

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210103 Page: 1 of 90

# TEST REPORT

Application No.:	n No.: SZCR2406002101MO			
Applicant:	Shanghai Sunmi Technology Co.,Ltd.			
Address of Applicant:	Room 505,No.388,Song Hu Road,Yang Pu District,Shanghai,China			
Manufacturer:	Shanghai Sunmi Technology Co.,Ltd.			
Address of Manufacturer:	Room 505,No.388,Song Hu Road,Yang Pu District,Shanghai,China			
EUT Description:	Smart Module			
Model No.:	QLB12-21			
Trade Mark:	SUNMI			
FCC ID:	2AH2524QLB1221			
Standard(s) :	47 CFR Part 15, Subpart C 15.247			
Date of Receipt:	2024-06-04			
Date of Test:	2024-06-08 to 2024-07-12			
Date of Issue:	2024-07-16			
Test Result:	Pass*			

\* In the configuration tested, the EUT complied with the standards specified above.

Keny. KN

Keny Xu EMC Laboratory Manager



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Revision Record							
Version	Version Chapter Date Modifier Remark						
01		2024-07-16		Original			

Authorized for issue by:	
	porjon. in ang
	Donjon Huang/Project Engineer
	Erric Fu
	Eric Fu/Reviewer



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#### 2 **Test Summary**

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

Radio Spectrum Matter Part						
ltem	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,	ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		
Conducted Peak Output Power	Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass		
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass		
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass		
Conducted Band Edges Measurement		ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass		
Conducted Spurious Emissions		ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass		



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# 4 General Information

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

EUT Description:	Smart Module			
Model No.:	QLB12-21			
Trade Mark:	SUNMI			
Hardware Version:	R1.0			
Software Version:	SG656VGLNUR01A04			
Power Supply:	DC 4V			
Operation Frequency:	2400MHz~2483.5MHz fc = 2402 MHz + N * 2 MHz, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 39.			
Bluetooth version:	Bluetooth V5.1			
Modulation Type:	GFSK			
Number of Channel:	40			
Rates Type*:	Provided by client			
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1M PHY 2M PHY			
Antenna Type:	🖾 External, 🔲 Integrated			
	2dBi			
Antenna Gain:	Note: The antenna gain are derived from the gain information report provided			
	by the manufacturer.			
RF Cable:	2000MHz ~ 3000MHz (1.1dB)			
Remark:	ided and confirmed by the applicant. SGS is not liable to the accuracy			

As above information is provided and confirmed by the applicant. 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.			
Mother board	Sunmi	SMART-5G-EVB_V1.3			
Adapter	Dong Guan City GangQi Electronic Co.,Ltd	GQ36-120300-AX			
Remark: all above the information of table are provided by client.					



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#### 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	$\pm$ 6.0dB for 3m; $\pm$ 5.0dB for 10m
Radiated Spurious Emissions Above 1GHz	± 4.6dB (1-18GHz);± 4.8dB (18- 40GHz)
Conducted Peak Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB

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						
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	
Copyiel Cable	505	N1/A		2023-07-07	2024-07-06	
Coaxial Cable	SGS N/A SEM024-01		2024-07-06	2025-07-05		
LISN	Rohde&Schwarz	ENV216	SEM007-01	2023-09-19	2024-09-18	
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	Tonscend	JS32-RSE V4.0.0	SZ-WRG-S-058	N/A	N/A	
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2022-01-05	2025-01-04	
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	HTC-1	SZ-WRG-M-077	2024-05-28	2025-05-27	

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	2023-10-19	2024-10-18			
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			
Cooviel Coble	808	N/A	SEM025-01	2023-07-07	2024-07-06			
Cuaxial Cable	Coaxial Cable SGS		3EIVI025-01	2024-07-06	2025-07-05			



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Radiated Spurious Emissions Above 1GHz							
Equipment	Manufacturer	Model No.	Model No. Inventory No.		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	Tonscend	JS32-RSE V4.0.0	SZ-WRG-S-058	N/A	N/A		
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2022-01-05	2025-01-04		
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	HTC-1	SZ-WRG-M-077	2024-05-28	2025-05-27		

RF Conducted Test							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18		
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13		
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A		
Copyiel Cable	808	N/A	SEM031-01	2023-07-07	2024-07-06		
Coaxial Cable	SGS	IN/A	SEI031-01	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		Inventory No.	Cal Date	Cal Due Date		
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2023-07-28	2024-07-27		
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2023-07-28	2024-07-27		
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17		



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#### **Radio Spectrum Technical Requirement** 6

### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

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

#### 6.1.2 Conclusion

#### 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 External Antenna on the main PCB and no consideration of replacement.

The best case gain of the antenna is 2dBi.\*

\*Note:

The antenna gain are derived from the gain information report provided by the manufacturer.

Remark:

As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.



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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:

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

#### 7.1.2 Test Mode Description

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.



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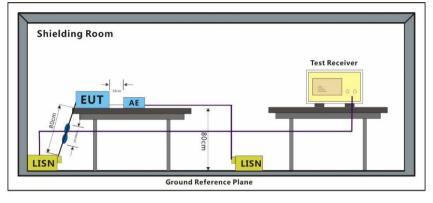
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#### 7.1.3 Test Setup Diagram



#### 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/50 $\mu$ H + 50hm 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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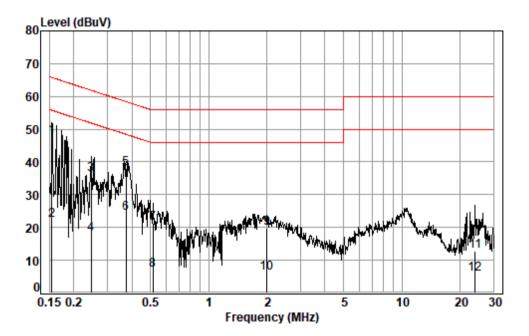
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Test Mode: 05; Line: Live line

Site : Shielding Room Condition: Line Job No. : 02101MO Test mode: 05

			Cable	LISN	Read		Limit	0ver	
		Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	-	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	*	0.1540	0.02	9.49	38.18	47.69	65.78	-18.09	QP
2		0.1540	0.02	9.49	12.68	22.19	55.78	-33.59	Average
3		0.2468	0.03	9.50	26.70	36.23	61.86	-25.63	QP
4		0.2468	0.03	9.50	8.57	18.10	51.86	-33.76	Average
5		0.3731	0.03	9.56	28.46	38.05	58.43	-20.38	QP
6	*	0.3731	0.03	9.56	14.87	24.46	48.43	-23.97	Average
7		0.5155	0.04	9.68	11.47	21.19	56.00	-34.81	QP
8		0.5155	0.04	9.68	-2.62	7.10	46.00	-38.90	Average
9		2.0012	0.07	9.46	10.25	19.78	56.00	-36.22	QP
10		2.0012	0.07	9.46	-3.33	6.20	46.00	-39.80	Average
11		24.0148	0.30	10.14	2.45	12.89	60.00	-47.11	QP
12		24.0148	0.30	10.14	-4.55	5.89	50.00	-44.11	Average



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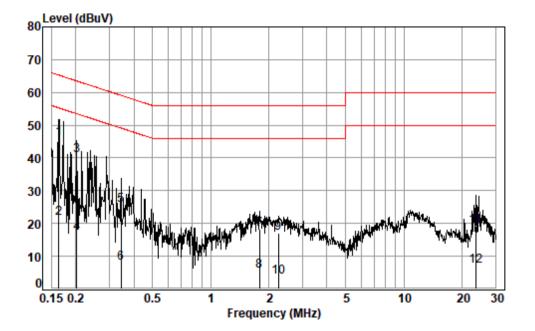
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Site :	Shielding	Room
Condition:	Neutral	
Job No. :	02101MO	
Test mode:	05	

			Cable	LISN	Read		Limit	0ver	
		Freq	Loss	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	*	0.1633	0.02	9.64	36.40	46.06	65.30	-19.24	QP
2	*	0.1633	0.02	9.64	11.98	21.64	55.30	-33.66	Average
3		0.2029	0.02	9.66	31.06	40.74	63.49	-22.75	QP
4		0.2029	0.02	9.66	7.38	17.06	53.49	-36.43	Average
5		0.3428	0.03	9.71	15.73	25.47	59.13	-33.66	QP
6		0.3428	0.03	9.71	-1.77	7.97	49.13	-41.16	Average
7		1.7905	0.07	9.77	8.33	18.17	56.00	-37.83	QP
8		1.7905	0.07	9.77	-4.44	5.40	46.00	-40.60	Average
9		2.2486	0.07	9.71	7.19	16.97	56.00	-39.03	QP
10		2.2486	0.07	9.71	-6.05	3.73	46.00	-42.27	Average
11		23.5112	0.30	10.34	8.53	19.17	60.00	-40.83	QP
12		23.5112	0.30	10.34	-3.75	6.89	50.00	-43.11	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:	24.1 °C	Humidity:	51.8 % RH	Atmospheric Pressure:	1020	mbar
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#### 7.2.2 Test Mode Description

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.
Final test	06	Charge + TX mode(2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.



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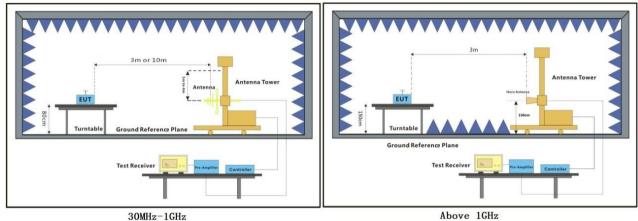
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#### 7.2.3 Test Setup Diagram





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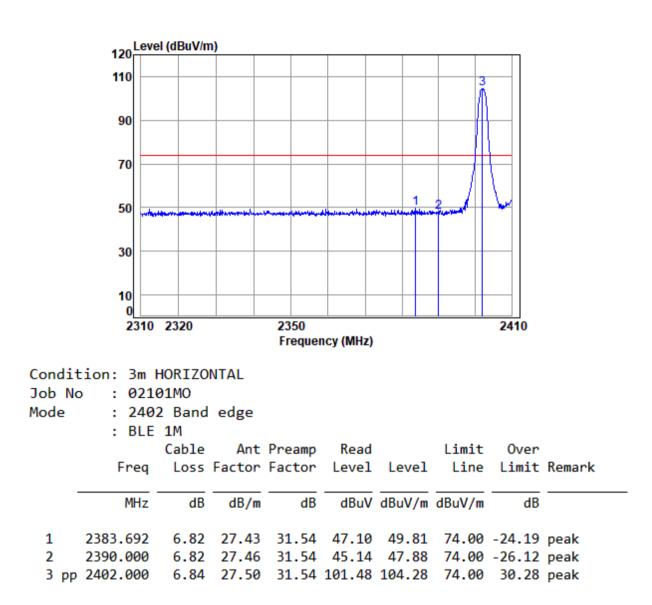
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Test Mode: 05; Polarity: Horizontal; Modulation:GFSK; Channel:Low





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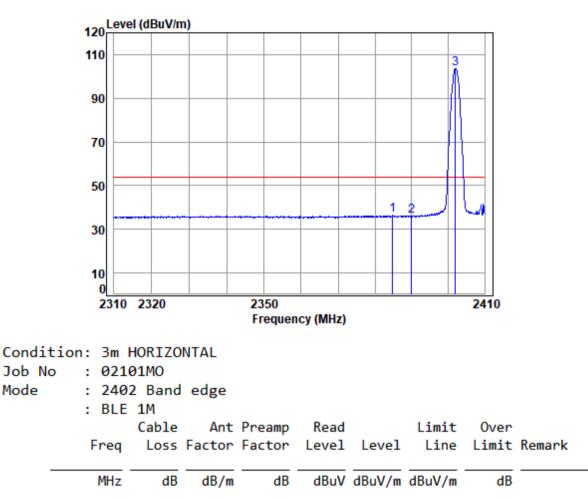
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1	2384.803	6.82	27.44	31.54	33.58	36.30	54.00	-17.70 Average
2	2390.000	6.82	27.46	31.54	33.30	36.04	54.00	-17.96 Average
3 pp	2402.000	6.84	27.50	31.54	100.82	103.62	54.00	49.62 Average



