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Report On

FCC and IC Testing of the
Ericsson Radio 2203 B5 KRC 161 508/1 (850MHz) Remote Radio Unit
In accordance with FCC CFR 47 Part 22 and Industry Canada RSS-
132: Issue 3

COMMERCIAL-IN-CONFIDENCE

FCC ID: TA8AKRC161508-1

IC: 287AB-AS1615081

PREPARED BY

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DATED

01 April 2016

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April 2016

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SECTION 1

REPORT INFORMATION

1.1 REPORT DETAILS

The information contained in this report is intended to show verification of the Ericsson Radio 2203 B5 KRC 161 508/1 Remote Radio Unit to the requirements of FCC CFR 47 Part 2 and 22 and Industry Canada RSS-132.

Testing was carried out in support of an application for Grant of Radio 2203 B5 KRC 161 508/1 in WCDMA / LTE / WCDMA & LTE MSR mode.

Manufacturer	Ericsson AB
Address	Isafjordsgatan 10 SE-164 80 Stockholm Sweden
Product Name	Radio 2203 B5
Product Number	KRC 161 508/1
HVIN	AS1615081
Serial Number(s)	D822845958
PIS Version	CXP 901 7316/2 Rev R62DU
Hardware Version	R1B
Test Specification/Issue/Date	FCC CFR 47 Part 22: 2015 Industry Canada RSS-132 Issue 3: 2013
Start of Test	22 February 2016
Finish of Test	11 March 2016
Name of Engineer(s)	Yanze Rong
Related Document(s)	ANSI C63.4: 2014 ANSI/TIA-603-C-2004 FCC CFR 47 Part 2: 2015 Industry Canada RSS-GEN Issue 4: 2014 Industry Canada SRSP-503 Issue 7: 2008 KDB 971168 D01 v02r02 KDB 662911 D01 v02r01

This Report has been up issued to Issue 2 and should be read in place of Issue 1. This Report has been up issued to Issue 2 to correct the description of Test Firm registration number on page 11.

1.2 BRIEF SUMMARY OF RESULTS

A brief summary of results for each configuration, in accordance with FCC CFR 47 Part 2, Part 22 and Industry Canada RSS-132 is shown below.

Section	Spec Clause			Test Description	Result
	Part 2	Part 22	RSS 132		
2.1	2.1046	22.913 (a)	5.4	Maximum Output Power and Peak to Average Ratio – Conducted	Pass
2.2	2.1046	22.913 (a)	5.4	Maximum Output Power-Radiated	Pass
2.3	2.1049(h)	22.917 (b)	RSS-Gen 6.6	Occupied Bandwidth	Pass
2.4	2.1051	22.917 (b)	5.5	Spurious Emissions at Band Edge	Pass
2.5	2.1053	22.917 (a)	5.5	Radiated Spurious Emissions	Pass
2.6	2.1051	22.917 (a)	5.5	Conducted Spurious Emissions	Pass
2.7	2.1055	22.355	5.3	Frequency Stability	Pass
	-	-	5.6	Receiver Spurious Emission	N/A

N/A – Not Applicable

1.3 CONFIGURATION DESCRIPTION

Configuration Code	Carrier(s)	Configuration Description
W-SC	1C	WCDMA Single Antenna, Single Carrier
W-MC 1	2C	WCDMA Single Antenna, Multi Carrier x2
W-MC 2	4C	WCDMA Single Antenna, Multi Carrier x4
W-MIMO-SC	1C	WCDMA MIMO, Single Carrier
W-MIMO-MC 1	2C	WCDMA MIMO, Multi Carrier x2
W-MIMO-MC 2	4C	WCDMA MIMO, Multi Carrier x4
W-MIMO-MC 3	3C	WCDMA MIMO, Multi Carrier x3
L-MIMO-SC	1C	LTE MIMO, Single Carrier
L-MIMO-MC 1	2C	LTE MIMO, Multi Carrier x2
L-MIMO-MC 2	3C	LTE MIMO, Multi Carrier x3
W+L-MC 1	1W+1L	WCDMA+LTE Single Antenna, One Tx, 1WCDMA+1LTE
W+L-MC 2	3W+2L	WCDMA+LTE Single Antenna, One Tx, 3WCDMA+2LTE
W+L-MC 3	3W+1L	WCDMA+LTE Single Antenna, One Tx, 3WCDMA+1LTE
W+L-MC 4	2W+1L	WCDMA+LTE Single Antenna, One Tx, 2WCDMA+1LTE
W+L-MIMO-MC 1	1W+1L	WCDMA+LTE MIMO, 1WCDMA+1LTE
W+L-MIMO-MC 2	3W+2L	WCDMA+LTE MIMO, 3WCDMA+2LTE
W+L-MIMO-MC 3	3W+1L	WCDMA+LTE MIMO,3WCDMA+1LTE
W+L-MIMO-MC 4	2W+1L	WCDMA+LTE MIMO,2WCDMA+1LTE

