



**Radio Test Report
Application for Grant of Equipment Authorization**

**FCC Part 27
[2496MHz – 2690MHz]**

FCC ID: VBNAVHA-01

**Nokia Solutions and Networks
Airscale Base Transceiver Station Radio Unit
Model: AVHA**

Feature: CB013711

Report: NOKI0087.0 Rev. 0, Issue Date: September 8, 2025



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CERTIFICATE OF TEST

Last Date of Test: August 19, 2025
Nokia Solutions and Networks
EUT: Airscale Base Transceiver Station Radio Unit Model AVHA

Radio Equipment Testing

Standards

| Specification | Method |
|---|--|
| Code of Federal Regulations (CFR) Title 47 Part 2 | ANSI C63.26-2015 with FCC KDB 971168 D01 v03r01 |
| CFR Title 47 Part 27 Subpart C | FCC KDB 662911D01 v02r01 FCC KDB 662911D02 v01 FCC KDB 971168 D01v03 |

Results

| Test Description | Specification Section(s) | Method Section(s) | Results | Comments |
|-----------------------------------|--------------------------|-------------------|---------|----------|
| Occupied Bandwidth | 27.53 (m) | 5.4 | Pass | |
| Output Power | 27.50 (h) | 5.2 | Pass | |
| Peak to Average Power (PAPR) CCDF | 27.50 (h) | 5.2 | Pass | |
| Band Edge Compliance | 27.53 (m) | 5.7 | Pass | |
| Spurious Conducted Emissions | 27.53 (m) | 5.7 | Pass | |

Deviations From Test Standards

None

Approved By:



Adam Bruno, Operations Manager
 Signed for and on behalf of Element

Product compliance is the responsibility of the client; therefore, the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. The results of this test pertain only to the sample(s) tested. The specific description is noted in each of the individual sections of the test report supporting this certificate of test. This report reflects only those tests from the referenced standards shown in the certificate of test. It does not include inspection or verification of labels, identification, marking or user information. As indicated in the Statement of Work sent with the quotation, Element's standard process is to always use the latest published version of the test methods even when earlier versions are cited in the test specification. Issuance of a purchase order was de facto acceptance of this approach. Otherwise, the client would have advised Element in writing of the specific version of the test methods they wanted applied to the subject testing.

REVISION HISTORY



| Revision Number | | Description | Date (yyyy-mm-dd) | Page Number |
|-----------------|------|-------------|-------------------|-------------|
| 00 | None | | | |

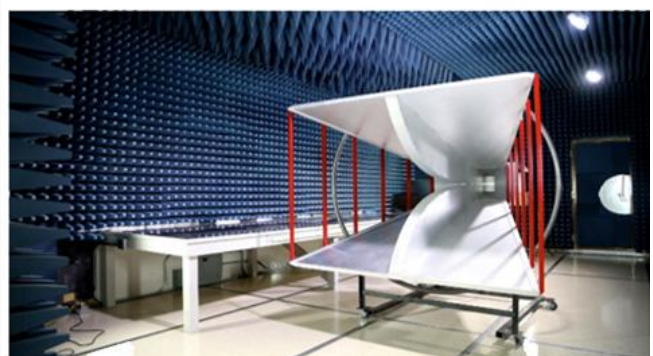
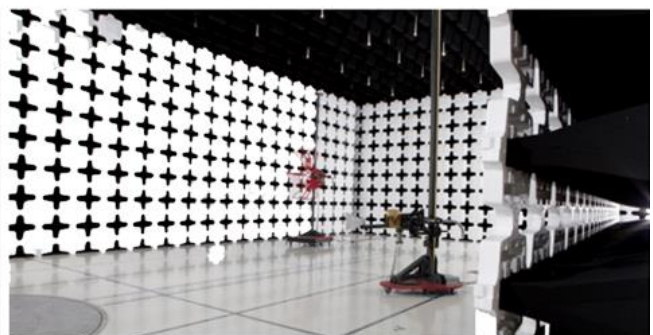
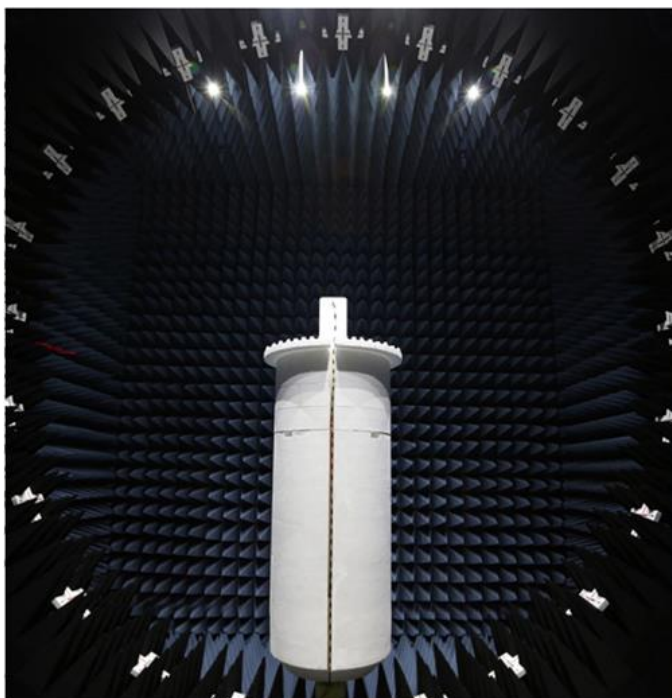
FACILITIES

Testing was performed at the following location(s)

| | Location | Labs ⁽¹⁾ | Address | A2LA ⁽²⁾ | ISED ⁽³⁾ | BSMI ⁽⁴⁾ | VCCI ⁽⁵⁾ | CAB | FDA ⁽⁶⁾ |
|-------------------------------------|-------------|---------------------|---|---------------------|---------------------|---------------------|---------------------|--------|--------------------|
| <input checked="" type="checkbox"/> | Plano Texas | PT01-15 | 1701 E Plano Pkwy, Ste 150 Plano, TX 75074 (972) 509-2566 | 214.19 | 32637 | SL2-IN-E-057R | A-0426 | US0054 | TL-137 |
| <input type="checkbox"/> | Offsite | N/A | See Product Description | N/A | N/A | N/A | N/A | N/A | N/A |

See data sheets for specific labs

- (1) The lab designations denote individual rooms within each location. (OC01, OC02, OC03, etc.)
- (2) A2LA Certificate No.
- (3) ISED Company No.
- (4) BSMI No.
- (5) VCCI Site Filing No.
- (6) FDA ASCA No.



MEASUREMENT UNCERTAINTY

Measurement Uncertainty

When a measurement is made, the result will be different from the true or theoretically correct value. The difference is the result of tolerances in the measurement system that cannot be completely eliminated. To the extent that technology allows us, it has been our aim to minimize this error. Measurement uncertainty is a statistical expression of measurement error qualified by a probability distribution.

A measurement uncertainty estimation reported is based on statistical analysis that was performed by the laboratory. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty ($k=2$) can be found in the table below. A lab specific value may also be found in the applicable test description section. Our measurement data meets or exceeds the measurement uncertainty requirements of the applicable specification; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for estimating measurement uncertainty are based upon ETSI TR 100 028 (or CISPR 16-4-2 as applicable) and are available upon request.

The following table represents the Measurement Uncertainty (MU) budgets for each of the tests that may be contained in this report.

Various Measurements

| Test | All Labs (+/-) |
|--|-------------------|
| Frequency Accuracy (%) | 0.0007 |
| Amplitude Accuracy (dB) | 1.2 |
| Conducted Power (dB) | 1.2 |
| Radiated Power via Substitution (dB) | 0.7 |
| Temperature (degrees C) | 0.7 |
| Humidity (% RH) | 2.5 |
| Voltage (AC) (%) | 1 |
| Voltage (DC) (%) | 0.7 |
| Near-field Measurement of E-Field (dB) | 1.89 |
| Near-field Measurement of H-Field (dB) | 2.65 |

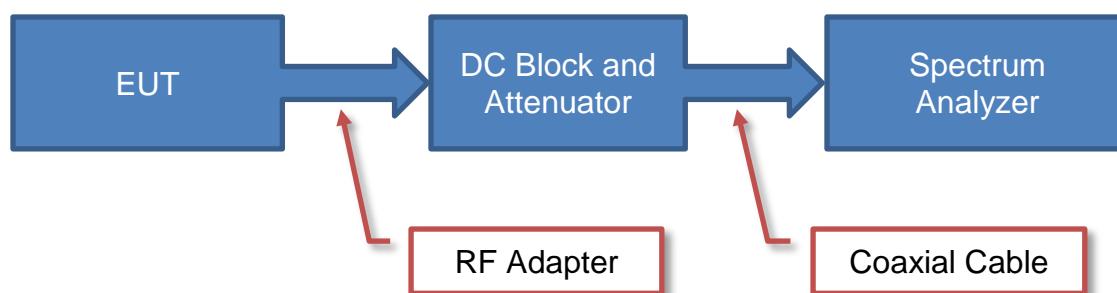
TEST SETUP BLOCK DIAGRAMS

Measurement Bandwidths

| Frequency Range (MHz) | Peak Data (kHz) | Quasi-Peak Data (kHz) | Average Data (kHz) |
|-----------------------|-----------------|-----------------------|--------------------|
| 0.01 - 0.15 | 1.0 | 0.2 | 0.2 |
| 0.15 - 30.0 | 10.0 | 9.0 | 9.0 |
| 30.0 - 1000 | 100.0 | 120.0 | 120.0 |
| Above 1000 | 1000.0 | N/A | 1000.0 |

Unless otherwise stated, measurements were made using the bandwidths and detectors specified. No video filter was used.

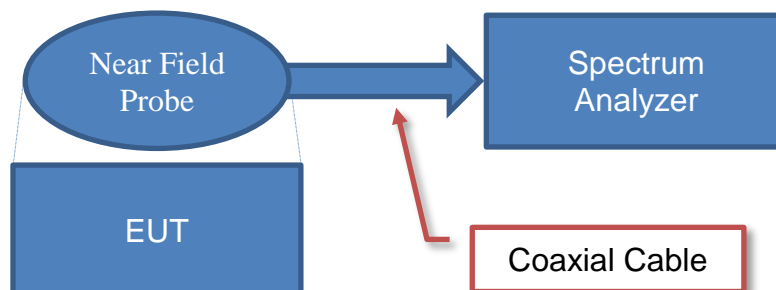
Antenna Port Conducted Measurements



Sample Calculation (logarithmic units)

| | | | | |
|----------------|---|----------------|---|------------------------|
| Measured Value | | Measured Level | | Reference Level Offset |
| 71.2 | = | 42.6 | + | 28.6 |

Near Field Test Fixture Measurements

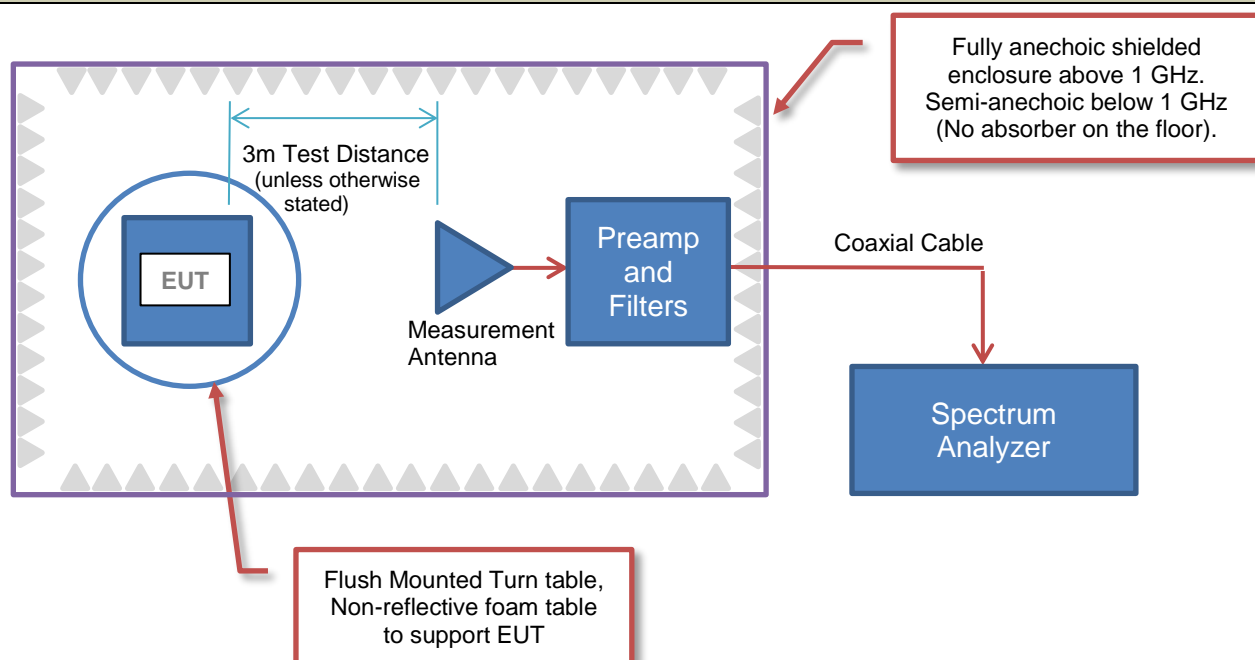


Sample Calculation (logarithmic units)

| | | | | |
|----------------|---|----------------|---|------------------------|
| Measured Value | | Measured Level | | Reference Level Offset |
| 71.2 | = | 42.6 | + | 28.6 |

TEST SETUP BLOCK DIAGRAMS

Emissions Measurements



Sample Calculation (logarithmic units)

Radiated Emissions:

| Measured Level (Amplitude) | Factor | | | Distance Adjustment Factor | External Attenuation | Field Strength |
|----------------------------|----------------|--------------|----------------|----------------------------|----------------------|----------------|
| | Antenna Factor | Cable Factor | Amplifier Gain | | | |
| 42.6 | 28.6 | 3.1 | 40.8 | 0.0 | 0.0 | 33.5 |

Conducted Emissions:

| Measured Level (Amplitude) | Factor | | External Attenuation | Adjusted Level |
|----------------------------|-------------------|--------------|----------------------|----------------|
| | Transducer Factor | Cable Factor | | |
| 26.7 | 0.3 | 0.1 | 20.0 | 47.1 |

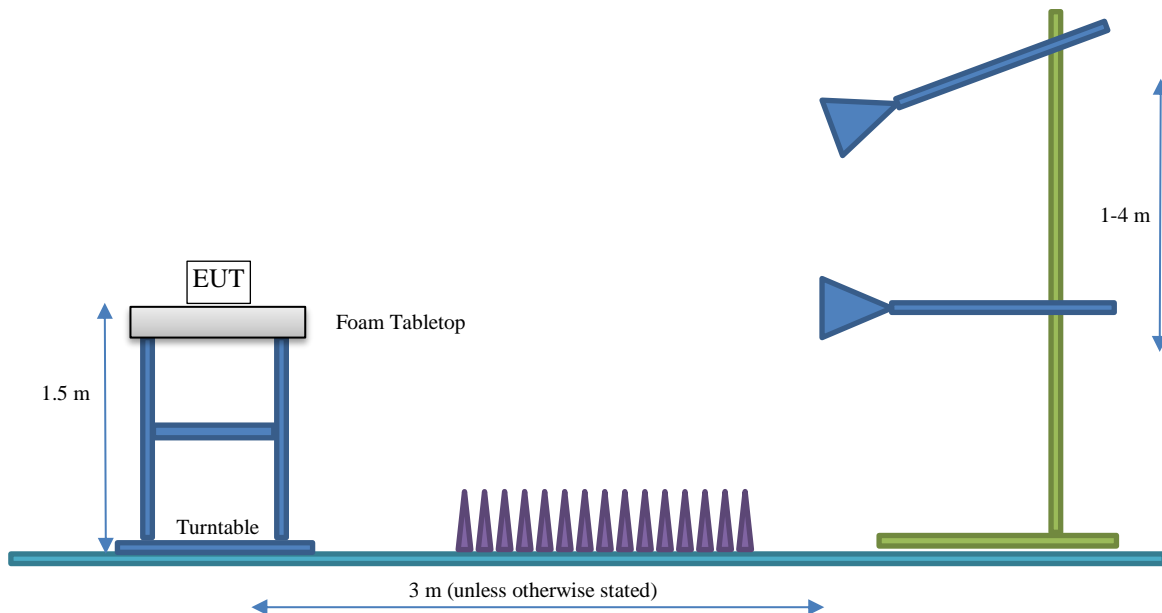
Radiated Power (ERP/EIRP) – Substitution Method:

| Measured Level into Substitution Antenna (Amplitude dBm) | Substitution Antenna Factor (dBi) | EIRP to ERP (if applicable) | Measured power (dBm ERP/EIRP) |
|--|-----------------------------------|-----------------------------|-------------------------------|
| 10.0 | 6.0 | 2.15 | 13.9/16.0 |

TEST SETUP BLOCK DIAGRAMS

Bore Sighting (>1GHz)

The diameter of the illumination area is the dimension of the line tangent to the EUT formed by 3 dB beamwidth of the measurement antenna at the measurement distance. At a 3 meter test distance, the diameter of the illumination area was 3.8 meters at 1 GHz and greater than 2.1 meters up to 6 GHz. Above 1 GHz, when required by the measurement standard, the antenna is pointed for both azimuth and elevation to maintain the receive antenna within the cone of radiation from the EUT. The specified measurement detectors were used for comparison of the emissions to the peak and average specification limits.



