

TEST REPORT

Application No.: GZCR2112021536AT
Applicant: Harman International Industries, Inc.
Address of Applicant: 8500 Balboa Boulevard, Northridge, California, 91329, United States
Manufacturer: Harman International Industries, Inc.
Address of Manufacturer: 8500 Balboa Boulevard, Northridge, California, 91329, United States
Factory:
 1. Cosonic Electroacoustic Technology Co., Ltd
 2. COSONIC VIETNAM COMPANY LIMITED
 3. Jiangxi Cosonic Electroacoustic Technologies Co., Ltd.
Address of Factory:
 1. No.151, Shipai Section, Dongyuan Avenue, Shipai Town, Dongguan City, Guangdong Province, P.R.China
 2. Lot C5-1, Ba Thien II Industrial Park, Thien Ke Commune, Binh Xuyen District, Vinh Phuc Province, Vietnam
 3. Shangli Industrial Park, Jinshan Town, Shangli County, Pingxiang, Jiangxi, P.R. China

Equipment Under Test (EUT):

EUT Name: BLUETOOTH HEADSET
Model No.: REFLECT AERO
Trade Mark: JBL
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2021-12-13
Date of Test: 2021-12-17 to 2021-12-21
Date of Issue: 2021-12-23

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

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

Kobe Jian
EMC Laboratory Manager



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| Revision Record | | | | |
|-----------------|---------|------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2021-12-23 | | Original |
| | | | | |
| | | | | |

| | | | |
|--------------------------------|--|--|--|
| Authorized for issue by | | | |
| Tested By | |  <hr/> Curry Wu/Project Engineer | |
| Reviewed By | |  <hr/> Ricky Liu/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 |
| 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 6.4,6.5,6.6 | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass |
| Radiated Spurious Emissions (Above 1GHz) | | ANSI C63.10 (2013) Section 6.4,6.5,6.6 | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass |

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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4 General Information

4.1 Details of E.U.T.

| | |
|-----------------------------|---|
| Power supply: | Left earbud: Lithium-Ion Polymer Battery 3.85V 65mAh (Charge by charging case) Right earbud: Lithium Polymer Battery 3.85V 65mAh (Charge by charging case) Charging case: Lithium-Ion Polymer Battery 3.85V 400mAh (Charged by type-C port) |
| Cable(s): | Type-c cable: 25.5cm unshielded |
| Operation Frequency: | 2402MHz to 2480MHz |
| Modulation Type: | GFSK, pi/4DQPSK, 8DPSK |
| Number of Channels: | 79 |
| Channel Spacing: | 1MHz |
| Spectrum Spread Technology: | Frequency Hopping Spread Spectrum(FHSS) |
| Antenna Type: | Integral Antenna |
| Antenna Gain: | Left earbud: -0.24dBi Right earbuds: -1.61dBi |
| Function: | Bluetooth Function |

4.2 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|-------------|--------------|-----------|-------------------|
| Adapter | SAMSUNG | EP-TA200 | REF. No.SEA05K04D |



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4.3 Measurement Uncertainty

| Test Item | Measurement Uncertainty |
|--|---|
| Conducted Emissions at AC Power Line (150kHz-30MHz) | ±3.12dB |
| Conducted Peak Output Power | ± 0.75dB |
| 20dB Bandwidth | ± 3% |
| Carrier Frequencies Separation | ± 7.25 x 10-8 |
| Hopping Channel Number | ± 7.25 x 10-8 |
| Dwell Time | ± 0.37% |
| Conducted Band Edges Measurement | ± 0.75dB |
| Conducted Spurious Emissions | ± 0.75dB |
| Radiated Emissions which fall in the restricted bands | ±5.08dB (1GHz-6GHz);±5.14dB(above 6GHz) |
| Radiated Spurious Emissions (Below 1GHz) | ±5.06dB (3m); ±4.46dB (10m) |
| Radiated Spurious Emissions (Above 1GHz) | ±5.08dB (1GHz-6GHz);±5.14dB(above 6GHz) |
| <p>Remark:</p> <p>The U_{lab} (lab Uncertainty) is less than U_{cisprr} (CISPR Uncertainty), so the test results</p> <ul style="list-style-type: none"> – 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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198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,
Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.

4.5 Test Facility

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

- **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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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 | ChangZhou ZhongYu | 8m x 3m x 3.8m | EMC0306 | N/A | N/A |
| Two-Line V-Network | Rohde & Schwarz | ENV216 | EMC0118 | 2021-01-08 | 2022-01-06 |
| Two-Line V-Network-GZ | Rohde & Schwarz | ENV216 | EMC2135 | 2021-09-24 | 2022-09-23 |
| Coaxial Cable | HangTianXing | 2m | EMC0107 | 2020-09-09 | 2022-09-08 |
| Test Software E3c | Audix | Ver. 5.4.1221b | GZE100-62 | N/A | N/A |
| EMI Test Receiver(9kHz-3.6GHz) | Rohde & Schwarz | ESR4 | EMC2221 | 2021-06-01 | 2022-05-31 |

| Conducted Peak Output Power | | | | | |
|-----------------------------|----------------------|-------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| Power Meter (U2021XA_Ch2) | Agilent Technologies | U2021XA_Ch2 | SEM009-02 | 2021-05-19 | 2022-05-18 |
| 6dB Attenuator | HP | 8491A | EMC2062 | 2020-04-15 | 2022-04-14 |
| MI CABLE | SGS-EMC | 0.8M | EMC2136 | 2021-11-01 | 2023-11-01 |
| Test Software | TST | V2.0 | GZE100-78 | N/A | N/A |

| 20dB Bandwidth | | | | | |
|---------------------------------|----------------------|----------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| EXA Signal Analyzer(10Hz-44GHz) | Agilent Technologies | N9010A | EMC2138 | 2021-09-16 | 2022-09-15 |
| 6dB Attenuator | HP | 8491A | EMC2062 | 2020-04-15 | 2022-04-14 |
| MI CABLE | SGS-EMC | 0.8M | EMC2136 | 2021-11-01 | 2023-11-01 |
| Test Software | TST | V2.0 | GZE100-78 | N/A | N/A |

| Carrier Frequencies Separation | | | | | |
|---------------------------------|----------------------|----------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| EXA Signal Analyzer(10Hz-44GHz) | Agilent Technologies | N9010A | EMC2138 | 2021-09-16 | 2022-09-15 |
| 6dB Attenuator | HP | 8491A | EMC2062 | 2020-04-15 | 2022-04-14 |
| MI CABLE | SGS-EMC | 0.8M | EMC2136 | 2021-11-01 | 2023-11-01 |
| Test Software | TST | V2.0 | GZE100-78 | N/A | N/A |

| Hopping Channel Number | | | | | |
|---------------------------------|----------------------|----------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| EXA Signal Analyzer(10Hz-44GHz) | Agilent Technologies | N9010A | EMC2138 | 2021-09-16 | 2022-09-15 |
| 6dB Attenuator | HP | 8491A | EMC2062 | 2020-04-15 | 2022-04-14 |



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 Guangzhou Branch Testing & Calibration Laboratory 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

| | | | | | |
|---------------|---------|------|-----------|------------|------------|
| MI CABLE | SGS-EMC | 0.8M | EMC2136 | 2021-11-01 | 2023-11-01 |
| Test Software | TST | V2.0 | GZE100-78 | N/A | N/A |

Dwell Time

| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
|---------------------------------|----------------------|----------|--------------|------------|--------------|
| EXA Signal Analyzer(10Hz-44GHz) | Agilent Technologies | N9010A | EMC2138 | 2021-09-16 | 2022-09-15 |
| 6dB Attenuator | HP | 8491A | EMC2062 | 2020-04-15 | 2022-04-14 |
| MI CABLE | SGS-EMC | 0.8M | EMC2136 | 2021-11-01 | 2023-11-01 |
| Test Software | TST | V2.0 | GZE100-78 | N/A | N/A |

Conducted Band Edges Measurement

| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
|---------------------------------|----------------------|----------|--------------|------------|--------------|
| EXA Signal Analyzer(10Hz-44GHz) | Agilent Technologies | N9010A | EMC2138 | 2021-09-16 | 2022-09-15 |
| 6dB Attenuator | HP | 8491A | EMC2062 | 2020-04-15 | 2022-04-14 |
| MI CABLE | SGS-EMC | 0.8M | EMC2136 | 2021-11-01 | 2023-11-01 |
| Test Software | TST | V2.0 | GZE100-78 | N/A | N/A |

Conducted Spurious Emissions

| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
|---------------------------------|----------------------|----------|--------------|------------|--------------|
| EXA Signal Analyzer(10Hz-44GHz) | Agilent Technologies | N9010A | EMC2138 | 2021-09-16 | 2022-09-15 |
| 6dB Attenuator | HP | 8491A | EMC2062 | 2020-04-15 | 2022-04-14 |
| MI CABLE | SGS-EMC | 0.8M | EMC2136 | 2021-11-01 | 2023-11-01 |
| Test Software | TST | V2.0 | GZE100-78 | N/A | N/A |

Radiated Emissions which fall in the restricted bands

| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
|---------------------------------|-----------------------------|--------------|--------------|------------|--------------|
| EMI Test Receiver(20Hz-26.5GHz) | Rohde & Schwarz | ESIB26 | EMC0522 | 2021-01-08 | 2022-01-07 |
| Chamber cable(Above 1GHz) | Scoflex | KMKM-8.0m | EMC0545 | 2020-09-09 | 2022-09-08 |
| Horn Antenna(1GHz-18GHz) | SCHWARZBECK MESS-ELEKTRONIK | BBHA 9120D | EMC2026 | 2019-09-25 | 2022-09-24 |
| 1GHz-26.5 GHz Pre-Amplifier | Agilent | 8449B | EMC0521 | 2021-01-08 | 2022-01-07 |
| 2.4GHz Filter | Micro-Tronics | BRM 50702 | EMC2069 | 2021-01-08 | 2022-01-07 |
| 966 Anechoic Chamber | C.R.T | 9m x 6m x 6m | EMC2142 | 2020-12-20 | 2023-12-19 |
| MXE EMI Receiver(10Hz-8.4GHz) | Keysight | N9038A | EMC2139 | 2021-11-01 | 2022-10-31 |



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| | | | | | |
|---|-------------|---------------|-----------|------------|------------|
| EXA Signal Analyzer(10Hz-44GHz) | Keysight | N9010A | EMC2138 | 2021-09-16 | 2022-09-15 |
| Test Software E3 | Audix | Ver.6.120110a | GZE100-61 | N/A | N/A |
| Horn Antenna(14-40GHz) | SCHWARZBECK | BBHA 9170 | EMC2041 | 2020-06-28 | 2023-06-27 |
| Microwave Broadband Preamplifier (18-40GHz) | SCHWARZBECK | BBV 9721 | EMC2172 | 2021-08-30 | 2022-08-29 |

| Radiated Spurious Emissions (Below 1GHz) | | | | | |
|--|--------------------------------|---------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| EMI Test Receiver(10Hz-26.5GHz) | Rohde & Schwarz | ESIB26 | EMC0522 | 2021-01-08 | 2022-01-07 |
| Chamber cable | HangTianXing | N/A | EMC0542 | 2020-09-09 | 2022-09-08 |
| Trilog Broadband Antenna(25MHz-1GHz)-Lab | SCHWARZBECK MESS-ELEKTRONIK | VULB 9168 | SEM003-18 | 2019-02-22 | 2022-02-22 |
| Amplifier(9kHz-1.3GHz) | HP | 8447F | EMC2065 | 2021-05-19 | 2022-05-18 |
| 10m Semi-Anechoic Chamber | ETS | N/A | EMC0530 | 2019-10-20 | 2022-10-19 |
| Test Software E3 | Audix | Ver.6.120110a | GZE100-61 | N/A | N/A |
| EMI Test Receiver(1Hz-8GHz) | Rohde & Schwarz | ESW8 | EMC2220 | 2021-05-26 | 2022-05-25 |

| Radiated Spurious Emissions (Above 1GHz) | | | | | |
|--|--------------------------------|---------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| EMI Test Receiver(20Hz-26.5GHz) | Rohde & Schwarz | ESIB26 | EMC0522 | 2021-01-08 | 2022-01-07 |
| Chamber cable(Above 1GHz) | Scoflex | KMKM-8.0m | EMC0545 | 2020-09-09 | 2022-09-08 |
| Horn Antenna(1GHz-18GHz) | SCHWARZBECK MESS-ELEKTRONIK | BBHA 9120D | EMC2026 | 2019-09-25 | 2022-09-24 |
| 1GHz-26.5 GHz Pre-Amplifier | Agilent | 8449B | EMC0521 | 2021-01-08 | 2022-01-07 |
| 2.4GHz Filter | Micro-Tronics | BRM 50702 | EMC2069 | 2021-01-08 | 2022-01-07 |
| 966 Anechoic Chamber | C.R.T | 9m x 6m x 6m | EMC2142 | 2020-12-20 | 2023-12-19 |
| MXE EMI Receiver(10Hz-8.4GHz) | Keysight | N9038A | EMC2139 | 2021-11-01 | 2022-10-31 |
| EXA Signal Analyzer(10Hz-44GHz) | Keysight | N9010A | EMC2138 | 2021-09-16 | 2022-09-15 |
| Test Software E3 | Audix | Ver.6.120110a | GZE100-61 | N/A | N/A |
| Horn Antenna(14-40GHz) | SCHWARZBECK | BBHA 9170 | EMC2041 | 2020-06-28 | 2023-06-27 |



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| | | | | | |
|---|-------------|----------|---------|------------|------------|
| Microwave Broadband Preamplifier (18-40GHz) | SCHWARZBECK | BBV 9721 | EMC2172 | 2021-08-30 | 2022-08-29 |
|---|-------------|----------|---------|------------|------------|

| General used equipment | | | | | |
|------------------------|--------------|----------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| DMM | Fluke | 73 | EMC0006 | 2021-07-05 | 2022-07-05 |
| DMM | Fluke | 73 | EMC0007 | 2021-07-05 | 2022-07-05 |



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

6.1.2 Conclusion

15.203 Requirement:

Testing shall be performed using the highest gain antenna of each combination of licence-exempt transmitter and antenna type, with the transmitter output power set at the maximum level. When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna manufacturer.

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 antennas are Left earbud: -0.24dBi Right earbuds: -1.61dBi

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)

Limit:

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)

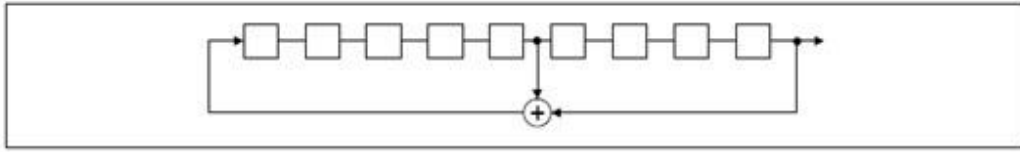
Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



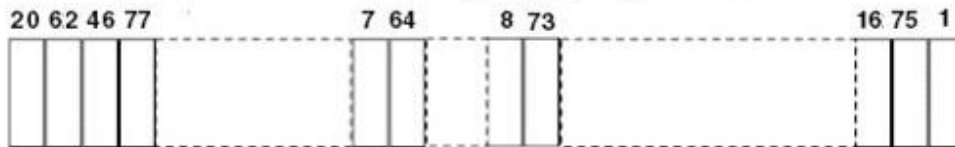
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Linear Feedback Shift Register for Generation of the PRBS sequence

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 coordinated with other FHSS System in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.



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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

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 coordinated 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(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: 23.6 °C Humidity: 48.6 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

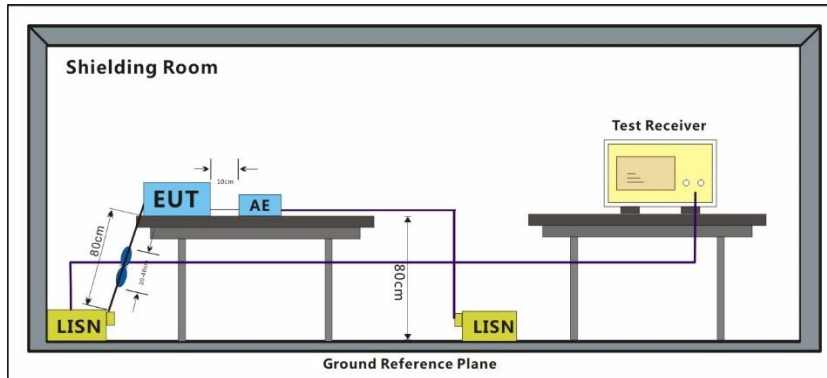
| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|---|
| Final test | 08 | TX_non-Hop mode(Left earbud)+charging_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation and being charged. All modes have been tested and only the data of worst case is recorded in the report. |
| Final test | 09 | TX_non-Hop mode(Right earbud)+charging_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation and being charged. All modes have been tested and only the data of worst case is recorded in the report. |



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 Guangzhou Branch Technical Services EEC Laboratory | 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

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.

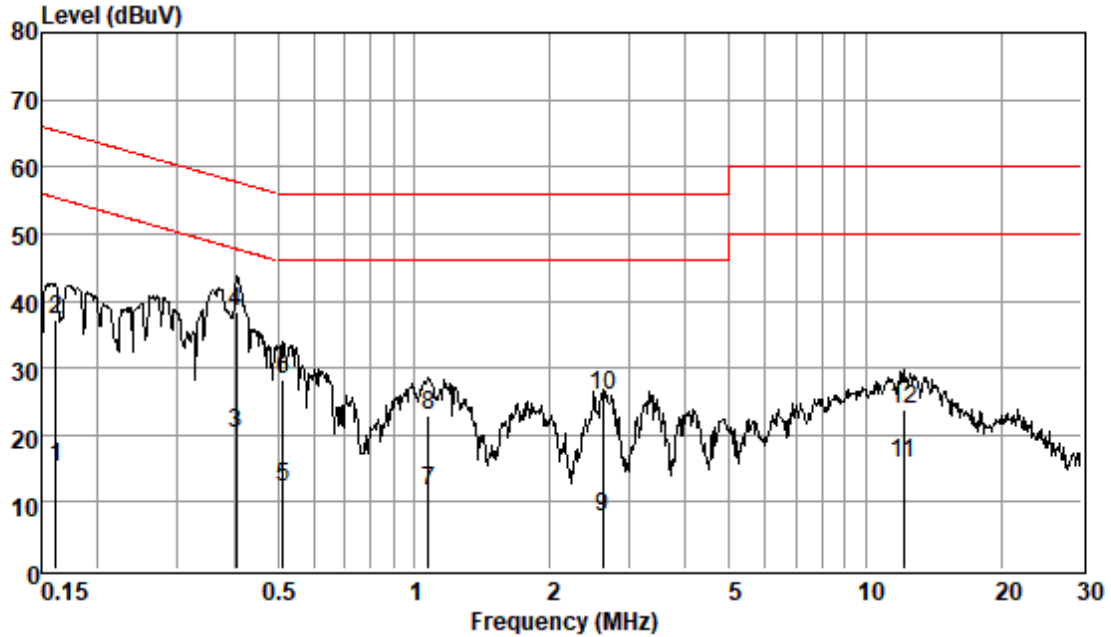
Remark: LISN=Read Level+ Cable Loss+ LISN Factor



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Test Mode: 08; Line: Neutral, Modulation: GFSK; Channel:Low



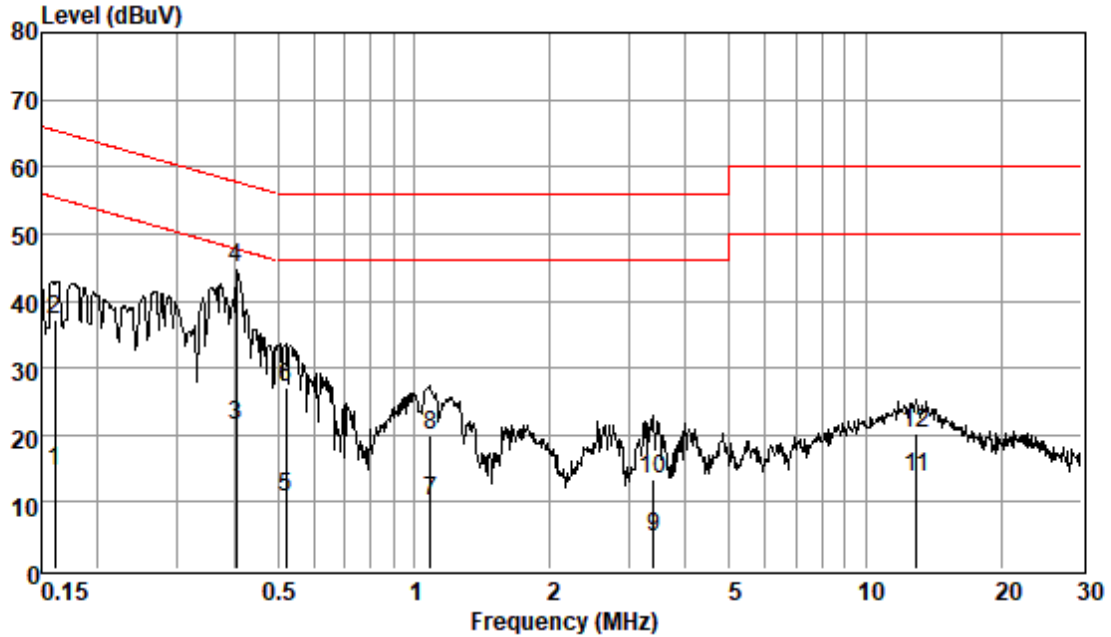
Pol :NEUTRAL
Mode :
Model :

| Frequency MHz | Read Level dBuV | Cable Loss dB | LISN Factor dB | Measured Level dBuV | Limit Line dBuV | Over Limit dB | Remark |
|------------------|-----------------------|---------------------|----------------------|---------------------------|-----------------------|---------------------|---------|
| 0.16 | 5.50 | 0.06 | 9.55 | 15.11 | 55.38 | -40.27 | Average |
| 0.16 | 27.54 | 0.06 | 9.55 | 37.15 | 65.38 | -28.23 | QP |
| 0.40 | 10.65 | 0.06 | 9.56 | 20.27 | 47.77 | -27.50 | Average |
| 0.40 | 28.77 | 0.06 | 9.56 | 38.39 | 57.77 | -19.38 | QP |
| 0.51 | 2.47 | 0.07 | 9.55 | 12.09 | 46.00 | -33.91 | Average |
| 0.51 | 18.69 | 0.07 | 9.55 | 28.31 | 56.00 | -27.69 | QP |
| 1.08 | 1.84 | 0.08 | 9.55 | 11.47 | 46.00 | -34.53 | Average |
| 1.08 | 13.35 | 0.08 | 9.55 | 22.98 | 56.00 | -33.02 | QP |
| 2.62 | -1.84 | 0.14 | 9.55 | 7.85 | 46.00 | -38.15 | Average |
| 2.62 | 16.25 | 0.14 | 9.55 | 25.94 | 56.00 | -30.06 | QP |
| 12.12 | 5.98 | 0.27 | 9.61 | 15.86 | 50.00 | -34.14 | Average |
| 12.12 | 14.02 | 0.27 | 9.61 | 23.90 | 60.00 | -36.10 | QP |



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Test Mode: 08; Line: Line, Modulation: GFSK; Channel:Low



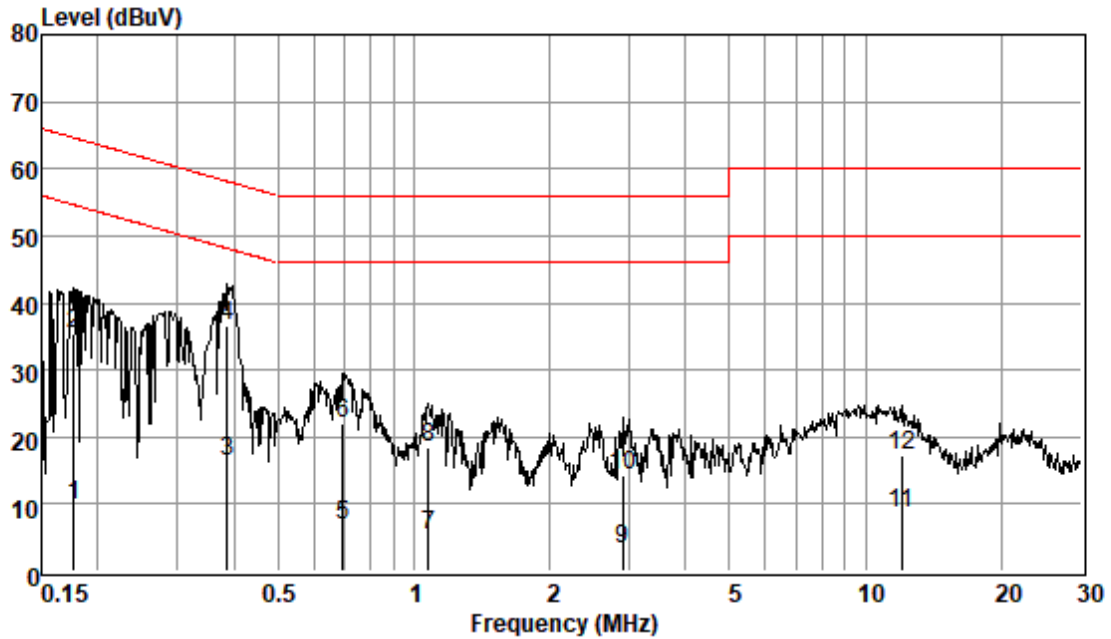
Pol :LINE
Mode :
Model :

| Frequency MHz | Read Level dBuV | Cable Loss dB | LISN Factor dB | Measured Level dBuV | Limit Line dBuV | Over Limit dB | Remark |
|------------------|-----------------------|---------------------|----------------------|---------------------------|-----------------------|---------------------|---------|
| 0.16 | 4.87 | 0.06 | 9.62 | 14.55 | 55.43 | -40.88 | Average |
| 0.16 | 27.58 | 0.06 | 9.62 | 37.26 | 65.43 | -28.17 | QP |
| 0.40 | 11.82 | 0.06 | 9.62 | 21.50 | 47.77 | -26.27 | Average |
| 0.40 | 35.31 | 0.06 | 9.62 | 44.99 | 57.77 | -12.78 | QP |
| 0.52 | 1.07 | 0.07 | 9.63 | 10.77 | 46.00 | -35.23 | Average |
| 0.52 | 17.26 | 0.07 | 9.63 | 26.96 | 56.00 | -29.04 | QP |
| 1.09 | 0.44 | 0.08 | 9.62 | 10.14 | 46.00 | -35.86 | Average |
| 1.09 | 10.11 | 0.08 | 9.62 | 19.81 | 56.00 | -36.19 | QP |
| 3.40 | -4.89 | 0.16 | 9.62 | 4.89 | 46.00 | -41.11 | Average |
| 3.40 | 3.49 | 0.16 | 9.62 | 13.27 | 56.00 | -42.73 | QP |
| 12.92 | 3.70 | 0.28 | 9.72 | 13.70 | 50.00 | -36.30 | Average |
| 12.92 | 10.25 | 0.28 | 9.72 | 20.25 | 60.00 | -39.75 | QP |



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Test Mode: 09; Line: Neutral, Modulation: GFSK; Channel:Low



Pol : NEUTRAL
Mode :
Model :

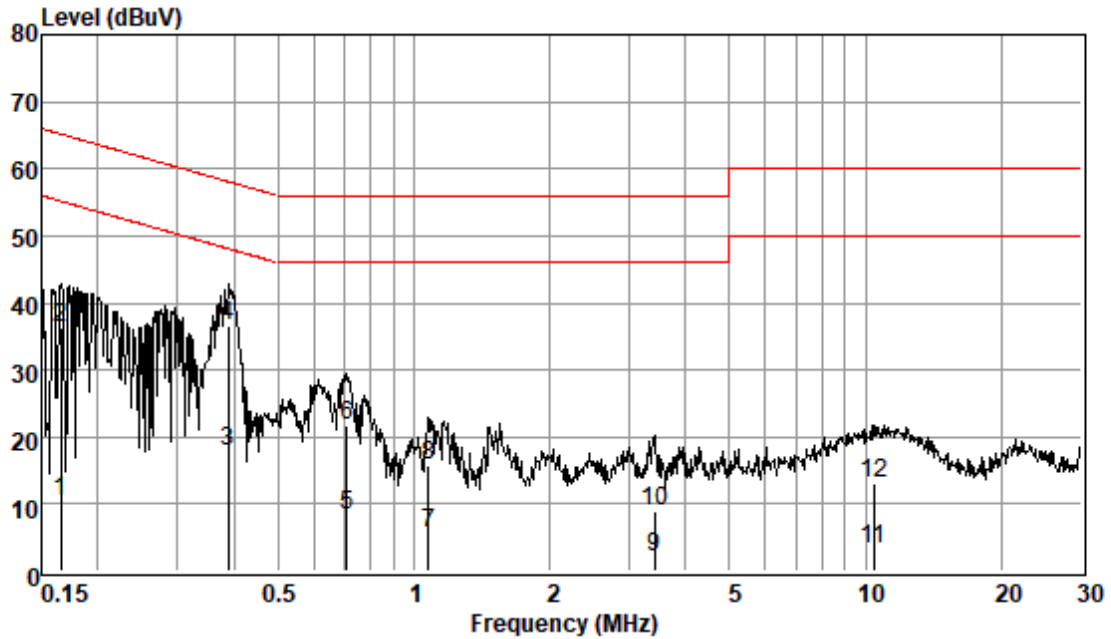
| Frequency MHz | Read Level dBuV | Cable Loss dB | LISN Factor dB | Measured Level dBuV | Limit Line dBuV | Over Limit dB | Remark |
|------------------|-----------------------|---------------------|----------------------|---------------------------|-----------------------|---------------------|---------|
| 0.18 | 0.12 | 0.06 | 9.55 | 9.73 | 54.64 | -44.91 | Average |
| 0.18 | 25.74 | 0.06 | 9.55 | 35.35 | 64.64 | -29.29 | QP |
| 0.39 | 6.70 | 0.06 | 9.56 | 16.32 | 48.12 | -31.80 | Average |
| 0.39 | 27.00 | 0.06 | 9.56 | 36.62 | 58.12 | -21.50 | QP |
| 0.70 | -2.67 | 0.07 | 9.55 | 6.95 | 46.00 | -39.05 | Average |
| 0.70 | 12.29 | 0.07 | 9.55 | 21.91 | 56.00 | -34.09 | QP |
| 1.08 | -4.34 | 0.08 | 9.55 | 5.29 | 46.00 | -40.71 | Average |
| 1.08 | 8.86 | 0.08 | 9.55 | 18.49 | 56.00 | -37.51 | QP |
| 2.90 | -6.40 | 0.14 | 9.56 | 3.30 | 46.00 | -42.70 | Average |
| 2.90 | 4.44 | 0.14 | 9.56 | 14.14 | 56.00 | -41.86 | QP |
| 12.00 | -1.27 | 0.27 | 9.61 | 8.61 | 50.00 | -41.39 | Average |
| 12.00 | 7.28 | 0.27 | 9.61 | 17.16 | 60.00 | -42.84 | QP |



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Test Mode: 09; Line: Line, Modulation: GFSK; Channel:Low



Pol :LINE
Mode :
Model :

| Frequency MHz | Read Level dBuV | Cable Loss dB | LISN Factor dB | Measured Level dBuV | Limit Line dBuV | Over Limit dB | Remark |
|------------------|-----------------------|---------------------|----------------------|---------------------------|-----------------------|---------------------|---------|
| 0.17 | 0.73 | 0.06 | 9.62 | 10.41 | 55.16 | -44.75 | Average |
| 0.17 | 26.54 | 0.06 | 9.62 | 36.22 | 65.16 | -28.94 | QP |
| 0.39 | 8.21 | 0.06 | 9.62 | 17.89 | 48.08 | -30.19 | Average |
| 0.39 | 27.03 | 0.06 | 9.62 | 36.71 | 58.08 | -21.37 | QP |
| 0.71 | -1.42 | 0.07 | 9.63 | 8.28 | 46.00 | -37.72 | Average |
| 0.71 | 11.95 | 0.07 | 9.63 | 21.65 | 56.00 | -34.35 | QP |
| 1.08 | -3.92 | 0.08 | 9.62 | 5.78 | 46.00 | -40.22 | Average |
| 1.08 | 6.09 | 0.08 | 9.62 | 15.79 | 56.00 | -40.21 | QP |
| 3.42 | -7.72 | 0.16 | 9.62 | 2.06 | 46.00 | -43.94 | Average |
| 3.42 | -0.80 | 0.16 | 9.62 | 8.98 | 56.00 | -47.02 | QP |
| 10.40 | -6.65 | 0.24 | 9.69 | 3.28 | 50.00 | -46.72 | Average |
| 10.40 | 3.16 | 0.24 | 9.69 | 13.09 | 60.00 | -46.91 | 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≤ 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: 25.2 °C Humidity: 46.5 % RH Atmospheric Pressure: 1020 mbar

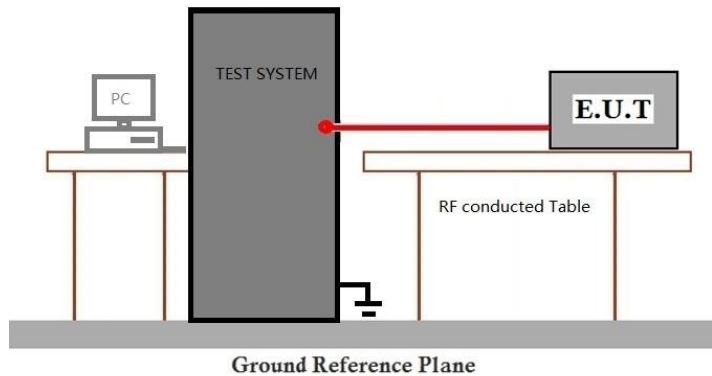
7.2.2 Test Mode Description

| Pre-scan / Mode | Code | Description |
|-----------------|------|--|
| Final test | 06 | TX_non-Hop mode(Left earbud)_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 | 07 | TX_non-Hop mode(Right earbud)_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

cable loss=0.9dB

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

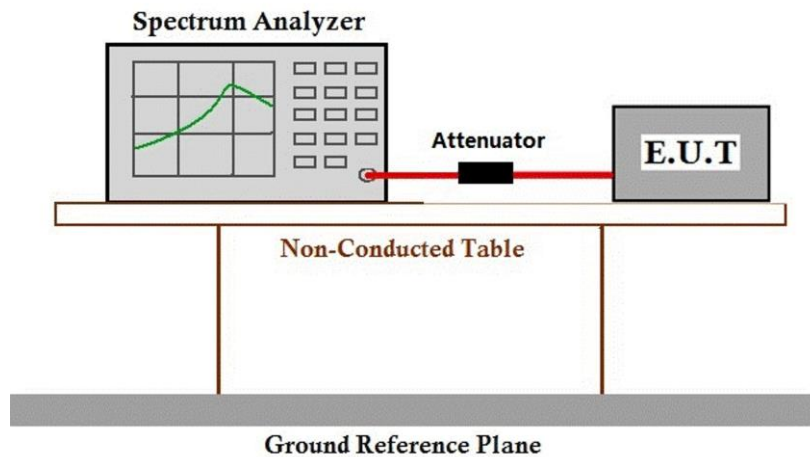
7.3.1 E.U.T. Operation

Operating Environment:
 Temperature: 23.5 °C Humidity: 46.5 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|--|
| Final test | 06 | TX_non-Hop mode(Left earbud)_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 | 07 | TX_non-Hop mode(Right earbud)_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

cable loss=0.9dB

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:

2/3 of the 20dB bandwidth base on the transmission power is less than 0.125W.

