

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240900368403

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TEST REPORT

Application No.: SZCR2409003684AT

Applicant: Harman International Industries, Inc

Address of Applicant: 8500 Balboa Boulevard, Northridge, California 91329, United States

Manufacturer: Harman International Industries, Inc

Address of Manufacturer: 8500 Balboa Boulevard, Northridge, California 91329, United States

Equipment Under Test (EUT):

EUT Name: Bluetooth Speaker

Model No.: PARTYBOX ENCORE 2

FCC ID: APIPBENCORE2

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

Date of Receipt: 2024-09-29

Date of Test: 2024-10-15 to 2024-11-14

Date of Issue: 2024-11-20

Test Result: Pass*

Ceny. xu

Keny Xu EMC Laboratory Manager



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



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	Revision Record						
Version	Chapter	Date	Modifier	Remark			
01		2024-11-20		Original			

Authorized for issue by:		
	Benison Wong	
	Benson Wang/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 Emissions at AC Power Line (150kHz-30MHz)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	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	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		
Conducted Peak Output Power		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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4 **General Information**

Details of E.U.T. 4.1

Power supply:	Speaker:
	Powered by AC 100-240V 50/60Hz or Rechargeable battery
	Rechargeable battery 1 with 50G cell: DC 7.2V 4722mAh;
	Rechargeable battery 2 with 50E cell: DC 7.2V 4722mAh;
Cable(s):	AC cable: 202.5cm unshielded
Cable Loss (for RF conducted test):	0.5dBi
Speaker:	
BLE	
Bluetooth Version:	V5.4 Dual mode
Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK
Channel Spacing:	2MHz
Number of Channels:	40
Antenna Type:	PIFA Antenna
Antenna Gain:	2.37dBi
2.4G property	
Operation Frequency:	2404MHz to 2478MHz
Modulation Type:	GFSK
Number of Channels:	37
Channel Spacing:	2MHz
Antenna Type:	PIFA Antenna
Antenna Gain:	2.26dBi

Remark 1: 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.

Remark 2: The EUT can be equipped with two different batteries, the EUT with battery 1 were performed fully tested, the EUT with battery 2 was only performed Radiated Emissions below 1GHz test, only the worst case of EUT with battery 1 was record in the report.



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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
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.1dB
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)
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

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 Emissions at AC Power Line (150kHz-30MHz)						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13	
EMI Test Receiver	Rohde&Schwarz	ESR	SZ-WRG-M- 047	2024-01-30	2025-01-29	
Measurement Software	AUDIX	e3 V8.2014-6- 27a	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM024-01	2024-07-06	2025-07-05	
LISN	Rohde&Schwarz	ENV216	SEM007-01	2024-08-15	2025-08-14	
LISN	ETS-LINDGREN	3816/2	SEM007-02	2024-03-14	2025-03-13	

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 Emis	ssions 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 equipment								
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 BLE:2.37dBi; 2.4G property: 2.26dBi.

Antenna location: Refer to internal photos



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Radio Spectrum Matter Test Results 7

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

47 CFR Part 15, Subpart C 15.207 Test Requirement Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

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

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 45.5 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.
Pre-scan	06	Charge + TX mode(2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.
Pre-scan	12	(Speaker)2.4G property mode (2Mbps)+charge_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.



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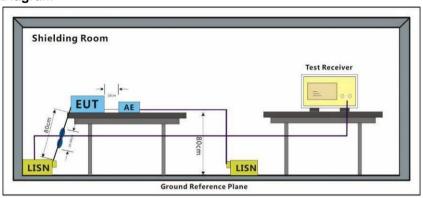


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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

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

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



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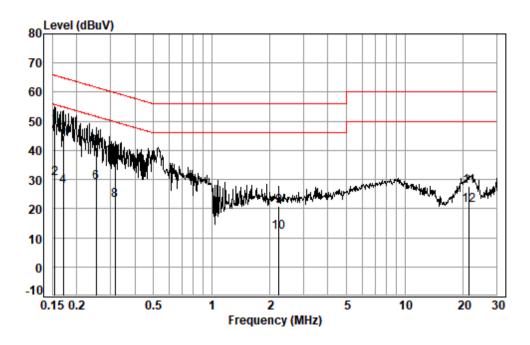


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Test Mode: 05: Line: Live line



: Shielding Room

Condition: Line Job No. : 03684AT

Test mode: 05

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 ,	* 0.1540	0.06	9.81	38.48	48.35	65.78	-17.43	QP
2	0.1540	0.06	9.81	20.56	30.43	55.78	-25.35	Average
3	0.1703	0.06	9.80	35.24	45.10	64.94	-19.84	QP
4	0.1703	0.06	9.80	17.66	27.52	54.94	-27.42	Average
5	0.2521	0.07	9.77	31.29	41.13	61.69	-20.56	QP
6 '	* 0.2521	0.07	9.77	19.22	29.06	51.69	-22.63	Average
7	0.3166	0.07	9.75	25.13	34.95	59.80	-24.85	QP
8	0.3166	0.07	9.75	13.18	23.00	49.80	-26.80	Average
9	2.2249	0.10	9.66	11.02	20.78	56.00	-35.22	QP
10	2.2249	0.10	9.66	2.13	11.89	46.00	-34.11	Average
11	21.6002	0.31	10.20	17.21	27.72	60.00	-32.28	QP
12	21.6002	0.31	10.20	10.78	21.29	50.00	-28.71	Average



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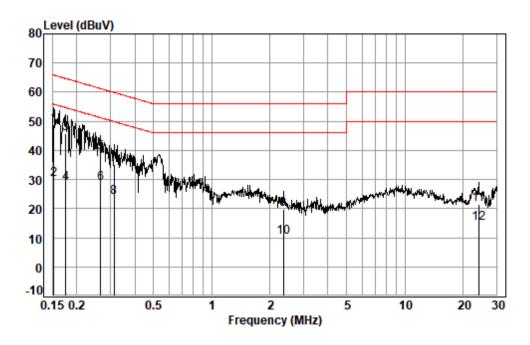


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Test Mode: 05; Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 03684AT

Test mode: 05

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	* 0.1524	0.06	9.82	39.00	48.88	65.87	-16.99	QP
2	0.1524	0.06	9.82	20.31	30.19	55.87	-25.68	Average
3	0.1758	0.06	9.82	36.00	45.88	64.68	-18.80	QP
4	0.1758	0.06	9.82	18.83	28.71	54.68	-25.97	Average
5	0.2658	0.07	9.80	29.38	39.25	61.25	-22.00	QP
6 *	* 0.2658	0.07	9.80	18.87	28.74	51.25	-22.51	Average
7	0.3133	0.07	9.78	25.34	35.19	59.88	-24.69	QP
8	0.3133	0.07	9.78	14.00	23.85	49.88	-26.03	Average
9	2.3585	0.11	9.68	9.95	19.74	56.00	-36.26	QP
10	2.3585	0.11	9.68	0.27	10.06	46.00	-35.94	Average
11	24.1423	0.33	10.35	10.83	21.51	60.00	-38.49	QP
12	24.1423	0.33	10.35	4.34	15.02	50.00	-34.98	Average



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7.2 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

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.

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C Humidity: 56.7 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

	Table 1 doc inicuo de computer.									
Pre-scan / Final test	Mode Code	Description								
Final test	03	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation								
Final test	04	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation								
Final test	11	(Speaker)2.4G property mode (2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation								



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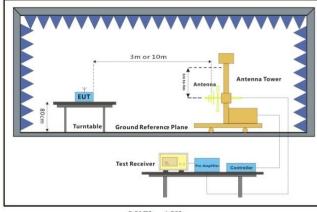
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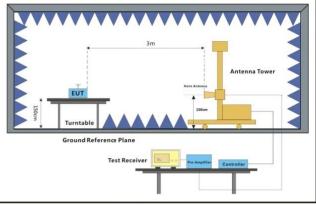


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7.2.3 Test Setup Diagram





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

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



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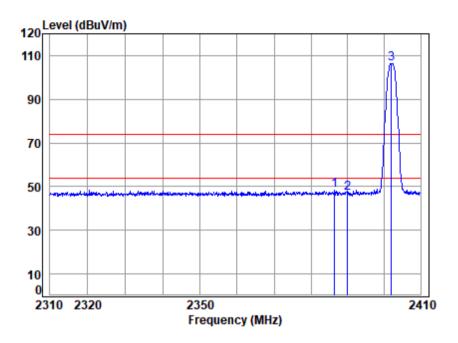


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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Condition: 3m HORIZONTAL Job No : 03684AT/03683AT Mode : 2402 Band edge

: BLE 1M

	Freq					Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2386.421	6.82	27.45	31.54	45.54	48.27	74.00	-25.73	peak
2	2390.000	6.82	27.46	31.54	44.26	47.00	74.00	-27.00	peak
3 рр	2402.000	6.84	27.50	31.54	103.63	106.43	74.00	32.43	peak



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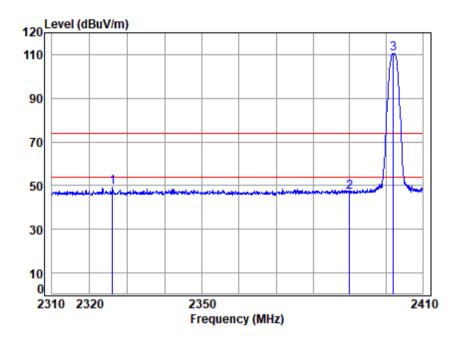


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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL

Job No : 03684AT/03683AT Mode : 2402 Band edge

: BLE 1M

	. 522						Limit		
	Freq							Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2326.111	6.79	27.25	31.53	46.63	49.14	74.00	-24.86	peak
	2390.000	6.82	27.46	31.54	44.48	47.22	74.00	-26.78	peak
nn	2402.000	6.84	27.50	31.54	107.68	110.48	74.00	36.48	neak



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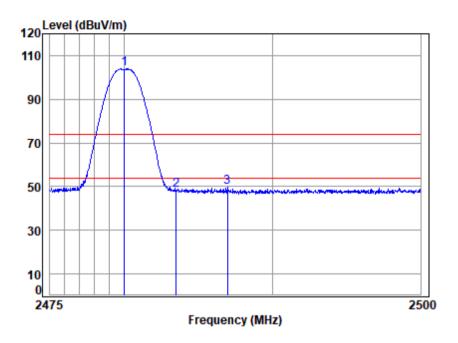


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Report No.: SZCR240900368403

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



Condition: 3m HORIZONTAL Job No : 03684AT/03683AT 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 31.55 100.22 103.82 74.00 29.82 peak 2483.500 7.40 27.80 31.55 44.92 48.57 74.00 -25.43 peak 2486.944 7.42 27.82 31.55 45.96 49.65 74.00 -24.35 peak



2

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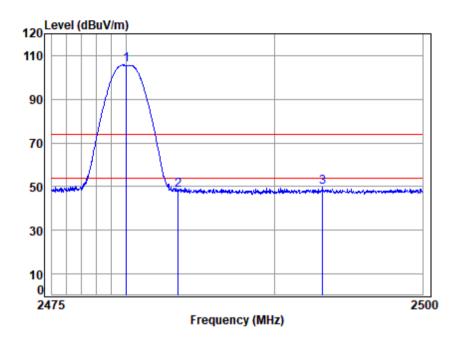


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Report No.: SZCR240900368403

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



Condition: 3m VERTICAL

Job No : 03684AT/03683AT Mode : 2480 Band edge

: BLF 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		
pp	2480.000	7.37	27.78	31.55	102.08	105.68	74.00	31.68	peak	
	2483.500								-	
	2493.225								•	



1 2

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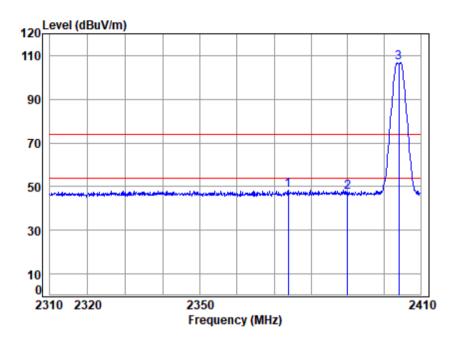


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Report No.: SZCR240900368403

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



Condition: 3m HORIZONTAL Job No : 03684AT/03683AT Mode : 2404 Band edge

BLF 2M

		. DLL	211								
			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		2373.813	6.82	27.40	31.54	45.57	48.25	74.00	-25.75	peak	
2		2390.000	6.82	27.46	31.54	44.62	47.36	74.00	-26.64	peak	
3	gg	2404.000	6.86	27.51	31.54	103.87	106.70	74.00	32.70	peak	



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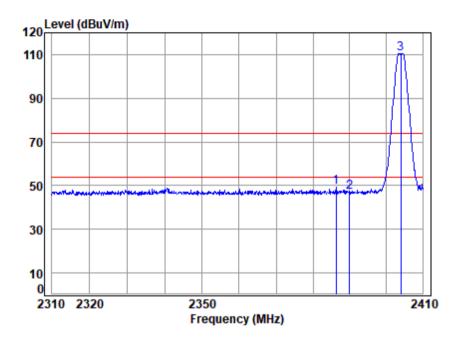


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Report No.: SZCR240900368403

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



Condition: 3m VERTICAL

Job No : 03684AT/03683AT Mode : 2404 Band edge

: BLE 2M

	211								
	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		
2386.320	6.82	27.45	31.54	46.57	49.30	74.00	-24.70	peak	
2390.000	6.82	27.46	31.54	44.15	46.89	74.00	-27.11	peak	
pp 2404.000	6.86	27.51	31.54	107.68	110.51	74.00	36.51	peak	



1 2

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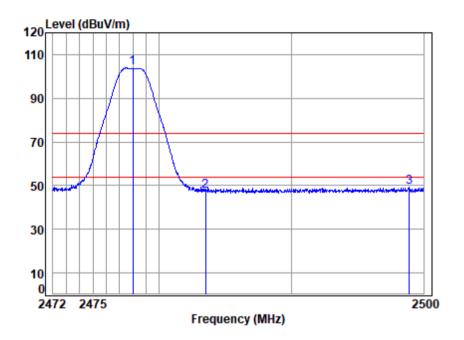


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Report No.: SZCR240900368403

