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Report On

FCC and IC Testing of the
Ericsson NR KRC 161 414/1 RRUS 32 B2 (1900 MHz) Base Station in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 24, Industry Canada RSS-GEN and Industry Canada RSS-133

COMMERCIAL-IN-CONFIDENCE

FCC ID: TA8AKRC161414-1
IC ID: 287AB-AS1614141

PREPARED BY	APPROVED BY	DATED
Daria Fiedorowicz Senior Administrator (Technical)	Steve Scarfe Authorised Signatory	04 December 2019

Document 75947298 Report 03 Issue 1 **December 2019**

CONTENTS

SECTION 1

REPORT INFORMATION

1.1 REPORT DETAILS

Manufacturer	Ericsson
Address	Torshamnsgatan 23 Kista SE-16480 Stockholm Sweden
Product Name & Product Number	RRUS 32 B2 & KRC 161 414/1
IC Model Name	AS1614141
Serial Number(s)	CF84764285
Software Version	CXP9013268/12 Rev. R77UB
Hardware Version	R1D
Test Specification/Issue/Date	FCC CFR 47 Part 2: 2018 FCC CFR 47 Part 24: 2018 Industry Canada RSS-GEN: Issue 5 Amdt 1: 2019 Industry Canada RSS-133: Issue 6: 2013, Amdt Jan 2018
Start of Test	31 October 2019
Finish of Test	07 November 2019
Name of Engineer(s)	Daniel Bishop
Related Document(s)	KDB 971168 D01 v02r02 KDB 662911 D01 v02r01

ENGINEERING STATEMENT

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported testing was carried out on a sample equipment to demonstrate compliance with FCC CFR 47 Part 24. The sample tested was found to comply with the requirements defined in the applied rules.

Test Engineer(s);

D. Bishop

Daniel Bishop

1.2 BRIEF SUMMARY OF RESULTS

A brief summary of results for each configuration, in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 24, Industry Canada RSS-GEN and Industry Canada RSS-133 is shown below.

Section	Specification Clause				Test Description	Result
	FCC CFR 47 Part 2	FCC CFR 47 Part 24	RSS-GEN	RSS-133		
2.1	2.1046	24.232 (a)	-	6.4	Maximum Peak Output Power and Peak to Average Ratio - Conducted	Pass
2.2	2.1049	24.238 (b)	6.6	-	Occupied Bandwidth	Pass
2.3	2.1051	24.238 (b)	-	6.5	Band Edge	Pass
2.4	2.1051	24.238 (a)	-	6.5	Transmitter Spurious Emissions	Pass

Measurement Uncertainty Decision Statement
Determination of conformity with the specification limits is based on the results of the compliance measurement and does not take into account measurement instrumentation uncertainty as defined in ANSI C63.26:2015 Clause 1.3.

1.3 CONFIGURATION DESCRIPTION

Configuration	RAT	No. Of carriers	Carrier Bandwidth	Carrier Frequency Configuration (MHz)		
				Bottom	Middle	Top
A	NR	1	5 MHz – SCS 15kHz	1932.5	-	1987.5
	NR	1	10 MHz – SCS 15kHz	1935.0	-	1985.0
	NR	1	15 MHz – SCS 15kHz	1937.5	-	1982.5
	NR	1	20 MHz – SCS 15kHz	1940.0	-	1980.0
	NR	1	20 MHz – SCS 60kHz	1940.0	-	1980.0
B	NR	2	20 MHz + 20 MHz SCS 15kHz	-	1950.0+1970.0	-

1.4 DECLARATION OF BUILD STATUS

DECLARATION OF BUILD STATUS

MAIN EUT	
MANUFACTURING DESCRIPTION	Radio Unit
MANUFACTURER	Ericsson AB
PRODUCT NAME	RRUS 32 B2
PART NUMBER	KRC161414/1
IC Model Name	AS1614141
SERIAL NUMBER	CF84764285
HARDWARE VERSION	R1D
SOFTWARE VERSION	CXP9013268/12 - R77UB
TRANSMITTER OPERATING RANGE	B2: 1930 - 1990 MHz
MODULATIONS	GSM: GMSK, AQPSK, 8PSK WCDMA: QPSK, 16QAM, 64QAM LTE & NR: QPSK, 16QAM, 64QAM, 256QAM
ITU DESIGNATION OF EMISSION	GSM: 245KGXW
	GSM: 245KG7W
	NB-IoT SA channel: 210KW7D
	WCDMA 5 MHz BW channel: 5M00F9W
	LTE 5 MHz BW channel: 5M00F9W
	LTE 10 MHz BW channel: 10M0F9W
	LTE 15 MHz BW channel: 15M0F9W
	LTE 20 MHz BW channel: 20M0F9W
	NR 5 MHz BW channel:4M47W7D
	NR 10 MHz BW channel: 9M29W7D
	NR 15 MHz BW channel:14M1W7D
	NR 20 MHz BW channel:18M9W7D
	NR 20+20 MHz BW channel CA: 38M8W7D
OUTPUT POWER (RMS) (W or dBm)	4 ports, 40W per port
	NB-IoT SA 1 x 20W per port
FCC ID	TA8AKRC161414-1
IC ID	287AB-AS1614141
TECHNICAL DESCRIPTION (a brief description of the intended use and operation)	Base station radio

Supports NB IoT for LTE (IB, GB, SA)

Signature Audun B Helle

Audun Helle

Date 2019-11-28

No responsibility will be accepted by TÜV SÜD Product Service UK Limited as to the accuracy of the information declared in this document by the manufacturer.

1.5 PRODUCT INFORMATION

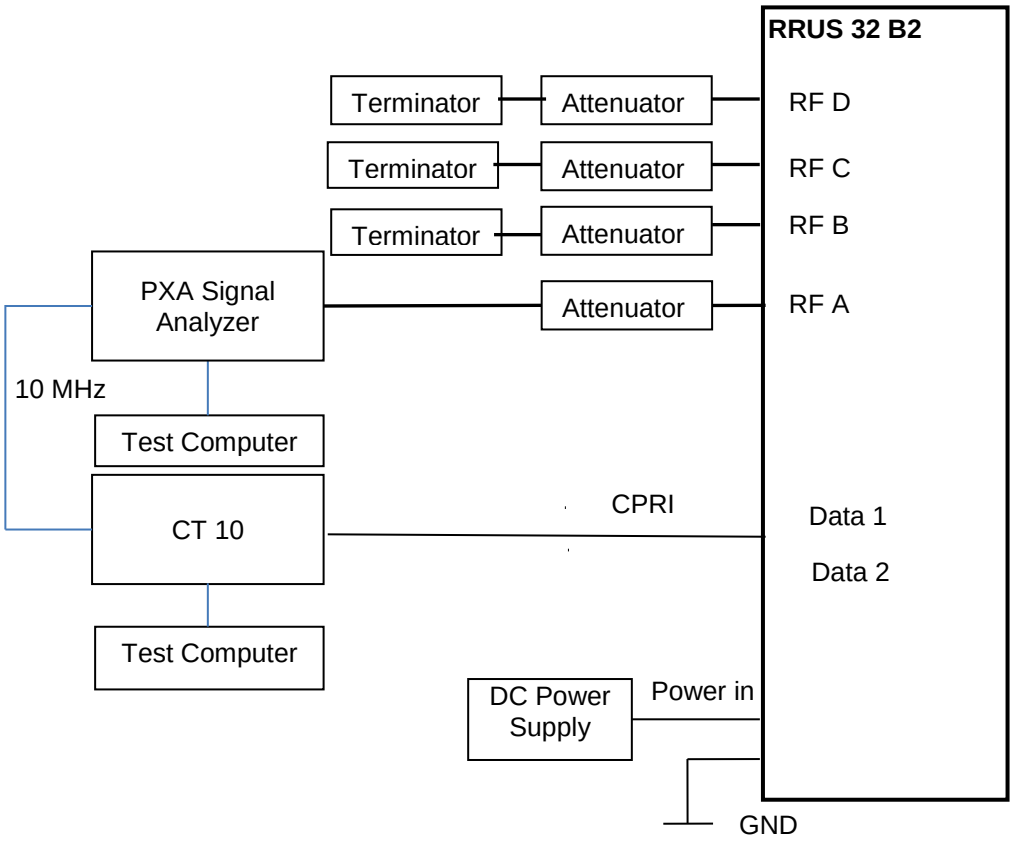
1.5.1 Technical Description

The Equipment Under Test (EUT) RRSU 32 B2 is an Ericsson AB Radio Unit working in the public mobile service 1900 MHz band which provides communication connections to 1900 MHz network. The RRSU 32 B2 operates from a -48V DC supply.

The Equipment Under Test (EUT) is shown in the photograph below. A full technical description can be found in the Manufacturer's documentation.

Equipment Under Test

1.6 TEST SETUP



1.7 TEST CONDITIONS

For all tests the EUT was set up in accordance with the relevant test standard and to represent typical operating conditions. Tests were applied with the EUT situated in a shielded enclosure, test laboratories or a chamber as appropriate.

The EUT was powered from a -48V DC supply.

FCC Measurement Facility Registration Number
90987 Octagon House, Fareham Test Laboratory

Industry Canada Accreditation
IC2932B-1 Octagon House, Fareham Test Laboratory

1.8 DEVIATION FROM THE STANDARD

No deviations from the applicable test standards or test plan were made during testing.

1.9 MODIFICATION RECORD

No modifications were made to the EUT during testing.

1.10 ALTERNATIVE TEST SITE

Under our group UKAS Accreditation, TÜV SÜD conducted the following tests at Ericsson in Fareham, UK.

Test Name	Name of Engineer(s)
Maximum Peak Output Power and Peak to Average Ratio - Conducted	Daniel Bishop
Occupied Bandwidth	Daniel Bishop
Band Edge	Daniel Bishop
Transmitter Spurious Emissions	Daniel Bishop

SECTION 2

TEST DETAILS

2.1 MAXIMUM PEAK OUTPUT POWER AND PEAK TO AVERAGE RATIO - CONDUCTED

2.1.1 Specification Reference

FCC CFR 47 Part 2, Clause 2.1046
FCC CFR 47 Part 24, Clause 24.232 (a)
Industry Canada RSS-133, Clause 6.4

2.1.2 Date of Test and Modification State

31 October 2019 - Modification State 0

2.1.3 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.1.4 Environmental Conditions

Ambient Temperature	21.9°C
Relative Humidity	45.7%

2.1.5 Test Method

All measurements were made in accordance with FCC KDB 971168 D01, clause 5.2.1 and summed in accordance with FCC KDB 662911 D01.

