

Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220700028503

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TEST REPORT

Application No.: FYCR2207000285AT
Applicant: Dspread Technology (Beijing) Inc
Address of Applicant: Rm.407, B12C, #10(Universal Business Park), Jiuxianqiao Road,Chaoyang District,Beijing, 100027 China
Manufacturer: Dspread Technology (Beijing) Inc
Address of Manufacturer: Rm.407, B12C, #10(Universal Business Park), Jiuxianqiao Road,Chaoyang District,Beijing, 100027 China
Factory: Shenzhen Xin Kingbrand Enterprises Co.Ltd
Address of Factory: Kingbrand Industrial Park, Nanpu Road, Shajing Street, Baoan District, Shenzhen, China
Equipment Under Test (EUT):
EUT Name: Smart Pos
Model No.: D30
FCC ID: 2AGQ6-D30
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2022-07-27
Date of Test: 2022-08-08 to 2022-09-29
Date of Issue: 2022-10-22

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

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

Winkey Wang

Winkey Wang
EMC Technical Manager



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| Revision Record | | | | |
|-----------------|---------|------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2022-10-22 | | Original |
| | | | | |
| | | | | |

| | | | | |
|--------------------------|--|----------------------------|--|--|
| Authorized for issue by: | | | | |
| | | Tree Zhan | | |
| | | Tree Zhan/Project Engineer | | |
| | | Winkey Wang | | |
| | | Winkey Wang/Reviewer | | |



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2 Test Summary

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

| Radio Spectrum Matter Part | | | | |
|---|----------------------------------|--------------------------------------|---|--------|
| Item | Standard | Method | Requirement | Result |
| Conducted Emissions at AC Power Line (150kHz-30MHz) | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 6.2 | 47 CFR Part 15, Subpart C 15.207 | Pass |
| Conducted Peak Output Power | | ANSI C63.10 (2013) Section 11.9.1 | 47 CFR Part 15, Subpart C 15.247(b)(3) | Pass |
| Minimum 6dB Bandwidth | | ANSI C63.10 (2013) Section 11.8.1 | 47 CFR Part 15, Subpart C 15.247a(2) | Pass |
| Power Spectrum Density | | ANSI C63.10 (2013) Section 11.10.2 | 47 CFR Part 15, Subpart C 15.247(e) | Pass |
| Conducted Band Edges Measurement | | ANSI C63.10 (2013) Section 11.13.3.2 | 47 CFR Part 15, Subpart C 15.247(d) | Pass |
| Conducted Spurious Emissions | | ANSI C63.10 (2013) Section 11.11 | 47 CFR Part 15, Subpart C 15.247(d) | Pass |
| 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 |



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4 General Information

4.1 Details of E.U.T.

| | |
|----------------------|--|
| Power supply: | Powered by DC3.7V by Rechargeable Li-ion Battery Model: D30 11CR19/66-2 Charged by AC adapter M/N: TPA-46050200UU Input: AC 100-240V, 50/60Hz, 0.3A Adapter output: DC5V, 2000mA |
| Cable(s): | Type-C cable: 101cm unshielded cable without ferrite core |
| Operation Frequency: | 2402MHz to 2480MHz |
| Bluetooth Version: | V4.2 Dual mode |
| Modulation Type: | GFSK |
| Number of Channels: | 40 |
| Channel Spacing: | 2MHz |
| Antenna Type: | PIFA Antenna |
| Antenna Gain: | 1.8dBi |

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

4.2 Description of Support Units

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

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

| Test Item | Measurement Uncertainty |
|---|------------------------------|
| Conducted Emissions at AC Power Line (150kHz-30MHz) | ± 2.1 dB (9kHz to 30MHz) |
| Conducted Peak Output Power | ± 0.8 dB |
| Minimum 6dB Bandwidth | $\pm 0.3\%$ |
| Power Spectrum Density | ± 0.4 dB |
| Conducted Band Edges Measurement | ± 2.7 dB |
| Conducted Spurious Emissions | ± 2.7 dB |
| Radiated Emissions which fall in the restricted bands | ± 4.4 dB (Above 1GHz) |
| Radiated Spurious Emissions Below 1GHz | ± 3.1 dB (Below 1GHz) |
| Radiated Spurious Emissions Above 1GHz | ± 4.4 dB (Above 1GHz) |

Remark:

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

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



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4.4 Test Location

All tests were performed at:

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Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

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

• A2LA (Certificate No. 6606.01)

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 6606.01.

• FCC –Designation Number: CN1322

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

• Innovation, Science and Economic Development Canada

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

| Conducted Emissions at AC Power Line (150kHz-30MHz) | | | | | |
|---|-----------------|-----------|---------------|-----------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| Shielding Room | CRT | N/A | SEM001-14 | 2021/7/13 | 2024/7/12 |
| EMI Test Receiver | Rohde & Schwarz | ESCI | SEM004-01 | 2022/7/12 | 2023/7/11 |
| Two-Line V-Network | Rohde & Schwarz | ENV216 | SEM007-16 | 2022/7/12 | 2023/7/11 |
| Two-Line V-Network | Rohde & Schwarz | ESH3-Z5 | SEM007-22 | 2022/1/10 | 2023/1/9 |

| Minimum 6dB Bandwidth | | | | | |
|---|------------------------------|---------------|---------------|-----------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| Programmable Temperature & Humidity Chamber | Votsch Industrietechnik GmbH | VT 4002 | SEM002-15 | 2022/7/12 | 2023/7/11 |
| MXA Signal Analyzer | Agilent | N9020A | SEM004-20 | 2022/7/12 | 2023/7/11 |
| Signal Generator | Agilent | N5173B | SEM006-05 | 2022/7/12 | 2023/7/11 |
| ESG Vector Signal Generator | Agilent | E4438C | SEM006-15 | 2022/7/12 | 2023/7/11 |
| Power Sensor | Erika Fiedler | U2021XA | SEM009-15 | 2022/7/12 | 2023/7/11 |
| Power Sensor | Erika Fiedler | U2021XA | SEM009-16 | 2022/7/12 | 2023/7/11 |
| Wideband Radio Communication Tester | Rohde & Schwarz | CMW 500 | SEM010-08 | 2022/7/12 | 2023/7/11 |
| Programmable DC Source | Chroma | 62024P-80-60 | SEM011-09 | 2022/7/12 | 2023/7/11 |
| Attenuator | Huber+Suhner | 6620_SMA-50-1 | SEM021-09 | 2022/7/12 | 2023/7/11 |
| Measurement Software | TST PASS | TST PASS V2.0 | N/A | N/A | N/A |

| Power Spectrum Density | | | | | |
|---|------------------------------|-----------|---------------|-----------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| Programmable Temperature & Humidity Chamber | Votsch Industrietechnik GmbH | VT 4002 | SEM002-15 | 2022/7/12 | 2023/7/11 |
| MXA Signal Analyzer | Agilent | N9020A | SEM004-20 | 2022/7/12 | 2023/7/11 |
| Signal Generator | Agilent | N5173B | SEM006-05 | 2022/7/12 | 2023/7/11 |
| ESG Vector Signal Generator | Agilent | E4438C | SEM006-15 | 2022/7/12 | 2023/7/11 |
| Power Sensor | Erika Fiedler | U2021XA | SEM009-15 | 2022/7/12 | 2023/7/11 |
| Power Sensor | Erika Fiedler | U2021XA | SEM009-16 | 2022/7/12 | 2023/7/11 |
| Wideband Radio | Rohde & Schwarz | CMW 500 | SEM010-08 | 2022/7/12 | 2023/7/11 |



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| | | | | | |
|------------------------|--------------|---------------|-----------|-----------|-----------|
| Communication Tester | | | | | |
| Measurement Software | TST PASS | TST PASS V2.0 | N/A | N/A | N/A |
| Programmable DC Source | Chroma | 62024P-80-60 | SEM011-09 | 2022/7/12 | 2023/7/11 |
| Attenuator | Huber+Suhner | 6620_SMA-50-1 | SEM021-09 | 2022/7/12 | 2023/7/11 |

Conducted Band Edges Measurement

| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
|---|------------------------------|---------------|---------------|-----------|--------------|
| Programmable Temperature & Humidity Chamber | Votsch Industrietechnik GmbH | VT 4002 | SEM002-15 | 2022/7/12 | 2023/7/11 |
| MXA Signal Analyzer | Agilent | N9020A | SEM004-20 | 2022/7/12 | 2023/7/11 |
| Signal Generator | Agilent | N5173B | SEM006-05 | 2022/7/12 | 2023/7/11 |
| ESG Vector Signal Generator | Agilent | E4438C | SEM006-15 | 2022/7/12 | 2023/7/11 |
| Power Sensor | Erika Fiedler | U2021XA | SEM009-15 | 2022/7/12 | 2023/7/11 |
| Power Sensor | Erika Fiedler | U2021XA | SEM009-16 | 2022/7/12 | 2023/7/11 |
| Wideband Radio Communication Tester | Rohde & Schwarz | CMW 500 | SEM010-08 | 2022/7/12 | 2023/7/11 |
| Programmable DC Source | Chroma | 62024P-80-60 | SEM011-09 | 2022/7/12 | 2023/7/11 |
| Attenuator | Huber+Suhner | 6620_SMA-50-1 | SEM021-09 | 2022/7/12 | 2023/7/11 |
| Measurement Software | TST PASS | TST PASS V2.0 | N/A | N/A | N/A |

Conducted Spurious Emissions

| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
|---|------------------------------|--------------|---------------|-----------|--------------|
| Programmable Temperature & Humidity Chamber | Votsch Industrietechnik GmbH | VT 4002 | SEM002-15 | 2022/7/12 | 2023/7/11 |
| MXA Signal Analyzer | Agilent | N9020A | SEM004-20 | 2022/7/12 | 2023/7/11 |
| Signal Generator | Agilent | N5173B | SEM006-05 | 2022/7/12 | 2023/7/11 |
| ESG Vector Signal Generator | Agilent | E4438C | SEM006-15 | 2022/7/12 | 2023/7/11 |
| Power Sensor | Erika Fiedler | U2021XA | SEM009-15 | 2022/7/12 | 2023/7/11 |
| Power Sensor | Erika Fiedler | U2021XA | SEM009-16 | 2022/7/12 | 2023/7/11 |
| Wideband Radio Communication Tester | Rohde & Schwarz | CMW 500 | SEM010-08 | 2022/7/12 | 2023/7/11 |
| Programmable DC Source | Chroma | 62024P-80-60 | SEM011-09 | 2022/7/12 | 2023/7/11 |



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|----------------------|--------------|---------------|-----------|-----------|-----------|
| Attenuator | Huber+Suhner | 6620_SMA-50-1 | SEM021-09 | 2022/7/12 | 2023/7/11 |
| Measurement Software | TST PASS | TST PASS V2.0 | N/A | N/A | N/A |

Radiated Emissions which fall in the restricted bands

| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
|-------------------------|------------------------------------|-----------------|---------------|-----------|--------------|
| 3m Anechoic Chamber | CRT | N/A | SEM001-13 | 2021/7/13 | 2024/7/12 |
| Broad-Band Horn Antenna | Schwarzbeck | BBHA 9170 | SEM003-15 | 2021/7/11 | 2024/7/10 |
| Broad-Band Horn Antenna | Schwarzbeck | BBHA 9120D | SEM003-32 | 2021/9/26 | 2024/9/25 |
| MXA Signal Analyzer | KEYSIGHT | N9020A | SEM004-23 | 2022/4/24 | 2023/4/23 |
| Pre-amplifier | Compliance Directions Systems Inc. | PAP-2640-50 | SEM005-08 | 2022/7/12 | 2023/7/11 |
| Pre-amplifier | Rohde & Schwarz | CH14-H052 | SEM005-17 | 2022/7/12 | 2023/7/11 |
| Coaxial Cable | CCS | N/A | SEM035-02 | 2022/5/16 | 2023/5/15 |
| Coaxial Cable | CCS | N/A | SEM035-03 | 2022/5/16 | 2023/5/15 |
| Pre-amplifier | TST PASS | LNA04080G30 | SEM005-27 | 2022/4/15 | 2023/4/14 |
| Pre-amplifier | TST PASS | LNA10180G45 | SEM005-28 | 2022/4/15 | 2023/4/14 |
| Measurement Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A |

Radiated Spurious Emissions Below 1GHz

| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
|--------------------------|--------------|-----------------|---------------|-----------|--------------|
| 3m Anechoic Chamber | CRT | N/A | SEM001-13 | 2021/7/13 | 2024/7/12 |
| Trilog-Broadband Antenna | Schwarzbeck | VULB9168 | SEM003-33 | 2021/9/25 | 2024/9/24 |
| MXE EMI receiver | Agilent | N9038A | SEM004-05 | 2022/7/12 | 2023/7/11 |
| Pre-amplifier | HP | 8447D | SEM005-02 | 2022/7/12 | 2023/7/11 |
| Coaxial Cable | CCS | N/A | SEM035-01 | 2022/5/16 | 2023/5/15 |
| Measurement Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A |

Radiated Spurious Emissions Above 1GHz

| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
|-------------------------|--------------|------------|---------------|-----------|--------------|
| 3m Anechoic Chamber | CRT | N/A | SEM001-13 | 2021/7/13 | 2024/7/12 |
| Broad-Band Horn Antenna | Schwarzbeck | BBHA 9120D | SEM003-32 | 2021/9/26 | 2024/9/25 |
| MXA Signal Analyzer | KEYSIGHT | N9020A | SEM004-23 | 2022/4/24 | 2023/4/23 |



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| | | | | | |
|----------------------|----------|-----------------|-----------|-----------|-----------|
| Coaxial Cable | CCS | N/A | SEM035-03 | 2022/5/16 | 2023/5/15 |
| Pre-amplifier | TST PASS | LNA04080G30 | SEM005-27 | 2022/4/15 | 2023/4/14 |
| Pre-amplifier | TST PASS | LNA10180G45 | SEM005-28 | 2022/4/15 | 2023/4/14 |
| Measurement Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A |

| General used equipment | | | | | |
|---------------------------------|--------------|-----------|---------------|------------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| Humidity/ Temperature Indicator | Mingle | TH607 | SEM002-22 | 2022-07-12 | 2023-07-11 |
| Humidity/ Temperature Indicator | Mingle | TH607 | SEM002-23 | 2022-07-12 | 2023-07-11 |
| Barometer | DUMAI | DYM3 | SEM002-24 | 2022-07-12 | 2023-07-11 |



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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 1.8dBi.

