

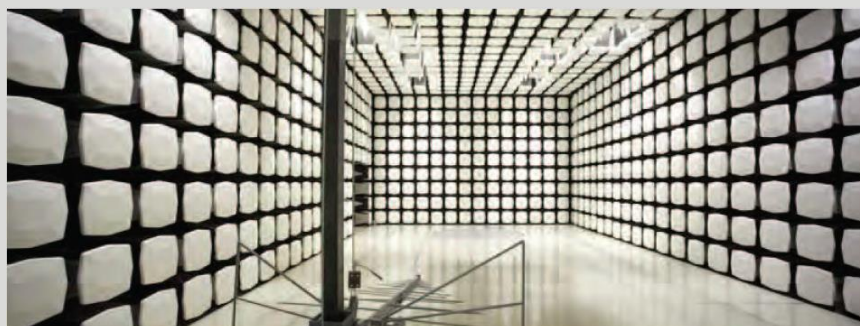


Radio Test Report
Application for Grant of Equipment Authorization
FCC Part 27
[2496MHz – 2690MHz]

FCC ID: VBNAVHA-01

Nokia Solutions and Networks
Airscale Base Transceiver Station Radio Unit
Model: AVHA
Feature: CB001167

Report: NOKI0088.0 Rev. 0, Issue Date: October 2, 2025



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CERTIFICATE OF TEST

Last Date of Test: September 30, 2025
Nokia Solutions and Networks
EUT: Aircscale Base Transceiver Station Radio Unit AVHA

Radio Equipment Testing

Standards

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

Results

Test Description	Result	Specification Section(s)	Method Section(s)	Comments
Occupied Bandwidth	Pass	27.53 (m)	5.4	
Output Power	Pass	27.50 (h)	5.2	
Peak to Average Power (PAPR) CCDF	Pass	27.50 (h)	5.2	
Band Edge Compliance	Pass	27.53 (m)	5.7	
Spurious Conducted Emissions	Pass	27.53 (m)	5.7	
Spurious Radiated Emissions	Pass	27.53 (m)	5.5	

Deviations From Test Standards

None

Approved By:



Adam Bruno, Operations Manager

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			

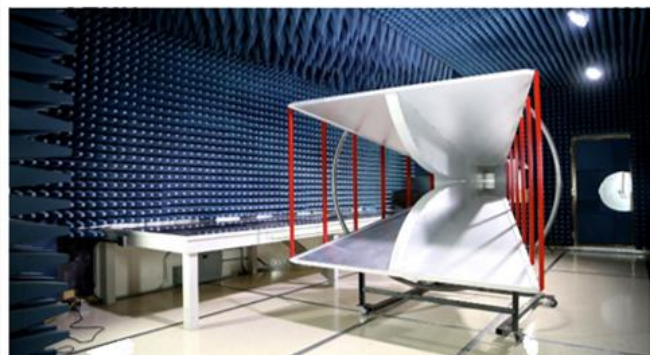
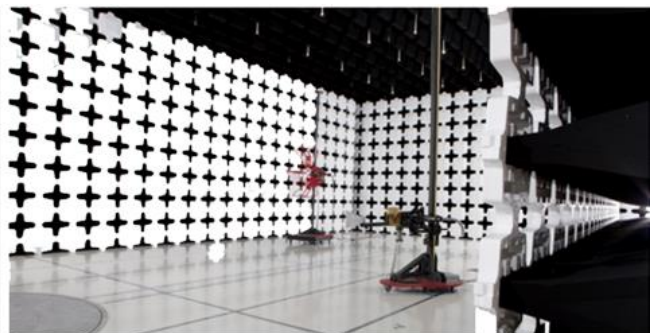
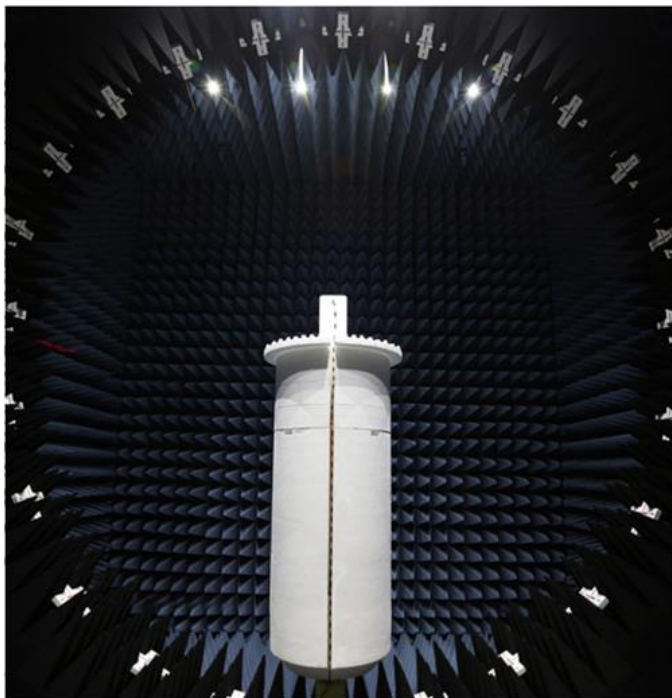
FACILITIES

Testing was performed at the following location(s)

Location	Labs ⁽¹⁾	Address	A2LA ⁽²⁾	ISED ⁽³⁾	BSMI ⁽⁴⁾	VCCI ⁽⁵⁾	CAB	FDA ⁽⁶⁾
☒ 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
☐ 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 has been performed for each test per our internal quality document QM205.4.6. 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.

Test Location: Texas

Test	+ MU	- MU
Frequency Accuracy	0.0007%	-0.0007%
Amplitude Accuracy (dB)	1.2 dB	-1.2 dB
Conducted Power (dB)	1.2 dB	-1.2 dB
Radiated Power via Substitution (dB)	0.7 dB	-0.7 dB
Temperature (degrees C)	0.7°C	-0.7°C
Humidity (% RH)	2.5% RH	-2.5% RH
Voltage (AC)	1.0%	-1.0%
Voltage (DC)	0.7%	-0.7%
Field Strength (dB)	0	0
AC Powerline Conducted Emissions (dB)	0	0

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.

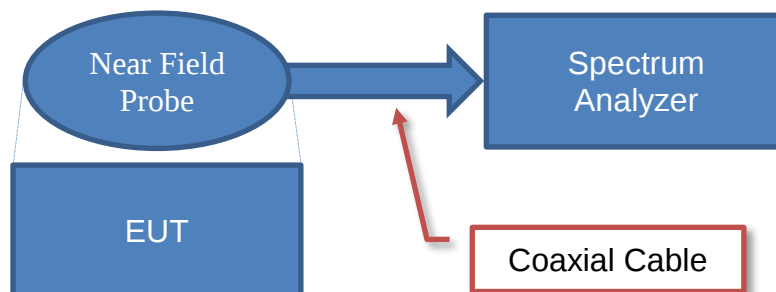
Antenna Port Conducted Measurements



Sample Calculation (logarithmic units)

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

Near Field Test Fixture Measurements

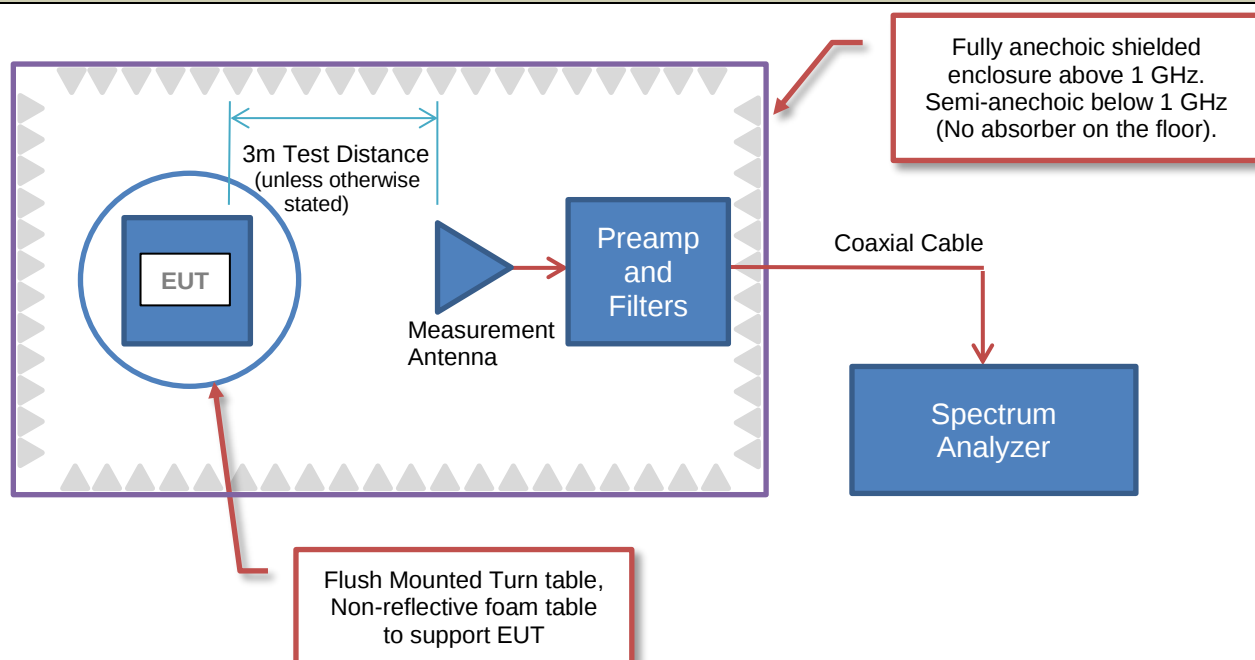


Sample Calculation (logarithmic units)

