



BUREAU VERITAS

Test Report No.: PSU-NQN2504150110RF01



Certificate #6613.01

FCC TEST REPORT (PART 22)

| | |
|------------|---|
| Applicant: | SHARP CORPORATION |
| Address: | 1 Takumi-cho, Sakai-ku, Sakai City, Osaka 590-8522, Japan |

| | |
|---------------------------|---|
| Manufacturer or Supplier: | SHARP CORPORATION |
| Address: | 1 Takumi-cho, Sakai-ku, Sakai City, Osaka 590-8522, Japan |
| Product: | Smart Phone |
| Brand Name: | SHARP |
| FCC ID: | APYHRO00336 |
| Date of tests: | Mar. 19, 2025 ~ Apr.28, 2025 |

The tests have been carried out according to the requirements of the following standard:

- FCC PART 22, Subpart H
- FCC Part 2
- ANSI/TIA/EIA-603-D
- ANSI C63.26-2015
- ANSI/TIA/EIA-603-E

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

| | |
|---|--|
| Prepared by Hanwen Xu Engineer / Mobile Department | Approved by Peibo Sun Manager / Mobile Department |
| Date: Apr.28, 2025 | Date: Apr.28, 2025 |

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RELEASE CONTROL RECORD

| ISSUE NO. | REASON FOR CHANGE | DATE ISSUED |
|-----------------------|-------------------|--------------|
| PSU-NQN2504150110RF01 | Original release | Apr.28, 2025 |



1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

| APPLIED STANDARD: FCC Part 22 & Part 2 | | |
|---|------------------------------|---------------|
| STANDARD SECTION | TEST TYPE | RESULT |
| §2.1046 | Conducted Output Power | Compliance |
| §22.913 (a)(5) | Effective Radiated Power | Compliance |
| §2.1055 §22.355 | Frequency Stability | Compliance |
| §2.1049 | Occupied Bandwidth | Compliance |
| §22.913 (d) | Peak to average ratio* | Compliance |
| §22.917(a) | Band Edge Measurements | Compliance |
| §2.1051 §22.917(a) | Conducted Spurious Emissions | Compliance |
| §2.1053 §22.917(a) | Radiated Spurious Emissions | Compliance |

* Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01.

***Test Lab Information Reference**

Lab A:

Huarui 7Layers High Technology (Suzhou) Co., Ltd.

Lab Address:

Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province

Accredited Test Lab Cert 6613.01

The FCC Site Registration No. is 434559; The Designation No. is CN1325.

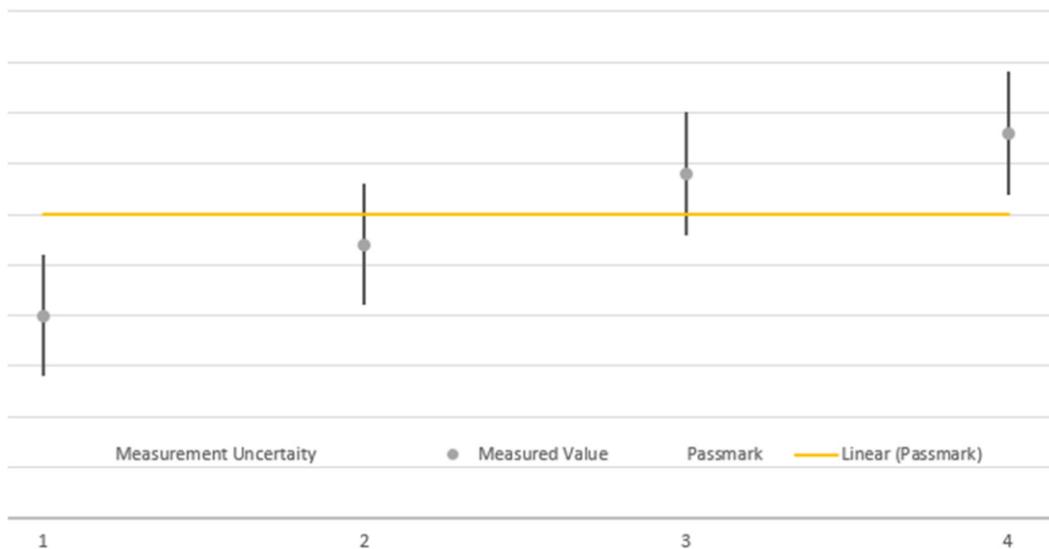


1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| MEASUREMENT | UNCERTAINTY |
|-----------------------------------|-------------|
| Maximum Peak Output Power | ±2.06dB |
| Frequency Stability | ±76.97Hz |
| Radiated emissions (9KHz~30MHz) | ±2.68dB |
| Radiated emissions (30MHz~1GHz) | ±4.98dB |
| Radiated emissions (1GHz ~6GHz) | ±4.70dB |
| Radiated emissions (6GHz ~18GHz) | ±4.60dB |
| Radiated emissions (18GHz ~40GHz) | ±4.12dB |
| Conducted emissions | ±4.01dB |
| Occupied Channel Bandwidth | ±43.58KHz |
| Band Edge Measurements | ±4.70dB |
| Peak to average ratio | ±0.76dB |

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



The verdicts in this test report are given according the above diagram:

| Case | Measured Value | Uncertainty Range | Verdict |
|------|-----------------|-------------------|---------|
| 1 | below pass mark | below pass mark | Passed |
| 2 | below pass mark | within pass mark | Passed |
| 3 | above pass mark | within pass mark | Failed |
| 4 | above pass mark | above pass mark | Failed |

That means, the laboratory applies, as decision rule (see ISO/IEC 17025:2017), the so-called shared risk principle.



1.2 TEST SITE AND INSTRUMENTS

| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|------------------------------------|------------------------------|------------------|-----------------------|-----------|-----------|
| Pre-Amplifier | R&S | SCU18F1 | 100815 | Aug.30,23 | Aug.29,25 |
| Pre-Amplifier | R&S | SCU08F1 | 101028 | Jan.22,24 | Jan.21,26 |
| Vector Signal Generator | R&S | SMBV100B | 102176 | Mar.29,24 | Mar.28,26 |
| Signal Generator | R&S | SMB100A | 182185 | Mar.29,24 | Mar.28,26 |
| 3m Fully-anechoic Chamber | TDK | 9m*6m*6m | HRSW-SZ-EMC-01Chamber | Nov.25,22 | Nov.24,25 |
| 3m Semi-anechoic Chamber | TDK | 9m*6m*6m | HRSW-SZ-EMC-02Chamber | Nov.25,22 | Nov.24,25 |
| EMI TEST Receiver | R&S | ESR26 | 101734 | Mar.28,24 | Mar.27,26 |
| EMI TEST Receiver | R&S | ESW44 | 101973 | Mar.28,24 | Mar.27,26 |
| Bilog Antenna | SCHWARZBECK | VULB 9163 | 1264 | Dec.26,23 | Dec.25,25 |
| Horn Antenna | ETS-LINDGREN | 3117 | 227836 | Aug.22,23 | Aug.21,25 |
| Horn Antenna (18GHz-40GHz) | Steatite Q-par Antennas | QMS 00880 | 23486 | Jul.15,24 | Jul.14,26 |
| Horn Antenna | Steatite Q-par Antennas | QMS 00208 | 23485 | Aug.22,23 | Aug.21,25 |
| Loop Antenna | SCHWARZ | HFH2-Z2/Z2E | 100976 | Feb.23,25 | Feb.22,27 |
| WIDEBANDRADIO COMMUNICATION TESTER | R&S | CMW500 | 169399 | Jun.19,24 | Jun.18,26 |
| Test Software | EMC32 | EMC32 | N/A | N/A | N/A |
| 6DB attenuator | Tonscend Technology Co., Ltd | N/A | 23062787 | N/A | N/A |
| Test Software | ELEKTRA | ELEKTRA4.32 | N/A | N/A | N/A |
| Open Switch and Control Unit | R&S | OSP220 | 101964 | N/A | N/A |
| DC Source | HYELEC | HY3010B | 551016 | Aug.31,23 | Aug.30,25 |
| Hygrothermograph | DELI | 20210528 | SZ014 | Sep.06,23 | Sep.05,25 |
| PC | LENOVO | E14 | HRSW0024 | N/A | N/A |
| TMC-AMI18843A(CABLE) | R&S | HF290-NMNM-7.00M | N/A | N/A | N/A |
| TMC-AMI18843A(CABLE) | R&S | HF290-NMNM-4.00M | N/A | N/A | N/A |
| CABLE | R&S | W13.02 | N/A | Apr.27,25 | Apr.26,26 |
| CABLE | R&S | W12.14 | N/A | Apr.27,25 | Apr.26,26 |
| CABLE | R&S | J12J103539-00-1 | SEP-03-20-069 | Apr.27,25 | Apr.26,26 |
| CABLE | R&S | J12J103539-00-1 | SEP-03-20-070 | Apr.27,25 | Apr.26,26 |
| Temperature Chamber | votsch | VT4002 | 58566078100050 | May.30,24 | May.29,26 |



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- NOTE:**
1. The calibration interval of the above test instruments is 12 / 24/ 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
 2. The test was performed in 3m Semi-anechoic Chamber and RF Oven Room.
 3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
 4. The FCC Site Registration No. is 434559; The Designation No. is CN1325.



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

| | | |
|---------------------------------|--|---------------------|
| PRODUCT* | Smart Phone | |
| BRAND NAME* | SHARP | |
| NOMINAL VOLTAGE* | 4.0Vdc(adapter or host equipment) 3.89Vdc (Li-ion, battery) | |
| MODULATION TYPE* | GSM/EDGE | GMSK |
| | WCDMA | HSDPA、HSUPA、HSPA+ |
| | LTE | QPSK, 16QAM, 64QAM |
| FREQUENCY RANGE | GSM/EDGE | 824.2MHz ~ 848.8MHz |
| | WCDMA V | 826.4MHz ~ 846.6MHz |
| | LTE Band 5 (Channel Bandwidth: 1.4MHz) | 824.7MHz ~ 848.3MHz |
| | LTE Band 5 (Channel Bandwidth: 3MHz) | 825.5MHz ~ 847.5MHz |
| | LTE Band 5 (Channel Bandwidth: 5MHz) | 826.5MHz ~ 846.5MHz |
| | LTE Band 5 (Channel Bandwidth: 10MHz) | 829MHz ~ 844MHz |
| MAX. ERP POWER | GSM 850 | 525mW |
| | WCDMA V | 53mW |
| | LTE Band 5 (Channel Bandwidth: 1.4MHz) | 62mW |
| | LTE Band 5 (Channel Bandwidth: 3MHz) | 61mW |
| | LTE Band 5 (Channel Bandwidth: 5MHz) | 64mW |
| | LTE Band 5 (Channel Bandwidth: 10MHz) | 62mW |
| EMISSION DESIGNATOR GOGN | GSM 850 | 248KGXW |
| | WCDMA V | 4M17F9W |
| | LTE Band 5 (Channel Bandwidth: 1.4MHz) | QPSK: 1M11G7D |
| | | 16QAM: 1M11W7D |
| | | 64QAM: 1M11W7D |
| | LTE Band 5 (Channel Bandwidth: 3MHz) | QPSK: 2M75G7D |
| | | 16QAM: 2M76W7D |
| | | 64QAM: 2M76W7D |
| | LTE Band 5 (Channel Bandwidth: 5MHz) | QPSK: 4M53G7D |
| 16QAM: 4M54W7D | | |



| | | |
|-----------------------------|--|----------------|
| | | 64QAM: 4M54W7D |
| | LTE Band 5 (Channel Bandwidth: 10MHz) | QPSK: 9M04G7D |
| | | 16QAM: 9M02W7D |
| | | 64QAM: 9M02W7D |
| ANTENNA TYPE* | PIFA Antenna with -2.9dBi gain for GSM850/WCDMA V/LTE B5 | |
| HW VERSION* | DVT | |
| SW VERSION* | A2270 | |
| I/O PORTS* | Refer to user's manual | |
| EXTREME TEMPERATURE* | 5~35°C | |
| EXTREME VOLTAGE* | 3.7V~4V | |



NOTE:

1. *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, Test Lab is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.
2. For a more detailed features description, please refer to the manufacturer’s specifications or the user’s manual.
3. The EUT incorporates a SISO function. Physically, the EUT provides one completed transmitter and two receiver.

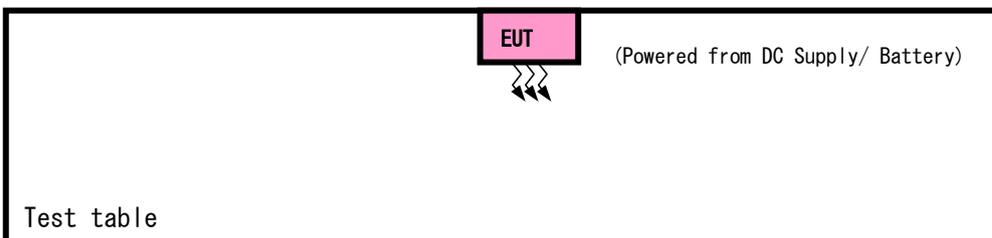
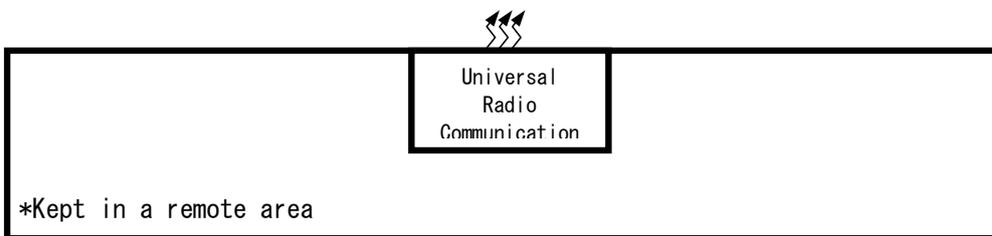
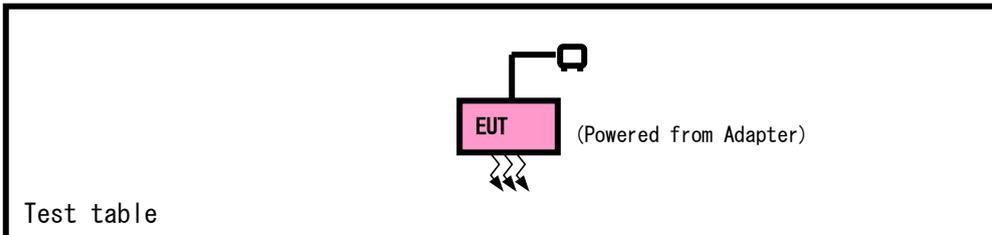
| MODULATION MODE | TX FUNCTION |
|------------------------|--------------------|
| GSM/GPRS/EDGE | 1TX/1RX |
| WCDMA | 1TX/2RX |
| LTE | 1TX/2RX |

4. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
5. Antenna gain and EUT conducted cable loss are provided by the customer, and the laboratory will record the results based on these items that involve these two parameters.
6. List of Accessory:

| | | |
|----------------------------|------------------------|-----------------------------------|
| Battery Information | Battery Type | Li-Lon |
| | Manufacturer | Ningde Amperex Technology Limited |
| | Model Number | UBATIA319AFN2 |
| | Capacity | 4880 mAh |
| | Nominal Voltage | 3.89V |



2.2 CONFIGURATION OF SYSTEM UNDER TEST FOR RADIATION EMISSION





2.3 DESCRIPTION OF SUPPORT UNITS

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.

| NO. | PRODUCT | BRAND | MODEL NO. | SERIAL NO. | FCC ID |
|-----|-----------|--------|-----------|------------|--------|
| 1 | DC Source | HYELEC | HY3010B | 551016 | N/A |

| NO. | SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS |
|-----|---|
| 1 | DC Line: Unshielded, Detachable 1.0m |

2.4 TEST ITEM AND TEST CONFIGURATION

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case in ERP and radiated emission was found when positioned on X-plane for GSM /EDGE /LTE. Following channel(s) was (were) selected for the final test as listed below:

| EUT CONFIGURE MODE | DESCRIPTION |
|--------------------|---|
| A | EUT + Adapter with GSM or WCDMA or LTE link |
| B | EUT + DC Supply with GSM or WCDMA or LTE link |



GSM MODE

| EUT CONFIGURE MODE | TEST ITEM | AVAILABLE CHANNEL | TESTED CHANNEL | MODE |
|--------------------|-----------------------|-------------------|----------------|----------|
| A | ERP | 128 to 251 | 128, 189, 251 | GSM,EDGE |
| B | FREQUENCY STABILITY | 128 to 251 | 128, 189, 251 | GSM,EDGE |
| A | OCCUPIED BANDWIDTH | 128 to 251 | 128, 189, 251 | GSM,EDGE |
| A | BAND EDGE | 128 to 251 | 128, 251 | GSM,EDGE |
| A | CONDUCTED EMISSION | 128 to 251 | 128, 189, 251 | GSM,EDGE |
| A | RADIATED EMISSION | 128 to 251 | 128, 189, 251 | GSM,EDGE |
| A | PEAK TO AVERAGE RATIO | 128 to 251 | 128, 189, 251 | GSM,EDGE |

WCDMA MODE

| EUT CONFIGURE MODE | TEST ITEM | AVAILABLE CHANNEL | TESTED CHANNEL | MODE |
|--------------------|-----------------------|-------------------|------------------|-------|
| A | ERP | 4132 to 4233 | 4132, 4183, 4233 | WCDMA |
| B | FREQUENCY STABILITY | 4132 to 4233 | 4132, 4183, 4233 | WCDMA |
| A | OCCUPIED BANDWIDTH | 4132 to 4233 | 4132, 4183, 4233 | WCDMA |
| A | BAND EDGE | 4132 to 4233 | 4132, 4233 | WCDMA |
| A | CONDUCTED EMISSION | 4132 to 4233 | 4132, 4183, 4233 | WCDMA |
| A | RADIATED EMISSION | 4132 to 4233 | 4132, 4183 4233 | WCDMA |
| A | PEAK TO AVERAGE RATIO | 4132 to 4233 | 4132, 4183, 4233 | WCDMA |

LTE BAND 5 MODE

| EUT CONFIGURE MODE | TEST ITEM | Available Channel | Tested Channel | Channel bandwidth | modulation |
|--------------------|---------------------|-------------------|---------------------|-------------------|------------------|
| A | ERP | 20407 to 20643 | 20407, 20525, 20643 | 1.4MHz | QPSK,16QAM,64QAM |
| | | 20415 to 20635 | 20415, 20525, 20635 | 3MHz | QPSK,16QAM,64QAM |
| | | 20425 to 20625 | 20425, 20525, 20625 | 5MHz | QPSK,16QAM,64QAM |
| | | 20450 to 20600 | 20450, 20525, 20600 | 10MHz | QPSK,16QAM,64QAM |
| B | FREQUENCY STABILITY | 20407 to 20643 | 20407, 20525, 20643 | 1.4MHz | QPSK,16QAM,64QAM |
| | | 20415 to 20635 | 20415, 20525, 20635 | 3MHz | QPSK,16QAM,64QAM |
| | | 20425 to 20625 | 20425, 20525, 20625 | 5MHz | QPSK,16QAM,64QAM |
| | | 20450 to 20600 | 20450, 20525, 20600 | 10MHz | QPSK,16QAM,64QAM |
| A | OCCUPIED BANDWIDTH | 20407 to 20643 | 20407, 20525, 20643 | 1.4MHz | QPSK,16QAM,64QAM |



| | | | | | |
|---|-----------------------|----------------|---------------------|--------|------------------|
| | | 20415 to 20635 | 20415, 20525, 20635 | 3MHz | QPSK,16QAM,64QAM |
| | | 20425 to 20625 | 20425, 20525, 20625 | 5MHz | QPSK,16QAM,64QAM |
| | | 20450 to 20600 | 20450, 20525, 20600 | 10MHz | QPSK,16QAM,64QAM |
| A | PEAK TO AVERAGE RATIO | 20407 to 20643 | 20407, 20525, 20643 | 1.4MHz | QPSK,16QAM,64QAM |
| | | 20415 to 20635 | 20415, 20525, 20635 | 3MHz | QPSK,16QAM,64QAM |
| | | 20425 to 20625 | 20425, 20525, 20625 | 5MHz | QPSK,16QAM,64QAM |
| | | 20450 to 20600 | 20450, 20525, 20600 | 10MHz | QPSK,16QAM,64QAM |
| A | BAND EDGE | 20407 to 20643 | 20407, 20643 | 1.4MHz | QPSK,16QAM,64QAM |
| | | 20415 to 20635 | 20415, 20635 | 3MHz | QPSK,16QAM,64QAM |
| | | 20425 to 20625 | 20425, 20625 | 5MHz | QPSK,16QAM,64QAM |
| | | 20450 to 20600 | 20450, 20600 | 10MHz | QPSK,16QAM,64QAM |
| A | CONDUCTED EMISSION | 20407 to 20643 | 20407, 20525, 20643 | 1.4MHz | QPSK,16QAM,64QAM |
| | | 20415 to 20635 | 20415, 20525, 20635 | 3MHz | QPSK,16QAM,64QAM |
| | | 20425 to 20625 | 20425, 20525, 20625 | 5MHz | QPSK,16QAM,64QAM |
| | | 20450 to 20600 | 20450, 20525, 20600 | 10MHz | QPSK,16QAM,64QAM |
| A | RADIATED EMISSION | 20407 to 20643 | 20407, 20525, 20643 | 1.4MHz | QPSK |
| | | 20415 to 20635 | 20415, 20525, 20635 | 3MHz | QPSK |
| | | 20425 to 20625 | 20425, 20525, 20625 | 5MHz | QPSK |
| | | 20450 to 20600 | 20450, 20525, 20600 | 10MHz | QPSK |

Note: 1.This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.



TEST CONDITION:

| TEST ITEM | ENVIRONMENTAL CONDITIONS | INPUT POWER | TESTED BY |
|-----------------------|--------------------------|----------------------------|-----------|
| ERP | 23deg. C, 70%RH | DC 4V By DC Supply | Hanwen Xu |
| FREQUENCY STABILITY | 23deg. C, 70%RH | DC 3.7V/4V/4V By DC Supply | Hanwen Xu |
| OCCUPIED BANDWIDTH | 23deg. C, 70%RH | DC4V By DC Supply | Hanwen Xu |
| BAND EDGE | 23deg. C, 70%RH | DC 4V By DC Supply | Hanwen Xu |
| CONDUCTED EMISSION | 23deg. C, 70%RH | DC4V By DC Supply | Hanwen Xu |
| RADIATED EMISSION | 23deg. C, 70%RH | DC4V By DC Supply | Hanwen Xu |
| PEAK TO AVERAGE RATIO | 23deg. C, 70%RH | DC4V By DC Supply | Hanwen Xu |

2.5 EUT OPERATING CONDITIONS

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency



2.6 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR Part 2

FCC 47 CFR Part 22

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI/TIA/EIA-603-D

ANSI/TIA/EIA-603-E

ANSI C63.26-2015

NOTE: All test items have been performed and recorded as per the above standards.

3 TEST TYPES AND RESULTS

3.1 OUTPUT POWER MEASUREMENT

3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

Mobile / Portable station are limited to 7 watts e.r.p.

3.1.2 TEST PROCEDURES

EIRP / ERP MEASUREMENT:

Per KDB 971168 D01 Power Meas License Digital Systems v03r01 or subclause 5.2.5.5 of ANSI C63.26-2015, the relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

$$\text{ERP or EIRP} = P_{\text{Meas}} + G_{\text{T}} - L_{\text{C}}$$

Where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively

(expressed in the same units as P_{Meas} , typically dBW or dBm);

P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

G_{T} = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

L_{C} = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

CONDUCTED POWER MEASUREMENT:

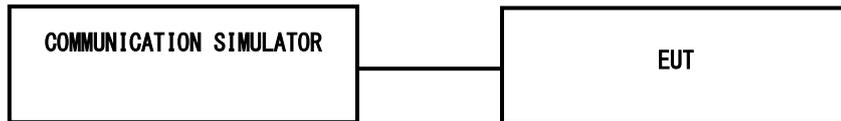
The EUT was set up for the maximum power with WCDMA link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.



3.1.3 TEST SETUP

EIRP / ERP Measurement:

CONDUCTED POWER MEASUREMENT:



3.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

| Band | | GSM850 | | |
|----------------|-----------|--------|-------|-------|
| Frequency | | 824.2 | 836.6 | 848.8 |
| Channel | | 128 | 190 | 251 |
| GSM | | 32.06 | 32.18 | 32.25 |
| GPRS (GMSK) | 1Tx-slot | 31.91 | 31.93 | 32.02 |
| | 2Tx-slots | 29.58 | 29.64 | 29.75 |
| | 3Tx-slots | 27.92 | 28.03 | 28.13 |
| | 4Tx-slots | 27.35 | 27.41 | 27.36 |

| Band | | WCDMA V | | |
|------------|---------------|---------|-------|-------|
| Channel | | 4132 | 4183 | 4233 |
| Frequency | | 826.4 | 836.6 | 846.6 |
| Release 99 | RMC, 12.2kbps | 22.17 | 22.25 | 22.31 |
| HSDPA | Subtest1 | 21.24 | 21.25 | 21.30 |
| | Subtest2 | 21.22 | 21.21 | 21.22 |
| | Subtest3 | 20.72 | 20.68 | 20.78 |
| | Subtest4 | 20.72 | 20.75 | 20.81 |
| HSUPA | Subtest1 | 21.23 | 21.26 | 21.32 |
| | Subtest2 | 19.21 | 19.27 | 19.31 |
| | Subtest3 | 20.21 | 20.27 | 20.33 |
| | Subtest4 | 19.01 | 19.18 | 18.90 |
| | Subtest5 | 21.22 | 21.25 | 21.31 |
| HSPA+ | QPSK | 20.80 | 20.82 | 20.86 |
| | 16QAM | 20.77 | 20.79 | 20.82 |



LTE BAND 5

| BW | Modulation | RB Size | RB Offset | Conducted power(dBm) | | |
|-----|------------|---------|-----------|----------------------|-------|-------|
| | | | | 20407 | 20525 | 20643 |
| | | | | 824.7 | 836.5 | 848.3 |
| 1.4 | QPSK | 1 | 0 | 22.90 | 22.95 | 22.85 |
| | | 1 | 3 | 22.91 | 22.89 | 22.73 |
| | | 1 | 5 | 22.90 | 22.94 | 22.80 |
| | | 3 | 0 | 22.77 | 22.90 | 22.73 |
| | | 3 | 1 | 22.79 | 22.92 | 22.82 |
| | | 3 | 3 | 22.81 | 22.89 | 22.78 |
| | 16QAM | 1 | 0 | 22.01 | 22.32 | 22.05 |
| | | 1 | 3 | 21.73 | 22.29 | 22.26 |
| | | 1 | 5 | 22.19 | 22.17 | 21.86 |
| | | 3 | 0 | 21.98 | 22.06 | 22.02 |
| | | 3 | 1 | 21.82 | 21.87 | 21.77 |
| | | 3 | 3 | 21.90 | 21.97 | 21.94 |
| | 64QAM | 6 | 0 | 20.80 | 20.87 | 20.89 |
| | | 1 | 0 | 21.22 | 21.18 | 21.19 |
| | | 1 | 3 | 21.04 | 21.53 | 21.35 |
| | | 1 | 5 | 21.17 | 21.27 | 20.93 |
| | | 3 | 0 | 20.97 | 20.99 | 20.72 |
| | | 3 | 1 | 21.08 | 20.98 | 21.00 |
| | | 3 | 3 | 20.97 | 20.97 | 21.05 |
| | | 6 | 0 | 19.79 | 19.81 | 19.92 |



| BW | Modulation | RB Size | RB Offset | Conducted power(dBm) | | |
|----|------------|---------|-----------|----------------------|-------|-------|
| | | | | 20415 | 20525 | 20635 |
| | | | | 825.5 | 836.5 | 847.5 |
| 3 | QPSK | 1 | 0 | 22.92 | 22.79 | 22.78 |
| | | 1 | 8 | 22.82 | 22.90 | 22.81 |
| | | 1 | 14 | 22.83 | 22.88 | 22.84 |
| | | 8 | 0 | 21.96 | 21.96 | 21.79 |
| | | 8 | 4 | 21.96 | 21.92 | 21.88 |
| | | 8 | 7 | 21.87 | 21.95 | 21.88 |
| | | 15 | 0 | 21.85 | 21.92 | 21.79 |
| | 16QAM | 1 | 0 | 22.05 | 22.14 | 22.02 |
| | | 1 | 8 | 22.14 | 22.14 | 21.93 |
| | | 1 | 14 | 22.17 | 22.16 | 22.01 |
| | | 8 | 0 | 20.99 | 20.96 | 20.83 |
| | | 8 | 4 | 20.96 | 21.02 | 20.85 |
| | | 8 | 7 | 20.97 | 21.07 | 20.93 |
| | | 15 | 0 | 21.01 | 20.99 | 20.86 |
| | 64QAM | 1 | 0 | 21.14 | 21.05 | 20.90 |
| | | 1 | 8 | 21.44 | 21.27 | 21.37 |
| | | 1 | 14 | 21.34 | 21.27 | 21.05 |
| | | 8 | 0 | 19.98 | 19.97 | 19.96 |
| | | 8 | 4 | 19.99 | 19.95 | 19.93 |
| | | 8 | 7 | 19.89 | 20.01 | 19.89 |
| | | 15 | 0 | 19.98 | 19.92 | 19.86 |



| BW | Modulation | RB Size | RB Offset | Conducted power(dBm) | | |
|----|------------|---------|-----------|----------------------|-------|-------|
| | | | | 20425 | 20525 | 20625 |
| | | | | 826.5 | 836.5 | 846.5 |
| 5 | QPSK | 1 | 0 | 22.92 | 22.92 | 22.85 |
| | | 1 | 12 | 22.98 | 23.10 | 22.84 |
| | | 1 | 24 | 22.99 | 22.91 | 22.83 |
| | | 12 | 0 | 21.87 | 21.95 | 21.83 |
| | | 12 | 7 | 21.92 | 21.96 | 21.93 |
| | | 12 | 13 | 21.88 | 22.01 | 21.88 |
| | | 25 | 0 | 21.92 | 21.91 | 21.97 |
| | 16QAM | 1 | 0 | 21.89 | 22.24 | 22.07 |
| | | 1 | 12 | 21.87 | 22.34 | 22.05 |
| | | 1 | 24 | 22.05 | 22.18 | 22.08 |
| | | 12 | 0 | 20.81 | 20.92 | 20.93 |
| | | 12 | 7 | 20.98 | 20.91 | 20.96 |
| | | 12 | 13 | 20.91 | 20.93 | 20.95 |
| | | 25 | 0 | 20.94 | 20.93 | 20.90 |
| | 64QAM | 1 | 0 | 21.16 | 21.33 | 21.16 |
| | | 1 | 12 | 20.95 | 21.29 | 21.13 |
| | | 1 | 24 | 21.19 | 21.09 | 21.03 |
| | | 12 | 0 | 19.90 | 19.93 | 19.82 |
| | | 12 | 7 | 20.06 | 19.94 | 19.76 |
| | | 12 | 13 | 20.07 | 19.97 | 19.87 |
| | | 25 | 0 | 20.00 | 19.98 | 19.86 |



| BW | Modulation | RB Size | RB Offset | Conducted power(dBm) | | |
|----|------------|---------|-----------|----------------------|-------|-------|
| | | | | 20450 | 20525 | 20600 |
| | | | | 829 | 836.5 | 844 |
| 10 | QPSK | 1 | 0 | 22.76 | 22.95 | 22.79 |
| | | 1 | 25 | 22.90 | 22.96 | 22.77 |
| | | 1 | 49 | 22.89 | 22.90 | 22.74 |
| | | 25 | 0 | 21.94 | 21.89 | 21.88 |
| | | 25 | 12 | 21.90 | 21.99 | 21.98 |
| | | 25 | 25 | 21.91 | 22.02 | 21.86 |
| | | 50 | 0 | 21.94 | 21.94 | 21.91 |
| | 16QAM | 1 | 0 | 22.08 | 22.00 | 22.40 |
| | | 1 | 25 | 21.98 | 22.27 | 22.32 |
| | | 1 | 49 | 22.11 | 22.03 | 22.32 |
| | | 25 | 0 | 20.87 | 20.97 | 20.95 |
| | | 25 | 12 | 20.93 | 20.97 | 21.07 |
| | | 25 | 25 | 20.98 | 20.96 | 20.80 |
| | | 50 | 0 | 21.05 | 20.97 | 21.01 |
| | 64QAM | 1 | 0 | 21.08 | 21.20 | 20.88 |
| | | 1 | 25 | 21.02 | 21.23 | 21.48 |
| | | 1 | 49 | 21.17 | 20.90 | 21.01 |
| | | 25 | 0 | 19.86 | 19.89 | 19.90 |
| | | 25 | 12 | 19.95 | 19.99 | 20.03 |
| | | 25 | 25 | 19.85 | 19.92 | 19.88 |
| | | 50 | 0 | 19.95 | 19.88 | 19.98 |



EIRP POWER (dBm)

GSM

GSM Measured Power:

| Carrier frequency (MHz) | Channel No. | Conducted Power (dBm) | ERP/EIRP (dBm) | ERP/EIRP (W) |
|-------------------------|-------------|-----------------------|----------------|--------------|
| 824.2 | 128 | 32.06 | 27.01 | 0.502 |
| 836.6 | 190 | 32.18 | 27.13 | 0.516 |
| 848.8 | 251 | 32.25 | 27.20 | 0.525 |

GPRS Measured Power:

| Carrier frequency (MHz) | Channel No. | TX Mode | Conducted Power (dBm) | ERP/EIRP (dBm) | ERP/EIRP (W) |
|-------------------------|-------------|------------|-----------------------|----------------|--------------|
| 824.2 | 128 | 1Tx-slot | 31.91 | 26.86 | 0.485 |
| 836.6 | 190 | 1Tx-slot | 31.93 | 26.88 | 0.488 |
| 848.8 | 251 | 1Tx-slot | 32.02 | 26.97 | 0.498 |
| 824.2 | 128 | 2Tx- slots | 29.58 | 24.53 | 0.284 |
| 836.6 | 190 | 2Tx- slots | 29.64 | 24.59 | 0.288 |
| 848.8 | 251 | 2Tx- slots | 29.75 | 24.70 | 0.295 |
| 824.2 | 128 | 3Tx-slots | 27.92 | 22.87 | 0.194 |
| 836.6 | 190 | 3Tx-slots | 28.03 | 22.98 | 0.199 |
| 848.8 | 251 | 3Tx-slots | 28.13 | 23.08 | 0.203 |
| 824.2 | 128 | 4Tx-slots | 27.35 | 22.30 | 0.170 |
| 836.6 | 190 | 4Tx-slots | 27.41 | 22.36 | 0.172 |
| 848.8 | 251 | 4Tx-slots | 27.36 | 22.31 | 0.170 |

WCDMA V

| Mode | | Carrier frequency (MHz) | Channel No. | Conducted Power (dBm) | ERP/EIRP (dBm) | ERP/EIRP (W) |
|------------|--------------|-------------------------|-------------|-----------------------|----------------|--------------|
| Release 99 | RMC,12.2kbps | 826.4 | 4132 | 22.17 | 17.12 | 0.052 |
| Release 99 | RMC,12.2kbps | 836.6 | 4183 | 22.25 | 17.20 | 0.052 |
| Release 99 | RMC,12.2kbps | 846.6 | 4233 | 22.31 | 17.26 | 0.053 |

| Mode | | Carrier frequency (MHz) | Channel No. | Conducted Power (dBm) | ERP/EIRP (dBm) | ERP/EIRP (W) |
|-------|----------|-------------------------|-------------|-----------------------|----------------|--------------|
| HSDPA | Subtest1 | 826.4 | 4132 | 21.24 | 16.19 | 0.042 |
| HSDPA | Subtest1 | 836.6 | 4183 | 21.25 | 16.20 | 0.042 |
| HSDPA | Subtest1 | 846.6 | 4233 | 21.30 | 16.25 | 0.042 |
| HSDPA | Subtest2 | 826.4 | 4132 | 21.22 | 16.17 | 0.041 |
| HSDPA | Subtest2 | 836.6 | 4183 | 21.21 | 16.16 | 0.041 |
| HSDPA | Subtest2 | 846.6 | 4233 | 21.22 | 16.17 | 0.041 |
| HSDPA | Subtest3 | 826.4 | 4132 | 20.72 | 15.67 | 0.037 |
| HSDPA | Subtest3 | 836.6 | 4183 | 20.68 | 15.63 | 0.037 |
| HSDPA | Subtest3 | 846.6 | 4233 | 20.78 | 15.73 | 0.037 |
| HSDPA | Subtest4 | 826.4 | 4132 | 20.72 | 15.67 | 0.037 |



| | | | | | | |
|-------|----------|-------|------|-------|-------|-------|
| HSDPA | Subtest4 | 836.6 | 4183 | 20.75 | 15.70 | 0.037 |
| HSDPA | Subtest4 | 846.6 | 4233 | 20.81 | 15.76 | 0.038 |

| Mode | | Carrier frequency (MHz) | Channel No. | Conducted Power (dBm) | ERP/EIRP (dBm) | ERP/EIRP (W) |
|-------|----------|-------------------------|-------------|-----------------------|----------------|--------------|
| HSUPA | Subtest1 | 826.4 | 4132 | 21.23 | 16.18 | 0.041 |
| HSUPA | Subtest1 | 836.6 | 4183 | 21.26 | 16.21 | 0.042 |
| HSUPA | Subtest1 | 846.6 | 4233 | 21.32 | 16.27 | 0.042 |
| HSUPA | Subtest2 | 826.4 | 4132 | 19.21 | 14.16 | 0.026 |
| HSUPA | Subtest2 | 836.6 | 4183 | 19.27 | 14.22 | 0.026 |
| HSUPA | Subtest2 | 846.6 | 4233 | 19.31 | 14.26 | 0.027 |
| HSUPA | Subtest3 | 826.4 | 4132 | 20.21 | 15.16 | 0.033 |
| HSUPA | Subtest3 | 836.6 | 4183 | 20.27 | 15.22 | 0.033 |
| HSUPA | Subtest3 | 846.6 | 4233 | 20.33 | 15.28 | 0.034 |
| HSUPA | Subtest4 | 826.4 | 4132 | 19.01 | 13.96 | 0.025 |
| HSUPA | Subtest4 | 836.6 | 4183 | 19.18 | 14.13 | 0.026 |
| HSUPA | Subtest4 | 846.6 | 4233 | 18.90 | 13.85 | 0.024 |
| HSUPA | Subtest5 | 826.4 | 4132 | 21.22 | 16.17 | 0.041 |
| HSUPA | Subtest5 | 836.6 | 4183 | 21.25 | 16.20 | 0.042 |
| HSUPA | Subtest5 | 846.6 | 4233 | 21.31 | 16.26 | 0.042 |

| Mode | | Carrier frequency (MHz) | Channel No. | Conducted Power (dBm) | ERP/EIRP (dBm) | ERP/EIRP (W) |
|-------|-------|-------------------------|-------------|-----------------------|----------------|--------------|
| HSPA+ | QPSK | 826.4 | 4132 | 20.80 | 15.75 | 0.038 |
| HSPA+ | QPSK | 836.6 | 4183 | 20.82 | 15.77 | 0.038 |
| HSPA+ | QPSK | 846.6 | 4233 | 20.86 | 15.81 | 0.038 |
| HSPA+ | 16QAM | 826.4 | 4132 | 20.77 | 15.72 | 0.037 |
| HSPA+ | 16QAM | 836.6 | 4183 | 20.79 | 15.74 | 0.037 |
| HSPA+ | 16QAM | 846.6 | 4233 | 20.82 | 15.77 | 0.038 |



