



No.I20Z61972-WMD01



TEST REPORT

No.I20Z61972-WMD01

for

Ericsson AB Radio 4402 B7 KRC 161 741/2

Remote Radio Unit

FCC ID: TA8AKRC161741-2

ISED: 287AB-AS1617412

In accordance with FCC CFR 47 Part 27 and

ISED RSS-199: Issue 3

Issued Date: 2020-12-22

Note:

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I20Z61972-WMD01	Rev.0	1 st edition	2020-12-22

Note: the latest revision of the test report supersedes all previous version.

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1. Test Laboratory

1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2017 accredited test laboratory under NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) with lab code 600118-0, and is also an FCC accredited test laboratory (CN5017), and ISED accredited test laboratory (ISED#: 24849). The detail accreditation scope can be found on NVLAP website.

1.2. Testing Location

Location 1: CTTL(huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing,
P. R. China 100191

Location 4: CTTL(BDA)

Address: No.18A, Kangding Street, Beijing Economic-Technology
Development Area, Beijing, P. R. China 100176

1.3. Project date

Testing Start Date: 2020-11-23

Testing End Date: 2020-12-14

1.4. Signature

Dong Yuan

(Prepared this test report)



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(Reviewed this test report)



Liu Baodian

(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name: Ericsson (China) Communications Company Ltd.
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100102, P.R.China
Contact: Ling Pan
Email: Ling.l.pan@ericsson.com
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2.2. Manufacturer Information

Company Name: Ericsson AB
Address /Post: Isafjordsgatan 10, 164 80 Stockholm
Sweden
Contact: /
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Telephone: /

3. Equipment Under Test (EUT)

3.1. About EUT

Description	Remote Radio Unit
Product Name	Radio 4402 B7
Product Number	KRC 161 741/2
FCC ID	TA8AKRC161741-2
ISED	287AB-AS1617412
Antenna	KRE 105 283/1
Output power	Maximum 34.0dBm (2.5W) per carrier per port for LTE less than 5MHz Maximum 33.0dBm (2W) per carrier per port for NB-IoT-Standalone Maximum 37.0dBm (5W) per port for other modes.
Power source	36V DC
Serial Number	S82B010950
Hardware Version	R1B
Software Version	ngr2_app-CXP9013268_15-R84KM09
Frequency range	RX: 2500-2570 MHz, TX: 2620-2690 MHz
Number of Antenna ports	4TX /4 RX
Maximum RF bandwidth (IBW)	70 MHz (20 MHz for LTE less than 5MHz and NB-IoT-Standalone)
Maximum Number of supported carriers per port	6 carriers
Supported modulations	WCDMA: QPSK, 16QAM and 64QAM LTE and NR: QPSK, 16QAM, 64QAM and 256QAM NB-IoT: QPSK
Date of receipt	2020-11-23

3.2. General Description

The Equipment Under Test (EUT) Radio 4402 B7 is an Ericsson Remote Radio Unit working in the wireless communications services 2600MHz band which provides communication connections to network in WCDMA, LTE, NB-IoT and NR MSR modes. The Radio 4402 B7 KRC 161 741/2 operates from a 36V DC or a 120 AC power supply.

The EUT includes 4 TX/RX ports and it can be configured to transmit in MIMO mode for WCDMA, LTE and NR carriers, and 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.



Equipment Under Test

3.3. Configuration Description

The following settings were used to represent all traffic scenarios. The output power was measured on the bottom, middle and top channel of all applicable antenna ports. By measuring the output power of QPSK, 16QAM and 64QAM for WCDMA and QPSK, 16QAM, 64QAM and 256QAM for LTE and NR on one of the antenna ports, it was determined that QPSK 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 established as being the highest output power from the applicable measured ports on worst case modulation scheme. This antenna port was port D for WCDMA, LTE and NR mode.

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

WCDMA

Configuration	Carrier	Carrier Frequency Configuration (MHz)		
		Bottom	Middle	Top
WCDMA-1C	1 Carrier	2622.4	2655.0	2687.6
WCDMA-2C	2 Carriers	-	2622.4+2687.6	-
WCDMA-6C	6 Carriers	-	2622.4+2627.4+2632.4+2677.6+2682.6+2687.6	-
WCDMA-1C-BE	1 Carrier	2622.4	N/A	2687.6
WCDMA-2C-BE	2 Carriers	2622.4+2627.4	N/A	2682.6+2687.6

LTE

Configuration	Carrier	Carrier Bandwidth	Carrier Frequency Configuration (MHz)		
			Bottom	Middle	Top
LTE-MIMO-1C	1 Carrier	1.4MHz	2620.7	2655.0	2689.3
		3.0MHz	2621.5	2655.0	2688.5
		5.0MHz	2622.5	2655.0	2687.5
		10.0MHz	2625.0	2655.0	2685.0
		15.0MHz	2627.5	2655.0	2682.5
		20.0MHz	2630.0	2655.0	2680.0
LTE-MIMO-2C	2 Carriers	1.4MHz	2620.7+2639.3	2645.7+2664.3	2670.7+2689.3
		3.0MHz	2621.5+2638.5	2646.5+2663.5	2671.5+2688.5
		5.0MHz	-	2622.5+2687.5	-
		10.0MHz	-	2625+2685	-
		15.0MHz	-	2627.5+2682.5	-
		20.0MHz	-	2630+2680	-

Configuration	Carrier	Carrier Bandwidth	Carrier Frequency Configuration (MHz)		
			Bottom	Middle	Top
LTE-MIMO-6C	6 Carriers	1.4MHz	2620.7+2622.1+2623.5+2636.5+2637.9+2639.3	2645.7+2647.1+2648.5+2661.5+2662.9+2664.3	2670.7+2672.1+2673.5+2686.5+2687.9+2689.3
		3.0MHz	2621.5+2624.5+2627.5+2632.5+2635.5+2638.5	2646.5+2649.5+2652.5+2657.5+2660.5+2663.5	2671.5+2674.5+2677.5+2682.5+2685.5+2688.5
		5.0MHz	-	2622.5+2627.5+2632.5+2677.5+2682.5+2687.5	-
		10.0MHz	-	2625+2635+2645+2665+2675+2685	-
LTE-MIMO-4C	4 Carriers	15.0MHz	-	2627.5+2642.5+2667.5+2682.5	-
LTE-MIMO-3C	3 Carriers	20.0MHz	-	2630+2650+2680	-
LTE-MIMO-1C-BE	1 Carrier	3.0MHz	2621.5	N/A	2688.5
		10.0MHz	2625.0	N/A	2685.0
LTE-MIMO-2C-BE	2 Carriers	3.0MHz	2621.5+2624.5	N/A	2685.5+2688.5
		10.0MHz	2625+2635	N/A	2675+2685

NB-IoT

Configuration	Carrier	Carrier Bandwidth (MHz)	Carrier Frequency Configuration (MHz)		
			Bottom	Middle	Top
NB-IoT-InBand-1C	1 Carrier	5.0MHz	2622.5	2655.0	2687.5
		10.0MHz	2625.0	2655.0	2685.0
		15.0MHz	2627.5	2655.0	2682.5
		20.0MHz	2630.0	2655.0	2680.0
NB-IoT-Inband-1C-BE	1 Carrier	10.0MHz	2625.0	N/A	2685.0

Configuration	Carrier	Carrier Bandwidth (MHz)	Carrier Frequency Configuration (MHz)		
			Bottom	Middle	Top
NB-IoT-GuardBand-1C	1 Carrier	10.0MHz	2625.0	2655.0	2685.0
		15.0MHz	2627.5	2655.0	2682.5
		20.0MHz	2630.0	2655.0	2680.0
NB-IoT-GuardBand-1C-BE	1 Carrier	10.0MHz	2625.0	N/A	2685.0

Configuration	Carrier	Carrier Frequency Configuration (MHz)		
		Bottom	Middle	Top
NB-IoT-Standalone-1C	1 Carrier	2620.2	2655.0	2689.8
NB-IoT-Standalone-1C-BE	1 Carrier	2620.2	N/A	2689.8

WCDMA+LTE

Configuration	Carrier	LTE Carrier Bandwidth	Carrier Frequency Configuration (MHz)		
			Bottom	Middle	Top
WCDMA+LTE-MI MO-MC-1	1W+1L	3.0MHz	-	(W)2622.4+(L)2688.5	-
		10.0MHz	-	(W)2622.4+(L)2685	-
WCDMA+LTE-MI MO-MC-2	2W+1L	3.0MHz	-	(W)2622.4+2627.4+(L)2688.5	-
		10.0MHz	-	(W)2622.4+2627.4+(L)2685	-
WCDMA+LTE-MI MO-MC-3	3W+3L	3.0MHz	-	(W)2622.4+2627.4+2632.4+(L)2682.5+2685.5+2688.5	-
		10.0MHz	-	(W)2622.4+2627.4+2632.4+(L)2665+2675+2685	-
WCDMA+LTE-MI MO-MC-3	2W+3L	20.0MHz	-	(W)2622.4+2627.4+(L)2640+2660+2680	-
WCDMA+LTE-MI MO-MC-1-BE	1W+1L	3.0MHz	(L)2621.5+(W)2625.4	N/A	(W)2684.6+(L)2688.5
		10.0MHz	(W)2622.4+(L)2630	N/A	(L)2680+(W)2687.6
WCDMA+LTE-MI MO-MC-2-BE	1W+2L	3.0MHz	(L)2621.5+2624.5+(W)2628.4	N/A	(W)2681.6+(L)2685.5+2688.5
WCDMA+LTE-MI MO-MC-3-BE	2W+1L	10.0MHz	(W)2622.4+2627.4+(L)2635	N/A	(L)2675+(W)2682.6+2687.6

WCDMA+NB-IoT

Configuration	Carrier	Carrier Frequency Configuration (MHz)		
		Bottom	Middle	Top
WCDMA+NB-IoT-MC-1	1W+1NB	-	(W)2622.4+(NB)2689.8	-
WCDMA+NB-IoT-MC-2	2W+1NB	-	(W)2622.4+2627.4+(NB)2689.8	-
WCDMA+NB-IoT-MC-3	5W+1NB	-	(W)2622.4+2627.4+2632.4+2637.4+2632.4+(NB)2689.8	-
WCDMA+NB-IoT-MC-1-BE	1W+1NB	(NB)2620.2+(W)2622.8	N/A	(W)2687.2+(NB)2689.8
WCDMA+NB-IoT-MC-2-BE	2W+1NB	(NB)2620.2+(W)2622.8+2627.8	N/A	(W)2682.2+2687.2+(NB)2689.8

LTE+NB-IoT

Configuration	Carrier	LTE Carrier Bandwidth	Carrier Frequency Configuration (MHz)		
			Bottom	Middle	Top
LTE+NB-IoT-MI MO-MC-1	1L+1NB	3.0MHz	(L)2621.5+(NB)2639.8	(L)2646.5+(NB)2664.8	(L)2671.5+(NB)2689.8
		10.0MHz	-	(L)2625+(NB)2689.8	-
LTE+NB-IoT-MI MO-MC-2	2L+1NB	3.0MHz	(L)2621.5+2624.5+(NB)2 639.8	(L)2646.5+2649.5+(NB)2 664.8	(L)2671.5+2674.5+(NB)2 689.8
		10.0MHz	-	(L)2625+2635+(NB)2689. 8	-
LTE+NB-IoT-MI MO-MC-3	5L+1NB	3.0MHz	(L)2621.5+2624.5+2627. 5+2630.5+2633.5+(NB)2 639.8	(L)2646.5+2649.5+2652. 5+2655.5+2658.5+(NB)2 664.8	(L)2671.5+2674.5+2677. 5+2680.5+2683.5+(NB)2 689.8
		10.0MHz	-	(L)2625+2635+2645+265 5+2665+(NB)2689.8	-
LTE+NB-IoT-MI MO-MC-4	4L+1NB	15.0MHz	-	(L)2627.5+2642.5+2657. 5+2672.5+(NB)2689.8	-
LTE+NB-IoT-MI MO-MC-5	3L+1NB	20.0MHz	-	(L)2630+2650+2670+(NB)2689.8	-
LTE+NB-IoT-MC- 1-BE	1L+1NB	3.0MHz	(NB)2620.2+(L)2621.9	N/A	(L)2688.1+(NB)2689.8
		10.0MHz	(NB)2620.2+(L)2625.4	N/A	(L)2684.6+(NB)2689.8
LTE+NB-IoT-MC- 2-BE	2L+1NB	3.0MHz	(NB)2620.2+(L)2621.9+2 626.4	N/A	(L)2685.1+2688.1+(NB)2 689.8
		10.0MHz	(NB)2620.2+(L)2625.4+2 640.4	N/A	(L)2674.6+2684.6+(NB)2 689.8

WCDMA+LTE+NB-IoT

Configuration	Carrier	LTE Carrier Bandwidth	Carrier Frequency Configuration (MHz)		
			Bottom	Middle	Top
WCDMA+LTE+N B-IoT-MC-1	1W+1L +1NB	3.0MHz	(NB)2620.2+(W)2630+(L) 2638.5	(NB)2645.2+(W)2655+(L) 2663.5	(NB)2670.2+(W)2680+(L) 2688.5
		10.0MHz	-	(NB)2620.2+(W)2655+(L) 2685	-
WCDMA+LTE+N B-IoT-MC-2	2W+1L +1NB	3.0MHz	(NB)2620.2+(W)2627.4+ 2632.4+(L)2638.5	(NB)2645.2+(W)2652.4+ 2657.4+(L)2663.5	(NB)2670.2+(W)2677.4+ 2682.4+(L)2688.5
		10.0MHz	-	(NB)2620.2+(W)2652.4+ 2657.4+(L)2685	-
WCDMA+LTE+N B-IoT-MC-3	3W+2L +1NB	3.0MHz	(NB)2620.2+(W)2625+26 30+2635+(L)2635.5+263 8.5	(NB)2645.2+(W)2650+26 55+2660+(L)2660.5+266 3.5	(NB)2670.2+(W)2675+26 80+2685+(L)2685.5+268 8.5
		10.0MHz	-	(NB)2620.2+(W)2650+26 55+2660+(L)2675+2685	-

Configuration	Carrier	LTE Carrier Bandwidth	Carrier Frequency Configuration (MHz)		
			Bottom	Middle	Top
WCDMA+LTE+N B-IoT-MC-1-BE	1W+1L +1NB	3.0MHz	(NB)2620.2+(L)2621.9+(W)2625.8	N/A	(W)2684.2+(L)2688.1+(N B)2689.8
		10.0MHz	(NB)2620.2+(L)2625.4+(W)2632.8	N/A	(W)2677.2+(L)2684.6+(N B)2689.8
WCDMA+LTE+N B-IoT-MC-2-BE	1W+2L +1NB	3.0MHz	(NB)2620.2+(L)2621.9+2 624.9+(W)2628.8	N/A	(W)2681.2+(L)2685.1+26 88.1+(NB)2689.8
		10.0MHz	(NB)2620.2+(L)2625.4+2 631.9+(W)2642.8	N/A	(W)2667.2+(L)2674.6+26 84.6+(NB)2689.8

NR

Configuration	Carrier	Carrier Bandwidth	Carrier Frequency Configuration (MHz)		
			Bottom	Middle	Top
NR-MIMO-1C	1 Carrier	5.0MHz	2622.5	2655.0	2687.5
		10.0MHz	2625.0	2655.0	2685.0
		15.0MHz	2620.0	2655.0	2690.0
		20.0MHz	2630.0	2655.0	2680.0
NR-MIMO-2C	2 Carriers	5.0MHz	-	2622.5+2687.5	-
		10.0MHz	-	2625+2685	-
		15.0MHz	-	2627.5+2682.5	-
		20.0MHz	-	2630+2680	-
NR-MIMO-6C	6 Carriers	5.0MHz	-	2622.5+2627.5+2632. 5+2677.5+2682.5+268 7.5	-
		10.0MHz	-	2625+2635+2645+266 5+2675+2685	-
NR-MIMO-4C	4 Carriers	15.0MHz	-	2627.5+2642.5+2667. 5+2682.5	-
NR-MIMO-3C	3 Carriers	20.0MHz	-	2630+2650+2680	-
NR-MIMO-1C-BE	1 Carrier	20.0MHz	2630.0	N/A	2680.0
NR-MIMO-2C-BE	2 Carriers	20.0MHz	2630+2650	N/A	2660+2680

