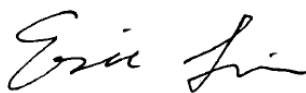


TEST REPORT

Application No.: KSCR2301000005AT
FCC ID: 2AC8UA2285
Applicant: Anhui Huami Information Technology Co., Ltd.
Address of Applicant: 7/F, Building B2, Huami Global Innovation Center, No. 900, Wangjiang West Road, High-tech Zone, Hefei City, China (Anhui) Pilot Free Trade Zone (230088)
Manufacturer: Anhui Huami Information Technology Co., Ltd.
Address of Manufacturer: 7/F, Building B2, Huami Global Innovation Center, No. 900, Wangjiang West Road, High-tech Zone, Hefei City, China (Anhui) Pilot Free Trade Zone (230088)
Equipment Under Test (EUT):
EUT Name: Zepp Clarity Pixie
Model No.: A2285, A2216
 Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2023-01-03
Date of Test: 2023-01-11 to 2023-02-02
Date of Issue: 2023-02-09

Test Result:	Pass*
---------------------	--------------

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



Eric Lin
Laboratory Manager



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230100000501

Page: 2 of 125

Revision Record			
Version	Description	Date	Remark
00	Original	2023-02-09	/

Authorized for issue by:				
		Damon Zhou		
		Damon Zhou/Project Engineer		
		Eric Lin		
		Eric Lin /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 Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement		ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions		ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
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

Declaration of EUT Family Grouping:

There are series models mentioned in this report and they are the similar in electrical and electronic characters. Only the model A2285 was tested since their differences are model number.



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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 POWER LEVEL SETTING USING IN TEST	6
4.3 DESCRIPTION OF SUPPORT UNITS	6
4.4 MEASUREMENT UNCERTAINTY	7
4.5 TEST LOCATION.....	8
4.6 TEST FACILITY.....	8
4.7 DEVIATION FROM STANDARDS	8
4.8 ABNORMALITIES FROM STANDARD CONDITIONS	8
5 EQUIPMENT LIST.....	9
6 RADIO SPECTRUM TECHNICAL REQUIREMENT	10
6.1 ANTENNA REQUIREMENT	10
6.1.1 Test Requirement:	10
6.1.2 Conclusion	10
7 RADIO SPECTRUM MATTER TEST RESULTS.....	11
7.1 CONDUCTED PEAK OUTPUT POWER	11
7.1.1 E.U.T. Operation	11
7.1.2 Test Mode Description	11
7.1.3 Test Setup Diagram	11
7.1.4 Measurement Procedure and Data.....	11
7.2 MINIMUM 6dB BANDWIDTH.....	12
7.2.1 E.U.T. Operation	12
7.2.2 Test Mode Description	12
7.2.3 Test Setup Diagram	12
7.2.4 Measurement Procedure and Data.....	12
7.3 POWER SPECTRUM DENSITY	13
7.3.1 E.U.T. Operation	13
7.3.2 Test Mode Description	13
7.3.3 Test Setup Diagram	13
7.3.4 Measurement Procedure and Data.....	13
7.4 CONDUCTED BAND EDGES MEASUREMENT	14
7.4.1 E.U.T. Operation	14
7.4.2 Test Mode Description	14
7.4.3 Test Setup Diagram	14
7.4.4 Measurement Procedure and Data.....	14



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Report No.: KSCR230100000501

Page: 5 of 125

7.5	CONDUCTED SPURIOUS EMISSIONS.....	15
7.5.1	E.U.T. Operation.....	15
7.5.2	Test Mode Description.....	15
7.5.3	Test Setup Diagram.....	15
7.5.4	Measurement Procedure and Data.....	15
7.6	RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS	16
7.6.1	E.U.T. Operation.....	16
7.6.2	Test Mode Description.....	16
7.6.3	Test Setup Diagram.....	17
7.6.4	Measurement Procedure and Data.....	18
7.7	RADIATED SPURIOUS EMISSIONS BELOW 1GHZ.....	35
7.7.1	E.U.T. Operation.....	35
7.7.2	Test Mode Description.....	35
7.7.3	Test Setup Diagram.....	35
7.7.4	Measurement Procedure and Data.....	36
7.8	RADIATED SPURIOUS EMISSIONS ABOVE 1GHZ	39
7.8.1	E.U.T. Operation.....	39
7.8.2	Test Mode Description.....	39
7.8.3	Test Setup Diagram.....	39
7.8.4	Measurement Procedure and Data.....	40
8	TEST SETUP PHOTO.....	65
9	EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)	65
10	APPENDIX.....	66



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 3.87V by Rechargeable Li-ion Button cell for earphone. Button cell model:5345 Ratings:3.87V dc,9mAh.
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.3 LE
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Data Rate:	1Mbps, 2Mbps
Antenna Type:	Monopole Antenna
Antenna Gain:	Left Earphone: -5.22dBi (Provided by the manufacturer) Right Earphone: -5.22dBi (Provided by the manufacturer)

4.2 Power level setting using in test

Channel	BLE 1M	BLE 2M
	Ant 1	Ant 1
0	default	default
19	default	default
39	default	default

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	Lenovo	--	--



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4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4×10^{-8}
2	Timeout	2s
3	Duty Cycle	0.37%
4	Occupied Bandwidth	3%
5	RF Conducted Power	0.6dB
6	RF Power Density	2.9dB
7	Conducted Spurious Emissions	0.75dB
8	RF Radiated Power	5.2dB (Below 1GHz)
		5.9dB (Above 1GHz)
9	Radiated Spurious Emission Test	4.2dB (Below 30MHz)
		4.5dB (30MHz-1GHz)
		5.1dB (1GHz-18GHz)
		5.4dB (Above 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.: KSCR230100000501

Page: 8 of 125

4.5 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working 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

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

• FCC

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

• ISED

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

• VCCI

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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5 Equipment List

Item	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal. Due Date
RF Conducted Test						
1	Spectrum Analyzer	Keysight	N9020A	KUS1911E004-2	08/22/2022	08/21/2023
2	Spectrum Analyzer	Keysight	N9020A	KUS2001M001-2	08/22/2022	08/21/2023
3	Spectrum Analyzer	Keysight	N9030B	KSEM021-1	01/21/2022 01/21/2023	01/20/2023 01/20/2024
4	Signal Generator	R&S	SMW200A	KSEM020-1	08/22/2022	08/21/2023
5	Signal Generator	Agilent	N5182A	KUS2001M001-1	08/22/2022	08/21/2023
6	Radio Communication Test Station	Anritsu	MT8000A	KSEM001-1	08/22/2022	08/21/2023
7	Radio Communication Analyzer	Anritsu	MT8821C	KSEM002-1	04/01/2022	03/31/2023
8	Universal Radio Communication Tester	R&S	CMW500	KUS1911E004-1	08/22/2022	08/21/2023
9	Switcher	CCSRF	FY562	KUS2001M001-3	08/22/2022	08/21/2023
10	AC Power Source	EXTECH	6605	KS301178	N.C.R	N.C.R
11	DC Power Supply	Agilent	E3632A	KS301180	N.C.R	N.C.R
12	Conducted Test Cable	Thermax	RF01-RF04	CZ301111- CZ301120	01/15/2022 01/15/2023	01/14/2023 01/14/2024
13	Temp. / Humidity Chamber	TERCHY	MHK-120AK	KS301190	04/01/2021	03/31/2023
14	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-5	04/14/2022	04/13/2023
15	Software	BST	TST-PASS	/	N/A	N/A
RF Radiated Test						
1	Spectrum Analyzer	R&S	FSV40	KUS1806E003	08/22/2022	08/21/2023
2	Universal Radio Communication Tester	R&S	CMW500	KSEM009-1	04/01/2022	03/31/2023
3	Signal Generator	Agilent	E8257C	KS301066	08/22/2022	08/21/2023
4	Loop Antenna	COM-POWER	AL-130R	KUS1806E001	04/13/2021	04/12/2023
5	Bilog Antenna	TESEQ	CBL 6112D	KUS1806E005	06/29/2021	06/28/2023
6	Bilog Antenna	SCHWARZBECK	VULB9160	CZ301016	04/13/2021	04/12/2024
7	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	KS301079	04/02/2022	04/01/2024
8	Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	KS301186	02/22/2021	02/21/2023
9	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	CZ301058	03/17/2022	03/16/2023
10	Amplifier(30MHz~18GHz)	PANSHAN TECHNOLOGY	LNA:1~18G	KSEM010-1	01/21/2022 01/21/2023	01/20/2023 01/20/2024
11	Amplifier(18~40GHz)	COM-POWER	PAM-840A	KUS1710E001	01/21/2022 01/21/2023	01/20/2023 01/20/2024
12	RE Test Cable	REBES MICROWAVE	/	CZ301097	11/13/2022	11/12/2023
13	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-4	04/01/2022	03/31/2023
14	Software	Faratronic	EZ EMC-v 3A1	/	N/A	N/A



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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

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 integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -5.22dBi. Antenna location: Refer to External photo.



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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)
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

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 19.4 °C

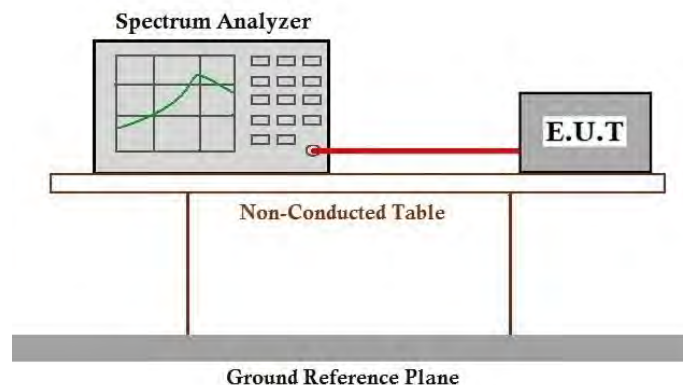
Humidity: 38.9 % RH

Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_ Keep the EUT in continuously transmitting mode with GFSK modulation.

7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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Report No.: KSCR230100000501

Page: 12 of 125

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

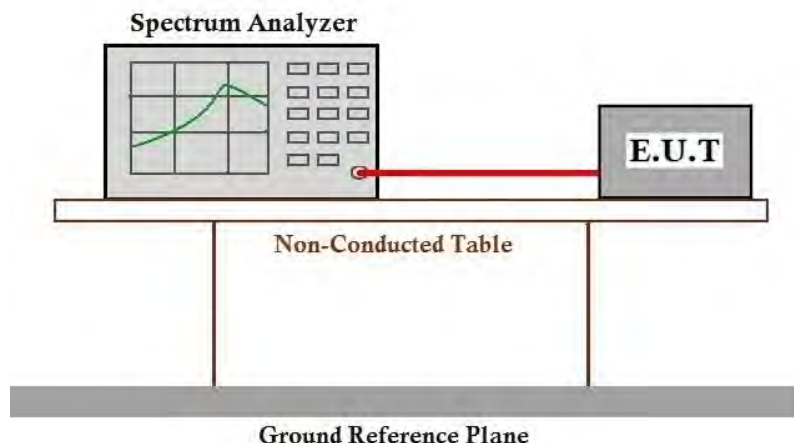
Operating Environment:

Temperature: 19.4 °C Humidity: 38.9 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_ 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.: KSCR230100000501

Page: 13 of 125

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: 19.4 °C

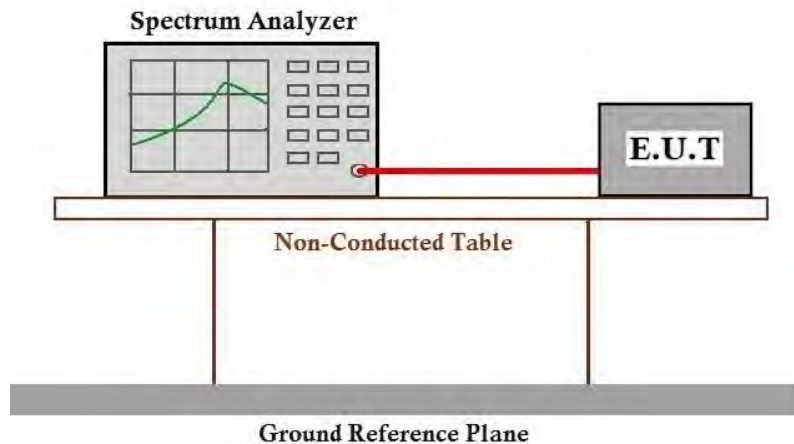
Humidity: 38.9 % RH

Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_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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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: 19.4 °C

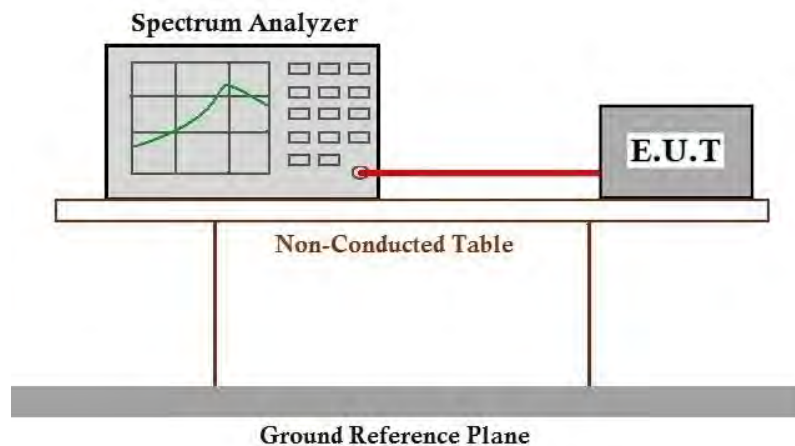
Humidity: 38.9 % RH

Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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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: 19.4 °C

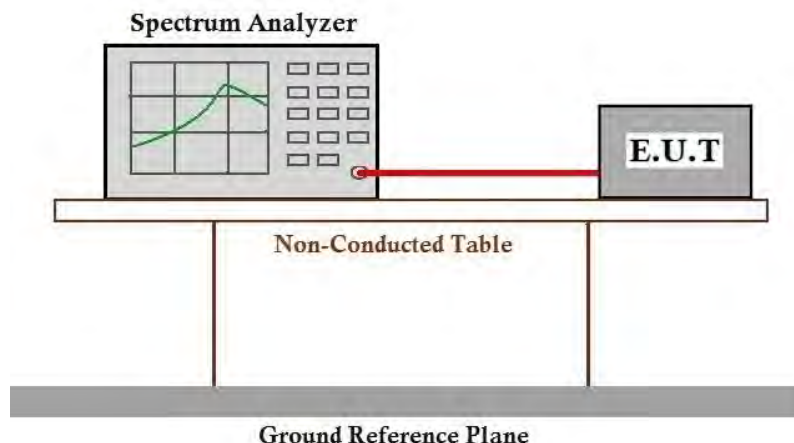
Humidity: 38.9 % RH

Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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Report No.: KSCR230100000501

Page: 16 of 125

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

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.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 24.5 °C

Humidity: 26.2 % RH

Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.



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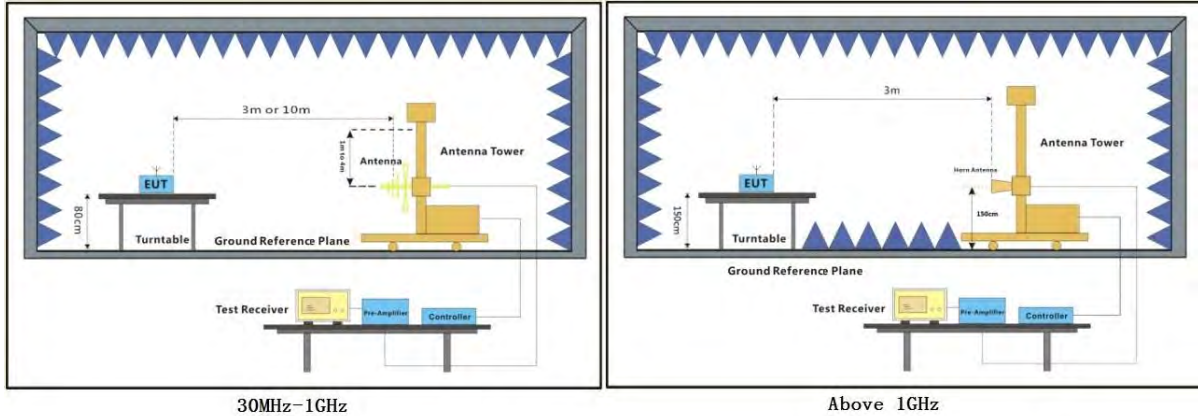
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7.6.3 Test Setup Diagram



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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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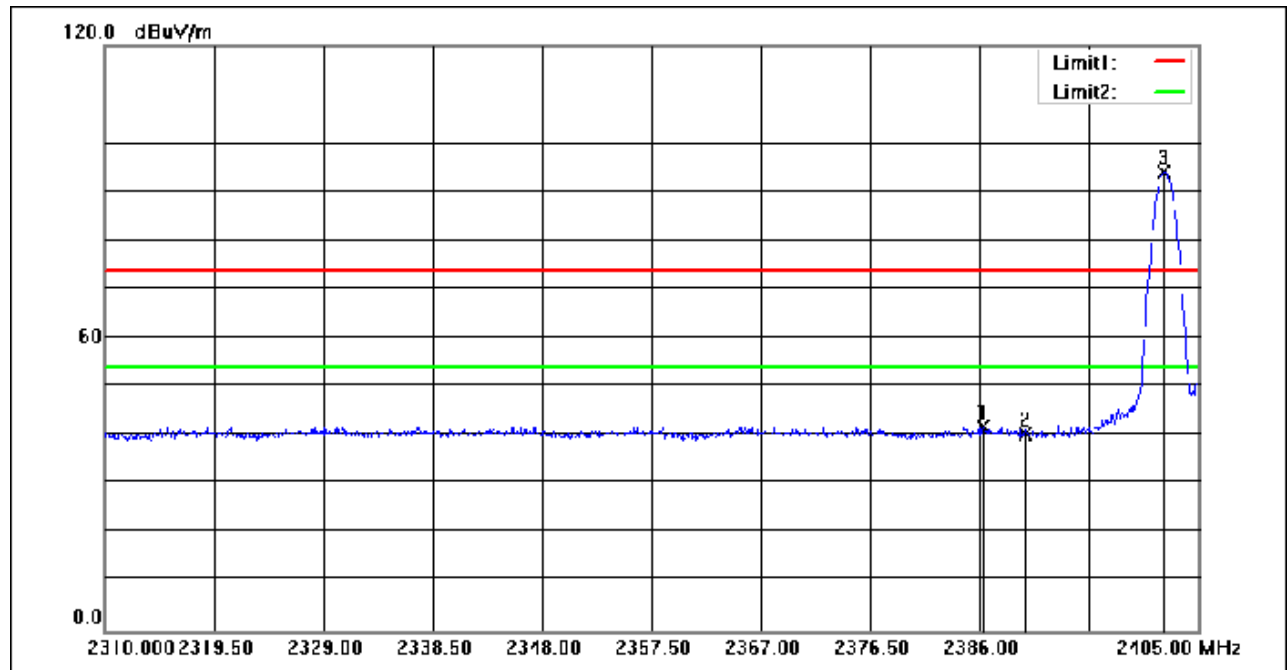
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Report No.: KSCR230100000501

Page: 19 of 125

Left Earphone

Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low; Data Rate:1Mbps



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.285	60.53	-18.70	41.83	74.00	-32.17	peak
2	2390.000	59.09	-18.67	40.42	74.00	-33.58	peak
3	2402.055	112.68	-18.61	94.07	74.00	20.07	peak



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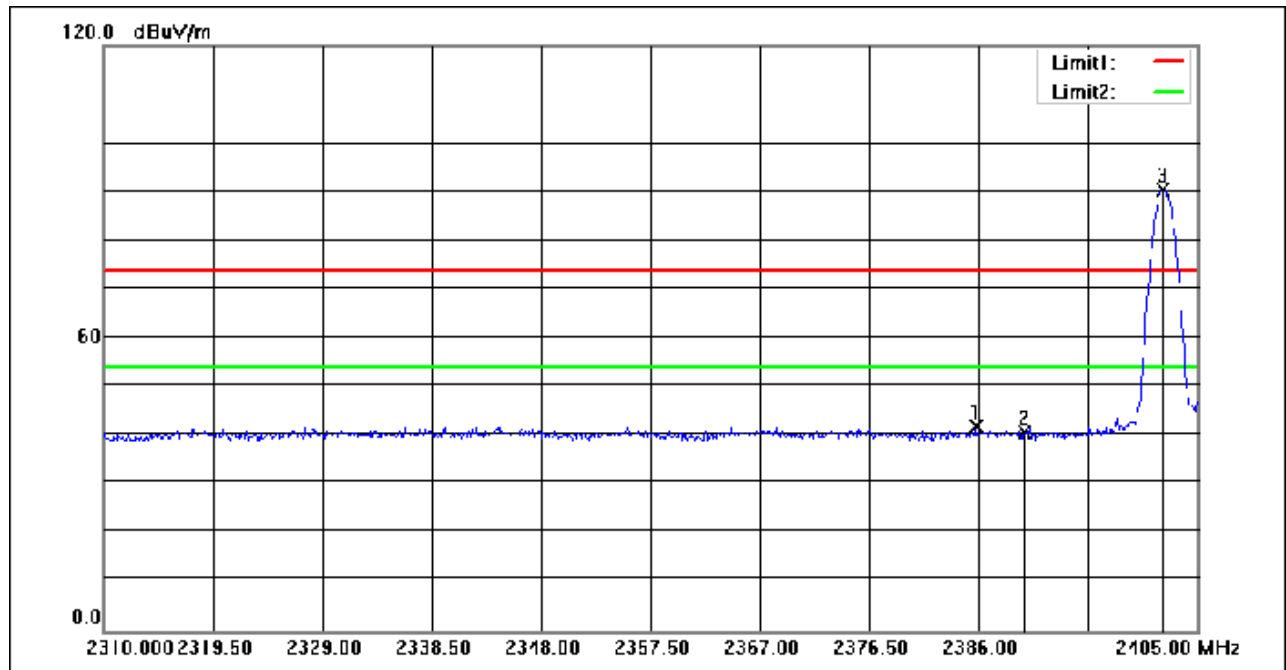
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Page: 20 of 125

Test Mode: 00; Polarity: Vertical; Modulation: GFSK; Channel: Low; Data Rate: 1Mbps



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.810	60.58	-18.71	41.87	74.00	-32.13	peak
2	2390.000	59.39	-18.67	40.72	74.00	-33.28	peak
3	2402.055	109.06	-18.61	90.45	74.00	16.45	peak



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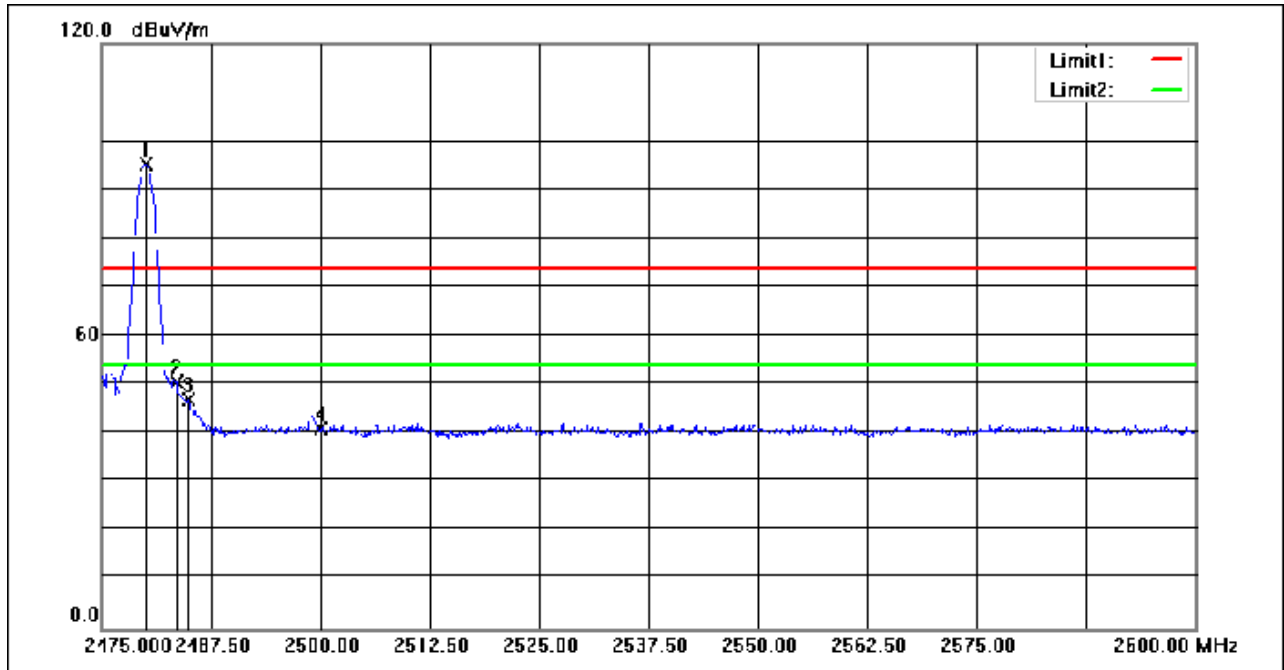
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230100000501

Page: 21 of 125

Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: High; Data Rate: 1Mbps



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.000	113.54	-18.17	95.37	74.00	21.37	peak
2	2483.500	68.78	-18.13	50.65	74.00	-23.35	peak
3	2484.875	65.14	-18.12	47.02	74.00	-26.98	peak
4	2500.000	58.87	-17.95	40.92	74.00	-33.08	peak



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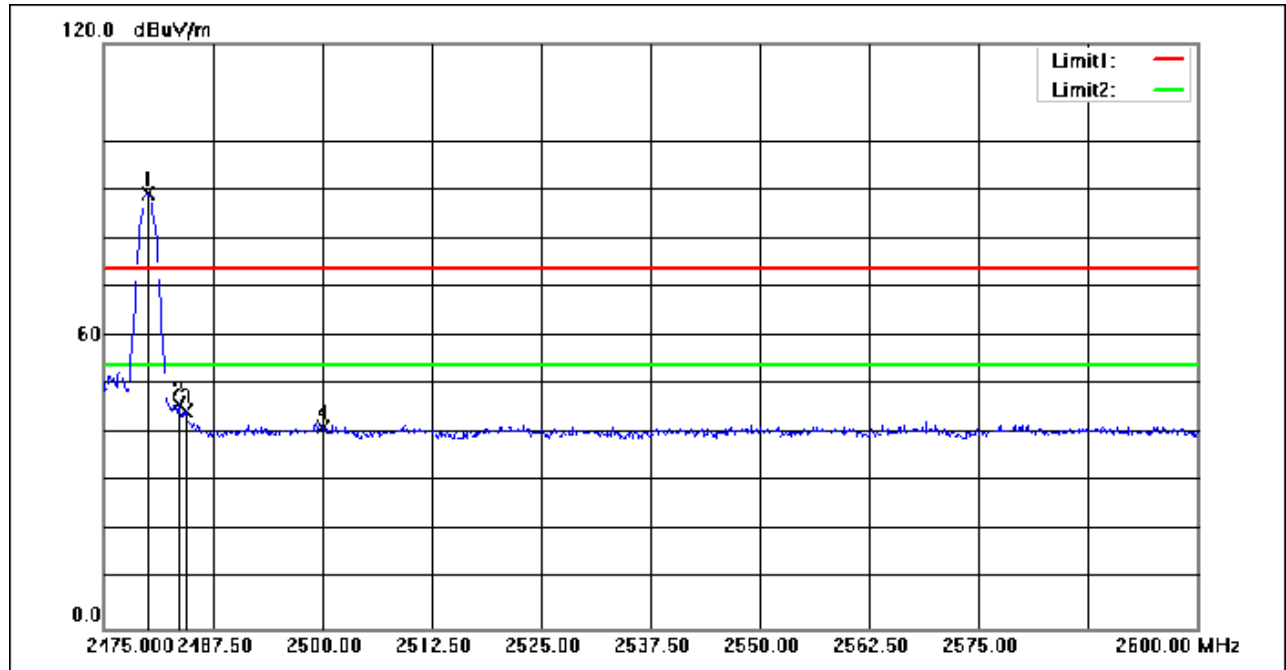
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230100000501

Page: 22 of 125

Test Mode: 00; Polarity: Vertical; Modulation: GFSK; Channel: High; Data Rate: 1Mbps



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.000	107.41	-18.17	89.24	74.00	15.24	peak
2	2483.500	64.05	-18.13	45.92	74.00	-28.08	peak
3	2484.375	62.54	-18.13	44.41	74.00	-29.59	peak
4	2500.000	59.21	-17.95	41.26	74.00	-32.74	peak



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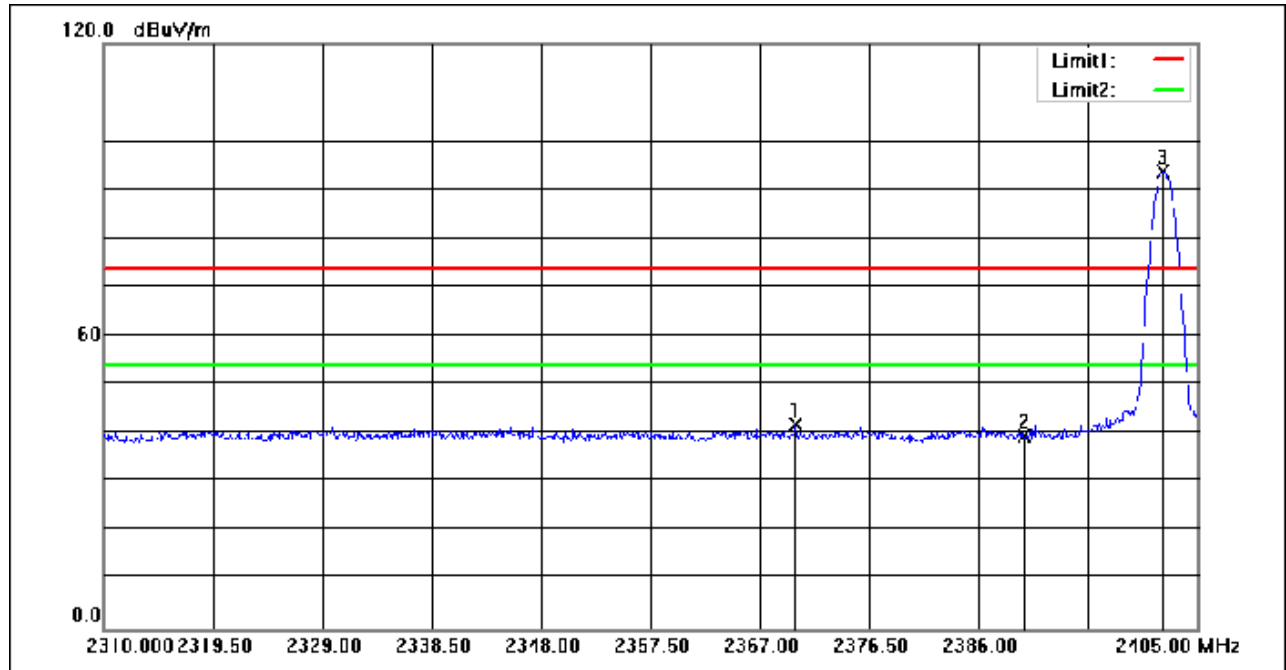
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230100000501

Page: 23 of 125

Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: Low; Data Rate: 2Mbps



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2370.040	60.67	-18.80	41.87	74.00	-32.13	peak
2	2390.000	58.24	-18.67	39.57	74.00	-34.43	peak
3	2402.055	112.42	-18.61	93.81	74.00	19.81	peak



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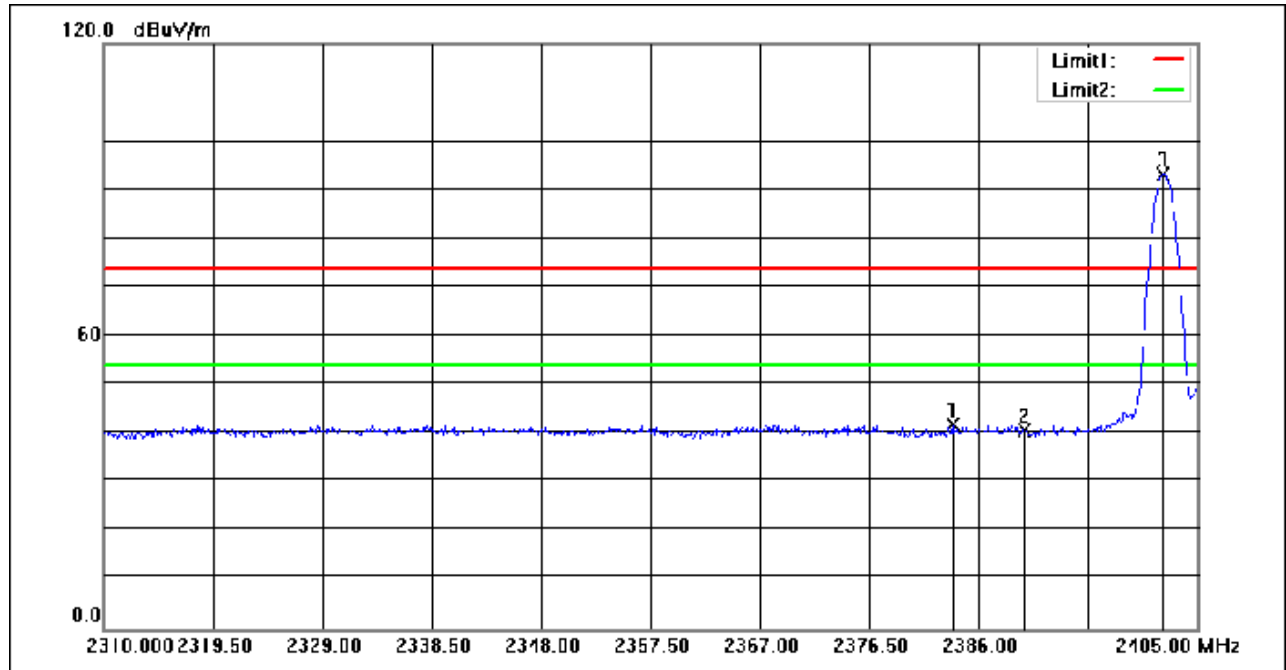
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230100000501

Page: 24 of 125

Test Mode: 00; Polarity: Vertical; Modulation: GFSK; Channel: Low; Data Rate: 2Mbps



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2383.720	60.62	-18.72	41.90	74.00	-32.10	peak
2	2390.000	59.26	-18.67	40.59	74.00	-33.41	peak
3	2402.055	111.75	-18.61	93.14	74.00	19.14	peak



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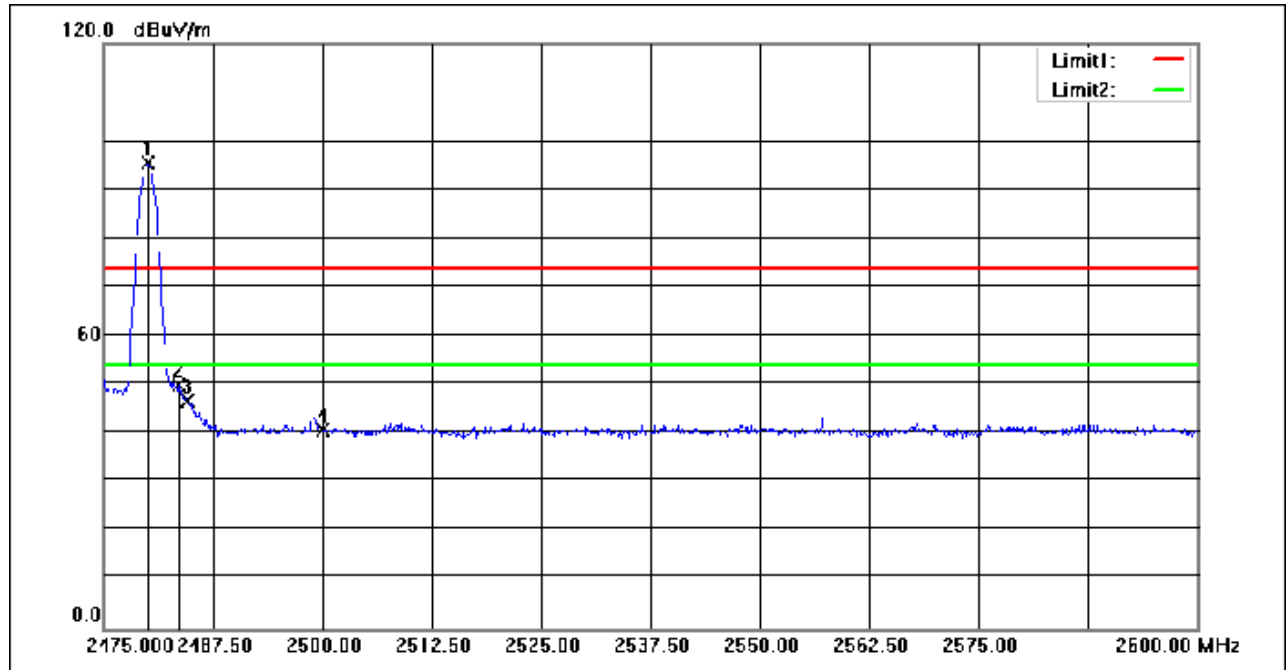
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230100000501

Page: 25 of 125

Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: High; Data Rate: 2Mbps



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.000	113.57	-18.17	95.40	74.00	21.40	peak
2	2483.500	68.17	-18.13	50.04	74.00	-23.96	peak
3	2484.625	64.73	-18.12	46.61	74.00	-27.39	peak
4	2500.000	58.70	-17.95	40.75	74.00	-33.25	peak