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

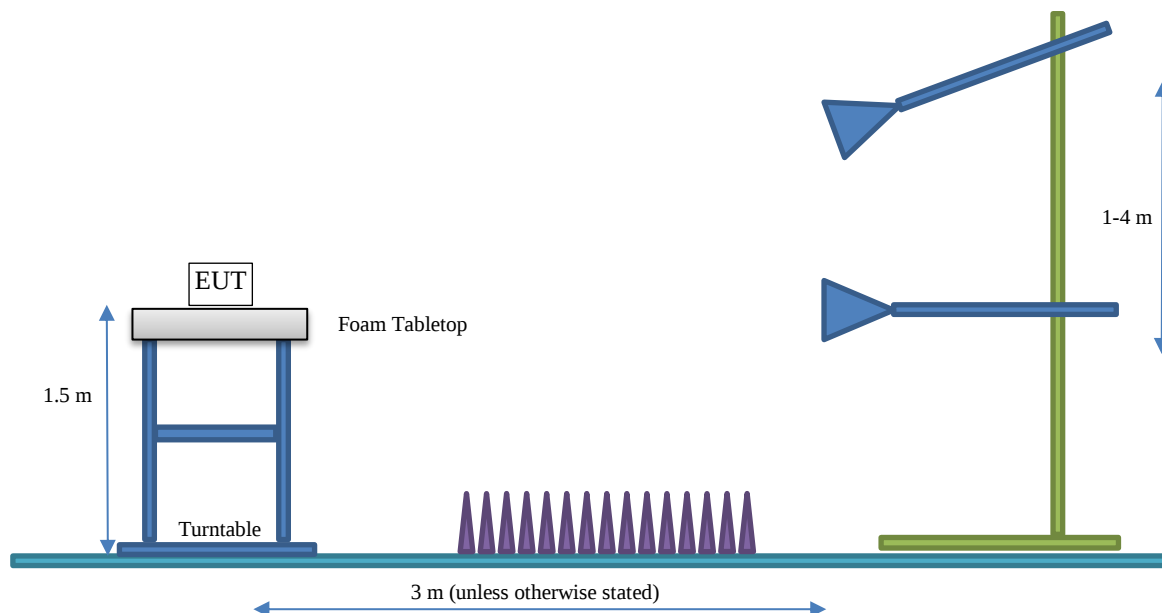
Radiated Power (ERP/EIRP) – Substitution Method:

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:	September 22, 2025
Last Date of Test:	September 30, 2025
Receipt Date of Samples:	September 19, 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:

AirScale 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 radio certification of the AVHA 4G LTE and 4G LTE-5G NR concurrent TDD operations in the BRS/EBS Band.**

AVHA RU supports 3GPP frequency band 41/n41 operations for the FCC BRS/EBS Band (BTS Tx/Rx: 2496 to 2690 MHz). The AVHA RU supports up to 64 port 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 supports LTE TDD channel bandwidths of LTE10, LTE15, LTE20. The single carrier channel bandwidth maximum RF output power per TRX are as follows.

AVHA Single Carrier Maximum RF Output Power												
Carrier Power per	LTE10	LTE15	LTE20	NR10	NR15	NR 20	NR30	NR 40	NR 50	NR 60	NR 70	NR80-NR100
TRX	1.25W or 31.0dBm	1.56W or 31.9dBm	1.95W or 32.9dBm	1.25W or 31.0dBm	1.56W or 31.9dBm	1.95W or 32.9dBm	2.34W or 33.7dBm	3.13W or 34.9dBm	3.91W or 35.9dBm	4.69W or 36.7dBm	5.47W or 37.4dBm	6.25W or 37.9dBm
Radio (64 x TRX)	80.0W or 49.0dBm	100W or 50.0dBm	125W or 51.0dBm	80.0W or 49.0dBm	100W or 50.0dBm	125W or 51.0dBm	150W or 51.8dBm	200W or 53.0dBm	250W or 54.0dBm	300W or 54.8dBm	350W or 55.4dBm	400W Or 56.0dBm
Note: 10, 15, and 20-MHz carrier bandwidths are limited to 5W/MHz for 3CC and 4CC carrier configurations.												

The AVHA RU supports four downlink 4G LTE and 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 up to 4 component carrier operation is supported.

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 AVQQA transmitter outputs are connected to the antenna array (thirty-two are connected to $+45^\circ$ radiators/antennas and thirty-two

PRODUCT DESCRIPTION

are connected to the -45° radiators/antennas).

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). The LTE supported test modules are E-TM 1.1 (QPSK modulation type), E-TM 3.2 (16QAM modulation type), E-TM 3.1 (64QAM modulation type), and E-TM 3.1a (256QAM modulation type).

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. This testing is being performed to obtain an FCC radio grant for Band 41/n41 (BTS Tx/Rx: 2496 to 2690MHz). FCC CFR 47 Part 27 covers the requirements band 41/n41. Tests to be performed include RF channel power, CCDF- peak to average power ratio, emission bandwidth (99% and 26 dB down), band edge spurious emissions (± 1 MHz), spurious emissions (conducted) and Spurious emissions Radiated.

3GPP Frequency Band 41 4G LTE Band Edge EARFCNs

The 3GPP frequency band 41 (2496-2690 MHz) band edge EARFCNs for 4G LTE channel bandwidths (10, 15 and 20MHz) are provided in Table below.

	Downlink 4G LTE EARFCN	Downlink Frequency (MHz)	4G LTE Channel Bandwidth		
			10MHz	15MHz	20MHz
AVHA 4G LTE Band 41 (Ant 1-64)	39650	2496.00	Band Edge	Band Edge	Band Edge
					
	39700	2501.00	Bot Ch		
					
	39725	2503.5		Bot Ch	
					
	39750	2506.00			Bot Ch
					
	40620	2593.00	Middle Ch	Middle Ch	Middle Ch
					
	41490	2680.00			Top Ch
					
	41515	2682.5		Top Ch	
					
	41540	2685.00	Top Ch		
					
	41589	2690.00	Band Edge	Band Edge	Band Edge

AVHA Downlink Band Edge 4G LTE Band 41 Frequency Channels

PRODUCT DESCRIPTION

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

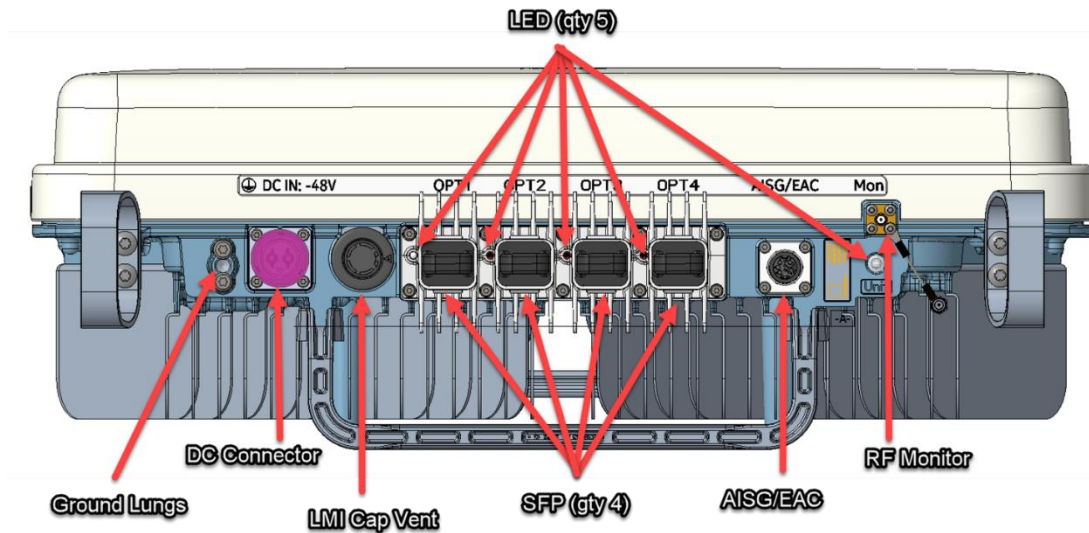
The 3GPP frequency band n41 (2496-2690 MHz) band edge NR-ARFCNs for 5G NR channel bandwidths (10, 15, 20, 30, 40, 50, 60, 80, 90 and 100 MHz) are provided in the Table below. The NR-ARFCN is defined as New Radio - Absolute Radio Frequency Channel Number.

	5G NR NR-ARFCN	Frequency (MHz)	5G NR Channel Bandwidth in MHz										
			10	15	20	30	40	50	60	70	80	90	100
AVHA 5G NR Band n41 (Ant 1-64)	Band Edge	2496.00	Lower Band Edge										
	500202	2501.01	Bot Ch										
	500700	2503.50		Bot Ch									
	501204	2506.02			Bot Ch								
	501702	2508.51											
	502200	2511.00				Bot Ch							
	503202	2516.01					Bot Ch						
	504204	2521.02						Bot Ch					
	505200	2526.00							Bot Ch				
	506202	2531.01								Bot Ch			
	507204	2536.02									Bot Ch		
	508200	2541.00										Bot Ch	
	509202	2546.01											Bot Ch
	518598	2592.99	Middle Channel										
	528000	2640.00											Top Ch
	528996	2644.98										Top Ch	
	529998	2649.99									Top Ch		
	531000	2655.00								Top Ch			
	531996	2659.98							Top Ch				
	532998	2664.99						Top Ch					
	534000	2670.00					Top Ch						
	534996	2674.98				Top Ch							
	535500	2677.5											
	535998	2679.99			Top Ch								
	536496	2682.48		Top Ch									
	537000	2685.00	Top Ch										
	Band Edge	2690.00	Upper Band Edge										

AVHA Downlink Band Edge 5G NR Band n41 Frequency Channels

PRODUCT DESCRIPTION

AVHA Connector Layout



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 Class II Permissive Change radio certification of the AirScale MAA 64T64R Radio Unit variant AVHA for LTE single/multi carriers and LTE-NR concurrent 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.20250603.004
BTS Software Version (25R3)	SBTS25R3_ENB_9999_250603_000016

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	L1224802943
ABIO (BTS System Module-rack slot1)	Nokia Solutions and Networks	475266A.104	L1214403575
ABIO (BTS System Module-rack slot2)	Nokia Solutions and Networks	475266A.102	L1205105870
AVHA (Radio Module Model) (with Performance Kit)	Nokia Solutions and Networks	476541A.101	L1252603387
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	FR214719846
SFP28 70M MM (RADIO)	Nokia	P462265	FR214716512
SFP28 70M MM (ENB)	Nokia	P462265	VF20180016Z
SFP28 70M MM (RADIO)	Nokia	P462265	VF20470022K
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	Junsho	MWX241-01000KMSKMS/B	J12J104181-00
3 Meter RF cable	Junsho	MWX241-03000KMSKMS/B	J12J105861-00
(63) 25W - 50ohm -Terminating Load	API Weinschel, Inc	1427-2	CN1829
(63) 3 Meter RF cable	CBL	CBL-10F-SMSF-402J-N	402J-N
Fiber Optic cable 25m	Amphenol Fiber Optic	995741A	VZ1701
Fiber Optic cable 25m	Amphenol Fiber Optic	995741A	VZ1701/2
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	25 meters	N	ABIO-1	AVHA-port1
Fiber Optic Cable	N	25 meters	N	ABIO-2	AVHA-port2
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

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

RF Test Setup Diagram:

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



CONFIGURATIONS

Test Configuration 2 (RF Conducted Testing)

Software/Firmware Running during test	
Description	Version
Radio Module Software	RF.SRM7.trunk.20250603.004
BTS Software Version (25R3)	SBTS25R3_ENB_9999_250603_000016

