# TEST REPORT

| | |
|---|---|
| **Application No.:** | SZCR2410003959WM |
| **Applicant:** | Guangdong OPPO Mobile Telecommunications Corp., Ltd. |
| **Address of Applicant:** | NO.18 Haibin Road, Wusha, Chang'an Town, Dongguan City, Guangdong, China |
| **Manufacturer:** | Guangdong OPPO Mobile Telecommunications Corp., Ltd. |
| **Address of Manufacturer:** | NO.18 Haibin Road, Wusha, Chang'an Town, Dongguan City, Guangdong, China |
| **Equipment Under Test (EUT):** | |
| **EUT Description:** | Mobile Phone |
| **Model No.:** | CPH2699 |
| **Trade Mark:** | OPPO |
| **FCC ID:** | R9C-OP24263 |
| **Standard(s) :** | 47 CFR Part 15, Subpart C 15.247 |
| **Date of Receipt:** | 2024-10-25 |
| **Date of Test:** | 2024-11-26 to 2024-12-10 |
| **Date of Issue:** | 2024-12-18 |
| **Test Result:** | **Pass*** |

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

Keny Xu
EMC Laboratory Manager

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| Revision Record | | | | |
|---|---|---|---|---|
| **Version** | **Chapter** | **Date** | **Modifier** | **Remark** |
| 01 | | 2024-12-18 | | Original |
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|---|---|---|---|---|
| **Authorized for issue by:** | | | | |
| | | Sherlock Fang | | |
| | | **Sherlock Fang/Project Engineer** | | |
| | | Eric Fu | | |
| | | **Eric Fu/Reviewer** | | |

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# 2 Test Summary

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

| Radio Spectrum Matter Part | | | | |
|---|---|---|---|---|
| **Item** | **Standard** | **Method** | **Requirement** | **Result** |
| Conducted Emissions at AC Power Line (150kHz-30MHz) | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 6.2 | 47 CFR Part 15, Subpart C 15.207 | Pass |
| Radiated Emissions which fall in the restricted bands | | ANSI C63.10 (2013) Section 6.10.5 | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass |
| Radiated Spurious Emissions Below 1GHz | | ANSI C63.10 (2013) Section 6.4,6.5 | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass |
| Radiated Spurious Emissions Above 1GHz | | ANSI C63.10 (2013) Section 6.6 | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass |
| Conducted Peak Output Power | | ANSI C63.10 (2013) Section 11.9.2 | 47 CFR Part 15, Subpart C 15.247(b)(3) | Pass |
| Minimum 6dB Bandwidth | | ANSI C63.10 (2013) Section 11.8.1 | 47 CFR Part 15, Subpart C 15.247a(2) | Pass |
| Power Spectrum Density | | ANSI C63.10 (2013) Section 11.10.2 | 47 CFR Part 15, Subpart C 15.247(e) | Pass |
| Conducted Band Edges Measurement | | ANSI C63.10 (2013) Section 11.13.3.2 | 47 CFR Part 15, Subpart C 15.247(d) | Pass |
| Conducted Spurious Emissions | | ANSI C63.10 (2013) Section 11.11 | 47 CFR Part 15, Subpart C 15.247(d) | Pass |

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# 4 General Information

## 4.1 Details of E.U.T.

| | | |
|---|---|---|
| EUT Description: | Mobile Phone | |
| Model No.: | CPH2699 | |
| Trade Mark: | OPPO | |
| Hardware Version: | 11 | |
| Software Version: | ColorOS 15.0 | |
| Power Supply: | DC 3.92V from internal rechargeable battery which can be charged by AC/DC adapter | |
| Operation Frequency: | 802.11b/g/n(HT20)/ac(VHT20): | 2412MHz to 2462MHz |
| | 802.11n(HT40) /ac(VHT40): | 2422MHz to 2452MHz |
| Modulation Type: | 802.11b: | DSSS (DBPSK, DQPSK, CCK) |
| | 802.11g/n: | OFDM (BPSK, QPSK, 16QAM, 64QAM) |
| | 802.11ac: | OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) |
| Number of Channels: | 802.11b/g/n(HT20)/VHT20: 11<br>802.11n(HT40)/VHT40: 7 | |
| Channel Spacing: | 5MHz | |
| Smart System: | ☒ SISO | 802.11b/g/n/ac |
| | ☐ MIMO | CDD: 802.11b/g/n/VHT: Tx & Rx |
| | | STBC: 802.11n/VHT: Tx & Rx |
| | | TXBF: 802.11n/VHT: Tx & Rx |
| | ☐ Diversity | 802.11b/g : Tx & Rx |
| Antenna Type: | IFA Antenna | |
| Antenna Gain: | -1dBi(Ant8) | |
| | Note:<br>The antenna gain are derived from the gain information report provided by the manufacturer. | |
| RF Cable: | 2000MHz ~ 3000MHz (1.1dB) | |
| Remark:<br>As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information. | | |

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## 4.2 Environment Parameter

| | | |
|---|---|---|
| Environment Parameter | 1020 mbar Selected Values During Tests | |
| Relative Humidity | 34.0-50.8 % RH Ambient | |
| Value | Temperature(°C) | Voltage(V) |
| NTNV | 20.2~24.6 | 3.92 |
| Note:<br>NV:Normal Voltage<br>NT:Normal Temperature | | |

## 4.3 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|---|---|---|---|
| Router | NETGEAR | R7800 | SZ-WRG-A-072 |

## 4.4 Measurement Uncertainty

| Test Item | Measurement Uncertainty |
|---|---|
| Conducted Emissions at AC Power Line (150kHz-30MHz) | ± 3.1dB |
| Radiated Emissions which fall in the restricted bands | ± 6.0dB (Below 1GHz);± 4.6dB (Above 1GHz) |
| Radiated Spurious Emissions Below 1GHz | ± 6.0dB for 3m; ± 5.0dB for 10m |
| Radiated Spurious Emissions Above 1GHz | ± 4.6dB (1-18GHz);± 4.8dB (18-40GHz) |
| Conducted Peak Output Power | ± 0.75dB |
| Minimum 6dB Bandwidth | ± 3% |
| Power Spectrum Density | ± 2.84dB |
| Conducted Band Edges Measurement | ± 0.75dB |
| Conducted Spurious Emissions | ± 0.75dB |
| Remark:<br>The $U_{lab}$ (lab Uncertainty) is less than $U_{cispr/ETSI}$ (CISPR/ETSI Uncertainty), so the test results<br>– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;<br>– non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit. | |

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## 4.5 Test Location

All tests were performed at:

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Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

## 4.6 Test Facility

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

**• A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

**• VCCI (Member No. 1937)**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

**• FCC –Designation Number: CN1336**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

**• Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

## 4.7 Deviation from Standards

None

## 4.8 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 | ZhongYu Electron | GB-88 | SEM001-06 | 2022-05-14 | 2025-05-13 |
| EMI Test Receiver | Rohde&Schwarz | ESR | SZ-WRG-M-047 | 2024-01-30 | 2025-01-29 |
| Measurement Software | AUDIX | e3 V8.2014-6-27a | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM024-01 | 2024-07-06 | 2025-07-05 |
| LISN | Rohde&Schwarz | ENV216 | SEM007-01 | 2024-08-15 | 2025-08-14 |
| LISN | ETS-LINDGREN | 3816/2 | SEM007-02 | 2024-03-14 | 2025-03-13 |

| Radiated Emissions which fall in the restricted bands | | | | | |
|---|---|---|---|---|---|
| **Equipment** | **Manufacturer** | **Model No.** | **Inventory No.** | **Cal Date** | **Cal Due Date** |
| Signal & Spectrum Analyzer | Rohde & Schwarz | FSV | SZ-WRG-M-048 | 2024-01-30 | 2025-01-29 |
| Low Noise Amplifier 30M-8GHz | Tonscend | TAP30M8G30 | SZ-WRG-M-050 | 2024-01-30 | 2025-01-29 |
| Double Ridge Horn Antenna 1GHz-18GHz | SCHWARZBECK | BBHA 9120 D | SZ-WRG-M-055 | 2023-12-21 | 2025-12-20 |
| RSE Test Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A |
| Chamber | CRTSGSSAC966 | N/A | SZ-WRG-C-063 | 2022-01-05 | 2025-01-04 |
| Humidity and Temperature Indicator | deli | 8838 | SEM002-46 | 2024-07-24 | 2025-07-23 |

| Radiated Spurious Emissions Below 1GHz | | | | | |
|---|---|---|---|---|---|
| **Equipment** | **Manufacturer** | **Model No.** | **Inventory No.** | **Cal Date** | **Cal Due Date** |
| Loop Antenna | ETS-Lindgren | 6502 | SEM003-08 | 2023-11-20 | 2025-11-19 |
| 3m Semi-Anechoic Chamber | ETS-LINDGREN | N/A | SEM001-01 | 2023-06-19 | 2026-06-18 |
| MXE EMI Receiver | Agilent Technologies | N9038A | SEM004-15 | 2024-08-14 | 2025-08-13 |
| BiConiLog Antenna | ETS-LINDGREN | 3142C | SEM003-01 | 2023-09-16 | 2025-09-15 |
| Pre-Amplifier | Agilent Technologies | 8447D | SEM005-01 | 2024-03-14 | 2025-03-13 |
| Measurement Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM025-01 | 2024-07-06 | 2025-07-05 |

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| Radiated Spurious Emissions Above 1GHz | | | | | |
|---|---|---|---|---|---|
| **Equipment** | **Manufacturer** | **Model No.** | **Inventory No.** | **Cal Date** | **Cal Due Date** |
| Signal & Spectrum Analyzer | Rohde & Schwarz | FSV | SZ-WRG-M-048 | 2024-01-30 | 2025-01-29 |
| Low Noise Amplifier 1G-18GHz | Tonscend | TAP01018050 | SZ-WRG-M-051 | 2024-01-30 | 2025-01-29 |
| Low Noise Amplifier 18G-40GHz | Tonscend | TAP18040048 | SZ-WRG-M-052 | 2024-01-30 | 2025-01-29 |
| Double Ridge Horn Antenna 1GHz-18GHz | SCHWARZBECK | BBHA 9120 D | SZ-WRG-M-055 | 2023-12-21 | 2025-12-20 |
| SHF-EHF Horn 15GHz-40GHz | SCHWARZBECK | BBHA 9170 | SZ-WRG-M-056 | 2023-12-25 | 2025-12-24 |
| RSE Test Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A |
| Chamber | CRTSGSSAC966 | N/A | SZ-WRG-C-063 | 2022-01-05 | 2025-01-04 |
| Humidity and Temperature Indicator | deli | 8838 | SEM002-46 | 2024-07-24 | 2025-07-23 |

| RF Conducted Test | | | | | |
|---|---|---|---|---|---|
| **Equipment** | **Manufacturer** | **Model No.** | **Inventory No.** | **Cal Date** | **Cal Due Date** |
| Power Sensor | TST PASS | TSPS2023R | SEM009-26 | 2024-03-27 | 2025-03-26 |
| Power Sensor | KEYSIGHT | U2021XA | SEM009-16 | 2024-03-14 | 2025-03-13 |
| DC Power Supply | Chroma | 62012P-80-60 | SEM011-11 | 2024-08-14 | 2025-08-13 |
| MXA Signal Analyzer | KEYSIGHT | N9020A | SEM004-19 | 2024-03-14 | 2025-03-13 |
| Measurement Software | TST PASS | TST PASS V2.0 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM031-01 | 2024-07-06 | 2025-07-05 |
| Attenuator | Huber+Suhner | 6620_SMA-50-1 | SEM021-09 | 2024-03-27 | 2025-03-26 |

| General used equipment | | | | | |
|---|---|---|---|---|---|
| **Equipment** | **Manufacturer** | **Model No.** | **Inventory No.** | **Cal Date** | **Cal Due Date** |
| Humidity/ Temperature Indicator | deli | 8838 | SEM002-32 | 2024-07-24 | 2025-07-23 |
| Humidity/ Temperature Indicator | deli | 8838 | SEM002-33 | 2024-07-24 | 2025-07-23 |
| Barometer | Changchun Meteorological Industry Factory | DYM3 | SEM002-01 | 2024-03-18 | 2025-03-17 |

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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:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is a IFA Antenna, and the connection port is fixed with glue, and the antenna cannot be replaced.

The best-case gain of the antenna is -1dBi(Ant8).*

**Note:*

*The antenna gain are derived from the gain information report provided by the manufacturer.*

*Remark:*

*As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.*

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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: 22.5 °C Humidity: 44.5 % RH Atmospheric Pressure: 1020 mbar

### 7.1.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|---|---|---|
| Final test | 08 | Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested. Only the data of worst case is recorded in the report. |

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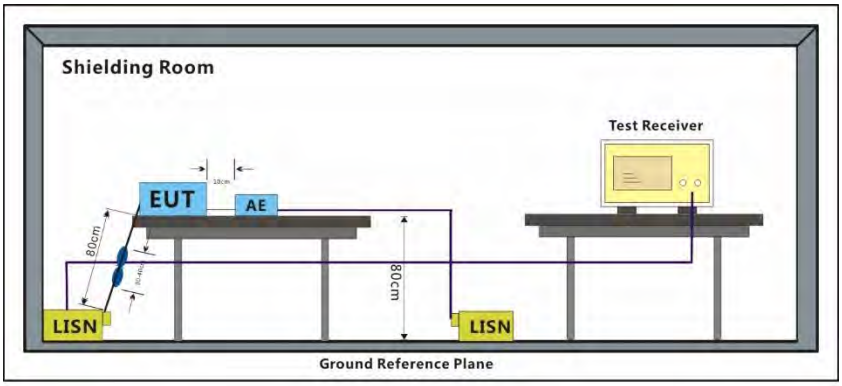
### 7.1.3 Test Setup Diagram




### 7.1.4 Measurement Procedure and Data

1) The mains terminal disturbance voltage test was conducted in a shielded room.

2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.

4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

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

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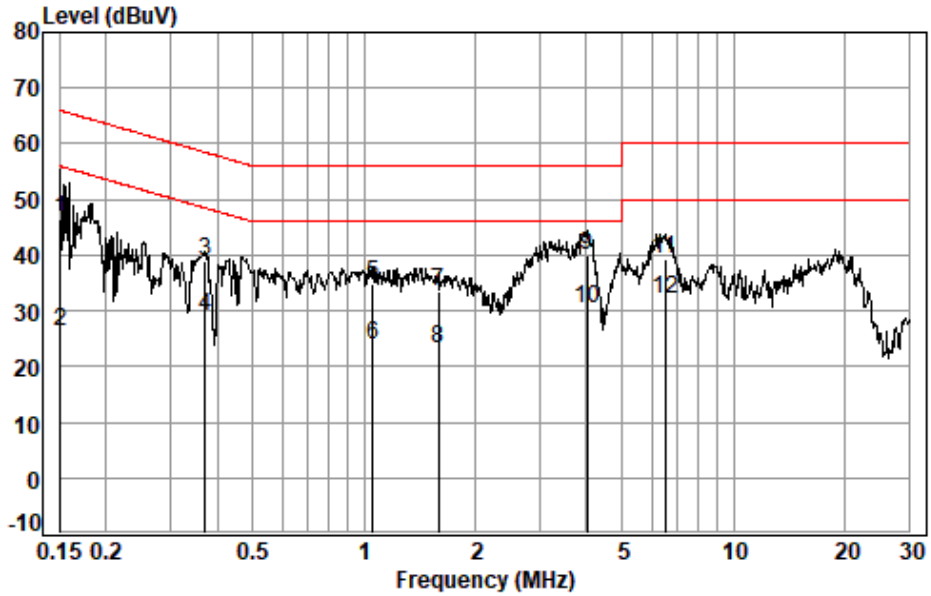
Test Mode: 08; Line: Live line




Site : Shielding Room
Condition: Line
Job No. : 03959WM
Test mode: 08

| | Freq | Cable Loss | LISN Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| 1 | 0.1508 | 0.06 | 10.19 | 36.36 | 46.61 | 65.96 | -19.35 | QP |
| 2 | 0.1508 | 0.06 | 10.19 | 16.12 | 26.37 | 55.96 | -29.59 | Average |
| 3 | 0.3712 | 0.07 | 9.72 | 29.25 | 39.04 | 58.47 | -19.43 | QP |
| 4 | 0.3712 | 0.07 | 9.72 | 19.10 | 28.89 | 48.47 | -19.58 | Average |
| 5 | 1.0541 | 0.09 | 9.58 | 25.32 | 34.99 | 56.00 | -21.01 | QP |
| 6 | 1.0541 | 0.09 | 9.58 | 14.04 | 23.71 | 46.00 | -22.29 | Average |
| 7 | 1.5935 | 0.10 | 9.58 | 23.84 | 33.52 | 56.00 | -22.48 | QP |
| 8 | 1.5935 | 0.10 | 9.58 | 13.43 | 23.11 | 46.00 | -22.89 | Average |
| 9 * | 4.0062 | 0.12 | 9.66 | 30.18 | 39.96 | 56.00 | -16.04 | QP |
| 10 * | 4.0062 | 0.12 | 9.66 | 20.46 | 30.24 | 46.00 | -15.76 | Average |
| 11 | 6.5227 | 0.15 | 9.68 | 29.34 | 39.17 | 60.00 | -20.83 | QP |
| 12 | 6.5227 | 0.15 | 9.68 | 22.12 | 31.95 | 50.00 | -18.05 | Average |

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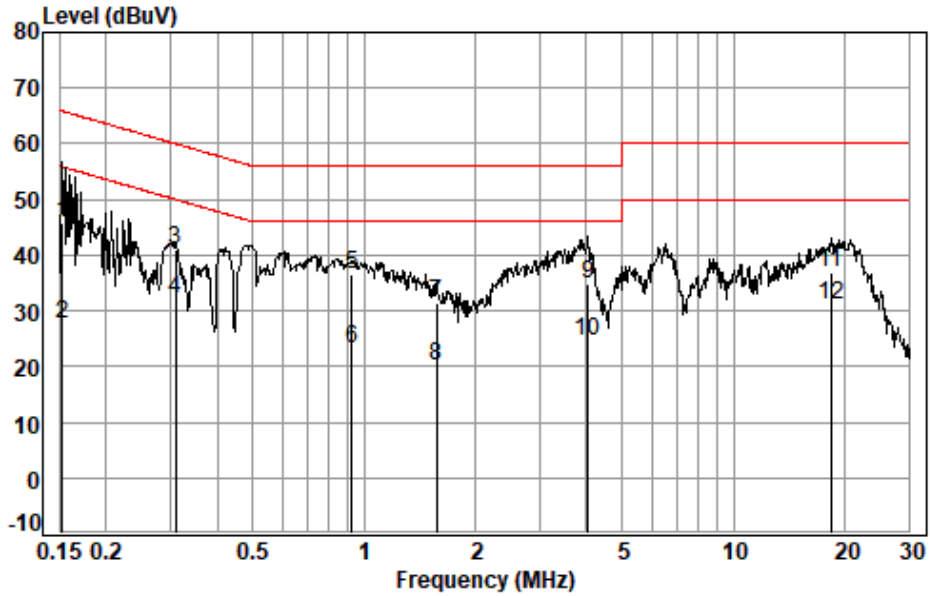
Test Mode: 08; Line: Neutral Line




Site : Shielding Room
Condition: Neutral
Job No. : 03959WM
Test mode: 08

| | Freq | Cable Loss | LISN Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| 1 | 0.1524 | 0.06 | 10.15 | 35.64 | 45.85 | 65.87 | -20.02 | QP |
| 2 | 0.1524 | 0.06 | 10.15 | 17.40 | 27.61 | 55.87 | -28.26 | Average |
| 3 * | 0.3083 | 0.07 | 9.77 | 31.21 | 41.05 | 60.02 | -18.97 | QP |
| 4 * | 0.3083 | 0.07 | 9.77 | 22.40 | 32.24 | 50.02 | -17.78 | Average |
| 5 | 0.9282 | 0.09 | 9.56 | 26.98 | 36.63 | 56.00 | -19.37 | QP |
| 6 | 0.9282 | 0.09 | 9.56 | 13.50 | 23.15 | 46.00 | -22.85 | Average |
| 7 | 1.5684 | 0.10 | 9.55 | 21.74 | 31.39 | 56.00 | -24.61 | QP |
| 8 | 1.5684 | 0.10 | 9.55 | 10.50 | 20.15 | 46.00 | -25.85 | Average |
| 9 | 4.0489 | 0.12 | 9.55 | 25.28 | 34.95 | 56.00 | -21.05 | QP |
| 10 | 4.0489 | 0.12 | 9.55 | 14.91 | 24.58 | 46.00 | -21.42 | Average |
| 11 | 18.3284 | 0.29 | 10.06 | 26.41 | 36.76 | 60.00 | -23.24 | QP |
| 12 | 18.3284 | 0.29 | 10.06 | 20.80 | 31.15 | 50.00 | -18.85 | Average |

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## 7.2 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. | | |

### 7.2.1 E.U.T. Operation

Operating Environment:
Temperature: 24.5 °C Humidity: 50.8 % RH Atmospheric Pressure: 1020 mbar

### 7.2.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|---|---|---|
| Final test | 08 | Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested. Only the data of worst case is recorded in the report. |

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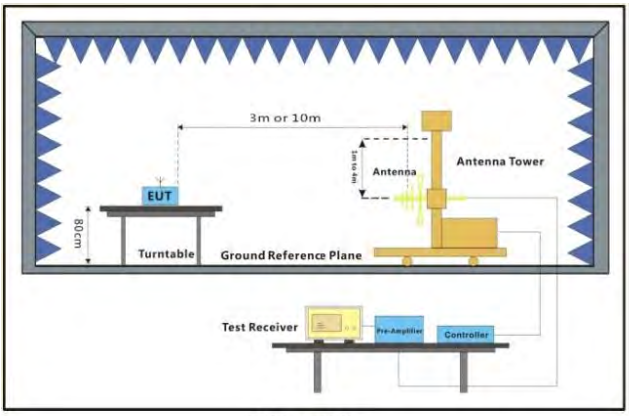
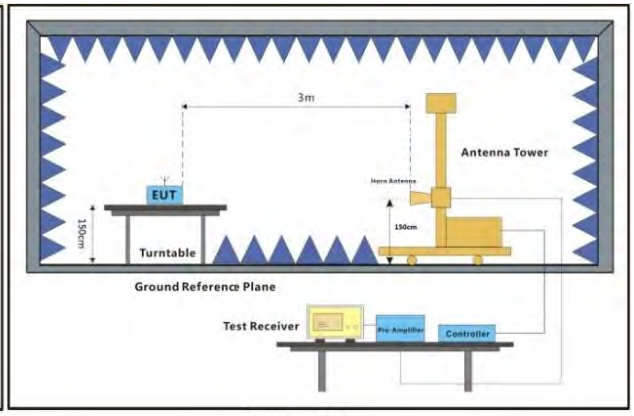
### 7.2.3 Test Setup Diagram




30MHz-1GHz




Above 1GHz

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### 7.2.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

h. Test the EUT in the lowest channel, the middle channel, the Highest channel.

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.

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

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

Remark 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

Remark 4:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥1/T (Duty cycle＜98%) or 10Hz (Duty cycle≥98%) for Average detection (AV) at frequency above 1GHz.

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Inspection & Testing Services
SGS-CSTC Standards Technical Services Co., Ltd.
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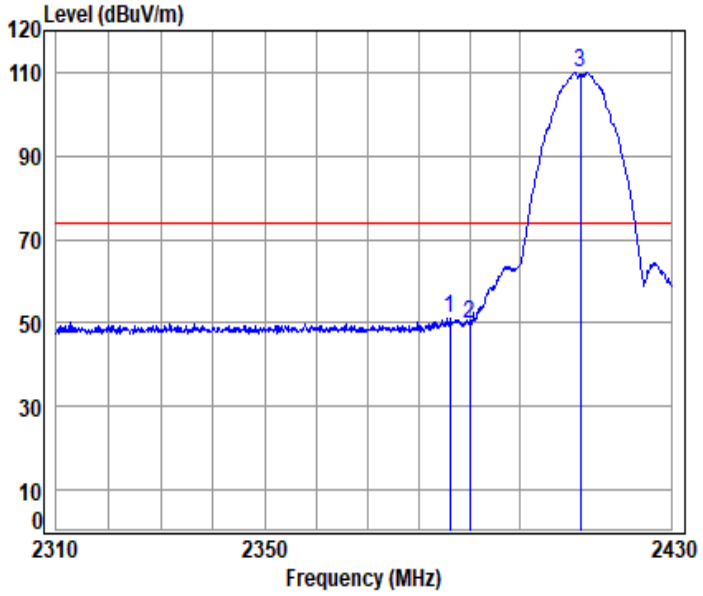
11b_TX_CH_01_Horizontal-Peak




Condition: 3m HORIZONTAL
Job No : 03959WM
Mode : 2412 Band edge
: 2.4G WIFI 11B

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 2386.098 | 6.82 | 27.44 | 31.54 | 48.51 | 51.23 | 74.00 | -22.77 | peak |
| 2 | 2390.000 | 6.82 | 27.46 | 31.54 | 47.02 | 49.76 | 74.00 | -24.24 | peak |
| 3 pp | 2412.000 | 6.91 | 27.52 | 31.54 | 106.96 | 109.85 | 74.00 | 35.85 | peak |

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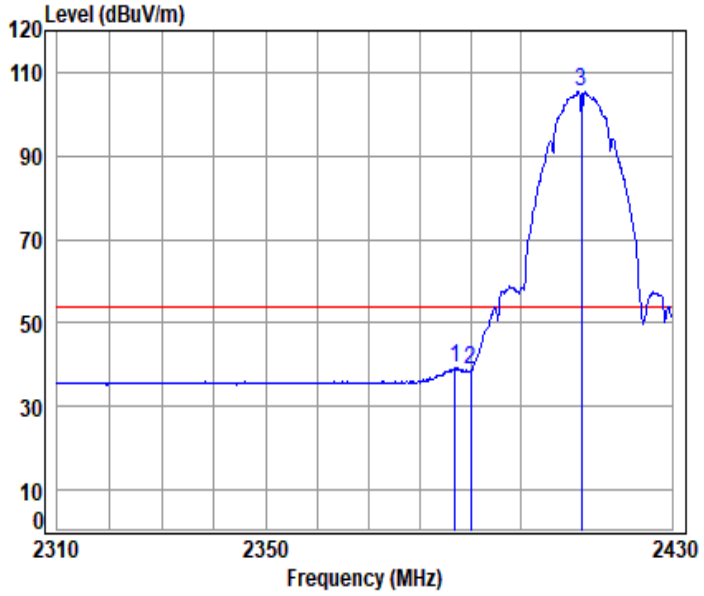
11b_TX_CH_01_Horizontal-Avg




Condition: 3m HORIZONTAL
Job No : 03959WM
Mode : 2412 Band edge
: 2.4G WIFI 11B

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 2386.944 | 6.82 | 27.45 | 31.54 | 36.58 | 39.31 | 54.00 | -14.69 | Average |
| 2 | 2390.000 | 6.82 | 27.46 | 31.54 | 35.92 | 38.66 | 54.00 | -15.34 | Average |
| 3 pp | 2412.000 | 6.91 | 27.52 | 31.54 | 102.52 | 105.41 | 54.00 | 51.41 | Average |

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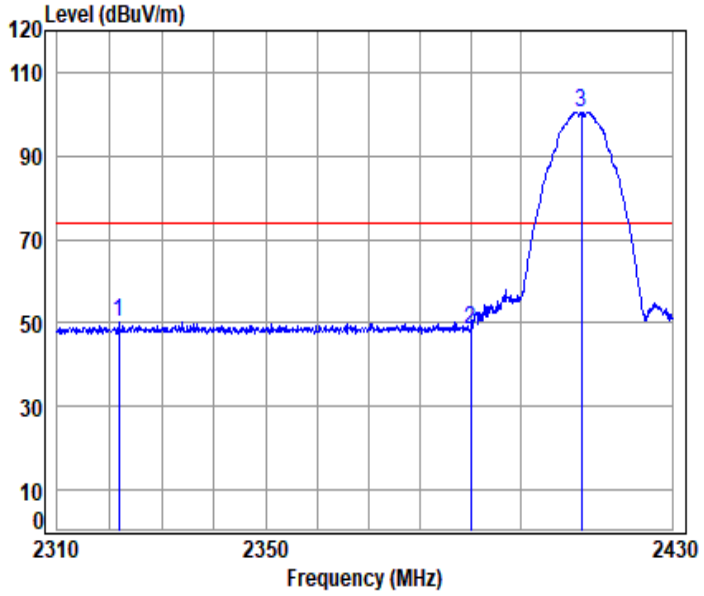
11b_TX_CH_01_Vertical-Peak




Condition: 3m VERTICAL
Job No : 03959WM
Mode : 2412 Band edge
: 2.4G WIFI 11B

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 2321.728 | 6.79 | 27.24 | 31.53 | 47.59 | 50.09 | 74.00 | -23.91 | Peak |
| 2 | 2390.000 | 6.82 | 27.46 | 31.54 | 45.72 | 48.46 | 74.00 | -25.54 | Peak |
| 3 pp | 2412.000 | 6.91 | 27.52 | 31.54 | 97.57 | 100.46 | 74.00 | 26.46 | Peak |

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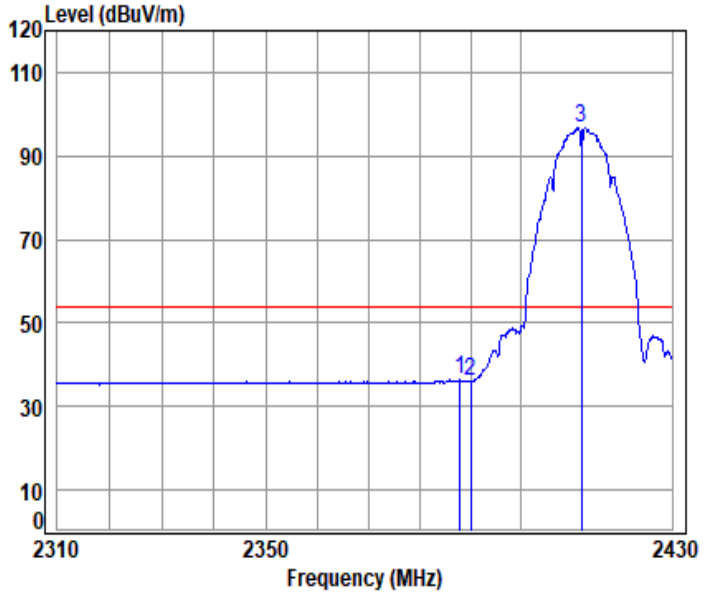
11b_TX_CH_01_Vertical-Avg




Condition: 3m VERTICAL
Job No : 03959WM
Mode : 2412 Band edge
: 2.4G WIFI 11B

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 2387.912 | 6.82 | 27.45 | 31.54 | 33.60 | 36.33 | 54.00 | -17.67 | Average |
| 2 | 2390.000 | 6.82 | 27.46 | 31.54 | 33.28 | 36.02 | 54.00 | -17.98 | Average |
| 3 pp | 2412.000 | 6.91 | 27.52 | 31.54 | 94.01 | 96.90 | 54.00 | 42.90 | Average |

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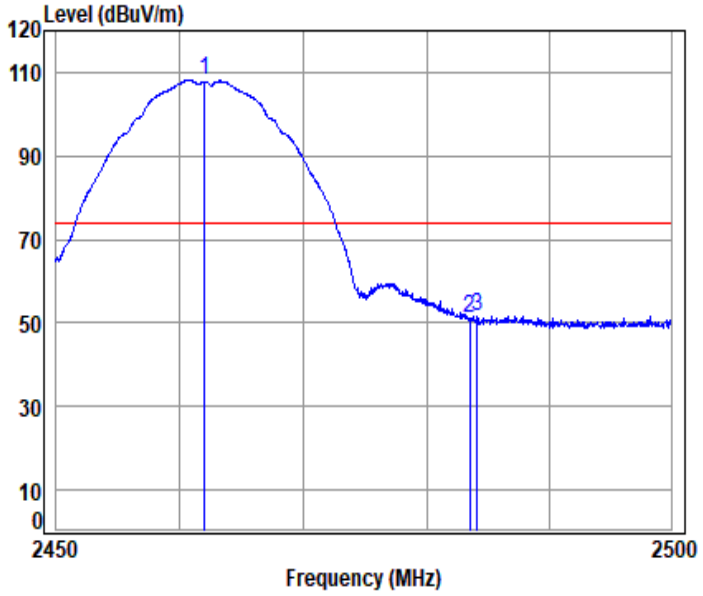
11b_TX_CH_11_Horizontal-Peak




Condition: 3m HORIZONTAL
Job No : 03959WM
Mode : 2462 Band edge
: 2.4G WIFI 11B

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 pp | 2462.000 | 7.25 | 27.67 | 31.55 | 104.75 | 108.12 | 74.00 | 34.12 | peak |
| 2 | 2483.500 | 7.40 | 27.80 | 31.55 | 47.50 | 51.15 | 74.00 | -22.85 | peak |
| 3 | 2484.141 | 7.40 | 27.80 | 31.55 | 48.00 | 51.65 | 74.00 | -22.35 | peak |

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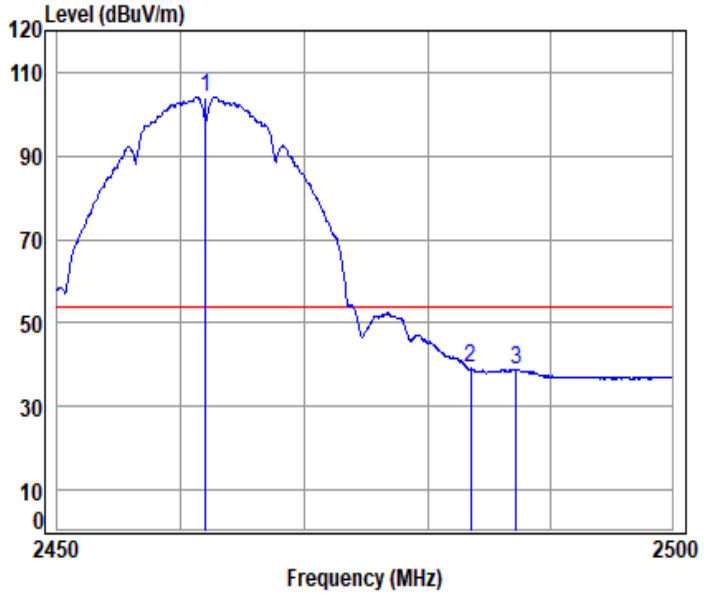
11b_TX_CH_11_Horizontal-Avg




Condition: 3m HORIZONTAL
Job No : 03959WM
Mode : 2462 Band edge
: 2.4G WIFI 11B

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 pp | 2462.000 | 7.25 | 27.67 | 31.55 | 100.75 | 104.12 | 54.00 | 50.12 | Average |
| 2 | 2483.500 | 7.40 | 27.80 | 31.55 | 35.43 | 39.08 | 54.00 | -14.92 | Average |
| 3 | 2487.254 | 7.42 | 27.82 | 31.55 | 35.17 | 38.86 | 54.00 | -15.14 | Average |

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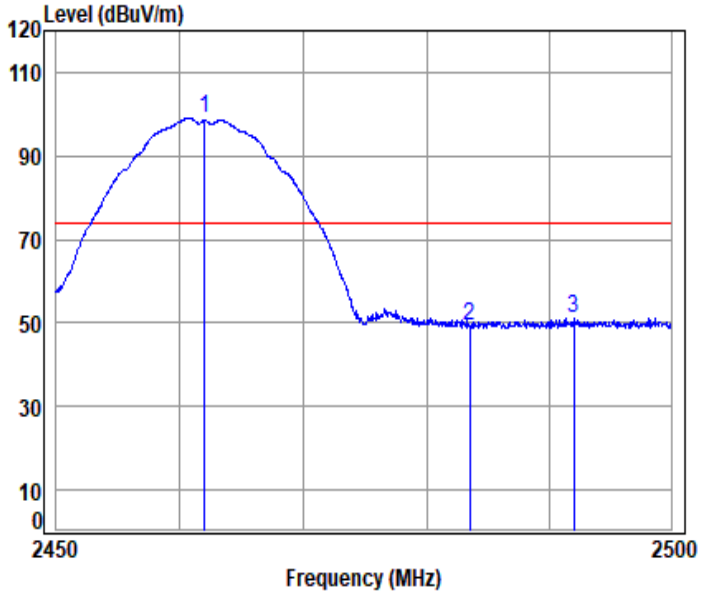
11b_TX_CH_11_Vertical-Peak




Condition: 3m VERTICAL
Job No : 03959WM
Mode : 2462 Band edge
: 2.4G WIFI 11B

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 pp | 2462.000 | 7.25 | 27.67 | 31.55 | 95.55 | 98.92 | 74.00 | 24.92 | Peak |
| 2 | 2483.500 | 7.40 | 27.80 | 31.55 | 45.63 | 49.28 | 74.00 | -24.72 | Peak |
| 3 | 2492.033 | 7.46 | 27.85 | 31.55 | 47.33 | 51.09 | 74.00 | -22.91 | Peak |

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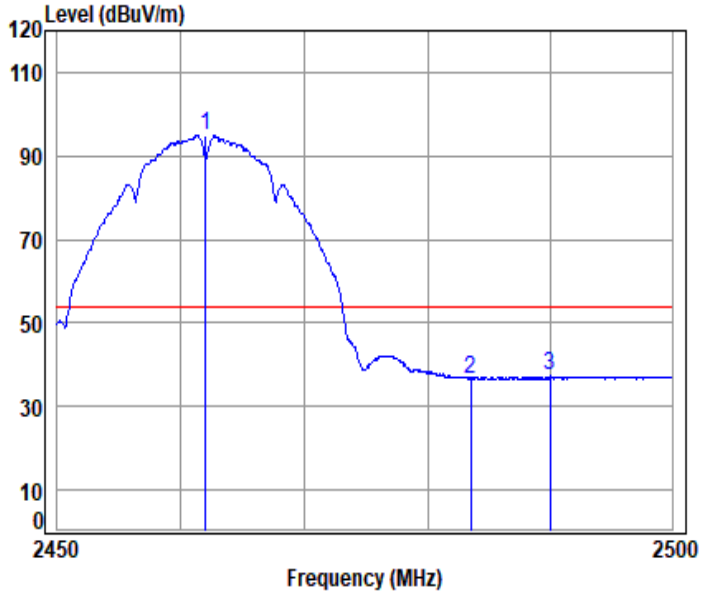
11b_TX_CH_11_Vertical-Avg




Condition: 3m VERTICAL
Job No : 03959WM
Mode : 2462 Band edge
: 2.4G WIFI 11B

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 pp | 2462.000 | 7.25 | 27.67 | 31.55 | 91.43 | 94.80 | 54.00 | 40.80 | Average |
| 2 | 2483.500 | 7.40 | 27.80 | 31.55 | 33.06 | 36.71 | 54.00 | -17.29 | Average |
| 3 | 2489.969 | 7.44 | 27.84 | 31.55 | 33.48 | 37.21 | 54.00 | -16.79 | Average |

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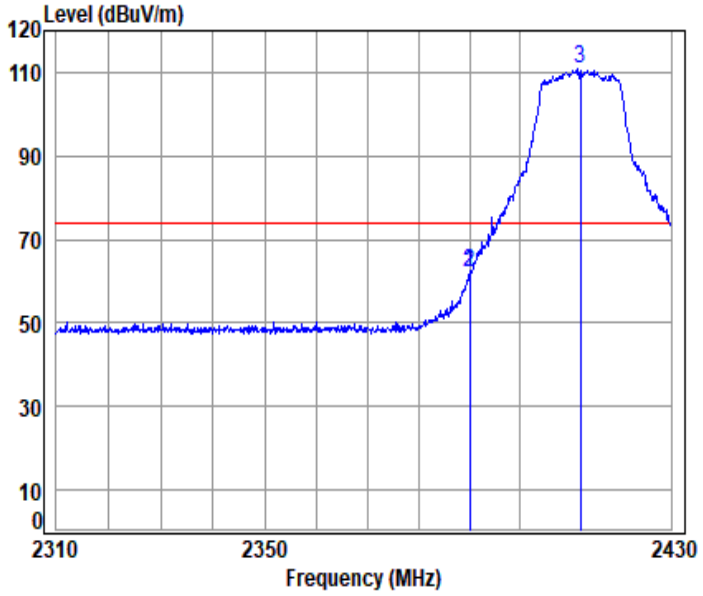
11g_TX_CH_01_Horizontal-Peak




Condition: 3m HORIZONTAL
Job No : 03959WM
Mode : 2412 Band edge
: 2.4G WIFI 11G

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 2389.968 | 6.82 | 27.46 | 31.54 | 59.50 | 62.24 | 74.00 | -11.76 | peak |
| 2 | 2390.000 | 6.82 | 27.46 | 31.54 | 59.50 | 62.24 | 74.00 | -11.76 | peak |
| 3 pp | 2412.000 | 6.91 | 27.52 | 31.54 | 107.78 | 110.67 | 74.00 | 36.67 | peak |

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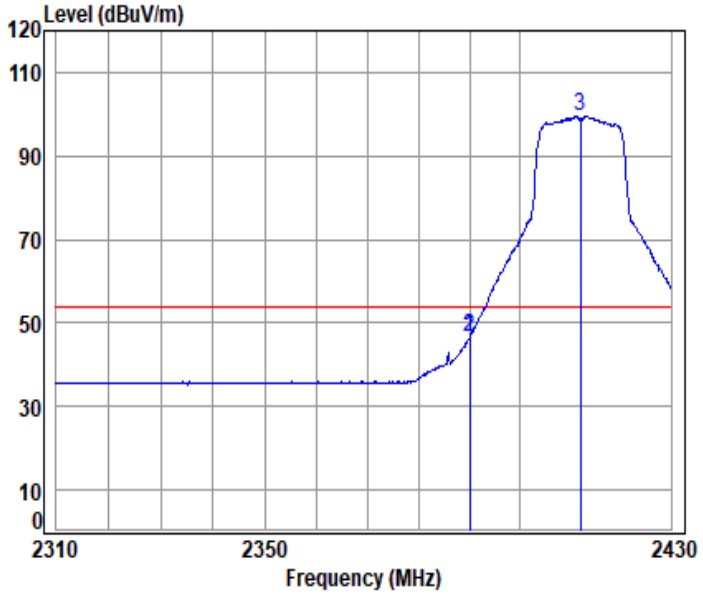
11g_TX_CH_01_Horizontal-Avg




Condition: 3m HORIZONTAL
Job No : 03959WM
Mode : 2412 Band edge
: 2.4G WIFI 11G

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 2389.968 | 6.82 | 27.46 | 31.54 | 43.85 | 46.59 | 54.00 | -7.41 | Average |
| 2 | 2390.000 | 6.82 | 27.46 | 31.54 | 43.85 | 46.59 | 54.00 | -7.41 | Average |
| 3 pp | 2412.000 | 6.91 | 27.52 | 31.54 | 96.65 | 99.54 | 54.00 | 45.54 | Average |

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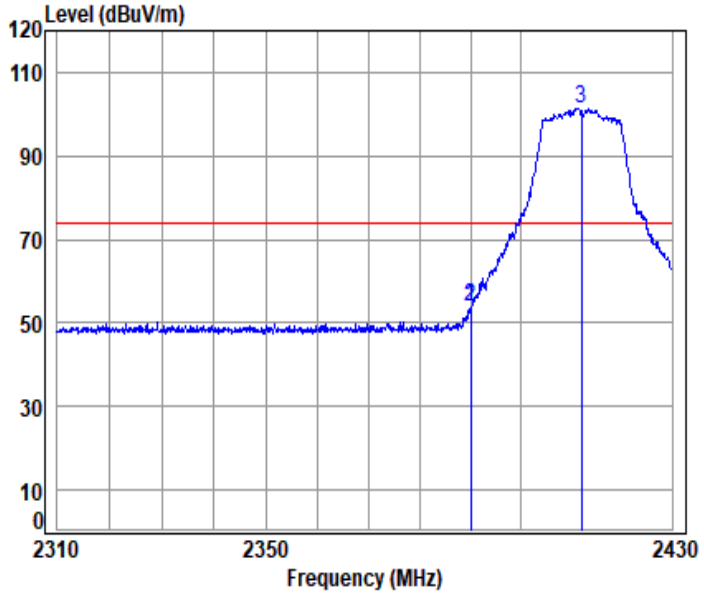
11g_TX_CH_01_Vertical-Peak




Condition: 3m VERTICAL
Job No : 03959WM
Mode : 2412 Band edge
: 2.4G WIFI 11G

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 2389.968 | 6.82 | 27.46 | 31.54 | 51.09 | 53.83 | 74.00 | -20.17 | Peak |
| 2 | 2390.000 | 6.82 | 27.46 | 31.54 | 51.09 | 53.83 | 74.00 | -20.17 | Peak |
| 3 pp | 2412.000 | 6.91 | 27.52 | 31.54 | 98.50 | 101.39 | 74.00 | 27.39 | Peak |

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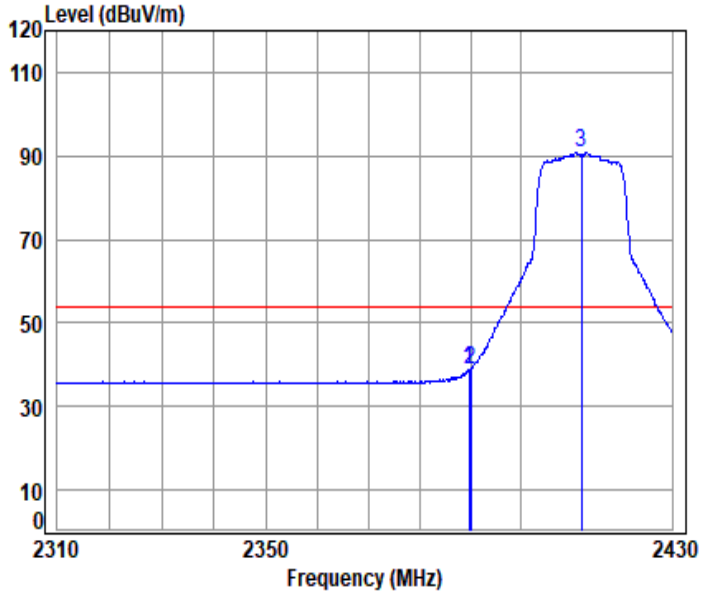
11g_TX_CH_01_Vertical-Avg




Condition: 3m VERTICAL
Job No : 03959WM
Mode : 2412 Band edge
: 2.4G WIFI 11G

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 2389.726 | 6.82 | 27.46 | 31.54 | 36.00 | 38.74 | 54.00 | -15.26 | Average |
| 2 | 2390.000 | 6.82 | 27.46 | 31.54 | 35.95 | 38.69 | 54.00 | -15.31 | Average |
| 3 pp | 2412.000 | 6.91 | 27.52 | 31.54 | 87.85 | 90.74 | 54.00 | 36.74 | Average |