The settings below were deemed representative for all traffic scenarios when settings with different modulations, channel bandwidths, number for carriers and RF configurations have been tested to find the worst case setting. The settings below were used for all measurements unless otherwise noted:

WCDMA:

Non-MIMO:

Single carrier TM1: 64 DPCHs at 30ksps (SF=128)

Multi carrier TM1 (x4): 32 DPCHs at 30ksps (SF=128) in each carrier

MIMO:

Single carrier TM5: 30 DPCHs at 30ksps (SF=128) and 8 HS-PDSCHs at 240 ksps (SF16)

Multi carrier TM5 (x4): 30 DPCHs at 30ksps (SF=128) and 8 HS-PDSCHs at 240 ksps (SF16)

MIMO:

Single carrier TM6: 30 DPCHs at 30ksps (SF=128) and 8 HS-PDSCHs at 240 ksps (SF16)

Multi carrier TM6 (x4): 30 DPCHs at 30ksps (SF=128) and 8 HS-PDSCHs at 240 ksps (SF16)

Channel Bandwidth: 5.0MHz and 4.2MHz

LTE:

MIMO mode sigle carrier: E-TM1.1

MIMO mode multi carrier (x2): E-TM1.1

MIMO mode multi carrier (x3): E-TM1.1

MIMO mode sigle carrier: E-TM3.2

MIMO mode multi carrier (x2): E-TM3.2

MIMO mode multi carrier (x3): E-TM3.2

MIMO mode sigle carrier: E-TM3.1

MIMO mode multi carrier (x2): E-TM3.1

MIMO mode multi carrier (x3): E-TM3.1

MIMO mode sigle carrier: E-TM3.1a

MIMO mode multi carrier (x2): E-TM3.1a

MIMO mode multi carrier (x3): E-TM3.1a

The EUT includes two TX/RX ports and it can be configured to transmit in MIMO mode for WCDMA or LTE carriers, and MIMO mode for WCDMA or LTE was used for measurements as the worst configuration.

The complete testing was performed with the EUT transmitting at maximum RF power unless otherwise stated.

For WCDMA or LTE single RAT (Radio Access Technology) MIMO mode, the maximum output power was tested on all TX/RX output connector RF A and B. All the other TX measurements of WCDMA or LTE single RAT MIMO mode and all the measurements of other Non-MIMO mode, were performed on the combined TX/RX output connector RF A of the EUT as the representative port.

1.4 DECLARATION OF BUILD STATUS

MAIN EUT	
MANUFACTURING DESCRIPTION	Remote Radio Unit
MANUFACTURER	Ericsson AB
PRODUCT NAME	Radio 2203 B5
PRODUCT NUMBER	KRC 161 508/1
HVIN	AS1615081
TRANSMITTER OPERATING RANGE	TX: 869 MHz - 894 MHz RX: 824 MHz - 849 MHz
MODULATIONS	WCDMA: QPSK, 16QAM, 64QAM LTE: QPSK, 16QAM, 64QAM, 256QAM
DESIGNATION OF EMISSION	WCDMA: 5M00F9W LTE: 1M40F9W, 3M00F9W, 5M00F9W, 10M0F9W
NUMBER OF CARRIERS	WCDMA: Maximum 4 carriers LTE: Maximum 3 carriers WCDMA<E MSR: Maximum 5 carriers
SUPPORTED CHANNEL BANDWIDTH CONFIGURATION	WCDMA: 4.2MHz to 5MHz (configurable in steps of 100/200kHz) LTE: 1.4MHz, 3MHz, 5MHz, 10MHz
OUTPUT POWER (RMS) (W or dBm)	Maximum 37dBm (5W) per port for all modes
OUTPUT POWER TOLERANCE	-2.0dB ~ +0.6dB
INSTANTANEOUS BANDWIDTH	25MHz for all modes
NUMBER OF ANTENNA PORTS	2 TX/RX ports
OPTIONAL ANTENNA TYPE	Integrated antenna KRE 101 2199/1, antenna gain: 6.8dBi External Omni antenna KRE 101 2233/1, antenna gain: 2dBi
FCC ID	TA8AKRC161508-1
IC	287AB-AS1615081
POWER SOURCE	36V DC
TECHNICAL DESCRIPTION (a brief description of the intended use and operation)	The equipment is the Remote Radio Part of WCDMA / LTE / WCDMA & LTE MSR Base Station.

