

Ericsson AB

RF TEST REPORT

Report Type:
FCC Part 96 RF report

PRODUCT NAME:
Radio 4408 B48

REPORT NUMBER:
220100653SHA-001

ISSUE DATE:
January 27, 2022

DOCUMENT CONTROL NUMBER:
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TEST REPORT

Report no.: 220100653SHA-001

Applicant: Ericsson AB
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Manufacturer: Ericsson AB
Isafjordsgatan 10 SE-164 80 Stockholm 16480 Sweden

FCC ID: TA8AKRC161746-1

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:

FCC CFR 47 Part 96: CITIZENS BROADBAND RADIO SERVICE

PREPARED BY:

REVIEWED BY:

Project Engineer
Victor Yang

Reviewer
Jackson Huang

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Revision History

Report No.	Version	Description	Issued Date
190801513SHA-001	Rev. 01	Initial issue of report	August 19, 2019
220100653SHA-001	Rev. 02	NR & mix RAT was added and power was modified	January 27, 2022

Measurement result summary

TEST ITEM	FCC REFERENCE	RESULT
Power, PSD and Peak to Average Power Ratio	96.41(b)(c)(g) 2.1046	Pass
Occupied Bandwidth	96.41(e)(3) 2.1049	Pass
Unwanted Emissions at Band Edge	96.41(e)(1) 2.1051	Pass
Conducted Unwanted Emission	96.41(e)(2) 2.1051	Pass
Radiated Unwanted Emissions	96.41(e)(1)(2) 2.1053	Pass
Frequency Stability	- 2.1055	Pass

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Description:	Remote Radio Unit
Product name:	Radio 4408 B48
Product number:	KRC 161 746/1
Serial Number(s)	CF89790986
Rating:	36V DC
Software Version:	ngr2_app-CXP9013268_15-R89DD.xlf
Hardware Version:	R1D
Sample received date:	December 12, 2021
Date of test:	December 12, 2021 ~ January 7, 2022

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1.2 Technical Specification

Frequency Range:	3550MHz - 3700MHz
Number of Antenna ports:	4 TX/RX
Supported RAT:	TDD LTE, TDD NR
Max RF bandwidth (IBW):	150MHz
Supported Number of Carriers:	Maximum 6 carriers
Supported modulation:	QPSK, 16QAM, 64QAM, 256QAM
Supported Channel Bandwidth:	LTE: 10MHz, 20MHz NR: 20MHz, 30MHz, 40MHz, 50MHz, 60MHz, 70MHz, 80MHz, 90MHz, 100MHz
Output power without integrated antenna:	Maximum 37dBm (5W) per port
Output power with integrated antenna:	Maximum per port: LTE: Single carrier: 24.9dBm for 10MHz BW, 27.9dBm for 20MHz BW. Two carrier: 27.9dBm for 10MHz BW, 30.9dBm for 20MHz BW. Three carrier: 29.7dBm for 10MHz BW, 32.7dBm for 20MHz BW. Four carrier: 30.9dBm for 10MHz BW, 34.0dBm for 20MHz BW. Five carrier: 31.9dBm for 10MHz BW, 34.9dBm for 20MHz BW. Six carrier: 32.7dBm for 10MHz BW, 36.5dBm for 20MHz BW. NR: Single carrier: 28.0dBm for 20MHz BW, 29.9dBm for 30MHz BW, 31.2dBm for 40MHz BW, 32.2dBm for 50MHz BW, 33.0dBm for 60MHz BW, 33.7dBm for 70MHz BW, 34.3dBm for 80MHz BW, 34.8dBm for 90MHz BW, 35.3dBm for 100MHz BW. Two carrier: 31.0dBm for 20MHz BW, 32.9dBm for 30MHz BW, 34.2dBm for 40MHz BW, 35.2dBm for 50MHz BW, 36.5dBm for 60MHz BW, 36.5dBm for 70MHz BW. Three carrier: 32.8dBm for 20MHz BW, 34.6dBm for 30MHz BW, 36.5dBm for 40MHz BW, 36.5dBm for 50MHz BW. Four carrier: 34.0dBm for 20MHz BW, 36.5dBm for 30MHz BW. Five carrier: 35.0dBm for 20MHz BW, 36.5dBm for 30MHz BW. Six carrier: 36.5dBm for 20MHz BW.
Antenna Gain:	12.5dBi

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1.3 Description of Test Facility

Conducted testing:

Name:	Intertek Testing Services Shanghai
Address 1:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Address 2:	F9&F8&F7, Tianfu Software Park E7 Tower, No. 1366 Tianfu Avenue Middle, High-tech Zone, Chengdu City, Sichuan Province, P.R. of China
Telephone:	+86 21 61278200
Telefax:	+86 21 54262353
The test facility is recognized, certified, or accredited by these organizations:	FCC Accredited Lab Designation Number: CN1175, CN1258
	IC Registration Lab CAB identifier.: CN0051
	A2LA Accreditation Lab Certificate Number: 3309.02, 3309.04

Radiated testing:

Name:	CHONGQING ACADEMY OF INFORMATION AND COMMUNICATIONS TECHNOLOGY
Address:	No.19 East Road, Xiantao Big-data Valley, Yubei District, Chongqing, People's Republic of China
Telephone:	+86 23 88068315
The test facility is recognized, certified, or accredited by these organizations:	FCC Accredited Lab Designation Number: CN1239
	IC Registration Lab CAB identifier.: 11590A
	A2LA Accreditation Lab Certificate Number: 4897.01

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2 TEST SPECIFICATIONS

2.1 Related documents

FCC Part 96 (2018)

FCC Part 2 (2018)

ANSI C63.26:2015

KDB 971168 D01 v03r01

KDB 662911 D01 v02r01

KDB 940660 D01 v02

2.2 Product Information

The Equipment Under Test (EUT) Radio 4408 B48 is an Ericsson Radio Unit working in the public mobile services 3550-3700MHz band which provides communication connections to 3550-3700MHz network. The Radio 4408 B48 operates from a -48V DC or a 120V AC power supply.

EUT has two configurations: Configuration A and Configuration B. Configuration A is the Radio Unit with integrated antenna, Configuration B is the Radio Unit without integrated antenna.

The EUT includes 4 TX/RX ports. It can be configured to transmit in MIMO mode, and the MIMO mode was used for measurements as the worst configuration. The complete testing was performed with the EUT transmitting at maximum RF power unless otherwise stated.

A full technical description can be found in the Manufacturer's documentation.

2.3 Configuration Description

Initial pre-testing was carried out to determine the worst case modulation scheme by measuring the output power from QPSK, 16QAM, 64QAM and 256QAM on the middle channel of one antenna port. From these tests, it was determined that 16QAM was the worst case modulation scheme and was used for all testing.

Complete testing was carried out on the worst case antenna port which was determined by the highest output power from the 4 measured ports on worst case modulation scheme and worst bandwidth. The worst antenna port was antenna A.

The settings below were used for all measurements unless otherwise noted:

Configuration	Carrier	Carrier Bandwidth	Carrier Frequency Configuration (MHz)		
			Bottom	Middle	Top
NR-MIMO-1C-20	1C	20MHz	3560.01	3625.02	3690.00
NR-MIMO-1C-30	1C	30MHz	3565.02	3625.02	3685.02
NR-MIMO-1C-40	1C	40MHz	3570.00	3625.02	3680.01
NR-MIMO-1C-50	1C	50MHz	3575.01	3625.02	3675.00
NR-MIMO-1C-60	1C	60MHz	3580.02	3625.02	3670.02
NR-MIMO-1C-70	1C	70MHz	3585.00	3625.02	3665.01
NR-MIMO-1C-80	1C	80MHz	3590.01	3625.02	3660.00
NR-MIMO-1C-90	1C	90MHz	3595.02	3625.02	3655.02
NR-MIMO-1C-100	1C	100MHz	3600.00	3625.02	3650.01
NR-MIMO-2C-20	2C	20MHz	-	3615.00+3635.01	-
NR-MIMO-2C-30	2C	30MHz	-	3610.02+3640.02	-
NR-MIMO-2C-40	2C	40MHz	-	3605.01+3645.00	-
NR-MIMO-2C-50	2C	50MHz	-	3600.00+3650.01	-
NR-MIMO-2C-60	2C	60MHz	-	3595.02+3655.02	-
NR-MIMO-2C-70	2C	70MHz	-	3590.01+3660.00	-
NR-MIMO-6C-20	6C	20MHz	-	3575.01+3595.02+3615.00+3635.01+3655.02+3675.00	-

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Configuration	Carrier	NR Carrier Bandwidth	Carrier Frequency Configuration (MHz)			LTE Carrier Bandwidth
			Bottom	Middle	Top	
NR+LTE-MIMO-MC-1	1NR+1LTE	20MHz	-	(NR)3560.01+(L)3695	-	10MHz
		100MHz	-	(NR)3600.00+(L)3690	-	20MHz
NR+LTE-MIMO-MC-2	1NR+2LTE	20MHz	-	(NR)3560.01+(L)3685+3695	-	10MHz
		100MHz	-	(NR)3600.00+(L)3670+3690	-	20MHz
NR+LTE-MIMO-MC-3	3NR+3LTE	20MHz	-	(NR)3560.01+3580.02+3600.00+(L)3675+3685+3695	-	10MHz
		20MHz	-	(NR)3560.01+3580.02+3600.00+(L)3650+3670+3690	-	20MHz
NR+LTE-MIMO-MC-4	4NR+2LTE	20MHz	-	(NR)3560.01+3580.02+3600.00+3620.01+(L)3685+3695		10MHz
		20MHz	-	(NR)3560.01+3580.02+3600.00+3620.01+(L)3670+3690	-	20MHz

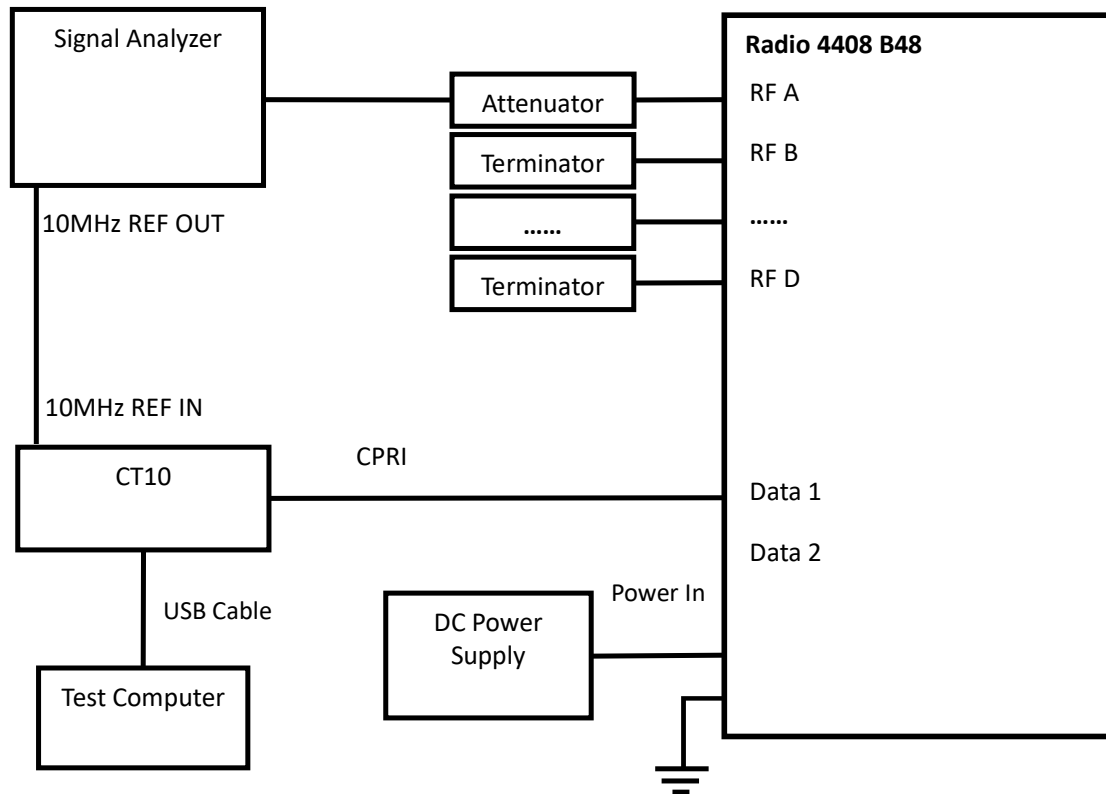
Configuration	Carrier	Carrier Bandwidth	Carrier Frequency Configuration (MHz)		
			Bottom	Middle	Top
NR-MIMO-1C-20-UE	1C	20MHz	3560.01	-	3690.00
NR-MIMO-1C-30-UE	1C	30MHz	3565.02	-	3685.02
NR-MIMO-1C-40-UE	1C	40MHz	3570.00	-	3680.01
NR-MIMO-1C-50-UE	1C	50MHz	3575.01	-	3675.00
NR-MIMO-1C-60-UE	1C	60MHz	3580.02	-	3670.02
NR-MIMO-1C-70-UE	1C	70MHz	3585.00	-	3665.01
NR-MIMO-1C-80-UE	1C	80MHz	3590.01	-	3660.00
NR-MIMO-1C-90-UE	1C	90MHz	3595.02	-	3655.02
NR-MIMO-1C-100-UE	1C	100MHz	3600.00	-	3650.01
NR-MIMO-2C-20-UE	2C	20MHz	3560.01+3580.02	-	3670.02+3690.00
NR-MIMO-2C-30-UE	2C	30MHz	3565.02+3595.02	-	3655.02+3685.02
NR-MIMO-2C-40-UE	2C	40MHz	3570.00+3610.02	-	3640.02+3680.01
NR-MIMO-2C-50-UE	2C	50MHz	3575.01+3625.02	-	3625.02+3675.00
NR-MIMO-2C-60-UE	2C	60MHz	3580.02+3640.02	-	3610.02+3670.02
NR-MIMO-2C-70-UE	2C	70MHz	3585.00+3655.02	-	3595.02+3665.01
NR-MIMO-6C-20-UE	6C	20MHz	3560.01+3580.02+3600.00+3620.01+3640.02+3660.00	-	3590.01+3610.02+3630.00+3650.01+3670.02+3690.00