LTE BAND 5

| BW | Modulation | RB Size | RB Offset | Conducted power(dBm) | | | ERP/EIRP (dBm) | | | ERP/EIRP (W) | | |
|-----|------------|---------|-----------|----------------------|-------|-------|----------------|-------|-------|--------------|-------|-------|
| | | | | 20407 | 20525 | 20643 | 20407 | 20525 | 20643 | 20407 | 20525 | 20643 |
| | | | | 824.7 | 836.5 | 848.3 | 824.7 | 836.5 | 848.3 | 824.7 | 836.5 | 848.3 |
| 1.4 | QPSK | 1 | 0 | 22.90 | 22.95 | 22.85 | 17.85 | 17.90 | 17.80 | 0.061 | 0.062 | 0.060 |
| | | 1 | 3 | 22.91 | 22.89 | 22.73 | 17.86 | 17.84 | 17.68 | 0.061 | 0.061 | 0.059 |
| | | 1 | 5 | 22.90 | 22.94 | 22.80 | 17.85 | 17.89 | 17.75 | 0.061 | 0.062 | 0.060 |
| | | 3 | 0 | 22.77 | 22.90 | 22.73 | 17.72 | 17.85 | 17.68 | 0.059 | 0.061 | 0.059 |
| | | 3 | 1 | 22.79 | 22.92 | 22.82 | 17.74 | 17.87 | 17.77 | 0.059 | 0.061 | 0.060 |
| | | 3 | 3 | 22.81 | 22.89 | 22.78 | 17.76 | 17.84 | 17.73 | 0.060 | 0.061 | 0.059 |
| | | 6 | 0 | 21.86 | 21.88 | 21.84 | 16.81 | 16.83 | 16.79 | 0.048 | 0.048 | 0.048 |
| | 16QAM | 1 | 0 | 22.01 | 22.32 | 22.05 | 16.96 | 17.27 | 17.00 | 0.050 | 0.053 | 0.050 |
| | | 1 | 3 | 21.73 | 22.29 | 22.26 | 16.68 | 17.24 | 17.21 | 0.047 | 0.053 | 0.053 |
| | | 1 | 5 | 22.19 | 22.17 | 21.86 | 17.14 | 17.12 | 16.81 | 0.052 | 0.052 | 0.048 |
| | | 3 | 0 | 21.98 | 22.06 | 22.02 | 16.93 | 17.01 | 16.97 | 0.049 | 0.050 | 0.050 |
| | | 3 | 1 | 21.82 | 21.87 | 21.77 | 16.77 | 16.82 | 16.72 | 0.048 | 0.048 | 0.047 |
| | | 3 | 3 | 21.90 | 21.97 | 21.94 | 16.85 | 16.92 | 16.89 | 0.048 | 0.049 | 0.049 |
| | | 6 | 0 | 20.80 | 20.87 | 20.89 | 15.75 | 15.82 | 15.84 | 0.038 | 0.038 | 0.038 |
| | 64QAM | 1 | 0 | 21.22 | 21.18 | 21.19 | 16.17 | 16.13 | 16.14 | 0.041 | 0.041 | 0.041 |
| | | 1 | 3 | 21.04 | 21.53 | 21.35 | 15.99 | 16.48 | 16.30 | 0.040 | 0.044 | 0.043 |
| | | 1 | 5 | 21.17 | 21.27 | 20.93 | 16.12 | 16.22 | 15.88 | 0.041 | 0.042 | 0.039 |
| | | 3 | 0 | 20.97 | 20.99 | 20.72 | 15.92 | 15.94 | 15.67 | 0.039 | 0.039 | 0.037 |
| | | 3 | 1 | 21.08 | 20.98 | 21.00 | 16.03 | 15.93 | 15.95 | 0.040 | 0.039 | 0.039 |
| | | 3 | 3 | 20.97 | 20.97 | 21.05 | 15.92 | 15.92 | 16.00 | 0.039 | 0.039 | 0.040 |
| | | 6 | 0 | 19.79 | 19.81 | 19.92 | 14.74 | 14.76 | 14.87 | 0.030 | 0.030 | 0.031 |



| BW | Modulation | RB Size | RB Offset | Conducted power(dBm) | | | ERP/EIRP (dBm) | | | ERP/EIRP (W) | | |
|----|------------|---------|-----------|----------------------|-------|-------|----------------|-------|-------|--------------|-------|-------|
| | | | | 20415 | 20525 | 20635 | 20415 | 20525 | 20635 | 20415 | 20525 | 20635 |
| | | | | 825.5 | 836.5 | 847.5 | 825.5 | 836.5 | 847.5 | 825.5 | 836.5 | 847.5 |
| 3 | QPSK | 1 | 0 | 22.92 | 22.79 | 22.78 | 17.87 | 17.74 | 17.73 | 0.061 | 0.059 | 0.059 |
| | | 1 | 8 | 22.82 | 22.90 | 22.81 | 17.77 | 17.85 | 17.76 | 0.060 | 0.061 | 0.060 |
| | | 1 | 14 | 22.83 | 22.88 | 22.84 | 17.78 | 17.83 | 17.79 | 0.060 | 0.061 | 0.060 |
| | | 8 | 0 | 21.96 | 21.96 | 21.79 | 16.91 | 16.91 | 16.74 | 0.049 | 0.049 | 0.047 |
| | | 8 | 4 | 21.96 | 21.92 | 21.88 | 16.91 | 16.87 | 16.83 | 0.049 | 0.049 | 0.048 |
| | | 8 | 7 | 21.87 | 21.95 | 21.88 | 16.82 | 16.90 | 16.83 | 0.048 | 0.049 | 0.048 |
| | | 15 | 0 | 21.85 | 21.92 | 21.79 | 16.80 | 16.87 | 16.74 | 0.048 | 0.049 | 0.047 |
| | 16QAM | 1 | 0 | 22.05 | 22.14 | 22.02 | 17.00 | 17.09 | 16.97 | 0.050 | 0.051 | 0.050 |
| | | 1 | 8 | 22.14 | 22.14 | 21.93 | 17.09 | 17.09 | 16.88 | 0.051 | 0.051 | 0.049 |
| | | 1 | 14 | 22.17 | 22.16 | 22.01 | 17.12 | 17.11 | 16.96 | 0.052 | 0.051 | 0.050 |
| | | 8 | 0 | 20.99 | 20.96 | 20.83 | 15.94 | 15.91 | 15.78 | 0.039 | 0.039 | 0.038 |
| | | 8 | 4 | 20.96 | 21.02 | 20.85 | 15.91 | 15.97 | 15.80 | 0.039 | 0.040 | 0.038 |
| | | 8 | 7 | 20.97 | 21.07 | 20.93 | 15.92 | 16.02 | 15.88 | 0.039 | 0.040 | 0.039 |
| | | 15 | 0 | 21.01 | 20.99 | 20.86 | 15.96 | 15.94 | 15.81 | 0.039 | 0.039 | 0.038 |
| | 64QAM | 1 | 0 | 21.14 | 21.05 | 20.90 | 16.09 | 16.00 | 15.85 | 0.041 | 0.040 | 0.038 |
| | | 1 | 8 | 21.44 | 21.27 | 21.37 | 16.39 | 16.22 | 16.32 | 0.044 | 0.042 | 0.043 |
| | | 1 | 14 | 21.34 | 21.27 | 21.05 | 16.29 | 16.22 | 16.00 | 0.043 | 0.042 | 0.040 |
| | | 8 | 0 | 19.98 | 19.97 | 19.96 | 14.93 | 14.92 | 14.91 | 0.031 | 0.031 | 0.031 |
| | | 8 | 4 | 19.99 | 19.95 | 19.93 | 14.94 | 14.90 | 14.88 | 0.031 | 0.031 | 0.031 |
| | | 8 | 7 | 19.89 | 20.01 | 19.89 | 14.84 | 14.96 | 14.84 | 0.030 | 0.031 | 0.030 |
| | | 15 | 0 | 19.98 | 19.92 | 19.86 | 14.93 | 14.87 | 14.81 | 0.031 | 0.031 | 0.030 |



| BW | Modulation | RB Size | RB Offset | Conducted power(dBm) | | | ERP/EIRP (dBm) | | | ERP/EIRP (W) | | |
|----|------------|---------|-----------|----------------------|-------|-------|----------------|-------|-------|--------------|-------|-------|
| | | | | 20425 | 20525 | 20625 | 20425 | 20525 | 20625 | 20425 | 20525 | 20625 |
| | | | | 826.5 | 836.5 | 846.5 | 826.5 | 836.5 | 846.5 | 826.5 | 836.5 | 846.5 |
| 5 | QPSK | 1 | 0 | 22.92 | 22.92 | 22.85 | 17.87 | 17.87 | 17.80 | 0.061 | 0.061 | 0.060 |
| | | 1 | 12 | 22.98 | 23.10 | 22.84 | 17.93 | 18.05 | 17.79 | 0.062 | 0.064 | 0.060 |
| | | 1 | 24 | 22.99 | 22.91 | 22.83 | 17.94 | 17.86 | 17.78 | 0.062 | 0.061 | 0.060 |
| | | 12 | 0 | 21.87 | 21.95 | 21.83 | 16.82 | 16.90 | 16.78 | 0.048 | 0.049 | 0.048 |
| | | 12 | 7 | 21.92 | 21.96 | 21.93 | 16.87 | 16.91 | 16.88 | 0.049 | 0.049 | 0.049 |
| | | 12 | 13 | 21.88 | 22.01 | 21.88 | 16.83 | 16.96 | 16.83 | 0.048 | 0.050 | 0.048 |
| | | 25 | 0 | 21.92 | 21.91 | 21.97 | 16.87 | 16.86 | 16.92 | 0.049 | 0.049 | 0.049 |
| | 16QAM | 1 | 0 | 21.89 | 22.24 | 22.07 | 16.84 | 17.19 | 17.02 | 0.048 | 0.052 | 0.050 |
| | | 1 | 12 | 21.87 | 22.34 | 22.05 | 16.82 | 17.29 | 17.00 | 0.048 | 0.054 | 0.050 |
| | | 1 | 24 | 22.05 | 22.18 | 22.08 | 17.00 | 17.13 | 17.03 | 0.050 | 0.052 | 0.050 |
| | | 12 | 0 | 20.81 | 20.92 | 20.93 | 15.76 | 15.87 | 15.88 | 0.038 | 0.039 | 0.039 |
| | | 12 | 7 | 20.98 | 20.91 | 20.96 | 15.93 | 15.86 | 15.91 | 0.039 | 0.039 | 0.039 |
| | | 12 | 13 | 20.91 | 20.93 | 20.95 | 15.86 | 15.88 | 15.90 | 0.039 | 0.039 | 0.039 |
| | | 25 | 0 | 20.94 | 20.93 | 20.90 | 15.89 | 15.88 | 15.85 | 0.039 | 0.039 | 0.038 |
| | 64QAM | 1 | 0 | 21.16 | 21.33 | 21.16 | 16.11 | 16.28 | 16.11 | 0.041 | 0.042 | 0.041 |
| | | 1 | 12 | 20.95 | 21.29 | 21.13 | 15.90 | 16.24 | 16.08 | 0.039 | 0.042 | 0.041 |
| | | 1 | 24 | 21.19 | 21.09 | 21.03 | 16.14 | 16.04 | 15.98 | 0.041 | 0.040 | 0.040 |
| | | 12 | 0 | 19.90 | 19.93 | 19.82 | 14.85 | 14.88 | 14.77 | 0.031 | 0.031 | 0.030 |
| | | 12 | 7 | 20.06 | 19.94 | 19.76 | 15.01 | 14.89 | 14.71 | 0.032 | 0.031 | 0.030 |
| | | 12 | 13 | 20.07 | 19.97 | 19.87 | 15.02 | 14.92 | 14.82 | 0.032 | 0.031 | 0.030 |
| | | 25 | 0 | 20.00 | 19.98 | 19.86 | 14.95 | 14.93 | 14.81 | 0.031 | 0.031 | 0.030 |



| BW | Modulation | RB Size | RB Offset | Conducted power(dBm) | | | ERP/EIRP (dBm) | | | ERP/EIRP (W) | | |
|----|------------|---------|-----------|----------------------|-------|-------|----------------|-------|-------|--------------|-------|-------|
| | | | | 20450 | 20525 | 20600 | 20450 | 20525 | 20600 | 20450 | 20525 | 20600 |
| | | | | 829 | 836.5 | 844 | 829 | 836.5 | 844 | 829 | 836.5 | 844 |
| 10 | QPSK | 1 | 0 | 22.76 | 22.95 | 22.79 | 17.71 | 17.90 | 17.74 | 0.059 | 0.062 | 0.059 |
| | | 1 | 25 | 22.90 | 22.96 | 22.77 | 17.85 | 17.91 | 17.72 | 0.061 | 0.062 | 0.059 |
| | | 1 | 49 | 22.89 | 22.90 | 22.74 | 17.84 | 17.85 | 17.69 | 0.061 | 0.061 | 0.059 |
| | | 25 | 0 | 21.94 | 21.89 | 21.88 | 16.89 | 16.84 | 16.83 | 0.049 | 0.048 | 0.048 |
| | | 25 | 12 | 21.90 | 21.99 | 21.98 | 16.85 | 16.94 | 16.93 | 0.048 | 0.049 | 0.049 |
| | | 25 | 25 | 21.91 | 22.02 | 21.86 | 16.86 | 16.97 | 16.81 | 0.049 | 0.050 | 0.048 |
| | | 50 | 0 | 21.94 | 21.94 | 21.91 | 16.89 | 16.89 | 16.86 | 0.049 | 0.049 | 0.049 |
| | 16QAM | 1 | 0 | 22.08 | 22.00 | 22.40 | 17.03 | 16.95 | 17.35 | 0.050 | 0.050 | 0.054 |
| | | 1 | 25 | 21.98 | 22.27 | 22.32 | 16.93 | 17.22 | 17.27 | 0.049 | 0.053 | 0.053 |
| | | 1 | 49 | 22.11 | 22.03 | 22.32 | 17.06 | 16.98 | 17.27 | 0.051 | 0.050 | 0.053 |
| | | 25 | 0 | 20.87 | 20.97 | 20.95 | 15.82 | 15.92 | 15.90 | 0.038 | 0.039 | 0.039 |
| | | 25 | 12 | 20.93 | 20.97 | 21.07 | 15.88 | 15.92 | 16.02 | 0.039 | 0.039 | 0.040 |
| | | 25 | 25 | 20.98 | 20.96 | 20.80 | 15.93 | 15.91 | 15.75 | 0.039 | 0.039 | 0.038 |
| | | 50 | 0 | 21.05 | 20.97 | 21.01 | 16.00 | 15.92 | 15.96 | 0.040 | 0.039 | 0.039 |
| | 64QAM | 1 | 0 | 21.08 | 21.20 | 20.88 | 16.03 | 16.15 | 15.83 | 0.040 | 0.041 | 0.038 |
| | | 1 | 25 | 21.02 | 21.23 | 21.48 | 15.97 | 16.18 | 16.43 | 0.040 | 0.041 | 0.044 |
| | | 1 | 49 | 21.17 | 20.90 | 21.01 | 16.12 | 15.85 | 15.96 | 0.041 | 0.038 | 0.039 |
| | | 25 | 0 | 19.86 | 19.89 | 19.90 | 14.81 | 14.84 | 14.85 | 0.030 | 0.030 | 0.031 |
| | | 25 | 12 | 19.95 | 19.99 | 20.03 | 14.90 | 14.94 | 14.98 | 0.031 | 0.031 | 0.031 |
| | | 25 | 25 | 19.85 | 19.92 | 19.88 | 14.80 | 14.87 | 14.83 | 0.030 | 0.031 | 0.030 |
| | | 50 | 0 | 19.95 | 19.88 | 19.98 | 14.90 | 14.83 | 14.93 | 0.031 | 0.030 | 0.031 |



3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

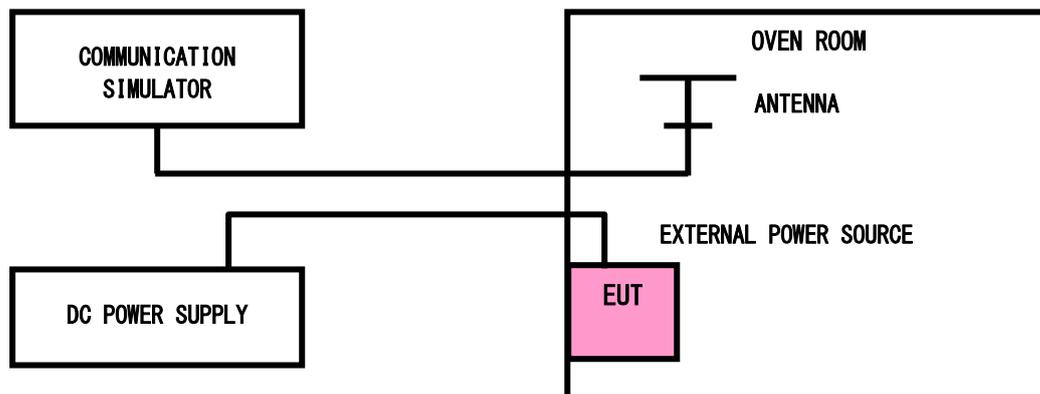
1.5 ppm is for base and fixed station. 2.5 ppm is for mobile station.

3.2.2 TEST PROCEDURE

- Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the $\pm 0.5^{\circ}\text{C}$ during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

NOTE: The frequency error was recorded frequency error from the communication simulator.

3.2.3 TEST SETUP



3.2.4 TEST RESULTS

Please Refer to Appendix Of this test report.

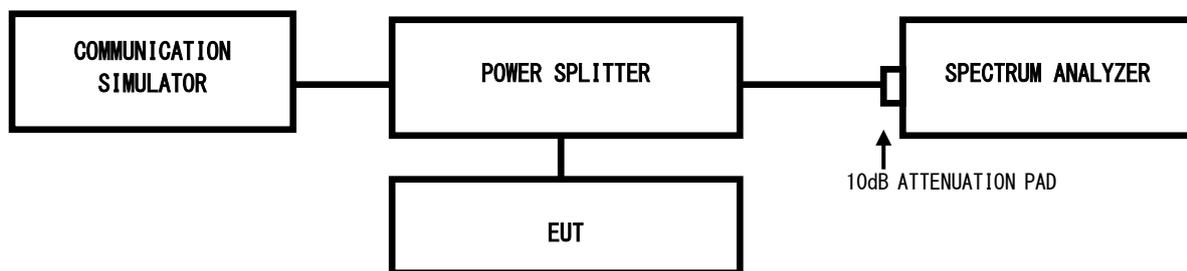


3.3 OCCUPIED BANDWIDTH MEASUREMENT

3.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

3.3.2 TEST SETUP



3.3.3 TEST PROCEDURES

- The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

3.3.4 TEST RESULTS

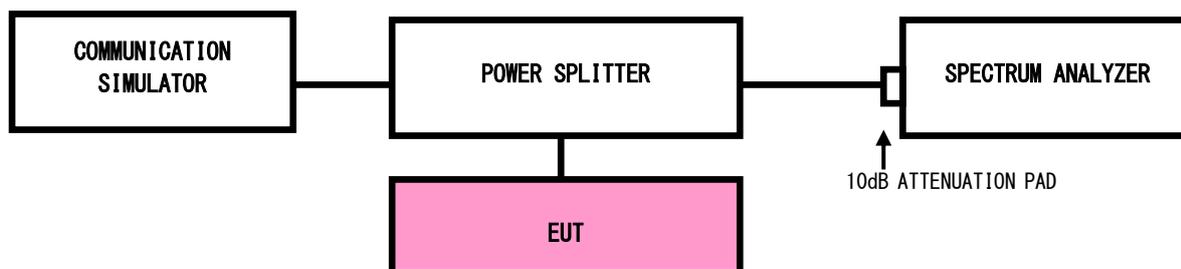
Please Refer to Appendix Of this test report.

3.4 BAND EDGE MEASUREMENT

3.4.1 LIMITS OF BAND EDGE MEASUREMENT

Power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

3.4.2 TEST SETUP





3.4.3 TEST PROCEDURES

- a) All measurements were done at low and high operational frequency range
- b) Connect the transmitter to the spectrum analyzer via coaxial cable while ensuring proper impedance matching.
- c) Tune the analyzer to the nominal center frequency of the emission bandwidth (EBW)
- d) .Set the resolution bandwidth (RBW) \cong 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
- e) Beyond the 1MHz band from the band edge, RBW=1MHz was used.
- f) Set the video bandwidth (VBW) to \cong 3 x RBW.
- g) Select the average power (RMS) display detector.
- h) Set the number of measurement points to \cong 1001.
- i) Use auto-coupled sweep time.
- j) Perform the measurement over an interval of time when the transmission is continuous and at its maximum power level.
- k) The RF fundamental frequency should be excluded against the limit line in the operating frequency band and use RBW is 10KHz or 100KHz.
- l) Record the max trace plot into the test report.

3.4.4 TEST RESULTS

Please Refer to Appendix Of this test report.

3.5 CONDUCTED SPURIOUS EMISSIONS

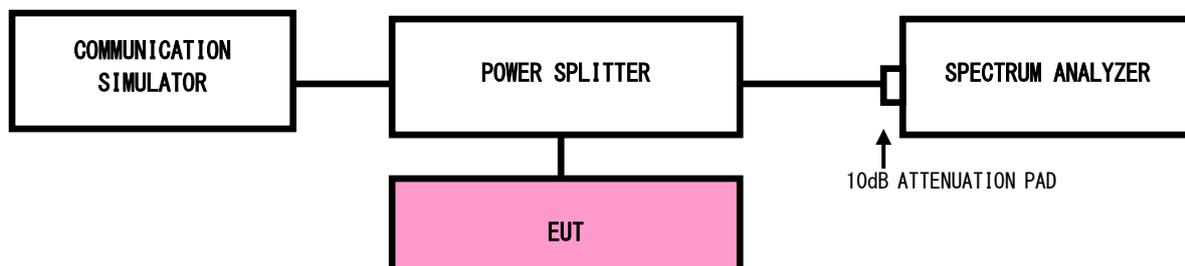
3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm .

3.5.2 TEST PROCEDURE

- The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- Measuring frequency range is from 9kHz up to a frequency including its 10th harmonic. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

3.5.3 TEST SETUP



3.5.4 TEST RESULTS

NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

Please Refer to Appendix Of this test report.

3.6 RADIATED EMISSION MEASUREMENT

3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm .

3.6.2 TEST PROCEDURES

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G
- c. $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$.
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole,
 $\text{E.R.P power} = \text{E.I.P.R power} - 2.15\text{dBi}$.

NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

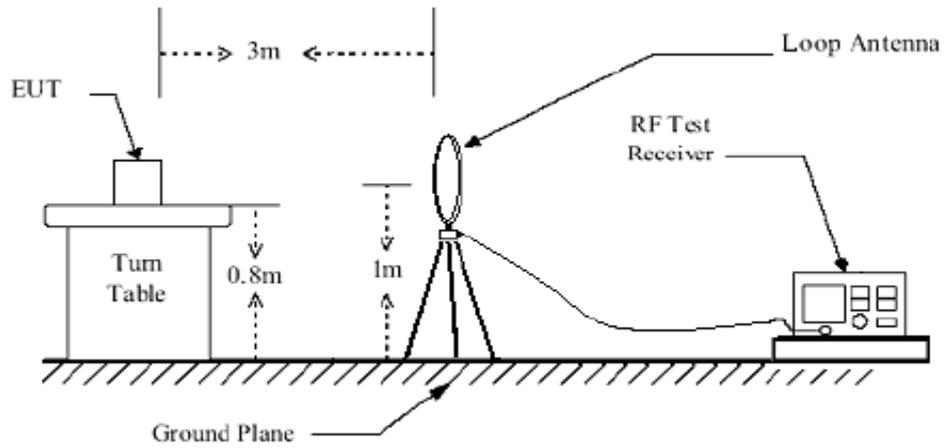
3.6.3 DEVIATION FROM TEST STANDARD

No deviation

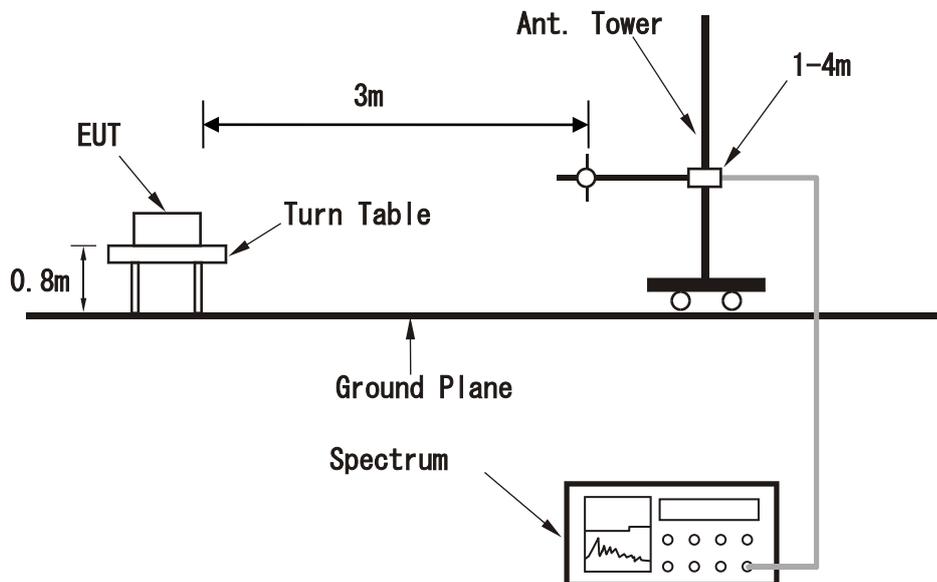


3.6.4 TEST SETUP

< Frequency Range below 30MHz >

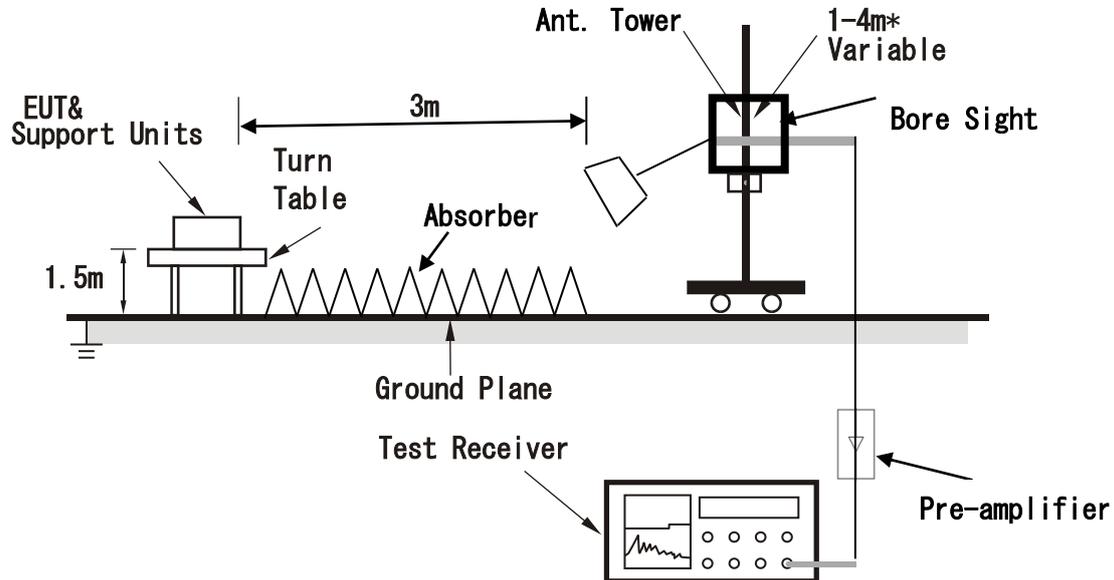


< Frequency Range 30MHz~1GHz >





<Frequency Range above 1GHz>



Note: Above 1G is a directional antenna

Depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

For the actual test configuration, please refer to the attached file (Test Setup Photo).



3.6.5 TEST RESULTS

NOTE1 : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

NOTE2: The measurement range is 30M to the tenth harmonic of the highest fundamental frequency, For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report

GSM850

Test result:

ANT3:

GSM/GPRS MODE Channel 189:

| Frequency (MHz) | Power (dBm) | Limited (dBm) | Polarization |
|-----------------|-------------|---------------|--------------|
| 1074.40 | -61.48 | -13.00 | Vertical |
| 1268.80 | -59.38 | -13.00 | Vertical |
| 1525.00 | -56.41 | -13.00 | Vertical |
| 3199.00 | -57.70 | -13.00 | Vertical |
| 3339.00 | -57.74 | -13.00 | Vertical |
| 3440.00 | -57.17 | -13.00 | Vertical |

WCDMA band V

Test result:

WCDMA Mode:

ANT3 Channel 4183

| Frequency (MHz) | Power (dBm) | Limited (dBm) | Polarization |
|-----------------|-------------|---------------|--------------|
| 1162.00 | -80.45 | -13 | Vertical |
| 1526.00 | -77.33 | -13 | Vertical |
| 2394.00 | -78.54 | -13 | Vertical |
| 3099.00 | -82.48 | -13 | Vertical |
| 3564.00 | -81.06 | -13 | Vertical |
| 4641.00 | -87.61 | -13 | Vertical |



LTE band 5

Test result:

ANT3 Channel 20525

| Frequency (MHz) | Power (dBm) | Limited (dBm) | Polarization |
|-----------------|-------------|---------------|--------------|
| 1491.40 | -76.71 | -13.00 | Vertical |
| 1939.40 | -83.22 | -13.00 | Vertical |
| 2451.19 | -78.39 | -13.00 | Vertical |
| 3120.00 | -82.85 | -13.00 | Vertical |
| 3555.00 | -80.79 | -13.00 | Vertical |
| 4461.00 | -89.08 | -13.00 | Vertical |

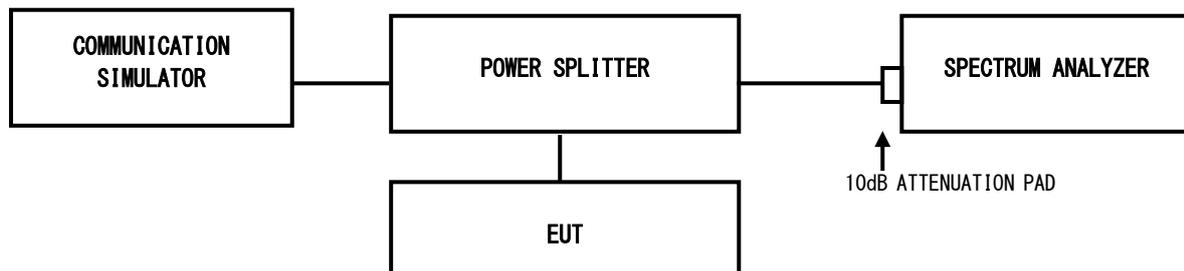


3.7 PEAK TO AVERAGE RATIO

3.7.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

3.7.2 TEST SETUP



3.7.3 TEST PROCEDURES

1. Set resolution/measurement bandwidth \geq signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.

3.7.4 TEST RESULTS

Please Refer to Appendix Of this test report.



4 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).

5 INFORMATION ON THE TESTING LABORATORIES

We, Huarui 7layers High Technology (Suzhou) Co., Ltd. ,were founded in 2020 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

Huarui 7Layers High Technology (Suzhou) Co., Ltd.

Lab Address:

Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province

Accredited Test Lab Cert 6613.01

If you have any comments, please feel free to contact us at the following:

Suzhou EMC/RF Lab:

Tel: +86 (0557) 368 1008

6 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.



7 APPENDIX

GSM850

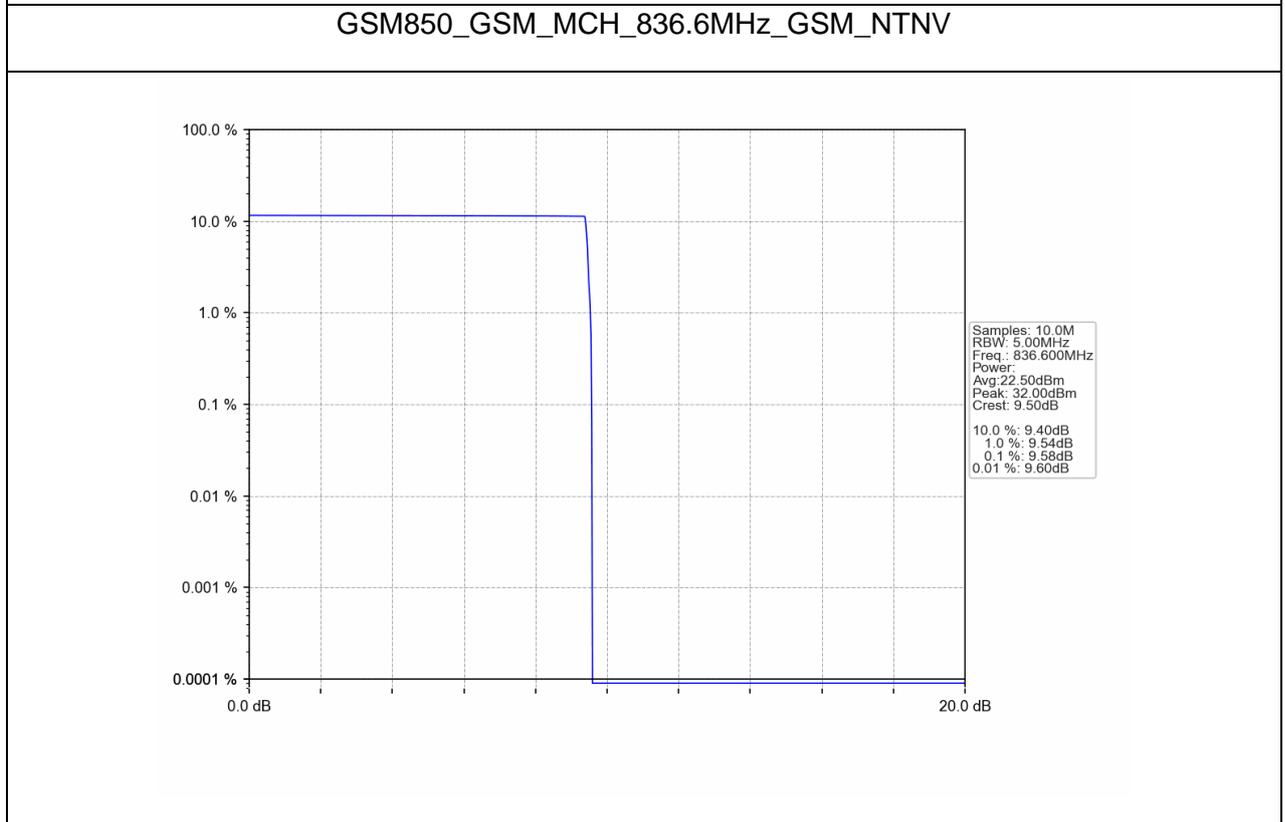
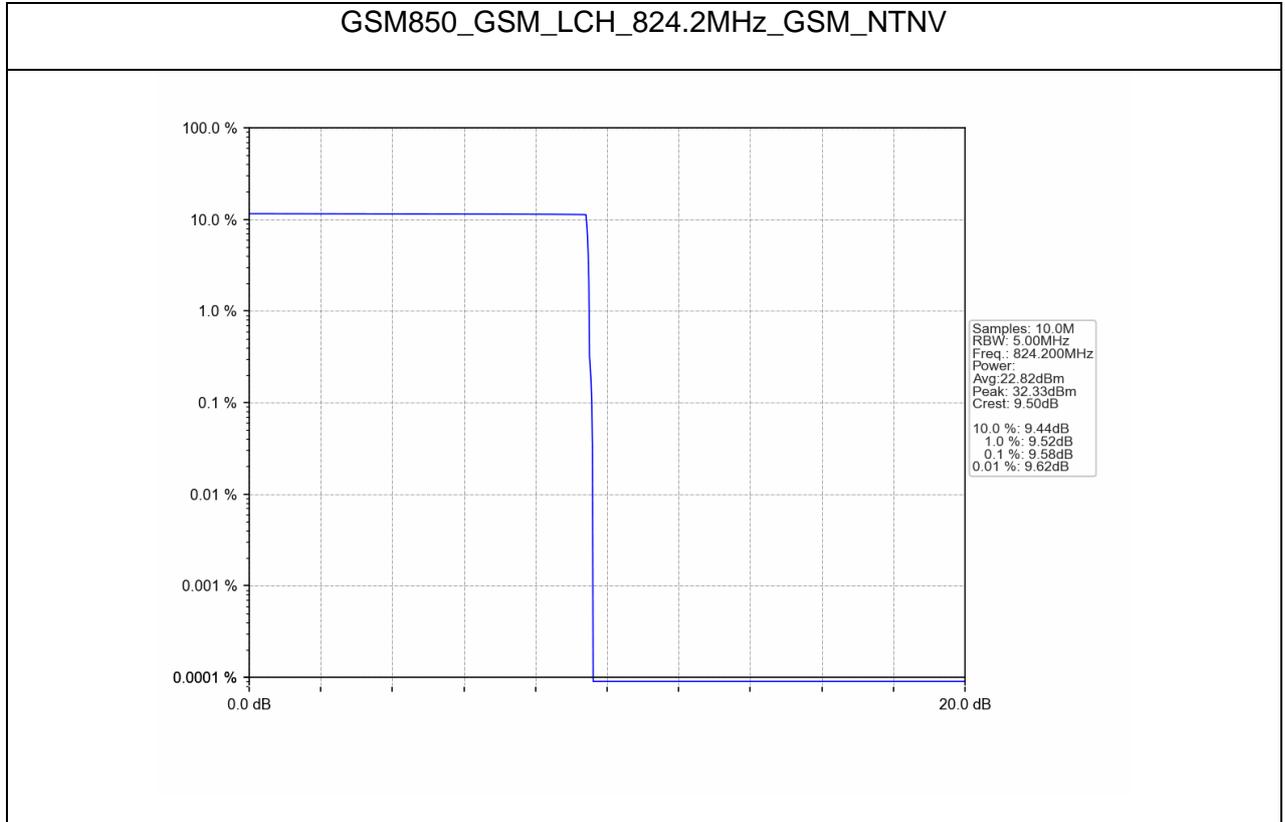
PEAK-TO-AVERAGE RATIO (CCDF)

Test Result

| Band: GSM850 | | | | | | |
|--------------|---------|------------|-----------------|-------------------------|-------|---------|
| ENV | Mode | | Frequency (MHz) | Peak-Average Ratio (dB) | | Verdict |
| | Network | Subset | | Result | Limit | |
| NTNV | GSM | GSM | 824.2 | 9.58 | <=13 | Pass |
| | | | 836.6 | 9.58 | <=13 | Pass |
| | | | 848.8 | 9.58 | <=13 | Pass |
| | GPRS | 4 TX Slots | 824.2 | 3.80 | <=13 | Pass |
| | | | 836.6 | 3.78 | <=13 | Pass |
| | | | 848.8 | 3.82 | <=13 | Pass |