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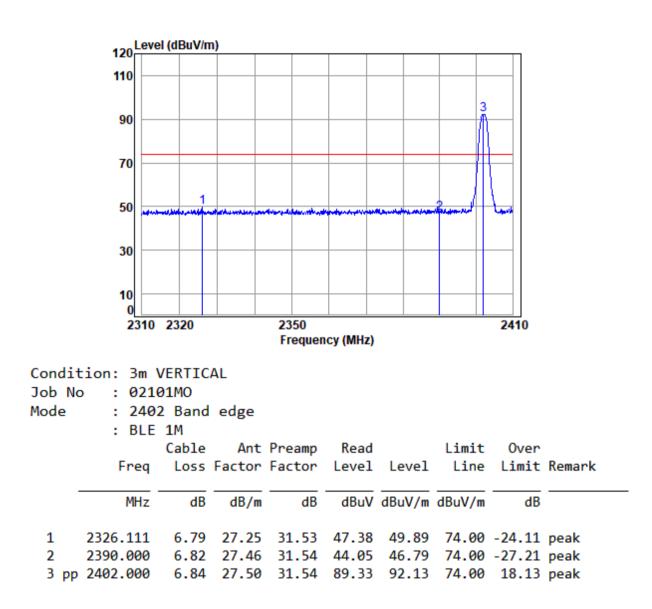
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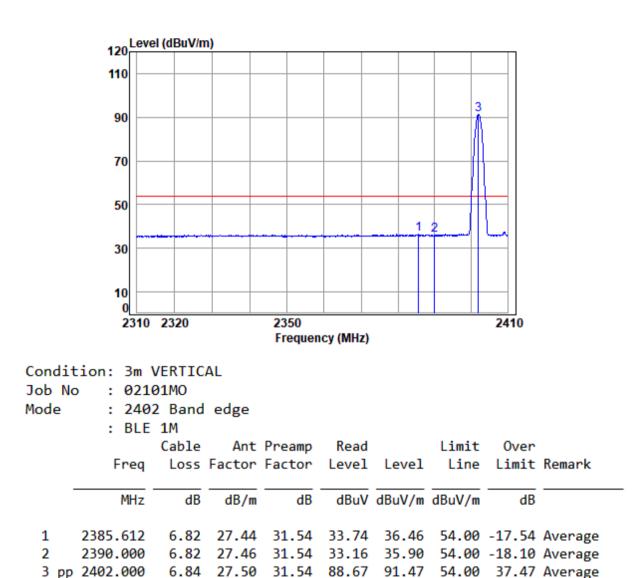
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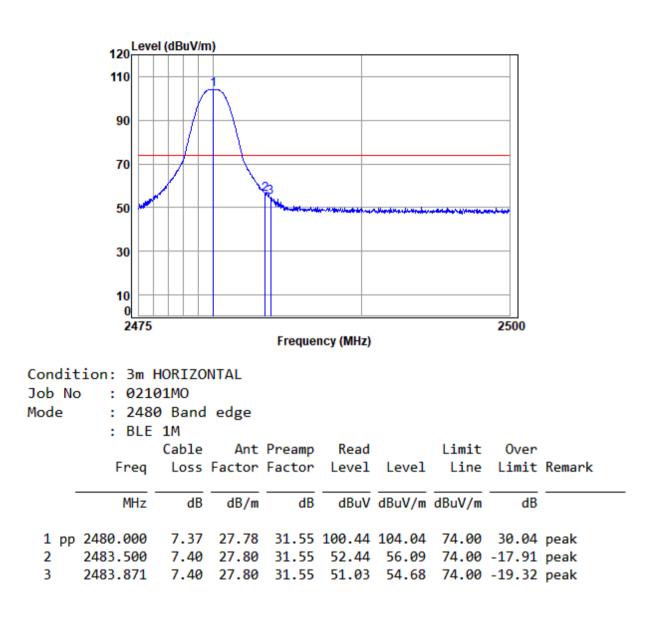
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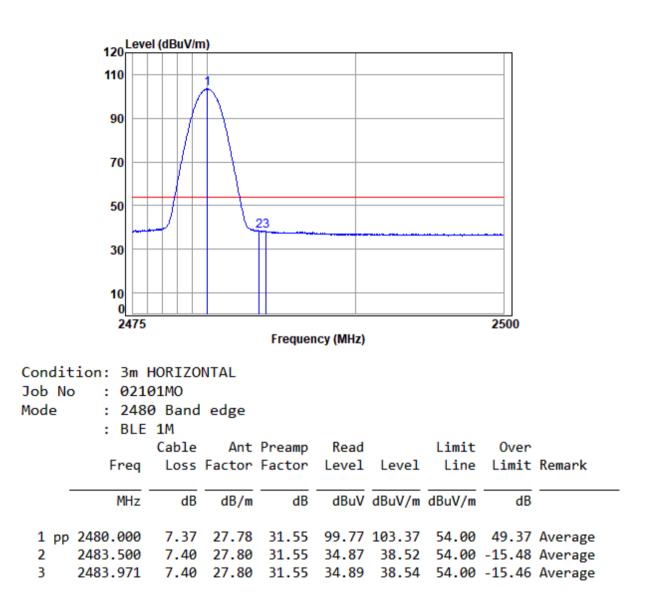
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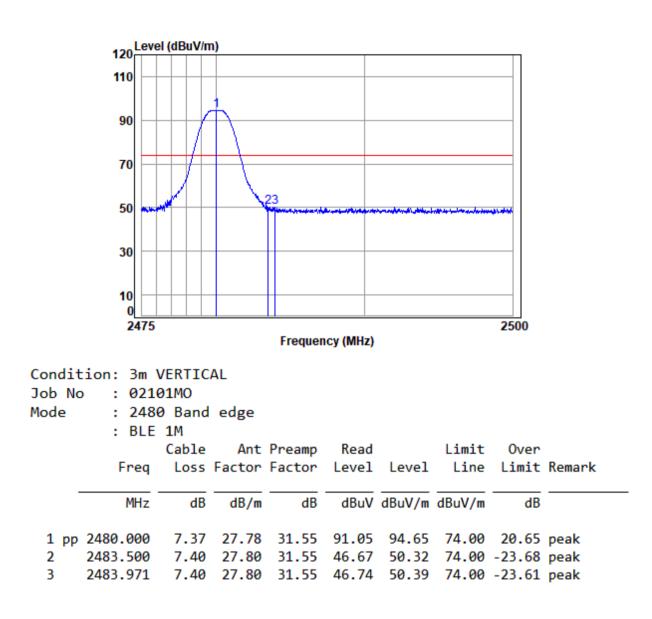
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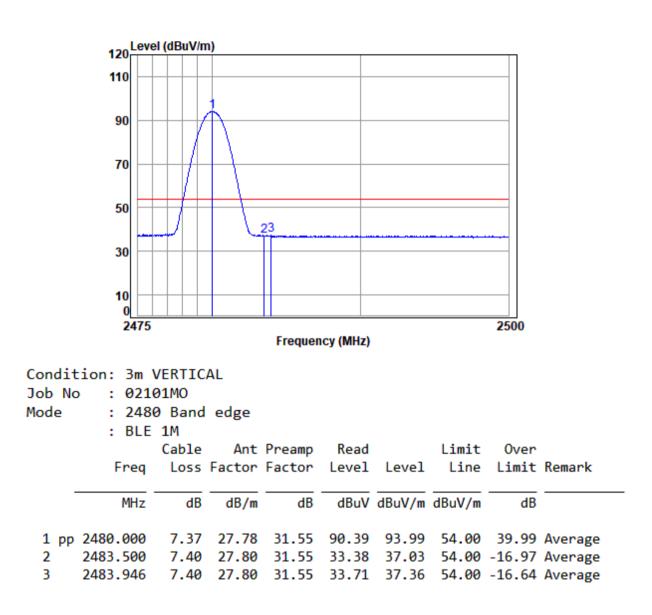
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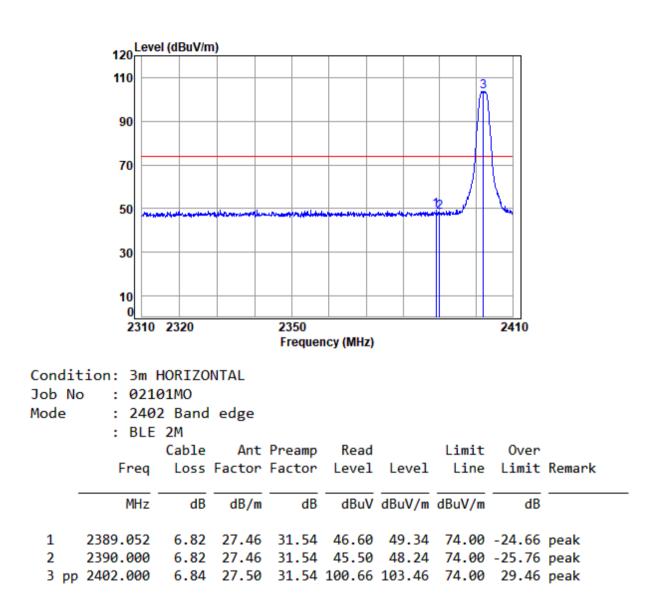
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Test Mode: 06; Polarity: Horizontal; Modulation:GFSK; Channel:Low





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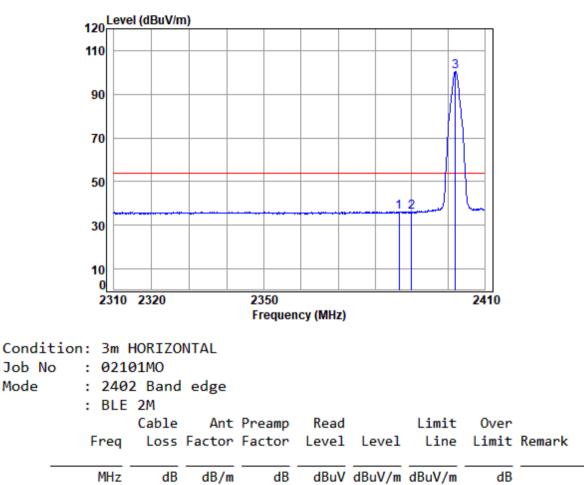
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Test Mode: 06; Polarity: Horizontal; Modulation:GFSK; Channel:Low



1	2386.522	6.82	27.45	31.54	33.50 36.23	54.00 -17.77 Average
2	2390.000	6.82	27.46	31.54	33.17 35.91	54.00 -18.09 Average
3 pp	2402.000	6.84	27.50	31.54	97.52 100.32	54.00 46.32 Average