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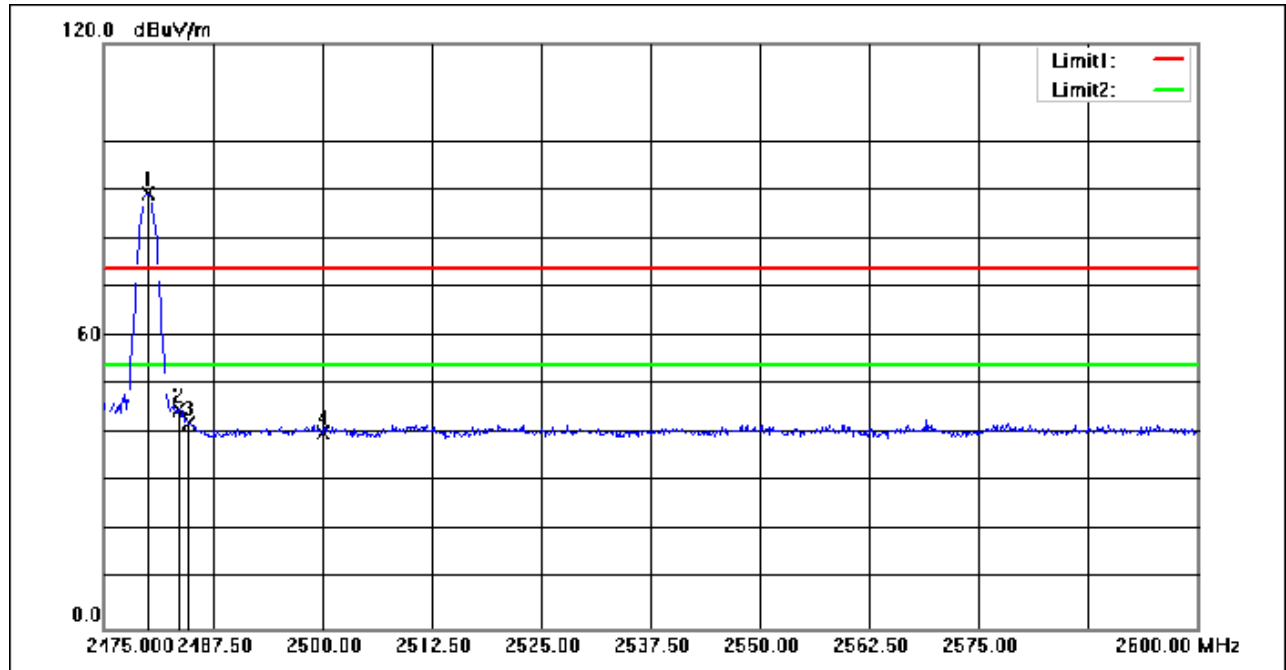
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230100000501

Page: 26 of 125

Test Mode: 00; Polarity: Vertical; Modulation: GFSK; Channel: High; Data Rate: 2Mbps



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.000	107.51	-18.17	89.34	74.00	15.34	peak
2	2483.500	62.99	-18.13	44.86	74.00	-29.14	peak
3	2484.750	60.28	-18.12	42.16	74.00	-31.84	peak
4	2500.000	58.08	-17.95	40.13	74.00	-33.87	peak



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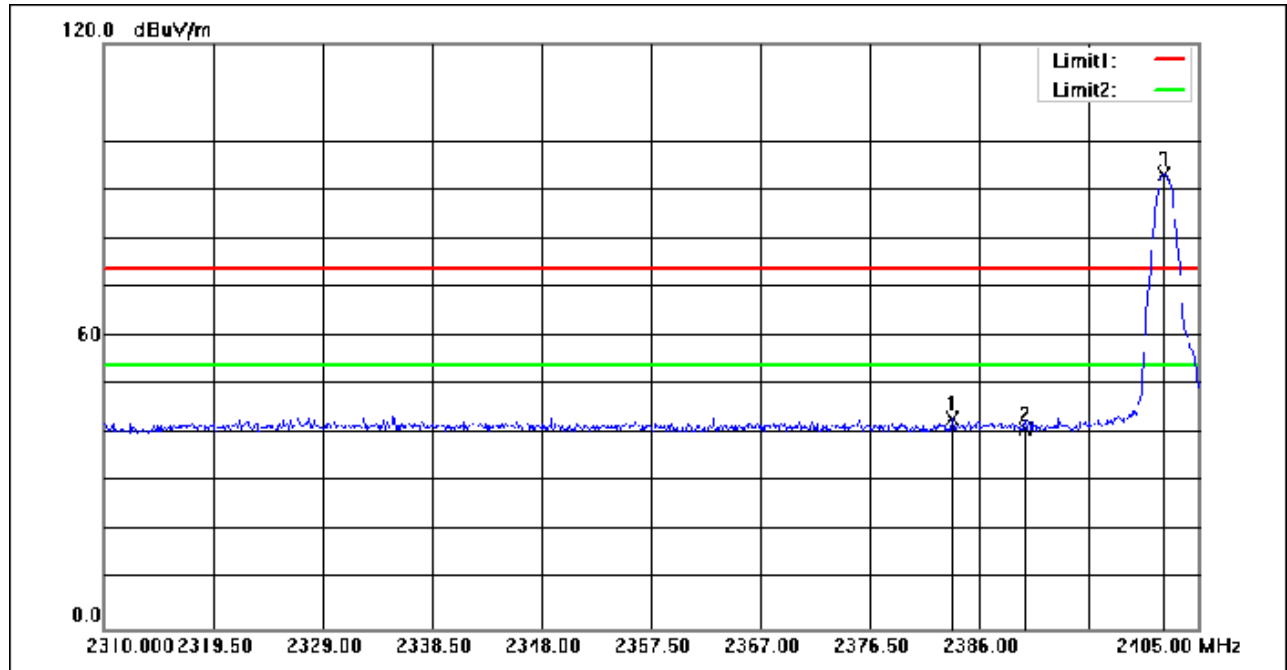
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Report No.: KSCR230100000501

Page: 27 of 125

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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: Low; Data Rate: 1Mbps



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2383.625	61.85	-18.72	43.13	74.00	-30.87	peak
2	2390.000	59.65	-18.67	40.98	74.00	-33.02	peak
3	2402.055	111.84	-18.61	93.23	74.00	19.23	peak



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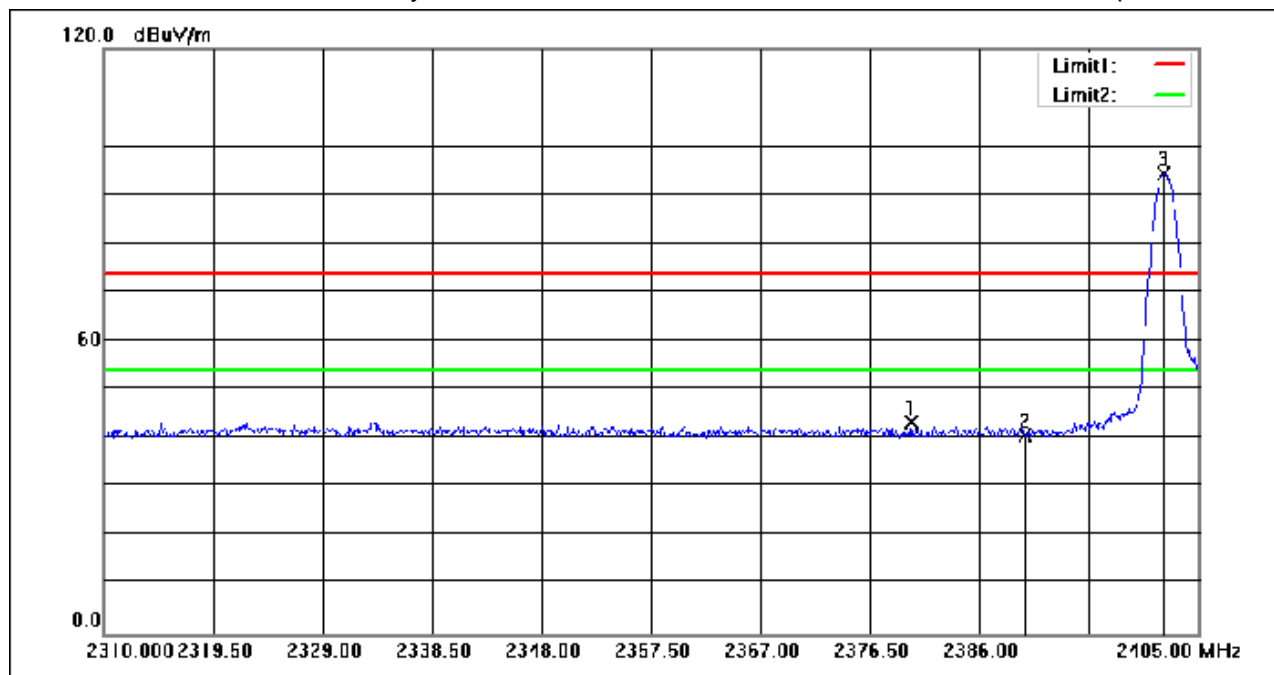
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230100000501

Page: 28 of 125

Test Mode: 00; Polarity: Vertical; Modulation: GFSK; Channel: Low; Data Rate: 1Mbps



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2380.110	62.22	-18.74	43.48	74.00	-30.52	peak
2	2390.000	59.43	-18.67	40.76	74.00	-33.24	peak
3	2402.055	113.09	-18.61	94.48	74.00	20.48	peak



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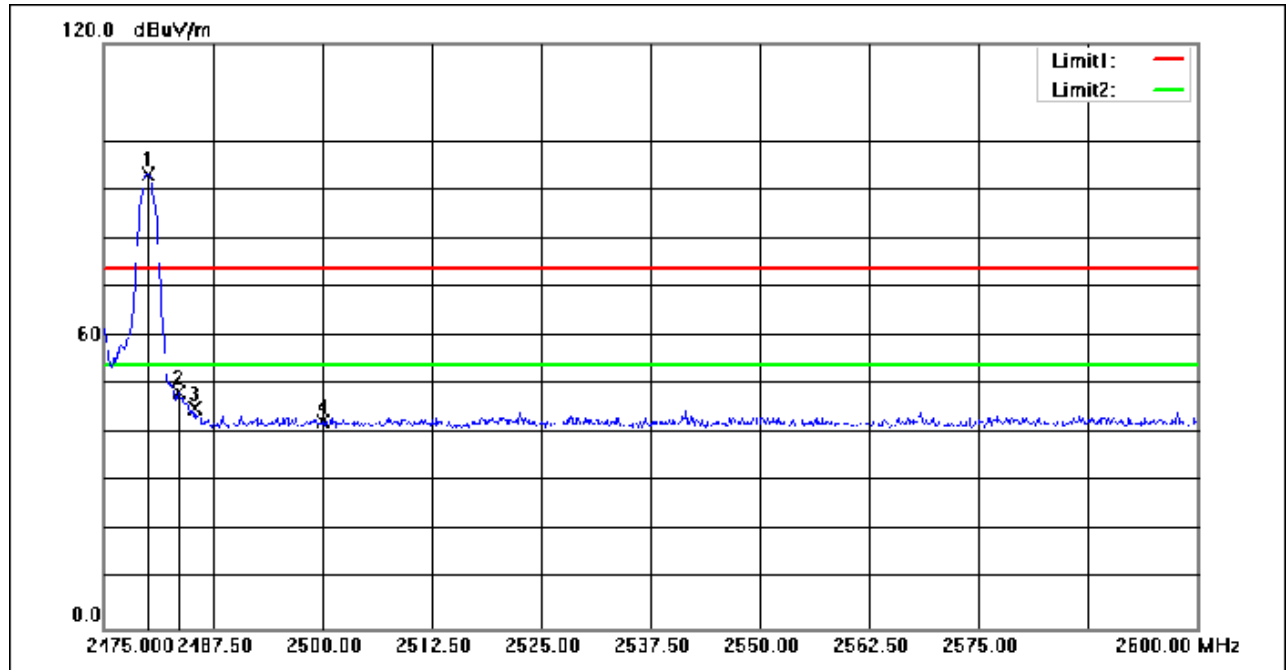
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Report No.: KSCR230100000501

Page: 29 of 125

Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: High; Data Rate: 1Mbps



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.000	111.32	-18.17	93.15	74.00	19.15	peak
2	2483.500	66.58	-18.13	48.45	74.00	-25.55	peak
3	2485.375	63.27	-18.11	45.16	74.00	-28.84	peak
4	2500.000	60.32	-17.95	42.37	74.00	-31.63	peak



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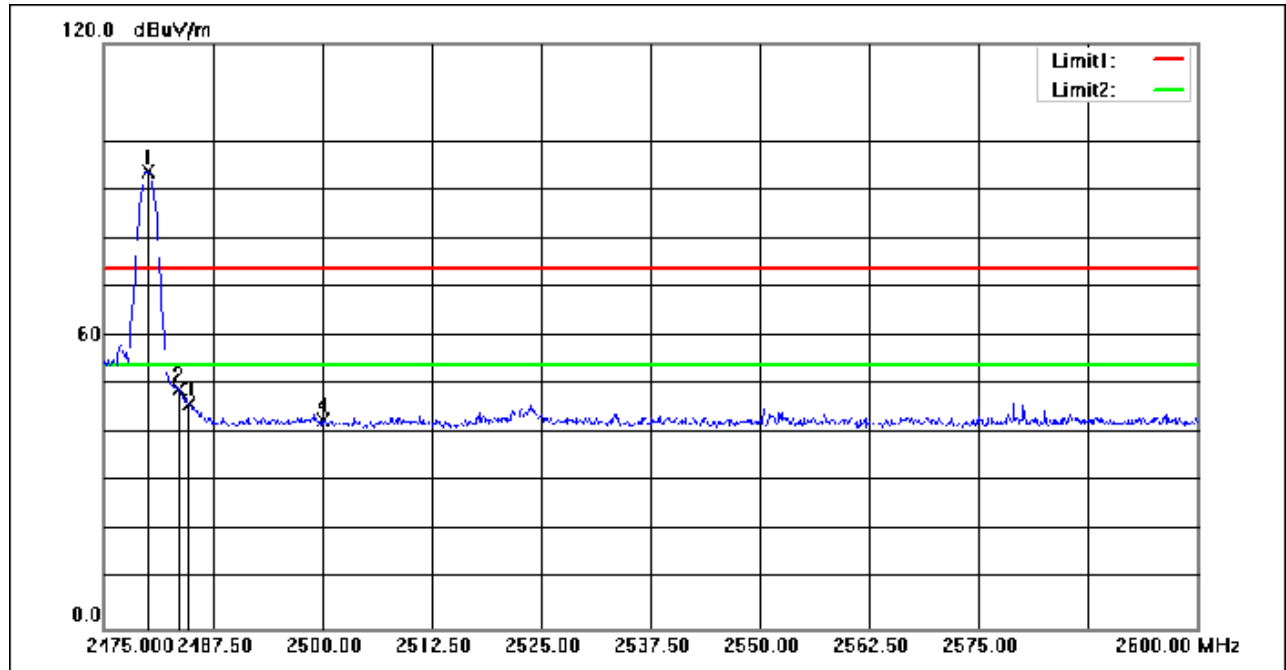
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230100000501

Page: 30 of 125

Test Mode: 00; Polarity: Vertical; Modulation: GFSK; Channel: High; Data Rate: 1Mbps



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.000	112.06	-18.17	93.89	74.00	19.89	peak
2	2483.500	67.04	-18.13	48.91	74.00	-25.09	peak
3	2484.750	64.30	-18.12	46.18	74.00	-27.82	peak
4	2500.000	60.65	-17.95	42.70	74.00	-31.30	peak



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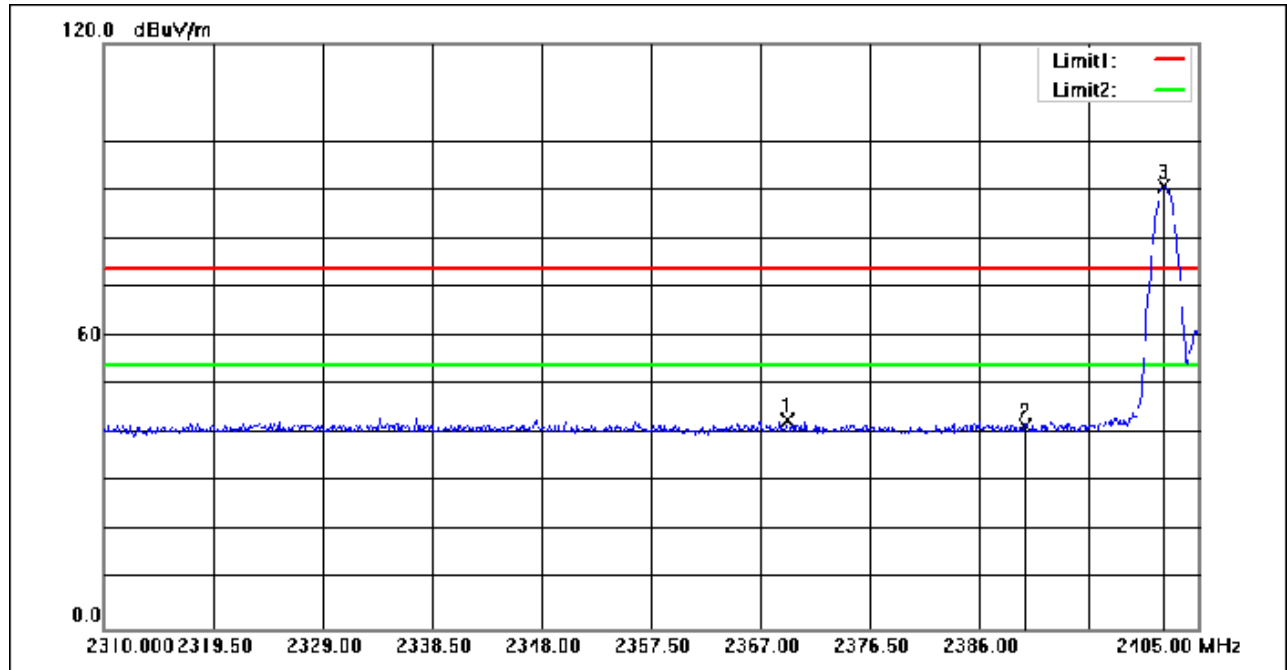
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Report No.: KSCR230100000501

Page: 31 of 125

Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: Low; Data Rate: 2Mbps



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2369.280	61.50	-18.82	42.68	74.00	-31.32	peak
2	2390.000	60.31	-18.67	41.64	74.00	-32.36	peak
3	2402.055	109.37	-18.61	90.76	74.00	16.76	peak



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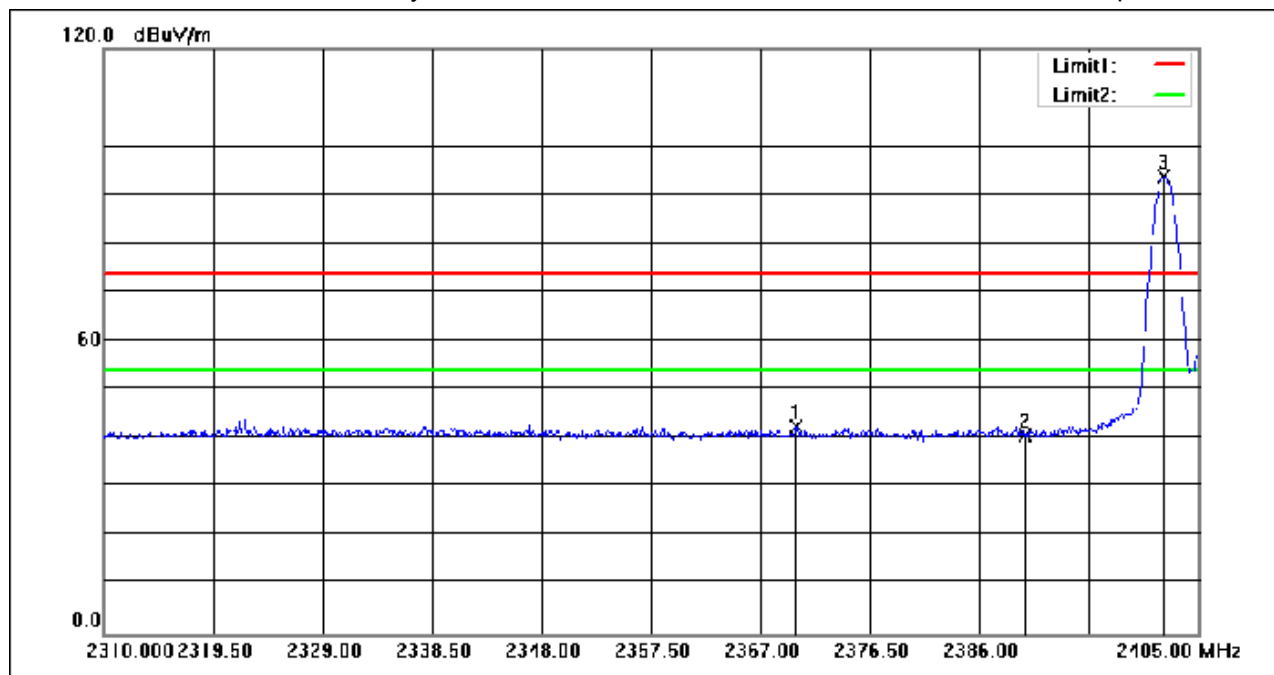
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Report No.: KSCR230100000501

Page: 32 of 125

Test Mode: 00; Polarity: Vertical; Modulation: GFSK; Channel: Low; Data Rate: 2Mbps



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2370.135	61.39	-18.80	42.59	74.00	-31.41	peak
2	2390.000	59.32	-18.67	40.65	74.00	-33.35	peak
3	2402.055	112.42	-18.61	93.81	74.00	19.81	peak



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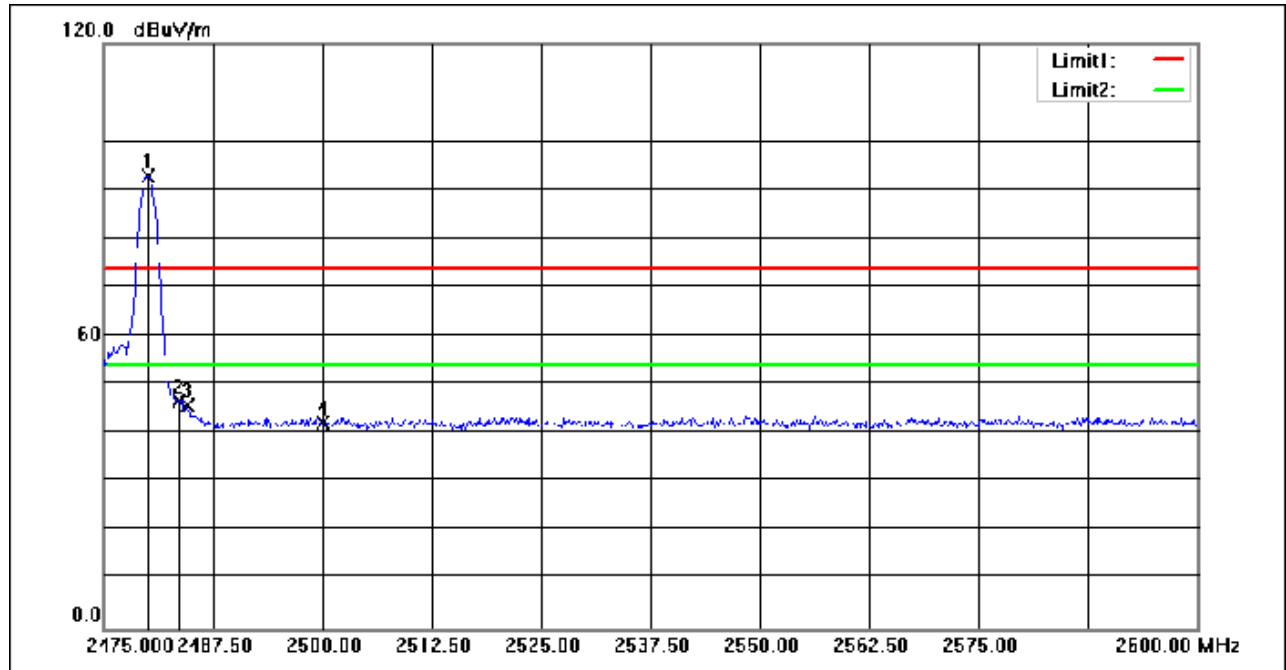
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Report No.: KSCR230100000501

Page: 33 of 125

Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: High; Data Rate: 2Mbps



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.000	110.94	-18.17	92.77	74.00	18.77	peak
2	2483.500	64.82	-18.13	46.69	74.00	-27.31	peak
3	2484.500	63.91	-18.12	45.79	74.00	-28.21	peak
4	2500.000	60.13	-17.95	42.18	74.00	-31.82	peak



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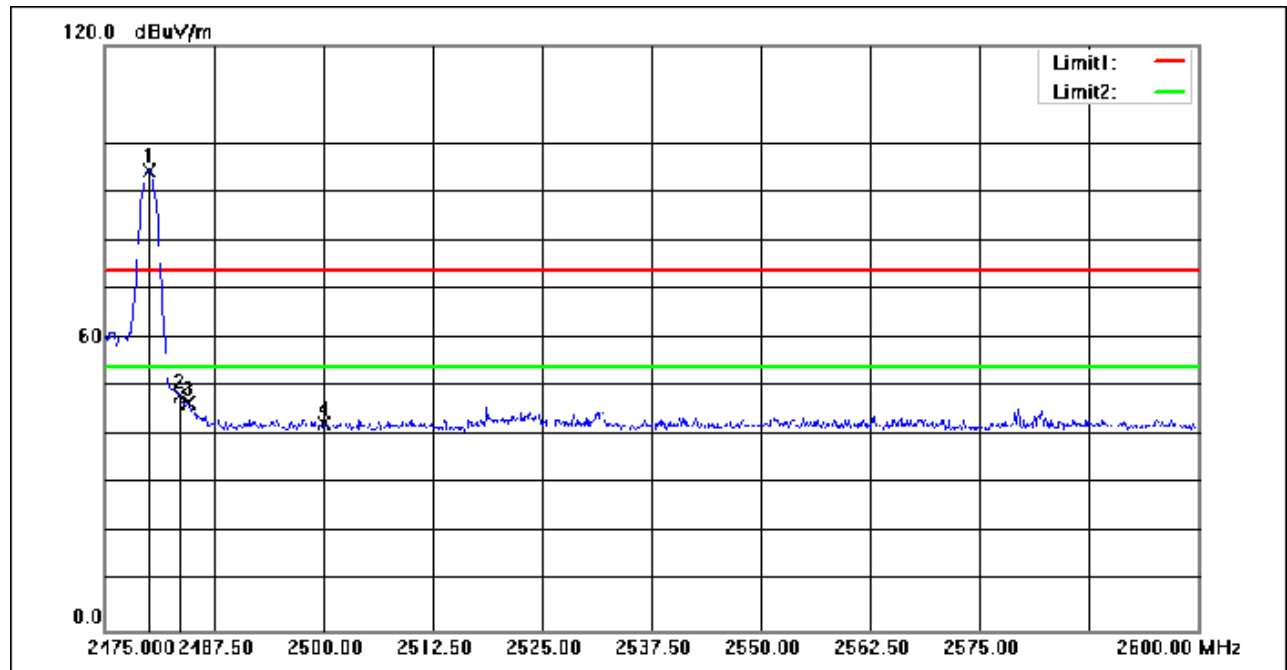
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Page: 34 of 125

Test Mode: 00; Polarity: Vertical; Modulation: GFSK; Channel: High; Data Rate: 2Mbps



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.000	112.55	-18.17	94.38	74.00	20.38	peak
2	2483.500	66.37	-18.13	48.24	74.00	-25.76	peak
3	2484.625	64.87	-18.12	46.75	74.00	-27.25	peak
4	2500.000	60.48	-17.95	42.53	74.00	-31.47	peak



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Report No.: KSCR230100000501

Page: 35 of 125

7.7 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

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 24.5 °C

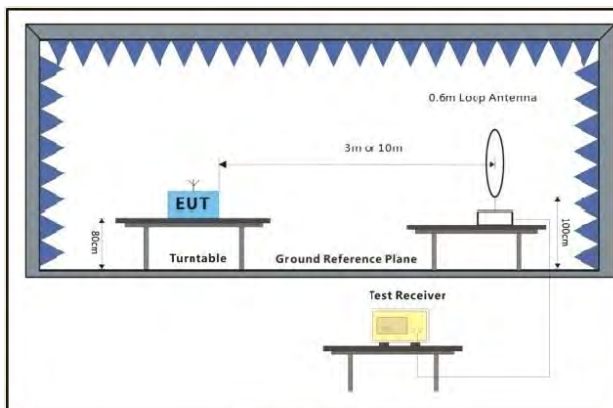
Humidity: 26.2 % RH

Atmospheric Pressure: 1010 mbar

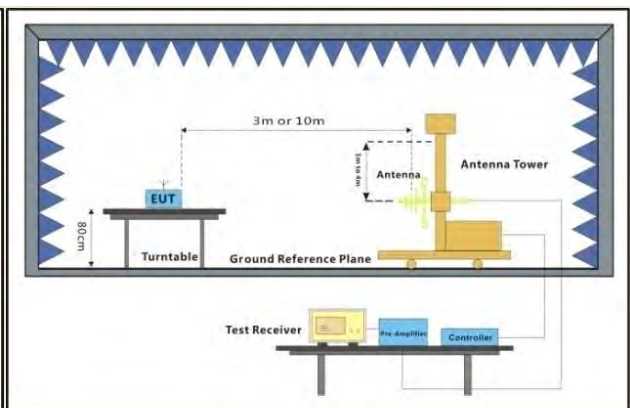
7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.7.3 Test Setup Diagram



Below 30MHz



30MHz-1GHz



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Report No.: KSCR230100000501

Page: 36 of 125

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.



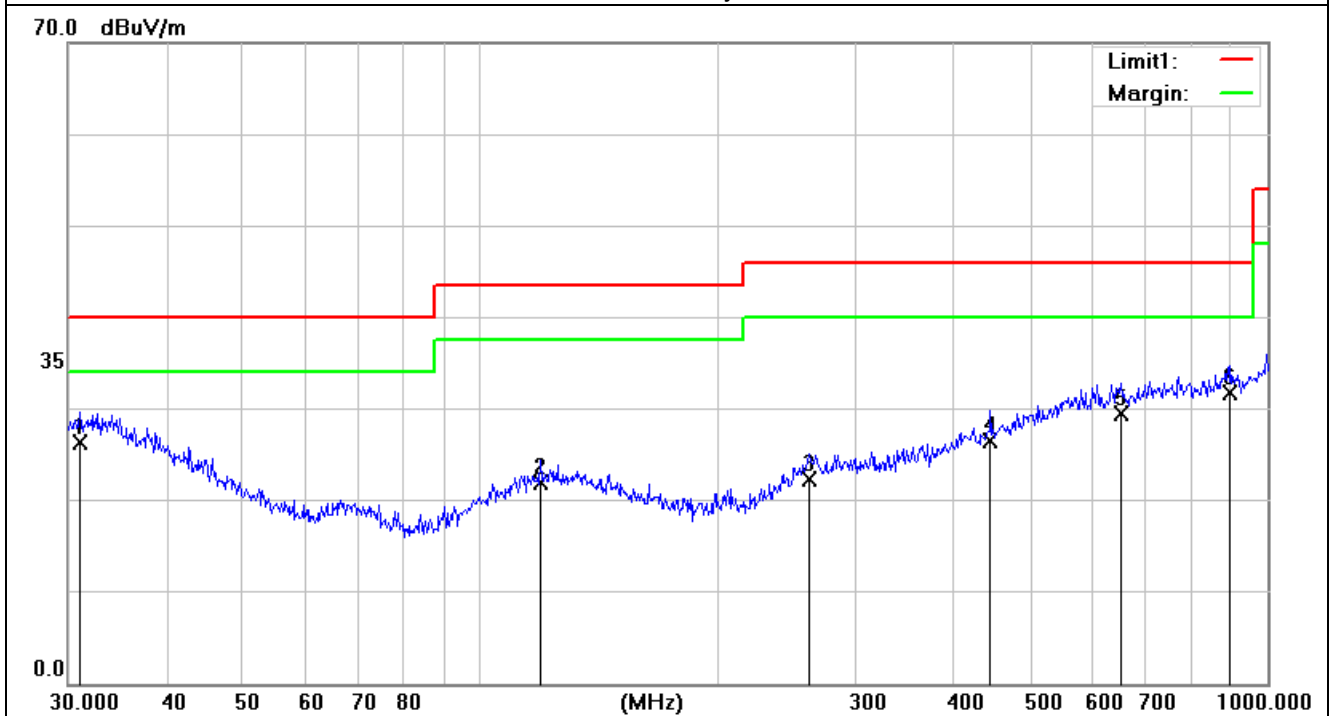
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Test Mode: 00; Polarity: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	31.0706	1.25	25.12	26.37	40.00	-13.63	100	283	QP
2	119.4361	2.53	19.35	21.88	43.50	-21.62	200	98	QP
3	261.9753	1.35	21.04	22.39	46.00	-23.61	184	341	QP
4	444.8514	2.30	24.15	26.45	46.00	-19.55	200	154	QP
5	651.9417	1.87	27.60	29.47	46.00	-16.53	201	9	QP
6	896.9965	2.05	29.63	31.68	46.00	-14.32	100	142	QP



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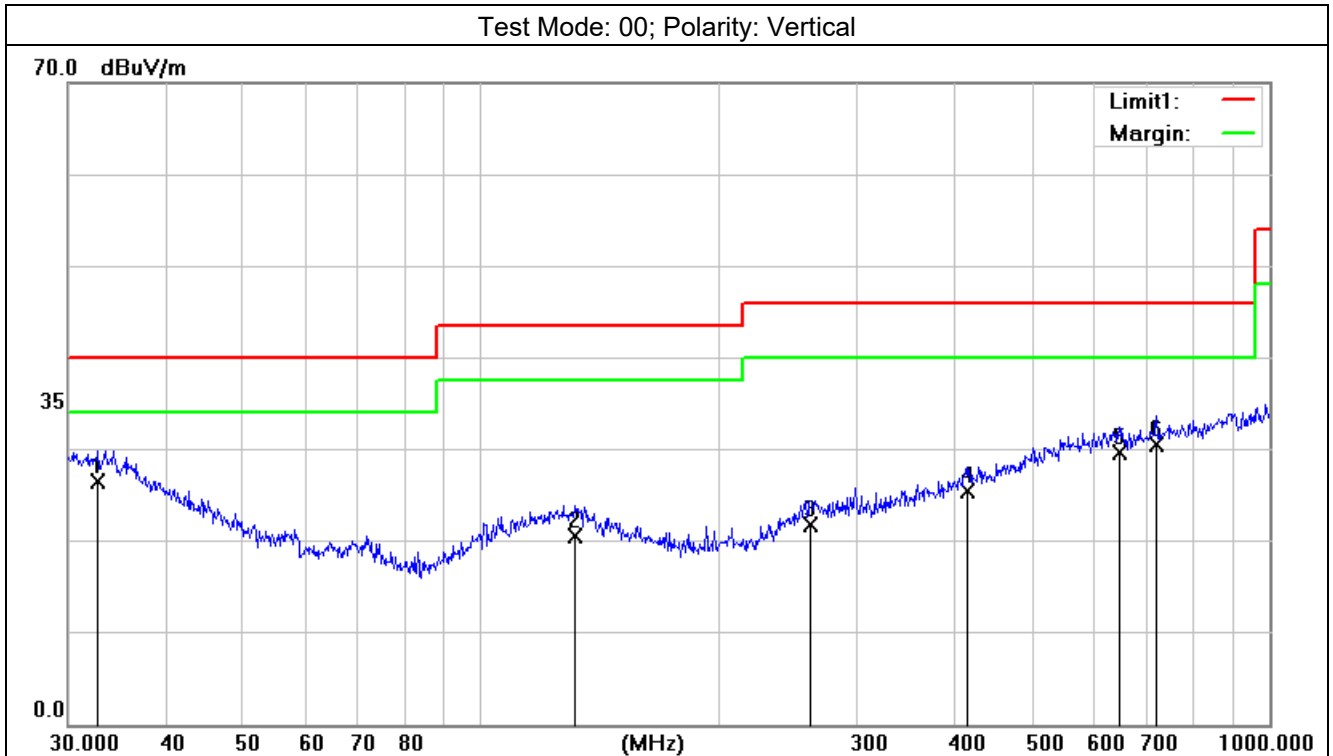
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No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	32.7486	1.37	25.06	26.43	40.00	-13.57	100	351	QP
2	131.7577	1.28	19.30	20.58	43.50	-22.92	101	354	QP
3	261.9753	0.70	21.04	21.74	46.00	-24.26	200	238	QP
4	413.2706	1.51	23.93	25.44	46.00	-20.56	100	161	QP
5	645.1195	1.88	27.80	29.68	46.00	-16.32	115	190	QP
6	719.1995	2.58	27.96	30.54	46.00	-15.46	101	234	QP



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Report No.: KSCR230100000501

Page: 39 of 125

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

Measurement Distance: 3m

Limit:

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

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 24.5 °C

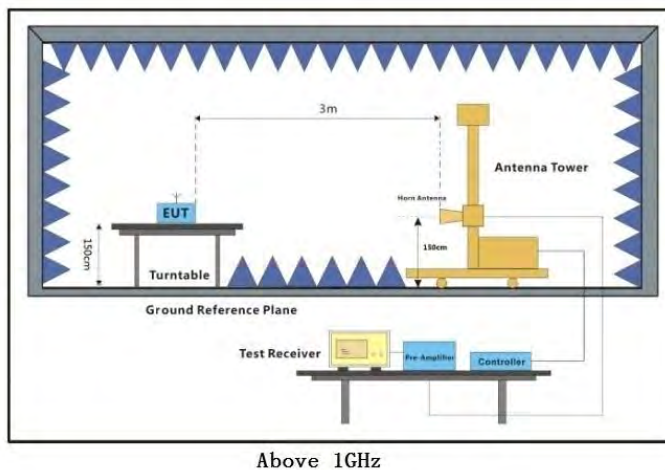
Humidity: 26.2 % RH

Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.8.3 Test Setup Diagram



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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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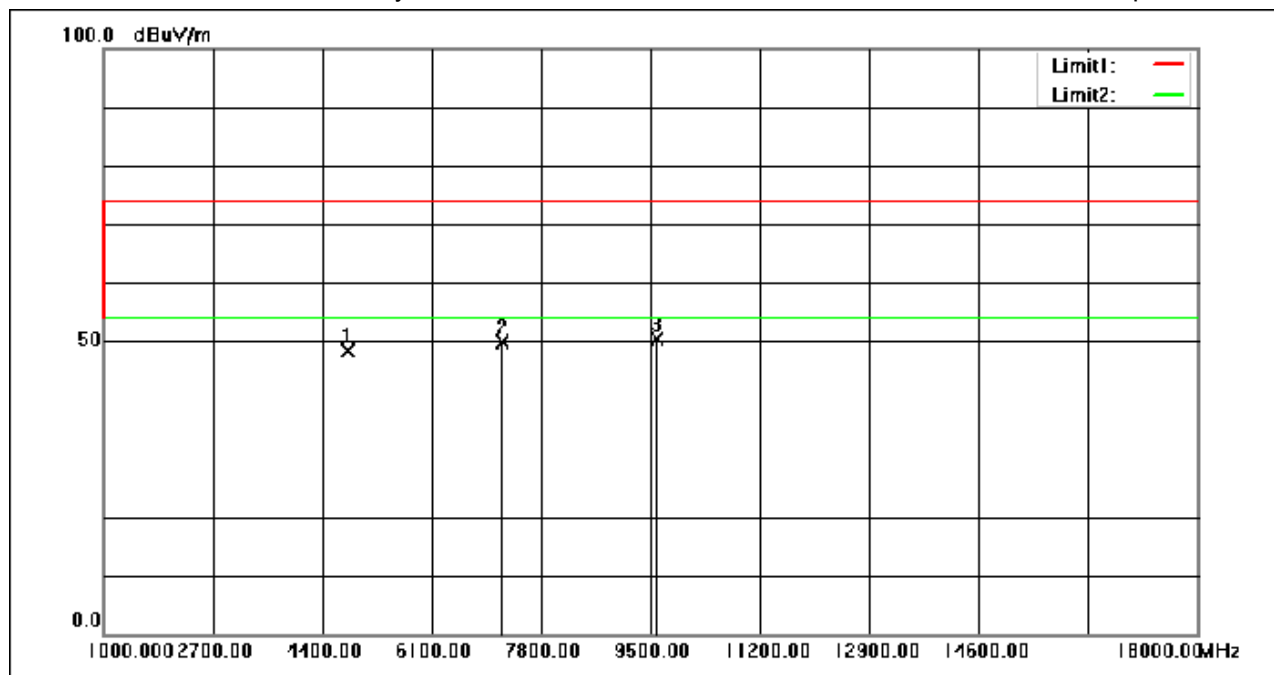
Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230100000501

Page: 41 of 125

Left Earphone

Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low; Data Rate:1Mbps



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804.000	57.29	-8.86	48.43	74.00	-25.57	peak
2	7206.000	55.70	-5.89	49.81	74.00	-24.19	peak
3	9608.000	51.63	-1.26	50.37	74.00	-23.63	peak



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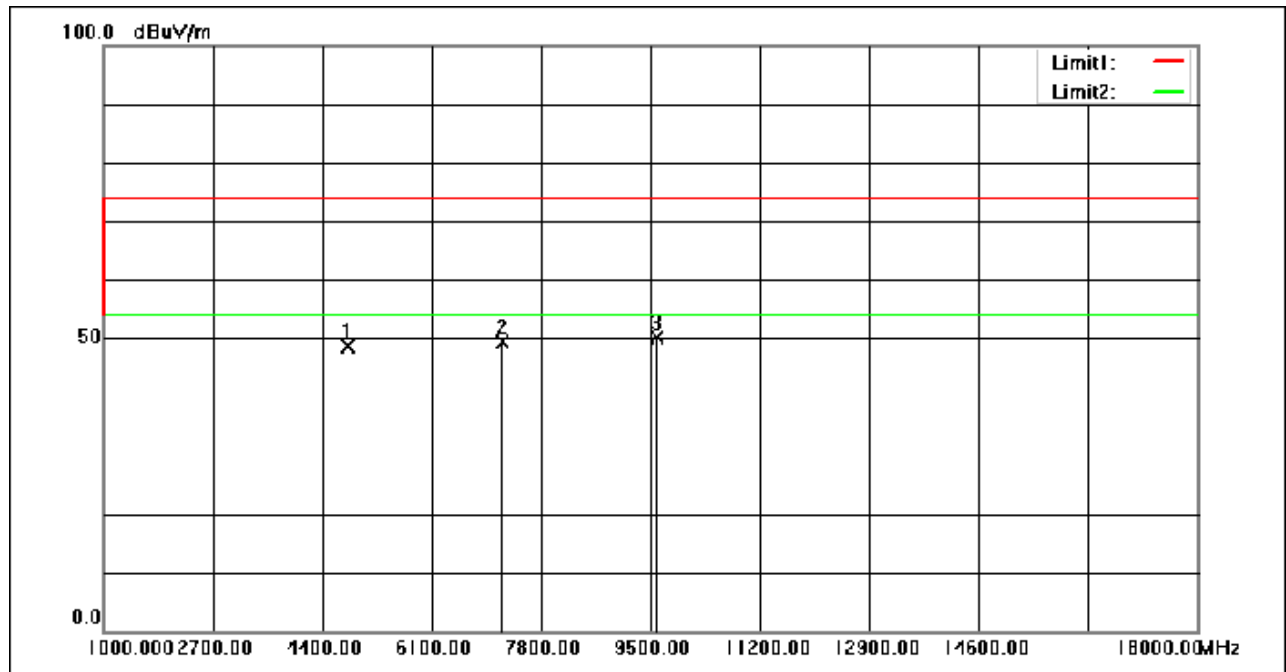
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230100000501

Page: 42 of 125

Test Mode: 00; Polarity: Vertical; Modulation: GFSK; Channel: Low; Data Rate: 1Mbps



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804.000	57.41	-8.86	48.55	74.00	-25.45	peak
2	7206.000	55.27	-5.89	49.38	74.00	-24.62	peak
3	9608.000	51.42	-1.26	50.16	74.00	-23.84	peak



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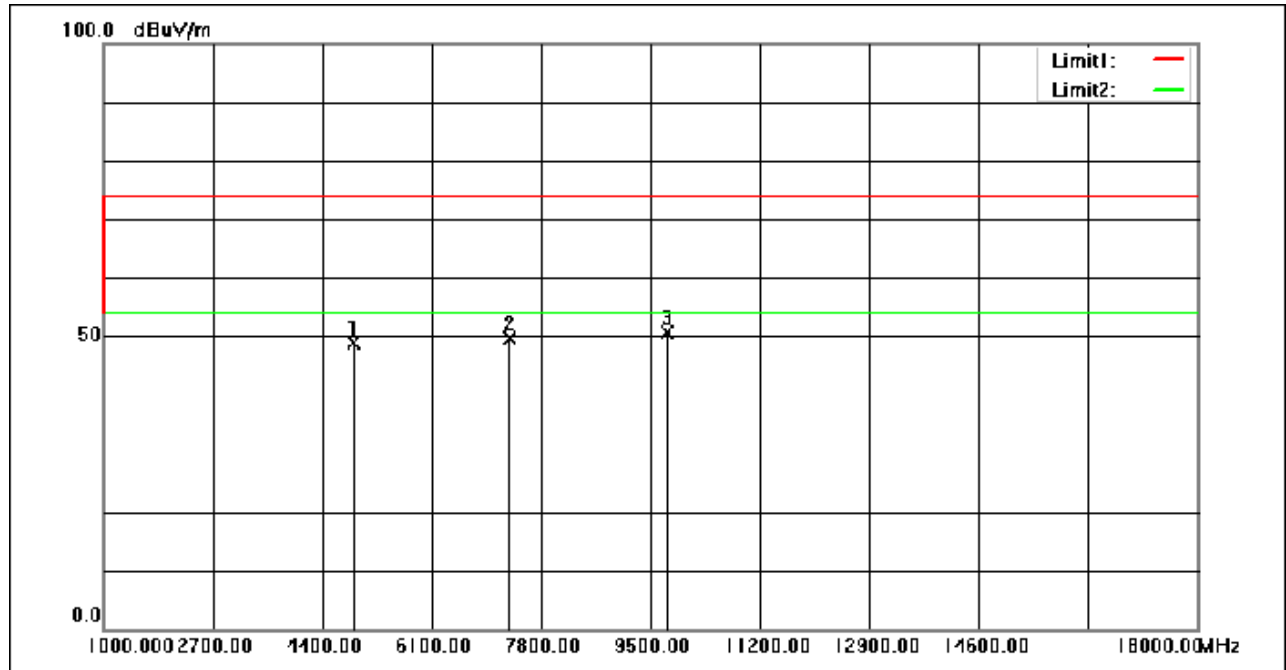
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Report No.: KSCR230100000501

Page: 43 of 125

Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: middle; Data Rate: 1Mbps



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4880.000	57.40	-8.60	48.80	74.00	-25.20	peak
2	7320.000	55.29	-5.77	49.52	74.00	-24.48	peak
3	9760.000	52.18	-1.45	50.73	74.00	-23.27	peak



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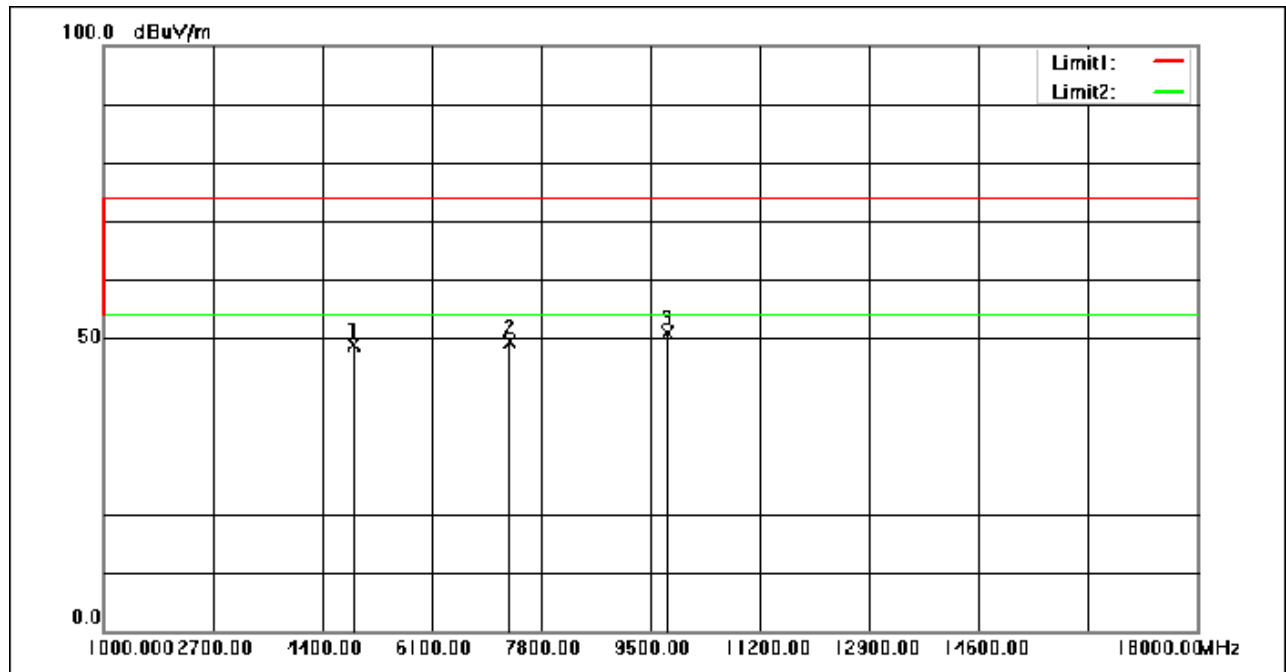
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230100000501

Page: 44 of 125

Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:middle; Data Rate:1Mbps



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4880.000	57.40	-8.60	48.80	74.00	-25.20	peak
2	7320.000	55.23	-5.77	49.46	74.00	-24.54	peak
3	9760.000	52.34	-1.45	50.89	74.00	-23.11	peak



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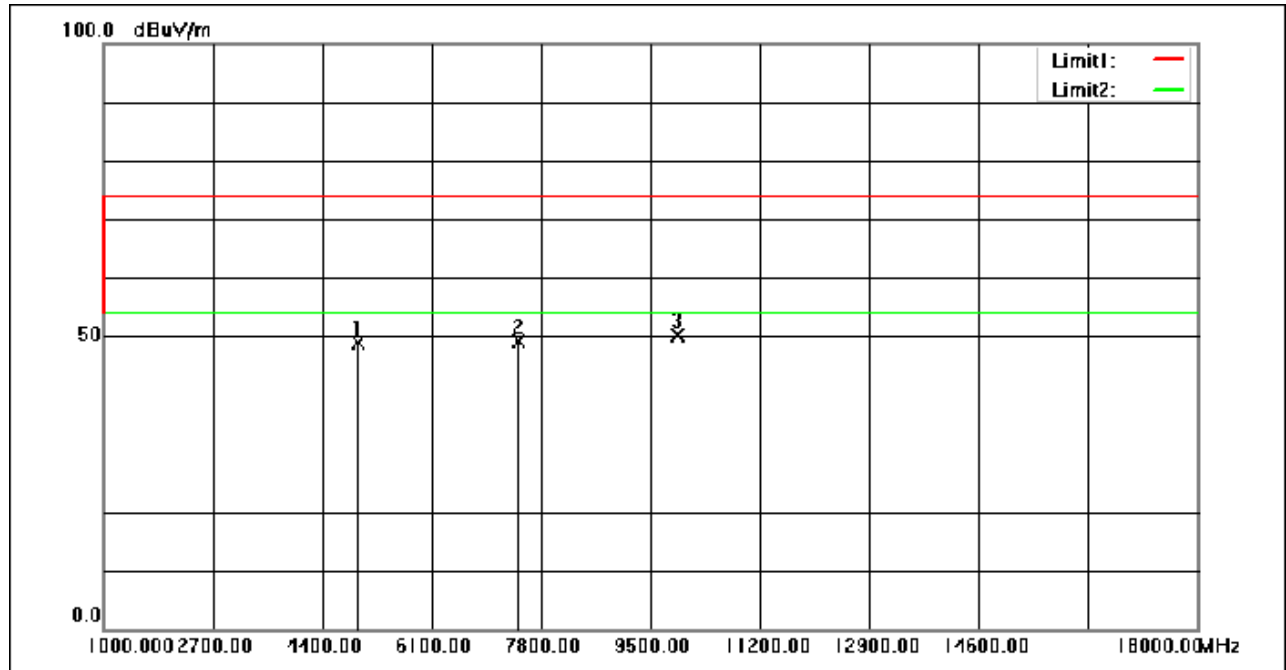
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230100000501

Page: 45 of 125

Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: High; Data Rate: 1Mbps



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960.000	57.08	-8.32	48.76	74.00	-25.24	peak
2	7440.000	54.64	-5.63	49.01	74.00	-24.99	peak
3	9920.000	50.97	-0.94	50.03	74.00	-23.97	peak



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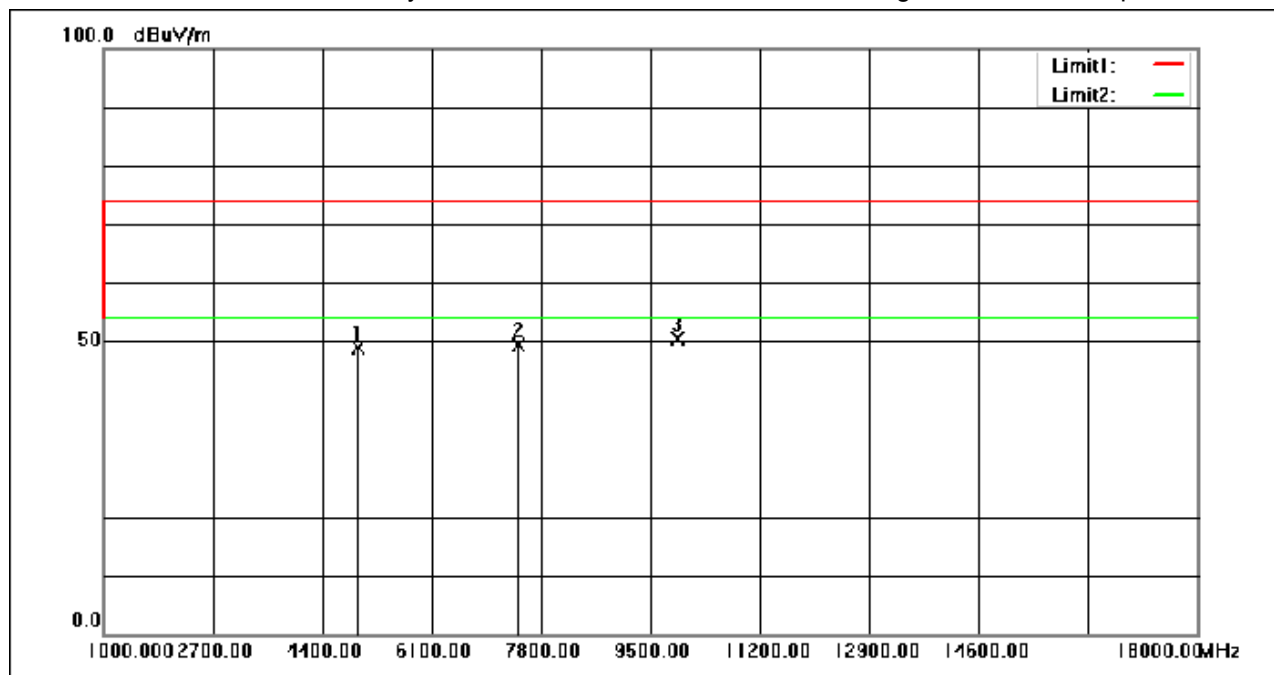
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Report No.: KSCR230100000501

Page: 46 of 125

Test Mode: 00; Polarity: Vertical; Modulation: GFSK; Channel: High; Data Rate: 1Mbps



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960.000	57.27	-8.32	48.95	74.00	-25.05	peak
2	7440.000	54.99	-5.63	49.36	74.00	-24.64	peak
3	9920.000	51.37	-0.94	50.43	74.00	-23.57	peak



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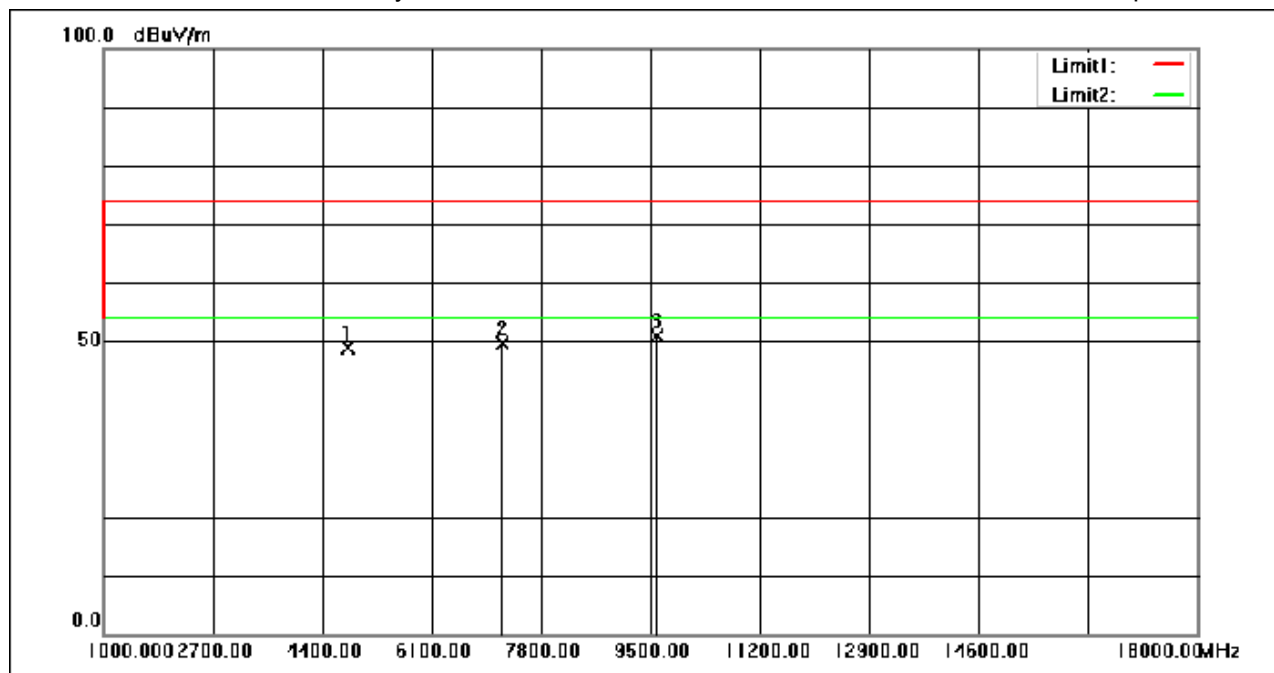
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Report No.: KSCR230100000501

Page: 47 of 125

Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low; Data Rate:2Mbps



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804.000	57.73	-8.86	48.87	74.00	-25.13	peak
2	7206.000	55.54	-5.89	49.65	74.00	-24.35	peak
3	9608.000	52.19	-1.26	50.93	74.00	-23.07	peak



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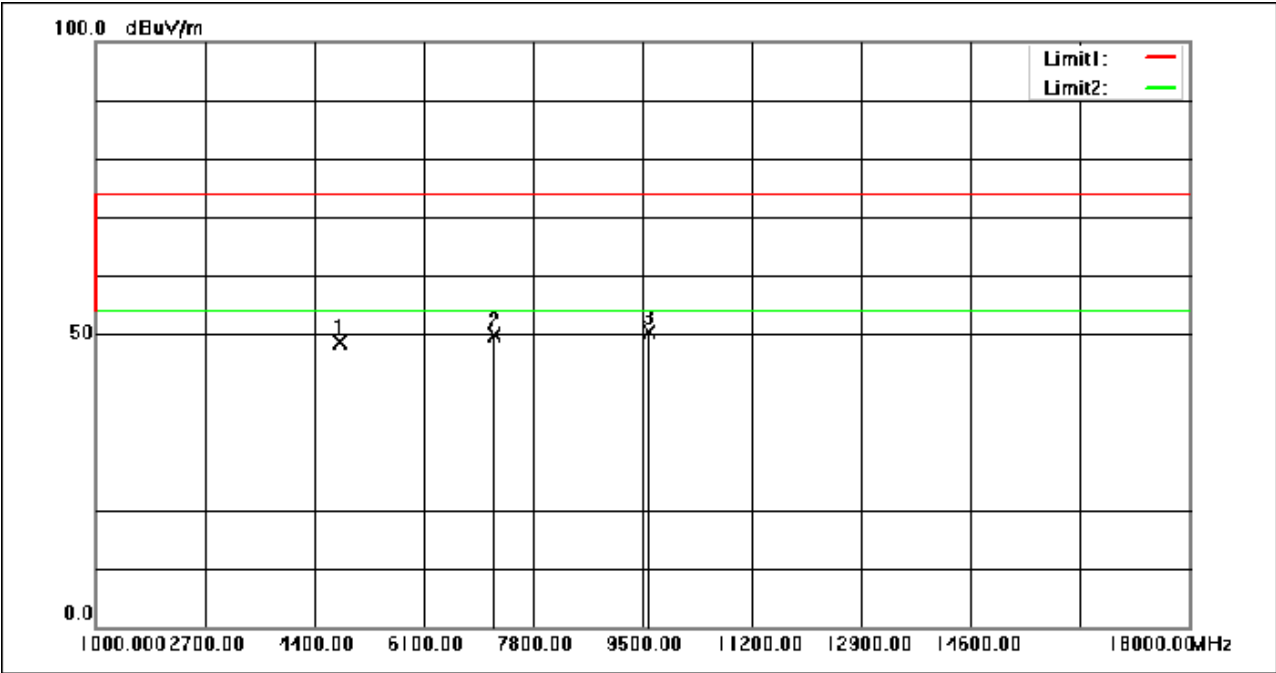
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230100000501

Page: 48 of 125

Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low; Data Rate:2Mbps



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804.000	57.57	-8.86	48.71	74.00	-25.29	peak
2	7206.000	55.77	-5.89	49.88	74.00	-24.12	peak
3	9608.000	51.73	-1.26	50.47	74.00	-23.53	peak



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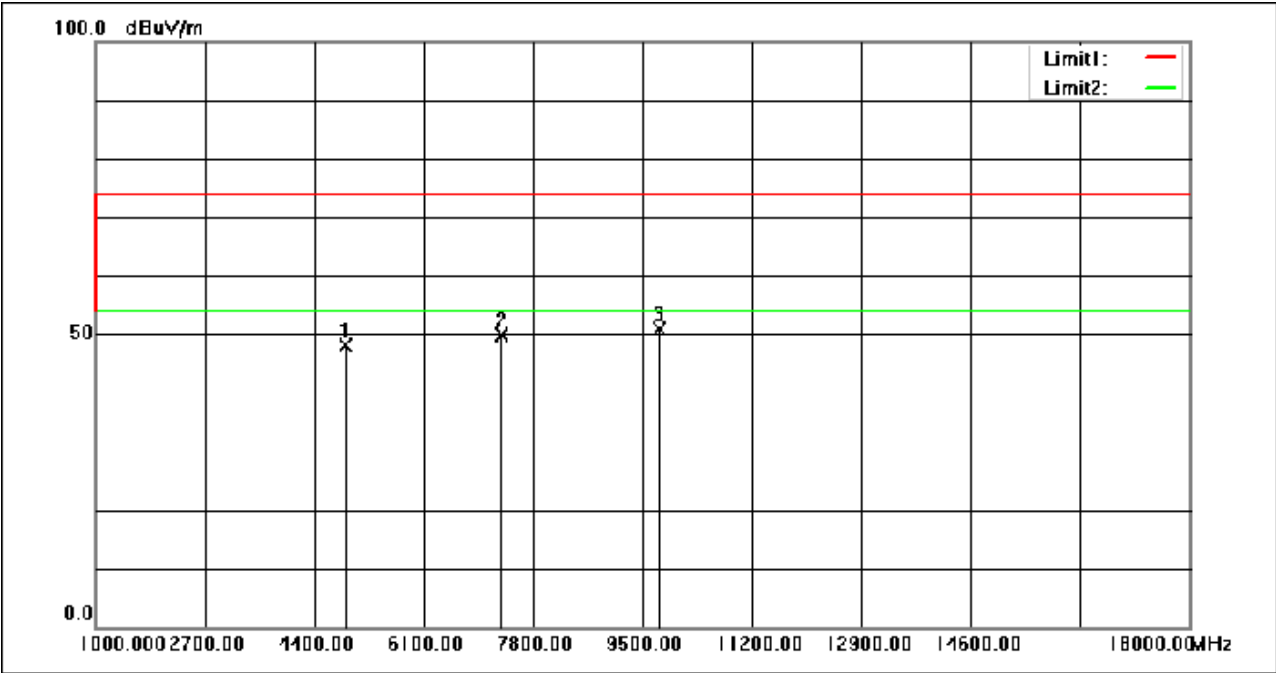
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230100000501

Page: 49 of 125

Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:middle; Data Rate:2Mbps



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4880.000	56.72	-8.60	48.12	74.00	-25.88	peak
2	7320.000	55.57	-5.77	49.80	74.00	-24.20	peak
3	9760.000	52.32	-1.45	50.87	74.00	-23.13	peak



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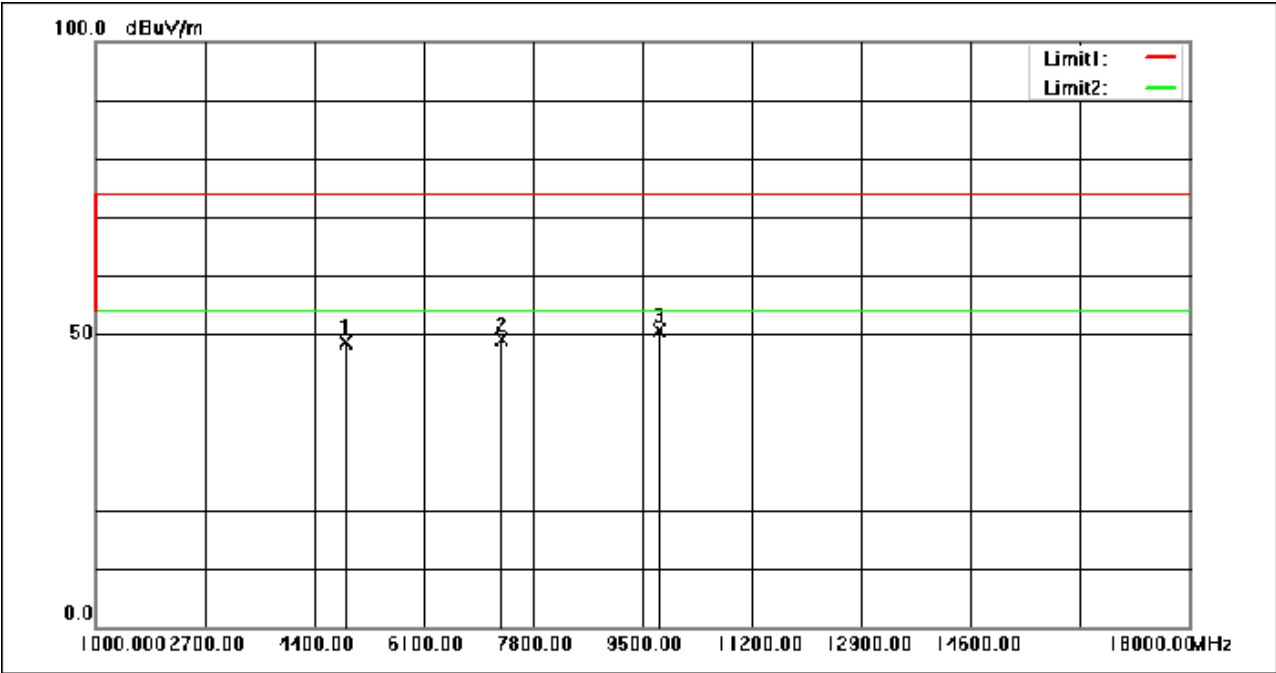
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230100000501

Page: 50 of 125

Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:middle; Data Rate:2Mbps



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4880.000	57.17	-8.60	48.57	74.00	-25.43	peak
2	7320.000	54.82	-5.77	49.05	74.00	-24.95	peak
3	9760.000	52.11	-1.45	50.66	74.00	-23.34	peak



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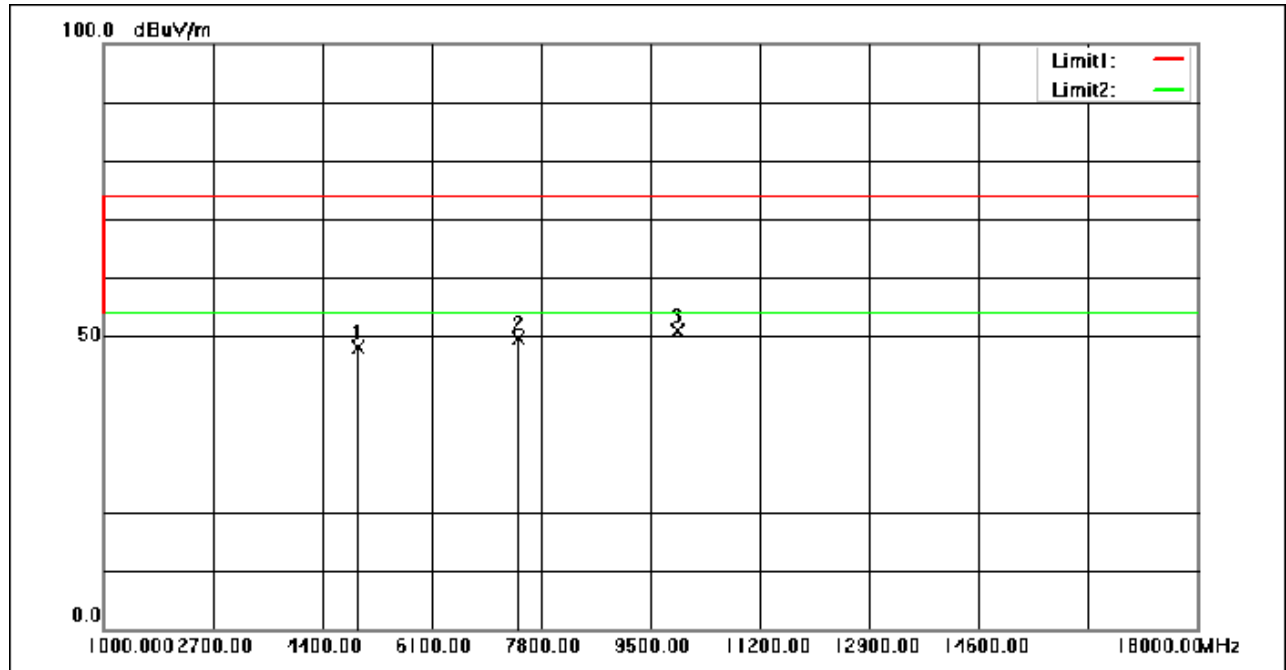
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230100000501

Page: 51 of 125

Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High; Data Rate:2Mbps



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960.000	56.49	-8.32	48.17	74.00	-25.83	peak
2	7440.000	55.15	-5.63	49.52	74.00	-24.48	peak
3	9920.000	51.93	-0.94	50.99	74.00	-23.01	peak



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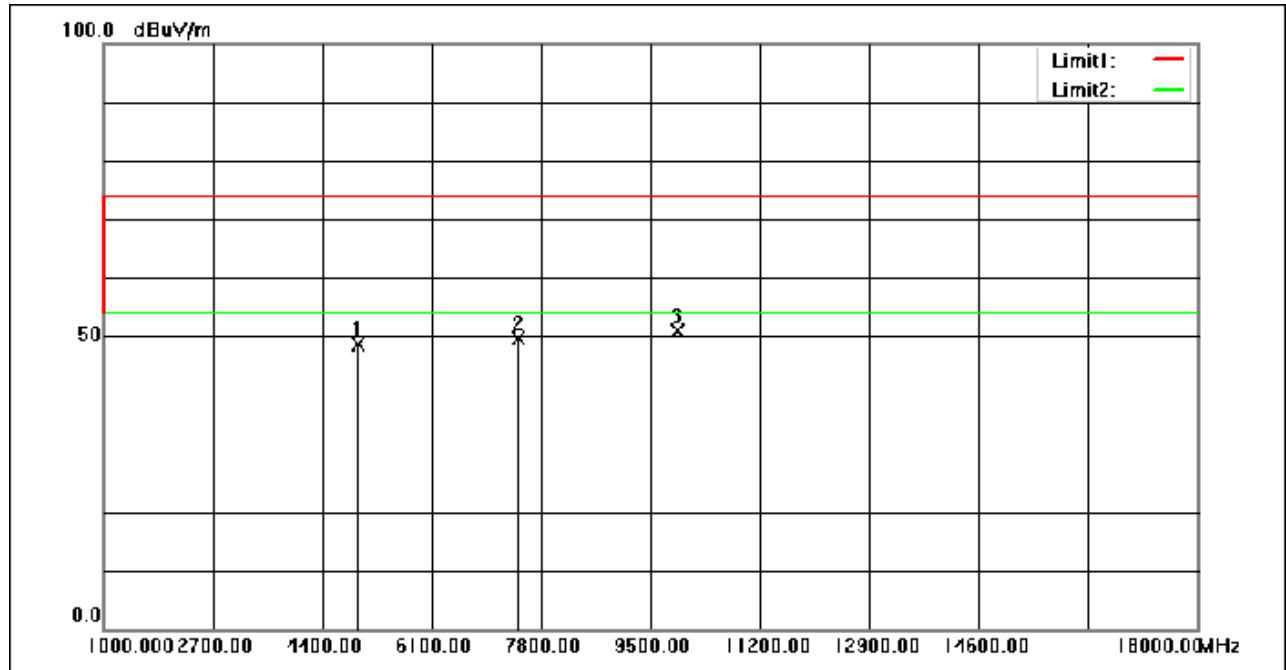
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Report No.: KSCR230100000501

Page: 52 of 125

Test Mode: 00; Polarity: Vertical; Modulation: GFSK; Channel: High; Data Rate: 2Mbps



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960.000	57.07	-8.32	48.75	74.00	-25.25	peak
2	7440.000	55.21	-5.63	49.58	74.00	-24.42	peak
3	9920.000	51.71	-0.94	50.77	74.00	-23.23	peak