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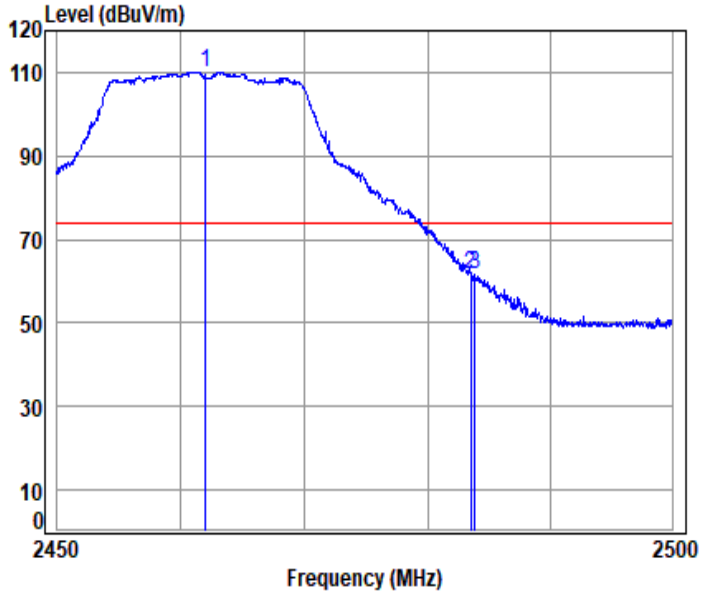
11g_TX_CH_11_Horizontal-Peak




Condition: 3m HORIZONTAL
Job No : 03959WM
Mode : 2462 Band edge
: 2.4G WIFI 11G

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 pp | 2462.000 | 7.25 | 27.67 | 31.55 | 106.81 | 110.18 | 74.00 | 36.18 | peak |
| 2 | 2483.500 | 7.40 | 27.80 | 31.55 | 58.06 | 61.71 | 74.00 | -12.29 | peak |
| 3 | 2483.840 | 7.40 | 27.80 | 31.55 | 57.78 | 61.43 | 74.00 | -12.57 | peak |

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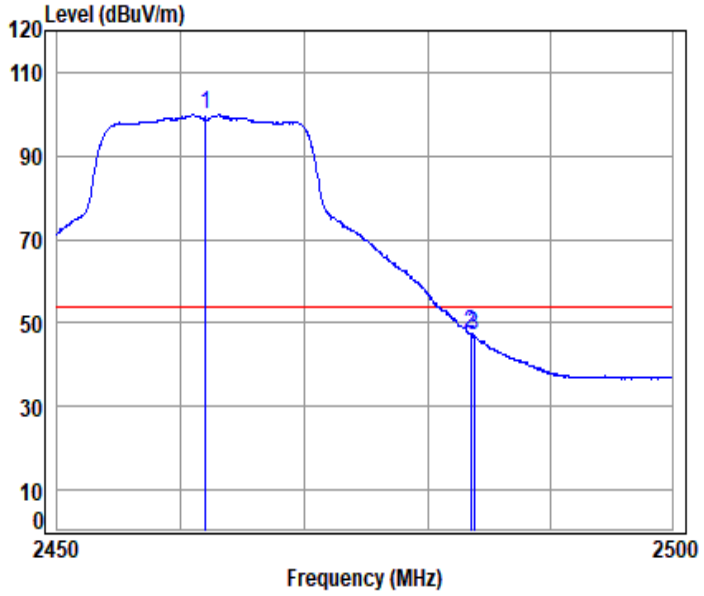
11g_TX_CH_11_Horizontal-Avg




Condition: 3m HORIZONTAL
Job No : 03959WM
Mode : 2462 Band edge
: 2.4G WIFI 11G

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 pp | 2462.000 | 7.25 | 27.67 | 31.55 | 96.43 | 99.80 | 54.00 | 45.80 | Average |
| 2 | 2483.500 | 7.40 | 27.80 | 31.55 | 43.99 | 47.64 | 54.00 | -6.36 | Average |
| 3 | 2483.790 | 7.40 | 27.80 | 31.55 | 43.16 | 46.81 | 54.00 | -7.19 | Average |

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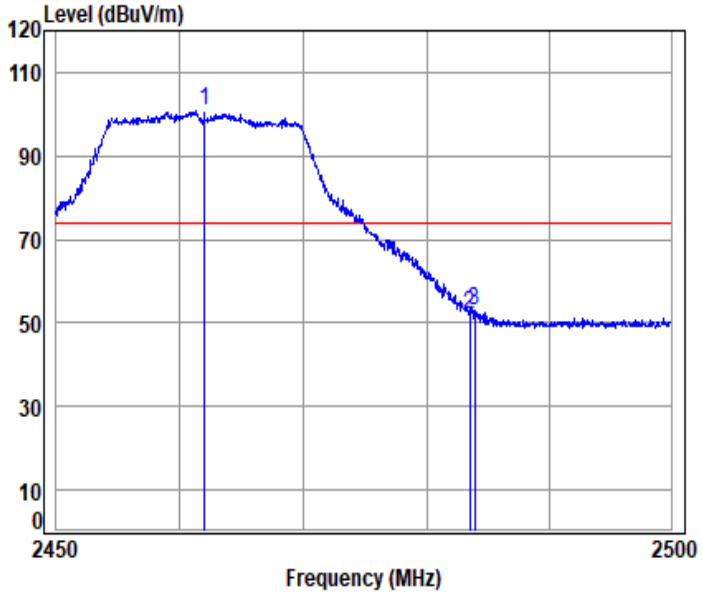
11g_TX_CH_11_Vertical-Peak




Condition: 3m VERTICAL
Job No : 03959WM
Mode : 2462 Band edge
: 2.4G WIFI 11G

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 pp | 2462.000 | 7.25 | 27.67 | 31.55 | 97.34 | 100.71 | 74.00 | 26.71 | Peak |
| 2 | 2483.500 | 7.40 | 27.80 | 31.55 | 48.47 | 52.12 | 74.00 | -21.88 | Peak |
| 3 | 2483.940 | 7.40 | 27.80 | 31.55 | 49.21 | 52.86 | 74.00 | -21.14 | Peak |

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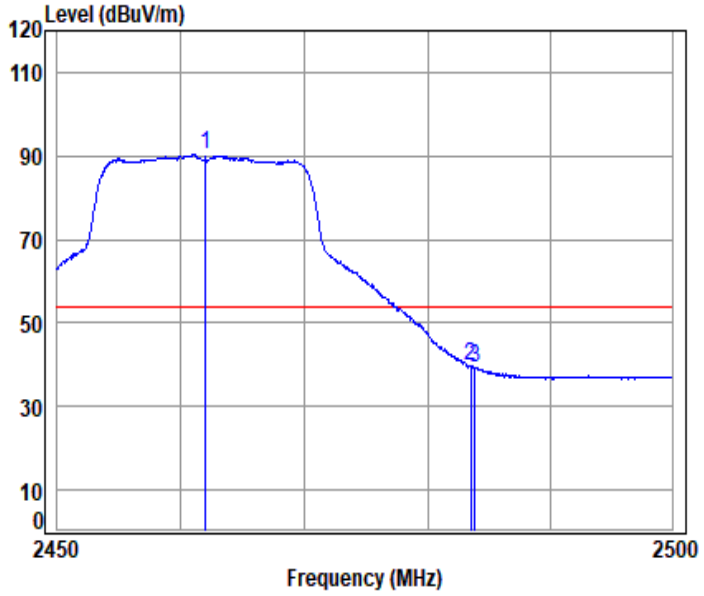
11g_TX_CH_11_Vertical-Avg




Condition: 3m VERTICAL
Job No : 03959WM
Mode : 2462 Band edge
: 2.4G WIFI 11G

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 pp | 2462.000 | 7.25 | 27.67 | 31.55 | 86.88 | 90.25 | 54.00 | 36.25 | Average |
| 2 | 2483.500 | 7.40 | 27.80 | 31.55 | 36.11 | 39.76 | 54.00 | -14.24 | Average |
| 3 | 2483.890 | 7.40 | 27.80 | 31.55 | 35.65 | 39.30 | 54.00 | -14.70 | Average |

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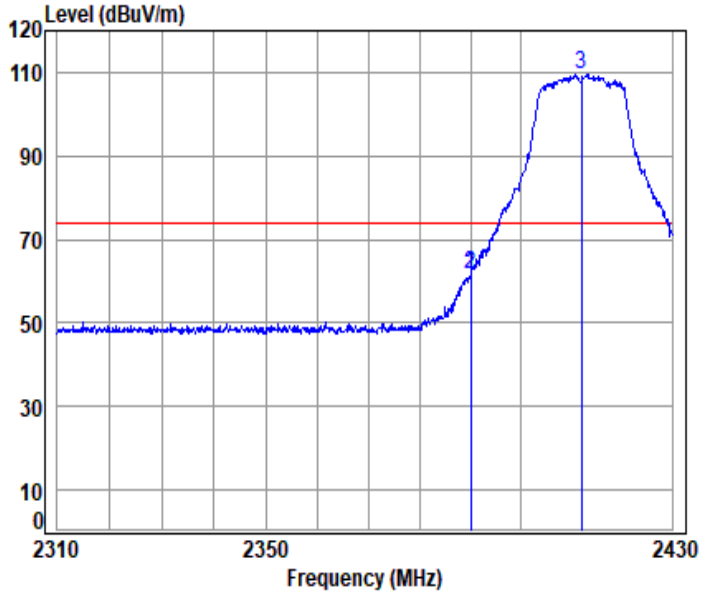
11n_HT(20M)_TX_CH_01_Horizontal-Peak




Condition: 3m HORIZONTAL
Job No : 03959WM
Mode : 2412 Band edge
: 2.4G WIFI 11N20

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 2389.968 | 6.82 | 27.46 | 31.54 | 58.98 | 61.72 | 74.00 | -12.28 | peak |
| 2 | 2390.000 | 6.82 | 27.46 | 31.54 | 58.98 | 61.72 | 74.00 | -12.28 | peak |
| 3 pp | 2412.000 | 6.91 | 27.52 | 31.54 | 106.47 | 109.36 | 74.00 | 35.36 | peak |

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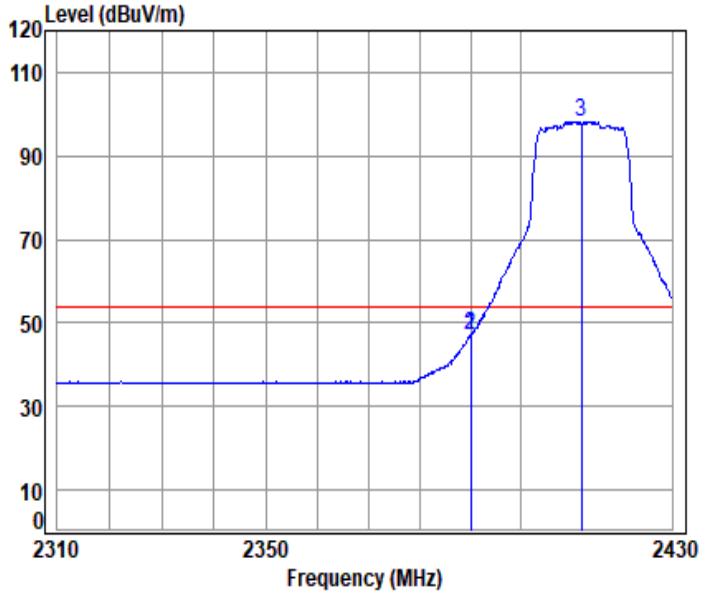


Condition: 3m HORIZONTAL
Job No : 03959WM
Mode : 2412 Band edge
: 2.4G WIFI 11N20

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 2389.968 | 6.82 | 27.46 | 31.54 | 44.33 | 47.07 | 54.00 | -6.93 | Average |
| 2 | 2390.000 | 6.82 | 27.46 | 31.54 | 44.33 | 47.07 | 54.00 | -6.93 | Average |
| 3 pp | 2412.000 | 6.91 | 27.52 | 31.54 | 95.38 | 98.27 | 54.00 | 44.27 | Average |

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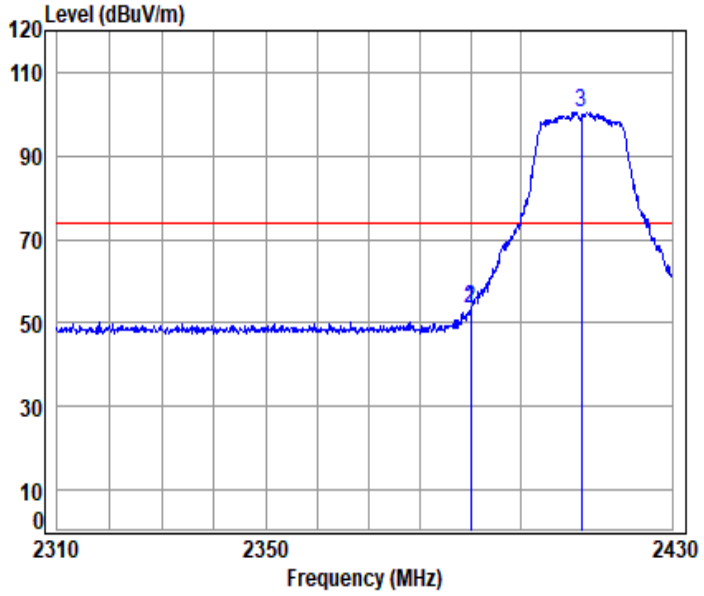
11n_HT(20M)_TX_CH_01_Vertical-Peak




Condition: 3m VERTICAL
Job No : 03959WM
Mode : 2412 Band edge
: 2.4G WIFI 11N20

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 2389.968 | 6.82 | 27.46 | 31.54 | 50.62 | 53.36 | 74.00 | -20.64 | Peak |
| 2 | 2390.000 | 6.82 | 27.46 | 31.54 | 50.62 | 53.36 | 74.00 | -20.64 | Peak |
| 3 pp | 2412.000 | 6.91 | 27.52 | 31.54 | 97.70 | 100.59 | 74.00 | 26.59 | Peak |

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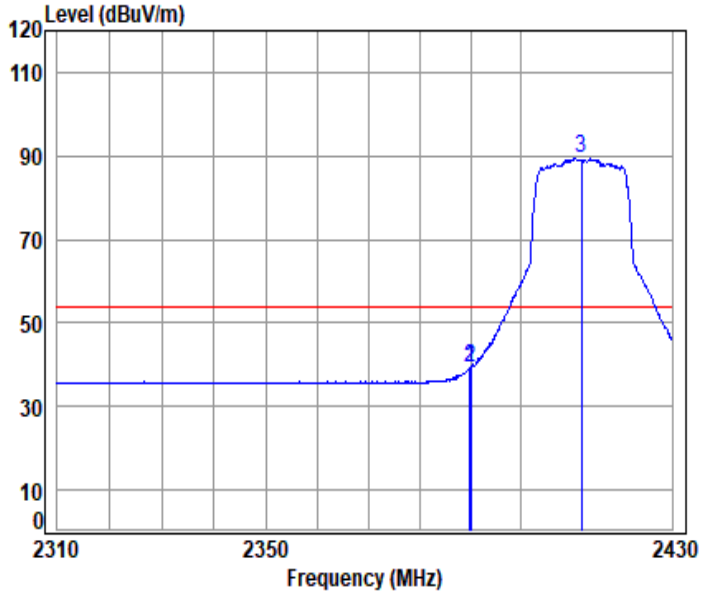
11n_HT(20M)_TX_CH_01_Vertical-Avg




Condition: 3m VERTICAL
Job No : 03959WM
Mode : 2412 Band edge
: 2.4G WIFI 11N20

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 2389.847 | 6.82 | 27.46 | 31.54 | 36.46 | 39.20 | 54.00 | -14.80 | Average |
| 2 | 2390.000 | 6.82 | 27.46 | 31.54 | 36.30 | 39.04 | 54.00 | -14.96 | Average |
| 3 pp | 2412.000 | 6.91 | 27.52 | 31.54 | 86.50 | 89.39 | 54.00 | 35.39 | Average |

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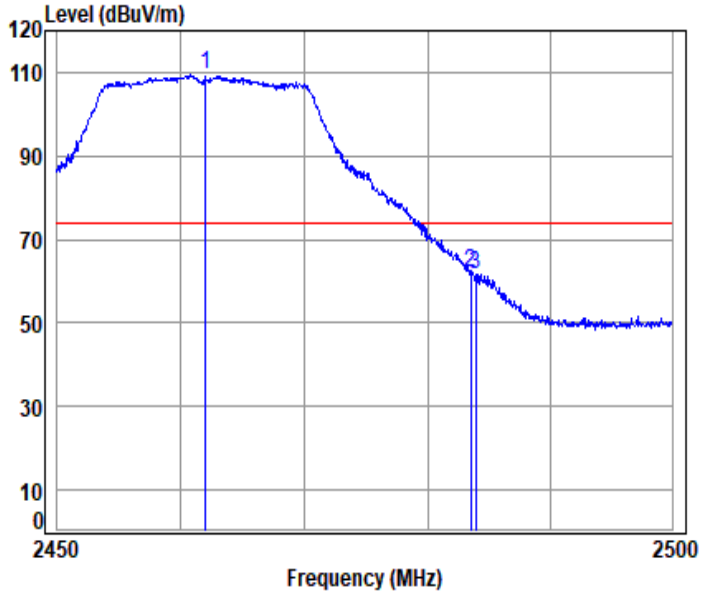
11n_HT(20M)_TX_CH_11_Horizontal-Peak




Condition: 3m HORIZONTAL
Job No : 03959WM
Mode : 2462 Band edge
: 2.4G WIFI 11N20

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 pp | 2462.000 | 7.25 | 27.67 | 31.55 | 105.97 | 109.34 | 74.00 | 35.34 | peak |
| 2 | 2483.500 | 7.40 | 27.80 | 31.55 | 58.51 | 62.16 | 74.00 | -11.84 | peak |
| 3 | 2483.940 | 7.40 | 27.80 | 31.55 | 58.03 | 61.68 | 74.00 | -12.32 | peak |

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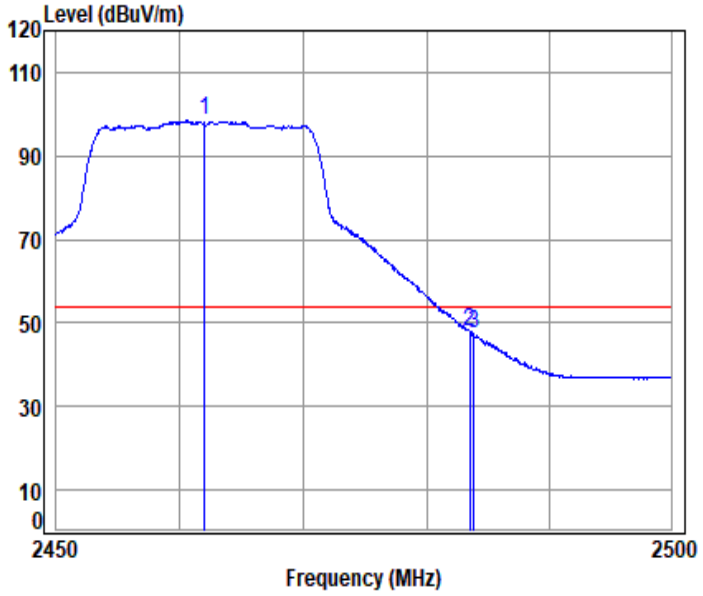
11n_HT(20M)_TX_CH_11_Horizontal-Avg




Condition: 3m HORIZONTAL
Job No : 03959WM
Mode : 2462 Band edge
: 2.4G WIFI 11N20

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 pp | 2462.000 | 7.25 | 27.67 | 31.55 | 95.07 | 98.44 | 54.00 | 44.44 | Average |
| 2 | 2483.500 | 7.40 | 27.80 | 31.55 | 44.46 | 48.11 | 54.00 | -5.89 | Average |
| 3 | 2483.890 | 7.40 | 27.80 | 31.55 | 43.60 | 47.25 | 54.00 | -6.75 | Average |

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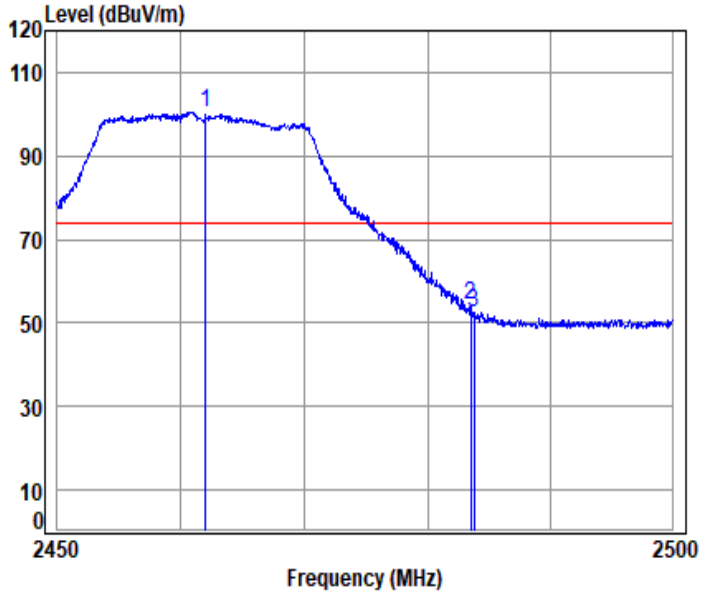
11n_HT(20M)_TX_CH_11_Vertical-Peak




Condition: 3m VERTICAL
Job No : 03959WM
Mode : 2462 Band edge
: 2.4G WIFI 11N20

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 pp | 2462.000 | 7.25 | 27.67 | 31.55 | 97.21 | 100.58 | 74.00 | 26.58 | Peak |
| 2 | 2483.500 | 7.40 | 27.80 | 31.55 | 50.63 | 54.28 | 74.00 | -19.72 | Peak |
| 3 | 2483.790 | 7.40 | 27.80 | 31.55 | 48.92 | 52.57 | 74.00 | -21.43 | Peak |

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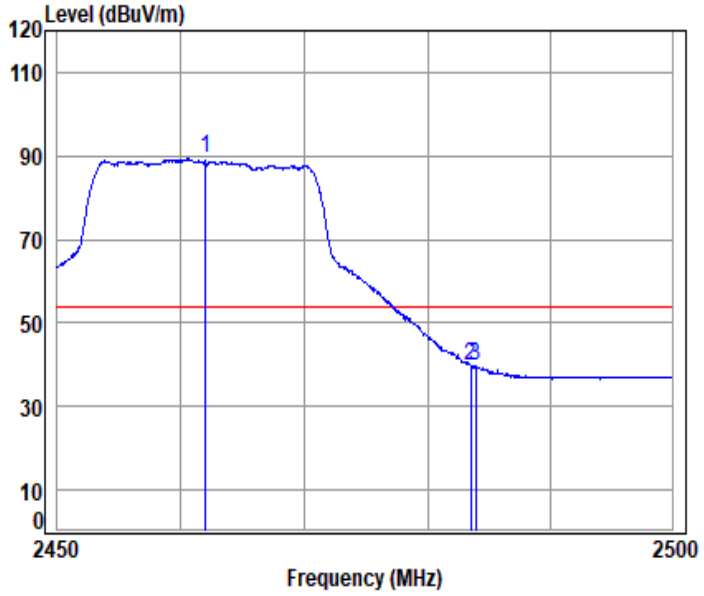
11n_HT(20M)_TX_CH_11_Vertical-Avg




Condition: 3m VERTICAL
Job No : 03959WM
Mode : 2462 Band edge
: 2.4G WIFI 11N20

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 pp | 2462.000 | 7.25 | 27.67 | 31.55 | 86.04 | 89.41 | 54.00 | 35.41 | Average |
| 2 | 2483.500 | 7.40 | 27.80 | 31.55 | 36.19 | 39.84 | 54.00 | -14.16 | Average |
| 3 | 2483.940 | 7.40 | 27.80 | 31.55 | 35.91 | 39.56 | 54.00 | -14.44 | Average |

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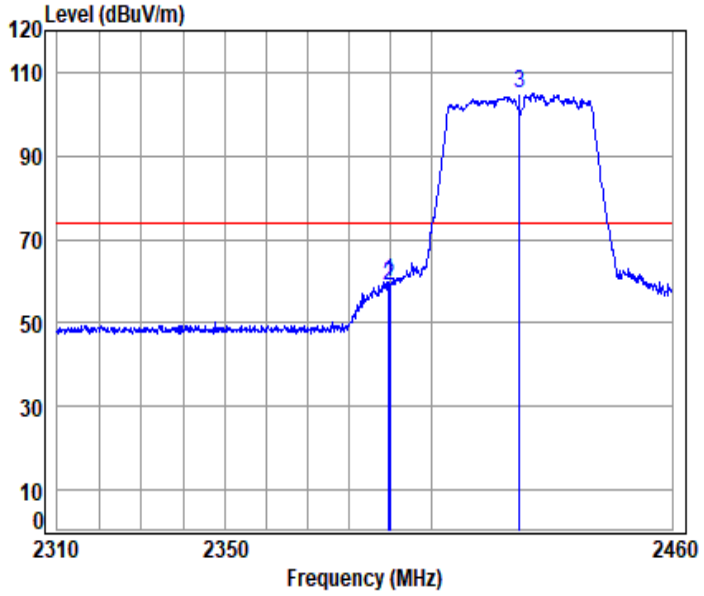
11n_HT(40M)_TX_CH_03_Horizontal-Peak




Condition: 3m HORIZONTAL
Job No : 03959WM
Mode : 2422 Band edge
: 2.4G WIFI 11N40

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 2389.827 | 6.82 | 27.46 | 31.54 | 56.99 | 59.73 | 74.00 | -14.27 | peak |
| 2 | 2390.000 | 6.82 | 27.46 | 31.54 | 56.11 | 58.85 | 74.00 | -15.15 | peak |
| 3 pp | 2422.000 | 6.98 | 27.54 | 31.54 | 102.09 | 105.07 | 74.00 | 31.07 | peak |

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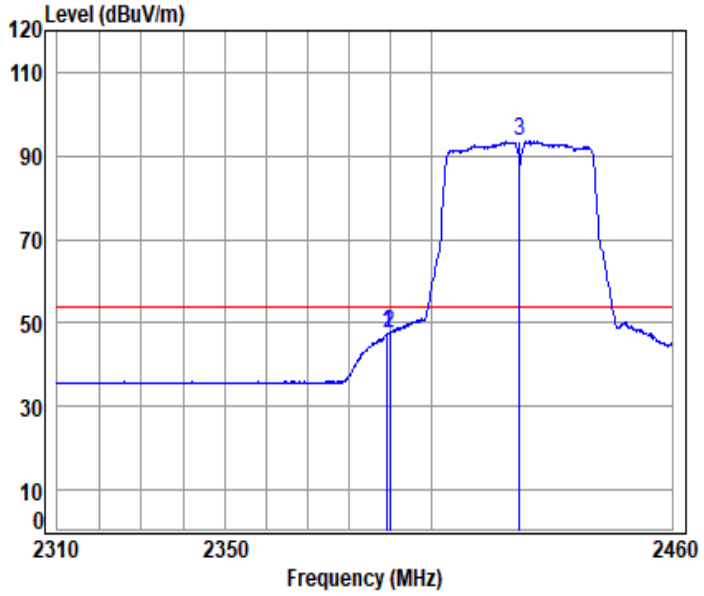
11n_HT(40M)_TX_CH_03_Horizontal-Avg




Condition: 3m HORIZONTAL
Job No : 03959WM
Mode : 2422 Band edge
: 2.4G WIFI 11N40

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 2389.376 | 6.82 | 27.46 | 31.54 | 44.83 | 47.57 | 54.00 | -6.43 | Average |
| 2 | 2390.000 | 6.82 | 27.46 | 31.54 | 44.87 | 47.61 | 54.00 | -6.39 | Average |
| 3 pp | 2422.000 | 6.98 | 27.54 | 31.54 | 90.42 | 93.40 | 54.00 | 39.40 | Average |

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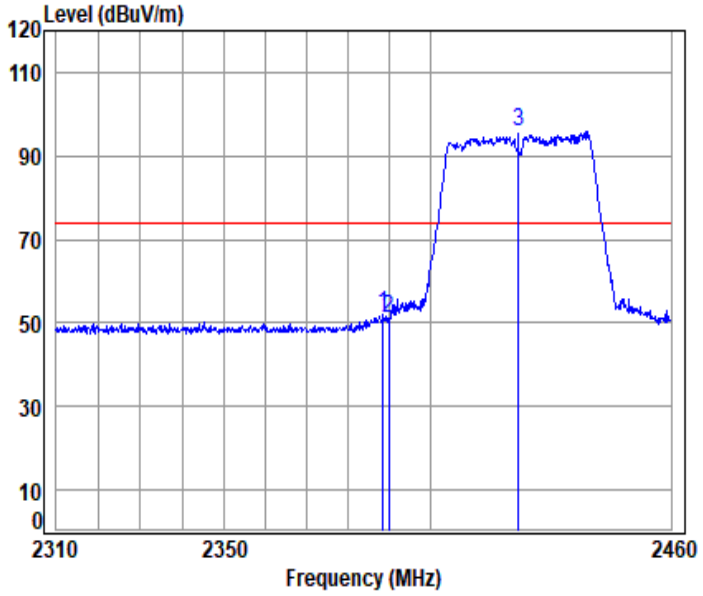


Condition: 3m VERTICAL
Job No : 03959WM
Mode : 2422 Band edge
: 2.4G WIFI 11N40

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 2388.625 | 6.82 | 27.45 | 31.54 | 49.46 | 52.19 | 74.00 | -21.81 | Peak |
| 2 | 2390.000 | 6.82 | 27.46 | 31.54 | 48.21 | 50.95 | 74.00 | -23.05 | Peak |
| 3 pp | 2422.000 | 6.98 | 27.54 | 31.54 | 92.64 | 95.62 | 74.00 | 21.62 | Peak |

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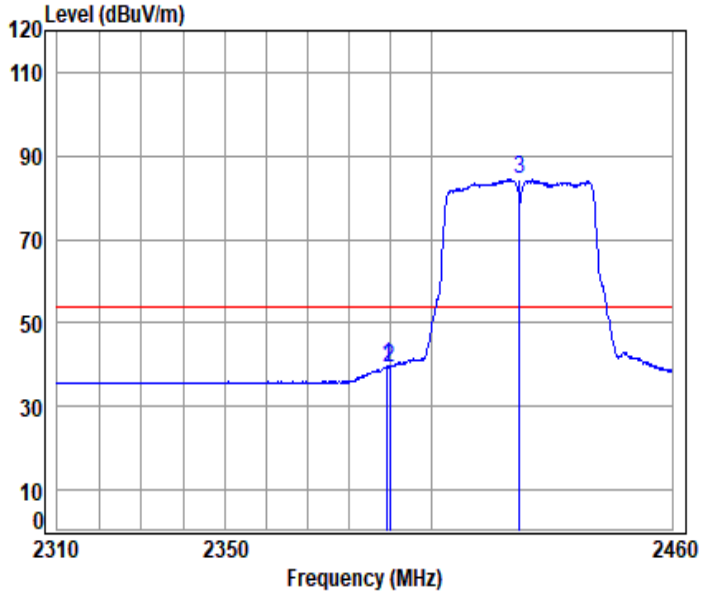
11n_HT(40M)_TX_CH_03_Vertical-Avg




Condition: 3m VERTICAL
Job No : 03959WM
Mode : 2422 Band edge
: 2.4G WIFI 11N40

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 2389.376 | 6.82 | 27.46 | 31.54 | 37.13 | 39.87 | 54.00 | -14.13 | Average |
| 2 | 2390.000 | 6.82 | 27.46 | 31.54 | 36.62 | 39.36 | 54.00 | -14.64 | Average |
| 3 pp | 2422.000 | 6.98 | 27.54 | 31.54 | 81.30 | 84.28 | 54.00 | 30.28 | Average |

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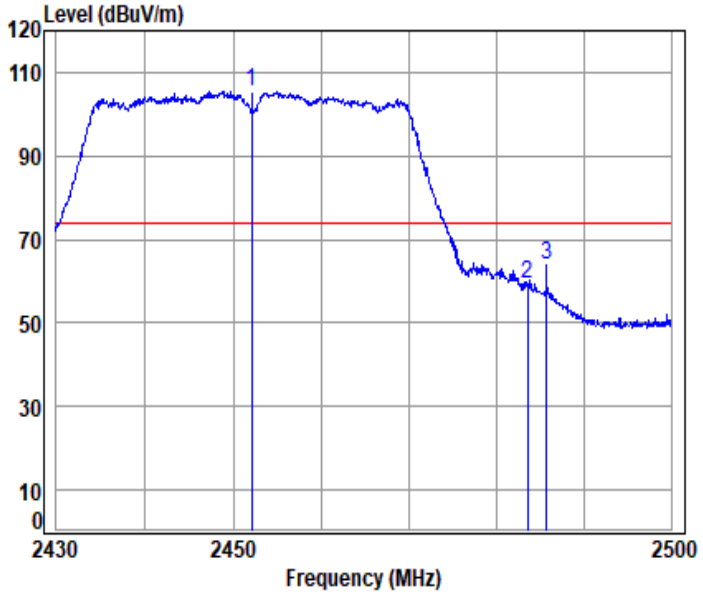
11n_HT(40M)_TX_CH_09_Horizontal-Peak




Condition: 3m HORIZONTAL
Job No : 03959WM
Mode : 2452 Band edge
: 2.4G WIFI 11N40

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 pp | 2452.000 | 7.18 | 27.61 | 31.55 | 102.21 | 105.45 | 74.00 | 31.45 | peak |
| 2 | 2483.500 | 7.40 | 27.80 | 31.55 | 55.77 | 59.42 | 74.00 | -14.58 | peak |
| 3 | 2485.629 | 7.41 | 27.81 | 31.55 | 60.28 | 63.95 | 74.00 | -10.05 | peak |

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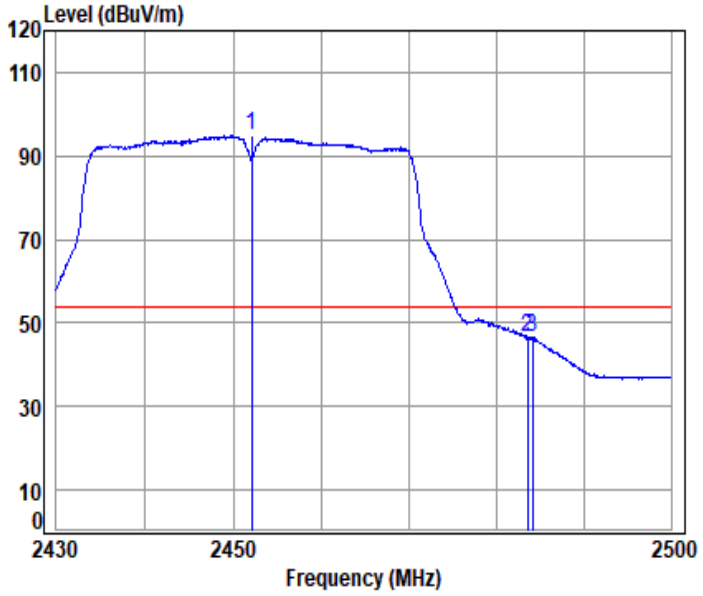
11n_HT(40M)_TX_CH_09_Horizontal-Avg




Condition: 3m HORIZONTAL
Job No : 03959WM
Mode : 2452 Band edge
: 2.4G WIFI 11N40

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 pp | 2452.000 | 7.18 | 27.61 | 31.55 | 91.53 | 94.77 | 54.00 | 40.77 | Average |
| 2 | 2483.500 | 7.40 | 27.80 | 31.55 | 42.87 | 46.52 | 54.00 | -7.48 | Average |
| 3 | 2484.076 | 7.40 | 27.80 | 31.55 | 42.88 | 46.53 | 54.00 | -7.47 | Average |

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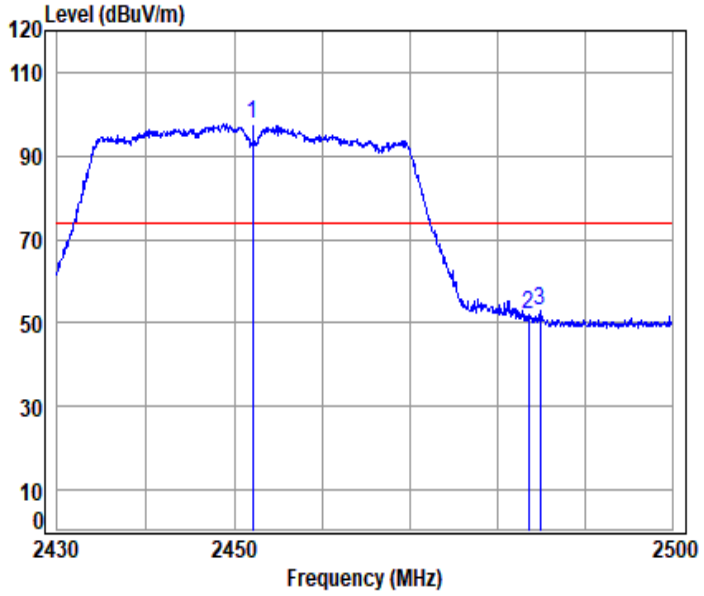
11n_HT(40M)_TX_CH_09_Vertical-Peak




Condition: 3m VERTICAL
Job No : 03959WM
Mode : 2452 Band edge
: 2.4G WIFI 11N40

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 pp | 2452.000 | 7.18 | 27.61 | 31.55 | 94.40 | 97.64 | 74.00 | 23.64 | Peak |
| 2 | 2483.500 | 7.40 | 27.80 | 31.55 | 48.19 | 51.84 | 74.00 | -22.16 | Peak |
| 3 | 2484.782 | 7.41 | 27.81 | 31.55 | 49.04 | 52.71 | 74.00 | -21.29 | Peak |

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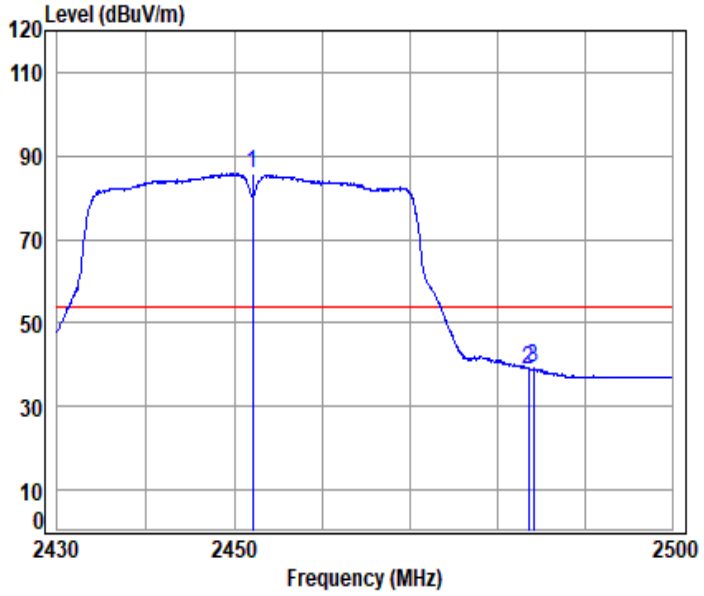
11n_HT(40M)_TX_CH_09_Vertical-Avg




Condition: 3m VERTICAL
Job No : 03959WM
Mode : 2452 Band edge
: 2.4G WIFI 11N40

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 pp | 2452.000 | 7.18 | 27.61 | 31.55 | 82.54 | 85.78 | 54.00 | 31.78 | Average |
| 2 | 2483.500 | 7.40 | 27.80 | 31.55 | 35.26 | 38.91 | 54.00 | -15.09 | Average |
| 3 | 2484.076 | 7.40 | 27.80 | 31.55 | 35.40 | 39.05 | 54.00 | -14.95 | Average |

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## 7.3 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2013) Section 6.4,6.5
Measurement Distance: 3m

Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|---|---|---|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30.0 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| 960-1000 | 500 | 3 |

### 7.3.1 E.U.T. Operation

Operating Environment:
Temperature: 20.2 °C Humidity: 45.2 % RH Atmospheric Pressure: 1020 mbar

### 7.3.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|---|---|---|
| Final test | 08 | Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested. Only the data of worst case is recorded in the report. |

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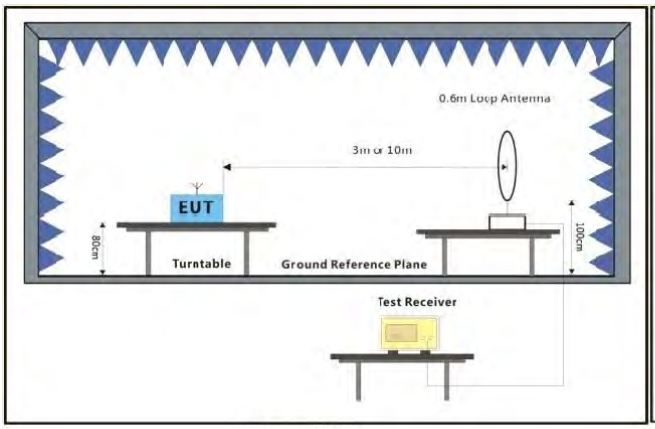
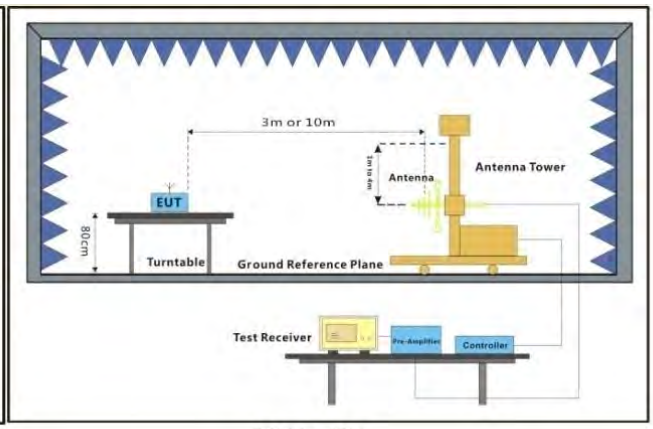
### 7.3.3 Test Setup Diagram




Below 30MHz




30MHz-1GHz

### 7.3.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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

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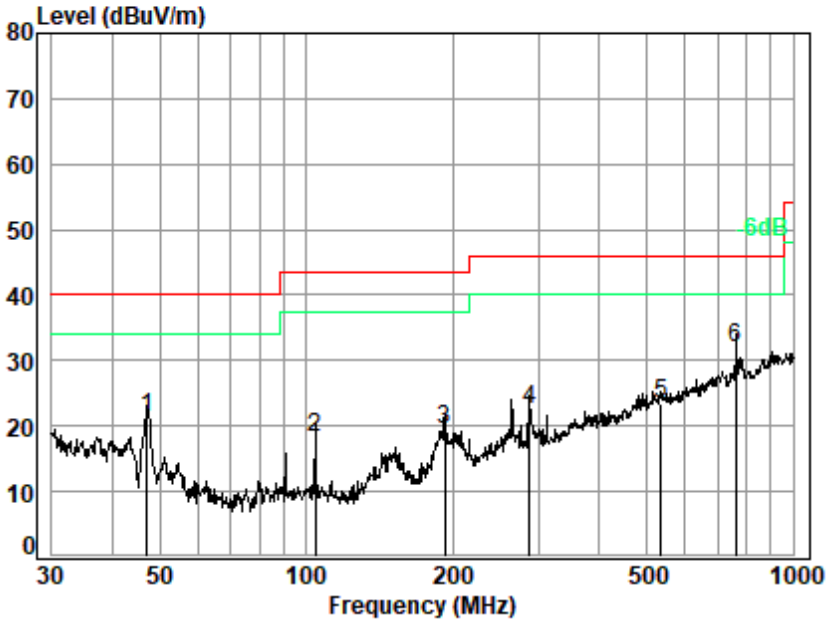
Test Mode: 08; Polarity: Horizontal




Site : chamber
Condition: 3m HORIZONTAL
Job No. : 03959WM
Test Mode: 08

| | Freq | Ant Factor | Cable Loss | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB/m | dB | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 47.160 | 13.59 | 0.84 | 27.74 | 34.51 | 21.20 | 40.00 | -18.80 | QP |
| 2 | 104.170 | 12.22 | 1.25 | 27.57 | 32.33 | 18.23 | 43.50 | -25.27 | QP |
| 3 | 192.419 | 14.23 | 1.73 | 27.20 | 30.69 | 19.45 | 43.50 | -24.05 | QP |
| 4 | 287.990 | 16.98 | 2.16 | 26.80 | 30.22 | 22.56 | 46.00 | -23.44 | QP |
| 5 | 535.707 | 23.46 | 3.04 | 27.71 | 24.56 | 23.35 | 46.00 | -22.65 | QP |
| 6 q | 763.376 | 26.52 | 3.75 | 27.57 | 29.25 | 31.95 | 46.00 | -14.05 | QP |

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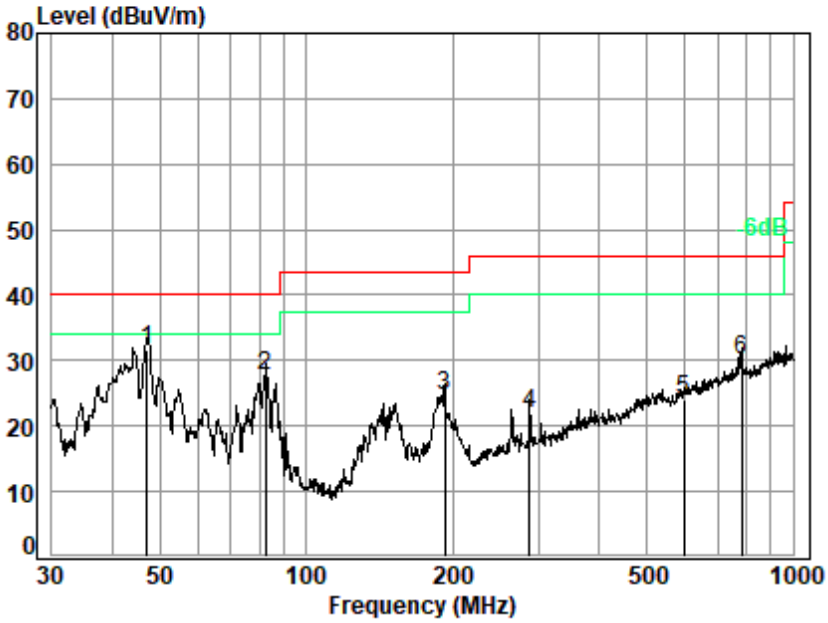
Test Mode: 08; Polarity: Vertical




Site : chamber
Condition: 3m VERTICAL
Job No. : 03959WM
Test Mode: 08

| | Freq | Ant Factor | Cable Loss | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB/m | dB | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 q | 47.160 | 13.59 | 0.84 | 27.74 | 44.82 | 31.51 | 40.00 | -8.49 | QP |
| 2 | 82.648 | 10.69 | 1.11 | 27.64 | 43.41 | 27.57 | 40.00 | -12.43 | QP |
| 3 | 192.419 | 14.23 | 1.73 | 27.20 | 35.75 | 24.51 | 43.50 | -18.99 | QP |
| 4 | 287.990 | 16.98 | 2.16 | 26.80 | 29.57 | 21.91 | 46.00 | -24.09 | QP |
| 5 | 597.223 | 24.44 | 3.23 | 27.96 | 24.20 | 23.91 | 46.00 | -22.09 | QP |
| 6 | 782.345 | 27.08 | 3.81 | 27.52 | 26.64 | 30.01 | 46.00 | -15.99 | QP |

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## 7.4 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2013) Section 6.6
Measurement Distance: 3m

Limit:

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

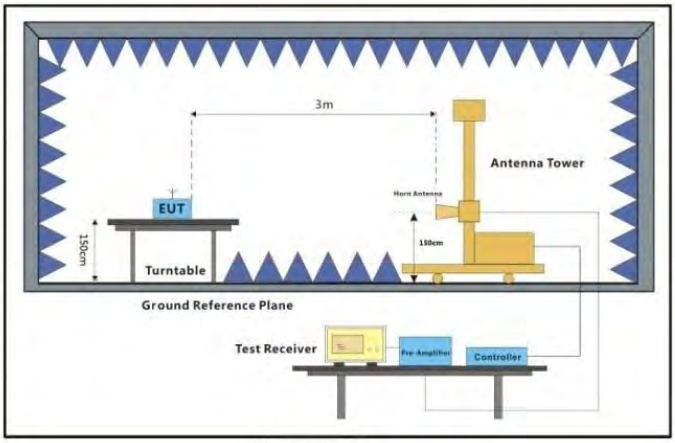
### 7.4.1 E.U.T. Operation

Operating Environment:
Temperature: 24.5 °C Humidity: 50.8 % RH Atmospheric Pressure: 1020 mbar

### 7.4.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|---|---|---|
| Final test | 08 | Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested. Only the data of worst case is recorded in the report. |

### 7.4.3 Test Setup Diagram




Above 1GHz

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### 7.4.4 Measurement Procedure and Data

a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

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

4: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

5:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥1/T (Duty cycle＜98%) or 10Hz (Duty cycle≥98%) for Average detection (AV) at frequency above 1GHz.