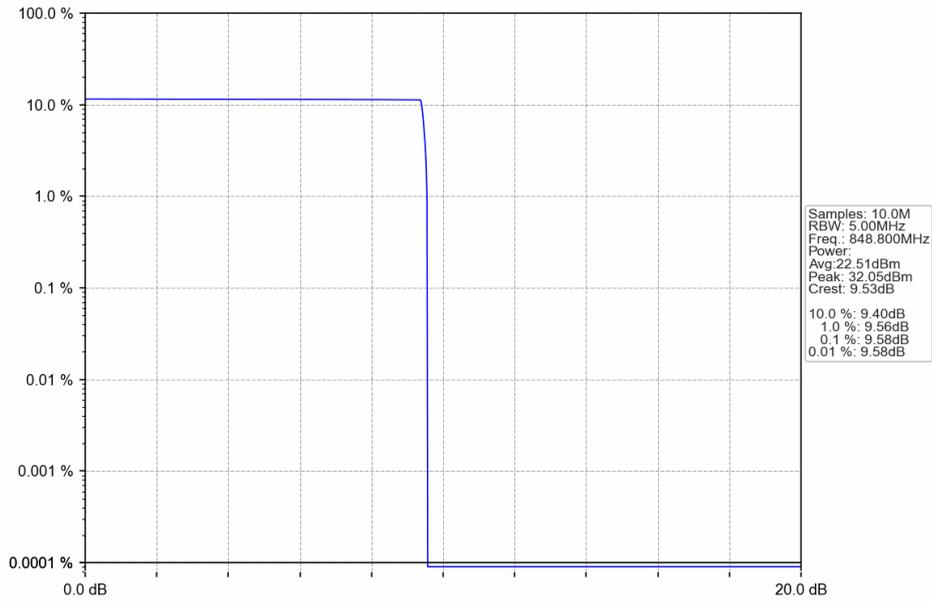


Test Graphs

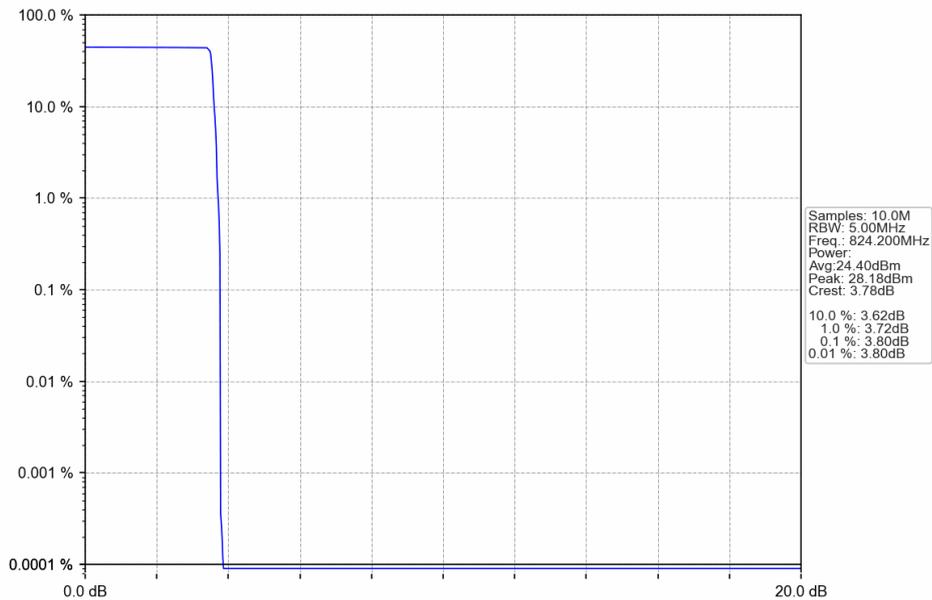




GSM850_GSM_HCH_848.8MHz_GSM_NTNV

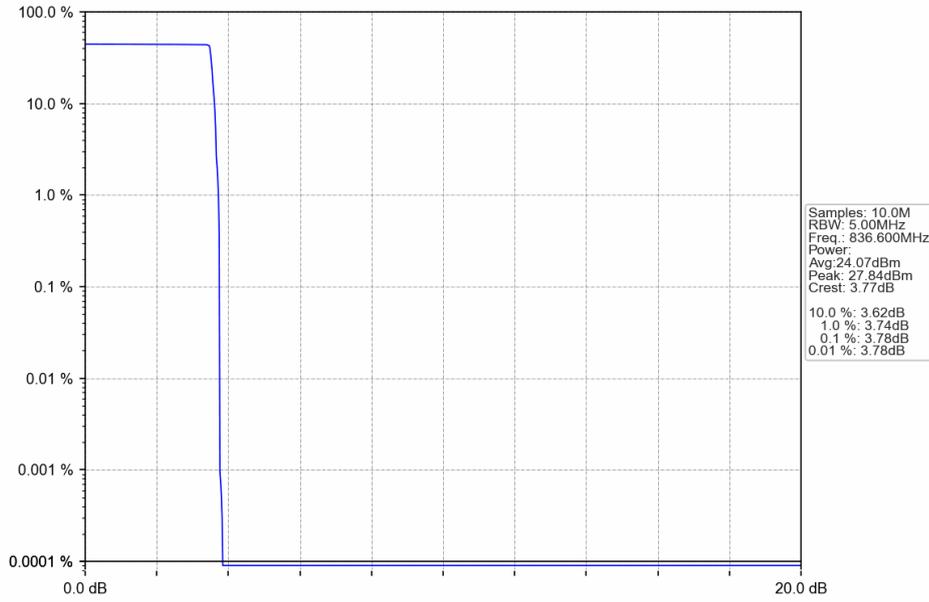


GSM850_GPRS_LCH_824.2MHz_4 TX Slots_NTNV

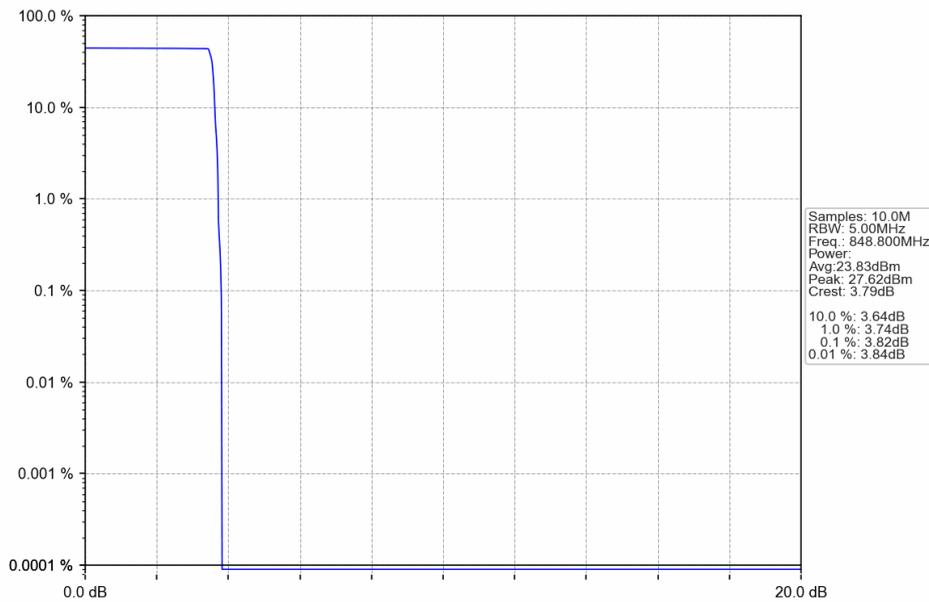




GSM850_GPRS_MCH_836.6MHz_4 TX Slots_NTNV



GSM850_GPRS_HCH_848.8MHz_4 TX Slots_NTNV





26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

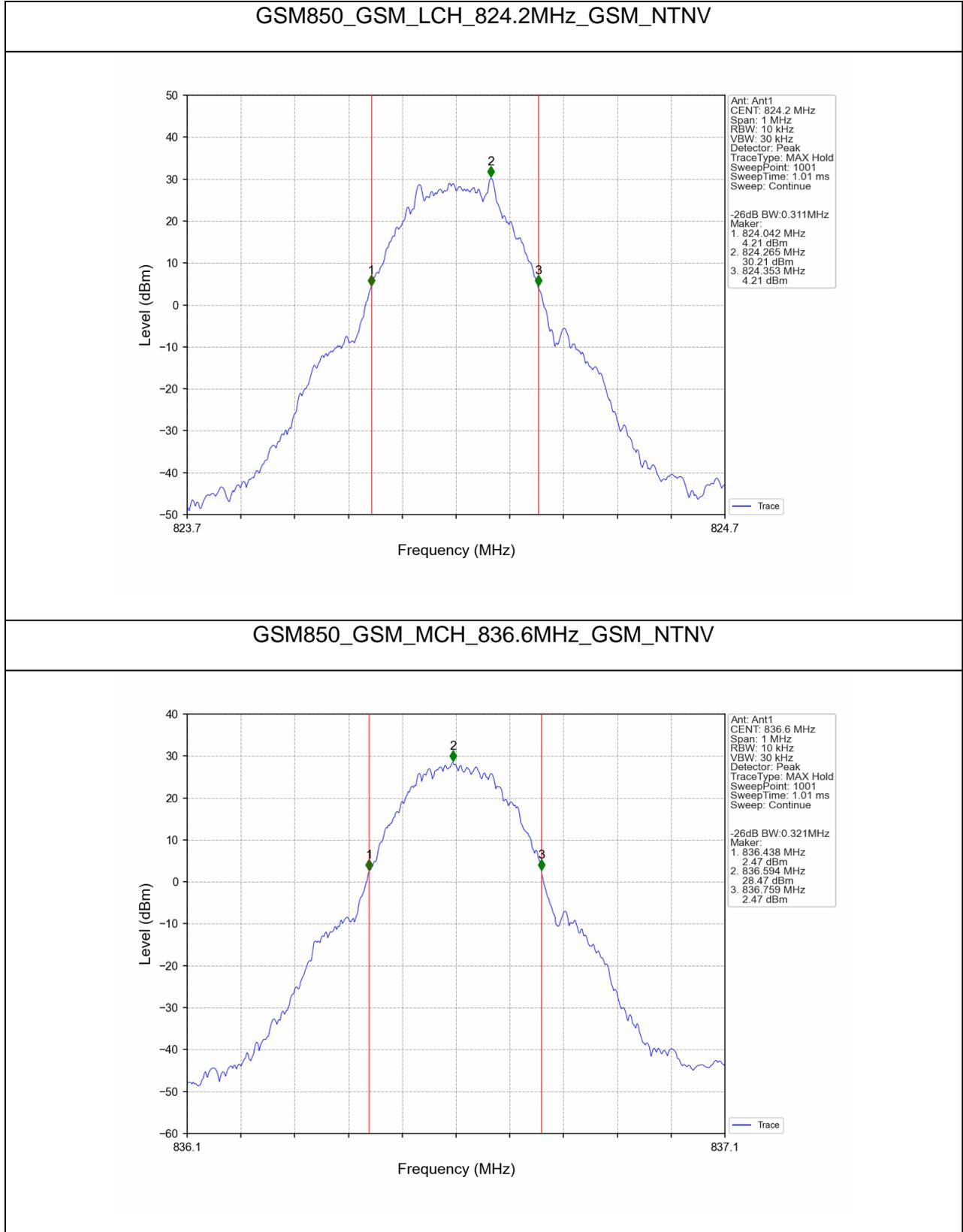
| Band: GSM850 | | | | | | |
|--------------|---------|-----------|-----------------|----------------------|-------|---------|
| ENV | Mode | | Frequency (MHz) | 26dB Bandwidth (MHz) | | Verdict |
| | Network | Subset | | Result | Limit | |
| NTNV | GSM | GSM | 824.2 | 0.311 | / | Pass |
| | | | 836.6 | 0.321 | / | Pass |
| | | | 848.8 | 0.318 | / | Pass |
| | GPRS | 1 TX Slot | 824.2 | 0.321 | / | Pass |
| | | | 836.6 | 0.319 | / | Pass |
| | | | 848.8 | 0.314 | / | Pass |

| Band: GSM850 | | | | | | |
|--------------|---------|-----------|-----------------|------------------------------|-------|---------|
| ENV | Mode | | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | | Verdict |
| | Network | Subset | | Result | Limit | |
| NTNV | GSM | GSM | 824.2 | 0.241 | / | Pass |
| | | | 836.6 | 0.246 | / | Pass |
| | | | 848.8 | 0.248 | / | Pass |
| | GPRS | 1 TX Slot | 824.2 | 0.240 | / | Pass |
| | | | 836.6 | 0.242 | / | Pass |
| | | | 848.8 | 0.242 | / | Pass |



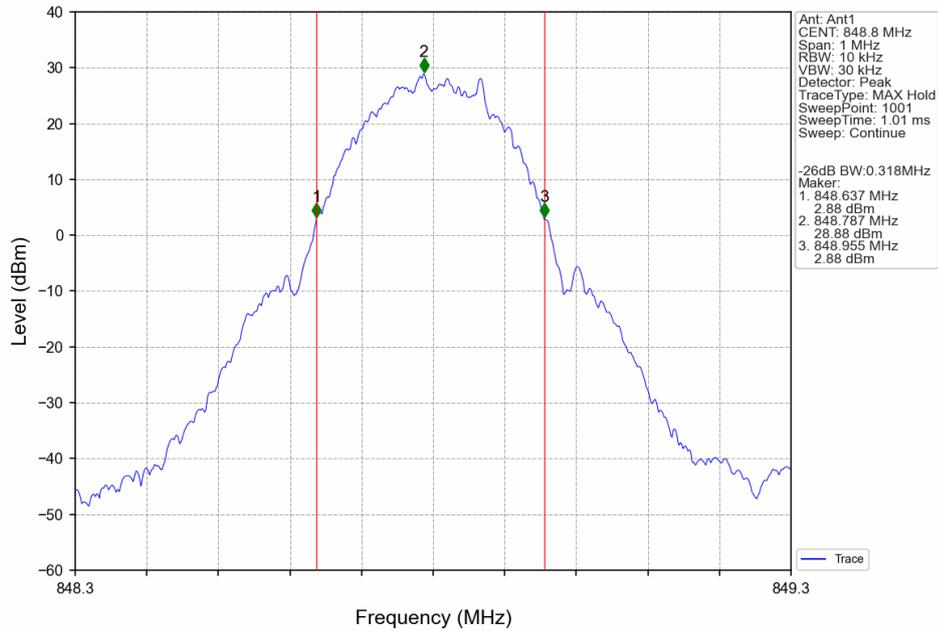
Test Graphs

26dB Bandwidth

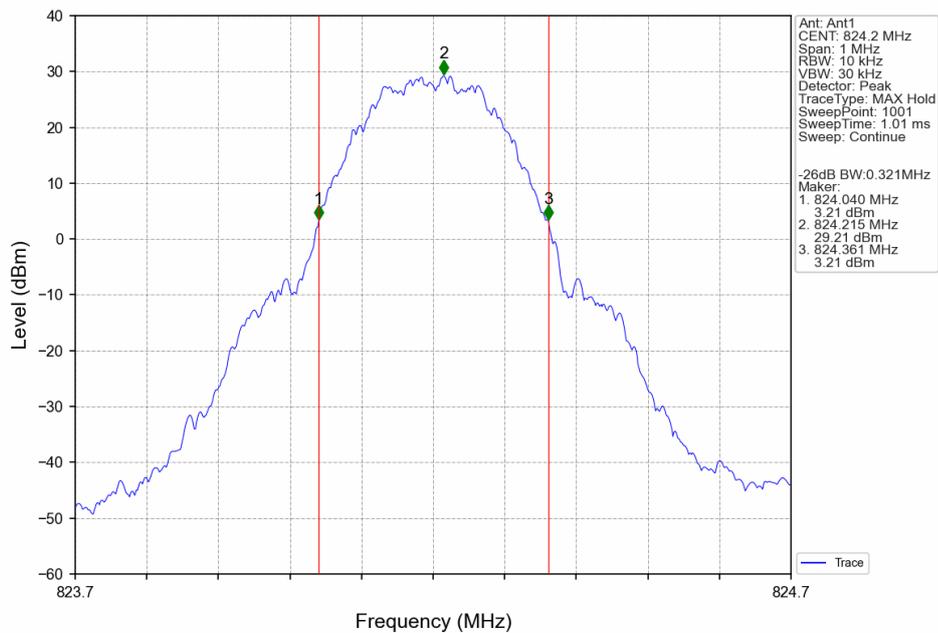




GSM850_GSM_HCH_848.8MHz_GSM_NTNV

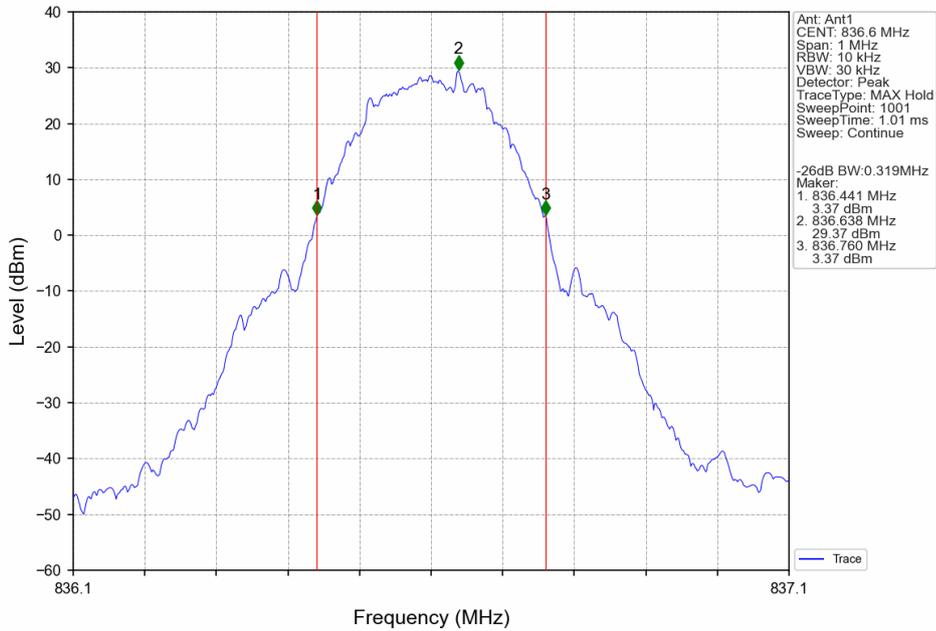


GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV

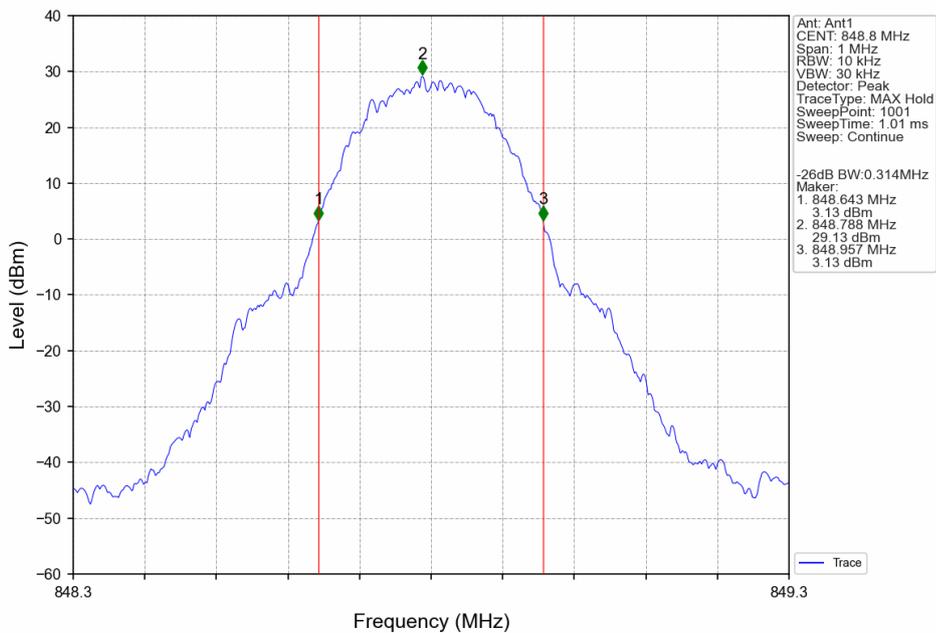




GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV

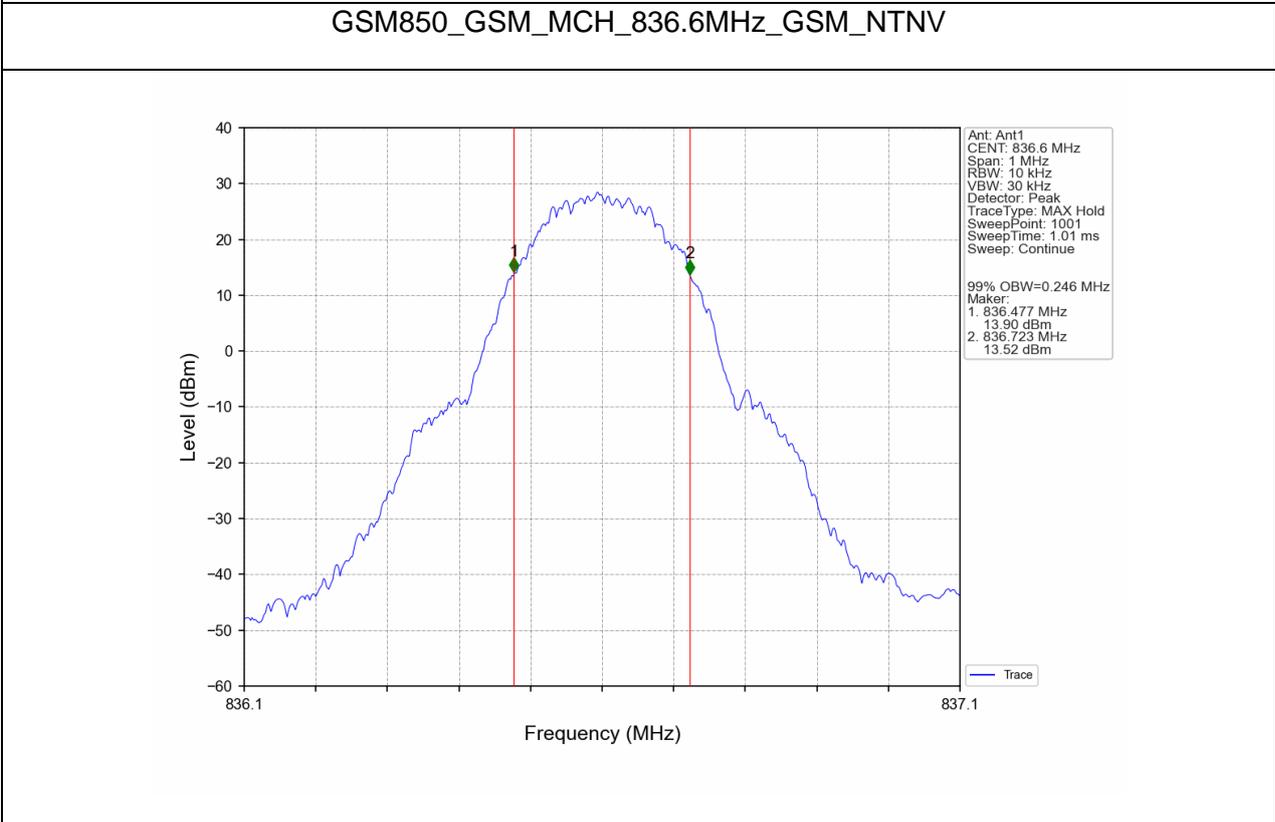
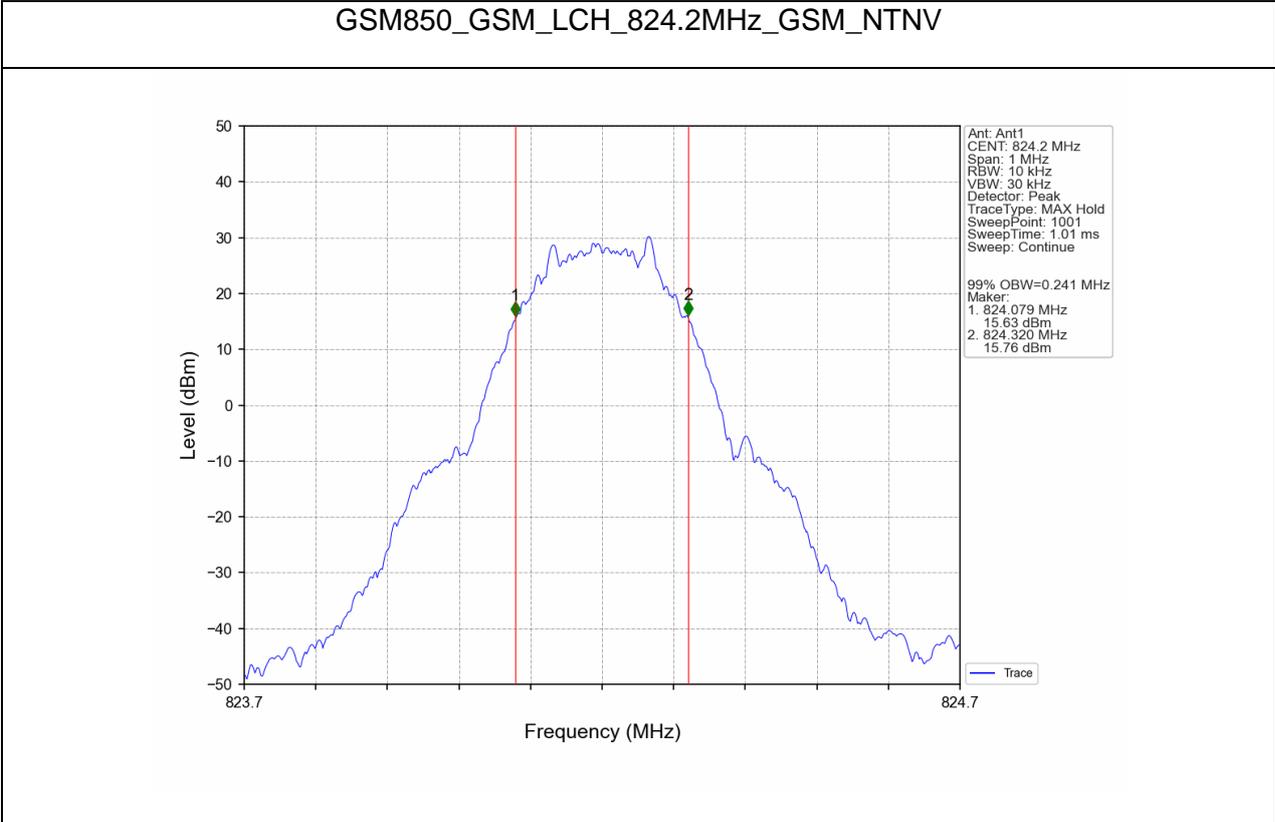


GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV





Occupied Bandwidth

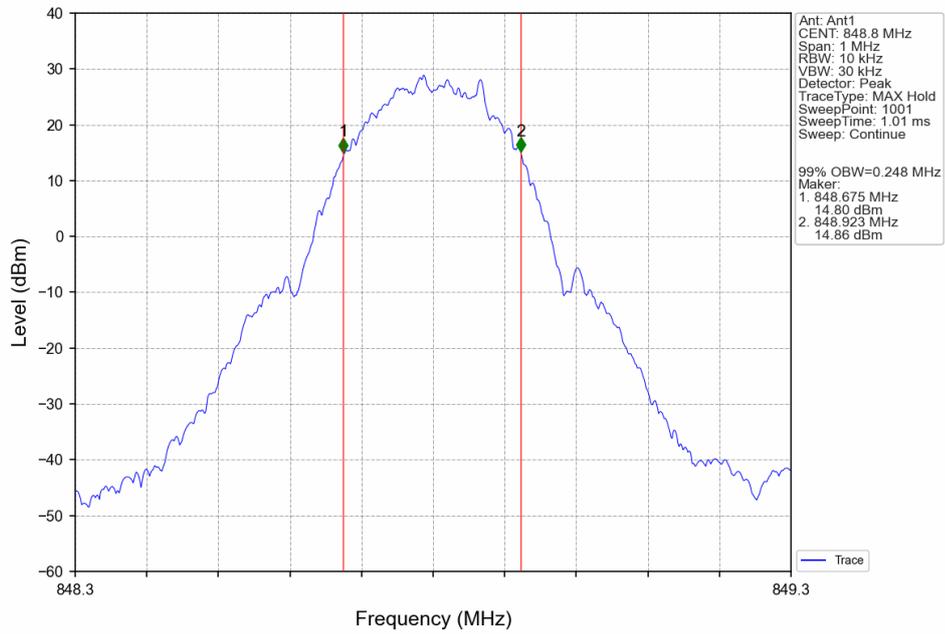




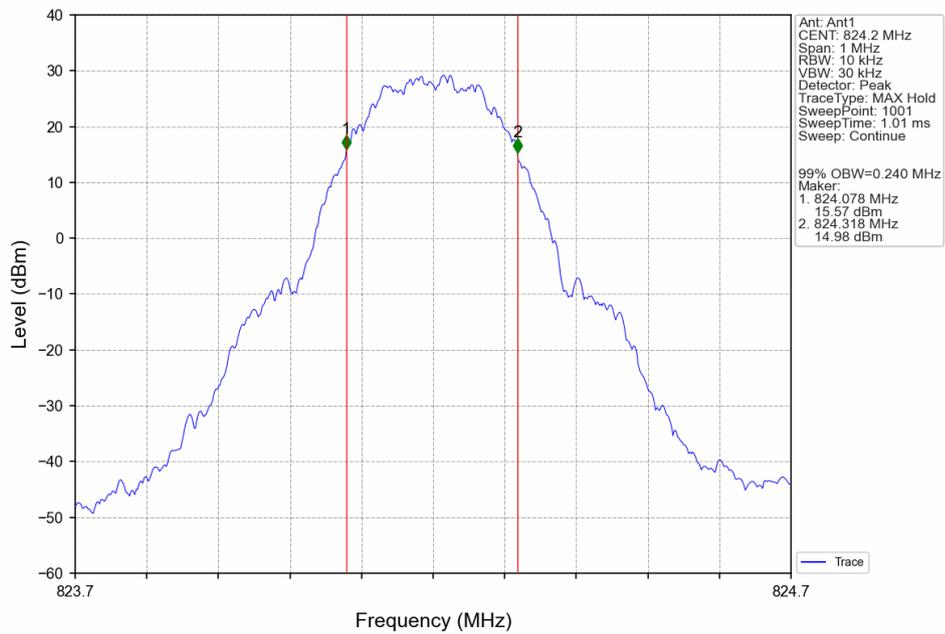
BUREAU
VERITAS

Test Report No.: PSU-NQN2504150110RF01

GSM850_GSM_HCH_848.8MHz_GSM_NTNV



GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV

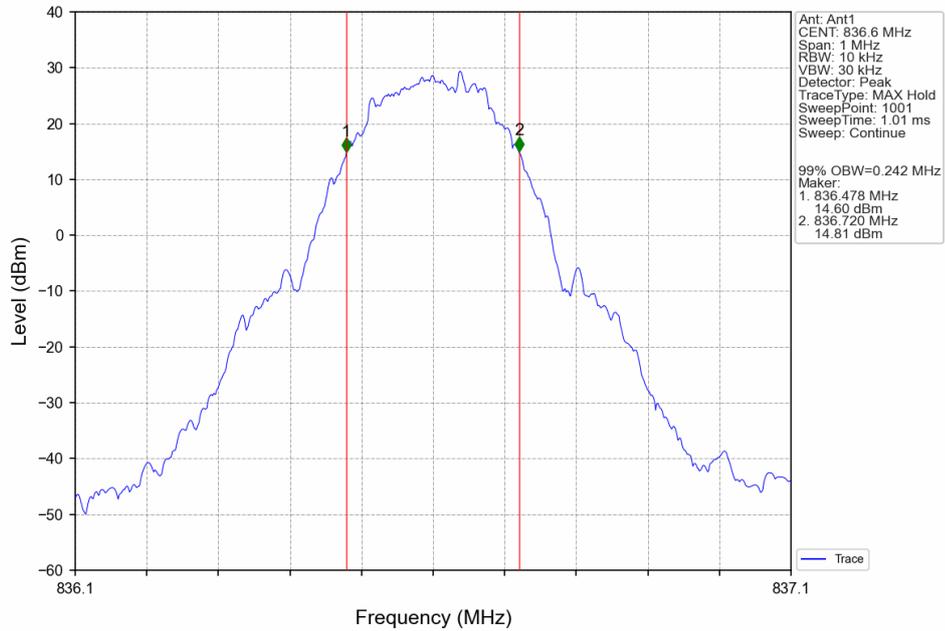




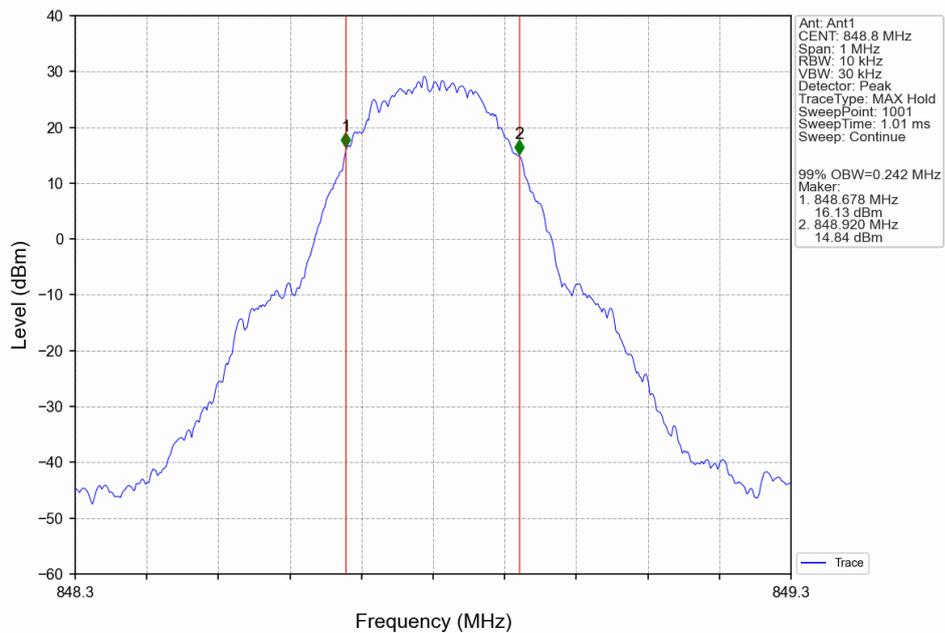
BUREAU
VERITAS

Test Report No.: PSU-NQN2504150110RF01

GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV





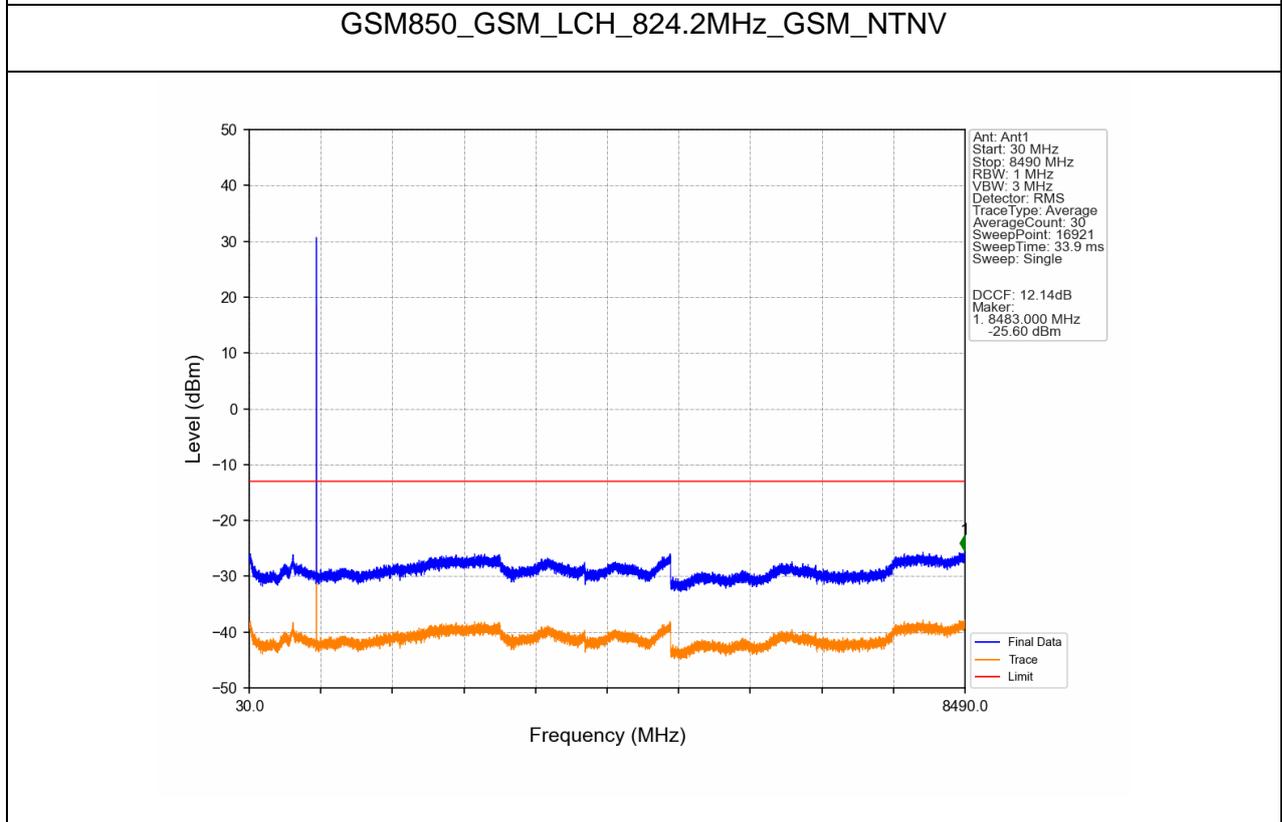
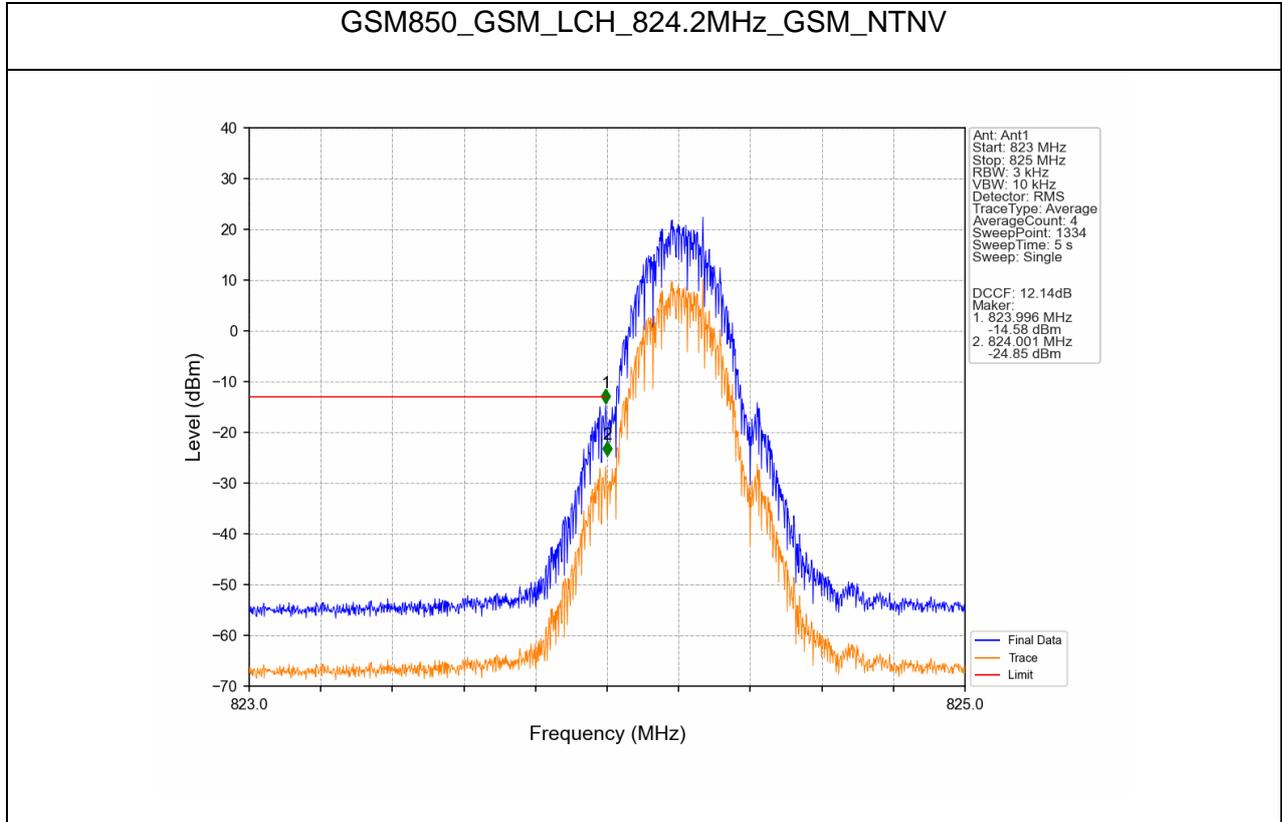
BAND EDGE AND SPURIOUS EMISSION

Test Result

| Band: GSM850 | | | | | | |
|--------------|---------|-----------|-----------------|---------------------|-------|---------|
| ENV | Mode | | Frequency (MHz) | Spurious Emission | | Verdict |
| | Network | Subset | | Result | Limit | |
| NTNV | GSM | GSM | 824.2 | Refer To Test Graph | -13 | Pass |
| | | | 836.6 | Refer To Test Graph | -13 | Pass |
| | | | 848.8 | Refer To Test Graph | -13 | Pass |
| | GPRS | 1 TX Slot | 824.2 | Refer To Test Graph | -13 | Pass |
| | | | 836.6 | Refer To Test Graph | -13 | Pass |
| | | | 848.8 | Refer To Test Graph | -13 | Pass |



