

# TEST REPORT

**Application No.:** SZCR2512005587AT  
**Applicant:** Fujian Landi Commercial Equipment Co.,Ltd.  
**Address of Applicant:** Building 17, Area A, Software Park, No.89 Software Road, Gulou District, Fuzhou, 350003, Fujian, China  
**Equipment Under Test (EUT):**  
**EUT Name:** Payment Terminal  
**Model No.:** P20R01  
**Trade Mark:** Landi  
**FCC ID:** 2AG6N-P2RA  
**Standard(s) :** 47 CFR Part 15, Subpart C 15.247  
**Date of Receipt:** 2025-12-17  
**Date of Test:** 2025-12-27 to 2026-01-09  
**Date of Issue:** 2026-01-14

|                     |              |
|---------------------|--------------|
| <b>Test Result:</b> | <b>Pass*</b> |
|---------------------|--------------|

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

*Keny Xu*

Keny Xu  
EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch EMC Laboratory

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SZEMC-TRF-01 Rev. A/2

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| Revision Record |         |            |          |          |
|-----------------|---------|------------|----------|----------|
| Version         | Chapter | Date       | Modifier | Remark   |
| 01              |         | 2026-01-14 |          | Original |
|                 |         |            |          |          |
|                 |         |            |          |          |

|                          |  |                              |  |  |
|--------------------------|--|------------------------------|--|--|
| Authorized for issue by: |  |                              |  |  |
|                          |  | Calvin Weng                  |  |  |
|                          |  | Calvin Weng/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 (2020) Section 6.2     | 47 CFR Part 15, Subpart C 15.207          | Pass   |
| Radiated Emissions which fall in the restricted bands |                                  | ANSI C63.10 (2020) Section 6.10.5  | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass   |
| Radiated Spurious Emissions Below 1GHz                |                                  | ANSI C63.10 (2020) Section 6.4,6.5 | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass   |
| Radiated Spurious Emissions Above 1GHz                |                                  | ANSI C63.10 (2020) Section 6.6     | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass   |
| Conducted Output Power                                |                                  | ANSI C63.10 (2020) Section 11.9.2  | 47 CFR Part 15, Subpart C 15.247(b)(3)    | Pass   |

### Remark:

Model No.: P20R01

This test report (Ref. No.: SZCR251200558704) is only valid with the modular test report

(Ref. No.: FR480203C, FCC ID: XMR2024SC200EAU)

According to the declaration from the applicant, the WIFI module used in this report and the one in original report were identical (Smart LTE Module, model No.: SC200E-AU), only change the antenna.

Therefore in this report the section 2 items were fully retested on model and shown the data in this report, other tests please refer to modular test report FR480203C.

Remark: The EUT contains three different configurations, for the difference, please refer to below table:

|    |                                  |                                                                                                                                                                                                                      |
|----|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Without external battery version | No external backup power function - the device will shut down immediately after the adapter is unplugged.                                                                                                            |
| 2. | super capacitor version          | With built in super capacitor backup power function.                                                                                                                                                                 |
| 3. | With external battery version    | With external battery backup power function - the device will continue to work as intended for several minutes after the adapter in unplugged. It's the same design with configuration 1, only add external battery. |

Therefore, all tests were performed on super capacitor version.



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## 4 General Information

### 4.1 Details of E.U.T.

|                                     |                                                                                                                                                                                                         |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power supply:                       | DC5V/2A by AC/DC power adapter<br>Adapter Manufacturer: Something High Electric(Xiamen) Company Inc.<br>Adapter M/N:P24C050400 US<br>Adapter Input:AC100-240V, 50/60Hz, 0.6A<br>Adapter Output: DC5V/4A |
| Cable(s):                           | USB type C cable: 1.5m shielded cable without ferrite core                                                                                                                                              |
| Cable Loss (for RF conducted test): | 0.7dB                                                                                                                                                                                                   |
| Operation Frequency:                | 802.11b/g/n(HT20): 2412MHz to 2462MHz;802.11n(HT40): 2422MHz to 2452MHz                                                                                                                                 |
| Modulation Type:                    | 802.11b: DSSS (DBPSK, DQPSK, CCK); 802.11g/n: OFDM (BPSK, QPSK, 16QAM, 64QAM)                                                                                                                           |
| Number of Channels:                 | 802.11b/g/n(HT20):11;802.11n(HT40):7                                                                                                                                                                    |
| Channel Spacing:                    | 5MHz                                                                                                                                                                                                    |
| Antenna Type:                       | PIFA Antenna                                                                                                                                                                                            |
| Antenna Gain:                       | 2.51dBi                                                                                                                                                                                                 |

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

### 4.2 Description of Support Units

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

The EUT has been tested as an independent unit.

### 4.3 Measurement Uncertainty

| Test Item                                             | Measurement Uncertainty                                          |
|-------------------------------------------------------|------------------------------------------------------------------|
| Conducted Emissions at AC Power Line (150kHz-30MHz)   | $\pm 3.2\text{dB}$                                               |
| Radiated Emissions which fall in the restricted bands | $\pm 6.0\text{dB}$ (Below 1GHz); $\pm 4.6\text{dB}$ (Above 1GHz) |
| Radiated Spurious Emissions Below 1GHz                | $\pm 6.0\text{dB}$ for 3m; $\pm 5.0\text{dB}$ for 10m            |
| Radiated Spurious Emissions Above 1GHz                | $\pm 4.6\text{dB}$ (1-18GHz); $\pm 4.8\text{dB}$ (18-40GHz)      |
| Conducted Output Power                                | $\pm 0.4\text{dB}$                                               |

Remark:

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

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



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## 4.4 Test Location

All tests were performed at:

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No tests were sub-contracted.

## 4.5 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.

## 4.6 Deviation from Standards

None

## 4.7 Abnormalities from Standard Conditions

None



## 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     | 2025-05-07 | 2028-05-06   |
| EMI Test Receiver                                   | Rohde&Schwarz    | ESR              | SZ-WRG-M-047  | 2025-12-15 | 2026-12-14   |
| Measurement Software                                | AUDIX            | e3 V8.2014-6-27a | N/A           | N/A        | N/A          |
| Coaxial Cable                                       | SGS              | N/A              | SEM024-01     | 2025-07-05 | 2026-07-04   |
| LISN                                                | Rohde&Schwarz    | ENV216           | SEM007-01     | 2025-07-25 | 2026-07-24   |
| LISN                                                | ETS-LINDGREN     | 3816/2           | SEM007-02     | 2025-03-03 | 2026-03-02   |

| 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  | 2025-12-16 | 2026-12-15   |
| Low Noise Amplifier 30M-8GHz                          | Tonscend        | TAP30M8G30      | SZ-WRG-M-050  | 2025-12-16 | 2026-12-15   |
| Double Ridge Horn Antenna 1GHz-18GHz                  | SCHWARZBECK     | BBHA 9120 D     | SZ-WRG-M-055  | 2025-12-13 | 2026-12-12   |
| RSE Test Software                                     | AUDIX           | e3 V8.2014-6-27 | N/A           | N/A        | N/A          |
| Chamber                                               | CRTSGSSAC966    | N/A             | SZ-WRG-C-063  | 2025-01-06 | 2028-01-05   |
| Humidity and Temperature Indicator                    | deli            | 8838            | SEM002-46     | 2025-07-23 | 2026-07-22   |

| Radiated Spurious Emissions Below 1GHz |                      |                 |               |            |              |
|----------------------------------------|----------------------|-----------------|---------------|------------|--------------|
| Equipment                              | Manufacturer         | Model No.       | Inventory No. | Cal Date   | Cal Due Date |
| Loop Antenna                           | ETS-Lindgren         | 6502            | SEM003-08     | 2025-11-17 | 2027-11-16   |
| 3m Semi-Anechoic Chamber               | ETS-LINDGREN         | N/A             | SEM001-01     | 2023-06-19 | 2026-06-18   |
| MXE EMI Receiver                       | Agilent Technologies | N9038A          | SEM004-15     | 2025-07-25 | 2026-07-24   |
| BiConiLog Antenna                      | ETS-LINDGREN         | 3142C           | SEM003-01     | 2025-08-29 | 2027-08-28   |
| Pre-Amplifier                          | Agilent Technologies | 8447D           | SEM005-01     | 2025-03-04 | 2026-03-03   |
| Measurement Software                   | AUDIX                | e3 V8.2014-6-27 | N/A           | N/A        | N/A          |
| Coaxial Cable                          | SGS                  | N/A             | SEM025-01     | 2025-07-05 | 2026-07-04   |



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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  | 2025-12-16 | 2026-12-15   |
| Low Noise Amplifier 1G-18GHz           | Tonscend        | TAP01018050     | SZ-WRG-M-051  | 2025-12-16 | 2026-12-15   |
| Low Noise Amplifier 18G-40GHz          | Tonscend        | TAP18040048     | SZ-WRG-M-052  | 2025-12-16 | 2026-12-15   |
| Double Ridge Horn Antenna 1GHz-18GHz   | SCHWARZBECK     | BBHA 9120 D     | SZ-WRG-M-055  | 2025-12-13 | 2026-12-12   |
| SHF-EHF Horn 15GHz-40GHz               | SCHWARZBECK     | BBHA 9170       | SZ-WRG-M-056  | 2025-12-13 | 2026-12-12   |
| RSE Test Software                      | AUDIX           | e3 V8.2014-6-27 | N/A           | N/A        | N/A          |
| Chamber                                | CRTSGSSAC966    | N/A             | SZ-WRG-C-063  | 2025-01-06 | 2028-01-05   |
| Humidity and Temperature Indicator     | deli            | 8838            | SEM002-46     | 2025-07-23 | 2026-07-22   |

| RF Conducted Test    |              |               |               |            |              |
|----------------------|--------------|---------------|---------------|------------|--------------|
| Equipment            | Manufacturer | Model No.     | Inventory No. | Cal Date   | Cal Due Date |
| Power Sensor         | TST PASS     | TSPS2023R     | SEM009-26     | 2025-03-04 | 2026-03-03   |
| Power Sensor         | KEYSIGHT     | U2021XA       | SEM009-16     | 2025-03-04 | 2026-03-03   |
| DC Power Supply      | Chroma       | 62012P-80-60  | SEM011-11     | 2025-07-24 | 2026-07-23   |
| MXA Signal Analyzer  | KEYSIGHT     | N9020A        | SEM004-19     | 2025-03-04 | 2026-03-03   |
| Measurement Software | TST PASS     | TST PASS V2.0 | N/A           | N/A        | N/A          |
| Coaxial Cable        | SGS          | N/A           | SEM031-01     | 2025-07-05 | 2026-07-04   |
| Attenuator           | Huber+Suhner | 6620_SMA-50-1 | SEM021-09     | 2025-03-03 | 2026-03-02   |

| General used equipment          |                                           |           |               |            |              |
|---------------------------------|-------------------------------------------|-----------|---------------|------------|--------------|
| Equipment                       | Manufacturer                              | Model No. | Inventory No. | Cal Date   | Cal Due Date |
| Humidity/ Temperature Indicator | deli                                      | 8838      | SEM002-32     | 2025-07-23 | 2026-07-22   |
| Humidity/ Temperature Indicator | deli                                      | 8838      | SEM002-33     | 2025-07-23 | 2026-07-22   |
| Barometer                       | Changchun Meteorological Industry Factory | DYM3      | SEM002-01     | 2025-03-03 | 2026-03-02   |



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 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

## 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 integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2.51dBi.

Antenna location: Refer to internal photos



## 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 (2020) Section 6.2  
 Test Engineer: Mason Wu

Limit:

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

#### 7.1.1 E.U.T. Operation

Operating Environment:

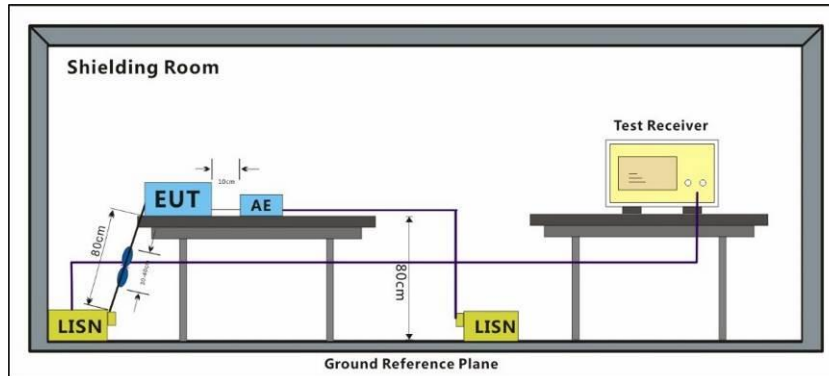
Temperature: 23.4 °C Humidity: 42.5 % RH Atmospheric Pressure: 1020 mbar

#### 7.1.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                                                                              |
|-----------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------|
| Final test            | 03        | TX mode_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report. |



