



Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR230100000902

Page: 1 of 88

TEST REPORT

Application No.: FYCR2301000009AT
Applicant: PAX Technology Limited
Address of Applicant: Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Hong Kong
Manufacturer: PAX Computer Technology (Shenzhen) Co., Ltd.
Address of Manufacturer: 401 and 402, Building 3, Shenzhen Software Park, Nanshan District, Shenzhen City, Guangdong Province, P.R.C

Equipment Under Test (EUT):

EUT Name: UNATTENDED PAYMENT TERMINAL
Model No.: IM15
Trade Mark: PAX
FCC ID: V5PIM154GBW
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2023-01-10
Date of Test: 2023-01-16 to 2023-02-13
Date of Issue: 2023-03-06

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

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

Winkey Wang
EMC Technical Manager



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

Report No.: FYCR230100000902

Page: 2 of 88

Revision Record

| Version | Chapter | Date | Modifier | Remark |
|---------|---------|------------|----------|----------|
| 01 | | 2023-03-06 | | Original |
| | | | | |
| | | | | |

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

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

Report No.: FYCR230100000902

Page: 3 of 88

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 |
| Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence | | N/A | 47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h) | 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 7.8.5 | 47 CFR Part 15, Subpart C 15.247(b)(1) | Pass |
| 20dB Bandwidth | | ANSI C63.10 (2013) Section 7.8.7 | 47 CFR Part 15, Subpart C 15.247(a)(1) | Pass |
| Carrier Frequencies Separation | | ANSI C63.10 (2013) Section 7.8.2 | 47 CFR Part 15, Subpart C 15.247a(1) | Pass |
| Hopping Channel Number | | ANSI C63.10 (2013) Section 7.8.3 | 47 CFR Part 15, Subpart C 15.247a(1)(iii) | Pass |
| Dwell Time | | ANSI C63.10 (2013) Section 7.8.4 | 47 CFR Part 15, Subpart C 15.247a(1)(iii) | Pass |
| Conducted Band Edges Measurement | | ANSI C63.10 (2013) Section 7.8.6 | 47 CFR Part 15, Subpart C 15.247(d) | Pass |
| Conducted Spurious Emissions | | ANSI C63.10 (2013) Section 7.8.8 | 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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3 Contents

| | Page |
|--|-----------|
| 1 COVER PAGE | 1 |
| 2 TEST SUMMARY | 3 |
| 3 CONTENTS | 4 |
| 4 GENERAL INFORMATION | 6 |
| 4.1 DETAILS OF E.U.T. | 6 |
| 4.2 DESCRIPTION OF SUPPORT UNITS | 6 |
| 4.3 MEASUREMENT UNCERTAINTY | 6 |
| 4.4 TEST LOCATION | 7 |
| 4.5 TEST FACILITY | 7 |
| 4.6 DEVIATION FROM STANDARDS | 7 |
| 4.7 ABNORMALITIES FROM STANDARD CONDITIONS | 7 |
| 5 EQUIPMENT LIST | 8 |
| 6 RADIO SPECTRUM TECHNICAL REQUIREMENT | 11 |
| 6.1 ANTENNA REQUIREMENT | 11 |
| 6.1.1 <i>Test Requirement</i> | 11 |
| 6.1.2 <i>Conclusion</i> | 11 |
| 6.2 OTHER REQUIREMENTS FREQUENCY HOPPING SPREAD SPECTRUM SYSTEM HOPPING SEQUENCE | 12 |
| 6.2.1 <i>Test Requirement</i> | 12 |
| 6.2.2 <i>Conclusion</i> | 12 |
| 7 RADIO SPECTRUM MATTER TEST RESULTS | 14 |
| 7.1 CONDUCTED EMISSIONS AT AC POWER LINE (150KHZ-30MHz) | 14 |
| 7.1.1 <i>E.U.T. Operation</i> | 14 |
| 7.1.2 <i>Test Mode Description</i> | 14 |
| 7.1.3 <i>Test Setup Diagram</i> | 15 |
| 7.1.4 <i>Measurement Procedure and Data</i> | 15 |
| 7.2 CONDUCTED PEAK OUTPUT POWER | 18 |
| 7.2.1 <i>E.U.T. Operation</i> | 18 |
| 7.2.2 <i>Test Mode Description</i> | 18 |
| 7.2.3 <i>Test Setup Diagram</i> | 19 |
| 7.2.4 <i>Measurement Procedure and Data</i> | 19 |
| 7.3 20dB BANDWIDTH | 20 |
| 7.3.1 <i>E.U.T. Operation</i> | 20 |
| 7.3.2 <i>Test Mode Description</i> | 20 |
| 7.3.3 <i>Test Setup Diagram</i> | 20 |
| 7.3.4 <i>Measurement Procedure and Data</i> | 20 |
| 7.4 CARRIER FREQUENCIES SEPARATION | 21 |
| 7.4.1 <i>E.U.T. Operation</i> | 21 |
| 7.4.2 <i>Test Mode Description</i> | 21 |
| 7.4.3 <i>Test Setup Diagram</i> | 21 |



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

Report No.: FYCR230100000902

Page: 5 of 88

| | | |
|--------|---|----|
| 7.4.4 | Measurement Procedure and Data..... | 21 |
| 7.5 | HOPPING CHANNEL NUMBER..... | 22 |
| 7.5.1 | E.U.T. Operation..... | 22 |
| 7.5.2 | Test Mode Description..... | 22 |
| 7.5.3 | Test Setup Diagram..... | 22 |
| 7.5.4 | Measurement Procedure and Data..... | 22 |
| 7.6 | DWELL TIME | 23 |
| 7.6.1 | E.U.T. Operation..... | 23 |
| 7.6.2 | Test Mode Description..... | 23 |
| 7.6.3 | Test Setup Diagram..... | 24 |
| 7.6.4 | Measurement Procedure and Data..... | 24 |
| 7.7 | CONDUCTED BAND EDGES MEASUREMENT..... | 25 |
| 7.7.1 | E.U.T. Operation..... | 25 |
| 7.7.2 | Test Mode Description..... | 25 |
| 7.7.3 | Test Setup Diagram..... | 26 |
| 7.7.4 | Measurement Procedure and Data..... | 26 |
| 7.8 | CONDUCTED SPURIOUS EMISSIONS..... | 27 |
| 7.8.1 | E.U.T. Operation..... | 27 |
| 7.8.2 | Test Mode Description..... | 27 |
| 7.8.3 | Test Setup Diagram..... | 28 |
| 7.8.4 | Measurement Procedure and Data..... | 28 |
| 7.9 | RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS | 29 |
| 7.9.1 | E.U.T. Operation..... | 30 |
| 7.9.2 | Test Mode Description..... | 30 |
| 7.9.3 | Test Setup Diagram..... | 30 |
| 7.9.4 | Measurement Procedure and Data..... | 31 |
| 7.10 | RADIATED SPURIOUS EMISSIONS BELOW 1GHz..... | 36 |
| 7.10.1 | E.U.T. Operation..... | 36 |
| 7.10.2 | Test Mode Description..... | 36 |
| 7.10.3 | Test Setup Diagram..... | 37 |
| 7.10.4 | Measurement Procedure and Data..... | 37 |
| 7.11 | RADIATED SPURIOUS EMISSIONS ABOVE 1GHz | 40 |
| 7.11.1 | E.U.T. Operation..... | 40 |
| 7.11.2 | Test Mode Description..... | 40 |
| 7.11.3 | Test Setup Diagram..... | 40 |
| 7.11.4 | Measurement Procedure and Data | 41 |
| 8 | TEST SETUP PHOTO | 48 |
| 9 | EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS) | 48 |
| 10 | APPENDIX..... | 49 |



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

Report No.: FYCR230100000902

Page: 6 of 88

4 General Information**4.1 Details of E.U.T.**

| | |
|-----------------------------|---|
| Power supply: | DC5V from USB type C port Or DC12-48V by DC Source Or DC12V/1A by AC/DC adapter |
| Operation Frequency: | 2402MHz to 2480MHz |
| Bluetooth Version: | V5.0 Dual mode |
| Modulation Type: | GFSK, pi/4DQPSK, 8DPSK |
| Number of Channels: | 79 |
| Channel Spacing: | 1MHz |
| Spectrum Spread Technology: | Frequency Hopping Spread Spectrum(FHSS) |
| Antenna Type: | PIFA Antenna |
| Antenna Gain: | 1.14dBi |

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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 | ± 0.8dB |
| 20dB Bandwidth | ± 0.3% |
| Carrier Frequencies Separation | ± 0.3% |
| Hopping Channel Number | ± 0.3% |
| Dwell Time | ± 0.3% |
| Conducted Band Edges Measurement | ± 2.7dB |
| Conducted Spurious Emissions | ± 2.7dB |
| Radiated Emissions which fall in the restricted bands | ± 4.4dB (Above 1GHz) |
| Radiated Spurious Emissions Below 1GHz | ± 3.1dB (Below 1GHz) |
| Radiated Spurious Emissions Above 1GHz | ± 4.4dB (Above 1GHz) |



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

Report No.: FYCR230100000902

Page: 7 of 88

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

Report No.: FYCR230100000902

Page: 8 of 88

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 |
| Coaxial Cable | CCS | N/A | SEM033-02 | 2022/5/16 | 2023/5/15 |
| Measurement Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A |

| Conducted Peak Output Power | | | | | |
|------------------------------------|---------------------|------------------|----------------------|-----------------|---------------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| Power Sensor | Erika Fiedler | U2021XA | SEM009-15 | 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 |

| 20dB Bandwidth | | | | | |
|-----------------------|---------------------|------------------|----------------------|-----------------|---------------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| MXA Signal Analyzer | KEYSIGHT | N9020A | SEM004-25 | 2022/5/30 | 2023/5/29 |
| 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 |

| Carrier Frequencies Separation | | | | | |
|---------------------------------------|---------------------|------------------|----------------------|-----------------|---------------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| MXA Signal Analyzer | KEYSIGHT | N9020A | SEM004-25 | 2022/5/30 | 2023/5/29 |
| 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 |

| Hopping Channel Number | | | | | |
|-------------------------------|---------------------|------------------|----------------------|-----------------|---------------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| MXA Signal Analyzer | KEYSIGHT | N9020A | SEM004-25 | 2022/5/30 | 2023/5/29 |
| 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 |

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

Report No.: FYCR230100000902

Page: 9 of 88

| Dwell Time | | | | | |
|----------------------|--------------|---------------|---------------|-----------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| MXA Signal Analyzer | KEYSIGHT | N9020A | SEM004-25 | 2022/5/30 | 2023/5/29 |
| 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 Band Edges Measurement | | | | | |
|----------------------------------|--------------|---------------|---------------|-----------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| MXA Signal Analyzer | KEYSIGHT | N9020A | SEM004-25 | 2022/5/30 | 2023/5/29 |
| 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 |
| MXA Signal Analyzer | KEYSIGHT | N9020A | SEM004-25 | 2022/5/30 | 2023/5/29 |
| 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 |



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

Report No.: FYCR230100000902

Page: 10 of 88

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 |
| Loop Antenna | ETS-LINDGREN | 6502 | SEM003-36 | 2021/9/26 | 2024/9/25 |
| 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 |
| 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 | 2022/7/12 | 2023/7/11 |
| Humidity/ Temperature Indicator | Mingle | TH607 | SEM002-23 | 2022/7/12 | 2023/7/11 |
| Barometer | DUMAI | DYM3 | SEM002-24 | 2022/7/12 | 2023/7/11 |

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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 1.14dBi.

Antenna location: Refer to internal photo.



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6.2 Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence**6.2.1 Test Requirement:**

47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h)

6.2.2 Conclusion

Standard Requirement:

The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

Compliance for section 15.247(a)(1):

According to Technical Specification, the pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.

- > Number of shift register stages: 9
- > Length of pseudo-random sequence: $2^9 - 1 = 511$ bits
- > Longest sequence of zeros: 8 (non-inverted signal)

Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



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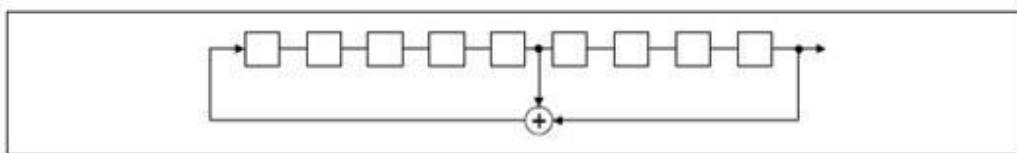
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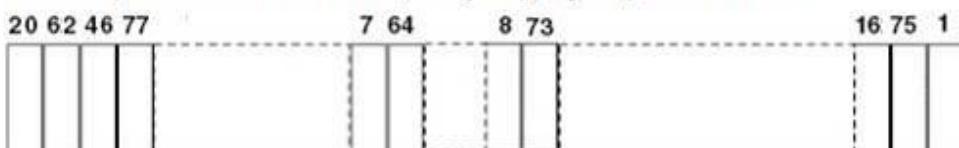
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Report No.: FYCR230100000902

Page: 13 of 88

*Linear Feedback Shift Register for Generation of the PRBS sequence*

An example of Pseudorandom Frequency Hopping Sequence as follow:



Each frequency used equally on the average by each transmitter.

According to Technical Specification, the receivers are designed to have input and IF bandwidths that match the hopping channel bandwidths of any transmitters and shift frequencies in synchronization with the transmitted signals.

Compliance for section 15.247(g):

According to Technical Specification, the system transmits the packet with the pseudorandom hopping frequency with a continuous data and the short burst transmission from the Bluetooth system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system.

Compliance for section 15.247(h):

According to Technical specification, the system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels.

The system is designed not have the ability to coordinate with other FHSS System in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.

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7 Radio Spectrum Matter Test Results

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

Test Requirement 47 CFR Part 15, Subpart C 15.207

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

Limit:

| Frequency of emission(MHz) | Conducted limit(dB μ V) | |
|----------------------------|-----------------------------|-----------|
| | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56* | 56 to 46* |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

*Decreases with the logarithm of the frequency.

Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.1 °C

Humidity: 52.3 % RH

Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 00 | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. |

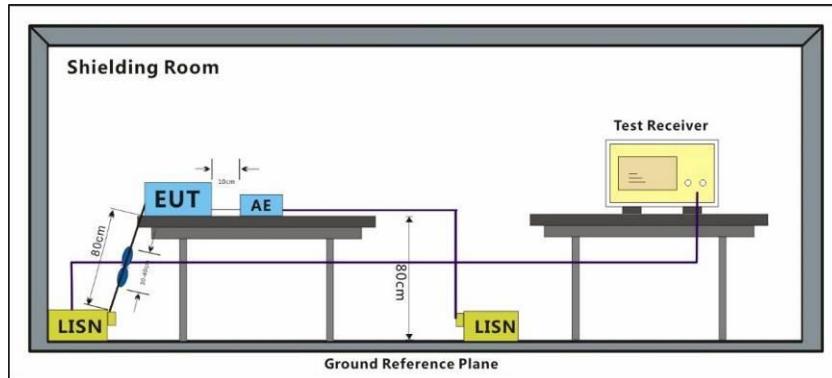
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7.1.3 Test Setup Diagram**7.1.4 Measurement Procedure and Data**

- 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/50 μ H + 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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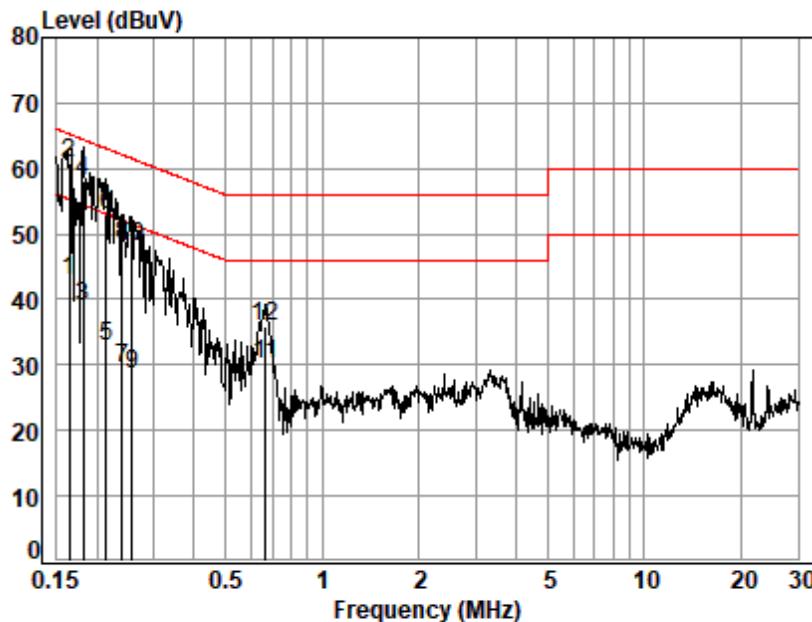
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000902

Page: 16 of 88

Test Mode: 00; Line: Live line



Site : Shielding Room

Condition: Line

Job No. : 00009AT

Test mode: 00

| Freq | Cable | LISN | Read | Limit | Over | Remark |
|------|--------|--------|-------|-------|-------|----------------------|
| | Loss | Factor | Level | Level | Line | |
| | MHz | dB | dB | dBuV | dBuV | dB |
| 1 | 0.1641 | 0.02 | 0.25 | 42.51 | 42.78 | 55.25 -12.47 Average |
| 2 | 0.1641 | 0.02 | 0.25 | 60.62 | 60.89 | 65.25 -4.36 QP |
| 3 | 0.1815 | 0.02 | 0.26 | 38.70 | 38.98 | 54.42 -15.44 Average |
| 4 | 0.1815 | 0.02 | 0.26 | 57.78 | 58.06 | 64.42 -6.36 QP |
| 5 | 0.2139 | 0.02 | 0.26 | 32.60 | 32.88 | 53.05 -20.17 Average |
| 6 | 0.2139 | 0.02 | 0.26 | 52.65 | 52.93 | 63.05 -10.12 QP |
| 7 | 0.2391 | 0.02 | 0.26 | 29.33 | 29.61 | 52.13 -22.52 Average |
| 8 | 0.2391 | 0.02 | 0.26 | 48.06 | 48.34 | 62.13 -13.79 QP |
| 9 | 0.2562 | 0.03 | 0.26 | 28.16 | 28.45 | 51.56 -23.11 Average |
| 10 | 0.2562 | 0.03 | 0.26 | 47.68 | 47.97 | 61.56 -13.59 QP |
| 11 | 0.6683 | 0.02 | 0.23 | 29.78 | 30.03 | 46.00 -15.97 Average |
| 12 | 0.6683 | 0.02 | 0.23 | 35.79 | 36.04 | 56.00 -19.96 QP |

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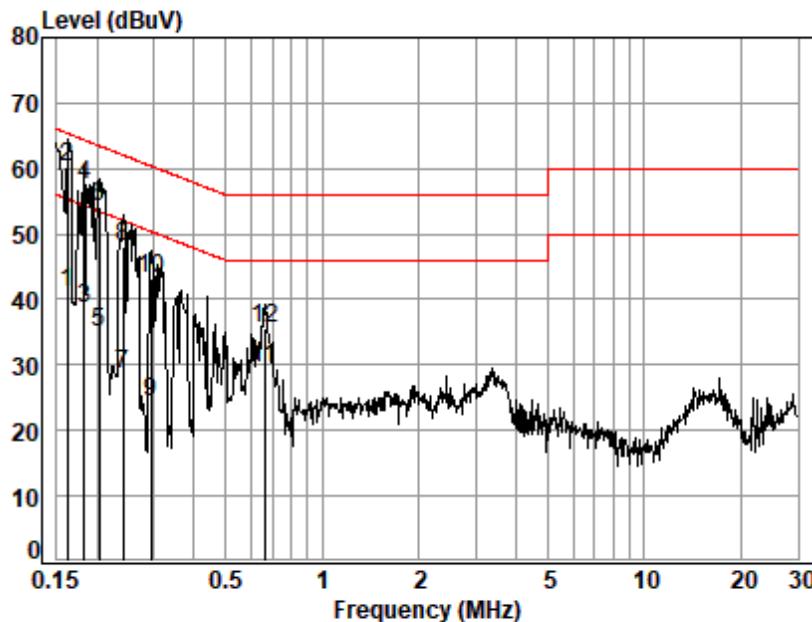
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR230100000902

Page: 17 of 88

Test Mode: 00; Line: Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 00009AT

Test mode: 00

| Freq | Cable | LISN | Read | Limit | Over | Remark | |
|------|--------|------|--------|-------|-------|--------|----------------|
| | Freq | Loss | Factor | Level | Level | Line | Limit |
| | MHz | dB | dB | dBuV | dBuV | dBuV | dB |
| 1 | 0.1615 | 0.02 | 0.30 | 40.70 | 41.02 | 55.38 | -14.36 Average |
| 2 | 0.1615 | 0.02 | 0.30 | 59.78 | 60.10 | 65.38 | -5.28 QP |
| 3 | 0.1825 | 0.02 | 0.30 | 38.43 | 38.75 | 54.37 | -15.62 Average |
| 4 | 0.1825 | 0.02 | 0.30 | 57.03 | 57.35 | 64.37 | -7.02 QP |
| 5 | 0.2029 | 0.02 | 0.29 | 34.75 | 35.06 | 53.49 | -18.43 Average |
| 6 | 0.2029 | 0.02 | 0.29 | 53.83 | 54.14 | 63.49 | -9.35 QP |
| 7 | 0.2404 | 0.02 | 0.29 | 28.33 | 28.64 | 52.08 | -23.44 Average |
| 8 | 0.2404 | 0.02 | 0.29 | 47.82 | 48.13 | 62.08 | -13.95 QP |
| 9 | 0.2940 | 0.03 | 0.28 | 24.10 | 24.41 | 50.41 | -26.00 Average |
| 10 | 0.2940 | 0.03 | 0.28 | 42.87 | 43.18 | 60.41 | -17.23 QP |
| 11 | 0.6613 | 0.02 | 0.18 | 29.19 | 29.39 | 46.00 | -16.61 Average |
| 12 | 0.6613 | 0.02 | 0.18 | 35.43 | 35.63 | 56.00 | -20.37 QP |

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7.2 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(1)

Test Method: ANSI C63.10 (2013) Section 7.8.5

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: 25.5 °C Humidity: 46.4 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

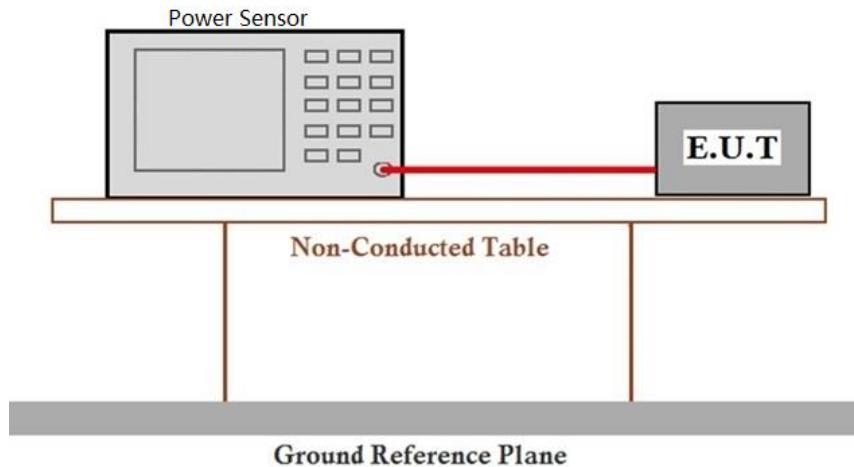
| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 00 | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. |



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7.2.3 Test Setup Diagram**7.2.4 Measurement Procedure and Data**

Please Refer to Appendix for Details



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7.3 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247(a)(1)

Test Method: ANSI C63.10 (2013) Section 7.8.7

7.3.1 E.U.T. Operation

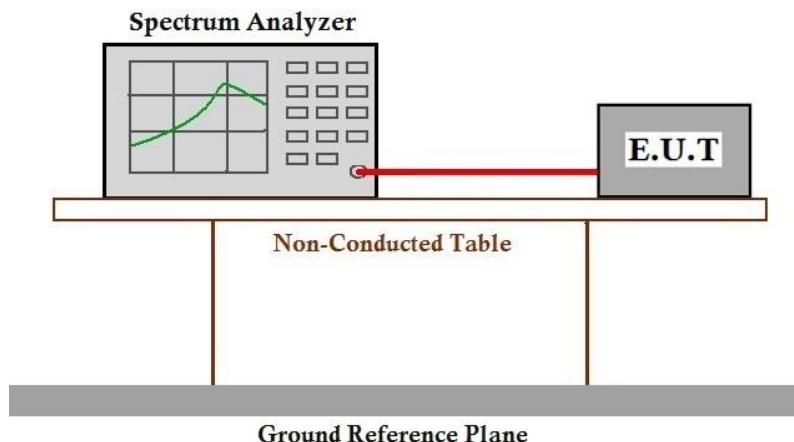
Operating Environment:

Temperature: 25.5 °C Humidity: 46.4 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 00 | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. |

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 Carrier Frequencies Separation

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)
Test Method: ANSI C63.10 (2013) Section 7.8.2

Limit:

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

7.4.1 E.U.T. Operation

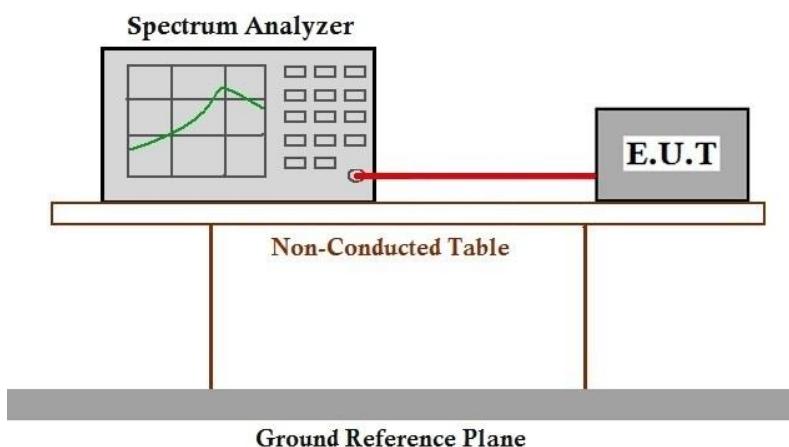
Operating Environment:

Temperature: 25.5 °C Humidity: 46.4 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 01 | TX_Hop mode_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. |

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 Hopping Channel Number

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)(iii)

Test Method: ANSI C63.10 (2013) Section 7.8.3

Limit:

| Frequency range(MHz) | Number of hopping channels (minimum) |
|----------------------|--------------------------------------|
| 902-928 | 50 for 20dB bandwidth <250kHz |
| | 25 for 20dB bandwidth ≥250kHz |
| 2400-2483.5 | 15 |
| 5725-5850 | 75 |

7.5.1 E.U.T. Operation

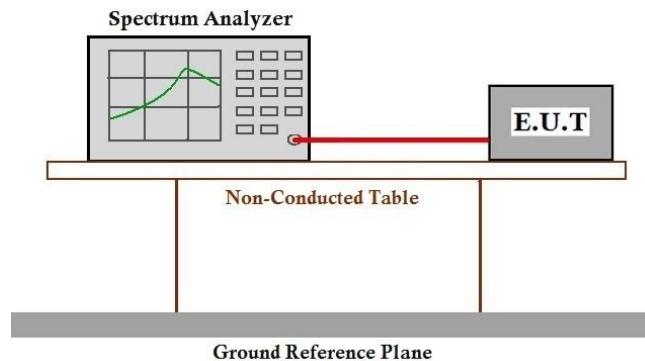
Operating Environment:

Temperature: 25.5 °C Humidity: 46.4 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 01 | TX_Hop mode_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. |

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

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

Report No.: FYCR230100000902

Page: 23 of 88

7.6 Dwell Time

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)(iii)

Test Method: ANSI C63.10 (2013) Section 7.8.4

Limit:

| Frequency(MHz) | Limit |
|----------------|---|
| 902-928 | 0.4S within a 20S period(20dB bandwidth<250kHz) |
| | 0.4S within a 10S period(20dB bandwidth≥250kHz) |
| 2400-2483.5 | 0.4S within a period of 0.4S multiplied by the number of hopping channels |
| 5725-5850 | 0.4S within a 30S period |

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C Humidity: 46.4 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

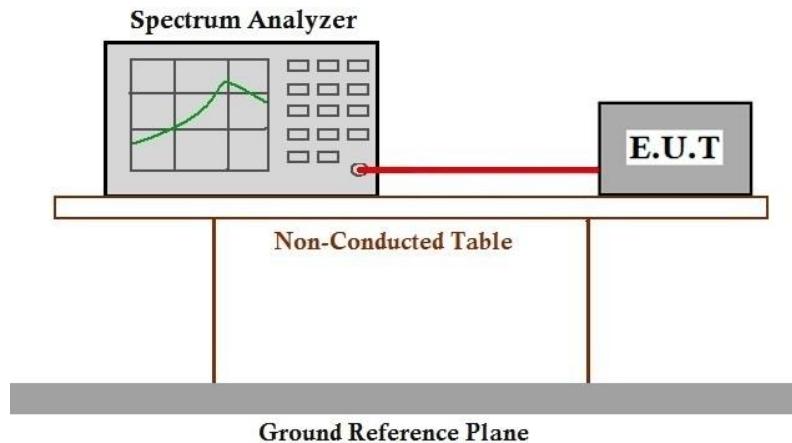
| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 01 | TX_Hop mode_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. |



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7.6.3 Test Setup Diagram**7.6.4 Measurement Procedure and Data**

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7.7 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2013) Section 7.8.6

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)).

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C Humidity: 46.4 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

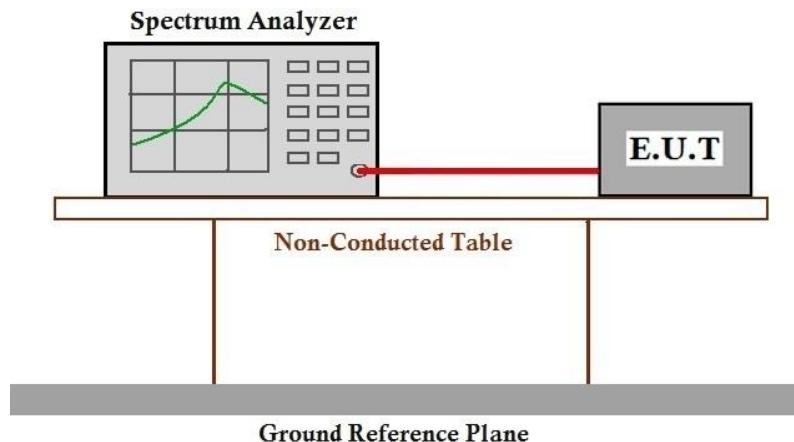
| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 00 | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. |
| Final test | 01 | TX_Hop mode_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. |



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7.7.3 Test Setup Diagram**7.7.4 Measurement Procedure and Data**

Please Refer to Appendix for Details



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7.8 Conducted Spurious Emissions

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

Test Method: ANSI C63.10 (2013) Section 7.8.8

Limit:

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

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C Humidity: 46.4 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

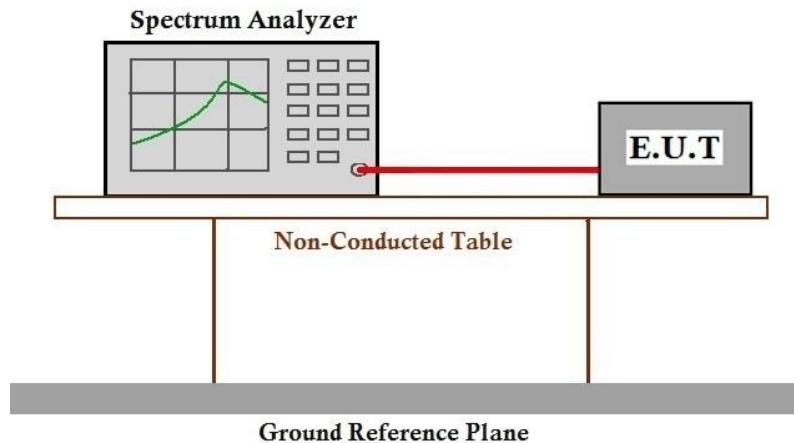
| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 00 | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. |



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

Please Refer to Appendix for Details



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7.9 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.



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

Report No.: FYCR230100000902

Page: 30 of 88

7.9.1 E.U.T. Operation

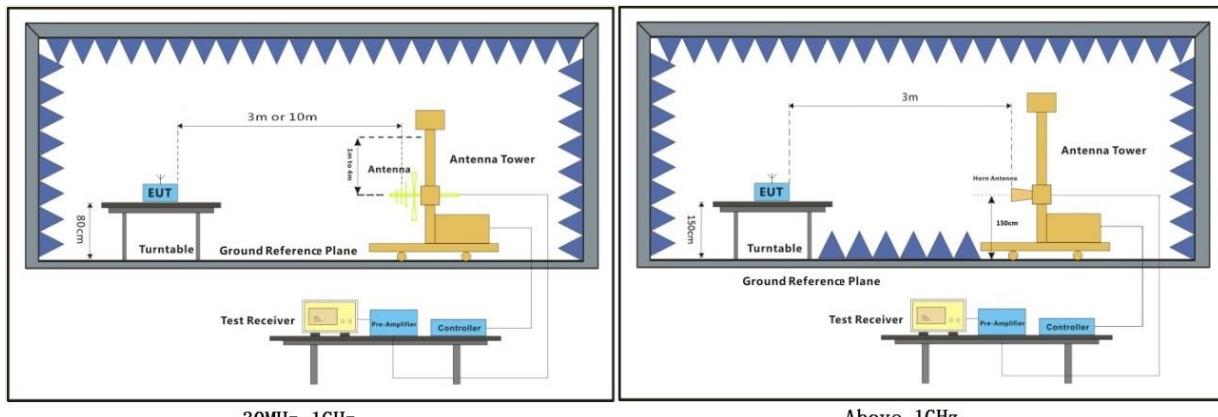
Operating Environment:

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 |
|-----------------------|-----------|--|
| Final test | 00 | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. |

7.9.3 Test Setup Diagram



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

Report No.: FYCR230100000902

Page: 31 of 88

7.9.4 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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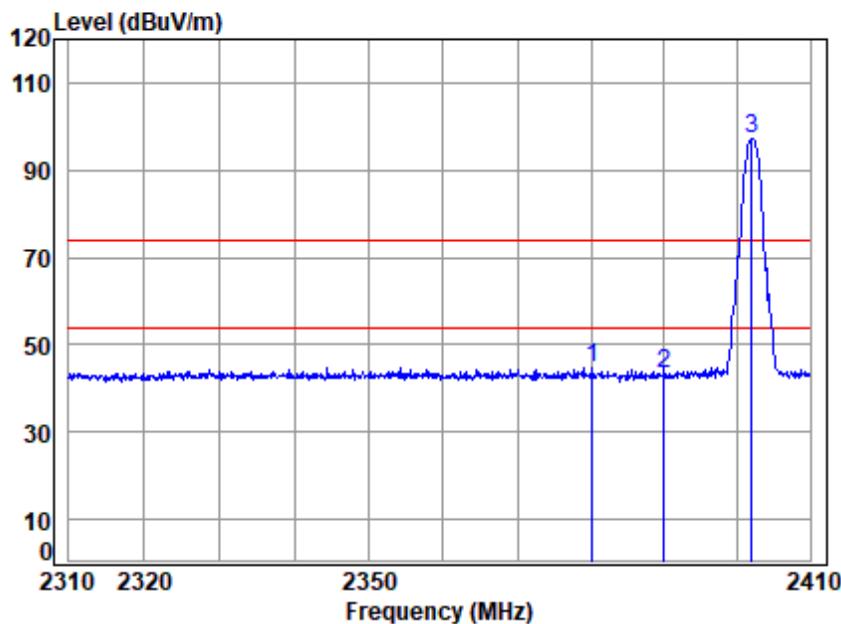
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000902

Page: 32 of 88

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00009AT\00010AT

Mode : 2402 Band edge

Note : BT

| Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Line Limit | Over Limit | Remark | |
|--------------|------------|------------|---------------|------------|-------------|------------|------------|--------|--|
| | | | | | | | | dB | |
| MHz | | | | | | | | | |
| 1 2380.159 | 5.05 | 27.14 | 32.50 | 45.12 | 44.81 | 74.00 | -29.19 | peak | |
| 2 2390.000 | 5.05 | 27.16 | 32.50 | 43.68 | 43.39 | 74.00 | -30.61 | peak | |
| 3 . 2402.000 | 5.06 | 27.18 | 32.50 | 97.29 | 97.03 | 74.00 | 23.03 | peak | |



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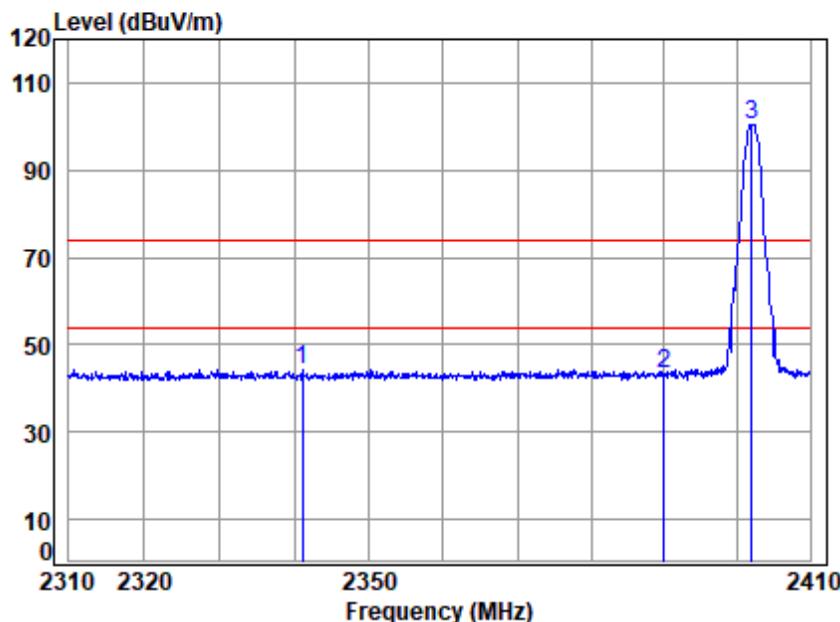
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000902

Page: 33 of 88

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00009AT\00010AT

Mode : 2402 Band edge

Note : BT

| Freq | Cable Loss | Ant Factor | Preamp Factor | Read | Limit Level | Line Limit | Over | Remark | |
|--------------|------------|------------|---------------|--------|-------------|------------|--------|--------|--------|
| | | | | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m |
| MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dBuV/m | dB | |
| 1 2341.044 | 5.02 | 27.05 | 32.50 | 44.72 | 44.29 | 74.00 | -29.71 | peak | |
| 2 2390.000 | 5.05 | 27.16 | 32.50 | 43.56 | 43.27 | 74.00 | -30.73 | peak | |
| 3 . 2402.000 | 5.06 | 27.18 | 32.50 | 100.66 | 100.40 | 74.00 | 26.40 | peak | |

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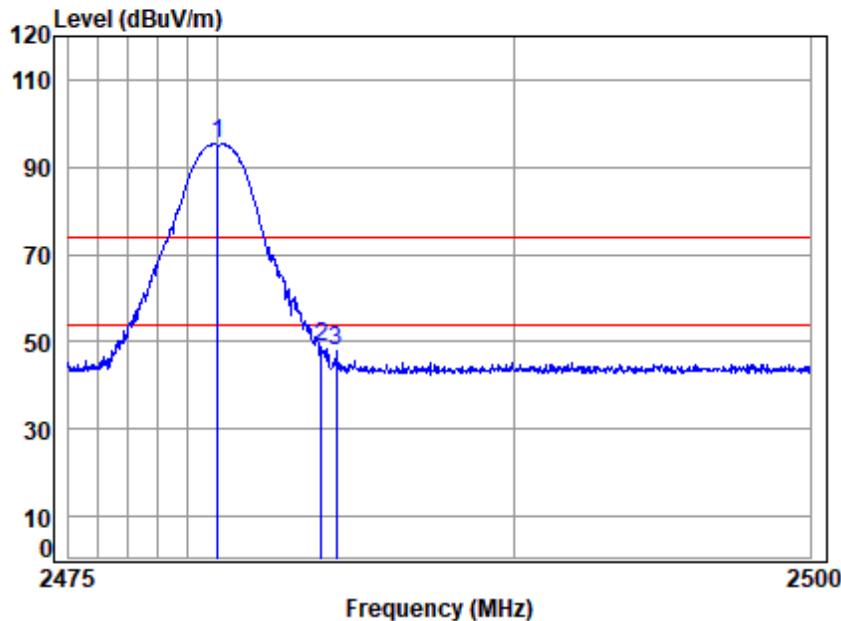
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000902

Page: 34 of 88

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00009AT\00010AT

Mode : 2480 Band edge

Note : BT

| Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Limit Line | Over Limit | Remark | |
|--------------|------------|------------|---------------|------------|-------------|------------|------------|--------|--|
| | | | | | | | | dB | |
| MHz | | | | | | | | | |
| 1 . 2480.000 | 5.12 | 27.36 | 32.50 | 95.22 | 95.20 | 74.00 | 21.20 | peak | |
| 2 2483.500 | 5.12 | 27.36 | 32.50 | 48.97 | 48.95 | 74.00 | -25.05 | peak | |
| 3 2483.996 | 5.12 | 27.37 | 32.50 | 47.88 | 47.87 | 74.00 | -26.13 | peak | |

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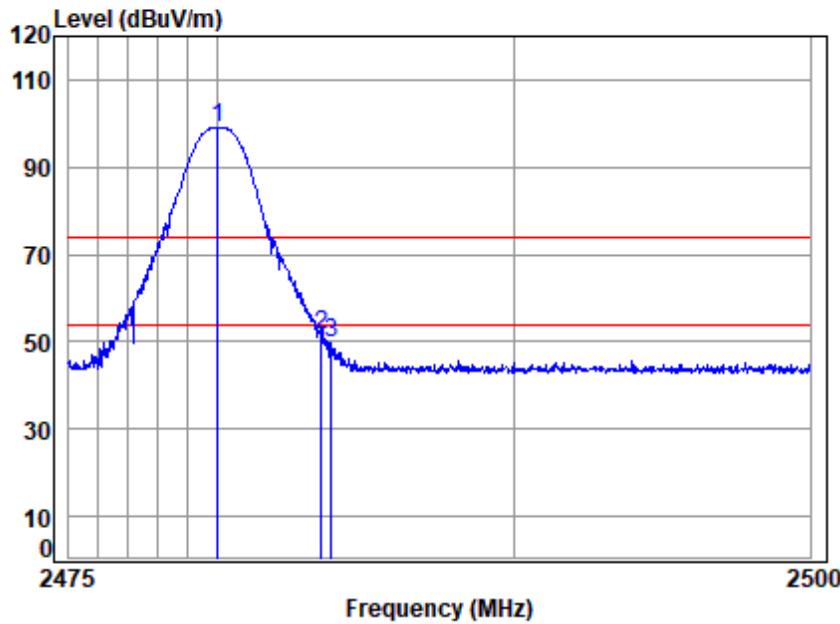
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000902

Page: 35 of 88

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00009AT\00010AT

Mode : 2480 Band edge

Note : BT

| Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Line Limit | Over Limit | Remark | |
|--------------|------------|------------|---------------|------------|-------------|------------|------------|--------|--|
| | | | | | | | | dB | |
| MHz | | | | | | | | | |
| 1 . 2480.000 | 5.12 | 27.36 | 32.50 | 99.00 | 98.98 | 74.00 | 24.98 | peak | |
| 2 2483.500 | 5.12 | 27.36 | 32.50 | 51.37 | 51.35 | 74.00 | -22.65 | peak | |
| 3 2483.821 | 5.12 | 27.37 | 32.50 | 49.60 | 49.59 | 74.00 | -24.41 | peak | |

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7.10 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 |

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 52.6 % RH Atmospheric Pressure: 1020 mbar

7.10.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 00 | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. |

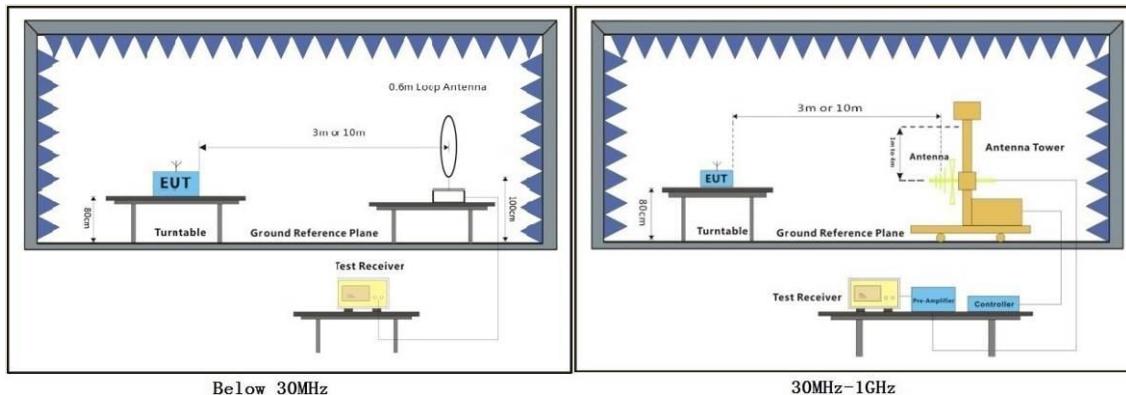
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7.10.3 Test Setup Diagram**7.10.4 Measurement Procedure and Data**

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

Remark:

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



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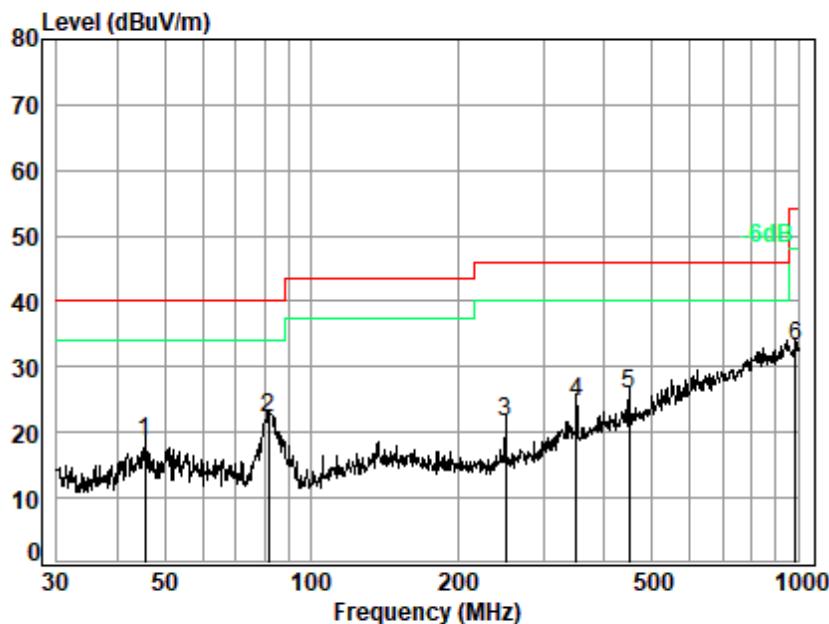
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000902

Page: 38 of 88

Test Mode: 00; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00009AT
Mode : 00

| Freq | Cable | Ant | Preamp | Read | Limit | Over | Remark |
|------|---------|--------|--------|-------|--------|--------|-----------------|
| | Loss | Factor | Factor | Level | Level | Line | |
| MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 45.535 | 0.23 | 17.28 | 26.01 | 26.91 | 18.41 | 40.00 -21.59 QP |
| 2 | 81.783 | 0.51 | 14.26 | 25.78 | 33.27 | 22.26 | 40.00 -17.74 QP |
| 3 | 250.301 | 0.85 | 16.82 | 25.43 | 29.39 | 21.63 | 46.00 -24.37 QP |
| 4 | 350.477 | 1.52 | 19.80 | 25.43 | 28.86 | 24.75 | 46.00 -21.25 QP |
| 5 | 449.556 | 1.49 | 21.68 | 25.48 | 28.25 | 25.94 | 46.00 -20.06 QP |
| 6 | 989.536 | 2.74 | 29.32 | 24.01 | 25.08 | 33.13 | 54.00 -20.87 QP |

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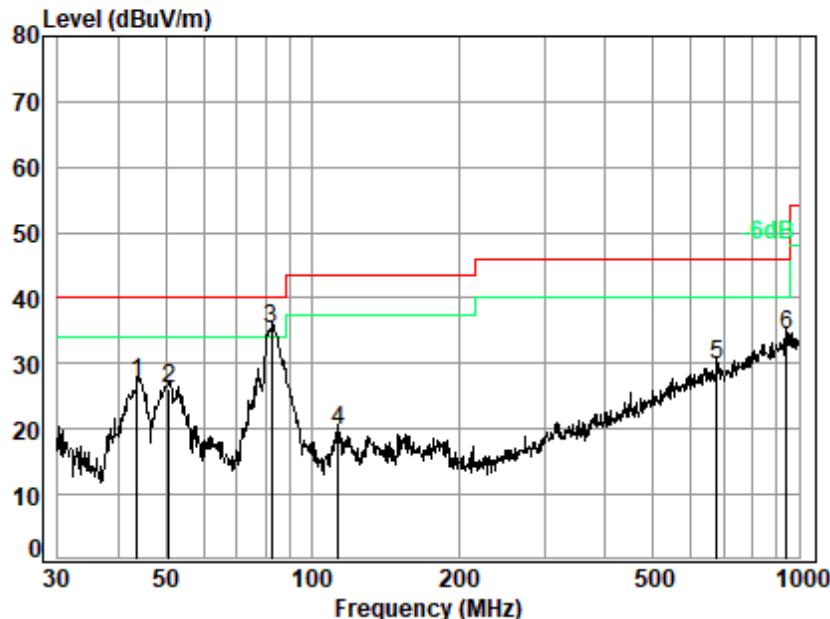
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000902

Page: 39 of 88

Test Mode: 00; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 00009AT

Mode : 00

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---------|------------|------------|---------------|------------|--------|------------|------------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 43.659 | 0.22 | 17.28 | 26.01 | 35.44 | 26.93 | 40.00 | -13.07 | QP |
| 2 | 50.764 | 0.22 | 17.35 | 25.99 | 34.61 | 26.19 | 40.00 | -13.81 | QP |
| 3 | 82.648 | 0.53 | 14.16 | 25.77 | 46.29 | 35.21 | 40.00 | -4.79 | QP |
| 4 | 112.920 | 0.95 | 15.28 | 25.58 | 29.00 | 19.65 | 43.50 | -23.85 | QP |
| 5 | 677.580 | 1.89 | 25.58 | 24.66 | 26.98 | 29.79 | 46.00 | -16.21 | QP |
| 6 | 942.131 | 2.21 | 29.32 | 24.05 | 26.88 | 34.36 | 46.00 | -11.64 | QP |