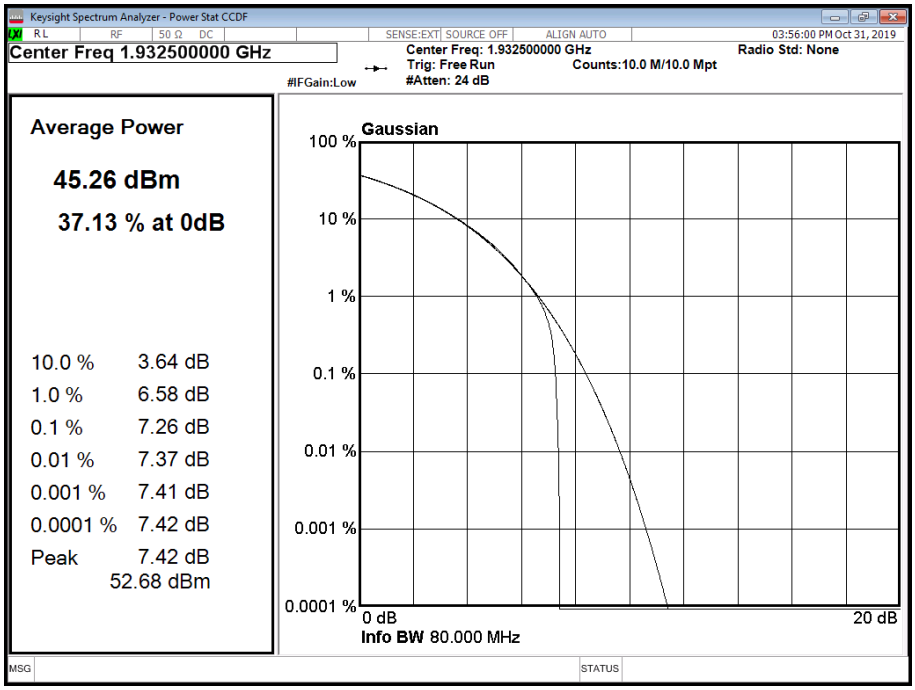
2.1.6 Test Results

Configuration A

Maximum Output Power 46 dBm

Antenna	NR Modulation	NR Carrier Bandwidth	Peak to Average Ratio (PAR) / Output Power		
			Channel Position B		
			PAR (dB)	Average Power	
				dBm	dBm/MHz
A	QPSK	5.0 MHz 15 kHz SCS	7.26	45.29	39.42
A	QPSK	10.0 MHz 15 kHz SCS	-	45.21	-
A	QPSK	15.0 MHz 15 kHz SCS	-	45.12	-
A	QPSK	20.0 MHz 15 kHz SCS	-	45.23	-
A	QPSK	20.0 MHz 60 kHz SCS	-	45.30	-

Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 5.0 MHz 15 kHz SCS - Channel Position B

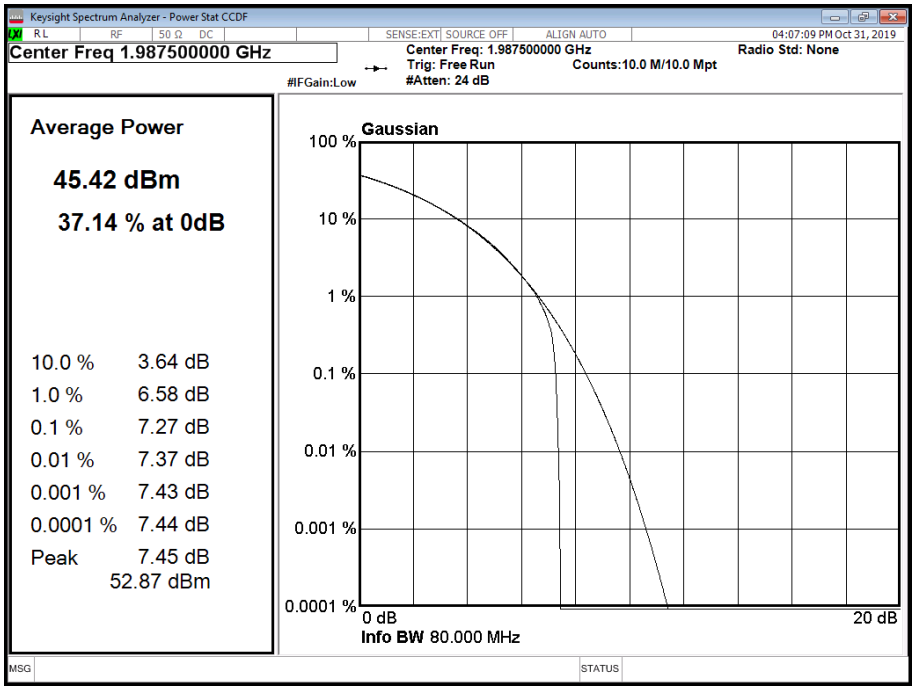


Configuration A

Maximum Output Power 46 dBm

Antenna	NR Modulation	NR Carrier Bandwidth	Peak to Average Ratio (PAR) / Output Power		
			Channel Position T		
			PAR (dB)	Average Power	
				dBm	dBm/MHz
A	QPSK	5.0 MHz 15 kHz SCS	7.27	45.55	39.52
A	QPSK	10.0 MHz 15 kHz SCS	-	45.48	-
A	QPSK	15.0 MHz 15 kHz SCS	-	45.33	-
A	QPSK	20.0 MHz 15 kHz SCS	-	45.42	-
A	QPSK	20.0 MHz 60 kHz SCS	-	45.42	-

Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 5.0 MHz 15 kHz SCS - Channel Position T



Configuration B

Maximum Output Power 46 dBm

Antenna	NR Modulation	NR Carrier Bandwidth	Peak to Average Ratio (PAR) / Output Power		
			Channel Position M		
			PAR (dB)	Average Power	
				dBm	dBm/MHz
A	QPSK	20.0 +20.0 MHz 15 kHz SCS	-	44.32	-

Limit	
Peak Power	≤500 W or ≤+57 dBm
Peak to Average Ratio	13 dB

2.2 OCCUPIED BANDWIDTH

2.2.1 Specification Reference

FCC CFR 47 Part 2, Clause 2.1049
FCC CFR 47 Part 24, Clause 24.238 (b)
Industry Canada RSS-GEN, Clause 6.6

2.2.2 Date of Test and Modification State

31 October 2019 - Modification State 0

2.2.3 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.2.4 Environmental Conditions

Ambient Temperature	21.9°C
Relative Humidity	45.7%

2.2.5 Test Method

All measurements were made in accordance with FCC KDB 971168 D01.

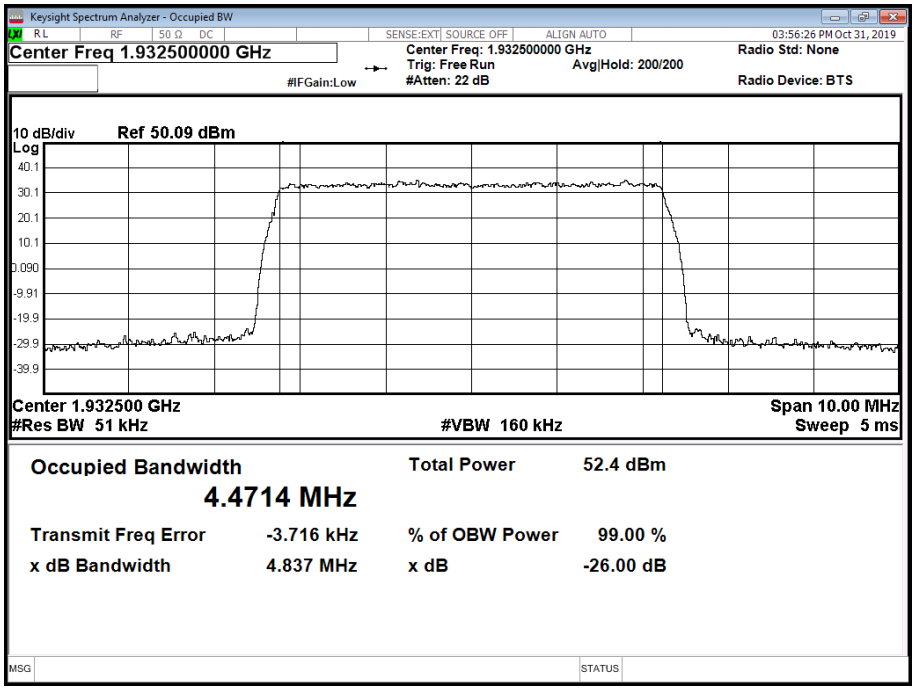
2.2.6 Test Results

Configuration A

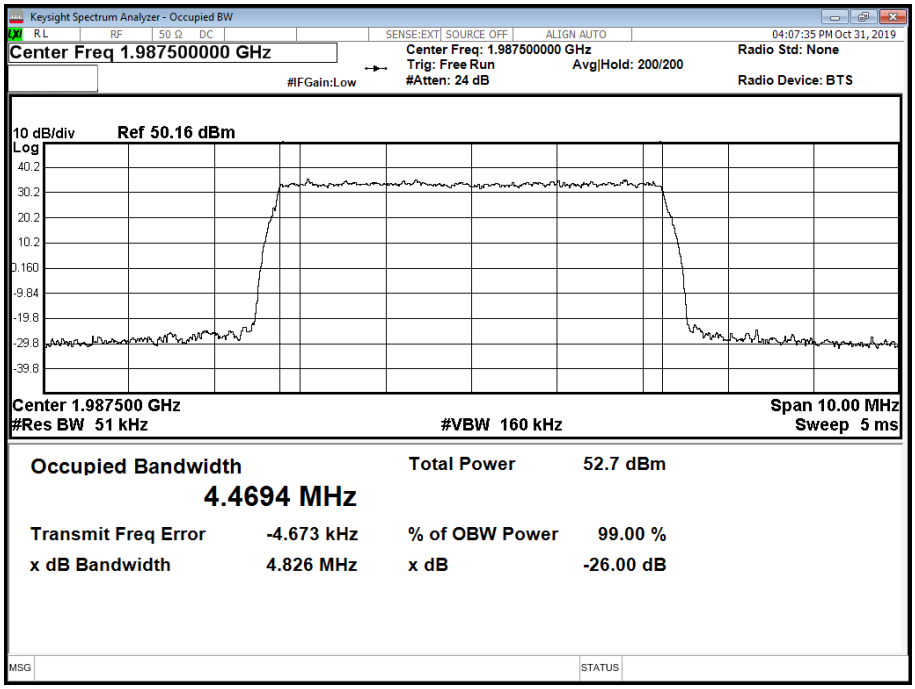
Maximum Output Power 46 dBm

Antenna	NR Modulation	NR Carrier Bandwidth	Result (KHz)			
			Channel Position B		Channel Position T	
			Occupied Bandwidth	-26 dB Bandwidth	Occupied Bandwidth	-26 dB Bandwidth
A	QPSK	5.0 MHz 15 kHz SCS	4,471.41	4,837.00	4,469.43	4,826.03
A	QPSK	10.0 MHz 15 kHz SCS	9,284.69	9,774.01	9,291.55	9,777.70
A	QPSK	15.0 MHz 15 kHz SCS	14,143.52	14,789.83	14,145.07	14,758.28
A	QPSK	20.0 MHz 15 kHz SCS	18,909.54	19,730.46	18,927.75	19,749.27
A	QPSK	20.0 MHz 60 kHz SCS	17,212.05	19,488.63	17,224.27	19,528.92

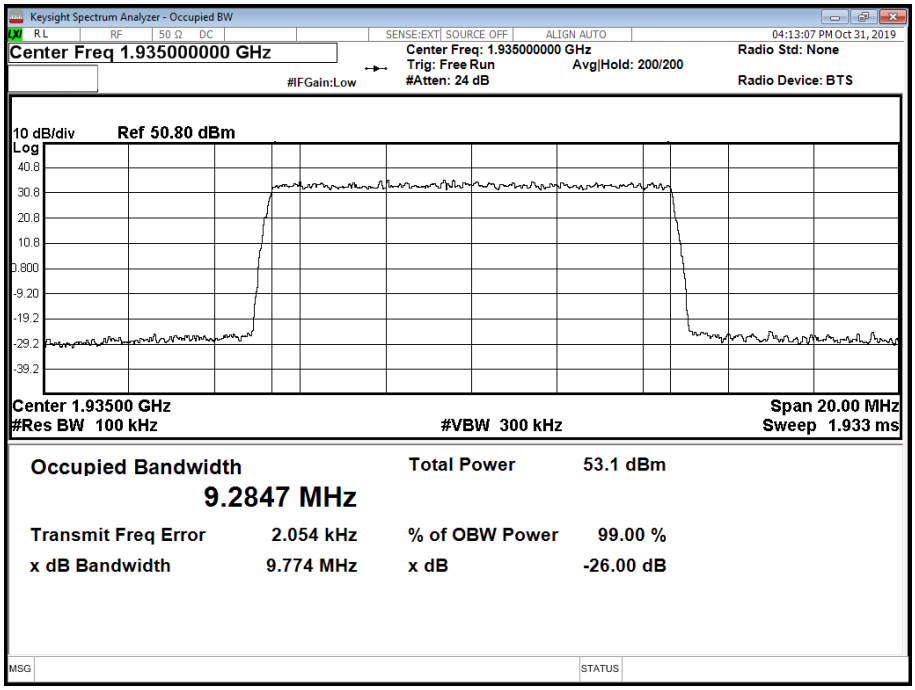
Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 5.0 MHz 15 kHz SCS - Channel Position B