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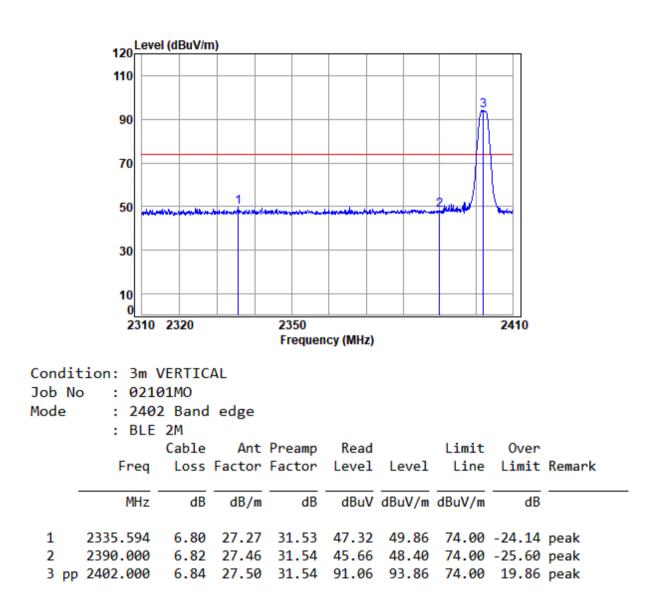
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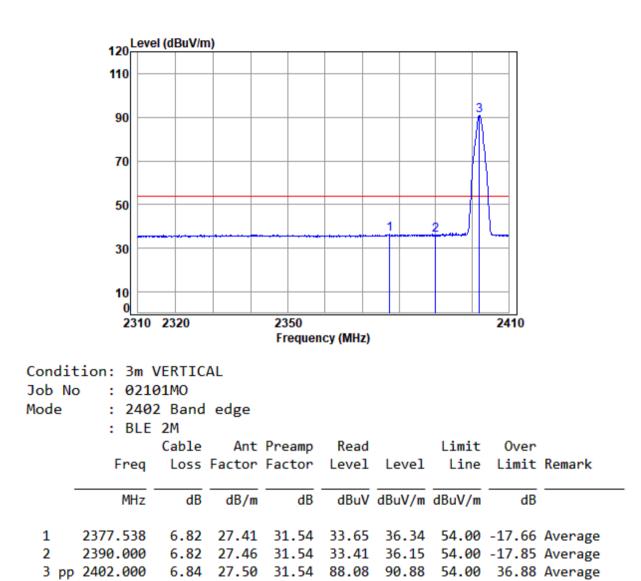
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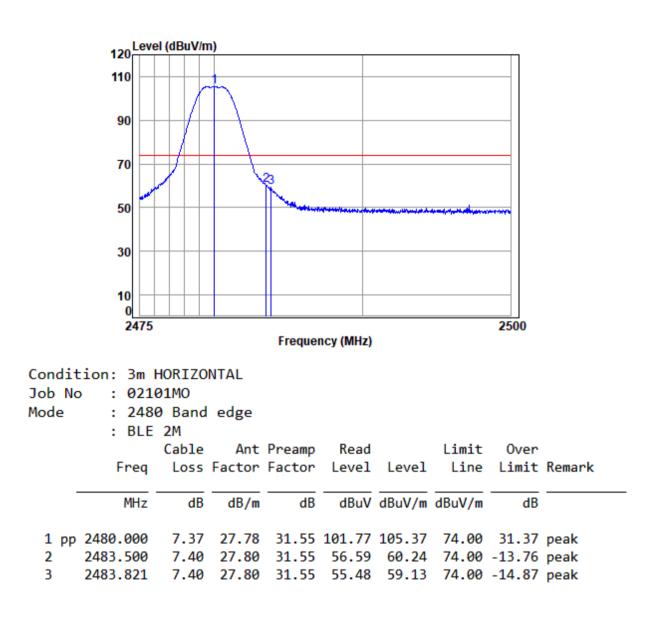
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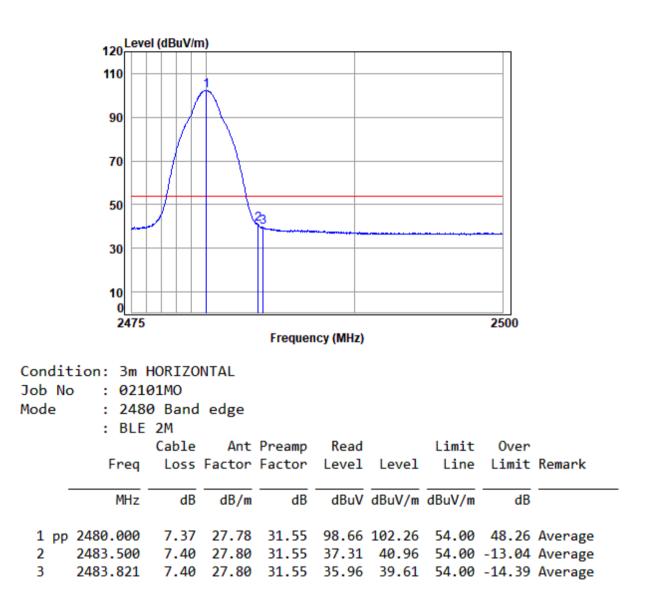
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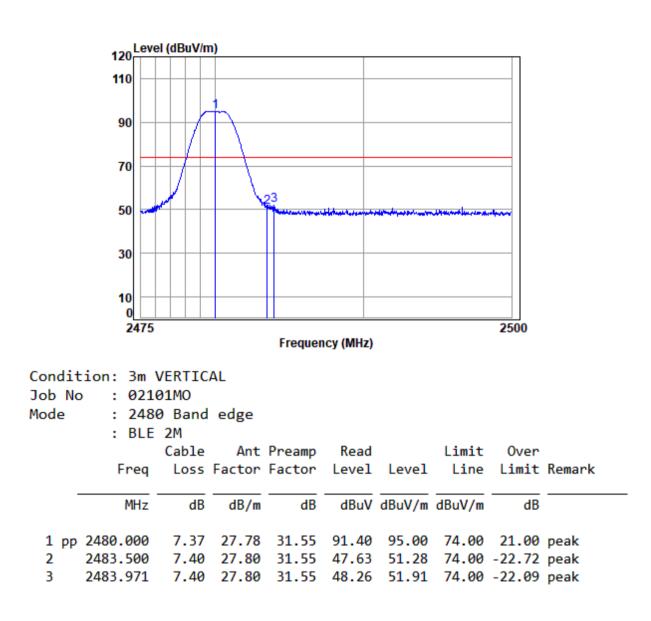
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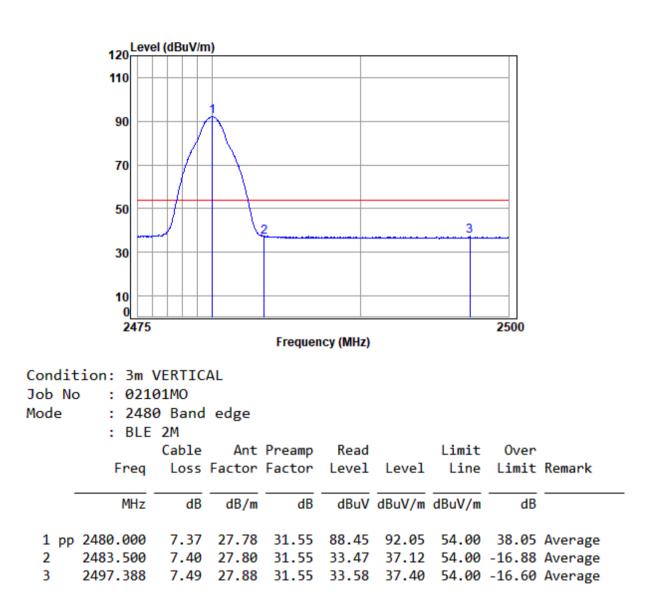
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Test Mode: 06; Polarity: Vertical; Modulation:GFSK; Channel:High





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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:	23.6 °C	Humidity:	52.3 % RH	Atmospheric Pressure:	1020	mbar
--------------	---------	-----------	-----------	-----------------------	------	------

#### 7.3.2 Test Mode Description

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.



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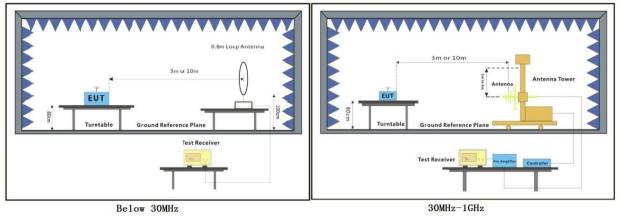
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#### 7.3.3 Test Setup Diagram



#### 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.



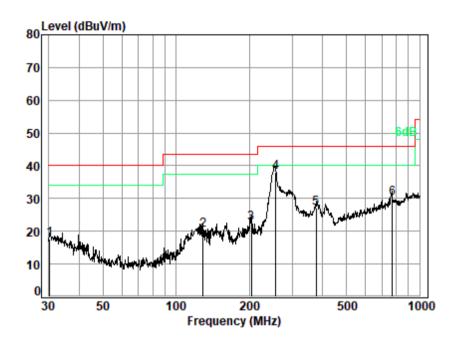
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Test Mode: 05; Polarity: Horizontal



Site :	chamber
Condition:	3m HORIZONTAL
Job No. :	02101MO
Test Mode:	05

		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	30.21	21.10	0.64	27.79	23.59	17.54	40.00	-22.46	QP
2	129.01	10.99	1.35	27.47	35.46	20.33	43.50	-23.17	QP
3	203.52	14.41	1.75	27.16	33.63	22.63	43.50	-20.87	QP
4 q	256.52	17.28	1.98	26.93	45.56	37.89	46.00	-8.11	QP
5	375.94	20.74	2.46	27.06	31.06	27.20	46.00	-18.80	QP
6	771.45	26.76	3.74	27.55	27.21	30.16	46.00	-15.84	QP
									-



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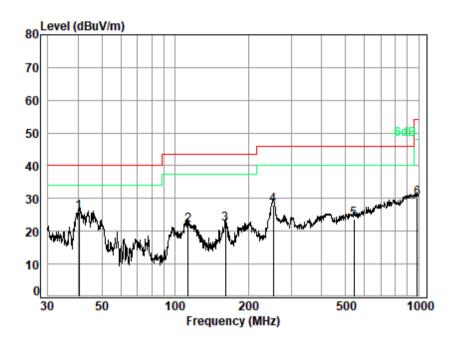
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Test Mode: 05; Polarity: Vertical



chamber
3m VERTICAL
02101MO
05

	Ant		Ant Ca		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 q	40.28	16.28	0.75	27.76	36.49	25.76	40.00	-14.24	QP			
2	113.32	11.57	1.26	27.53	36.48	21.78	43.50	-21.72	QP			
3	160.91	13.53	1.52	27.33	34.36	22.08	43.50	-21.42	QP			
4	252.95	17.28	1.96	26.95	35.71	28.00	46.00	-18.00	QP			
5	543.27	23.74	3.03	27.74	24.84	23.87	46.00	-22.13	QP			
6	986.07	28.04	4.31	26.15	23.84	30.04	54.00	-23.96	QP			



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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		

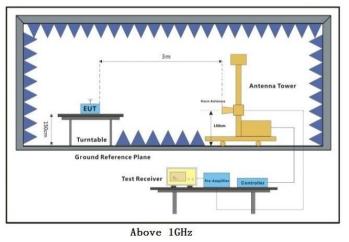
### 7.4.1 E.U.T. Operation

Operating Environment:						
Temperature:	24.4 °C	Humidity:	51.8 % RH	Atmospheric Pressure: 1020 m	nbar	

### 7.4.2 Test Mode Description

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.
Final test	06	Charge + TX mode(2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.