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	L1224802943
ABIO (BTS System Module-rack slot1)	Nokia Solutions and Networks	475266A.104	L1214403575
ABIO (BTS System Module-rack slot2)	Nokia Solutions and Networks	475266A.102	L1205105870
AVHA (Radio Module Model) (with Performance Kit)	Nokia Solutions and Networks	476541A.101	L1252603387
Attenuator 250W/30dB	API Weinschel	58-30-34	LL627
SFP28 70M MM (ENB)	Nokia	P462265	FR214719846
SFP28 70M MM (RADIO)	Nokia	P462265	FR214716512
SFP28 70M MM (ENB)	Nokia	P462265	VF20180016Z
SFP28 70M MM (RADIO)	Nokia	P462265	VF20470022K
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	Junsho	MWX241-01000KMSKMS/B	J12J104181-00
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 25m	Amphenol Fiber Optic	995741A	VZ1701
Fiber Optic cable 25m	Amphenol Fiber Optic	995741A	VZ1701/2
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

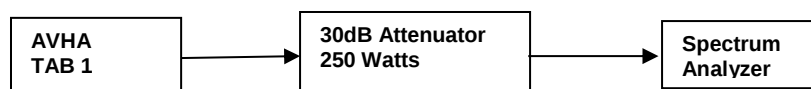
CONFIGURATIONS

Cables (Peripheral)					
Description	Shield (Y/N)	Length (m)	Ferrite (Y/N)	Connection 1	Connection 2
Fiber Optic Cable	N	25 meters	N	ABIO-1	AVHA-port1
Fiber Optic Cable	N	25 meters	N	ABIO-2	AVHA-port2
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

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/30dB
Attenuator 250W/30dB	N	NA	N	RF cable - Junsho (3 Meters)	RF cable - Junsho (1 meter)
RF cable - Junsho	Y	1 meter	N	Attenuator 250W/30dB	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.20250603.004
BTS Software Version (25R3)	SBTS25R3_ENB_9999_250603_000016

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	L1224802943
ABIO (BTS System Module-rack slot1)	Nokia Solutions and Networks	475266A.104	L1214403575
ABIO (BTS System Module-rack slot2)	Nokia Solutions and Networks	475266A.102	L1205105870
AVHA (Radio Module Model) (with Performance Kit)	Nokia Solutions and Networks	476541A.101	L1252603387
Attenuator 150W/20dB	AeroflexWeinschel	66-20-33	BZ1163
High Pass Filter 3.2-18GHz/15W	Microwave Circuits, Inc.	RHPF23G03G18	20121400043
SFP28 70M MM (ENB)	Nokia	P462265	FR214719846
SFP28 70M MM (RADIO)	Nokia	P462265	FR214716512
SFP28 70M MM (ENB)	Nokia	P462265	VF20180016Z
SFP28 70M MM (RADIO)	Nokia	P462265	VF20470022K
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	Junsho	MWX241-01000KMSKMS/B	J12J104181-00
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 25m	Amphenol Fiber Optic	995741A	VZ1701
Fiber Optic cable 25m	Amphenol Fiber Optic	995741A	VZ1701/2
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

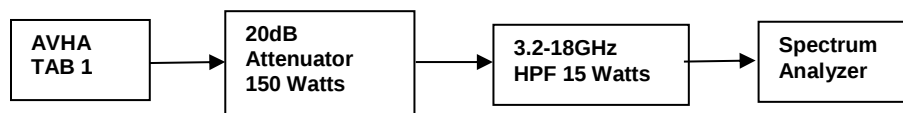
CONFIGURATIONS

Cables (Peripheral)					
Description	Shield (Y/N)	Length (m)	Ferrite (Y/N)	Connection 1	Connection 2
Fiber Optic Cable	N	25 meters	N	ABIO-1	AVHA-port1
Fiber Optic Cable	N	25 meters	N	ABIO-2	AVHA-port2
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

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 - Junsho (1 Meter)
RF cable - Junsho	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.20250603.004
BTS Software Version (25R3)	SBTS25R3_ENB_9999_250603_000016

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	L1224802943
ABIO (BTS System Module-rack slot1)	Nokia Solutions and Networks	475266A.104	L1214403575
ABIO (BTS System Module-rack slot2)	Nokia Solutions and Networks	475266A.102	L1205105870
AVHA (Radio Module Model) (with Performance Kit)	Nokia Solutions and Networks	476541A.101	L1252603387
Attenuator 50W/10dB	AeroflexWeinschel	RFS50G26S10FF	20031701
High Pass Filter 8-40GHz/15W	RF-Lambda	RHPF23G08G40	17102700016
SFP28 70M MM (ENB)	Nokia	P462265	FR214719846
SFP28 70M MM (RADIO)	Nokia	P462265	FR214716512
SFP28 70M MM (ENB)	Nokia	P462265	VF20180016Z
SFP28 70M MM (RADIO)	Nokia	P462265	VF20470022K
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	Junsho	MWX241-01000KMSKMS/B	J12J104181-00
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 25m	Amphenol Fiber Optic	995741A	VZ1701
Fiber Optic cable 25m	Amphenol Fiber Optic	995741A	VZ1701/2
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

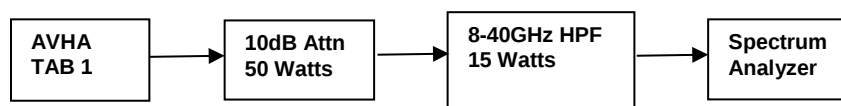
CONFIGURATIONS

Cables (Peripheral)					
Description	Shield (Y/N)	Length (m)	Ferrite (Y/N)	Connection 1	Connection 2
Fiber Optic Cable	N	25 meters	N	ABIO-1	AVHA-port1
Fiber Optic Cable	N	25 meters	N	ABIO-2	AVHA-port2
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

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 (3 Meters)	High Pass Filter 8-40GHz/15W
High Pass Filter 8-40GHz/15W	N	NA	N	Attenuator 50W/10dB	RF cable-Junsho (1 Meters)
RF cable-Junsho	Y	1 meter	N	High Pass Filter 8-40GHz/15W	Analyzer

RF Test Setup Diagram:

Conducted Spurious Emissions Test Setup for 18GHz to 27GHz



CONFIGURATIONS

Test Configuration 5 (Radiated Emissions – AVHA)

Software/Firmware Running during test	
Description	Version
Radio Module Software	RF.SRM7.trunk.20250603.004
BTS Software Version (25R3)	SBTS25R3_ENB_9999_250603_000016

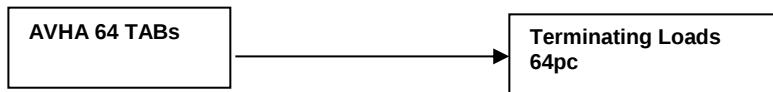
Equipment being tested (include Peripherals)			
Description	Manufacturer	Model/Part Number	Serial Number
AMIA (BTS System Module)	Nokia Solutions and Networks	473098.102	J8173107703
ASIB (BTS System Module)	Nokia Solutions and Networks	473764A.102	L1224802943
ABIO (BTS System Module-rack slot1)	Nokia Solutions and Networks	475266A.104	L1214403575
ABIO (BTS System Module-rack slot2)	Nokia Solutions and Networks	475266A.102	L1205105870
AVHA (Radio Module Model) (with Integration Kit)	Nokia Solutions and Networks	476541A.101	L1252500220
DC Line filter	Spectrum Controls INC.	12-PMB-260-DC-E	NA
Terminating Load -50ohms. 25w. Dc to 10GHz (64 pieces)	API Weinschel. Inc	Model 1427-2	CN1869
SFP28 70M MM (ENB)	Nokia	P462265	FR214719846
SFP28 70M MM (RADIO)	Nokia	P462265	FR214716512
SFP28 70M MM (ENB)	Nokia	P462265	VF20180016Z
SFP28 70M MM (RADIO)	Nokia	P462265	VF20470022K
Lenovo PC T490	Lenovo	T490	PF26RVZ0
Keysight- DC System power supply	Keysight	N8757A	US21D4054S
FPAC (DC-pwr supply)	Nokia	472438A.101	G7111007146
(64) 4 Meter- RF cable	CBL	CBL-10F-SMSF-402J-N	402J-N
Fiber Optic cable 25m	Amphenol Fiber Optic	995741A	VZ1701
Fiber Optic cable 25m	Amphenol Fiber Optic	995741A	VZ1701/2

Cables (Peripheral)					
Description	Shield (Y/N)	Length (m)	Ferrite (Y/N)	Connection 1	Connection 2
Fiber Optic cable	N	25 meters	N	ABIO-1	AVHA-port1
Fiber Optic cable	N	25 meters	N	ABIO-2	AVHA-port2
Cat-5e cable (CSA)	Y	100 meters	N	ASIB	FYGB GPS receiver
Cat-5e cable	Y	25 meters	N	ASIB	WebEM- PC

CONFIGURATIONS

Cables					
Description	Shield (Y/N)	Length (m)	Ferrite (Y/N)	Connection 1	Connection 2
RF-Cable	Y	4 meters	N	EUT [AVHA] TAB port #1-64	25W -50ohm Terminating Loads
AISG/RET	N	2.4m	N	Remote Radio Head Module	Unterminated
Grounding	N	3m	N	Remote Radio Head Module	Turntable Ground

RF Test Setup Diagram



MODIFICATIONS

Equipment Modifications

Item	Date	Test	Modification	Note	Disposition of EUT
1	2025-09-25	Spurious Radiated Emissions	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	2025-09-30	Output 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.
4	2025-09-30	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.
5	2025-09-30	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.
3	2025-09-30	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.
4	2025-09-30	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 – ALL PORTS

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.

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.

The fundamental emission Output Power (maximum average conducted output power) RF conducted emissions testing was performed on all ports at 20 MHz channel bandwidth on the middle channel in order to show the AVHA antenna ports are all within the manufacturer's rate output power tolerances (the RF power variation between antenna ports is small as shown in this certification testing). The transmit power was set to its default maximum.

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.

