

Ericsson AB

RF TEST REPORT

Report Type:

FCC Part 27 RF report

PRODUCT NAME:

AIR 6488 B41M

REPORT NUMBER:

191000699SHA-001

ISSUE DATE:

October 12, 2019

DOCUMENT CONTROL NUMBER:

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TEST REPORT

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Report no.: 191000699SHA-001

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Manufacturer: Ericsson AB
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FCC ID: TA8AKRD901155

SUMMARY:

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

FCC CFR 47 Part 27: MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES

PREPARED BY:

Project Engineer
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REVIEWED BY:

Reviewer
Daniel Zhao

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TEST REPORT**Revision History**

Report No.	Version	Description	Issued Date
191000699SHA-001	Rev. 01	Initial issue of report	October 12, 2019

TEST REPORT**Measurement result summary**

TEST ITEM	FCC REFERANCE	RESULT
Max Output Power and Peak to Average Power Ratio and EIRP	27.50(h) 2.1046	Pass
Occupied Bandwidth	27.53(m) 2.1049	Pass
Unwanted Emissions at Band Edge	27.53(m) 2.1051	Pass
Conducted Unwanted Emission	27.53(m) 2.1051	Pass
Radiated Unwanted Emissions	27.53(m) 2.1053	Pass
Frequency Stability	27.54 2.1055	Pass

TEST REPORT**1 GENERAL INFORMATION****1.1 Description of Equipment Under Test (EUT)**

Description:	Remote Radio Unit
Product name:	AIR 6488 B41M
Product number:	KRD 901 155/2, KRD 901 155/21, KRD 901 155/1, KRD 901 155/11 (note)
Serial Number(s)	D828976374
Rating:	-48V DC
Software Version:	PIS: CXP2030020/4_R30B16, UP: CXP2010046/5_R29B20
Hardware Version:	R1B
Sample received date:	September 25, 2019
Date of test:	September 25, 2019 ~ October 10, 2019

Note: The differences between the 4 variants are as below, and others are same.

KRD 901 155/2 (with un-security software and RDNB board for testing purpose).

KRD 901 155/21 (with security software and RDNB board for testing purpose).

KRD 901 155/1 (with un-security software and antenna).

KRD 901 155/11 (with security software and antenna).

TEST REPORT**1.2 Technical Specification**

Frequency Range:	2590MHz - 2690MHz
Number of Antenna ports:	64 TX/RX
Supported RAT:	NR
Supported other mode:	/
Max RF bandwidth (IBW):	100MHz
Supported Number of Carriers:	1 carrier
Supported modulation:	QPSK, 64QAM, 256QAM
Supported Channel Bandwidth:	20MHz, 30MHz, 50MHz, 60MHz, 80MHz, 90MHz
Declaration output power:	Maximum 30.97dBm (1.250W) per port for 20MHz channel bandwidth. Maximum 32.73dBm (1.875W) per port for 30MHz channel bandwidth. Maximum 34.95dBm (3.125W) per port for 50MHz channel bandwidth. Maximum 34.95dBm (3.125W) per port for 60MHz channel bandwidth. Maximum 34.95dBm (3.125W) per port for 80MHz channel bandwidth Maximum 34.95dBm (3.125W) per port for 90MHz channel bandwidth
Antenna Gain:	23dBi

TEST REPORT**1.3 Description of Test Facility**

Conducted testing:

Name:	Intertek Testing Services Shanghai
Address 1:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Address 2:	No. 5 Lize East Street, Ericsson Tower, Chaoyang District, Beijing 100102 P.R.C.
Telephone:	+86 21 61278200
Telefax:	+86 21 54262353
The test facility is recognized, certified, or accredited by these organizations:	FCC Accredited Lab Designation Number: CN1175, CN1258 IC Registration Lab CAB identifier.: CN0051 A2LA Accreditation Lab Certificate Number: 3309.02, 3309.04

Radiated testing:

Name:	BEIJING BOOMWAVE TEST SERVICE CO. LTD.
Address:	EMC Building, No. 1 Wang Jing East Road Chao Yang District, Beijing, 100102 P.R.C.
Telephone:	+86 10 64711866 806
The test facility is recognized, certified, or accredited by these organizations:	FCC Accredited Lab Designation Number: CN1242 IC Registration Lab CAB identifier.: CN0010 A2LA Accreditation Lab Certificate Number: 4992.01

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2 TEST SPECIFICATIONS

2.1 Related documents

FCC Part 27 (2018)

FCC Part 2 (2018)

ANSI C63.26:2015

KDB 971168 D01 v03r01

KDB 662911 D01 v02r01

2.2 Product Information

The Equipment Under Test (EUT) AIR 6488 B41M is an Ericsson Radio Unit working in the broadband radio service 2590-2690 MHz band which provides communication connections to 2590-2690 MHz network. The AIR 6488 B41M operates from a -48V DC supply.

The EUT includes 64 TX/RX ports. It can be configured to transmit in MIMO mode, 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.

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2.3 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, 64QAM and 256QAM on one of the antenna ports, it was determined that QPSK was the worst case modulation scheme and was used for all testing.

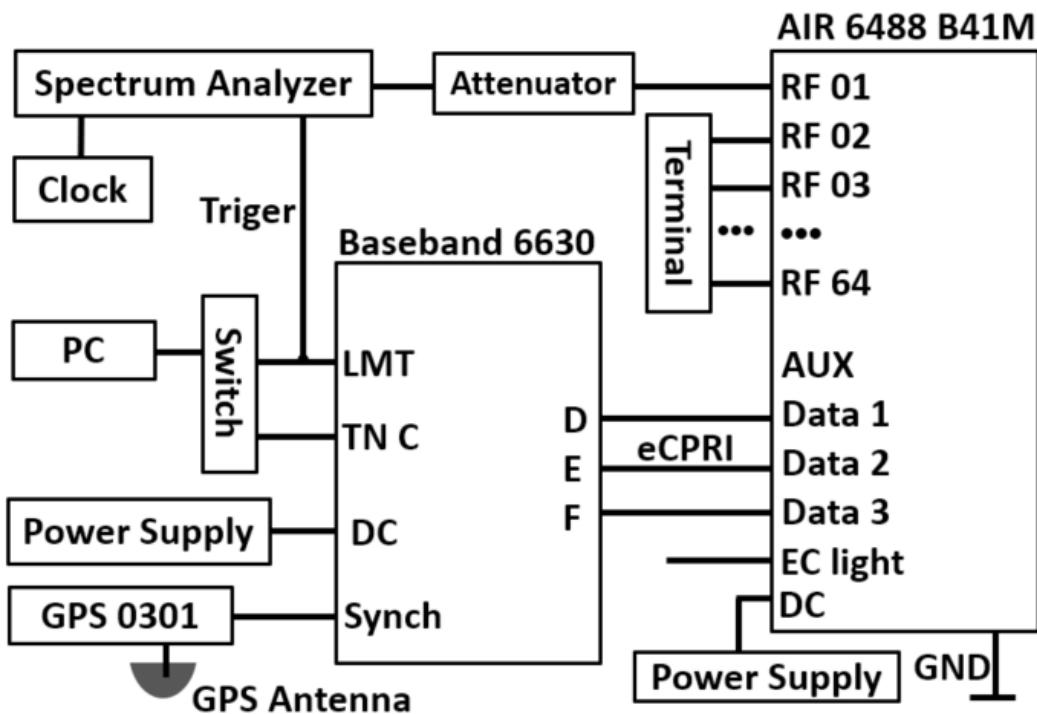
Complete testing was carried out on the worst case antenna port which was established as being the highest output power from the 64 measured ports on worst case modulation scheme. This antenna port was No.20 for 20MHz, 30MHz, 50MHz, 60MHz, 80MHz and 90MHz channel bandwidths.

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

Configuration	No. of Carriers	Channel Bandwidth	Carrier Frequency Configuration (MHz)		
			Bottom	Middle	Top
NR-MIMO-1C-20	1	20MHz	2600.01	2640.00	2680.02
NR-MIMO-1C-30	1	30MHz	2605.02	2640.00	2675.01
NR-MIMO-1C-50	1	50MHz	2615.01	2640.00	2665.02
NR-MIMO-1C-60	1	60MHz	2620.02	2640.00	2660.01
NR-MIMO-1C-80	1	80MHz	2630.01	2640.00	2650.02
NR-MIMO-1C-90	1	90MHz	2635.02	2640.00	2645.01

TEST REPORT
2.4 Test Setup

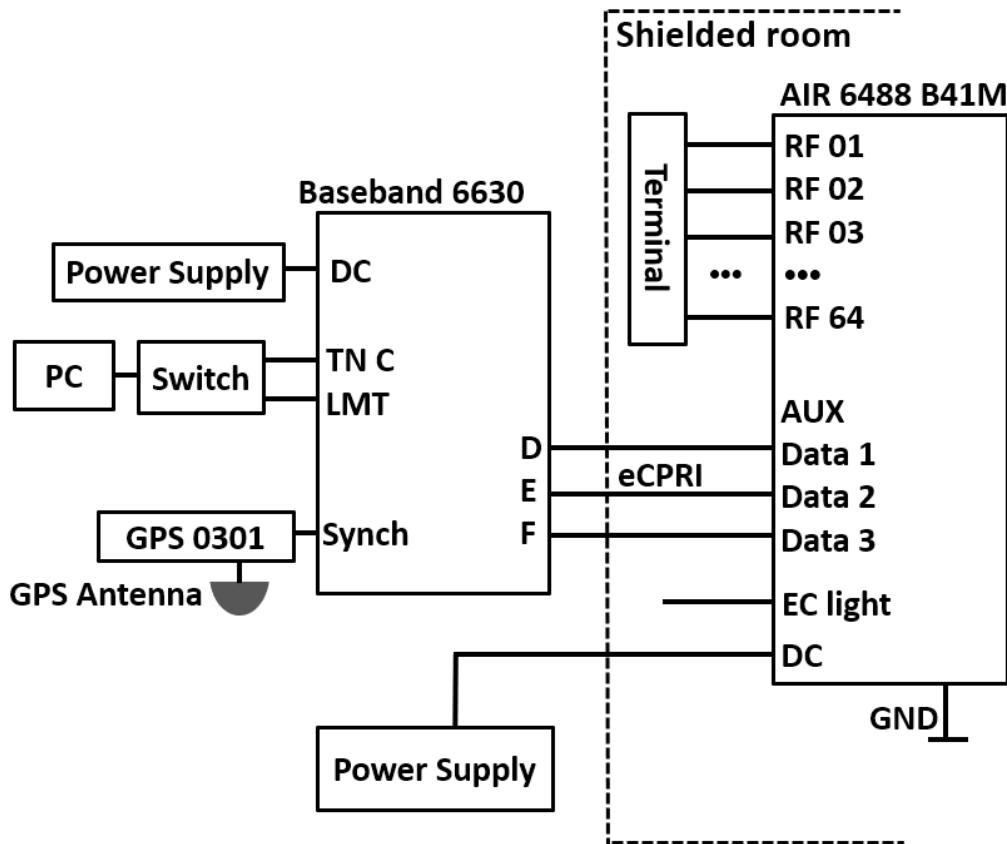
Conducted Measurement:



No.	Auxiliary Equipment	Product Number / Model Type	Version
1	Test computer	PowerEdge 220	-
2	Baseband 6630	KDU 137 848/1	R2C
3	Power supply unit	PCR2000M	-
4	Power supply	N5768A	-
5	Terminator	SMAF10-6G-M	-

TEST REPORT

Radiated Measurement:



No.	Auxiliary Equipment	Product Number / Model Type	Version
1	Test computer	PowerEdge 220	-
2	Baseband 6630	KDU 137 848/1	R2C
3	Power supply unit	PCR2000M	-
4	Power supply	N5768A	-
5	Terminator	SMAF10-6G-M	-

TEST REPORT**2.5 Test environment condition:**

Test items	Temperature	Humidity
Max Output Power and Peak to Average Power Ratio and EIRP	22°C	54% RH
Occupied Bandwidth		
Unwanted Emissions at Band Edge		
Conducted Unwanted Emission		
Radiated Unwanted Emissions	22°C	55% RH
Frequency Stability	Please refer to clause 8	

TEST REPORT
2.6 Instrument list

Intertek Testing Services Shanghai					
Conducted Emission					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
<input type="checkbox"/>	Test Receiver	R&S	ESCS 30	EC 2107	2020-07-14
<input type="checkbox"/>	A.M.N.	R&S	ESH2-Z5	EC 3119	2019-11-30
<input type="checkbox"/>	A.M.N.	R&S	ENV 216	EC 3393	2020-07-14
<input type="checkbox"/>	A.M.N.	R&S	ENV4200	EC 3558	2020-06-10
Radiated Emission					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
<input type="checkbox"/>	Test Receiver	R&S	ESIB 26	EC 3045	2020-09-12
<input type="checkbox"/>	Bilog Antenna	TESEQ	CBL 6112D	EC 4206	2020-06-10
<input type="checkbox"/>	Pre-amplifier	R&S	AFS42-00101800-25-S-42	EC 5262	2020-06-10
<input type="checkbox"/>	Horn antenna	R&S	HF 906	EC 3049	2019-11-17
<input type="checkbox"/>	Horn antenna	ETS	3117	EC 4792-1	2020-01-09
<input type="checkbox"/>	Horn antenna	TOYO	HAP18-26W	EC 4792-3	2020-07-09
<input type="checkbox"/>	Horn antenna	ETS-LINDGREN	3116C-PA	EC 5955	2020-01-28
<input type="checkbox"/>	Active loop antenna	Schwarzbeck	FMZB1519	EC 5345	2020-03-07
RF test					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
<input type="checkbox"/>	PXA Signal Analyzer	Keysight	N9030A	EC 5338	2020-03-05
<input checked="" type="checkbox"/>	PXA Signal Analyzer	Keysight	N9030A	EC 1046	2019-11-15
<input type="checkbox"/>	PXA Signal Analyzer	Keysight	N9030B	EC 6078	2020-06-11
<input type="checkbox"/>	Power sensor	Agilent	U2021XA	EC 5338-1	2020-03-05
<input type="checkbox"/>	Vector Signal Generator	Agilent	N5182B	EC 5175	2020-03-05
<input type="checkbox"/>	Spectrum analyzer	R&S	CMW500	EC5944	2019-12-22
<input type="checkbox"/>	MXG Analog Signal Generator	Agilent	N5181A	EC 5338-2	2020-03-05
<input type="checkbox"/>	Mobile Test System	Litepoint	Iqxel	EC 5176	2020-01-08
<input type="checkbox"/>	Test Receiver	R&S	ESCI 7	EC 4501	2019-09-12
Test Site					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
<input type="checkbox"/>	Shielded room	Zhongyu	-	EC 2838	2020-01-14
<input type="checkbox"/>	Shielded room	Zhongyu	-	EC 2839	2020-01-14
<input type="checkbox"/>	Semi-anechoic chamber	Albatross project	-	EC 3048	2020-07-31
<input type="checkbox"/>	Fully-anechoic chamber	Albatross project	-	EC 3047	2020-07-31

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<input checked="" type="checkbox"/>	Climatic chamber	-	CEEC-WR16H-50W	EC 1052	2020-01-18
Additional instrument					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
<input type="checkbox"/>	Therom-Hygrograph	ZJ1-2A	S.M.I.F.	EC 3783	2020-02-28
<input type="checkbox"/>	Therom-Hygrograph	ZJ1-2A	S.M.I.F.	EC 2122	2020-03-11
<input type="checkbox"/>	Therom-Hygrograph	ZJ1-2A	S.M.I.F.	EC 5198	2020-01-18
<input type="checkbox"/>	Therom-Hygrograph	ZJ1-2A	S.M.I.F.	EC 3326	2020-03-28
<input checked="" type="checkbox"/>	Humiture meter	-	TPJ-20	EC 1053	2020-01-14
<input type="checkbox"/>	Pressure meter	YM3	Shanghai Mengde	EC 3320	2020-07-01

BEIJING BOOMWAVE TEST SERVICE CO. LTD.

Conducted Emission					
Used	Equipment	Manufacturer	Type	Serial No.	Due date
<input type="checkbox"/>	Test Receiver	R&S	ESR26	101320	2019-12-28
<input type="checkbox"/>	A.M.N.	R&S	ENV216	102328	2020-12-26
<input type="checkbox"/>	A.M.N.	R&S	ENV4200	100401	2020-02-17
Radiated Emission					
Used	Equipment	Manufacturer	Type	Serial No.	Due date
<input checked="" type="checkbox"/>	Test Receiver	R&S	ESIB26	101320	2019-12-28
<input checked="" type="checkbox"/>	Spectrum Analyzer	R&S	FSV40	101403	2020-01-01
<input checked="" type="checkbox"/>	Horn Antenna	R&S	HF907	100096	2020-03-26
<input checked="" type="checkbox"/>	Horn Antenna	SCHWARZBECK	BBHA9170	797	2019-10-19
<input checked="" type="checkbox"/>	Hybrid antenna	SCHAFFNER	CBL6112B	2873	2020-08-13
<input checked="" type="checkbox"/>	Pre-amplifier	R&S	SCU40	2046336	2020-03-26
<input checked="" type="checkbox"/>	Pre-amplifier	R&S	SCU18	2046333	2020-03-26
<input checked="" type="checkbox"/>	Pre-amplifier	R&S	SCU08	2017947	2020-03-26
Test Site					
Used	Equipment	Manufacturer	Type	Serial No.	Due date
<input type="checkbox"/>	Shielded room	TDK	F1SR	-	2020-04-20
<input checked="" type="checkbox"/>	Semi-anechoic chamber	TDK	SAC10	-	2022-12-24
Additional instrument					
Used	Equipment	Manufacturer	Type	Serial No.	Due date
<input checked="" type="checkbox"/>	Temperature and Humidity Recorder	DICKSON	TM320	015080	2020-04-23

TEST REPORT**2.7 Measurement uncertainty**

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

Test item	Measurement uncertainty
Maximum output power	0.73dB
Occupied Bandwidth	0.88%
Unwanted Emissions at Band Edge	3.03dB
Conducted Unwanted Emission	3.03dB
Radiated Unwanted Emissions below 1GHz	4.90dB
Radiated Unwanted Emissions above 1GHz	5.02dB
Frequency stability	0.77×10^{-7}

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3 Maximum Output Power and Peak to Average Power Ratio and EIRP

Test result: Pass

3.1 Limit

Output Power:

$$\text{EIRP} \leq 33 \text{ dBW} + 10\log(X/Y) \text{ dBW} + 10 \log(360/\text{Beamwidth}) \text{ dBW}$$

X = actual channel bandwidth
Y = 5.5 or 6 MHz
Beamwidth = 12°

Peak to Average Ratio: ≤13 dB

3.2 Measurement Procedure

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.