### 7.1.3 Test Setup Diagram



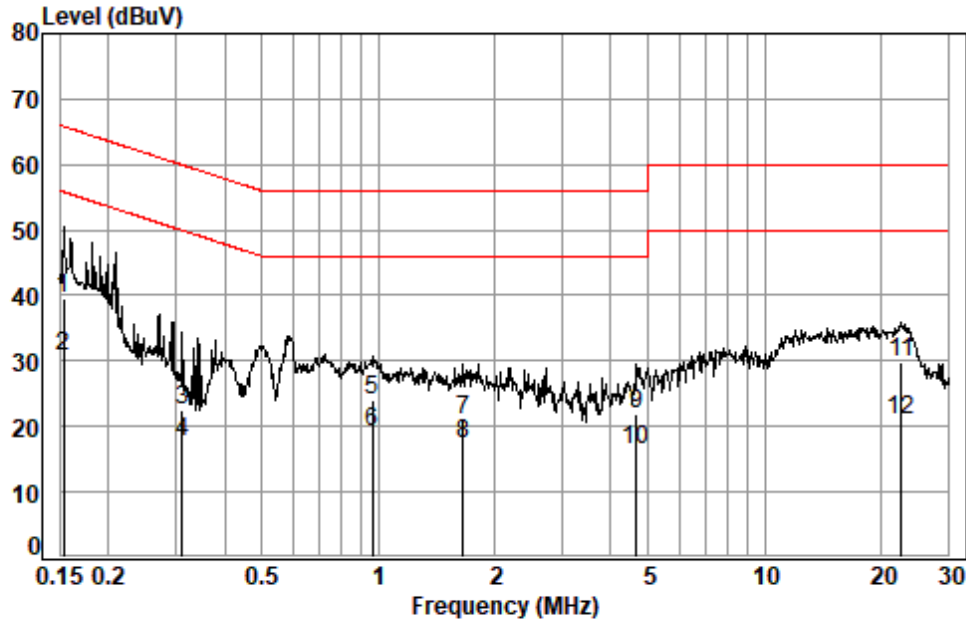
### 7.1.4 Measurement Procedure and Data

- 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



Test Mode: 03; Line: Live line



Site : Shielding Room

Condition: Line

Job No. : 05587AT

Test mode: 03

: 1#

|     |         | Cable | LISN   | Read  |       | Limit | Over   |         |
|-----|---------|-------|--------|-------|-------|-------|--------|---------|
|     | Freq    | Loss  | Factor | Level | Level | Line  | Limit  | Remark  |
|     | MHz     | dB    | dB     | dBuV  | dBuV  | dBuV  | dB     |         |
| 1 * | 0.1532  | 0.06  | 10.19  | 29.42 | 39.67 | 65.82 | -26.15 | QP      |
| 2 * | 0.1532  | 0.06  | 10.19  | 20.58 | 30.83 | 55.82 | -24.99 | Average |
| 3   | 0.3116  | 0.08  | 9.83   | 12.67 | 22.58 | 59.93 | -37.35 | QP      |
| 4   | 0.3116  | 0.08  | 9.83   | 7.87  | 17.78 | 49.93 | -32.15 | Average |
| 5   | 0.9633  | 0.11  | 9.59   | 14.39 | 24.09 | 56.00 | -31.91 | QP      |
| 6   | 0.9633  | 0.11  | 9.59   | 9.38  | 19.08 | 46.00 | -26.92 | Average |
| 7   | 1.6537  | 0.12  | 9.58   | 11.35 | 21.05 | 56.00 | -34.95 | QP      |
| 8   | 1.6537  | 0.12  | 9.58   | 7.50  | 17.20 | 46.00 | -28.80 | Average |
| 9   | 4.6715  | 0.14  | 9.66   | 12.25 | 22.05 | 56.00 | -33.95 | QP      |
| 10  | 4.6715  | 0.14  | 9.66   | 6.75  | 16.55 | 46.00 | -29.45 | Average |
| 11  | 22.6551 | 0.22  | 10.23  | 19.28 | 29.73 | 60.00 | -30.27 | QP      |
| 12  | 22.6551 | 0.22  | 10.23  | 10.45 | 20.90 | 50.00 | -29.10 | Average |



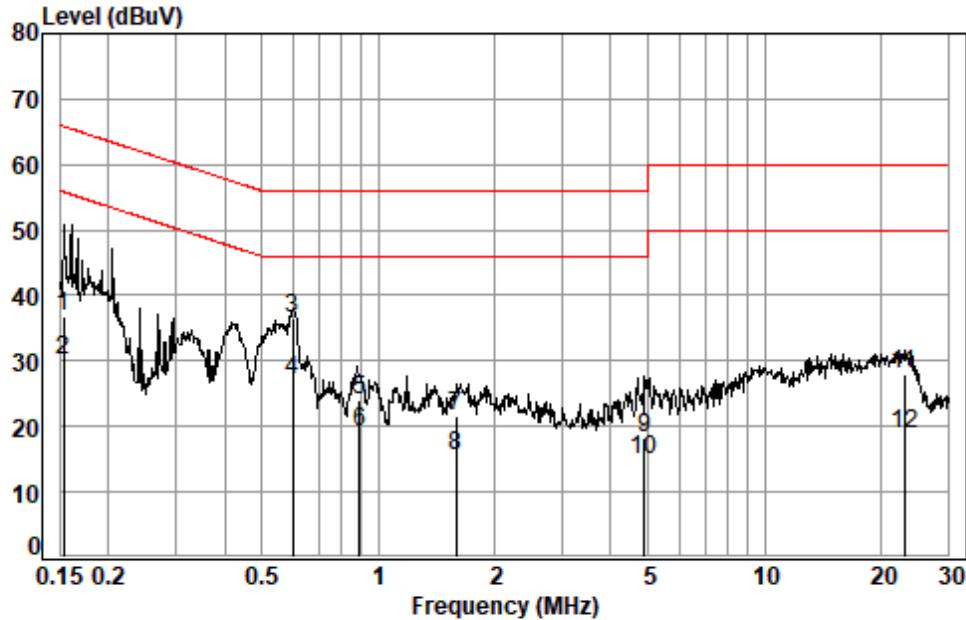
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SZEMC-TRF-01 Rev. A/2

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Page: 14 of 45

Test Mode: 03; Line: Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 05587AT

Test mode: 03

: 1#

|     | Freq    | Cable Loss | LISN Factor | Read Level | Limit Level | Limit Line | Over Limit | Remark  |
|-----|---------|------------|-------------|------------|-------------|------------|------------|---------|
|     | MHz     | dB         | dB          | dBuV       | dBuV        | dBuV       | dB         |         |
| 1   | 0.1532  | 0.06       | 10.15       | 26.61      | 36.82       | 65.82      | -29.00     | QP      |
| 2   | 0.1532  | 0.06       | 10.15       | 19.84      | 30.05       | 55.82      | -25.77     | Average |
| 3 * | 0.6011  | 0.10       | 9.68        | 26.65      | 36.43       | 56.00      | -19.57     | QP      |
| 4 * | 0.6011  | 0.10       | 9.68        | 17.24      | 27.02       | 46.00      | -18.98     | Average |
| 5   | 0.8944  | 0.11       | 9.57        | 14.37      | 24.05       | 56.00      | -31.95     | QP      |
| 6   | 0.8944  | 0.11       | 9.57        | 9.58       | 19.26       | 46.00      | -26.74     | Average |
| 7   | 1.5935  | 0.12       | 9.55        | 11.96      | 21.63       | 56.00      | -34.37     | QP      |
| 8   | 1.5935  | 0.12       | 9.55        | 5.96       | 15.63       | 46.00      | -30.37     | Average |
| 9   | 4.8997  | 0.14       | 9.56        | 8.56       | 18.26       | 56.00      | -37.74     | QP      |
| 10  | 4.8997  | 0.14       | 9.56        | 5.17       | 14.87       | 46.00      | -31.13     | Average |
| 11  | 23.0181 | 0.22       | 10.33       | 17.45      | 28.00       | 60.00      | -32.00     | QP      |
| 12  | 23.0181 | 0.22       | 10.33       | 8.27       | 18.82       | 50.00      | -31.18     | 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 (2020) Section 6.10.5  
 Measurement Distance: 3m  
 Test Engineer: Mihawk Li

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:

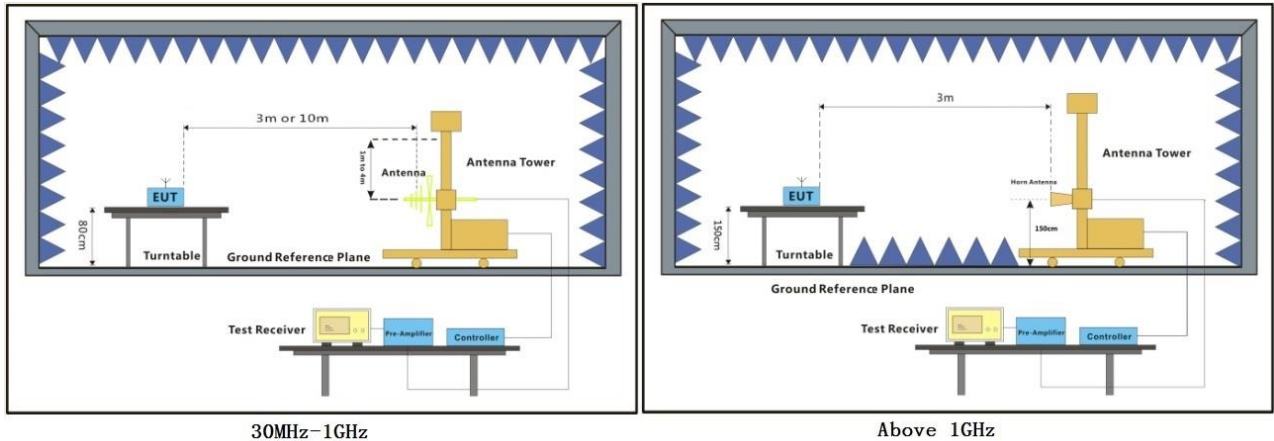
Temperature: 22.5 °C Humidity: 51.8 % RH Atmospheric Pressure: 1020 mbar

### 7.2.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                                                                              |
|-----------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------|
| Final test            | 03        | TX mode_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report. |



### 7.2.3 Test Setup Diagram



30MHz-1GHz

Above 1GHz



## 7.2.4 Measurement Procedure and Data

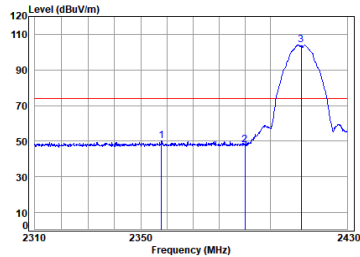
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 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.



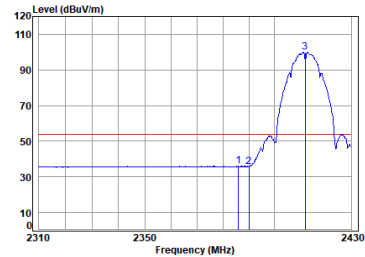
11b\_TX\_CH\_01\_Horizontal-Peak



Condition: 3m HORIZONTAL  
Job No : 05587AT  
Mode : 2412 Band edge  
: 2.4G Wi-Fi 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    | 2357.869 | 6.81       | 27.62      | 30.60         | 46.48      | 50.31  | 74.00      | -23.69     | Peak   |
| 2    | 2390.000 | 6.83       | 27.68      | 30.60         | 44.06      | 47.97  | 74.00      | -26.03     | Peak   |
| 3 pp | 2412.000 | 6.91       | 27.72      | 30.60         | 99.97      | 104.00 | 74.00      | 30.00      | Peak   |

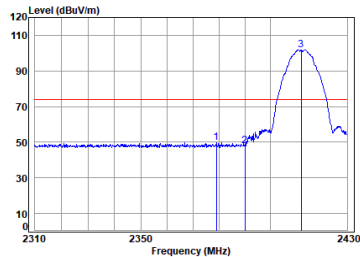
11b\_TX\_CH\_01\_Horizontal-Avg



Condition: 3m HORIZONTAL  
Job No : 05587AT  
Mode : 2412 Band edge  
: 2.4G Wi-Fi 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    | 2385.978 | 6.82       | 27.67      | 30.60         | 32.04      | 35.93  | 54.00      | -18.07     | Average |
| 2    | 2390.000 | 6.83       | 27.68      | 30.60         | 31.84      | 35.75  | 54.00      | -18.25     | Average |
| 3 pp | 2412.000 | 6.91       | 27.72      | 30.60         | 96.06      | 100.09 | 54.00      | 46.09      | Average |

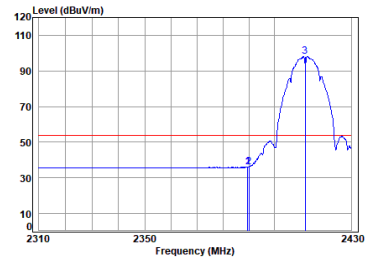
11b\_TX\_CH\_01\_Vertical-Peak



Condition: 3m VERTICAL  
Job No : 05587AT  
Mode : 2412 Band edge  
: 2.4G Wi-Fi 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    | 2378.979 | 6.82       | 27.66      | 30.60         | 45.94      | 49.82  | 74.00      | -24.18     | Peak   |
| 2    | 2390.000 | 6.83       | 27.68      | 30.60         | 44.04      | 47.95  | 74.00      | -26.05     | Peak   |
| 3 pp | 2412.000 | 6.91       | 27.72      | 30.60         | 97.91      | 101.94 | 74.00      | 27.94      | Peak   |

11b\_TX\_CH\_01\_Vertical-Avg



Condition: 3m VERTICAL  
Job No : 05587AT  
Mode : 2412 Band edge  
: 2.4G Wi-Fi 11B

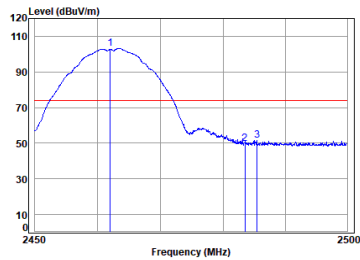
|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark  |
|------|----------|------------|------------|---------------|------------|--------|------------|------------|---------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1    | 2389.484 | 6.82       | 27.68      | 30.60         | 32.30      | 36.20  | 54.00      | -17.80     | Average |
| 2    | 2390.000 | 6.83       | 27.68      | 30.60         | 32.20      | 36.11  | 54.00      | -17.89     | Average |
| 3 pp | 2412.000 | 6.91       | 27.72      | 30.60         | 94.17      | 98.20  | 54.00      | 44.20      | Average |