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 – ALL PORTS

EUT:	Airscale Base Transceiver Station Radio Unit AVHA	Work Order:	NOKI0088
Serial Number:	L1252603387	Date:	2025-09-26
Customer:	Nokia Solutions and Networks	Temperature:	28.3°C
Attendees:	David Le, Mitch Hill	Relative Humidity:	33.7%
Customer Project:	None	Bar. Pressure (PMSL):	1018 mbar
Tested By:	Jarrod Brenden	Job Site:	PT14
Power:	54VDC	Configuration:	NOKI0088-2

COMMENTS

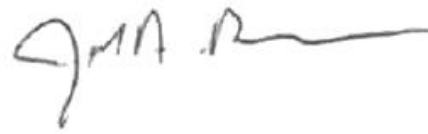
All losses in the measurement path were accounted for in the reference level offset; attenuators, filters, cables, and DC blocks. Carriers were enabled at maximum power levels.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass



Tested By

TEST RESULTS

		Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Value (W)	Result
20 MHz Channel Bandwidth						
QPSK Modulation						
Middle Channel, 2593.00 MHz						
Port 1	32.646	0	32.7	1.8	Within Tolerance	
Port 2	32.801	0	32.8	1.9	Within Tolerance	
Port 3	32.729	0	32.7	1.9	Within Tolerance	
Port 4	32.872	0	32.9	1.9	Within Tolerance	
Port 5	32.783	0	32.8	1.9	Within Tolerance	
Port 6	32.792	0	32.8	1.9	Within Tolerance	
Port 7	32.854	0	32.9	1.9	Within Tolerance	
Port 8	32.451	0	32.5	1.8	Within Tolerance	
Port 9	32.727	0	32.7	1.9	Within Tolerance	
Port 10	32.702	0	32.7	1.9	Within Tolerance	
Port 11	32.88	0	32.9	1.9	Within Tolerance	
Port 12	32.835	0	32.8	1.9	Within Tolerance	
Port 13	32.744	0	32.7	1.9	Within Tolerance	
Port 14	32.664	0	32.7	1.9	Within Tolerance	
Port 15	32.648	0	32.6	1.8	Within Tolerance	
Port 16	32.605	0	32.6	1.8	Within Tolerance	
Port 17	32.942	0	32.9	1.9	Within Tolerance	
Port 18	32.788	0	32.8	1.9	Within Tolerance	
Port 19	32.785	0	32.8	1.9	Within Tolerance	

AVERAGE POWER – ALL PORTS

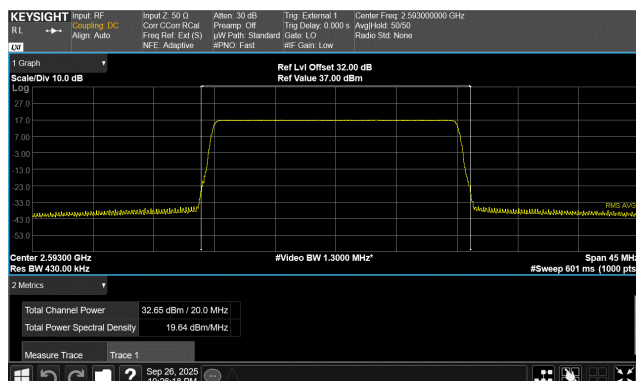
	Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Value (W)	Result
Port 20	32.745	0	32.7	1.9	Within Tolerance
Port 21	32.787	0	32.8	1.9	Within Tolerance
Port 22	32.687	0	32.7	1.9	Within Tolerance
Port 23	32.451	0	32.5	1.8	Within Tolerance
Port 24	32.615	0	32.6	1.8	Within Tolerance
Port 25	32.73	0	32.7	1.9	Within Tolerance
Port 26	32.822	0	32.8	1.9	Within Tolerance
Port 27	32.791	0	32.8	1.9	Within Tolerance
Port 28	32.744	0	32.7	1.9	Within Tolerance
Port 29	32.852	0	32.9	1.9	Within Tolerance
Port 30	32.789	0	32.8	1.9	Within Tolerance
Port 31	32.73	0	32.7	1.9	Within Tolerance
Port 32	32.764	0	32.8	1.9	Within Tolerance
Port 33	32.624	0	32.6	1.8	Within Tolerance
Port 34	32.773	0	32.8	1.9	Within Tolerance
Port 35	32.669	0	32.7	1.9	Within Tolerance
Port 36	32.651	0	32.7	1.9	Within Tolerance
Port 37	32.663	0	32.7	1.9	Within Tolerance
Port 38	32.847	0	32.8	1.9	Within Tolerance
Port 39	32.717	0	32.7	1.9	Within Tolerance
Port 40	32.571	0	32.6	1.8	Within Tolerance
Port 41	32.57	0	32.6	1.8	Within Tolerance
Port 42	32.436	0	32.4	1.7	Within Tolerance
Port 43	32.701	0	32.7	1.9	Within Tolerance
Port 44	32.685	0	32.7	1.9	Within Tolerance
Port 45	32.783	0	32.8	1.9	Within Tolerance
Port 46	32.904	0	32.9	1.9	Within Tolerance
Port 47	32.794	0	32.8	1.9	Within Tolerance
Port 48	32.746	0	32.7	1.9	Within Tolerance
Port 49	32.739	0	32.7	1.9	Within Tolerance
Port 50	32.843	0	32.8	1.9	Within Tolerance
Port 51	32.726	0	32.7	1.9	Within Tolerance
Port 52	32.778	0	32.8	1.9	Within Tolerance
Port 53	32.794	0	32.8	1.9	Within Tolerance
Port 54	32.592	0	32.6	1.8	Within Tolerance
Port 55	32.843	0	32.8	1.9	Within Tolerance
Port 56	32.812	0	32.8	1.9	Within Tolerance
Port 57	32.878	0	32.9	1.9	Within Tolerance
Port 58	32.67	0	32.7	1.9	Within Tolerance
Port 59	32.777	0	32.8	1.9	Within Tolerance

AVERAGE POWER – ALL PORTS

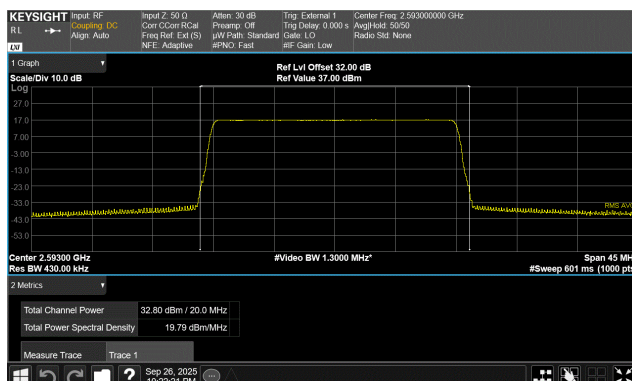


		Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Value (W)	Result
ALL PORTS	Port 60	32.934	0	32.9	1.9	Within Tolerance
	Port 61	32.834	0	32.8	1.9	Within Tolerance
	Port 62	32.695	0	32.7	1.9	Within Tolerance
	Port 63	32.696	0	32.7	1.9	Within Tolerance
	Port 64	32.805	0	32.8	1.9	Within Tolerance
		N/A	N/A	50.8	120.2	Within Tolerance

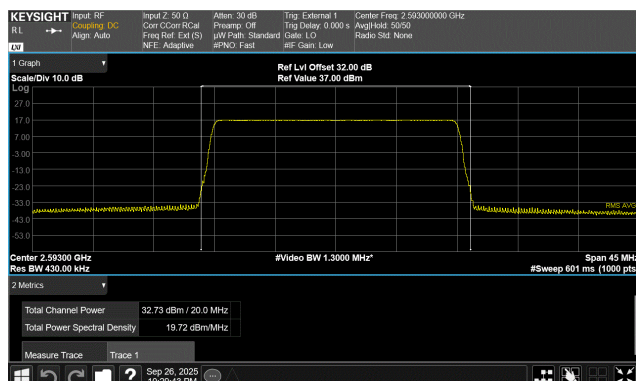
AVERAGE POWER – ALL PORTS



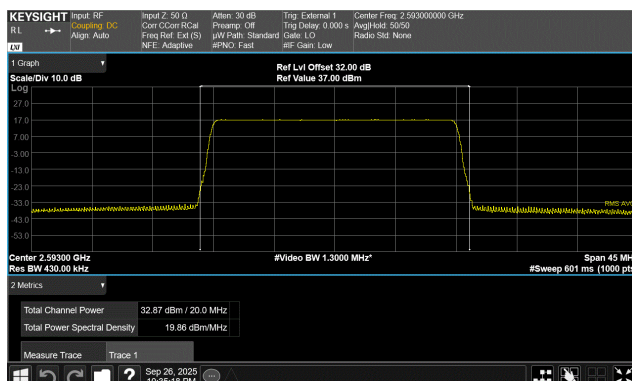
20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 1



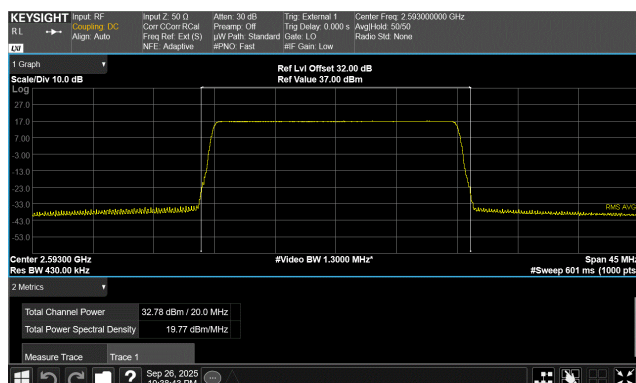
20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 2



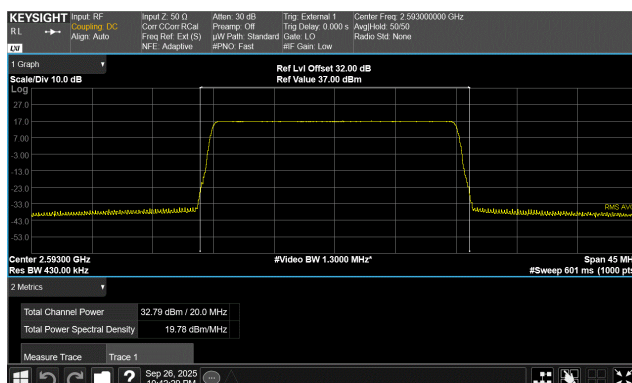
20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 3