Two polarizations are generated for the beam. In single RAT mode, 32 ports are used to create each polarization. The antenna gain for each polarization is declared as 23 dBi, therefore the EIRP for each polarization is calculated as the sum of the power over 32 ports plus the antenna gain. This calculation is applied for each polarization and then each polarization EIRP is summed to calculate the overall EIRP.

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3.3 Measurement result

Configuration NR-MIMO-1C-20

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)					
			Channel position B		Channel position M		Channel position T	
			Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
0	QPSK	20	30.70	8.52	31.01	8.56	30.84	8.55
1	QPSK	20	30.66	8.55	30.99	8.57	30.81	8.55
2	QPSK	20	30.79	8.53	31.03	8.58	30.86	8.55
3	QPSK	20	30.63	8.52	30.95	8.55	30.77	8.54
4	QPSK	20	30.71	8.56	30.97	8.39	30.89	8.56
5	QPSK	20	30.70	8.51	31.02	8.57	31.00	8.55
6	QPSK	20	30.75	8.56	31.03	8.58	30.95	8.57
7	QPSK	20	30.68	8.53	30.99	8.56	30.85	8.56
8	QPSK	20	30.85	8.54	31.17	8.58	31.02	8.56
9	QPSK	20	30.82	8.53	31.09	8.56	31.03	8.55
10	QPSK	20	30.83	8.52	31.01	8.55	30.93	8.56
11	QPSK	20	30.81	8.53	31.01	8.58	30.94	8.55
12	QPSK	20	30.80	8.52	31.02	8.58	30.90	8.56
13	QPSK	20	30.81	8.53	31.03	8.57	30.92	8.55
14	QPSK	20	30.69	8.56	30.98	8.57	30.88	8.57
15	QPSK	20	30.65	8.54	30.97	8.57	30.90	8.55
16	QPSK	20	30.92	8.56	31.01	8.59	30.93	8.56
17	QPSK	20	30.87	8.55	30.96	8.58	30.84	8.57
18	QPSK	20	30.76	8.53	31.05	8.57	30.99	8.56
19	QPSK	20	30.62	8.53	30.88	8.57	30.80	8.55
20	QPSK	20	30.96	8.54	31.20	8.58	31.06	8.56
21	QPSK	20	30.69	8.52	31.08	8.56	30.97	8.56
22	QPSK	20	30.85	8.55	31.08	8.57	31.02	8.56
23	QPSK	20	30.83	8.54	31.14	8.57	31.02	8.54
24	QPSK	20	30.66	8.53	30.85	8.57	30.73	8.55
25	QPSK	20	30.78	8.56	30.93	8.56	30.81	8.56
26	QPSK	20	30.68	8.53	30.91	8.57	30.81	8.56
27	QPSK	20	30.57	8.52	30.83	8.58	30.73	8.56
28	QPSK	20	30.85	8.53	31.07	8.56	31.01	8.57
29	QPSK	20	30.86	8.52	31.18	8.57	31.01	8.55
30	QPSK	20	30.71	8.57	31.05	8.56	30.99	8.55
31	QPSK	20	30.82	8.53	31.06	8.57	31.04	8.55
Total power 0-31			45.81	-	46.07	-	45.97	-
Total power 0-31 + 23dBi			68.81	-	69.07	-	68.97	-
32	QPSK	20	30.87	8.55	31.05	8.57	30.94	8.56
33	QPSK	20	30.70	8.52	31.01	8.56	30.95	8.55
34	QPSK	20	30.71	8.54	30.99	8.58	30.88	8.56
35	QPSK	20	30.78	8.54	30.96	8.57	30.81	8.56
36	QPSK	20	30.82	8.53	31.02	8.58	30.90	8.58

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37	QPSK	20	30.85	8.56	31.07	8.57	30.94	8.56
38	QPSK	20	30.81	8.54	31.07	8.57	31.02	8.57
39	QPSK	20	30.82	8.54	30.99	8.57	30.99	8.56
40	QPSK	20	30.63	8.53	30.93	8.57	30.88	8.56
41	QPSK	20	30.56	8.55	30.85	8.58	30.81	8.57
42	QPSK	20	30.77	8.53	30.95	8.58	30.82	8.56
43	QPSK	20	30.68	8.53	30.85	8.57	30.69	8.56
44	QPSK	20	30.84	8.54	31.09	8.59	30.98	8.58
45	QPSK	20	30.85	8.53	31.10	8.57	30.92	8.58
46	QPSK	20	30.95	8.56	31.05	8.57	31.01	8.55
47	QPSK	20	30.85	8.54	31.07	8.58	31.00	8.57
48	QPSK	20	30.86	8.52	31.03	8.56	30.93	8.56
49	QPSK	20	30.81	8.55	30.95	8.56	30.74	8.55
50	QPSK	20	30.80	8.50	30.96	8.57	30.91	8.55
51	QPSK	20	30.74	8.53	30.95	8.57	30.86	8.56
52	QPSK	20	30.97	8.55	31.07	8.59	30.93	8.56
53	QPSK	20	30.94	8.55	31.15	8.57	31.04	8.55
54	QPSK	20	30.69	8.57	31.05	8.57	30.95	8.56
55	QPSK	20	30.83	8.53	31.05	8.57	31.01	8.56
56	QPSK	20	30.79	8.55	31.09	8.59	30.99	8.55
57	QPSK	20	30.80	8.54	30.99	8.56	30.97	8.57
58	QPSK	20	30.86	8.56	31.06	8.57	30.91	8.56
59	QPSK	20	30.78	8.56	30.98	8.56	30.87	8.56
60	QPSK	20	30.83	8.58	31.03	8.58	30.92	8.58
61	QPSK	20	30.70	8.52	31.05	8.57	30.93	8.55
62	QPSK	20	30.77	8.52	30.95	8.58	30.92	8.56
63	QPSK	20	30.75	8.52	31.02	8.57	30.89	8.56
Total power 32-63			45.85	-	46.07	-	45.97	-
Total power 32-63 + 23dBi			68.85	-	69.07	-	68.97	-
EIRP			71.84	-	72.08	-	71.98	-

Configuration NR-MIMO-1C-30

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)					
			Channel position B		Channel position M		Channel position T	
			Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
0	QPSK	30	-	-	32.58	8.51	-	-
1	QPSK	30	-	-	32.61	8.52	-	-
2	QPSK	30	-	-	32.61	8.52	-	-
3	QPSK	30	-	-	32.47	8.50	-	-
4	QPSK	30	-	-	32.64	8.50	-	-
5	QPSK	30	-	-	32.72	8.52	-	-
6	QPSK	30	-	-	32.66	8.54	-	-
7	QPSK	30	-	-	32.60	8.52	-	-
8	QPSK	30	-	-	32.84	8.53	-	-
9	QPSK	30	-	-	32.83	8.52	-	-
10	QPSK	30	-	-	32.68	8.50	-	-

TEST REPORT

11	QPSK	30	-	-	32.79	8.51	-	-
12	QPSK	30	-	-	32.68	8.51	-	-
13	QPSK	30	-	-	32.82	8.51	-	-
14	QPSK	30	-	-	32.63	8.53	-	-
15	QPSK	30	-	-	32.58	8.51	-	-
16	QPSK	30	-	-	32.64	8.51	-	-
17	QPSK	30	-	-	32.54	8.51	-	-
18	QPSK	30	-	-	32.69	8.52	-	-
19	QPSK	30	-	-	32.57	8.52	-	-
20	QPSK	30	-	-	32.98	8.53	-	-
21	QPSK	30	-	-	32.82	8.50	-	-
22	QPSK	30	-	-	32.88	8.52	-	-
23	QPSK	30	-	-	32.79	8.52	-	-
24	QPSK	30	-	-	32.51	8.53	-	-
25	QPSK	30	-	-	32.55	8.54	-	-
26	QPSK	30	-	-	32.48	8.52	-	-
27	QPSK	30	-	-	32.40	8.52	-	-
28	QPSK	30	-	-	32.73	8.52	-	-
29	QPSK	30	-	-	32.71	8.51	-	-
30	QPSK	30	-	-	32.70	8.52	-	-
31	QPSK	30	-	-	32.72	8.51	-	-
Total power 0-31			-	-	47.72	-	-	-
Total power 0-31 + 23dBi			-	-	70.72	-	-	-
32	QPSK	30	-	-	32.69	8.52	-	-
33	QPSK	30	-	-	32.66	8.51	-	-
34	QPSK	30	-	-	32.59	8.53	-	-
35	QPSK	30	-	-	32.54	8.51	-	-
36	QPSK	30	-	-	32.62	8.52	-	-
37	QPSK	30	-	-	32.87	8.51	-	-
38	QPSK	30	-	-	32.72	8.53	-	-
39	QPSK	30	-	-	32.73	8.52	-	-
40	QPSK	30	-	-	32.61	8.53	-	-
41	QPSK	30	-	-	32.54	8.53	-	-
42	QPSK	30	-	-	32.61	8.52	-	-
43	QPSK	30	-	-	32.48	8.52	-	-
44	QPSK	30	-	-	32.72	8.53	-	-
45	QPSK	30	-	-	32.71	8.52	-	-
46	QPSK	30	-	-	32.81	8.52	-	-
47	QPSK	30	-	-	32.74	8.52	-	-
48	QPSK	30	-	-	32.62	8.54	-	-
49	QPSK	30	-	-	32.53	8.53	-	-
50	QPSK	30	-	-	32.58	8.52	-	-
51	QPSK	30	-	-	32.66	8.52	-	-
52	QPSK	30	-	-	32.80	8.53	-	-
53	QPSK	30	-	-	32.88	8.52	-	-
54	QPSK	30	-	-	32.75	8.52	-	-
55	QPSK	30	-	-	32.74	8.52	-	-

TEST REPORT

56	QPSK	30	-	-	32.79	8.51	-	-
57	QPSK	30	-	-	32.75	8.51	-	-
58	QPSK	30	-	-	32.64	8.52	-	-
59	QPSK	30	-	-	32.66	8.52	-	-
60	QPSK	30	-	-	32.69	8.53	-	-
61	QPSK	30	-	-	32.66	8.52	-	-
62	QPSK	30	-	-	32.67	8.52	-	-
63	QPSK	30	-	-	32.62	8.51	-	-
Total power 32-63				-	47.73	-		
Total power 32-63 + 23dBi				-	70.73	-		
EIRP				-	73.74	-		

Configuration NR-MIMO-1C-50

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)					
			Channel position B		Channel position M		Channel position T	
			Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
0	QPSK	50	-	-	35.01	7.65	-	-
1	QPSK	50	-	-	35.03	7.62	-	-
2	QPSK	50	-	-	35.05	7.65	-	-
3	QPSK	50	-	-	34.94	7.63	-	-
4	QPSK	50	-	-	34.97	7.62	-	-
5	QPSK	50	-	-	35.09	7.63	-	-
6	QPSK	50	-	-	35.02	7.62	-	-
7	QPSK	50	-	-	34.90	7.64	-	-
8	QPSK	50	-	-	35.22	7.65	-	-
9	QPSK	50	-	-	35.13	7.65	-	-
10	QPSK	50	-	-	35.06	7.63	-	-
11	QPSK	50	-	-	34.99	7.65	-	-
12	QPSK	50	-	-	34.93	7.65	-	-
13	QPSK	50	-	-	35.11	7.62	-	-
14	QPSK	50	-	-	34.96	7.62	-	-
15	QPSK	50	-	-	34.93	7.66	-	-
16	QPSK	50	-	-	34.89	7.62	-	-
17	QPSK	50	-	-	34.82	7.63	-	-
18	QPSK	50	-	-	35.03	7.63	-	-
19	QPSK	50	-	-	34.87	7.65	-	-
20	QPSK	50	-	-	35.33	7.62	-	-
21	QPSK	50	-	-	35.25	7.63	-	-
22	QPSK	50	-	-	35.23	7.63	-	-
23	QPSK	50	-	-	35.10	7.65	-	-
24	QPSK	50	-	-	34.92	7.66	-	-
25	QPSK	50	-	-	34.93	7.60	-	-
26	QPSK	50	-	-	34.87	7.60	-	-
27	QPSK	50	-	-	34.81	7.63	-	-
28	QPSK	50	-	-	35.10	7.62	-	-
29	QPSK	50	-	-	35.12	7.65	-	-

TEST REPORT

30	QPSK	50	-	-	35.03	7.63	-	-
31	QPSK	50	-	-	35.07	7.64	-	-
Total power 0-31			-	-	50.08	-	-	-
Total power 0-31 + 23dBi			-	-	73.08	-	-	-
32	QPSK	50	-	-	35.04	7.64	-	-
33	QPSK	50	-	-	35.07	7.64	-	-
34	QPSK	50	-	-	34.99	7.63	-	-
35	QPSK	50	-	-	34.89	7.65	-	-
36	QPSK	50	-	-	35.00	7.64	-	-
37	QPSK	50	-	-	35.05	7.64	-	-
38	QPSK	50	-	-	35.11	7.65	-	-
39	QPSK	50	-	-	35.05	7.65	-	-
40	QPSK	50	-	-	34.98	7.66	-	-
41	QPSK	50	-	-	34.90	7.63	-	-
42	QPSK	50	-	-	34.97	7.63	-	-
43	QPSK	50	-	-	34.90	7.64	-	-
44	QPSK	50	-	-	35.07	7.64	-	-
45	QPSK	50	-	-	35.12	7.64	-	-
46	QPSK	50	-	-	35.15	7.64	-	-
47	QPSK	50	-	-	35.13	7.65	-	-
48	QPSK	50	-	-	35.00	7.63	-	-
49	QPSK	50	-	-	34.94	7.65	-	-
50	QPSK	50	-	-	34.97	7.65	-	-
51	QPSK	50	-	-	34.97	7.65	-	-
52	QPSK	50	-	-	35.12	7.66	-	-
53	QPSK	50	-	-	35.23	7.64	-	-
54	QPSK	50	-	-	35.17	7.64	-	-
55	QPSK	50	-	-	35.11	7.65	-	-
56	QPSK	50	-	-	35.20	7.65	-	-
57	QPSK	50	-	-	35.11	7.61	-	-
58	QPSK	50	-	-	35.04	7.66	-	-
59	QPSK	50	-	-	35.06	7.64	-	-
60	QPSK	50	-	-	35.11	7.65	-	-
61	QPSK	50	-	-	35.09	7.63	-	-
62	QPSK	50	-	-	35.06	7.65	-	-
63	QPSK	50	-	-	34.98	7.64	-	-
Total power 32-63			-	-	50.10	-	-	-
Total power 32-63 + 23dBi			-	-	73.10	-	-	-
EIRP			-	-	76.10	-	-	-

Configuration NR-MIMO-1C-60

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)					
			Channel position B		Channel position M		Channel position T	
			Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
20	QPSK	60	-	-	35.20	7.38	-	-

TEST REPORT
Configuration NR-MIMO-1C-80

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)					
			Channel position B		Channel position M		Channel position T	
			Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
20	QPSK	80	-	-	35.20	7.49	-	-

Configuration NR-MIMO-1C-90

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)					
			Channel position B		Channel position M		Channel position T	
			Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
0	QPSK	90	-	-	34.90	7.62	-	-
1	QPSK	90	-	-	34.80	7.62	-	-
2	QPSK	90	-	-	34.86	7.61	-	-
3	QPSK	90	-	-	34.74	7.60	-	-
4	QPSK	90	-	-	34.74	7.62	-	-
5	QPSK	90	-	-	34.87	7.61	-	-
6	QPSK	90	-	-	34.77	7.62	-	-
7	QPSK	90	-	-	34.74	7.62	-	-
8	QPSK	90	-	-	34.99	7.64	-	-
9	QPSK	90	-	-	34.96	7.63	-	-
10	QPSK	90	-	-	34.85	7.61	-	-
11	QPSK	90	-	-	34.81	7.63	-	-
12	QPSK	90	-	-	34.68	7.64	-	-
13	QPSK	90	-	-	34.98	7.62	-	-
14	QPSK	90	-	-	34.83	7.61	-	-
15	QPSK	90	-	-	34.70	7.63	-	-
16	QPSK	90	-	-	34.74	7.60	-	-
17	QPSK	90	-	-	34.68	7.61	-	-
18	QPSK	90	-	-	34.82	7.62	-	-
19	QPSK	90	-	-	34.61	7.64	-	-
20	QPSK	90	-	-	35.17	7.62	-	-
21	QPSK	90	-	-	35.09	7.62	-	-
22	QPSK	90	-	-	35.06	7.62	-	-
23	QPSK	90	-	-	34.97	7.64	-	-
24	QPSK	90	-	-	34.70	7.63	-	-
25	QPSK	90	-	-	34.73	7.58	-	-
26	QPSK	90	-	-	34.76	7.60	-	-
27	QPSK	90	-	-	34.63	7.60	-	-
28	QPSK	90	-	-	34.85	7.63	-	-
29	QPSK	90	-	-	34.95	7.64	-	-
30	QPSK	90	-	-	34.82	7.63	-	-
31	QPSK	90	-	-	34.86	7.62	-	-
Total power 0-31			-	-	49.89	-	-	-
Total power 0-31 + 23dB			-	-	72.89	-	-	-
32	QPSK	90	-	-	34.83	7.60	-	-