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Configuration	Carrier	NR Carrier Bandwidth	Carrier Frequency Configuration (MHz)			LTE Carrier Bandwidth
			Bottom	Middle	Top	
NR+LTE-MIMO-MC-1-UE	1NR+1LTE	20MHz	(NR)3560.01+(L)3575	-	(NR)3680.01+(L)3695	10MHz
		100MHz	(NR)3600.00+(L)3660	-	(NR)3630.00+(L)3690	20MHz
NR+LTE-MIMO-MC-2-UE	1NR+2LTE	20MHz	(NR)3560.01+(L)3575+3585	-	(NR)3670.02+(L)3685+3695	10MHz
		100MHz	(NR)3600.00+(L)3660+3680	-	(NR)3610.02+(L)3670+3690	20MHz
NR+LTE-MIMO-MC-3-UE	3NR+3LTE	20MHz	(NR)3560.01+3580.02+3600.00+(L)3615+3625+3635	-	(NR)3620.01+3640.02+3660.00+(L)3675+3685+3695	10MHz
		20MHz	(NR)3560.01+3580.02+3600.00+(L)3620+3640+3660	-	(NR)3590.01+3610.02+3630.00+(L)3650+3670+3690	20MHz
NR+LTE-MIMO-MC-4-UE	4NR+2LTE	20MHz	(NR)3560.01+3580.02+3600.00+3620.01+(L)3635+3645	-	(NR)3610.02+3630.00+3650.01+3670.02+(L)3685+3695	10MHz
		20MHz	(NR)3560.01+3580.02+3600.00+3620.01+(L)3640+3660	-	(NR)3590.01+3610.02+3630.00+3650.01+(L)3670+3690	20MHz

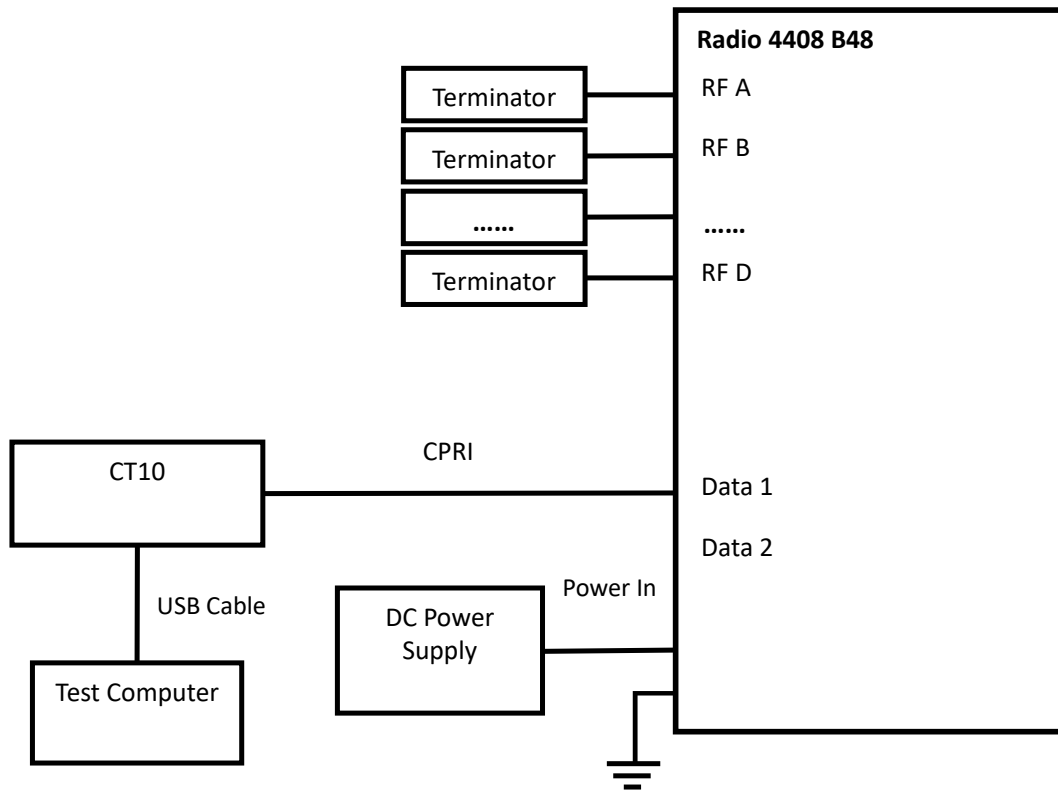
2.4 Test Setup

Conducted Measurement:



No.	Auxiliary Equipment	Product Number / Model Type	Version
1	Test computer	DELL DESKTOP-M3JEA0E	-
2	CT10	LPC 102 487/1	-
3	Power supply	N8737A	-
4	Terminator	WTF100-6G-A-NJ	-
5	Attenuator	Rosberg 20dB@3G	-
6	Network Analyzer	N5230A	-

Radiated Measurement:



No.	Auxiliary Equipment	Product Number / Model Type	Version
1	Test computer	DELL DESKTOP-M3JEA0E	-
2	CT10	LPC 102 487/1	-
3	Terminator	TFZ50-6NM1	-

2.5 Test environment condition:

Test items	Temperature	Humidity
Power, PSD and Peak to Average Power Ratio	22°C	56% RH
Occupied Bandwidth		
Unwanted Emissions at Band Edge		
Conducted Unwanted Emission		
Radiated Unwanted Emissions	22°C	56% RH
Frequency Stability	Please refer to clause 8	

2.6 Instrument list

Intertek Testing Services Shanghai					
Used	Equipment	Manufacturer	Type	S/N	Due date
☒	Signal Analyzer	Rohde & Schwarz	FSVA3044	101087	2022-06-30
☒	Signal Analyzer	Rohde & Schwarz	N9030B	MY57140894	2022-06-30
☒	Signal Generator	Rohde & Schwarz	SMW200A	105850	2022-12-09
☒	Signal Generator	Rohde & Schwarz	SMU200A	103212	2022-06-30
☒	Climatic Chamber	Chongqing Yinhe	SDJ61F	201700266	2022-06-30
☒	TRUE RMS CLAMP METER	FLUKE	317	40500136WS	2022-07-25
☒	Hygrometer	TESTO	608-H1	1745127471	2022-11-21
☒	Hygrometer	TESTO	608-H1	1745127476	2022-11-21

CHONGQING ACADEMY OF INFORMATION AND COMMUNICATIONS TECHNOLOGY					
Used	Equipment	Manufacturer	Type	S/N	Due date
☒	Test Receiver	R&S	ESW 26	101382	2022-06-25
☒	Ultra-wideband Log Periodic Antenna	SCHWARZBEC K	VULB 9163	9163-586	2022-11-11
☒	Amplifier	R&S	SCU-08-32	08320004	--
☒	anechoic chamber	TDK	--	--	2022-04-01
☒	Test Receiver	R&S	ESU40	100350	2022-06-25
☒	Double Ridged Guide Antenna	Schwarzbeck	BBHA9120D	1083	2022-06-25
☒	Double Ridged Guide Antenna	ETS	DATE 1152	LM7127	2022-08-16
☒	Double Ridged Guide Antenna	ETS	DATE 1012	LM5945	2022-08-16
☒	Full-anechoic chamber	TDK	--	--	2022-11-01

2.7 Measurement uncertainty

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

Test item	Measurement uncertainty
Maximum output power	0.73dB
Occupied Bandwidth	0.88%
Unwanted Emissions at Band Edge	3.03dB
Conducted Unwanted Emission	3.03dB
Radiated Unwanted Emissions below 1GHz	3.51dB
Radiated Unwanted Emissions 1-18GHz	4.84dB
Radiated Unwanted Emissions 18-40GHz	6.19dB
Frequency stability	0.77×10^{-7}

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3 Power, PSD and Peak to Average Power Ratio

Test result: Pass

3.1 Limit

Power limits:

Maximum effective isotropic radiated power (EIRP): 47dBm/10MHz

Maximum Power Spectral Density (PSD): 37dBm/MHz

Peak to Average Ratio: ≤ 13 dB

3.2 Measurement Procedure

The EUT was configured to transmit on maximum power and proper modulation. Measurements were performed with a Spectrum Analyzer using the Band Power measurement function. The detector was set to RMS with an RBW of at least 1% of the carrier bandwidth and a VBW of at least 3 times the RBW. The integration bandwidth was configured to be 10MHz as defined in 96.41(b). Where the carrier width was greater than 10MHz, the integration bandwidth was moved to the region with the highest PSD to find the maximum band power.

For PSD measurements in a 1MHz bandwidth, an RMS detector was used with a single sweep. The highest PSD was established over the entire emission bandwidth and the result recorded.

The measured results were summed in accordance with FCC KDB 662911 to account for 4 ports MIMO operation.

CCDF measurements were carried out in accordance with ANSI C63.26 Clause 5.2.3.4.

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3.3 Measurement result

Configuration B:

NR-MIMO-1C-20:

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position B			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	20	36.76	26.13	36.13	7.34
B	16QAM	20	36.91	26.52	36.52	7.41
C	16QAM	20	36.93	26.41	36.41	7.37
D	16QAM	20	36.96	26.36	36.36	7.32
Total A-D			42.91	32.38	42.38	-

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position M			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	20	36.91	26.35	36.35	7.58
B	16QAM	20	36.81	26.40	36.40	7.58
C	16QAM	20	36.71	26.23	36.23	7.55
D	16QAM	20	36.96	26.35	36.35	7.56
Total A-D			42.87	32.35	42.35	-

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position T			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	20	36.86	26.40	36.40	7.33
B	16QAM	20	36.75	26.44	36.44	7.33
C	16QAM	20	36.75	26.34	36.34	7.40
D	16QAM	20	36.88	26.26	36.26	7.36
Total A-D			42.83	32.38	42.38	-

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NR-MIMO-1C-30:

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position B			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	30	36.67	25.19	35.19	7.07
B	16QAM	30	36.50	24.54	34.54	7.19
C	16QAM	30	36.50	24.64	34.64	7.17
D	16QAM	30	36.58	24.52	34.52	7.08
Total A-D			42.58	30.75	40.75	-

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position M			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	30	36.87	24.73	34.73	7.07
B	16QAM	30	36.75	24.84	34.84	7.23
C	16QAM	30	36.72	24.65	34.65	7.22
D	16QAM	30	36.85	24.71	34.71	7.19
Total A-D			42.82	30.75	40.75	-

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position T			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	30	36.83	24.89	34.89	7.11
B	16QAM	30	36.68	24.75	34.75	7.12
C	16QAM	30	36.63	24.76	34.76	7.18
D	16QAM	30	36.79	24.71	34.71	7.14
Total A-D			42.75	30.80	40.80	-

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NR-MIMO-1C-40:

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position B			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	40	36.69	23.32	33.32	7.15
B	16QAM	40	36.63	23.82	33.82	7.26
C	16QAM	40	36.46	23.21	33.21	7.22
D	16QAM	40	36.73	23.31	33.31	7.11
Total A-D			42.65	29.44	39.44	-

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position M			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	40	36.85	23.45	33.45	7.22
B	16QAM	40	36.85	23.65	33.65	7.26
C	16QAM	40	36.70	23.31	33.31	7.22
D	16QAM	40	36.91	23.54	33.54	7.19
Total A-D			42.85	29.51	39.51	-

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position T			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	40	36.75	23.47	33.47	7.17
B	16QAM	40	36.76	23.62	33.62	7.21
C	16QAM	40	36.61	23.37	33.37	7.25
D	16QAM	40	36.83	23.49	33.49	7.21
Total A-D			42.76	29.51	39.51	-

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NR-MIMO-1C-50:

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position B			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	50	36.99	22.55	32.55	7.21
B	16QAM	50	36.99	22.53	32.53	7.33
C	16QAM	50	36.99	22.52	32.52	7.27
D	16QAM	50	36.98	22.51	32.51	7.21
Total A-D			43.01	28.55	29.55	-

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position M			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	50	36.81	22.21	32.21	7.22
B	16QAM	50	36.81	22.26	32.26	7.27
C	16QAM	50	36.75	22.18	32.18	7.25
D	16QAM	50	36.41	21.22	31.22	7.21
Total A-D			42.72	28.01	38.01	-

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position T			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	50	37.71	22.23	32.23	7.25
B	16QAM	50	36.71	22.25	32.25	7.28
C	16QAM	50	36.64	22.12	32.12	7.31
D	16QAM	50	36.34	21.24	31.24	7.28
Total A-D			42.90	28.00	29.00	-

TEST REPORT

NR-MIMO-1C-60:

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position B			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	60	36.65	21.31	31.31	7.28
B	16QAM	60	36.67	21.31	31.31	7.38
C	16QAM	60	36.66	21.27	31.27	7.32
D	16QAM	60	36.56	21.28	31.28	7.26
Total A-D			42.66	27.31	37.31	-

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position M			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	60	36.97	21.61	31.61	7.20
B	16QAM	60	36.99	21.71	31.71	7.25
C	16QAM	60	36.97	21.62	31.62	7.24
D	16QAM	60	36.87	21.55	31.55	7.19
Total A-D			42.97	27.64	37.64	-

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position T			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	60	36.89	21.59	31.59	7.27
B	16QAM	60	36.87	21.61	31.61	7.34
C	16QAM	60	36.86	21.54	31.54	7.34
D	16QAM	60	36.81	21.45	31.45	7.31
Total A-D			42.88	27.57	37.57	-

TEST REPORT

NR-MIMO-1C-70:

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position B			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	70	36.54	20.64	30.64	7.42
B	16QAM	70	36.57	20.66	30.66	7.47
C	16QAM	70	36.52	20.59	30.59	7.43
D	16QAM	70	36.47	20.53	30.53	7.44
Total A-D			42.55	26.63	36.63	-