20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 4

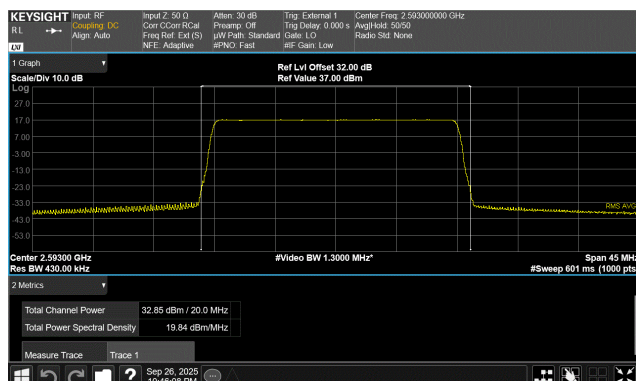


20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 5

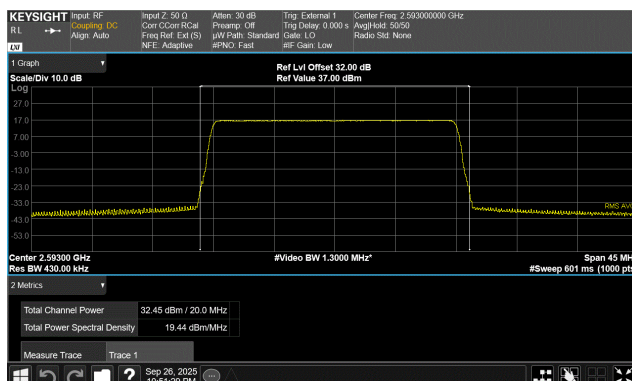


20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 6

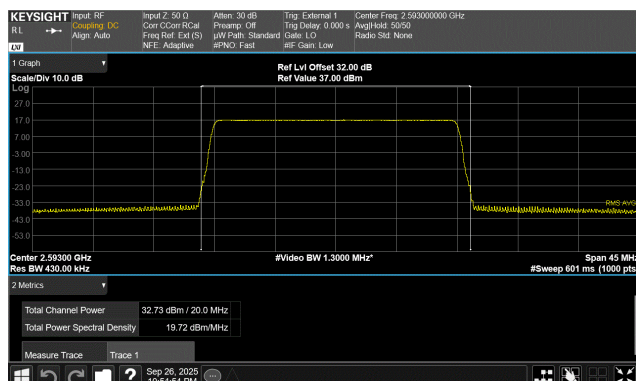
AVERAGE POWER – ALL PORTS



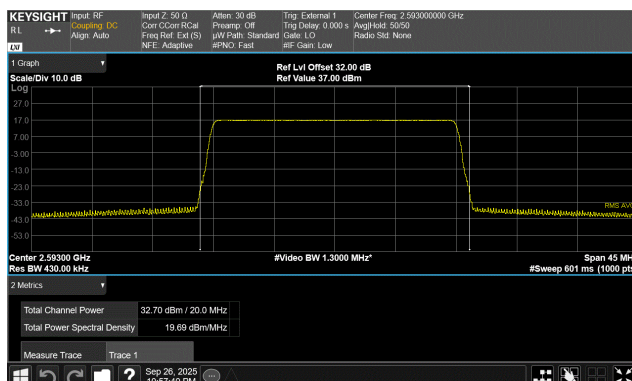
20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 7



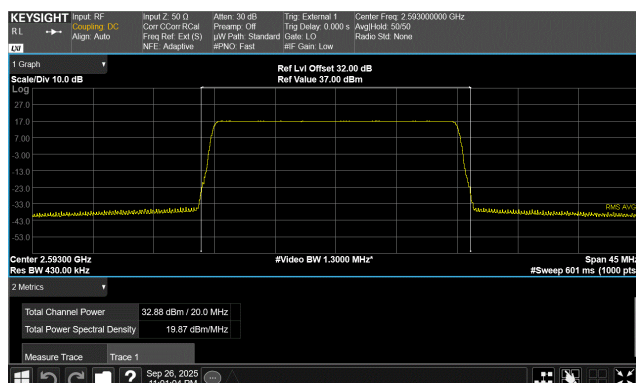
20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 8



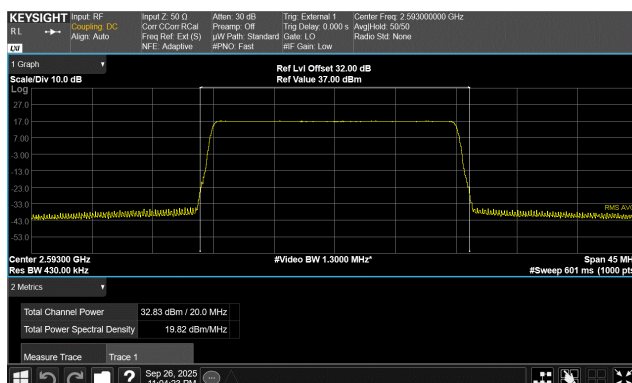
20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 9



20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 10

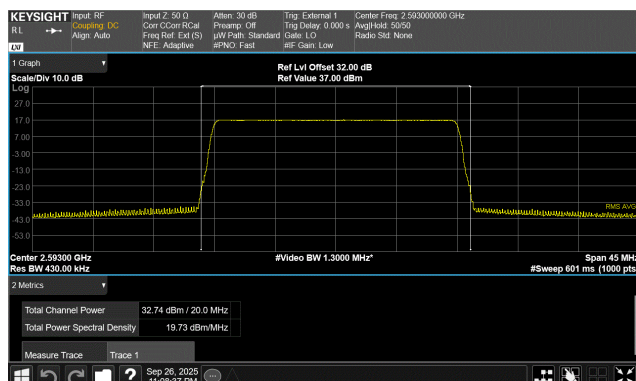


20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 11

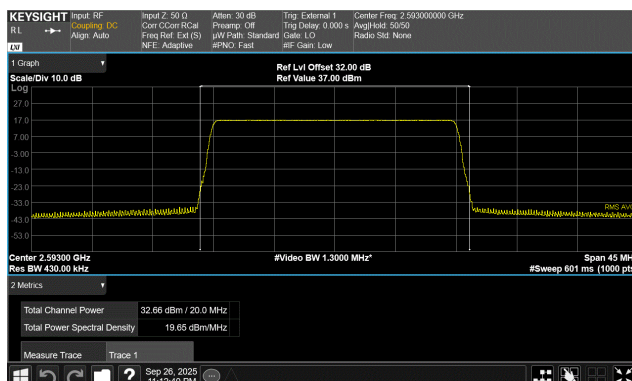


20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 12

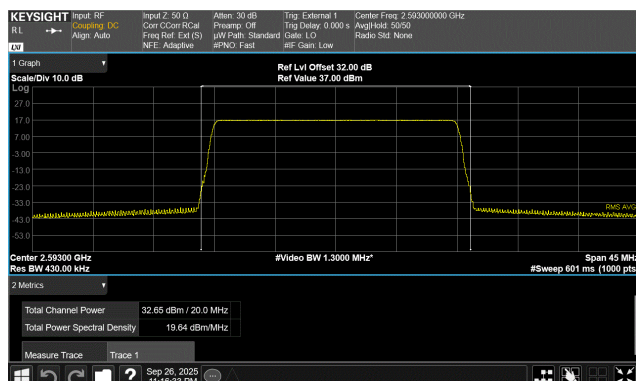
AVERAGE POWER – ALL PORTS



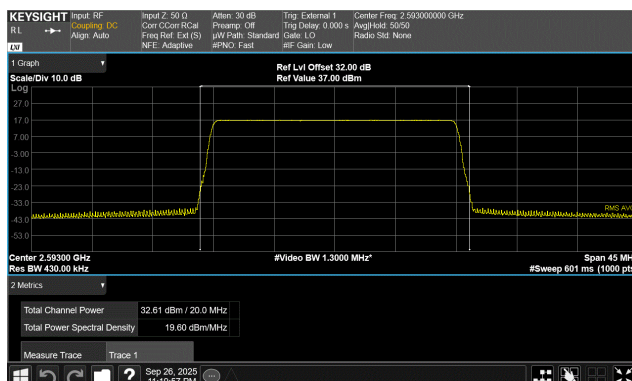
20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 13



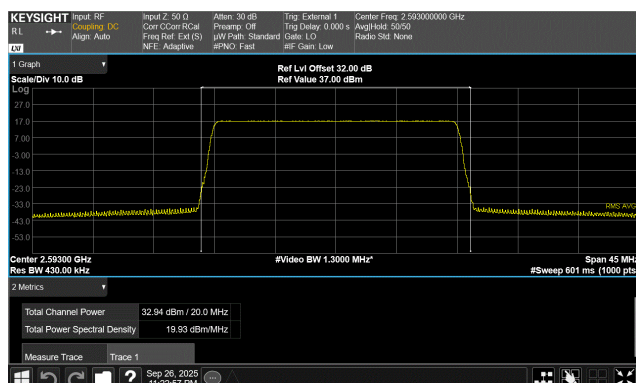
20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 14



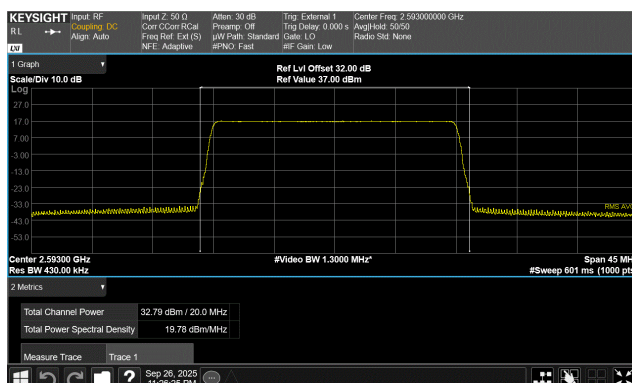
20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 15



20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 16

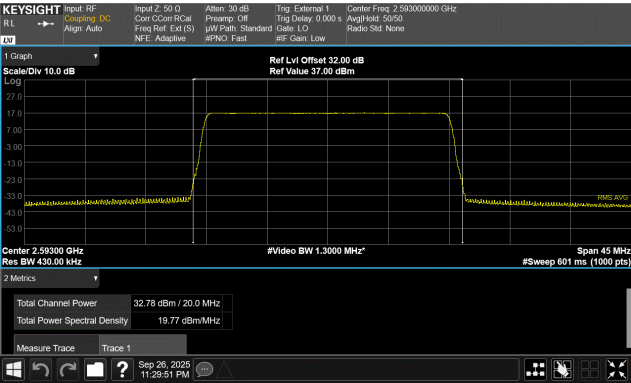


20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 17

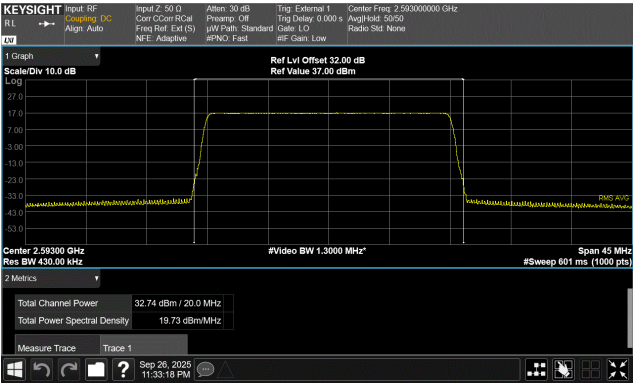


20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 18

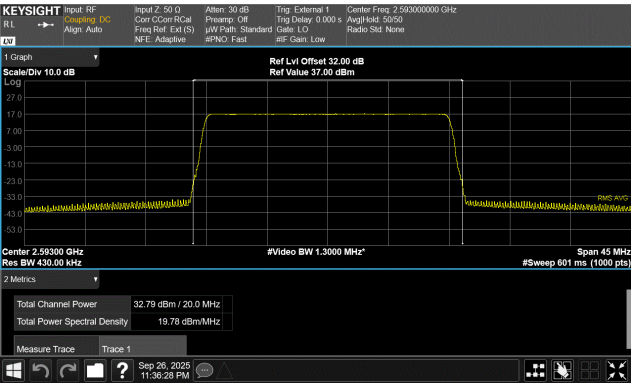
AVERAGE POWER – ALL PORTS



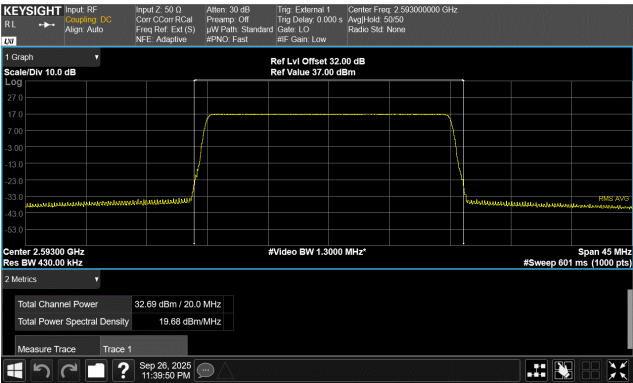
20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 19