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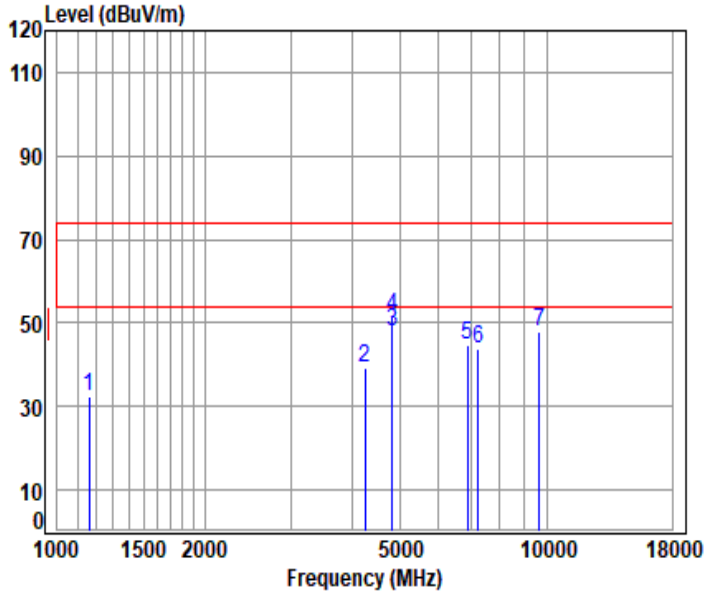
11b_TX_CH_01_Horizontal




Condition: 3m HORIZONTAL
Job No : 03959WM
Mode : 2412 TX RSE
: 2.4G WIFI 11B

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1162.182 | 7.16 | 25.38 | 54.70 | 54.57 | 32.41 | 74.00 | -41.59 | peak |
| 2 | 4254.921 | 8.48 | 31.12 | 55.78 | 55.62 | 39.44 | 74.00 | -34.56 | peak |
| 3 pp | 4824.000 | 8.92 | 32.00 | 56.18 | 63.05 | 47.79 | 54.00 | -6.21 | Average |
| 4 pk | 4824.000 | 8.92 | 32.00 | 56.18 | 66.88 | 51.62 | 74.00 | -22.38 | peak |
| 5 | 6874.906 | 10.95 | 36.10 | 56.73 | 54.40 | 44.72 | 74.00 | -29.28 | peak |
| 6 | 7236.000 | 11.10 | 36.60 | 56.51 | 52.69 | 43.88 | 74.00 | -30.12 | peak |
| 7 | 9648.000 | 12.49 | 38.70 | 54.42 | 50.99 | 47.76 | 74.00 | -26.24 | peak |

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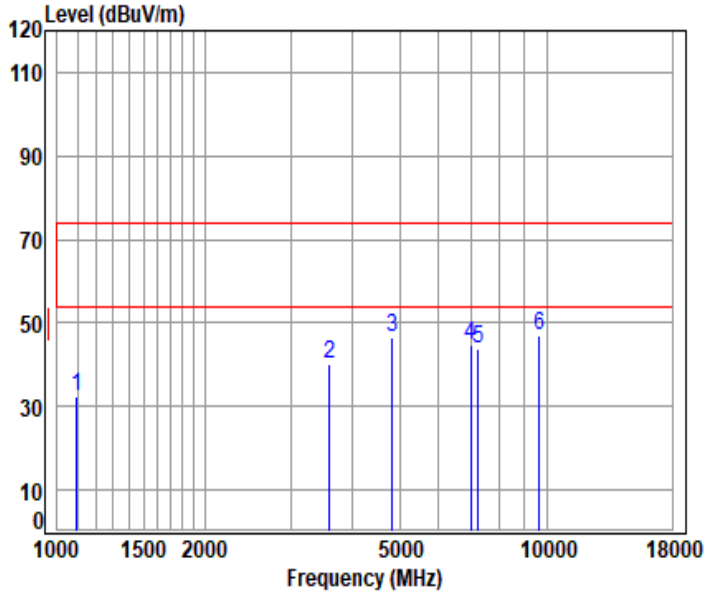
11b_TX_CH_01_Vertical




Condition: 3m VERTICAL
Job No : 03959WM
Mode : 2412 TX RSE
: 2.4G WIFI 11B

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1096.904 | 7.10 | 25.59 | 54.70 | 54.49 | 32.48 | 74.00 | -41.52 | peak |
| 2 | 3598.203 | 7.76 | 29.90 | 55.36 | 57.71 | 40.01 | 74.00 | -33.99 | peak |
| 3 | 4824.000 | 8.92 | 32.00 | 56.18 | 61.59 | 46.33 | 74.00 | -27.67 | peak |
| 4 | 6974.982 | 10.95 | 36.15 | 56.71 | 54.26 | 44.65 | 74.00 | -29.35 | peak |
| 5 | 7236.000 | 11.10 | 36.60 | 56.51 | 52.68 | 43.87 | 74.00 | -30.13 | peak |
| 6 pp | 9648.000 | 12.49 | 38.70 | 54.42 | 50.32 | 47.09 | 74.00 | -26.91 | peak |

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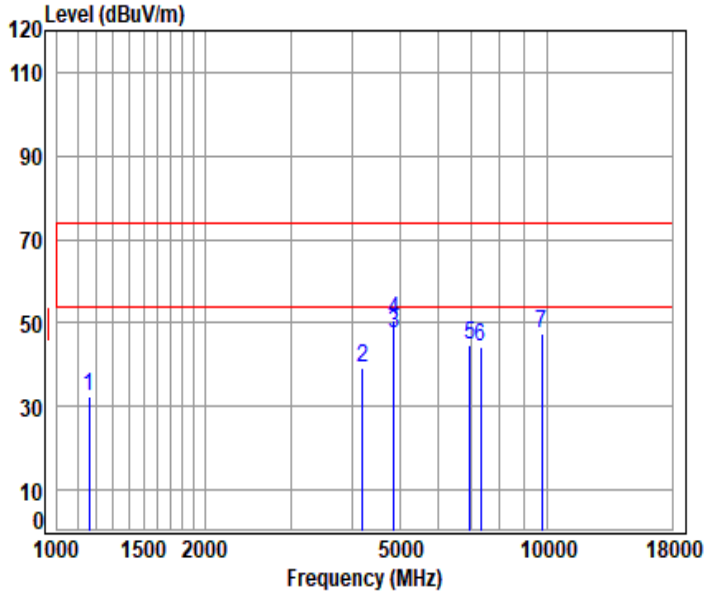
11b_TX_CH_06_Horizontal




Condition: 3m HORIZONTAL
Job No : 03959WM
Mode : 2437 TX RSE
: 2.4G WIFI 11B

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1162.182 | 7.16 | 25.38 | 54.70 | 54.61 | 32.45 | 74.00 | -41.55 | peak |
| 2 | 4193.872 | 8.50 | 30.76 | 55.74 | 55.49 | 39.01 | 74.00 | -34.99 | peak |
| 3 pp | 4874.000 | 8.97 | 32.15 | 56.21 | 62.73 | 47.64 | 54.00 | -6.36 | Average |
| 4 pk | 4874.000 | 8.97 | 32.15 | 56.21 | 65.82 | 50.73 | 74.00 | -23.27 | peak |
| 5 | 6954.852 | 10.95 | 36.11 | 56.71 | 54.38 | 44.73 | 74.00 | -29.27 | peak |
| 6 | 7311.000 | 11.11 | 36.72 | 56.45 | 52.88 | 44.26 | 74.00 | -29.74 | peak |
| 7 | 9748.000 | 12.80 | 38.60 | 54.33 | 50.58 | 47.65 | 74.00 | -26.35 | peak |

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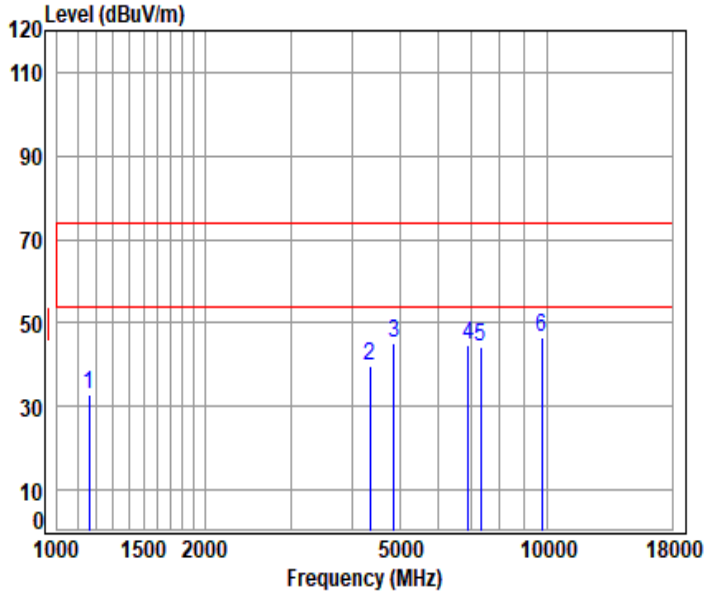
11b_TX_CH_06_Vertical




Condition: 3m VERTICAL
Job No : 03959WM
Mode : 2437 TX RSE
: 2.4G WIFI 11B

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1162.182 | 7.16 | 25.38 | 54.70 | 55.20 | 33.04 | 74.00 | -40.96 | peak |
| 2 | 4354.454 | 8.50 | 31.29 | 55.85 | 55.86 | 39.80 | 74.00 | -34.20 | peak |
| 3 | 4874.000 | 8.97 | 32.15 | 56.21 | 60.40 | 45.31 | 74.00 | -28.69 | peak |
| 4 | 6914.763 | 10.94 | 36.17 | 56.72 | 54.17 | 44.56 | 74.00 | -29.44 | peak |
| 5 | 7311.000 | 11.11 | 36.72 | 56.45 | 52.88 | 44.26 | 74.00 | -29.74 | peak |
| 6 pp | 9748.000 | 12.80 | 38.60 | 54.33 | 49.53 | 46.60 | 74.00 | -27.40 | peak |

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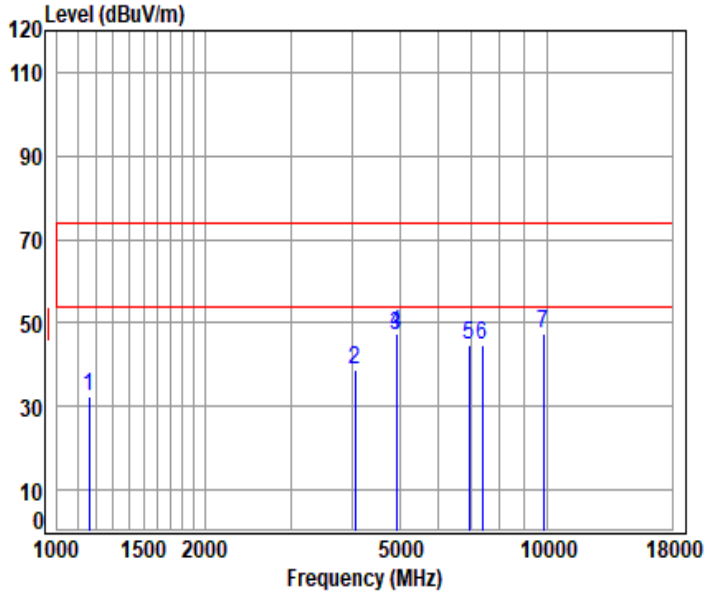
11b_TX_CH_11_Horizontal




Condition: 3m HORIZONTAL
Job No : 03959WM
Mode : 2462 TX RSE
: 2.4G WIFI 11B

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1162.182 | 7.16 | 25.38 | 54.70 | 54.48 | 32.32 | 74.00 | -41.68 | peak |
| 2 | 4062.629 | 8.27 | 30.33 | 55.64 | 55.87 | 38.83 | 74.00 | -35.17 | peak |
| 3 pp | 4924.000 | 9.03 | 32.20 | 56.25 | 62.20 | 47.18 | 54.00 | -6.82 | Average |
| 4 pk | 4924.000 | 9.03 | 32.20 | 56.25 | 62.68 | 47.66 | 74.00 | -26.34 | peak |
| 5 | 6934.778 | 10.95 | 36.13 | 56.71 | 54.41 | 44.78 | 74.00 | -29.22 | peak |
| 6 | 7386.000 | 11.19 | 36.73 | 56.39 | 52.98 | 44.51 | 74.00 | -29.49 | peak |
| 7 | 9848.000 | 12.84 | 37.83 | 54.24 | 50.97 | 47.40 | 74.00 | -26.60 | peak |

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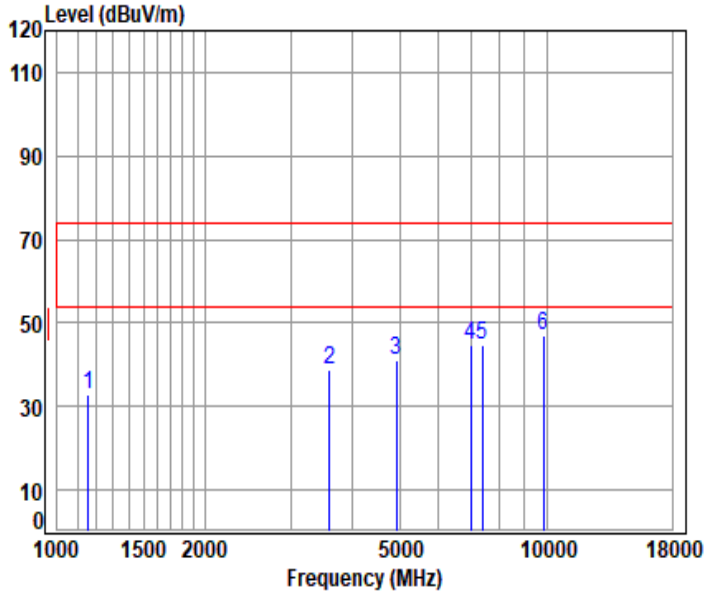
11b_TX_CH_11_Vertical




Condition: 3m VERTICAL
Job No : 03959WM
Mode : 2462 TX RSE
: 2.4G WIFI 11B

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1158.828 | 7.15 | 25.38 | 54.70 | 55.22 | 33.05 | 74.00 | -40.95 | peak |
| 2 | 3598.203 | 7.76 | 29.90 | 55.36 | 56.69 | 38.99 | 74.00 | -35.01 | peak |
| 3 | 4924.000 | 9.03 | 32.20 | 56.25 | 55.88 | 40.86 | 74.00 | -33.14 | peak |
| 4 | 6974.982 | 10.95 | 36.15 | 56.71 | 54.10 | 44.49 | 74.00 | -29.51 | peak |
| 5 | 7386.000 | 11.19 | 36.73 | 56.39 | 53.02 | 44.55 | 74.00 | -29.45 | peak |
| 6 pp | 9848.000 | 12.84 | 37.83 | 54.24 | 50.71 | 47.14 | 74.00 | -26.86 | peak |

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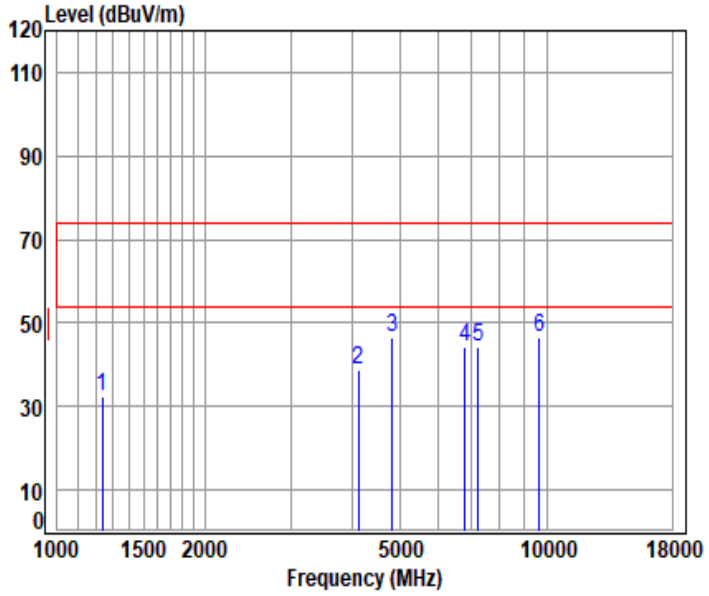
11n_20M_TX_CH_01_Horizontal




Condition: 3m HORIZONTAL
Job No : 03959WM
Mode : 2412 TX RSE
: 2.4G WIFI 11N20

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1238.483 | 7.17 | 25.30 | 54.70 | 54.57 | 32.34 | 74.00 | -41.66 | peak |
| 2 | 4121.768 | 8.39 | 30.44 | 55.69 | 55.55 | 38.69 | 74.00 | -35.31 | peak |
| 3 pp | 4824.000 | 8.92 | 32.00 | 56.18 | 61.62 | 46.36 | 74.00 | -27.64 | peak |
| 4 | 6795.879 | 10.97 | 35.88 | 56.74 | 54.27 | 44.38 | 74.00 | -29.62 | peak |
| 5 | 7236.000 | 11.10 | 36.60 | 56.51 | 53.23 | 44.42 | 74.00 | -29.58 | peak |
| 6 | 9648.000 | 12.49 | 38.70 | 54.42 | 49.55 | 46.32 | 74.00 | -27.68 | peak |

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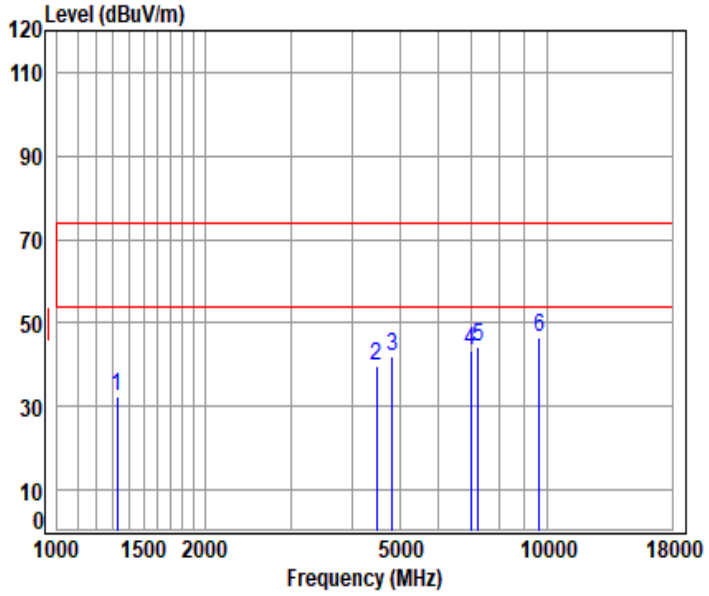
11n_20M_TX_CH_01_Vertical




Condition: 3m VERTICAL
Job No : 03959WM
Mode : 2412 TX RSE
: 2.4G WIFI 11N20

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1323.614 | 7.16 | 25.15 | 54.70 | 54.73 | 32.34 | 74.00 | -41.66 | peak |
| 2 | 4495.125 | 8.56 | 31.58 | 55.95 | 55.36 | 39.55 | 74.00 | -34.45 | peak |
| 3 | 4824.000 | 8.92 | 32.00 | 56.18 | 57.21 | 41.95 | 74.00 | -32.05 | peak |
| 4 | 6995.172 | 10.96 | 36.19 | 56.70 | 53.07 | 43.52 | 74.00 | -30.48 | peak |
| 5 | 7236.000 | 11.10 | 36.60 | 56.51 | 52.95 | 44.14 | 74.00 | -29.86 | peak |
| 6 pp | 9648.000 | 12.49 | 38.70 | 54.42 | 49.54 | 46.31 | 74.00 | -27.69 | peak |

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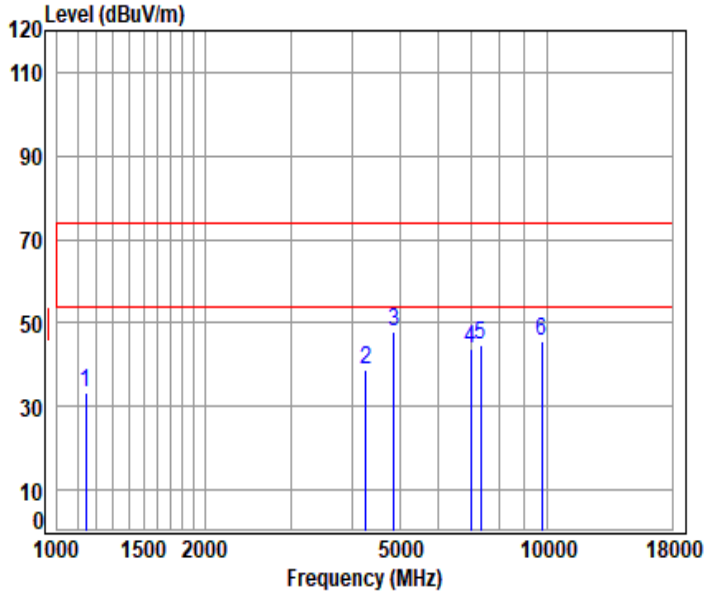
11n_20M_TX_CH_06_Horizontal




Condition: 3m HORIZONTAL
Job No : 03959WM
Mode : 2437 TX RSE
: 2.4G WIFI 11N20

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1145.507 | 7.14 | 25.42 | 54.70 | 55.32 | 33.18 | 74.00 | -40.82 | peak |
| 2 | 4267.237 | 8.47 | 31.17 | 55.79 | 54.95 | 38.80 | 74.00 | -35.20 | peak |
| 3 pp | 4874.000 | 8.97 | 32.15 | 56.21 | 63.08 | 47.99 | 74.00 | -26.01 | peak |
| 4 | 6995.172 | 10.96 | 36.19 | 56.70 | 53.49 | 43.94 | 74.00 | -30.06 | peak |
| 5 | 7311.000 | 11.11 | 36.72 | 56.45 | 53.49 | 44.87 | 74.00 | -29.13 | peak |
| 6 | 9748.000 | 12.80 | 38.60 | 54.33 | 48.54 | 45.61 | 74.00 | -28.39 | peak |

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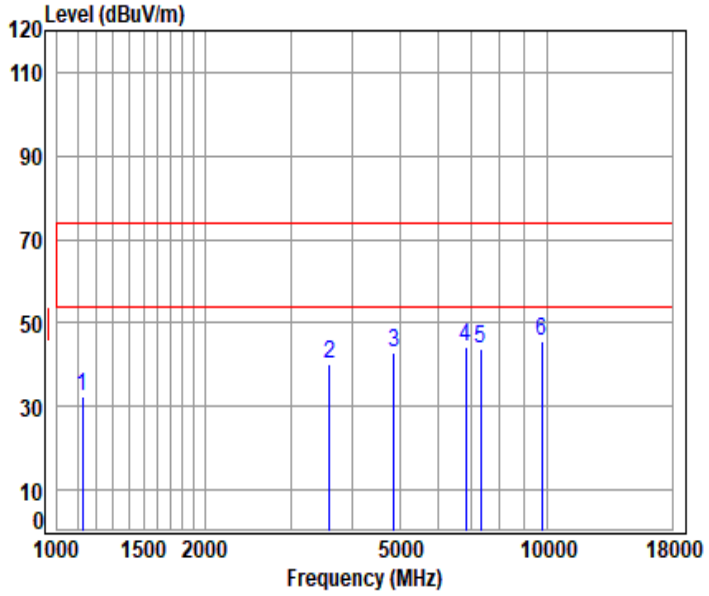
11n_20M_TX_CH_06_Vertical




Condition: 3m VERTICAL
Job No : 03959WM
Mode : 2437 TX RSE
: 2.4G WIFI 11N20

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1125.813 | 7.12 | 25.50 | 54.70 | 54.44 | 32.36 | 74.00 | -41.64 | peak |
| 2 | 3598.203 | 7.76 | 29.90 | 55.36 | 57.64 | 39.94 | 74.00 | -34.06 | peak |
| 3 | 4874.000 | 8.97 | 32.15 | 56.21 | 58.15 | 43.06 | 74.00 | -30.94 | peak |
| 4 | 6815.551 | 10.97 | 35.93 | 56.74 | 53.92 | 44.08 | 74.00 | -29.92 | peak |
| 5 | 7311.000 | 11.11 | 36.72 | 56.45 | 52.40 | 43.78 | 74.00 | -30.22 | peak |
| 6 pp | 9748.000 | 12.80 | 38.60 | 54.33 | 48.71 | 45.78 | 74.00 | -28.22 | peak |

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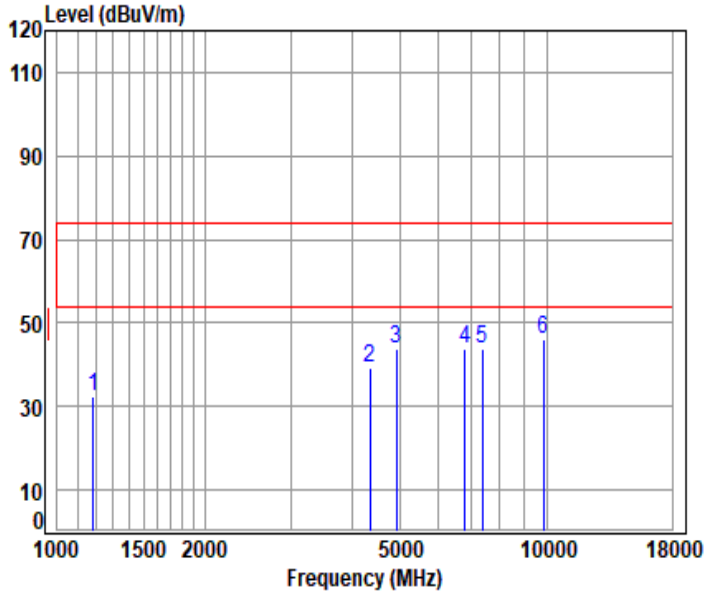
11n_20M_TX_CH_11_Horizontal




Condition: 3m HORIZONTAL
Job No : 03959WM
Mode : 2462 TX RSE
: 2.4G WIFI 11N20

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1182.513 | 7.17 | 25.33 | 54.70 | 54.48 | 32.28 | 74.00 | -41.72 | peak |
| 2 | 4354.454 | 8.50 | 31.29 | 55.85 | 55.13 | 39.07 | 74.00 | -34.93 | peak |
| 3 | 4924.000 | 9.03 | 32.20 | 56.25 | 58.84 | 43.82 | 74.00 | -30.18 | peak |
| 4 | 6795.879 | 10.97 | 35.88 | 56.74 | 53.58 | 43.69 | 74.00 | -30.31 | peak |
| 5 | 7386.000 | 11.19 | 36.73 | 56.39 | 52.25 | 43.78 | 74.00 | -30.22 | peak |
| 6 pp | 9848.000 | 12.84 | 37.83 | 54.24 | 49.58 | 46.01 | 74.00 | -27.99 | peak |

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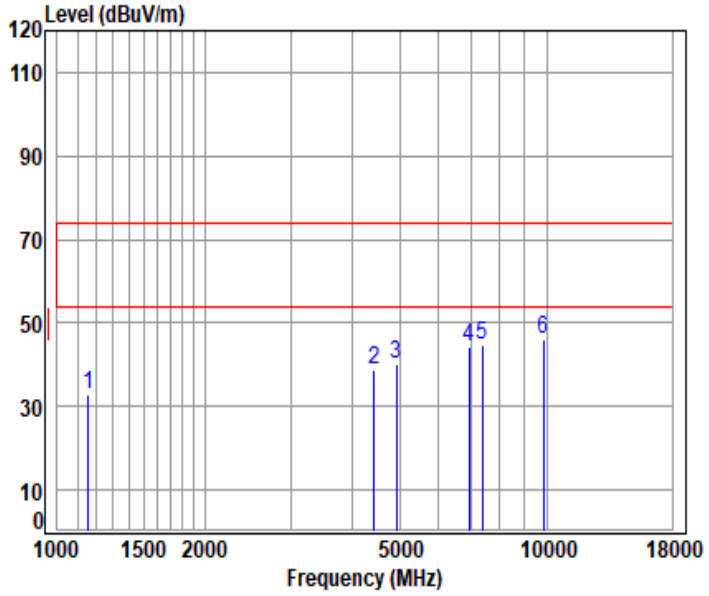
11n_20M_TX_CH_11_Vertical




Condition: 3m VERTICAL
Job No : 03959WM
Mode : 2462 TX RSE
: 2.4G WIFI 11N20

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1158.828 | 7.15 | 25.38 | 54.70 | 54.83 | 32.66 | 74.00 | -41.34 | peak |
| 2 | 4443.453 | 8.55 | 31.37 | 55.91 | 54.80 | 38.81 | 74.00 | -35.19 | peak |
| 3 | 4924.000 | 9.03 | 32.20 | 56.25 | 55.01 | 39.99 | 74.00 | -34.01 | peak |
| 4 | 6934.778 | 10.95 | 36.13 | 56.71 | 53.95 | 44.32 | 74.00 | -29.68 | peak |
| 5 | 7386.000 | 11.19 | 36.73 | 56.39 | 53.16 | 44.69 | 74.00 | -29.31 | peak |
| 6 pp | 9848.000 | 12.84 | 37.83 | 54.24 | 49.53 | 45.96 | 74.00 | -28.04 | peak |

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## 7.5 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)
Test Method: ANSI C63.10 (2013) Section 11.9.2

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 |

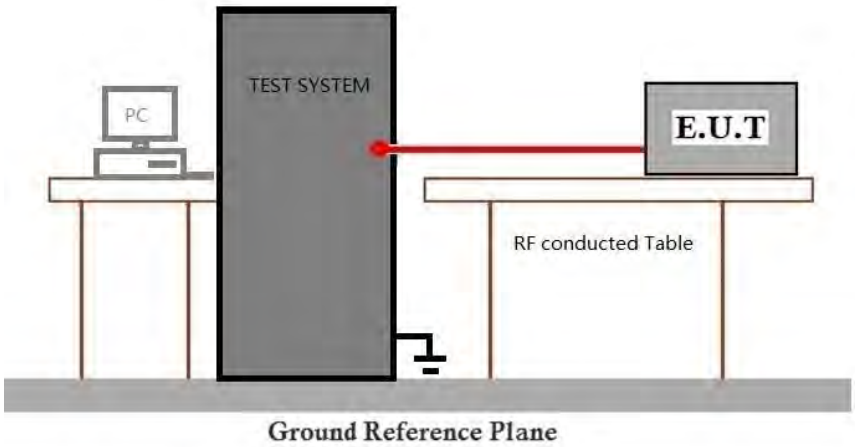
### 7.5.1 E.U.T. Operation

Operating Environment:
Temperature: 24.6 °C Humidity: 36.0 % RH Atmospheric Pressure: 1020 mbar

### 7.5.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|---|---|---|
| Final test | 07 | TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested. Only the data of worst case is recorded in the report. |

### 7.5.3 Test Setup Diagram

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### 7.5.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details

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## 7.6 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)
Test Method: ANSI C63.10 (2013) Section 11.8.1

Limit:
≥500 kHz

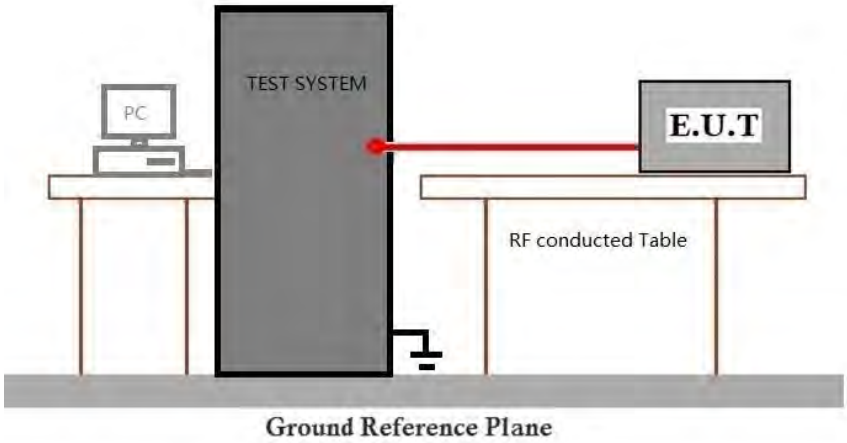
### 7.6.1 E.U.T. Operation

Operating Environment:
Temperature: 24.6 °C Humidity: 35.9 % RH Atmospheric Pressure: 1020 mbar

### 7.6.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|---|---|---|
| Final test | 07 | TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested. Only the data of worst case is recorded in the report. |

### 7.6.3 Test Setup Diagram




### 7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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## 7.7 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)
Test Method: ANSI C63.10 (2013) Section 11.10.2

Limit:
≤8dBm in any 3 kHz band during any time interval of continuous transmission

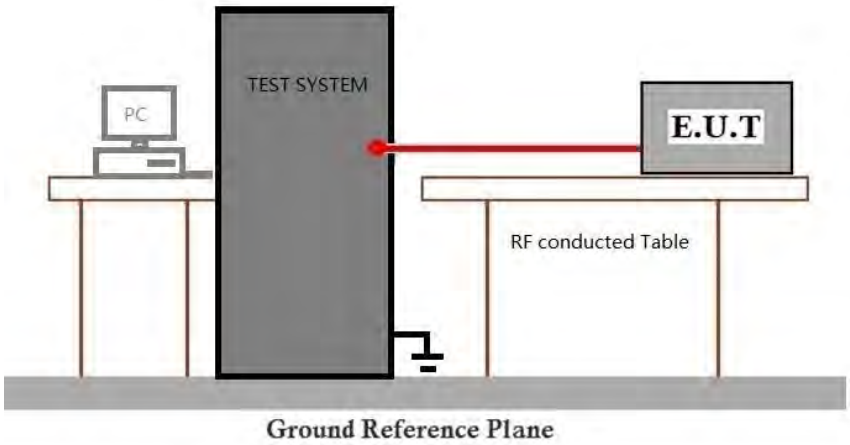
### 7.7.1 E.U.T. Operation

Operating Environment:
Temperature: 24.6 °C Humidity: 35.5 % RH Atmospheric Pressure: 1020 mbar

### 7.7.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|---|---|---|
| Final test | 07 | TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested. Only the data of worst case is recorded in the report. |

### 7.7.3 Test Setup Diagram




### 7.7.4 Measurement Procedure and Data

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## 7.8 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2013) Section 11.13.3.2

Limit:

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

### 7.8.1 E.U.T. Operation

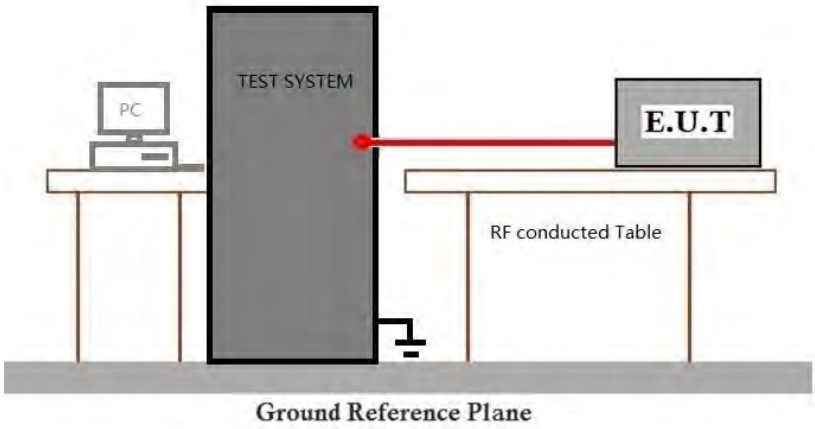
Operating Environment:

Temperature: 24.4 °C Humidity: 34.0 % RH Atmospheric Pressure: 1020 mbar

### 7.8.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|---|---|---|
| Final test | 07 | TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested. Only the data of worst case is recorded in the report. |

### 7.8.3 Test Setup Diagram




### 7.8.4 Measurement Procedure and Data

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## 7.9 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2013) Section 11.11

Limit:

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

### 7.9.1 E.U.T. Operation

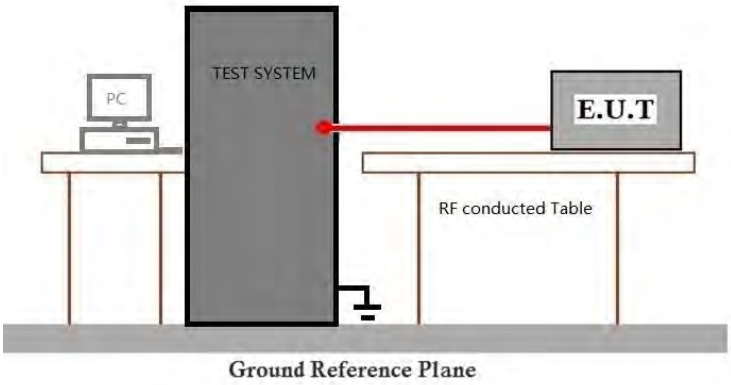
Operating Environment:

Temperature: 24.4 °C Humidity: 34.4 % RH Atmospheric Pressure: 1020 mbar

### 7.9.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|---|---|---|
| Final test | 07 | TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested. Only the data of worst case is recorded in the report. |

### 7.9.3 Test Setup Diagram




### 7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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# 8 Test Setup Photo

Please refer to SZCR2410003959 Appendix_Setup Photo

# 9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2410003959WM

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# 10 Appendix

## 1. Duty Cycle

### 1.1 Test Result

#### 1.1.1 Ant8

| Ant8 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Mode | TX Type | Frequency (MHz) | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 802.11b | SISO | 2412 | 12.433 | 12.603 | 98.65 | 0.06 | 0.18 |
| | | 2437 | 12.433 | 12.617 | 98.54 | 0.06 | 0.16 |
| | | 2462 | 12.433 | 12.603 | 98.65 | 0.06 | 0.10 |
| 802.11g | SISO | 2412 | 2.066 | 2.101 | 98.33 | 0.07 | 0.00 |
| | | 2437 | 2.066 | 2.101 | 98.33 | 0.07 | 0.03 |
| | | 2462 | 2.066 | 2.101 | 98.33 | 0.07 | 0.00 |
| 802.11n (HT20) | SISO | 2412 | 1.926 | 1.962 | 98.17 | 0.08 | 0.03 |
| | | 2437 | 1.925 | 1.961 | 98.16 | 0.08 | 0.00 |
| | | 2462 | 1.926 | 1.962 | 98.17 | 0.08 | 0.03 |
| 802.11n (HT40) | SISO | 2422 | 0.950 | 0.999 | 95.10 | 0.22 | 0.00 |
| | | 2437 | 0.949 | 0.999 | 94.99 | 0.22 | 0.03 |
| | | 2452 | 0.949 | 0.999 | 94.99 | 0.22 | 0.03 |
| 802.11ac (VHT20) | SISO | 2412 | 1.934 | 1.970 | 98.17 | 0.08 | 0.03 |
| | | 2437 | 1.934 | 1.969 | 98.22 | 0.08 | 0.03 |
| | | 2462 | 1.934 | 1.969 | 98.22 | 0.08 | 0.03 |
| 802.11ac (VHT40) | SISO | 2422 | 0.954 | 1.003 | 95.11 | 0.22 | 0.00 |
| | | 2437 | 0.953 | 1.003 | 95.01 | 0.22 | 0.00 |
| | | 2452 | 0.954 | 1.003 | 95.11 | 0.22 | 0.00 |

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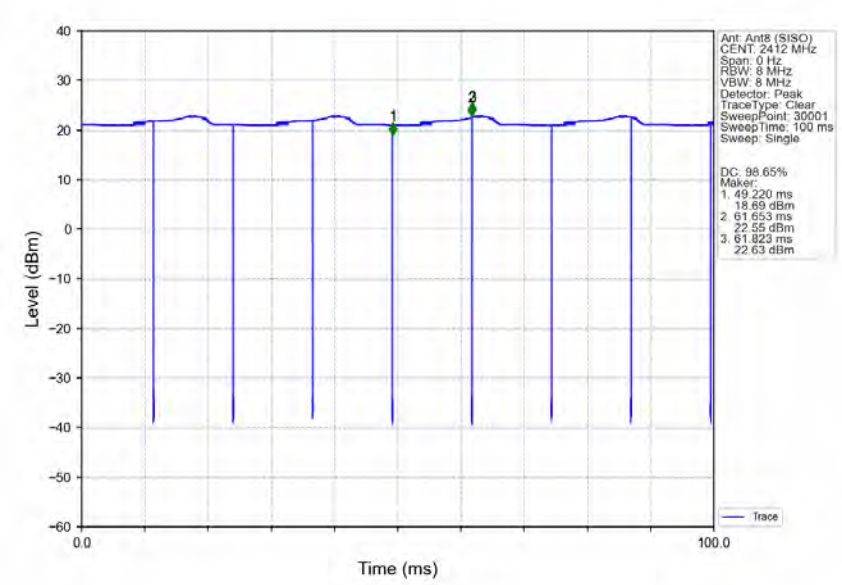
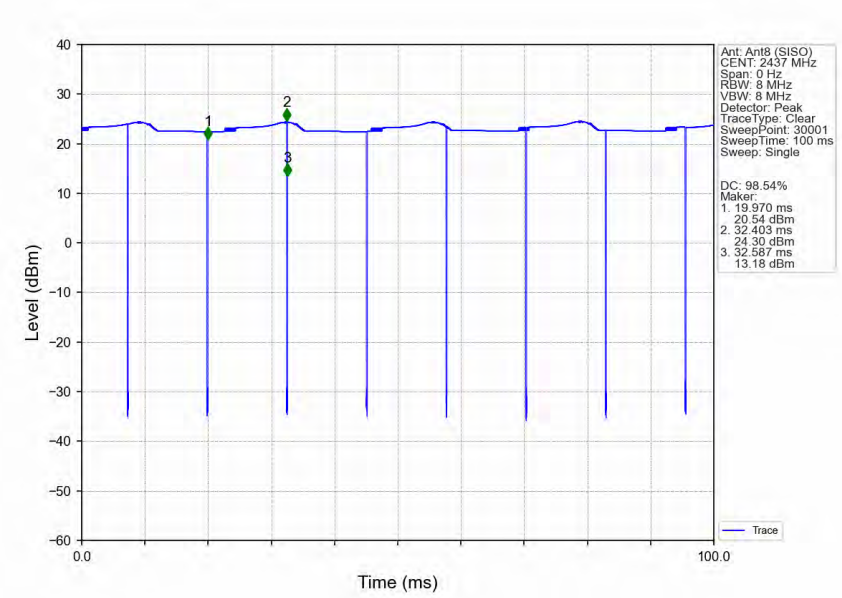
## 1.2 Test Graph

### 1.2.1 Ant8

802.11b_LCH_2412MHz_Ant8 (SISO)_NTNV




802.11b_MCH_2437MHz_Ant8 (SISO)_NTNV

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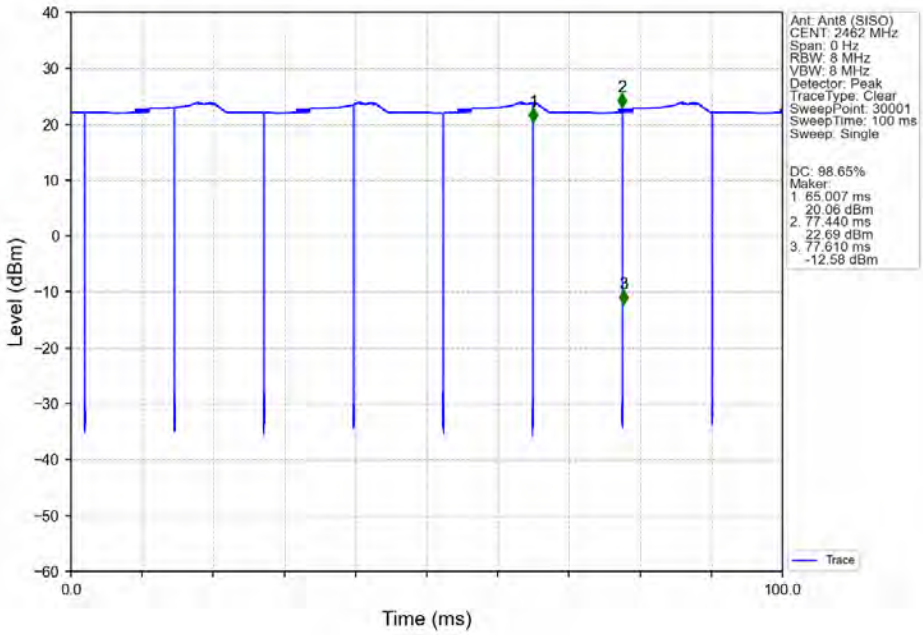
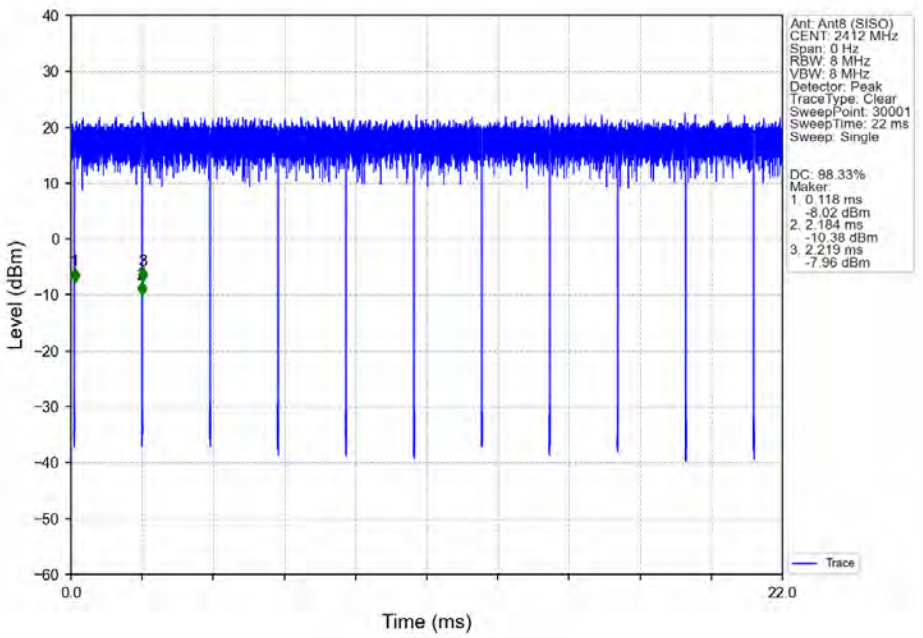
802.11b_HCH_2462MHz_Ant8 (SISO)_NTNV




