

RADIO TEST REPORT FCC ID: 2AOKUTABLET5

Product: Tablet Trade Mark: HOTWAV Model No.: TAB R5 Family Model: P2201, P2202, P2201S, P2202S, TAB R5S, TAB R6, TAB R6S Report No.: STR221021003001E Issue Date: Nov 30, 2022

Prepared for

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Prepared by

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1 TEST RESULT CERTIFICATION

| Applicant's name: | SHENZHEN TUGAO INTELLIGENT CO.,LTD |
|------------------------------|--|
| Address: | 8th Floor, Bldg A, Jinggang Science&Technology Park, Fuyong, Bao'an District, Shenzhen, China |
| Manufacturer's Name: | SHENZHEN TUGAO INTELLIGENT CO.,LTD |
| Address: | 8th Floor, Bldg A, Jinggang Science&Technology Park, Fuyong, Bao'an District, Shenzhen, China |
| Product description | |
| Product name: | Tablet |
| Model and/or type reference: | TAB R5 |
| Family Model | P2201, P2202, P2201S, P2202S, TAB R5S, TAB R6, TAB R6S |
| Test Sample Number | T221021001R001 |
| · · | 1 |

Measurement Procedure Used:

APPLICABLE STANDARDS

| STANDARD/ TEST PROCEDURE | TEST RESULT |
|---|-------------|
| FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C ANSI C63.10-2013 | Complied |

This device described above has been tested by Shenzhen NTEK Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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The test results of this report relate only to the tested sample identified in this report.

Date of Test

Testing Engineer

Authorized Signatory

(Alex Li)

Oct 21, 2022 ~ Nov 30, 2022

(Marv Hu)

HU



| FCC Part15 (15.247), Subpart C | | | |
|--------------------------------|--------------------------------|---------|--------|
| Standard Section | Test Item | Verdict | Remark |
| 15.207 | Conducted Emission | PASS | |
| 15.209 (a) 15.205 (a) | Radiated Spurious Emission | PASS | |
| 15.247(a)(1) | Hopping Channel Separation | PASS | |
| 15.247(b)(1) | Peak Output Power | PASS | |
| 15.247(a)(iii) | Number of Hopping Frequency | PASS | |
| 15.247(a)(iii) | Dwell Time | PASS | |
| 15.247(a)(1) | Bandwidth | PASS | |
| 15.247 (d) | Band Edge Emission | PASS | |
| 15.247 (d) | Spurious RF Conducted Emission | PASS | |
| 15.203 | Antenna Requirement | PASS | |

Remark:

 "N/A" denotes test is not applicable in this Test Report.
 All test items were verified and recorded according to the standards and without any deviation during the test.



3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

| Site Description | |
|------------------|--|
| CNAS-Lab. | : The Certificate Registration Number is L5516. |
| IC-Registration | The Certificate Registration Number is 9270A. |
| | CAB identifier:CN0074 |
| FCC- Accredited | Test Firm Registration Number: 463705. |
| | Designation Number: CN1184 |
| A2LA-Lab. | The Certificate Registration Number is 4298.01 |
| | This laboratory is accredited in accordance with the recognized |
| | International Standard ISO/IEC 17025:2005 General requirements for |
| | the competence of testing and calibration laboratories. |
| | This accreditation demonstrates technical competence for a defined |
| | scope and the operation of a laboratory quality management system |
| | (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009). |
| | : Shenzhen NTEK Testing Technology Co., Ltd. |
| Site Location | : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang |
| | Street, Bao'an District, Shenzhen 518126 P.R. China. |

3.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y\pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

| No. | Item | Uncertainty |
|-----|-------------------------------------|-------------|
| 1 | Conducted Emission Test | ±2.80dB |
| 2 | RF power, conducted | ±0.16dB |
| 3 | Spurious emissions, conducted | ±0.21dB |
| 4 | All emissions, radiated(30MHz~1GHz) | ±2.64dB |
| 5 | All emissions, radiated(1GHz~6GHz) | ±2.40dB |
| 6 | All emissions, radiated(>6GHz) | ±2.52dB |
| 7 | Temperature | ±0.5°C |
| 8 | Humidity | ±2% |
| 9 | All emissions, radiated(9KHz~30MHz) | ±6dB |



4 GENERAL DESCRIPTION OF EUT

| Product Feature and Specification | | |
|-----------------------------------|--|--|
| Equipment | Tablet | |
| Trade Mark | HOTWAV | |
| FCC ID | 2AOKUTABLET5 | |
| Model No. | TAB R5 | |
| Family Model | P2201, P2202, P2201S, P2202S, TAB R5S, TAB R6, TAB R6S | |
| Model Difference | All models are the same circuit and RF module, except the model name and colors. | |
| Operating Frequency | 2402MHz~2480MHz | |
| Modulation | GFSK, π/4-DQPSK, 8-DPSK | |
| Number of Channels | 79 Channels | |
| Antenna Type | PIFA Antenna | |
| Antenna Gain | 0.26 dBi | |
| Adapter | Model: HJ-0502000W2-US Input: 100-240V~50/60Hz 0.3A Output: 5.0V2.0A 10.0W | |
| Battery | DC 3.85V, 15600mAh, 60.06Wh | |
| Power supply | DC 3.85V from battery or DC 5V from Adapter. | |
| HW Version | TP717_MAIN_PCB_V1.2A | |
| SW Version | HOTWAV_TAB R5_V3.0_20221115 | |

Note 1: Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.

Note 2: The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.



| Certificate #4298.01 Revision History | | | |
|--|---------|-------------------------|--------------|
| Report No. | Version | Description | Issued Date |
| STR221021003001E | Rev.01 | Initial issue of report | Nov 30, 2022 |
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5 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (1Mbps for GFSK modulation; 2Mbps for π /4-DQPSK modulation; 3Mbps for 8-DPSK modulation) were used for all test.

The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement -X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

Carrier Frequency and Channel list:

| Channel | Frequency(MHz) |
|---------|----------------|
| 0 | 2402 |
| 1 | 2403 |
| | |
| 39 | 2441 |
| 40 | 2442 |
| | |
| 77 | 2479 |
| 78 | 2480 |

Note: fc=2402MHz+k×1MHz k=0 to 78

The following summary table is showing all test modes to demonstrate in compliance with the standard.

| For AC Conducted Emission | | | |
|-----------------------------|--|--|--|
| Final Test Mode Description | | | |
| Mode 1 normal link mode | | | |
| | | | |

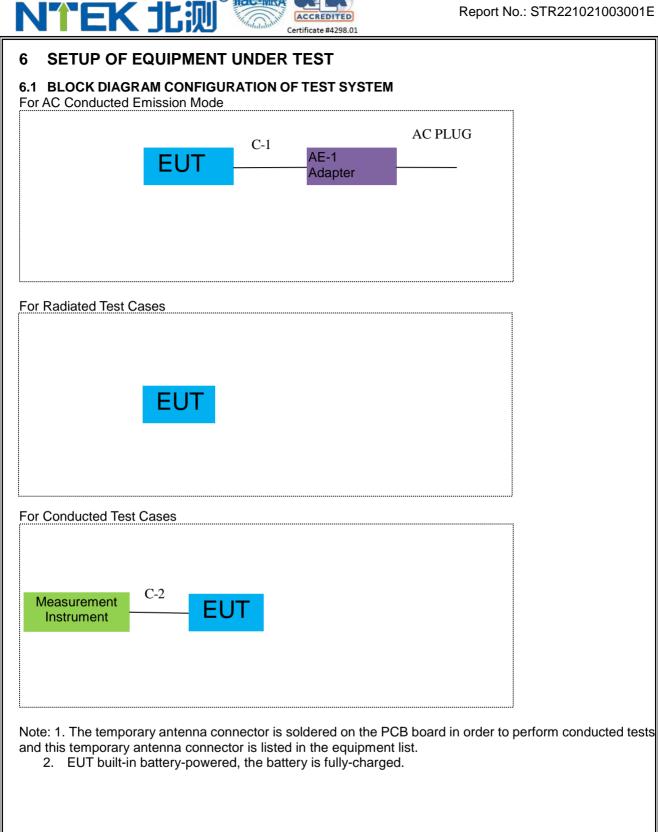
Note: AC power line Conducted Emission was tested under maximum output power.

| | For Radiated Test Cases | | |
|-----------------|-------------------------|--|--|
| Final Test Mode | Description | | |
| Mode 1 | normal link mode | | |
| Mode 2 | CH00(2402MHz) | | |
| Mode 3 | CH39(2441MHz) | | |
| Mode 4 | CH78(2480MHz) | | |

Note: For radiated test cases, the worst mode data rate 3Mbps was reported only, because this data rate has the highest RF output power at preliminary tests, and no other significantly frequencies found in conducted spurious emission.

| For Conducted Test Cases | | |
|--------------------------|---------------|--|
| Final Test Mode | Description | |
| Mode 2 | CH00(2402MHz) | |
| Mode 3 | CH39(2441MHz) | |
| Mode 4 | CH78(2480MHz) | |
| Mode 5 | Hopping mode | |

Note: The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.





6.2 SUPPORT EQUIPMENT

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| ltom | Fauinment | Madal/Tyraa Na | Series No. | Nata |
|------|-----------|-----------------|------------|-------------|
| Item | Equipment | Model/Type No. | Series No. | Note |
| AE-1 | Adapter | HJ-0502000W2-US | N/A | Peripherals |
| | | | | |
| | | | | |
| | | | | |

| Item | Cable Type | Shielded Type | Ferrite Core | Length |
|------|------------|---------------|--------------|--------|
| C-1 | USB Cable | YES | NO | 1.0m |
| C-2 | RF Cable | YES | NO | 0.1m |
| | | | | |
| | | | | |

Notes:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in [Length] column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

| | | estequipment | | | | | |
|------|---|-----------------|-----------------|-------------------|------------------|---------------------|---------------------------|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until | Calibrati on period |
| 1 | Spectrum Analyzer | Aglient | E4407B | MY45108040 | 2022.04.01 | 2023.03.31 | 1 year |
| 2 | Spectrum Analyzer | Agilent | N9020A | MY49100060 | 2022.04.01 | 2023.03.31 | 1 year |
| 3 | Spectrum Analyzer | R&S | FSV40 | 101417 | 2022.06.16 | 2023.06.15 | 1 year |
| 4 | Test Receiver | R&S | ESPI7 | 101318 | 2022.04.06 | 2023.04.05 | 1 year |
| 5 | Bilog Antenna | TESEQ | CBL6111D | 31216 | 2022.03.30 | 2023.03.29 | 1 year |
| 6 | 50Ω Coaxial Switch | Anritsu | MP59B | 6200983705 | 2020.05.11 | 2023.05.10 | 3 year |
| 7 | Horn Antenna | EM | EM-AH-1018 0 | 2011071402 | 2022.03.31 | 2023.03.30 | 1 year |
| 8 | Broadband Horn Antenna | SCHWARZBE CK | BBHA 9170 | 803 | 2022.06.17 | 2023.06.16 | 1 year |
| 9 | Amplifier | EMC | EMC051835 SE | 980246 | 2022.06.17 | 2023.06.16 | 1 year |
| 10 | Active Loop Antenna | SCHWARZBE CK | FMZB 1519 B | 055 | 2022.06.17 | 2023.06.16 | 1 year |
| 11 | Power Meter | DARE | RPR3006W | 15I00041SN 084 | 2022.06.16 | 2023.06.15 | 1 year |
| 12 | Test Cable (9KHz-30MHz) | N/A | R-01 | N/A | 2022.06.17 | 2025.06.16 | 3 year |
| 13 | Test Cable (30MHz-1GHz) | N/A | R-02 | N/A | 2022.06.17 | 2025.06.16 | 3 year |
| 14 | High Test Cable(1G-40G Hz) | N/A | R-03 | N/A | 2022.06.17 | 2025.06.16 | 3 year |
| 15 | High Test Cable(1G-40G Hz) | N/A | R-04 | N/A | 2022.06.17 | 2023.06.16 | 1 year |
| 16 | Filter | TRILTHIC | 2400MHz | 29 | 2022.04.01 | 2023.03.31 | 1 year |
| 17 | temporary antenna connector (Note) | NTS | R001 | N/A | N/A | N/A | N/A |

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test And this temporary antenna connector is listed within the instrument list



| AC Co | onduction Test | equipment | | | | | |
|-------|--------------------------------|-----------------|-----------|------------|------------------|---------------------|--------------------|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until | Calibration period |
| 1 | Test Receiver | R&S | ESCI | 101160 | 2022.04.06 | 2023.04.05 | 1 year |
| 2 | LISN | R&S | ENV216 | 101313 | 2022.04.06 | 2023.04.05 | 1 year |
| 3 | LISN | SCHWARZBE CK | NNLK 8129 | 8129245 | 2022.04.06 | 2023.04.05 | 1 year |
| 4 | 50Ω Coaxial Switch | ANRITSU CORP | MP59B | 6200983704 | 2020.05.11 | 2023.05.10 | 3 year |
| 5 | Test Cable (9KHz-30MH z) | N/A | C01 | N/A | 2020.05.11 | 2023.05.10 | 3 year |
| 6 | Test Cable (9KHz-30MH z) | N/A | C02 | N/A | 2020.05.11 | 2023.05.10 | 3 year |
| 7 | Test Cable (9KHz-30MH z) | N/A | C03 | N/A | 2020.05.11 | 2023.05.10 | 3 year |

Note: Each piece of equipment is scheduled for calibration once a year except the Aux Equipment & Test Cable which is scheduled for calibration every 2 or 3 years.



7 TEST REQUIREMENTS

7.1 CONDUCTED EMISSIONS TEST

7.1.1 Applicable Standard

According to FCC Part 15.207(a)

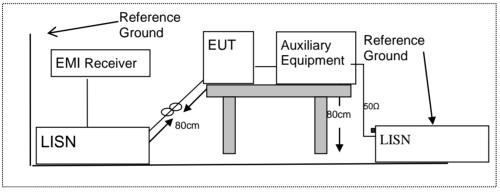
7.1.2 Conformance Limit

| | Conducted Emission Limit | | |
|----------------|--------------------------|---------|--|
| Frequency(MHz) | Quasi-peak | Average | |
| 0.15-0.5 | 66-56* | 56-46* | |
| 0.5-5.0 | 56 | 46 | |
| 5.0-30.0 | 60 | 50 | |

Note: 1. *Decreases with the logarithm of the frequency

- 2. The lower limit shall apply at the transition frequencies
 - 3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

7.1.3 Test Configuration



7.1.4 Test Procedure

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
- 2. The EUT was placed on a table which is 0.8m above ground plane.
- Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable
 may be terminated, if required, using the correct terminating impedance. The overall length shall not
 exceed 1 m.
- 6. LISN at least 80 cm from nearest part of EUT chassis.
- 7. The frequency range from 150KHz to 30MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
- 9. For the actual test configuration, please refer to the related Item -EUT Test Photos.

7.1.5 Test Results

Pass



7.1.6 Test Results

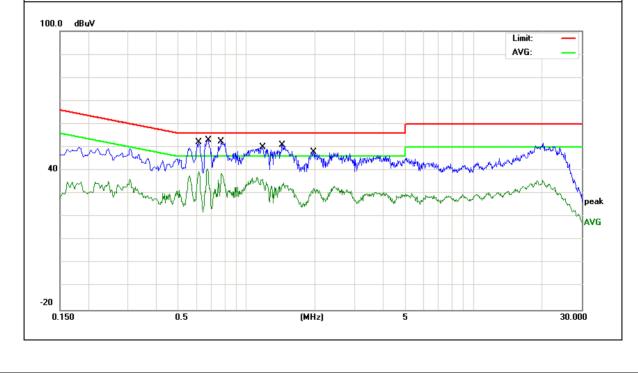
| EUT: | Tablet | Model Name : | TAB R5 |
|----------------|---------------------------------|--------------------|--------|
| Temperature: | 22 ℃ | Relative Humidity: | 57% |
| Pressure: | 1010hPa | Phase : | L |
| Test Voltage : | DC 5V from Adapter AC 120V/60Hz | Test Mode: | Mode 1 |

| Frequency | Reading Level | Correct Factor | Measure-ment | Limits | Margin | Domork |
|-----------|---------------|----------------|--------------|--------|--------|--------|
| (MHz) | (dBµV) | (dB) | (dBµV) | (dBµV) | (dB) | Remark |
| 0.6139 | 42.42 | 9.67 | 52.09 | 56.00 | -3.91 | QP |
| 0.6139 | 29.97 | 9.67 | 39.64 | 46.00 | -6.36 | AVG |
| 0.6780 | 43.40 | 9.67 | 53.07 | 56.00 | -2.93 | QP |
| 0.6780 | 31.20 | 9.67 | 40.87 | 46.00 | -5.13 | AVG |
| 0.7740 | 42.72 | 9.68 | 52.40 | 56.00 | -3.60 | QP |
| 0.7740 | 29.10 | 9.68 | 38.78 | 46.00 | -7.22 | AVG |
| 1.1818 | 40.32 | 9.68 | 50.00 | 56.00 | -6.00 | QP |
| 1.1818 | 26.49 | 9.68 | 36.17 | 46.00 | -9.83 | AVG |
| 1.4379 | 41.22 | 9.67 | 50.89 | 56.00 | -5.11 | QP |
| 1.4379 | 25.01 | 9.67 | 34.68 | 46.00 | -11.32 | AVG |
| 1.9739 | 38.15 | 9.68 | 47.83 | 56.00 | -8.17 | QP |
| 1.9739 | 22.66 | 9.68 | 32.34 | 46.00 | -13.66 | AVG |

Remark:

1. All readings are Quasi-Peak and Average values.

2. Factor = Insertion Loss + Cable Loss.





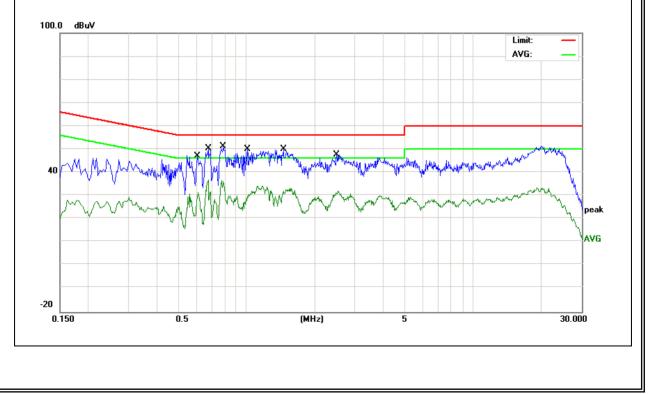
| EUT: | Tablet | Model Name : | TAB R5 |
|----------------|---------------------------------|--------------------|--------|
| Temperature: | 25 ℃ | Relative Humidity: | 62% |
| Pressure: | 1010hPa | Phase : | Ν |
| Test Voltage : | DC 5V from Adapter AC 120V/60Hz | Test Mode: | Mode 1 |

| Frequency | Reading Level | Correct Factor | Measure-ment | Limits | Margin | |
|-----------|---------------|----------------|--------------|--------|--------|--------|
| (MHz) | (dBµV) | (dB) | (dBµV) | (dBµV) | (dB) | Remark |
| 0.6059 | 37.44 | 9.67 | 47.11 | 56.00 | -8.89 | QP |
| 0.6059 | 21.88 | 9.67 | 31.55 | 46.00 | -14.45 | AVG |
| 0.6780 | 40.74 | 9.67 | 50.41 | 56.00 | -5.59 | QP |
| 0.6780 | 27.25 | 9.67 | 36.92 | 46.00 | -9.08 | AVG |
| 0.7900 | 41.49 | 9.68 | 51.17 | 56.00 | -4.83 | QP |
| 0.7900 | 27.00 | 9.68 | 36.68 | 46.00 | -9.32 | AVG |
| 1.0100 | 40.42 | 9.69 | 50.11 | 56.00 | -5.89 | QP |
| 1.0100 | 20.80 | 9.69 | 30.49 | 46.00 | -15.51 | AVG |
| 1.4539 | 40.41 | 9.67 | 50.08 | 56.00 | -5.92 | QP |
| 1.4539 | 22.95 | 9.67 | 32.62 | 46.00 | -13.38 | AVG |
| 2.4980 | 38.05 | 9.68 | 47.73 | 56.00 | -8.27 | QP |
| 2.4980 | 22.28 | 9.68 | 31.96 | 46.00 | -14.04 | AVG |

Remark:

1. All readings are Quasi-Peak and Average values.

2. Factor = Insertion Loss + Cable Loss.





7.2 RADIATED SPURIOUS EMISSION

7.2.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and ANSI C63.10-2013

7.2.2 Conformance Limit

According to FCC Part 15.247(d): 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)). According to FCC Part15.205, Restricted bands

| According to FOC Fart 15.200, Restricted barros | | | | |
|---|---------------------|---------------|-------------|--|
| MHz | MHz | MHz | GHz | |
| 0.090-0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.15 | |
| 0.495-0.505 | 16.69475-16.69525 | 608-614 | 5.35-5.46 | |
| 2.1735-2.1905 | 16.80425-16.80475 | 960-1240 | 7.25-7.75 | |
| 4.125-4.128 | 25.5-25.67 | 1300-1427 | 8.025-8.5 | |
| 4.17725-4.17775 | 37.5-38.25 | 1435-1626.5 | 9.0-9.2 | |
| 4.20725-4.20775 | 73-74.6 | 1645.5-1646.5 | 9.3-9.5 | |
| 6.215-6.218 | 74.8-75.2 | 1660-1710 | 10.6-12.7 | |
| 6.26775-6.26825 | 123-138 | 2200-2300 | 14.47-14.5 | |
| 8.291-8.294 | 149.9-150.05 | 2310-2390 | 15.35-16.2 | |
| 8.362-8.366 | 156.52475-156.52525 | 2483.5-2500 | 17.7-21.4 | |
| 8.37625-8.38675 | 156.7-156.9 | 2690-2900 | 22.01-23.12 | |
| 8.41425-8.41475 | 162.0125-167.17 | 3260-3267 | 23.6-24.0 | |
| 12.29-12.293 | 167.72-173.2 | 3332-3339 | 31.2-31.8 | |
| 12.51975-12.52025 | 240-285 | 3345.8-3358 | 36.43-36.5 | |
| 12.57675-12.57725 | 322-335.4 | 3600-4400 | (2) | |
| 13.36-13.41 | | | | |

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

| Restricted Frequency(MHz) | Field Strength (µV/m) | Field Strength (dBµV/m) | Measurement Distance |
|------------------------------|-----------------------|-------------------------|----------------------|
| 0.009~0.490 | 2400/F(KHz) | 20 log (uV/m) | 300 |
| 0.490~1.705 | 24000/F(KHz) | 20 log (uV/m) | 30 |
| 1.705~30.0 | 30 | 29.5 | 30 |
| 30-88 | 100 | 40 | 3 |
| 88-216 | 150 | 43.5 | 3 |
| 216-960 | 200 | 46 | 3 |
| Above 960 | 500 | 54 | 3 |

Limits of Radiated Emission Measurement(Above 1000MHz)

| Frequency(MHz) | Class B (dBuV/m) (at 3M) | | |
|----------------|--------------------------|---------|--|
| Frequency(MHz) | PEAK | AVERAGE | |
| Above 1000 | 74 | 54 | |

Remark :1. Emission level in dBuV/m=20 log (uV/m)

Measurement was performed at an antenna to the closed point of EUT distance of meters.
 For Frequency 9kHz~30MHz:

Distance extrapolation factor =40log(Specific distance/ test distance)(dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor.