PRODUCT DESCRIPTION

Client and Equipment under Test (EUT) Information

| | |
|--------------------------|---|
| Company Name: | Nokia Solutions and Networks |
| Address: | 3201 Olympus Blvd |
| City, State, Zip: | Dallas, TX 75019 |
| Test Requested By: | Steve Mitchell |
| EUT: | Airscale Base Transceiver Station Radio Unit Model AVHA |
| First Date of Test: | August 13, 2025 |
| Last Date of Test: | August 19, 2025 |
| Receipt Date of Samples: | August 13, 2025 |
| Equipment Design Stage: | Production |
| Equipment Condition: | No Damage |
| Purchase Authorization: | Verified |

Information Provided by the Party Requesting the Test

Functional Description of the EUT:

Air Scale MAA 64T64R 192AE Radio Unit (RU) variant AVHA is being developed under this effort. The AVHA Radio Unit is designed to support 4G LTE and 5G NR (New Radio) TDD (Time Division Duplex) operations. **The scope of this testing effort is the FCC radio certification of the AVHA with focus on the addition of Nokia new feature (CB013711) Slim Carrier Bandwidths in TDD operations within the BRS/EBS Band.**

The AVHA RU supports 3GPP frequency band n41 operations for FCC BRS/EBS (BTS Tx/Rx: 2496 to 2690 MHz). the AVHA supports up to 64 ports MIMO operations. The maximum RF output power is 400 Watts (6.25W/TRX x 64 TRXs). The AVHA RU supports 5G NR TDD channel bandwidths of NR10, NR15, NR20, NR30, NR40, NR50, NR60, NR70, NR80, NR90, NR100. The AVHA RU with Slim Carrier feature (CB013711) supports 5G NR Slim Carrier bandwidths: 33MHz, 34MHz, 38MHz, 38.5MHz, 44MHz, 49MHz, 49.5MHz, 55MHz, 57.5MHz, 86MHz.

| AVHA Single Carrier Maximum RF Output Power | | | | | | | | | | |
|---|-------------------------|-----------------------|-----------------------|-------------------------|-----------------------|-----------------------|-------------------------|-----------------------|-------------------------|-------------------------|
| Carrier Power per | 33MHz | 34MHz | 38MHz | 38.5MHz | 44MHz | 49MHz | 49.5MHz | 55MHz | 57.5MHz | 86MHz |
| TRX | 2.6W or 34.1dBm | 2.7W or 34.2dBm | 3.0W or 34.7dBm | 3.0W or 34.8dBm | 3.4W or 35.4dBm | 3.8W or 35.8dBm | 3.9W or 35.9dBm | 4.3W or 36.3dBm | 4.5W or 36.5dBm | 5.9W Or 37.7dBm |
| Radio (64 x TRX) | 165.0W or 52.2dBm | 170W or 52.3dBm | 190W or 52.8dBm | 192.5W or 52.8dBm | 220W or 53.4dBm | 245W or 53.9dBm | 247.5W or 53.9dBm | 275W or 54.4dBm | 287.5W Or 54.6dBm | 378.4W Or 55.8dBm |

The Slim Carrier bandwidths are supported in the Nokia feature (CB013711) which is a bandwidth reduction feature. This allows for the carrier bandwidths to be slimmed down from the original 3Gpp Base carrier bandwidth, see below table. The PSD (W/MHz), modulation and Band Edge center frequency for the Slim Carriers are the same as used in their base bandwidths. The power measured uses the same PSD (W/MHz) as the base carrier thus the reduction follows the reduced carrier bandwidth.

PRODUCT DESCRIPTION

| AVHA Slim Carrier to Base Carrier reference Bandwidth chart | | |
|---|-------------|------------------------|
| Slim Carrier Bandwidth | PSD (W/MHz) | Base Carrier Bandwidth |
| 33.0MHz | 5.0W/MHz | 40MHz |
| 34.0MHz | | |
| 38.0MHz | | |
| 38.5MHz | | |
| 44.0MHz | 5.0W/MHz | 50MHz |
| 49.0MHz | | |
| 49.5MHz | | |
| 55.0MHz | 5.0W/MHz | 60MHz |
| 57.5MHz | | |
| 86.0MHz | 4.4W/MHz | 90MHz |

| AVHA Multi Carrier Maximum Power for Slim Carrier Bandwidths | | | |
|---|------------------------|--------------------|----------------------------------|
| Slim Carrier Bandwidth | Base Carrier Bandwidth | Maximum Port power | Maximum Multi Slim carrier Power |
| 33.0MHz in 4CC configuration | 40MHz | 6.25Watts | 1.29Watts or 31.1dBm per carrier |
| 33.0MHz in 2CC configuration | 40MHz | 6.25Watts | 2.58Watts or 34.1dBm per carrier |
| 86.0MHz in 2CC configuration | 90MHz | 6.25Watts | 2.99Watts or 34.8dBm per carrier |
| Note: Formula for Slim Multicarrier expected measured output: ((Slim carrier BW/ Base Carrier BW) *6.25W)/ # of carriers. | | | |

The AVHA RU supports four downlink 5G NR modulation types (QPSK, 16QAM, 64QAM and 256QAM). The AVHA RU instantaneous bandwidth is 194MHz and covers the entire FCC BRS/EBS Band. The maximum occupied bandwidth is 190MHz. Multicarrier operation is supported. The 4G LTE radio certification will be performed under a separate effort.

The AVHA antenna assembly has an array of 4 rows and 8 columns of ($\pm 45^\circ$) cross-polarized (orthogonal) radiators. This antenna assembly has a beamforming gain of 26.0 dBi. The sixty-four AVHA transmitter outputs are connected to the antenna array (thirty-two are connected to $+45^\circ$ radiators/antennas and thirty-two are connected to the -45° radiators/antennas).

The radio unit has external interfaces including DC power (DC IN), ground (GND), optical (OPT1-4) and remote electrical tilt/EAC connector (AISG). The RU with applicable installation kit is pole mounted.

Tests performed include RF channel power, CCDF- peak to average power ratio, emission bandwidth (99% and 26 dB down), band edge spurious emissions (± 1 MHz), and spurious emissions (conducted). The 5G NR modulation types for this testing are setup according to 3GPP TS 38.141-1 Test Models and are NR-FR1-TM 1.1 (QPSK modulation type), NR-FR1-TM 3.2 (16QAM modulation type), NR-FR1-TM 3.1 (64QAM modulation type), and NR-FR1-TM 3.1a (256QAM modulation type).

3GPP Frequency Band n41 5G NR Band Edge NR-ARFCNs

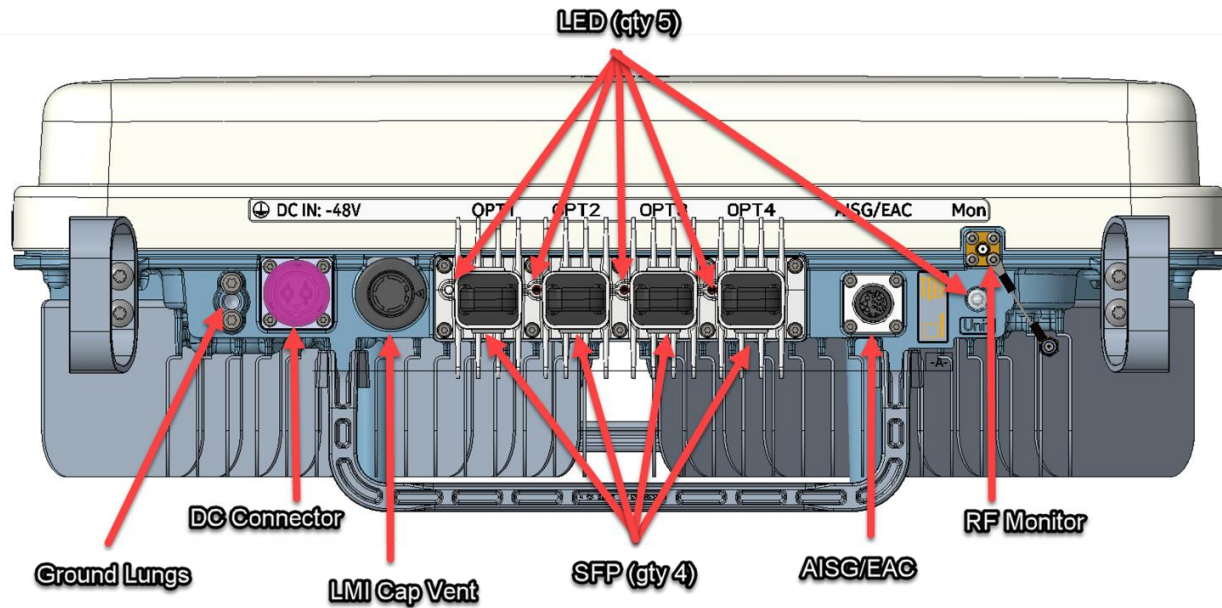
The 3GPP frequency band n41 (2496-2690 MHz) band edge NR-ARFCNs for 5G NR channel bandwidths (33, 34, 38, 38.5, 44, 49, 49.5, 55, 57.5, 86 MHz) are provided below. The NR-ARFCN is defined as New Radio - Absolute Radio Frequency Channel Number. The Slim Carrier bandwidths use the same center channel at Band Edge as their perspective base bandwidths from which they are derived. Original base bandwidth details can be referenced within the original Report-NOKI0079.1.

PRODUCT DESCRIPTION

| 5G NR NR- ARFCN | Frequency (MHz) | Slim Carrier 5G NR Channel Bandwidth in MHz | | | | | | | | | |
|-----------------------|--------------------|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | 33 | 34 | 38 | 38.5 | 44 | 49 | 49.5 | 55 | 57.5 | 86 |
| Band Edge | 2496.00 | Lower Band Edge | | | | | | | | | |
| | | | | | | | | | | | |
| 500202 | 2501.01 | | | | | | | | | | |
| | | | | | | | | | | | |
| 500700 | 2503.50 | | | | | | | | | | |
| | | | | | | | | | | | |
| 501204 | 2506.02 | | | | | | | | | | |
| | | | | | | | | | | | |
| 502200 | 2511.00 | | | | | | | | | | |
| | | | | | | | | | | | |
| 503202 | 2516.01 | Bot Ch | Bot Ch | Bot Ch | Bot Ch | | | | | | |
| | | | | | | | | | | | |
| 504204 | 2521.02 | | | | | Bot Ch | Bot Ch | Bot Ch | | | |
| | | | | | | | | | | | |
| 505200 | 2526.00 | | | | | | | | Bot Ch | Bot Ch | |
| | | | | | | | | | | | |
| 506202 | 2531.01 | | | | | | | | | | |
| | | | | | | | | | | | |
| 507204 | 2536.02 | | | | | | | | | | |
| | | | | | | | | | | | |
| 508200 | 2541.00 | | | | | | | | | | Bot Ch |
| | | | | | | | | | | | |
| 509202 | 2546.01 | | | | | | | | | | |
| | | | | | | | | | | | |
| 518598 | 2592.99 | Middle Channel | | | | | | | | | |
| | | | | | | | | | | | |
| 528000 | 2640.00 | | | | | | | | | | |
| | | | | | | | | | | | |
| 528996 | 2644.98 | | | | | | | | | | Top Ch |
| | | | | | | | | | | | |
| 529998 | 2649.99 | | | | | | | | | | |
| | | | | | | | | | | | |
| 531000 | 2655.00 | | | | | | | | | | |
| | | | | | | | | | | | |
| 531996 | 2659.98 | | | | | | | | Top Ch | Top Ch | |
| | | | | | | | | | | | |
| 532998 | 2664.99 | | | | | Top Ch | Top Ch | Top Ch | | | |
| | | | | | | | | | | | |
| 534000 | 2670.00 | Top Ch | Top Ch | Top Ch | Top Ch | | | | | | |
| | | | | | | | | | | | |
| 534996 | 2674.98 | | | | | | | | | | |
| | | | | | | | | | | | |
| 535998 | 2679.99 | | | | | | | | | | |
| | | | | | | | | | | | |
| 536496 | 2682.48 | | | | | | | | | | |
| | | | | | | | | | | | |
| 537000 | 2685.00 | | | | | | | | | | |
| | | | | | | | | | | | |
| Band Edge | 2690.00 | Upper Band Edge | | | | | | | | | |

AVHA Connector Layout

PRODUCT DESCRIPTION



AVHA External Interfaces

| Name | Initials | Purpose | # of lines | Connector type |
|----------------------------------|---------------------------------|-----------------------|---|--|
| Power Supply In | DC IN | Power Supply input | 1 | Circular plug P511466 Circular Con |
| Grounding (GND Screws) | GND | Grounding | | M8, 2 x M5 |
| LMI (Local Management Interface) | LMI | Not for field use. | | Minilink42 |
| System Interface | OPT1, OPT2, OPT3, OPT4 | eCPRI to/from FSMs | 4 x Optical | SFP+ SFP28 SFP56 optical LC-connector |
| AISG/EAC connector | AISG | Connection for AISG | 6 EAC input signals, 1 EAC output signal 1 AISG | Combined AISG / EAC mech CONNECTOR code P597765 |
| RF Monitor | Mon | To measure RF outputs | 1 | SMA(F) |

Testing Objective:

FCC radio certification of the AirScale MAA 64T64R Radio Unit variant AVHA for the Slim Carrier bandwidths designed for 5G NR TDD Single Carrier and Multi Carrier operations in the BRS/EBS Band.