7.4.1 E.U.T. Operation

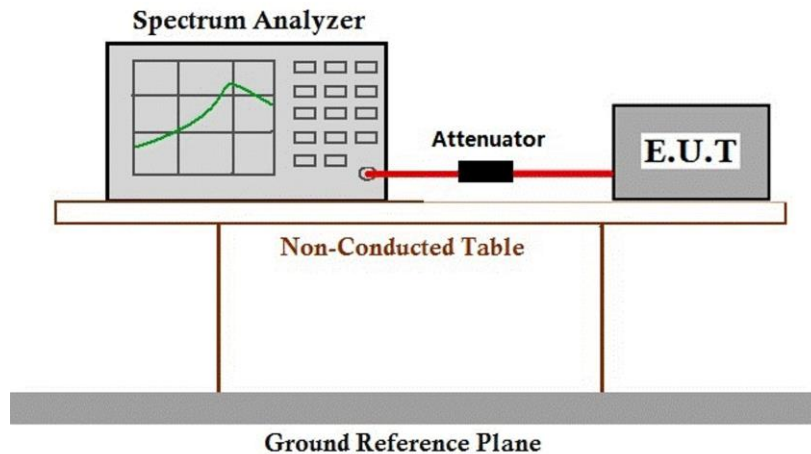
Operating Environment:

Temperature: 23.5 °C Humidity: 46.5 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 04 | TX_Hop mode(Left earbud)_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. |
| Final test | 05 | TX_Hop mode(Right earbud)_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

cable loss=0.9dB

Please Refer to Appendix for Details



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: 23.5 °C Humidity: 46.5 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

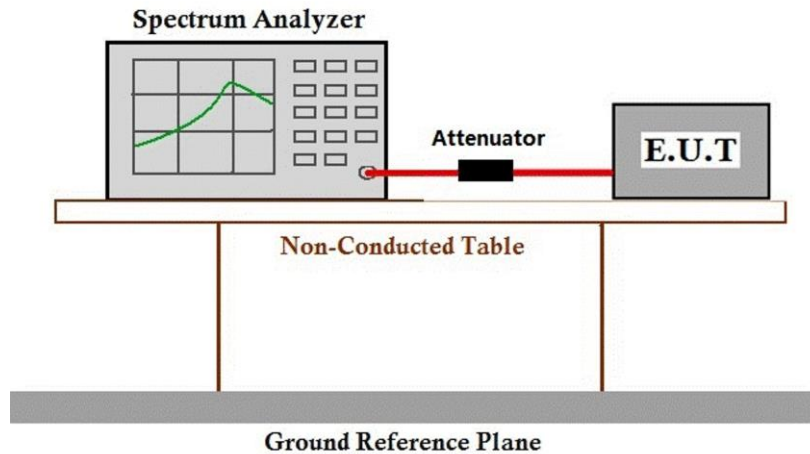
| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 04 | TX_Hop mode(Left earbud)_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. |
| Final test | 05 | TX_Hop mode(Right earbud)_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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7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

cable loss=0.9dB

Please Refer to Appendix for Details



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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: 23.5 °C Humidity: 46.5 % RH Atmospheric Pressure: 1020 mbar

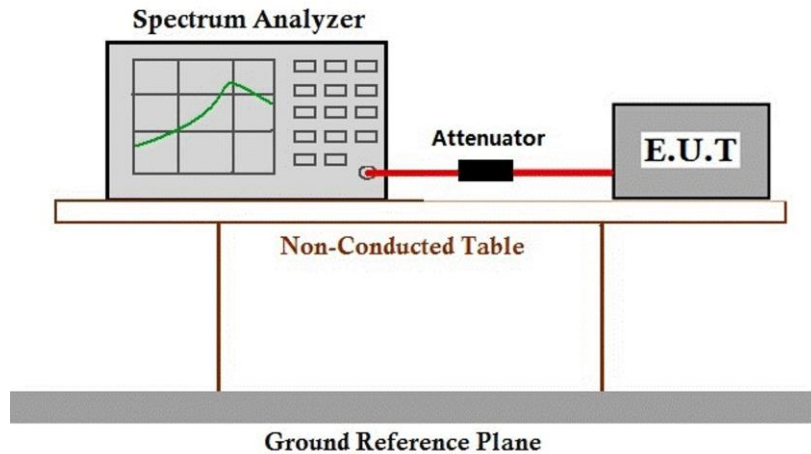
7.6.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 04 | TX_Hop mode(Left earbud)_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. |
| Final test | 05 | TX_Hop mode(Right earbud)_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

cable loss=0.9dB

Please Refer to Appendix for Details



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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: 23.5 °C Humidity: 46.5 % RH Atmospheric Pressure: 1020 mbar

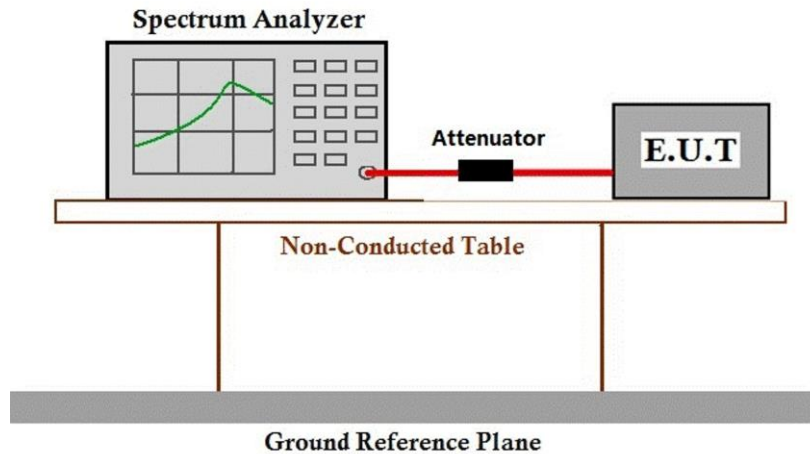
7.7.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|--|
| Final test | 04 | TX_Hop mode(Left earbud)_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. |
| Final test | 05 | TX_Hop mode(Right earbud)_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. |
| Final test | 06 | TX_non-Hop mode(Left earbud)_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 | 07 | TX_non-Hop mode(Right earbud)_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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7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

cable loss=0.9dB

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: 23.5 °C Humidity: 46.5 % RH Atmospheric Pressure: 1020 mbar

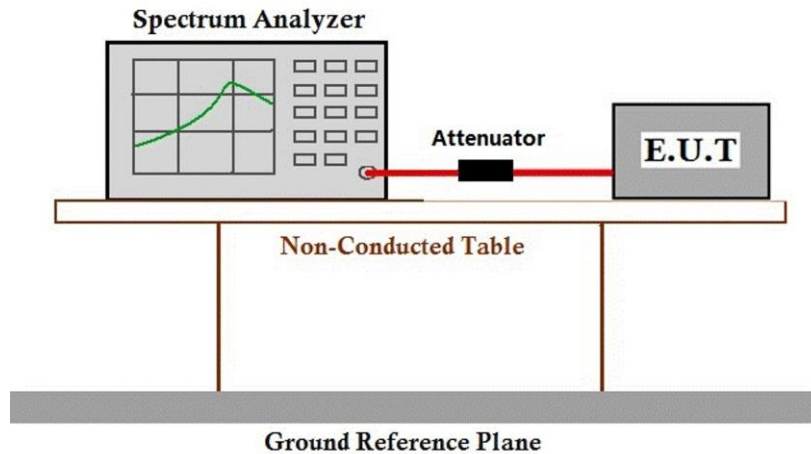
7.8.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|--|
| Final test | 06 | TX_non-Hop mode(Left earbud)_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 | 07 | TX_non-Hop mode(Right earbud)_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

cable loss=0.9dB

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.

7.9.1 E.U.T. Operation

Operating Environment:
 Temperature: 22.1 °C Humidity: 42.1 % RH Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

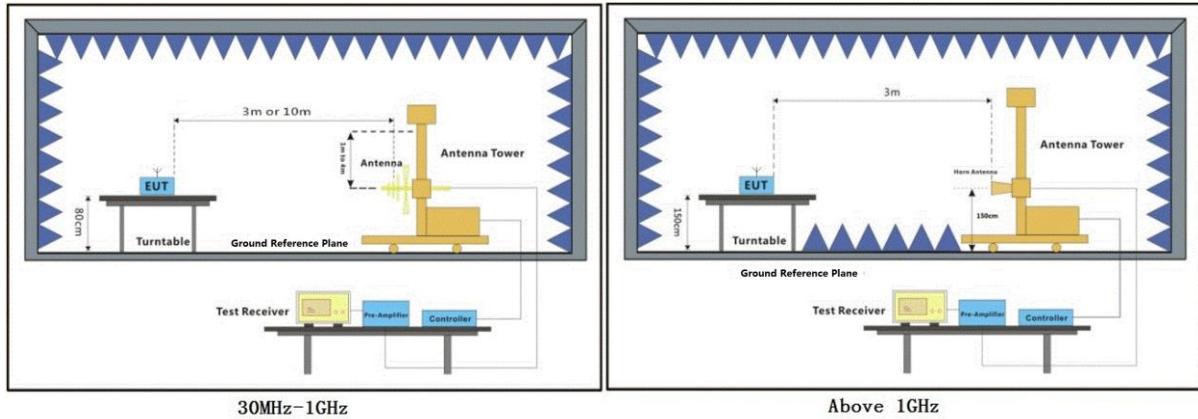
| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Final test | 06 | TX_non-Hop mode(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. |
| Final test | 07 | TX_non-Hop mode(Right earbud)_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. |
| Pre-scan | 08 | TX_non-Hop mode(Left earbud)+charging_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation and being charged. All modes have been tested and only the data of worst case is recorded in the report. |
| Pre-scan | 09 | TX_non-Hop mode(Right earbud)+charging_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation and being charged. All modes have been tested and only the data of worst case is recorded in the report. |



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7.9.3 Test Setup Diagram



7.9.4 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 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

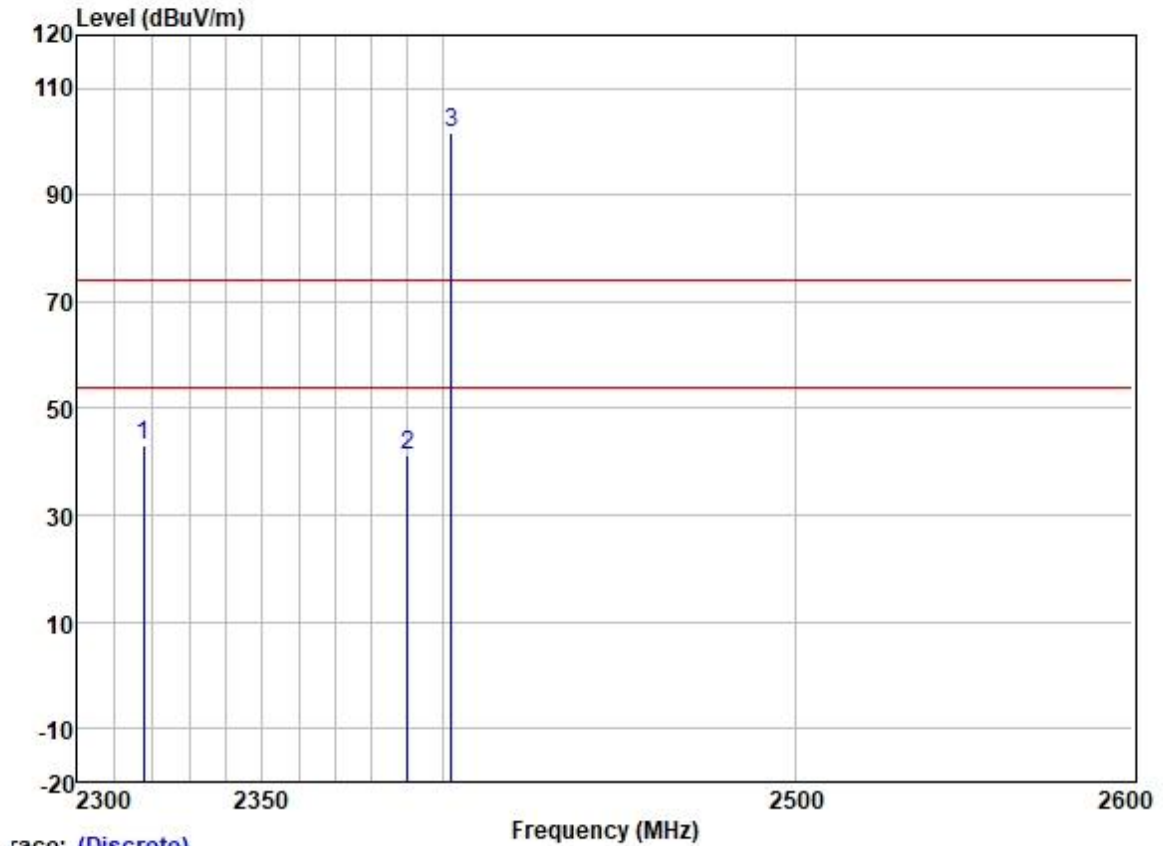
Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level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



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Test Mode: 06; Polarity: Horizontal; Modulation:GFSK; ; Channel:Low



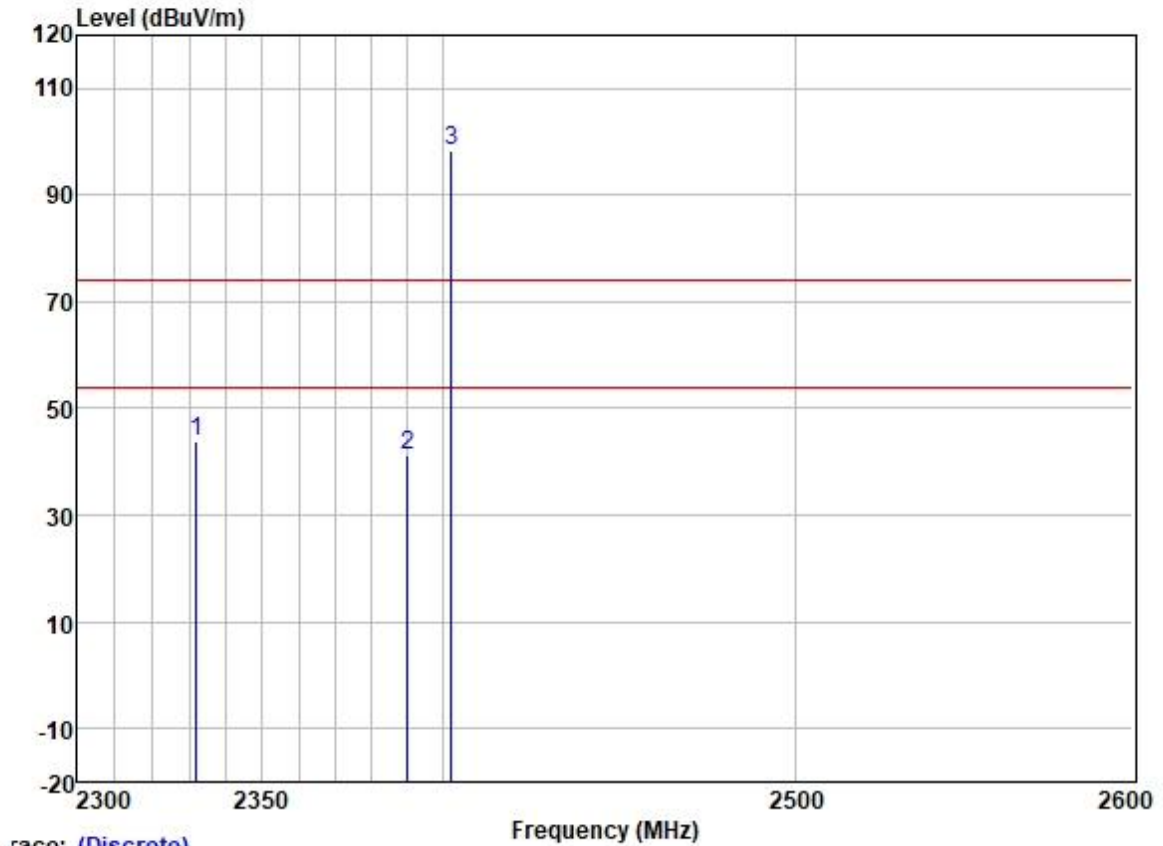
Trace: (Discrete)

| | Read | Antenna | Cable | Preamp | Limit | Over | | | |
|------|----------|---------|-------|--------|--------|--------|-------|-----------|-----------------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 2317.845 | 50.08 | 27.17 | 3.33 | 37.62 | 42.96 | 74.00 | -31.04 | HORIZONTAL Peak |
| 2 | 2390.000 | 48.10 | 27.33 | 3.48 | 37.59 | 41.32 | 74.00 | -32.68 | HORIZONTAL Peak |
| 3 * | 2402.000 | 108.28 | 27.35 | 3.50 | 37.59 | 101.54 | 74.00 | 27.54 | HORIZONTAL Peak |



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Test Mode: 06; Polarity: Vertical; Modulation:GFSK; ; Channel:Low



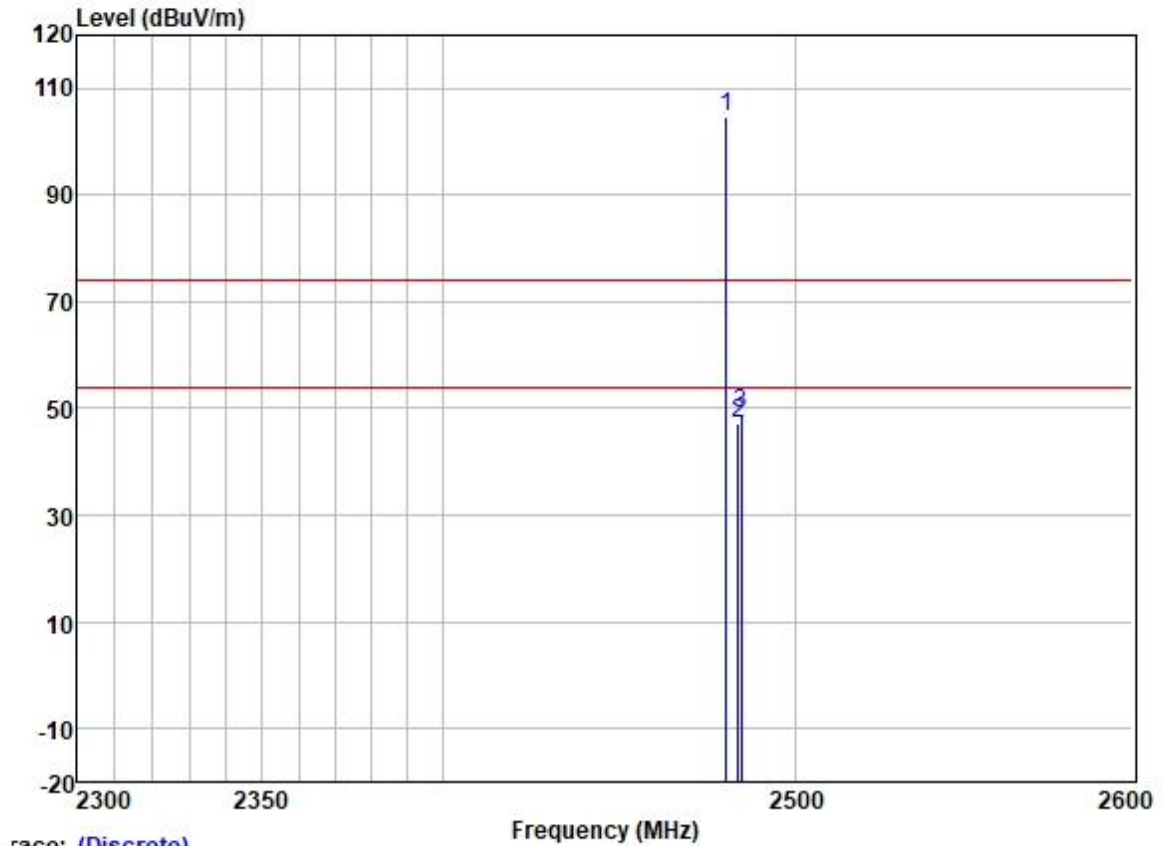
Trace: (Discrete)

| | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Limit Level | Over Limit | Pol/Phase | Remark |
|-----|-----------|---------------|--------------|-------------|---------------|-------------|------------|-----------|---------------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 2331.934 | 50.92 | 27.20 | 3.36 | 37.62 | 43.86 | 74.00 | -30.14 | VERTICAL Peak |
| 2 | 2390.000 | 48.12 | 27.33 | 3.48 | 37.59 | 41.34 | 74.00 | -32.66 | VERTICAL Peak |
| 3 * | 2402.000 | 105.19 | 27.35 | 3.50 | 37.59 | 98.45 | 74.00 | 24.45 | VERTICAL Peak |



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Test Mode: 06; Polarity: Horizontal; Modulation:GFSK; ; Channel:High



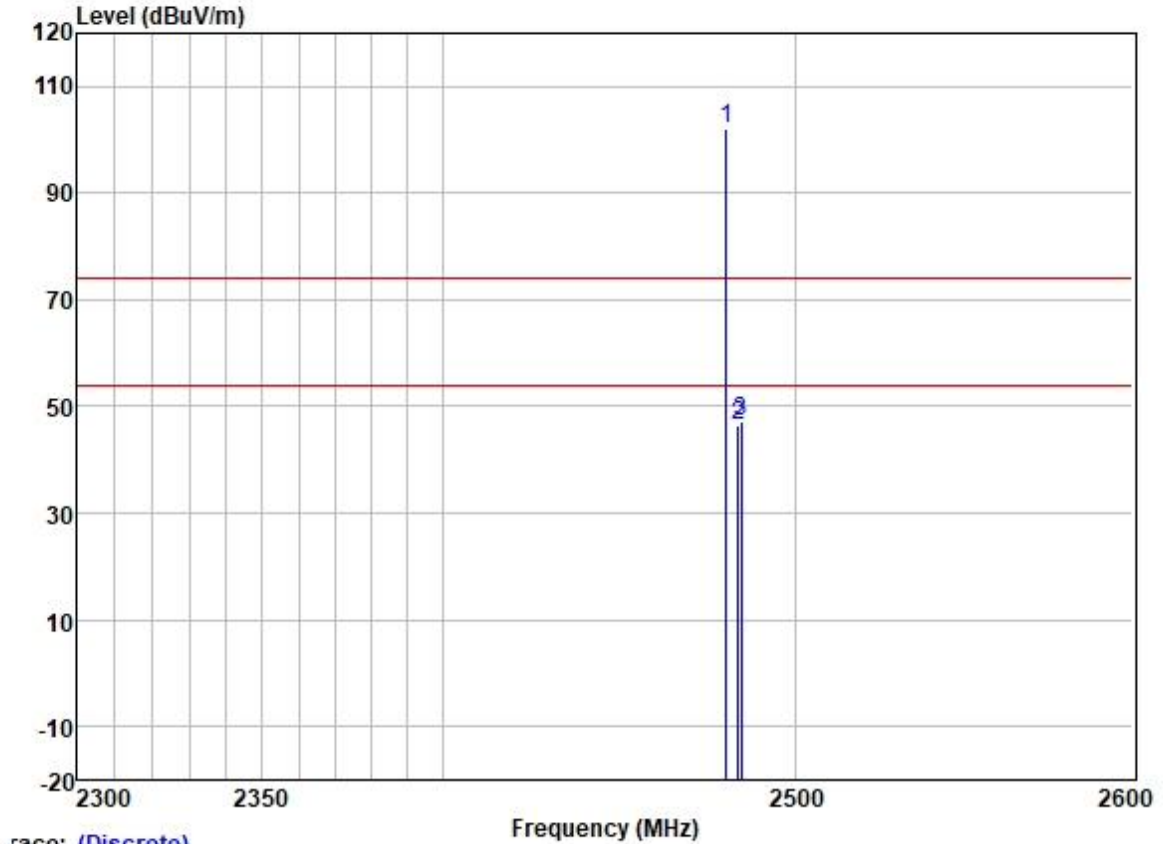
Trace: (Discrete)

| | Read Freq | Antenna Level | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|-----|-----------|---------------|------------|---------------|--------|------------|------------|-----------|-----------------|
| | MHz | dBuV | dB/m | dB | dBuV/m | dBuV/m | dB | | |
| 1 * | 2480.000 | 111.11 | 27.47 | 3.60 | 37.57 | 104.61 | 74.00 | 30.61 | HORIZONTAL Peak |
| 2 | 2483.500 | 53.64 | 27.48 | 3.53 | 37.57 | 47.08 | 74.00 | -26.92 | HORIZONTAL Peak |
| 3 | 2484.221 | 55.50 | 27.48 | 3.53 | 37.57 | 48.94 | 74.00 | -25.06 | HORIZONTAL Peak |



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Test Mode: 06; Polarity: Vertical; Modulation:GFSK; ; Channel:High



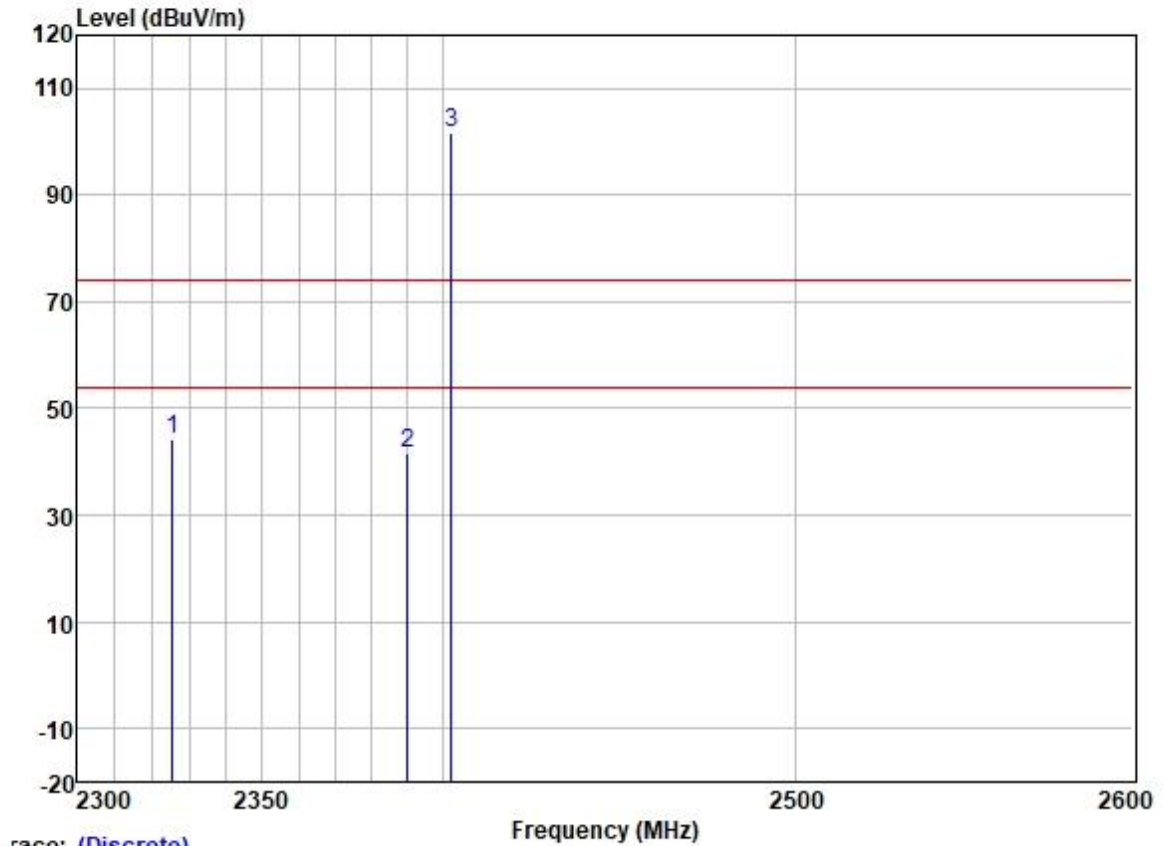
Trace: (Discrete)

| | Read | Antenna | Cable | Preamp | Limit | Over | | | |
|------|----------|---------|-------|--------|--------|--------|-------|-----------|---------------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 * | 2480.000 | 108.71 | 27.47 | 3.60 | 37.57 | 102.21 | 74.00 | 28.21 | VERTICAL Peak |
| 2 | 2483.500 | 52.90 | 27.48 | 3.53 | 37.57 | 46.34 | 74.00 | -27.66 | VERTICAL Peak |
| 3 | 2484.221 | 53.71 | 27.48 | 3.53 | 37.57 | 47.15 | 74.00 | -26.85 | VERTICAL Peak |



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Test Mode: 07; Polarity: Horizontal; Modulation:GFSK; ; Channel:Low



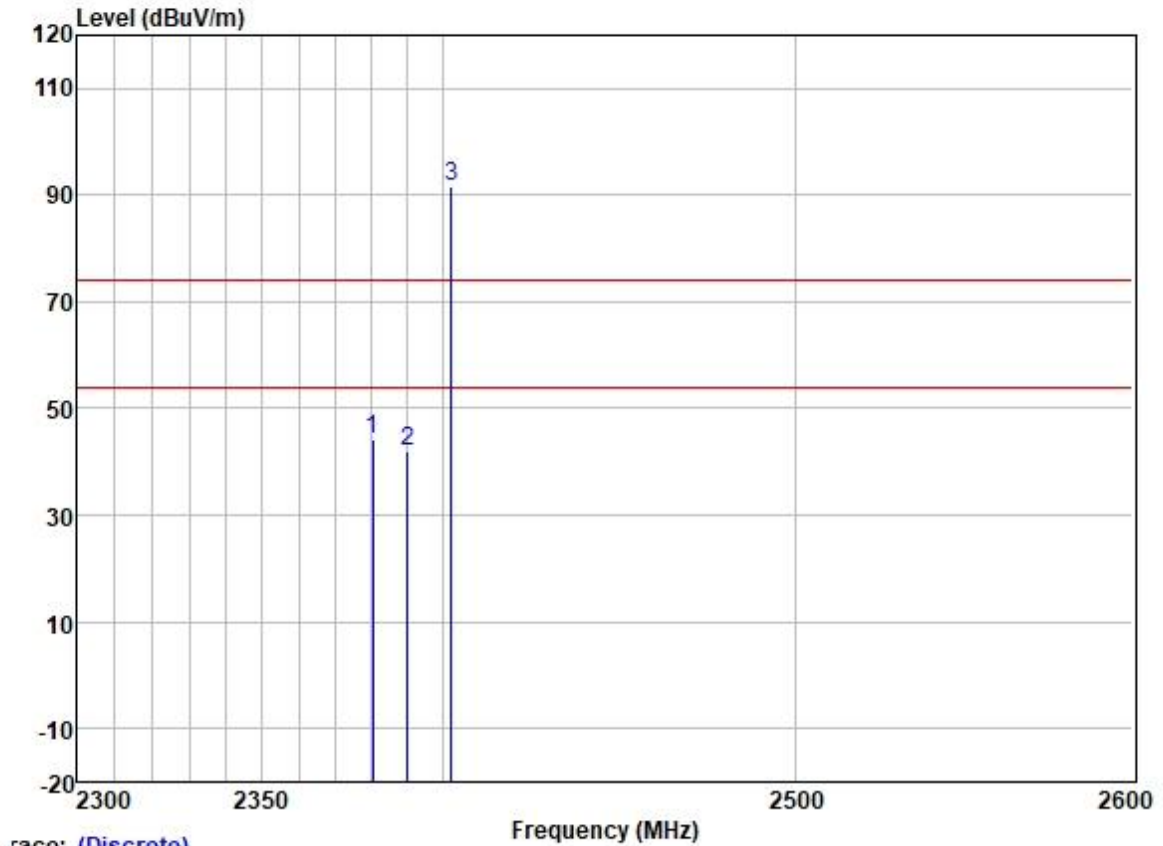
Trace: (Discrete)

| | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|-----|-----------|---------------|--------------|-------------|---------------|--------|------------|------------|------------|--------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 2325.421 | 51.44 | 27.19 | 3.34 | 37.62 | 44.35 | 74.00 | -29.65 | HORIZONTAL | Peak |
| 2 | 2390.000 | 48.53 | 27.33 | 3.48 | 37.59 | 41.75 | 74.00 | -32.25 | HORIZONTAL | Peak |
| 3 * | 2402.000 | 108.27 | 27.35 | 3.50 | 37.59 | 101.53 | 74.00 | 27.53 | HORIZONTAL | Peak |



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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; ; Channel:Low



Trace: (Discrete)

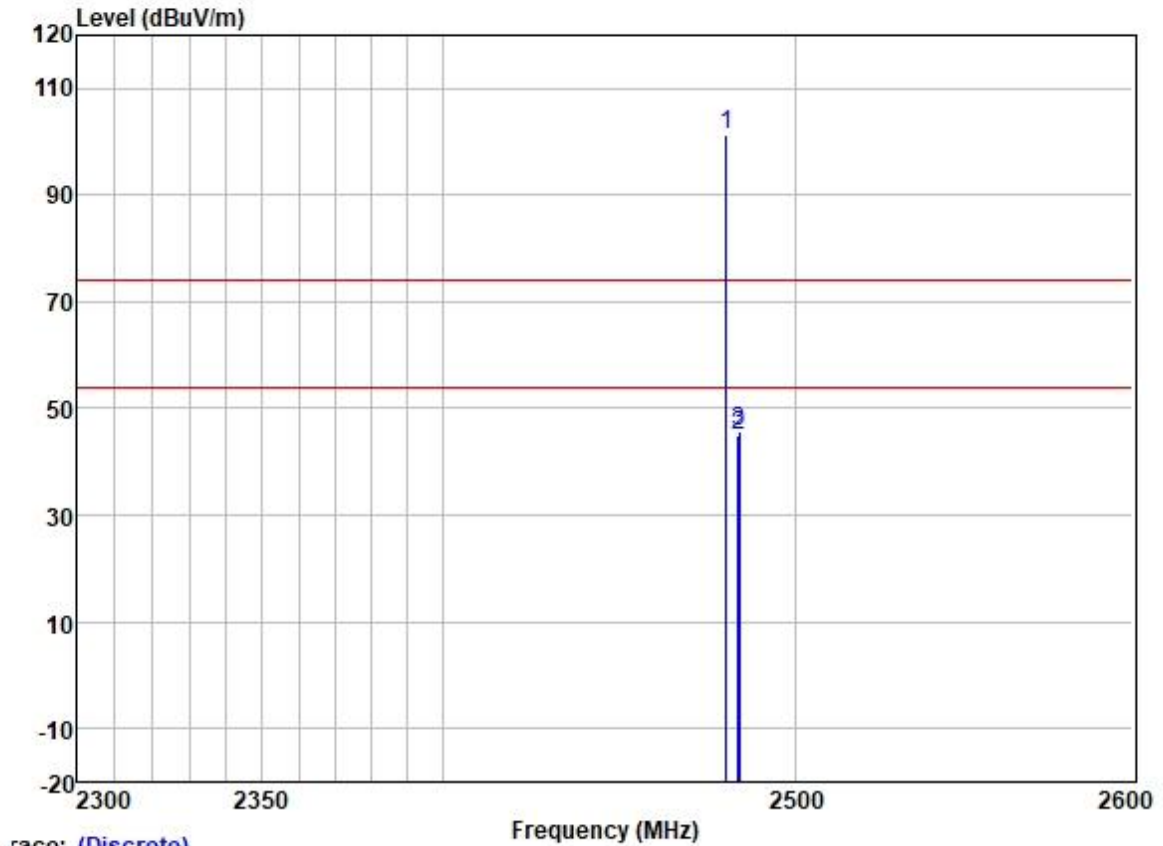
| | Read | Antenna | Cable | Preamp | Limit | Over | | | |
|------|----------|---------|-------|--------|--------|--------|-------|-----------|---------------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 2380.260 | 50.86 | 27.31 | 3.46 | 37.60 | 44.03 | 74.00 | -29.97 | VERTICAL Peak |
| 2 | 2390.000 | 48.71 | 27.33 | 3.48 | 37.59 | 41.93 | 74.00 | -32.07 | VERTICAL Peak |
| 3 * | 2402.000 | 98.41 | 27.35 | 3.50 | 37.59 | 91.67 | 74.00 | 17.67 | VERTICAL Peak |