WCDMA+NR

Configuration	Carrier	NR Carrier Bandwidth	Carrier Frequency Configuration (MHz)		
			Bottom	Middle	Top
WCDMA+NR-MI MO-MC-1	1W+1N R	20.0MHz	-	(W)2622.4+(NR)2680	-
WCDMA+NR-MI MO-MC-2	2W+1N R	20.0MHz	-	(W)2622.4+2627.4+(NR) 2680	-
WCDMA+NR-MI MO-MC-3	3W+3N R	15.0MHz	-	(W)2622.4+2627.4+2632. 4+(NR)2652.5+2667.5+2 682.5	-

Configuration	Carrier	NR Carrier Bandwidth	Carrier Frequency Configuration (MHz)		
			Bottom	Middle	Top
WCDMA+NR-MI MO-MC-3	2W+3N R	20.0MHz	-	(W)2622.4+2627.4+(NR) 2640+2660+2680	-
WCDMA+NR-MI MO-MC-1-BE	1W+1N R	20.0MHz	(W)2622.4+(NR)2635	N/A	(NR)2675+(W)2687.6
WCDMA+NR-MI MO-MC-2-BE	2W+1N R	20.0MHz	(W)2622.4+2627.4+(NR) 2640	N/A	(NR)2670+(W)2682.6+26 87.6

LTE+NR

Configuration	Carrier	Carrier Bandwidth	Carrier Frequency Configuration (MHz)		
			Bottom	Middle	Top
LTE+NR-MIMO- MC-1	1L+1NR	3.0MHz+5.0 MHz	-	(NR)2622.5+(L)2688.5	-
		1.4MHz+20. 0MHz	-	(NR)2630+(L)2689.3	-
		5.0MHz+20. 0MHz	-	(NR)2630+(L)2687.5	-
LTE+NR-MIMO- MC-2	1L+2NR	3.0MHz+5.0 MHz	-	(NR)2622.5+2627.5+(L)2 688.5	-
		1.4MHz+20. 0MHz	-	(NR)2630+2650+(L)2689. 3	-
LTE+NR-MIMO- MC-3	3L+3NR	3.0MHz+5.0 MHz	-	(NR)2622.5+2627.5+263 2.5+(L)2682.5+2685.5+2 688.5	-
		1.4MHz+20. 0MHz	-	(NR)2630+2650+2670+(L)2686.5+2687.9+2689.3	-
LTE+NR-MIMO- MC-3	3L+3NR	5.0MHz+15. 0MHz	-	(NR)2627.5+2642.5+265 7.5+(L)2677.5+2682.5+2 687.5	-
LTE+NR-MIMO- MC-4	2L+3NR	5.0MHz+20. 0MHz	-	(NR)2630+2650+2670+(L)2682.5+2687.5	-
LTE+NR-MIMO- MC-1-BE	1L+1NR	5.0MHz+20. 0MHz	(L)2622.5+(NR)2635	N/A	(NR)2675+(L)2687.5
LTE+NR-MIMO- MC-2-BE	2L+1NR	5.0MHz+20. 0MHz	(L)2622.5+2627.5+(NR)2 640	N/A	(NR)2670+(L)2682.5+268 7.5

NB+NR

Configuration	Carrier	NR Carrier Bandwidth	Carrier Frequency Configuration (MHz)		
			Bottom	Middle	Top
NB-IoT+NR-MC- 1	1NB+1 NR	20.0MHz	-	(NR)2630+(NB)2689.8	-

Configuration	Carrier	NR Carrier Bandwidth	Carrier Frequency Configuration (MHz)		
			Bottom	Middle	Top
NB-IoT+NR-MC-2	1NB+2 NR	20.0MHz	-	(NR)2630+2650+(NB)2689.8	-
NB-IoT+NR-MC-3	1NB+5 NR	10.0MHz	-	(NR)2625+2635+2645+2655+2665+(NB)2689.8	-
NB-IoT+NR-MC-3	1NB+4 NR	15.0MHz	-	(NR)2627.5+2642.5+2657.5+2672.5+(NB)2689.8	-
NB-IoT+NR-MC-3	1NB+3 NR	20.0MHz	-	(NR)2630+2650+2670+(NB)2689.8	-
NB-IoT+NR-MC-1-BE	1NB+1 NR	20.0MHz	(NB)2620.2+(NR)2630.4	N/A	(NR)2679.6+(NB)2689.8
NB-IoT+NR-MC-4-BE	1NB+2 NR	20.0MHz	(NB)2620.2+(NR)2630.4+2650.4	N/A	(NR)2659.6+2679.6+(NB)2689.8

WCDMA+LTE+NR

Configuration	Carrier	Carrier Bandwidth	Carrier Frequency Configuration (MHz)		
			Bottom	Middle	Top
WCDMA+LTE+NR-MIMO-MC-1	1W+1L+1NR	3.0MHz+5.0 MHz	-	(NR)2622.5+(W)2684.6+(L)2688.5	-
		1.4MHz+20.0MHz	-	(NR)2630+(W)2686.2+(L)2689.3	-
		5.0MHz+20.0MHz	-	(NR)2630+(W)2682.6+(L)2687.5	-
WCDMA+LTE+NR-MIMO-MC-2	1W+2L+1NR	3.0MHz+5.0 MHz	-	(NR)2622.5+(W)2681.6+(L)2685.5+2688.5	-
		1.4MHz+20.0MHz	-	(NR)2630+(W)2684.8+(L)2687.9+2689.3	-
		5.0MHz+20.0MHz	-	(NR)2630+(W)2677.6+(L)2682.5+2687.5	-
WCDMA+LTE+NR-MIMO-MC-3	2W+2L+2NR	3.0MHz+5.0 MHz	-	(NR)2622.5+2627.5+(W)2676.6+2681.6+(L)2685.5+2688.5	-
		1.4MHz+20.0MHz	-	(NR)2630+2650+(W)2679.8+2684.8+(L)2687.9+2689.3	-
		5.0MHz+20.0MHz	-	(NR)2630+2650+(W)2672.6+2677.6+(L)2682.5+2687.5	-
WCDMA+LTE+NR-MIMO-MC-1-BE	1W+1L+1NR	5.0MHz+20.0MHz	(W)2622.4+(L)2627.5+(NR)2640	N/A	(NR)2670+(L)2682.5+(W)2687.6

Configuration	Carrier	Carrier Bandwidth	Carrier Frequency Configuration (MHz)		
			Bottom	Middle	Top
WCDMA+LTE+NR-MIMO-MC-2-BE	1W+2L+1NR	5.0MHz+20.0MHz	(W)2622.4+(L)2627.5+2632.5+(NR)2645	N/A	(NR)2665+(L)2677.5+2682.5+(W)2687.6

LTE+NB+NR

Configuration	Carrier	Carrier Bandwidth	Carrier Frequency Configuration (MHz)		
			Bottom	Middle	Top
LTE+NB-IoT+NR-MC-1	1L+1NB+1NR	3.0MHz+5.0MHz	-	(NR)2622.5+(L)2688.1+(NB)2689.8	-
		1.4MHz+20.0MHz	-	(NR)2630+(L)2688.9+(NB)2689.8	-
		5.0MHz+20.0MHz	-	(NR)2630+(L)2642.5+(NB)2689.8	-
LTE+NB-IoT+NR-MC-2	2L+1NB+1NR	3.0MHz+5.0MHz	-	(NR)2622.5+(L)2685.1+2688.1+(NB)2689.8	-
		1.4MHz+20.0MHz	-	(NR)2630+(L)2687.5+2688.9+(NB)2689.8	-
		5.0MHz+20.0MHz	-	(NR)2630+(L)2642.5+2647.5+(NB)2689.8	-
LTE+NB-IoT+NR-MC-3	3L+1NB+2NR	3.0MHz+5.0MHz	-	(NR)2622.5+2627.5+(L)2682.1+2685.1+2688.1+(NB)2689.8	-
		1.4MHz+20.0MHz	-	(NR)2630+2650+(L)2686.1+2687.5+2688.9+(NB)2689.8	-
		5.0MHz+20.0MHz	-	(NR)2630+2650+(L)2662.5+2667.5+(NB)2685.2+2689.8	-
LTE+NB-IoT+NR-MC-1-BE	1L+1NB+1NR	5.0MHz+20.0MHz	(NB)2620.2+(L)2622.9+(NR)2635.4	N/A	(NR)2674.6+(L)2687.1+(NB)2689.8
LTE+NB-IoT+NR-MC-2-BE	2L+1NB+1NR	3.0MHz+5.0MHz	(NB)2620.2+(L)2621.9+2624.9+(NR)2628.9	N/A	(NR)2681.1+(L)2685.1+2688.1+(NB)2689.8

N/A – Not Applicable

4. Reference Documents

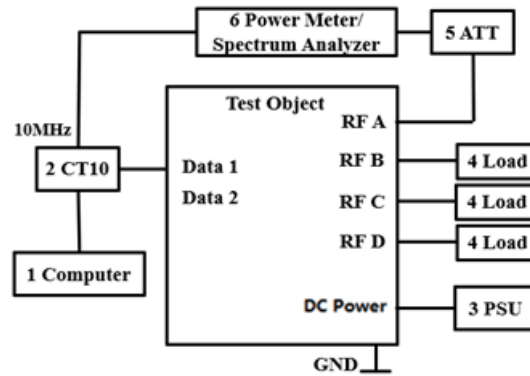
4.1. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part 27	MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES	10-1-19 Edition
FCC Part 2	FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS	10-1-19 Edition
RSS-GEN	General Requirements for Compliance of Radio Apparatus	Issue 5 Amendment 1
RSS-199	Broadband Radio Service (BRS) Equipment Operating in the Band 2500–2690 MHz	Issue 3
ANSI 63.26	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services	2015
TIA-102.CAAA-E	DIGITAL C4FMCQPSK TRANSCEIVER MEASUREMENT METHODS	2016
KDB 971168 D01	MEASUREMENT GUIDANCE FOR CERTIFICATION OF LICENSED DIGITAL TRANSMITTERS	v03r01
KDB 662911 D01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band	v02r01

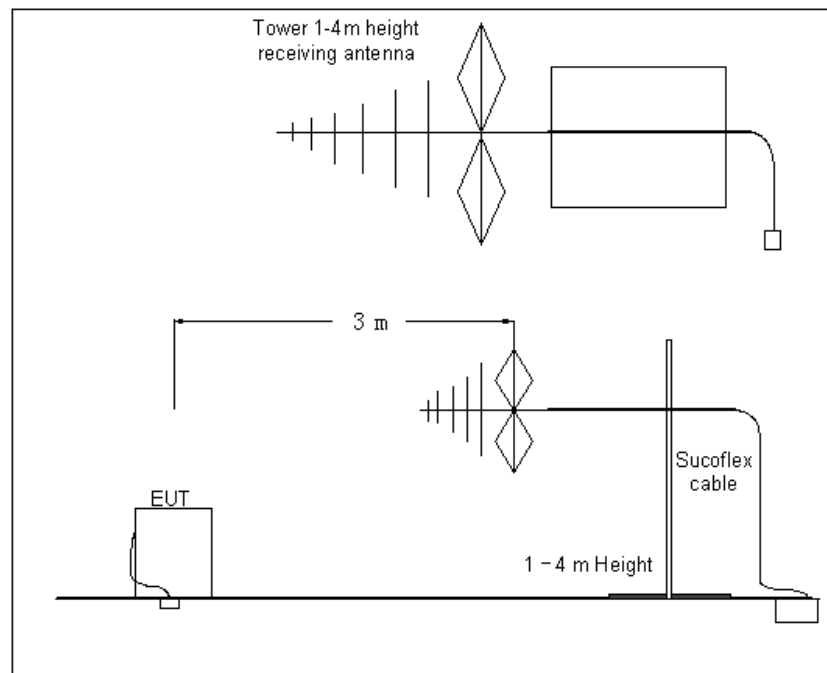
5. TEST SETUP

Test Setup, Conducted Measurement:



No.	Auxiliary Equipment	Model Type	Version
1	Test Computer	HP EliteBook 8540w	-
2	CT10	LPC 102 487/1	R1C
3	Power supply unit	-	-
4	Load	TF150	-
5	40dB Attenuator	Aeroflex / Weinschel	-

Test Setup, Radiated Measurement:



6. LABORATORY ENVIRONMENT

Control room / conducted chamber did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 80 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 2 MΩ
Ground system resistance	< 0.5 Ω

Semi-anechoic chamber(10 meters×6.7 meters×6.15 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	> 100 dB
Electrical insulation	> 2 MΩ
Ground system resistance	< 0.5 Ω
Normalised site attenuation (NSA)	< ± 3.5 dB, 3 m distance
Site voltage standing-wave ratio (S_{VSWR})	Between 0 and 6 dB, from 1GHz to 18GHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 3000 MHz

7. SUMMARY OF TEST RESULTS

Items	Test Name	Clause in FCC rules	Clause in ISED rules	Verdict
1	Maximum Output Power and Peak to Average Power Ratio - EIRP calculation	27.50(h), 2.1046	RSS-199 4.4	Pass
2	Occupied Bandwidth	27.53 2.1049	RSS-GEN 6.7	Pass
3	Spurious Emissions at Band Edge	27.53(m), 2.1051	RSS-199 4.5	Pass
4	Conducted Spurious Emission	27.53(m), 2.1051	RSS-199 4.5	Pass
5	Radiated Spurious Emission	27.53(m), 2.1051	RSS-199 4.5	Pass
6	Frequency Stability	27.54, 2.1055	RSS-199 4.3	Pass
7	Receiver Spurious Emission	-	-	N/A

N/A – Not Applicable

8. Test Equipment Utilized

NO.	Description	TYPE	series number	MANUFACTURE	CAL DUE DATE
1	AC Power Supply	PAS20-18	UH000694	Kikusui	2021-08-01
2	40dB Attenuator	66-40-33	CD4019	Aeroflex / Weinschel	-
3	40dB Attenuator	TSG150R-4-40N11	1511040001	Nanjing Jiexi Technologies	-
4	Spectrum Analyzer	N9030	MY57142378	Keysight	2021-02-25
5	Climate Chamber	KTHG-415TBS	7353K	QINGSHENG	2021-08-05
6	Antenna	3117	00139065	ETS	2021-09-22
7	Power Amplifier	MY39500449	83006A	Agilent	-
8	Antenna	VULB9163	9163-514	Schwarzbeck	2021-02-24
9	Power Amplifier	SCU18	102249	R&S	-
10	Test Receiver	ESU26	100376	R&S	2021-09-04
11	Test Receiver	FSV40	101047	R&S	2021-05-18
12	Power Amplifier	SCU40	1707/1708	R&S	-
13	Antenna	3116	2663	ETS	2021-08-05
14	Spectrum Analyzer	FSW	104038-dC	R&S	2021-07-01

9. MEASUREMENT UNCERTAINTY

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

Test Discipline	Measurement Uncertainty
Conducted Maximum Peak Output Power	0.5dB
Occupied Bandwidth	1.1Hz
Conducted Spurious Emissions	2.3dB
Band Edge	2.3dB
Radiated Spurious Emissions	5.4dB
Frequency Stability	$<\pm 1 \times 10^{-7}$

ANNEX A: MEASUREMENT RESULTS

A.1 Maximum Output Power and Peak to Average Power Ratio - EIRP calculation

A.1.1 Reference

FCC CFR 47 Part 2, Clause 2.1046

FCC CFR 47 Part 27, Clause 27.50(h)

RSS-199, Clause 4.4

A.1.2 Method of Measurements

During the process of testing, the EUT was configured to transmit on maximum power and proper modulation. The transmitter power shall be measured in terms of a root-mean-square (RMS) average value. In case of the EUT was configured to MIMO mode, since the EUT transmits on all antennas simultaneously in the same frequency range, using the Measure-and-Sum approach, the output power at all antennas were tested, and the total output power were then summed mathematically in linear power units according to FCC KDB 662911 D01.

A peak to average ratio measurement is performed at the conducted ports of the EUT for single carrier for single RAT mode. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) was used and 0.1% probability value recorded.

