         26.59         38.40           4267.24         6.97         33.87         35.89           4804.00         7.31         34.32         35.52           6974.98         8.90         35.75         35.55           7206.00         9.18         35.70         35.79	Freq         Loss Factor Factor         Level           MHz         dB         dB/m         dB         dBuV           1620.43         4.23         26.59         38.40         40.29           4267.24         6.97         33.87         35.89         34.67           4804.00         7.31         34.32         35.52         32.55           6974.98         8.90         35.75         35.55         36.88           7206.00         9.18         35.70         35.79         36.42	Freq         Loss Factor Factor         Level         Level           MHz         dB         dB/m         dB         dBuV         dBuV/m           1620.43         4.23         26.59         38.40         40.29         32.71           4267.24         6.97         33.87         35.89         34.67         39.62           4804.00         7.31         34.32         35.52         32.55         38.66           6974.98         8.90         35.75         35.55         36.88         45.98           7206.00         9.18         35.70         35.79         36.42         45.51	Freq         Loss Factor         Factor         Level         Level         Line           MHz         dB         dB/m         dB         dBuV         dBuV/m         dBuV/m           1620.43         4.23         26.59         38.40         40.29         32.71         74.00           4267.24         6.97         33.87         35.89         34.67         39.62         74.00           4804.00         7.31         34.32         35.52         32.55         38.66         74.00           6974.98         8.90         35.75         35.55         36.88         45.98         74.00           7206.00         9.18         35.70         35.79         36.42         45.51         74.00	1620.43



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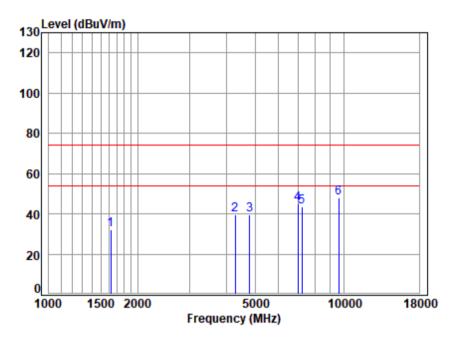


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051504

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Test Mode: 09; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL : 00515AT/00516AT : 2402 TX RSE Mode Note : BLE 1M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
									_
1	1620.43	4.23	26.59	38.40	39.63	32.05	74.00	-41.95	peak
2	4291.98	6.99	33.97	35.88	34.47	39.55	74.00	-34.45	peak
3	4804.00	7.31	34.32	35.52	33.54	39.65	74.00	-34.35	peak
4	6974.98	8.90	35.75	35.55	35.99	45.09	74.00	-28.91	peak
5	7206.00	9.18	35.70	35.79	34.55	43.64	74.00	-30.36	peak
6	9608.00	12.36	37.42	37.46	35.63	47.95	74.00	-26.05	peak



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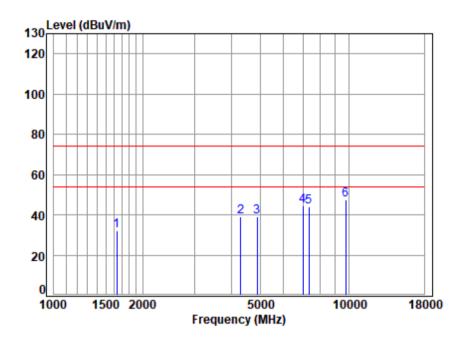


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Test Mode: 09; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL : 00515AT/00516AT : 2440 TX RSE Mode

Note : BLE 1M

		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	
	4634.54	4.05	26.45	20.44	40.00	20.27	74.00	44 63	
1	1634.54	4.25	26.45	38.41	40.08	32.37	74.00	-41.63	peak
2	4304.40	6.99	34.04	35.87	33.66	38.82	74.00	-35.18	peak
3	4880.00	7.36	34.62	35.47	32.34	38.85	74.00	-35.15	peak
4	6995.17	8.92	35.71	35.57	35.53	44.59	74.00	-29.41	peak
5	7320.00	9.32	35.70	35.90	34.72	43.84	74.00	-30.16	peak
6	9760.00	12.47	37.38	37.43	35.26	47.68	74.00	-26.32	peak



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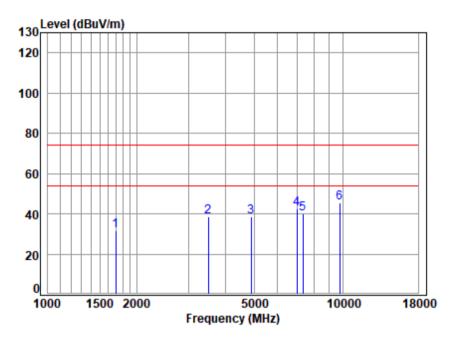


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Test Mode: 09; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber Condition: 3m VERTICAL : 00515AT/00516AT : 2440 TX RSE Mode Note : BLE 1M

		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	
	4607.43	4 22	26.24	20.44	20.44	24 54	74.00	40.46	
1	1697.13	4.33	26.21	38.41	39.41	31.54	/4.00	-42.46	peak
2	3495.69	6.22	31.62	36.12	36.95	38.67	74.00	-35.33	peak
3	4880.00	7.36	34.62	35.47	32.18	38.69	74.00	-35.31	peak
4	6974.98	8.90	35.75	35.55	33.62	42.72	74.00	-31.28	peak
5	7320.00	9.32	35.70	35.90	30.95	40.07	74.00	-33.93	peak
6	9760.00	12.47	37.38	37.43	33.27	45.69	74.00	-28.31	peak



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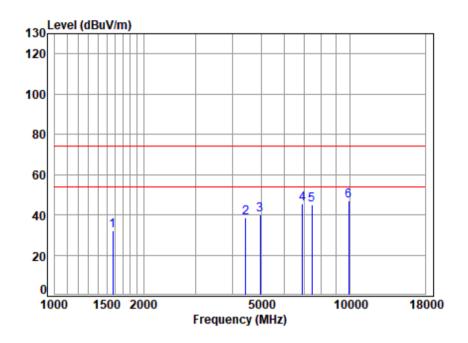


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Test Mode: 09; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 00515AT/00516AT : 2480 TX RSE Mode

Note : BLE 1M

		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	1574.27	4.17	26.90	38.40	39.26	31.93	74.00	-42.07	peak
2	4443.45	7.09	34.28	35.77	32.71	38.31	74.00	-35.69	peak
3	4960.00	7.41	34.56	35.42	33.44	39.99	74.00	-34.01	peak
4	6914.76	8.86	35.66	35.52	36.37	45.37	74.00	-28.63	peak
5	7440.00	9.46	35.96	36.02	35.58	44.98	74.00	-29.02	peak
6	9920.00	12.58	37.30	37.39	34.67	47.16	74.00	-26.84	peak



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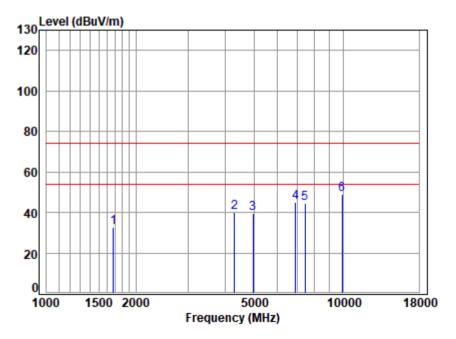


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Test Mode: 09; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL : 00515AT/00516AT Mode : 2480 TX RSE Note : BLE 1M

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1682.48	4.31	26.23	38.41	40.67	32.80	74.00	-41.20	peak
2	4304.40	6.99	34.04	35.87	35.11	40.27	74.00	-33.73	peak
3	4960.00	7.41	34.56	35.42	32.91	39.46	74.00	-34.54	peak
4	6914.76	8.86	35.66	35.52	35.99	44.99	74.00	-29.01	peak
5	7440.00	9.46	35.96	36.02	35.02	44.42	74.00	-29.58	peak
6	9920.00	12.58	37.30	37.39	36.68	49.17	74.00	-24.83	peak



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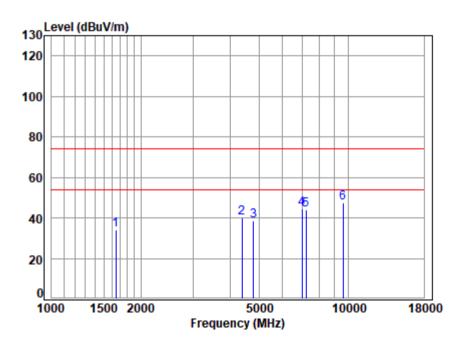


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Report No.: SZCR240200051504

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Test Mode: 10; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 00515AT/00516AT Mode : 2402 TX RSE

Note : BLE 2M

		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	1649 79	4.20	26 24	20 44	42 40	24.26	74.00	20.74	
1	1648.78	4.26	26.31	38.41	42.10	34.26	74.00	-39.74	реак
2	4392.38	7.05	34.74	35.80	33.94	39.93	74.00	-34.07	peak
3	4804.00	7.31	34.32	35.52	32.60	38.71	74.00	-35.29	peak
4	6974.98	8.90	35.75	35.55	35.29	44.39	74.00	-29.61	peak
5	7206.00	9.18	35.70	35.79	35.12	44.21	74.00	-29.79	peak
6	9608.00	12.36	37.42	37.46	35.35	47.67	74.00	-26.33	peak



