

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241000373003

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TEST REPORT

Application No.: SZCR2410003730AT

Applicant: Skullcandy Inc.

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

Manufacturer: Skullcandy Inc.

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

Equipment Under Test (EUT):

EUT Name: METHOD 360 ANC/METHOD 360 ANC X

Model No.:

Trade Mark:

Skullcandy

FCC ID: Y22-S2MTW

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

2024-10-10 Date of Receipt:

2024-10-16 to 2024-11-21 **Date of Test:**

Date of Issue: 2024-12-08

Pass* **Test Result:**

Keny Xu **EMC Laboratory Manager**

Ceny. Ku



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



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	Revision Record							
Version	Chapter	Date	Modifier	Remark				
01		2024-12-08		Original				

Authorized for issue by:		
	Charle Doi	
	Charlie Dai/Project Engineer	-
	Exic Fu	
	Eric Fu/Reviewer	-



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Test Summary

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

Radio Spectrum Matter Part					
Item	Standard	Method	Requirement	Result	
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	
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass	
Minimum 6dB Bandwidth		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		ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass	



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General Information

Details of E.U.T. 4.1

Power supply:	Left earbuds: Li-Ion Polymer Battery 3.7V 57mAh(Charge by travel case) Right earbuds: Li-Ion Polymer Battery 3.7V 57mAh(Charge by travel case) travel case with backup battery: Li-Ion Polymer Battery 3.85V 500mAh (Charged by Type-C port)
Cable(s):	USB-A to C cable 11cm unshielded
Bluetooth Version:	V5.3 Dual mode
Operation Frequency:	BLE 1Mbps: 2402MHz to 2480MHz; BLE 2Mbps: 2404MHz to 2478MHz (Excluding 2426MHz)
Modulation Type:	GFSK
Data Rate:	1Mbps, 2Mbps
Channel Spacing:	2MHz
Number of Channels:	BLE 1Mbps: 40; BLE 2Mbps: 37
Antenna Type:	FPC Antenna
Antenna Gain:	Left earbuds: -1.44dBi; Right earbuds: -1.09dBi
Cable Loss (for RF conducted test):	0.7dB

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

Description	Manufacturer	Model No.	Serial No.			
		-				
The EUT has been tested as an independent unit.						

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Radiated Emissions which fall in the restricted bands	± 6.0dB (Below 1GHz);± 4.6dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	\pm 6.0dB for 3m; \pm 5.0dB for 10m
Radiated Spurious Emissions Above 1GHz	± 4.6dB (1-18GHz);± 4.8dB (18- 40GHz)
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



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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**

Radiated Emissions which fall in the restricted bands						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M- 048	2024-01-30	2025-01-29	
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M- 050	2024-01-30	2025-01-29	
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M- 055	2023-12-21	2025-12-20	
RSE Test Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C- 063	2022-01-05	2025-01-04	
Humidity and Temperature Indicator	deli	8838	SEM002-46	2024-07-24	2025-07-23	

Radiated Spurious Emissions Below 1GHz						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2024-03-26	2025-03-25	
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2024-08-14	2025-08-13	
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2023-09-23	2025-09-22	
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2024-03-27	2025-03-26	
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	2024-07-06	2025-07-05	



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Radiated Spurious Emissions Above 1GHz						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M- 048	2024-01-30	2025-01-29	
Low Noise Amplifier 1G- 18GHz	Tonscend	TAP01018050	SZ-WRG-M- 051	2024-01-30	2025-01-29	
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M- 052	2024-01-30	2025-01-29	
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M- 055	2023-12-21	2025-12-20	
SHF-EHF Horn 15GHz- 40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M- 056	2023-12-25	2025-12-24	
RSE Test Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C- 063	2022-01-05	2025-01-04	
Humidity and Temperature Indicator	deli	8838	SEM002-46	2024-07-24	2025-07-23	

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2024-03-27	2025-03-26
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2024-03-14	2025-03-13
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2024-03-27	2025-03-26

General used equipmen	t				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17



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Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

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

6.1.2 Conclusion

15.203 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.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is Left earbuds: -1.44dBi; Right earbuds: -1.09dBi.

Antenna location: Refer to internal photos



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Radio Spectrum Matter Test Results 7

7.1 Radiated Emissions which fall in the restricted bands

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

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

Measurement Distance: 3m

Limit:

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

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

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C Humidity: 58.5 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

7.11.2 1.000 10		
Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps_Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	03	TX mode(2Mbps_Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	06	TX mode(1Mbps_Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	07	TX mode(2Mbps_Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation



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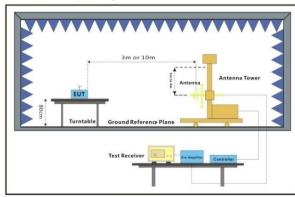


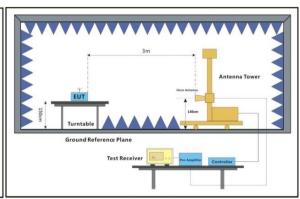
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7.1.3 Test Setup Diagram





Above 1GHz 30MHz-1GHz



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7.1.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.
- i. 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.
- Remark 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

Remark 4:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥1/T (Duty cycle<98%) or 10Hz (Duty cycle≥98%) for Average detection (AV) at frequency above 1GHz.



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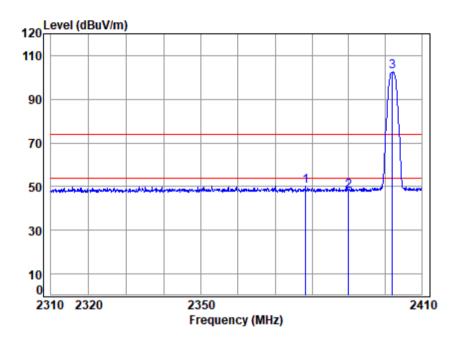


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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Condition: 3m HORIZONTAL Job No : 03730AT/03731AT Mode : 2402 Band edge

: BLE 1M L

	Freq			Preamp Factor					
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
рр	2378.243 2390.000 2402.000	6.82	27.46	31.54	45.20	47.94	74.00	-26.06	peak



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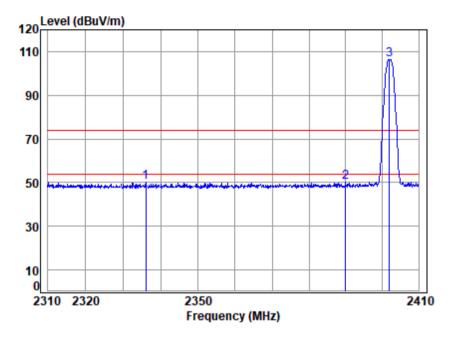


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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL

Job No : 03730AT/03731AT Mode : 2402 Band edge

· 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		
	2335.990	6.80	27.27	31.53	47.45	49.99	74.00	-24.01	peak	
	2390.000	6.82	27.46	31.54	47.54	50.28	74.00	-23.72	peak	
on	2402.000	6.84	27.50	31.54	103.62	106.42	74.00	32,42	peak	



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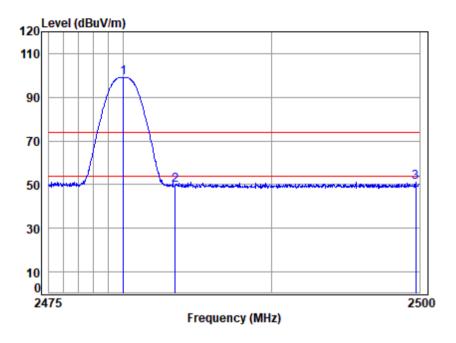


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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



Condition: 3m HORIZONTAL Job No : 03730AT/03731AT Mode : 2480 Band edge

RIF 1M

	: DLE			Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
pp	2480.000	7.37	27.78	31.55	95.36	98.96	74.00	24.96	peak
	2483.500	7.40	27.80	31.55	45.87	49.52	74.00	-24.48	peak
	2499.749	7.51	27.90	31.55	47.40	51.26	74.00	-22.74	peak



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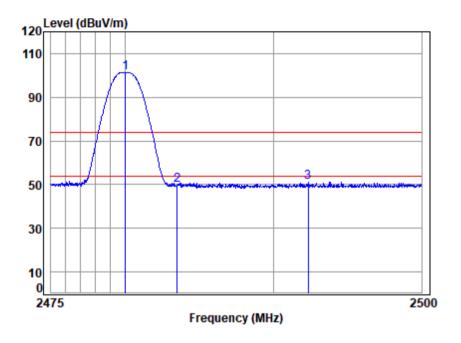


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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



Condition: 3m VERTICAL

Job No : 03730AT/03731AT Mode : 2480 Band edge

: BLE 1M

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Line Limit Remark Freq Level Level MHz dB dB/m dBuV dBuV/m dBuV/m 1 pp 2480.000 7.37 27.78 31.55 97.73 101.33 74.00 27.33 peak 2483.500 7.40 27.80 31.55 46.28 49.93 74.00 -24.07 peak 2492.323 7.46 27.85 31.55 47.24 51.00 74.00 -23.00 peak



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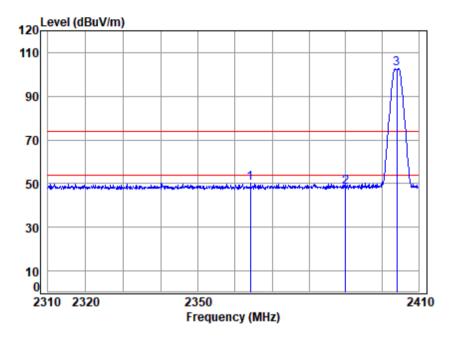


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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Condition: 3m HORIZONTAL Job No : 03730AT/03731AT Mode : 2404 Band edge

: BLE 2M

		211 L							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2364.175	6.81	27.36	31.54	47.60	50.23	74.00	-23.77	peak
	2390.000	6.82	27.46	31.54	45.57	48.31	74.00	-25.69	peak
ממ	2404.000	6.86	27.51	31.54	99.83	102,66	74.00	28.66	peak



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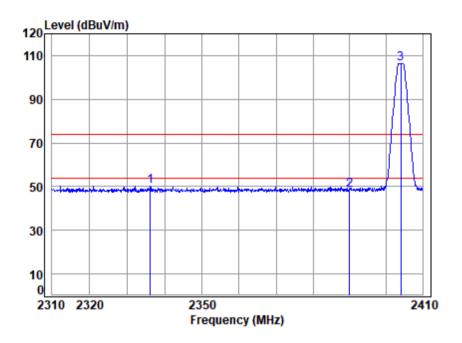


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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL

Job No : 03730AT/03731AT Mode : 2404 Band edge

: BLE 2M L

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	2336.188	6.80	27.27	31.53	47.75	50.29	74.00	-23.71	peak	
	2390.000	6.82	27.46	31.54	45.49	48.23	74.00	-25.77	peak	
on	2404.000	6.86	27.51	31.54	103.61	106.44	74.00	32.44	peak	



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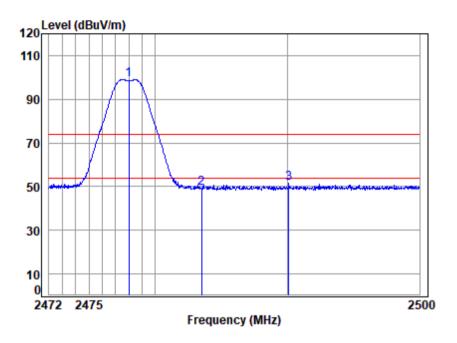


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Test Mode: 03; Polarity: Horizontal; Modulation: GFSK; Channel: High



Condition: 3m HORIZONTAL Job No : 03730AT/03731AT Mode : 2478 Band edge

RIF 2M

	: DLC			Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
pp	2478.000	7.36	27.77	31.55	95.51	99.09	74.00	25.09	peak
	2483.500	7.40	27.80	31.55	45.83	49.48	74.00	-24.52	peak
	2490.080	7.44	27.84	31.55	47.64	51.37	74.00	-22.63	peak



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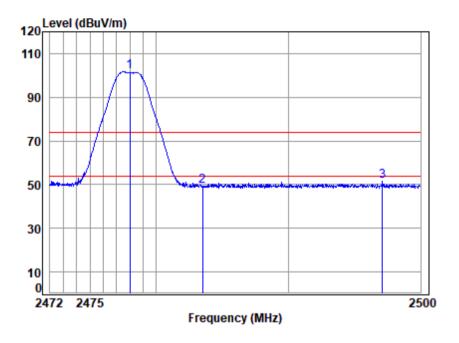


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Test Mode: 03; Polarity: Vertical; Modulation: GFSK; Channel: High



Condition: 3m VERTICAL

Job No : 03730AT/03731AT Mode : 2478 Band edge

: BLE 2M

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Line Limit Remark Freq Level Level MHz dB dB/m dB dBuV dBuV/m dBuV/m 1 pp 2478.000 7.36 27.77 31.55 98.06 101.64 74.00 27.64 peak 2483.500 7.40 27.80 31.55 45.52 49.17 74.00 -24.83 peak 2497,101 7.49 27.88 31.55 47.56 51.38 74.00 -22.62 peak



2

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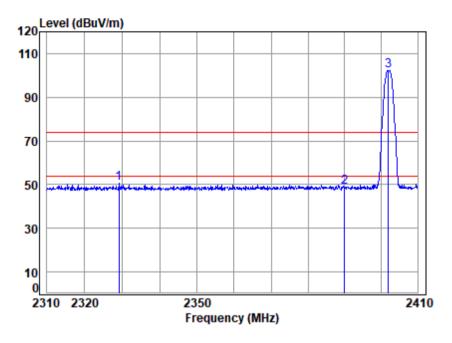


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Test Mode: 06; Polarity: Horizontal; Modulation: GFSK; Channel:Low



Condition: 3m HORIZONTAL Job No : 03730AT/03731AT Mode : 2402 Band edge

: BLE 1M R

	Freq			Preamp Factor					Remark
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2	2329.070 2390.000 2402.000	6.82	27.46	31.53 31.54 31.54	46.15	48.89	74.00	-25.11	peak



