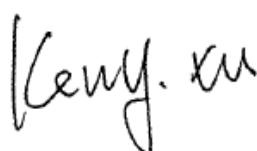


TEST REPORT

Application No.:	SZCR2501000164TL
Applicant:	UAB Teltonika Networks
Address of Applicant:	K. Baršausko st. 66, LT-51436, Kaunas, Lithuania
Manufacturer:	TELTONIKA NETWORKS, UAB
Address of Manufacturer:	K. Baršausko st. 66, LT-51436, Kaunas, Lithuania
Factory:	TELTONIKA EMS, UAB
Address of Factory:	Paluokesos st. 11, LT-33133, Molėtai, Lithuania
Equipment Under Test (EUT):	
EUT Name:	LTE Cat 6 Router (RUTX11), Ethernet Router (RUTX10)
Model No.:	RUTX11, RUTX10
♣	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark:	TELTONIKA
FCC ID:	2AET4RUTX11NA
Standard(s) :	47 CFR Part 15, Subpart C 15.247
Date of Receipt:	2025-01-10
Date of Test:	2025-01-23 to 2025-04-01
Date of Issue:	2025-04-07
Test Result:	Pass*

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



Keny Xu

EMC Laboratory Manager

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing Services Laboratory.

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100016402

Page: 2 of 59

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-04-07		Original

Authorized for issue by:			
		Charlie Dai	
		Charlie Dai/Project Engineer	
		Eric Fu	
		Eric Fu/Reviewer	

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2 Test Summary

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

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	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		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Conducted Peak Output Power		ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement		ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions		ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass

Declaration of EUT Family Grouping:

Model No.: RUTX11, RUTX10

Only the model RUTX11 was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used, internal wiring and functions were identical for all the above models, with only difference on RUTX10 – without top PCB, without mobile functionality.



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3 Contents

	Page
1 Cover Page	1
2 Test Summary	3
3 Contents	4
4 General Information.....	6
4.1 Details of E.U.T	6
4.2 Description of Support Units	6
4.3 Measurement Uncertainty	7
4.4 Test Location.....	8
4.5 Test Facility	8
4.6 Deviation from Standards.....	8
4.7 Abnormalities from Standard Conditions	8
5 Equipment List	9
6 Radio Spectrum Technical Requirement	12
6.1 Antenna Requirement	12
6.1.1 Test Requirement:	12
6.1.2 Conclusion	12
7 Radio Spectrum Matter Test Results	13
7.1 Conducted Emissions at AC Power Line (150kHz-30MHz).....	13
7.1.1 E.U.T. Operation	13
7.1.2 Test Mode Description	13
7.1.3 Test Setup Diagram	14
7.1.4 Measurement Procedure and Data.....	14
7.2 Radiated Emissions which fall in the restricted bands	17
7.2.1 E.U.T. Operation	17
7.2.2 Test Mode Description	17
7.2.3 Test Setup Diagram	18
7.2.4 Measurement Procedure and Data.....	19
7.3 Radiated Spurious Emissions Below 1GHz	24
7.3.1 E.U.T. Operation	24
7.3.2 Test Mode Description	24
7.3.3 Test Setup Diagram	25
7.3.4 Measurement Procedure and Data.....	25
7.4 Radiated Spurious Emissions Above 1GHz.....	28
7.4.1 E.U.T. Operation	28
7.4.2 Test Mode Description	28
7.4.3 Test Setup Diagram	28
7.4.4 Measurement Procedure and Data.....	29
7.5 Conducted Peak Output Power.....	36
7.5.1 E.U.T. Operation	36



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100016402

Page: 5 of 59

7.5.2	Test Mode Description	36
7.5.3	Test Setup Diagram	36
7.5.4	Measurement Procedure and Data.....	37
7.6	Minimum 6dB Bandwidth	38
7.6.1	E.U.T. Operation	38
7.6.2	Test Mode Description	38
7.6.3	Test Setup Diagram	38
7.6.4	Measurement Procedure and Data.....	38
7.7	Power Spectrum Density.....	39
7.7.1	E.U.T. Operation	39
7.7.2	Test Mode Description	39
7.7.3	Test Setup Diagram	39
7.7.4	Measurement Procedure and Data.....	39
7.8	Conducted Band Edges Measurement	40
7.8.1	E.U.T. Operation	40
7.8.2	Test Mode Description	40
7.8.3	Test Setup Diagram	41
7.8.4	Measurement Procedure and Data.....	41
7.9	Conducted Spurious Emissions	42
7.9.1	E.U.T. Operation	42
7.9.2	Test Mode Description	42
7.9.3	Test Setup Diagram	43
7.9.4	Measurement Procedure and Data.....	43
8	Test Setup Photo	44
9	EUT Constructional Details (EUT Photos)	44
10	Appendix.....	45

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4 General Information

4.1 Details of E.U.T.

Power supply:	Power by switching adapter Model No.: ASSA13A-120150 Input: AC 100-240V, 50/60Hz, 0.6A Output: DC 12V, 1.5A, 18W
Cable(s):	RUTX10: DC cable from Adapter 200cm unshielded; LAN cable 156cm unshielded; 2 pcs WIFI antenna 9.5cm shielded; 1 pcs BT antenna 150cm unshielded. RUTX11: DC cable from Adapter 200cm unshielded; LAN cable 156cm unshielded; 2 pcs Mobile antenna 9.5cm shielded; 1 pcs GPS antenna 295cm unshielded; 2 pcs WIFI antenna 9.5cm shielded; 1 pcs BT antenna 150cm unshielded.
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V4.0 Dual mode
Modulation Type:	GFSK
Data Rate:	1Mbps
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	SMA Dipole Antenna
Antenna Gain:	2.5dBi
Cable Loss (for RF conducted test):	0.8dB

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--

The EUT has been tested as an independent unit.



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

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{cispr/ETSI}$ (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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4.4 Test Location

All tests were performed at:

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Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI (Member No. 1937)**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd.

Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1336**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13
EMI Test Receiver	Rohde&Schwarz	ESR	SZ-WRG-M-047	2024-01-30 2025-01-08	2025-01-29 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	2024-03-14 2025-03-03	2025-03-13 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	2024-03-14 2025-03-04	2025-03-13 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



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100016402

Page: 10 of 59

Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	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	Tonscend	TAP18040048	SZ-WRG-M-052	2025-01-08	2026-01-07
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2023-12-21	2025-12-20
SHF-EHF Horn 15GHz-40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2023-12-25	2025-12-24
RSE Test Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	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	2024-03-27 2025-03-04	2025-03-26 2026-03-03
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2024-03-14 2025-03-04	2025-03-13 2026-03-03
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14 2025-03-04	2025-03-13 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	2024-03-27 2025-03-03	2025-03-26 2026-03-02

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100016402

Page: 11 of 59

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18 2025-03-03	2025-03-17 2026-03-02

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6 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 detachable antenna with RP-SMA connector. The best case gain of the antenna is 2.5dBi.

Antenna location: Refer to external photos



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7 Radio Spectrum Matter Test Results

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

Test Requirement 47 CFR Part 15, Subpart C 15.207

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of emission(MHz)	Conducted limit(dB μ V)	
	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.

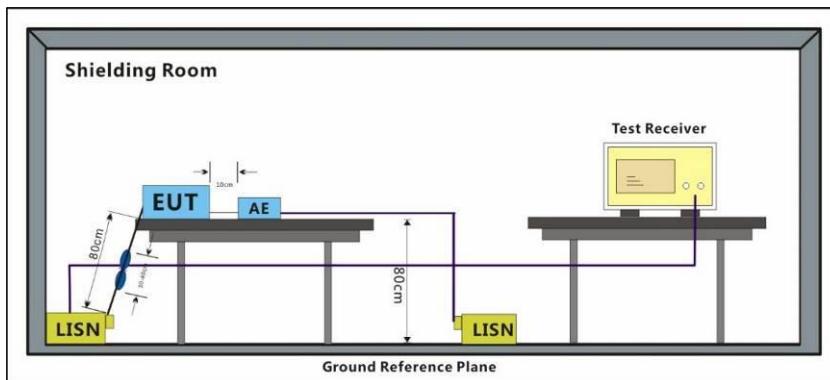
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7.1.3 Test Setup Diagram**7.1.4 Measurement Procedure and Data**

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

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



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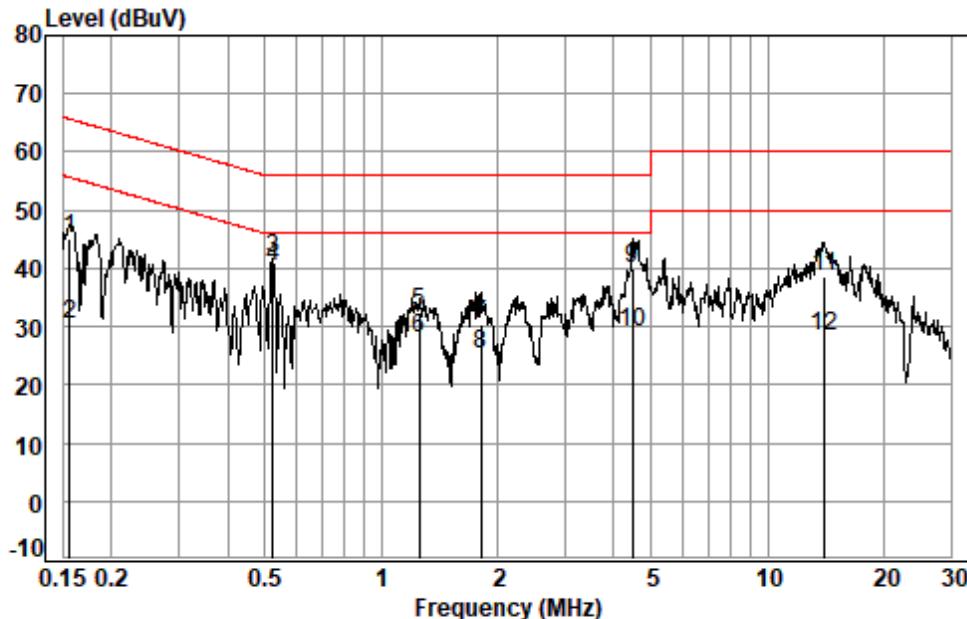
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Test Mode: 02; Line: Live line



Site : Shielding Room
 Condition: Line
 Job No. : 00164TL/00165TL
 Test mode: 02 RUTX11

	Freq	Cable	LISN	Read	Limit		Over	Remark
		Loss	Factor	Level	Level	Line	Limit	
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1565	0.06	10.18	34.92	45.16	65.65	-20.49	QP
2	0.1565	0.06	10.18	20.20	30.44	55.65	-25.21	Average
3 *	0.5238	0.08	9.56	32.08	41.72	56.00	-14.28	QP
4 *	0.5238	0.08	9.56	30.61	40.25	46.00	-5.75	Average
5	1.2555	0.09	9.58	22.82	32.49	56.00	-23.51	QP
6	1.2555	0.09	9.58	18.15	27.82	46.00	-18.18	Average
7	1.8096	0.10	9.58	20.82	30.50	56.00	-25.50	QP
8	1.8096	0.10	9.58	15.66	25.34	46.00	-20.66	Average
9	4.4777	0.12	9.66	30.14	39.92	56.00	-16.08	QP
10	4.4777	0.12	9.66	19.07	28.85	46.00	-17.15	Average
11	14.0629	0.25	9.88	28.46	38.59	60.00	-21.41	QP
12	14.0629	0.25	9.88	18.30	28.43	50.00	-21.57	Average

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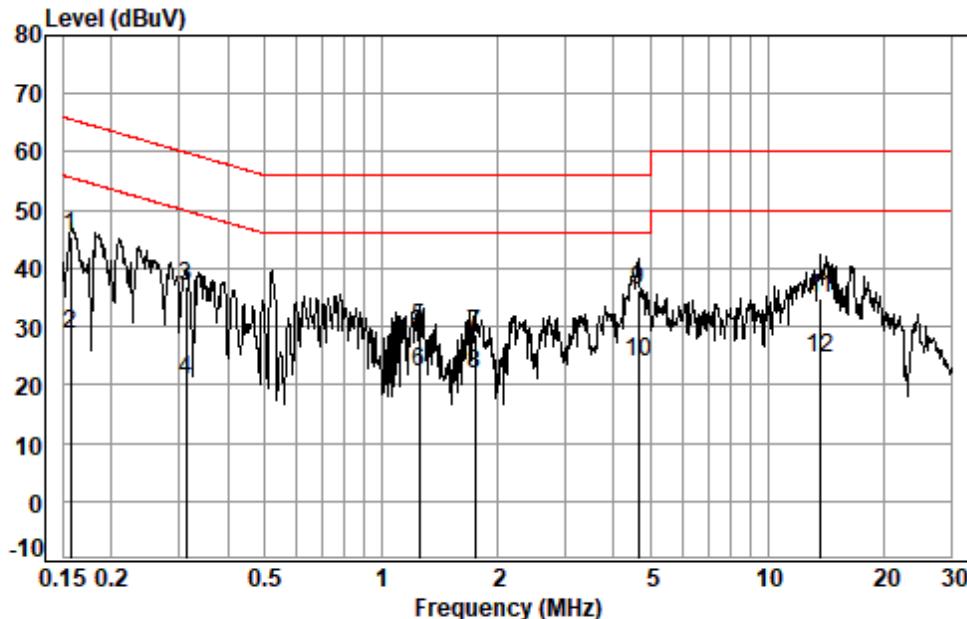
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Test Mode: 02; Line: Neutral Line