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



Condition: 3m HORIZONTAL Job No : 03684AT/03683AT Mode : 2478 Band edge

: BLF 2M

		211								
		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	2478.000	7.36	27.77	31.55	100.31	103.89	74.00	29.89	peak	
2	2483.500	7.40	27.80	31.55	43.66	47.31	74.00	-26.69	peak	
3	2498.930	7.50	27.89	31.55	45.32	49.16	74.00	-24.84	peak	



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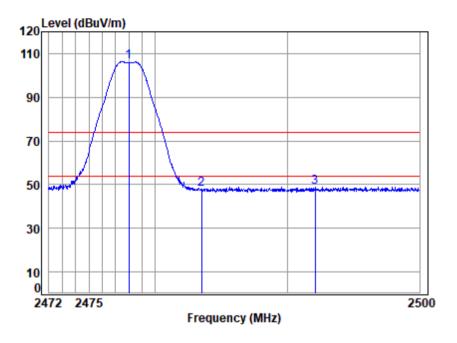


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Report No.: SZCR240900368403

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



Condition: 3m VERTICAL

Job No : 03684AT/03683AT Mode : 2478 Band edge

: BLF 2M

		211								
		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		
pp	2478.000	7.36	27.77	31.55	102.76	106.34	74.00	32.34	peak	
	2483.500	7.40	27.80	31.55	44.05	47.70	74.00	-26.30	peak	
	2492.072	7.46	27.85	31.55	45.25	49.01	74.00	-24.99	peak	



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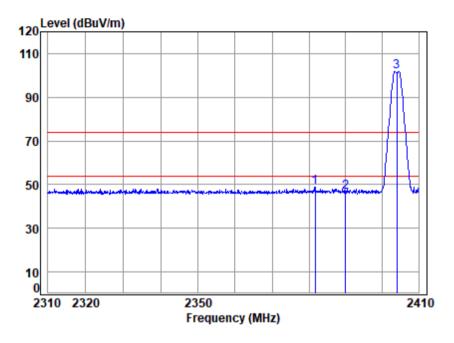


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Report No.: SZCR240900368403

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Test Mode: 11; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Condition: 3m HORIZONTAL Job No : 03684AT/03683AT Mode : 2404 Band edge

: 2.4G

	. 2.7	_								
		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		
	2381.672	6.82	27.43	31.54	46.08	48.79	74.00	-25.21	peak	
	2390.000	6.82	27.46	31.54	43.77	46.51	74.00	-27.49	peak	
pp	2404.000	6.86	27.51	31.54	98.92	101.75	74.00	27.75	peak	



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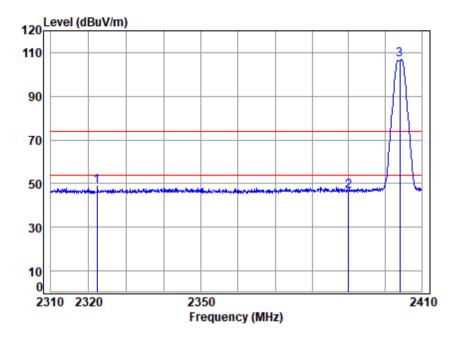


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Report No.: SZCR240900368403

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Test Mode: 11; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL

Job No : 03684AT/03683AT Mode : 2404 Band edge

: 2.4G

	Freq					Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2322.270	6.79	27.24	31.53	46.13	48.63	74.00	-25.37	peak
2	2390.000	6.82	27.46	31.54	43.93	46.67	74.00	-27.33	peak
3 рр	2404.000	6.86	27.51	31.54	103.75	106.58	74.00	32.58	peak



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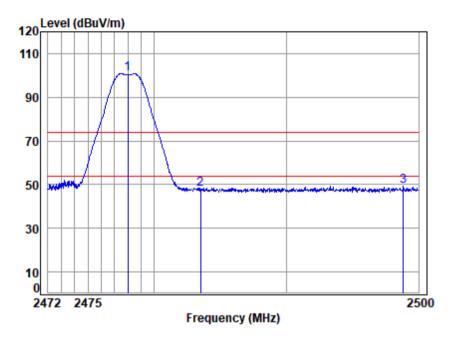


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Test Mode: 11; Polarity: Horizontal; Modulation: GFSK; Channel: High



Condition: 3m HORIZONTAL Job No : 03684AT/03683AT Mode : 2478 Band edge

2 46

	. 2.4	_								
		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	2478.000	7.36	27.77	31.55	97.21	100.79	74.00	26.79	peak	
	2483.500									
	2498.846								•	



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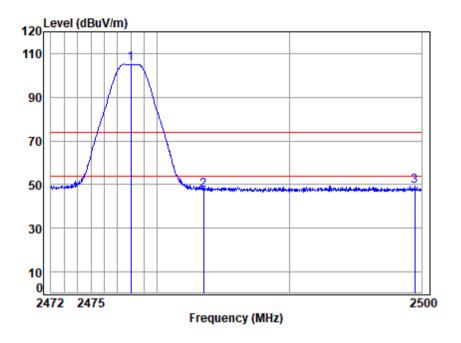


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Report No.: SZCR240900368403

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Test Mode: 11; Polarity: Vertical; Modulation:GFSK; Channel:High



Condition: 3m VERTICAL

Job No : 03684AT/03683AT Mode : 2478 Band edge

: 2.4G

	. 2.4	u							
		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	2478.000	7.36	27.77	31.55	101.61	105.19	74.00	31.19	peak
2	2483.500	7.40	27.80	31.55	43.98	47.63	74.00	-26.37	peak
3	2499.493	7.51	27.90	31.55	45.64	49.50	74.00	-24.50	peak



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7.3 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

7.3.1 E.U.T. Operation

Operating Environment:

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

7.3.2 Test Mode Description

Tion Tool mode Decembrion									
Pre-scan / Final test	Mode Code	Description							
Pre-scan	03	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation							
Pre-scan	04	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation							
Final test	05	Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.							
Pre-scan	06	Charge + TX mode(2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.							
Pre-scan	11	(Speaker)2.4G property mode (2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation							
Final test	12	(Speaker)2.4G property mode (2Mbps)+charge_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.							



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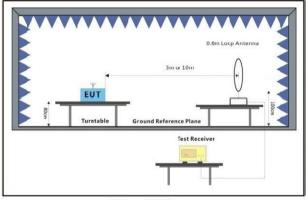
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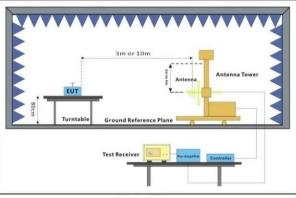


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7.3.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz

7.3.4 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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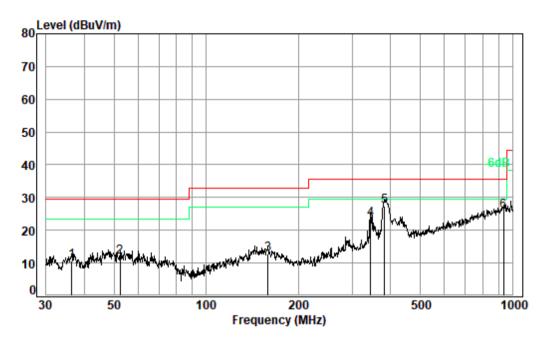


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Test Mode: 05; Polarity: Horizontal



Condition: 10m HORIZONTAL Job No. : 03683AT/03684AT

Test Mode: 05 : 3#

> 3 4 5

		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		
L	36.381	26.07	16.66	0.46	32.50	10.69	29.50	-18.81	QP	
2	52.391	25.48	18.22	0.55	32.49	11.76	29.50	-17.74	QP	
3	159.225	26.45	17.80	0.99	32.40	12.84	33.00	-20.16	QP	
ļ	344.386	35.79	18.47	1.54	32.30	23.50	35.60	-12.10	QP	
рр	382.588	38.65	19.46	1.62	32.30	27.43	35.60	-8.17	QP	
,	935.546	26.48	27.97	2.66	31.33	25.78	35.60	-9.82	OP	



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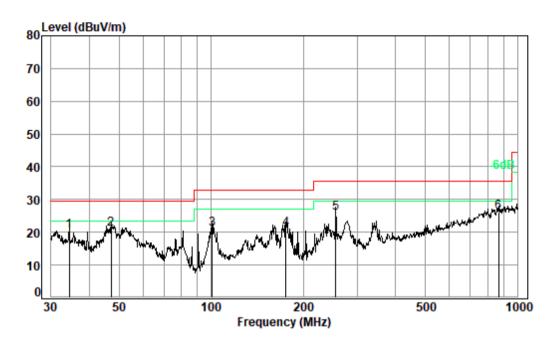


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Test Mode: 05; Polarity: Vertical



Condition: 10m VERTICAL Job No. : 03683AT/03684AT

Test Mode: 05 : 3#

		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	34.396	36.08	16.42	0.45	32.50	20.45	29.50	-9.05	QP
2 pp	47.160	34.99	17.84	0.52	32.50	20.85	29.50	-8.65	QP
3	100.934	39.42	13.31	0.75	32.40	21.08	33.00	-11.92	QP
4	175.652	35.83	16.49	1.05	32.40	20.97	33.00	-12.03	QP
5	255.623	40.81	16.00	1.31	32.34	25.78	35.60	-9.82	QP
6	869.130	27.72	27.28	2.59	31.58	26.01	35.60	-9.59	OP



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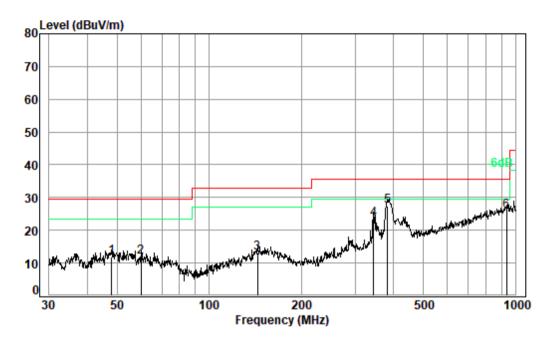


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Test Mode: 12; Polarity: Horizontal



Condition: 10m HORIZONTAL Job No. : 03683AT/03684AT

Test Mode: 12 : 3#

		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		
			47.05							
	4/.994	25.97	17.95	0.53	32.50	11.95	29.50	-1/.55	QР	
2	59.859	26.34	17.32	0.58	32.47	11.77	29.50	-17.73	QP	
}	143.830	27.17	17.44	0.93	32.40	13.14	33.00	-19.86	QP	
ļ	344.386	35.79	18.47	1.54	32.30	23.50	35.60	-12.10	QP	
рр	382.588	38.65	19.46	1.62	32.30	27.43	35.60	-8.17	QP	
,	935.546	26.48	27.97	2.66	31.33	25.78	35.60	-9.82	QP	



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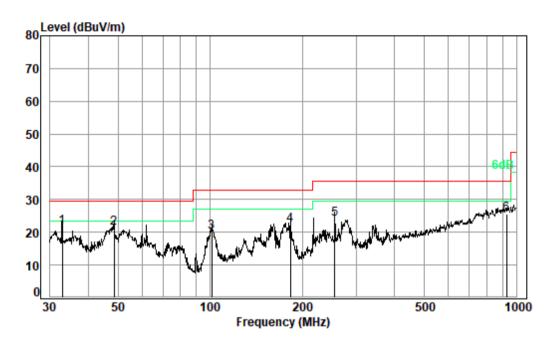


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Test Mode: 12; Polarity: Vertical



Condition: 10m VERTICAL Job No. : 03683AT/03684AT

Test Mode: 12 : 3#

		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 pp	32.864	37.60	16.11	0.44	32.50	21.65	29.50	-7.85	QP	
2	48.502	35.34	18.02	0.53	32.50	21.39	29.50	-8.11	QP	
3	101.289	38.44	13.36	0.76	32.40	20.16	33.00	-12.84	QP	
4	182.559	37.92	15.65	1.08	32.40	22.25	33.00	-10.75	QP	
5	255.623	39.06	16.00	1.31	32.34	24.03	35.60	-11.57	QP	
6	929.008	26.20	27.89	2.66	31.34	25.41	35.60	-10.19	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: 05:

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
36.381	10.69	3.42	11.41	21.15	40.00	-18.85	Н
52.391	11.76	3.87	12.91	22.22	40.00	-17.78	Н
159.225	12.84	4.39	14.62	23.30	43.50	-20.20	Н
344.386	23.5	14.96	49.87	33.96	46.00	-12.04	Н
382.588	27.43	23.52	78.41	37.89	46.00	-8.11	Н
935.546	25.78	19.45	64.85	36.24	46.00	-9.76	Н
34.396	20.45	10.53	35.11	30.91	40.00	-9.09	V
47.16	20.85	11.03	36.76	31.31	40.00	-8.69	V
100.934	21.08	11.32	37.75	31.54	43.50	-11.96	V
175.652	20.97	11.18	37.27	31.43	43.50	-12.07	V
255.623	25.78	19.45	64.85	36.24	46.00	-9.76	V
869.13	26.01	19.98	66.59	36.47	46.00	-9.53	V



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Test Mode: 12:

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
47.994	11.95	3.96	13.19	22.41	40.00	-17.59	Н
58.589	11.77	3.88	12.92	22.23	40.00	-17.77	Н
143.83	13.14	4.54	15.13	23.60	43.50	-19.90	Н
344.386	23.5	14.96	49.87	33.96	46.00	-12.04	Н
382.588	27.43	23.52	78.41	37.89	46.00	-8.11	Н
935.546	25.78	19.45	64.85	36.24	46.00	-9.76	Н
32.864	21.65	12.09	40.31	32.11	40.00	-7.89	V
48.502	21.39	11.74	39.12	31.85	40.00	-8.15	V
101.289	20.16	10.19	33.95	30.62	43.50	-12.88	V
182.559	22.25	12.96	43.19	32.71	43.50	-10.79	V
255.623	24.03	15.90	53.01	34.49	46.00	-11.51	V
929.008	25.41	18.64	62.14	35.87	46.00	-10.13	V



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7.4 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

7.4.1 E.U.T. Operation

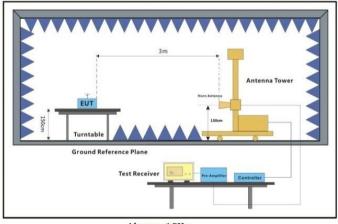
Operating Environment:

23.7 °C Temperature: Humidity: 58.5 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	04	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	11	(Speaker)2.4G property mode (2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation

7.4.3 Test Setup Diagram



Above 1GHz



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7.4.4 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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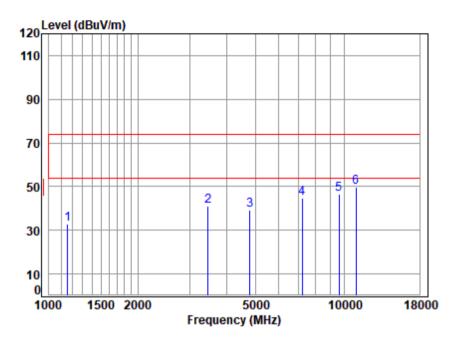


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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Condition: 3m HORIZONTAL Job No : 03684AT/03683AT

Mode : 2402 TX RSE

: BLE 1M

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1155.483	7.15	25.39	54.70	55.03	32.87	74.00	-41.13	peak
2	3465.510	7.70	29.46	55.28	59.37	41.25	74.00	-32.75	peak
3	4804.000	8.90	31.92	56.16	54.61	39.27	74.00	-34.73	peak
4	7206.000	11.10	36.60	56.54	53.45	44.61	74.00	-29.39	peak
5	9608.000	12.38	38.78	54.45	49.73	46.44	74.00	-27.56	peak
6	pp10980.470								



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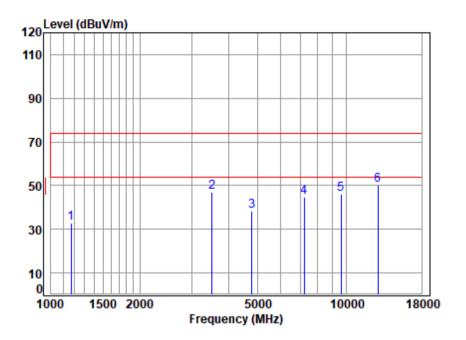


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Report No.: SZCR240900368403

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



Condition: 3m VERTICAL

Job No : 03684AT/03683AT

Mode : 2402 TX RSE

: 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	
4	1160 020	7.10	25.26	E4 70	FF 06	22.00	74.00	44 42	
1	1168.920	7.16	25.36	54.70	55.00	32.88	74.00	-41.12	реак
2	3515.957	7.73	29.66	55.31	64.84	46.92	74.00	-27.08	peak
3	4804.000	8.90	31.92	56.16	53.76	38.42	74.00	-35.58	peak
4	7206.000	11.10	36.60	56.54	53.52	44.68	74.00	-29.32	peak
5	9608.000	12.38	38.78	54.45	49.56	46.27	74.00	-27.73	peak
6	pp12798.240	15.15	40.30	54.36	48.93	50.02	74.00	-23.98	peak



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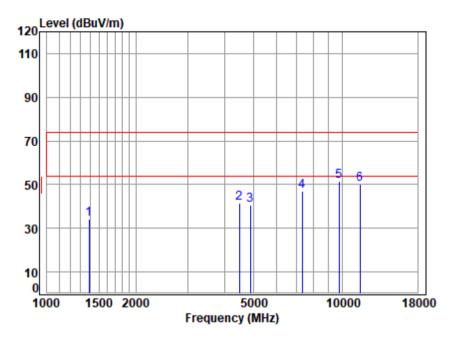


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Report No.: SZCR240900368403

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



Condition: 3m HORIZONTAL Job No : 03684AT/03683AT

Mode : 2440 TX RSE

: BLE 1M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dВ	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1390.276	7.20	25.02	54.70	56.59	34.11	74.00	-39.89	peak
2									•
3	4880.000	8.98	32.16	56.22	55.76	40.68	74.00	-33.32	peak
4	7320.000	11.12	36.74	56.44	55.79	47.21	74.00	-26.79	peak
5	pp 9760.000	12.84	38.60	54.32	54.41	51.53	74.00	-22.47	peak
6	11467.000	14.19	39.63	53.64	50.19	50.37	74.00	-23.63	peak



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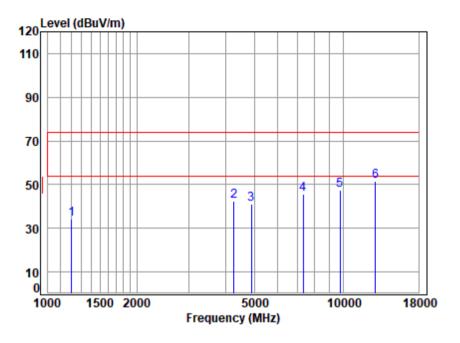


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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:middle



Condition: 3m VERTICAL

Job No : 03684AT/03683AT

Mode : 2440 TX RSE

: 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	1203.199	7.19	25.30	54.70	56.47	34.26	74.00	-39.74	peak
2	4267.237	8.47	31.17	55.79	58.79	42.64	74.00	-31.36	peak
3	4880.000	8.98	32.16	56.22	56.36	41.28	74.00	-32.72	peak
4	7320.000	11.12	36.74	56.44	54.34	45.76	74.00	-28.24	peak
5	9760.000	12.84	38.60	54.32	50.43	47.55	74.00	-26.45	peak
6	pp12872.440	15.22	40.37	54.41	50.22	51.40	74.00	-22.60	peak



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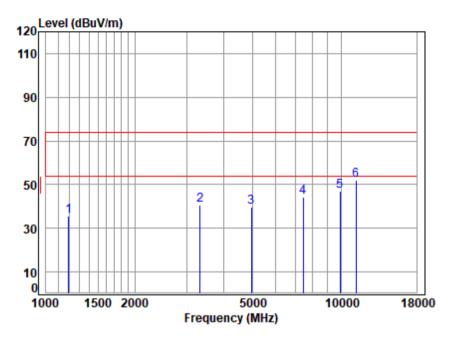


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Test Mode: 03; Polarity: Horizontal; Modulation: GFSK; Channel: High



Condition: 3m HORIZONTAL Job No : 03684AT/03683AT Mode : 2480 TX RSE

: BLE 1M

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1192.811	7.18	25.31	54.70	57.64	35.43	74.00	-38.57	peak
2	3328.077	7.60	29.20	55.20	58.89	40.49	74.00	-33.51	peak
3	4960.000	9.07	32.20	56.27	54.80	39.80	74.00	-34.20	peak
4	7440.000	11.08	36.78	56.35	52.85	44.36	74.00	-29.64	peak
5	9920.000	12.73	38.90	54.17	49.37	46.83	74.00	-27.17	peak
6	pp11204.900	14.25	39.60	53.56	51.91	52.20	74.00	-21.80	peak



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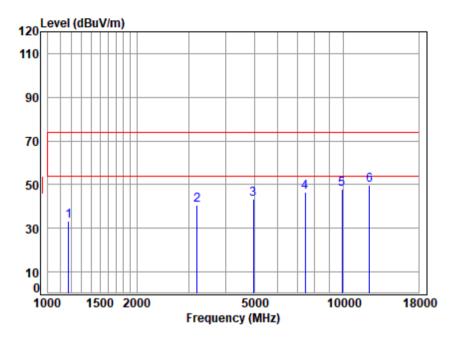


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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:High



Condition: 3m VERTICAL

Job No : 03684AT/03683AT

Mode : 2480 TX RSE

: 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	
	4475 607	- 4-	05.35	F.4. 70		22.50	74.00	40.50	
1	1175.697	/.1/	25.35	54.70	55.68	33.50	74.00	-40.50	peak
2	3196.094	7.70	29.20	55.12	58.85	40.63	74.00	-33.37	peak
3	4960.000	9.07	32.20	56.27	58.13	43.13	74.00	-30.87	peak
4	7440.000	11.08	36.78	56.35	55.19	46.70	74.00	-27.30	peak
5	9920.000	12.73	38.90	54.17	50.37	47.83	74.00	-26.17	peak
6	pp12255.220	14.61	39.84	53.98	49.46	49.93	74.00	-24.07	peak



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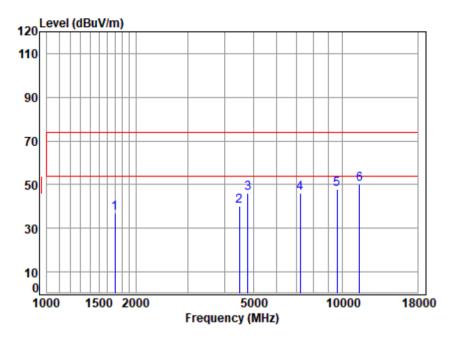


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Report No.: SZCR240900368403

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



Condition: 3m HORIZONTAL Job No : 03684AT/03683AT

Mode : 2402 TX RSE

: 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	1702.042	7.20	25.11	54.70	59.45	37.06	74.00	-36.94	peak
2	4482.150	8.56	31.53	55.94	55.98	40.13	74.00	-33.87	peak
3	4804.000	8.90	31.92	56.16	61.55	46.21	74.00	-27.79	peak
4	7206.000	11.10	36.60	56.54	54.99	46.15	74.00	-27.85	peak
5	9608.000	12.38	38.78	54.45	51.36	48.07	74.00	-25.93	peak
6	pp11433.910	14.14	39.67	53.63	50.03	50.21	74.00	-23.79	peak



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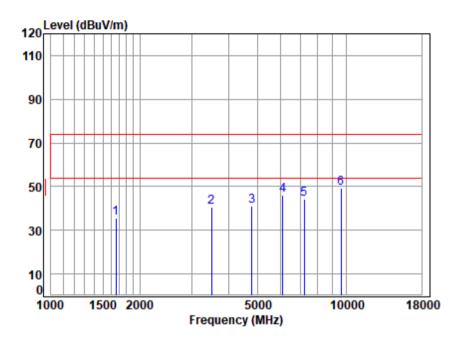


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Report No.: SZCR240900368403

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



Condition: 3m VERTICAL

Job No : 03684AT/03683AT

Mode : 2402 TX RSE

: BLE 2M

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1663.137	7.16	25.03	54.70	58.25	35.74	74.00	-38.26	peak
2		3505.809	7.73	29.62	55.30	58.63	40.68	74.00	-33.32	peak
3		4804.000	8.90	31.92	56.16	56.55	41.21	74.00	-32.79	peak
4		6106.616	10.36	33.77	56.88	59.05	46.30	74.00	-27.70	Peak
5		7206.000	11.10	36.60	56.54	52.99	44.15	74.00	-29.85	peak
6	pp	9608.000	12.38	38.78	54.45	52.36	49.07	74.00	-24.93	peak



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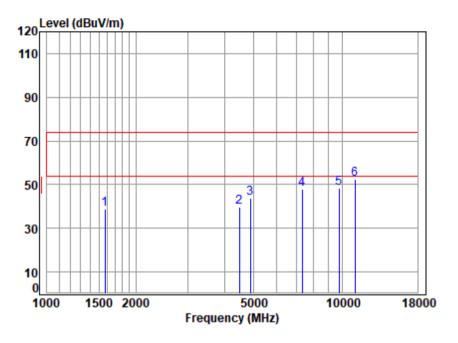


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Test Mode: 04; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Condition: 3m HORIZONTAL Job No : 03684AT/03683AT Mode : 2440 TX RSE

: 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	
	1574.265	7.13	25.05	54.70	61.37	38.85	74.00	-35.15	peak
	4495.125	8.56	31.58	55.95	55.59	39.78	74.00	-34.22	peak
,	4880.000	8.98	32.16	56.22	59.00	43.92	74.00	-30.08	peak
ļ	7320.000	11.12	36.74	56.44	56.62	48.04	74.00	-25.96	peak
,	9760.000	12.84	38.60	54.32	51.44	48.56	74.00	-25.44	peak
	nn11044 130								•



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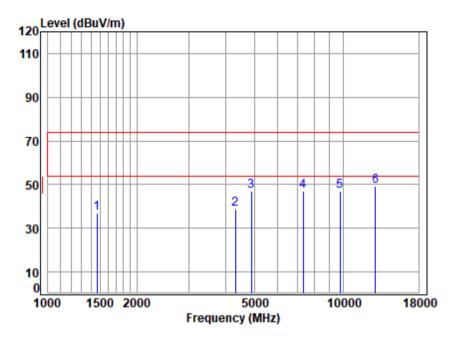


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Test Mode: 04; Polarity: Vertical; Modulation:GFSK; Channel:middle



Condition: 3m VERTICAL

Job No : 03684AT/03683AT

Mode : 2440 TX RSE

: 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	1464 522	7 22	25.04	E4 70	EO 49	27.04	74.00	36.06	
1	1464.522	1.22	25.04	54.70	59.48	37.04	74.00	-36.96	реак
2	4316.859	8.47	31.30	55.82	54.86	38.81	74.00	-35.19	peak
3	4880.000	8.98	32.16	56.22	62.13	47.05	74.00	-26.95	peak
4	7320.000	11.12	36.74	56.44	55.62	47.04	74.00	-26.96	peak
5	9760.000	12.84	38.60	54.32	49.79	46.91	74.00	-27.09	peak
6	pp12872.440	15.22	40.37	54.41	47.90	49.08	74.00	-24.92	peak



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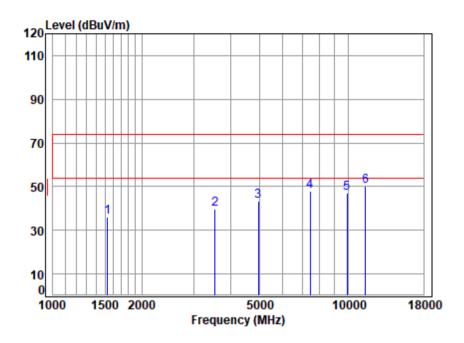


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Test Mode: 04; Polarity: Horizontal; Modulation: GFSK; Channel: High



Condition: 3m HORIZONTAL Job No : 03684AT/03683AT

Mode : 2480 TX RSE

: 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	4520 444	7 10	24.00	F4 70	EO E4	35 00	74.00	20.02	I-
1	1529.414	/.18	24.96	54.70	58.54	35.98	74.00	-38.02	реак
2	3536.341	7.74	29.75	55.32	57.52	39.69	74.00	-34.31	peak
3	4960.000	9.07	32.20	56.27	58.44	43.44	74.00	-30.56	peak
4	7440.000	11.08	36.78	56.35	56.50	48.01	74.00	-25.99	peak
5	9920.000	12.73	38.90	54.17	49.36	46.82	74.00	-27.18	peak
6	pp11433.910	14.14	39.67	53.63	50.20	50.38	74.00	-23.62	peak