2

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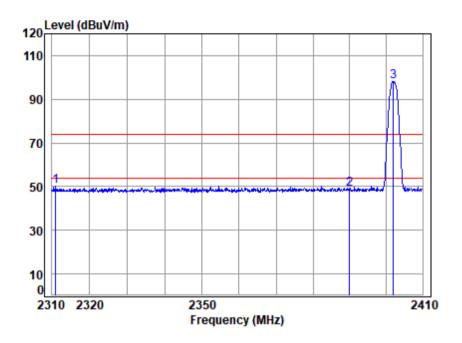


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Test Mode: 06; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL

Job No : 03730AT/03731AT Mode : 2402 Band edge

: BLE 1M R

		±111 11								
		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		
	2310.979	6.79	27.22	31.53	47.78	50.26	74.00	-23.74	peak	
	2390.000	6.82	27.46	31.54	46.07	48.81	74.00	-25.19	peak	
nn	2402.000	6.84	27.50	31.54	95.11	97.91	74.00	23.91	neak	



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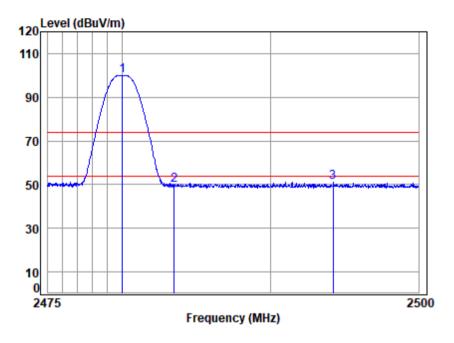


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Test Mode: 06; Polarity: Horizontal; Modulation: GFSK; Channel: High



Condition: 3m HORIZONTAL Job No : 03730AT/03731AT Mode : 2480 Band edge

· RIF 1M R

	. DLL	TITL IX								
		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		
pp	2480.000	7.37	27.78	31.55	96.36	99.96	74.00	25.96	peak	
•	2483.500								•	
	2494.228	7.47	27.87	31.55	47.33	51.12	74.00	-22.88	peak	



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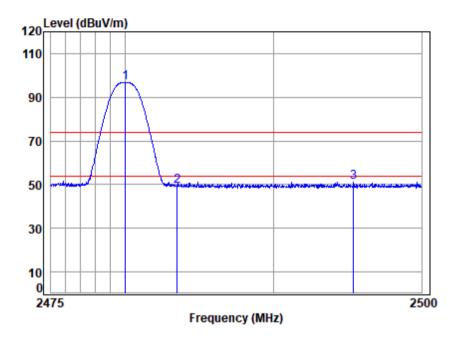


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Test Mode: 06; Polarity: Vertical; Modulation:GFSK; Channel:High



Condition: 3m VERTICAL

Job No : 03730AT/03731AT Mode : 2480 Band edge

: BLE 1M R

		T11 11								
		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 pp	2480.000	7.37	27.78	31.55	93.02	96.62	74.00	22.62	peak	
2	2483.500	7.40	27.80	31.55	45.58	49.23	74.00	-24.77	peak	
3	2495,406	7.48	27.87	31.55	47.50	51.30	74.00	-22.70	peak	



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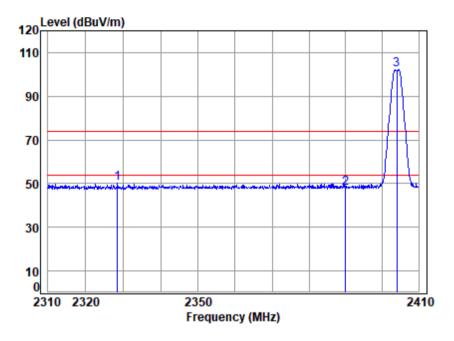


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Test Mode: 07; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Condition: 3m HORIZONTAL Job No : 03730AT/03731AT Mode : 2404 Band edge

· RIF 2M R

	. DLL	211 11							
		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	
	2328.478	6.79	27.26	31.53	47.55	50.07	74.00	-23.93	peak
	2390.000	6.82	27.46	31.54	45.31	48.05	74.00	-25.95	peak
pp	2404.000	6.86	27.51	31.54	99.25	102.08	74.00	28.08	peak



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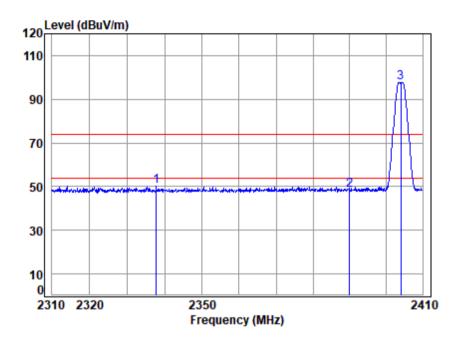


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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL

Job No : 03730AT/03731AT Mode : 2404 Band edge

· RIF 2M R

	. DLL	ZPLIN							
		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	
	2337.673	6.80	27.28	31.53	47.54	50.09	74.00	-23.91	peak
	2390.000	6.82	27.46	31.54	45.83	48.57	74.00	-25.43	peak
ממ	2404.000			31.54					•



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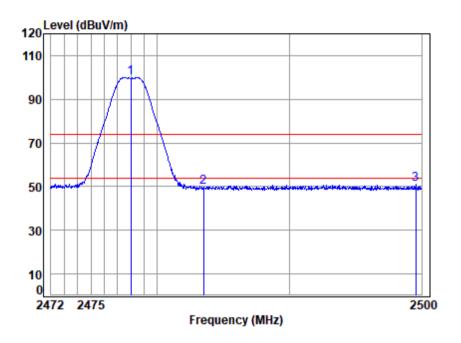


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Test Mode: 07; Polarity: Horizontal; Modulation: GFSK; Channel: High



Condition: 3m HORIZONTAL Job No : 03730AT/03731AT Mode : 2478 Band edge

· RIF 2M R

		. DLL	211 11								
			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	_										_
		MHz	dB	dB/m	dB	dBuV	d Bu V/m	dBuV/m	dB		
	1 pp	2478.000	7.36	27.77	31.55	96.40	99.98	74.00	25.98	peak	
1	2	2483.500	7.40	27.80	31.55	46.12	49.77	74.00	-24.23	peak	
	3	2499.578	7.51	27.90	31.55	47.27	51.13	74.00	-22.87	peak	



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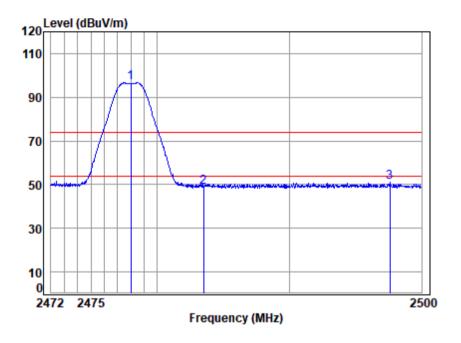


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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:High



Condition: 3m VERTICAL

Job No : 03730AT/03731AT Mode : 2478 Band edge

: BLE 2M R

	. DLL	211 11								
		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		
pp	2478.000	7.36	27.77	31.55	93.03	96.61	74.00	22.61	peak	
	2483.500	7.40	27.80	31.55	45.37	49.02	74.00	-24.98	peak	
	2497.580	7.49	27.89	31.55	47.29	51.12	74.00	-22.88	peak	



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7.2 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

Measurement Distance: 10m

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

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 50.9 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

	2.2 Test mode besorption											
Pre-scan / Final test	Mode Code	Description										
Final test	02	TX mode(1Mbps_Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation										
Pre-scan	03	TX mode(2Mbps_Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation										
Final test	06	TX mode(1Mbps_Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation										
Pre-scan	07	TX mode(2Mbps_Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation										



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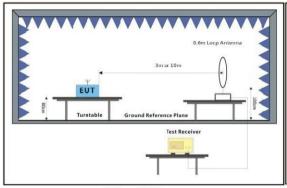
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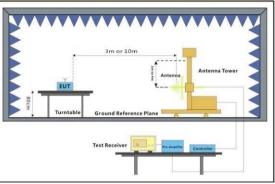


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7.2.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz

7.2.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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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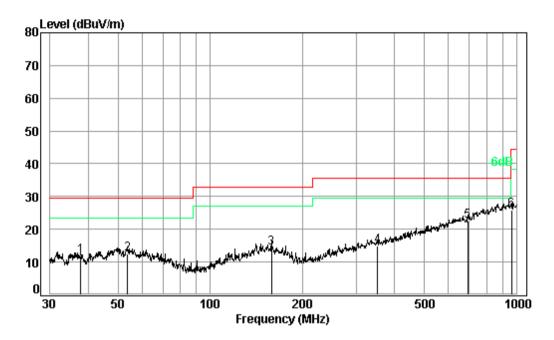


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Test Mode: 02; Polarity: Horizontal



Condition: 10m HORIZONTAL Job No. : 03730AT/03731AT

Test Mode: 02

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBu∀	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	37.812	27.10	16.70	0.44	32.50	11.74	29.50	-17.76	QP
2	53.693	26.43	18.10	0.53	32.49	12.57	29.50	-16.93	QP
3	158.668	27.88	17.81	0.99	32.40	14.28	33.00	-18.72	QP
4	351.708	27.11	18.54	1.53	32.30	14.88	35.60	-20.72	QP
5 p	p 694.417	27.45	25.03	2.22	32.31	22.39	35.60	-13.21	QP
6	965.542	26.57	27.90	2.66	31.27	25.86	44.40	-18.54	OP



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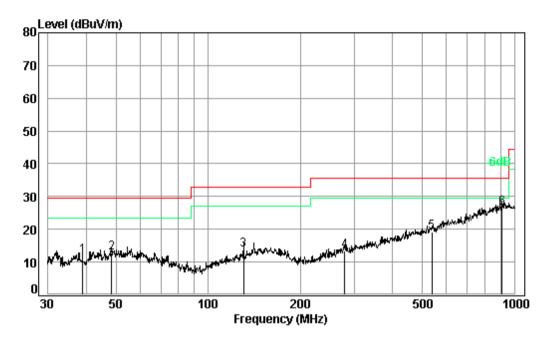


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Test Mode: 02; Polarity: Vertical



Condition: 10m VERTICAL Job No. : 03730AT/03731AT

Test Mode: 02

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
_									
	MHz	dBu∀	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	38.888	27.26	16.67	0.44	32.50	11.87	29.50	-17.63	QP
2	48.332	26.70	17.99	0.50	32.50	12.69	29.50	-16.81	QP
3	130.379	28.96	16.29	0.87	32.40	13.72	33.00	-19.28	QP
4	279.044	27.21	17.02	1.36	32.32	13.27	35.60	-22.33	QP
5	537.589	26.80	22.64	1.93	32.34	19.03	35.60	-16.57	QP
6 рр	912.862	27.62	27.61	2.62	31.37	26.48	35.60	-9.12	QP



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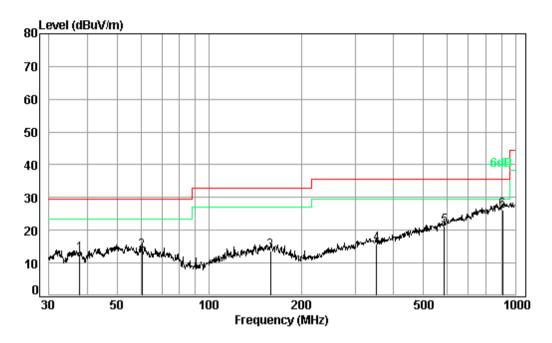


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Test Mode: 06; Polarity: Horizontal



Condition: 10m HORIZONTAL Job No. : 03730AT/03731AT

Test Mode: 06

	Freq		Ant Fact <i>o</i> r						Remark
-	MHz	dBu∀	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	37.812	28.10	16.70	0.44	32.50	12.74	29.50	-16.76	QP
2	60.280	28.30	17.26	0.55	32.47	13.64	29.50	-15.86	QP
3	158.668	27.28	17.81	0.99	32.40	13.68	33.00	-19.32	QP
4	351.708	27.91	18.54	1.53	32.30	15.68	35.60	-19.92	QP
5	586.844	28.01	23.60	2.06	32.39	21.28	35.60	-14.32	QP
6 pp	909.667	27.36	27.54	2.62	31.38	26.14	35.60	-9.46	OP



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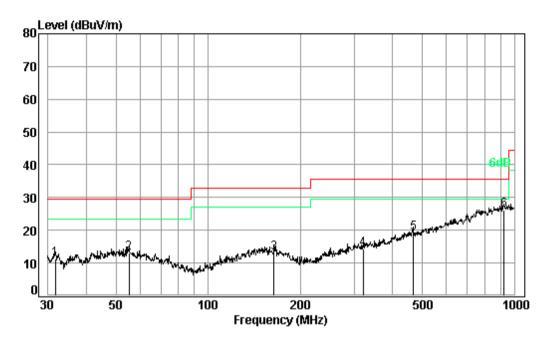


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Test Mode: 06; Polarity: Vertical



Condition: 10m VERTICAL Job No. : 03730AT/03731AT

Test Mode: 06

	Freq		Ant Fact <i>o</i> r						Remark
_	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	31.731	27.52	15.88	0.40	32.50	11.30	29.50	-18.20	QP
2	55.221	27.10	17.89	0.53	32.49	13.03	29.50	-16.47	QР
3	163.755	26.95	17.60	1.00	32.40	13.15	33.00	-19.85	QP
4	321.061	26.98	18.15	1.46	32.30	14.29	35.60	-21.31	QP
5	467.235	28.22	21.42	1.76	32.30	19.10	35.60	-16.50	QP
6 pp	925.756	27.00	27.84	2.63	31.35	26.12	35.60	-9.48	OP



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

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

Note:

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

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

The level at 3m test distance is below:

Test Mode: 02

rest Mode. 02								
Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization	
37.812	11.74	3.86	12.88	22.20	40.00	-17.80	Н	
53.693	12.57	4.25	14.17	23.03	40.00	-16.97	Н	
158.668	14.28	5.18	17.25	24.74	43.50	-18.76	Н	
351.708	14.88	5.55	18.49	25.34	46.00	-20.66	Н	
694.417	22.39	13.17	43.89	32.85	46.00	-13.15	Н	
965.542	25.86	19.63	65.45	36.32	54.00	-17.68	Н	
38.888	11.87	3.92	13.07	22.33	40.00	-17.67	V	
48.332	12.69	4.31	14.37	23.15	40.00	-16.85	V	
130.379	13.72	4.85	16.18	24.18	43.50	-19.32	V	
279.044	13.27	4.61	15.36	23.73	46.00	-22.27	V	
537.589	19.03	8.94	29.81	29.49	46.00	-16.51	V	
912.862	26.48	21.09	70.29	36.94	46.00	-9.06	V	



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Test Mode: 06

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization
37.812	12.74	4.34	14.45	23.20	40.00	-16.80	Н
60.280	13.64	4.81	16.03	24.10	40.00	-15.90	Н
158.668	13.68	4.83	16.10	24.14	43.50	-19.36	Н
351.708	15.68	6.08	20.27	26.14	46.00	-19.86	Н
586.844	21.28	11.59	38.63	31.74	46.00	-14.26	Н
909.667	26.14	20.28	67.59	36.60	46.00	-9.40	Н
31.731	11.30	3.67	12.24	21.76	40.00	-18.24	V
55.221	13.03	4.48	14.94	23.49	40.00	-16.51	V
163.755	13.15	4.54	15.15	23.61	43.50	-19.89	V
321.061	14.29	5.18	17.27	24.75	46.00	-21.25	V
467.235	19.10	9.02	30.05	29.56	46.00	-16.44	V
925.756	26.12	20.23	67.43	36.58	46.00	-9.42	V



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7.3 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

Measurement Distance: 3m

Limit:

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

7.3.1 E.U.T. Operation

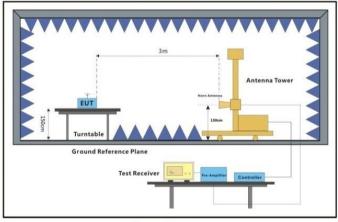
Operating Environment:

Temperature: 23.5 °C Humidity: 60.2 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Tional Took micro Becomption										
Pre-scan / Final test	Mode Code	Description								
Final test	02	TX mode(1Mbps_Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation								
Final test	03	TX mode(2Mbps_Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation								
Final test	06	TX mode(1Mbps_Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation								
Final test	07	TX mode(2Mbps_Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation								

7.3.3 Test Setup Diagram



Above 1GHz



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7.3.4 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.
- 4: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
- 5:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥1/T (Duty cycle<98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.