Signature

Jiang Xiaoying

Date

23 February 2016

D of B S Serial No

75933780/01

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

1.5 PRODUCT INFORMATION

1.5.1 Technical Description

The Equipment Under Test (EUT) Radio 2203 B5 KRC 161 508/1 is an Ericsson Remote Radio Unit working in the public mobile service 850MHz band which provides communication connections to 850MHz network in WCDMA / LTE modes and WCDMA & LTE MSR modes.

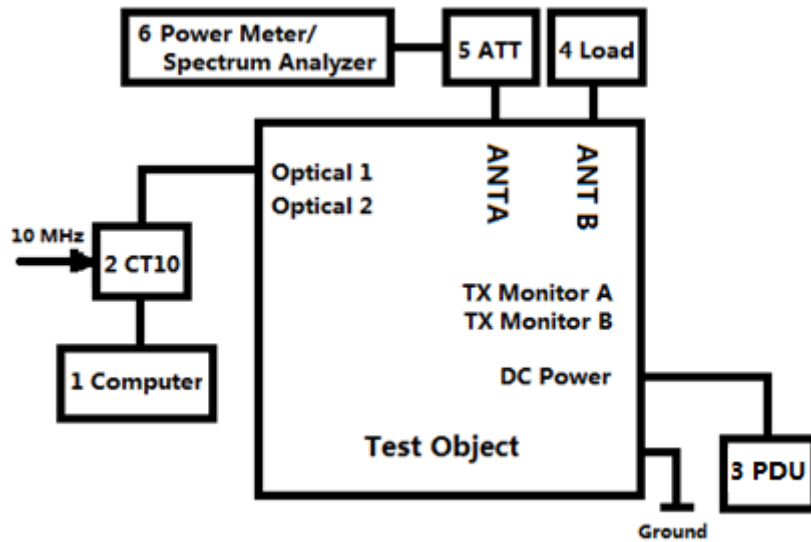
The Equipment Under Test (EUT) is shown in the photograph below. A full technical description can be found in the Manufacturer's documentation.



Equipment Under Test

1.6 TEST SETUP

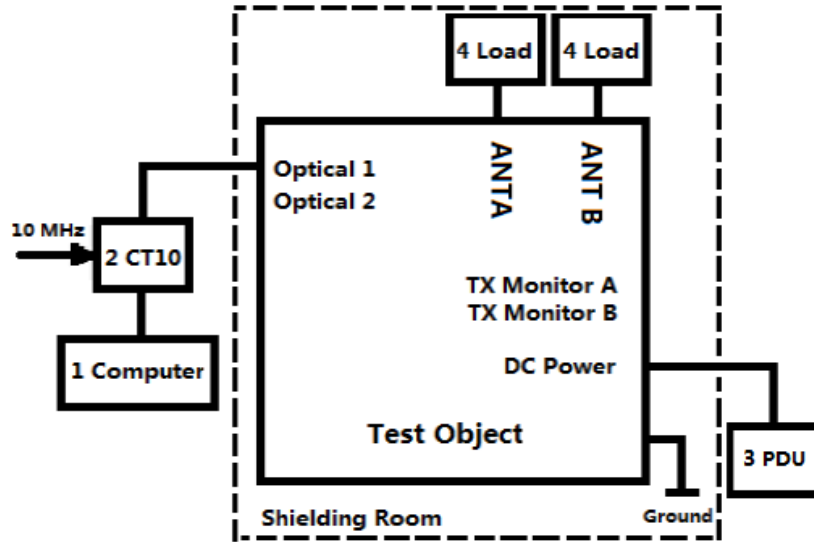
Test Setup, Conducted Measurement:



Product Name	Product Number	Version	Serial Number
Radio 2203 B5	KRC 161 508/1	R1B	D822845958

No.	Auxiliary Equipment	Part Number / Model Type	Version	Serial Number
1	Computer	HP EliteBook 8540w	--	CND1234694
2	CT10	LPC 102 487/1	R1C	T01F428608
3	Power Supply	DH1716-5D	--	BAMS-1001129716
4	Load	TF150	--	11081905
5	40dB Attenuator	66-40-33	--	CD4016
	40dB Attenuator	48-40-43-LIM	--	BR5020
6	Spectrum Analyzer	N9030A	--	MY54490502
	Power Meter	NRP2	--	104221
	Power Sensor	NRP-Z11	--	121216
	Power Sensor	NRP-Z51	--	102309

Test Setup, Radiated Measurement:



Product Name	Product Number	Version	Serial Number
Radio 2203 B5	KRC 161 508/1	R1B	D822845958

No.	Auxiliary Equipment	Part Number / Model Type	Version	Serial Number
1	Computer	HP EliteBook 8540w	--	CND1234694
2	CT10	LPC 102 487/1	R1C	T01F428608
3	Power Supply	DH1716-5D	--	BAMS-1001129716
4	Load	TF150	--	11081905
	Load	TF100	--	09121609

1.7 TEST CONDITIONS

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

All test cases were tested with the EUT supplied with 36V DC via PSU 48 05.