TEST REPORT

33	QPSK	90	-	-	34.82	7.62	-	-
34	QPSK	90	-	-	34.82	7.60	-	-
35	QPSK	90	-	-	34.71	7.63	-	-
36	QPSK	90	-	-	34.82	7.64	-	-
37	QPSK	90	-	-	34.92	7.65	-	-
38	QPSK	90	-	-	34.89	7.61	-	-
39	QPSK	90	-	-	34.84	7.63	-	-
40	QPSK	90	-	-	34.73	7.62	-	-
41	QPSK	90	-	-	34.73	7.62	-	-
42	QPSK	90	-	-	34.77	7.60	-	-
43	QPSK	90	-	-	34.72	7.64	-	-
44	QPSK	90	-	-	34.88	7.61	-	-
45	QPSK	90	-	-	34.96	7.65	-	-
46	QPSK	90	-	-	34.93	7.62	-	-
47	QPSK	90	-	-	34.93	7.63	-	-
48	QPSK	90	-	-	34.80	7.61	-	-
49	QPSK	90	-	-	34.78	7.63	-	-
50	QPSK	90	-	-	34.81	7.62	-	-
51	QPSK	90	-	-	34.69	7.62	-	-
52	QPSK	90	-	-	34.96	7.65	-	-
53	QPSK	90	-	-	35.10	7.60	-	-
54	QPSK	90	-	-	34.95	7.62	-	-
55	QPSK	90	-	-	34.92	7.61	-	-
56	QPSK	90	-	-	34.92	7.62	-	-
57	QPSK	90	-	-	35.01	7.59	-	-
58	QPSK	90	-	-	34.88	7.62	-	-
59	QPSK	90	-	-	34.88	7.62	-	-
60	QPSK	90	-	-	34.93	7.62	-	-
61	QPSK	90	-	-	34.91	7.62	-	-
62	QPSK	90	-	-	34.78	7.63	-	-
63	QPSK	90	-	-	34.80	7.64	-	-
Total power 32-63			-	-	49.91	-	-	-
Total power 32-63 + 23dBi			-	-	72.91	-	-	-
EIRP			-	-	75.91	-	-	-

TEST REPORT

4 Occupied Bandwidth

Test result: Pass

4.1 Measurement Procedure

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

The measurement method is from KDB 971168 4.2:

- 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 (i.e., two to five times the OBW).
- 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) Set the detection mode to peak, and the trace mode to max hold.
- e) Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

TEST REPORT

4.2 Measurement result

Configuration NR-MIMO-1C-20

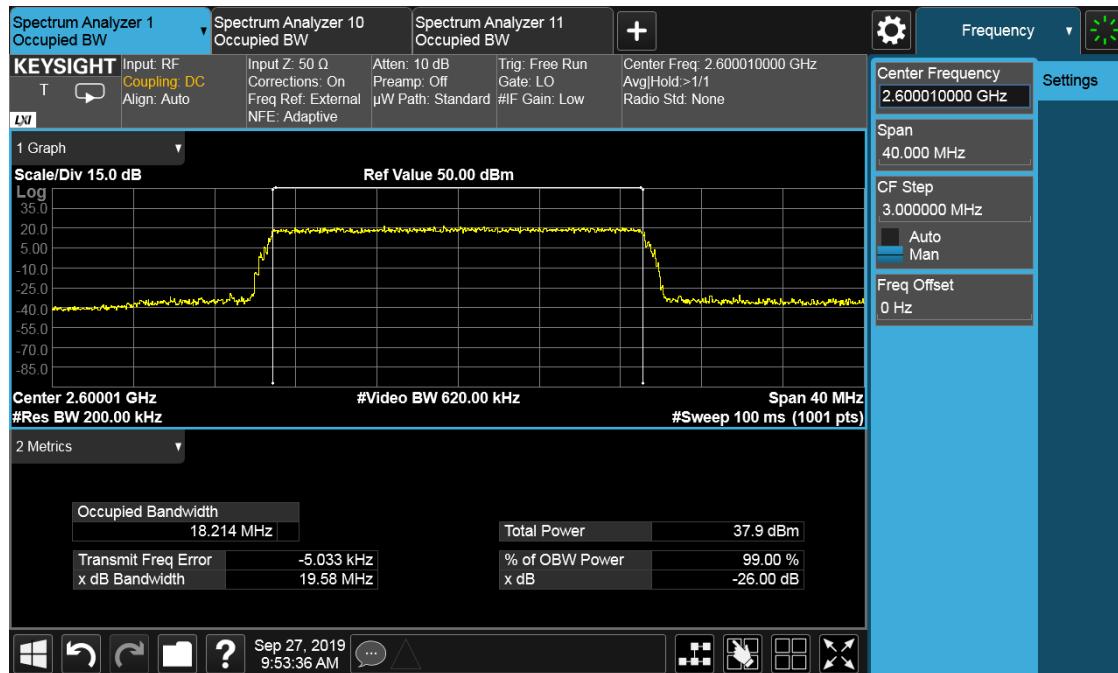
99% Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
20	QPSK	20MHz	18.214	18.173	18.168
20	64QAM	20MHz	-	18.209	-
20	256QAM	20MHz	-	18.205	-

-26dBc Occupied Bandwidth

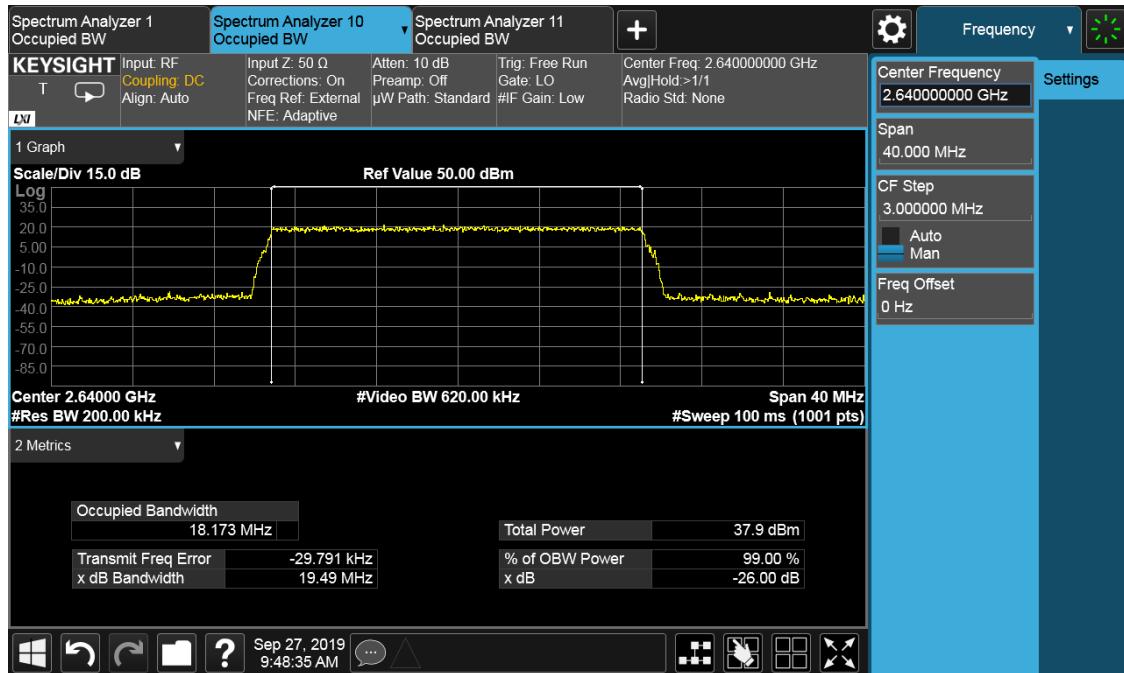
Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
20	QPSK	20MHz	19.58	19.49	19.61
20	64QAM	20MHz	-	19.43	-
20	256QAM	20MHz	-	19.55	-

QPSK, 20MHz, Channel position B

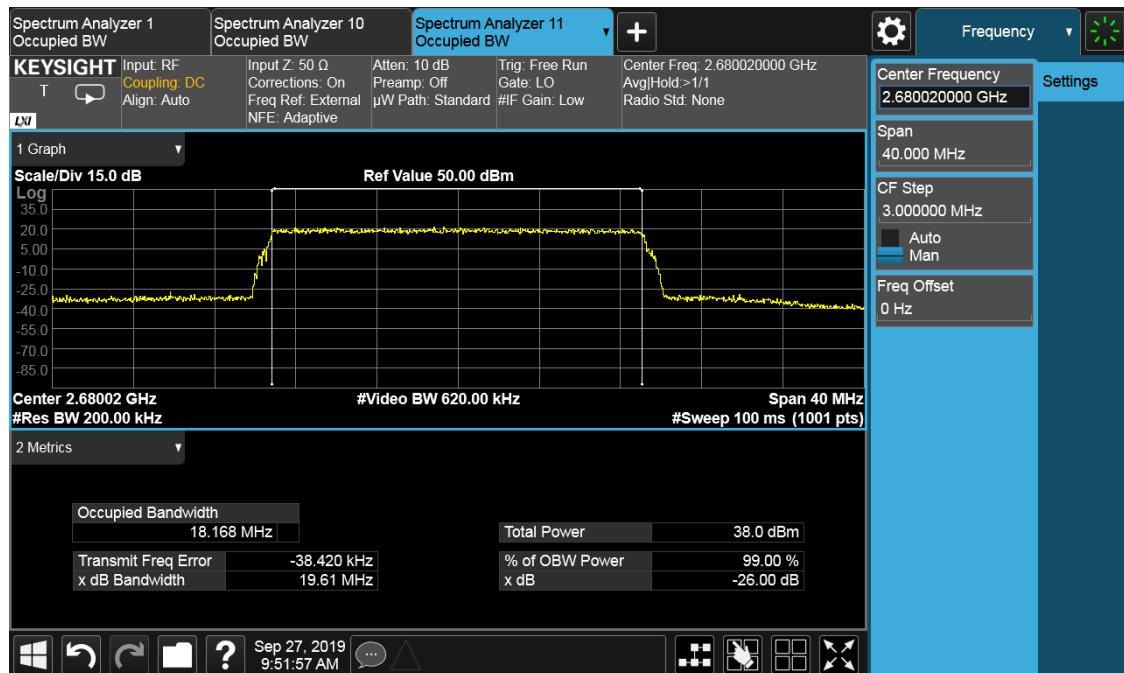


TEST REPORT

QPSK, 20MHz, Channel position M

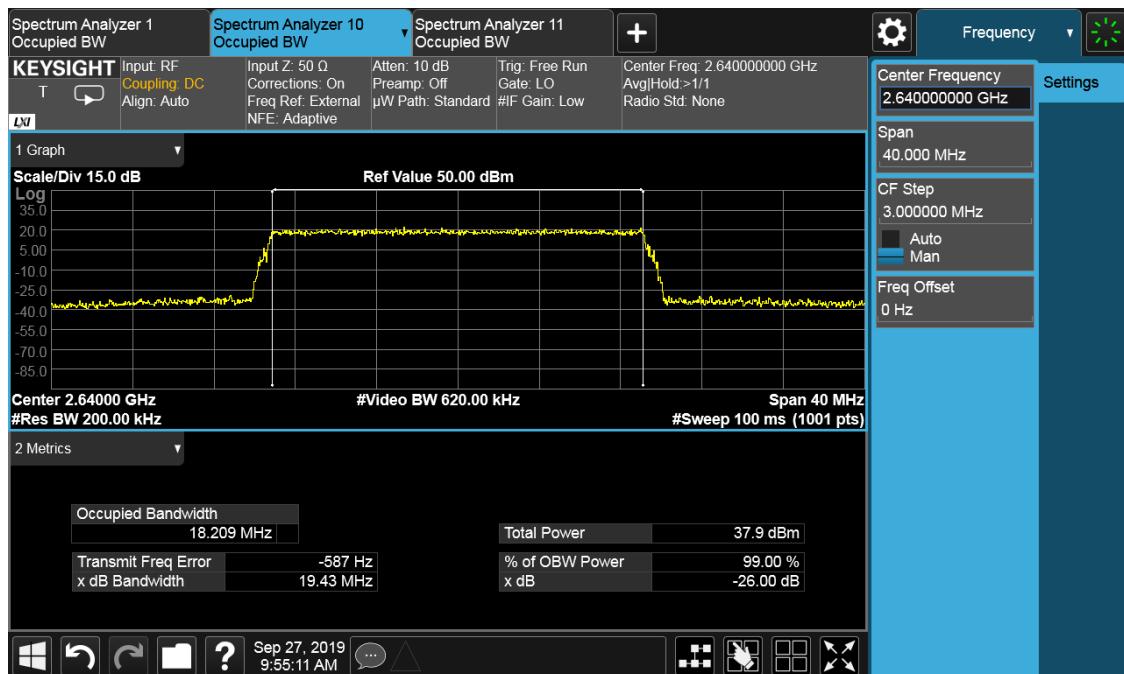


QPSK, 20MHz, Channel position T

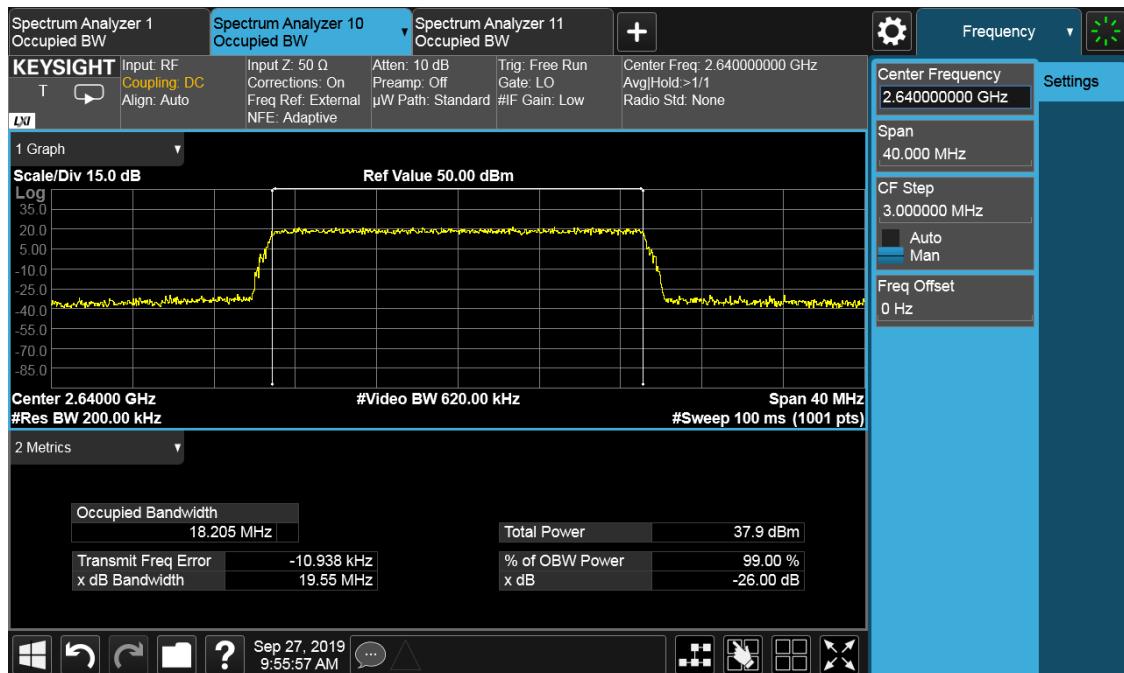


TEST REPORT

64QAM, 20MHz, Channel position M



256QAM, 20MHz, Channel position M



TEST REPORT

Configuration NR-MIMO-1C-30

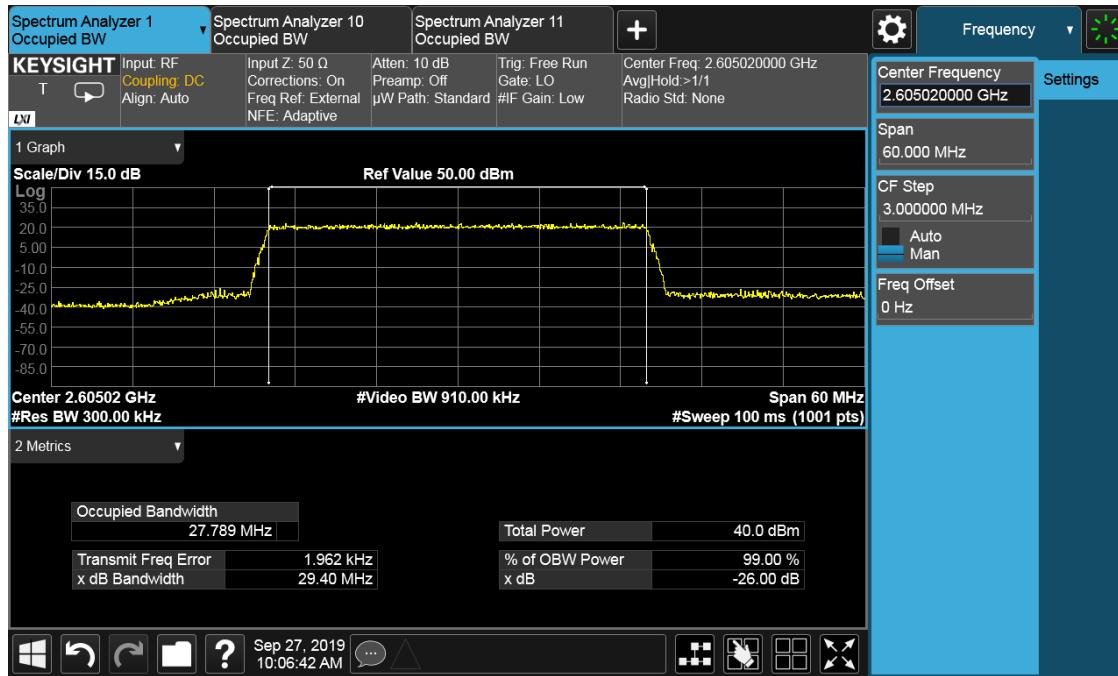
99% Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
20	QPSK	30MHz	27.789	27.806	27.781
20	64QAM	30MHz	-	27.821	-
20	256QAM	30MHz	-	27.765	-