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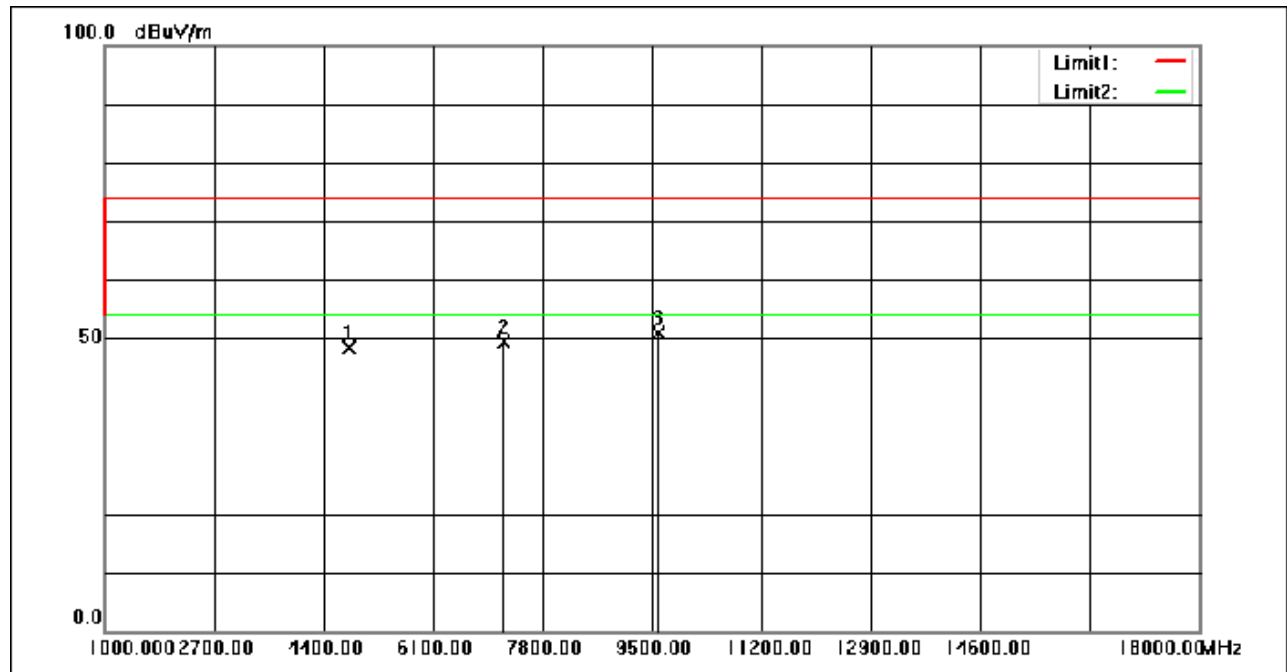
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Report No.: KSCR230100000501

Page: 53 of 125

Right Earphone

Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low; Data Rate:1Mbps



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804.000	57.12	-8.86	48.26	74.00	-25.74	peak
2	7206.000	55.29	-5.89	49.40	74.00	-24.60	peak
3	9608.000	52.19	-1.26	50.93	74.00	-23.07	peak



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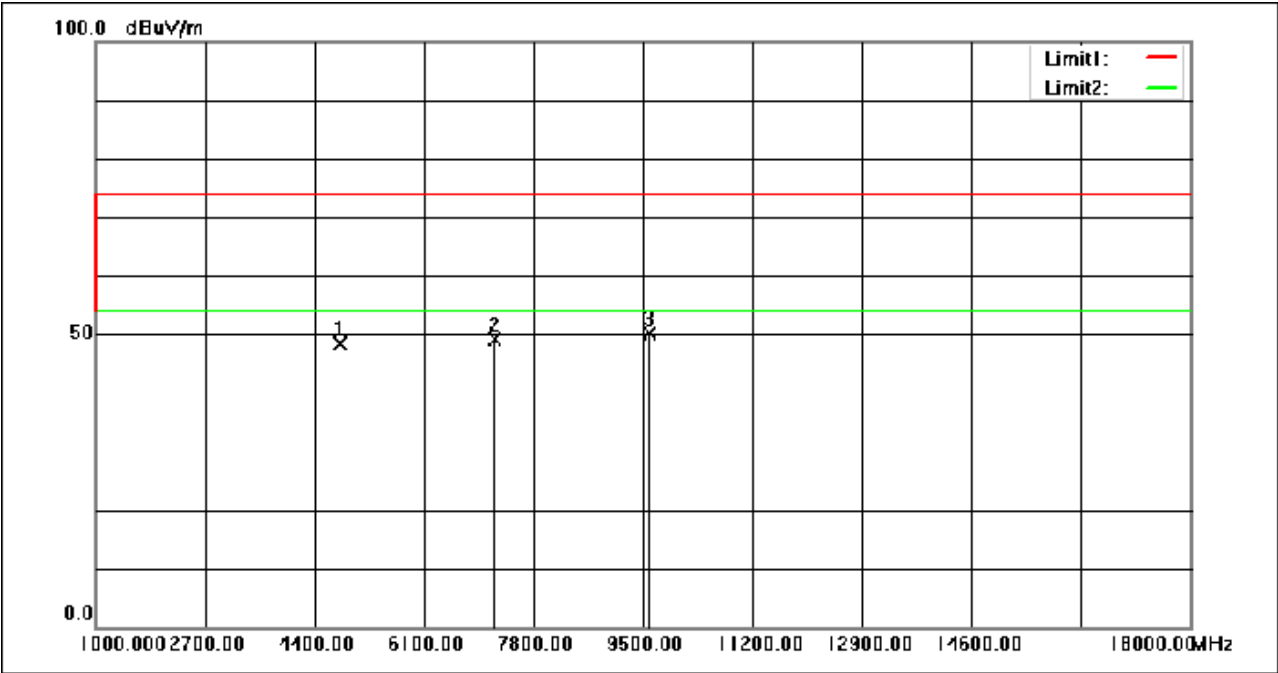
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230100000501

Page: 54 of 125

Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low; Data Rate:1Mbps



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804.000	57.30	-8.86	48.44	74.00	-25.56	peak
2	7206.000	55.12	-5.89	49.23	74.00	-24.77	peak
3	9608.000	51.47	-1.26	50.21	74.00	-23.79	peak



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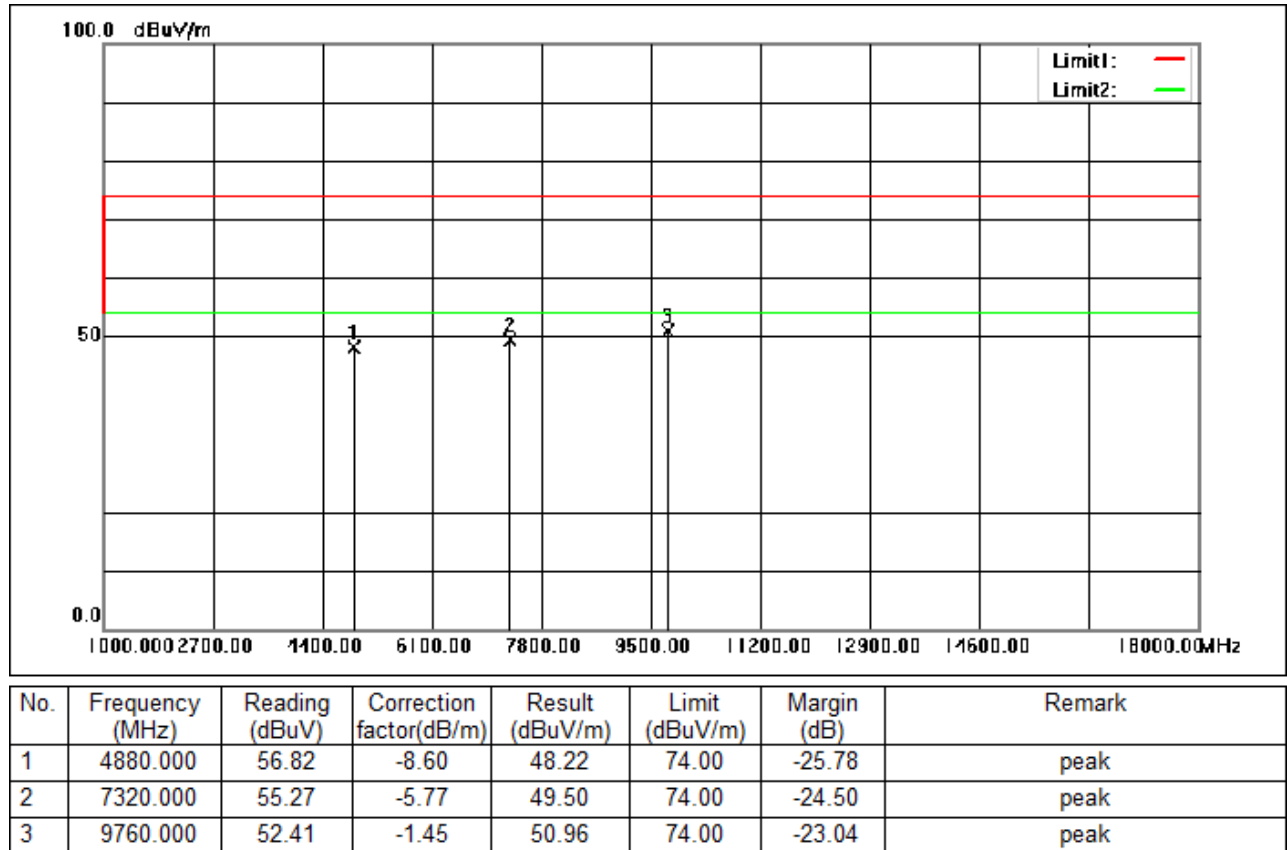
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Report No.: KSCR230100000501

Page: 55 of 125

Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: middle; Data Rate: 1Mbps



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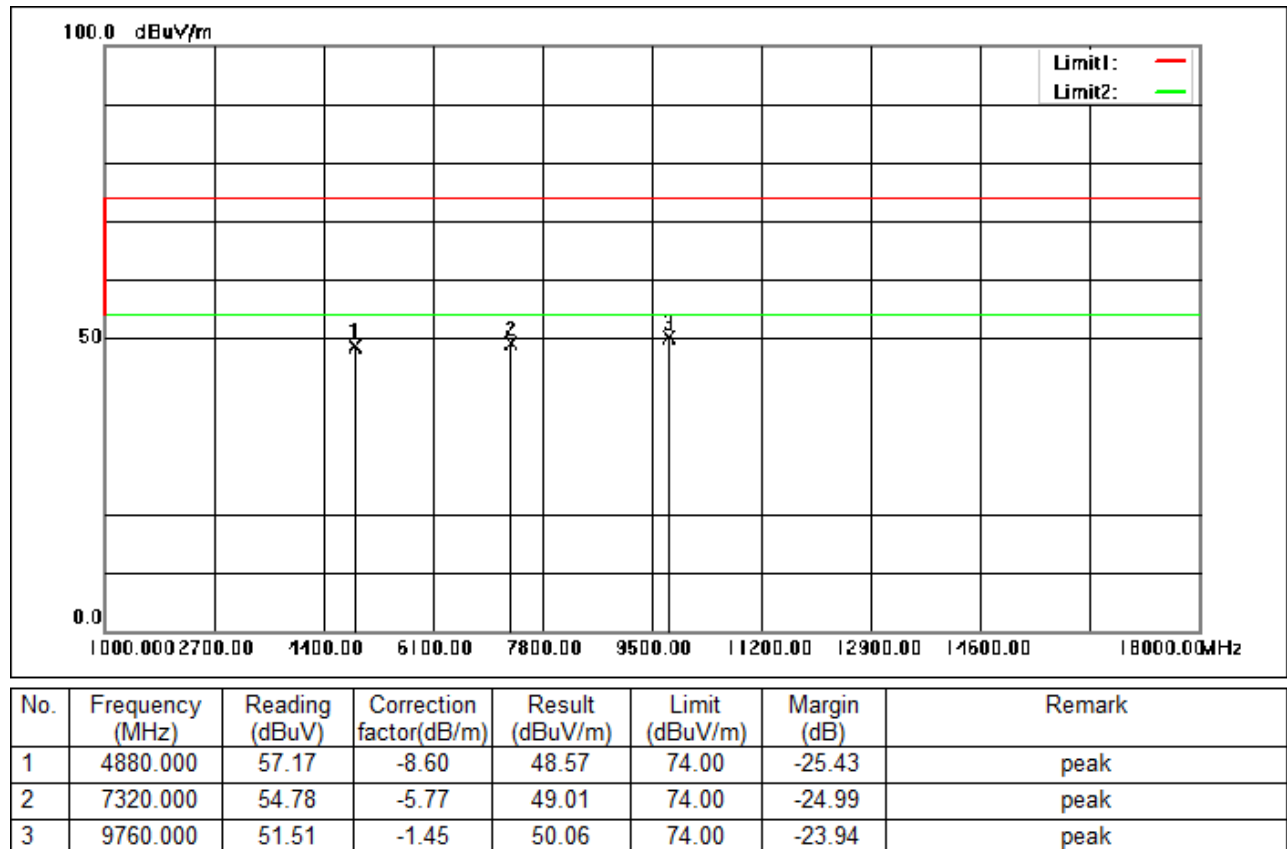
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Report No.: KSCR230100000501

Page: 56 of 125

Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:middle; Data Rate:1Mbps



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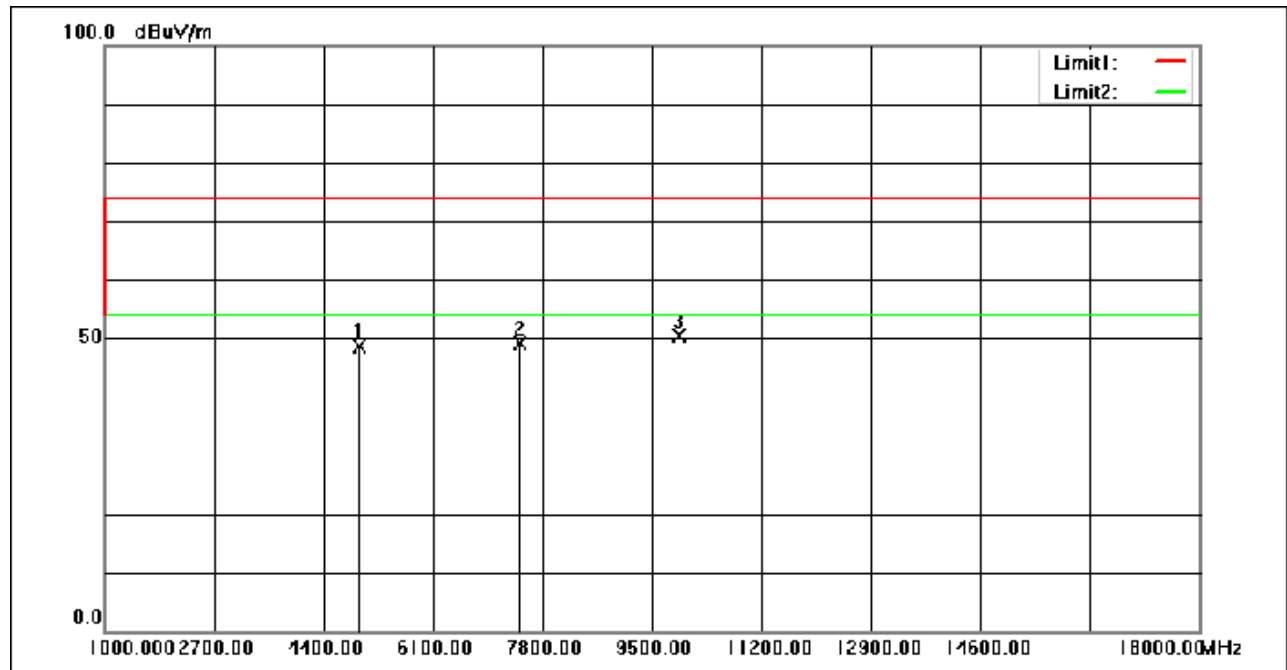
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Report No.: KSCR230100000501

Page: 57 of 125

Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High; Data Rate:1Mbps



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960.000	56.95	-8.32	48.63	74.00	-25.37	peak
2	7440.000	54.65	-5.63	49.02	74.00	-24.98	peak
3	9920.000	51.31	-0.94	50.37	74.00	-23.63	peak



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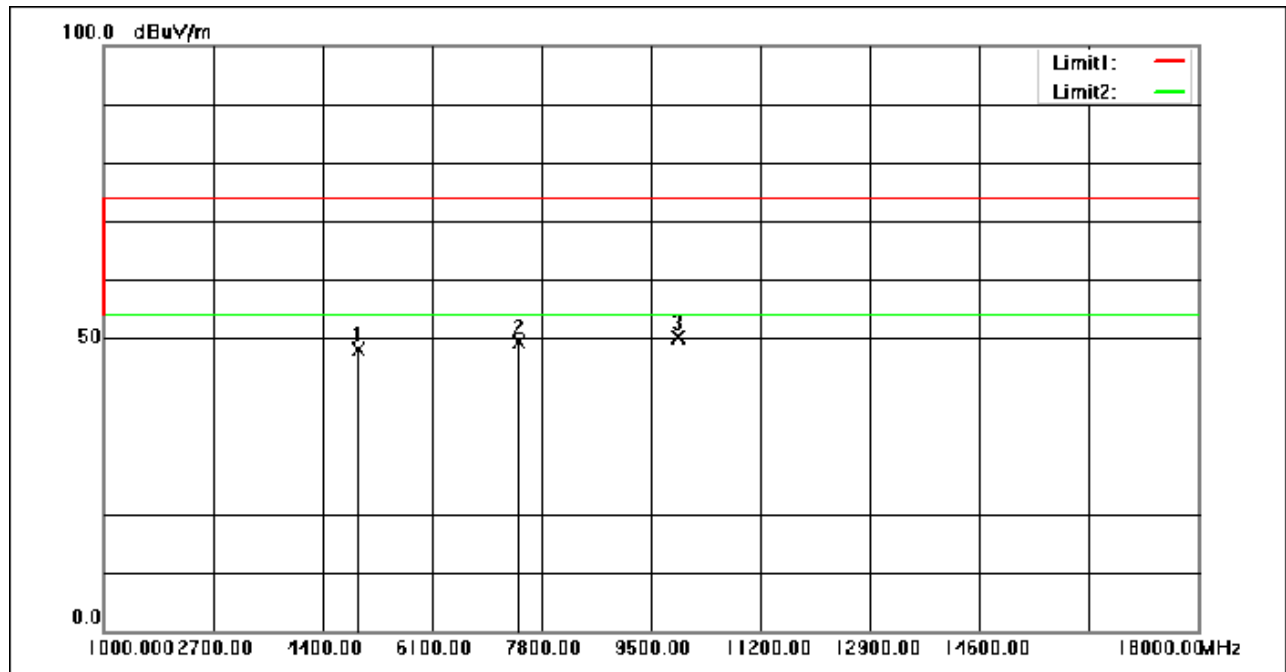
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Report No.: KSCR230100000501

Page: 58 of 125

Test Mode: 00; Polarity: Vertical; Modulation: GFSK; Channel: High; Data Rate: 1Mbps



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960.000	56.42	-8.32	48.10	74.00	-25.90	peak
2	7440.000	55.05	-5.63	49.42	74.00	-24.58	peak
3	9920.000	51.01	-0.94	50.07	74.00	-23.93	peak



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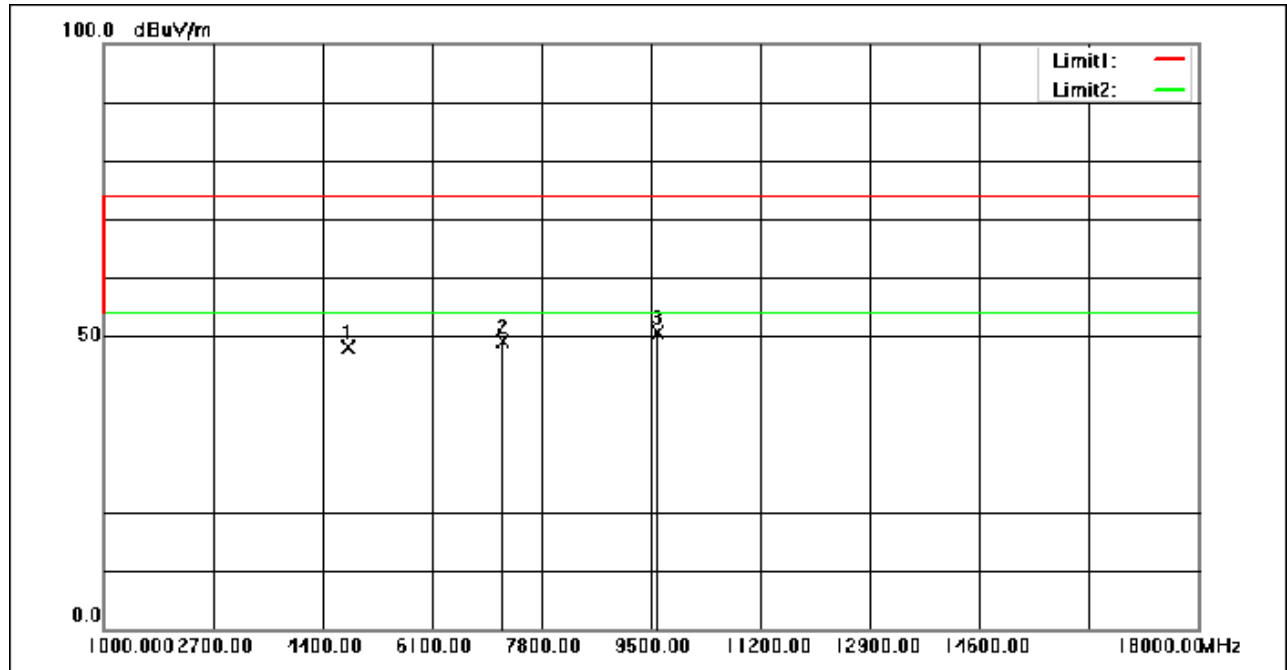
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Report No.: KSCR230100000501

Page: 59 of 125

Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low; Data Rate:2Mbps



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804.000	56.94	-8.86	48.08	74.00	-25.92	peak
2	7206.000	55.07	-5.89	49.18	74.00	-24.82	peak
3	9608.000	51.95	-1.26	50.69	74.00	-23.31	peak



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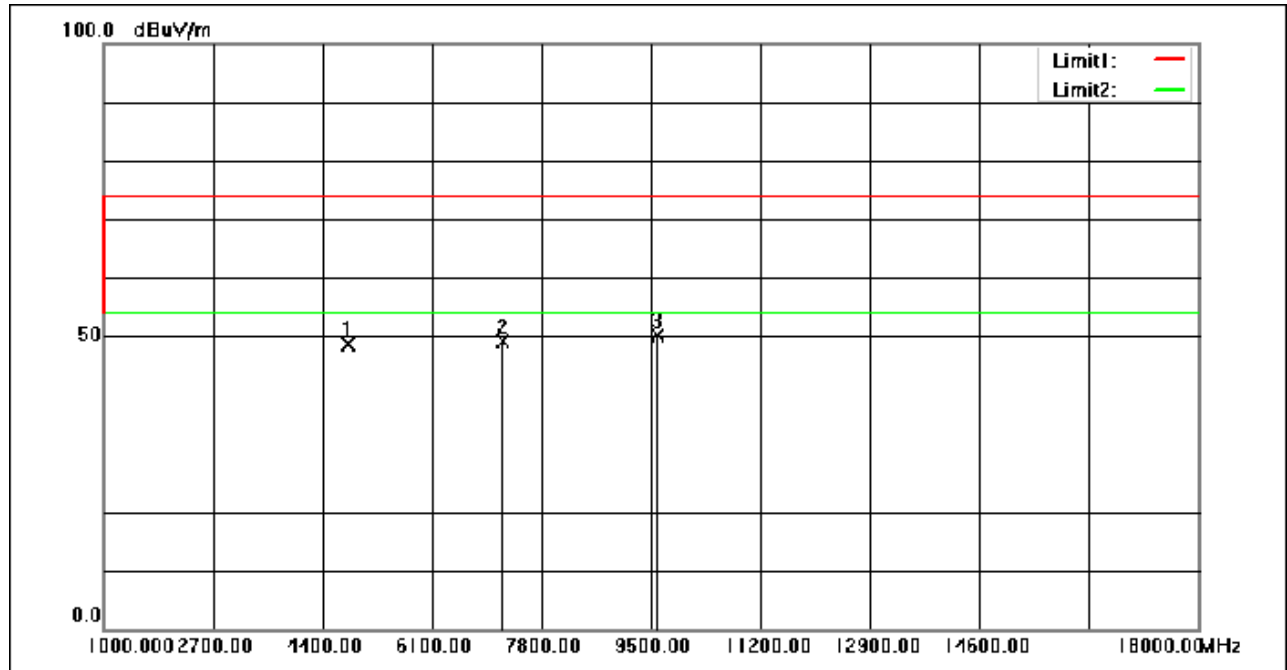
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230100000501

Page: 60 of 125

Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low; Data Rate:2Mbps



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804.000	57.51	-8.86	48.65	74.00	-25.35	peak
2	7206.000	55.02	-5.89	49.13	74.00	-24.87	peak
3	9608.000	51.28	-1.26	50.02	74.00	-23.98	peak



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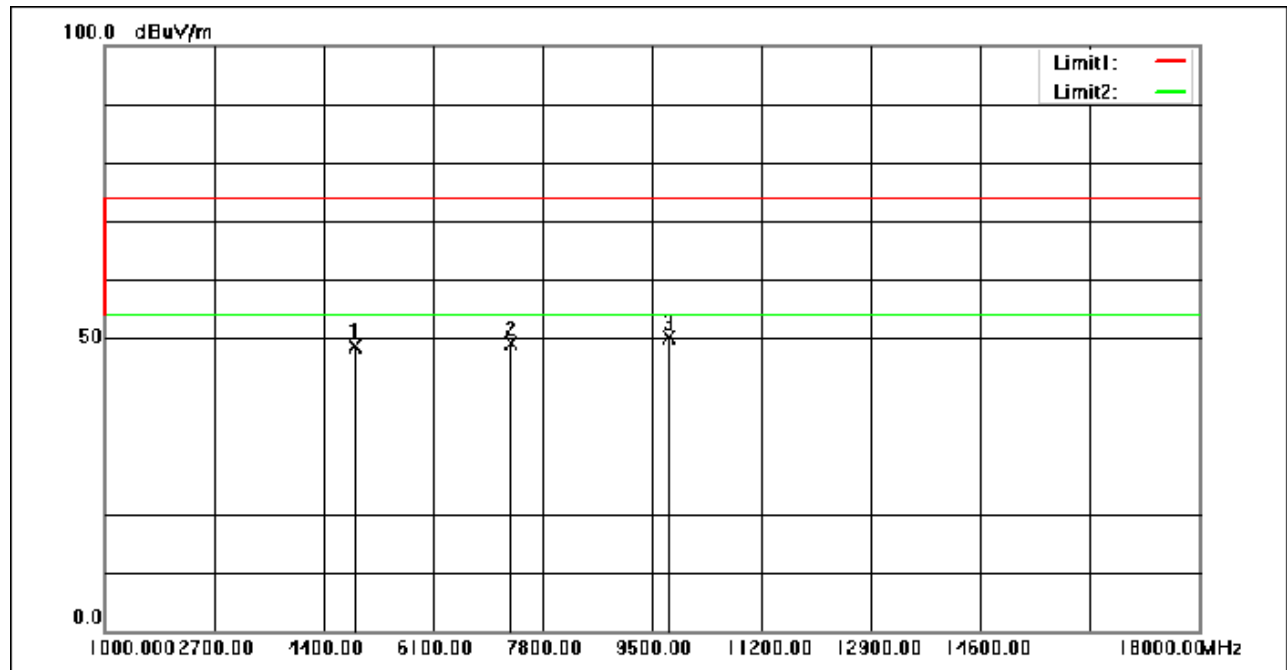
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230100000501

Page: 61 of 125

Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:middle; Data Rate:2Mbps



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4880.000	57.32	-8.60	48.72	74.00	-25.28	peak
2	7320.000	54.78	-5.77	49.01	74.00	-24.99	peak
3	9760.000	51.59	-1.45	50.14	74.00	-23.86	peak



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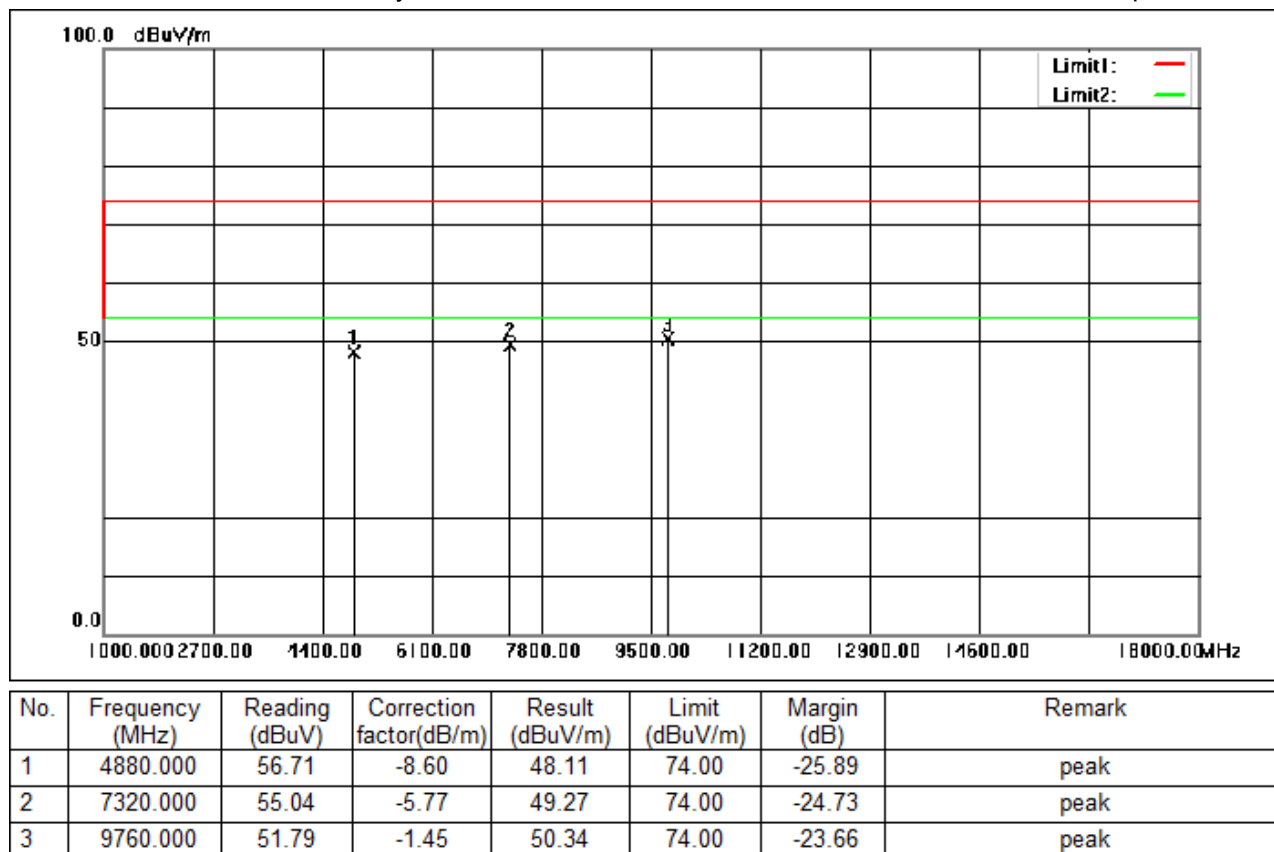
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Page: 62 of 125

Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:middle; Data Rate:2Mbps



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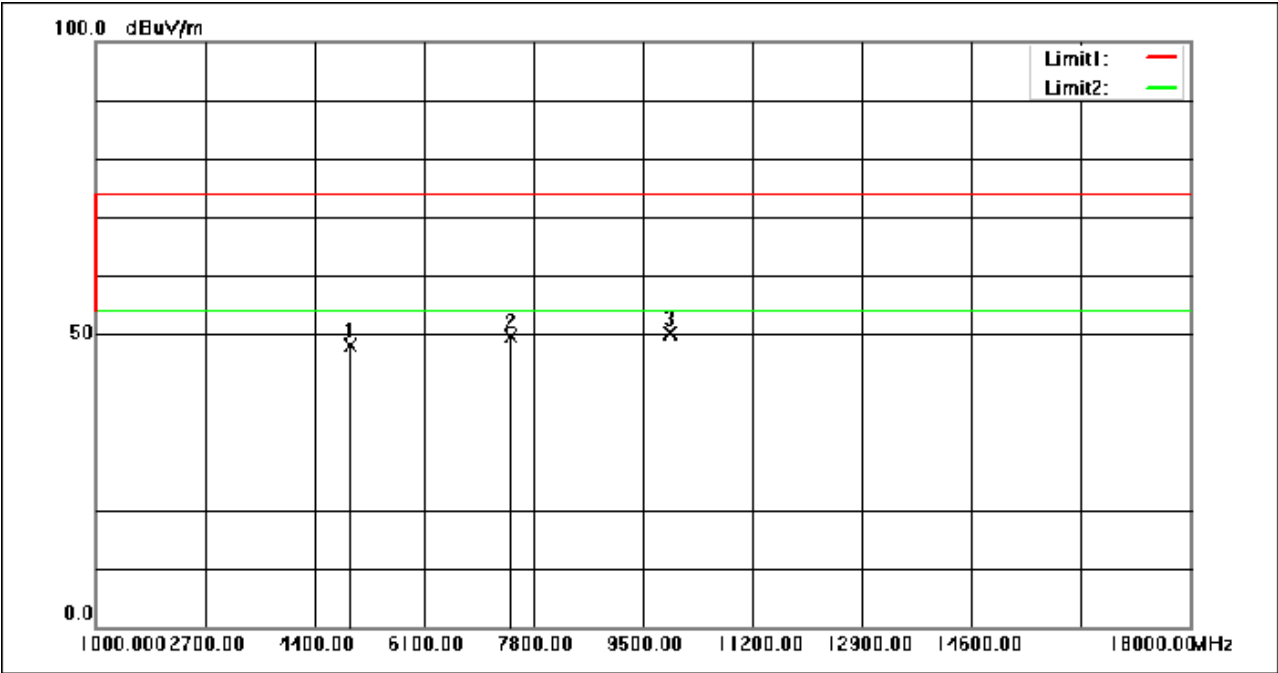
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230100000501

Page: 63 of 125

Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High; Data Rate:2Mbps



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960.000	56.57	-8.32	48.25	74.00	-25.75	peak
2	7440.000	55.19	-5.63	49.56	74.00	-24.44	peak
3	9920.000	51.01	-0.94	50.07	74.00	-23.93	peak



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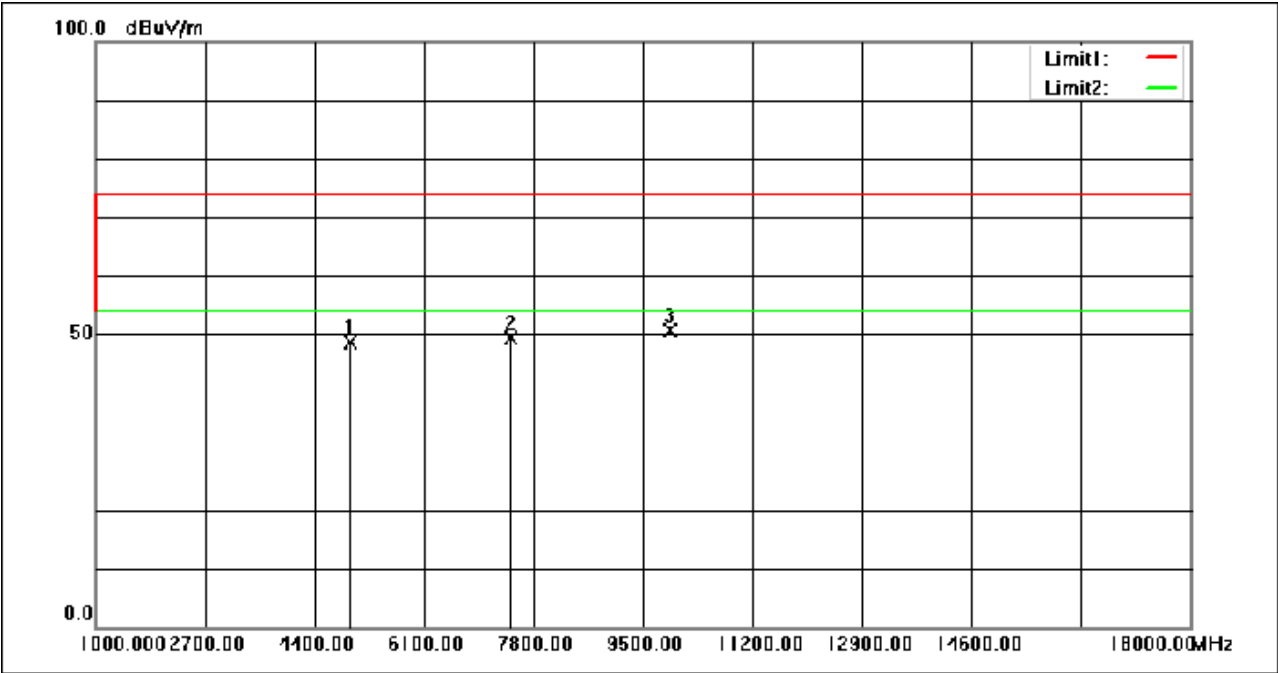
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Report No.: KSCR230100000501

Page: 64 of 125

Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High; Data Rate:2Mbps



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960.000	56.95	-8.32	48.63	74.00	-25.37	peak
2	7440.000	55.03	-5.63	49.40	74.00	-24.60	peak
3	9920.000	51.56	-0.94	50.62	74.00	-23.38	peak



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Report No.: KSCR230100000501

Page: 65 of 125

8 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2301000005AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for KSCR2301000005AT