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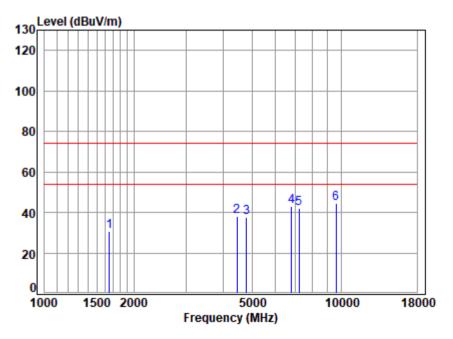


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Test Mode: 10; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL : 00515AT/00516AT Mode : 2402 TX RSE Note : BLE 2M

	Freq	Cable Loss		Preamp Factor		Level			Remark
-	MHz	dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	——dB	
1	1653.55	4.27	26.29	38.41	38.55	30.70	74.00	-43.30	peak
2	4456.32	7.09	34.12	35.76	32.63	38.08	74.00	-35.92	peak
3	4804.00	7.31	34.32	35.52	31.22	37.33	74.00	-36.67	peak
4	6795.88	8.78	35.29	35.44	34.32	42.95	74.00	-31.05	peak
5	7206.00	9.18	35.70	35.79	33.06	42.15	74.00	-31.85	peak
6	9608.00	12.36	37.42	37.46	32.40	44.72	74.00	-29.28	peak



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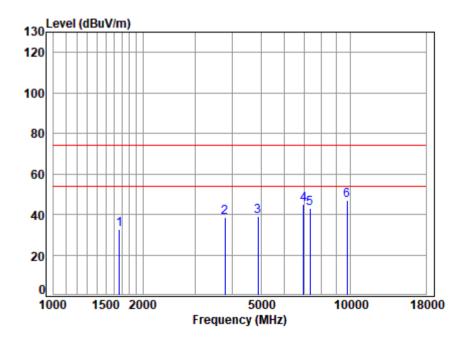


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Report No.: SZCR240200051504

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Test Mode: 10; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL : 00515AT/00516AT Mode : 2440 TX RSE

Note : BLE 2M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	1667.95	4.29	26.26	38.41	40.41	32.55	74.00	-41.45	peak
2	3790.36	6.56	32.50	36.11	35.61	38.56	74.00	-35.44	peak
3	4880.00	7.36	34.62	35.47	32.75	39.26	74.00	-34.74	peak
4	6954.85	8.89	35.79	35.54	35.97	45.11	74.00	-28.89	peak
5	7320.00	9.32	35.70	35.90	34.01	43.13	74.00	-30.87	peak
6	9760.00	12.47	37.38	37.43	34.61	47.03	74.00	-26.97	peak



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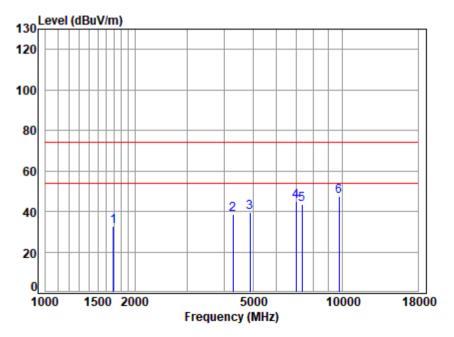


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Test Mode: 10; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber Condition: 3m VERTICAL : 00515AT/00516AT Mode : 2440 TX RSE Note : BLE 2M

		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	1692.23	4.32	26.22	38.41	40.47	32.60	74.00	-41.40	peak
2	4279.59	6.98	33.92	35.89	33.53	38.54	74.00	-35.46	peak
3	4880.00	7.36	34.62	35.47	32.93	39.44	74.00	-34.56	peak
4	6974.98	8.90	35.75	35.55	35.74	44.84	74.00	-29.16	peak
5	7320.00	9.32	35.70	35.90	34.27	43.39	74.00	-30.61	peak
6	9760.00	12.47	37.38	37.43	34.94	47.36	74.00	-26.64	peak



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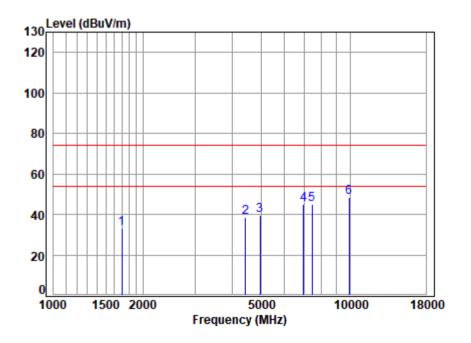


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Test Mode: 10; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 00515AT/00516AT Mode : 2480 TX RSE

Note : BLE 2M

		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	1702.04	4.33	26.22	38.42	40.78	32.91	74.00	-41.09	peak
2	4443.45	7.09	34.28	35.77	32.90	38.50	74.00	-35.50	peak
3	4960.00	7.41	34.56	35.42	33.05	39.60	74.00	-34.40	peak
4	6954.85	8.89	35.79	35.54	35.75	44.89	74.00	-29.11	peak
5	7440.00	9.46	35.96	36.02	35.60	45.00	74.00	-29.00	peak
6	9920.00	12.58	37.30	37.39	35.89	48.38	74.00	-25.62	peak



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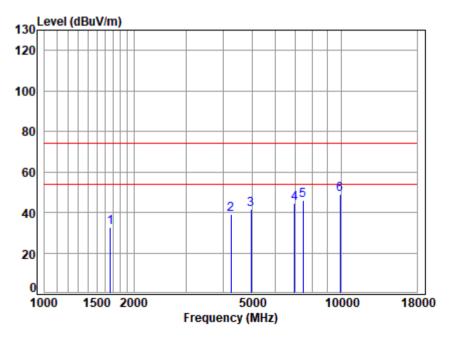


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Test Mode: 10; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL : 00515AT/00516AT Mode : 2480 TX RSE Note : BLE 2M

				_					
		Cable	Ant	Preamp	Read		Limit	0ver	
	Frea	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	4								
				<del></del>					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1667.95	4.29	26.26	38.41	40.69	32.83	74.00	-41.17	peak
2									•
2	4254.92	6.96	33.82	35.90	34.08	38.96	74.00	-35.04	peak
3	4960.00	7.41	34.56	35.42	34.94	41.49	74.00	-32.51	peak
4	6954.85	8.89	35.79	35.54	35.49	44.63	74.00	-29.37	peak
5									•
)	7440.00	9.46	33.90	30.02	30.04	40.04	74.00	-27.90	peak
6	9920.00	12.58	37.30	37.39	36.26	48.75	74.00	-25.25	peak
									•



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#### **Test Setup Photo** 8

Refer to Setup Photo for SZCR2402000515AT

#### **EUT Constructional Details (EUT Photos)** 9

Refer to External and Internal Photos for SZCR2402000515AT



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# 10 Appendix

For left earbud:

1. Duty Cycle

1.1 Ant1

#### 1.1.1 Test Result

	Ant1										
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)				
		2402	0.410	0.625	65.60	1.83	0.00				
1M	SISO	2440	0.410	0.625	65.60	1.83	0.00				
		2480	0.410	0.625	65.60	1.83	0.00				
		2402	0.226	0.625	36.16	4.42	0.00				
2M	SISO	2440	0.226	0.625	36.16	4.42	0.00				
		2480	0.225	0.625	36.00	4.44	0.00				



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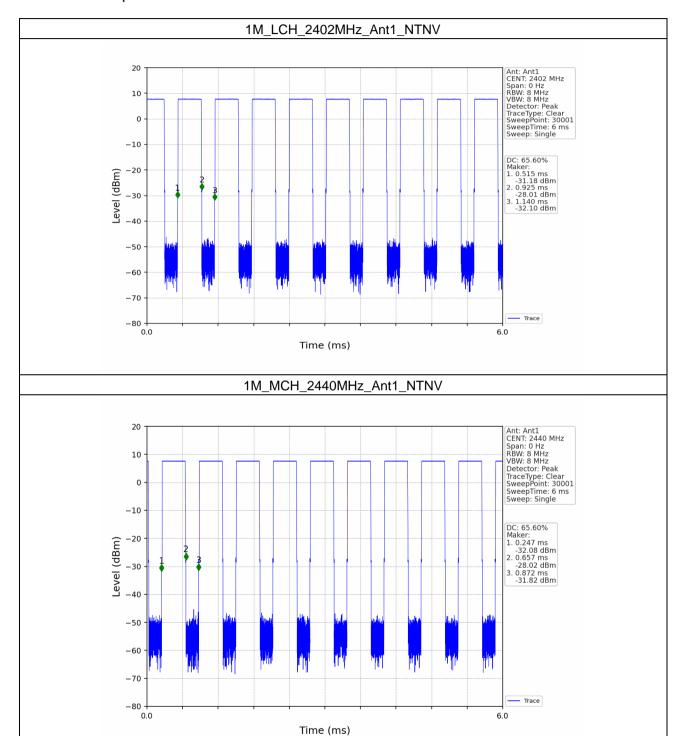