A.1.3 Limit

Output Power:

(EIRP) 1640 W or 62.15 dBm for emission bandwidth $\leq$ 1MHz

1640 W/MHz or 62.15 dBm/MHz for emission bandwidth > 1MHz

33 dBW + 10log(X/Y) dBW, where X is the actual channel width in MHz and Y is either 6 MHz if prior to transition or the station is in the MBS following transition or 5.5 MHz if the station is in the LBS and UBS following transition

Peak to Average Ratio: 13 dB

A.1.4 Measurement result

Configuration WCDMA-1C

Maximum Output Power 37.0dBm per port

Antenna	Modulation	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	QPSK	37.24	31.76	7.37	37.31	31.52	7.30	37.37	31.83	7.35
B		37.09	30.75	7.36	37.15	30.85	7.30	37.31	31.57	7.34
C		37.16	31.76	7.37	37.25	31.70	7.31	37.49	31.96	7.39
D		37.21	31.82	7.35	37.28	31.78	7.32	37.35	31.85	7.36
Total		43.20	37.57	-	43.27	37.50	-	43.40	37.83	-

Antenna	Modulation	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
D	16QAM	37.11	31.82	7.34	37.34	31.96	7.33	37.23	31.95	7.32

Antenna	Modulation	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
D	64QAM	37.17	31.82	7.35	37.51	31.97	7.26	37.26	31.97	7.33

Configuration WCDMA-2C

Maximum Output Power 37.0dBm per port

Antenna	Modulation	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	QPSK	-	-	-	37.31	28.88	-	-	-	-
B		-	-	-	37.24	27.19	-	-	-	-
C		-	-	-	37.40	29.01	-	-	-	-
D		-	-	-	37.46	29.16	-	-	-	-
Total		-	-	-	43.37	34.65	-	-	-	-

Configuration WCDMA-6C

Maximum Output Power 37.0dBm per port

Antenna	Modulation	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	QPSK	-	-	-	37.32	24.04	-	-	-	-
B		-	-	-	37.26	23.87	-	-	-	-
C		-	-	-	37.53	24.21	-	-	-	-
D		-	-	-	37.52	24.19	-	-	-	-
Total		-	-	-	43.43	30.10	-	-	-	-

Configuration LTE-MIMO-1C

Maximum Output Power 34.0dBm per port

Antenna	Modulation/ Carrier	Output Power / Peak to Average Ratio (PAR)								
	Bandwidth (MHz)	Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	QPSK/1.4	34.21	33.29	8.97	34.37	33.14	8.28	34.32	33.29	8.92
B		34.21	32.42	8.29	34.23	33.03	8.34	34.22	33.10	8.28
C		34.04	33.12	8.96	34.31	33.20	8.93	34.25	33.14	8.94
D		34.37	33.53	8.61	34.51	33.38	8.25	34.27	33.16	8.58
Total		40.23	39.13	-	40.38	39.21	-	40.29	39.19	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	16QAM/1.4	-	-	-	34.33	33.12	8.29	-	-	-
B		-	-	-	34.19	33.03	8.33	-	-	-
C		-	-	-	34.20	33.27	8.86	-	-	-
D		-	-	-	34.43	33.56	7.52	-	-	-
Total		-	-	-	40.31	39.27	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	64QAM/1.4	-	-	-	34.32	33.09	8.27	-	-	-
B		-	-	-	34.13	33.18	8.28	-	-	-
C		-	-	-	34.17	33.23	8.54	-	-	-
D		-	-	-	34.57	33.65	8.30	-	-	-
Total		-	-	-	40.32	39.31	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	256QAM/1. 4	-	-	-	34.26	31.19	8.31	-	-	-
B		-	-	-	34.16	33.12	8.31	-	-	-
C		-	-	-	34.40	33.22	8.27	-	-	-
D		-	-	-	34.44	33.40	8.34	-	-	-
Total		-	-	-	40.34	38.84	-	-	-	-

Maximum Output Power 34.0dBm per port

Antenna	Modulation/ Carrier	Output Power / Peak to Average Ratio (PAR)								
	Bandwidth (MHz)	Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	QPSK/3.0	34.32	30.29	8.70	34.44	30.25	8.69	34.46	30.33	8.73
B		34.33	30.44	8.69	34.25	30.15	8.73	34.30	30.27	8.75
C		34.19	30.19	8.70	34.37	30.26	8.69	34.42	30.36	8.78
D		34.42	30.51	8.38	34.72	30.62	8.30	34.52	30.57	8.30
Total		40.34	36.38	-	40.47	36.34	-	40.45	36.40	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	16QAM/3.0	-	-	-	34.30	30.37	8.77	-	-	-
B		-	-	-	34.23	30.14	8.78	-	-	-
C		-	-	-	34.72	30.71	8.76	-	-	-
D		-	-	-	34.24	30.43	8.48	-	-	-
Total		-	-	-	40.40	36.44	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	64QAM/3.0	-	-	-	34.29	30.22	8.37	-	-	-
B		-	-	-	34.24	30.13	8.37	-	-	-
C		-	-	-	34.35	30.21	8.37	-	-	-
D		-	-	-	34.45	30.69	8.42	-	-	-
Total		-	-	-	40.35	36.34	-	-	-	-

Antenna	Modulation/ Carrier	Output Power / Peak to Average Ratio (PAR)								
	Bandwidth (MHz)	Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	256QAM/3. 0	-	-	-	34.31	30.25	8.07	-	-	-
B		-	-	-	34.17	30.12	8.31	-	-	-
C		-	-	-	34.14	30.22	8.08	-	-	-
D		-	-	-	34.71	30.64	8.32	-	-	-
Total		-	-	-	40.36	36.33	-	-	-	-

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	QPSK/5.0	37.26	31.29	7.42	37.40	31.15	8.16	37.40	31.24	7.79
B		37.15	31.17	7.43	37.37	31.13	8.15	37.36	31.22	7.72
C		37.10	31.16	7.44	37.37	31.14	8.16	37.43	31.31	7.66
D		37.31	31.36	7.37	37.65	31.63	8.17	37.58	31.44	7.65
Total		43.23	37.27	-	43.47	37.29	-	43.46	37.32	-

Antenna	Modulation/ Carrier	Output Power / Peak to Average Ratio (PAR)								
	Bandwidth (MHz)	Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	16QAM/5.0	-	-	-	37.40	31.53	8.14	-	-	-
B		-	-	-	37.31	31.12	8.14	-	-	-
C		-	-	-	37.46	31.81	8.15	-	-	-
D		-	-	-	37.64	32.15	8.17	-	-	-
Total		-	-	-	43.47	37.69	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	64QAM/5.0	-	-	-	37.30	31.17	8.07	-	-	-
B		-	-	-	37.22	31.10	8.06	-	-	-
C		-	-	-	37.29	31.16	8.07	-	-	-
D		-	-	-	37.48	31.21	8.02	-	-	-
Total		-	-	-	43.34	37.18	-	-	-	-

Antenna	Modulation/ Carrier	Output Power / Peak to Average Ratio (PAR)								
	Bandwidth (MHz)	Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	256QAM/5. 0	-	-	-	37.37	31.19	8.09	-	-	-
B		-	-	-	37.30	31.13	8.10	-	-	-
C		-	-	-	37.29	31.11	8.09	-	-	-
D		-	-	-	37.43	31.29	8.09	-	-	-
Total		-	-	-	43.37	37.20	-	-	-	-

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier	Output Power / Peak to Average Ratio (PAR)								
	Bandwidth (MHz)	Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	QPSK/10.0	37.53	28.63	7.53	37.44	28.17	8.07	37.41	28.26	7.91
B		37.53	28.65	7.47	37.37	28.13	8.05	37.39	28.29	7.84
C		37.49	28.59	7.48	37.36	28.10	8.05	37.45	28.34	7.84
D		37.76	28.94	7.88	37.66	28.42	8.09	37.58	28.56	8.06
Total		43.60	34.73	-	43.48	34.23	-	43.48	34.38	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	16QAM/ 10.0	-	-	-	37.26	29.21	8.17	-	-	-
B		-	-	-	37.20	29.14	8.16	-	-	-
C		-	-	-	37.17	29.11	8.16	-	-	-
D		-	-	-	37.22	29.36	8.13	-	-	-
Total		-	-	-	43.23	35.23	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	64QAM/ 10.0	-	-	-	37.37	28.25	8.18	-	-	-
B		-	-	-	37.30	28.21	8.17	-	-	-
C		-	-	-	37.29	28.16	8.19	-	-	-
D		-	-	-	37.54	28.48	8.20	-	-	-
Total		-	-	-	43.40	34.30	-	-	-	-

Antenna	Modulation/ Carrier	Output Power / Peak to Average Ratio (PAR)								
	Bandwidth (MHz)	Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	256QAM/10 .0	-	-	-	37.28	28.26	8.15	-	-	-
B		-	-	-	37.22	28.21	8.15	-	-	-
C		-	-	-	37.18	28.17	8.13	-	-	-
D		-	-	-	37.58	28.44	8.12	-	-	-
Total		-	-	-	43.34	34.29	-	-	-	-

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier	Output Power / Peak to Average Ratio (PAR)								
	Bandwidth (MHz)	Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	QPSK/15.0	37.49	26.84	7.78	37.40	26.41	8.10	37.39	26.63	7.96
B		37.49	26.83	7.70	37.31	26.33	8.10	37.35	26.61	7.90
C		37.56	26.97	7.67	37.36	26.37	8.10	37.45	26.69	7.92
D		37.78	27.18	7.67	37.56	26.66	8.17	37.60	26.83	8.12
Total		43.60	32.98	-	43.43	32.47	-	43.47	32.71	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	16QAM/ 15.0	-	-	-	37.23	27.68	8.02	-	-	-
B		-	-	-	37.14	27.60	8.01	-	-	-
C		-	-	-	37.18	27.64	8.01	-	-	-
D		-	-	-	37.32	27.65	8.02	-	-	-
Total		-	-	-	43.24	33.66	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	64QAM/ 15.0	-	-	-	37.40	26.45	8.10	-	-	-
B		-	-	-	37.38	26.36	8.09	-	-	-
C		-	-	-	37.42	26.41	8.10	-	-	-
D		-	-	-	37.51	26.68	8.12	-	-	-
Total		-	-	-	43.45	32.50	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	256QAM/ 15.0	-	-	-	37.30	26.51	8.09	-	-	-
B		-	-	-	37.21	26.43	8.08	-	-	-
C		-	-	-	37.25	26.47	8.08	-	-	-
D		-	-	-	37.50	26.69	8.17	-	-	-
Total		-	-	-	43.34	32.55	-	-	-	-

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	QPSK/ 20.0	37.47	25.57	7.83	37.40	25.18	8.13	37.39	25.35	8.01
B		37.45	25.51	7.74	37.31	25.12	8.11	37.37	25.36	7.95
C		37.55	25.67	7.79	37.37	25.16	8.12	37.45	25.41	7.96
D		37.52	25.63	8.21	37.62	25.43	8.23	37.61	25.61	8.15
Total		43.52	31.62	-	43.45	31.24	-	43.48	31.45	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	16QAM/ 20.0	-	-	-	37.42	26.07	8.09	-	-	-
B		-	-	-	37.31	25.64	8.08	-	-	-
C		-	-	-	37.43	26.24	8.09	-	-	-
D		-	-	-	37.44	26.25	8.14	-	-	-
Total		-	-	-	43.42	32.08	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	64QAM/ 20.0	-	-	-	37.39	25.23	8.14	-	-	-
B		-	-	-	37.30	25.17	8.13	-	-	-
C		-	-	-	37.40	25.25	8.11	-	-	-
D		-	-	-	37.60	25.47	8.17	-	-	-
Total		-	-	-	43.44	31.30	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	256QAM/ 20.0	-	-	-	37.39	25.22	8.15	-	-	-
B		-	-	-	37.29	25.17	8.12	-	-	-
C		-	-	-	37.49	25.23	8.14	-	-	-
D		-	-	-	37.58	25.48	8.23	-	-	-
Total		-	-	-	43.46	31.30	-	-	-	-

Configuration LTE-MIMO-2C

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	QPSK/1.4	37.31	33.31	-	37.46	33.37	-	37.45	33.33	-
B		37.42	33.61	-	37.42	33.31	-	37.40	33.32	-
C		37.21	33.29	-	37.45	33.34	-	37.25	33.30	-
D		37.25	33.62	-	37.63	33.63	-	37.61	33.59	-
Total		43.32	39.48	-	-	-	-	43.45	39.41	-

Antenna	Modulation/ Carrier	Output Power / Peak to Average Ratio (PAR)								
	Bandwidth (MHz)	Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	16QAM/1.4	-	-	-	37.42	33.49	-	-	-	-
B		-	-	-	37.40	33.35	-	-	-	-
C		-	-	-	37.31	33.42	-	-	-	-
D		-	-	-	37.47	33.71	-	-	-	-
Total		-	-	-	43.42	39.52	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	64QAM/1.4	-	-	-	37.35	33.32	-	-	-	-
B		-	-	-	37.27	33.21	-	-	-	-
C		-	-	-	37.45	33.43	-	-	-	-
D		-	-	-	37.46	33.51	-	-	-	-
Total		-	-	-	43.40	39.39	-	-	-	-

Antenna	Modulation/ Carrier	Output Power / Peak to Average Ratio (PAR)								
	Bandwidth (MHz)	Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	256QAM/1. 4	-	-	-	37.33	33.32	-	-	-	-
B		-	-	-	37.24	33.23	-	-	-	-
C		-	-	-	37.44	33.24	-	-	-	-
D		-	-	-	37.49	33.56	-	-	-	-
Total		-	-	-	43.40	39.36	-	-	-	-

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	QPSK/3.0	37.41	30.37	-	37.41	30.32	-	37.39	30.26	-
B		37.56	30.63	-	37.32	30.21	-	37.35	30.26	-
C		37.39	30.31	-	37.37	30.32	-	37.54	30.31	-
D		37.54	30.65	-	37.56	30.67	-	37.55	30.64	-
Total		43.50	36.51	-	43.44	36.40	-	43.48	36.39	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	16QAM/3.0	-	-	-	37.35	30.94	-	-	-	-
B		-	-	-	37.31	30.68	-	-	-	-
C		-	-	-	37.23	30.88	-	-	-	-
D		-	-	-	37.44	31.15	-	-	-	-
Total		-	-	-	43.35	36.94	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	64QAM/3.0	-	-	-	37.26	30.30	-	-	-	-
B		-	-	-	37.17	30.19	-	-	-	-
C		-	-	-	37.36	30.26	-	-	-	-
D		-	-	-	37.42	30.66	-	-	-	-
Total		-	-	-	43.32	36.38	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	256QAM/3. 0	-	-	-	37.34	30.33	-	-	-	-
B		-	-	-	37.27	30.16	-	-	-	-
C		-	-	-	37.33	30.27	-	-	-	-
D		-	-	-	37.45	30.63	-	-	-	-
Total		-	-	-	43.37	36.37	-	-	-	-

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ 5.0	-	-	-	37.32	28.19	-	-	-	-
B		-	-	-	37.15	28.05	-	-	-	-
C		-	-	-	37.27	28.22	-	-	-	-
D		-	-	-	37.32	28.31	-	-	-	-
Total		-	-	-	43.29	34.21	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	16QAM/ 5.0	-	-	-	37.31	28.86	-	-	-	-
B		-	-	-	37.10	28.34	-	-	-	-
C		-	-	-	37.17	28.67	-	-	-	-
D		-	-	-	37.15	28.65	-	-	-	-
Total		-	-	-	43.20	34.65	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER	POWER	PAR	POWER	POWER	PAR	POWER	POWER	PAR
		(dBm)	(dBm/MHz)	(db)	(dBm)	(dBm/MHz)	(db)	(dBm)	(dBm/MHz)	(db)
A	64QAM/ 5.0	-	-	-	37.34	28.19	-	-	-	-
B		-	-	-	37.12	28.06	-	-	-	-
C		-	-	-	37.18	28.24	-	-	-	-
D		-	-	-	37.25	28.33	-	-	-	-
Total		-	-	-	43.24	34.23	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	256QAM /5.0	-	-	-	37.21	28.23	-	-	-	-
B		-	-	-	37.14	28.11	-	-	-	-
C		-	-	-	37.22	28.22	-	-	-	-
D		-	-	-	37.26	28.31	-	-	-	-
Total		-	-	-	43.23	34.24	-	-	-	-