Test Graphs

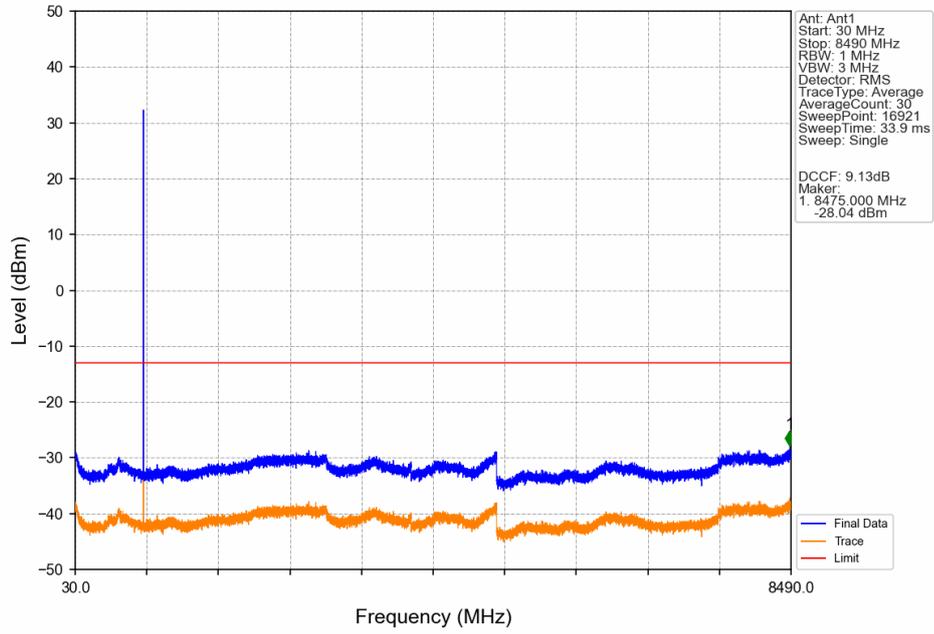




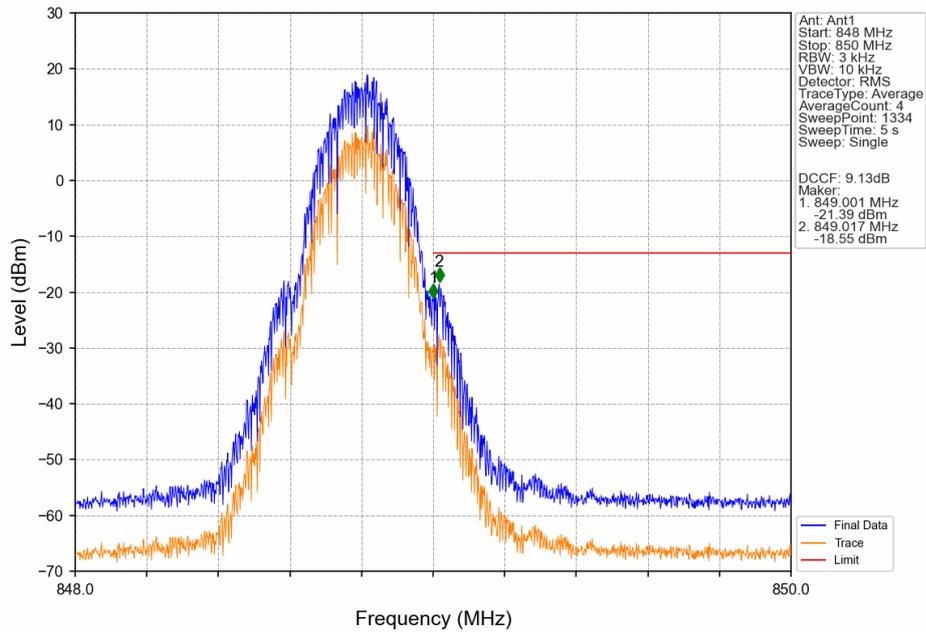
BUREAU
VERITAS

Test Report No.: PSU-NQN2504150110RF01

GSM850_GSM_MCH_836.6MHz_GSM_NTNV



GSM850_GSM_HCH_848.8MHz_GSM_NTNV

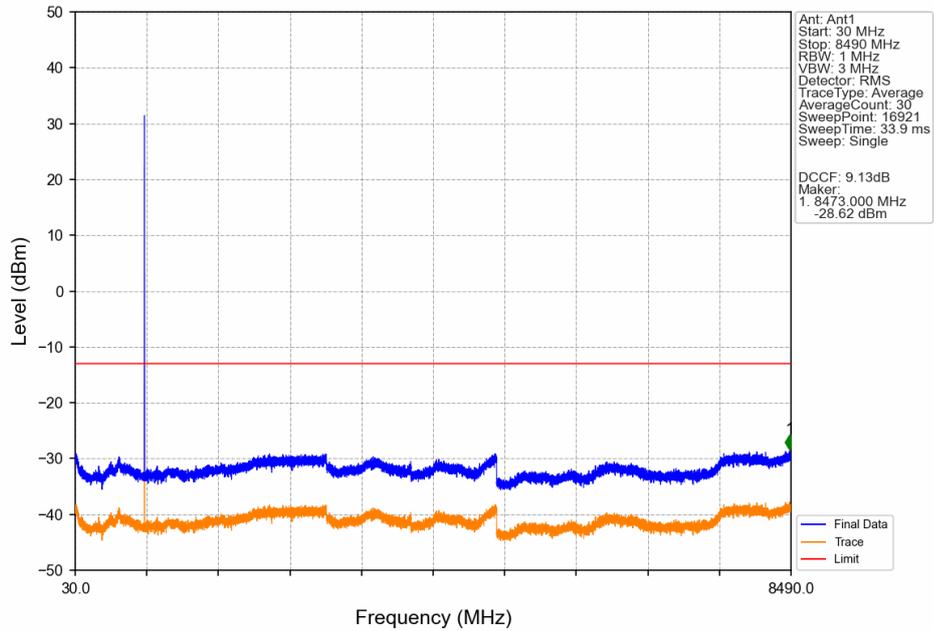




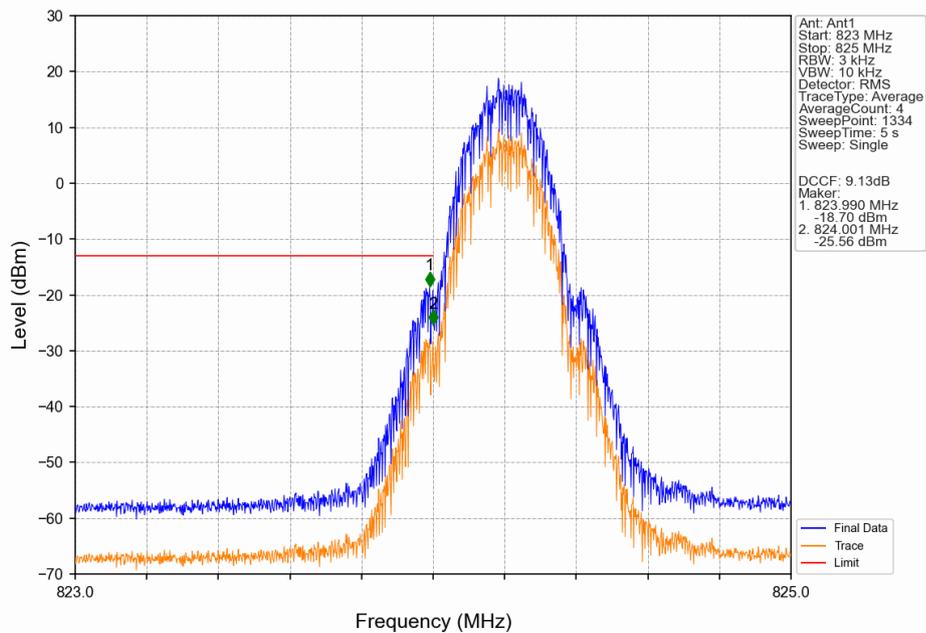
BUREAU VERITAS

Test Report No.: PSU-NQN2504150110RF01

GSM850_GSM_HCH_848.8MHz_GSM_NTNV



GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV

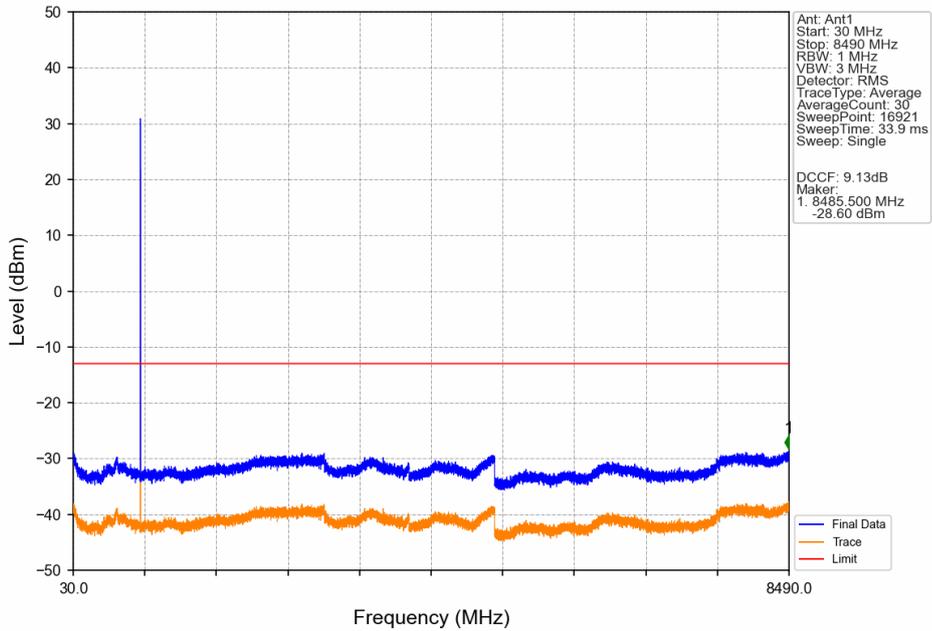




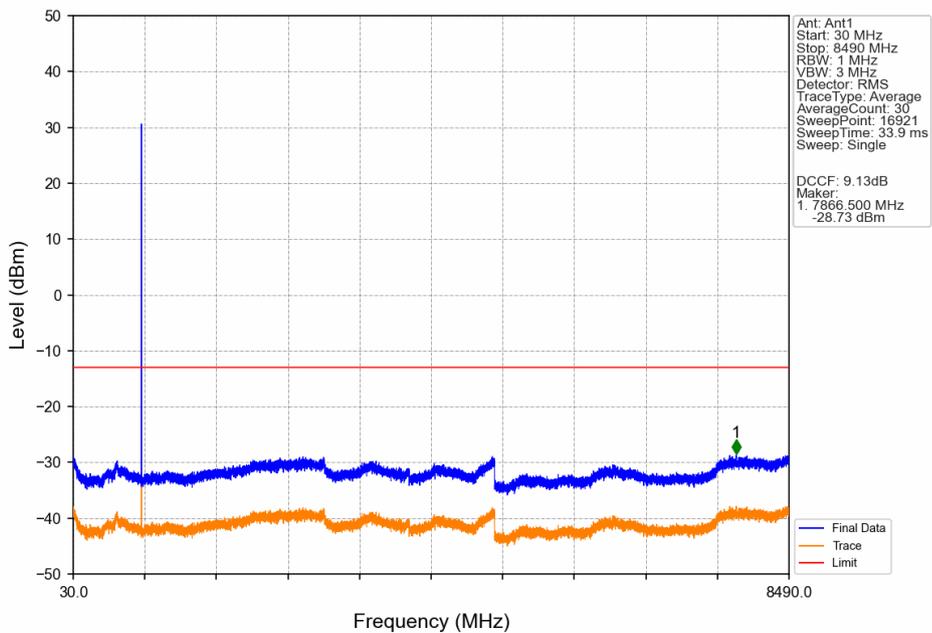
BUREAU
VERITAS

Test Report No.: PSU-NQN2504150110RF01

GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV

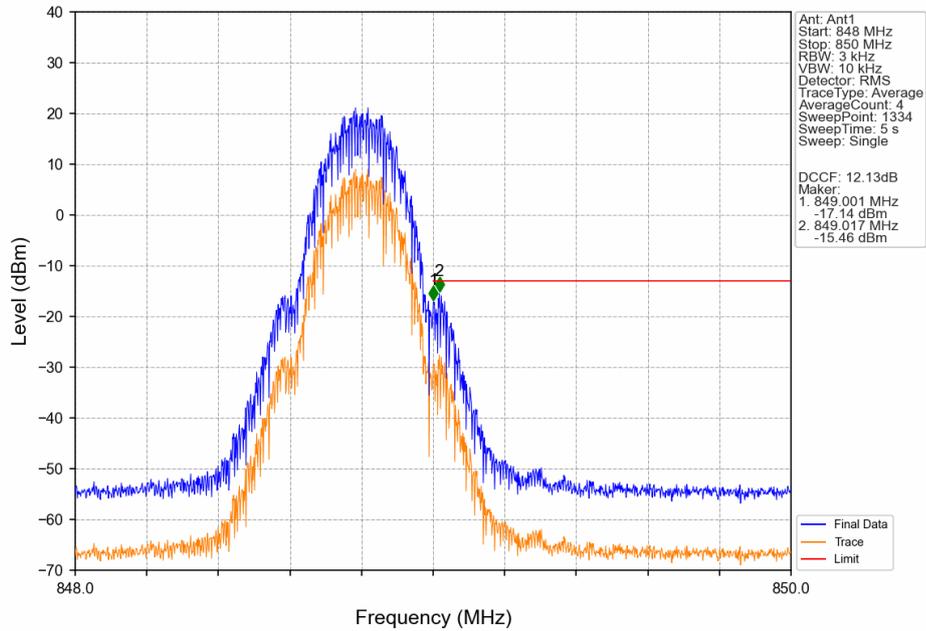




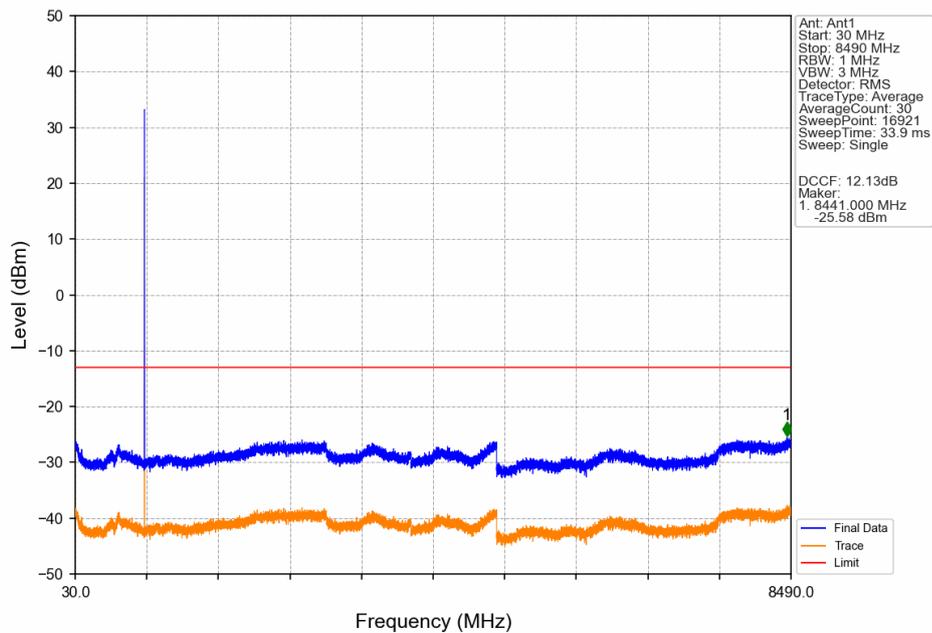
BUREAU
VERITAS

Test Report No.: PSU-NQN2504150110RF01

GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV





FREQUENCY STABILITY

Test Result

| Band: GSM850 | | | | | | | | |
|--------------|-----------------|------------|---------------|------------------|-----------------------|-------------|-------------|------|
| Network | Frequency (MHz) | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict | |
| | | | | | Result | Limit | | |
| GSM | 824.2 | 20 | 3.4 | 11.300 | 0.0137 | -2.5 to 2.5 | Pass | |
| | | | 4 | 15.497 | 0.0188 | -2.5 to 2.5 | Pass | |
| | | | 4.6 | 15.239 | 0.0185 | -2.5 to 2.5 | Pass | |
| | | 5 | 4 | 14.044 | 0.0170 | -2.5 to 2.5 | Pass | |
| | | 15 | 4 | 11.139 | 0.0135 | -2.5 to 2.5 | Pass | |
| | | 25 | 4 | 14.173 | 0.0172 | -2.5 to 2.5 | Pass | |
| | 836.6 | 20 | 3.4 | 11.913 | 0.0142 | -2.5 to 2.5 | Pass | |
| | | | 4 | 8.846 | 0.0106 | -2.5 to 2.5 | Pass | |
| | | | 4.6 | 13.399 | 0.0160 | -2.5 to 2.5 | Pass | |
| | | 5 | 4 | 9.912 | 0.0118 | -2.5 to 2.5 | Pass | |
| | | 15 | 4 | 13.721 | 0.0164 | -2.5 to 2.5 | Pass | |
| | | 25 | 4 | 15.239 | 0.0182 | -2.5 to 2.5 | Pass | |
| | 848.8 | 20 | 3.4 | 9.783 | 0.0115 | -2.5 to 2.5 | Pass | |
| | | | 4 | 12.172 | 0.0143 | -2.5 to 2.5 | Pass | |
| | | | 4.6 | 12.236 | 0.0144 | -2.5 to 2.5 | Pass | |
| | | 5 | 4 | 13.108 | 0.0154 | -2.5 to 2.5 | Pass | |
| | | 15 | 4 | 12.430 | 0.0146 | -2.5 to 2.5 | Pass | |
| | | 25 | 4 | 7.393 | 0.0087 | -2.5 to 2.5 | Pass | |
| | GPRS | 824.2 | 20 | 3.4 | 21.793 | 0.0264 | -2.5 to 2.5 | Pass |
| | | | | 4 | 21.890 | 0.0266 | -2.5 to 2.5 | Pass |
| | | | | 4.6 | 21.987 | 0.0267 | -2.5 to 2.5 | Pass |
| | | | 5 | 4 | 21.987 | 0.0267 | -2.5 to 2.5 | Pass |
| | | | 15 | 4 | 21.632 | 0.0262 | -2.5 to 2.5 | Pass |
| | | | 25 | 4 | 19.275 | 0.0234 | -2.5 to 2.5 | Pass |
| 836.6 | | 20 | 3.4 | 21.761 | 0.0260 | -2.5 to 2.5 | Pass | |
| | | | 4 | 21.535 | 0.0257 | -2.5 to 2.5 | Pass | |
| | | | 4.6 | 20.760 | 0.0248 | -2.5 to 2.5 | Pass | |
| | | 5 | 4 | 20.405 | 0.0244 | -2.5 to 2.5 | Pass | |
| | | 15 | 4 | 21.276 | 0.0254 | -2.5 to 2.5 | Pass | |
| | | 25 | 4 | 20.792 | 0.0249 | -2.5 to 2.5 | Pass | |
| 848.8 | | 20 | 3.4 | 17.628 | 0.0208 | -2.5 to 2.5 | Pass | |
| | | | 4 | 20.437 | 0.0241 | -2.5 to 2.5 | Pass | |
| | | | 4.6 | 20.017 | 0.0236 | -2.5 to 2.5 | Pass | |
| | | 5 | 4 | 19.210 | 0.0226 | -2.5 to 2.5 | Pass | |
| | | 15 | 4 | 19.888 | 0.0234 | -2.5 to 2.5 | Pass | |
| | | 25 | 4 | 19.856 | 0.0234 | -2.5 to 2.5 | Pass | |
| | | | 35 | 4 | 18.112 | 0.0213 | -2.5 to 2.5 | Pass |



WCMDA BAND5

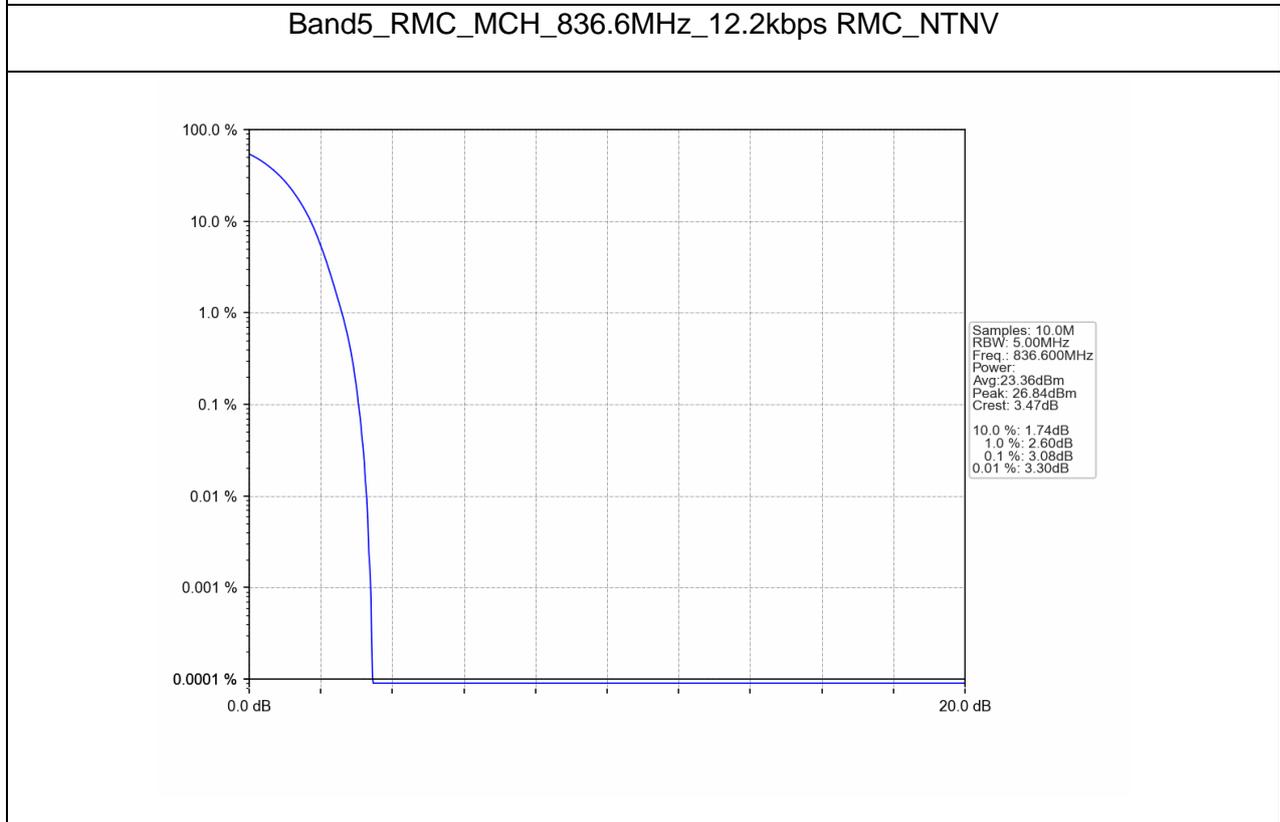
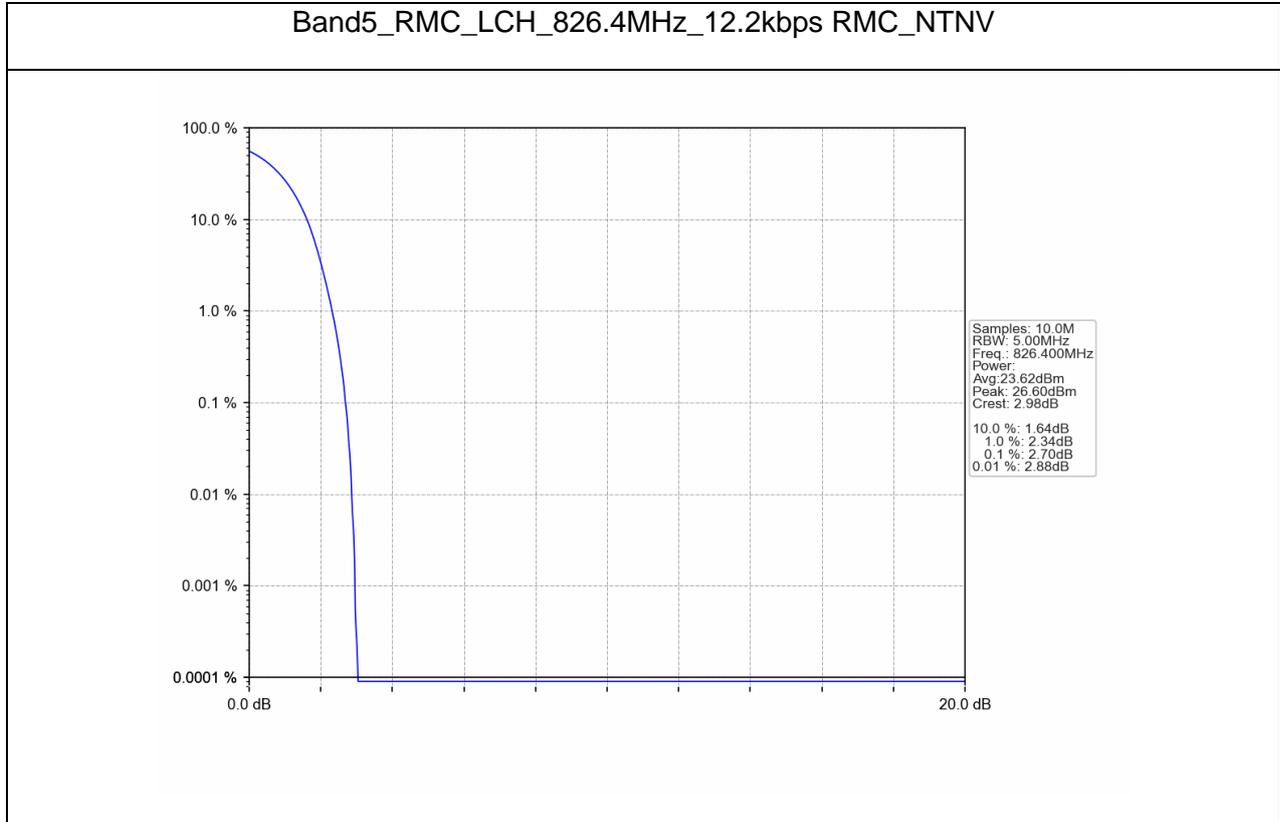
PEAK-TO-AVERAGE RATIO

Test Result

| WCMDA BAND5 | | | | | | |
|-------------|---------|--------------|-----------------|-------------------------|-------|---------|
| ENV | Mode | | Frequency (MHz) | Peak-Average Ratio (dB) | | Verdict |
| | Network | Subset | | Result | Limit | |
| NTNV | RMC | 12.2kbps RMC | 826.4 | 2.70 | <=13 | Pass |
| | | | 836.6 | 3.08 | <=13 | Pass |
| | | | 846.6 | 2.94 | <=13 | Pass |
| | HSDPA | Subtest 1 | 826.4 | 5.64 | <=13 | Pass |
| | | | 836.6 | 5.78 | <=13 | Pass |
| | | | 846.6 | 5.76 | <=13 | Pass |
| | HSUPA | Subtest 1 | 826.4 | 6.42 | <=13 | Pass |
| | | | 836.6 | 6.88 | <=13 | Pass |
| | | | 846.6 | 6.68 | <=13 | Pass |

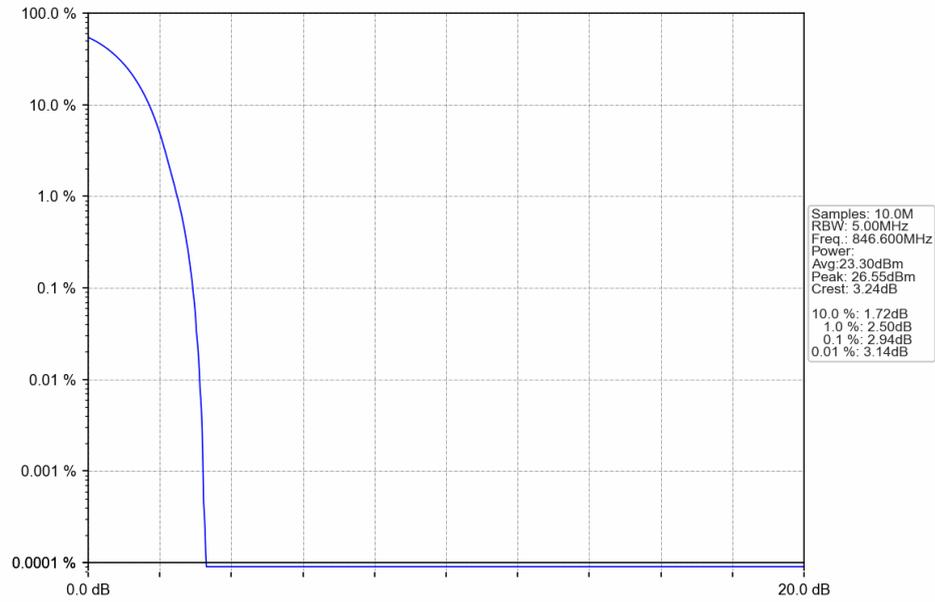


Test Graphs

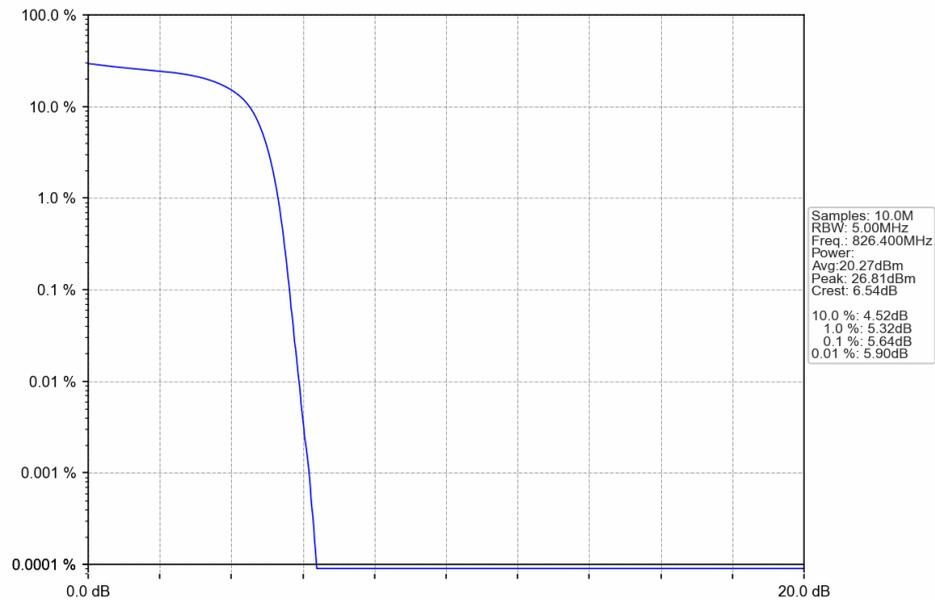




Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV

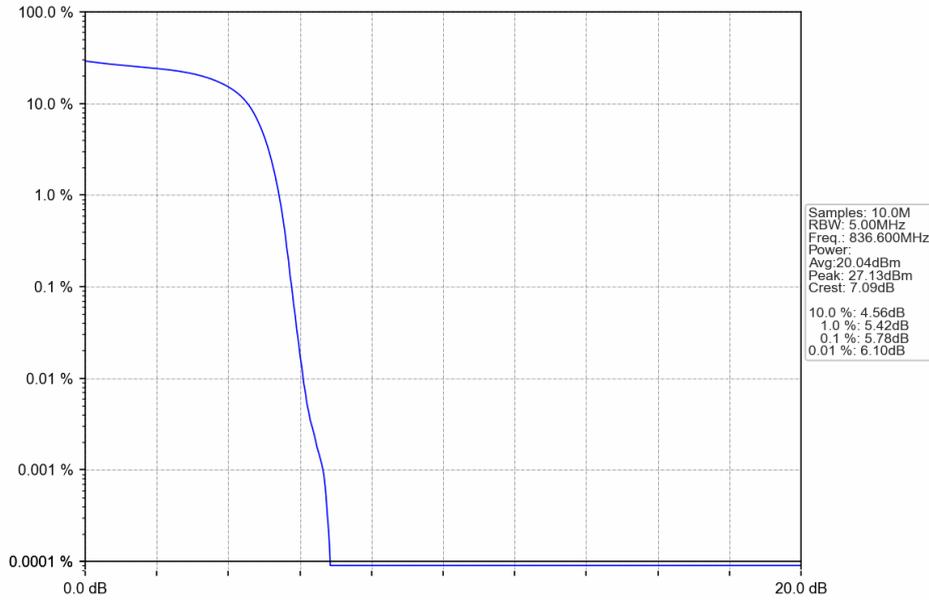


Band5_HSDPA_LCH_826.4MHz_Subtest 1_NTNV

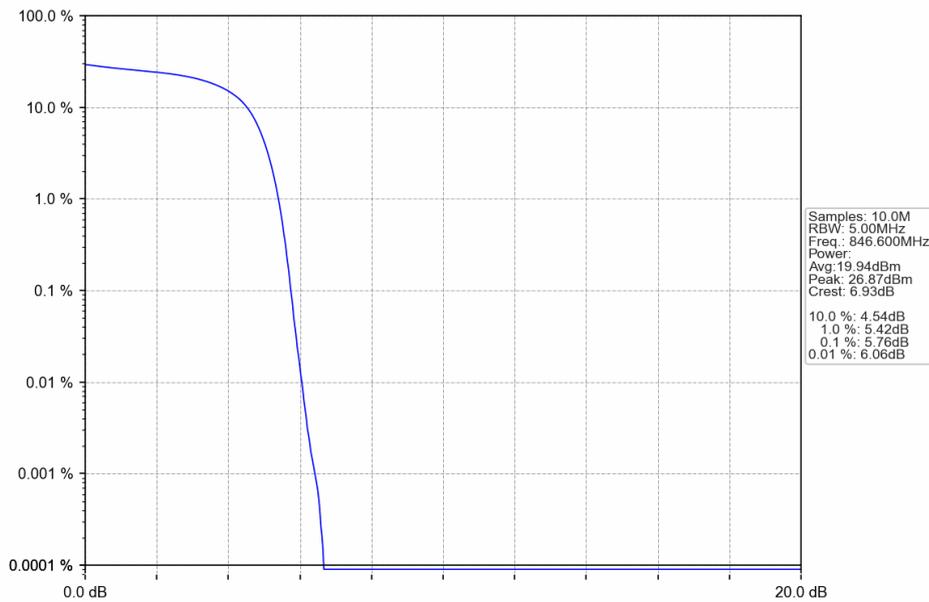




Band5_HSDPA_MCH_836.6MHz_Subtest 1_NTNV

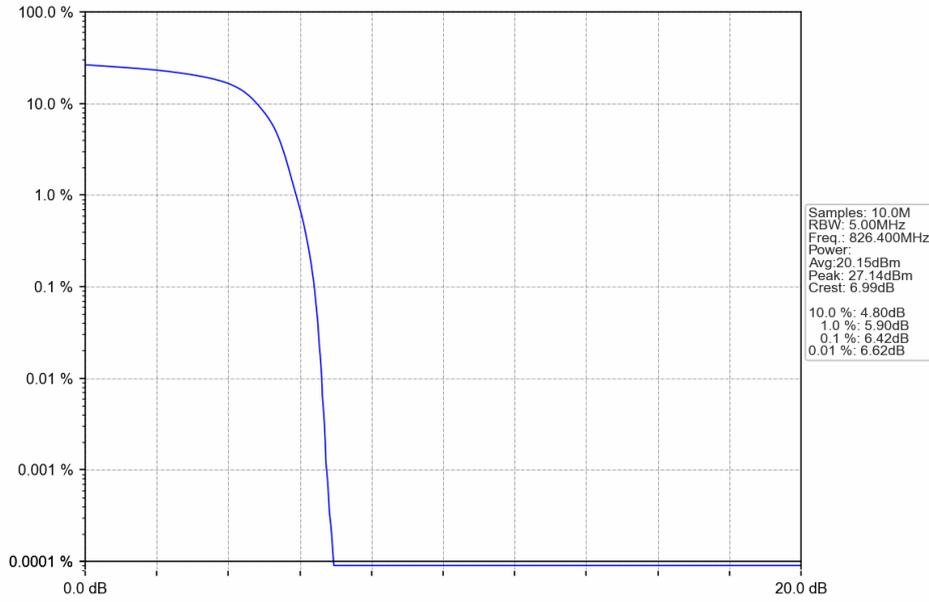


Band5_HSDPA_HCH_846.6MHz_Subtest 1_NTNV

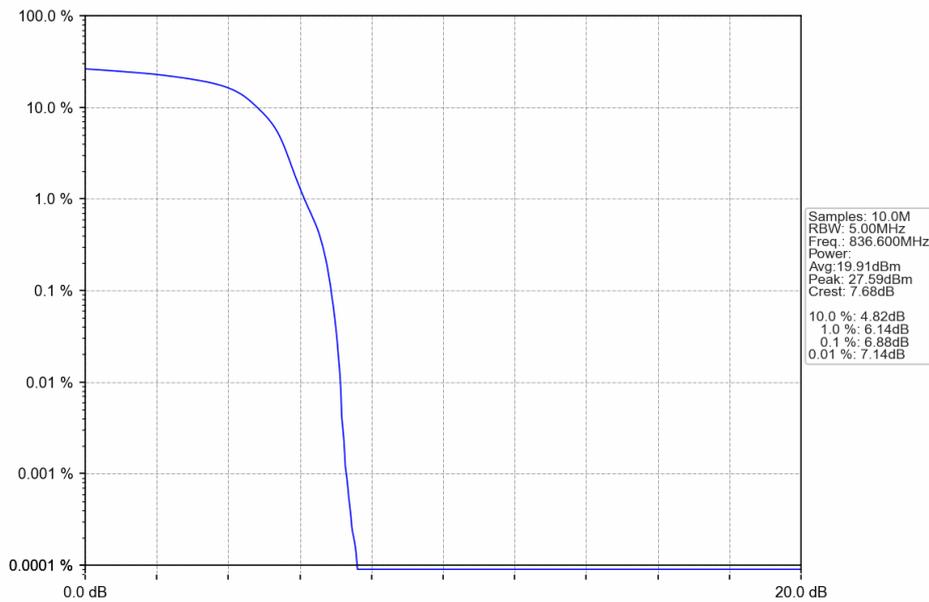


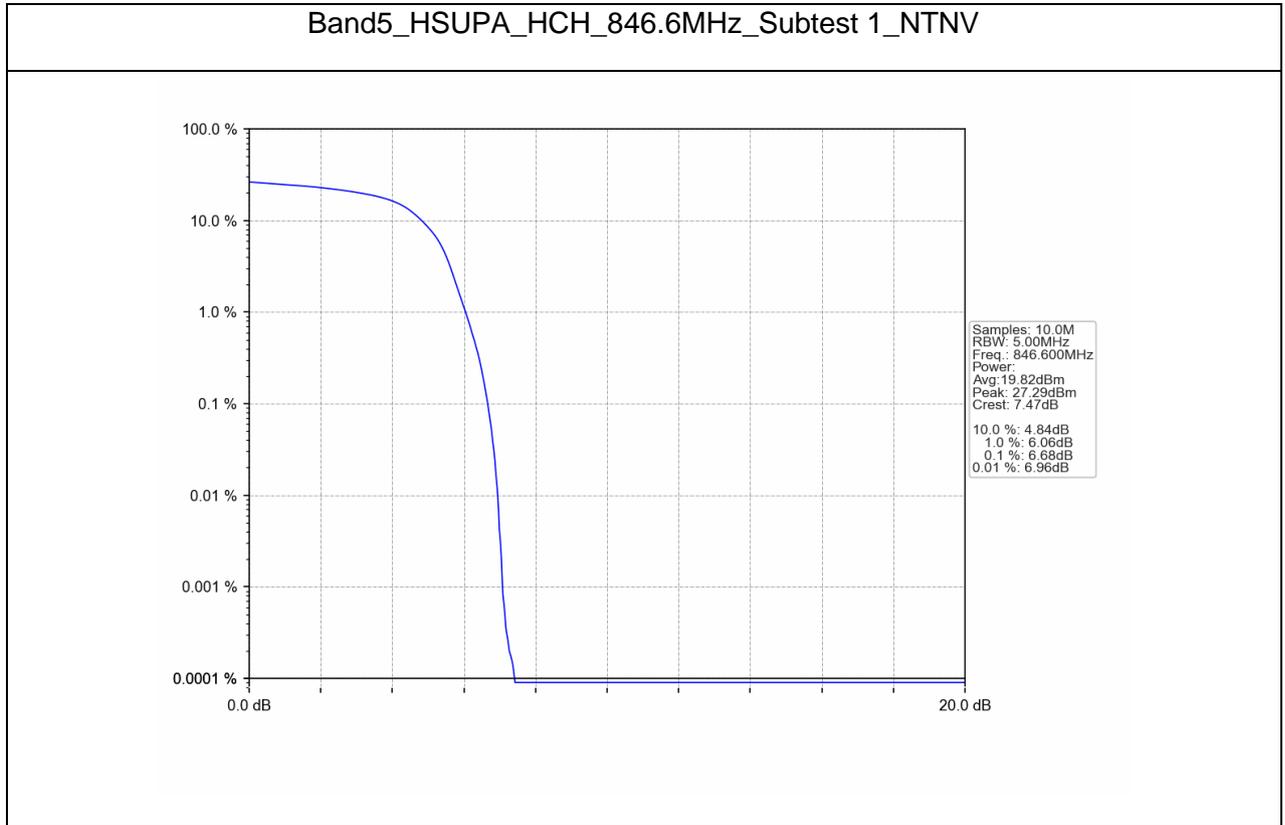


Band5_HSUPA_LCH_826.4MHz_Subtest 1_NTNV



Band5_HSUPA_MCH_836.6MHz_Subtest 1_NTNV







26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

| WCDMA BAND5 | | | | | | |
|-------------|---------|--------------|-----------------|----------------------|-------|---------|
| ENV | Mode | | Frequency (MHz) | 26dB Bandwidth (MHz) | | Verdict |
| | Network | Subset | | Result | Limit | |
| NTNV | RMC | 12.2kbps RMC | 826.4 | 4.773 | / | Pass |
| | | | 836.6 | 4.728 | / | Pass |
| | | | 846.6 | 4.735 | / | Pass |
| | HSDPA | Subtest 1 | 826.4 | 4.722 | / | Pass |
| | | | 836.6 | 4.735 | / | Pass |
| | | | 846.6 | 4.745 | / | Pass |
| | HSUPA | Subtest 1 | 826.4 | 4.721 | / | Pass |
| | | | 836.6 | 4.729 | / | Pass |
| | | | 846.6 | 4.726 | / | Pass |

| WCDMA BAND5 | | | | | | |
|-------------|---------|--------------|-----------------|------------------------------|-------|---------|
| ENV | Mode | | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | | Verdict |
| | Network | Subset | | Result | Limit | |
| NTNV | RMC | 12.2kbps RMC | 826.4 | 4.148 | / | Pass |
| | | | 836.6 | 4.152 | / | Pass |
| | | | 846.6 | 4.151 | / | Pass |
| | HSDPA | Subtest 1 | 826.4 | 4.139 | / | Pass |
| | | | 836.6 | 4.158 | / | Pass |
| | | | 846.6 | 4.157 | / | Pass |
| | HSUPA | Subtest 1 | 826.4 | 4.148 | / | Pass |
| | | | 836.6 | 4.150 | / | Pass |
| | | | 846.6 | 4.171 | / | Pass |