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### 1.1.2 Test Graph





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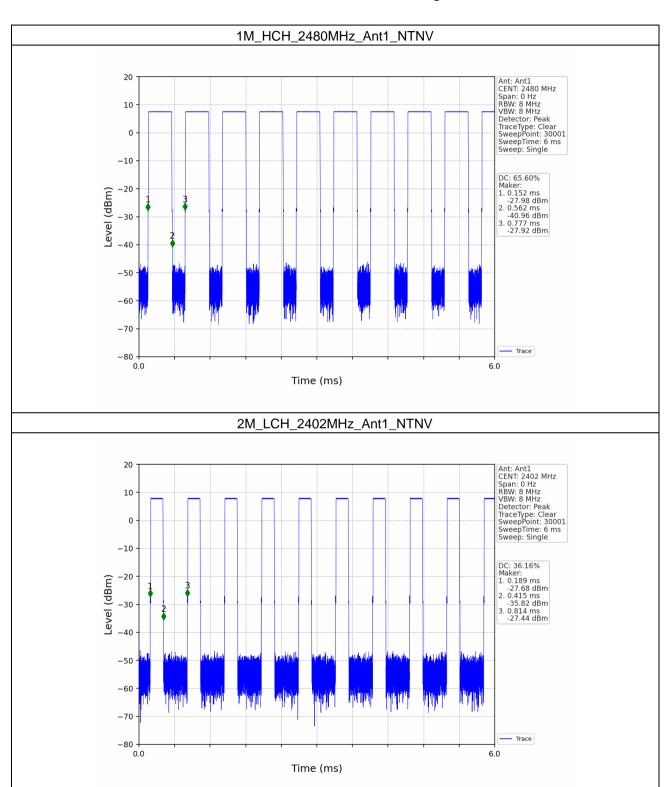
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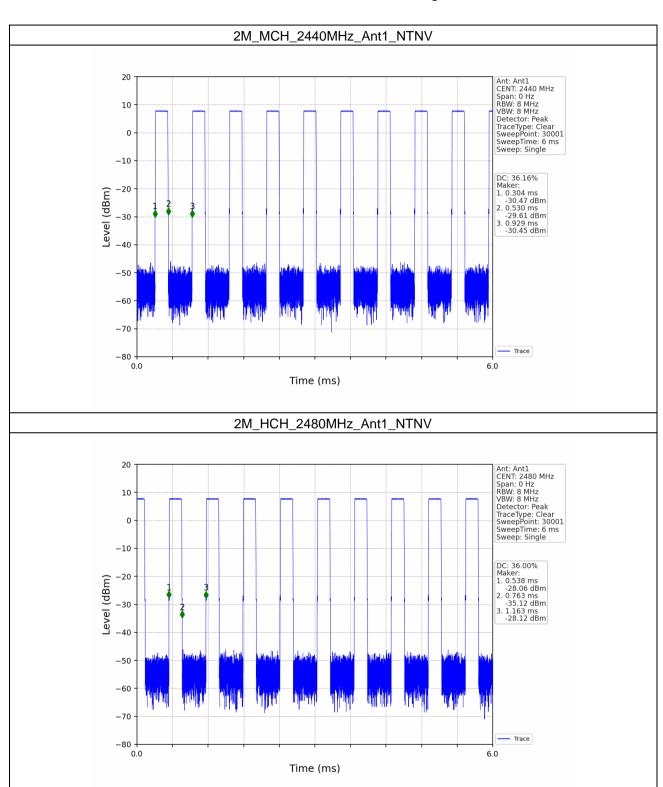
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### 2. Bandwidth

2.1 OBW

### 2.1.1 Test Result

Mode	TX	Frequency	ANT	99% Occupied E	Bandwidth (MHz)	Verdict
iviode	Туре	(MHz)	AIVI	Result	Limit	verdict
		2402	1	1.044	/	Pass
1M	SISO	2440	1	1.046	/	Pass
		2480	1	1.045	/	Pass
		2402	1	2.072	/	Pass
2M	SISO	2440	1	2.072	/	Pass
		2480	1	2.071	/	Pass



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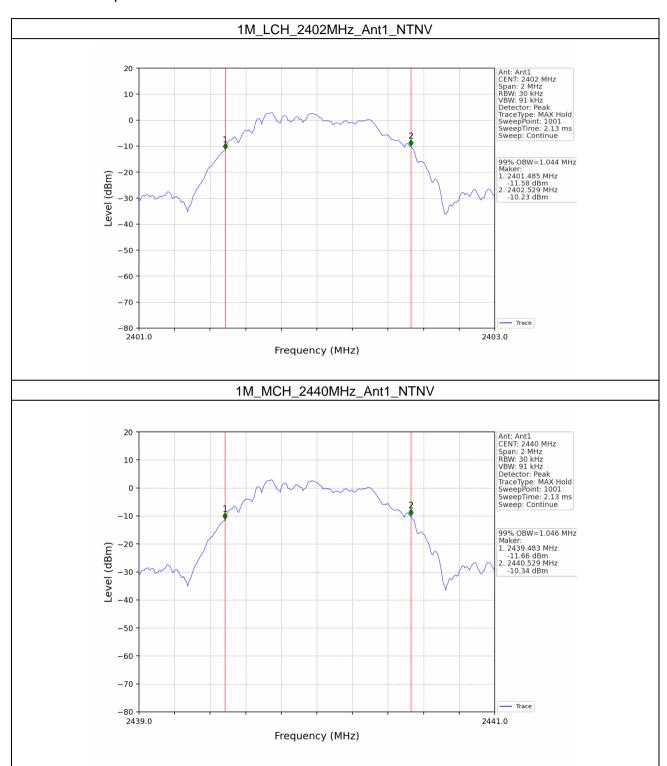


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### 2.1.2 Test Graph





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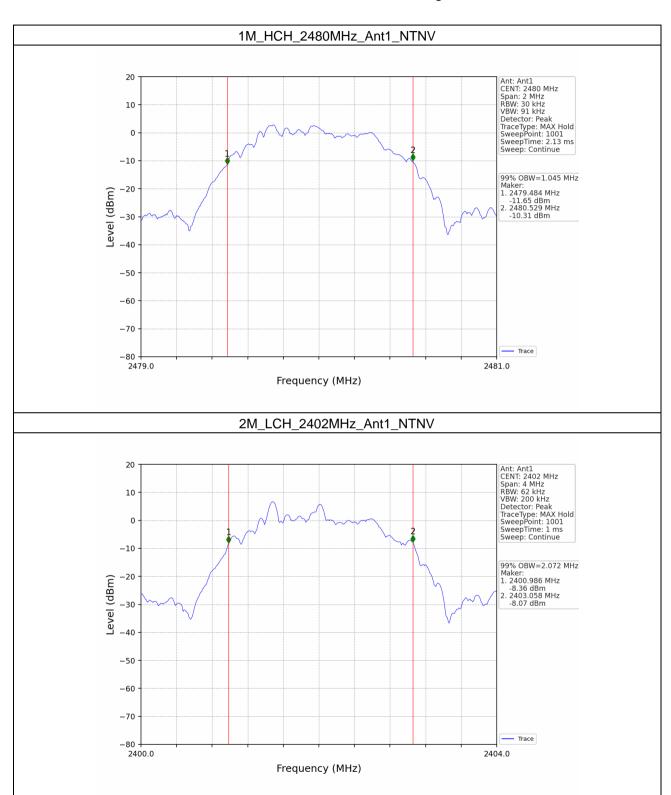
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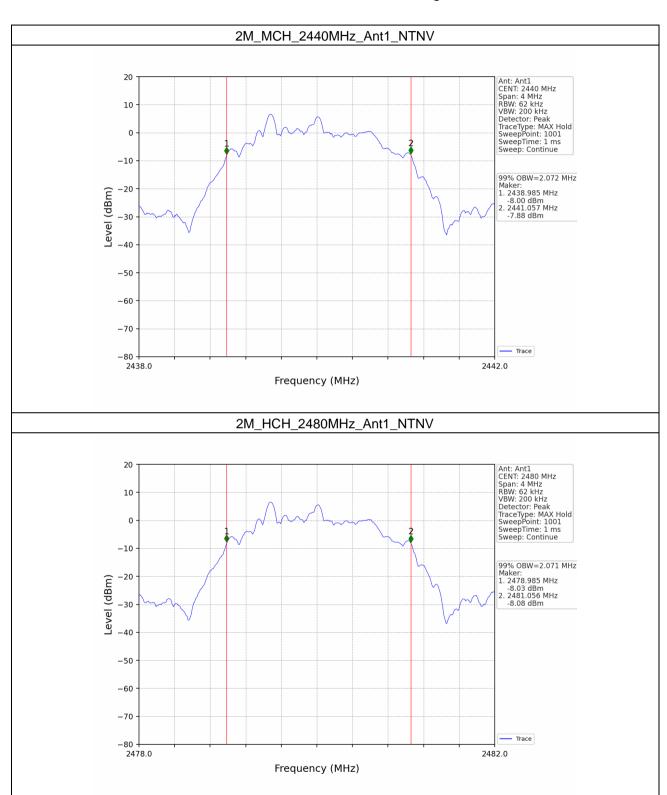
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### 2.2 6dB BW

#### 2.2.1 Test Result

Mode	TX Type	Frequency	ANIT	6dB Bandv	vidth (MHz)	Vordict
Mode		(MHz)	ANT	Result	Limit	Verdict
		2402	1	0.723	>=0.5	Pass
1M	SISO	2440	1	0.718	>=0.5	Pass
		2480	1	0.716	>=0.5	Pass
		2402	1	1.213	>=0.5	Pass
2M	SISO	2440	1	1.258	>=0.5	Pass
		2480	1	1.212	>=0.5	Pass