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10 Appendix

Appendix for Left Earphone

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	2.136	5.000	42.72	3.69	42.79
		2440	2.135	4.997	42.73	3.69	42.81
		2480	2.136	4.995	42.76	3.69	42.72
2M	SISO	2402	1.080	1.877	57.54	2.40	0.12
		2440	1.080	1.878	57.51	2.40	0.15
		2480	1.080	1.878	57.51	2.40	0.15



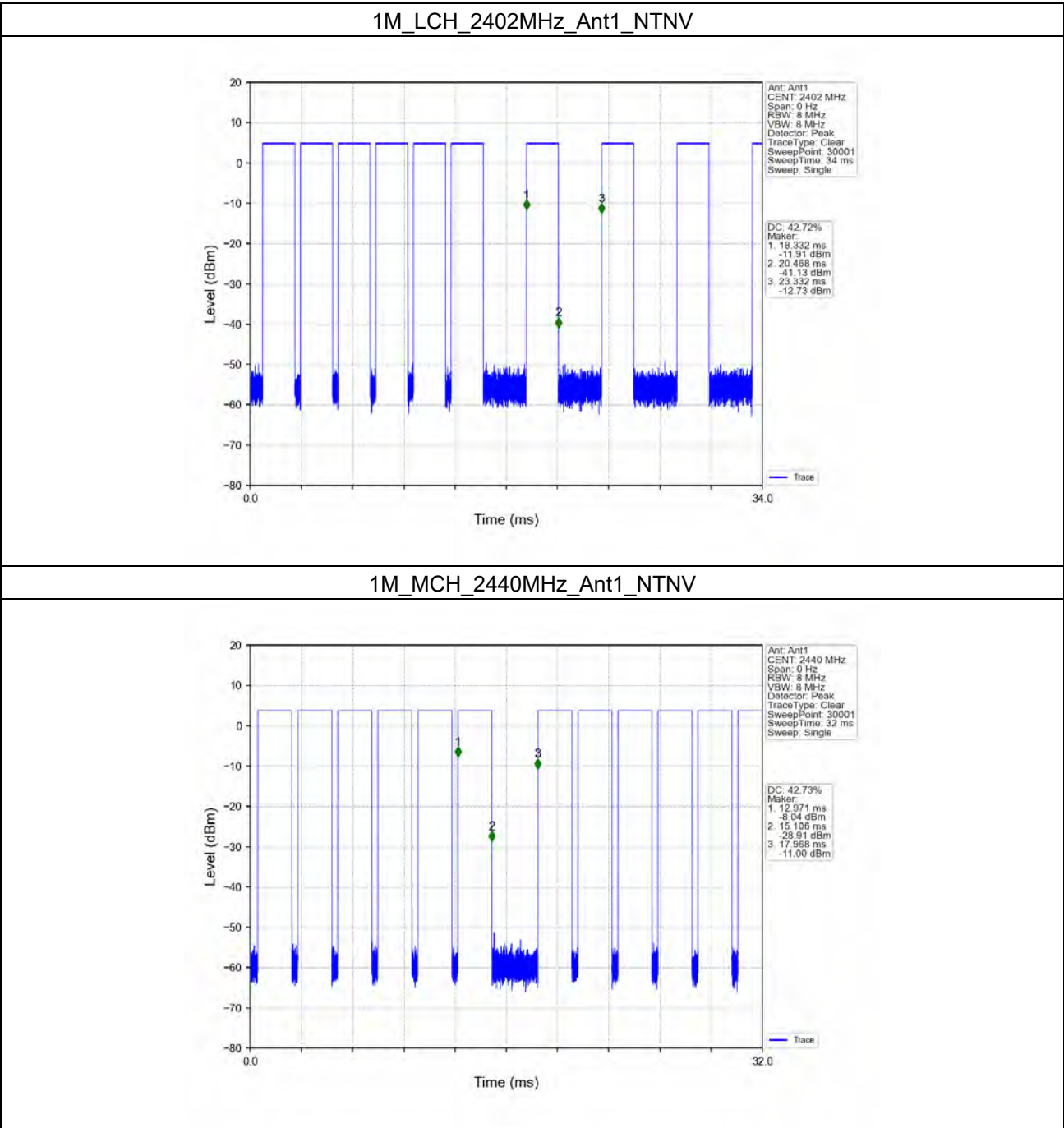
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1.1.2 Test Graph



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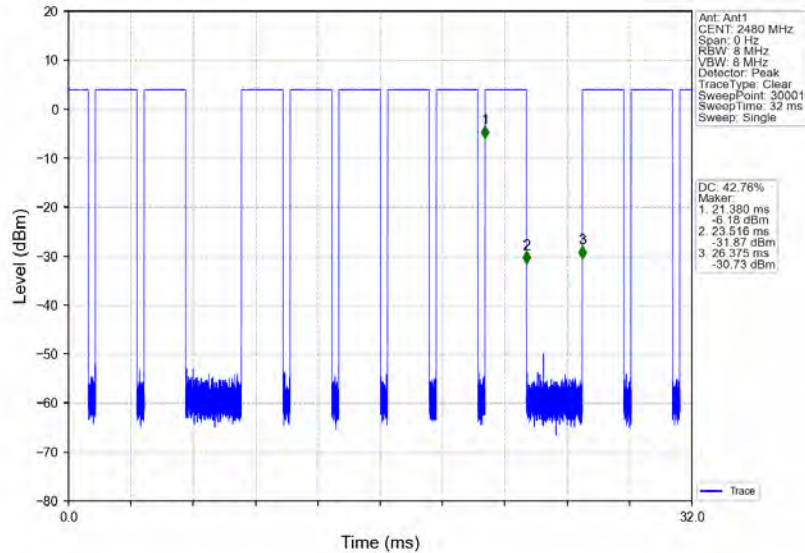
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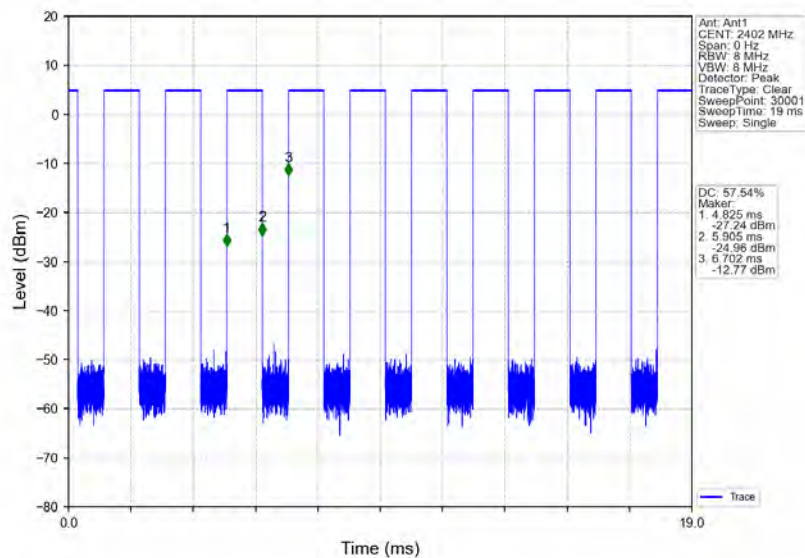
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1M_HCH_2480MHz_Ant1_NTNV



2M_LCH_2402MHz_Ant1_NTNV



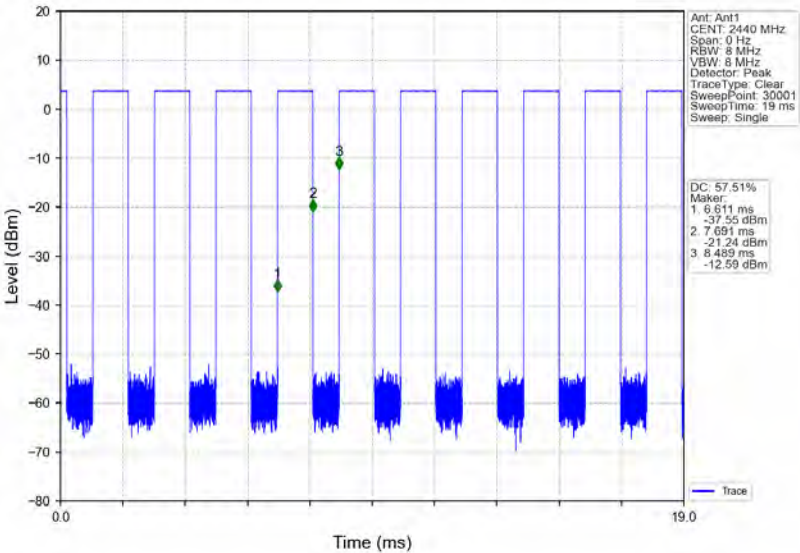
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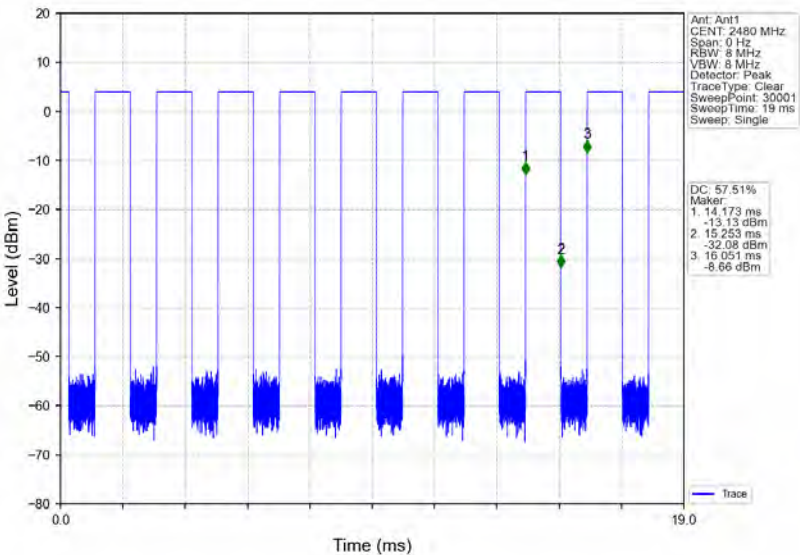
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Report No.: KSCR230100000501

Page: 70 of 125

2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
1M	SISO	2402	1	1.016	Pass
		2440	1	1.011	Pass
		2480	1	1.006	Pass
2M	SISO	2402	1	2.046	Pass
		2440	1	2.038	Pass
		2480	1	2.031	Pass



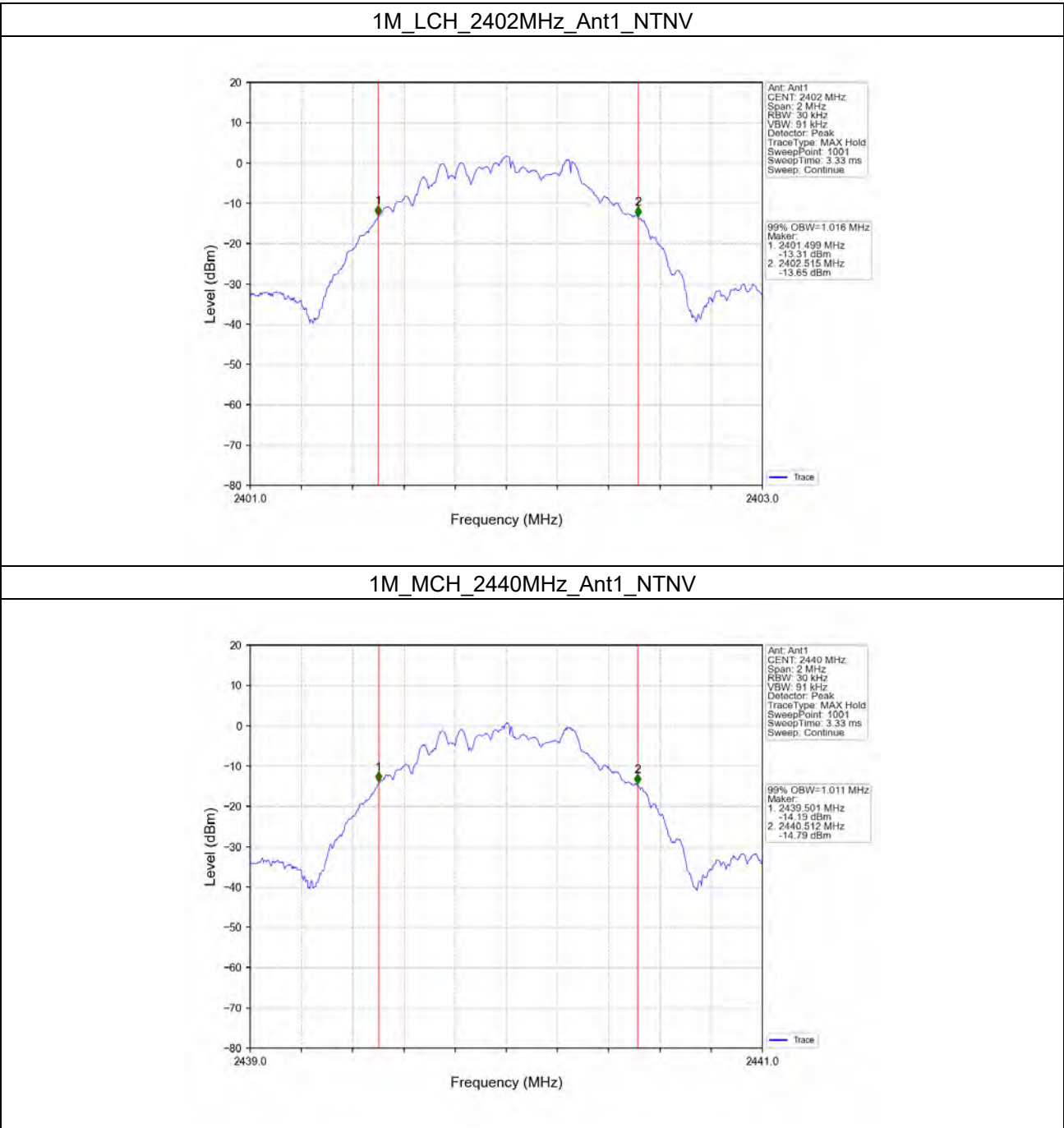
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2.1.2 Test Graph



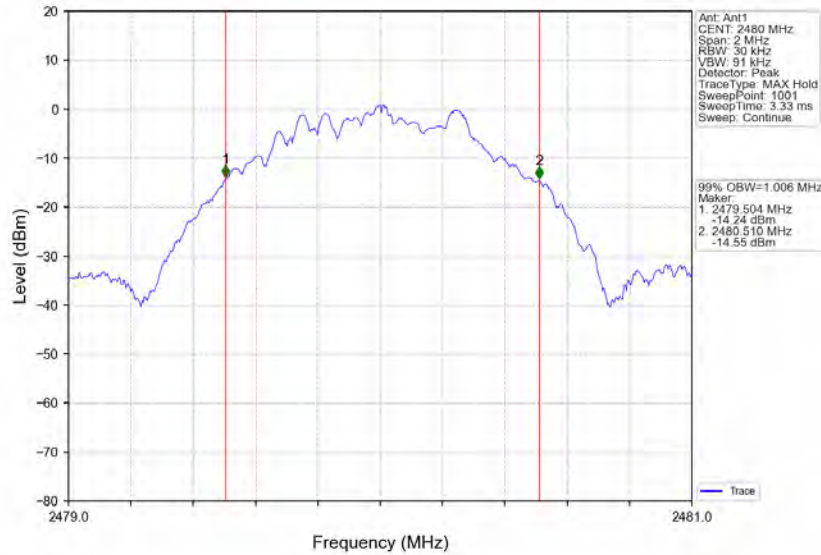
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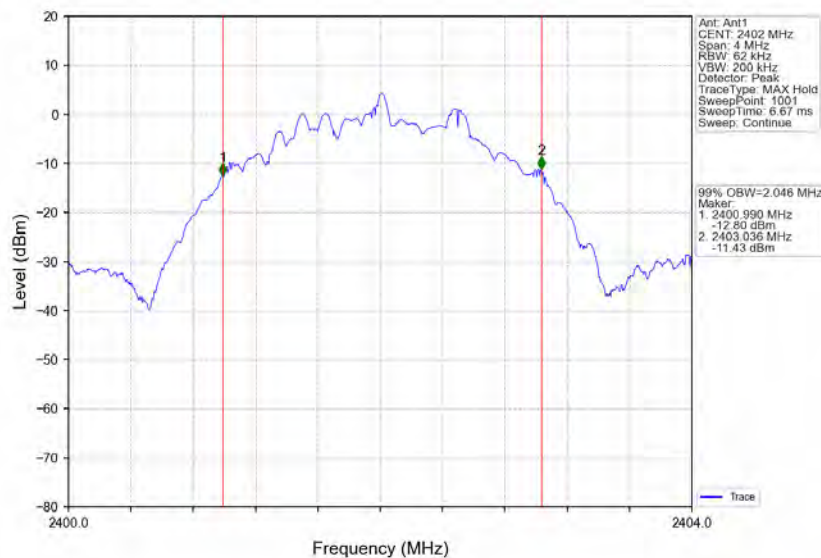
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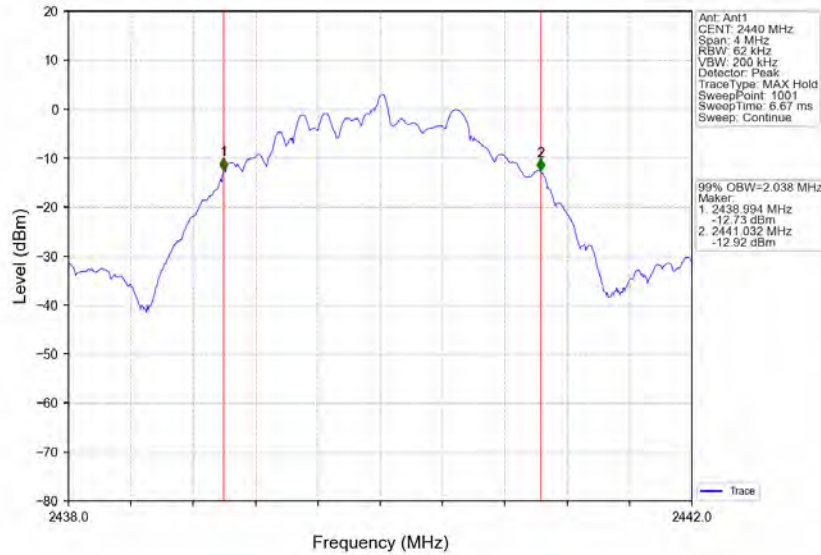
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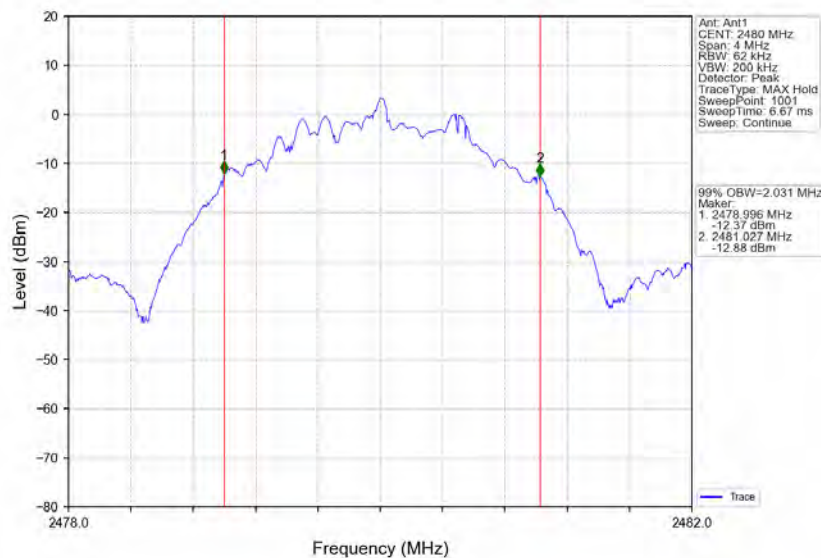
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Report No.: KSCR230100000501

Page: 74 of 125

2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.663	≥ 0.5	Pass
		2440	1	0.662	≥ 0.5	Pass
		2480	1	0.663	≥ 0.5	Pass
2M	SISO	2402	1	1.138	≥ 0.5	Pass
		2440	1	1.124	≥ 0.5	Pass
		2480	1	1.146	≥ 0.5	Pass



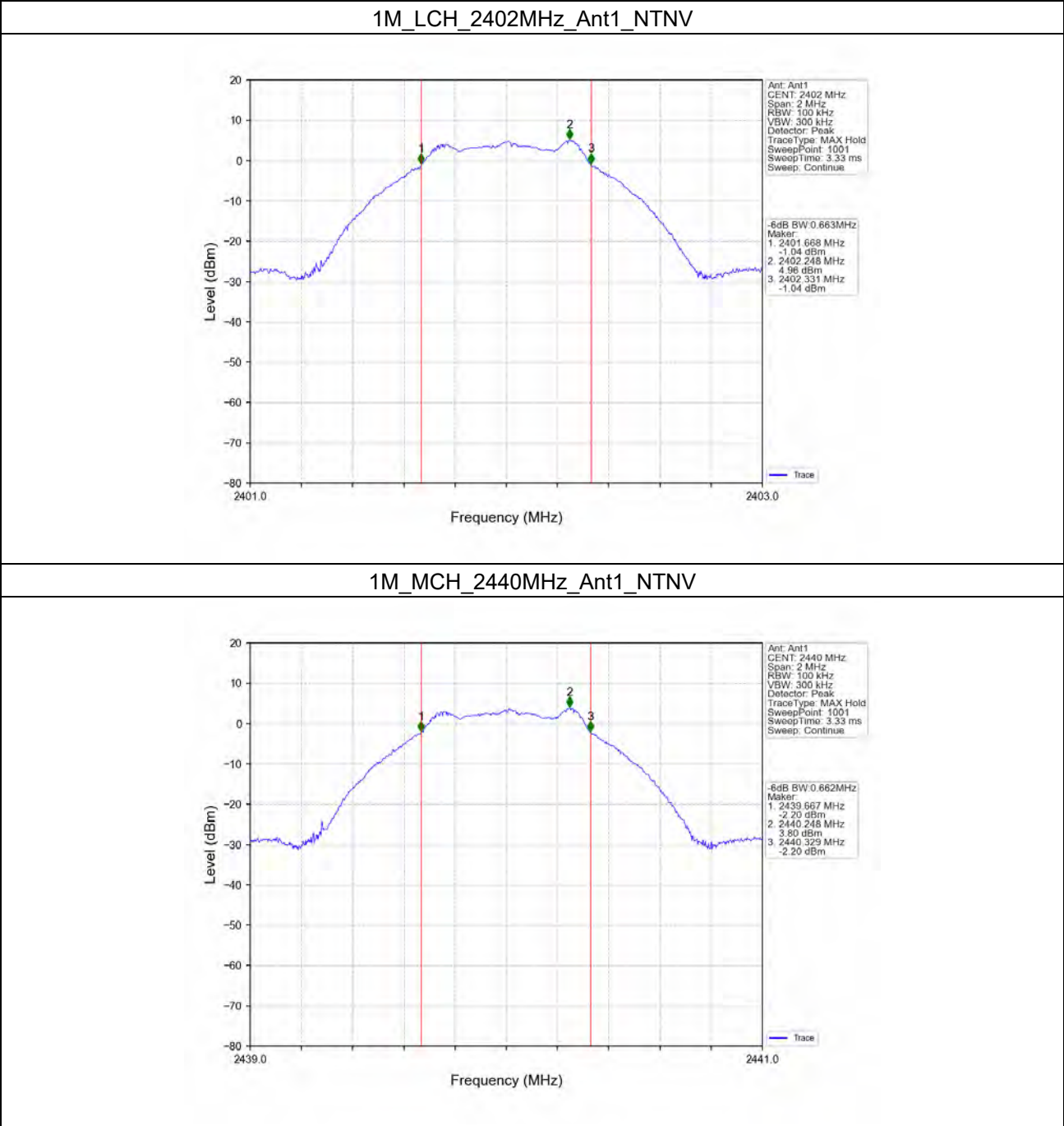
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2.2.2 Test Graph



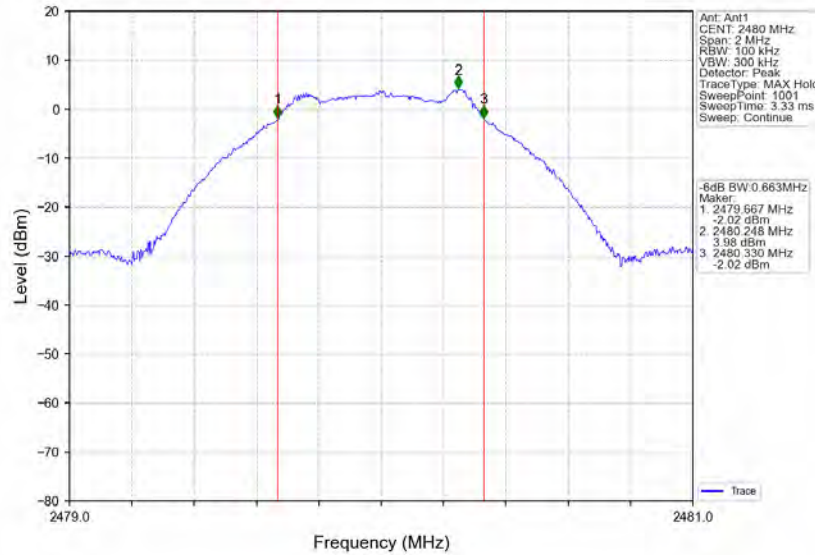
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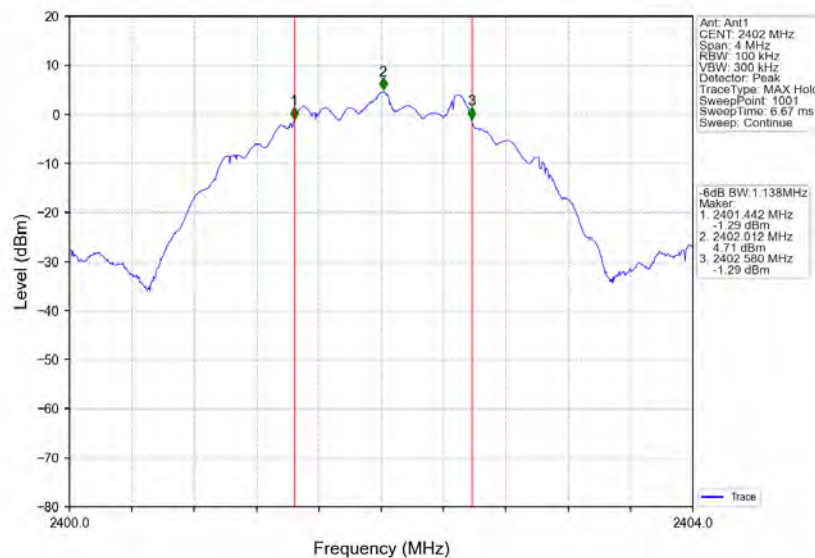
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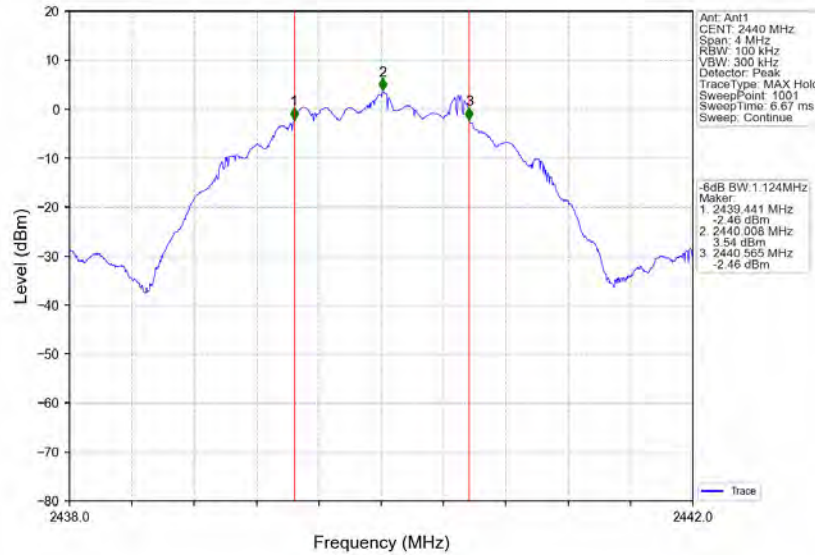
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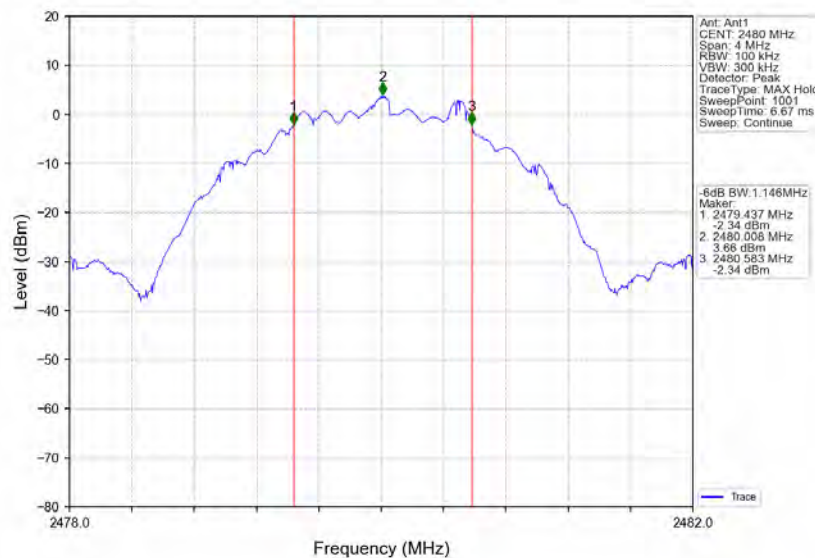
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Page: 78 of 125

3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	3.94	<=30	Pass
		2440	3.78	<=30	Pass
		2480	3.98	<=30	Pass
2M	SISO	2402	3.99	<=30	Pass
		2440	3.80	<=30	Pass
		2480	3.99	<=30	Pass

Note1: Antenna Gain: Ant1: -5.22dBi;



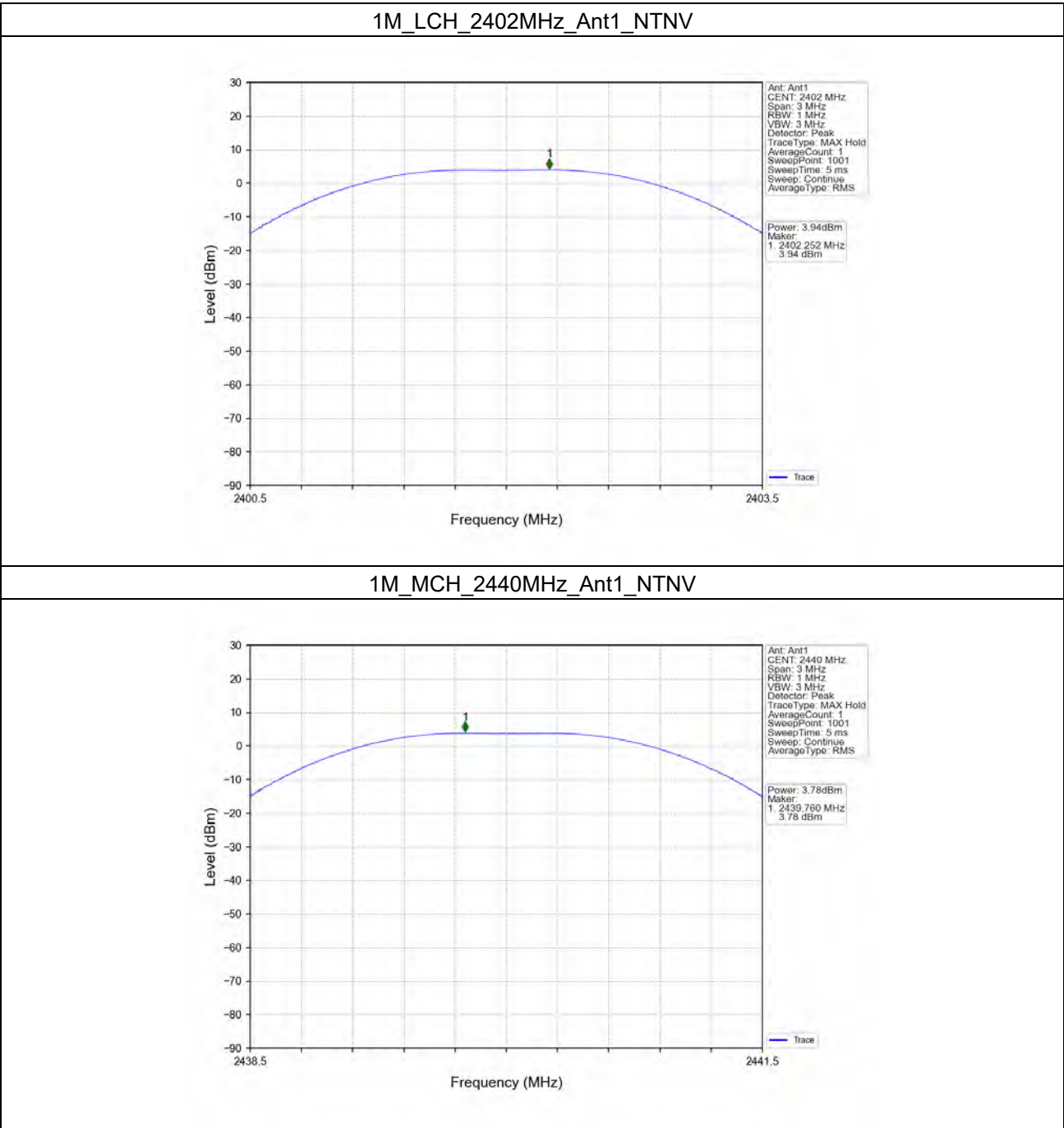
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3.1.2 Test Graph



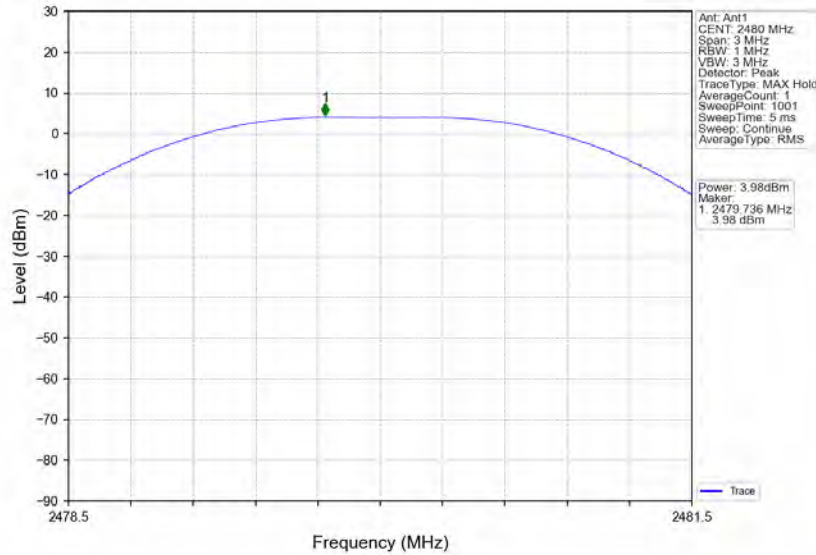
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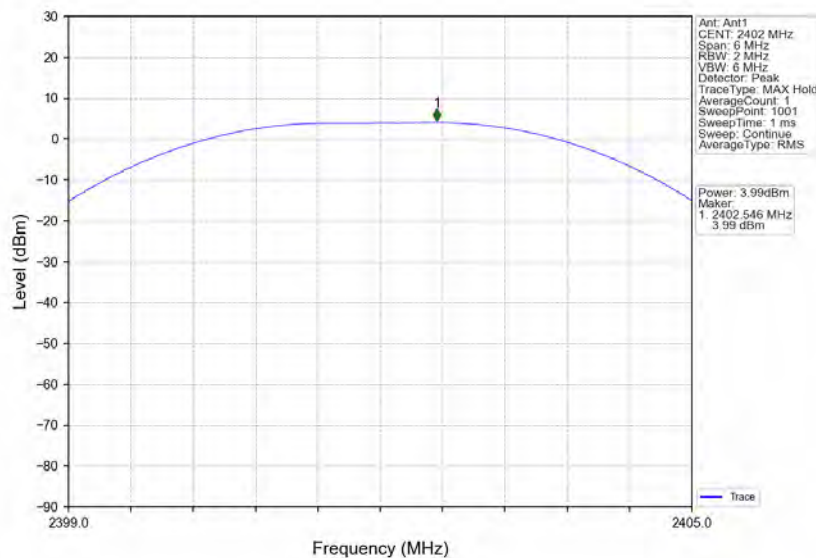
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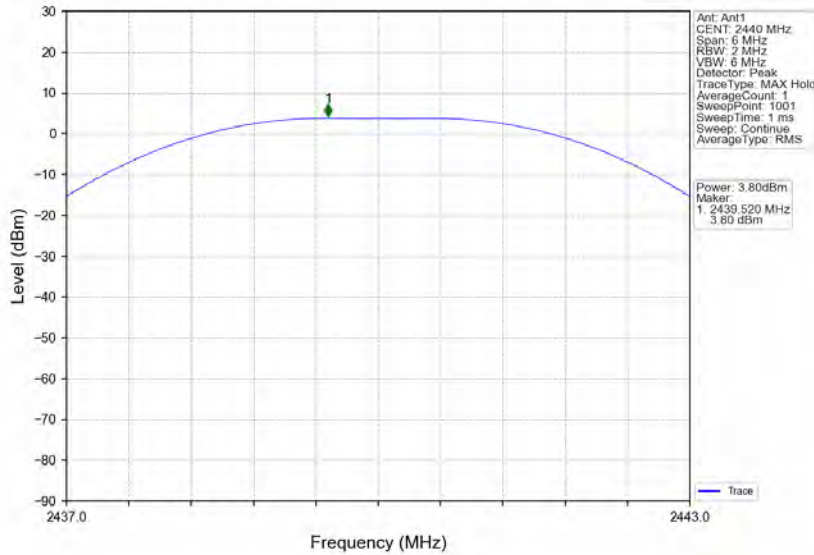
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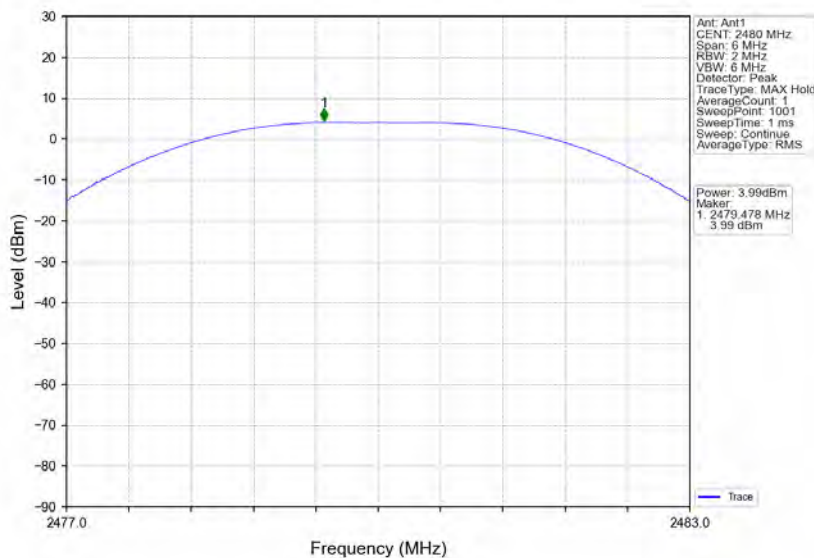
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Page: 82 of 125