-26dBc Occupied Bandwidth

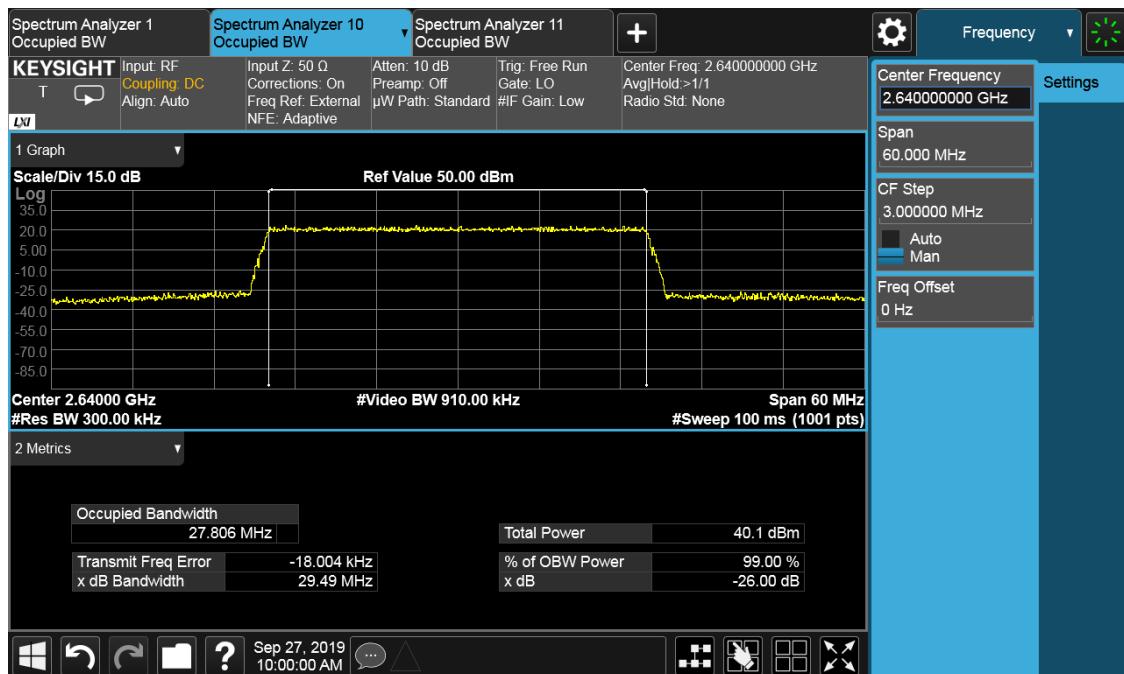
Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
20	QPSK	30MHz	29.40	29.49	29.39
20	64QAM	30MHz	-	29.36	-
20	256QAM	30MHz	-	29.40	-

QPSK, 30MHz, Channel position B

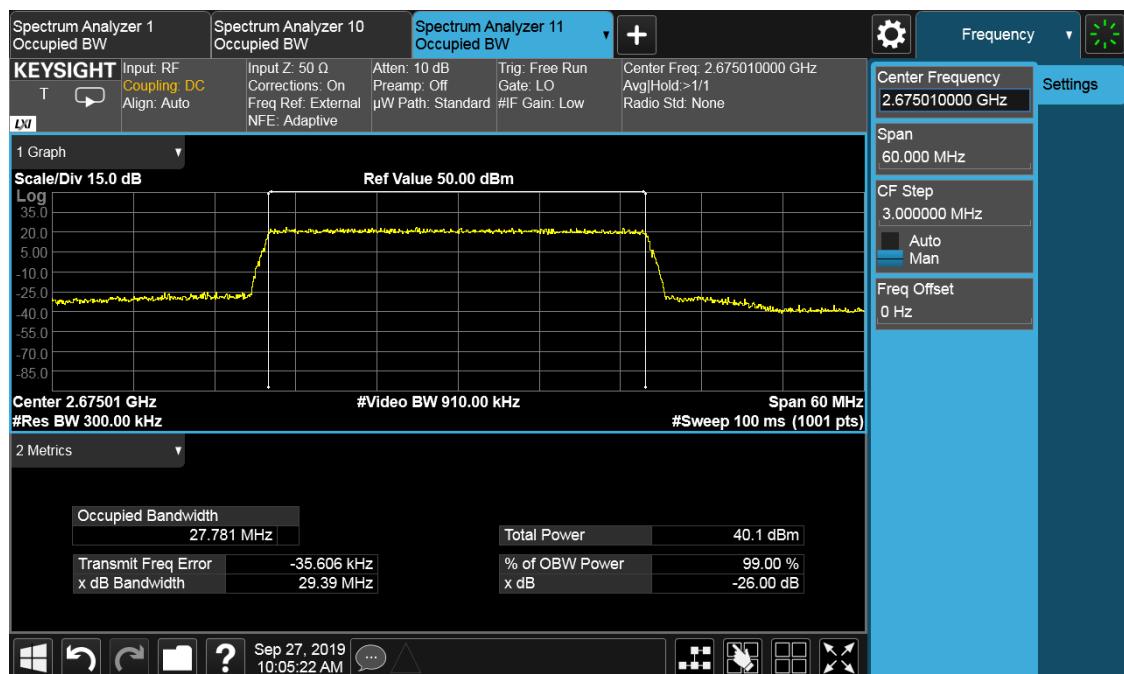


TEST REPORT

QPSK, 30MHz, Channel position M

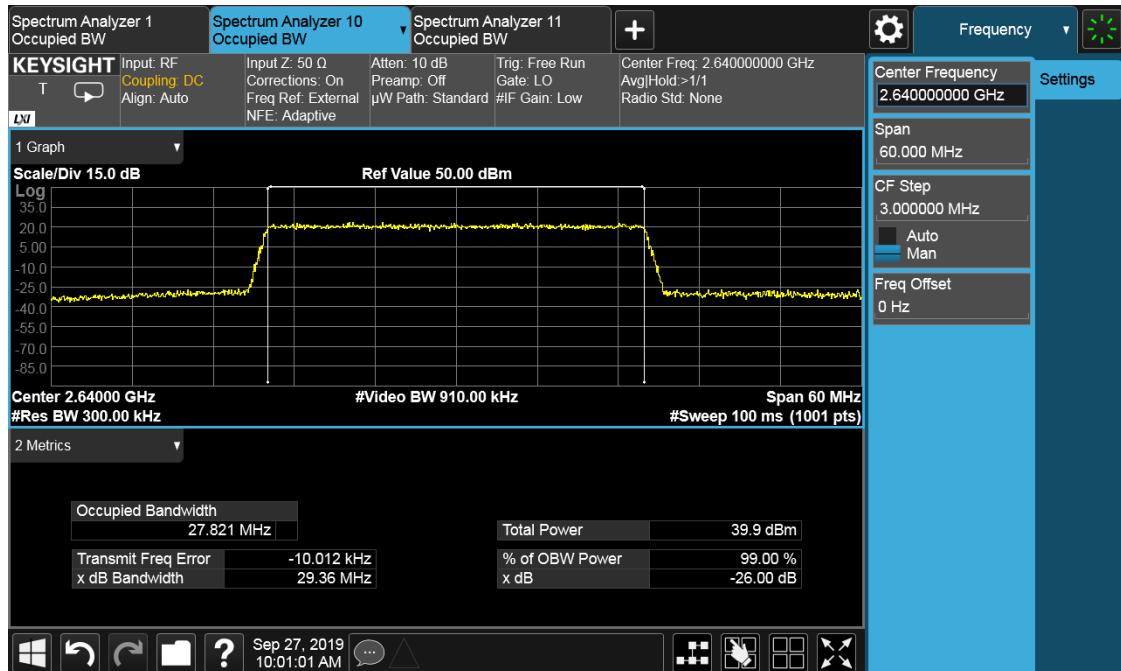


QPSK, 30MHz, Channel position T

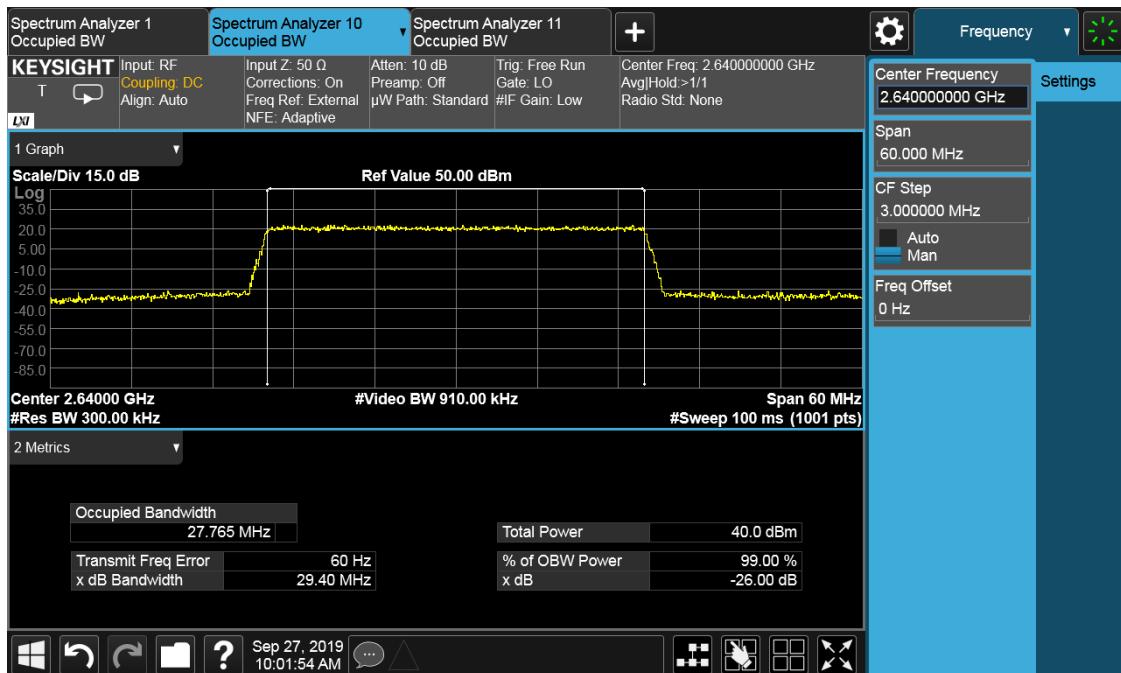


TEST REPORT

64QAM, 30MHz, Channel position M



256QAM, 30MHz, Channel position M



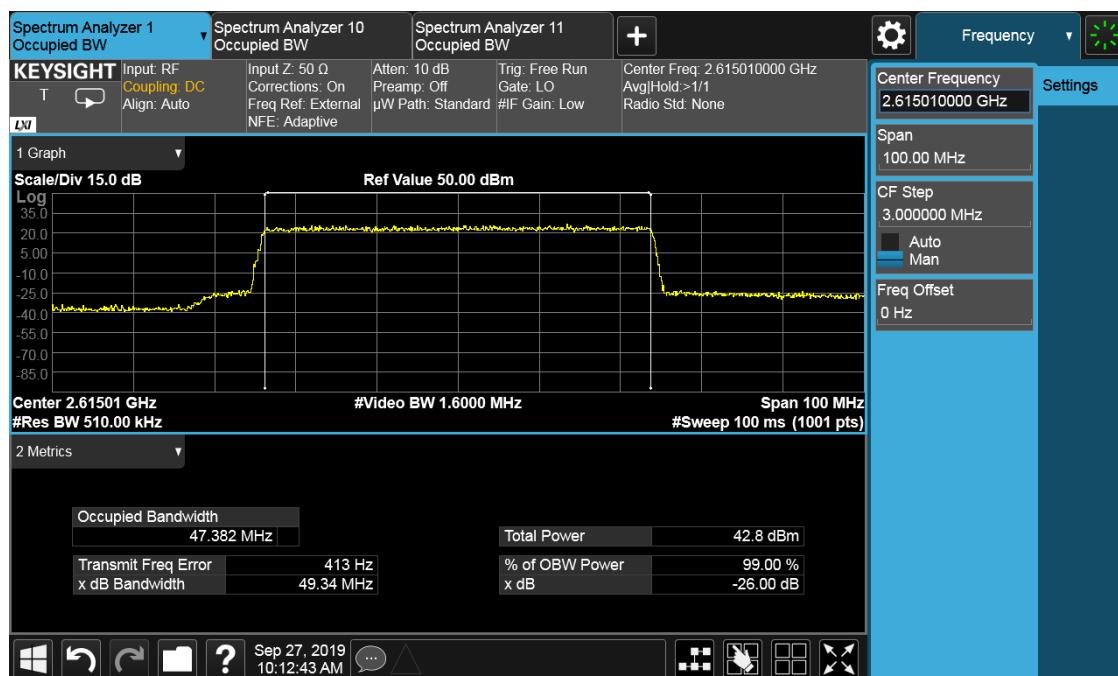
TEST REPORT
Configuration NR-MIMO-1C-50

99% Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
20	QPSK	50MHz	47.382	47.455	47.378
20	64QAM	50MHz	-	47.377	-
20	256QAM	50MHz	-	47.363	-

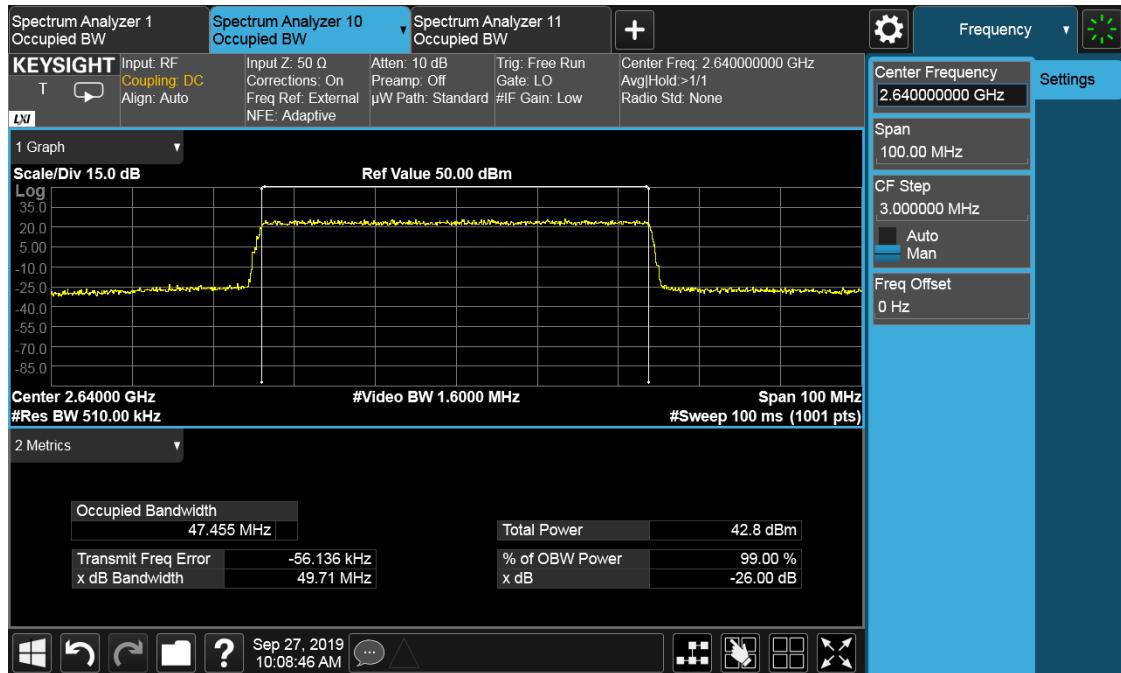
-26dBc Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
20	QPSK	50MHz	49.34	49.71	49.55
20	64QAM	50MHz	-	49.62	-
20	256QAM	50MHz	-	49.43	-