Antenna location: Refer to internal photo.



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7 Radio Spectrum Matter Test Results

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

Test Requirement 47 CFR Part 15, Subpart C 15.207

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

Limit:

| Frequency of emission(MHz) | Conducted limit(dBμV) | |
|--|-----------------------|-----------|
| | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56* | 56 to 46* |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |
| *Decreases with the logarithm of the frequency. | | |
| Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz | | |

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 21.7 °C Humidity: 52.6 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Final test | 04 | Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation. |



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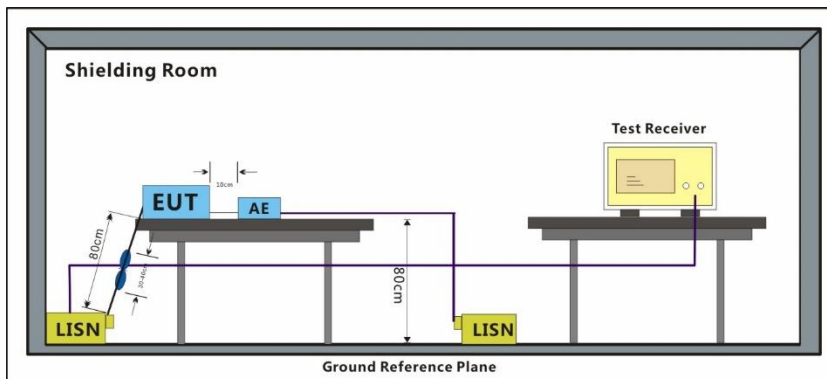
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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

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

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



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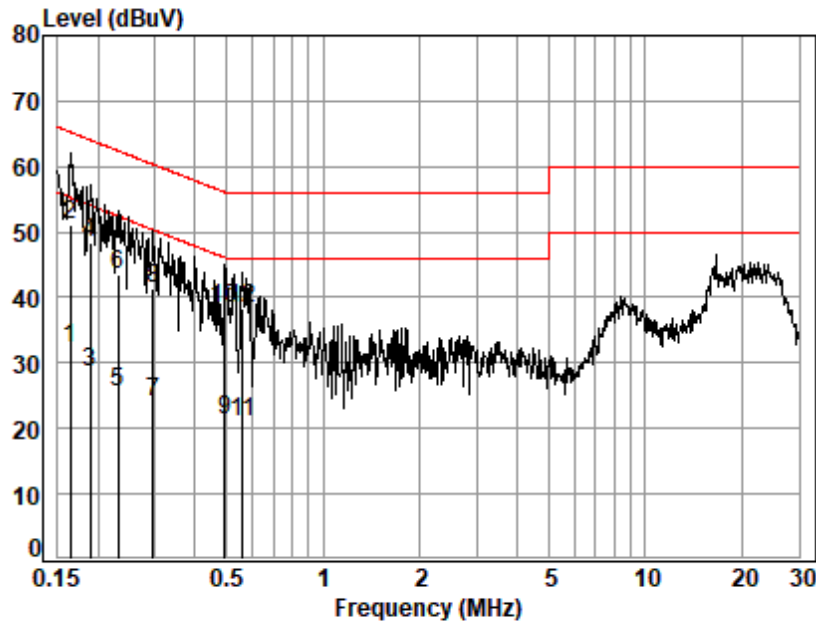
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Test Mode: 04; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 00285AT
Test mode: 04

| | Freq | Cable Loss | LISN Factor | Read Level | Limit Line | Over Limit | Remark |
|----|--------|------------|-------------|------------|------------|------------|----------------|
| | MHz | dB | dB | dBuV | dBuV | dB | |
| 1 | 0.1641 | 0.02 | 0.25 | 32.07 | 32.34 | 55.25 | -22.91 Average |
| 2 | 0.1641 | 0.02 | 0.25 | 50.90 | 51.17 | 65.25 | -14.08 QP |
| 3 | 0.1894 | 0.02 | 0.26 | 28.26 | 28.54 | 54.06 | -25.52 Average |
| 4 | 0.1894 | 0.02 | 0.26 | 48.05 | 48.33 | 64.06 | -15.73 QP |
| 5 | 0.2304 | 0.02 | 0.26 | 25.13 | 25.41 | 52.44 | -27.03 Average |
| 6 | 0.2304 | 0.02 | 0.26 | 43.09 | 43.37 | 62.44 | -19.07 QP |
| 7 | 0.2955 | 0.03 | 0.26 | 23.71 | 24.00 | 50.37 | -26.37 Average |
| 8 | 0.2955 | 0.03 | 0.26 | 40.93 | 41.22 | 60.37 | -19.15 QP |
| 9 | 0.4941 | 0.01 | 0.27 | 20.95 | 21.23 | 46.10 | -24.87 Average |
| 10 | 0.4941 | 0.01 | 0.27 | 38.12 | 38.40 | 56.10 | -17.70 QP |
| 11 | 0.5611 | 0.04 | 0.25 | 20.81 | 21.10 | 46.00 | -24.90 Average |
| 12 | 0.5611 | 0.04 | 0.25 | 38.10 | 38.39 | 56.00 | -17.61 QP |



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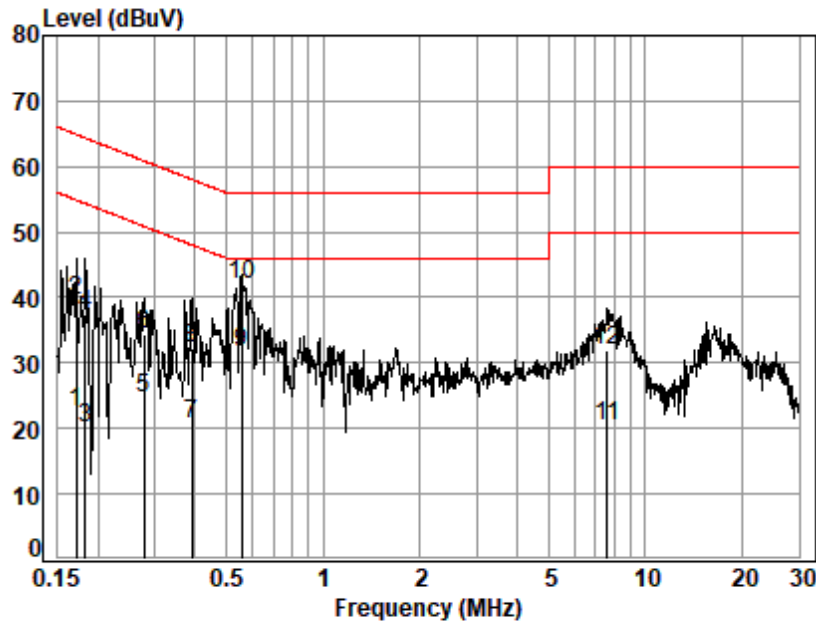
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Test Mode: 04; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 00285AT
Test mode: 04

| | Freq | Cable Loss | LISN Factor | Read Level | Limit Line | Over Limit | Remark |
|----|--------|------------|-------------|------------|------------|------------|----------------|
| | MHz | dB | dB | dBuV | dBuV | dB | |
| 1 | 0.1712 | 0.02 | 0.30 | 22.07 | 22.39 | 54.90 | -32.51 Average |
| 2 | 0.1712 | 0.02 | 0.30 | 39.34 | 39.66 | 64.90 | -25.24 QP |
| 3 | 0.1825 | 0.02 | 0.30 | 19.84 | 20.16 | 54.37 | -34.21 Average |
| 4 | 0.1825 | 0.02 | 0.30 | 37.19 | 37.51 | 64.37 | -26.86 QP |
| 5 | 0.2773 | 0.03 | 0.28 | 24.24 | 24.55 | 50.90 | -26.35 Average |
| 6 | 0.2773 | 0.03 | 0.28 | 33.95 | 34.26 | 60.90 | -26.64 QP |
| 7 | 0.3914 | 0.03 | 0.28 | 20.48 | 20.79 | 48.03 | -27.24 Average |
| 8 | 0.3914 | 0.03 | 0.28 | 31.98 | 32.29 | 58.03 | -25.74 QP |
| 9 | 0.5581 | 0.03 | 0.23 | 31.30 | 31.56 | 46.00 | -14.44 Average |
| 10 | 0.5581 | 0.03 | 0.23 | 41.65 | 41.91 | 56.00 | -14.09 QP |
| 11 | 7.6060 | 0.04 | 0.16 | 20.11 | 20.31 | 50.00 | -29.69 Average |
| 12 | 7.6060 | 0.04 | 0.16 | 31.61 | 31.81 | 60.00 | -28.19 QP |



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7.2 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 |

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 26.1 °C

Humidity: 51.0 % RH

Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Final test | 03 | TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation. |
| Pre-scan | 04 | Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation. |



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7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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7.3 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

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 26.1 °C

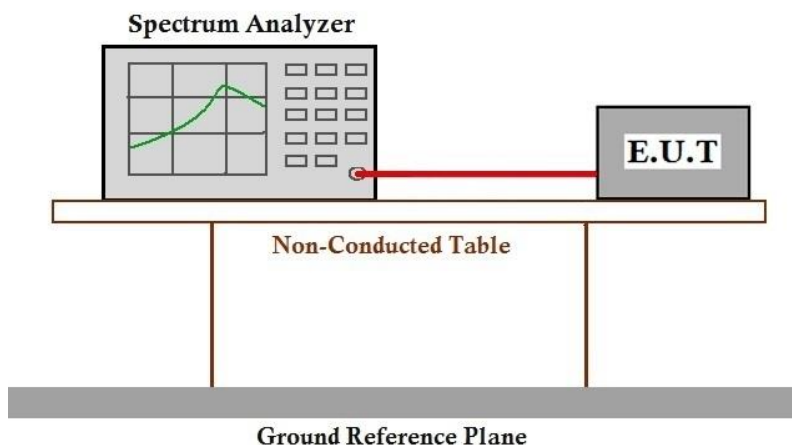
Humidity: 51.0 % RH

Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Final test | 03 | TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation. |
| Pre-scan | 04 | Charge + TX mode(1Mbps)_Keep the EUT in charging and 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 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

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 26.1 °C

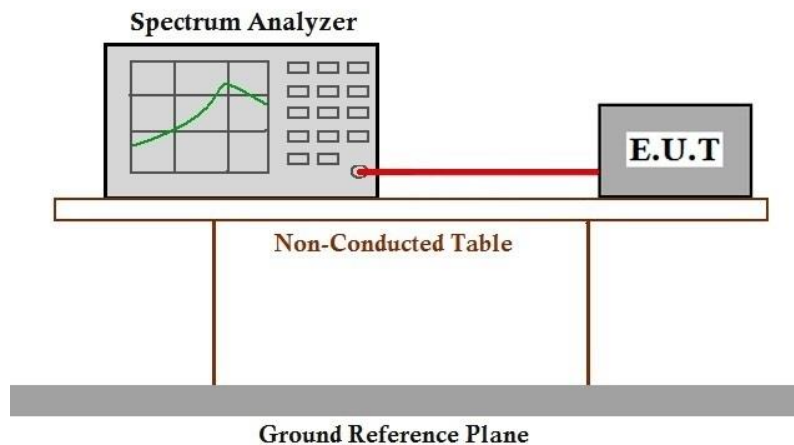
Humidity: 51.0 % RH

Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Final test | 03 | TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation. |
| Pre-scan | 04 | Charge + TX mode(1Mbps)_Keep the EUT in charging and 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 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)).

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 26.1 °C Humidity: 51.0 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Final test | 03 | TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation. |
| Pre-scan | 04 | Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation. |



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7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.6 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)).

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 26.1 °C

Humidity: 51.0 % RH

Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Final test | 03 | TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation. |
| Pre-scan | 04 | Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation. |



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7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

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7.7 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.