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

Report No.: FYCR230100000902

Page: 40 of 88

7.11 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 |

7.11.1 E.U.T. Operation

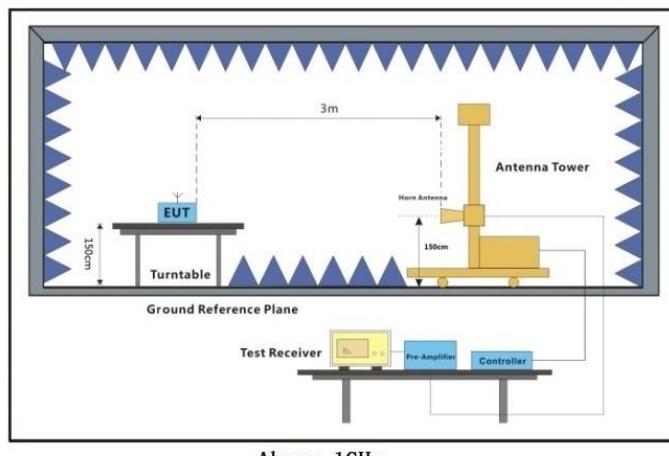
Operating Environment:

Temperature: 23.5 °C Humidity: 56.3 % RH Atmospheric Pressure: 1020 mbar

7.11.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 00 | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. |

7.11.3 Test Setup Diagram



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7.11.4 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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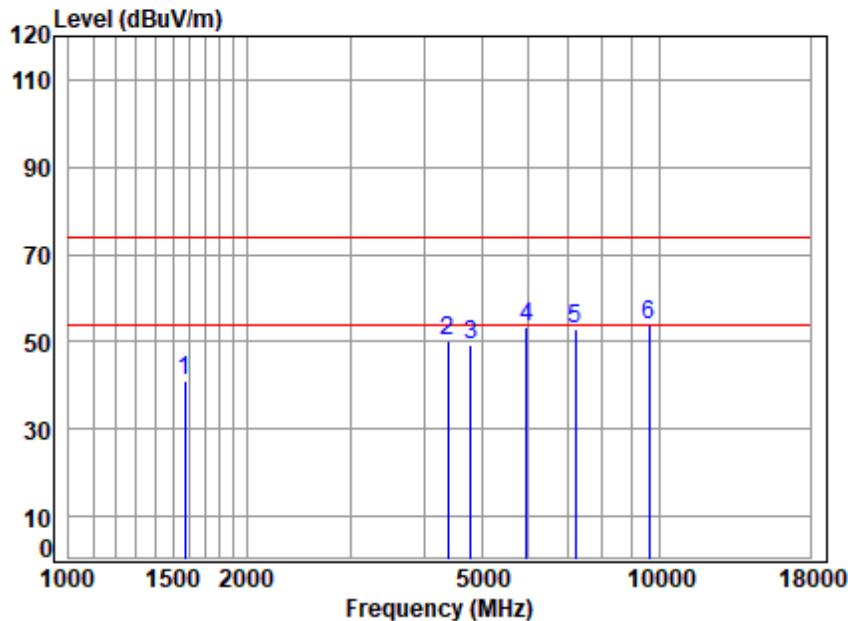
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000902

Page: 42 of 88

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00009AT/00010AT

Mode : 2402 TX RSE

| Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Line Limit | Over Limit | Remark | |
|------|------------|------------|---------------|------------|-------------|------------|------------|--------|------|
| | | | | | | | | dB | |
| MHz | | | | | | | | | |
| 1 | 1574.265 | 3.93 | 24.73 | 52.89 | 65.35 | 41.12 | 74.00 | -32.88 | peak |
| 2 | 4379.699 | 7.47 | 30.04 | 52.92 | 65.50 | 50.09 | 74.00 | -23.91 | peak |
| 3 | 4804.000 | 7.98 | 30.94 | 53.05 | 63.61 | 49.48 | 74.00 | -24.52 | peak |
| 4 | 5967.033 | 7.68 | 32.41 | 52.81 | 65.93 | 53.21 | 74.00 | -20.79 | peak |
| 5 | 7206.000 | 8.29 | 36.05 | 53.52 | 62.16 | 52.98 | 74.00 | -21.02 | peak |
| 6 | 9608.000 | 11.41 | 37.53 | 53.58 | 58.64 | 54.00 | 74.00 | -20.00 | peak |

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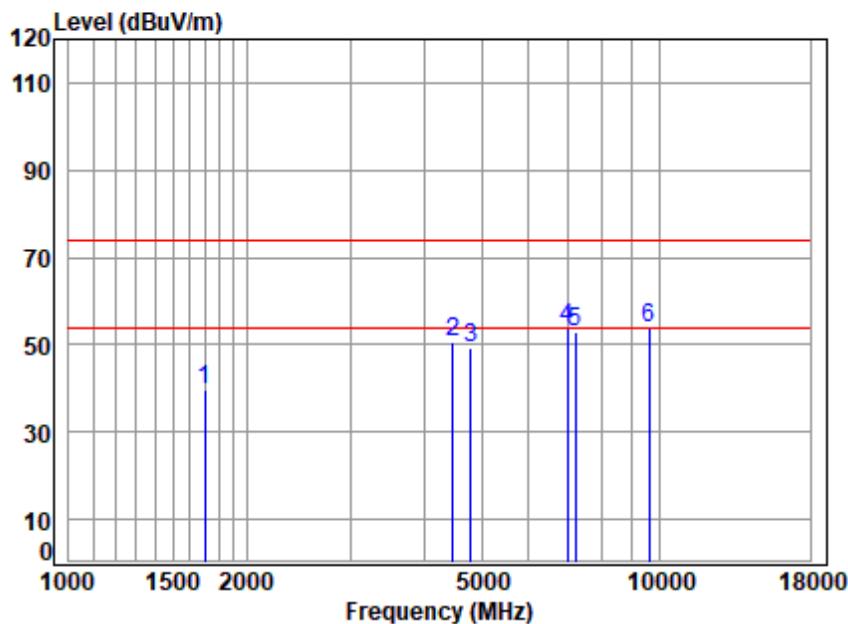
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000902

Page: 43 of 88

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00009AT/00010AT

Mode : 2402 TX RSE

| | Cable | Ant | Preamp | Read | Limit | Over | |
|------|-------|--------|--------|-------|-------|------|-------|
| Freq | Loss | Factor | Factor | Level | Level | Line | Limit |

| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
|---|----------|-------|-------|-------|-------|--------|--------|-------------|
| 1 | 1697.129 | 4.19 | 25.00 | 52.96 | 63.56 | 39.79 | 74.00 | -34.21 peak |
| 2 | 4469.214 | 7.47 | 30.16 | 52.95 | 65.92 | 50.60 | 74.00 | -23.40 peak |
| 3 | 4804.000 | 7.98 | 30.94 | 53.05 | 63.61 | 49.48 | 74.00 | -24.52 peak |
| 4 | 6995.172 | 8.19 | 35.79 | 53.50 | 63.27 | 53.75 | 74.00 | -20.25 peak |
| 5 | 7206.000 | 8.29 | 36.05 | 53.52 | 62.01 | 52.83 | 74.00 | -21.17 peak |
| 6 | 9608.000 | 11.41 | 37.53 | 53.58 | 58.37 | 53.73 | 74.00 | -20.27 peak |



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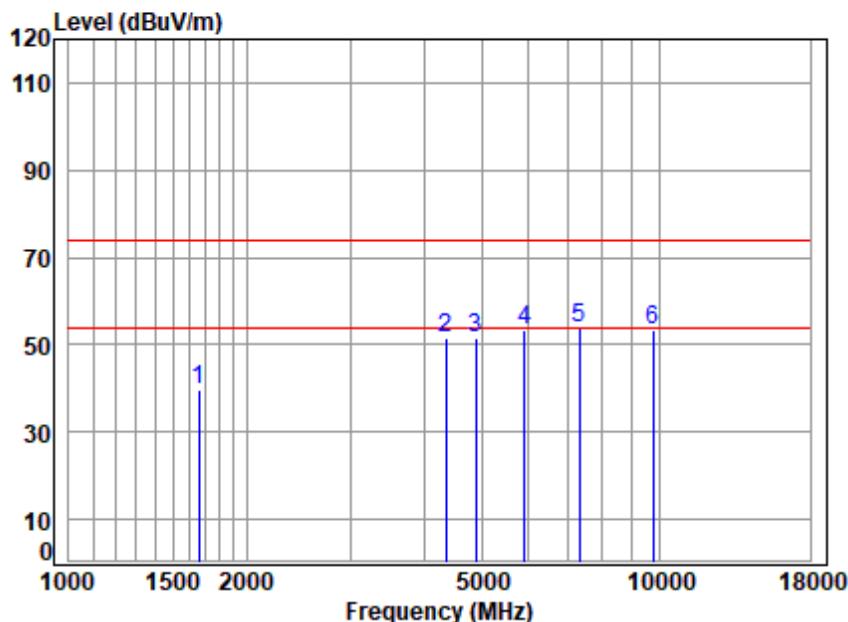
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000902

Page: 44 of 88

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00009AT/00010AT

Mode : 2441 TX RSE

| | Cable | Ant | Preamp | Read | Limit | Over | |
|------|-------|--------|--------|-------|-------|------|-------|
| Freq | Loss | Factor | Factor | Level | Level | Line | Limit |

| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
|---|----------|-------|-------|-------|-------|--------|--------|-------------|
| 1 | 1663.137 | 4.12 | 24.93 | 52.94 | 63.66 | 39.77 | 74.00 | -34.23 peak |
| 2 | 4354.454 | 7.48 | 30.00 | 52.91 | 67.13 | 51.70 | 74.00 | -22.30 peak |
| 3 | 4882.000 | 8.11 | 31.13 | 53.07 | 65.51 | 51.68 | 74.00 | -22.32 peak |
| 4 | 5915.516 | 7.74 | 32.43 | 52.82 | 66.14 | 53.49 | 74.00 | -20.51 peak |
| 5 | 7323.000 | 8.35 | 36.19 | 53.53 | 62.64 | 53.65 | 74.00 | -20.35 peak |
| 6 | 9764.000 | 11.29 | 37.88 | 53.43 | 57.58 | 53.32 | 74.00 | -20.68 peak |

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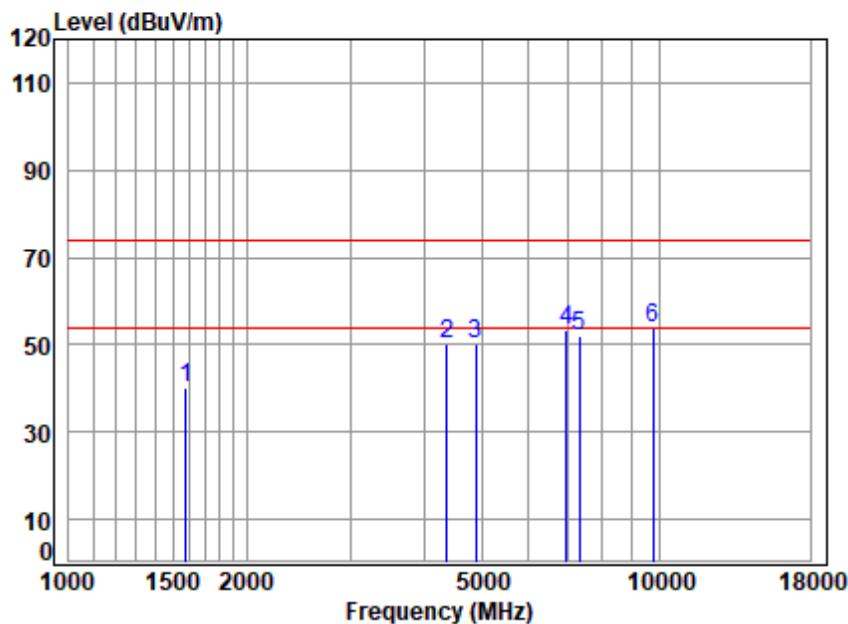
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR230100000902

Page: 45 of 88

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00009AT/00010AT

Mode : 2441 TX RSE

| Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Line Limit | Over Limit | Remark | |
|------|------------|------------|---------------|------------|-------------|------------|------------|--------|------|
| | | | | | | | | dB | |
| MHz | | | | | | | | | |
| 1 | 1578.822 | 3.94 | 24.74 | 52.90 | 64.56 | 40.34 | 74.00 | -33.66 | peak |
| 2 | 4367.058 | 7.48 | 30.02 | 52.92 | 65.84 | 50.42 | 74.00 | -23.58 | peak |
| 3 | 4882.000 | 8.11 | 31.13 | 53.07 | 64.00 | 50.17 | 74.00 | -23.83 | peak |
| 4 | 6954.852 | 8.15 | 35.70 | 53.47 | 62.92 | 53.30 | 74.00 | -20.70 | peak |
| 5 | 7323.000 | 8.35 | 36.19 | 53.53 | 61.13 | 52.14 | 74.00 | -21.86 | peak |
| 6 | 9764.000 | 11.29 | 37.88 | 53.43 | 57.88 | 53.62 | 74.00 | -20.38 | peak |

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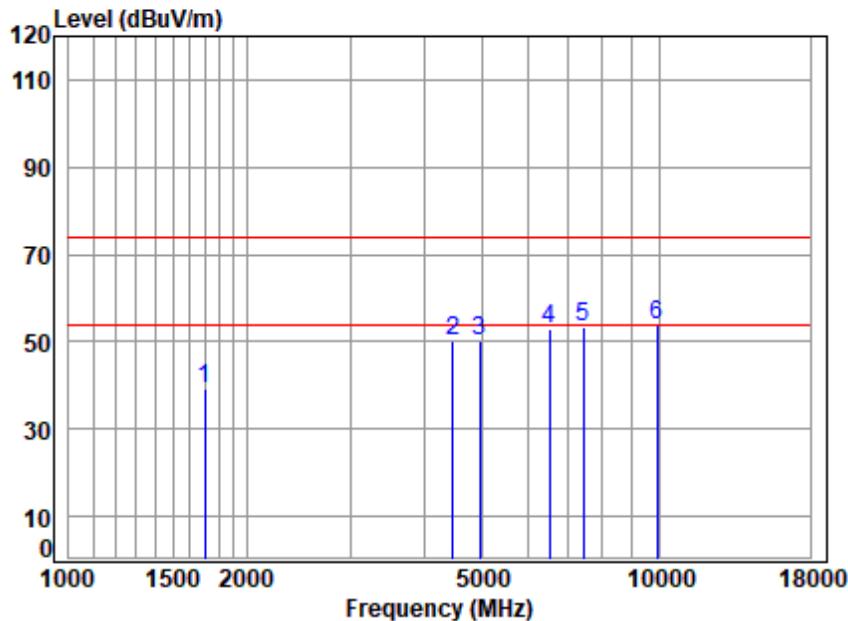
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000902

Page: 46 of 88

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00009AT/00010AT

Mode : 2480 TX RSE

| Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Line Limit | Over Remark | Over | |
|------------|------------|------------|---------------|------------|-------------|------------|-------------|------|--------|
| | | | | | | | | dBuV | dBuV/m |
| MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | dB | dB |
| 1 1702.042 | 4.20 | 25.01 | 52.96 | 62.78 | 39.03 | 74.00 | -34.97 | peak | |
| 2 4469.214 | 7.47 | 30.16 | 52.95 | 65.53 | 50.21 | 74.00 | -23.79 | peak | |
| 3 4960.000 | 8.24 | 31.31 | 53.09 | 63.85 | 50.31 | 74.00 | -23.69 | peak | |
| 4 6526.373 | 7.73 | 34.67 | 53.18 | 63.84 | 53.06 | 74.00 | -20.94 | peak | |
| 5 7440.000 | 8.40 | 36.33 | 53.55 | 62.17 | 53.35 | 74.00 | -20.65 | peak | |
| 6 9920.000 | 11.18 | 38.22 | 53.28 | 57.52 | 53.64 | 74.00 | -20.36 | peak | |

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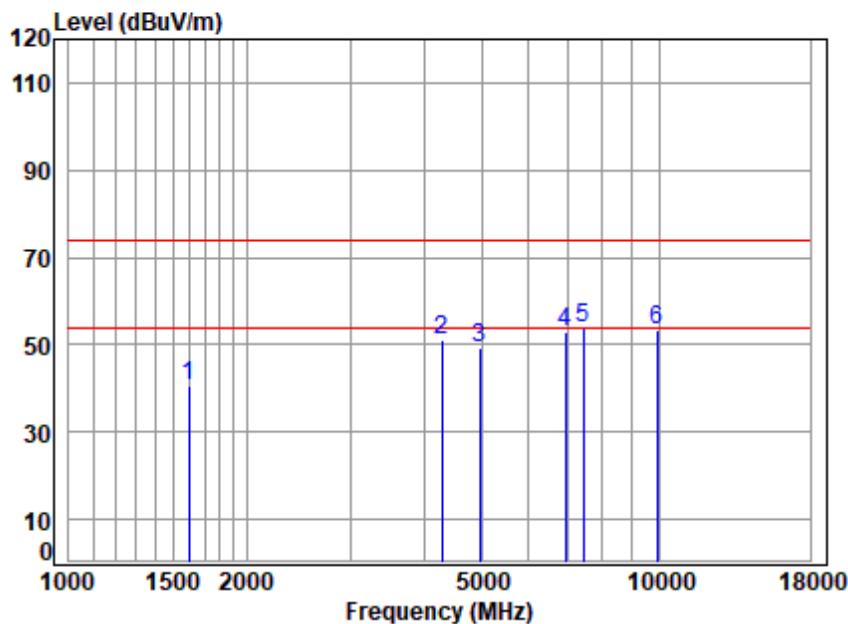
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000902

Page: 47 of 88

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00009AT/00010AT

Mode : 2480 TX RSE

| | Cable | Ant | Preamp | Read | Limit | Over | |
|------|-------|--------|--------|-------|-------|------|-------|
| Freq | Loss | Factor | Factor | Level | Level | Line | Limit |

| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
|---|----------|-------|-------|-------|-------|--------|--------|-------------|
| 1 | 1597.181 | 3.98 | 24.79 | 52.91 | 64.67 | 40.53 | 74.00 | -33.47 peak |
| 2 | 4291.977 | 7.48 | 29.92 | 52.89 | 66.49 | 51.00 | 74.00 | -23.00 peak |
| 3 | 4960.000 | 8.24 | 31.31 | 53.09 | 62.89 | 49.35 | 74.00 | -24.65 peak |
| 4 | 6934.778 | 8.13 | 35.65 | 53.46 | 62.73 | 53.05 | 74.00 | -20.95 peak |
| 5 | 7440.000 | 8.40 | 36.33 | 53.55 | 62.64 | 53.82 | 74.00 | -20.18 peak |
| 6 | 9920.000 | 11.18 | 38.22 | 53.28 | 57.24 | 53.36 | 74.00 | -20.64 peak |

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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR2301000009AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for FYCR2301000009AT



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10 Appendix

1. Bandwidth

1.1 20dB BW

1.1.1 Test Result

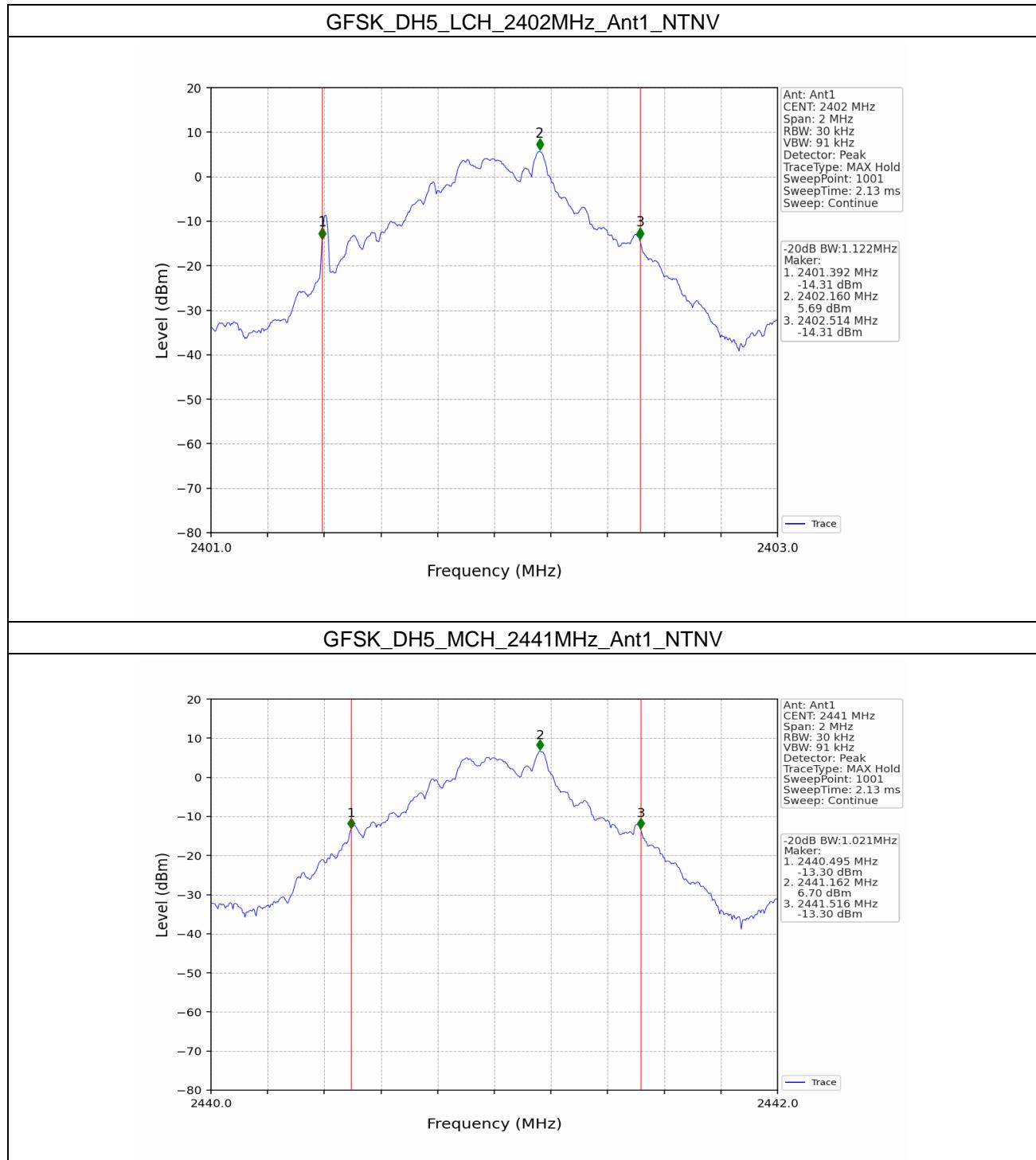
| Mode | TX Type | Frequency (MHz) | Packet Type | ANT | 20dB Bandwidth (MHz) | Verdict |
|-----------|---------|-----------------|-------------|-----|----------------------|---------|
| | | | | | Result | |
| GFSK | SISO | 2402 | DH5 | 1 | 1.122 | Pass |
| | | 2441 | DH5 | 1 | 1.021 | Pass |
| | | 2480 | DH5 | 1 | 1.021 | Pass |
| Pi/4DQPSK | SISO | 2402 | 2DH5 | 1 | 1.363 | Pass |
| | | 2441 | 2DH5 | 1 | 1.356 | Pass |
| | | 2480 | 2DH5 | 1 | 1.364 | Pass |
| 8DPSK | SISO | 2402 | 3DH5 | 1 | 1.310 | Pass |
| | | 2441 | 3DH5 | 1 | 1.287 | Pass |
| | | 2480 | 3DH5 | 1 | 1.310 | Pass |