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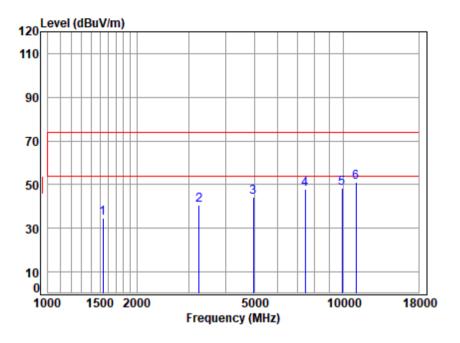


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Test Mode: 04; Polarity: Vertical; Modulation:GFSK; Channel:High



Condition: 3m VERTICAL

Job No : 03684AT/03683AT

Mode : 2480 TX RSE

: BLE 2M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
						ID 1//	ID 1//		
	MHz	ав	aB/m	dB	aBuv	aBuv/m	aBuv/m	dB	
1	1533.841	7.18	24.97	54.70	57.18	34.63	74.00	-39.37	peak
2	3252.005	7.64	29.30	55.15	58.67	40.46	74.00	-33.54	peak
3	4960.000	9.07	32.20	56.27	59.42	44.42	74.00	-29.58	peak
4	7440.000	11.08	36.78	56.35	56.26	47.77	74.00	-26.23	peak
5	9920.000	12.73	38.90	54.17	50.92	48.38	74.00	-25.62	peak
6	pp11044.130	14.18	39.44	53.51	51.12	51.23	74.00	-22.77	peak



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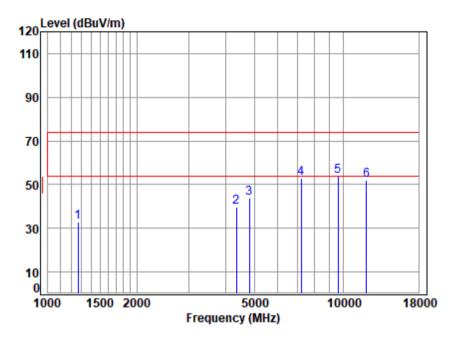


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Test Mode: 11; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Condition: 3m HORIZONTAL Job No : 03684AT/03683AT Mode TX RSE : 2404

: 2.4G

		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	1263.796	7.16	25.27	54.70	55.19	32.92	74.00	-41.08	peak
2	4354.454	8.50	31.29	55.85	55.79	39.73	74.00	-34.27	peak
3	4808.000	8.91	31.93	56.17	59.28	43.95	74.00	-30.05	peak
4	7212.000	11.10	36.60	56.53	61.54	52.71	74.00	-21.29	peak
5	pp 9616.000	12.40	38.77	54.45	56.93	53.65	74.00	-20.35	peak
6	12009.760	14.35	39.79	53.81	51.58	51.91	74.00	-22.09	peak



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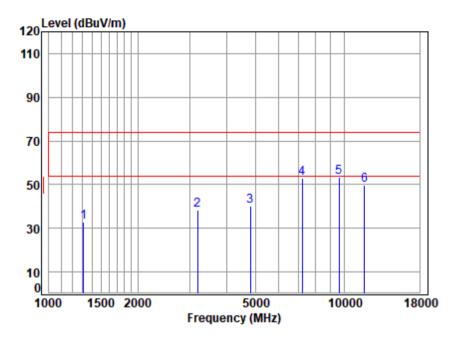


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Test Mode: 11; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL

Job No : 03684AT/03683AT Mode TX RSE : 2404

: 2.4G

	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	
1312.187	7.16	25.18	54.70	55.37	33.01	74.00	-40.99	peak
3186.869	7.70	29.20	55.11	56.75	38.54	74.00	-35.46	Peak
4808.000	8.91	31.93	56.17	55.29	39.96	74.00	-34.04	peak
7212.000	11.10	36.60	56.53	61.59	52.76	74.00	-21.24	peak
pp 9616.000	12.40	38.77	54.45	56.84	53.56	74.00	-20.44	peak
11735.250	14.46	39.54	53.72	49.25	49.53	74.00	-24.47	peak
	MHz 1312.187 3186.869 4808.000 7212.000 pp 9616.000	Freq Loss MHz dB 1312.187 7.16 3186.869 7.70 4808.000 8.91 7212.000 11.10 pp 9616.000 12.40	Freq Loss Factor MHz dB dB/m 1312.187 7.16 25.18 3186.869 7.70 29.20 4808.000 8.91 31.93 7212.000 11.10 36.60 pp 9616.000 12.40 38.77	Freq Loss Factor Factor MHz dB dB/m dB 1312.187 7.16 25.18 54.70 3186.869 7.70 29.20 55.11 4808.000 8.91 31.93 56.17 7212.000 11.10 36.60 56.53 pp 9616.000 12.40 38.77 54.45	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 1312.187 7.16 25.18 54.70 55.37 3186.869 7.70 29.20 55.11 56.75 4808.000 8.91 31.93 56.17 55.29 7212.000 11.10 36.60 56.53 61.59 pp 9616.000 12.40 38.77 54.45 56.84	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 1312.187 7.16 25.18 54.70 55.37 33.01 3186.869 7.70 29.20 55.11 56.75 38.54 4808.000 8.91 31.93 56.17 55.29 39.96 7212.000 11.10 36.60 56.53 61.59 52.76 pp 9616.000 12.40 38.77 54.45 56.84 53.56	Freq Loss Factor Factor Level Level Line MHz dB dB/m Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 1312.187 7.16 25.18 54.70 55.37 33.01 74.00 3186.869 7.70 29.20 55.11 56.75 38.54 74.00 4808.000 8.91 31.93 56.17 55.29 39.96 74.00 7212.000 11.10 36.60 56.53 61.59 52.76 74.00 pp 9616.000 12.40 38.77 54.45 56.84 53.56 74.00	1312.187 7.16 25.18 54.70 55.37 33.01 74.00 -40.99 3186.869 7.70 29.20 55.11 56.75 38.54 74.00 -35.46



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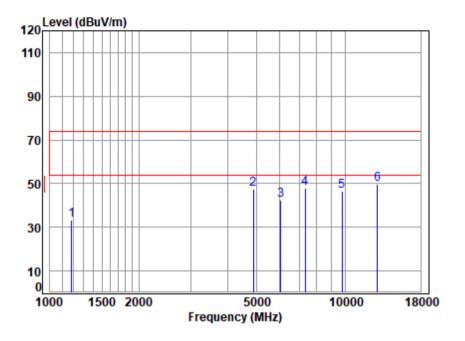


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Test Mode: 11; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Condition: 3m HORIZONTAL Job No : 03684AT/03683AT Mode TX RSE : 2440

: 2.4G

		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	1185.936	7.18	25.33	54.70	55.40	33.21	74.00	-40.79	peak
2	4880.000	8.98	32.16	56.22	62.34	47.26	74.00	-26.74	peak
3	6053.894	10.21	33.88	56.89	55.28	42.48	74.00	-31.52	Peak
4	7320.000	11.12	36.74	56.44	56.64	48.06	74.00	-25.94	peak
5	9760.000	12.84	38.60	54.32	49.38	46.50	74.00	-27.50	peak
6	pp12872.440	15.22	40.37	54.41	48.49	49.67	74.00	-24.33	peak



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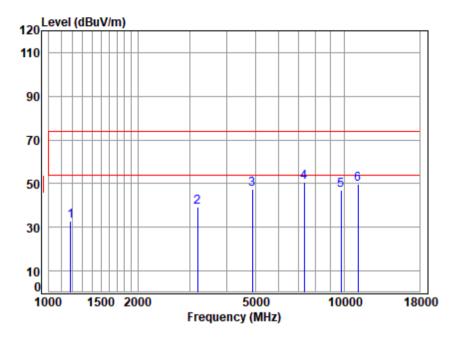


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Test Mode: 11; Polarity: Vertical; Modulation:GFSK; Channel:middle



Condition: 3m VERTICAL

Job No : 03684AT/03683AT TX RSE Mode : 2440

: 2.4G

		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	1185.936	7.18	25.33	54.70	54.91	32.72	74.00	-41.28	peak	
2	3186.869	7.70	29.20	55.11	57.29	39.08	74.00	-34.92	Peak	
3	4880.000	8.98	32.16	56.22	62.64	47.56	74.00	-26.44	peak	
4	pp 7320.000	11.12	36.74	56.44	59.43	50.85	74.00	-23.15	peak	
5	9760.000	12.84	38.60	54.32	49.70	46.82	74.00	-27.18	peak	
6	11140.310	14.17	39.54	53.54	49.43	49.60	74.00	-24.40	peak	



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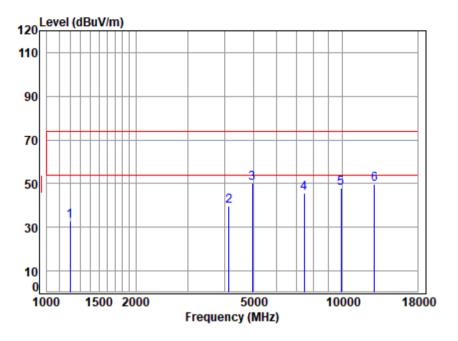


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Test Mode: 11; Polarity: Horizontal; Modulation: GFSK; Channel: High



Condition: 3m HORIZONTAL Job No : 03684AT/03683AT Mode : 2478 TX RSE

: 2.4G

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1196.264	7.19	25.31	54.70	55.13	32.93	74.00	-41.07	peak
2	4133.699	8.41	30.47	55.69	56.46	39.65	74.00	-34.35	peak
3	pp 4956.000	9.06	32.20	56.27	64.98	49.97	74.00	-24.03	peak
4	7434.000	11.09	36.77	56.35	54.30	45.81	74.00	-28.19	peak
5	9912.000	12.71	38.90	54.18	50.40	47.83	74.00	-26.17	peak
6	12872.440	15.22	40.37	54.41	48.53	49.71	74.00	-24.29	peak



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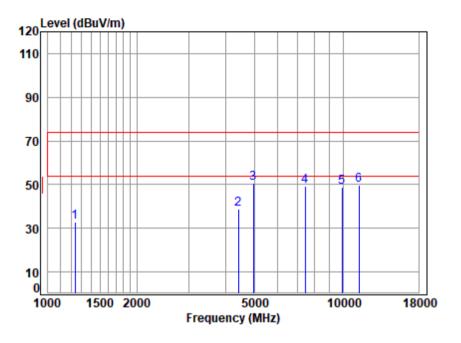


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Test Mode: 11; Polarity: Vertical; Modulation:GFSK; Channel:High



Condition: 3m VERTICAL

Job No : 03684AT/03683AT

Mode : 2478 TX RSE

: 2.4G

		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	1234.909	7.18	25.30	54.70	55.04	32.82	74.00	-41.18	peak
2	4417.841	8.54	31.27	55.89	54.94	38.86	74.00	-35.14	peak
3	pp 4956.000	9.06	32.20	56.27	65.67	50.66	74.00	-23.34	peak
4	7434.000	11.09	36.77	56.35	57.90	49.41	74.00	-24.59	peak
5	9912.000	12.71	38.90	54.18	51.52	48.95	74.00	-25.05	peak
6	11302.480	14.39	39.70	53.59	49.11	49.61	74.00	-24.39	peak



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7.5 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

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C Humidity: 37.6 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description								
Final test	03	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation								
Final test	04	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation								
Final test	11	(Speaker)2.4G property mode (2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation								



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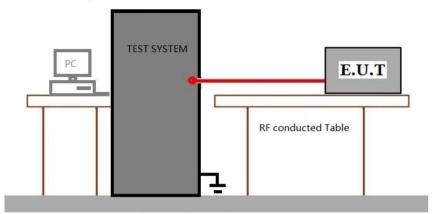


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7.5.3 Test Setup Diagram



Ground Reference Plane

7.5.4 Measurement Procedure and Data

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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7.6 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

7.6.1 E.U.T. Operation

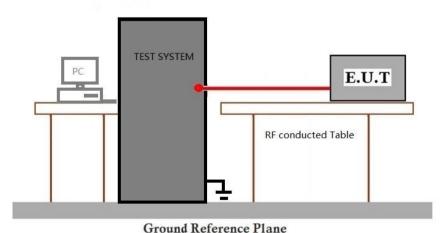
Operating Environment:

Atmospheric Pressure: 1020 mbar Temperature: 24.9 °C Humidity: 37.6 % RH

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description							
Final test	03	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation							
Final test	04	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation							
Final test	11	(Speaker)2.4G property mode (2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation							

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.7 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

7.7.1 E.U.T. Operation

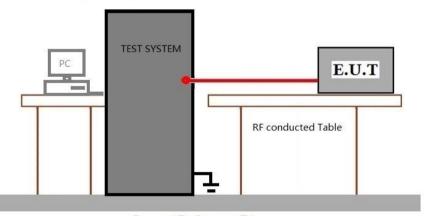
Operating Environment:

Atmospheric Pressure: 1020 mbar Temperature: 24.9 °C Humidity: 37.6 % RH

7.7.2 Test Mode Description

This root mede becompained							
Pre-scan / Final test	Mode Code	Description					
Final test	03	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation					
Final test	04	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation					
Final test	11	(Speaker)2.4G property mode (2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation					

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 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).

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C Humidity: 37.6 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description					
Final test	03	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation					
Final test	04	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation					
Final test	11	(Speaker)2.4G property mode (2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation					



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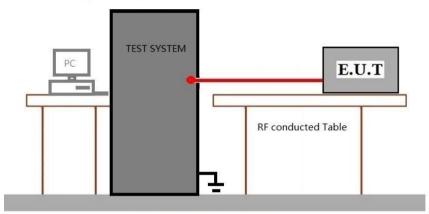


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7.8.3 Test Setup Diagram



Ground Reference Plane

7.8.4 Measurement Procedure and Data

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7.9 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).