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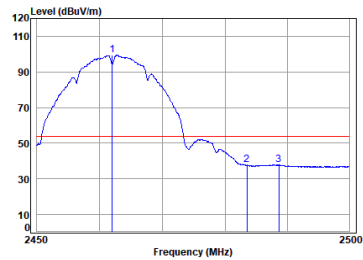
11b\_TX\_CH\_11\_Horizontal-Peak



Condition: 3m HORIZONTAL  
Job No : 05587AT  
Mode : 2462 Band edge  
: 2.4G Wi-Fi 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       | 27.85      | 30.60         | 98.67      | 103.17 | 74.00      | 29.17      | Peak   |
| 2 | 2483.500    | 7.40       | 27.93      | 30.60         | 45.04      | 49.77  | 74.00      | -24.23     | Peak   |
| 3 | 2485.446    | 7.41       | 27.94      | 30.60         | 46.66      | 51.41  | 74.00      | -22.59     | Peak   |

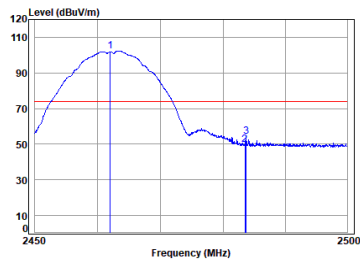
11b\_TX\_CH\_11\_Horizontal-Avg



Condition: 3m HORIZONTAL  
Job No : 05587AT  
Mode : 2462 Band edge  
: 2.4G Wi-Fi 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       | 27.85      | 30.60         | 94.82      | 99.32  | 54.00      | 45.32      | Average |
| 2 | 2483.500    | 7.40       | 27.93      | 30.60         | 33.11      | 37.84  | 54.00      | -16.16     | Average |
| 3 | 2488.662    | 7.43       | 27.96      | 30.60         | 33.21      | 38.00  | 54.00      | -16.00     | Average |

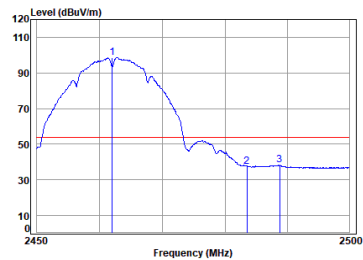
11b\_TX\_CH\_11\_Vertical-Peak



Condition: 3m VERTICAL  
Job No : 05587AT  
Mode : 2462 Band edge  
: 2.4G Wi-Fi 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       | 27.85      | 30.60         | 97.82      | 102.32 | 74.00      | 28.32      | Peak   |
| 2 | 2483.500    | 7.40       | 27.93      | 30.60         | 45.21      | 49.94  | 74.00      | -24.06     | Peak   |
| 3 | 2483.740    | 7.40       | 27.94      | 30.60         | 49.72      | 54.46  | 74.00      | -19.54     | Peak   |

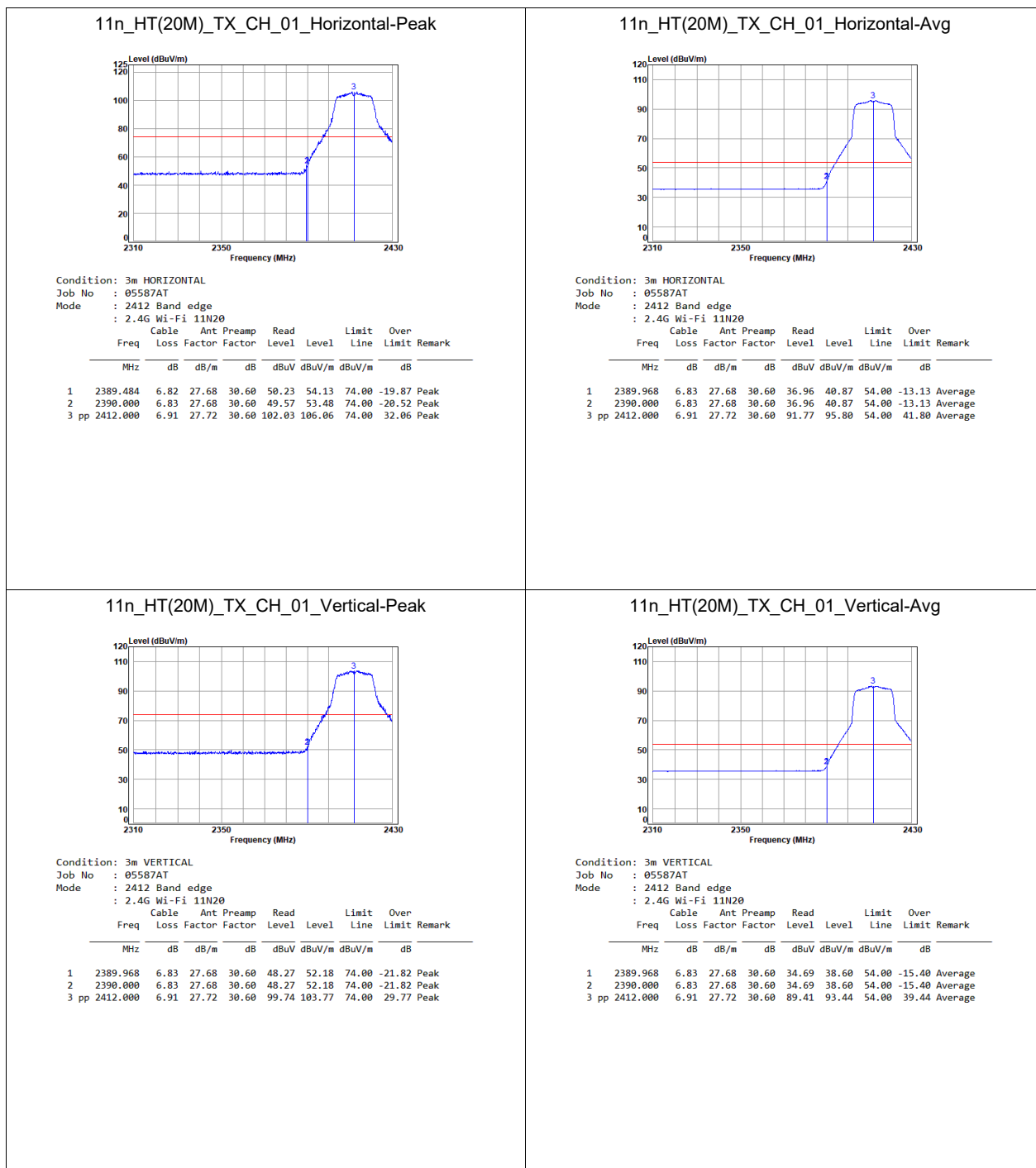
11b\_TX\_CH\_11\_Vertical-Avg

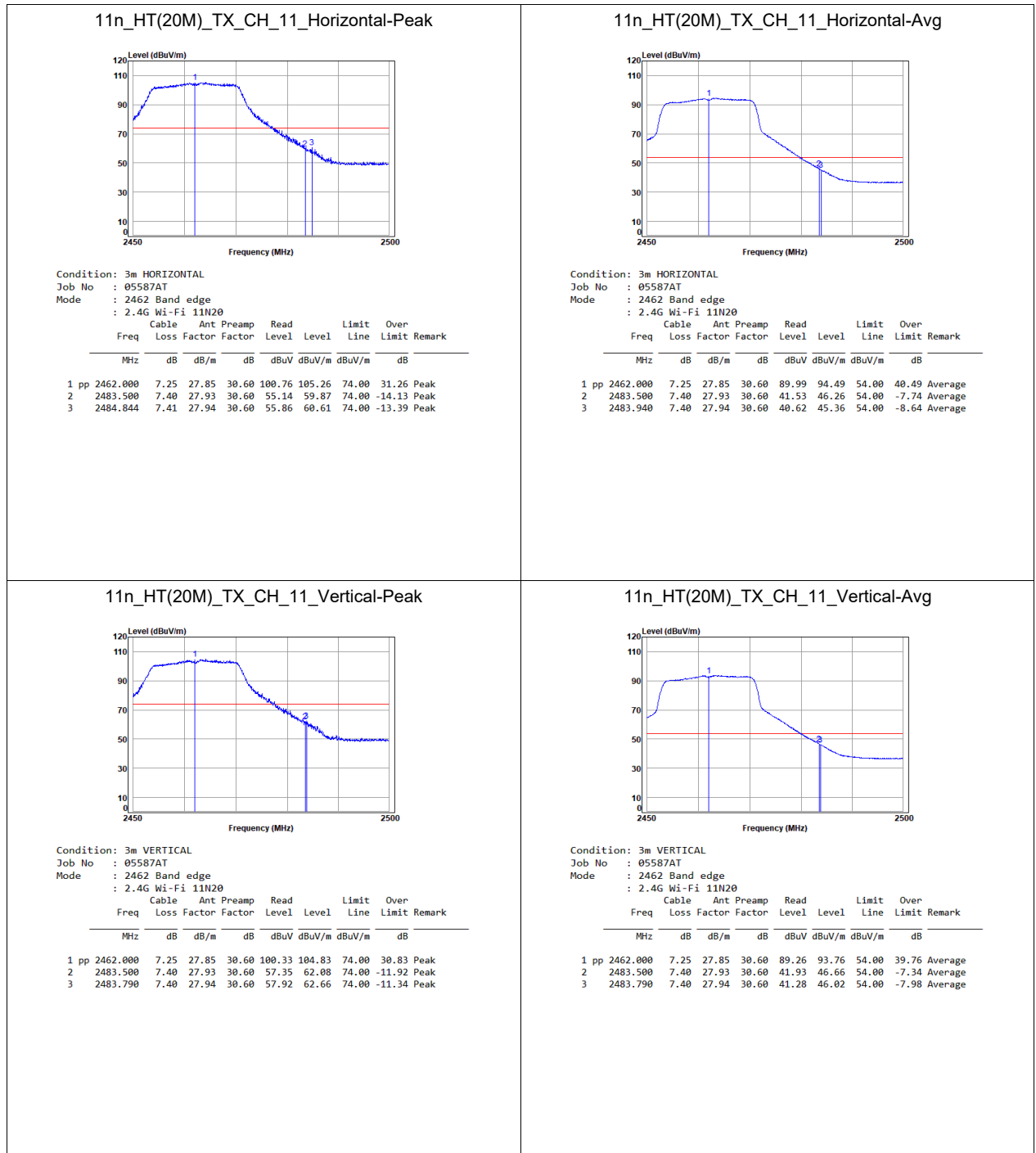


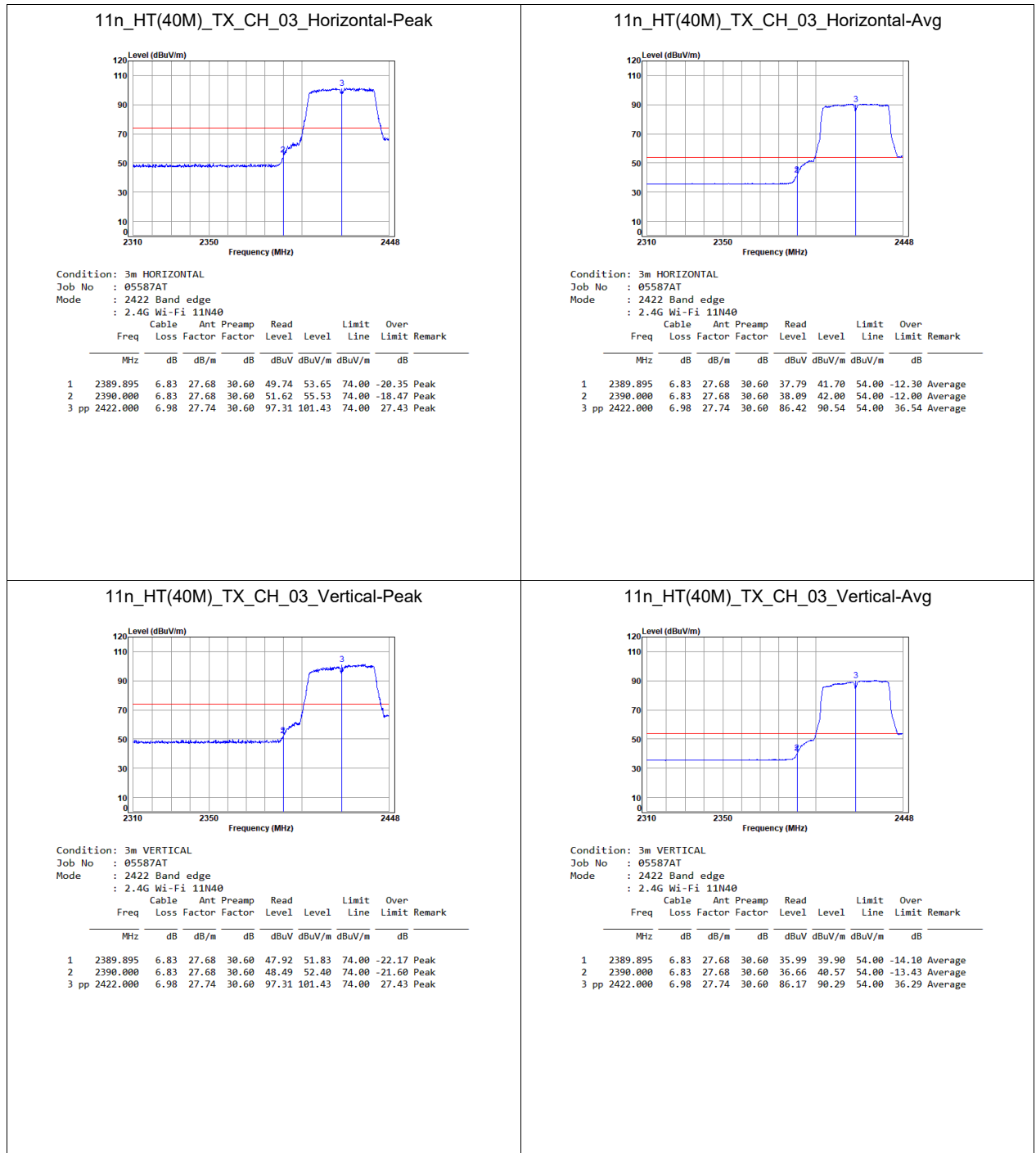
Condition: 3m VERTICAL  
Job No : 05587AT  
Mode : 2462 Band edge  
: 2.4G Wi-Fi 11B