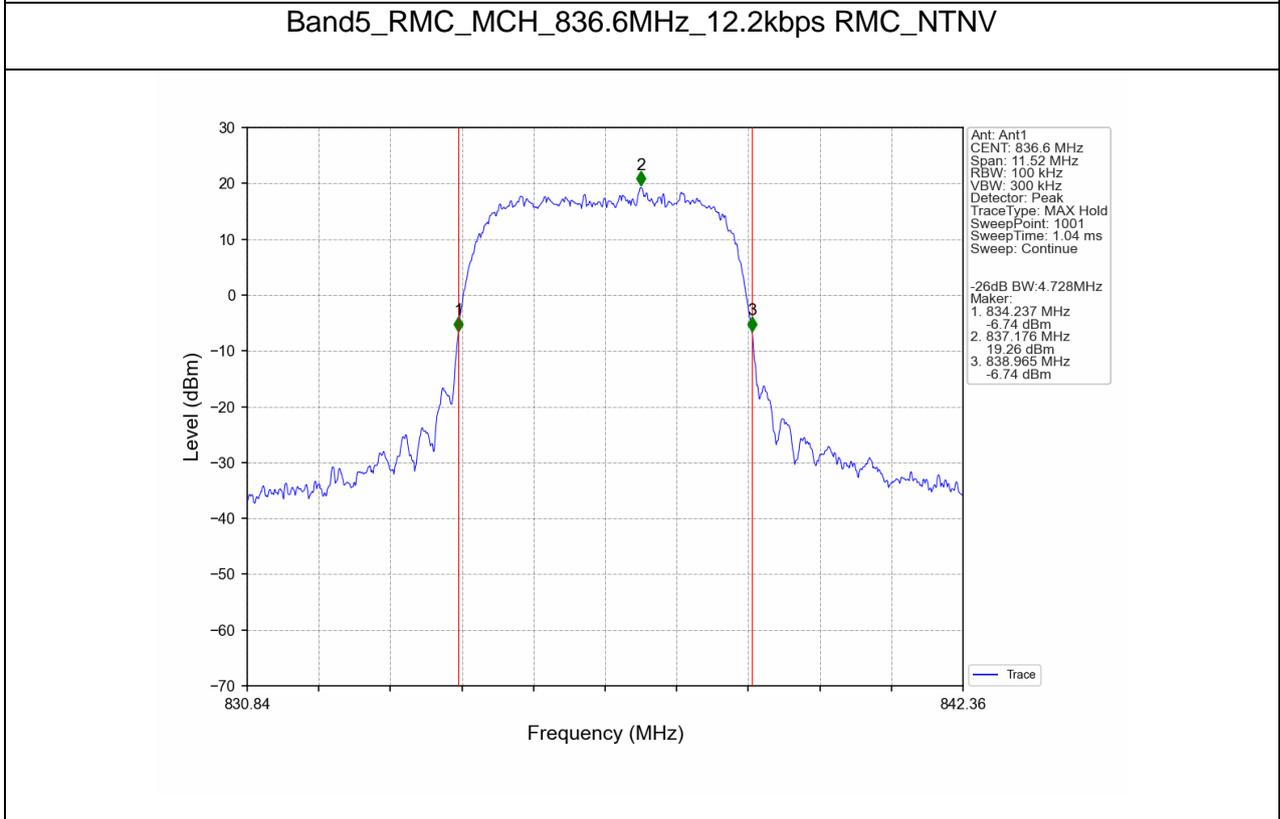
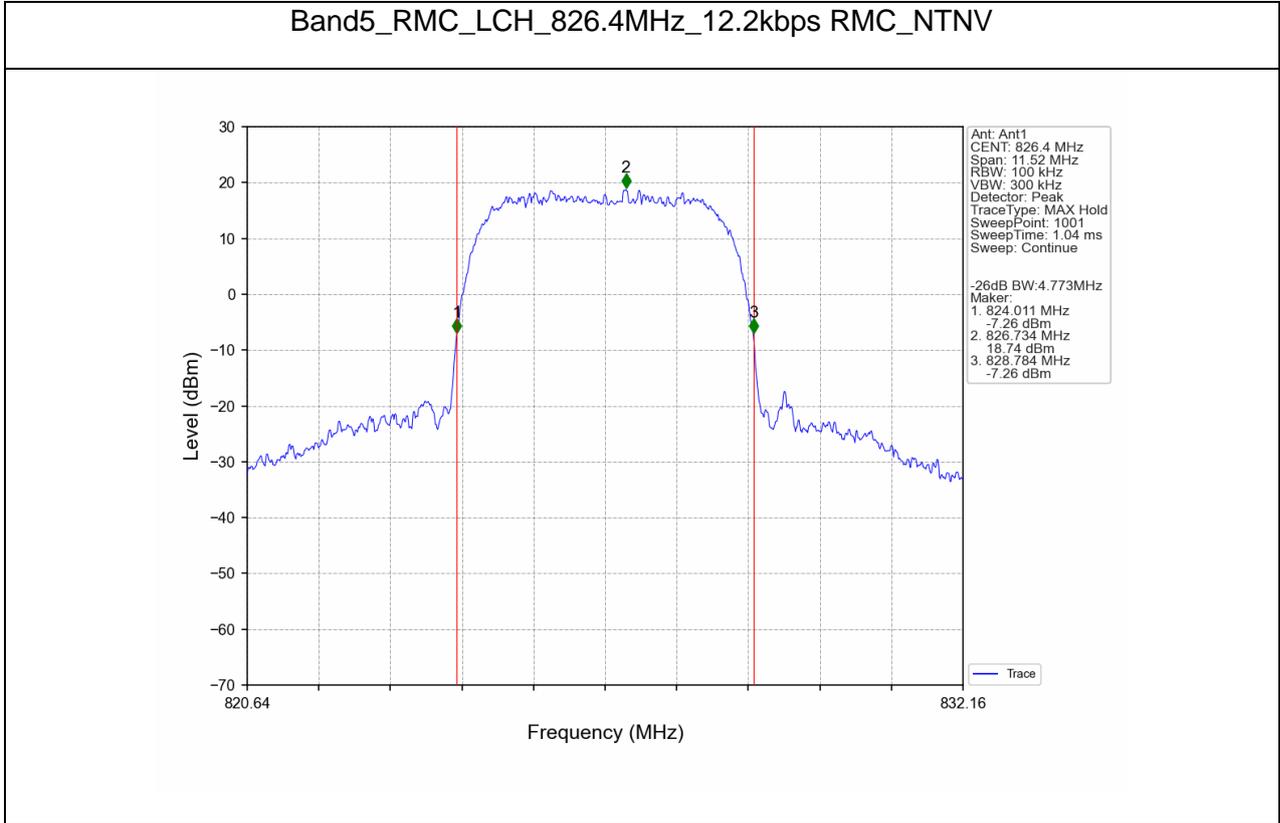


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Test Report No.: PSU-NQN2504150110RF01

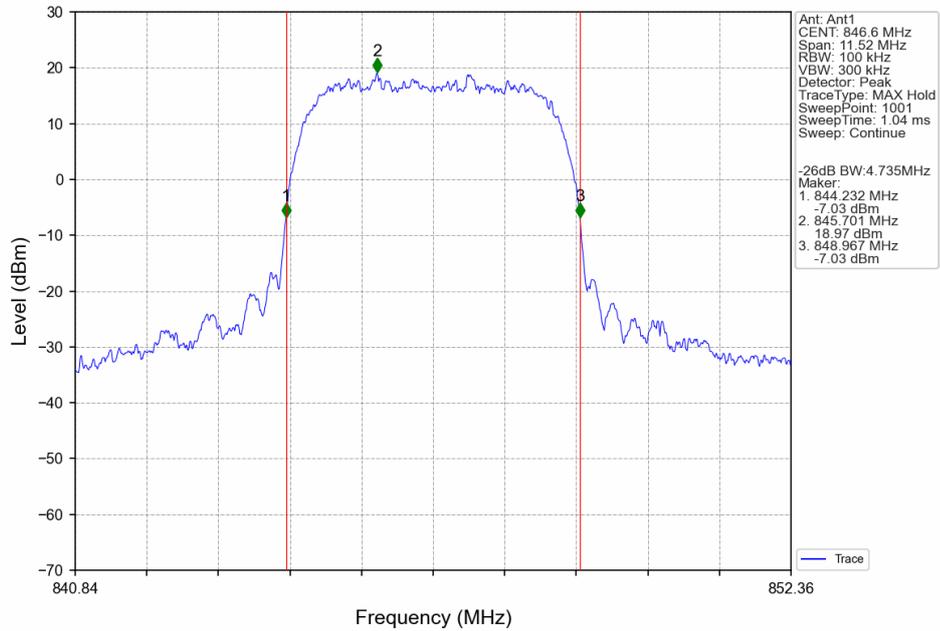
Test Graphs

26dB Bandwidth

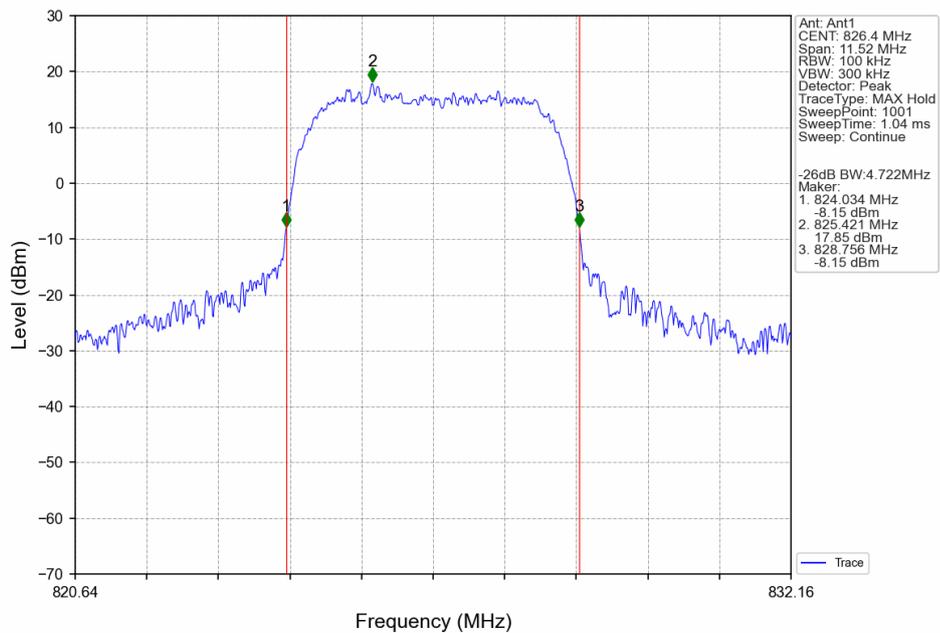




Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV

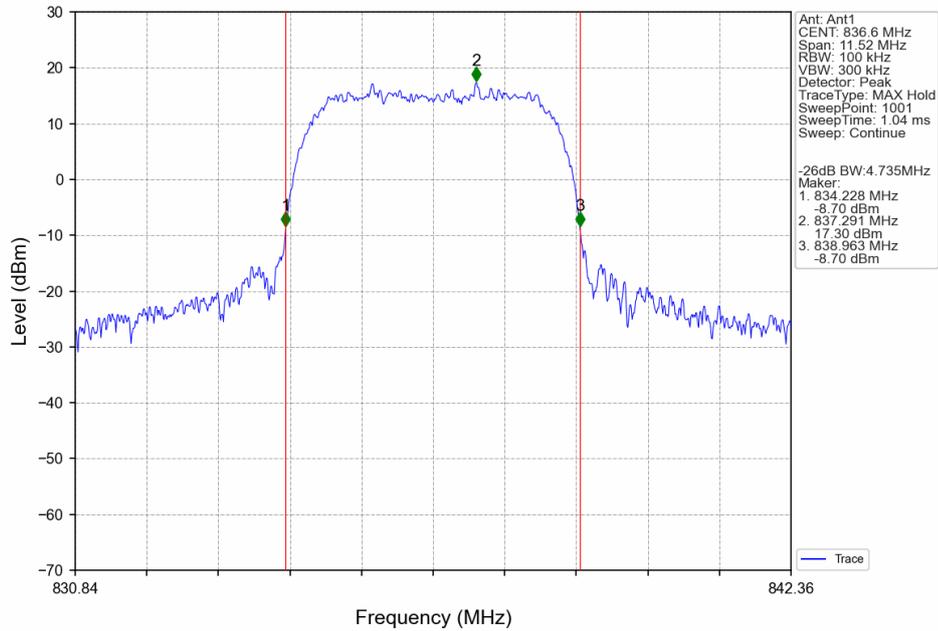


Band5_HSDPA_LCH_826.4MHz_Subtest 1_NTNV

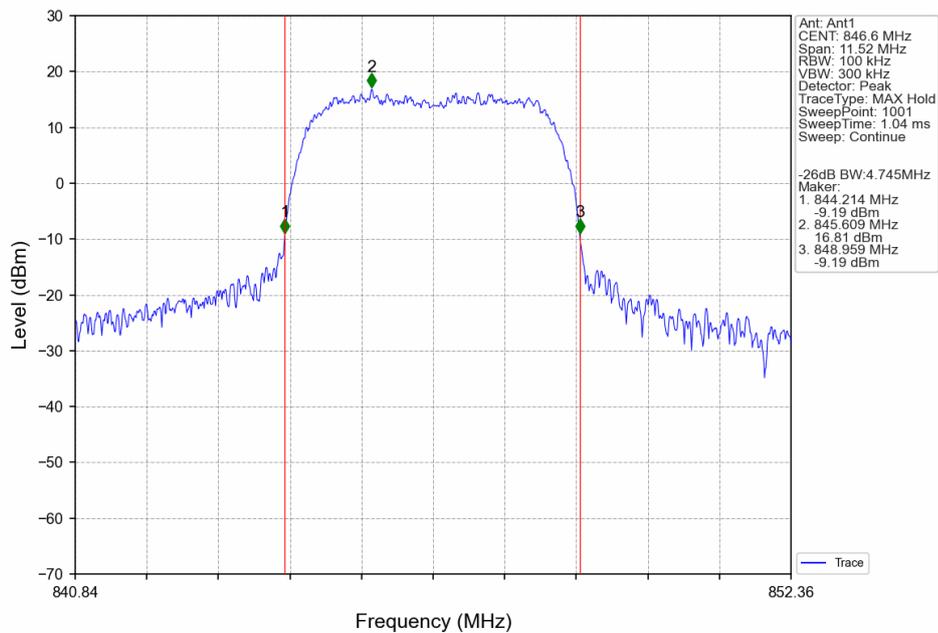




Band5_HSDPA_MCH_836.6MHz_Subtest 1_NTNV



Band5_HSDPA_HCH_846.6MHz_Subtest 1_NTNV

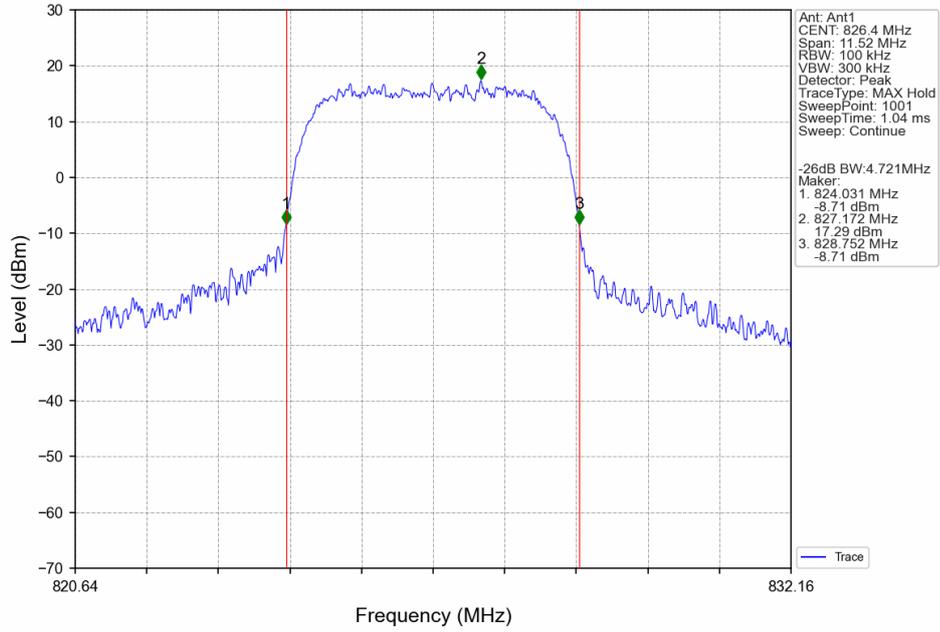




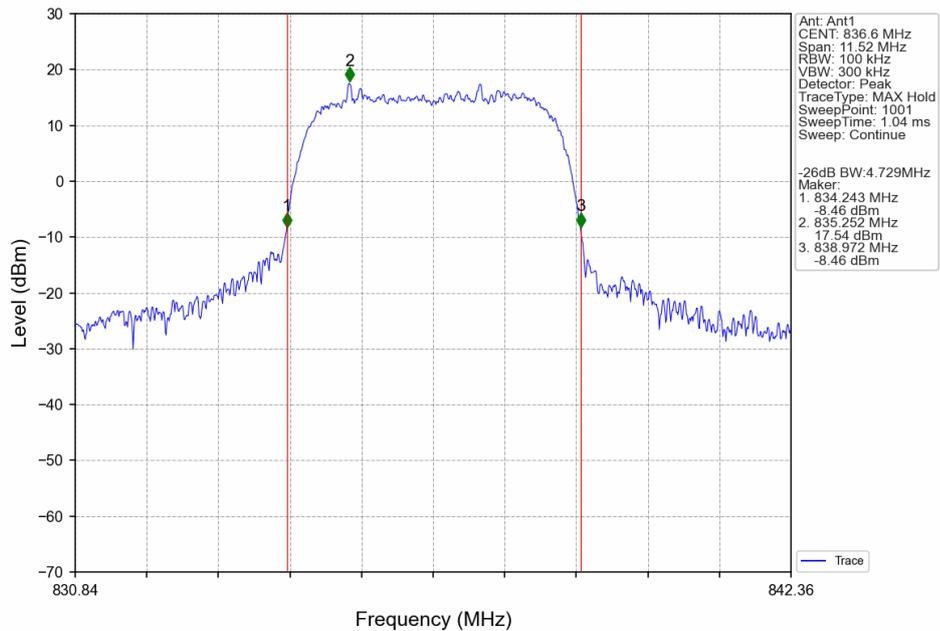
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VERITAS

Test Report No.: PSU-NQN2504150110RF01

Band5_HSUPA_LCH_826.4MHz_Subtest 1_NTNV



Band5_HSUPA_MCH_836.6MHz_Subtest 1_NTNV

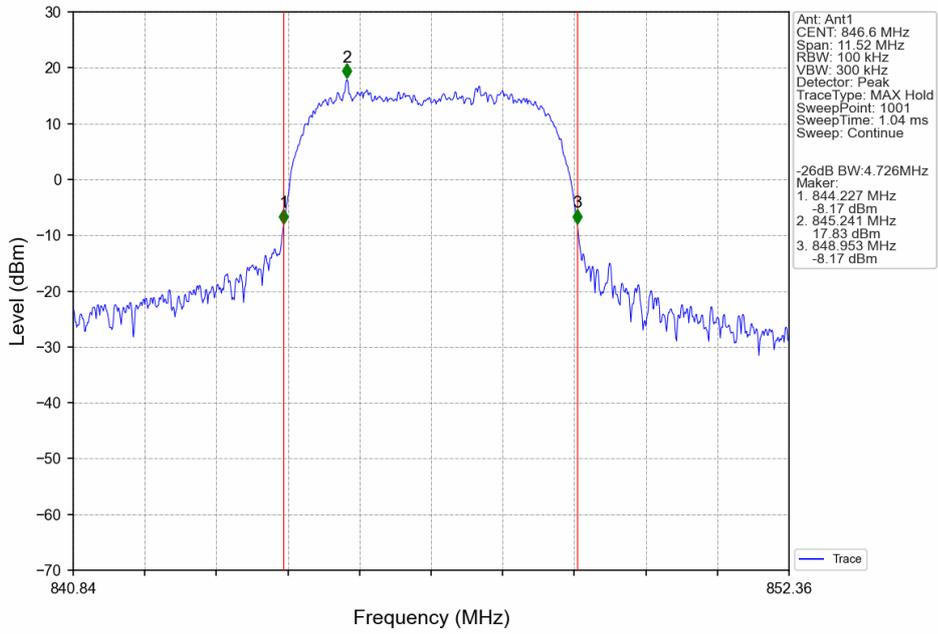




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VERITAS

Test Report No.: PSU-NQN2504150110RF01

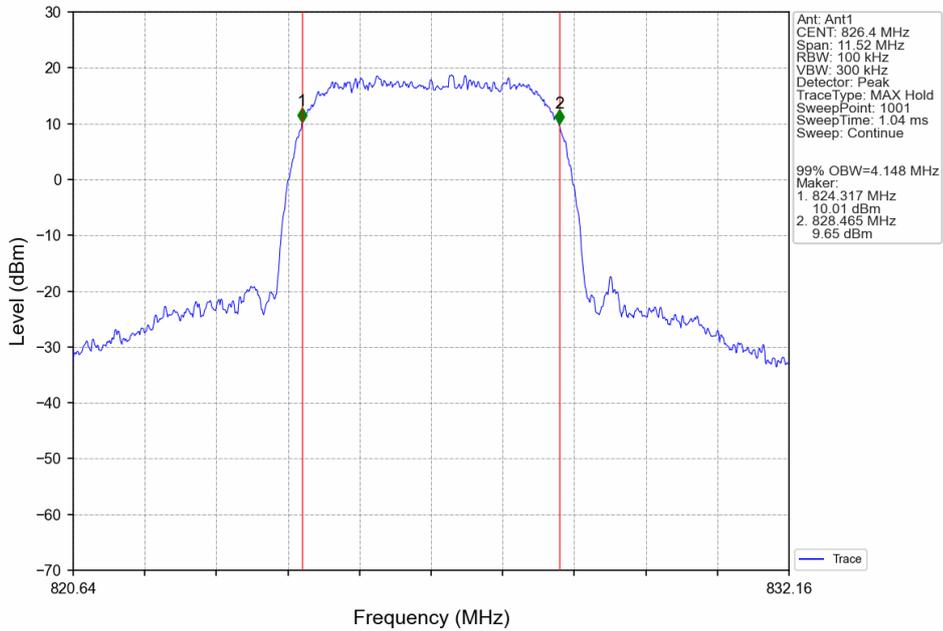
Band5_HSUPA_HCH_846.6MHz_Subtest 1_NTNV



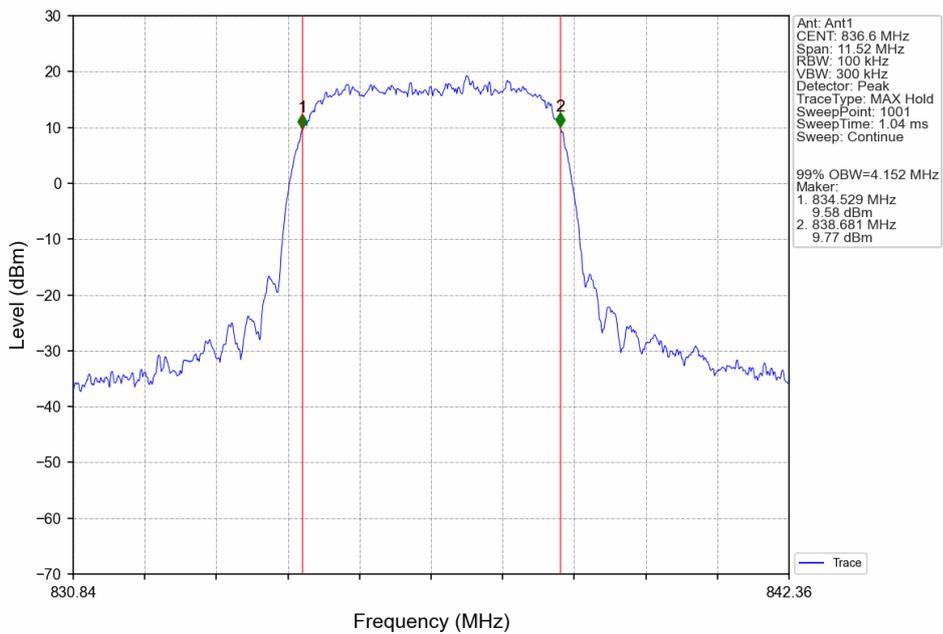


Occupied Bandwidth

Band5_RMC_LCH_826.4MHz_12.2kbps RMC_NTNV



Band5_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV

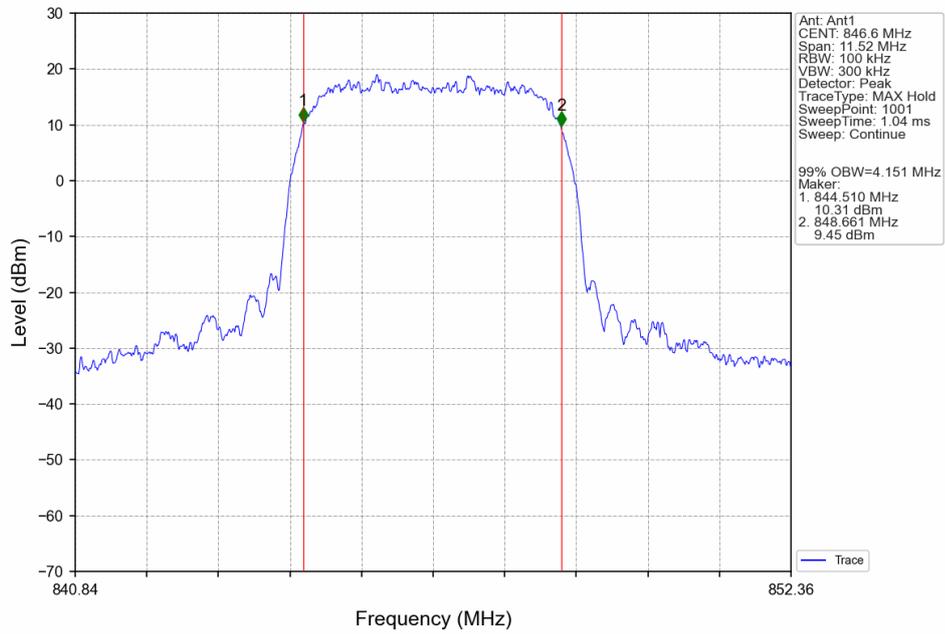




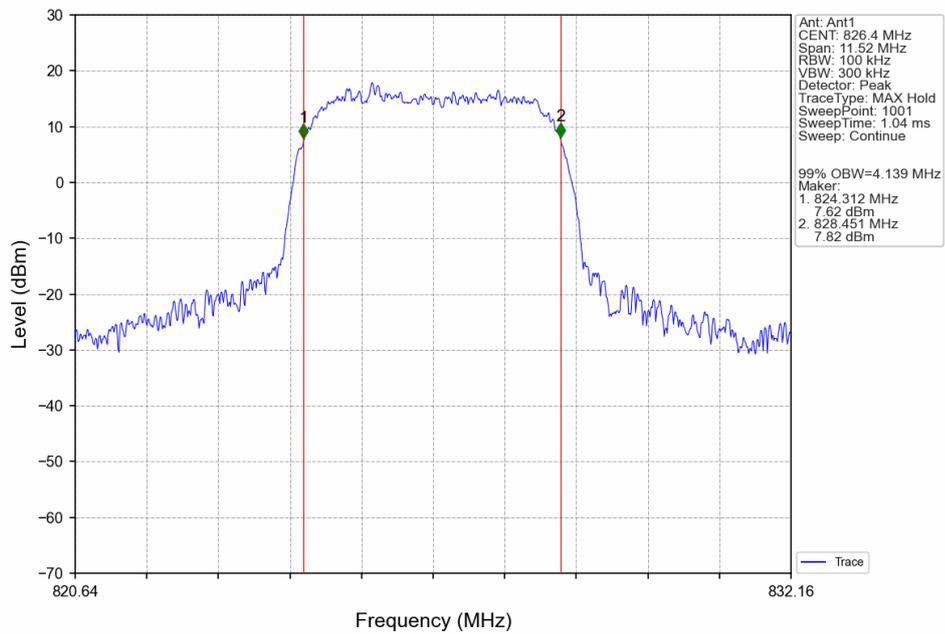
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VERITAS

Test Report No.: PSU-NQN2504150110RF01

Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



Band5_HSDPA_LCH_826.4MHz_Subtest 1_NTNV

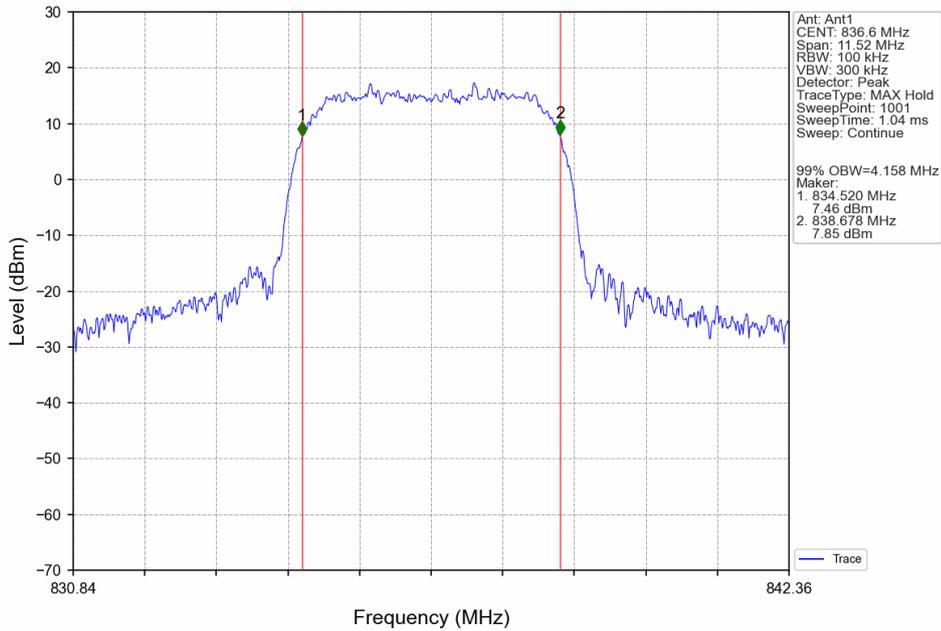




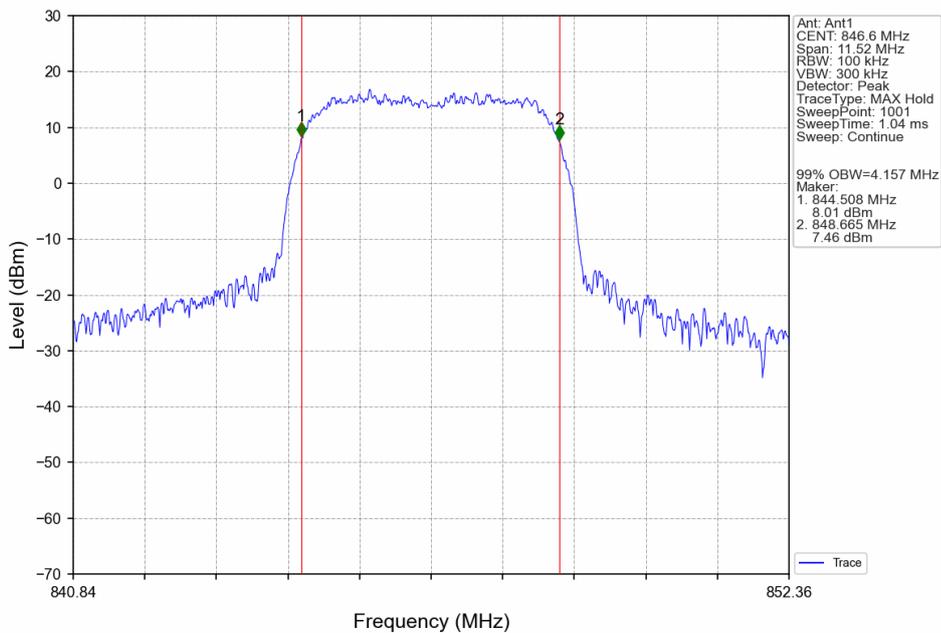
BUREAU
VERITAS

Test Report No.: PSU-NQN2504150110RF01

Band5_HSDPA_MCH_836.6MHz_Subtest 1_NTNV



Band5_HSDPA_HCH_846.6MHz_Subtest 1_NTNV

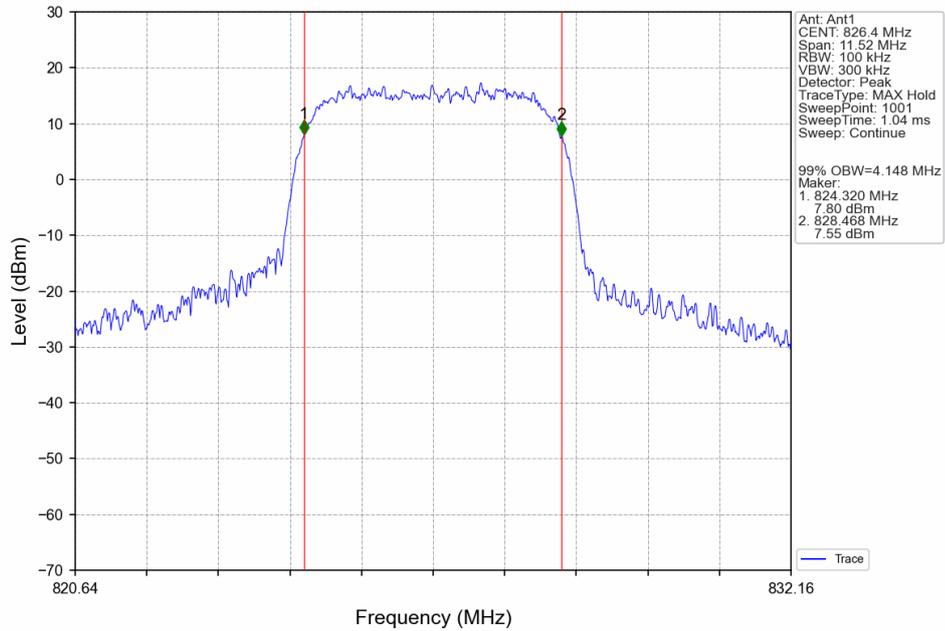




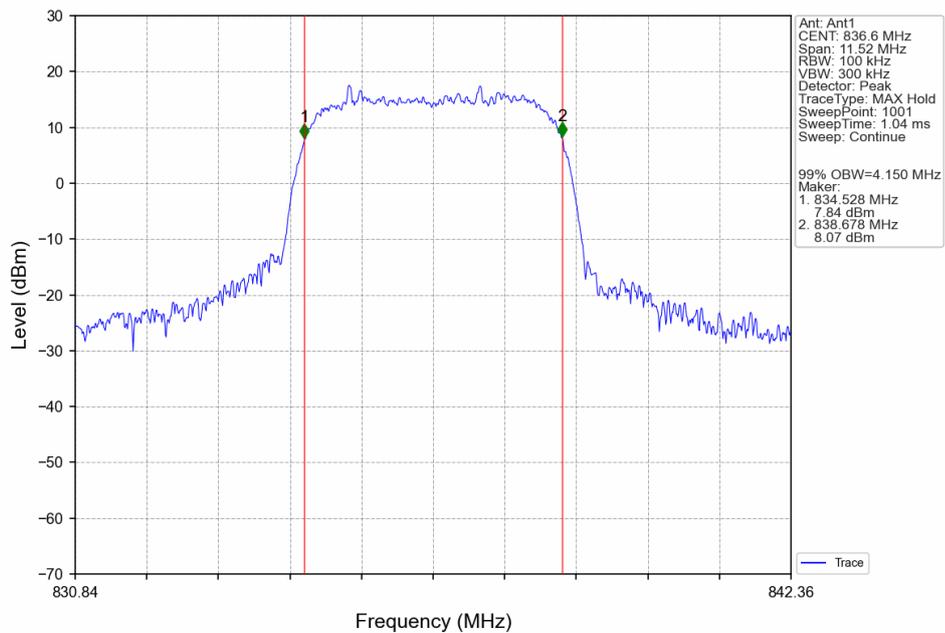
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VERITAS

Test Report No.: PSU-NQN2504150110RF01

Band5_HSUPA_LCH_826.4MHz_Subtest 1_NTNV

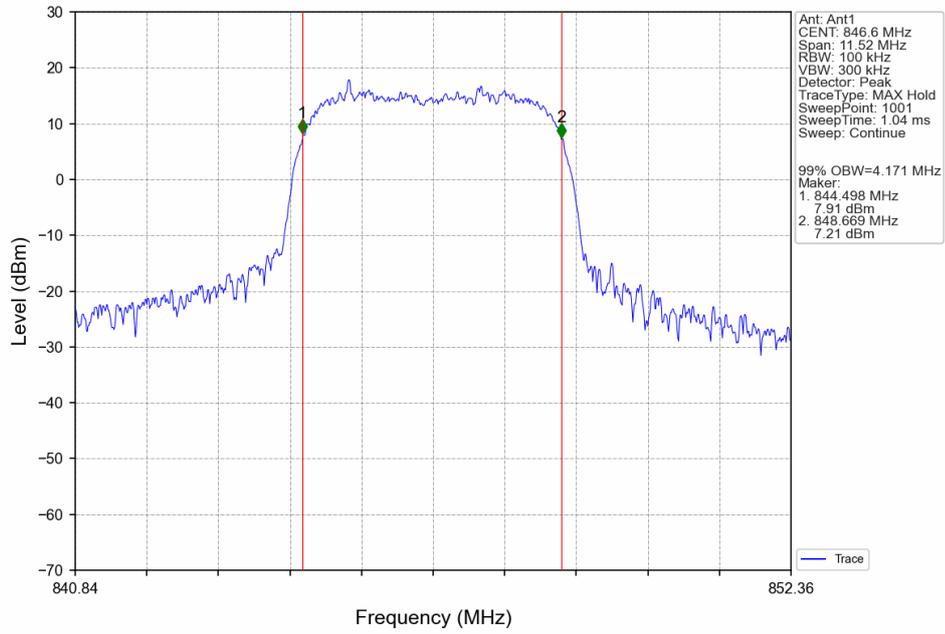


Band5_HSUPA_MCH_836.6MHz_Subtest 1_NTNV





Band5_HSUPA_HCH_846.6MHz_Subtest 1_NTNV





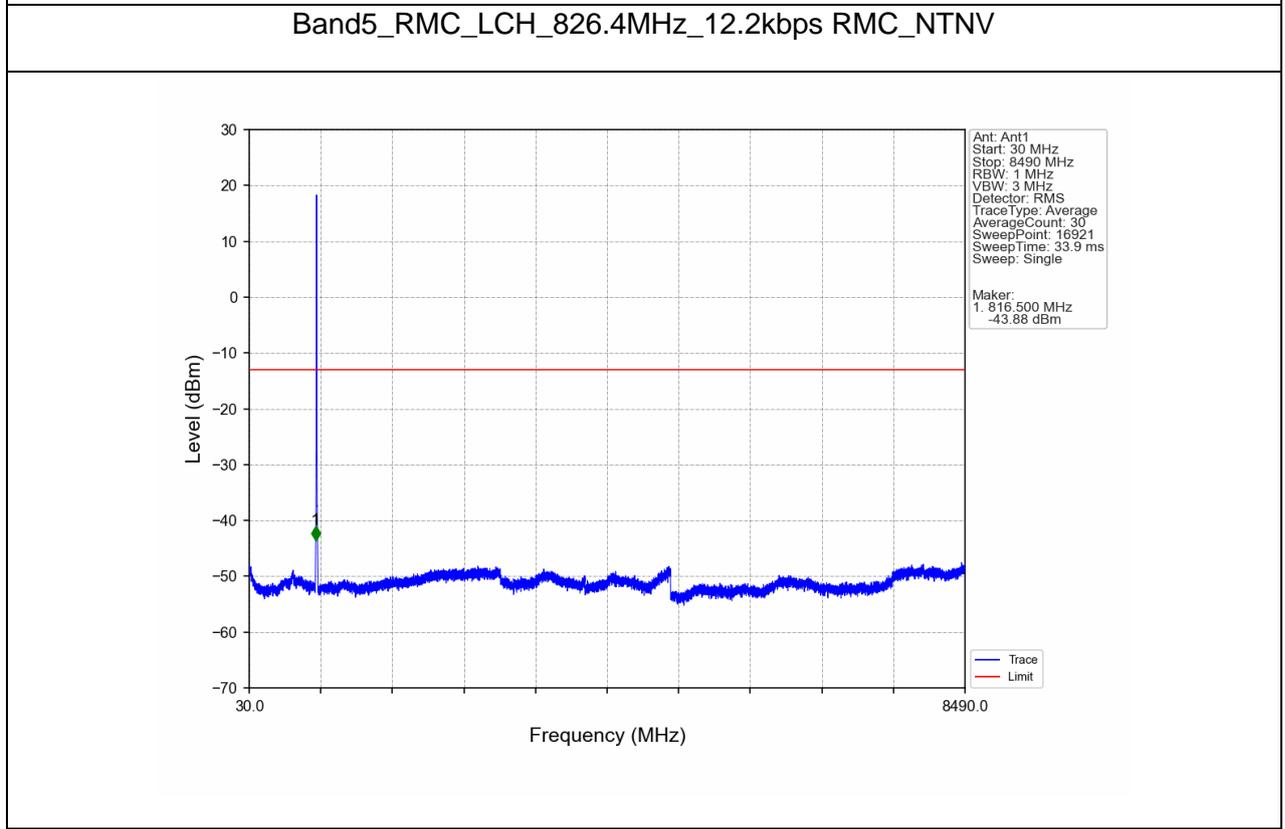
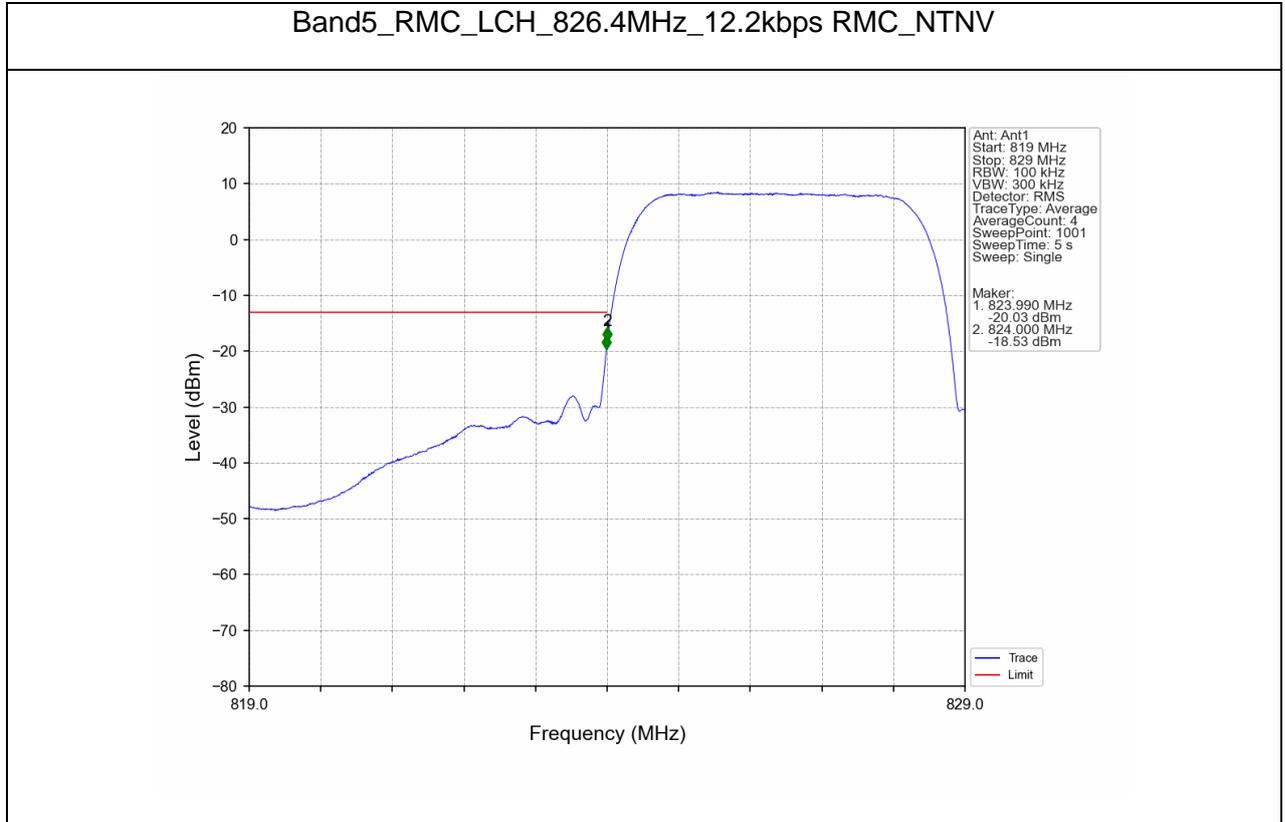
BAND EDGE AND SPURIOUS EMISSION