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position M			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	70	36.91	21.02	31.02	7.25
B	16QAM	70	36.95	21.12	31.12	7.32
C	16QAM	70	36.90	21.03	31.03	7.29
D	16QAM	70	36.86	21.02	31.02	7.25
Total A-D			42.93	27.07	37.07	-

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position T			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	70	36.81	20.97	30.97	7.42
B	16QAM	70	36.85	21.02	31.02	7.44
C	16QAM	70	36.77	20.95	30.95	7.43
D	16QAM	70	36.74	21.00	31.00	7.42
Total A-D			42.81	27.01	37.01	-

TEST REPORT

NR-MIMO-1C-80:

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position B			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	80	36.55	20.18	30.18	7.38
B	16QAM	80	36.61	20.01	30.01	7.39
C	16QAM	80	36.49	20.09	30.09	7.42
D	16QAM	80	36.56	20.21	30.21	7.37
Total A-D			42.57	26.14	36.14	-

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position M			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	80	36.94	20.45	30.45	7.21
B	16QAM	80	37.02	20.54	30.54	7.24
C	16QAM	80	36.91	20.48	30.48	7.26
D	16QAM	80	36.93	20.46	30.46	7.29
Total A-D			42.97	26.50	36.50	-

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position T			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	80	36.83	20.42	30.42	7.36
B	16QAM	80	36.89	20.33	30.33	7.34
C	16QAM	80	36.75	20.37	30.37	7.43
D	16QAM	80	36.84	20.40	30.40	7.39
Total A-D			42.85	26.40	36.40	-

TEST REPORT

NR-MIMO-1C-90:

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position B			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	90	35.53	19.46	29.46	7.46
B	16QAM	90	36.58	19.57	29.57	7.50
C	16QAM	90	36.55	19.55	29.55	7.48
D	16QAM	90	36.53	19.62	29.62	7.47
Total A-D			42.34	25.57	35.57	-

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position M			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	90	37.00	19.98	29.98	7.20
B	16QAM	90	37.00	20.13	30.13	7.28
C	16QAM	90	36.97	20.05	30.05	7.25
D	16QAM	90	36.94	20.14	30.14	7.22
Total A-D			43.00	26.10	36.10	-

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position T			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	90	36.86	19.91	29.91	7.39
B	16QAM	90	36.91	19.96	29.96	7.42
C	16QAM	90	36.81	19.84	29.84	7.45
D	16QAM	90	36.85	19.98	29.98	7.41
Total A-D			42.88	25.94	35.94	-

TEST REPORT

NR-MIMO-1C-100:

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position B			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	100	36.57	19.06	29.06	7.43
B	16QAM	100	36.66	19.17	29.17	7.49
C	16QAM	100	36.57	19.09	29.09	7.46
D	16QAM	100	36.61	19.05	29.05	7.44
Total A-D			42.62	25.11	35.11	-

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position M			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	100	37.03	19.51	29.51	7.18
B	16QAM	100	37.07	19.62	29.62	7.23
C	16QAM	100	37.04	19.56	29.56	7.21
D	16QAM	100	36.05	19.58	29.58	7.19
Total A-D			42.84	25.59	35.59	-

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position T			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	100	36.97	19.58	29.58	7.18
B	16QAM	100	37.01	19.73	29.73	7.40
C	16QAM	100	36.94	19.62	29.62	7.40
D	16QAM	100	36.98	19.58	29.58	7.37
Total A-D			43.00	25.65	35.65	-

TEST REPORT

NR-MIMO-2C-20:

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position M			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	20	36.94	23.46	33.46	-
B	16QAM	20	36.89	23.40	33.40	-
C	16QAM	20	36.85	23.49	33.49	-
D	16QAM	20	36.86	23.54	33.54	-
Total A-D			42.91	29.49	39.49	-

NR-MIMO-2C-30:

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position M			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	30	36.95	21.79	31.79	-
B	16QAM	30	36.87	21.96	31.96	-
C	16QAM	30	36.84	22.16	32.16	-
D	16QAM	30	36.99	21.97	31.97	-
Total A-D			42.93	27.99	37.99	-

NR-MIMO-2C-40:

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position M			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	40	36.99	20.72	30.72	-
B	16QAM	40	36.87	20.62	30.62	-
C	16QAM	40	36.87	20.87	30.87	-
D	16QAM	40	36.88	20.65	30.65	-
Total A-D			42.92	26.74	36.74	-

TEST REPORT

NR-MIMO-2C-50:

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position M			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	50	36.57	19.18	29.18	-
B	16QAM	50	36.66	19.17	29.17	-
C	16QAM	50	36.66	19.21	29.21	-
D	16QAM	50	36.71	19.17	29.17	-
Total A-D			42.67	25.20	35.20	-

NR-MIMO-2C-60:

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position M			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	60	36.74	18.46	28.46	-
B	16QAM	60	36.82	18.57	28.57	-
C	16QAM	60	36.88	18.59	28.59	-
D	16QAM	60	36.89	18.63	28.63	-
Total A-D			42.85	24.58	34.58	-

NR-MIMO-2C-70:

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position M			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	70	36.49	17.81	27.81	-
B	16QAM	70	36.54	17.83	27.83	-
C	16QAM	70	36.56	17.88	27.88	-
D	16QAM	70	36.63	17.95	27.95	-
Total A-D			42.58	23.89	33.89	-

TEST REPORT

NR-MIMO-6C-20:

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position M			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	20	37.00	18.68	28.68	-
B	16QAM	20	36.99	18.75	28.75	-
C	16QAM	20	36.97	18.72	28.72	-
D	16QAM	20	36.96	18.76	28.76	-
Total A-D			43.00	24.75	34.75	-

NR+LTE-MIMO-MC-1:

Antenna	Modulation	NR Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
				Channel position M			
				Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	20	10	36.24	25.83	35.83	-
B	16QAM	20	10	36.91	25.73	35.73	-
C	16QAM	20	10	36.91	25.79	35.79	-
D	16QAM	20	10	36.89	25.69	35.69	-
Total A-D				42.77	31.78	41.78	-

Antenna	Modulation	NR Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
				Channel position M			
				Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	100	20	36.92	22.67	32.67	-
B	16QAM	100	20	37.10	22.90	32.90	-
C	16QAM	100	20	37.08	22.89	32.89	-
D	16QAM	100	20	37.11	22.66	32.66	-
Total A-D				43.07	28.80	38.80	-

TEST REPORT

NR+LTE-MIMO-MC-2:

Antenna	Modulation	NR Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
				Channel position M			
				Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	20	10	36.64	24.31	34.31	-
B	16QAM	20	10	36.69	24.20	34.20	-
C	16QAM	20	10	36.67	24.17	34.17	-
D	16QAM	20	10	36.71	24.25	34.25	-
Total A-D				42.70	30.25	40.25	-

Antenna	Modulation	NR Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
				Channel position M			
				Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	100	20	36.97	21.22	31.22	-
B	16QAM	100	20	36.96	21.26	31.26	-
C	16QAM	100	20	36.88	21.18	31.18	-
D	16QAM	100	20	36.91	21.11	31.11	-
Total A-D				42.95	27.21	37.21	-

NR+LTE-MIMO-MC-3:

Antenna	Modulation	NR Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
				Channel position M			
				Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	20	10	36.70	21.14	31.14	-
B	16QAM	20	10	36.68	21.16	31.16	-
C	16QAM	20	10	36.73	21.20	31.20	-
D	16QAM	20	10	36.78	21.28	31.28	-
Total A-D				42.74	27.22	37.22	-

Antenna	Modulation	NR Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
				Channel position M			
				Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	20	20	36.99	18.69	28.69	-
B	16QAM	20	20	37.02	18.61	28.61	-
C	16QAM	20	20	37.02	18.29	28.29	-
D	16QAM	20	20	37.06	18.36	28.36	-
Total A-D				43.04	24.51	34.51	-

TEST REPORT

NR+LTE-MIMO-MC-4:

Antenna	Modulation	NR Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
				Channel position M			
				Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	20	10	36.75	21.24	31.24	-
B	16QAM	20	10	36.75	21.20	31.20	-
C	16QAM	20	10	36.81	21.27	31.27	-
D	16QAM	20	10	36.85	21.35	31.35	-
Total A-D				42.81	27.29	37.29	-

Antenna	Modulation	NR Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
				Channel position M			
				Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	20	20	36.99	18.25	28.25	-
B	16QAM	20	20	36.96	18.28	28.28	-
C	16QAM	20	20	36.99	18.12	28.12	-
D	16QAM	20	20	37.04	18.17	28.17	-
Total A-D				43.02	24.23	34.23	-

TEST REPORT

EIRP Compliance

The maximum allowable antenna gain + cable loss cannot exceed the values in the table below when the radio operating at the maximum output power in order to be compliant with the EIRP requirements in Part 96.41.

RF exposure compliance for the external antenna shall be addressed at the time of licensing, as required by the responsible FCC Bureau(s), including antenna co-location requirements of Part 1.1307(b)(3).

	Maximum Total output power dBm/MHz	Maximum Antenna gain + cable loss dBi	PSD dBm/MHz	EIRP dBm/10MHz
NR-MIMO-1C-20	32.38	4.62	37	47
NR-MIMO-1C-30	30.80	6.20	37	47
NR-MIMO-1C-40	29.51	7.49	37	47
NR-MIMO-1C-50	28.55	8.45	37	47
NR-MIMO-1C-60	27.64	9.36	37	47
NR-MIMO-1C-70	27.01	9.99	37	47
NR-MIMO-1C-80	26.50	10.50	37	47
NR-MIMO-1C-90	26.10	10.90	37	47
NR-MIMO-1C-100	25.65	11.35	37	47
NR-MIMO-2C-20	29.49	7.51	37	47
NR-MIMO-2C-30	27.99	9.01	37	47
NR-MIMO-2C-40	26.74	10.26	37	47
NR-MIMO-2C-50	25.20	11.80	37	47
NR-MIMO-2C-60	24.58	12.42	37	47
NR-MIMO-2C-70	23.89	13.11	37	47
NR-MIMO-6C-20	24.75	12.25	37	47

TEST REPORT

Configuration A:

NR-MIMO-1C-20:

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position B			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	20	27.58	16.83	26.83	8.32
B	16QAM	20	27.67	17.02	27.02	8.32
C	16QAM	20	27.83	17.08	27.08	8.33
D	16QAM	20	27.61	17.00	27.00	8.34
Total A-D			33.69	23.00	33.00	-
Antenna gain			12.5			-
EIRP			46.19	35.50	45.50	-

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position M			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	20	27.77	16.92	26.92	8.33
B	16QAM	20	27.76	16.95	26.95	8.39
C	16QAM	20	27.88	17.05	27.05	8.34
D	16QAM	20	27.91	17.25	27.25	8.37
Total A-D			33.85	23.07	33.07	-
Antenna gain			12.5			-
EIRP			46.35	35.57	45.57	-

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position T			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	20	27.71	16.89	26.89	8.34
B	16QAM	20	27.68	16.85	26.85	8.35
C	16QAM	20	27.84	17.04	27.04	8.35
D	16QAM	20	27.81	17.35	27.35	8.35
Total A-D			33.78	23.06	33.06	-
Antenna gain			12.5			-
EIRP			46.28	35.56	45.56	-

TEST REPORT

NR-MIMO-1C-30:

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position B			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	30	29.59	17.49	27.49	8.23
B	16QAM	30	29.60	17.52	27.52	8.24
C	16QAM	30	29.70	17.59	27.59	8.26
D	16QAM	30	29.68	17.62	27.62	8.22
Total A-D			35.66	23.58	33.58	-
Antenna gain			12.5			-
EIRP			48.16	36.08	46.08	-

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position M			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	30	29.76	17.69	27.69	8.24
B	16QAM	30	29.73	17.58	27.58	8.23
C	16QAM	30	29.87	17.75	27.75	8.24
D	16QAM	30	29.94	17.82	27.82	8.25
Total A-D			35.85	23.73	33.73	-
Antenna gain			12.5			-
EIRP			48.35	36.23	46.23	-

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position T			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	30	29.72	17.78	27.78	8.25
B	16QAM	30	29.71	17.78	27.78	8.25
C	16QAM	30	29.82	17.84	27.84	8.25
D	16QAM	30	29.84	17.91	27.91	8.26
Total A-D			35.79	23.85	33.85	-
Antenna gain			12.5			-
EIRP			48.29	36.35	46.35	-

TEST REPORT

NR-MIMO-1C-40:

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position B			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	40	31.00	17.63	27.63	8.22
B	16QAM	40	30.92	17.59	27.59	8.21
C	16QAM	40	31.13	17.78	27.78	8.23
D	16QAM	40	30.97	17.87	27.87	8.16
Total A-D			37.03	23.74	33.74	-
Antenna gain						
EIRP			49.53	36.24	46.24	-

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position M			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	40	31.16	17.88	27.88	8.23
B	16QAM	40	31.16	17.89	27.89	8.20
C	16QAM	40	31.26	17.97	27.97	8.23
D	16QAM	40	31.15	17.97	27.97	8.19
Total A-D			37.20	23.95	33.95	-
Antenna gain			12.5			
EIRP			49.70	36.45	46.45	-

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position T			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	40	31.19	17.91	27.91	8.23
B	16QAM	40	31.18	17.93	27.93	8.22
C	16QAM	40	31.27	17.96	27.96	8.23
D	16QAM	40	31.21	18.05	28.05	8.25
Total A-D			37.23	23.98	33.98	-
Antenna gain			12.5			
EIRP			49.73	36.48	46.48	-

TEST REPORT

NR-MIMO-1C-50:

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position B			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	50	32.03	17.51	27.51	9.83
B	16QAM	50	32.01	17.49	27.49	9.85
C	16QAM	50	32.12	17.57	27.57	9.82
D	16QAM	50	32.05	17.54	27.54	9.83
Total A-D			38.07	23.55	33.55	-
Antenna gain			12.5			-
EIRP			50.57	36.05	46.05	-