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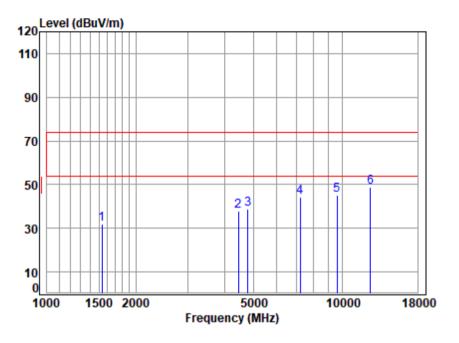


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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Condition: 3m HORIZONTAL Job No : 03730AT/03731AT Mode : 2402 TX RSE

: BLE 1M L

		T11								
		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	1533.841	7.18	24.97	54.70	54.28	31.73	74.00	-42.27	peak	
2	4456.315	8.55	31.43	55.92	53.66	37.72	74.00	-36.28	peak	
3	4804.000	8.90	31.92	56.16	53.91	38.57	74.00	-35.43	peak	
4	7206.000	11.10	36.60	56.54	53.23	44.39	74.00	-29.61	peak	
5	9608.000	12.38	38.78	54.45	48.34	45.05	74.00	-28.95	peak	
6	nn12469 610	14 84	39 90	54 13	48 15	48 76	74 00	-25 24	neak	



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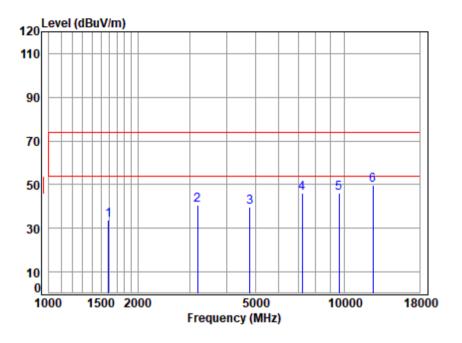


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Report No.: SZCR241000373003

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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL

Job No : 03730AT/03731AT

Mode : 2402 TX RSE

: BLE 1M L

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1592.571	7.11	25.09	54.70	56.47	33.97	74.00	-40.03	peak
2	3186.869	7.70	29.20	55.11	58.84	40.63	74.00	-33.37	peak
3	4804.000	8.90	31.92	56.16	54.91	39.57	74.00	-34.43	peak
4	7206.000	11.10	36.60	56.54	54.87	46.03	74.00	-27.97	peak
5	9608.000	12.38	38.78	54.45	49.60	46.31	74.00	-27.69	peak
6	pp12505.710	14.87	39.91	54.15	49.29	49.92	74.00	-24.08	peak



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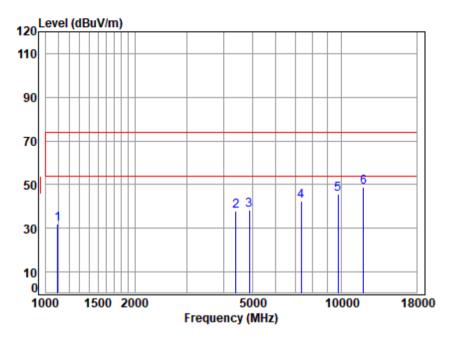


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Report No.: SZCR241000373003

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Test Mode: 02; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Condition: 3m HORIZONTAL Job No : 03730AT/03731AT Mode : 2440 TX RSE

: BLE 1M L

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1096.904	7.10	25.59	54.70	54.16	32.15	74.00	-41.85	peak
2	4405.090	8.54	31.22	55.88	54.03	37.91	74.00	-36.09	peak
3	4880.000	8.98	32.16	56.22	53.45	38.37	74.00	-35.63	peak
4	7320.000	11.12	36.74	56.44	51.23	42.65	74.00	-31.35	peak
5	9760.000	12.84	38.60	54.32	48.44	45.56	74.00	-28.44	peak
6	pp11906.070	14.62	39.71	53.77	48.10	48.66	74.00	-25.34	peak



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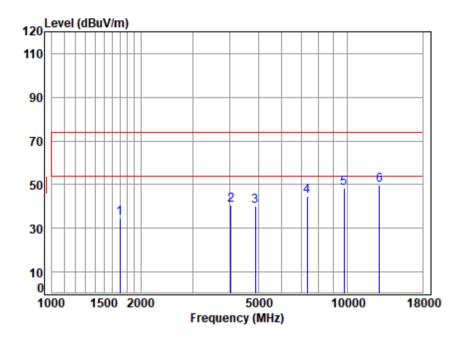


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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:middle



Condition: 3m VERTICAL

Job No : 03730AT/03731AT

Mode : 2440 TX RSE

: BLE 1M L

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1702.042	7.20	25.11	54.70	56.92	34.53	74.00	-39.47	peak
2									
3	4880.000	8.98	32.16	56.22	55.17	40.09	74.00	-33.91	peak
4	7320.000	11.12	36.74	56.44	53.20	44.62	74.00	-29.38	peak
5	9760.000	12.84	38.60	54.32	51.41	48.53	74.00	-25.47	peak
6	pp12835.290	15.18	40.34	54.38	48.68	49.82	74.00	-24.18	peak



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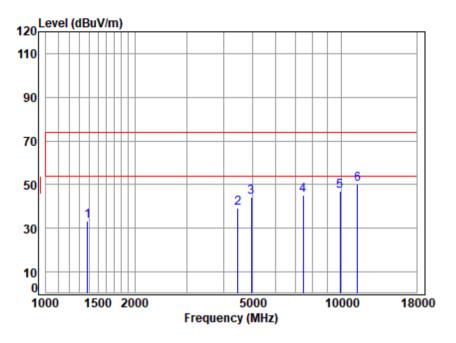


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Report No.: SZCR241000373003

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Test Mode: 02; Polarity: Horizontal; Modulation: GFSK; Channel: High



Condition: 3m HORIZONTAL Job No : 03730AT/03731AT Mode : 2480 TX RSE

: BLE 1M L

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1386.264	7.20	25.03	54.70	55.91	33.44	74.00	-40.56	peak
2	4469.214	8.55	31.48	55.93	55.25	39.35	74.00	-34.65	peak
3	4960.000	9.07	32.20	56.27	59.11	44.11	74.00	-29.89	peak
4	7440.000	11.08	36.78	56.35	53.62	45.13	74.00	-28.87	peak
5	9920.000	12.73	38.90	54.17	49.62	47.08	74.00	-26.92	peak
6	pp11335.190	14.29	39.70	53.60	49.62	50.01	74.00	-23.99	peak



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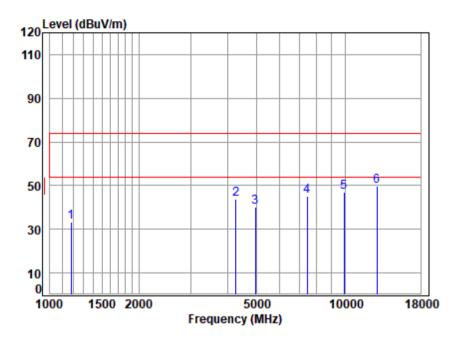


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Report No.: SZCR241000373003

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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



Condition: 3m VERTICAL Job No : 03730AT/03731AT

Mode : 2480 TX RSE

: BLE 1M L

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1179.100	7.17	25.34	54.70	55.36	33.17	74.00	-40.83	peak
2	4267.237	8.47	31.17	55.79	60.14	43.99	74.00	-30.01	peak
3	4960.000	9.07	32.20	56.27	55.24	40.24	74.00	-33.76	peak
4	7440.000	11.08	36.78	56.35	53.55	45.06	74.00	-28.94	peak
5	9920.000	12.73	38.90	54.17	49.50	46.96	74.00	-27.04	peak
6	pp12798.240	15.15	40.30	54.36	48.65	49.74	74.00	-24.26	peak



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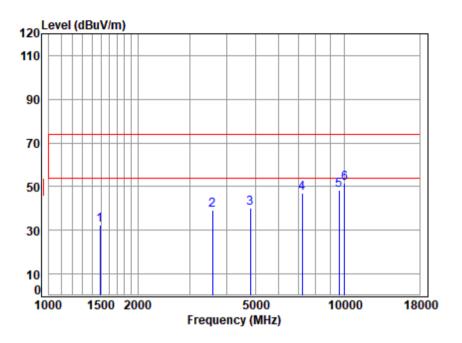


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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Condition: 3m HORIZONTAL Job No : 03730AT/03731AT Mode : 2404 TX RSE

: BLE 2M L

		211 6							
		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	1490.142	7.22	24.94	54.70	54.77	32.23	74.00	-41.77	peak
2	3577.463	7.75	29.85	55.35	57.03	39.28	74.00	-34.72	peak
3	4808.000	8.91	31.93	56.17	55.52	40.19	74.00	-33.81	peak
4	7212.000	11.10	36.60	56.53	55.95	47.12	74.00	-26.88	peak
5	9616.000	12.40	38.77	54.45	51.68	48.40	74.00	-25.60	peak
6	nn10039 390	12 91	38 98	54 08	53 57	51 38	74 00	-22 62	neak



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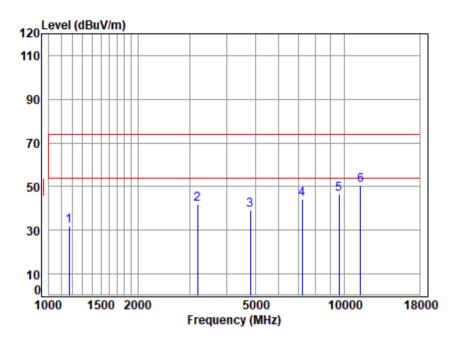


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Report No.: SZCR241000373003

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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL

Job No : 03730AT/03731AT

Mode : 2404 TX RSE

: BLE 2M L

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1168.920	7.16	25.36	54.70	54.06	31.88	74.00	-42.12	peak
2	3186.869	7.70	29.20	55.11	60.15	41.94	74.00	-32.06	peak
3	4808.000	8.91	31.93	56.17	54.62	39.29	74.00	-34.71	peak
4	7212.000	11.10	36.60	56.53	52.99	44.16	74.00	-29.84	peak
5	9616.000	12.40	38.77	54.45	49.90	46.62	74.00	-27.38	peak
6	pp11335.190	14.29	39.70	53.60	50.07	50.46	74.00	-23.54	peak



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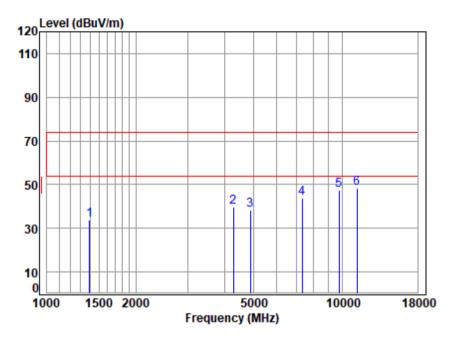


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000373003

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Test Mode: 03; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Condition: 3m HORIZONTAL Job No : 03730AT/03731AT Mode : 2440 TX RSE

: BLE 2M L

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1394.300	7.21	25.01	54.70	56.05	33.57	74.00	-40.43	peak
2	4291.977	8.45	31.27	55.80	55.82	39.74	74.00	-34.26	peak
3	4880.000	8.98	32.16	56.22	53.59	38.51	74.00	-35.49	peak
4	7320.000	11.12	36.74	56.44	52.24	43.66	74.00	-30.34	peak
5	9760.000	12.84	38.60	54.32	50.47	47.59	74.00	-26.41	peak
6	pp11237.330	14.30	39.64	53.57	48.07	48.44	74.00	-25.56	peak



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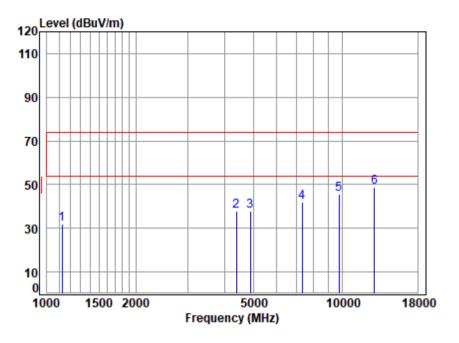


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Report No.: SZCR241000373003

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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:middle