### 7.4.3 Test Setup Diagram





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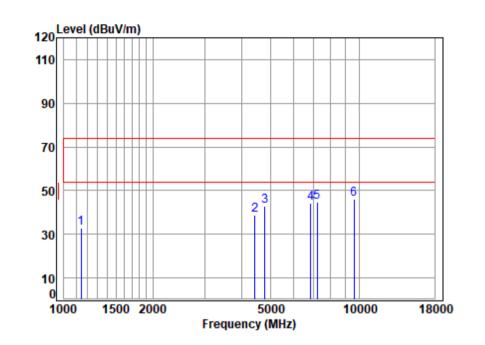
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Test Mode: 05; Polarity: Horizontal; Modulation:GFSK; Channel:Low



### Condition: 3m HORIZONTAL

Job	No	- :	02101MO	

Mode	: 240	2 TX R	SE						
	: 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	1145.507	7.14	25.42	54.70	54.86	32.72	74.00	-41.28	peak
2	4443.453	8.55	31.37	55.91	54.81	38.82	74.00	-35.18	peak
3	4804.000	8.90	31.92	56.16	58.06	42.72	74.00	-31.28	peak
4	6855.063	10.96	36.02	56.73	54.19	44.44	74.00	-29.56	peak
5	7206.000	11.10	36.60	56.54	53.33	44.49	74.00	-29.51	peak
6 p	p 9608.000	12.38	38.78	54.45	49.20	45.91	74.00	-28.09	peak



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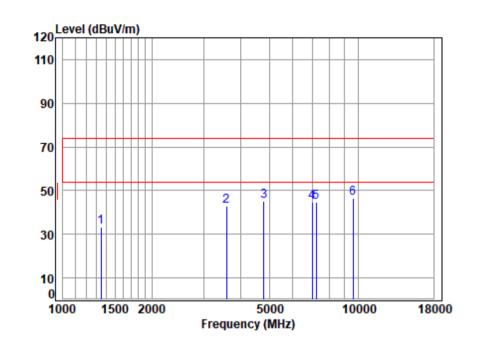
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Test Mode: 05; Polarity: Vertical; Modulation:GFSK; Channel:Low



#### Condition: 3m VERTICAL 10

Job No	- :	02101	M
Mode	:	2402	Т

: 2402 TX RSE

RIF 1M

		: DLL	TH							
			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	L	1346.769	7.18	25.11	54.70	55.54	33.13	74.00	-40.87	peak
2	2	3587.818	7.76	29.88	55.35	60.53	42.82	74.00	-31.18	peak
З	3	4804.000	8.90	31.92	56.16	60.29	44.95	74.00	-29.05	peak
4	ļ.	6995.172	10.96	36.19	56.70	54.05	44.50	74.00	-29.50	peak
5	5	7206.000	11.10	36.60	56.54	53.69	44.85	74.00	-29.15	peak
6	5 рр	9608.000	12.38	38.78	54.45	49.62	46.33	74.00	-27.67	peak



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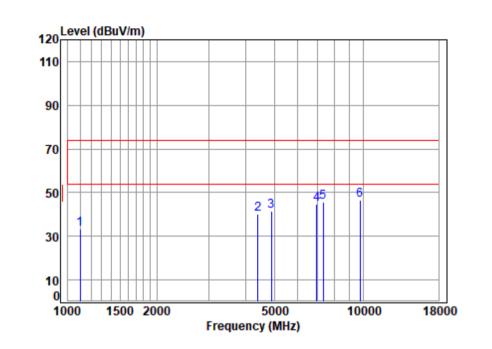
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Test Mode: 05; Polarity: Horizontal; Modulation:GFSK; Channel:middle



### Condition: 3m HORIZONTAL

Job	No	:	02101MO	

300 100		OTHO							
Mode	: 244	0 TX R	SE						
	: 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	1100.079	7.10	25.60	54.70	55.20	33.20	74.00	-40.80	peak
2	4405.090	8.54	31.22	55.88	56.16	40.04	74.00	-33.96	peak
3	4880.000	8.98	32.16	56.22	56.80	41.72	74.00	-32.28	peak
4	6954.852	10.95	36.11	56.71	54.32	44.67	74.00	-29.33	peak
5	7320.000	11.12	36.74	56.44	54.18	45.60	74.00	-28.40	peak
6 pp	9760.000	12.84	38.60	54.32	49.36	46.48	74.00	-27.52	peak



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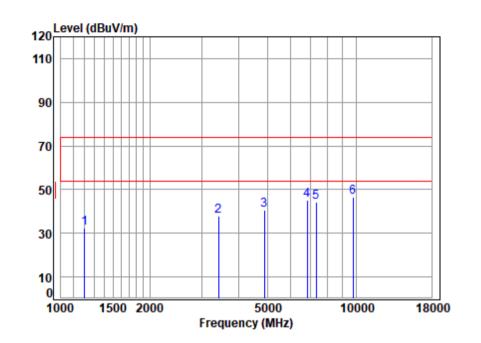
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210103 Page: 44 of 90

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



Condition:	3m VERTICAL
Job No :	02101M0

Job No	- 2	02101M
Mode		2440 T)

: 2440 TX RSE

: BLE 1M Cable Ant Preamp Limit **Over** Read Loss Factor Factor Line Limit Remark Frea Level Level MHz dB dB/m dB dBuV dBuV/m dBuV/m dB 25.30 54.70 54.63 1 1203.199 7.19 32.42 74.00 -41.58 peak 2 3425.675 7.67 29.35 55.26 56.07 37.83 74.00 -36.17 Peak 3 4880.000 8.98 32.16 56.22 55.69 40.61 74.00 -33.39 peak 4 6835.278 10.97 35.97 56.73 54.81 45.02 74.00 -28.98 peak 5 7320.000 11.12 36.74 56.44 52.66 44.08 74.00 -29.92 peak 12.84 38.60 54.32 49.40 46.52 74.00 -27.48 peak 6 pp 9760.000



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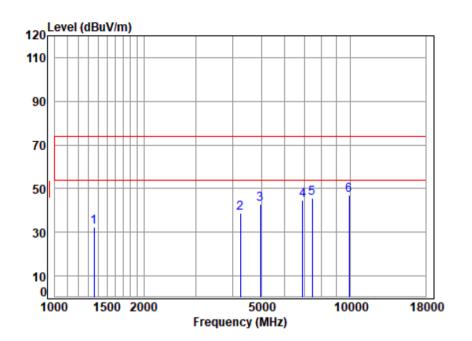
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210103 Page: 45 of 90

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



### Condition: 3m HORIZONTAL

Job No : 02101MO	
------------------	--

Mode

	0210100	
:	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	
1		1354.577	7.18	25.09	54.70	54.60	32.17	74.00	-41.83	peak
2		4242.641	8.48	31.06	55.77	54.90	38.67	74.00	-35.33	peak
3		4960.000	9.07	32.20	56.27	57.89	42.89	74.00	-31.11	peak
4		6914.763	10.94	36.17	56.72	54.54	44.93	74.00	-29.07	peak
5		7440.000	11.08	36.78	56.35	54.13	45.64	74.00	-28.36	peak
6		9920.000								-
										-



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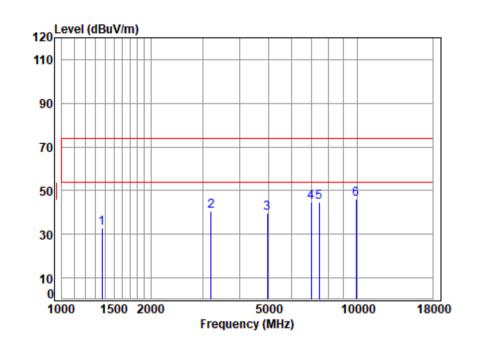
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210103 Page: 46 of 90

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



#### Condition: 3m VERTICAL MO

Job No	: 02101
Mode	: 2480

2480 TX RSE :

BLE 1M .

		TU							
		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	1366.374	7.19	25.07	54.70	55.09	32.65	74.00	-41.35	peak
2	3196.094	7.70	29.20	55.12	58.66	40.44	74.00	-33.56	peak
3	4960.000	9.07	32.20	56.27	54.63	39.63	74.00	-34.37	peak
4	6974.982	10.95	36.15	56.71	54.43	44.82	74.00	-29.18	peak
5	7440.000	11.08	36.78	56.35	53.05	44.56	74.00	-29.44	peak
6 pp	9920.000	12.73	38.90	54.17	48.79	46.25	74.00	-27.75	peak



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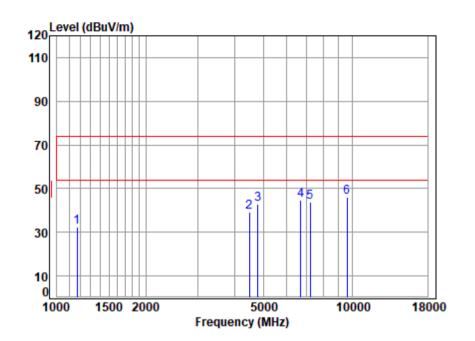
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210103 Page: 47 of 90

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



### Condition: 3m HORIZONTAL

Job No : 02101MO
------------------

300 NG	. 0210	OTHO							
Mode	: 240	2 TX R	SE						
	: 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	1168.920	7.16	25.36	54.70	54.55	32.37	74.00	-41.63	peak
2	4495.125	8.56	31.58	55.95	55.18	39.37	74.00	-34.63	peak
3	4804.000	8.90	31.92	56.16	58.11	42.77	74.00	-31.23	peak
4	6698.373	10.81	35.40	56.76	55.42	44.87	74.00	-29.13	peak
5	7206.000	11.10	36.60	56.54	52.78	43.94	74.00	-30.06	peak
6 pp	9608.000	12.38	38.78	54.45	49.51	46.22	74.00	-27.78	peak



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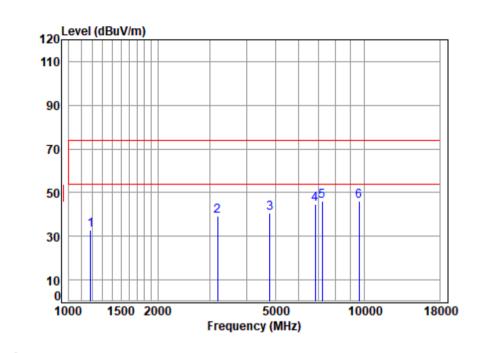
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210103 Page: 48 of 90

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



#### Condition: 3m VERTICAL 00101M0 1 51

Job No	- 1	02101	LΜ
Mode	:	2402	Т

: 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	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	57.52	39.31	74.00	-34.69	peak
3	4804.000	8.90	31.92	56.16	55.81	40.47	74.00	-33.53	peak
4	6835.278	10.97	35.97	56.73	54.33	44.54	74.00	-29.46	peak
5 pp	7206.000	11.10	36.60	56.54	54.97	46.13	74.00	-27.87	peak
6	9608.000	12.38	38.78	54.45	49.19	45.90	74.00	-28.10	peak



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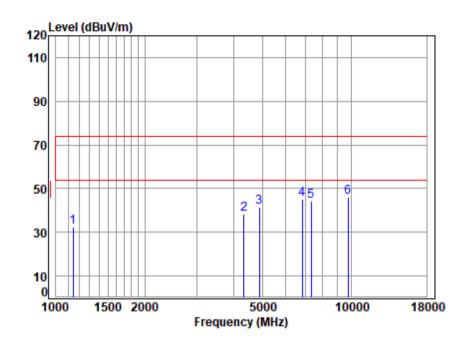
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210103 Page: 49 of 90

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



### Condition: 3m HORIZONTAL

Job No	:	02101MO
		DAAD TY DEE

Mode	: 244 : BLE	0 TX R 2M	SE						
		Cable		Preamp			Limit	0ver	Describ
	Freq	LOSS	Factor	Factor	Level	Level	Line	Limit	кетагк
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1145.507	7.14	25.42	54.70	54.34	32.20	74.00	-41.80	peak
2	4329.354	8.48	31.30	55.83	54.57	38.52	74.00	-35.48	peak
3	4880.000	8.98	32.16	56.22	56.70	41.62	74.00	-32.38	peak
4	6835.278	10.97	35.97	56.73	54.76	44.97	74.00	-29.03	peak
5	7320.000	11.12	36.74	56.44	52.88	44.30	74.00	-29.70	peak
6 pp	9760.000	12.84	38.60	54.32	48.79	45.91	74.00	-28.09	peak



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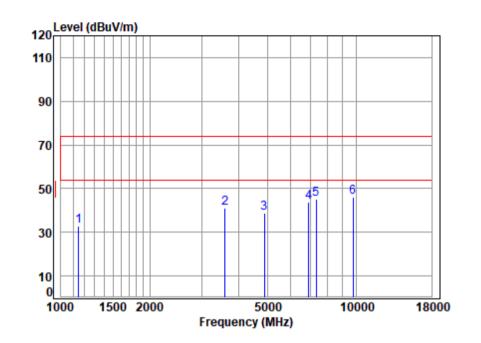
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210103 Page: 50 of 90