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ 10.0	-	-	-	37.37	25.58	-	-	-	-
B		-	-	-	37.35	25.62	-	-	-	-
C		-	-	-	37.56	25.60	-	-	-	-
D		-	-	-	37.63	25.86	-	-	-	-
Total		-	-	-	43.50	31.69	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER	POWER	PAR	POWER	POWER	PAR	POWER	POWER	PAR
		(dBm)	(dBm/MHz)	(db)	(dBm)	(dBm/MHz)	(db)	(dBm)	(dBm/MHz)	(db)
A	16QAM/ 10.0	-	-	-	37.42	26.54	-	-	-	-
B		-	-	-	37.47	26.28	-	-	-	-
C		-	-	-	37.54	26.59	-	-	-	-
D		-	-	-	37.57	26.63	-	-	-	-
Total		-	-	-	43.52	32.53	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER	POWER	PAR	POWER	POWER	PAR	POWER	POWER	PAR
		(dBm)	(dBm/MHz)	(db)	(dBm)	(dBm/MHz)	(db)	(dBm)	(dBm/MHz)	(db)
A	64QAM/ 10.0	-	-	-	37.42	25.66	-	-	-	-
B		-	-	-	37.44	25.73	-	-	-	-
C		-	-	-	37.45	25.69	-	-	-	-
D		-	-	-	37.60	25.87	-	-	-	-
Total		-	-	-	43.50	31.76	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	256QAM /10.0	-	-	-	37.27	25.67	-	-	-	-
B		-	-	-	37.28	25.72	-	-	-	-
C		-	-	-	37.33	25.68	-	-	-	-
D		-	-	-	37.58	25.87	-	-	-	-
Total		-	-	-	43.39	31.76	-	-	-	-

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ 15.0	-	-	-	37.45	23.82	-	-	-	-
B		-	-	-	37.45	23.82	-	-	-	-
C		-	-	-	37.56	23.94	-	-	-	-
D		-	-	-	37.62	24.12	-	-	-	-
Total		-	-	-	43.54	29.95	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER	POWER	PAR	POWER	POWER	PAR	POWER	POWER	PAR
		(dBm)	(dBm/MHz)	(db)	(dBm)	(dBm/MHz)	(db)	(dBm)	(dBm/MHz)	(db)
A	16QAM/ 15.0	-	-	-	37.22	24.73	-	-	-	-
B		-	-	-	37.21	24.61	-	-	-	-
C		-	-	-	37.26	24.81	-	-	-	-
D		-	-	-	37.29	24.81	-	-	-	-
Total		-	-	-	43.27	30.76	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
	A	64QAM/ 15.0	-	-	-	37.46	23.85	-	-	-
B	-		-	-	37.44	23.86	-	-	-	-
C	-		-	-	37.47	23.95	-	-	-	-
D	-		-	-	37.60	24.15	-	-	-	-
Total		-	-	-	43.51	29.97	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	256QAM /15.0	-	-	-	37.43	23.89	-	-	-	-
B		-	-	-	37.43	23.91	-	-	-	-
C		-	-	-	37.41	23.97	-	-	-	-
D		-	-	-	37.59	24.12	-	-	-	-
Total		-	-	-	43.49	29.99	-	-	-	-

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ 20.0	-	-	-	37.37	22.52	-	-	-	-
B		-	-	-	37.39	22.48	-	-	-	-
C		-	-	-	37.57	22.66	-	-	-	-
D		-	-	-	37.61	22.85	-	-	-	-
Total		-	-	-	43.51	28.65	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	16QAM/ 20.0	-	-	-	37.45	23.51	-	-	-	-
B		-	-	-	37.46	22.83	-	-	-	-
C		-	-	-	37.53	23.66	-	-	-	-
D		-	-	-	37.41	23.60	-	-	-	-
Total		-	-	-	43.48	29.43	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	64QAM/ 20.0	-	-	-	37.38	22.58	-	-	-	-
B		-	-	-	37.39	22.54	-	-	-	-
C		-	-	-	37.52	22.71	-	-	-	-
D		-	-	-	37.58	22.88	-	-	-	-
Total		-	-	-	43.49	28.70	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	256QAM /20.0	-	-	-	37.44	22.58	-	-	-	-
B		-	-	-	37.43	22.52	-	-	-	-
C		-	-	-	37.45	22.69	-	-	-	-
D		-	-	-	37.57	22.86	-	-	-	-
Total		-	-	-	43.49	28.69	-	-	-	-

Configuration LTE-MIMO-6C

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	QPSK/1.4	37.22	28.68	-	37.42	28.78	-	37.42	28.73	-
B		37.50	29.11	-	37.36	28.69	-	37.40	28.77	-
C		37.29	28.81	-	37.30	28.72	-	37.32	28.74	-
D		37.51	29.14	-	37.53	29.13	-	37.46	29.01	-
Total		43.40	34.96	-	43.42	34.85	-	43.42	34.83	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	16QAM/1.4	-	-	-	37.40	28.91	-	-	-	-
B		-	-	-	37.33	28.81	-	-	-	-
C		-	-	-	37.31	28.81	-	-	-	-
D		-	-	-	37.30	28.86	-	-	-	-
Total		-	-	-	43.36	34.87	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	64QAM/1.4	-	-	-	37.30	28.80	-	-	-	-
B		-	-	-	37.23	28.66	-	-	-	-
C		-	-	-	37.24	28.70	-	-	-	-
D		-	-	-	37.43	29.11	-	-	-	-
Total		-	-	-	43.32	34.84	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	256QAM/1. 4	-	-	-	37.29	28.74	-	-	-	-
B		-	-	-	37.23	28.74	-	-	-	-
C		-	-	-	37.26	28.65	-	-	-	-
D		-	-	-	37.34	29.13	-	-	-	-
Total		-	-	-	43.30	34.84	-	-	-	-

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	QPSK/3.0	37.45	25.66	-	37.33	25.55	-	37.34	25.53	-
B		37.51	26.00	-	37.26	25.44	-	37.30	25.54	-
C		37.46	25.72	-	37.35	25.49	-	37.47	25.56	-
D		37.56	25.97	-	37.51	25.85	-	37.49	25.81	-
Total		43.52	31.86	-	43.38	31.61	-	43.42	31.63	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	16QAM/3.0	-	-	-	37.13	26.21	-	-	-	-
B		-	-	-	37.07	26.13	-	-	-	-
C		-	-	-	37.30	26.13	-	-	-	-
D		-	-	-	37.37	26.45	-	-	-	-
Total		-	-	-	43.24	32.25	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	64QAM/3.0	-	-	-	37.38	25.55	-	-	-	-
B		-	-	-	37.23	25.48	-	-	-	-
C		-	-	-	37.39	25.47	-	-	-	-
D		-	-	-	37.46	25.77	-	-	-	-
Total		-	-	-	43.39	31.59	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	256QAM/3. 0	-	-	-	37.33	25.56	-	-	-	-
B		-	-	-	37.26	25.45	-	-	-	-
C		-	-	-	37.19	25.49	-	-	-	-
D		-	-	-	37.44	25.87	-	-	-	-
Total		-	-	-	43.33	31.62	-	-	-	-

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ 5.0	-	-	-	37.33	23.45	-	-	-	-
B		-	-	-	37.22	23.41	-	-	-	-
C		-	-	-	37.30	23.46	-	-	-	-
D		-	-	-	37.41	23.62	-	-	-	-
Total		-	-	-	43.34	29.51	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER	POWER	PAR	POWER	POWER	PAR	POWER	POWER	PAR
		(dBm)	(dBm/MHz)	(db)	(dBm)	(dBm/MHz)	(db)	(dBm)	(dBm/MHz)	(db)
A	16QAM/ 5.0	-	-	-	37.17	24.16	-	-	-	-
B		-	-	-	37.07	24.11	-	-	-	-
C		-	-	-	37.15	24.12	-	-	-	-
D		-	-	-	37.20	24.06	-	-	-	-
Total		-	-	-	43.17	30.13	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER	POWER	PAR	POWER	POWER	PAR	POWER	POWER	PAR
		(dBm)	(dBm/MHz)	(db)	(dBm)	(dBm/MHz)	(db)	(dBm)	(dBm/MHz)	(db)
A	64QAM/ 5.0	-	-	-	37.38	23.54	-	-	-	-
B		-	-	-	37.24	23.49	-	-	-	-
C		-	-	-	37.27	23.48	-	-	-	-
D		-	-	-	37.38	23.62	-	-	-	-
Total		-	-	-	43.34	29.55	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	256QAM /5.0	-	-	-	37.32	23.50	-	-	-	-
B		-	-	-	37.21	23.46	-	-	-	-
C		-	-	-	37.33	23.47	-	-	-	-
D		-	-	-	37.39	23.67	-	-	-	-
Total		-	-	-	43.33	29.55	-	-	-	-

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ 10.0	-	-	-	37.37	20.80	-	-	-	-
B		-	-	-	37.34	20.73	-	-	-	-
C		-	-	-	37.39	20.81	-	-	-	-
D		-	-	-	37.55	21.00	-	-	-	-
Total		-	-	-	43.43	26.86	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	16QAM/ 10.0	-	-	-	37.42	21.75	-	-	-	-
B		-	-	-	37.26	21.29	-	-	-	-
C		-	-	-	37.45	21.77	-	-	-	-
D		-	-	-	37.35	21.57	-	-	-	-
Total		-	-	-	43.39	27.62	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	64QAM/ 10.0	-	-	-	37.37	20.81	-	-	-	-
B		-	-	-	37.31	20.74	-	-	-	-
C		-	-	-	37.46	20.93	-	-	-	-
D		-	-	-	37.52	21.04	-	-	-	-
Total		-	-	-	43.44	26.90	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	256QAM /10.0	-	-	-	37.32	20.84	-	-	-	-
B		-	-	-	37.33	20.73	-	-	-	-
C		-	-	-	37.36	20.87	-	-	-	-
D		-	-	-	37.46	20.98	-	-	-	-
Total		-	-	-	43.39	26.88	-	-	-	-

Configuration LTE-MIMO-4C

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ 15.0	-	-	-	37.40	20.80	-	-	-	-
B		-	-	-	37.38	20.79	-	-	-	-
C		-	-	-	37.44	20.89	-	-	-	-
D		-	-	-	37.57	21.08	-	-	-	-
Total		-	-	-	43.47	26.91	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	16QAM/ 15.0	-	-	-	37.39	21.69	-	-	-	-
B		-	-	-	37.28	21.52	-	-	-	-
C		-	-	-	37.44	21.77	-	-	-	-
D		-	-	-	37.32	21.75	-	-	-	-
Total		-	-	-	43.38	27.70	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER	POWER	PAR	POWER	POWER	PAR	POWER	POWER	PAR
		(dBm)	(dBm/MHz)	(db)	(dBm)	(dBm/MHz)	(db)	(dBm)	(dBm/MHz)	(db)
A	64QAM/ 15.0	-	-	-	37.40	20.83	-	-	-	-
B		-	-	-	37.33	20.82	-	-	-	-
C		-	-	-	37.44	20.92	-	-	-	-
D		-	-	-	37.53	21.11	-	-	-	-
Total		-	-	-	43.45	26.94	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	256QAM /15.0	-	-	-	37.35	20.87	-	-	-	-
B		-	-	-	37.36	20.78	-	-	-	-
C		-	-	-	37.40	20.95	-	-	-	-
D		-	-	-	37.52	21.08	-	-	-	-
Total		-	-	-	43.43	26.94	-	-	-	-

Configuration LTE-MIMO-3C

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ 20.0	-	-	-	37.41	20.71	-	-	-	-
B		-	-	-	37.34	20.73	-	-	-	-
C		-	-	-	37.42	20.79	-	-	-	-
D		-	-	-	37.53	20.99	-	-	-	-
Total		-	-	-	43.45	26.83	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	16QAM/ 20.0	-	-	-	37.40	21.68	-	-	-	-
B		-	-	-	37.19	21.44	-	-	-	-
C		-	-	-	37.47	21.86	-	-	-	-
D		-	-	-	37.32	21.74	-	-	-	-
Total		-	-	-	43.37	27.70	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER	POWER	PAR	POWER	POWER	PAR	POWER	POWER	PAR
		(dBm)	(dBm/MHz)	(db)	(dBm)	(dBm/MHz)	(db)	(dBm)	(dBm/MHz)	(db)
A	64QAM/ 20.0	-	-	-	37.34	20.75	-	-	-	-
B		-	-	-	37.31	20.76	-	-	-	-
C		-	-	-	37.44	20.91	-	-	-	-
D		-	-	-	37.49	21.02	-	-	-	-
Total		-	-	-	43.42	26.88	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	256QAM /20.0	-	-	-	37.37	20.75	-	-	-	-
B		-	-	-	37.32	20.75	-	-	-	-
C		-	-	-	37.43	20.89	-	-	-	-
D		-	-	-	37.50	21.01	-	-	-	-
Total		-	-	-	43.43	26.87	-	-	-	-

Configuration NB-IoT-InBand-1C

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/5.0	36.69	30.82	7.92	36.92	31.43	8.43	36.92	31.56	8.25
B		36.55	30.60	7.93	36.84	31.36	8.42	36.86	31.55	8.20
C		36.61	30.60	7.92	36.94	31.40	8.45	36.97	31.72	8.17
D		36.85	30.93	7.93	37.07	31.59	8.43	37.17	31.82	8.15
Total		42.70	36.76	-	42.96	37.47	-	43.00	37.68	-

Configuration NB-IoT-GuardBand-1C

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER	POWER	PAR	POWER	POWER	PAR	POWER	POWER	PAR
		(dBm)	(dBm/MHz)	(db)	(dBm)	(dBm/MHz)	(db)	(dBm)	(dBm/MHz)	(db)
A	QPSK/10.0	37.17	28.11	7.72	37.13	28.45	8.24	37.11	28.62	8.12
B		37.22	28.18	7.64	37.13	28.45	8.26	37.13	26.64	8.08
C		37.19	28.12	7.66	37.12	28.39	8.25	37.22	28.71	8.07
D		37.50	28.41	7.65	37.41	28.68	8.28	37.48	28.91	8.04
Total		43.29	34.23	-	43.22	34.51	-	43.26	34.33	-

Configuration NB-IoT-StandAlone-1C

Maximum Output Power 33.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (KHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
D	QPSK/ 250.0	32.68	33.49	5.06	32.76	33.52	5.06	32.75	33.14	5.08

Configuration WCDMA+LTE-MIMO-MC-1 (1WCDMA +1LTE)

Maximum Output Power 37.0dBm per port

Antenna	WCDMA Mod./ LTE Mod. Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ QPSK 3.0	-	-	-	37.18	30.03	-	-	-	-
B	QPSK/ QPSK 3.0	-	-	-	37.14	30.16	-	-	-	-
C	QPSK/ QPSK 3.0	-	-	-	37.22	30.24	-	-	-	-
D	QPSK/ QPSK 3.0	-	-	-	37.33	30.31	-	-	-	-
Total		-	-	-	43.24	36.21	-	-	-	-

Antenna	WCDMA Mod./ LTE Mod. Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ QPSK 10	-	-	-	37.30	28.76	-	-	-	-
B	QPSK/ QPSK 10	-	-	-	37.50	28.97	-	-	-	-
C	QPSK/ QPSK 10	-	-	-	37.49	28.91	-	-	-	-
D	QPSK/ QPSK 10	-	-	-	37.54	29.03	-	-	-	-
Total		-	-	-	43.48	34.94	-	-	-	-

Configuration WCDMA+LTE-MIMO-MC-3 (3WCDMA +3LTE)

Maximum Output Power 37.0dBm per port

Antenna	WCDMA Mod./ LTE Mod. Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ QPSK 3.0	-	-	-	37.53	25.50	-	-	-	-
B	QPSK/ QPSK 3.0	-	-	-	37.47	25.63	-	-	-	-
C	QPSK/ QPSK 3.0	-	-	-	37.29	25.53	-	-	-	-
D	QPSK/ QPSK 3.0	-	-	-	37.42	25.82	-	-	-	-
Total		-	-	-	43.45	31.64	-	-	-	-

Antenna	WCDMA Mod./ LTE Mod. Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ QPSK 10	-	-	-	37.45	24.13	-	-	-	-
B	QPSK/ QPSK 10	-	-	-	37.53	24.47	-	-	-	-
C	QPSK/ QPSK 10	-	-	-	37.52	24.23	-	-	-	-
D	QPSK/ QPSK 10	-	-	-	37.42	24.36	-	-	-	-
Total		-	-	-	43.50	30.32	-	-	-	-