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

Humidity: 56.3 % RH

Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

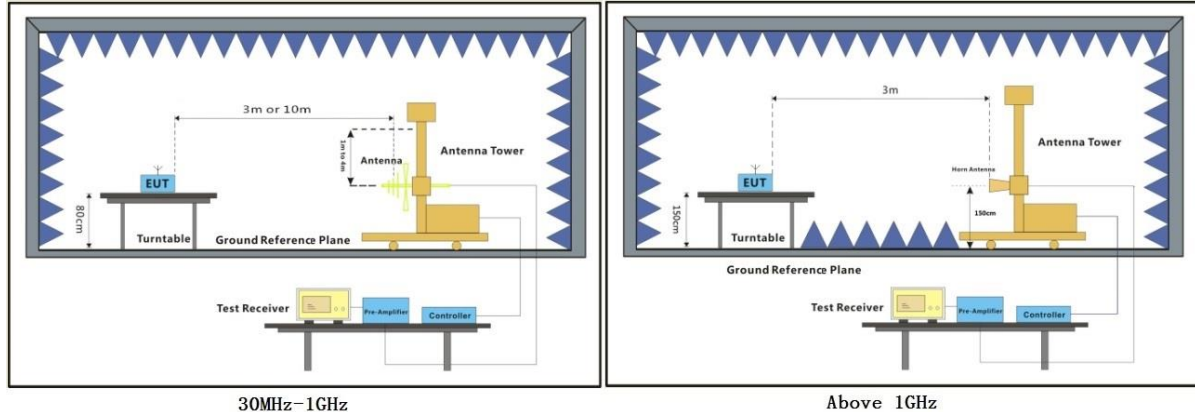
| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Pre-scan | 03 | TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation. |
| Final test | 04 | Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation. |



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7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

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

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

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



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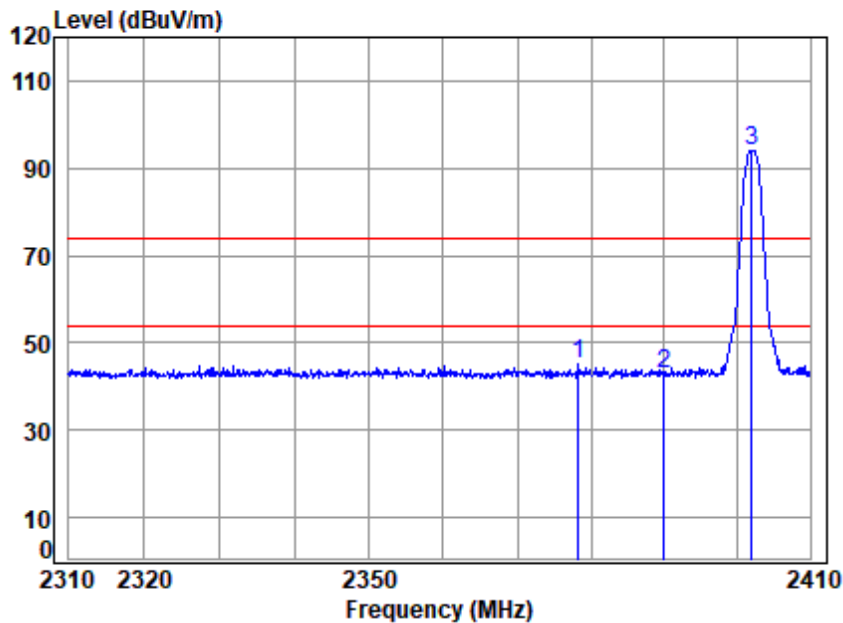
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Test Mode: 04; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00285AT
Mode : 2402 Band edge
Note : BLE

| | | Cable | Ant | Preamp | Read | | Limit | Over | |
|---|----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 2378.243 | 5.04 | 27.13 | 32.50 | 45.31 | 44.98 | 74.00 | -29.02 | peak |
| 2 | 2390.000 | 5.05 | 27.16 | 32.50 | 43.35 | 43.06 | 74.00 | -30.94 | peak |
| 3 | 2402.000 | 5.06 | 27.18 | 32.50 | 94.27 | 94.01 | 74.00 | 20.01 | peak |



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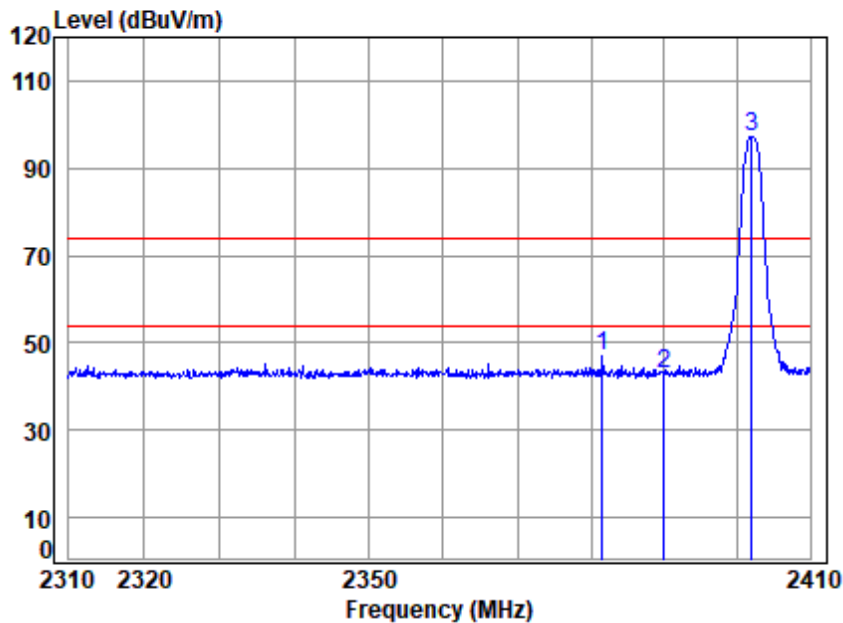
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Test Mode: 04; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00285AT
Mode : 2402 Band edge
Note : BLE

| | | Cable | Ant | Preamp | Read | Limit | Over | |
|---|----------|-------|--------|--------|-------|--------|--------|-------------|
| | Freq | Loss | Factor | Factor | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 2381.572 | 5.05 | 27.14 | 32.50 | 47.16 | 46.85 | 74.00 | -27.15 peak |
| 2 | 2390.000 | 5.05 | 27.16 | 32.50 | 43.33 | 43.04 | 74.00 | -30.96 peak |
| 3 | 2402.000 | 5.06 | 27.18 | 32.50 | 97.36 | 97.10 | 74.00 | 23.10 peak |



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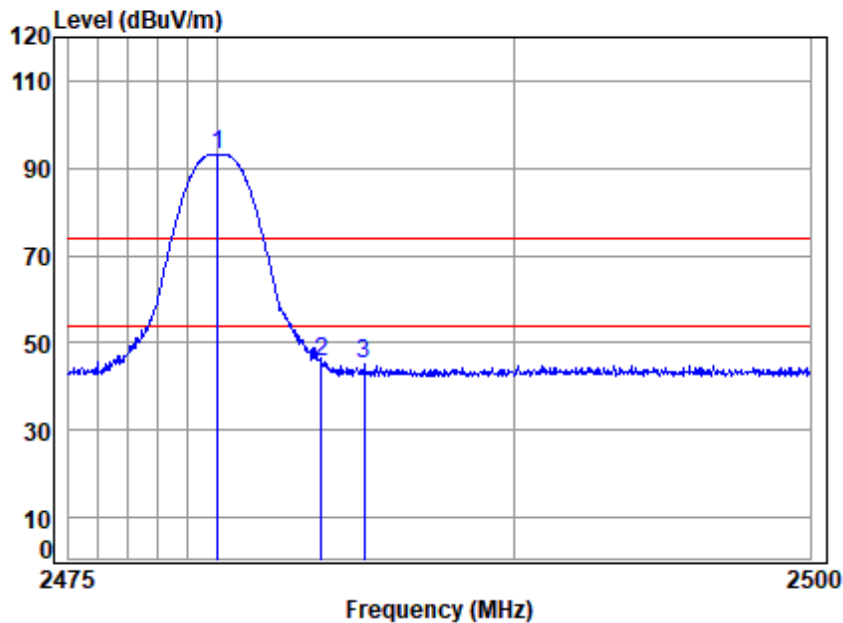
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Test Mode: 04; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00285AT
Mode : 2480 Band edge
Note : BLE

| | | Cable | Ant | Preamp | Read | Limit | Over | |
|---|----------|-------|--------|--------|-------|--------|--------|--------------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 2480.000 | 5.12 | 27.36 | 32.50 | 93.11 | 93.09 | 74.00 | 19.09 peak |
| 2 | 2483.500 | 5.12 | 27.36 | 32.50 | 45.46 | 45.44 | 74.00 | -28.56 peak |
| 3 | 2484.920 | 5.12 | 27.37 | 32.50 | 45.22 | 45.21 | 74.00 | -28.79 peak |



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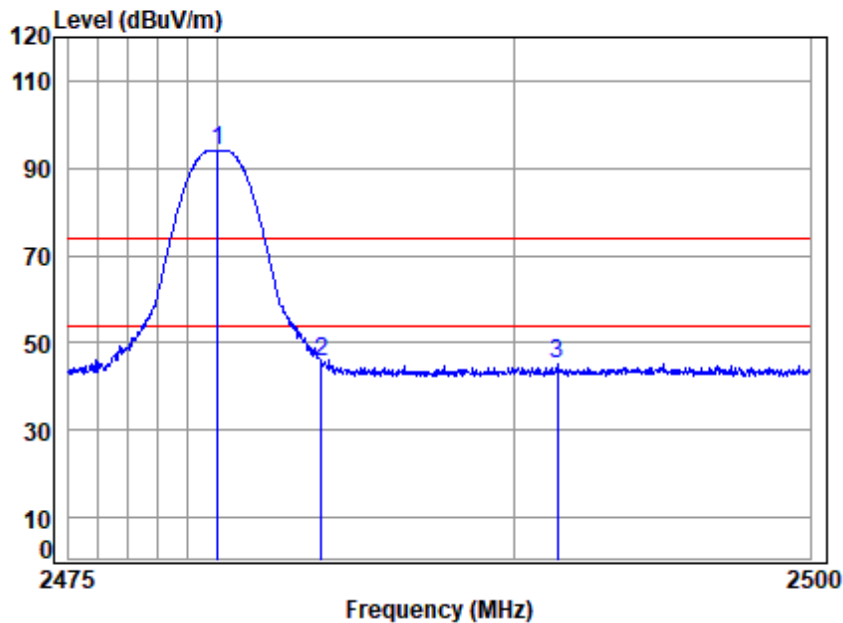
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Test Mode: 04; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00285AT
Mode : 2480 Band edge
Note : BLE

| | | Cable | Ant | Preamp | Read | Limit | Over | |
|--------------|--|-------|--------|--------|-------|--------|--------|-------------|
| Freq | | Loss | Factor | Factor | Level | Line | Limit | Remark |
| MHz | | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 . 2480.000 | | 5.12 | 27.36 | 32.50 | 94.13 | 94.11 | 74.00 | 20.11 peak |
| 2 2483.500 | | 5.12 | 27.36 | 32.50 | 45.53 | 45.51 | 74.00 | -28.49 peak |
| 3 2491.447 | | 5.12 | 27.38 | 32.50 | 45.16 | 45.16 | 74.00 | -28.84 peak |



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7.8 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 |

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C

Humidity: 52.1 % RH

Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Pre-scan | 03 | TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation. |
| Final test | 04 | Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation. |



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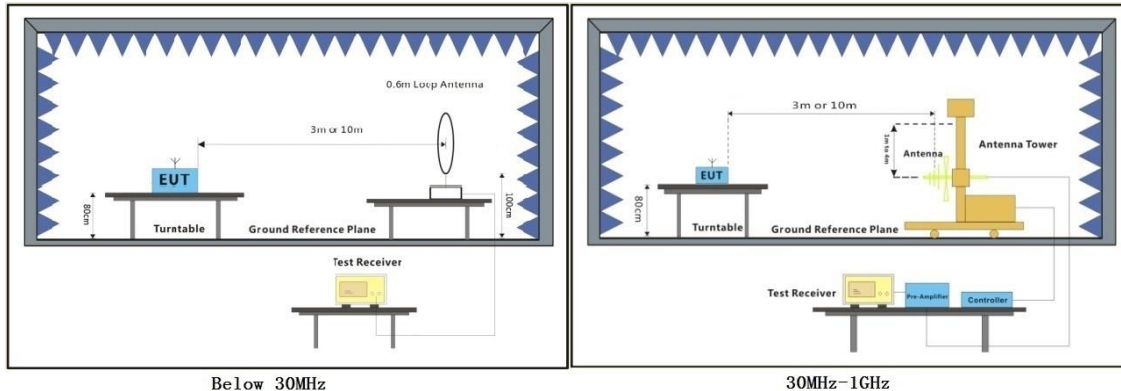
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7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

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

Remark:

- Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



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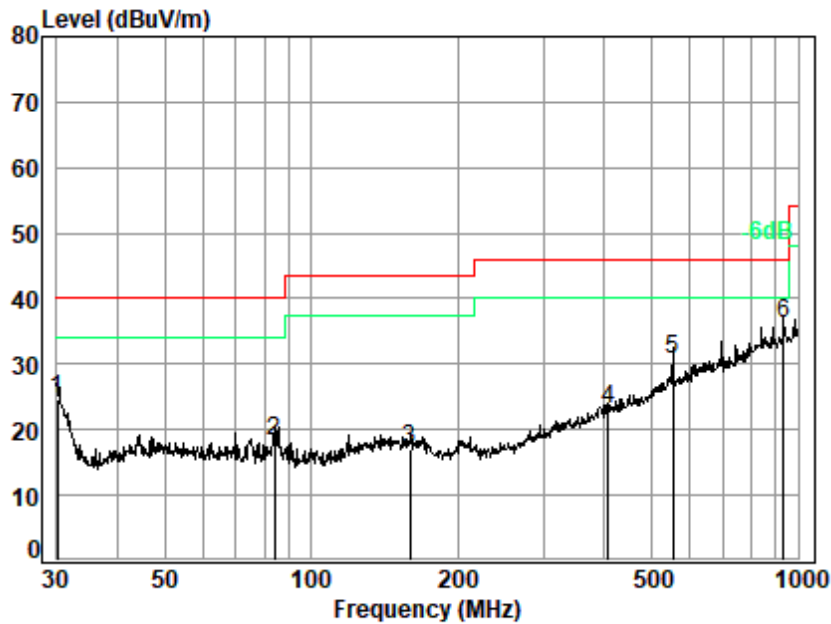
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Test Mode: 04; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00285AT
Mode : 04

| | | Cable | Ant | Preamp | Read | Limit | Over | |
|---|----------|-------|--------|--------|-------|--------|--------|-----------|
| | Freq | Loss | Factor | Factor | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 30.1054 | 0.20 | 16.30 | 26.03 | 34.09 | 24.56 | 40.00 | -15.44 QP |
| 2 | 84.1100 | 0.57 | 14.00 | 25.76 | 29.51 | 18.32 | 40.00 | -21.68 QP |
| 3 | 159.2251 | 0.85 | 17.23 | 25.52 | 24.61 | 17.17 | 43.50 | -26.33 QP |
| 4 | 407.5145 | 1.65 | 20.86 | 25.46 | 25.96 | 23.01 | 46.00 | -22.99 QP |
| 5 | 552.8833 | 1.88 | 23.85 | 25.22 | 30.11 | 30.62 | 46.00 | -15.38 QP |
| 6 | 935.5463 | 2.23 | 29.22 | 24.06 | 28.73 | 36.12 | 46.00 | -9.88 QP |



