

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR250400135904

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TEST REPORT

Application No.: SZCR2504001359MO

Applicant: Shenzhen Favalon Technology Co., Ltd

Address of Applicant: 8th Floor, Building 2, Huaqiaocheng Chuangxiang Building, Beizhan

Community, Minzhi Street, Longhua District, Shenzhen, China

Manufacturer: Shenzhen Favalon Technology Co., Ltd

Address of Manufacturer: 8th Floor, Building 2, Huaqiaocheng Chuangxiang Building, Beizhan

Community, Minzhi Street, Longhua District, Shenzhen, China

Equipment Under Test (EUT):

EUT Name: 5G Module
Model No.: AN762S-GL
Trade Mark: Favalon

FCC ID: 2A8RBAN762SGL

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

Date of Receipt: 2025-04-08

Date of Test: 2025-04-15 to 2025-05-23

Date of Issue: 2025-05-27

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		2025-05-27		Original				

Authorized for issue by:			
	Dorjar. I fin ang		
	Donjon Huang/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,	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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General Information

41 Details of E.U.T.

4.1 Details of E.U.T.					
EUT Description:	5G Module				
Model No.:	AN762S-GL				
Trade Mark:	Favalon				
Hardware Version:	V1.0				
Software Version:	84100.2000.00.01.05.01				
Power Supply:	DC4V				
	2400MHz~2483.5MHz				
Operation Frequency:	fc = 2402 MHz + N * 2 MHz, where:				
operation requestoy.	-fc = "Operating Frequency" in MHz,				
	-N = "Channel Number" with the range from 0 to 39.				
Bluetooth version:	Bluetooth V5.3				
Modulation Type:	GFSK				
Number of Channel:	40				
Datas Tunaki	⊠Provided by client				
Rates Type*:	1M PHY 2M PHY				
Antenna Type:	⊠ External, ☐ Integrated				
	0.85dBi				
Antenna Gain:	Note:				
7 moning Gami	The antenna gain are derived from the gain information report provided by the manufacturer.				
RF Cable:	2000MHz ~ 3000MHz (1.1dB)				
Remark:					
As above information is provid suitability, reliability or/and into	led and confirmed by the applicant. SGS is not liable to the accuracy, egrity of the information.				

4.2 Environment Parameter

Environment Paramete	1020 mbar Selected Values During Tests			
Relative Humidity		44.5-50.8 % RH Ambient		
Value		Temperatu	ure(°C)	Voltage(V)
NTNV		22.5~24.5		4
Note:				
NV:Normal Voltage	LV:Low Extreme Test Vo	ltage	HV:High Extren	ne Test Voltage
NT:Normal Temperature LT:Low Extreme Test Ter		mperature HT:High Extreme Test Temperature		



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4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.			
Motherboard	FAVALON	ADP-AN762S/AN782S- CN-HG-70-V1.2	1			
Remark: all above the information of table are provided by client.						

4.4 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 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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4.5 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.

4.6 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.

4.7 Deviation from Standards

None

4.8 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		
Chielding Doom	ZhangVu Elastran	OD 00	SEM001-06	2022-05-14	2025-05-13		
Shielding Room	ZhongYu Electron	GB-88		2025-05-07	2028-05-06		
EMI Test Receiver	Rohde&Schwarz	ESR	SZ-WRG-M- 047	2025-01-08	2026-01-07		
Measurement Software	AUDIX	e3 V8.2014-6- 27a	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM024-01	2024-07-06	2025-07-05		
LISN	Rohde&Schwarz	ENV216	SEM007-01	2024-08-15	2025-08-14		
LISN	ETS-LINDGREN	3816/2	SEM007-02	2025-03-03	2026-03-02		

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	2025-01-07	2026-01-06		
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M- 050	2025-01-07	2026-01-06		
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M- 055	2023-12-21	2025-12-20		
RSE Test Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C- 063	2025-01-06	2028-01-05		
Humidity and Temperature Indicator	deli	8838	SEM002-46	2024-07-24	2025-07-23		

Radiated Spurious Emissions Below 1GHz											
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date						
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	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	2025-03-04	2026-03-03						
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A						
Coaxial Cable	SGS	N/A	SEM025-01	2024-07-06	2025-07-05						

Radiated Spurious Emissions Above 1GHz



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Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Signal & Spectrum Analyzer			SZ-WRG-M- 048	2025-01-07	2026-01-06	
Low Noise Amplifier 1G- 18GHz	Tonscend	TAP01018050	SZ-WRG-M- 051	2025-01-07	2026-01-06	
Low Noise Amplifier 18G-40GHz	' I IONSCAND		SZ-WRG-M- 052	2025-01-08	2026-01-07	
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	WARZBECK BBHA 9120 D S.		2023-12-21	2025-12-20	
SHF-EHF Horn 15GHz- 40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M- 056	2023-12-25	2025-12-24	
RSE Test Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C- 063	2025-01-06	2028-01-05	
Humidity and Temperature Indicator	deli	8838	SEM002-46	2024-07-24	2025-07-23	

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2025-03-04	2026-03-03
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2025-03-04	2026-03-03
DC Power Supply	Chroma	62012P-80-60	62012P-80-60 SEM011-11 20		2025-08-13
MXA Signal Analyzer	KEYSIGHT	N9020A	9020A SEM004-19 2025		2026-03-03
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2025-03-03	2026-03-02

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2025-03-03	2026-03-02



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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 a External Antenna, and the connection port is integrated inside the product, and the antenna cannot be replaced.

The best-case gain of the antenna is 0.85dBi.*

*Note:

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

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

7.1 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:

Francisco of amission (MIII-)	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:

Temperature: 22.5 °C Humidity: 44.5 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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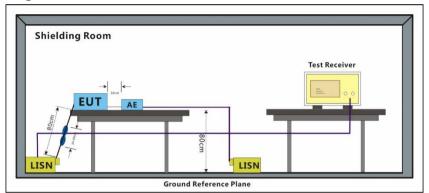
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7.1.3 Test Setup Diagram



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

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



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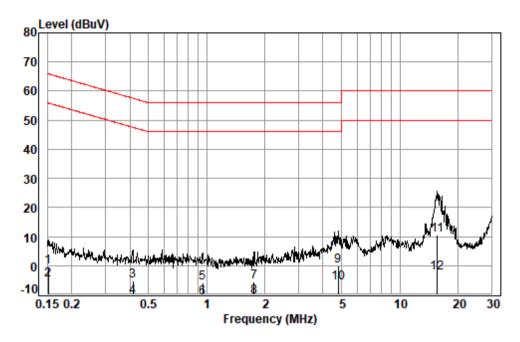


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Test Mode: 02: Line: Live line



: Shielding Room

Condition: Line

Job No. : 01359MO/01361MO

Test mode: 02

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1516	0.06	10.19	-10.51	-0.26	65.91	-66.17	QP
2	0.1516	0.06	10.19	-15.06	-4.81	55.91	-60.72	Average
3	0.4148	0.07	9.65	-14.88	-5.16	57.55	-62.71	QP
4	0.4148	0.07	9.65	-20.24	-10.52	47.55	-58.07	Average
5	0.9531	0.09	9.59	-15.47	-5.79	56.00	-61.79	QP
6	0.9531	0.09	9.59	-20.60	-10.92	46.00	-56.92	Average
7	1.7623	0.10	9.58	-15.18	-5.50	56.00	-61.50	QP
8	1.7623	0.10	9.58	-20.43	-10.75	46.00	-56.75	Average
9	4.7969	0.12	9.66	-9.75	0.03	56.00	-55.97	QP
10 *	4.7969	0.12	9.66	-15.57	-5.79	46.00	-51.79	Average
11 *	15.6349	0.27	9.96	0.30	10.53	60.00	-49.47	QP
12	15.6349	0.27	9.96	-12.57	-2.34	50.00	-52.34	Average



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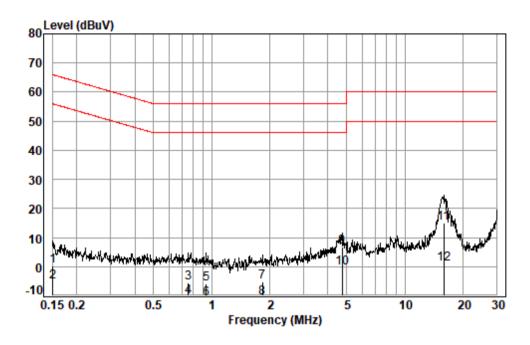


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Test Mode: 02: Line: Neutral Line



: Shielding Room

Condition: Neutral

Job No. : 01359MO/01361MO

Test mode: 02

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0 1500	0.00	10 15	0.97	0.24	CE 0C	CE C2	OD
1	0.1508	0.06		-9.87			-65.62	•
2	0.1508	0.06	10.15	-15.31	-5.10	55.96	-61.06	Average
3	0.7589	0.09	9.63	-15.15	-5.43	56.00	-61.43	QP
4	0.7589	0.09	9.63	-20.04	-10.32	46.00	-56.32	Average
5	0.9381	0.09	9.56	-15.51	-5.86	56.00	-61.86	QP
6	0.9381	0.09	9.56	-20.57	-10.92	46.00	-56.92	Average
7	1.8386	0.10	9.55	-14.96	-5.31	56.00	-61.31	QP
8	1.8386	0.10	9.55	-20.50	-10.85	46.00	-56.85	Average
9	4.7464	0.12	9.56	-2.89	6.79	56.00	-49.21	QP
10 *	4.7464	0.12	9.56	-10.11	-0.43	46.00	-46.43	Average
11 *	15.9698	0.27	9.92	4.70	14.89	60.00	-45.11	QP
12	15.9698	0.27	9.92	-9.28	0.91	50.00	-49.09	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: 24.5 °C Humidity: 50.8 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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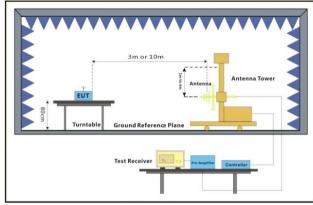


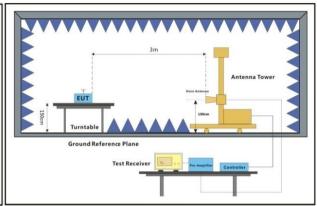
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7.2.3 Test Setup Diagram





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.
- i. Repeat above procedures until all frequencies measured was complete.
- Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- Remark 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

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



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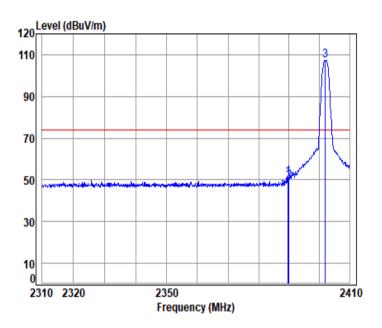