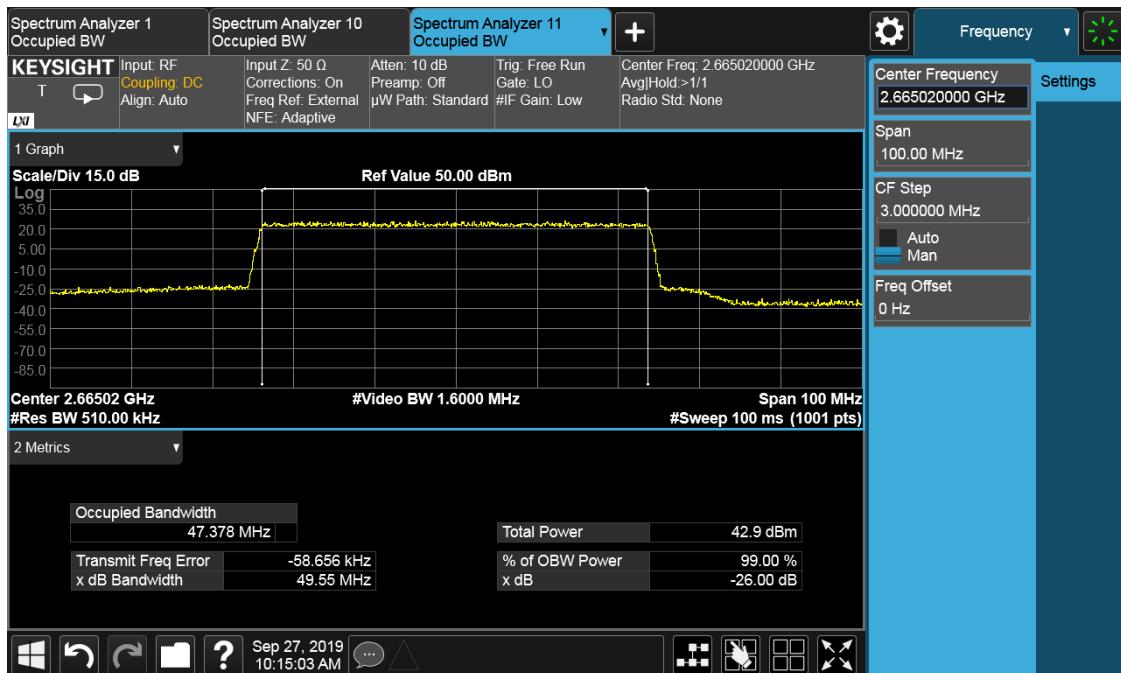
QPSK, 50MHz, Channel position B


TEST REPORT

QPSK, 50MHz, Channel position M

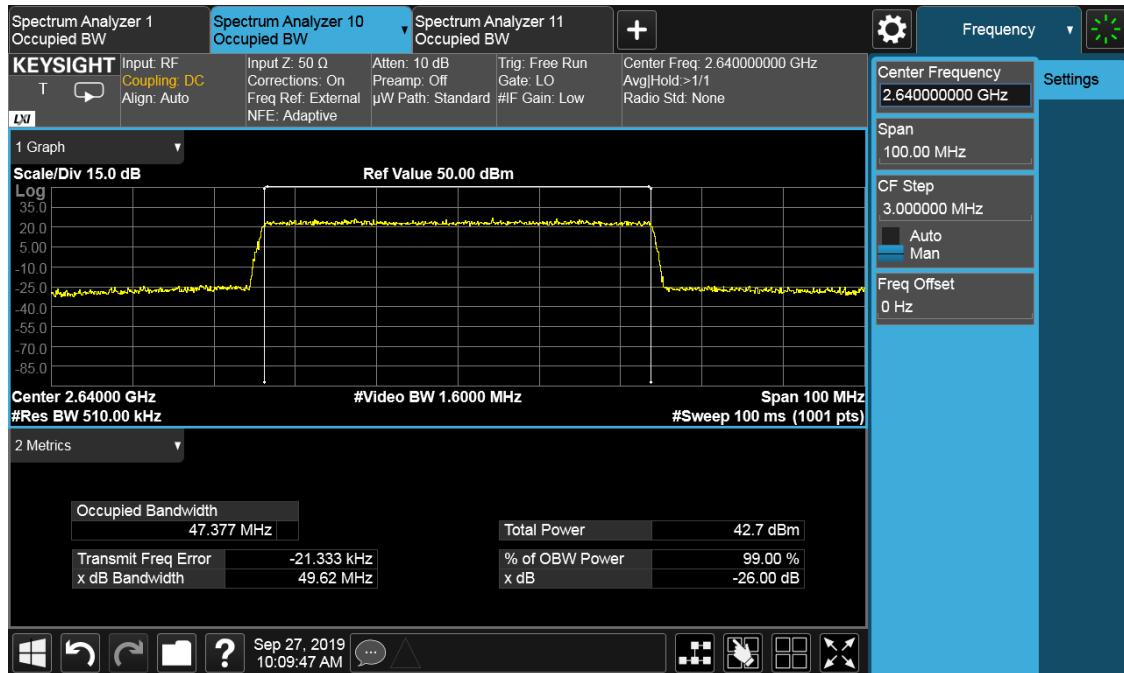


QPSK, 50MHz, Channel position T

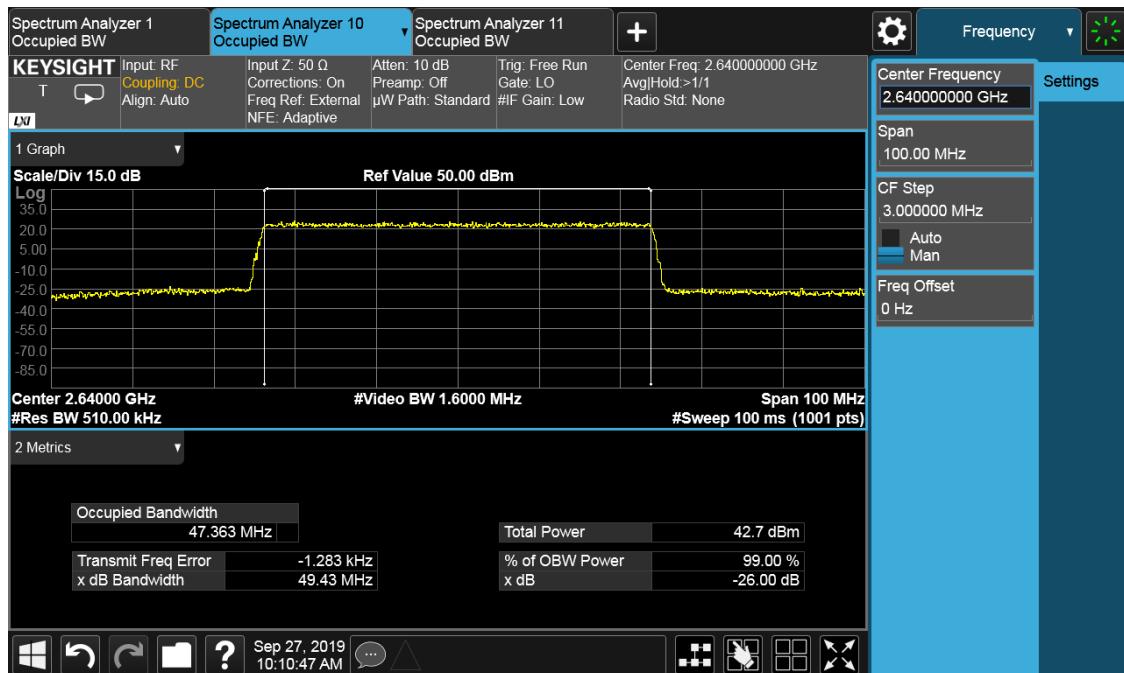


TEST REPORT

64QAM, 50MHz, Channel position M



256QAM, 50MHz, Channel position M

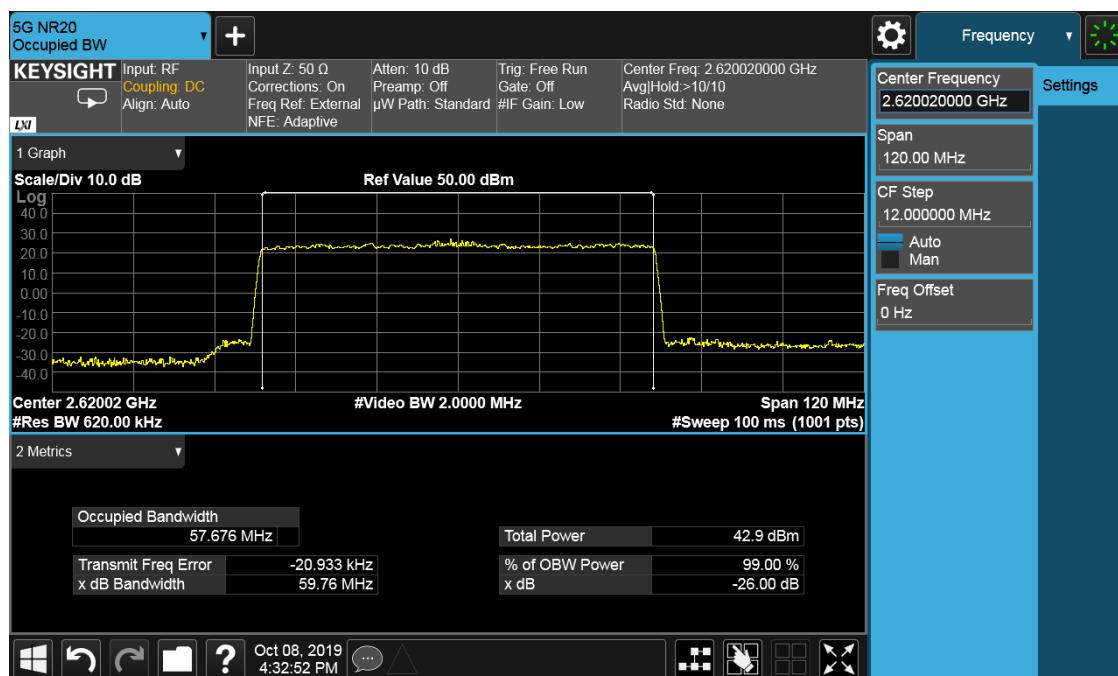


TEST REPORT
Configuration NR-MIMO-1C-60
99% Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
20	QPSK	60MHz	57.675	57.700	57.650
20	64QAM	60MHz	-	57.689	-
20	256QAM	60MHz	-	57.666	-

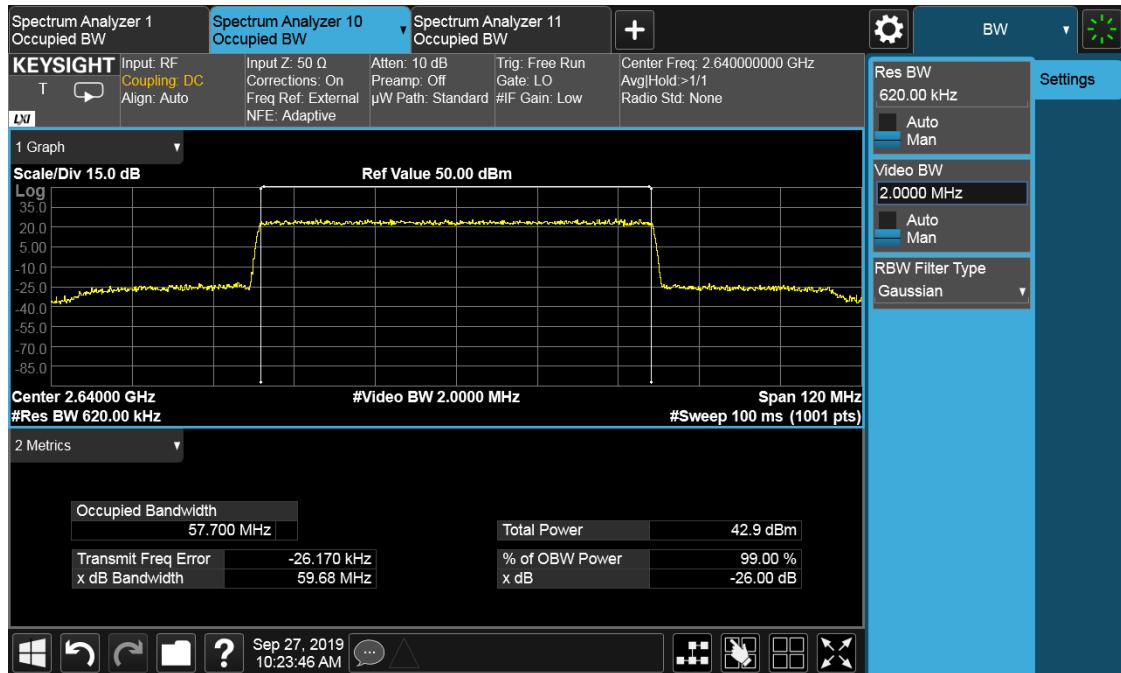
-26dBc Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
20	QPSK	60MHz	59.76	59.68	59.66
20	64QAM	60MHz	-	59.71	-
20	256QAM	60MHz	-	59.70	-