For Frequency above 30MHz:

Distance extrapolation factor =20log(Specific distance/ test distance)(dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor.

NTEK 北测 🖉

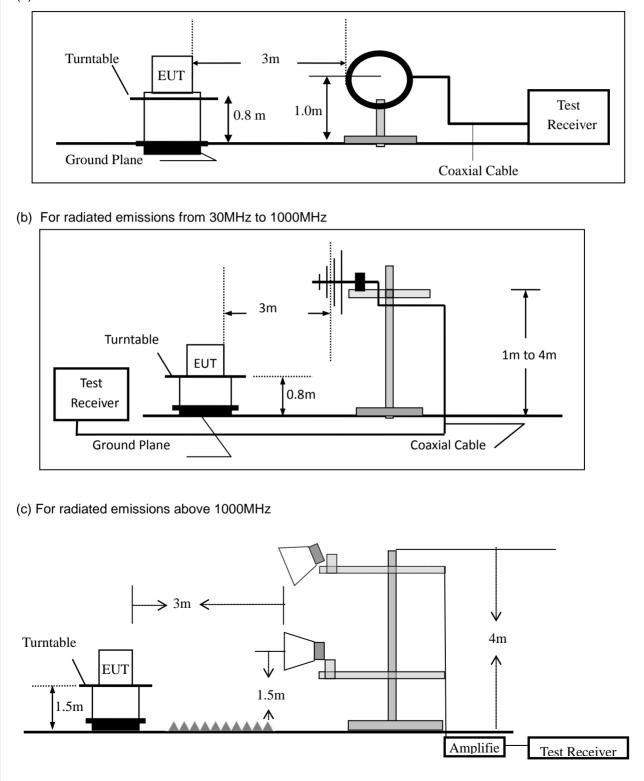
7.2.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

ACCREDITED Certificate #4298.01

7.2.4 Test Configuration

(a) For radiated emissions below 30MHz





7.2.5 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m.The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

| Spectrum Parameter | Setting |
|---------------------------------------|---|
| Attenuation | Auto |
| Start Frequency | 1000 MHz |
| Stop Frequency | 10th carrier harmonic |
| RB / VB (emission in restricted band) | 1 MHz / 1 MHz for Peak, 1 MHz / 1 MHz for Average |

| Receiver Parameter | Setting |
|------------------------|----------------------------------|
| Attenuation | Auto |
| Start ~ Stop Frequency | 9kHz~150kHz / RB 200Hz for QP |
| Start ~ Stop Frequency | 150kHz~30MHz / RB 9kHz for QP |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB 120kHz for QP |

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For the radiated emission test above 1GHz: Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- e. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- f. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- g. For the actual test configuration, please refer to the related Item –EUT Test Photos.
 - Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported



| During the radiated emission te | uring the radiated emission test, the Spectrum Analyzer was set with the following configurations: | | | | | | | | | |
|---------------------------------|--|----------------------|-----------------|--|--|--|--|--|--|--|
| Frequency Band (MHz) | Function | Resolution bandwidth | Video Bandwidth | | | | | | | |
| 30 to 1000 | QP | 120 kHz | 300 kHz | | | | | | | |
| Abaua 4000 | Peak | 1 MHz | 1 MHz | | | | | | | |
| Above 1000 | Average | 1 MHz | 1 MHz | | | | | | | |

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10*lg(100 [kHz]/narrower RBW [kHz])., the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

7.2.6 Test Results

■ Spurious Emission below 30MHz (9KHz to 30MHz)

| EUT: | Tablet | Model No.: | TAB R5 |
|--------------|-------------------|--------------------|---------|
| Temperature: | 20 °C | Relative Humidity: | 48% |
| Test Mode: | Mode2/Mode3/Mode4 | Test By: | Mary Hu |

| Freq. | Ant.Pol. | Emission L | .evel(dBuV/m) | Limit 3 | m(dBuV/m) | Over(dB) PK AV | | |
|-------|----------|------------|---------------|---------|-----------|-------------------|----|--|
| (MHz) | H/V | PK | AV | PK | AV | PK | AV | |
| | | | | | | | | |

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.



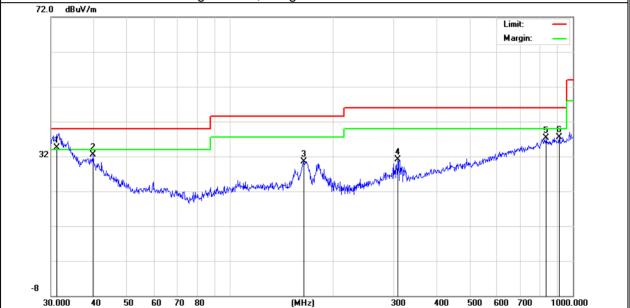
Spurious Emission below 1GHz (30MHz to 1GHz) All the modulation modes have been tested, and the worst result was

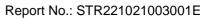
| All the modulation | All the modulation modes have been tested, and the worst result was report as below: | | | | | | | |
|--------------------|--|--------------------|--------|--|--|--|--|--|
| EUT: | Tablet | Model Name : | TAB R5 | | | | | |
| Temperature: | 25 ℃ | Relative Humidity: | 55% | | | | | |
| Pressure: | 1010hPa | Test Mode: | Mode 1 | | | | | |
| Test Voltage : | DC 3.85V | | | | | | | |

| Polar | Frequency | Meter Reading | | | Margin | Remark | |
|-------|-----------|------------------|-------|----------|----------|--------|----|
| (H/V) | (MHz) | (dBuV) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | |
| V | 31.2001 | 8.87 | 25.64 | 34.51 | 40.00 | -5.49 | QP |
| V | 39.8541 | 11.88 | 20.55 | 32.43 | 40.00 | -7.57 | QP |
| V | 164.3301 | 12.68 | 17.90 | 30.58 | 43.50 | -12.92 | QP |
| V | 308.9126 | 11.08 | 20.12 | 31.20 | 46.00 | -14.80 | QP |
| V | 836.2441 | 7.46 | 29.79 | 37.25 | 46.00 | -8.75 | QP |
| V | 912.8618 | 6.93 | 30.58 | 37.51 | 46.00 | -8.49 | QP |

Remark:

Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit







| Polar | Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Remarl |
|-------|--|------------------|--------------------|-------------------|-----------|-----------------------|--------|
| (H/V) | (MHz) | (dBuV) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | |
| Н | 30.7454 | 5.50 | 25.87 | 31.37 | 40.00 | -8.63 | QP |
| Н | 136.9391 | 5.72 | 18.90 | 24.62 | 43.50 | -18.88 | QP |
| Н | 247.6819 | 8.75 | 18.81 | 27.56 | 46.00 | -18.44 | QP |
| Н | 313.2760 | 13.92 | 20.40 | 34.32 | 46.00 | -11.68 | QP |
| Н | 729.3582 | 8.16 | 28.11 | 36.27 | 46.00 | -9.73 | QP |
| Н | 824.5968 | 8.58 | 29.30 | 37.88 | 46.00 | -8.12 | QP |
| 72.0 | dBuV/m | | | | | Limit: Margin: | |
| - | | | | | | | |
| - | | | | | | 5 % | |
| 32 3 | Thread for the start of the sta | | North March 1990 | M. Mahalan Marina | Munorman | wellow when white and | |
| 32 1 | The stand with the stand and the stand | | nor and a star way | WWWWWWWWW | Munomonum | Wy May Market William | |



| Spurious | Spurious Emission Above 1GHz (1GHz to 25GHz) | | | | | | | | | |
|----------------|--|---------------|-------------------|------------------|--------------------|---------------|--------|----------|--------|------------|
| EUT: | Tab | olet | | Mode | el No.: | | TAB F | ۶5 | | |
| Temperature: | : 20 ° | °C | | Relat | Relative Humidity: | | | 48% | | |
| Test Mode: | Мо | de2/Mode | e3/Mode4 | Test | By: | | Mary | Hu | | |
| All the modula | All the modulation modes have been tested, and the worst result was report as below: | | | | | | | | | |
| | | | | | | | | | | |
| Frequency | Read Level | Cable loss | Antenna Factor | Preamp Factor | Emission Level | Lin | nits | Margin | Remark | Comment |
| (MHz) | (dBµV) | (dB) | dB/m | (dB) | (dBµV/m) | (dBµ | ıV/m) | (dB) | | |
| | | | Low Chann | el (2402 M | Hz)(8-DPSł | ()Ab | ove 10 |) | | |
| 4804.58 | 64.59 | 5.21 | 35.59 | 44.30 | 61.09 | 74 | .00 | -12.91 | Pk | Vertical |
| 4804.58 | 43.27 | 5.21 | 35.59 | 44.30 | 39.77 | 54 | .00 | -14.23 | AV | Vertical |
| 7206.86 | 63.02 | 6.48 | 36.27 | 44.60 | 61.17 | 74 | .00 | -12.83 | Pk | Vertical |
| 7206.86 | 42.93 | 6.48 | 36.27 | 44.60 | 41.08 | 54 | .00 | -12.92 | AV | Vertical |
| 4804.35 | 61.14 | 5.21 | 35.55 | 44.30 | 57.60 | 74 | .00 | -16.40 | Pk | Horizontal |
| 4804.35 | 42.17 | 5.21 | 35.55 | 44.30 | 38.63 | 54 | .00 | -15.37 | AV | Horizontal |
| 7206.69 | 59.86 | 6.48 | 36.27 | 44.52 | 58.09 | 74 | .00 | -15.91 | Pk | Horizontal |
| 7206.69 | 41.79 | 6.48 | 36.27 | 44.52 | 40.02 | 54 | .00 | -13.98 | AV | Horizontal |
| | | | Mid Channe | el (2441 M | Hz)(8-DPSk | ()Abo | ove 1G | i | | |
| 4882.66 | 64.48 | 5.21 | 35.66 | 44.20 | 61.15 | 74 | .00 | -12.85 | Pk | Vertical |
| 4882.66 | 43.17 | 5.21 | 35.66 | 44.20 | 39.84 | 54 | .00 | -14.16 | AV | Vertical |
| 7323.18 | 63.65 | 7.10 | 36.50 | 44.43 | 62.82 | 74 | .00 | -11.18 | Pk | Vertical |
| 7323.18 | 42.89 | 7.10 | 36.50 | 44.43 | 42.06 | 54 | .00 | -11.94 | AV | Vertical |
| 4882.53 | 60.70 | 5.21 | 35.66 | 44.20 | 57.37 | 74 | .00 | -16.63 | Pk | Horizontal |
| 4882.53 | 42.87 | 5.21 | 35.66 | 44.20 | 39.54 | 54 | .00 | -14.46 | AV | Horizontal |
| 7324.77 | 59.44 | 7.10 | 36.50 | 44.43 | 58.61 | 74 | .00 | -15.39 | Pk | Horizontal |
| 7324.77 | 41.75 | 7.10 | 36.50 | 44.43 | 40.92 | | .00 | -13.08 | AV | Horizontal |
| | | | High Chann | el (2480 M | Hz)(8-DPSł | () Ab | ove 10 | 3 | r | |
| 4959.53 | 64.48 | 5.21 | 35.52 | 44.21 | 61.00 | 74 | .00 | -13.00 | Pk | Vertical |
| 4959.53 | 43.65 | 5.21 | 35.52 | 44.21 | 40.17 | 54 | .00 | -13.83 | AV | Vertical |
| 7439.63 | 60.43 | 7.10 | 36.53 | 44.60 | 59.46 | 74 | .00 | -14.54 | Pk | Vertical |
| 7439.63 | 43.67 | 7.10 | 36.53 | 44.60 | 42.70 | 54 | .00 | -11.30 | AV | Vertical |
| 4960.28 | 60.42 | 5.21 | 35.52 | 44.21 | 56.94 | 74 | .00 | -17.06 | Pk | Horizontal |
| 4960.28 | 40.66 | 5.21 | 35.52 | 44.21 | 37.18 | 54 | .00 | -16.82 | AV | Horizontal |
| 7440.50 | 59.63 | 7.10 | 36.53 | 44.60 | 58.66 | 74 | .00 | -15.34 | Pk | Horizontal |
| 7440.50 | 41.12 | 7.10 | 36.53 | 44.60 | 40.15 | 54 | .00 | -13.85 | AV | Horizontal |

Note:

(1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor (2)All other emissions more than 20dB below the limit.



| Spurious | Emission | in Restri | icted Band | 231 | 0-239 | 0MHz and | 2483. | .5-250 | 0MHz | | |
|--------------|------------------|---------------------|--|--------|-------------|-------------------|-------|--------|------------------|----------|-----------|
| EUT: | Tablet | | | | Mode | el No.: | | TAB | R5 | | |
| Temperature: | 20 °C | | | | Relat | ive Humidit | y: | 48% | | | |
| Test Mode: | Mode2/ M | de2/ Mode4 Test By: | | | | | | | Test By: Mary Hu | | |
| All the modu | lation mod | les have | ve been tested, and the worst result was | | | | | | ort as bel | ow: | |
| Frequency | Meter Reading | Cable Loss | Antenna Factor | | amp ctor | Emission Level | Lin | nits | Margin | Detector | Comment |
| (MHz) | (dBµV) | (dB) | dB/m | (d | B) | (dBµV/m) | (dBµ | V/m) | (dB) | Туре | |
| | | | 3N | /bps(a | 8-DP | SK)-Non-hop | oping | | | | |
| 2310.00 | 54.23 | 2.97 | 27.80 | 43 | .80 | 41.20 | 7 | 4 | -32.80 | Pk | Horizonta |
| 2310.00 | 44.88 | 2.97 | 27.80 | 43. | .80 | 31.85 | 5 | 4 | -22.15 | AV | Horizonta |
| 2310.00 | 53.21 | 2.97 | 27.80 | 43. | .80 | 40.18 | 7 | 4 | -33.82 | Pk | Vertical |
| 2310.00 | 42.54 | 2.97 | 27.80 | 43. | .80 | 29.51 | 5 | 4 | -24.49 | AV | Vertical |
| 2390.00 | 54.51 | 3.14 | 27.21 | 43. | .80 | 41.06 | 7 | 4 | -32.94 | Pk | Vertical |
| 2390.00 | 44.70 | 3.14 | 27.21 | 43. | .80 | 31.25 | 5 | 4 | -22.75 | AV | Vertical |
| 2390.00 | 53.83 | 3.14 | 27.21 | 43. | .80 | 40.38 | 7 | 4 | -33.62 | Pk | Horizonta |
| 2390.00 | 44.85 | 3.14 | 27.21 | 43. | .80 | 31.40 | 5 | 4 | -22.60 | AV | Horizonta |
| 2483.50 | 53.23 | 3.58 | 27.70 | 44. | .00 | 40.51 | 7 | 4 | -33.49 | Pk | Vertical |
| 2483.50 | 42.16 | 3.58 | 27.70 | 44. | .00 | 29.44 | 5 | 4 | -24.56 | AV | Vertical |
| 2483.50 | 54.27 | 3.58 | 27.70 | 44. | .00 | 41.55 | 7 | 4 | -32.45 | Pk | Horizonta |
| 2483.50 | 41.26 | 3.58 | 27.70 | 44. | .00 | 28.54 | 5 | 4 | -25.46 | AV | Horizonta |
| | | | | 3Mbp | s(8-D | PSK)-hoppi | ing | | | | |
| 2310.00 | 54.42 | 2.97 | 27.80 | 43. | .80 | 41.39 | 7 | 4 | -32.61 | Pk | Horizonta |
| 2310.00 | 41.97 | 2.97 | 27.80 | 43. | .80 | 28.94 | 5 | 4 | -25.06 | AV | Horizonta |
| 2310.00 | 54.62 | 2.97 | 27.80 | 43. | .80 | 41.59 | 7 | 4 | -32.41 | Pk | Vertical |
| 2310.00 | 44.60 | 2.97 | 27.80 | 43. | .80 | 31.57 | 5 | 4 | -22.43 | AV | Vertical |
| 2390.00 | 52.91 | 3.14 | 27.21 | 43. | .80 | 39.46 | 7 | 4 | -34.54 | Pk | Vertical |
| 2390.00 | 43.28 | 3.14 | 27.21 | 43 | .80 | 29.83 | 5 | 4 | -24.17 | AV | Vertical |
| 2390.00 | 53.84 | 3.14 | 27.21 | 43. | .80 | 40.39 | 7 | 4 | -33.61 | Pk | Horizonta |
| 2390.00 | 44.68 | 3.14 | 27.21 | 43. | .80 | 31.23 | 5 | 4 | -22.77 | AV | Horizonta |
| 2483.50 | 51.21 | 3.58 | 27.70 | 44. | .00 | 38.49 | 7 | 4 | -35.51 | Pk | Vertical |
| 2483.50 | 44.20 | 3.58 | 27.70 | 44. | .00 | 31.48 | 5 | 4 | -22.52 | AV | Vertical |
| 2483.50 | 51.96 | 3.58 | 27.70 | 44. | .00 | 39.24 | 7 | 4 | -34.76 | Pk | Horizonta |
| 2483.50 | 44.91 | 3.58 | 27.70 | 44. | .00 | 32.19 | 5 | 4 | -21.81 | AV | Horizonta |

Note: (1) All other emissions more than 20dB below the limit.



| EUT: | Table | ət | | N | Лode | Iodel No.: TAB R5 | | | R5 | | |
|------------------------|--|---------------|-------------------|-------------|--------|-------------------|--------|---------|-----------|----------|------------|
| emperature: | emperature: 20 °C Relative Humidity: 48% | | | | | | | | | | |
| est Mode: | Mode: Mode2/ Mode4 Test By: | | | | | Зу: | | Mary | Hu | | |
| A <u>ll the modula</u> | ation mode | es have | been teste | ed, an | nd the | e worst res | ult wa | is repo | ort as be | ow: | |
| Frequency | Reading Level | Cable Loss | Antenna Factor | Prea Fac | | Emission Level | Lin | nits | Margin | Detector | Comment |
| (MHz) | (dBµV) | (dB) | dB/m | (dE | B) | (dBµV/m) | (dBµ | ıV/m) | (dB) | Туре | |
| 3260 | 60.95 | 4.04 | 29.57 | 44. | 70 | 49.86 | 7 | '4 | -24.14 | Pk | Vertical |
| 3260 | 47.98 | 4.04 | 29.57 | 44. | 70 | 36.89 | 5 | 4 | -17.11 | AV | Vertical |
| 3260 | 53.61 | 4.04 | 29.57 | 44. | 70 | 42.52 | 7 | '4 | -31.48 | Pk | Horizontal |
| 3260 | 45.93 | 4.04 | 29.57 | 44. | 70 | 34.84 | 5 | 4 | -19.16 | AV | Horizontal |
| 3332 | 62.81 | 4.26 | 29.87 | 44.4 | 40 | 52.54 | 7 | '4 | -21.46 | Pk | Vertical |
| 3332 | 44.85 | 4.26 | 29.87 | 44.4 | 40 | 34.58 | 5 | 4 | -19.42 | AV | Vertical |
| 3332 | 62.22 | 4.26 | 29.87 | 44.4 | 40 | 51.95 | 7 | '4 | -22.05 | Pk | Horizontal |
| 3332 | 44.16 | 4.26 | 29.87 | 44.4 | 40 | 33.89 | 5 | 4 | -20.11 | AV | Horizontal |
| 17797 | 49.91 | 10.99 | 43.95 | 43. | 50 | 61.35 | 7 | '4 | -12.65 | Pk | Vertical |
| 17797 | 35.00 | 10.99 | 43.95 | 43. | 50 | 46.44 | 5 | 4 | -7.56 | AV | Vertical |
| 17788 | 53.26 | 11.81 | 43.69 | 44.6 | 60 | 64.16 | 7 | '4 | -9.84 | Pk | Horizontal |
| 17788 | 38.14 | 11.81 | 43.69 | 44.0 | .60 | 49.04 | 5 | 4 | -4.96 | AV | Horizontal |

Note: (1) All other emissions more than 20dB below the limit.