802.11g_LCH_2412MHz_Ant8 (SISO)_NTNV

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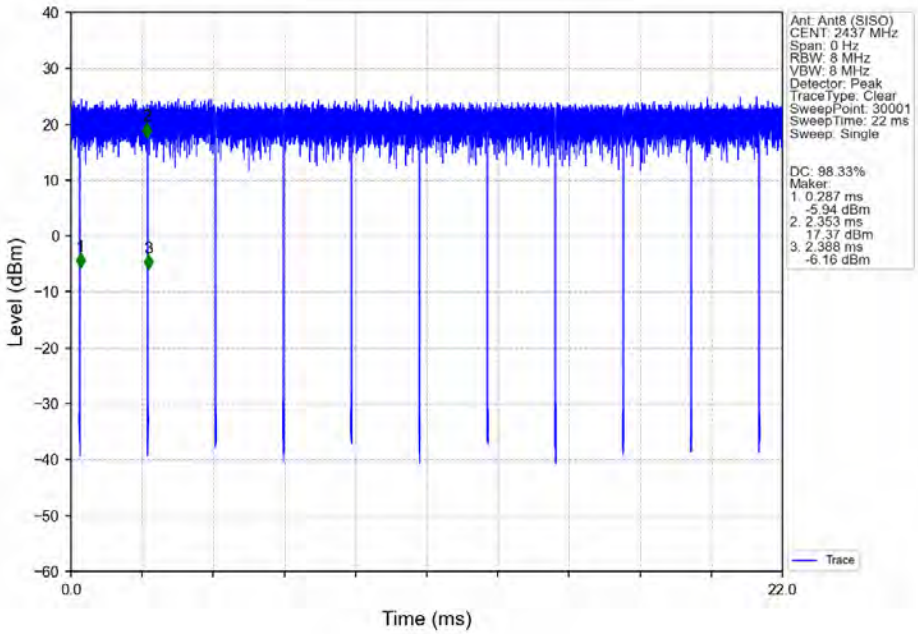
802.11g_MCH_2437MHz_Ant8 (SISO)_NTNV

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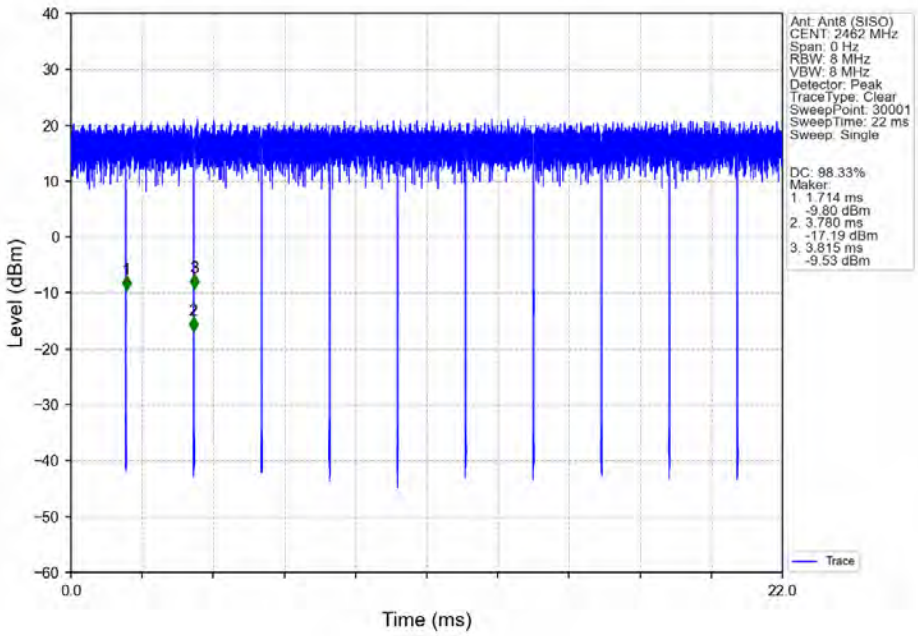


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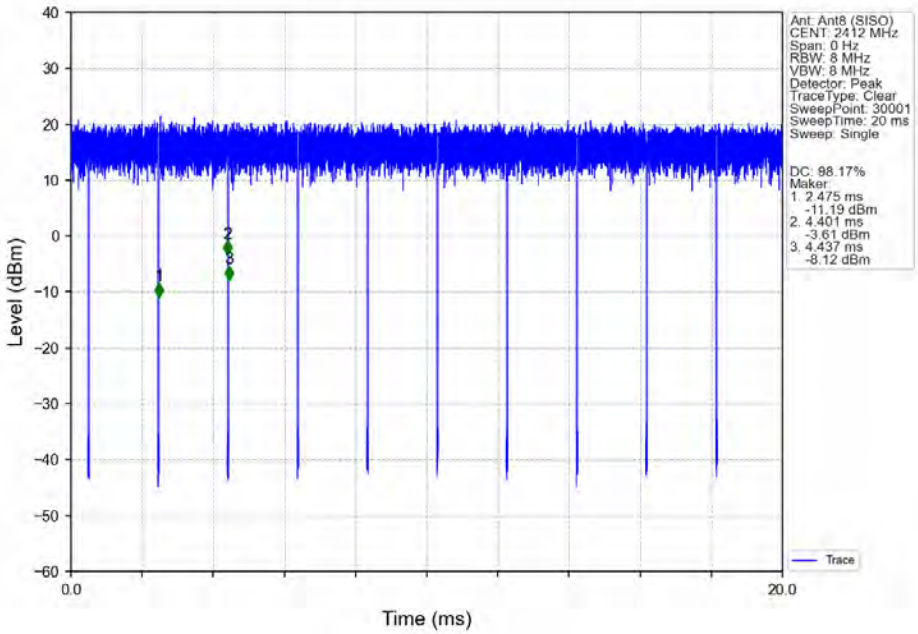
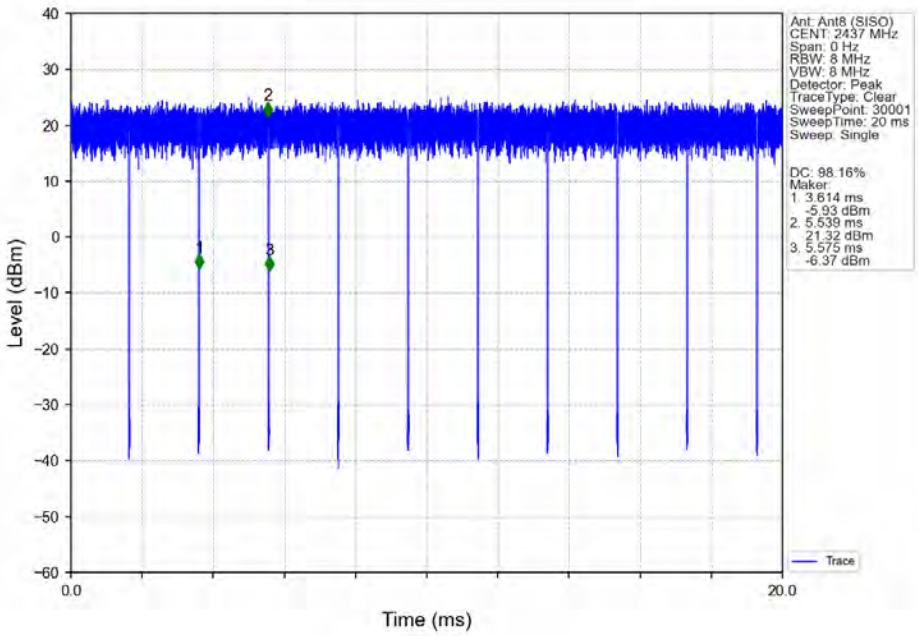
802.11n(HT20)_LCH_2412MHz_Ant8 (SISO)_NTNV




802.11n(HT20)_MCH_2437MHz_Ant8 (SISO)_NTNV

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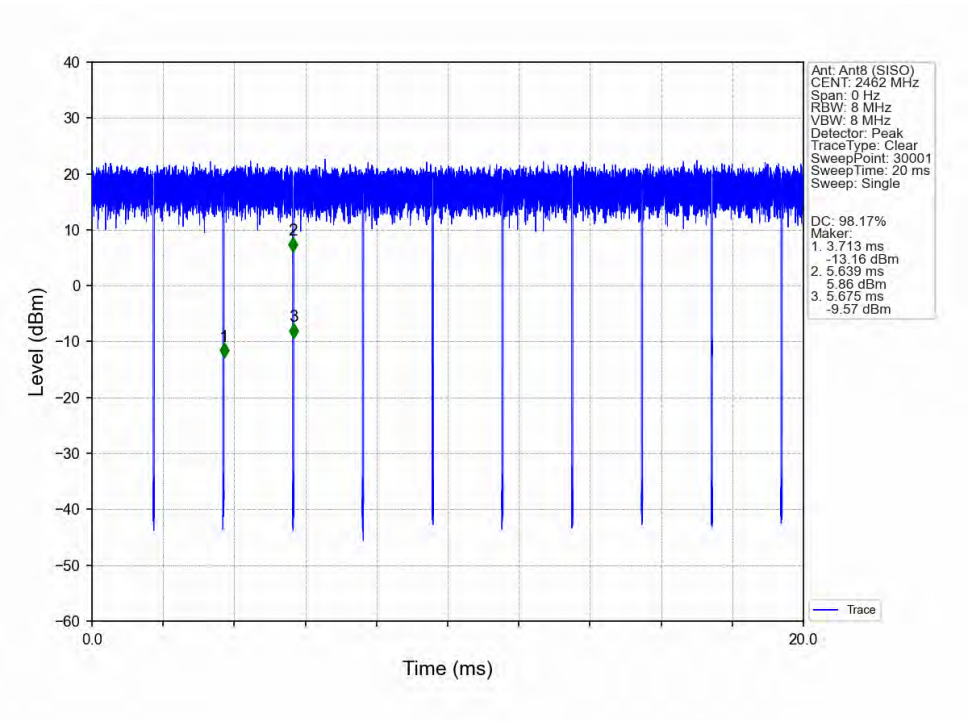
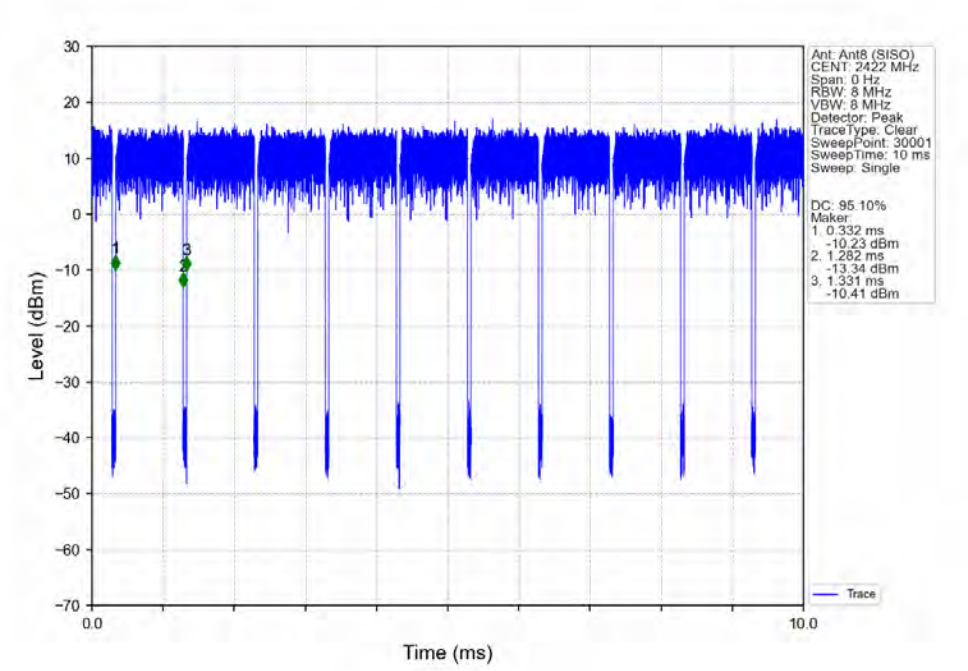
802.11n(HT20)_HCH_2462MHz_Ant8 (SISO)_NTNV




802.11n(HT40)_LCH_2422MHz_Ant8 (SISO)_NTNV

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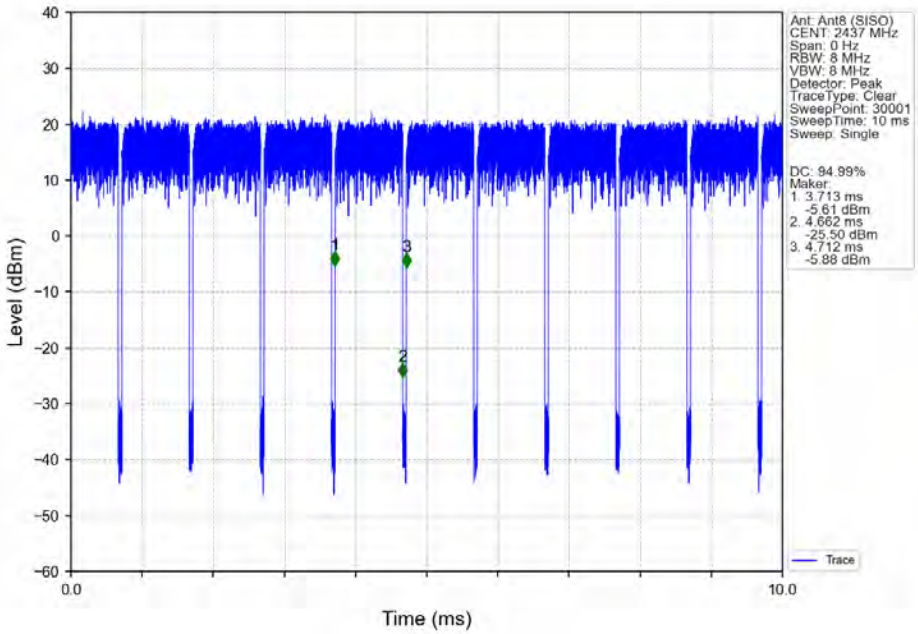


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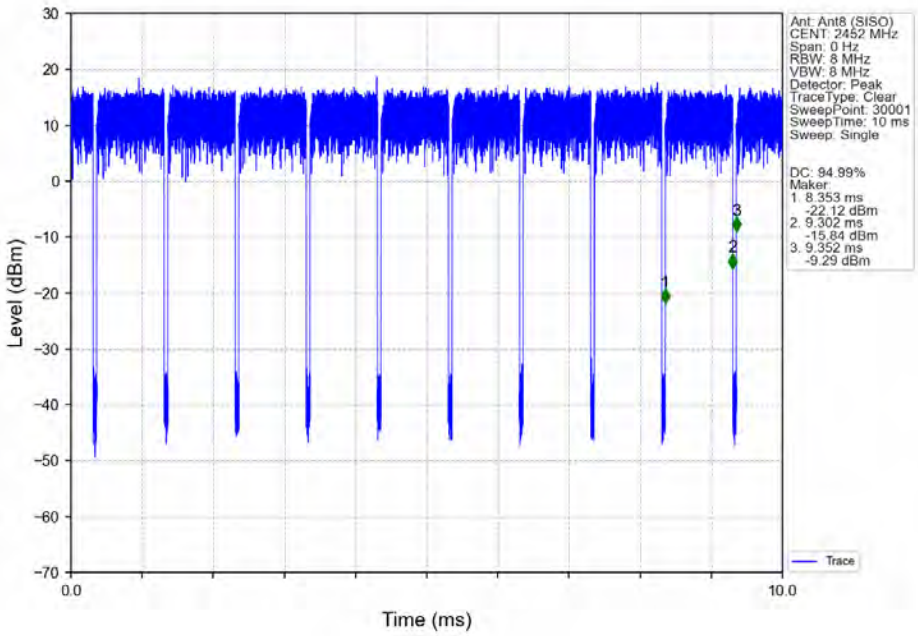


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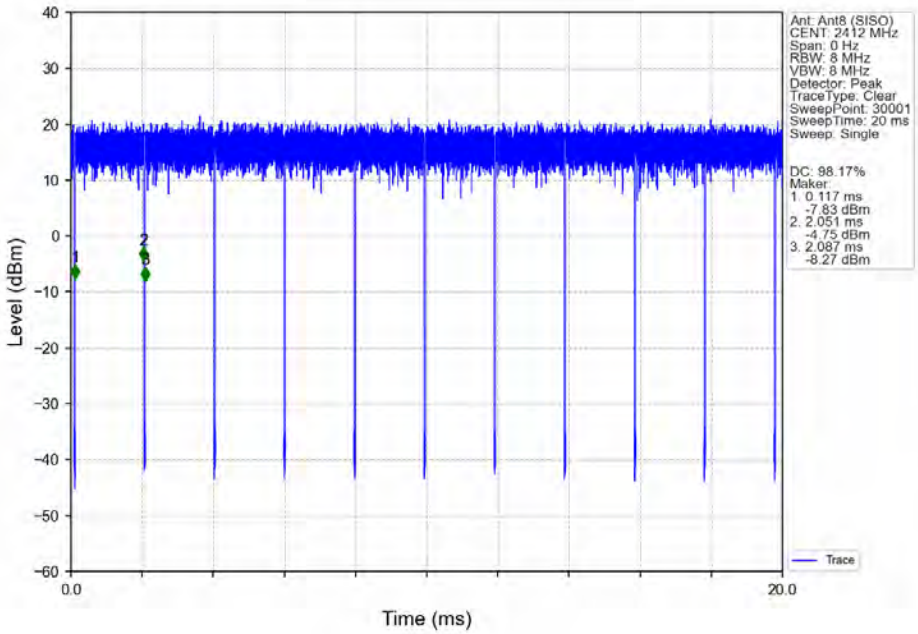


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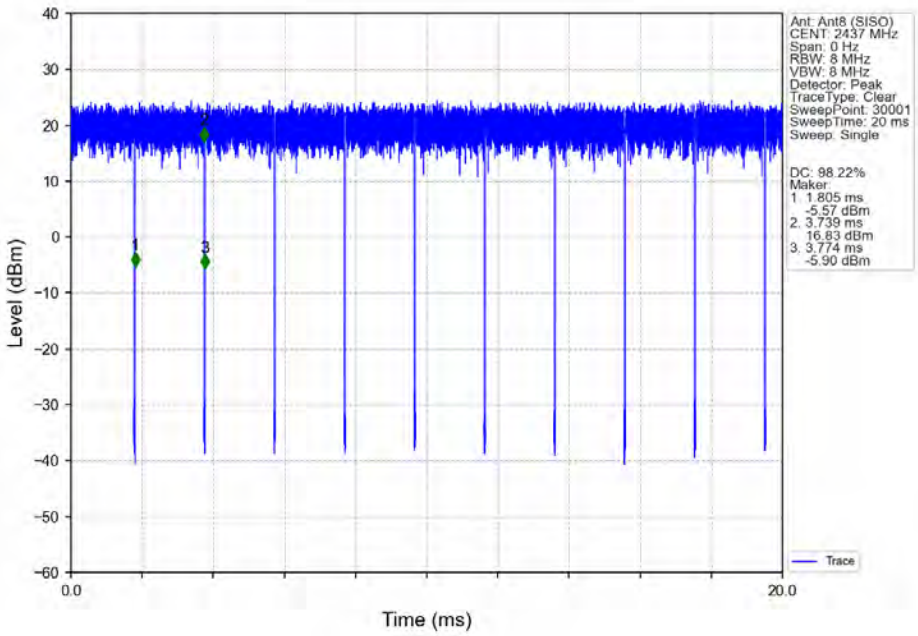


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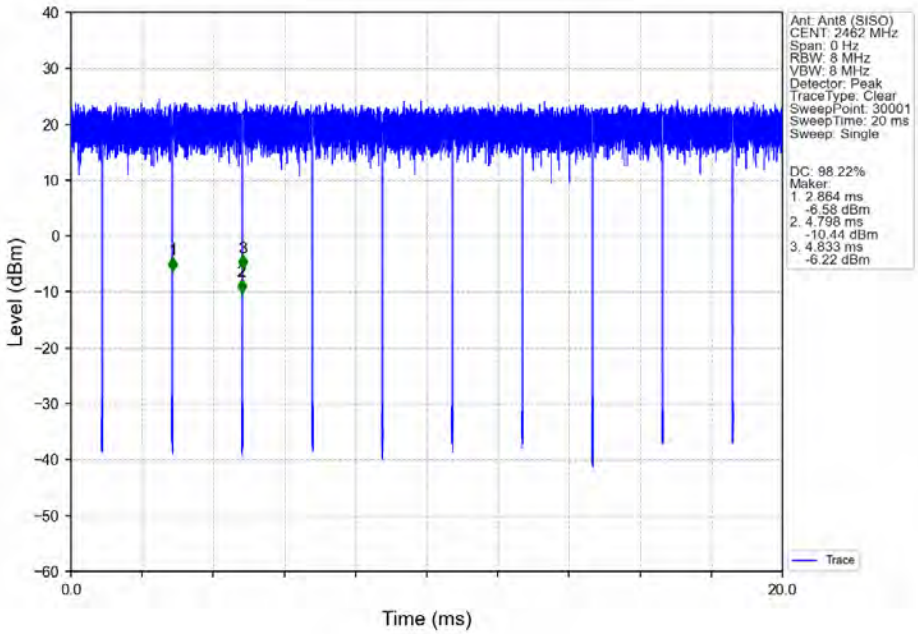
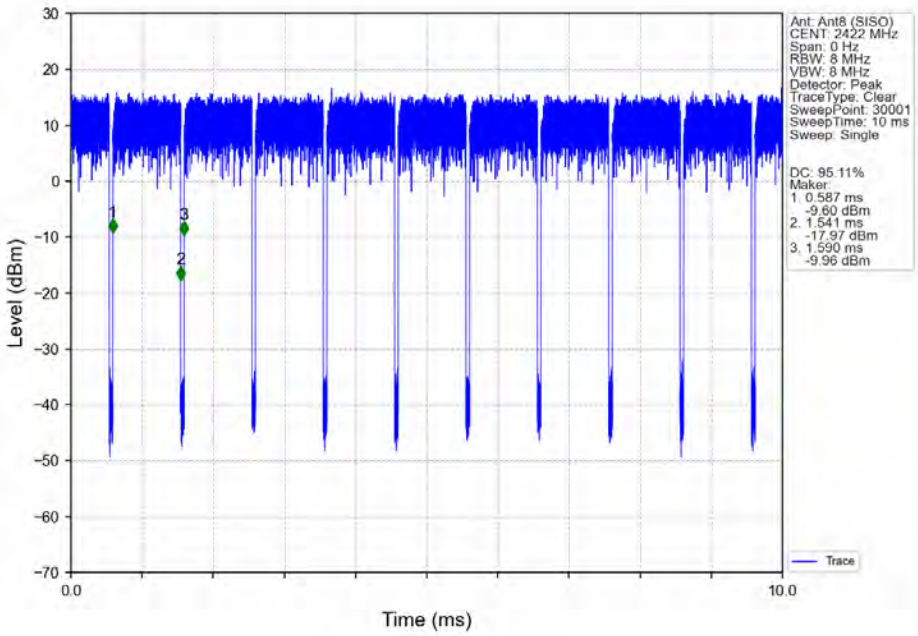



802.11ac(VHT40)_LCH_2422MHz_Ant8 (SISO)_NTNV

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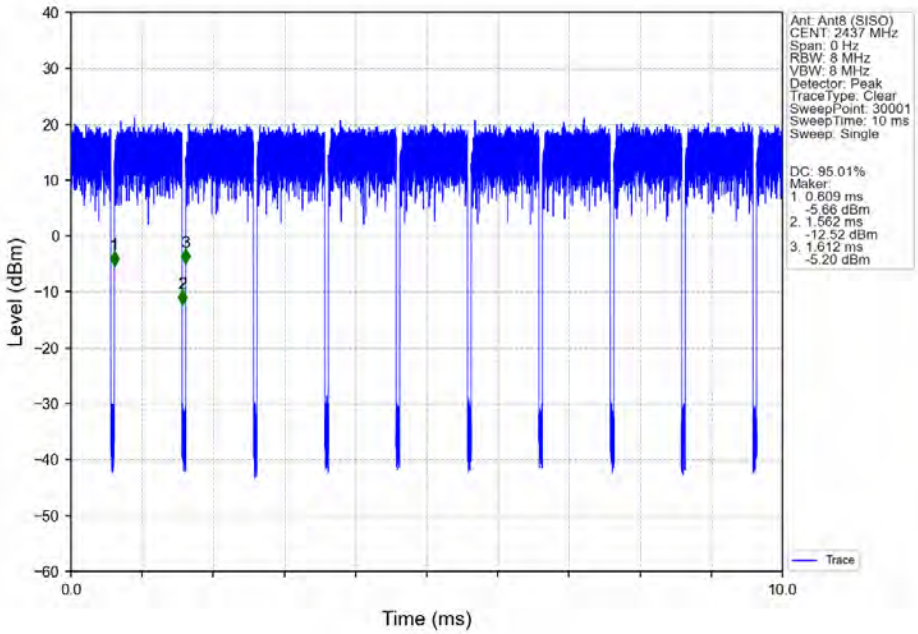
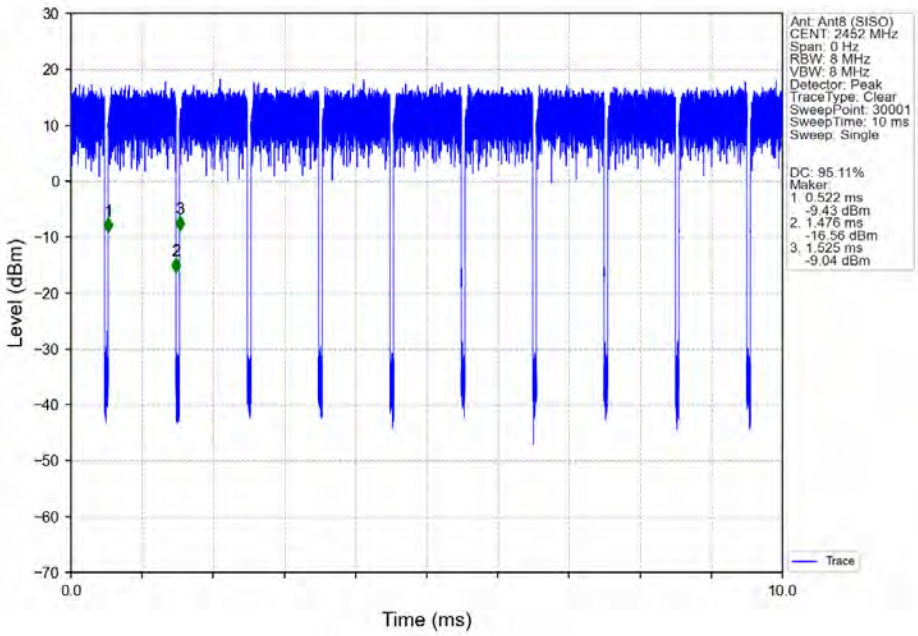
802.11ac(VHT40)_MCH_2437MHz_Ant8 (SISO)_NTNV




802.11ac(VHT40)_HCH_2452MHz_Ant8 (SISO)_NTNV

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# 2. Bandwidth

## 2.1 Test Result

### 2.1.1 OBW

| Mode | TX Type | Frequency (MHz) | ANT | 99% Occupied Bandwidth (MHz) | | Verdict |
|---|---|---|---|---|---|---|
| | | | | Result | Limit | |
| 802.11b | SISO | 2412 | 8 | 13.777 | / | Pass |
| | | 2437 | 8 | 13.775 | / | Pass |
| | | 2462 | 8 | 13.709 | / | Pass |
| 802.11g | SISO | 2412 | 8 | 17.259 | / | Pass |
| | | 2437 | 8 | 17.488 | / | Pass |
| | | 2462 | 8 | 17.179 | / | Pass |
| 802.11n (HT20) | SISO | 2412 | 8 | 18.414 | / | Pass |
| | | 2437 | 8 | 18.652 | / | Pass |
| | | 2462 | 8 | 18.426 | / | Pass |
| 802.11n (HT40) | SISO | 2422 | 8 | 36.644 | / | Pass |
| | | 2437 | 8 | 36.796 | / | Pass |
| | | 2452 | 8 | 36.563 | / | Pass |
| 802.11ac (VHT20) | SISO | 2412 | 8 | 18.398 | / | Pass |
| | | 2437 | 8 | 18.666 | / | Pass |
| | | 2462 | 8 | 18.597 | / | Pass |
| 802.11ac (VHT40) | SISO | 2422 | 8 | 36.575 | / | Pass |
| | | 2437 | 8 | 36.636 | / | Pass |
| | | 2452 | 8 | 36.433 | / | Pass |

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### 2.1.2 6dB BW

| Mode | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) | | Verdict |
|---|---|---|---|---|---|---|
| | | | | Result | Limit | |
| 802.11b | SISO | 2412 | 8 | 8.123 | >=0.5 | Pass |
| | | 2437 | 8 | 8.124 | >=0.5 | Pass |
| | | 2462 | 8 | 8.122 | >=0.5 | Pass |
| 802.11g | SISO | 2412 | 8 | 15.503 | >=0.5 | Pass |
| | | 2437 | 8 | 15.369 | >=0.5 | Pass |
| | | 2462 | 8 | 15.189 | >=0.5 | Pass |
| 802.11n (HT20) | SISO | 2412 | 8 | 15.181 | >=0.5 | Pass |
| | | 2437 | 8 | 16.061 | >=0.5 | Pass |
| | | 2462 | 8 | 15.191 | >=0.5 | Pass |
| 802.11n (HT40) | SISO | 2422 | 8 | 35.750 | >=0.5 | Pass |
| | | 2437 | 8 | 35.727 | >=0.5 | Pass |
| | | 2452 | 8 | 35.174 | >=0.5 | Pass |
| 802.11ac (VHT20) | SISO | 2412 | 8 | 15.189 | >=0.5 | Pass |
| | | 2437 | 8 | 15.375 | >=0.5 | Pass |
| | | 2462 | 8 | 15.172 | >=0.5 | Pass |
| 802.11ac (VHT40) | SISO | 2422 | 8 | 35.709 | >=0.5 | Pass |
| | | 2437 | 8 | 35.361 | >=0.5 | Pass |
| | | 2452 | 8 | 35.180 | >=0.5 | Pass |

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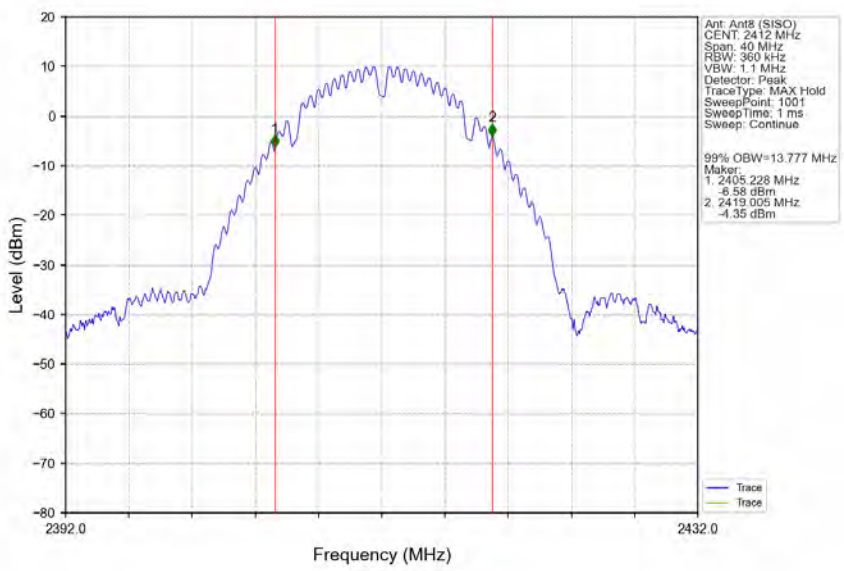
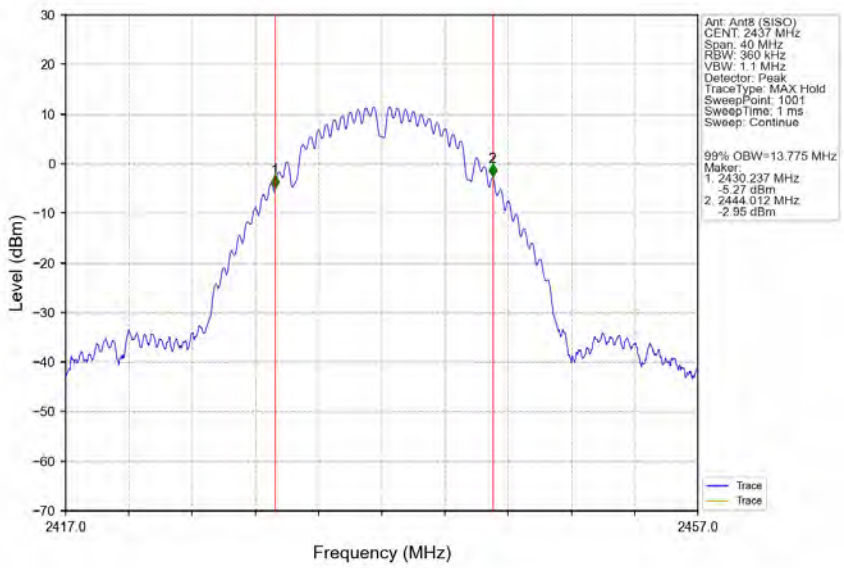
## 2.2 Test Graph

### 2.2.1 OBW

802.11b_LCH_2412MHz_Ant8 (SISO)_NTNV




802.11b_MCH_2437MHz_Ant8 (SISO)_NTNV

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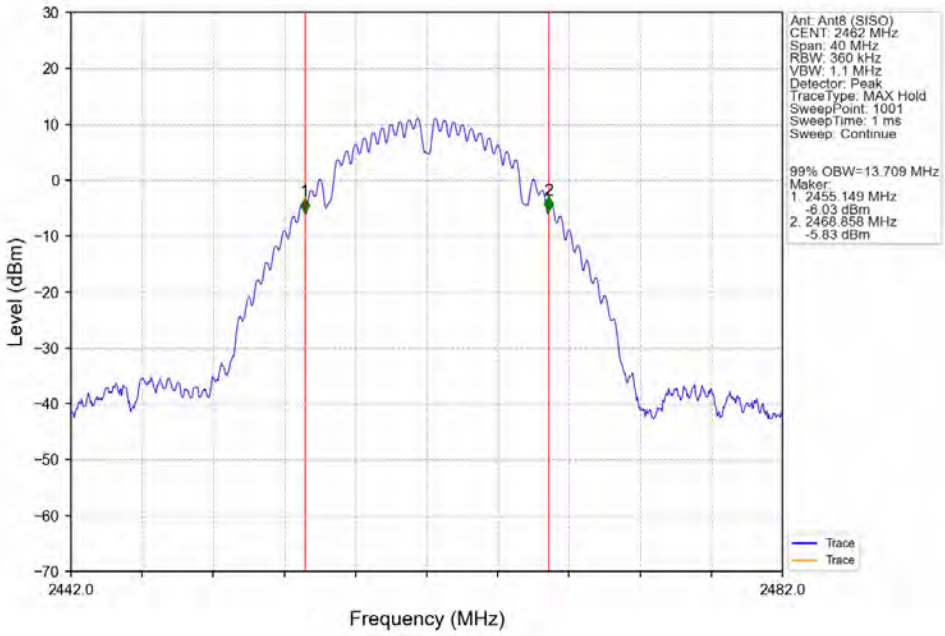
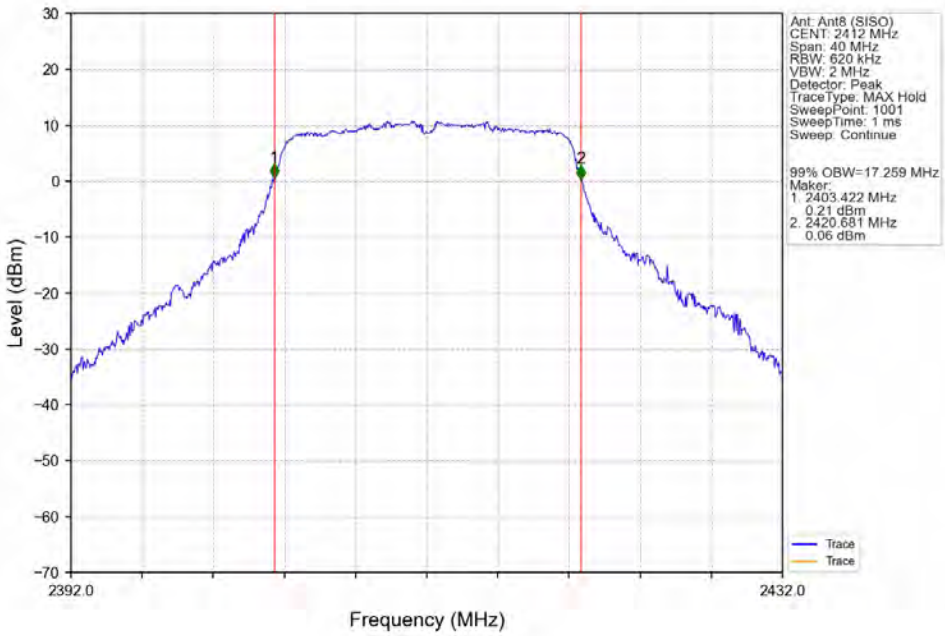
802.11b_HCH_2462MHz_Ant8 (SISO)_NTNV




802.11g_LCH_2412MHz_Ant8 (SISO)_NTNV

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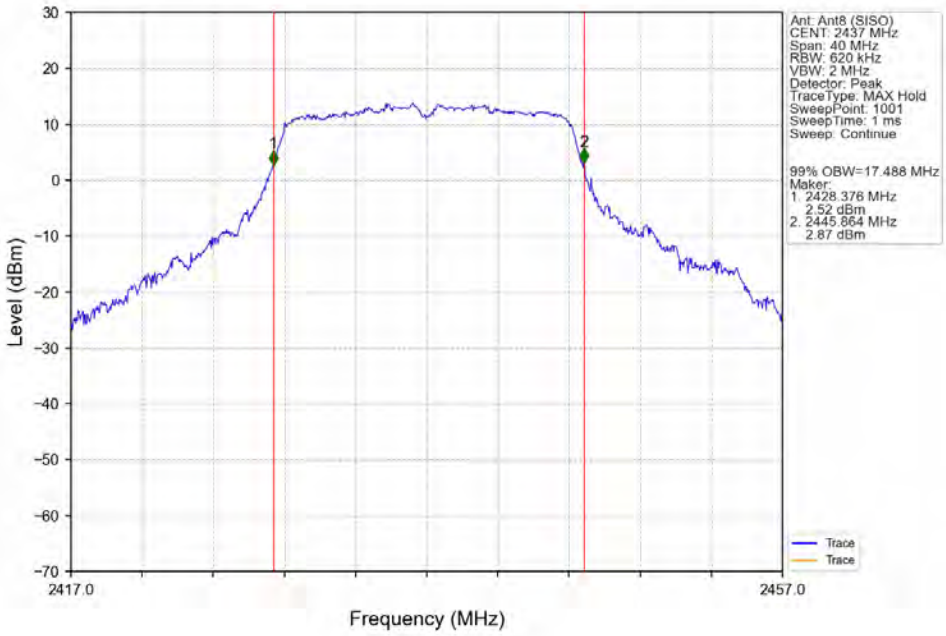
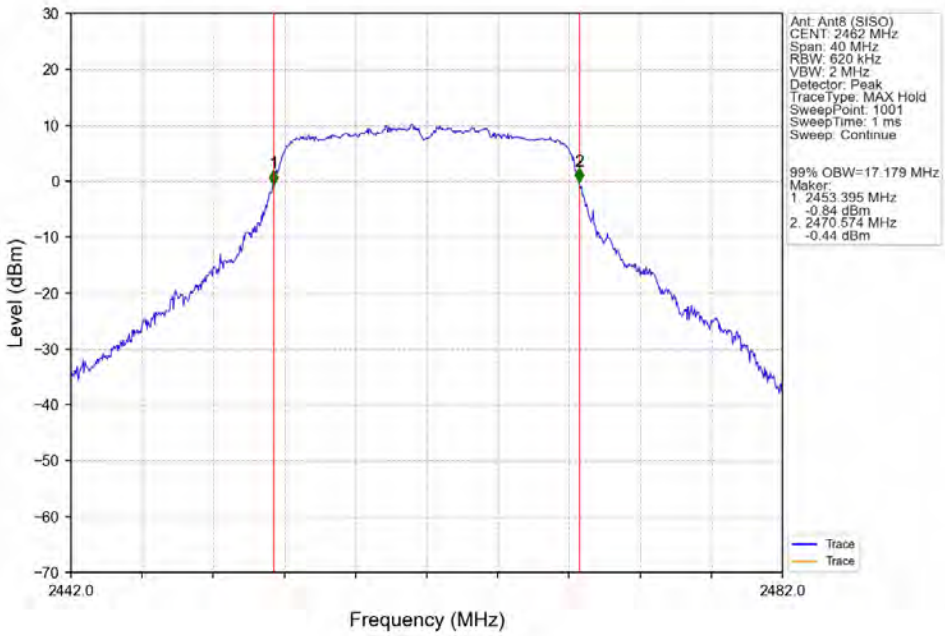
802.11g_MCH_2437MHz_Ant8 (SISO)_NTNV




802.11g_HCH_2462MHz_Ant8 (SISO)_NTNV

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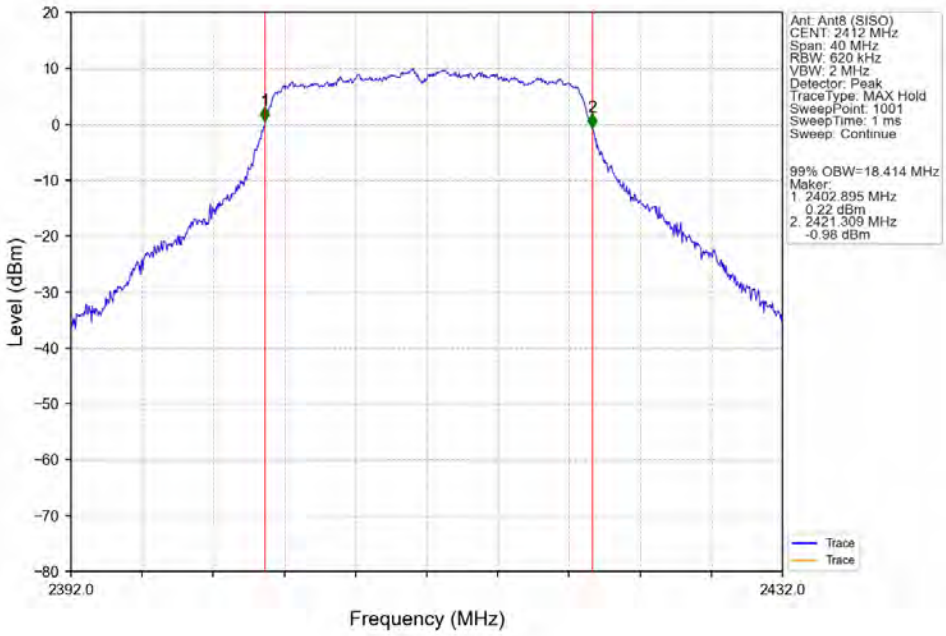
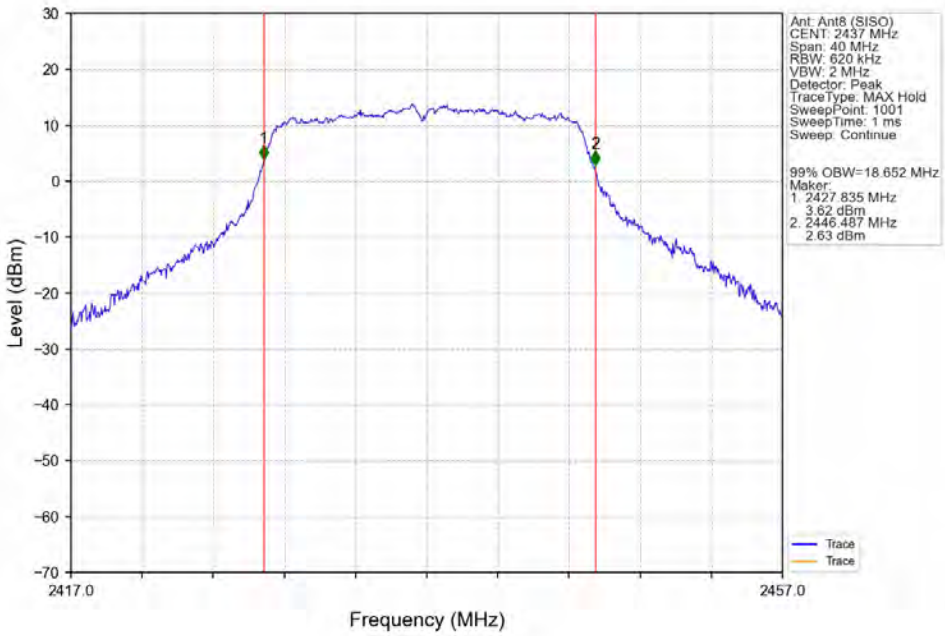