CONFIGURATIONS

Test Configuration 1 (RF Conducted Testing)

| Software/Firmware Running during test | |
|---|---------------------------------|
| Description | Version |
| Radio Module Software | RF.SRM7.trunk.20250732.032 |
| BTS Software Version (25R3) | SBTS25R3_ENB_9999_250304_000008 |
| BTS Software Subset L1 Software Version | rf_l1_common_lib-25.02.R01_2 |

| Equipment being tested (include Peripherals) | | | |
|---|------------------------------|----------------------|---------------|
| Description | Manufacturer | Model/Part Number | Serial Number |
| AMIA (BTS System Module) | Nokia Solutions and Networks | 473098.102 | J8173107703 |
| ASIB (BTS System Module) | Nokia Solutions and Networks | 473764A.102 | L1224904438 |
| ABIO (BTS Base Band Module) | Nokia Solutions and Networks | 475266A.104 | DH223246457 |
| AVHA (Radio Module Model with RF adapter plate) | Nokia Solutions and Networks | 476541A.101 | L1252500217 |
| 10dB Attenuator 100 Watt | Weinschel Corp. | 48-10-34-LIM | BJ1771 |
| 1.4GHz LPF 100Watts | Microwave Circuits | L13502G1 | SN2454-01 |
| SFP28 70M MM-ENB | Nokia | P462265 | FR214716965 |
| SFP28 70M MM-RADIO | Nokia | P462265 | FR214716952 |
| Lenovo PC T490 | Lenovo | T490 | PF26RVZ0 |
| Keysight- DC System power supply | Keysight | N8757A | US21D4054S |
| FPAC (DC-pwr supply) | Nokia | 472438A.101 | G7111007146 |
| 1 Meter RF cable | rflambda | RFC6767A | AC20040005 |
| 3 Meter RF cable | Junsho | MWX241-03000KMSKMS/B | J12J105861-00 |
| (63) 25W -50ohm -Terminating Load | API Weinschel, Inc | 1427-2 | CN1829 |
| (63) 4 Meter- RF cable | CBL | CBL-10F-SMSF-402J-N | 402J-N |
| Fiber Optic cable 15m | Amphenol Fiber Optic | 995741A | VZ1701 |
| Reference cable (Frame Clock & Trigger) | Pomona | 2249 | C-72 |
| Reference cable (Frame Clock & Trigger) | Pomona | 2249 | C-48 |
| GPS sync cable | Nokia | 995426 | CA2029 |
| FYGB GPS receiver | Nokia | 472748A | 71231431 |
| CAT5e data cable (EM-PC) | ETL | E316395 | 6066M |

CONFIGURATIONS

| Cables (Peripheral) | | | | | |
|--|--------------|------------|---------------|---------------------------|-------------------|
| Description | Shield (Y/N) | Length (m) | Ferrite (Y/N) | Connection 1 | Connection 2 |
| Fiber Optic Cable | N | 15 meters | N | ABIO | AVHA |
| GPS Receiver Cable | Y | 100 meters | N | ASIB | FYGB GPS receiver |
| Cat-5e Cable | Y | 5 meters | N | ASIB | WebEM- PC |
| Reference cables (Frame Clock & Trigger) | Y | 1 meter | N | ASIB | Analyzer |
| CBL RF-Cable – RF Load Cables (63) | Y | 4 meters | N | EUT [AVHA] Ant ports 2-64 | 25W -50ohm- Load |

| Cables | | | | | |
|-------------------------|--------------|------------|---------------|-------------------------|----------------------------|
| Description | Shield (Y/N) | Length (m) | Ferrite (Y/N) | Connection 1 | Connection 2 |
| RF cable Junsho | Y | 3 meters | N | EUT [AVHA] TAB port #1 | Attenuator 100W/10dB |
| Attenuator 100W/10dB | Y | NA | N | 2-meter RF cable Junsho | 10MHz-1.4GHz LPF Filter |
| 10MHz-1.4GHz LPF Filter | N | NA | N | Attenuator 100W/10dB | 1-meter RF cable RF-Lambda |
| RF cable RF-Lambda | Y | 1 meter | N | 10MHz-1.4GHz LPF Filter | Analyzer |

RF Test Setup Diagram:

Conducted Spurious Emissions Test Setup for 9kHz to 150kHz, 150kHz to 20MHz.



CONFIGURATIONS

Test Configuration 2 (RF Conducted Testing)

| Software/Firmware Running during test | |
|---|---------------------------------|
| Description | Version |
| Radio Module Software | RF.SRM7.trunk.20250732.032 |
| BTS Software Version (25R3) | SBTS25R3_ENB_9999_250304_000008 |
| BTS Software Subset L1 Software Version | rf_l1_common_lib-25.02.R01_2 |

| Equipment being tested (include Peripherals) | | | |
|---|------------------------------|----------------------|---------------|
| Description | Manufacturer | Model/Part Number | Serial Number |
| AMIA (BTS System Module) | Nokia Solutions and Networks | 473098.102 | J8173107703 |
| ASIB (BTS System Module) | Nokia Solutions and Networks | 473764A.102 | L1224904438 |
| ABIO (BTS Base Band Module) | Nokia Solutions and Networks | 475266A.104 | DH223246457 |
| AVHA (Radio Module Model with RF adapter plate) | Nokia Solutions and Networks | 476541A.101 | L1252500217 |
| Attenuator 250W/40dB | API Weinschel | 58-40-33 | UN619 |
| SFP28 70M MM-ENB | Nokia | P462265 | FR214716965 |
| SFP28 70M MM-RADIO | Nokia | P462265 | FR214716952 |
| Lenovo PC T490 | Lenovo | T490 | PF26RVZ0 |
| Keysight- DC System power supply | Keysight | N8757A | US21D4054S |
| FPAC (DC-pwr supply) | Nokia | 472438A.101 | G7111007146 |
| 1 Meter RF cable | rflambda | RFC6767A | AC20040005 |
| 3 Meter RF cable | Junsho | MWX241-03000KMSKMS/B | J12J105861-00 |
| (63) 25W -50ohm -Terminating Load | API Weinschel, Inc | 1427-2 | CN1829 |
| (63) 4 Meter- RF cable | CBL | CBL-10F-SMSF-402J-N | 402J-N |
| Fiber Optic cable 15m | Amphenol Fiber Optic | 995741A | VZ1701 |
| Reference cable (Frame Clock & Trigger) | Pomona | 2249 | C-72 |
| Reference cable (Frame Clock & Trigger) | Pomona | 2249 | C-48 |
| GPS sync cable | Nokia | 995426 | CA2029 |
| FYGB GPS receiver | Nokia | 472748A | 71231431 |
| CAT5e data cable (EM-PC) | ETL | E316395 | 6066M |

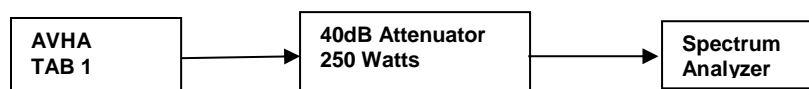
CONFIGURATIONS

| Cables (Peripheral) | | | | | |
|--|--------------|------------|---------------|---------------------------|-------------------|
| Description | Shield (Y/N) | Length (m) | Ferrite (Y/N) | Connection 1 | Connection 2 |
| Fiber Optic Cable | N | 15 meters | N | ABIO | AVHA |
| GPS Receiver Cable | Y | 100 meters | N | ASIB | FYGB GPS receiver |
| Cat-5e Cable | Y | 5 meters | N | ASIB | WebEM- PC |
| Reference cables (Frame Clock & Trigger) | Y | 1 meter | N | ASIB | Analyzer |
| CBL RF-Cable – RF Load Cables (63) | Y | 4 meters | N | EUT [AVHA] Ant ports 2-64 | 25W -50ohm- Load |

| Cables | | | | | |
|----------------------|--------------|------------|---------------|------------------------|----------------------|
| Description | Shield (Y/N) | Length (m) | Ferrite (Y/N) | Connection 1 | Connection 2 |
| RF cable Junsho | Y | 3 meters | N | EUT [AVHA] TAB port #1 | Attenuator 250W/40dB |
| Attenuator 250W/40dB | N | NA | N | RF cable Junsho | RF cable RF-Lambda |
| RF cable RF-Lambda | Y | 1 meter | N | Attenuator 250W/40dB | Analyzer |

RF Test Setup Diagram:

Conducted Spurious Emissions Test Setup for 20MHz to 4GHz



CONFIGURATIONS

Test Configuration 3 (RF Conducted Testing)

| Software/Firmware Running during test | |
|---|---------------------------------|
| Description | Version |
| Radio Module Software | RF.SRM7.trunk.20250732.032 |
| BTS Software Version (25R3) | SBTS25R3_ENB_9999_250304_000008 |
| BTS Software Subset L1 Software Version | rf_l1_common_lib-25.02.R01_2 |

| Equipment being tested (include Peripherals) | | | |
|---|------------------------------|----------------------|---------------|
| Description | Manufacturer | Model/Part Number | Serial Number |
| AMIA (BTS System Module) | Nokia Solutions and Networks | 473098.102 | J8173107703 |
| ASIB (BTS System Module) | Nokia Solutions and Networks | 473764A.102 | L1224904438 |
| ABIO (BTS Base Band Module) | Nokia Solutions and Networks | 475266A.104 | DH223246457 |
| AVHA (Radio Module Model with RF adapter plate) | Nokia Solutions and Networks | 476541A.101 | L1252500217 |
| Attenuator 150W/20dB | AeroflexWeinschel | 66-20-33 | BZ1165 |
| High Pass Filter 3.2-18GHz/15W | Microwave Circuits, Inc. | RHPF23G03G18 | 20121400043 |
| SFP28 70M MM-ENB | Nokia | P462265 | FR214716965 |
| SFP28 70M MM-RADIO | Nokia | P462265 | FR214716952 |
| Lenovo PC T490 | Lenovo | T490 | PF26RVZ0 |
| Keysight- DC System power supply | Keysight | N8757A | US21D4054S |
| FPAC (DC-pwr supply) | Nokia | 472438A.101 | G7111007146 |
| 1 Meter RF cable | RF-Lambda | RFC6767A | AC20040005 |
| 3 Meter RF cable | Junsho | MWX241-03000KMSKMS/B | J12J105861-00 |
| (63) 25W -50ohm -Terminating Load | API Weinschel, Inc | 1427-2 | CN1829 |
| (63) 4 Meter- RF cable | CBL | CBL-10F-SMSF-402J-N | 402J-N |
| Fiber Optic cable 15m | Amphenol Fiber Optic | 995741A | VZ1701 |
| Reference cable (Frame Clock & Trigger) | Pomona | 2249 | C-72 |
| Reference cable (Frame Clock & Trigger) | Pomona | 2249 | C-48 |
| GPS sync cable | Nokia | 995426 | CA2029 |
| FYGB GPS receiver | Nokia | 472748A | 71231431 |
| CAT5e data cable (EM-PC) | ETL | E316395 | 6066M |

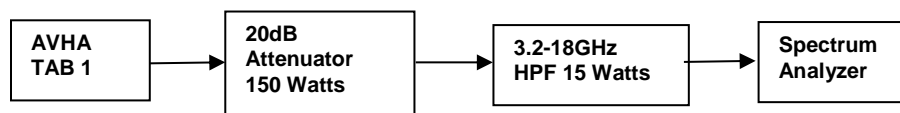
CONFIGURATIONS

| Cables (Peripheral) | | | | | |
|--|--------------|------------|---------------|---------------------------|-------------------|
| Description | Shield (Y/N) | Length (m) | Ferrite (Y/N) | Connection 1 | Connection 2 |
| Fiber Optic Cable | N | 15 meters | N | ABIO | AVHA |
| GPS Receiver Cable | Y | 100 meters | N | ASIB | FYGB GPS receiver |
| Cat-5e Cable | Y | 5 meters | N | ASIB | WebEM- PC |
| Reference cables (Frame Clock & Trigger) | Y | 1 meter | N | ASIB | Analyzer |
| CBL RF-Cable – RF Load Cables (63) | Y | 4 meters | N | EUT [AVHA] Ant ports 2-64 | 25W -50ohm- Load |

| Cables | | | | | |
|--------------------------|--------------|------------|---------------|--------------------------|----------------------------|
| Description | Shield (Y/N) | Length (m) | Ferrite (Y/N) | Connection 1 | Connection 2 |
| RF cable Junsho | Y | 3 meters | N | EUT [AVHA] TAB port #1 | Attenuator 150W/20dB |
| Attenuator 150W/20dB | N | NA | N | RF cable Junsho 3 Meters | 3.2 – 18GHz HPF 15 Watts |
| 3.2 – 18GHz HPF 15 Watts | N | NA | N | Attenuator 150W/20dB | RF cable RF-Lambda 1 Meter |
| RF cable RF-Lambda | Y | 1 meter | N | 3.2 – 18GHz HPF 15 Watts | Analyzer |

RF Test Setup Diagram:

Conducted Spurious Emissions Test Setup for 4GHz to 18GHz



CONFIGURATIONS

Test Configuration 4 (RF Conducted Testing)

| Software/Firmware Running during test | |
|---|---------------------------------|
| Description | Version |
| Radio Module Software | RF.SRM7.trunk.20250732.032 |
| BTS Software Version (25R3) | SBTS25R3_ENB_9999_250304_000008 |
| BTS Software Subset L1 Software Version | rf_l1_common_lib-25.02.R01_2 |

| Equipment being tested (include Peripherals) | | | |
|---|------------------------------|----------------------|---------------|
| Description | Manufacturer | Model/Part Number | Serial Number |
| AMIA (BTS System Module) | Nokia Solutions and Networks | 473098.102 | J8173107703 |
| ASIB (BTS System Module) | Nokia Solutions and Networks | 473764A.102 | L1224904438 |
| ABIO (BTS Base Band Module) | Nokia Solutions and Networks | 475266A.104 | DH223246457 |
| AVHA (Radio Module Model with RF adapter plate) | Nokia Solutions and Networks | 476541A.101 | L1252500217 |
| Attenuator 50W/10dB | AeroflexWeinschel | RFS50G26S10FF | 20031701 |
| High Pass Filter 8-40GHz/15W | RF-Lambda | RHPF23G08G40 | 17102700016 |
| SFP28 70M MM-ENB | Nokia | P462265 | FR214716965 |
| SFP28 70M MM-RADIO | Nokia | P462265 | FR214716952 |
| Lenovo PC T490 | Lenovo | T490 | PF26RVZ0 |
| Keysight- DC System power supply | Keysight | N8757A | US21D4054S |
| FPAC (DC-pwr supply) | Nokia | 472438A.101 | G7111007146 |
| 1 Meter RF cable | rflambda | RFC6767A | AC20040005 |
| 3 Meter RF cable | Junsho | MWX241-03000KMSKMS/B | J12J105861-00 |
| (63) 25W -50ohm -Terminating Load | API Weinschel, Inc | 1427-2 | CN1829 |
| (63) 4 Meter- RF cable | CBL | CBL-10F-SMSF-402J-N | 402J-N |
| Fiber Optic cable 15m | Amphenol Fiber Optic | 995741A | VZ1701 |
| Reference cable (Frame Clock & Trigger) | Pomona | 2249 | C-72 |
| Reference cable (Frame Clock & Trigger) | Pomona | 2249 | C-48 |
| GPS sync cable | Nokia | 995426 | CA2029 |
| FYGB GPS receiver | Nokia | 472748A | 71231431 |
| CAT5e data cable (EM-PC) | ETL | E316395 | 6066M |