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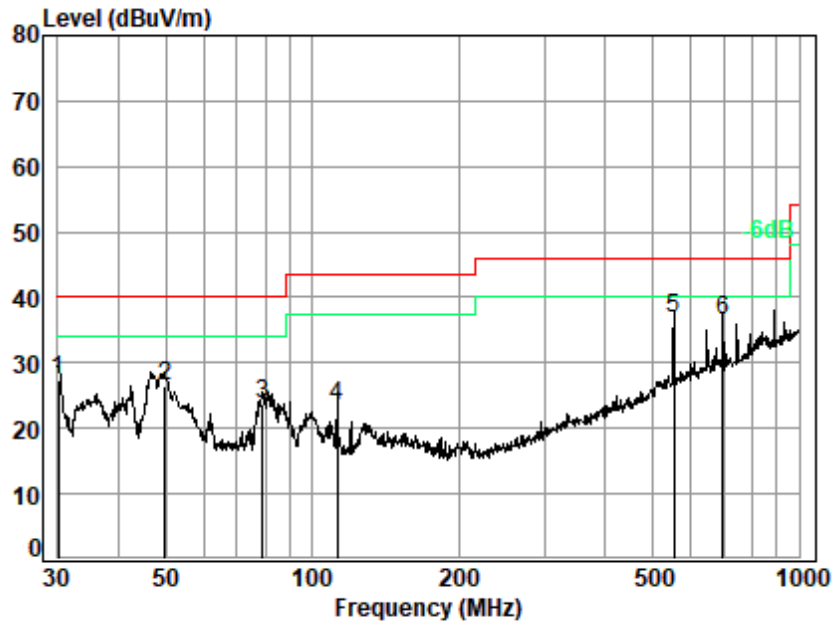
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Test Mode: 04; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 00285AT
Mode : 04

| | | Cable | Ant | Preamp | Read | | Limit | Over | |
|---|----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 30.1054 | 0.20 | 16.30 | 26.03 | 37.02 | 27.49 | 40.00 | -12.51 | QP |
| 2 | 49.7068 | 0.21 | 17.36 | 26.00 | 35.02 | 26.59 | 40.00 | -13.41 | QP |
| 3 | 78.9652 | 0.45 | 14.49 | 25.81 | 34.51 | 23.64 | 40.00 | -16.36 | QP |
| 4 | 112.5244 | 0.94 | 15.29 | 25.58 | 32.86 | 23.51 | 43.50 | -19.99 | QP |
| 5 | 552.8833 | 1.88 | 23.85 | 25.22 | 36.18 | 36.69 | 46.00 | -9.31 | QP |
| 6 | 696.8567 | 1.74 | 25.62 | 24.58 | 33.83 | 36.61 | 46.00 | -9.39 | QP |



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7.9 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 |

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

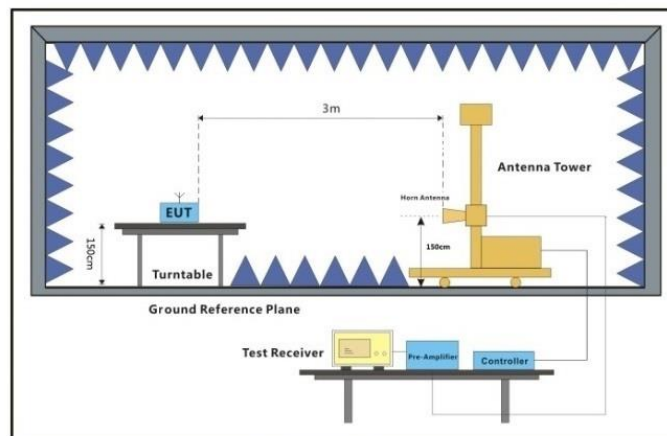
Humidity: 56.3 % RH

Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Pre-scan | 03 | TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation. |
| Final test | 04 | Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation. |

7.9.3 Test Setup Diagram



Above 1GHz



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7.9.4 Measurement Procedure and Data

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

Remark:

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



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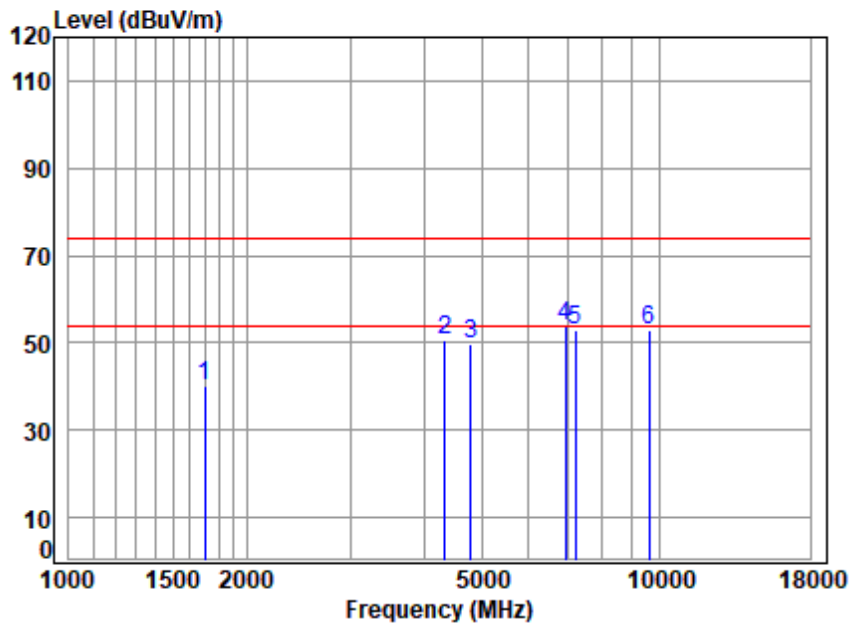
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Test Mode: 04; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00285AT
Mode : 2402 TX RSE
: BLE

| | | Cable | Ant | Preamp | Read | | Limit | Over | |
|---|----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1702.042 | 4.20 | 25.01 | 52.96 | 63.76 | 40.01 | 74.00 | -33.99 | peak |
| 2 | 4329.354 | 7.48 | 29.97 | 52.91 | 65.88 | 50.42 | 74.00 | -23.58 | peak |
| 3 | 4804.000 | 7.98 | 30.94 | 53.05 | 63.94 | 49.81 | 74.00 | -24.19 | peak |
| 4 | 6934.778 | 8.13 | 35.65 | 53.46 | 63.33 | 53.65 | 74.00 | -20.35 | peak |
| 5 | 7206.000 | 8.29 | 36.05 | 53.52 | 62.24 | 53.06 | 74.00 | -20.94 | peak |
| 6 | 9608.000 | 11.41 | 37.53 | 53.58 | 57.77 | 53.13 | 74.00 | -20.87 | peak |



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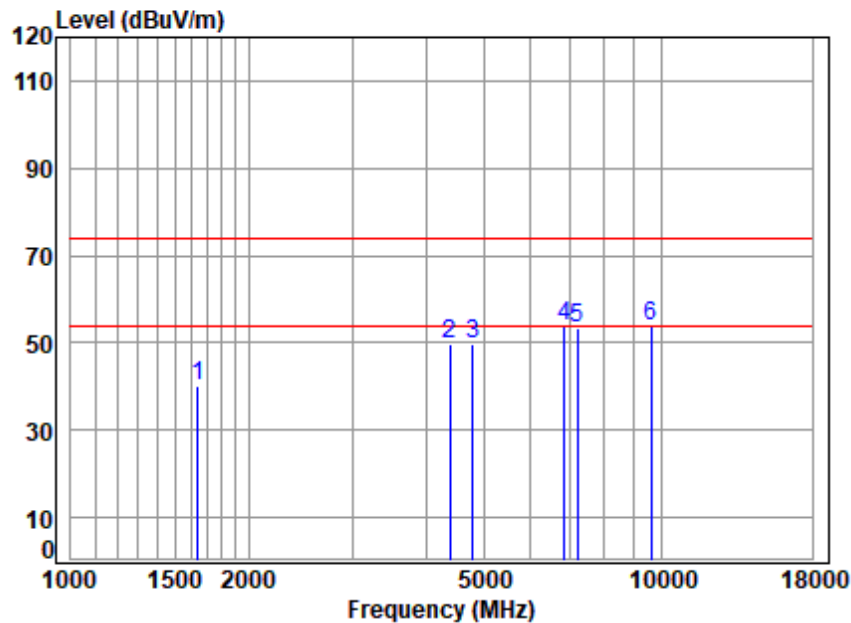
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Test Mode: 04; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00285AT
Mode : 2402 TX RSE
: BLE

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit | Over | Remark |
|---|----------|------------|------------|---------------|------------|--------|--------|--------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1644.019 | 4.08 | 24.89 | 52.93 | 64.07 | 40.11 | 74.00 | -33.89 | peak |
| 2 | 4379.699 | 7.47 | 30.04 | 52.92 | 65.35 | 49.94 | 74.00 | -24.06 | peak |
| 3 | 4804.000 | 7.98 | 30.94 | 53.05 | 63.85 | 49.72 | 74.00 | -24.28 | peak |
| 4 | 6855.063 | 8.05 | 35.46 | 53.40 | 63.56 | 53.67 | 74.00 | -20.33 | peak |
| 5 | 7206.000 | 8.29 | 36.05 | 53.52 | 62.34 | 53.16 | 74.00 | -20.84 | peak |
| 6 | 9608.000 | 11.41 | 37.53 | 53.58 | 58.26 | 53.62 | 74.00 | -20.38 | peak |



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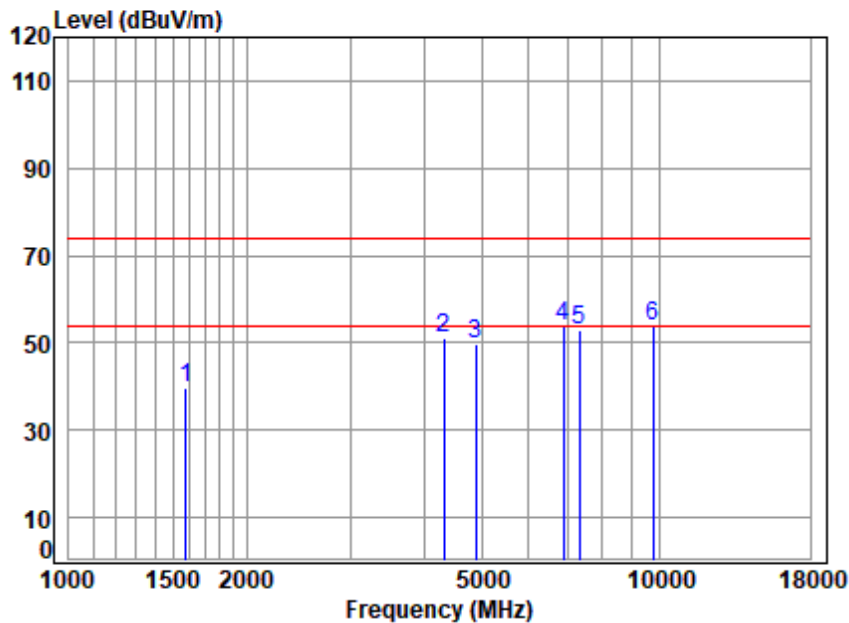
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Test Mode: 04; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00285AT
Mode : 2440 TX RSE
: BLE

| | | Cable | Ant | Preamp | Read | | Limit | Over | |
|---|----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1578.822 | 3.94 | 24.74 | 52.90 | 63.88 | 39.66 | 74.00 | -34.34 | peak |
| 2 | 4316.859 | 7.48 | 29.95 | 52.90 | 66.64 | 51.17 | 74.00 | -22.83 | peak |
| 3 | 4880.000 | 8.11 | 31.12 | 53.07 | 63.56 | 49.72 | 74.00 | -24.28 | peak |
| 4 | 6874.906 | 8.07 | 35.51 | 53.42 | 63.71 | 53.87 | 74.00 | -20.13 | peak |
| 5 | 7320.000 | 8.35 | 36.19 | 53.53 | 62.03 | 53.04 | 74.00 | -20.96 | peak |
| 6 | 9760.000 | 11.30 | 37.87 | 53.43 | 58.19 | 53.93 | 74.00 | -20.07 | peak |