Condition: 3m VERTICAL

Job No : 03730AT/03731AT

Mode : 2440 TX RSE

: BLE 2M L

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1125.813	7.12	25.50	54.70	53.91	31.83	74.00	-42.17	peak
2	4379.699	8.52	31.24	55.87	54.04	37.93	74.00	-36.07	peak
3	4880.000	8.98	32.16	56.22	52.87	37.79	74.00	-36.21	peak
4	7320.000	11.12	36.74	56.44	50.75	42.17	74.00	-31.83	peak
5	9760.000	12.84	38.60	54.32	48.61	45.73	74.00	-28.27	peak
6	pp12835.290								-



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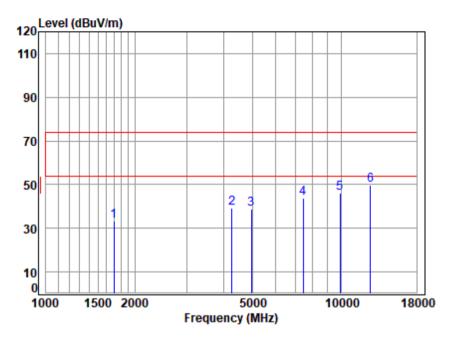


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Report No.: SZCR241000373003

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Test Mode: 03; Polarity: Horizontal; Modulation: GFSK; Channel: High



Condition: 3m HORIZONTAL Job No : 03730AT/03731AT Mode : 2478 TX RSE

: BLE 2M L

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1702.042	7.20	25.11	54.70	55.74	33.35	74.00	-40.65	peak
2									•
3	4956.000	9.06	32.20	56.27	53.69	38.68	74.00	-35.32	peak
4	7434.000	11.09	36.77	56.35	52.50	44.01	74.00	-29.99	peak
5	9912.000	12.71	38.90	54.18	48.51	45.94	74.00	-28.06	peak
6	pp12578.210	14.81	40.06	54.20	49.23	49.90	74.00	-24.10	peak



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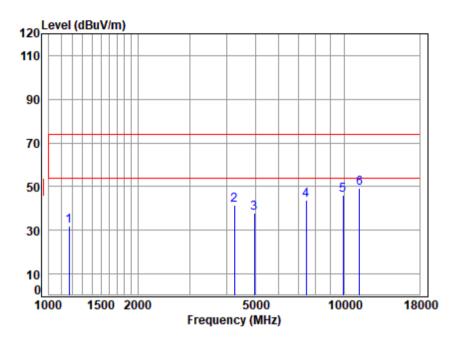


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Report No.: SZCR241000373003

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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:High



Condition: 3m VERTICAL

Job No : 03730AT/03731AT

Mode : 2478 TX RSE

: BLE 2M L

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1168.920	7.16	25.36	54.70	53.98	31.80	74.00	-42.20	peak
2	4254.921	8.48	31.12	55.78	57.86	41.68	74.00	-32.32	peak
3	4956.000	9.06	32.20	56.27	52.95	37.94	74.00	-36.06	peak
4	7434.000	11.09	36.77	56.35	52.35	43.86	74.00	-30.14	peak
5									•
6	pp11269.860	14.35	39.67	53.58	49.06	49.50	74.00	-24.50	peak



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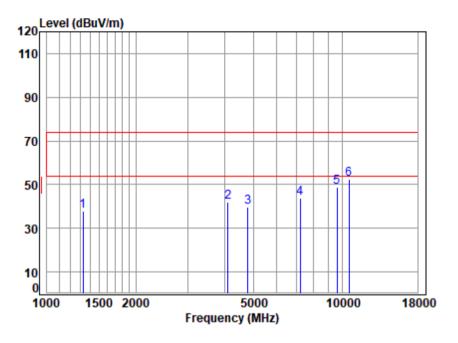


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Report No.: SZCR241000373003

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Test Mode: 06; Polarity: Horizontal; Modulation: GFSK; Channel:Low



Condition: 3m HORIZONTAL Job No : 03730AT/03731AT

Mode : 2402 TX RSE

: BLE 1M R

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	4207 446	- 4-	05.45	F.4. 70	60.36	37.00	74.00	26.00	
1	1327.446	/.1/	25.15	54.70	60.36	37.98	74.00	-36.02	peak
2	4109.872	8.37	30.42	55.68	59.06	42.17	74.00	-31.83	peak
3	4804.000	8.90	31.92	56.16	54.97	39.63	74.00	-34.37	peak
4	7206.000	11.10	36.60	56.54	52.50	43.66	74.00	-30.34	peak
5	9608.000	12.38	38.78	54.45	52.31	49.02	74.00	-24.98	peak
6	pp10545.010	13.33	39.19	53.77	53.65	52.40	74.00	-21.60	peak



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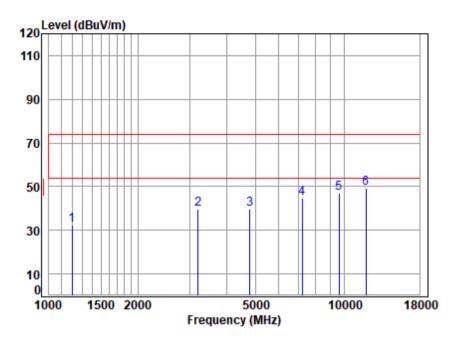


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Report No.: SZCR241000373003

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Test Mode: 06; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL

Job No : 03730AT/03731AT

Mode : 2402 TX RSE

: BLE 1M R

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1196.264	7.19	25.31	54.70	54.64	32.44	74.00	-41.56	peak
2	3196.094	7.70	29.20	55.12	57.95	39.73	74.00	-34.27	peak
3	4804.000	8.90	31.92	56.16	55.17	39.83	74.00	-34.17	peak
4	7206.000	11.10	36.60	56.54	53.76	44.92	74.00	-29.08	peak
5	9608.000	12.38	38.78	54.45	50.15	46.86	74.00	-27.14	peak
6	pp11837.450	14.61	39.64	53.75	48.98	49.48	74.00	-24.52	peak



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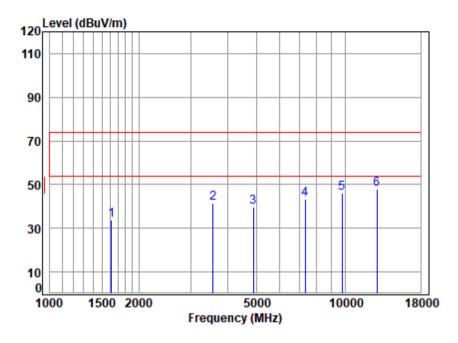


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Test Mode: 06; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Condition: 3m HORIZONTAL Job No : 03730AT/03731AT Mode : 2440 TX RSE

: BLE 1M R

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1615.754	7.12	25.07	54.70	56.24	33.73	74.00	-40.27	peak
2	3567.138	7.75	29.83	55.34	59.41	41.65	74.00	-32.35	peak
3	4880.000	8.98	32.16	56.22	54.81	39.73	74.00	-34.27	peak
4	7320.000	11.12	36.74	56.44	51.96	43.38	74.00	-30.62	peak
5	9760.000	12.84	38.60	54.32	48.85	45.97	74.00	-28.03	peak
6	pp12798.240								-



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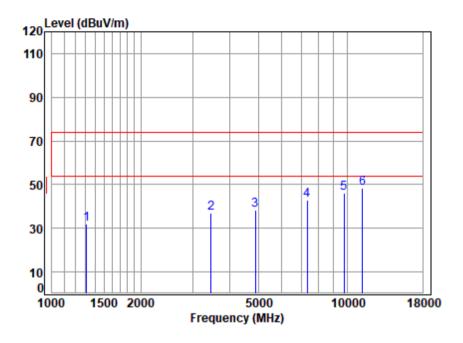


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Report No.: SZCR241000373003

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Test Mode: 06; Polarity: Vertical; Modulation:GFSK; Channel:middle



Condition: 3m VERTICAL

Job No : 03730AT/03731AT

: 2440 TX RSE Mode

· BLF 1M R

	. DLL	THE IX								
		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	1312.187	7.16	25.18	54.70	54.28	31.92	74.00	-42.08	peak	
2	3465.510	7.70	29.46	55.28	54.87	36.75	74.00	-37.25	Peak	
3	4880.000	8.98	32.16	56.22	53.60	38.52	74.00	-35.48	peak	
4	7320.000	11.12	36.74	56.44	51.60	43.02	74.00	-30.98	peak	
5	9760.000	12.84	38.60	54.32	49.08	46.20	74.00	-27.80	peak	
6	pp11269.860	14.35	39.67	53.58	47.76	48.20	74.00	-25.80	peak	



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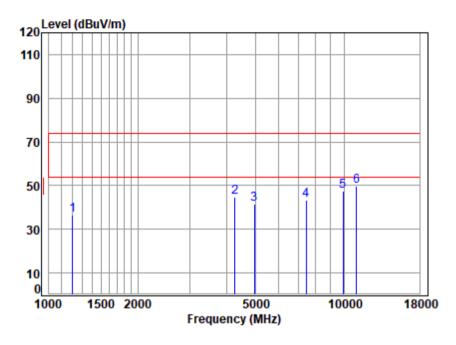


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Report No.: SZCR241000373003

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Test Mode: 06; Polarity: Horizontal; Modulation: GFSK; Channel: High



Condition: 3m HORIZONTAL Job No : 03730AT/03731AT Mode : 2480 TX RSE

: BLE 1M R

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1203.199	7.19	25.30	54.70	58.90	36.69	74.00	-37.31	peak
2	4267.237	8.47	31.17	55.79	60.75	44.60	74.00	-29.40	peak
3	4960.000	9.07	32.20	56.27	56.60	41.60	74.00	-32.40	peak
4	7440.000	11.08	36.78	56.35	51.89	43.40	74.00	-30.60	peak
5	9920.000	12.73	38.90	54.17	49.82	47.28	74.00	-26.72	peak
6	pp11012.250	14.21	39.41	53.50	49.82	49.94	74.00	-24.06	peak



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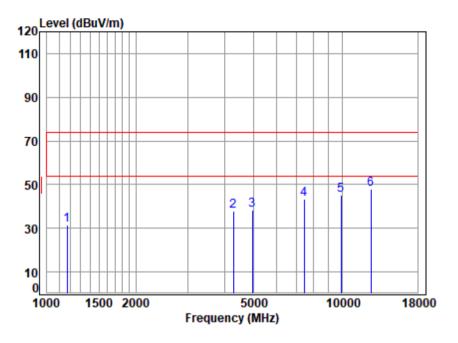


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Report No.: SZCR241000373003

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Test Mode: 06; Polarity: Vertical; Modulation:GFSK; Channel:High



Condition: 3m VERTICAL

Job No : 03730AT/03731AT

Mode : 2480 TX RSE

: BLE 1M R

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1168.920	7.16	25.36	54.70	53.69	31.51	74.00	-42.49	peak
2	4279.589	8.46	31.22	55.80	54.03	37.91	74.00	-36.09	peak
3	4960.000	9.07	32.20	56.27	53.28	38.28	74.00	-35.72	peak
4	7440.000	11.08	36.78	56.35	52.03	43.54	74.00	-30.46	peak
5	9920.000	12.73	38.90	54.17	47.78	45.24	74.00	-28.76	peak
6	pp12505.710	14.87	39.91	54.15	47.30	47.93	74.00	-26.07	peak



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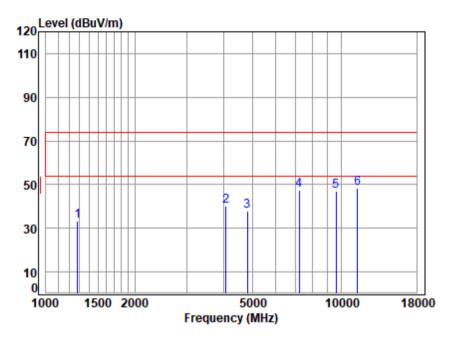


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Report No.: SZCR241000373003

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



Condition: 3m HORIZONTAL Job No : 03730AT/03731AT Mode : 2404 TX RSE

: BLE 2M R

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	4000 400					40			
1	1282.193	/.16	25.24	54.70	55.42	33.12	/4.00	-40.88	peak
2	4074.388	8.30	30.35	55.65	56.96	39.96	74.00	-34.04	peak
3	4808.000	8.91	31.93	56.17	53.39	38.06	74.00	-35.94	peak
4	7212.000	11.10	36.60	56.53	56.07	47.24	74.00	-26.76	peak
5	9616.000	12.40	38.77	54.45	50.20	46.92	74.00	-27.08	peak
6	pp11335.190	14.29	39.70	53.60	47.95	48.34	74.00	-25.66	peak



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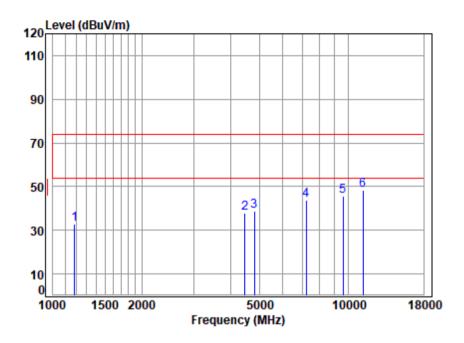


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Report No.: SZCR241000373003

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



Condition: 3m VERTICAL

Job No : 03730AT/03731AT

Mode : 2404 TX RSE

: BLE 2M R

	Freq			Preamp Factor		Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1185.936	7.18	25.33	54.70	54.87	32.68	74.00	-41.32	peak
2	4469.214	8.55	31.48	55.93	53.66	37.76	74.00	-36.24	peak
3	4808.000	8.91	31.93	56.17	53.97	38.64	74.00	-35.36	peak
4	7212.000	11.10	36.60	56.53	52.58	43.75	74.00	-30.25	peak
5	9616.000	12.40	38.77	54.45	49.00	45.72	74.00	-28.28	peak
6	pp11237.330	14.30	39.64	53.57	47.99	48.36	74.00	-25.64	peak



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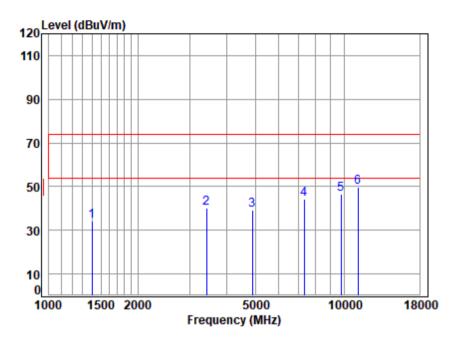


