

Report No.: SHCR230200029002

Page: 1 of 82

TEST REPORT

Application No.: SHCR2302000290HS FCC ID: 2AWQY-HV2001 26929-HV2001 IC:

Applicant: Hyperice, Inc.

Address of Applicant: 525 Technology Drive, Suite 100, Irvine, California, 92618

Manufacturer: Zhejiang Honghei Technology Co. LTD

Address of Manufacturer: No.1 Juxian Road, Huzhen Town, Jinyun county, Zhejiang Province

Factory: Zhejiang Honghei Technology Co. LTD

Address of Factory: No.1 Juxian Road, Huzhen Town, Jinyun county, Zhejiang Province

Equipment Under Test (EUT):

EUT Name: Hypervolt 2 Model No.: HV2001 **Trade Mark: HYPERICE**

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

RSS-247 Issue 2, February 2017

RSS-Gen Issue 5 Amendment 2 (February 2021)

2023-02-17 Date of Receipt:

Date of Test: 2023-03-18 to 2023-03-23

2023-03-24 Date of Issue:

Pass* **Test Result:**

Parlam Zhan



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



Report No.: SHCR230200029002

Page: 2 of 82

	Revision Record			
Version	Description	Date	Remark	
00	Original	2023-03-24	1	

Authorized for issue by:		
	Bril Wu	
	Bill Wu/Project Engineer	_
	Parlam Zhan	
	Parlam Zhan/Reviewer	



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Report No.: SHCR230200029002

Page: 3 of 82

2 Test Summary

Radio Spectrum Technical Requirement				
Item	FCC Requirement	IC Requirement	Method	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.203 & 15.247(c)	RSS-Gen Clause 6.8	N/A	Customer Declaration

N/A: Not applicable

Radio Spectrum Mat	ter Part			
Item	FCC Requirement	IC Requirement	Method	Result
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247a(2)	RSS-247 Clause 5.2(a)	ANSI C63.10 (2013) Section 11.8.1	Pass
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247(b)(3)	RSS-247 Clause 5.4(d)	ANSI C63.10 (2013) Section 11.9.1	Pass
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247(e)	RSS-247 Clause 5.2(b)	ANSI C63.10 (2013) Section 11.10.2	Pass
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247(d)	RSS-247 Clause 5.5	ANSI C63.10 (2013) Section 11.13.3.2	Pass
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247(d)	RSS-247 Clause 5.5	ANSI C63.10 (2013) Section 11.11	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Section 6.10.5	Pass
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Section 6.4,6.5,6.6	Pass
99% Bandwidth	-	RSS-Gen Section 6.7	ANSI C63.10 Section 6.9.3	Pass



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SGS-CSTC Standards Technical Services

Report No.: SHCR230200029002

Page: 4 of 82

Contents

			Page
1	COVE	ER PAGE	1
2	TEST	SUMMARY	3
3	CON	TENTS	4
4	GENE	ERAL INFORMATION	e
•			
		DETAILS OF E.U.T.	
		DESCRIPTION OF SUPPORT UNITS	
		MEASUREMENT UNCERTAINTY & DECISION RULE	
		TEST LOCATION	
		TEST FACILITY	
		DEVIATION FROM STANDARDS	
		ABNORMALITIES FROM STANDARD CONDITIONS	
_			
5	EQUI	PMENT LIST	8
6	RADI	O SPECTRUM TECHNICAL REQUIREMENT	10
	6.1	Antenna Requirement	10
	6.1.1		
	6.1.2	•	
7	RADI	O SPECTRUM MATTER TEST RESULTS	11
-			
		CONDUCTED PEAK OUTPUT POWER	
	7.1.1 7.1.2		
	7.1.2	,	
	_	MINIMUM 6DB BANDWIDTH	
	7.2.1		
	7.2.2	·	
	7.2.3		
	7.2.4		
	7.3 I	POWER SPECTRUM DENSITY	
		E.U.T. Operation	
	7.3.2	Test Mode Description	13
	7.3.3	Test Setup Diagram	
	7.3.4		
		CONDUCTED BAND EDGES MEASUREMENT	
	7.4.1	E.U.T. Operation	
	7.4.2		
	7.4.3		
	7.4.4		
	7.5 (7.5.1	CONDUCTED SPURIOUS EMISSIONS	
	7.5.1 7.5.2	Test Mode Description	
	· · · · · · · · · · · · · · · · · · ·	Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Sei available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions . Attention is drawn to the indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information control the Company's findings at the time of its intervention poly within the limits of Client's instructions, if any.	rvice printed overleaf, limitation of liability, tained hereon reflects The Company's sole
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Report No.: SHCR230200029002

Page: 5 of 82

	7.5.3	Test Setup Diagram	17
	7.5.4	Measurement Procedure and Data	
7	7.6 R	ADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS	18
	7.6.1	E.U.T. Operation	18
	7.6.2	Test Mode Description	
	7.6.3	Test Setup Diagram	19
	7.6.4	Measurement Procedure and Data	19
7	7.7 R	ADIATED SPURIOUS EMISSIONS BELOW 1GHz	32
	7.7.1	E.U.T. Operation	32
	7.7.2	Test Mode Description	
	7.7.3	Test Setup Diagram	33
	7.7.4	Measurement Procedure and Data	
7	7.8 R	ADIATED SPURIOUS EMISSIONS ABOVE 1GHZ	36
	7.8.1	E.U.T. Operation	36
	7.8.2	Test Mode Description	36
	7.8.3	Test Setup Diagram	36
	7.8.4	Measurement Procedure and Data	
7	7.9 9	9% Bandwidth	50
	7.9.1	E.U.T. Operation	50
	7.9.2	Test Mode Description	50
	7.9.3	Test Setup Diagram	50
	7.9.4	Measurement Procedure and Data	50
3	TEST S	SETUP PHOTO	51
	0. \		
)	EUT C	ONSTRUCTIONAL DETAILS (EUT PHOTOS)	51
		,	
10	APPEN	NDIX	51



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Report No.: SHCR230200029002

Page: 6 of 82

4 General Information

4.1 Details of E.U.T.

T.I Details of L.O.I.		
Power supply:	DC 14.4V 2.5Ah Rechargeable battery	
	Charging adapter:	
	Model:MX24Z2-1801000	
	Input:100-240V~50-60Hz	
	Output:18V 1A	
Test voltage:	DC 14.4V	
Operation Frequency:	2402MHz to 2480MHz	
Bluetooth Version:	5.0 LE	
Data Rate:	Data Rate: 125kb/s, 500kb/s, 1Mb/s, 2Mb/s	
Modulation Type:	GFSK	
Number of Channels:	40	
Channel Spacing:	2MHz	
Antenna Type:	PCB Antenna	
Antenna Gain: -9.96 dBi (Provided by manufacturer)		
S/N:	DB18EC3441C4	
Firmware Version:	1.15.0	

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	LENOVO L460		-
Serial port adapter plate	-	Test Plate 3	-

4.3 Power level setting using in test

Channel	Power setting
0	3
19	3
39	3



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Report No.: SHCR230200029002

Page: 7 of 82

4.4 Measurement Uncertainty & Decision Rule

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4 x 10 ⁻⁸
2	Timeout	2s
3	Duty cycle	0.4%
4	Occupied Bandwidth	3%
5	RF conducted power	0.6dB
6	RF power density	2.9dB
7	Conducted Spurious emissions	0.75dB
0	DE Dadieted access	5.2dB (Below 1GHz)
8	RF Radiated power	5.9dB (Above 1GHz)
		4.2dB (Below 30MHz)
0	Dadiated Courieus agriculas test	4.5dB (30MHz-1GHz)
9	Radiated Spurious emission test	5.1dB (1GHz-6GHz)
		5.4dB (6GHz-18GHz)
10	Temperature test	1°C
11	Humidity test	3%
12	Supply voltages	1.5%
13	Time	3%

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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Report No.: SHCR230200029002

Page: 8 of 82

4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab 588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc.) is provided by the applicant. (if applicable).

2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (if applicable).

4.6 Test Facility

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

A2LA (Certificate No. 6332.01)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

• FCC (Designation Number: CN1301)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

• ISED (CAB Identifier: CN0020)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 8617A

• VCCI (Member No.: 3061)

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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Report No.: SHCR230200029002

Page: 9 of 82

5 Equipment List

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RF Conducted Test					
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2022-12-20	2023-12-19
Spectrum Analyzer	Keysight	N9020B	SHEM241-1	2022-12-20	2023-12-19
Spectrum Analyzer	Agilent	N9020A	SHEM181-1	2022-08-02	2023-08-01
Signal Generator	R&S	SMR20	SHEM006-1	2022-08-02	2023-08-01
Signal Generator	Agilent	N5182A	SHEM182-1	2022-08-02	2023-08-01
Communication Tester	R&S	CMW270	SHEM183-1	2022-07-25	2023-07-24
Communication Tester	R&S	CMW500	SHEM268-1	2022-07-25	2023-07-24
Power Sensor	Keysight	U2021XA * 4	SHEM184-1	2022-08-02	2023-08-01
Splitter	Anritsu	MA1612A	SHEM185-1	/	/
Coupler	e-meca	803-S-1	SHEM186-1	/	/
High-low Temp Cabinet	Suzhou Zhihe	TL-40	SHEM087-1	2022-11-08	2024-11-07
AC Power Stabilizer	APC	KDF-31020T-V0-F0	SHEM216-1	2022-12-20	2023-12-19
DC Power Supply	MCH	MCH-303A	SHEM210-1	2022-12-20	2023-12-19
Conducted test Cable	/	RF01~RF04	/	2022-12-20	2023-12-19
Switcher	Tonscend	JS0806	SHEM184-1	2022-08-02	2023-08-01
Test software	Tonscend	JS Tonscend BT/WIFI System	Version: 2.6	/	/
Coaxial Cable	TST		SHEM263-1	2022-08-02	2023-08-01
Test software	TST	TST PASS	Version: 2.0	/	/
RF Radiated Test					
EMI test Receiver	R&S	ESU40	SHEM051-1	2022-12-20	2023-12-19
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2022-12-20	2023-12-19
Communication Tester	R&S	CMW500	SHEM268-1	2022-07-25	2023-07-24
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2022-12-20	2023-12-19
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2021-09-11	2023-09-10
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM202-1	2021-05-07	2023-05-06
Horn Antenna (1-18GHz)	Schwarzbeck	HF906	SHEM009-1	2022/8/11	2024-08-10
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2021-09-18	2023-09-17
Horn Antenna (14-40GHz)	Schwarzbeck	BBHA 9170	SHEM049-1	2021-09-18	2023-09-17
Pre-Amplifier	HP	8447D	SHEM236-1	2022-08-02	2023-08-01
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2022-12-20	2023-12-19
Band Filter	LORCH	9BRX-875/X150	SHEM156-1	/	/
Band Filter	LORCH	13BRX-1950/X500	SHEM083-2	/	/
Band Filter	LORCH	5BRX-2400/X200	SHEM155-1	/	/
Band Filter	LORCH	5BRX-5500/X1000	SHEM157-2	/	/
High pass Filter	Wainwright	WHK3.0/18G	SHEM157-1	/	/
High pass Filter	Wainwright	WHKS1700	SHEM157-3	/	/
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2020-05-25	2023-05-24
RE test Cable	/	RE01, RE02, RE06	/	2023-01-07	2024-01-06
Test software	ESE	E3	Version: 6.111221a	/	/



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Report No.: SHCR230200029002

Page: 10 of 82

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

Standard 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.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is PCB antenna and no consideration of replacement. The best case gain of the antenna is -9.96 dBi.