7.3 NUMBER OF HOPPING CHANNEL

7.3.1 Applicable Standard

According to FCC Part 15.247(a)(1) (iii)and ANSI C63.10-2013

7.3.2 Conformance Limit

Frequency hopping systems in the 2400-2483.5MHz band shall use at least 15 channels.

7.3.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.3

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT must have its hopping function enabled.

Use the following spectrum analyzer settings:

Span = the frequency band of operation

RBW : To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.

 $VBW \ge RBW$

Sweep = auto

Detector function = peak

Trace = max hold

7.3.6 Test Results

| EUT: | Tablet | Model No.: | TAB R5 |
|--------------|---------------|--------------------|---------|
| Temperature: | 20 ℃ | Relative Humidity: | 48% |
| Test Mode: | Mode 5(1Mbps) | Test By: | Mary Hu |



7.4 HOPPING CHANNEL SEPARATION MEASUREMENT

7.4.1 Applicable Standard

According to FCC Part 15.247(a)(1) and ANSI C63.10-2013

7.4.2 Conformance Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5MHz band shall have hopping channel carrier frequencies that are separated by 25kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater.

7.4.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.2

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

Span = Measurement Bandwidth or Channel Separation

RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.

VBW ≥ RBW Sweep = auto

Detector function = peak Trace = max hold

7.4.6 Test Results

| EUT: | Tablet | Model No.: | TAB R5 |
|--------------|-------------------|--------------------|---------|
| Temperature: | 20 °C | Relative Humidity: | 48% |
| Test Mode: | Mode2/Mode3/Mode4 | Test By: | Mary Hu |



7.5 AVERAGE TIME OF OCCUPANCY (DWELL TIME)

7.5.1 Applicable Standard

According to FCC Part 15.247(a)(1)(iii) and ANSI C63.10-2013

7.5.2 Conformance Limit

The average time of occupancy on any channel shall not be greater than 0.4s within a period of 0.4s multiplied by the number of hopping channels employed.

7.5.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

7.5.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.4 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT must have its hopping function enabled. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel RBW \geq 1MHz VBW \geq RBW Sweep = as necessary to capture the entire dwell time per hopping channel Detector function = peak Trace = max hold Measure the maximum time duration of one single pulse. Set the EUT for DH5, DH3 and DH1 packet transmitting. Measure the maximum time duration of one single pulse.



7.5.6 Test Results

| EUT: | Tablet | Model No.: | TAB R5 |
|--------------|-------------------|--------------------|--------------------------|
| Temperature: | 20 °C | Relative Humidity: | TAB R5 48% Mary Hu |
| Test Mode: | Mode2/Mode3/Mode4 | Test By: | Mary Hu |

Test data reference attachment.

Note:

A Period Time = (channel number)*0.4

DH1 Dwell time: Reading * (1600/2)*31.6/(channel number) DH3 Dwell time: Reading * (1600/4)*31.6/(channel number) DH5 Dwell time: Reading * (1600/6)*31.6/(channel number)

For Example:

- 1. In normal mode, hopping rate is 1600 hops/s with 6 slots in 79 hopping channels. With channel hopping rate (1600 / 6 / 79) in Occupancy Time Limit (0.4 x 79) (s), Hops Over Occupancy Time comes to $(1600 / 6 / 79) \times (0.4 \times 79) = 106.67$ hops.
- 2. In AFH mode, hopping rate is 800 hops/s with 6 slots in 20 hopping channels. With channel hopping rate (800 / 6 / 20) in Occupancy Time Limit (0.4 x 20) (s), Hops Over Occupancy Time comes to $(800 / 6 / 20) \times (0.4 \times 20) = 53.33$ hops.
- 3. Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time



7.6 20DB BANDWIDTH TEST

7.6.1 Applicable Standard

According to FCC Part 15.247(a)(1) and ANSI C63.10-2013

7.6.2 Conformance Limit

No limit requirement.

7.6.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

7.6.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 6.9.2 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel RBW \geq 1% of the 20 dB bandwidth VBW \geq RBW Sweep = auto Detector function = peak Trace = max hold

7.6.6 Test Results

| EUT: | Tablet | Model No.: | TAB R5 |
|--------------|-------------------|--------------------|---------|
| Temperature: | 20 °C | Relative Humidity: | 48% |
| Test Mode: | Mode2/Mode3/Mode4 | Test By: | Mary Hu |



7.7 PEAK OUTPUT POWER

7.7.1 Applicable Standard

According to FCC Part 15.247(b)(1) and ANSI C63.10-2013

7.7.2 Conformance Limit

The maximum peak conducted output power of the intentional radiator shall not exceed the following: (1) For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band 0.125 watts.

7.7.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

7.7.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.5.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

RBW \geq the 20 dB bandwidth of the emission being measured

 $VBW \ge RBW$

Sweep = auto

Detector function = peak Trace = max hold

7.7.6 Test Results

| EUT: | Tablet | Model No.: | TAB R5 |
|--------------|-------------------|--------------------|---------|
| Temperature: | 20 °C | Relative Humidity: | 48% |
| Test Mode: | Mode2/Mode3/Mode4 | Test By: | Mary Hu |



7.8 CONDUCTED BAND EDGE MEASUREMENT

7.8.1 Applicable Standard

According to FCC Part 15.247(d) and ANSI C63.10-2013

7.8.2 Conformance 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 §15.205(c)).

7.8.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.8.4 Test Setup

Please refer to Section 6.1 of this test report.

7.8.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.6.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT must have its hopping function enabled.

Use the following spectrum analyzer settings:

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

RBW = 100KHz

VBW = 300KHz

Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used.

Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

Repeat above procedures until all measured frequencies were complete.

7.8.6 Test Results

| EUT: | Tablet | Model No.: | TAB R5 |
|--------------|----------------------|--------------------|--------------------------|
| Temperature: | 20 °C | Relative Humidity: | TAB R5 48% Mary Hu |
| Test Mode: | Mode2 /Mode4/ Mode 5 | Test By: | Mary Hu |



7.9 SPURIOUS RF CONDUCTED EMISSION

7.9.1 Applicable Standard

According to FCC Part 15.247(d) and ANSI C63.10-2013.

7.9.2 Conformance 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)).

7.9.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.9.4 Test Setup

Please refer to Section 6.1 of this test report.

7.9.5 Test Procedure

Establish an emission level by using the following procedure:

a) Set the center frequency and span to encompass frequency range to be measured.

- b) Set the RBW = 100 kHz.
- c) Set the VBW \geq [3 × RBW].
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.

g) Allow trace to fully stabilize.

h) Use the peak marker function to determine the maximum amplitude level.

Then the limit shall be attenuated by at least 20 dB relative to the maximum amplitude level in 100 kHz.

7.9.6 Test Results

Remark: The measurement frequency range is from 30MHzHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandege measurement data.



7.10 ANTENNA APPLICATION

7.10.1 Antenna Requirement

15.203 requirement: For intentional device, according to 15.203: 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.

7.10.2 Result

The EUT antenna is permanent attached PIFA antenna (Gain: 0.26dBi). It comply with the standard requirement.



7.11 FREQUENCY HOPPING SYSTEM (FHSS) EQUIPMENT REQUIREMENTS 7.11.1 Standard Applicable

According to FCC Part 15.247(a)(1), The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals. (g) Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section. (h) The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

7.11.2 Frequency Hopping System

This transmitter device is frequency hopping device, and complies with FCC part 15.247 rule. This device uses Bluetooth radio which operates in 2400-2483.5 MHz band. Bluetooth uses a radio technology called frequency-hopping spread spectrum, which chops up the data being sent and transmits chunks of it on up to 79 bands (1 MHz each; centred from 2402 to 2480 MHz) in the range 2,400-2,483.5 MHz. The transmitter switches hop frequencies 1,600 times per second to assure a high degree of data security. All Bluetooth devices participating in a given piconet are synchronized to the frequency-hopping channel for the piconet. The frequency hopping sequence is determined by the master's device address and the phase of the hopping sequence (the frequency to hop at a specific time) is determined by the master's internal clock. Therefore, all slaves in a piconet must know the master's device address and must synchronize their clocks with the master's clock. Adaptive Frequency Hopping (AFH) was introduced in the Bluetooth specification to provide an effective way for a Bluetooth radio to counteract normal interference. AFH identifies "bad" channels, where either other wireless devices are interfering with the Bluetooth signal or the Bluetooth signal is interfering with another device. The AFH-enabled Bluetooth device will then communicate with other devices within its piconet to share details of any identified bad channels. The devices will then switch to alternative available "good" channels, away from the areas of interference, thus having no impact on the bandwidth used.

This device was tested with an bluetooth system receiver to check that the device maintained hopping synchronization, and the device complied with these requirements for FCC Part 15.247 rule.

7.11.3 EUT Pseudorandom Frequency Hopping Sequence

Pseudorandom Frequency Hopping Sequence Table as below: Channel: 08, 24, 40, 56, 40, 56, 72, 09, 01, 09, 33, 41, 33, 41, 65, 73, 53, 69, 06, 22, 04, 20, 36, 52, 38, 46, 70, 78, 68, 76, 21, 29, 10, 26, 42, 58, 44, 60, 76, 13, 03, 11, 35, 43, 37, 45, 69, 77, 55, 71, 08, 24, 08, 24, 40, 56, 40, 48, 72, 01, 72, 01, 25, 33, 12, 28, 44, 60, 42, 58, 74, 11, 05, 13, 37, 45 etc.

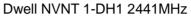
The system receiver have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

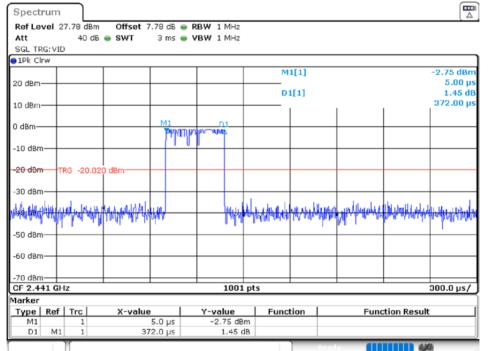


8 TEST RESULTS

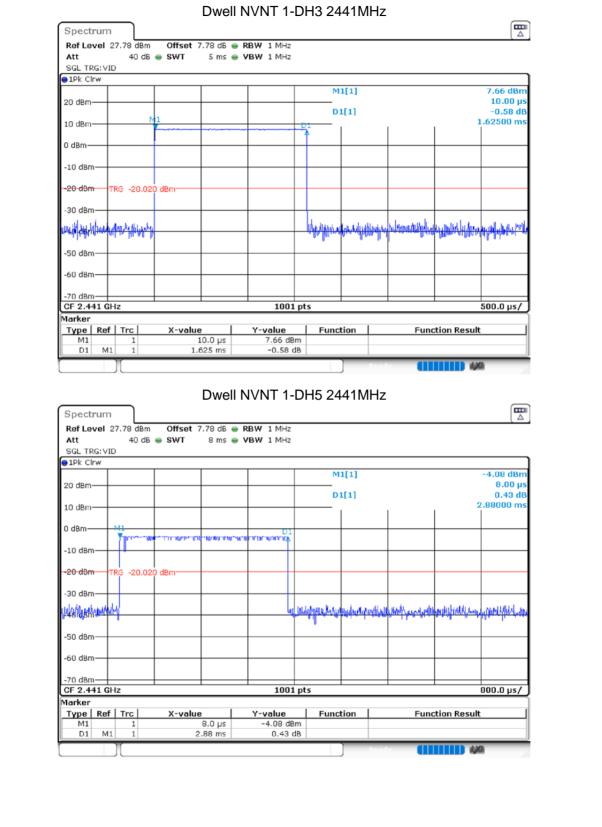
8.1 DWELL TIME

| Condition | Mode | Frequency | Pulse Time | Total Dwell | Period Time | Limit | Verdict |
|-----------|-------|-----------|------------|-------------|-------------|-------|---------|
| | | (MHz) | (ms) | Time (ms) | (ms) | (ms) | |
| NVNT | 1-DH1 | 2441 | 0.372 | 119.04 | 31600 | 400 | Pass |
| NVNT | 1-DH3 | 2441 | 1.625 | 260 | 31600 | 400 | Pass |
| NVNT | 1-DH5 | 2441 | 2.88 | 307.2 | 31600 | 400 | Pass |
| NVNT | 2-DH1 | 2441 | 0.381 | 121.92 | 31600 | 400 | Pass |
| NVNT | 2-DH3 | 2441 | 1.59 | 254.4 | 31600 | 400 | Pass |
| NVNT | 2-DH5 | 2441 | 2.88 | 307.2 | 31600 | 400 | Pass |
| NVNT | 3-DH1 | 2441 | 0.381 | 121.92 | 31600 | 400 | Pass |
| NVNT | 3-DH3 | 2441 | 1.625 | 260 | 31600 | 400 | Pass |
| NVNT | 3-DH5 | 2441 | 2.872 | 306.347 | 31600 | 400 | Pass |
| | | | | | * * | | |

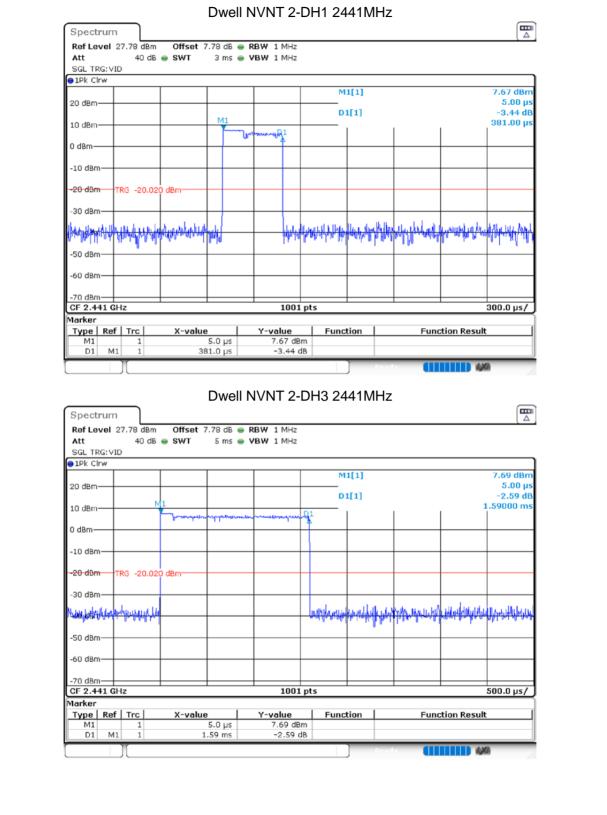




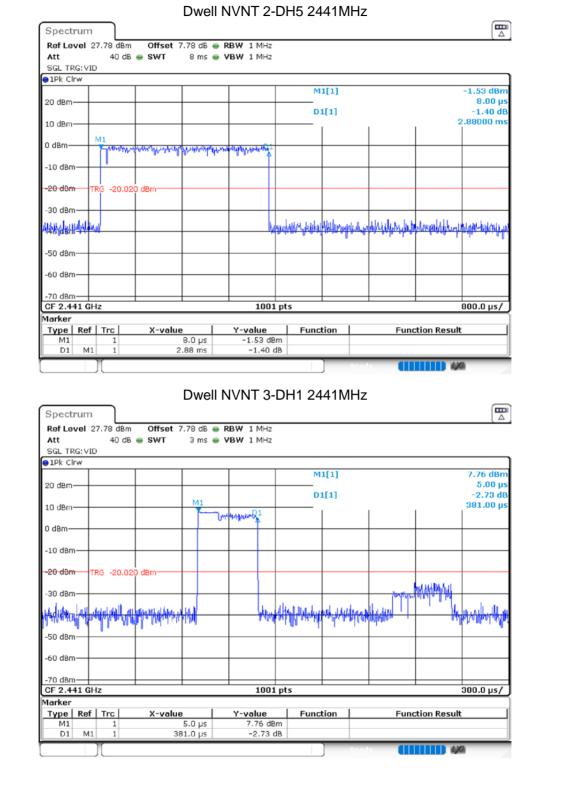




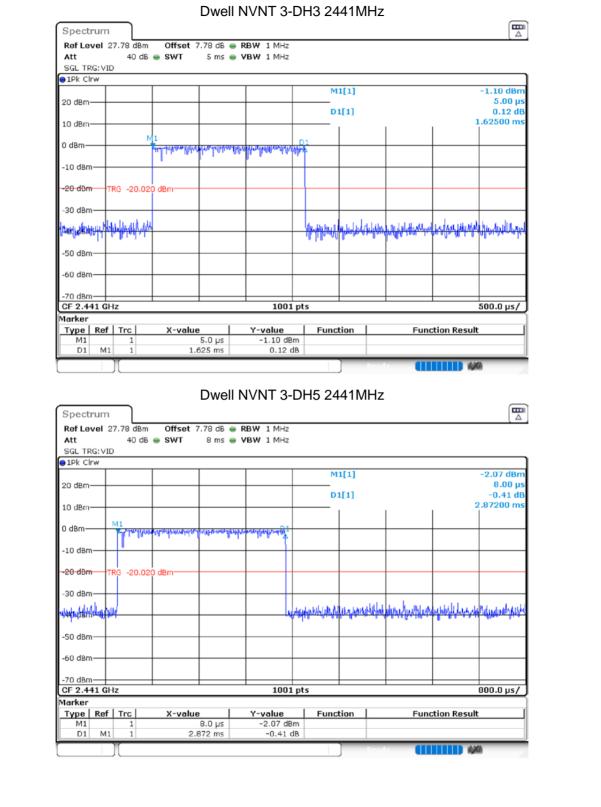










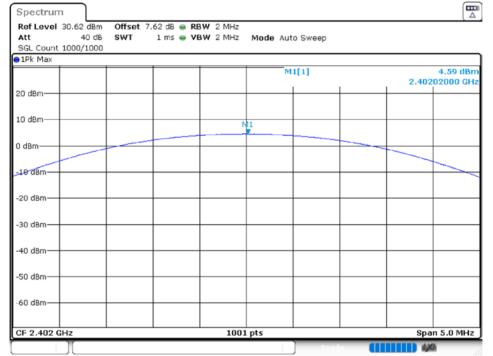




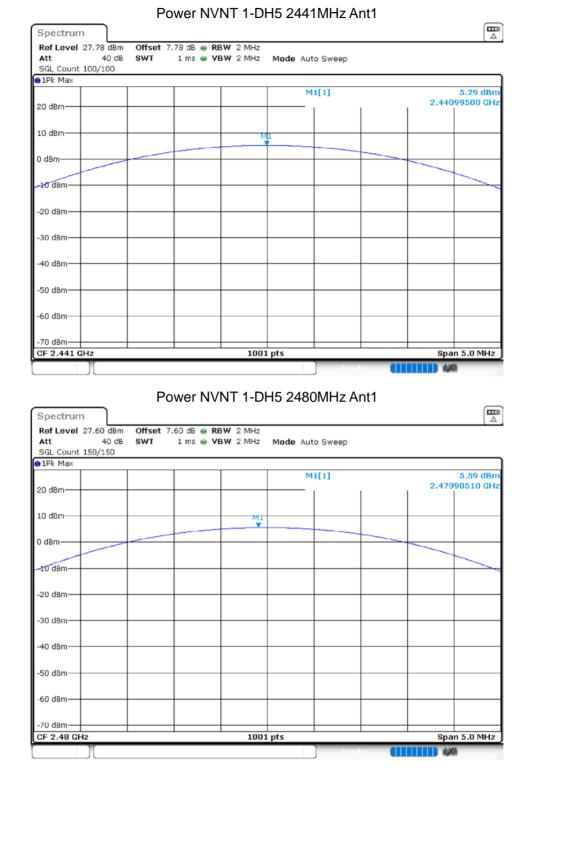
8.2 MAXIMUM CONDUCTED OUTPUT POWER

| • | | | 011211 | | | |
|-----------|-------|-----------------|---------|-------------|-------------|---------|
| Condition | Mode | Frequency (MHz) | Antenna | Power (dBm) | Limit (dBm) | Verdict |
| NVNT | 1-DH5 | 2402 | Ant 1 | 4.59 | 30 | Pass |
| NVNT | 1-DH5 | 2441 | Ant 1 | 5.29 | 30 | Pass |
| NVNT | 1-DH5 | 2480 | Ant 1 | 5.59 | 30 | Pass |
| NVNT | 2-DH5 | 2402 | Ant 1 | 6.33 | 21 | Pass |
| NVNT | 2-DH5 | 2441 | Ant 1 | 7.18 | 21 | Pass |
| NVNT | 2-DH5 | 2480 | Ant 1 | 7.66 | 21 | Pass |
| NVNT | 3-DH5 | 2402 | Ant 1 | 6.52 | 21 | Pass |
| NVNT | 3-DH5 | 2441 | Ant 1 | 7.48 | 21 | Pass |
| NVNT | 3-DH5 | 2480 | Ant 1 | 7.90 | 21 | Pass |