Site : Shielding Room
 Condition: Neutral
 Job No. : 00164TL/00165TL
 Test mode: 02 RUTX11

	Freq	Cable	LISN	Read	Limit	Over	Remark
		Freq	Loss	Factor	Level	Level	
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.1573	0.06	10.14	35.13	45.33	65.60	-20.27 QP
2	0.1573	0.06	10.14	18.51	28.71	55.60	-26.89 Average
3	0.3133	0.07	9.76	27.07	36.90	59.88	-22.98 QP
4	0.3133	0.07	9.76	11.06	20.89	49.88	-28.99 Average
5	1.2555	0.09	9.54	19.90	29.53	56.00	-26.47 QP
6	1.2555	0.09	9.54	12.58	22.21	46.00	-23.79 Average
7	1.7529	0.10	9.55	18.91	28.56	56.00	-27.44 QP
8	1.7529	0.10	9.55	12.34	21.99	46.00	-24.01 Average
9 *	4.6223	0.12	9.56	26.43	36.11	56.00	-19.89 QP
10 *	4.6223	0.12	9.56	14.06	23.74	46.00	-22.26 Average
11	13.6952	0.25	9.79	24.90	34.94	60.00	-25.06 QP
12	13.6952	0.25	9.79	14.55	24.59	50.00	-25.41 Average

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7.2 Radiated Emissions which fall in the restricted bands

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

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

Measurement Distance: 3m

Limit:

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

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

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C Humidity: 58.4 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

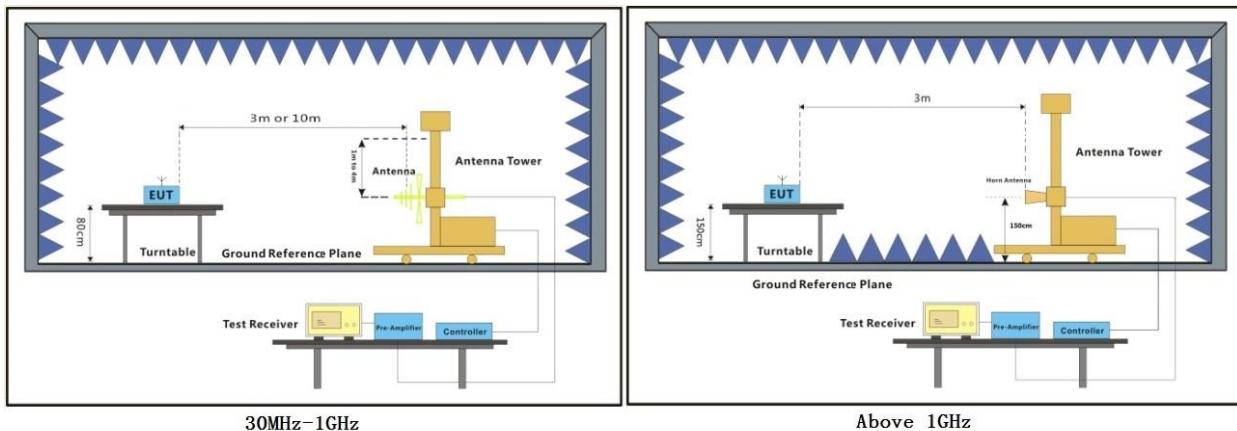
Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

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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.

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.

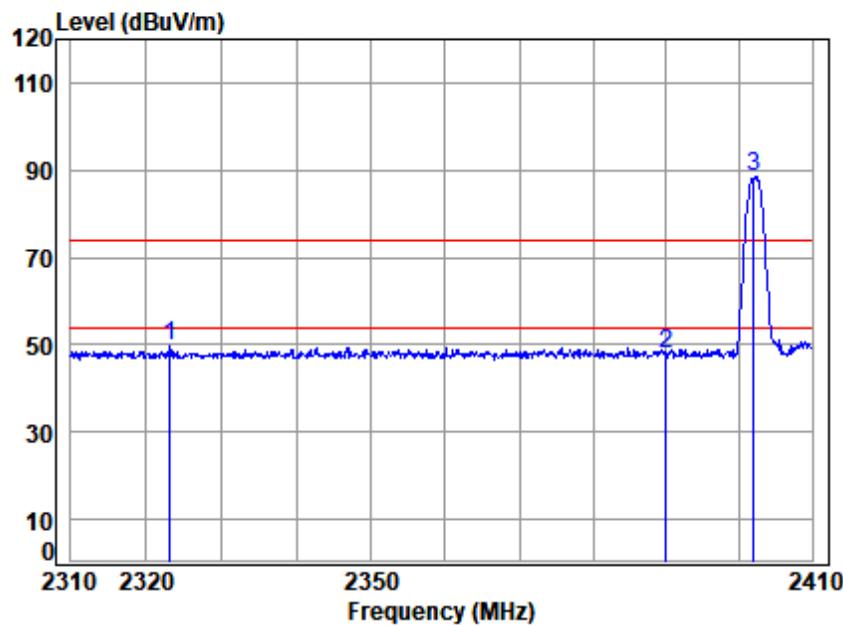
Remark 4: For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.

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



Condition: 3m HORIZONTAL

Job No : 00164TL/00165TL

Mode : 2402 Band edge
: BLE

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Level	Level	Line	
1	2323.155	6.79	27.25	31.53	47.01	49.52	74.00 -24.48 peak
2	2390.000	6.82	27.46	31.54	45.27	48.01	74.00 -25.99 peak
3 pp	2402.000	6.84	27.50	31.54	85.59	88.39	74.00 14.39 peak

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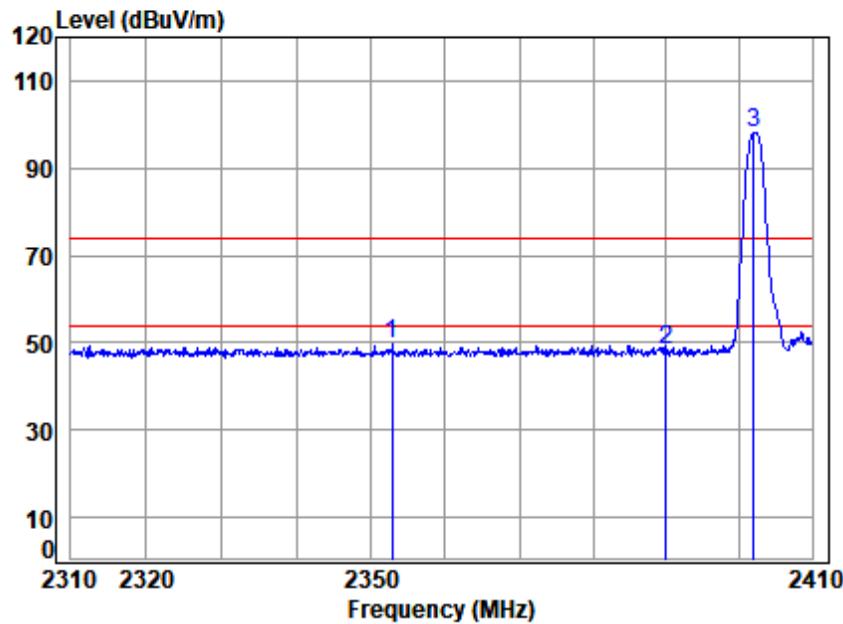
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL

Job No : 00164TL/00165TL

Mode : 2402 Band edge
: BLE

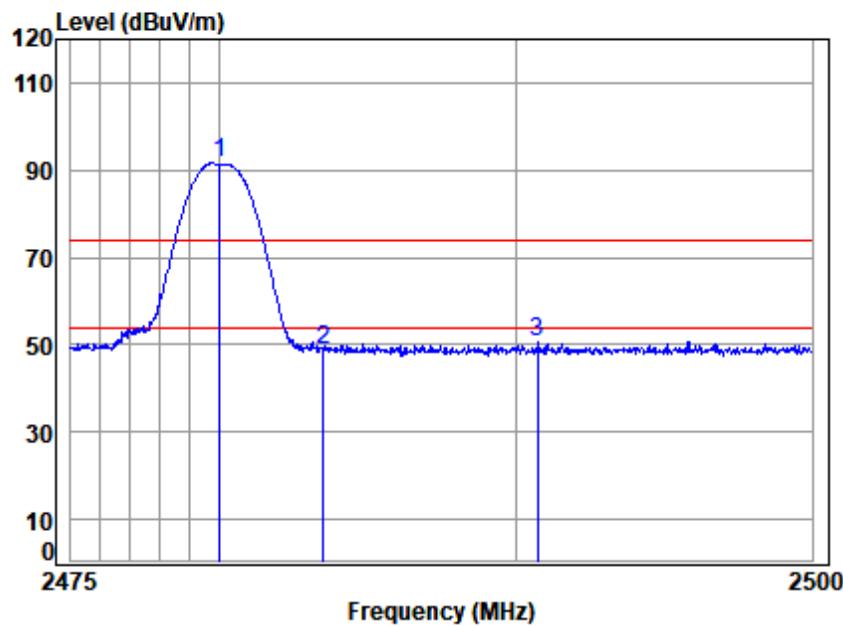
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Level	Level	Line	
1	2352.880	6.81	27.31	31.54	47.20	49.78	74.00 -24.22 peak
2	2390.000	6.82	27.46	31.54	45.50	48.24	74.00 -25.76 peak
3 pp	2402.000	6.84	27.50	31.54	95.42	98.22	74.00 24.22 peak



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



Condition: 3m HORIZONTAL
Job No : 00164TL/00165TL
Mode : 2480 Band edge
: BLE

1	pp	2480.000	Cable	Ant	Preamp	Read	Limit	Over	Remark	
			Freq	Loss	Factor	Level	Level	Line		
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp	2480.000	7.37	27.78	31.55	87.93	91.53	74.00	17.53	peak
2		2483.500	7.40	27.80	31.55	45.09	48.74	74.00	-25.26	peak
3		2490.721	7.45	27.84	31.55	47.07	50.81	74.00	-23.19	peak

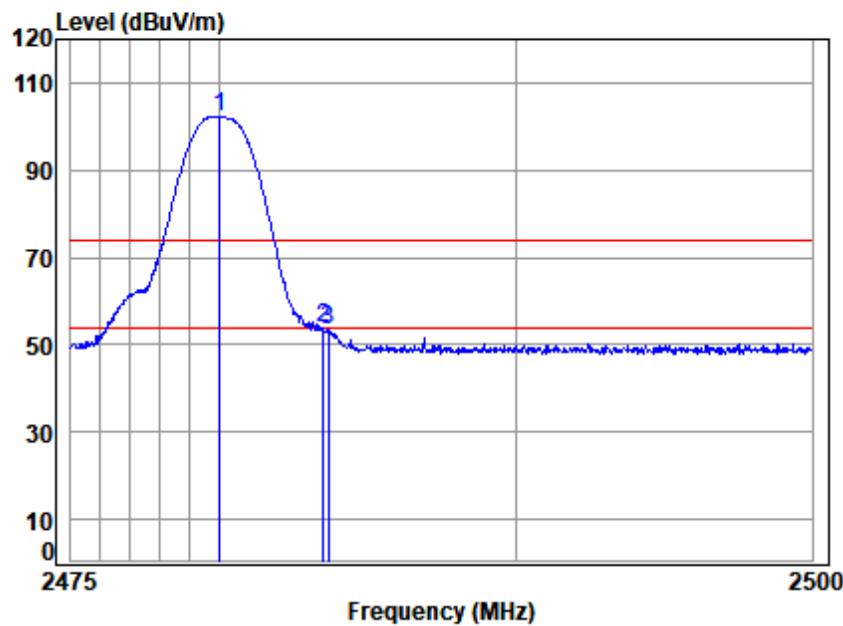
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



Condition: 3m VERTICAL

Job No : 00164TL/00165TL

Mode : 2480 Band edge
: BLE

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	pp 2480.000	7.37	27.78	31.55	98.73	102.33	74.00	28.33 peak
2	2483.500	7.40	27.80	31.55	50.00	53.65	74.00	-20.35 peak
3	2483.672	7.40	27.80	31.55	49.82	53.47	74.00	-20.53 Peak



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7.3 Radiated Spurious Emissions Below 1GHz

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

Test Method: ANSI C63.10 (2013) Section 6.4,6.5

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °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.