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Test Mode: 07; Polarity: Horizontal; Modulation:GFSK; ; Channel:High



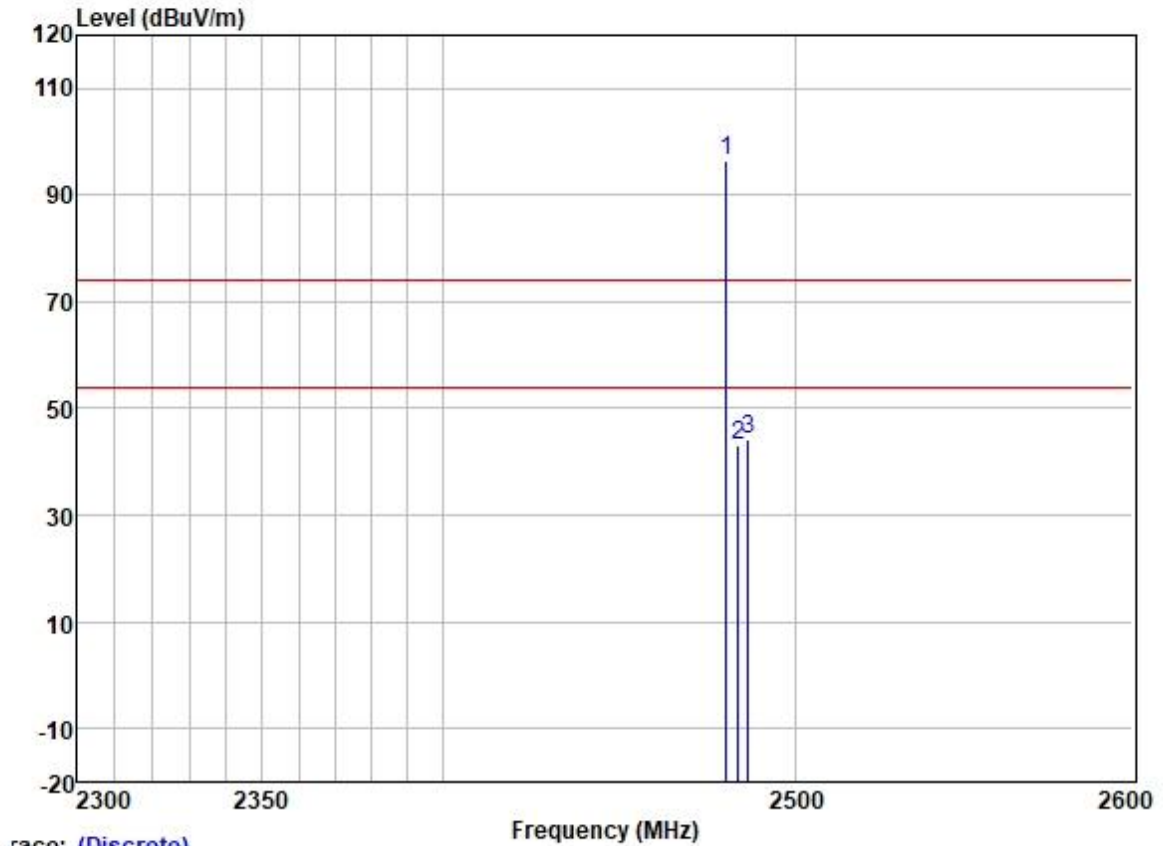
Trace: (Discrete)

| | Read | Antenna | Cable | Preamp | Limit | Over | | | |
|------|----------|---------|-------|--------|--------|--------|-------|-----------|-----------------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 * | 2480.000 | 107.87 | 27.47 | 3.60 | 37.57 | 101.37 | 74.00 | 27.37 | HORIZONTAL Peak |
| 2 | 2483.500 | 51.51 | 27.48 | 3.53 | 37.57 | 44.95 | 74.00 | -29.05 | HORIZONTAL Peak |
| 3 | 2483.871 | 52.19 | 27.48 | 3.53 | 37.57 | 45.63 | 74.00 | -28.37 | HORIZONTAL Peak |



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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; ; Channel:High



Trace: (Discrete)

| | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Limit Level | Over Limit | Pol/Phase | Remark |
|-----|-----------|---------------|--------------|-------------|---------------|-------------|------------|-----------|---------------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dB | | |
| 1 * | 2480.000 | 102.99 | 27.47 | 3.60 | 37.57 | 96.49 | 74.00 | 22.49 | VERTICAL Peak |
| 2 | 2483.500 | 49.50 | 27.48 | 3.53 | 37.57 | 42.94 | 74.00 | -31.06 | VERTICAL Peak |
| 3 | 2486.444 | 50.81 | 27.48 | 3.53 | 37.57 | 44.25 | 74.00 | -29.75 | VERTICAL 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 6.4,6.5,6.6
 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.

7.10.1 E.U.T. Operation

Operating Environment:
 Temperature: 23.6 °C Humidity: 49.5 % RH Atmospheric Pressure: 1020 mbar

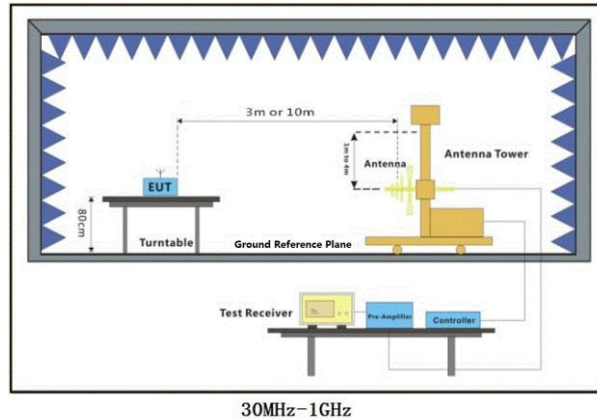
7.10.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Final test | 06 | TX_non-Hop mode(Left earbud)_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 | 07 | TX_non-Hop mode(Right earbud)_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. |
| Pre-scan | 08 | TX_non-Hop mode(Left earbud)+charging_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation and being charged. All modes have been tested and only the data of worst case is recorded in the report. |
| Pre-scan | 09 | TX_non-Hop mode(Right earbud)+charging_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation and being charged. 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

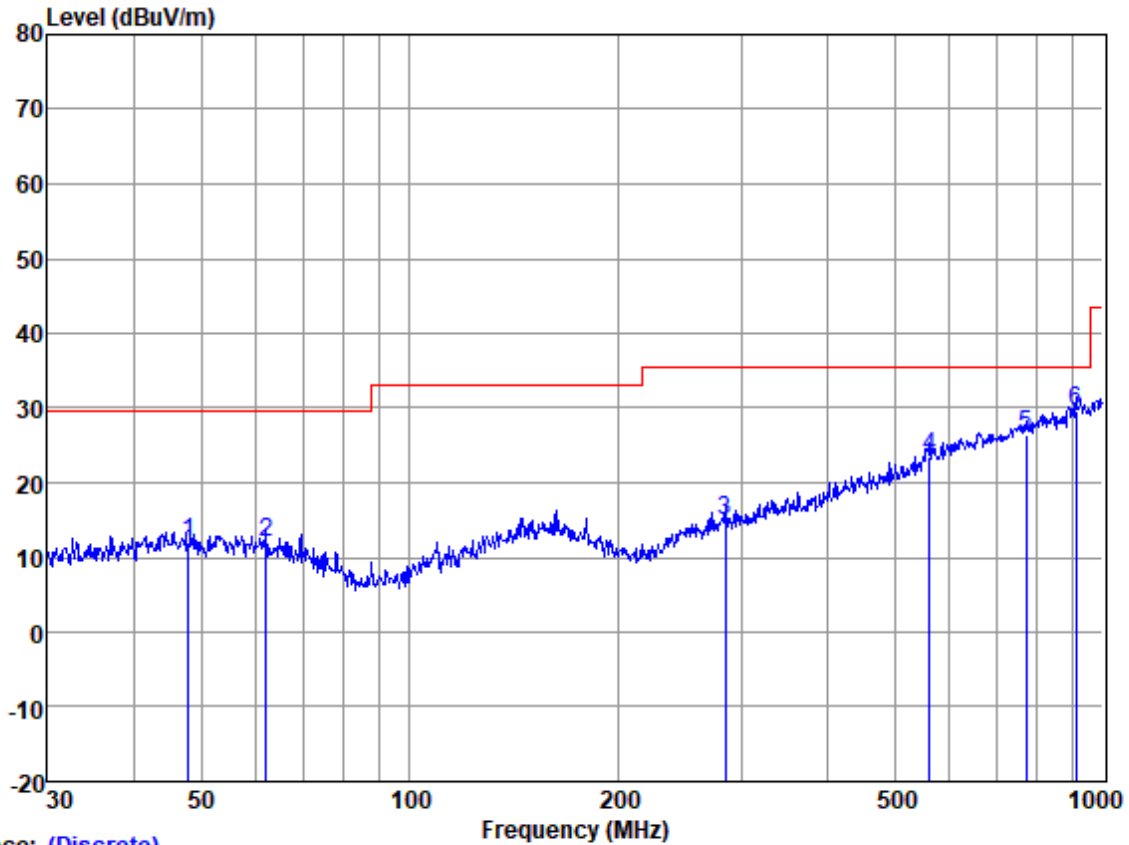
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, 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 peak, quasi-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) Through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor
- 3) Scan from 9kHz to 1 GHz, 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.



Test Mode: 06; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Trace: (Discrete)

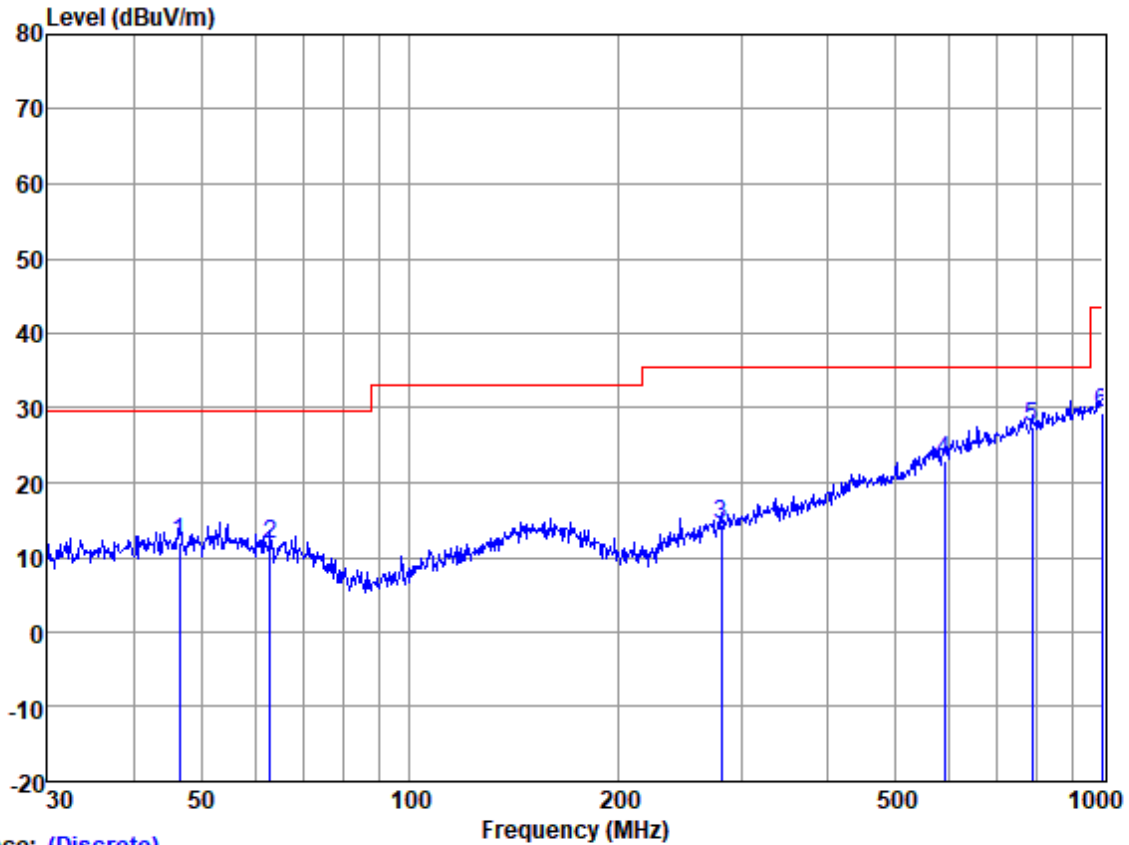
Site : SGS
Job :
Model :
Power :
Test Mode :

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Measured Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|--------|------------|----------------|------------|---------------|----------------|------------|------------|------------|--------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dBuV | | |
| 1 | 47.83 | 23.95 | 13.99 | 1.13 | 27.17 | 11.90 | 29.50 | -17.60 | HORIZONTAL | QP |
| 2 | 62.00 | 24.63 | 13.10 | 1.30 | 27.15 | 11.88 | 29.50 | -17.62 | HORIZONTAL | QP |
| 3 | 284.98 | 25.15 | 13.30 | 3.11 | 26.56 | 15.00 | 35.60 | -20.60 | HORIZONTAL | QP |
| 4 | 560.69 | 28.04 | 18.80 | 4.88 | 28.14 | 23.58 | 35.60 | -12.02 | HORIZONTAL | QP |
| 5 | 774.16 | 26.25 | 22.25 | 6.08 | 28.05 | 26.53 | 35.60 | -9.07 | HORIZONTAL | QP |
| 6 | 912.86 | 26.91 | 23.47 | 6.96 | 27.83 | 29.51 | 35.60 | -6.09 | HORIZONTAL | QP |



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Test Mode: 06; Polarity: Vertical; Modulation:GFSK; ; Channel:Low



Site : SGS
Job :
Model :
Power :
Test Mode :

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Measured Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|--------|------------|----------------|------------|---------------|----------------|------------|------------|-----------|--------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dBuV | | |
| 1 | 46.50 | 24.10 | 13.92 | 1.13 | 27.17 | 11.98 | 29.50 | -17.52 | VERTICAL | QP |
| 2 | 62.87 | 24.69 | 13.02 | 1.31 | 27.15 | 11.87 | 29.50 | -17.63 | VERTICAL | QP |
| 3 | 281.01 | 24.51 | 13.22 | 3.10 | 26.56 | 14.27 | 35.60 | -21.33 | VERTICAL | QP |
| 4 | 590.97 | 26.62 | 19.50 | 5.10 | 28.20 | 23.02 | 35.60 | -12.58 | VERTICAL | QP |
| 5 | 790.62 | 26.76 | 22.50 | 6.14 | 28.04 | 27.36 | 35.60 | -8.24 | VERTICAL | QP |
| 6 | 996.50 | 25.26 | 24.27 | 7.43 | 27.66 | 29.30 | 43.50 | -14.20 | VERTICAL | QP |



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The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

$$L_3 / L_{10} = D_{10} / D_3$$

Note:

L₃: Level @ 3m distance. Unit: uV/m;

L₁₀: Level @ 10m distance. Unit: uV/m;

D₃: 3m distance. Unit: m

D₁₀: 10m distance. Unit: m

The level at 3m test distance is below:

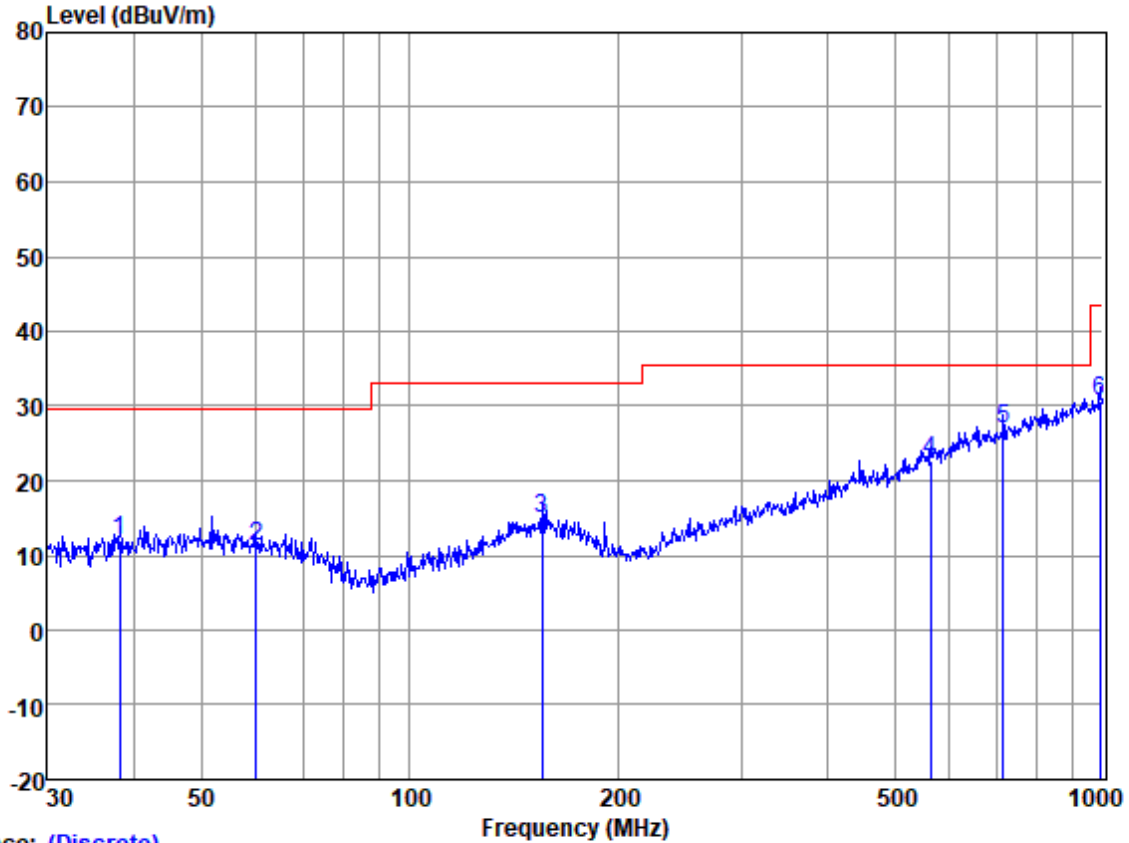
| Frequency (MHz) | Level @ 10m (dBuV/m) | Level @ 10m (uV/m) | Level @ 3m (uV/m) | Level @ 3m (dBuV/m) | Limit @ 3m (dBuV/m) | Margin (dB) | Ant. Polarization |
|-----------------|----------------------|--------------------|-------------------|---------------------|---------------------|-------------|-------------------|
| 47.826 | 11.9 | 3.94 | 13.12 | 22.36 | 40.00 | -17.64 | H |
| 61.995 | 11.88 | 3.93 | 13.09 | 22.34 | 40.00 | -17.66 | H |
| 284.977 | 15 | 5.62 | 18.74 | 25.46 | 46.00 | -20.54 | H |
| 560.693 | 23.58 | 15.10 | 50.34 | 34.04 | 46.00 | -11.96 | H |
| 774.158 | 26.53 | 21.21 | 70.69 | 36.99 | 46.00 | -9.01 | H |
| 912.862 | 29.51 | 29.89 | 99.63 | 39.97 | 46.00 | -6.03 | H |
| 46.503 | 11.98 | 3.97 | 13.24 | 22.44 | 40.00 | -17.56 | V |
| 62.871 | 11.87 | 3.92 | 13.07 | 22.33 | 40.00 | -17.67 | V |
| 281.008 | 14.27 | 5.17 | 17.23 | 24.73 | 46.00 | -21.27 | V |
| 590.974 | 23.02 | 14.16 | 47.19 | 33.48 | 46.00 | -12.52 | V |
| 790.619 | 27.36 | 23.33 | 77.78 | 37.82 | 46.00 | -8.18 | V |
| 996.5 | 29.3 | 29.17 | 97.25 | 39.76 | 54.00 | -14.24 | V |



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Test Mode: 07; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Trace: (Discrete)

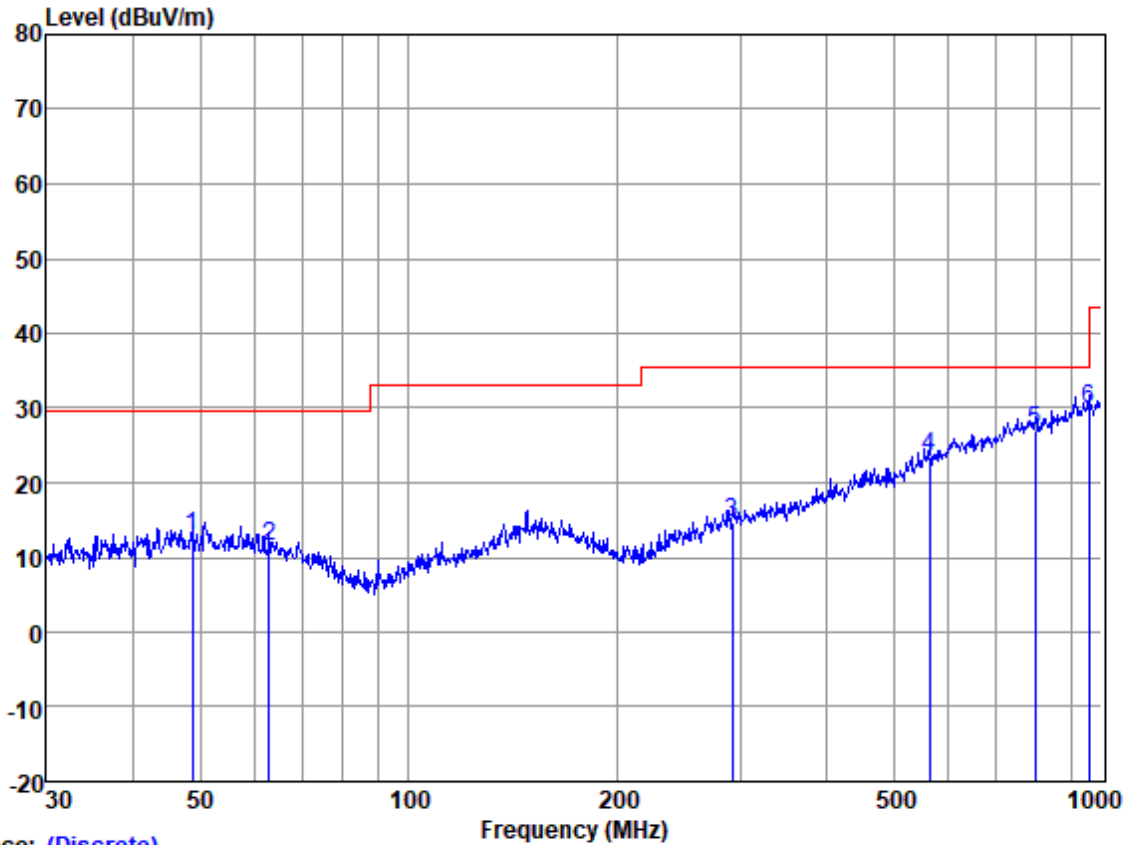
Site : SGS
Job :
Model :
Power :
Test Mode :

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamplifier Factor | Measured Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|--------|------------|----------------|------------|---------------------|----------------|------------|------------|------------|--------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dBuV | | |
| 1 | 38.08 | 24.84 | 13.31 | 1.09 | 27.18 | 12.06 | 29.50 | -17.44 | HORIZONTAL | QP |
| 2 | 60.07 | 23.77 | 13.40 | 1.26 | 27.16 | 11.27 | 29.50 | -18.23 | HORIZONTAL | QP |
| 3 | 154.82 | 25.68 | 13.75 | 2.28 | 26.81 | 14.90 | 33.10 | -18.20 | HORIZONTAL | QP |
| 4 | 562.66 | 27.07 | 18.82 | 4.93 | 28.15 | 22.67 | 35.60 | -12.93 | HORIZONTAL | QP |
| 5 | 716.68 | 27.73 | 21.43 | 5.83 | 28.14 | 26.85 | 35.60 | -8.75 | HORIZONTAL | QP |
| 6 | 989.54 | 26.78 | 24.20 | 7.37 | 27.67 | 30.68 | 43.50 | -12.82 | HORIZONTAL | QP |



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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:Low



Trace: (Discrete)

Site : SGS
Job :
Model :
Power :
Test Mode :

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Measured Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|--------|------------|----------------|------------|---------------|----------------|------------|------------|-----------|--------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dBuV | | |
| 1 | 48.67 | 24.98 | 13.97 | 1.14 | 27.17 | 12.92 | 29.50 | -16.58 | VERTICAL | QP |
| 2 | 62.87 | 24.25 | 13.02 | 1.31 | 27.15 | 11.43 | 29.50 | -18.07 | VERTICAL | QP |
| 3 | 293.08 | 24.60 | 13.45 | 3.14 | 26.56 | 14.63 | 35.60 | -20.97 | VERTICAL | QP |
| 4 | 562.66 | 27.87 | 18.82 | 4.93 | 28.15 | 23.47 | 35.60 | -12.13 | VERTICAL | QP |
| 5 | 798.98 | 26.14 | 22.60 | 6.17 | 28.03 | 26.88 | 35.60 | -8.72 | VERTICAL | QP |
| 6 | 955.44 | 26.54 | 23.90 | 7.18 | 27.74 | 29.88 | 35.60 | -5.72 | VERTICAL | QP |



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The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

$$L_3 / L_{10} = D_{10} / D_3$$

Note:

L₃: Level @ 3m distance. Unit: uV/m;

L₁₀: Level @ 10m distance. Unit: uV/m;

D₃: 3m distance. Unit: m

D₁₀: 10m distance. Unit: m

The level at 3m test distance is below:

| Frequency (MHz) | Level @ 10m (dBuV/m) | Level @ 10m (uV/m) | Level @ 3m (uV/m) | Level @ 3m (dBuV/m) | Limit @ 3m (dBuV/m) | Margin (dB) | Ant. Polarization |
|-----------------|----------------------|--------------------|-------------------|---------------------|---------------------|-------------|-------------------|
| 38.078 | 12.06 | 4.01 | 13.36 | 22.52 | 40.00 | -17.48 | H |
| 60.069 | 11.27 | 3.66 | 12.20 | 21.73 | 40.00 | -18.27 | H |
| 154.821 | 14.9 | 5.56 | 18.53 | 25.36 | 43.50 | -18.14 | H |
| 562.662 | 22.67 | 13.60 | 45.33 | 33.13 | 46.00 | -12.87 | H |
| 716.682 | 26.85 | 22.00 | 73.35 | 37.31 | 46.00 | -8.69 | H |
| 989.536 | 30.68 | 34.20 | 113.99 | 41.14 | 54.00 | -12.86 | H |
| 48.672 | 12.92 | 4.43 | 14.75 | 23.38 | 40.00 | -16.62 | V |
| 62.871 | 11.43 | 3.73 | 12.43 | 21.89 | 40.00 | -18.11 | V |
| 293.084 | 14.63 | 5.39 | 17.96 | 25.09 | 46.00 | -20.91 | V |
| 562.662 | 23.47 | 14.91 | 49.70 | 33.93 | 46.00 | -12.07 | V |
| 798.98 | 26.88 | 22.08 | 73.60 | 37.34 | 46.00 | -8.66 | V |
| 955.438 | 29.88 | 31.19 | 103.96 | 40.34 | 46.00 | -5.66 | V |



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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 6.4,6.5,6.6
 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.

7.11.1 E.U.T. Operation

Operating Environment:
 Temperature: 22.1 °C Humidity: 45.1 % RH Atmospheric Pressure: 1020 mbar

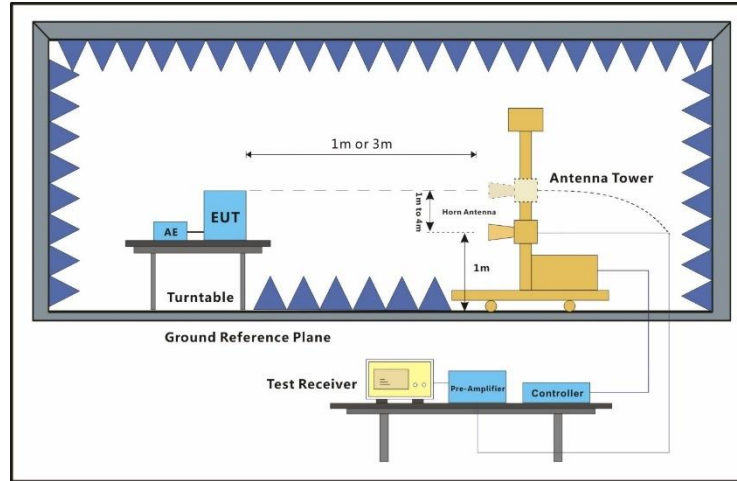
7.11.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Final test | 06 | TX_non-Hop mode(Left earbud)_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 | 07 | TX_non-Hop mode(Right earbud)_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. |
| Pre-scan | 08 | TX_non-Hop mode(Left earbud)+charging_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation and being charged. All modes have been tested and only the data of worst case is recorded in the report. |
| Pre-scan | 09 | TX_non-Hop mode(Right earbud)+charging_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation and being charged. All modes have been tested and only the data of worst case is recorded in the report. |



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 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

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 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, quasi-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:

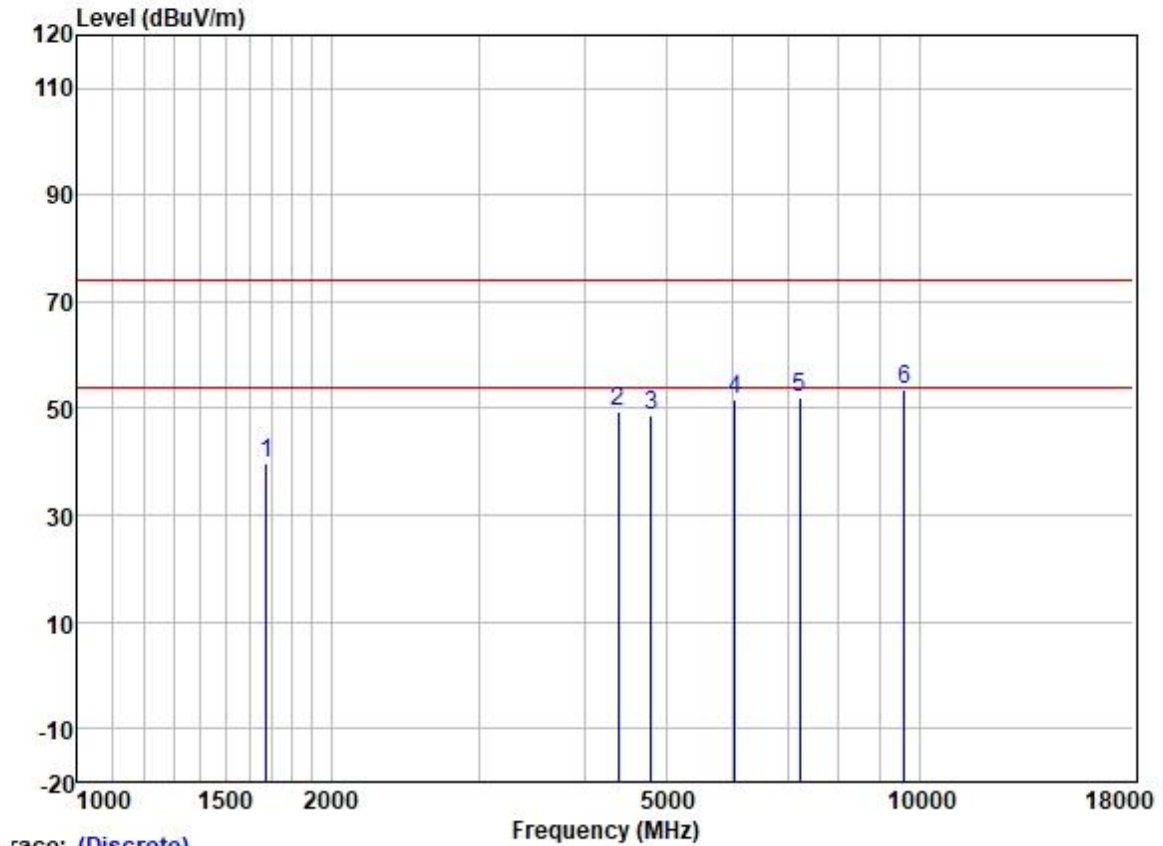
- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor
- 2) Scan from 1GHz to 25GHz, the disturbance above 18GHz 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) 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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Test Mode: 06; Polarity: Horizontal; Modulation:GFSK; ; Channel:Low