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BLE_1M_TX_CH_00_Horizontal-Peak



Condition: 3m HORIZONTAL : 01359MO/01361MO Mode : 2402 Band edge

: BLE 1M

	Freq						Limit Line		Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2389.659						74.00		•
nn	2390.000						74.00 74.00		•



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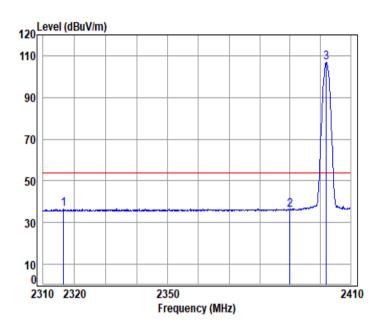


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BLE_1M_TX_CH_00_Horizontal-AVG



Condition: 3m HORIZONTAL Job No : 01359MO/01361MO Mode : 2402 Band edge

: BLE 1M

		Freq						Limit Line		Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		2316.568	6.79	27.23	31.53	34.02	36.51	54.00	-17.49	Average
2		2390.000	6.82	27.46	31.54	33.28	36.02	54.00	-17.98	Average
3	pp	2402.000	6.84	27.50	31.54	103.78	106.58	54.00	52.58	Average



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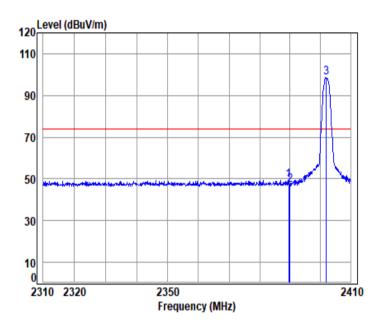


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Report No.: SZCR250400135904

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BLE_1M_TX_CH_00_Vertical-Peak



Condition: 3m VERTICAL : 01359MO/01361MO Mode : 2402 Band edge

: BLE 1M

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2389.558 2390.000								•
pp 2402.000	6.84	27.50	31.54	95.60	98.40	74.00	24.40	peak



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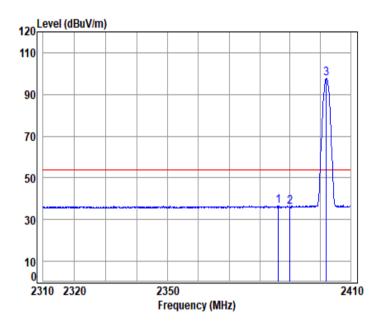


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BLE_1M_TX_CH_00_Vertical-AVG



Condition: 3m VERTICAL : 01359MO/01361MO Mode : 2402 Band edge

: BLE 1M

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
2386.118								_	
2390.000	6.82	27.46	31.54	33.42	36.16	54.00	-17.84	Average	
pp 2402.000	6.84	27.50	31.54	94.93	97.73	54.00	43.73	Average	



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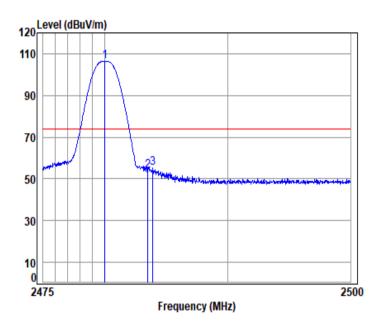


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BLE_1M_TX_CH_39_Horizontal-Peak



Condition: 3m HORIZONTAL Job No : 01359MO/01361MO Mode : 2480 Band edge

: BLE 1M

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 pp	2480.000	7.37	27.78	31.55	102.65	106.25	74.00	32.25	peak	
2	2483.500	7.40	27.80	31.55	50.38	54.03	74.00	-19.97	peak	
3	2483.896	7.40	27.80	31.55	51.40	55.05	74.00	-18.95	neak	



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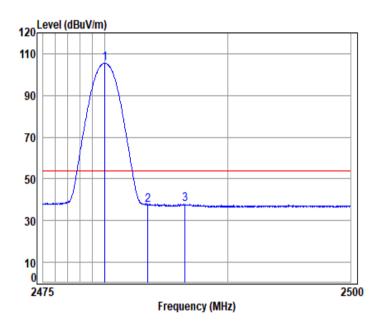


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BLE_1M_TX_CH_39_Horizontal-AVG



Condition: 3m HORIZONTAL Job No : 01359MO/01361MO Mode : 2480 Band edge

: BLE 1M

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-	MU-					4D. M/m	4D. 1//m		
		MUZ	ab	ab/m	ab	abuv	dBuV/m	abuv/m	dB	
1	pp	2480.000	7.37	27.78	31.55	101.89	105.49	54.00	51.49	Average
2		2483.500	7.40	27.80	31.55	33.80	37.45	54.00	-16.55	Average
		2486.519								_
_		2400.313	7.42	27.02	21.23	J4.11	37.00	34.00	-10.20	Average



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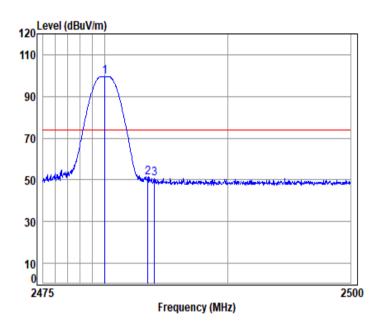


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BLE_1M_TX_CH_39_Vertical-Peak



Condition: 3m VERTICAL Job No : 01359MO/01361MO Mode : 2480 Band edge

: BLE 1M

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2480.000								
	2483.500								•
3	2484.021	7.40	27.80	31.55	47.14	50.79	74.00	-23.21	peak



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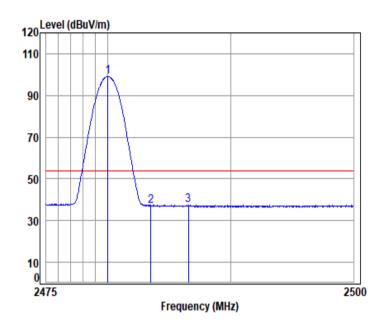


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BLE_1M_TX_CH_39_Vertical-AVG



Condition: 3m VERTICAL Job No : 01359MO/01361MO Mode : 2480 Band edge

: BLE 1M

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp	2480.000	7.37	27.78	31.55	95.45	99.05	54.00	45.05	Average
2		2483.500	7.40	27.80	31.55	33.33	36.98	54.00	-17.02	Average
3		2486.544	7.42	27.82	31.55	33.83	37.52	54.00	-16.48	Average



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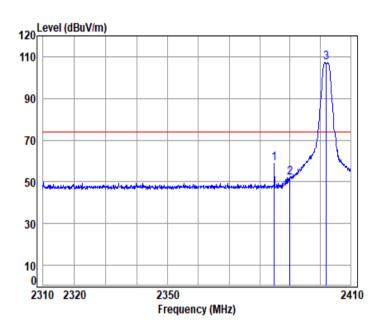


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BLE_2M_TX_CH_00_Horizontal-Peak



Condition: 3m HORIZONTAL Job No : 01359MO/01361MO Mode : 2402 Band edge

• BLF 2M

		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	
	2384.803	6.82	27.44	31.54	56.21	58.93	74.00	-15.07	peak
	2390.000	6.82	27.46	31.54	49.22	51.96	74.00	-22.04	peak
nn	2402 000	6 84	27 50	31 54	104 43	107 23	74 99	33 23	neak



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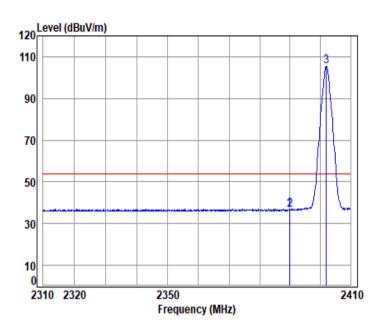


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BLE_2M_TX_CH_00_Horizontal-AVG



Condition: 3m HORIZONTAL Job No : 01359MO/01361MO Mode : 2402 Band edge

: BLE 2M

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.761	6.82	27.46	31.54	34.28	37.02	54.00	-16.98	Average
2	2390.000	6.82	27.46	31.54	33.76	36.50	54.00	-17.50	Average
3 p	p 2402.000	6.84	27.50	31.54	102.60	105.40	54.00	51.40	Average



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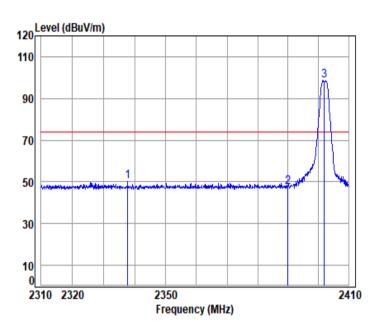


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Report No.: SZCR250400135904

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BLE_2M_TX_CH_00_Vertical-Peak



Condition: 3m VERTICAL : 01359MO/01361MO Mode : 2402 Band edge

: BLE 2M

	Freq			Preamp Factor						
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB		
	2337.673								•	
ממ	2390.000			31.54 31.54					•	



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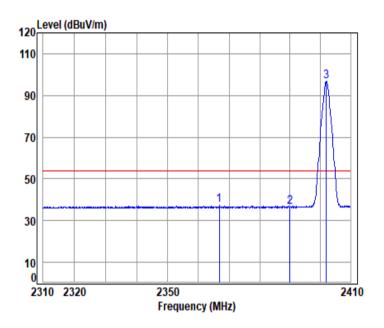


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Report No.: SZCR250400135904

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BLE_2M_TX_CH_00_Vertical-AVG



Condition: 3m VERTICAL : 01359MO/01361MO Mode : 2402 Band edge

: BLE 2M

		Freq			Preamp Factor					
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		2366.781	6.81	27.37	31.54	34.57	37.21	54.00	-16.79	Average
2		2390.000	6.82	27.46	31.54	33.56	36.30	54.00	-17.70	Average
3	pp	2402.000	6.84	27.50	31.54	93.89	96.69	54.00	42.69	Average



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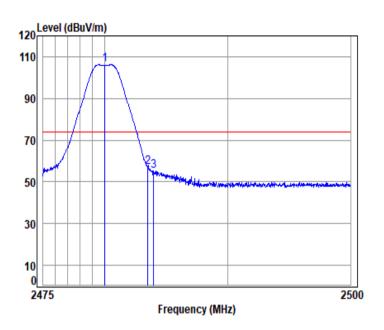


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BLE_2M_TX_CH_39_Horizontal-Peak



Condition: 3m HORIZONTAL Job No : 01359MO/01361MO Mode : 2480 Band edge

: BLE 2M

	Freq		Ant Factor						Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB		-
. pp	2480.000	7.37	27.78	31.55	102.57	106.17	74.00	32.17	peak	
	2483.500	7.40	27.80	31.55	53.23	56.88	74.00	-17.12	peak	
	2483.971	7.40	27.80	31.55	51.63	55.28	74.00	-18.72	peak	