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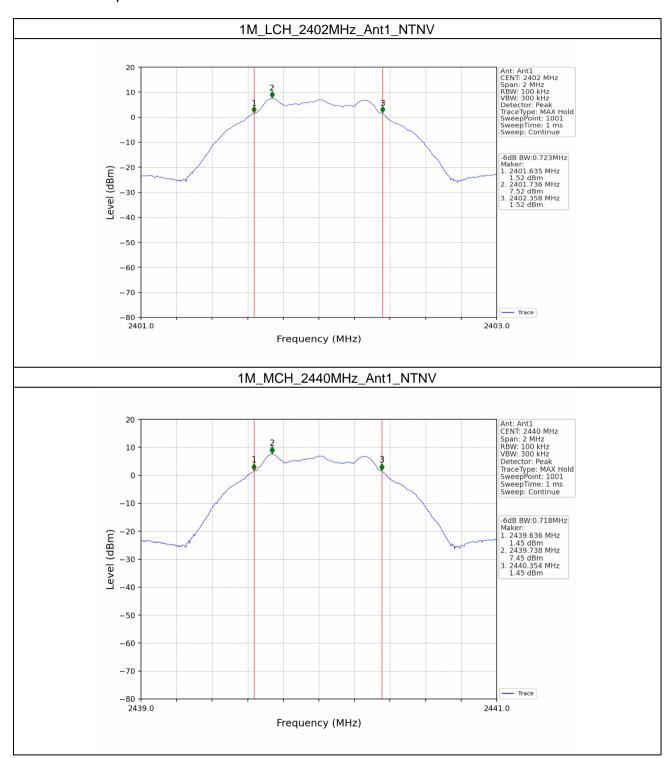


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### 2.2.2 Test Graph





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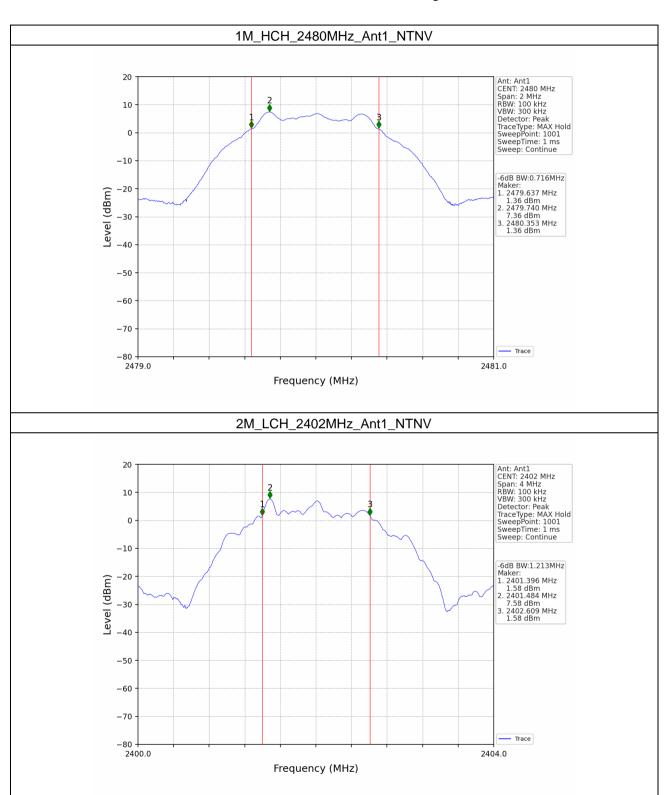
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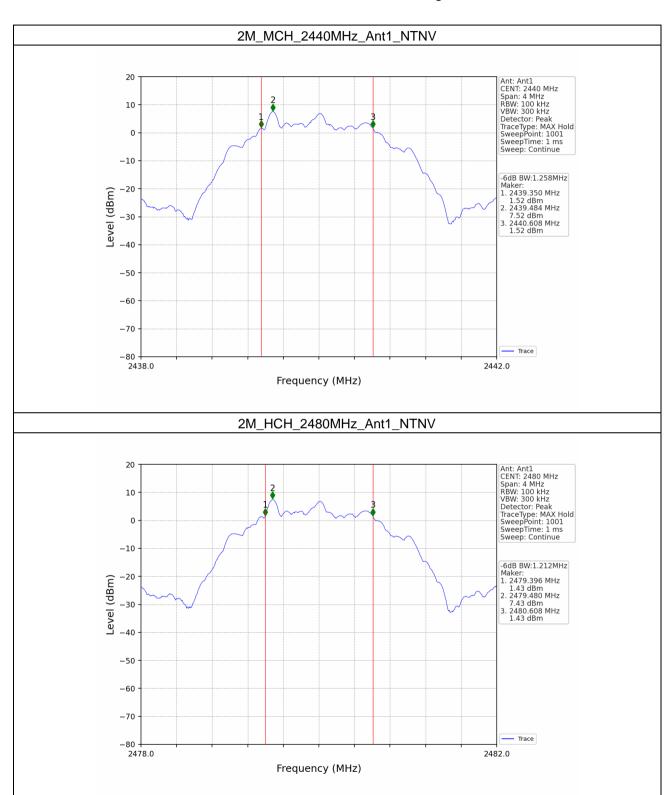
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### 3. Maximum Conducted Output Power

### 3.1 Power

#### 3.1.1 Test Result

Mode	TX	Frequency	Maximum Peak Conduc	ted Output Power (dBm)	\/oudiet
Mode	Туре	(MHz)	ANT1	Limit	Verdict
		2402	7.70	<=30	Pass
1M	SISO	2440	7.62	<=30	Pass
		2480	7.52	<=30	Pass
		2402	7.81	<=30	Pass
2M	SISO	2440	7.74	<=30	Pass
		2480	7.65	<=30	Pass

# 4. Maximum Power Spectral Density

### 4.1 PSD

#### 4.1.1 Test Result

Mada	TX	Frequency	Maximum PS	D (dBm/3kHz)	Verdict
Mode	Type	(MHz)	ANT1	Limit	verdict
		2402	-7.72	<=8	Pass
1M	SISO	2440	-7.80	<=8	Pass
		2480	-7.95	<=8	Pass
		2402	-11.24	<=8	Pass
2M	SISO	2440	-11.27	<=8	Pass
		2480	-11.35	<=8	Pass



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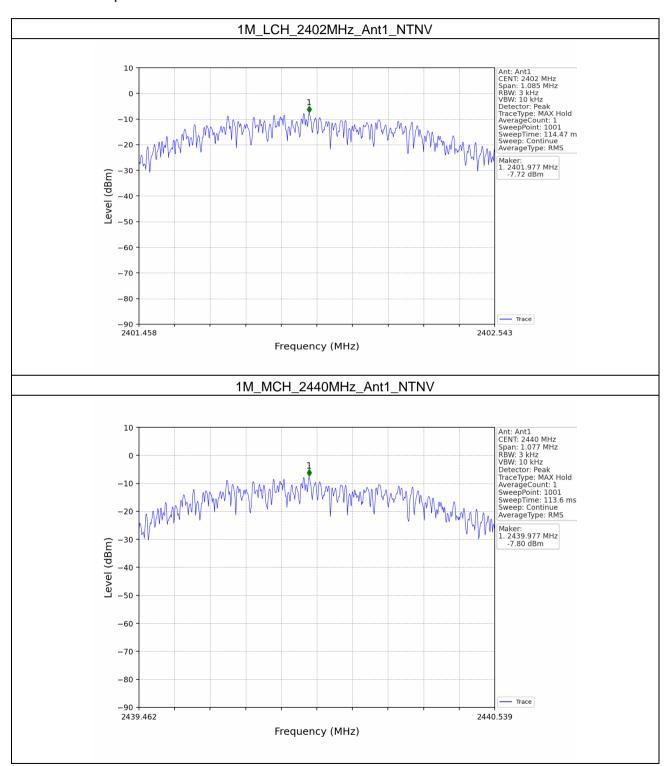