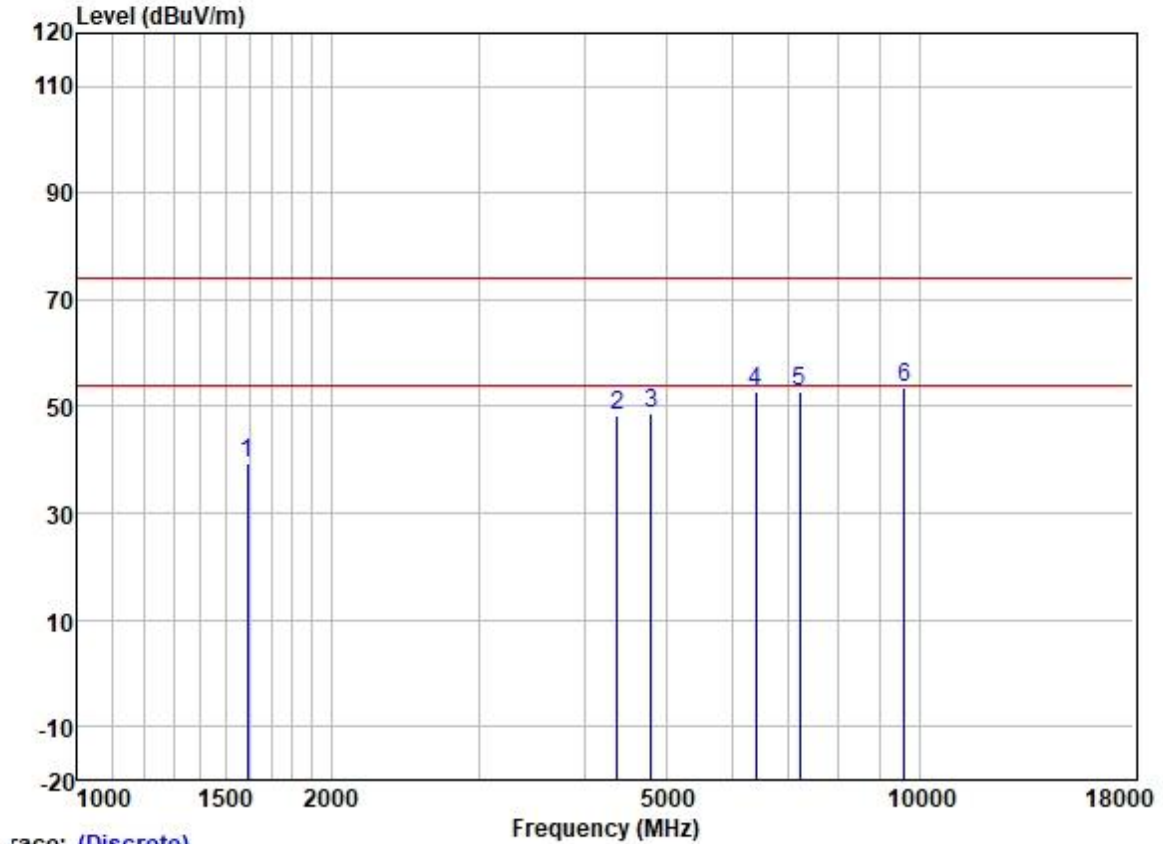
Trace: (Discrete)

| | Read | Antenna | Cable | Preamp | | Limit | Over | | | |
|---|----------|---------|--------|--------|--------|--------|--------|--------|------------|--------|
| | Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 1677.621 | 49.25 | 25.68 | 2.80 | 37.91 | 39.82 | 74.00 | -34.18 | HORIZONTAL | Peak |
| 2 | 4392.376 | 50.88 | 30.66 | 4.70 | 36.81 | 49.43 | 74.00 | -24.57 | HORIZONTAL | Peak |
| 3 | 4804.000 | 48.53 | 31.42 | 5.40 | 36.83 | 48.52 | 74.00 | -25.48 | HORIZONTAL | Peak |
| 4 | 6036.421 | 50.02 | 32.48 | 6.18 | 36.90 | 51.78 | 74.00 | -22.22 | HORIZONTAL | Peak |
| 5 | 7206.000 | 48.09 | 35.54 | 5.98 | 37.38 | 52.23 | 74.00 | -21.77 | HORIZONTAL | Peak |
| 6 | 9608.000 | 45.41 | 38.37 | 7.07 | 37.42 | 53.43 | 74.00 | -20.57 | HORIZONTAL | Peak |



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Test Mode: 06; Polarity: Vertical; Modulation:GFSK; ; Channel:Low



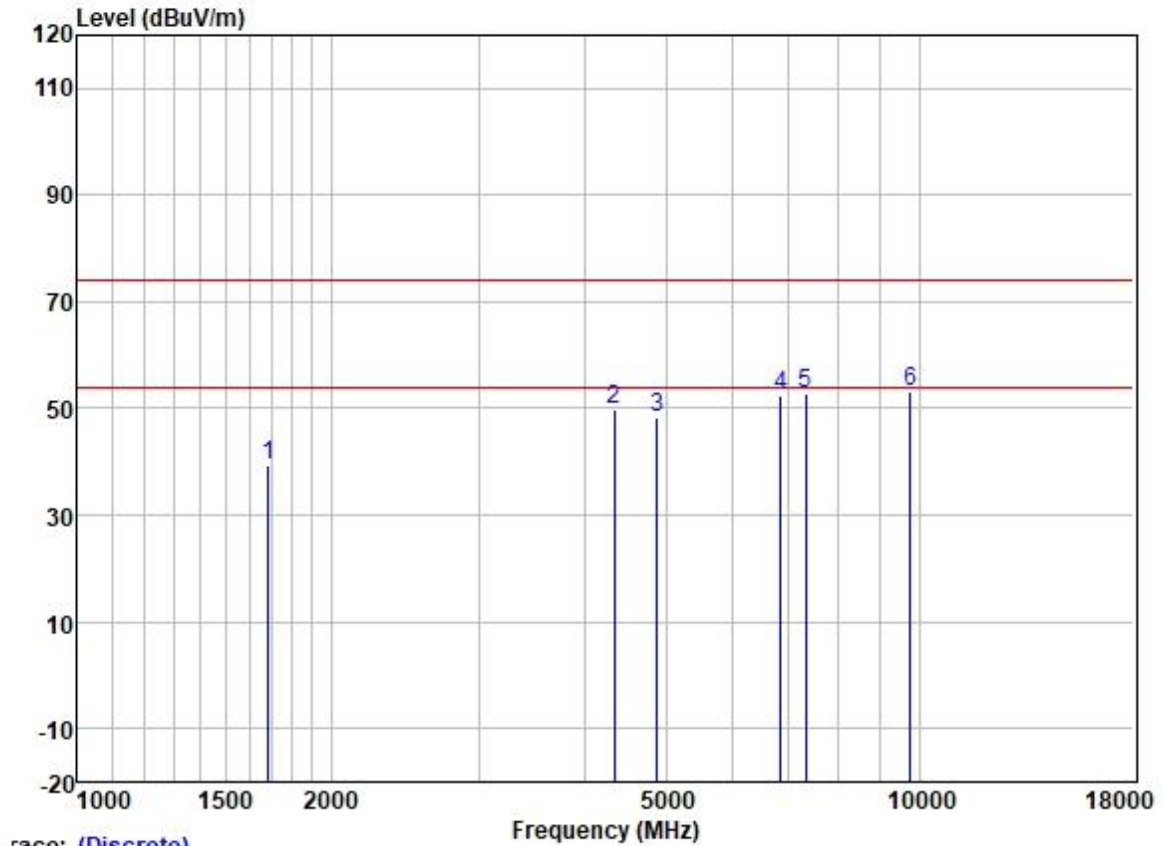
Trace: (Discrete)

| | Read | Antenna | Cable | Preamp | Limit | Over | | | |
|------|----------|---------|-------|--------|--------|--------|-------|-----------|---------------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 1592.571 | 48.79 | 25.57 | 2.80 | 37.98 | 39.18 | 74.00 | -34.82 | VERTICAL Peak |
| 2 | 4379.699 | 49.79 | 30.64 | 4.69 | 36.81 | 48.31 | 74.00 | -25.69 | VERTICAL Peak |
| 3 | 4804.000 | 48.73 | 31.42 | 5.40 | 36.83 | 48.72 | 74.00 | -25.28 | VERTICAL Peak |
| 4 | 6395.654 | 49.97 | 33.74 | 5.90 | 36.98 | 52.63 | 74.00 | -21.37 | VERTICAL Peak |
| 5 | 7206.000 | 48.57 | 35.54 | 5.98 | 37.38 | 52.71 | 74.00 | -21.29 | VERTICAL Peak |
| 6 | 9608.000 | 45.49 | 38.37 | 7.07 | 37.42 | 53.51 | 74.00 | -20.49 | VERTICAL Peak |



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Test Mode: 06; Polarity: Horizontal; Modulation:GFSK; ; Channel:middle



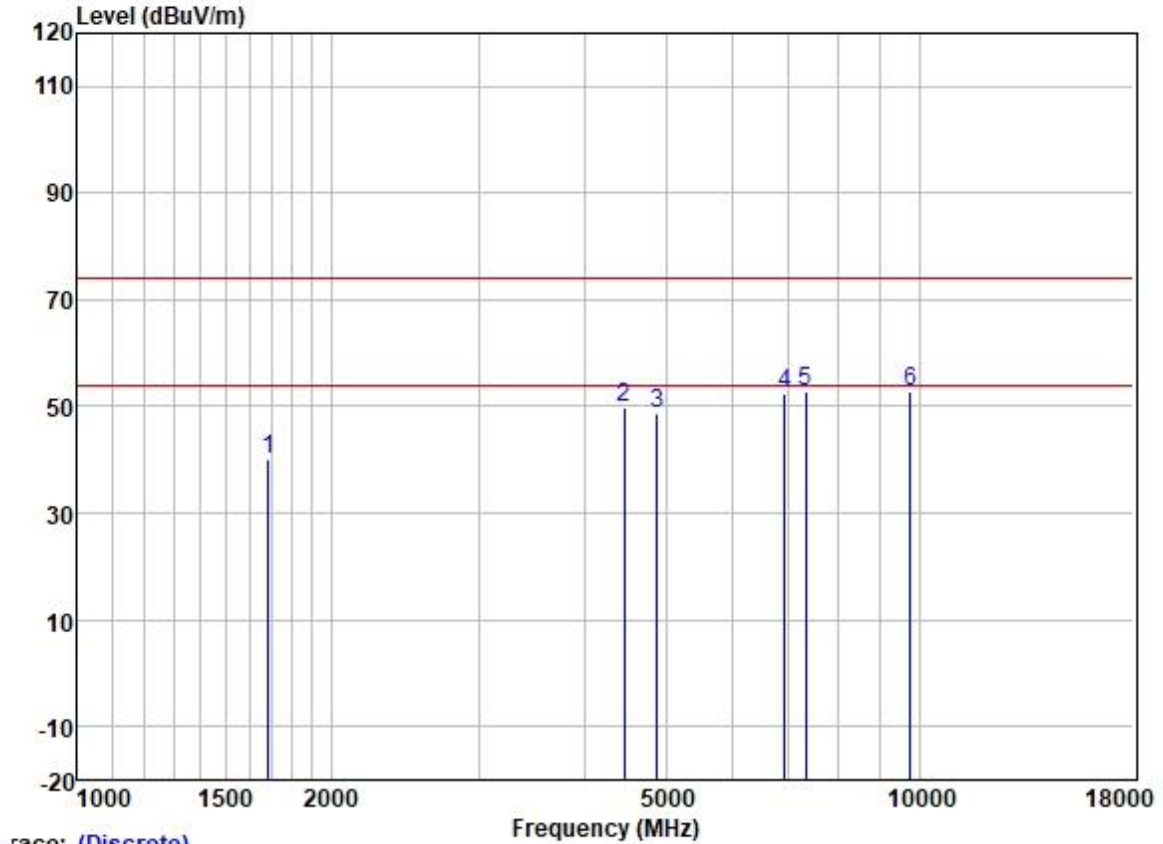
Trace: (Discrete)

| | Read | Antenna | Cable | Preamp | | Limit | Over | | |
|---|----------|---------|--------|--------|--------|--------|--------|--------|-----------------|
| | Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 1687.347 | 48.62 | 25.69 | 2.80 | 37.91 | 39.20 | 74.00 | -34.80 | HORIZONTAL Peak |
| 2 | 4341.886 | 51.53 | 30.57 | 4.67 | 36.81 | 49.96 | 74.00 | -24.04 | HORIZONTAL Peak |
| 3 | 4882.000 | 48.24 | 31.56 | 5.52 | 36.84 | 48.48 | 74.00 | -25.52 | HORIZONTAL Peak |
| 4 | 6855.063 | 48.91 | 34.78 | 5.82 | 37.15 | 52.36 | 74.00 | -21.64 | HORIZONTAL Peak |
| 5 | 7323.000 | 47.98 | 36.00 | 6.13 | 37.43 | 52.68 | 74.00 | -21.32 | HORIZONTAL Peak |
| 6 | 9764.000 | 45.22 | 38.50 | 7.02 | 37.41 | 53.33 | 74.00 | -20.67 | HORIZONTAL Peak |



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Test Mode: 06; Polarity: Vertical; Modulation:GFSK; ; Channel:middle



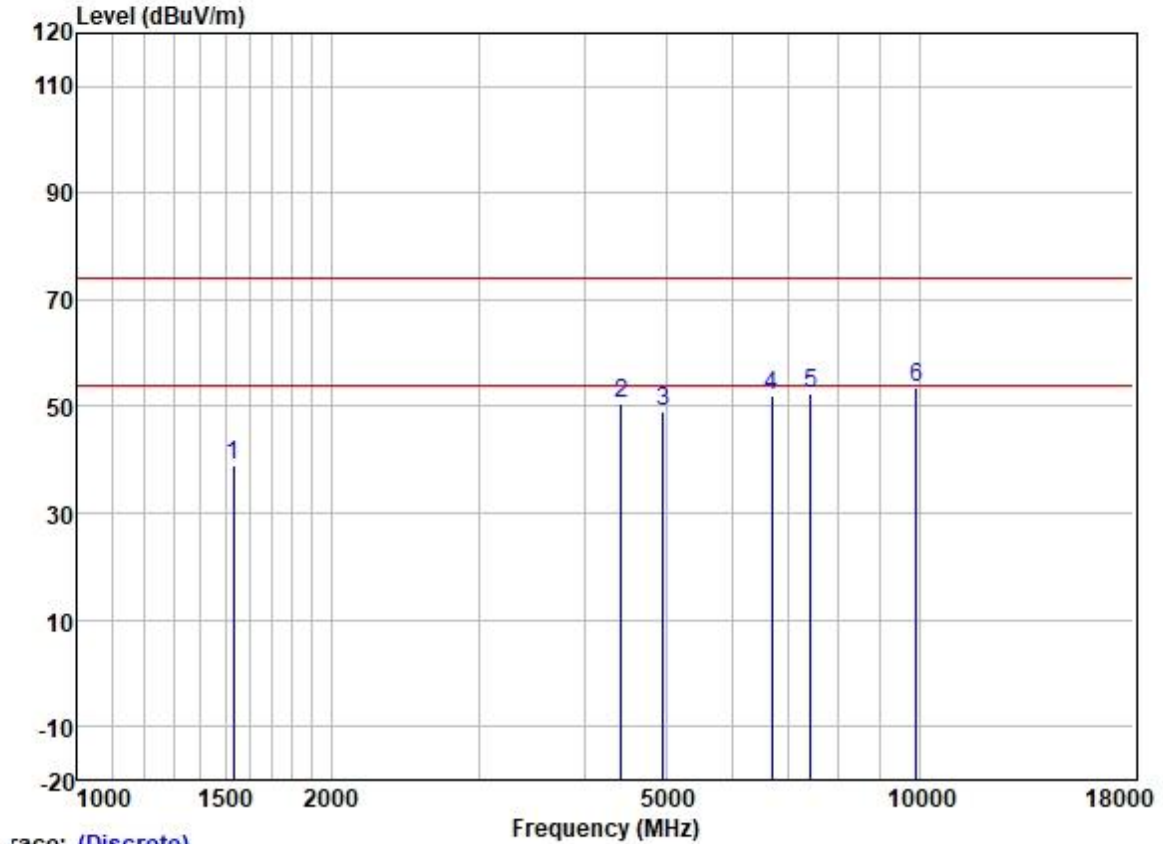
Trace: (Discrete)

| | Read | Antenna | Cable | Preamp | | Limit | Over | | | |
|---|----------|---------|--------|--------|--------|--------|--------|--------|-----------|--------|
| | Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 1687.347 | 49.66 | 25.69 | 2.80 | 37.91 | 40.24 | 74.00 | -33.76 | VERTICAL | Peak |
| 2 | 4456.315 | 51.13 | 30.75 | 4.88 | 36.81 | 49.95 | 74.00 | -24.05 | VERTICAL | Peak |
| 3 | 4882.000 | 48.62 | 31.56 | 5.52 | 36.84 | 48.86 | 74.00 | -25.14 | VERTICAL | Peak |
| 4 | 6914.763 | 48.85 | 34.89 | 5.81 | 37.19 | 52.36 | 74.00 | -21.64 | VERTICAL | Peak |
| 5 | 7323.000 | 48.24 | 36.00 | 6.13 | 37.43 | 52.94 | 74.00 | -21.06 | VERTICAL | Peak |
| 6 | 9764.000 | 44.87 | 38.50 | 7.02 | 37.41 | 52.98 | 74.00 | -21.02 | VERTICAL | Peak |



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Test Mode: 06; Polarity: Horizontal; Modulation:GFSK; ; Channel:High



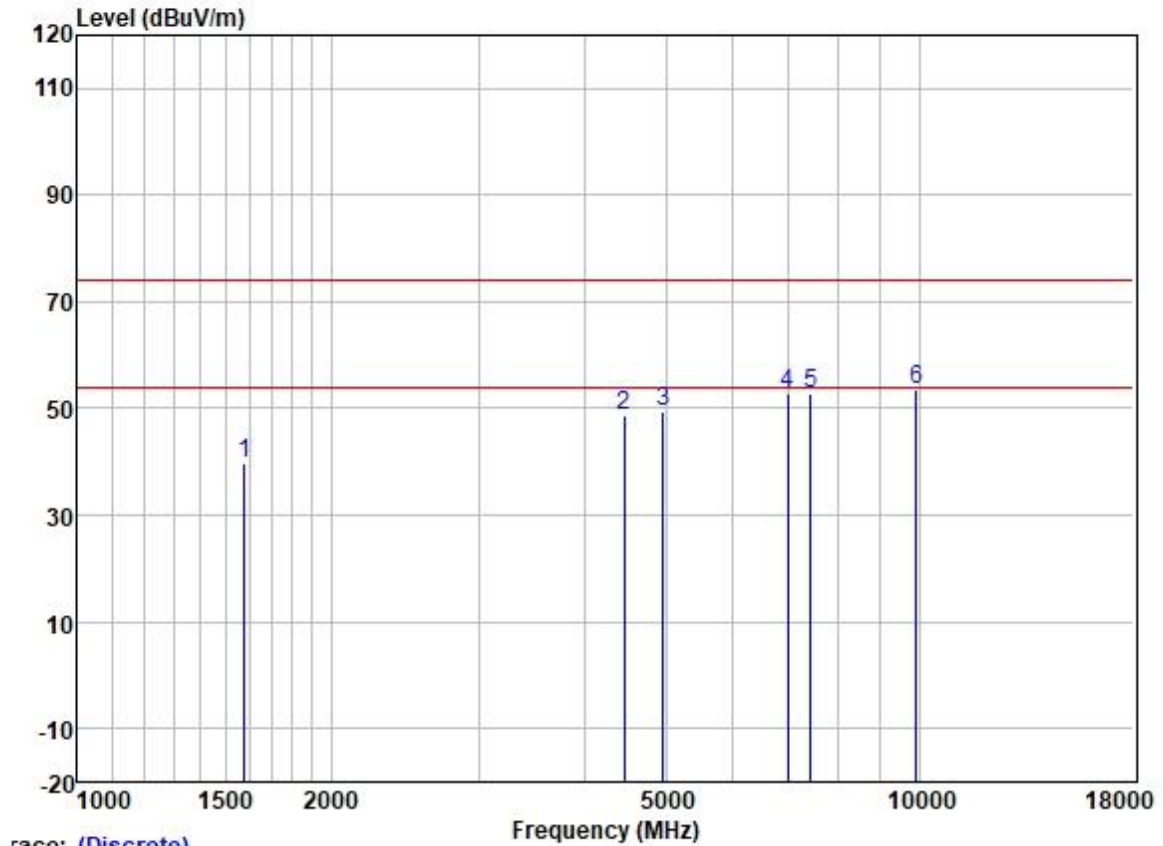
Trace: (Discrete)

| | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|-----------|---------------|--------------|-------------|---------------|--------|------------|------------|------------|--------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 1533.841 | 48.73 | 25.52 | 2.80 | 38.07 | 38.98 | 74.00 | -35.02 | HORIZONTAL | Peak |
| 2 | 4430.628 | 51.95 | 30.72 | 4.78 | 36.81 | 50.64 | 74.00 | -23.36 | HORIZONTAL | Peak |
| 3 | 4960.000 | 48.67 | 31.65 | 5.65 | 36.84 | 49.13 | 74.00 | -24.87 | HORIZONTAL | Peak |
| 4 | 6679.040 | 48.99 | 34.33 | 5.83 | 37.07 | 52.08 | 74.00 | -21.92 | HORIZONTAL | Peak |
| 5 | 7440.000 | 47.44 | 36.27 | 6.22 | 37.47 | 52.46 | 74.00 | -21.54 | HORIZONTAL | Peak |
| 6 | 9920.000 | 45.48 | 38.65 | 6.96 | 37.40 | 53.69 | 74.00 | -20.31 | HORIZONTAL | Peak |



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Test Mode: 06; Polarity: Vertical; Modulation:GFSK; ; Channel:High



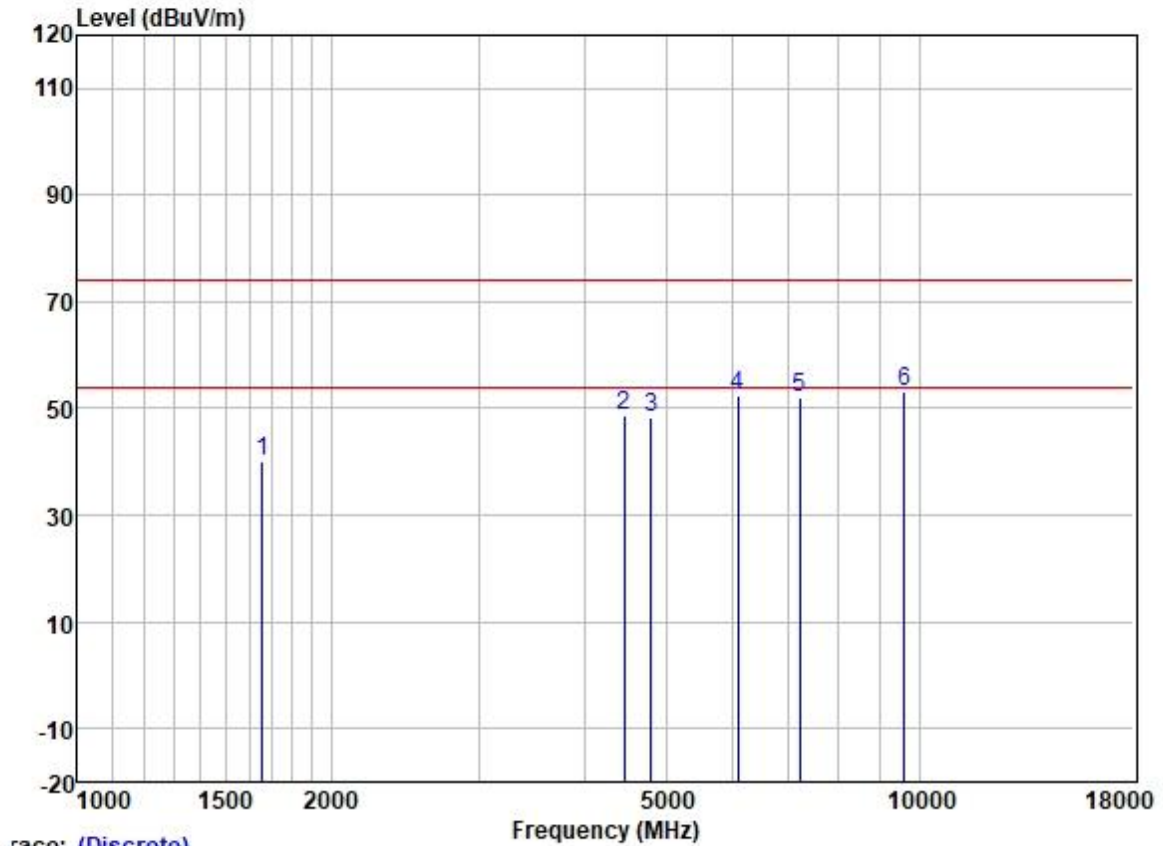
Trace: (Discrete)

| | Read | Antenna | Cable | Preamp | | Limit | Over | | | |
|---|----------|---------|--------|--------|--------|--------|--------|--------|-----------|--------|
| | Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 1578.822 | 49.37 | 25.56 | 2.80 | 38.00 | 39.73 | 74.00 | -34.27 | VERTICAL | Peak |
| 2 | 4456.315 | 49.85 | 30.75 | 4.88 | 36.81 | 48.67 | 74.00 | -25.33 | VERTICAL | Peak |
| 3 | 4960.000 | 49.04 | 31.65 | 5.65 | 36.84 | 49.50 | 74.00 | -24.50 | VERTICAL | Peak |
| 4 | 6974.982 | 49.40 | 34.97 | 5.81 | 37.23 | 52.95 | 74.00 | -21.05 | VERTICAL | Peak |
| 5 | 7440.000 | 47.84 | 36.27 | 6.22 | 37.47 | 52.86 | 74.00 | -21.14 | VERTICAL | Peak |
| 6 | 9920.000 | 45.47 | 38.65 | 6.96 | 37.40 | 53.68 | 74.00 | -20.32 | VERTICAL | Peak |



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Test Mode: 07; Polarity: Horizontal; Modulation:GFSK; ; Channel:Low



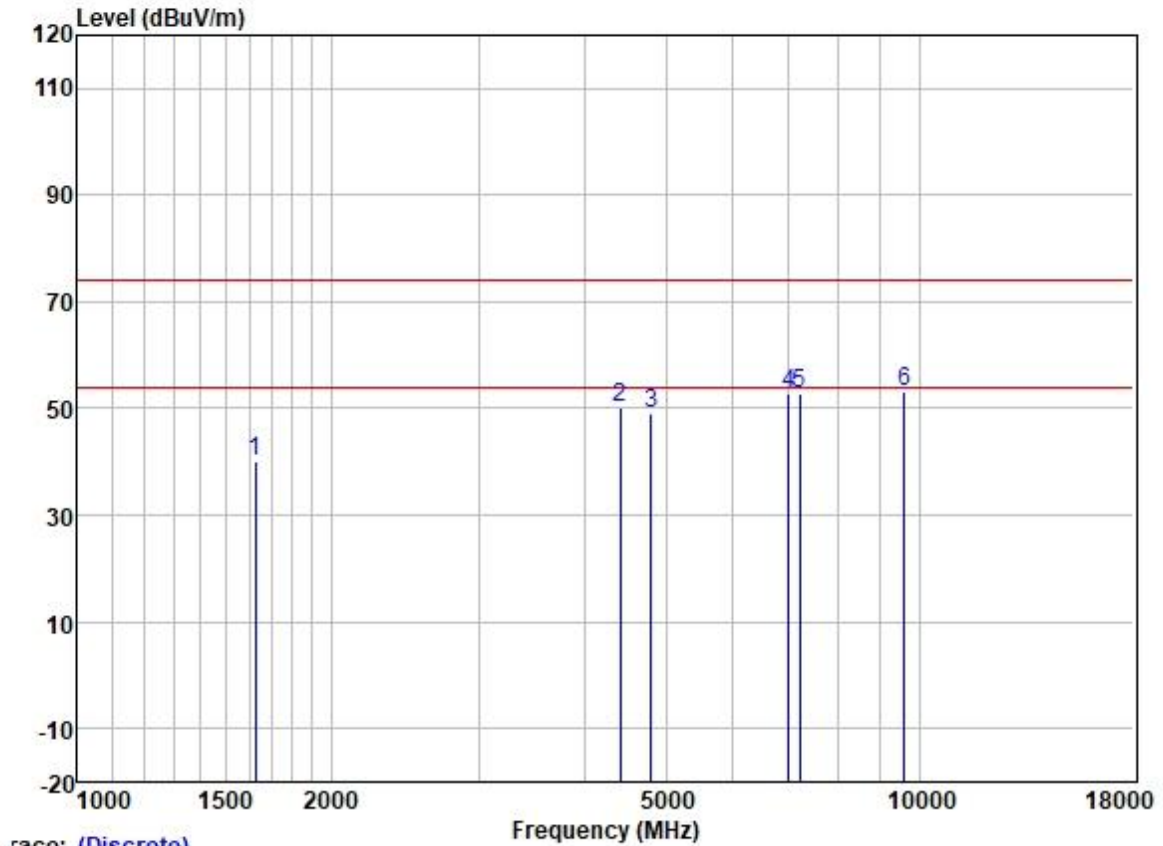
Trace: (Discrete)

| | Read | Antenna | Cable | Preamp | | Limit | Over | | | |
|---|----------|---------|--------|--------|--------|--------|--------|--------|------------|--------|
| | Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 1658.337 | 49.73 | 25.65 | 2.80 | 37.93 | 40.25 | 74.00 | -33.75 | HORIZONTAL | Peak |
| 2 | 4456.315 | 49.75 | 30.75 | 4.88 | 36.81 | 48.57 | 74.00 | -25.43 | HORIZONTAL | Peak |
| 3 | 4804.000 | 48.38 | 31.42 | 5.40 | 36.83 | 48.37 | 74.00 | -25.63 | HORIZONTAL | Peak |
| 4 | 6088.991 | 50.50 | 32.61 | 6.15 | 36.92 | 52.34 | 74.00 | -21.66 | HORIZONTAL | Peak |
| 5 | 7206.000 | 47.86 | 35.54 | 5.98 | 37.38 | 52.00 | 74.00 | -22.00 | HORIZONTAL | Peak |
| 6 | 9608.000 | 44.99 | 38.37 | 7.07 | 37.42 | 53.01 | 74.00 | -20.99 | HORIZONTAL | Peak |



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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; ; Channel:Low



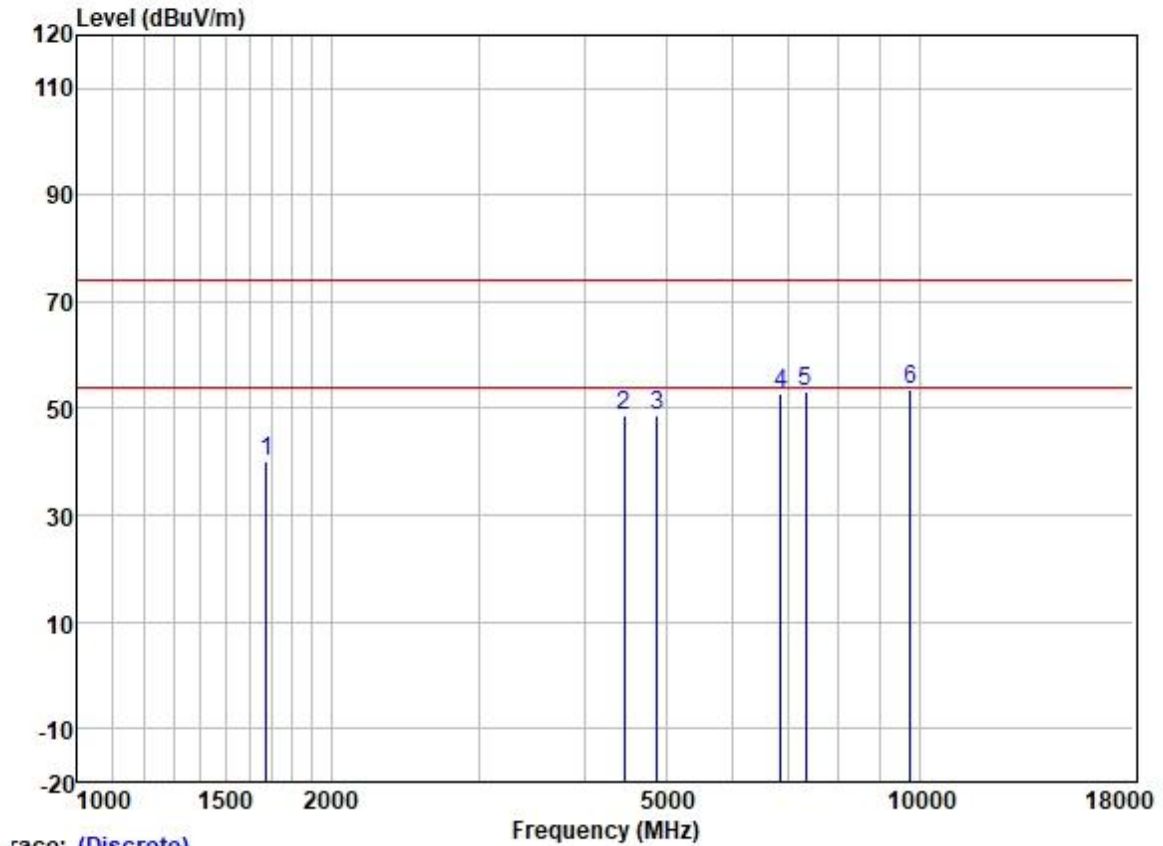
Trace: (Discrete)

| | Read | Antenna | Cable | Preamp | | Limit | Over | | | |
|---|----------|---------|--------|--------|--------|--------|--------|--------|-----------|--------|
| | Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 1625.121 | 49.79 | 25.61 | 2.80 | 37.95 | 40.25 | 74.00 | -33.75 | VERTICAL | Peak |
| 2 | 4417.841 | 51.53 | 30.70 | 4.74 | 36.81 | 50.16 | 74.00 | -23.84 | VERTICAL | Peak |
| 3 | 4804.000 | 48.89 | 31.42 | 5.40 | 36.83 | 48.88 | 74.00 | -25.12 | VERTICAL | Peak |
| 4 | 6995.172 | 49.26 | 35.00 | 5.81 | 37.25 | 52.82 | 74.00 | -21.18 | VERTICAL | Peak |
| 5 | 7206.000 | 48.74 | 35.54 | 5.98 | 37.38 | 52.88 | 74.00 | -21.12 | VERTICAL | Peak |
| 6 | 9608.000 | 45.18 | 38.37 | 7.07 | 37.42 | 53.20 | 74.00 | -20.80 | VERTICAL | Peak |



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Test Mode: 07; Polarity: Horizontal; Modulation:GFSK; ; Channel:middle