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position M			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	50	32.26	17.52	27.52	9.83
B	16QAM	50	32.25	17.54	27.54	9.83
C	16QAM	50	32.36	17.67	27.67	9.85
D	16QAM	50	32.26	17.56	27.56	9.83
Total A-D			38.30	23.59	33.59	-
Antenna gain			12.5			-
EIRP			50.80	36.09	46.09	-

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position T			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	50	32.18	17.57	27.57	9.84
B	16QAM	50	32.17	17.58	27.58	9.84
C	16QAM	50	32.25	17.60	27.60	9.84
D	16QAM	50	32.20	17.63	27.63	9.83
Total A-D			38.22	23.62	33.62	-
Antenna gain			12.5			-
EIRP			50.72	36.12	46.12	-

TEST REPORT

NR-MIMO-1C-60:

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position B			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	60	32.67	17.37	27.37	9.84
B	16QAM	60	32.85	17.45	27.45	9.84
C	16QAM	60	32.94	17.54	27.54	9.83
D	16QAM	60	32.89	17.62	27.62	9.83
Total A-D			38.86	23.52	33.52	-
Antenna gain			12.5			-
EIRP			51.36	36.02	46.02	-

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position M			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	60	33.14	17.73	27.73	9.85
B	16QAM	60	33.00	17.64	27.64	9.86
C	16QAM	60	33.22	17.80	27.80	9.85
D	16QAM	60	33.16	17.88	27.88	9.86
Total A-D			39.15	23.78	33.78	-
Antenna gain			12.5			-
EIRP			51.65	36.28	46.28	-

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position T			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	60	32.87	17.57	27.57	9.83
B	16QAM	60	33.04	17.77	27.77	9.85
C	16QAM	60	33.12	17.89	27.89	9.83
D	16QAM	60	33.06	17.98	27.98	9.85
Total A-D			39.04	23.83	33.83	-
Antenna gain			12.5			-
EIRP			51.54	36.33	46.33	-

TEST REPORT

NR-MIMO-1C-70:

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position B			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	70	33.29	17.37	27.37	9.84
B	16QAM	70	33.21	17.28	27.28	9.83
C	16QAM	70	33.39	17.42	27.42	9.83
D	16QAM	70	33.21	17.31	27.31	9.84
Total A-D			39.30	23.37	33.37	-
Antenna gain			12.5			-
EIRP			51.80	35.87	45.87	-

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position M			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	70	33.63	17.77	27.77	9.86
B	16QAM	70	33.79	18.05	28.05	9.85
C	16QAM	70	33.66	17.86	27.86	9.84
D	16QAM	70	33.59	17.84	27.84	9.68
Total A-D			39.69	23.90	33.90	-
Antenna gain			12.5			-
EIRP			52.19	36.40	46.40	-

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position T			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	70	33.50	17.76	27.76	9.82
B	16QAM	70	33.47	17.68	27.68	9.81
C	16QAM	70	33.53	17.74	27.74	9.81
D	16QAM	70	33.47	17.77	27.77	9.82
Total A-D			39.51	23.76	33.76	-
Antenna gain			12.5			-
EIRP			52.01	36.26	46.26	-

TEST REPORT

NR-MIMO-1C-80:

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position B			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	80	34.00	17.54	27.54	9.86
B	16QAM	80	33.91	17.46	27.46	9.83
C	16QAM	80	34.05	17.56	27.56	9.83
D	16QAM	80	33.95	17.62	27.62	9.82
Total A-D			40.00	23.57	33.57	-
Antenna gain			12.5			-
EIRP			52.50	36.07	46.07	-

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position M			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	80	34.40	17.87	27.87	9.86
B	16QAM	80	34.33	18.00	28.00	9.86
C	16QAM	80	34.47	18.10	28.10	9.85
D	16QAM	80	34.38	17.99	27.99	9.85
Total A-D			40.42	24.01	34.01	-
Antenna gain			12.5			-
EIRP			52.92	36.51	46.51	-

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position T			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	80	34.26	17.80	27.80	9.85
B	16QAM	80	34.19	17.76	27.76	9.83
C	16QAM	80	34.30	17.85	27.85	9.85
D	16QAM	80	34.26	17.79	27.79	9.81
Total A-D			40.27	23.82	33.82	-
Antenna gain			12.5			-
EIRP			52.77	36.32	46.32	-

TEST REPORT

NR-MIMO-1C-90:

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position B			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	90	34.48	17.47	27.47	9.83
B	16QAM	90	34.39	17.32	27.32	9.83
C	16QAM	90	34.53	17.48	27.48	9.82
D	16QAM	90	34.38	17.58	27.58	9.81
Total A-D			40.47	23.48	33.48	-
Antenna gain			12.5			-
EIRP			52.97	35.98	45.98	-

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position M			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	90	34.91	17.94	27.94	9.84
B	16QAM	90	34.82	17.97	27.97	9.85
C	16QAM	90	34.94	18.05	28.05	9.82
D	16QAM	90	34.85	18.04	28.04	9.84
Total A-D			40.90	24.02	34.02	-
Antenna gain			12.5			-
EIRP			53.40	36.52	46.52	-

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position T			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	90	34.81	17.80	27.80	9.84
B	16QAM	90	34.69	17.68	27.68	9.84
C	16QAM	90	34.83	17.73	27.73	9.83
D	16QAM	90	34.69	17.87	27.87	9.86
Total A-D			40.78	23.79	33.79	-
Antenna gain			12.5			-
EIRP			53.28	36.29	46.29	-

TEST REPORT

NR-MIMO-1C-100:

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position B			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	100	35.09	18.06	28.06	9.83
B	16QAM	100	35.01	17.75	27.75	9.84
C	16QAM	100	35.17	17.87	27.87	9.84
D	16QAM	100	35.01	17.72	27.72	9.83
Total A-D			41.09	23.87	33.87	-
Antenna gain			12.5			-
EIRP			53.59	36.37	46.37	-

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position M			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	100	35.55	18.21	28.21	9.83
B	16QAM	100	35.45	18.14	28.14	9.83
C	16QAM	100	35.61	18.26	28.26	9.83
D	16QAM	100	35.47	18.23	28.23	9.82
Total A-D			41.54	24.23	34.23	-
Antenna gain			12.5			-
EIRP			54.04	36.73	46.73	-

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position T			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	100	35.45	18.28	28.28	9.83
B	16QAM	100	35.36	18.08	28.08	9.82
C	16QAM	100	35.51	18.17	28.17	9.82
D	16QAM	100	35.37	18.04	28.04	9.82
Total A-D			41.44	24.16	34.16	-
Antenna gain			12.5			-
EIRP			53.94	36.66	46.66	-

TEST REPORT

NR-MIMO-2C-20:

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position M			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	20	30.70	16.92	26.92	-
B	16QAM	20	30.74	16.88	26.88	-
C	16QAM	20	31.06	17.23	27.23	-
D	16QAM	20	30.98	17.43	27.43	-
Total A-D			36.89	23.14	33.14	-
Antenna gain			12.5			-
EIRP			49.39	35.64	45.64	-

NR-MIMO-2C-30:

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position M			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	30	32.79	17.89	27.89	-
B	16QAM	30	32.83	17.97	27.97	-
C	16QAM	30	33.13	18.23	28.23	-
D	16QAM	30	33.09	18.29	28.29	-
Total A-D			38.98	24.12	34.12	-
Antenna gain			12.5			-
EIRP			51.48	36.62	46.62	-

NR-MIMO-2C-40:

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position M			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	40	34.03	17.84	27.84	-
B	16QAM	40	34.05	17.88	27.88	-
C	16QAM	40	34.36	18.17	28.17	-
D	16QAM	40	34.27	18.03	28.03	-
Total A-D			40.20	24.00	34.00	-
Antenna gain			12.5			-
EIRP			52.70	36.50	46.50	-

TEST REPORT

NR-MIMO-2C-50:

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position M			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	50	34.98	17.49	27.49	-
B	16QAM	50	35.00	17.51	27.51	-
C	16QAM	50	35.31	17.80	27.80	-
D	16QAM	50	35.22	17.78	27.78	-
Total A-D			41.15	23.67	33.67	-
Antenna gain			12.5			-
EIRP			53.65	36.17	46.17	-

NR-MIMO-2C-60:

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position M			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	60	35.32	17.20	27.20	-
B	16QAM	60	35.43	17.38	27.38	-
C	16QAM	60	35.67	17.60	27.60	-
D	16QAM	60	35.58	17.59	27.59	-
Total A-D			41.52	23.47	33.47	-
Antenna gain			12.5			-
EIRP			54.02	35.97	45.97	-

NR-MIMO-2C-70:

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position M			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	70	35.08	16.57	26.57	-
B	16QAM	70	35.11	16.55	26.55	-
C	16QAM	70	35.43	16.84	26.84	-
D	16QAM	70	35.33	16.89	26.89	-
Total A-D			41.26	22.74	32.74	-
Antenna gain			12.5			-
EIRP			53.76	35.24	45.24	-

TEST REPORT

NR-MIMO-6C-20:

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
			Channel position M			
			Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	20	35.30	17.02	27.02	-
B	16QAM	20	35.39	17.13	27.13	-
C	16QAM	20	35.70	17.46	27.46	-
D	16QAM	20	35.57	17.31	27.31	-
Total A-D			41.51	23.25	33.25	-
Antenna gain			12.5			-
EIRP			54.01	35.75	45.75	-

NR+LTE-MIMO-MC-1:

Antenna	Modulation	NR Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
				Channel position M			
				Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	20	10	29.61	17.42	27.42	-
B	16QAM	20	10	29.76	17.56	27.56	-
C	16QAM	20	10	29.75	17.54	27.54	-
D	16QAM	20	10	29.64	17.40	27.40	-
Total A-D				35.71	23.50	33.50	-
Antenna gain				12.5			-
EIRP				48.21	36.00	46.00	-

Antenna	Modulation	NR Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
				Channel position M			
				Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	100	20	34.17	16.20	26.20	-
B	16QAM	100	20	34.21	16.22	26.22	-
C	16QAM	100	20	34.21	16.20	26.20	-
D	16QAM	100	20	34.24	16.26	26.26	-
Total A-D				40.23	22.24	32.24	-
Antenna gain				12.5			-
EIRP				52.73	34.74	44.74	-

TEST REPORT

NR+LTE-MIMO-MC-2:

Antenna	Modulation	NR Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
				Channel position M			
				Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	20	10	31.02	17.26	27.26	-
B	16QAM	20	10	30.88	17.56	27.56	-
C	16QAM	20	10	31.05	17.71	27.71	-
D	16QAM	20	10	30.88	17.35	27.35	-
Total A-D				36.98	23.49	33.49	-
Antenna gain				12.5			-
EIRP				49.48	35.99	45.99	-

Antenna	Modulation	NR Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
				Channel position M			
				Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	100	20	34.05	15.70	25.70	-
B	16QAM	100	20	33.75	15.42	25.42	-
C	16QAM	100	20	33.92	15.57	25.57	-
D	16QAM	100	20	33.83	15.65	25.65	-
Total A-D				39.91	21.61	31.61	-
Antenna gain				12.5			-
EIRP				52.41	34.11	44.11	-

NR+LTE-MIMO-MC-3:

Antenna	Modulation	NR Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
				Channel position M			
				Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	20	10	35.23	18.11	28.11	-
B	16QAM	20	10	35.13	18.35	28.35	-
C	16QAM	20	10	35.20	18.26	28.26	-
D	16QAM	20	10	35.13	18.22	28.22	-
Total A-D				41.19	24.26	34.26	-
Antenna gain				12.5			-
EIRP				53.69	36.76	46.76	-

TEST REPORT

Antenna	Modulation	NR Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
				Channel position M			
				Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	20	20	36.55	17.50	27.50	-
B	16QAM	20	20	36.43	17.56	27.56	-
C	16QAM	20	20	36.54	17.59	27.59	-
D	16QAM	20	20	36.43	17.42	27.42	-
Total A-D				42.51	23.54	33.54	-
Antenna gain				12.5			-
EIRP				55.01	36.04	46.04	-

NR+LTE-MIMO-MC-4:

Antenna	Modulation	NR Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
				Channel position M			
				Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	20	10	35.64	18.22	28.22	-
B	16QAM	20	10	35.60	18.26	28.26	-
C	16QAM	20	10	35.68	18.34	28.34	-
D	16QAM	20	10	35.63	18.20	28.20	-
Total A-D				41.66	24.28	34.28	-
Antenna gain				12.5			-
EIRP				54.16	36.78	46.78	-

Antenna	Modulation	NR Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Power / PSD / Peak-to-Average Ratio (PAR)			
				Channel position M			
				Power (dBm)	PSD (dBm/MHz)	Power (dBm/10MHz)	PAR (dB)
A	16QAM	20	20	36.52	17.29	27.29	-
B	16QAM	20	20	36.57	17.43	27.43	-
C	16QAM	20	20	36.54	17.43	27.43	-
D	16QAM	20	20	36.57	17.25	27.25	-
Total A-D				42.57	23.37	33.37	-
Antenna gain				12.5			-
EIRP				55.07	35.87	45.87	-

4 Occupied Bandwidth

Test result: Pass

4.1 Measurement Procedure

The EUT was set to transmit at maximum power and testing was carried out on bottom, middle and top channels. Using the Occupied Bandwidth measurement function in the spectrum analyzer, the 99% and 26dB bandwidth was measured in accordance with FCC KDB 971168 D01 Clause 4.2.