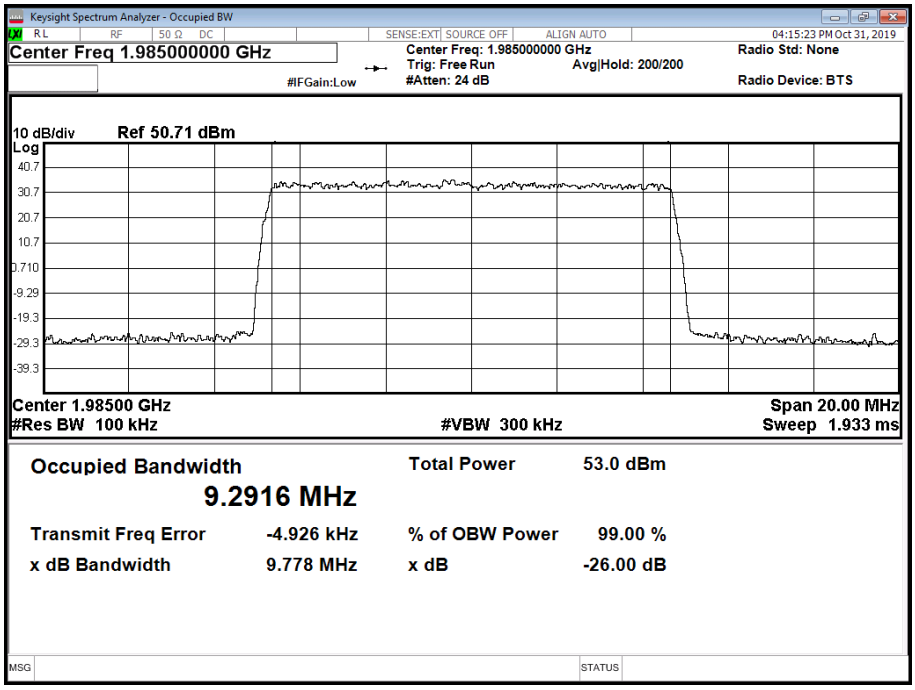
Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 5.0 MHz 15 kHz SCS - Channel Position T



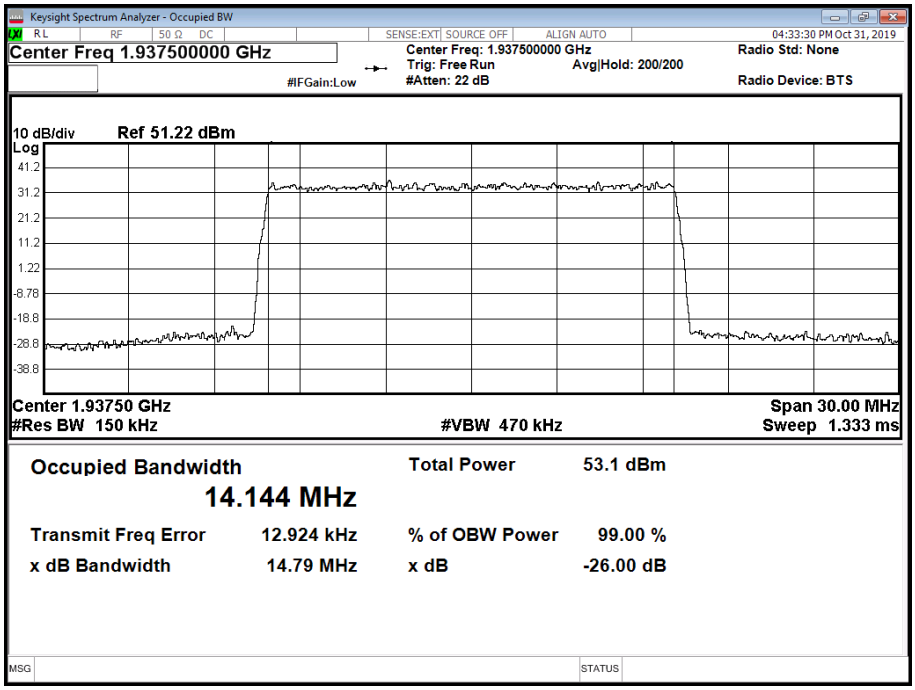
Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 10.0 MHz 15 kHz SCS - Channel Position B



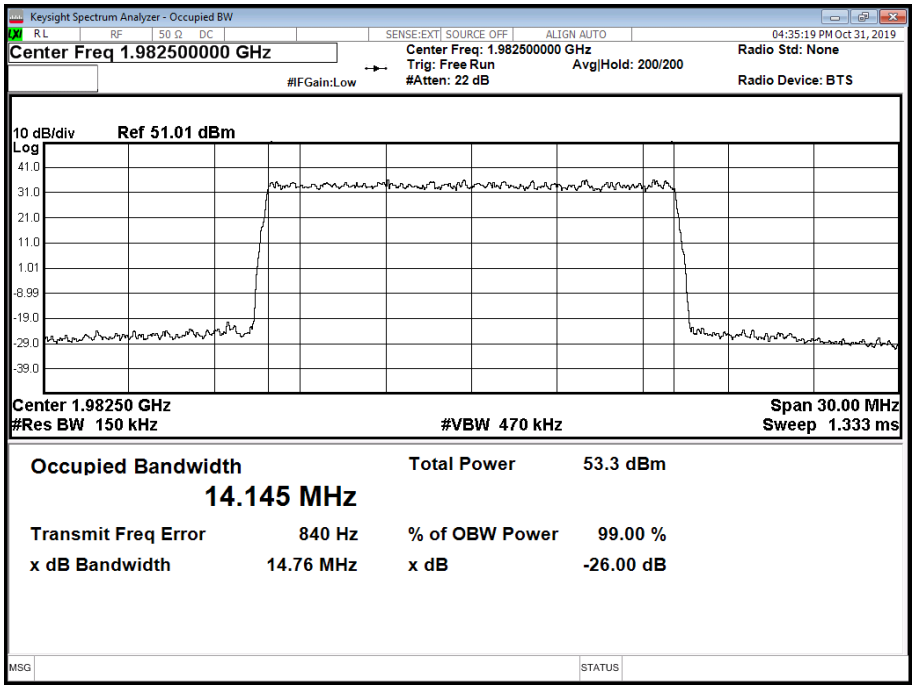
Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 10.0 MHz 15 kHz SCS - Channel Position T



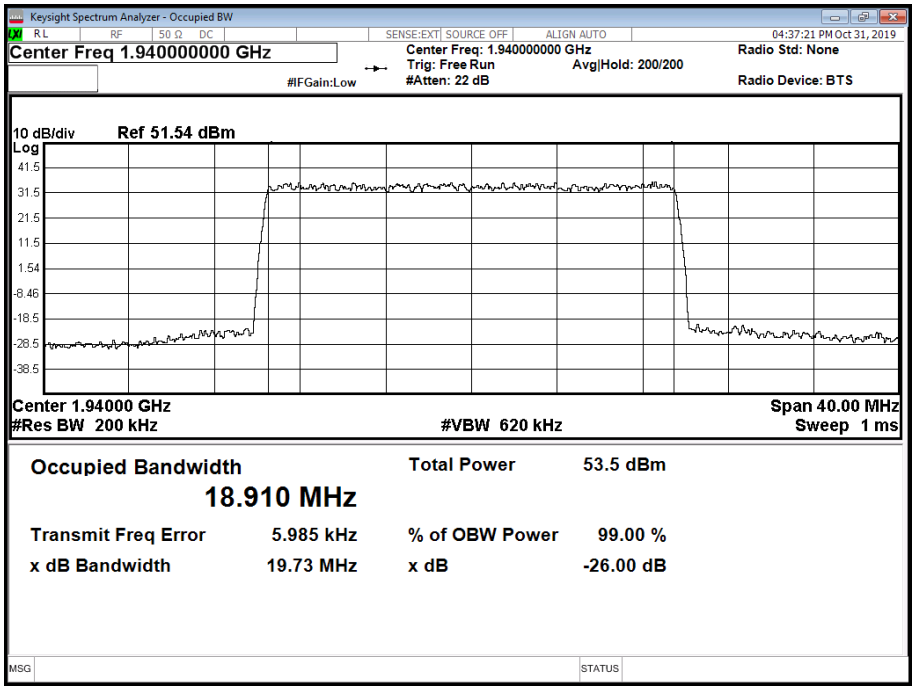
Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 15.0 MHz 15 kHz SCS - Channel Position B



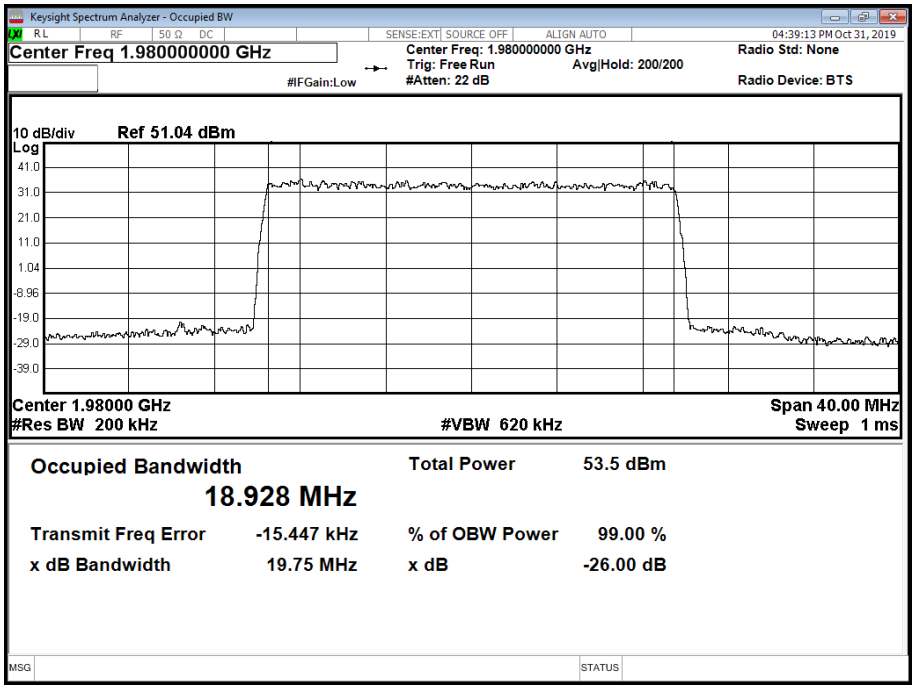
Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 15.0 MHz 15 kHz SCS - Channel Position T