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C Humidity: 37.6 % RH Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

7.012 100t mode 2000 pto							
Pre-scan / Final test	Mode Code	Description					
Final test	03	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation					
Final test	04	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation					
Final test	11	(Speaker)2.4G property mode (2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation					



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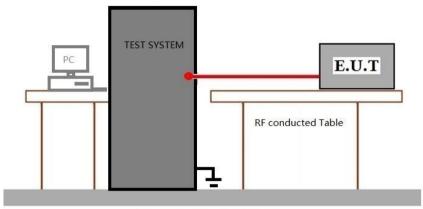


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7.9.3 Test Setup Diagram



Ground Reference Plane

7.9.4 Measurement Procedure and Data

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Test Setup Photo 8

Refer to Appendix - Test Setup Photo for SZCR2409003684AT

EUT Constructional Details (EUT Photos) 9

Refer to Appendix -External and Internal Photos for SZCR2409003684AT



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10 Appendix

For BLE:

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	0.410	0.625	65.60	1.83	0.00	
1M	SISO	2440	0.397	0.625	63.52	1.97	0.00	
		2480	0.410	0.625	65.60	1.83	0.00	
2M S		2404	0.225	0.625	36.00	4.44	0.00	
	SISO	2440	0.226	0.625	36.16	4.42	0.00	
		2478	0.226	0.625	36.16	4.42	0.00	



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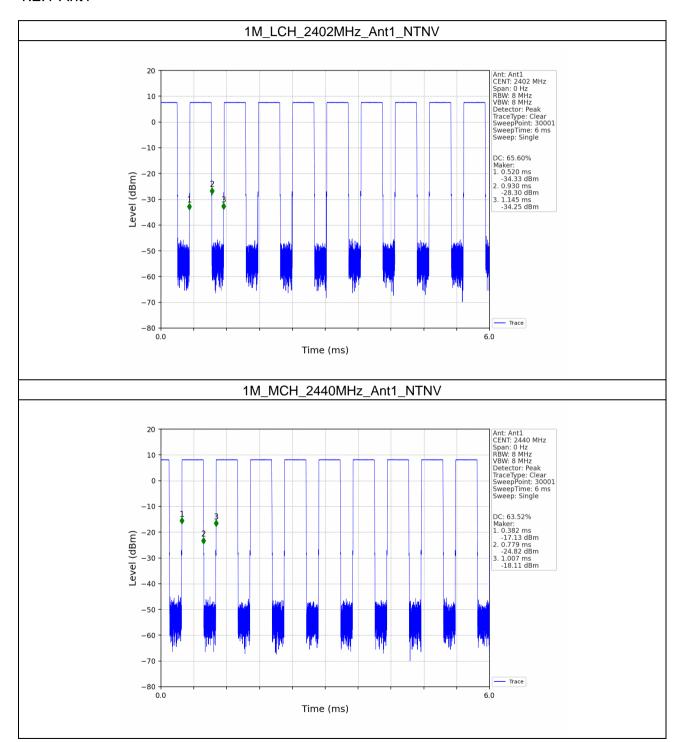
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1.2 Test Graph

1.2.1 Ant1





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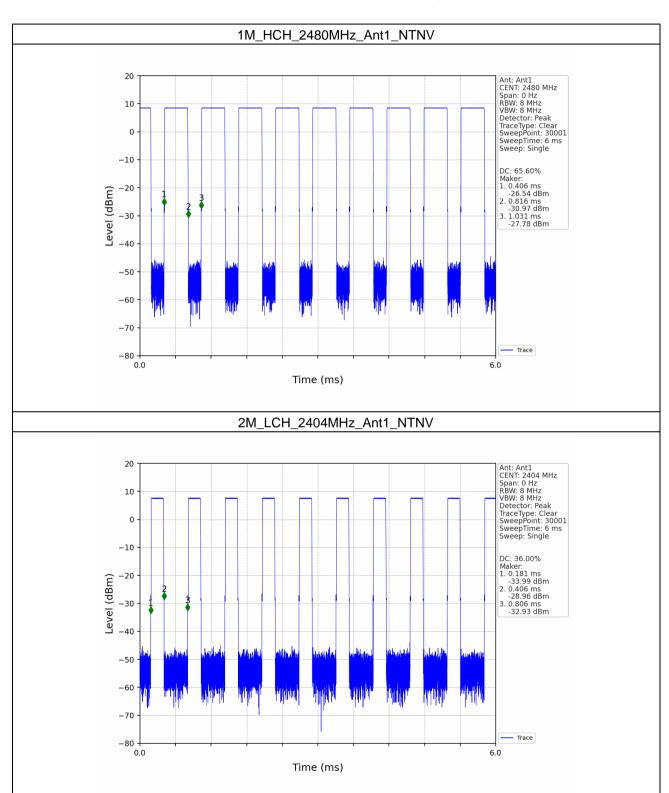
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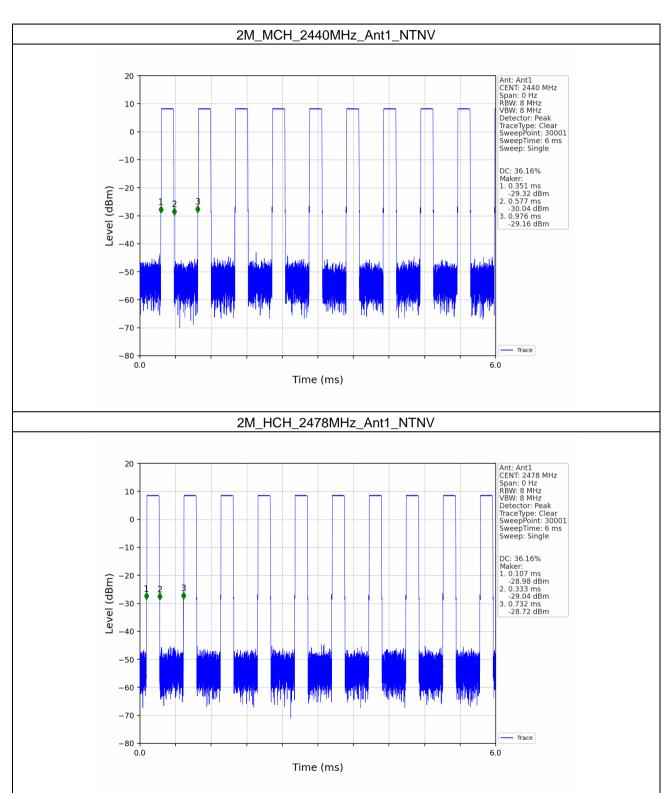
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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied E	\/a=diat	
				Result	Limit	Verdict
1M	SISO	2402	1	1.049	/	Pass
		2440	1	1.048	/	Pass
		2480	1	1.049	/	Pass
2M	SISO	2404	1	2.073	/	Pass
		2440	1	2.074	/	Pass
		2478	1	2.074	/	Pass

2.1.2 6dB BW

Mode	TX	Frequency (MHz)	ANT	6dB Bandv	Mandiat	
	Туре			Result	Limit	Verdict
	SISO	2402	1	0.716	>=0.5	Pass
1M		2440	1	0.719	>=0.5	Pass
		2480	1	0.709	>=0.5	Pass
2M	SISO	2404	1	1.220	>=0.5	Pass
		2440	1	1.219	>=0.5	Pass
		2478	1	1.220	>=0.5	Pass



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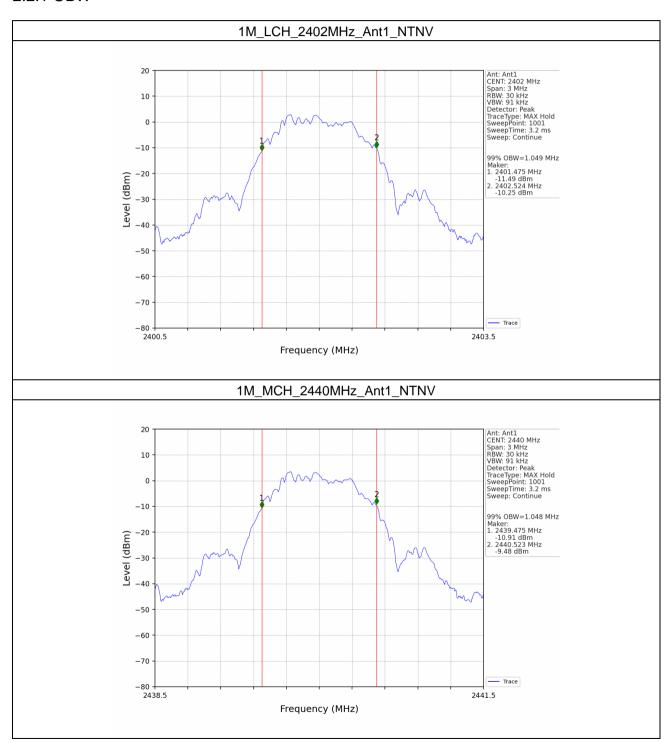
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2.2 Test Graph

2.2.1 OBW





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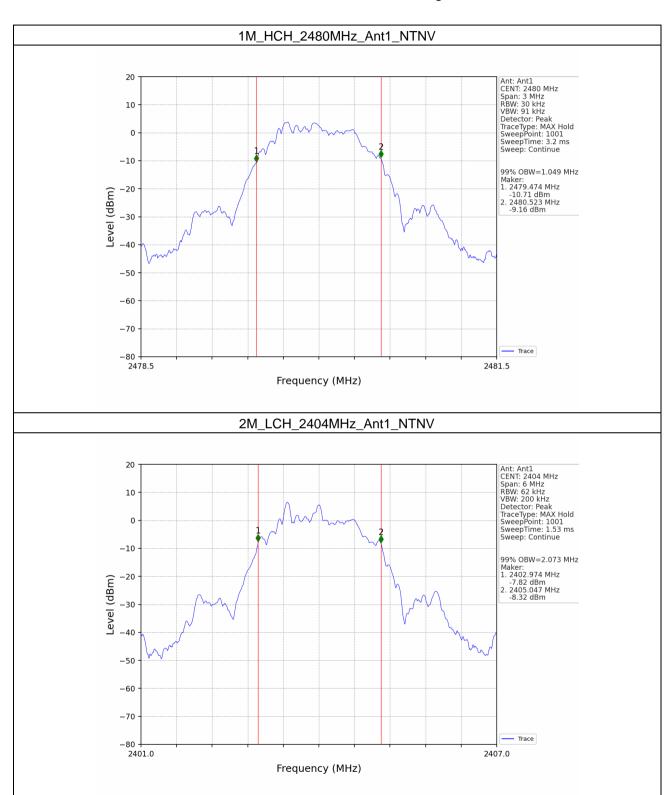
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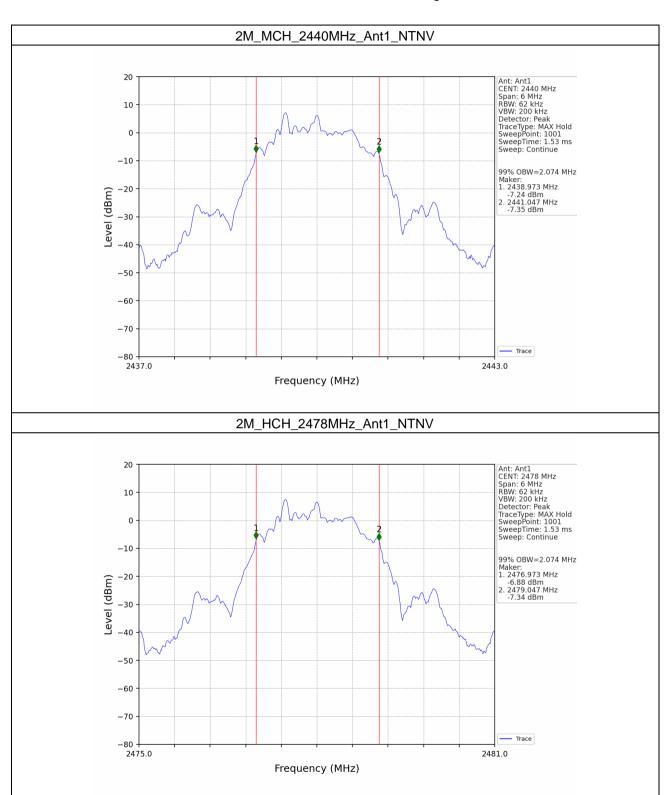
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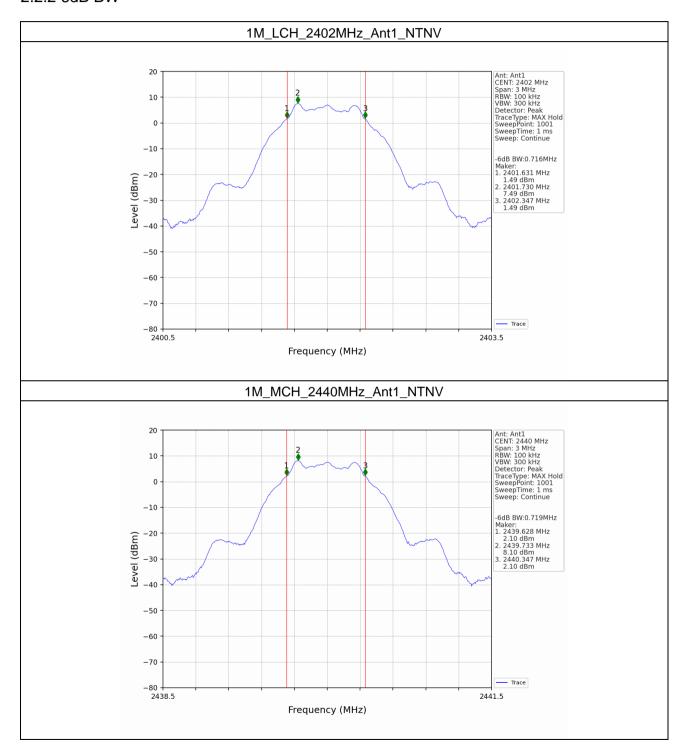


