

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240600229804

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TEST REPORT

Application No.: SZCR2406002298AT

Applicant: Ruroc Limited.

Address of Applicant: Unit 2 Barnett Way, Barnwood, Gloucester, GL4 3RT, United Kingdom

Manufacturer: RUROC LIMITED.

Address of Manufacturer: Unit 2 Barnett Way, Barnwood, Gloucester, GL4 3RT, United Kingdom

Factory: Arts Electronics Co., Ltd.

Address of Factory: Building 4 & 5, NO.1, SHANGXING LU, SHANGJIAO COMMUNITY,

CHANGAN TOWN, DONGGUAN CITY, GUANGDONG PROVINCE, CHINA

Equipment Under Test (EUT):

EUT Name: Ruroc ShockwaveMesh
Model No.: Ruroc ShockwaveMesh

Trade Mark:

FCC ID: 2AZ5F-SW-MH

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

Date of Receipt: 2024-06-14

Date of Test: 2024-06-29 to 2024-10-24

Date of Issue: 2024-11-07

Test Result: Pass*

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		2024-11-07		Original			

Authorized for issue by:		
	Gebin Sun	
	Gebin Sun/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 Average 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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General Information

Details of E.U.T. 4.1

Power supply:	Rechargeable battery DC3.8V,650mAh ,Charged by DC5V
Cable(s):	AUX cable:8cm unshielded
	AUX cable:18cm unshielded
	Connection cable:30cm unshielded
Operation Frequency:	2405MHz to 2475MHz
Modulation Type:	O-QPSK
Number of Channels:	8
Channel Spacing:	10MHz
Antenna Type:	PCB Antenna
Antenna Gain:	0dBi

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.	
RF cable	supplied by SGS	N/A(cable loss:0.6dB)	REF. No.SEL000089	

4.3 Measurement Uncertainty

Measurement Uncertainty
± 3.1dB
± 6.0dB (Below 1GHz);± 4.6dB (Above 1GHz)
± 6.0dB for 3m; ± 5.0dB for 10m
± 4.6dB (1-18GHz);± 4.8dB (18- 40GHz)
± 0.75dB
± 3%
± 2.84dB
± 0.75dB
± 0.75dB

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr/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	ESCI	SEM004-02	2024-03-14	2025-03-13
Measurement Software	AUDIX	e3 V8.2014-6- 27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2023-07-08 2024-07-06	2024-07-07 2025-07-05
LISN	Rohde&Schwarz	ENV216	SEM007-01	2023-08-17 2024-08-15	2024-08-16 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	
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10	
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14	
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22	
Microwave system	Agilopt	83017A	SEM005-25	2023-09-16	2024-09-15	
amplifier	Agilent	63017A	SEIVI005-25	2024-09-14	2025-09-13	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-08	2024-07-07	
Guaxiai Gable				2024-07-06	2025-07-05	
Broad-Band Horn	Schwarzbeck	BBHA 9170	SEM003-15	2023-08-12	2024-08-11	
Antenna	Scriwarzbeck	DDNA 9170	SEIVIUU3-15	2024-08-10	2025-08-09	
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14	



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Radiated Spurious Emissions Below 1GHz						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19	
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18	
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2023-08-16	2024-08-15	
INIVE EINII Receivei				2024-08-14	2025-08-13	
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15	
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14	2025-03-13	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	909	N/A	SEM025.01	2023-07-08	2024-07-07	
	SGS		SEM025-01	2024-07-06	2025-07-05	

Radiated Spurious Emissions Above 1GHz								
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date			
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10			
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14			
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22			
Microwave system	Agilopt	83017A	SEM005-25	2023-09-16	2024-09-15			
amplifier	Agilent	63017A	SEIVI005-25	2024-09-14	2025-09-13			
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A			
Cooviel Coble	SGS	N/A	SEM026-01	2023-07-08	2024-07-07			
Coaxial Cable	565	IN/A	SEIVIU26-01	2024-07-06	2025-07-05			
Broad-Band Horn	Schwarzbeck	BBHA 9170	SEM003-15	2023-08-12	2024-08-11			
Antenna	Scriwarzbeck	DDNA 9170	SEIVI003-15	2024-08-10	2025-08-09			
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14			



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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 Dower Cumply	Chromo	62012P-80-60	SEM011-11	2023-08-16	2024-08-15				
DC Power Supply	Chroma	62012P-60-60	SEIVIUTT-TT	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	202	N/A	CEM021 01	2023-07-08	2024-07-07				
Coaxial Cable	SGS	IN/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	deli	8838	SEMOOD 22	2023-07-26	2024-07-25
Indicator	deli	0030	3EIVI002-32	SEM002-32 2023-07-26 2024-07-24 SEM002-33 2023-07-26 2024-07-24	
Humidity/ Temperature	deli	0000	SEMOOD 22	2023-07-26	2024-07-25
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 0dBi

Antenna location: Refer to internal photo.



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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/MHT)	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 30MHz							

7.1.1 E.U.T. Operation

Operating Environment:

23.5 °C Temperature: Humidity: 46.9 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	Charge + TX mode_Keep the EUT in charging and continuously transmitting with O-QPSK modulation mode.



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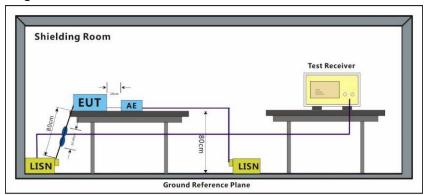
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7.1.3 Test Setup Diagram



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 $50 \text{ohm}/50 \mu\text{H} + 5 \text{ohm}$ 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:

- 1) Through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) Level=Read Level+ Cable Loss+ LISN Factor



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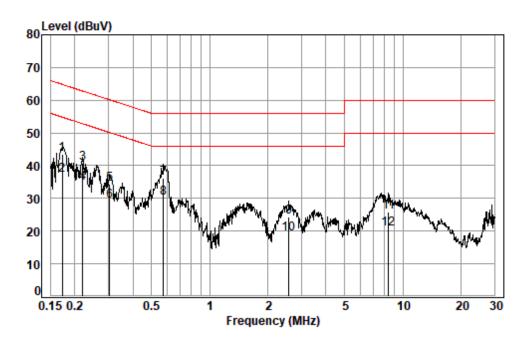