Antenna location: Refer to internal photo.



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Report No.: SHCR230200029002

Page: 11 of 82

7 Radio Spectrum Matter Test Results

7.1 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:

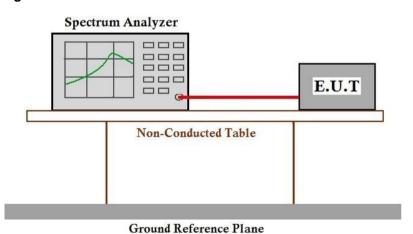
Frequency range(MHz) Output power of the intentional radiator(watt)	
	1 for ≥50 hopping channels
902-928	0.25 for 25≤ hopping channels <50
	1 for digital modulation
	1 for ≥75 non-overlapping hopping channels
2400-2483.5	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850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

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 20.1 °C Humidity: 70.9 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Setup Diagram



7.1.3 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details



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Report No.: SHCR230200029002

Page: 12 of 82

7.2 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

7.2.1 E.U.T. Operation

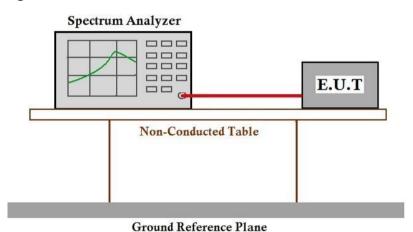
Operating Environment:

Temperature: 20.2 °C Humidity: 70.8 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Tiziz Tool Mode Beenplien										
Pre-scan / Final test	Mode Code	Description								
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.								
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.								

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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Report No.: SHCR230200029002

Page: 13 of 82

7.3 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

7.3.1 E.U.T. Operation

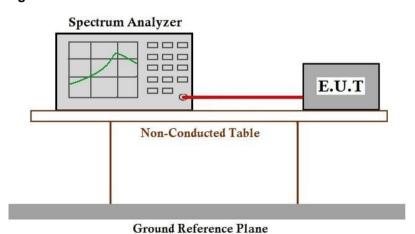
Operating Environment:

Temperature: 20.2 °C Humidity: 70.4 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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Report No.: SHCR230200029002

Page: 14 of 82

7.4 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).

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 20.1 °C Humidity: 70.1 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

7.4.2 Test mode besorption										
Pre-scan / Final test	Mode Code	Description								
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.								
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.								



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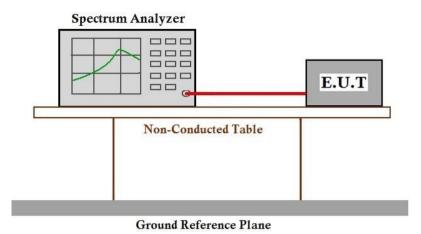
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Page: 15 of 82

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

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Report No.: SHCR230200029002

Page: 16 of 82

7.5 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).

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 20.1 °C Humidity: 69.8 % RH Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

7.0.2 Test mode bescription										
Pre-scan / Final test	Mode Code	Description								
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.								
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.								



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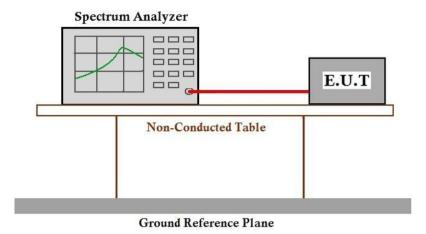
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Report No.: SHCR230200029002

Page: 17 of 82

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

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Report No.: SHCR230200029002

Page: 18 of 82

7.6 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

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.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 20.1 °C Humidity: 69.6 % RH Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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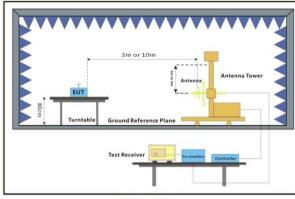
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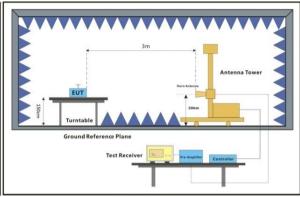


Report No.: SHCR230200029002

Page: 19 of 82

7.6.3 Test Setup Diagram





30MHz-1GHz

Above 1GHz

7.6.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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



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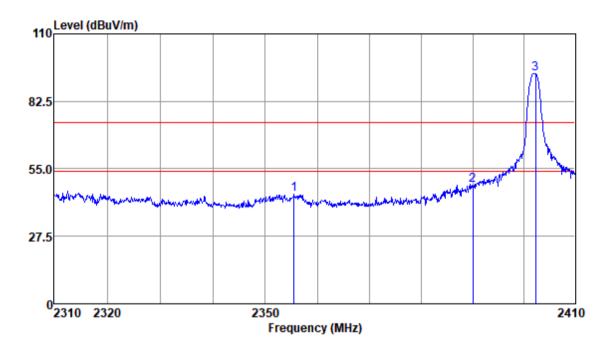
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Report No.: SHCR230200029002

Page: 20 of 82

Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Antenna Polarity : HORIZONTAL

_					Emission			
Freq	Level	Factor	Loss	Factor	Level			
MHz	dBuv	dB/m	dB	dB	dBuv/m			
2355.47	48.01	28.61	3.14	35.15	44.61	74.00	-29.39	Peak
2390.00	51.70	28.80	3.13	35.18	48.45	74.00	-25.55	Peak
2402.25	97.15	28.85	3.13	35.19	93.94	74.00	19.94	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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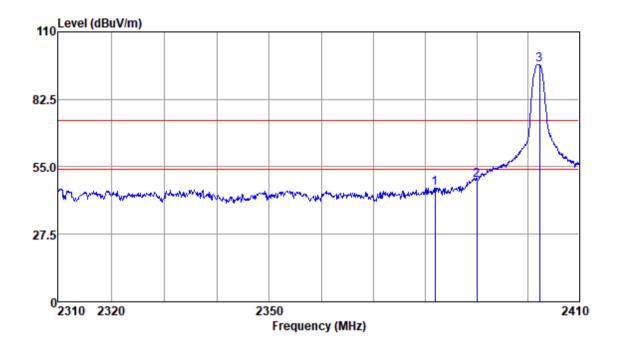
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Report No.: SHCR230200029002

Page: 21 of 82

Test Mode: 00; Polarity: Vertical; Modulation: GFSK; Channel:Low



Antenna Polarity : VERTICAL

					Emission			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2381.87	49.72	28.76	3.14	35.17	46.45	74.00	-27.55	Peak
2390.00	52.63	28.80	3.13	35.18	49.38	74.00	-24.62	Peak
2402.25	99.87	28.85	3.13	35.19	96.66	74.00	22.66	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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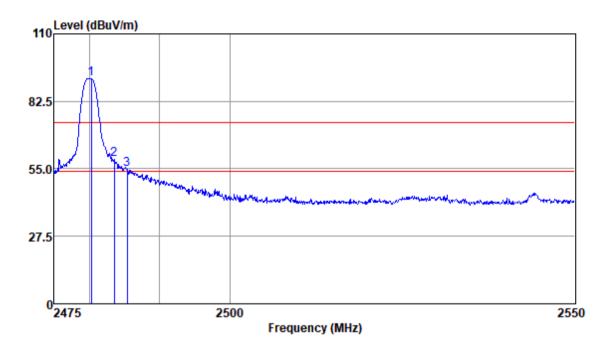
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Report No.: SHCR230200029002

Page: 22 of 82

Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: High



Antenna Polarity : HORIZONTAL

	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2480.25	94.60	29.08	3.20	35.25	91.63	74.00	17.63	Peak
2483.50	61.73	29.09	3.20	35.26	58.76	74.00	-15.24	Peak
2485.37	57.79	29.09	3.20	35.26	54.82	74.00	-19.18	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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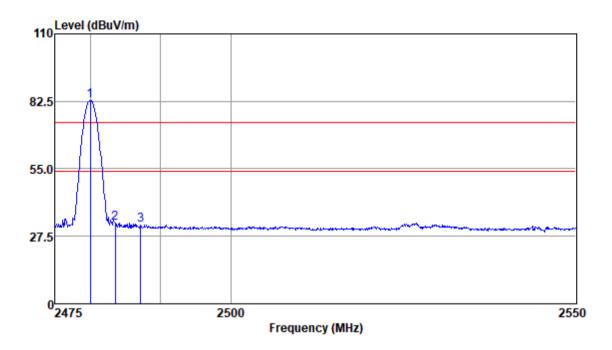
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Report No.: SHCR230200029002

Page: 23 of 82

Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: High



Antenna Polarity : HORIZONTAL

-					Emission			ь .
Freq	revel	Factor	LOSS	Factor	Level	Line	Limit	Kemark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2479.96	85.92	29.08	3.20	35.25	82.95	54.00	28.95	Average
2483.50	35.70	29.09	3.20	35.26	32.73	54.00	-21.27	Average
2487.15	35.21	29.09	3.20	35.26	32.24	54.00	-21.76	Average

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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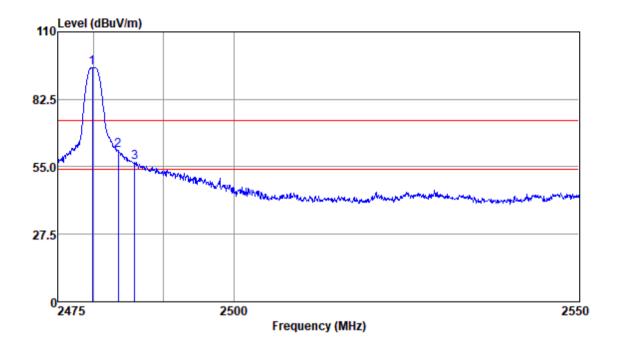
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Report No.: SHCR230200029002

Page: 24 of 82

Test Mode: 00; Polarity: Vertical; Modulation: GFSK; Channel: High



Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2479.81	98.30	29.08	3.20	35.25	95.33	74.00	21.33	Peak
2483.50	64.52	29.09	3.20	35.26	61.55	74.00	-12.45	Peak
2485.89	59.88	29.09	3.20	35.26	56.91	74.00	-17.09	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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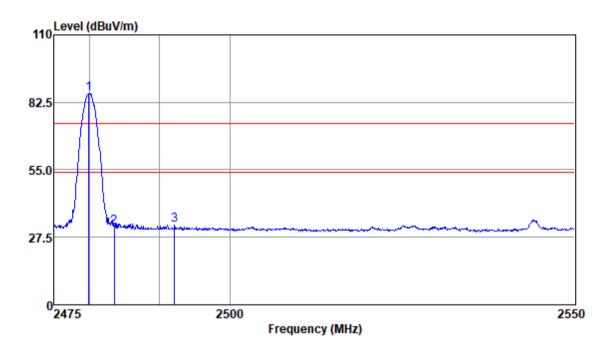
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Report No.: SHCR230200029002