TEST REPORT

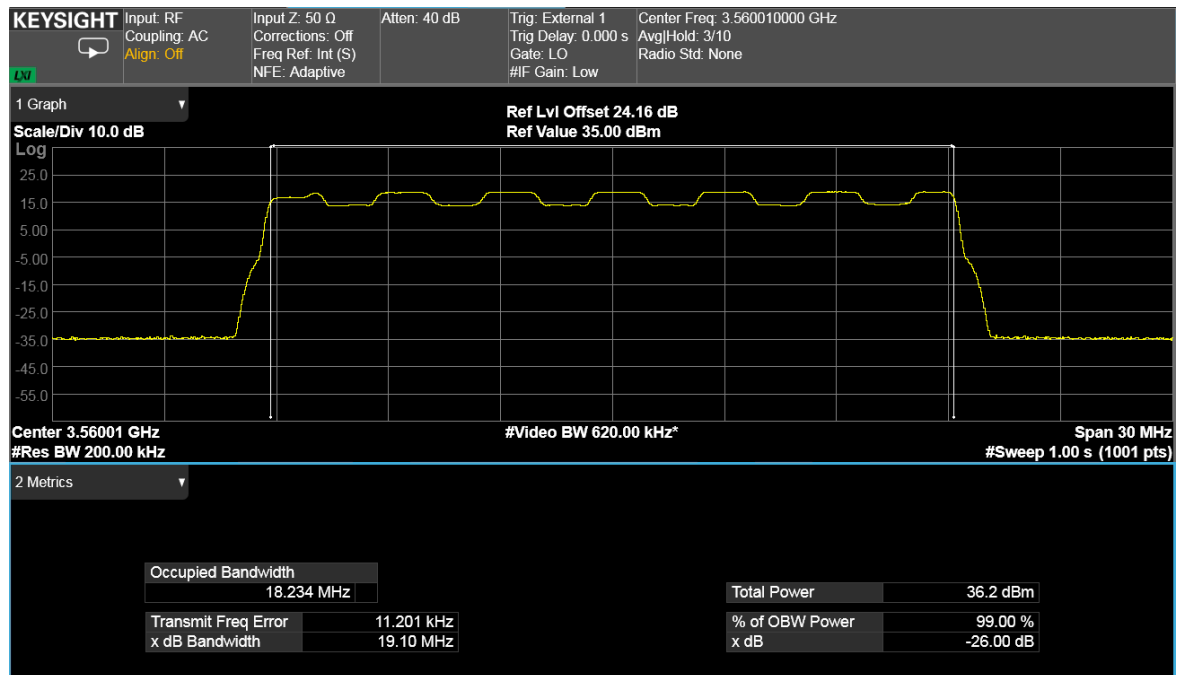
4.2 Measurement result

Configuration B:

NR-MIMO-1C-20:

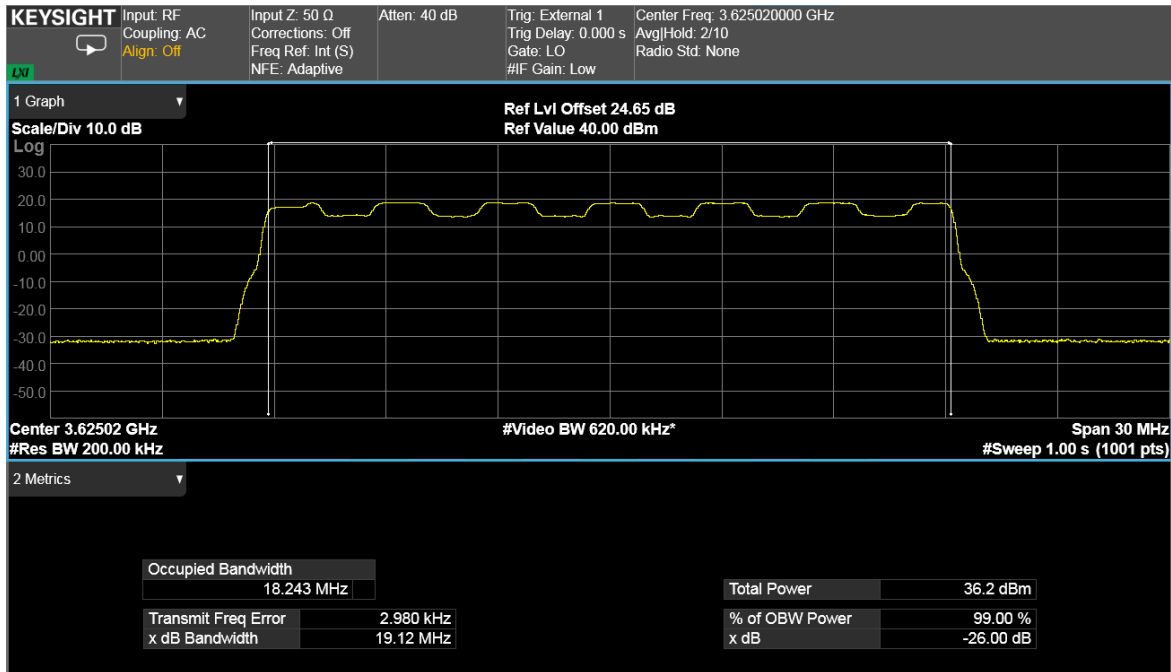
Antenna Port	Modulation	Bandwidth	Channel Position B	Channel Position M	Channel Position T
A	16QAM	20MHz	99% Occupied Bandwidth (MHz)		
			18.234	18.243	18.239
			26dB Occupied Bandwidth (MHz)		
			19.10	19.12	19.10

16QAM, 20MHz, Channel position B

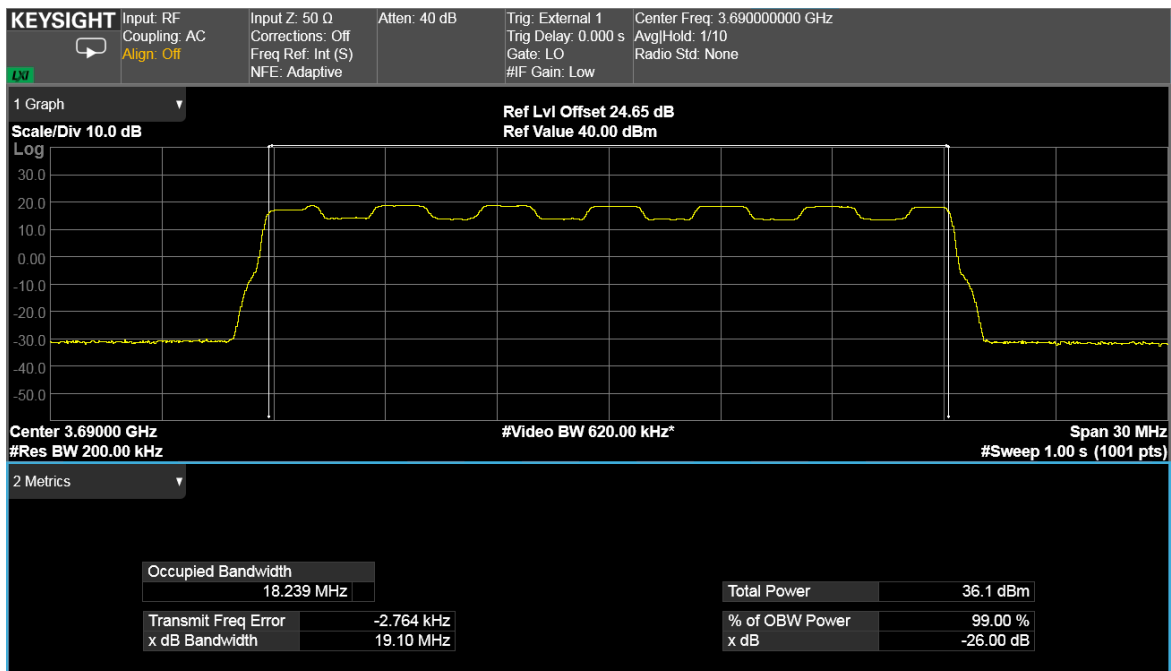


TEST REPORT

16QAM, 20MHz, Channel position M



16QAM, 20MHz, Channel position T

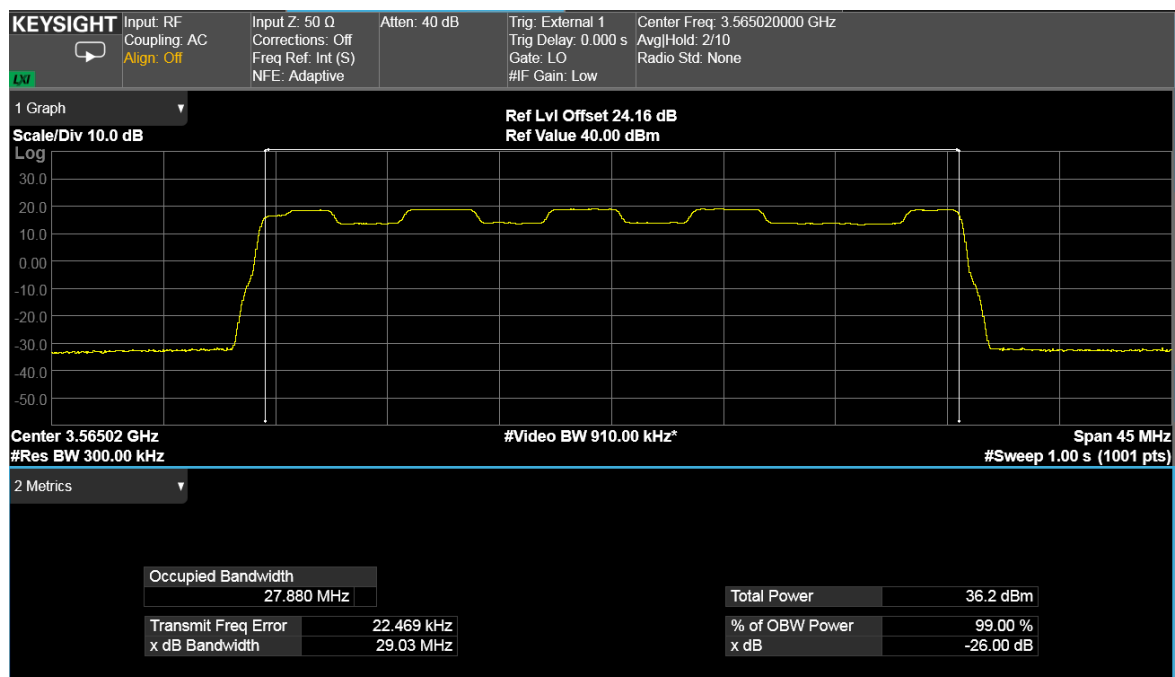


TEST REPORT

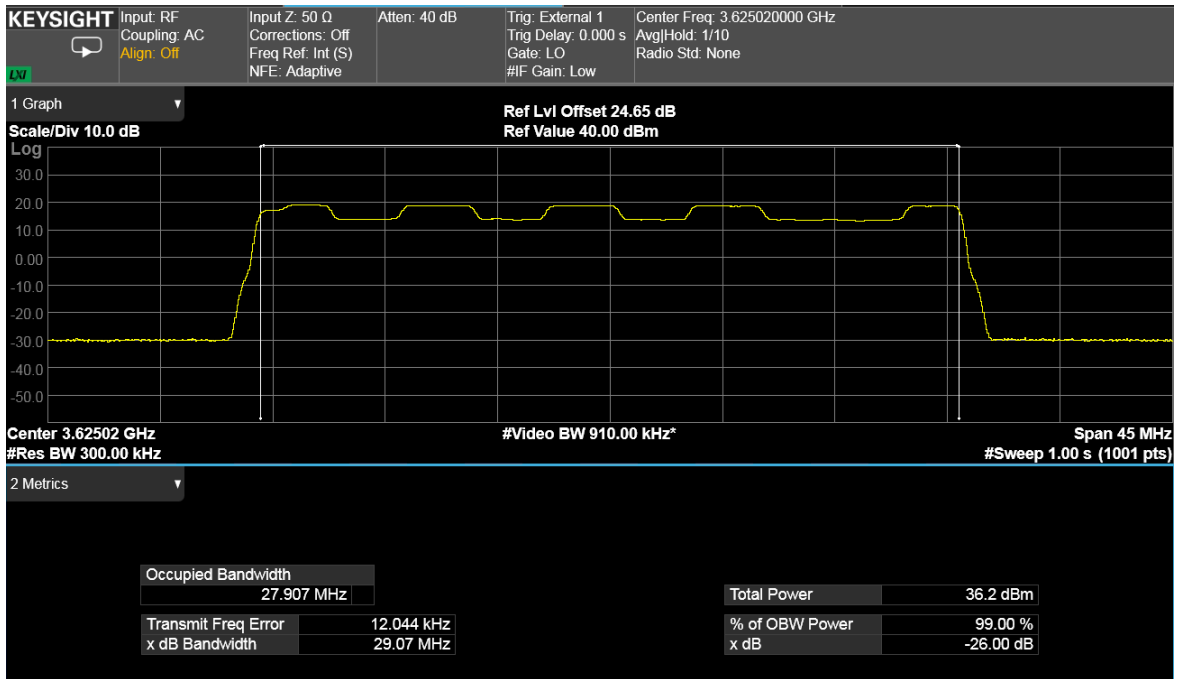
NR-MIMO-1C-30:

Antenna Port	Modulation	Bandwidth	Channel Position B	Channel Position M	Channel Position T
A	16QAM	30MHz	99% Occupied Bandwidth (MHz)		
			27.880	27.907	27.883
			26dB Occupied Bandwidth (MHz)		
			29.03	29.07	29.03