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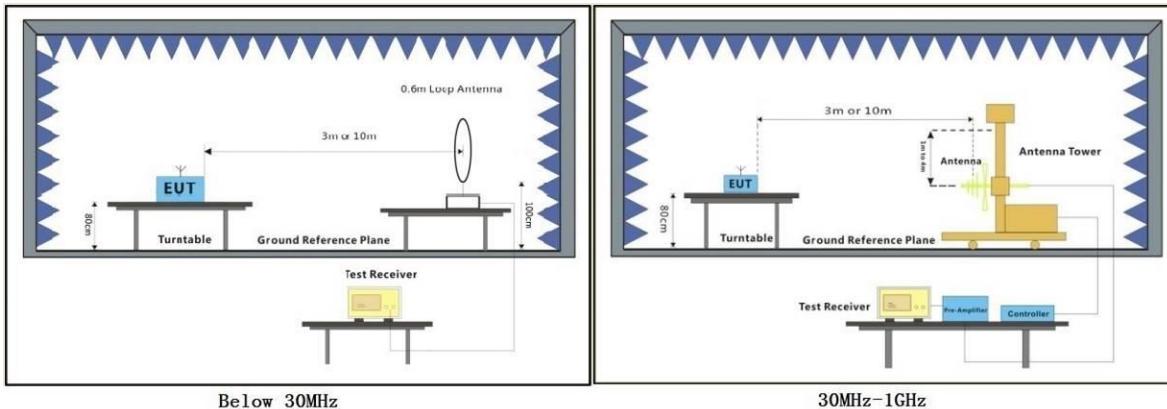
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7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

- 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.
- 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.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- 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.
- 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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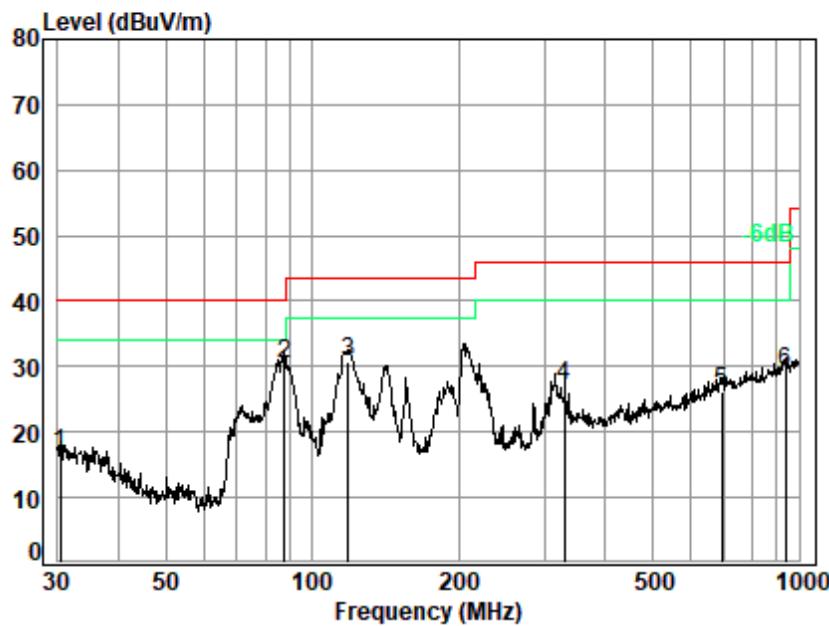
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Test Mode: 02; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 00164TL
Test Mode: 02

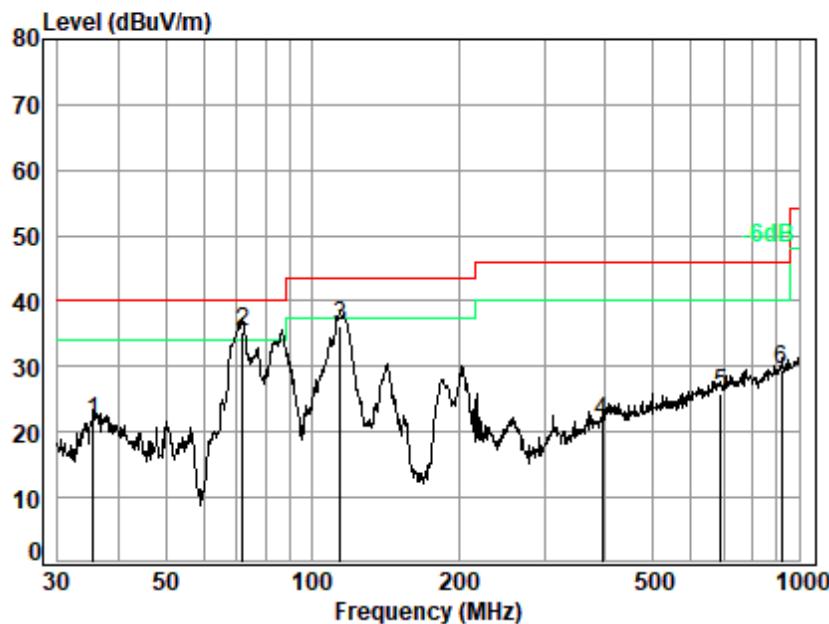
Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Limit		Over Limit	Remark	
					MHz	dB/m	dB	dBuV	dBuV/m
1	30.424	21.00	0.68	27.79	22.78	16.67	40.00	-23.33	QP
2 q	87.725	11.43	1.14	27.63	45.44	30.38	40.00	-9.62	QP
3	118.601	11.16	1.35	27.51	45.66	30.66	43.50	-12.84	QP
4	330.195	18.71	2.33	26.87	33.05	27.22	46.00	-18.78	QP
5	694.417	25.82	3.52	27.74	24.66	26.26	46.00	-19.74	QP
6	938.833	28.15	4.22	26.49	23.46	29.34	46.00	-16.66	QP

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Test Mode: 02; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 00164TL
Test Mode: 02

Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Limit		Over Limit	Remark	
					MHz	dB/m	dB	dBuV	dBuV/m
1	35.499	18.59	0.73	27.78	29.96	21.50	40.00	-18.50	QP
2 q	72.084	10.48	1.04	27.67	51.54	35.39	40.00	-4.61	QP
3	114.114	11.50	1.32	27.53	51.02	36.31	43.50	-7.19	QP
4	394.855	20.70	2.56	27.14	25.37	21.49	46.00	-24.51	QP
5	689.565	25.69	3.51	27.75	24.28	25.73	46.00	-20.27	QP
6	922.516	28.19	4.18	26.60	23.69	29.46	46.00	-16.54	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

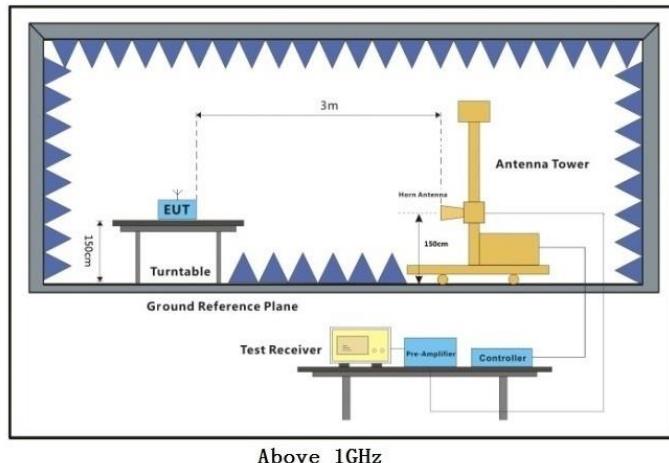
Operating Environment:

Temperature: 21.5 °C Humidity: 60.1 % RH Atmospheric Pressure: 1020 mbar

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.

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.
- 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 $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.



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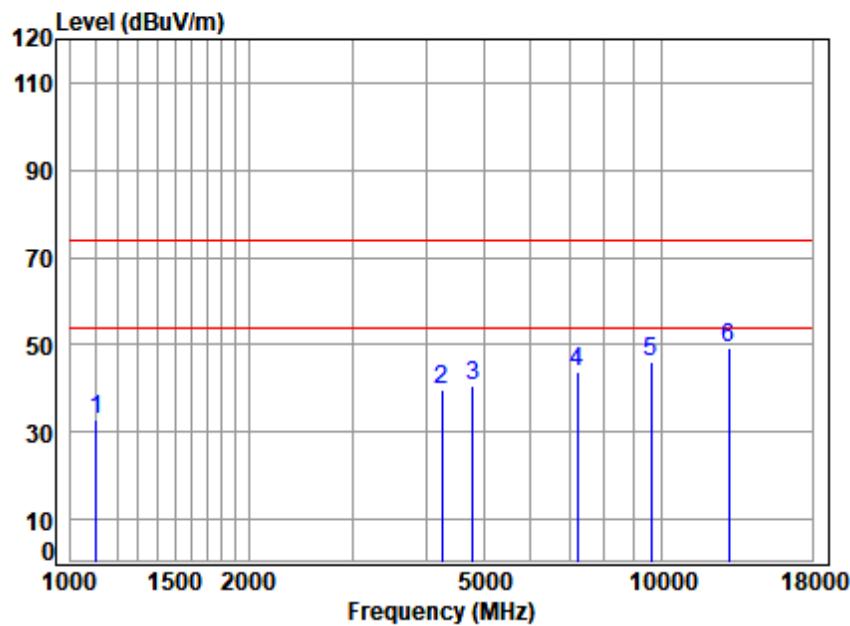
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low



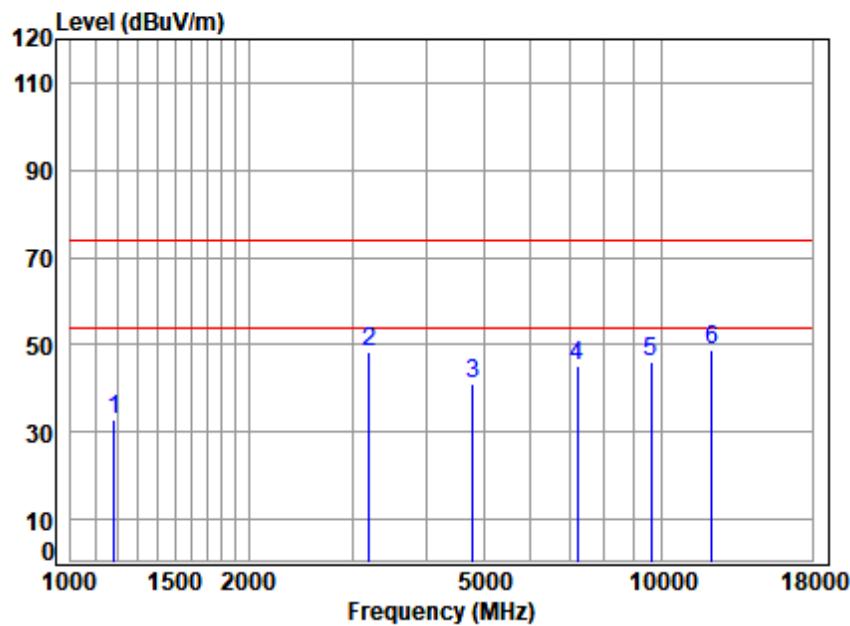
Condition: 3m HORIZONTAL
Job No : 00164TL/00165TL
Mode : 2402 TX RSE
: BLE

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	MHz	Loss	Factor	Factor	Level	Level	Line	Limit
1	1106.457	7.11	25.57	54.70	54.78	32.76	74.00	-41.24 peak
2	4254.921	8.48	31.12	55.78	56.01	39.83	74.00	-34.17 peak
3	4804.000	8.90	31.92	56.16	55.94	40.60	74.00	-33.40 peak
4	7206.000	11.10	36.60	56.54	52.49	43.65	74.00	-30.35 peak
5	9608.000	12.38	38.78	54.45	49.47	46.18	74.00	-27.82 peak
6	pp12984.540	15.26	40.32	54.49	48.10	49.19	74.00	-24.81 peak