Configuration WCDMA+LTE-MIMO-MC-3 (2WCDMA +3LTE)

Maximum Output Power 37.0dBm per port

Antenna	WCDMA Mod./ LTE Mod. Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ QPSK 20.0	-	-	-	37.35	24.88	-	-	-	-
B	QPSK/ QPSK 20.0	-	-	-	37.52	25.22	-	-	-	-
C	QPSK/ QPSK 20.0	-	-	-	37.41	25.00	-	-	-	-
D	QPSK/ QPSK 20.0	-	-	-	37.45	25.12	-	-	-	-
Total		-	-	-	43.45	31.08	-	-	-	-

Configuration WCDMA+NB-IoT-MC-1 (1WCDMA+1NB)

Maximum Output Power 37.0dBm per port

Antenna	WCDMA Mod./NB Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK /QPSK	-	-	-	36.99	34.14	-	-	-	-
B	QPSK /QPSK	-	-	-	36.94	34.09	-	-	-	-
C	QPSK /QPSK	-	-	-	36.86	33.93	-	-	-	-
D	QPSK /QPSK	-	-	-	36.93	34.20	-	-	-	-
Total		-	-	-	42.95	40.11	-	-	-	-

Configuration LTE+NB-IoT-MIMO-MC-1 (1LTE +1NB)

Maximum Output Power 37.0dBm per port

Antenna	WCDMA Mod./NB Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK 3.0 /QPSK	37.03	34.11	-	37.05	33.99	-	37.11	34.11	-
B	QPSK 3.0 /QPSK	37.26	34.22	-	37.15	34.26	-	37.17	34.02	-
C	QPSK 3.0 /QPSK	36.95	33.99	-	37.31	33.90	-	37.09	33.86	-
D	QPSK 3.0 /QPSK	37.05	34.30	-	37.28	34.15	-	37.26	34.15	-
Total		43.09	40.18	-	43.22	40.10	-	43.18	40.06	-

Antenna	WCDMA Mod./NB Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK 10.0 /QPSK	-	-	-	37.17	34.19	-	-	-	-
B	QPSK 10.0 /QPSK	-	-	-	37.02	34.09	-	-	-	-
C	QPSK 10.0 /QPSK	-	-	-	37.09	33.98	-	-	-	-
D	QPSK 10.0 /QPSK	-	-	-	37.15	34.19	-	-	-	-
Total		-	-	-	43.13	40.13	-	-	-	-

Configuration LTE+NB-IoT-MIMO-MC-3 (5LTE +1NB)

Maximum Output Power 37.0dBm per port

Antenna	WCDMA Mod./NB Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK 3.0 /QPSK	37.24	29.16	-	37.22	29.13	-	37.21	29.25	-
B	QPSK 3.0 /QPSK	37.15	29.27	-	37.39	29.51	-	37.33	29.32	-
C	QPSK 3.0 /QPSK	37.18	29.20	-	37.27	29.29	-	37.35	29.35	-
D	QPSK 3.0 /QPSK	37.27	29.39	-	37.51	29.65	-	37.36	29.48	-
Total		43.23	35.28	-	43.37	35.42	-	43.33	35.37	-

Antenna	WCDMA Mod./NB Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK 10.0 /QPSK	-	-	-	37.27	29.32	-	-	-	-
B	QPSK 10.0 /QPSK	-	-	-	37.40	29.25	-	-	-	-
C	QPSK 10.0 /QPSK	-	-	-	37.29	29.28	-	-	-	-
D	QPSK 10.0 /QPSK	-	-	-	37.47	29.41	-	-	-	-
Total		-	-	-	43.38	35.34	-	-	-	-

Configuration LTE+NB-IoT-MIMO-MC-4 (4LTE +1NB)

Maximum Output Power 37.0dBm per port

Antenna	WCDMA Mod./NB Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK 15.0 /QPSK	-	-	-	37.23	30.09	-	-	-	-
B	QPSK 15.0 /QPSK	-	-	-	37.28	30.14	-	-	-	-
C	QPSK 15.0 /QPSK	-	-	-	37.28	30.06	-	-	-	-
D	QPSK 15.0 /QPSK	-	-	-	37.41	30.29	-	-	-	-
Total		-	-	-	43.32	36.17	-	-	-	-

Configuration LTE+NB-IoT-MIMO-MC-5 (3LTE +1NB)

Maximum Output Power 37.0dBm per port

Antenna	WCDMA Mod./NB Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK 20.0 /QPSK	-	-	-	37.28	31.12	-	-	-	-
B	QPSK 20.0 /QPSK	-	-	-	37.34	31.15	-	-	-	-
C	QPSK 20.0 /QPSK	-	-	-	37.30	31.06	-	-	-	-
D	QPSK 20.0 /QPSK	-	-	-	37.37	31.30	-	-	-	-
Total		-	-	-	43.34	37.18	-	-	-	-

Configuration WCDMA+LTE+NB-IoT-MC-1 (1WCDMA+1LTE +1NB)

Maximum Output Power 37.0dBm per port

Antenna	WCDMA Mod./NB Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ QPSK 3.0 /QPSK	37.42	32.51	-	37.23	32.28	-	37.22	32.28	-
B	QPSK/ QPSK 3.0 /QPSK	37.26	32.54	-	37.35	32.52	-	37.23	32.55	-
C	QPSK/ QPSK 3.0 /QPSK	37.32	32.15	-	37.26	32.22	-	37.24	32.19	-
D	QPSK/ QPSK 3.0 /QPSK	37.39	32.63	-	37.34	32.59	-	37.33	32.60	-
Total		43.37	38.48	-	43.32	38.43	-	43.28	38.43	-

Antenna	WCDMA Mod./NB Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ QPSK 10.0 /QPSK	-	-	-	37.15	32.30	-	-	-	-
B	QPSK/ QPSK 10.0 /QPSK	-	-	-	37.16	32.27	-	-	-	-
C	QPSK/ QPSK 10.0 /QPSK	-	-	-	37.23	32.18	-	-	-	-
D	QPSK/ QPSK 10.0 /QPSK	-	-	-	37.26	32.39	-	-	-	-
Total		-	-	-	43.22	38.31	-	-	-	-

Configuration WCDMA+LTE+NB-IoT-MC-3 (3WCDMA+2LTE +1NB)

Maximum Output Power 37.0dBm per port

Antenna	WCDMA Mod./NB Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ QPSK 3.0 /QPSK	37.22	29.40	-	37.31	29.33	-	37.26	29.27	-
B	QPSK/ QPSK 3.0 /QPSK	37.14	29.29	-	37.33	29.55	-	37.35	29.59	-
C	QPSK/ QPSK 3.0 /QPSK	37.26	28.86	-	37.14	29.27	-	37.31	29.25	-
D	QPSK/ QPSK 3.0 /QPSK	37.14	29.53	-	37.32	29.62	-	37.33	29.63	-
Total		43.21	35.30	-	43.30	35.47	-	43.33	35.46	-

Antenna	WCDMA Mod./NB Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ QPSK 10.0 /QPSK	-	-	-	37.43	29.46	-	-	-	-
B	QPSK/ QPSK 10.0 /QPSK	-	-	-	37.36	29.47	-	-	-	-
C	QPSK/ QPSK 10.0 /QPSK	-	-	-	37.28	29.02	-	-	-	-
D	QPSK/ QPSK 10.0 /QPSK	-	-	-	37.32	29.51	-	-	-	-
Total		-	-	-	43.37	35.39	-	-	-	-

Configuration NR-MIMO-1C

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	QPSK/5.0	37.30	31.29	7.25	37.51	31.22	7.93	37.45	31.29	7.75
B		37.16	31.36	7.88	37.52	31.55	7.94	37.46	31.48	7.82
C		37.10	31.17	7.26	37.37	31.14	7.95	37.45	31.38	7.61
D		37.30	31.34	7.36	37.54	31.35	7.97	37.46	31.36	7.68
Total		43.24	37.31	-	43.51	37.34	-	43.48	37.40	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	16QAM/5.0	-	-	-	37.45	31.56	7.98	-	-	-
B		-	-	-	37.45	31.84	8.04	-	-	-
C		-	-	-	37.36	31.45	8.00	-	-	-
D		-	-	-	37.52	31.66	8.09	-	-	-
Total		-	-	-	43.47	37.65	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
	POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)	
A	64QAM/5.0	-	-	-	37.26	31.19	8.14	-	-	-
B		-	-	-	37.43	31.55	8.08	-	-	-
C		-	-	-	37.33	31.12	8.13	-	-	-
D		-	-	-	37.40	31.36	8.03	-	-	-
Total		-	-	-	43.38	37.33	-	-	-	-

Antenna	Modulation/ Carrier	Output Power / Peak to Average Ratio (PAR)								
	Bandwidth (MHz)	Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	256QAM/5. 0	-	-	-	37.22	31.17	8.10	-	-	-
B		-	-	-	37.54	31.51	8.12	-	-	-
C		-	-	-	37.36	31.08	8.10	-	-	-
D		-	-	-	37.43	31.31	8.09	-	-	-
Total		-	-	-	43.41	37.29	-	-	-	-

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier	Output Power / Peak to Average Ratio (PAR)								
	Bandwidth (MHz)	Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	QPSK/10.0	37.52	28.39	7.51	37.38	28.05	8.06	37.22	28.00	7.88
B		37.66	28.78	7.52	37.42	28.38	8.07	37.50	28.40	7.80
C		37.53	28.51	7.45	37.38	27.98	8.06	37.51	28.25	7.80
D		37.83	28.84	7.97	37.55	28.17	8.12	37.58	28.38	7.96
Total		43.66	34.65	-	43.45	34.17	-	43.48	34.28	-

Antenna	Modulation/ Carrier	Output Power / Peak to Average Ratio (PAR)								
	Bandwidth (MHz)	Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	16QAM/ 10.0	-	-	-	37.44	28.74	8.16	-	-	-
B		-	-	-	37.54	28.99	8.14	-	-	-
C		-	-	-	37.42	28.66	8.15	-	-	-
D		-	-	-	37.51	28.82	8.16	-	-	-
Total		-	-	-	43.50	34.82	-	-	-	-

Antenna	Modulation/ Carrier	Output Power / Peak to Average Ratio (PAR)								
	Bandwidth (MHz)	Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	64QAM/ 10.0	-	-	-	37.44	27.98	8.05	-	-	-
B		-	-	-	37.52	28.38	8.10	-	-	-
C		-	-	-	37.32	27.98	8.07	-	-	-
D		-	-	-	37.46	28.34	8.20	-	-	-
Total		-	-	-	43.46	34.19	-	-	-	-

Antenna	Modulation/ Carrier	Output Power / Peak to Average Ratio (PAR)								
	Bandwidth (MHz)	Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	256QAM/10 .0	-	-	-	37.26	27.98	8.01	-	-	-
B		-	-	-	37.45	28.31	8.02	-	-	-
C		-	-	-	37.44	28.04	8.00	-	-	-
D		-	-	-	37.46	28.06	8.02	-	-	-
Total		-	-	-	43.42	34.12	-	-	-	-

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	QPSK/15.0	37.47	26.62	7.72	37.42	26.18	8.13	37.22	26.38	7.99
B		37.46	26.89	7.74	37.57	26.51	8.10	37.51	26.62	7.94
C		37.56	26.84	7.60	37.39	26.21	8.11	37.46	26.50	7.92
D		37.86	27.00	8.43	37.69	26.47	8.29	37.60	26.57	8.58
Total		43.61	32.86	-	43.54	32.37	-	43.47	32.54	-

Antenna	Modulation/ Carrier	Output Power / Peak to Average Ratio (PAR)								
	Bandwidth (MHz)	Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	16QAM/ 15.0	-	-	-	37.39	27.71	8.12	-	-	-
B		-	-	-	37.58	28.00	8.14	-	-	-
C		-	-	-	37.45	27.76	8.28	-	-	-
D		-	-	-	37.67	27.95	8.14	-	-	-
Total		-	-	-	43.54	33.88	-	-	-	-

Antenna	Modulation/ Carrier	Output Power / Peak to Average Ratio (PAR)								
	Bandwidth (MHz)	Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	64QAM/ 15.0	-	-	-	37.41	26.22	8.04	-	-	-
B		-	-	-	37.53	26.55	8.08	-	-	-
C		-	-	-	37.31	26.22	8.03	-	-	-
D		-	-	-	37.66	26.53	7.88	-	-	-
Total		-	-	-	43.50	32.40	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	256QAM/ 15.0	-	-	-	37.36	26.21	8.04	-	-	-
B		-	-	-	37.51	26.47	8.10	-	-	-
C		-	-	-	37.39	26.23	8.04	-	-	-
D		-	-	-	37.58	26.54	8.54	-	-	-
Total		-	-	-	43.48	32.39	-	-	-	-

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	QPSK/ 20.0	37.32	25.21	7.86	37.37	24.93	8.10	37.30	25.02	7.90
B		37.58	25.65	7.76	37.58	25.31	8.10	37.49	25.46	7.96
C		37.63	25.45	7.79	37.34	24.96	8.05	37.56	25.22	7.89
D		37.83	25.73	8.52	37.73	25.28	8.58	37.57	25.36	8.52
Total		43.61	31.54	-	43.53	31.14	-	43.50	31.29	-

Antenna	Modulation/ Carrier	Output Power / Peak to Average Ratio (PAR)								
	Bandwidth (MHz)	Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	16QAM/ 20.0	-	-	-	37.39	26.52	8.04	-	-	-
B		-	-	-	37.61	26.92	8.12	-	-	-
C		-	-	-	37.40	26.58	8.03	-	-	-
D		-	-	-	37.66	26.87	8.29	-	-	-
Total		-	-	-	43.54	32.75	-	-	-	-

Antenna	Modulation/ Carrier	Output Power / Peak to Average Ratio (PAR)								
	Bandwidth (MHz)	Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	64QAM/ 20.0	-	-	-	37.39	24.96	8.01	-	-	-
B		-	-	-	37.59	25.34	8.04	-	-	-
C		-	-	-	37.36	25.06	8.05	-	-	-
D		-	-	-	37.68	25.31	8.23	-	-	-
Total		-	-	-	43.53	31.19	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	256QAM/ 20.0	-	-	-	37.44	24.96	8.09	-	-	-
B		-	-	-	37.54	25.34	8.14	-	-	-
C		-	-	-	37.43	24.98	8.08	-	-	-
D		-	-	-	37.62	25.27	8.14	-	-	-
Total		-	-	-	43.53	31.16	-	-	-	-

Configuration NR-MIMO-2C

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	QPSK/5.0	-	-	-	37.19	28.12	-	-	-	-
B		-	-	-	37.15	28.36	-	-	-	-
C		-	-	-	37.34	28.25	-	-	-	-
D		-	-	-	37.37	28.37	-	-	-	-
Total		-	-	-	43.28	34.30	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	16QAM/5.0	-	-	-	37.30	28.46	-	-	-	-
B		-	-	-	37.29	28.63	-	-	-	-
C		-	-	-	37.10	28.48	-	-	-	-
D		-	-	-	37.36	28.60	-	-	-	-
Total		-	-	-	43.28	34.56	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	64QAM/5.0	-	-	-	37.11	28.18	-	-	-	-
B		-	-	-	37.18	28.39	-	-	-	-
C		-	-	-	37.10	28.16	-	-	-	-
D		-	-	-	37.32	28.35	-	-	-	-
Total		-	-	-	43.20	34.29	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	256QAM/5.0	-	-	-	37.08	28.21	-	-	-	-
B		-	-	-	37.18	28.35	-	-	-	-
C		-	-	-	37.20	28.21	-	-	-	-
D		-	-	-	37.32	28.34	-	-	-	-
Total		-	-	-	43.22	34.30	-	-	-	-