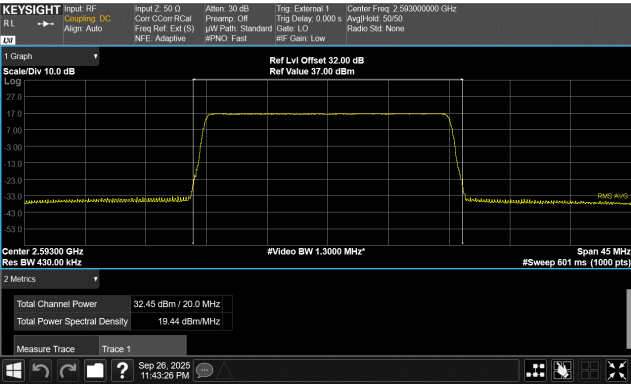
20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 20



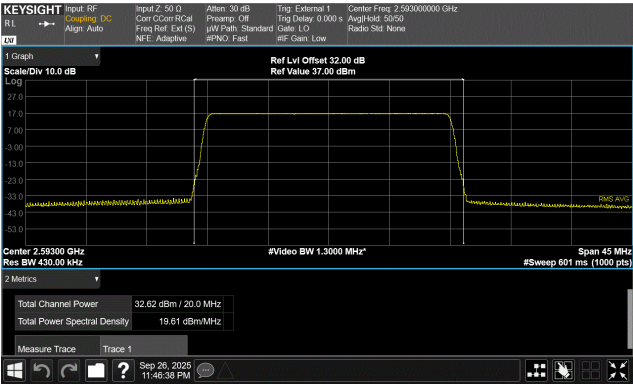
20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 21



20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 22

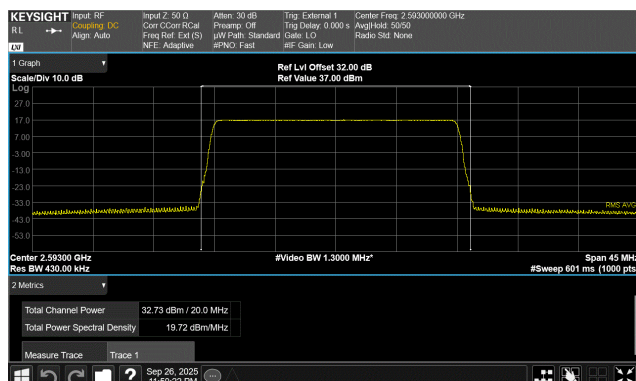


20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 23

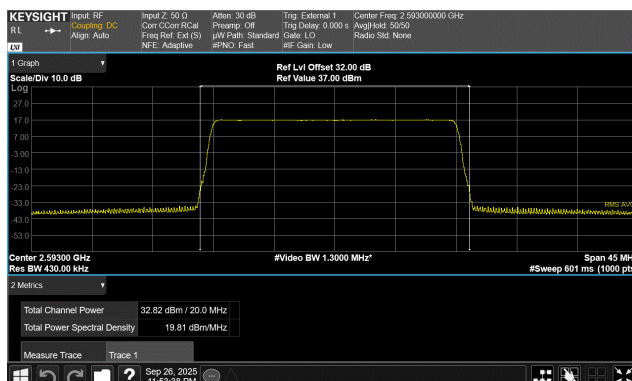


20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 24

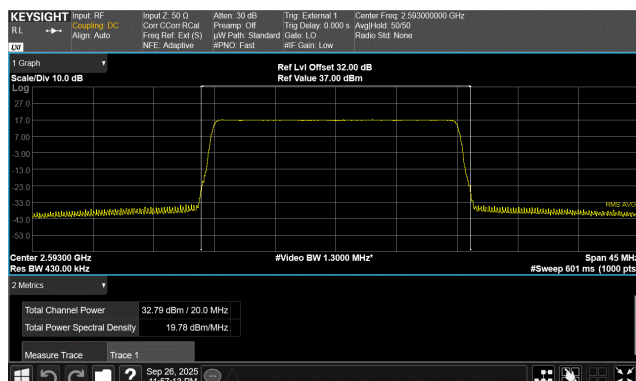
AVERAGE POWER – ALL PORTS



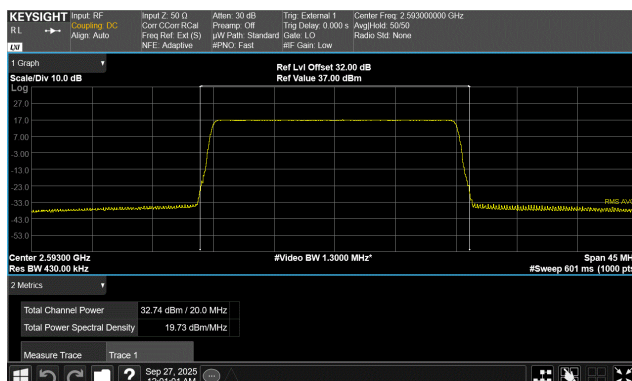
20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 25



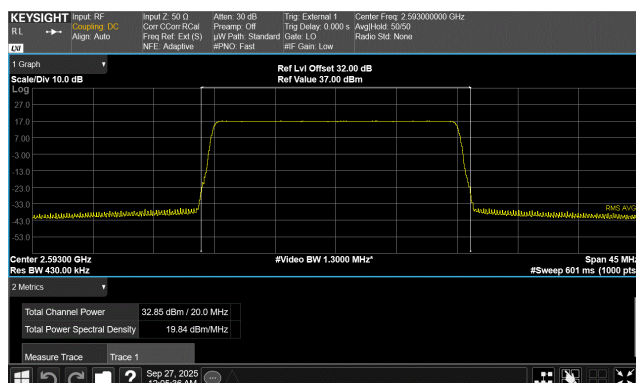
20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 26



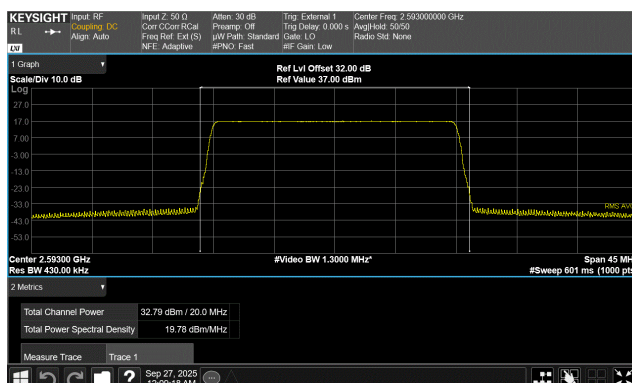
20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 27



20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 28

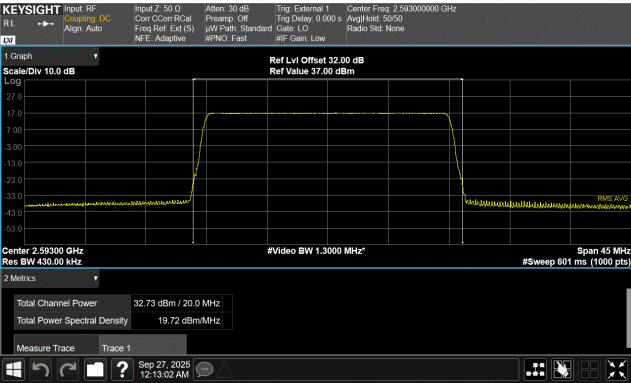


20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 29

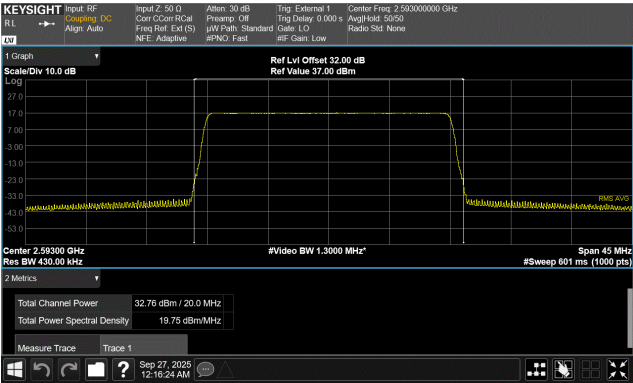


20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 30

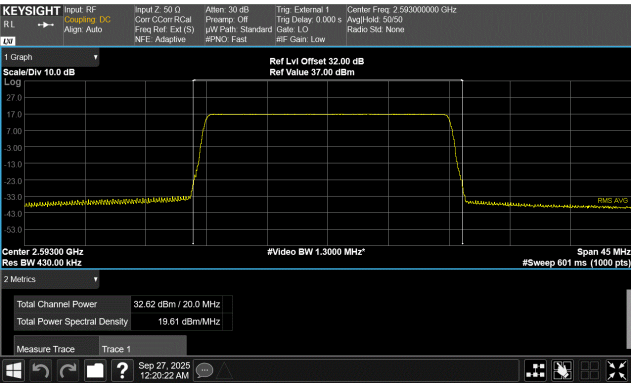
AVERAGE POWER – ALL PORTS



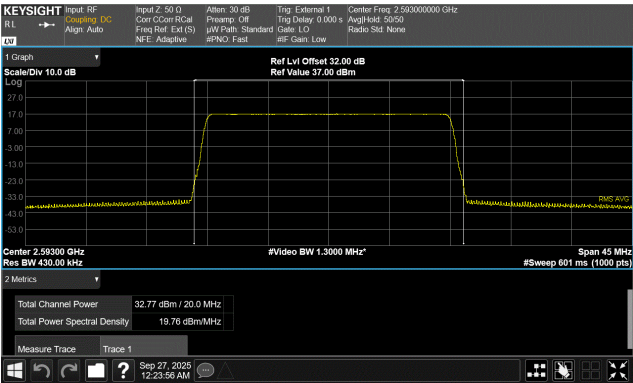
20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 31