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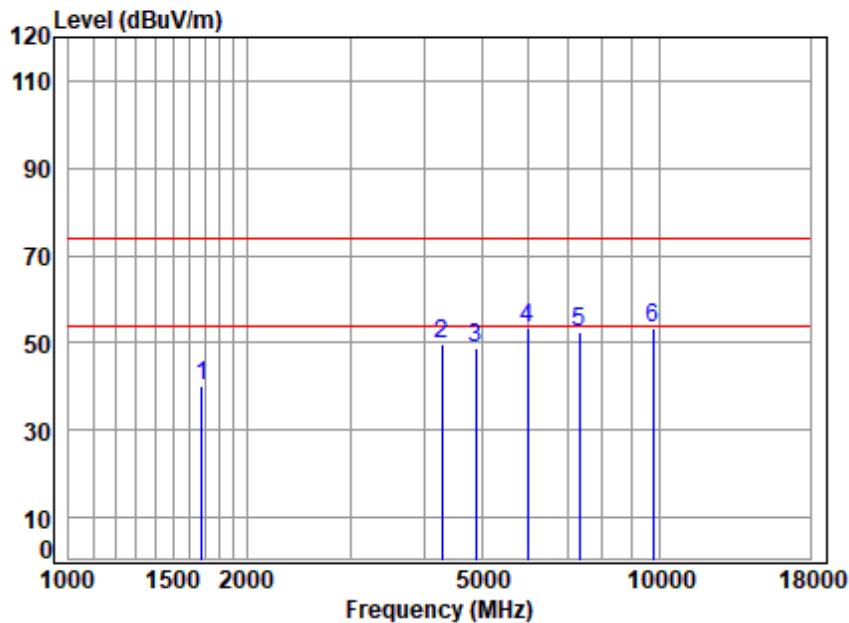
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Test Mode: 04; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00285AT
Mode : 2440 TX RSE
: BLE

| | | Cable | Ant | Preamp | Read | Limit | Over | |
|------|----------|-------|--------|--------|-------|--------|-------|-------------|
| Freq | | Loss | Factor | Factor | Level | Line | Limit | Remark |
| MHz | | dB | dB/m | dB | dBuV | dBuV/m | dB | |
| 1 | 1677.621 | 4.15 | 24.96 | 52.95 | 64.11 | 40.27 | 74.00 | -33.73 peak |
| 2 | 4291.977 | 7.48 | 29.92 | 52.89 | 65.31 | 49.82 | 74.00 | -24.18 peak |
| 3 | 4880.000 | 8.11 | 31.12 | 53.07 | 62.45 | 48.61 | 74.00 | -25.39 peak |
| 4 | 5984.305 | 7.66 | 32.41 | 52.80 | 66.13 | 53.40 | 74.00 | -20.60 peak |
| 5 | 7320.000 | 8.35 | 36.19 | 53.53 | 61.58 | 52.59 | 74.00 | -21.41 peak |
| 6 | 9760.000 | 11.30 | 37.87 | 53.43 | 57.79 | 53.53 | 74.00 | -20.47 peak |



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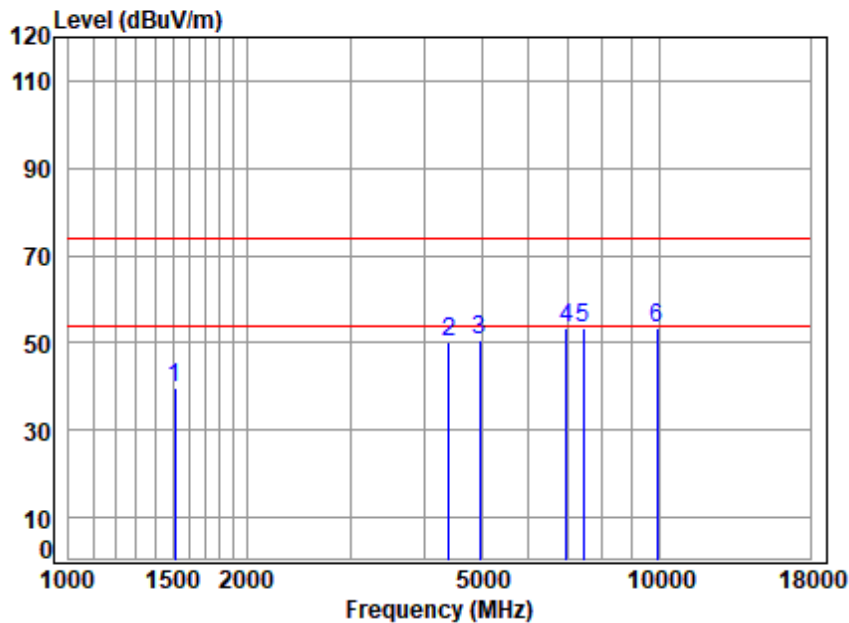
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Test Mode: 04; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00285AT
Mode : 2480 TX RSE
: BLE

| | | Cable | Ant | Preamp | Read | | Limit | Over | |
|---|----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1511.833 | 3.80 | 24.55 | 52.86 | 64.08 | 39.57 | 74.00 | -34.43 | peak |
| 2 | 4405.090 | 7.47 | 30.07 | 52.93 | 65.54 | 50.15 | 74.00 | -23.85 | peak |
| 3 | 4960.000 | 8.24 | 31.31 | 53.09 | 64.07 | 50.53 | 74.00 | -23.47 | peak |
| 4 | 6954.852 | 8.15 | 35.70 | 53.47 | 62.84 | 53.22 | 74.00 | -20.78 | peak |
| 5 | 7440.000 | 8.40 | 36.33 | 53.55 | 62.28 | 53.46 | 74.00 | -20.54 | peak |
| 6 | 9920.000 | 11.18 | 38.22 | 53.28 | 57.08 | 53.20 | 74.00 | -20.80 | peak |



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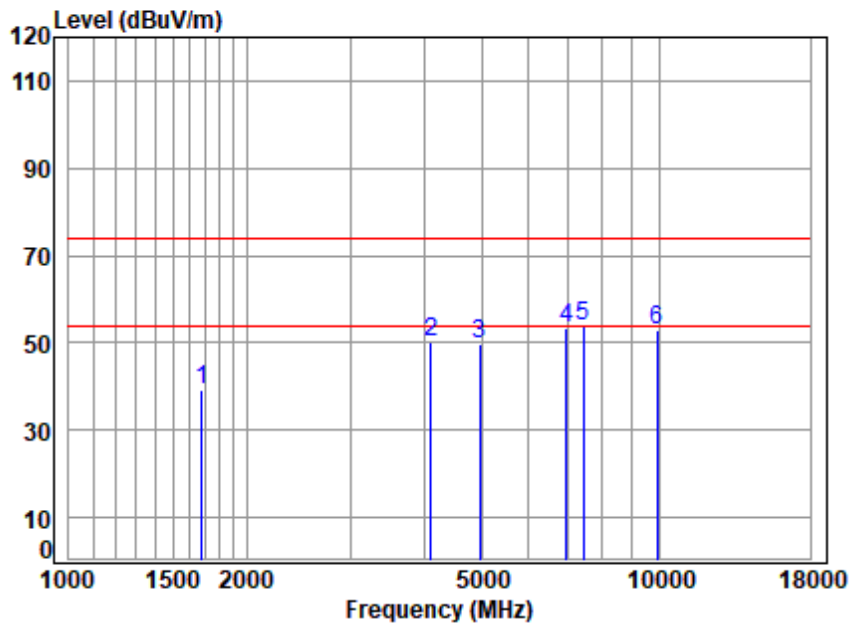
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Test Mode: 04; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00285AT
Mode : 2480 TX RSE
: BLE

| | | Cable | Ant | Preamp | Read | Limit | Over | |
|---|----------|-------|--------|--------|-------|--------|--------|-------------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 1677.621 | 4.15 | 24.96 | 52.95 | 63.24 | 39.40 | 74.00 | -34.60 peak |
| 2 | 4098.010 | 7.49 | 29.64 | 52.83 | 65.69 | 49.99 | 74.00 | -24.01 peak |
| 3 | 4960.000 | 8.24 | 31.31 | 53.09 | 63.22 | 49.68 | 74.00 | -24.32 peak |
| 4 | 6954.852 | 8.15 | 35.70 | 53.47 | 62.80 | 53.18 | 74.00 | -20.82 peak |
| 5 | 7440.000 | 8.40 | 36.33 | 53.55 | 62.62 | 53.80 | 74.00 | -20.20 peak |
| 6 | 9920.000 | 11.18 | 38.22 | 53.28 | 56.65 | 52.77 | 74.00 | -21.23 peak |



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8 Test Setup Photo

Refer to Setup Photos for FYCR2207000285AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for FYCR2207000285AT



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10 Appendix

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 | 0.408 | 0.625 | 65.28 | 1.85 | 0.02 |
| | | 2440 | 0.409 | 0.625 | 65.44 | 1.84 | 0.00 |
| | | 2480 | 0.409 | 0.625 | 65.44 | 1.84 | 0.00 |

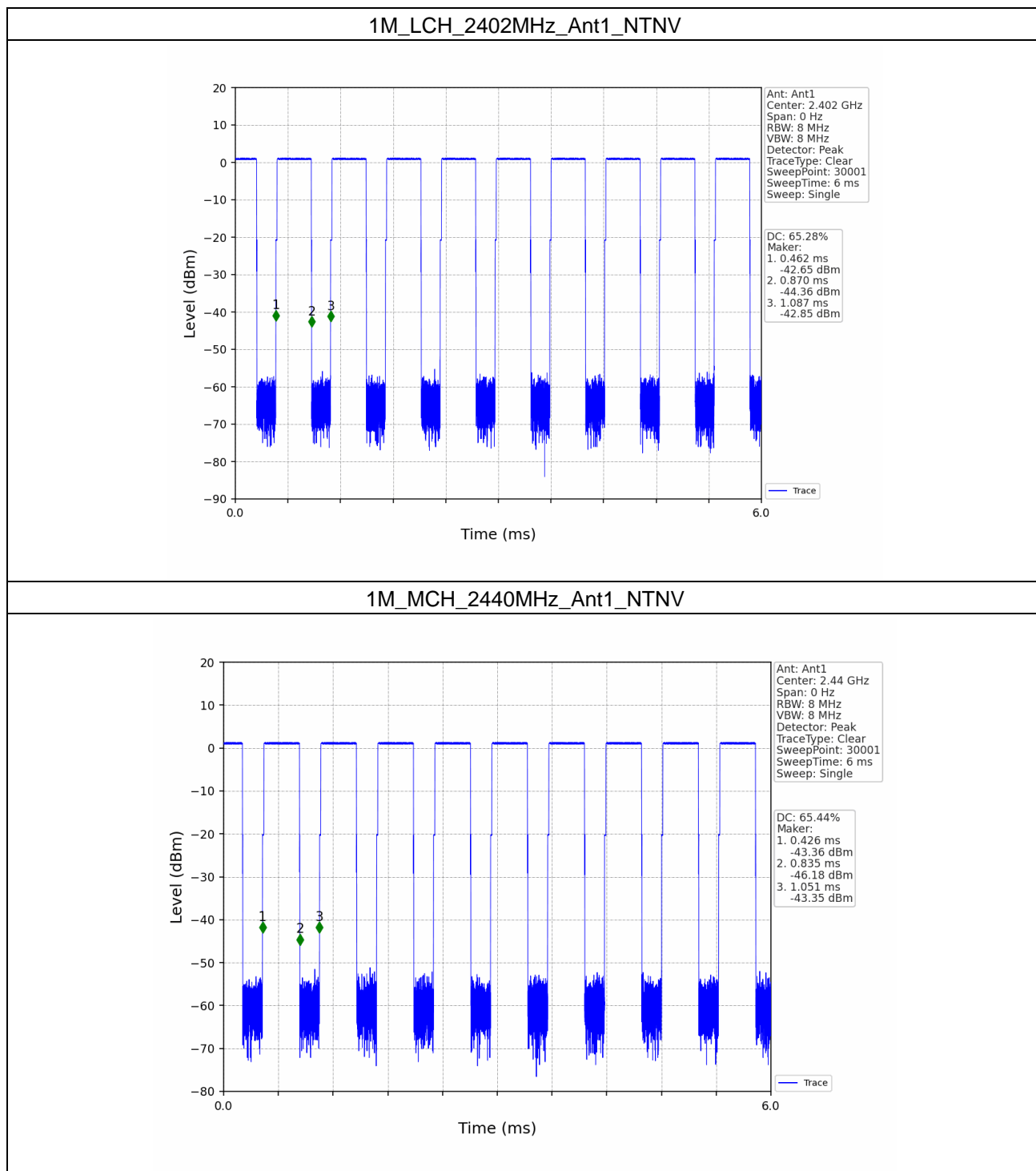


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1.1.2 Test Graph



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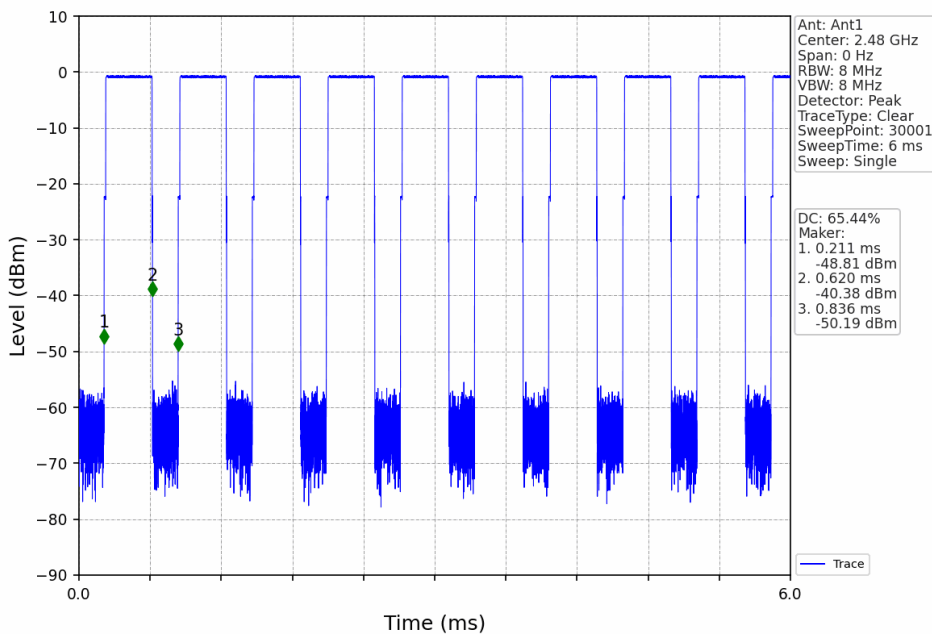
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1M_HCH_2480MHz_Ant1_NTNV