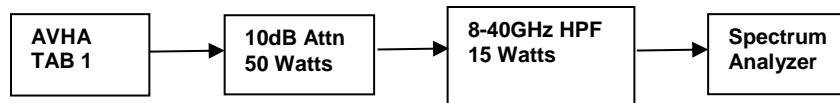
CONFIGURATIONS

| Cables (Peripheral) | | | | | |
|--|--------------|------------|---------------|---------------------------|-------------------|
| Description | Shield (Y/N) | Length (m) | Ferrite (Y/N) | Connection 1 | Connection 2 |
| Fiber Optic Cable | N | 15 meters | N | ABIO | AVHA |
| GPS Receiver Cable | Y | 100 meters | N | ASIB | FYGB GPS receiver |
| Cat-5e Cable | Y | 5 meters | N | ASIB | WebEM- PC |
| Reference cables (Frame Clock & Trigger) | Y | 1 meter | N | ASIB | Analyzer |
| CBL RF-Cable – RF Load Cables (63) | Y | 4 meters | N | EUT [AVHA] Ant ports 2-64 | 25W -50ohm- Load |

| Cables | | | | | |
|------------------------------|--------------|------------|---------------|------------------------------|------------------------------|
| Description | Shield (Y/N) | Length (m) | Ferrite (Y/N) | Connection 1 | Connection 2 |
| RF cable Junsho | Y | 3 meters | N | EUT [AVHA] TAB port #1 | Attenuator 50W/10dB |
| Attenuator 50W/10dB | N | NA | N | RF cable Junsho | High Pass Filter 8-40GHz/15W |
| High Pass Filter 8-40GHz/15W | N | NA | N | Attenuator 50W/10dB | RF-Lambda cable |
| RF-Lambda cable | Y | 1 meter | N | High Pass Filter 8-40GHz/15W | Analyzer |

RF Test Setup Diagram:

Conducted Spurious Emissions Test Setup for 18GHz to 27GHz



MODIFICATIONS

Equipment Modifications

| Item | Date | Test | Modification | Note | Disposition of EUT |
|------|------------|----------------------------------|--------------------------------------|---|---|
| 1 | 2025-08-15 | Average Power | Tested as delivered to test Station. | No EMI suppression devices were added or modified during this test. | EUT remained at Element following the test. |
| 2 | 2025-08-15 | Peak to Average Power (PAPR)CCDF | Tested as delivered to test Station. | No EMI suppression devices were added or modified during this test. | EUT remained at Element following the test. |
| 3 | 2025-08-15 | Occupied Bandwidth | Tested as delivered to test Station. | No EMI suppression devices were added or modified during this test. | EUT remained at Element following the test. |
| 4 | 2025-08-18 | Band Edge Compliance | Tested as delivered to Test Station. | No EMI suppression devices were added or modified during this test. | EUT remained at Element following the test. |
| 5 | 2025-08-19 | Spurious Conducted Emissions | Tested as delivered to Test Station. | No EMI suppression devices were added or modified during this test. | Scheduled testing was completed. |

AVERAGE POWER AND EIRP CALCULATIONS



TEST DESCRIPTION

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

The fundamental emission Output Power (maximum average conducted output power) was measured using the channels and modes as called out on the following data sheets. The transmit power was set to its default maximum.

RF conducted emissions testing was performed on only one port. The AVHA antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as shown within the original report NOKI0079.1 certification testing). Antenna port 1 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraphs 5.2.5.3, 5.7.2i and 6.4.

The RMS average power measurement method for FCC is detailed in section 5.2 of KDB 971168 D01v03r01 and ANSI C63.26-2015 section 5.2.4.4. Measurements shall be performed at full power on the channel(s) and bandwidth(s) specified in this report.

The output power was measured for a single carrier over the carrier channel bandwidth. The total output power for multiport (64x64 MIMO) operations was determined based per ANSI C63.26 clauses 6.4.3.1 and 6.4.3.2.4 ($10 \log N_{out}$). The total output power for Sixty-Four port operation is single power +18.1 dB [i.e. $10 \log(64)$].

All Measurements were synchronized with the measurement receiver - gated with external trigger input (frame clock (100Hz) provided by the system module. Duty cycle correction is not needed for this testing since the transmit "on" time is synchronized with the measurement receiver.

FCC Requirements: §27.50 Power limits and duty cycle.

27.50 (h)(ii) The following power requirements apply to stations transmitting in the BRS/EBS band:

If a main or booster station sectorizes or otherwise uses one or more transmitting antennas with a non-omnidirectional horizontal plane radiation pattern, the maximum EIRP in dBW in a given direction shall be determined by the following formula: $EIRP = 33 \text{ dBW} + 10 \log(X/Y) \text{ dBW} + 10 \log(360/\text{beamwidth}) \text{ dBW}$, where X is the actual channel width in MHz, Y is either (i) 6 MHz if prior to transition or the station is in the MBS following transition or (ii) 5.5 MHz if the station is in the LBS and UBS following transition, and beamwidth is the total horizontal plane beamwidth of the individual transmitting antenna for the station or any sector measured at the half-power points.

AVERAGE POWER AND EIRP CALCULATIONS

5G NR EIRP Calculations for Sixty-four Port MIMO Operations

EIRP calculations are needed at each transmitter location to optimize base station operational performance while meeting regulatory requirements. Each cell site installation needs to consider the power measurements in the radio certification report as well as site specific regulatory requirements (such as antenna height, population density, etc.), site installation parameters (line loss between antenna and radio, antenna parameters, etc.) and base station operational parameters (MIMO operational setup, carrier power level, channel bandwidth, modulation type, etc.) to optimize performance. Transmitter output power may be reduced within the parameters of the base station configuration.

The AVHA antenna assembly has an array of 4 rows and 8 columns of ($\pm 45^\circ$) cross-polarized (orthogonal) radiators. This antenna assembly has a maximum beamforming gain of 26.0dBi. The sixty-four AVHA transmitter outputs are connected to the antenna array (thirty-two are connected to $+45^\circ$ radiators/antennas and thirty-two are connected to the -45° radiators/antennas).

Equivalent Isotropically Radiated Power (EIRP) is calculated (as specified in ANSI C63.26-2015 section 6.4 for a system of correlated output signals) from the results of power measurements (highest measured average power for each channel bandwidth type). The maximum antenna assembly beamforming gain was used for this calculation. Calculations of worst-case EIRP for sixty-four port MIMO are as follows:

| Parameter | 33MHz Ch BW | 34MHz Ch BW | 38MHz Ch BW | 38.5MHz Ch BW | 44MHz Ch BW | 49MHz Ch BW | 49.5MHz Ch BW | 55MHz Ch BW | 57.5MHz Ch BW | 86MHz Ch BW |
|-------------------------------------|----------------|----------------|----------------|------------------|----------------|----------------|------------------|----------------|------------------|----------------|
| Power per Antenna Port | 34.4 dBm | 34.5 dBm | 34.5 dBm | 34.5 dBm | 35.5 dBm | 35.5 dBm | 35.5 dBm | 36.4 dBm | 36.3 dBm | 37.4 dBm |
| Ant Ports per | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 |
| Polarization (+15.1dB) | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 |
| Total Power per Pol | 49.5 dBm | 49.6 dBm | 49.6 dBm | 49.6 dBm | 50.6 dBm | 50.6 dBm | 50.6 dBm | 51.5 dBm | 51.4 dBm | 52.5 dBm |
| Max Ant Beamforming Gain per Pol | 26.0dBi | 26.0dBi | 26.0dBi | 26.0dBi | 26.0dBi | 26.0dBi | 26.0dBi | 26.0dBi | 26.0dBi | 26.0dBi |
| EIRP per Polarization | 75.5 dBm | 75.6 dBm | 75.6 dBm | 75.6 dBm | 76.6 dBm | 76.6 dBm | 76.6 dBm | 77.5 dBm | 77.4 dBm | 78.5 dBm |
| Number of Polarizations | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| EIRP Total (See Note 1) | 75.5 dBm | 75.6 dBm | 75.6 dBm | 75.6 dBm | 76.6 dBm | 76.6 dBm | 76.6 dBm | 77.5 dBm | 77.4 dBm | 78.5 dBm |
| EIRP Limit Calculation (See Note 2) | 84.2 dBm | 84.3 dBm | 84.8 dBm | 84.8 dBm | 85.4 dBm | 85.9 dBm | 85.9 dBm | 86.4 dBm | 86.6 dBm | 88.3 dBm |

Note 1: The EIRP per antenna polarity is required to be below the regulatory limit as described in ANSI C63.26-2015 section 6.4.6.3 b)2) and KDB 662911 D02v01 page 3 example (2) since the two transmitter outputs to each antenna are 90 degree-phase shifted relative to each other (cross-polarized radiators).

Note 2: The EIRP limit is defined by FCC part 27.50(h)(ii) as $33\text{dBW} + 10\text{Log}(X/Y) \text{ dBW} + 10 \text{log}(360/\text{beamwidth}) \text{ dBW}$ where X is the channel width in MHz and Y is 5.5 or 6MHz. The AVHA antenna horizontal beamwidth is 13 ± 2 degrees or a maximum of 15 degrees. Y was selected to be 6MHz for this calculation.

Calculation Summary

The worst-case AVHA sixty-four port MIMO EIRP levels for all of the new Slim Carrier channel bandwidths are less than the FCC regulatory limits.

AVERAGE POWER AND EIRP CALCULATIONS

TEST EQUIPMENT

| Description | Manufacturer | Model | ID | Last Cal. | Cal. Due |
|------------------------------|-----------------------|--------|-----|------------|------------|
| Analyzer - Spectrum Analyzer | Keysight Technologies | N9030B | AGA | 2025-06-09 | 2026-06-09 |
| Block - DC | Centric RF | C0140 | ANJ | NCR | NCR |
| Generator - Signal | Agilent | N5173B | TIW | 2023-08-07 | 2026-08-07 |

Note: The RF Test Setup/ Network (RF cables/Attenuators/filter/etc.) is defined in the configurations section for each test. The RF Test Setup/Network is calibrated using the signal generator and spectrum analyzer prior to test. The RF insertion loss of the RF Test Setup/Network is accounted for by the spectrum analyzer's reference level offset during the RF conducted testing.

AVERAGE POWER AND EIRP CALCULATIONS



| | | | |
|-------------------|---|-----------------------|------------|
| EUT: | Airscale Base Transceiver Station Radio Unit Model AVHA | Work Order: | NOKI0087 |
| Serial Number: | L1252500217 | Date: | 2025-08-14 |
| Customer: | Nokia Solutions and Networks | Temperature: | 27.3°C |
| Attendees: | Mitch Hill, John Rattavong | Relative Humidity: | 41.4% |
| Customer Project: | None | Bar. Pressure (PMSL): | 1017 mbar |
| Tested By: | Jarrod Brenden | Job Site: | PT14 |
| Power: | 54VDC | Configuration: | NOKI0087-2 |

COMMENTS

All losses in the measurement path were accounted for in the reference level offset; attenuators, filters, cables, and DC blocks.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass

Tested By

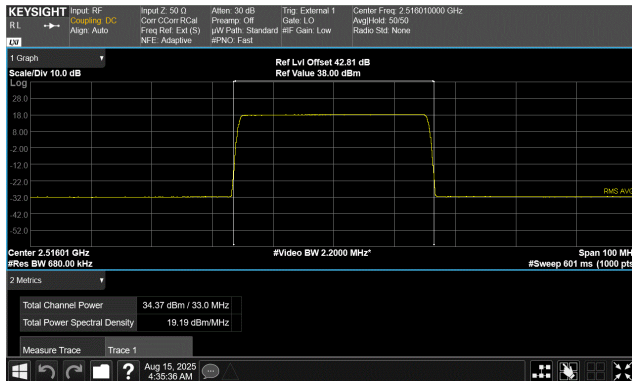
TEST RESULTS

| | Avg Cond Pwr (dBm) | Duty Cycle Factor (dB) | Single Port dBm/Carrier BW | Sixty-four Port (64x64 MIMO) dBm/carrier BW |
|---------------------------------|-----------------------|---------------------------|-------------------------------|--|
| Port 1 | | | | |
| 40 MHz Base Channel Bandwidth | | | | |
| 33.0 MHz Slim Carrier Bandwidth | | | | |
| QPSK Modulation | | | | |
| Low Channel, 2516.01 MHz | 34.37 | 0 | 34.4 | 52.5 |
| Middle Channel, 2592.99 MHz | 34.196 | 0 | 34.2 | 52.3 |
| High Channel, 2670.0 MHz | 34.237 | 0 | 34.2 | 52.3 |
| 34.0 MHz Slim Carrier Bandwidth | | | | |
| QPSK Modulation | | | | |
| Low Channel, 2516.01 MHz | 34.459 | 0 | 34.5 | 52.6 |
| Middle Channel, 2592.99 MHz | 34.257 | 0 | 34.3 | 52.4 |
| High Channel, 2670.0 MHz | 34.271 | 0 | 34.3 | 52.4 |
| 38.0 MHz Slim Carrier Bandwidth | | | | |
| QPSK Modulation | | | | |
| Low Channel, 2516.01 MHz | 34.465 | 0 | 34.5 | 52.6 |
| Middle Channel, 2592.99 MHz | 34.28 | 0 | 34.3 | 52.4 |
| High Channel, 2670.0 MHz | 34.292 | 0 | 34.3 | 52.4 |
| 38.5 MHz Slim Carrier Bandwidth | | | | |
| QPSK Modulation | | | | |
| Low Channel, 2516.01 MHz | 34.461 | 0 | 34.5 | 52.6 |
| Middle Channel, 2592.99 MHz | 34.303 | 0 | 34.3 | 52.4 |
| High Channel, 2670.0 MHz | 34.317 | 0 | 34.3 | 52.4 |