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



#### Condition: 3m VERTICAL 40

Job No	- 1	02101	Ν
Mode	:	2440	T

e	:	2440	ТΧ	RSE

: BLE 2M

		<b>2</b> 11							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
						-	-		
1	1148.823	7.14	25.40	54.70	54.85	32.69	74.00	-41.31	peak
2	3598.203	7.76	29.90	55.36	58.94	41.24	74.00	-32.76	peak
3	4880.000	8.98	32.16	56.22	53.95	38.87	74.00	-35.13	peak
4	6894.806	10.94	36.18	56.72	53.47	43.87	74.00	-30.13	peak
5	7320.000	11.12	36.74	56.44	53.60	45.02	74.00	-28.98	peak
6 p	op 9760.000								•
									-



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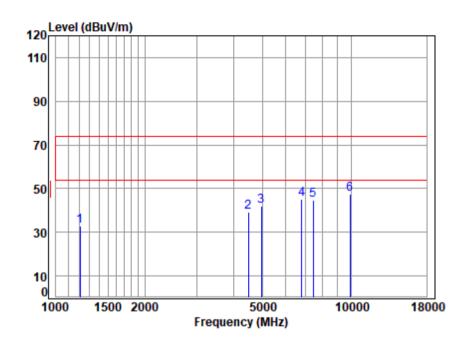
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210103 Page: 51 of 90

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



### Condition: 3m HORIZONTAL

Mode	: 248	0 TX R	SE						
	: 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	1206.682	7.19	25.30	54.70	54.91	32.70	74.00	-41.30	peak
2	4495.125	8.56	31.58	55.95	55.12	39.31	74.00	-34.69	peak
3	4960.000	9.07	32.20	56.27	56.96	41.96	74.00	-32.04	peak
4	6795.879	10.97	35.88	56.74	55.15	45.26	74.00	-28.74	peak
5	7440.000	11.08	36.78	56.35	53.02	44.53	74.00	-29.47	peak
6 pp	9920.000	12.73	38.90	54.17	49.80	47.26	74.00	-26.74	peak



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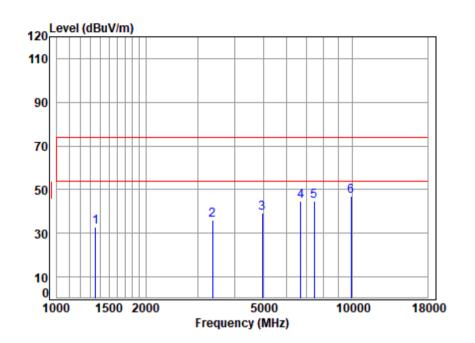
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210103 Page: 52 of 90

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



#### Condition: 3m VERTICAL 40

Job No	: 0	2101	١
Mode	: 2	480	

e	:	2480	ТΧ	RSE
e		2400	1	V2E

RIF 2M

	. DLL	ZPI								
		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	1350.667	7.18	25.10	54.70	55.11	32.69	74.00	-41.31	peak	
2	3366.778	7.63	29.23	55.22	54.21	35.85	74.00	-38.15	Peak	
3	4960.000	9.07	32.20	56.27	54.32	39.32	74.00	-34.68	peak	
4	6698.373	10.81	35.40	56.76	55.27	44.72	74.00	-29.28	peak	
5	7440.000	11.08	36.78	56.35	53.22	44.73	74.00	-29.27	peak	
6 pp	9920.000	12.73	38.90	54.17	49.43	46.89	74.00	-27.11	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

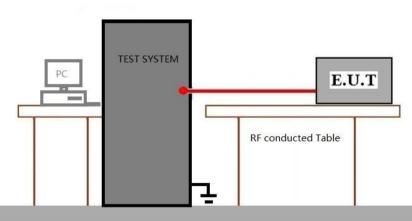
### 7.5.1 E.U.T. Operation

Operating Environment: Temperature: 24.9 °C

Humidity: 42.4 % RH

Atmospheric Pressure: 1020 mbar

#### 7.5.2 Test Setup Diagram



Ground Reference Plane

#### 7.5.3 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

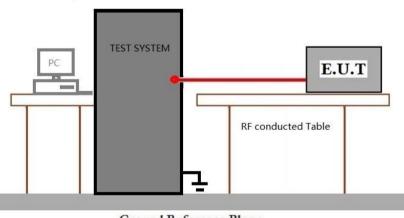
**Operating Environment:** 

Temp	erature:	24.9 °C	Humidity.	42.4 % RH	Atmospheric Pressure:	1020	mbar
romp	ciuluio.	24.0 0	riunnunty.			1020	mbai

#### 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	05	Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.
Final test	06	Charge + TX mode(2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.

#### 7.6.3 Test Setup Diagram



**Ground Reference Plane** 

#### 7.6.4 Measurement Procedure and Data

#### Please Refer to Appendix for Details



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### 7.7 Power Spectrum Density

Test Requirement47 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

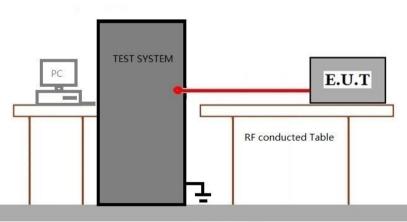
#### 7.7.1 E.U.T. Operation

Operating Enviro	nment:					
Temperature:	24.9 °C	Humidity:	42.4 % RH	Atmospheric Pressure:	1020	mbar

#### 7.7.2 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	05	Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.
Final test	06	Charge + TX mode(2Mbps)_Keep the EUT in charging and 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: 42.4 % RH

Atmospheric Pressure: 1020 mbar

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	05	Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.
Final test	06	Charge + TX mode(2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.

#### 7.8.2 Test Mode Description



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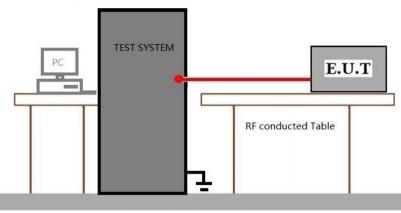
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#### 7.8.3 Test Setup Diagram



Ground Reference Plane

#### 7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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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: 42.4 % RH

Atmospheric Pressure: 1020 mbar

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	05	Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.
Final test	06	Charge + TX mode(2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.

#### 7.9.2 Test Mode Description



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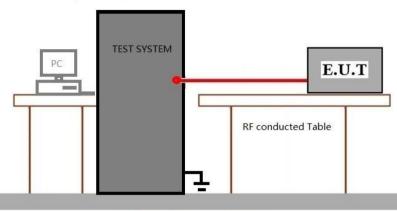
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#### 7.9.3 Test Setup Diagram



Ground Reference Plane

### 7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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

Refer to Appendix A.2 WLAN Setup Photos.



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#### Appendix 9

- 1. Duty Cycle
- 1.1 Test Result
- 1.1.1 Ant1

	Ant1							
Mode	ТХ Туре	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)	
		2402	0.393	0.625	62.88	2.01	0.00	
1M SISO	SISO	2440	0.393	0.625	62.88	2.01	0.00	
		2480	0.393	0.625	62.88	2.01	0.00	
		2402	0.208	0.625	33.28	4.78	0.00	
2M S	SISO	2440	0.209	0.625	33.44	4.76	0.00	
		2480	0.208	0.625	33.28	4.78	0.00	



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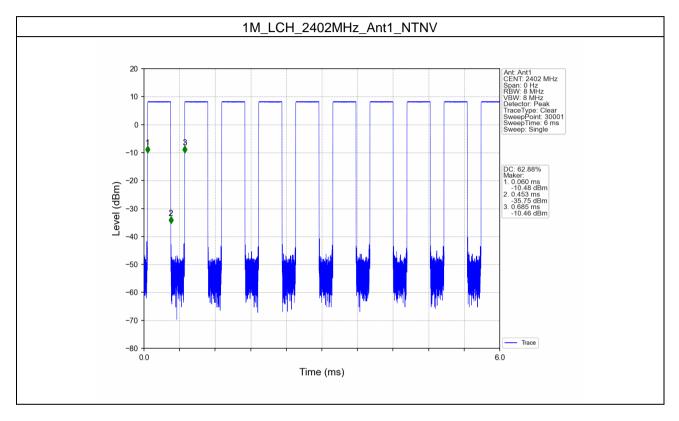


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### 1.2 Test Graph

### 1.2.1 Ant1





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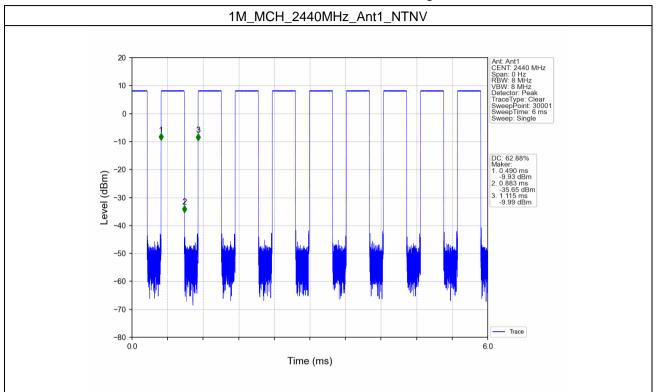
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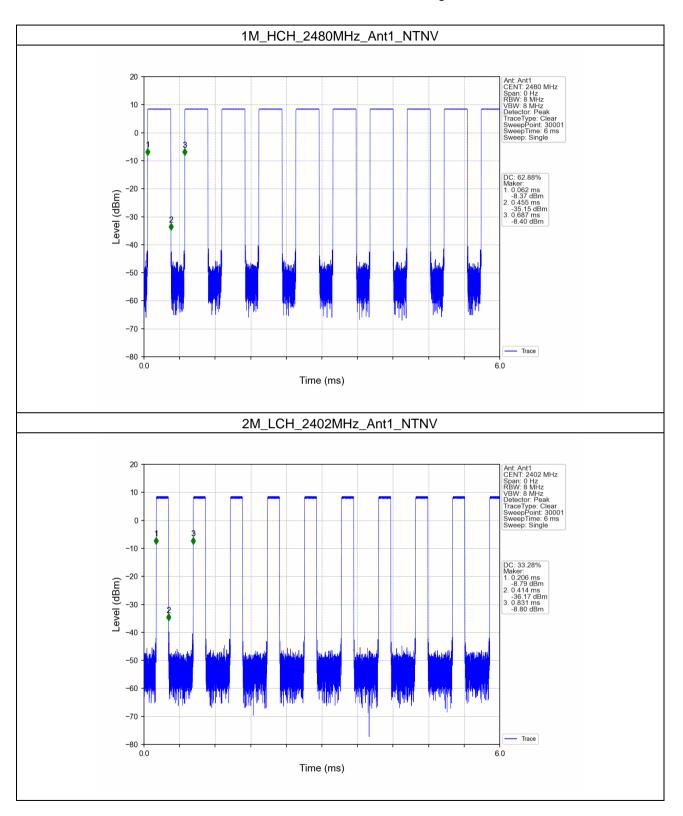
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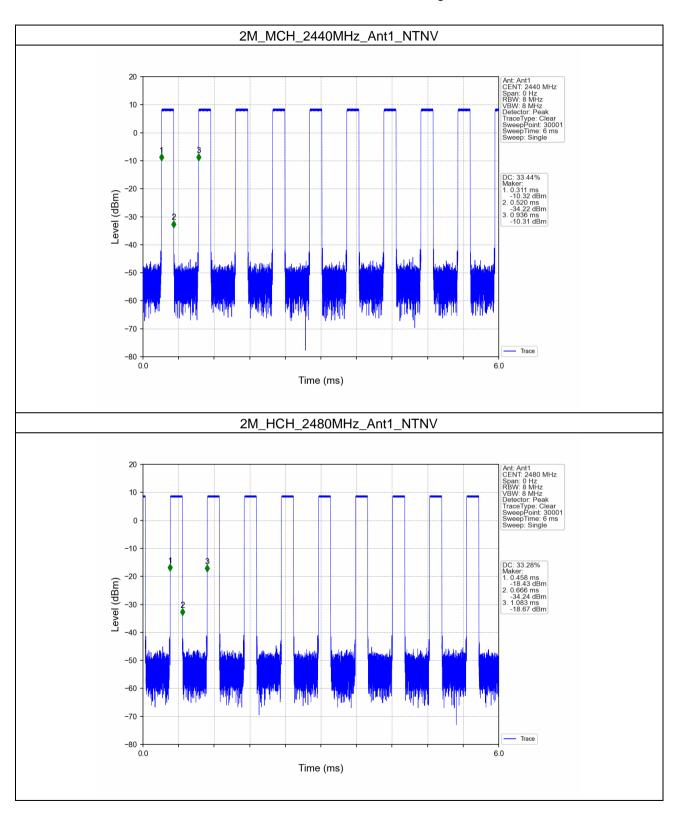
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### 2. Bandwidth