802.11n(HT20)_MCH_2437MHz_Ant8 (SISO)_NTNV

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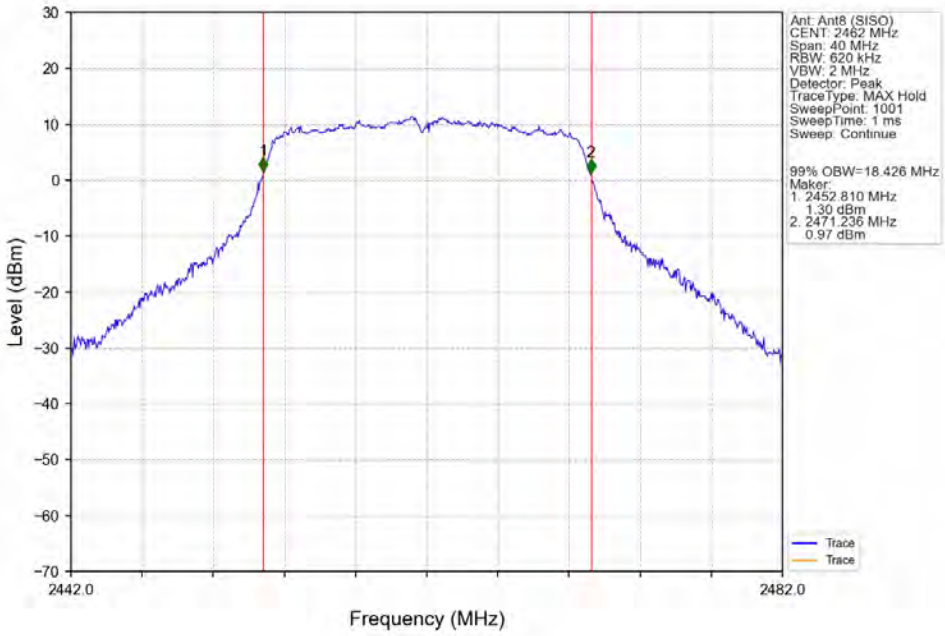
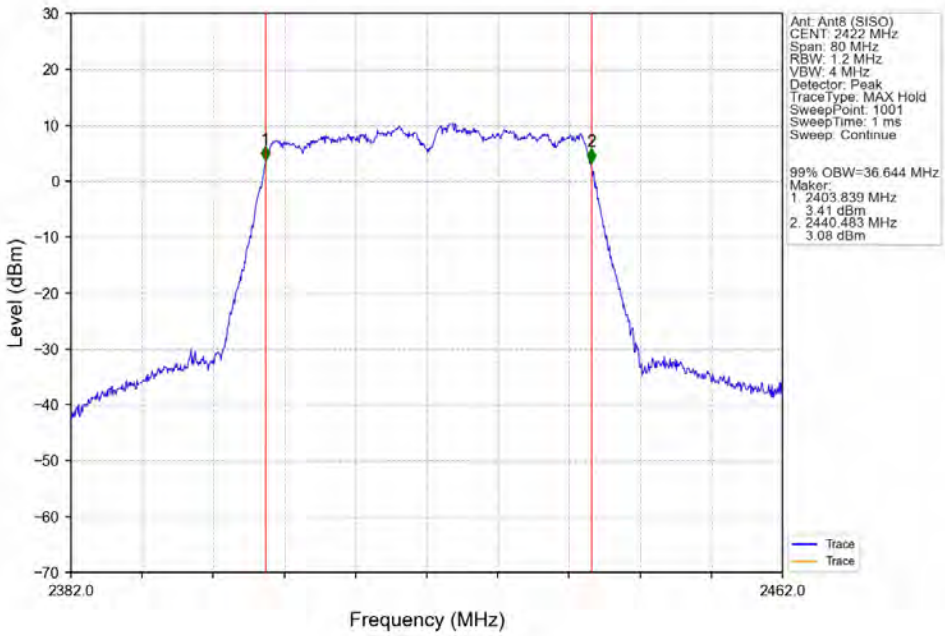



802.11n(HT40)_LCH_2422MHz_Ant8 (SISO)_NTNV

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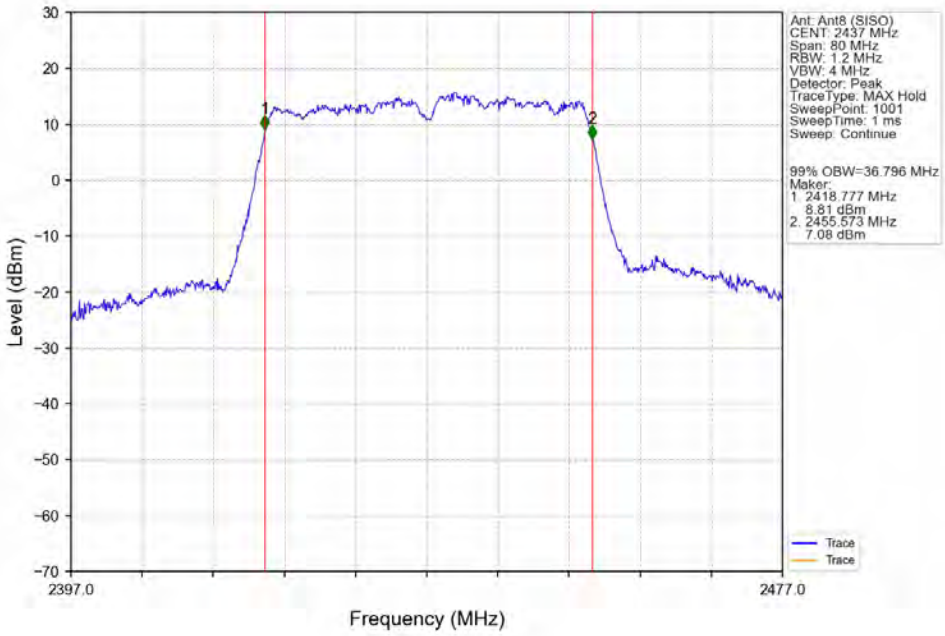
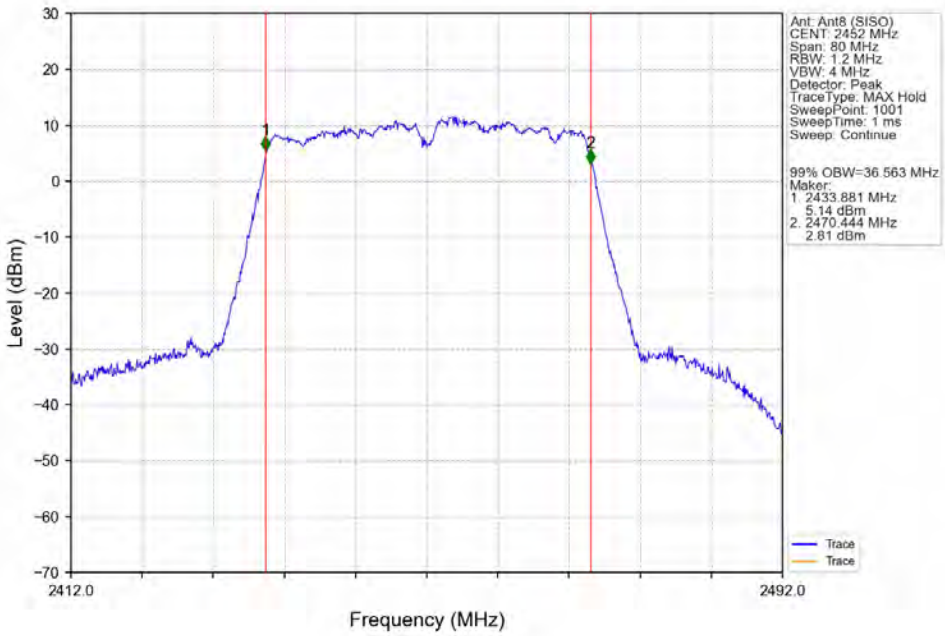



802.11n(HT40)_HCH_2452MHz_Ant8 (SISO)_NTNV

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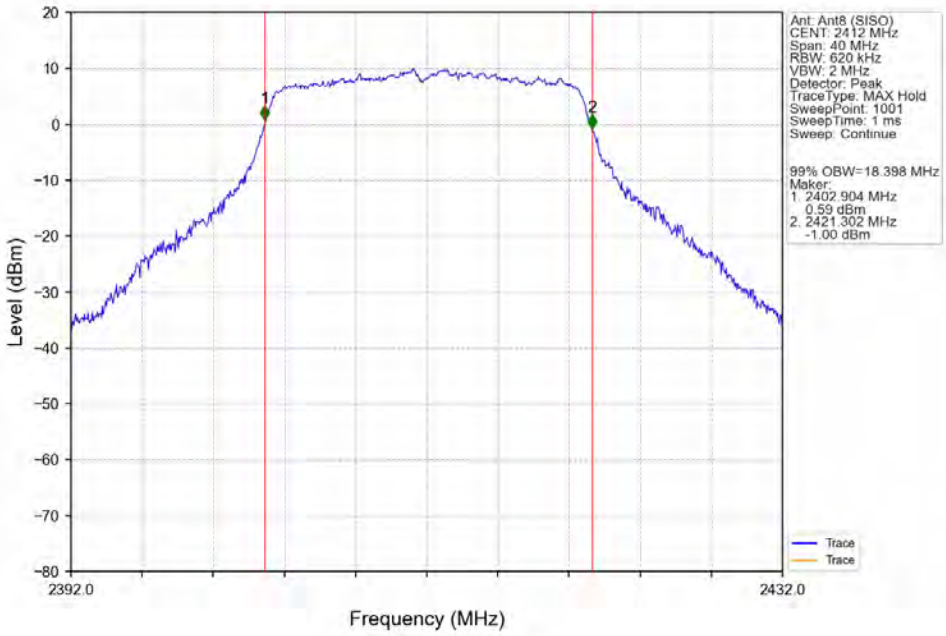


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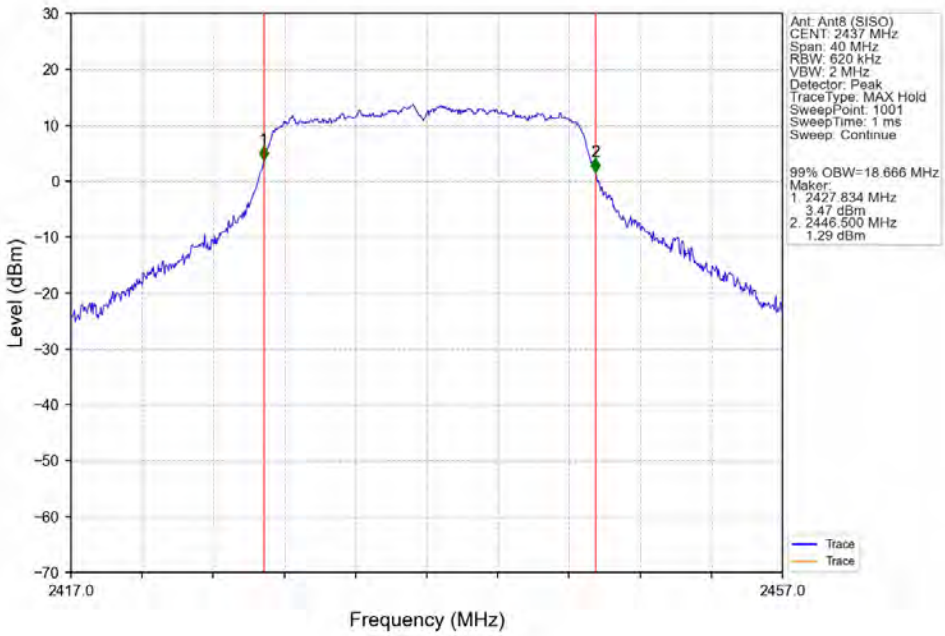


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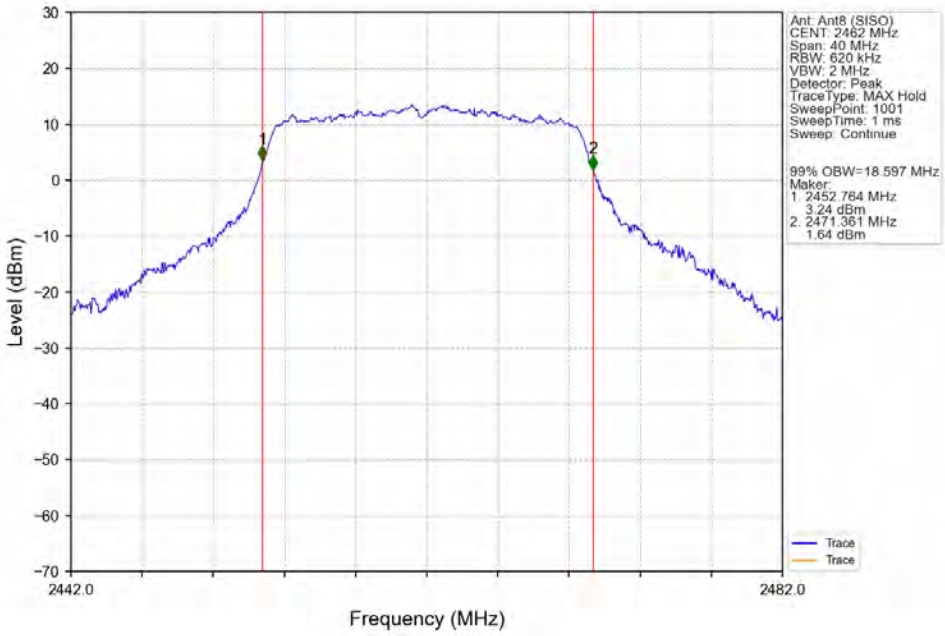
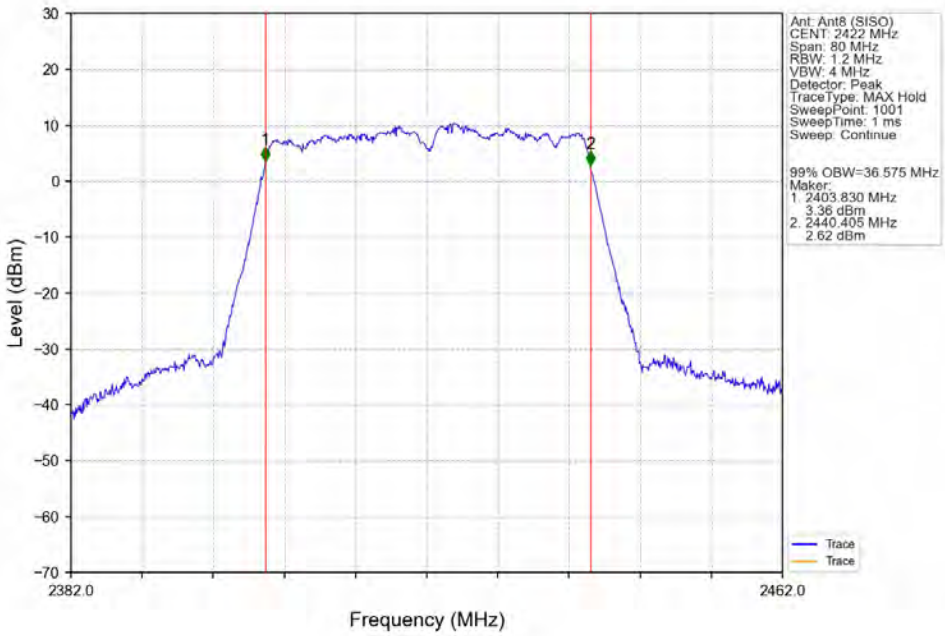
802.11ac(VHT20)_HCH_2462MHz_Ant8 (SISO)_NTNV




802.11ac(VHT40)_LCH_2422MHz_Ant8 (SISO)_NTNV

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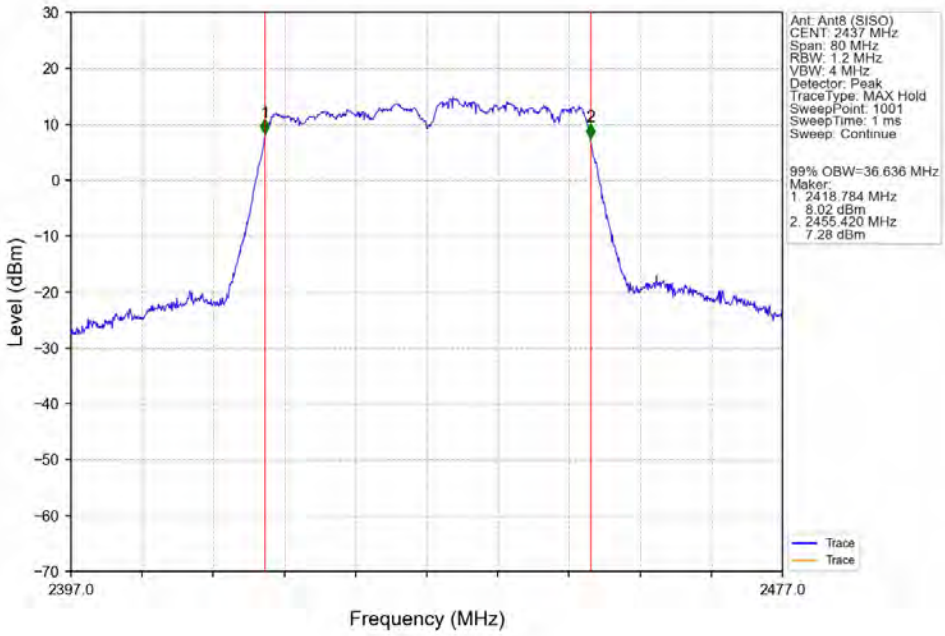
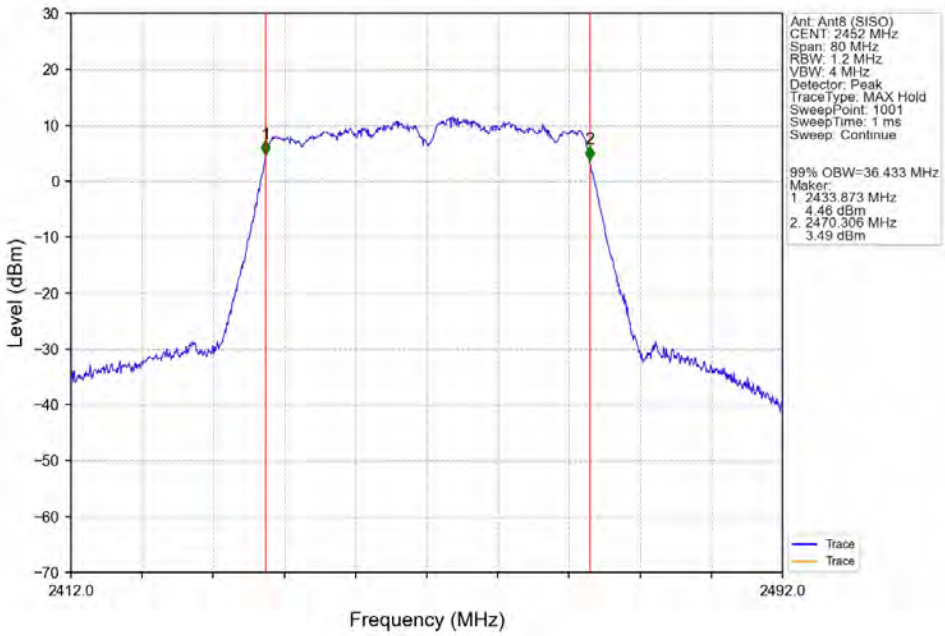
802.11ac(VHT40)_MCH_2437MHz_Ant8 (SISO)_NTNV




802.11ac(VHT40)_HCH_2452MHz_Ant8 (SISO)_NTNV

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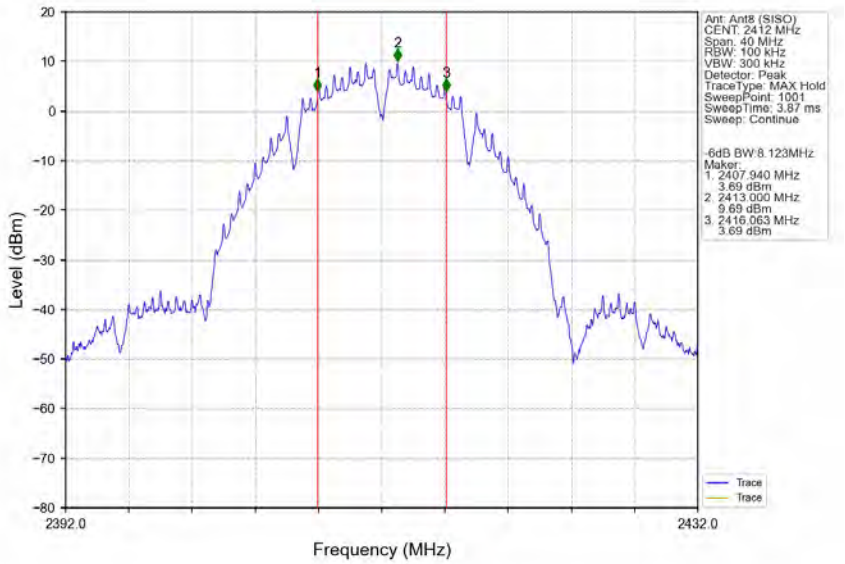
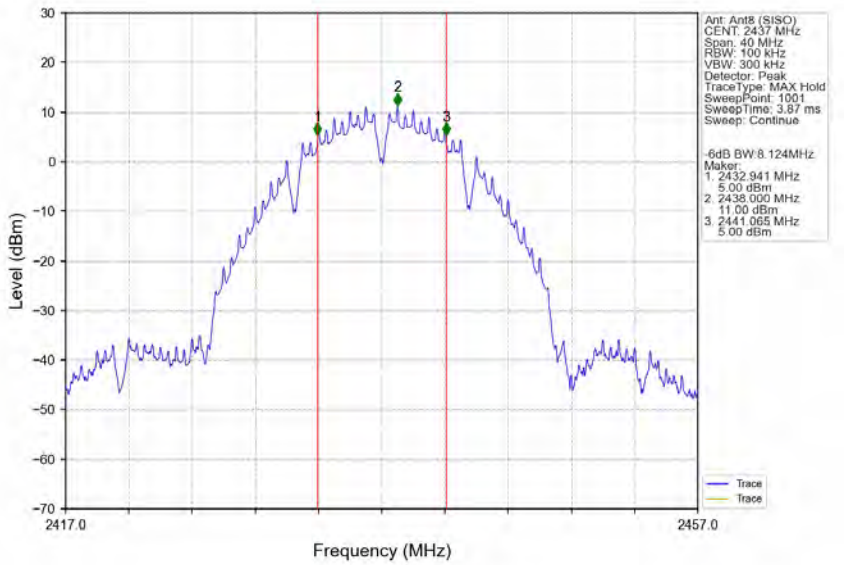
## 2.2.2 6dB BW

802.11b_LCH_2412MHz_Ant8 (SISO)_NTNV




802.11b_MCH_2437MHz_Ant8 (SISO)_NTNV

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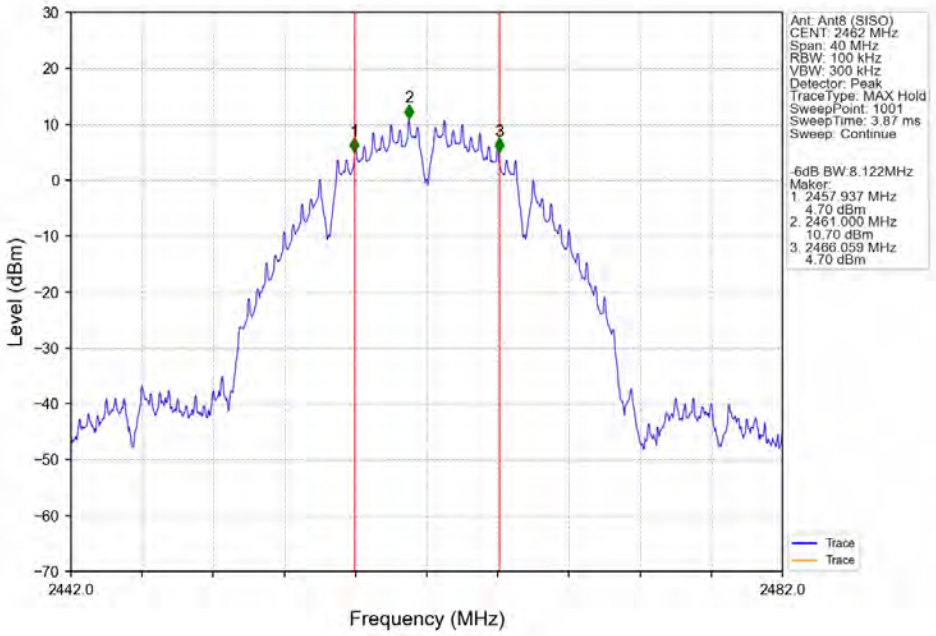
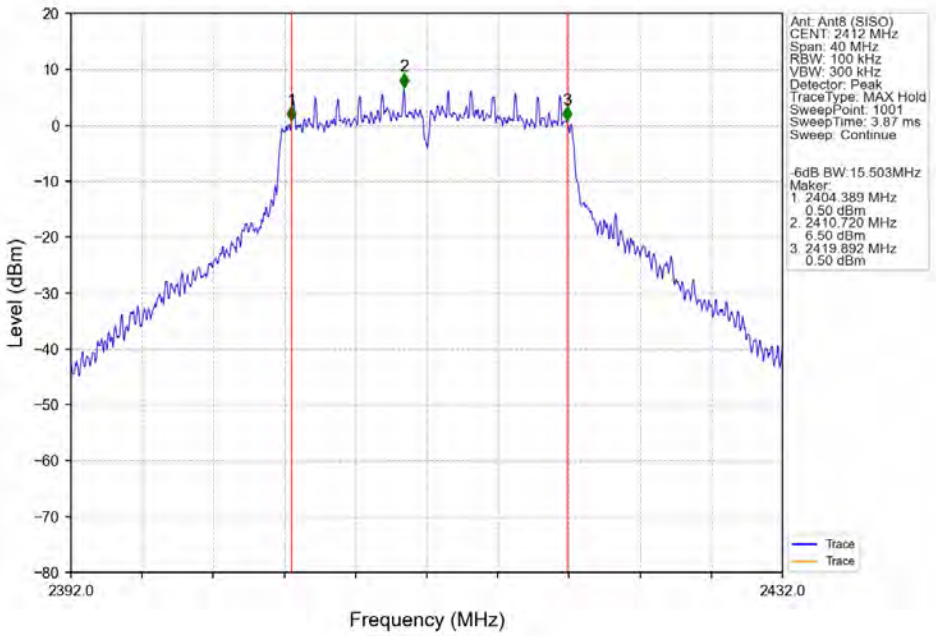
802.11b_HCH_2462MHz_Ant8 (SISO)_NTNV




802.11g_LCH_2412MHz_Ant8 (SISO)_NTNV

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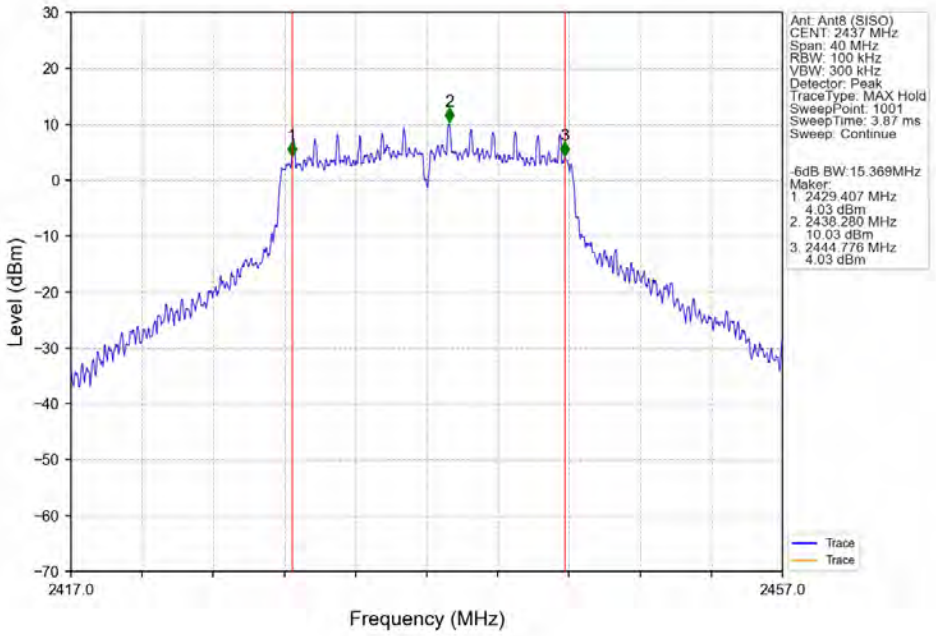
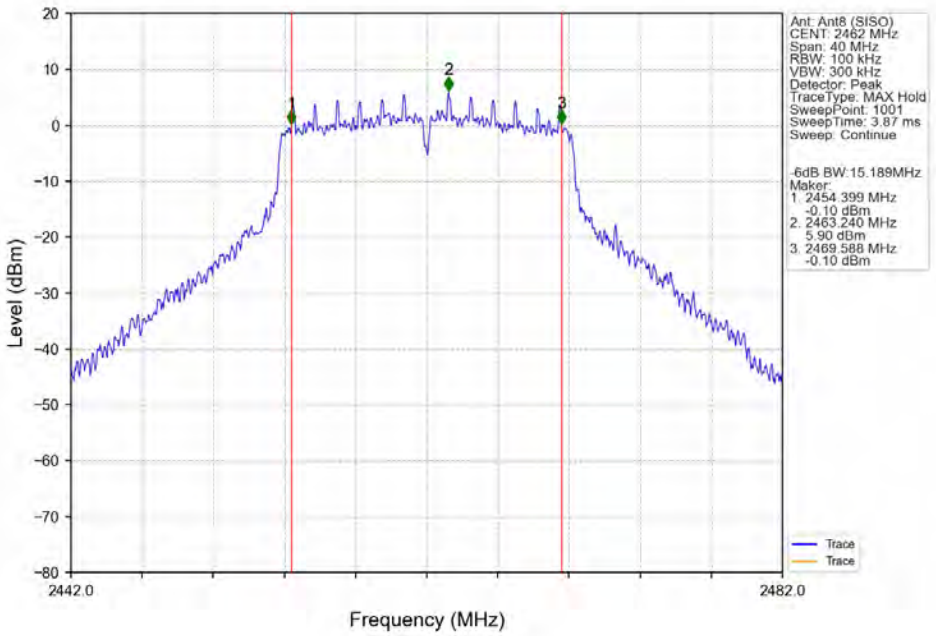
802.11g_MCH_2437MHz_Ant8 (SISO)_NTNV




802.11g_HCH_2462MHz_Ant8 (SISO)_NTNV

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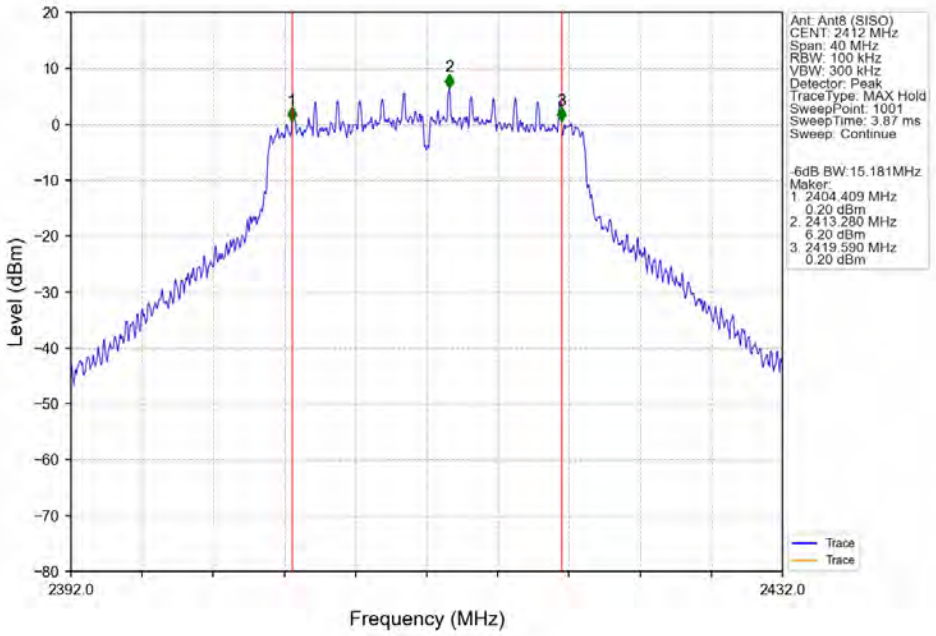
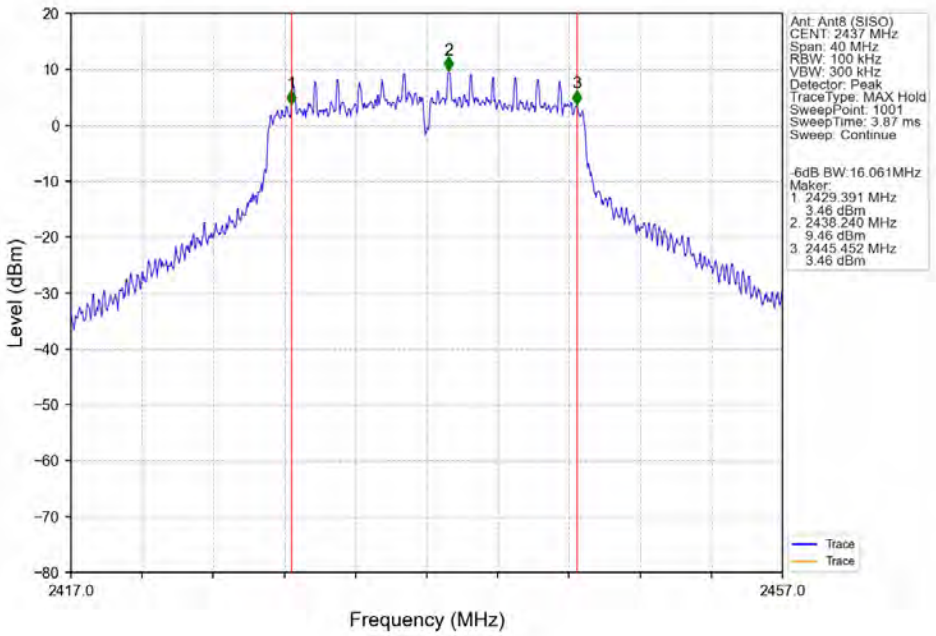
802.11n(HT20)_LCH_2412MHz_Ant8 (SISO)_NTNV




802.11n(HT20)_MCH_2437MHz_Ant8 (SISO)_NTNV

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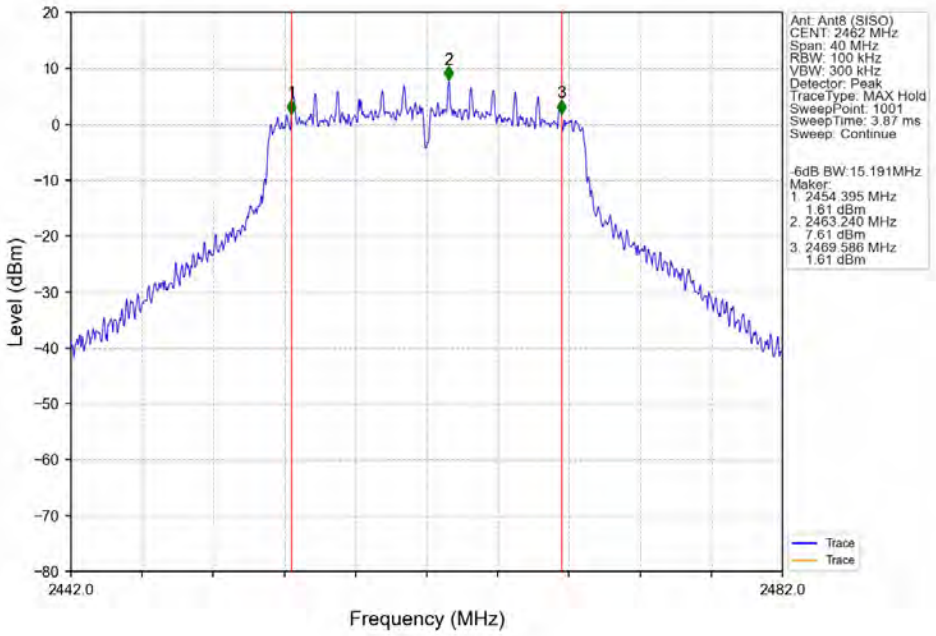
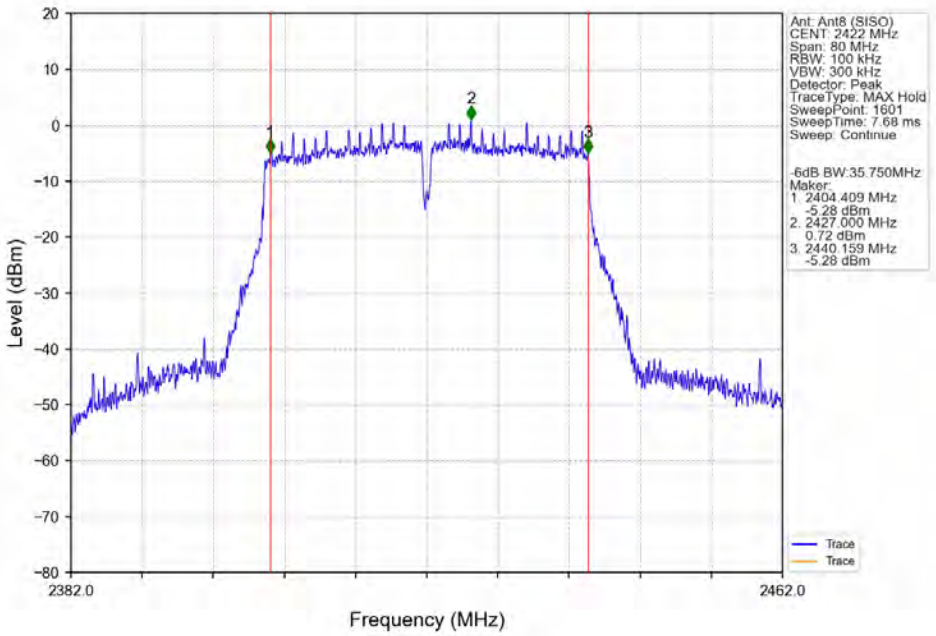
802.11n(HT20)_HCH_2462MHz_Ant8 (SISO)_NTNV




802.11n(HT40)_LCH_2422MHz_Ant8 (SISO)_NTNV

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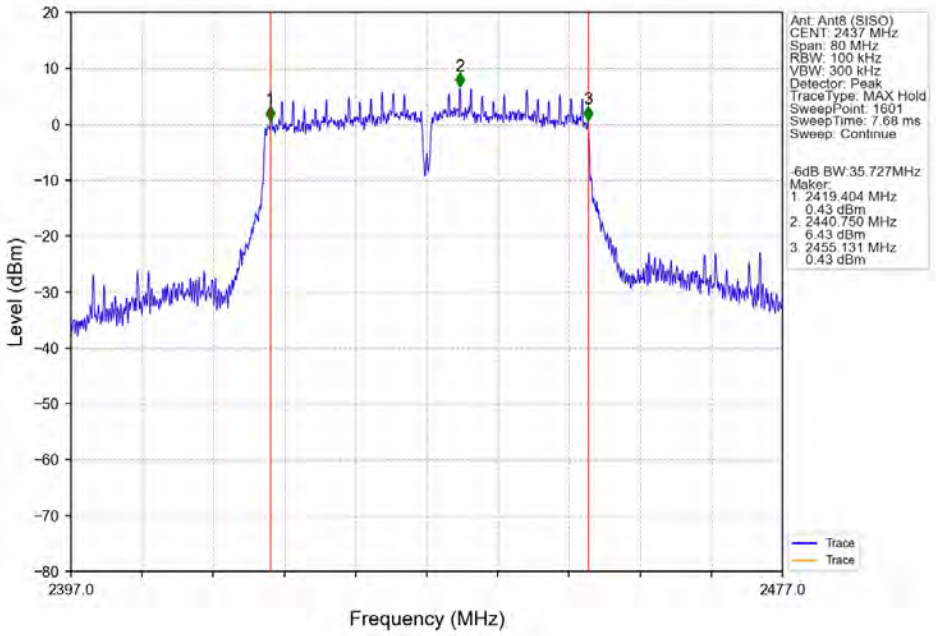
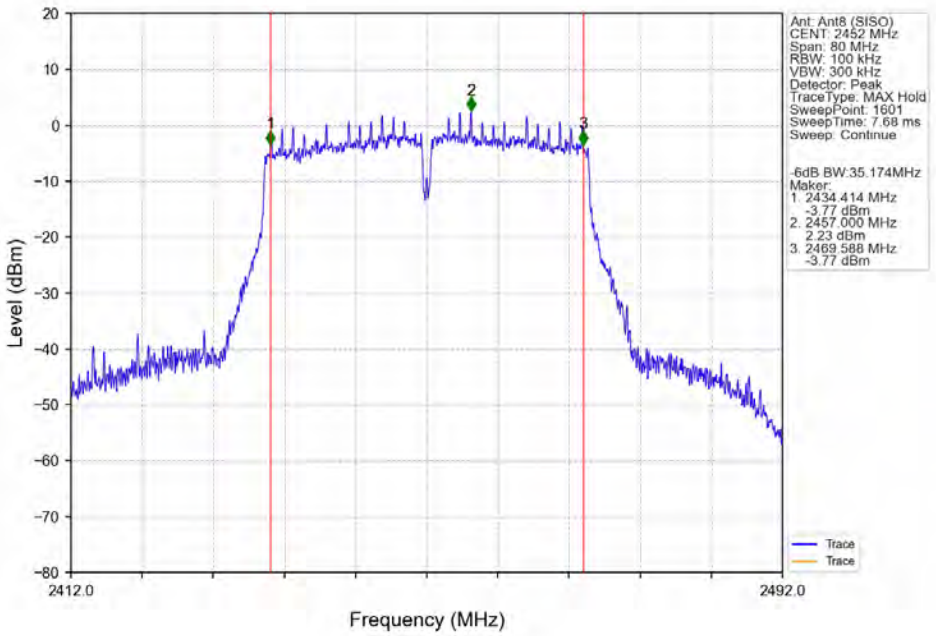
802.11n(HT40)_MCH_2437MHz_Ant8 (SISO)_NTNV




802.11n(HT40)_HCH_2452MHz_Ant8 (SISO)_NTNV

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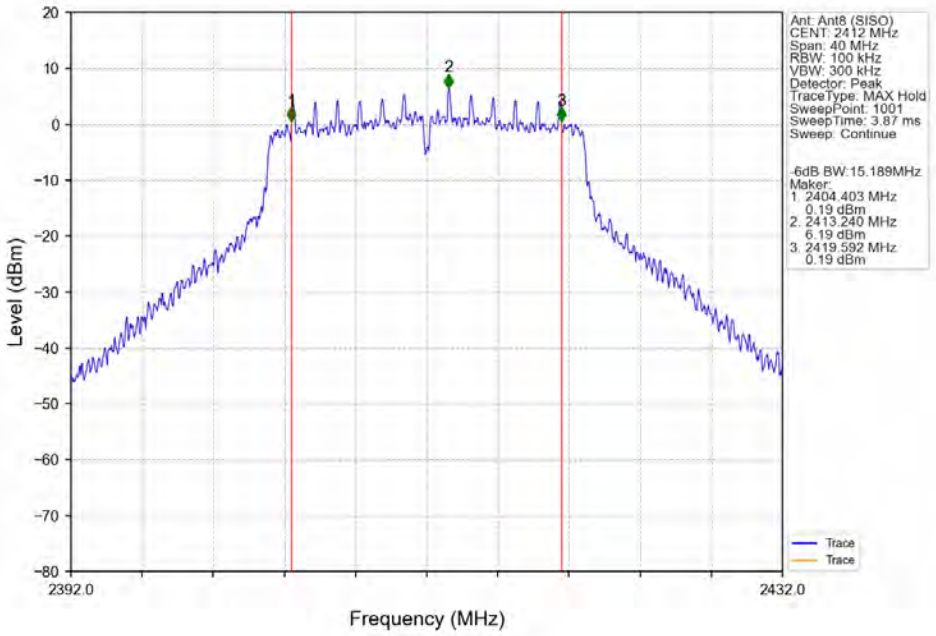
802.11ac(VHT20)_LCH_2412MHz_Ant8 (SISO)_NTNV

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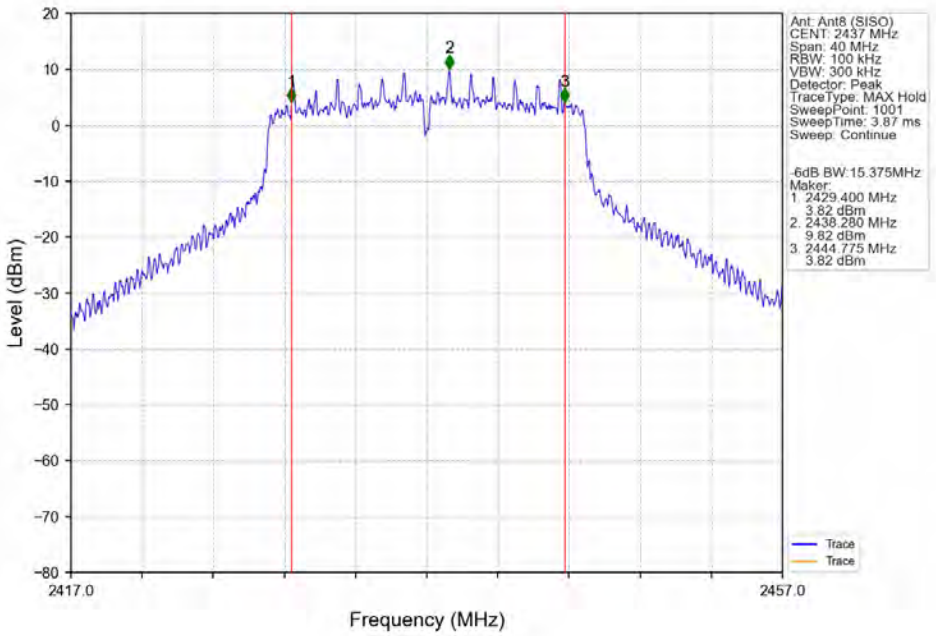