1.8 DEVIATION FROM THE STANDARD

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

1.9 MODIFICATION RECORD

Modification State 0 - No modifications were made to the EUT during testing.

1.10 ALTERNATIVE TEST SITE

Under our group UKAS Accreditation, TÜV SÜD Product Service conducted the following tests at Ericsson in Beijing, China:

- Maximum Output Power and Peak to Average Ratio – Conducted
- Occupied Bandwidth
- Band Edge
- Conducted Spurious Emissions
- Frequency Stability

Radiated Spurious Emissions and Maximum Output Power-Radiated tests have been performed under the following site registrations:

FCC 2.948-listing Registration Number 910917:

The State Radio Monitoring Centre, No.80 Beilishi Road, Xicheng District, Beijing, China

Industry Canada Accreditation 7308A-1:

The State Radio Monitoring Centre, No.80 Beilishi Road, Xicheng District, Beijing, China



Product Service

SECTION 2

TEST DETAILS

2.1 MAXIMUM OUTPUT POWER AND PEAK TO AVERAGE RATIO - CONDUCTED

2.1.1 Specification Reference

FCC CFR 47 Part 2, Clause 2.1046
FCC CFR 47 Part 22, Clause 22.913 (a)
Industry Canada RSS-132, Clause 5.4

2.1.2 Equipment Under Test

Radio 2203 B5, KRC 161 508/1, S/N: D822845958

2.1.3 Date of Test and Modification State

22 and 23 February 2016 - Modification State 0

2.1.4 Test Equipment Used

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

2.1.5 Environmental Conditions

Ambient Temperature	20.4 - 20.9°C
Relative Humidity	24.0 - 29.1%

2.1.6 Test Method

The test was applied in accordance with the test method requirements of FCC CFR 47 Part 22 and Industry Canada RSS-132.

Using a power meter and attenuator(s), the output power of the EUT was measured at the antenna terminal. The path loss between the EUT and the power sensor was measured and recorded for the test band. The path loss was entered as an offset into the Power Meter and Spectrum Analyzer.

The EUT was configured to transmit on maximum power on the configurations defined in the tables below. Since the EUT transmits on two antennas simultaneously in the same frequency range for MIMO devices, i.e., TX MIMO mode, using the Measure-and-Sum approach, the output power at both 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.

The RMS Power and Peak to Average Ratio was measured and recorded with the results being compared with the limits.

2.1.7 Test Results

Configuration W-SC

Maximum Output Power 37.0dBm per port

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B 871.4MHz		Channel Position M 881.4MHz		Channel Position T 891.6MHz	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	QPSK / 5.0 MHz	37.14	7.31	37.16	7.29	37.08	7.37

Configuration W-MC 1 (2C)

Maximum Output Power 37.0dBm per port

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW} 871.4MHz + 891.4MHz		Channel Position M _{RFBW} -		Channel Position T _{RFBW} 871.6MHz + 891.6MHz	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	QPSK / 5.0 MHz	36.76	-	-	-	36.75	-

Configuration W-MC 2 (4C)

Maximum Output Power 37.0dBm per port

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B 871.4MHz + 876.4MHz + 886.4MHz + 891.4MHz		Channel Position M -		Channel Position T 871.6MHz + 876.6MHz + 886.6MHz + 891.6MHz	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	QPSK / 5.0 MHz	36.72	-	-	-	36.72	-

Configuration W-MIMO-SC

Maximum Output Power 37.0dBm per port

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B 871.4MHz		Channel Position M 881.4MHz		Channel Position T 891.6MHz	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	16QAM / 5.0 MHz	37.14	7.29	37.18	7.25	37.09	7.31
B		37.15	7.27	37.15	7.27	37.06	7.31
Total		40.16	-	40.18	-	40.09	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B 871.4MHz		Channel Position M 881.4MHz		Channel Position T 891.6MHz	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	64QAM / 5.0 MHz	37.13	7.28	37.17	7.26	37.09	7.30
B		37.15	7.28	37.16	7.27	37.05	7.32
Total		40.15	-	40.18	-	40.08	-

Configuration W-MIMO-MC 1 (2C)

Maximum Output Power 37.0dBm per port

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW} 871.4MHz + 891.4MHz		Channel Position M _{RFBW} -		Channel Position T _{RFBW} 871.6MHz + 891.6MHz	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	16QAM / 5.0 MHz	36.75	-	-	-	36.74	-
B		36.69	-	-	-	36.70	-
Total		39.73	-	-	-	39.73	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW} 871.4MHz + 891.4MHz		Channel Position M _{RFBW} -		Channel Position T _{RFBW} 871.6MHz + 891.6MHz	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	64QAM / 5.0 MHz	36.77	-	-	-	36.77	-
B		36.74	-	-	-	36.69	-
Total		39.77	-	-	-	39.74	-