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### 4.1.2 Test Graph





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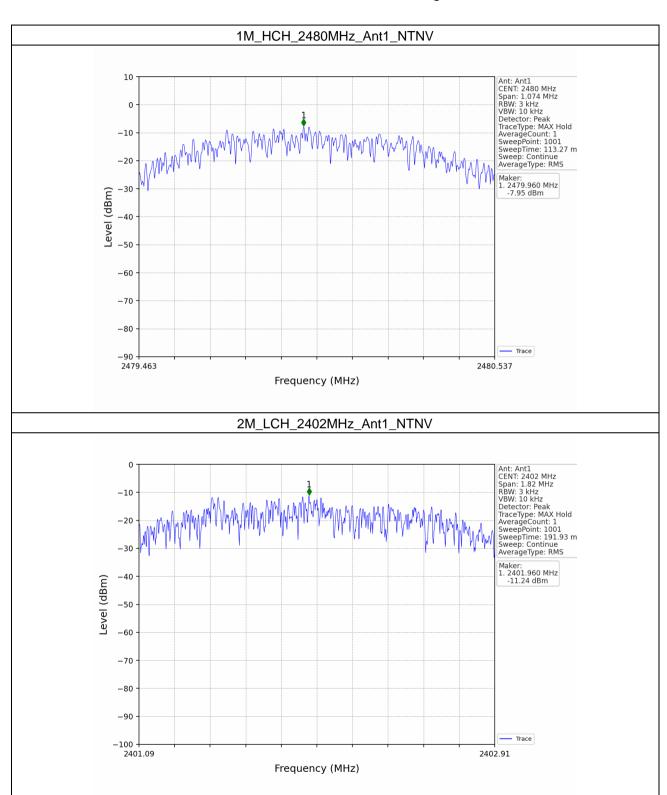
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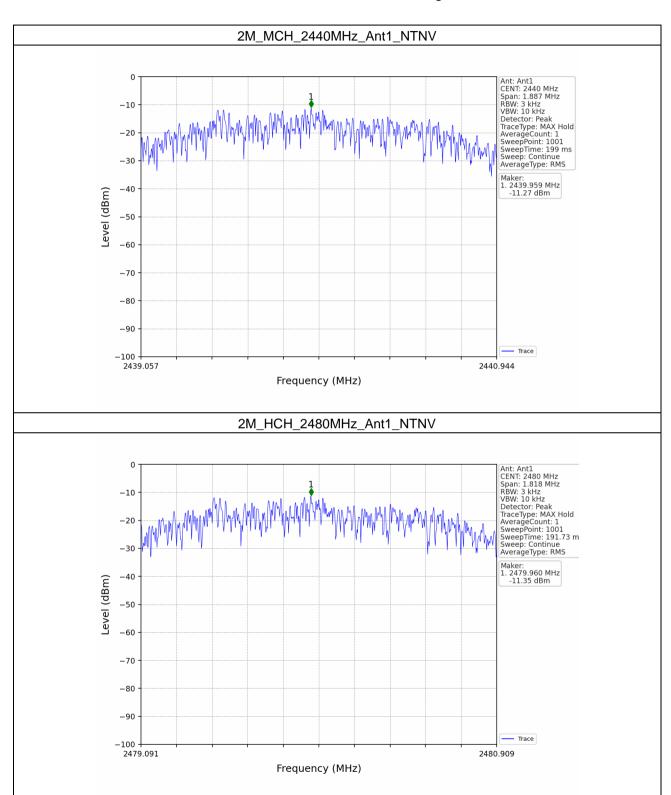
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### 5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

### 5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	7.52
		2440	1	7.45
		2480	1	7.36
2M	SISO	2402	1	7.56
		2440	1	7.49
		2480	1	7.40



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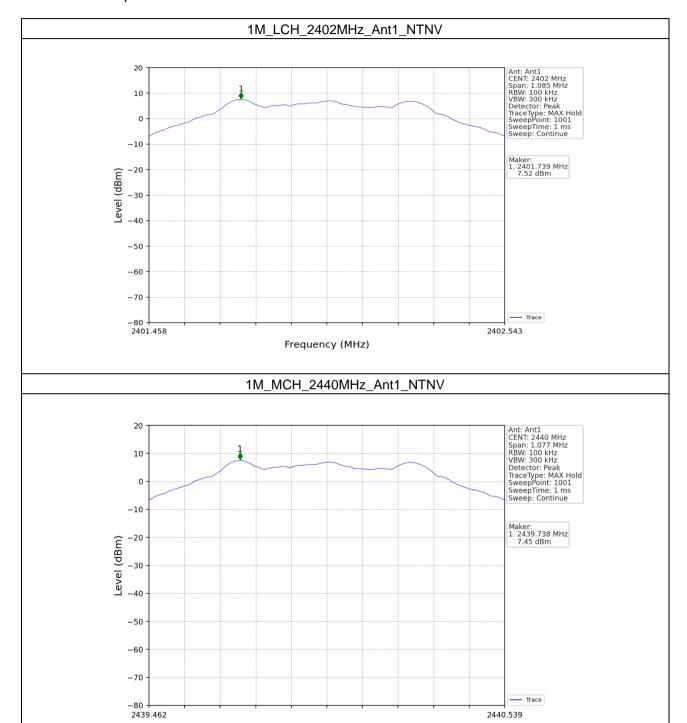


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### 5.1.2 Test Graph





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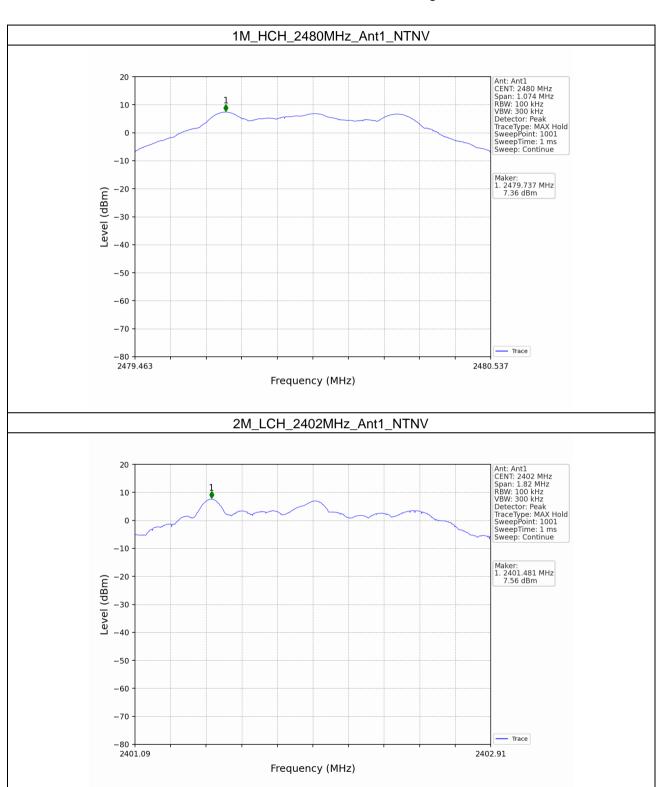
Frequency (MHz)



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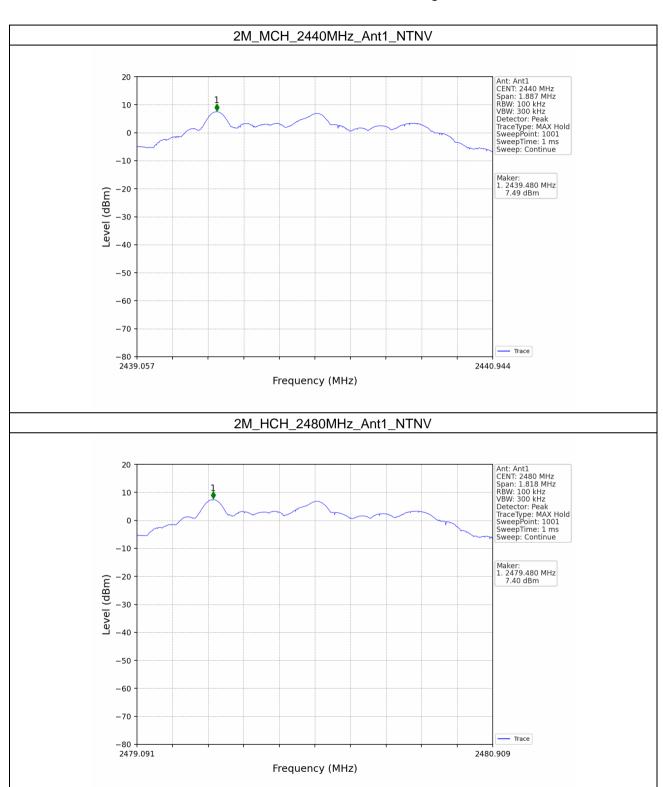
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### 5.2 CSE

#### 5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	7.52	-12.48	Pass
		2440	1	7.52	-12.48	Pass
		2480	1	7.52	-12.48	Pass
2M	SISO	2402	1	7.56	-12.44	Pass
		2440	1	7.56	-12.44	Pass
		2480	1	7.56	-12.44	Pass



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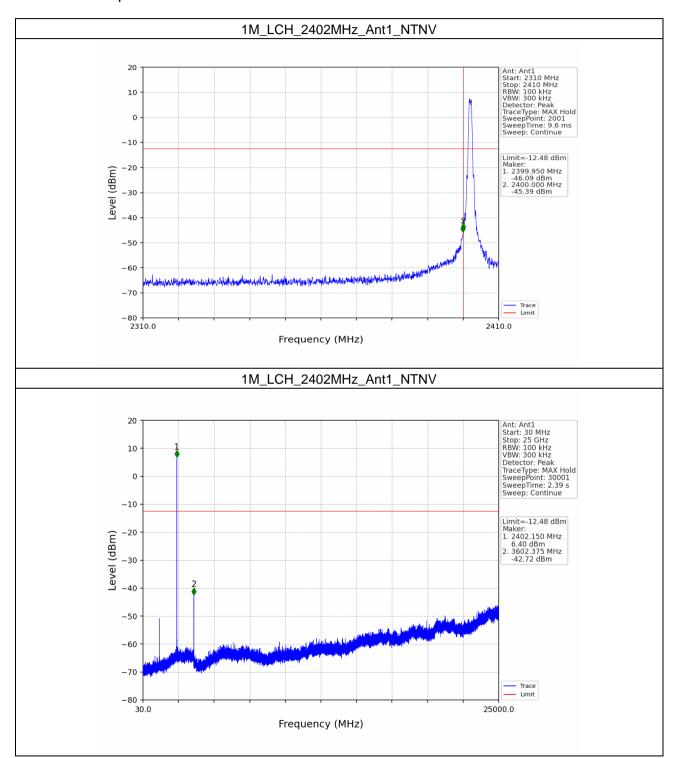