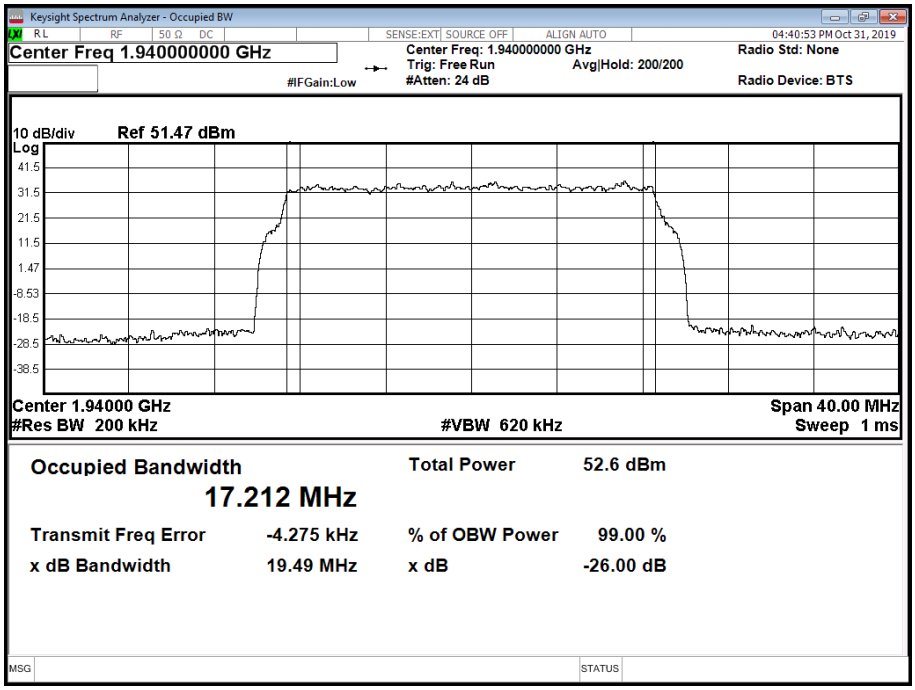
Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 20.0 MHz 15 kHz SCS - Channel Position B



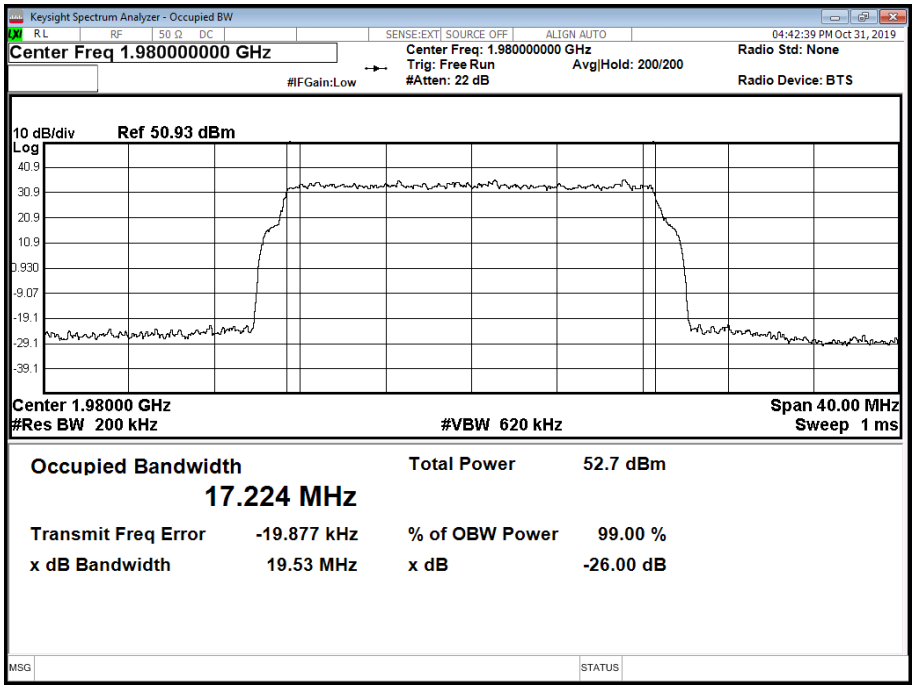
Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 20.0 MHz 15 kHz SCS - Channel Position T



Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 20.0 MHz 60 kHz SCS - Channel Position B



Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 20.0 MHz 60 kHz SCS - Channel Position T

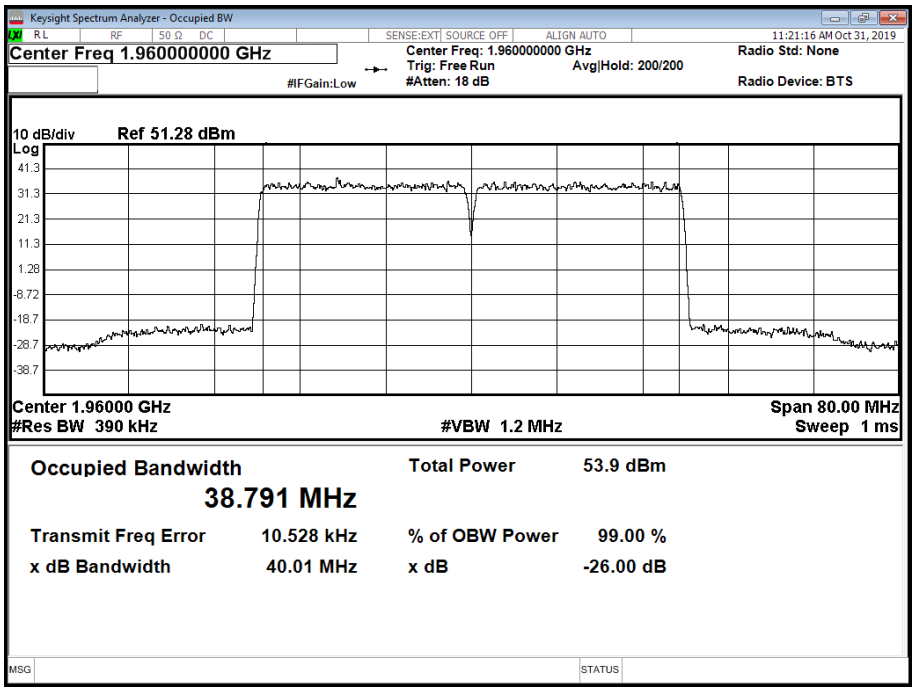


Configuration B

Maximum Output Power 46 dBm

Antenna	NR Modulation	NR Carrier Bandwidth	Result (KHz)					
			Channel Position B		Channel Position M		Channel Position T	
			Occupied Bandwidth	-26 dB Bandwidth	Occupied Bandwidth	-26 dB Bandwidth	Occupied Bandwidth	-26 dB Bandwidth
A	QPSK	20.0 +20.0 MHz 15 kHz SCS	-	-	38.82	40.03	-	-

Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 20.0 +20.0 MHz 15 kHz SCS - Channel Position M



2.3 BAND EDGE

2.3.1 Specification Reference

FCC CFR 47 Part 2, Clause 2.1051
FCC CFR 47 Part 24, Clause 24.238 (b)
Industry Canada RSS-133, Clause 6.5

2.3.2 Date of Test and Modification State

31 October 2019 - Modification State 0

2.3.3 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.3.4 Environmental Conditions

Ambient Temperature	21.9°C
Relative Humidity	45.7%

2.3.5 Test Method

All measurements were made in accordance with FCC KDB 971168 D01.

Each antenna port has been declared as being equivalent, therefore measurements were made on one antenna port only. To account for this, the limit was tightened by 10 * Log(N), where N is equal to the number of MIMO antenna ports.

For four ports, the limit was calculated as being -13 dBm - 10 * Log (4) = -19 dBm.

For dual ports, the limit was calculated as being -13 dBm - 10 * Log (2) = -16 dBm.

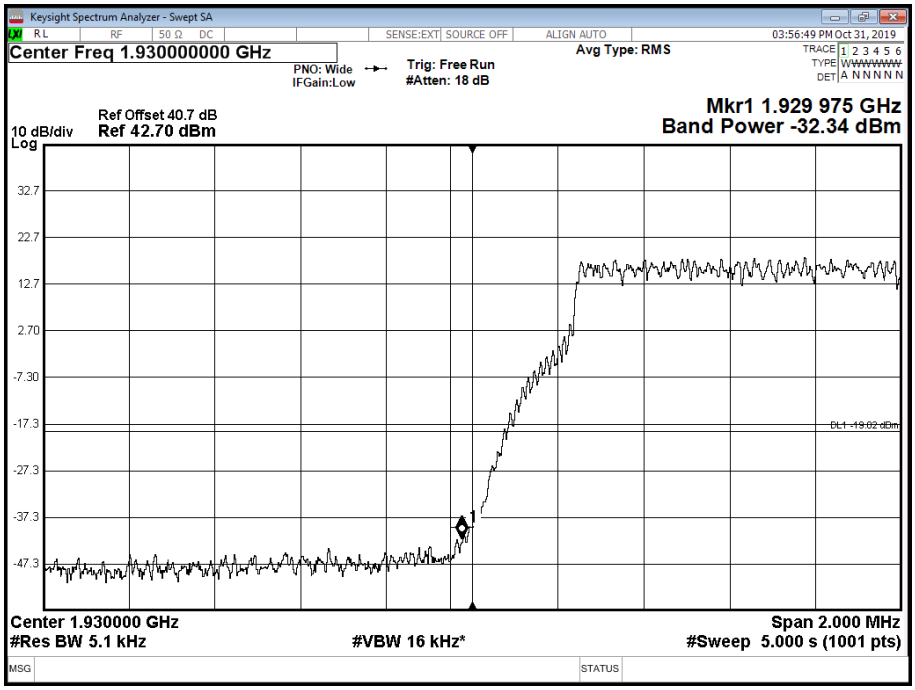
2.3.6 Test Results

Configuration A

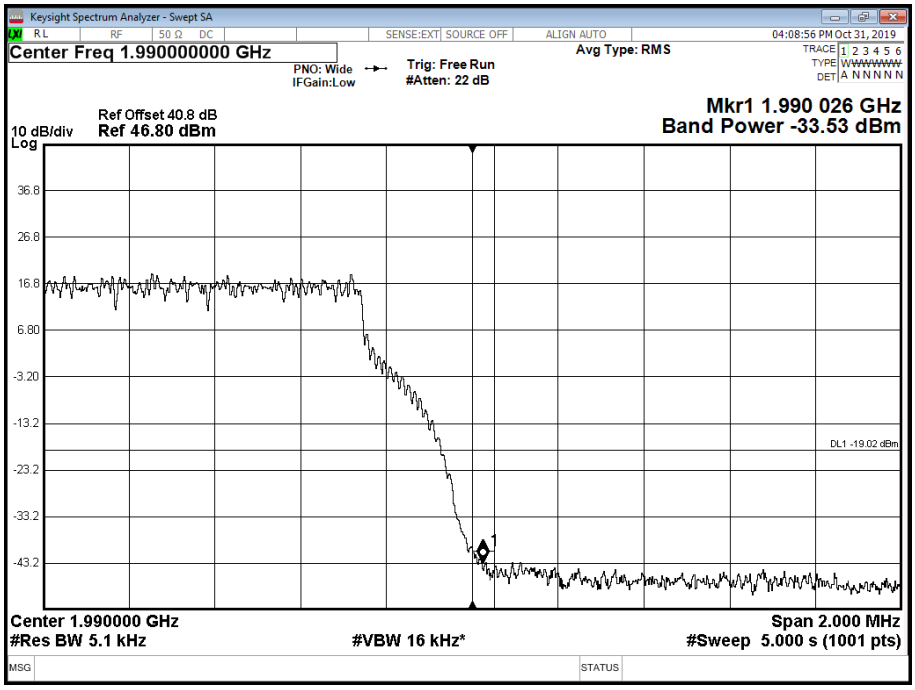
Maximum Output Power 46 dBm

Antenna	NR Modulation	NR Carrier Bandwidth	Band Edge (MHz)	
			Channel Position B	Channel Position T
A	QPSK	5.0 MHz 15 kHz SCS	1,932.5	1,987.5
A	QPSK	10.0 MHz 15 kHz SCS	1,935.0	1,985.0
A	QPSK	15.0 MHz 15 kHz SCS	1,937.5	1,982.5
A	QPSK	20.0 MHz 15 kHz SCS	1,940.0	1,980.0
A	QPSK	20.0 MHz 60 kHz SCS	1,940.0	1,980.0