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Test Mode: 08; Line: Live line



: Shielding Room

Condition: Line Job No. : 02298AT

Test mode: 08

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1731	0.02	9.51	34.08	43.61	64.81	-21.20	QP
2	0.1731	0.02	9.51	27.47	37.00	54.81	-17.81	Average
3	0.2208	0.03	9.48	31.23	40.74	62.79	-22.05	QP
4	0.2208	0.03	9.48	25.25	34.76	52.79	-18.03	Average
5	0.3035	0.03	9.54	24.70	34.27	60.15	-25.88	QP
6	0.3035	0.03	9.54	19.55	29.12	50.15	-21.03	Average
7 *	0.5762	0.04	9.66	26.60	36.30	56.00	-19.70	QP
8 *	0.5762	0.04	9.66	20.31	30.01	46.00	-15.99	Average
9	2.5671	0.07	9.47	14.67	24.21	56.00	-31.79	QP
10	2.5671	0.07	9.47	9.57	19.11	46.00	-26.89	Average
11	8.4562	0.15	9.84	15.78	25.77	60.00	-34.23	QP
12	8.4562	0.15	9.84	10.83	20.82	50.00	-29.18	Average



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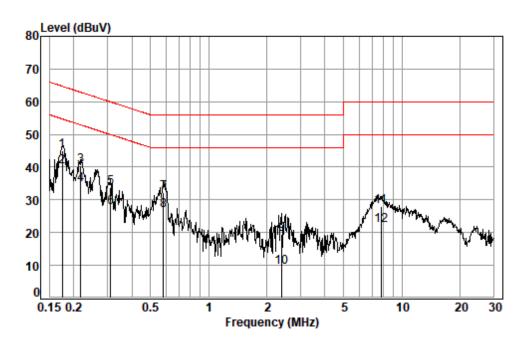


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Test Mode: 08; Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 02298AT

Test mode: 08

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1749	0.02	9.64	35.45	45.11	64 72	-19.61	OP
2 *	0.1749	0.02	9.64	30.58	40.24			Average
								_
3	0.2174	0.03	9.66	30.64	40.33	62.92	-22.59	QР
4	0.2174	0.03	9.66	25.12	34.81	52.92	-18.11	Average
5	0.3100	0.03	9.70	24.07	33.80	59.97	-26.17	QP
6	0.3100	0.03	9.70	18.09	27.82	49.97	-22.15	Average
7	0.5823	0.04	9.87	22.48	32.39	56.00	-23.61	QP
8	0.5823	0.04	9.87	16.71	26.62	46.00	-19.38	Average
9	2.3962	0.07	9.66	9.87	19.60	56.00	-36.40	QP
10	2.3962	0.07	9.66	-0.37	9.36	46.00	-36.64	Average
11	7.8102	0.13	9.93	18.06	28.12	60.00	-31.88	QP
12	7.8102	0.13	9.93	12.04	22.10	50.00	-27.90	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: 22.4 °C Humidity: 58.6 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	07	TX mode_Keep the EUT in continuously transmitting with O-QPSK modulation mode.
Final test	08	Charge + TX mode_Keep the EUT in charging and continuously transmitting with O-QPSK modulation mode.



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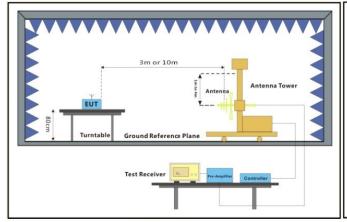


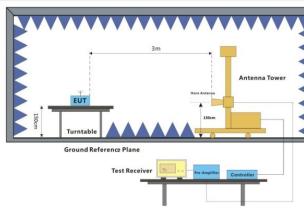
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7.2.3 Test Setup Diagram





Above 1GHz 30MHz-1GHz



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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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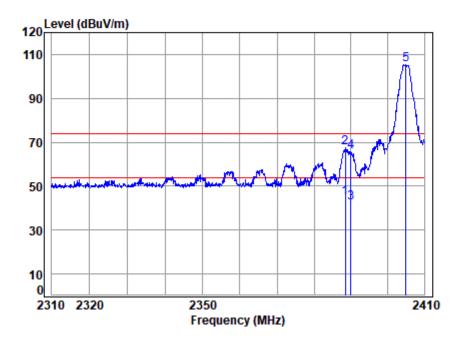


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Test Mode: 08; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL : 02298AT\02299AT Mode : 2405 Band edge

		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 q	2388.445	15.81	29.10	32.78	32.68	44.81	54.00	-9.19	Average
2	2388.445	15.81	29.10	32.78	55.51	67.64	74.00	-6.36	peak
3	2390.000	15.81	29.10	32.78	30.28	42.41	54.00	-11.59	Average
4	2390.000	15.81	29.10	32.78	53.69	65.82	74.00	-8.18	peak
5 p	2405.000	15.82	29.08	32.77	93.13	105.26	74.00	31.26	peak



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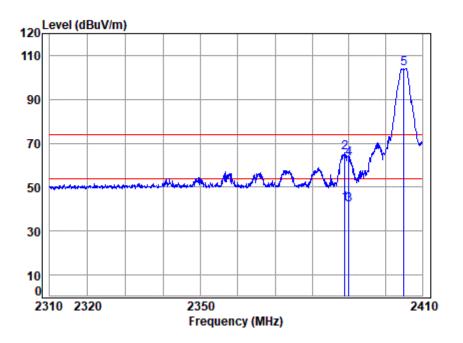


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Test Mode: 08; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL

: 02298AT\02299AT Mode : 2405 Band edge

	Fr	eq			Preamp Factor					Remark
	М	Hz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	q 2388.8 2388.8									_
3	2390.0	00	15.81	29.10	32.78	29.81	41.94	54.00	-12.06	Average
4	2390.0	00	15.81	29.10	32.78	50.99	63.12	74.00	-10.88	peak
5	p 2405.0	00	15.82	29.08	32.77	91.83	103.96	74.00	29.96	peak