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### 5.2.2 Test Graph





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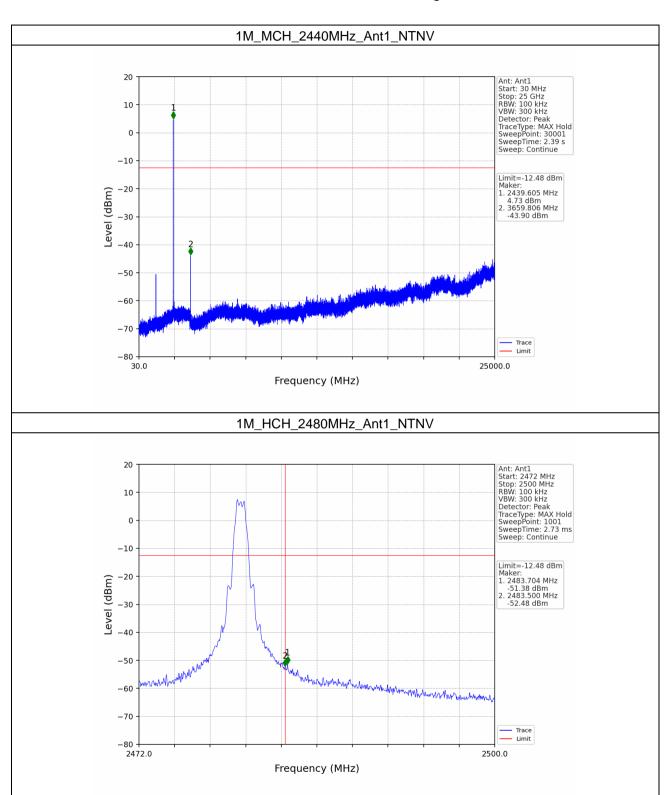
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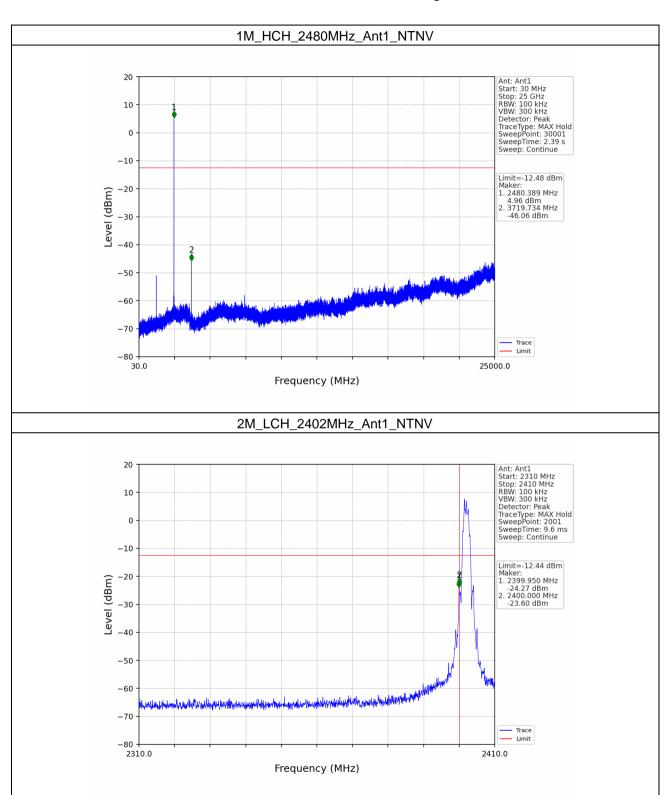
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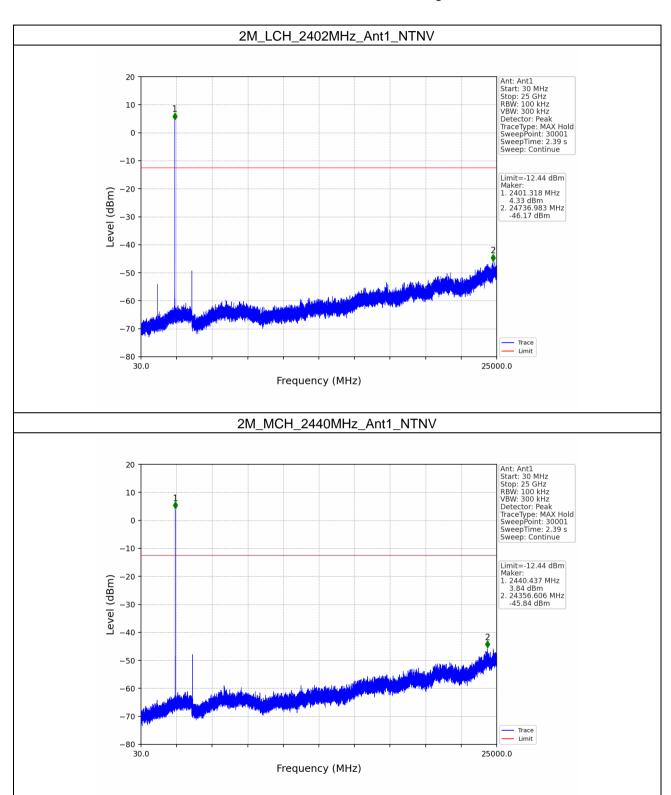
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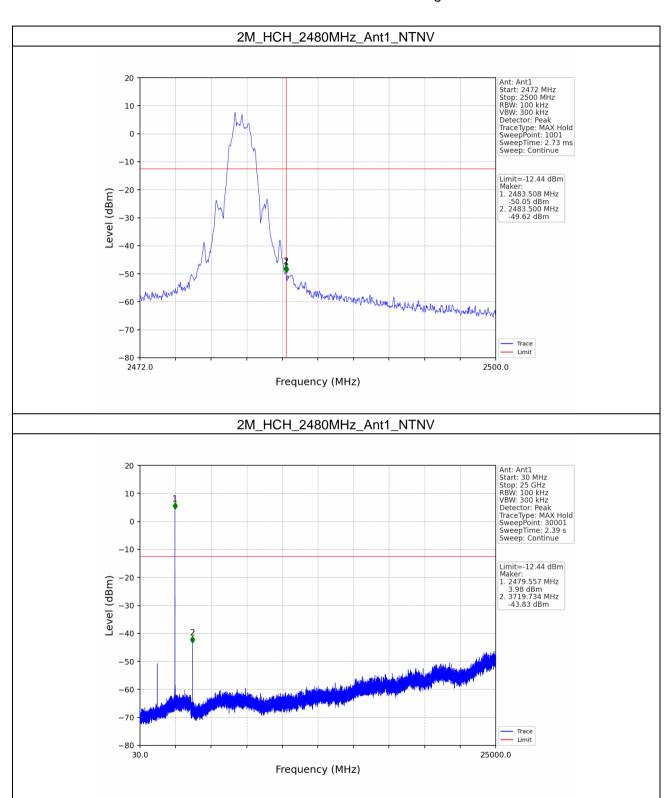
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For right earbud:

1. Duty Cycle

1.1 Ant1

### 1.1.1 Test Result

Ant1								
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)	
		2402	0.409	0.625	65.44	1.84	0.01	
1M	SISO	2440	0.410	0.625	65.60	1.83	0.00	
		2480	0.409	0.625	65.44	1.84	0.03	
		2402	0.226	0.625	36.16	4.42	0.00	
2M	SISO	2440	0.226	0.625	36.16	4.42	0.00	
		2480	0.226	0.625	36.16	4.42	0.00	



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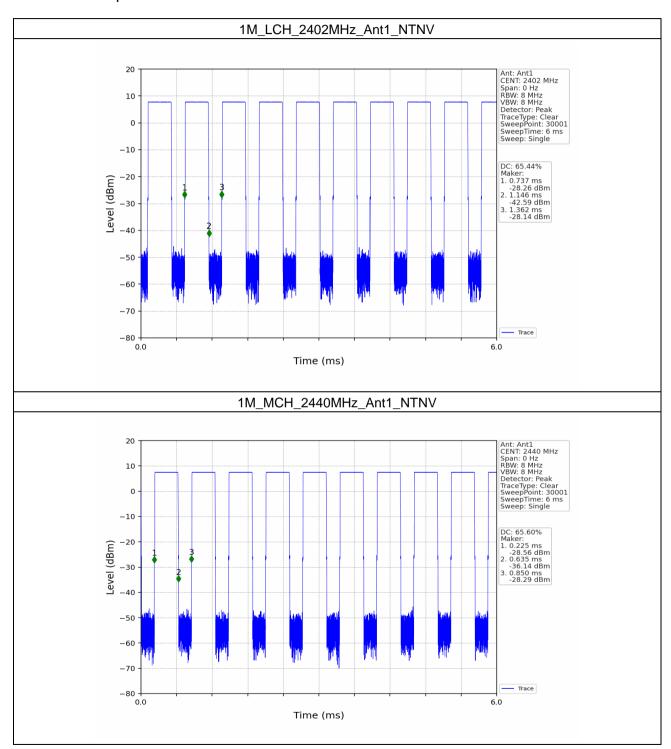