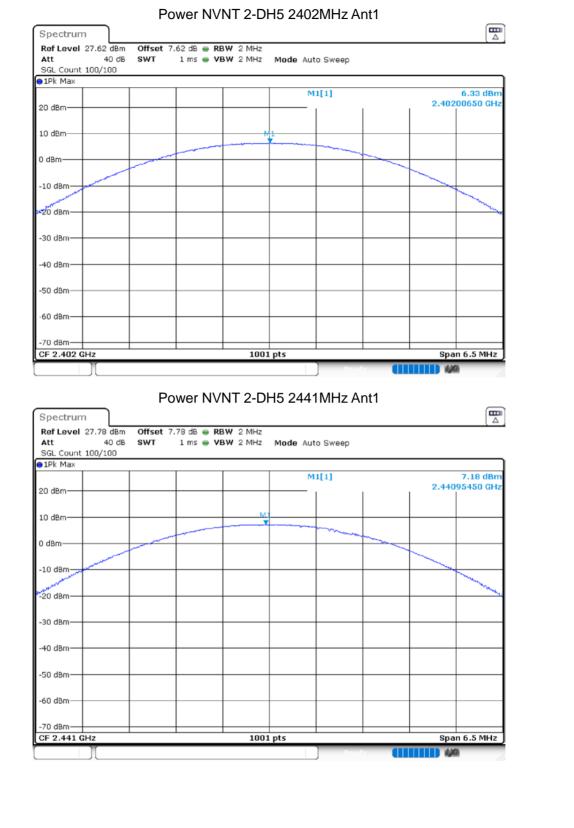
Power NVNT 1-DH5 2402MHz Ant1



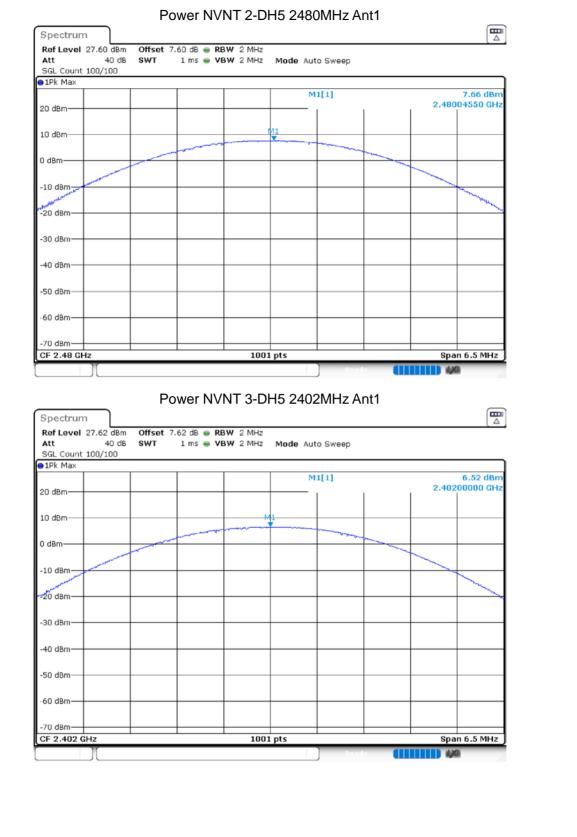




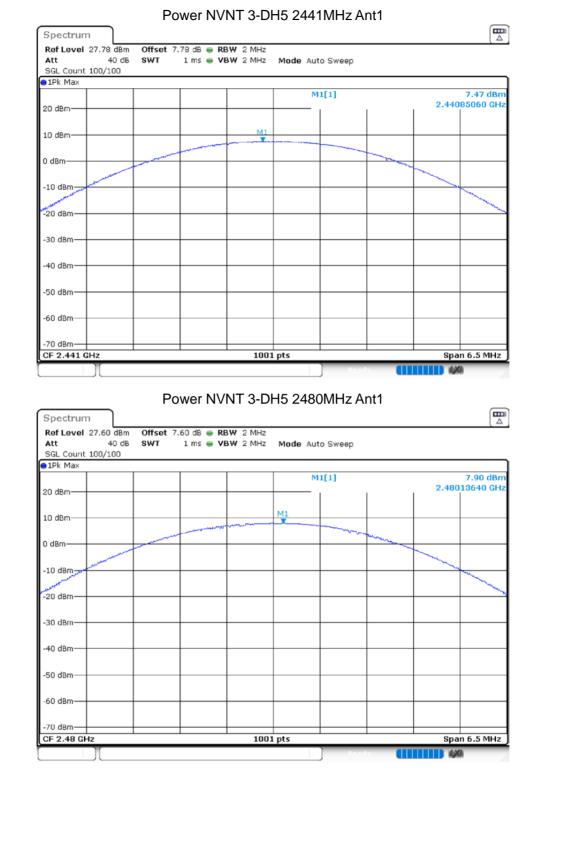






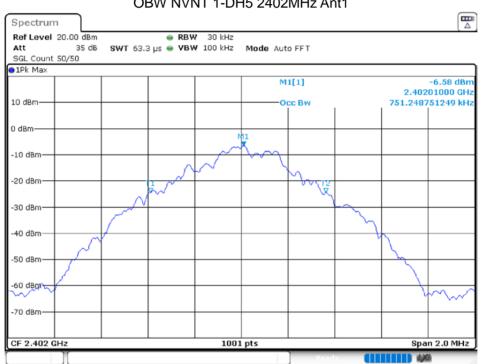








8.3 OCCUPIED CHANNEL BANDWIDTH Condition 99% OBW -20 dB Bandwidth Verdict Mode Frequency Antenna (MHz) (MHz) (MHz) NVNT 1-DH5 2402 Ant 1 0.7512 0.856 Pass Pass NVNT 1-DH5 2441 Ant 1 0.7552 0.858 NVNT 1-DH5 2480 Ant 1 0.7672 Pass 0.85 **NVNT** 2-DH5 2402 Ant 1 1.1429 1.252 Pass 1.1449 Pass NVNT 2-DH5 2441 Ant 1 1.252 NVNT 2-DH5 2480 Ant 1 1.1528 1.258 Pass NVNT 3-DH5 2402 Ant 1 1.1429 1.25 Pass NVNT 3-DH5 2441 Ant 1 1.1469 1.25 Pass NVNT 2480 1.1548 1.252 3-DH5 Ant 1 Pass

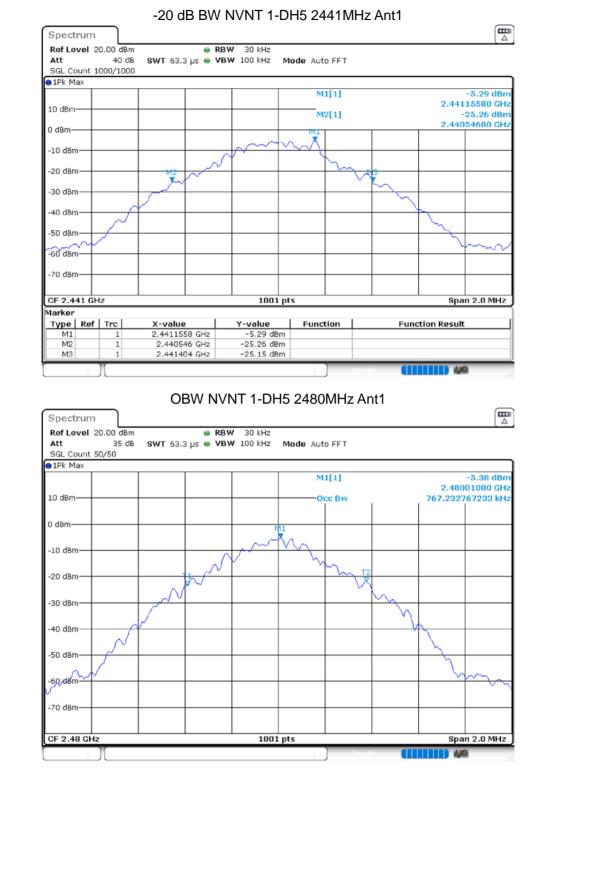


OBW NVNT 1-DH5 2402MHz Ant1

























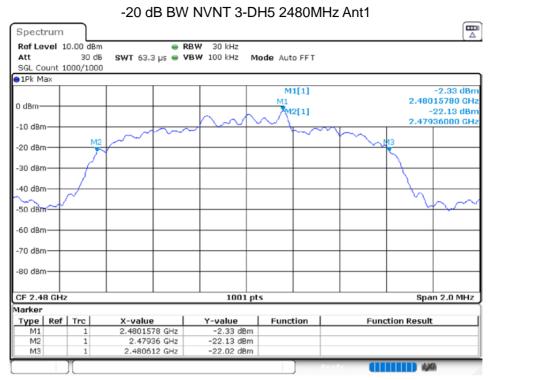








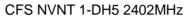


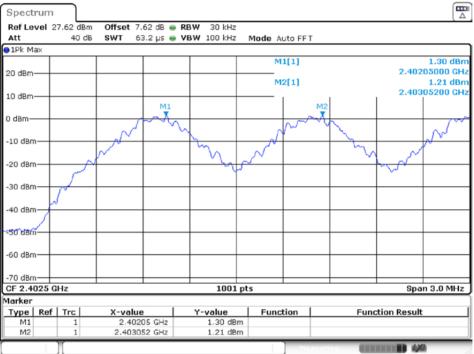




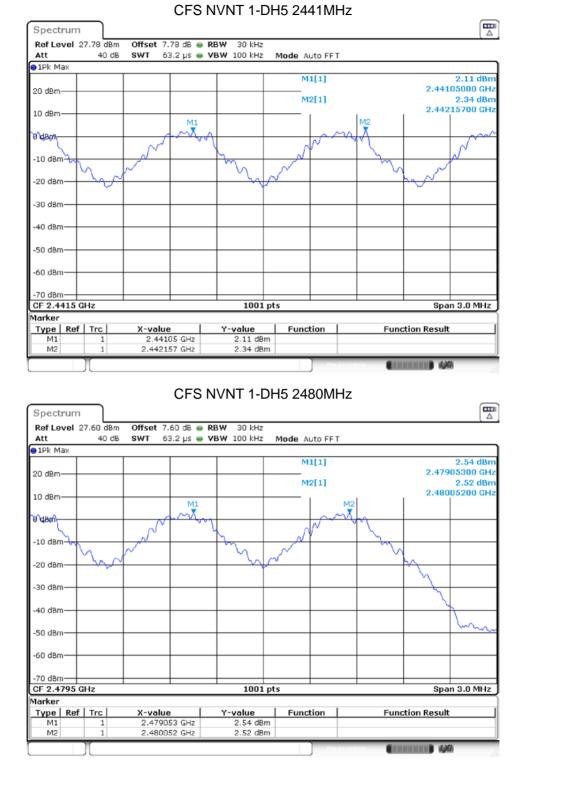
8.4 CARRIER FREQUENCIES SEPARATION

| Condition | Mode | Hopping Freq1 | Hopping Freq2 | HFS | Limit | Verdict |
|-----------|-------|---------------|---------------|-------|-------|---------|
| | | (MHz) | (MHz) | (MHz) | (MHz) | |
| NVNT | 1-DH5 | 2402.05 | 2403.052 | 1.002 | 0.856 | Pass |
| NVNT | 1-DH5 | 2441.05 | 2442.157 | 1.107 | 0.858 | Pass |
| NVNT | 1-DH5 | 2479.053 | 2480.052 | 0.999 | 0.85 | Pass |
| NVNT | 2-DH5 | 2402.008 | 2403.16 | 1.152 | 0.835 | Pass |
| NVNT | 2-DH5 | 2441.02 | 2442.01 | 0.99 | 0.835 | Pass |
| NVNT | 2-DH5 | 2479.158 | 2480.079 | 0.921 | 0.839 | Pass |
| NVNT | 3-DH5 | 2402.158 | 2403.16 | 1.002 | 0.833 | Pass |
| NVNT | 3-DH5 | 2441.158 | 2442.157 | 0.999 | 0.833 | Pass |
| NVNT | 3-DH5 | 2479.158 | 2480.157 | 0.999 | 0.835 | Pass |

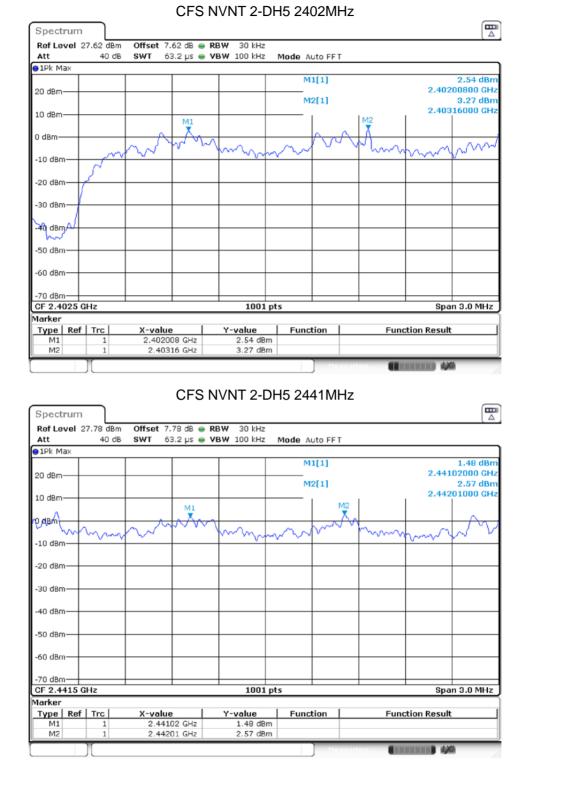








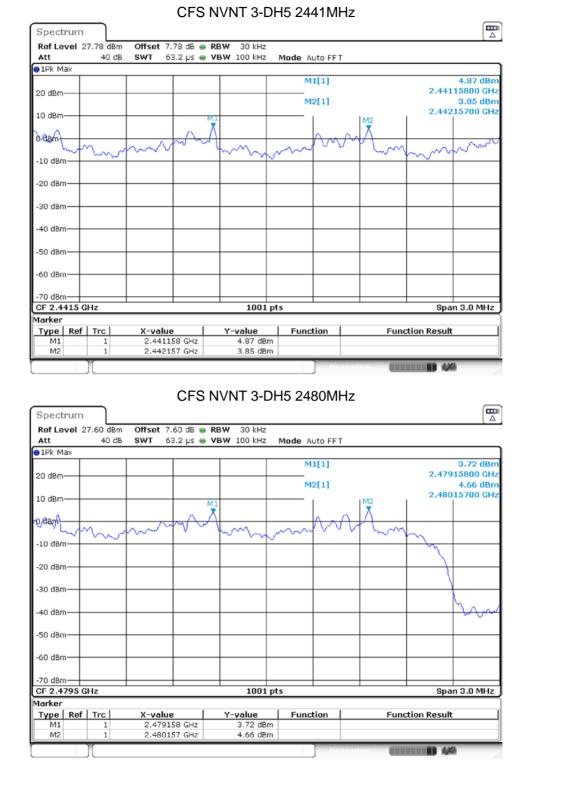












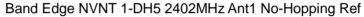


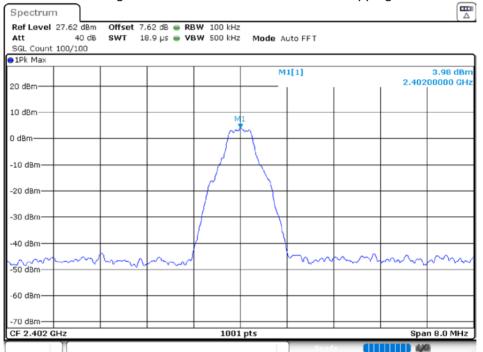
| NT 1-DH5 79 15 Pass Hopping No. NVNT 1-DH5 2402MHz Ref Level 27.62 dBm Offset 7.62 dB RBW 100 kH2 Mode Auto Sweep SGL Count 7000/7000 SWT 1 ms YBW 300 kH2 Mode Auto Sweep SGL Count 7000/7000 M1[1] 2.55 dBm 2.4018370 GH2 6.75 dBm 0 dBm M2[1] 2.47999382H2 6.75 dBm 2.47999382H2 0 dBm M1[1] 2.47999382H2 6.75 dBm 10 dBm M1[1] 2.47999382H2 6.75 dBm 20 dBm M1[1] 2.47999382H2 6.75 dBm 10 dBm M1[1] 2.47999382H2 6.75 dBm -10 dBm M1[1] 2.47999382H2 6.75 dBm -50 dBm M1[1] 2.4799382H2 6.75 dBm -50 dBm M1[1] 1 M1[1] 1 M1[1] -50 dBm M1[1] 1 M1[1] 1 M1[1] -50 dBm M1[1] 1 M1[1] 1 M1[1] -50 dBm M1[1] 1 M1[1] 1 M1[1] 1 M1[1] | | | | | | | | | | | | |
|--|--------|-------------------------|------------|--------------|------------------|--|--|-----------|----------------|---------------|-----------|------|
| Hopping No. NVNT 1-DH5 2402MHz Image: Colspan="2">Image: Colspan="2" Image: | | | | | Limit | | | | | | | |
| Spectrum The level 27.62 dBm Offset 7.62 dB RBW 100 kHz Att 40 dB SWT 1 ms YBW 300 kHz Mode Auto Sweep SGL Count 7000/7000 Ims YBW 300 kHz Mode Auto Sweep 9 IPk Max | / IN I | | | 19 | 15 | Pass | | | | | | |
| Spectrum The level 27.62 dBm Offset 7.62 dB RBW 100 kHz Att 40 dB SWT 1 ms YBW 300 kHz Mode Auto Sweep SGL Count 7000/7000 Ims YBW 300 kHz Mode Auto Sweep 9 IPk Max | | | | Hopp | ing No. | NVNT 1 | I-DH5 | 5 2402N | ЛНz | | | |
| Att 40 dB SWT 1 ms VBW 300 kHz Mode Auto Sweep SGL Count 7000/7000 Image: SGL Count 7000/7000 Image: SGL Count 7000/7000 Image: SGL Count 7000/7000 IPL Max | | Spectr | um | | - | | | | | | | 7 |
| SGL Count 7000/7000 IPIK Max M1[1] 3.55 dBm 20 dBm M2[1] 6.75 dBm 10, dBm M2[1] 2.479993835Hz 0 dBm M2[1] 2.479993835Hz -10 dBm M2[1] 0.400000000000000000000000000000000000 | | | | | | | Mode A | uto Sweep | | | | |
| 20 dBm | | | | | | | | | | | | Ъ |
| 10, dBm 6.75 dBm 0 dBm 2.4799930(2)Hz -10 dBm -10 dBm -20 dBm -10 dBm -30 dBm -10 dBm -30 dBm -10 dBm -50 dBm -10 dBm -50 dBm -10 dBm -70 dBm -10 dBm -10 dBm -10 dBm | | 20 dBm- | | | | | м | 1[1] | | 2.4 | | |
| 0 #Bm1 0 #Bm1 0 | | | | | | | M | 2[1] | | | 6.75 dBi | m |
| -10 dBm -20 dBm -30 dBm -30 dBm -30 dBm -40 dBm -50 dBm -50 dBm -50 dBm -50 dBm -60 dBm -70 | | | | AADAAAAAAAAA | A.B.o. a.o. a.o. | алалалада | A A A A A A A | ABADAJA | | | AAAAAX | |
| -20 dBm -30 dBm -30 dBm -30 dBm -30 dBm -30 dBm -30 dBm -30 dBm -40 dBm -30 dBm -30 dBm -30 dBm -50 dBm -30 dBm -30 dBm -30 dBm -50 dBm -30 dBm -30 dBm -30 dBm -50 dBm -30 dBm -30 dBm -30 dBm -60 dBm -30 dBm -30 dBm -30 dBm -70 dBm -30 dBm -30 dBm -30 dBm -70 dBm -30 dBm -30 dBm -30 dBm Marker -30 dBm -30 dBm -30 dBm Marker -30 dBm -30 dBm -30 dBm M1 1 2.401837 GHz 3.55 dBm | | - 10000 | ANADADADAR | IVIIIIIII | HARBER | 636363366 | NUM | (WWW) | AL AL AL | 1000 | WWW | 1 |
| -30 dBm -40 dBm -40 dBm -50 dBm -50 dBm -60 dBm -60 dBm -70 | | | | 10-0-0-00F1 | 101000 | <u>I A A A A A A A A A A A A A A A A A A A</u> | | | MARINAL | MARARA | *** | 1 |
| -40 dBm -50 dBm -50 dBm -50 dBm -50 dBm -60 dBm -60 dBm -60 dBm -70 dBm -70 dBm -70 dBm -70 dBm Marker -70 dBm -70 dBm -70 dBm Marker -70 dBm -70 dBm -70 dBm M1 1 2.401837 GHz 3.55 dBm | | | | | | | | | | | | 1 |
| Story Story <th< td=""><td></td><td>-30 dBm-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td></th<> | | -30 dBm- | | | | | | | | | | 1 |
| -60 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm Stop 2.4835 GHz Start 2.4 GHz 1001 pts Stop 2.4835 GHz Stop 2.4835 GHz Marker -70 pt Ref Trc X-value Y-value Function Function Result M1 1 2.401837 GHz 3.55 dBm -70 dBm -70 dBm | | - <mark>4</mark> 0 dBm- | | | | | | | | | | s.Le |
| -70 dBm -70 dBm Stop 2.4835 GHz Start 2.4 GHz 1001 pts Stop 2.4835 GHz Marker Type Ref Trc X-value Y-value Function Function Result M1 1 2.401837 GHz 3.55 dBm 5 5 5 | | -50 dBm- | | | | | | | | | | 1 |
| Start 2.4 GHz 1001 pts Stop 2.4835 GHz Marker Type Ref Trc X-value Y-value Function Function Result M1 1 2.401837 GHz 3.55 dBm 5.55 dBm 5.55 dBm | | -60 dBm- | | | | | | | | | | - |
| Marker Type Ref Trc X-value Y-value Function Function Result M1 1 2.401837 GHz 3.55 dBm | | | 1 CH2 | | | 1001 pt | - | | | Stop | 2 4025 CH | |
| M1 1 2.401837 GHz 3.55 dBm | | | | | | 1001 pt | | | | | | 1 |
| | | | | | | | | | | | | |
| | | Type M1 | 1 | 2.401837 0 | GHz | - value 3.55 dBm | | tion | Fund | | | |
| | | Type M1 | 1 | 2.401837 0 | GHz | - value 3.55 dBm | | tion | Fund | | | |
| | | Type M1 | 1 | 2.401837 0 | GHz | - value 3.55 dBm | | tion | Fund | | | |
| | | Type M1 | 1 | 2.401837 0 | GHz | - value 3.55 dBm | | tion | Fund | | | |
| | | Type M1 | 1 | 2.401837 0 | GHz | - value 3.55 dBm | | tion | Fund | | | |
| | | Type M1 | 1 | 2.401837 0 | GHz | - value 3.55 dBm | | tion | Fund | | | |
| | | Type M1 | 1 | 2.401837 0 | GHz | - value 3.55 dBm | | tion | Fund | | | |
| | | Type M1 | 1 | 2.401837 0 | GHz | - value 3.55 dBm | | tion | Fund | | | |
| | | Type M1 | 1 | 2.401837 0 | GHz | - value 3.55 dBm | | tion | Fund | | | |
| | | Type M1 | 1 | 2.401837 0 | GHz | - value 3.55 dBm | | tion Read | Fund | | | |
| | | Type M1 | 1 | 2.401837 0 | GHz | - value 3.55 dBm | | tion | Fund | | | |
| | | Type M1 | 1 | 2.401837 0 | GHz | - value 3.55 dBm | | tion | Fund | | | |
| | | Type M1 | 1 | 2.401837 0 | GHz | - value 3.55 dBm | | tion | Fund | | | |
| | | Type M1 | 1 | 2.401837 0 | GHz | - value 3.55 dBm | | tion | Fund | | | |
| | | Type M1 | 1 | 2.401837 0 | GHz | - value 3.55 dBm | | tion Read | Fund | | | |
| | | Type M1 | 1 | 2.401837 0 | GHz | - value 3.55 dBm | | tion | Fund | | | |
| | | Type M1 | 1 | 2.401837 0 | GHz | - value 3.55 dBm | | tion | Fund | | | |
| | | Type M1 | 1 | 2.401837 0 | GHz | - value 3.55 dBm | | tion | Fund | | | |
| | | Type M1 | 1 | 2.401837 0 | GHz | - value 3.55 dBm | | tion | Fund | | | |
| | | Type M1 | 1 | 2.401837 0 | GHz | - value 3.55 dBm | | tion | Fund | | | |
| | | Type M1 | 1 | 2.401837 0 | GHz | - value 3.55 dBm | | tion | Fund | | | |
| | | Type M1 | 1 | 2.401837 0 | GHz | - value 3.55 dBm | | tion | Fund | | | |
| | | Type M1 | 1 | 2.401837 0 | GHz | - value 3.55 dBm | | tion | Fund | | | |