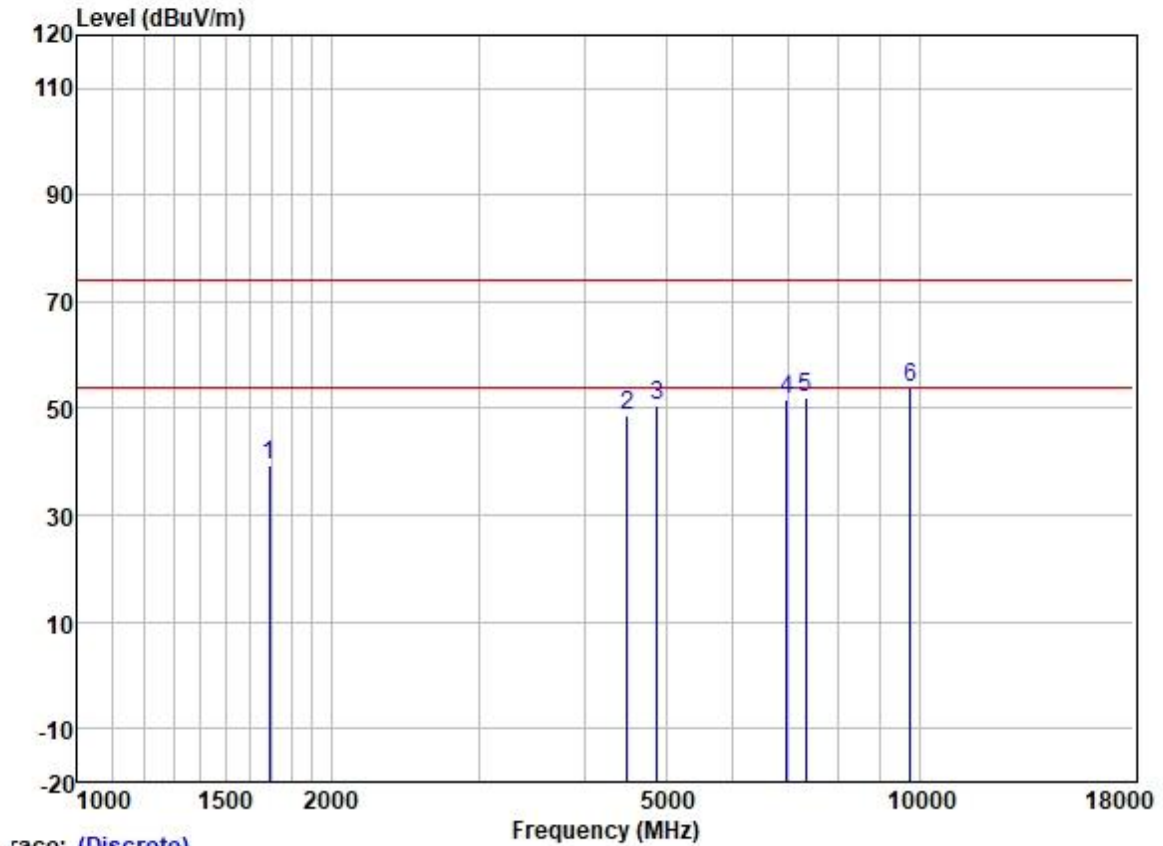
Trace: (Discrete)

| | Read | Antenna | Cable | Preamp | | Limit | Over | | | |
|---|----------|---------|--------|--------|--------|--------|--------|--------|------------|--------|
| | Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 1677.621 | 49.37 | 25.68 | 2.80 | 37.91 | 39.94 | 74.00 | -34.06 | HORIZONTAL | Peak |
| 2 | 4456.315 | 49.81 | 30.75 | 4.88 | 36.81 | 48.63 | 74.00 | -25.37 | HORIZONTAL | Peak |
| 3 | 4880.000 | 48.52 | 31.54 | 5.50 | 36.84 | 48.72 | 74.00 | -25.28 | HORIZONTAL | Peak |
| 4 | 6855.063 | 49.47 | 34.78 | 5.82 | 37.15 | 52.92 | 74.00 | -21.08 | HORIZONTAL | Peak |
| 5 | 7320.000 | 48.36 | 36.00 | 6.13 | 37.43 | 53.06 | 74.00 | -20.94 | HORIZONTAL | Peak |
| 6 | 9760.000 | 45.58 | 38.50 | 7.02 | 37.41 | 53.69 | 74.00 | -20.31 | HORIZONTAL | Peak |



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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; ; Channel:middle



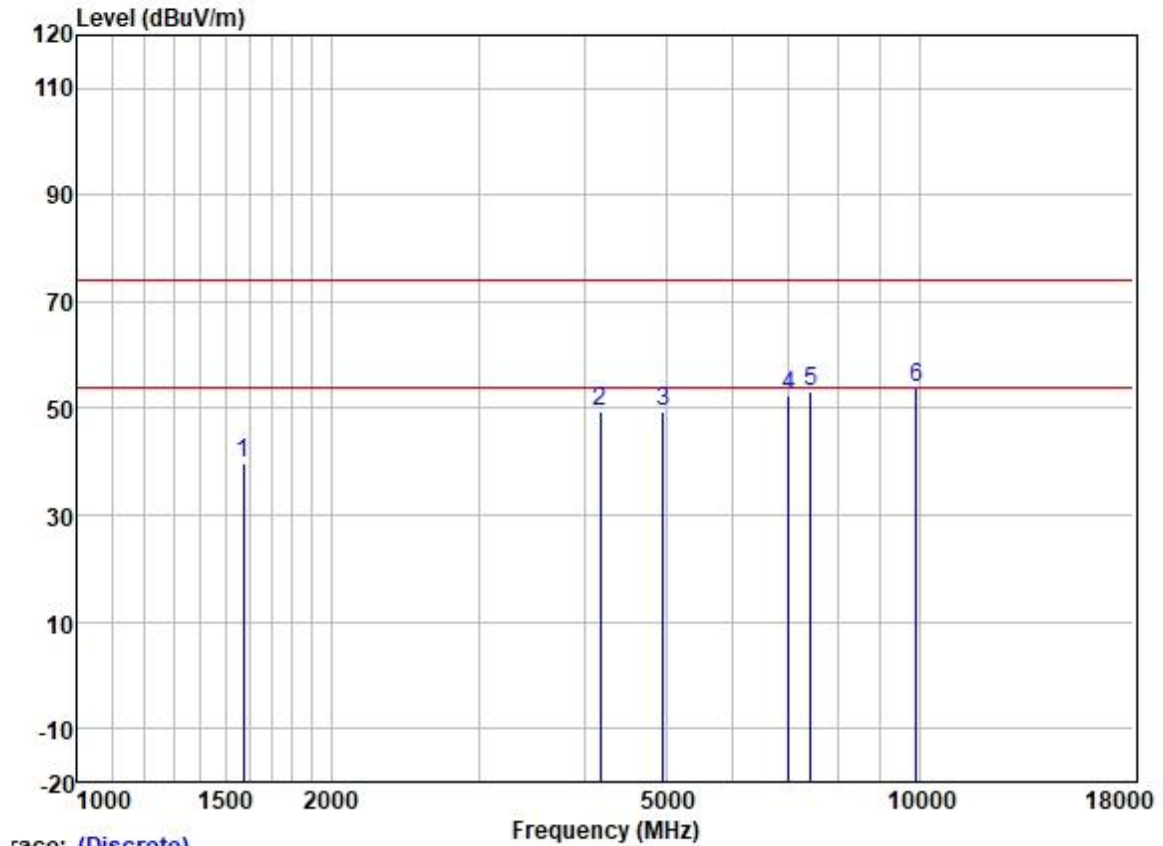
Trace: (Discrete)

| | Read | Antenna | Cable | Preamp | | Limit | Over | | | |
|---|----------|---------|--------|--------|--------|--------|--------|--------|-----------|--------|
| | Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 1692.231 | 48.69 | 25.70 | 2.80 | 37.89 | 39.30 | 74.00 | -34.70 | VERTICAL | Peak |
| 2 | 4495.125 | 49.61 | 30.80 | 5.05 | 36.82 | 48.64 | 74.00 | -25.36 | VERTICAL | Peak |
| 3 | 4880.000 | 50.41 | 31.54 | 5.50 | 36.84 | 50.61 | 74.00 | -23.39 | VERTICAL | Peak |
| 4 | 6954.852 | 48.20 | 34.95 | 5.81 | 37.21 | 51.75 | 74.00 | -22.25 | VERTICAL | Peak |
| 5 | 7320.000 | 47.37 | 36.00 | 6.13 | 37.43 | 52.07 | 74.00 | -21.93 | VERTICAL | Peak |
| 6 | 9760.000 | 45.74 | 38.50 | 7.02 | 37.41 | 53.85 | 74.00 | -20.15 | VERTICAL | Peak |



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Test Mode: 07; Polarity: Horizontal; Modulation:GFSK; ; Channel:High



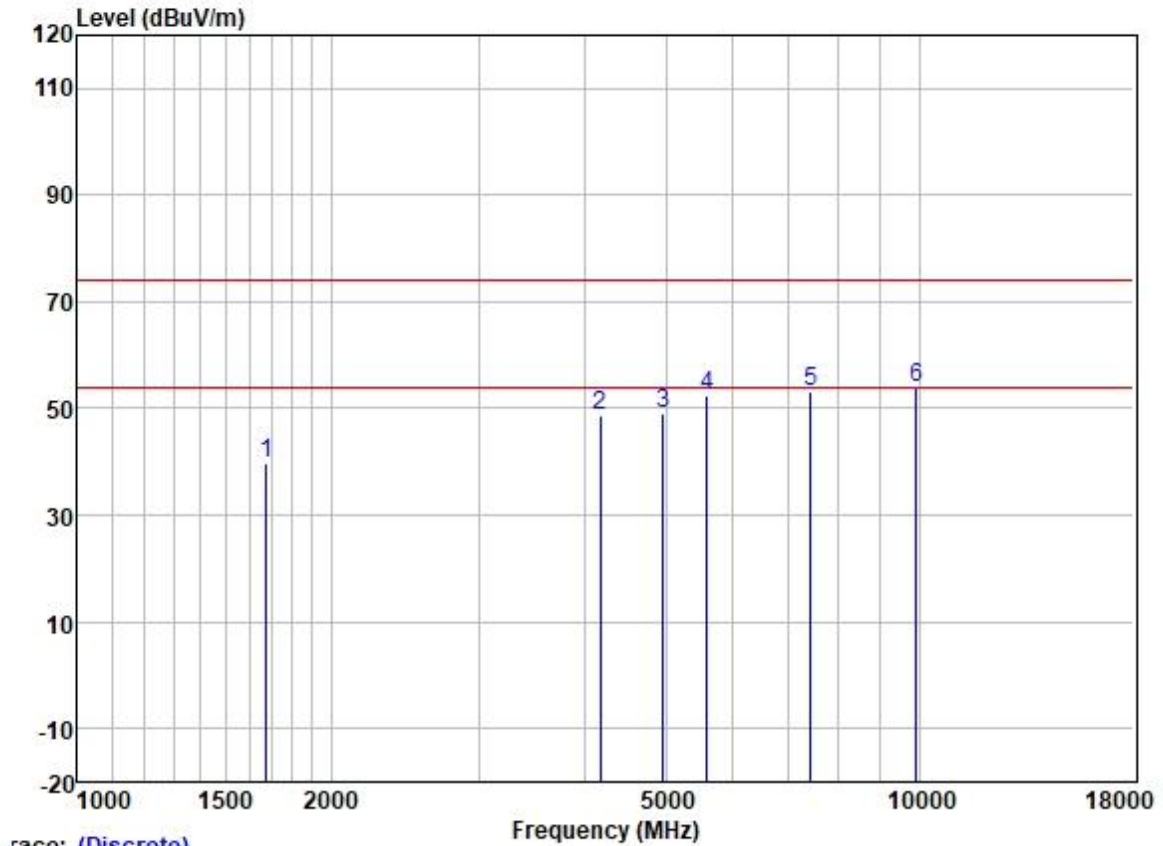
Trace: (Discrete)

| | Read | Antenna | Cable | Preamp | | Limit | Over | | |
|------|----------|---------|-------|--------|--------|--------|-------|-----------|-----------------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 1574.265 | 49.28 | 25.56 | 2.80 | 38.00 | 39.64 | 74.00 | -34.36 | HORIZONTAL Peak |
| 2 | 4181.768 | 51.40 | 30.12 | 4.60 | 36.80 | 49.32 | 74.00 | -24.68 | HORIZONTAL Peak |
| 3 | 4960.000 | 49.00 | 31.65 | 5.65 | 36.84 | 49.46 | 74.00 | -24.54 | HORIZONTAL Peak |
| 4 | 6995.172 | 48.97 | 35.00 | 5.81 | 37.25 | 52.53 | 74.00 | -21.47 | HORIZONTAL Peak |
| 5 | 7440.000 | 48.21 | 36.27 | 6.22 | 37.47 | 53.23 | 74.00 | -20.77 | HORIZONTAL Peak |
| 6 | 9920.000 | 45.69 | 38.65 | 6.96 | 37.40 | 53.90 | 74.00 | -20.10 | HORIZONTAL Peak |



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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; ; Channel:High



Trace: (Discrete)

| | Read | Antenna | Cable | Preamp | | Limit | Over | | | |
|---|----------|---------|--------|--------|--------|--------|--------|--------|-----------|--------|
| | Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 1677.621 | 49.24 | 25.68 | 2.80 | 37.91 | 39.81 | 74.00 | -34.19 | VERTICAL | Peak |
| 2 | 4181.768 | 50.59 | 30.12 | 4.60 | 36.80 | 48.51 | 74.00 | -25.49 | VERTICAL | Peak |
| 3 | 4960.000 | 48.63 | 31.65 | 5.65 | 36.84 | 49.09 | 74.00 | -24.91 | VERTICAL | Peak |
| 4 | 5599.412 | 51.05 | 31.89 | 6.30 | 36.89 | 52.35 | 74.00 | -21.65 | VERTICAL | Peak |
| 5 | 7440.000 | 48.17 | 36.27 | 6.22 | 37.47 | 53.19 | 74.00 | -20.81 | VERTICAL | Peak |
| 6 | 9920.000 | 45.74 | 38.65 | 6.96 | 37.40 | 53.95 | 74.00 | -20.05 | VERTICAL | Peak |



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8 Test Setup Photo

Refer to Appendix_SetupPhoto for GZCR2112021536AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for GZCR2112021536AT



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10 Appendix

For right earbud:

1. Bandwidth

1.1 20dB BW

1.1.1 Test Result

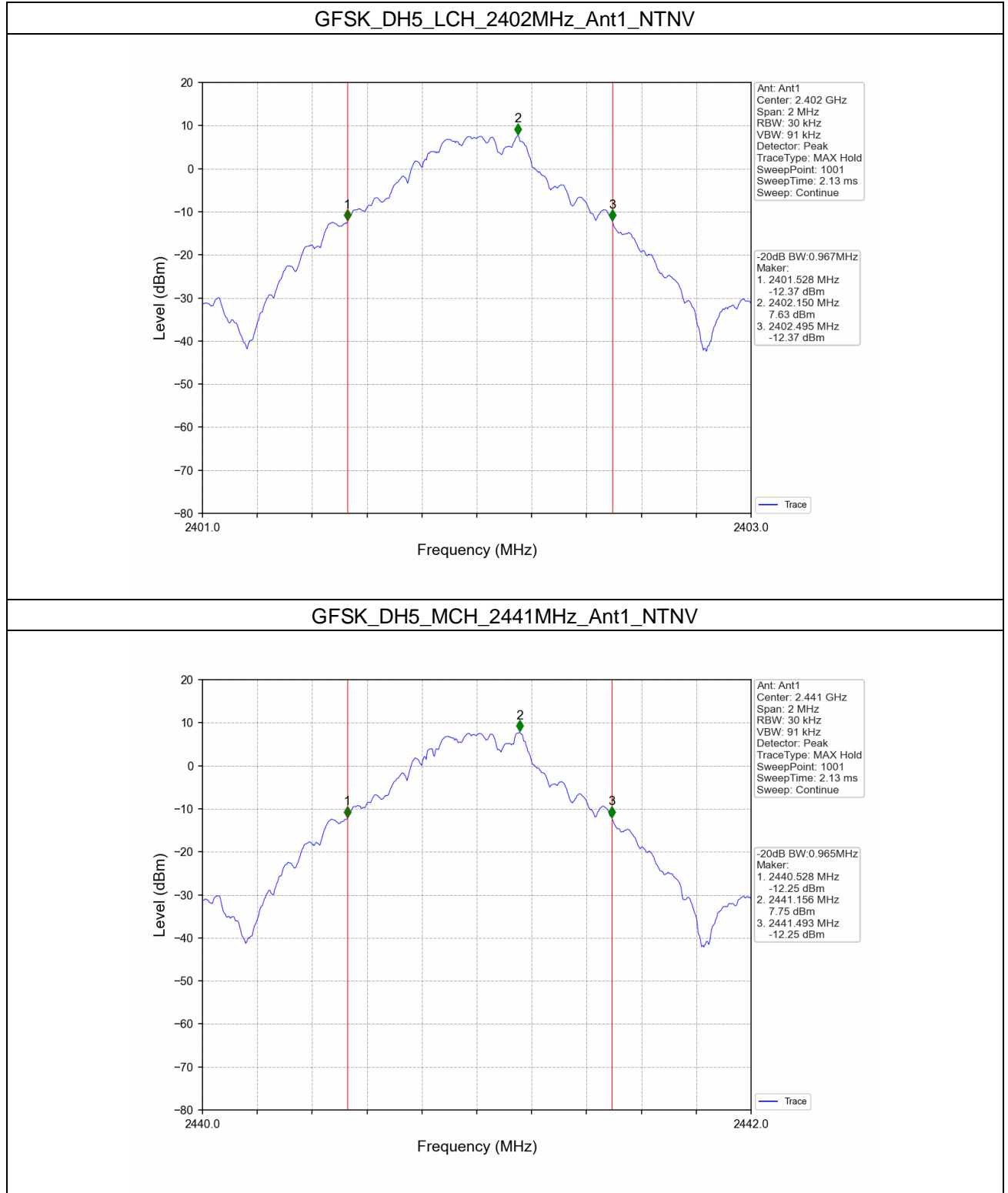
| Mode | TX Type | Frequency (MHz) | Packet Type | Ant | 20dB Bandwidth (MHz) | Verdict |
|-----------|---------|-----------------|-------------|-----|----------------------|---------|
| | | | | | Result | |
| GFSK | SISO | 2402 | DH5 | 1 | 0.967 | Pass |
| | | 2441 | DH5 | 1 | 0.965 | Pass |
| | | 2480 | DH5 | 1 | 0.966 | Pass |
| Pi/4DQPSK | SISO | 2402 | 2DH5 | 1 | 1.281 | Pass |
| | | 2441 | 2DH5 | 1 | 1.286 | Pass |
| | | 2480 | 2DH5 | 1 | 1.288 | Pass |
| 8DPSK | SISO | 2402 | 3DH5 | 1 | 1.294 | Pass |
| | | 2441 | 3DH5 | 1 | 1.298 | Pass |
| | | 2480 | 3DH5 | 1 | 1.300 | Pass |



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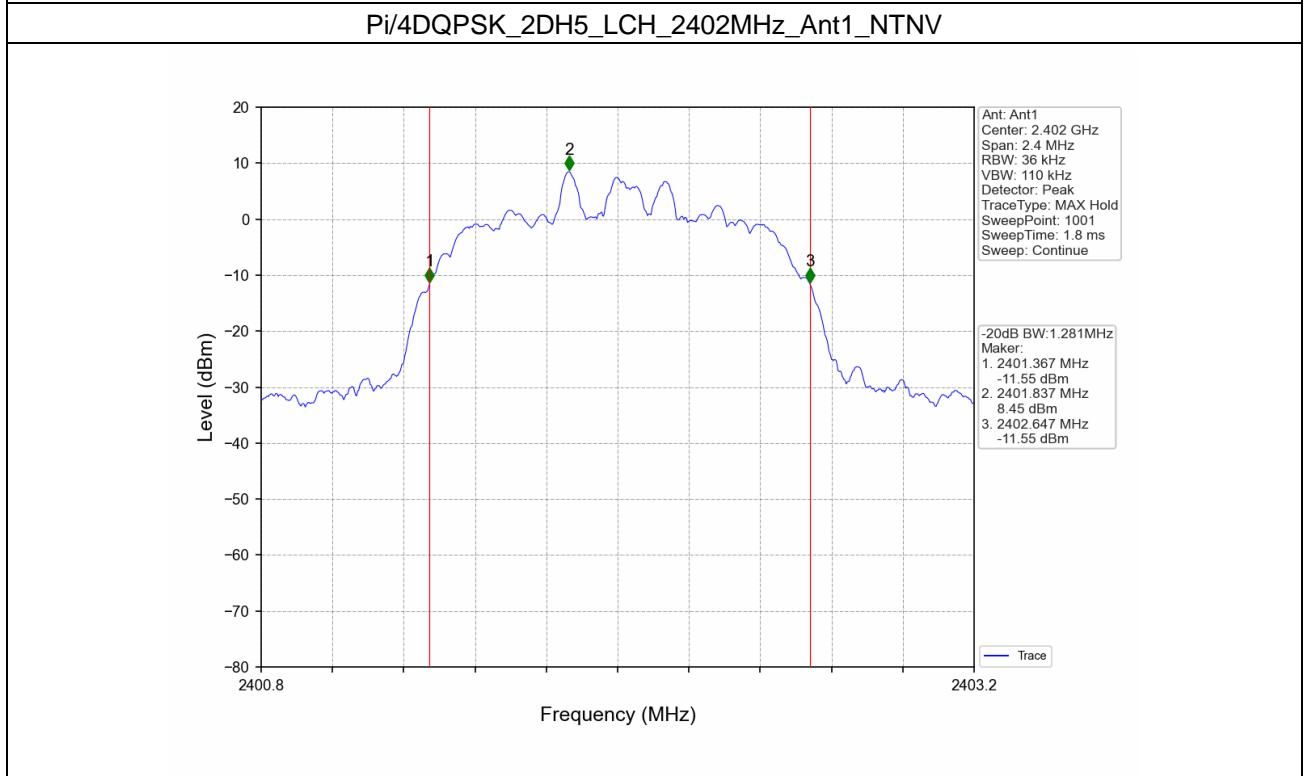
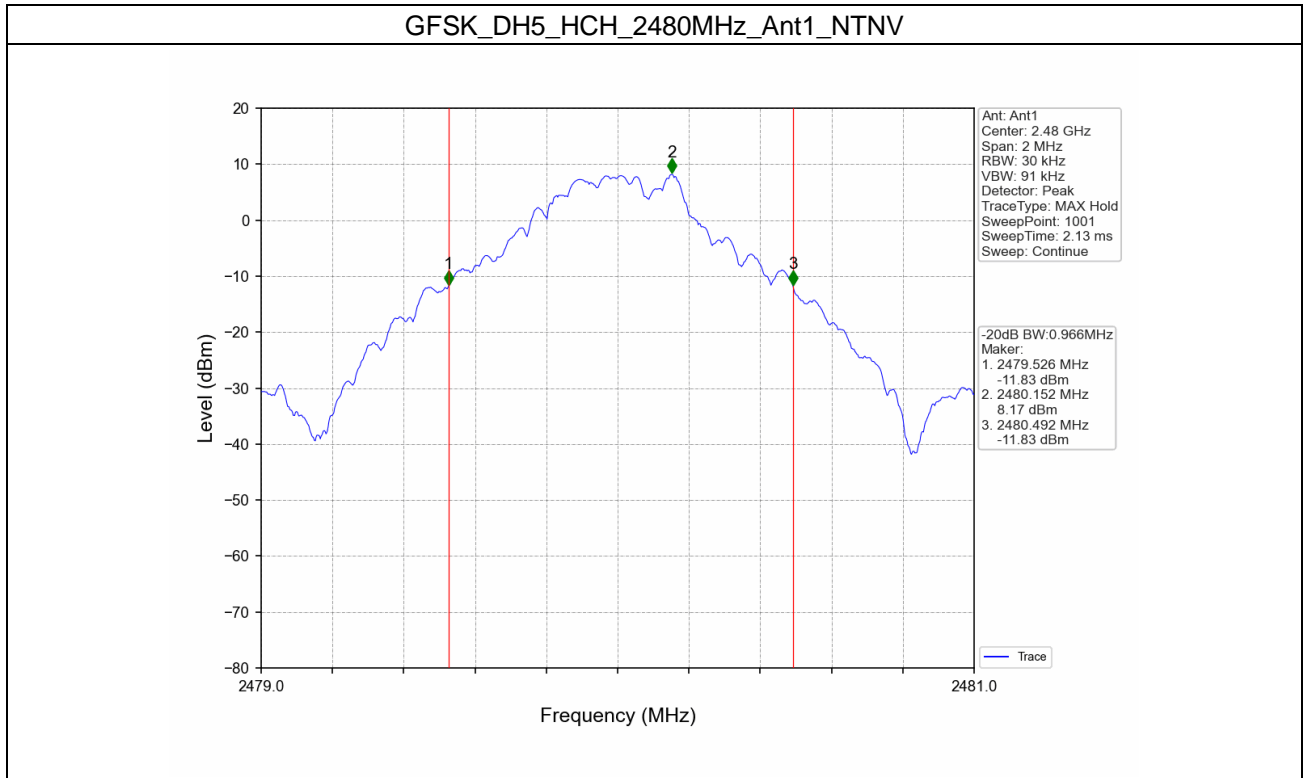
1.2.2 Test Graph



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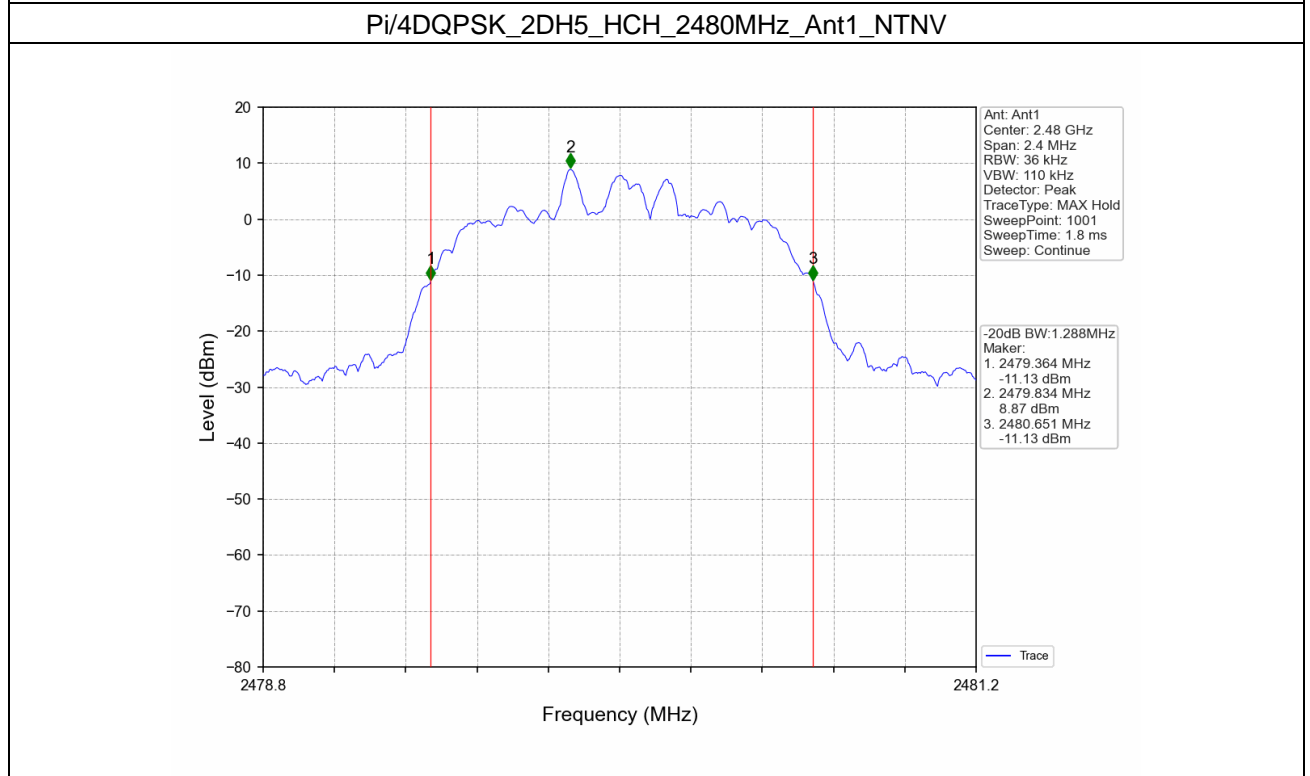
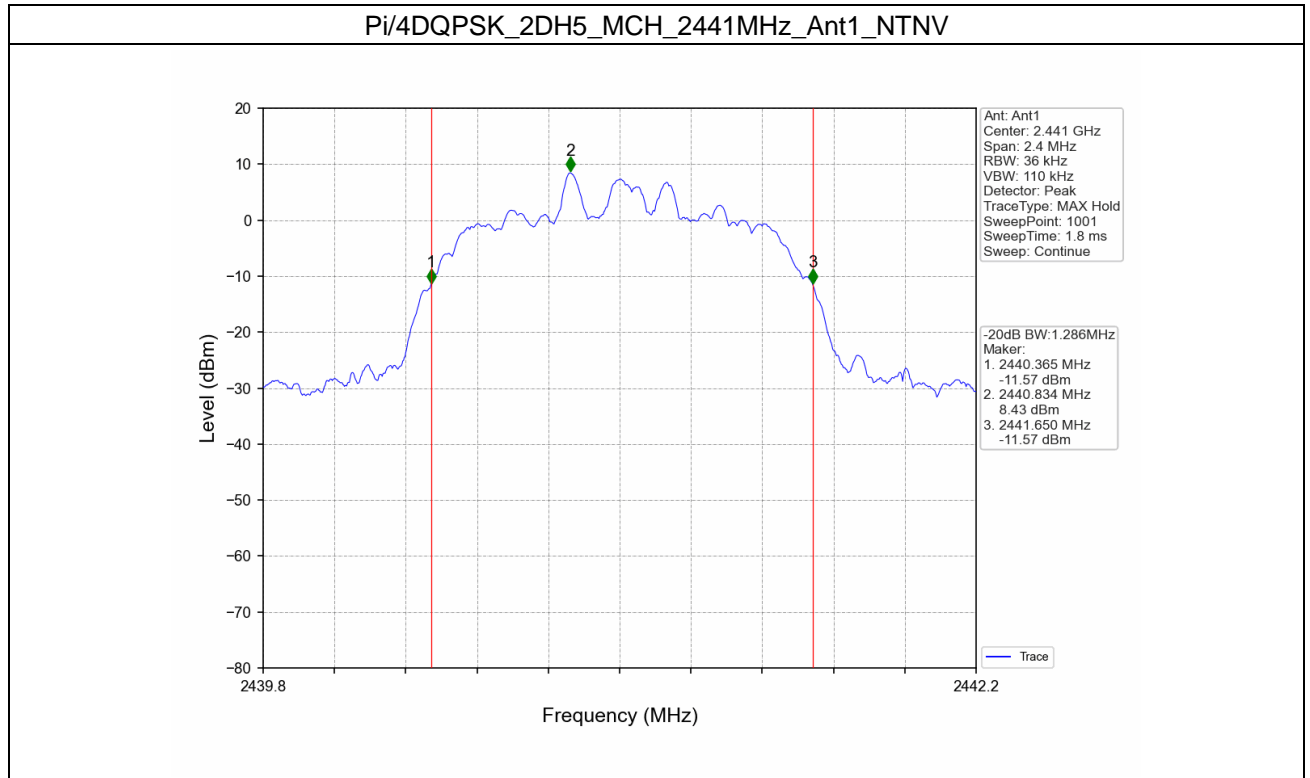
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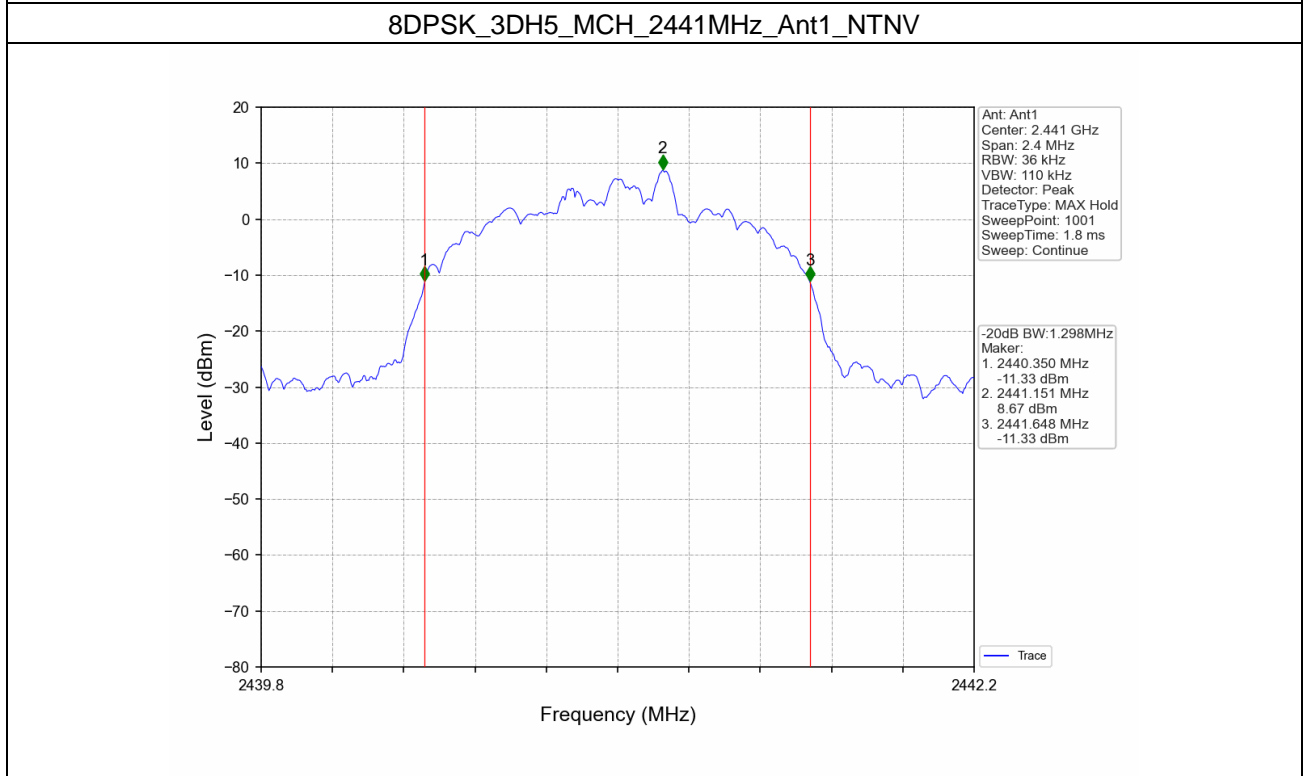
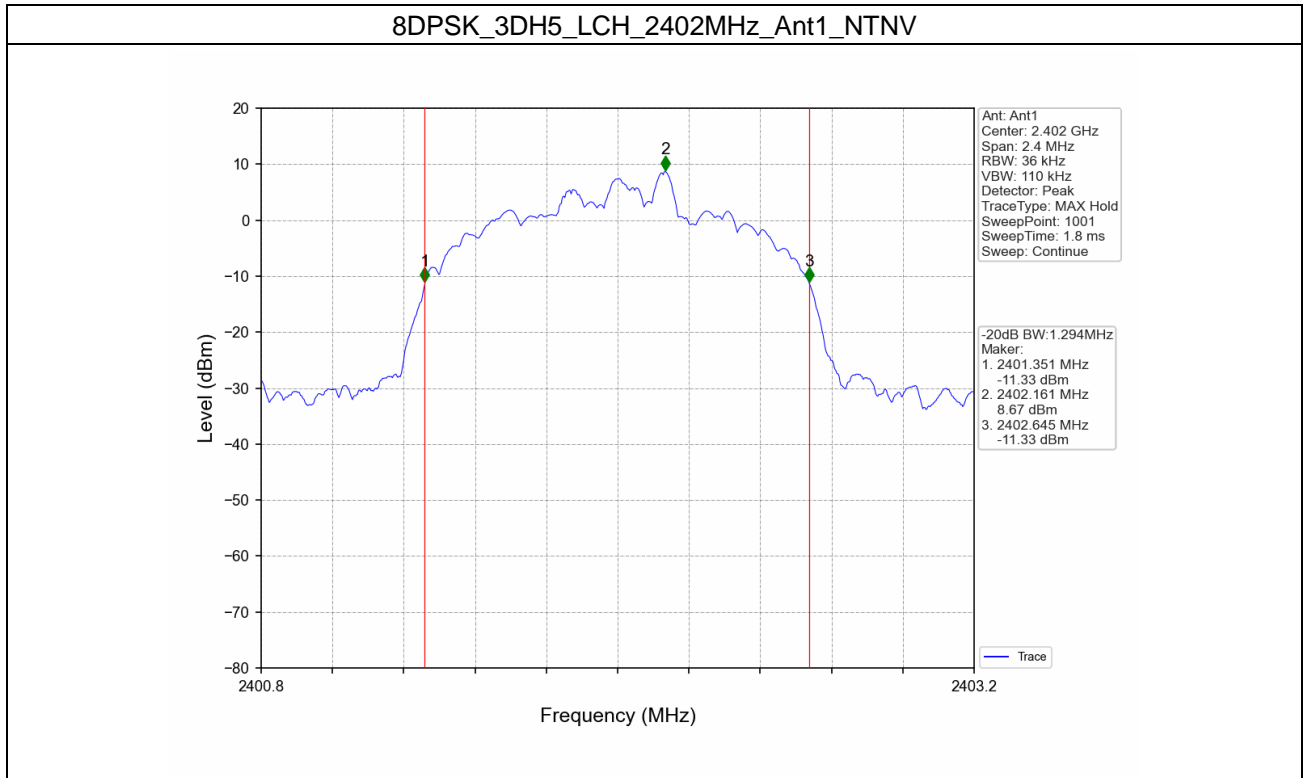
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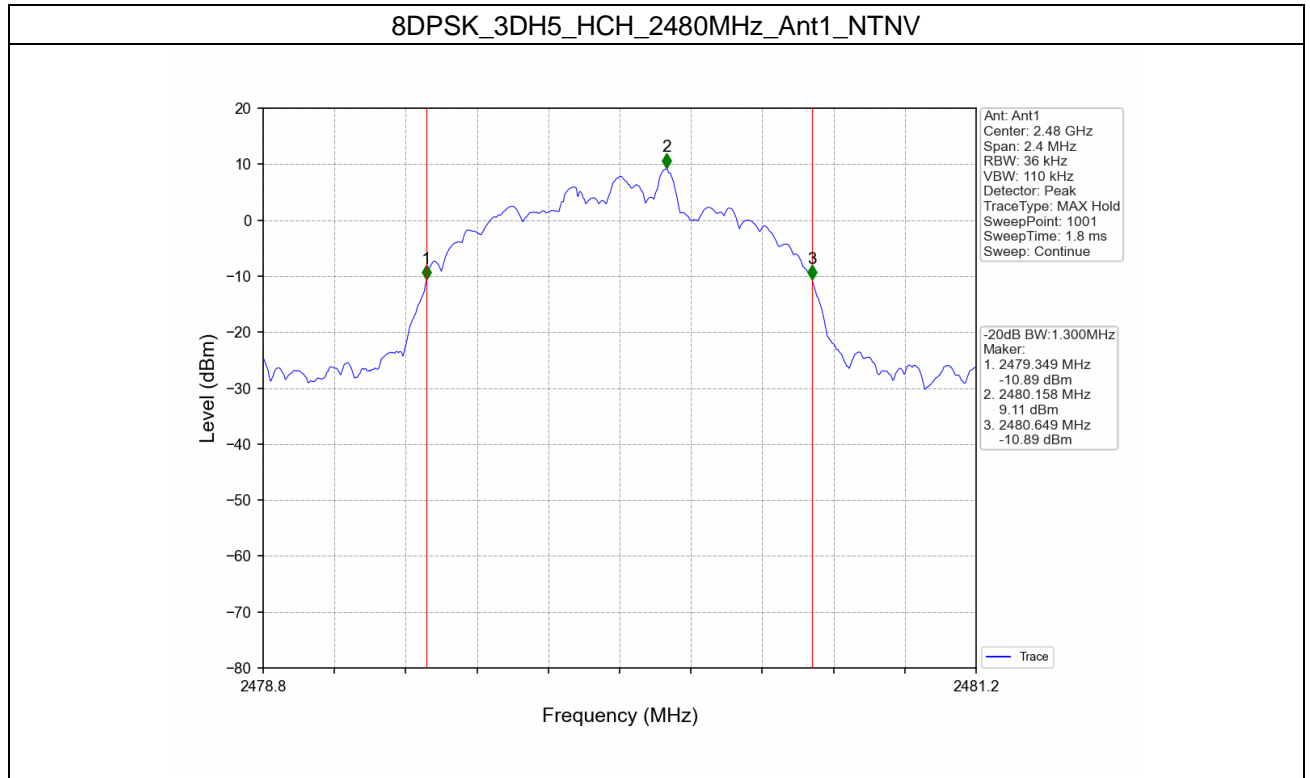
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2. Maximum Conducted Output Power