4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-12.70	<=8	Pass
		2440	-12.68	<=8	Pass
		2480	-12.37	<=8	Pass
2M	SISO	2402	-14.47	<=8	Pass
		2440	-14.63	<=8	Pass
		2480	-14.34	<=8	Pass

Note1: Antenna Gain: Ant1: -5.22dBi;



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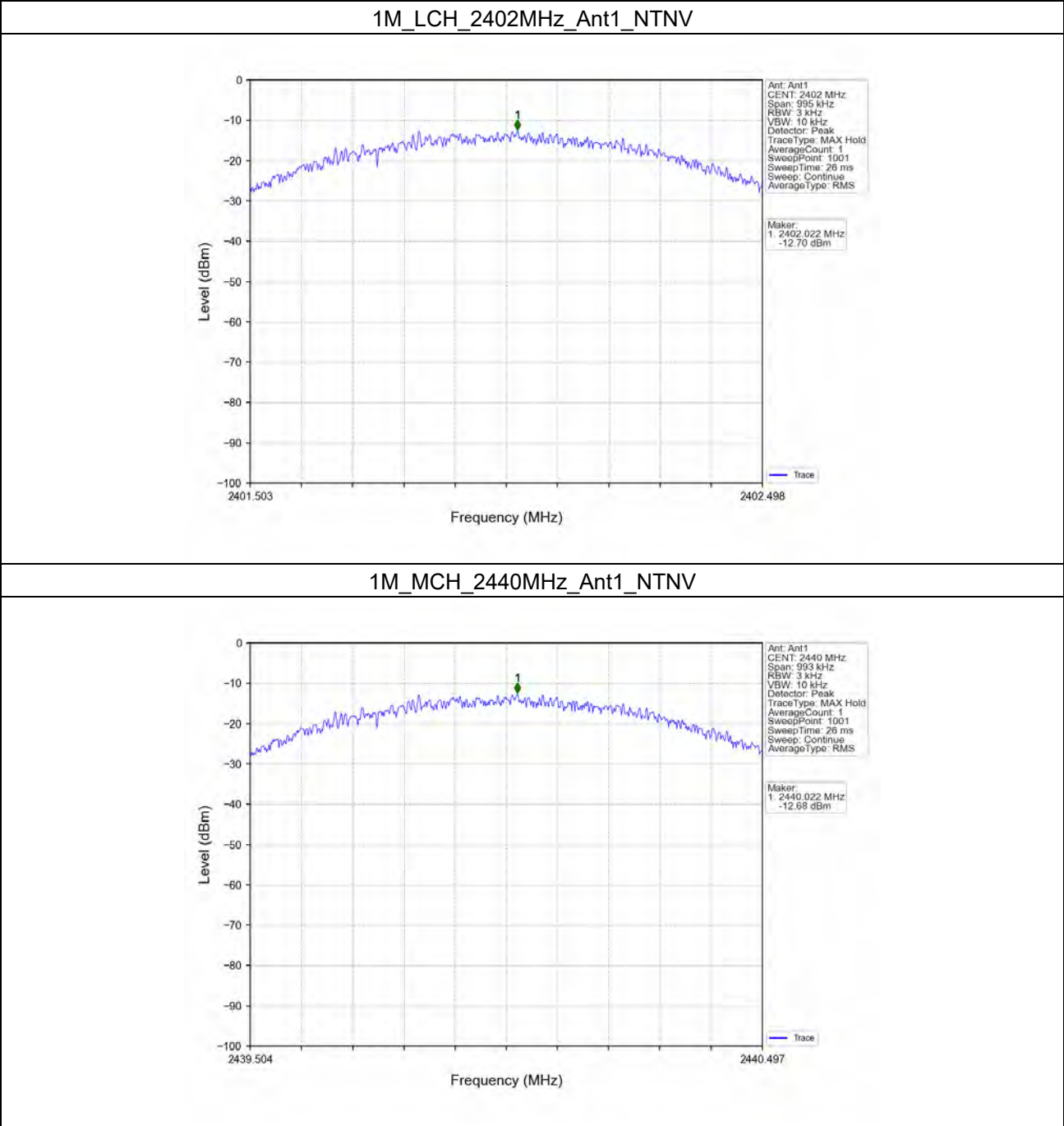
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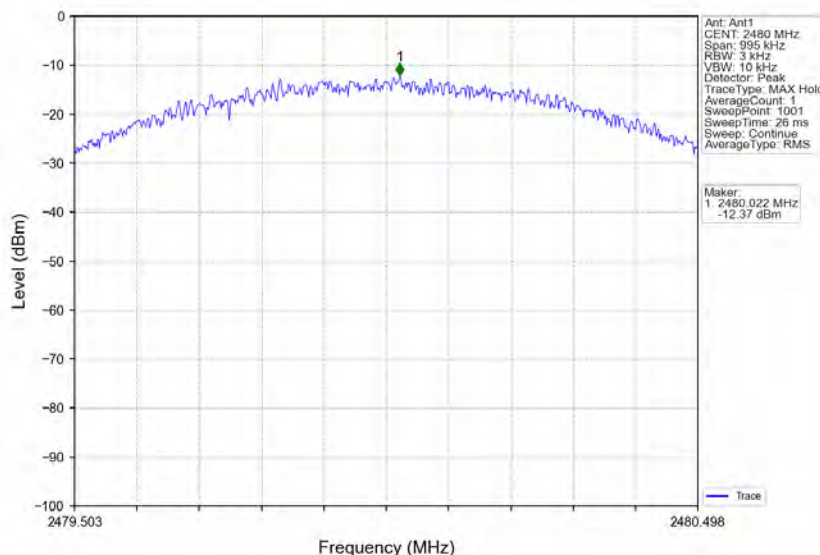
4.1.2 Test Graph



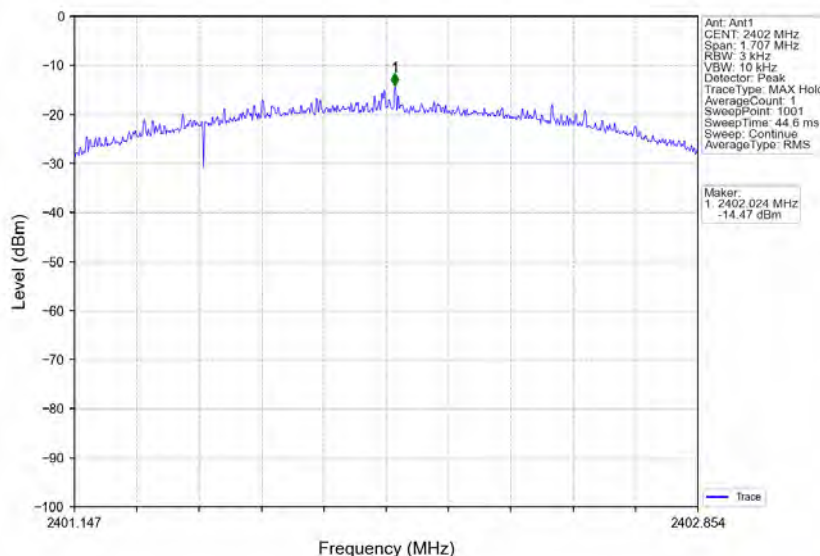
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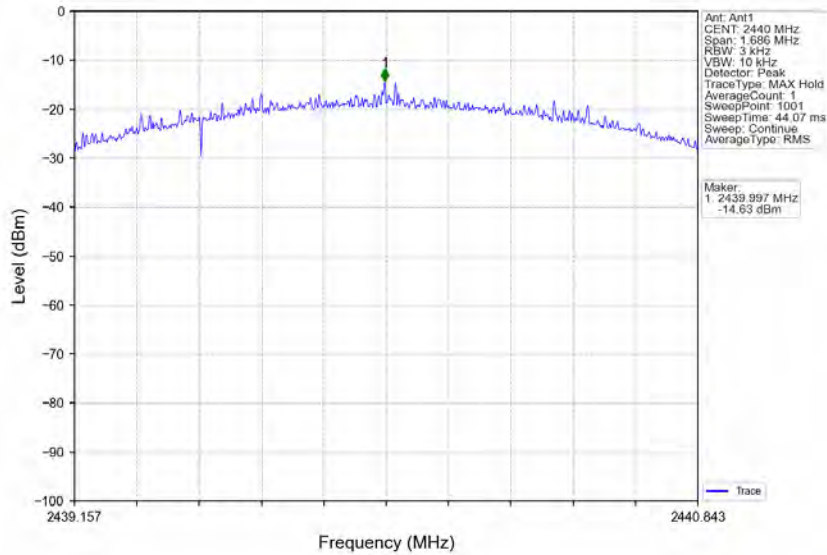
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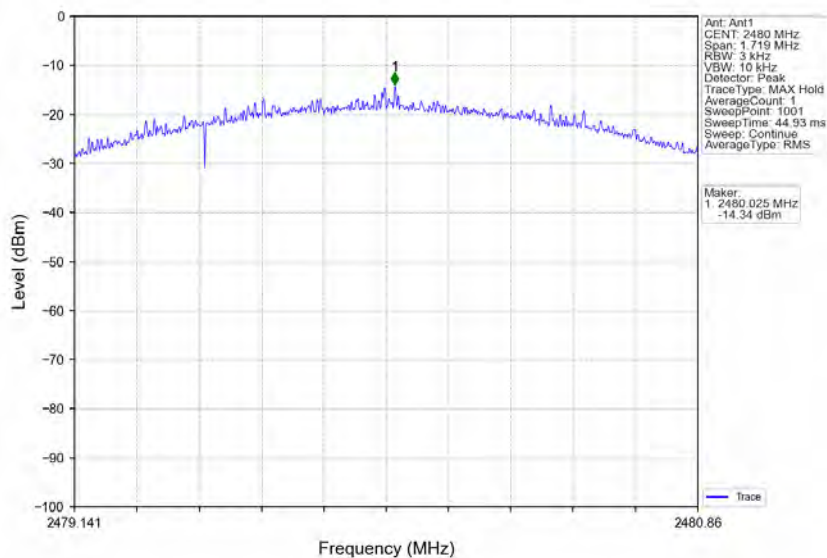
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Report No.: KSCR230100000501

Page: 86 of 125

5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	3.95
		2440	1	3.79
		2480	1	3.77
2M	SISO	2402	1	3.66
		2440	1	3.58
		2480	1	3.42

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.



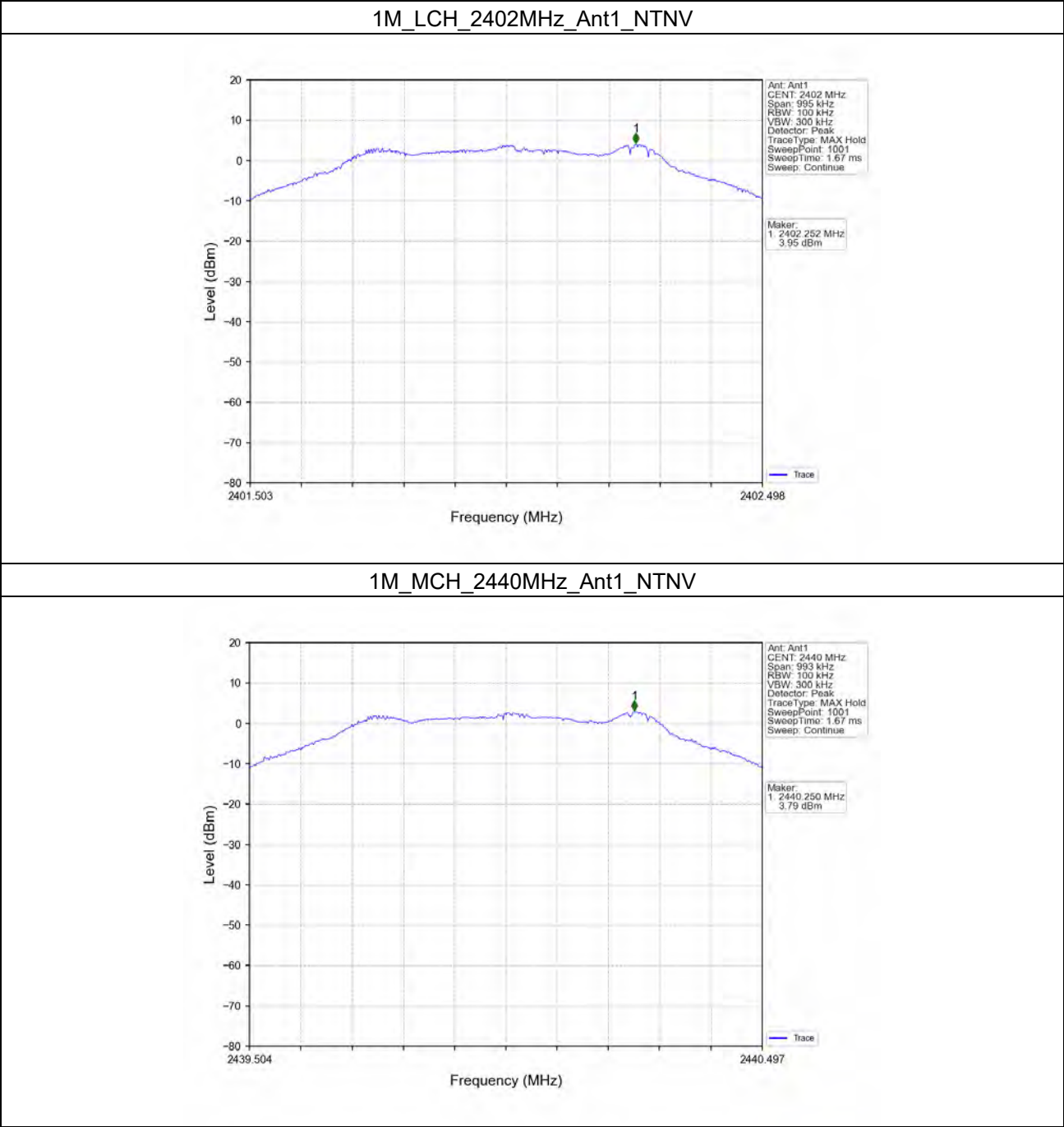
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5.1.2 Test Graph



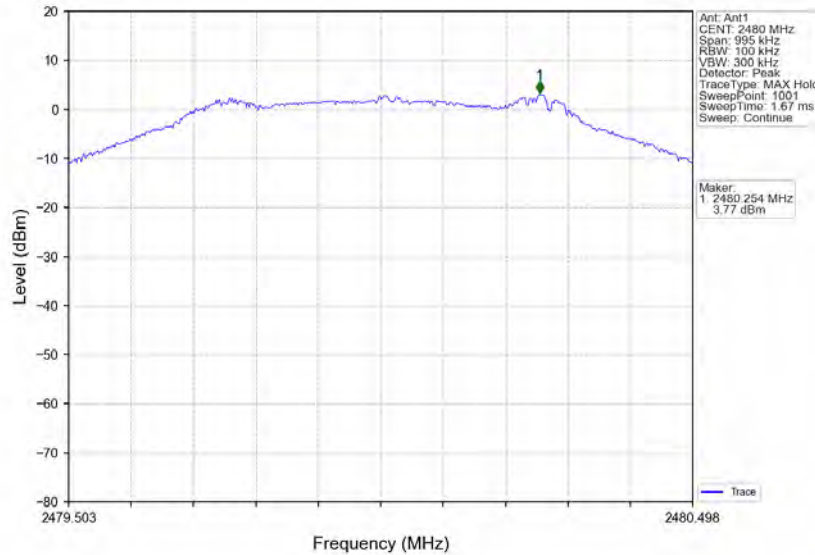
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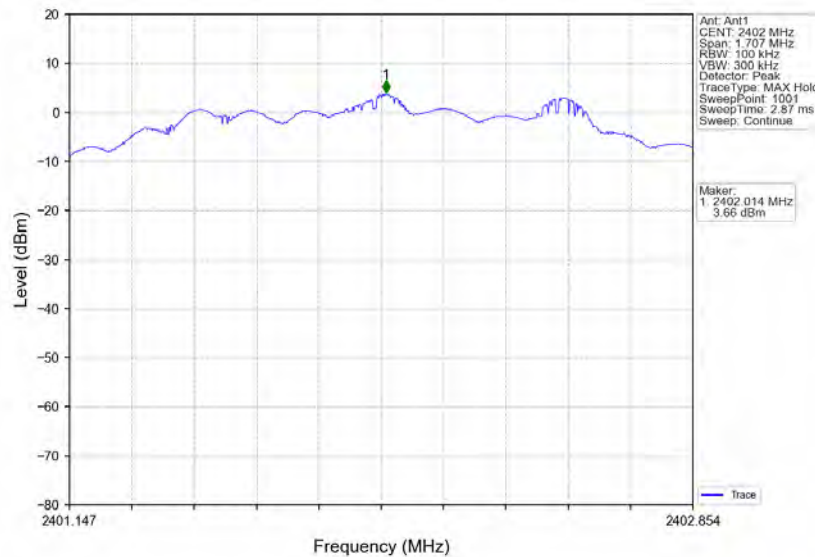
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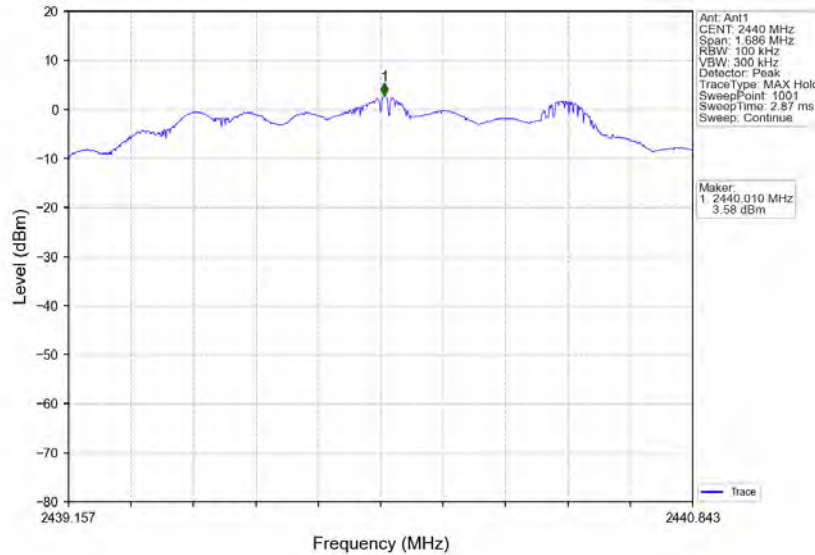
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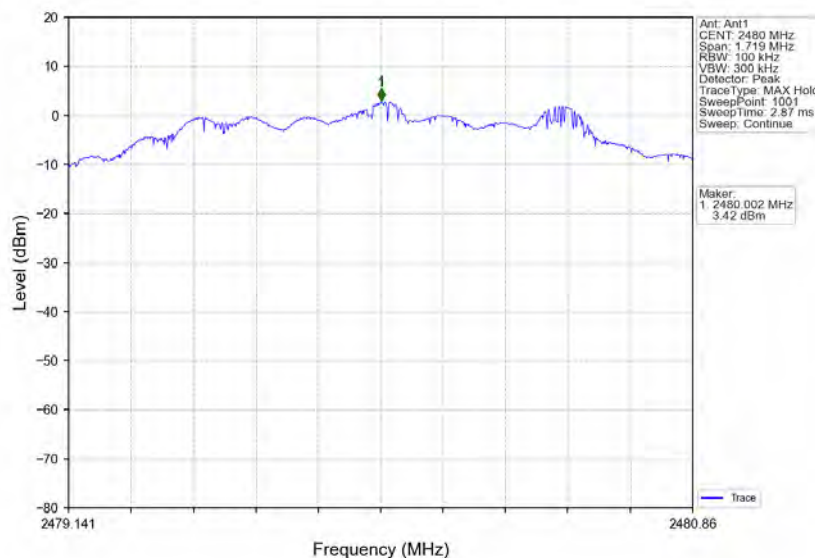
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Report No.: KSCR230100000501

Page: 90 of 125

5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	3.95	-16.05	Pass
		2440	1	3.95	-16.05	Pass
		2480	1	3.95	-16.05	Pass
2M	SISO	2402	1	3.66	-16.34	Pass
		2440	1	3.66	-16.34	Pass
		2480	1	3.66	-16.34	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.



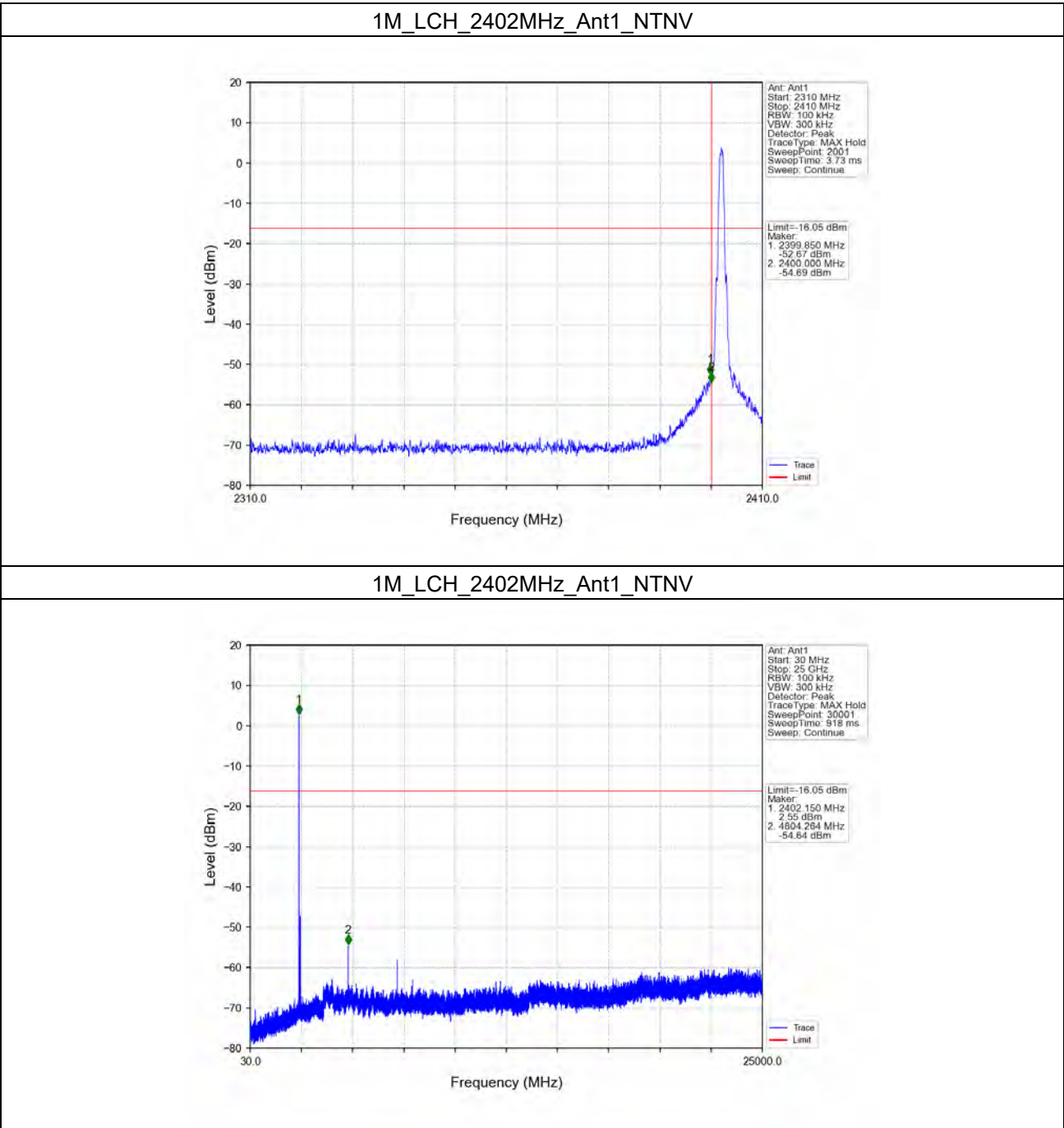
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5.2.2 Test Graph



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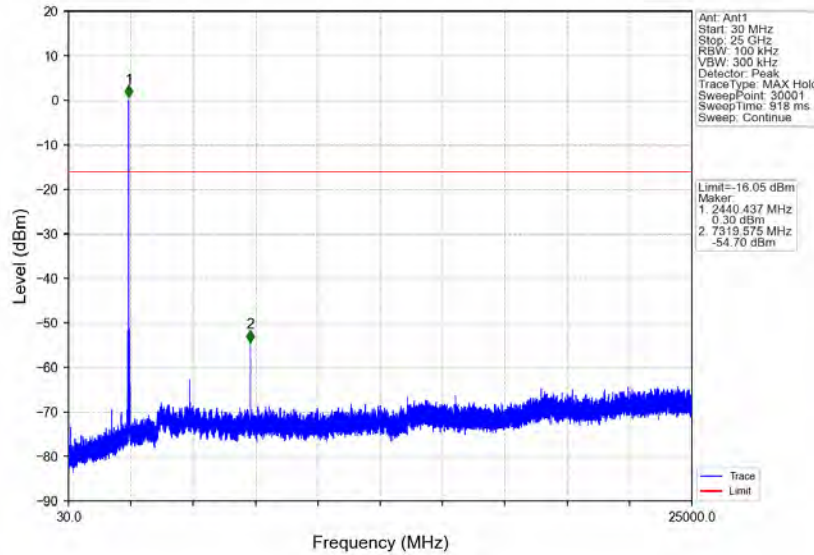
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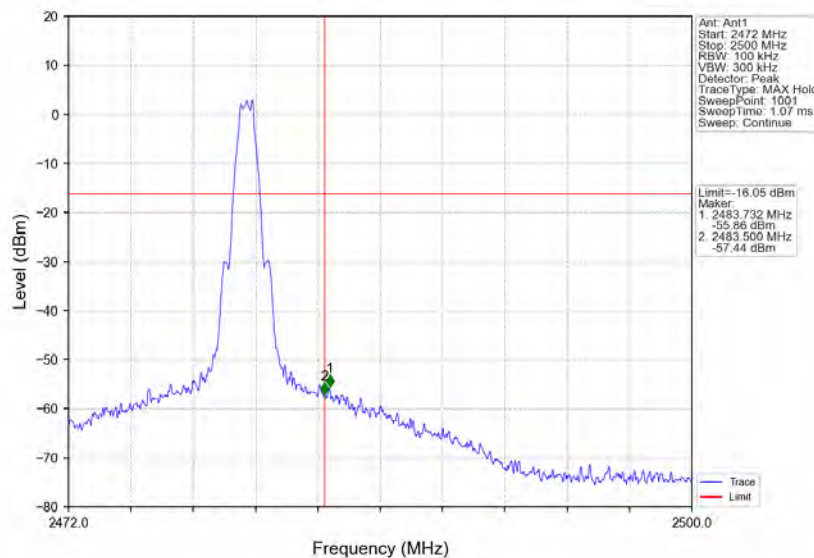
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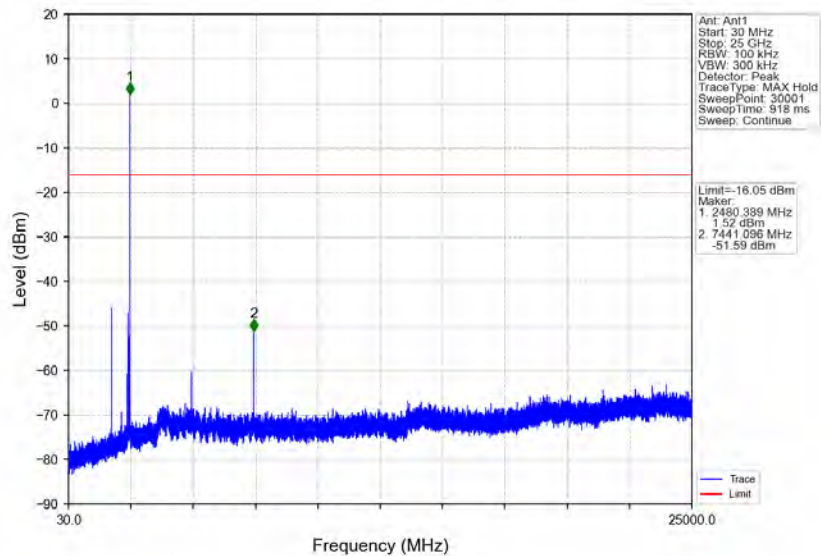
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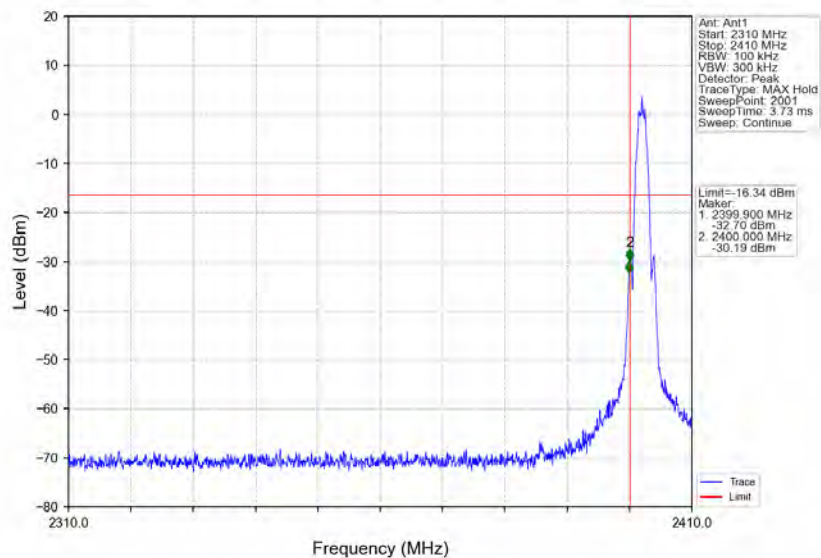
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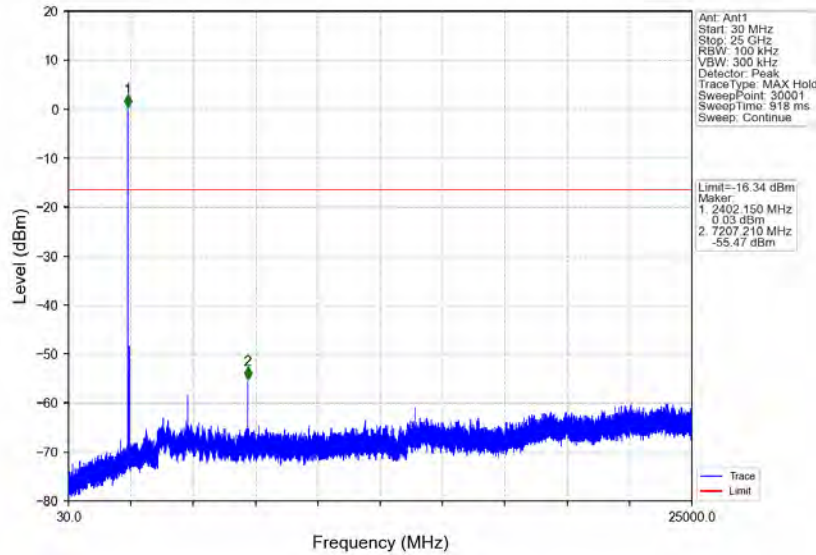
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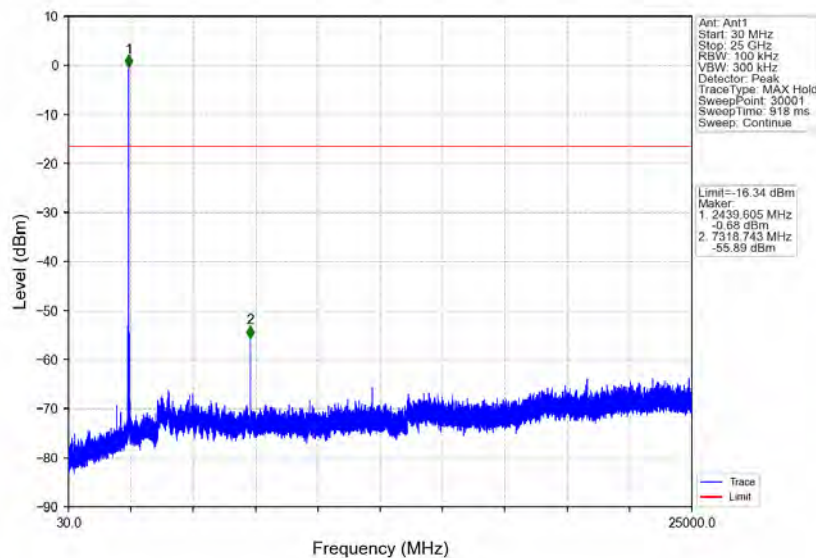
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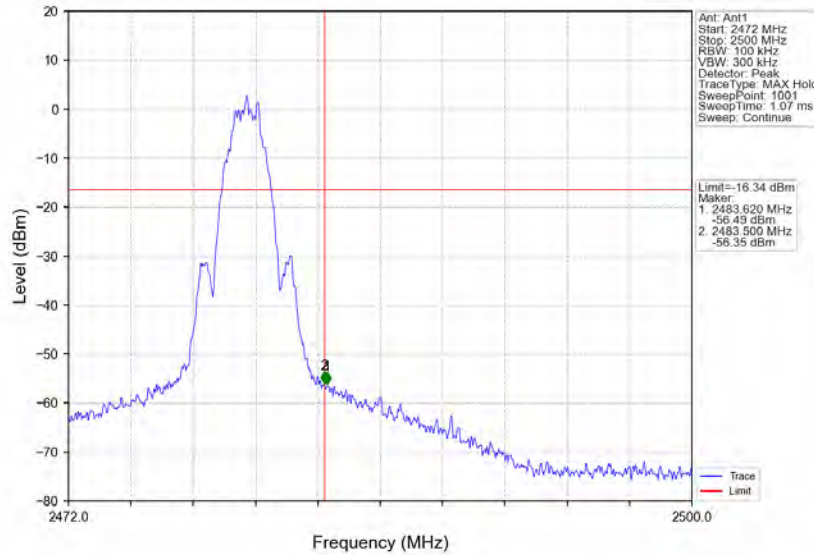
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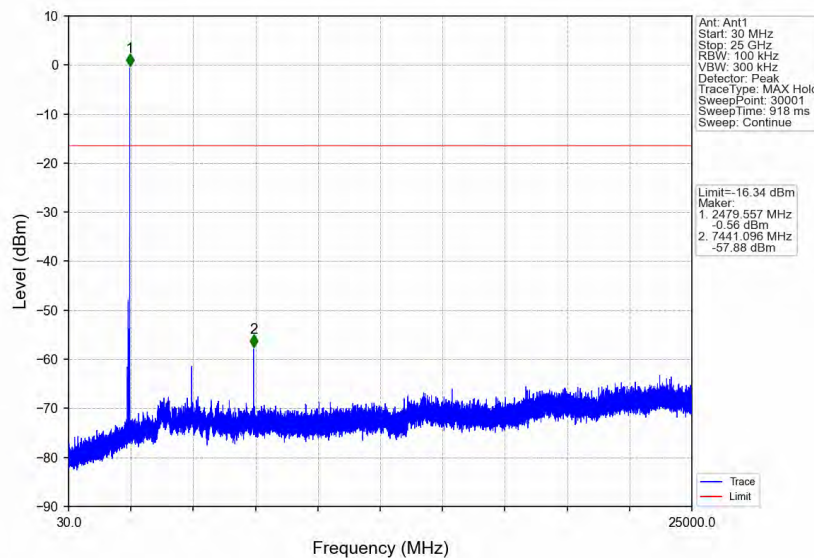
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Page: 96 of 125