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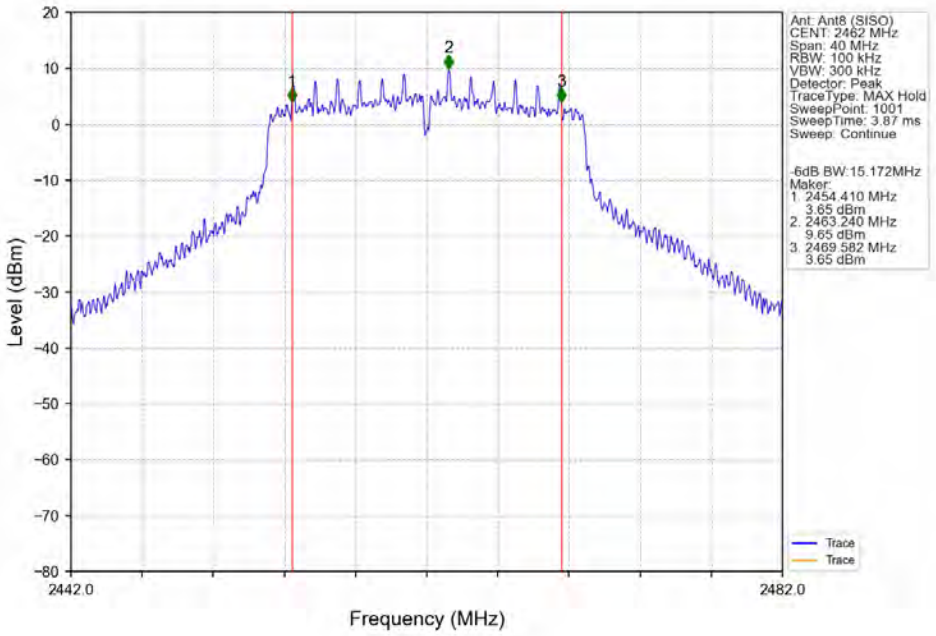
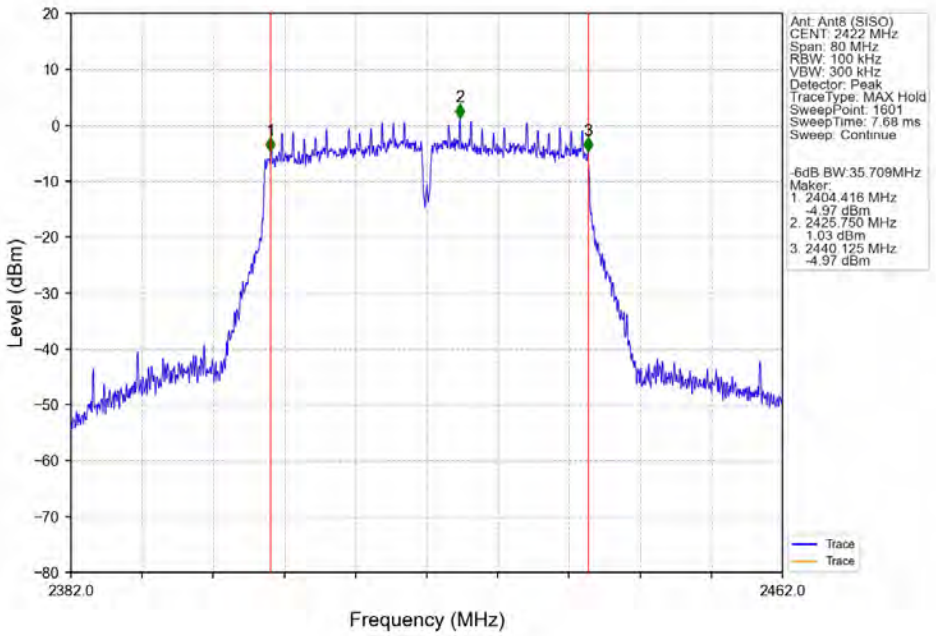



802.11ac(VHT40)_LCH_2422MHz_Ant8 (SISO)_NTNV

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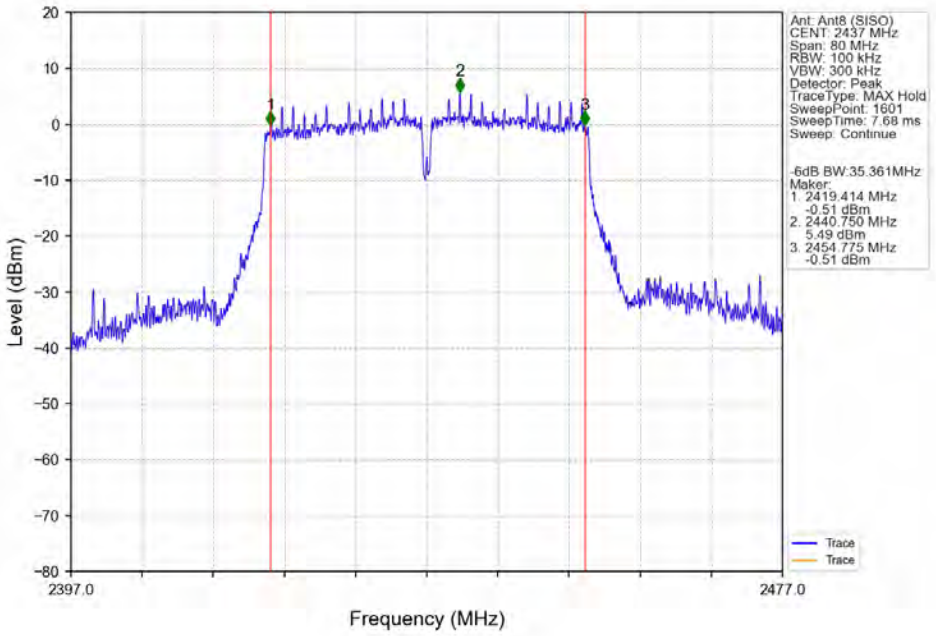
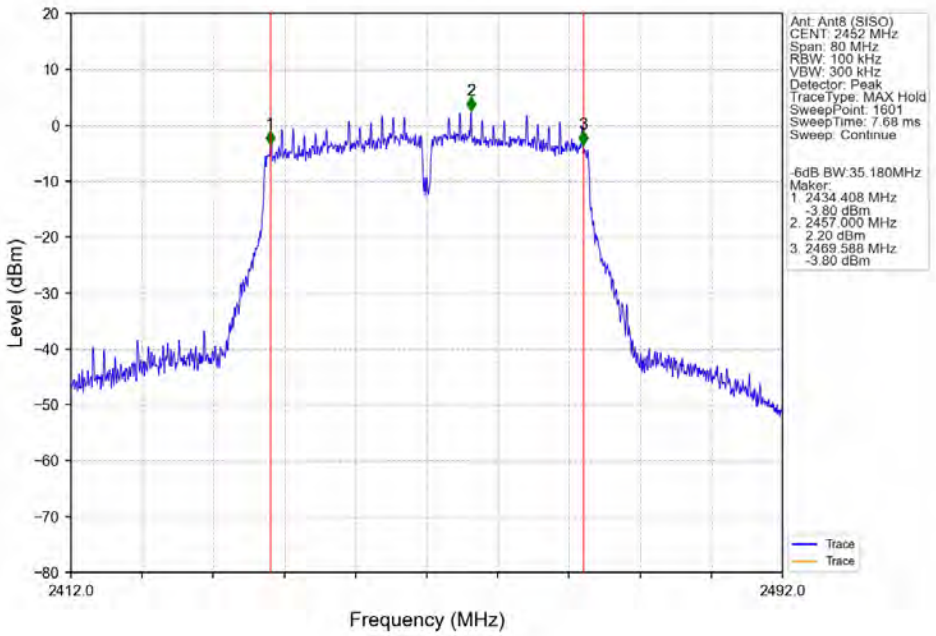



802.11ac(VHT40)_HCH_2452MHz_Ant8 (SISO)_NTNV

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# 3. Maximum Conducted Output Power

## 3.1 Test Result

### 3.1.1 Power

| Mode | TX Type | Frequency (MHz) | Maximum Peak Conducted Output Power (dBm) | | Verdict |
|---|---|---|---|---|---|
| | | | ANT8 | Limit | |
| 802.11b | SISO | 2412 | 20.26 | <=30 | Pass |
| | | 2437 | 21.65 | <=30 | Pass |
| | | 2462 | 21.27 | <=30 | Pass |
| 802.11g | SISO | 2412 | 23.85 | <=30 | Pass |
| | | 2437 | 26.64 | <=30 | Pass |
| | | 2462 | 22.92 | <=30 | Pass |
| 802.11n (HT20) | SISO | 2412 | 22.46 | <=30 | Pass |
| | | 2437 | 26.47 | <=30 | Pass |
| | | 2462 | 23.98 | <=30 | Pass |
| 802.11n (HT40) | SISO | 2422 | 22.09 | <=30 | Pass |
| | | 2437 | 27.38 | <=30 | Pass |
| | | 2452 | 23.09 | <=30 | Pass |
| 802.11ac (VHT20) | SISO | 2412 | 22.55 | <=30 | Pass |
| | | 2437 | 26.30 | <=30 | Pass |
| | | 2462 | 26.01 | <=30 | Pass |
| 802.11ac (VHT40) | SISO | 2422 | 22.08 | <=30 | Pass |
| | | 2437 | 26.35 | <=30 | Pass |
| | | 2452 | 23.05 | <=30 | Pass |
| Note1: Antenna Gain: Ant8: -1.00dBi; | | | | | |

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# 4. Maximum Power Spectral Density

## 4.1 Test Result

### 4.1.1 PSD

| Mode | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) | | Verdict |
|---|---|---|---|---|---|
| | | | ANT8 | Limit | |
| 802.11b | SISO | 2412 | -7.35 | <=8 | Pass |
| | | 2437 | -5.80 | <=8 | Pass |
| | | 2462 | -7.17 | <=8 | Pass |
| 802.11g | SISO | 2412 | -10.04 | <=8 | Pass |
| | | 2437 | -7.02 | <=8 | Pass |
| | | 2462 | -10.99 | <=8 | Pass |
| 802.11n (HT20) | SISO | 2412 | -11.30 | <=8 | Pass |
| | | 2437 | -7.52 | <=8 | Pass |
| | | 2462 | -10.05 | <=8 | Pass |
| 802.11n (HT40) | SISO | 2422 | -15.15 | <=8 | Pass |
| | | 2437 | -9.27 | <=8 | Pass |
| | | 2452 | -14.11 | <=8 | Pass |
| 802.11ac (VHT20) | SISO | 2412 | -12.50 | <=8 | Pass |
| | | 2437 | -7.87 | <=8 | Pass |
| | | 2462 | -8.73 | <=8 | Pass |
| 802.11ac (VHT40) | SISO | 2422 | -15.74 | <=8 | Pass |
| | | 2437 | -10.31 | <=8 | Pass |
| | | 2452 | -13.71 | <=8 | Pass |
| Note1: Antenna Gain: Ant8: -1.00dBi; | | | | | |

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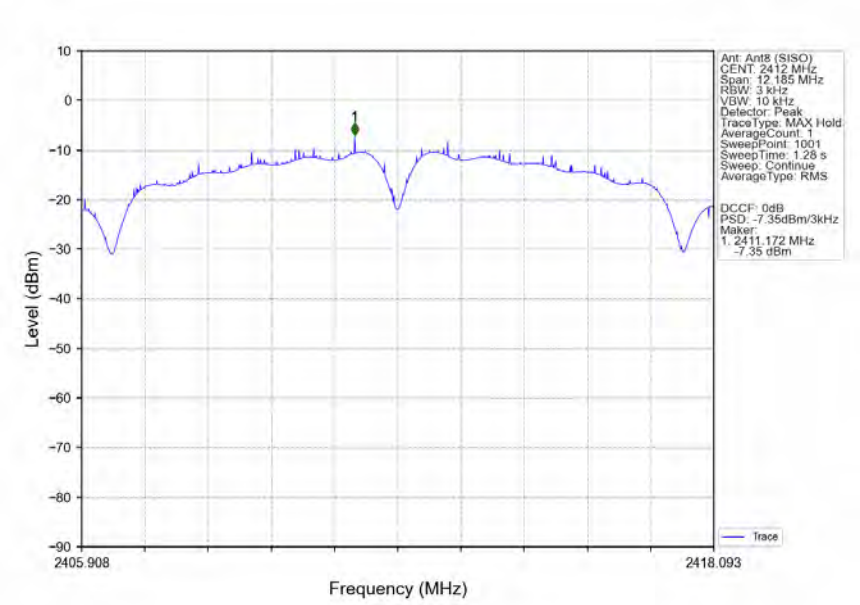
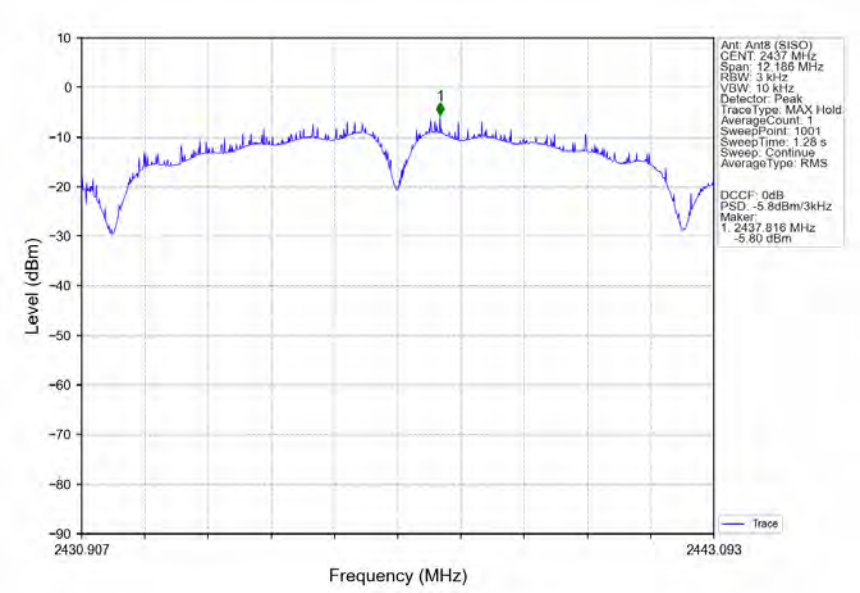
## 4.2 Test Graph

### 4.2.1 PSD

802.11b_LCH_2412MHz_Ant8 (SISO)_NTNV




802.11b_MCH_2437MHz_Ant8 (SISO)_NTNV

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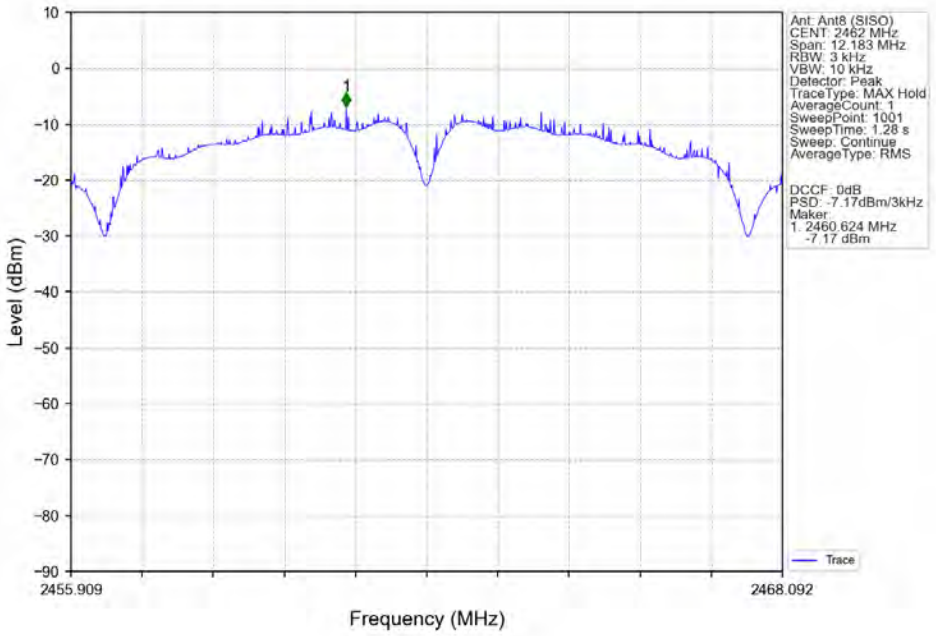
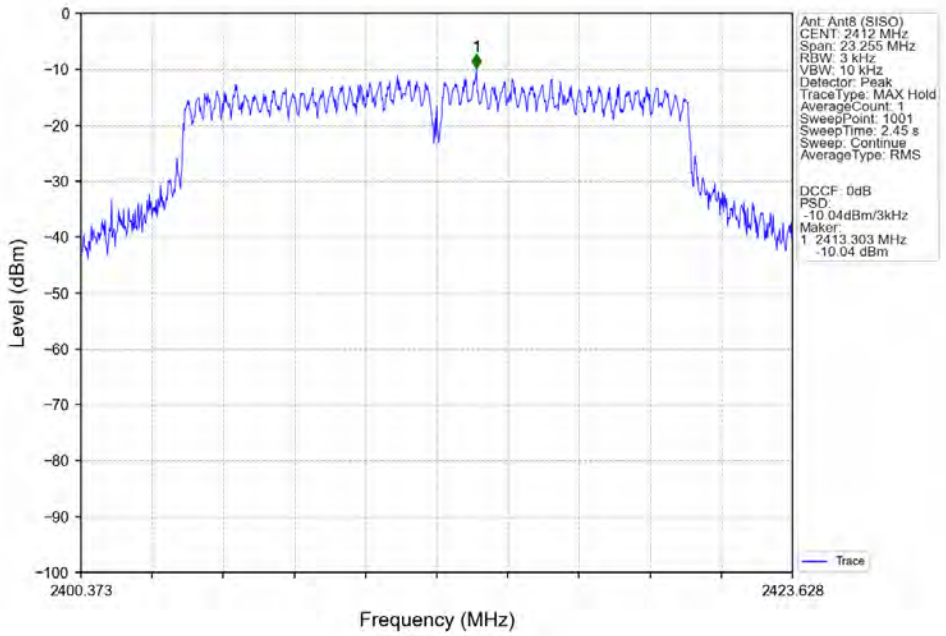
802.11b_HCH_2462MHz_Ant8 (SISO)_NTNV




802.11g_LCH_2412MHz_Ant8 (SISO)_NTNV

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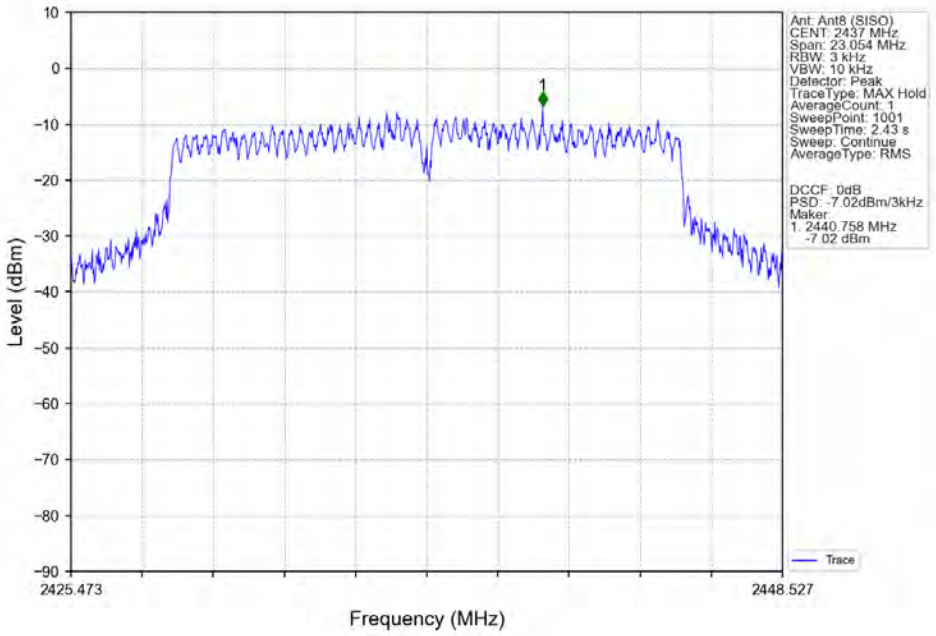
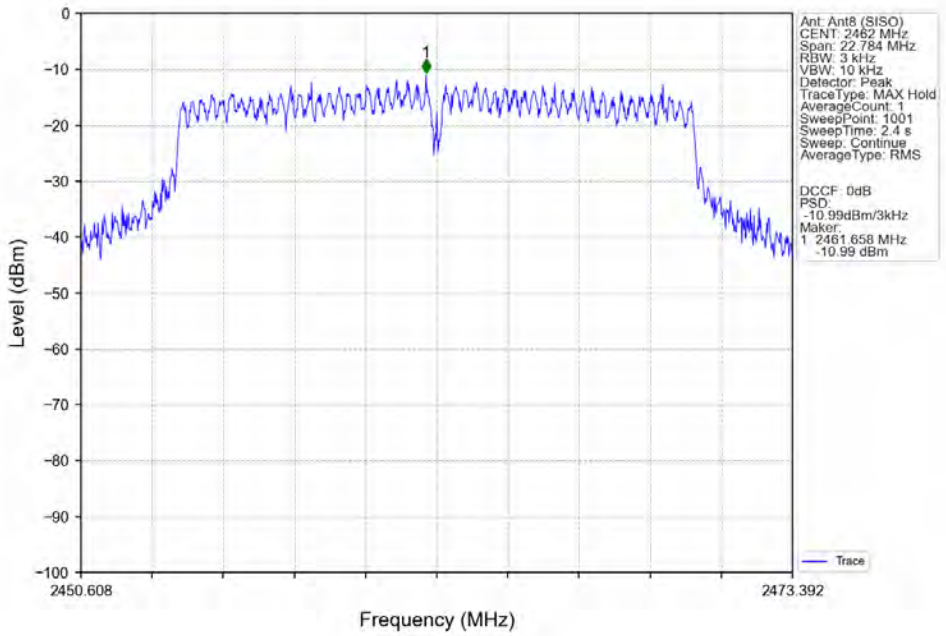
802.11g_MCH_2437MHz_Ant8 (SISO)_NTNV




802.11g_HCH_2462MHz_Ant8 (SISO)_NTNV

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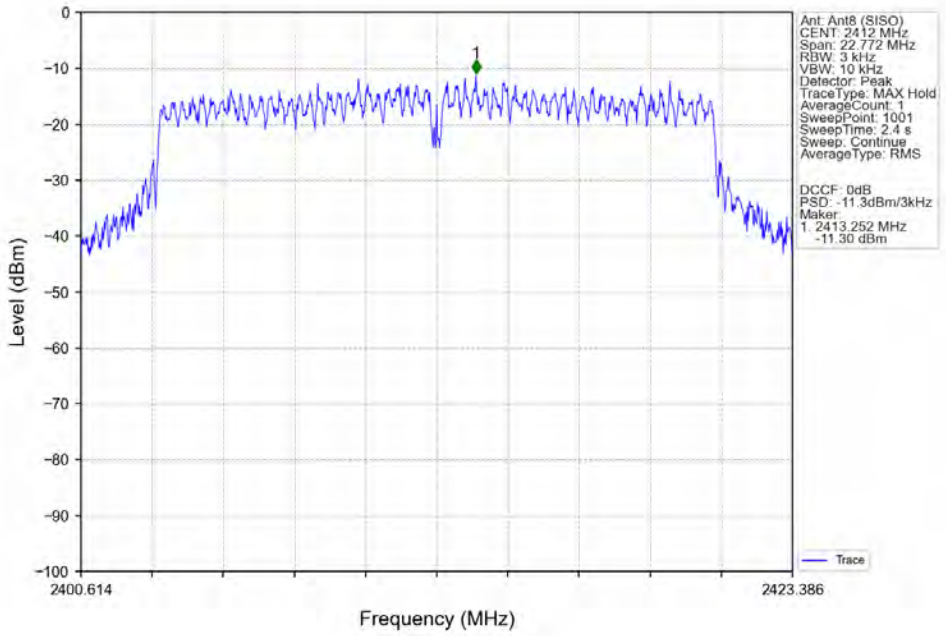
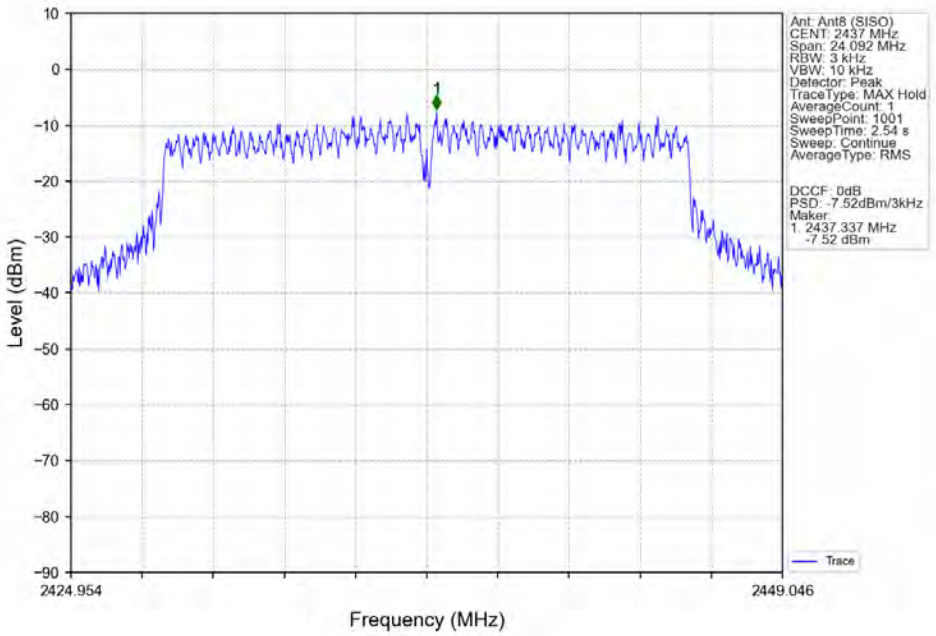
802.11n(HT20)_LCH_2412MHz_Ant8 (SISO)_NTNV




802.11n(HT20)_MCH_2437MHz_Ant8 (SISO)_NTNV

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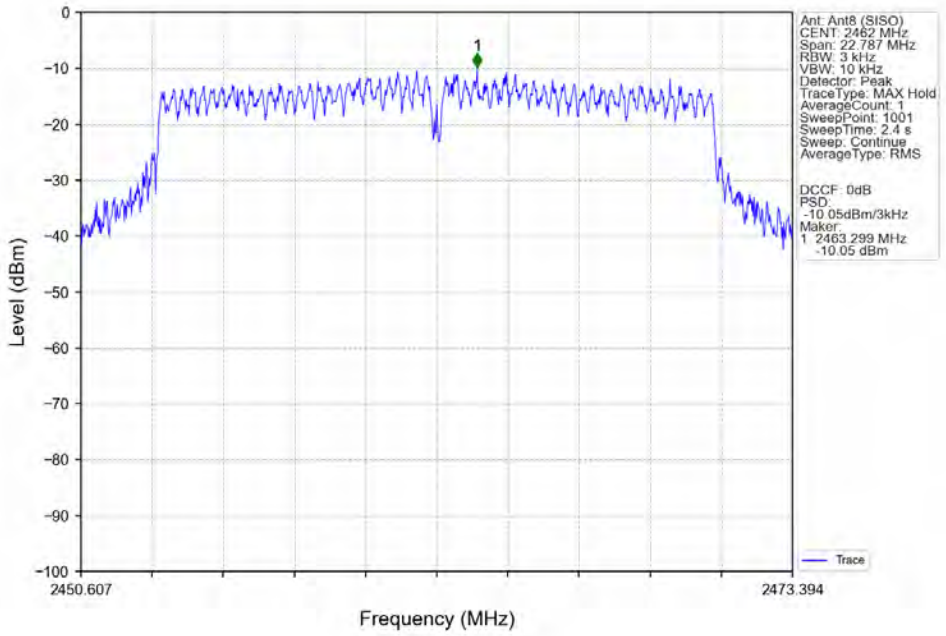
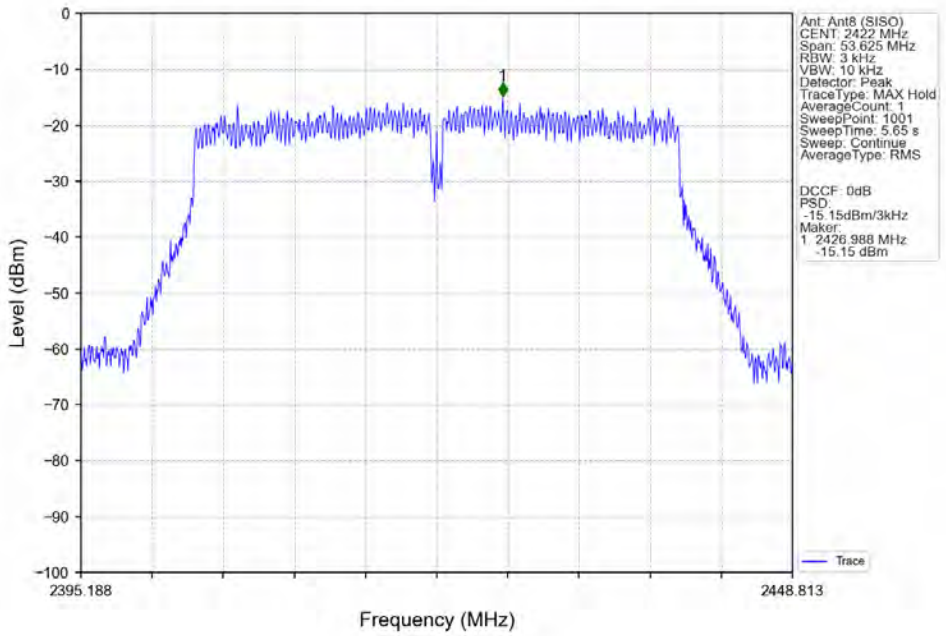
802.11n(HT20)_HCH_2462MHz_Ant8 (SISO)_NTNV




802.11n(HT40)_LCH_2422MHz_Ant8 (SISO)_NTNV

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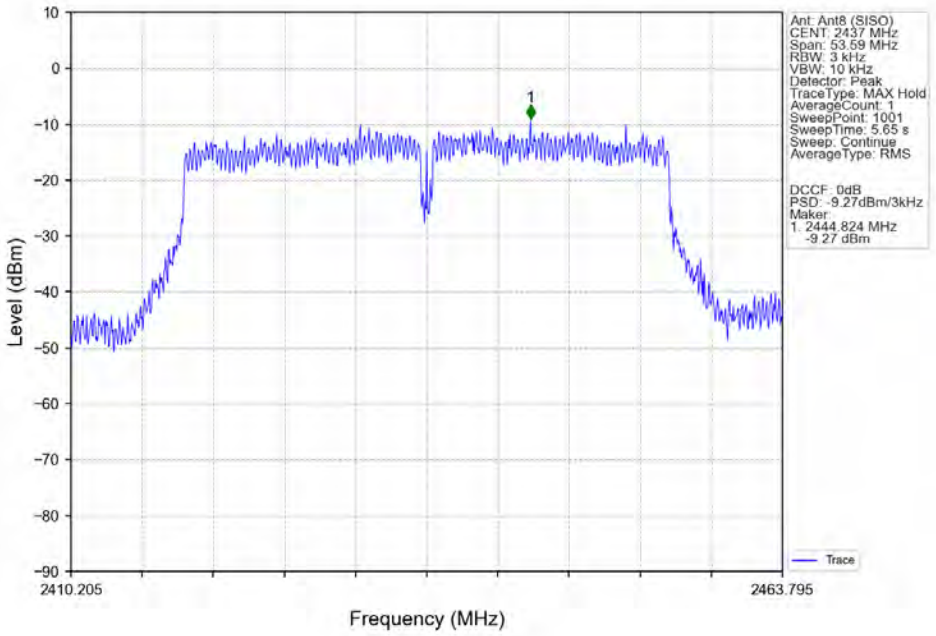
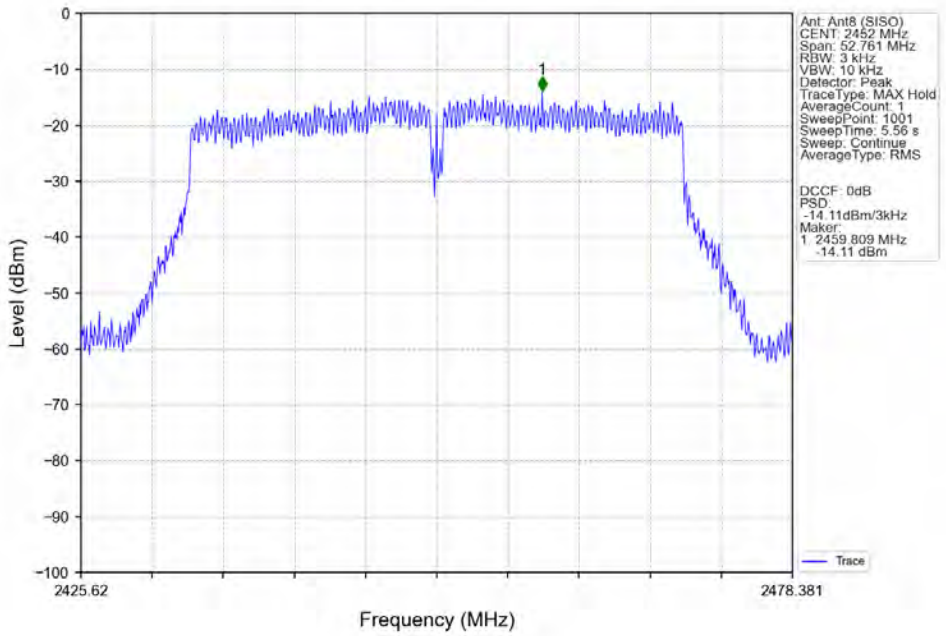
802.11n(HT40)_MCH_2437MHz_Ant8 (SISO)_NTNV




802.11n(HT40)_HCH_2452MHz_Ant8 (SISO)_NTNV

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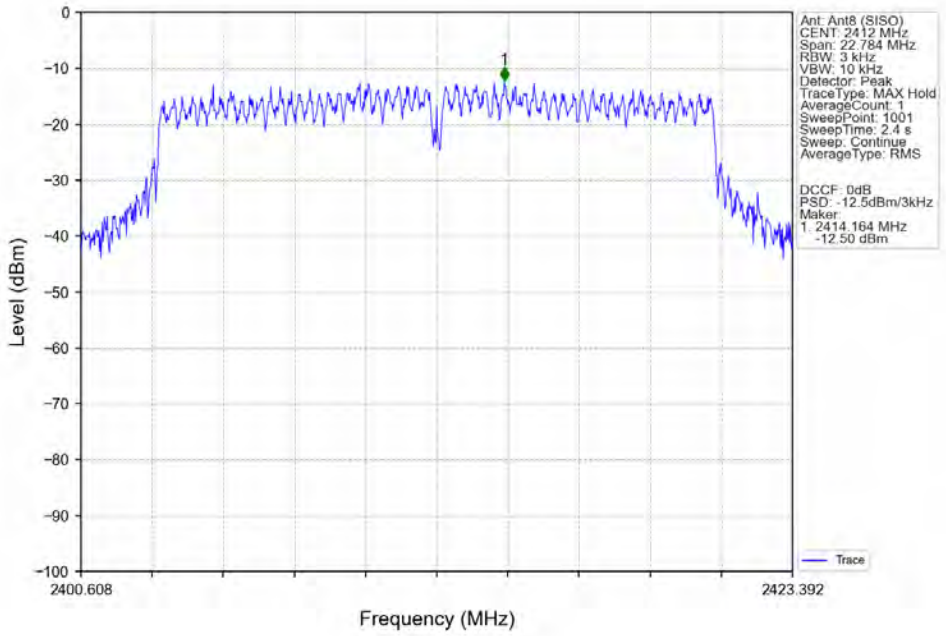
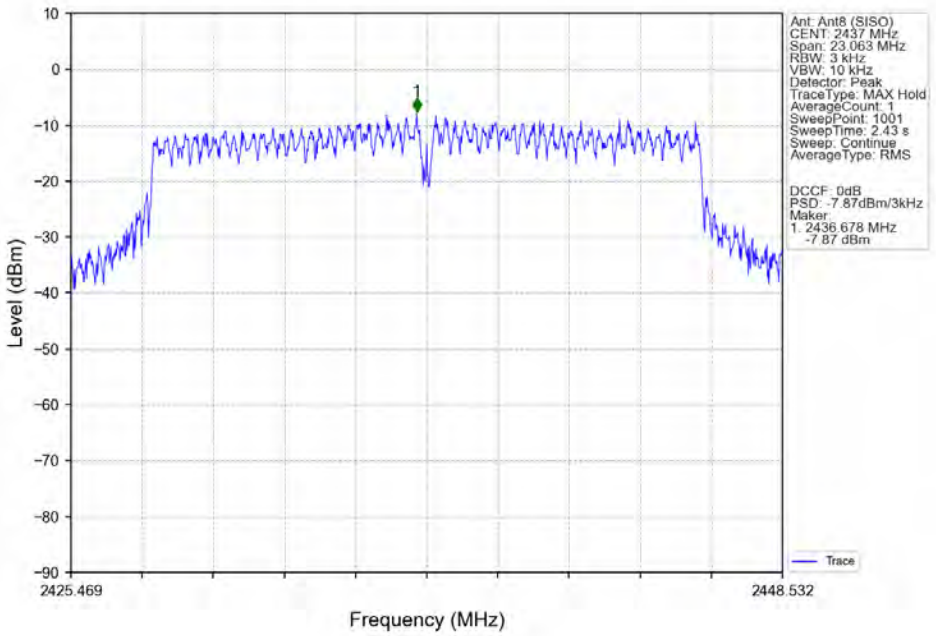
802.11ac(VHT20)_LCH_2412MHz_Ant8 (SISO)_NTNV




802.11ac(VHT20)_MCH_2437MHz_Ant8 (SISO)_NTNV

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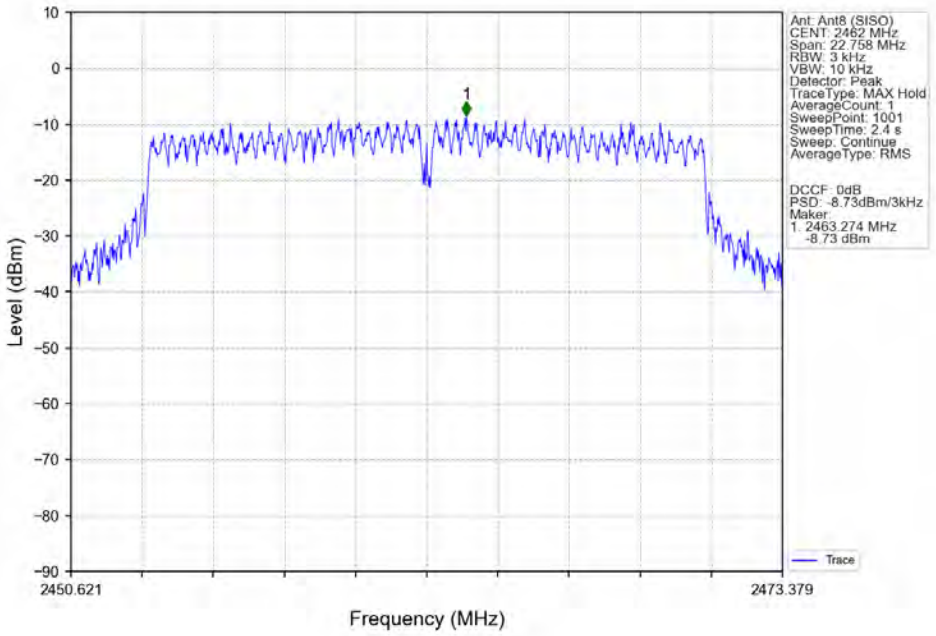
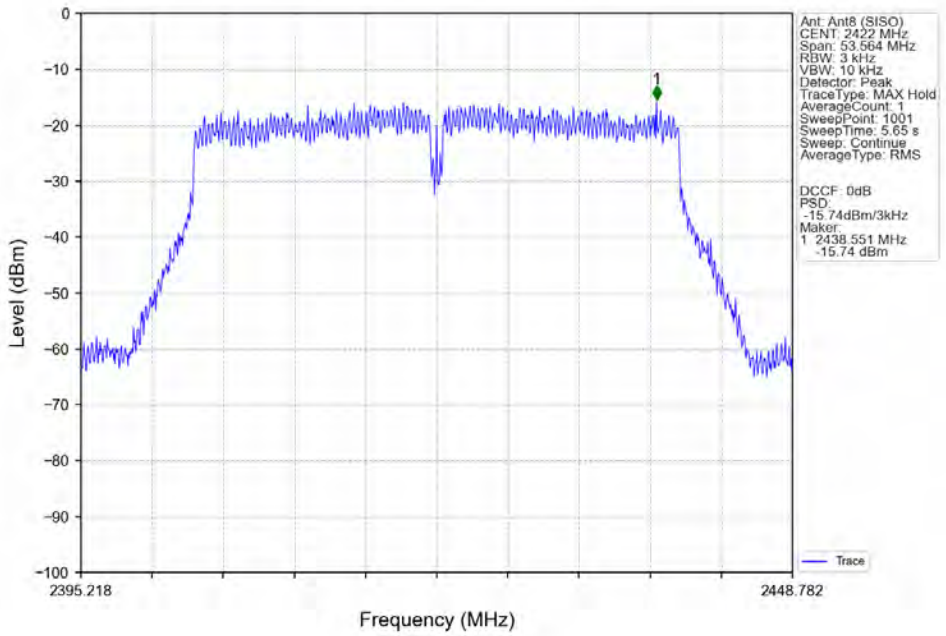
802.11ac(VHT20)_HCH_2462MHz_Ant8 (SISO)_NTNV




802.11ac(VHT40)_LCH_2422MHz_Ant8 (SISO)_NTNV

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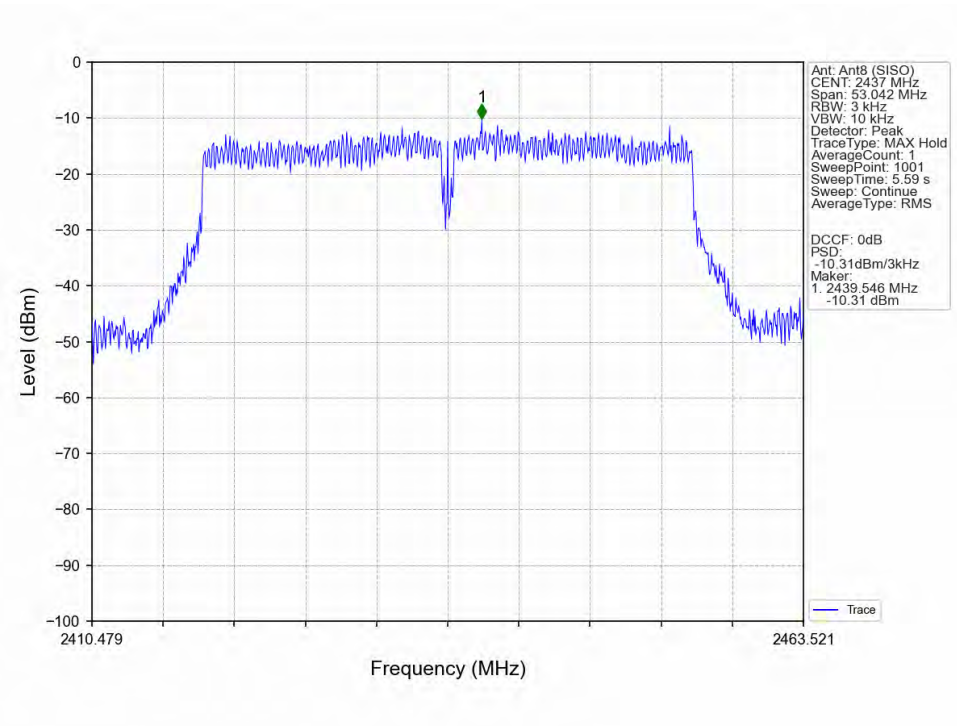
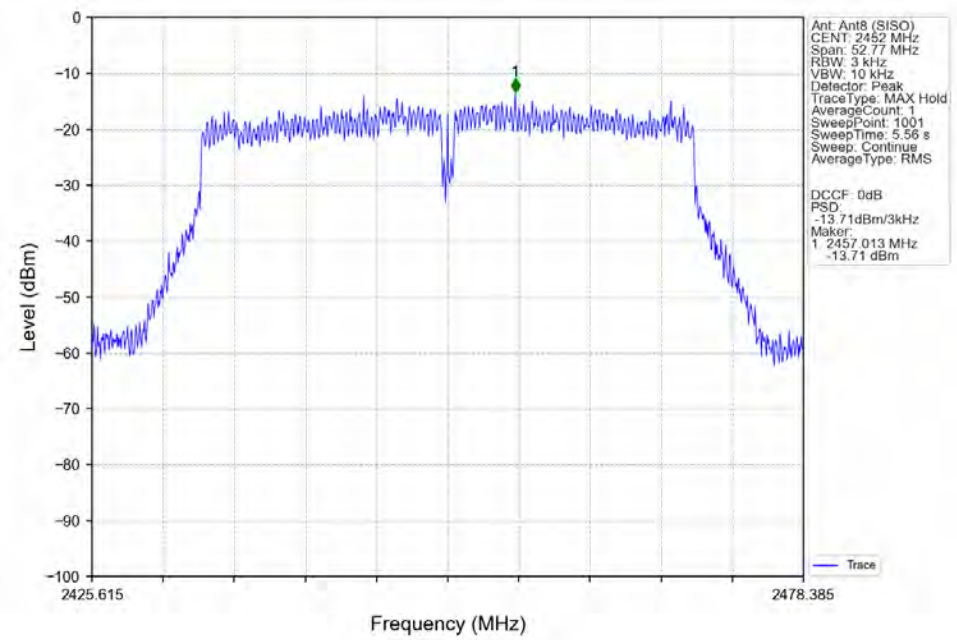
802.11ac(VHT40)_MCH_2437MHz_Ant8 (SISO)_NTNV




802.11ac(VHT40)_HCH_2452MHz_Ant8 (SISO)_NTNV

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# 5. Unwanted Emissions In Non-restricted Frequency Bands

## 5.1 Test Result

### 5.1.1 Ref

| Mode | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) |
|---|---|---|---|---|
| 802.11b | SISO | 2412 | 8 | 9.76 |
| | | 2437 | 8 | 11.12 |
| | | 2462 | 8 | 10.62 |
| 802.11g | SISO | 2412 | 8 | 6.74 |
| | | 2437 | 8 | 9.93 |
| | | 2462 | 8 | 6.23 |
| 802.11n (HT20) | SISO | 2412 | 8 | 5.69 |
| | | 2437 | 8 | 9.69 |
| | | 2462 | 8 | 7.66 |
| 802.11n (HT40) | SISO | 2422 | 8 | 1.15 |
| | | 2437 | 8 | 6.29 |
| | | 2452 | 8 | 1.22 |
| 802.11ac (VHT20) | SISO | 2412 | 8 | 5.41 |
| | | 2437 | 8 | 9.98 |
| | | 2462 | 8 | 9.66 |
| 802.11ac (VHT40) | SISO | 2422 | 8 | 1.14 |
| | | 2437 | 8 | 5.07 |
| | | 2452 | 8 | 2.26 |
| Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level. | | | | |