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 | 9.27 | <=30 | Pass |
| | | 2441 | DH5 | 9.43 | <=30 | Pass |
| | | 2480 | DH5 | 9.87 | <=30 | Pass |
| Pi/4DQPSK | SISO | 2402 | 2DH5 | 9.26 | <=20.97 | Pass |
| | | 2441 | 2DH5 | 9.43 | <=20.97 | Pass |
| | | 2480 | 2DH5 | 9.88 | <=20.97 | Pass |
| 8DPSK | SISO | 2402 | 3DH5 | 9.30 | <=20.97 | Pass |
| | | 2441 | 3DH5 | 9.45 | <=20.97 | Pass |
| | | 2480 | 3DH5 | 9.90 | <=20.97 | Pass |

3. Carrier Frequency Separation

3.1 Ant1

3.1.1 Test Result

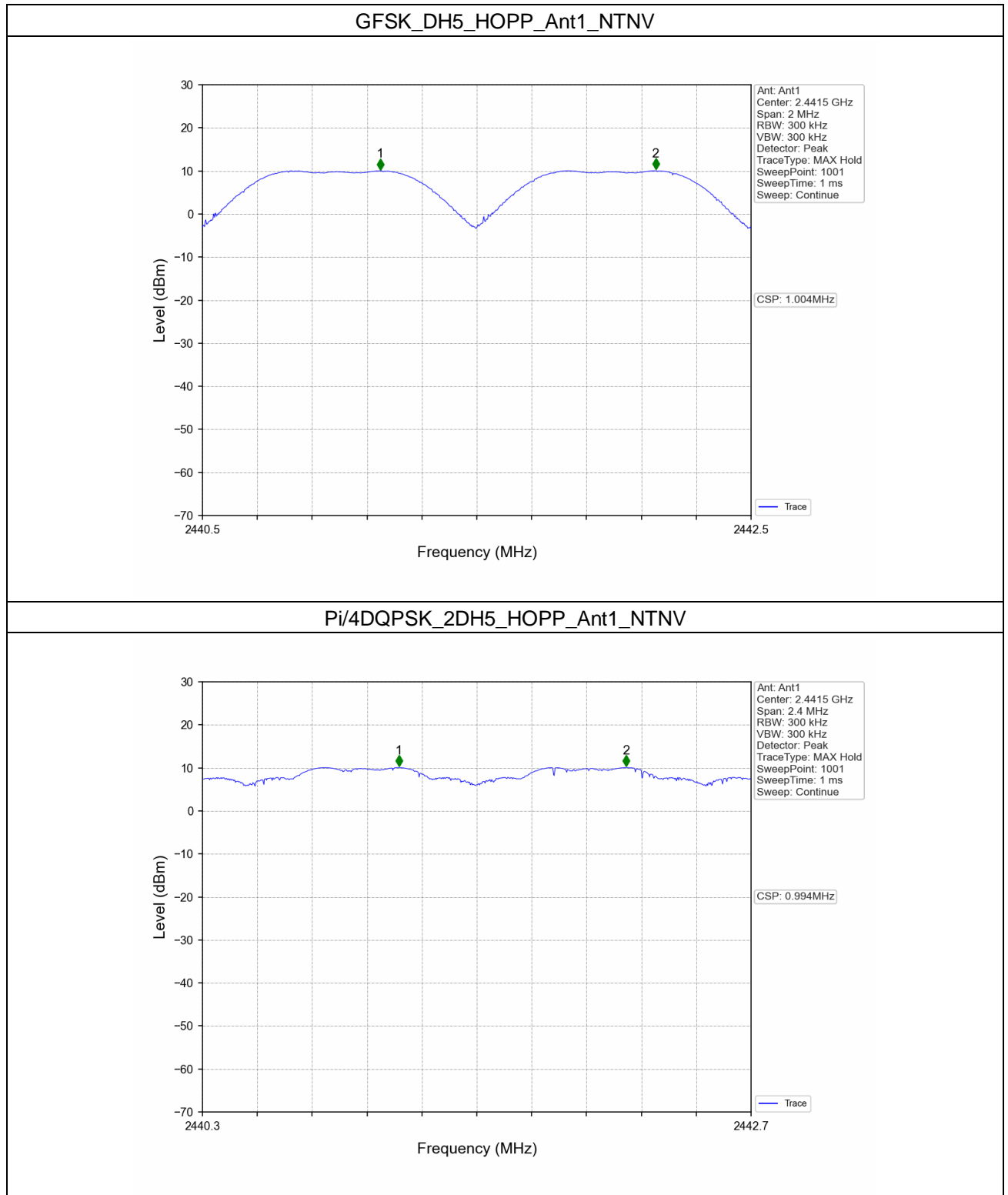
| Ant1 | | | | | | | |
|-----------|---------|-----------------|-------------|--------------------------|----------------------|-------------|---------|
| Mode | TX Type | Frequency (MHz) | Packet Type | Channel Separation (MHz) | 20dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| GFSK | SISO | HOPP | DH5 | 1.004 | 0.967 | >=0.967 | Pass |
| Pi/4DQPSK | SISO | HOPP | 2DH5 | 0.994 | 1.288 | >=0.859 | Pass |
| 8DPSK | SISO | HOPP | 3DH5 | 1.001 | 1.300 | >=0.867 | Pass |



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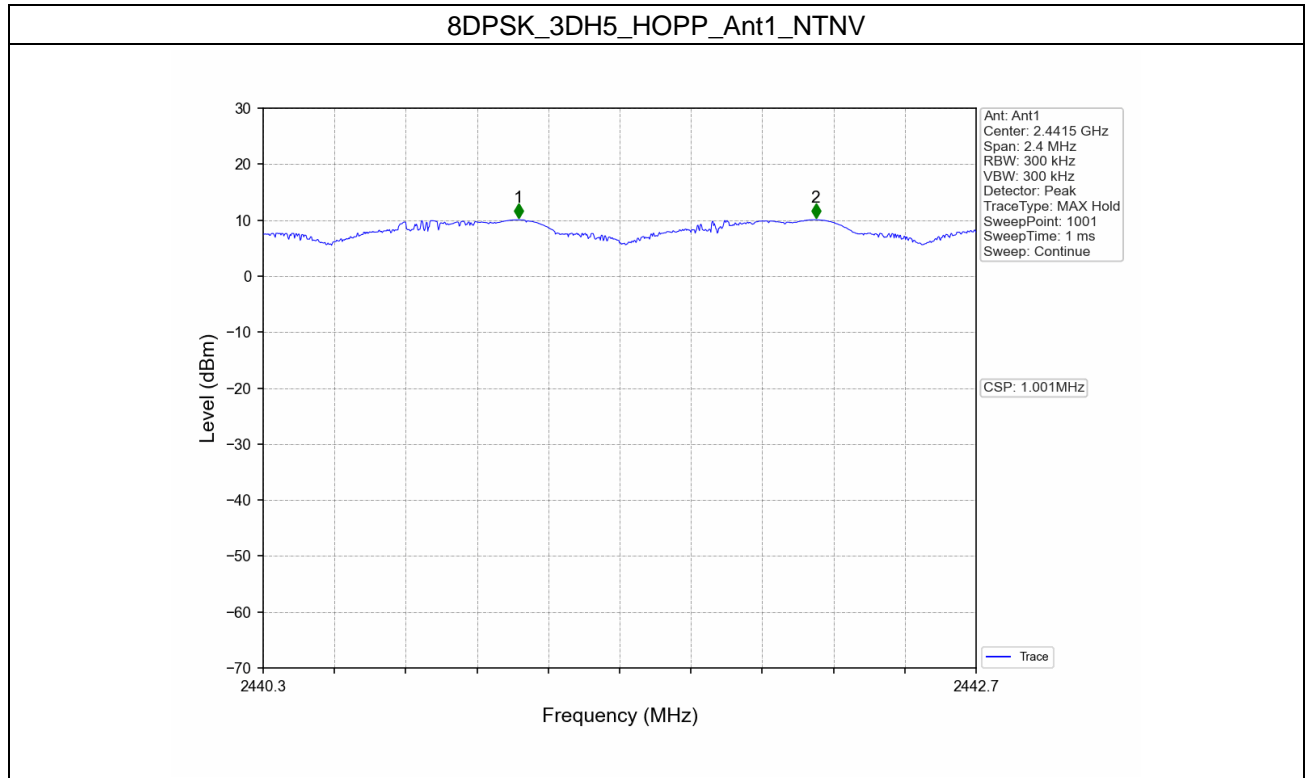
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3.1.2 Test Graph



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4. Number of Hopping Frequencies

4.1 Hopping Number

4.1.1 Test Result

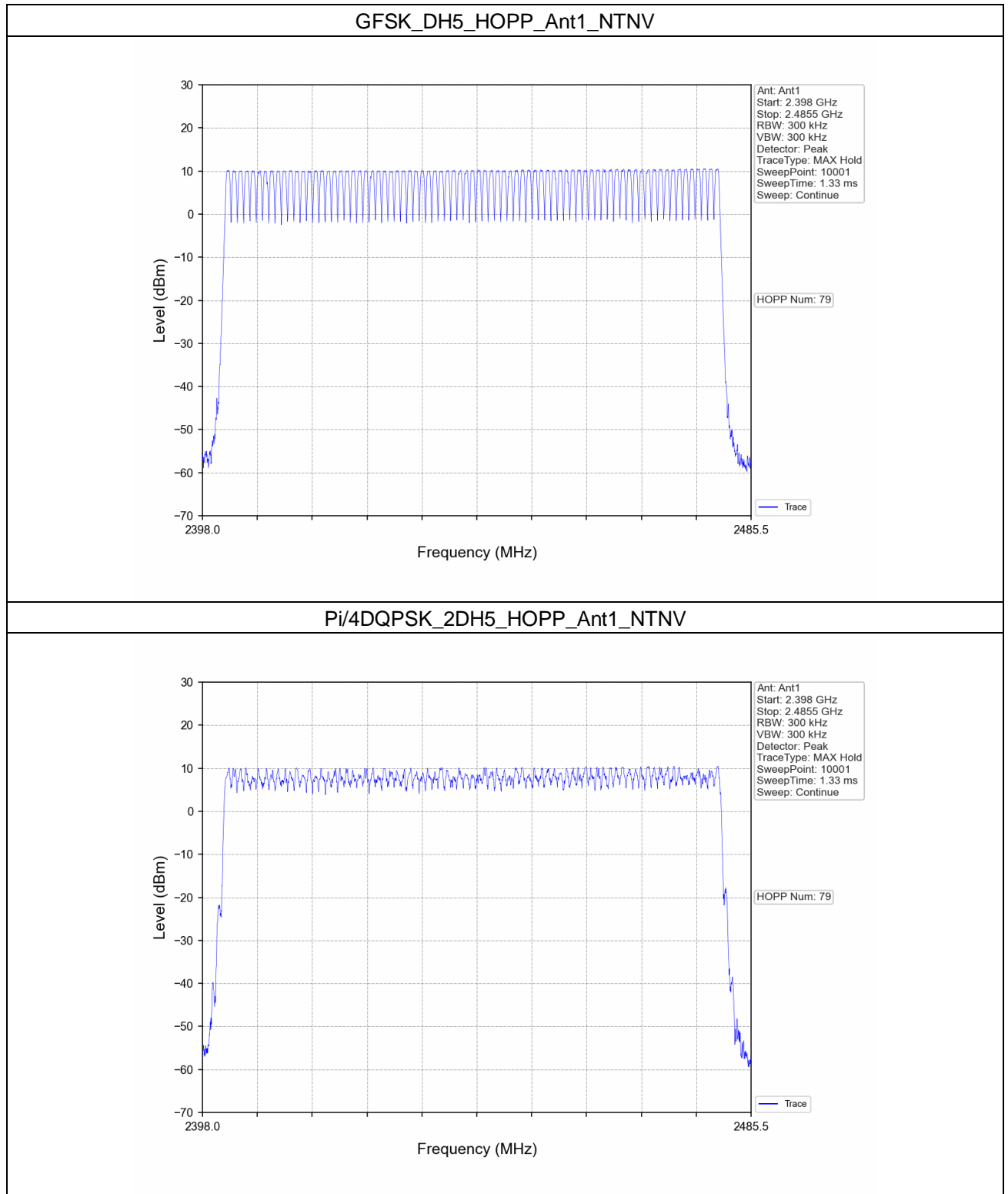
| Mode | TX Type | Frequency (MHz) | Packet Type | Num of Hopping Frequencies | | Verdict |
|-----------|---------|-----------------|-------------|----------------------------|-------|---------|
| | | | | Ant1 | Limit | |
| GFSK | SISO | HOPP | DH5 | 79 | >=15 | Pass |
| Pi/4DQPSK | SISO | HOPP | 2DH5 | 79 | >=15 | Pass |
| 8DPSK | SISO | HOPP | 3DH5 | 79 | >=15 | Pass |



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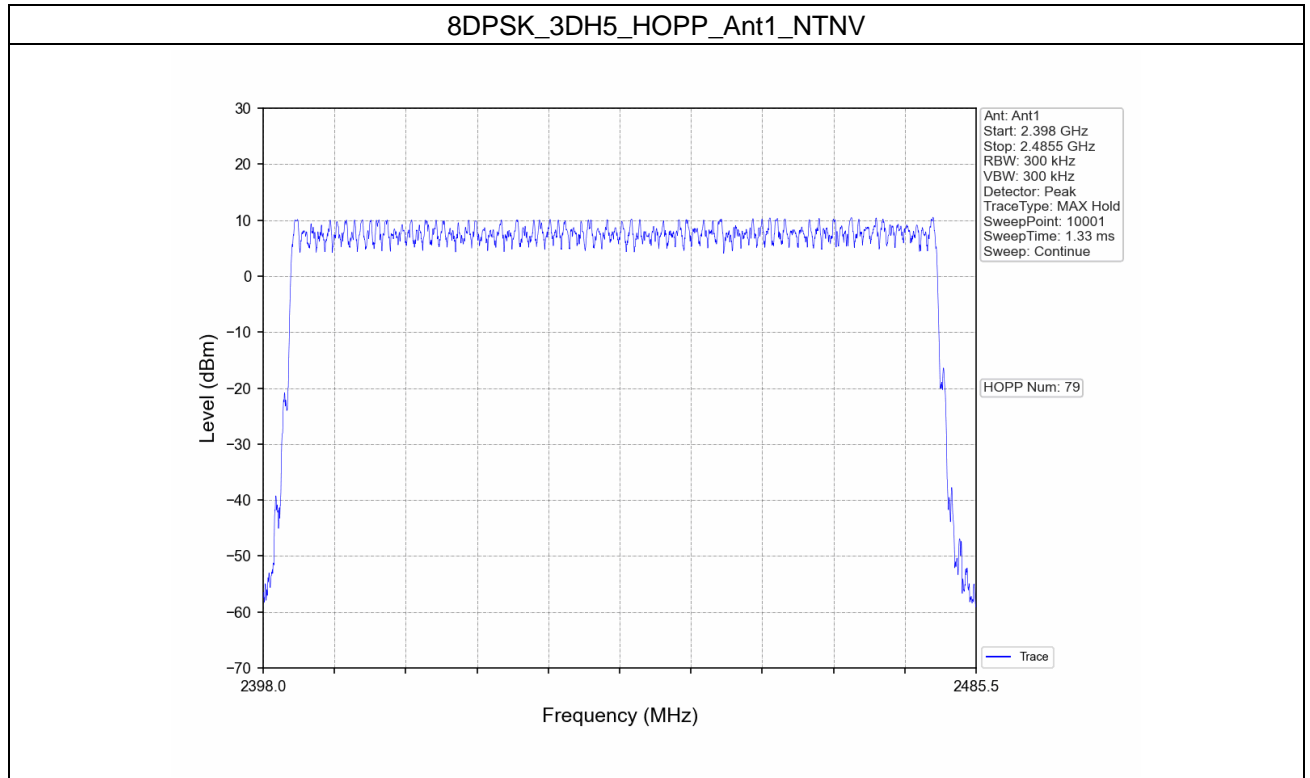
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4.1.2 Test Graph



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5. Time of Occupancy (Dwell Time)

5.1 Ant1

5.1.1 Test Result

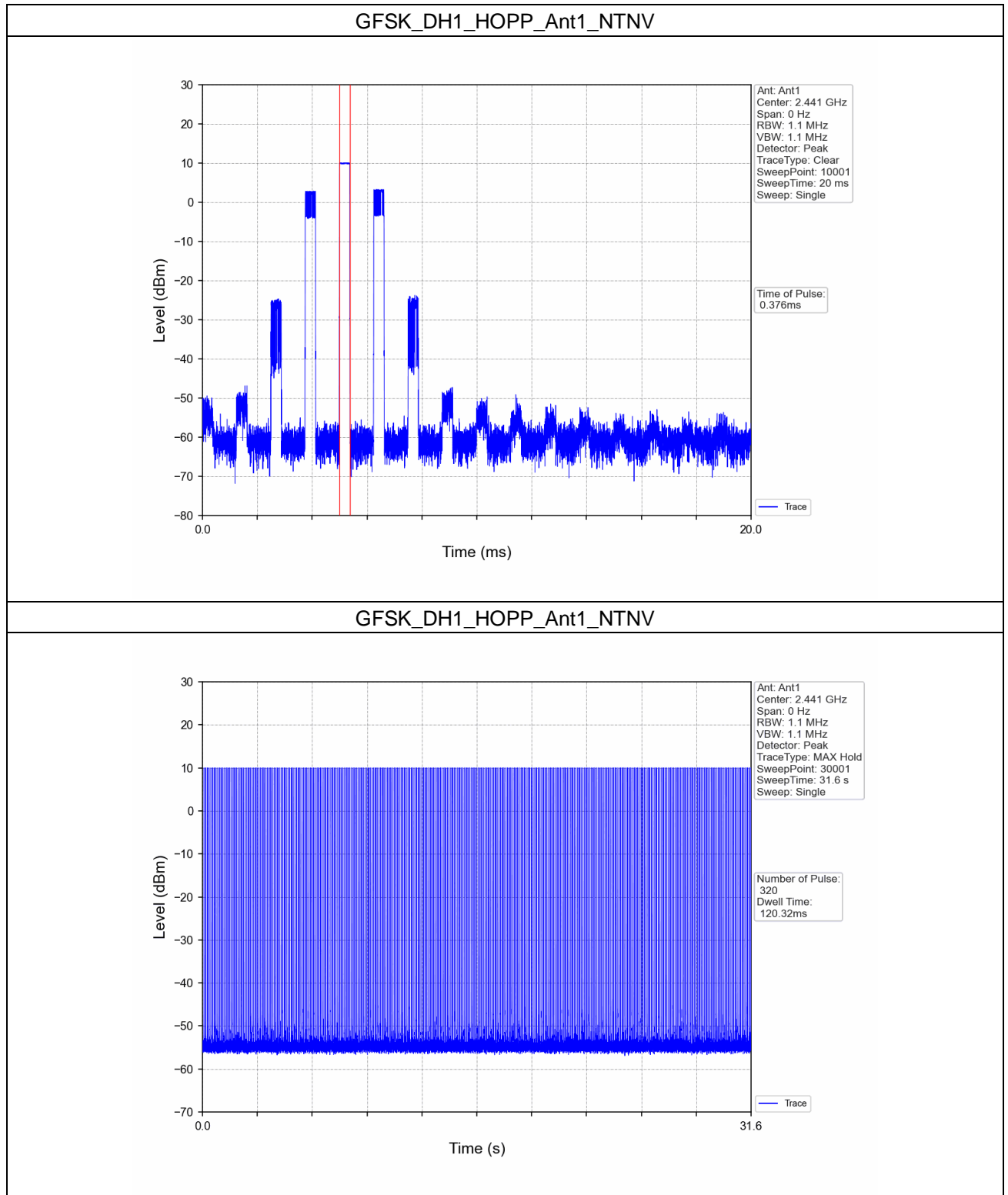
| Ant1 | | | | | | | | | |
|-----------|---------|-----------------|-------------|-------------------------------|------------------------|------------------------------------|-----------------|------------|---------|
| Mode | TX Type | Frequency (MHz) | Packet Type | Duration of Single Pulse (ms) | Observation Period (s) | Num of Pulse in Observation Period | Dwell Time (ms) | Limit (ms) | Verdict |
| GFSK | SISO | HOPP | DH1 | 0.376 | 31.600 | 320 | 120.320 | <=400 | Pass |
| | | | DH3 | 1.632 | 31.600 | 160 | 261.120 | <=400 | Pass |
| | | | DH5 | 2.880 | 31.600 | 107 | 308.160 | <=400 | Pass |
| Pi/4DQPSK | SISO | HOPP | 2DH1 | 0.382 | 31.600 | 320 | 122.240 | <=400 | Pass |
| | | | 2DH3 | 1.634 | 31.600 | 160 | 261.440 | <=400 | Pass |
| | | | 2DH5 | 2.880 | 31.600 | 107 | 308.160 | <=400 | Pass |
| 8DPSK | SISO | HOPP | 3DH1 | 0.384 | 31.600 | 320 | 122.880 | <=400 | Pass |
| | | | 3DH3 | 1.634 | 31.600 | 160 | 261.440 | <=400 | Pass |
| | | | 3DH5 | 2.884 | 31.600 | 106 | 305.704 | <=400 | Pass |