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1.1.2 Test Graph

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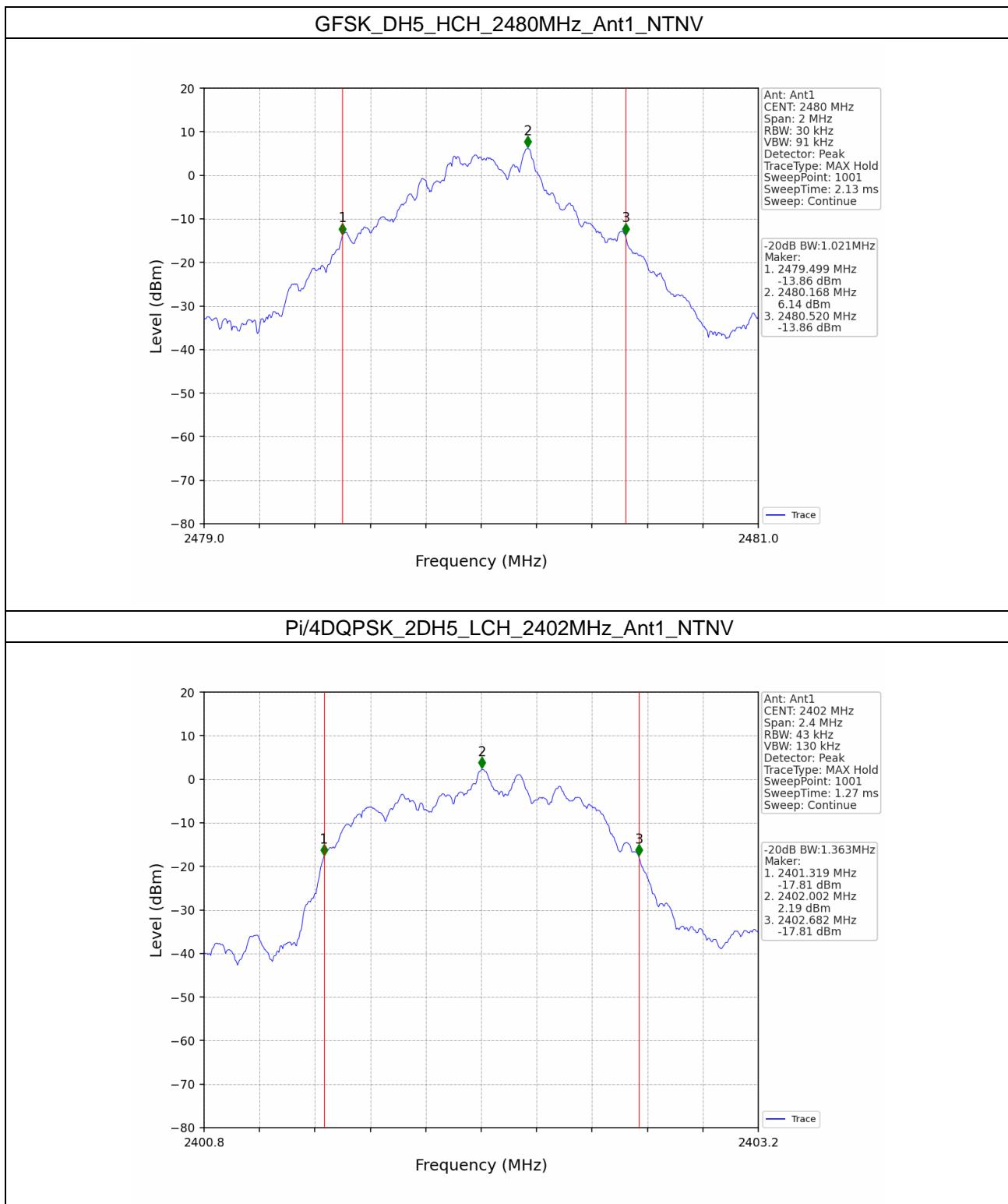
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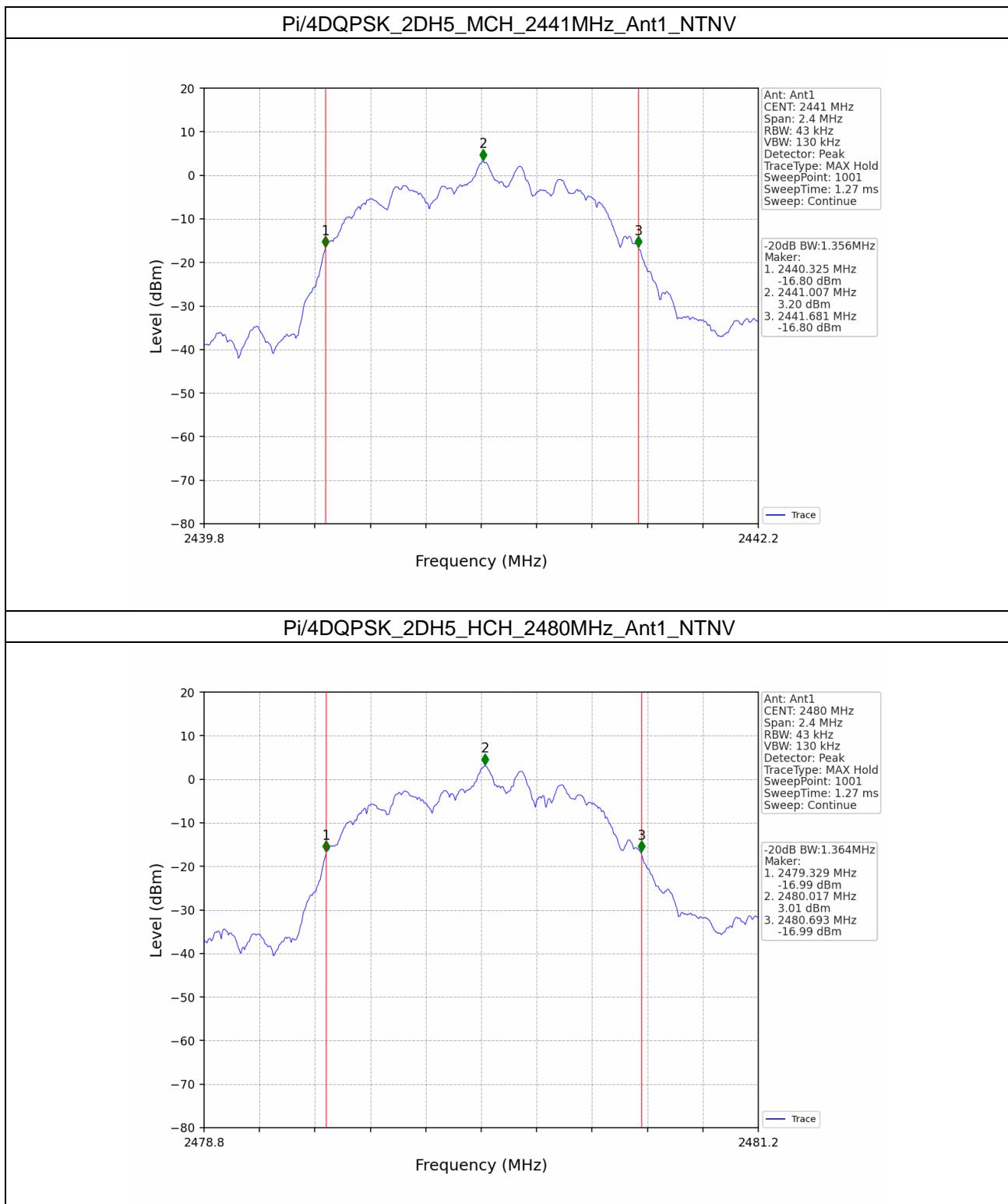
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Page: 52 of 88



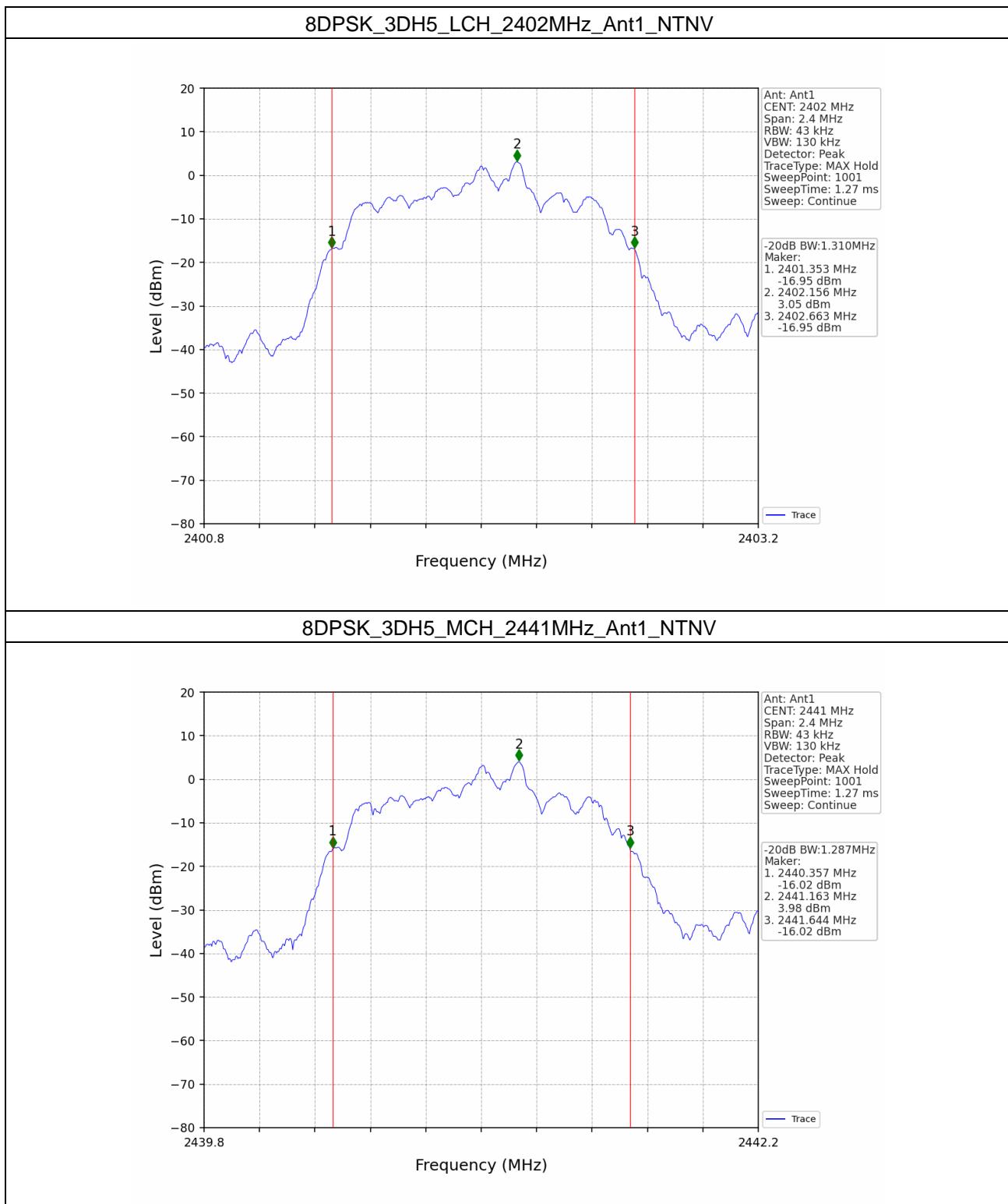
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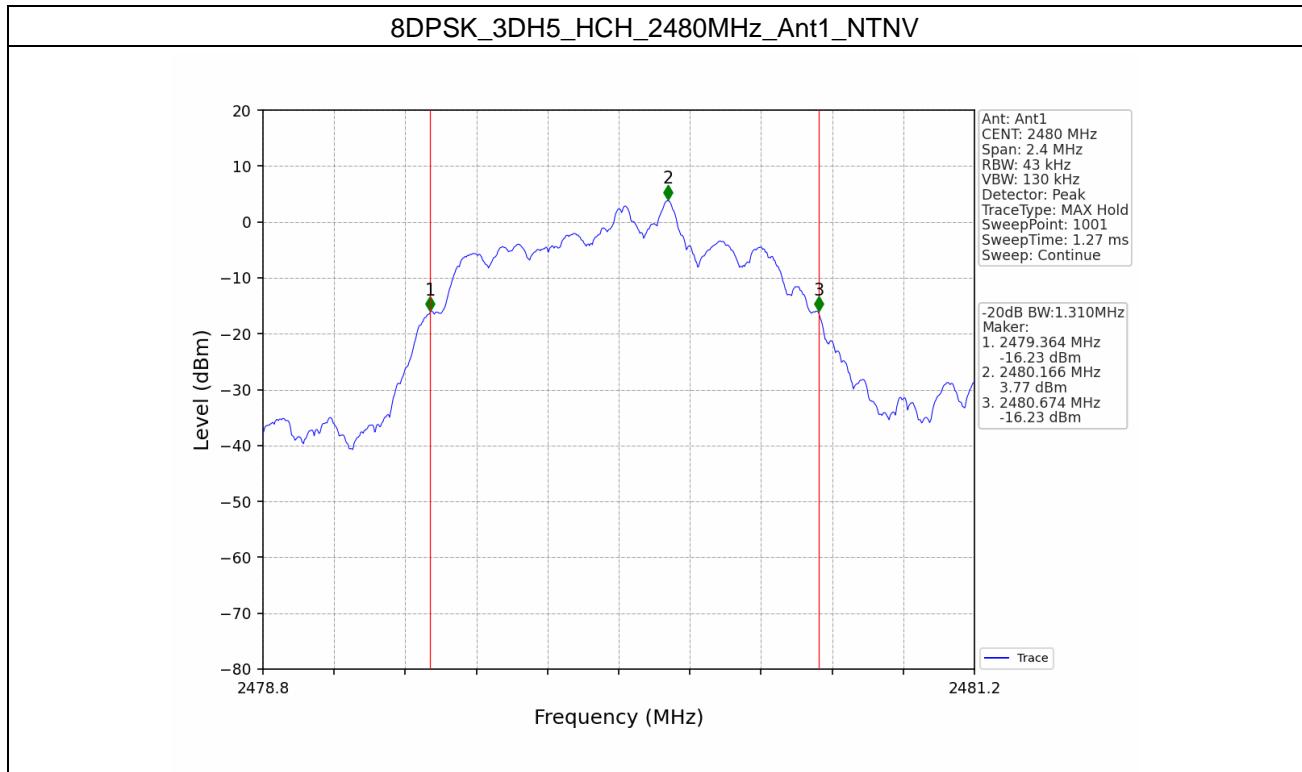
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2. Maximum Conducted Output Power

2.1 Power

2.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | Packet Type | Maximum Peak Conducted Output Power (dBm) | | Verdict |
|-----------|---------|-----------------|-------------|---|---------|---------|
| | | | | ANT1 | Limit | |
| GFSK | SISO | 2402 | DH5 | 6.74 | <=20.97 | Pass |
| | | 2441 | DH5 | 7.80 | <=20.97 | Pass |
| | | 2480 | DH5 | 7.22 | <=20.97 | Pass |
| Pi/4DQPSK | SISO | 2402 | 2DH5 | 5.17 | <=20.97 | Pass |
| | | 2441 | 2DH5 | 6.04 | <=20.97 | Pass |
| | | 2480 | 2DH5 | 5.63 | <=20.97 | Pass |
| 8DPSK | SISO | 2402 | 3DH5 | 5.46 | <=20.97 | Pass |
| | | 2441 | 3DH5 | 6.26 | <=20.97 | Pass |
| | | 2480 | 3DH5 | 5.82 | <=20.97 | Pass |

3. Carrier Frequency Separation

3.1 Ant1

3.1.1 Test Result

| Ant1 | | | | | | | |
|-----------|---------|-----------------|-------------|--------------------------|----------------------|-------------|---------|
| Mode | TX Type | Frequency (MHz) | Packet Type | Channel Separation (MHz) | 20dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| GFSK | SISO | HOPP | DH5 | 1.016 | 1.122 | >=0.748 | Pass |
| Pi/4DQPSK | SISO | HOPP | 2DH5 | 1.013 | 1.364 | >=0.909 | Pass |
| 8DPSK | SISO | HOPP | 3DH5 | 0.989 | 1.310 | >=0.873 | Pass |

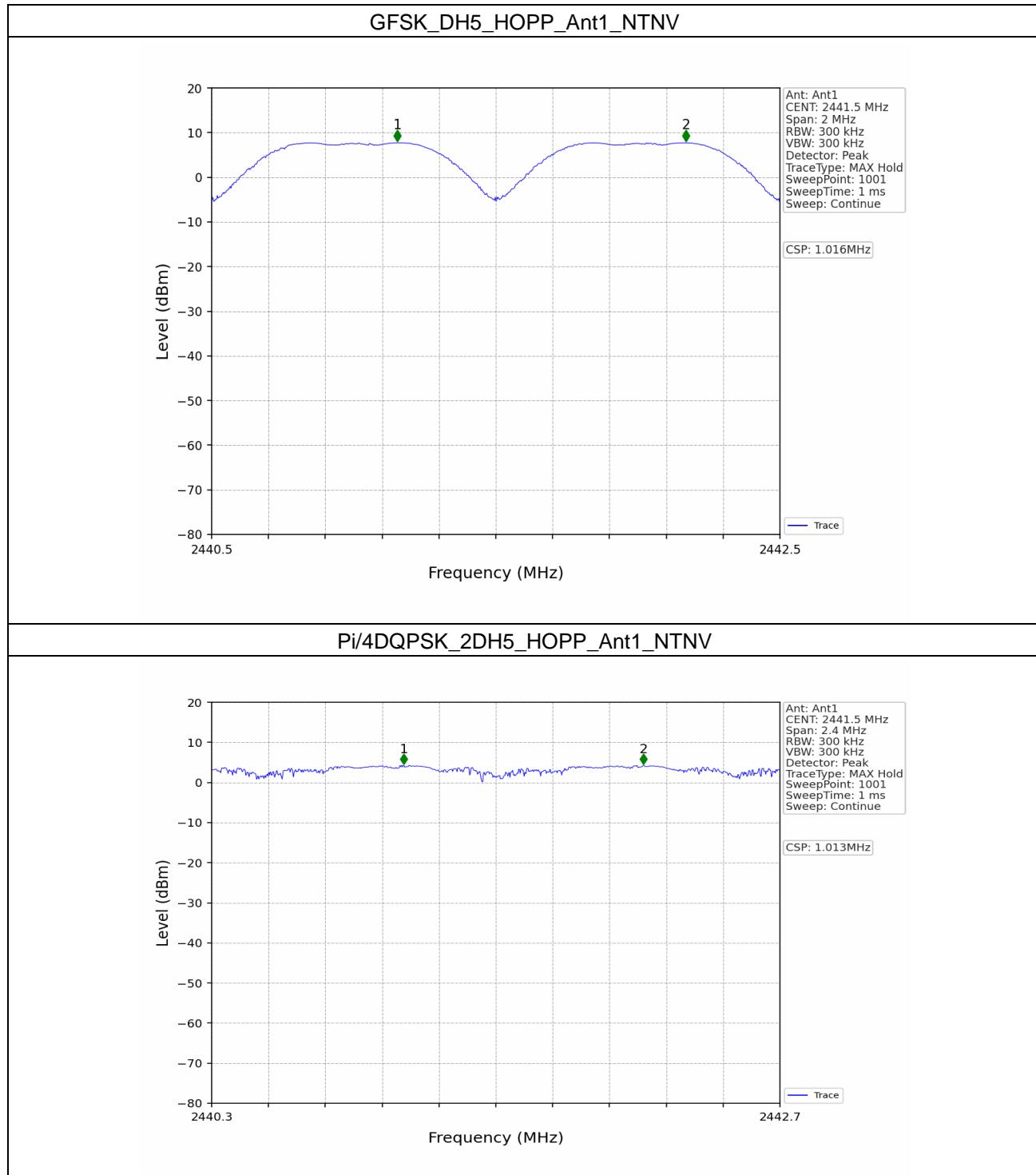
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3.1.2 Test Graph

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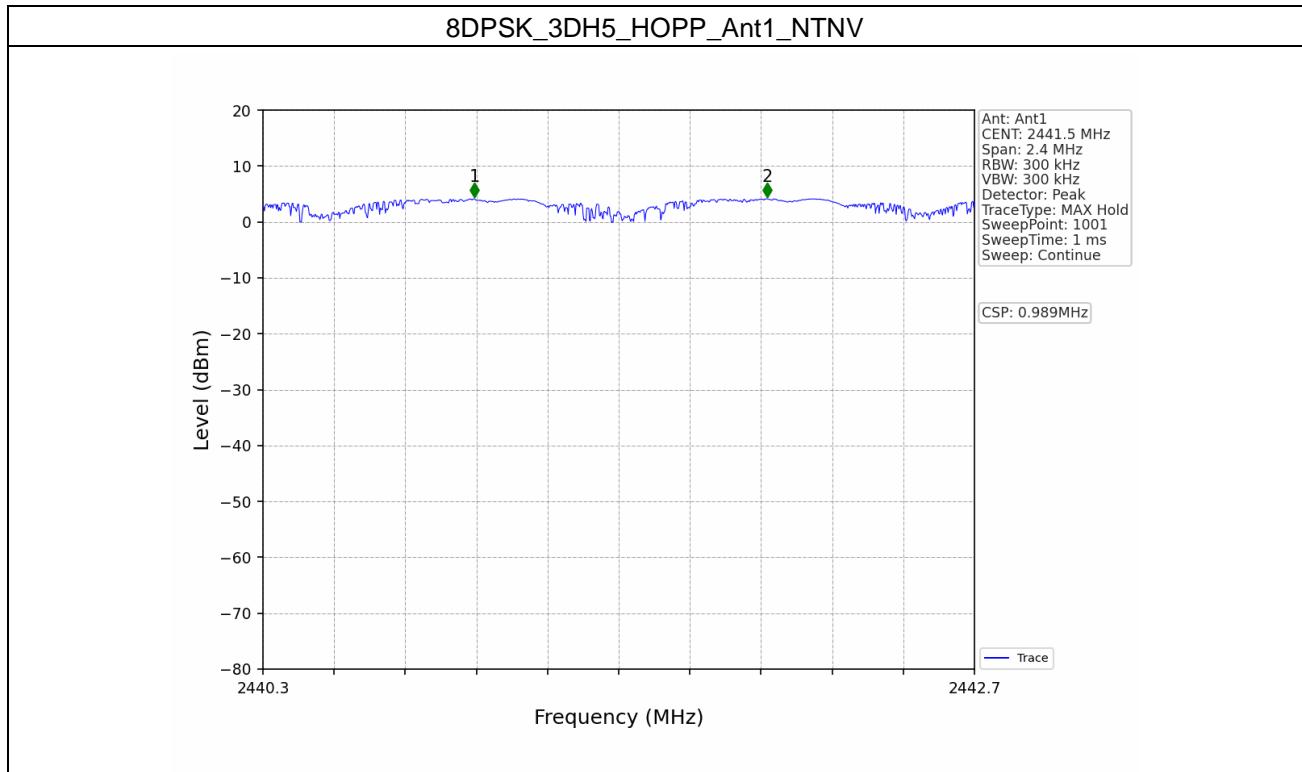
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000902

Page: 57 of 88



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4. Number of Hopping Frequencies

4.1 HoppNum

4.1.1 Test Result

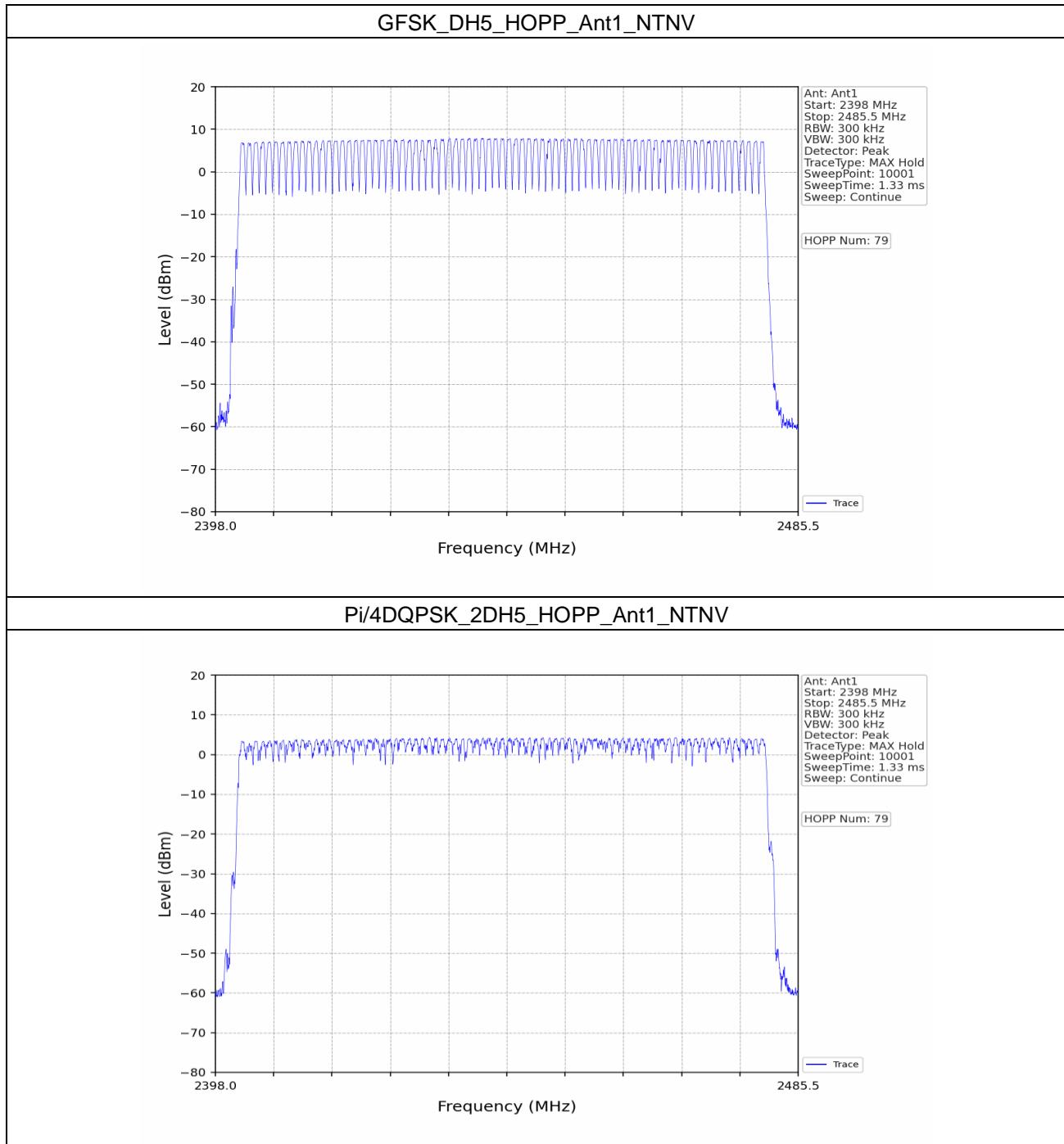
| Mode | TX Type | Frequency (MHz) | Packet Type | Num of Hopping Frequencies | | Verdict |
|-----------|---------|-----------------|-------------|----------------------------|-------|---------|
| | | | | ANT1 | Limit | |
| GFSK | SISO | HOPP | DH5 | 79 | >=15 | Pass |
| Pi/4DQPSK | SISO | HOPP | 2DH5 | 79 | >=15 | Pass |
| 8DPSK | SISO | HOPP | 3DH5 | 79 | >=15 | Pass |