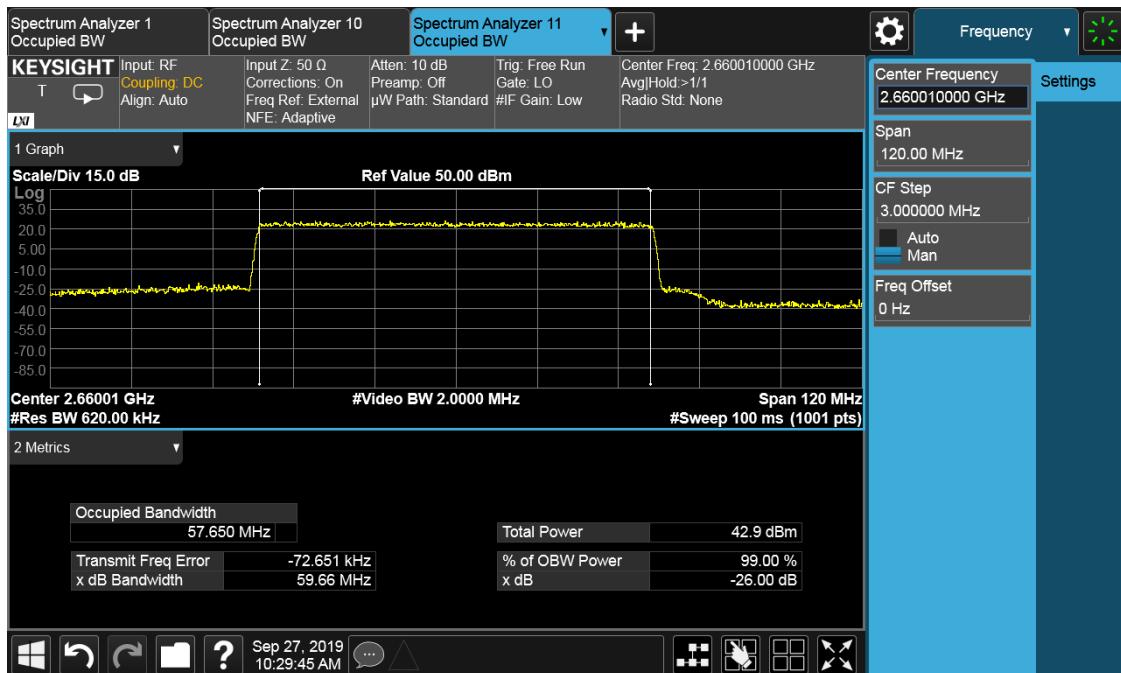
QPSK, 60MHz, Channel position B


TEST REPORT

QPSK, 60MHz, Channel position M

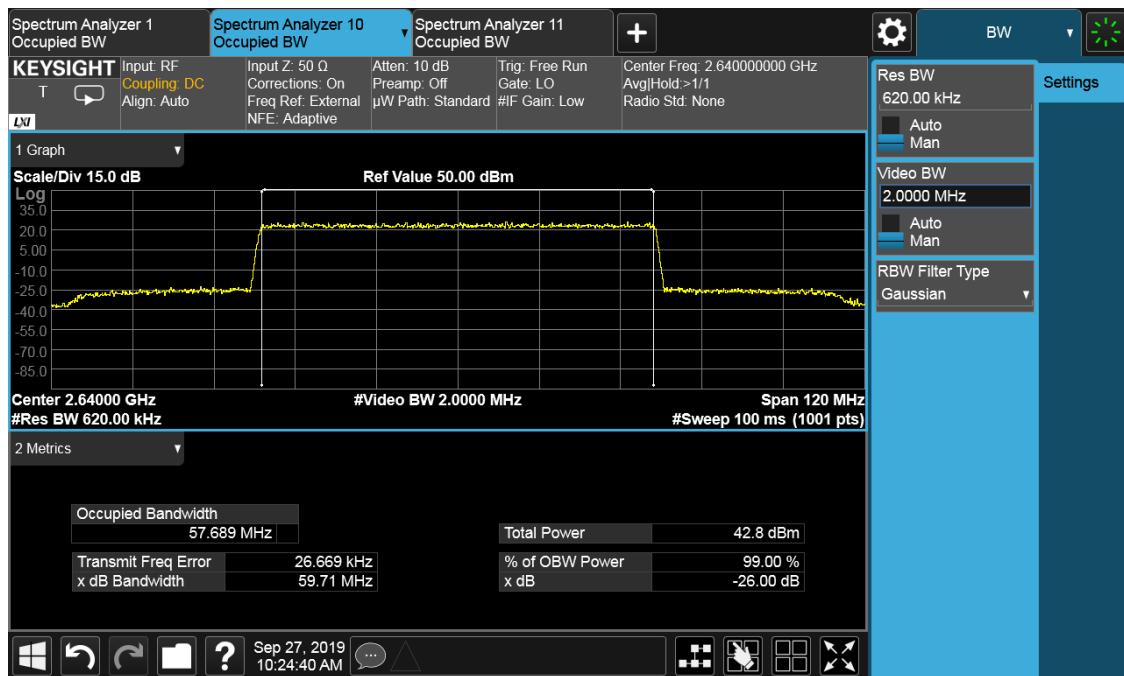


QPSK, 60MHz, Channel position T

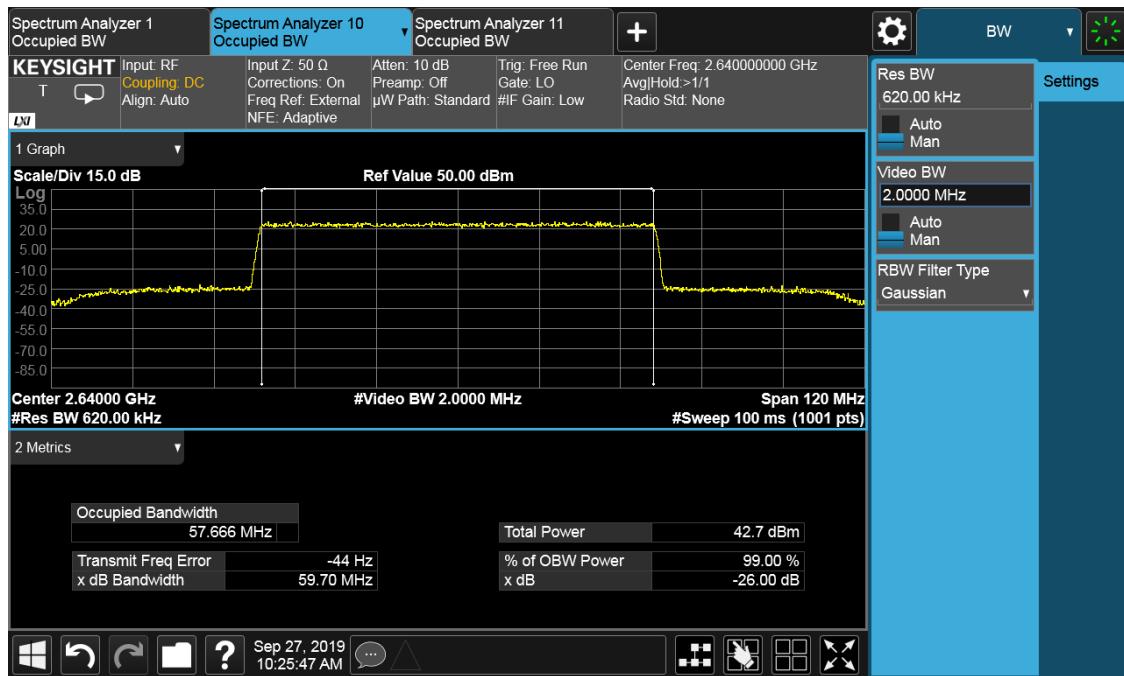


TEST REPORT

64QAM, 60MHz, Channel position M



256QAM, 60MHz, Channel position M



TEST REPORT

Configuration NR-MIMO-1C-80

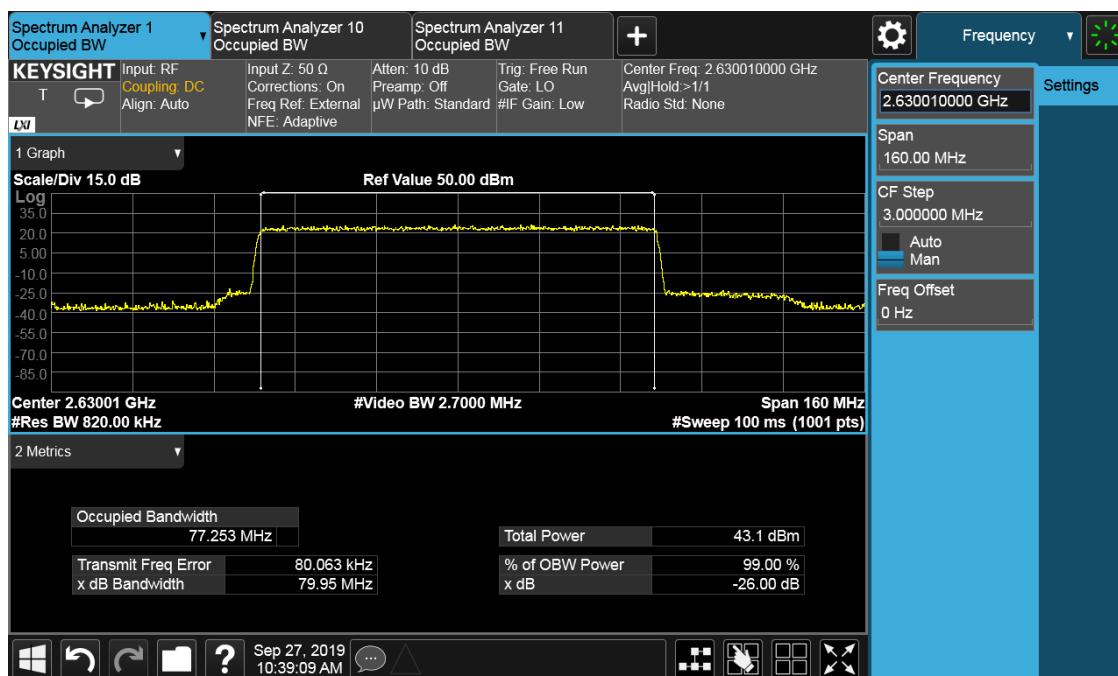
99% Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
20	QPSK	80MHz	77.253	77.287	77.234
20	64QAM	80MHz	-	77.252	-
20	256QAM	80MHz	-	77.192	-

-26dBc Occupied Bandwidth

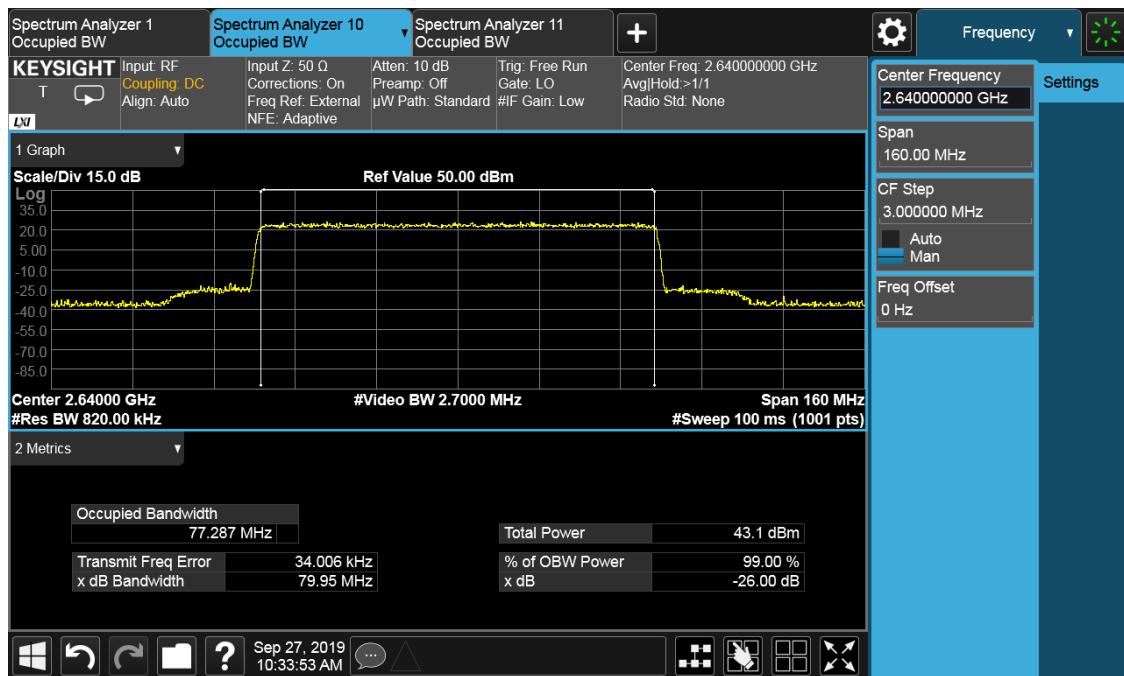
Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
20	QPSK	80MHz	79.95	79.95	79.96
20	64QAM	80MHz	-	79.92	-
20	256QAM	80MHz	-	79.95	-

QPSK, 80MHz, Channel position B

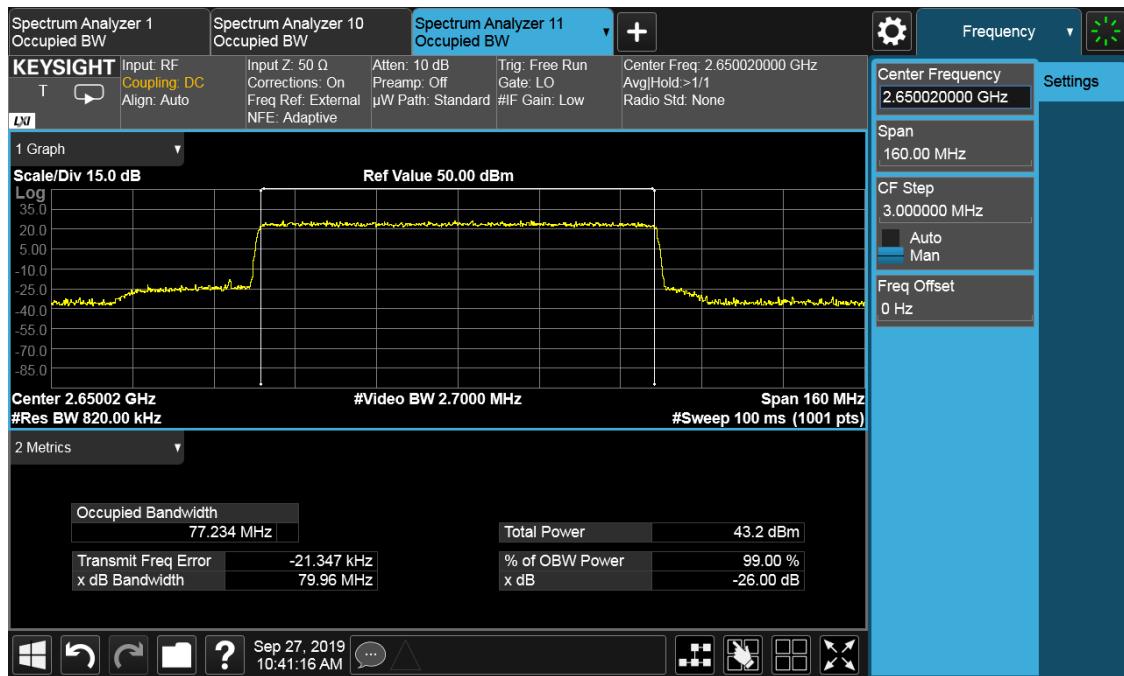


TEST REPORT

QPSK, 80MHz, Channel position M

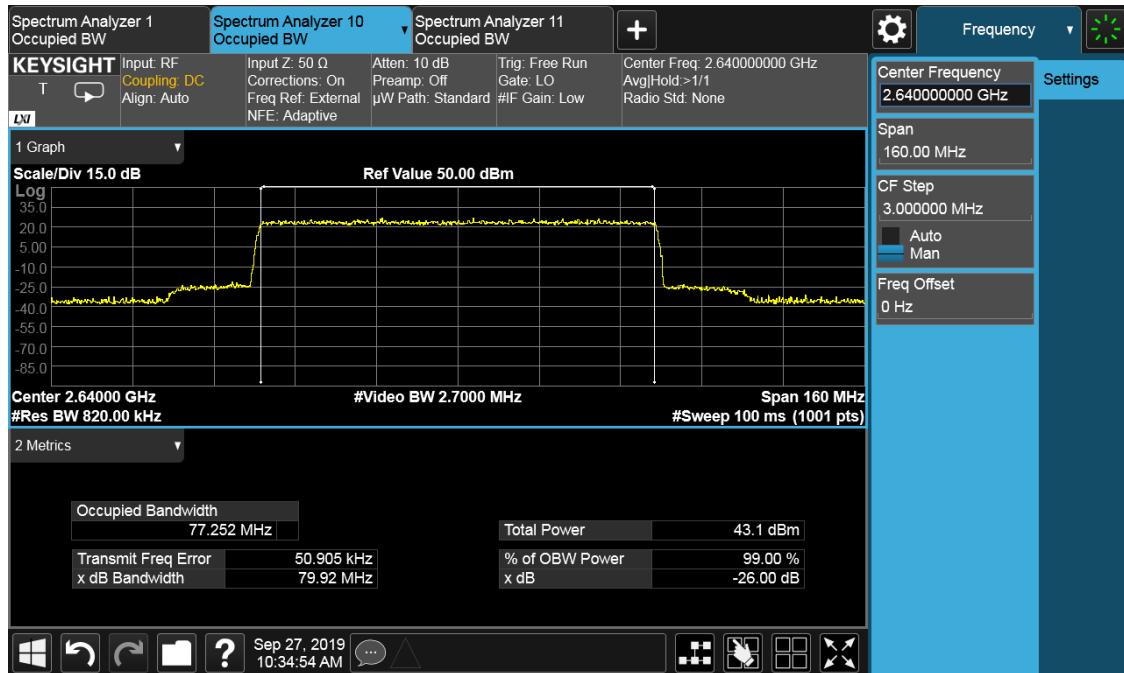


QPSK, 80MHz, Channel position T

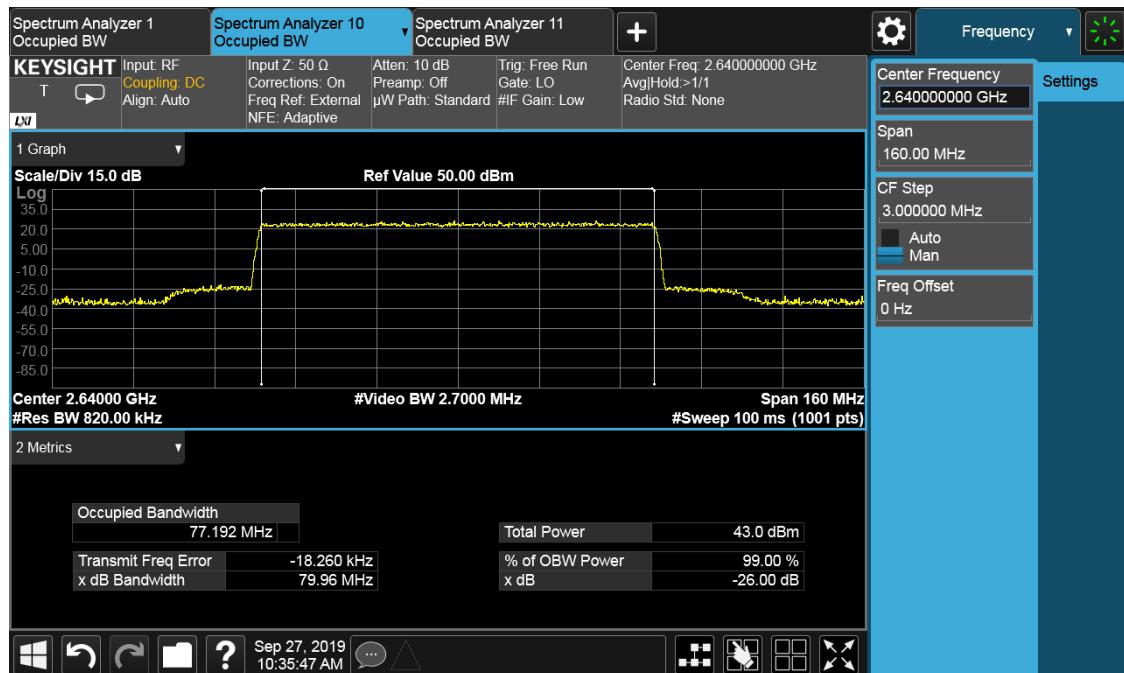


TEST REPORT

64QAM, 80MHz, Channel position M



256QAM, 80MHz, Channel position M



TEST REPORT

Configuration NR-MIMO-1C-90

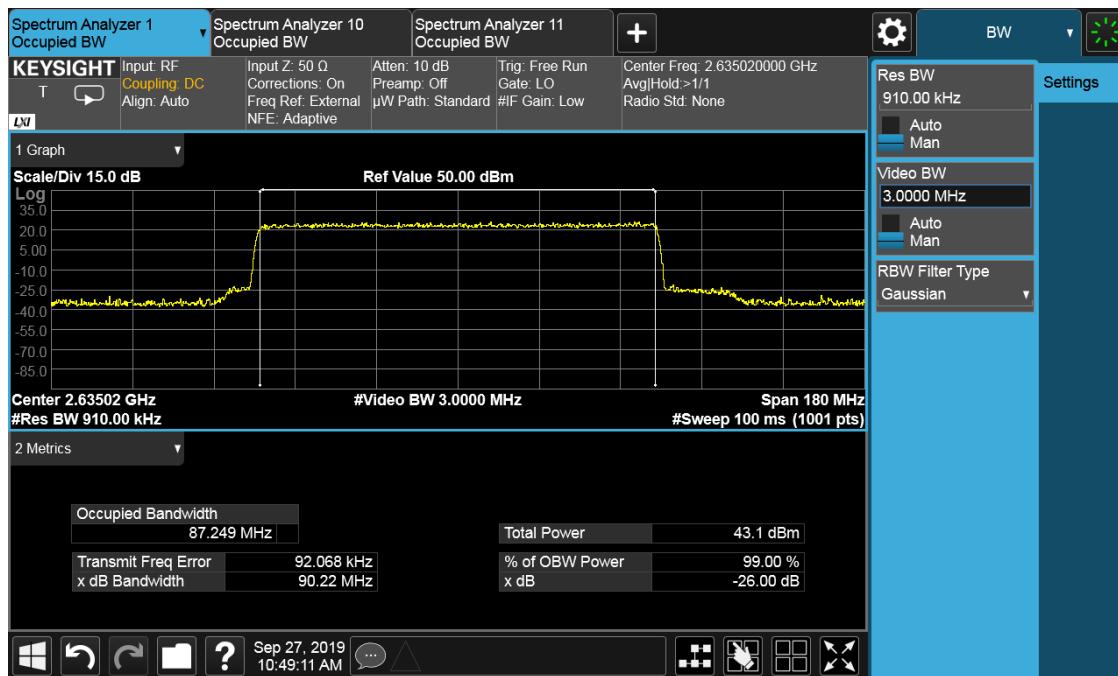
99% Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
20	QPSK	90MHz	87.249	87.279	87.283
20	64QAM	90MHz	-	87.172	-
20	256QAM	90MHz	-	87.254	-

-26dBc Occupied Bandwidth

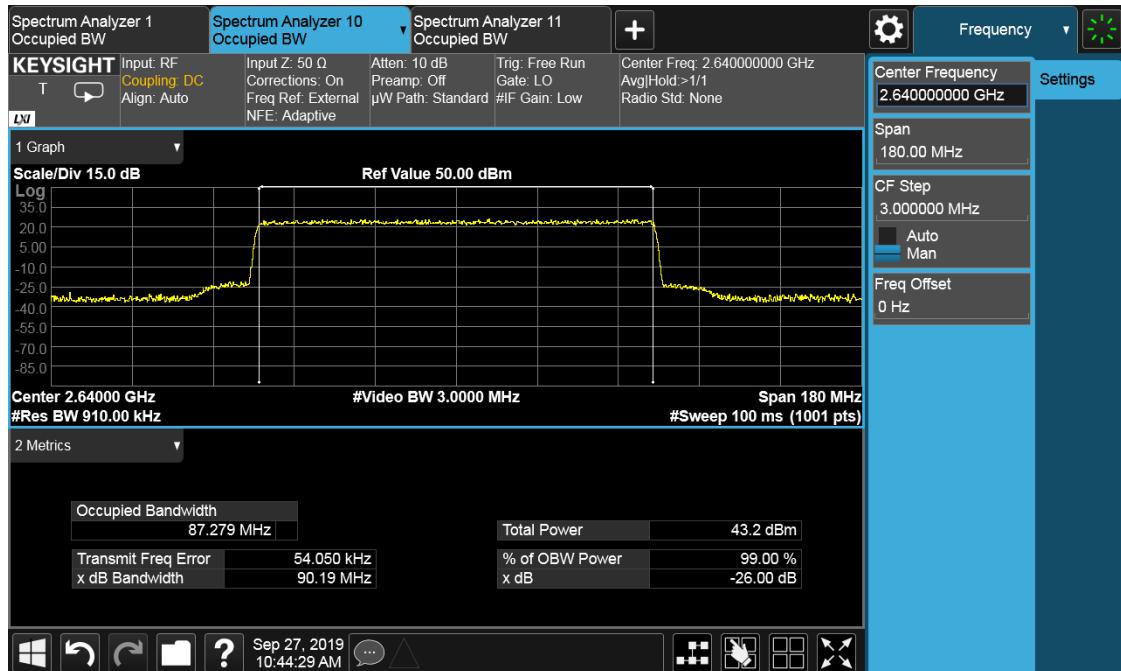
Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
20	QPSK	90MHz	90.22	90.19	90.20
20	64QAM	90MHz	-	90.26	-
20	256QAM	90MHz	-	90.23	-