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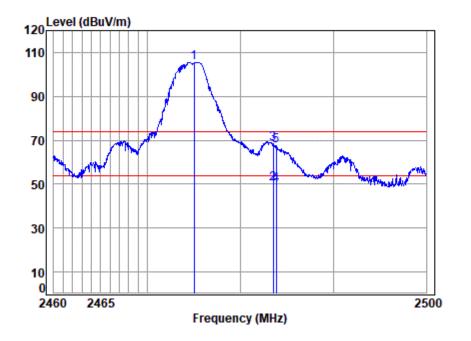


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Test Mode: 08; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 02298AT\02299AT Mode : 2475 Band edge

		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 p	2475.000	15.86	28.90	32.74	93.52	105.54	74.00	31.54	peak
2 q	2483.500	15.86	28.90	32.73	38.19	50.22	54.00	-3.78	Average
3	2483.500	15.86	28.90	32.73	56.25	68.28	74.00	-5.72	peak
4	2483.843	15.86	28.90	32.73	37.68	49.71	54.00	-4.29	Average
5	2483.843	15.86	28.90	32.73	55.32	67.35	74.00	-6.65	peak



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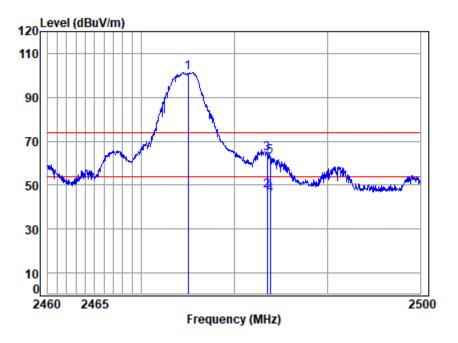


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Test Mode: 08; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL

: 02298AT\02299AT Mode : 2475 Band edge

		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 p	2475.000	15.86	28.90	32.74	89.18	101.20	74.00	27.20	peak
2 q	2483.500	15.86	28.90	32.73	35.22	47.25	54.00	-6.75	Average
3	2483.500	15.86	28.90	32.73	52.28	64.31	74.00	-9.69	peak
4	2483.802	15.86	28.90	32.73	33.54	45.57	54.00	-8.43	Average
5	2483.802	15.86	28.90	32.73	50.95	62.98	74.00	-11.02	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: 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
960-1000	500	3

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 47.5 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	07	TX mode_Keep the EUT in continuously transmitting with O-QPSK modulation mode.
Final test	08	Charge + TX mode_Keep the EUT in charging and continuously transmitting with O-QPSK modulation mode.



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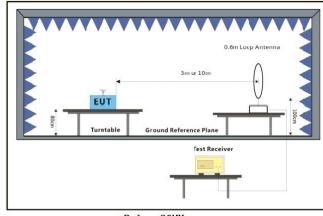
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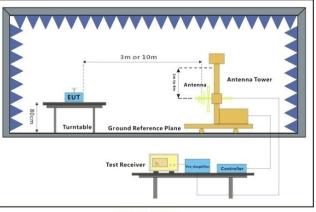


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7.3.3 Test Setup Diagram





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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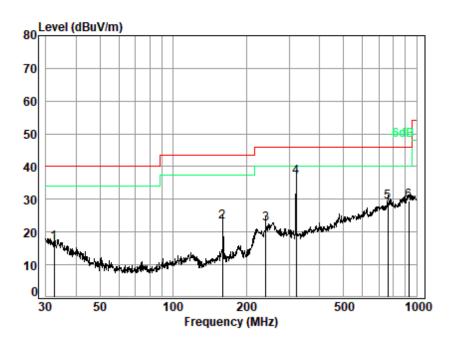


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Test Mode: 08; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL Job No. : 02298AT/02299AT

Test Mode: 08

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
_	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	32.41	20.11	0.67	27.79	23.77	16.76	40.00	-23.24	QP
2	159.78	13.59	1.51	27.34	35.49	23.25	43.50	-20.25	QP
3	239.99	17.07	1.91	27.00	30.53	22.51	46.00	-23.49	QP
4 q	319.94	18.51	2.25	26.83	43.00	36.93	46.00	-9.07	QP
5	763.38	26.52	3.71	27.57	26.63	29.29	46.00	-16.71	QP
6	929.01	28.16	4.17	26.56	23.70	29.47	46.00	-16.53	OP



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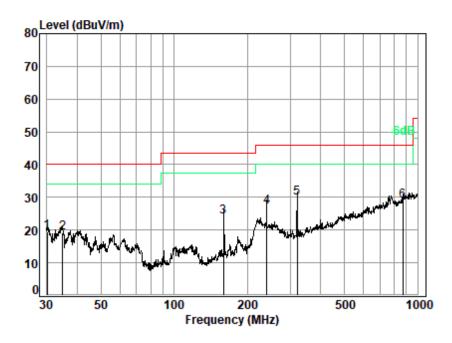


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Test Mode: 08; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No. : 02298AT/02299AT

Test Mode: 08

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq Factor		Loss Factor		Level L	Level Line		Limit	Remark
_	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.11	21.15	0.64	27.79	25.49	19.49	40.00	-20.51	QP
2	34.76	19.01	0.69	27.78	27.38	19.30	40.00	-20.70	QP
3	159.78	13.59	1.51	27.34	36.25	24.01	43.50	-19.49	QP
4	239.99	17.07	1.91	27.00	35.08	27.06	46.00	-18.94	QP
5 q	319.94	18.51	2.25	26.83	35.81	29.74	46.00	-16.26	QP
6	869.13	27.65	4.01	26.99	24.21	28.88	46.00	-17.12	OP



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7.4 Radiated Spurious Emissions Above 1GHz

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

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

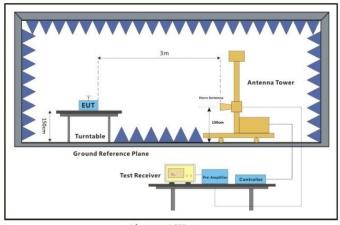
Operating Environment:

Temperature: 22.4 °C Humidity: 58.7 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description									
Pre-scan	07	TX mode_Keep the EUT in continuously transmitting with O-QPSK modulation mode.									
Final test	08	Charge + TX mode_Keep the EUT in charging and continuously transmitting with O-QPSK modulation mode.									