Appendix for Right Earphone

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	0.392	1.251	31.33	5.04	0.05
		2440	0.391	1.251	31.25	5.05	0.08
		2480	0.392	1.251	31.33	5.04	0.08
2M	SISO	2402	0.207	0.626	33.07	4.81	0.20
		2440	0.207	0.626	33.07	4.81	0.19
		2480	0.208	0.627	33.17	4.79	0.14



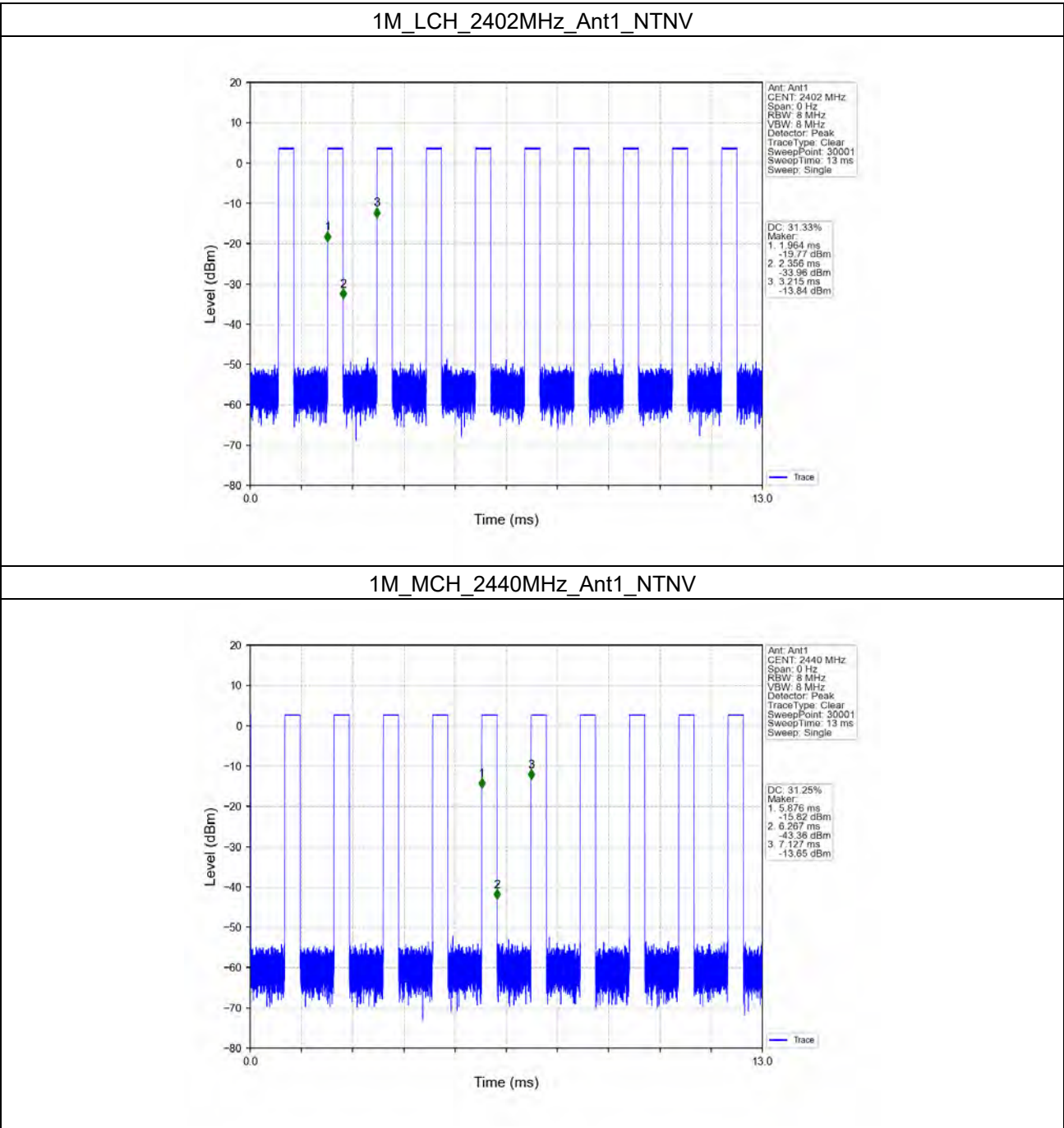
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1.1.2 Test Graph



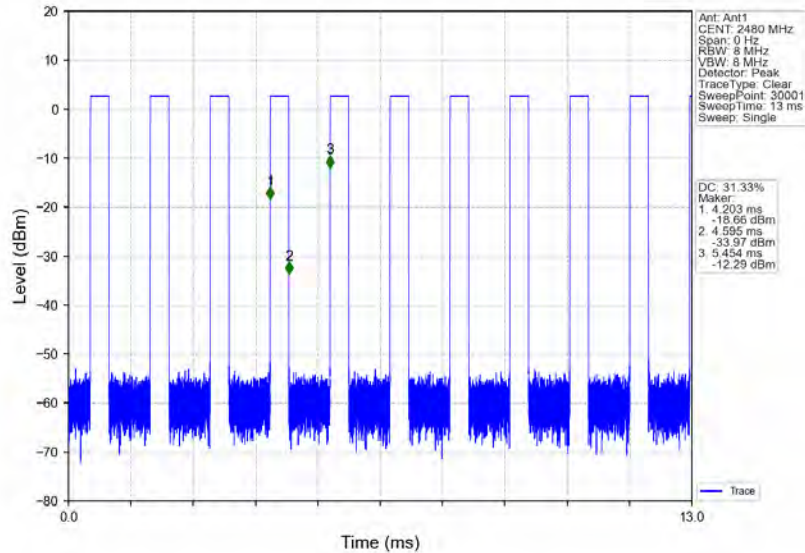
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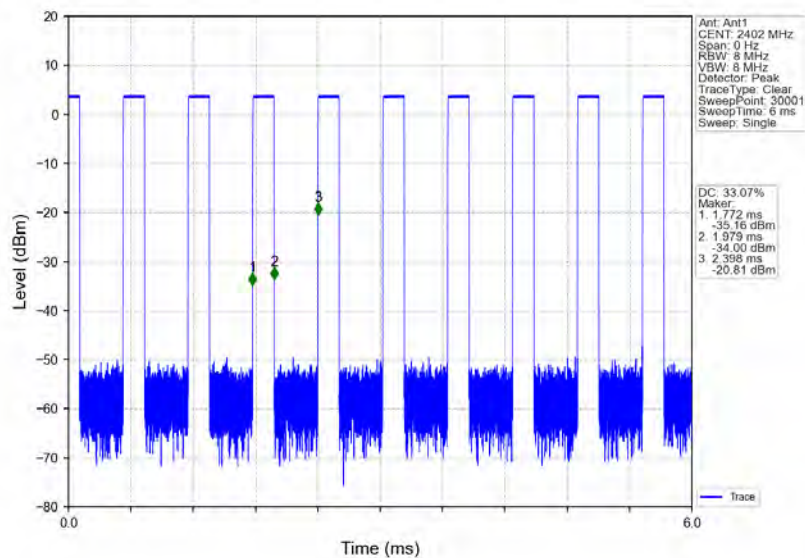
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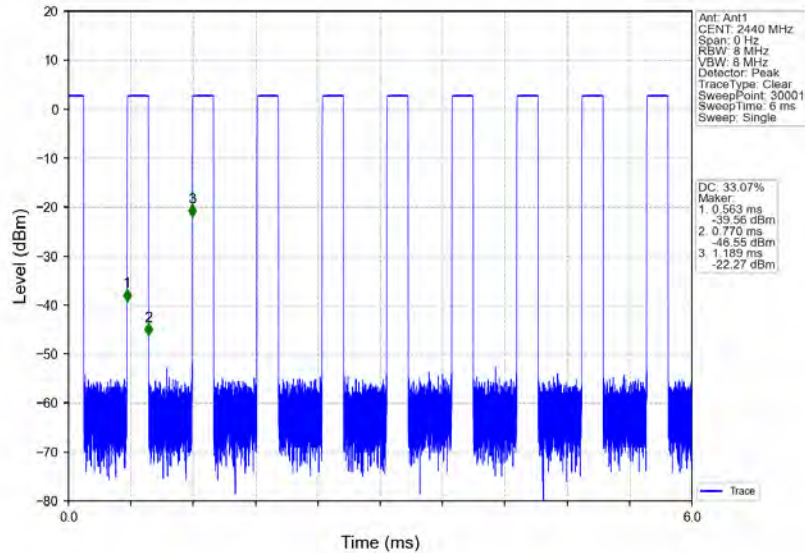
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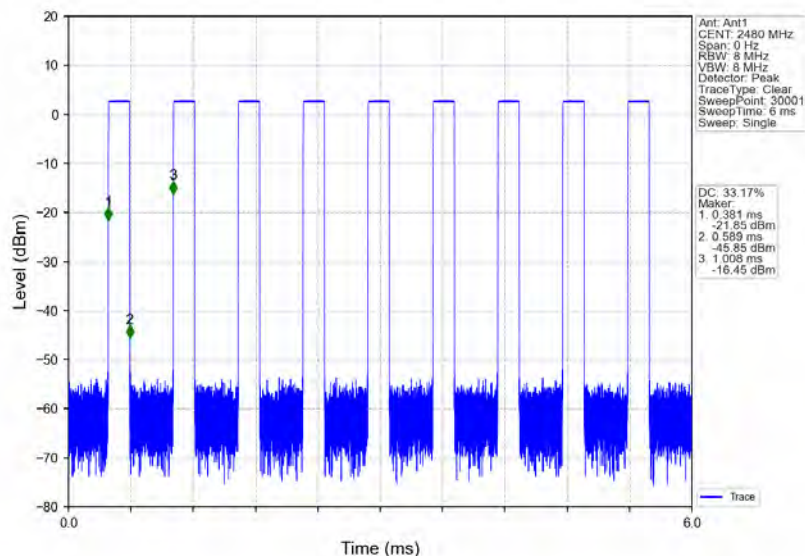
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Page: 100 of 125

2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
1M	SISO	2402	1	1.032	Pass
		2440	1	1.023	Pass
		2480	1	1.019	Pass
2M	SISO	2402	1	2.082	Pass
		2440	1	2.062	Pass
		2480	1	2.065	Pass



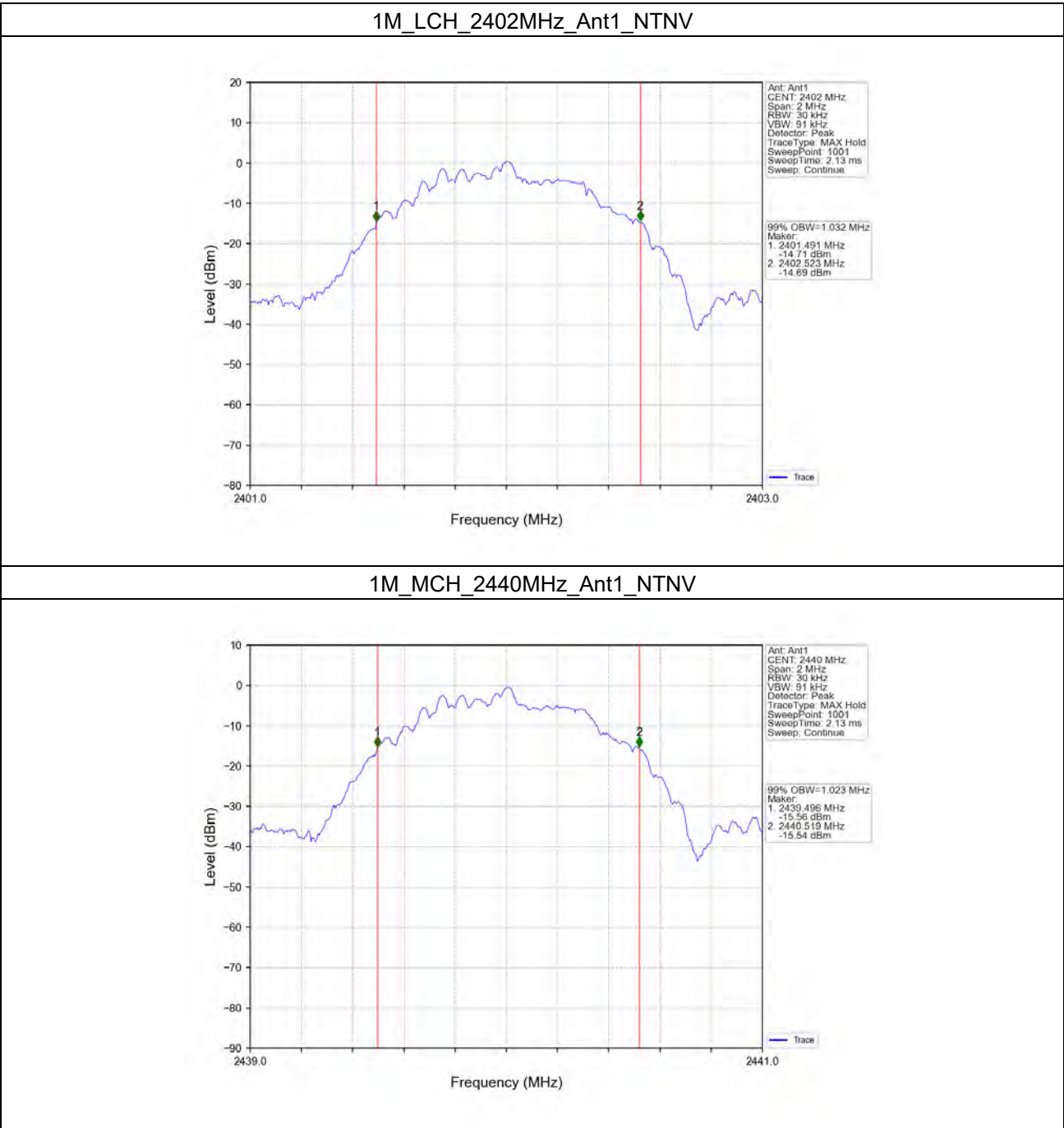
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2.1.2 Test Graph



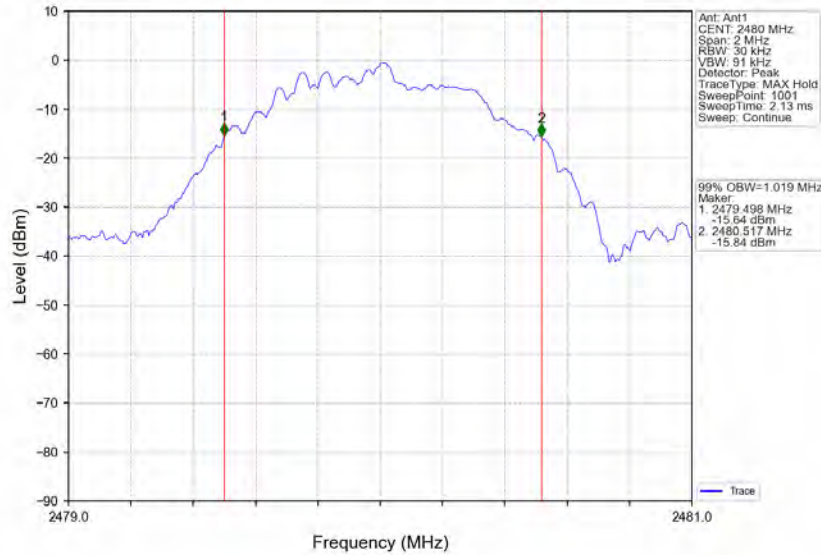
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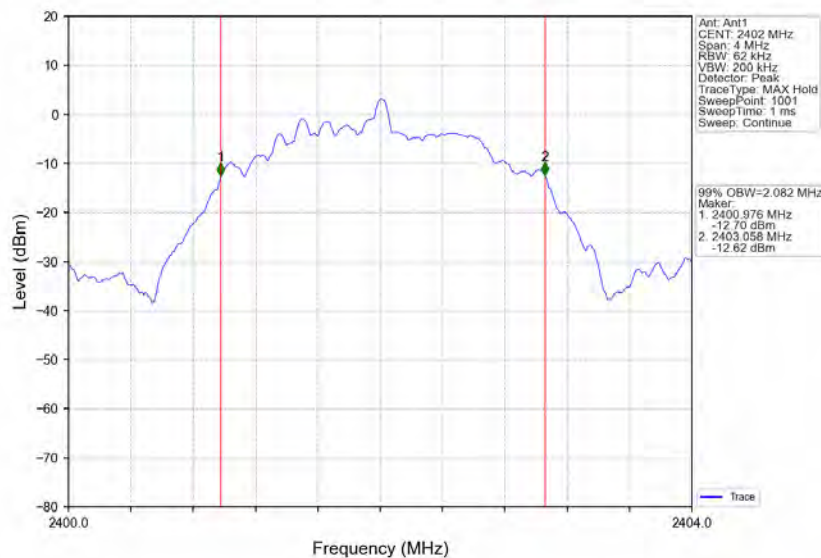
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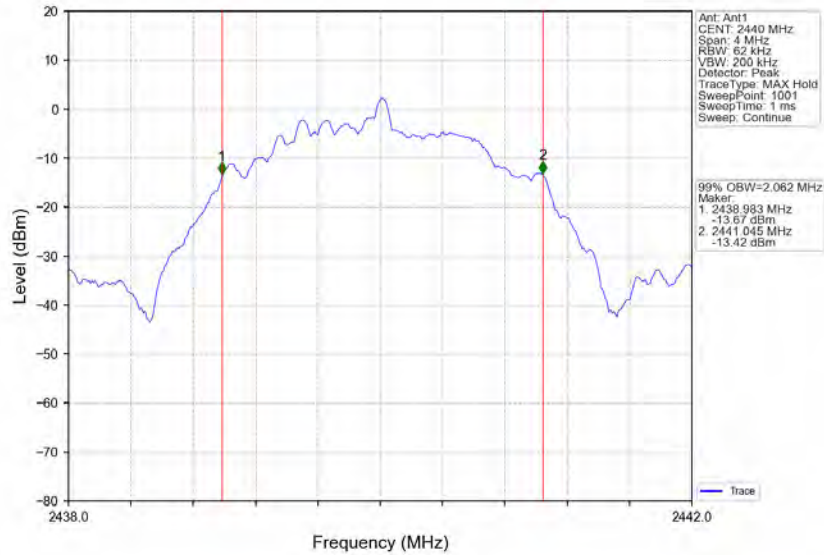
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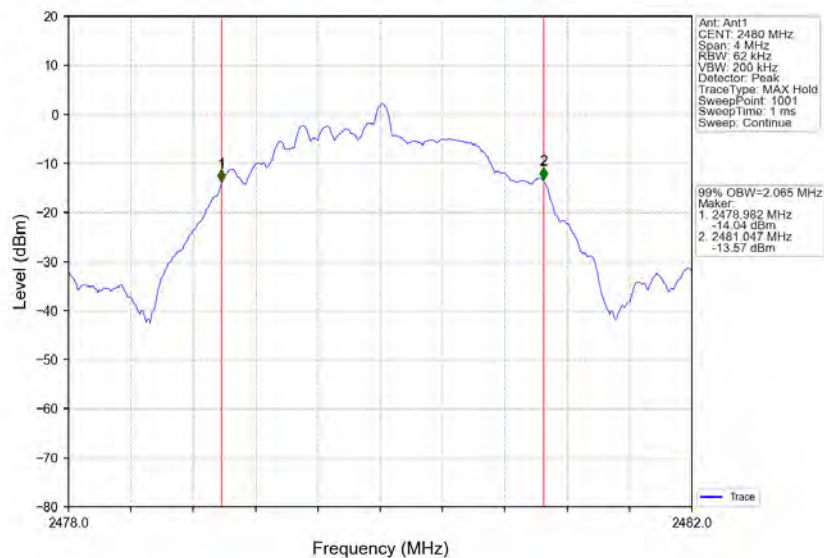
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Report No.: KSCR230100000501

Page: 104 of 125

2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.662	≥ 0.5	Pass
		2440	1	0.661	≥ 0.5	Pass
		2480	1	0.660	≥ 0.5	Pass
2M	SISO	2402	1	1.138	≥ 0.5	Pass
		2440	1	1.125	≥ 0.5	Pass
		2480	1	1.130	≥ 0.5	Pass



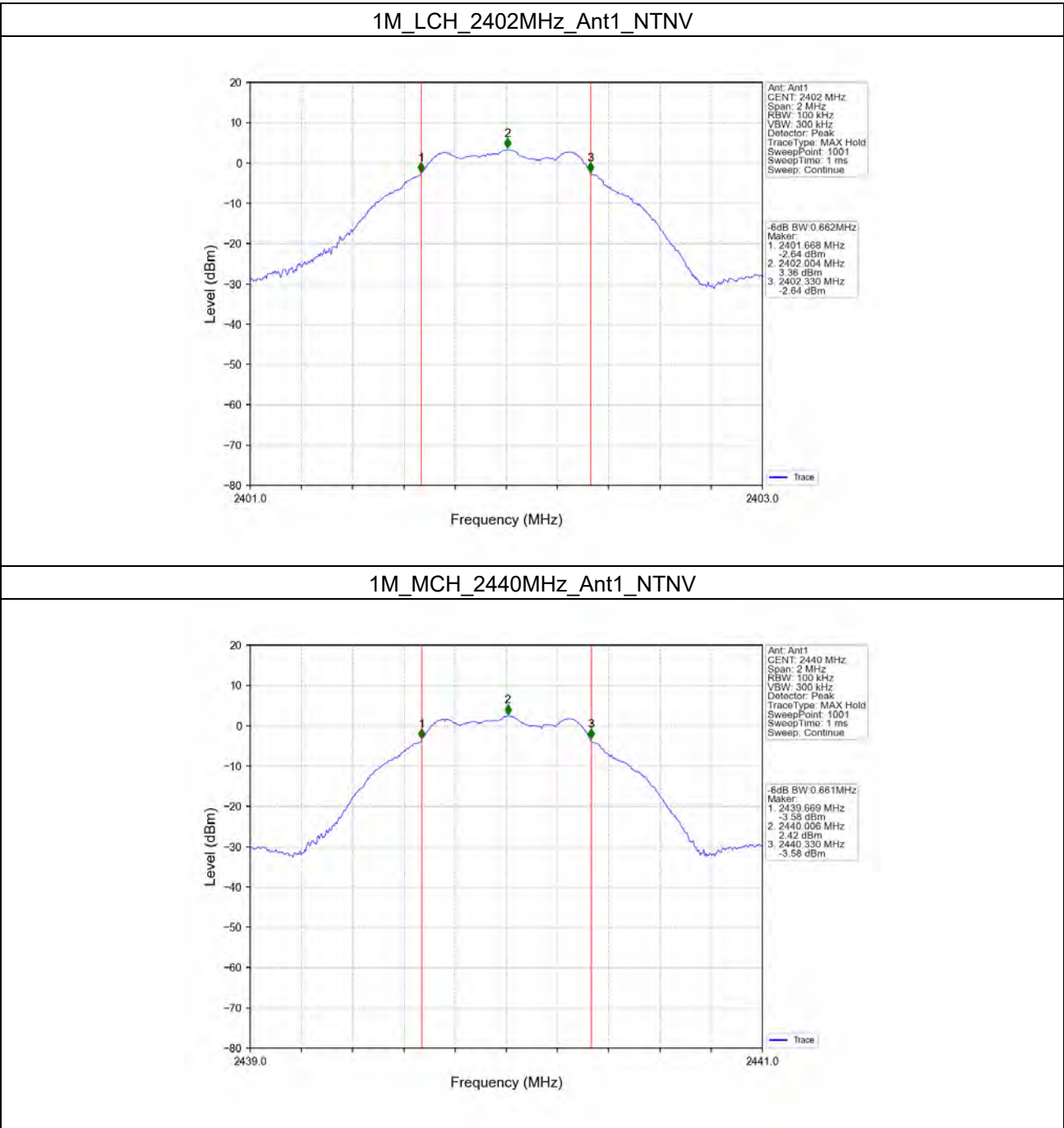
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2.2.2 Test Graph



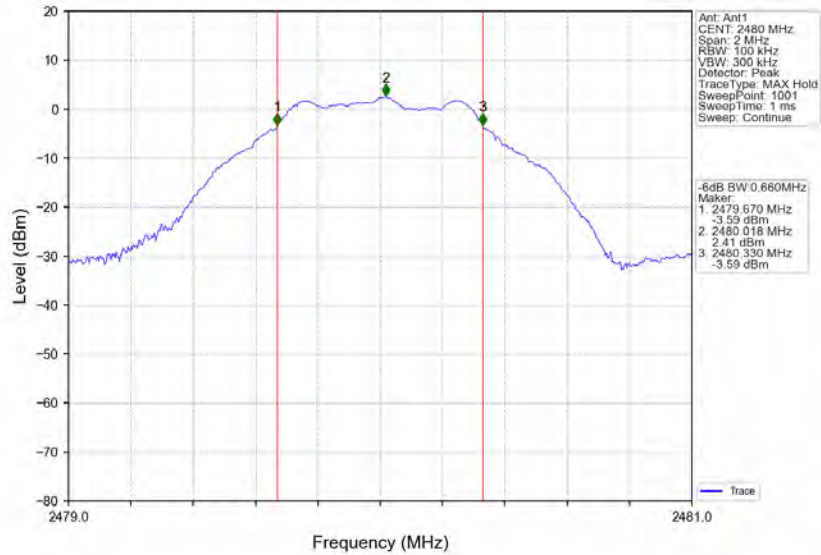
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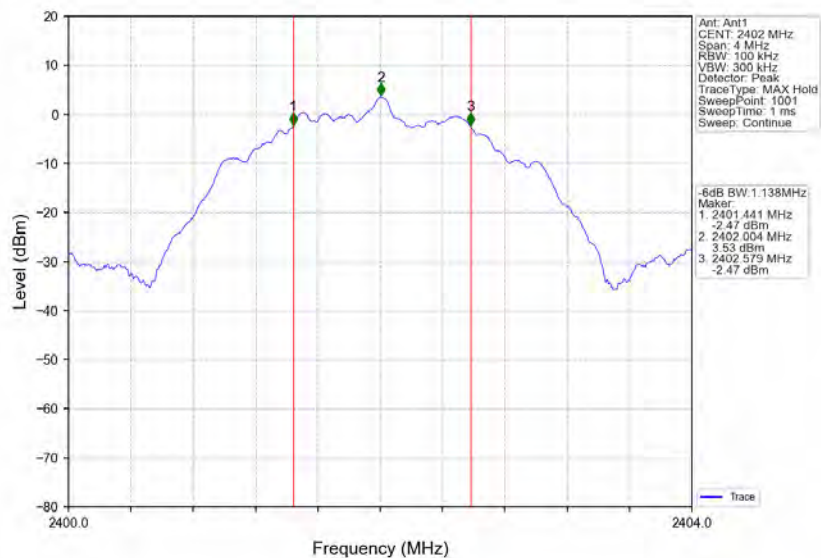
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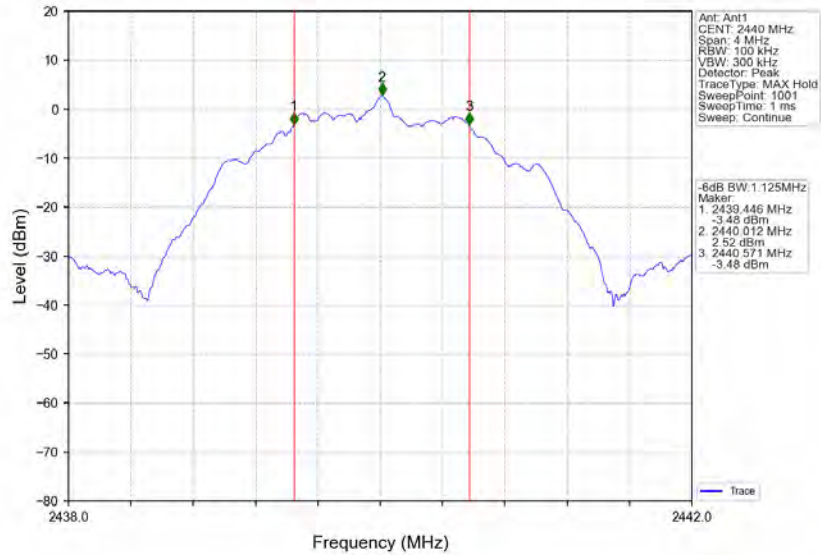
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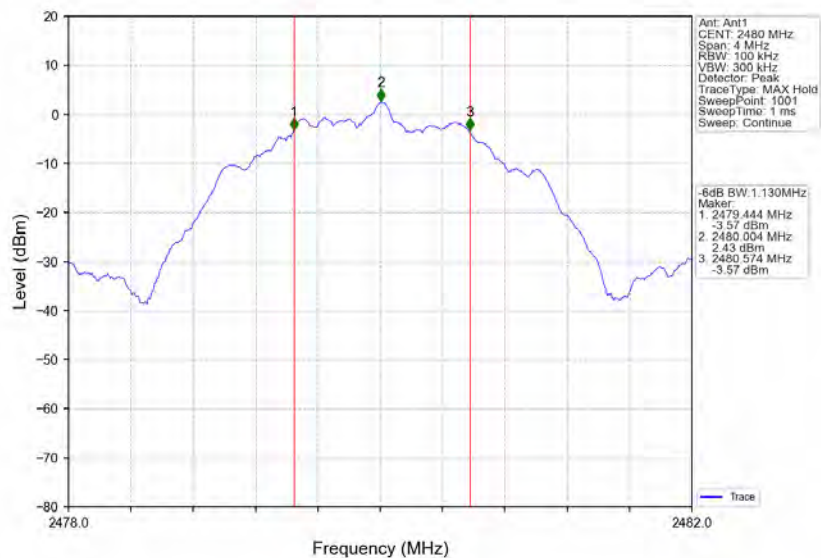
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Page: 108 of 125

3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	3.66	<=30	Pass
		2440	2.70	<=30	Pass
		2480	2.66	<=30	Pass
2M	SISO	2402	3.70	<=30	Pass
		2440	2.72	<=30	Pass
		2480	2.68	<=30	Pass

Note1: Antenna Gain: Ant1: -5.22dBi;



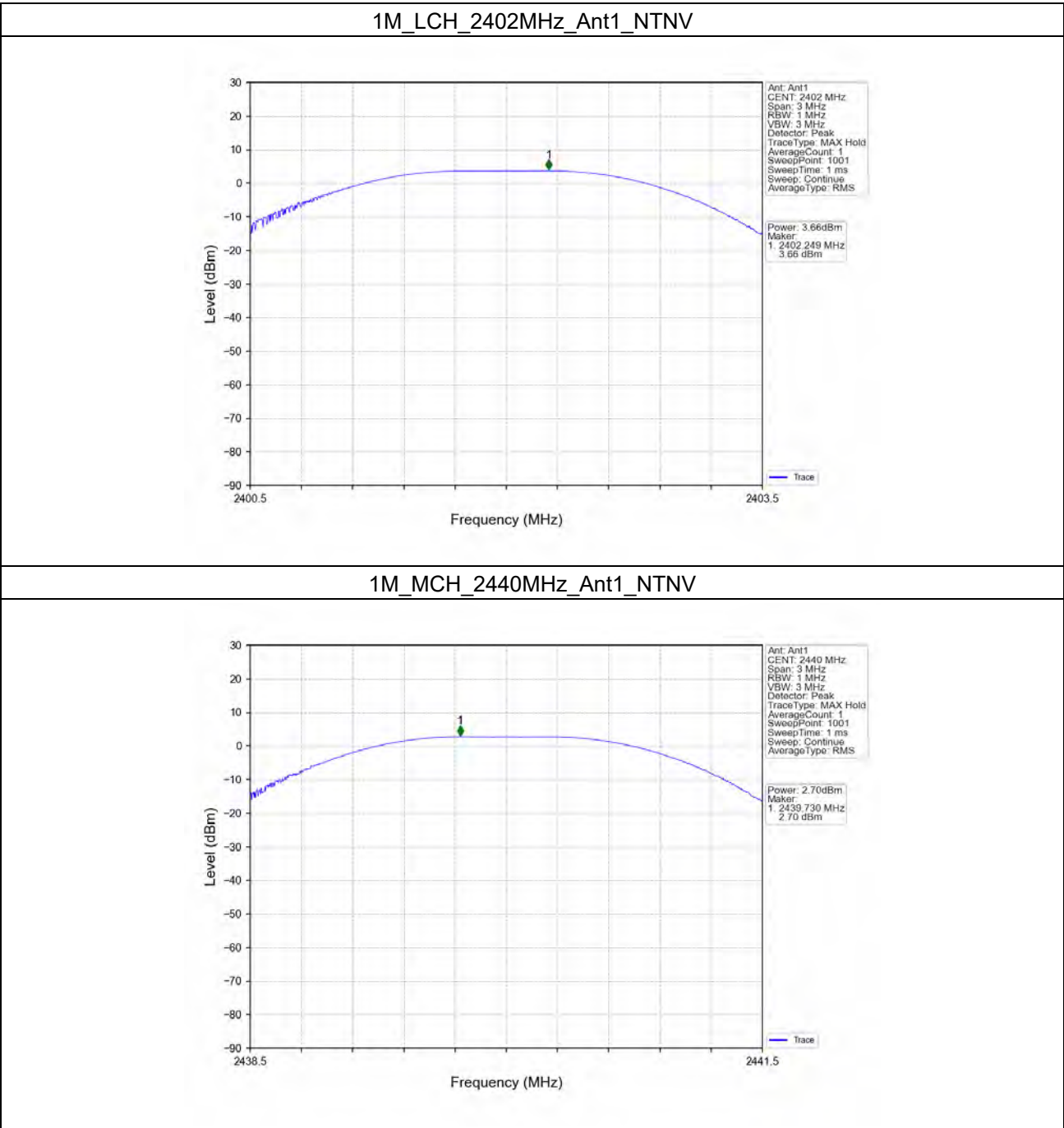
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3.1.2 Test Graph



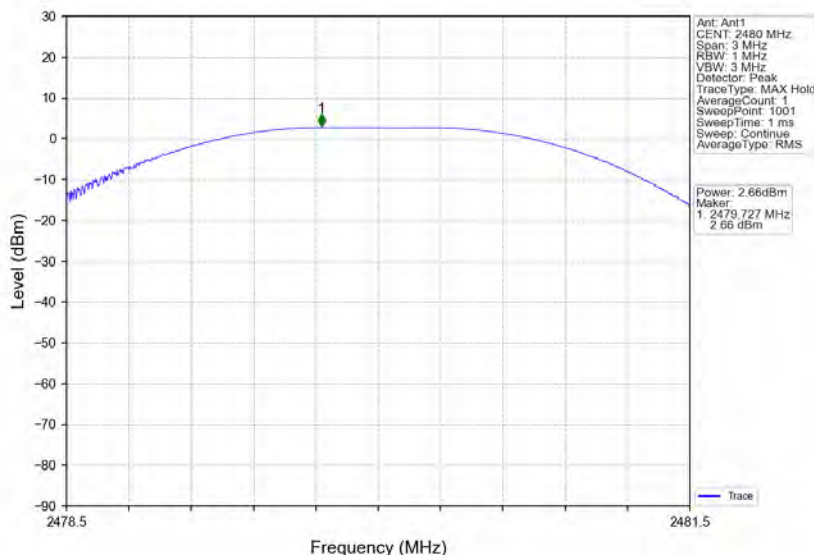
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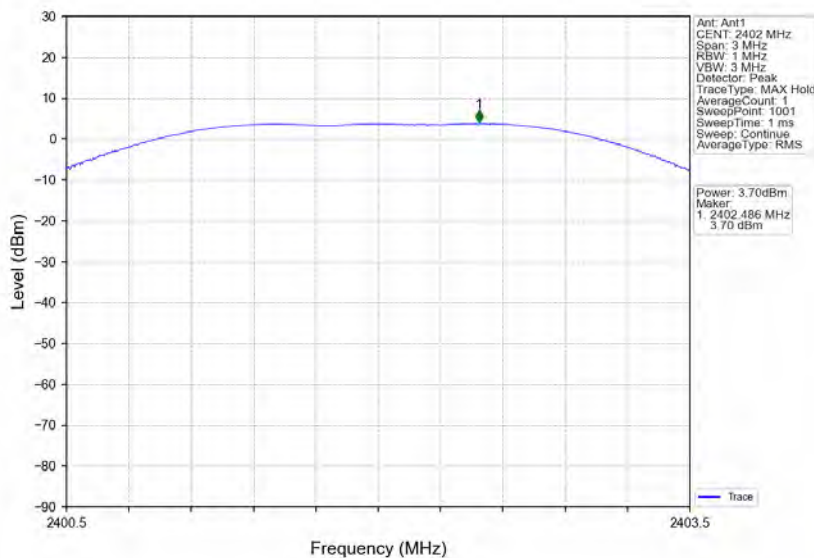
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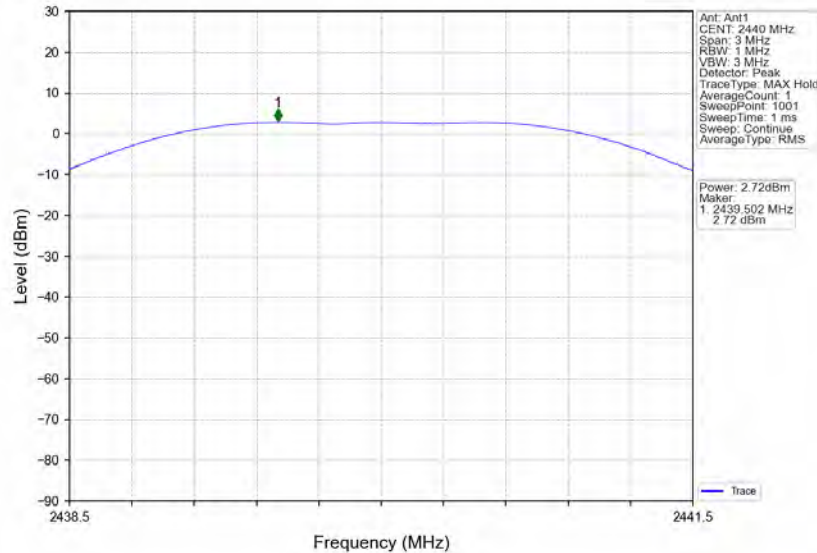
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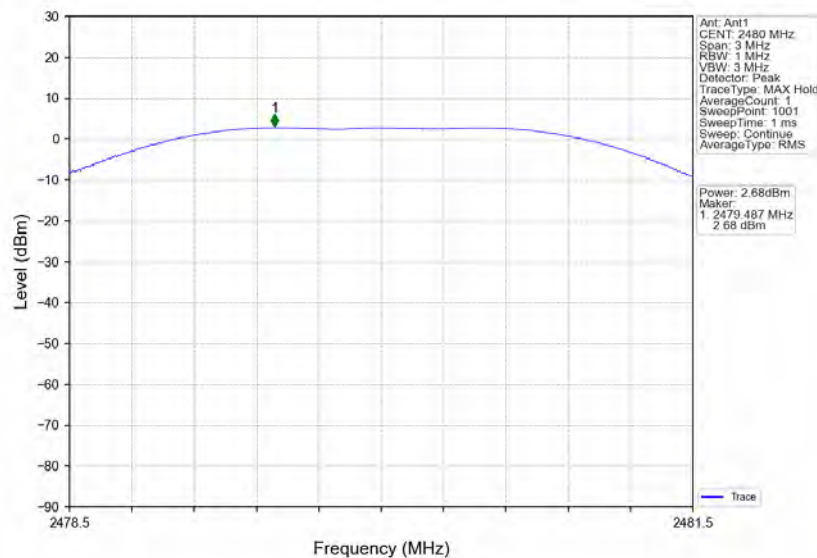
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Page: 112 of 125