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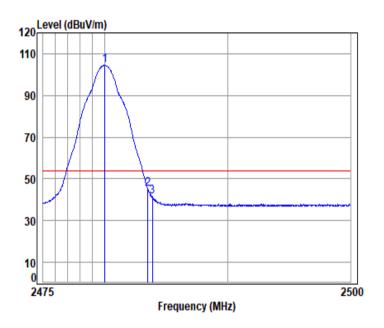


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BLE_2M_TX_CH_39_Horizontal-AVG



Condition: 3m HORIZONTAL Job No : 01359MO/01361MO Mode : 2480 Band edge

: BLE 2M

	Freq				Read Level				Remark	
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
рр	2480.000	7.37	27.78	31.55	100.81	104.41	54.00	50.41	Average	
	2483.500	7.40	27.80	31.55	41.55	45.20	54.00	-8.80	Average	
	2483.846	7.40	27.80	31.55	37.70	41.35	54.00	-12.65	Average	



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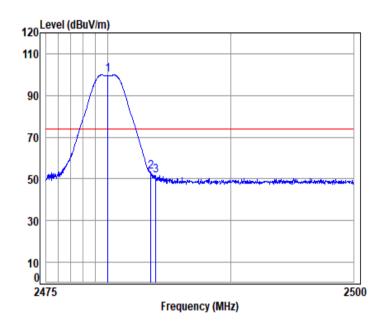


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Report No.: SZCR250400135904

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BLE_2M_TX_CH_39_Vertical-Peak



Condition: 3m VERTICAL Job No : 01359MO/01361MO Mode : 2480 Band edge

: BLE 2M

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2480.000 2483.500								
	2483.896								•



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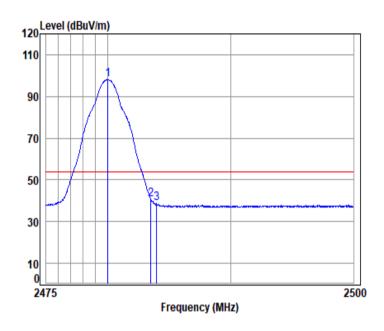


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BLE_2M_TX_CH_39_Vertical-AVG



Condition: 3m VERTICAL Job No : 01359MO/01361MO Mode : 2480 Band edge

: BLE 2M

		Freq			Preamp Factor						
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
1	рр	2480.000	7.37	27.78	31.55	94.45	98.05	54.00	44.05	Average	
2		2483.500	7.40	27.80	31.55	36.96	40.61	54.00	-13.39	Average	
3		2483.946	7.40	27.80	31.55	34.95	38.60	54.00	-15.40	Average	



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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: 45.1 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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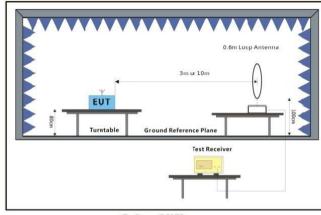
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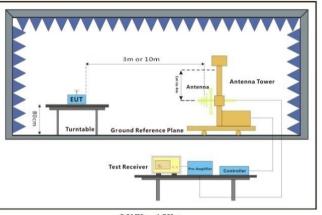


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7.3.3 Test Setup Diagram





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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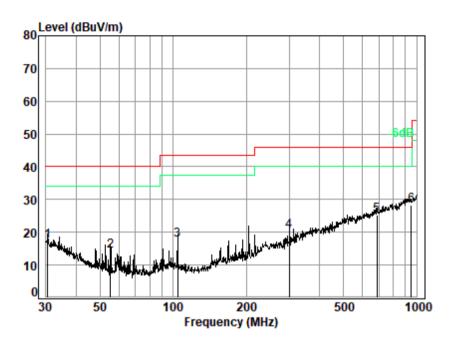


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Test Mode: 02; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL Job No. : 01359MO/01361MO

Test Mode: 02

	Ant Freq Factor		Ant Cable Preamp				Limit	0ver		
			Loss	Factor	Level	Level	Line	Limit	Remark	
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		
1	30.531	20.95	0.68	27.79	23.50	17.34	40.00	-22.66	QP	
2	55.221	11.94	0.91	27.72	29.08	14.21	40.00	-25.79	QP	
3	104.170	12.22	1.25	27.57	31.65	17.55	43.50	-25.95	QP	
4	300.367	18.05	2.20	26.75	26.80	20.30	46.00	-25.70	QP	
5	687.151	25.71	3.50	27.76	23.86	25.31	46.00	-20.69	QP	
6 a	952.094	28.17	4.26	26.39	22.19	28.23	46.00	-17.77	OP	



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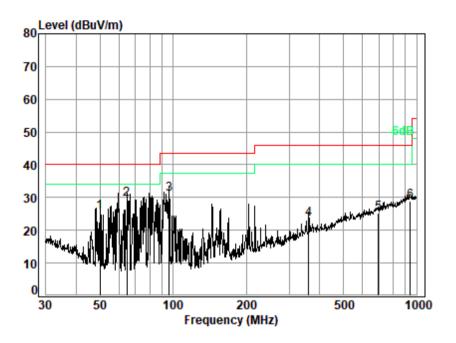


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Test Mode: 02; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No. : 01359MO/01361MO

Test Mode: 02

	Ant		Ant Cable Preamp		Read					
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark	
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		
1	50.057	12.75	0.86	27.73	39.58	25.46	40.00	-14.54	QP	
2 q	64.659	11.06	0.98	27.69	45.12	29.47	40.00	-10.53	QP	
3	96.436	12.18	1.20	27.60	45.28	31.06	43.50	-12.44	QP	
4	360.448	20.23	2.44	27.00	27.85	23.52	46.00	-22.48	QP	
5	696.857	25.88	3.53	27.73	23.42	25.10	46.00	-20.90	QP	
6	942.131	28.19	4.23	26.46	23.04	29.00	46.00	-17.00	OP	



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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

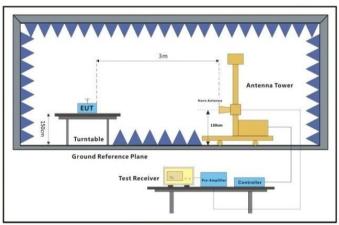
Operating Environment:

Temperature: Atmospheric Pressure: 1020 mbar 24.5 °C Humidity: 50.8 % RH

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.4.3 Test Setup Diagram



Above 1GHz



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7.4.4 Measurement Procedure and Data

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

Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 4: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
- 5:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥1/T (Duty cycle<98%) or 10Hz (Duty cycle≥98%) for Average detection (AV) at frequency above 1GHz.



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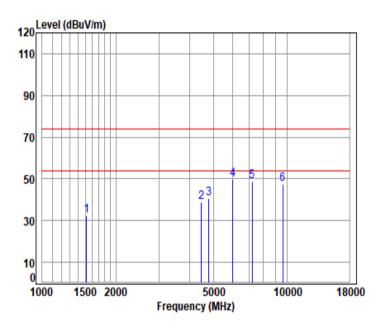


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BLE_1M_TX_CH_00_Horizontal



Condition: 3m HORIZONTAL Job No : 01359MO/01361MO Mode : 2402 TX RSE

: BLE 1M

Ant Preamp Read Limit 0ver Freq Loss Factor Factor Limit Remark Level Level Line MHz dB dBuV dBuV/m dBuV/m dB/m dB 1520.598 7.20 24.94 54.70 54.86 32.30 74.00 -41.70 peak 8.55 31.48 55.93 54.74 38.84 74.00 -35.16 peak 4469.214 4804.000 8.90 31.92 56.16 55.81 40.47 74.00 -33.53 peak 10.05 33.80 56.90 63.01 49.96 74.00 -24.04 peak 4 pp 6001.626 7206.000 11.10 36.60 56.54 57.89 49.05 74.00 -24.95 peak 9608.000 12.38 38.78 54.45 50.57 47.28 74.00 -26.72 peak



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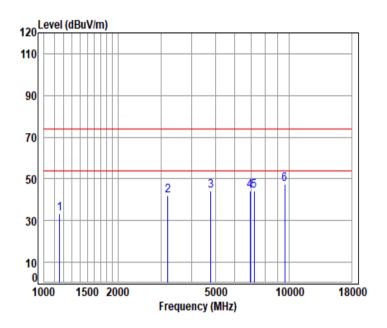


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BLE_1M_TX_CH_00_Vertical



Condition: 3m VERTICAL Job No : 01359MO/01361MO Mode : 2402 TX RSE

. RIF 1M

		: DLE	TM							
			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		1158.828	7.15	25.38	54.70	55.47	33.30	74.00	-40.70	peak
2		3196.094	7.70	29.20	55.12	60.02	41.80	74.00	-32.20	peak
3		4804.000	8.90	31.92	56.16	59.43	44.09	74.00	-29.91	peak
4		6934.778	10.95	36.13	56.71	53.74	44.11	74.00	-29.89	peak
5		7206.000	11.10	36.60	56.54	53.03	44.19	74.00	-29.81	peak
6	pp	9608.000	12.38	38.78	54.45	50.57	47.28	74.00	-26.72	peak



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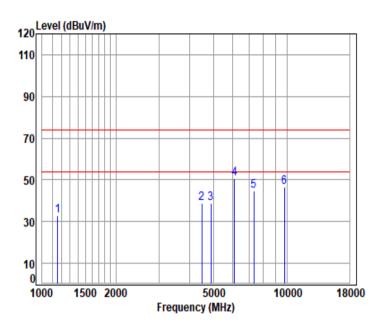


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BLE_1M_TX_CH_19_Horizontal



Condition: 3m HORIZONTAL Job No : 01359MO/01361MO Mode : 2440 TX RSE

BLF 1M

	. DLL	TIT								
		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		
	1155.483	7.15	25.39	54.70	55.23	33.07	74.00	-40.93	peak	
	4495.125	8.56	31.58	55.95	54.61	38.80	74.00	-35.20	peak	
	4880.000	8.98	32.16	56.22	53.76	38.68	74.00	-35.32	peak	
pp	6106.616	10.36	33.77	56.88	63.61	50.86	74.00	-23.14	peak	
	7320.000	11.12	36.74	56.44	53.25	44.67	74.00	-29.33	peak	
	9760,000									



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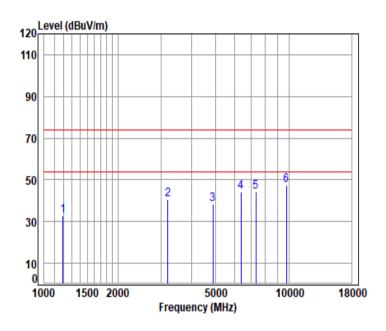