8.6 BAND EDGE

| Condition | Mode | Frequency | Antenna | Hopping | Max Value | Limit | Verdict |
|-----------|-------|-----------|---------|------------|-----------|-------|---------|
| | | (MHz) | | Mode | (dBc) | (dBc) | |
| NVNT | 1-DH5 | 2402 | Ant 1 | No-Hopping | -44.46 | -20 | Pass |
| NVNT | 1-DH5 | 2402 | Ant 1 | Hopping | -44.04 | -20 | Pass |
| NVNT | 1-DH5 | 2480 | Ant 1 | No-Hopping | -47.23 | -20 | Pass |
| NVNT | 1-DH5 | 2480 | Ant 1 | Hopping | -47.24 | -20 | Pass |
| NVNT | 2-DH5 | 2402 | Ant 1 | No-Hopping | -45.71 | -20 | Pass |
| NVNT | 2-DH5 | 2402 | Ant 1 | Hopping | -46.04 | -20 | Pass |
| NVNT | 2-DH5 | 2480 | Ant 1 | No-Hopping | -48.67 | -20 | Pass |
| NVNT | 2-DH5 | 2480 | Ant 1 | Hopping | -49.3 | -20 | Pass |
| NVNT | 3-DH5 | 2402 | Ant 1 | No-Hopping | -46.38 | -20 | Pass |
| NVNT | 3-DH5 | 2402 | Ant 1 | Hopping | -47.12 | -20 | Pass |
| NVNT | 3-DH5 | 2480 | Ant 1 | No-Hopping | -50.57 | -20 | Pass |
| NVNT | 3-DH5 | 2480 | Ant 1 | Hopping | -49.77 | -20 | Pass |







| | | | | | M1[1] | | | .86 dBm |
|--------------------------------|-----|--------|-------------------------|------------------------------|---------------|------------------|------------------------|--------------------|
| 20 dBm 10 dBm | | | | | M2[1] | | -45 | 000 GHz .41 dBm |
| IO aBW | | | | | | 1 | 2.40000 | 000¦GHz ▼ |
| 0 dBm- | + | | | | | | + | |
| -10 dBm | | | | | | | | |
| -10 0011 | · • | -16.0 | 20_dBm | | | | | |
| -20 dBm | n | -10.0 | | | | | + | $-\mathbf{n}$ |
| -30 dBm | | | | | | | | 1 |
| -30 ubn | " | | M4 | | | | | |
| -40 dBm | | | | alare the other states to be | | | M3 | M2 |
| , հեղ, է դար -50 dBm | | harden | wrothen provided by the | Hundersonwalanda | uning and the | hohm - when have | have the solder of the | rulas huup |
| -50 übn | " | | | | | | | |
| -60 dBm | ∩+- | | | | | | | |
| -70 dBm | | | | | | | | |
| Start 2 | | GHz | | 1001 pt | s | | Stop 2.4 | 06 GHz |
| Marker | | | | | | | | |
| Type | Ref | Trc | X-value | Y-value | Function | Fun | ction Result | |
| | | 1 | 2.40185 GHz | 3.86 dBm | | | | |
| M1 | | 1 | 2.4 GHz 2.39 GHz | -45.41 dBm -46.01 dBm | | | | |
| M1 M2 | | | | 40.01 GDIII | | | | |
| M1 | | 1 | 2.3408 GHz | -40.48 dBm | | | | |





| Spectrum | 1 | | | | | | | | |
|--|----------------------------|------------------|-------------|-----------------------|----------|--|--------------|-------------------|--|
| Ref Level | | | 7.62 dB 👄 R | | | | | | (|
| Att | 40 dB | SWT 23 | 27.5 µs 👄 ۷ | 'BW 300 kH | z Mode | Auto FFT | | | |
| SGL Count 1Pk Max | 1200/1200 | | | | | | | | |
| | | | | | M | 1[1] | | | 3.61 dBm |
| 20 dBm — | | | | | <u> </u> | | | | 05000 GHz |
| 10 dBm | | | | | M | 2[1] | | | 44.91 dBm 00000 <mark>ឲ្រអ្</mark> អz |
| | | | | | | | | | MAL |
| | | | | | | | | | MM |
| -10 dBm | | | | | | | | | 1970 |
| -20 dBm | D1 -16.104 | dBm | | | | | | | - / · |
| | | | | | | | | | |
| -30 dBm | | | M4 | | | | | | |
| -40 dBm | a at a me | ala terraria a | | myleseconterengenting | | and see by | merenand | 43 | M2 |
| -50 dBm | e-freebrighter | mhalmlynia | 6/4UU | 14 | mand | all a state of the | and a second | and the second of | manan |
| | | | | | | | | | |
| -60 dBm | | | | | | | | | |
| -70 dBm | | | | | | | | | |
| Start 2.306 | i GHz | | | 1001 | pts | | | Stop 2 | 2.406 GHz |
| larker Tuma Daf | Tuel | M. umbur | | Y-value | Func | Non 1 | E | tion Result | |
| Type Ref M1 | 1 | X-value 2.403 | 9 OS GHZ | 3.61 dB | _ | tion | Fund | tion Result | |
| M2 | 1 | | 2.4 GHz | -44.91 dB | | | | | |
| M3 M4 | 1 | | 87 GHz | -43.33 dB | | | | | |
| | 1 | 2.34 | 29 GHz I | -40.15 dB | m | | | | |
| | 1 | 2.34 | 29 GHz | -40.15 dB | Im | Pear | | | 2 |
| | | 2.34 | 29 GHz | -40.15 dB | Im |] Read | | | 1 |
| |][| | | | |) Ant1 No | v 🛄 | na Ref | |
| | Band | | | | |) Ant1 No | b-Hoppii | ng Ref | |
| Spectrum | Band | Edge N | VNT 1-I | DH5 24 | 80MHz / |) Ant1 No | o-Hoppin | ng Ref | |
| Spectrum Ref Level | Band | Edge N | VNT 1-I | DH5 24 | BOMHz . | | o-Hoppii | ng Ref | |
| Spectrum Ref Level : Att | Band 27.60 dBm 40 dB | Edge N | VNT 1-I | DH5 24 | BOMHz . | | o-Hoppin | ng Ref | |
| Spectrum Ref Level | Band 27.60 dBm 40 dB | Edge N | VNT 1-I | DH5 24 | 80MHz / | uto FFT | o-Hoppin | ng Ref | |
| Spectrum Ref Level Att SGL Count 1Pk Max | Band 27.60 dBm 40 dB | Edge N | VNT 1-I | DH5 24 | 80MHz / | | o-Hoppin | | 5.02 dBm |
| Spectrum Ref Level : Att SGL Count) IPk Max | Band 27.60 dBm 40 dB | Edge N | VNT 1-I | DH5 24 | 80MHz / | uto FFT | o-Hoppin | | |
| Spectrum Ref Level 3 Att SGL Count 1Pk Max 20 dBm | Band 27.60 dBm 40 dB | Edge N | VNT 1-I | DH5 24 | 80MHz / | uto FFT | o-Hoppin | | 5.02 dBm |
| Spectrum Ref Level 3 Att SGL Count 1Pk Max 20 dBm | Band 27.60 dBm 40 dB | Edge N | VNT 1-I | DH5 24 | 80MHz / | uto FFT | p-Hoppin | | 5.02 dBm |
| Spectrum Ref Level 3 Att SGL Count 1Pk Max 20 dBm 10 dBm | Band 27.60 dBm 40 dB | Edge N | VNT 1-I | DH5 24 | 80MHz / | uto FFT | p-Hoppin | | 5.02 dBm |
| Spectrum Ref Level : Att SGL Count | Band 27.60 dBm 40 dB | Edge N | VNT 1-I | DH5 24 | 80MHz / | uto FFT | p-Hoppin | | 5.02 dBm |
| Spectrum Ref Level : SGL Count) IPk Max 20 dBm 10 dBm 0 dBm | Band 27.60 dBm 40 dB | Edge N | VNT 1-I | DH5 24 | 80MHz / | uto FFT | p-Hoppin | | 5.02 dBm |
| Spectrum Ref Level : SGL Count) IPk Max 20 dBm 10 dBm | Band 27.60 dBm 40 dB | Edge N | VNT 1-I | DH5 24 | 80MHz / | uto FFT | p-Hoppin | | 5.02 dBm |
| Spectrum Ref Level : SGL Count IPk Max 20 dBm 10 dBm 0 dBm -10 dBm | Band 27.60 dBm 40 dB | Edge N | VNT 1-I | DH5 24 | 80MHz / | uto FFT | p-Hoppin | | 5.02 dBm |
| Spectrum Ref Level : SGL Count IPk Max 20 dBm 10 dBm 0 dBm -10 dBm | Band 27.60 dBm 40 dB | Edge N | VNT 1-I | DH5 24 | 80MHz / | uto FFT | p-Hoppin | | 5.02 dBm |
| Spectrum Ref Level : SGL Count IPk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm | Band 27.60 dBm 40 dB | Edge N | VNT 1-I | DH5 24 | 80MHz / | uto FFT | p-Hoppin | | 5.02 dBm |
| Spectrum Ref Level : SGL Count IPk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm | Band 27.60 dBm 40 dB | Edge N | VNT 1-I | DH5 24 | 80MHz / | uto FFT | p-Hoppin | | 5.02 dBm |
| Spectrum Ref Level : SGL Count 1Pk Max 20 dBm 10 dBm 10 dBm | Band 27.60 dBm 40 dB | Edge N | VNT 1-I | DH5 24 | 80MHz / | uto FFT | p-Hoppin | | 5.02 dBm |
| Spectrum Ref Level : SGL Count IPk Max 20 dBm 10 dBm 0 dBm -10 dBm | Band 27.60 dBm 40 dB | Edge N | VNT 1-I | DH5 24 | 80MHz / | uto FFT | | | 5.02 dBm |

1001 pts

-60 dBm-

CF 2.48 GHz

Span 8.0 MHz

100



| | dBm Offset 7 | .60 dB 👄 RBW 100 kH | łz | | (= |
|--|--|--|-----------------------|--------------------|----------------------|
| | | 27.5 µs 👄 VBW 300 kH | Iz Mode Auto FF1 | Г | |
| Count 100/10 | 00 | | | | |
| Max | | | MILII | | 5.01 dBm |
| m | | | M1[1] | 2.4 | 8015000 GHz |
| | | | M2[1] | | -45.92 dBm |
| m | | | | 2.4 | 8350000 GHz |
| | | | | | |
| | | | | | |
| 3m 01 14 | 070 40 | | | | |
| Sm-01 -14 | 4.978 dBm | | | | |
| | | | | | |
| Im- | | | | | |
| Singer- | M4 | | | # | |
| monorint | remarkation | hours worked in the work of the second | her manual we make in | in full al remains | hours and the second |
| Im | | | | | |
| m | | | | | |
| | | | | | |
| 2.476 GHz | | 1001 | Inte | Stor | p 2.576 GHz |
| r. | | 1001 | i pis | 510 | 5 2.370 GH2 |
| Ref Trc | X-value | Y-value | Function | Function Res | ılt |
| 1 1 | | 15 GHz 5.01 dB | 3m | | |
| 2 1 | 2.483 | 35 GHz -45.92 dB | | | |
| | | | | | |
| 3 1 | . 2. | .5 GHz -45.41 dB 36 GHz -42.22 dB | | | |
| 3 1 | . 2. | .5 GHz -45.41 dE 86 GHz -42.22 dE | | | 1.173 |
| 3 1 | . 2. | | | eady (())) | iya / |
| | . 2 . 2.498 | 36 GHz -42.22 dE | 3m | z Apt1 Hopping | w |
| Band | . 2 . 2.498 | 36 GHz -42.22 dE | 3m | z Ant1 Hopping I | _ |
| | . 2 . 2.498 | 36 GHz -42.22 dE | 3m | z Ant1 Hopping I | Kef |
| Band trum evel 27.60 | Edge(Hopp | 60 dB ● RBW 100 kHz | oH5 2480MH | z Ant1 Hopping I | Ē |
| Band strum evel 27.60 | 2.498 2.498 Edge(Hopp dBm Offset 7.1 0 dB swr 18 | -42.22 de | oH5 2480MH | z Ant1 Hopping I | Ē |
| Band Band evel 27.60 4 Count 8009/8 | 2.498 2.498 Edge(Hopp dBm Offset 7.1 0 dB swr 18 | 60 dB ● RBW 100 kHz | oH5 2480MH | z Ant1 Hopping I | Ē |
| Band strum evel 27.60 | 2.498 2.498 Edge(Hopp dBm Offset 7.1 0 dB swr 18 | 60 dB ● RBW 100 kHz | DH5 2480MH: | z Ant1 Hopping I | |
| Band Band evel 27.60 4 Count 8009/8 Max | 2.498 2.498 Edge(Hopp dBm Offset 7.1 0 dB swr 18 | 60 dB ● RBW 100 kHz | oH5 2480MH | | Ē |
| Band Band evel 27.60 4 Count 8009/8 | 2.498 2.498 Edge(Hopp dBm Offset 7.1 0 dB swr 18 | 60 dB ● RBW 100 kHz | DH5 2480MH: | | 5.23 dBm |
| Band Band evel 27.60 4 Count 8009/8 Max | 2.498 2.498 Edge(Hopp dBm Offset 7.1 0 dB swr 18 | 60 dB ● RBW 100 kHz | DH5 2480MH: | | 5.23 dBm |
| Band Band evel 27.60 4 Count 8009/8 Max | 2.498 2.498 Edge(Hopp dBm Offset 7.1 0 dB swr 18 | 60 dB ● RBW 100 kHz | DH5 2480MH: | | 5.23 dBm |
| Band Band evel 27.60 44 Count 8009/6 Max | 2.498 2.498 Edge(Hopp dBm Offset 7.1 0 dB swr 18 | 60 dB ● RBW 100 kHz | DH5 2480MH: | | 5.23 dBm |
| Band Band evel 27.60 4 Count 8009/8 Max | 2.498 2.498 Edge(Hopp dBm Offset 7.1 0 dB swr 18 | 60 dB ● RBW 100 kHz | DH5 2480MH: | | 5.23 dBm |
| Band Band Etrum evel 27.60 44 Count 8009/6 Max | 2.498 2.498 Edge(Hopp dBm Offset 7.1 0 dB swr 18 | 60 dB ● RBW 100 kHz | DH5 2480MH: | | 5.23 dBm |
| Band Band evel 27.60 44 Count 8009/6 Max | 2.498 2.498 Edge(Hopp dBm Offset 7.1 0 dB swr 18 | 60 dB ● RBW 100 kHz | DH5 2480MH: | | 5.23 dBm |
| 1 1 Band vel 27.60 44 unt 8009/8 | 2.498 2.498 Edge(Hopp dBm Offset 7.1 0 dB swr 18 | 60 dB ● RBW 100 kHz | DH5 2480MH: | | 5.23 |