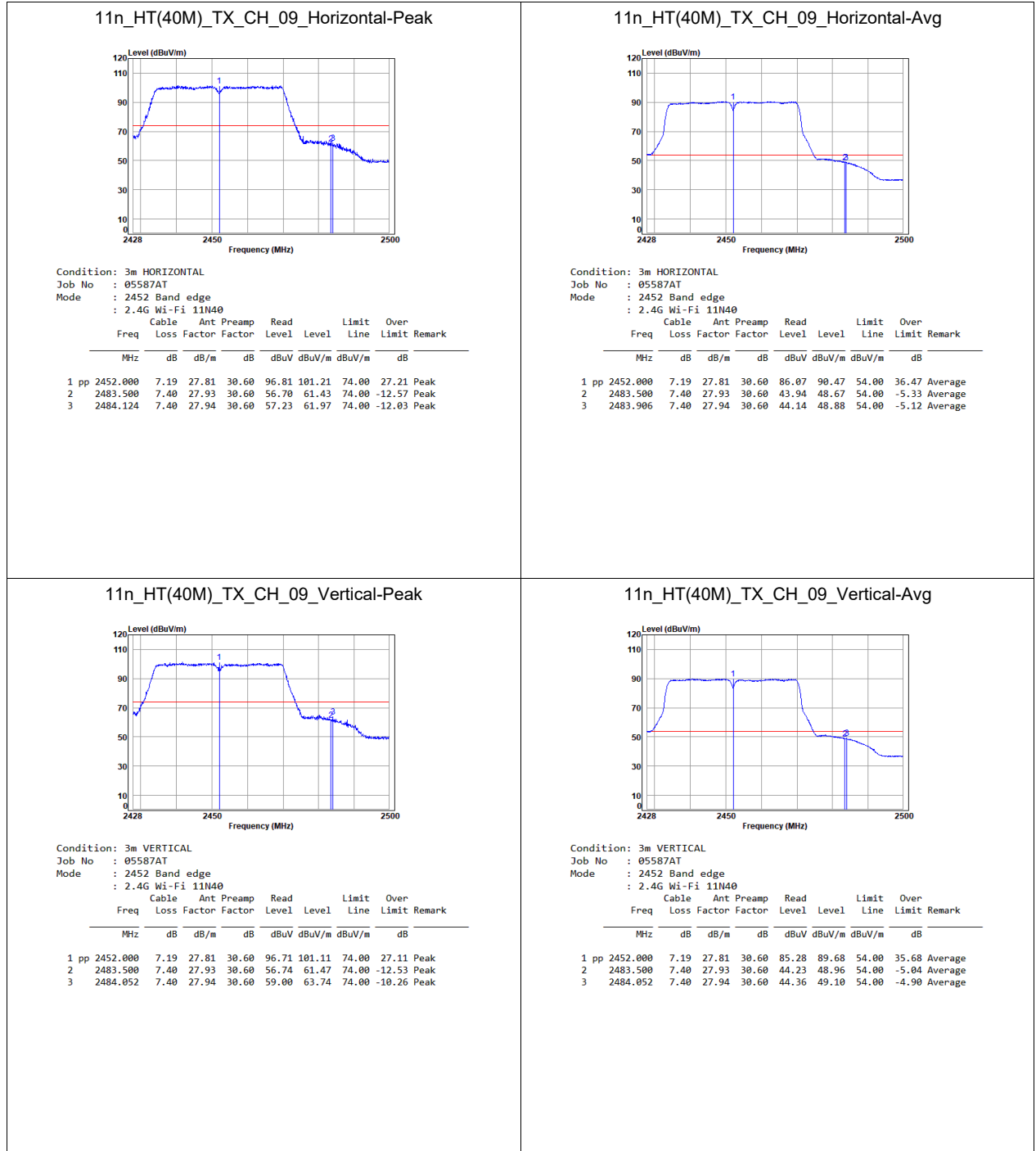
|   | Freq        | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark  |
|---|-------------|------------|------------|---------------|------------|--------|------------|------------|---------|
|   | MHz         | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1 | pp 2462.000 | 7.25       | 27.85      | 30.60         | 94.00      | 98.50  | 54.00      | 44.50      | Average |
| 2 | 2483.500    | 7.40       | 27.93      | 30.60         | 32.90      | 37.63  | 54.00      | -16.37     | Average |
| 3 | 2488.813    | 7.44       | 27.96      | 30.60         | 33.36      | 38.16  | 54.00      | -15.84     | Average |











## 7.3 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209  
 Test Method: ANSI C63.10 (2020) Section 6.4,6.5  
 Measurement Distance: 3m  
 Test Engineer: Mason Wu

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:

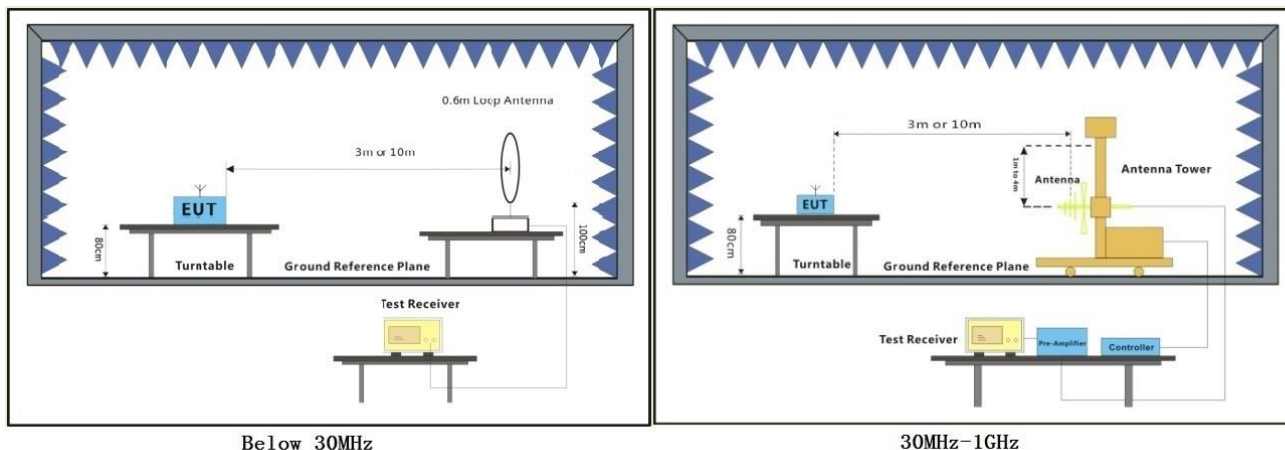
Temperature: 23.2 °C Humidity: 45.6 % RH Atmospheric Pressure: 1020 mbar

### 7.3.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                                                                              |
|-----------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------|
| Final test            | 03        | TX mode_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report. |



### 7.3.3 Test Setup Diagram



### 7.3.4 Measurement Procedure and Data

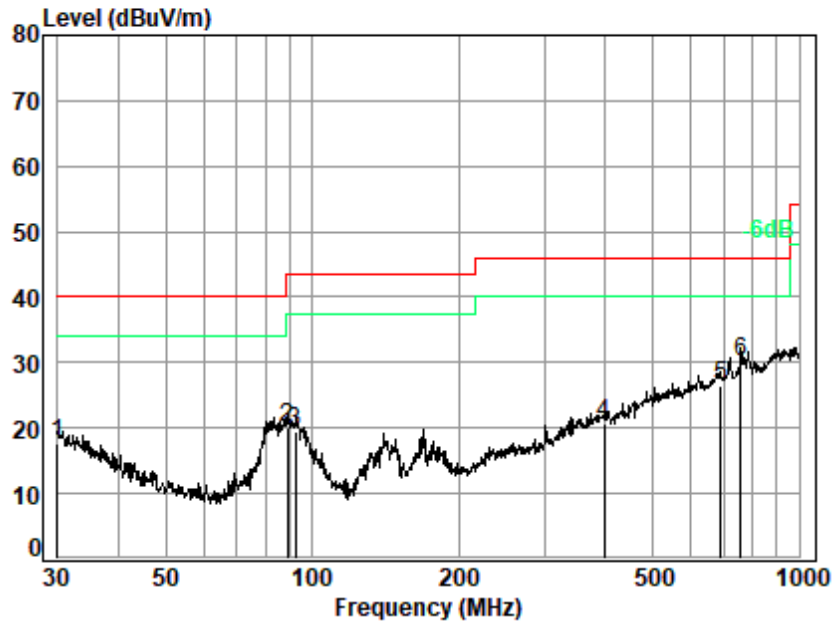
- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was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

Remark:

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



Test Mode: 03; Polarity: Horizontal

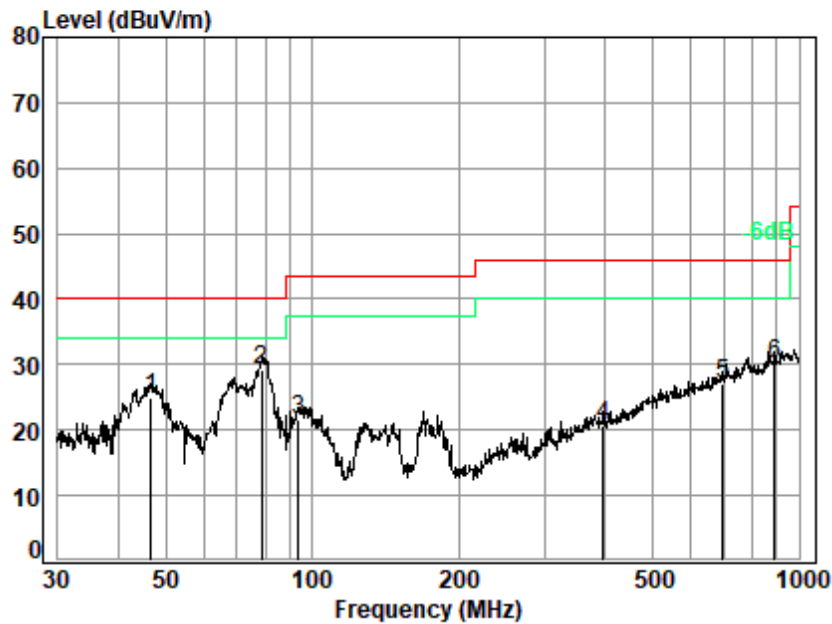


Site : chamber  
Condition: 3m HORIZONTAL  
Job No. : 05587AT  
Test Mode: 03

|     | Ant     | Cable  | Preamp | Read   |       | Limit  | Over   |              |
|-----|---------|--------|--------|--------|-------|--------|--------|--------------|
|     | Freq    | Factor | Loss   | Factor | Level | Level  | Line   | Limit Remark |
|     | MHz     | dB/m   | dB     | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1   | 30.000  | 21.20  | 0.74   | 27.65  | 23.31 | 17.60  | 40.00  | -22.40 QP    |
| 2   | 88.964  | 11.61  | 1.17   | 27.61  | 34.96 | 20.13  | 43.50  | -23.37 QP    |
| 3   | 92.462  | 11.94  | 1.19   | 27.60  | 33.95 | 19.48  | 43.50  | -24.02 QP    |
| 4   | 397.633 | 20.65  | 2.48   | 27.74  | 25.14 | 20.53  | 46.00  | -25.47 QP    |
| 5   | 689.565 | 25.69  | 3.38   | 27.86  | 25.25 | 26.46  | 46.00  | -19.54 QP    |
| 6 q | 758.041 | 26.48  | 3.58   | 27.69  | 27.80 | 30.17  | 46.00  | -15.83 QP    |



Test Mode: 03; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No. : 05587AT  
Test Mode: 03

|     | Ant     | Cable  | Preamp | Read   |       | Limit  | Over   |              |
|-----|---------|--------|--------|--------|-------|--------|--------|--------------|
|     | Freq    | Factor | Loss   | Factor | Level | Level  | Line   | Limit Remark |
|     | MHz     | dB/m   | dB     | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1   | 46.666  | 13.74  | 0.88   | 27.63  | 38.07 | 25.06  | 40.00  | -14.94 QP    |
| 2 q | 78.689  | 10.40  | 1.09   | 27.61  | 45.45 | 29.33  | 40.00  | -10.67 QP    |
| 3   | 93.440  | 12.01  | 1.19   | 27.60  | 35.92 | 21.52  | 43.50  | -21.98 QP    |
| 4   | 396.242 | 20.68  | 2.48   | 27.74  | 25.27 | 20.69  | 46.00  | -25.31 QP    |
| 5   | 696.857 | 25.88  | 3.40   | 27.84  | 25.52 | 26.96  | 46.00  | -19.04 QP    |
| 6   | 890.728 | 28.06  | 3.95   | 27.02  | 25.03 | 30.02  | 46.00  | -15.98 QP    |



### 7.4 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209  
 Test Method: ANSI C63.10 (2020) Section 6.6  
 Measurement Distance: 3m  
 Test Engineer: Mihawk Li

Limit:

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

#### 7.4.1 E.U.T. Operation

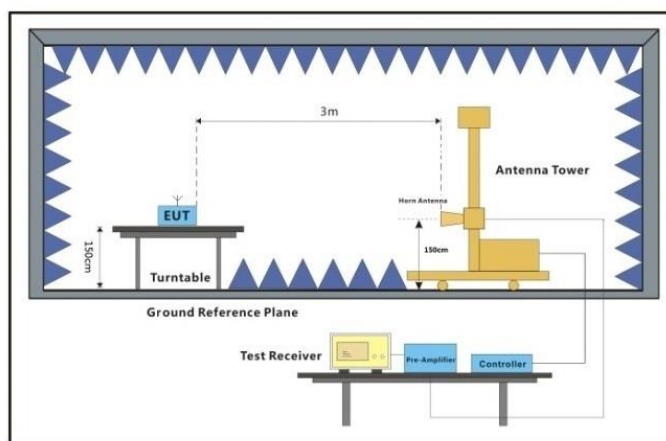
Operating Environment:

Temperature: 23.1 °C Humidity: 56.8 % RH Atmospheric Pressure: 1020 mbar

#### 7.4.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                                                                              |
|-----------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------|
| Final test            | 03        | TX mode_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report. |

#### 7.4.3 Test Setup Diagram



Above 1GHz



## 7.4.4 Measurement Procedure and Data

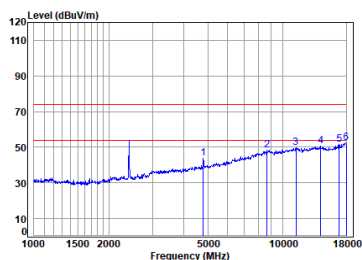
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was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



11b\_TX\_CH\_01\_Horizontal



Condition: 3m HORIZONTAL

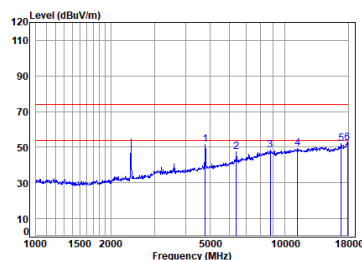
Job No : 05587AT

Mode : 2412 TX RSE

: 2.4G Wi-Fi 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 | 4790.245    | 8.89       | 32.56      | 55.91         | 58.40      | 43.94  | 74.00      | -30.06     | Peak   |
| 2 | 8663.404    | 11.91      | 38.23      | 55.09         | 53.16      | 48.21  | 74.00      | -25.79     | Peak   |
| 3 | 11302.480   | 14.39      | 39.40      | 53.41         | 49.34      | 49.72  | 74.00      | -24.28     | Peak   |
| 4 | 14201.690   | 16.67      | 40.50      | 54.10         | 47.70      | 50.77  | 74.00      | -23.23     | Peak   |
| 5 | 16891.040   | 19.64      | 38.60      | 53.88         | 47.22      | 51.58  | 74.00      | -22.42     | Peak   |
| 6 | pp18000.000 | 18.64      | 42.60      | 54.30         | 45.71      | 52.65  | 74.00      | -21.35     | Peak   |

11b\_TX\_CH\_01\_Vertical



Condition: 3m VERTICAL

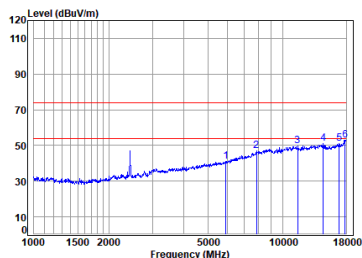
Job No : 05587AT

Mode : 2412 TX RSE

: 2.4G Wi-Fi 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 | 4790.245    | 8.89       | 32.56      | 55.91         | 65.81      | 51.35  | 74.00      | -22.65     | Peak   |
| 2 | 6395.654    | 10.51      | 34.81      | 56.56         | 58.76      | 47.52  | 74.00      | -26.48     | Peak   |
| 3 | 8764.146    | 12.22      | 38.30      | 54.97         | 52.73      | 48.28  | 74.00      | -25.72     | Peak   |
| 4 | 11269.860   | 14.35      | 39.43      | 53.42         | 48.89      | 49.25  | 74.00      | -24.75     | Peak   |
| 5 | 16891.040   | 19.64      | 38.60      | 53.88         | 47.55      | 51.91  | 74.00      | -22.09     | Peak   |
| 6 | pp17896.250 | 18.87      | 41.97      | 54.26         | 46.08      | 52.66  | 74.00      | -21.34     | Peak   |

11b\_TX\_CH\_06\_Horizontal



Condition: 3m HORIZONTAL

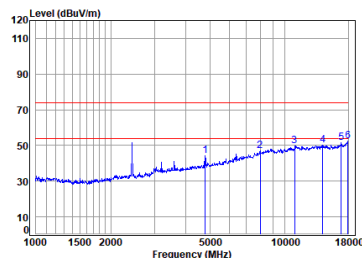
Job No : 05587AT

Mode : 2437 TX RSE

: 2.4G Wi-Fi 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 | 5915.516    | 9.99       | 34.27      | 56.56         | 53.56      | 41.26  | 74.00      | -32.74     | Peak   |
| 2 | 7852.524    | 11.36      | 37.11      | 55.98         | 54.41      | 46.90  | 74.00      | -27.10     | Peak   |
| 3 | 11500.200   | 14.23      | 39.20      | 53.35         | 49.57      | 49.65  | 74.00      | -24.35     | Peak   |
| 4 | 14575.970   | 16.46      | 40.20      | 54.10         | 48.65      | 51.21  | 74.00      | -22.79     | Peak   |
| 5 | 16891.040   | 19.64      | 38.60      | 53.88         | 46.63      | 50.99  | 74.00      | -23.01     | Peak   |
| 6 | pp17844.590 | 19.02      | 41.56      | 54.24         | 46.73      | 53.07  | 74.00      | -20.93     | Peak   |

11b\_TX\_CH\_06\_Vertical



Condition: 3m VERTICAL

Job No : 05587AT

Mode : 2437 TX RSE

: 2.4G Wi-Fi 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 | 4790.245    | 8.89       | 32.56      | 55.91         | 58.69      | 44.23  | 74.00      | -29.77     | Peak   |
| 2 | 7966.832    | 11.47      | 37.27      | 55.92         | 54.04      | 46.86  | 74.00      | -27.14     | Peak   |
| 3 | 10980.470   | 14.10      | 39.34      | 53.50         | 49.72      | 49.66  | 74.00      | -24.34     | Peak   |
| 4 | 14242.800   | 16.83      | 40.46      | 54.10         | 46.87      | 50.06  | 74.00      | -23.94     | Peak   |
| 5 | 16891.040   | 19.64      | 38.60      | 53.88         | 47.09      | 51.45  | 74.00      | -22.55     | Peak   |
| 6 | pp17948.050 | 18.75      | 42.29      | 54.28         | 45.91      | 52.67  | 74.00      | -21.33     | Peak   |



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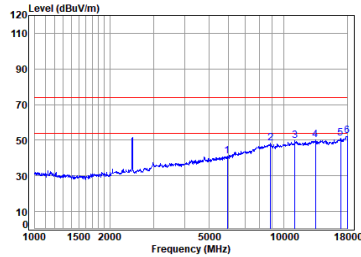
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443,

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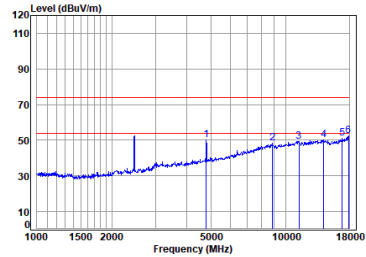
11b\_TX\_CH\_11\_Horizontal



Condition: 3m HORIZONTAL  
Job No : 05587AT  
Mode : 2462 TX RSE  
: 2.4G Wi-Fi 11B

|   | Freq        | Cable Loss | Ant Factor | Preamp | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|-------------|------------|------------|--------|------------|--------|------------|------------|--------|
|   | MHz         | dB         | dB/m       | dB     | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 5932.638    | 10.00      | 34.23      | 56.57  | 53.28      | 40.94  | 74.00      | -33.06     | Peak   |
| 2 | 8866.062    | 12.30      | 38.40      | 54.85  | 52.62      | 48.47  | 74.00      | -25.53     | Peak   |
| 3 | 11108.160   | 14.13      | 39.32      | 53.47  | 49.59      | 49.57  | 74.00      | -24.43     | Peak   |
| 4 | 13404.010   | 15.67      | 40.50      | 53.92  | 47.80      | 50.05  | 74.00      | -23.95     | Peak   |
| 5 | 16939.940   | 19.22      | 38.68      | 53.89  | 47.00      | 51.01  | 74.00      | -22.99     | Peak   |
| 6 | pp18000.000 | 18.64      | 42.60      | 54.30  | 45.41      | 52.35  | 74.00      | -21.65     | Peak   |

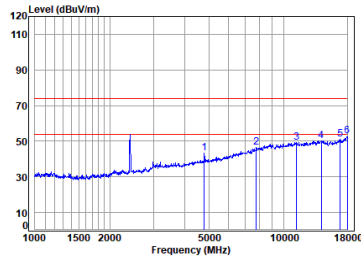
11b\_TX\_CH\_11\_Vertical



Condition: 3m VERTICAL  
Job No : 05587AT  
Mode : 2462 TX RSE  
: 2.4G Wi-Fi 11B

|   | Freq        | Cable Loss | Ant Factor | Preamp | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|-------------|------------|------------|--------|------------|--------|------------|------------|--------|
|   | MHz         | dB         | dB/m       | dB     | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 4790.245    | 8.89       | 32.56      | 55.91  | 64.70      | 50.24  | 74.00      | -23.76     | Peak   |
| 2 | 8840.473    | 12.33      | 38.38      | 54.88  | 52.51      | 48.34  | 74.00      | -25.66     | Peak   |
| 3 | 11302.480   | 14.39      | 39.40      | 53.41  | 48.91      | 49.29  | 74.00      | -24.71     | Peak   |
| 4 | 14242.800   | 16.83      | 40.46      | 54.10  | 46.83      | 50.02  | 74.00      | -23.98     | Peak   |
| 5 | 16891.040   | 19.64      | 38.60      | 53.88  | 46.54      | 50.90  | 74.00      | -23.10     | Peak   |
| 6 | pp17896.250 | 18.87      | 41.97      | 54.26  | 45.92      | 52.50  | 74.00      | -21.50     | Peak   |

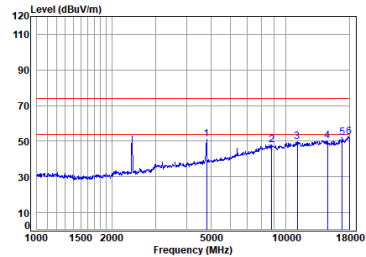
11n\_20M\_TX\_CH\_01\_Horizontal



Condition: 3m HORIZONTAL  
Job No : 05587AT  
Mode : 2412 TX RSE  
: 2.4G Wi-Fi 11N20

|   | Freq        | Cable Loss | Ant Factor | Preamp | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|-------------|------------|------------|--------|------------|--------|------------|------------|--------|
|   | MHz         | dB         | dB/m       | dB     | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 4790.245    | 8.89       | 32.56      | 55.91  | 57.95      | 43.49  | 74.00      | -30.51     | Peak   |
| 2 | 7762.260    | 11.22      | 37.00      | 56.04  | 54.15      | 46.33  | 74.00      | -27.67     | Peak   |
| 3 | 11269.860   | 14.35      | 39.43      | 53.42  | 49.05      | 49.41  | 74.00      | -24.59     | Peak   |
| 4 | 14160.710   | 16.53      | 40.46      | 54.10  | 47.52      | 50.41  | 74.00      | -23.59     | Peak   |
| 5 | 16891.040   | 19.64      | 38.60      | 53.88  | 46.90      | 51.26  | 74.00      | -22.74     | Peak   |
| 6 | pp18000.000 | 18.64      | 42.60      | 54.30  | 46.01      | 52.95  | 74.00      | -21.05     | Peak   |

11n\_20M\_TX\_CH\_01\_Vertical

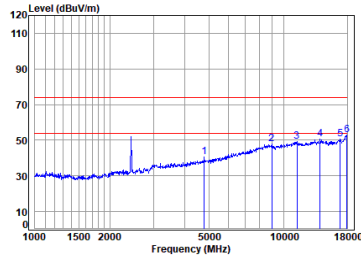


Condition: 3m VERTICAL  
Job No : 05587AT  
Mode : 2412 TX RSE  
: 2.4G Wi-Fi 11N20

|   | Freq        | Cable Loss | Ant Factor | Preamp | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|-------------|------------|------------|--------|------------|--------|------------|------------|--------|
|   | MHz         | dB         | dB/m       | dB     | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 4804.110    | 8.90       | 32.62      | 55.92  | 65.31      | 50.91  | 74.00      | -23.09     | Peak   |
| 2 | 8789.516    | 12.33      | 38.30      | 54.94  | 52.37      | 48.06  | 74.00      | -25.94     | Peak   |
| 3 | 11140.310   | 14.17      | 39.38      | 53.46  | 49.82      | 49.91  | 74.00      | -24.09     | Peak   |
| 4 | 14702.910   | 17.09      | 40.20      | 54.10  | 47.02      | 50.21  | 74.00      | -23.79     | Peak   |
| 5 | 16891.040   | 19.64      | 38.60      | 53.88  | 47.45      | 51.81  | 74.00      | -22.19     | Peak   |
| 6 | pp18000.000 | 18.64      | 42.60      | 54.30  | 45.75      | 52.69  | 74.00      | -21.31     | Peak   |