### 2.1 Test Result

### 2.1.1 OBW

Mode	ТΧ	Frequency (MHz)	ANT	99% Occupied E	Vordiot	
wode	Туре			Result	Limit	Verdict
	2402	1	1.035	/	Pass	
1M	SISO	2440	1	1.034	/	Pass
		2480	1	1.036	/	Pass
		2402	1	2.065	/	Pass
2M	SISO	2440	1	2.061	/	Pass
		2480	1	2.063	/	Pass

### 2.1.2 6dB BW

Mode	ТХ Туре	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Vordiet
				Result	Limit	Verdict
1M	SISO	2402	1	0.663	>=0.5	Pass
		2440	1	0.662	>=0.5	Pass
		2480	1	0.665	>=0.5	Pass
2M	SISO	2402	1	1.143	>=0.5	Pass
		2440	1	1.144	>=0.5	Pass
		2480	1	1.147	>=0.5	Pass



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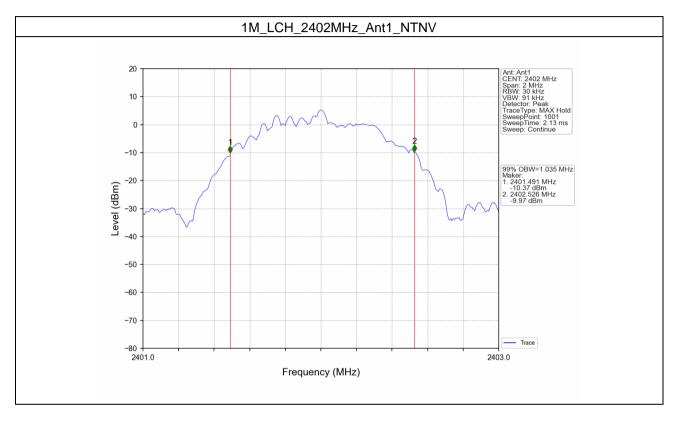


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### 2.2 Test Graph

### 2.2.1 OBW





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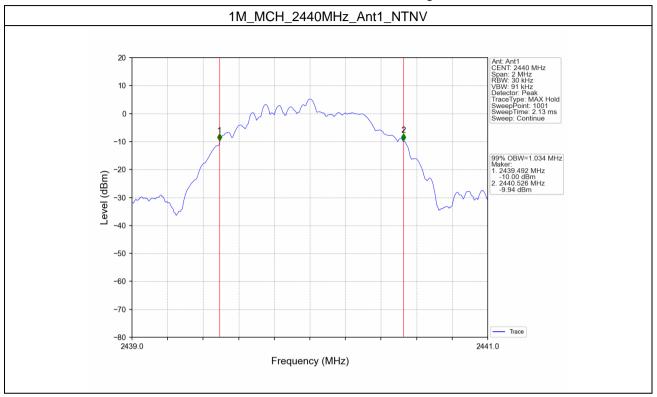
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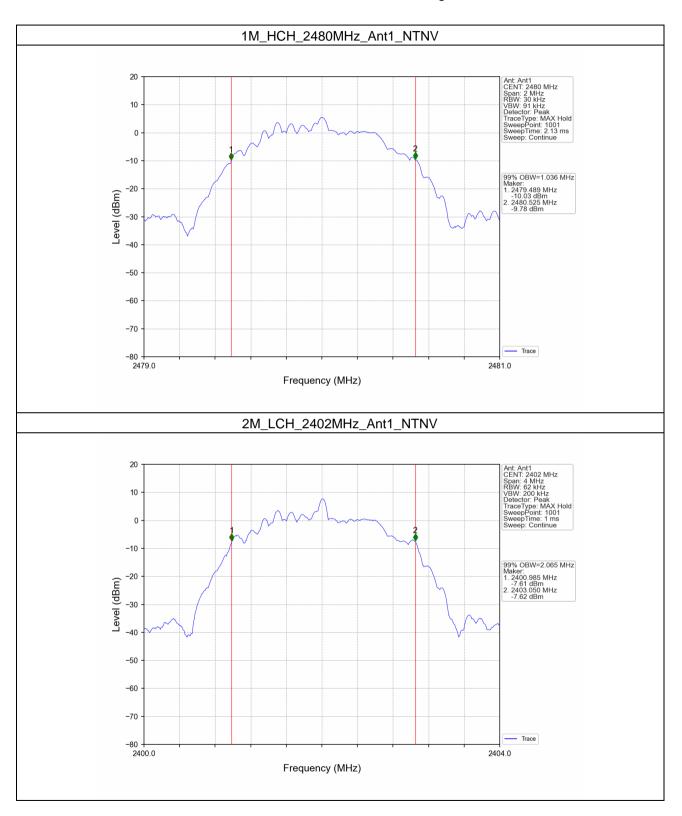
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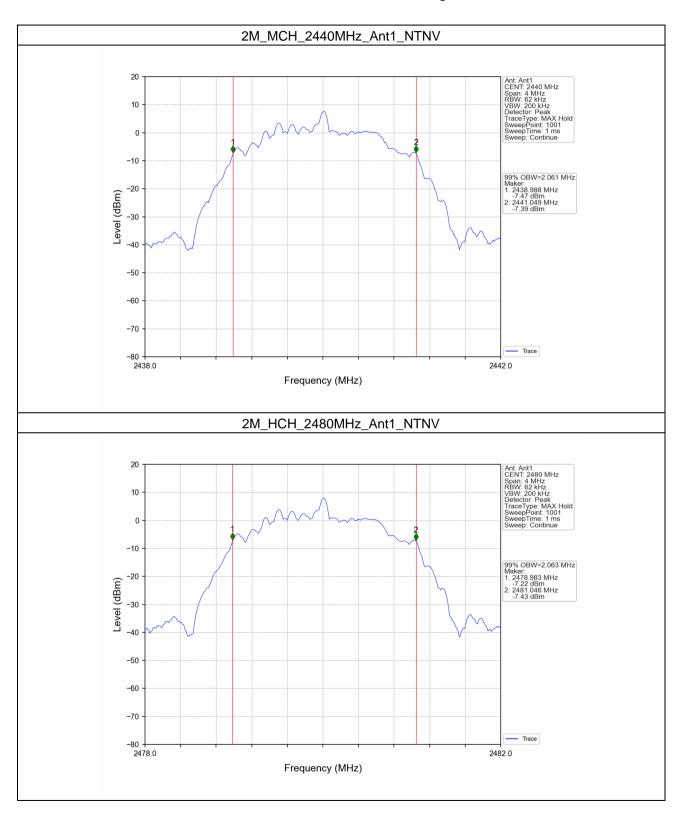
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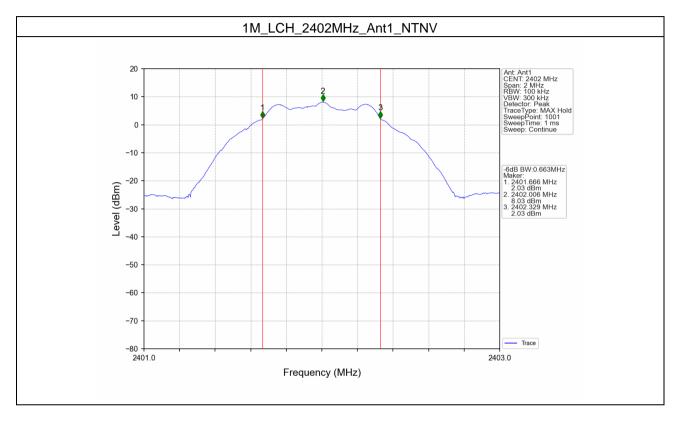
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2.2.2 6dB BW





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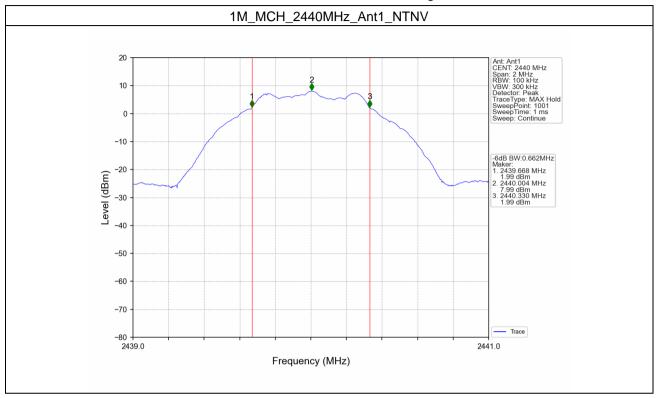
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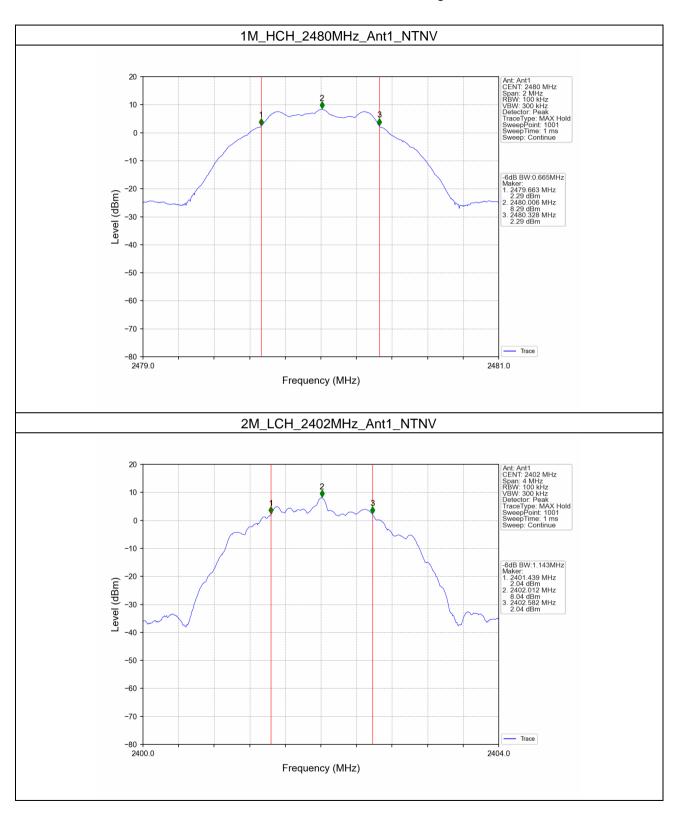
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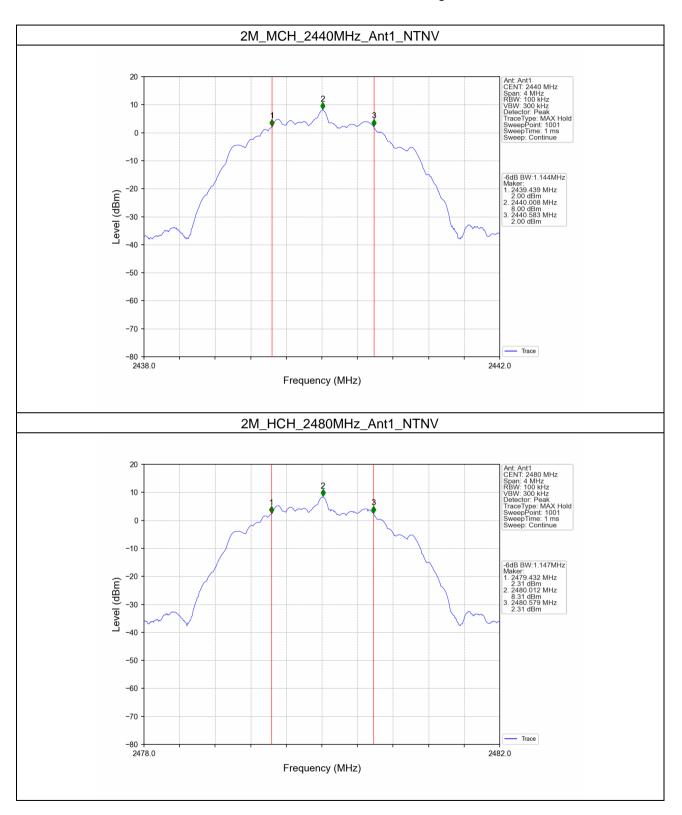
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### 3. Maximum Conducted Output Power