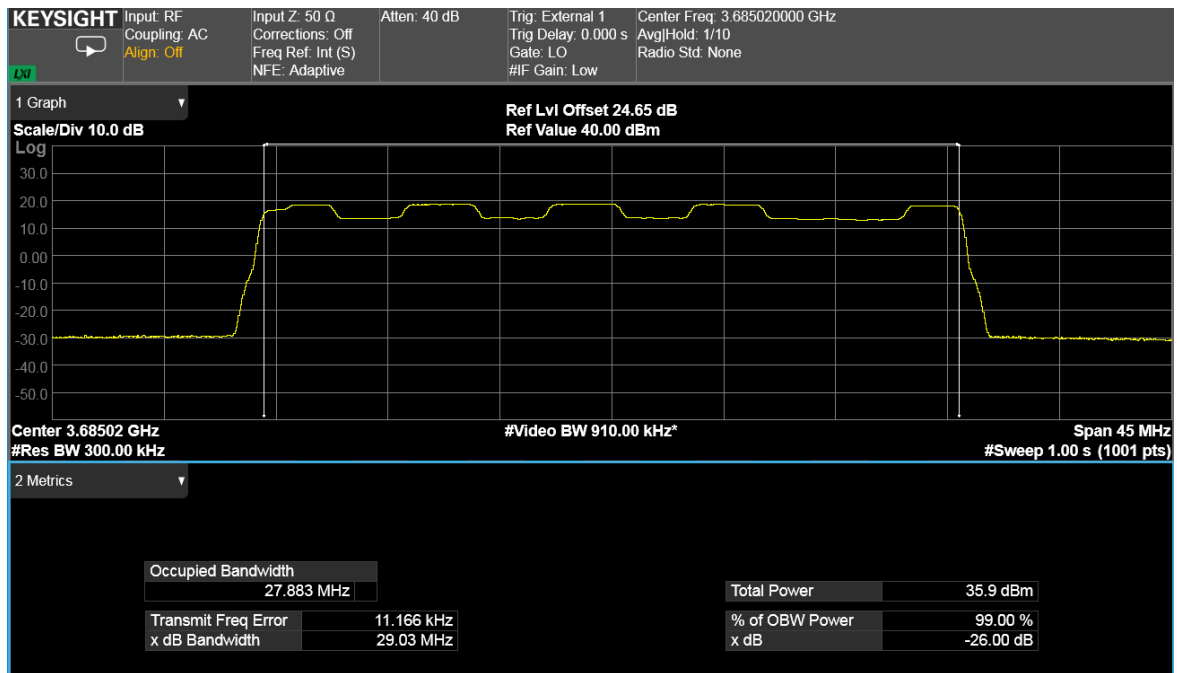
16QAM, 30MHz, Channel position B



16QAM, 30MHz, Channel position M



16QAM, 30MHz, Channel position T

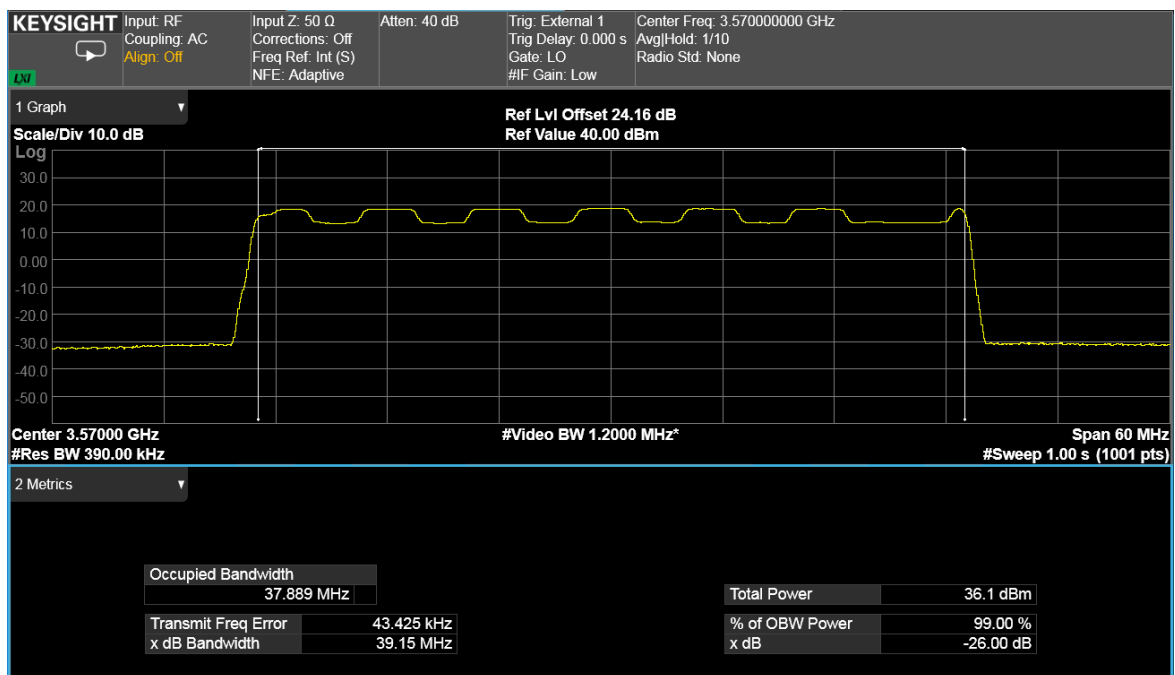


TEST REPORT

NR-MIMO-1C-40:

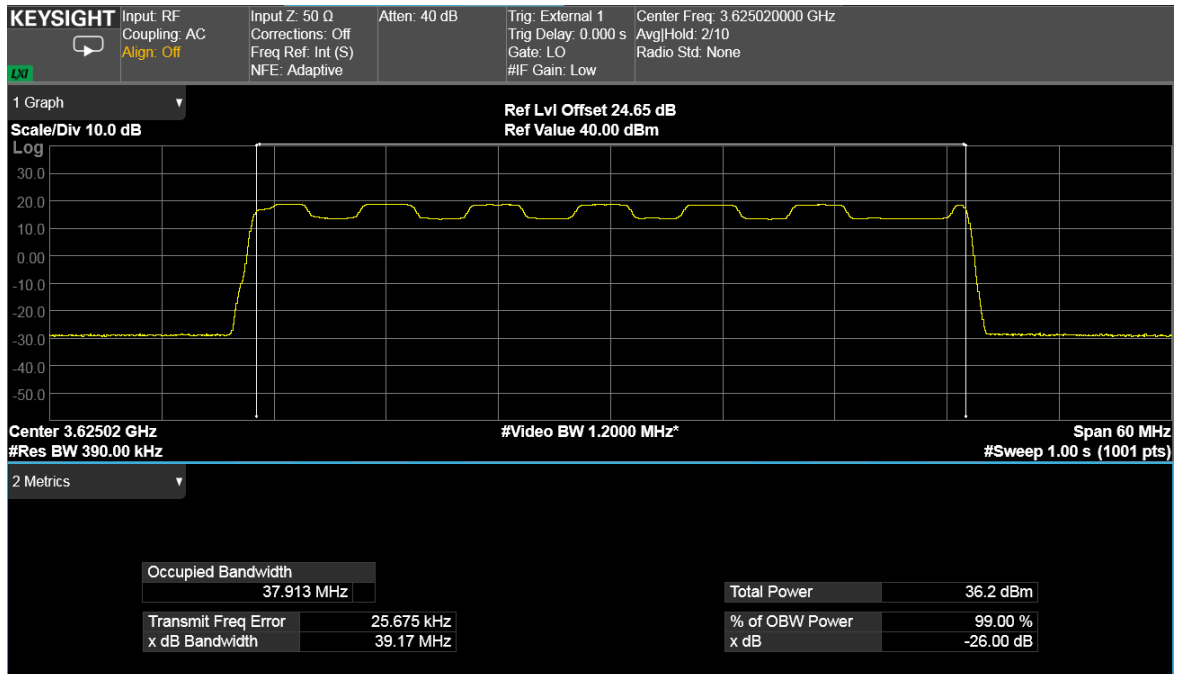
Antenna Port	Modulation	Bandwidth	Channel Position B	Channel Position M	Channel Position T
A	16QAM	40MHz	99% Occupied Bandwidth (MHz)		
			37.889	37.913	37.892
			26dB Occupied Bandwidth (MHz)		
			39.15	39.17	39.16

16QAM, 40MHz, Channel position B

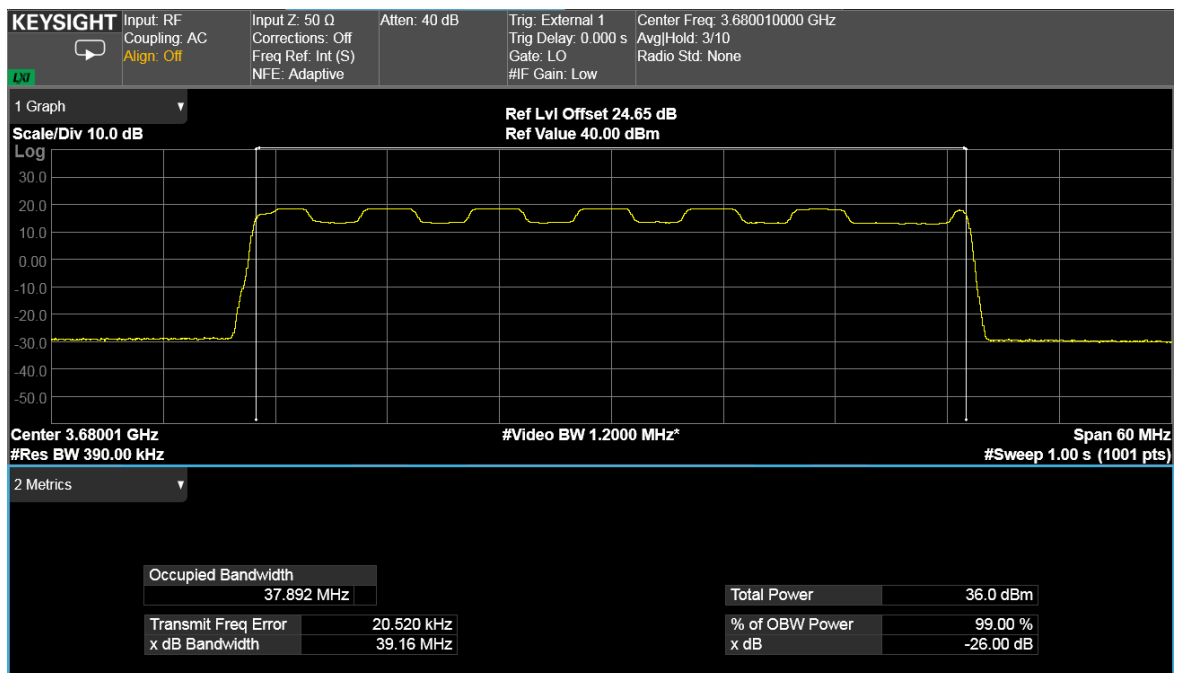


TEST REPORT

16QAM, 40MHz, Channel position M



16QAM, 40MHz, Channel position T

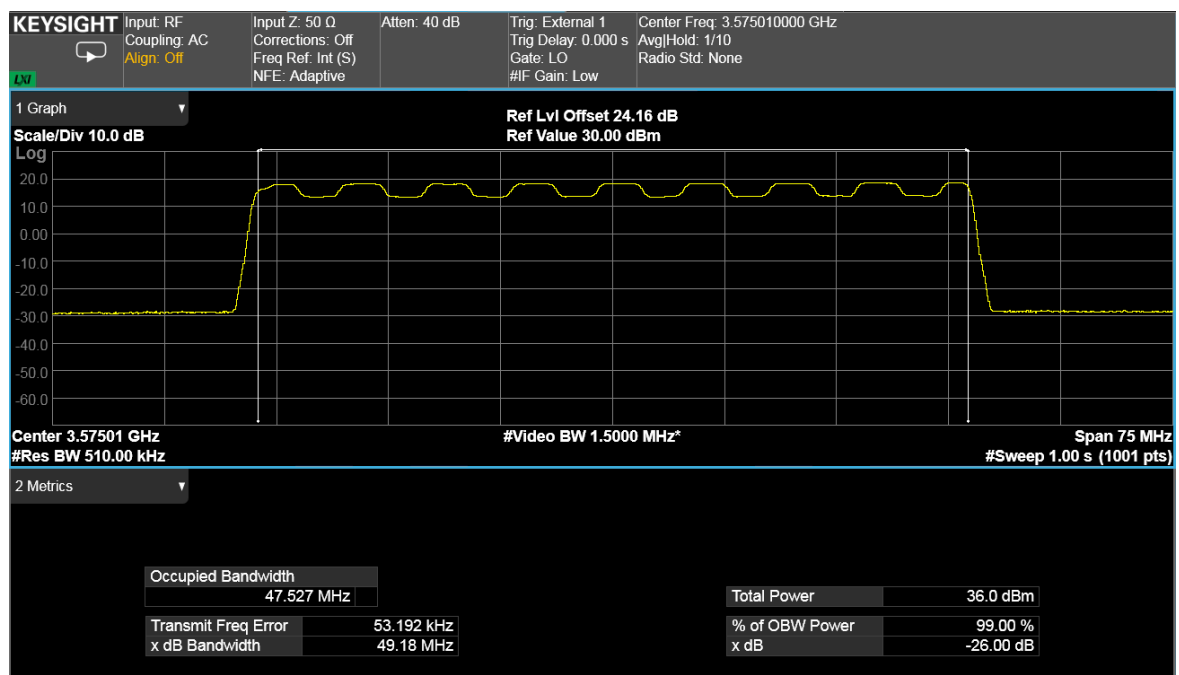


TEST REPORT

NR-MIMO-1C-50:

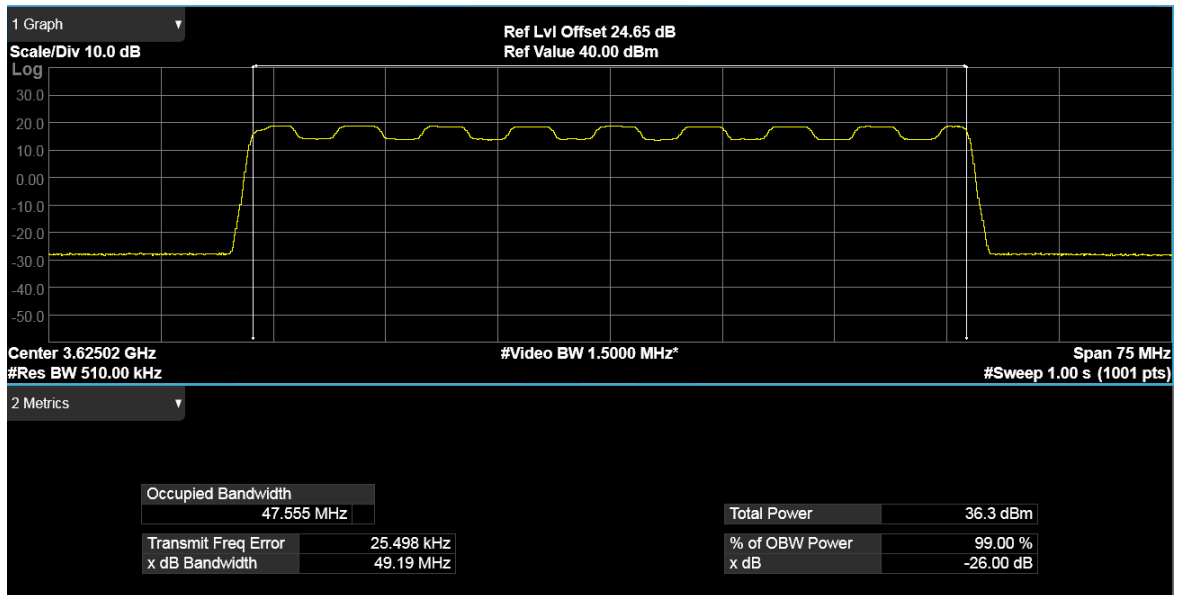
Antenna Port	Modulation	Bandwidth	Channel Position B	Channel Position M	Channel Position T
A	16QAM	50MHz	99% Occupied Bandwidth (MHz)		
			47.527	47.555	47.541
			26dB Occupied Bandwidth (MHz)		
			49.18	49.19	49.18

16QAM, 50MHz, Channel position B

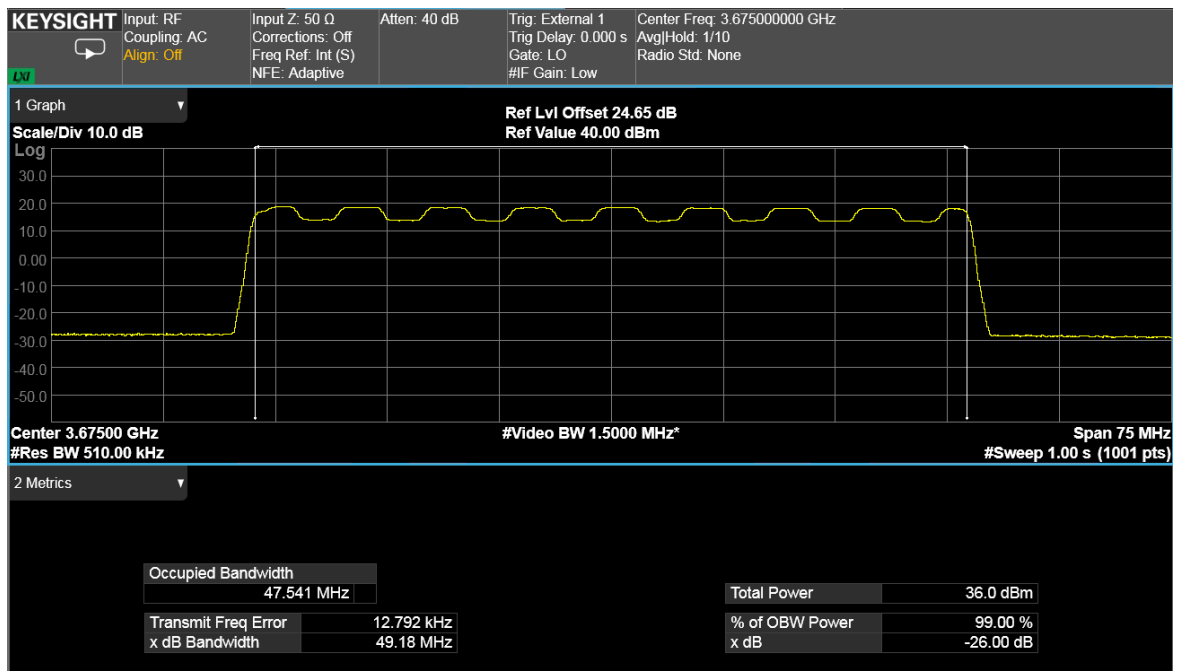


TEST REPORT

16QAM, 50MHz, Channel position M



16QAM, 50MHz, Channel position T

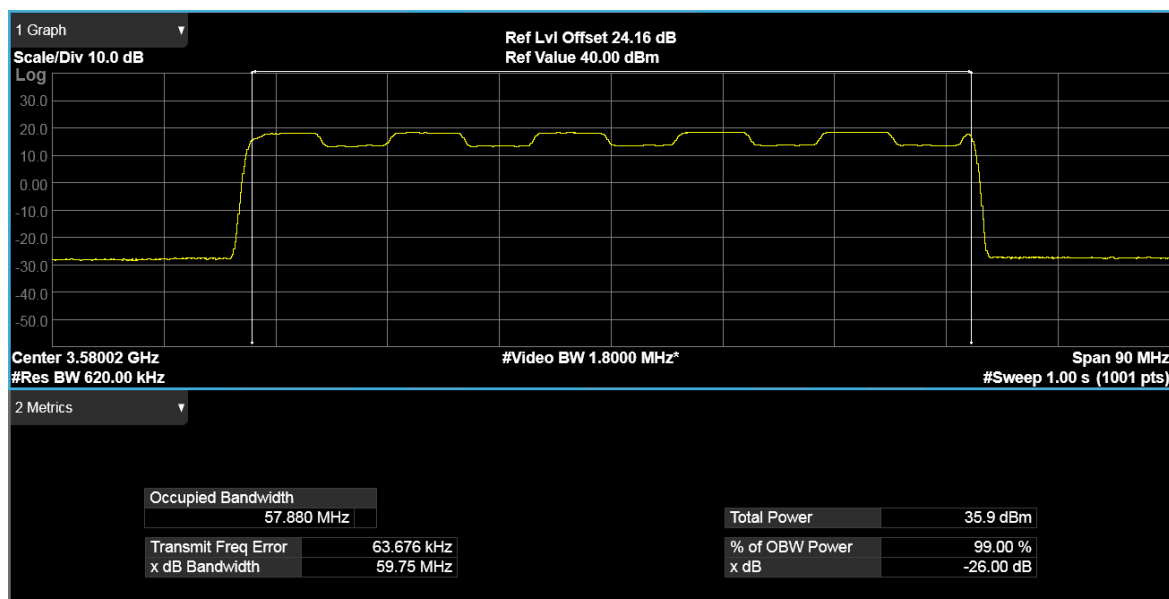


TEST REPORT

NR-MIMO-1C-60:

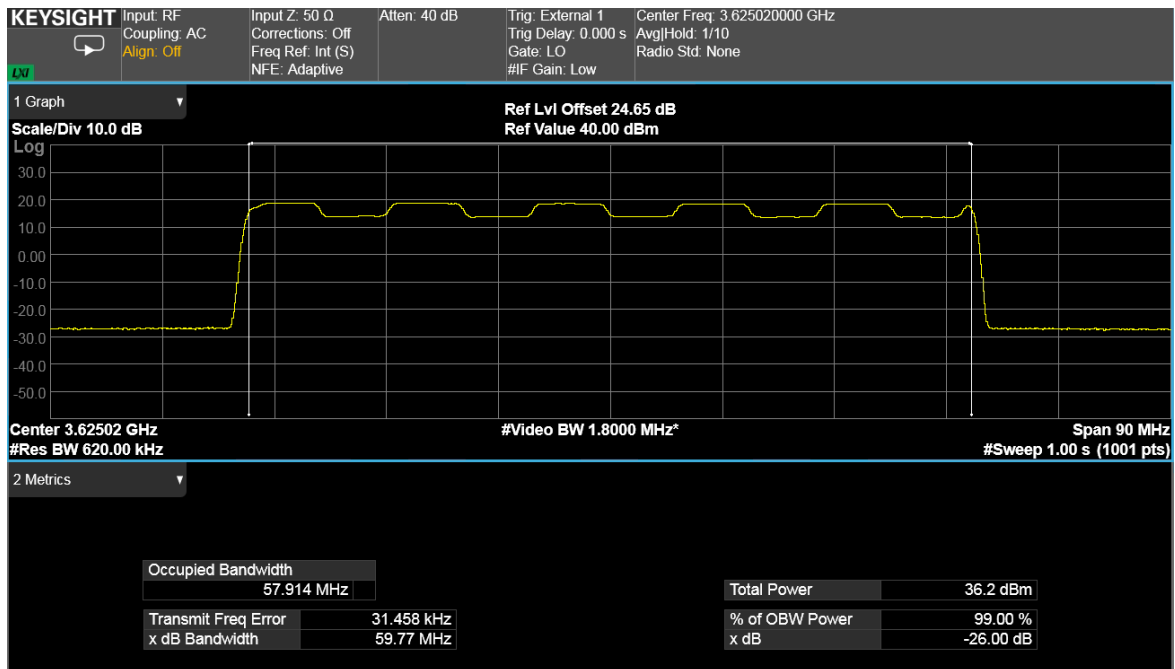
Antenna Port	Modulation	Bandwidth	Channel Position B	Channel Position M	Channel Position T
A	16QAM	60MHz	99% Occupied Bandwidth (MHz)		
			57.880	57.914	57.895
			26dB Occupied Bandwidth (MHz)		
			59.75	59.77	59.76