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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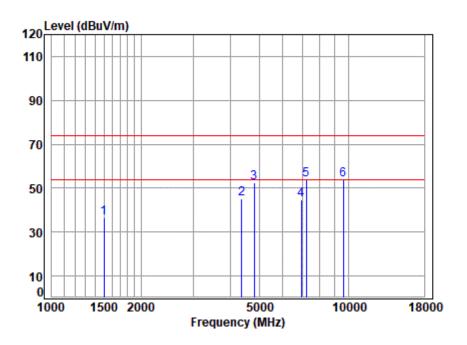


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Test Mode: 08; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL : 02298AT\02299AT Mode : 2405 RSE TX

		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	1498.781	4.57	26.77	61.66	66.69	36.37	74.00	-37.63	peak
2	4367.058	8.04	34.54	61.51	64.06	45.13	74.00	-28.87	peak
3	4810.000	8.00	34.34	61.89	71.99	52.44	74.00	-21.56	peak
4	6934.778	9.48	35.74	62.19	61.78	44.81	74.00	-29.19	peak
5 p	7215.000	9.31	35.70	62.04	70.77	53.74	74.00	-20.26	peak
6	9620.000	11.40	37.44	62.15	66.97	53.66	74.00	-20.34	peak



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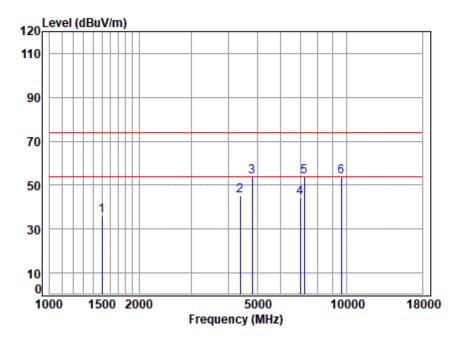


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Test Mode: 08; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL

: 02298AT\02299AT Mode : 2405 RSE TX

		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	1503.119	4.58	26.81	61.66	66.50	36.23	74.00	-37.77	peak
2	4379.699	8.02	34.64	61.52	63.91	45.05	74.00	-28.95	peak
3	4810.000	8.00	34.34	61.89	73.34	53.79	74.00	-20.21	peak
4	6974.982	9.51	35.75	62.17	61.39	44.48	74.00	-29.52	peak
5	7215.000	9.31	35.70	62.04	70.82	53.79	74.00	-20.21	peak
6 p	9620.000	11.40	37.44	62.15	67.27	53.96	74.00	-20.04	peak



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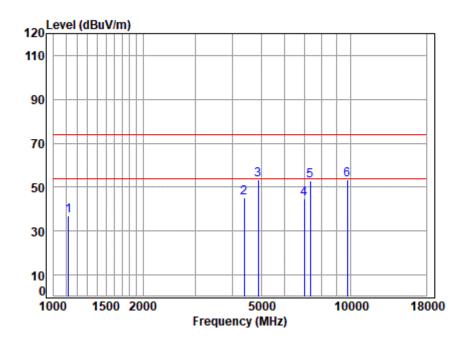


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Test Mode: 08; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL : 02298AT\02299AT Mode : 2445 RSE TX

	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 1122.563	4.56	23.79	61.52	70.27	37.10	74.00	-36.90	peak
2 4392.376	8.00	34.74	61.53	63.86	45.07	74.00	-28.93	peak
3 p 4880.000	8.03	34.62	61.94	72.89	53.60	74.00	-20.40	peak
4 6995.172	9.53	35.71	62.16	61.61	44.69	74.00	-29.31	peak
5 7320.000	9.21	35.70	61.98	70.10	53.03	74.00	-20.97	peak
6 9760.000	11.32	37.38	62.19	67.01	53.52	74.00	-20.48	peak



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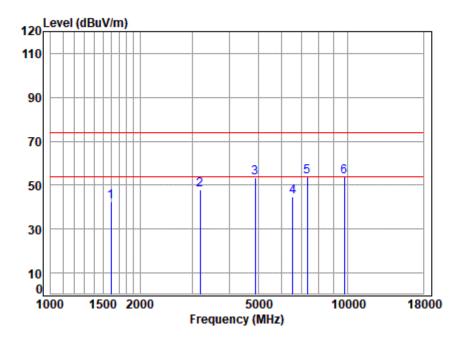


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Test Mode: 08; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber Condition: 3m VERTICAL

: 02298AT\02299AT Mode : 2445 RSE TX

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1597.181	4.78	26.81	61.69	72.72	42.62	74.00	-31.38	peak
2	3186.869	6.77	32.79	61.37	69.58	47.77	74.00	-26.23	peak
3	4880.000	8.03	34.62	61.94	72.65	53.36	74.00	-20.64	peak
4	6545.263	9.18	35.51	62.41	62.47	44.75	74.00	-29.25	peak
5 p	7320.000	9.21	35.70	61.98	70.96	53.89	74.00	-20.11	peak
6	9760.000	11.32	37.38	62.19	67.12	53.63	74.00	-20.37	peak



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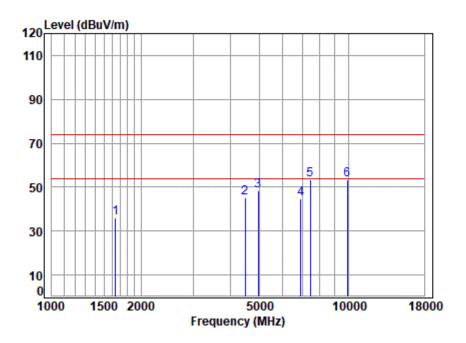


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Test Mode: 08; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 02298AT\02299AT Mode : 2475 RSE TX