Test Result

| WCDMA BAND5 | | | | | | |
|-------------|---------|--------------|-----------------|---------------------|-------|---------|
| ENV | Mode | | Frequency (MHz) | Spurious Emission | | Verdict |
| | Network | Subset | | Result | Limit | |
| NTNV | RMC | 12.2kbps RMC | 826.4 | Refer To Test Graph | -13 | Pass |
| | | | 836.6 | Refer To Test Graph | -13 | Pass |
| | | | 846.6 | Refer To Test Graph | -13 | Pass |
| | HSDPA | Subtest 1 | 826.4 | Refer To Test Graph | -13 | Pass |
| | | | 836.6 | Refer To Test Graph | -13 | Pass |
| | | | 846.6 | Refer To Test Graph | -13 | Pass |
| | HSUPA | Subtest 1 | 826.4 | Refer To Test Graph | -13 | Pass |
| | | | 836.6 | Refer To Test Graph | -13 | Pass |
| | | | 846.6 | Refer To Test Graph | -13 | Pass |



Test Graphs

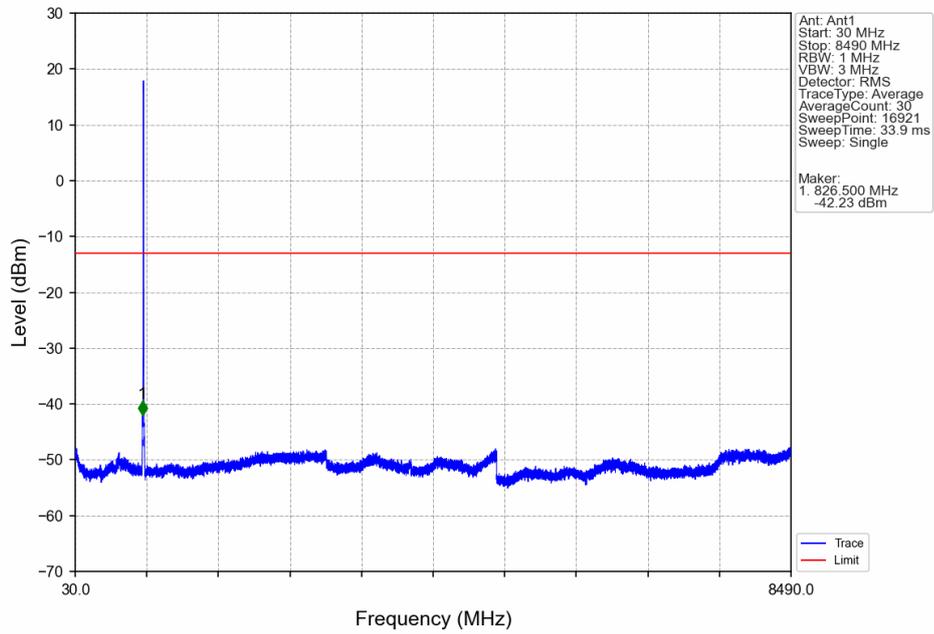




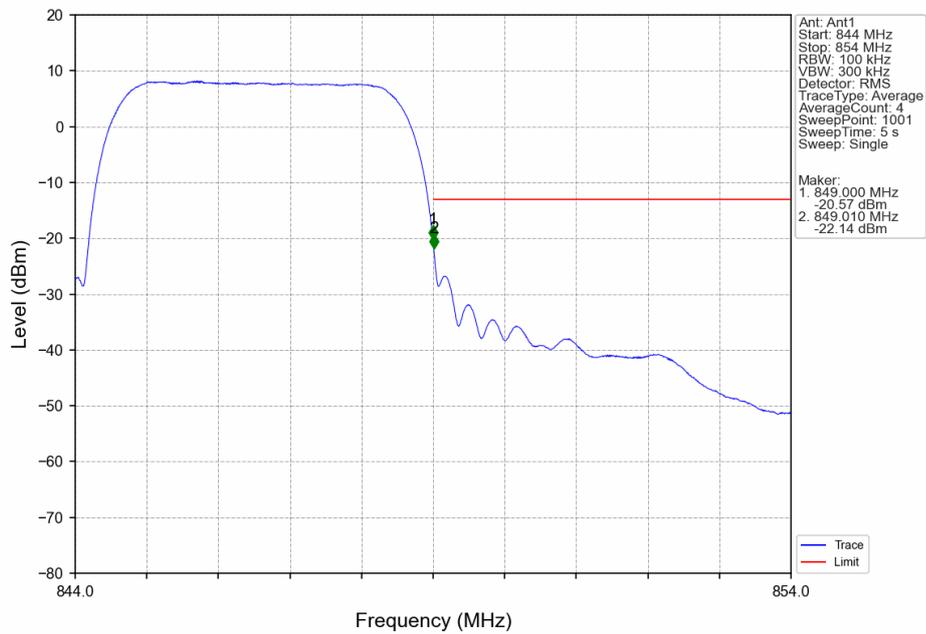
BUREAU
VERITAS

Test Report No.: PSU-NQN2504150110RF01

Band5_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV

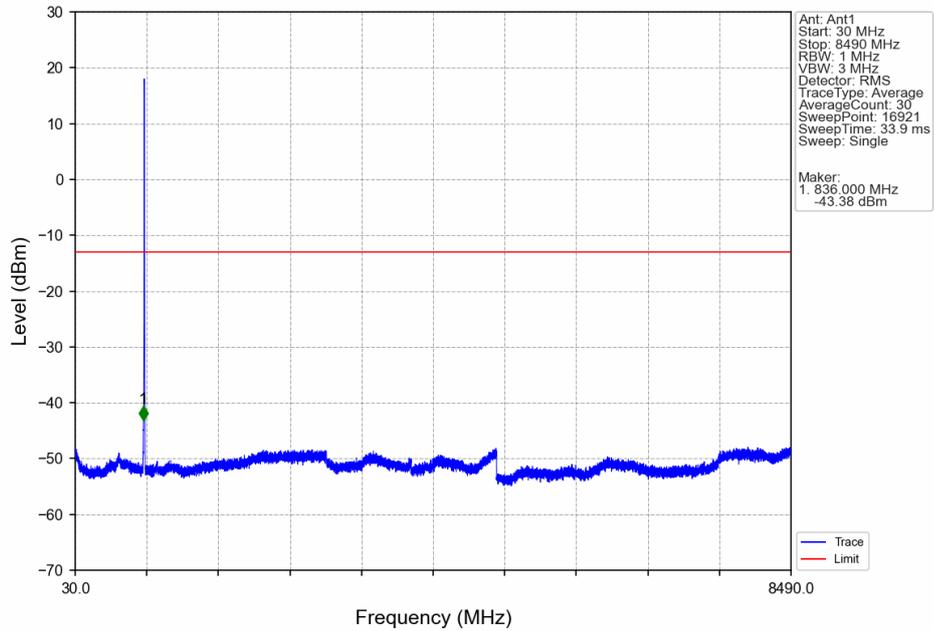




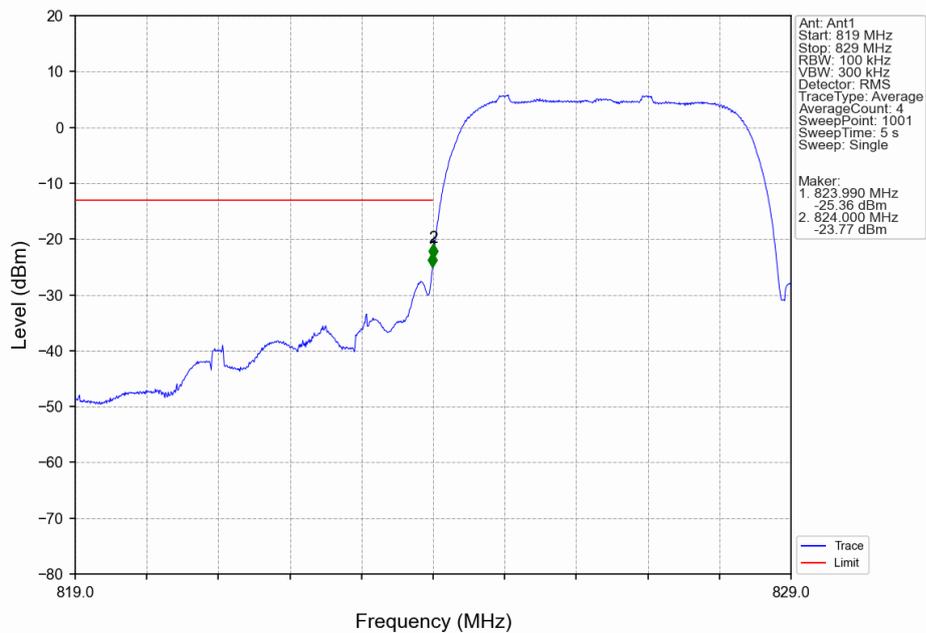
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VERITAS

Test Report No.: PSU-NQN2504150110RF01

Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



Band5_HSDPA_LCH_826.4MHz_Subtest 1_NTNV

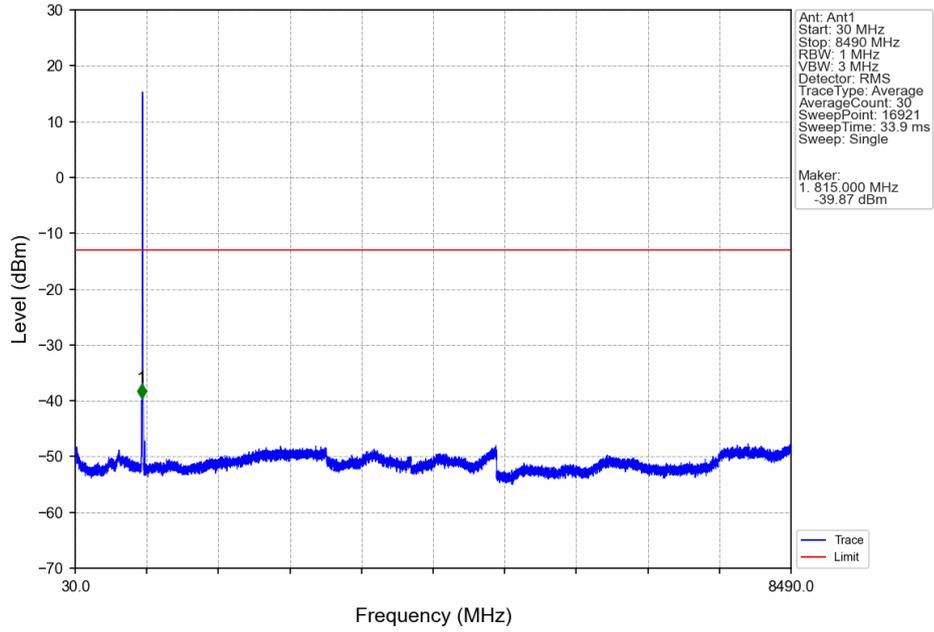




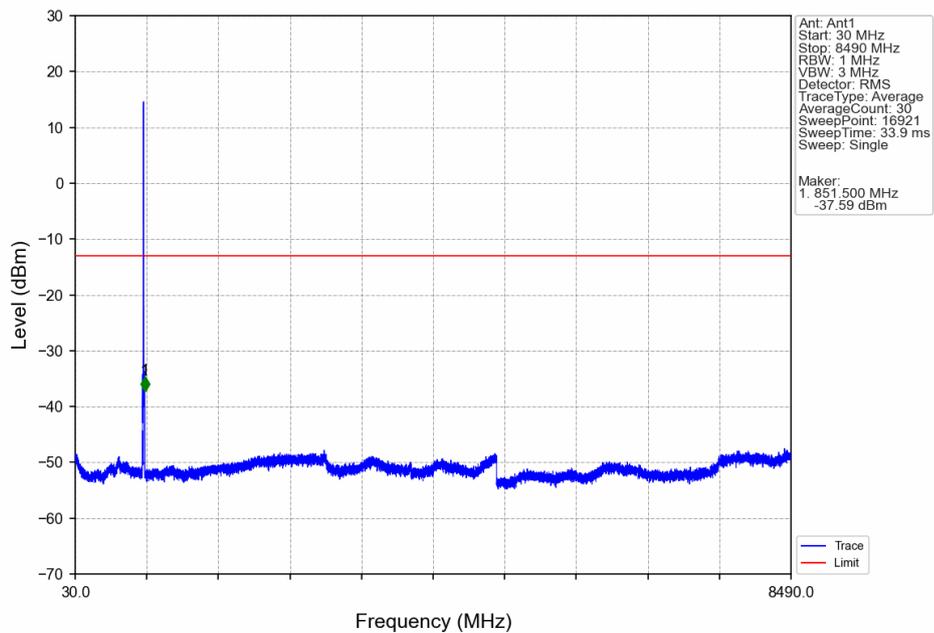
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VERITAS

Test Report No.: PSU-NQN2504150110RF01

Band5_HSDPA_LCH_826.4MHz_Subtest 1_NTNV



Band5_HSDPA_MCH_836.6MHz_Subtest 1_NTNV

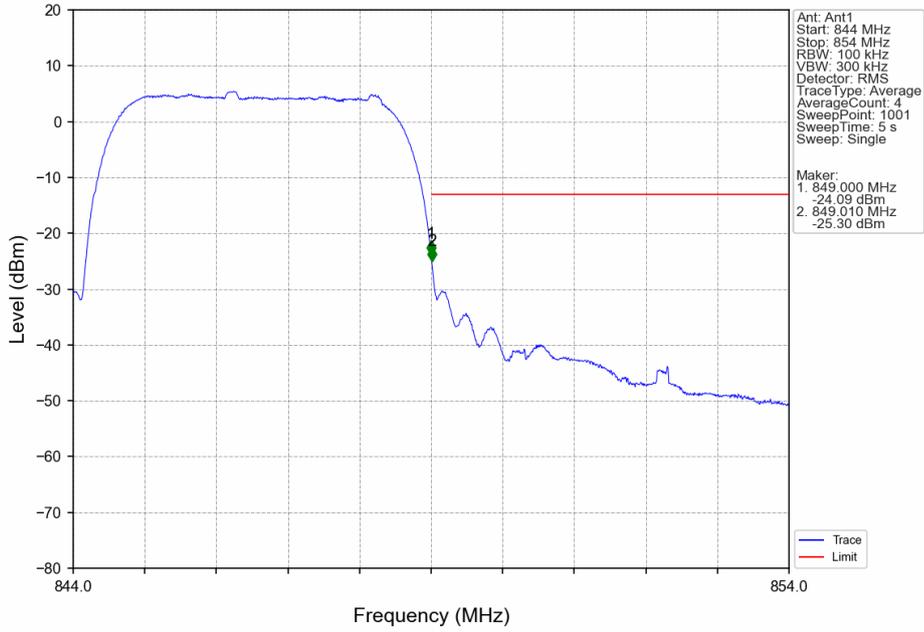




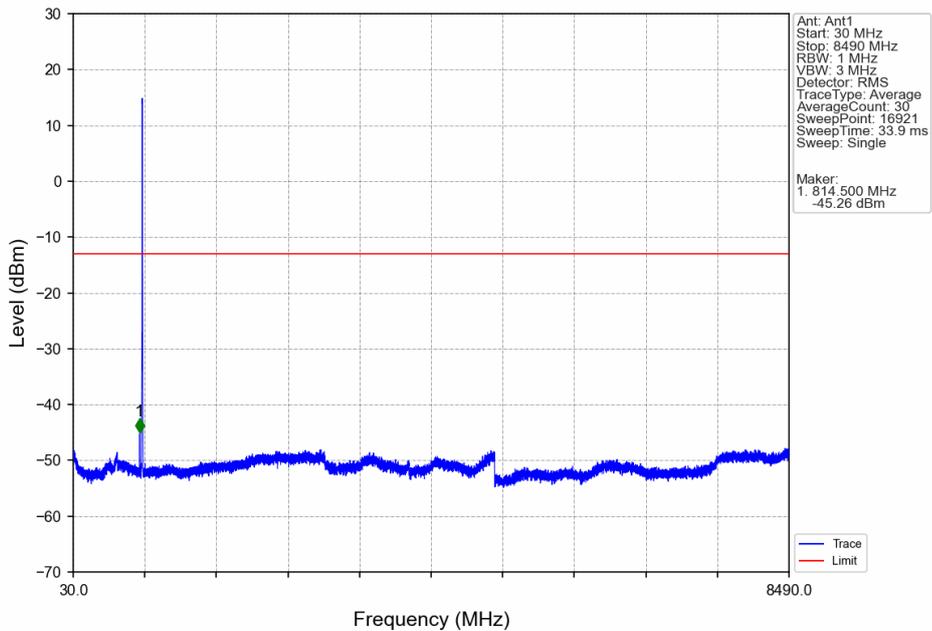
BUREAU
VERITAS

Test Report No.: PSU-NQN2504150110RF01

Band5_HSDPA_HCH_846.6MHz_Subtest 1_NTNV

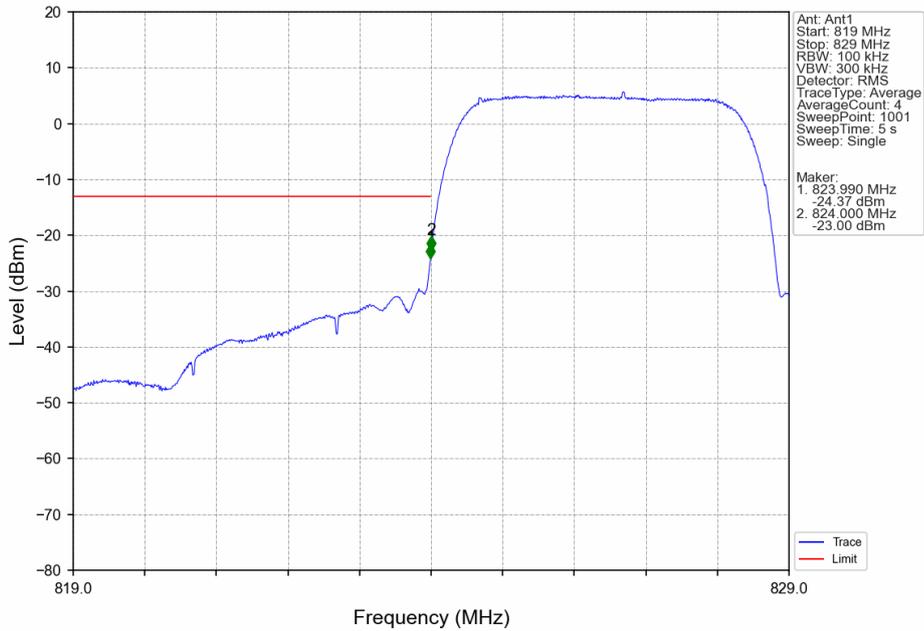


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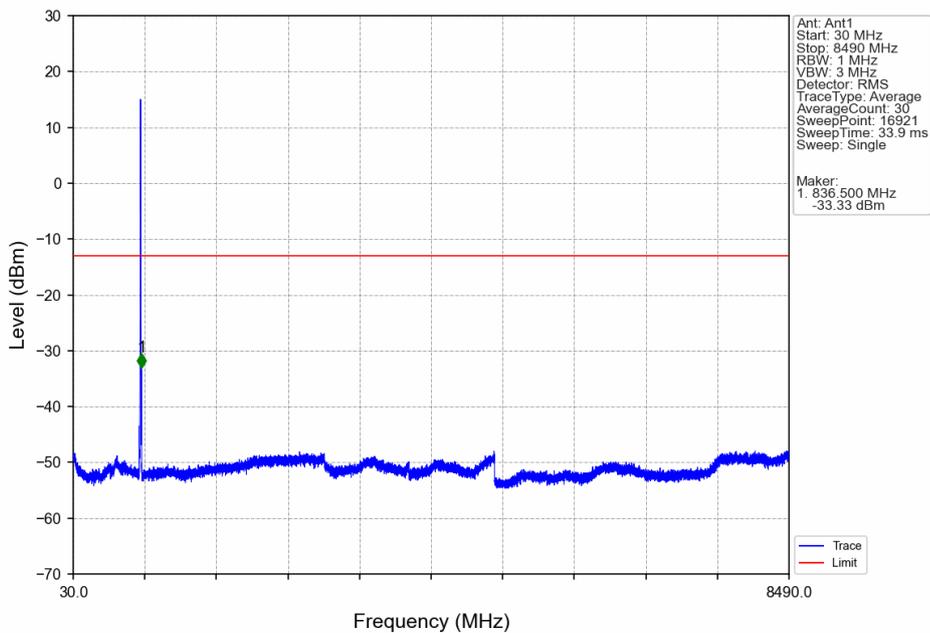




Band5_HSUPA_LCH_826.4MHz_Subtest 1_NTNV



Band5_HSUPA_LCH_826.4MHz_Subtest 1_NTNV

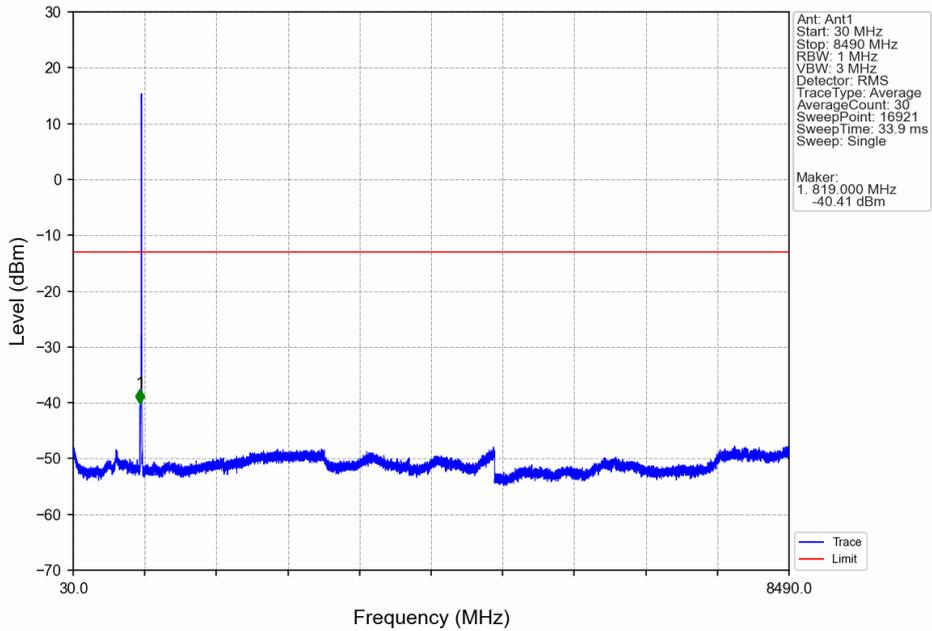




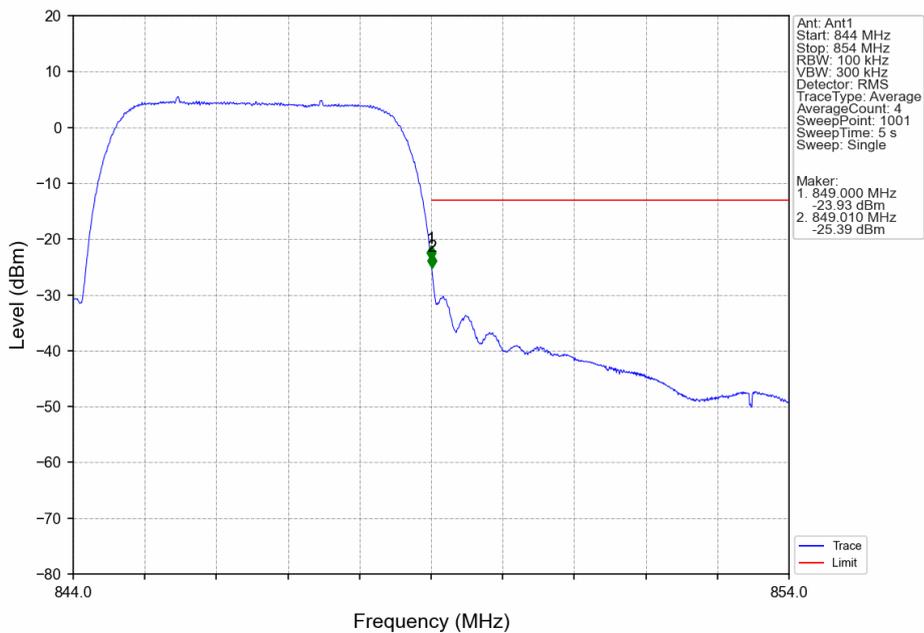
BUREAU
VERITAS

Test Report No.: PSU-NQN2504150110RF01

Band5_HSUPA_MCH_836.6MHz_Subtest 1_NTNV



Band5_HSUPA_HCH_846.6MHz_Subtest 1_NTNV

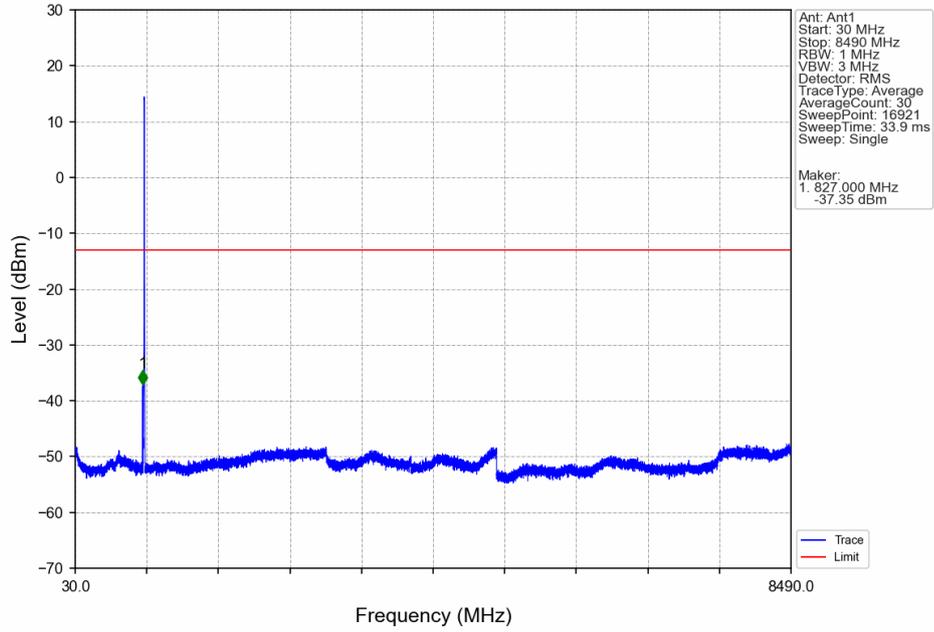




BUREAU
VERITAS

Test Report No.: PSU-NQN2504150110RF01

Band5_HSUPA_HCH_846.6MHz_Subtest 1_NTNV





FREQUENCY STABILITY

Test Result

| WCDMA BAND5 | | | | | | | | |
|-------------|-----------------|------------|---------------|------------------|-----------------------|-------------|-------------|------|
| Network | Frequency (MHz) | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict | |
| | | | | | Result | Limit | | |
| RMC | 826.4 | 20 | 3.4 | 0.708 | 0.0009 | -2.5 to 2.5 | Pass | |
| | | | 4 | 1.273 | 0.0015 | -2.5 to 2.5 | Pass | |
| | | | 4.6 | 1.101 | 0.0013 | -2.5 to 2.5 | Pass | |
| | | 5 | 4 | 0.958 | 0.0012 | -2.5 to 2.5 | Pass | |
| | | 15 | 4 | 0.980 | 0.0012 | -2.5 to 2.5 | Pass | |
| | | 35 | 4 | 1.173 | 0.0014 | -2.5 to 2.5 | Pass | |
| | 836.6 | 20 | 3.4 | 0.329 | 0.0004 | -2.5 to 2.5 | Pass | |
| | | | 4 | -0.222 | -0.0003 | -2.5 to 2.5 | Pass | |
| | | | 4.6 | 0.057 | 0.0001 | -2.5 to 2.5 | Pass | |
| | | 5 | 4 | 0.157 | 0.0002 | -2.5 to 2.5 | Pass | |
| | | 15 | 4 | 0.129 | 0.0002 | -2.5 to 2.5 | Pass | |
| | | 35 | 4 | 0.215 | 0.0003 | -2.5 to 2.5 | Pass | |
| | 846.6 | 20 | 3.4 | -1.724 | -0.0020 | -2.5 to 2.5 | Pass | |
| | | | 4 | -1.888 | -0.0022 | -2.5 to 2.5 | Pass | |
| | | | 4.6 | -2.160 | -0.0026 | -2.5 to 2.5 | Pass | |
| | | 5 | 4 | -1.910 | -0.0023 | -2.5 to 2.5 | Pass | |
| | | 15 | 4 | -1.938 | -0.0023 | -2.5 to 2.5 | Pass | |
| | | 35 | 4 | -2.031 | -0.0024 | -2.5 to 2.5 | Pass | |
| | HSDPA | 826.4 | 20 | 3.4 | 0.637 | 0.0008 | -2.5 to 2.5 | Pass |
| | | | | 4 | 0.501 | 0.0006 | -2.5 to 2.5 | Pass |
| | | | | 4.6 | 0.637 | 0.0008 | -2.5 to 2.5 | Pass |
| | | | 5 | 4 | 0.551 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | 15 | 4 | 1.023 | 0.0012 | -2.5 to 2.5 | Pass |
| | | | 35 | 4 | -0.551 | -0.0007 | -2.5 to 2.5 | Pass |
| 836.6 | | 20 | 3.4 | -1.631 | -0.0019 | -2.5 to 2.5 | Pass | |
| | | | 4 | -1.237 | -0.0015 | -2.5 to 2.5 | Pass | |
| | | | 4.6 | -1.073 | -0.0013 | -2.5 to 2.5 | Pass | |
| | | 5 | 4 | -1.094 | -0.0013 | -2.5 to 2.5 | Pass | |
| | | 15 | 4 | -1.094 | -0.0013 | -2.5 to 2.5 | Pass | |
| | | 35 | 4 | -1.152 | -0.0014 | -2.5 to 2.5 | Pass | |
| 846.6 | | 20 | 3.4 | -3.140 | -0.0037 | -2.5 to 2.5 | Pass | |
| | | | 4 | -2.911 | -0.0034 | -2.5 to 2.5 | Pass | |
| | | | 4.6 | -3.068 | -0.0036 | -2.5 to 2.5 | Pass | |
| | | 5 | 4 | -2.925 | -0.0035 | -2.5 to 2.5 | Pass | |
| | | 15 | 4 | -3.169 | -0.0037 | -2.5 to 2.5 | Pass | |
| | | 35 | 4 | -3.169 | -0.0037 | -2.5 to 2.5 | Pass | |
| HSUPA | | 826.4 | 20 | 3.4 | 0.923 | 0.0011 | -2.5 to 2.5 | Pass |
| | | | | 4 | 1.123 | 0.0014 | -2.5 to 2.5 | Pass |
| | | | | 4.6 | 1.695 | 0.0021 | -2.5 to 2.5 | Pass |
| | | | 5 | 4 | 1.302 | 0.0016 | -2.5 to 2.5 | Pass |
| | | | 15 | 4 | 1.345 | 0.0016 | -2.5 to 2.5 | Pass |
| | | | 35 | 4 | 1.009 | 0.0012 | -2.5 to 2.5 | Pass |
| | 836.6 | 20 | 3.4 | 2.747 | 0.0033 | -2.5 to 2.5 | Pass | |
| | | | 4 | 2.875 | 0.0034 | -2.5 to 2.5 | Pass | |
| | | | 4.6 | 1.717 | 0.0021 | -2.5 to 2.5 | Pass | |
| | | 5 | 4 | 1.137 | 0.0014 | -2.5 to 2.5 | Pass | |



BUREAU
VERITAS

Test Report No.: PSU-NQN2504150110RF01

| | | | | | | | |
|--|-------|----|-----|--------|---------|-------------|------|
| | | 15 | 4 | 2.346 | 0.0028 | -2.5 to 2.5 | Pass |
| | | 25 | 4 | 3.018 | 0.0036 | -2.5 to 2.5 | Pass |
| | | 35 | 4 | 1.302 | 0.0016 | -2.5 to 2.5 | Pass |
| | 846.6 | 20 | 3.4 | -0.365 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | 4 | -0.801 | -0.0009 | -2.5 to 2.5 | Pass |
| | | | 4.6 | -0.479 | -0.0006 | -2.5 to 2.5 | Pass |
| | | 5 | 4 | 0.222 | 0.0003 | -2.5 to 2.5 | Pass |
| | | 15 | 4 | -0.486 | -0.0006 | -2.5 to 2.5 | Pass |
| | | 25 | 4 | -0.694 | -0.0008 | -2.5 to 2.5 | Pass |
| | | 35 | 4 | -0.837 | -0.0010 | -2.5 to 2.5 | Pass |



LTE BAND5

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

| Band: 5 / Bandwidth: 1.4MHz / NTN | | | | | | |
|-----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 824.7 | 6 | 0 | 4.50 | <=13 | Pass |
| | 836.5 | 6 | 0 | 4.88 | <=13 | Pass |
| | 848.3 | 6 | 0 | 4.86 | <=13 | Pass |
| 16QAM | 824.7 | 6 | 0 | 5.80 | <=13 | Pass |
| | 836.5 | 6 | 0 | 6.28 | <=13 | Pass |
| | 848.3 | 6 | 0 | 6.20 | <=13 | Pass |
| 64QAM | 824.7 | 6 | 0 | 5.78 | <=13 | Pass |
| | 836.5 | 6 | 0 | 6.28 | <=13 | Pass |
| | 848.3 | 6 | 0 | 6.20 | <=13 | Pass |

| Band: 5 / Bandwidth: 3MHz / NTN | | | | | | |
|---------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 825.5 | 15 | 0 | 4.50 | <=13 | Pass |
| | 836.5 | 15 | 0 | 4.84 | <=13 | Pass |
| | 847.5 | 15 | 0 | 4.82 | <=13 | Pass |
| 16QAM | 825.5 | 15 | 0 | 5.86 | <=13 | Pass |
| | 836.5 | 15 | 0 | 6.30 | <=13 | Pass |
| | 847.5 | 15 | 0 | 6.20 | <=13 | Pass |
| 64QAM | 825.5 | 15 | 0 | 5.82 | <=13 | Pass |
| | 836.5 | 15 | 0 | 6.30 | <=13 | Pass |
| | 847.5 | 15 | 0 | 6.20 | <=13 | Pass |