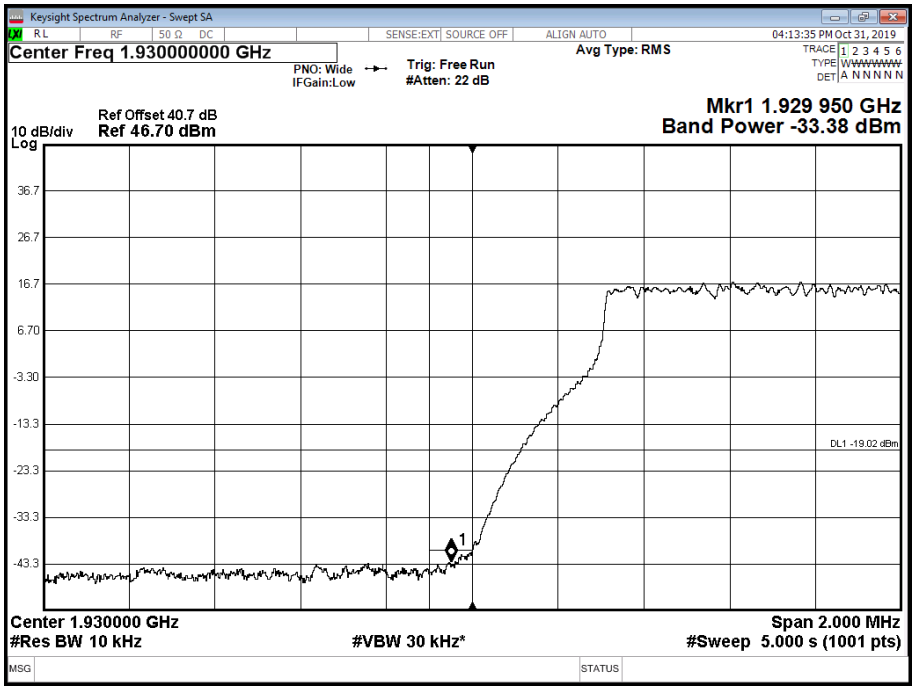
Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 5.0 MHz 15 kHz SCS - Channel Position B



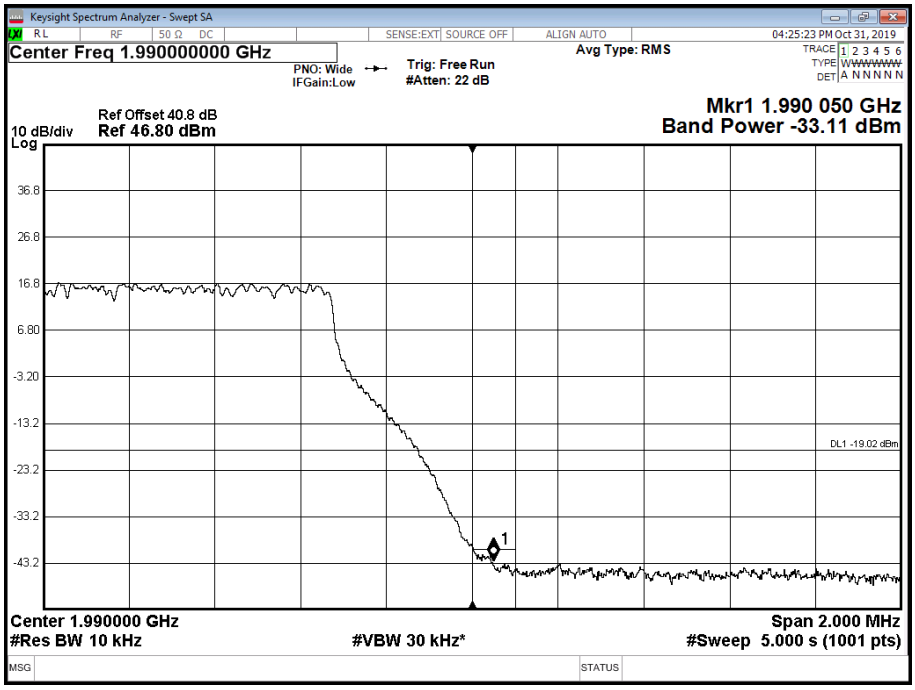
Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 5.0 MHz 15 kHz SCS - Channel Position T



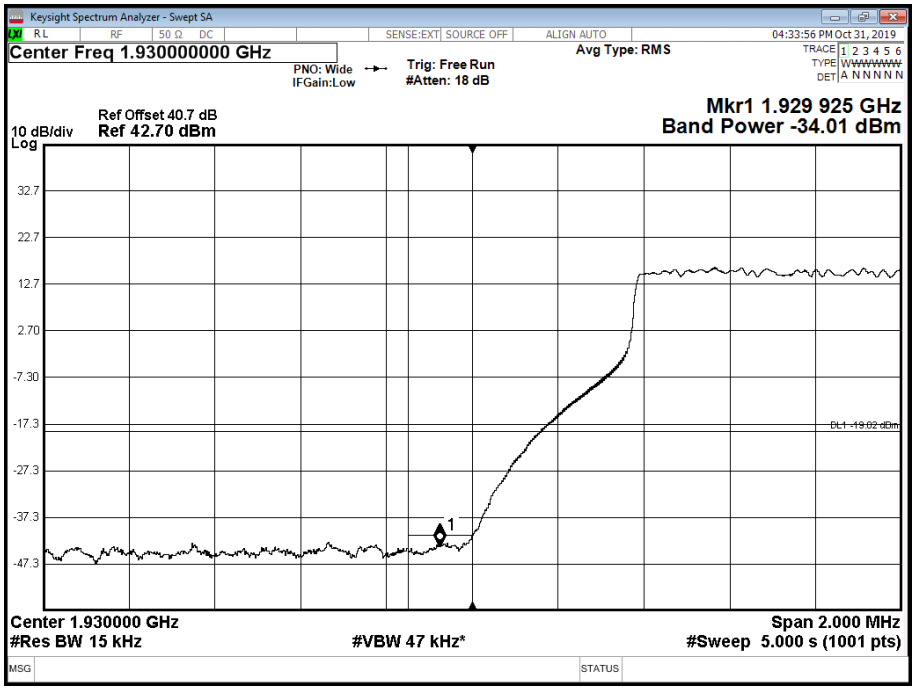
Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 10.0 MHz 15 kHz SCS - Channel Position B



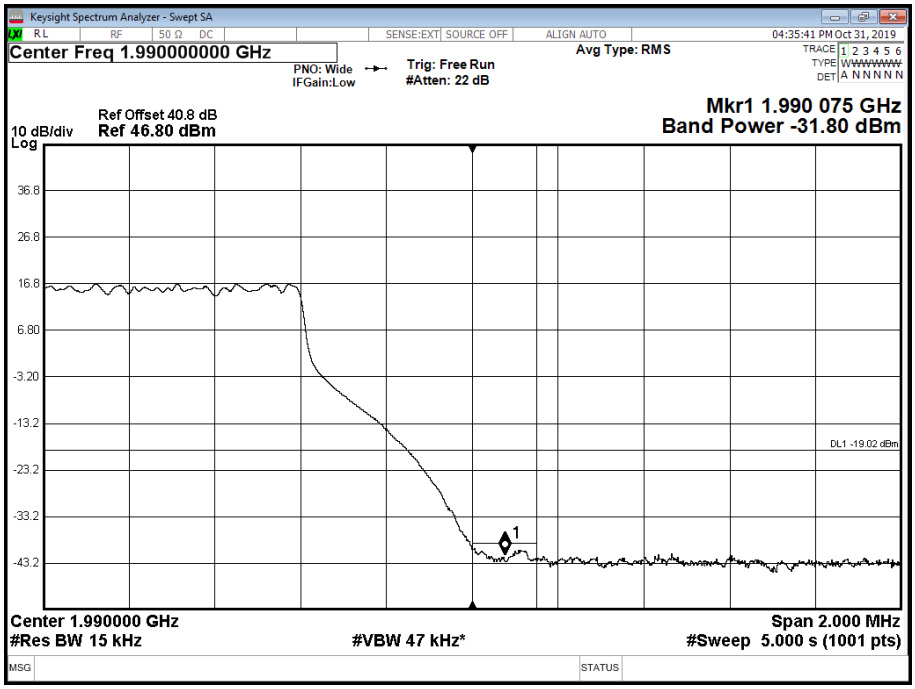
Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 10.0 MHz 15 kHz SCS - Channel Position T



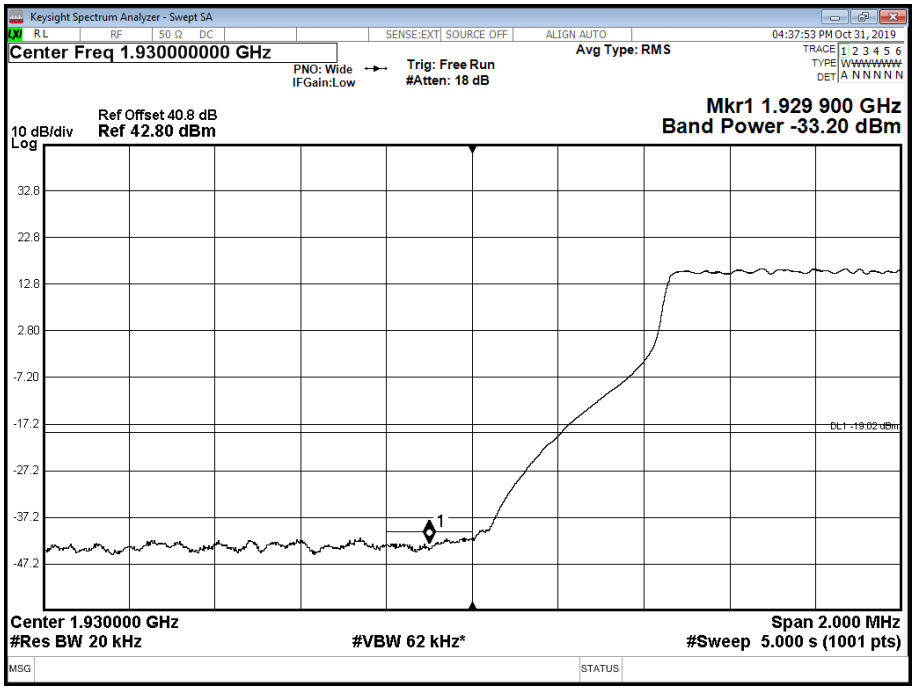
Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 15.0 MHz 15 kHz SCS - Channel Position B