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5.1.2 CSE

| Mode | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|---|
| 802.11b | SISO | 2412 | 8 | 11.12 | -8.88 | Pass |
| | | 2437 | 8 | 11.12 | -8.88 | Pass |
| | | 2462 | 8 | 11.12 | -8.88 | Pass |
| 802.11g | SISO | 2412 | 8 | 9.93 | -10.07 | Pass |
| | | 2437 | 8 | 9.93 | -10.07 | Pass |
| | | 2462 | 8 | 9.93 | -10.07 | Pass |
| 802.11n (HT20) | SISO | 2412 | 8 | 9.69 | -10.31 | Pass |
| | | 2437 | 8 | 9.69 | -10.31 | Pass |
| | | 2462 | 8 | 9.69 | -10.31 | Pass |
| 802.11n (HT40) | SISO | 2422 | 8 | 6.29 | -13.71 | Pass |
| | | 2437 | 8 | 6.29 | -13.71 | Pass |
| | | 2452 | 8 | 6.29 | -13.71 | Pass |
| 802.11ac (VHT20) | SISO | 2412 | 8 | 9.98 | -10.02 | Pass |
| | | 2437 | 8 | 9.98 | -10.02 | Pass |
| | | 2462 | 8 | 9.98 | -10.02 | Pass |
| 802.11ac (VHT40) | SISO | 2422 | 8 | 5.07 | -14.93 | Pass |
| | | 2437 | 8 | 5.07 | -14.93 | Pass |
| | | 2452 | 8 | 5.07 | -14.93 | Pass |
| Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level. | | | | | | |

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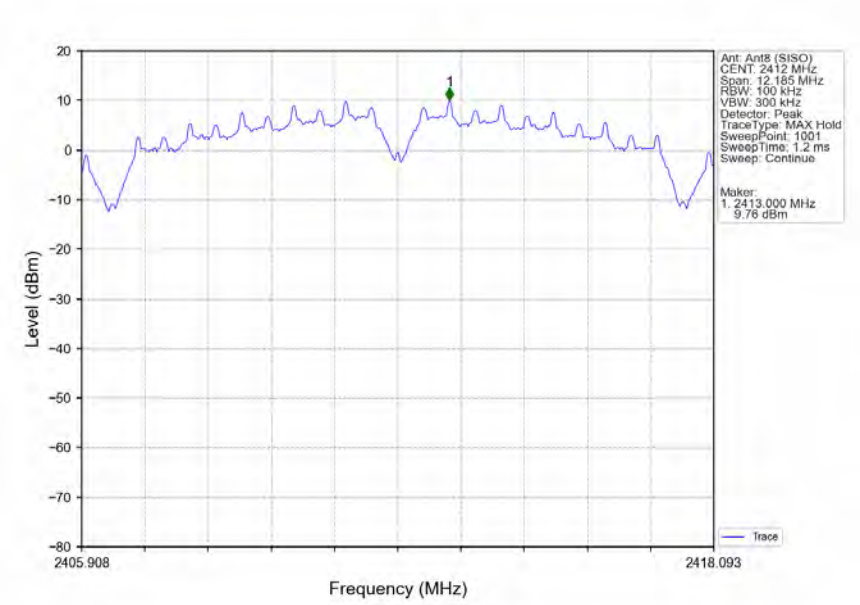
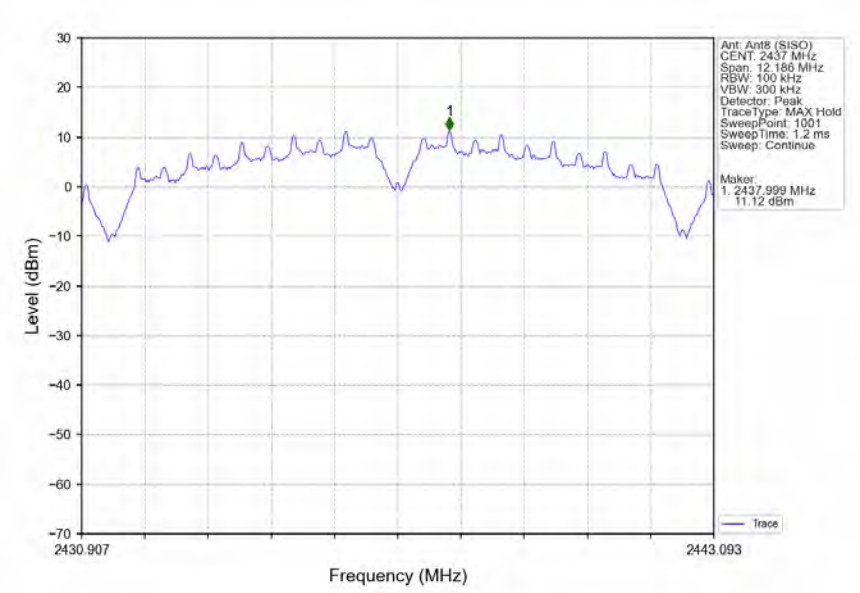
## 5.2 Test Graph

### 5.2.1 Ref

802.11b_LCH_2412MHz_Ant8 (SISO)_NTNV




802.11b_MCH_2437MHz_Ant8 (SISO)_NTNV

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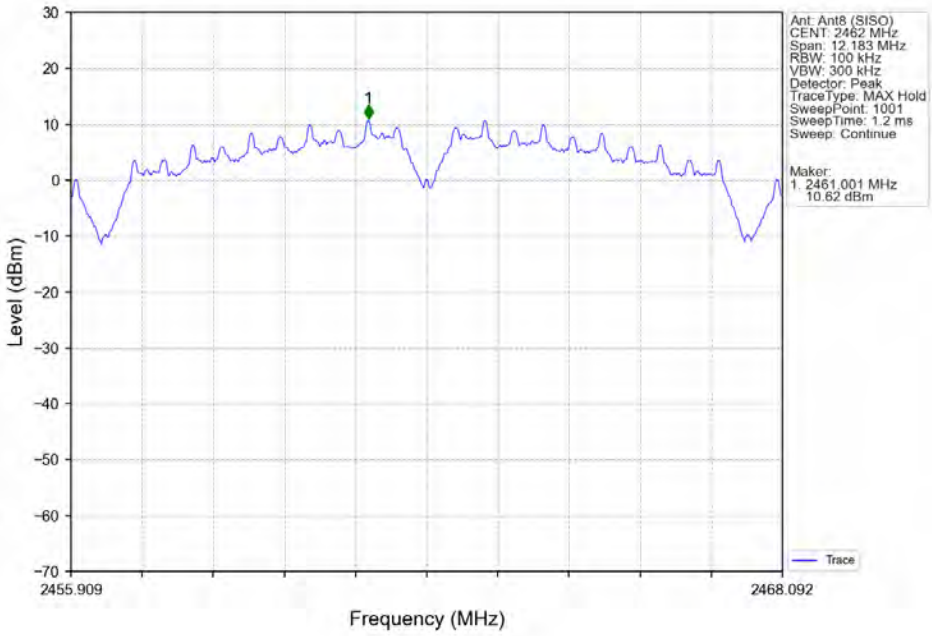
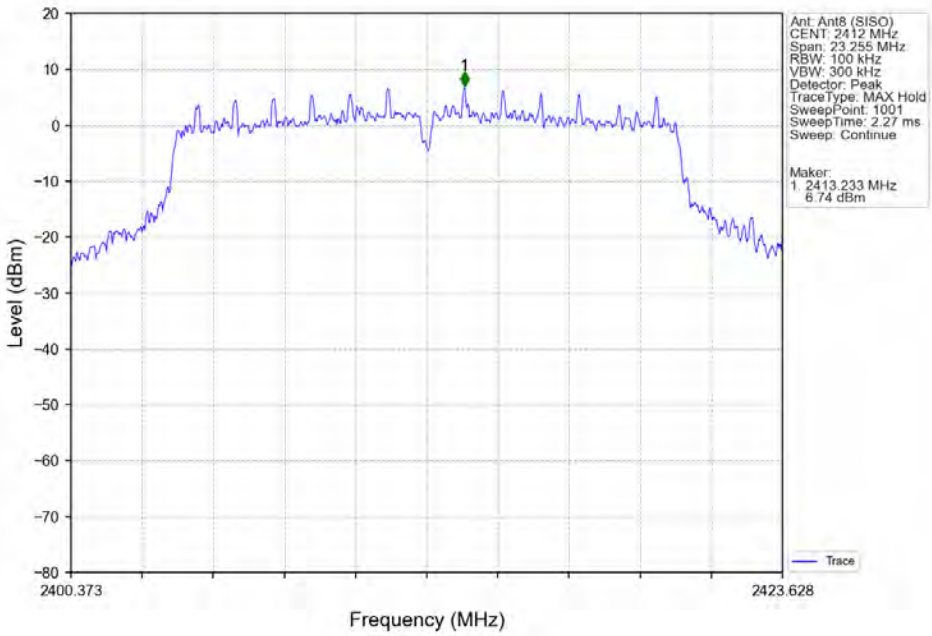
802.11b_HCH_2462MHz_Ant8 (SISO)_NTNV




802.11g_LCH_2412MHz_Ant8 (SISO)_NTNV

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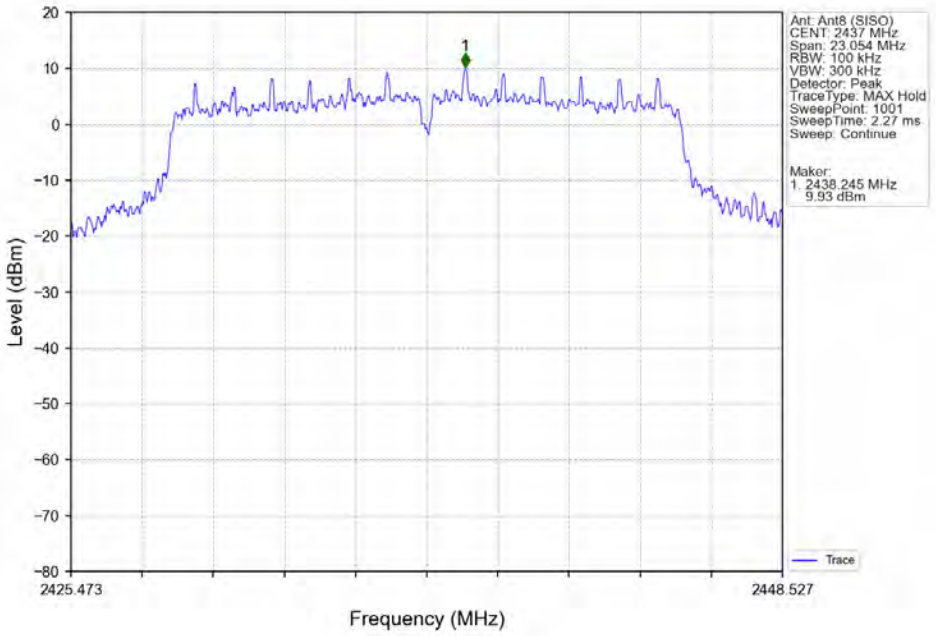
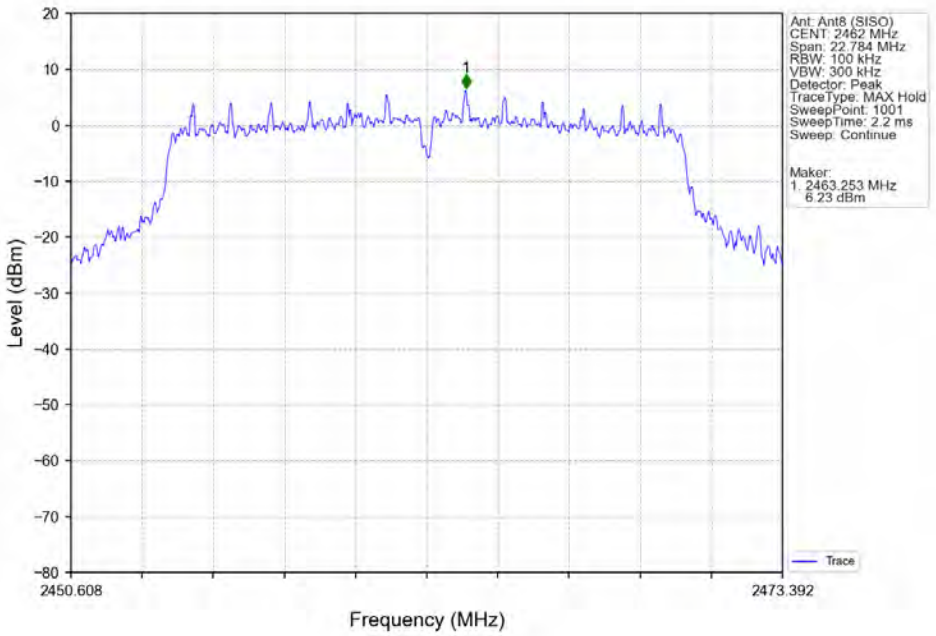
802.11g_MCH_2437MHz_Ant8 (SISO)_NTNV




802.11g_HCH_2462MHz_Ant8 (SISO)_NTNV

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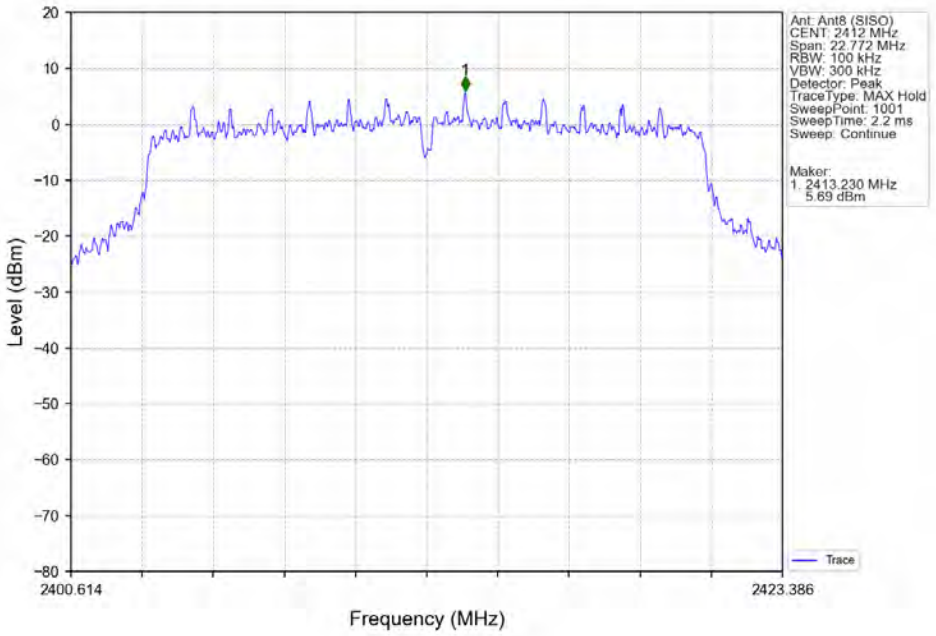
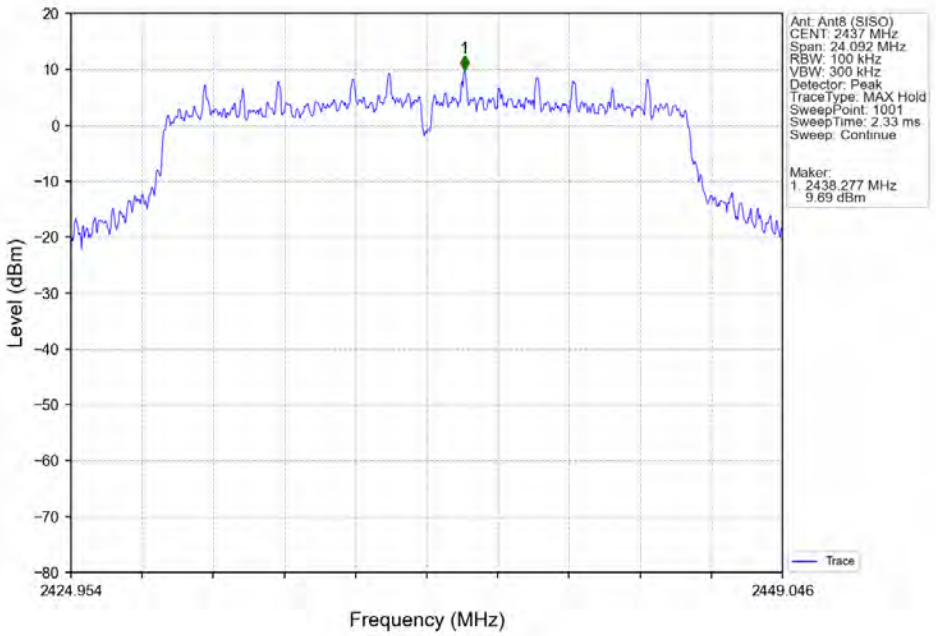
802.11n(HT20)_LCH_2412MHz_Ant8 (SISO)_NTNV




802.11n(HT20)_MCH_2437MHz_Ant8 (SISO)_NTNV

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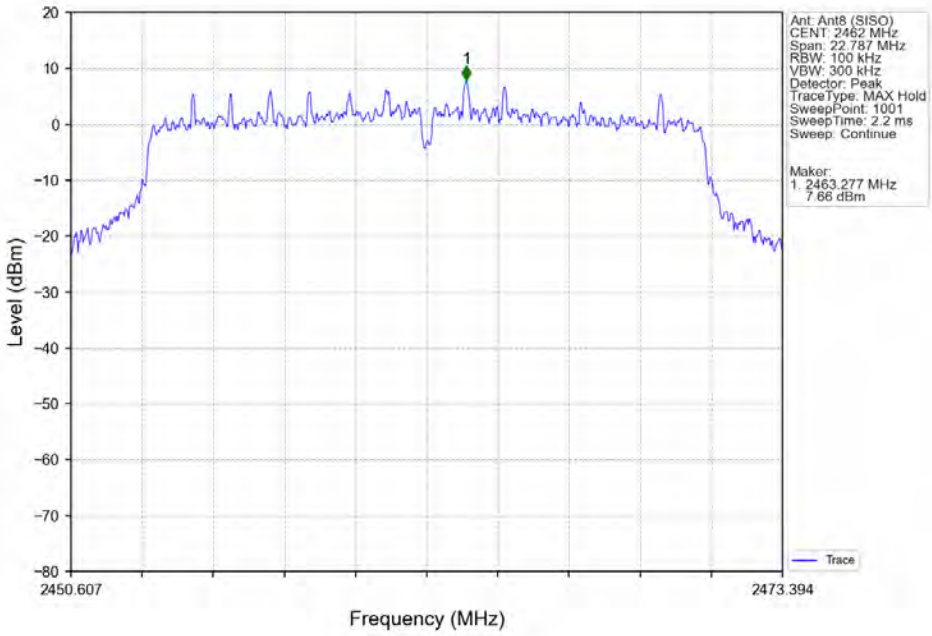
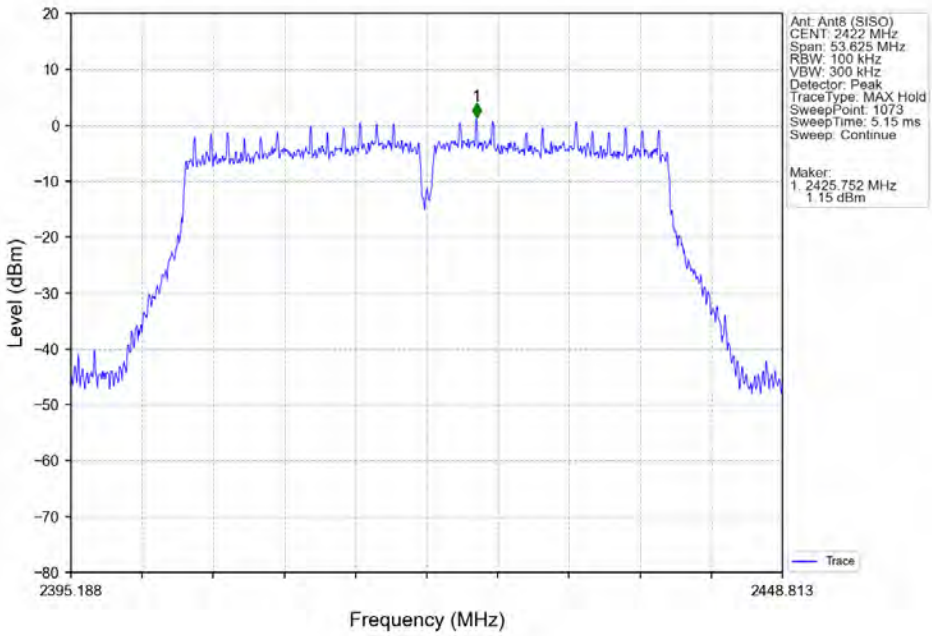
802.11n(HT20)_HCH_2462MHz_Ant8 (SISO)_NTNV




802.11n(HT40)_LCH_2422MHz_Ant8 (SISO)_NTNV

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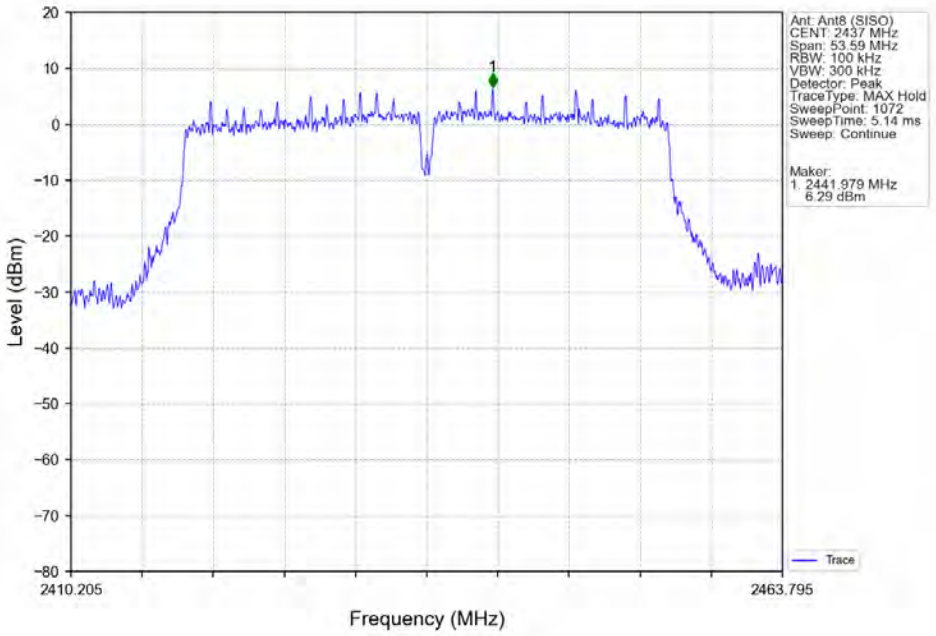
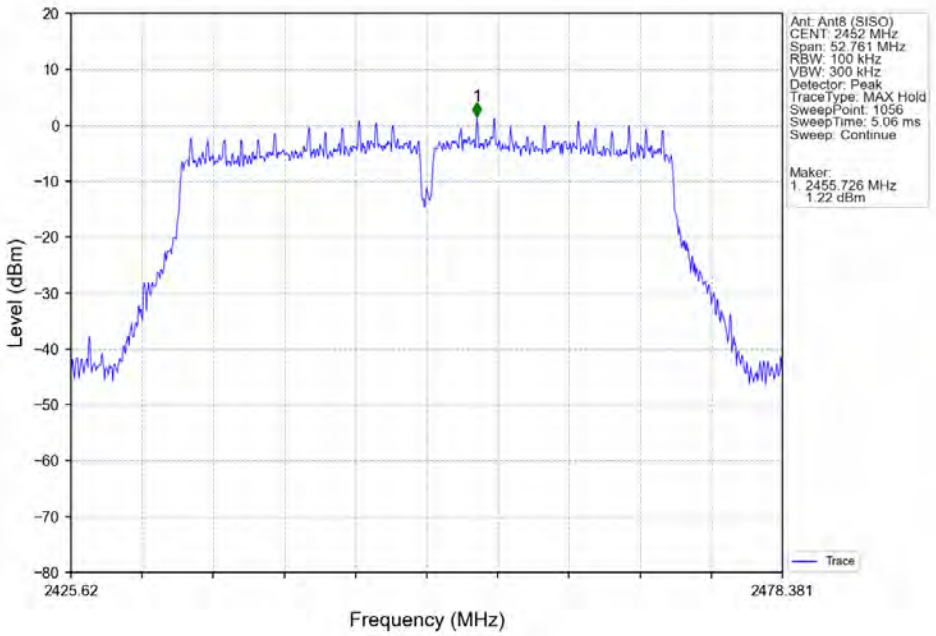
802.11n(HT40)_MCH_2437MHz_Ant8 (SISO)_NTNV




802.11n(HT40)_HCH_2452MHz_Ant8 (SISO)_NTNV

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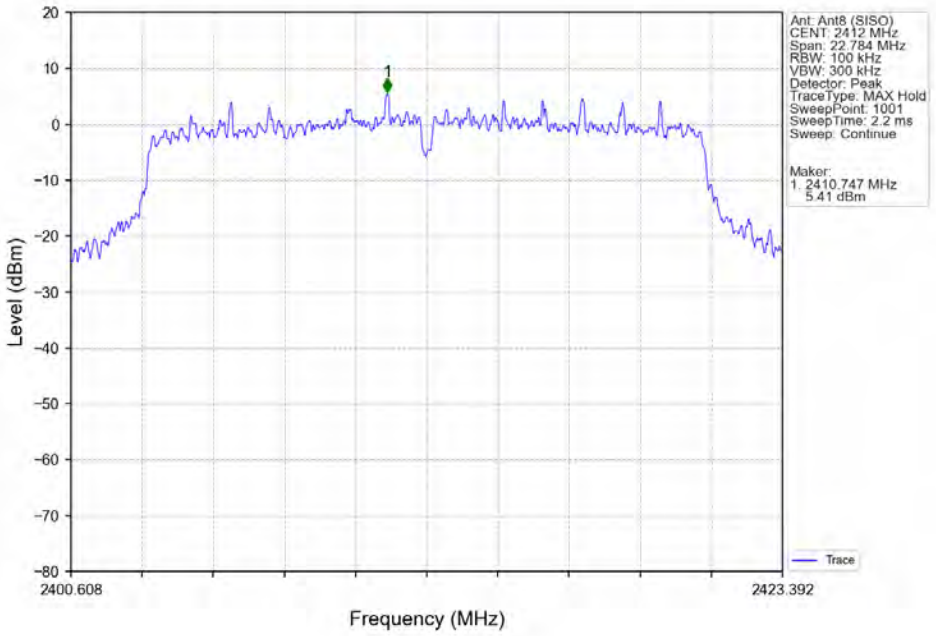
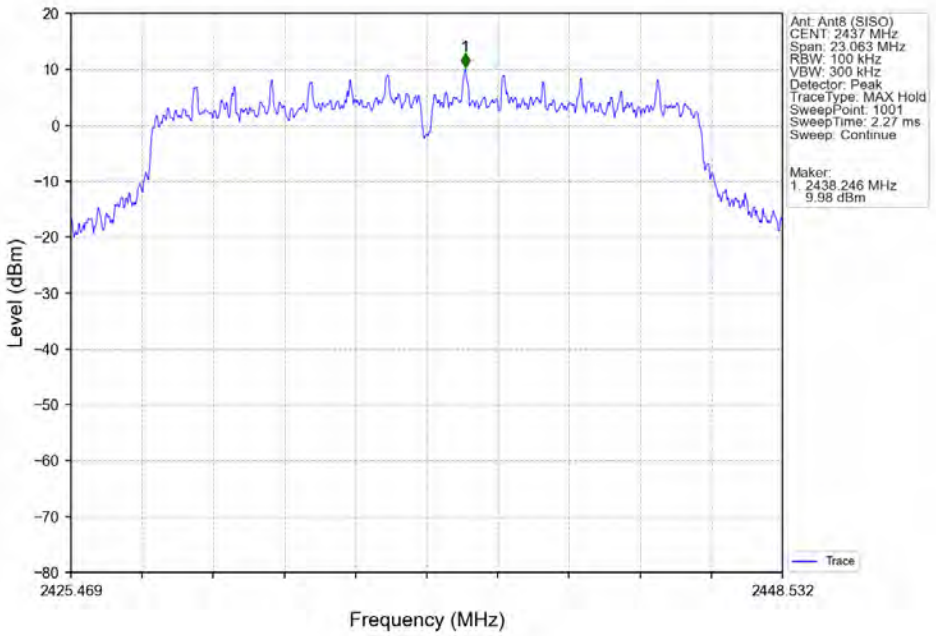
802.11ac(VHT20)_LCH_2412MHz_Ant8 (SISO)_NTNV




802.11ac(VHT20)_MCH_2437MHz_Ant8 (SISO)_NTNV

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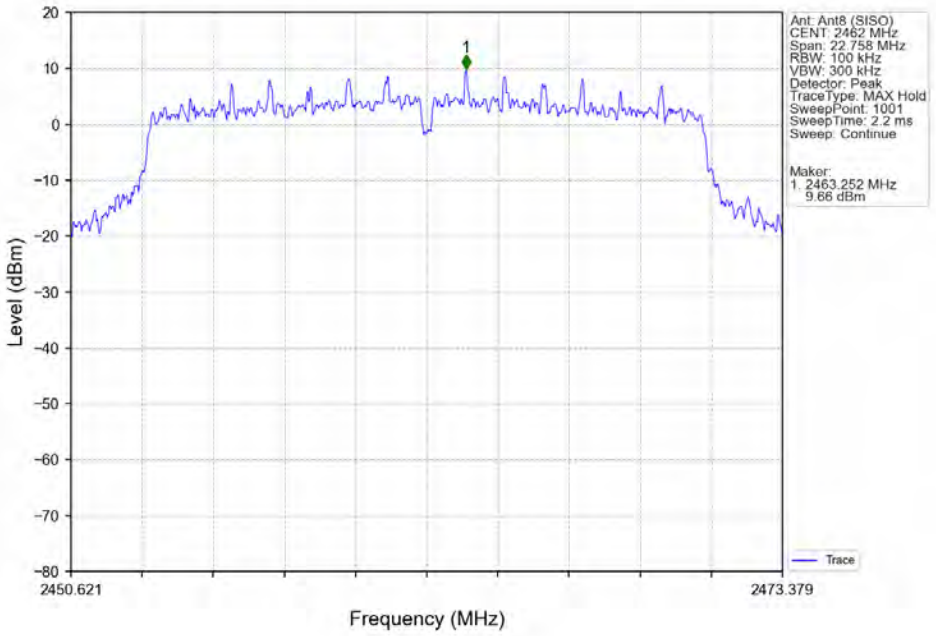
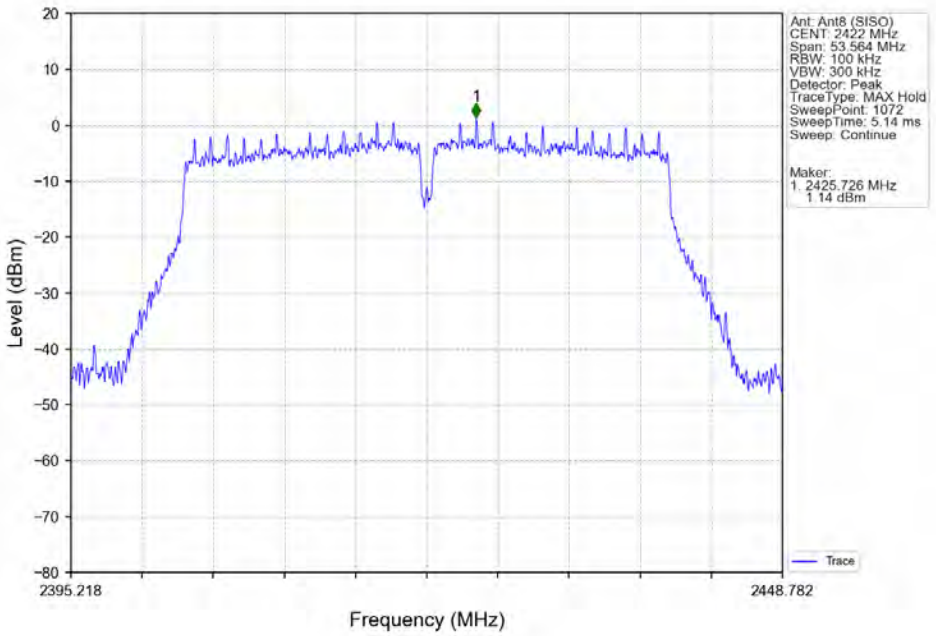
802.11ac(VHT20)_HCH_2462MHz_Ant8 (SISO)_NTNV




802.11ac(VHT40)_LCH_2422MHz_Ant8 (SISO)_NTNV

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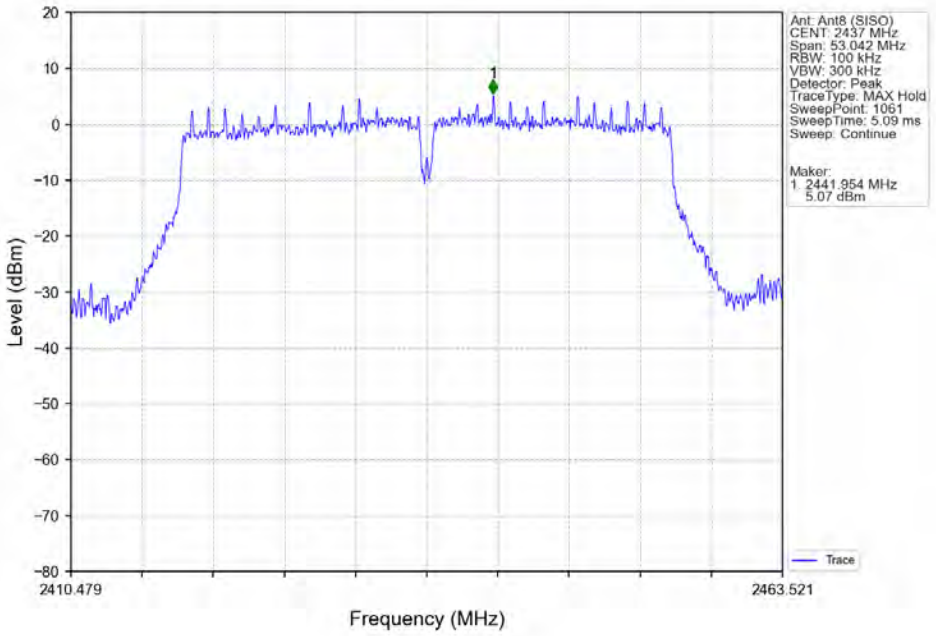
802.11ac(VHT40)_MCH_2437MHz_Ant8 (SISO)_NTNV

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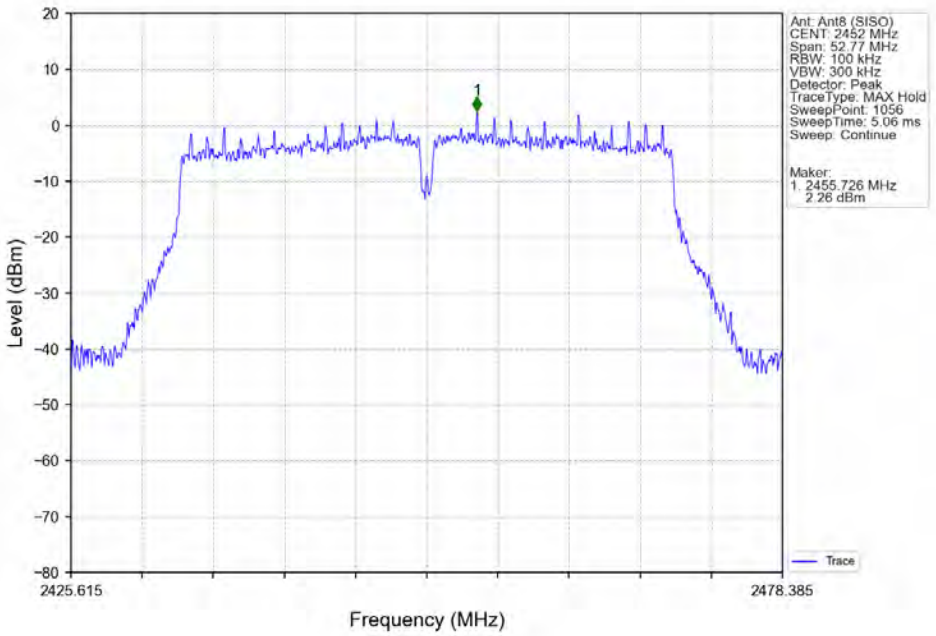


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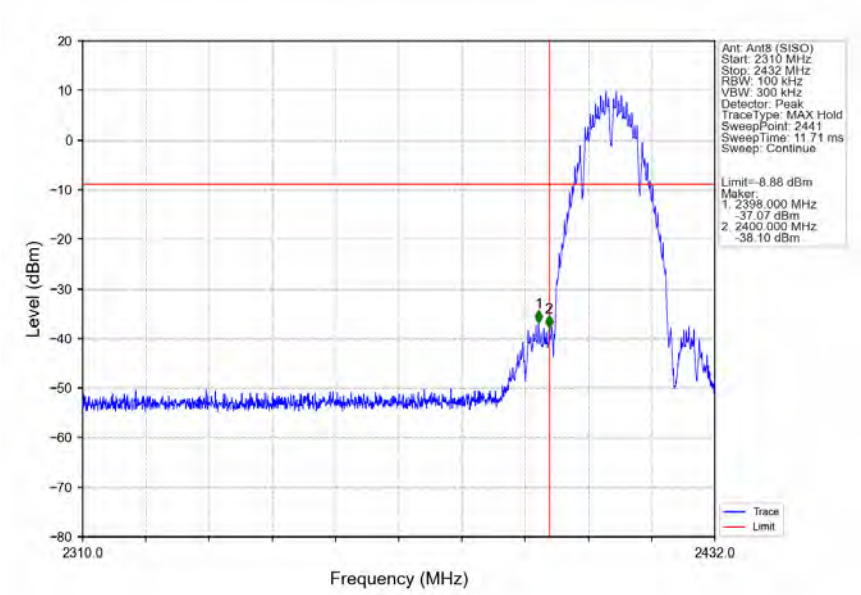
5.2.2 CSE

| 802.11b_LCH_2412MHz_Ant8 (SISO)_NTNV |
|---|
|  |



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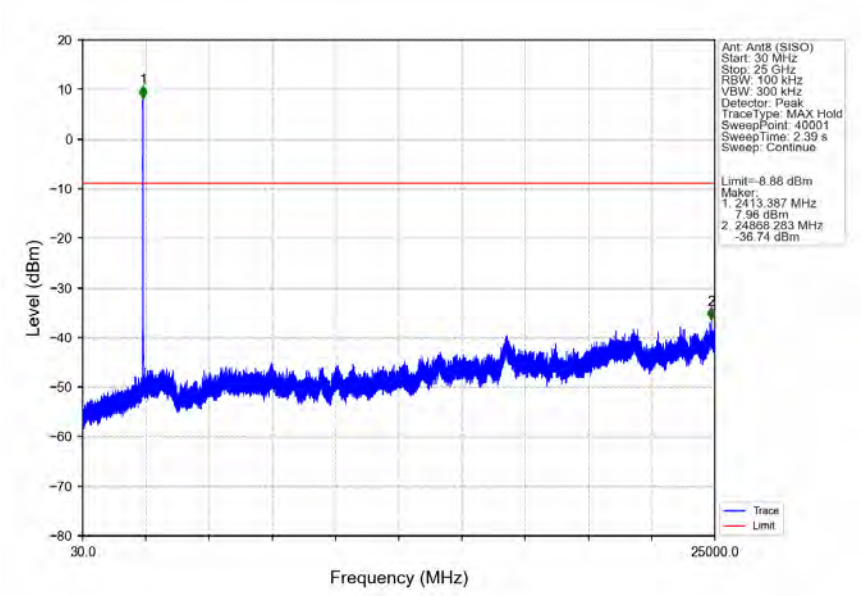
|  |



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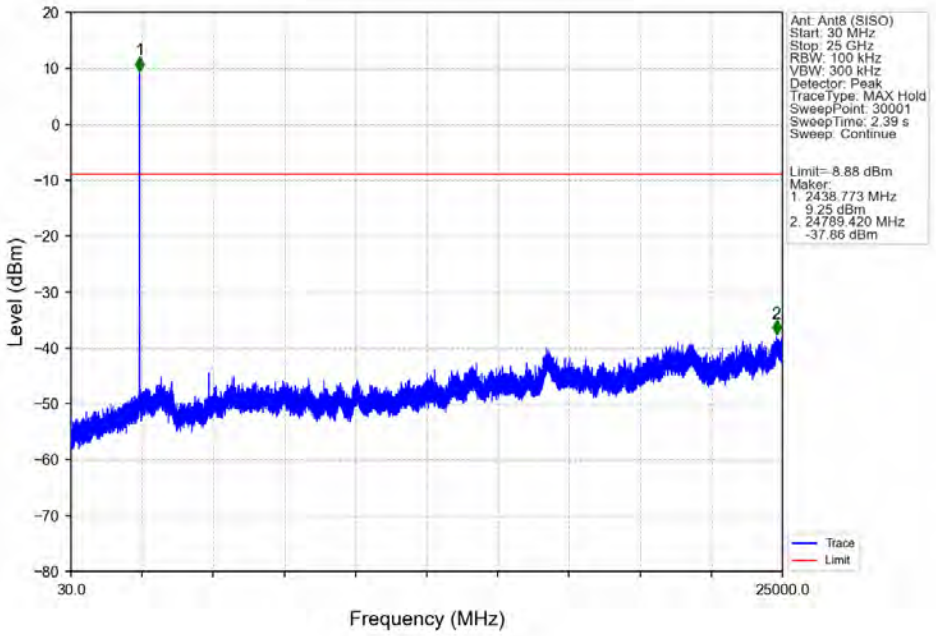
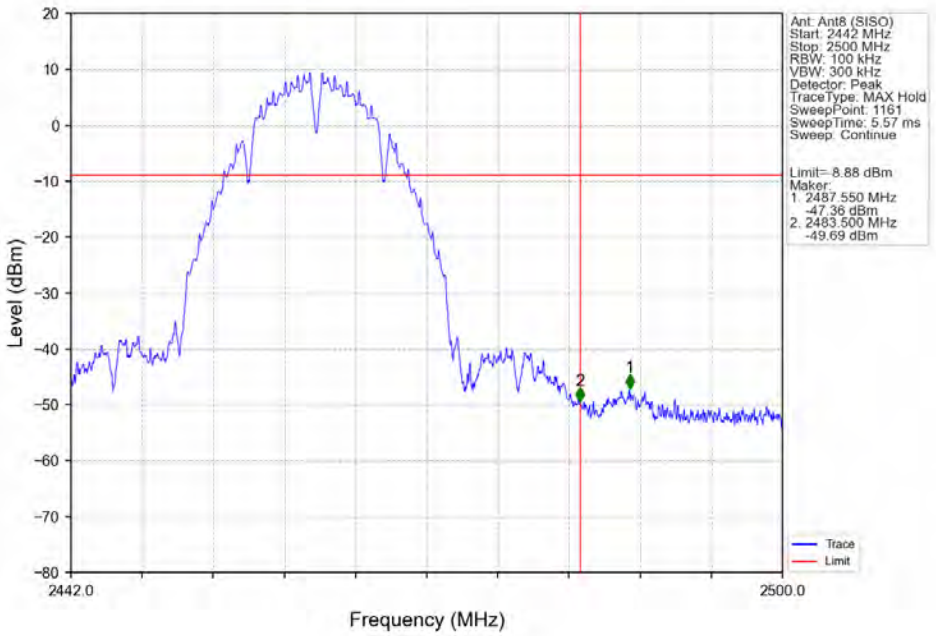
802.11b_MCH_2437MHz_Ant8 (SISO)_NTNV




802.11b_HCH_2462MHz_Ant8 (SISO)_NTNV

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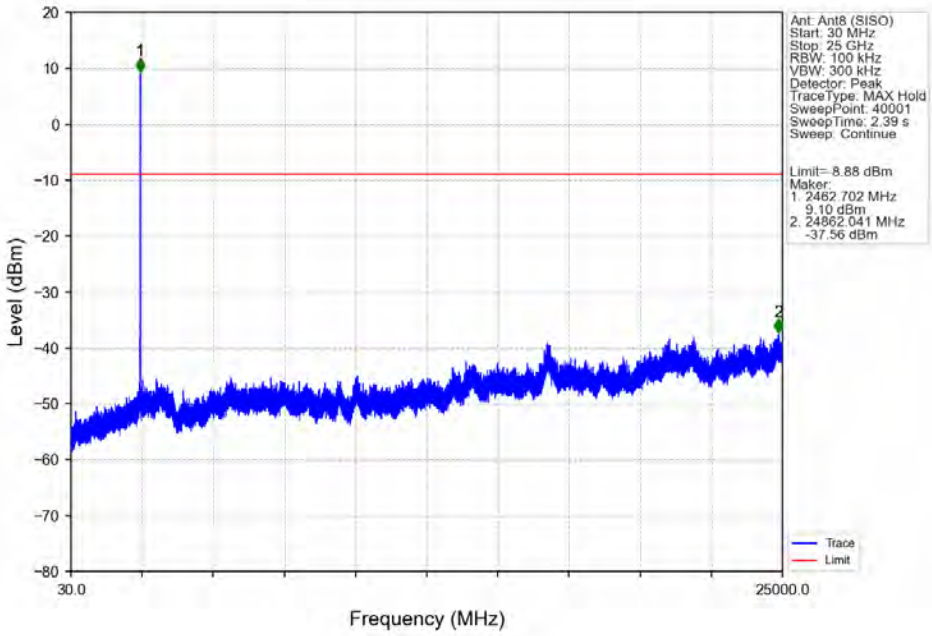
802.11b_HCH_2462MHz_Ant8 (SISO)_NTNV

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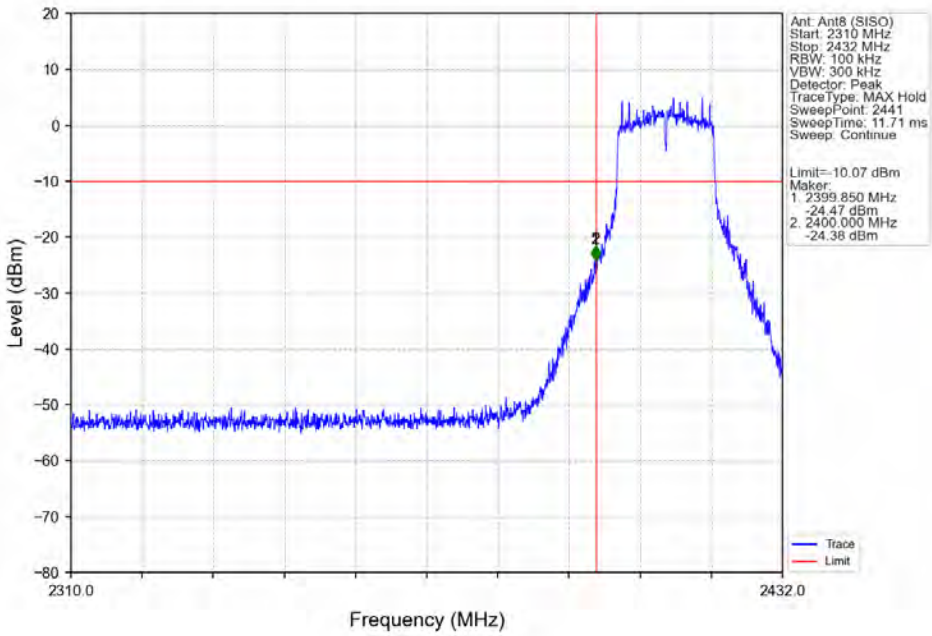