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4.1.2 Test Graph

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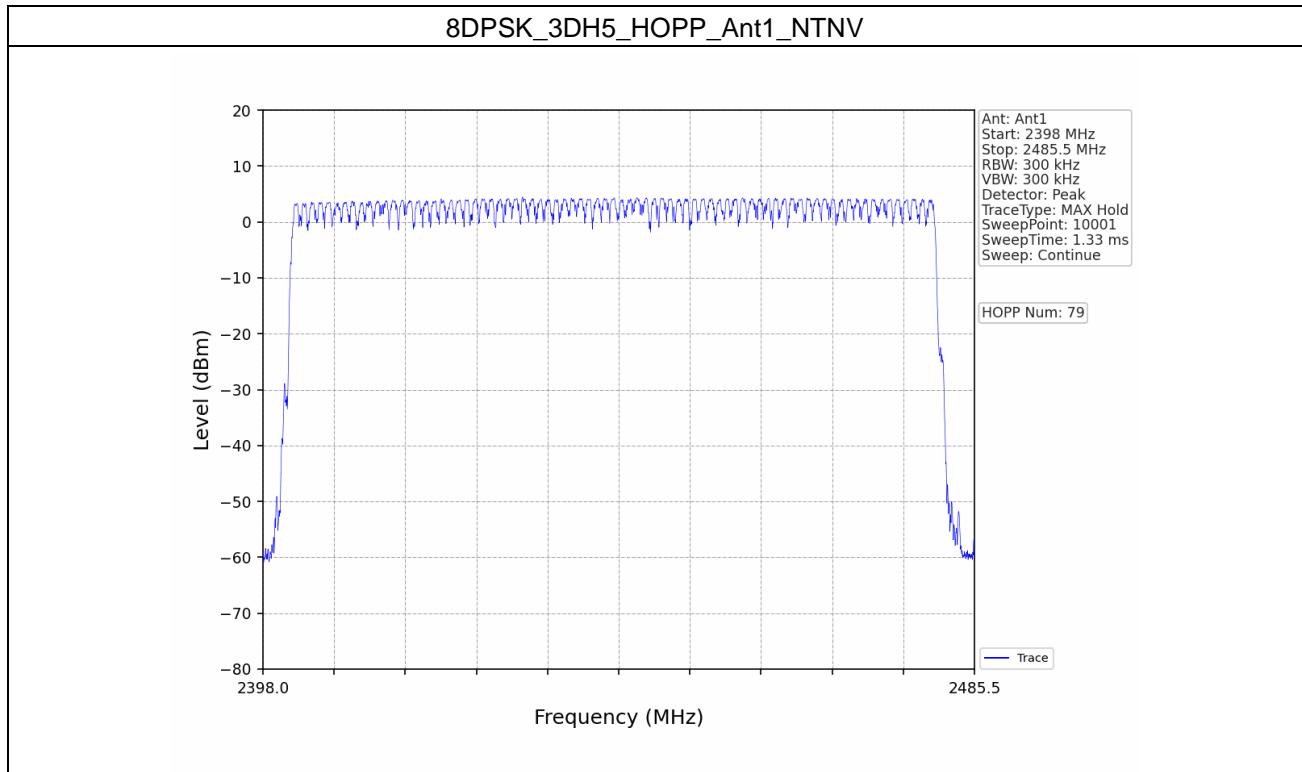
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000902

Page: 60 of 88



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5. Time of Occupancy (Dwell Time)

5.1 Ant1

5.1.1 Test Result

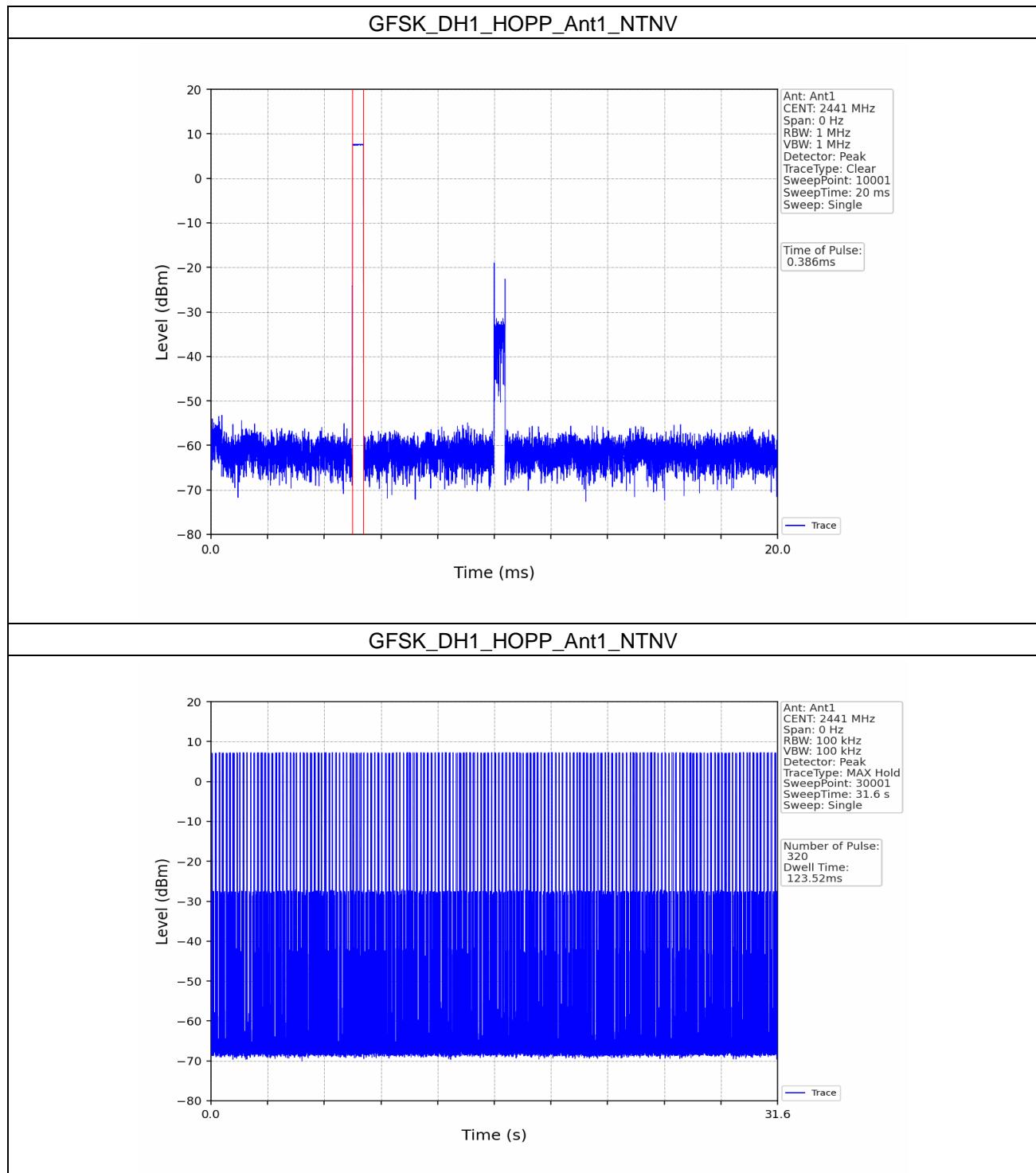
| Ant1 | | | | | | | | | |
|-----------|---------|-----------------|-------------|-------------------------------|------------------------|------------------------------------|-----------------|------------|---------|
| Mode | TX Type | Frequency (MHz) | Packet Type | Duration of Single Pulse (ms) | Observation Period (s) | Num of Pulse in Observation Period | Dwell Time (ms) | Limit (ms) | Verdict |
| GFSK | SISO | HOPP | DH1 | 0.386 | 31.600 | 320 | 123.520 | <=400 | Pass |
| | | | DH3 | 0.476 | 31.600 | 164 | 78.064 | <=400 | Pass |
| | | | DH5 | 0.488 | 31.600 | 101 | 49.288 | <=400 | Pass |
| Pi/4DQPSK | SISO | HOPP | 2DH1 | 0.326 | 31.600 | 320 | 104.320 | <=400 | Pass |
| | | | 2DH3 | 0.336 | 31.600 | 162 | 54.432 | <=400 | Pass |
| | | | 2DH5 | 0.336 | 31.600 | 107 | 35.952 | <=400 | Pass |
| 8DPSK | SISO | HOPP | 3DH1 | 0.272 | 31.600 | 320 | 87.040 | <=400 | Pass |
| | | | 3DH3 | 0.284 | 31.600 | 154 | 43.736 | <=400 | Pass |
| | | | 3DH5 | 0.272 | 31.600 | 121 | 32.912 | <=400 | Pass |

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5.1.2 Test Graph

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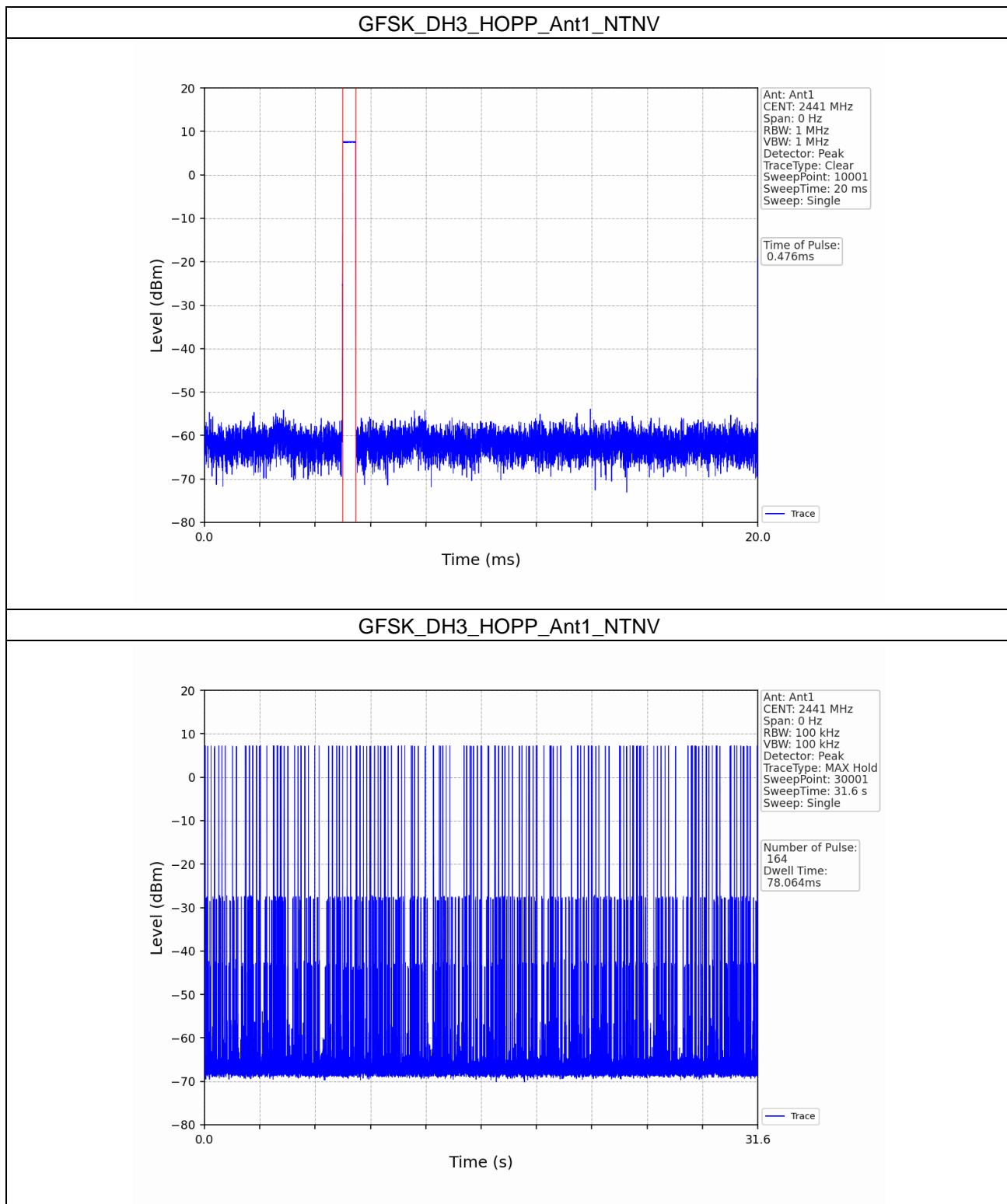
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Report No.: FYCR230100000902

Page: 63 of 88



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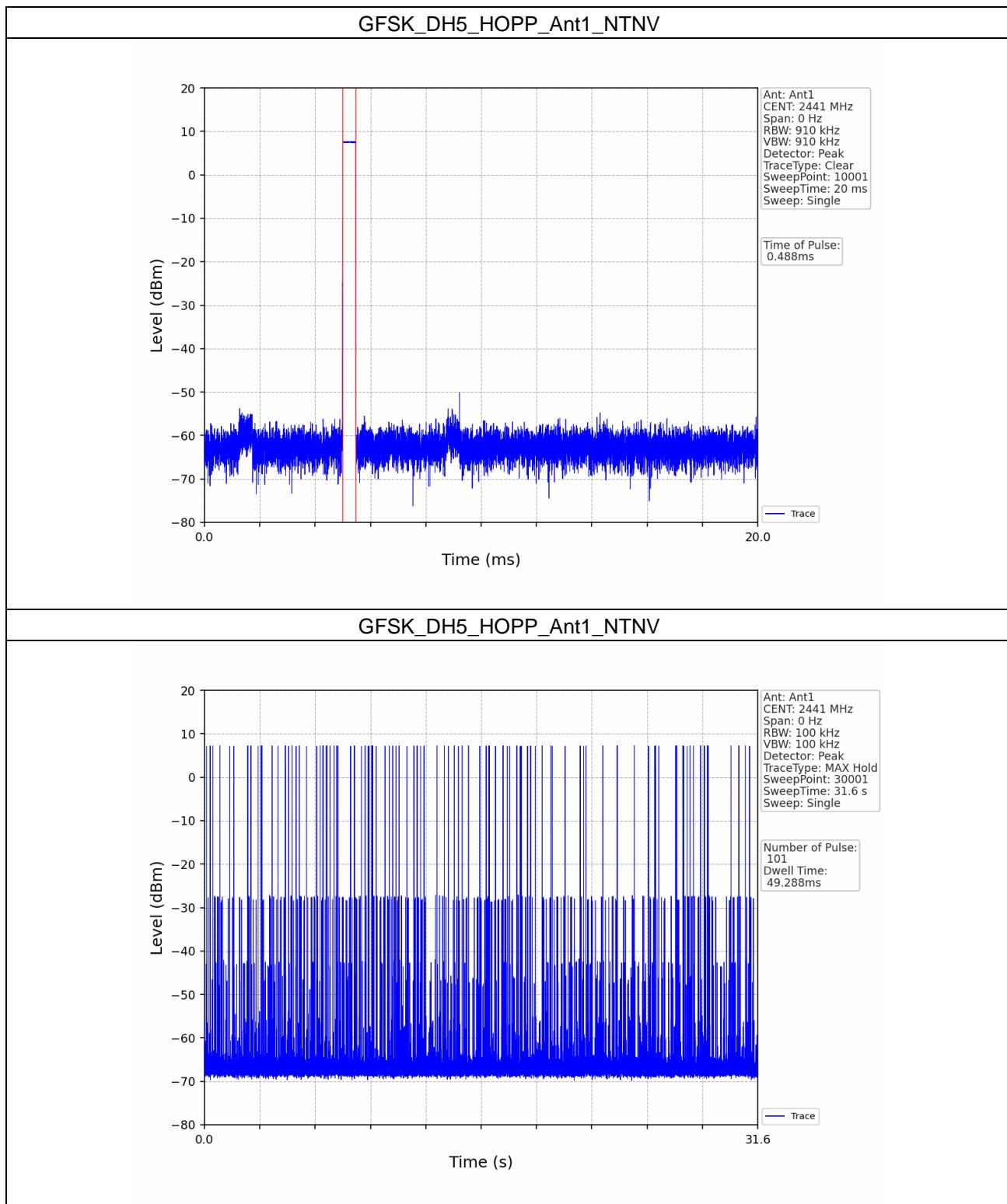
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Report No.: FYCR230100000902

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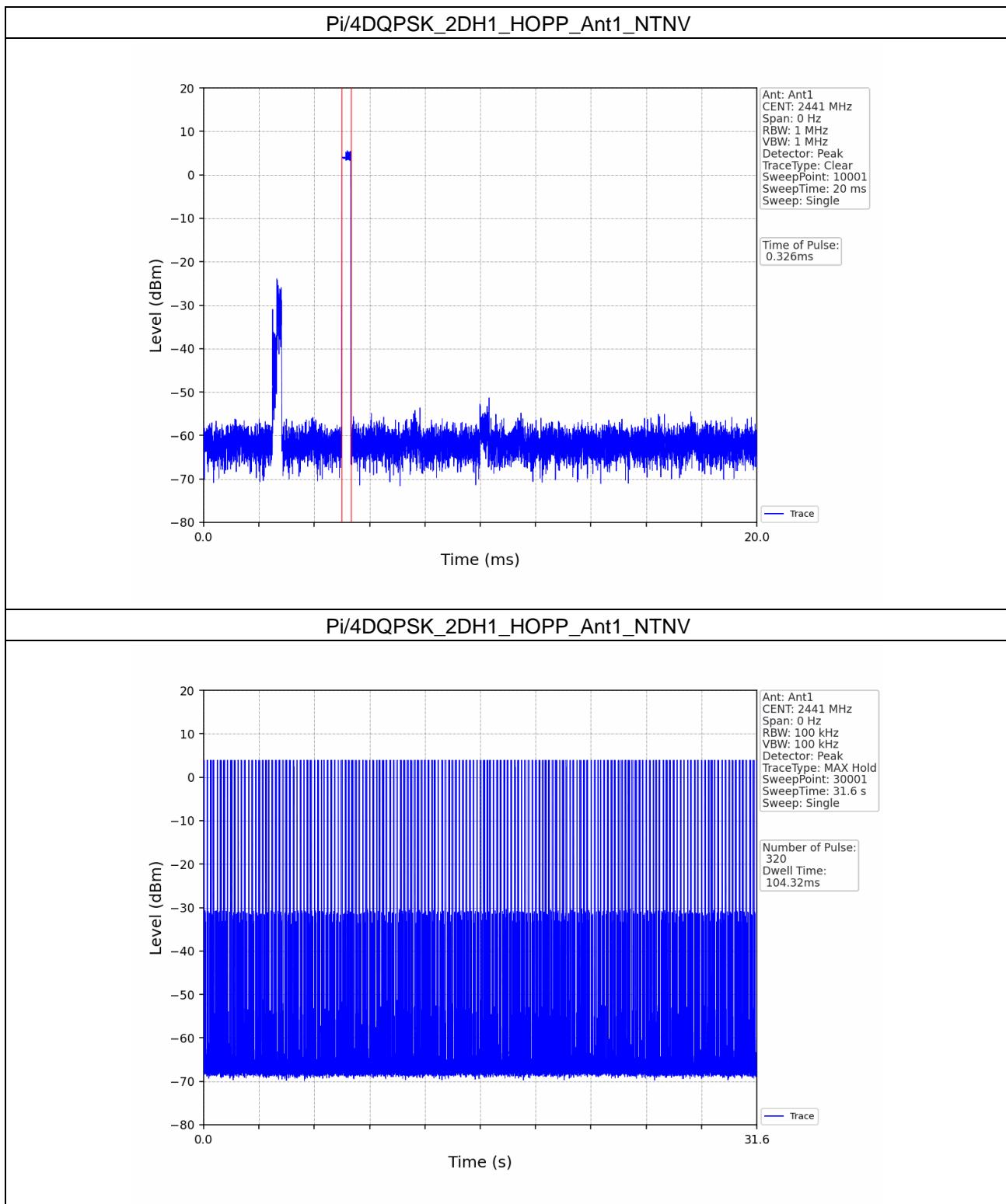
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Report No.: FYCR230100000902

Page: 65 of 88



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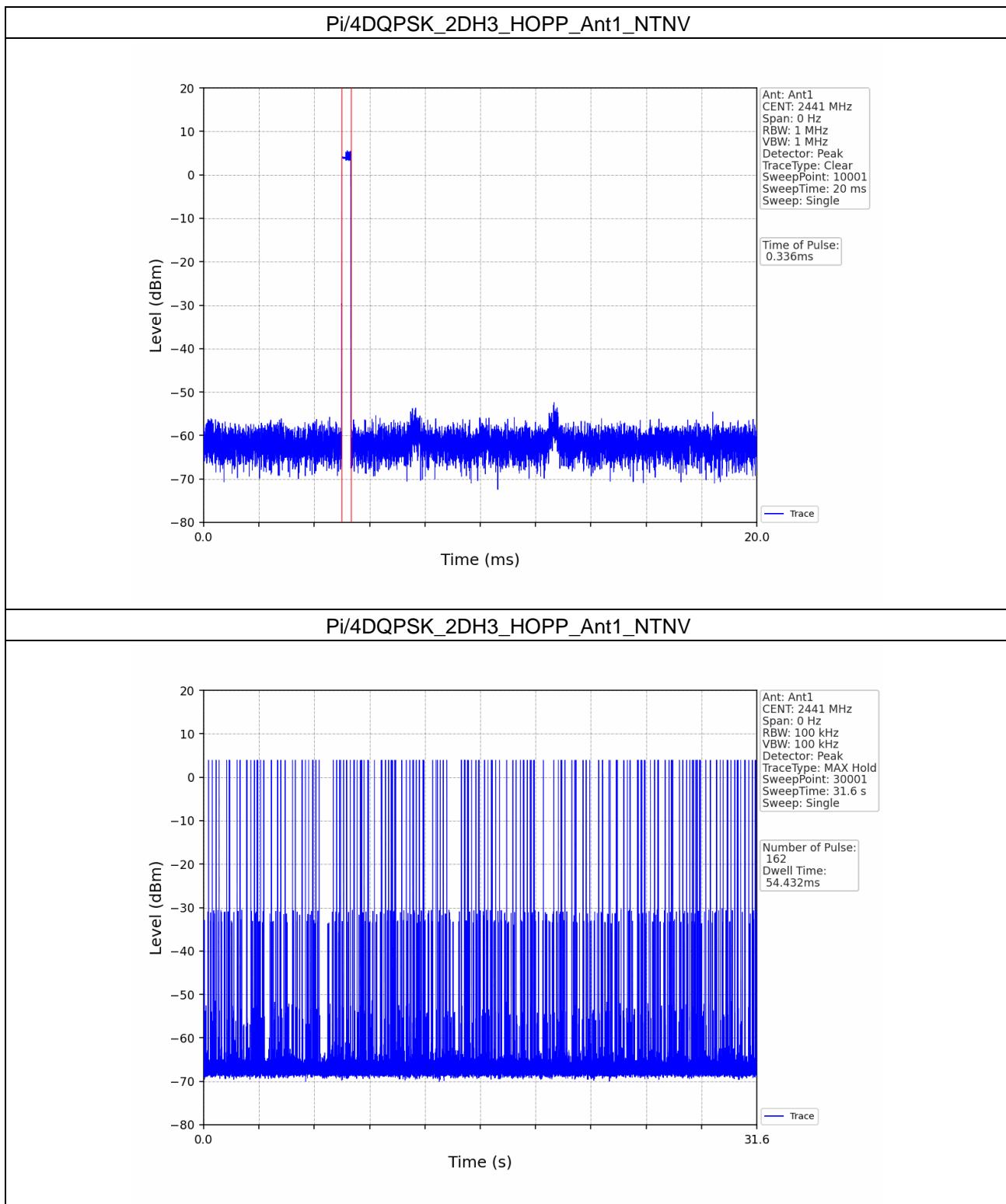
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Report No.: FYCR230100000902