4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-12.13	<=8	Pass
		2440	-13.11	<=8	Pass
		2480	-13.11	<=8	Pass
2M	SISO	2402	-14.16	<=8	Pass
		2440	-15.29	<=8	Pass
		2480	-15.32	<=8	Pass

Note1: Antenna Gain: Ant1: -5.22dBi;



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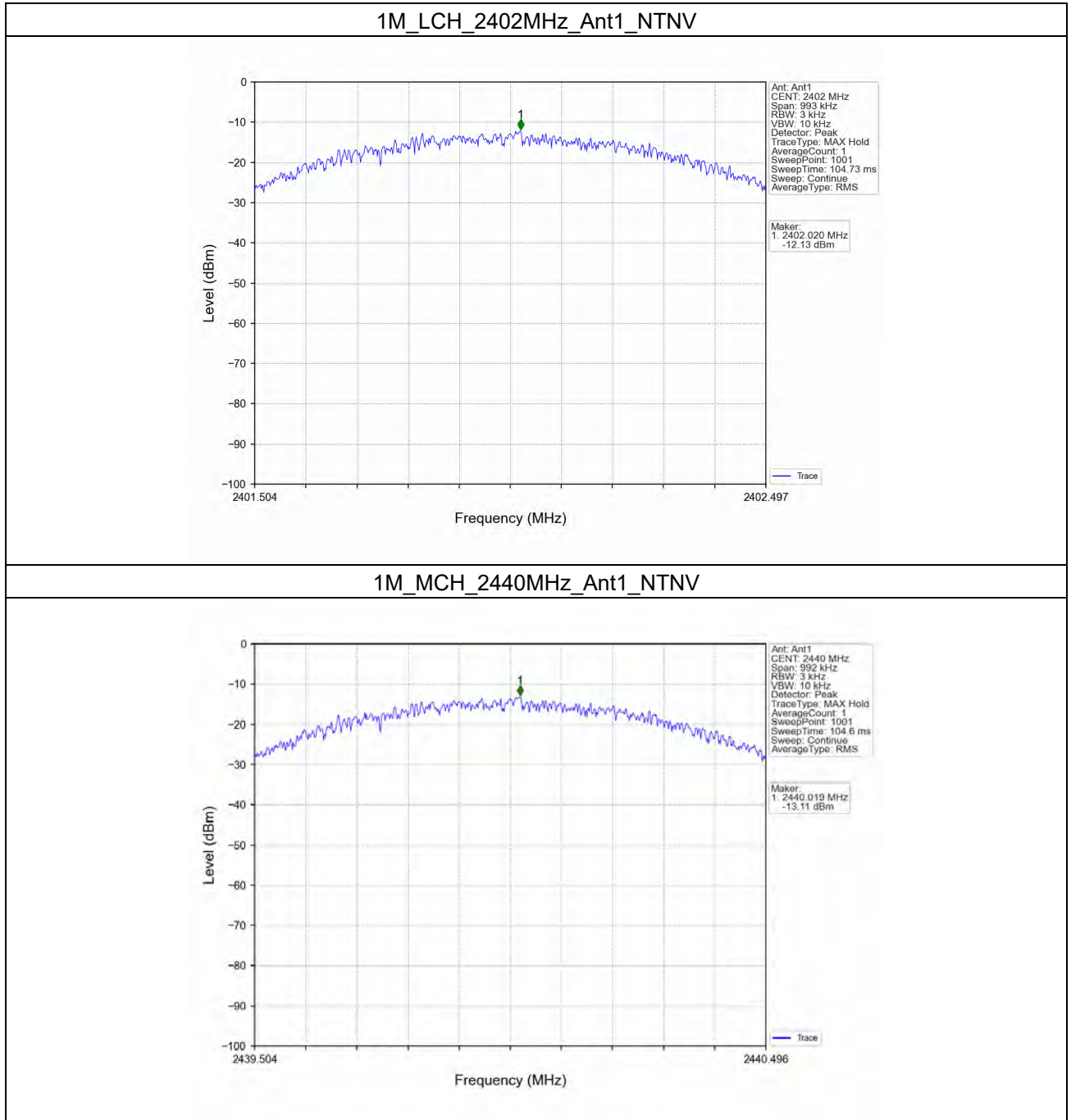
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4.1.2 Test Graph



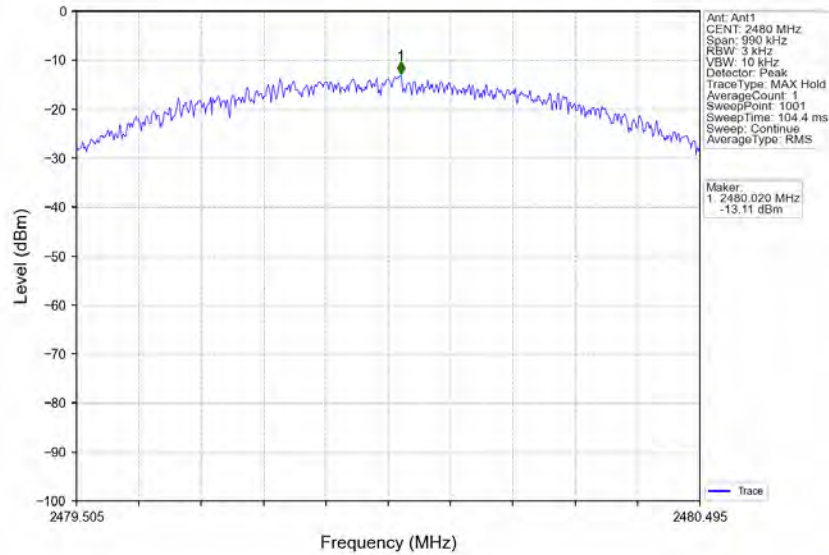
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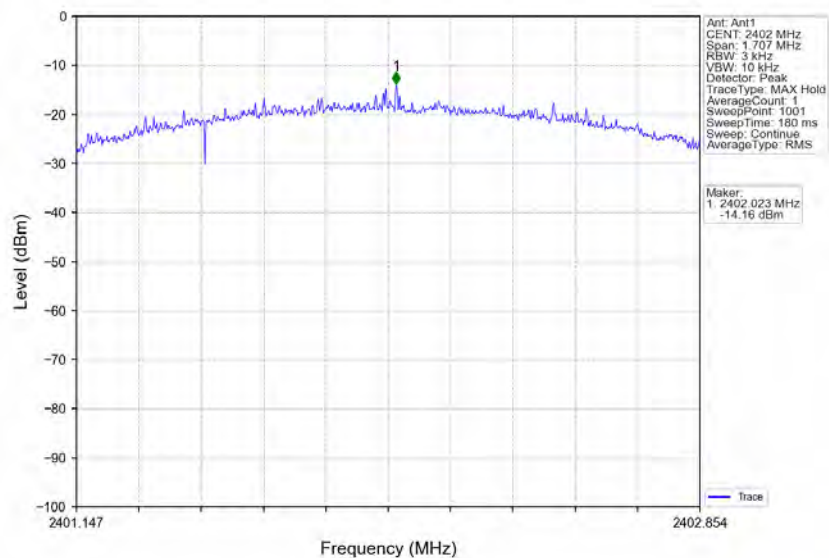
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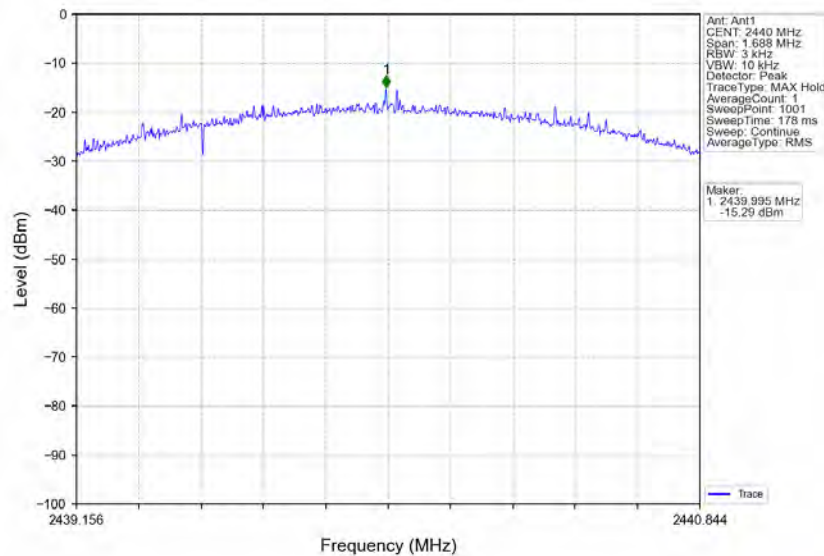
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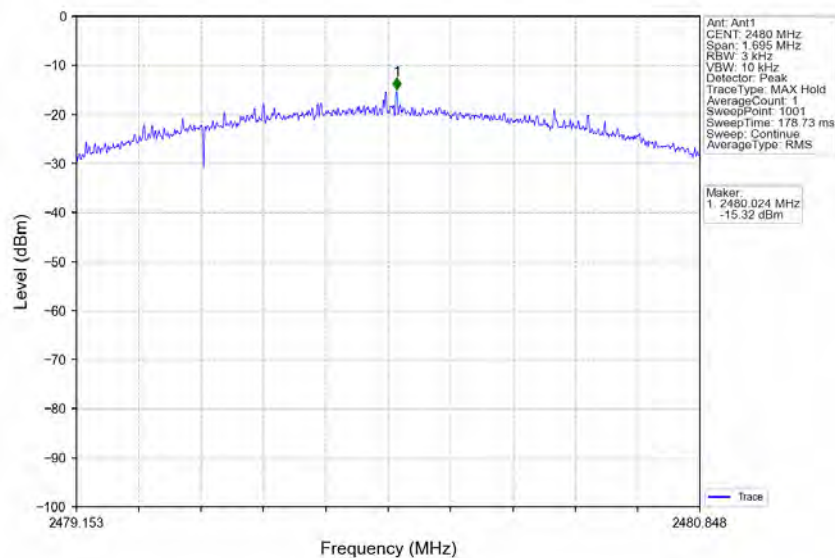
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Page: 116 of 125

5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	3.48
		2440	1	2.43
		2480	1	2.36
2M	SISO	2402	1	3.45
		2440	1	2.48
		2480	1	2.38

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.



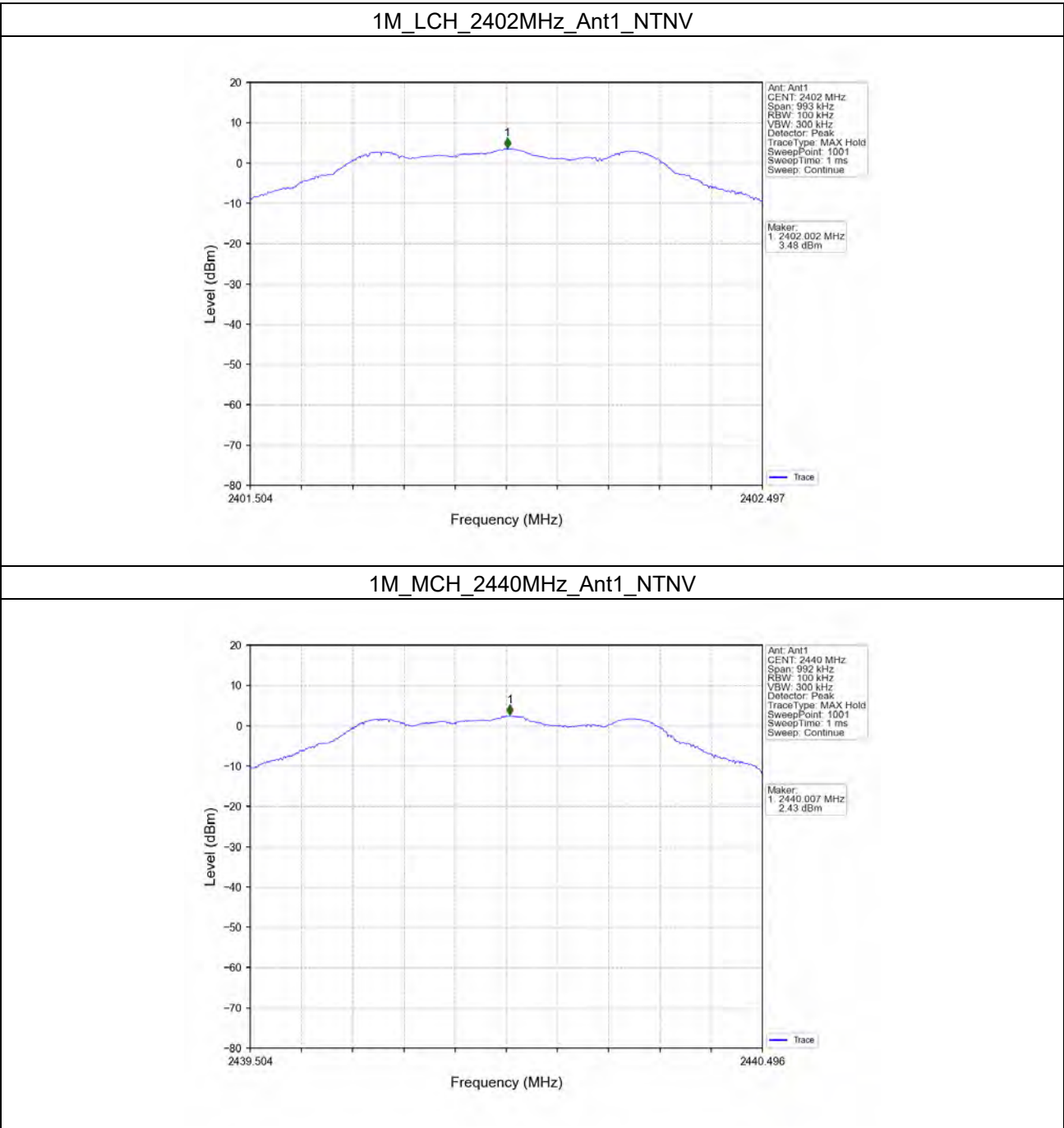
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5.1.2 Test Graph



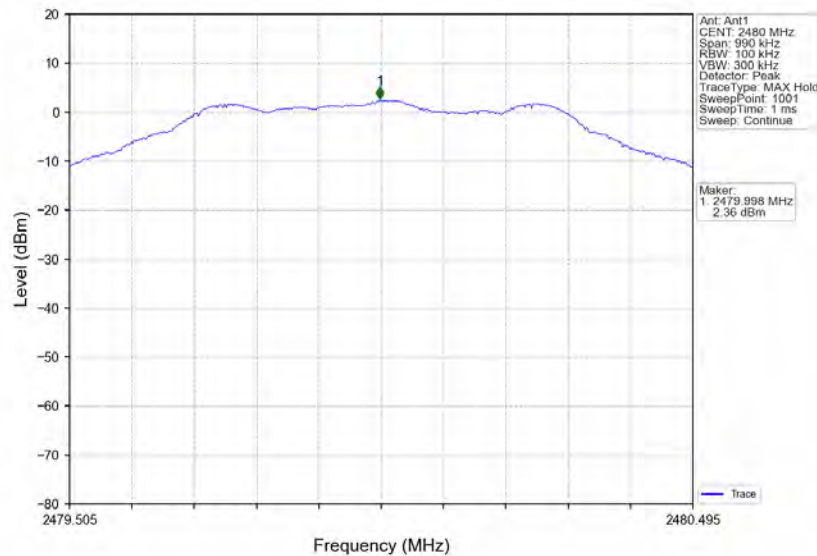
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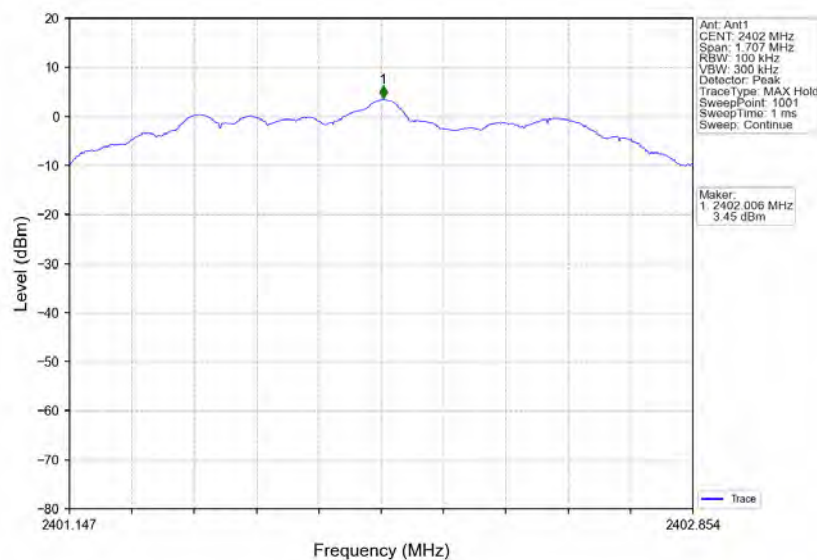
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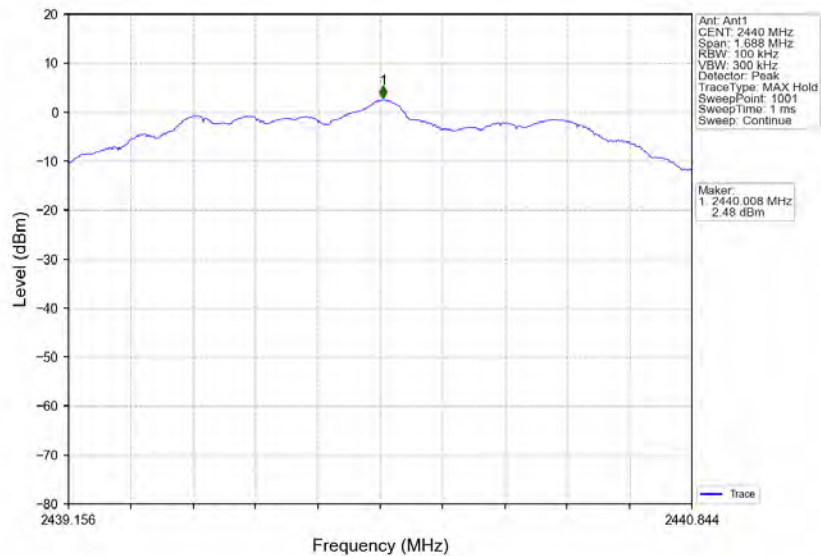
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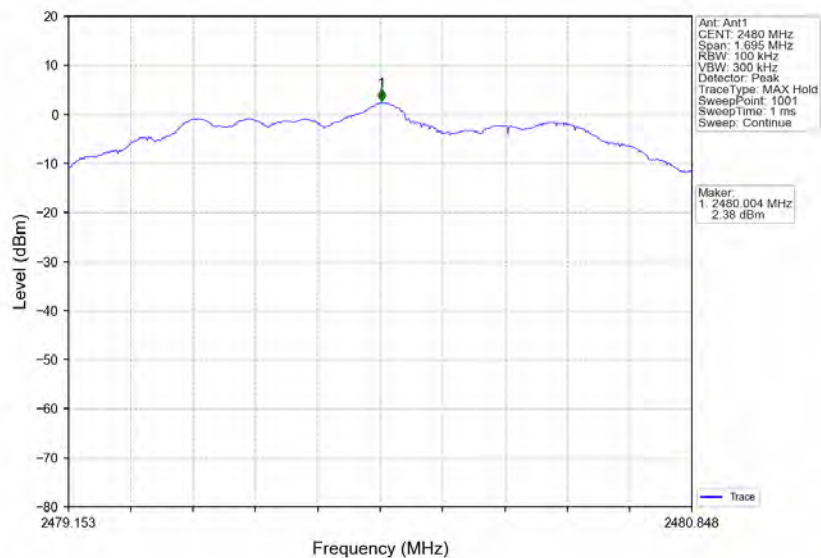
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Report No.: KSCR230100000501

Page: 120 of 125

5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	3.48	-16.52	Pass
		2440	1	3.48	-16.52	Pass
		2480	1	3.48	-16.52	Pass
2M	SISO	2402	1	3.45	-16.55	Pass
		2440	1	3.45	-16.55	Pass
		2480	1	3.45	-16.55	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.



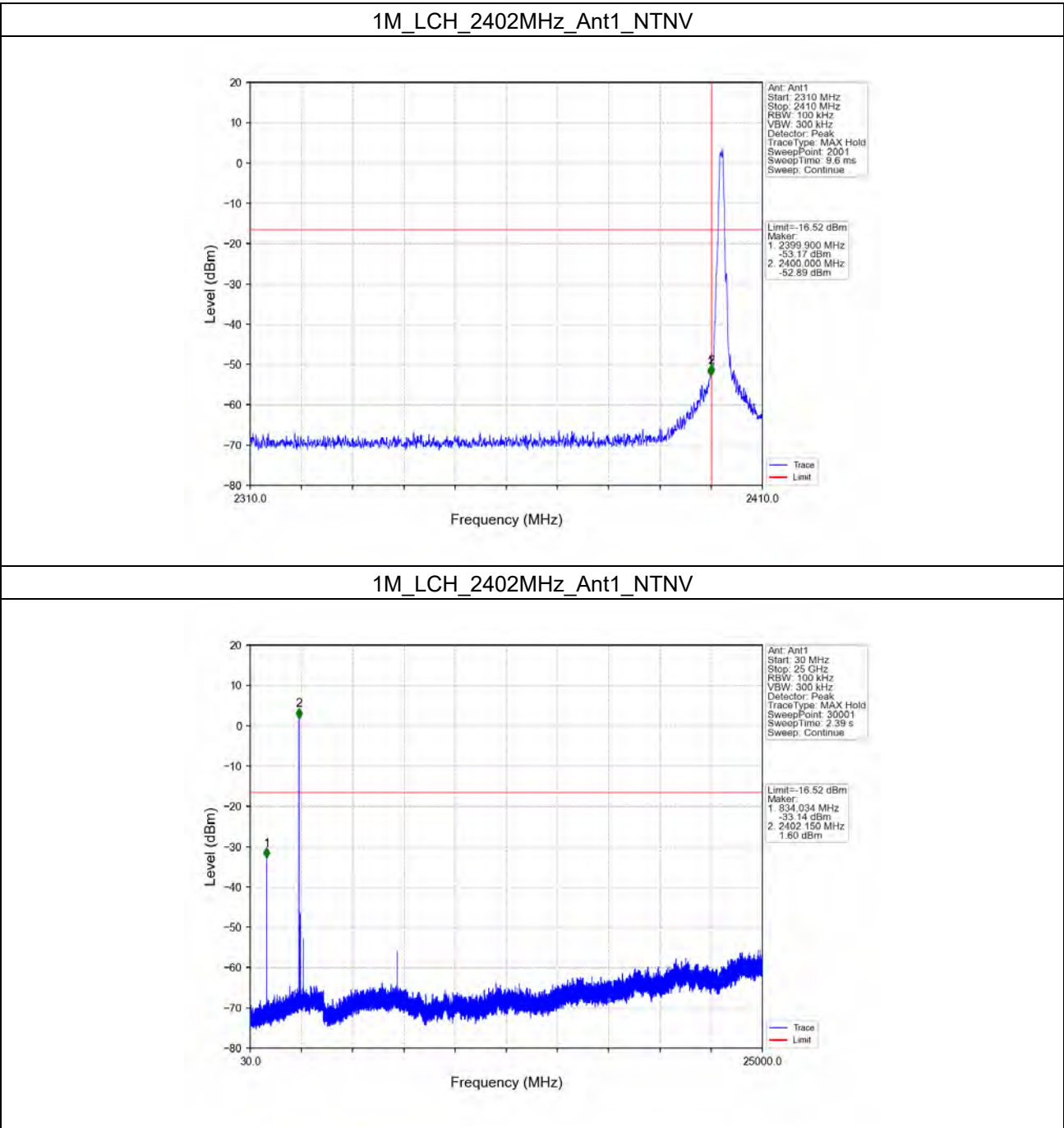
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5.2.2 Test Graph



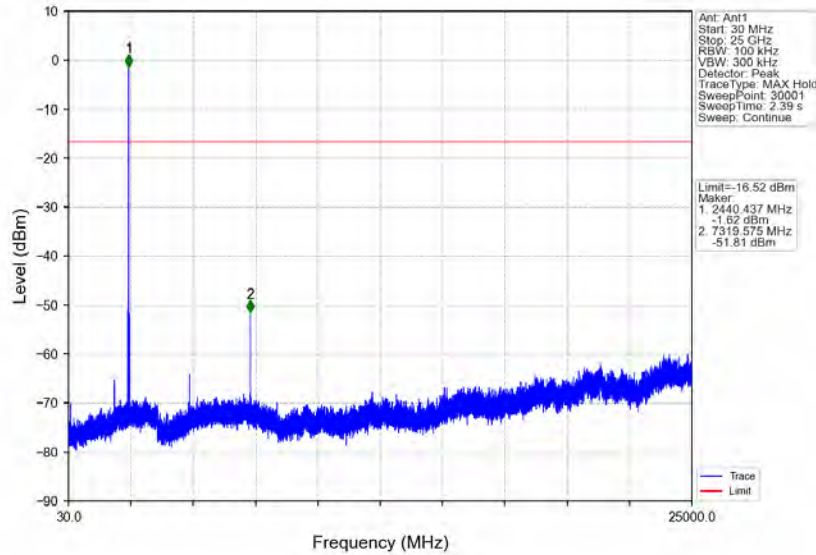
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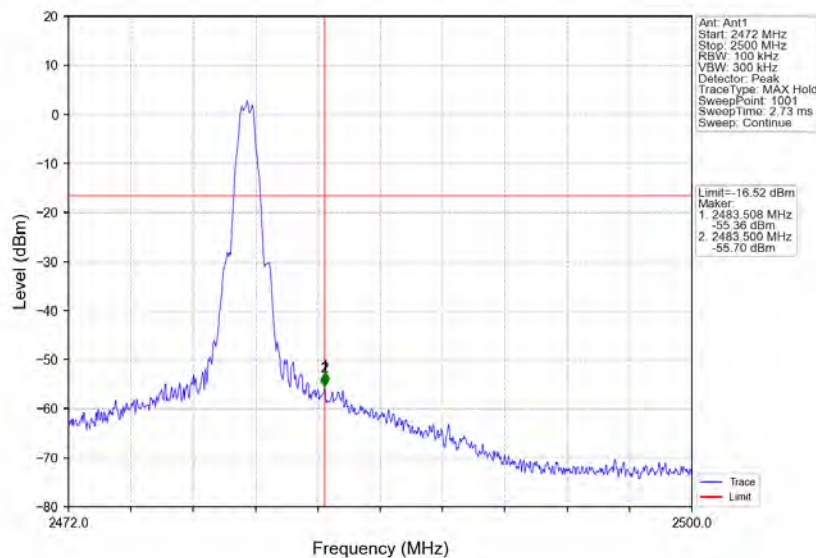
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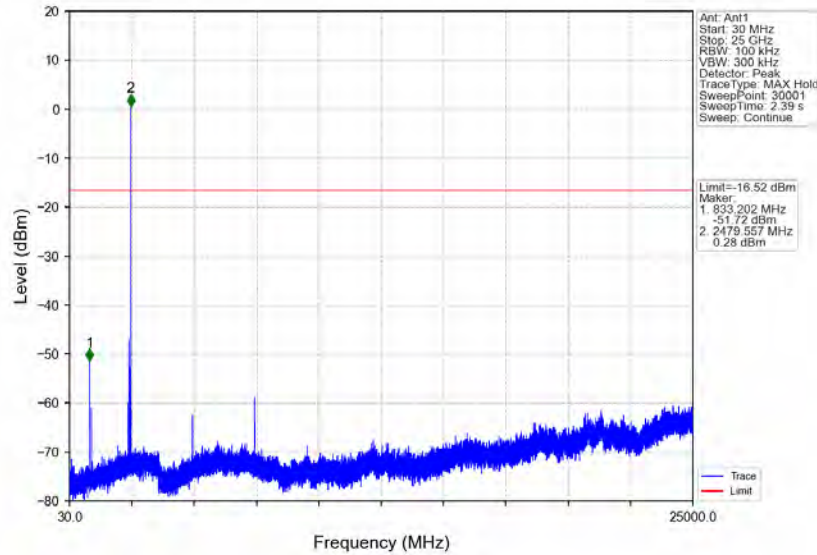
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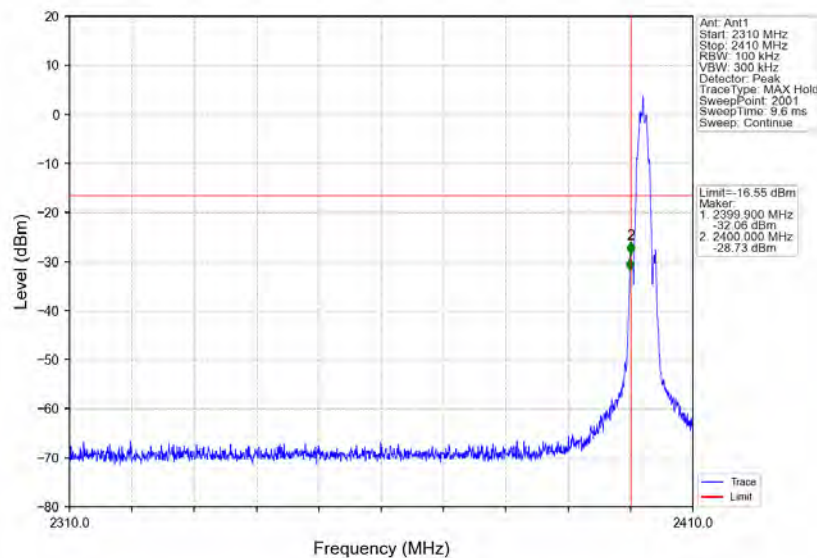
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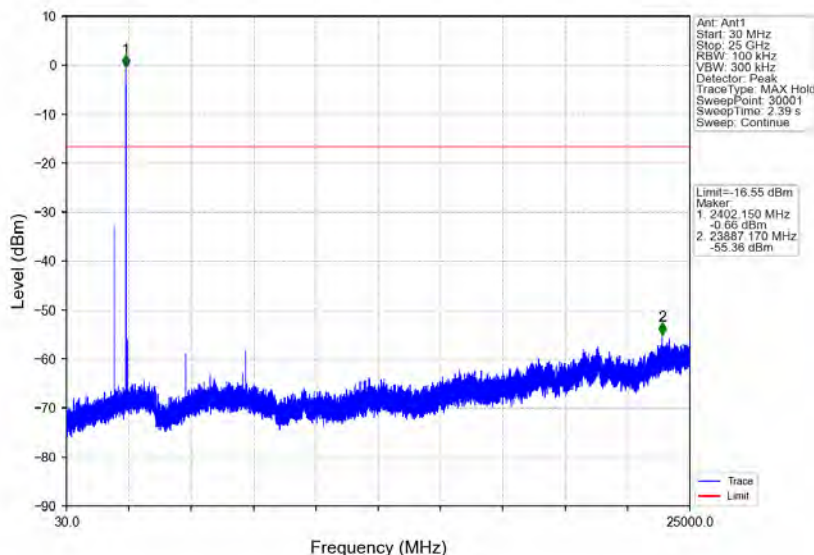
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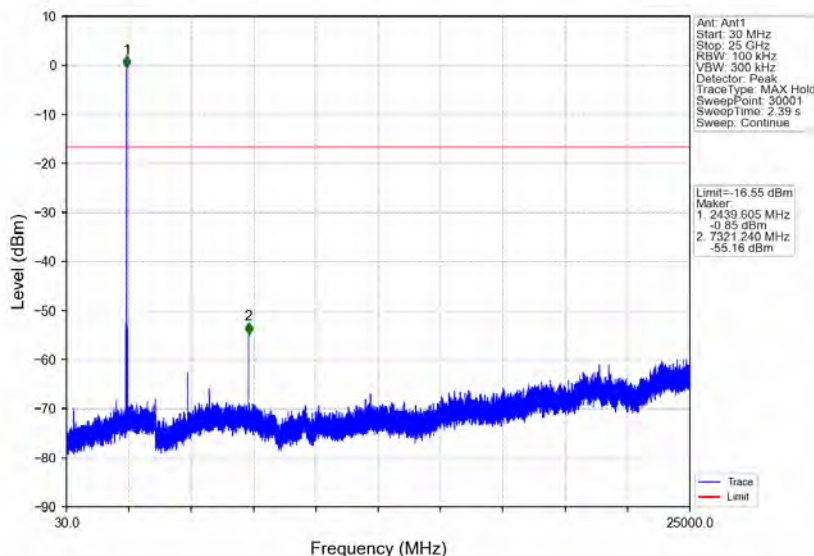
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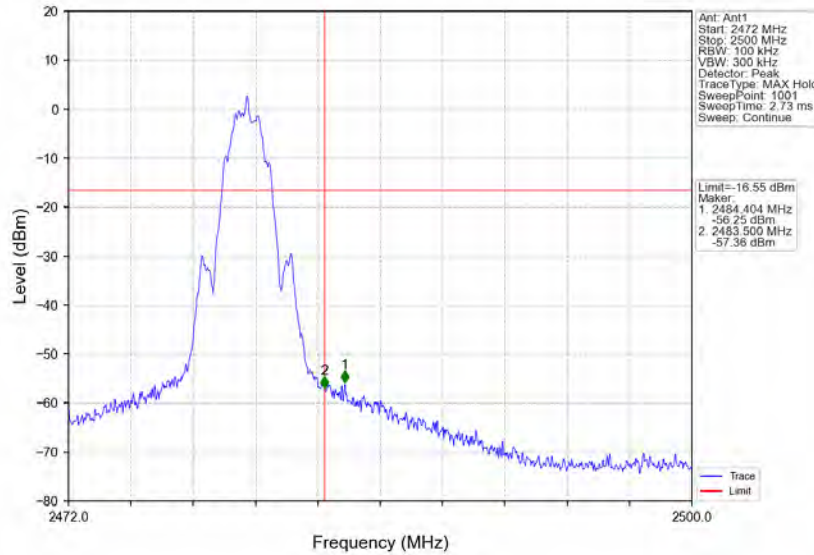
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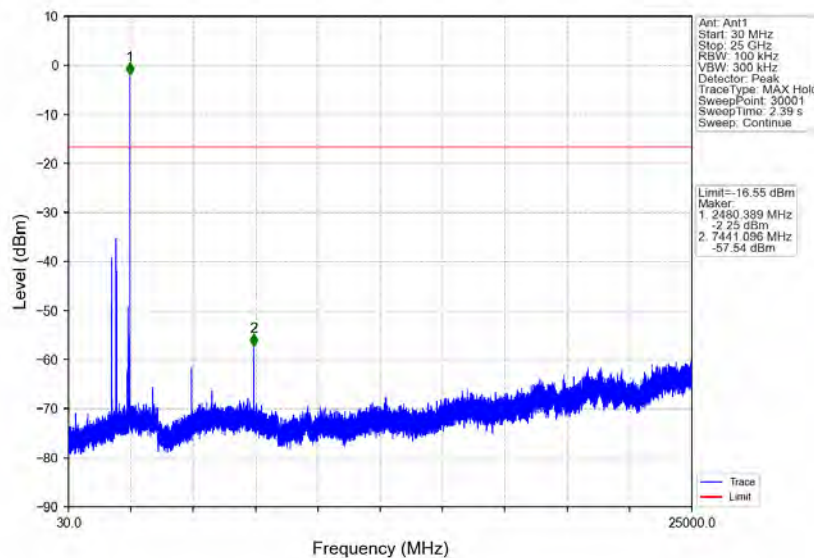
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