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Report No.: SZCR241000373003

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



Condition: 3m HORIZONTAL Job No : 03730AT/03731AT Mode : 2440 TX RSE

: BLE 2M R

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1398.336	7.21	25.00	54.70	56.84	34.35	74.00	-39.65	peak
2	3415.787	7.66	29.33	55.25	58.38	40.12	74.00	-33.88	peak
3	4880.000	8.98	32.16	56.22	54.47	39.39	74.00	-34.61	peak
4	7320.000	11.12	36.74	56.44	52.78	44.20	74.00	-29.80	peak
5	9760.000	12.84	38.60	54.32	49.58	46.70	74.00	-27.30	peak
6	pp11140.310	14.17	39.54	53.54	49.35	49.52	74.00	-24.48	peak



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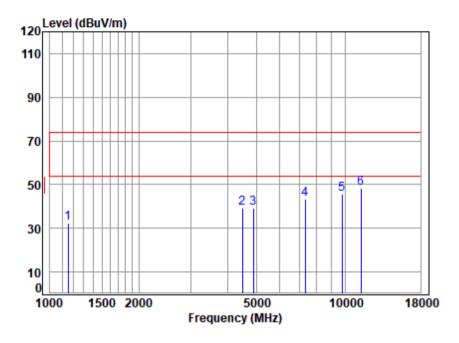


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Report No.: SZCR241000373003

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



Condition: 3m VERTICAL

Job No : 03730AT/03731AT

Mode : 2440 TX RSE

: BLE 2M R

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1152.148	7.15	25.40	54.70	54.38	32.23	74.00	-41.77	peak
2	4495.125	8.56	31.58	55.95	55.21	39.40	74.00	-34.60	peak
3	4880.000	8.98	32.16	56.22	54.47	39.39	74.00	-34.61	peak
4	7320.000	11.12	36.74	56.44	51.78	43.20	74.00	-30.80	peak
5	9760.000	12.84	38.60	54.32	48.65	45.77	74.00	-28.23	peak
6	pp11302.480	14.39	39.70	53.59	47.87	48.37	74.00	-25.63	peak



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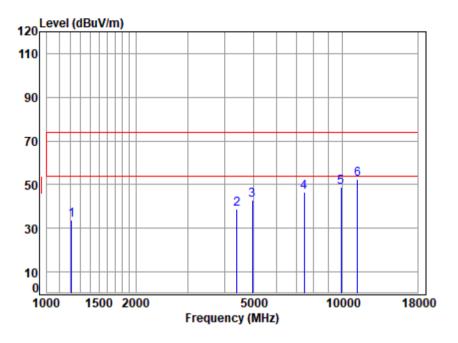


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Report No.: SZCR241000373003

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



Condition: 3m HORIZONTAL Job No : 03730AT/03731AT Mode : 2478 TX RSE

: BLE 2M R

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1213.677	7.18	25.30	54.70	56.02	33.80	74.00	-40.20	peak
2	4405.090	8.54	31.22	55.88	54.85	38.73	74.00	-35.27	peak
3	4956.000	9.06	32.20	56.27	58.02	43.01	74.00	-30.99	peak
4	7434.000	11.09	36.77	56.35	54.99	46.50	74.00	-27.50	peak
5	9912.000	12.71	38.90	54.18	51.40	48.83	74.00	-25.17	peak
6	pp11269.860	14.35	39.67	53.58	52.14	52.58	74.00	-21.42	peak



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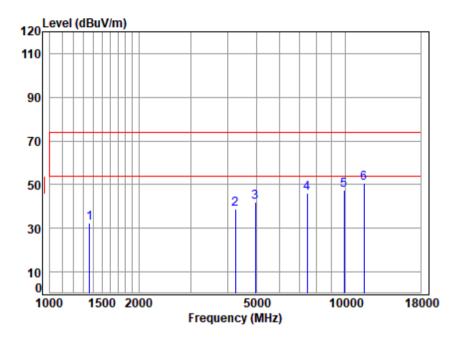


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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:High



Condition: 3m VERTICAL

Job No : 03730AT/03731AT

Mode : 2478 TX RSE

: BLE 2M R

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	4360 430	7.40	25 22	F4 70	F4 06	20.42	74.00	44 57	
1	1362.430	7.19	25.08	54.70	54.86	32.43	74.00	-41.5/	peak
2	4254.921	8.48	31.12	55.78	54.80	38.62	74.00	-35.38	peak
3	4956.000	9.06	32.20	56.27	56.84	41.83	74.00	-32.17	peak
4	7434.000	11.09	36.77	56.35	54.80	46.31	74.00	-27.69	peak
5	9912.000	12.71	38.90	54.18	50.15	47.58	74.00	-26.42	peak
6	pp11600.350	14.48	39.60	53.68	50.36	50.76	74.00	-23.24	peak



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7.4 Conducted Peak Output Power

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

Limit:

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

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 40.1 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

	1.4.2 Test mode besorption							
Pre-scan / Final test	Mode Code	Description						
Final test	02	TX mode(1Mbps_Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation						
Final test	03	TX mode(2Mbps_Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation						
Final test	06	TX mode(1Mbps_Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation						
Final test	07	TX mode(2Mbps_Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation						



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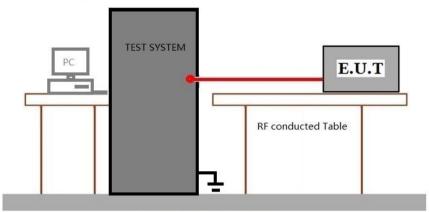


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7.4.3 Test Setup Diagram



Ground Reference Plane

7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.5 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

7.5.1 E.U.T. Operation

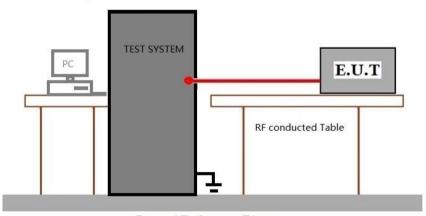
Operating Environment:

Atmospheric Pressure: 1020 mbar Temperature: 23.5 °C Humidity: 40.1 % RH

7.5.2 Test Mode Description

. ion root mous possinguism							
Pre-scan / Final test	Mode Code	Description					
Final test	02	TX mode(1Mbps_Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation					
Final test	03	TX mode(2Mbps_Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation					
Final test	06	TX mode(1Mbps_Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation					
Final test	07	TX mode(2Mbps_Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation					

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 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

7.6.1 E.U.T. Operation

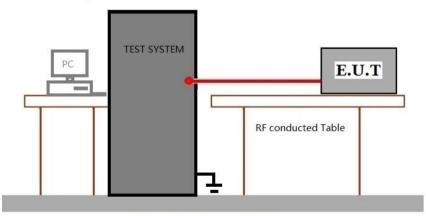
Operating Environment:

Temperature: 23.5 °C Humidity: 40.1 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

. io.z Took mode Doodingston							
Pre-scan / Final test	Mode Code	Description					
Final test	02	TX mode(1Mbps_Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation					
Final test	03	TX mode(2Mbps_Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation					
Final test	06	TX mode(1Mbps_Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation					
Final test	07	TX mode(2Mbps_Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation					

7.6.3 Test Setup Diagram



Ground Reference Plane

7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.7 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).

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 40.1 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

	The root mode boothpaten							
Pre-scan / Final test	Mode Code	Description						
Final test	02	TX mode(1Mbps_Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation						
Final test	03	TX mode(2Mbps_Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation						
Final test	06	TX mode(1Mbps_Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation						
Final test	07	TX mode(2Mbps_Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation						



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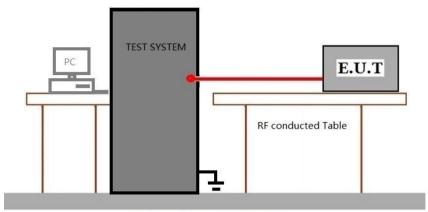


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7.7.3 Test Setup Diagram



Ground Reference Plane

7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.8 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).

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 40.1 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

	Tiola Tool mede Becomption							
Pre-scan / Final test	Mode Code	Description						
Final test	02	TX mode(1Mbps_Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation						
Final test	03	TX mode(2Mbps_Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation						
Final test	06	TX mode(1Mbps_Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation						
Final test	07	TX mode(2Mbps_Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation						



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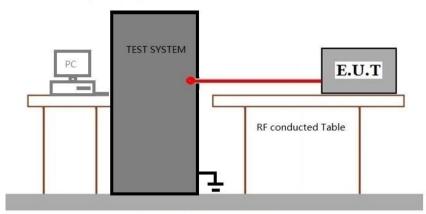


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7.8.3 Test Setup Diagram



Ground Reference Plane

7.8.4 Measurement Procedure and Data

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Test Setup Photo 8

Refer to Appendix - Test Setup Photo for SZCR2410003730AT

EUT Constructional Details (EUT Photos) 9

Refer to External and Internal Photos for SZCR2410003730AT



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10 Appendix

For right earbud:

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

	Ant1									
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)			
	2402	0.380	0.625	60.80	2.16	0.00				
1M	SISO	2440	0.380	0.625	60.80	2.16	0.02			
		2480	0.380	0.625	60.80	2.16	0.00			
		2404	0.201	0.625	32.16	4.93	0.03			
2M	SISO	2440	0.201	0.625	32.16	4.93	0.02			
		2478	0.201	0.625	32.16	4.93	0.00			



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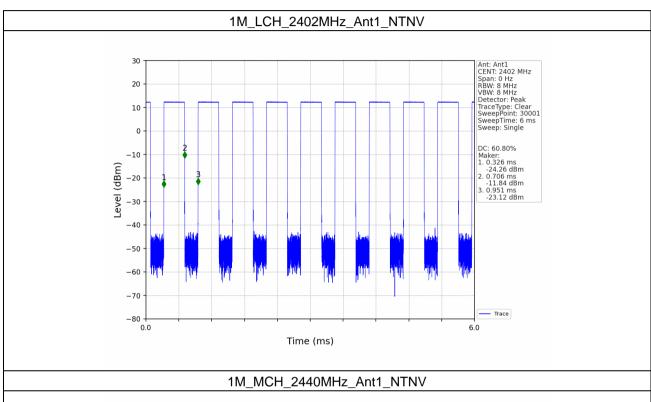
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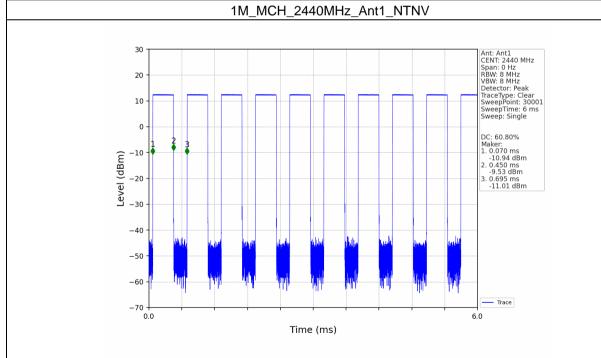
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1.2 Test Graph

1.2.1 Ant1







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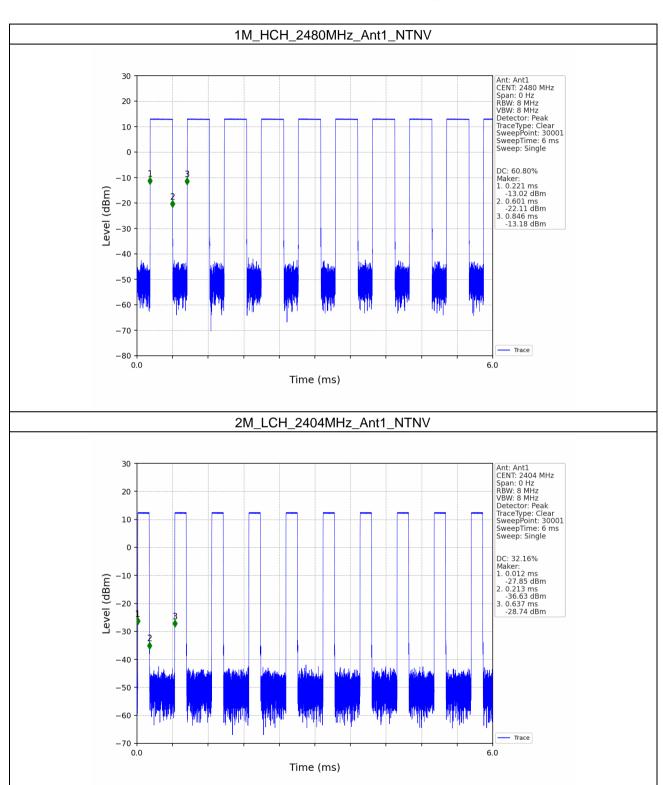
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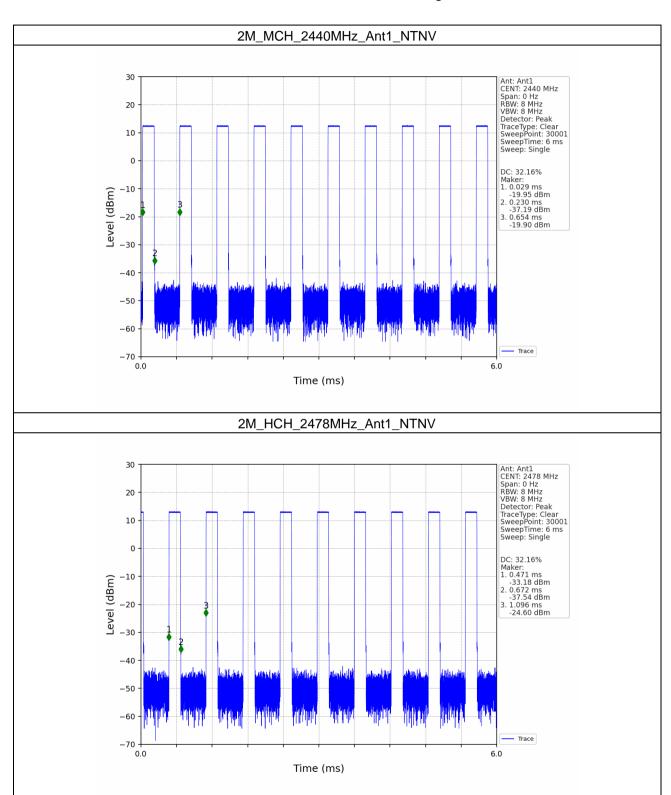
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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX	X Frequency	ANIT	99% Occupied E	\/ordiot	
	Type	(MHz)	ANT	Result	Limit	Verdict
		2402	1	1.042	/	Pass
1M	SISO	2440	1	1.045	/	Pass
		2480	1	1.039	/	Pass
		2404	1	2.080	/	Pass
2M	SISO	2440	1	2.084	/	Pass
		2478	1	2.077	/	Pass