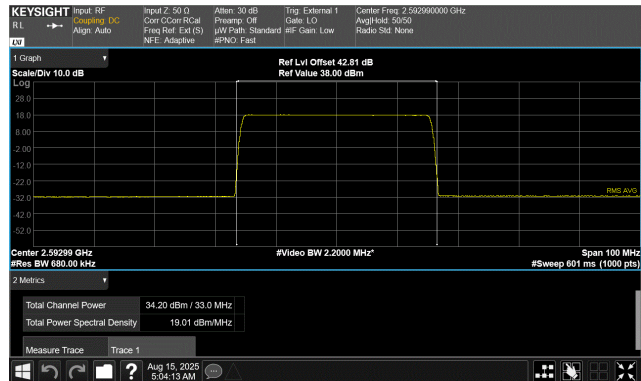
AVERAGE POWER AND EIRP CALCULATIONS

| | Avg Cond Pwr (dBm) | Duty Cycle Factor (dB) | Single Port dBm/Carrier BW | Sixty-four Port (64x64 MIMO) dBm/carrier BW |
|---------------------------------|-----------------------|---------------------------|-------------------------------|--|
| 50 MHz Base Channel Bandwidth | | | | |
| 44.0 MHz Slim Carrier Bandwidth | | | | |
| QPSK Modulation | | | | |
| Low Channel, 2521.02 MHz | 35.528 | 0 | 35.5 | 53.6 |
| Middle Channel, 2592.99 MHz | 35.377 | 0 | 35.4 | 53.5 |
| High Channel, 2664.99 MHz | 35.383 | 0 | 35.4 | 53.5 |
| 49.0 MHz Slim Carrier Bandwidth | | | | |
| QPSK Modulation | | | | |
| Low Channel, 2521.02 MHz | 35.505 | 0 | 35.5 | 53.6 |
| Middle Channel, 2592.99 MHz | 35.336 | 0 | 35.3 | 53.4 |
| High Channel, 2664.99 MHz | 35.363 | 0 | 35.4 | 53.5 |
| 49.5 MHz Slim Carrier Bandwidth | | | | |
| QPSK Modulation | | | | |
| Low Channel, 2521.02 MHz | 35.503 | 0 | 35.5 | 53.6 |
| Middle Channel, 2592.99 MHz | 35.292 | 0 | 35.3 | 53.4 |
| High Channel, 2664.99 MHz | 35.325 | 0 | 35.3 | 53.4 |
| 60 MHz Base Channel Bandwidth | | | | |
| 55.0 MHz Slim Carrier Bandwidth | | | | |
| QPSK Modulation | | | | |
| Low Channel, 2562.00 MHz | 36.355 | 0 | 36.4 | 54.5 |
| Middle Channel, 2592.99 MHz | 36.106 | 0 | 36.1 | 54.2 |
| High Channel, 2659.98 MHz | 36.136 | 0 | 36.1 | 54.2 |
| 57.5 MHz Slim Carrier Bandwidth | | | | |
| QPSK Modulation | | | | |
| Low Channel, 2562.00 MHz | 36.308 | 0 | 36.3 | 54.4 |
| Middle Channel, 2592.99 MHz | 36.143 | 0 | 36.1 | 54.2 |
| High Channel, 2659.98 MHz | 36.119 | 0 | 36.1 | 54.2 |
| 90 MHz Base Channel Bandwidth | | | | |
| 86.0 MHz Slim Carrier Bandwidth | | | | |
| QPSK Modulation | | | | |
| Low Channel, 2541.00 MHz | 37.364 | 0 | 37.4 | 55.5 |
| Middle Channel, 2592.99 MHz | 37.206 | 0 | 37.2 | 55.3 |
| High Channel, 2644.98 MHz | 37.179 | 0 | 37.2 | 55.3 |
| 16QAM Modulation | | | | |
| Middle Channel, 2592.99 MHz | 37.255 | 0 | 37.3 | 55.4 |
| 64QAM Modulation | | | | |
| Middle Channel, 2592.99 MHz | 37.272 | 0 | 37.3 | 55.4 |
| 256QAM Modulation | | | | |
| Middle Channel, 2592.99 MHz | 37.236 | 0 | 37.2 | 55.3 |

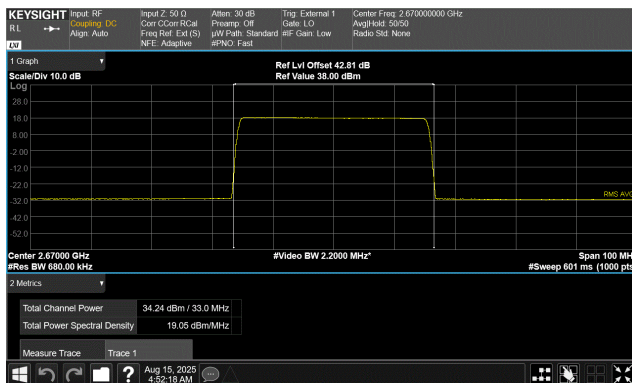
AVERAGE POWER AND EIRP CALCULATIONS



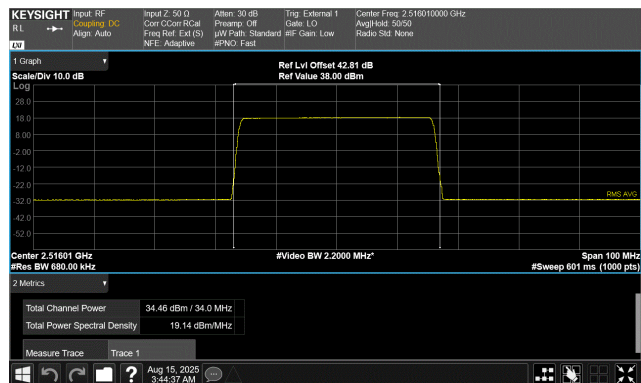
**40 MHz Base Channel Bandwidth
33.0 MHz Slim Carrier Bandwidth
QPSK Modulation
Low Channel, 2516.01 MHz**



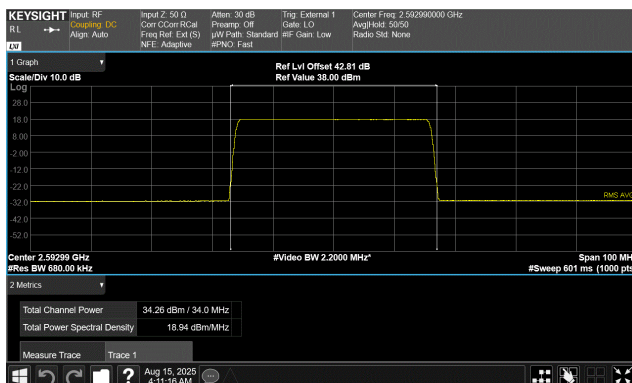
**40 MHz Base Channel Bandwidth
33.0 MHz Slim Carrier Bandwidth
QPSK Modulation
Middle Channel, 2592.99 MHz**



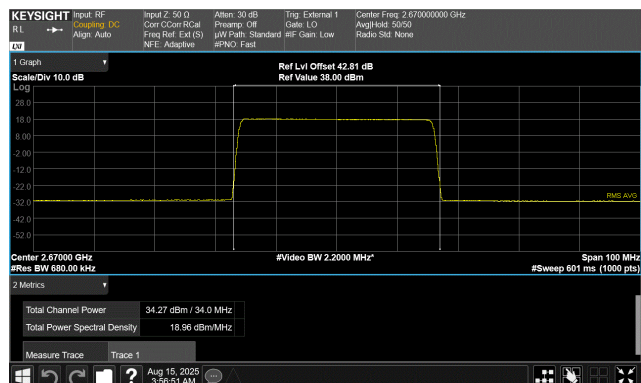
**40 MHz Base Channel Bandwidth
33.0 MHz Slim Carrier Bandwidth
QPSK Modulation
High Channel, 2670.0 MHz**



**40 MHz Base Channel Bandwidth
34.0 MHz Slim Carrier Bandwidth
QPSK Modulation
Low Channel, 2516.01 MHz**

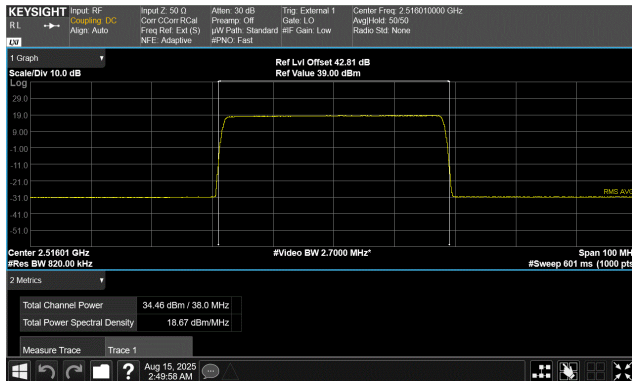


**40 MHz Base Channel Bandwidth
34.0 MHz Slim Carrier Bandwidth
QPSK Modulation
Middle Channel, 2592.99 MHz**

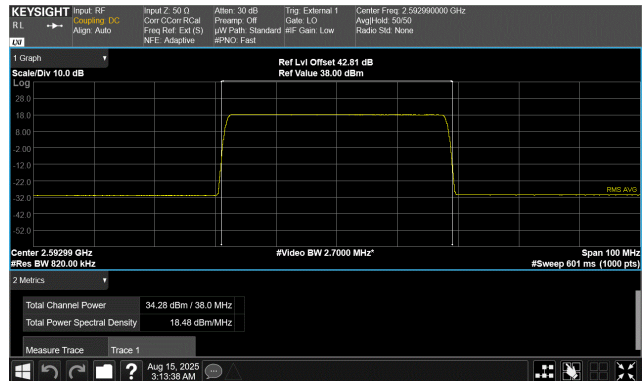


**40 MHz Base Channel Bandwidth
34.0 MHz Slim Carrier Bandwidth
QPSK Modulation
High Channel, 2670.0 MHz**

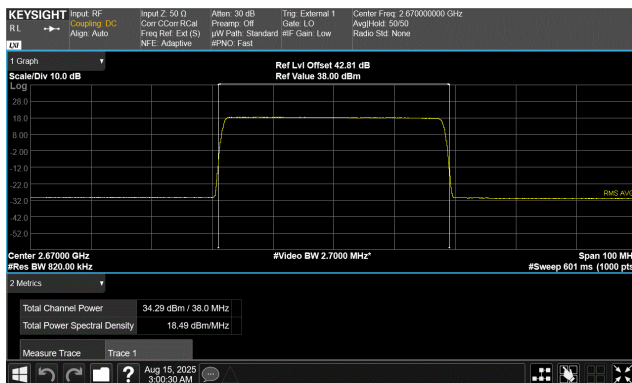
AVERAGE POWER AND EIRP CALCULATIONS



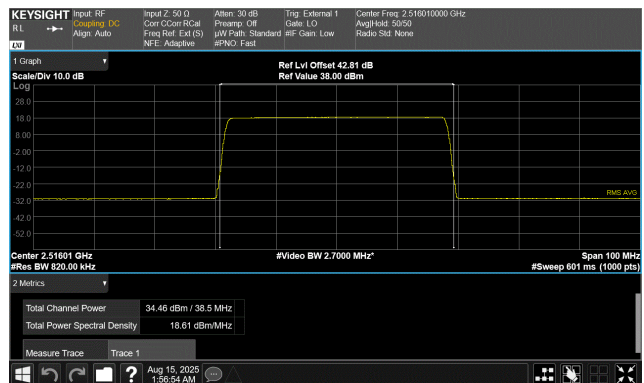
**40 MHz Base Channel Bandwidth
38.0 MHz Slim Carrier Bandwidth
QPSK Modulation
Low Channel, 2516.01 MHz**



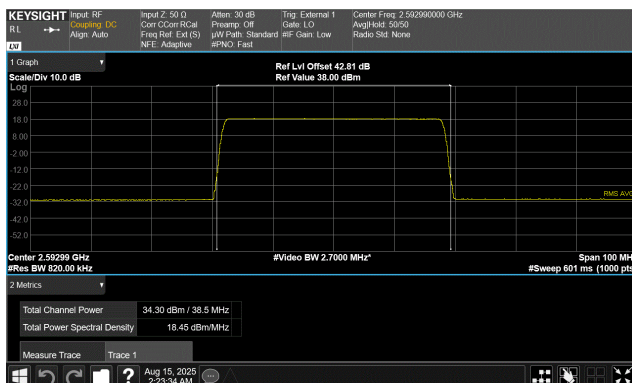
**40 MHz Base Channel Bandwidth
38.0 MHz Slim Carrier Bandwidth
QPSK Modulation
Middle Channel, 2592.99 MHz**



**40 MHz Base Channel Bandwidth
38.0 MHz Slim Carrier Bandwidth
QPSK Modulation
High Channel, 2670.0 MHz**



**40 MHz Base Channel Bandwidth
38.5 MHz Slim Carrier Bandwidth
QPSK Modulation
Low Channel, 2516.01 MHz**

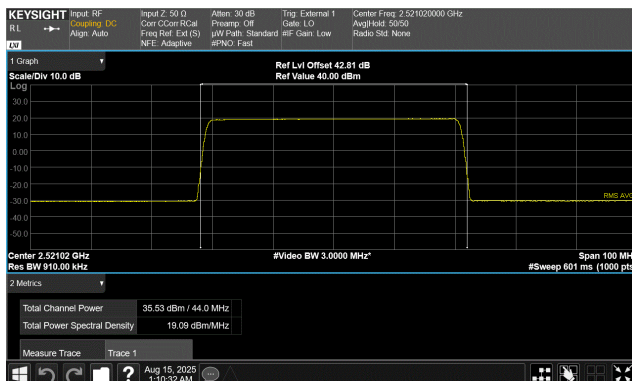


**40 MHz Base Channel Bandwidth
38.5 MHz Slim Carrier Bandwidth
QPSK Modulation
Middle Channel, 2592.99 MHz**

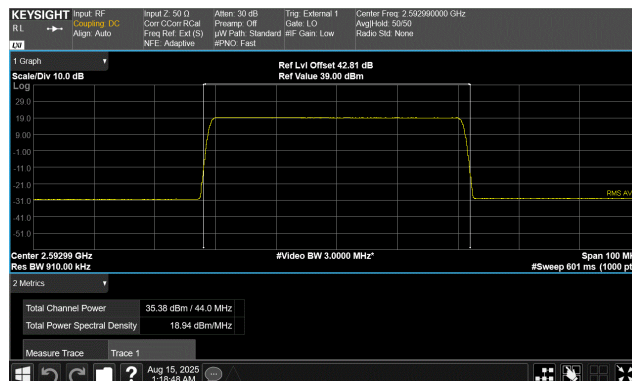


**40 MHz Base Channel Bandwidth
38.5 MHz Slim Carrier Bandwidth
QPSK Modulation
High Channel, 2670.0 MHz**

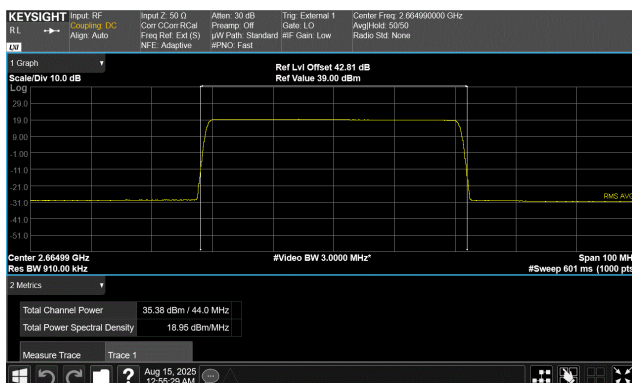
AVERAGE POWER AND EIRP CALCULATIONS



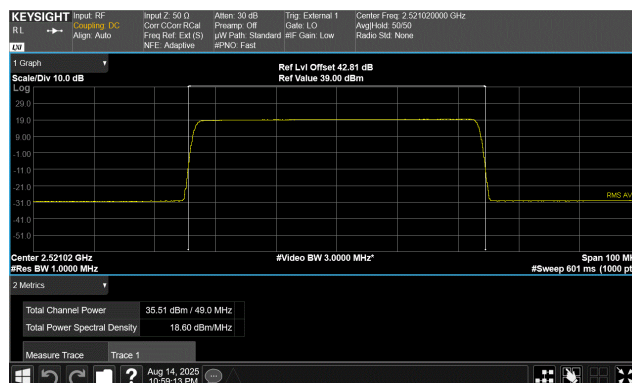
**50 MHz Base Channel Bandwidth
44.0 MHz Slim Carrier Bandwidth
QPSK Modulation
Low Channel, 2521.02 MHz**