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



Condition: 3m VERTICAL

Job No : 00164TL/00165TL

Mode : 2402 TX RSE

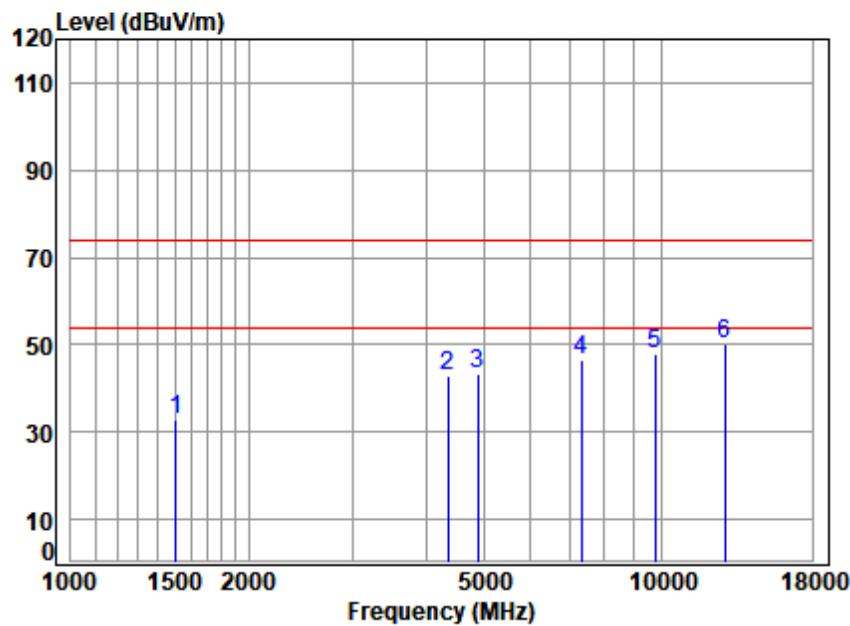
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Level	Level	Line	
1	1185.936	7.18	25.33	54.70	54.99	32.80	74.00 -41.20 peak
2	3196.094	7.70	29.20	55.12	66.51	48.29	74.00 -25.71 peak
3	4804.000	8.90	31.92	56.16	56.24	40.90	74.00 -33.10 peak
4	7206.000	11.10	36.60	56.54	54.04	45.20	74.00 -28.80 peak
5	9608.000	12.38	38.78	54.45	49.27	45.98	74.00 -28.02 peak
6	pp12184.580	14.48	39.87	53.93	48.52	48.94	74.00 -25.06 peak



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



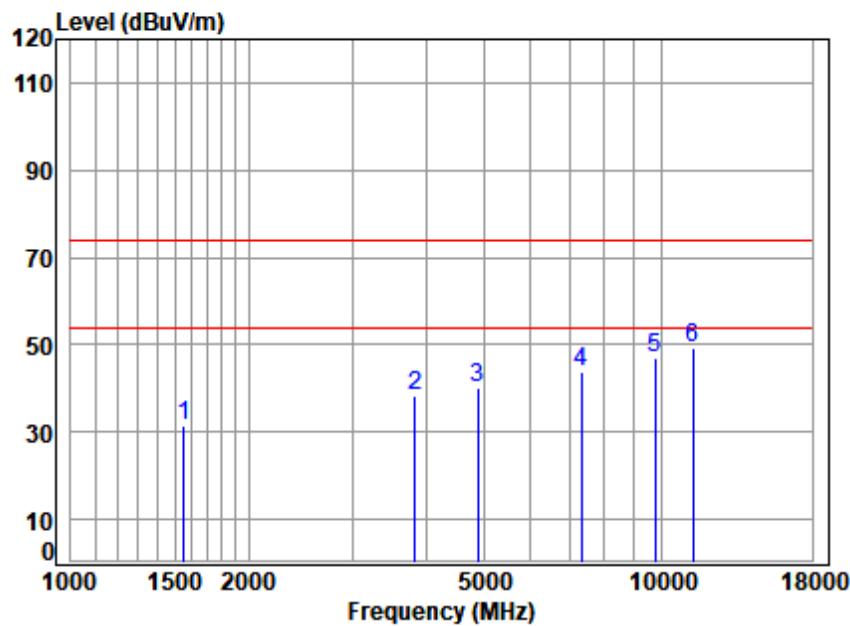
Condition: 3m HORIZONTAL
 Job No : 00164TL/00165TL
 Mode : 2440 TX RSE
 : BLE

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Factor	Level	Level	
1	1507.470	7.21	24.91	54.70	55.54	32.96	74.00 -41.04 peak
2	4354.454	8.50	31.29	55.85	58.78	42.72	74.00 -31.28 peak
3	4880.000	8.98	32.16	56.22	58.32	43.24	74.00 -30.76 peak
4	7320.000	11.12	36.74	56.44	55.18	46.60	74.00 -27.40 peak
5	9760.000	12.84	38.60	54.32	50.91	48.03	74.00 -25.97 peak
6	pp12798.240	15.15	40.30	54.36	49.24	50.33	74.00 -23.67 peak

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



Condition: 3m VERTICAL

Job No : 00164TL/00165TL

Mode : 2440 TX RSE

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Factor	Level	Level	
1	1556.169	7.15	25.01	54.70	53.99	31.45	74.00 -42.55 Peak
2	3823.371	8.02	29.85	55.49	56.13	38.51	74.00 -35.49 Peak
3	4880.000	8.98	32.16	56.22	55.32	40.24	74.00 -33.76 peak
4	7320.000	11.12	36.74	56.44	52.59	44.01	74.00 -29.99 peak
5	9760.000	12.84	38.60	54.32	49.73	46.85	74.00 -27.15 peak
6	pp11302.480	14.39	39.70	53.59	48.80	49.30	74.00 -24.70 peak

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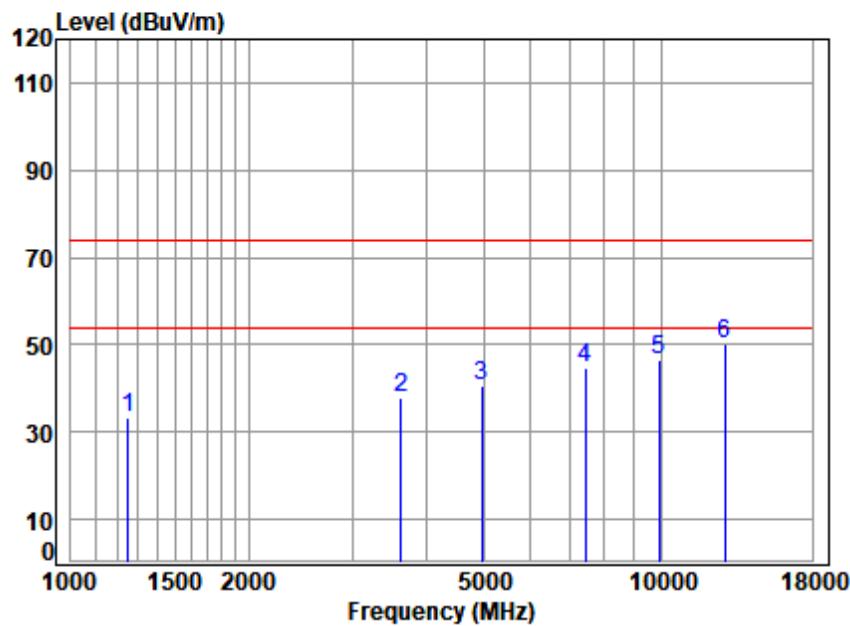
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



Condition: 3m HORIZONTAL
Job No : 00164TL/00165TL
Mode : 2480 TX RSE
: BLE

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Level	Level	Line	
1	1252.885	7.17	25.29	54.70	55.49	33.25	74.00 -40.75 peak
2	3629.540	7.80	29.84	55.38	55.51	37.77	74.00 -36.23 Peak
3	4960.000	9.07	32.20	56.27	55.82	40.82	74.00 -33.18 peak
4	7440.000	11.08	36.78	56.35	53.05	44.56	74.00 -29.44 peak
5	9920.000	12.73	38.90	54.17	48.90	46.36	74.00 -27.64 peak
6	pp12798.240	15.15	40.30	54.36	48.95	50.04	74.00 -23.96 peak

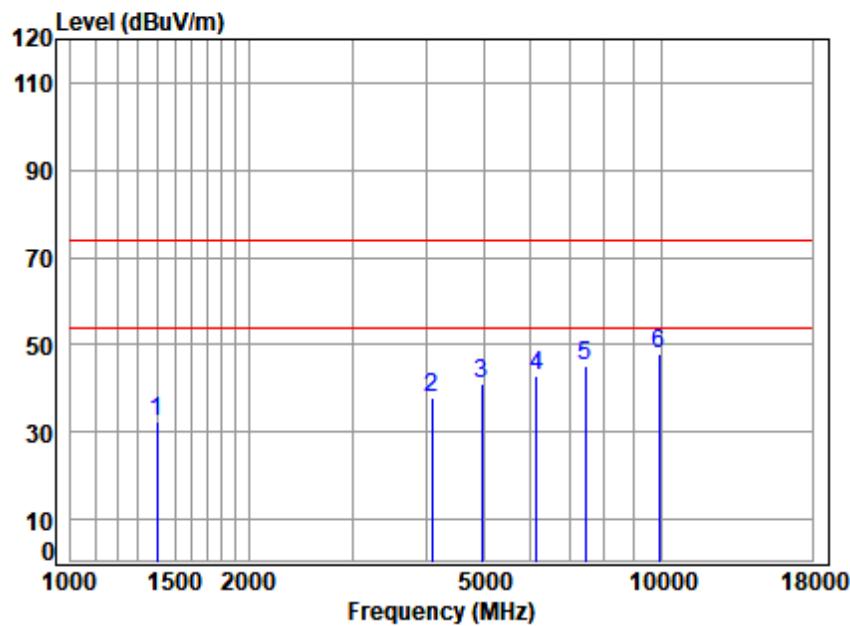
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



Condition: 3m VERTICAL

Job No : 00164TL/00165TL

Mode : 2480 TX RSE

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Factor	Level	Level	
1	1398.336	7.21	25.00	54.70	54.83	32.34	74.00 -41.66 Peak
2	4086.182	8.33	30.37	55.66	54.74	37.78	74.00 -36.22 Peak
3	4960.000	9.07	32.20	56.27	56.27	41.27	74.00 -32.73 peak
4	6142.019	10.40	34.12	56.87	55.07	42.72	74.00 -31.28 Peak
5	7440.000	11.08	36.78	56.35	53.50	45.01	74.00 -28.99 peak
6 pp	9920.000	12.73	38.90	54.17	50.65	48.11	74.00 -25.89 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)
902-928	1 for ≥ 50 hopping channels
	0.25 for $25 \leq$ hopping channels < 50
	1 for digital modulation
2400-2483.5	1 for ≥ 75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

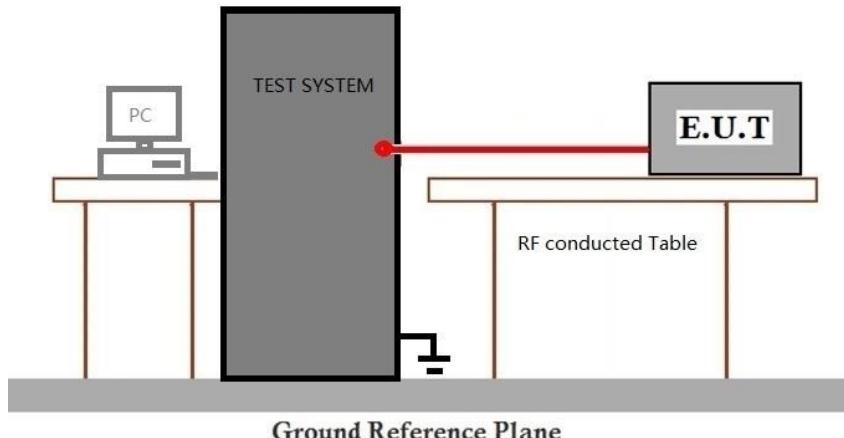
7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22.6 °C Humidity: 43.1 % RH Atmospheric Pressure: 1020 mbar

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.