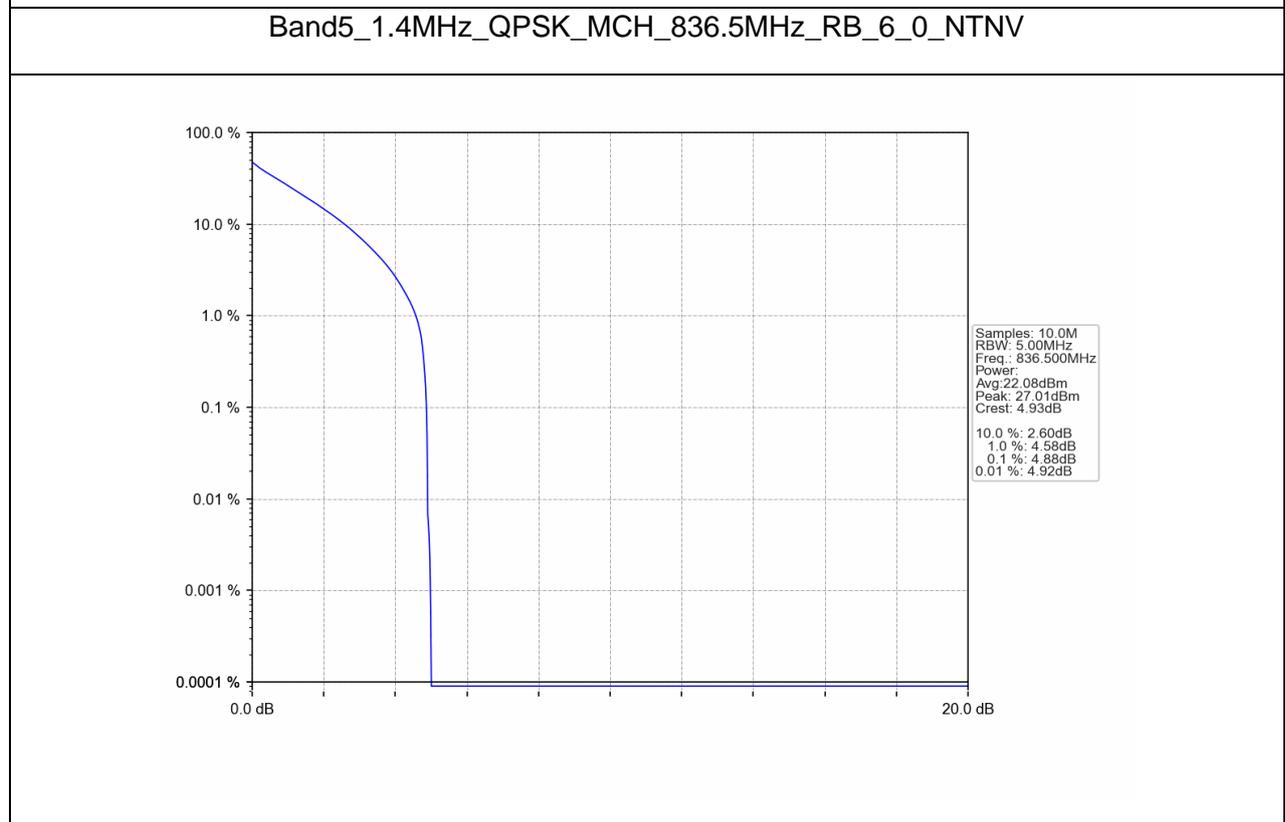
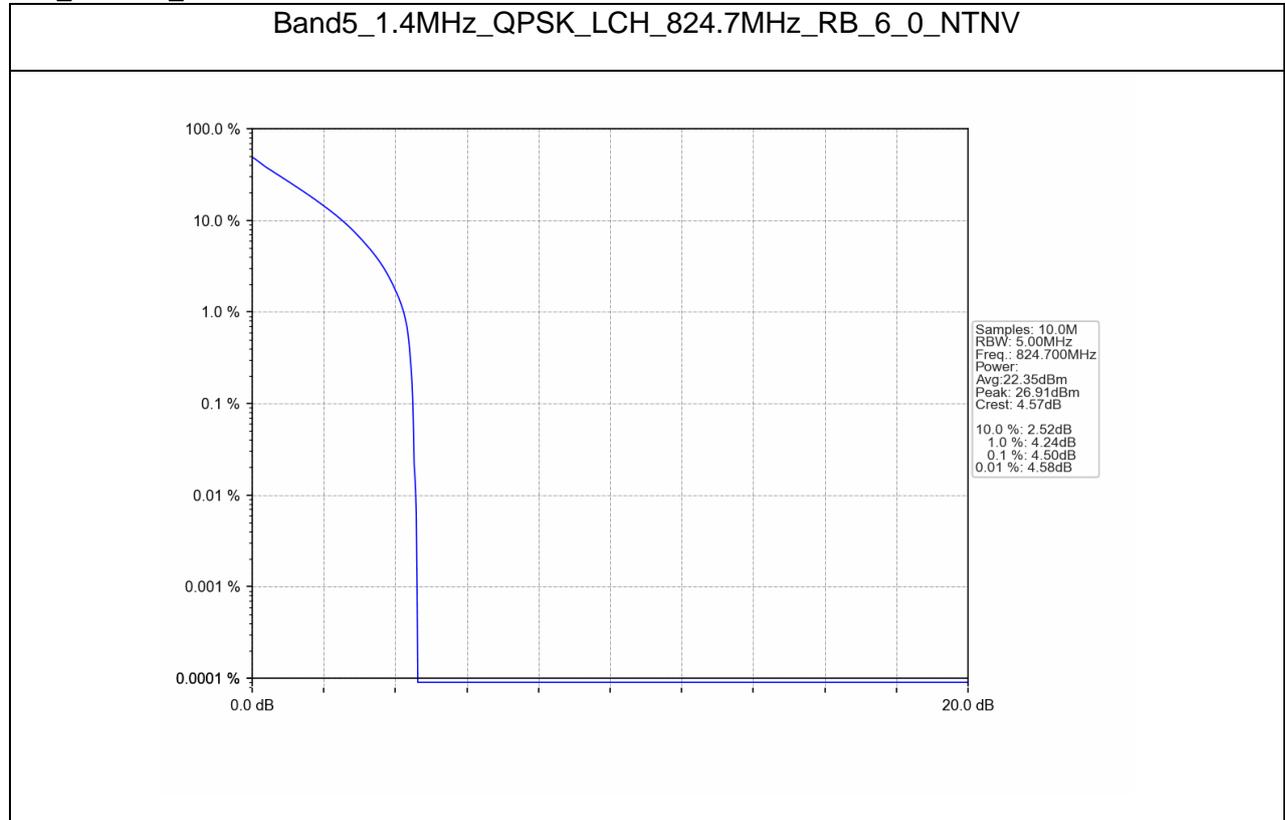
| Band: 5 / Bandwidth: 5MHz / NTN | | | | | | |
|---------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 826.5 | 25 | 0 | 4.74 | <=13 | Pass |
| | 836.5 | 25 | 0 | 5.06 | <=13 | Pass |
| | 846.5 | 25 | 0 | 4.96 | <=13 | Pass |
| 16QAM | 826.5 | 25 | 0 | 5.80 | <=13 | Pass |
| | 836.5 | 25 | 0 | 6.10 | <=13 | Pass |
| | 846.5 | 25 | 0 | 5.98 | <=13 | Pass |
| 64QAM | 826.5 | 25 | 0 | 5.82 | <=13 | Pass |
| | 836.5 | 25 | 0 | 6.12 | <=13 | Pass |
| | 846.5 | 25 | 0 | 5.98 | <=13 | Pass |

| Band: 5 / Bandwidth: 10MHz / NTN | | | | | | |
|----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 829 | 50 | 0 | 5.00 | <=13 | Pass |
| | 836.5 | 50 | 0 | 5.02 | <=13 | Pass |
| | 844 | 50 | 0 | 4.84 | <=13 | Pass |
| 16QAM | 829 | 50 | 0 | 5.90 | <=13 | Pass |
| | 836.5 | 50 | 0 | 6.08 | <=13 | Pass |
| | 844 | 50 | 0 | 5.86 | <=13 | Pass |
| 64QAM | 829 | 50 | 0 | 5.88 | <=13 | Pass |
| | 836.5 | 50 | 0 | 6.10 | <=13 | Pass |
| | 844 | 50 | 0 | 5.86 | <=13 | Pass |



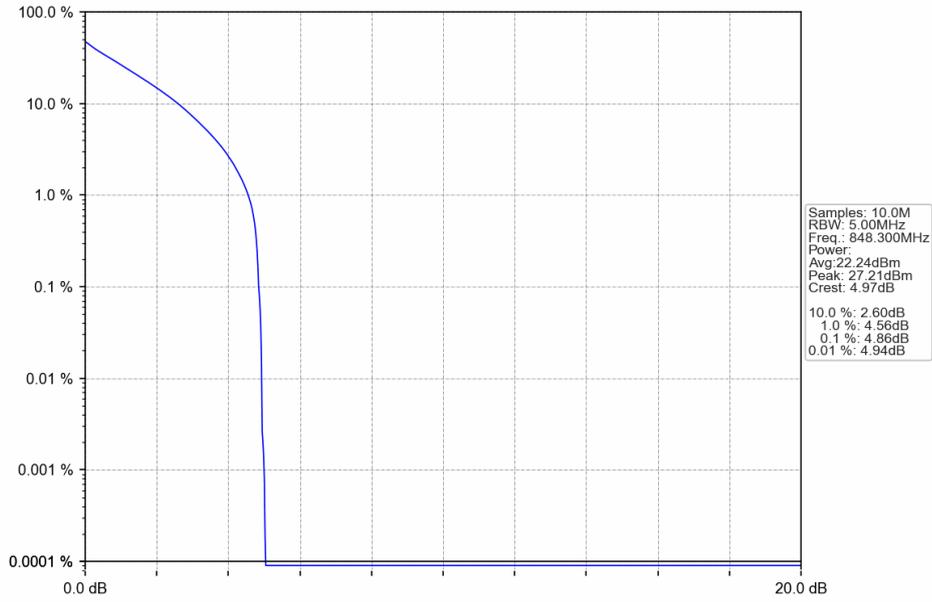
Test Graphs

LTE_BAND 5_1.4MHz

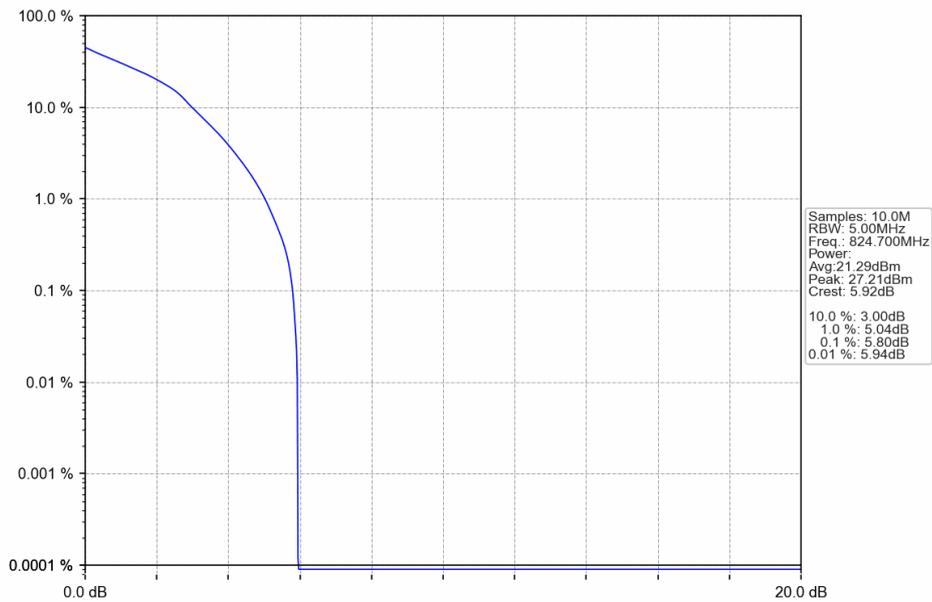




Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV

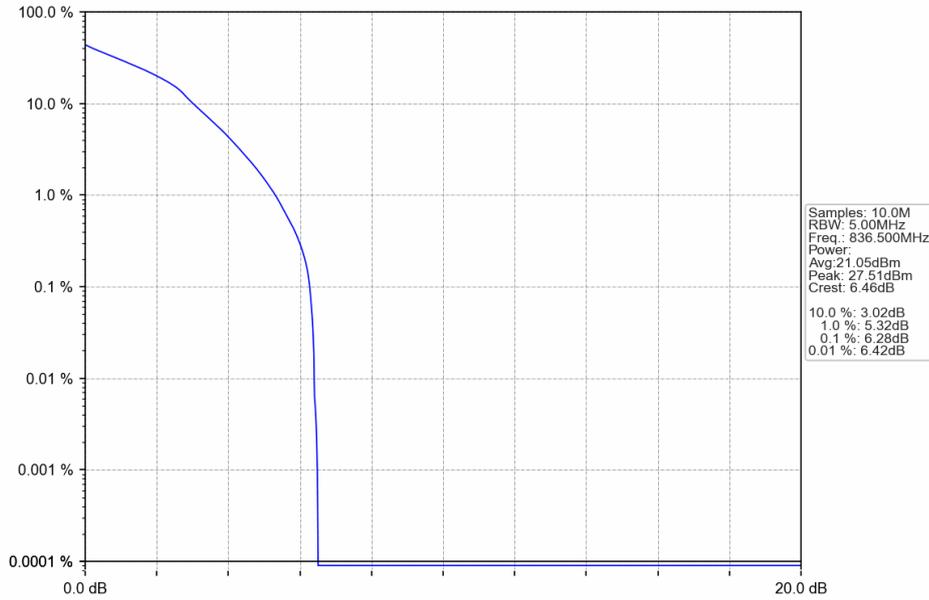


Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV

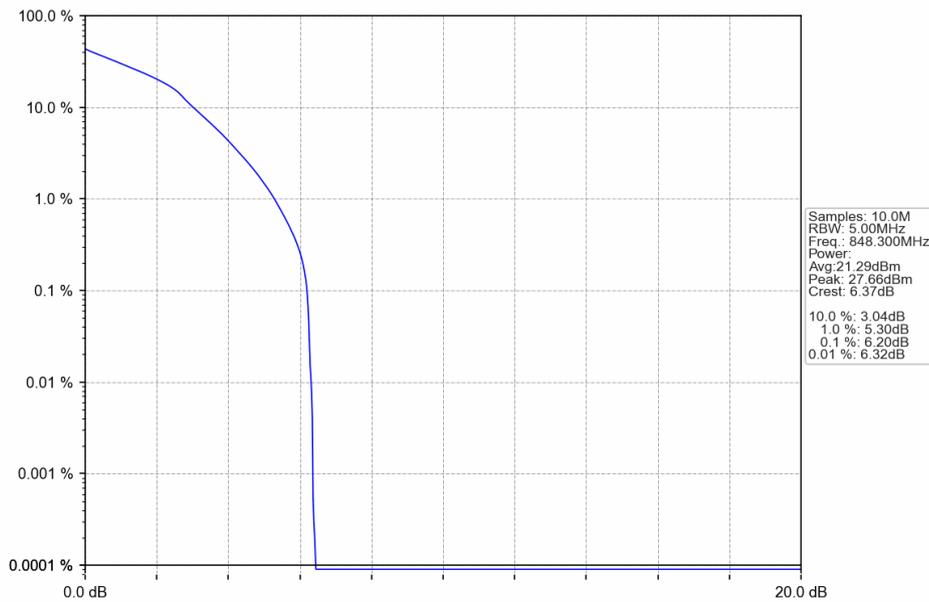




Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV

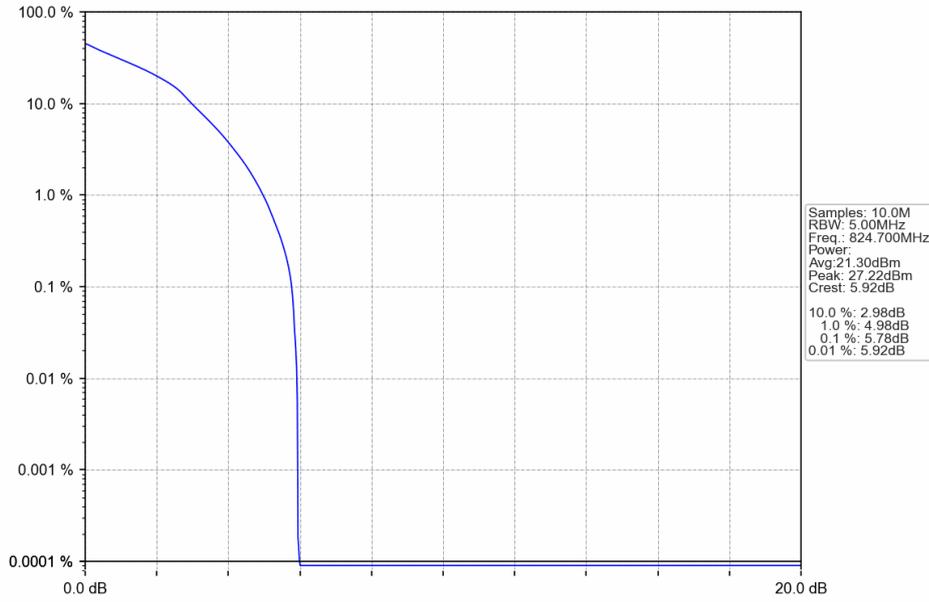


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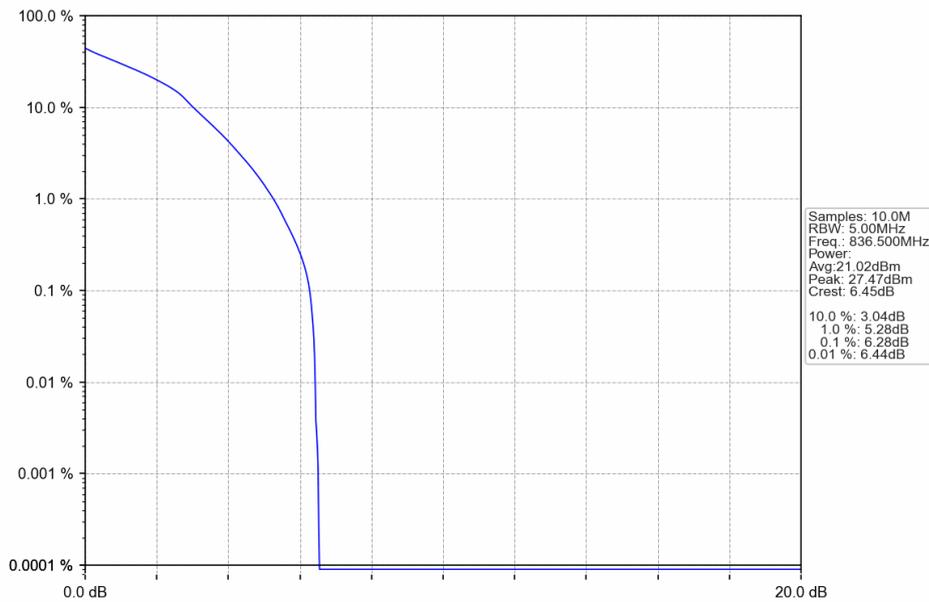