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BLE_1M_TX_CH_19_Vertical



Condition: 3m VERTICAL Job No : 01359MO/01361MO Mode : 2440 TX RSE

. RIF 1M

		. DLL	TIL							
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-	MHz			dB		dDuV/m	dDuV/m	dB	
		МПΖ	ub	ub/m	ub	ubuv	ubuv/m	ubuv/III	ub	
1		1192.811	7.18	25.31	54.70	54.93	32.72	74.00	-41.28	peak
2		3196.094	7.70	29.20	55.12	58.77	40.55	74.00	-33.45	peak
3		4880.000	8.98	32.16	56.22	53.53	38.45	74.00	-35.55	peak
4		6377.195	10.52	34.75	56.82	55.75	44.20	74.00	-29.80	peak
5		7320.000	11.12	36.74	56.44	52.66	44.08	74.00	-29.92	peak
6	pp	9760.000	12.84	38.60	54.32	50.16	47.28	74.00	-26.72	peak



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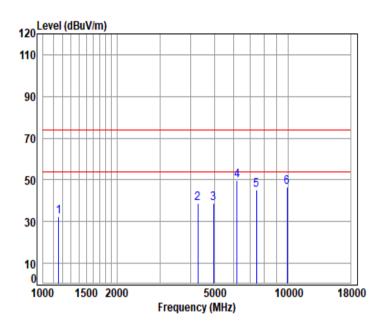


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BLE_1M_TX_CH_39_Horizontal



Condition: 3m HORIZONTAL Job No : 01359MO/01361MO Mode : 2480 TX RSE

. RIF 1M

		. DLL	TIT								
			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		1155.483	7.15	25.39	54.70	54.50	32.34	74.00	-41.66	peak	
2		4279.589	8.46	31.22	55.80	54.81	38.69	74.00	-35.31	peak	
3		4960.000	9.07	32.20	56.27	53.62	38.62	74.00	-35.38	peak	
4	pp	6195.508	10.46	34.11	56.86	62.11	49.82	74.00	-24.18	peak	
5		7440.000	11.08	36.78	56.35	53.51	45.02	74.00	-28.98	peak	
6		9920.000	12.73	38.90	54.17	49.05	46.51	74.00	-27.49	peak	



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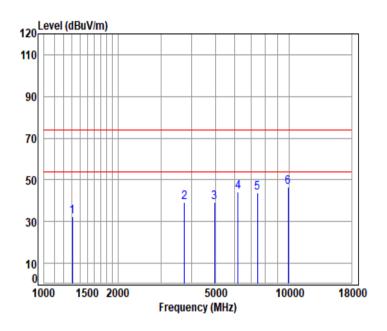


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BLE_1M_TX_CH_39_Vertical



Condition: 3m VERTICAL Job No : 01359MO/01361MO Mode : 2480 TX RSE

: BLE 1M

Ant Preamp Read Limit 0ver Cable Loss Factor Factor Level Level Line Limit Remark Freq dBuV dBuV/m dBuV/m MHz dB dB/m dB 1304.623 7.15 25.19 54.70 54.96 32.60 74.00 -41.40 peak 3746.792 7.94 29.89 55.45 56.83 39.21 74.00 -34.79 peak 4960.000 9.07 32.20 56.27 54.38 39.38 74.00 -34.62 peak 6195.508 10.46 34.11 56.86 56.51 44.22 74.00 -29.78 peak 7440.000 11.08 36.78 56.35 52.18 43.69 74.00 -30.31 peak 6 pp 9920.000 12.73 38.90 54.17 49.13 46.59 74.00 -27.41 peak



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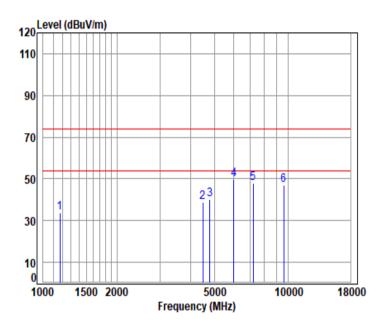


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BLE_2M_TX_CH_00_Horizontal



Condition: 3m HORIZONTAL Job No : 01359MO/01361MO Mode : 2402 TX RSE

· 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	1168.920	7.16	25.36	54.70	55.84	33.66	74.00	-40.34	peak
2	4495.125	8.56	31.58	55.95	54.58	38.77	74.00	-35.23	peak
3	4804.000	8.90	31.92	56.16	55.39	40.05	74.00	-33.95	peak
4 p	p 6001.626	10.05	33.80	56.90	62.73	49.68	74.00	-24.32	peak
5	7206.000	11.10	36.60	56.54	56.72	47.88	74.00	-26.12	peak
6	9608.000	12.38	38.78	54.45	50.32	47.03	74.00	-26.97	peak



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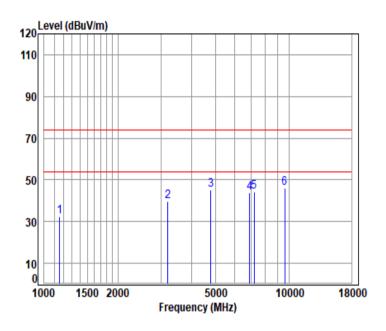


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BLE_2M_TX_CH_00_Vertical



Condition: 3m VERTICAL Job No : 01359MO/01361MO Mode : 2402 TX RSE

· RIF 2M

		. DLL	ZPI							
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-	MHz			dB		dBu\//m	dBuV/m	dB	
		PHIZ	ub	ub/iii	ub	ubuv	ubuv/III	ubuv/III	ub	
1		1158.828	7.15	25.38	54.70	54.70	32.53	74.00	-41.47	peak
2		3196.094	7.70	29.20	55.12	57.95	39.73	74.00	-34.27	peak
3		4804.000	8.90	31.92	56.16	60.38	45.04	74.00	-28.96	peak
4		6914.763	10.94	36.17	56.72	53.26	43.65	74.00	-30.35	peak
5		7206.000	11.10	36.60	56.54	53.24	44.40	74.00	-29.60	peak
6	pp	9608.000	12.38	38.78	54.45	49.56	46.27	74.00	-27.73	peak



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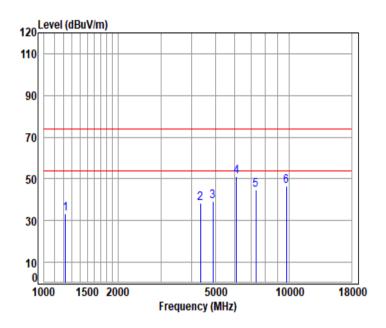


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BLE_2M_TX_CH_19_Horizontal



Condition: 3m HORIZONTAL Job No : 01359MO/01361MO Mode : 2440 TX RSE

· 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		1224.247	7.18	25.30	54.70	55.31	33.09	74.00	-40.91	peak	
2		4354.454	8.50	31.29	55.85	54.57	38.51	74.00	-35.49	peak	
3		4880.000	8.98	32.16	56.22	54.44	39.36	74.00	-34.64	peak	
4	pp	6106.616	10.36	33.77	56.88	64.07	51.32	74.00	-22.68	peak	
5		7320.000	11.12	36.74	56.44	53.18	44.60	74.00	-29.40	peak	
6		9760.000	12.84	38.60	54.32	49.28	46.40	74.00	-27.60	peak	



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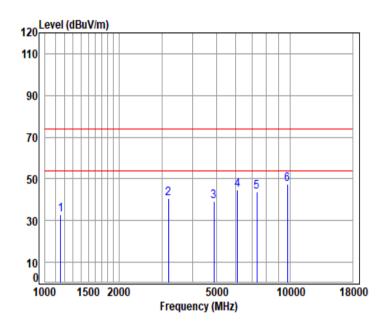


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BLE_2M_TX_CH_19_Vertical



Condition: 3m VERTICAL Job No : 01359MO/01361MO

Mode : 2440 TX RSE

. BLF 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		1155.483	7.15	25.39	54.70	55.08	32.92	74.00	-41.08	peak	
2		3186.869	7.70	29.20	55.11	58.77	40.56	74.00	-33.44	peak	
3		4880.000	8.98	32.16	56.22	54.21	39.13	74.00	-34.87	peak	
4		6106.616	10.36	33.77	56.88	57.30	44.55	74.00	-29.45	peak	
5		7320.000	11.12	36.74	56.44	52.55	43.97	74.00	-30.03	peak	
6	nn	9760.000	12.84	38,60	54.32	50.12	47.24	74.00	-26.76	neak	



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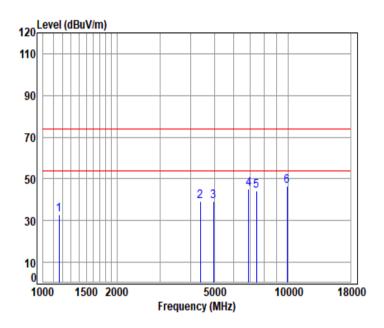


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BLE_2M_TX_CH_39_Horizontal



Condition: 3m HORIZONTAL Job No : 01359MO/01361MO Mode : 2480 TX RSE

· RIF 2M

		: DLE	ZIM							
			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		1162.182	7.16	25.38	54.70	55.00	32.84	74.00	-41.16	peak
2		4392.376	8.53	31.22	55.87	55.15	39.03	74.00	-34.97	peak
3		4960.000	9.07	32.20	56.27	54.03	39.03	74.00	-34.97	peak
4		6914.763	10.94	36.17	56.72	54.56	44.95	74.00	-29.05	peak
5		7440.000	11.08	36.78	56.35	52.71	44.22	74.00	-29.78	peak
6	pp	9920.000	12.73	38.90	54.17	49.13	46.59	74.00	-27.41	peak



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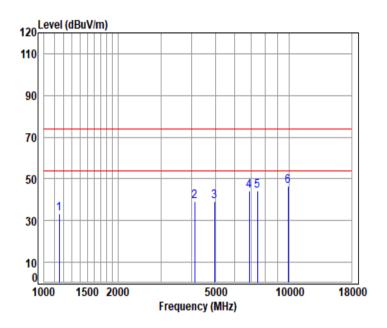


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BLE_2M_TX_CH_39_Vertical



Condition: 3m VERTICAL Job No : 01359MO/01361MO Mode : 2480 TX RSE

· RIF 2M

	. DLL	ZII								
		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	1152.148	7.15	25.40	54.70	55.26	33.11	74.00	-40.89	peak	
2	4121.768	8.39	30.44	55.69	56.20	39.34	74.00	-34.66	peak	
3	4960.000	9.07	32.20	56.27	54.06	39.06	74.00	-34.94	peak	
4	6874.906	10.95	36.10	56.73	53.86	44.18	74.00	-29.82	peak	
5	7440.000	11.08	36.78	56.35	52.64	44.15	74.00	-29.85	peak	
	9920.000									



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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

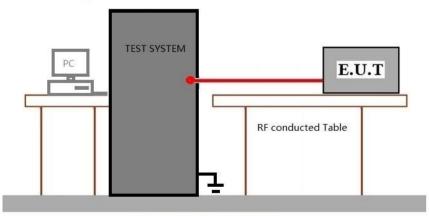
Operating Environment:

Temperature: Atmospheric Pressure: 1020 mbar 24.3 °C Humidity: 44.8 % RH

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description								
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.								
Final test	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.								