1001 pts

-30 dBm

-50 dBm--60 dBm--70 dBm-

CF 2.48 GHz

Span 8.0 MHz

1.00



| Att | 7.60 dBm? 40 dB | | | RBW 100 kHz VBW 300 kHz | | Auto FFT | | | |
|--|---|-----------------------------------|--|---|--|--------------|---------------|-------------|------------------------|
| SGL Count 1 1Pk Max | .000/1000 | | | | | | | | |
| | | | | | м | 1[1] | | | 5.14 dBm |
| 20 dBm | | | | | M | 2[1] | | | 15000 GHz 43.79 dBm |
| 10 dBm | | | | | | 1 | I | 2.483 | 50000 GHz |
| 9 d6m | | | | | | | | | |
| 110 dBm | | | | | | | | | |
| -20 cBm | 01 -14.774 | dBm | | | | | | | |
| -30 cBm | | | | | | | | | |
| | | 14 M3 | | | | | | | |
| | nor and the second s | June My market | where we want where the second | mapping | proved the little provided that the provided that the provided is the provided of the provided | numpuu | wheel man was | when men | a permanen |
| -50 dBm | | | | | | | | | |
| -60 dBm | | | | | | | | | |
| -70 dBm | CH2 | | | 1001 | nts | | | Stop | 2.576 GHz |
| larker | GHZ | | | 1001 | pts | | | Stop . | 2.370 GH2 |
| Type Ref M1 | Trc 1 | X-value | 15 GHz | Y-value 5.14 dBr | Func | tion | Fund | tion Result | : |
| M2 | 1 | | 35 GHz | -43.79 dBr | | | | | |
| | | | | | | | | | |
| M3 M4 | 1 1 | 2 | 55 GHz 59 GHz | -43.79 dBi -43.71 dBi -42.02 dBi | m | | | | |
| M3 M4 Spectrum | Band | 2 2.496 Edge N | VNT 2- | -43.71 dBr -42.02 dBr DH5 240 | m m D2MHz / |) Ant1 Nc | o-Hoppir | ng Ref | |
| M3 M4 Spectrum Ref Level 2 Att | 1 1 Band 27.62 dBm 40 dB | 2 2.490 Edge N Offset 7. | .5 GHz 59 GHz VNT 2- 62 dB • R | -43.71 dBr -42.02 dBr DH5 240 BW 100 kHz | m D2MHz | | -Hoppin | ng Ref | |
| M3 M4 Spectrum Ref Level 2 | 1 1 Band 27.62 dBm 40 dB | 2 2.490 Edge N Offset 7. | .5 GHz 59 GHz VNT 2- 62 dB • R | -43.71 dBr -42.02 dBr DH5 240 BW 100 kHz | m D2MHz / Mode A | uto FFT | -Hoppir | ng Ref | |
| M3 M4 Spectrum Ref Level 2 Att SGL Count 1 91Pk Max | 1 1 Band 27.62 dBm 40 dB | 2 2.490 Edge N Offset 7. | .5 GHz 59 GHz VNT 2- 62 dB • R | -43.71 dBr -42.02 dBr DH5 240 BW 100 kHz | m D2MHz / Mode A | | -Hoppir | | (∆ 5.33 dBm |
| M3 M4 Spectrum Ref Level 2 Att SGL Count 1 | 1 1 Band 27.62 dBm 40 dB | 2 2.490 Edge N Offset 7. | .5 GHz 59 GHz VNT 2- 62 dB • R | -43.71 dBr -42.02 dBr DH5 240 BW 100 kHz | m D2MHz / Mode A | uto FFT | 0-Hoppin | | |
| M3 M4 Spectrum Ref Level 2 Att SGL Count 1 91Pk Max | 1 1 Band 27.62 dBm 40 dB | 2 2.490 Edge N Offset 7. | .5 GHz 59 GHz VNT 2- 62 dB • R | -43.71 dBr -42.02 dBr DH5 240 BW 100 kHz | m D2MHz / Mode A | uto FFT | 0-Hoppin | | (∆ 5.33 dBm |
| M3 M4 Spectrum Ref Level 2 Att SGL Count 1 91Pk Max 20 dBm 10 dBm | 1 1 Band 27.62 dBm 40 dB | 2 2.490 Edge N Offset 7. | .5 GHz 59 GHz VNT 2- 62 dB • R | -43.71 dBr -42.02 dBr DH5 240 BW 100 kHz | Mode A | uto FFT | 0-Hoppir | | (∆ 5.33 dBm |
| M3 M4 Spectrum Ref Level 2 Att SGL Count 1 91Pk Max 20 dBm 10 dBm | 1 1 Band 27.62 dBm 40 dB | 2 2.490 Edge N Offset 7. | .5 GHz 59 GHz VNT 2- 62 dB • R | -43.71 dBr -42.02 dBr DH5 240 BW 100 kHz | Mode A | uto FFT | p-Hoppin | | (∆ 5.33 dBm |
| M3 M4 Spectrum Ref Level 2 Att SGL Count 1 91Pk Max 20 dBm | 1 1 Band 27.62 dBm 40 dB | 2 2.490 Edge N Offset 7. | .5 GHz 59 GHz VNT 2- 62 dB • R | -43.71 dBr -42.02 dBr DH5 240 BW 100 kHz | Mode A | uto FFT | p-Hoppin | | (∆ 5.33 dBm |
| M3 M4 Spectrum Ref Level 2 Att SGL Count 1 91Pk Max 20 dBm 10 dBm | 1 1 Band 27.62 dBm 40 dB | 2 2.490 Edge N Offset 7. | .5 GHz 59 GHz VNT 2- 62 dB • R | -43.71 dBr -42.02 dBr DH5 240 BW 100 kHz | Mode A | uto FFT | p-Hoppir | | (∆ 5.33 dBm |
| M3 M4 Spectrum Ref Level 2 Att SGL Count 1 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm | 1 1 Band 27.62 dBm 40 dB | 2 2.490 Edge N Offset 7. | .5 GHz 59 GHz VNT 2- 62 dB • R | -43.71 dBr -42.02 dBr DH5 240 BW 100 kHz | Mode A | uto FFT | p-Hoppin | | (∆ 5.33 dBm |
| M3 M4 Spectrum Ref Level 2 Att SGL Count 1 PIPk Max 20 dBm 10 dBm | 1 1 Band 27.62 dBm 40 dB | 2 2.490 Edge N Offset 7. | .5 GHz 59 GHz VNT 2- 62 dB • R | -43.71 dBr -42.02 dBr DH5 240 BW 100 kHz | Mode A | uto FFT | p-Hoppin | | (∆ 5.33 dBm |
| M3 M4 Spectrum Ref Level 2 Att SGL Count 1 91Pk Max 20 dBm 10 dBm 0 dBm | 1 1 Band 27.62 dBm 40 dB | 2 2.490 Edge N Offset 7. | 5 GHz 59 GHz VNT 2- 62 dB • R 3.9 μs • V | -43.71 dBr -42.02 dBr DH5 240 BW 100 kHz BW 300 kHz | Mode A | uto FFT | p-Hoppir | | (∆ 5.33 dBm |
| M3 M4 Spectrum Ref Level 2 Att SGL Count 1 SGL Count 1 PIPk Max 20 dBm 0 10 dBm 0 20 dBm 0 30 dBm 0 40 dBm | 1 1 Band 27.62 dBm 40 dB | 2 2.490 Edge N Offset 7. | .5 GHz 59 GHz VNT 2- 62 dB • R | -43.71 dBr -42.02 dBr DH5 240 BW 100 kHz BW 300 kHz | Mode A | uto FFT | p-Hoppin | | (∆ 5.33 dBm |
| M3 M4 Spectrum Ref Level 2 Att SGL Count 1 9 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm | 1 1 Band 27.62 dBm 40 dB | 2 2.490 Edge N Offset 7. | 5 GHz 59 GHz VNT 2- 62 dB • R 3.9 μs • V | -43.71 dBr -42.02 dBr DH5 240 BW 100 kHz BW 300 kHz | Mode A | uto FFT | p-Hoppin | | (∆ 5.33 dBm |
| M3 M4 Spectrum Ref Level 2 Att SGL Count 1 SGL Count 1 PIPk Max 20 dBm 0 10 dBm 0 -20 dBm | 1 1 Band 27.62 dBm 40 dB | 2 2.490 Edge N Offset 7. | 5 GHz 59 GHz VNT 2- 62 dB • R 3.9 μs • V | -43.71 dBr -42.02 dBr DH5 240 BW 100 kHz BW 300 kHz | Mode A | uto FFT | p-Hoppin | | (∆ 5.33 dBm |
| M3 M4 Spectrum Ref Level 2 Att SGL Count 1 SGL Count 1 PIPk Max 20 dBm 0 10 dBm 0 20 dBm 0 30 dBm 0 40 dBm | 1 1 Band 27.62 dBm 40 dB | 2 2.490 Edge N Offset 7. | 5 GHz 59 GHz VNT 2- 62 dB • R 3.9 μs • V | -43.71 dBr -42.02 dBr DH5 240 BW 100 kHz BW 300 kHz | Mode A | uto FFT | p-Hoppin | | (∆ 5.33 dBm |



| Ref Level Att SGL Count 1Pk Max | 1 27.62 dBm 40 dB t 100/100 | | 7.62 dB 👄 R 27.5 µs 👄 V | | | luto FFT | | | |
|---|--|------------------------------|--|------------------------|------------------------|--------------|-----------------------|-----------------------------------|------------------------|
| 20 dBm | | | | | M | 1[1] | | 2 402 | 4.17 dBm 05000 GHz |
| 10 dBm | | | | | M: | 2[1] | | - | 46.92 dBm 0000016Hz |
| 0 dBm | | | | | | | | | <u>X</u> |
| -10 dBm— | | | | | | | | | |
| -20 dBm— | -D1 -14.666 | dBm | | | | | | | |
| -30 dBm— | | | M4 | | | | | | |
| -40 dBm— | | a tradici | | und-lookanny | | Liter and to | | MB | Ma |
| -50 dBm- | nerumaniterra | eren waya waa | and a second | | en ganader and | www.willere | Alfrican a sulley and | M3 Null <mark>a</mark> thankal | outotude ouro |
| -60 dBm— | | | | | | | | | |
| -70 dBm | 16 GHz | | | 1001 | nts | | | Stop | 2.406 GHz |
| Marker Type Re | | | | 1001 | prs | | | 3000 | 2.400 GH2 |
| MЗ | | | | | | | | | |
| M4 | and Edg | 2.34 | 39 GHz 05 GHz Ding) NV | -46.05 dB -40.38 dB | m |) 2MHz A | Ant1 Hoj | oping R | ef |
| B Spectrur Ref Level Att SGL Count | | 2.34 ge(Hopp Offset 7. | 05 GHz | -40.38 dB | m H5 240 | | Ant1 Hop | oping R | ef |
| B Spectrur Ref Level Att | 1 Band Edg m 1 27.62 dBm 40 dB | 2.34 ge(Hopp Offset 7. | 05 GH2 Ding) N\ 62 dB ● RE | -40.38 dB | m H5 240 Mode At | | Ant1 Hop | | 5.96 dBm |
| B Spectrur Ref Level Att SGL Count | 1 Band Edg m 1 27.62 dBm 40 dB | 2.34 ge(Hopp Offset 7. | 05 GH2 Ding) N\ 62 dB ● RE | -40.38 dB | m H5 240 Mode At | uto FFT | Ant1 Hop | | |
| B Spectrur Ref Level Att SGL Count 1Pk Max | 1 Band Edg m 1 27.62 dBm 40 dB | 2.34 ge(Hopp Offset 7. | 05 GH2 Ding) N\ 62 dB ● RE | -40.38 dB | m H5 240 Mode At | uto FFT | Ant1 Hop | | 5.96 dBm |
| B Spectrur Ref Level Att SGL Count 1Pk Max 20 dBm- | 1 Band Edg m 1 27.62 dBm 40 dB | 2.34 ge(Hopp Offset 7. | 05 GH2 Ding) N\ 62 dB ● RE | -40.38 dB | m H5 240 Mode At | uto FFT | | | 5.96 dBm |
| B Spectrur Ref Level Att SGL Count 1Pk Max 20 dBm- 10 dBm- | 1 Band Edg m 1 27.62 dBm 40 dB | 2.34 ge(Hopp Offset 7. | 05 GH2 Ding) N\ 62 dB ● RE | -40.38 dB | m H5 240 Mode At | uto FFT | | | 5.96 dBm |
| B Spectrur Ref Level Att SGL Count IPk Max 20 dBm- 10 dBm- 0 dBm- | 1 Band Edg m 1 27.62 dBm 40 dB | 2.34 ge(Hopp Offset 7. | 05 GH2 Ding) N\ 62 dB ● RE | -40.38 dB | m H5 240 Mode At | uto FFT | | | 5.96 dBm |
| B Spectrur Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm | 1 Band Edg m 1 27.62 dBm 40 dB | 2.34 ge(Hopp Offset 7. | 05 GH2 Ding) N\ 62 dB ● RE | -40.38 dB | m H5 240 Mode At | uto FFT | | | 5.96 dBm |
| B Spectrur Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm | 1 Band Edg m 1 27.62 dBm 40 dB | 2.34 ge(Hopp Offset 7. | 05 GH2 Ding) N\ 62 dB ● RE | -40.38 dB | m H5 240 Mode At | uto FFT | | | 5.96 dBm |
| B Spectrur Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm | 1 Band Edg m 1 27.62 dBm 40 dB | 2.34 ge(Hopp Offset 7. | 05 GH2 Ding) N\ 62 dB ● RE | -40.38 dB | m H5 240 Mode At | uto FFT | | | 5.96 dBm |
| B Spectrur Ref Level Att SGL Count 10 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm | 1 Band Edg m 1 27.62 dBm 40 dB | 2.34 ge(Hopp Offset 7. | 05 GH2 Ding) N\ 62 dB ● RE | -40.38 dB | m H5 240 Mode At | uto FFT | | | 5.96 dBm |
| B Spectrur Ref Level Att SGL Count 10 dBm 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm | 1 Band Edg m 1 27.62 dBm 40 dB | 2.34 ge(Hopp Offset 7. | 05 GH2 Ding) N\ 62 dB ● RE | -40.38 dB | m H5 240 Mode At | uto FFT | | | 5.96 dBm |



| Ref Level 27.62 d Att 40 | | | RBW 100 kHz VBW 300 kHz | | Auto FFT | | | |
|---|--|--------------------------------|---------------------------------------|------------|----------------------|-----------------|-------------|------------------------|
| SGL Count 1000/10 1Pk Max | 000 | | | | | | | |
| 20 dBm | | | | м | 1[1] | | 2 402 | 5.18 dBm 15000 GHz |
| 10 dBm | | | | M | 2[1] | | - | 44.41 dBm 00000%GHz |
|) dBm | | | | | | | | Linu |
| 10 dBm | 000 40- | | | | | | | |
| 20 dBm | 036 dBm | | | | | | | |
| 30 dBm | | | | | | | | |
| 40 dBm | الدينية المراجع | monter | M4 | w.h.m.m.m. | an an an all the | unne generation | M3 | M2 |
| 50 dBm | and the state of t | | | | Creecing and Million | er ward and a | eren forman | - News |
| 60 dBm | | | | | | | | |
| 70 dBm | | | | | | | | |
| Start 2.306 GHz Iarker | | | 1001 | pts | | | Stop 2 | 2.406 GHz |
| Type Ref Trc | X-value | | Y-value 5.18 dBr | Func | tion | Fund | tion Result | |
| M1 1 M2 1 | 2 | 2.4 GHz | -44.41 dBr | | | | | |
| M3 1 | 2. | 39 GHz | 44 50 404 | 20 | | | | |
| | | 86 GHz | -44.59 dBr -40.09 dBr -DH5 248 | n |) and Ant1 No | o-Hoppin | ng Ref | |
| Bar Spectrum Ref Level 27.60 d | 2.34 nd Edge N IBm Offset 7 | 86 GHZ VNT 2- .60 dB • F | -40.09 dBr | BOMHz / | | o-Hoppir | ng Ref | |
| Bar Spectrum Ref Level 27.60 d Att 40 SGL Count 100/100 | 2.34 nd Edge N IBm Offset 7 dB SWT 1 | 86 GHZ VNT 2- .60 dB • F | -40.09 dBr -DH5 248 RBW 100 kHz | BOMHz / | | -Hoppir | ng Ref | |
| Bar Spectrum Ref Level 27.60 d Att 40 SGL Count 100/100 | 2.34 nd Edge N IBm Offset 7 dB SWT 1 | 86 GHZ VNT 2- .60 dB • F | -40.09 dBr -DH5 248 RBW 100 kHz | Mode A | | D-Hoppin | | 5.75 dBm |
| Bar Spectrum Ref Level 27.60 d | 2.34 nd Edge N IBm Offset 7 dB SWT 1 | 86 GHZ VNT 2- .60 dB • F | -40.09 dBr -DH5 248 RBW 100 kHz | Mode A | uto FFT | o-Hoppin | | |
| Bar Spectrum Ref Level 27.60 d Att 40 SGL Count 100/100 PIPk Max | 2.34 nd Edge N IBm Offset 7 dB SWT 1 | 86 GHZ VNT 2- .60 dB • F | -40.09 dBr -DH5 248 RBW 100 kHz | Mode A | uto FFT | o-Hoppir | | 5.75 dBm |
| Bar Spectrum Ref Level 27.60 d Att 40 SGL Count 100/100 10Pk Max 20 dBm 0 dBm | 2.34 nd Edge N IBm Offset 7 dB swr 1 | 86 GHZ VNT 2- .60 dB • F | -40.09 dBr -DH5 248 RBW 100 kHz | Mode A | uto FFT | 0-Hoppin | | 5.75 dBm |
| Bar Spectrum Ref Level 27.60 d Att 40 SGL Count 100/100 10Pk Max 20 dBm 0 dBm | 2.34 nd Edge N IBm Offset 7 dB swr 1 | 86 GHZ VNT 2- .60 dB • F | -40.09 dBr -DH5 248 RBW 100 kHz | Mode A | uto FFT | p-Hoppin | | 5.75 dBm |
| Bar Spectrum Ref Level 27.60 d Att 40 SGL Count 100/100 10Pk Max 20 dBm 0 dBm | 2.34 nd Edge N IBm Offset 7 dB swr 1 | 86 GHZ VNT 2- .60 dB • F | -40.09 dBr -DH5 248 RBW 100 kHz | Mode A | uto FFT | p-Hoppin | | 5.75 dBm |
| Bar Spectrum Ref Level 27.60 d Att 40 SGL Count 100/100 10Pk Max 20 dBm 0 dBm 10 dBm | 2.34 nd Edge N IBm Offset 7 dB swr 1 | 86 GHZ VNT 2- .60 dB • F | -40.09 dBr -DH5 248 RBW 100 kHz | Mode A | uto FFT | p-Hoppin | | 5.75 dBm |
| Bar Spectrum Ref Level 27.60 d Att 40 SGL Count 100/100 101Pk Max 20 dBm 0 dBm 10 dBm 20 dBm 20 dBm | 2.34 nd Edge N IBm Offset 7 dB swr 1 | 86 GHZ VNT 2- .60 dB • F | -40.09 dBr -DH5 248 RBW 100 kHz | Mode A | uto FFT | p-Hoppin | | 5.75 dBm |
| Bar Spectrum Ref Level 27.60 d Att 40 SGL Count 100/100 101Pk Max 20 dBm 0 dBm 10 dBm 10 dBm 20 dBm 30 dBm | 2.34 nd Edge N IBm Offset 7 dB swr 1 | 86 GHZ VNT 2- .60 dB • F | -40.09 dBr | Mode A | uto FFT | p-Hoppin | | 5.75 dBm |
| Bar Spectrum Ref Level 27.60 d Att 40 SGL Count 100/100 DIPk Max 20 dBm 10 dBm 10 dBm 20 dBm 40 dBm | 2.34 nd Edge N IBm Offset 7 dB swr 1 | 86 GH2 | -40.09 dBr | Mode A | uto FFT | p-Hoppin | | 5.75 dBm |
| Bar Spectrum Ref Level 27.60 d Att 40 SGL Count 100/101 01Pk Max 20 dBm 0 dBm 10 dBm 20 dBm 10 dBm 40 dBm 40 dBm | 2.34 nd Edge N IBm Offset 7 dB swr 1 | 86 GH2 | -40.09 dBr | Mode A | uto FFT | p-Hoppin | | 5.75 dBm |
| Bar Spectrum Ref Level 27.60 d Att 40 SGL Count 100/100 10Pk Max 20 dBm 10 dBm 10 dBm 20 dBm 30 dBm 40 dBm | 2.34 nd Edge N IBm Offset 7 dB swr 1 | 86 GH2 | -40.09 dBr | Mode A | uto FFT | p-Hoppin | | 5.75 dBm |
| Bar Spectrum Ref Level 27.60 d Att 40 SGL Count 100/101 101Pk Max 20 dBm 0 dBm 10 dBm 20 dBm 10 dBm 40 dBm 50 dBm | 2.34 nd Edge N IBm Offset 7 dB swr 1 | 86 GH2 | -40.09 dBr | Mode A | uto FFT | | | 5.75 dBm |



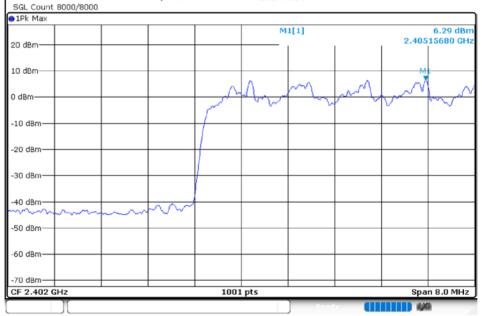
| pect | | L | | | | | | | | |
|--|-------------------------------|-----------------|---|-------------------|--------------------------|--|--------------|--|--------------|-----------------------|
| ef Le tt | vel 2 | 7.60 dB 40 i | | | RBW 100 kH VBW 300 kH | | Auto FFT | | | |
| | ount 1 | 00/100 | | | - 1211 000 KH | | AND FFT | | | |
| lPk M | ах | | | | | | | | | |
|) dBm | | | | | | M | 1[1] | | 2 490 | 4.87 dBm 15000 GHz |
| o abiii | | | | | | м | 2[1] | | | 45.24 dBm |
| | + | | | | | | 1 | | 2.483 | 50000 GHz |
| d8m- | + | | | | _ | | | | | |
| 0 cBn | | | | | | | | | | |
| о свп | D | 1 -14.2 | 52 dBm | | | | | | | |
| 0 dBn | ∩+ | | | <u> </u> | | | | | | |
| 0 dBn | ∩— | | _ | ļ | | | | | | |
| 77 | | M4 | | | | | | | | |
| 0 dBn | m2 Mush | dellar | M3 | alien phines | when when when | Martin Martha | and works | and me and | all manaruly | an an an and |
| i0 dBn | | erre i re | | | | 1. 19 . W. 19 . 19 . 19 . 19 . 19 . 19 . | | and a contract of the contract | 10 . | An acceler |
| 50 dBn | | | | | | | | | | |
| | | | | | | | | | | |
| 70 dBn | n | CH2 | | | 1001 | nts | | | Stor | 2.576 GHz |
| arker | .470 | GHZ | | | 1001 | pts | | | Stup 2 | 2.370 GHZ |
| | Ref | Trc | X-valu | e | Y-value | Func | tion | Fund | tion Result | |
| M1 | | 1 | | 15 GHz | 4.87 dB | | | | | |
| M2 M3 | | 1 | | 35 GHz 2.5 GHz | -45.24 dB -46.00 dB | | | | | |
| | | | | | | | | | | |
| M4 | | nd E | 2.49 | 05 GHz | -42.92 dB | m |) BOMHz / | o 🚺 Ant1 Ho | pping R | |
| pect | rum | | 2.49 dge(Hop m Offset 7 | ping) N | -42.92 dB | m H5 248 | | Ant1 Ho | pping Re | ef |
| pect tef Le | rum vel 2 ount 8 | nd E | 2.49 dge(Hop m Offset 7 db swr 1 | ping) N | -42.92 dB | m H5 248 | | Ant1 Ho | pping R | |
| ipect Ref Le | rum vel 2 ount 8 | nd E | 2.49 dge(Hop m Offset 7 db swr 1 | ping) N | -42.92 dB | m 145 248 Mode A | uto FFT | Ant1 Ho | pping R | |
| pect tef Le GL Co LPk M | vel 2 ount 8 ax | nd E | 2.49 dge(Hop m Offset 7 db swr 1 | ping) N | -42.92 dB | m 145 248 Mode A | | Ant1 Ho | | |
| pect tef Le Mtt GGL Co 1Pk M | vel 2 ount 8 ax | nd E | 2.49 dge(Hop m Offset 7 db swr 1 | ping) N | -42.92 dB | m 145 248 Mode A | uto FFT | Ant1 Ho | | 7.11 dBm |
| pect ef Le tt GL Co LPk M | ovel 2 ount 8 ax | nd E | 2.49 dge(Hop m Offset 7 db swr 1 | ping) N | -42.92 dB | m 145 248 Mode A | uto FFT | Ant1 Ho | | 7.11 dBm |
| pect ef Le GL Co IPk M) dBm) dBm | ovel 2 ount 8 ax | nd E | 2.49 dge(Hop m Offset 7 db swr 1 | ping) N | -42.92 dB | m 145 248 Mode A | uto FFT | Ant1 Ho | | 7.11 dBm |
| pect ef Le tt GL Co Pk M I dBm | ovel 2 ount 8 ax | nd E | 2.49 dge(Hop m Offset 7 db swr 1 | ping) N | -42.92 dB | m 145 248 Mode A | uto FFT | Ant1 Ho | | 7.11 dBm |
| pect ef Le tt GL Cr Pk M) dBm) dBm | ax | nd E | 2.49 dge(Hop m Offset 7 db swr 1 | ping) N | -42.92 dB | m 145 248 Mode A | uto FFT | Ant1 Ho | | 7.11 dBm |
| ipect tef Lef LGL Cr IPk M J dBm J dBm J dBm | ax | nd E | 2.49 dge(Hop m Offset 7 db swr 1 | ping) N | -42.92 dB | m 145 248 Mode A | uto FFT | Ant1 Ho | | 7.11 dBm |
| pect ef Le GL Cc IPk M) dBm) dBm 0 dBm | ax | nd E | 2.49 dge(Hop m Offset 7 db swr 1 | ping) N | -42.92 dB | m 145 248 Mode A | uto FFT | Ant1 Ho | | 7.11 dBm |
| ipect tef Le tt GL Co 1Pk M D dBm D dBm - O dBm | ax | nd E | 2.49 dge(Hop m Offset 7 db swr 1 | ping) N | -42.92 dB | m 145 248 Mode A | uto FFT | Ant1 Ho | | 7.11 dBm |
| ipect Ref Le IPk M D dBm D dBm dBm D dBm 0 dBm | arum 2 punt 8 ax | nd E | 2.49 dge(Hop m Offset 7 db swr 1 | ping) N | -42.92 dB | m 145 248 Mode A | uto FFT | Ant1 Ho | | 7.11 dBm |
| pect tt GLCC PKM IdBm IdBm OdBm 0 dBm | arum 2 punt 8 ax | nd E | 2.49 dge(Hop m Offset 7 db swr 1 | ping) N | -42.92 dB | m 145 248 Mode A | uto FFT | Ant1 Ho | | 7.11 dBm |
| pect ef Le tt GL Co Pk M) dBm) dBm 0 dBm 0 dBn 0 dBn | arum vel 2 punt 8 ax | nd E | 2.49 dge(Hop m Offset 7 db swr 1 | ping) N | -42.92 dB | m 145 248 Mode A | uto FFT | Ant1 Ho | | 7.11 dBm |
| pect tef Le GL Co IPk M D dBm D dBm D dBm 0 dBm 0 dBm | arum vel 2 punt 8 ax | nd E | 2.49 dge(Hop m Offset 7 db swr 1 | ping) N | -42.92 dB | m 145 248 Mode A | uto FFT | Ant1 Ho | | 7.11 dBm |
| pect ef Le tt J dBm J dBm | rum vel 2 Junt 8 ax | nd E | 2.49 dge(Hop m Offset 7 db swr 1 | ping) N | -42.92 dB | m 145 248 Mode A | uto FFT | Ant1 Ho | | 7.11 dBm |
| pect Ref Le Att GGL Co | rum vel 2 Junt 8 ax | nd E | 2.49 dge(Hop m Offset 7 db swr 1 | ping) N | -42.92 dB | m 145 248 Mode A | uto FFT | Ant1 Ho | | 7.11 dBm |
| pect ef Le GL Co PK M) dBm) dBm) dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm | | nd E | 2.49 dge(Hop m Offset 7 db swr 1 | ping) N | -42.92 dB | m 145 248 Mode A | uto FFT | Ant1 Ho | | 7.11 dBm |
| pect ef Le tt <u>GL CC</u> PK M) dBm) dBm 0 dBm 0 dBm 0 dBm | | nd E | 2.49 dge(Hop m Offset 7 db swr 1 | ping) N | -42.92 dB | m 145 248 Mode A | uto FFT | Ant1 Ho | | 7.11 dBm |
| Dect af Le tt dBm dBm dBm dBm dBm dBm dBm dBm | | M1 | 2.49 dge(Hop m Offset 7 db swr 1 | ping) N | -42.92 dB | Mode A | uto FFT | Ant1 Ho | 2.477 | 7.11 dBm |