Page: 25 of 82

Test Mode: 00; Polarity: Vertical; Modulation: GFSK; Channel: High



Antenna Polarity : VERTICAL

中国・上海・松江区金都西路588号

	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2479.88	89.17	29.08	3.20	35.25	86.20	54.00	32.20	Average
2483.50	34.65	29.09	3.20	35.26	31.68	54.00	-22.32	Average
2492.13	35.59	29.10	3.23	35.26	32.66	54.00	-21.34	Average

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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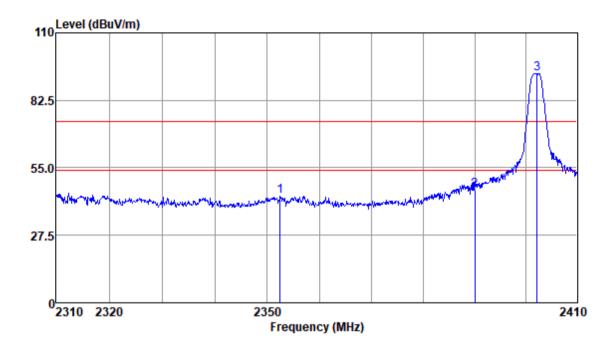
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Report No.: SHCR230200029002

Page: 26 of 82

Test Mode: 01; Polarity: Horizontal; Modulation: GFSK; Channel:Low



Antenna Polarity : HORIZONTAL

中国・上海・松江区金都西路588号

					Emission			
Freq	Level	Factor	Loss	Factor	Level			
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2352.48	46.84	28.61	3.14	35.15	43.44	74.00	-30.56	Peak
2390.00	49.30	28.80	3.13	35.18	46.05	74.00	-27.95	Peak
2402.15	96.76	28.85	3.13	35.19	93.55	74.00	19.55	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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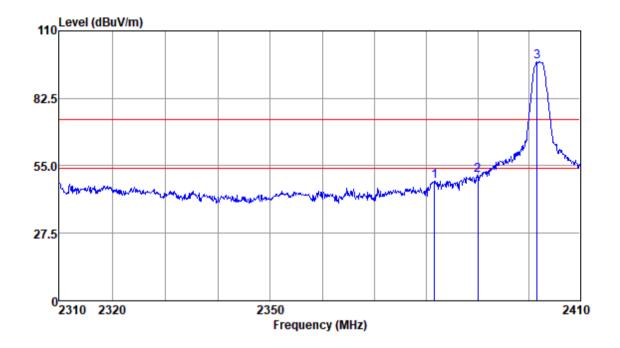
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Report No.: SHCR230200029002

Page: 27 of 82

Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:Low



Antenna Polarity : VERTICAL

	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2381.57	52.01	28.76	3.14	35.17	48.74	74.00	-25.26	Peak
2390.00	54.20	28.80	3.13	35.18	50.95	74.00	-23.05	Peak
2401.54	100.53	28.85	3.13	35.19	97.32	74.00	23.32	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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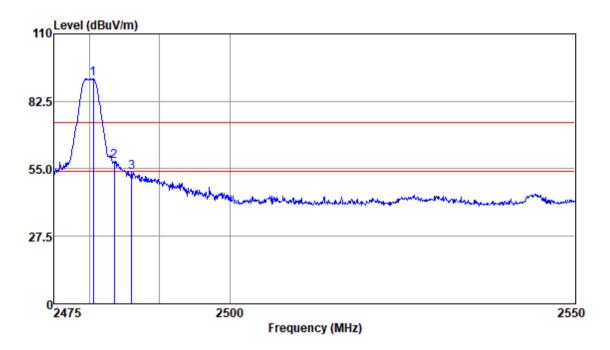
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Report No.: SHCR230200029002

Page: 28 of 82

Test Mode: 01; Polarity: Horizontal; Modulation: GFSK; Channel: High



Antenna Polarity : HORIZONTAL

中国・上海・松江区金都西路588号

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2480.55	94.58	29.08	3.20	35.25	91.61	74.00	17.61	Peak
2483.50	60.85	29.09	3.20	35.26	57.88	74.00	-16.12	Peak
2486.03	56.73	29.09	3.20	35.26	53.76	74.00	-20.24	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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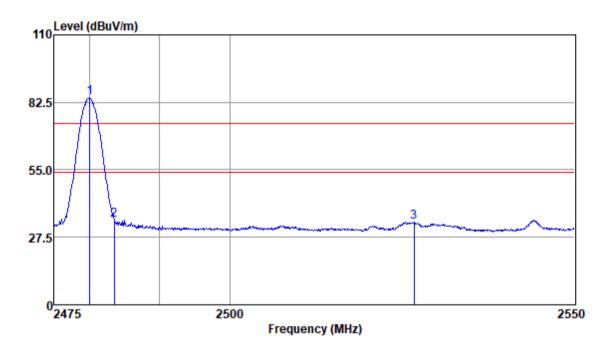
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Report No.: SHCR230200029002

Page: 29 of 82

Test Mode: 01; Polarity: Horizontal; Modulation: GFSK; Channel: High



Antenna Polarity : HORIZONTAL

	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2480.03	87.20	29.08	3.20	35.25	84.23	54.00	30.23	Average
2483.50	37.63	29.09	3.20	35.26	34.66	54.00	-19.34	Average
2526.59	36.77	29.13	3.30	35.31	33.89	54.00	-20.11	Average

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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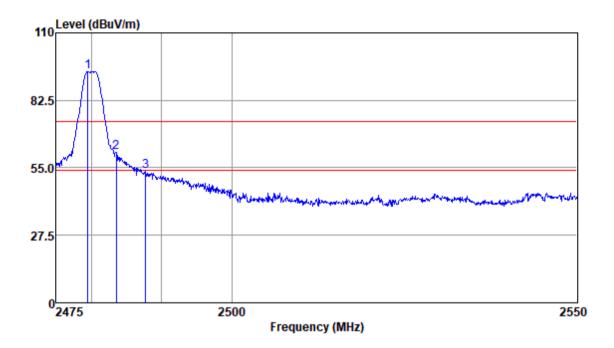
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Report No.: SHCR230200029002

Page: 30 of 82

Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:High



Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2479.51	97.17	29.08	3.20	35.25	94.20	74.00	20.20	Peak
2483.50	64.06	29.09	3.20	35.26	61.09	74.00	-12.91	Peak
2487.74	56.66	29.09	3.23	35.26	53.72	74.00	-20.28	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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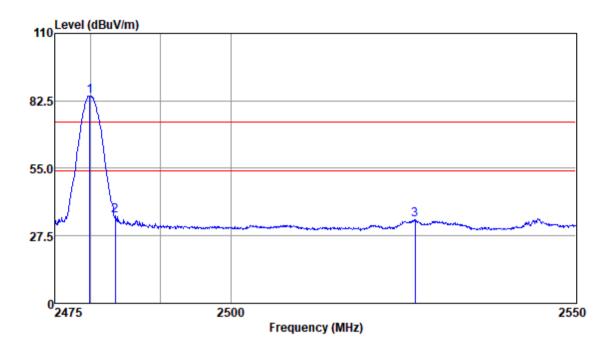
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Report No.: SHCR230200029002

Page: 31 of 82

Test Mode: 01; Polarity: Vertical; Modulation: GFSK; Channel: High



Antenna Polarity : VERTICAL

中国・上海・松江区金都西路588号

	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2479.88	87.52	29.08	3.20	35.25	84.55	54.00	30.55	Average
2483.50	38.59	29.09	3.20	35.26	35.62	54.00	-18.38	Average
2526.59	36.92	29.13	3.30	35.31	34.04	54.00	-19.96	Average

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Report No.: SHCR230200029002

Page: 32 of 82

7.7 Radiated Spurious Emissions Below 1GHz

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

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

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

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 20.2 °C Humidity: 69.4 % RH Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

71712 100111	7.7.2 Test mode bescription									
Pre-scan / Final test	Mode Code	Description								
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.								
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.								



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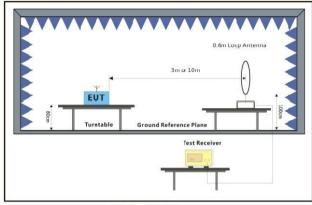
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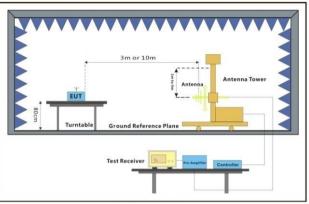


Report No.: SHCR230200029002

Page: 33 of 82

7.7.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz

7.7.4 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.
- 3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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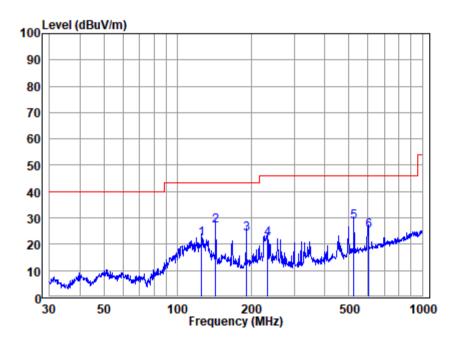
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Report No.: SHCR230200029002

Page: 34 of 82

Test Mode: 00; Polarity: Horizontal



Antenna Polarity : Horizontal EUT/Project :0290HS Test mode :00

Fi	req					Emission Level			Remark
1	ИНZ	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2 14 3 19 4 23 5 52	3.33 1.07 3.35 5.40	44.47 41.31 38.02	10.34 10.84 18.23	2.64 3.18 5.32	33.34 33.17 33.00	24.11 22.16 28.57	43.50 43.50 46.00 46.00	-21.62 -16.56 -19.39 -23.84 -17.43	QP QP QP QP
6 603	1.43	32.67	19.91	5.68	33.00	25.26	46.00	-20.74	QP .