16QAM, 60MHz, Channel position B

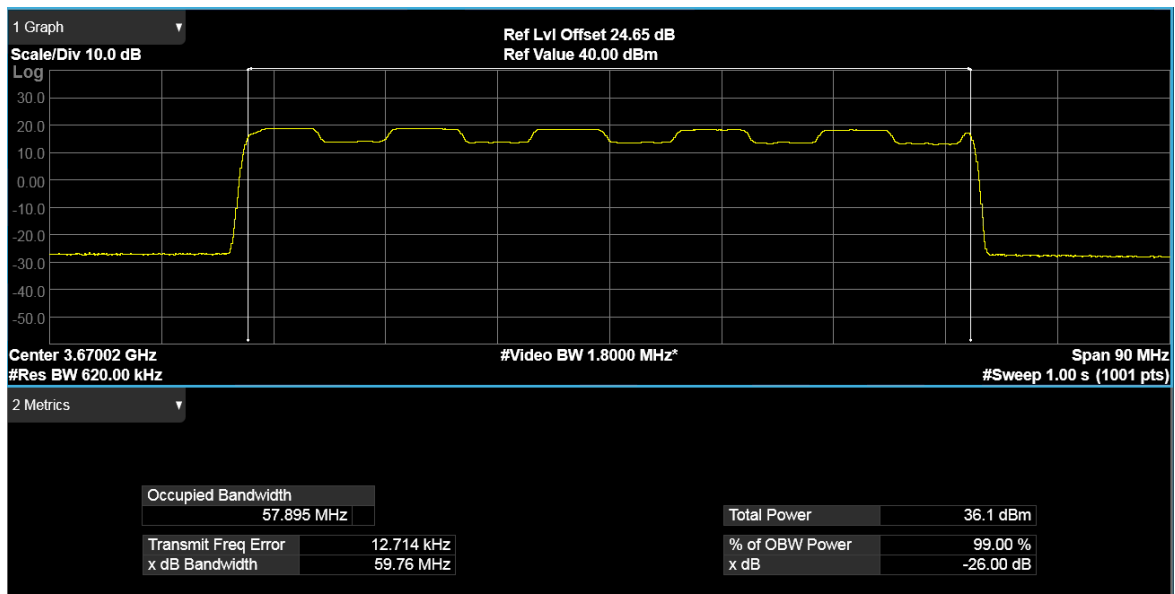


TEST REPORT

16QAM, 60MHz, Channel position M



16QAM, 60MHz, Channel position T

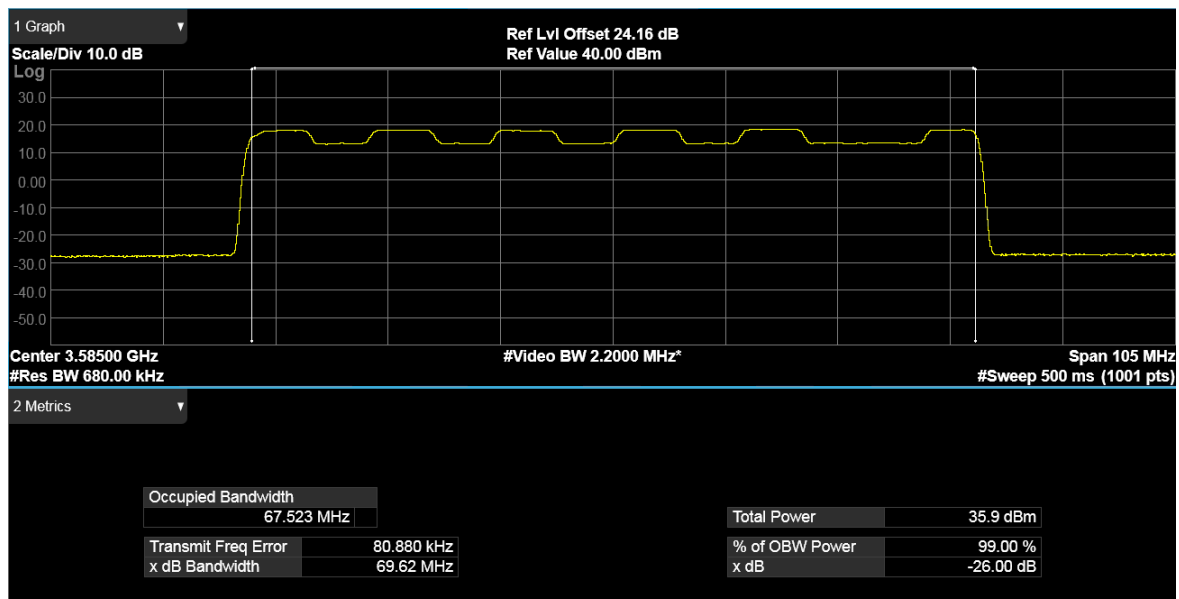


TEST REPORT

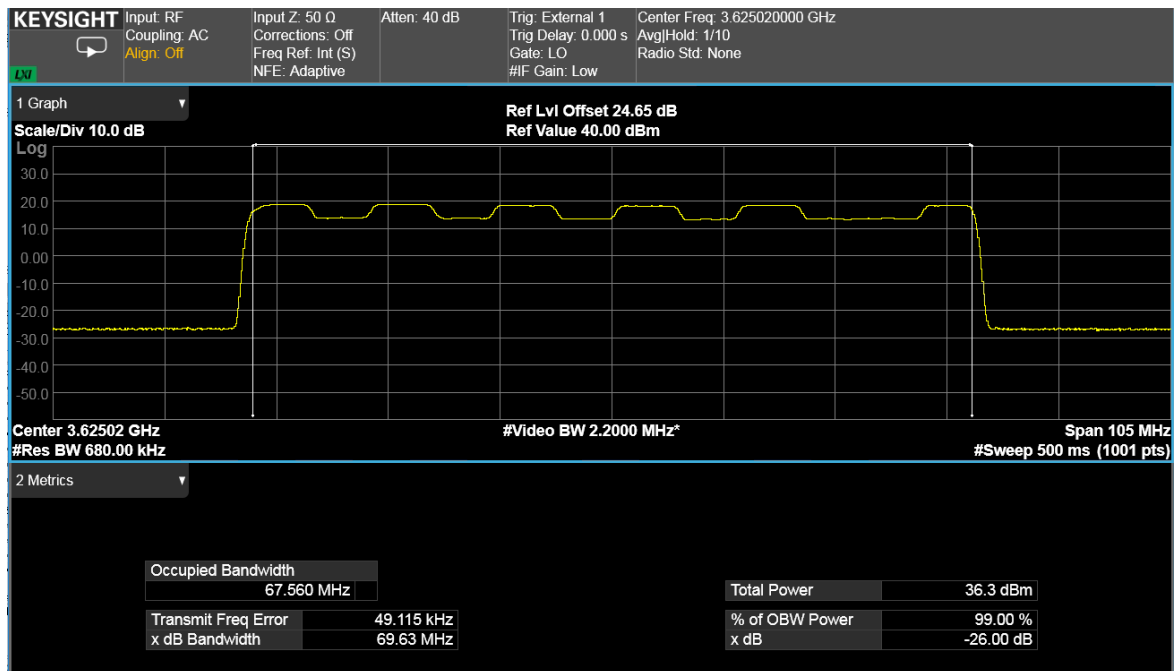
NR-MIMO-1C-70:

Antenna Port	Modulation	Bandwidth	Channel Position B	Channel Position M	Channel Position T
A	16QAM	70MHz	99% Occupied Bandwidth (MHz)		
			67.523	67.560	67.536
			26dB Occupied Bandwidth (MHz)		
			69.62	69.63	69.62

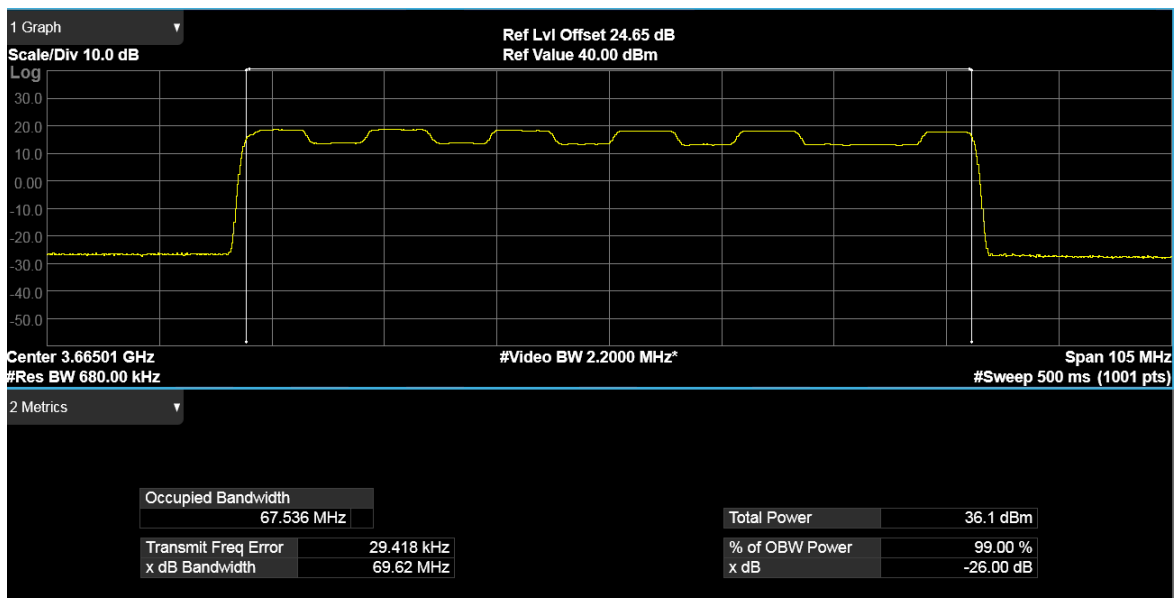
16QAM, 70MHz, Channel position B



16QAM, 70MHz, Channel position M



16QAM, 70MHz, Channel position T

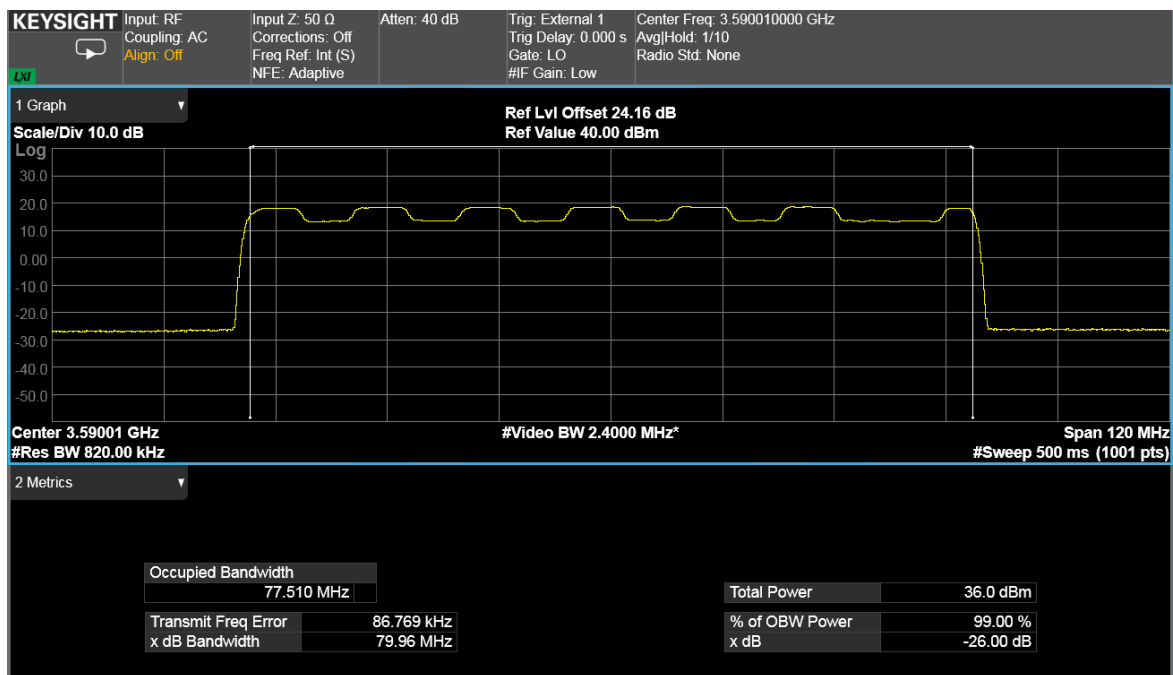


TEST REPORT

NR-MIMO-1C-80:

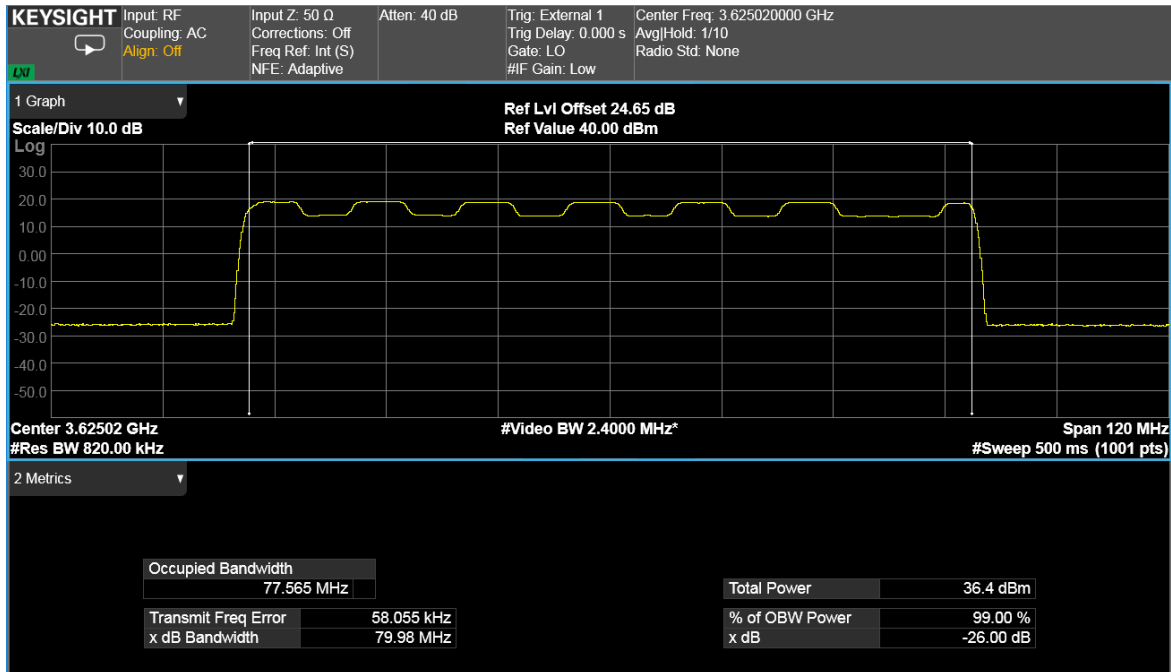
Antenna Port	Modulation	Bandwidth	Channel Position B	Channel Position M	Channel Position T
A	16QAM	80MHz	99% Occupied Bandwidth (MHz)		
			77.510	77.565	77.533
			26dB Occupied Bandwidth (MHz)		
			79.96	79.98	79.96

16QAM, 80MHz, Channel position B

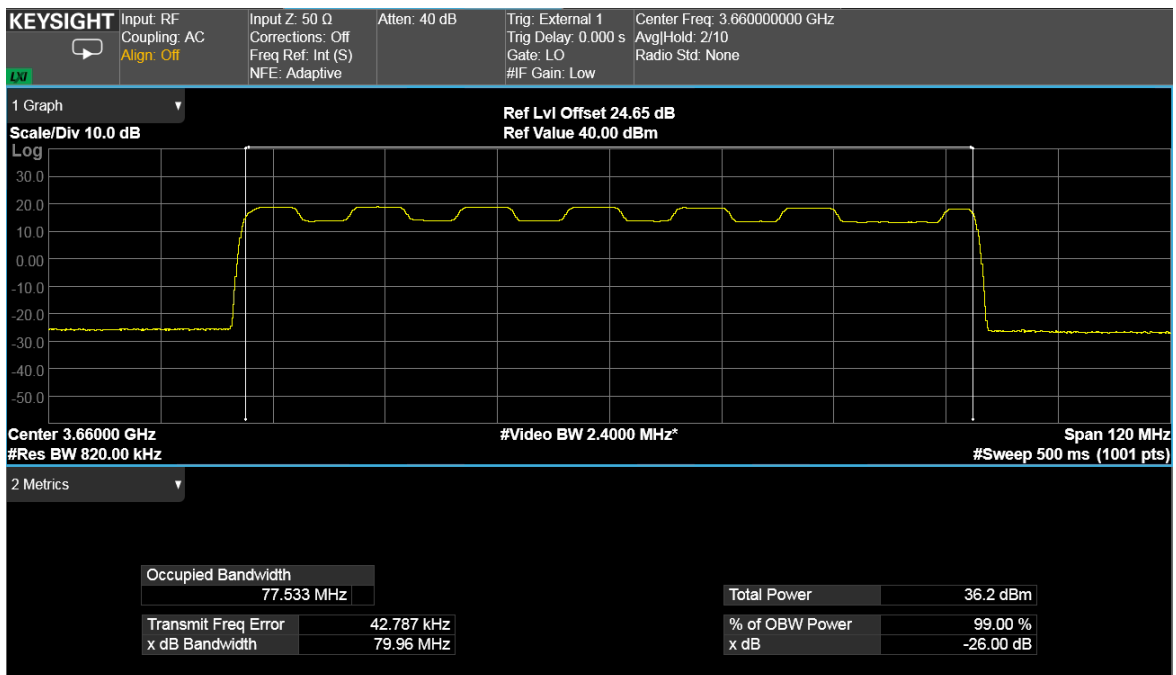


TEST REPORT

16QAM, 80MHz, Channel position M



16QAM, 80MHz, Channel position T



TEST REPORT

NR-MIMO-1C-90:

Antenna Port	Modulation	Bandwidth	Channel Position B	Channel Position M	Channel Position T
A	16QAM	90MHz	99% Occupied Bandwidth (MHz)		
			87.533	87.562	87.568
			26dB Occupied Bandwidth (MHz)		
			90.24	90.24	90.25

16QAM, 90MHz, Channel position B