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

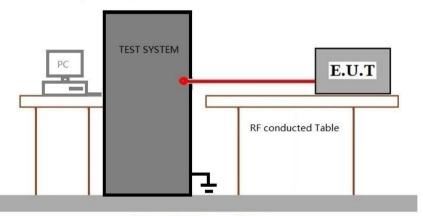
Operating Environment:

Temperature: Atmospheric Pressure: 1020 mbar 24.3 °C Humidity: 44.8 % RH

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.6.3 Test Setup Diagram



Ground Reference Plane

7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.7 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

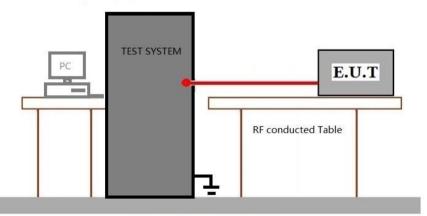
Operating Environment:

Temperature: 24.3 °C Humidity: 44.8 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.7.3 Test Setup Diagram



Ground Reference Plane

7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.8 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d) Test Method: ANSI C63.10 (2013) Section 11.13.3.2

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

7.8.1 E.U.T. Operation

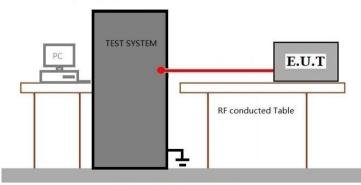
Operating Environment:

Temperature: 24.3 °C Humidity: 44.8 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

	1012 1001 11040 200011 11011									
Pre-scan / Final test	Mode Code	Description								
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.								
Final test	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.								

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) ANSI C63.10 (2013) Section 11.11 Test Method:

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

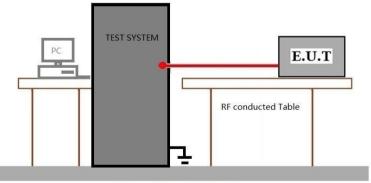
Operating Environment:

Temperature: 24.3 °C Humidity: 44.8 % RH Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description								
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.								
Final test	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.								

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

Please refer to SZCR2504001359 Appendix_Setup Photo

EUT Constructional Details (EUT Photos) 9

Refer to Appendix – External and Internal Photos for SZCR2504001359MO.



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10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

	Ant1										
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)				
		2402	0.398	0.625	63.68	1.96	0.02				
1M	SISO	2440	0.398	0.625	63.68	1.96	0.00				
		2480	0.398	0.625	63.68	1.96	0.00				
		2402	0.216	0.625	34.56	4.61	0.00				
2M	SISO	2440	0.216	0.625	34.56	4.61	0.00				
		2480	0.216	0.625	34.56	4.61	0.00				



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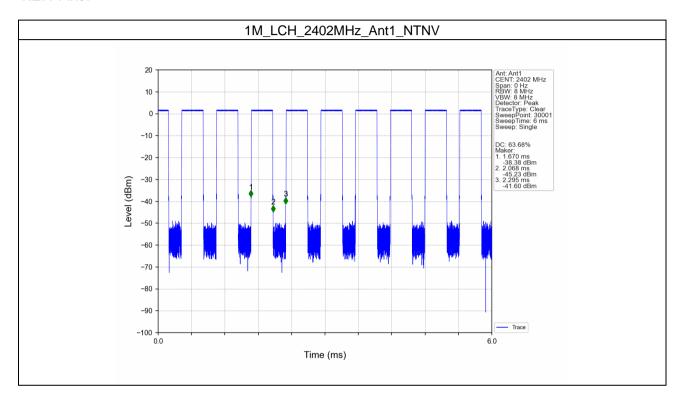
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1.2 Test Graph

1.2.1 Ant1





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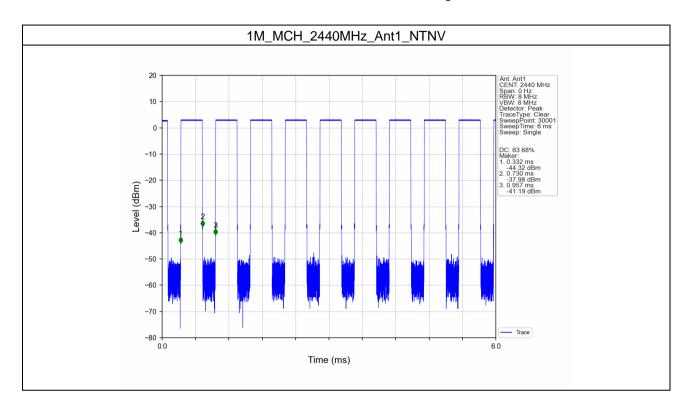
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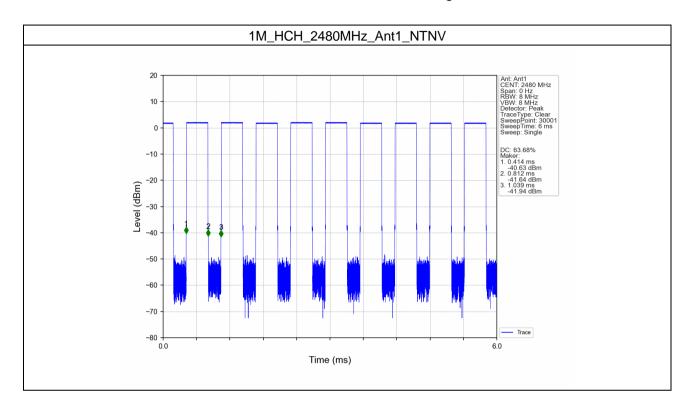
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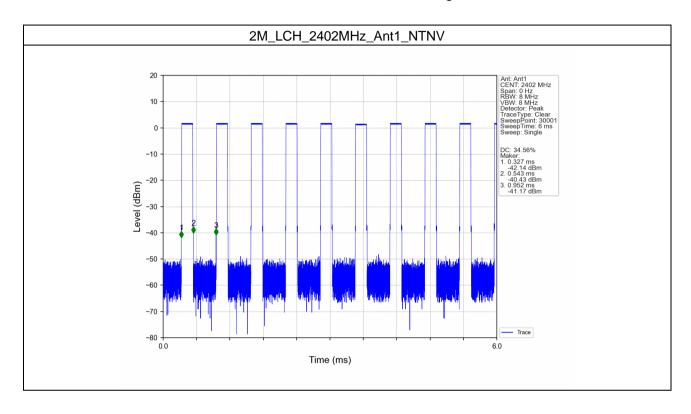
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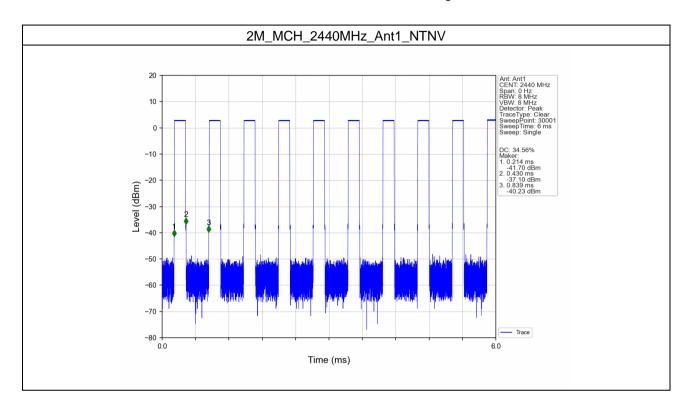
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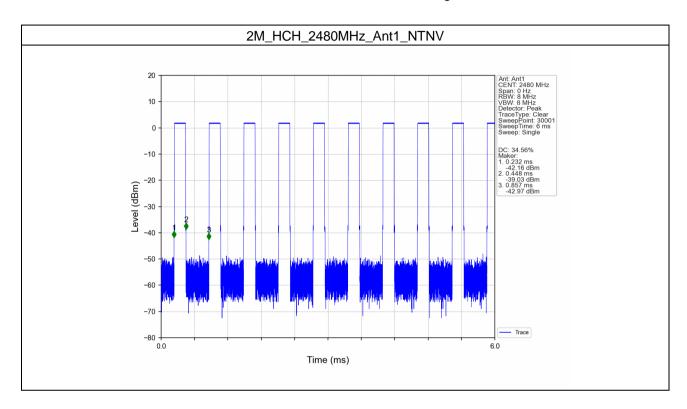
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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX	Frequency	ANT	99% Occupied E	Verdict	
Mode	Туре	(MHz)	AINI	Result	Limit	verdict
		2402	1	1.057	/	Pass
1M	SISO	2440	1	1.057	/	Pass
		2480	1	1.053	/	Pass
		2402	1	2.098	/	Pass
2M	SISO	2440	1	2.095	/	Pass
		2480	1	2.091	/	Pass

2.1.2 6dB BW

Mode	TX	Frequency	ANT	6dB Bandv	\/ordiot		
Mode	Туре	(MHz)	ANT	Result	Limit	Verdict	
		2402	1	0.717	>=0.5	Pass	
1M	SISO	2440	1	0.718	>=0.5	Pass	
		2480	1	0.718	>=0.5	Pass	
			2402	1	1.249	>=0.5	Pass
2M	SISO	2440	1	1.187	>=0.5	Pass	
		2480	1	1.243	>=0.5	Pass	



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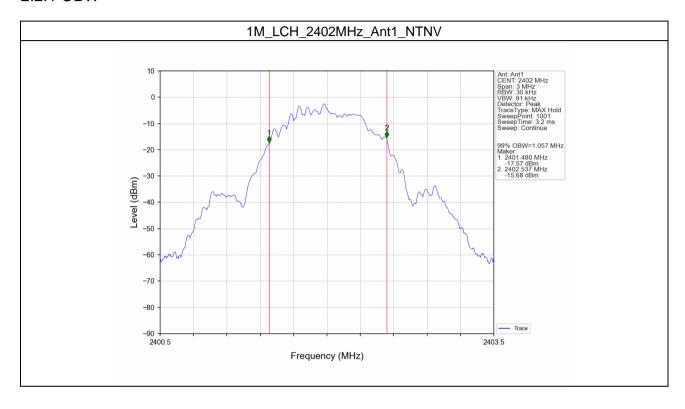
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2.2 Test Graph