Configuration W-MIMO-MC 2 (4C)

Maximum Output Power 37.0dBm per port

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW} 871.4MHz + 876.4MHz + 886.4MHz + 891.4MHz		Channel Position M _{RFBW} -		Channel Position T _{RFBW} 871.6MHz + 876.6MHz + 886.6MHz + 891.6MHz	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	16QAM / 5.0 MHz	36.74	-	-	-	36.74	-
B		36.72	-	-	-	36.69	-
Total		39.74	-	-	-	39.73	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW} 871.4MHz + 876.4MHz + 886.4MHz + 891.4MHz		Channel Position M _{RFBW} -		Channel Position T _{RFBW} 871.6MHz + 876.6MHz + 886.6MHz + 891.6MHz	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	64QAM / 5.0 MHz	36.73	-	-	-	36.75	-
B		36.72	-	-	-	36.70	-
Total		39.74	-	-	-	39.74	-

Configuration L-MIMO-SC

Maximum Output Power 37.0dBm per port

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B 869.7MHz		Channel Position M 881.5MHz		Channel Position T 893.3MHz	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	QPSK / 1.4 MHz	36.85	7.17	36.98	7.17	36.63	7.21
B		36.80	7.16	36.91	7.15	36.54	7.17
Total		39.84	-	39.96	-	39.60	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B 869.7MHz		Channel Position M 881.5MHz		Channel Position T 893.3MHz	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	16QAM / 1.4 MHz	-	-	37.00	7.17	-	-
B		-	-	36.92	7.13	-	-
Total		-	-	39.97	-	-	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B 869.7MHz		Channel Position M 881.5MHz		Channel Position T 893.3MHz	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	64QAM / 1.4 MHz	-	-	36.95	7.22	-	-
B		-	-	36.85	7.16	-	-
Total		-	-	39.91	-	-	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B 869.7MHz		Channel Position M 881.5MHz		Channel Position T 893.3MHz	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	256QAM / 1.4 MHz	-	-	37.01	7.19	-	-
B		-	-	36.86	7.18	-	-
Total		-	-	39.95	-	-	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B 870.5MHz		Channel Position M 881.5MHz		Channel Position T 892.5MHz	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	QPSK / 3.0 MHz	-	-	37.02	7.09	-	-
B		-	-	36.90	7.08	-	-
Total		-	-	39.97	-	-	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B 870.5MHz		Channel Position M 881.5MHz		Channel Position T 892.5MHz	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	16QAM / 3.0 MHz	-	-	37.00	7.09	-	-
B		-	-	36.91	7.08	-	-
Total		-	-	39.97	-	-	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B 870.5MHz		Channel Position M 881.5MHz		Channel Position T 892.5MHz	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	64QAM / 3.0 MHz	-	-	37.00	7.09	-	-
B		-	-	36.91	7.12	-	-
Total		-	-	39.97	-	-	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B 870.5MHz		Channel Position M 881.5MHz		Channel Position T 892.5MHz	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	256QAM / 3.0 MHz	-	-	37.00	7.11	-	-
B		-	-	36.88	7.11	-	-
Total		-	-	39.95	-	-	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B 871.5MHz		Channel Position M 881.5MHz		Channel Position T 891.5MHz	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	QPSK / 5.0 MHz	-	-	37.01	7.08	-	-
B		-	-	36.89	7.10	-	-
Total		-	-	39.96	-	-	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B 871.5MHz		Channel Position M 881.5MHz		Channel Position T 891.5MHz	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	16QAM / 5.0 MHz	-	-	37.02	7.08	-	-
B		-	-	36.89	7.10	-	-
Total		-	-	39.97	-	-	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B 871.5MHz		Channel Position M 881.5MHz		Channel Position T 891.5MHz	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	64QAM / 5.0 MHz	-	-	37.00	7.08	-	-
B		-	-	36.89	7.11	-	-
Total		-	-	39.96	-	-	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B 871.5MHz		Channel Position M 881.5MHz		Channel Position T 891.5MHz	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	256QAM / 5.0 MHz	-	-	36.99	7.10	-	-
B		-	-	36.88	7.12	-	-
Total		-	-	39.95	-	-	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B 874.0MHz		Channel Position M 881.5MHz		Channel Position T 889.0MHz	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	QPSK / 10.0 MHz	37.01	7.15	37.01	7.09	37.00	7.27
B		36.93	7.17	36.89	7.10	36.88	7.28
Total		39.98	-	39.96	-	39.95	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B 874.0MHz		Channel Position M 881.5MHz		Channel Position T 889.0MHz	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	16QAM / 10.0 MHz	-	-	36.98	7.09	-	-
B		-	-	36.88	7.10	-	-
Total		-	-	39.94	-	-	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B 874.0MHz		Channel Position M 881.5MHz		Channel Position T 889.0MHz	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	64QAM / 10.0 MHz	-	-	36.99	7.09	-	-
B		-	-	36.89	7.09	-	-
Total		-	-	39.95	-	-	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B 874.0MHz		Channel Position M 881.5MHz		Channel Position T 889.0MHz	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	256QAM / 10.0 MHz	-	-	37.00	7.09	-	-
B		-	-	36.88	7.10	-	-
Total		-	-	39.95	-	-	-