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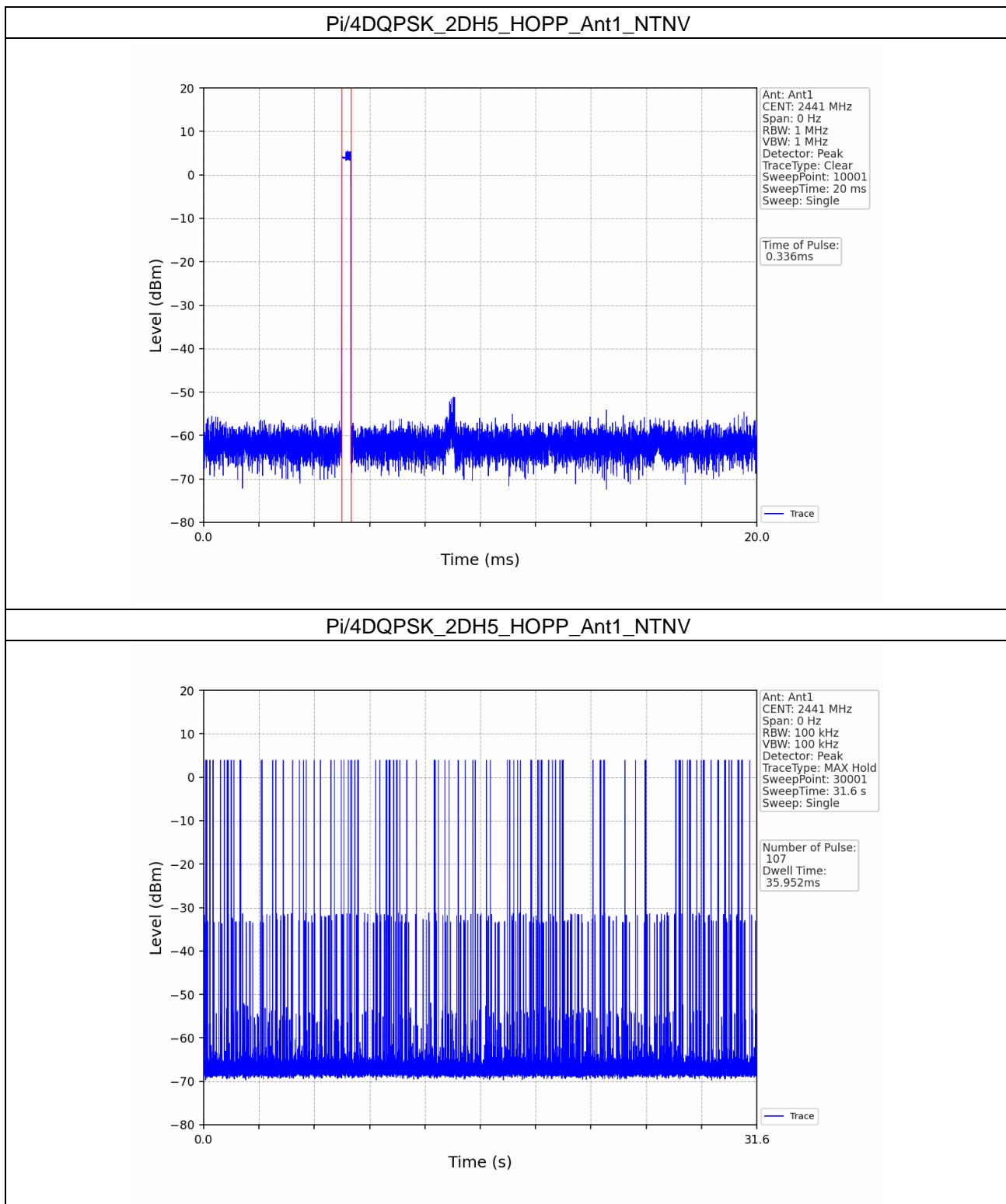
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Report No.: FYCR230100000902

Page: 67 of 88



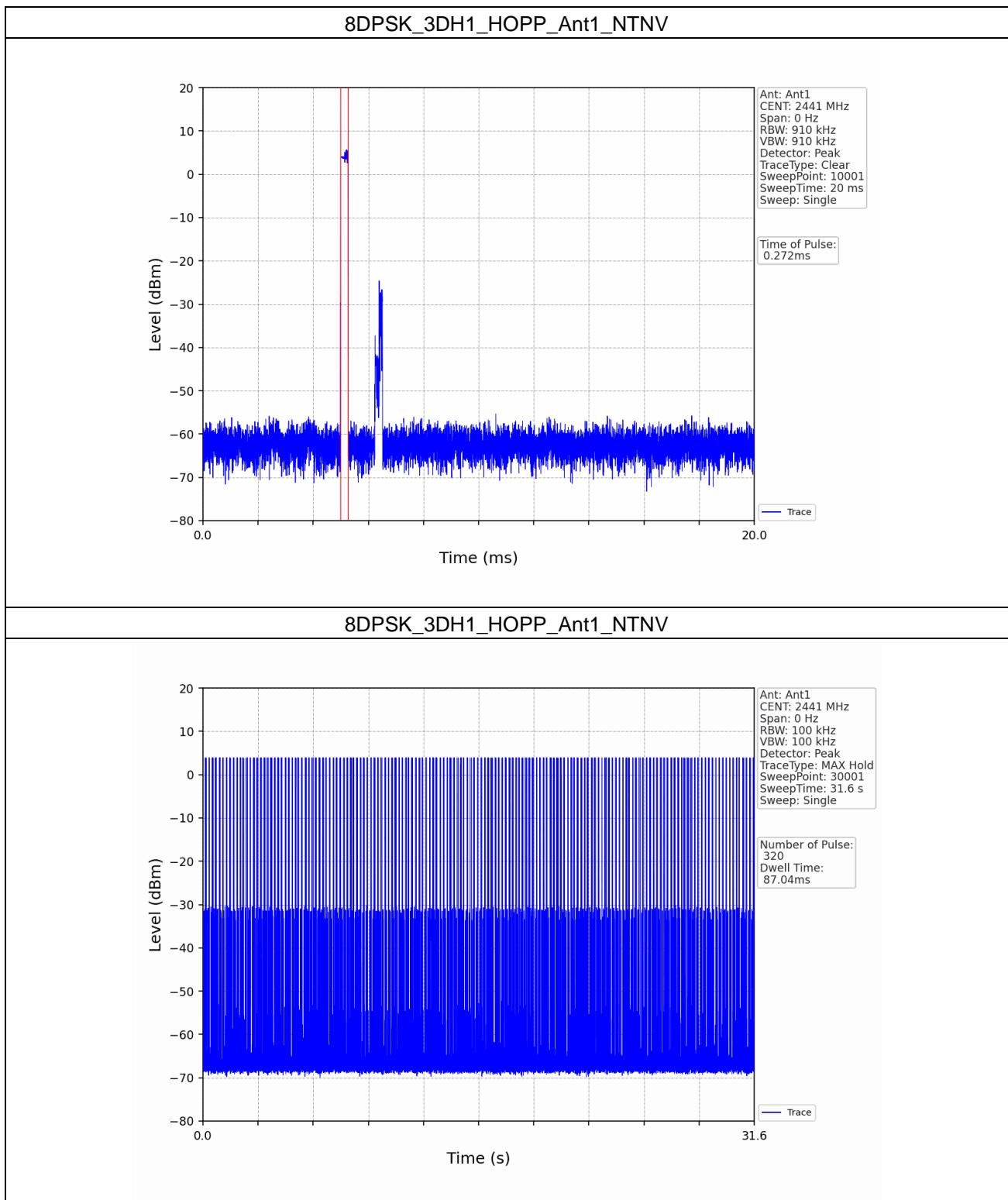
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Report No.: FYCR230100000902

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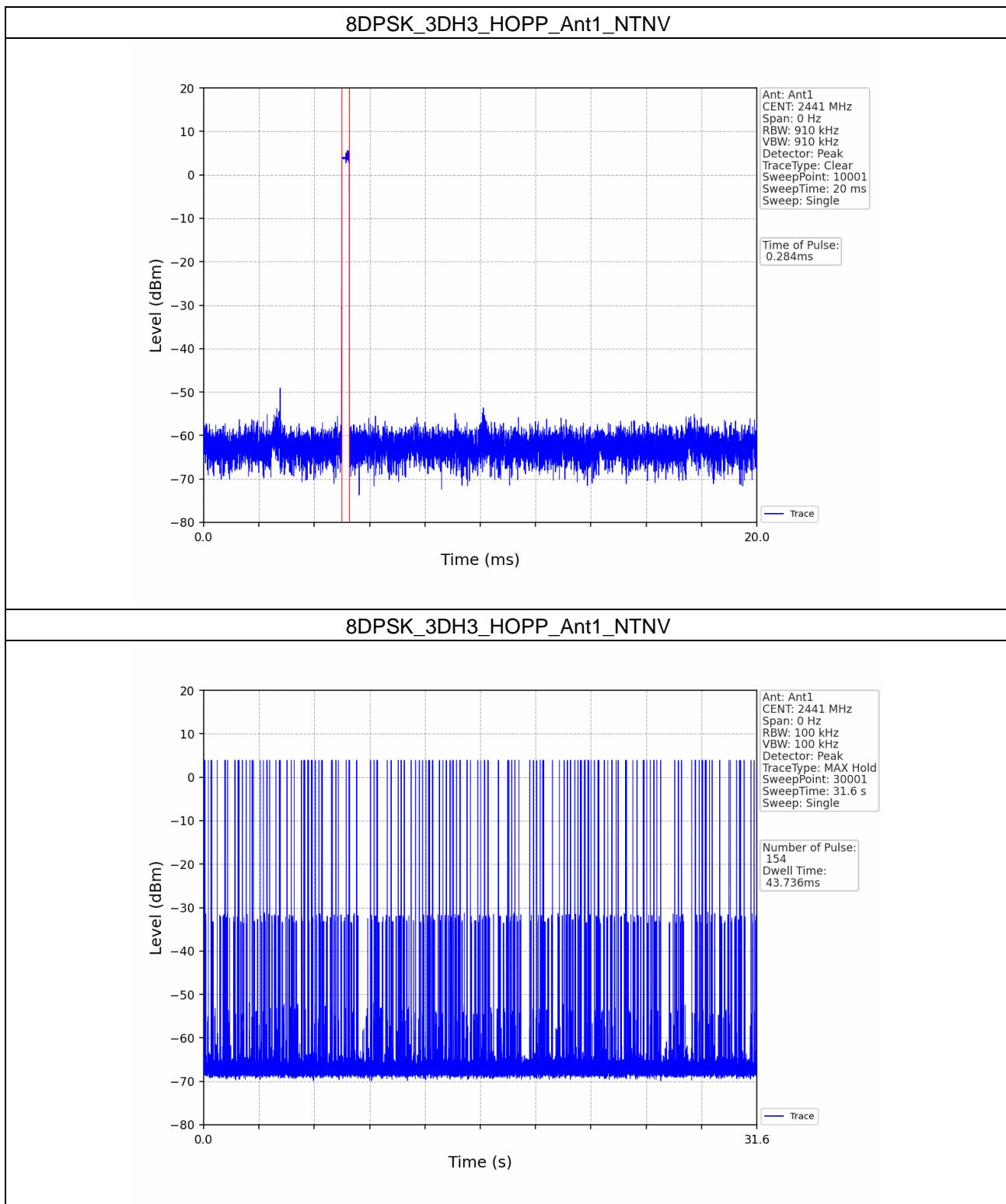
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000902

Page: 69 of 88



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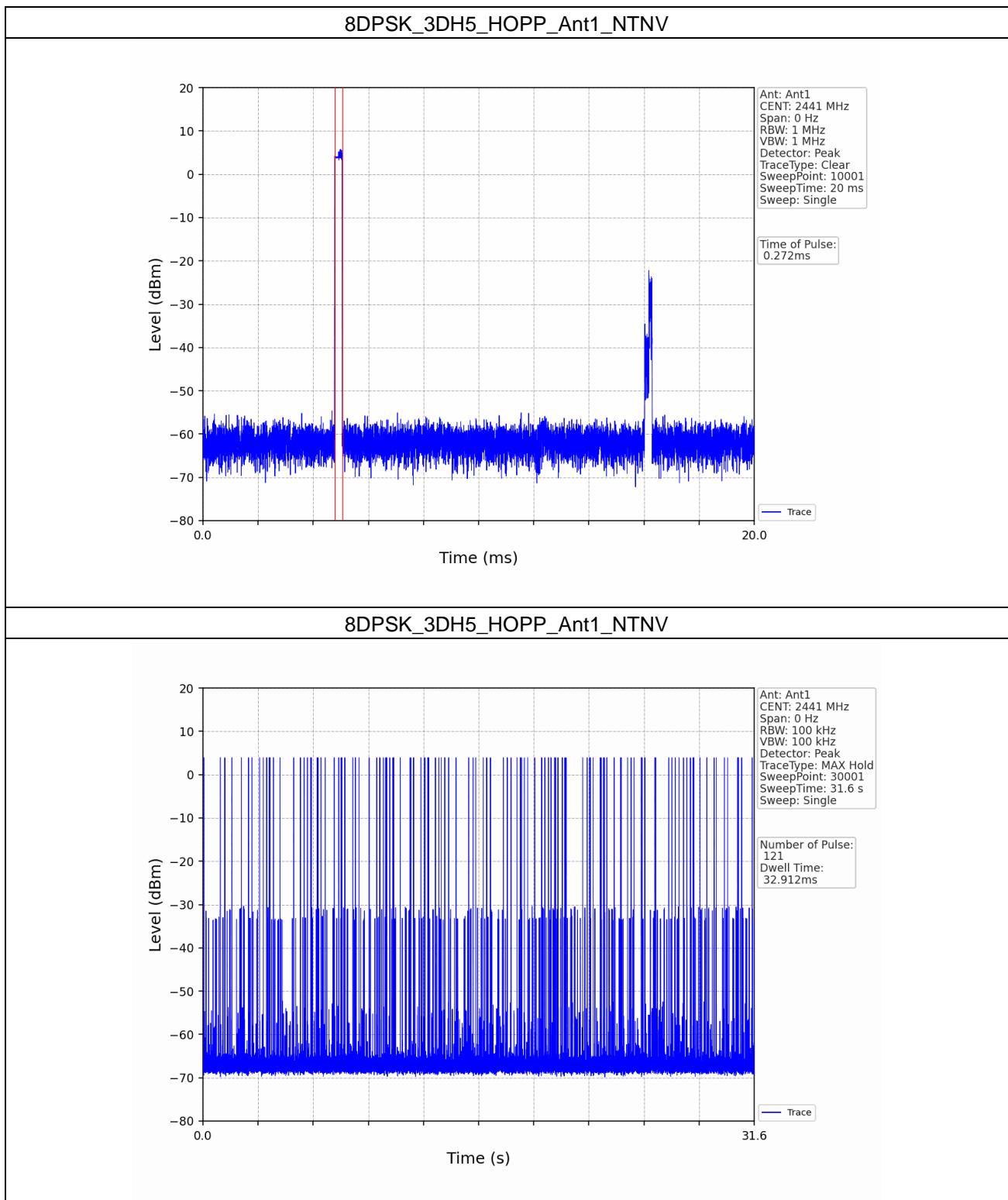
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000902

Page: 70 of 88



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6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Ref

6.1.1 Test Result

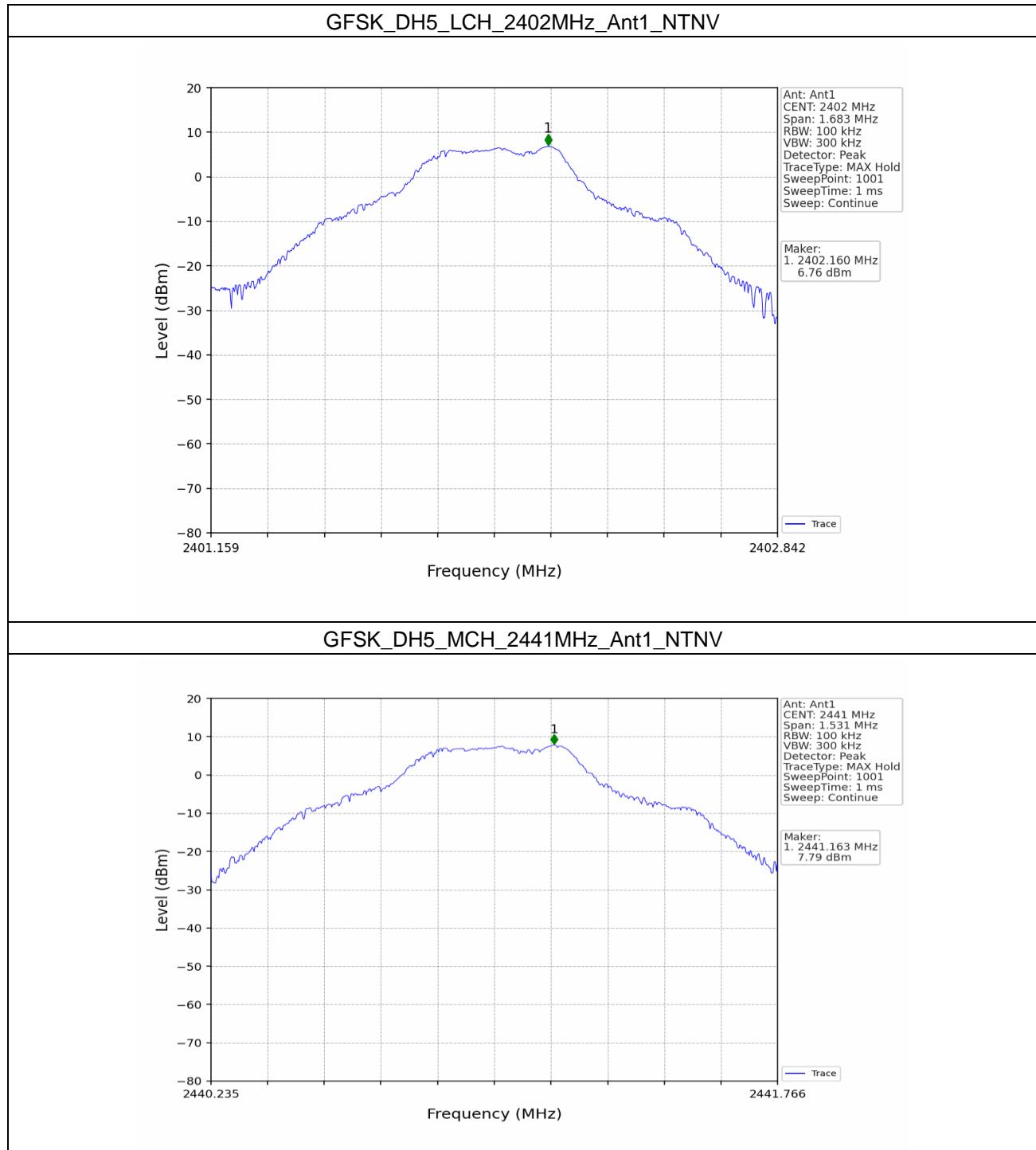
| Mode | TX Type | Frequency (MHz) | Packet Type | ANT | Level of Reference (dBm) |
|-----------|---------|-----------------|-------------|-----|--------------------------|
| GFSK | SISO | 2402 | DH5 | 1 | 6.76 |
| | | 2441 | DH5 | 1 | 7.79 |
| | | 2480 | DH5 | 1 | 7.11 |
| Pi/4DQPSK | SISO | 2402 | 2DH5 | 1 | 3.09 |
| | | 2441 | 2DH5 | 1 | 3.97 |
| | | 2480 | 2DH5 | 1 | 3.74 |
| 8DPSK | SISO | 2402 | 3DH5 | 1 | 3.13 |
| | | 2441 | 3DH5 | 1 | 4.14 |
| | | 2480 | 3DH5 | 1 | 3.78 |

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6.1.2 Test Graph

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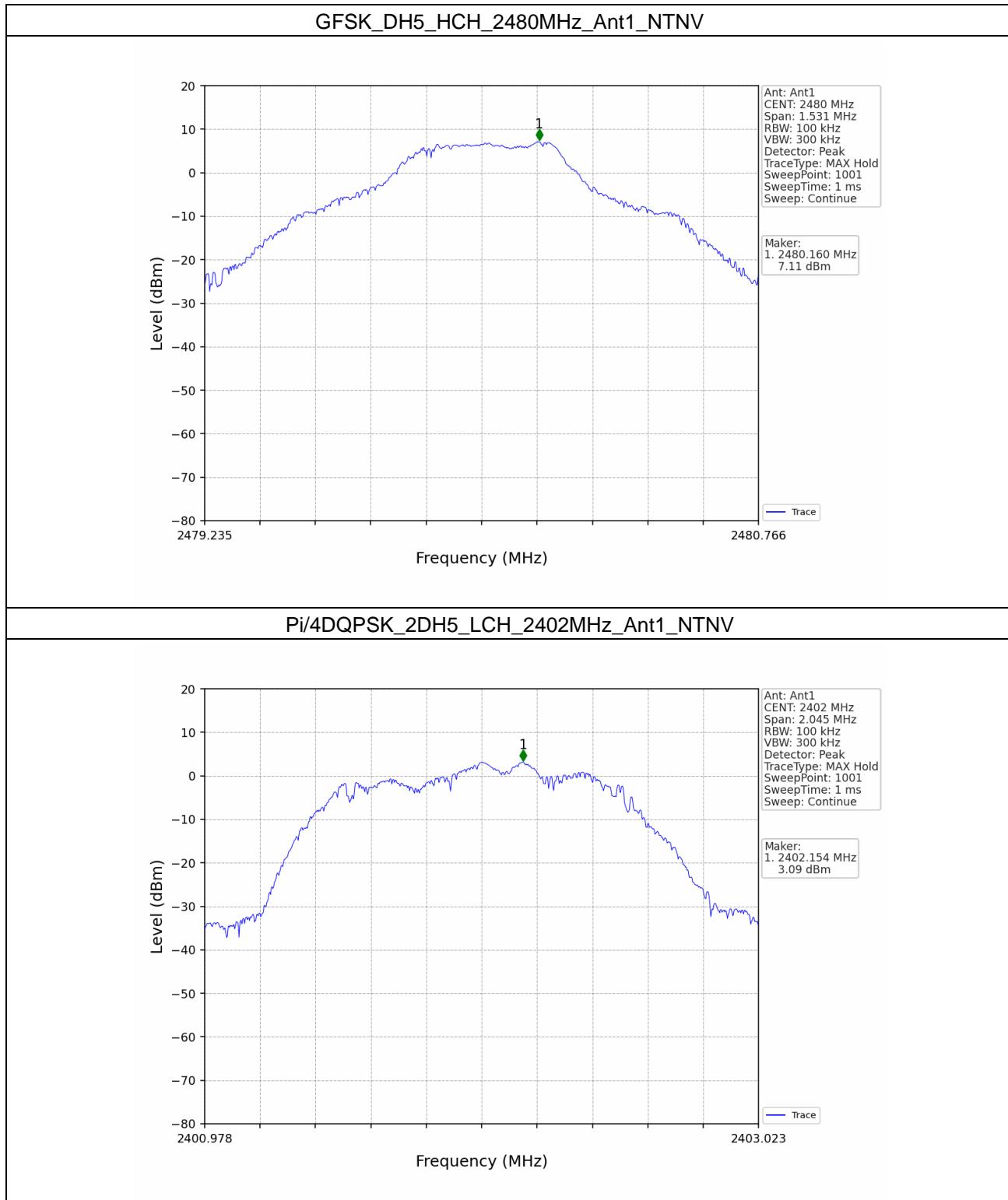
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000902

Page: 73 of 88



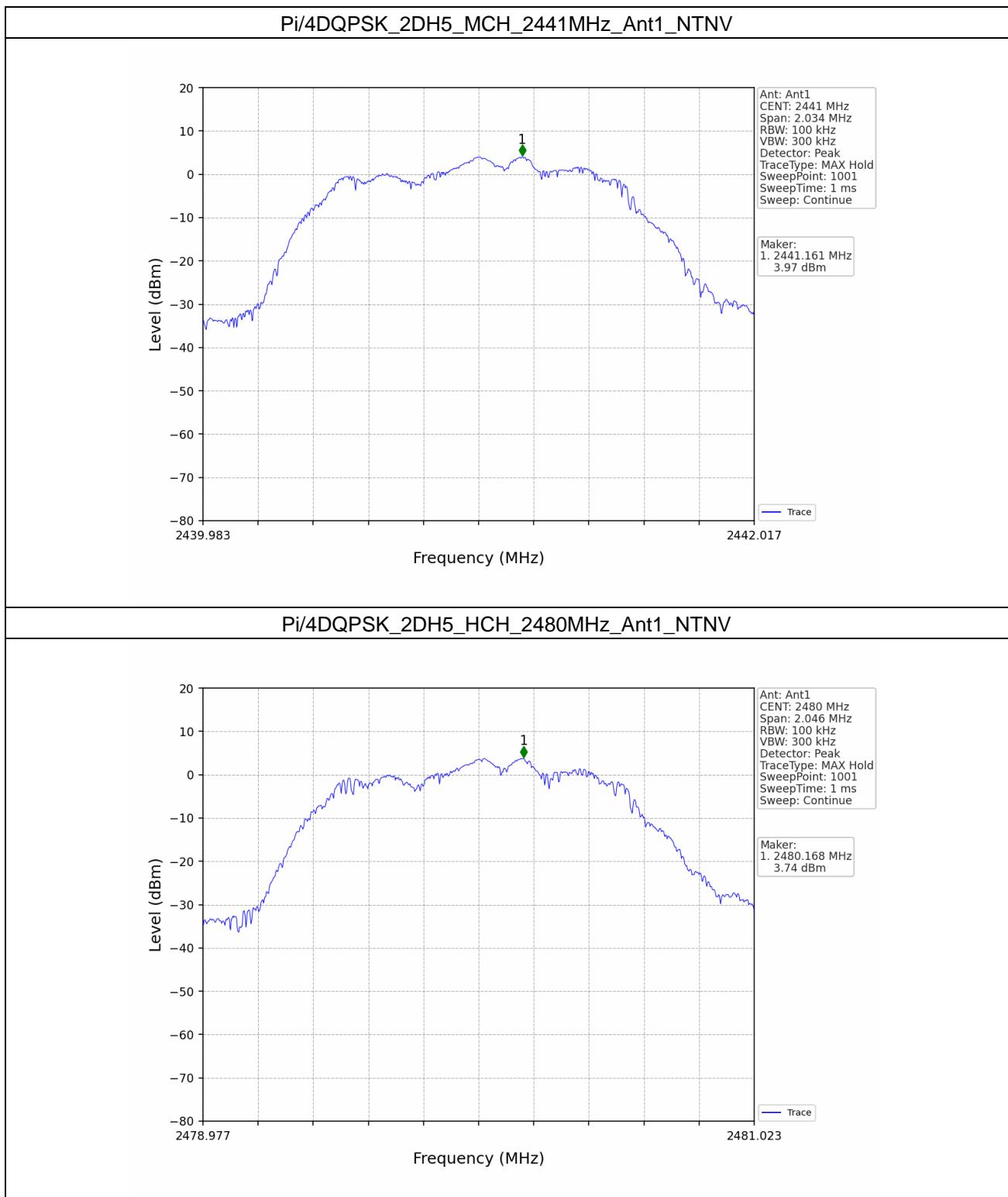
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000902