2.2.1 OBW





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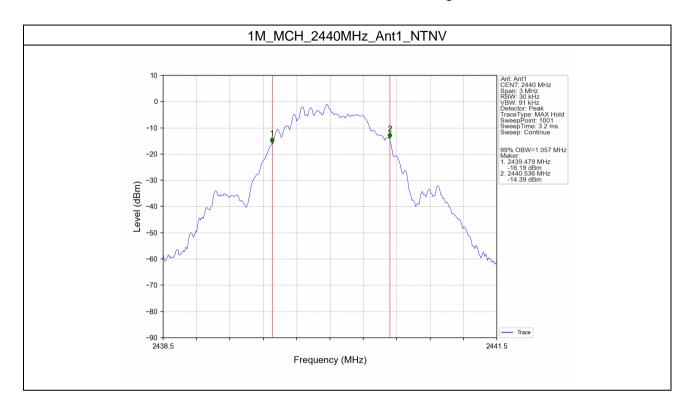
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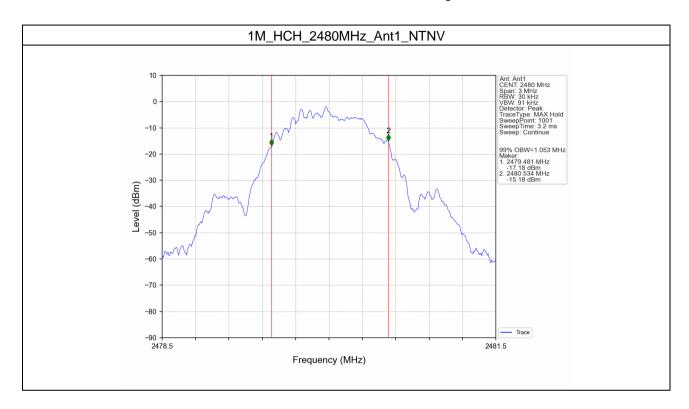
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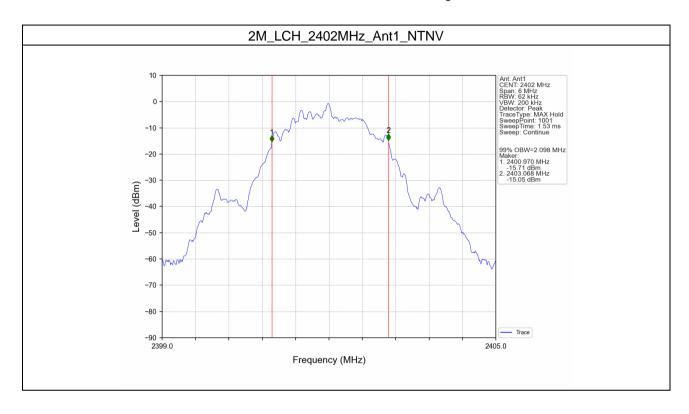
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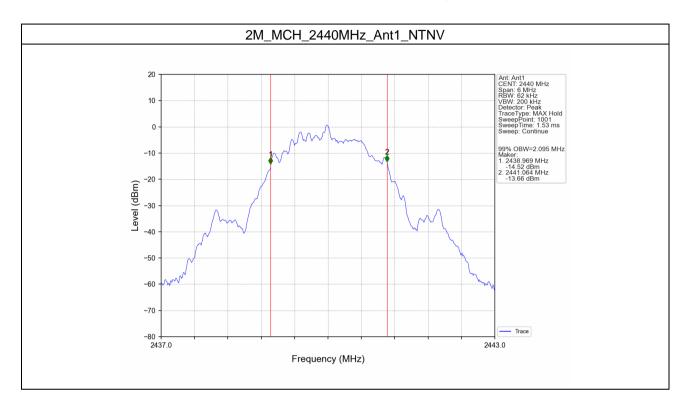
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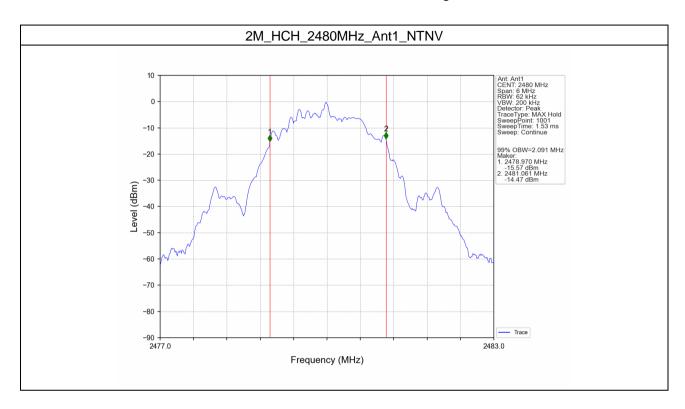
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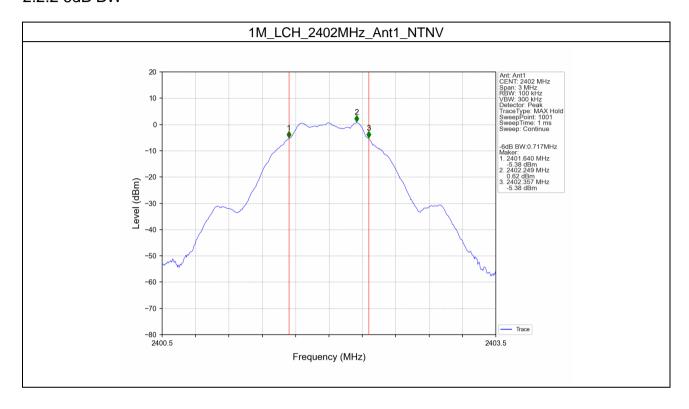


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2.2.2 6dB BW





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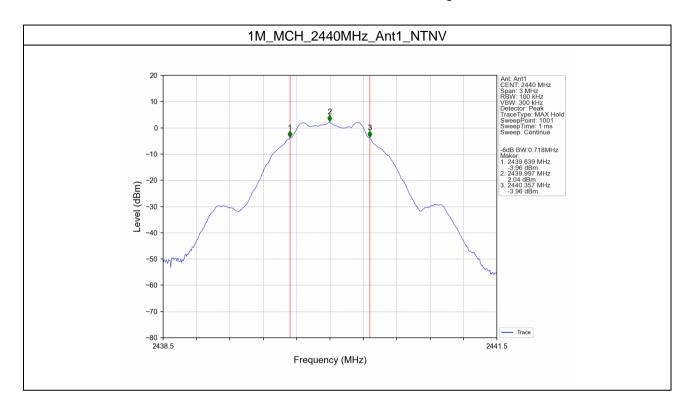
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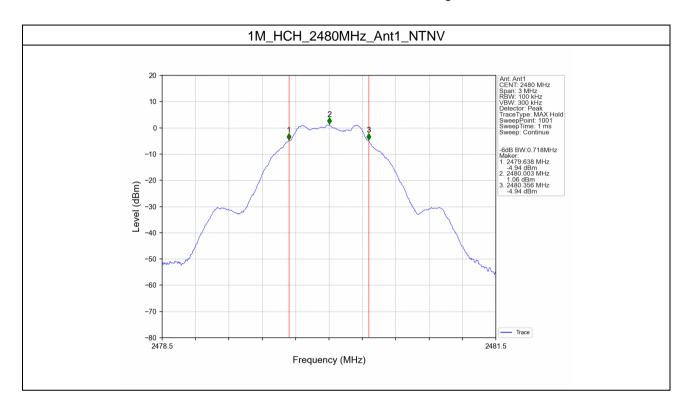
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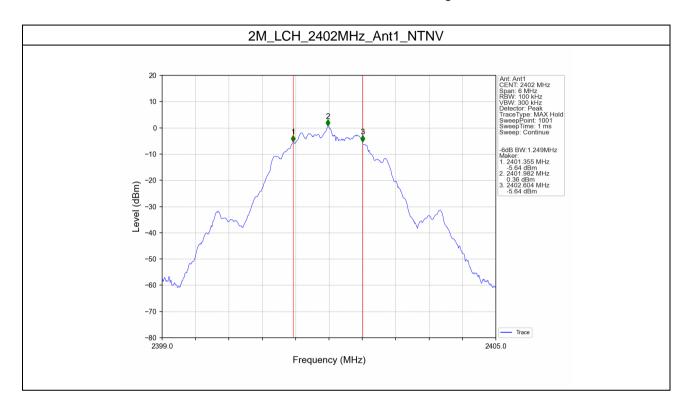
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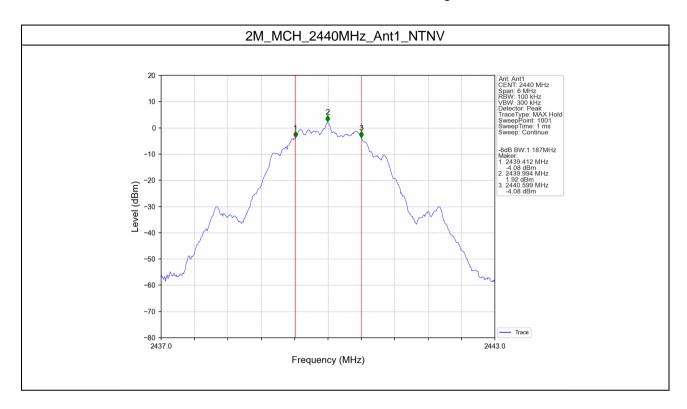
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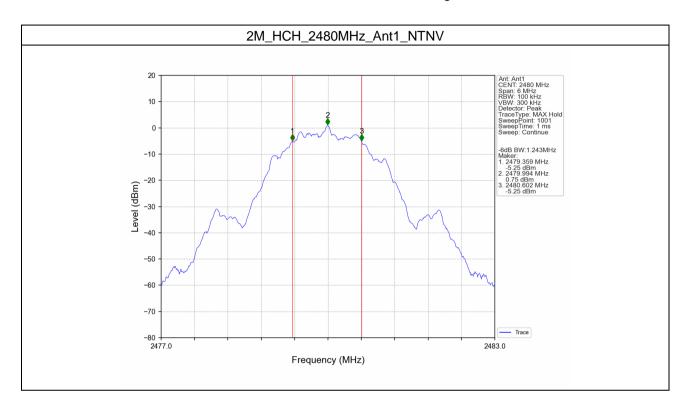
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3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conduc	\/ordiot	
			ANT1	Limit	Verdict
1M	SISO	2402	12.25	<=30	Pass
		2440	12.44	<=30	Pass
		2480	11.90	<=30	Pass
2M	SISO	2402	12.29	<=30	Pass
		2440	12.33	<=30	Pass
		2480	11.89	<=30	Pass
Note1: Antenna Gain: Ant1: 0.85dBi:					