QPSK, 90MHz, Channel position B

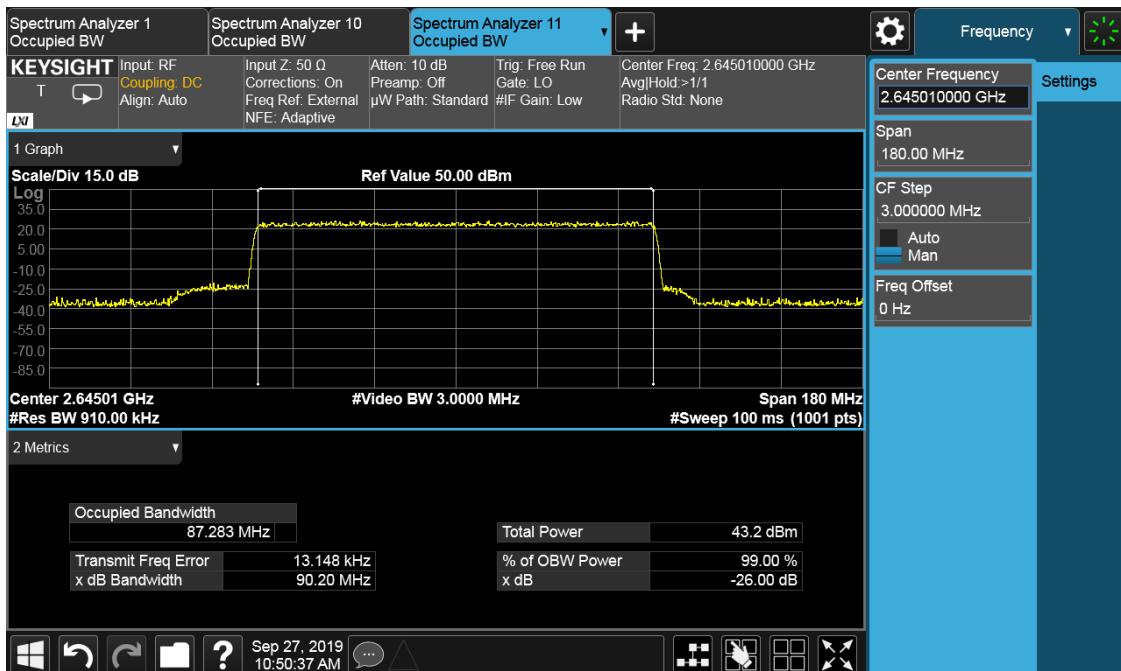


TEST REPORT

QPSK, 90MHz, Channel position M

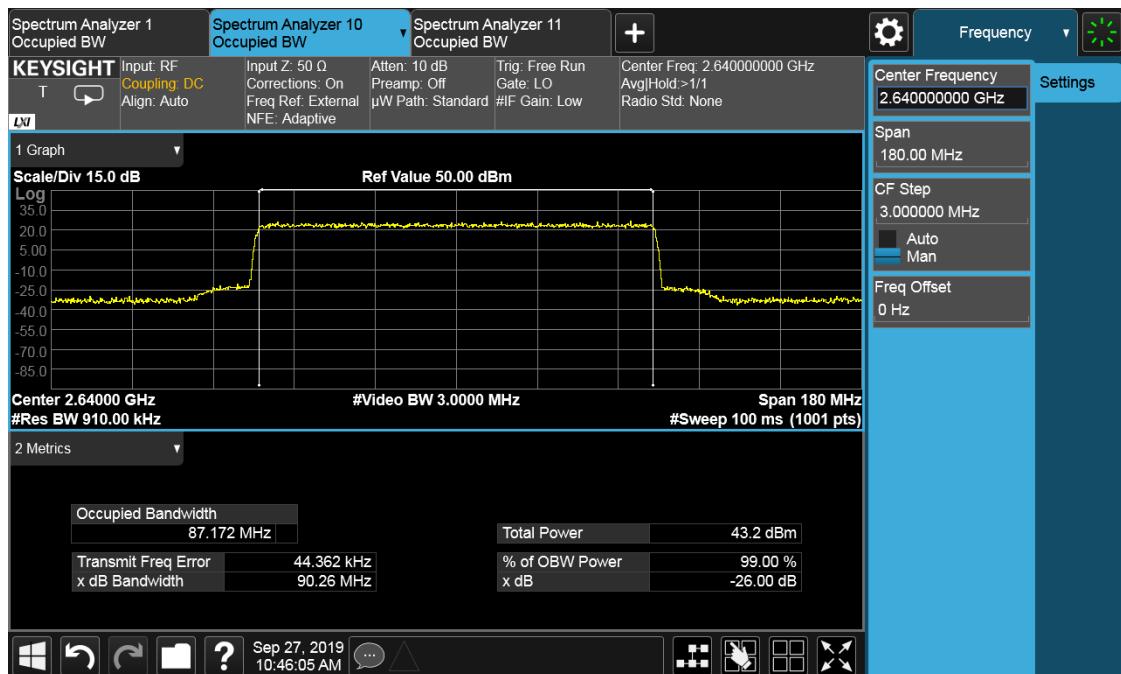


QPSK, 90MHz, Channel position T

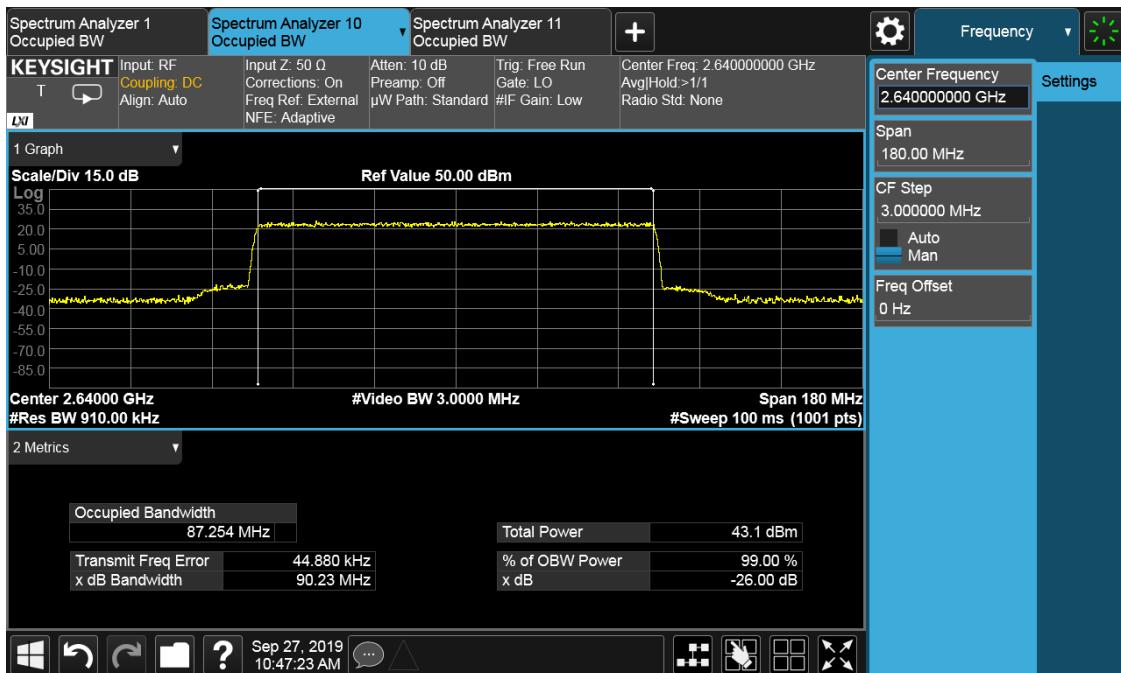


TEST REPORT

64QAM, 90MHz, Channel position M



256QAM, 90MHz, Channel position M



TEST REPORT

5 Unwanted Emissions at Band Edge

Test result: Pass

5.1 Limit

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10\log(P)$ dB.

5.2 Measurement Procedure

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10\log(P)$ dB.

For MIMO mode configurations, the limit was adjusted with a correction of -18.06dB [10Log(1/64)] by using the Measure and Add 10Log(N) dB technique according to KDB 662911 D01 Multiple Transmitter Output accounting for simultaneous transmission from antenna ports . Then the limit was adjusted to -31.06dBm.

In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed and a RBW of 1MHz for measurements of emissions > 1MHz away from the band edges.

Spectrum analyzer detector was set as RMS.

TEST REPORT

5.3 Measurement result

Configuration NR-MIMO-1C-20

Antenna Port	Channel Position	Modulation	Channel Bandwidth (MHz)	RBW (kHz)	Limit (dBm)
20	B	QPSK	20	200	-31.06
				1000	-31.06
20	T	QPSK	20	200	-31.06
				1000	-31.06

Channel Position B



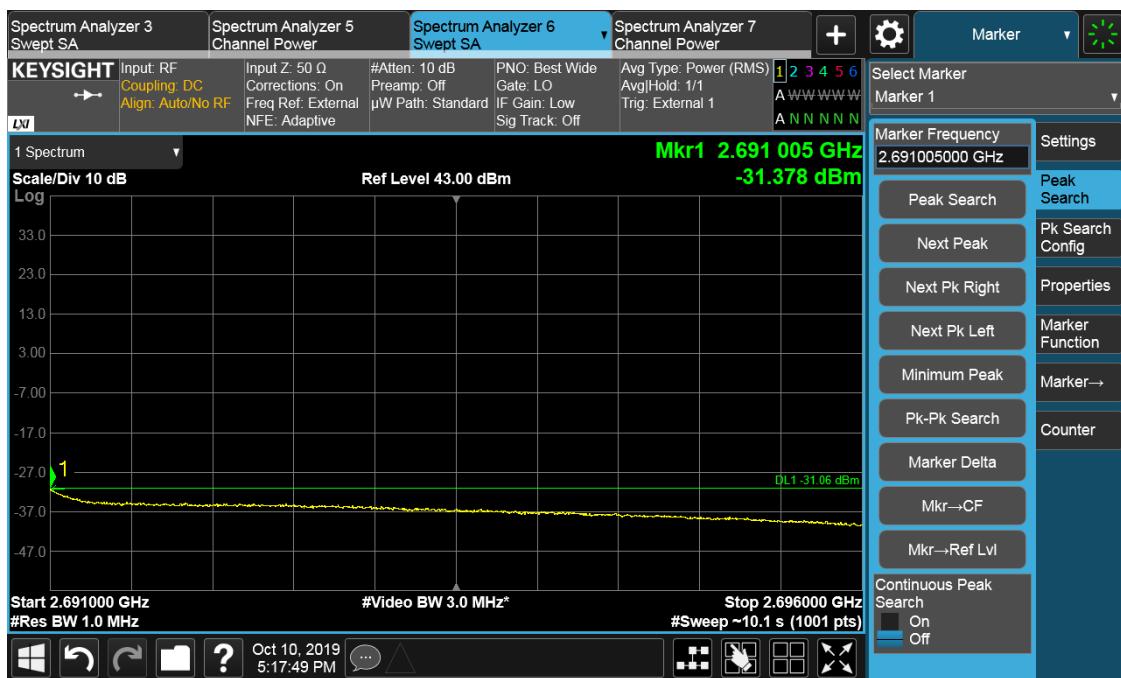
TEST REPORT



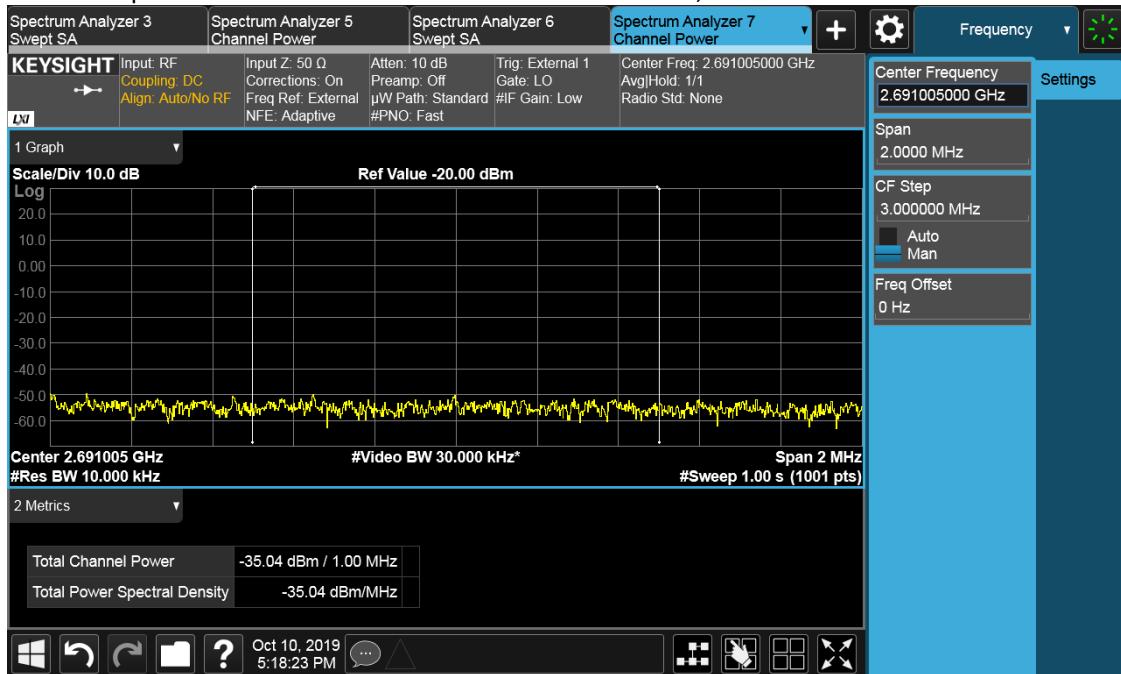
Channel Position T



TEST REPORT



The channel power of 1000kHz for 2691.005MHz is -35.04dBm, which is within the limit of -31.06dBm.



TEST REPORT
Configuration NR-MIMO-1C-30

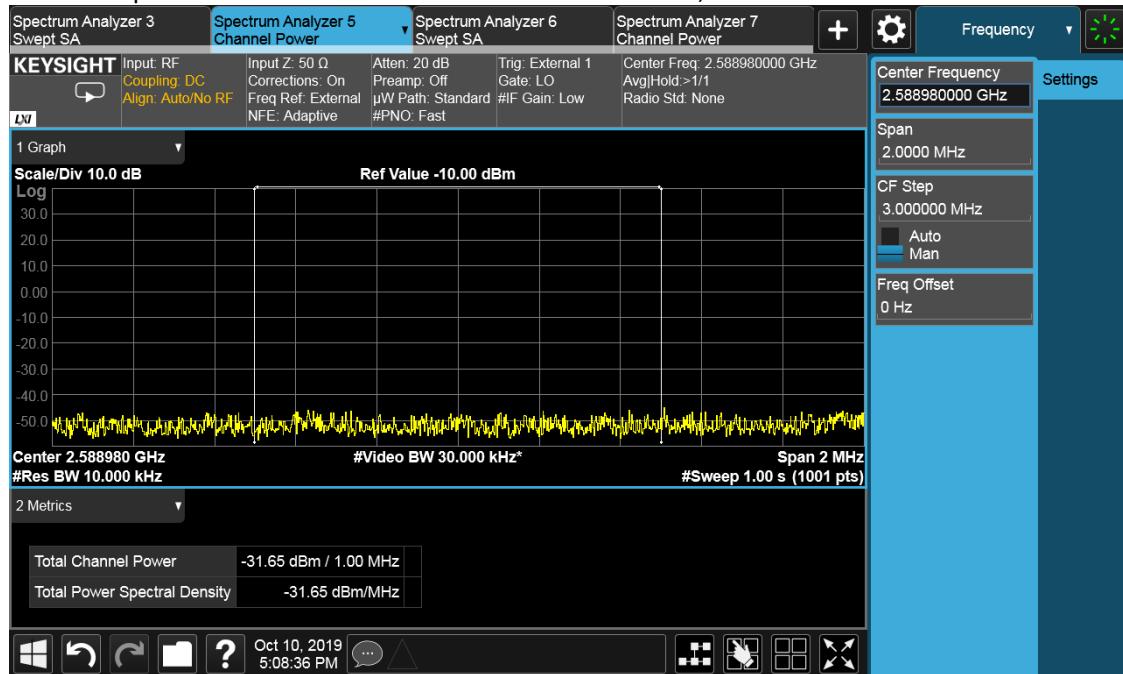
Antenna Port	Channel Position	Modulation	Channel Bandwidth (MHz)	RBW (kHz)	Limit (dBm)
20	B	QPSK	30	300	-31.06
				1000	-31.06
20	T	QPSK	30	300	-31.06
				1000	-31.06