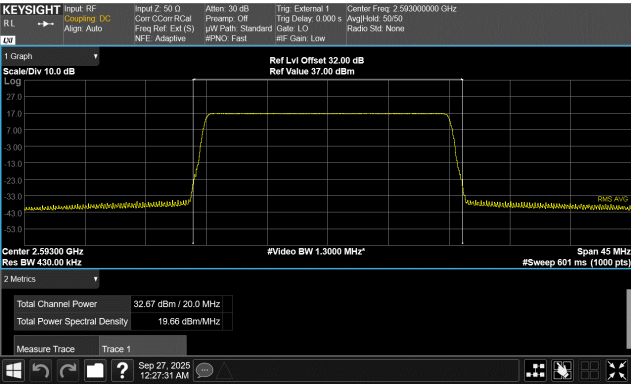
20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 32



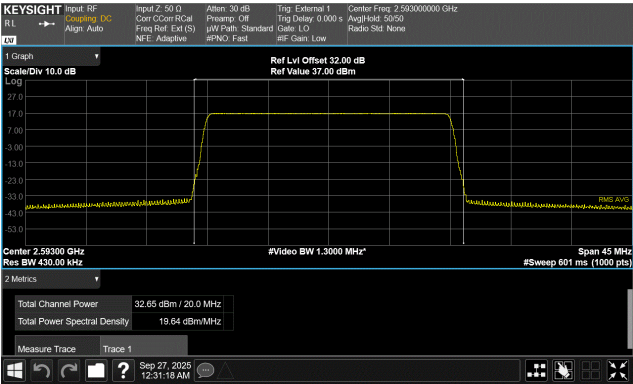
20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 33



20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 34

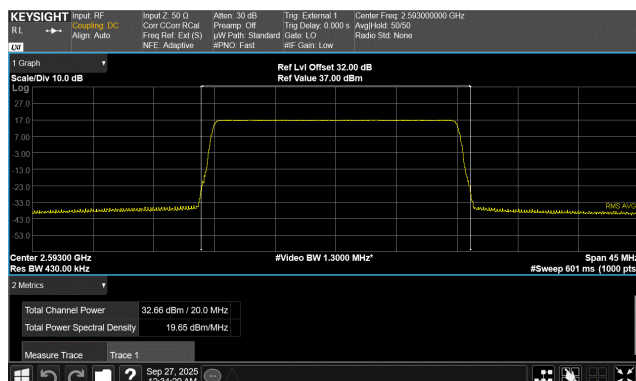


20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 35

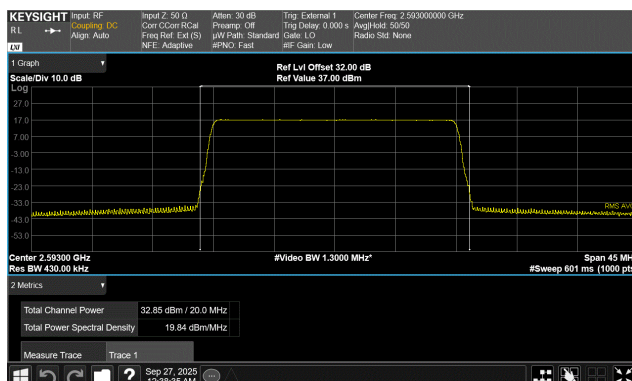


20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 36

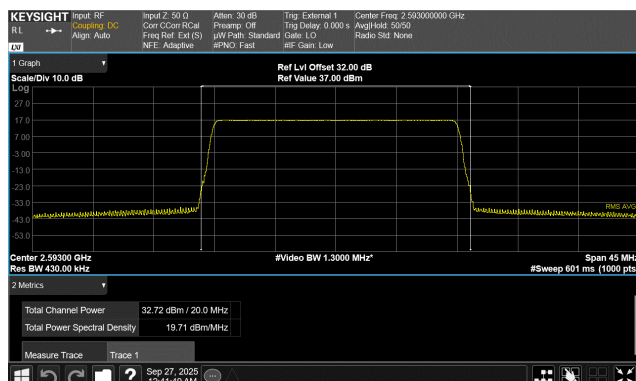
AVERAGE POWER – ALL PORTS



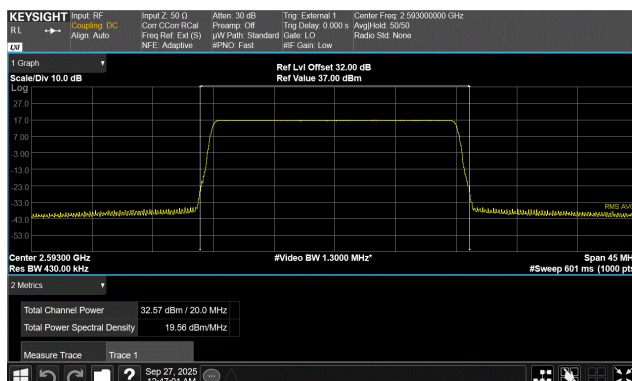
20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 37



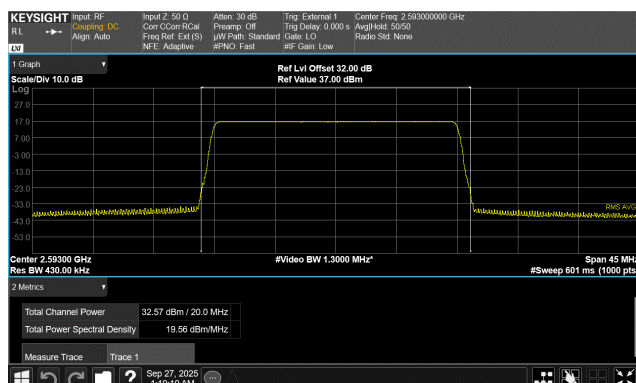
20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 38



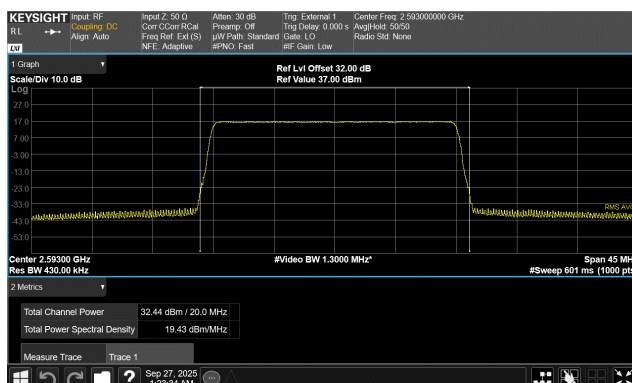
20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 39



20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 40

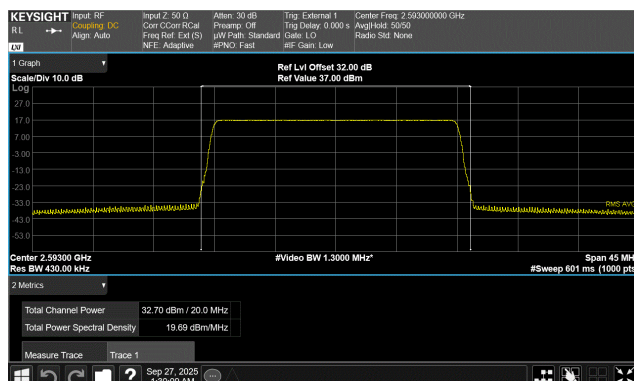


20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 41

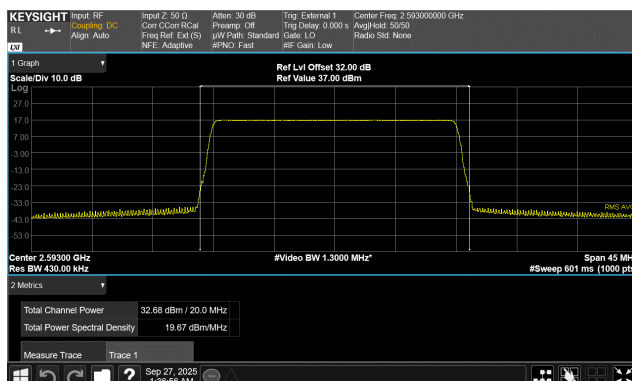


20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 42

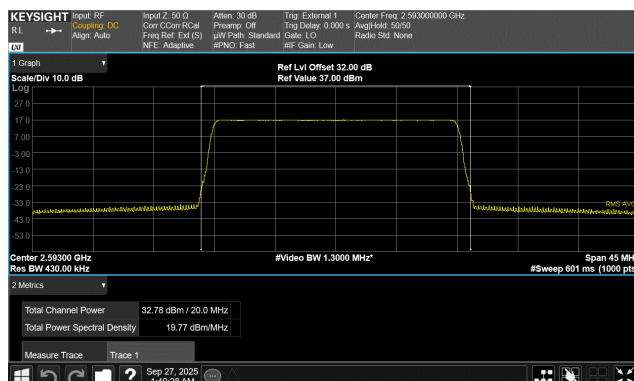
AVERAGE POWER – ALL PORTS



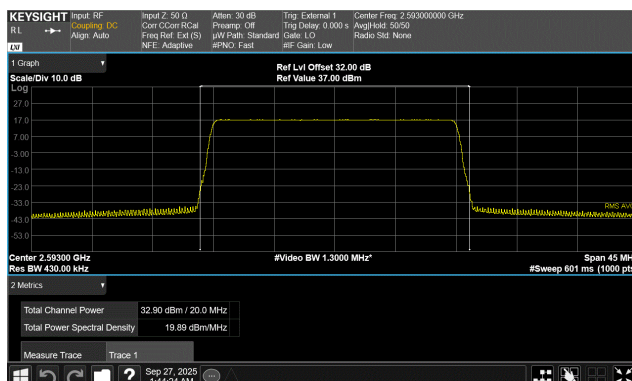
20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 43



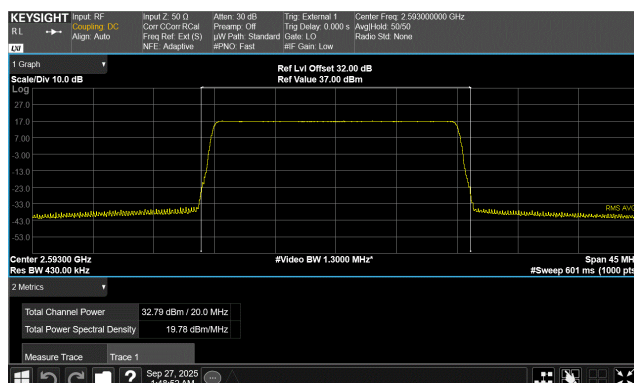
20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 44