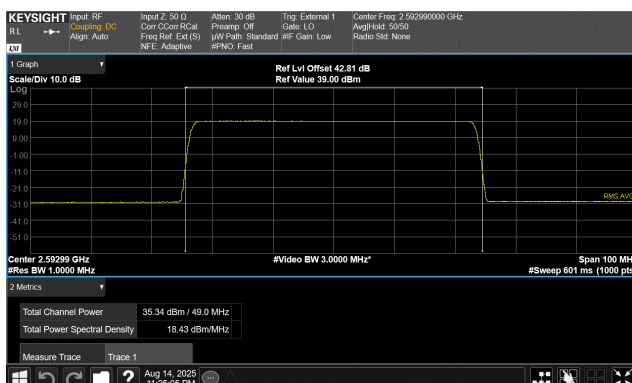
**50 MHz Base Channel Bandwidth
44.0 MHz Slim Carrier Bandwidth
QPSK Modulation
Middle Channel, 2592.99 MHz**



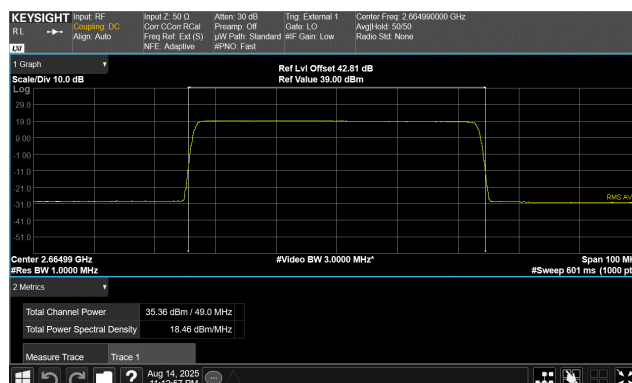
**50 MHz Base Channel Bandwidth
44.0 MHz Slim Carrier Bandwidth
QPSK Modulation
High Channel, 2664.99 MHz**



**50 MHz Base Channel Bandwidth
49.0 MHz Slim Carrier Bandwidth
QPSK Modulation
Low Channel, 2521.02 MHz**

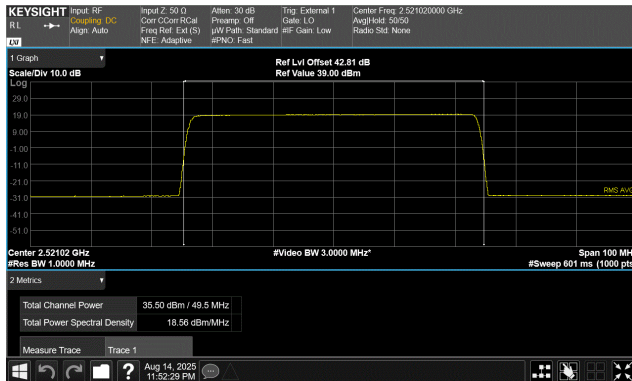


**50 MHz Base Channel Bandwidth
49.0 MHz Slim Carrier Bandwidth
QPSK Modulation
Middle Channel, 2592.99 MHz**

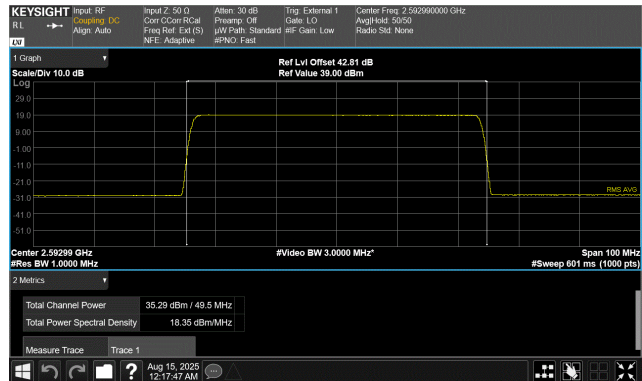


**50 MHz Base Channel Bandwidth
49.0 MHz Slim Carrier Bandwidth
QPSK Modulation
High Channel, 2664.99 MHz**

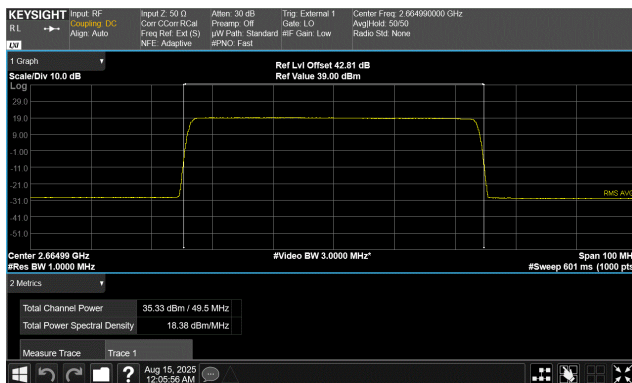
AVERAGE POWER AND EIRP CALCULATIONS



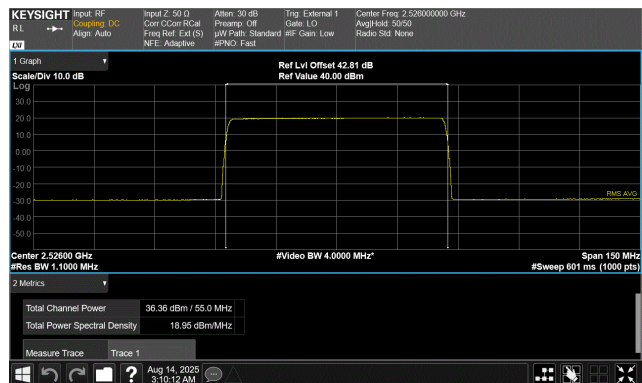
**50 MHz Base Channel Bandwidth
49.5 MHz Slim Carrier Bandwidth
QPSK Modulation
Low Channel, 2521.02 MHz**



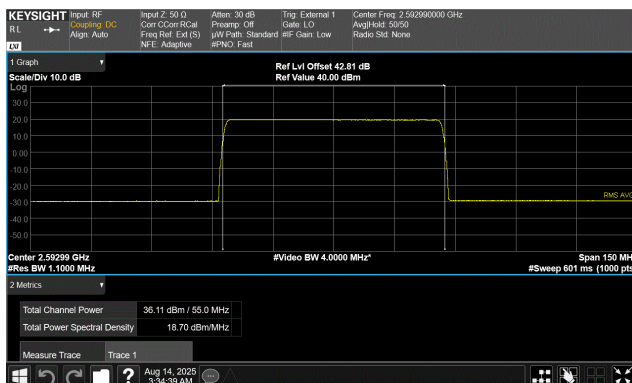
**50 MHz Base Channel Bandwidth
49.5 MHz Slim Carrier Bandwidth
QPSK Modulation
Middle Channel, 2592.99 MHz**



**50 MHz Base Channel Bandwidth
49.5 MHz Slim Carrier Bandwidth
QPSK Modulation
High Channel, 2664.99 MHz**



**60 MHz Base Channel Bandwidth
55.0 MHz Slim Carrier Bandwidth
QPSK Modulation
Low Channel, 2562.00 MHz**

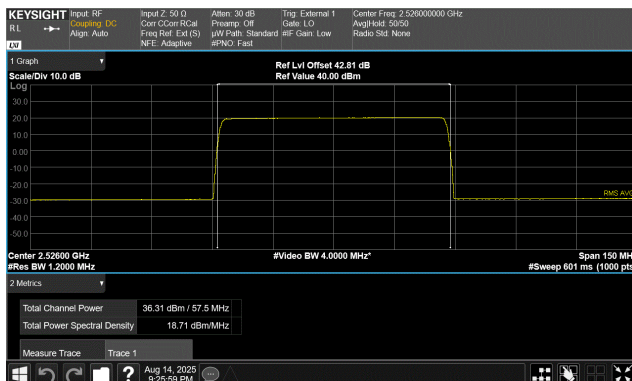


**60 MHz Base Channel Bandwidth
55.0 MHz Slim Carrier Bandwidth
QPSK Modulation
Middle Channel, 2592.99 MHz**

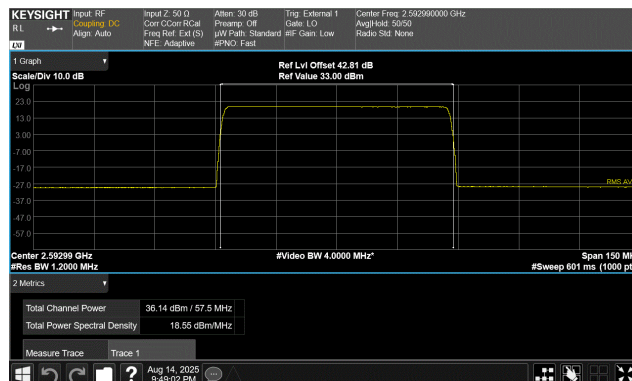


**60 MHz Base Channel Bandwidth
55.0 MHz Slim Carrier Bandwidth
QPSK Modulation
High Channel, 2659.98 MHz**

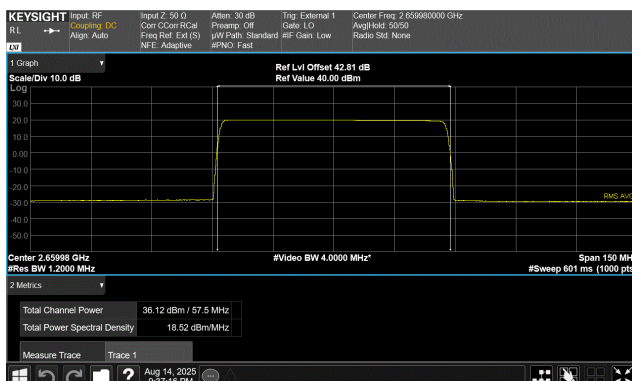
AVERAGE POWER AND EIRP CALCULATIONS



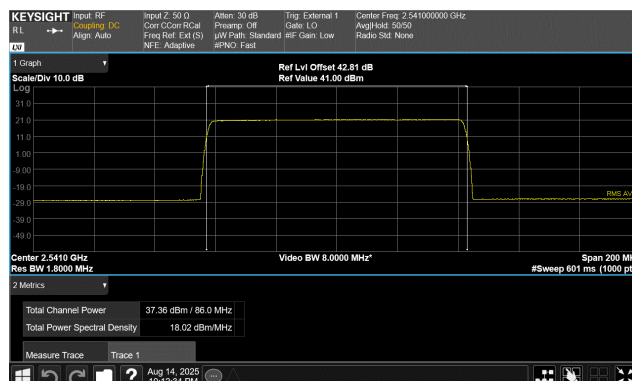
**60 MHz Base Channel Bandwidth
57.5 MHz Slim Carrier Bandwidth
QPSK Modulation
Low Channel, 2562.00 MHz**



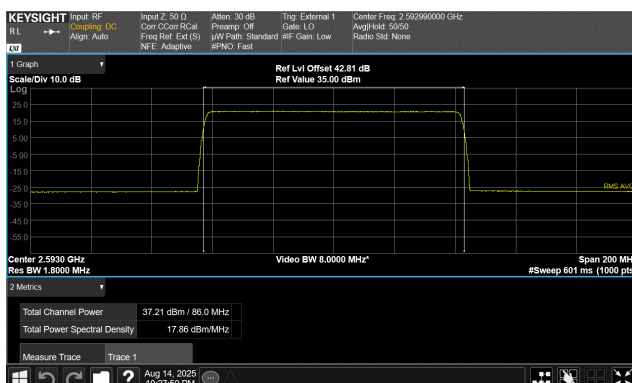
**60 MHz Base Channel Bandwidth
57.5 MHz Slim Carrier Bandwidth
QPSK Modulation
Middle Channel, 2592.99 MHz**



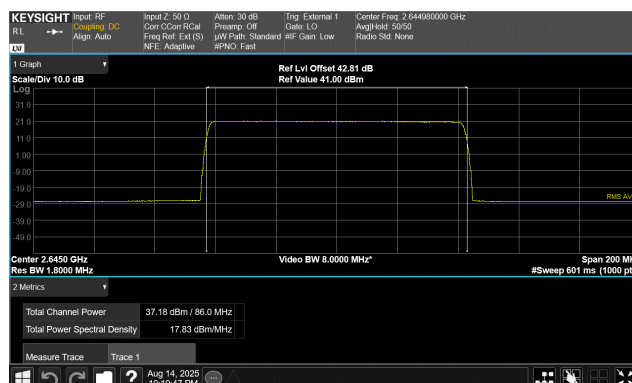
**60 MHz Base Channel Bandwidth
57.5 MHz Slim Carrier Bandwidth
QPSK Modulation
High Channel, 2659.98 MHz**



**90 MHz Base Channel Bandwidth
86.0 MHz Slim Carrier Bandwidth
QPSK Modulation
Low Channel, 2541.00 MHz**

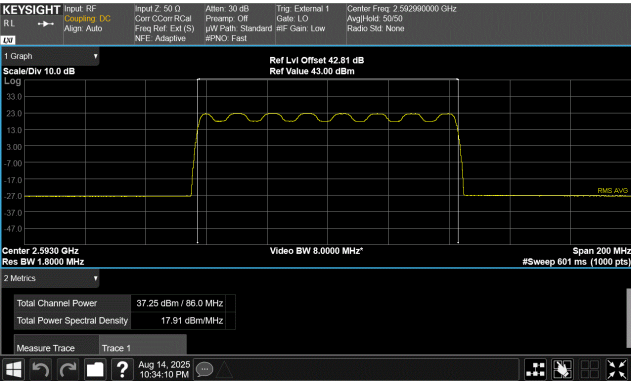


**90 MHz Base Channel Bandwidth
86.0 MHz Slim Carrier Bandwidth
QPSK Modulation
Middle Channel, 2592.99 MHz**

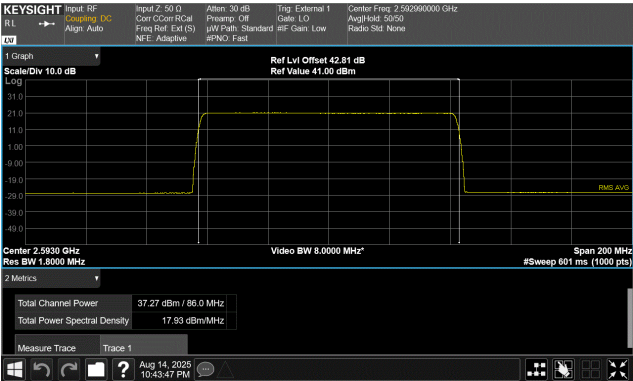


**90 MHz Base Channel Bandwidth
86.0 MHz Slim Carrier Bandwidth
QPSK Modulation
High Channel, 2644.98 MHz**

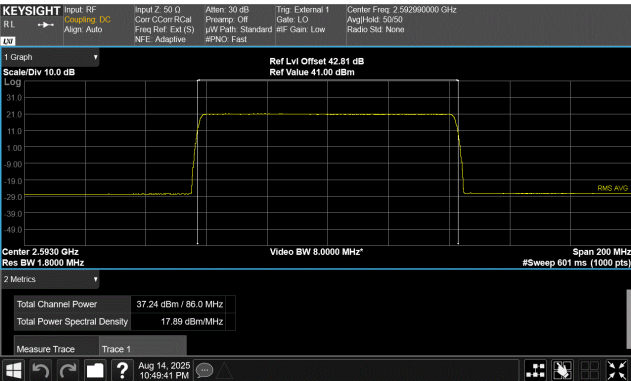
AVERAGE POWER AND EIRP CALCULATIONS



90 MHz Base Channel Bandwidth
86.0 MHz Slim Carrier Bandwidth
16QAM Modulation
Middle Channel, 2592.99 MHz



90 MHz Base Channel Bandwidth
86.0 MHz Slim Carrier Bandwidth
64QAM Modulation
Middle Channel, 2592.99 MHz



90 MHz Base Channel Bandwidth
86.0 MHz Slim Carrier Bandwidth
256QAM Modulation
Middle Channel, 2592.99 MHz

AVERAGE POWER - MULTICARRIER

TEST DESCRIPTION

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

The fundamental emission Output Power (maximum average conducted output power) was measured using the channels and modes as called out on the following data sheets. The transmit power was set to its default maximum.