| RefLevel 27.60 da Att 40 | | | RBW 100 kHz VBW 300 kHz | | Auto FFT | | | |
|---|---|-------------------------------|---|-------------------|-------------------|----------------------------------|--------------|------------------------|
| 5GL Count 1000/10 | | | | - Mode / | 440000 | | | |
| 1Pk Max | | | | | 4741 | | | E 1E dBm |
| 0 dBm | | | | | 1[1] | | 2.478 | 5.15 dBm 05000 GHz |
| adBm | | | | M | 2[1] | | | 43.21 dBm 50000 GHz |
| #8m | | | | | | | | |
| LO cBm D1 -12.6 | 993 dBm | | | | | | | |
| 20 GBm | | | | | | | | |
| 10 dBm M2 M4 | | | | | | | | |
| 10 dBm | to pure with got man | militaria | munnundy | gen shallow you | thenmantyline | konerether _d enseeder | www.pusher | alay you have a start |
| 50 dBm | | | | | | | | |
| 70 dBm | | | | | | | | |
| tart 2.476 GHz | | | 1001 | pts | | | Stop : | 2.576 GHz |
| arker Type Ref Trc | X-value | | Y-value | Fund | tion | Fund | tion Result | |
| M1 1 | 2.478 | 05 GHz | 5.15 dBr | m | | T dife | cion ressure | |
| M2 1 M3 1 | 2.48 | 35 GHz | -43.21 dBr | | | | | |
| | | | | | | | | |
| M4 1 Ban | 2.48 d Edge N | | | m |) Room Ant1 No | D-Hoppir | ng Ref | |
| Ban Bectrum tef Level 27.62 di | 2.48 d Edge N 3m Offset 7. dB SWT 14 | 87 GH2 VNT 3- 62 dB • R | -42.19 dBr | m | | o-Hoppir | ng Ref | |
| M4 1 Ban pectrum tef Level 27.62 di tt 40 GGL Count 300/300 | 2.48 d Edge N 3m Offset 7. dB SWT 14 | 87 GH2 VNT 3- 62 dB • R | -42.19 dBr DH5 240 |)2MHz | | D-Hoppir | ng Ref | |
| M4 1 Ban pectrum tef Level 27.62 di tt 40 GGL Count 300/300 | 2.48 d Edge N 3m Offset 7. dB SWT 14 | 87 GH2 VNT 3- 62 dB • R | -42.19 dBr DH5 240 |)2MHz / Mode A | uto FFT | o-Hoppir | ng Ref | |
| M4 1 Ban Ref Level 27.62 di Ref Level 27.62 di Ref Level 20.300 IPk Max | 2.48 d Edge N 3m Offset 7. dB SWT 14 | 87 GH2 VNT 3- 62 dB • R | -42.19 dBr DH5 240 |)2MHz / Mode A | | p-Hoppir | | 5.01 dBm 15180 GHz |
| M4 1 Ban Ref Level 27.62 di Att 40 GGL Count 300/300 1Pk Max 0 dBm | 2.48 d Edge N 3m Offset 7. dB SWT 14 | 87 GH2 VNT 3- 62 dB • R | -42.19 dBr DH5 240 BW 100 kHz BW 300 kHz |)2MHz / | uto FFT | p-Hoppir | | Δ 5.01 dBm |
| M4 1 Ban pectrum tef Level 27.62 di ttt 40 GGL Count 300/300 IPk Max 0 dBm 0 dBm | 2.48 d Edge N 3m Offset 7. dB SWT 14 | 87 GH2 VNT 3- 62 dB • R | -42.19 dBr DH5 240 BW 100 kHz BW 300 kHz |)2MHz / Mode A | uto FFT | p-Hoppir | | Δ 5.01 dBm |
| M4 1 Ban pectrum tef Level 27.62 di ttt 40 GGL Count 300/300 IPk Max 0 dBm dBm | 2.48 d Edge N 3m Offset 7. dB SWT 14 | 87 GH2 VNT 3- 62 dB • R | -42.19 dBr DH5 240 BW 100 kHz BW 300 kHz |)2MHz / | uto FFT | p-Hoppir | | Δ 5.01 dBm |
| M4 1 Ban pectrum tef Level 27.62 di tet 100/300 IPk Max 0 dBm 0 dBm 0 dBm | 2.48 d Edge N 3m Offset 7. dB SWT 14 | 87 GH2 VNT 3- 62 dB • R | -42.19 dBr DH5 240 BW 100 kHz BW 300 kHz |)2MHz / | uto FFT | p-Hoppir | | Δ 5.01 dBm |
| M4 1 Ban Spectrum 40 SGL Count 300/300 10 IPK Max 0 dBm 0 dBm 0 dBm 10 dBm 10 10 10 | 2.48 d Edge N 3m Offset 7. dB SWT 14 | 87 GH2 VNT 3- 62 dB • R | -42.19 dBr DH5 240 BW 100 kHz BW 300 kHz |)2MHz / | uto FFT | p-Hoppir | | Δ 5.01 dBm |
| M4 1 Ban Spectrum 40 SGL Count 300/300 10 IPK Max 0 dBm 0 dBm 0 dBm 10 dBm 20 dBm 20 | 2.48 d Edge N 3m Offset 7. dB SWT 14 | 87 GH2 VNT 3- 62 dB • R | -42.19 dBr DH5 240 BW 100 kHz BW 300 kHz |)2MHz / | uto FFT | p-Hoppir | | Δ 5.01 dBm |
| M4 1 Ban spectrum 40 SGL Count 300/300 10 IPK Max 0 dBm 0 dBm 0 dBm 10 dBm 0 0 0 20 dBm 0 0 0 0 10 dBm 10 0 10 10 10 20 dBm 20 0 0 10 <th10< th=""> <t< td=""><td>2.48 d Edge N 3m Offset 7. dB SWT 14</td><td>87 GH2 VNT 3- 62 dB • R</td><td>-42.19 dBr DH5 240 BW 100 kHz BW 300 kHz</td><td>)2MHz /</td><td>uto FFT</td><td>p-Hoppir</td><td></td><td>Δ 5.01 dBm</td></t<></th10<> | 2.48 d Edge N 3m Offset 7. dB SWT 14 | 87 GH2 VNT 3- 62 dB • R | -42.19 dBr DH5 240 BW 100 kHz BW 300 kHz |)2MHz / | uto FFT | p-Hoppir | | Δ 5.01 dBm |
| M4 1 Ban spectrum Ref Level 27.62 dl M4 40 SGL Count 300/300 IPK Max 0 dBm 0 dBm 0 dBm 0 dBm 80 dBm 80 dBm 40 dBm | 2.48 d Edge N 3m Offset 7. dB SWT 14 | 87 GH2 VNT 3- 62 dB • R | -42.19 dBr DH5 240 BW 100 kHz BW 300 kHz |)2MHz / | uto FFT | p-Hoppir | | Δ 5.01 dBm |
| M4 1 Ban Ban Spectrum 27.62 di Mt 40 SGL Count 300/300 1Pk Max D dBm 0 D dBm 0 00 dBm 0 | 2.48 d Edge N 3m Offset 7. dB SWT 14 | 87 GH2 VNT 3- 62 dB • R | -42.19 dBr DH5 240 BW 100 kHz BW 300 kHz |)2MHz / | uto FFT | p-Hoppir | | Δ 5.01 dBm |
| M4 1 Ban Spectrum Ref Level 27.62 di | 2.48 d Edge N 3m Offset 7. dB SWT 14 | 87 GH2 VNT 3- 62 dB • R | -42.19 dBr DH5 240 BW 100 kHz BW 300 kHz |)2MHz / | uto FFT | p-Hoppir | | Δ 5.01 dBm |



| | | | | M1[1] | 2.40 | 6.14 dBm 185000 GHz |
|---------------------------------|------------|--------------------------------|----------------------|----------|-----------------------------|-------------------------|
| | | | | M2[1] | | -45.99 dBm |
| .0 dBm | | | | | 2.40 | 000000 ¹ снz |
| dBm | | | | | | |
| | | | | | | 1 0 1 |
| 10 dBm | 01 -14.995 | dam | | | | |
| 20 dBm | /1 -14.995 | , doin | | | | |
| 20 d0m | | | | | | |
| 30 dBm | | M4 | | | | |
| 40 dBm — | | _ | | | M3 | MA |
| հ վչութեսչչվ 50 dBm—— | MUNIMUM | of the second which the second | would be an and when | mallow | when monound and the second | and the second |
| | | | | | | |
| 60 dBm | | | | | | |
| 70 dBm | | | | | | |
| tart 2.306 | GHz | | 1001 pt | s | Stop | 2.406 GHz |
| arker | 1 - 1 | | | | | |
| Type Ref M1 | Trc 1 | 2.40185 GHz | Y-value 6.14 dBm | Function | Function Resul | t |
| M2 | 1 | 2.4 GHz | -45.99 dBm | | | |
| 1712 | 1 | 2.39 GHz | -43.91 dBm | | | |
| MЗ | | | -41.37 dBm | | | |
| | 1 | 2.342 GHz | | | | |





| Ref Level Att | 27.62 dBm 40 dB | | | RBW 100 kHz VBW 300 kHz | Mode A | uto FFT | | | ` |
|---|---------------------------------|------------------------------|--------|---|-------------------|---------------|--|-------------|--------------------------|
| SGL Count | 1000/1000 | | | | | | | | |
| - | | | | | M | 1[1] | | | 1.30 dBm |
| 20 dBm | | | | | | 2[1] | | | 605000 GHz -43.20 dBm |
| 10 dBm | | | | | | 2[1] | 1 | | 000000 GHz M1 |
| 0 dBm | | | | | | | | | MM |
| -10 dBm | D1 -13.709 | dam | | | | | | | |
| -20 dBm— | 01 -13.709 | | | | | | | | |
| -30 dBm | | | | M4 | | | | | |
| -40 dBm مرابا العام المالي | and when all the | ortherence | mound | | المحمد والمساهد | and have also | he have have have been and have been a series of the serie | MO. | M2 |
| -50 dBm— | | | | | | | | | |
| -60 dBm | | | | | | | | | |
| -70 dBm | | | | | | | | | |
| Start 2.300 Marker | 6 GHz | | | 1001 p | ots | | | Stop | 2.406 GHz |
| | f Trc | X-value | • | Y-value | Funct | tion | Fund | tion Result | : |
| M1 M2 | 1 | | 05 GHz | 1.30 dBm -43.20 dBm | | | | | |
| M3 | | 2 | | | | | | | |
| 1413 | 1 | 2.3 | 39 GHz | -44.64 dBm | | | | | |
| M4 Spectrum | Band | 2.350 | 07 GHz | -44.64 dBm -40.84 dBm -DH5 2480 | | Ant1 No | b-Hoppin | ng Ref | |
| M4 Spectrum | Band | 2.350 Edge N Offset 7. | VNT 3 | -40.84 dBm | 0MHz / | | o-Hoppin | ng Ref | |
| M4 Spectrum Ref Level Att SGL Count | 1 Band 27.60 dBm 40 dB | 2.350 Edge N Offset 7. | VNT 3 | -40.84 dBm -DH5 248(RBW 100 kHz | 0MHz / | | o-Hoppin | ng Ref | |
| M4 Spectrum Ref Level Att | 1 Band 27.60 dBm 40 dB | 2.350 Edge N Offset 7. | VNT 3 | -40.84 dBm -DH5 248(RBW 100 kHz | OMHZ / Mode Au | uto FFT | o-Hoppin | ng Ref | |
| M4 Spectrum Ref Level Att SGL Count 1Pk Max | 1 Band 27.60 dBm 40 dB | 2.350 Edge N Offset 7. | VNT 3 | -40.84 dBm -DH5 248(RBW 100 kHz | OMHZ / Mode Au | | b-Hoppin | | 7.30 dBm 115180 GHz |
| M4 Spectrum Ref Level Att SGL Count | 1 Band 27.60 dBm 40 dB | 2.350 Edge N Offset 7. | VNT 3 | -40.84 dBm -DH5 248(RBW 100 kHz VBW 300 kHz | OMHZ / Mode Au | uto FFT | p-Hoppir | | |
| M4 Spectrum Ref Level Att SGL Count 1Pk Max | 1 Band 27.60 dBm 40 dB | 2.350 Edge N Offset 7. | VNT 3 | -40.84 dBm -DH5 248(RBW 100 kHz VBW 300 kHz | OMHZ / Mode Au | uto FFT | b-Hoppin | | |
| M4 Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm | 1 Band 27.60 dBm 40 dB | 2.350 Edge N Offset 7. | VNT 3 | -40.84 dBm -DH5 248(RBW 100 kHz VBW 300 kHz | OMHZ / Mode Au | uto FFT | b-Hoppin | | |
| M4 Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm- 10 dBm- | 1 Band 27.60 dBm 40 dB | 2.350 Edge N Offset 7. | VNT 3 | -40.84 dBm -DH5 248(RBW 100 kHz VBW 300 kHz | OMHZ / Mode Au | uto FFT | p-Hoppir | | |
| M4 Spectrum Ref Level Att SGL Count O dBm 0 dBm 0 dBm | 1 Band 27.60 dBm 40 dB | 2.350 Edge N Offset 7. | VNT 3 | -40.84 dBm -DH5 248(RBW 100 kHz VBW 300 kHz | OMHZ / Mode Au | uto FFT | p-Hoppin | | |
| M4 Spectrum Ref Level Att SGL Count 10 dBm 10 dBm -10 dBm -10 dBm -20 dBm | 1 Band 27.60 dBm 40 dB | 2.350 Edge N Offset 7. | VNT 3 | -40.84 dBm -DH5 248(RBW 100 kHz VBW 300 kHz | OMHZ / Mode Au | uto FFT | p-Hoppir | | |
| M4 Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm -10 dBm | 1 Band 27.60 dBm 40 dB | 2.350 Edge N Offset 7. | VNT 3 | -40.84 dBm | OMHZ / Mode Au | uto FFT | p-Hoppin | | |
| M4 Spectrum Ref Level Att SGL Count 10 dBm 10 dBm -10 dBm -10 dBm -20 dBm | 1 Band 27.60 dBm 40 dB | 2.350 Edge N Offset 7. | VNT 3 | -40.84 dBm | OMHZ / Mode Au | uto FFT | p-Hoppin | | |
| M4 Spectrum Ref Level Att SGL Count 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm | 1 Band 27.60 dBm 40 dB | 2.350 Edge N Offset 7. | VNT 3 | -40.84 dBm | OMHZ / Mode Au | uto FFT | p-Hoppir | | |
| M4 Spectrum Ref Level Att SGL Count 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm | 1 Band 27.60 dBm 40 dB | 2.350 Edge N Offset 7. | VNT 3 | -40.84 dBm | OMHZ / Mode Au | uto FFT | p-Hoppir | | |
| M4 Spectrum Ref Level Att SGL Count 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm | 1 Band 27.60 dBm 40 dB | 2.350 Edge N Offset 7. | VNT 3 | -40.84 dBm | OMHZ / Mode Au | uto FFT | | | |
| M4 Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm | 1 Band 27.60 dBm 40 dB | 2.350 Edge N Offset 7. | VNT 3 | -40.84 dBm | OMHZ / Mode Au | uto FFT | p-Hoppir | | |