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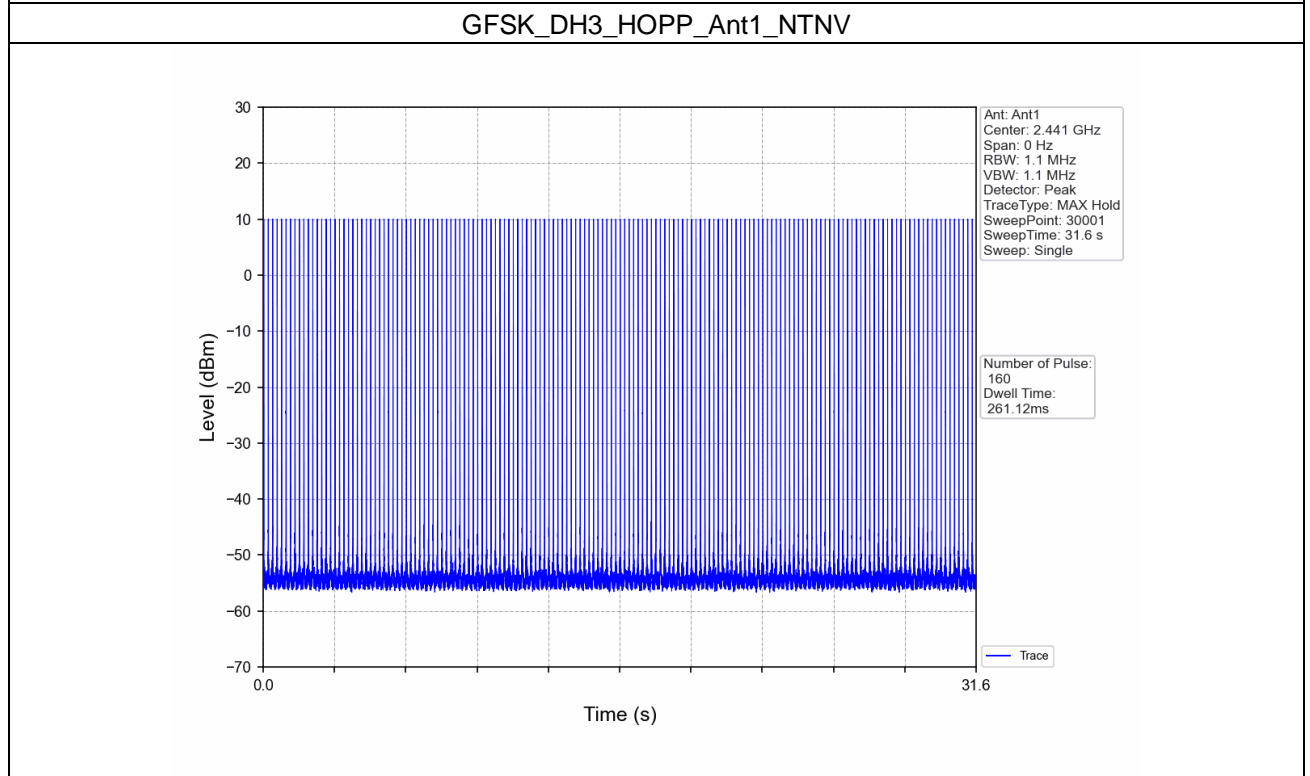
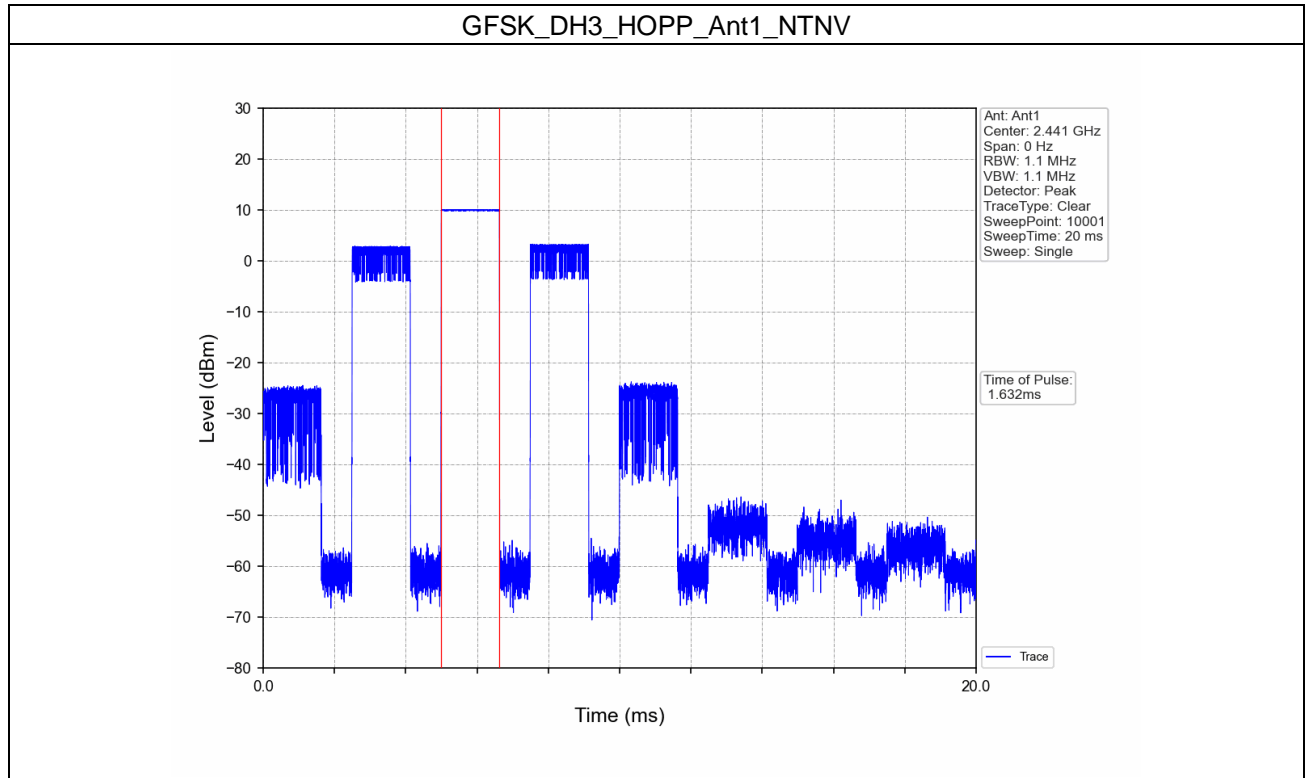
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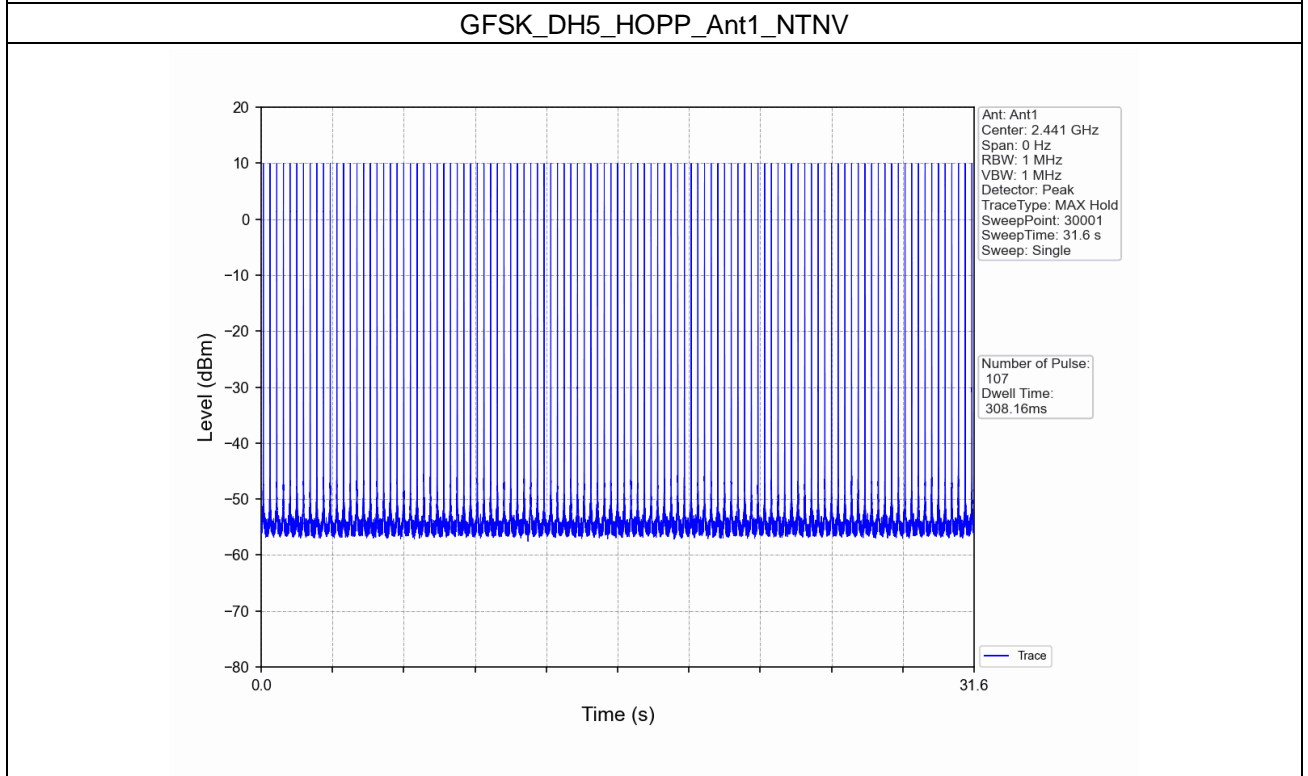
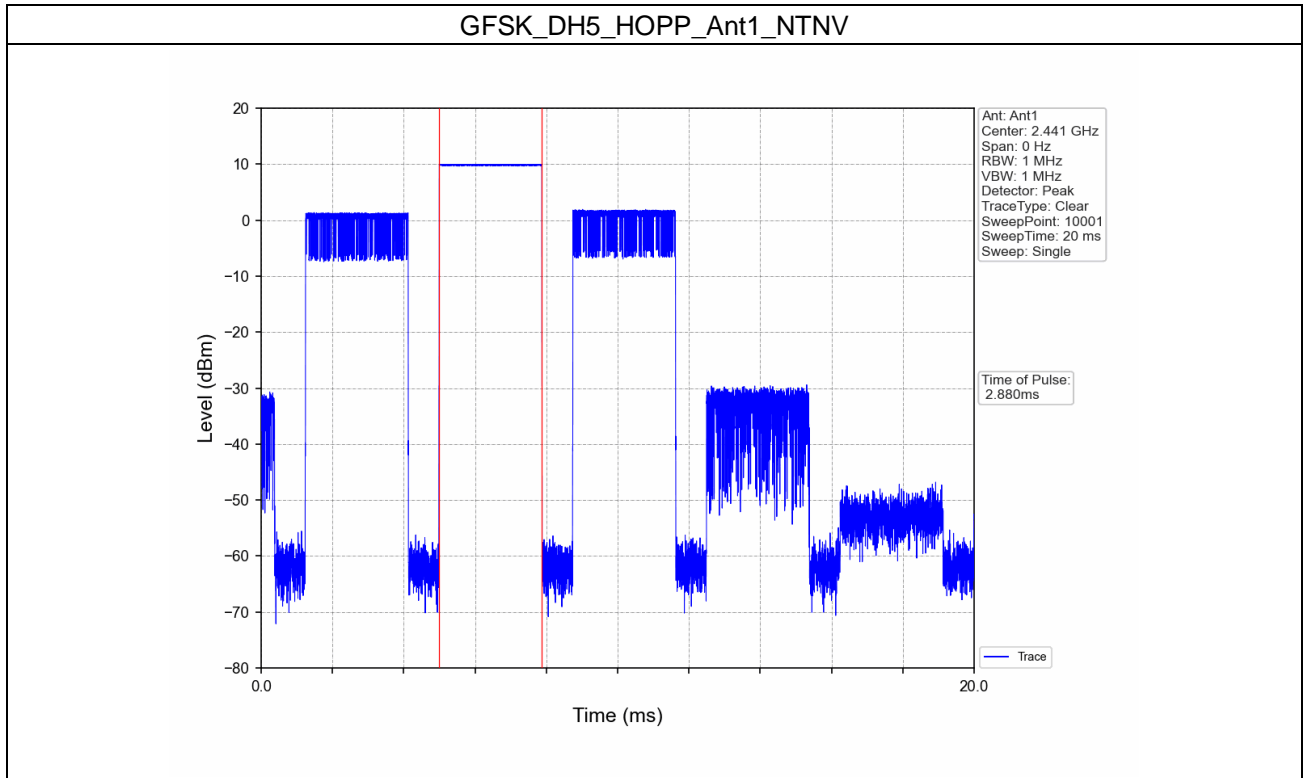
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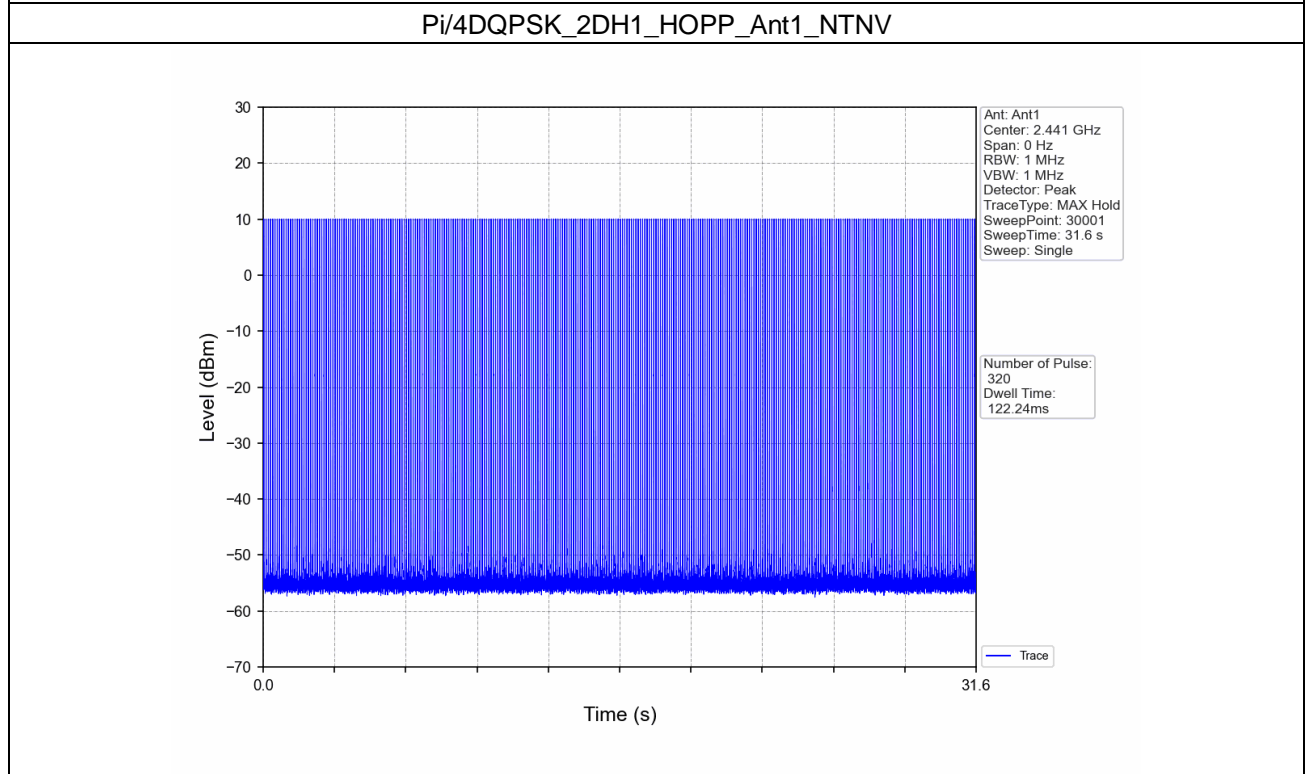
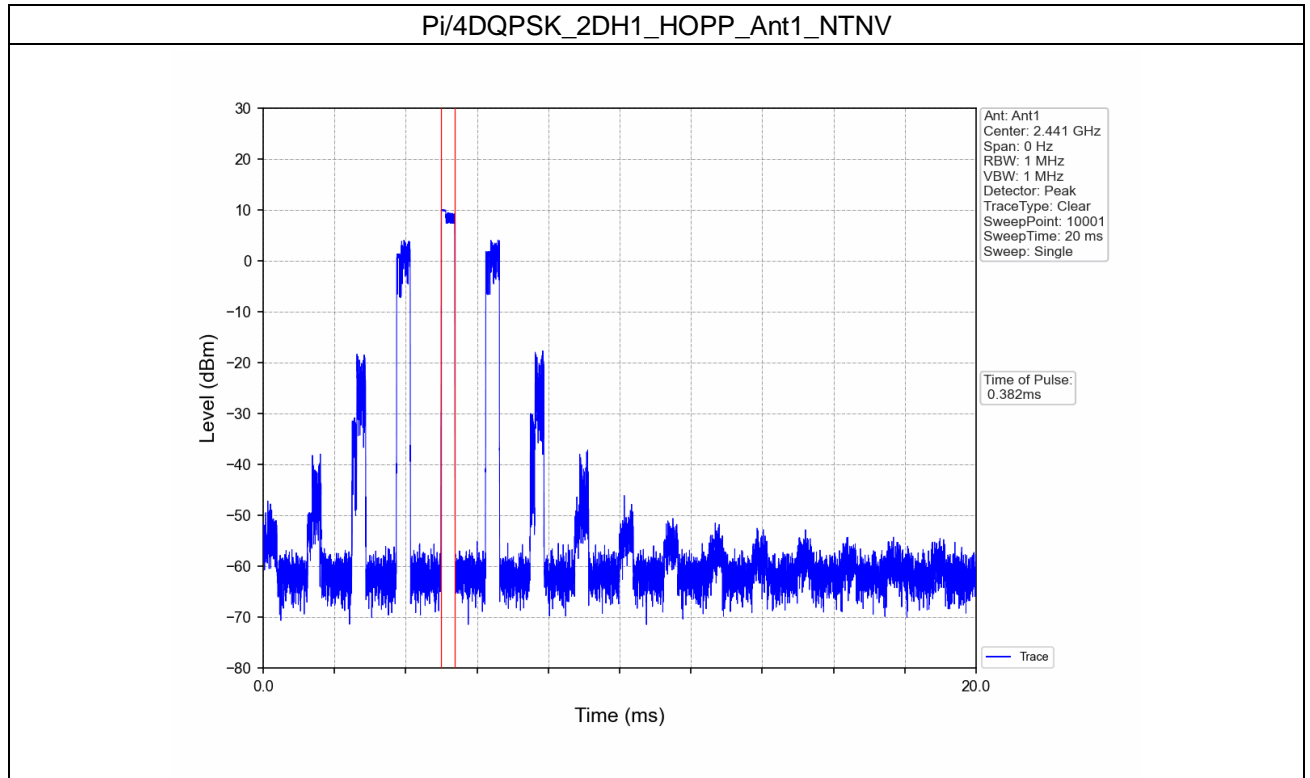
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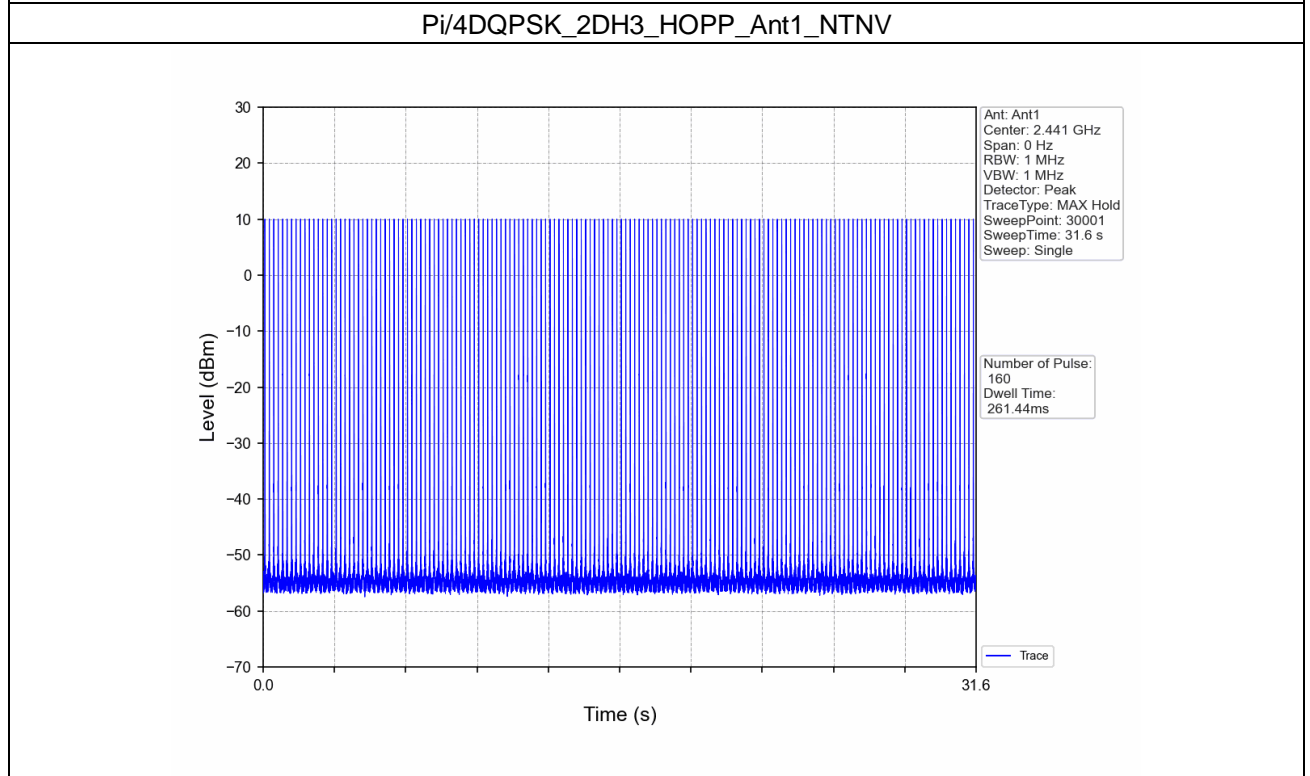
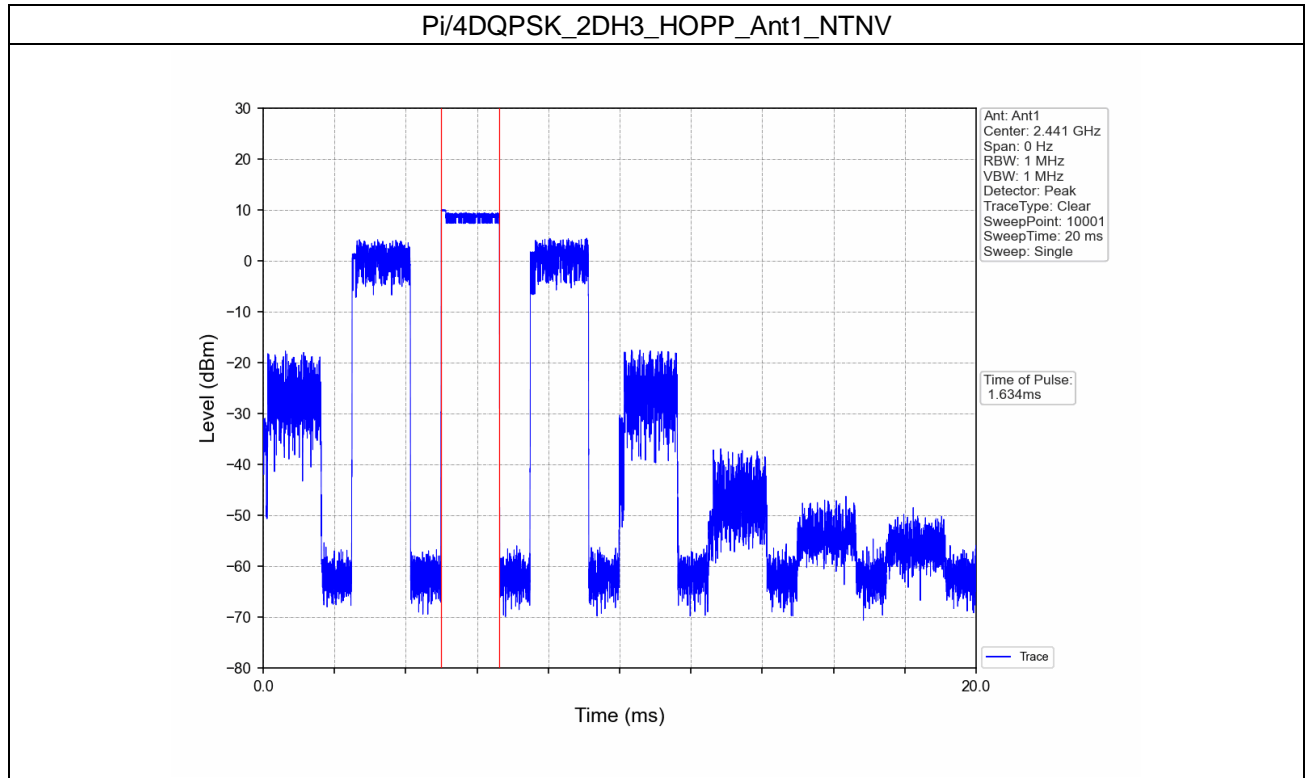
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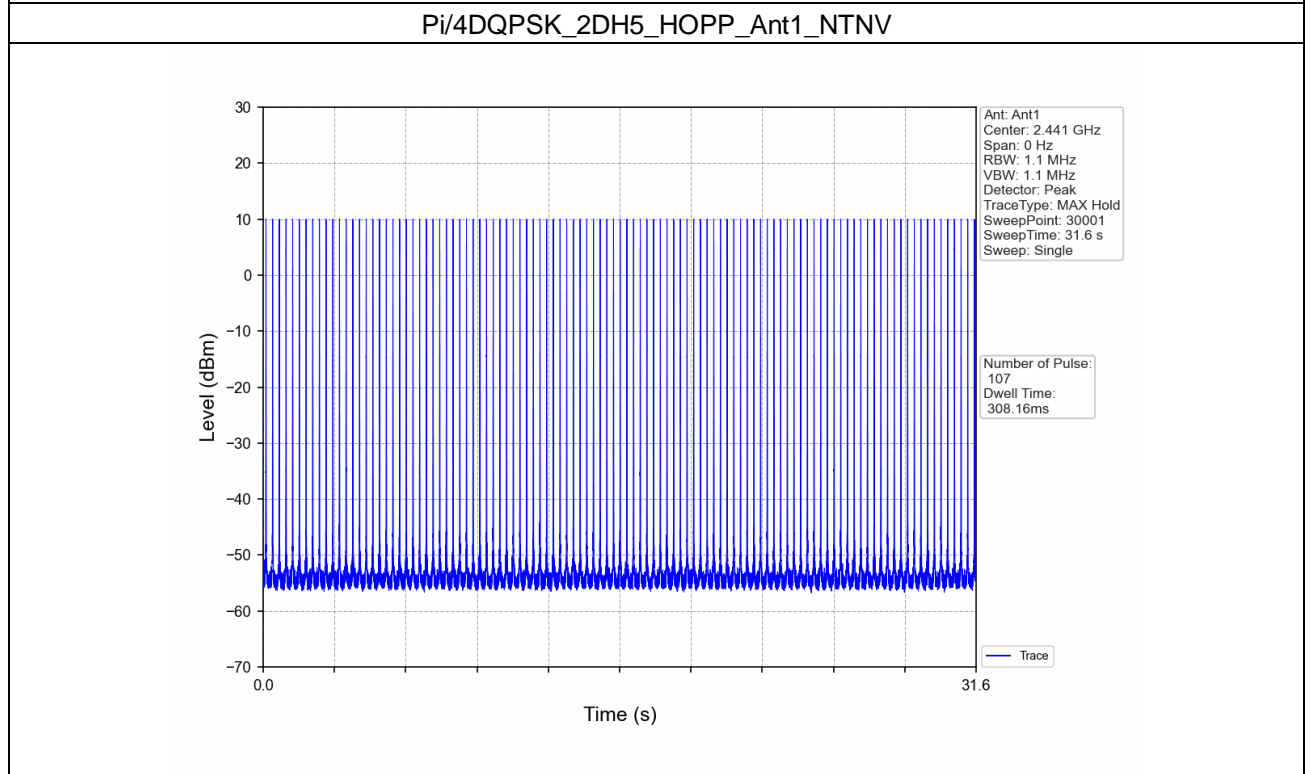
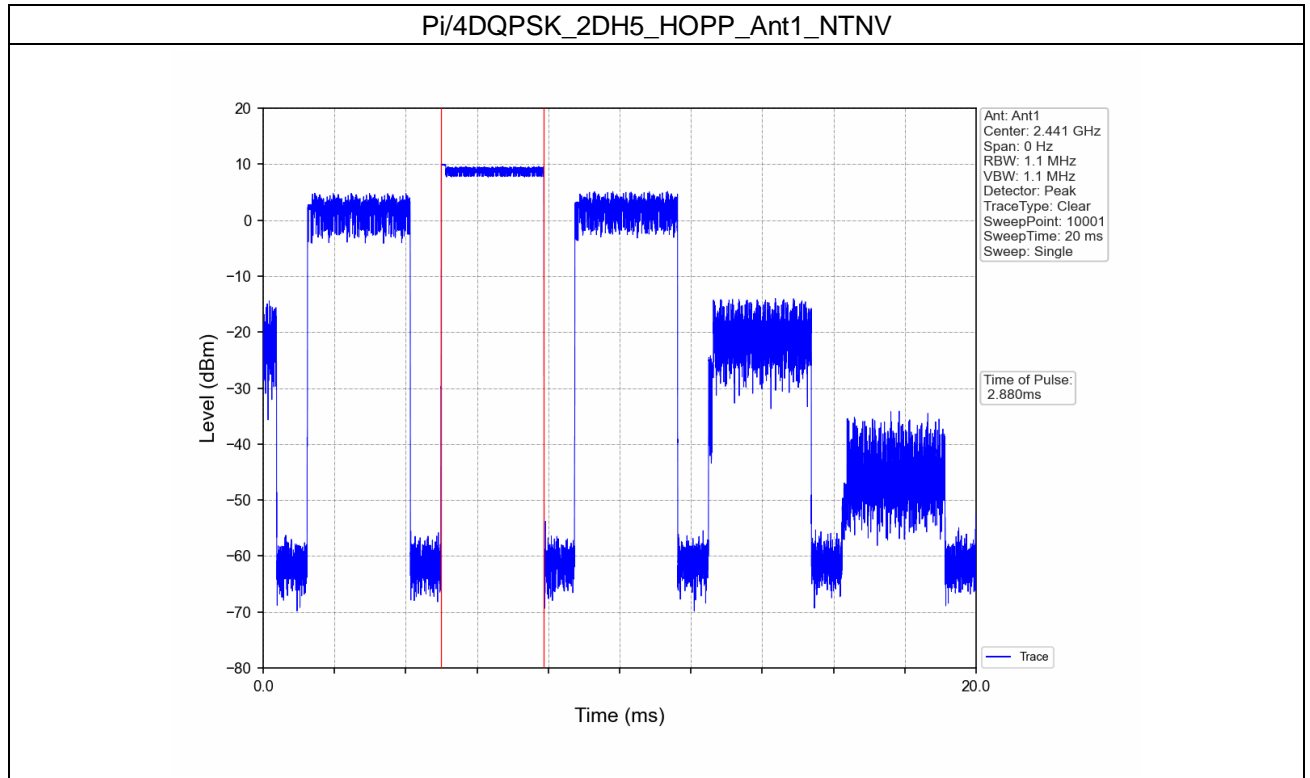
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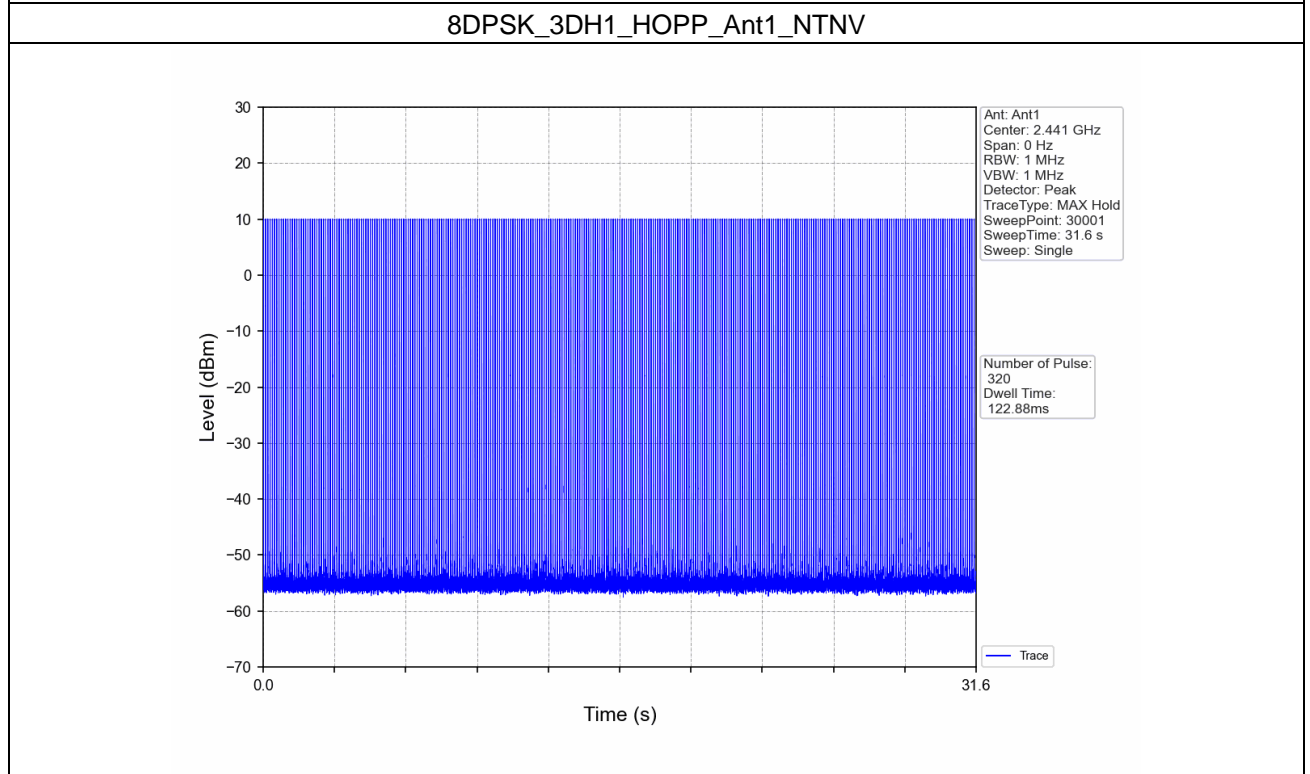
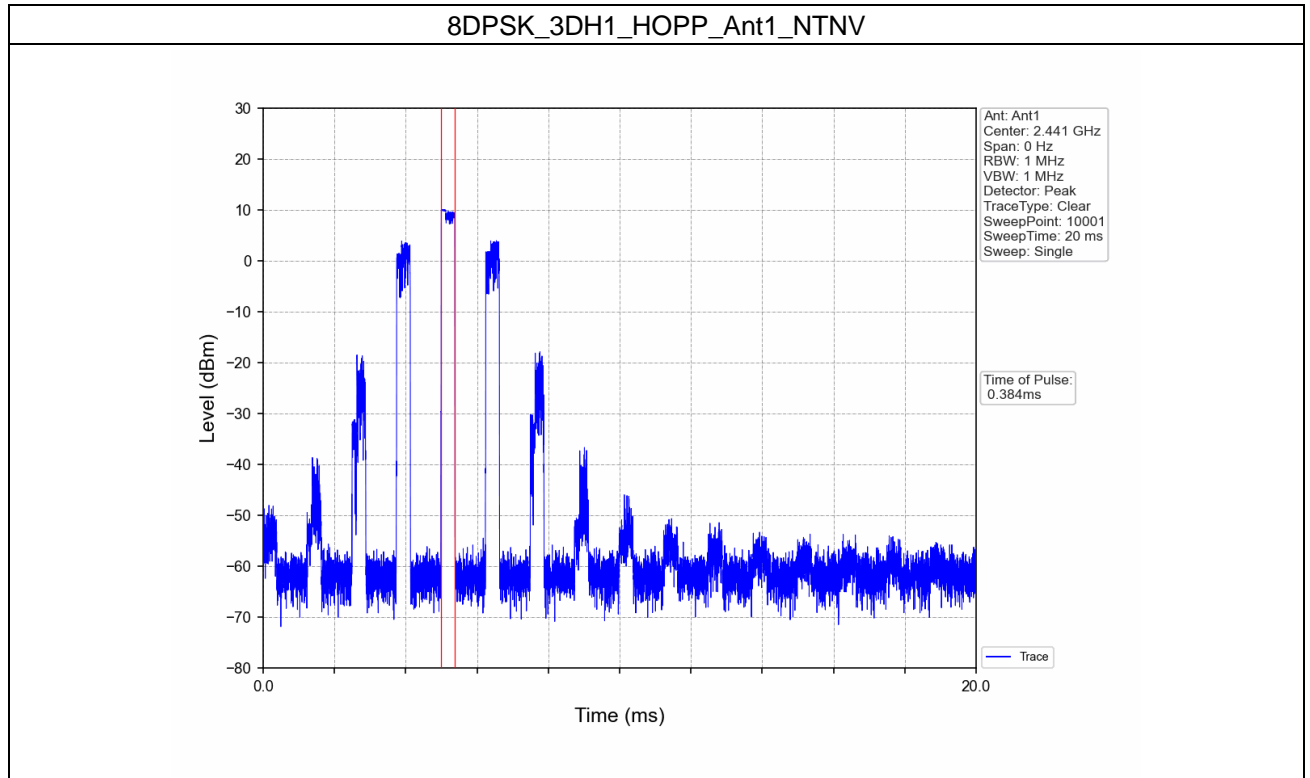