4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Turno		Maximum PSD (dBm/3kHz)		\/o.mdi.o.t	
Туре	(MHz)	ANT1	Limit	Verdict	
SISO	2402	-3.60	<=8	Pass	
	2440	-3.35	<=8	Pass	
	2480	-3.88	<=8	Pass	
SISO	2402	-5.69	<=8	Pass	
	2440	-5.53	<=8	Pass	
	2480	-7.52	<=8	Pass	
-	SISO	SISO 2440 2480 2402 SISO 2440	SISO 2440 -3.35 2480 -3.88 2402 -5.69 SISO 2440 -5.53 2480 -7.52	SISO 2440 -3.35 <=8 2480 -3.88 <=8	



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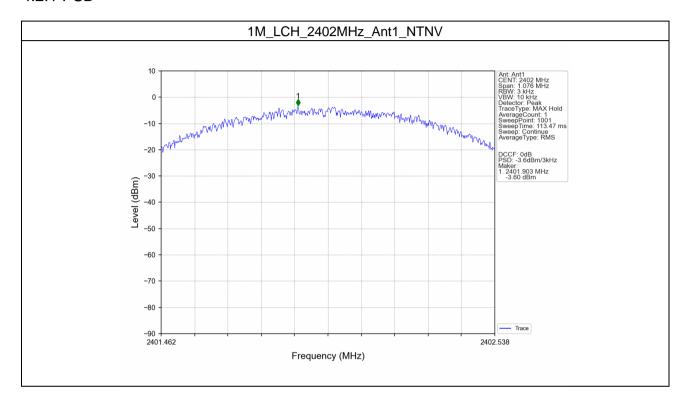
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4.2 Test Graph

4.2.1 PSD





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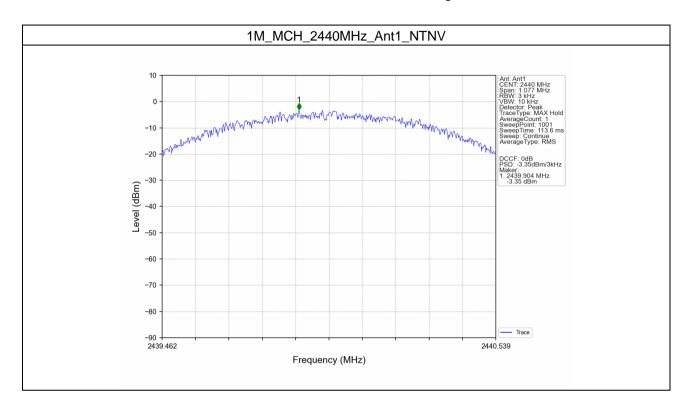
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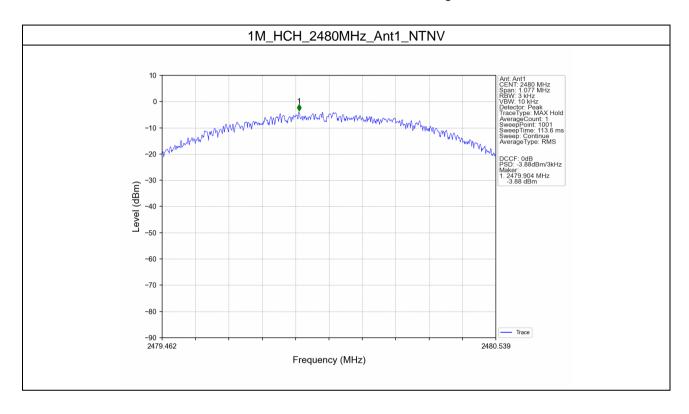
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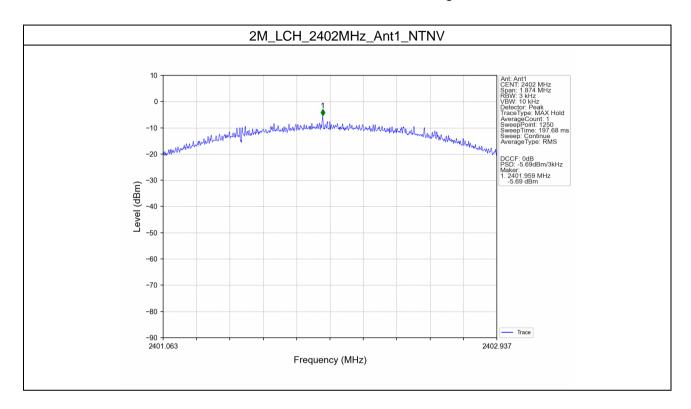
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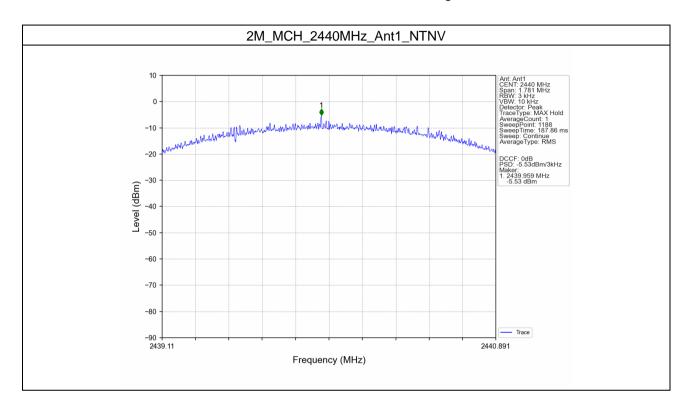
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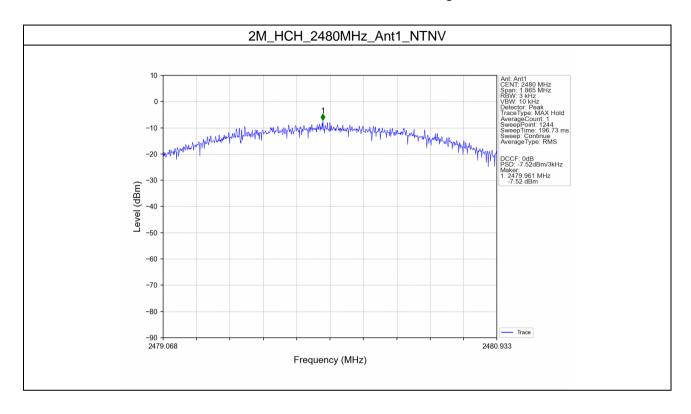
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Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
	SISO	2402	1	11.67
1M		2440	1	11.86
		2480	1	11.19
	SISO	2402	1	11.20
2M		2440	1	11.32
		2480	1	10.82

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

5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	11.86	-8.14	Pass
		2440	1	11.86	-8.14	Pass
		2480	1	11.86	-8.14	Pass
2M	SISO	2402	1	11.32	-8.68	Pass
		2440	1	11.32	-8.68	Pass
		2480	1	11.32	-8.68	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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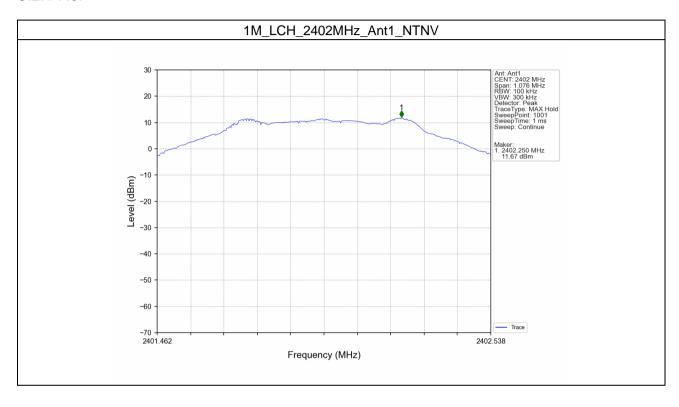
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5.2 Test Graph

5.2.1 Ref





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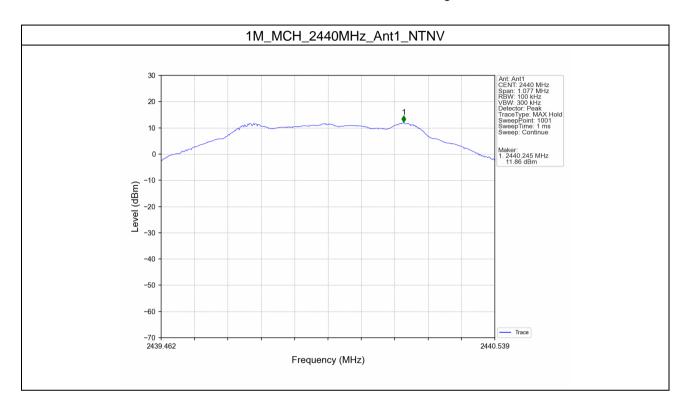
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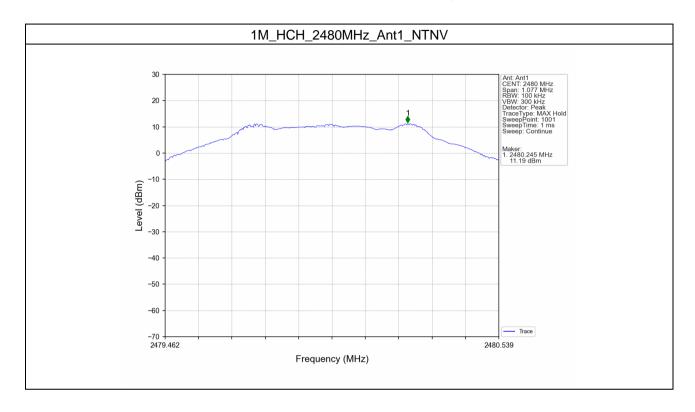
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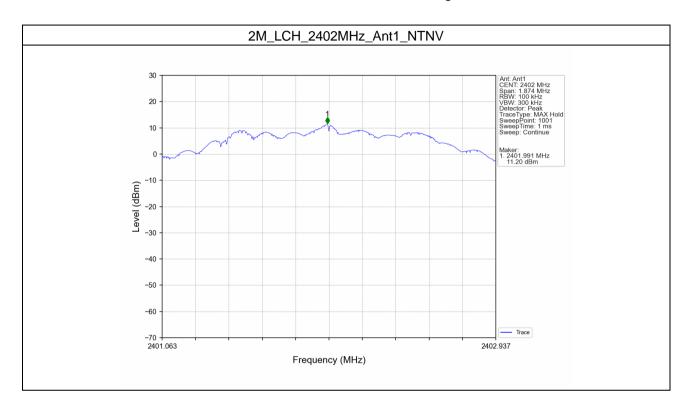
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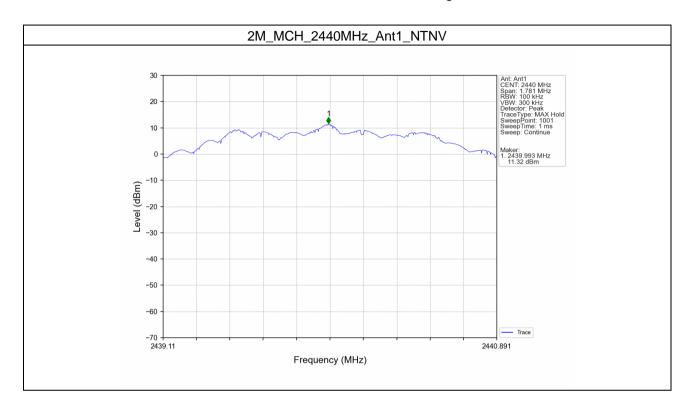
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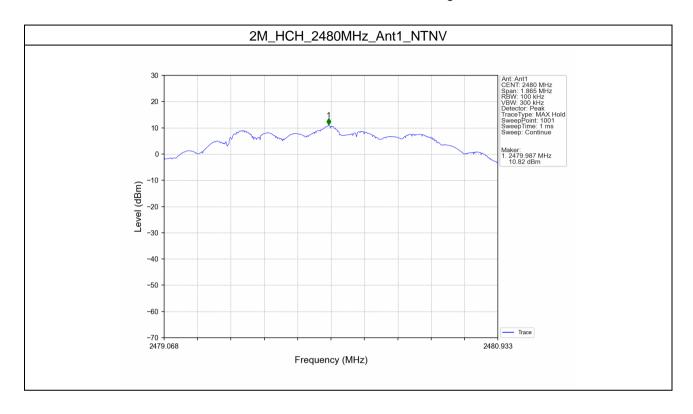
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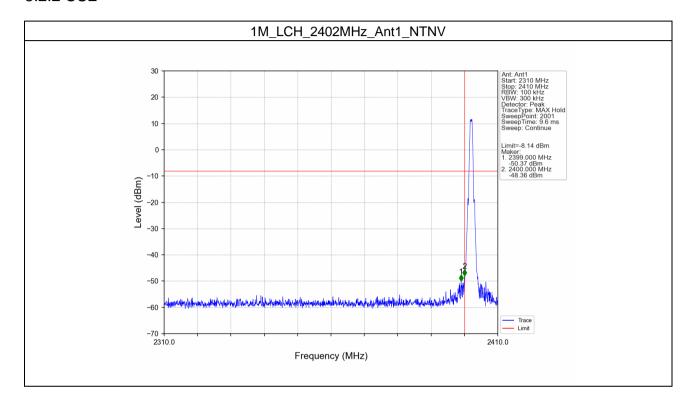