7.5.3 Test Setup Diagram

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7.5.4 Measurement Procedure and Data

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

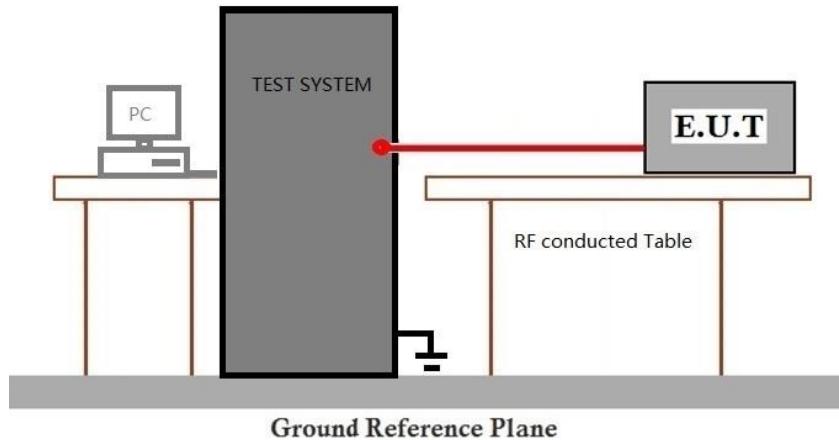
Operating Environment:

Temperature: 22.6 °C Humidity: 43.1 % RH Atmospheric Pressure: 1020 mbar

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.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.7 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)

Test Method: ANSI C63.10 (2013) Section 11.10.2

Limit:

≤8dBm in any 3 kHz band during any time interval of continuous transmission

7.7.1 E.U.T. Operation

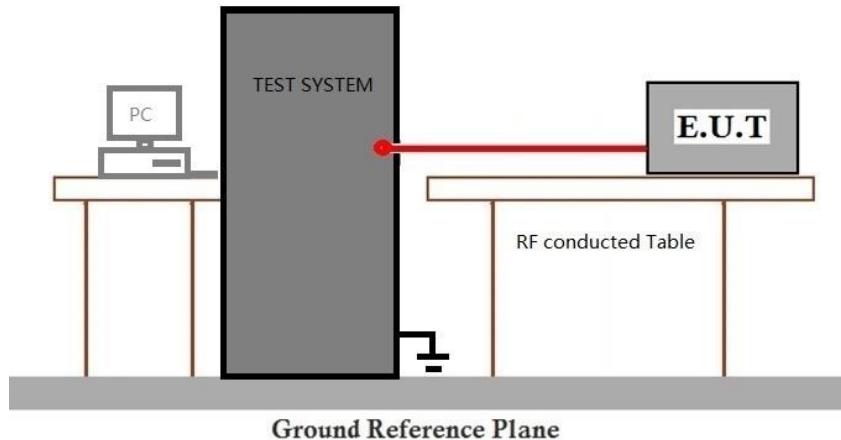
Operating Environment:

Temperature: 22.6 °C Humidity: 43.1 % 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.

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

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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: 22.6 °C Humidity: 43.1 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

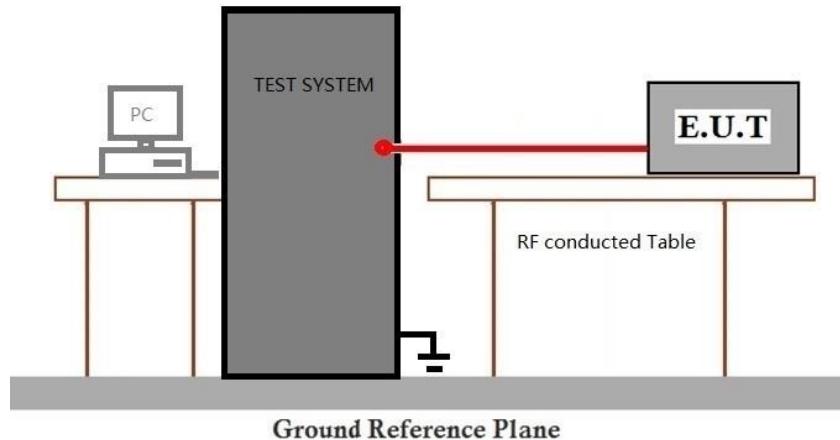
Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

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7.8.3 Test Setup Diagram**7.8.4 Measurement Procedure and Data**

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7.9 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

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

Limit:

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

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 22.6 °C Humidity: 43.1 % 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.

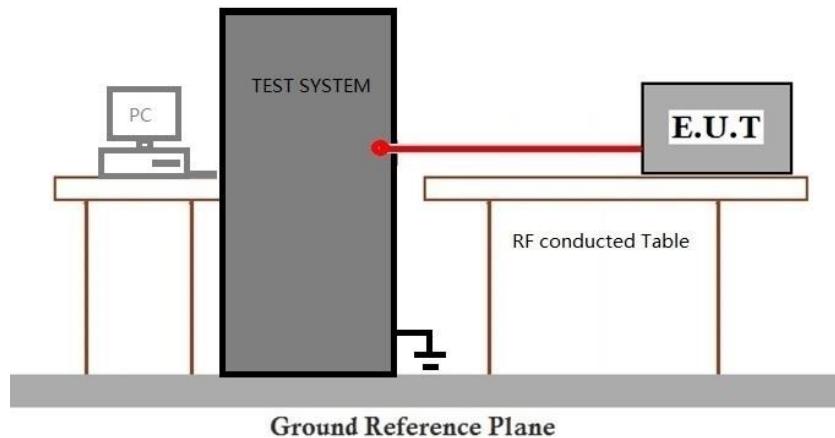
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7.9.3 Test Setup Diagram**7.9.4 Measurement Procedure and Data**

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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2501000164TL

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2501000164TL



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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 (%)
1M	SISO	2402	0.408	0.649	62.87	2.02	0.05
		2440	0.402	0.649	61.94	2.08	0.04
		2480	0.404	0.649	62.25	2.06	0.04



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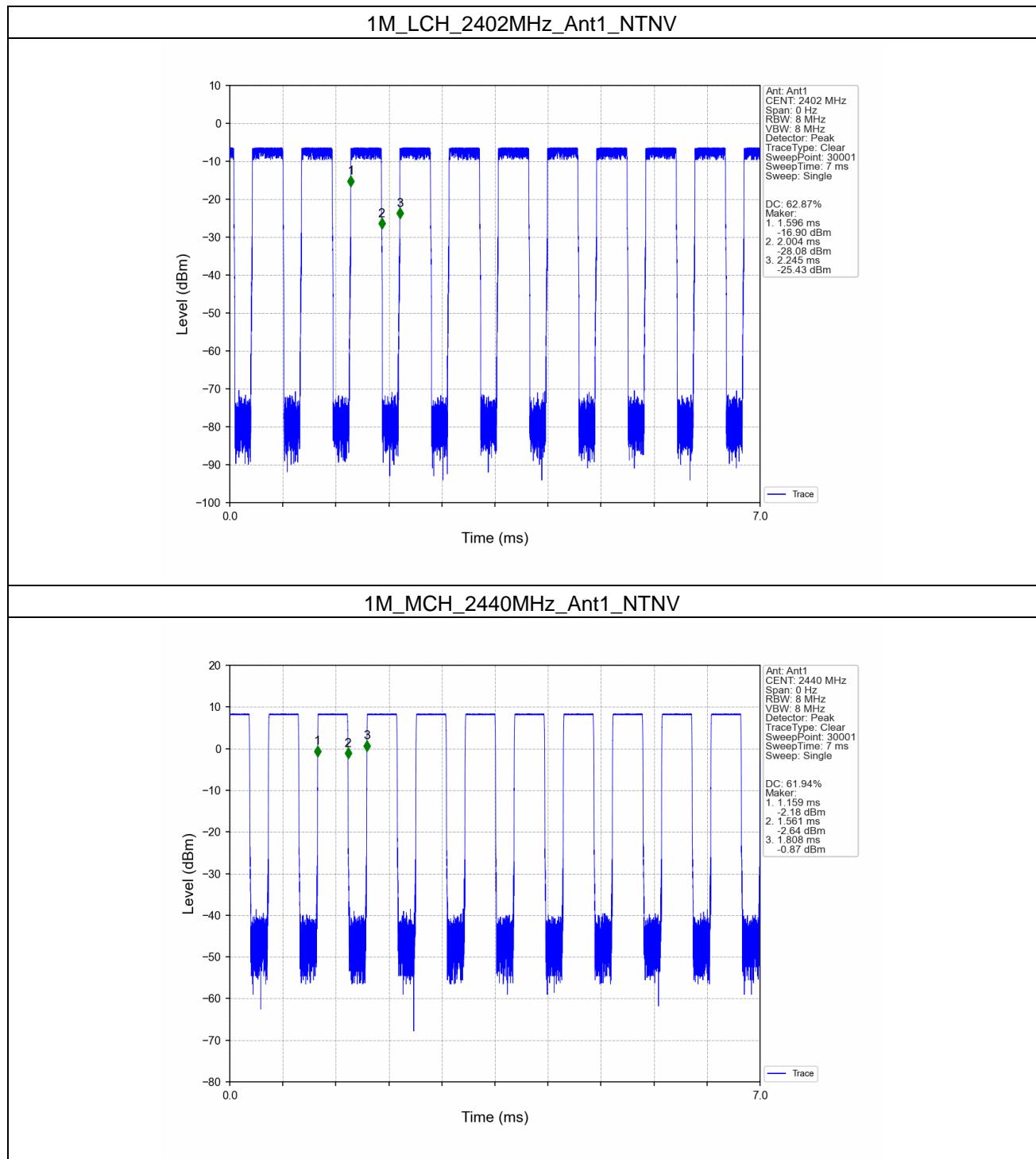
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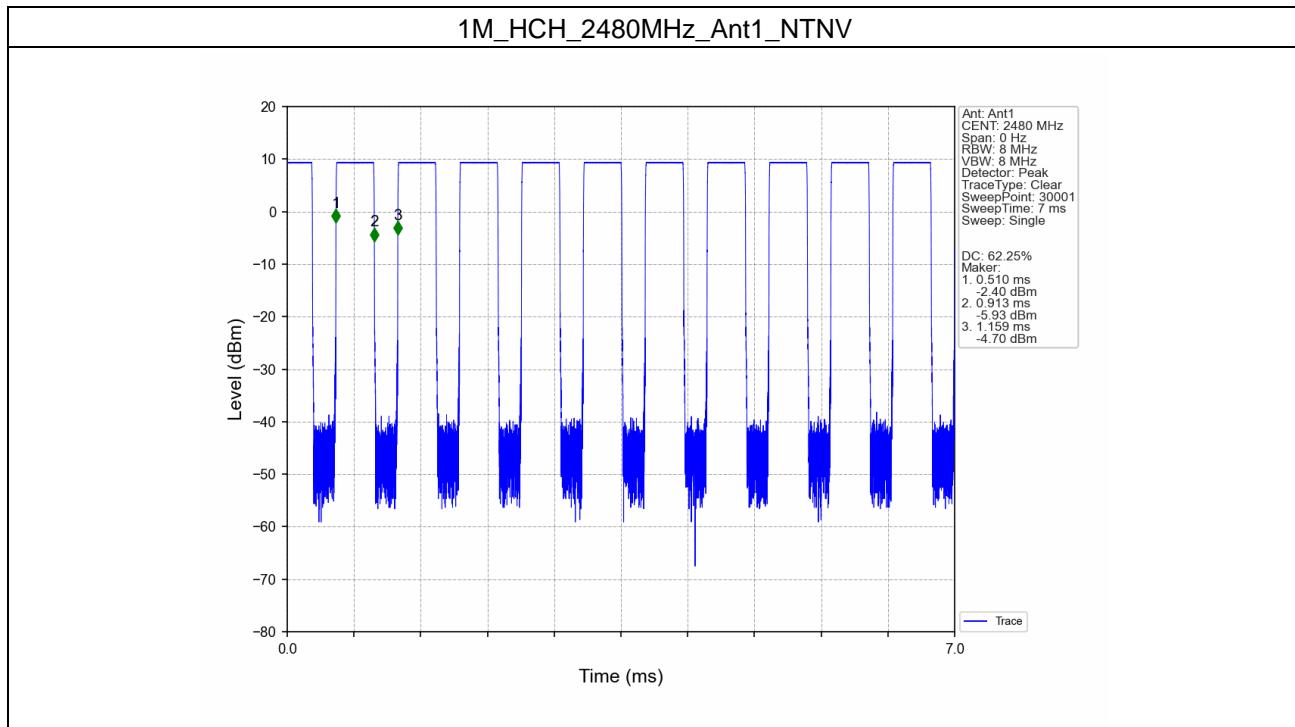
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1.2 Test Graph

1.2.1 Ant1





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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	1.030	/	Pass
		2440	1	1.030	/	Pass
		2480	1	1.035	/	Pass

2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.696	>=0.5	Pass
		2440	1	0.694	>=0.5	Pass
		2480	1	0.692	>=0.5	Pass