RF conducted emissions testing was performed only on one port. The AVHA antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as shown within the original NOKI0079.1 certification testing). Antenna port 1 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraphs 5.2.5.3, 5.7.2i and 6.4.

The RMS average power measurement method for FCC is detailed in section 5.2 of KDB 971168 D01v03r01 and ANSI C63.26-2015 section 5.2.4.4. Measurements shall be performed at full power on the channel(s) and bandwidth(s) specified in this report.

The output power was measured for a single carrier over the carrier channel bandwidth. The total output power for multiport (64x64 MIMO) operations was determined based per ANSI C63.26 clauses 6.4.3.1 and 6.4.3.2.4 ($10 \log N_{out}$). The total output power for Sixty-Four port operation is single power +18.1 dB [i.e. $10 \log(64)$].

All Measurements were synchronized with the measurement receiver - gated with external trigger input (frame clock (100Hz) provided by the system module. Duty cycle correction is not needed for this testing since the transmit "on" time is synchronized with the measurement receiver.

Multicarrier test cases have been developed as shown below:

- a) *Multicarrier Test Case 1:* Four contiguous Slim 33MHz carriers with minimum spacing between carrier frequencies at the lower band edge (2516.01MHz, 2549.01MHz, 2582.01, 2615.01) (ARFCN=503202, 509802, 516402, 52302). The smallest channel bandwidth is selected to maximize carrier power spectral density. The maximum number of carriers per radio is 4. The carriers are operated at maximum power per Multi Slim carrier [1.29W/ 31.1dBm].
- b) *Multicarrier Test Case 2:* Four contiguous Slim 33MHz carriers with minimum spacing between carrier frequencies at the upper band edge (2571MHz, 2604MHz, 2637MHz, 2670MHz) (ARFCN=514200, 520800, 527400, 534000). The smallest channel bandwidth is selected to maximize carrier power spectral density. The carriers are operated at maximum power per Multi Slim carrier [1.29W/ 31.1dBm].
- c) *Multicarrier Test Case 3:* Two contiguous Slim 33MHz Carriers with minimum spacing between carrier frequencies at the lower band edge (2516.01MHz, 2549.01MHz) (ARFCN=532998, 526398) and two Slim 33MHz carriers at the Upper band edge (2653.5MHz, 2670MHz) (ARFCN=527400, 534000) at the top channel. The carriers are operated at maximum power per Multi Slim carrier [1.29W/ 31.1dBm].
- d) *Multicarrier Test Case 4:* Two Non-contiguous carriers with one Slim 33MHz Carrier (2516.01MHz) (ARFCN=503202) at the bottom channel and one Slim 33MHz Carrier (2670.0MHz) (ARFCN=534000) at the top channel (maximum spacing between carriers). The carriers are operated at maximum power per Multi Slim carrier [2.58W/ 34.1dBm].

AVERAGE POWER - MULTICARRIER

- e) *Multicarrier Test Case 5:* Two Non-contiguous carriers with one Slim 86MHz Carrier (2541MHz) (ARFCN=508200) at the bottom channel and one Slim 86MHz Carrier (2644.98MHz) (ARFCN=528996) at the top channel (maximum spacing between carriers). The carriers are operated at maximum power per Multi Slim carrier [2.99W/ 34.8dBm].

TEST EQUIPMENT

| Description | Manufacturer | Model | ID | Last Cal. | Cal. Due |
|------------------------------|-----------------------|--------|-----|------------|------------|
| Analyzer - Spectrum Analyzer | Keysight Technologies | N9030B | AGA | 2025-06-09 | 2026-06-09 |
| Block - DC | Centric RF | C0140 | ANJ | NCR | NCR |
| Generator - Signal | Agilent | N5173B | TIW | 2023-08-07 | 2026-08-07 |

Note: The RF Test Setup/ Network (RF cables/Attenuators/filter/etc.) is defined in the configurations section for each test. The RF Test Setup/Network is calibrated using the signal generator and spectrum analyzer prior to test. The RF insertion loss of the RF Test Setup/Network is accounted for by the spectrum analyzer's reference level offset during the RF conducted testing.

AVERAGE POWER - MULTICARRIER

| | | | |
|-------------------|---|-----------------------|------------|
| EUT: | Airscale Base Transceiver Station Radio Unit Model AVHA | Work Order: | NOKI0087 |
| Serial Number: | L1252500217 | Date: | 2025-08-18 |
| Customer: | Nokia Solutions and Networks | Temperature: | 27.8°C |
| Attendees: | Mitch Hill, John Rattanavong | Relative Humidity: | 45.5% |
| Customer Project: | None | Bar. Pressure (PMSL): | 1015 mbar |
| Tested By: | Jarrold Brenden | Job Site: | PT14 |
| Power: | 54VDC | Configuration: | NOKI0087-2 |

COMMENTS

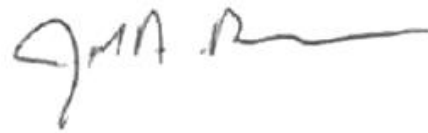
All losses in the measurement path were accounted for in the reference level offset; attenuators, filters, cables, and DC blocks.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass

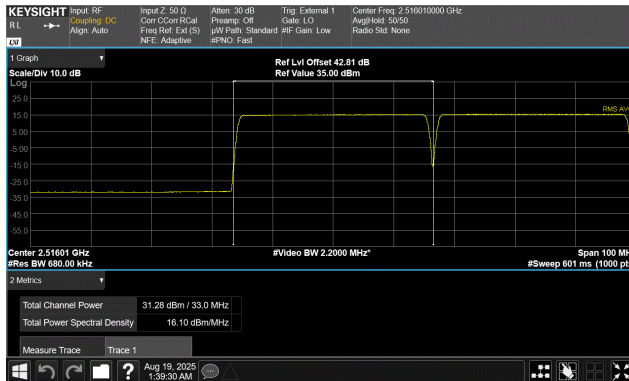


Tested By

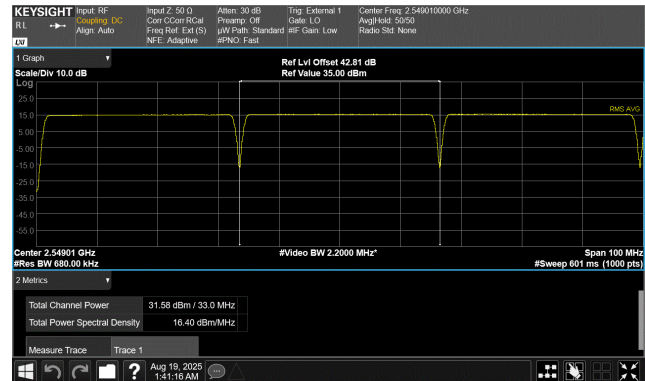
TEST RESULTS

| | Avg Cond Pwr (dBm) | Duty Cycle Factor (dB) | Single Port dBm/Carrier BW | Sixty-four Port (64x64 MIMO) dBm/carrier BW |
|--|-----------------------|---------------------------|-------------------------------|--|
| Port 1 | | | | |
| QPSK Modulation | | | | |
| Multicarrier Test Case 1 | | | | |
| 33 MHz Slim Carrier Bandwidth, 2516.01 MHz | 31.281 | 0 | 31.3 | 49.4 |
| 33 MHz Slim Carrier Bandwidth, 2549.01 MHz | 31.582 | 0 | 31.6 | 49.7 |
| 33 MHz Slim Carrier Bandwidth, 2582.01 MHz | 31.637 | 0 | 31.6 | 49.7 |
| 33 MHz Slim Carrier Bandwidth, 2615.01 MHz | 31.478 | 0 | 31.5 | 49.6 |
| Multicarrier Test Case 2 | | | | |
| 33 MHz Slim Carrier Bandwidth, 2571.00 MHz | 31.576 | 0 | 31.6 | 49.7 |
| 33 MHz Slim Carrier Bandwidth, 2604.00 MHz | 31.51 | 0 | 31.5 | 49.6 |
| 33 MHz Slim Carrier Bandwidth, 2637.00 MHz | 31.34 | 0 | 31.3 | 49.4 |
| 33 MHz Slim Carrier Bandwidth, 2670.00 MHz | 31.053 | 0 | 31.1 | 49.2 |
| Multicarrier Test Case 3 | | | | |
| 33 MHz Slim Carrier Bandwidth, 2516.01 MHz | 31.257 | 0 | 31.3 | 49.4 |
| 33 MHz Slim Carrier Bandwidth, 2549.01 MHz | 31.629 | 0 | 31.6 | 49.7 |
| 33 MHz Slim Carrier Bandwidth, 2637.00 MHz | 31.42 | 0 | 31.4 | 49.5 |
| 33 MHz Slim Carrier Bandwidth, 2670.00 MHz | 31.138 | 0 | 31.1 | 49.2 |
| Multicarrier Test Case 4 | | | | |
| 33 MHz Slim Carrier Bandwidth, 2516.01 MHz | 34.43 | 0 | 34.4 | 52.5 |
| 33 MHz Slim Carrier Bandwidth, 2670.00 MHz | 34.27 | 0 | 34.3 | 52.4 |
| Multicarrier Test Case 5 | | | | |
| 86 MHz Slim Carrier Bandwidth, 2541.00 MHz | 34.567 | 0 | 34.6 | 52.7 |
| 86 MHz Slim Carrier Bandwidth, 2644.98 MHz | 34.39 | 0 | 34.4 | 52.5 |

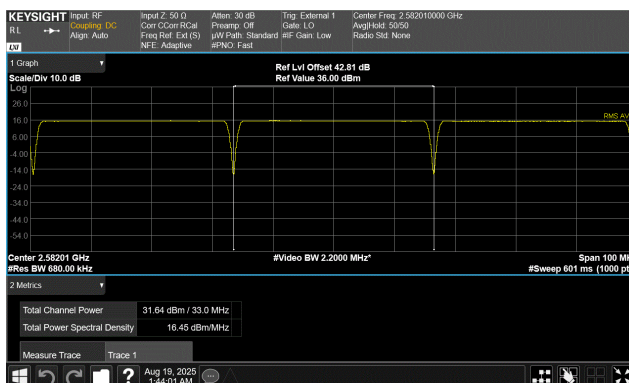
AVERAGE POWER - MULTICARRIER



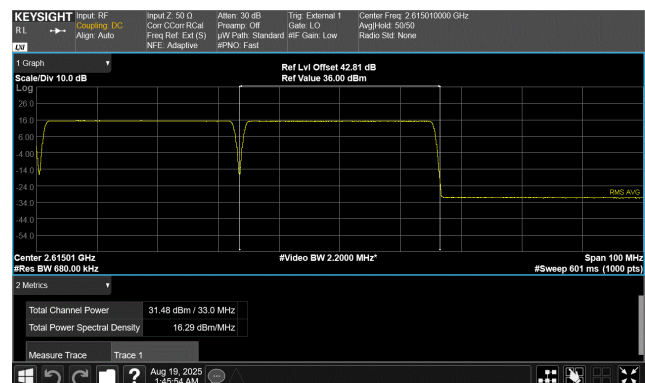
Port 1
QPSK Modulation
Multicarrier Test Case 1
33 MHz Slim Carrier Bandwidth, 2516.01 MHz



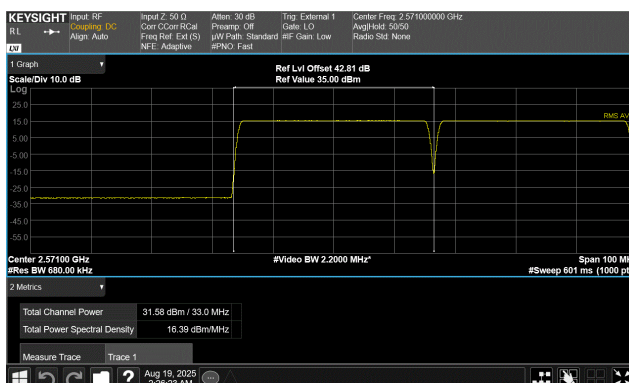
Port 1
QPSK Modulation
Multicarrier Test Case 1
33 MHz Slim Carrier Bandwidth, 2549.01 MHz



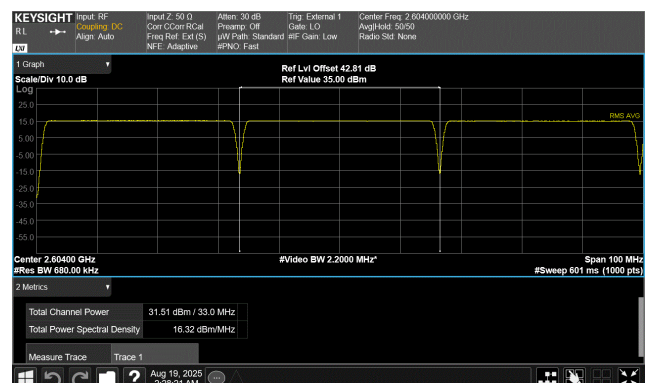
Port 1
QPSK Modulation
Multicarrier Test Case 1
33 MHz Slim Carrier Bandwidth, 2582.01 MHz



Port 1
QPSK Modulation
Multicarrier Test Case 1
33 MHz Slim Carrier Bandwidth, 2615.01 MHz

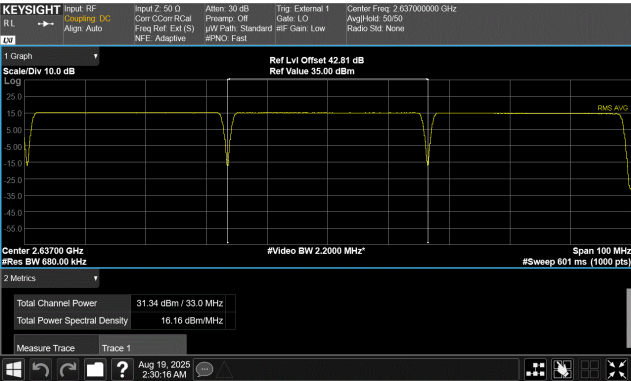


Port 1
QPSK Modulation
Multicarrier Test Case 2
33 MHz Slim Carrier Bandwidth, 2571.00 MHz

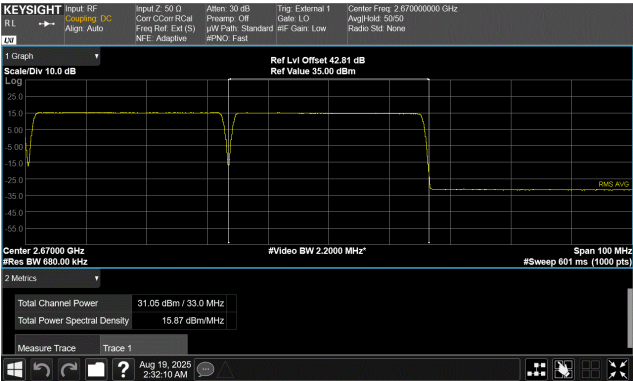


Port 1
QPSK Modulation
Multicarrier Test Case 2
33 MHz Slim Carrier Bandwidth, 2604.00 MHz