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2.2.2 6dB BW





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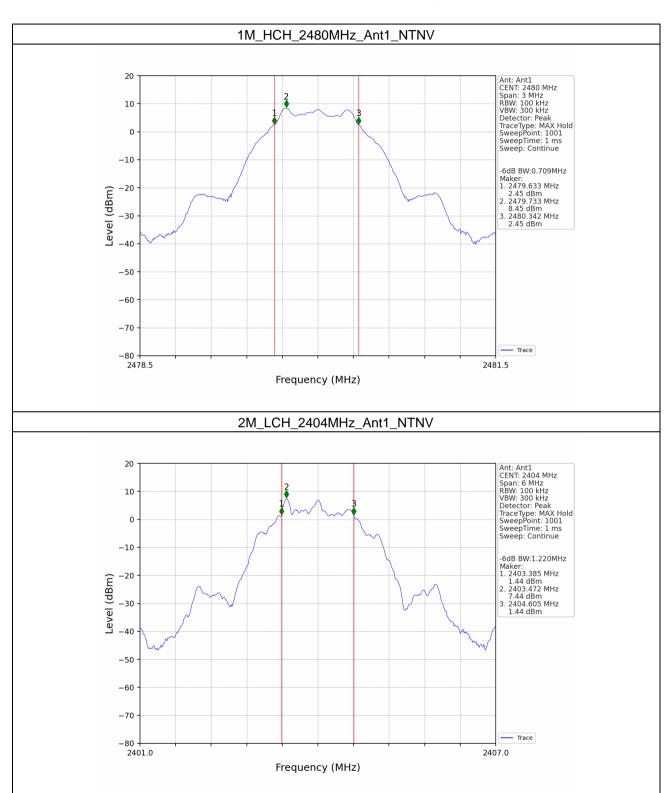
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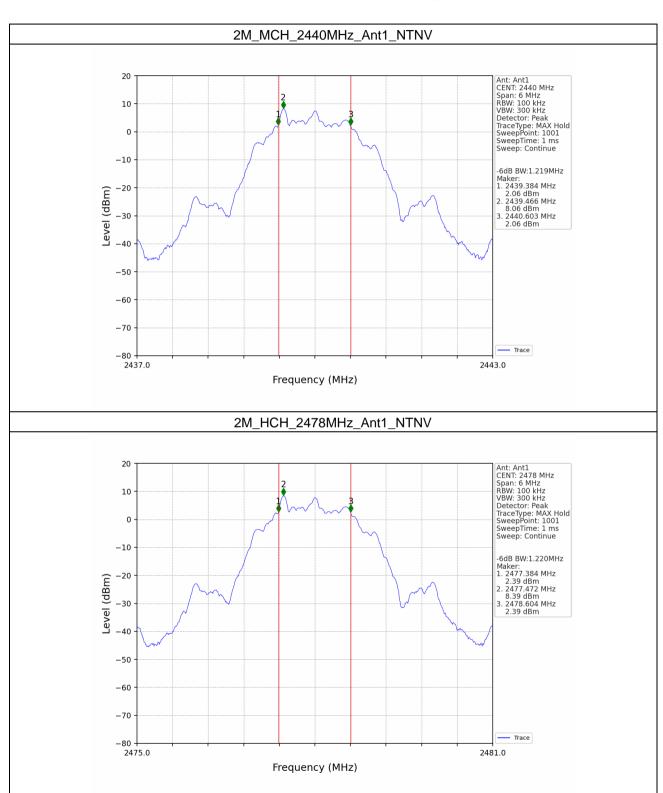
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3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Гуре	(MHz)	ANT1	Limet	Verdict
		1	Limit	
	2402	7.97	<=30	Pass
SISO	2440	8.39	<=30	Pass
	2480	8.92	<=30	Pass
	2404	7.98	<=30	Pass
SISO	2440	8.41	<=30	Pass
	2478	8.90	<=30	Pass
>	SISO	2480 2404 SISO 2440	2480 8.92 2404 7.98 3ISO 2440 8.41 2478 8.90	2480 8.92 <=30 2404 7.98 <=30 2440 8.41 <=30 2478 8.90 <=30

4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX	Frequency	Maximum PS	Vardiet	
	Type	(MHz)	ANT1	Limit	Verdict
1M SISO		2402	-7.59	<=8	Pass
	2440	-7.15	<=8	Pass	
		2480	-6.59	<=8	Pass
2M SIS		2404	-11.08	<=8	Pass
	SISO	2440	-10.69	<=8	Pass
		2478	-10.29	<=8	Pass



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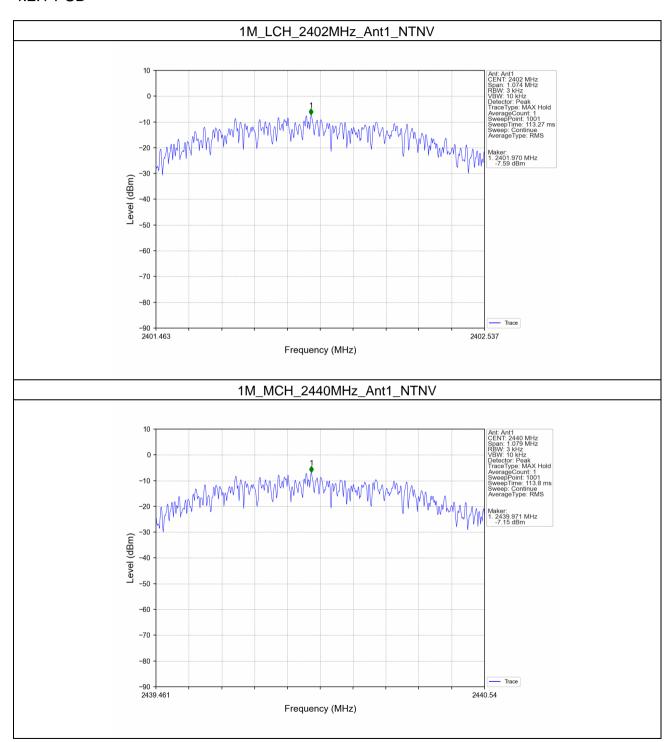
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4.2 Test Graph

4.2.1 PSD





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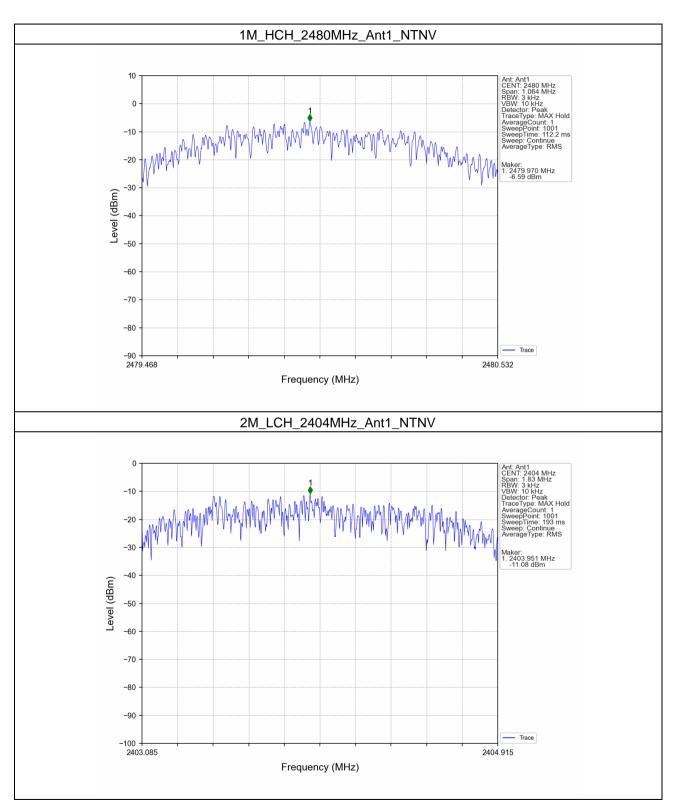
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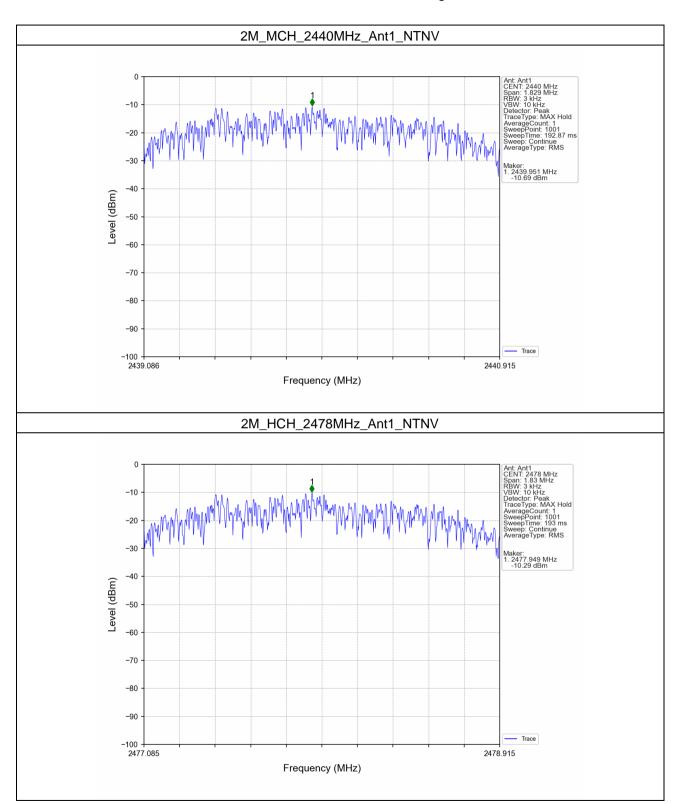
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Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
		2402	1	7.86
1M	SISO	2440	1	8.28
	0.00	2480	1	8.80
	SISO	2404	1	7.79
2M		2440	1	8.21
		2478	1	8.71

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
	2402	1	8.80	-11.20	Pass	
1M	SISO	2440	1	8.80	-11.20	Pass
		2480	1	8.80	-11.20	Pass
		2404	1	8.71	-11.29	Pass
2M	SISO	2440	1	8.71	-11.29	Pass
		2478	1	8.71	-11.29	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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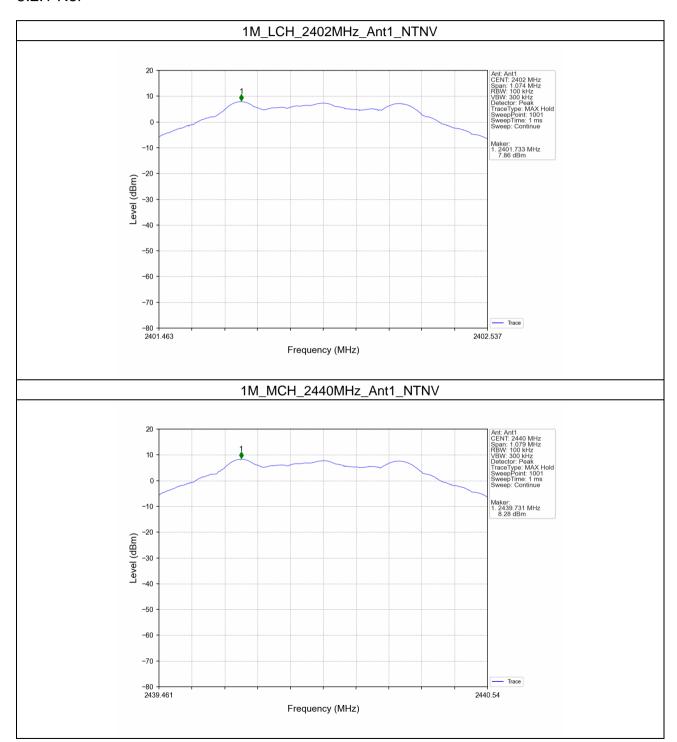
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5.2 Test Graph

5.2.1 Ref





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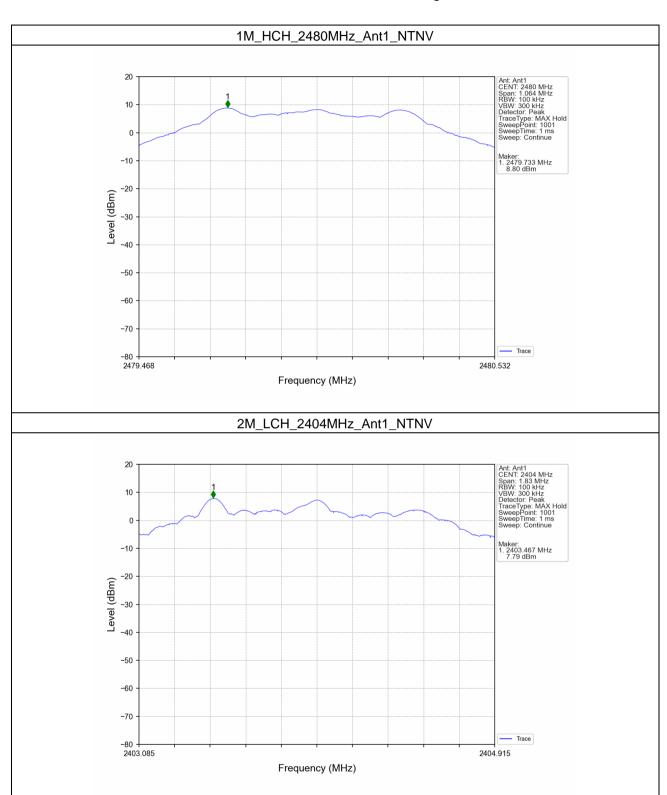
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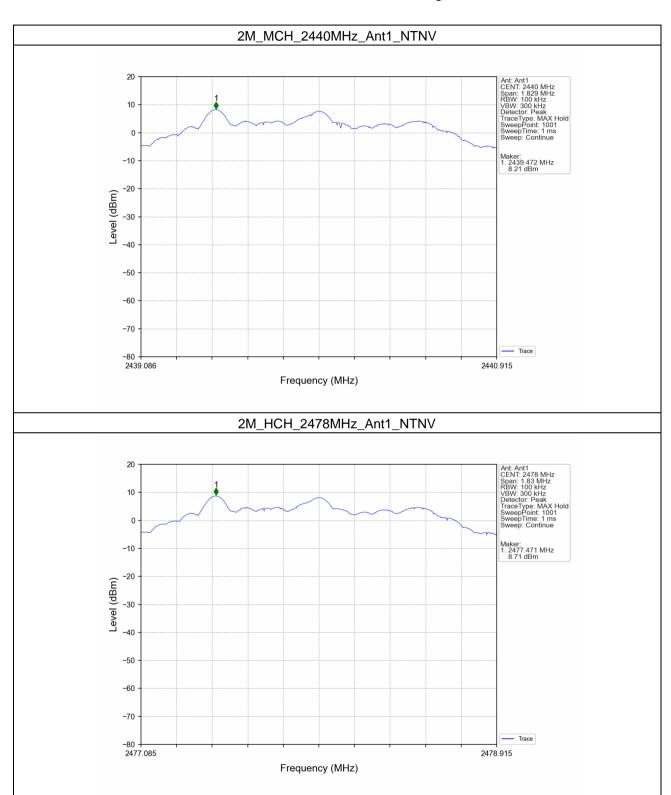
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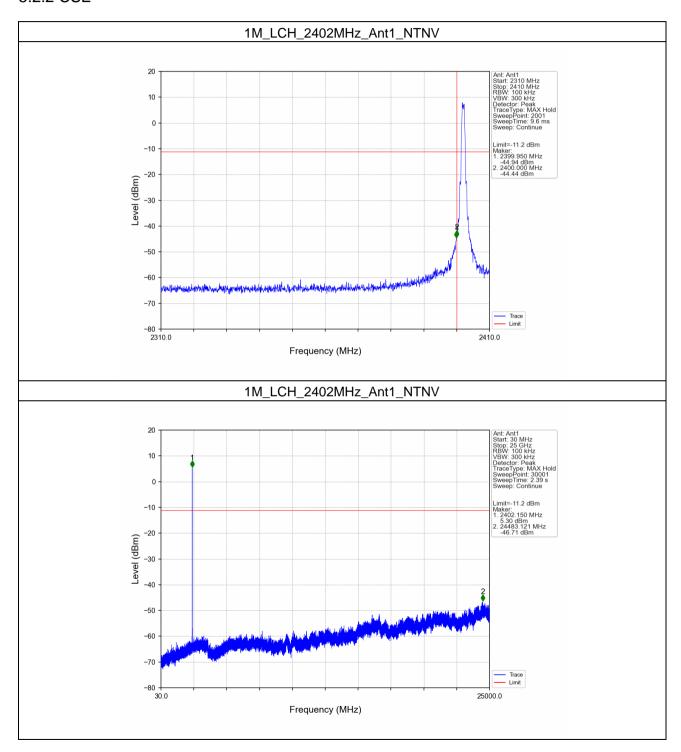