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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 | 1.065 | Pass |
| | | 2440 | 1 | 1.064 | Pass |
| | | 2480 | 1 | 1.065 | Pass |



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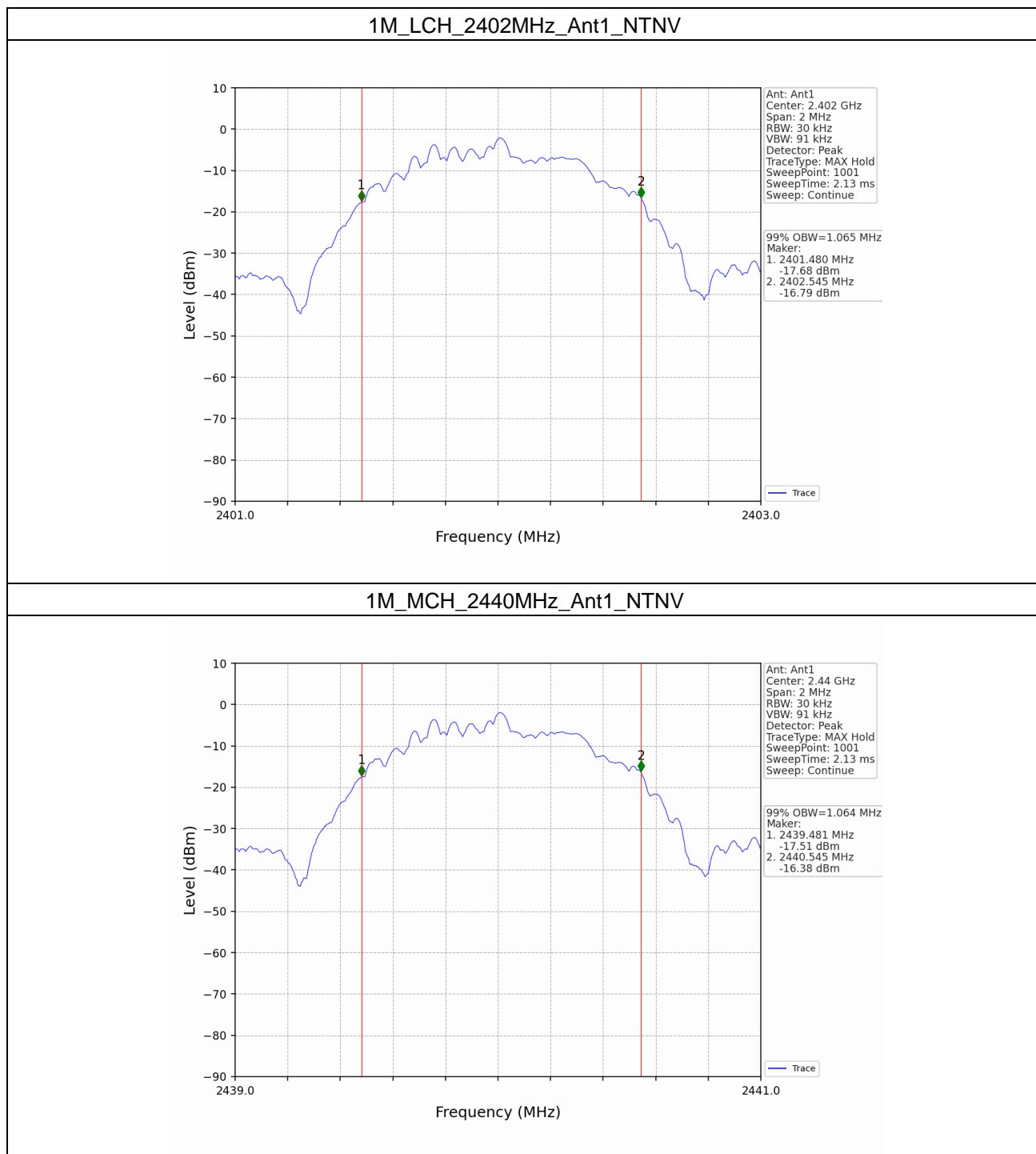
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2.1.2 Test Graph



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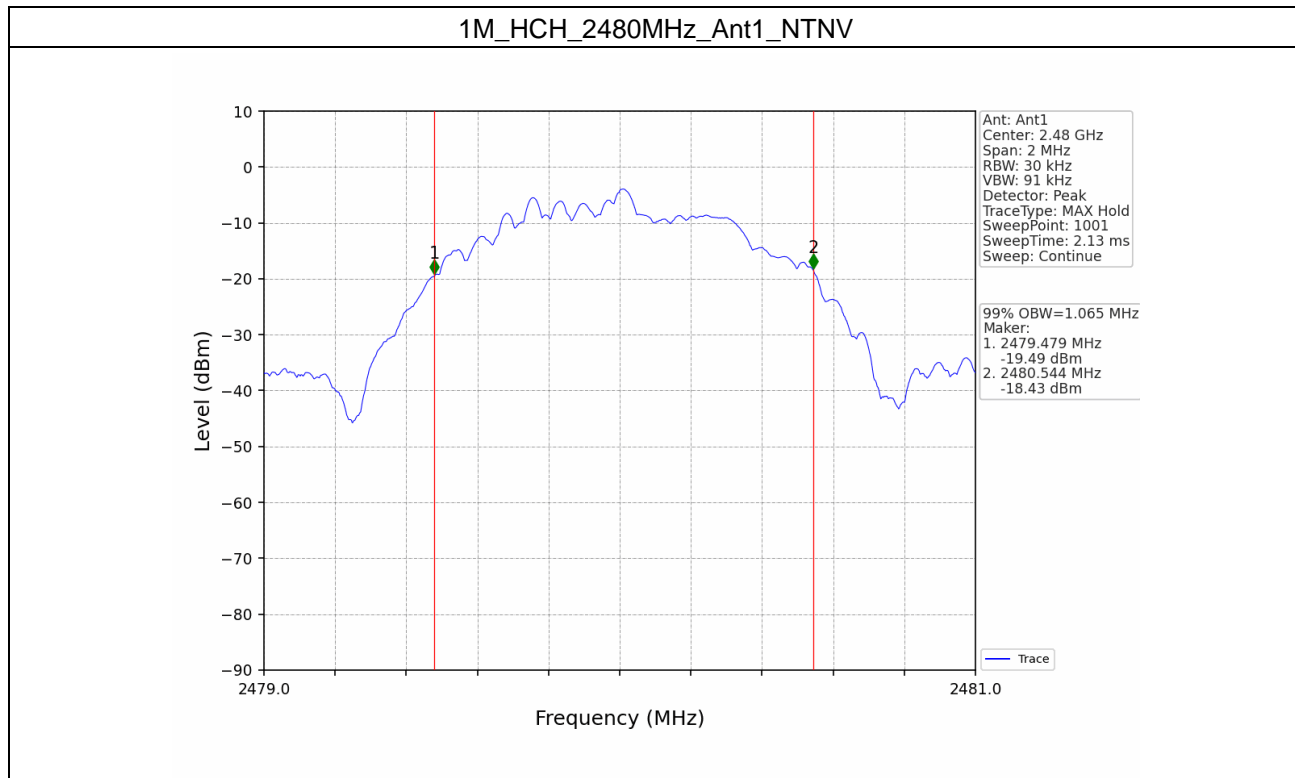
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2.2 6dB BW

2.2.1 Test Result

| Mode | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) | | Verdict |
|------|---------|-----------------|-----|---------------------|------------|---------|
| | | | | Result | Limit | |
| 1M | SISO | 2402 | 1 | 0.672 | ≥ 0.5 | Pass |
| | | 2440 | 1 | 0.671 | ≥ 0.5 | Pass |
| | | 2480 | 1 | 0.667 | ≥ 0.5 | Pass |

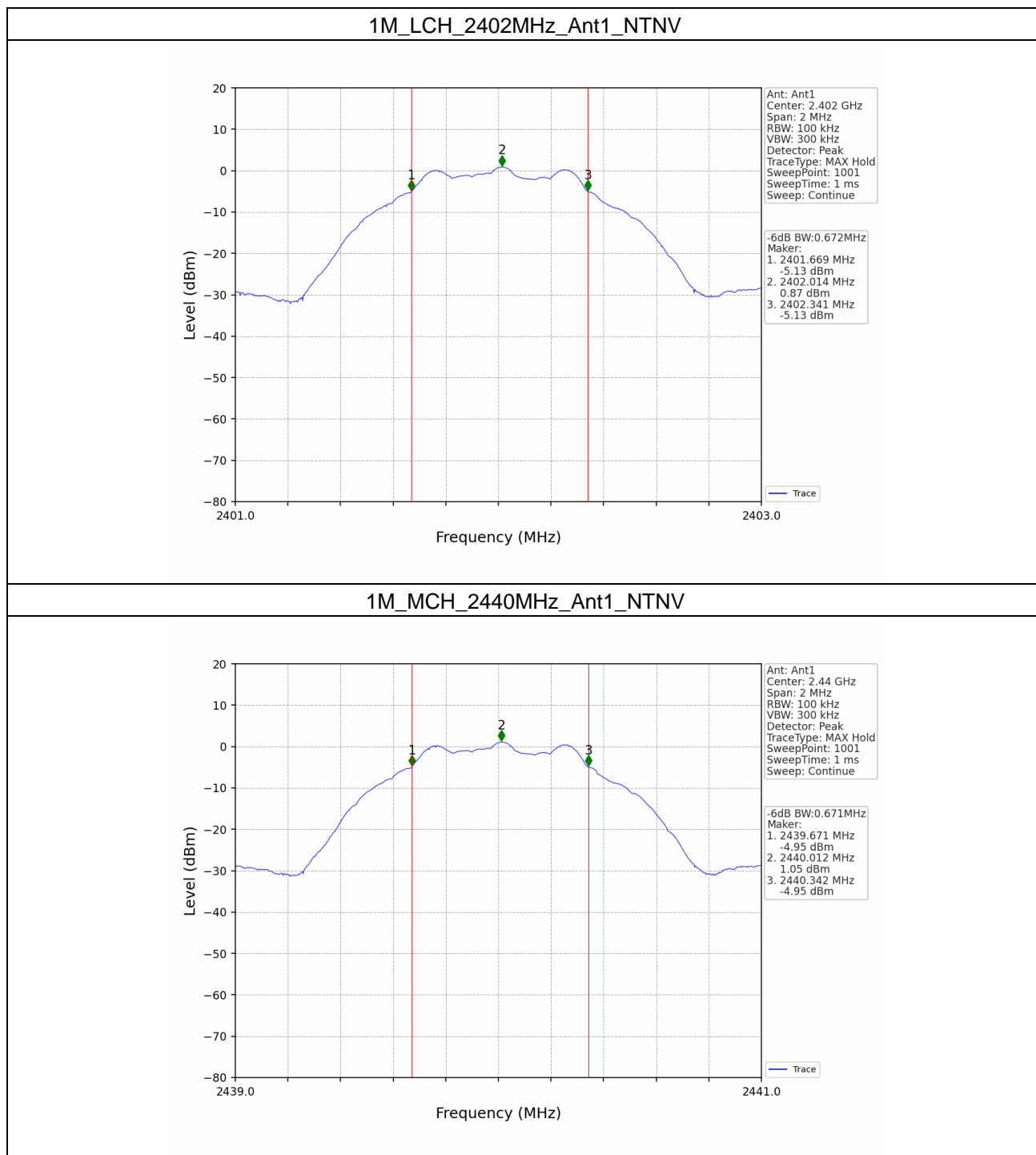


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2.2.2 Test Graph



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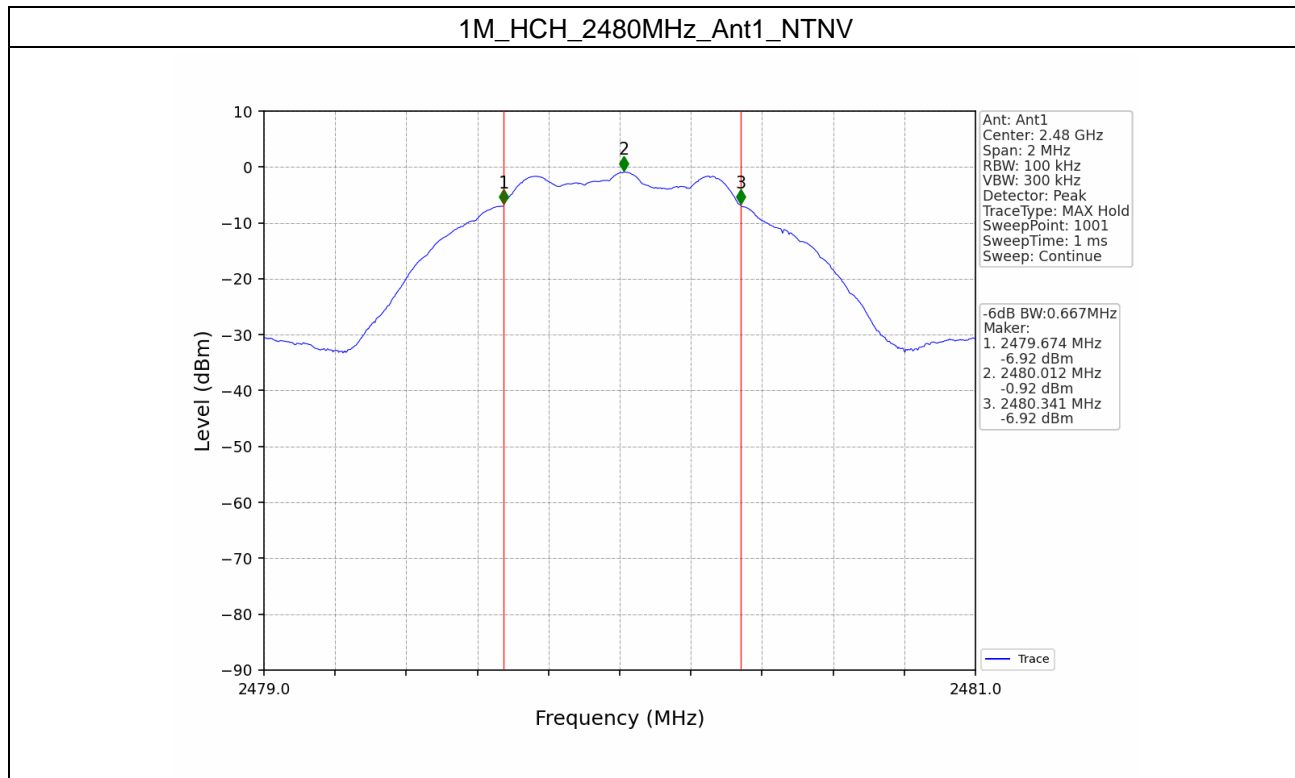
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3. Maximum Conducted Output Power