		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	1639.274	4.87	26.41	61.70	66.42	36.00	74.00	-38.00	peak
2	4482.150	7.88	33.81	61.61	64.91	44.99	74.00	-29.01	peak
3	4960.000	8.06	34.56	62.01	67.80	48.41	74.00	-25.59	peak
4	6894.806	9.45	35.59	62.21	61.83	44.66	74.00	-29.34	peak
5 p	7440.000	9.09	35.96	61.92	70.31	53.44	74.00	-20.56	peak
6	9920.000	11.23	37.30	62.24	67.14	53.43	74.00	-20.57	peak



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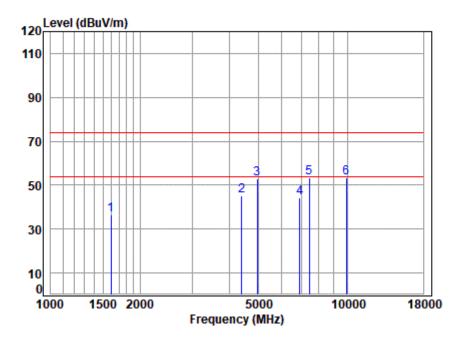


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Test Mode: 08; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL

: 02298AT\02299AT Mode : 2475 RSE TX

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1597.181	4.78	26.81	61.69	66.58	36.48	74.00	-37.52	peak
2	4405.090	7.99	34.74	61.55	64.03	45.21	74.00	-28.79	peak
3	4960.000	8.06	34.56	62.01	72.40	53.01	74.00	-20.99	peak
4	6894.806	9.45	35.59	62.21	61.50	44.33	74.00	-29.67	peak
5 p	7440.000	9.09	35.96	61.92	70.47	53.60	74.00	-20.40	peak
6	9920.000	11.23	37.30	62.24	67.07	53.36	74.00	-20.64	peak



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7.5 Conducted Average Output Power

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

Limit:

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

7.5.1 E.U.T. Operation

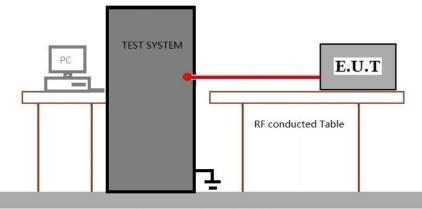
Operating Environment:

24.1 °C Temperature: Humidity: 58.0 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode_Keep the EUT in continuously transmitting with O-QPSK modulation mode.

7.5.3 Test Setup Diagram



Ground Reference Plane



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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

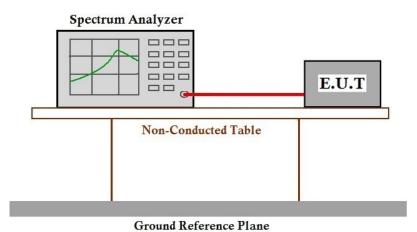
Operating Environment:

Temperature: 24.1 °C Humidity: 58.0 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode_Keep the EUT in continuously transmitting with O-QPSK modulation mode.

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

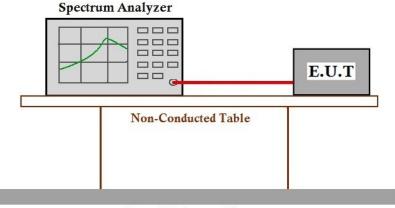
Operating Environment:

Temperature: 24.1 °C Humidity: 58.0 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode_Keep the EUT in continuously transmitting with O-QPSK modulation mode.

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

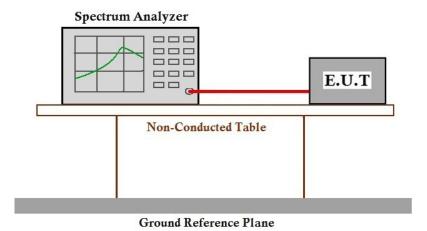
Operating Environment:

Temperature: 24.1 °C Humidity: 58.0 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode_Keep the EUT in continuously transmitting with O-QPSK modulation mode.

7.8.3 Test Setup Diagram



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

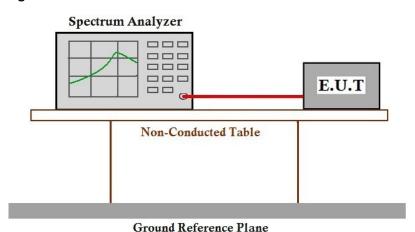
Operating Environment:

Temperature: 24.1 °C Humidity: 58.0 % RH Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode_Keep the EUT in continuously transmitting with O-QPSK modulation mode.

7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data



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Please Refer to Appendix for Details



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Test Setup Photo 8

Refer to Appendix – Test Setup Photos for SZCR2406002298AT



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EUT Constructional Details (EUT Photos) 9

Refer to Appendix - Photographs of EUT Constructional Details for SZCR2406002298AT



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10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
	Zigbee SISO	2405	0.509	3.100	16.42	7.85	0.03
Zigbee		2445	0.509	3.100	16.42	7.85	0.03
		2475	0.507	3.100	16.35	7.86	0.03



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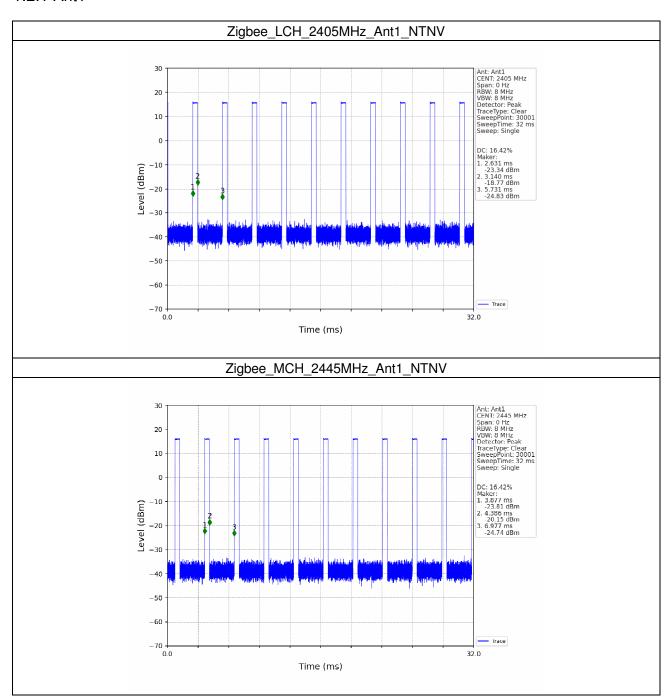
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1.2 Test Graph