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5.2.2 CSF





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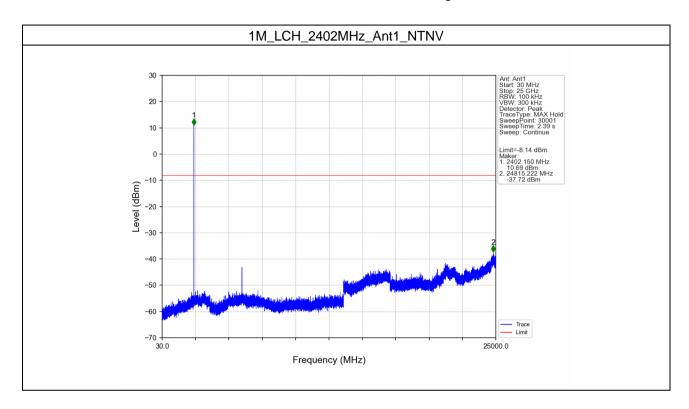
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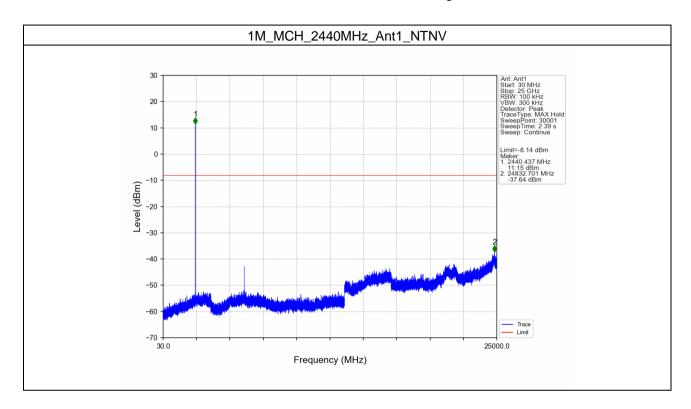
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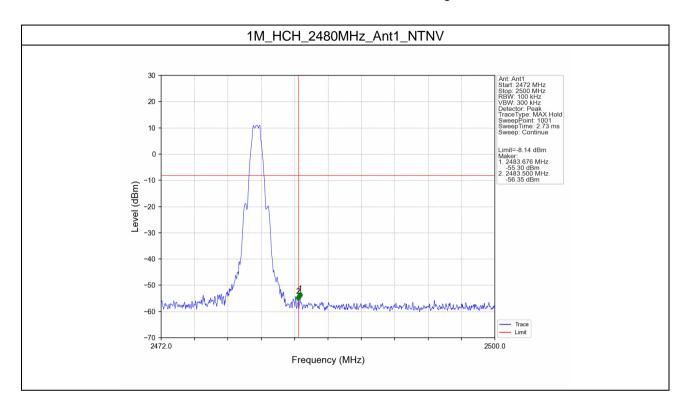
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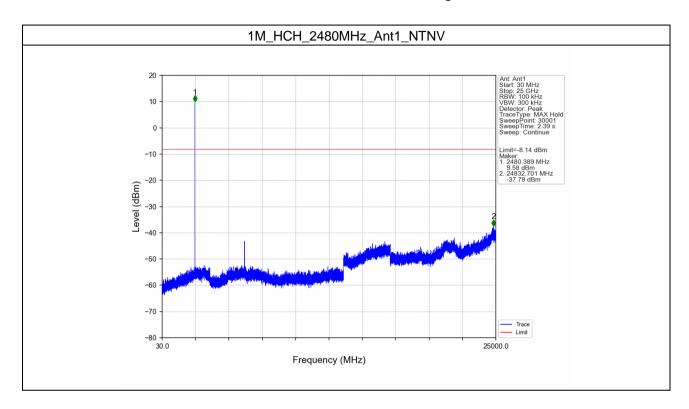
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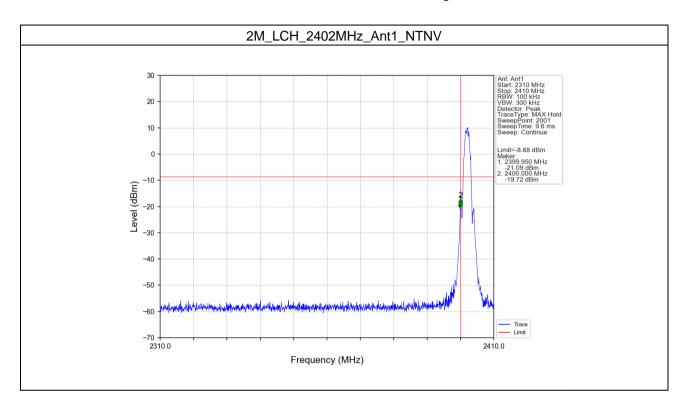
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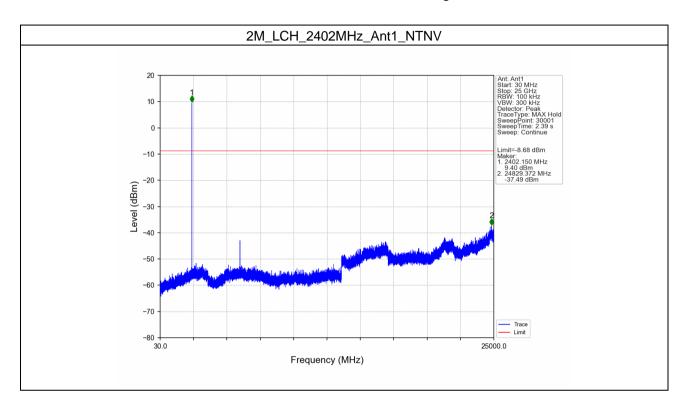
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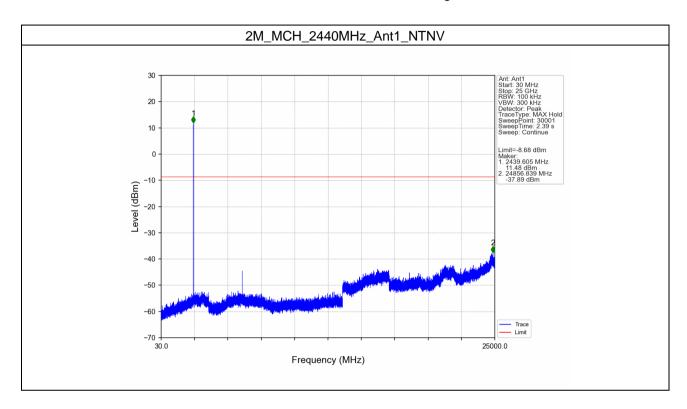
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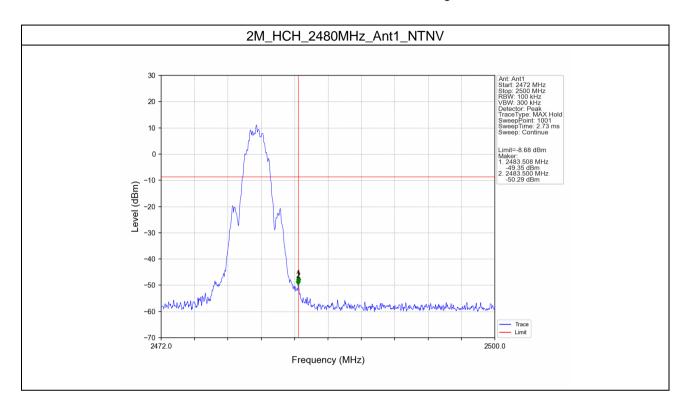
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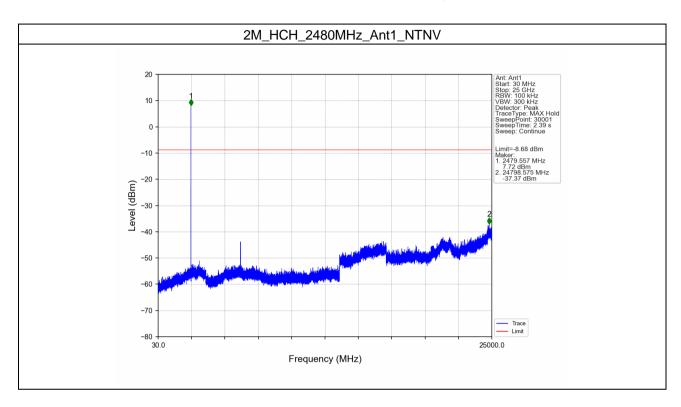
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