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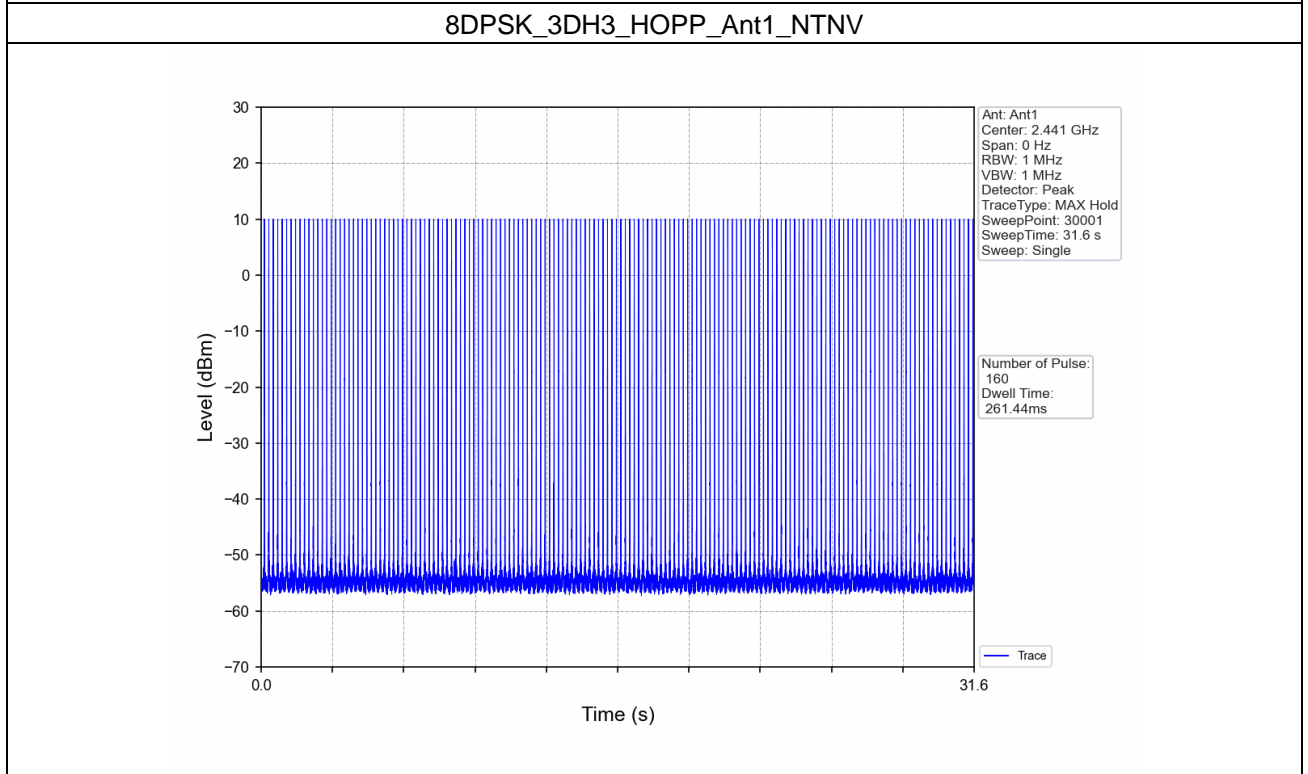
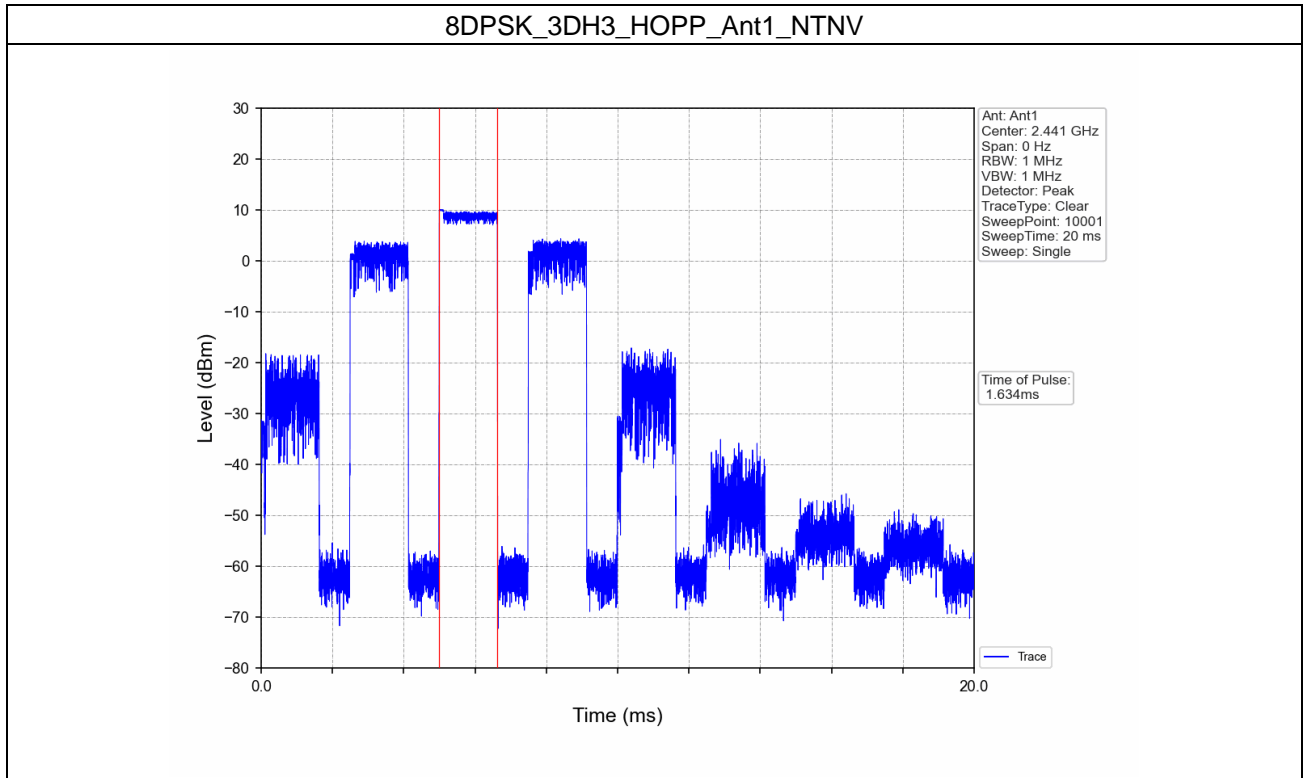
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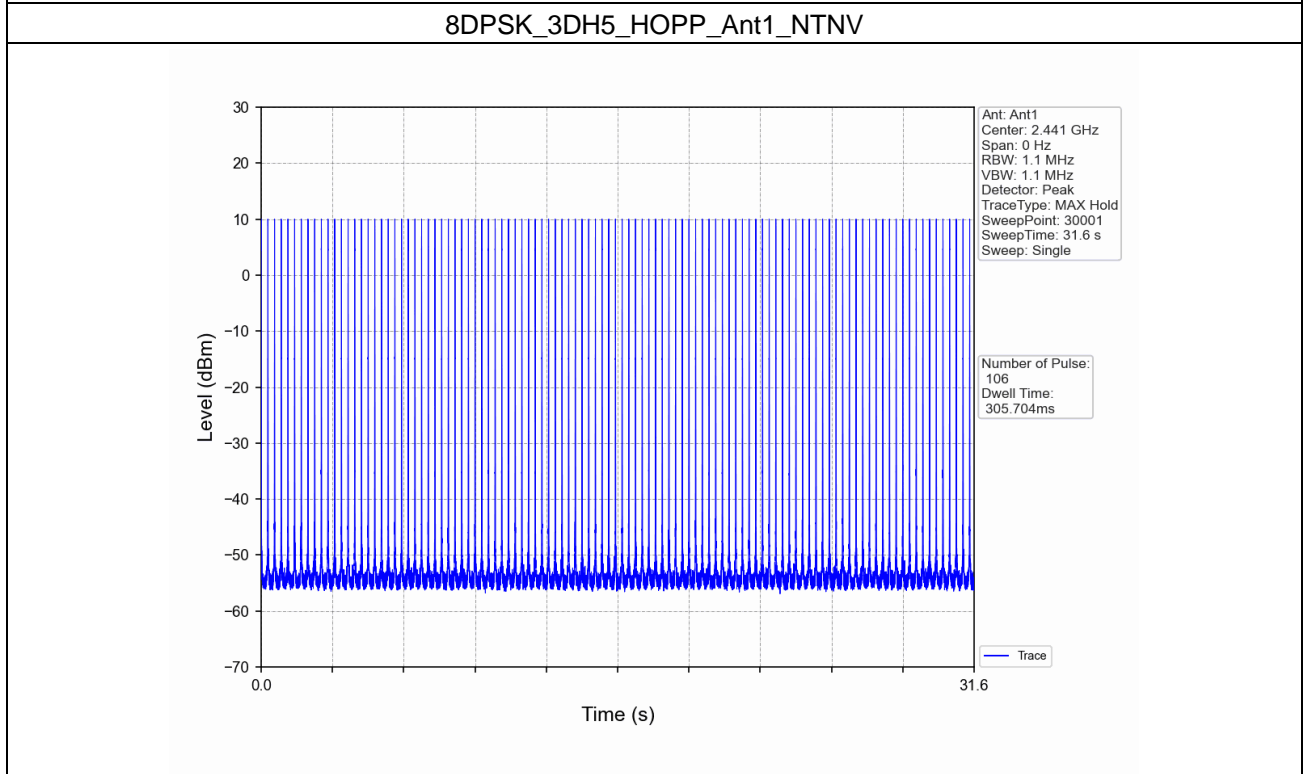
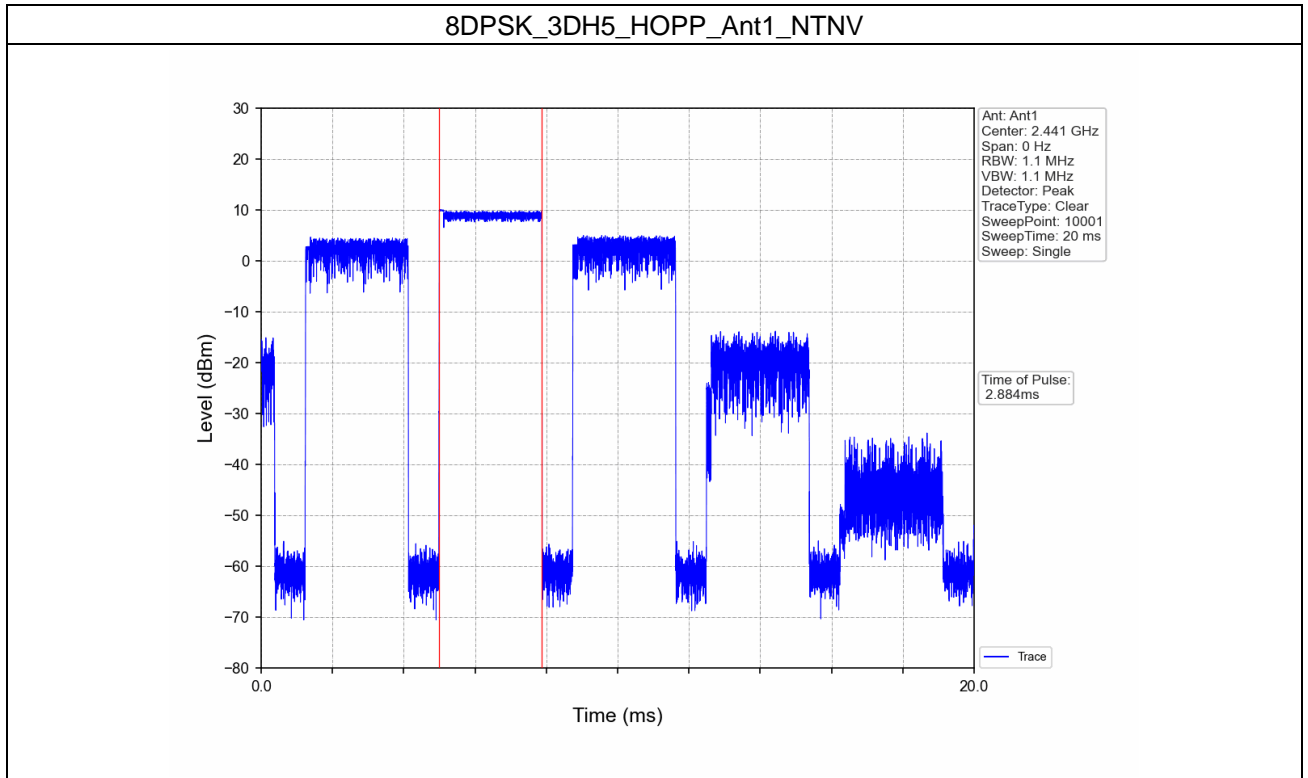
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6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Ref

6.1.1 Test Result

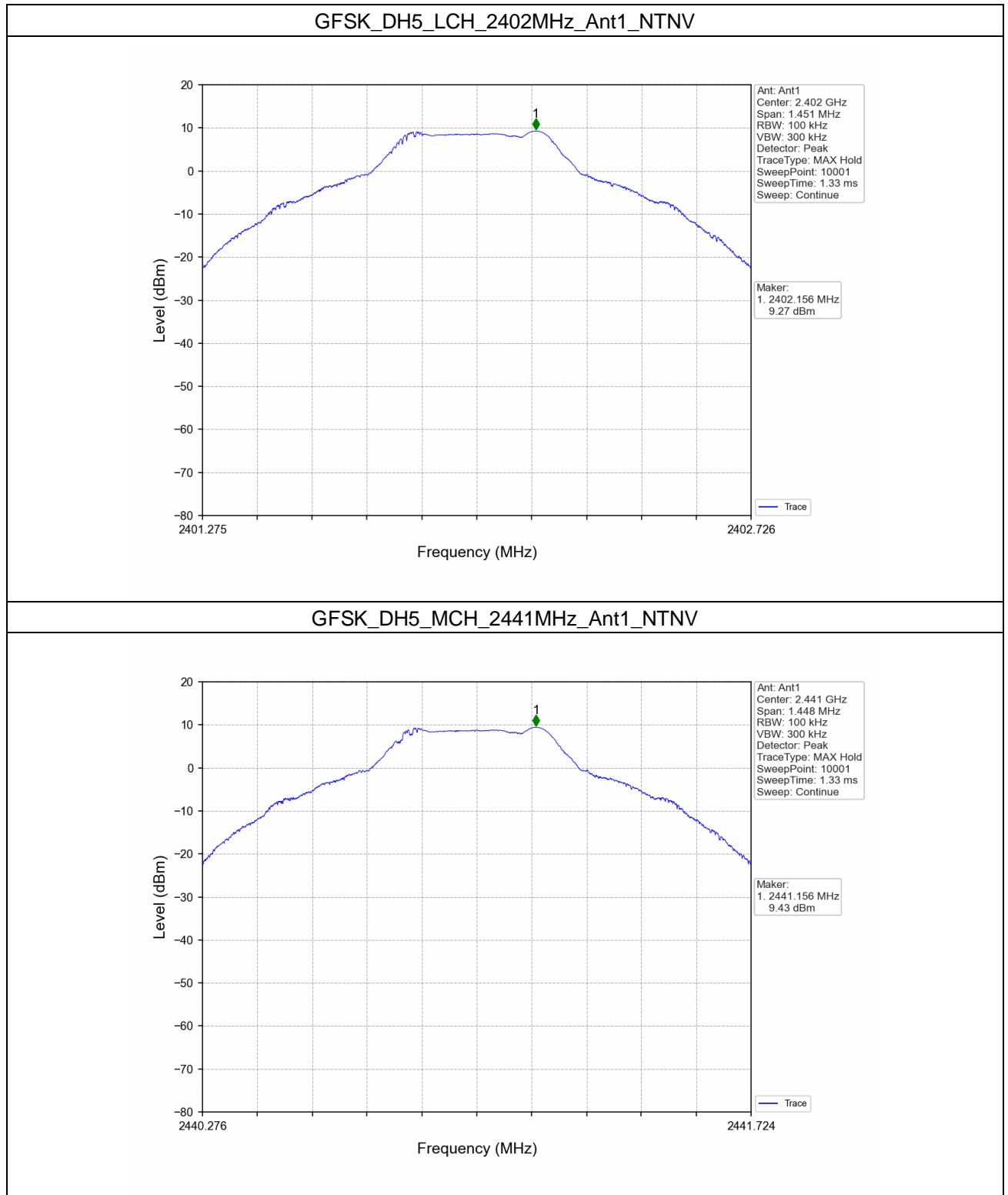
| Mode | TX Type | Frequency (MHz) | Packet Type | Ant | Level of Reference (dBm) |
|-----------|---------|-----------------|-------------|-----|--------------------------|
| GFSK | SISO | 2402 | DH5 | 1 | 9.27 |
| | | 2441 | DH5 | 1 | 9.43 |
| | | 2480 | DH5 | 1 | 9.89 |
| Pi/4DQPSK | SISO | 2402 | 2DH5 | 1 | 9.10 |
| | | 2441 | 2DH5 | 1 | 9.41 |
| | | 2480 | 2DH5 | 1 | 9.86 |
| 8DPSK | SISO | 2402 | 3DH5 | 1 | 9.25 |
| | | 2441 | 3DH5 | 1 | 9.42 |
| | | 2480 | 3DH5 | 1 | 9.84 |



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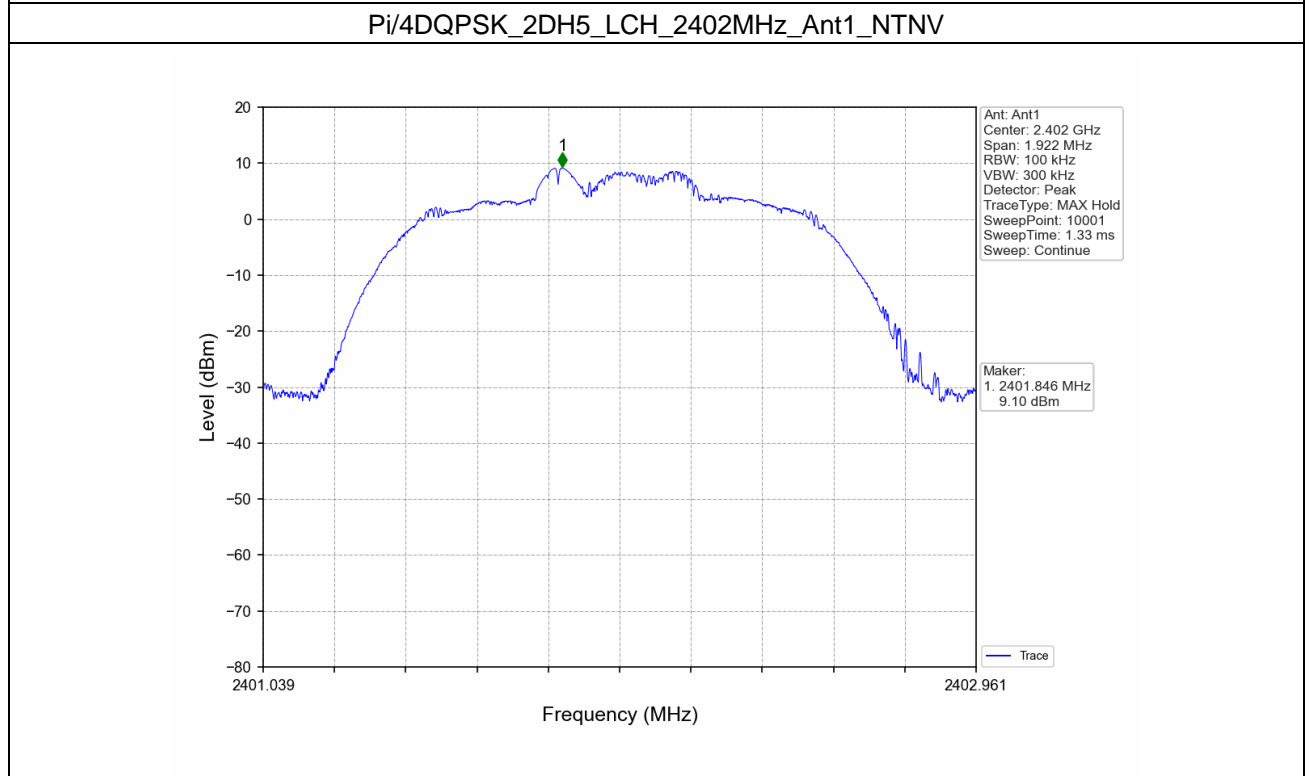
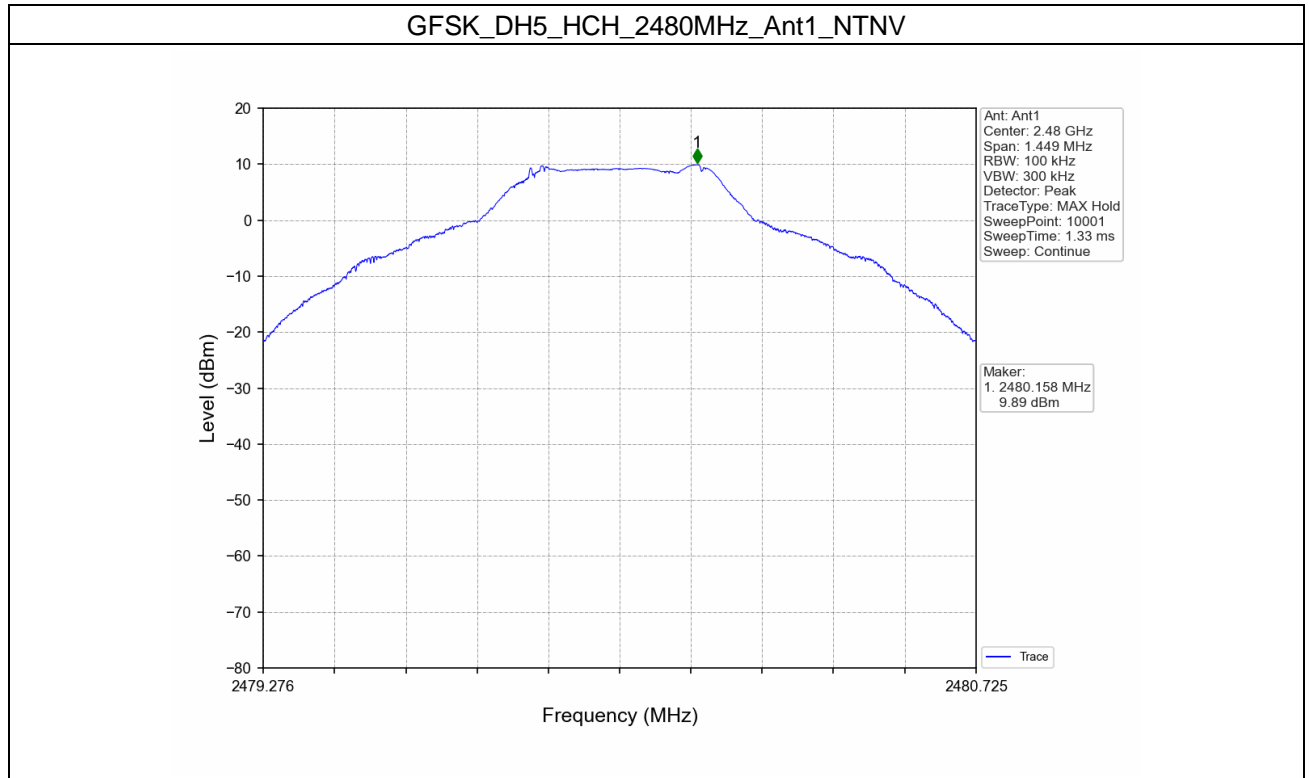
6.1.2 Test Graph



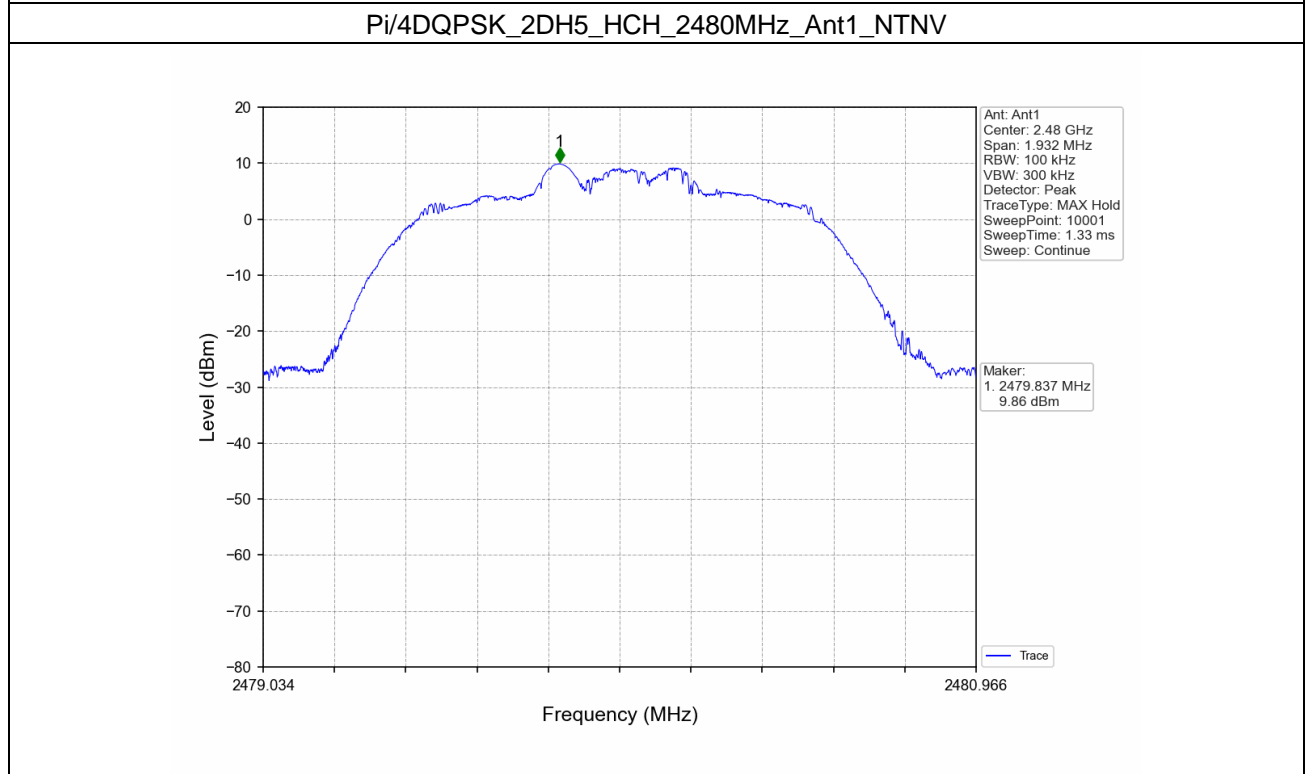
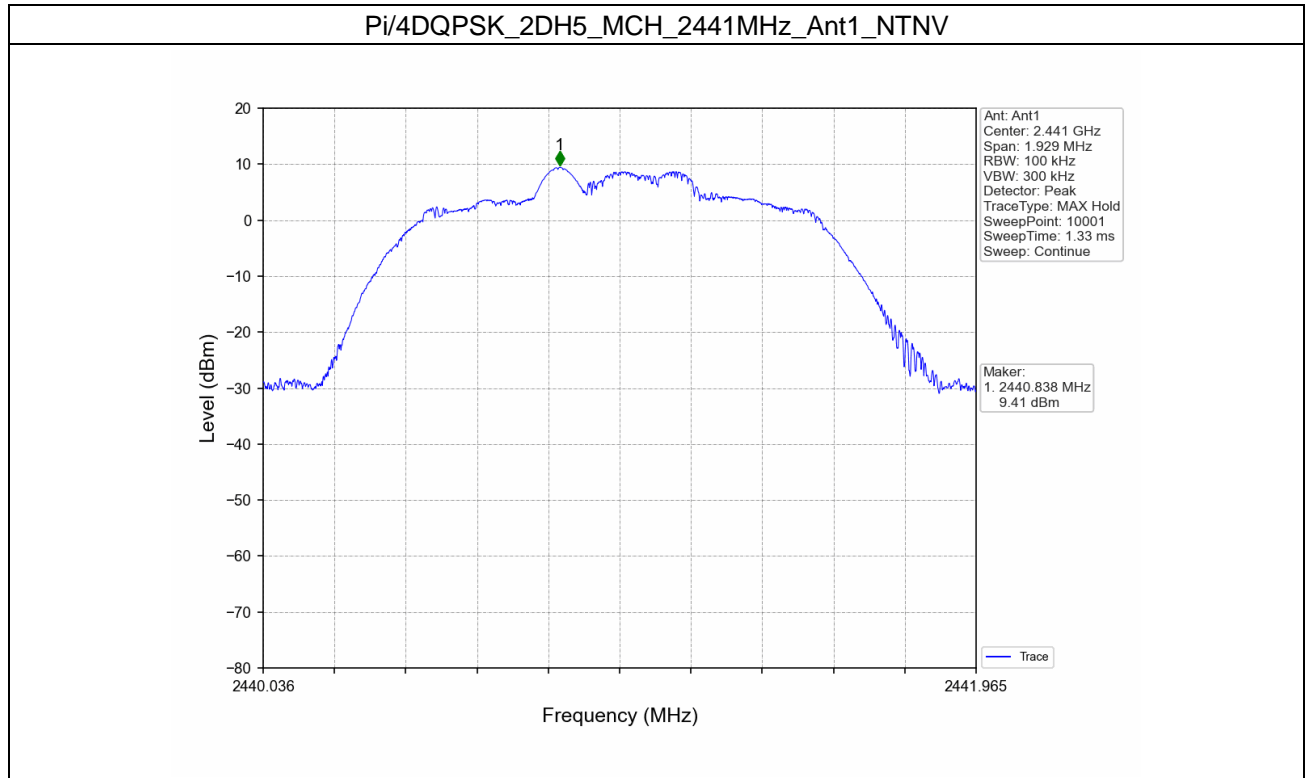
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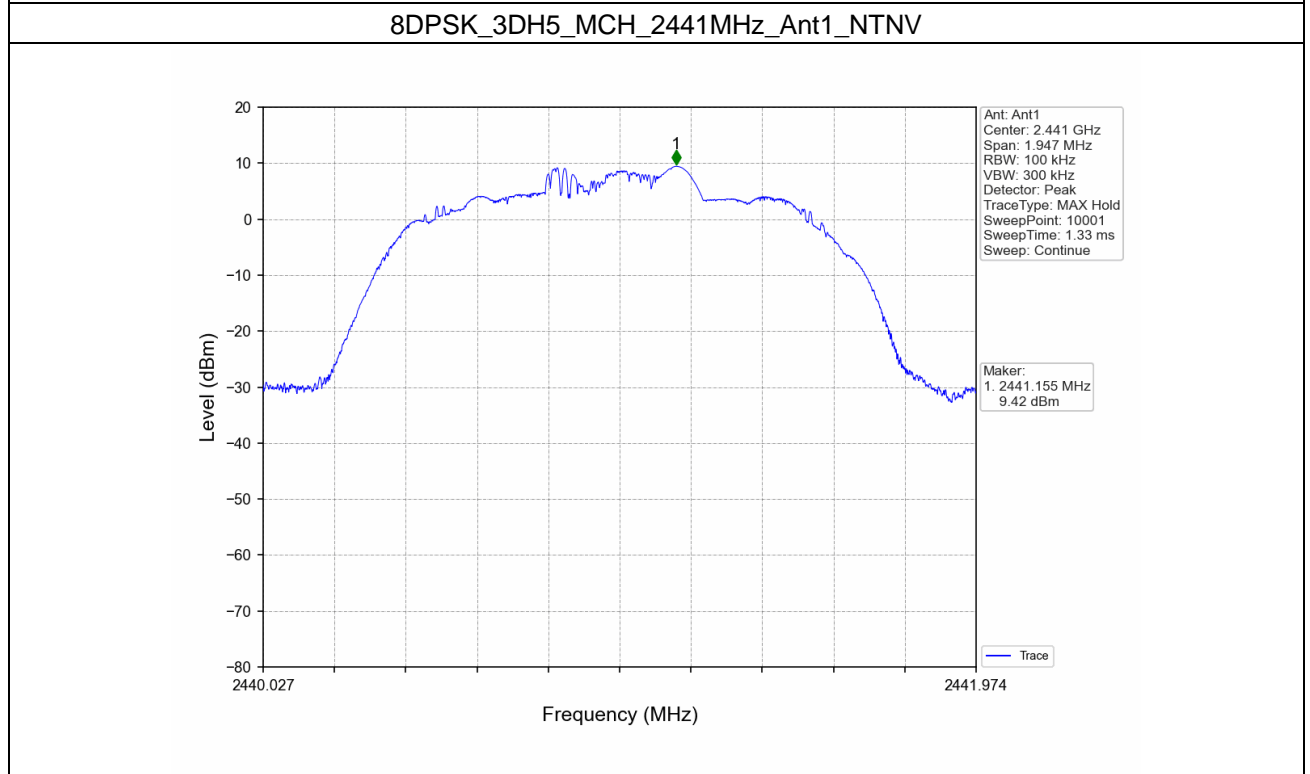
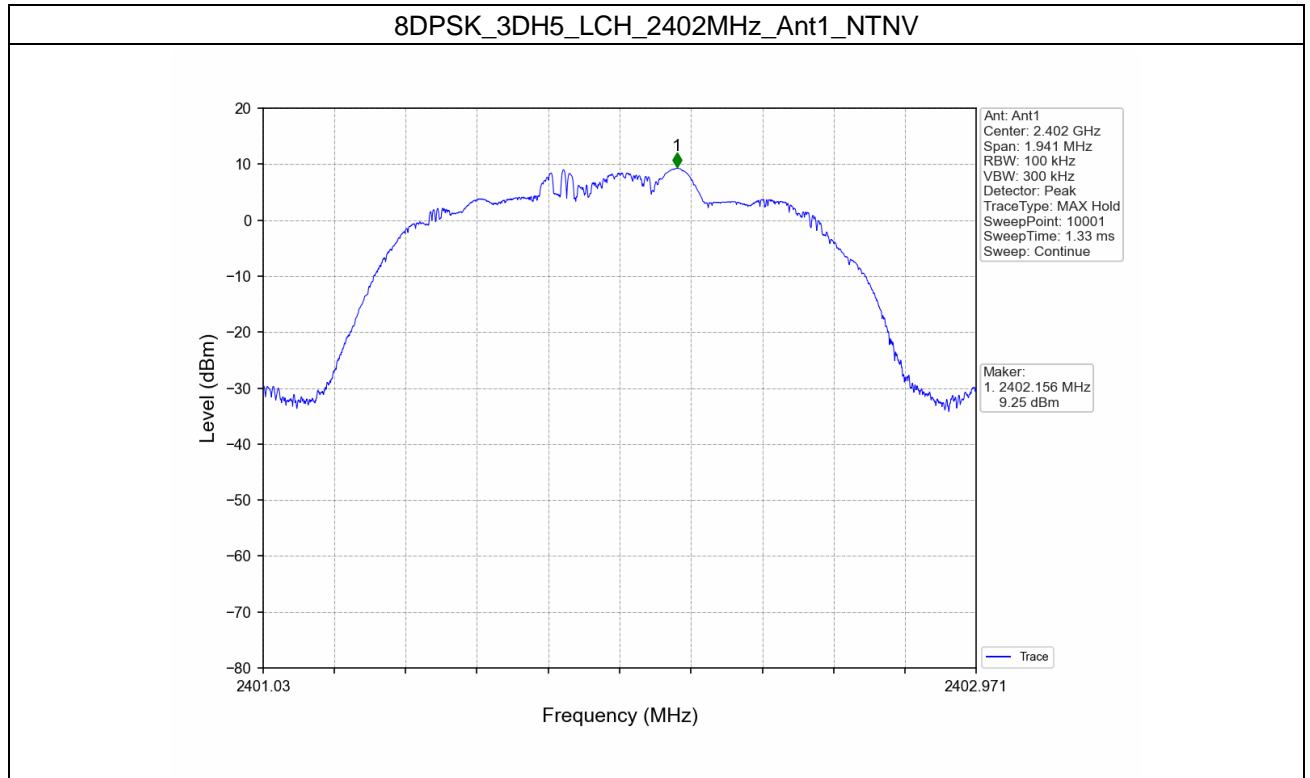


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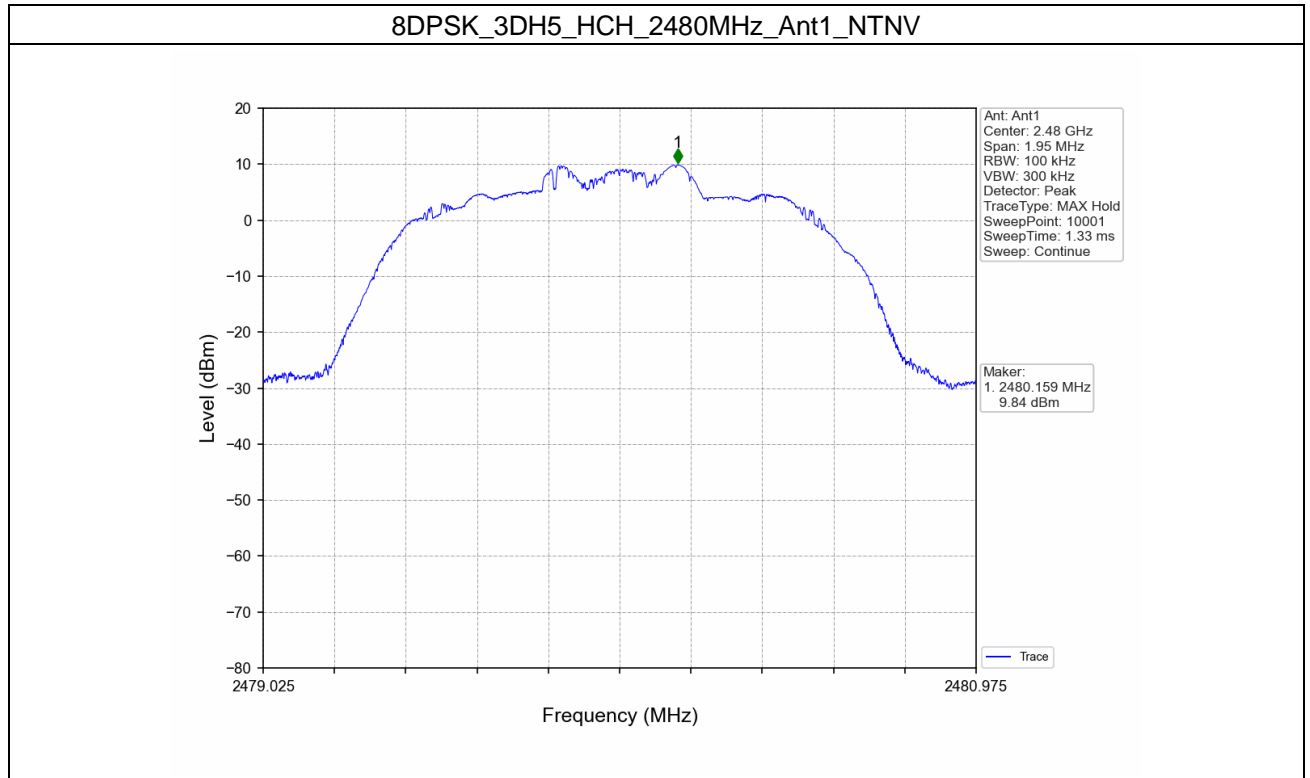


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6.2 CSE

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 | 9.89 | -10.11 | Pass |
| | | 2441 | DH5 | 1 | 9.89 | -10.11 | Pass |
| | | 2480 | DH5 | 1 | 9.89 | -10.11 | Pass |
| | | HOPP | DH5 | 1 | 9.89 | -10.11 | Pass |
| Pi/4DQPSK | SISO | 2402 | 2DH5 | 1 | 9.86 | -10.14 | Pass |
| | | 2441 | 2DH5 | 1 | 9.86 | -10.14 | Pass |
| | | 2480 | 2DH5 | 1 | 9.86 | -10.14 | Pass |
| | | HOPP | 2DH5 | 1 | 9.86 | -10.14 | Pass |
| 8DPSK | SISO | 2402 | 3DH5 | 1 | 9.84 | -10.16 | Pass |
| | | 2441 | 3DH5 | 1 | 9.84 | -10.16 | Pass |
| | | 2480 | 3DH5 | 1 | 9.84 | -10.16 | Pass |
| | | HOPP | 3DH5 | 1 | 9.84 | -10.16 | Pass |



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