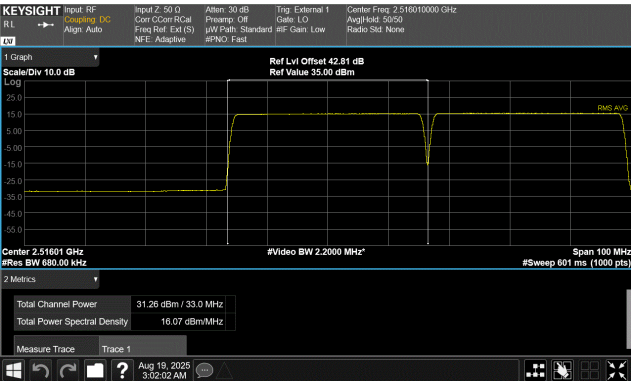
AVERAGE POWER - MULTICARRIER



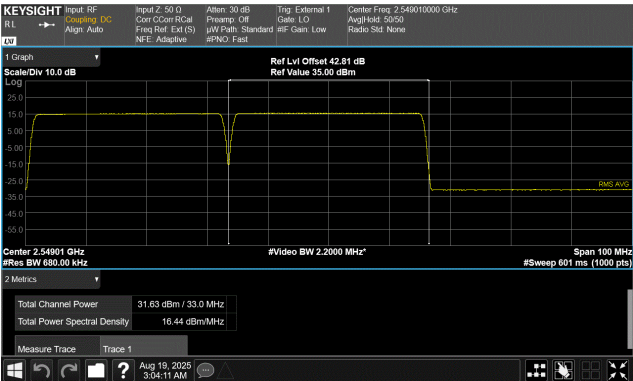
Port 1
QPSK Modulation
Multicarrier Test Case 2
33 MHz Slim Carrier Bandwidth, 2637.00 MHz



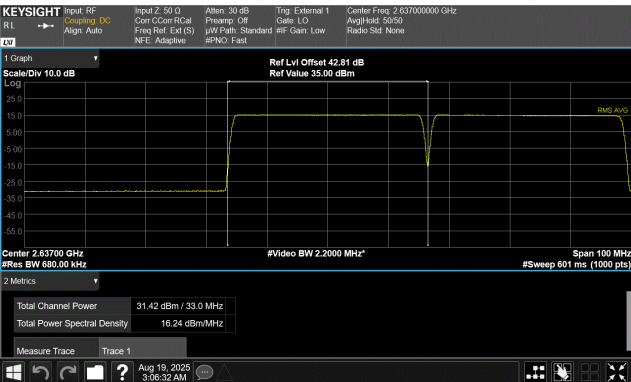
Port 1
QPSK Modulation
Multicarrier Test Case 2
33 MHz Slim Carrier Bandwidth, 2670.00 MHz



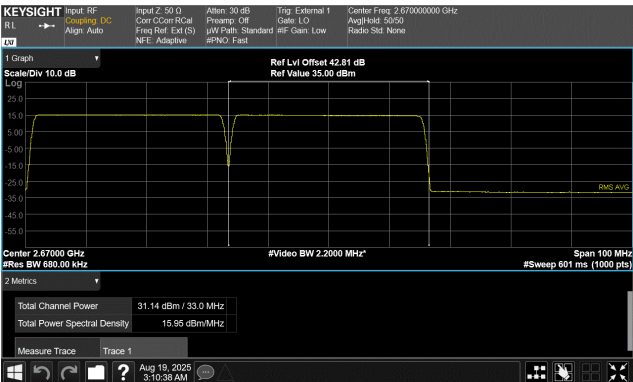
Port 1
QPSK Modulation
Multicarrier Test Case 3
33 MHz Slim Carrier Bandwidth, 2516.01 MHz



Port 1
QPSK Modulation
Multicarrier Test Case 3
33 MHz Slim Carrier Bandwidth, 2549.01 MHz

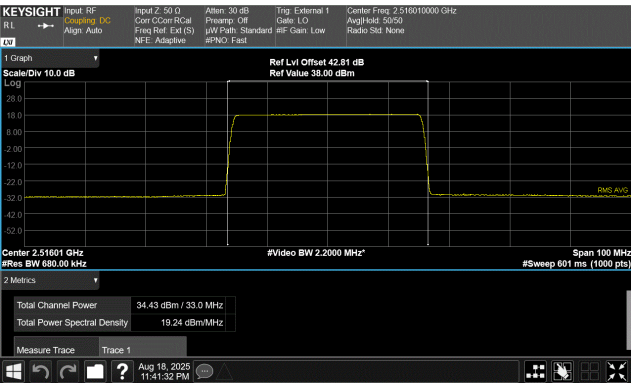


Port 1
QPSK Modulation
Multicarrier Test Case 3
33 MHz Slim Carrier Bandwidth, 2653.50 MHz

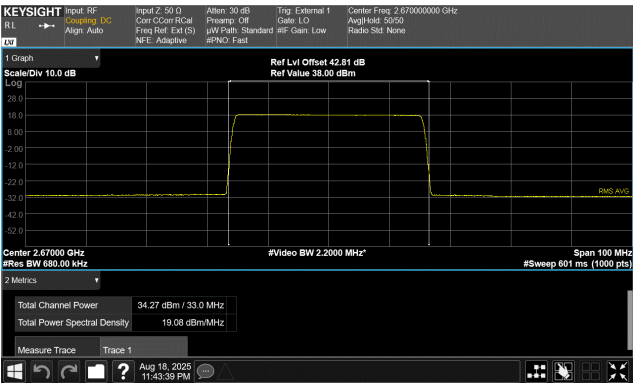


Port 1
QPSK Modulation
Multicarrier Test Case 3
33 MHz Slim Carrier Bandwidth, 2670.00 MHz

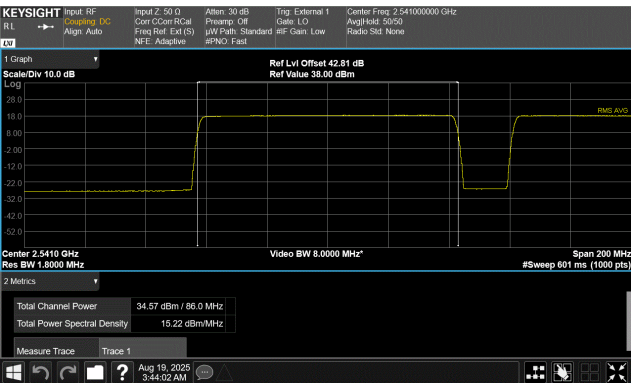
AVERAGE POWER - MULTICARRIER



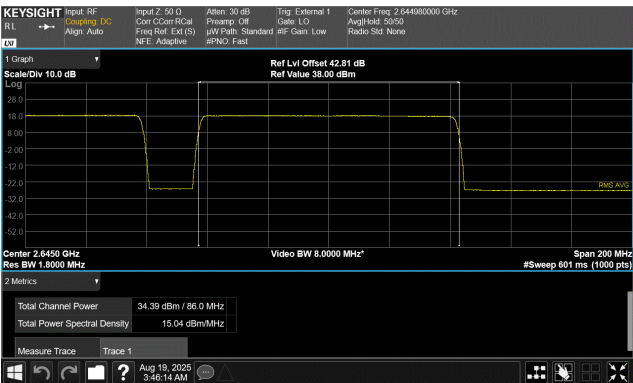
Port 1
QPSK Modulation
Multicarrier Test Case 4
33 MHz Slim Carrier Bandwidth, 2516.01 MHz



Port 1
QPSK Modulation
Multicarrier Test Case 4
33 MHz Slim Carrier Bandwidth, 2670.00 MHz



Port 1
QPSK Modulation
Multicarrier Test Case 5
86 MHz Slim Carrier Bandwidth, 2541.00 MHz



Port 1
QPSK Modulation
Multicarrier Test Case 5
86 MHz Slim Carrier Bandwidth, 2644.98 MHz

PEAK AND AVERAGE (PAPR) CCDF

TEST DESCRIPTION

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

The fundamental emission Peak to Average Power was measured using the channels and modes as called out on the following data sheets. The transmit power was set to its default maximum.

RF conducted emissions testing was performed on only one port. The AVHA antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as shown in this certification testing). Antenna port 1 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraphs 5.2.5.3, 5.7.2i, and 6.4.

Because the conducted Output Power was measured using a RMS Average detector, the Peak to Average Power Ratio (PAPR) was measured to show that the maximum peak-max-hold spectrum to the maximum of the average spectrum does not exceed the rule part defined limit.

The PAPR measurement method is described in ANSI C63.26 section 5.2.3.4.

The PAPR was measured using the CCDF function of the spectrum analyzer.

The peak-to-average power ratio (PAPR) shall not exceed 13dB. The CCDF measurement method for FCC/IC is detailed in section 5.7.2 of KDB971168 D01v03r01 and ANSI C63.26-2015 section 5.2.3.4.

All Measurements were synchronized with the measurement receiver - gated with external trigger input (frame clock (100Hz) provided by the system module. Duty cycle correction is not needed for this testing since the transmit "on" time is synchronized with the measurement receiver.

TEST EQUIPMENT

| Description | Manufacturer | Model | ID | Last Cal. | Cal. Due |
|------------------------------|-----------------------|--------|-----|------------|------------|
| Analyzer - Spectrum Analyzer | Keysight Technologies | N9030B | AGA | 2025-06-09 | 2026-06-09 |
| Block - DC | Centric RF | C0140 | ANJ | NCR | NCR |
| Generator - Signal | Agilent | N5173B | TIW | 2023-08-07 | 2026-08-07 |

Note: The RF Test Setup/ Network (RF cables/Attenuators/filter/etc.) is defined in the configurations section for each test. The RF Test Setup/Network is calibrated using the signal generator and spectrum analyzer prior to test. The RF insertion loss of the RF Test Setup/Network is accounted for by the spectrum analyzer's reference level offset during the RF conducted testing.

PEAK AND AVERAGE (PAPR) CCDF

| | | | |
|-------------------|---|-----------------------|------------|
| EUT: | Airscale Base Transceiver Station Radio Unit Model AVHA | Work Order: | NOKI0087 |
| Serial Number: | L1252500217 | Date: | 2025-08-14 |
| Customer: | Nokia Solutions and Networks | Temperature: | 26.8°C |
| Attendees: | Mitch Hill, John Rattavong | Relative Humidity: | 41.5% |
| Customer Project: | None | Bar. Pressure (PMSL): | 1017 mbar |
| Tested By: | Jarrold Brenden | Job Site: | PT14 |
| Power: | 54VDC | Configuration: | NOKI0087-2 |

COMMENTS

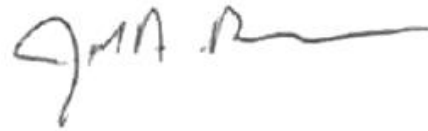
All losses in the measurement path were accounted for in the reference level offset; attenuators, filters, cables, and DC blocks.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass



Tested By

TEST RESULTS

| | 0.1% PAPR Value (dB) | 0.1% PAPR Limit (dB) | Results |
|---------------------------------|----------------------|----------------------|---------|
| Port 1 | | | |
| 40 MHz Base Channel Bandwidth | | | |
| 33.0 MHz Slim Carrier Bandwidth | | | |
| QPSK Modulation | | | |
| Low Channel, 2516.01 MHz | 7.93 | 13 | Pass |
| Middle Channel, 2592.99 MHz | 7.85 | 13 | Pass |
| High Channel, 2670.0 MHz | 7.87 | 13 | Pass |
| 34.0 MHz Slim Carrier Bandwidth | | | |
| QPSK Modulation | | | |
| Low Channel, 2516.01 MHz | 7.97 | 13 | Pass |
| Middle Channel, 2592.99 MHz | 7.81 | 13 | Pass |
| High Channel, 2670.0 MHz | 7.87 | 13 | Pass |
| 38.0 MHz Slim Carrier Bandwidth | | | |
| QPSK Modulation | | | |
| Low Channel, 2516.01 MHz | 7.94 | 13 | Pass |
| Middle Channel, 2592.99 MHz | 7.78 | 13 | Pass |
| High Channel, 2670.0 MHz | 7.94 | 13 | Pass |
| 38.5 MHz Slim Carrier Bandwidth | | | |
| QPSK Modulation | | | |
| Low Channel, 2516.01 MHz | 7.89 | 13 | Pass |
| Middle Channel, 2592.99 MHz | 7.78 | 13 | Pass |
| High Channel, 2670.0 MHz | 7.9 | 13 | Pass |

PEAK AND AVERAGE (PAPR) CCDF

| | 0.1% PAPR Value (dB) | 0.1% PAPR Limit (dB) | Results |
|---------------------------------|-------------------------|-------------------------|---------|
| 50 MHz Base Channel Bandwidth | | | |
| 44.0 MHz Slim Carrier Bandwidth | | | |
| QPSK Modulation | | | |
| Low Channel, 2521.02 MHz | 7.98 | 13 | Pass |
| Middle Channel, 2592.99 MHz | 7.77 | 13 | Pass |
| High Channel, 2664.99 MHz | 7.88 | 13 | Pass |
| 49.0 MHz Slim Carrier Bandwidth | | | |
| QPSK Modulation | | | |
| Low Channel, 2521.02 MHz | 8.03 | 13 | Pass |
| Middle Channel, 2592.99 MHz | 7.79 | 13 | Pass |
| High Channel, 2664.99 MHz | 7.86 | 13 | Pass |
| 49.5 MHz Slim Carrier Bandwidth | | | |
| QPSK Modulation | | | |
| Low Channel, 2521.02 MHz | 7.96 | 13 | Pass |
| Middle Channel, 2592.99 MHz | 7.84 | 13 | Pass |
| High Channel, 2664.99 MHz | 7.97 | 13 | Pass |
| 60 MHz Base Channel Bandwidth | | | |
| 55.0 MHz Slim Carrier Bandwidth | | | |
| QPSK Modulation | | | |
| Low Channel, 2562.00 MHz | 7.97 | 13 | Pass |
| Middle Channel, 2592.99 MHz | 7.76 | 13 | Pass |
| High Channel, 2659.98 MHz | 7.86 | 13 | Pass |
| 57.5 MHz Slim Carrier Bandwidth | | | |
| QPSK Modulation | | | |
| Low Channel, 2562.00 MHz | 8.06 | 13 | Pass |
| Middle Channel, 2592.99 MHz | 7.8 | 13 | Pass |
| High Channel, 2659.98 MHz | 7.97 | 13 | Pass |
| 90 MHz Base Channel Bandwidth | | | |
| 86.0 MHz Slim Carrier Bandwidth | | | |
| QPSK Modulation | | | |
| Low Channel, 2541.00 MHz | 8.13 | 13 | Pass |
| Middle Channel, 2592.99 MHz | 7.83 | 13 | Pass |
| High Channel, 2644.98 MHz | 8.03 | 13 | Pass |
| 16QAM Modulation | | | |
| Middle Channel, 2592.99 MHz | 7.84 | 13 | Pass |
| 64QAM Modulation | | | |
| Middle Channel, 2592.99 MHz | 7.85 | 13 | Pass |
| 256QAM Modulation | | | |
| Middle Channel, 2592.99 MHz | 7.83 | 13 | Pass |