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ 10.0	-	-	-	37.54	25.45	-	-	-	-
B		-	-	-	37.56	25.74	-	-	-	-
C		-	-	-	37.47	25.47	-	-	-	-
D		-	-	-	37.69	25.79	-	-	-	-
Total		-	-	-	43.59	31.64	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER	POWER	PAR	POWER	POWER	PAR	POWER	POWER	PAR
		(dBm)	(dBm/MHz)	(db)	(dBm)	(dBm/MHz)	(db)	(dBm)	(dBm/MHz)	(db)
A	16QAM/ 10.0	-	-	-	37.51	26.08	-	-	-	-
B		-	-	-	37.55	26.32	-	-	-	-
C		-	-	-	37.48	26.11	-	-	-	-
D		-	-	-	37.65	26.39	-	-	-	-
Total		-	-	-	43.57	32.25	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
	A	64QAM/ 10.0	-	-	-	37.33	25.33	-	-	-
B	-		-	-	37.51	25.73	-	-	-	-
C	-		-	-	37.56	25.35	-	-	-	-
D	-		-	-	37.62	25.78	-	-	-	-
Total		-	-	-	43.53	31.57	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
	A	256QAM /10.0	-	-	-	37.47	25.46	-	-	-
B	-		-	-	37.51	25.66	-	-	-	-
C	-		-	-	37.47	25.48	-	-	-	-
D	-		-	-	37.64	25.71	-	-	-	-
Total		-	-	-	43.54	31.60	-	-	-	-

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	QPSK/15.0	-	-	-	37.43	23.61	-	-	-	-
B		-	-	-	37.50	23.87	-	-	-	-
C		-	-	-	37.48	23.81	-	-	-	-
D		-	-	-	37.70	23.95	-	-	-	-
Total		-	-	-	43.55	29.83	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	16QAM/ 15.0	-	-	-	37.43	25.06	-	-	-	-
B		-	-	-	37.54	25.29	-	-	-	-
C		-	-	-	37.46	25.24	-	-	-	-
D		-	-	-	37.70	25.38	-	-	-	-
Total		-	-	-	43.55	31.26	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	64QAM/ 15.0	-	-	-	37.37	23.57	-	-	-	-
B		-	-	-	37.49	23.90	-	-	-	-
C		-	-	-	37.52	23.70	-	-	-	-
D		-	-	-	37.67	23.96	-	-	-	-
Total		-	-	-	43.53	29.81	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
	A	256QAM/ 15.0	-	-	-	37.44	23.61	-	-	-
B	-		-	-	37.49	23.76	-	-	-	-
C	-		-	-	37.52	23.75	-	-	-	-
D	-		-	-	37.61	23.84	-	-	-	-
Total		-	-	-	43.54	29.76	-	-	-	-

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	QPSK/ 20.0	-	-	-	37.41	22.29	-	-	-	-
B		-	-	-	37.54	22.66	-	-	-	-
C		-	-	-	37.54	22.41	-	-	-	-
D		-	-	-	37.70	22.69	-	-	-	-
Total		-	-	-	43.57	28.54	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	16QAM/ 20.0	-	-	-	37.46	23.93	-	-	-	-
B		-	-	-	37.65	24.23	-	-	-	-
C		-	-	-	37.45	24.07	-	-	-	-
D		-	-	-	37.69	24.28	-	-	-	-
Total		-	-	-	43.58	30.15	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
	A	64QAM/ 20.0	-	-	-	37.41	22.39	-	-	-
B	-		-	-	37.49	22.69	-	-	-	-
C	-		-	-	37.54	22.49	-	-	-	-
D	-		-	-	37.67	22.72	-	-	-	-
Total		-	-	-	43.55	28.60	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
	A	256QAM/ 20.0	-	-	-	37.39	22.31	-	-	-
B	-		-	-	37.57	22.71	-	-	-	-
C	-		-	-	37.61	22.44	-	-	-	-
D	-		-	-	37.65	22.73	-	-	-	-
Total		-	-	-	43.58	28.57	-	-	-	-

Configuration NR-MIMO-6C

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/5.0	-	-	-	37.41	23.48	-	-	-	-
B		-	-	-	37.38	23.67	-	-	-	-
C		-	-	-	37.45	23.53	-	-	-	-
D		-	-	-	37.47	23.72	-	-	-	-
Total		-	-	-	43.45	29.62	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	16QAM/5.0	-	-	-	37.29	23.75	-	-	-	-
B		-	-	-	37.43	23.97	-	-	-	-
C		-	-	-	37.41	23.71	-	-	-	-
D		-	-	-	37.45	24.00	-	-	-	-
Total		-	-	-	43.42	29.88	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER	POWER	PAR	POWER	POWER	PAR	POWER	POWER	PAR
		(dBm)	(dBm/MHz)	(db)	(dBm)	(dBm/MHz)	(db)	(dBm)	(dBm/MHz)	(db)
A	64QAM/5.0	-	-	-	37.32	23.41	-	-	-	-
B		-	-	-	37.36	23.63	-	-	-	-
C		-	-		37.20	23.45	-	-	-	-
D		-	-	-	37.34	23.65	-	-	-	-
Total		-	-	-	43.33	29.56	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER	POWER	PAR	POWER	POWER	PAR	POWER	POWER	PAR
		(dBm)	(dBm/MHz)	(db)	(dBm)	(dBm/MHz)	(db)	(dBm)	(dBm/MHz)	(db)
A	256QAM /5.0	-	-	-	37.30	23.49	-	-	-	-
B		-	-	-	37.37	23.64	-	-	-	-
C		-	-	-	37.27	23.42	-	-	-	-
D		-	-	-	37.37	23.70	-	-	-	-
Total		-	-	-	43.35	29.58	-	-	-	-

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ 10.0	-	-	-	37.40	20.67	-	-	-	-
B		-	-	-	37.59	20.98	-	-	-	-
C		-	-	-	37.47	20.68	-	-	-	-
D		-	-	-	37.61	20.99	-	-	-	-
Total		-	-	-	43.54	26.85	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER	POWER	PAR	POWER	POWER	PAR	POWER	POWER	PAR
		(dBm)	(dBm/MHz)	(db)	(dBm)	(dBm/MHz)	(db)	(dBm)	(dBm/MHz)	(db)
A	16QAM/ 10.0	-	-	-	37.39	21.30	-	-	-	-
B		-	-	-	37.58	21.58	-	-	-	-
C		-	-	-	37.41	21.29	-	-	-	-
D		-	-	-	37.56	21.59	-	-	-	-
Total		-	-	-	43.51	27.46	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	64QAM/ 10.0	-	-	-	37.33	20.55	-	-	-	-
B		-	-	-	37.54	20.84	-	-	-	-
C		-	-	-	37.35	20.55	-	-	-	-
D		-	-	-	37.53	20.85	-	-	-	-
Total		-	-	-	43.46	26.72	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER	POWER	PAR	POWER	POWER	PAR	POWER	POWER	PAR
		(dBm)	(dBm/MHz)	(db)	(dBm)	(dBm/MHz)	(db)	(dBm)	(dBm/MHz)	(db)
A	256QAM /10.0	-	-	-	37.48	20.68	-	-	-	-
B		-	-	-	37.47	20.98	-	-	-	-
C		-	-	-	37.48	20.67	-	-	-	-
D		-	-	-	37.51	20.98	-	-	-	-
Total		-	-	-	43.51	26.85	-	-	-	-

Configuration NR-MIMO-4C

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	QPSK/15.0	-	-	-	37.49	20.66	-	-	-	-
B		-	-	-	37.59	20.95	-	-	-	-
C		-	-	-	37.52	20.77	-	-	-	-
D		-	-	-	37.58	21.02	-	-	-	-
Total		-	-	-	43.57	26.87	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	16QAM/ 15.0	-	-	-	37.46	22.09	-	-	-	-
B		-	-	-	37.63	22.37	-	-	-	-
C		-	-	-	37.54	22.22	-	-	-	-
D		-	-	-	37.63	22.45	-	-	-	-
Total		-	-	-	43.59	28.31	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	64QAM/ 15.0	-	-	-	37.37	20.56	-	-	-	-
B		-	-	-	37.56	20.95	-	-	-	-
C		-	-	-	37.43	20.68	-	-	-	-
D		-	-	-	37.56	20.93	-	-	-	-
Total		-	-	-	43.50	26.80	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	256QAM/ 15.0	-	-	-	37.39	20.59	-	-	-	-
B		-	-	-	37.56	20.81	-	-	-	-
C		-	-	-	37.46	20.73			-	-
D		-	-	-	37.53	20.94	-	-	-	-
Total		-	-	-	43.51	26.79	-	-	-	-

Configuration NR-MIMO-3C

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	QPSK/ 20.0	-	-	-	37.40	20.44	-	-	-	-
B		-	-	-	37.60	20.89	-	-	-	-
C		-	-	-	37.48	20.61	-	-	-	-
D		-	-	-	37.57	20.88	-	-	-	-
Total		-	-	-	43.53	26.73	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	16QAM/ 20.0	-	-	-	37.35	22.10	-	-	-	-
B		-	-	-	37.60	22.46	-	-	-	-
C		-	-	-	37.43	22.26	-	-	-	-
D		-	-	-	37.61	22.51	-	-	-	-
Total		-	-	-	43.52	28.36	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	64QAM/ 20.0	-	-	-	37.38	20.56	-	-	-	-
B		-	-	-	37.59	20.94	-	-	-	-
C		-	-	-	37.45	20.71	-	-	-	-
D		-	-	-	37.61	20.96	-	-	-	-
Total		-	-	-	43.53	26.82	-	-	-	-

Antenna	Modulation/ Carrier	Output Power / Peak to Average Ratio (PAR)								
	Bandwidth (MHz)	Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	256QAM/ 20.0	-	-	-	37.35	20.49	-	-	-	-
B		-	-	-	37.51	20.93	-	-	-	-
C		-	-	-	37.41	20.63	-	-	-	-
D		-	-	-	37.58	20.90	-	-	-	-
Total		-	-	-	43.48	26.76	-	-	-	-

Configuration WCDMA+NR-MIMO-MC-1 (1WCDMA+1NR)

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ QPSK 20.0	-	-	-	37.25	28.74	-	-	-	-
B	QPSK/ QPSK 20.0	-	-	-	37.16	28.85	-	-	-	-
C	QPSK/ QPSK 20.0	-	-	-	37.16	28.56	-	-	-	-
D	QPSK/ QPSK 20.0	-	-	-	37.21	28.84	-	-	-	-
Total		-	-	-	43.22	34.77	-	-	-	-

Configuration WCDMA+NR-MIMO-MC-3 (2WCDMA+3NR)

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ QPSK 20.0	-	-	-	37.39	24.87	-	-	-	-
B	QPSK/ QPSK 20.0	-	-	-	37.56	25.23	-	-	-	-
C	QPSK/ QPSK 20.0	-	-	-	37.43	24.99	-	-	-	-
D	QPSK/ QPSK 20.0	-	-	-	37.51	25.23	-	-	-	-
Total		-	-	-	43.49	31.10	-	-	-	-

Configuration LTE+NR-MIMO-MC-1 (1LTE+1NR)

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK 3.0 /QPSK 5.0	-	-	-	37.29	30.28	-	-	-	-
B	QPSK 3.0 /QPSK 5.0	-	-	-	37.26	30.31	-	-	-	-
C	QPSK 3.0 /QPSK 5.0	-	-	-	37.14	30.24	-	-	-	-
D	QPSK 3.0 /QPSK 5.0	-	-	-	37.36	30.61	-	-	-	-
Total		-	-	-	43.28	36.38	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK 1.4 /QPSK 20.0	-	-	-	37.41	33.15	-	-	-	-
B	QPSK 1.4 /QPSK 20.0	-	-	-	37.46	33.24	-	-	-	-
C	QPSK 1.4 /QPSK 20.0	-	-	-	37.37	33.09	-	-	-	-
D	QPSK 1.4 /QPSK 20.0	-	-	-	37.55	33.45	-	-	-	-
Total		-	-	-	43.47	39.26	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK 5.0 /QPSK 20.0	-	-	-	37.44	28.18	-	-	-	-
B	QPSK 5.0 /QPSK 20.0	-	-	-	37.53	28.26	-	-	-	-
C	QPSK 5.0 /QPSK 20.0	-	-	-	37.50	28.24	-	-	-	-
D	QPSK 5.0 /QPSK 20.0	-	-	-	37.56	28.46	-	-	-	-
Total		-	-	-	43.53	34.31	-	-	-	-

Configuration LTE+NR-MIMO-MC-3 (3LTE+3NR)

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK 3.0 /QPSK 5.0	-	-	-	37.35	25.48	-	-	-	-
B	QPSK 3.0 /QPSK 5.0	-	-	-	37.44	25.81	-	-	-	-
C	QPSK 3.0 /QPSK 5.0	-	-	-	37.36	25.54	-	-	-	-
D	QPSK 3.0 /QPSK 5.0	-	-	-	37.41	25.74	-	-	-	-
Total		-	-	-	43.41	31.67	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK 1.4 /QPSK 20.0	-	-	-	37.34	28.55	-	-	-	-
B	QPSK 1.4 /QPSK 20.0	-	-	-	37.44	28.80	-	-	-	-
C	QPSK 1.4 /QPSK 20.0	-	-	-	37.37	28.60	-	-	-	-
D	QPSK 1.4 /QPSK 20.0	-	-	-	37.41	28.78	-	-	-	-
Total		-	-	-	43.41	34.70	-	-	-	-

Configuration LTE+NR-MIMO-MC-4 (3LTE+3NR)

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK 5.0 /QPSK 15.0	-	-	-	37.37	23.33	-	-	-	-
B	QPSK 5.0 /QPSK 15.0	-	-	-	37.51	23.63	-	-	-	-
C	QPSK 5.0 /QPSK 15.0	-	-	-	37.43	23.43	-	-	-	-
D	QPSK 5.0 /QPSK 15.0	-	-	-	37.51	23.68	-	-	-	-
Total		-	-	-	43.48	29.54	-	-	-	-

Configuration LTE+NR-MIMO-MC-4 (2LTE+3NR)

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK 5.0 /QPSK 20.0	-	-	-	37.39	24.18	-	-	-	-
B	QPSK 5.0 /QPSK 20.0	-	-	-	37.42	24.35	-	-	-	-
C	QPSK 5.0 /QPSK 20.0	-	-	-	37.43	24.25	-	-	-	-
D	QPSK 5.0 /QPSK 20.0	-	-	-	37.44	24.38	-	-	-	-
Total		-	-	-	43.44	30.31	-	-	-	-

Configuration NB-IoT+NR-MC-1 (1NB+1NR)

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ QPSK 20.0	-	-	-	37.14	34.14	-	-	-	-
B	QPSK/ QPSK 20.0	-	-	-	37.17	34.01	-	-	-	-
C	QPSK/ QPSK 20.0	-	-	-	37.16	33.94	-	-	-	-
D	QPSK/ QPSK 20.0	-	-	-	37.26	34.20	-	-	-	-
Total		-	-	-	43.20	40.09	-	-	-	-

Configuration NB-IoT+NR-MC-3 (1NB+3NR)

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ QPSK 20.0	-	-	-	37.29	31.13	-	-	-	-
B	QPSK/ QPSK 20.0	-	-	-	37.25	30.99	-	-	-	-
C	QPSK/ QPSK 20.0	-	-	-	37.30	31.07	-	-	-	-
D	QPSK/ QPSK 20.0	-	-	-	37.36	31.17	-	-	-	-
Total		-	-	-	43.32	37.11	-	-	-	-

Configuration WCDMA+LTE+NR-MIMO-MC-1 (1WCDMA+1LTE+1NR)

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK /QPSK 3.0 /QPSK 5.0	-	-	-	37.25	28.47	-	-	-	-
B	QPSK /QPSK 3.0 /QPSK 5.0	-	-	-	37.26	28.62	-	-	-	-
C	QPSK /QPSK 3.0 /QPSK 5.0	-	-	-	37.34	28.53	-	-	-	-
D	QPSK /QPSK 3.0 /QPSK 5.0	-	-	-	37.38	28.82	-	-	-	-
Total		-	-	-	43.33	34.63	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK /QPSK 5.0 /QPSK 20.0	-	-	-	37.38	27.06	-	-	-	-
B	QPSK /QPSK 5.0 /QPSK 20.0	-	-	-	37.42	27.31	-	-	-	-
C	QPSK /QPSK 5.0 /QPSK 20.0	-	-	-	37.41	27.14	-	-	-	-
D	QPSK /QPSK 5.0 /QPSK 20.0	-	-	-	37.52	27.32	-	-	-	-
Total		-	-	-	43.45	33.23	-	-	-	-

Configuration WCDMA+LTE+NR-MIMO-MC-3 (2WCDMA+2LTE+2NR)