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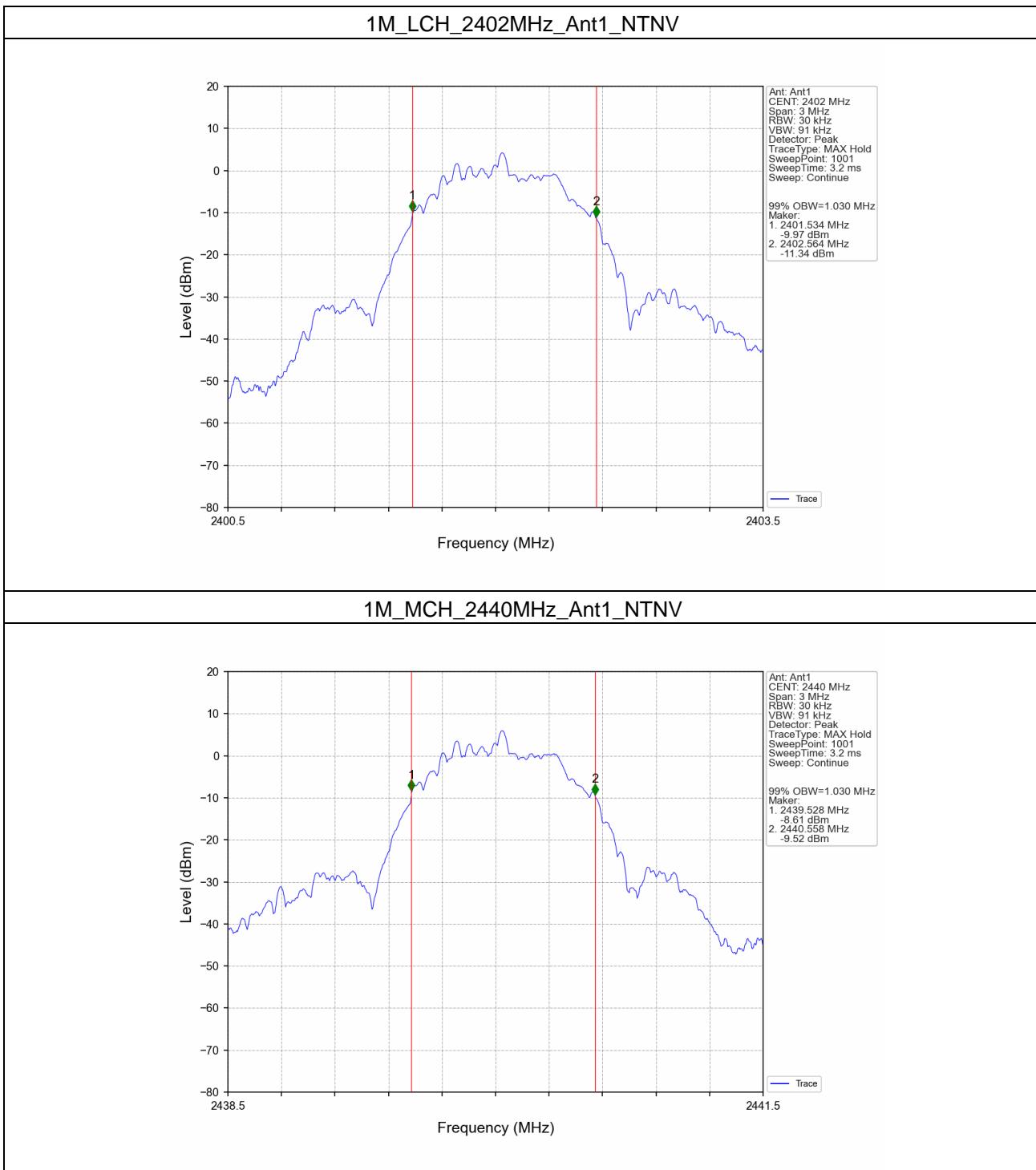
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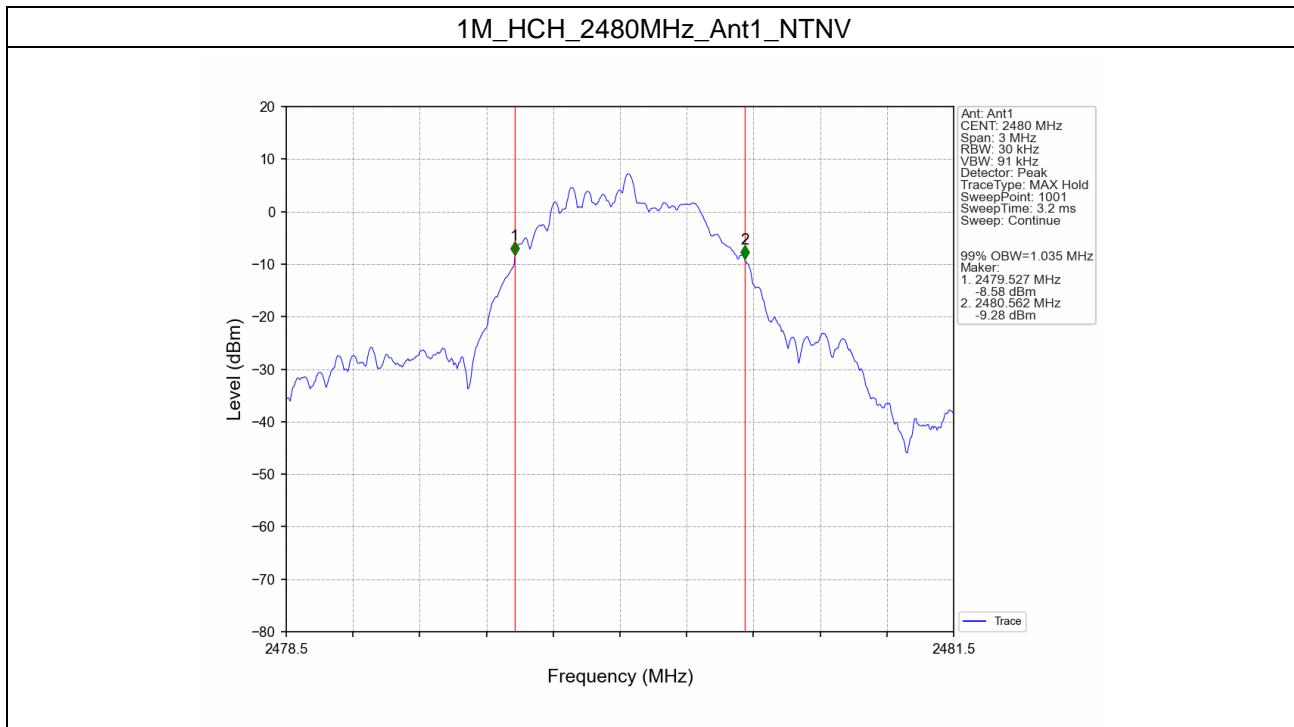
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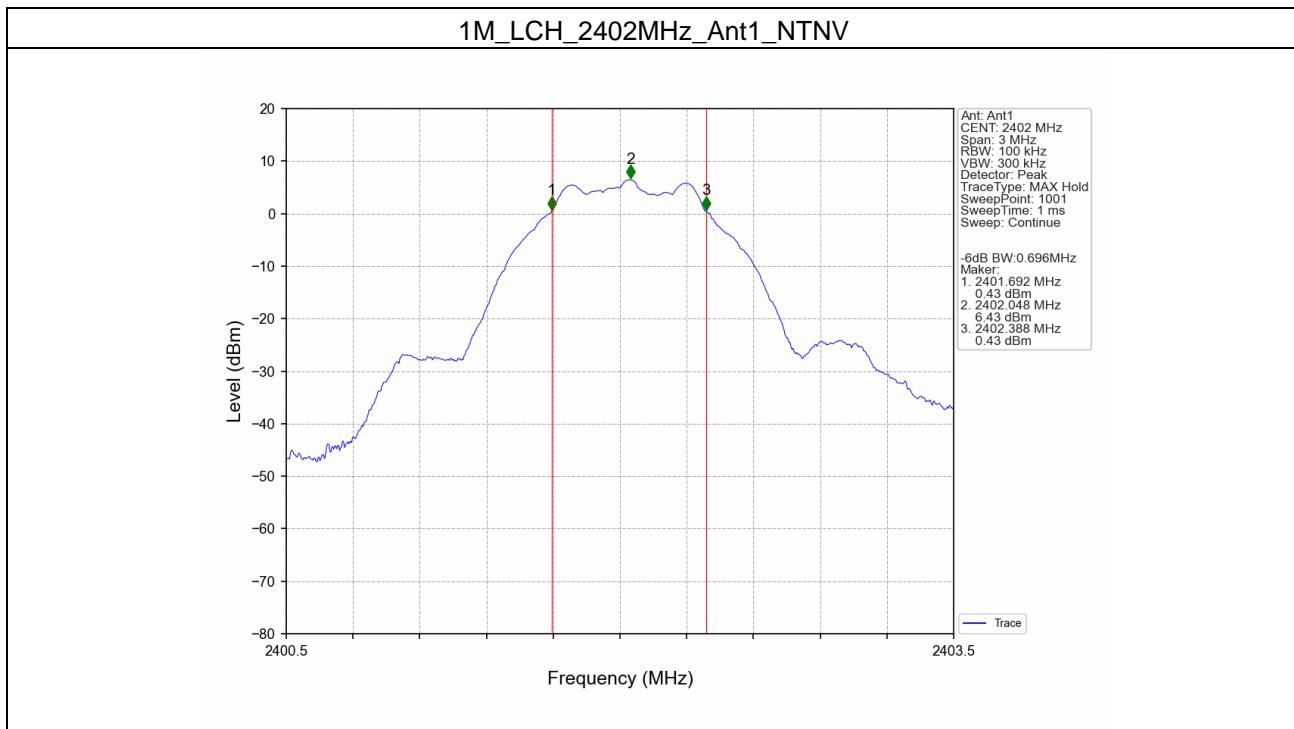
2.2 Test Graph

2.2.1 OBW





2.2.2 6dB BW



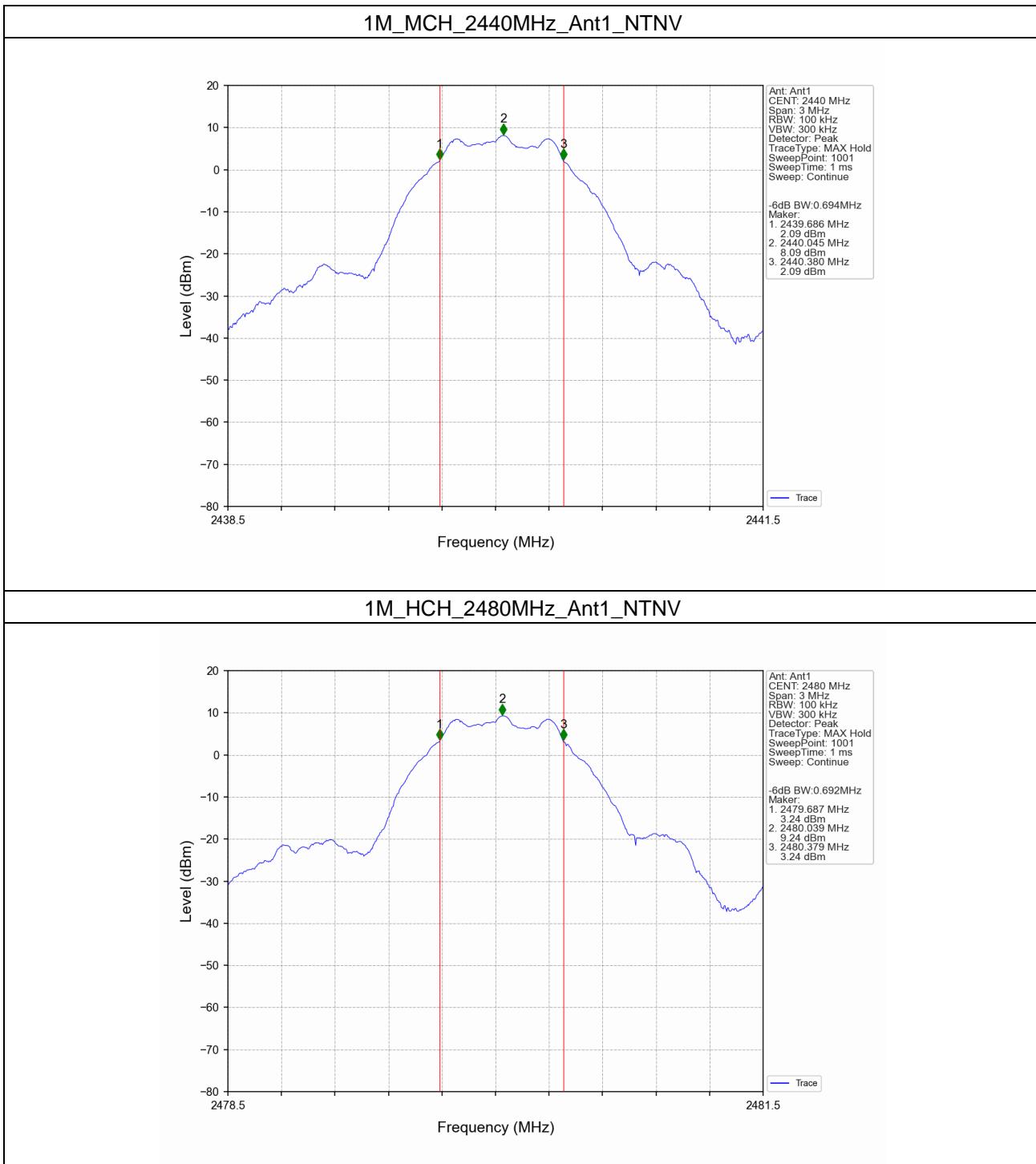
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3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	7.10	<=30	Pass
		2440	9.09	<=30	Pass
		2480	9.69	<=30	Pass