Configuration L-MIMO-MC 1 (2C)

Maximum Output Power 37.0dBm per port

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW}		Channel Position M _{RFBW}		Channel Position T _{RFBW}	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	QPSK / 1.4 MHz	-	-	36.40	-	-	-
B		-	-	36.31	-	-	-
Total		-	-	39.37	-	-	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW}		Channel Position M _{RFBW}		Channel Position T _{RFBW}	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	16QAM / 1.4 MHz	-	-	36.40	-	-	-
B		-	-	36.29	-	-	-
Total		-	-	39.36	-	-	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW}		Channel Position M _{RFBW}		Channel Position T _{RFBW}	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	64QAM / 1.4 MHz	-	-	36.37	-	-	-
B		-	-	36.30	-	-	-
Total		-	-	39.35	-	-	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW}		Channel Position M _{RFBW}		Channel Position T _{RFBW}	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	256QAM / 1.4 MHz	-	-	36.38	-	-	-
B		-	-	36.29	-	-	-
Total		-	-	39.35	-	-	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW}		Channel Position M _{RFBW}		Channel Position T _{RFBW}	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	QPSK / 3.0 MHz	-	-	36.42	-	-	-
B		-	-	36.32	-	-	-
Total		-	-	39.38	-	-	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW}		Channel Position M _{RFBW}		Channel Position T _{RFBW}	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	16QAM / 3.0 MHz	-	-	36.41	-	-	-
B		-	-	36.31	-	-	-
Total		-	-	39.37	-	-	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW}		Channel Position M _{RFBW}		Channel Position T _{RFBW}	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	64QAM / 3.0 MHz	-	-	36.40	-	-	-
B		-	-	36.31	-	-	-
Total		-	-	39.37	-	-	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW}		Channel Position M _{RFBW}		Channel Position T _{RFBW}	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	256QAM / 3.0 MHz	-	-	36.39	-	-	-
B		-	-	36.30	-	-	-
Total		-	-	39.36	-	-	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW}		Channel Position M _{RFBW}		Channel Position T _{RFBW}	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	QPSK / 5.0 MHz	-	-	36.56	-	-	-
B		-	-	36.46	-	-	-
Total		-	-	39.52	-	-	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW}		Channel Position M _{RFBW}		Channel Position T _{RFBW}	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	16QAM / 5.0 MHz	-	-	36.57	-	-	-
B		-	-	36.46	-	-	-
Total		-	-	39.53	-	-	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW}		Channel Position M _{RFBW}		Channel Position T _{RFBW}	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	64QAM / 5.0 MHz	-	-	36.58	-	-	-
B		-	-	36.45	-	-	-
Total		-	-	39.53	-	-	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW}		Channel Position M _{RFBW}		Channel Position T _{RFBW}	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	256QAM / 5.0 MHz	-	-	36.56	-	-	-
B		-	-	36.45	-	-	-
Total		-	-	39.52	-	-	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW}		Channel Position M _{RFBW}		Channel Position T _{RFBW}	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	QPSK / 10.0 MHz	-	-	36.78	-	-	-
B		-	-	36.67	-	-	-
Total		-	-	39.74	-	-	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW}		Channel Position M _{RFBW}		Channel Position T _{RFBW}	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	16QAM / 10.0 MHz	-	-	36.76	-	-	-
B		-	-	36.65	-	-	-
Total		-	-	39.72	-	-	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW}		Channel Position M _{RFBW}		Channel Position T _{RFBW}	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	64QAM / 10.0 MHz	-	-	36.74	-	-	-
B		-	-	36.63	-	-	-
Total		-	-	39.70	-	-	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW}		Channel Position M _{RFBW}		Channel Position T _{RFBW}	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	256QAM / 10.0 MHz	-	-	36.76	-	-	-
B		-	-	36.63	-	-	-
Total		-	-	39.71	-	-	-

Configuration L-MIMO-MC 2 (3C)