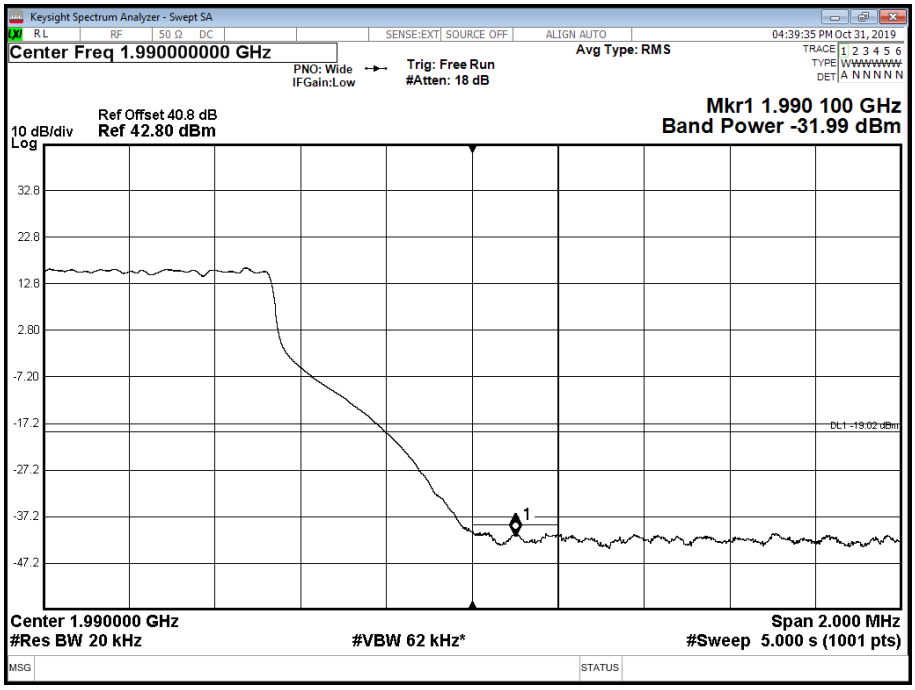
Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 15.0 MHz 15 kHz SCS - Channel Position T



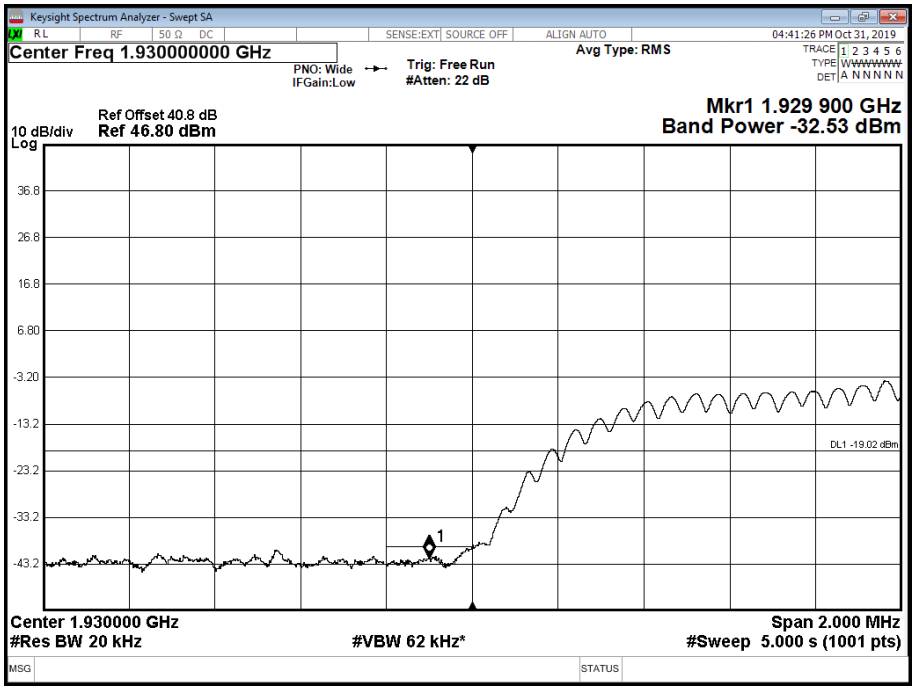
Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 20.0 MHz 15 kHz SCS - Channel Position B



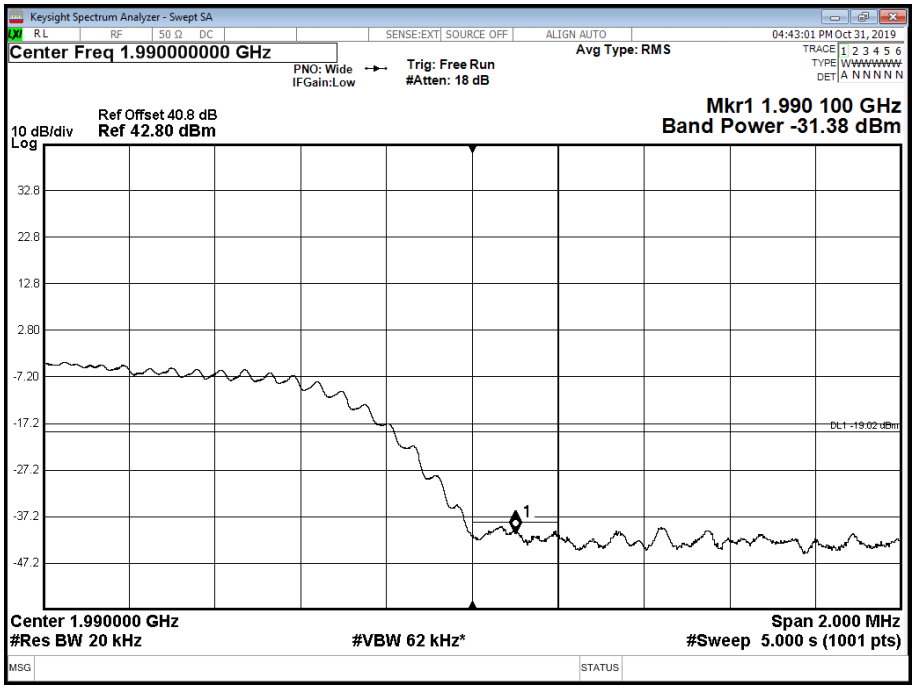
Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 20.0 MHz 15 kHz SCS - Channel Position T



Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 20.0 MHz 60 kHz SCS - Channel Position B



Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 20.0 MHz 60 kHz SCS - Channel Position T

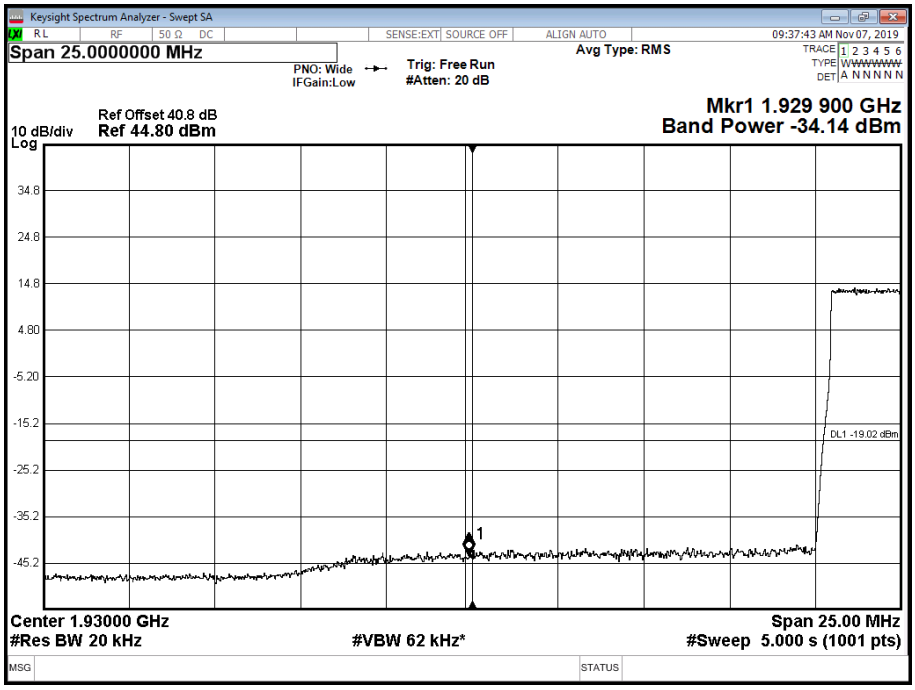


Configuration B

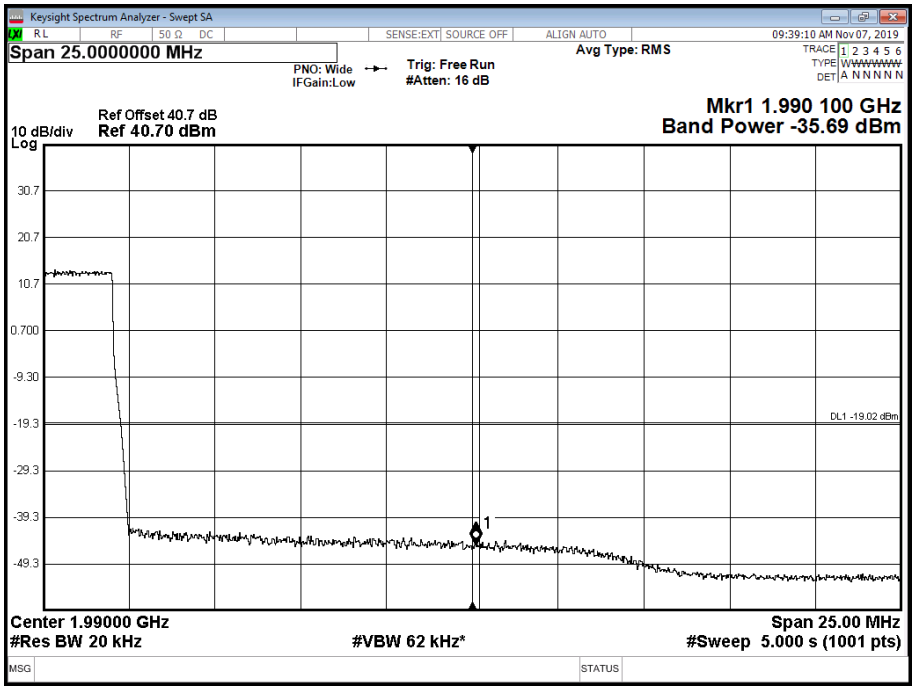
Maximum Output Power 46 dBm

Antenna	NR Modulation	NR Carrier Bandwidth	Band Edge (MHz)	
			Channel Position B	Channel Position T
A	QPSK	20.0 +20.0 MHz 15 kHz SCS	1,950.0	1,970.0

Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 20.0 +20.0 MHz 15 kHz SCS - Channel Position B



Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 20.0 +20.0 MHz 15 kHz SCS - Channel Position T



Limit	-19 dBm

2.4 TRANSMITTER SPURIOUS EMISSIONS

2.4.1 Specification Reference

FCC CFR 47 Part 2, Clause 2.1051
FCC CFR 47 Part 24, Clause 24.238 (a)
Industry Canada RSS-133, Clause 6.5

2.4.2 Date of Test and Modification State

31 October 2019 - Modification State 0

2.4.3 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.4.4 Environmental Conditions

Ambient Temperature	21.9°C
Relative Humidity	45.7%

2.4.5 Test Method

All measurements were made in accordance with FCC KDB 971168 D01.

Each antenna port has been declared as being equivalent, therefore measurements were made on one antenna port only. To account for this, the limit was tightened by 10 * Log(N), where N is equal to the number of MIMO antenna ports.

For four ports, the limit was calculated as being -13 dBm - 10 * Log (4) = -19 dBm.