Note1: Antenna Gain: Ant1: 2.50dBi;

4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-7.77	<=8	Pass
		2440	-6.15	<=8	Pass
		2480	-5.61	<=8	Pass

Note1: Antenna Gain: Ant1: 2.50dBi;

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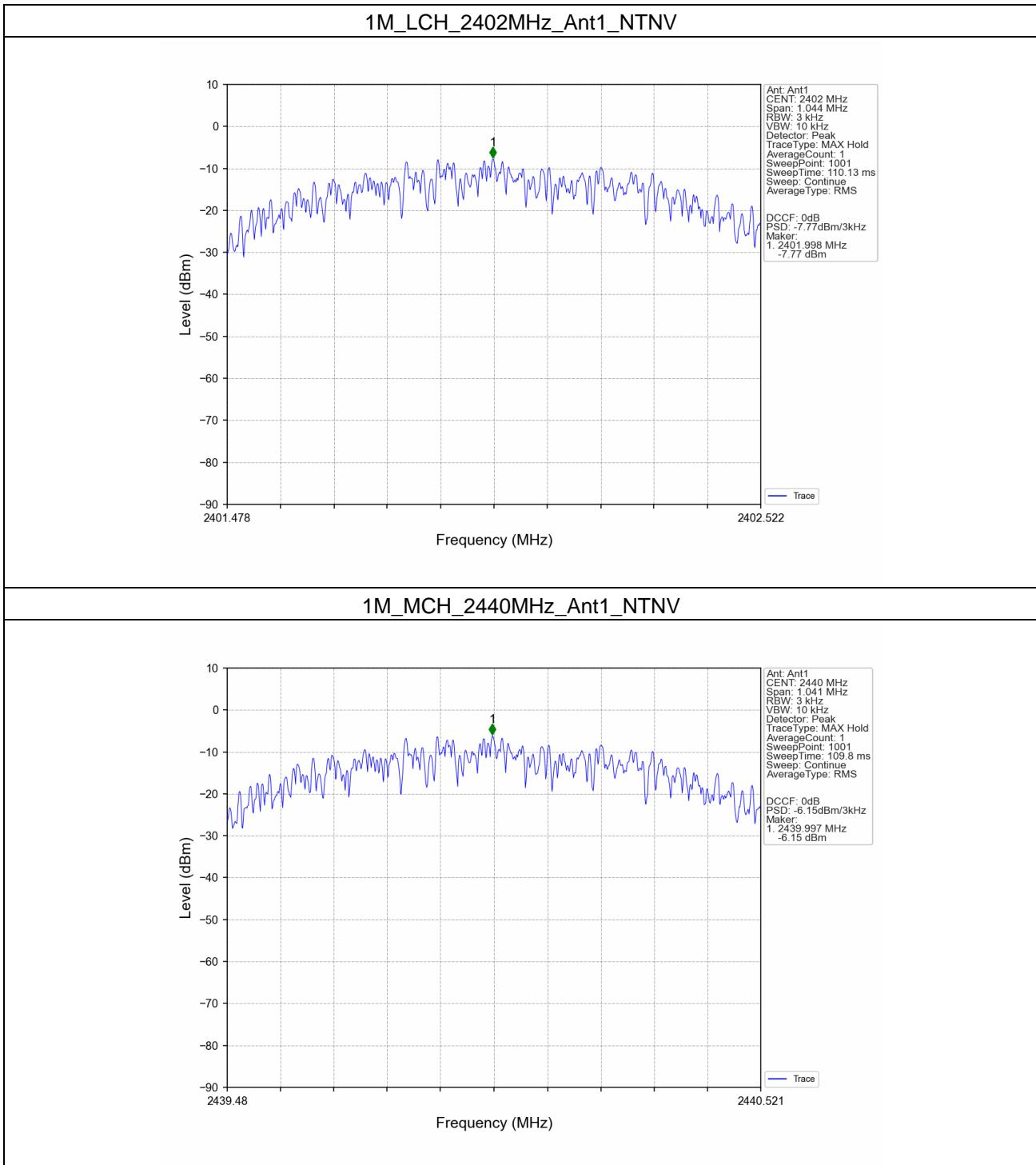
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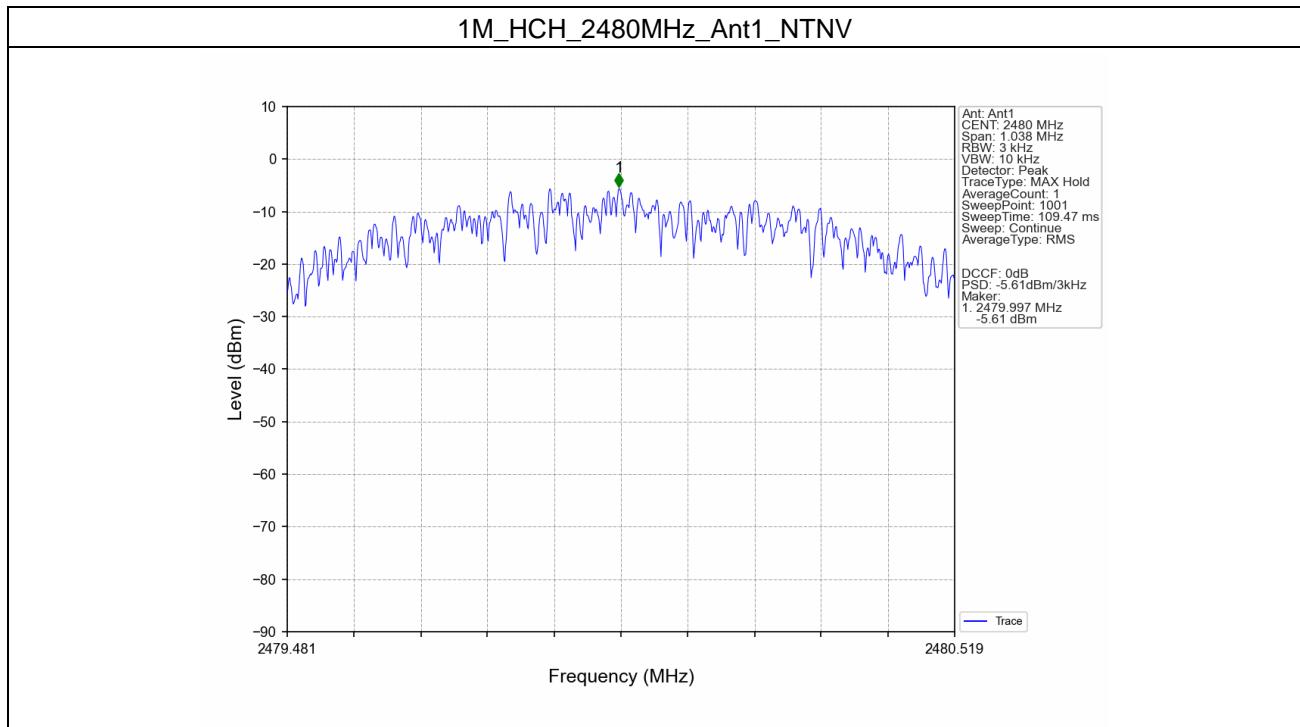
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4.2 Test Graph

4.2.1 PSD





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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	7.31
		2440	1	8.87
		2480	1	9.47

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	9.47	-10.53	Pass
		2440	1	9.47	-10.53	Pass
		2480	1	9.47	-10.53	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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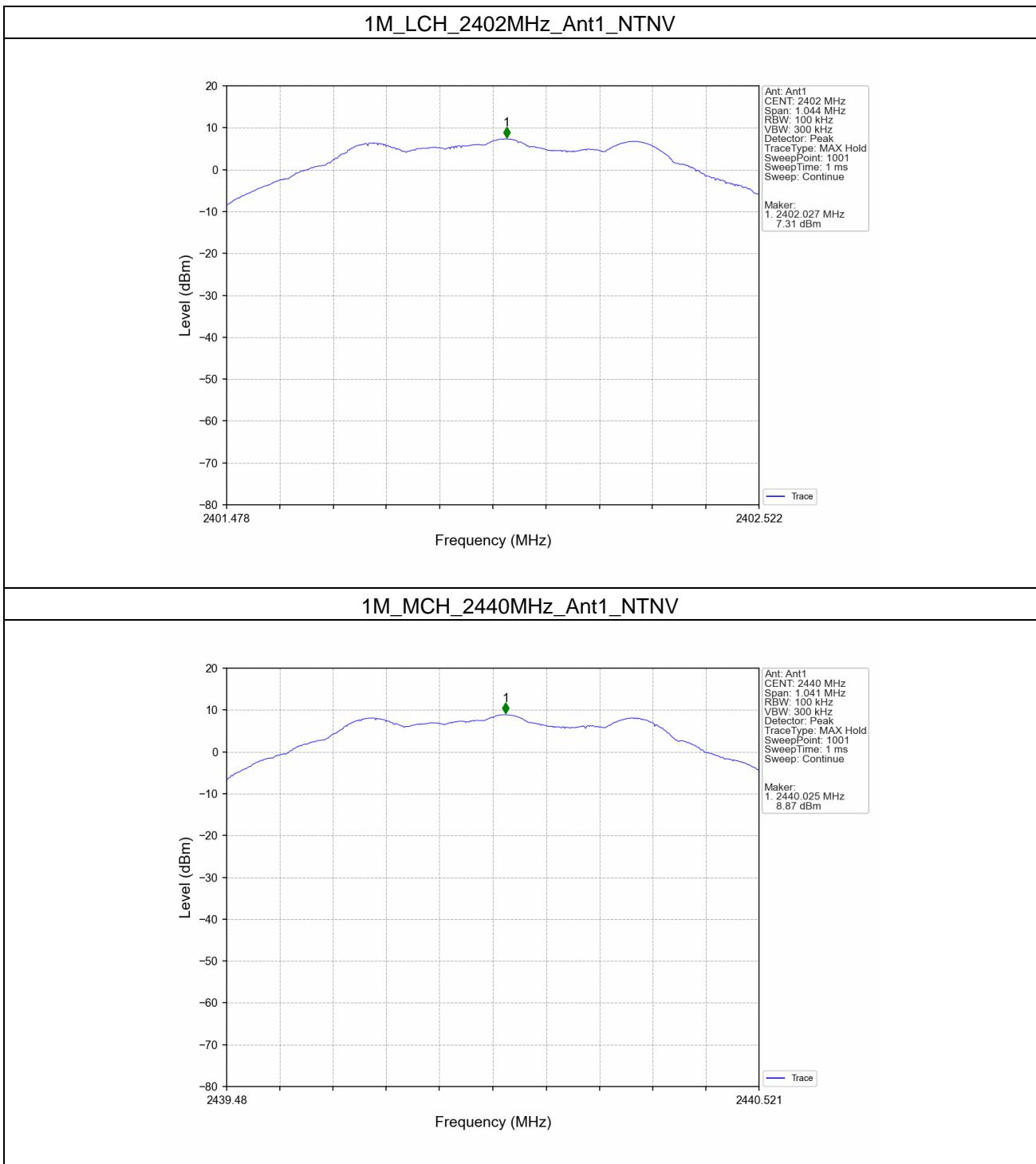
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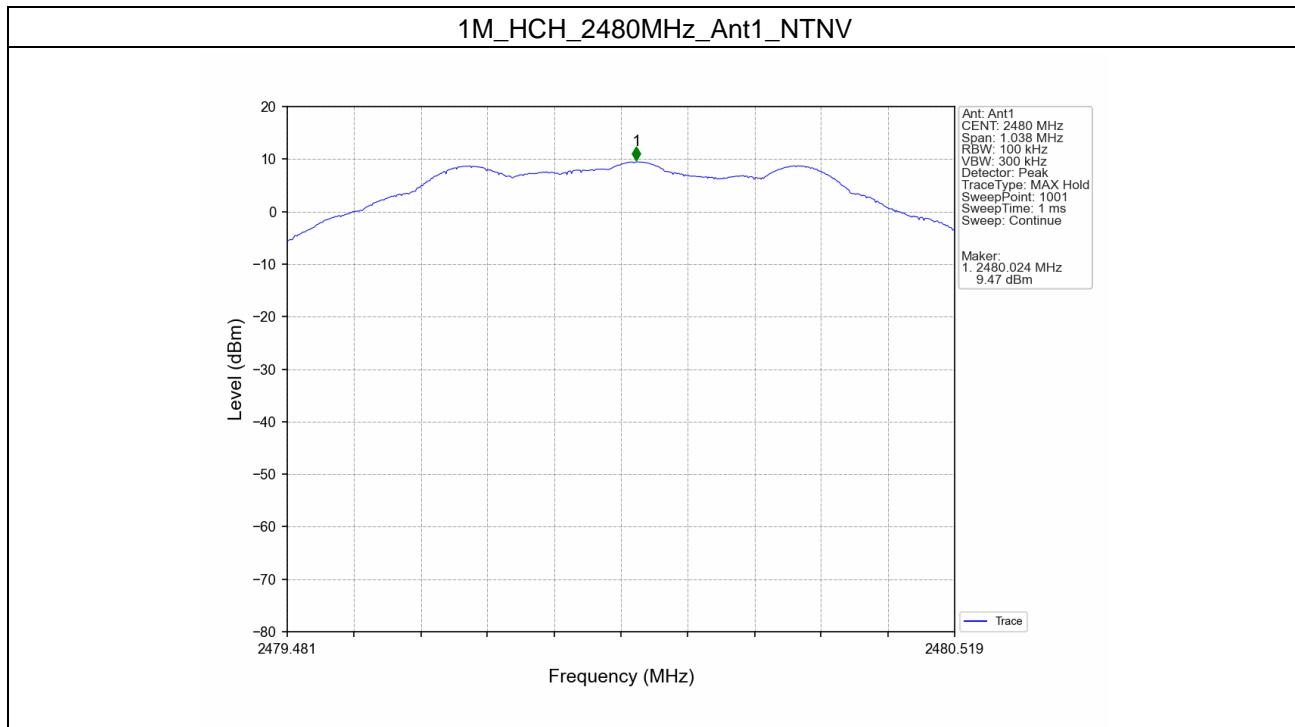
5.2 Test Graph