Page: 74 of 88



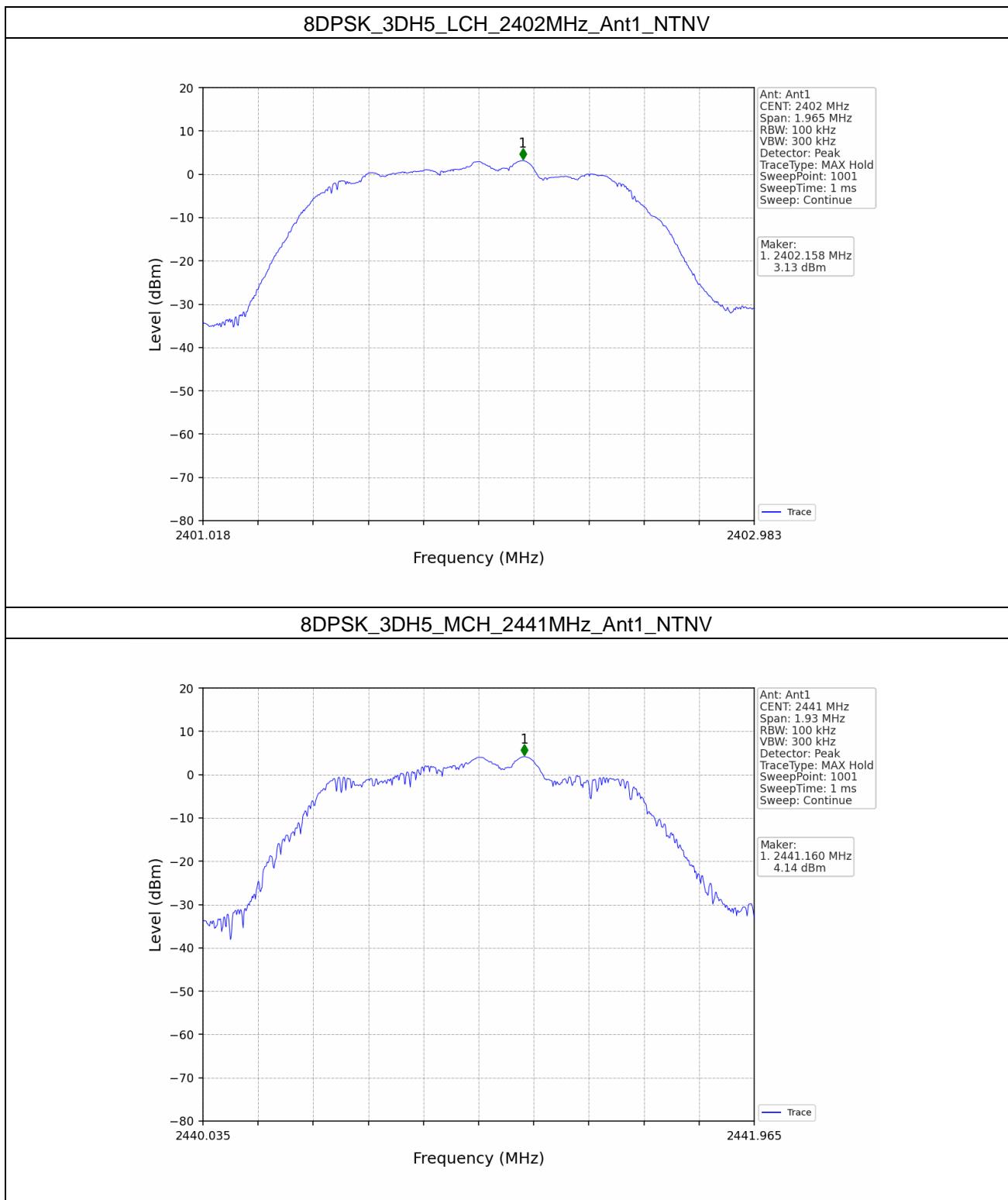
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Report No.: FYCR230100000902

Page: 75 of 88



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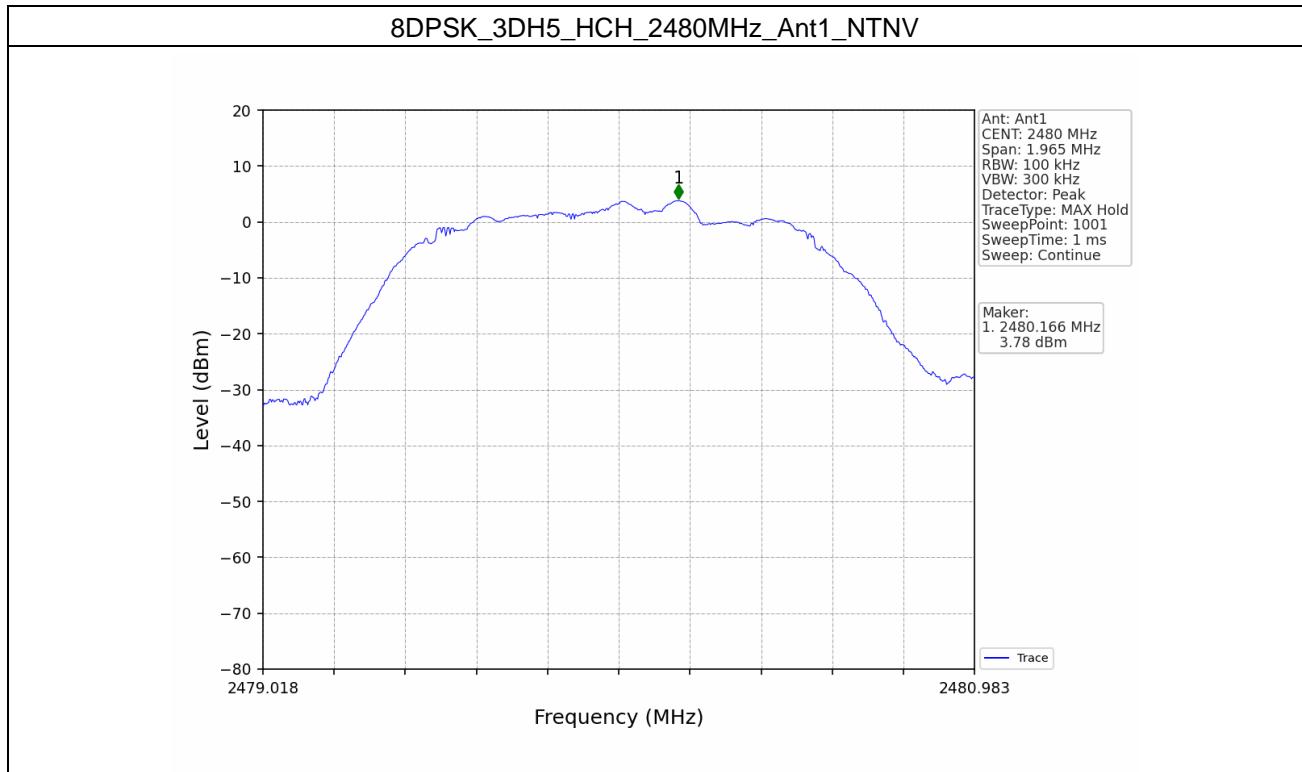
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Page: 76 of 88



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

Report No.: FYCR230100000902

Page: 77 of 88

6.2 CSE**6.2.1 Test Result**

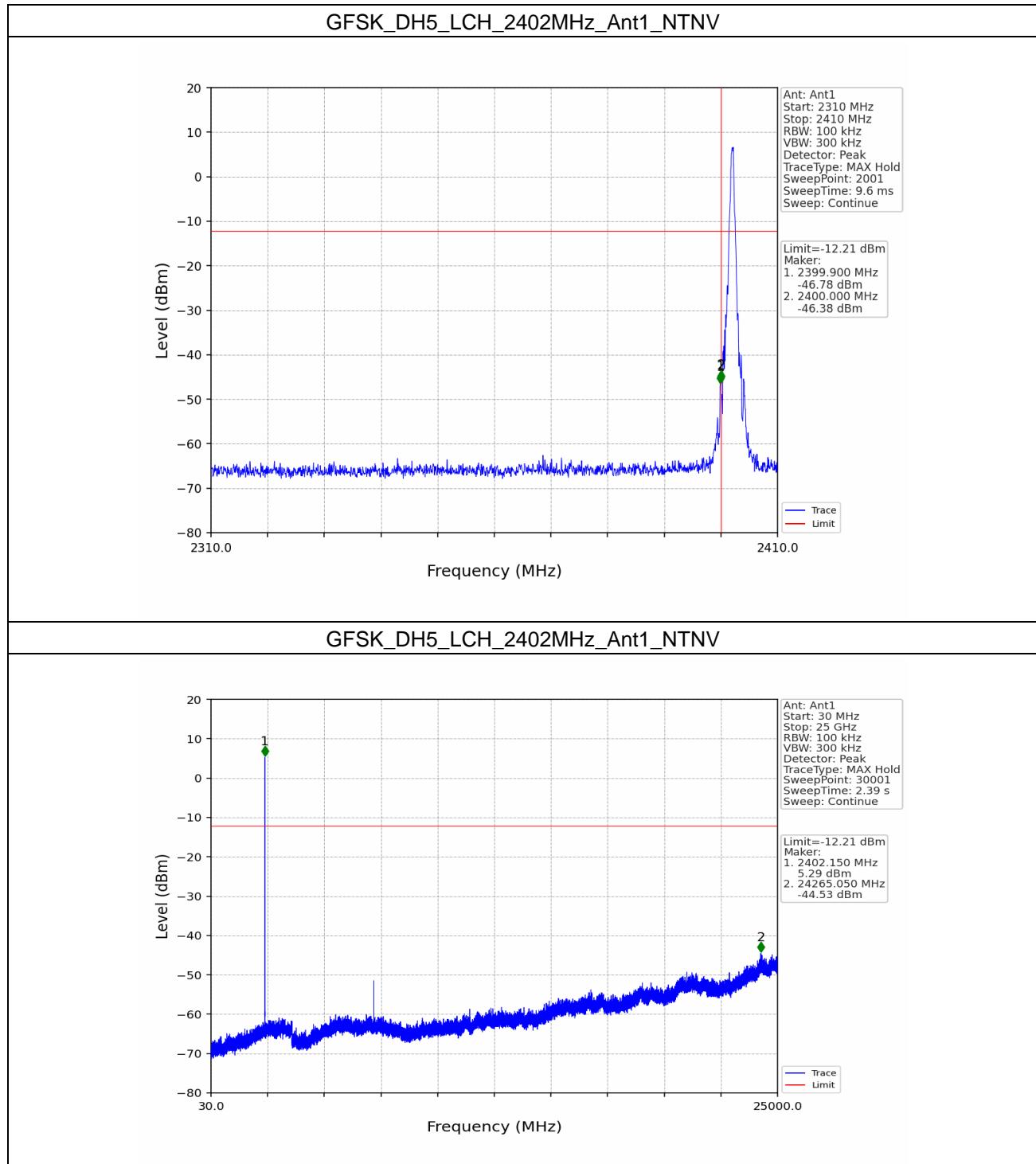
| Mode | TX Type | Frequency (MHz) | Packet Type | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|-----------|---------|-----------------|-------------|-----|--------------------------|-------------|---------|
| GFSK | SISO | 2402 | DH5 | 1 | 7.79 | -12.21 | Pass |
| | | 2441 | DH5 | 1 | 7.79 | -12.21 | Pass |
| | | 2480 | DH5 | 1 | 7.79 | -12.21 | Pass |
| | | HOPP | DH5 | 1 | 7.79 | -12.21 | Pass |
| Pi/4DQPSK | SISO | 2402 | 2DH5 | 1 | 3.97 | -16.03 | Pass |
| | | 2441 | 2DH5 | 1 | 3.97 | -16.03 | Pass |
| | | 2480 | 2DH5 | 1 | 3.97 | -16.03 | Pass |
| | | HOPP | 2DH5 | 1 | 3.97 | -16.03 | Pass |
| 8DPSK | SISO | 2402 | 3DH5 | 1 | 4.14 | -15.86 | Pass |
| | | 2441 | 3DH5 | 1 | 4.14 | -15.86 | Pass |
| | | 2480 | 3DH5 | 1 | 4.14 | -15.86 | Pass |
| | | HOPP | 3DH5 | 1 | 4.14 | -15.86 | Pass |



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6.2.2 Test Graph

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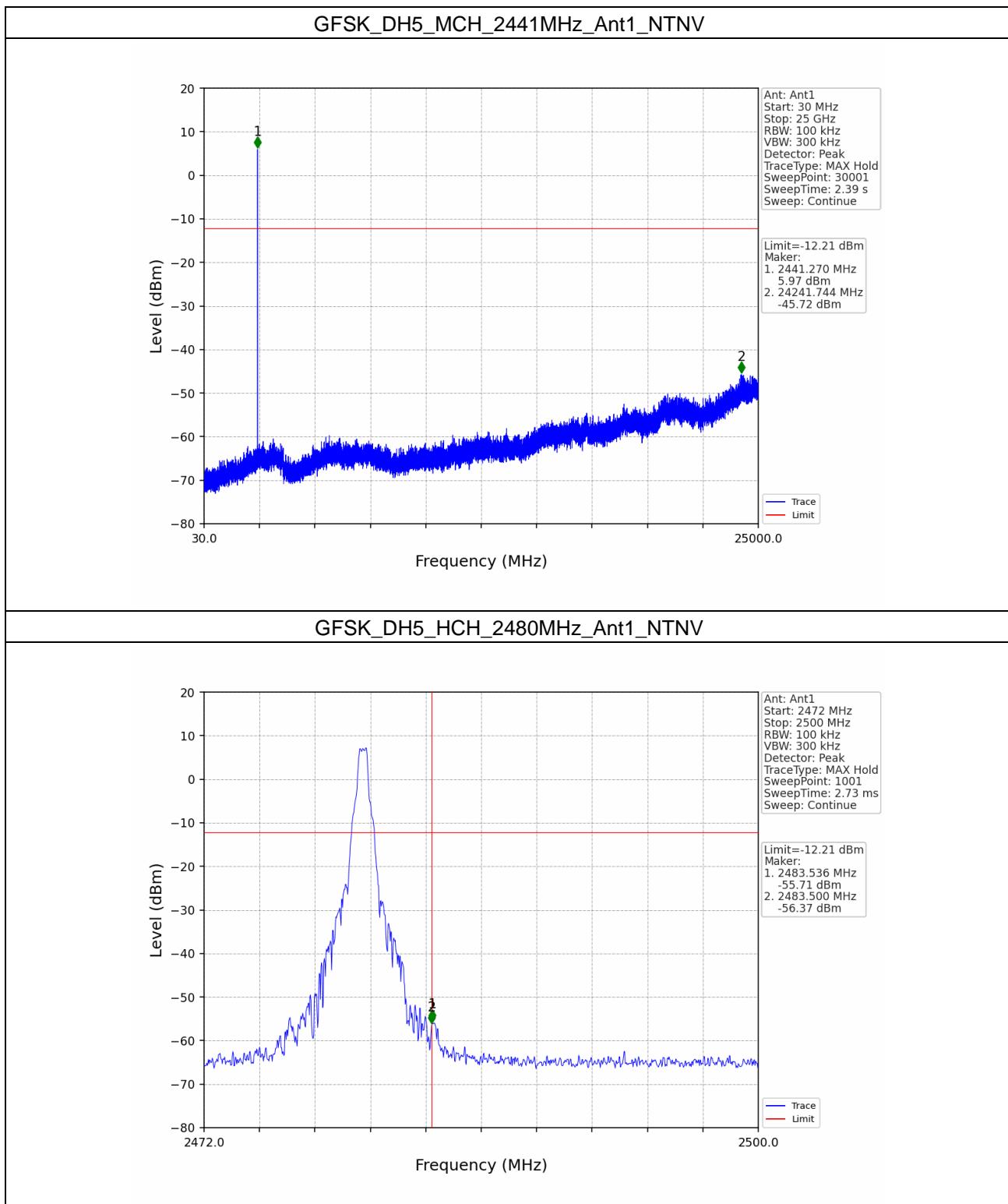
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Report No.: FYCR230100000902

Page: 79 of 88



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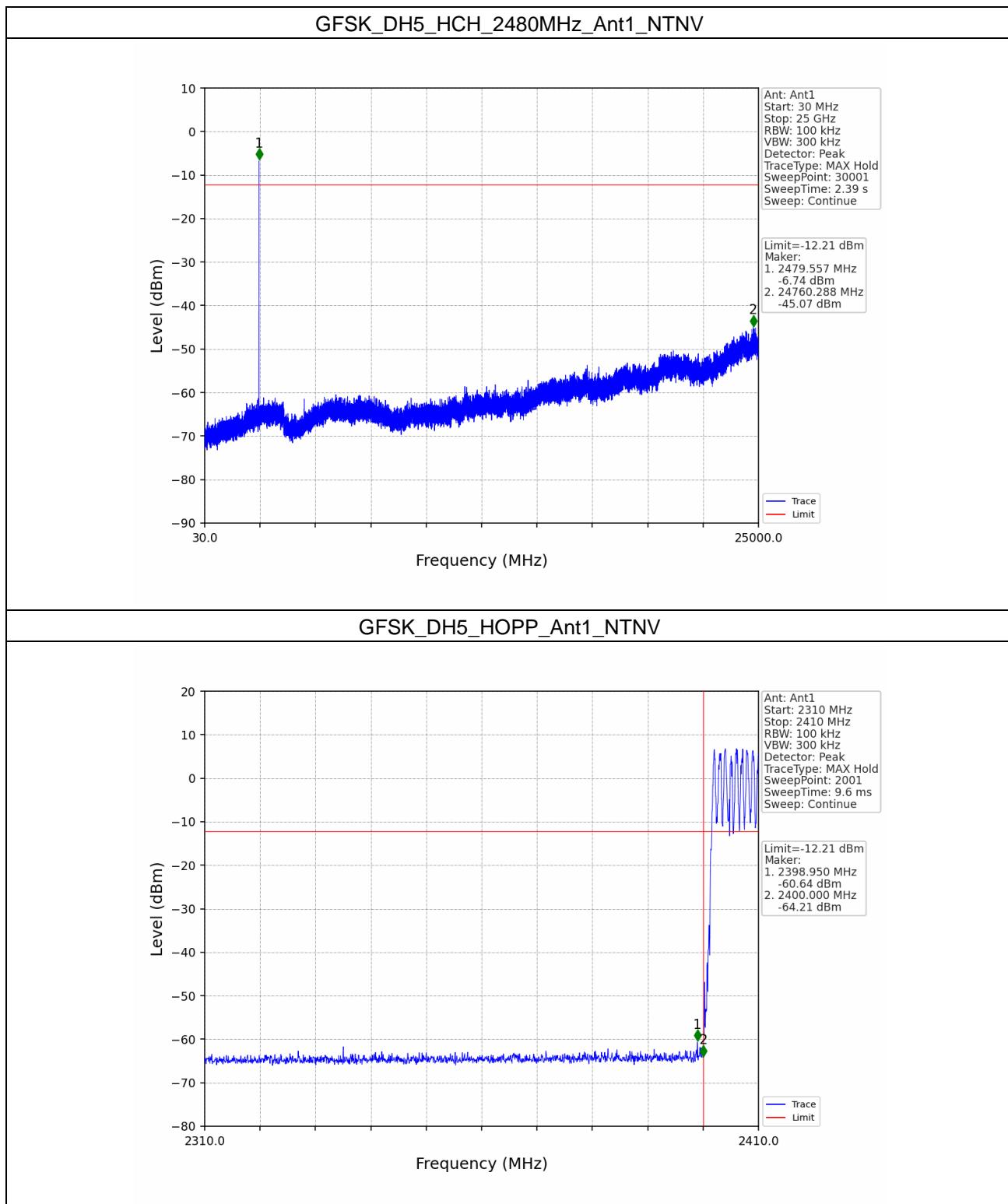
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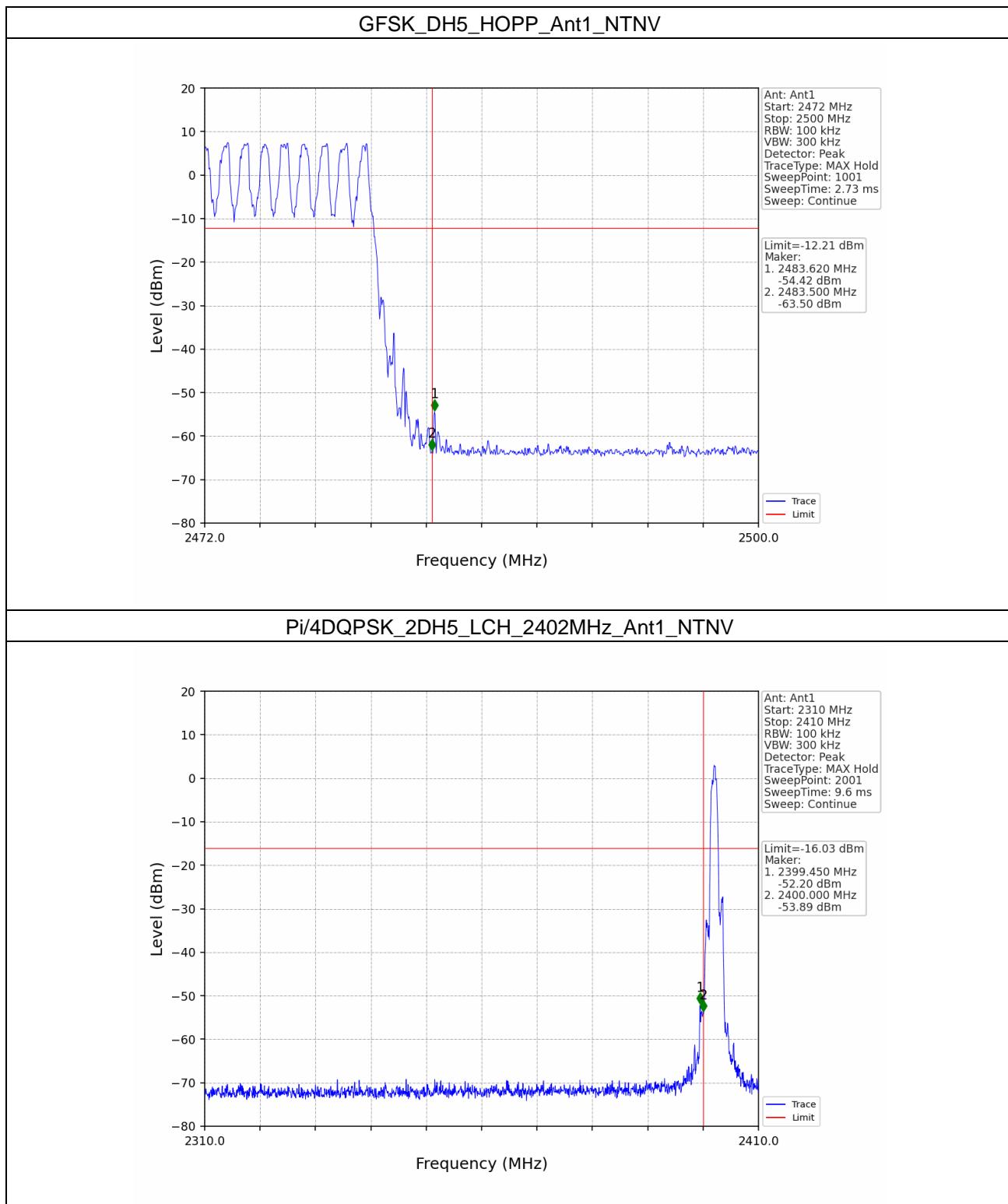
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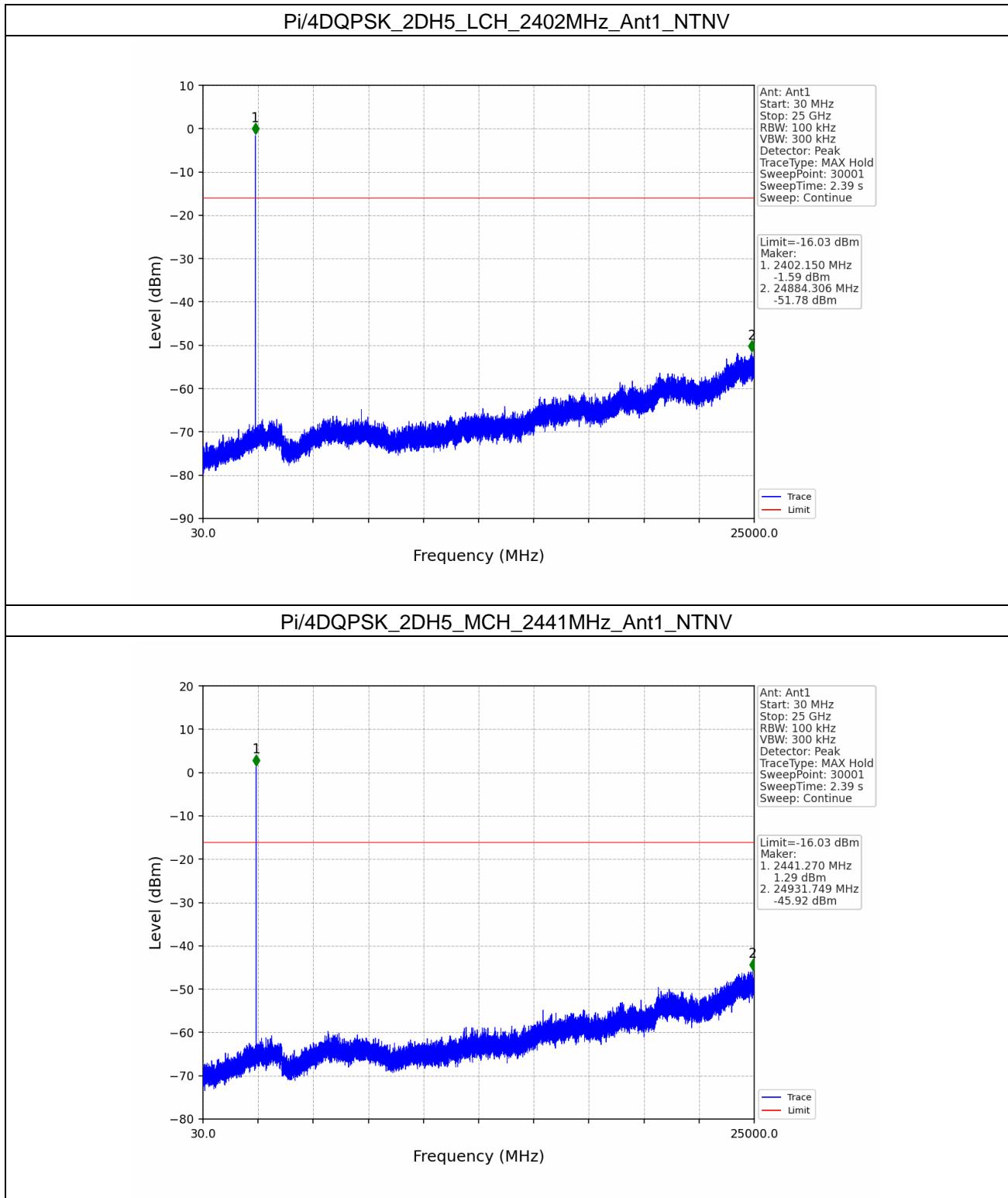
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Page: 82 of 88