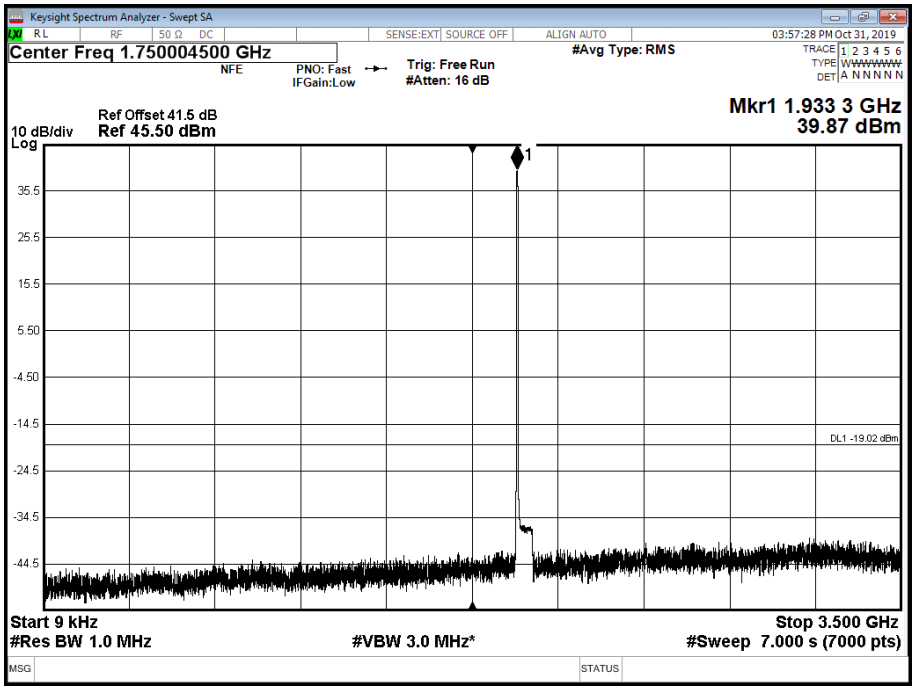
For dual port, the limit was calculated as being -13 dBm - 10 * Log (2) = -16 dBm.

2.4.6 Test Results

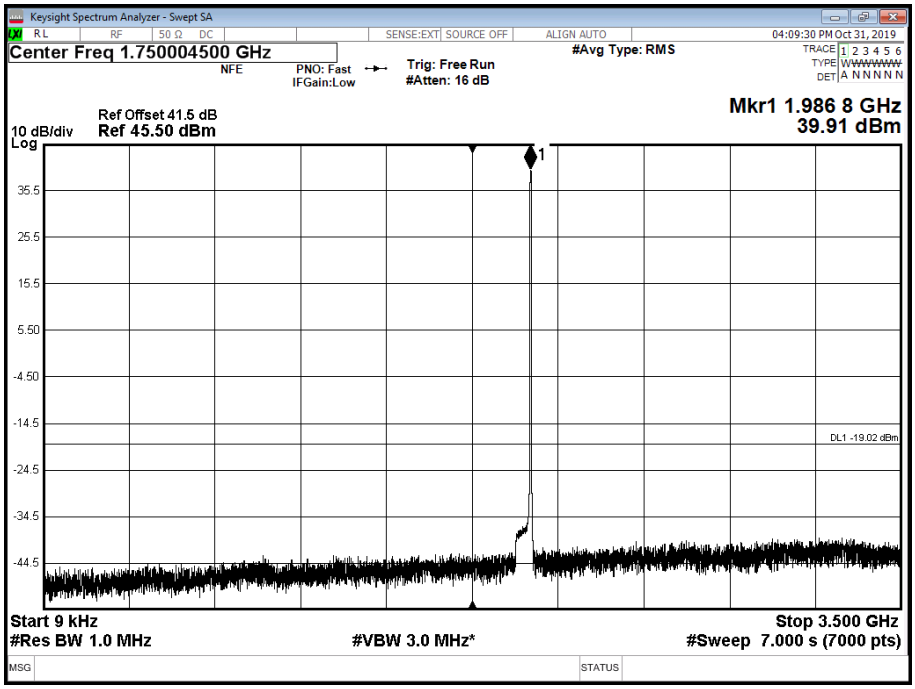
Configuration A

Maximum Output Power 46 dBm

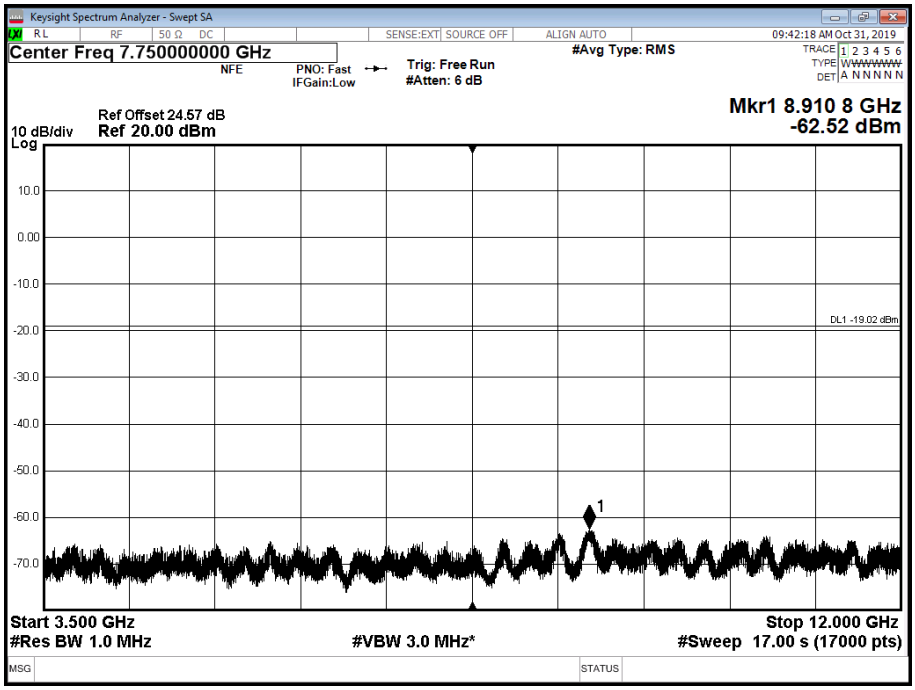
Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 5.0 MHz 15 kHz SCS - Channel Position B - Band 1 - Range 0.009 to 3500 MHz



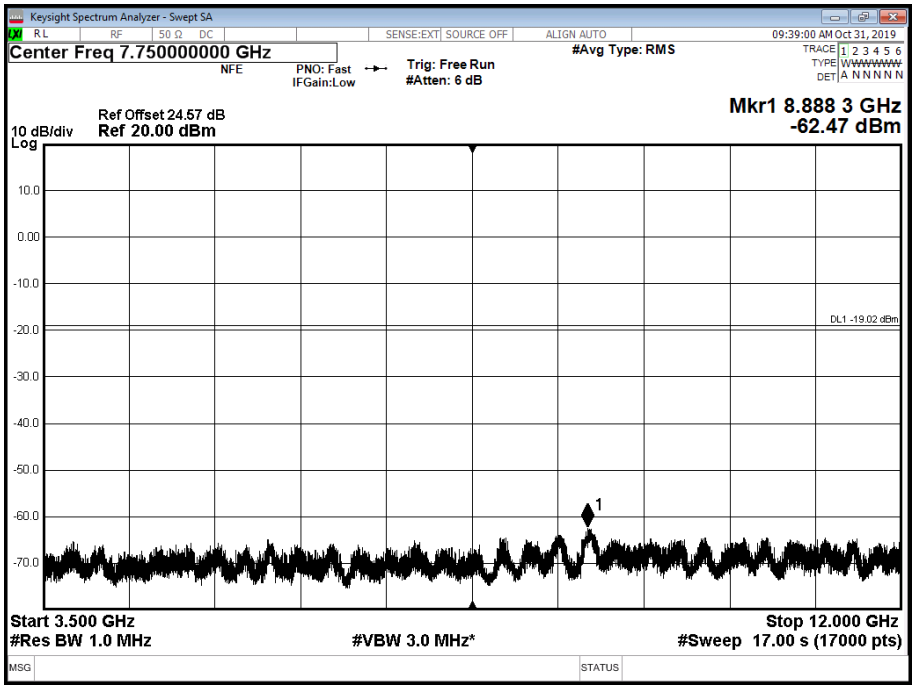
Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 5.0 MHz 15 kHz SCS - Channel Position T - Band 1 - Range 0.009 to 3500 MHz



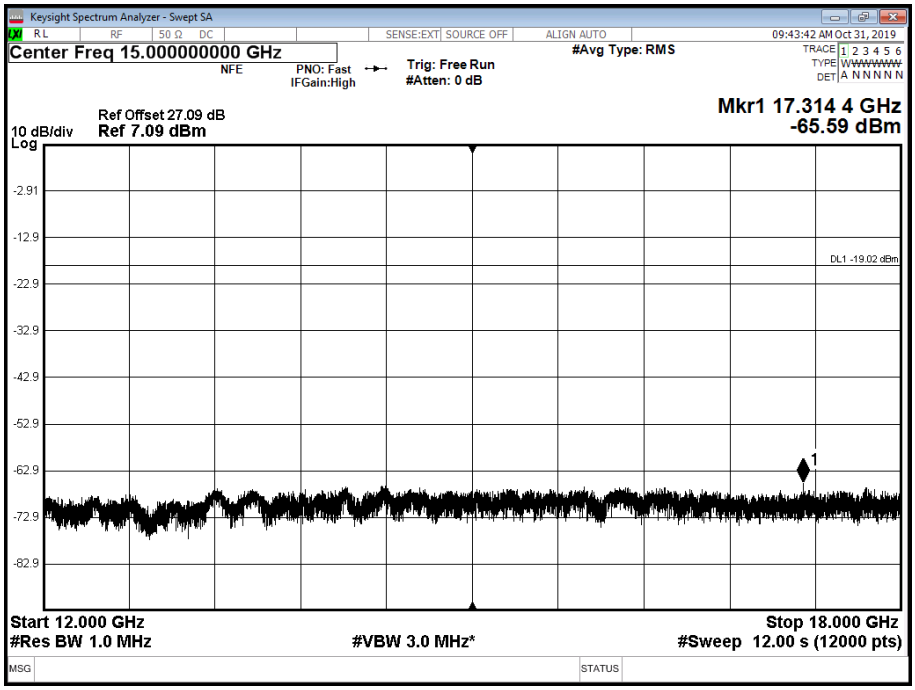
Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 5.0 MHz 15 kHz SCS - Channel Position B - Band 2 - Range 3500 MHz to 12000 MHz



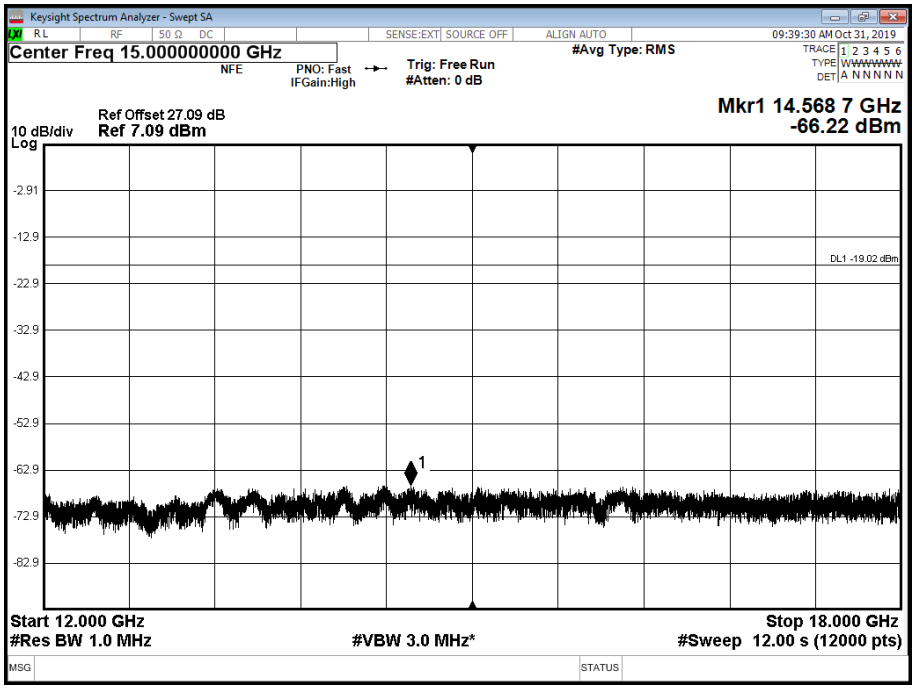
Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 5.0 MHz 15 kHz SCS - Channel Position T - Band 2 - Range 3500 MHz to 12000 MHz