Maximum Output Power 37.0dBm per port

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW}		Channel Position M _{RFBW}		Channel Position T _{RFBW}	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	QPSK / 1.4 MHz	-	-	36.18	-	-	-
B		-	-	36.05	-	-	-
Total		-	-	39.13	-	-	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW}		Channel Position M _{RFBW}		Channel Position T _{RFBW}	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	16QAM / 1.4 MHz	-	-	36.20	-	-	-
B		-	-	36.05	-	-	-
Total		-	-	39.14	-	-	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW}		Channel Position M _{RFBW}		Channel Position T _{RFBW}	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	64QAM / 1.4 MHz	-	-	36.16	-	-	-
B		-	-	36.03	-	-	-
Total		-	-	39.11	-	-	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW}		Channel Position M _{RFBW}		Channel Position T _{RFBW}	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	256QAM / 1.4 MHz	-	-	36.15	-	-	-
B		-	-	36.02	-	-	-
Total		-	-	39.10	-	-	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW}		Channel Position M _{RFBW}		Channel Position T _{RFBW}	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	QPSK / 3.0 MHz	-	-	36.47	-	-	-
B		-	-	36.34	-	-	-
Total		-	-	39.42	-	-	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW}		Channel Position M _{RFBW}		Channel Position T _{RFBW}	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	16QAM / 3.0 MHz	-	-	36.45	-	-	-
B		-	-	36.36	-	-	-
Total		-	-	39.42	-	-	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW}		Channel Position M _{RFBW}		Channel Position T _{RFBW}	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	64QAM / 3.0 MHz	-	-	36.46	-	-	-
B		-	-	36.33	-	-	-
Total		-	-	39.41	-	-	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW}		Channel Position M _{RFBW}		Channel Position T _{RFBW}	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	256QAM / 3.0 MHz	-	-	36.45	-	-	-
B		-	-	36.31	-	-	-
Total		-	-	39.39	-	-	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW}		Channel Position M _{RFBW}		Channel Position T _{RFBW}	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	QPSK / 5.0 MHz	-	-	36.64	-	-	-
B		-	-	36.50	-	-	-
Total		-	-	39.58	-	-	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW}		Channel Position M _{RFBW}		Channel Position T _{RFBW}	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	16QAM / 5.0 MHz	-	-	36.62	-	-	-
B		-	-	36.49	-	-	-
Total		-	-	39.57	-	-	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW}		Channel Position M _{RFBW}		Channel Position T _{RFBW}	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	64QAM / 5.0 MHz	-	-	36.62	-	-	-
B		-	-	36.48	-	-	-
Total		-	-	39.56	-	-	-

Antenna	Modulation / Carrier Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW}		Channel Position M _{RFBW}		Channel Position T _{RFBW}	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	256QAM / 5.0 MHz	-	-	36.62	-	-	-
B		-	-	36.47	-	-	-
Total		-	-	39.56	-	-	-

Configuration W+L-MC 1 (1W+1L)

Maximum Output Power 37.0dBm per port

Antenna	WCDMA Modulation / LTE Modulation Bandwidth	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW}		Channel Position M _{RFBW} (W) 871.4MHz + (L) 893.3MHz		Channel Position T _{RFBW}	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	QPSK/QPSK 1.4 MHz	-	-	36.36	-	-	-

Antenna	WCDMA Modulation / LTE Modulation Bandwidth	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW}		Channel Position M _{RFBW} (W) 871.4MHz + (L) 892.5MHz		Channel Position T _{RFBW}	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	QPSK/QPSK 3.0 MHz	-	-	36.46	-	-	-

Antenna	Carrier Band WCDMA Modulation / LTE Modulation Bandwidth (MHz)	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW}		Channel Position M _{RFBW} (W) 871.4MHz + (L) 891.5MHz		Channel Position T _{RFBW}	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	QPSK/QPSK 5.0 MHz	-	-	36.57	-	-	-

Antenna	WCDMA Modulation / LTE Modulation Bandwidth	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW}		Channel Position M _{RFBW} (W) 871.4MHz + (L) 889.0MHz		Channel Position T _{RFBW}	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	QPSK/QPSK 10.0 MHz	-	-	36.70	-	-	-

Configuration W+L-MC 2 (3W+2L)

Maximum Output Power 37.0dBm per port

Antenna	WCDMA Modulation / LTE Modulation Bandwidth	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW}		Channel Position M _{RFBW}		Channel Position T _{RFBW}	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	QPSK/QPSK 1.4 MHz	-	-	36.34	-	-	-

Antenna	WCDMA Modulation / LTE Modulation Bandwidth	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW}		Channel Position M _{RFBW}		Channel Position T _{RFBW}	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	QPSK/QPSK 3.0 MHz	-	-	36.45	-	-	-