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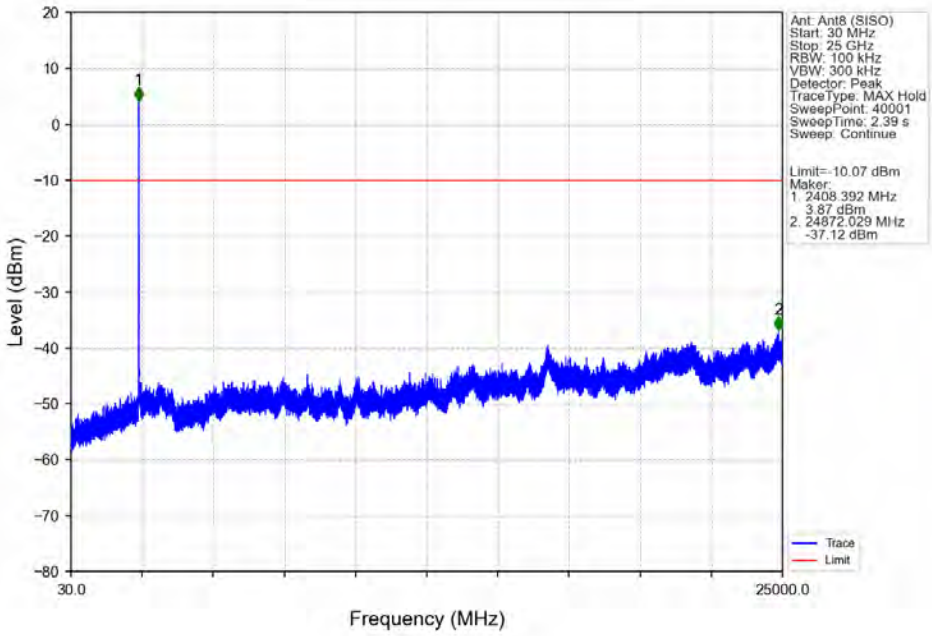
802.11g_LCH_2412MHz_Ant8 (SISO)_NTNV

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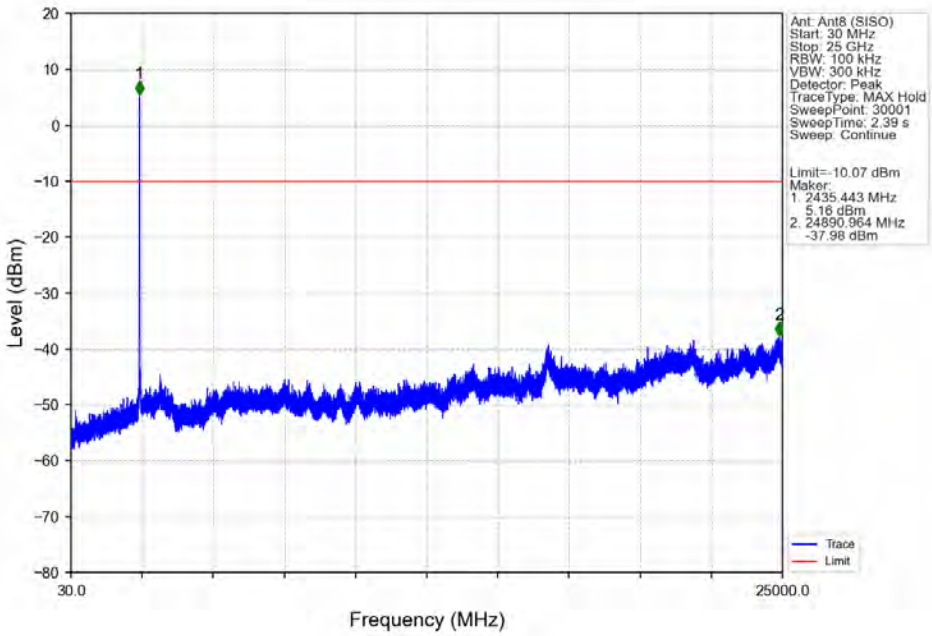


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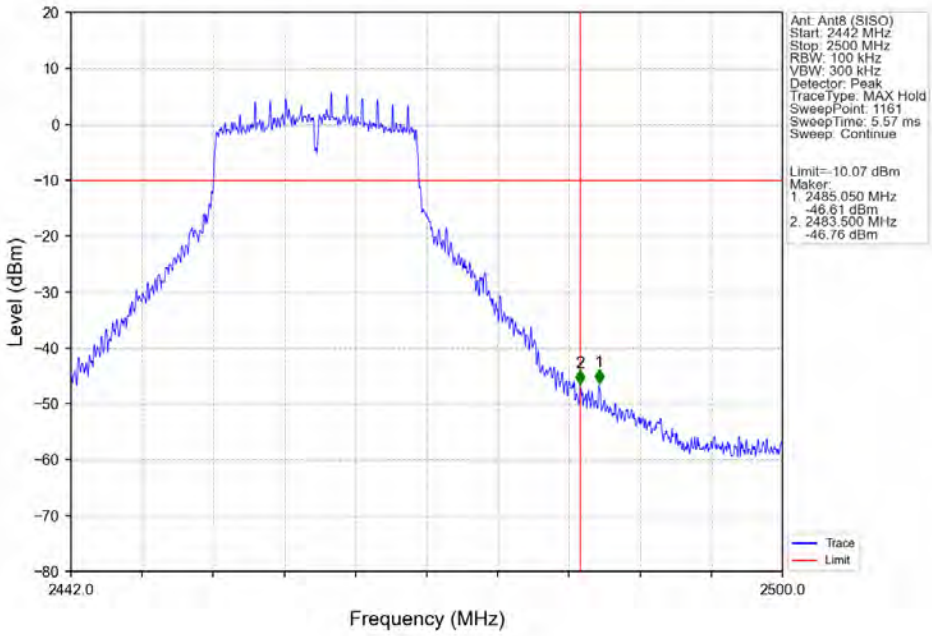
802.11g_HCH_2462MHz_Ant8 (SISO)_NTNV

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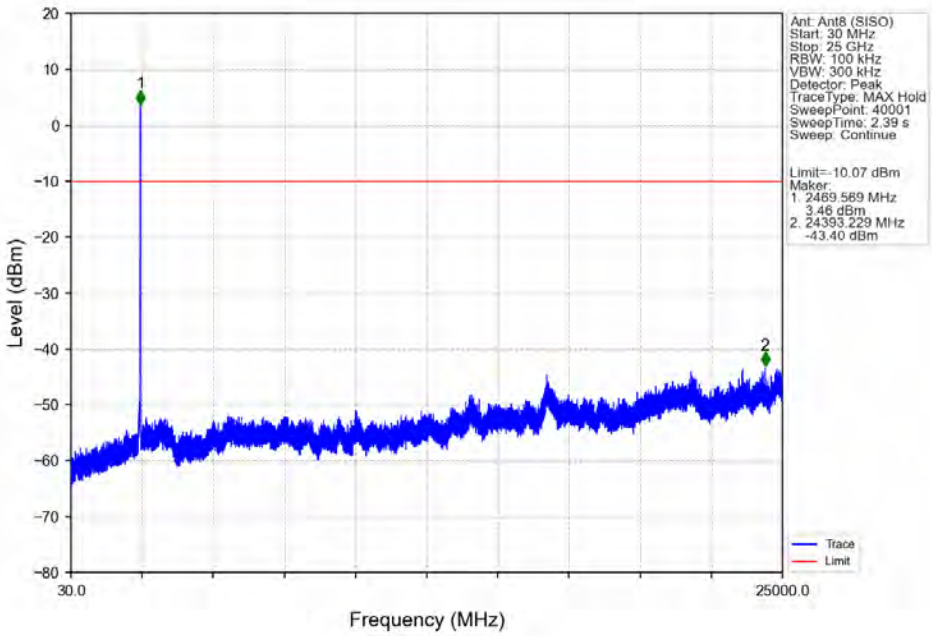


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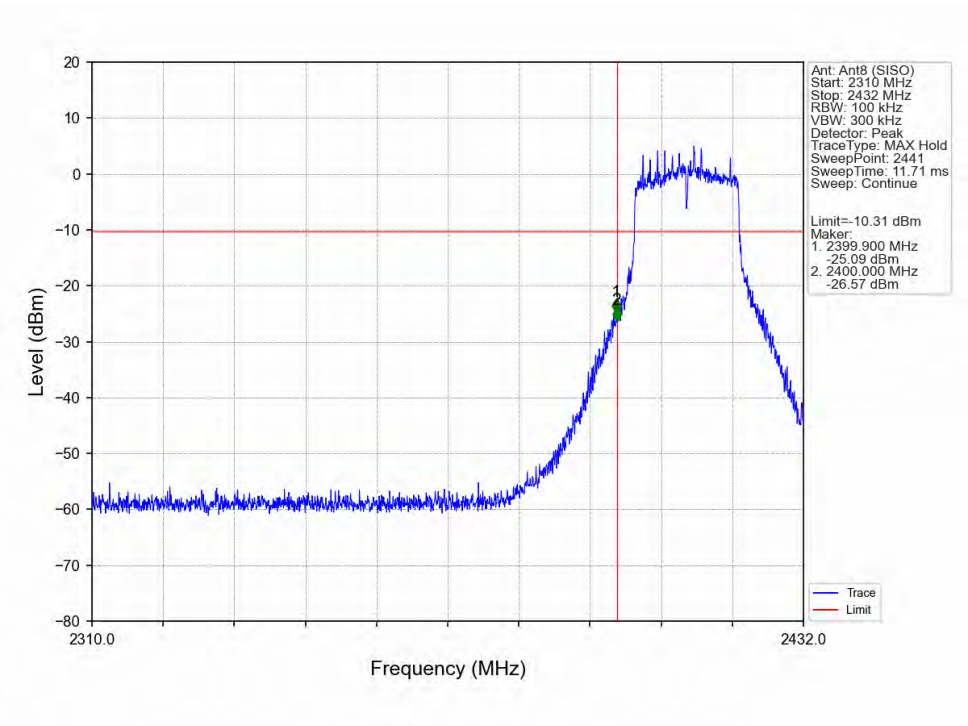
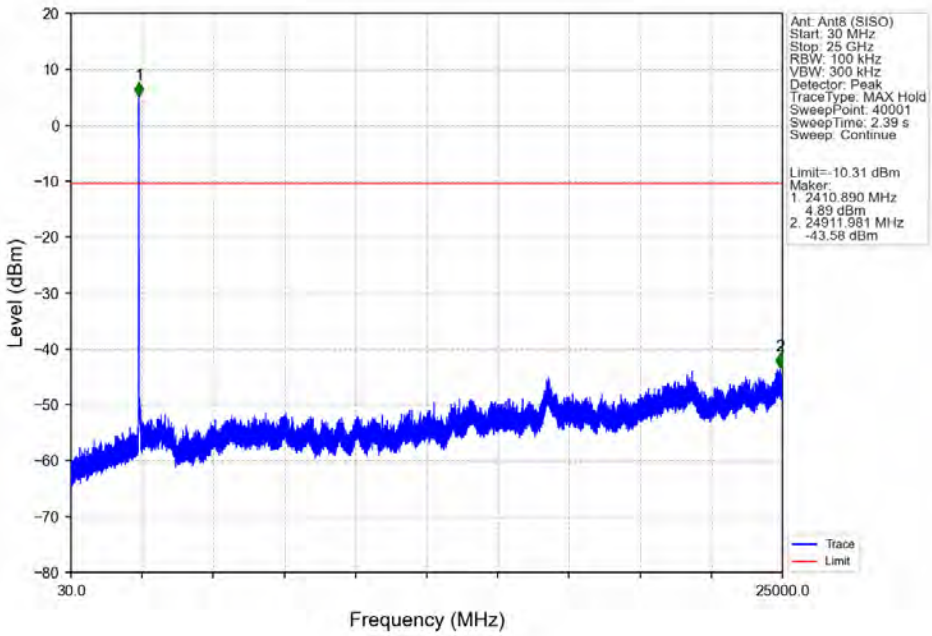
802.11n(HT20)_LCH_2412MHz_Ant8 (SISO)_NTNV




802.11n(HT20)_LCH_2412MHz_Ant8 (SISO)_NTNV

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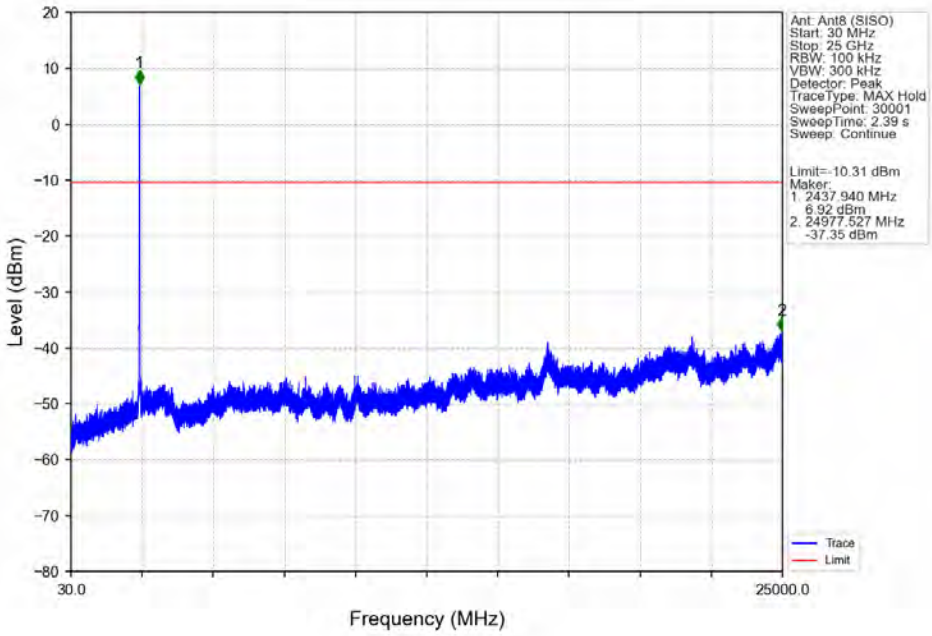
802.11n(HT20)_MCH_2437MHz_Ant8 (SISO)_NTNV

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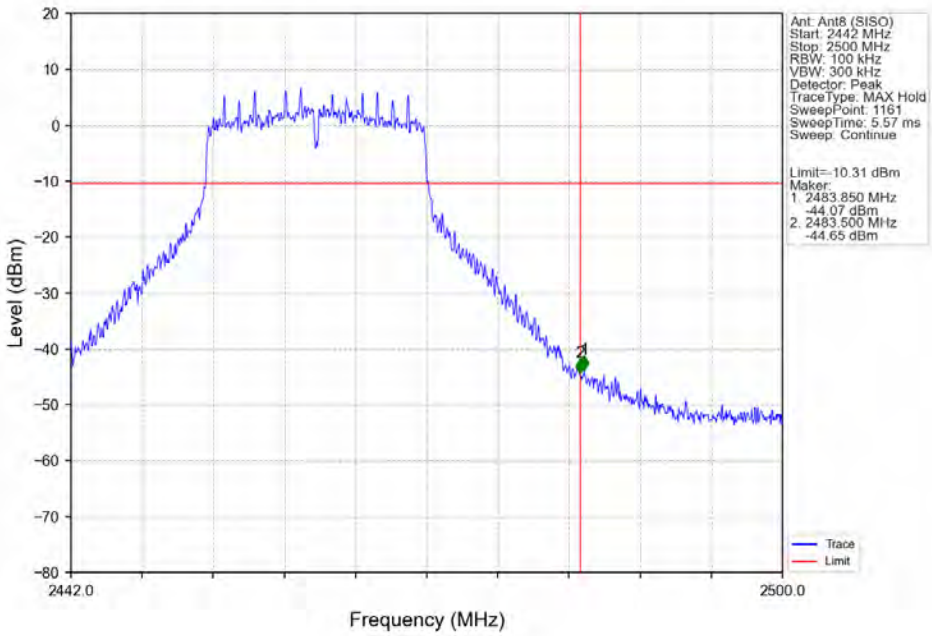


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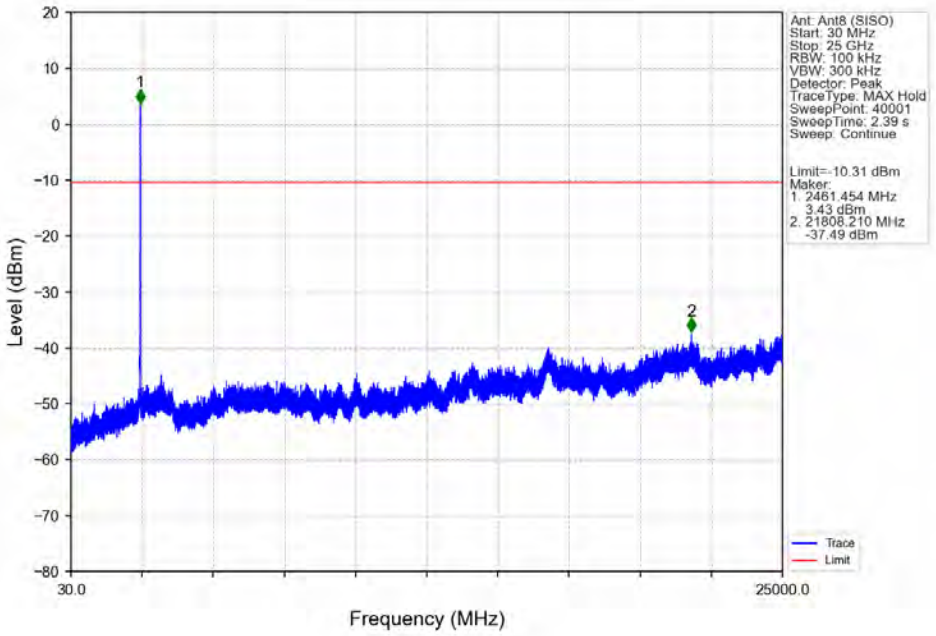
802.11n(HT20)_HCH_2462MHz_Ant8 (SISO)_NTNV

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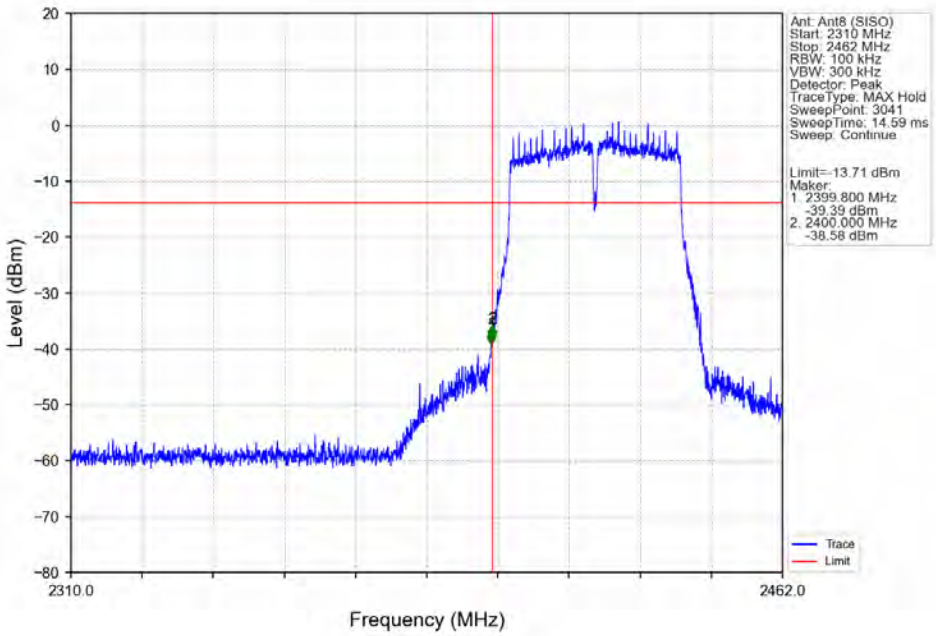


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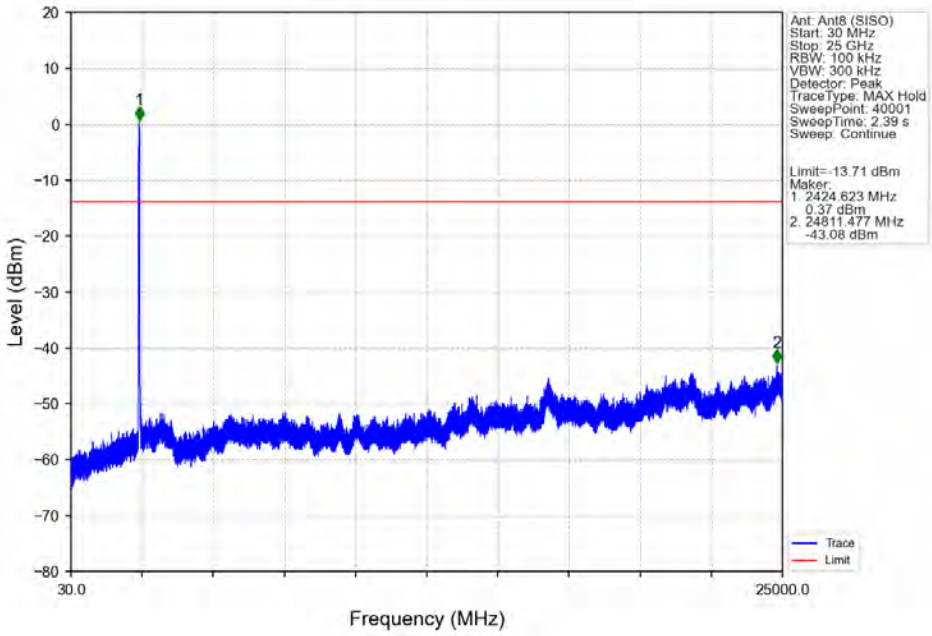
802.11n(HT40)_LCH_2422MHz_Ant8 (SISO)_NTNV

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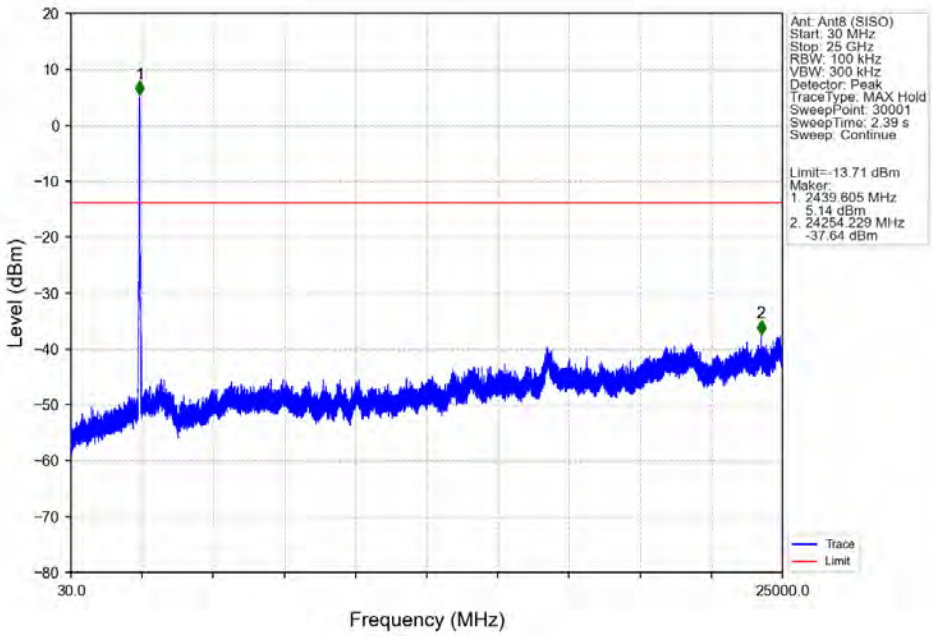


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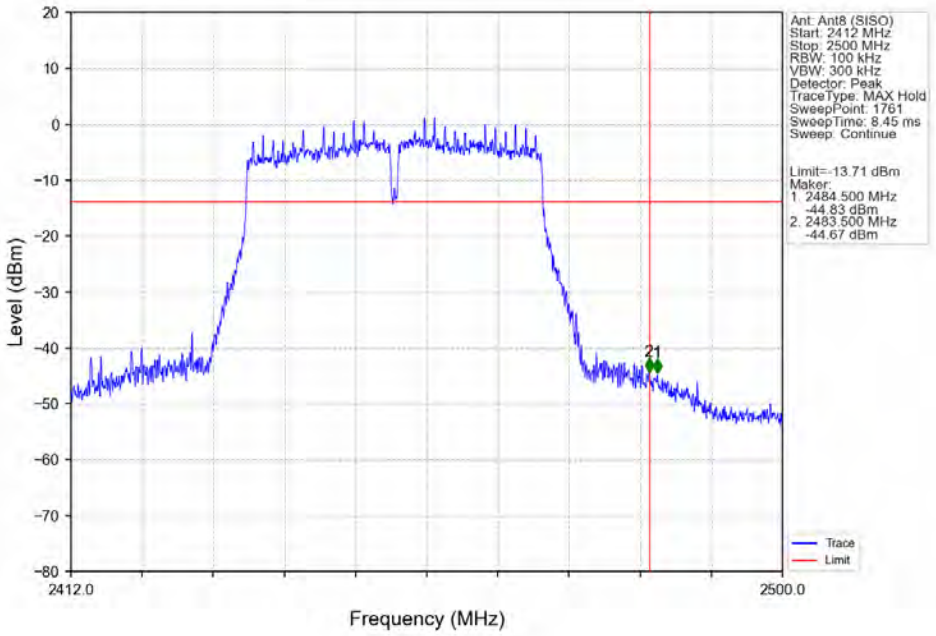
802.11n(HT40)_HCH_2452MHz_Ant8 (SISO)_NTNV

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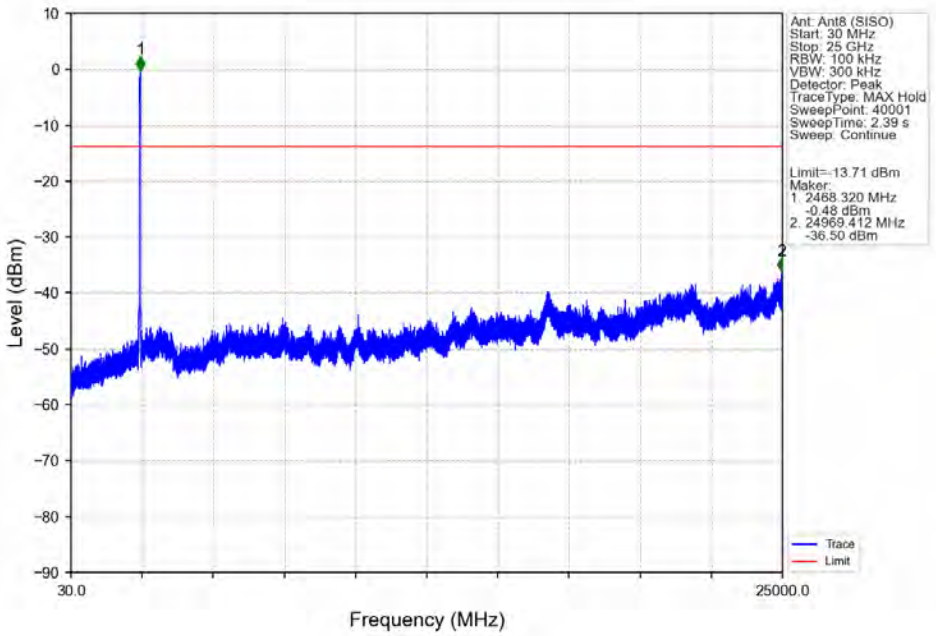


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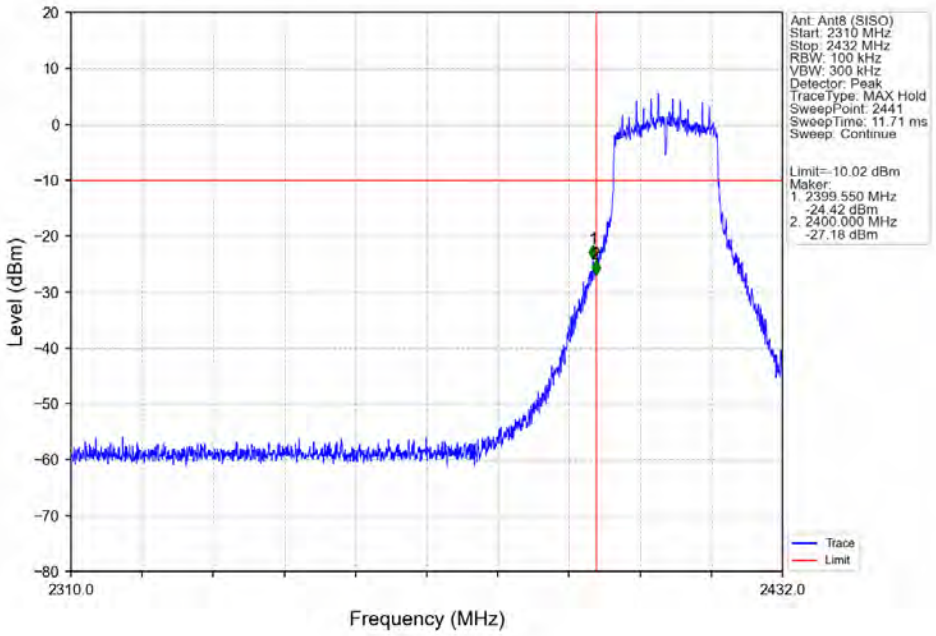
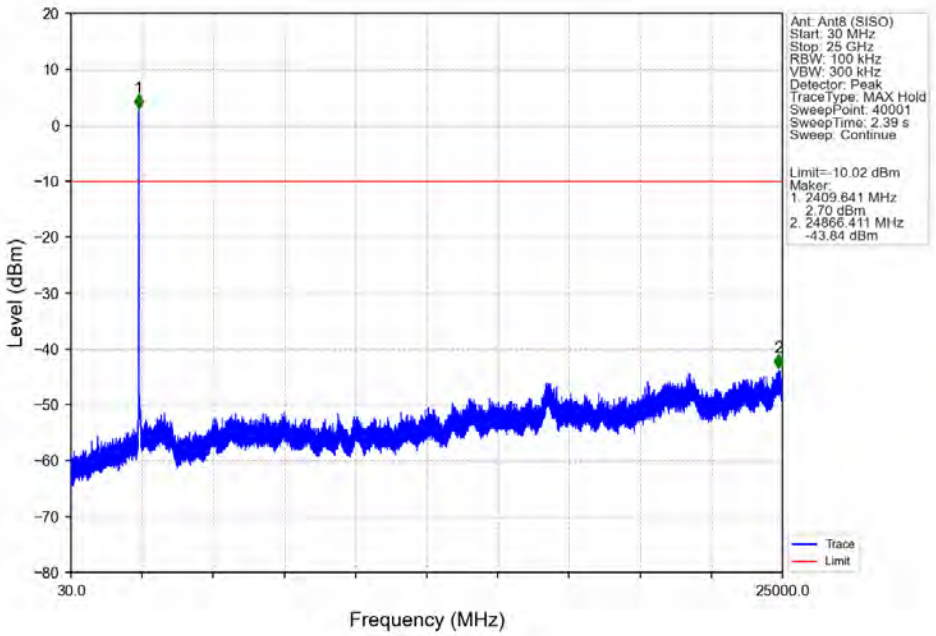
802.11ac(VHT20)_LCH_2412MHz_Ant8 (SISO)_NTNV




802.11ac(VHT20)_LCH_2412MHz_Ant8 (SISO)_NTNV

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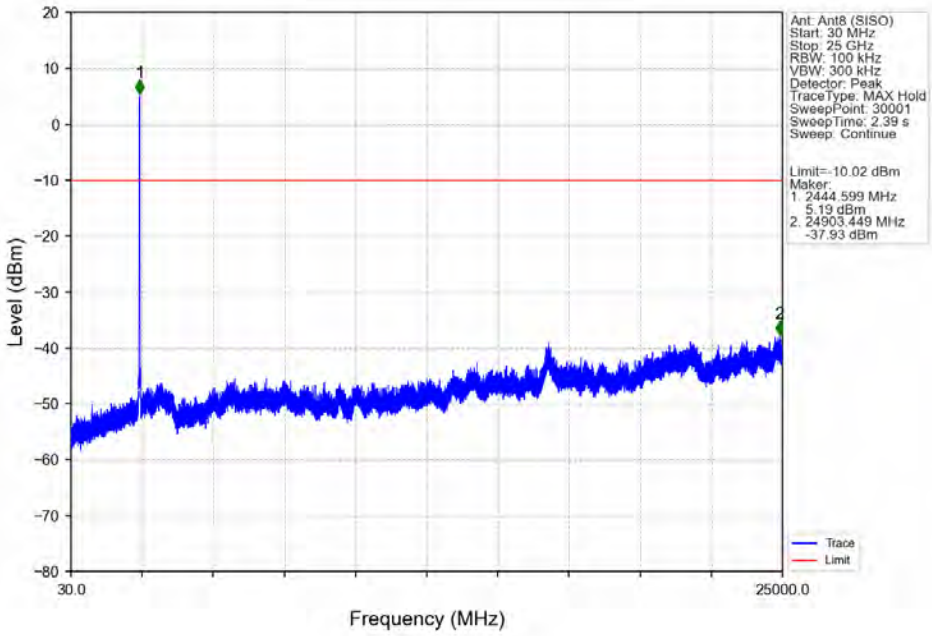
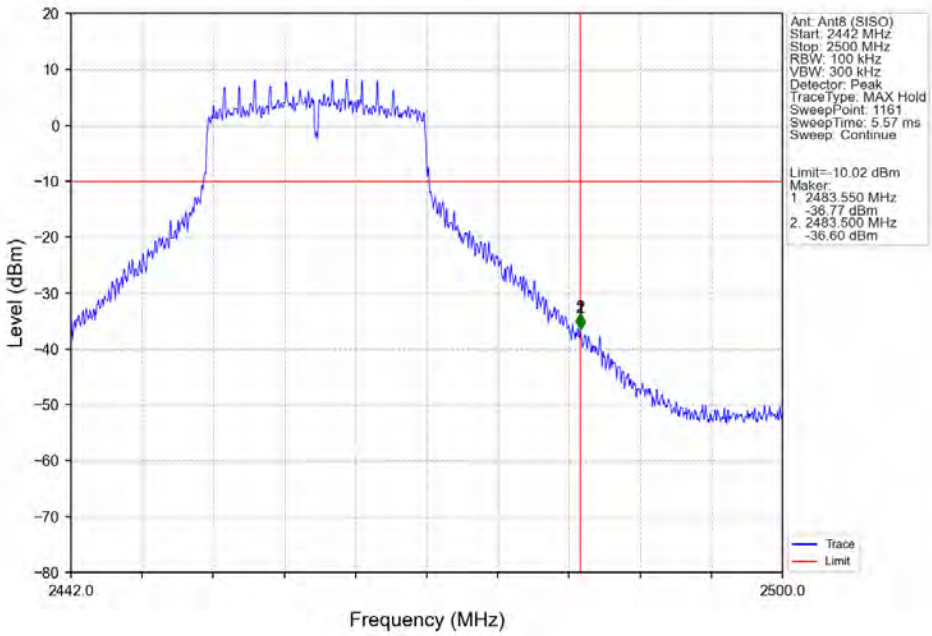
802.11ac(VHT20)_MCH_2437MHz_Ant8 (SISO)_NTNV




802.11ac(VHT20)_HCH_2462MHz_Ant8 (SISO)_NTNV

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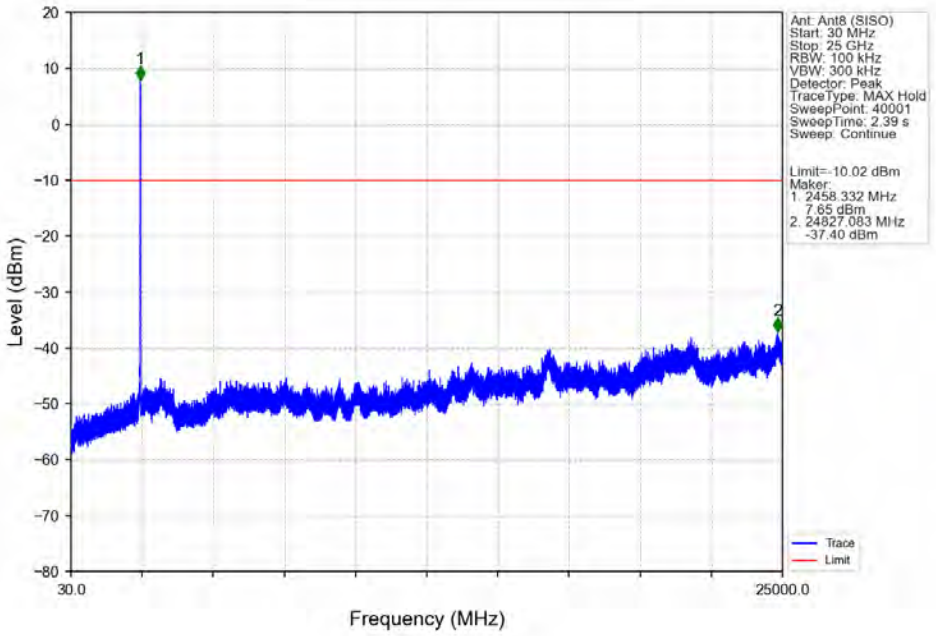
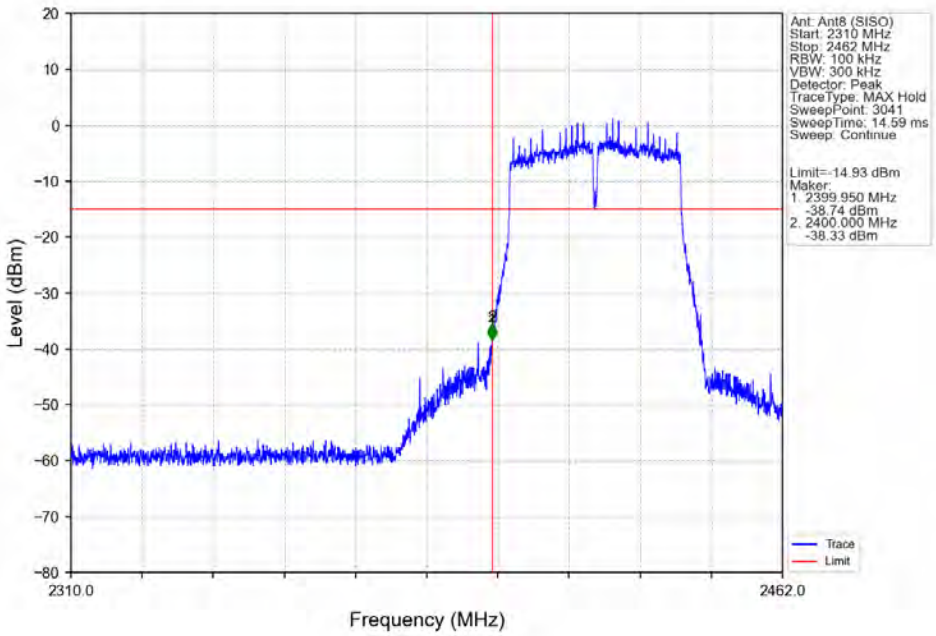
802.11ac(VHT20)_HCH_2462MHz_Ant8 (SISO)_NTNV




802.11ac(VHT40)_LCH_2422MHz_Ant8 (SISO)_NTNV

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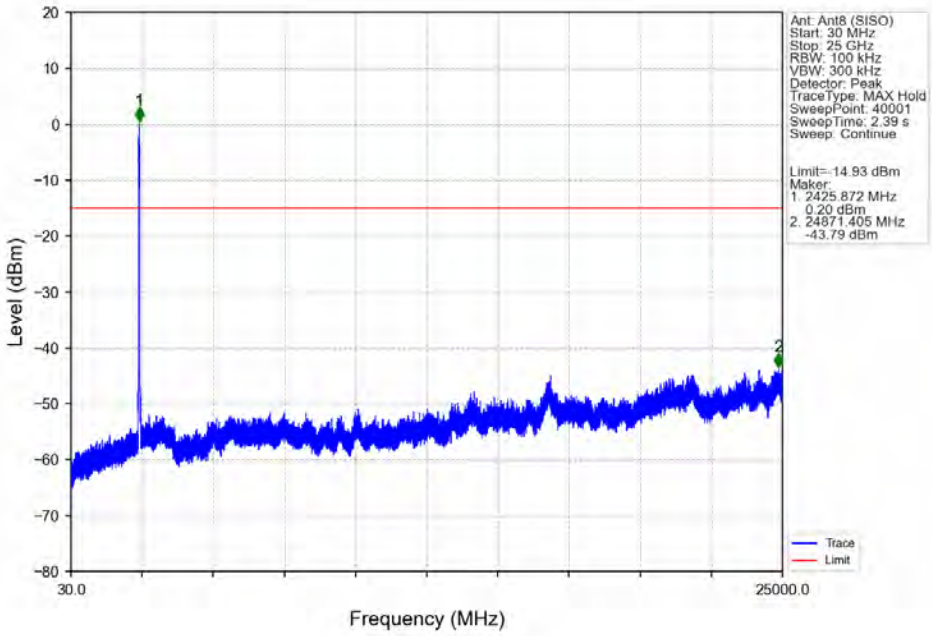
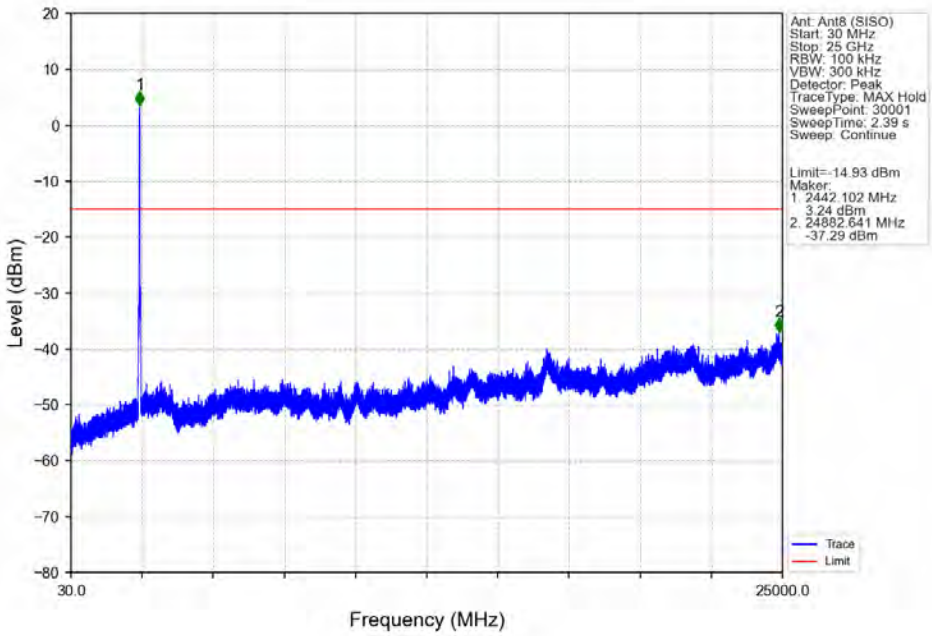
802.11ac(VHT40)_LCH_2422MHz_Ant8 (SISO)_NTNV




802.11ac(VHT40)_MCH_2437MHz_Ant8 (SISO)_NTNV

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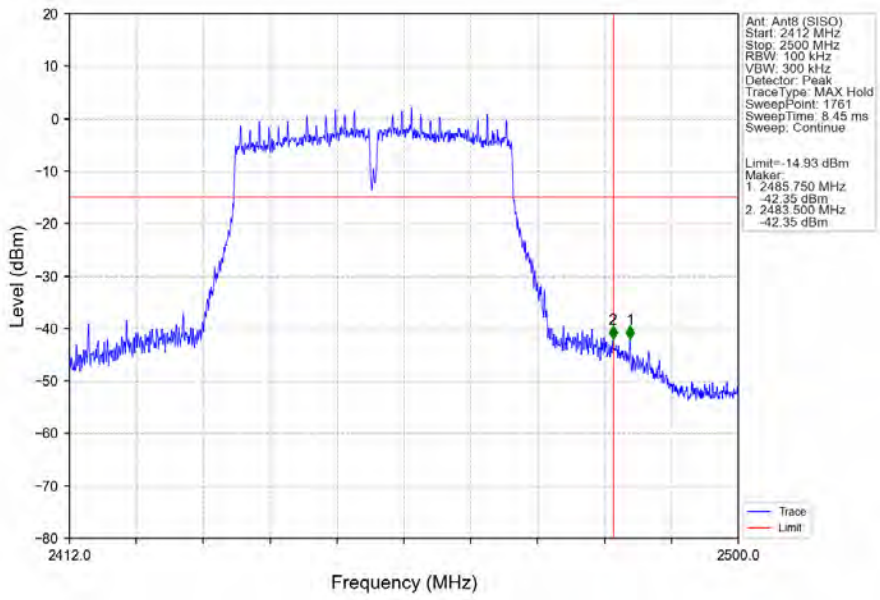
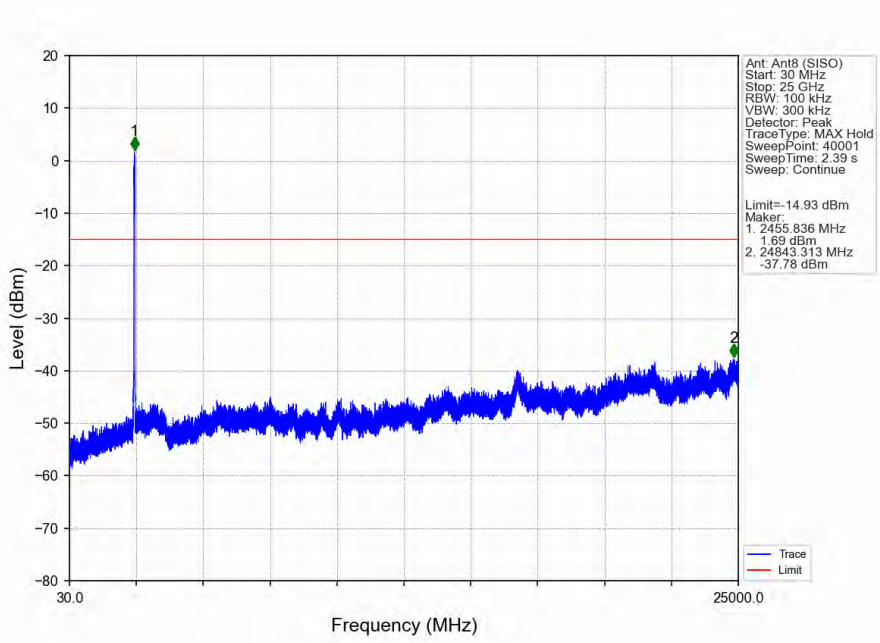
802.11ac(VHT40)_HCH_2452MHz_Ant8 (SISO)_NTNV




802.11ac(VHT40)_HCH_2452MHz_Ant8 (SISO)_NTNV

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