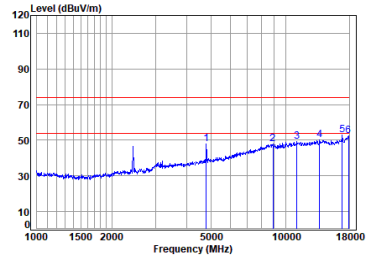
11n\_20M\_TX\_CH\_06\_Horizontal



Condition: 3m HORIZONTAL  
Job No : 05587AT  
Mode : 2437 TX RSE  
: 2.4G Wi-Fi 11N20

|   | Freq        | Cable Loss | Ant Factor | Preamp | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|-------------|------------|------------|--------|------------|--------|------------|------------|--------|
|   | MHz         | dB         | dB/m       | dB     | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 4804.000    | 8.90       | 32.62      | 55.92  | 55.04      | 40.64  | 74.00      | -33.36     | Peak   |
| 2 | 8969.161    | 12.15      | 38.46      | 54.73  | 51.99      | 47.87  | 74.00      | -26.13     | Peak   |
| 3 | 11302.480   | 14.39      | 39.40      | 53.41  | 48.96      | 49.34  | 74.00      | -24.66     | Peak   |
| 4 | 13997.930   | 16.53      | 40.59      | 54.10  | 47.84      | 50.86  | 74.00      | -23.14     | Peak   |
| 5 | 16891.040   | 19.64      | 38.60      | 53.88  | 46.29      | 50.65  | 74.00      | -23.35     | Peak   |
| 6 | pp17948.050 | 18.75      | 42.29      | 54.28  | 46.23      | 52.99  | 74.00      | -21.01     | Peak   |

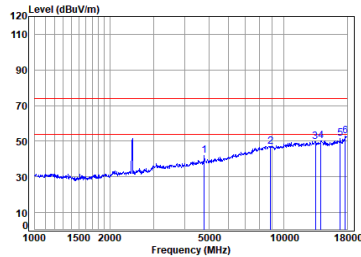
11n\_20M\_TX\_CH\_06\_Vertical



Condition: 3m VERTICAL  
Job No : 05587AT  
Mode : 2437 TX RSE  
: 2.4G Wi-Fi 11N20

|   | Freq        | Cable Loss | Ant Factor | Preamp | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|-------------|------------|------------|--------|------------|--------|------------|------------|--------|
|   | MHz         | dB         | dB/m       | dB     | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 4804.000    | 8.90       | 32.62      | 55.92  | 62.36      | 47.96  | 74.00      | -26.04     | Peak   |
| 2 | 8969.161    | 12.28      | 38.40      | 54.82  | 52.01      | 47.87  | 74.00      | -26.13     | Peak   |
| 3 | 11108.160   | 14.13      | 39.32      | 53.47  | 49.19      | 49.17  | 74.00      | -24.83     | Peak   |
| 4 | 13677.970   | 16.04      | 40.32      | 54.01  | 47.62      | 49.97  | 74.00      | -24.03     | Peak   |
| 5 | pp16891.040 | 19.64      | 38.60      | 53.88  | 48.40      | 52.76  | 74.00      | -21.24     | Peak   |
| 6 | 17896.250   | 18.87      | 41.97      | 54.26  | 45.83      | 52.41  | 74.00      | -21.59     | Peak   |

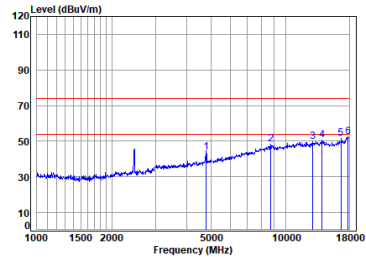
11n\_20M\_TX\_CH\_11\_Horizontal



Condition: 3m HORIZONTAL  
Job No : 05587AT  
Mode : 2462 TX RSE  
: 2.4G Wi-Fi 11N20

|   | Freq        | Cable Loss | Ant Factor | Preamp | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|-------------|------------|------------|--------|------------|--------|------------|------------|--------|
|   | MHz         | dB         | dB/m       | dB     | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 4804.000    | 8.90       | 32.62      | 55.92  | 56.47      | 42.07  | 74.00      | -31.93     | Peak   |
| 2 | 8866.062    | 12.30      | 38.40      | 54.85  | 51.35      | 47.20  | 74.00      | -26.80     | Peak   |
| 3 | 13404.010   | 15.67      | 40.50      | 53.92  | 47.36      | 49.61  | 74.00      | -24.39     | Peak   |
| 4 | 14119.830   | 16.40      | 40.42      | 54.10  | 47.59      | 50.31  | 74.00      | -23.69     | Peak   |
| 5 | 16891.040   | 19.64      | 38.60      | 53.88  | 47.32      | 51.68  | 74.00      | -22.32     | Peak   |
| 6 | pp17690.530 | 18.88      | 40.42      | 54.18  | 47.61      | 52.73  | 74.00      | -21.27     | Peak   |

11n\_20M\_TX\_CH\_11\_Vertical

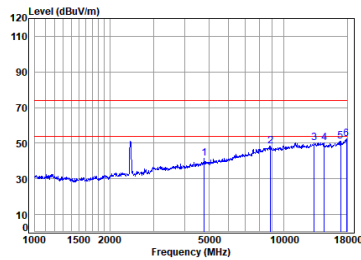


Condition: 3m VERTICAL  
Job No : 05587AT  
Mode : 2462 TX RSE  
: 2.4G Wi-Fi 11N20

|   | Freq        | Cable Loss | Ant Factor | Preamp | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|-------------|------------|------------|--------|------------|--------|------------|------------|--------|
|   | MHz         | dB         | dB/m       | dB     | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 4804.000    | 8.90       | 32.62      | 55.92  | 58.26      | 43.86  | 74.00      | -30.14     | Peak   |
| 2 | 8713.630    | 12.01      | 38.30      | 55.03  | 53.15      | 48.43  | 74.00      | -25.57     | Peak   |
| 3 | 12835.290   | 15.18      | 39.97      | 53.70  | 48.36      | 49.81  | 74.00      | -24.19     | Peak   |
| 4 | 13997.930   | 16.53      | 40.59      | 54.10  | 47.47      | 50.49  | 74.00      | -23.51     | Peak   |
| 5 | 16696.880   | 17.79      | 38.50      | 53.84  | 49.12      | 51.57  | 74.00      | -22.43     | Peak   |
| 6 | pp17844.590 | 19.02      | 41.56      | 54.24  | 46.31      | 52.65  | 74.00      | -21.35     | Peak   |



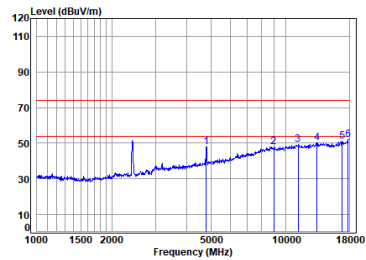
11n\_40M\_TX\_CH\_03\_Horizontal



Condition: 3m HORIZONTAL  
Job No : 05587AT  
Mode : 2422 TX RSE  
: 2.4G Wi-Fi 11N40

|   | Freq        | Cable Loss | Ant Factor | Preamp | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|-------------|------------|------------|--------|------------|--------|------------|------------|--------|
|   | MHz         | dB         | dB/m       | dB     | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 4804.000    | 8.90       | 32.62      | 55.92  | 55.73      | 41.33  | 74.00      | -32.67     | Peak   |
| 2 | 8840.473    | 12.33      | 38.38      | 54.88  | 52.63      | 48.46  | 74.00      | -25.54     | Peak   |
| 3 | 13249.930   | 15.91      | 40.15      | 53.88  | 48.03      | 50.21  | 74.00      | -23.79     | Peak   |
| 4 | 14533.910   | 16.36      | 40.20      | 54.10  | 47.87      | 50.33  | 74.00      | -23.67     | Peak   |
| 5 | 16939.940   | 19.22      | 38.68      | 53.89  | 47.13      | 51.14  | 74.00      | -22.86     | Peak   |
| 6 | pp17896.250 | 18.87      | 41.97      | 54.26  | 45.79      | 52.37  | 74.00      | -21.63     | Peak   |

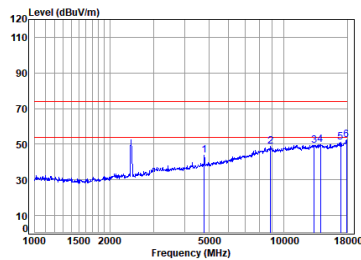
11n\_40M\_TX\_CH\_03\_Vertical



Condition: 3m VERTICAL  
Job No : 05587AT  
Mode : 2422 TX RSE  
: 2.4G Wi-Fi 11N40

|   | Freq        | Cable Loss | Ant Factor | Preamp | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|-------------|------------|------------|--------|------------|--------|------------|------------|--------|
|   | MHz         | dB         | dB/m       | dB     | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 4804.000    | 8.90       | 32.62      | 55.92  | 62.29      | 47.89  | 74.00      | -26.11     | Peak   |
| 2 | 8943.274    | 12.19      | 38.49      | 54.76  | 52.03      | 47.95  | 74.00      | -26.05     | Peak   |
| 3 | 11237.330   | 14.30      | 39.46      | 53.43  | 48.88      | 49.21  | 74.00      | -24.79     | Peak   |
| 4 | 13365.320   | 15.79      | 40.40      | 53.91  | 48.07      | 50.35  | 74.00      | -23.65     | Peak   |
| 5 | 16891.040   | 19.64      | 38.60      | 53.88  | 46.93      | 51.29  | 74.00      | -22.71     | Peak   |
| 6 | pp17844.590 | 19.02      | 41.56      | 54.24  | 45.78      | 52.12  | 74.00      | -21.88     | Peak   |

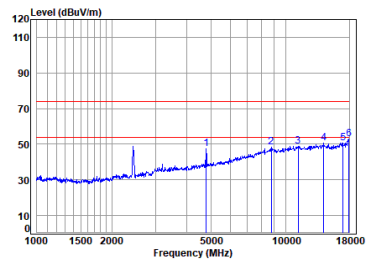
11n\_40M\_TX\_CH\_06\_Horizontal



Condition: 3m HORIZONTAL  
Job No : 05587AT  
Mode : 2437 TX RSE  
: 2.4G Wi-Fi 11N40

|   | Freq        | Cable Loss | Ant Factor | Preamp | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|-------------|------------|------------|--------|------------|--------|------------|------------|--------|
|   | MHz         | dB         | dB/m       | dB     | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 4804.000    | 8.90       | 32.62      | 55.92  | 58.30      | 43.90  | 74.00      | -30.10     | Peak   |
| 2 | 8840.473    | 12.33      | 38.38      | 54.88  | 53.14      | 48.97  | 74.00      | -25.03     | Peak   |
| 3 | 13288.280   | 15.99      | 40.19      | 53.89  | 47.11      | 49.40  | 74.00      | -24.60     | Peak   |
| 4 | 14038.450   | 16.47      | 40.52      | 54.10  | 46.93      | 49.82  | 74.00      | -24.18     | Peak   |
| 5 | 16939.940   | 19.22      | 38.68      | 53.89  | 47.01      | 51.02  | 74.00      | -22.98     | Peak   |
| 6 | pp17896.250 | 18.87      | 41.97      | 54.26  | 45.83      | 52.41  | 74.00      | -21.59     | Peak   |

11n\_40M\_TX\_CH\_06\_Vertical

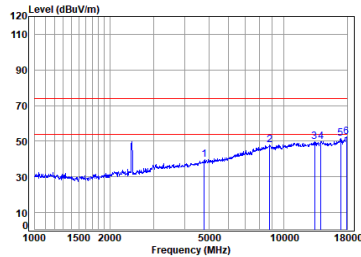


Condition: 3m VERTICAL  
Job No : 05587AT  
Mode : 2437 TX RSE  
: 2.4G Wi-Fi 11N40

|   | Freq        | Cable Loss | Ant Factor | Preamp | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|-------------|------------|------------|--------|------------|--------|------------|------------|--------|
|   | MHz         | dB         | dB/m       | dB     | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 4804.000    | 8.90       | 32.62      | 55.92  | 61.80      | 47.40  | 74.00      | -26.60     | Peak   |
| 2 | 8738.852    | 12.11      | 38.30      | 55.00  | 52.83      | 48.24  | 74.00      | -25.76     | Peak   |
| 3 | 11204.900   | 14.25      | 39.50      | 53.44  | 48.74      | 49.05  | 74.00      | -24.95     | Peak   |
| 4 | 14242.800   | 16.83      | 40.46      | 54.10  | 47.32      | 50.51  | 74.00      | -23.49     | Peak   |
| 5 | 16988.970   | 18.45      | 38.78      | 53.90  | 47.50      | 50.83  | 74.00      | -23.17     | Peak   |
| 6 | pp17948.050 | 18.75      | 42.29      | 54.28  | 46.19      | 52.95  | 74.00      | -21.05     | Peak   |



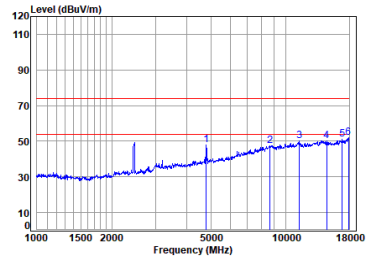
11n\_40M\_TX\_CH\_09\_Horizontal



Condition: 3m HORIZONTAL  
Job No : 05587AT  
Mode : 2452 TX RSE  
: 2.4G Wi-Fi 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 | 4804.000    | 8.90       | 32.62      | 55.92         | 54.08      | 39.68  | 74.00      | -34.32     | Peak   |
| 2 | 8789.516    | 12.33      | 38.30      | 54.94         | 52.02      | 47.71  | 74.00      | -26.29     | Peak   |
| 3 | 13326.750   | 15.92      | 40.28      | 53.90         | 47.42      | 49.72  | 74.00      | -24.28     | Peak   |
| 4 | 14119.830   | 16.40      | 40.42      | 54.10         | 47.07      | 49.79  | 74.00      | -24.21     | Peak   |
| 5 | 16939.940   | 19.22      | 38.68      | 53.89         | 47.35      | 51.36  | 74.00      | -22.64     | Peak   |
| 6 | pp17896.250 | 18.87      | 41.97      | 54.26         | 45.74      | 52.32  | 74.00      | -21.68     | Peak   |