1.2.1 Ant1





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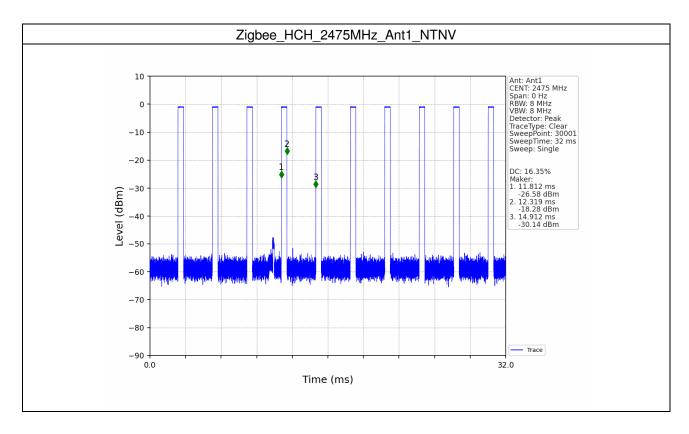
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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mada	TX	Frequency	ANT	99% Occupied E	Mondiet	
Mode	Type	(MHz)	AINT	Result	Limit	Verdict
		2405	1	2.174	/	Pass
Zigbee	SISO	2445	1	2.370	/	Pass
		2475	1	2.564	/	Pass

2.1.2 6dB BW

Mada	TX	Frequency	ANIT	6dB Bandv	\/audiat	
Mode	Type	(MHz)	ANT	Result	Limit	Verdict
	SISO	2405	1	1.284	>=0.5	Pass
Zigbee		2445	1	1.411	>=0.5	Pass
		2475	1	1.528	>=0.5	Pass



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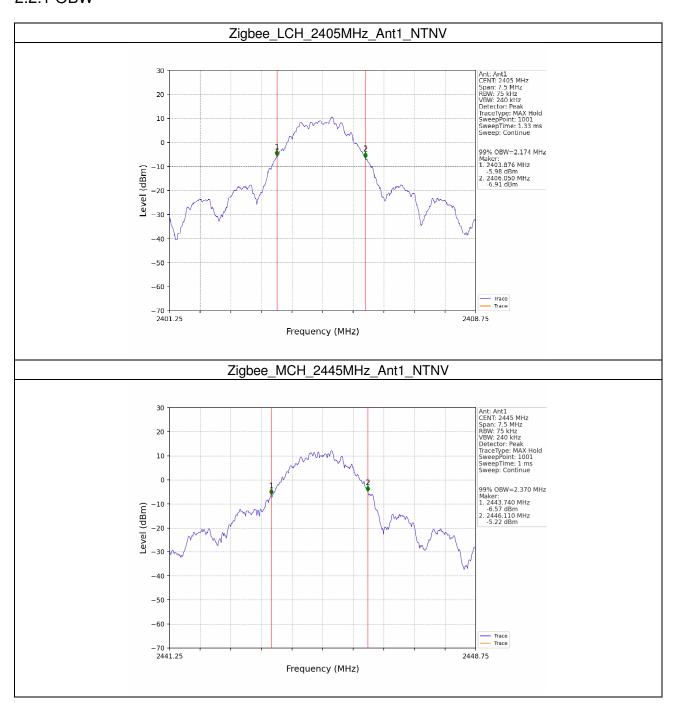
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2.2 Test Graph

2.2.1 OBW





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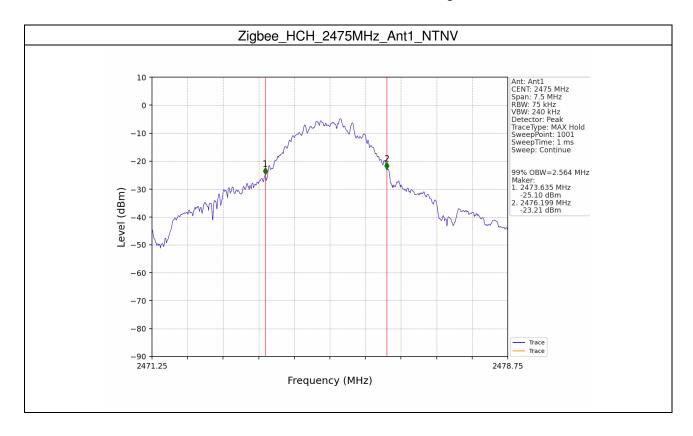
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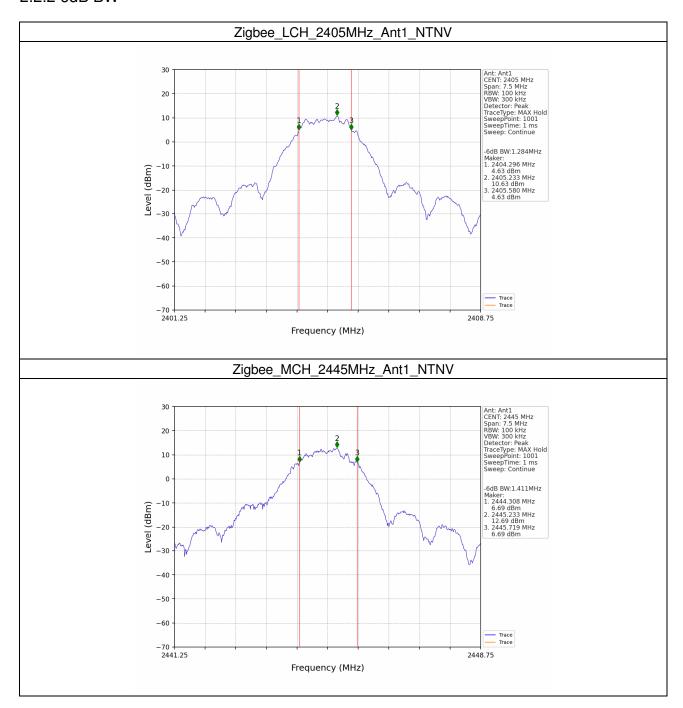