Band5_1.4MHz_64QAM_LCH_824.7MHz_RB_6_0_NTNV

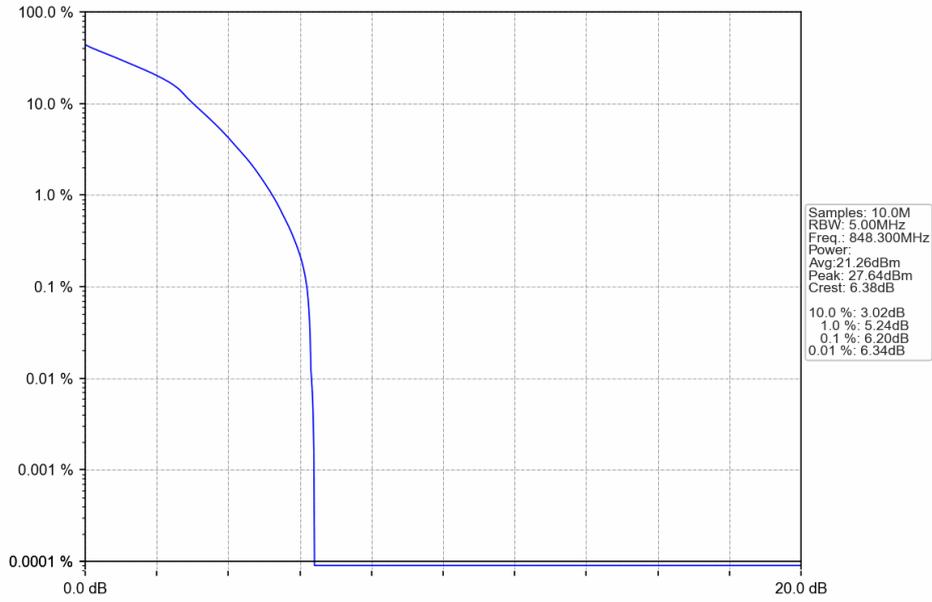


Band5_1.4MHz_64QAM_MCH_836.5MHz_RB_6_0_NTNV



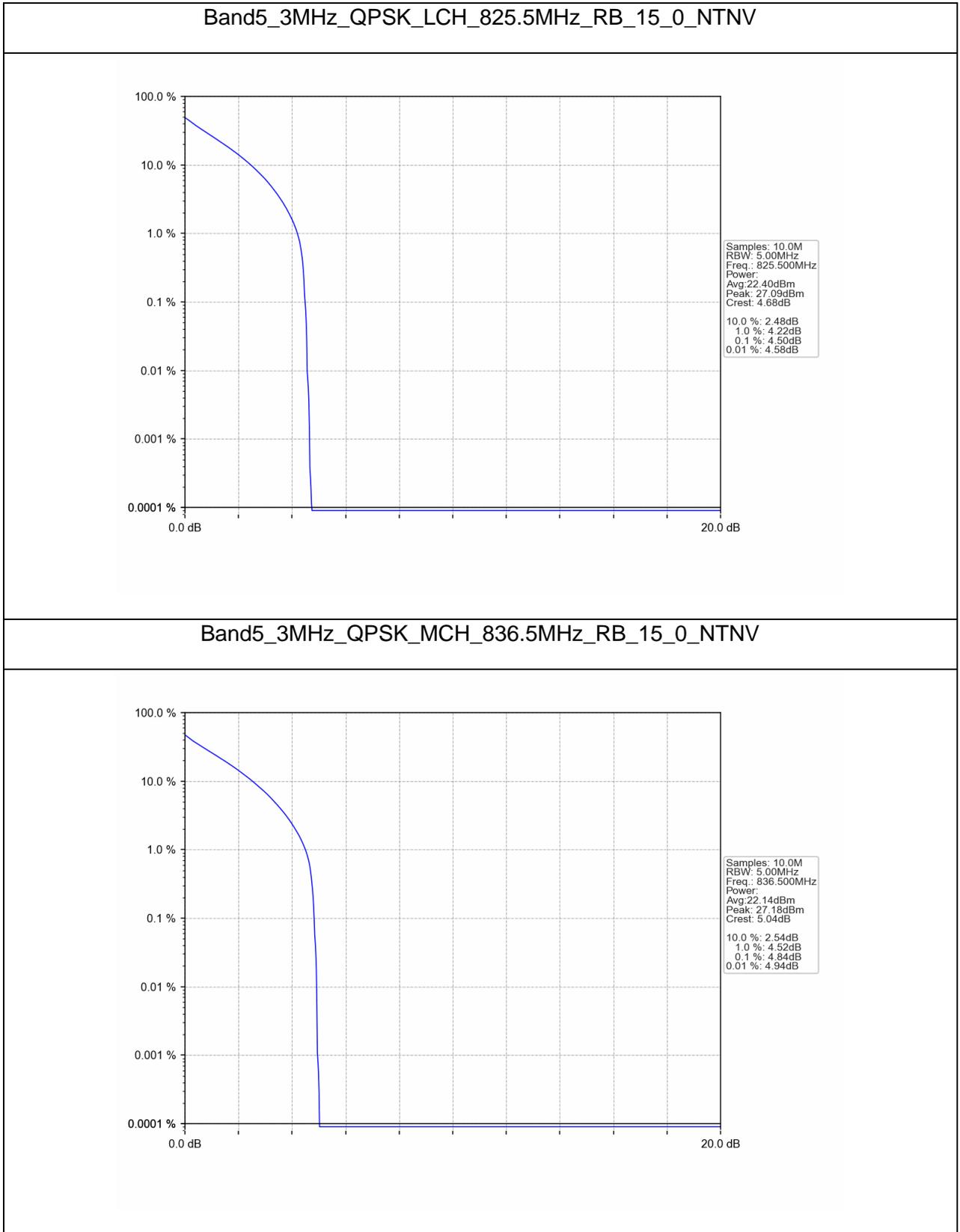


Band5_1.4MHz_64QAM_HCH_848.3MHz_RB_6_0_NTNV



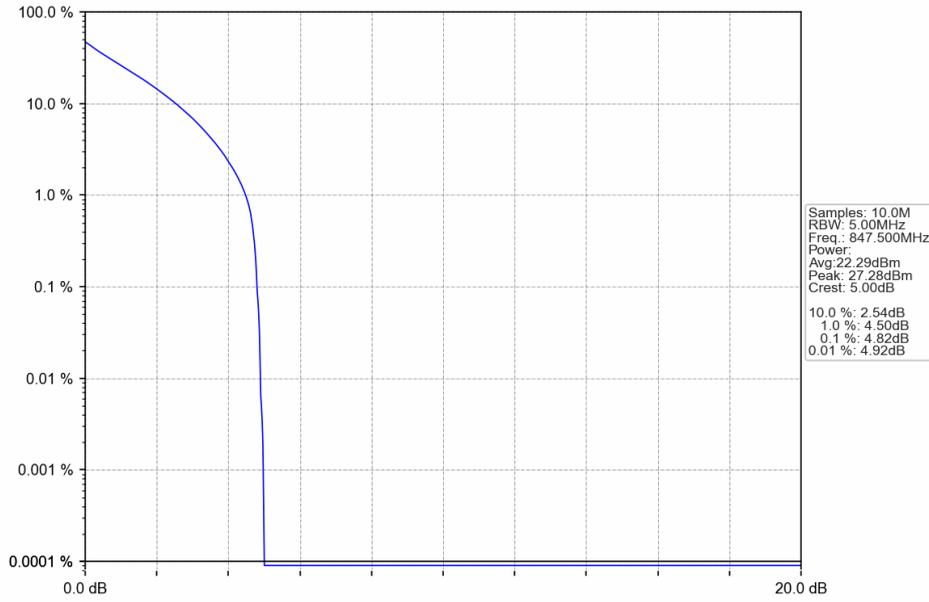


LTE_BAND 5_3MHz

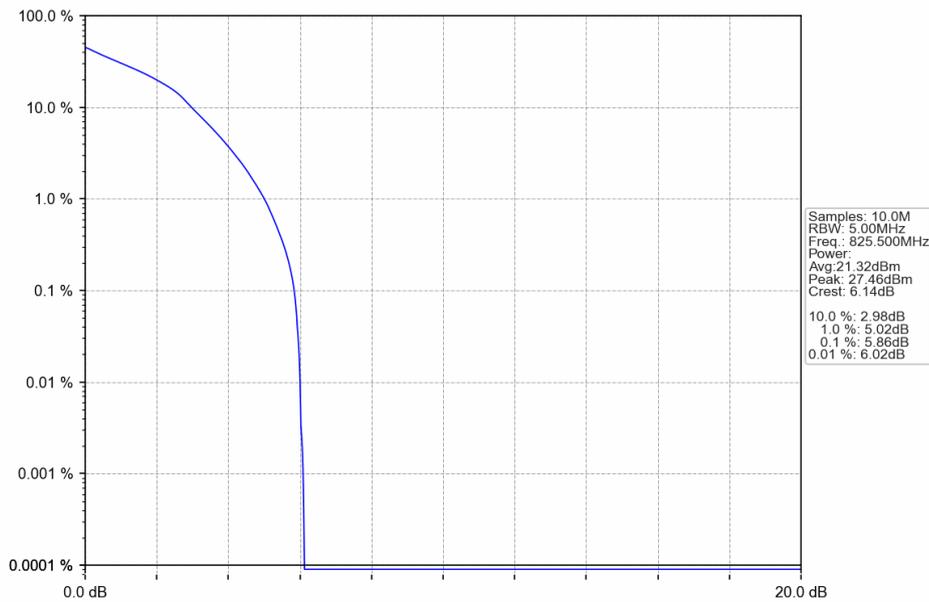




Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV

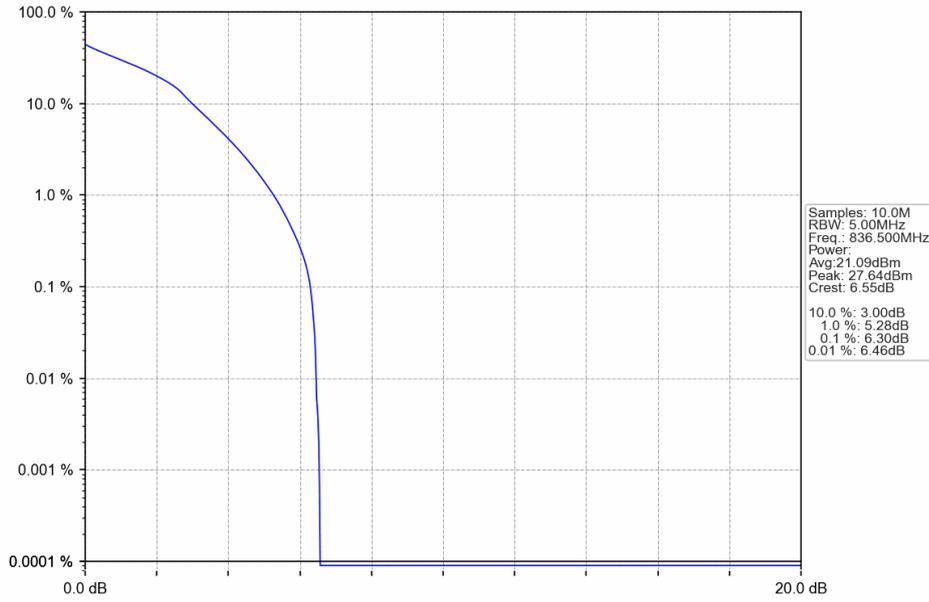


Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV

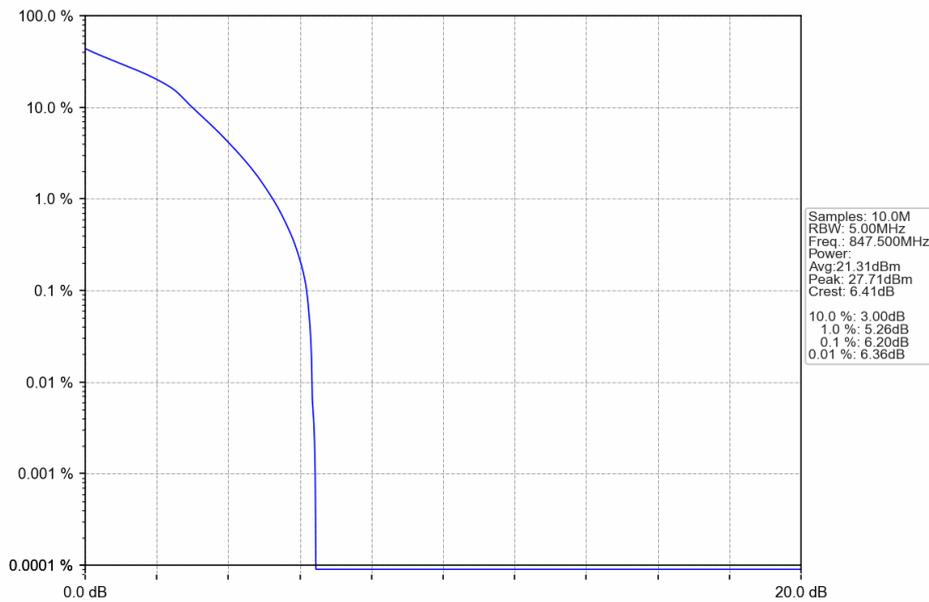




Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV

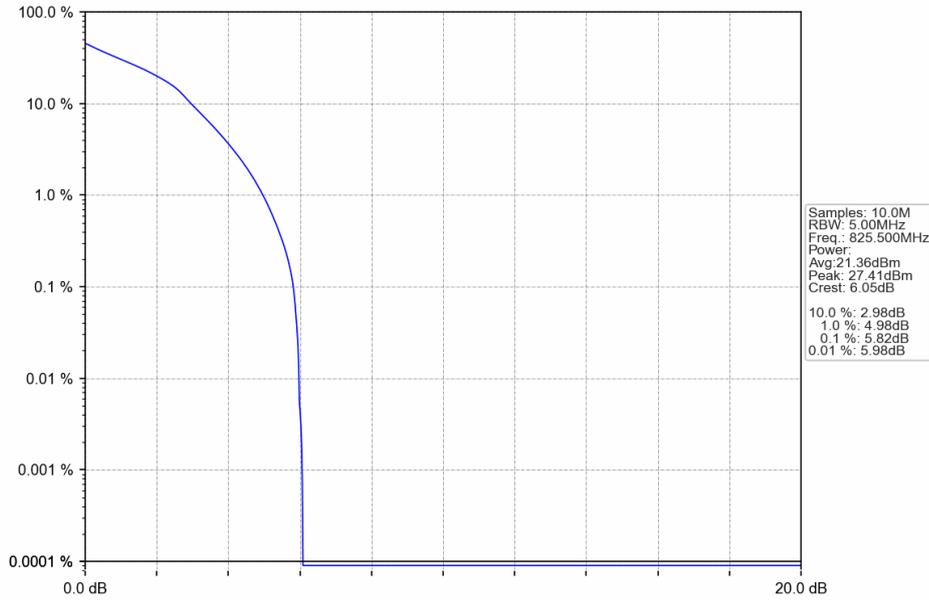


Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV

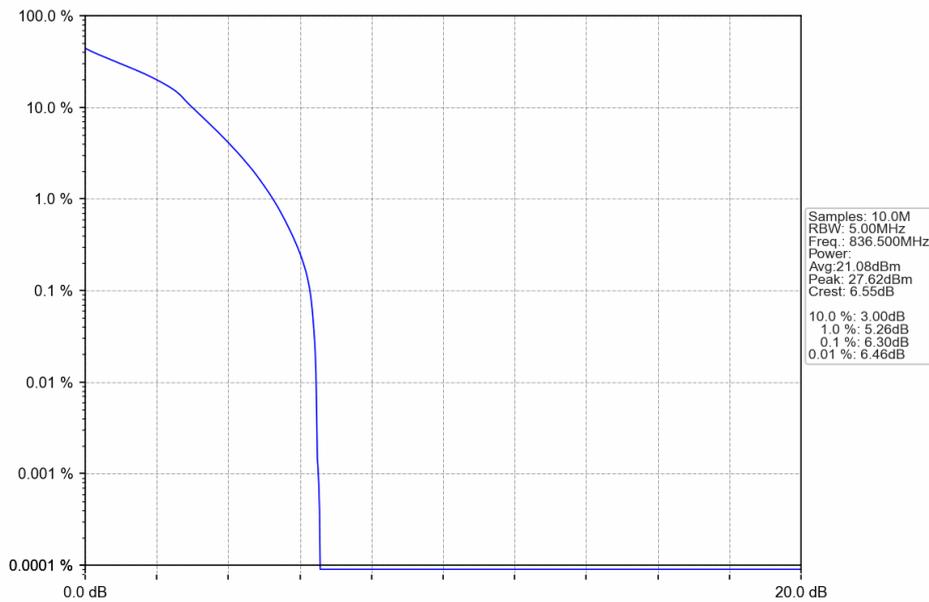




Band5_3MHz_64QAM_LCH_825.5MHz_RB_15_0_NTNV

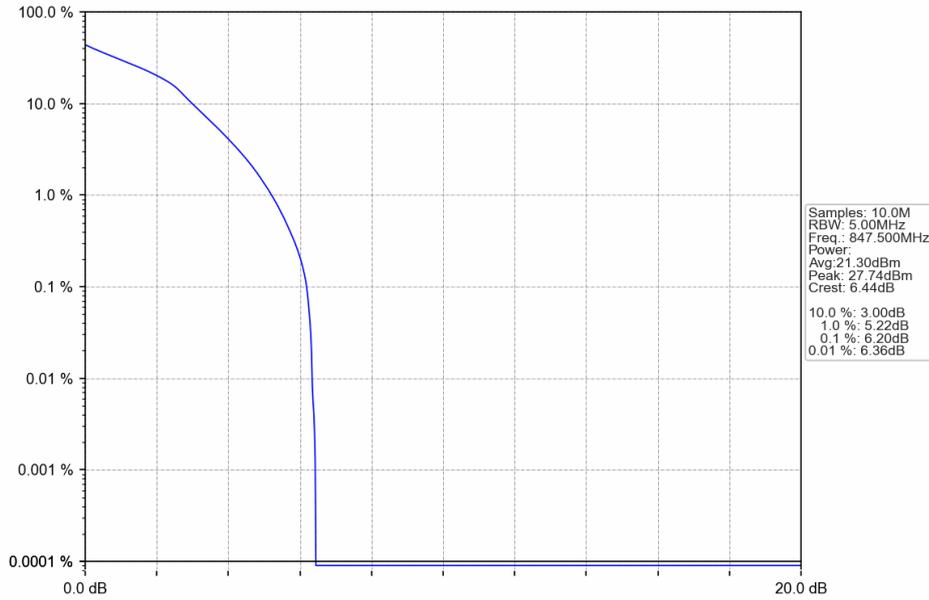


Band5_3MHz_64QAM_MCH_836.5MHz_RB_15_0_NTNV



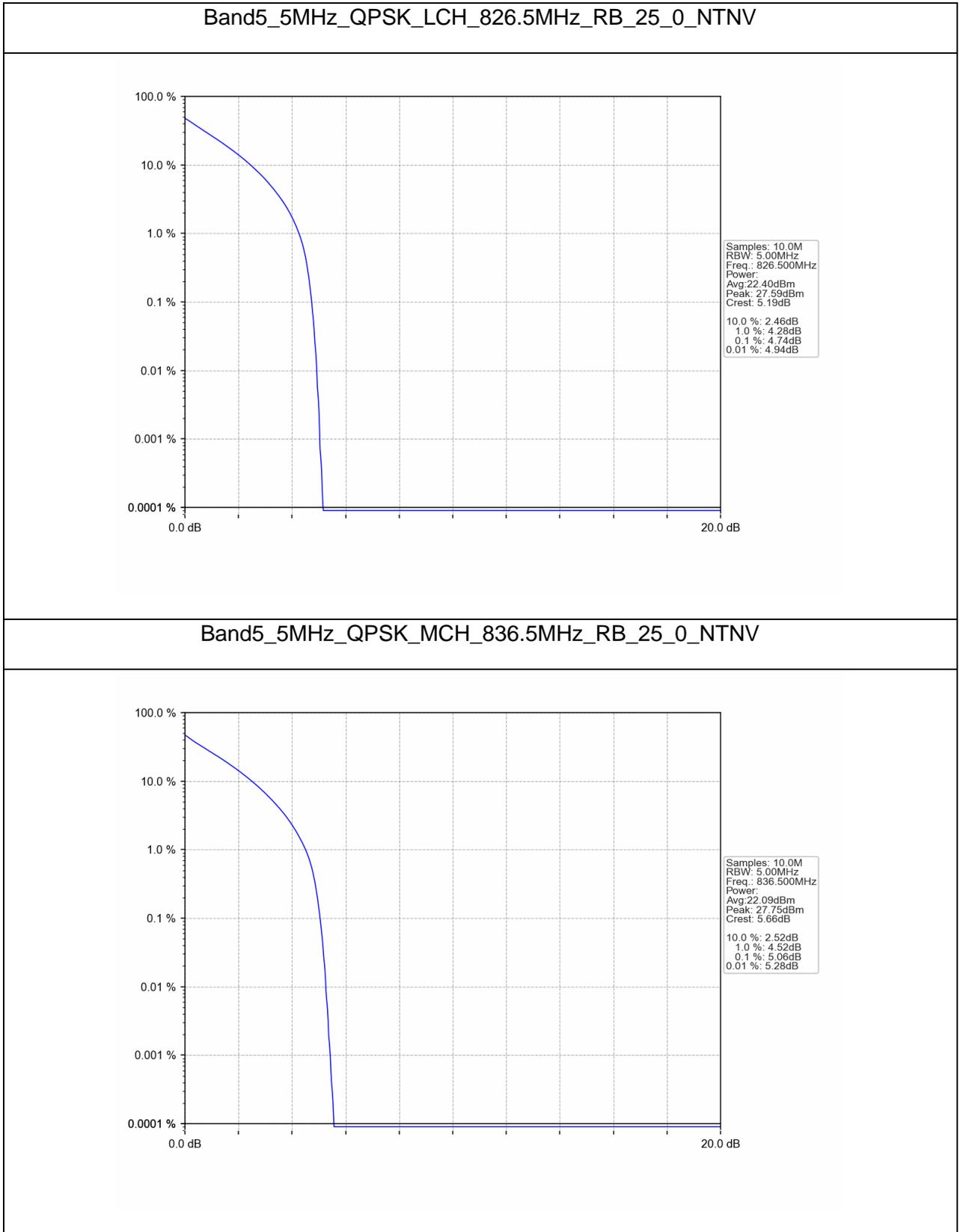


Band5_3MHz_64QAM_HCH_847.5MHz_RB_15_0_NTNV



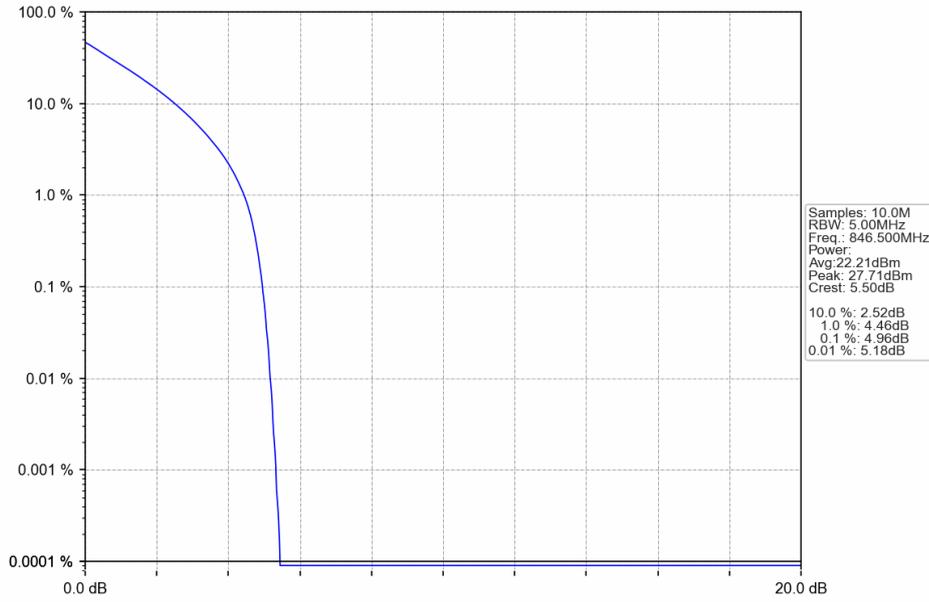


LTE_BAND 5_5MHz

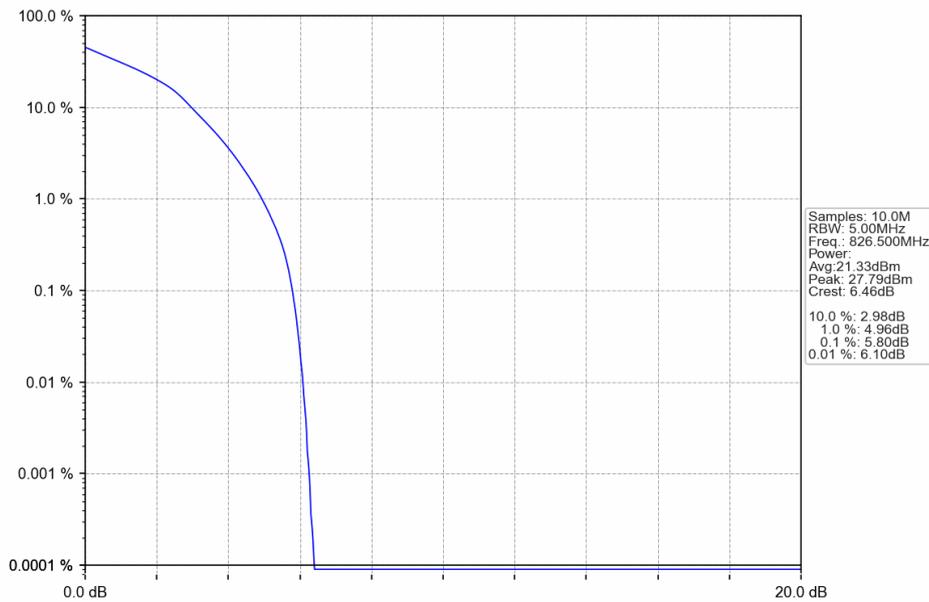




Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV

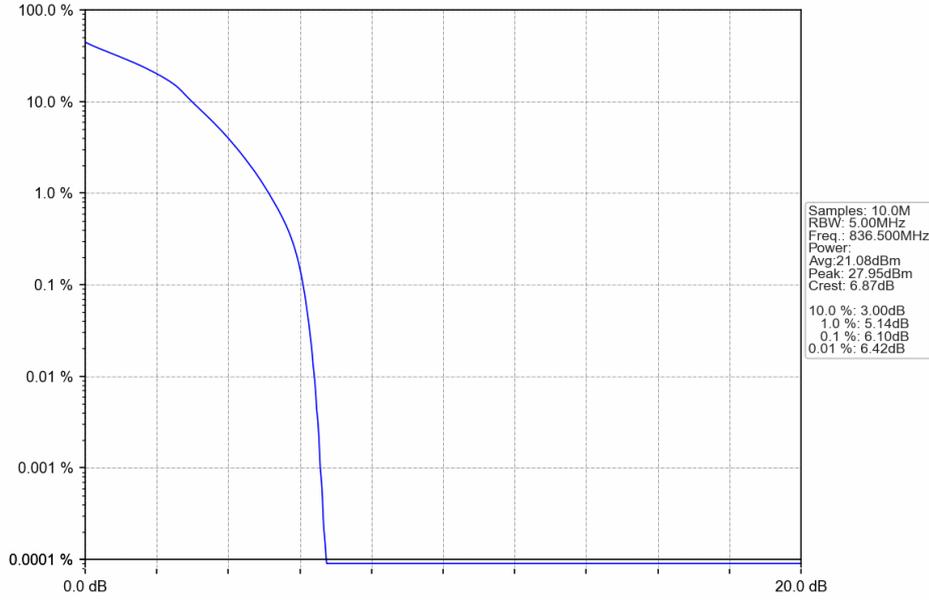


Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV

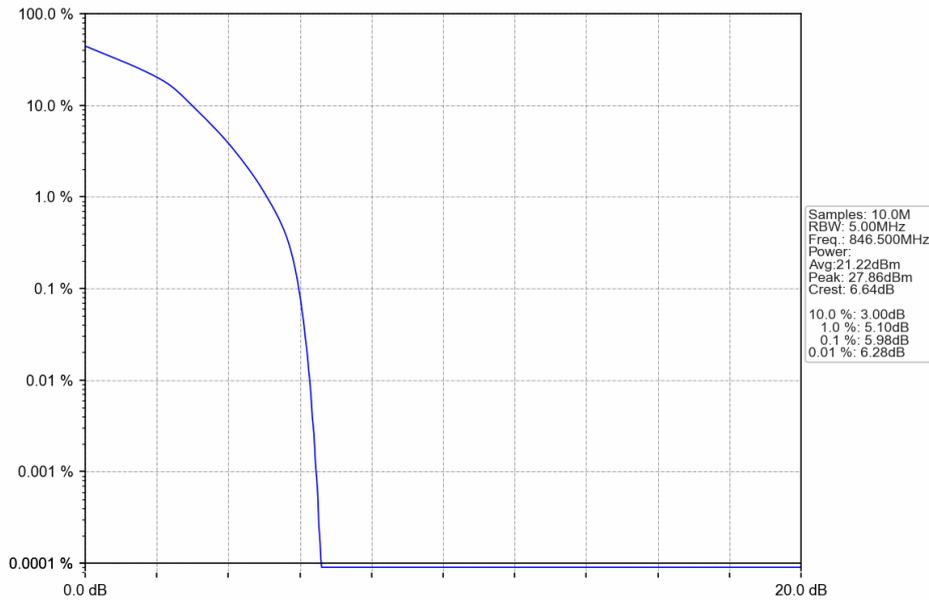




Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV

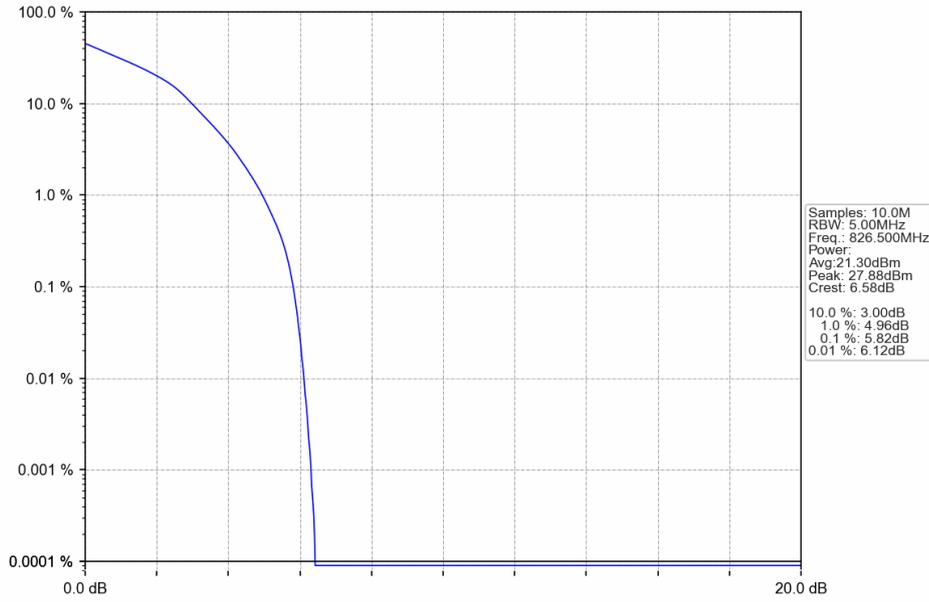


Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV

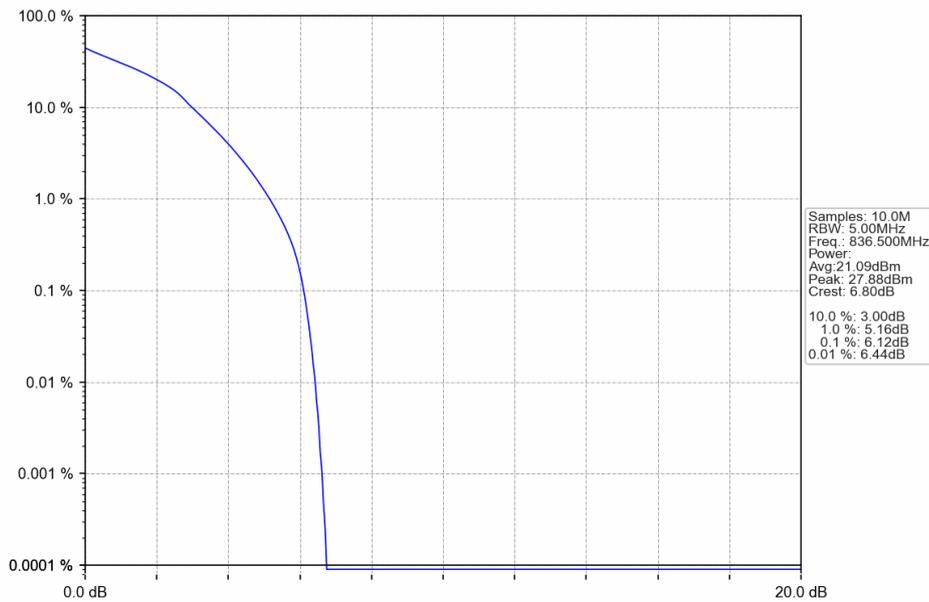




Band5_5MHz_64QAM_LCH_826.5MHz_RB_25_0_NTNV

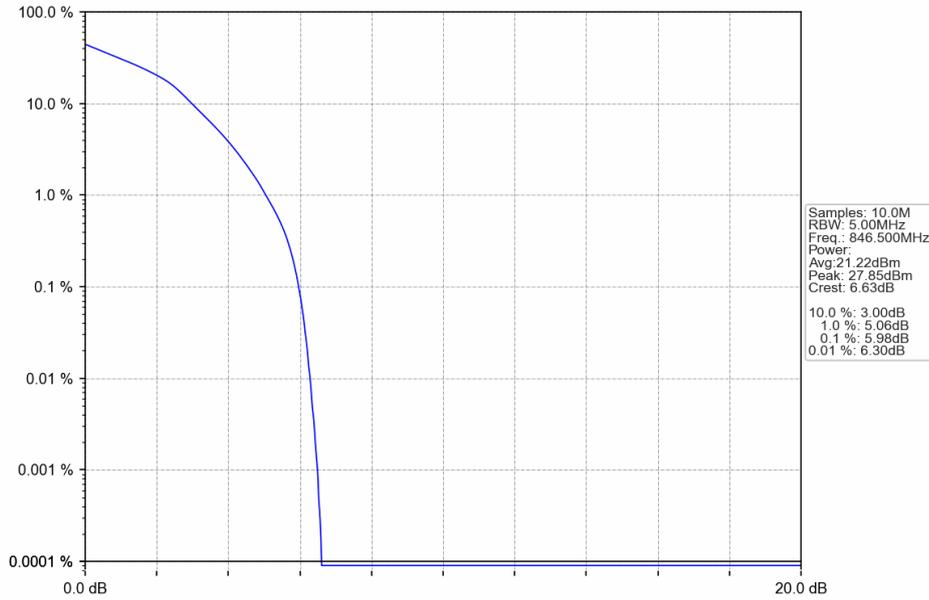


Band5_5MHz_64QAM_MCH_836.5MHz_RB_25_0_NTNV



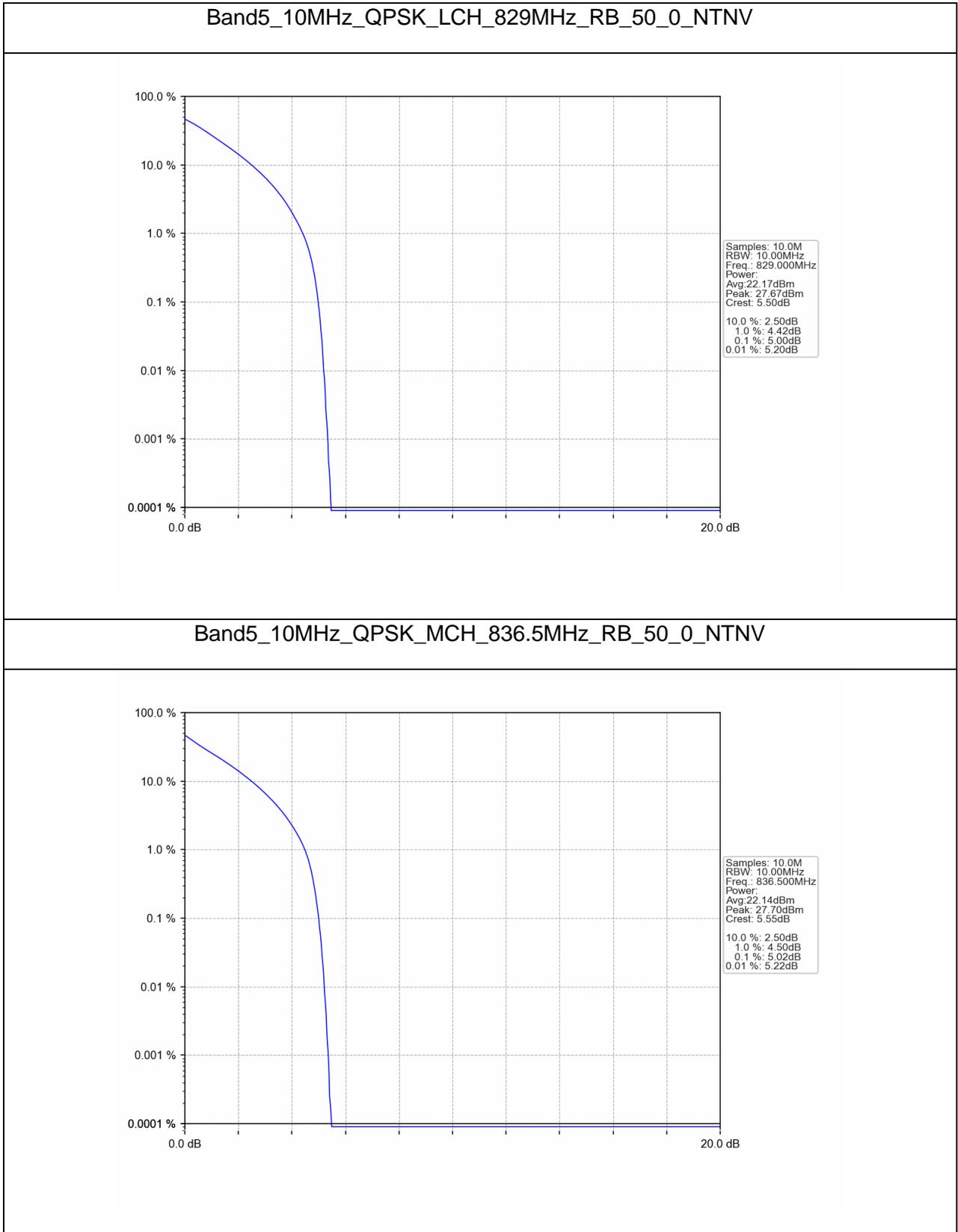


Band5_5MHz_64QAM_HCH_846.5MHz_RB_25_0_NTNV



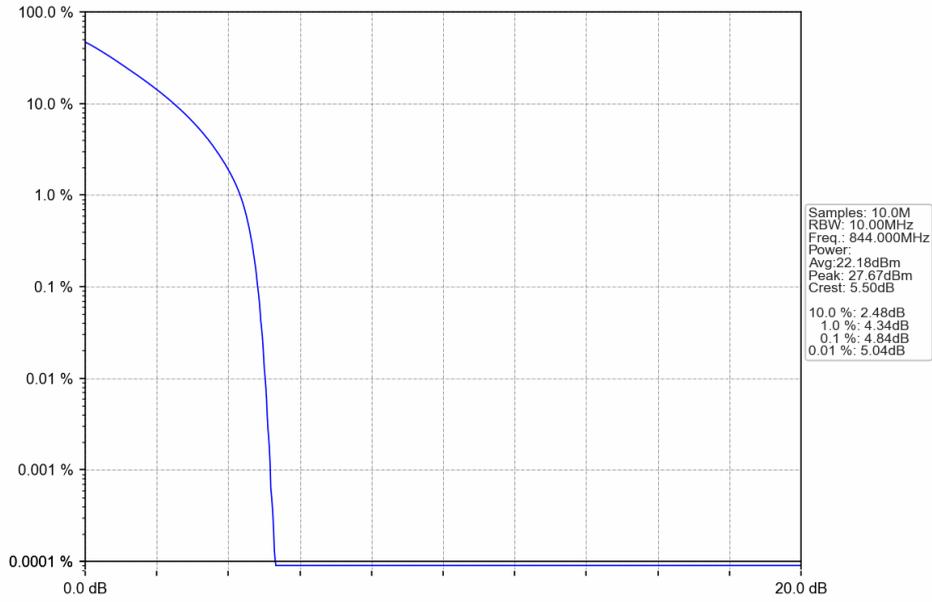


LTE_BAND 5_10MHz

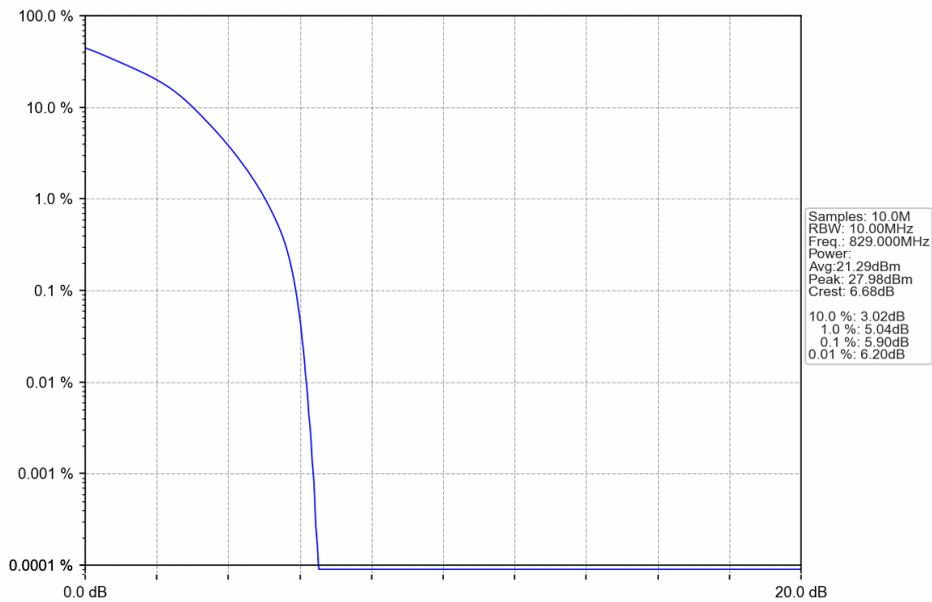




Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV

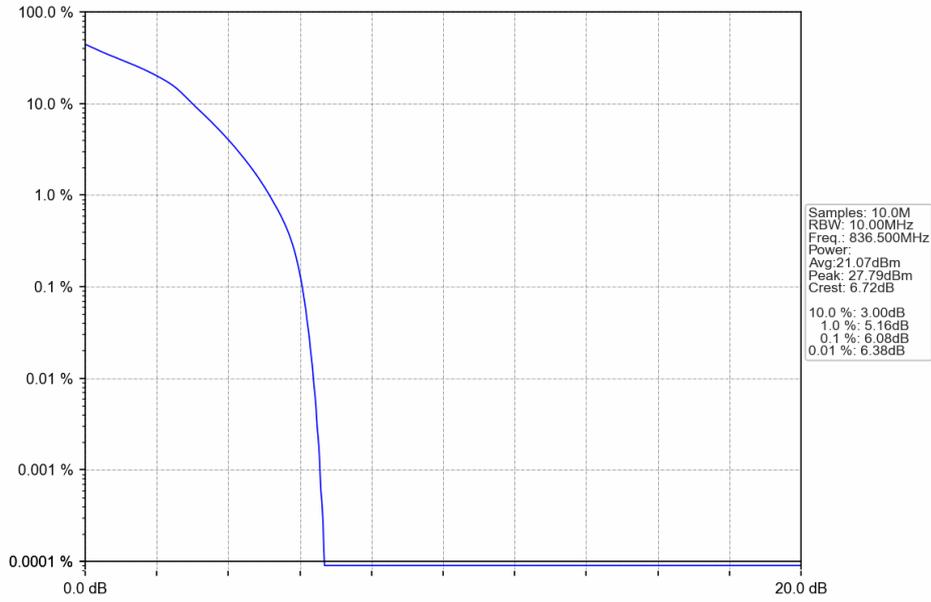


Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV

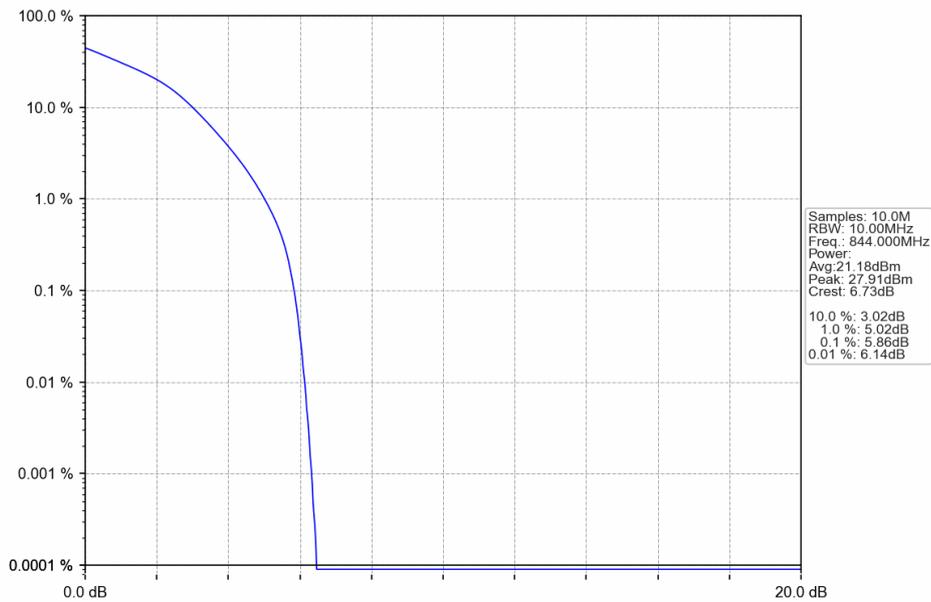




Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV

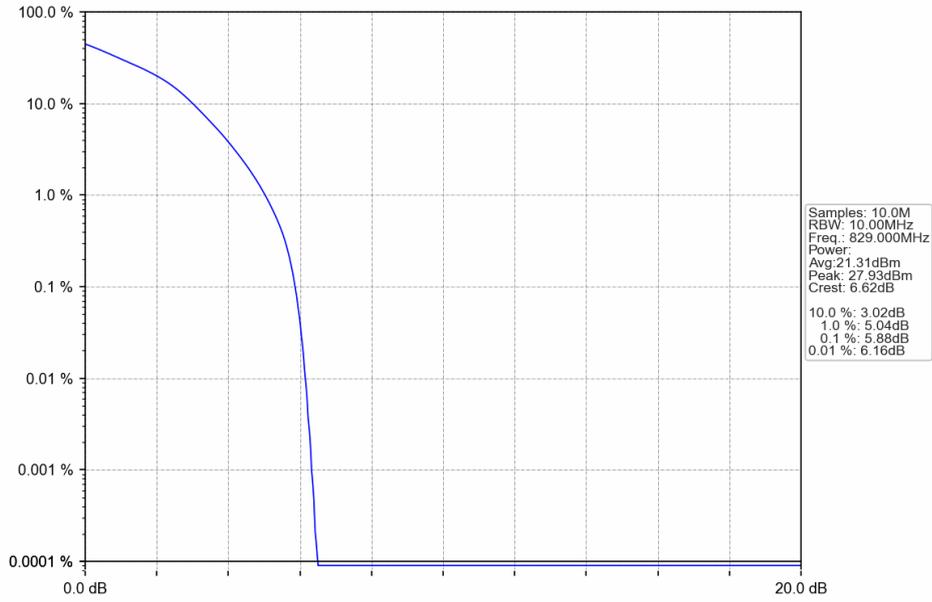


Band5_10MHz_16QAM_HCH_844MHz_RB_50_0_NTNV

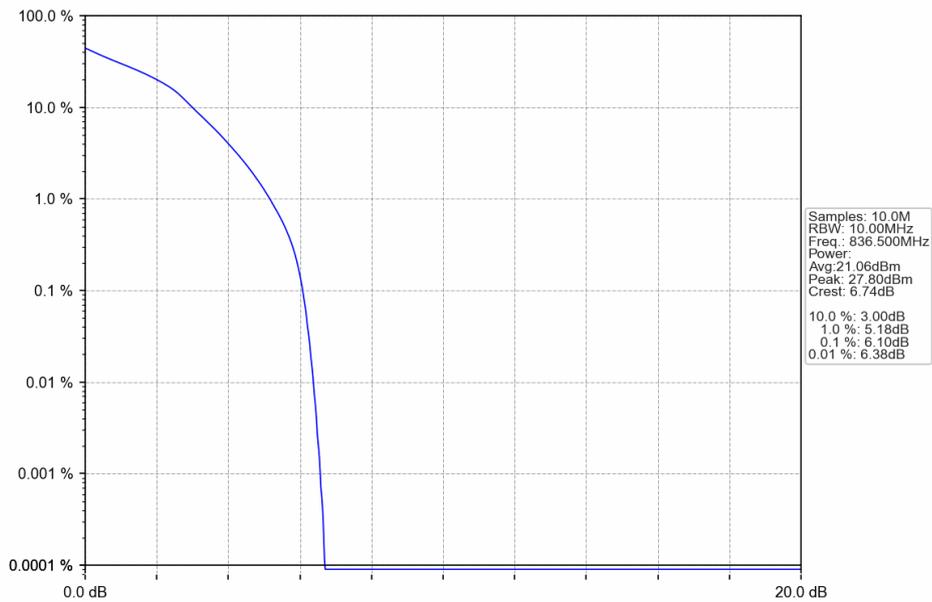




Band5_10MHz_64QAM_LCH_829MHz_RB_50_0_NTNV

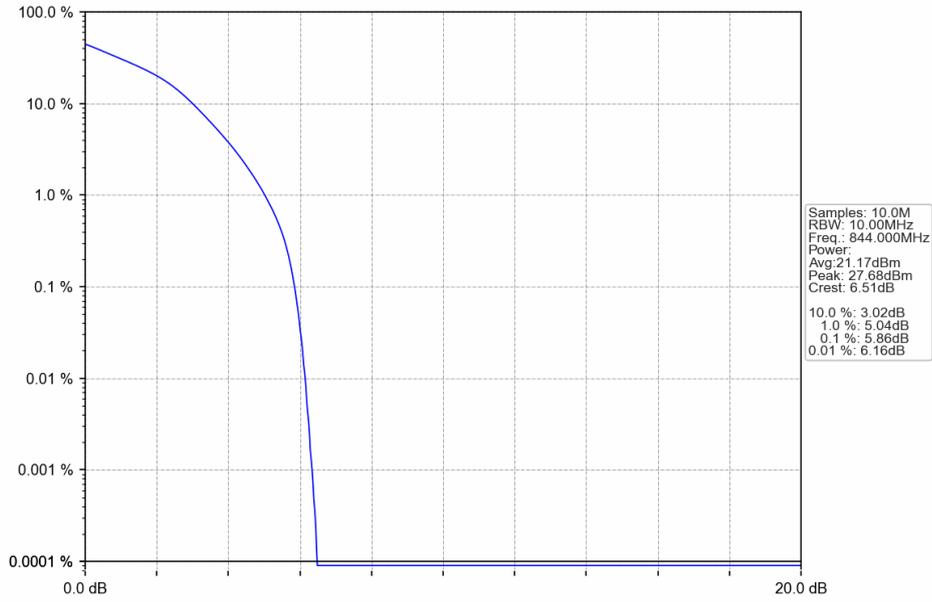


Band5_10MHz_64QAM_MCH_836.5MHz_RB_50_0_NTNV





Band5_10MHz_64QAM_HCH_844MHz_RB_50_0_NTNV





26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

| Band: 5 / NTNV | | | | | | | |
|-----------------|------------|-----------------|---------------|--------|----------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation | | 26dB Bandwidth (MHz) | | Verdict |
| | | | Size | Offset | Result | Limit | |
| 1.4 | QPSK | 824.7 | 6 | 0 | 1.366 | / | Pass |
| | | 836.5 | 6 | 0 | 1.367 | / | Pass |
| | | 848.3 | 6 | 0 | 1.385 | / | Pass |
| | 16QAM | 824.7 | 6 | 0 | 1.373 | / | Pass |
| | | 836.5 | 6 | 0 | 1.346 | / | Pass |
| | | 848.3 | 6 | 0 | 1.411 | / | Pass |
| | 64QAM | 824.7 | 6 | 0 | 1.364 | / | Pass |
| | | 836.5 | 6 | 0 | 1.359 | / | Pass |
| | | 848.3 | 6 | 0 | 1.343 | / | Pass |
| 3 | QPSK | 825.5 | 15 | 0 | 3.174 | / | Pass |
| | | 836.5 | 15 | 0 | 3.121 | / | Pass |
| | | 847.5 | 15 | 0 | 3.145 | / | Pass |
| | 16QAM | 825.5 | 15 | 0 | 3.111 | / | Pass |
| | | 836.5 | 15 | 0 | 3.135 | / | Pass |
| | | 847.5 | 15 | 0 | 3.135 | / | Pass |
| | 64QAM | 825.5 | 15 | 0 | 3.127 | / | Pass |
| | | 836.5 | 15 | 0 | 3.155 | / | Pass |
| | | 847.5 | 15 | 0 | 3.119 | / | Pass |
| 5 | QPSK | 826.5 | 25 | 0 | 5.139 | / | Pass |
| | | 836.5 | 25 | 0 | 5.102 | / | Pass |
| | | 846.5 | 25 | 0 | 5.163 | / | Pass |
| | 16QAM | 826.5 | 25 | 0 | 5.157 | / | Pass |
| | | 836.5 | 25 | 0 | 5.147 | / | Pass |
| | | 846.5 | 25 | 0 | 5.223 | / | Pass |
| | 64QAM | 826.5 | 25 | 0 | 5.177 | / | Pass |
| | | 836.5 | 25 | 0 | 5.160 | / | Pass |
| | | 846.5 | 25 | 0 | 5.105 | / | Pass |
| 10 | QPSK | 829 | 50 | 0 | 9.940 | / | Pass |
| | | 836.5 | 50 | 0 | 9.955 | / | Pass |
| | | 844 | 50 | 0 | 10.035 | / | Pass |
| | 16QAM | 829 | 50 | 0 | 10.001 | / | Pass |
| | | 836.5 | 50 | 0 | 10.022 | / | Pass |
| | | 844 | 50 | 0 | 9.963 | / | Pass |
| | 64QAM | 829 | 50 | 0 | 9.870 | / | Pass |
| | | 836.5 | 50 | 0 | 9.953 | / | Pass |
| | | 844 | 50 | 0 | 10.031 | / | Pass |

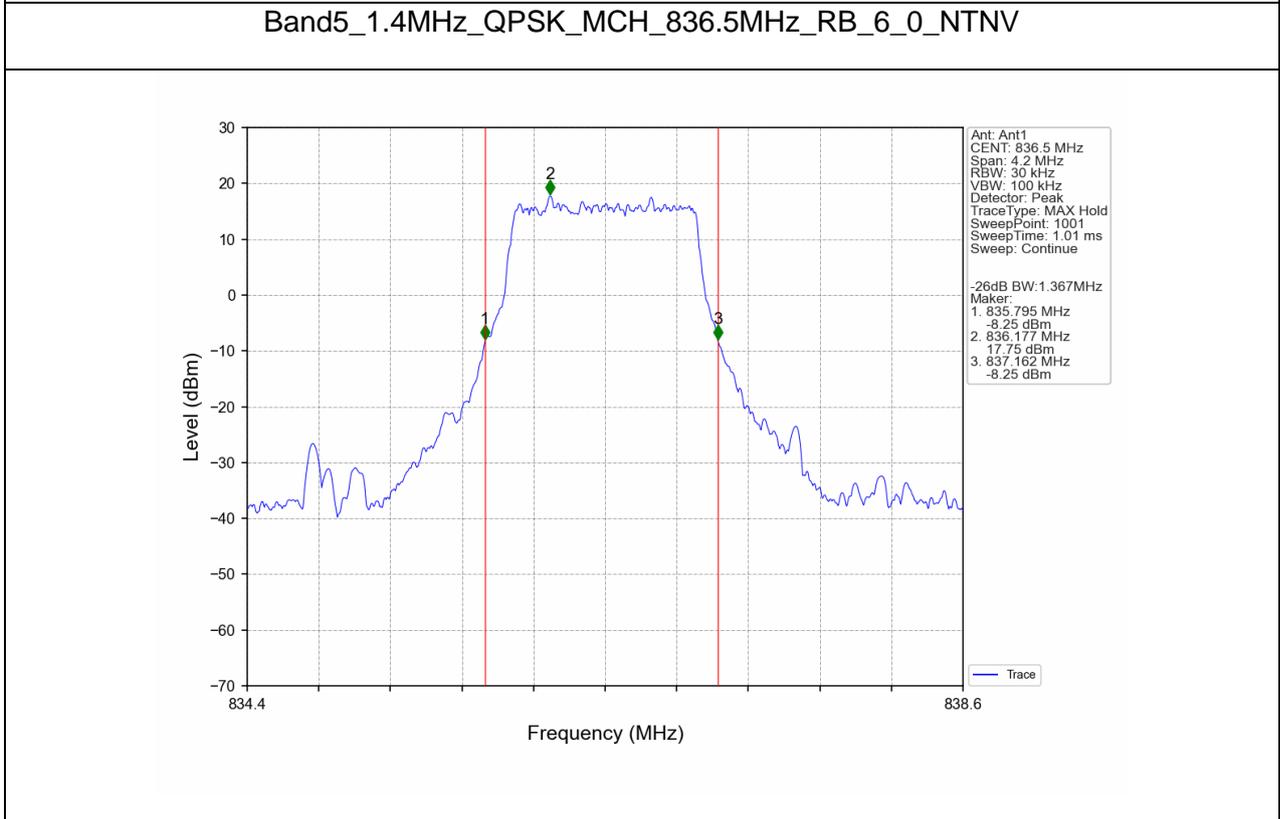
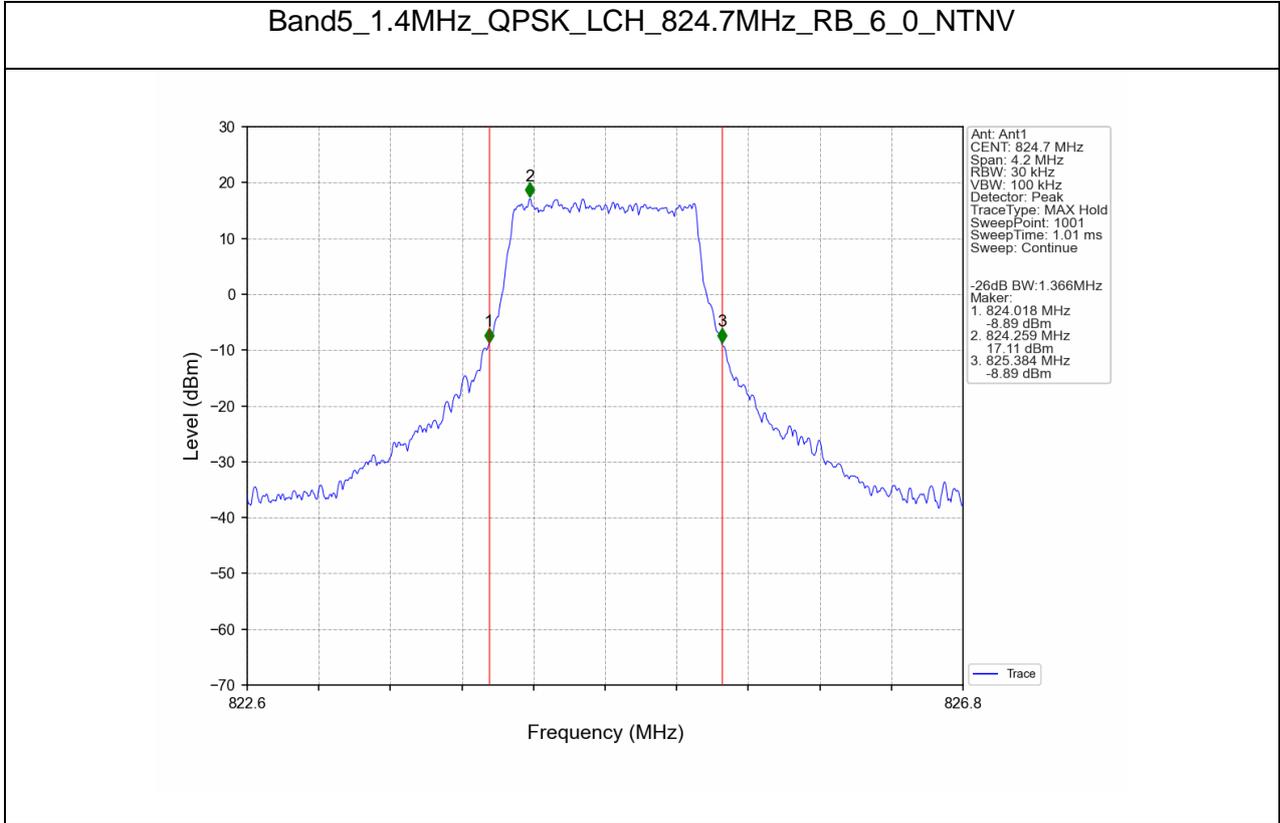


| Band: 5 / NTNV | | | | | | | |
|-----------------|------------|-----------------|---------------|--------|------------------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation | | 99% Occupied Bandwidth (MHz) | | Verdict |
| | | | Size | Offset | Result | Limit | |
| 1.4 | QPSK | 824.7 | 6 | 0 | 1.110 | / | Pass |
| | | 836.5 | 6 | 0 | 1.101 | / | Pass |
| | | 848.3 | 6 | 0 | 1.101 | / | Pass |
| | 16QAM | 824.7 | 6 | 0 | 1.105 | / | Pass |
| | | 836.5 | 6 | 0 | 1.107 | / | Pass |
| | | 848.3 | 6 | 0 | 1.111 | / | Pass |
| | 64QAM | 824.7 | 6 | 0 | 1.102 | / | Pass |
| | | 836.5 | 6 | 0 | 1.099 | / | Pass |
| | | 848.3 | 6 | 0 | 1.106 | / | Pass |
| 3 | QPSK | 825.5 | 15 | 0 | 2.738 | / | Pass |
| | | 836.5 | 15 | 0 | 2.754 | / | Pass |
| | | 847.5 | 15 | 0 | 2.743 | / | Pass |
| | 16QAM | 825.5 | 15 | 0 | 2.759 | / | Pass |
| | | 836.5 | 15 | 0 | 2.742 | / | Pass |
| | | 847.5 | 15 | 0 | 2.751 | / | Pass |
| | 64QAM | 825.5 | 15 | 0 | 2.744 | / | Pass |
| | | 836.5 | 15 | 0 | 2.764 | / | Pass |
| | | 847.5 | 15 | 0 | 2.741 | / | Pass |
| 5 | QPSK | 826.5 | 25 | 0 | 4.521 | / | Pass |
| | | 836.5 | 25 | 0 | 4.532 | / | Pass |
| | | 846.5 | 25 | 0 | 4.521 | / | Pass |
| | 16QAM | 826.5 | 25 | 0 | 4.505 | / | Pass |
| | | 836.5 | 25 | 0 | 4.515 | / | Pass |
| | | 846.5 | 25 | 0 | 4.538 | / | Pass |
| | 64QAM | 826.5 | 25 | 0 | 4.519 | / | Pass |
| | | 836.5 | 25 | 0 | 4.519 | / | Pass |
| | | 846.5 | 25 | 0 | 4.517 | / | Pass |
| 10 | QPSK | 829 | 50 | 0 | 8.991 | / | Pass |
| | | 836.5 | 50 | 0 | 9.038 | / | Pass |
| | | 844 | 50 | 0 | 9.011 | / | Pass |
| | 16QAM | 829 | 50 | 0 | 9.008 | / | Pass |
| | | 836.5 | 50 | 0 | 9.013 | / | Pass |
| | | 844 | 50 | 0 | 9.023 | / | Pass |
| | 64QAM | 829 | 50 | 0 | 9.005 | / | Pass |
| | | 836.5 | 50 | 0 | 9.024 | / | Pass |
| | | 844 | 50 | 0 | 8.989 | / | Pass |



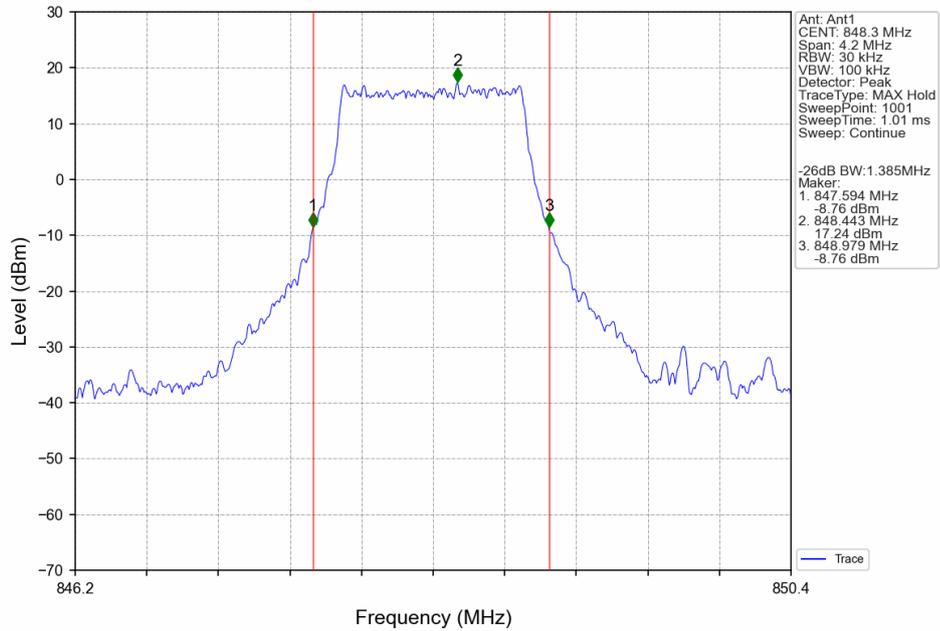
Test Graphs

26dB Bandwidth





Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV