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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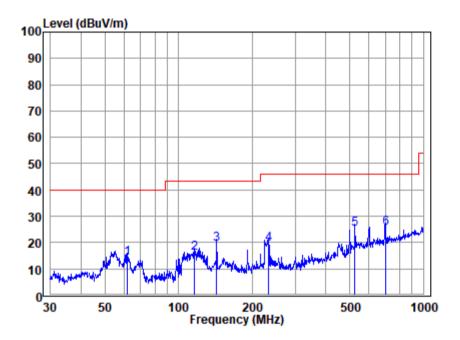
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Report No.: SHCR230200029002

35 of 82 Page:

Test Mode: 00; Polarity: Vertical



Antenna Polarity : Vertical EUT/Project :0290HS Test mode :00

	Freq					Emission Level			Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	61.78	33.23	13.06	1.24	33.60	13.93	40.00	-26.07	QP
2	116.54	36.71	10.78	2.04	33.57	15.96	43.50	-27.54	QP
3	143.33	37.34	13.08	2.47	33.51	19.38	43.50	-24.12	QP
4	233.35	38.44	10.84	3.18	33.17	19.29	46.00	-26.71	QP
5	526.40	34.38	18.23	5.32	33.00	24.93	46.00	-21.07	OP
6	701.76	31.11	20.94	6.13	32.80	25.38	46.00	-20.62	QP
									-

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Report No.: SHCR230200029002

Page: 36 of 82

7.8 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

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

7.8.1 E.U.T. Operation

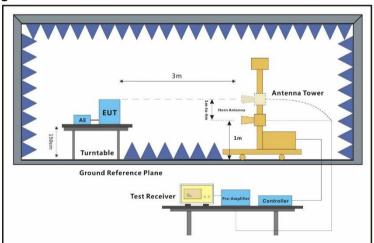
Operating Environment:

Temperature: 20.1 °C Humidity: 69.5 % RH Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.8.3 Test Setup Diagram





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Report No.: SHCR230200029002

Page: 37 of 82

7.8.4 Measurement Procedure and Data

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

Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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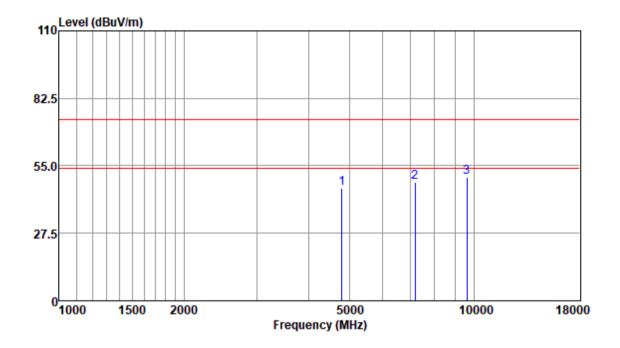
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Report No.: SHCR230200029002

Page: 38 of 82

Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel:Low



Antenna Polarity : HORIZONTAL

					Emission			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4804.00	44.63	33.57	4.53	36.79	45.94	74.00	-28.06	Peak
7206.00	40.99	36.24	6.66	35.53	48.36	74.00	-25.64	Peak
9608.00	37.41	37.75	8.56	33.58	50.14	74.00	-23.86	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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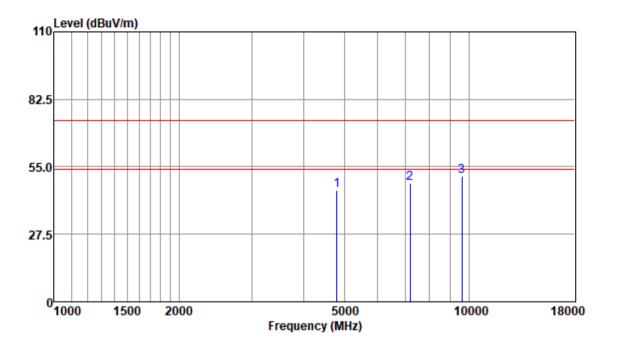
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Report No.: SHCR230200029002

Page: 39 of 82

Test Mode: 00; Polarity: Vertical; Modulation: GFSK; Channel:Low



Antenna Polarity : VERTICAL

					Emission			
Freq	Level	Factor	Loss	Factor	Level			
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4804.00	43.95	33.57	4.53	36.79	45.26	74.00	-28.74	Peak
7206.00	40.82	36.24	6.66	35.53	48.19	74.00	-25.81	Peak
9608.00	38.61	37.75	8.56	33.58	51.34	74.00	-22.66	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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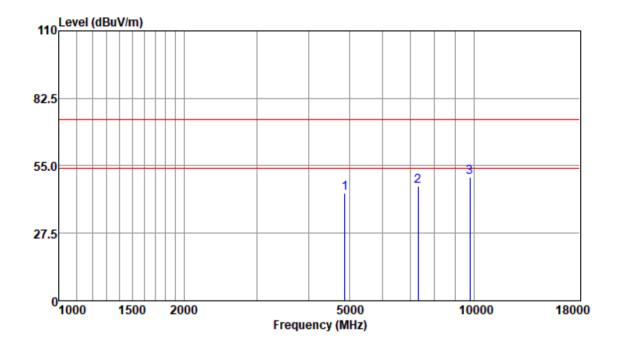
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Report No.: SHCR230200029002

Page: 40 of 82

Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Antenna Polarity : HORIZONTAL

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	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4880.00	42.44	33.66	4.73	36.81	44.02	74.00	-29.98	Peak
7320.00	39.09	36.33	6.59	35.42	46.59	74.00	-27.41	Peak
9760.00	37.73	37.54	8.69	33.50	50.46	74.00	-23.54	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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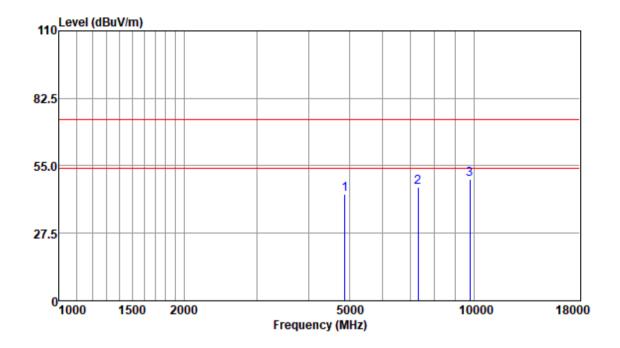
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Report No.: SHCR230200029002

Page: 41 of 82

Test Mode: 00; Polarity: Vertical; Modulation: GFSK; Channel: middle



Antenna Polarity : VERTICAL

中国・上海・松江区金都西路588号

					Emission			
Freq	Level	Factor	Loss	Factor	Level			
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4880.00	41.96	33.66	4.73	36.81	43.54	74.00	-30.46	Peak
7320.00	38.67	36.33	6.59	35.42	46.17	74.00	-27.83	Peak
9760.00	36.83	37.54	8.69	33.50	49.56	74.00	-24.44	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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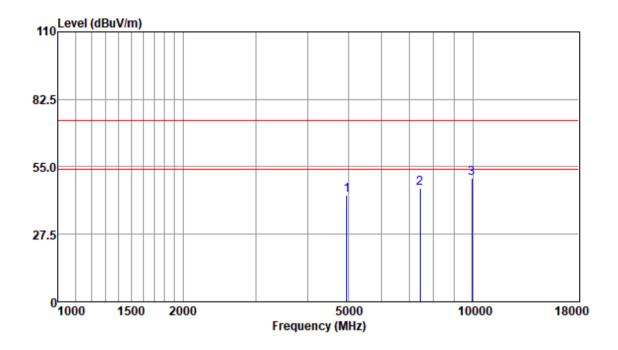
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Report No.: SHCR230200029002

Page: 42 of 82

Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: High



Antenna Polarity : HORIZONTAL

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					Emission			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4960.00	41.80	33.65	4.92	36.83	43.54	74.00	-30.46	Peak
7440.00	38.84	36.31	6.61	35.34	46.42	74.00	-27.58	Peak
9920.00	37.07	37.62	8.87	33.41	50.15	74.00	-23.85	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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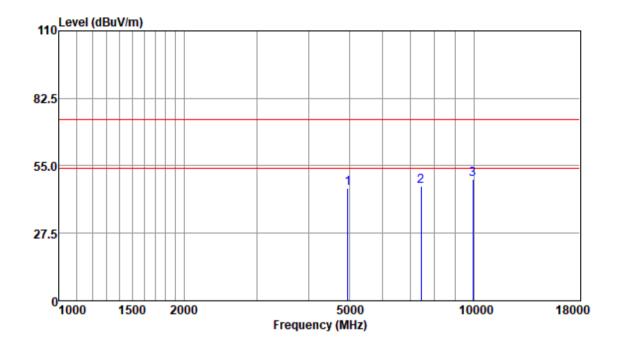
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Report No.: SHCR230200029002

Page: 43 of 82

Test Mode: 00; Polarity: Vertical; Modulation: GFSK; Channel: High



Antenna Polarity : VERTICAL

中国・上海・松江区金都西路588号

					Emission			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4960.00	43.98	33.65	4.92	36.83	45.72	74.00	-28.28	Peak
7440.00	39.01	36.31	6.61	35.34	46.59	74.00	-27.41	Peak
9920.00	36.30	37.62	8.87	33.41	49.38	74.00	-24.62	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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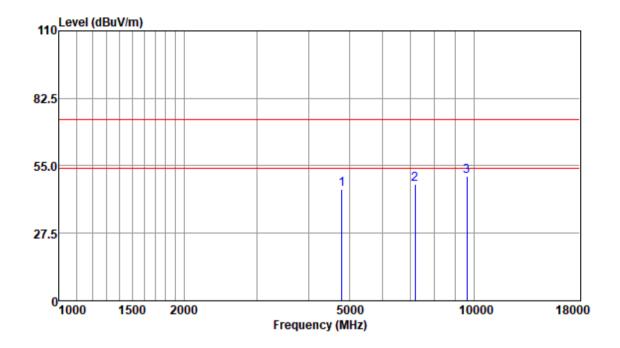
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Report No.: SHCR230200029002

Page: 44 of 82

Test Mode: 01; Polarity: Horizontal; Modulation: GFSK; Channel:Low



Antenna Polarity : HORIZONTAL

中国・上海・松江区金都西路588号

					Emission			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4804.00	43.98	33.57	4.53	36.79	45.29	74.00	-28.71	Peak
7206.00	40.27	36.24	6.66	35.53	47.64	74.00	-26.36	Peak
9608.00	37.99	37.75	8.56	33.58	50.72	74.00	-23.28	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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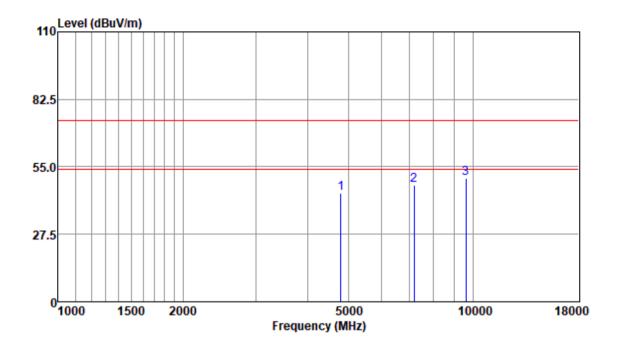
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Report No.: SHCR230200029002

Page: 45 of 82

Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:Low



Antenna Polarity : VERTICAL

中国・上海・松江区金都西路588号

					Emission			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4804.00	42.86	33.57	4.53	36.79	44.17	74.00	-29.83	Peak
7206.00	40.19	36.24	6.66	35.53	47.56	74.00	-26.44	Peak
9608.00	37.74	37.75	8.56	33.58	50.47	74.00	-23.53	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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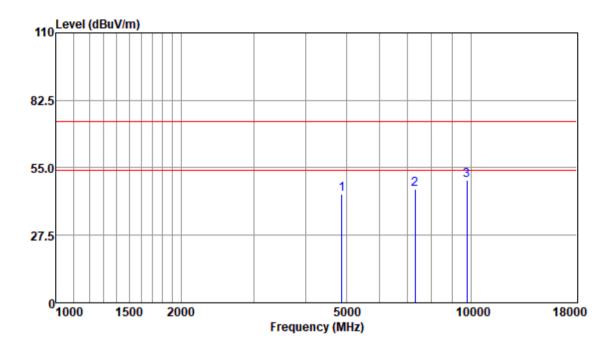
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Report No.: SHCR230200029002

Page: 46 of 82

Test Mode: 01; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Antenna Polarity : HORIZONTAL

					Emission			
Freq	Level	Factor	Loss	Factor	Level			
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4880.00	42.60	33.66	4.73	36.81	44.18	74.00	-29.82	Peak
7320.00	38.85	36.33	6.59	35.42	46.35	74.00	-27.65	Peak
9760.00	37.06	37.54	8.69	33.50	49.79	74.00	-24.21	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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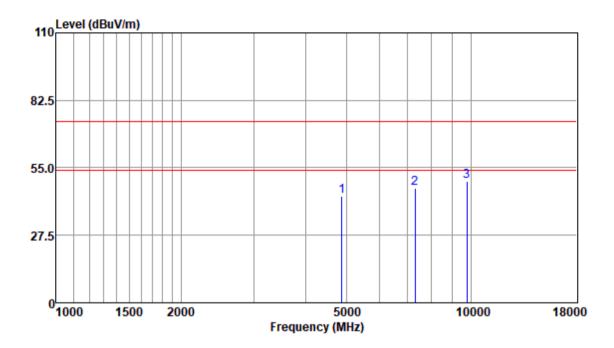
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Report No.: SHCR230200029002

Page: 47 of 82

Test Mode: 01; Polarity: Vertical; Modulation: GFSK; Channel: middle



Antenna Polarity : VERTICAL

					Emission			
Freq	Level	Factor	Loss	Factor	Level			
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4880.00	41.95	33.66	4.73	36.81	43.53	74.00	-30.47	Peak
7320.00	39.32	36.33	6.59	35.42	46.82	74.00	-27.18	Peak
9760.00	36.84	37.54	8.69	33.50	49.57	74.00	-24.43	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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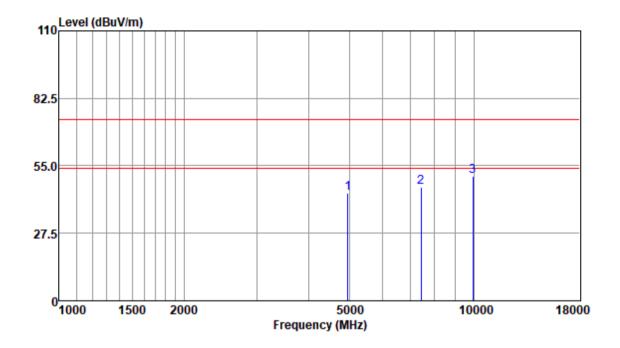
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Report No.: SHCR230200029002

Page: 48 of 82

Test Mode: 01; Polarity: Horizontal; Modulation: GFSK; Channel: High



Antenna Polarity : HORIZONTAL

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					Emission			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4960.00	42.30	33.65	4.92	36.83	44.04	74.00	-29.96	Peak
7440.00	38.81	36.31	6.61	35.34	46.39	74.00	-27.61	Peak
9920.00	37.79	37.62	8.87	33.41	50.87	74.00	-23.13	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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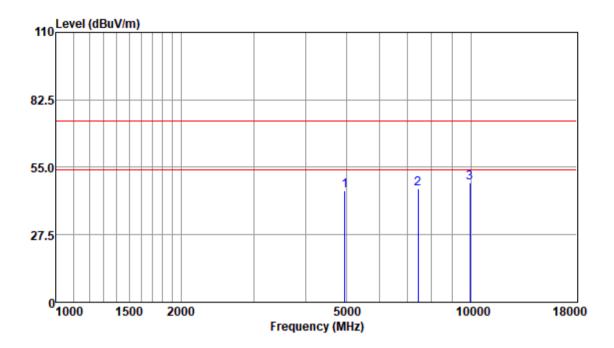
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Report No.: SHCR230200029002

Page: 49 of 82

Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:High



Antenna Polarity : VERTICAL

	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4960.00	43.91	33.65	4.92	36.83	45.65	74.00	-28.35	Peak
7440.00	38.66	36.31	6.61	35.34	46.24	74.00	-27.76	Peak
9920.00	35.58	37.62	8.87	33.41	48.66	74.00	-25.34	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Report No.: SHCR230200029002

Page: 50 of 82

7.9 99% Bandwidth

Test Requirement RSS-Gen Section 6.7
Test Method: ANSI C63.10 Section 6.9.3

7.9.1 E.U.T. Operation

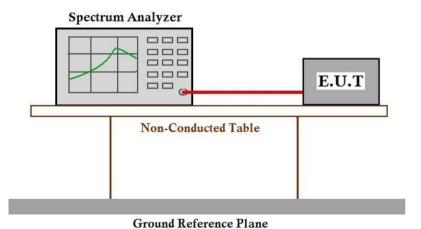
Operating Environment:

Temperature: 20.2 °C Humidity: 69.7 % RH Atmospheric Pressure: 1010 mbar

7.9.2 Test Mode Description

the state of the s							
Pre-scan / Final test	Mode Code	Description					
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.					
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.					

7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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Report No.: SHCR230200029002

Page: 51 of 82

8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SHCR2302000290HS

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for SHCR2302000290HS

10 Appendix

- 1. Bandwidth
- 1.1 OBW

1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
			ANI	Result	verdict
		2402	1	1.035	Pass
1M	SISO	2440	1	1.040	Pass
		2480	1	1.042	Pass
2M		2402	1	2.060	Pass
	SISO	2440	1 2.062	Pass	
		2480	1	2.064	Pass



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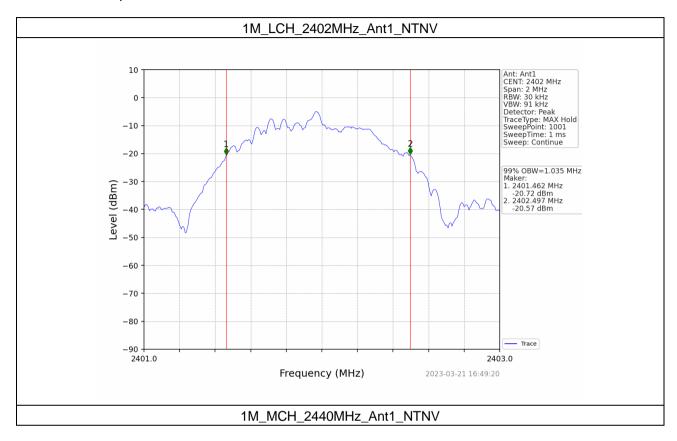
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Report No.: SHCR230200029002

Page: 52 of 82

1.1.2 Test Graph





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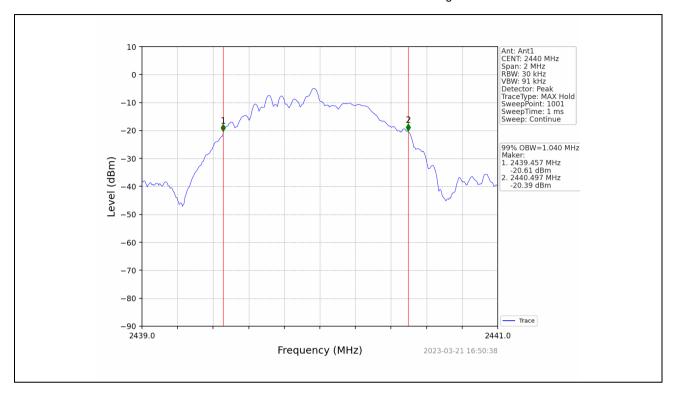
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Report No.: SHCR230200029002

Page: 53 of 82





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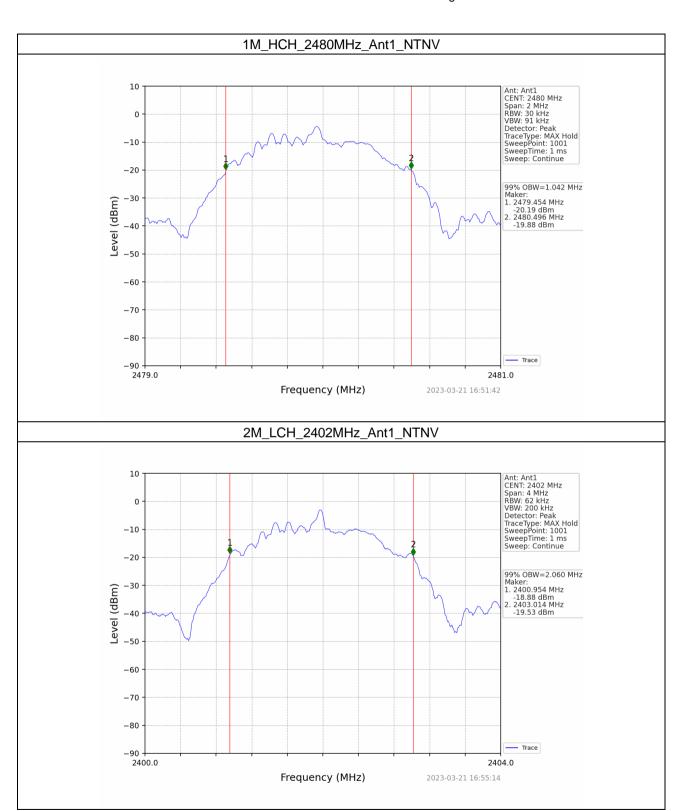
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Page: 54 of 82





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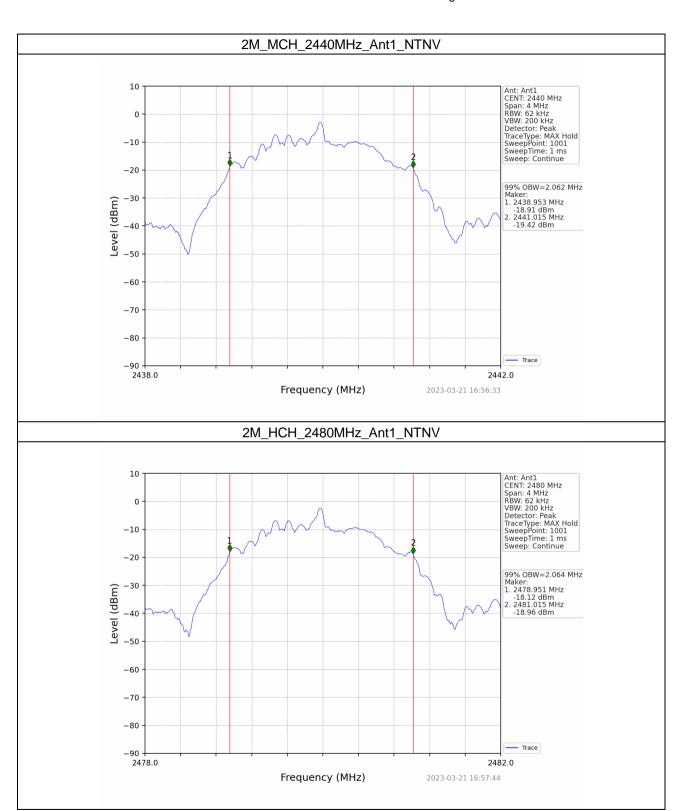
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Page: 55 of 82





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Report No.: SHCR230200029002

Page: 56 of 82

1.2 6dB BW

1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Mondiet
				Result	Limit	Verdict
	SISO	2402	1	0.698	>=0.5	Pass
1M		2440	1	0.696	>=0.5	Pass
		2480	1	0.704	>=0.5	Pass
		2402	1	1.126	>=0.5	Pass
2M	SISO	2440	1	1.134	>=0.5	Pass
		2480	1	1.133	>=0.5	Pass