| pectrum | | | | | | | | |
|--|-----------------------------------|----------------------|---------------------|------------------|--------------|----------------|---------------------------|------------------------|
| ef Level 27.60 dBm | | | BW 100 kHz | | | | | |
| tt 40 dB GL Count 100/100 | SWT 227 | 7.5 µs 🥌 🗸 | ' BW 300 kHz | Mode / | Auto FFT | | | |
| LPk Max | | | | | | | | |
|) dBm | | | | M | 1[1] | | 0.400 | 4.82 dBm |
| J dBm | | | | M | 2[1] | | | 15000 GHz 46.04 dBm |
| | ++ | | | | | | | 50000 GHz |
| d8m | | | | | | | | |
| | | | | | | | | |
| D cBm D1 -12.697 | 7 dBm | | | | | | | |
| 0 dBm | ++ | | | | | | | |
| | | | | | | | | |
| VM I | | | | | | | | |
| 0 dBm ₁₂ M | M3 When the Anished | a mar | A. S. Land | المالية مريد | Constant | A in an inde | J. Monoul | يوليد المعالمة الم |
| 0 dBm | anoresestally a | pu/ | a walaawa ya mandh | karran kudal | www.two.lunt | e martha allan | 10 ⁻¹⁴ · · · · | . Archimtrellere |
| 0.40 | | | | | | | | |
| 0 dBm | | | | | | | | |
| 0 dBm | <u> </u> | | | - | | | | |
| tart 2.476 GHz | | | 1001 | pts | | | Stop 2 | 2.576 GHz |
| orker Type Ref Trc | X-value | 1 | Y-value | Func | tion | Fund | tion Result | 1 |
| M1 1 | 2.48019 | 5 GHz | 4.82 dBn | n | | | rion no sure | |
| M2 1 M3 1 | 2.4835 | | -46.04 dBn | | | | | |
| M3 1 M4 1 | | 5 GHz | -46.32 dBn | n | | | | |
| | | 9 GHz | -43.28 dBn | |) Read | · • | | |
| Band Ed | ge(Hoppi | | | |) 0MHz A | nt1 Ho | oping R | _ |
| Band Ed | ge(Hoppi | ing) N∖ | /NT 3-DI | |) OMHz A | unt1 Hop | oping R | ef |
| Band Ed | ge(Hoppi | ing) N\ □ dB ● RB | /NT 3-DI | H5 248 | | nt1 Ho | oping R | Ē |
| Band Ed pectrum ef Level 27.60 dBm tt 40 dB | ge(Hoppi Offset 7.6 swr 18. | ing) N\ □ dB ● RB | /NT 3-DI | H5 248 | | ant1 Hoj | oping R | Ē |
| Band Ed pectrum lef Level 27.60 dBm tt 40 dB GL Count 8000/8000 | ge(Hoppi Offset 7.6 swr 18. | ing) N\ □ dB ● RB | /NT 3-DI | H5 248 | | unt1 Hop | oping R | Ē |
| Band Ed pectrum lef Level 27.60 dBm tt 40 dB GL Count 8000/8000 | ge(Hoppi Offset 7.6 swr 18. | ing) N\ □ dB ● RB | /NT 3-DI | H5 248 Mode A | | unt1 Hop | | 7.29 dBm |
| Band Ed pectrum lef Level 27.60 dBm tt 40 dB GL Count 8000/8000 IPk Max | ge(Hoppi Offset 7.6 swr 18. | ing) N\ □ dB ● RB | /NT 3-DI | H5 248 Mode A | uto FFT | ant1 Ho | | |
| Band Ed pectrum lef Level 27.60 dBm tt 40 dB GL Count 8000/8000 IPk Max | ge(Hoppi Offset 7.6 swr 18. | ing) N\ □ dB ● RB | /NT 3-DI | H5 248 Mode A | uto FFT | ant1 Ho | | 7.29 dBm |
| Band Ed pectrum ef Level 27.60 dBm tt 40 dB GL Count 8000/8000 Pk Max | ge(Hoppi Offset 7.6 swr 18. | ing) N\ □ dB ● RB | /NT 3-DI | H5 248 Mode A | uto FFT | ant1 Hop | | 7.29 dBm |
| Band Ed pectrum of Level 27.60 dBm tt 40 dB GL Count 8000/8000 Pk Max | ge(Hoppi Offset 7.6 swr 18. | ing) N\ □ dB ● RB | /NT 3-DI | H5 248 Mode A | uto FFT | ant1 Hop | | 7.29 dBm |
| Band Ed pectrum ef Level 27.60 dBm tt 40 dB GL Count 8000/8000 IPk Max | ge(Hoppi Offset 7.6 swr 18. | ing) N\ □ dB ● RB | /NT 3-DI | H5 248 Mode A | uto FFT | ant1 Hop | | 7.29 dBm |
| Band Ed pectrum ef Level 27.60 dBm dBack dBm dBm | ge(Hoppi Offset 7.6 swr 18. | ing) N\ □ dB ● RB | /NT 3-DI | H5 248 Mode A | uto FFT | ant1 Hop | | 7.29 dBm |
| Band Ed pectrum lef Level 27.60 dBm tt 40 dB GL Count 8000/8000 IPk Max | ge(Hoppi Offset 7.6 swr 18. | ing) N\ □ dB ● RB | /NT 3-DI | H5 248 Mode A | uto FFT | Ant1 Hop | | 7.29 dBm |
| Band Ed pectrum ef Level 27.60 dBm ef Level 27.60 dBm tt 40 dB GL Count 8000/8000 Pk Max 0 dBm 0 dBm 0 dBm | ge(Hoppi Offset 7.6 swr 18. | ing) N\ □ dB ● RB | /NT 3-DI | H5 248 Mode A | uto FFT | Ant1 Hop | | 7.29 dBm |
| Band Ed pectrum ef Level 27.60 dBm tt 40 dB GL Count 8000/8000 IPk Max 0 dBm 0 dBm | ge(Hoppi Offset 7.6 swr 18. | ing) N\ □ dB ● RB | /NT 3-DI | H5 248 Mode A | uto FFT | Ant1 Hop | | 7.29 dBm |
| Band Ed pectrum ef Level 27.60 dBm tt 40 dB GL Count 8000/8000 /Pk Max 0 dBm 0 dBm 0 dBm 0 dBm | ge(Hoppi Offset 7.6 swr 18. | ing) N\ □ dB ● RB | /NT 3-DI | H5 248 Mode A | uto FFT | Ant1 Hop | | 7.29 dBm |
| Band Ed pectrum ef Level 27.60 dBm tt 40 dB GL Count 8000/8000 Pk Max I dBm I dBm 0 dBm 0 dBm 0 dBm 0 dBm | ge(Hoppi Offset 7.6 swr 18. | ing) N\ □ dB ● RB | /NT 3-DI | H5 248 Mode A | uto FFT | Ant1 Hop | | 7.29 dBm |
| Band Ed pectrum ef Level 27.60 dBm ef Level 27.60 dBm tt 40 dB GL Count 8000/8000 Pk Max 1 I dBm 1 I dBm 1 I dBm 1 0 dBm 0 0 dBm 0 | ge(Hoppi Offset 7.6 swr 18. | ing) N\ □ dB ● RB | /NT 3-DI | H5 248 Mode A | uto FFT | Ant1 Hop | | 7.29 dBm |
| Band Ed pectrum ef Level 27.60 dBm ef Level 27.60 dBm tt 40 dB GL Count 8000/8000 Pk Max I dBm I dBm I dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm | ge(Hoppi Offset 7.6 swr 18. | ing) N\ □ dB ● RB | /NT 3-DI | H5 248 Mode A | uto FFT | Ant1 Hop | | 7.29 dBm |
| Band Ed pectrum ef Level 27.60 dBm ide Level 2 | ge(Hoppi Offset 7.6 swr 18. | ing) N\ □ dB ● RB | /NT 3-DI | H5 248 Mode A | uto FFT | Ant1 Hop | | 7.29 dBm |
| Band Ed | ge(Hoppi Offset 7.6 swr 18. | ing) N\ □ dB ● RB | /NT 3-DI | H5 248 Mode A | uto FFT | Ant1 Hop | | 7.29 dBm |
| Band Ed pectrum ef Level 27.60 dBm tt 40 dB SL Count 8000/8000 Pk Max dBm dBm dBm dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm | ge(Hoppi Offset 7.6 swr 18. | ing) N\ □ dB ● RB | /NT 3-DI | H5 248 Mode A | uto FFT | Ant1 Hop | | 7.29 dBm |
| Band Ed ectrum f Level 27.60 dBm t 40 dB L Count 8000/8000 k Max dBm dBm dBm dBm dBm dBm dBm dBm | ge(Hoppi Offset 7.6 swr 18. | ing) N\ □ dB ● RB | /NT 3-DI | H5 248 Mode A | uto FFT | Ant1 Hop | | 7.29 dBm |

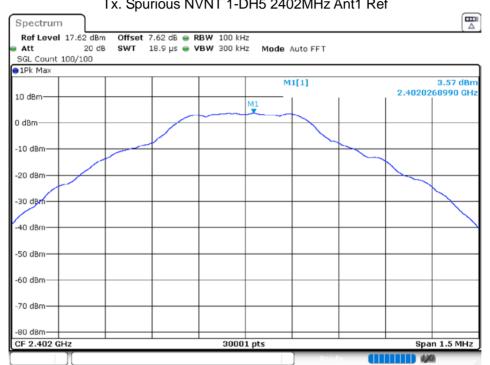


| · _ | | | | | | |
|--|------------------------------|----------------------|---------------|------------------|--------------|-----------------------|
| Ref Level 27.60 dBn | | | | | | |
| Att 40 de | | VBW 300 kHz | Mode Auto FF | т | | |
| SGL Count 1000/100 | D | | | | | |
| DIPK Max | | _ | 544543 | | | 6.00 dBm |
| 20 dBm | | | M1[1] | | 2 477 | 6.80 dBm 15000 GHz |
| 20 0011 | | | M2[1] | | | 44.03 dBm |
| 🔢 dBm | | | | | | 50000 GHz |
| | | | 1 | | | |
| իինքիս | | | | | 1 1 | |
| -10 cBm | | | | | | |
| D1 -12.70 | 6 dBm | | | | | |
| 20 dBm | | _ | | | | |
| | | | | | | |
| -30 dBm | | | | | + + | |
| 40 dBm12 | NMA5 | | | | | |
| and when a state of the second state of the se | warren on her war he through | and white warden and | unary allower | hold willing and | iner Whicher | mar Mar Mar |
| 50 dBm | | | | • • • • | | |
| | | | | | | |
| -60 dBm | | | | | | |
| -70 dBm | | | | | | |
| Start 2.476 GHz | | 1001 pt | <u>د</u> | | Stop 2 | 2.576 GHz |
| larker | | 1001 pt | 5 | | 00001 | |
| Type Ref Trc | X-value | Y-value | Function | Eun | ction Result | 1 |
| M1 1 | 2.47715 GHz | 6.80 dBm | 1 unotion | | btion nobult | |
| M2 1 | 2.4835 GHz | -44.03 dBm | | | | |
| M3 1 | 2.5 GHz | -43.74 dBm | | | | |
| M4 1 | 2.4996 GHz | -42.48 dBm | | | | |



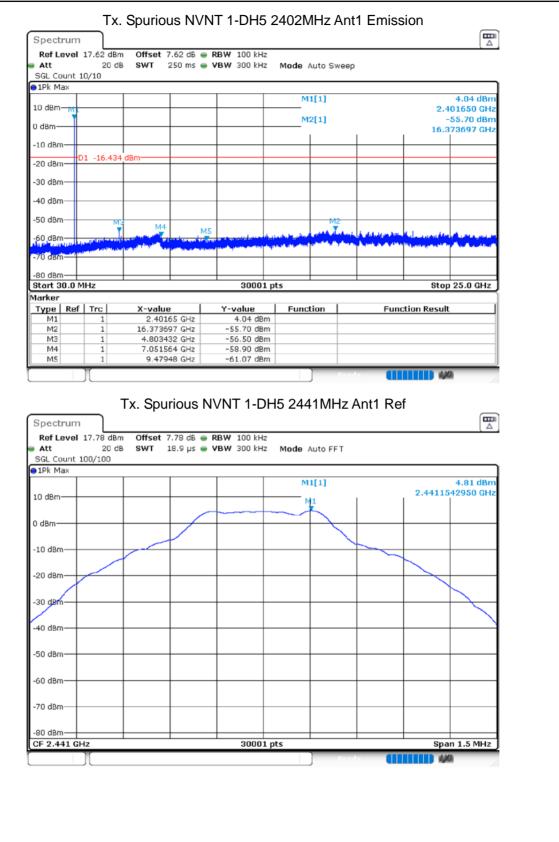
8.7 CONDUCTED RF SPURIOUS EMISSION

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict | | | |
|-----------|-------|-----------------|---------|-----------------|-------------|---------|--|--|--|
| NVNT | 1-DH5 | 2402 | Ant 1 | -59.27 | -20 | Pass | | | |
| NVNT | 1-DH5 | 2441 | Ant 1 | -58.85 | -20 | Pass | | | |
| NVNT | 1-DH5 | 2480 | Ant 1 | -60.96 | -20 | Pass | | | |
| NVNT | 2-DH5 | 2402 | Ant 1 | -61.15 | -20 | Pass | | | |
| NVNT | 2-DH5 | 2441 | Ant 1 | -61.36 | -20 | Pass | | | |
| NVNT | 2-DH5 | 2480 | Ant 1 | -63.44 | -20 | Pass | | | |
| NVNT | 3-DH5 | 2402 | Ant 1 | -60.7 | -20 | Pass | | | |
| NVNT | 3-DH5 | 2441 | Ant 1 | -61.51 | -20 | Pass | | | |
| NVNT | 3-DH5 | 2480 | Ant 1 | -61.26 | -20 | Pass | | | |

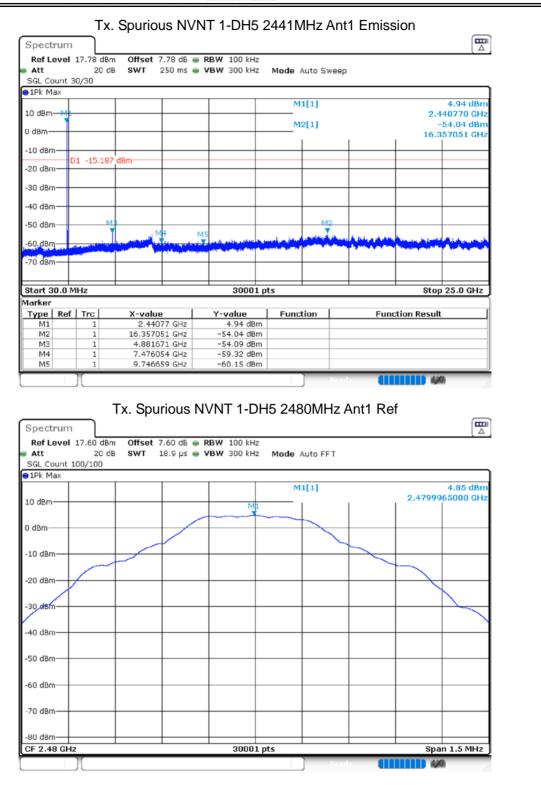


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

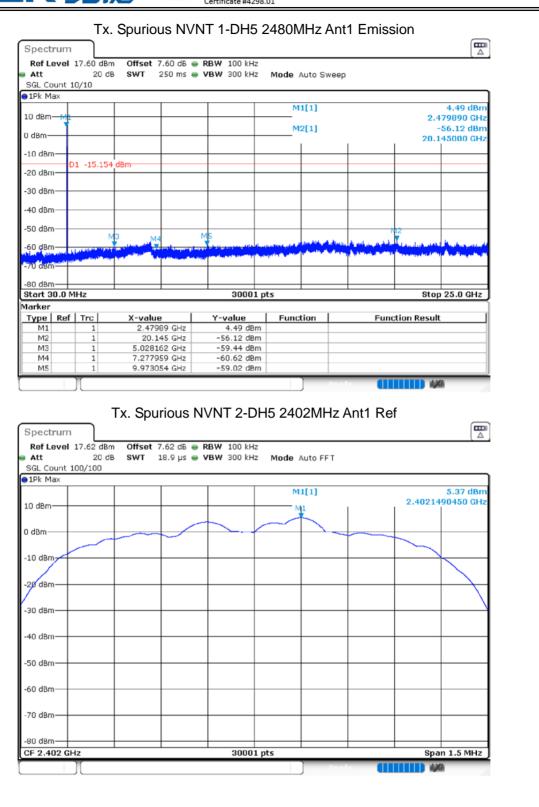




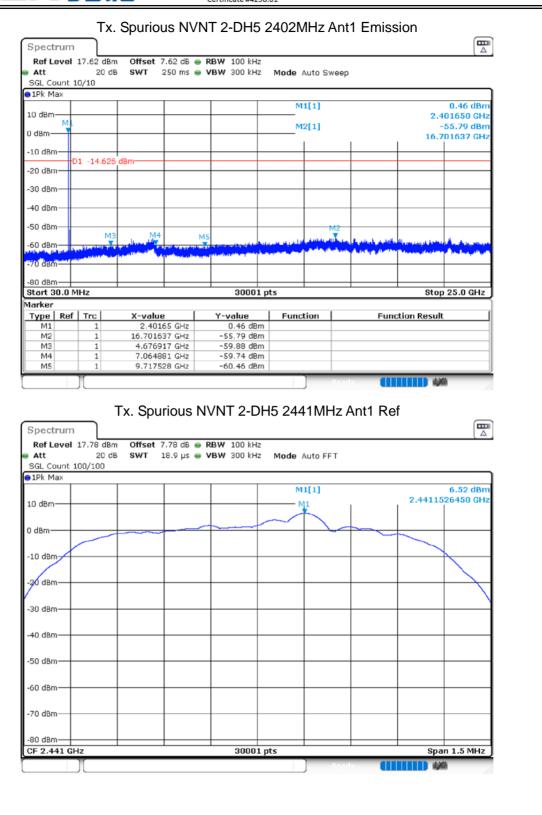




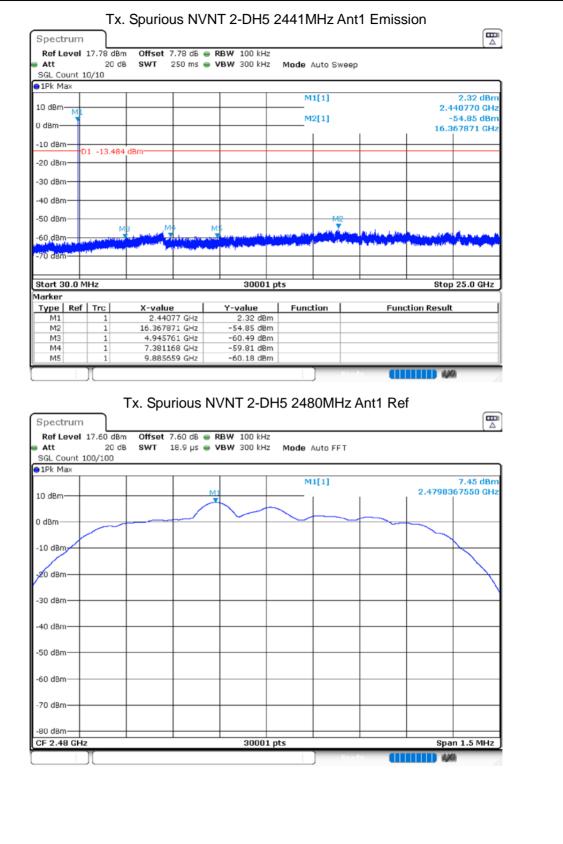




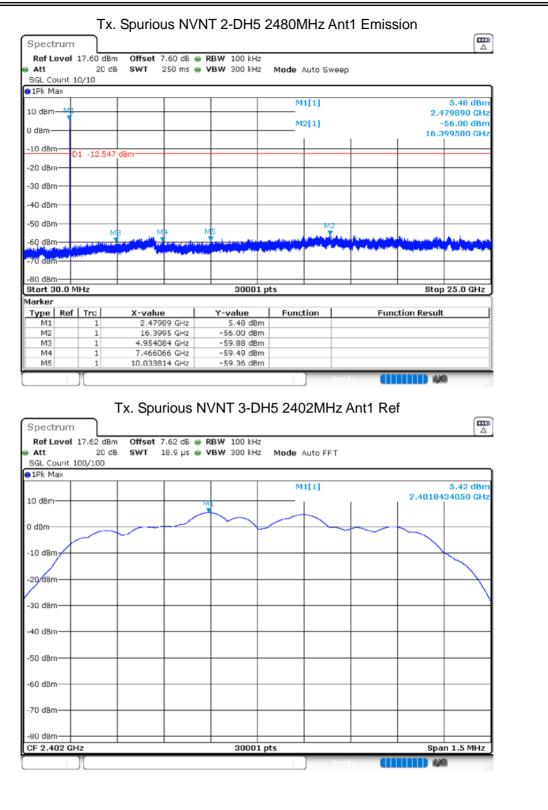




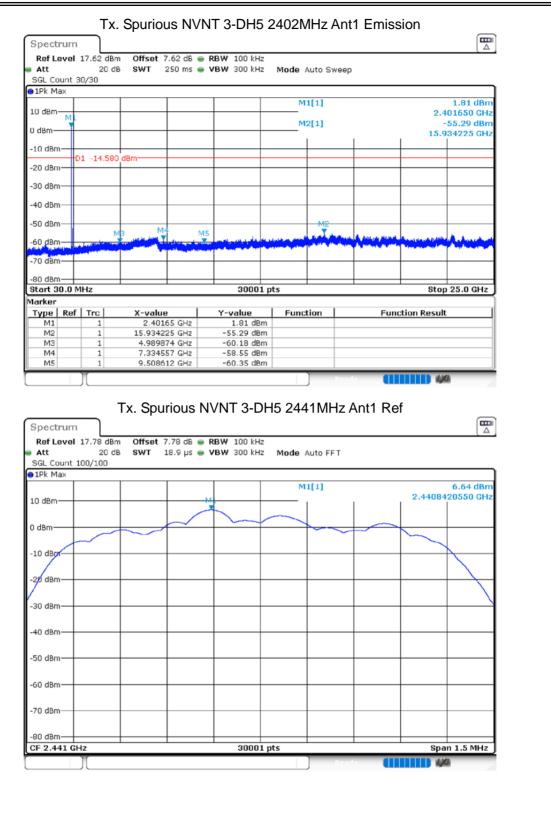




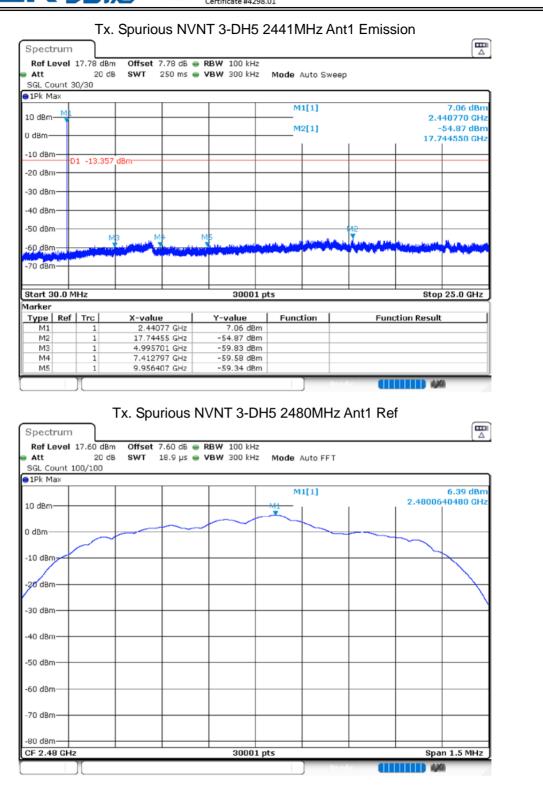




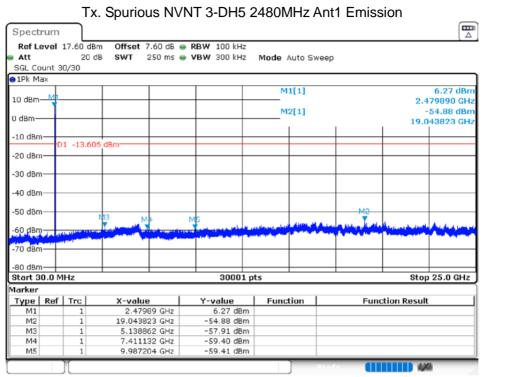












END OF REPORT