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2.2.2 6dB BW





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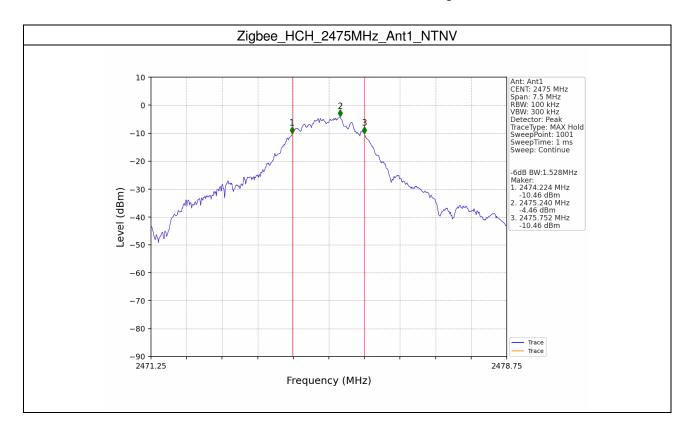
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3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX	Frequency	Maximum Average Co (dE	Verdict	
	Type	(MHz)	ANT1	Limit	
	SISO	2405	16.03	<=30	Pass
Zigbee		2445	16.35	<=30	Pass
		2475	-0.96	<=30	Pass

4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mada	TX	Frequency	Maximum PSI	Vordiet	
Mode	Туре	(MHz)	ANT1	Limit	Verdict
		2405	5.94	<=8	Pass
Zigbee	SISO	2445	6.87	<=8	Pass
		2475	-10.63	<=8	Pass



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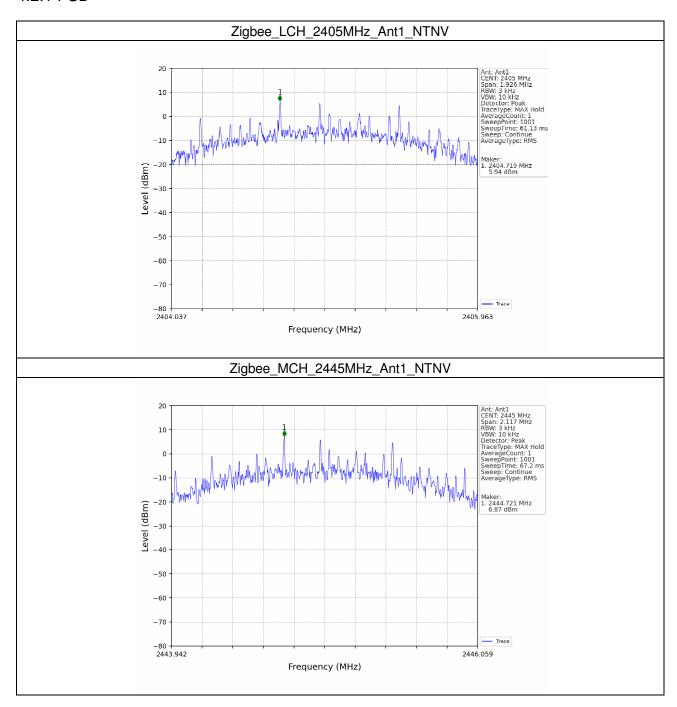
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4.2 Test Graph

4.2.1 PSD





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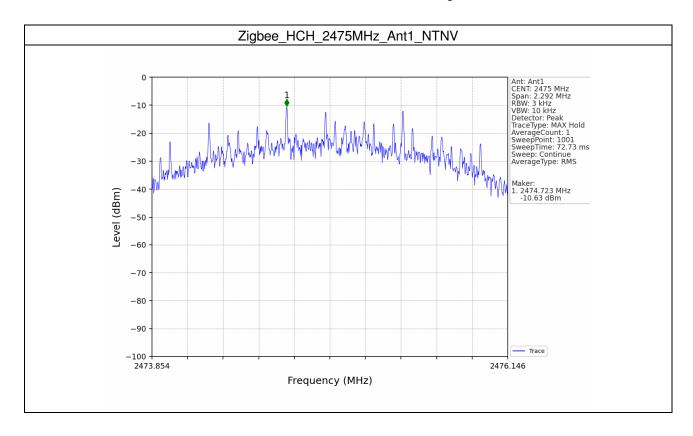
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
	SISO	2405	1	12.38
Zigbee		2445	1	12.56
		2475	1	-4.61

5.1.2 CSE

	Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
Ī			2405	1	12.56	-7.44	Pass
	Zigbee	SISO	2445	1	12.56	-7.44	Pass
			2475	1	12.56	-7.44	Pass



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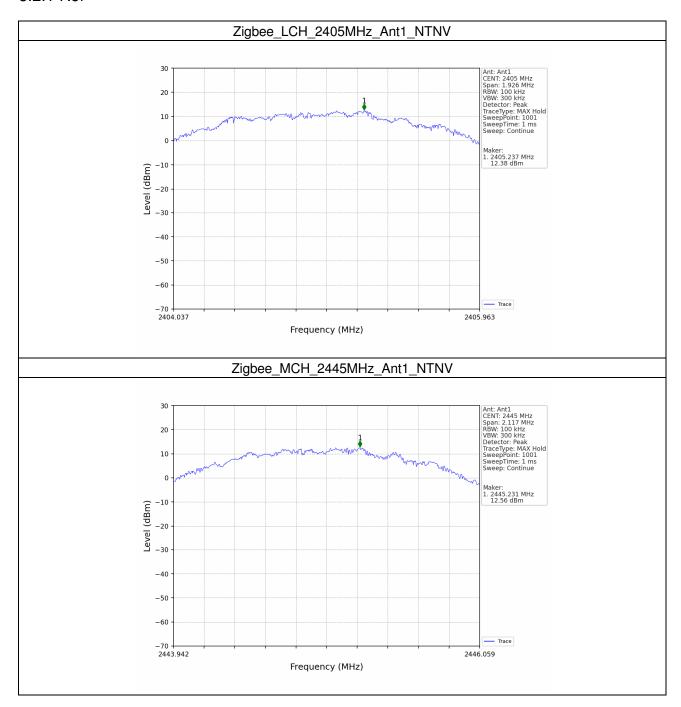
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5.2 Test Graph