11n\_40M\_TX\_CH\_09\_Vertical



Condition: 3m VERTICAL  
Job No : 05587AT  
Mode : 2452 TX RSE  
: 2.4G Wi-Fi 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 | 4804.000    | 8.90       | 32.62      | 55.92         | 62.30      | 47.90  | 74.00      | -26.10     | Peak   |
| 2 | 8663.404    | 11.91      | 38.23      | 55.09         | 52.61      | 47.66  | 74.00      | -26.34     | Peak   |
| 3 | 11335.190   | 14.29      | 39.36      | 53.40         | 49.86      | 50.11  | 74.00      | -23.89     | Peak   |
| 4 | 14618.170   | 16.62      | 40.20      | 54.10         | 47.53      | 50.25  | 74.00      | -23.75     | Peak   |
| 5 | 16891.040   | 19.64      | 38.60      | 53.88         | 46.65      | 51.01  | 74.00      | -22.99     | Peak   |
| 6 | pp17896.250 | 18.87      | 41.97      | 54.26         | 45.61      | 52.19  | 74.00      | -21.81     | Peak   |



### 7.5 Conducted Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)  
 Test Method: ANSI C63.10 (2020) Section 11.9.2  
 Test Engineer: Linvo Ding

Limit:

| Frequency range(MHz) | Output power of the intentional radiator(watt)         |
|----------------------|--------------------------------------------------------|
| 902-928              | 1 for $\geq 50$ hopping channels                       |
|                      | 0.25 for $25 \leq$ hopping channels $< 50$             |
|                      | 1 for digital modulation                               |
| 2400-2483.5          | 1 for $\geq 75$ 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

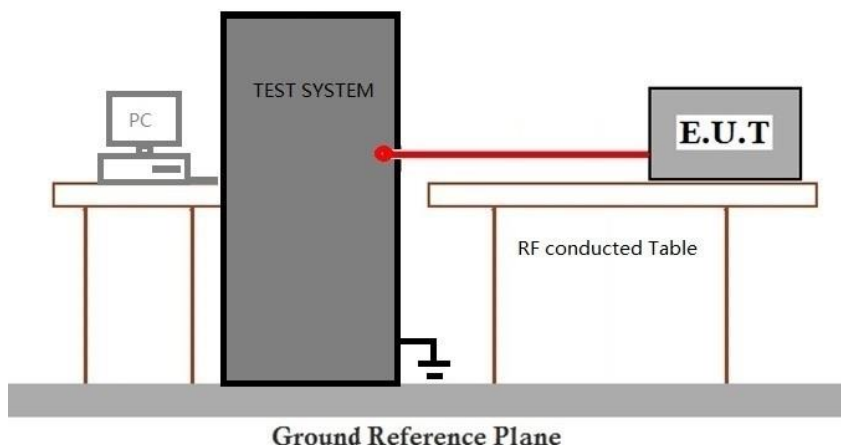
Operating Environment:

Temperature: 19.9 °C Humidity: 72.3 % RH Atmospheric Pressure: 1020 mbar

#### 7.5.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                                                                              |
|-----------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------|
| Final test            | 03        | TX mode_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report. |

#### 7.5.3 Test Setup Diagram





## SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/2

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### 7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Testing & Analysis Laboratory

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## 8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2512005587AT

## 9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2512005587AT



## 10 Appendix

### 1. Duty Cycle

#### 1.1 Test Result

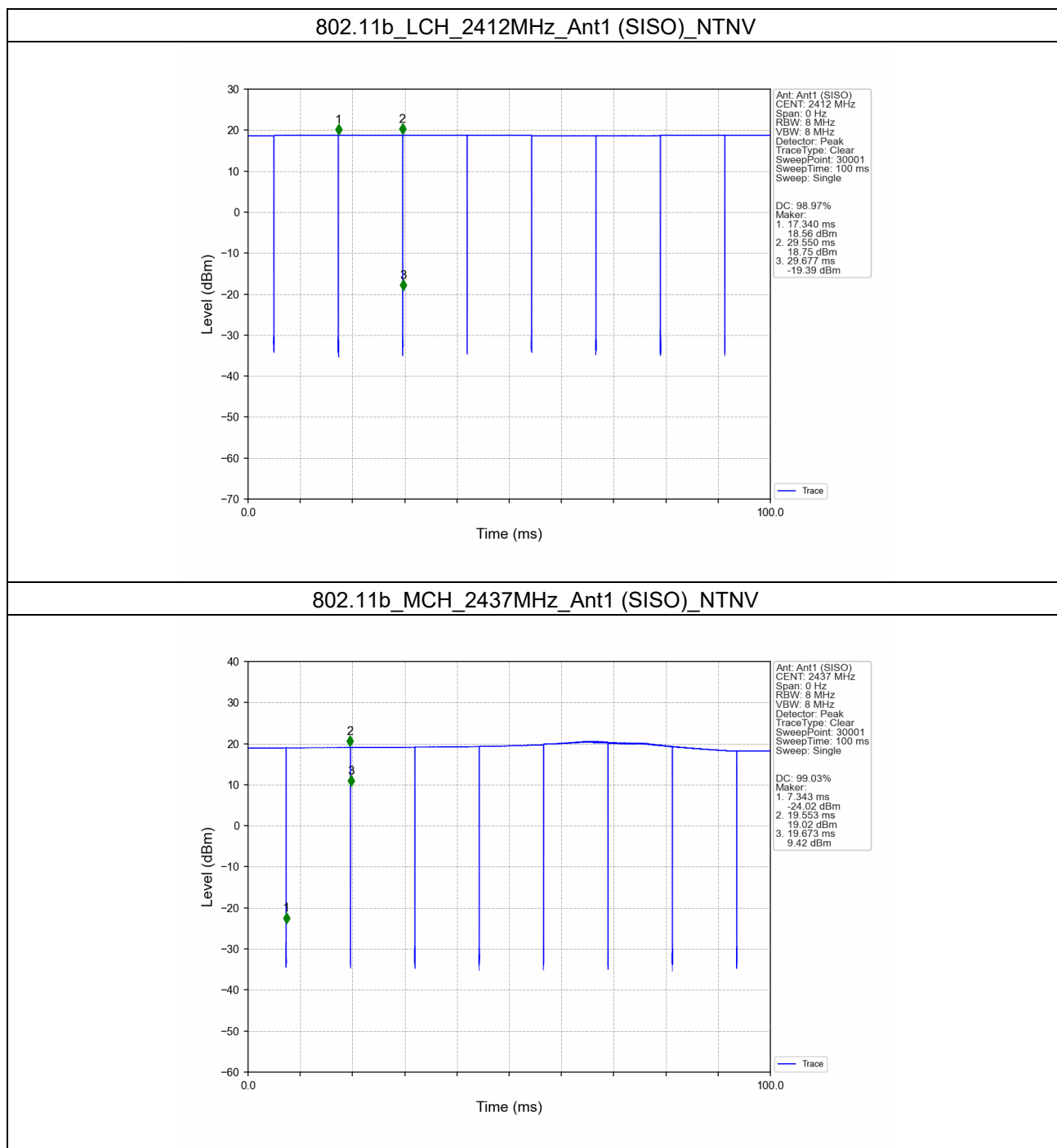
##### 1.1.1 Ant1

| Ant1           |         |                 |           |             |                |                                   |                       |
|----------------|---------|-----------------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| Mode           | TX Type | Frequency (MHz) | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 802.11b        | SISO    | 2412            | 12.210    | 12.337      | 98.97          | 0.04                              | 0.08                  |
|                |         | 2437            | 12.210    | 12.330      | 99.03          | 0.04                              | 0.08                  |
|                |         | 2462            | 12.210    | 12.473      | 97.89          | 0.09                              | 1.22                  |
| 802.11g        | SISO    | 2412            | 2.030     | 2.065       | 98.31          | 0.07                              | 0.04                  |
|                |         | 2437            | 2.030     | 2.065       | 98.31          | 0.07                              | 0.00                  |
|                |         | 2462            | 2.030     | 2.065       | 98.31          | 0.07                              | 0.03                  |
| 802.11n (HT20) | SISO    | 2412            | 1.890     | 1.925       | 98.18          | 0.08                              | 0.03                  |
|                |         | 2437            | 1.890     | 1.925       | 98.18          | 0.08                              | 0.03                  |
|                |         | 2462            | 1.890     | 1.925       | 98.18          | 0.08                              | 0.03                  |
| 802.11n (HT40) | SISO    | 2422            | 0.929     | 0.979       | 94.89          | 0.23                              | 0.03                  |
|                |         | 2437            | 0.929     | 0.979       | 94.89          | 0.23                              | 0.03                  |
|                |         | 2452            | 0.929     | 0.979       | 94.89          | 0.23                              | 0.03                  |



### 1.2 Test Graph

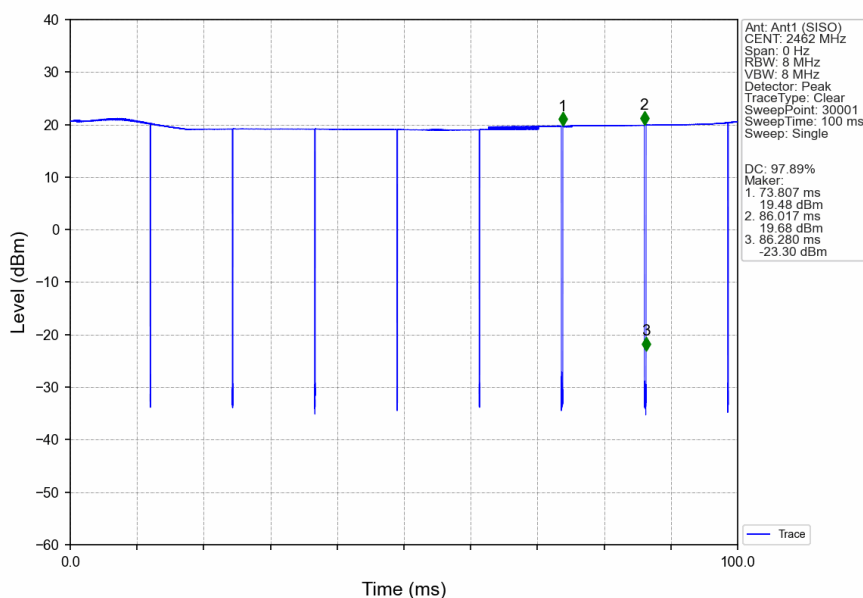
#### 1.2.1 Ant1



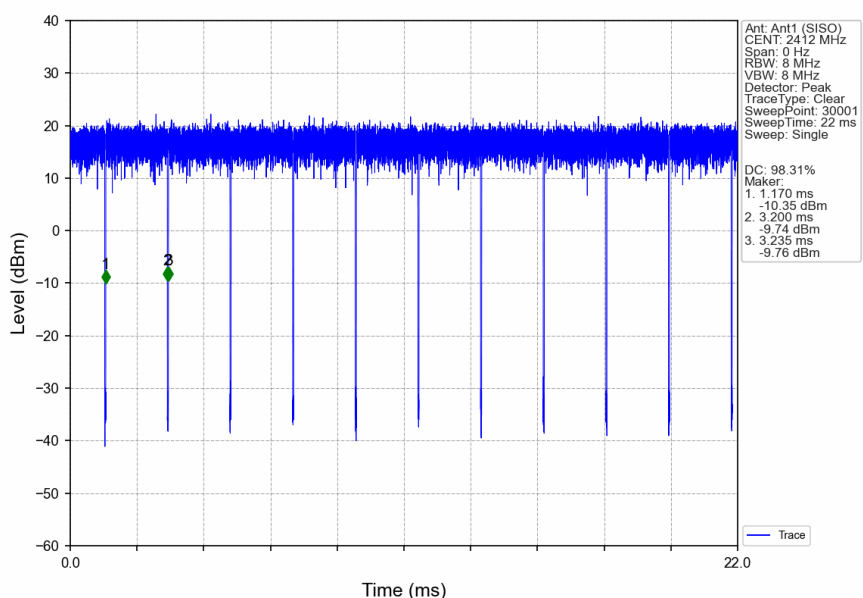
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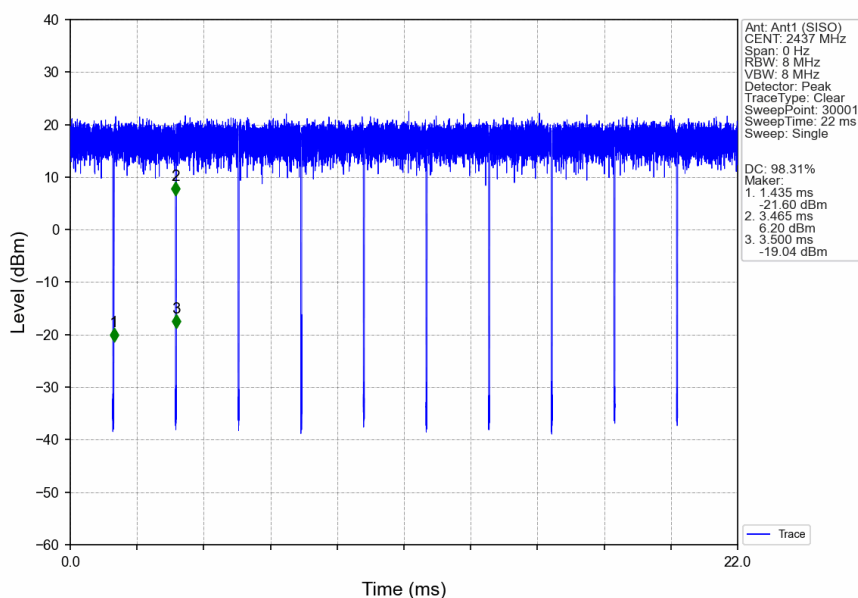
### 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