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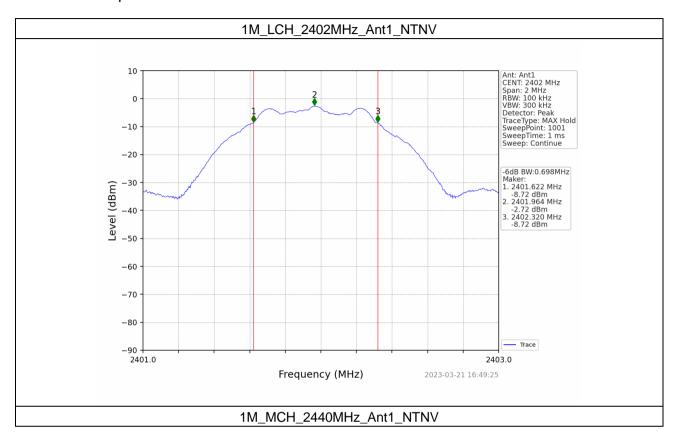
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Report No.: SHCR230200029002

Page: 57 of 82

1.2.2 Test Graph





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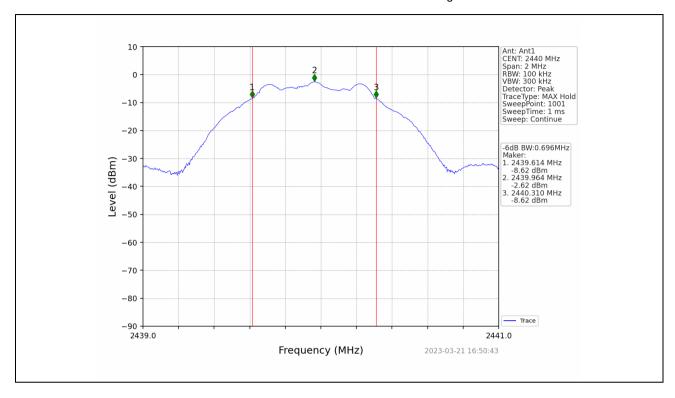
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Page: 58 of 82





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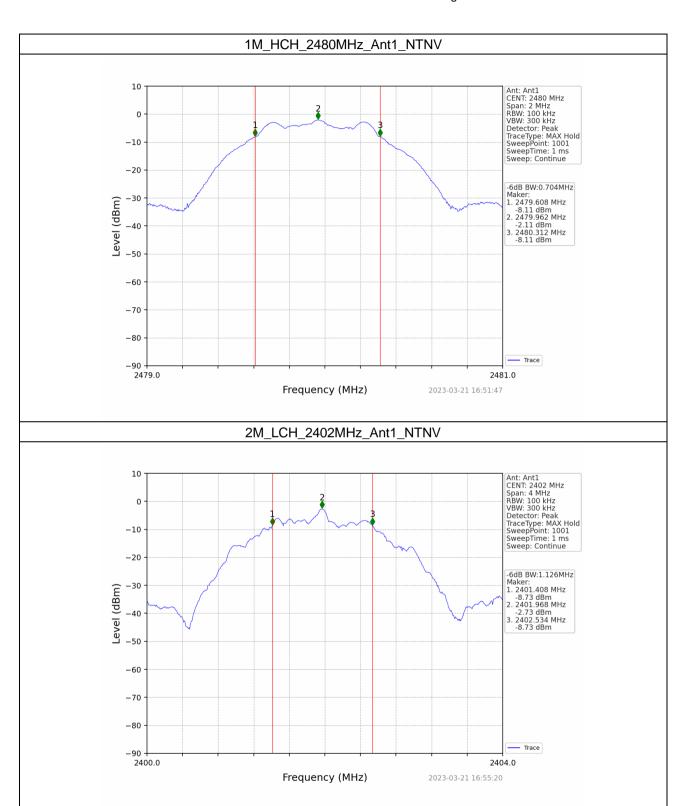
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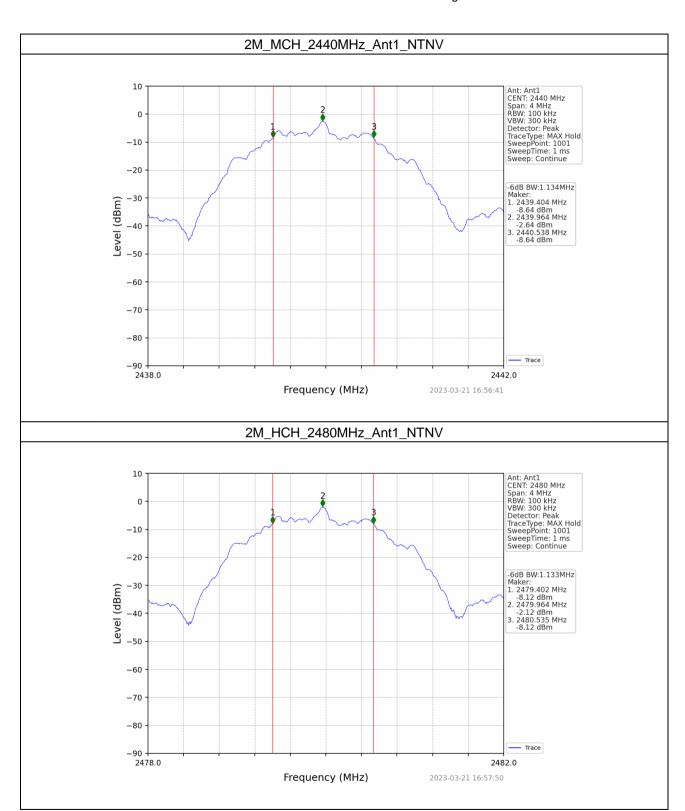
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Report No.: SHCR230200029002

Page: 61 of 82

2. Maximum Conducted Output Power

2.1 Power

2.1.1 Test Result

Mode	TX Type		Maximum Peak Conduct	Verdict			
			ANT1	Limit	verdict		
		2402	-2.54	<=30	Pass		
1M	SISO	2440	-2.44 <=30	<=30	Pass		
		2480	-1.94	<=30	Pass		
2M		2402	-2.54	<=30	Pass		
	SISO	2440	-2.45	<=30	Pass		
		2480	-1.91	<=30	Pass		
Note1: Ant	Note1: Antenna Gain: Ant1: 0.00dBi;						



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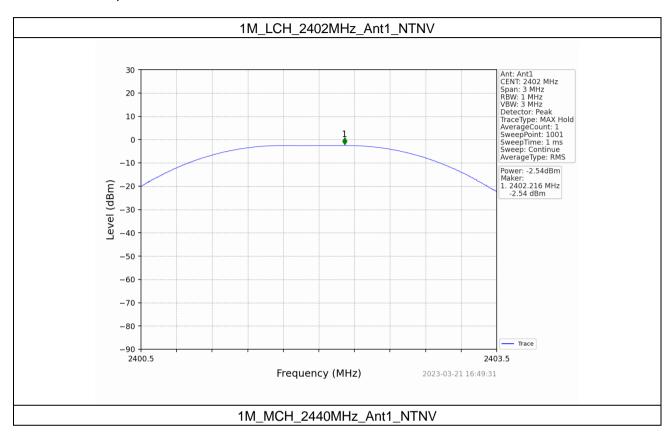
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Page: 62 of 82

2.1.2 Test Graph





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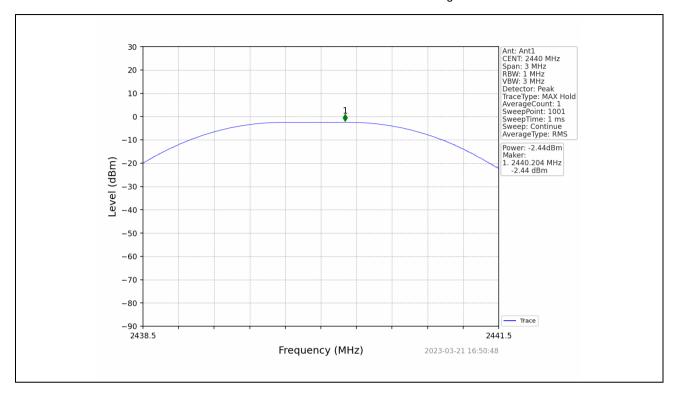
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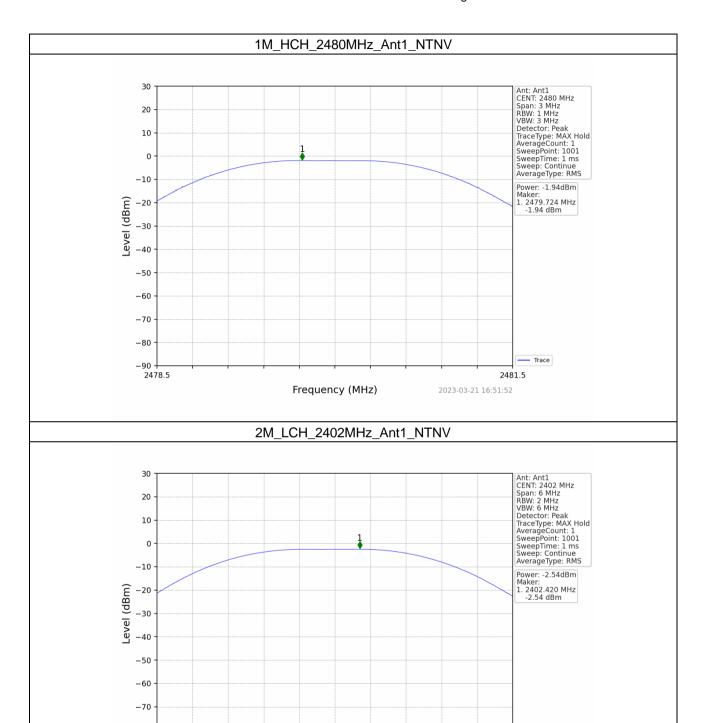
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Report No.: SHCR230200029002

Page: 64 of 82





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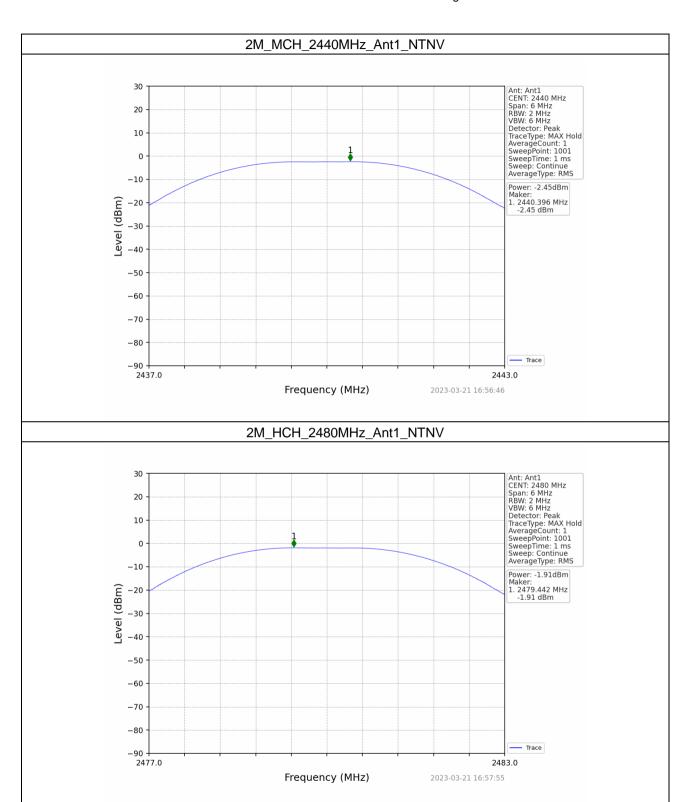
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Report No.: SHCR230200029002