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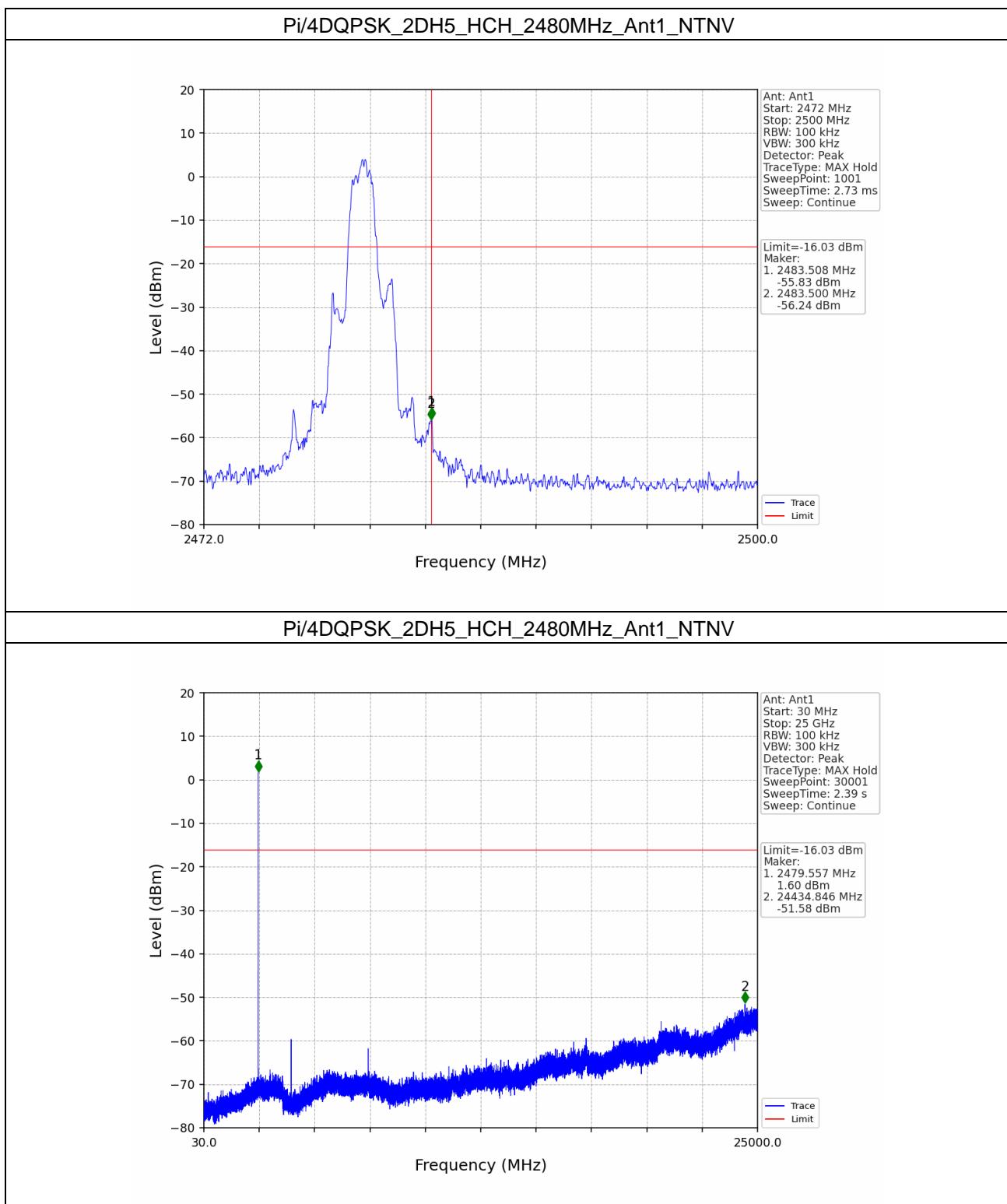
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000902

Page: 83 of 88



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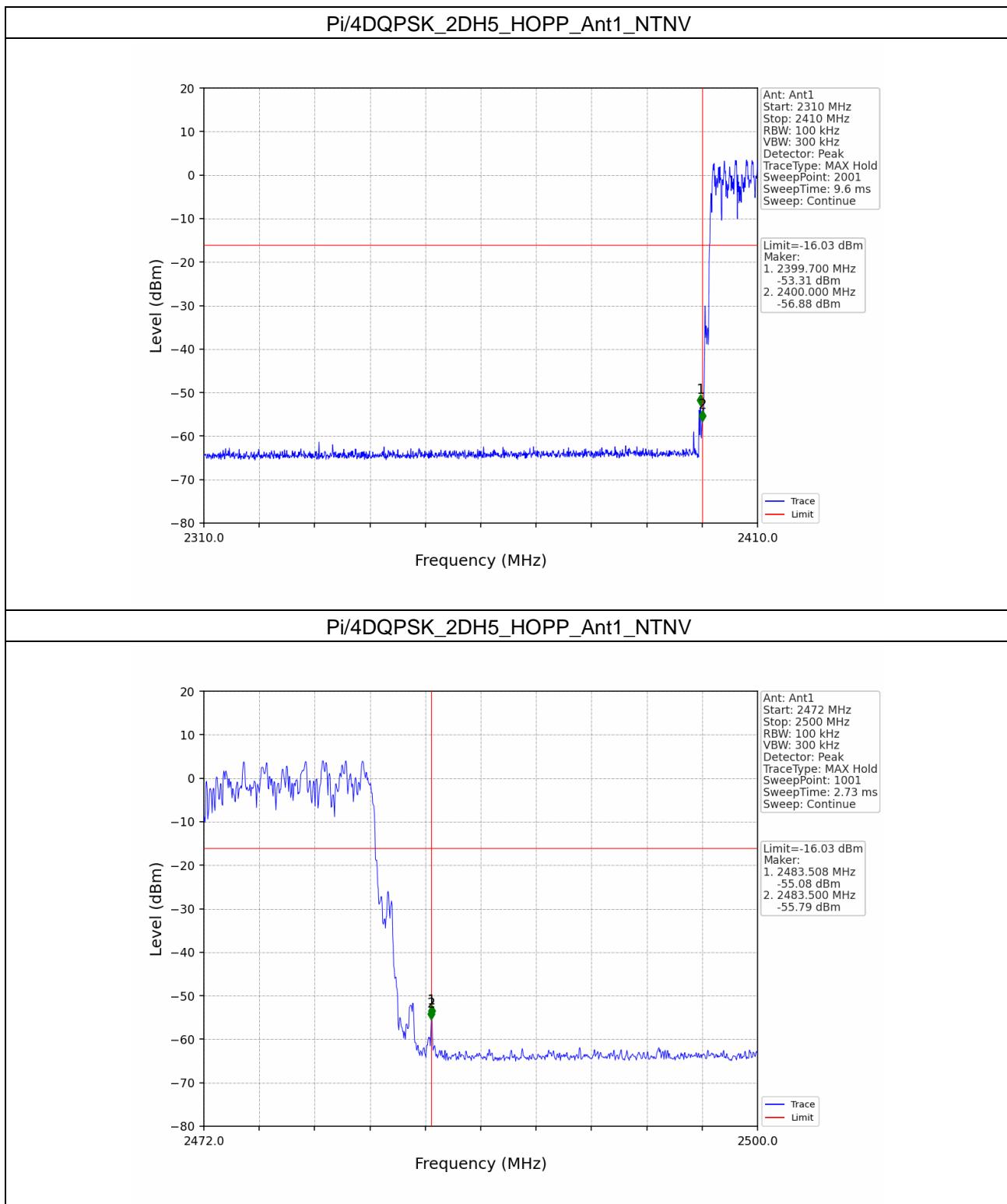
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000902

Page: 84 of 88



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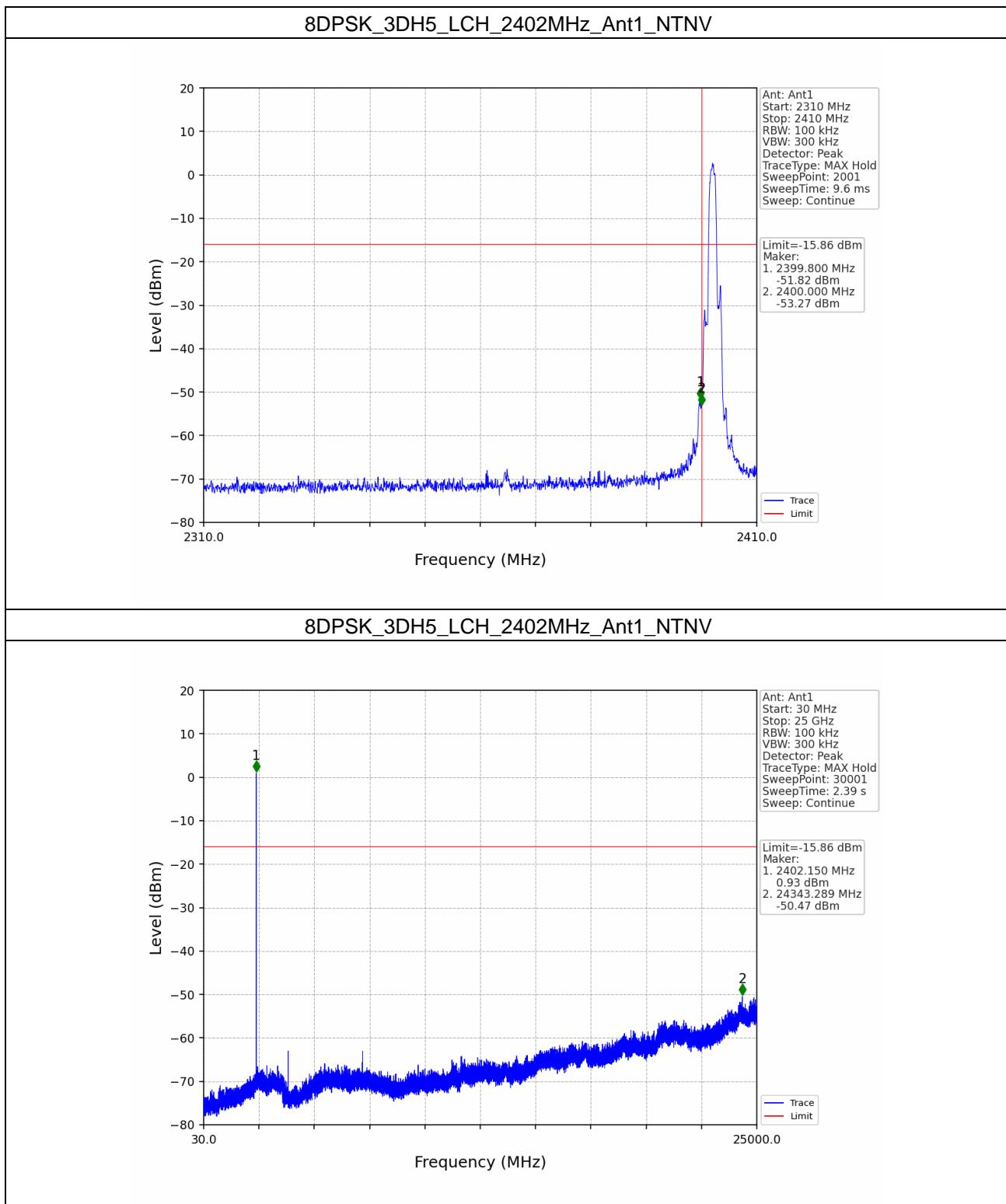
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000902

Page: 85 of 88

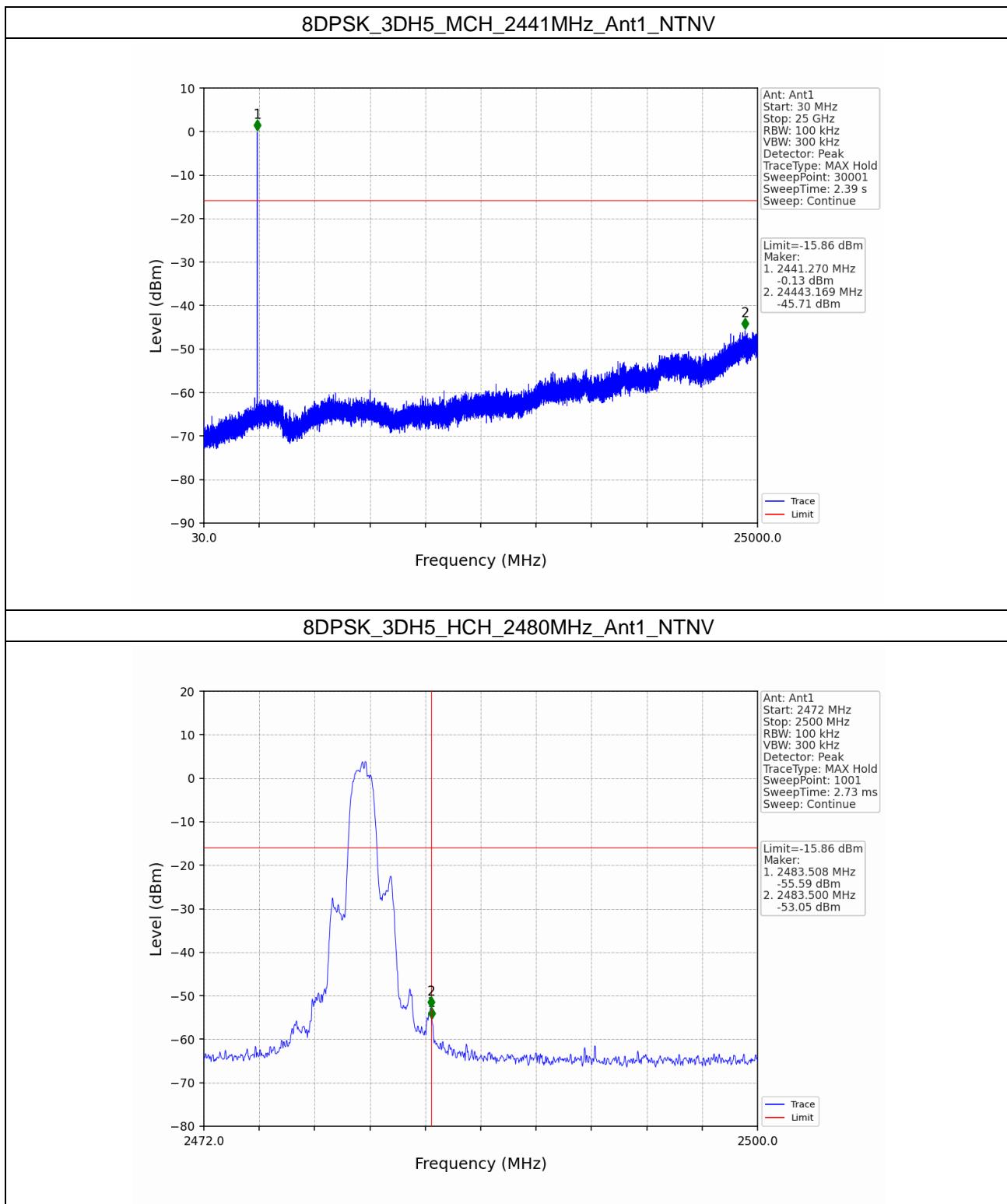


Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR230100000902

Page: 86 of 88



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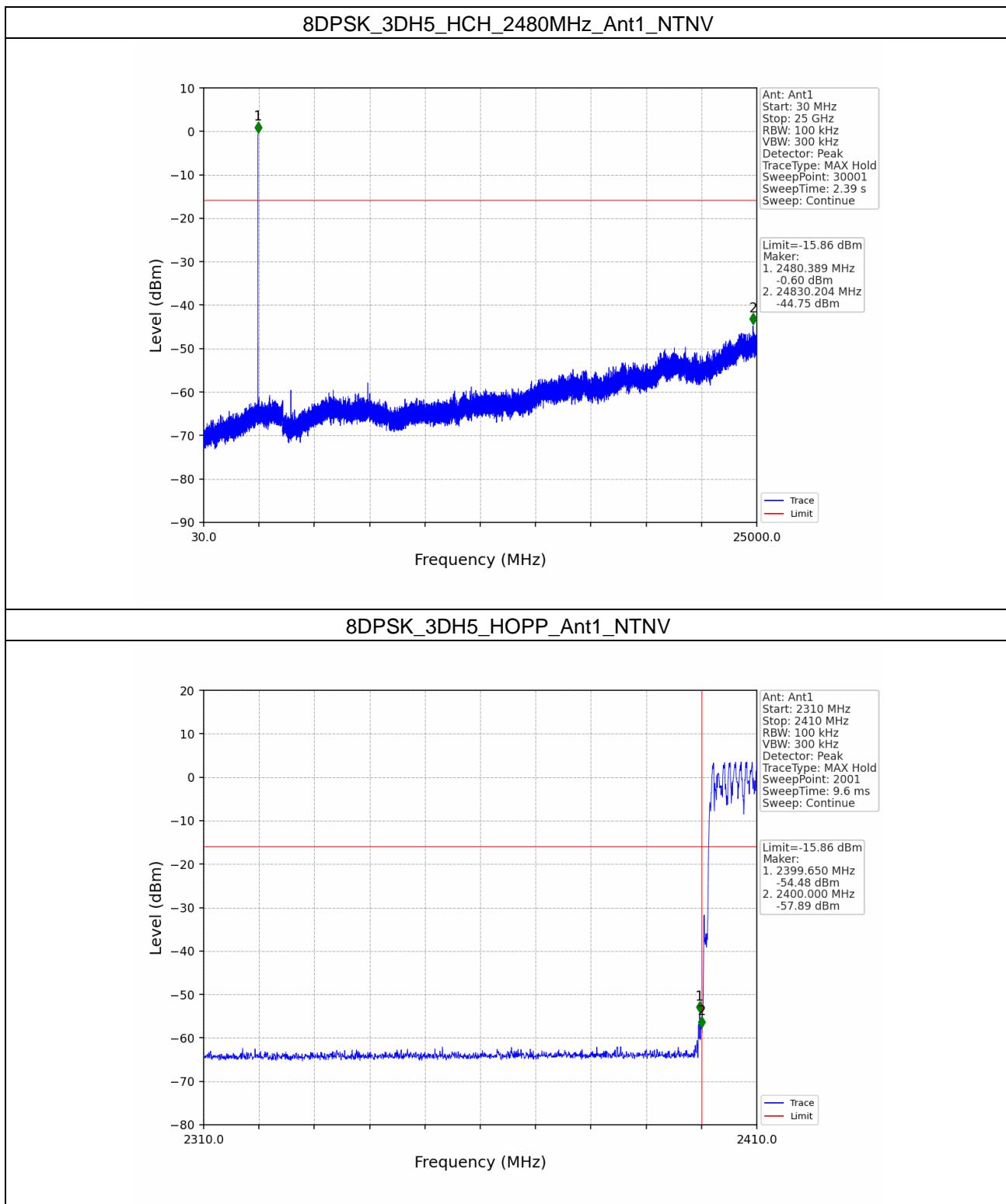
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000902

Page: 87 of 88



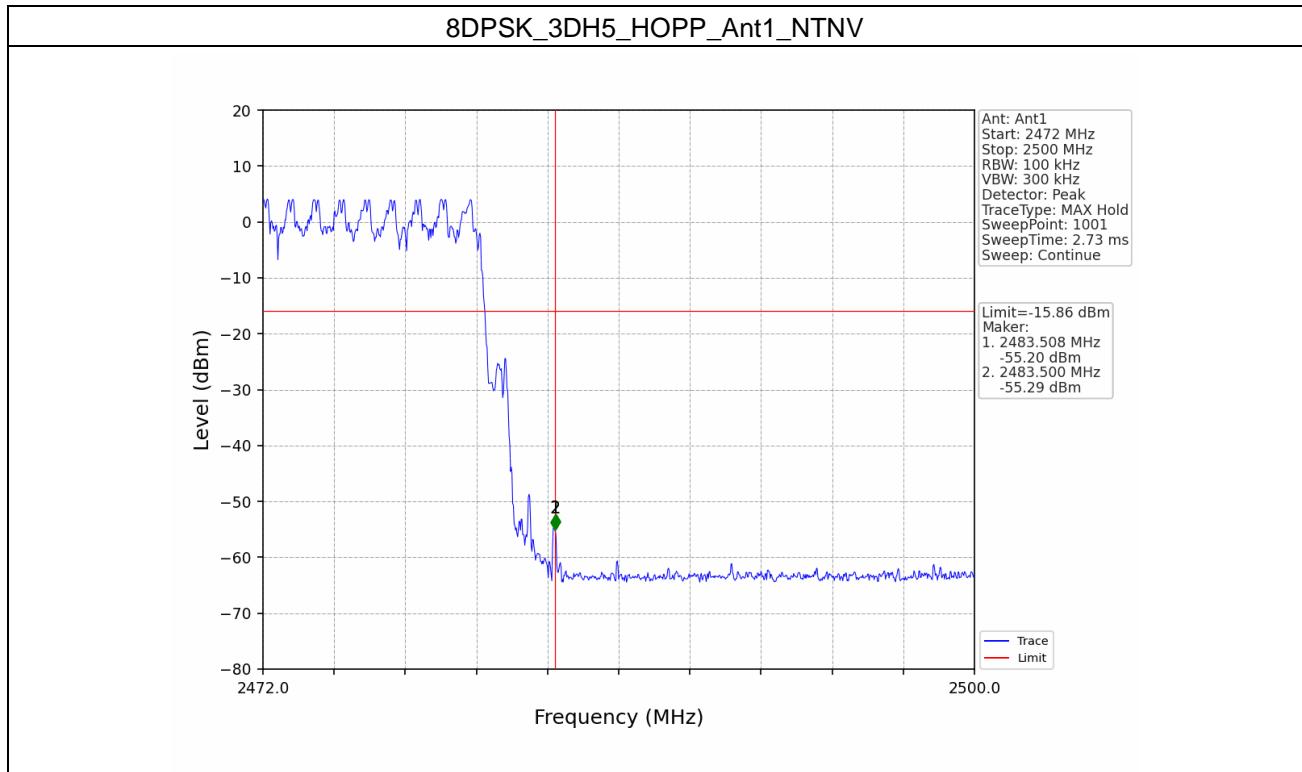
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000902

Page: 88 of 88

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