5.2.1 Ref

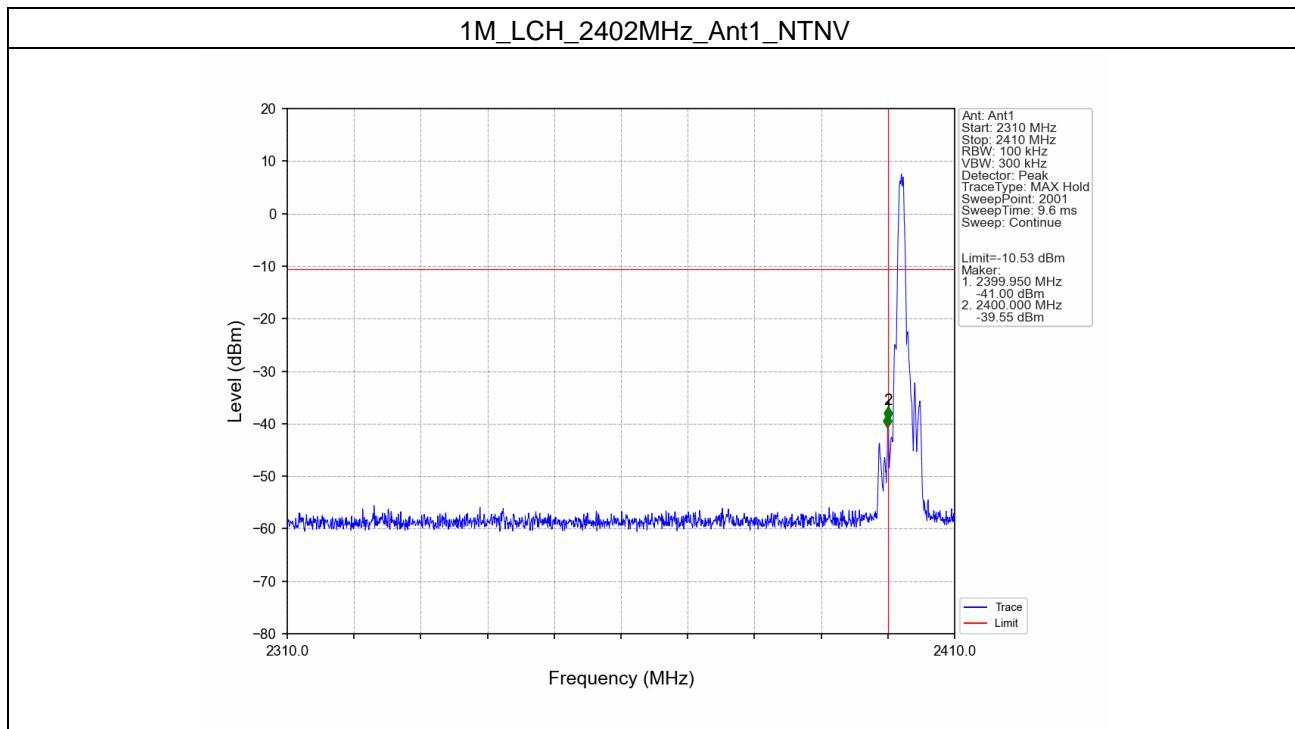


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5.2.2 CSE



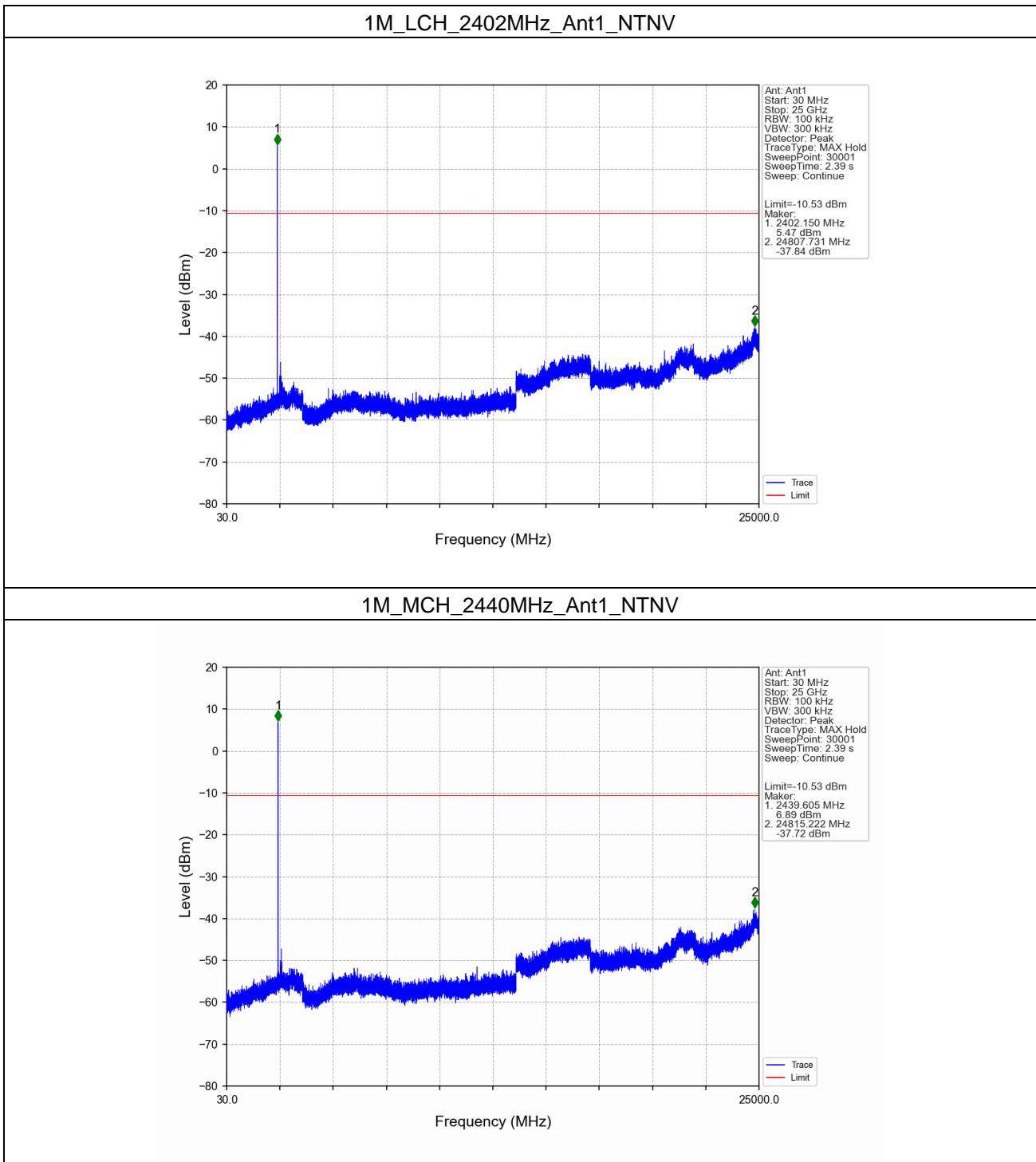
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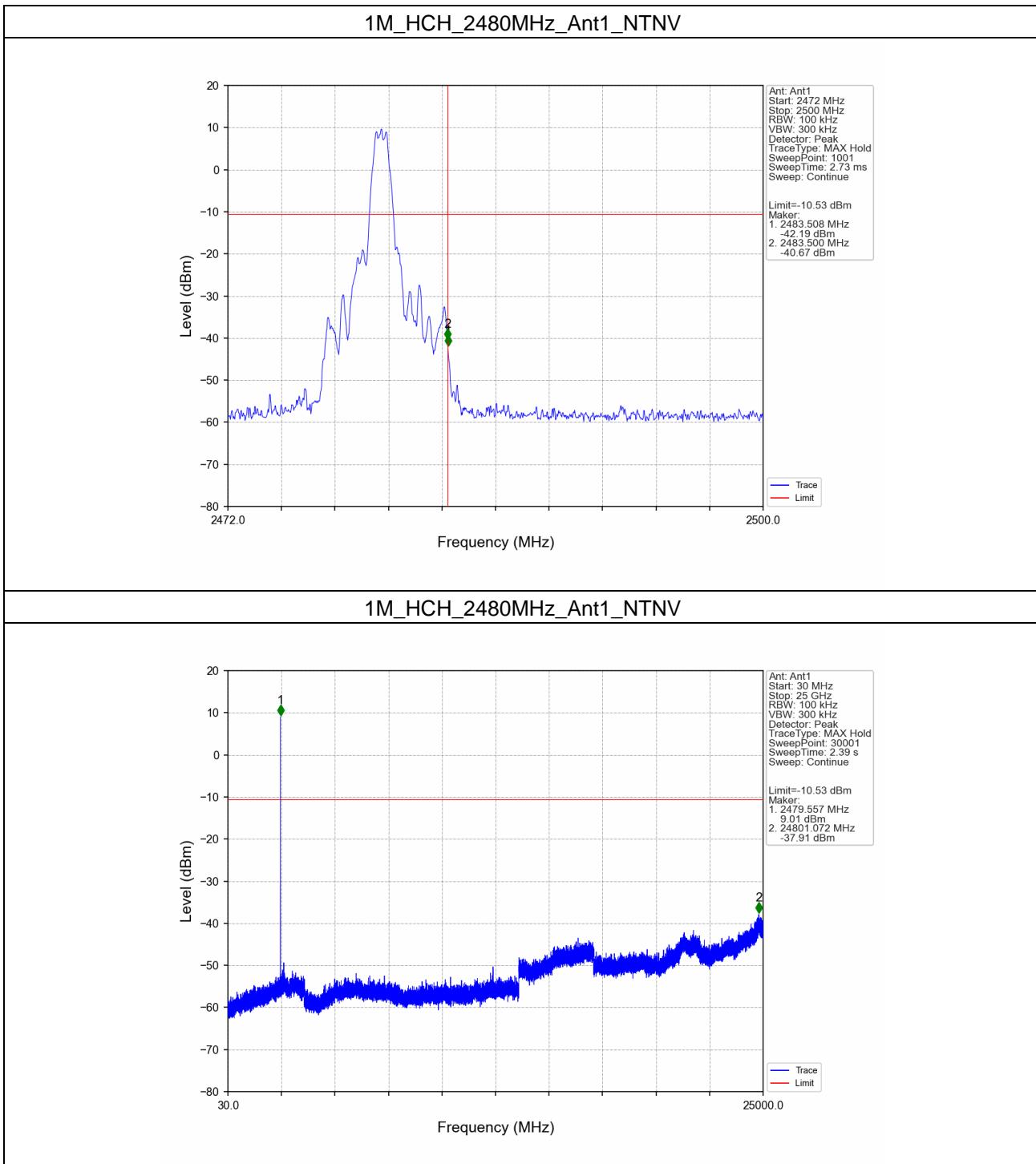
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