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### 1.1.2 Test Graph





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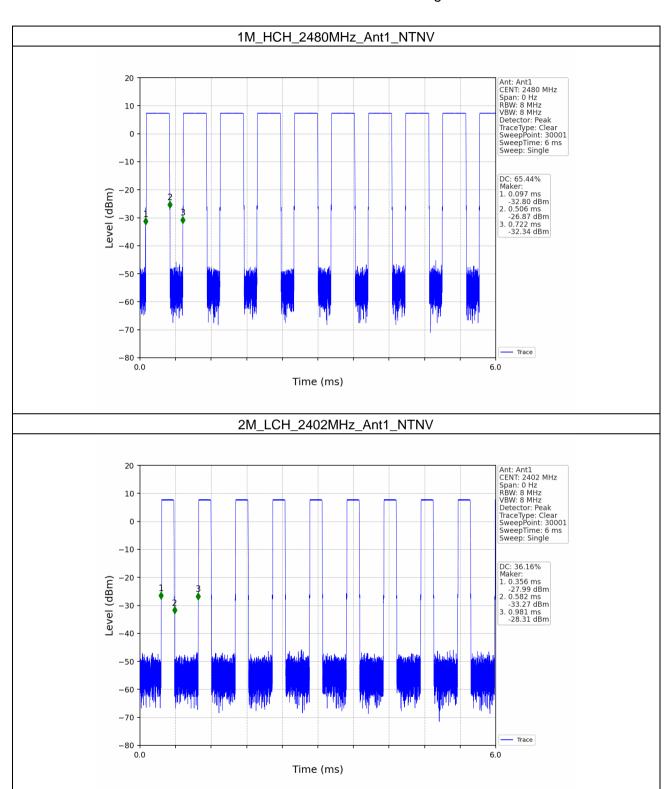
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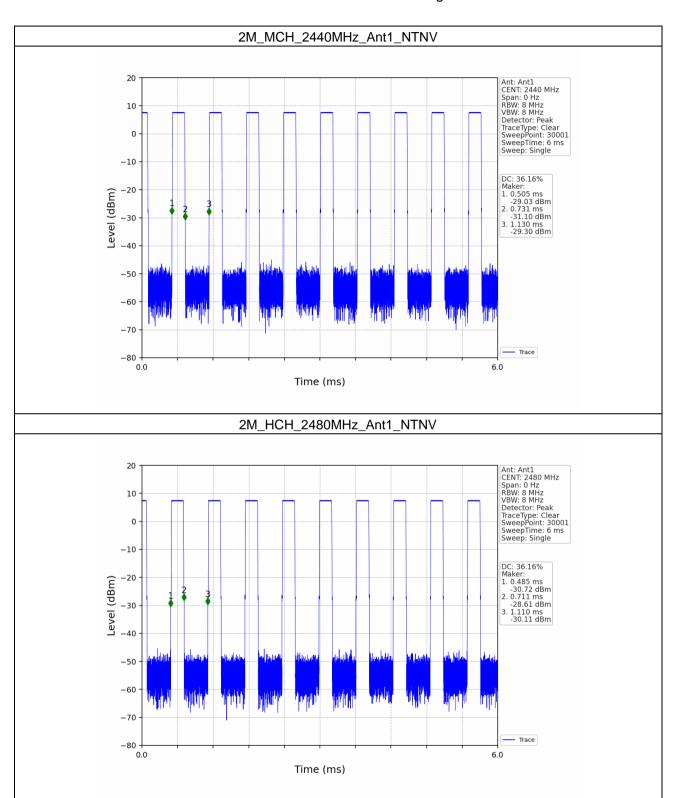
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#### 2. Bandwidth

2.1 OBW

#### 2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Vardiet
				Result	Limit	Verdict
1M	SISO	2402	1	1.045	/	Pass
		2440	1	1.045	/	Pass
		2480	1	1.044	/	Pass
2M	SISO	2402	1	2.072	/	Pass
		2440	1	2.072	/	Pass
		2480	1	2.069	/	Pass



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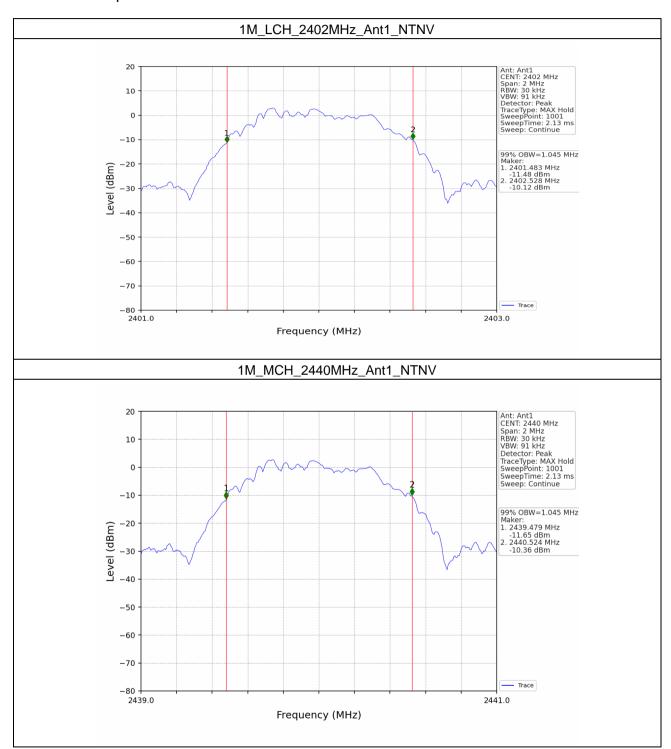


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#### 2.1.2 Test Graph





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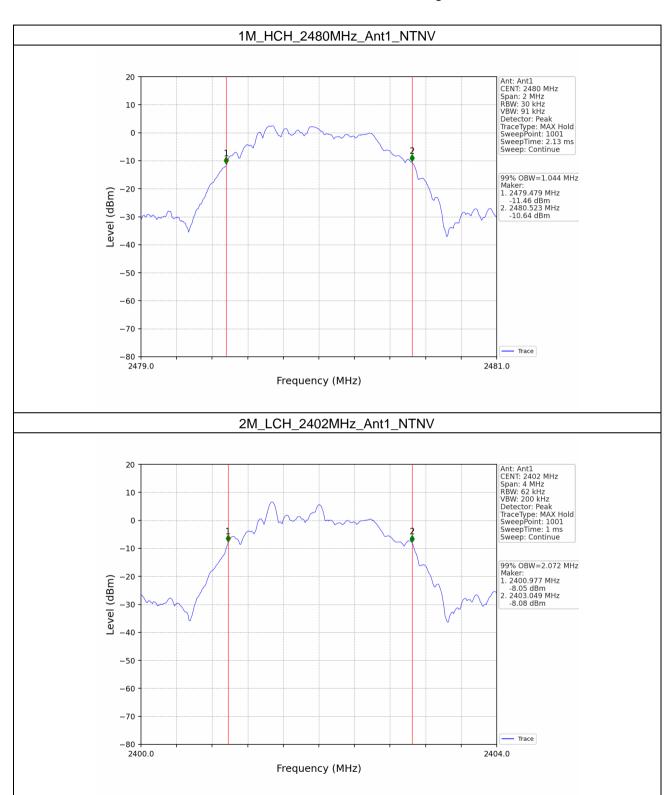
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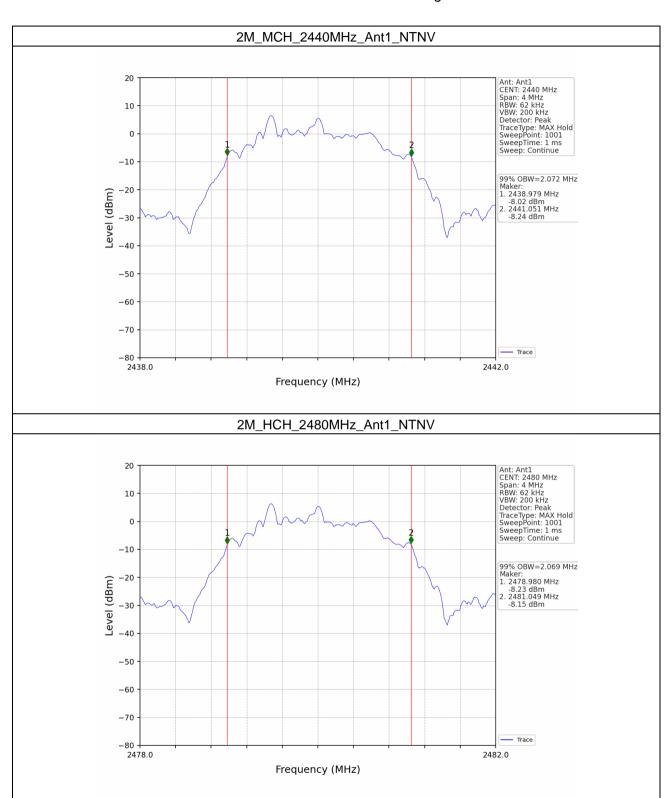
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#### 2.2 6dB BW

#### 2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Mondiet
				Result	Limit	Verdict
1M	SISO	2402	1	0.719	>=0.5	Pass
		2440	1	0.717	>=0.5	Pass
		2480	1	0.708	>=0.5	Pass
2M	SISO	2402	1	1.212	>=0.5	Pass
		2440	1	1.210	>=0.5	Pass
		2480	1	1.211	>=0.5	Pass