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK /QPSK 3.0 /QPSK 5.0	-	-	-	37.31	25.55	-	-	-	-
B	QPSK /QPSK 3.0 /QPSK 5.0	-	-	-	37.35	25.74	-	-	-	-
C	QPSK /QPSK 3.0 /QPSK 5.0	-	-	-	37.34	25.60	-	-	-	-
D	QPSK /QPSK 3.0 /QPSK 5.0	-	-	-	37.46	25.83	-	-	-	-
Total		-	-	-	43.39	31.70	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK /QPSK 5.0 /QPSK 20.0	-	-	-	37.47	24.14	-	-	-	-
B	QPSK /QPSK 5.0 /QPSK 20.0	-	-	-	37.43	24.36	-	-	-	-
C	QPSK /QPSK 5.0 /QPSK 20.0	-	-	-	37.42	24.13	-	-	-	-
D	QPSK /QPSK 5.0 /QPSK 20.0	-	-	-	37.51	24.41	-	-	-	-
Total		-	-	-	43.48	30.28	-	-	-	-

Configuration LTE+NB-IoT+NR-MC-1 (1LTE+1NB+1NR)

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK /QPSK 3.0 /QPSK 5.0	-	-	-	37.20	32.76	-	-	-	-
B	QPSK /QPSK 3.0 /QPSK 5.0	-	-	-	36.93	32.62	-	-	-	-
C	QPSK /QPSK 3.0 /QPSK 5.0	-	-	-	36.83	32.43	-	-	-	-
D	QPSK /QPSK 3.0 /QPSK 5.0	-	-	-	36.93	32.80	-	-	-	-
Total		-	-	-	43.00	38.68	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK /QPSK 1.4 /QPSK 20.0	-	-	-	37.11	33.40	-	-	-	-
B	QPSK /QPSK 1.4 /QPSK 20.0	-	-	-	37.03	33.18	-	-	-	-
C	QPSK /QPSK 1.4 /QPSK 20.0	-	-	-	36.97	33.08	-	-	-	-
D	QPSK /QPSK 1.4 /QPSK 20.0	-	-	-	37.03	33.47	-	-	-	-
Total		-	-	-	43.06	39.31	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK /QPSK 5.0 /QPSK 20.0	-	-	-	37.21	32.45	-	-	-	-
B	QPSK /QPSK 5.0 /QPSK 20.0	-	-	-	36.91	31.86	-	-	-	-
C	QPSK /QPSK 5.0 /QPSK 20.0	-	-	-	37.17	32.21	-	-	-	-
D	QPSK /QPSK 5.0 /QPSK 20.0	-	-	-	37.32	32.47	-	-	-	-
Total		-	-	-	43.18	38.27	-	-	-	-

Configuration LTE+NB-IoT+NR-MC-2 (2LTE+1NB+1NR)

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK /QPSK 3.0 /QPSK 5.0	-	-	-	37.26	31.49	-	-	-	-
B	QPSK /QPSK 3.0 /QPSK 5.0	-	-	-	37.13	31.46	-	-	-	-
C	QPSK /QPSK 3.0 /QPSK 5.0	-	-	-	36.94	31.16	-	-	-	-
D	QPSK /QPSK 3.0 /QPSK 5.0	-	-	-	37.11	31.52	-	-	-	-
Total		-	-	-	43.13	37.43	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK /QPSK 1.4 /QPSK 20.0	-	-	-	37.23	32.22	-	-	-	-
B	QPSK /QPSK 1.4 /QPSK 20.0	-	-	-	37.21	32.19	-	-	-	-
C	QPSK /QPSK 1.4 /QPSK 20.0	-	-	-	37.09	31.93	-	-	-	-
D	QPSK /QPSK 1.4 /QPSK 20.0	-	-	-	37.25	32.35	-	-	-	-
Total		-	-	-	43.22	38.20	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK /QPSK 5.0 /QPSK 20.0	-	-	-	37.27	31.24	-	-	-	-
B	QPSK /QPSK 5.0 /QPSK 20.0	-	-	-	37.23	31.18	-	-	-	-
C	QPSK /QPSK 5.0 /QPSK 20.0	-	-	-	37.26	31.00	-	-	-	-
D	QPSK /QPSK 5.0 /QPSK 20.0	-	-	-	37.33	31.27	-	-	-	-
Total		-	-	-	43.29	37.19	-	-	-	-

Configuration LTE+NB-IoT+NR-MC-3 (3LTE+1NB+2NR)

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK /QPSK 3.0 /QPSK 5.0	-	-	-	37.26	29.62	-	-	-	-
B	QPSK /QPSK 3.0 /QPSK 5.0	-	-	-	37.23	29.69	-	-	-	-
C	QPSK /QPSK 3.0 /QPSK 5.0	-	-	-	37.11	29.49	-	-	-	-
D	QPSK /QPSK 3.0 /QPSK 5.0	-	-	-	37.19	29.79	-	-	-	-
Total		-	-	-	43.22	35.67	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK /QPSK 1.4 /QPSK 20.0	-	-	-	37.20	30.37	-	-	-	-
B	QPSK /QPSK 1.4 /QPSK 20.0	-	-	-	37.36	30.39	-	-	-	-
C	QPSK /QPSK 1.4 /QPSK 20.0	-	-	-	37.19	30.29	-	-	-	-
D	QPSK /QPSK 1.4 /QPSK 20.0	-	-	-	37.32	30.48	-	-	-	-
Total		-	-	-	43.29	36.40	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK /QPSK 5.0 /QPSK 20.0	-	-	-	37.28	29.37	-	-	-	-
B	QPSK /QPSK 5.0 /QPSK 20.0	-	-	-	37.34	29.32	-	-	-	-
C	QPSK /QPSK 5.0 /QPSK 20.0	-	-	-	37.27	29.28	-	-	-	-
D	QPSK /QPSK 5.0 /QPSK 20.0	-	-	-	37.35	29.43	-	-	-	-
Total		-	-	-	43.33	35.37	-	-	-	-

NOTE:

The DUT is tested without antenna. ERP/EIRP compliance is addressed at the time of licensing, as required by the responsible FCC/ISED Bureau(s). Licensee's are required to take into account maximum allowed antenna gain used in combination with above power settings to prevent the radiated output power to exceed the limits.

A.2 Occupied Bandwidth

A.2.1 Reference

FCC CFR 47 Part 2, Clause 2.1049

FCC CFR 47 Part 27, Clause 27.53

RSS-GEN, Clause 6.7

A.2.2 Method of Measurements

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 26dB bandwidth was measured in accordance with FCC KDB 971168 D01. In addition, measurements of 99% occupied bandwidths were made in accordance with RSS-GEN.

The measurement method is from ANSI C63.26:

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
- c) Set the reference level of the instrument as required to keep the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope must be at least $10\log(\text{OBW} / \text{RBW})$ below the reference level.
- d) Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

A.2.3 Measurement result

Configuration WCDMA-1C

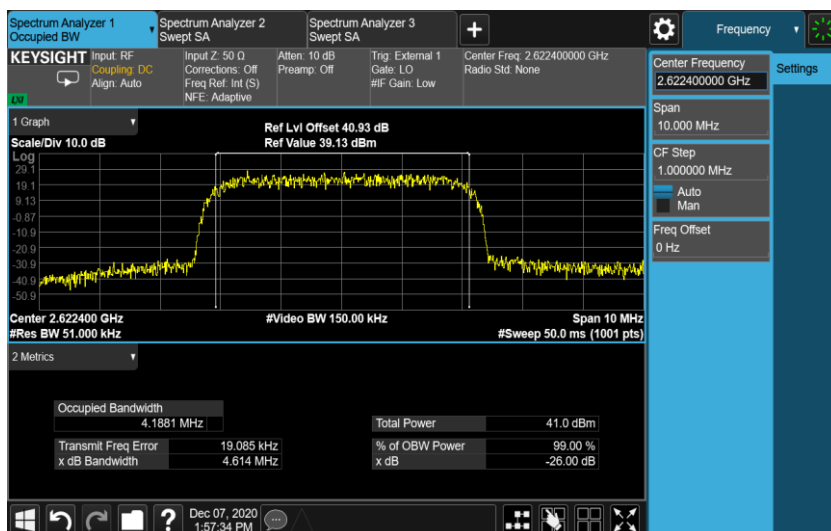
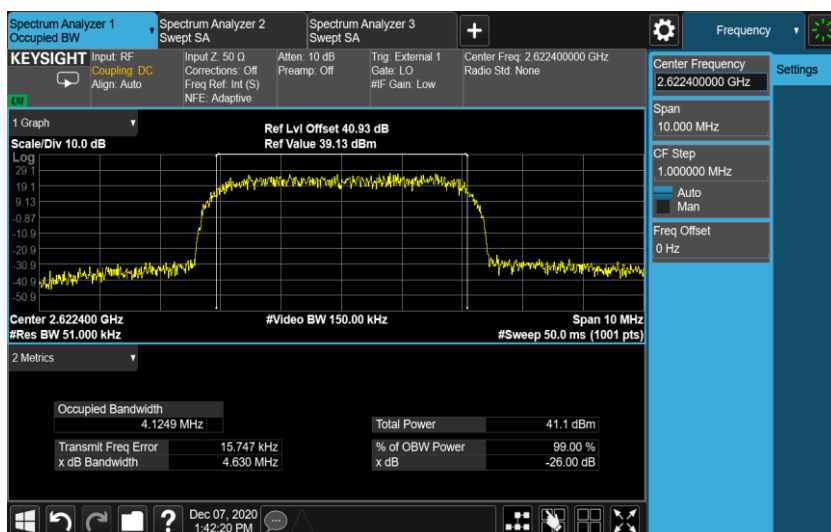
-26dBc Occupied Bandwidth

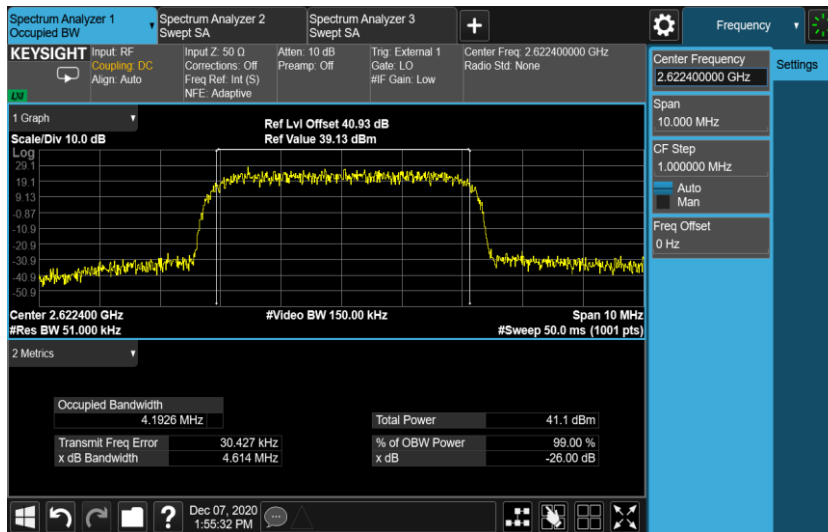
Modulation/ Bandwidth	Occupied Bandwidth (MHz)		
	Channel position B	Channel position M	Channel position T
QPSK/5.0MHz	4.630	4.630	4.630
16QAM/5.0MHz	4.614	4.614	4.614
64QAM/5.0MHz	4.614	4.601	4.600

99% Occupied Bandwidth

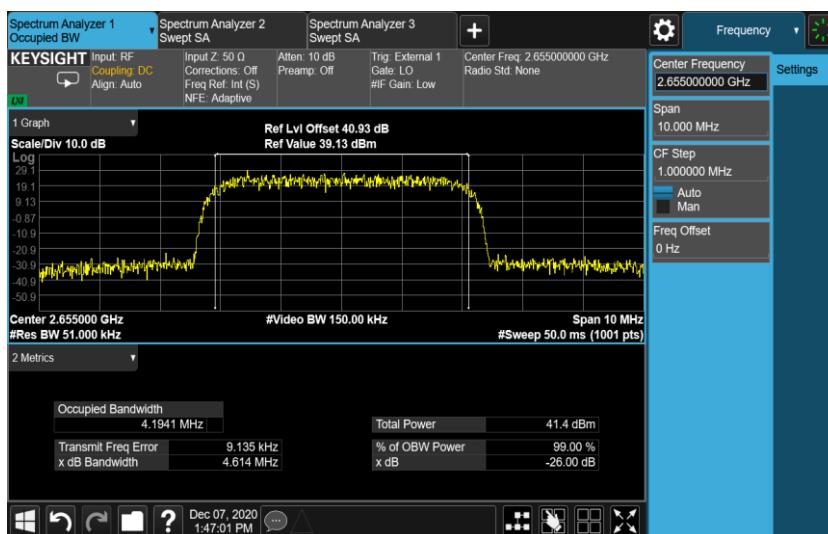
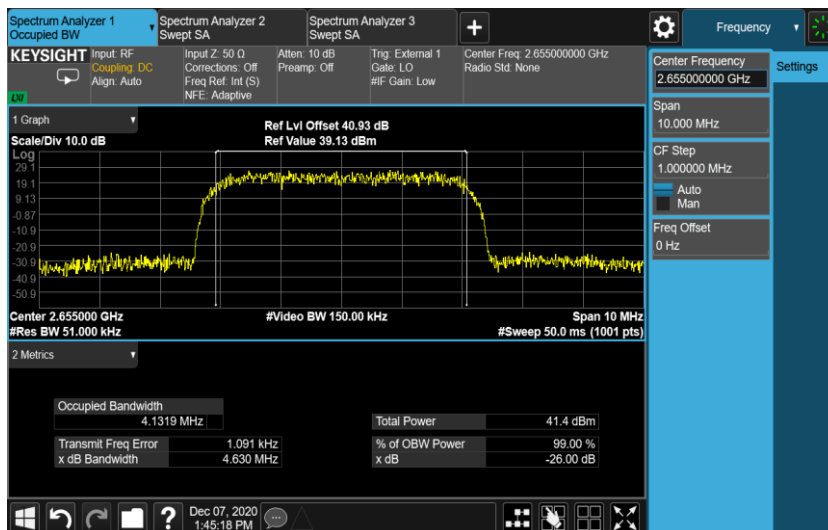
Modulation/ Bandwidth	Occupied Bandwidth (MHz)		
	Channel position B	Channel position M	Channel position T
QPSK/5.0MHz	4.1249	4.1319	4.1303
16QAM/5.0MHz	4.1881	4.1941	4.1977
64QAM/5.0MHz	4.1926	4.1641	4.1545