### 3.1 Test Result

#### 3.1.1 Power

Mode	TX	Frequency (MHz)	Maximum Peak Conduc	Vordiat		
	Туре		ANT1	Limit	Verdict	
1M	SISO	2402	8.22	<=30	Pass	
		2440	8.19	<=30	Pass	
		2480	8.50	<=30	Pass	
2M	SISO	2402	8.29	<=30	Pass	
		2440	8.28	<=30	Pass	
		2480	8.63	<=30	Pass	
Note1: Antenna Gain: Ant1: 2 00dBi						

Note1: Antenna Gain: Ant1: 2.00dBi;

### 4. Maximum Power Spectral Density

### 4.1 Test Result

#### 4.1.1 PSD

Mode	ТХ Туре	Frequency (MHz)	Maximum PSD (dBm/3kHz)		\/ordiat
			ANT1	Limit	Verdict
1M	SISO	2402	-6.38	<=8	Pass
		2440	-6.50	<=8	Pass
		2480	-6.12	<=8	Pass
2M	SISO	2402	-9.95	<=8	Pass
		2440	-9.94	<=8	Pass
		2480	-9.62	<=8	Pass



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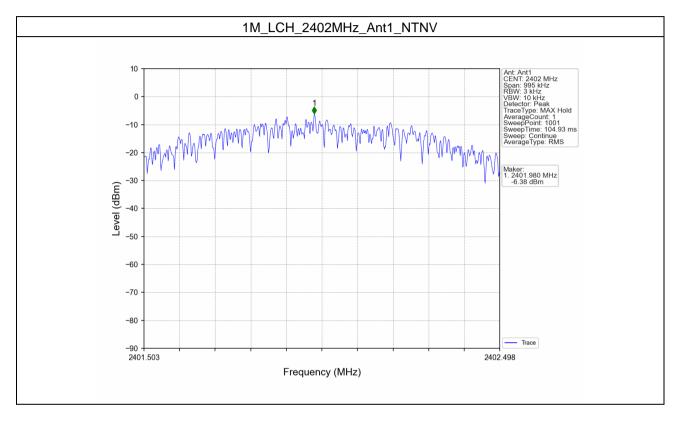


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### 4.2 Test Graph

#### 4.2.1 PSD





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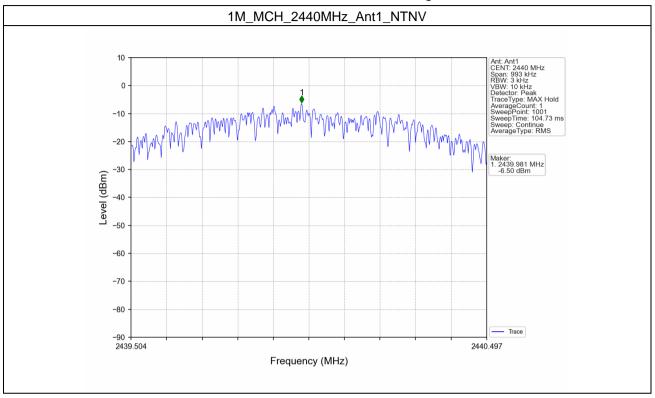
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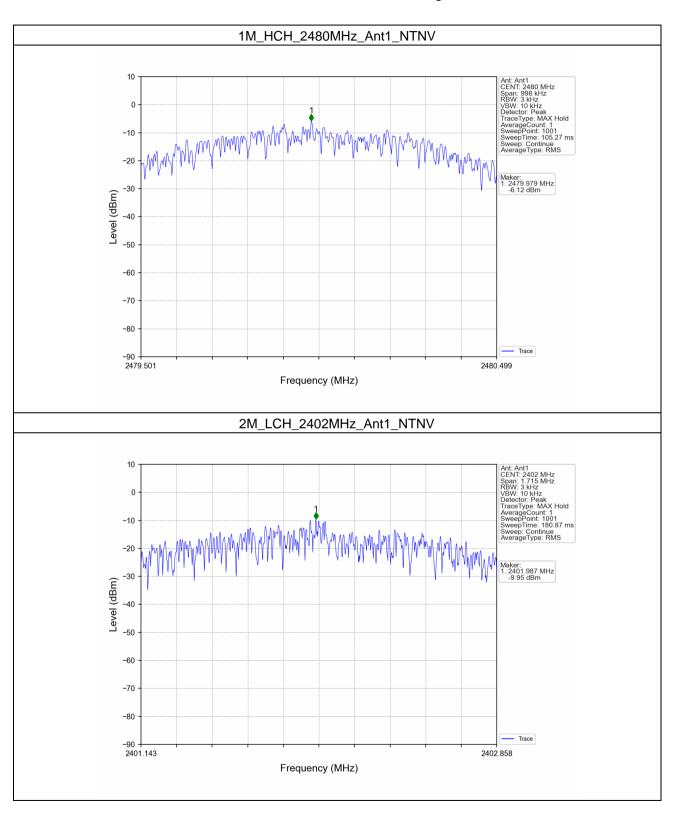
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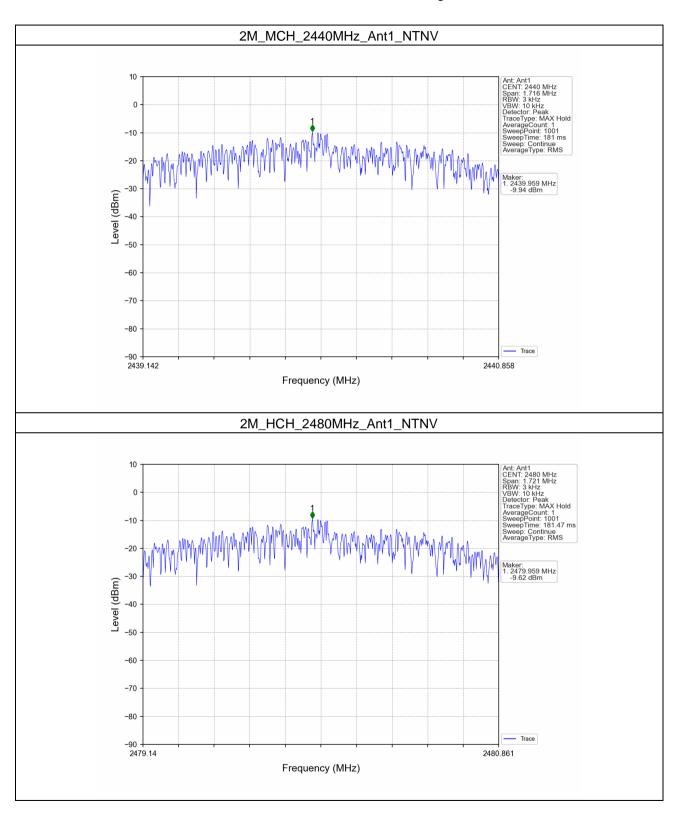
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### 5. Unwanted Emissions In Non-restricted Frequency Bands

### 5.1 Test Result

#### 5.1.1 Ref

Mode	ТХ Туре	Frequency (MHz)	ANT	Level of Reference (dBm)	
1M	SISO	2402	1	8.00	
		2440	1	7.98	
		2480	1	8.26	
2M	SISO	2402	1	7.98	
		2440	1	7.95	
		2480	1	8.27	
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	ТХ Туре	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	8.26	-11.74	Pass
		2440	1	8.26	-11.74	Pass
		2480	1	8.26	-11.74	Pass
2M	SISO	2402	1	8.27	-11.73	Pass
		2440	1	8.27	-11.73	Pass
		2480	1	8.27	-11.73	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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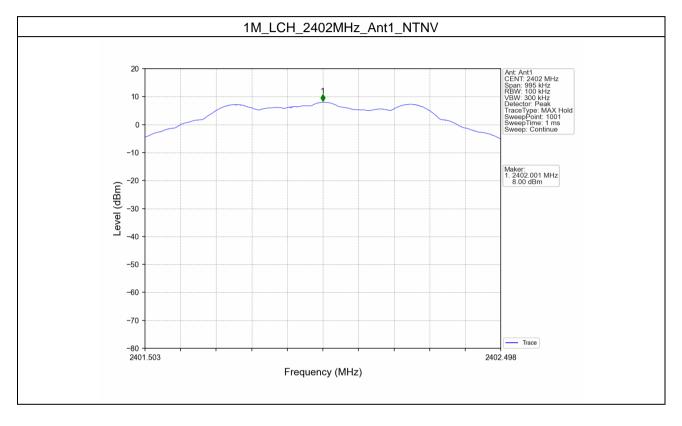