Page: 66 of 82

3. Maximum Power Spectral Density

3.1 PSD

3.1.1 Test Result

Mode	TX Type	Frequency	Maximum PS	Vordict			
		(MHz)	ANT1	Limit	Verdict		
1M		2402	-17.95	<=8	Pass		
	SISO	2440	-17.91	<=8	Pass		
		2480	-17.34	<=8	Pass		
2M	SISO	2402	-20.58	<=8	Pass		
		2440	-20.42	<=8	Pass		
		2480	-19.97	<=8	Pass Pass Pass		
Note1: Antenna Gain: Ant1: 0.00dBi;							



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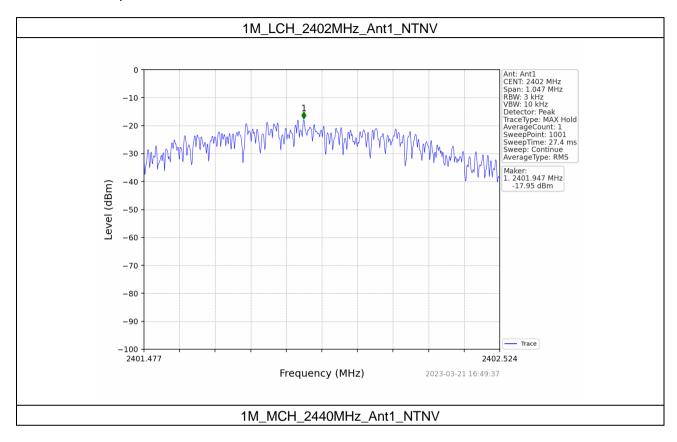
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Page: 67 of 82

3.1.2 Test Graph





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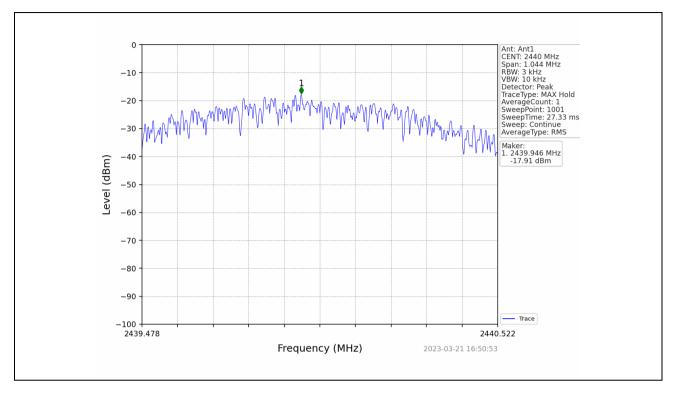
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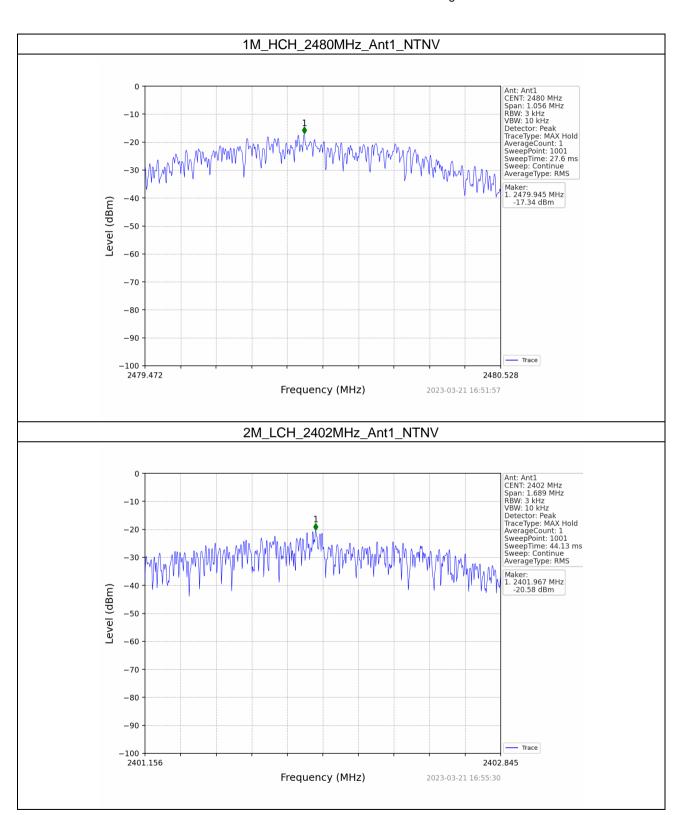
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Report No.: SHCR230200029002

Page: 69 of 82





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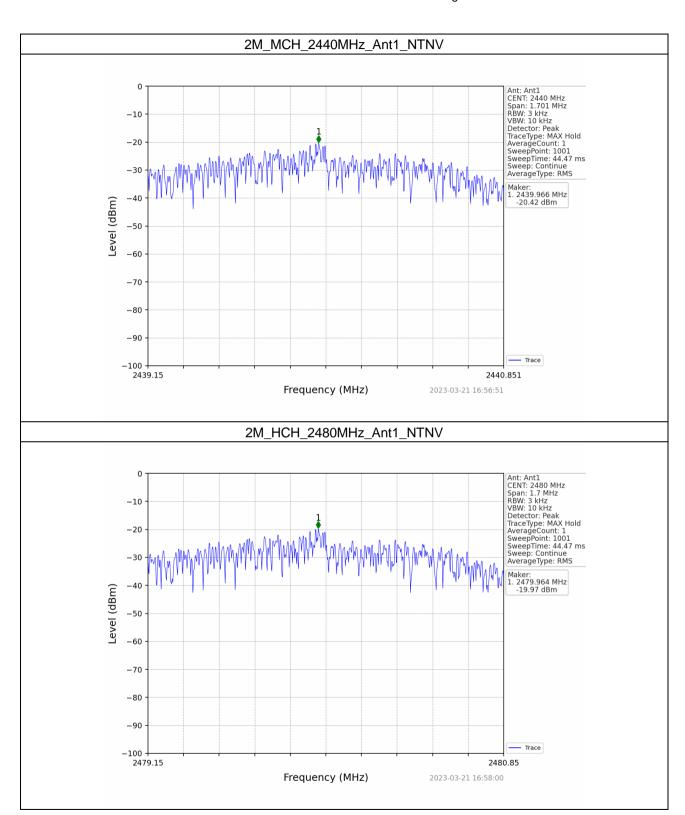
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Report No.: SHCR230200029002

Page: 70 of 82





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Report No.: SHCR230200029002

Page: 71 of 82

4. Unwanted Emissions In Non-restricted Frequency Bands

4.1 Ref

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
	SISO	2402	1	-2.70
1M		2440	1	-2.63
TIVI		2480	1	-2.12
	SISO	2402	1	-2.73
2M		2440	1	-2.67
		2480	1	-2.13

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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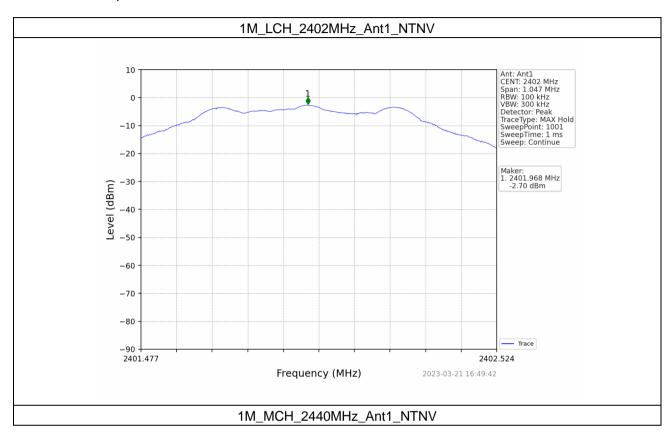
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Report No.: SHCR230200029002

Page: 72 of 82

4.1.2 Test Graph





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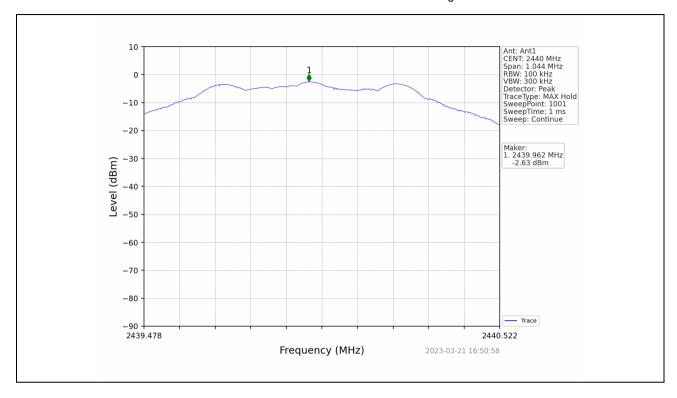
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Page: 73 of 82





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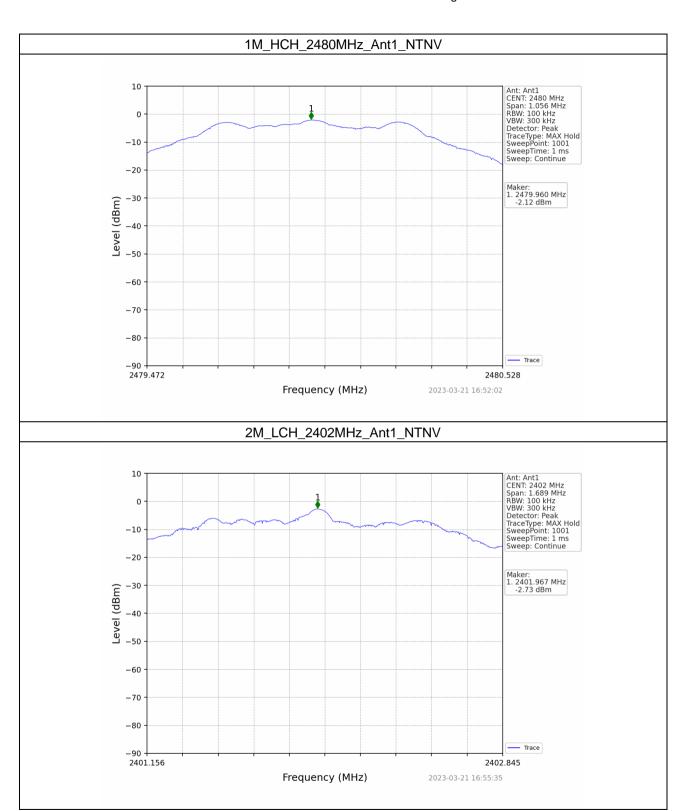
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Report No.: SHCR230200029002