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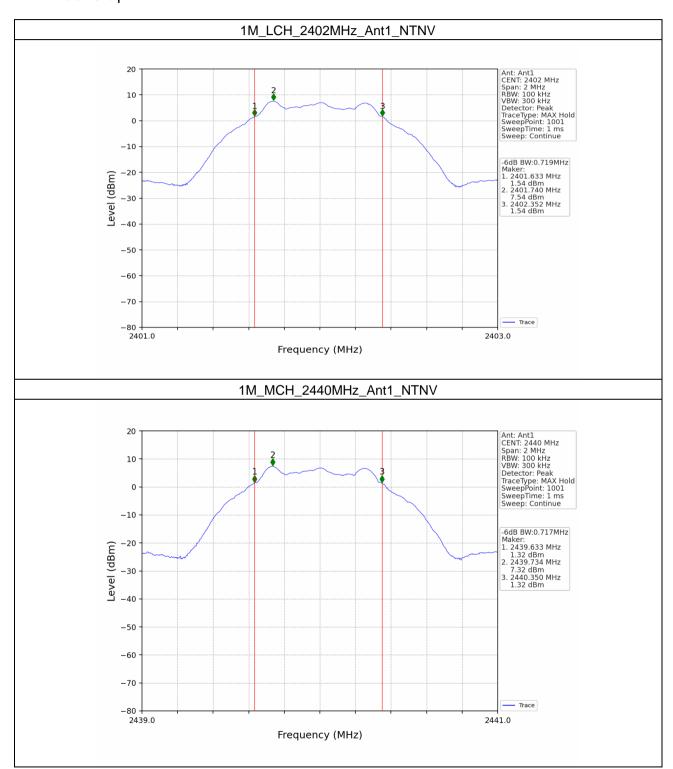


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#### 2.2.2 Test Graph





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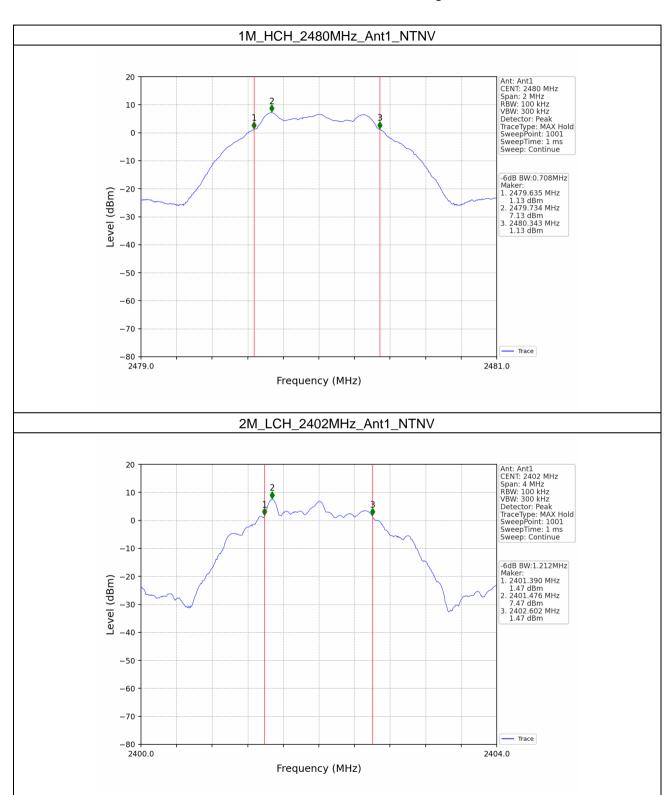
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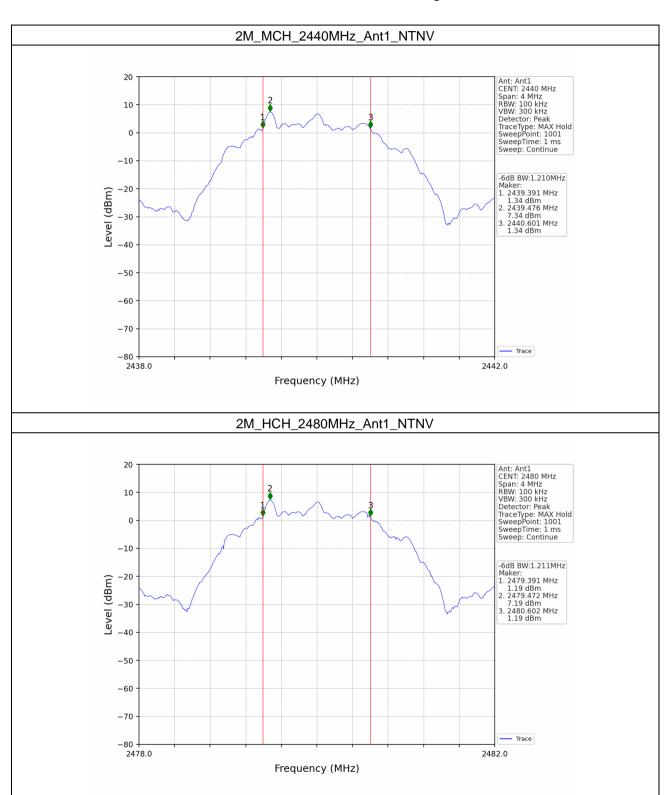
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#### 3. Maximum Conducted Output Power

#### 3.1 Power

#### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conduc	Mondiet	
			ANT1	Limit	Verdict
1M	SISO	2402	7.68	<=30	Pass
		2440	7.70	<=30	Pass
		2480	7.29	<=30	Pass
2M	SISO	2402	7.70	<=30	Pass
		2440	7.57	<=30	Pass
		2480	7.40	<=30	Pass

## 4. Maximum Power Spectral Density

#### 4.1 PSD

#### 4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PS	Vandiat	
			ANT1	Limit	Verdict
	SISO	2402	-7.80	<=8	Pass
1M		2440	-7.99	<=8	Pass
		2480	-8.14	<=8	Pass
	SISO	2402	-11.36	<=8	Pass
2M		2440	-11.59	<=8	Pass
		2480	-11.67	<=8	Pass



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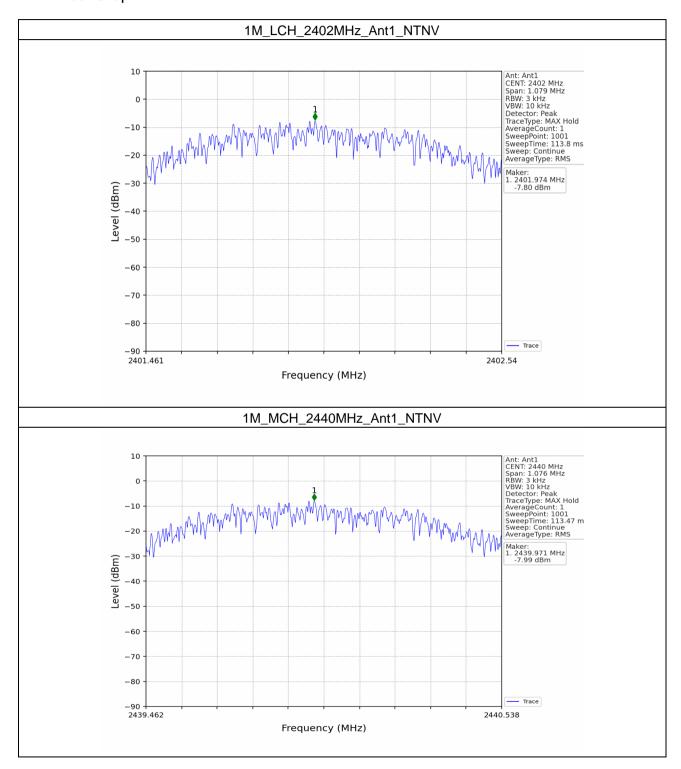


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#### 4.1.2 Test Graph





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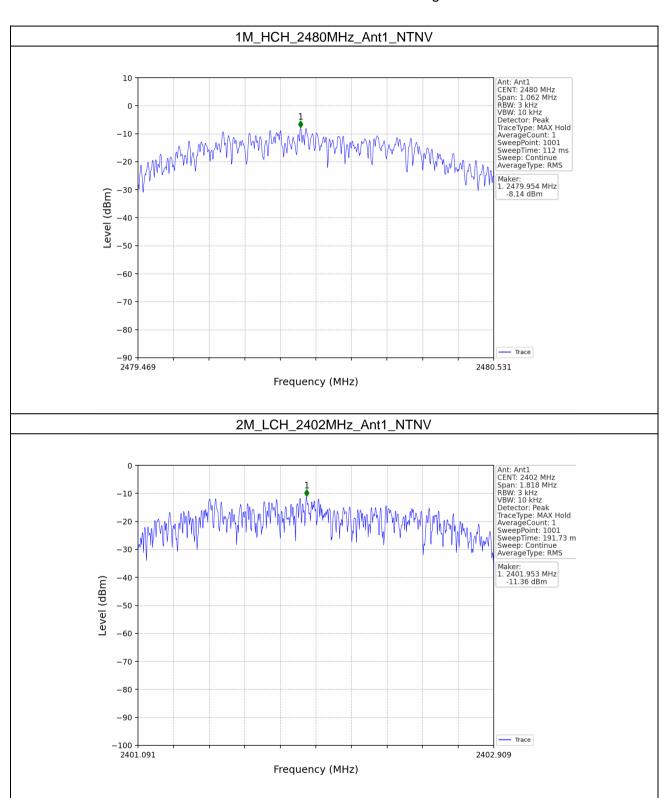
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