Channel Position B

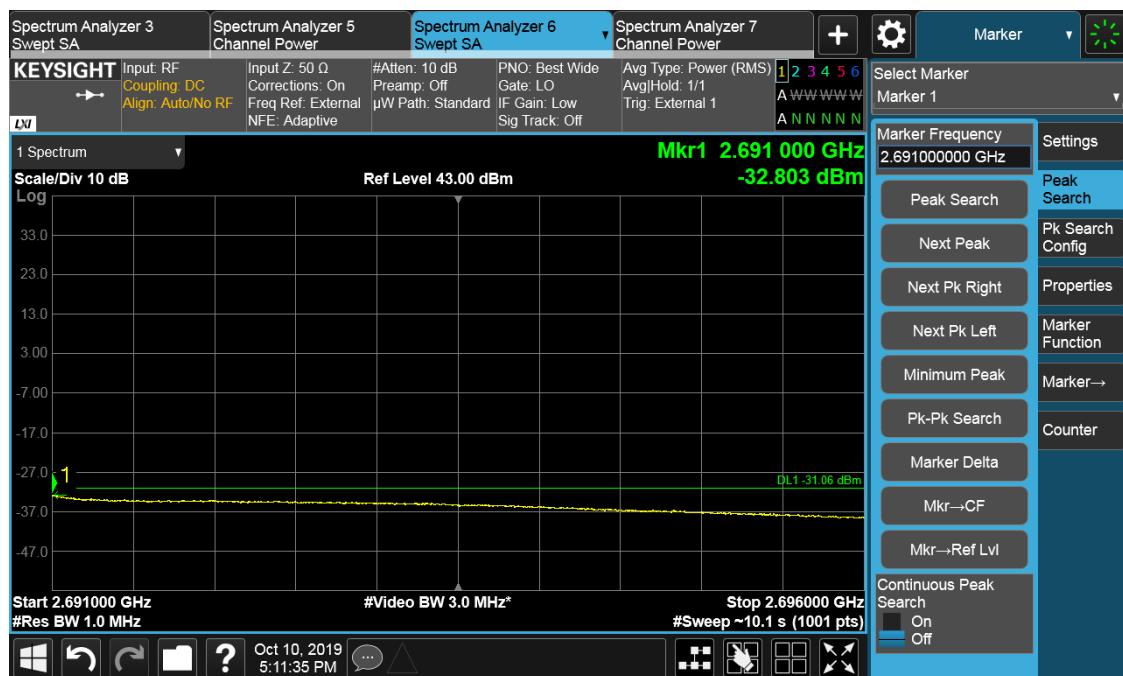
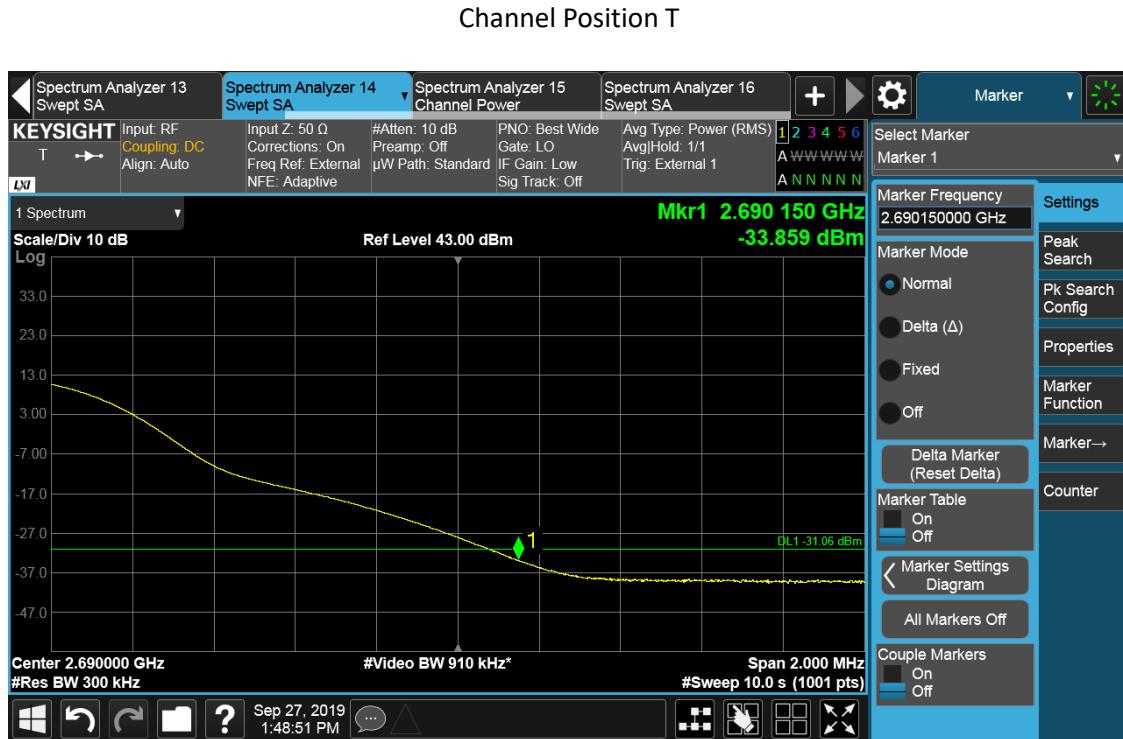

TEST REPORT



The channel power of 1000kHz for 2588.980MHz is -31.65dBm, which is within the limit of -31.06dBm.

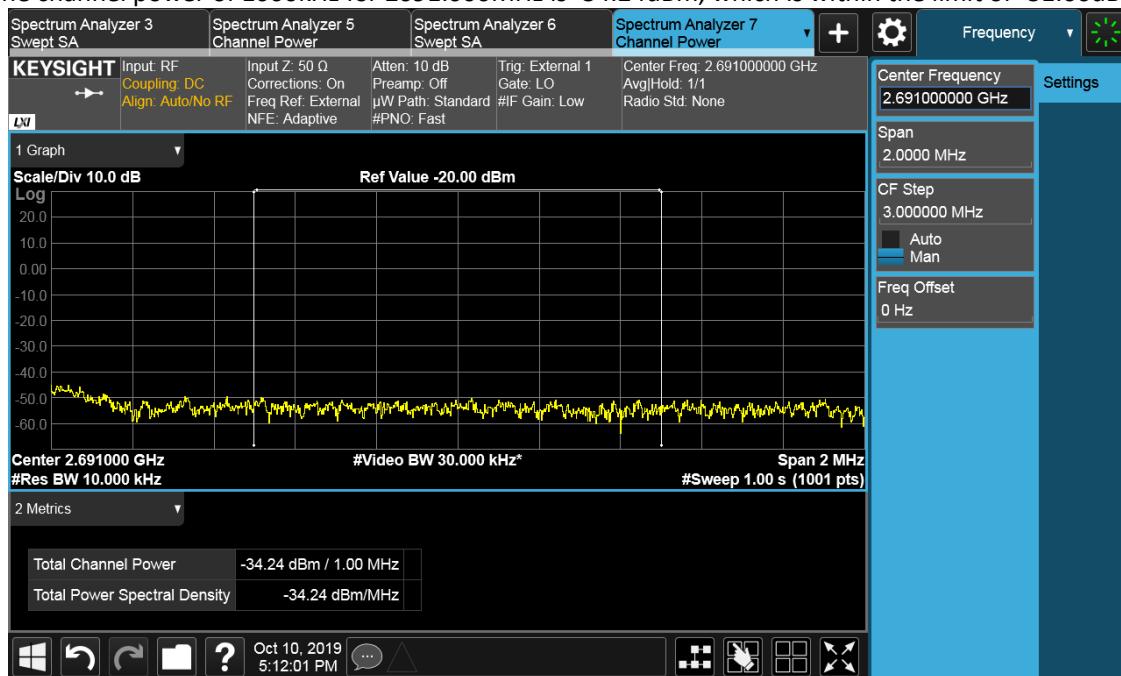


TEST REPORT



TEST REPORT

The channel power of 1000kHz for 2691.000MHz is -34.24dBm, which is within the limit of -31.06dBm.

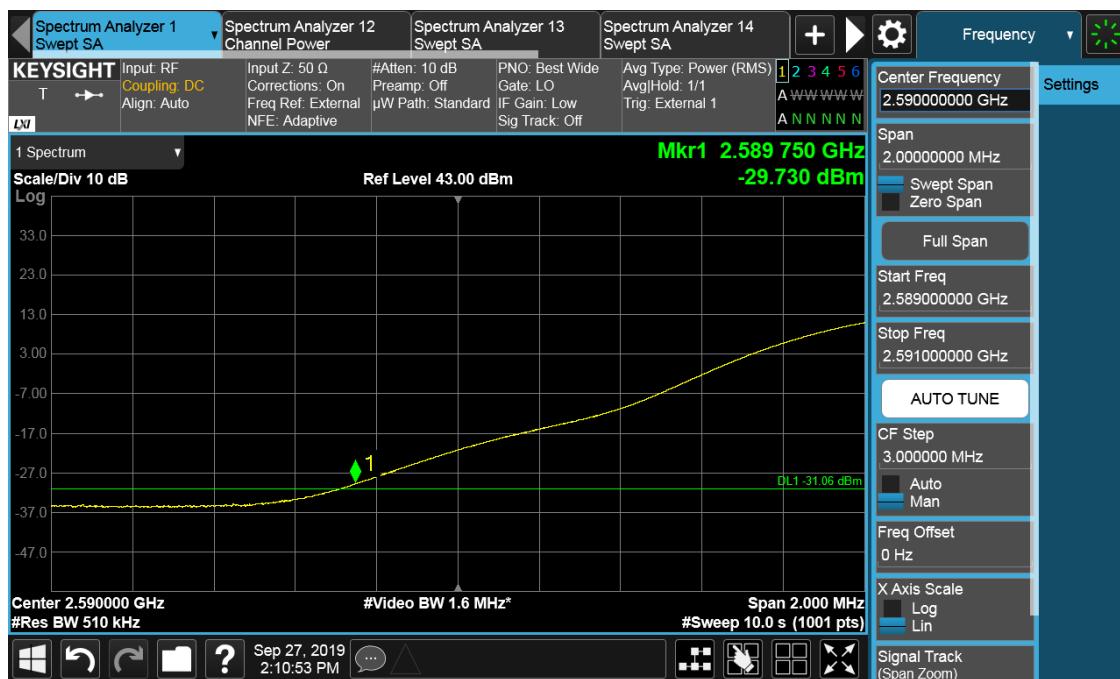


TEST REPORT

Configuration NR-MIMO-1C-50

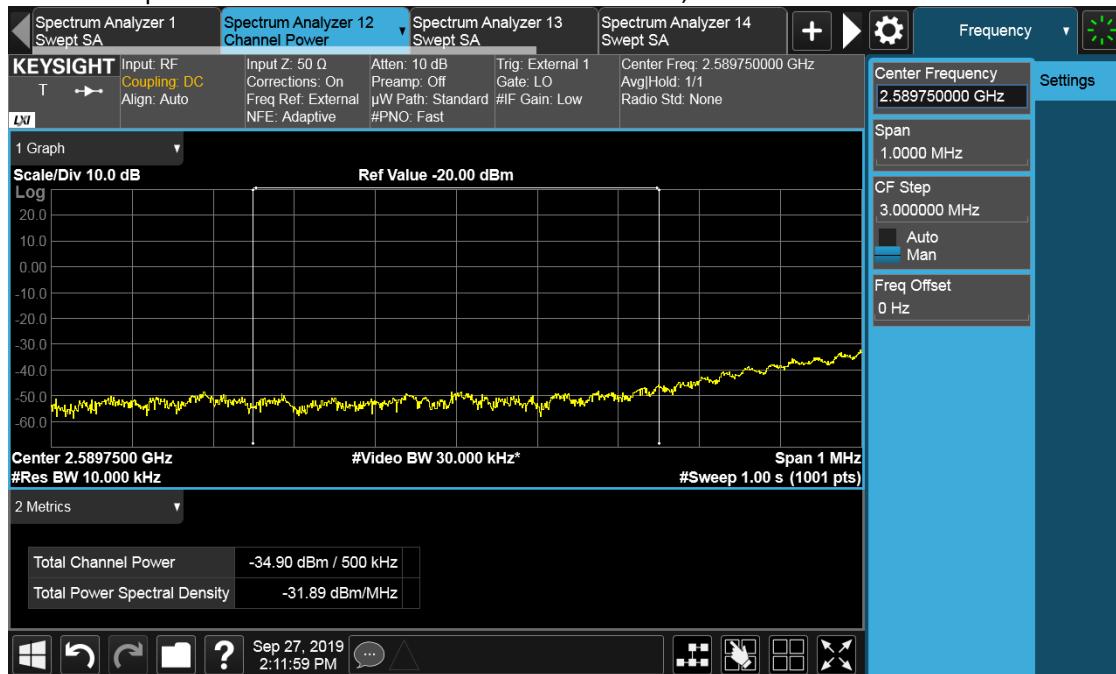
Antenna Port	Channel Position	Modulation	Channel Bandwidth (MHz)	RBW (kHz)	Limit (dBm)
20	B	QPSK	50	510	-31.06
				1000	-31.06
20	T	QPSK	50	510	-31.06
				1000	-31.06

Channel Position B



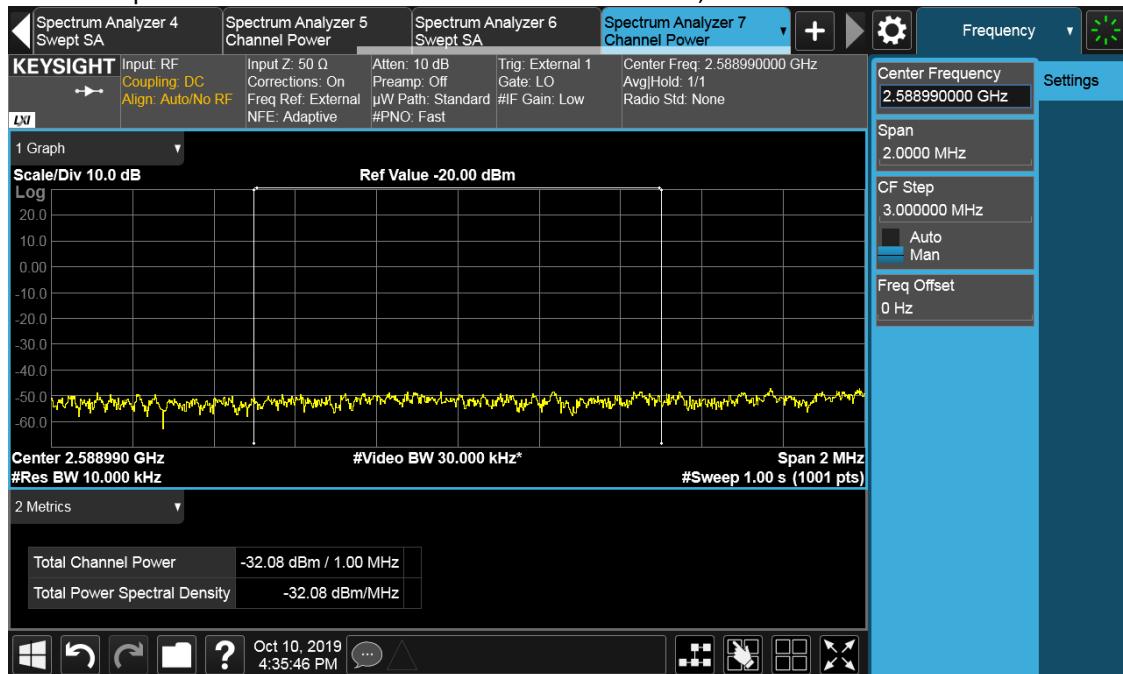
TEST REPORT

The channel power of 500kHz for 2589.75MHz is -34.90dBm, which is within the limit of -31.06dBm.



TEST REPORT

The channel power of 1000kHz for 2588.990MHz is -32.08dBm, which is within the limit of -31.06dBm.



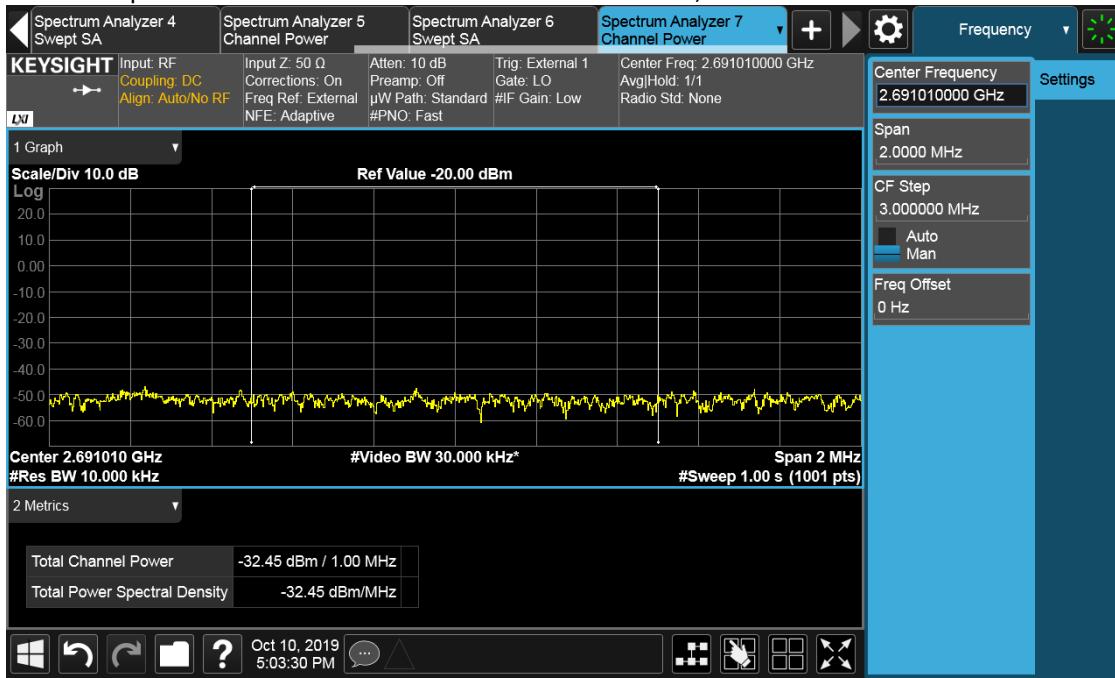
Channel Position T



TEST REPORT



The channel power of 1000kHz for 2691.010MHz is -32.45dBm, which is within the limit of -31.06dBm.



TEST REPORT

Configuration NR-MIMO-1C-60

Antenna Port	Channel Position	Modulation	Channel Bandwidth (MHz)	RBW (kHz)	Limit (dBm)
20	B	QPSK	60	620	-31.06
				1000	-31.06
20	T	QPSK	60	620	-31.06
				1000	-31.06

Channel Position B