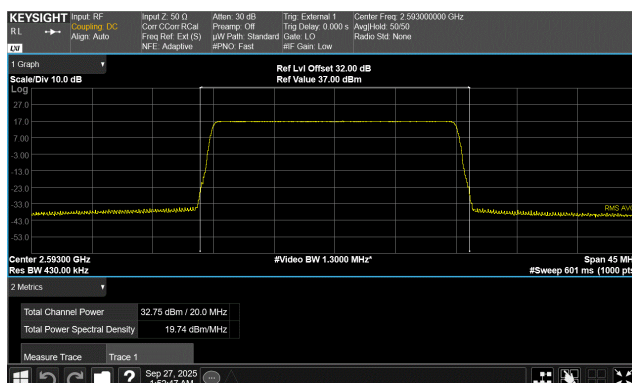
20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 45



20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 46

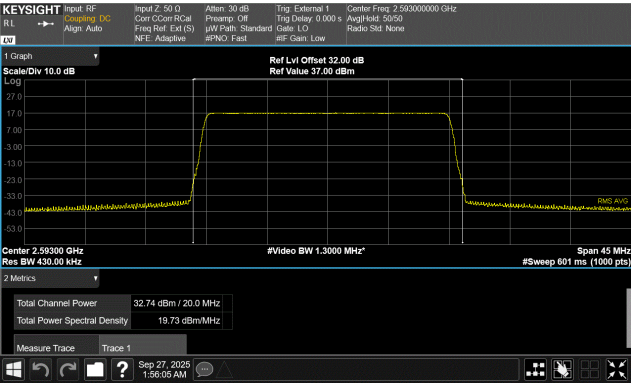


20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 47

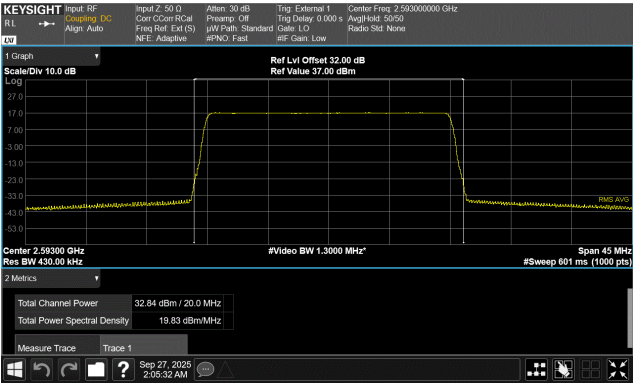


20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 48

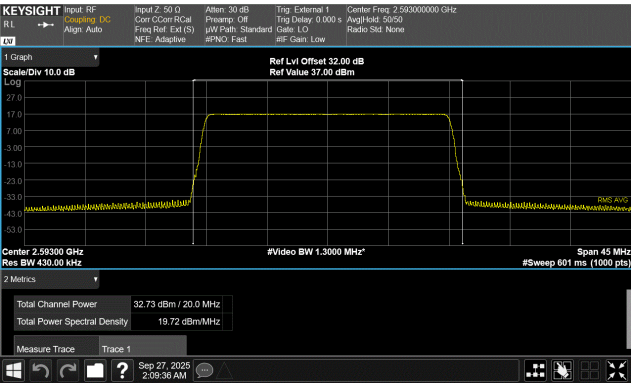
AVERAGE POWER – ALL PORTS



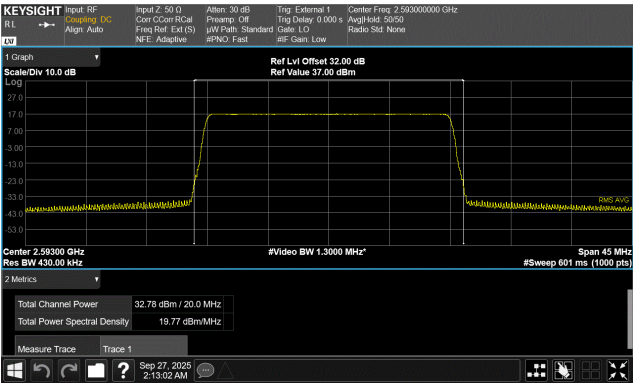
20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 49



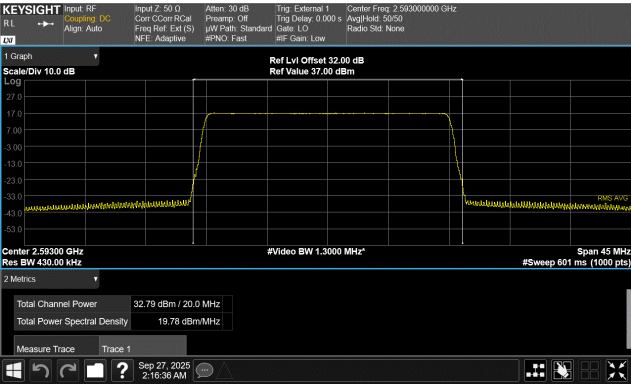
20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 50



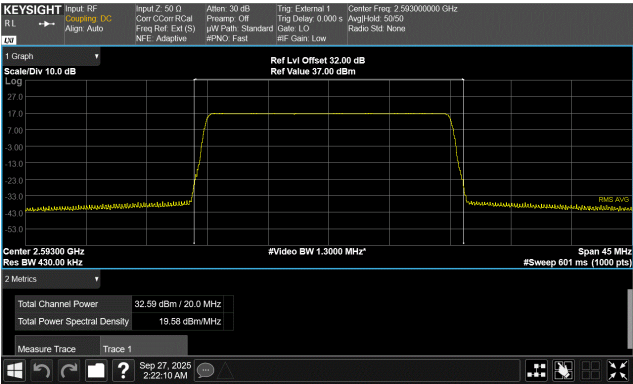
20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 51



20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 52

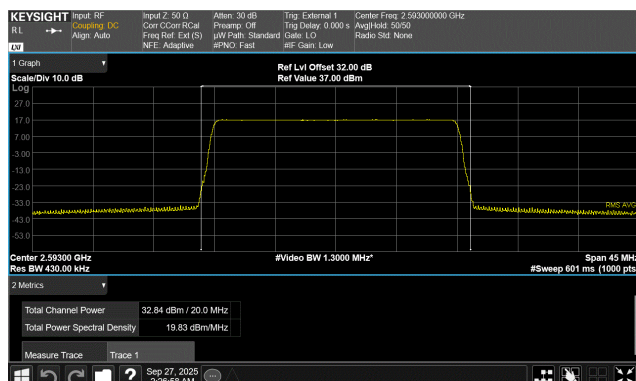


20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 53

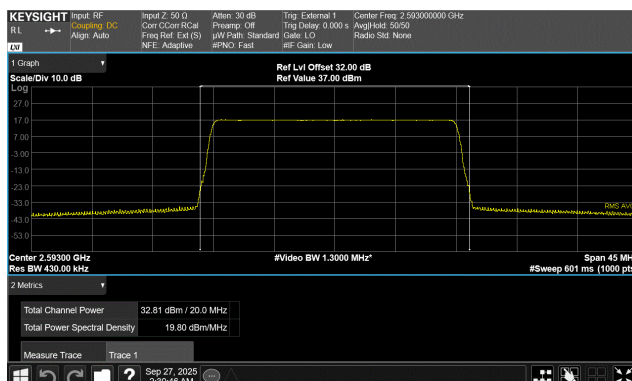


20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 54

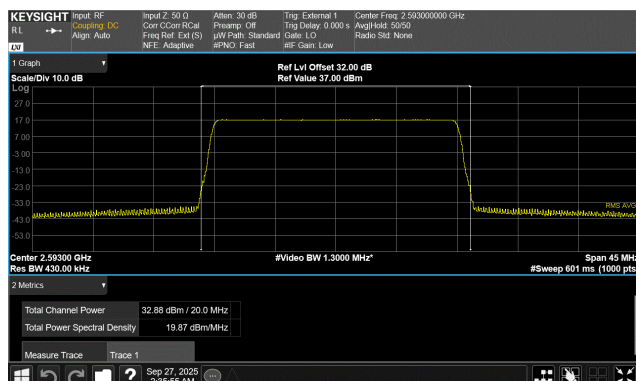
AVERAGE POWER – ALL PORTS



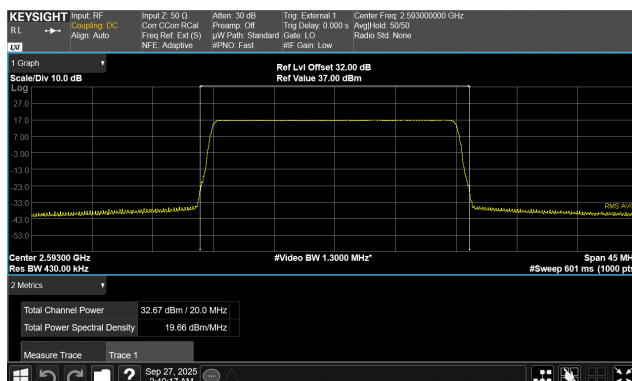
20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 55



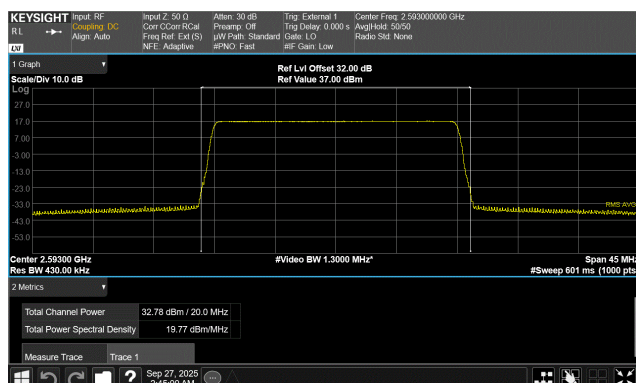
20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 56



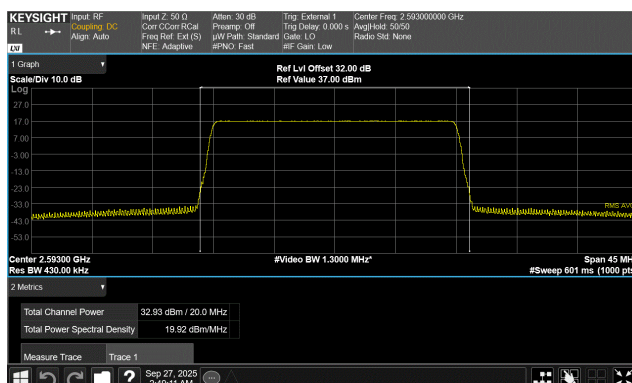
20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 57



20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 58



20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 59



20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz
Port 60