2.1.2 6dB BW

Mada	TX	Frequency	ANIT	6dB Bandv	Vardiet		
Mode	Type	(MHz)	ANT	Result	Limit	Verdict	
		2402	1	0.714	>=0.5	Pass	
1M	SISO	2440	1	0.714	>=0.5	Pass	
		2480	1	0.709	>=0.5	Pass	
	SISO	2404	1	1.264	>=0.5	Pass	
2M		2440	1	1.264	>=0.5	Pass	
		2478	1	1.268	>=0.5	Pass	



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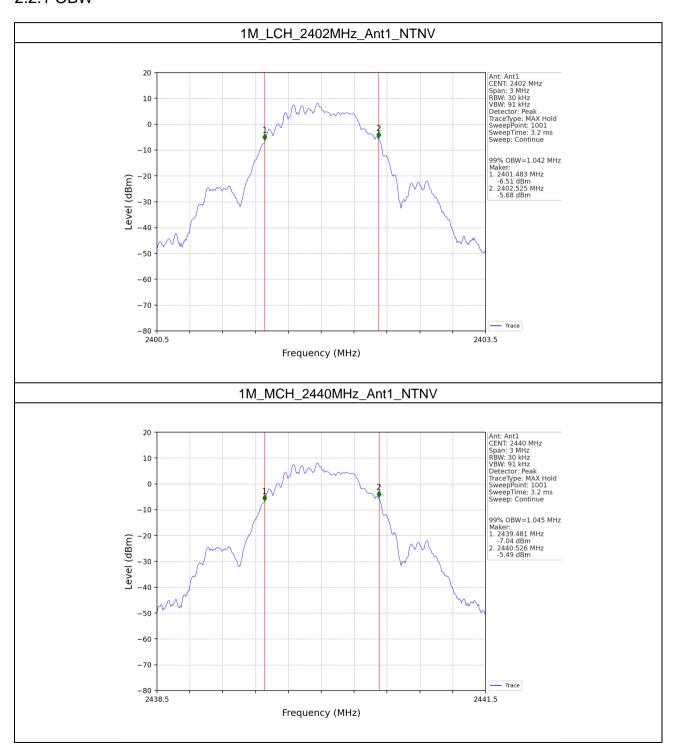
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2.2 Test Graph

2.2.1 OBW





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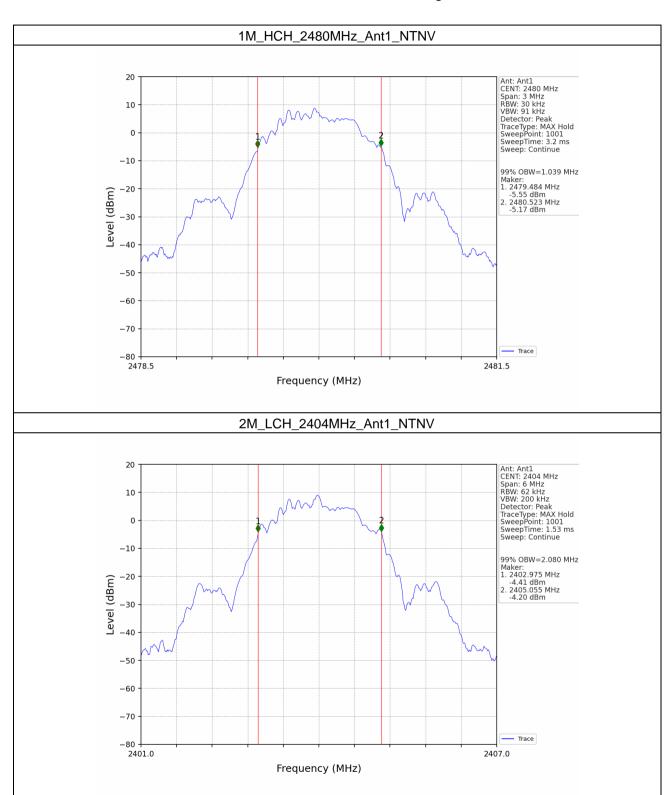
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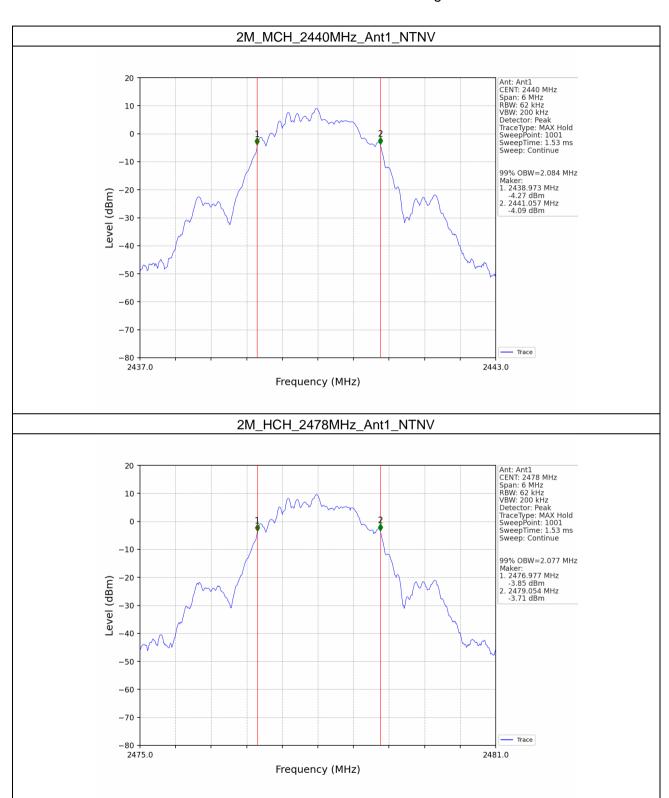
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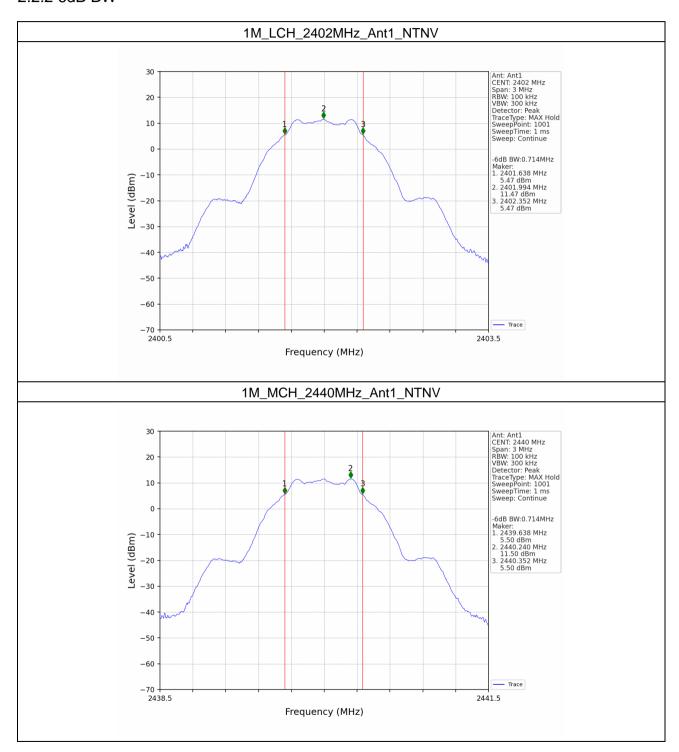


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2.2.2 6dB BW





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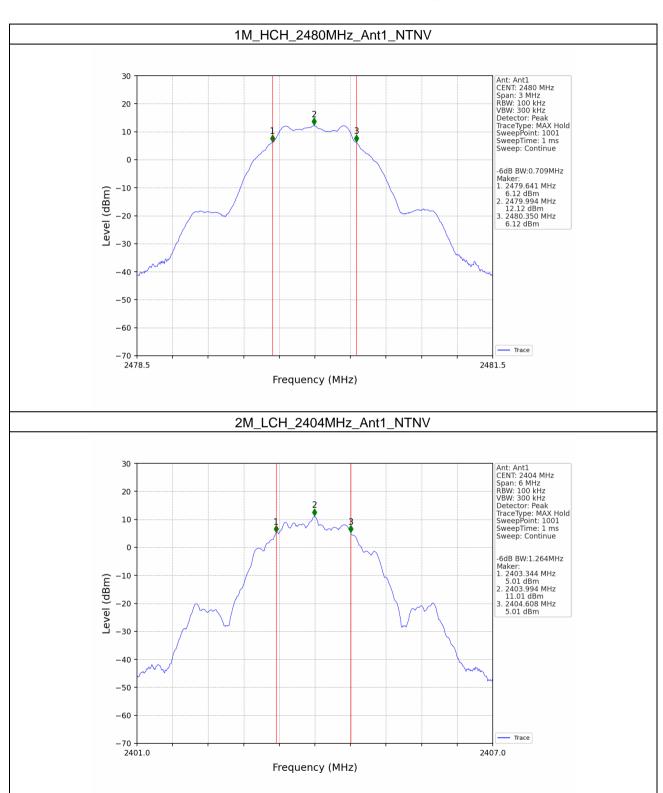
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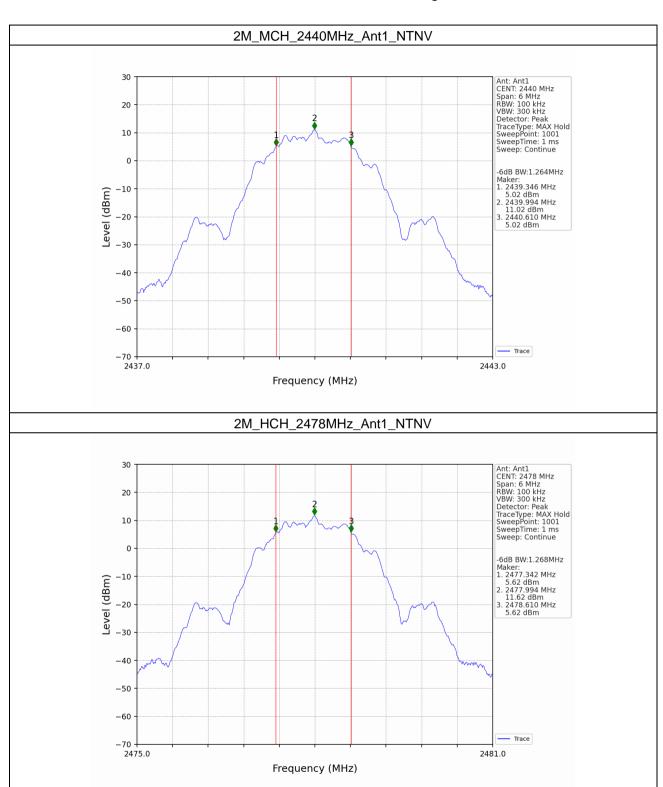
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3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX	Frequency	Maximum Peak Conduc	Maximum Peak Conducted Output Power (dBm)			
Mode	Type	(MHz)	ANT1	Limit	Verdict		
	SISO	2402	6.72	<=30	Pass		
1M		2440	6.73	<=30	Pass		
		2480	7.65	<=30	Pass		
	SISO	2404	6.71	<=30	Pass		
2M		2440	6.77	<=30	Pass		
		2478	7.65	<=30	Pass		

4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX	Frequency	Maximum PS	\/andiat	
Mode	Type	(MHz)	ANT1	Limit	Verdict
		2402	-8.57	<=8	Pass
1M	SISO	2440	-8.54	<=8	Pass
		2480	-7.60	<=8	Pass
	SISO	2404	-10.82	<=8	Pass
2M		2440	-10.74	<=8	Pass
		2478	-9.95	<=8	Pass



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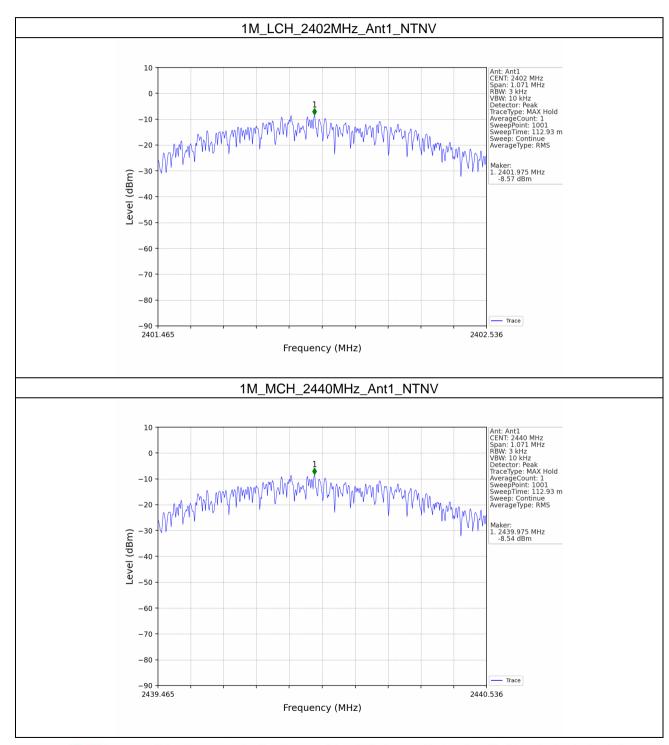
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4.2 Test Graph