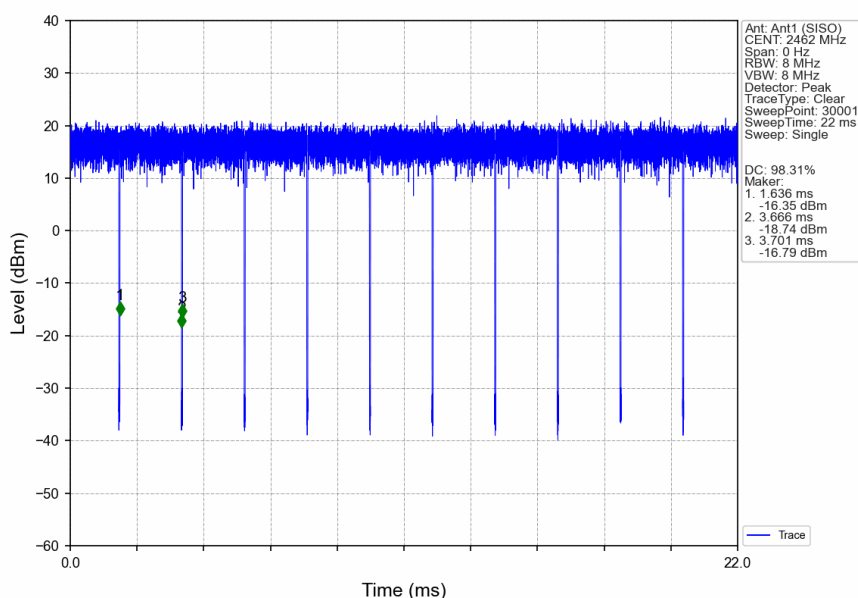
### 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



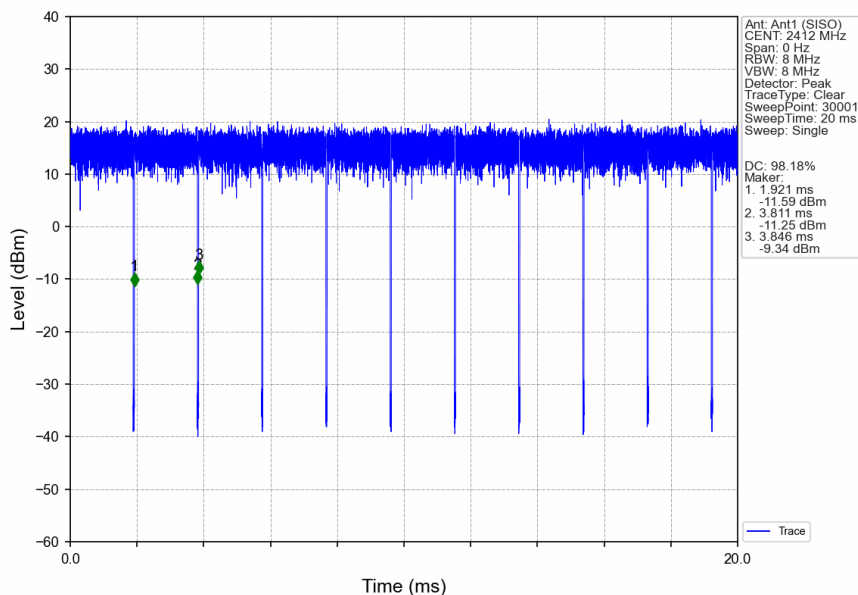
### 802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



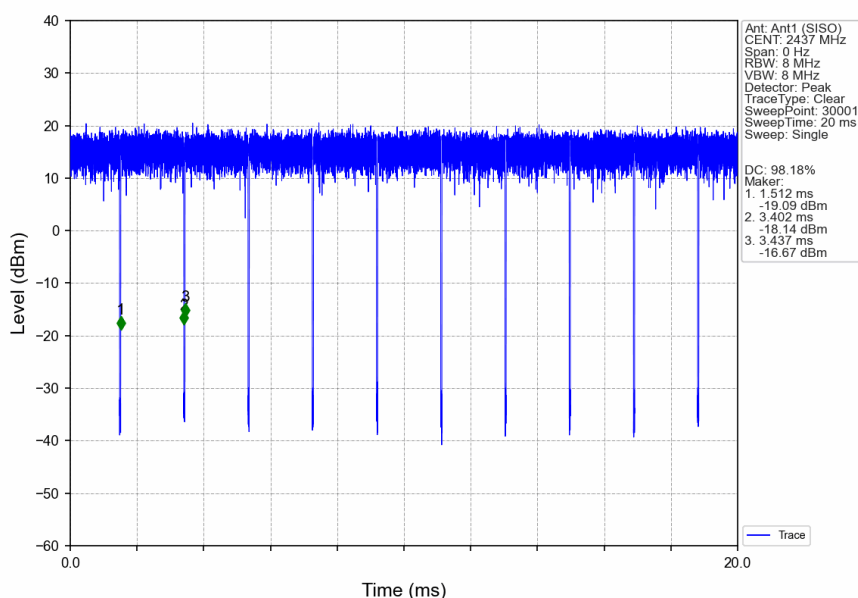
### 802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



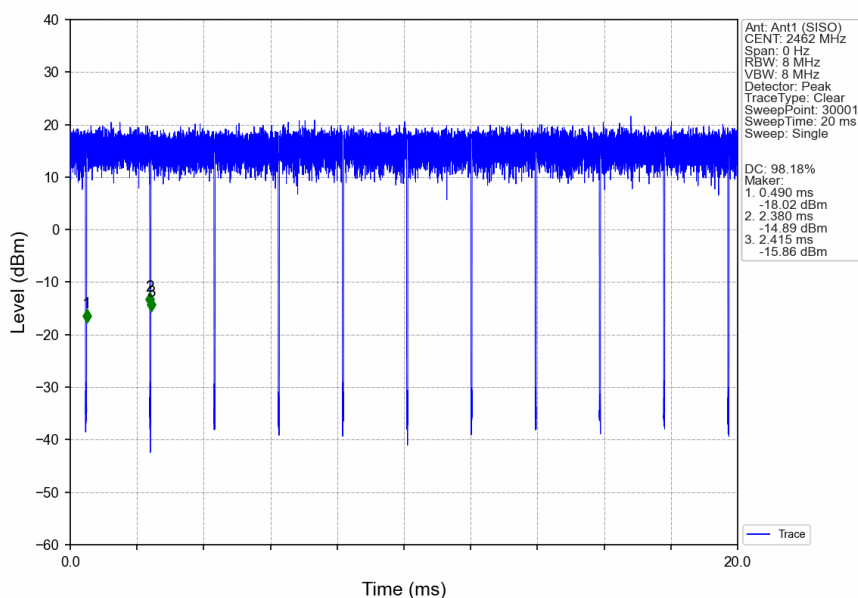
### 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



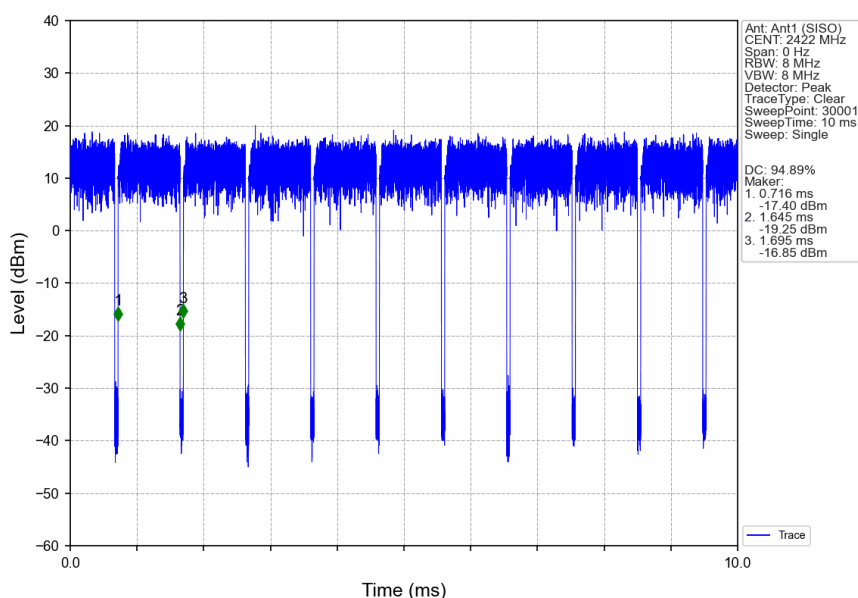
### 802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



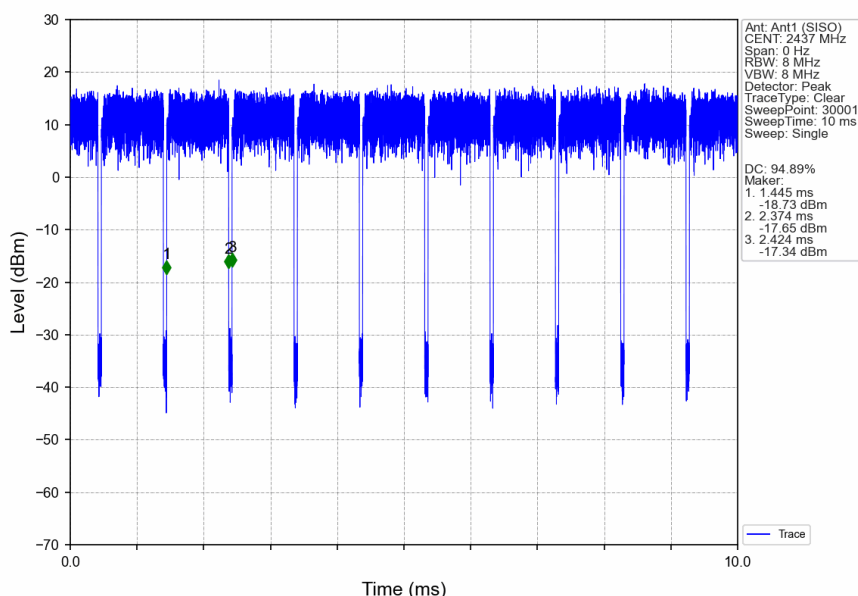
### 802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



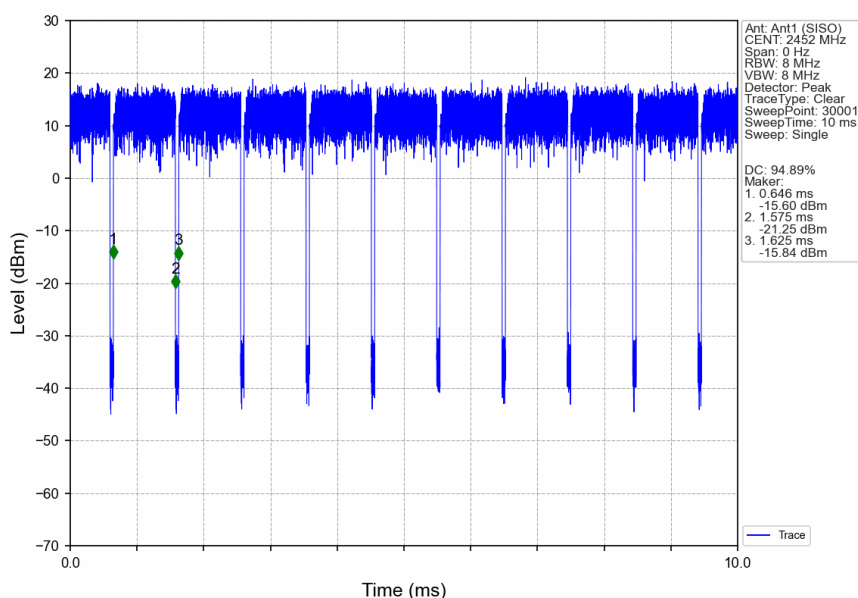
### 802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



### 802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



### 802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV



## 2. Maximum Conducted Output Power

### 2.1 Test Result

#### 2.1.1 Power

| Mode           | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) |       | Verdict |
|----------------|---------|-----------------|----------------------------------------------|-------|---------|
|                |         |                 | ANT1                                         | Limit |         |
| 802.11b        | SISO    | 2412            | 15.72                                        | <=30  | Pass    |
|                |         | 2437            | 16.25                                        | <=30  | Pass    |
|                |         | 2462            | 16.02                                        | <=30  | Pass    |
| 802.11g        | SISO    | 2412            | 15.77                                        | <=30  | Pass    |
|                |         | 2437            | 15.88                                        | <=30  | Pass    |
|                |         | 2462            | 15.50                                        | <=30  | Pass    |
| 802.11n (HT20) | SISO    | 2412            | 15.09                                        | <=30  | Pass    |
|                |         | 2437            | 14.51                                        | <=30  | Pass    |
|                |         | 2462            | 14.87                                        | <=30  | Pass    |
| 802.11n (HT40) | SISO    | 2422            | 14.97                                        | <=30  | Pass    |
|                |         | 2437            | 15.01                                        | <=30  | Pass    |
|                |         | 2452            | 15.37                                        | <=30  | Pass    |

Note1: Antenna Gain: Ant1: 1.52dBi;

- End of the Report -