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5.2.2 CSE





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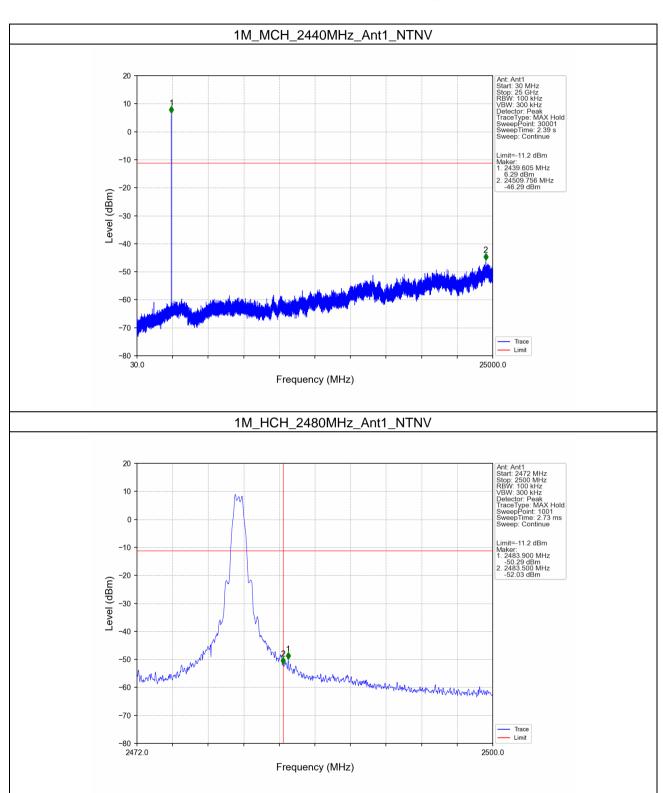
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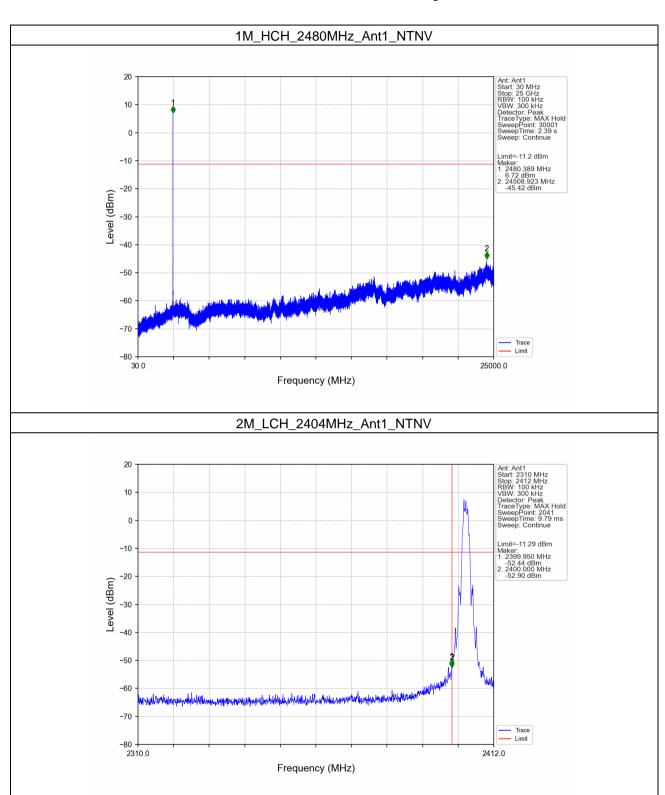
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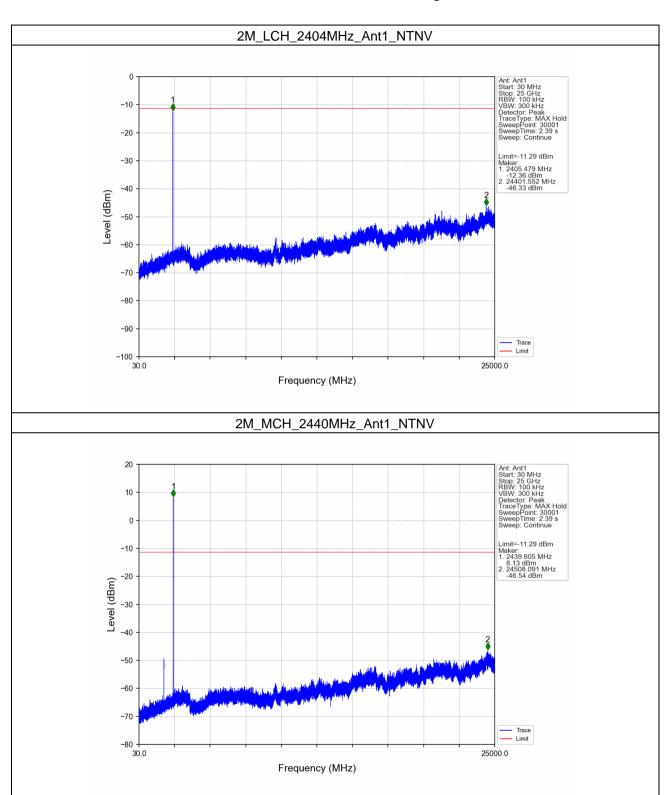
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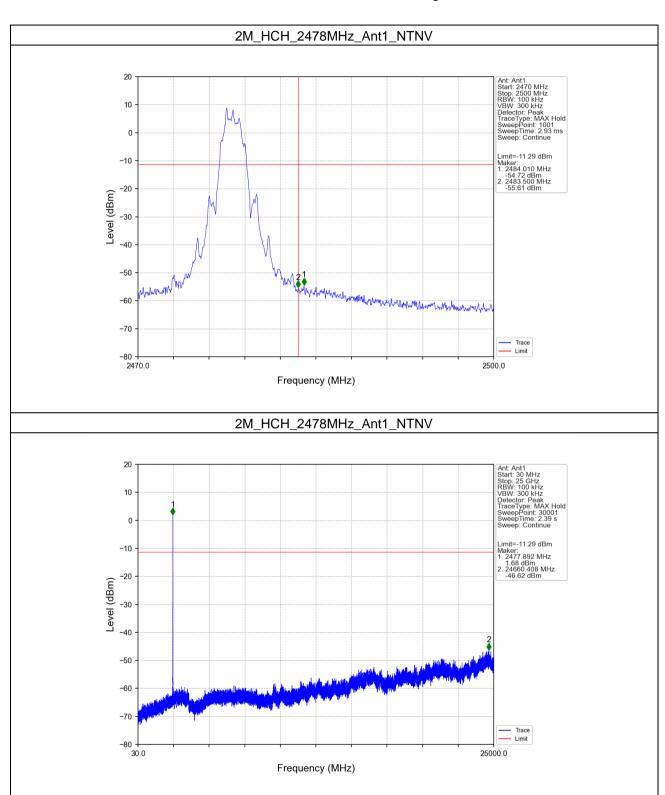
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For 2.4G Property:

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 (%)		
		2404	0.199	2.541	7.83	11.06	0.03		
2M	SISO	2440	0.199	2.542	7.83	11.06	0.03		
		2478	0.199	2.541	7.83	11.06	0.03		



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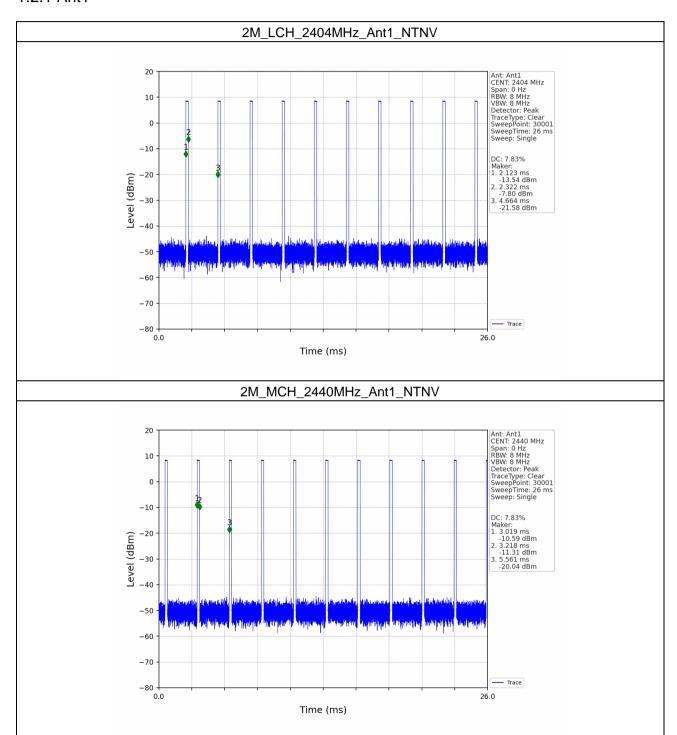
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1.2 Test Graph

1.2.1 Ant1





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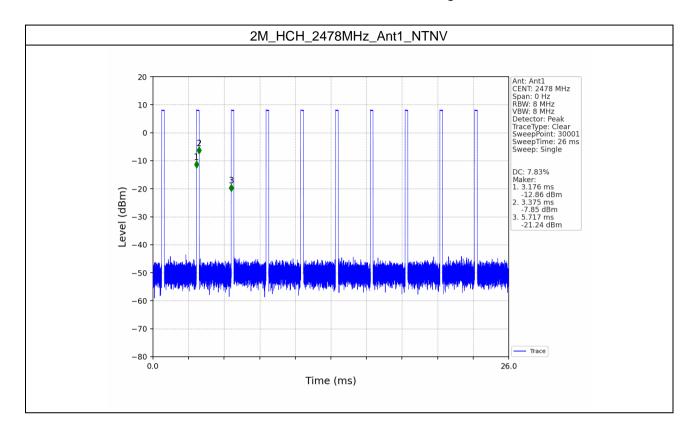
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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode TX		Frequency		99% Occupied E	Bandwidth (MHz)	Verdict
Mode	Type	(MHz)	AINT	Result	Limit	verdict
		2404	1	2.070	/	Pass
2M	SISO	2440	1	2.070	/	Pass
		2478	1	2.068	/	Pass

2.1.2 6dB BW

Mode TX Type	TX	Frequency	ANIT	6dB Bandv	Verdict	
	(MHz)	ANT	Result	Limit		
	2404	1	1.167	>=0.5	Pass	
2M	2M SISO	2440	1	1.179	>=0.5	Pass
	2478	1	1.173	>=0.5	Pass	



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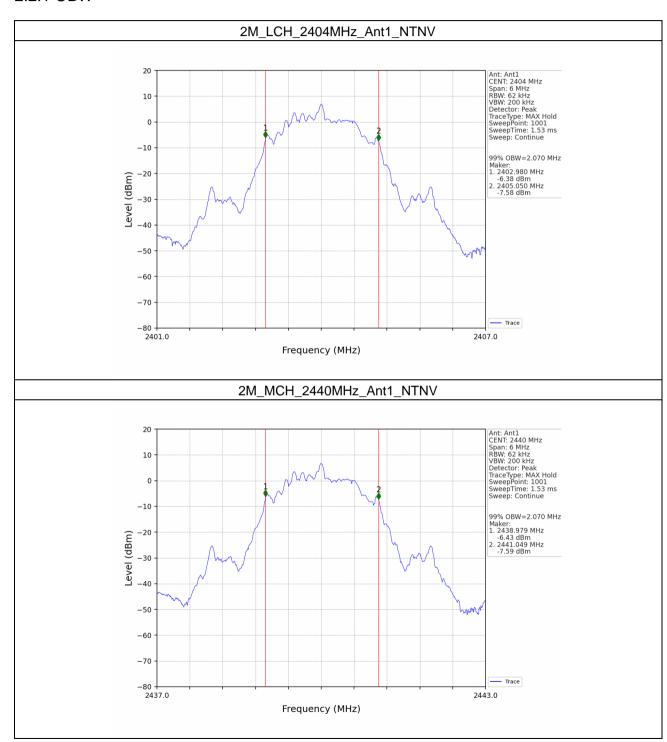
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2.2 Test Graph