4.2.1 PSD





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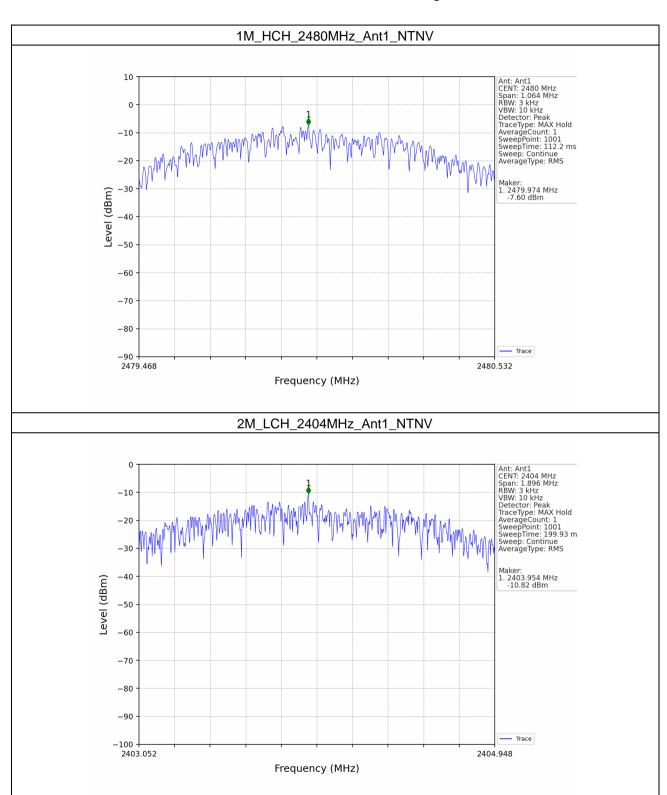
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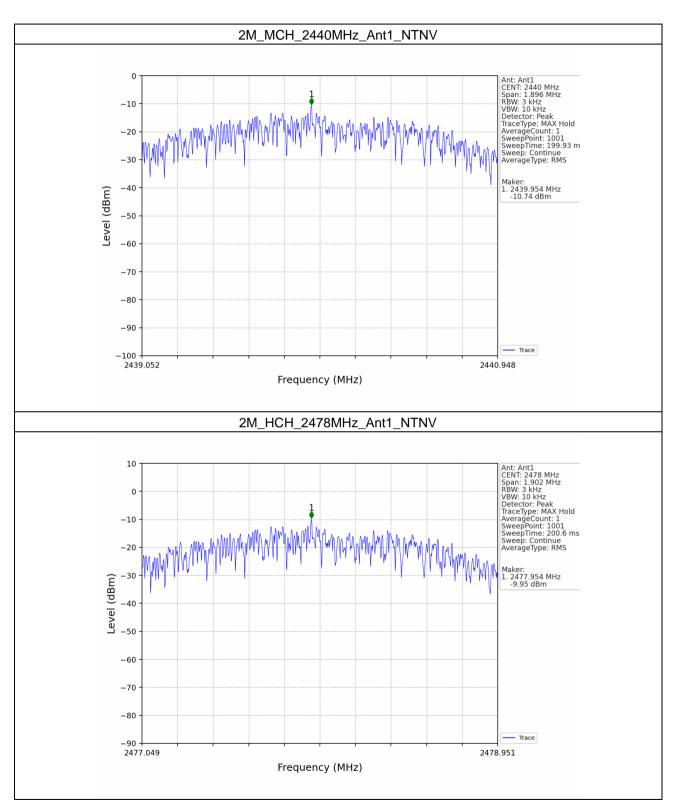
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
		2402	1	5.90
1M	SISO	2440	1	5.92
		2480	1	6.84
	SISO	2404	1	5.36
2M		2440	1	5.40
		2478	1	6.24

5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
		2402	1	6.84	-13.16	Pass
1M	SISO	2440	1	6.84	-13.16	Pass
		2480	1	6.84	-13.16	Pass
		2404	1	6.24	-13.76	Pass
2M	SISO	2440	1	6.24	-13.76	Pass
		2478	1	6.24	-13.76	Pass



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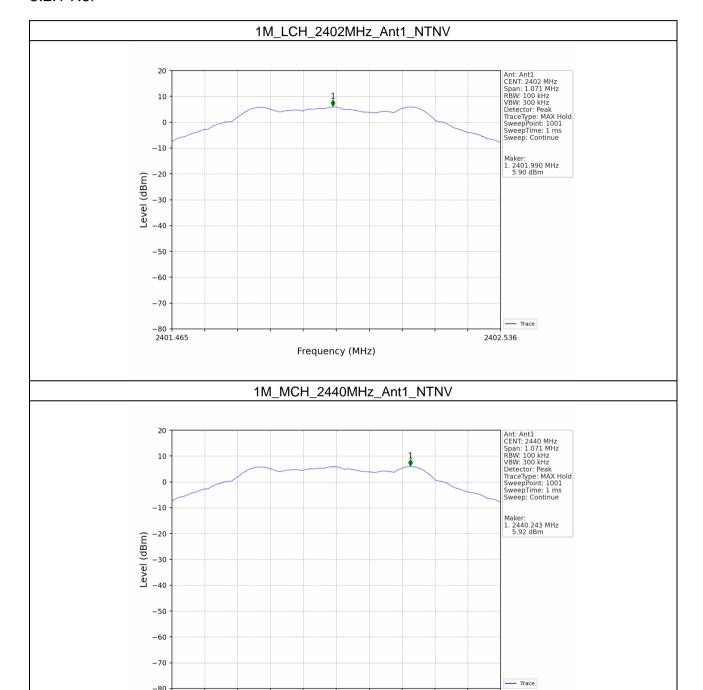
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5.2 Test Graph

5.2.1 Ref





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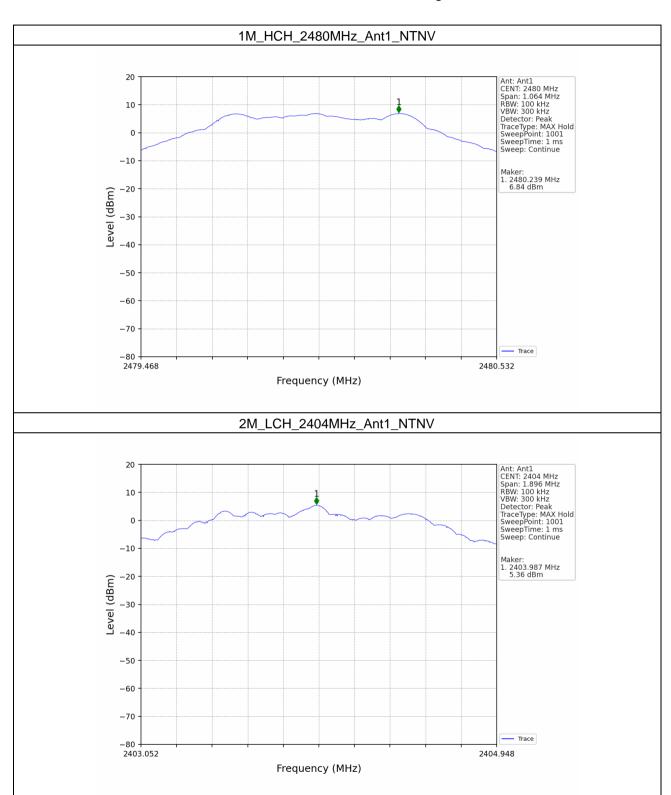
Frequency (MHz)



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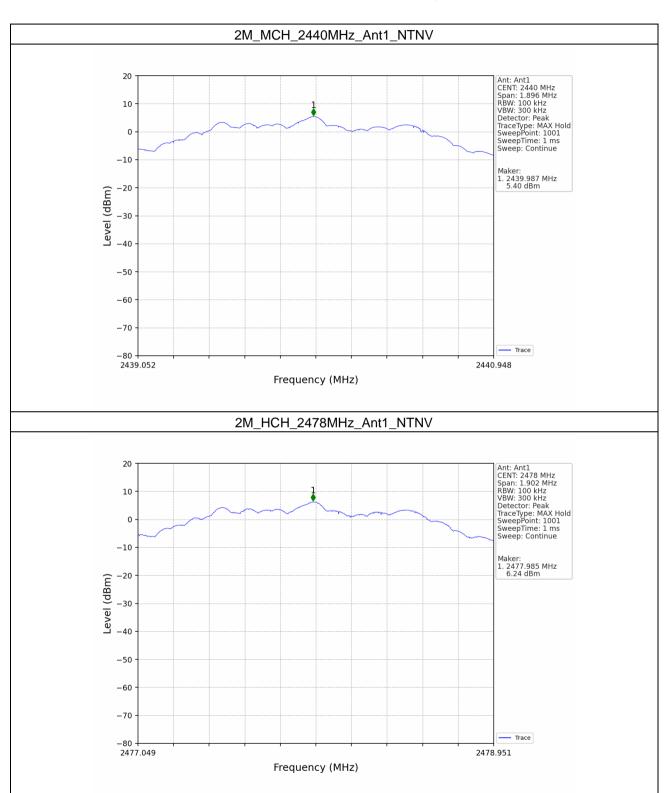
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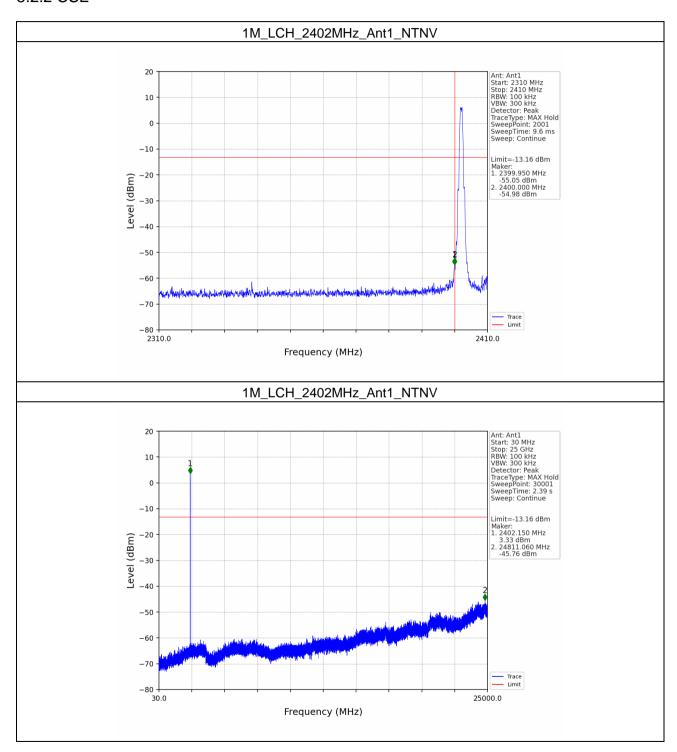


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5.2.2 CSF





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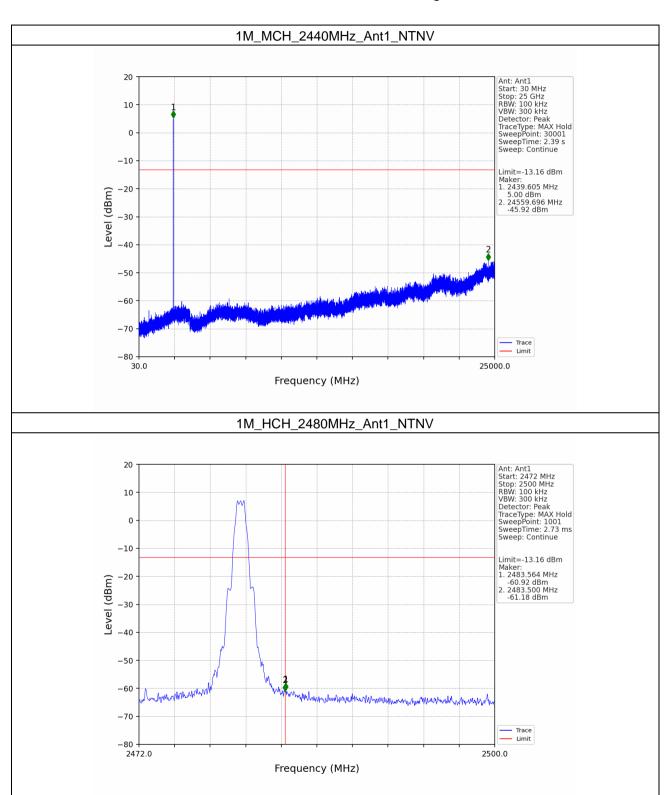
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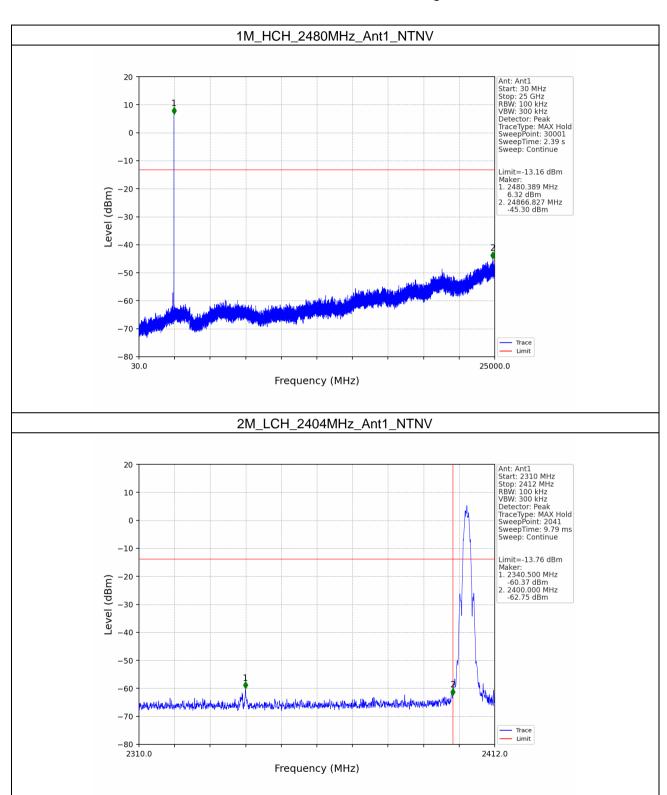
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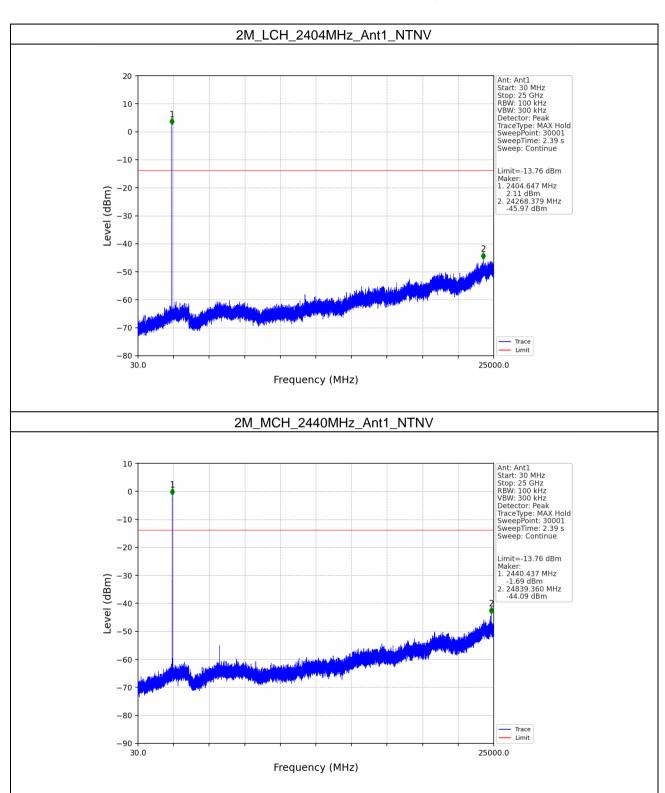
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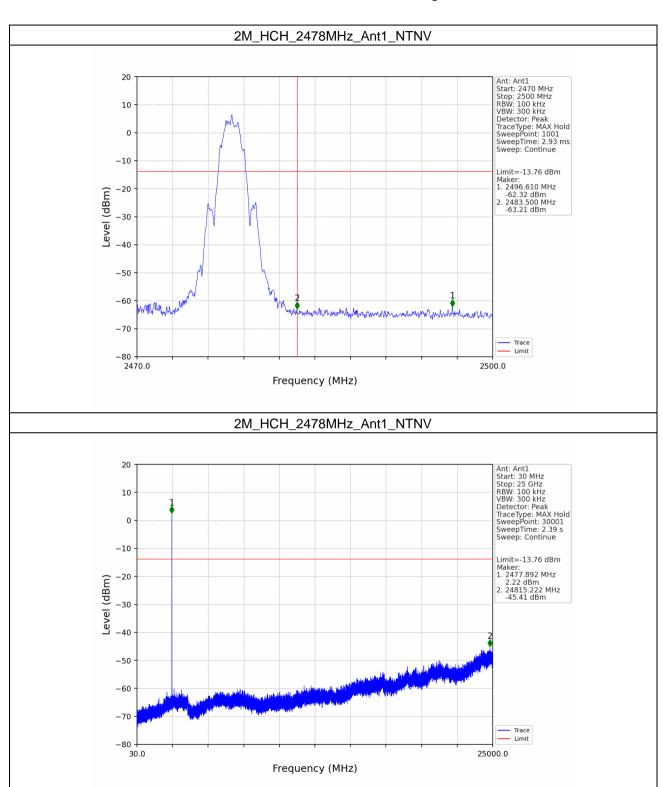
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For left earbud:

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

	Ant1										
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)				
		2402	0.380	0.625	60.80	2.16	0.00				
1M	SISO	2440	0.380	0.625	60.80	2.16	0.00				
		2480	0.380	0.625	60.80	2.16	0.00				
		2404	0.196	0.625	31.36	5.04	0.00				
2M	SISO	2440	0.196	0.625	31.36	5.04	0.00				
		2478	0.195	0.625	31.20	5.06	0.00				



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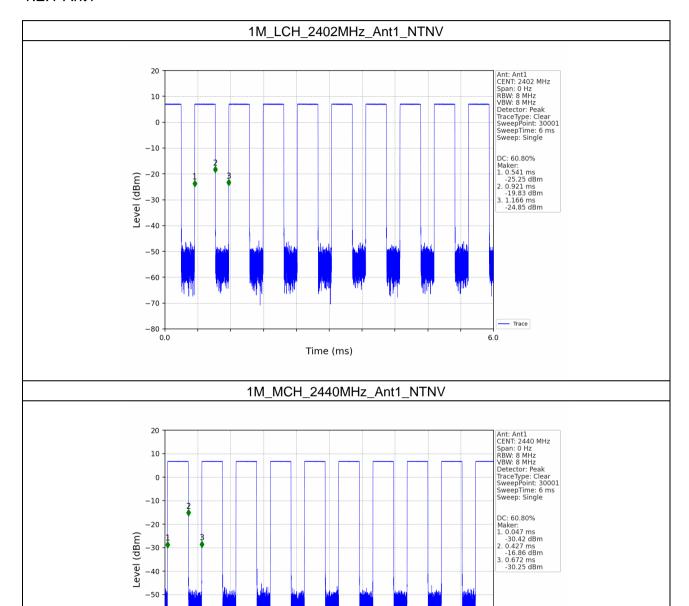
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1.2 Test Graph

1.2.1 Ant1





-60 -70 -80

0.0

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Time (ms)

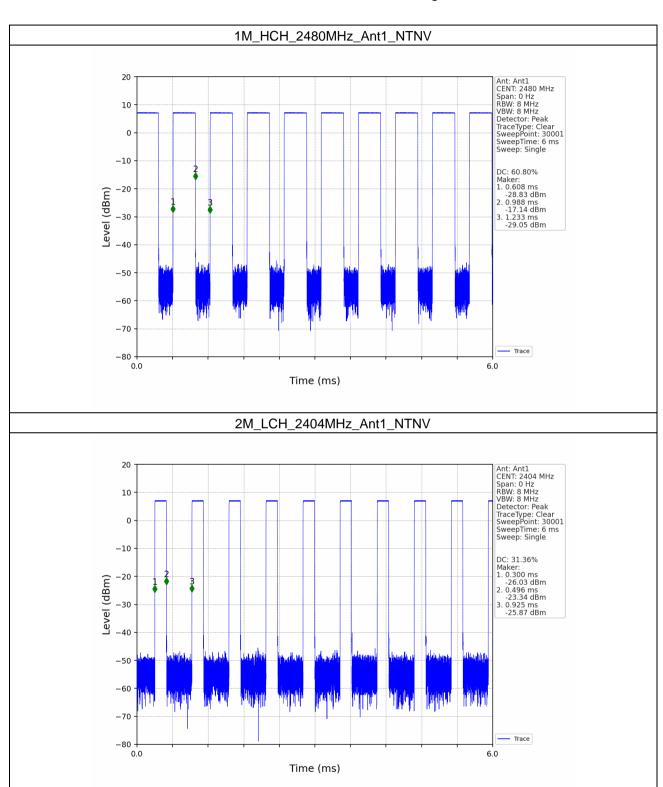
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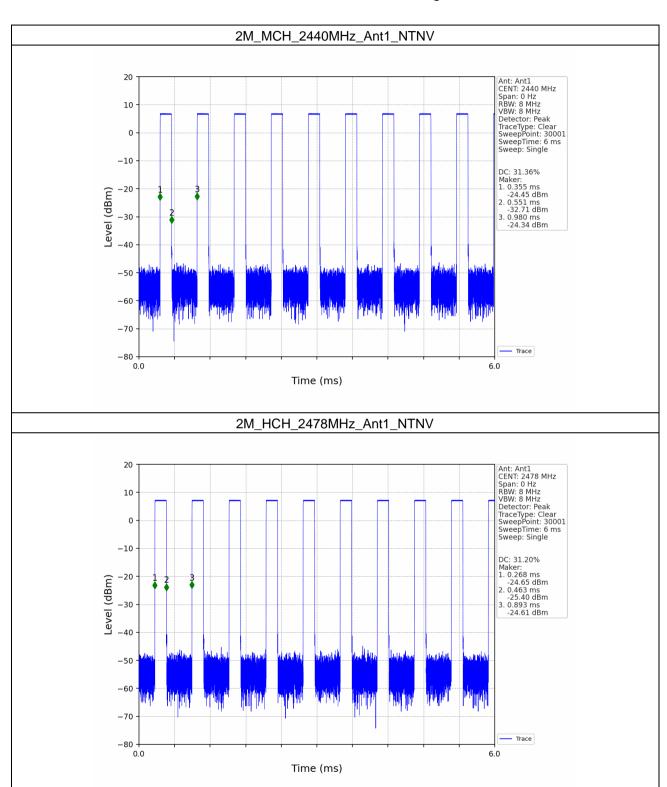
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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mada	TX	Frequency	ANIT	99% Occupied E	Vordict	
Mode	Туре	(MHz)	ANT	Result	Limit	Verdict
		2402	1	1.045	/	Pass
1M	SISO	2440	1	1.045	/	Pass
		2480	1	1.046	/	Pass
		2404	1	2.086	/	Pass
2M	SISO	2440	1	2.086	/	Pass
		2478	1	2.086	/	Pass

2.1.2 6dB BW

Mada	TX	Frequency	ANIT	6dB Bandv	Vardiet	
Mode	Type	(MHz)	ANT	Result	Limit	Verdict
		2402	1	0.716	>=0.5	Pass
1M	SISO	2440	1	0.717	>=0.5	Pass
		2480	1	0.708	>=0.5	Pass
	SISO	2404	1	1.273	>=0.5	Pass
2M		2440	1	1.271	>=0.5	Pass
		2478	1	1.275	>=0.5	Pass



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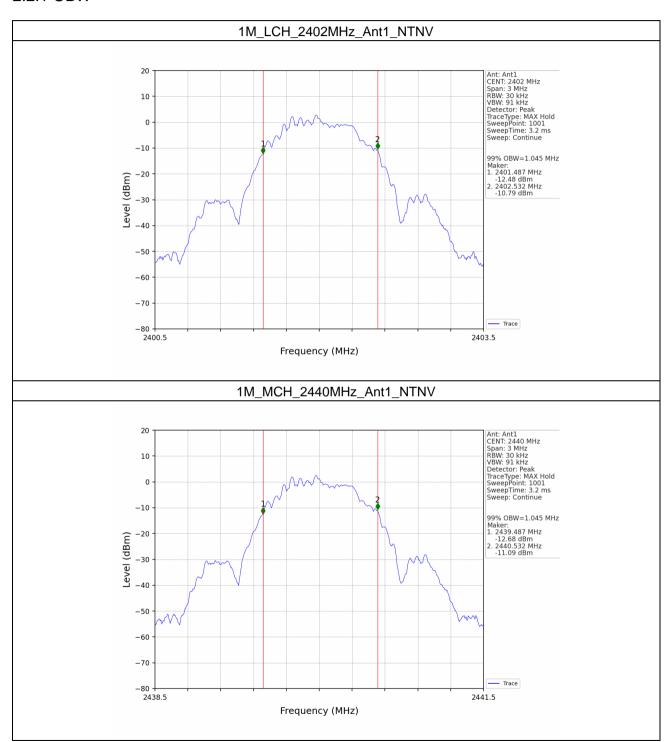
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2.2 Test Graph

2.2.1 OBW





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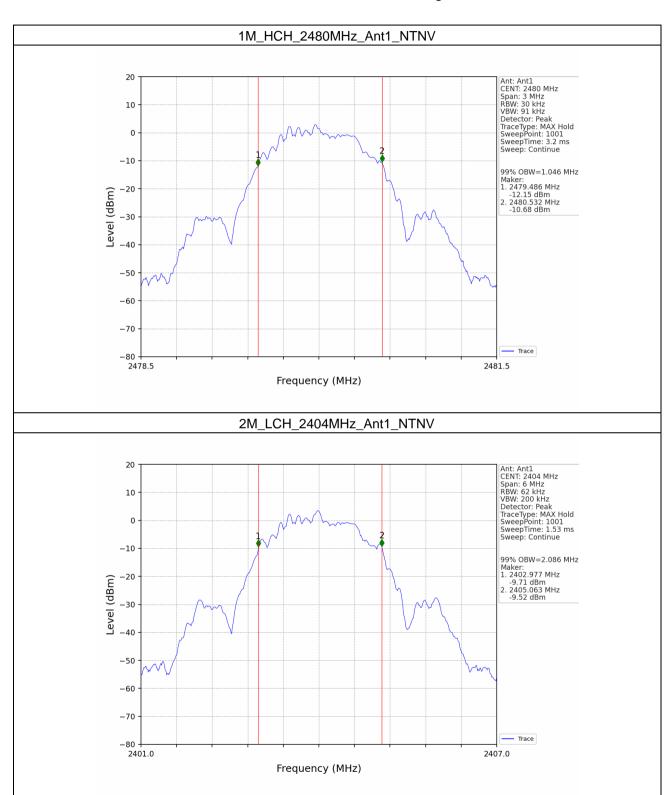
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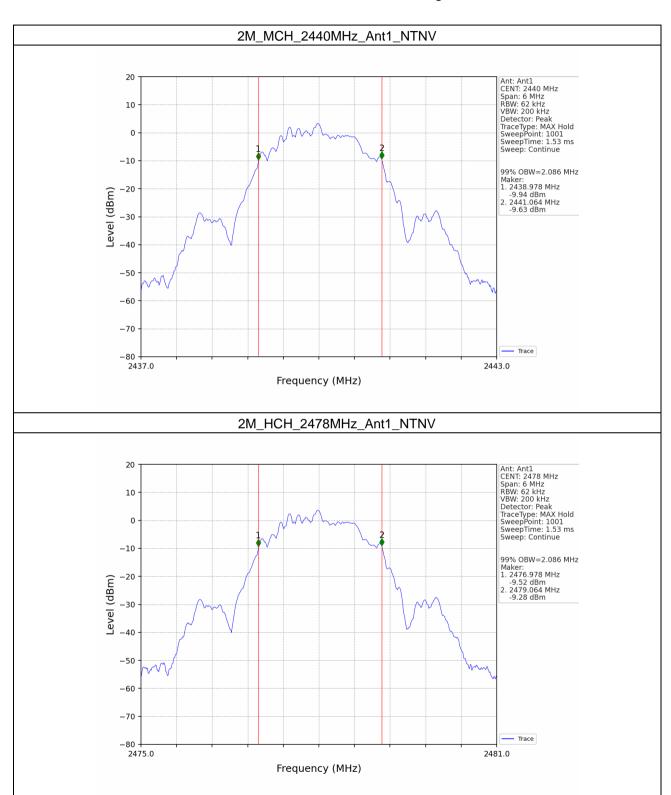
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