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 | 1.04 | <=30 | Pass |
| | | 2440 | 1.22 | <=30 | Pass |
| | | 2480 | -0.70 | <=30 | Pass |



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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 | -14.02 | <=8 | Pass |
| | | 2440 | -13.76 | <=8 | Pass |
| | | 2480 | -15.78 | <=8 | Pass |



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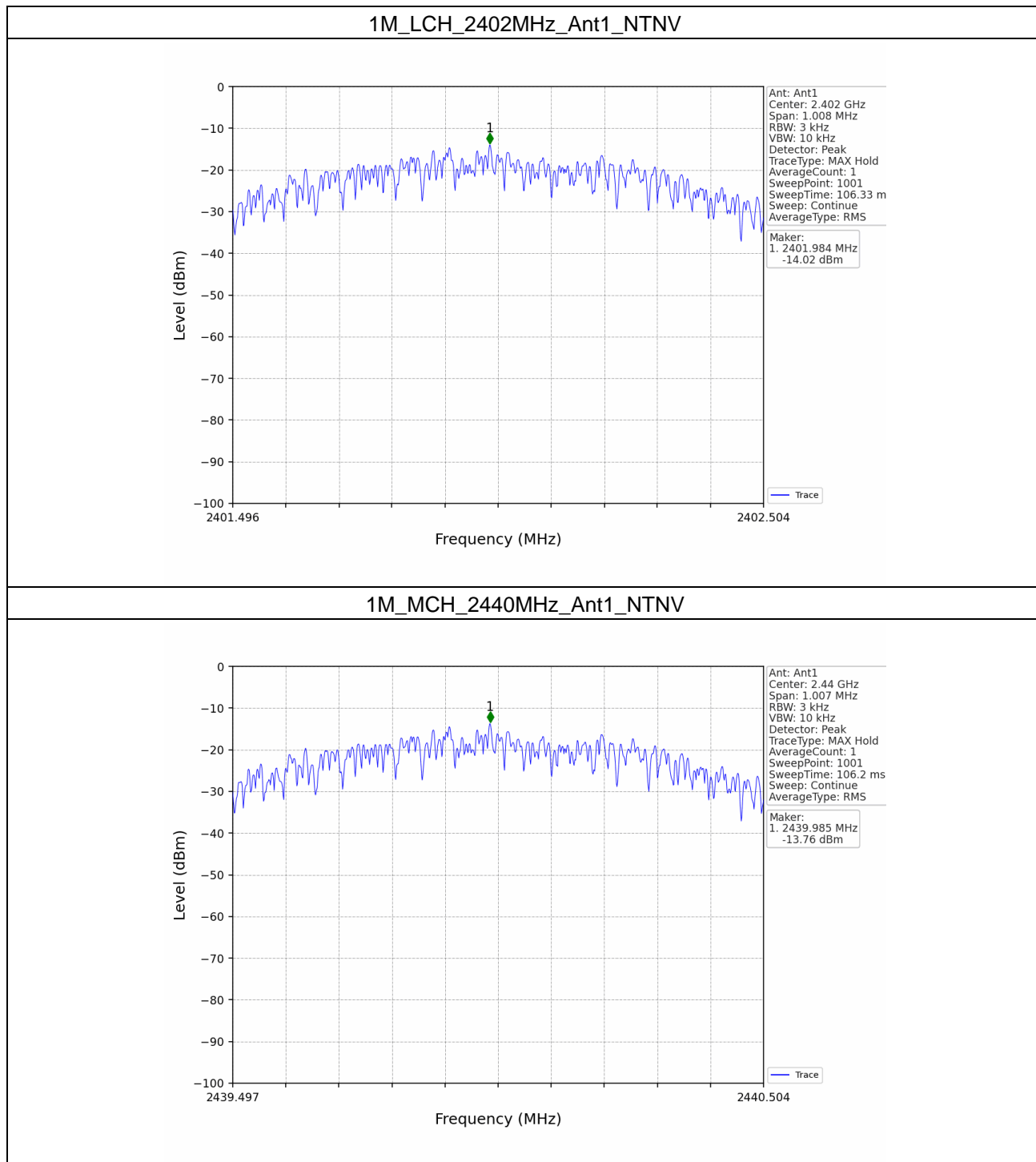
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4.1.2 Test Graph



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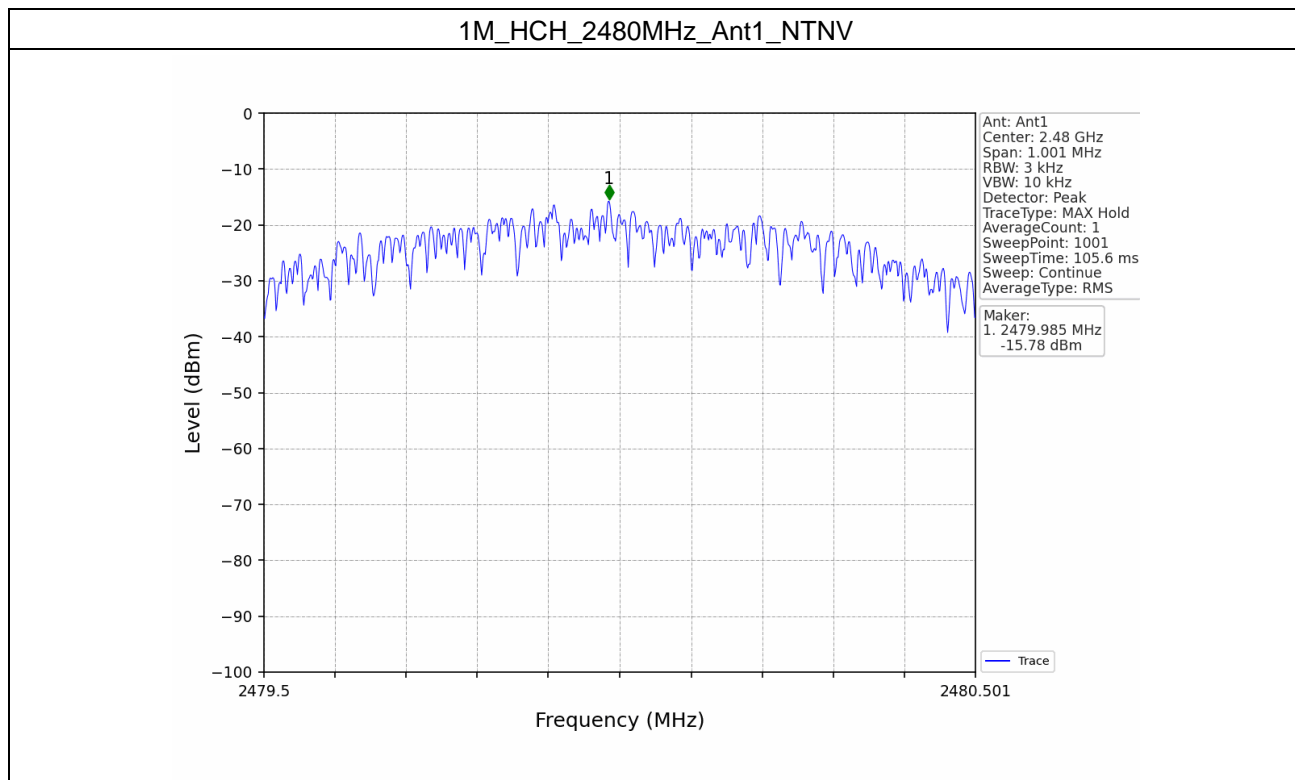
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5. Unwanted Emissions In Non-restricted Frequency Bands**5.1 Ref****5.1.1 Test Result**

| Mode | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) |
|------|---------|-----------------|-----|--------------------------|
| 1M | SISO | 2402 | 1 | 0.85 |
| | | 2440 | 1 | 1.03 |
| | | 2480 | 1 | -0.95 |



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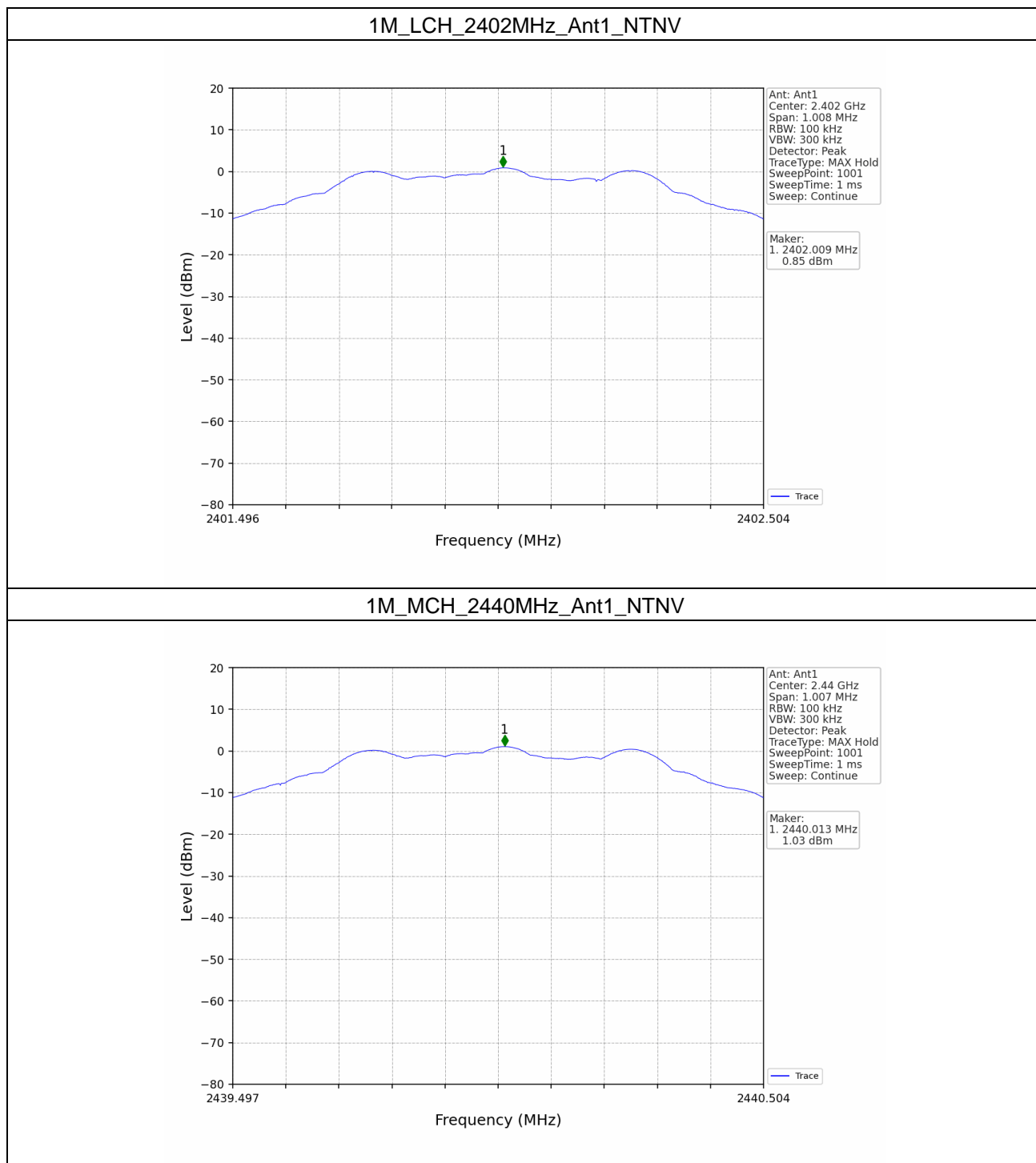
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5.1.2 Test Graph