2.2.1 OBW





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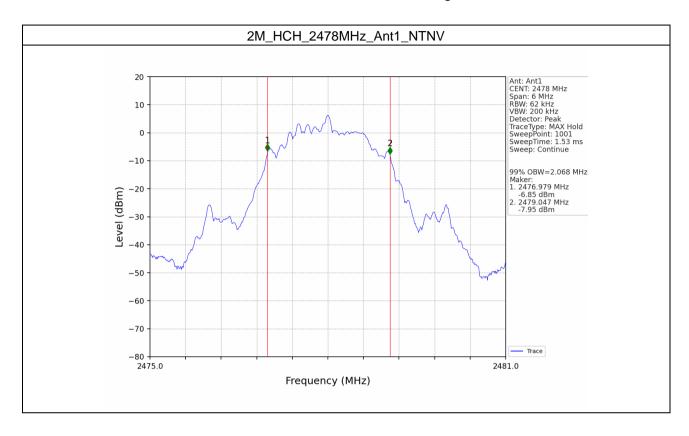
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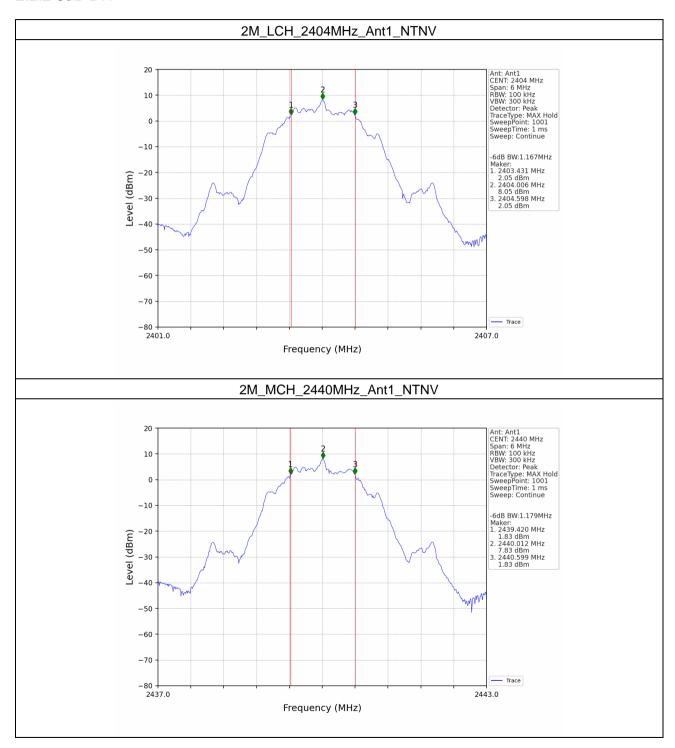


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2.2.2 6dB BW





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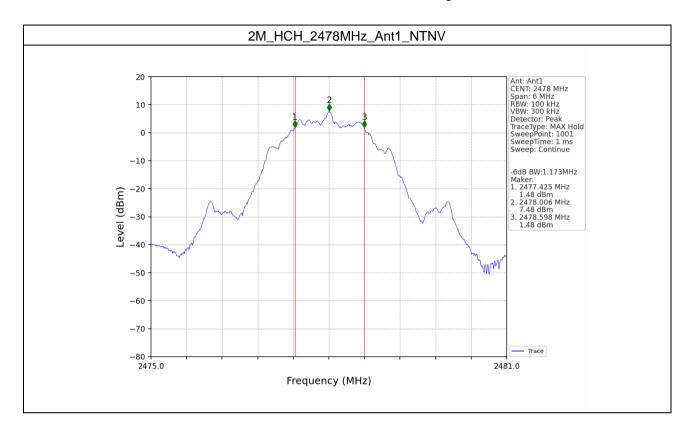
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3. Maximum Conducted Output Power

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			
	2404	6.19	<=30	Pass			
2M	SISO	2440	6.41	<=30	Pass		
		2478	6.50	<=30	Pass		
Note1: Antenna Gain: Ant1: 2.26dBi;							

4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	Made TX	Frequency	Maximum PS	Vardiat			
Mode Type	Туре	(MHz)	ANT1	Limit	Verdict		
		2404	-11.15	<=8	Pass		
2M	SISO	2440	-11.12	<=8	Pass		
		2478	-10.72	<=8	Pass		
Note1: Antenna Gain: Ant1: 2.26dBi;							



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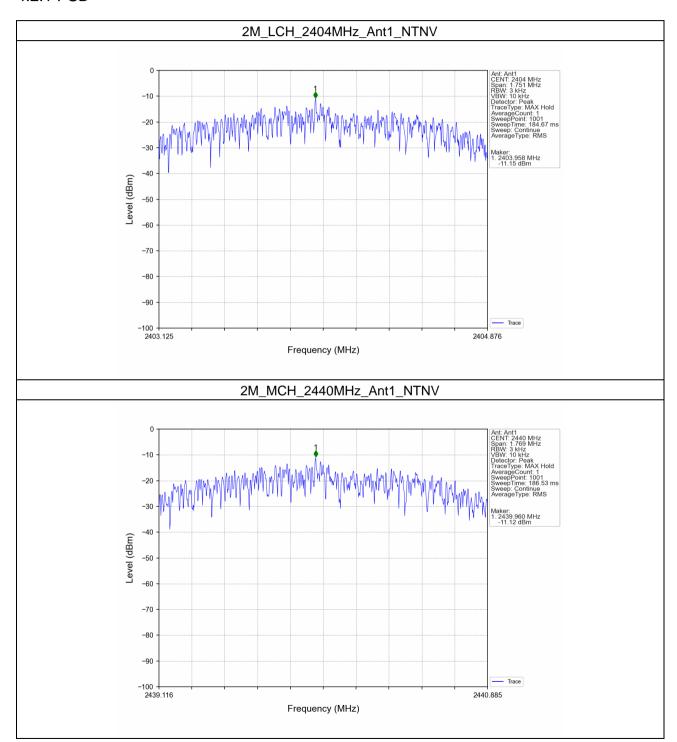
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4.2 Test Graph

4.2.1 PSD





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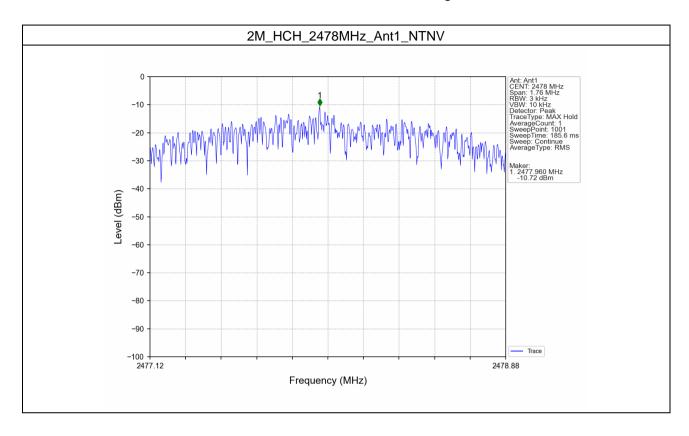
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Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
2M	SISO	2404	1	5.60
		2440	1	5.83
		2478	1	5.93

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
		2404	1	5.93	-14.07	Pass
2M	SISO	2440	1	5.93	-14.07	Pass
		2478	1	5.93	-14.07	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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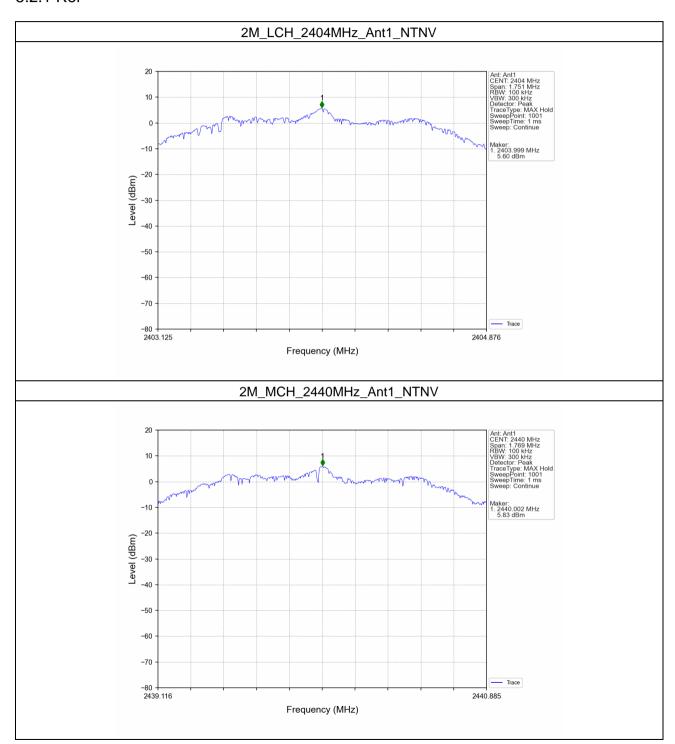
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5.2 Test Graph

5.2.1 Ref





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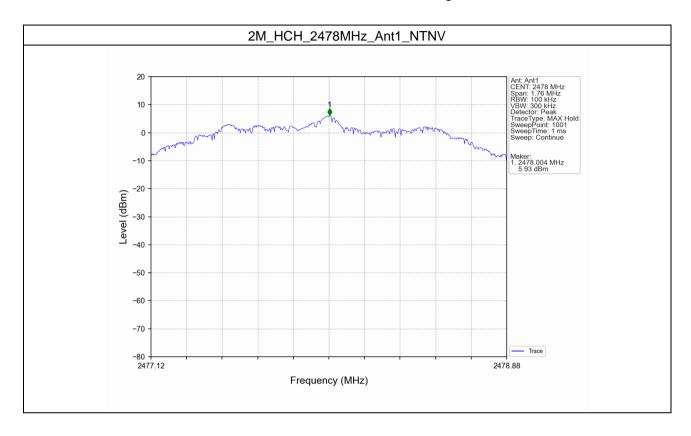
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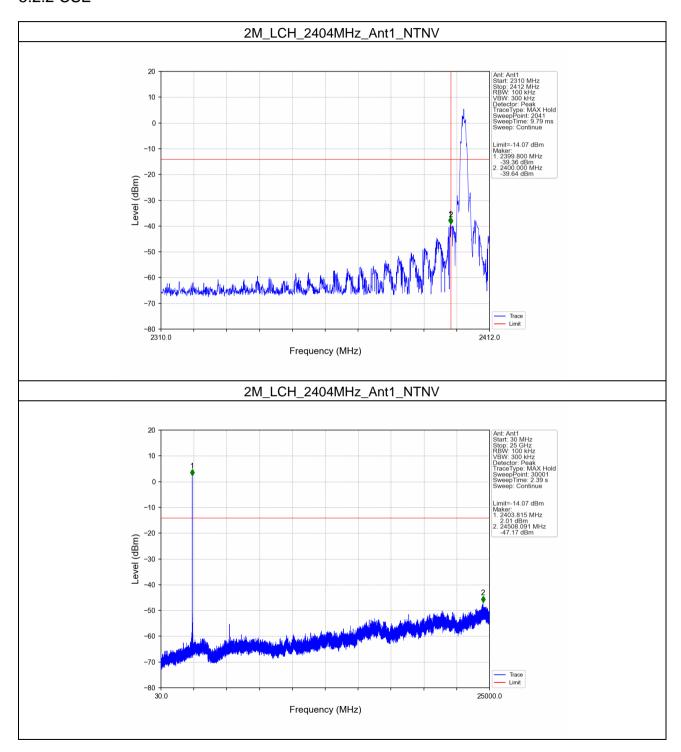


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5.2.2 CSF





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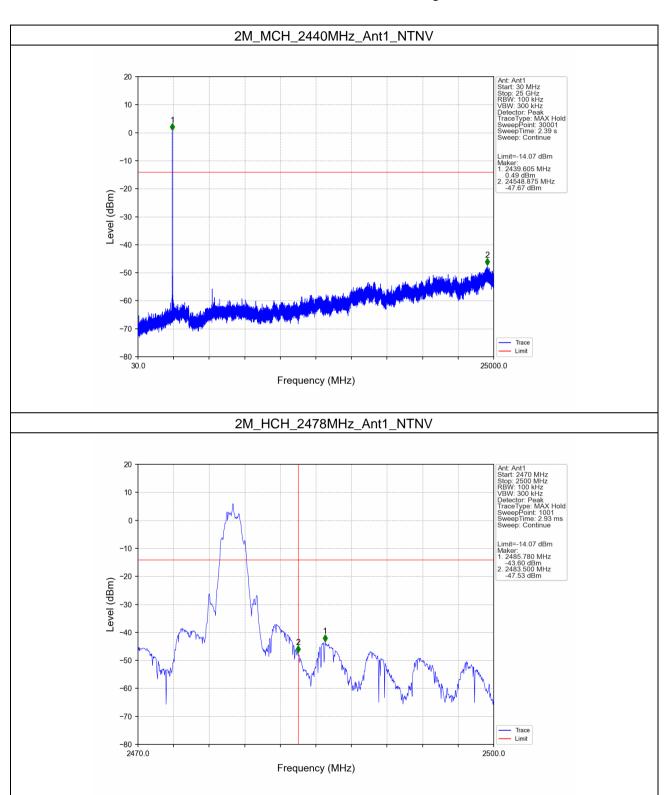
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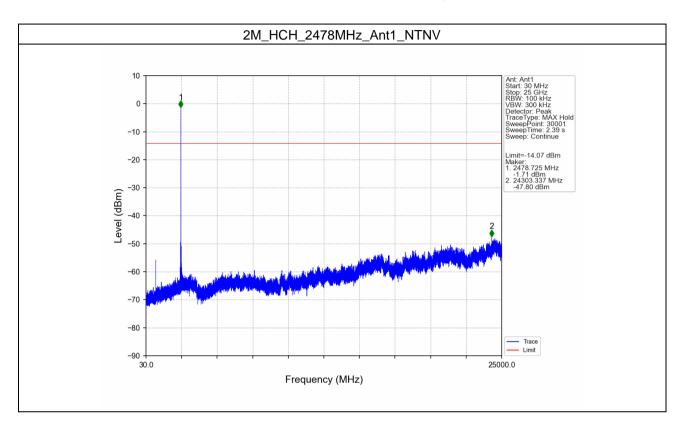
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