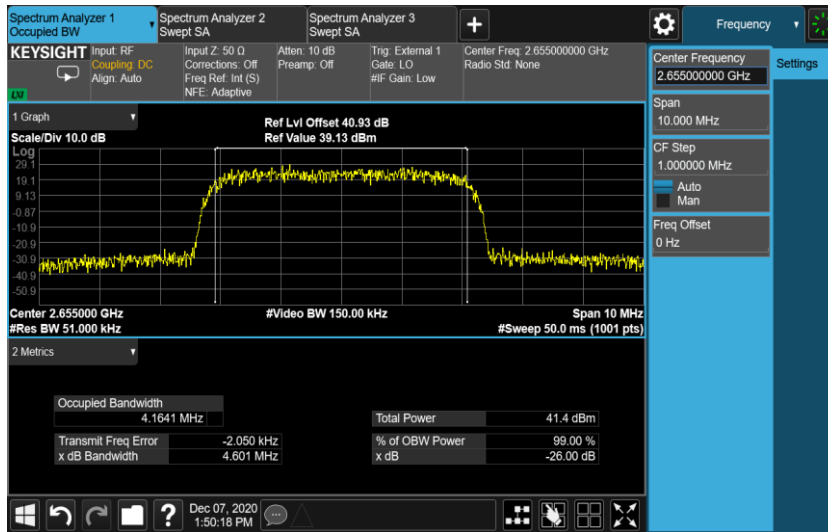
Port D, Channel Position B



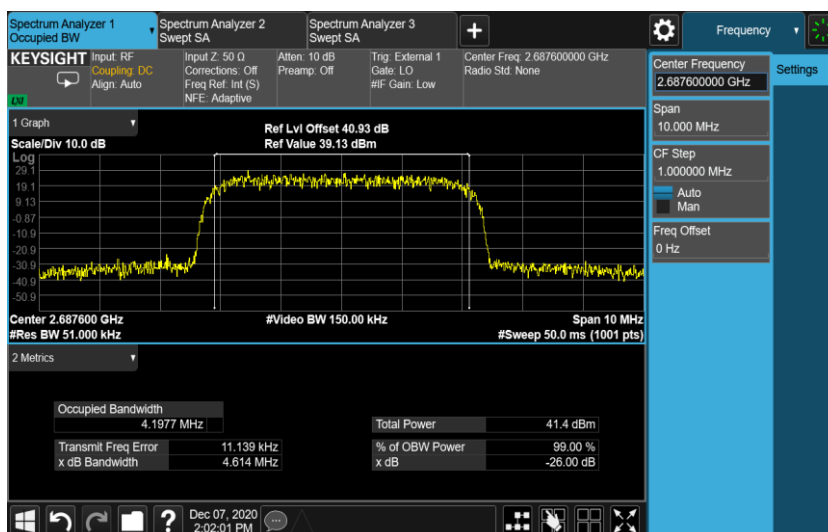
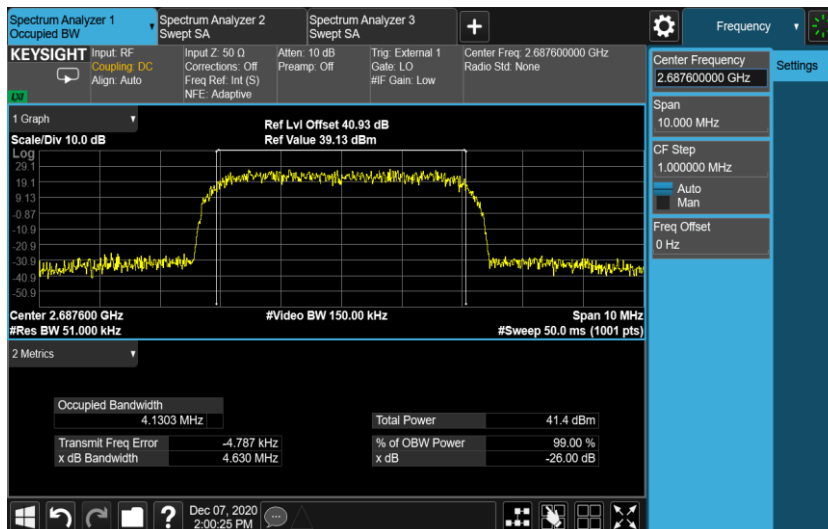


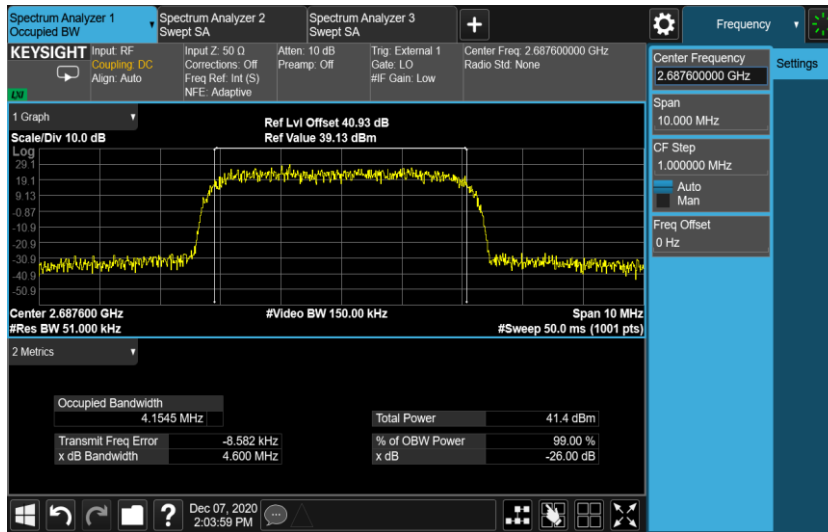
Port D, Channel Position M





Port D, Channel Position T





Configuration LTE-MIMO-1C -26dBc Occupied Bandwidth

Modulation/ Bandwidth	Occupied Bandwidth (MHz)		
	Channel position B	Channel position M	Channel position T
QPSK/ 1.4MHz	1.180	1.180	1.180
QPSK/ 3.0MHz	2.849	2.848	2.847
QPSK/ 5.0MHz	4.706	4.662	4.662
QPSK/ 10.0MHz	9.440	9.441	9.426
QPSK/ 15.0MHz	14.04	14.03	14.05
QPSK/ 20.0MHz	18.33	18.35	18.35

-26dBc Occupied Bandwidth

Bandwidth	Occupied Bandwidth (MHz)		
	Modulation 16QAM/ Channel position M	Modulation 64QAM/ Channel position M	Modulation 256QAM/ Channel position M
1.4MHz	1.209	1.194	1.195
3.0MHz	2.849	2.845	2.816
5.0MHz	4.623	4.710	4.682
10.0MHz	9.422	9.370	9.225
15.0MHz	13.79	13.97	13.83
20.0MHz	18.32	18.78	18.40

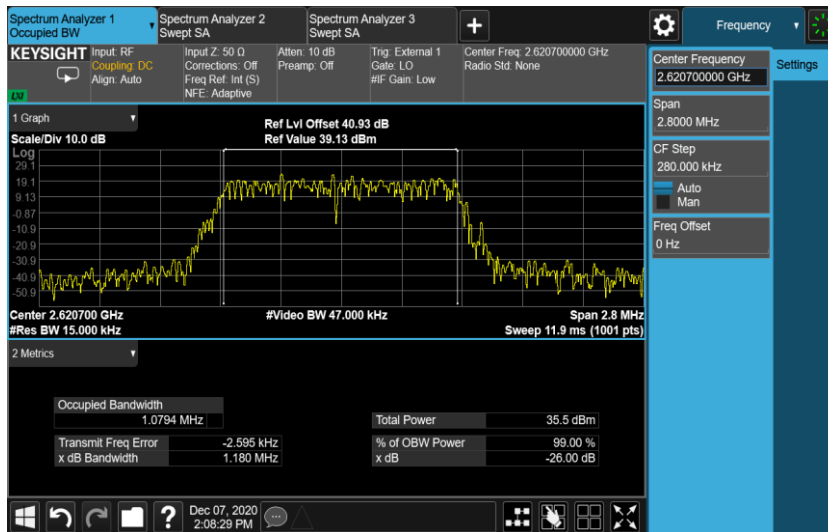
99% Occupied Bandwidth

Modulation/ Bandwidth	Occupied Bandwidth (MHz)		
	Channel position B	Channel position M	Channel position T
QPSK/ 1.4MHz	1.0794	1.0801	1.0803
QPSK/ 3.0MHz	2.6901	2.6907	2.6908
QPSK/ 5.0MHz	4.4742	4.4876	4.4874
QPSK/ 10.0MHz	8.8845	8.8896	8.9003
QPSK/ 15.0MHz	13.407	13.416	13.402
QPSK/ 20.0MHz	17.814	17.842	17.816

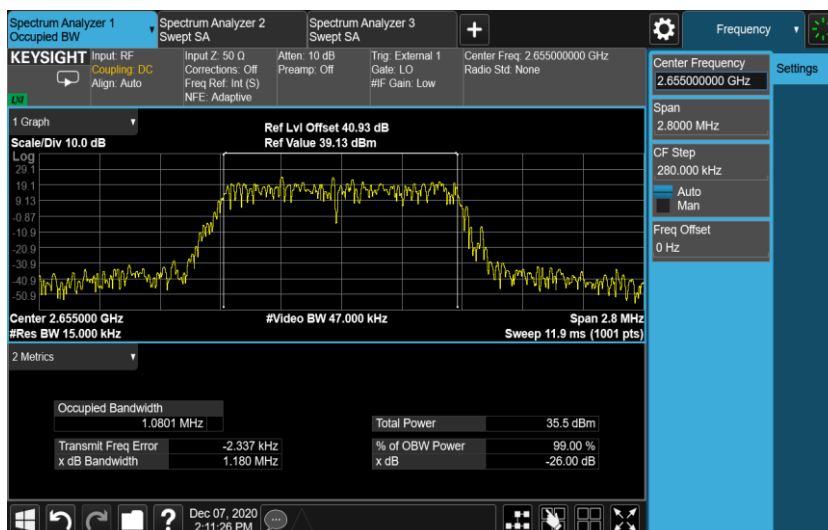
99% Occupied Bandwidth

Bandwidth	Occupied Bandwidth (MHz)		
	Modulation 16QAM/ Channel position M	Modulation 64QAM/ Channel position M	Modulation 256QAM/ Channel position M
1.4MHz	1.0901	1.0746	1.0820
3.0MHz	2.6990	2.7028	2.6913
5.0MHz	4.4290	4.4764	4.4743
10.0MHz	8.9247	8.8994	8.8918
15.0MHz	13.431	13.298	13.412
20.0MHz	17.791	17.792	17.823

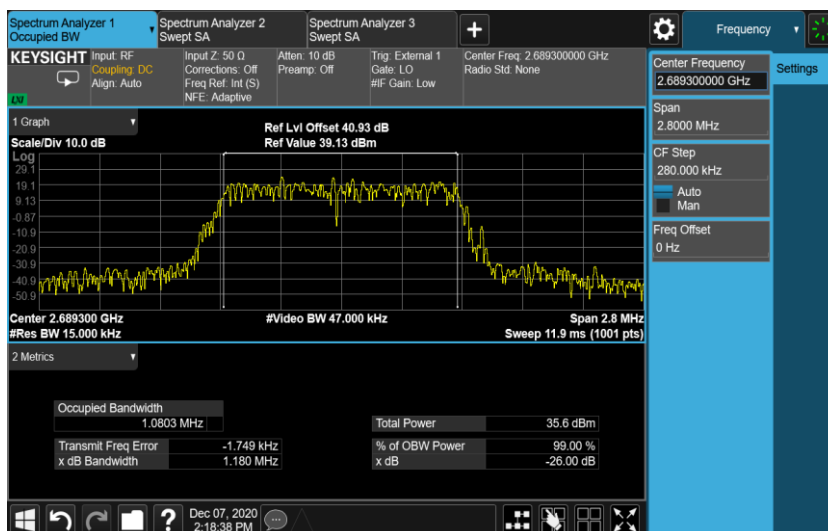
Port D, QPSK/1.4MHz Channel Position B



Port D, QPSK/1.4MHz Channel Position M



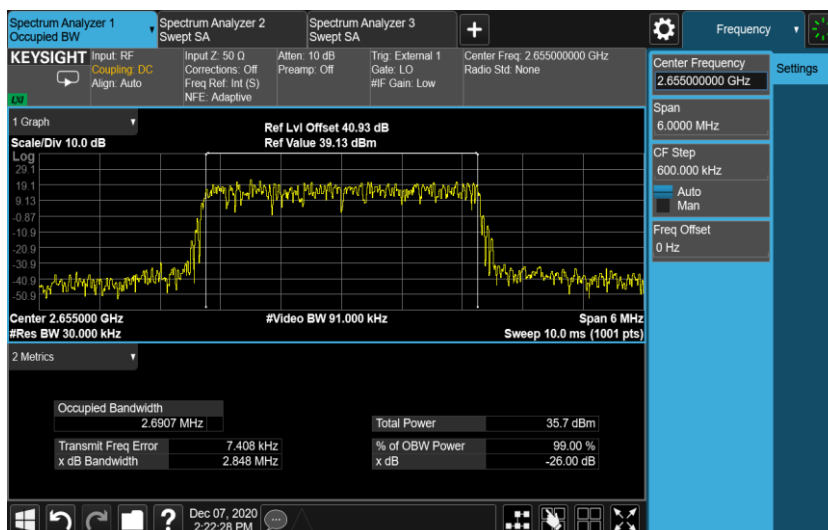
Port D, QPSK/1.4MHz Channel Position T



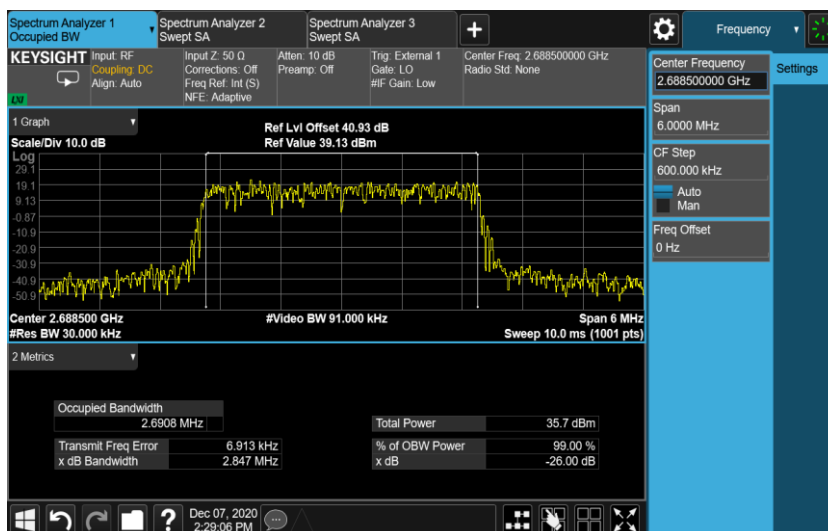
Port D, QPSK/3.0MHz Channel Position B



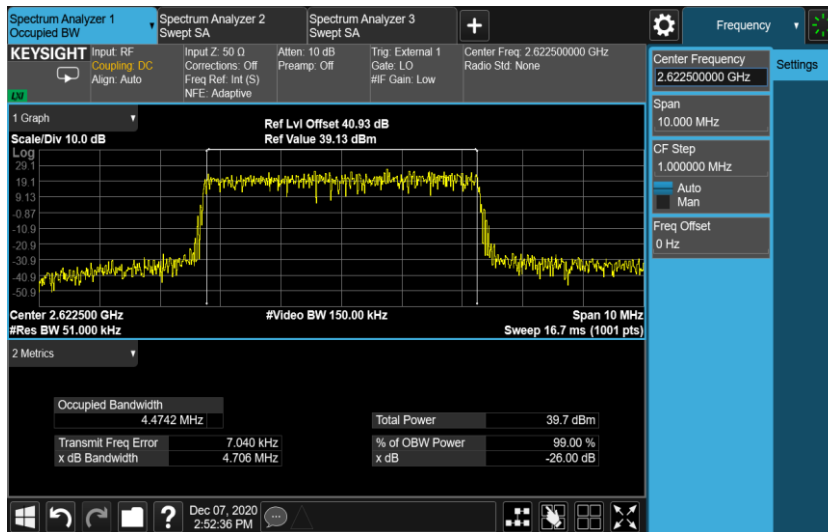
Port D, QPSK/3.0MHz Channel Position M



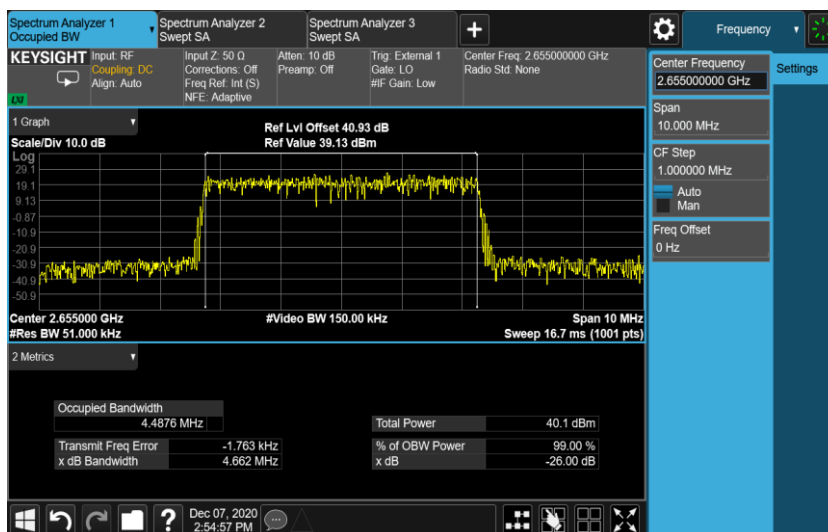
Port D, QPSK/3.0MHz Channel Position T



Port D, QPSK/5.0MHz Channel Position B



Port D, QPSK/5.0MHz Channel Position M



Port D, QPSK/5.0MHz Channel Position T