5.2.1 Ref





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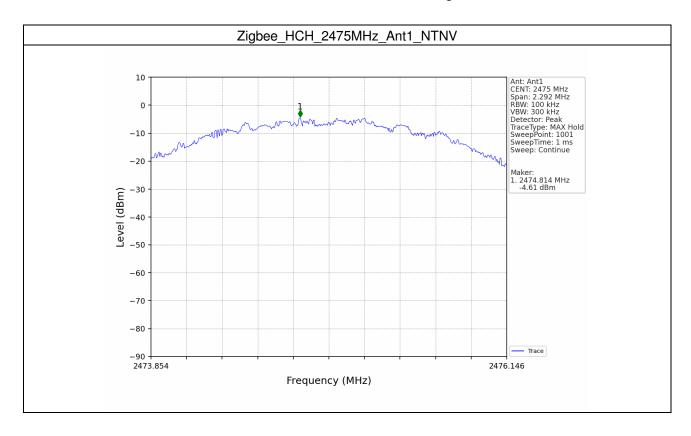
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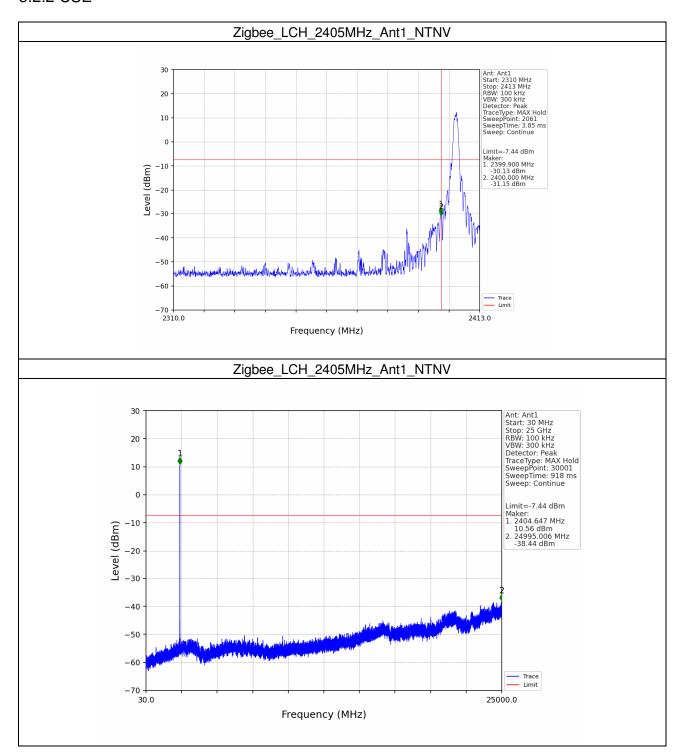


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5.2.2 CSE





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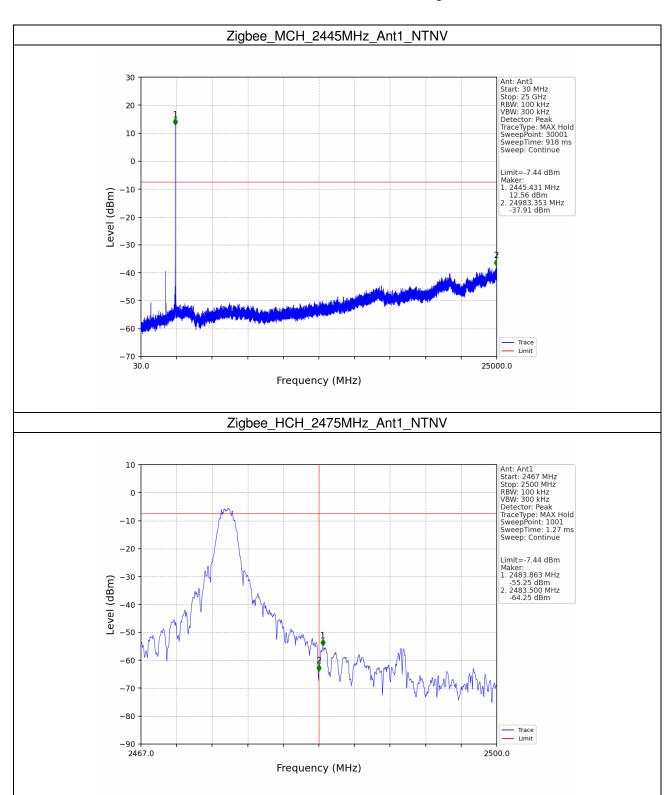
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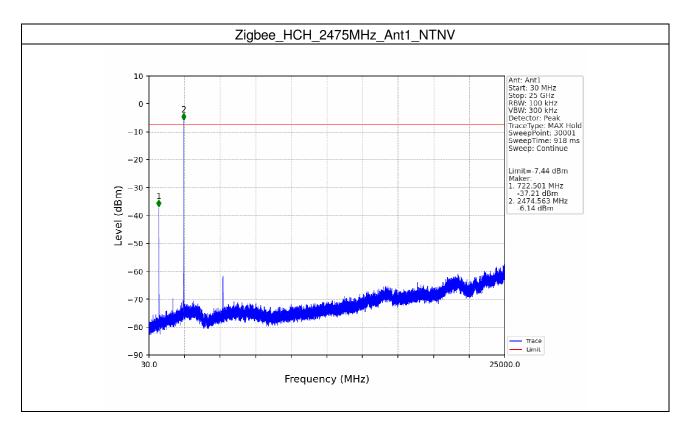
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