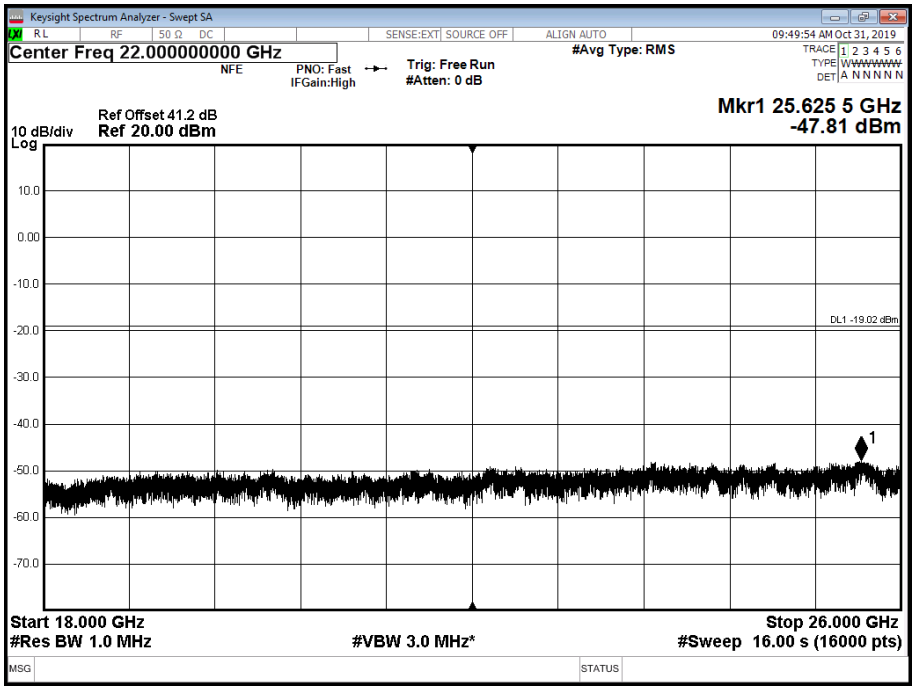
Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 5.0 MHz 15 kHz SCS - Channel Position B - Band 3 - Range 12000 MHz to 18000 MHz



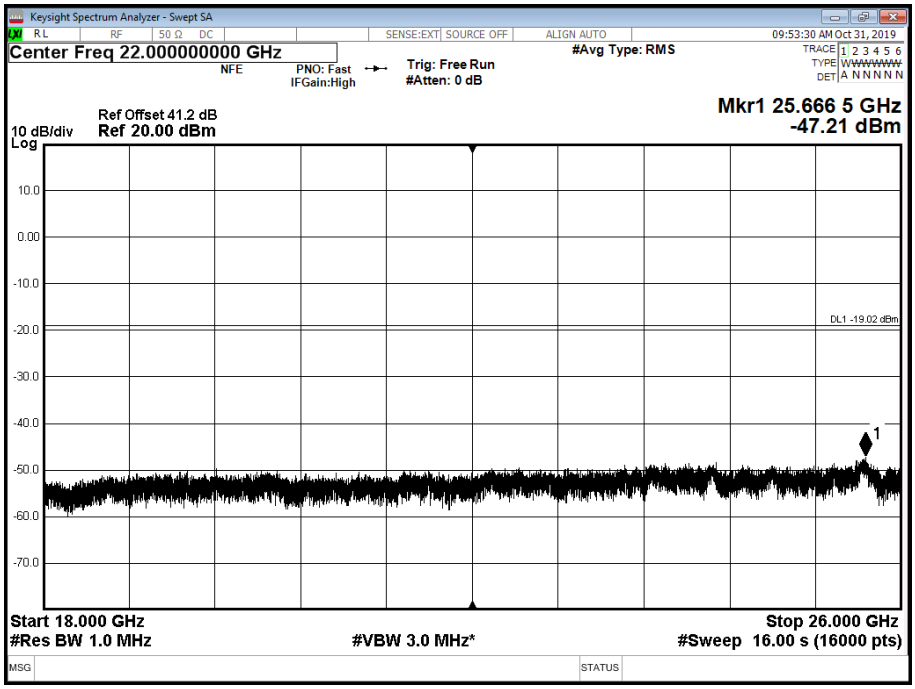
Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 5.0 MHz 15 kHz SCS - Channel Position T - Band 3 - Range 12000 MHz to 18000 MHz



Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 5.0 MHz 15 kHz SCS - Channel Position B - Band 4 - Range 18000 MHz to 26000 MHz



Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 5.0 MHz 15 kHz SCS - Channel Position T - Band 4 - Range 18000 MHz to 26000 MHz



Limit	-19dBm

SECTION 3

TEST EQUIPMENT USED

3.1 TEST EQUIPMENT USED

List of absolute measuring and other principal items of test equipment.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Due
Maximum Peak Output Power and Peak to Average Ratio - Conducted					
Spectrum Analyser	Keysight Technologies	N9030A	4653	12 months	06-Feb-2020
Frequency Standard	Spectracom	SecureSync 1200-0408-0601	4393	6 months	16-Apr-2020
Rubidium Standard	Rohde & Schwarz	XSRM	1316	6 months	16-Apr-2020
Hygromer	Rotronic	Hygropalm	2404	12 months	02-May-2020
Power Supply	Farnell	H60-25	1092	-	O/P Mon
Multimeter	Iso-tech	IDM101	2424	12 months	12-Dec-2019
Attenuator 40 dB 100 W	Weinschel	48-40-43-LIM	5134	-	O/P Mon
N-Type Cable	Rhophase	NPS-1803-1000-NPS	3701	-	O/P Mon
Network Analyser	Keysight Technologies	N5235B	5361	12 months	10-May-2020
ECAL Module	Keysight Technologies	N4693A	5362	12 months	22-Feb-2020
N-Type Cable	Rhophase	D5975	4233	-	O/P Mon
Occupied Bandwidth					
Spectrum Analyser	Keysight Technologies	N9030A	4653	12 months	06-Feb-2020
Frequency Standard	Spectracom	SecureSync 1200-0408-0601	4393	6 months	16-Apr-2020
Rubidium Standard	Rohde & Schwarz	XSRM	1316	6 months	16-Apr-2020
Hygromer	Rotronic	Hygropalm	2404	12 months	02-May-2020
Power Supply	Farnell	H60-25	1092	-	O/P Mon
Multimeter	Iso-tech	IDM101	2424	12 months	12-Dec-2019
Attenuator 40 dB 100 W	Weinschel	48-40-43-LIM	5134	-	O/P Mon
N-Type Cable	Rhophase	NPS-1803-1000-NPS	3701	-	O/P Mon
Network Analyser	Keysight Technologies	N5235B	5361	12 months	10-May-2020
ECAL Module	Keysight Technologies	N4693A	5362	12 months	22-Feb-2020
N-Type Cable	Rhophase	D5975	4233	-	O/P Mon
Band Edge					
Spectrum Analyser	Keysight Technologies	N9030A	4653	12 months	06-Feb-2020
Frequency Standard	Spectracom	SecureSync 1200-0408-0601	4393	6 months	16-Apr-2020
Rubidium Standard	Rohde & Schwarz	XSRM	1316	6 months	16-Apr-2020
Hygromer	Rotronic	Hygropalm	2404	12 months	02-May-2020
Power Supply	Farnell	H60-25	1092	-	O/P Mon
Multimeter	Iso-tech	IDM101	2424	12 months	12-Dec-2019
Attenuator 40 dB 100 W	Weinschel	48-40-43-LIM	5134	-	O/P Mon
N-Type Cable	Rhophase	NPS-1803-1000-NPS	3701	-	O/P Mon
Network Analyser	Keysight Technologies	N5235B	5361	12 months	10-May-2020
ECAL Module	Keysight Technologies	N4693A	5362	12 months	22-Feb-2020
N-Type Cable	Rhophase	D5975	4233	-	O/P Mon
Transmitter Spurious Emissions					
Spectrum Analyser	Keysight Technologies	N9030A	4653	12 months	06-Feb-2020
Frequency Standard	Spectracom	SecureSync 1200-0408-0601	4393	6 months	16-Apr-2020
Rubidium Standard	Rohde & Schwarz	XSRM	1316	6 months	16-Apr-2020

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Due
Hygromer	Rotronic	Hygropalm	2404	12 months	02-May-2020
Power Supply	Farnell	H60-25	1092	-	O/P Mon
Multimeter	Iso-tech	IDM101	2424	12 months	12-Dec-2019
Attenuator 40 dB 100 W	Weinschel	48-40-43-LIM	5134	-	O/P Mon
N-Type Cable	Rhophase	NPS-1803-1000-NPS	3701	-	O/P Mon
N-Type Cable	Rhophase	D5975	4233	-	O/P Mon
Attenuator 20 dB 100 W	Weinschel	48-20-43-LIM	5133	12 months	07-Nov-2019
3 GHz High Pass Filter	Wainwright	WHKX12-2580-3000-18000-80SS	5220	-	O/P Mon
Cable Attenuator	Aralab	CSF6767C-C2S6500	5175	-	O/P Mon
K-Type Cable (40 GHz)	Rosenberger	LU1-001-500	5021	-	O/P Mon
N5235B	Keysight Technologies	N5235B	5361	12 months	10-May-2020
N4693A	Keysight Technologies	N4693A	5362	12 months	22-Feb-2020
18 - 25 GHz Wave Guide	F.M.I. UK	-	-	-	O/P Mon

N/A – Not Applicable
O/P Mon – Output Monitored with Calibrated Equipment

3.2 MEASUREMENT UNCERTAINTY

For a 95% confidence level, the measurement uncertainties for defined systems are:-

Test Discipline	Frequency / Parameter		MU
Conducted Maximum Peak Output Power	30 MHz to 20 GHz Amplitude		± 0.7 dB
Conducted Emissions	30 MHz to 20 GHz Amplitude		± 0.8 dB
Occupied Bandwidth	Up to 20 MHz Bandwidth	5 MHz Bandwidth	± 11547 Hz
		10 MHz Bandwidth	± 23094 Hz
		15 MHz Bandwidth	± 34641 Hz
		20 MHz Bandwidth	± 46188 Hz
Band Edge	30 MHz to 20 GHz Amplitude		±0.8 dB

SECTION 4

ACCREDITATION, DISCLAIMERS AND COPYRIGHT

4.1 ACCREDITATION, DISCLAIMERS AND COPYRIGHT

This report relates only to the actual item/items tested.

Our UKAS Accreditation does not cover opinions and interpretations and any expressed are outside the scope of our UKAS Accreditation.

Results of tests not covered by our UKAS Accreditation Schedule are marked NUA (Not UKAS Accredited).

ANNEX A

MODULE LIST

Configuration A & B			
Product	Product No	R-State	Serial No
RRUS 32 B2	KRC161414/1	R1D	CF84764285
Software Version:	CXP9013268/12	Revision:	R77UB