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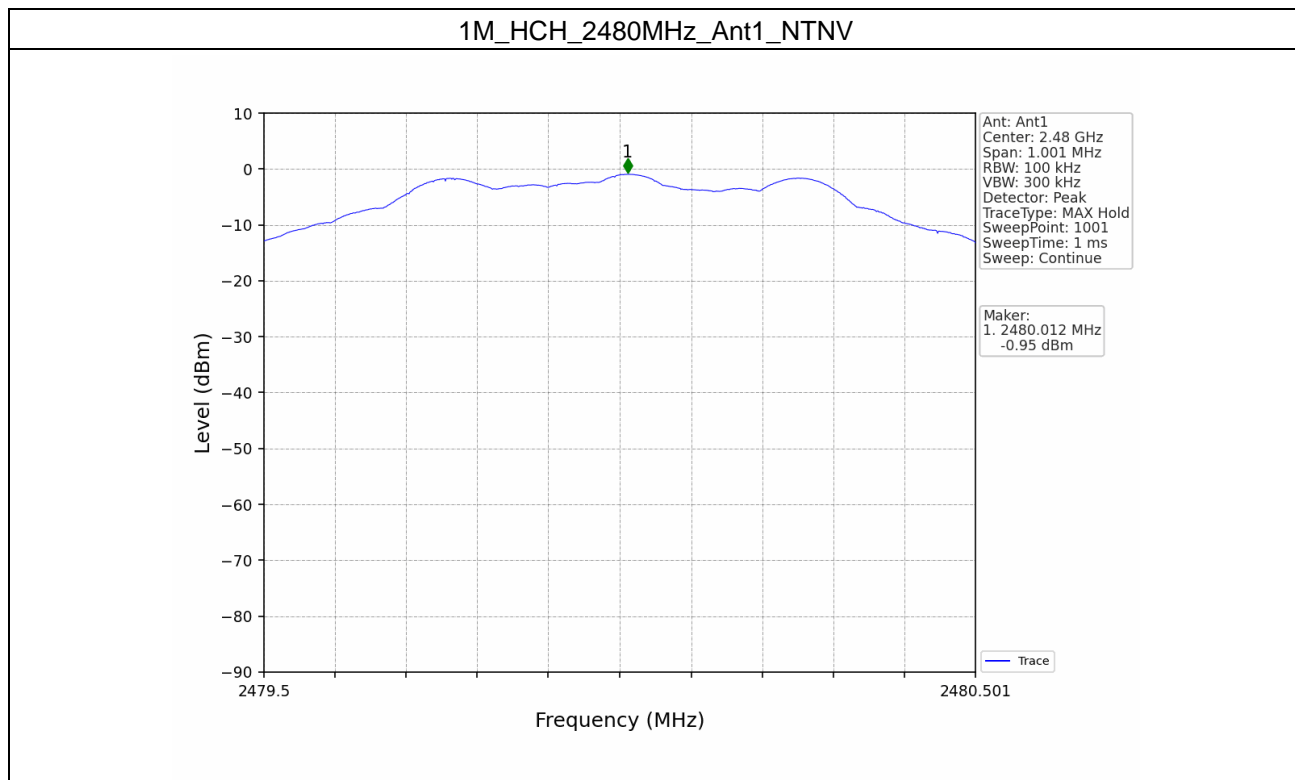
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5.2 CSE

5.2.1 Test Result

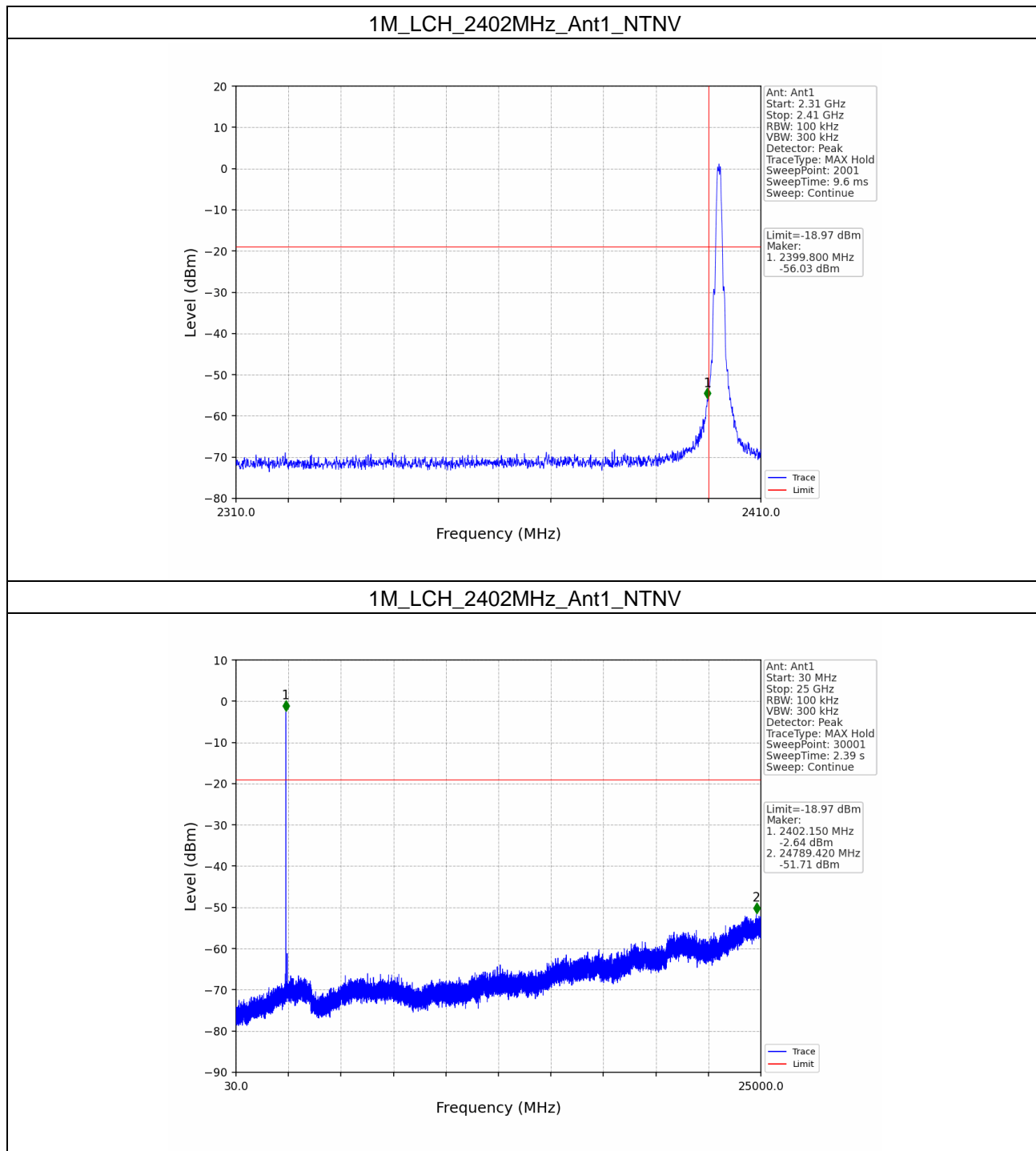
| Mode | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|------|---------|-----------------|-----|--------------------------|-------------|---------|
| 1M | SISO | 2402 | 1 | 1.03 | -18.97 | Pass |
| | | 2440 | 1 | 1.03 | -18.97 | Pass |
| | | 2480 | 1 | 1.03 | -18.97 | Pass |



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5.2.2 Test Graph



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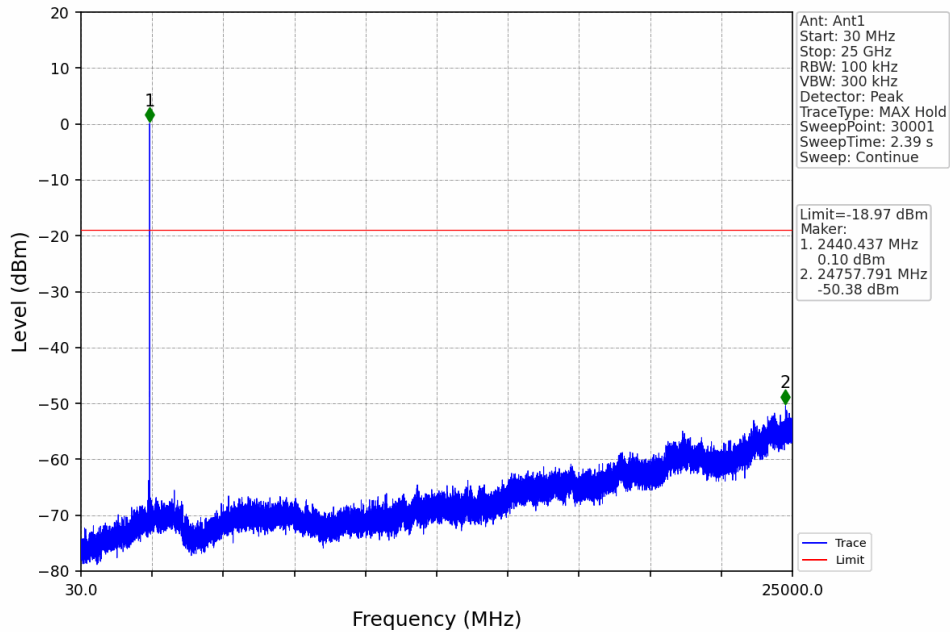
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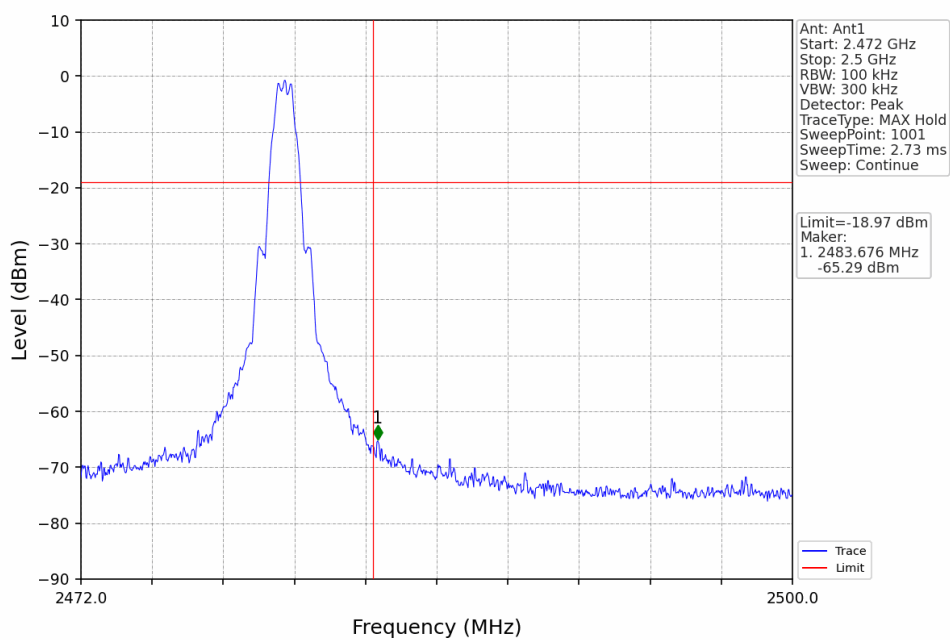
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1M_MCH_2440MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV



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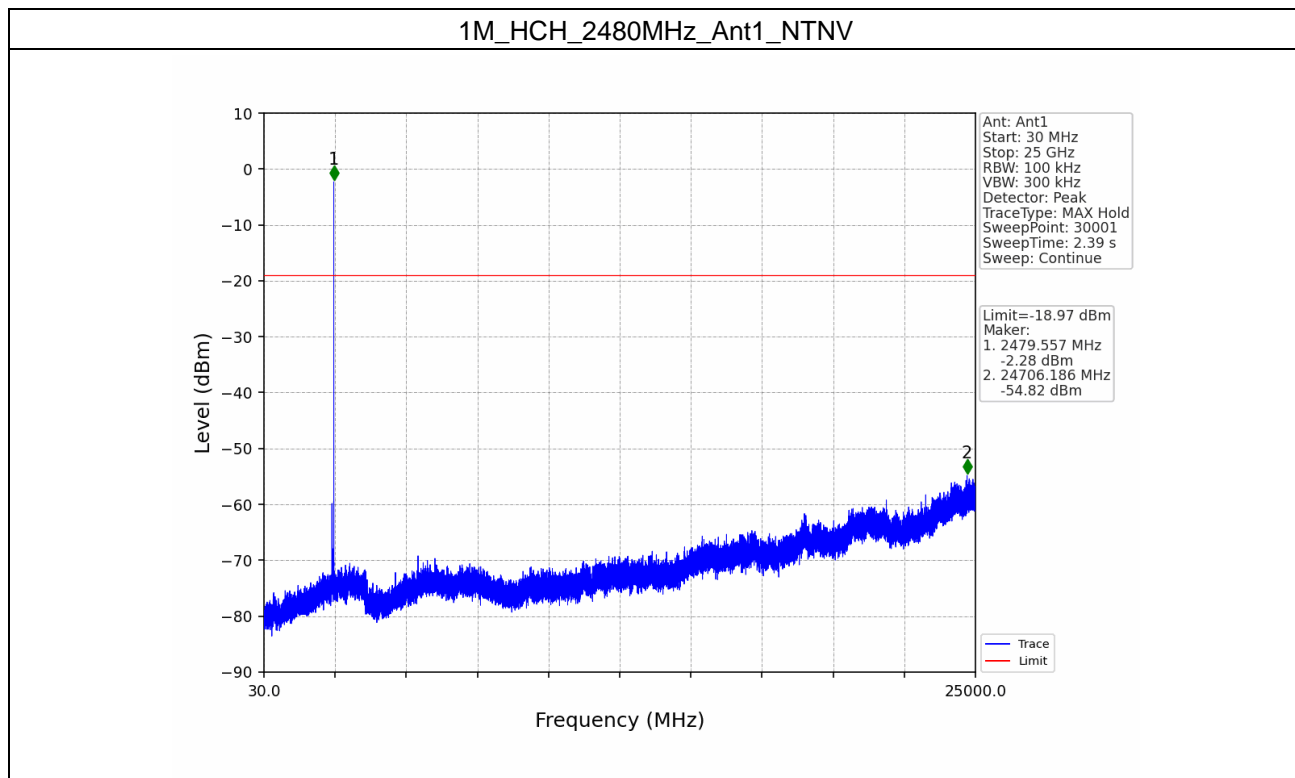
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- End of the Report -



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