Page: 74 of 82





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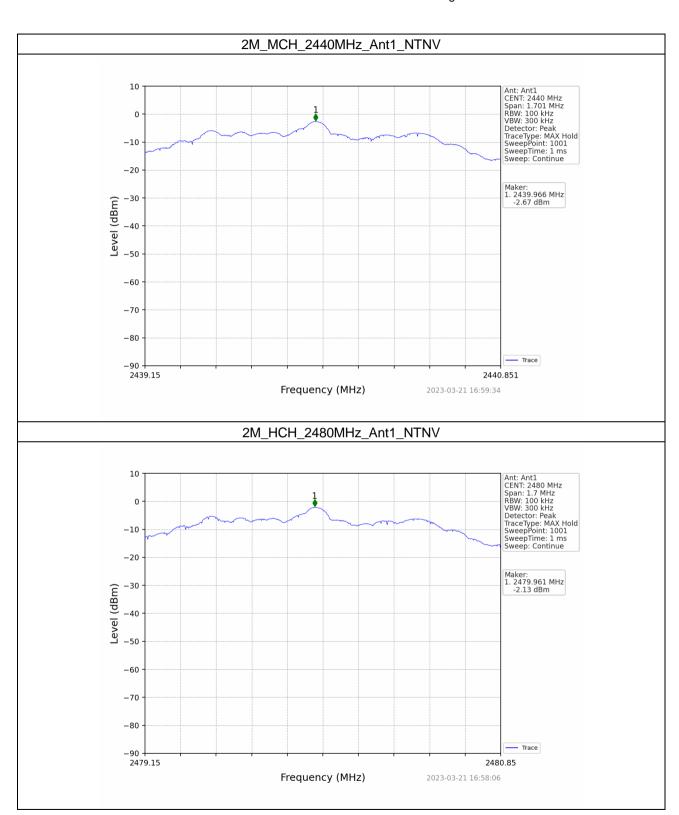
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Report No.: SHCR230200029002

Page: 76 of 82

4.2 CSE

4.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
		2402	1	-2.12	-32.12	Pass
1M	SISO	2440	1	-2.12	-32.12	Pass
		2480	1	-2.12	-32.12	Pass
2M		2402	1	-2.13	-22.13	Pass
	SISO	2440	1	-2.13	-22.13	Pass
		2480	1	-2.13	-22.13	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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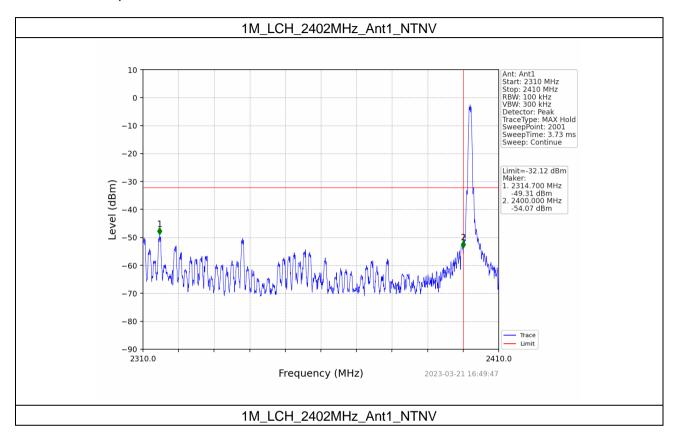
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Report No.: SHCR230200029002

Page: 77 of 82

4.2.2 Test Graph





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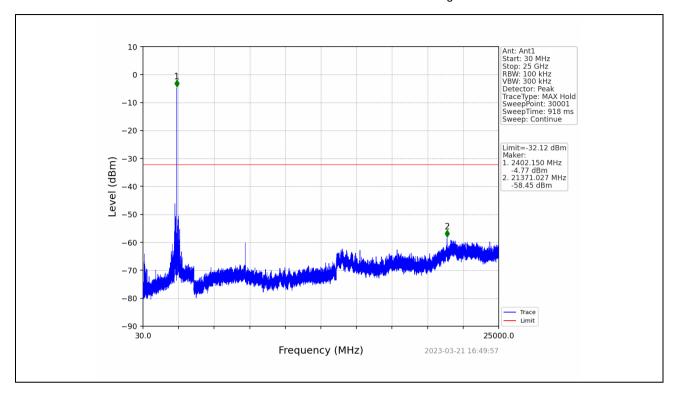
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Report No.: SHCR230200029002

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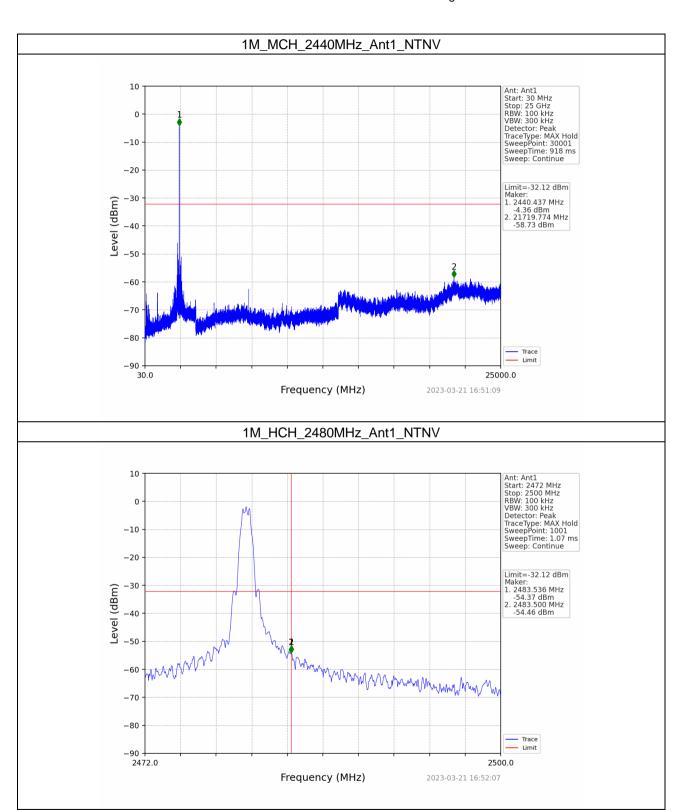
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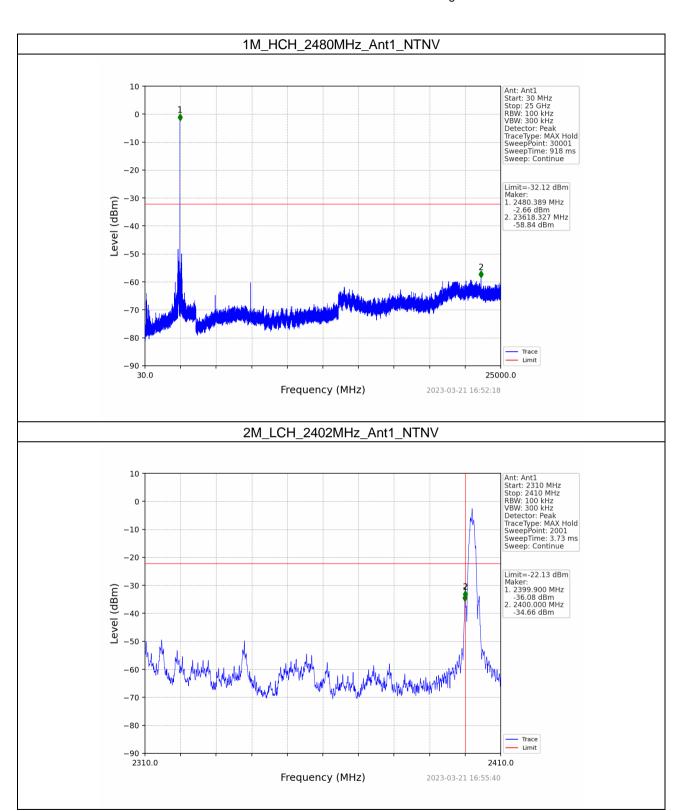
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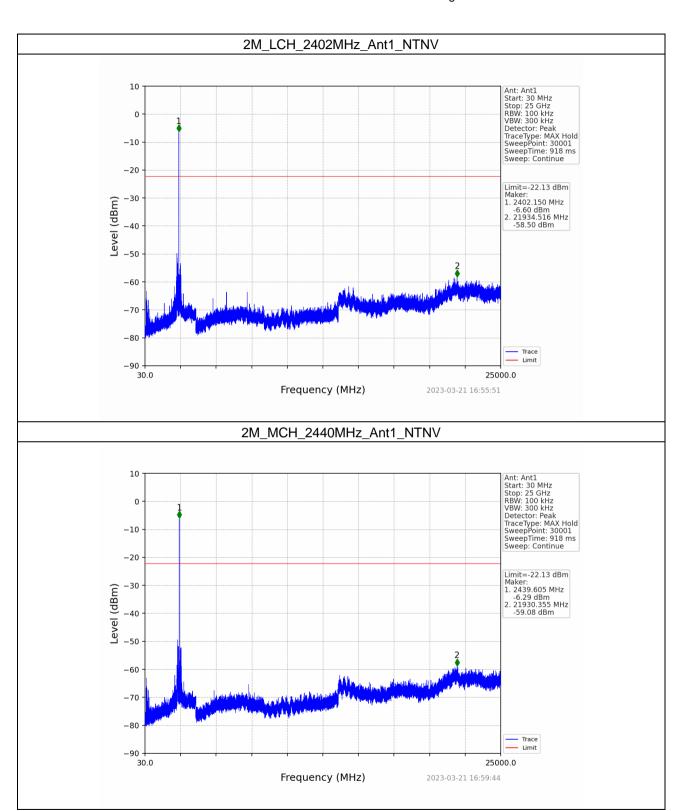
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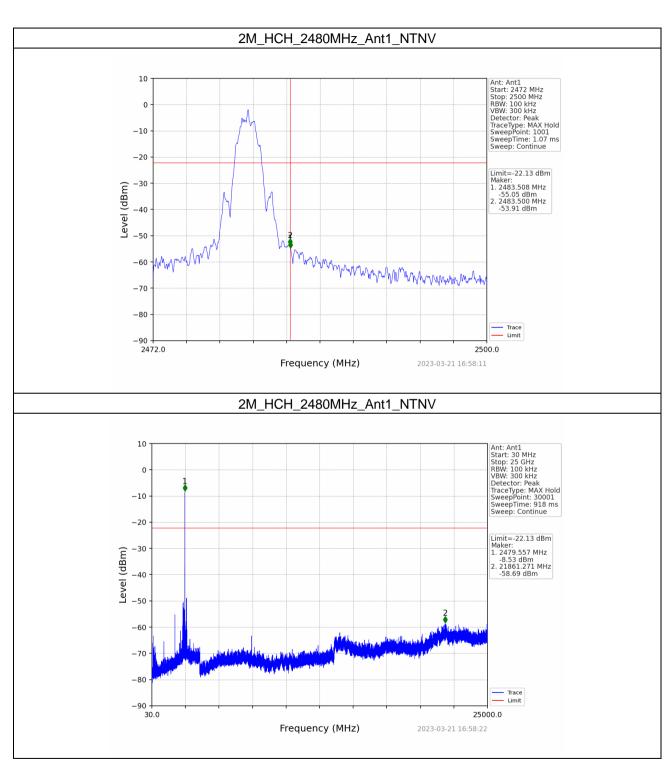
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Report No.: SHCR230200029002

Page: 82 of 82



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