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### 5.2 Test Graph

#### 5.2.1 Ref





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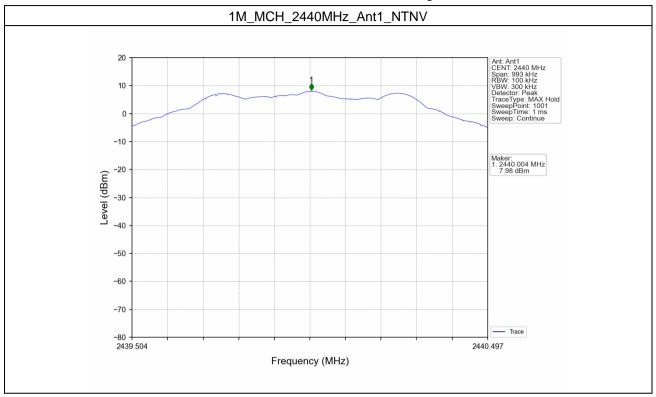
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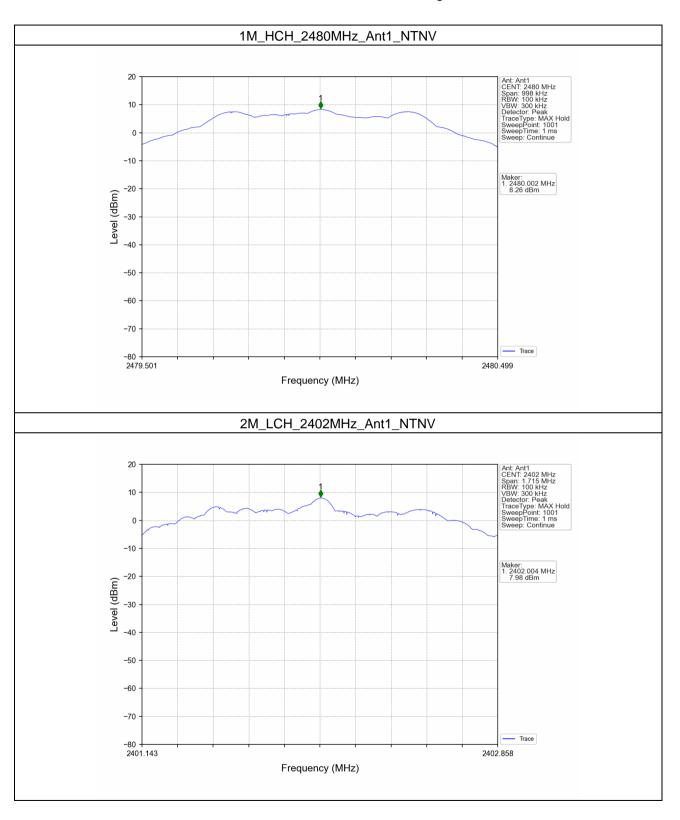
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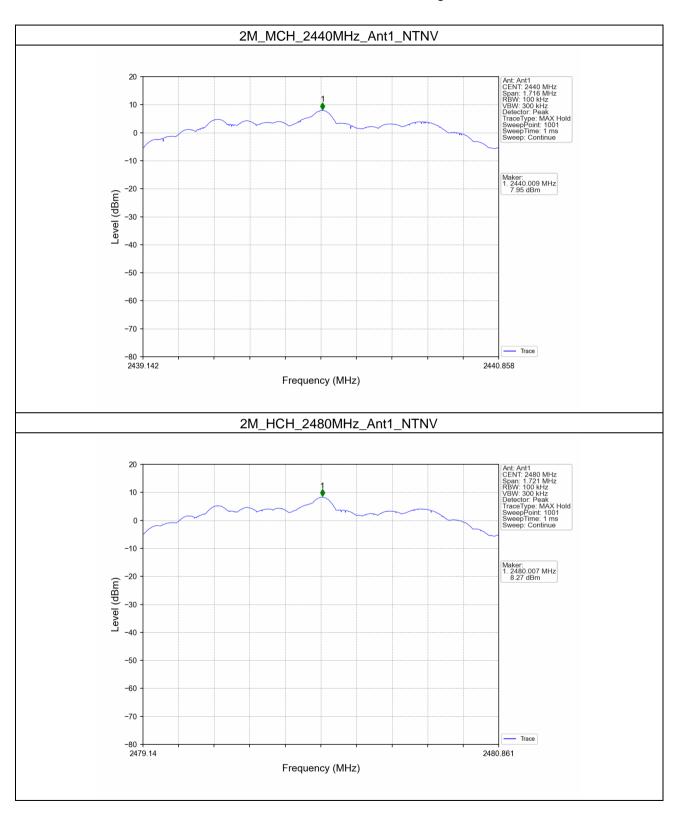
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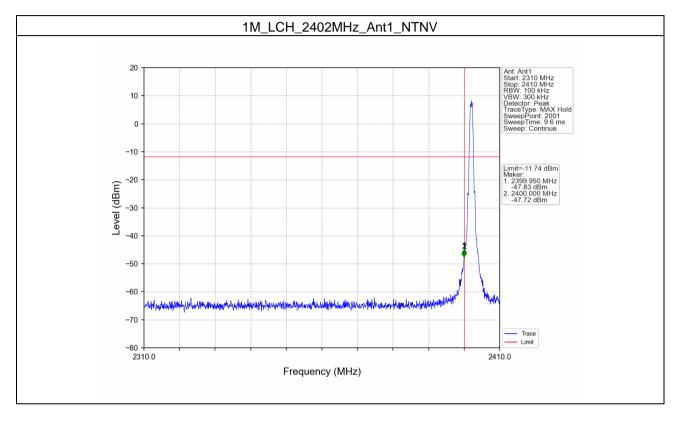
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#### 5.2.2 CSF





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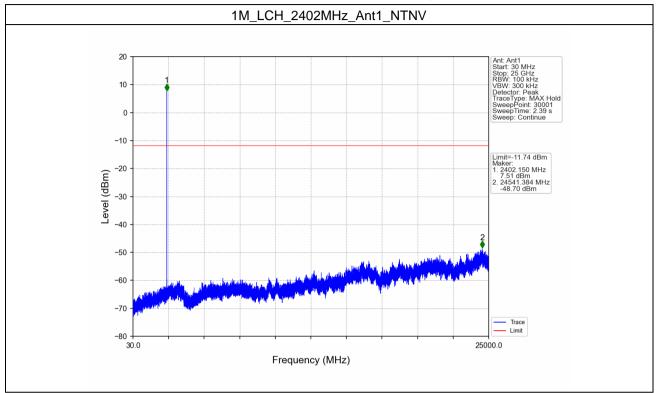
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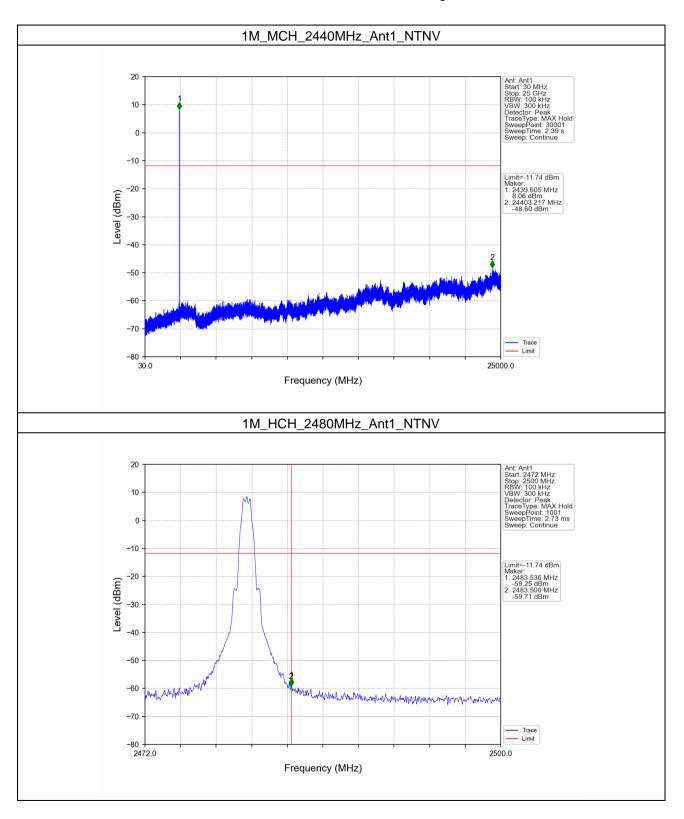
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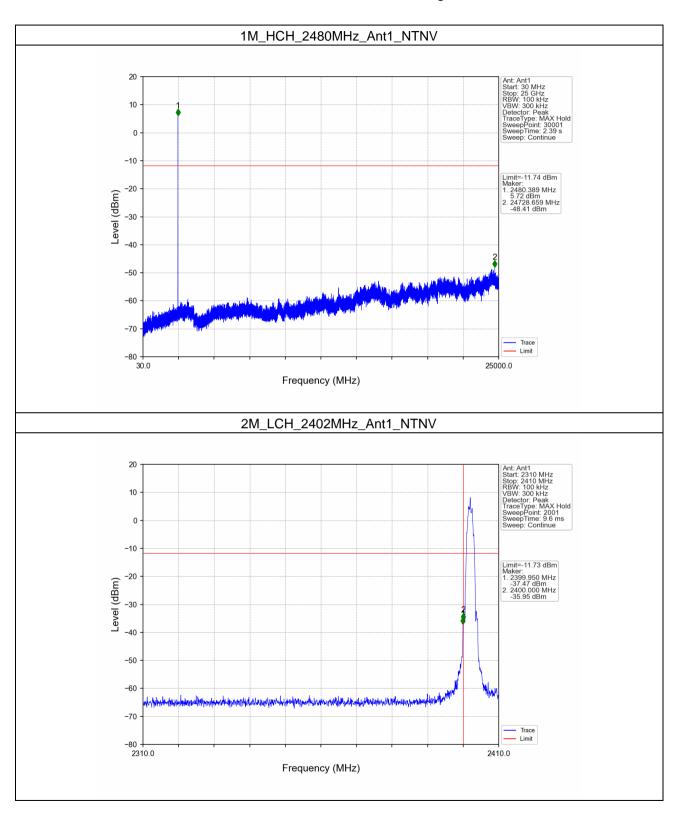
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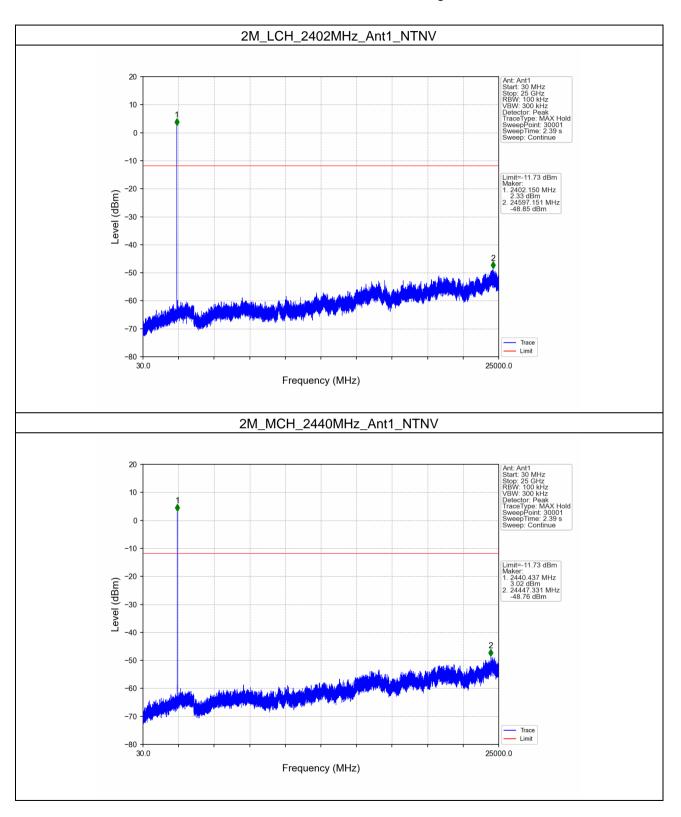
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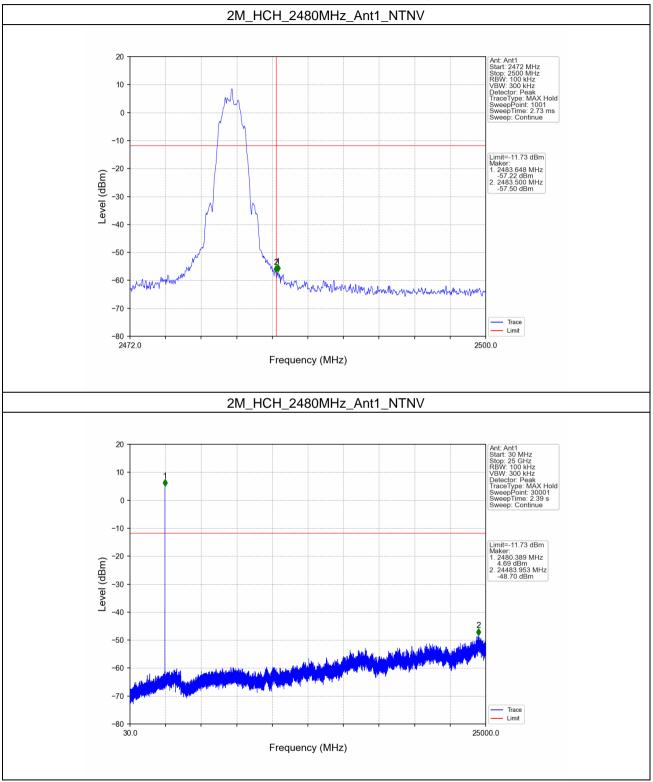
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