Antenna	WCDMA Modulation / LTE Modulation Bandwidth	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW}		Channel Position M _{RFBW}		Channel Position T _{RFBW}	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	QPSK/QPSK 5.0 MHz	-	-	36.55	-	-	-

Configuration W+L-MC 3 (3W+1L)

Maximum Output Power 37.0dBm per port

Antenna	WCDMA Modulation / LTE Modulation Bandwidth	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW}		Channel Position M _{RFBW}		Channel Position T _{RFBW}	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	QPSK/QPSK 10.0 MHz	-	-	36.66	-	-	-

Configuration W+L-MIMO-MC 1 (1W+1L)

Maximum Output Power 37.0dBm per port

Antenna	WCDMA Modulation / LTE Modulation Bandwidth	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW} -		Channel Position M _{RFBW} (W) 871.4MHz + (L) 893.3MHz		Channel Position T _{RFBW} -	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	16QAM/ QPSK 1.4 MHz	-	-	36.36	-	-	-
B		-	-	36.25	-	-	-
Total		-	-	39.32	-	-	-

Antenna	WCDMA Modulation / LTE Modulation Bandwidth	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW} -		Channel Position M _{RFBW} (W) 871.4MHz + (L) 892.5MHz		Channel Position T _{RFBW} -	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	16QAM/ QPSK 3.0 MHz	-	-	36.47	-	-	-
B		-	-	36.26	-	-	-
Total		-	-	39.38	-	-	-

Antenna	WCDMA Modulation / LTE Modulation Bandwidth	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW} -		Channel Position M _{RFBW} (W) 871.4MHz + (L) 891.5MHz		Channel Position T _{RFBW} -	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	16QAM/ QPSK 5.0 MHz	-	-	36.56	-	-	-
B		-	-	36.43	-	-	-
Total		-	-	39.51	-	-	-

Antenna	WCDMA Modulation / LTE Modulation Bandwidth	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW} -		Channel Position M _{RFBW} (W) 871.4MHz + (L) 889.0MHz		Channel Position T _{RFBW} -	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	16QAM/ QPSK 10.0 MHz	-	-	36.71	-	-	-
B		-	-	36.62	-	-	-
Total		-	-	39.68	-	-	-

Configuration W+L-MIMO-MC 2 (3W+2L)

Maximum Output Power 37.0dBm per port

Antenna	WCDMA Modulation / LTE Modulation Bandwidth	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW}		Channel Position M _{RFBW}		Channel Position T _{RFBW}	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	16QAM/ QPSK 1.4 MHz	-		(W) 871.4MHz + (W) 876.4MHz + (W) 881.4MHz + (L) 891.9MHz + (L) 893.3MHz		-	
B		-	-	36.33	-	-	-
Total		-	-	39.33	-	-	-

Antenna	WCDMA Modulation / LTE Modulation Bandwidth	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW}		Channel Position M _{RFBW}		Channel Position T _{RFBW}	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	16QAM/ QPSK 3.0 MHz	-		(W) 871.4MHz + (W) 876.4MHz + (W) 881.4 MHz+ (L) 889.5MHz + (L) 892.5MHz		-	
B		-	-	36.46	-	-	-
Total		-	-	39.45	-	-	-

Antenna	WCDMA Modulation / LTE Modulation Bandwidth	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW}		Channel Position M _{RFBW}		Channel Position T _{RFBW}	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	16QAM/ QPSK 5.0 MHz	-		(W) 871.4MHz + (W) 876.4MHz + (W) 881.4MHz + (L) 886.5MHz + (L) 891.5MHz		-	
B		-	-	36.55	-	-	-
Total		-	-	39.52	-	-	-

Configuration W+L-MIMO-MC 3 (3W+L)

Maximum Output Power 37.0dBm per port

Antenna	WCDMA Modulation / LTE Modulation Bandwidth	RMS Output Power / Peak to Average Ratio (PAR)					
		Channel Position B _{RFBW}		Channel Position M _{RFBW}		Channel Position T _{RFBW}	
		Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)	Power (dBm)	PAR (dB)
A	16QAM/ QPSK 10.0 MHz	-		(W) 871.4MHz + (W) 876.4MHz + (W) 881.4MHz + (L) 889.0MHz		-	
B		-	-	36.66	-	-	-
Total		-	-	39.63	-	-	-

Note :

This unit is tested without antenna. ERP/EIRP compliance is addressed at the time of licensing, as required by the responsible FCC/IC Bureau(s). Licensees 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.

Limit	
Output Power	FCC: (ERP) ≤ 500 W or $\leq +57.0$ dBm
	IC: (e.i.r.p) ≤ 820 W or $\leq + 59.1$ dBm
Peak to Average Ratio	≤ 13 dB

Remarks

The maximum output power of the EUT is sufficient to keep it within the range of the rated transmitter power that the manufacture declared and the requirements of FCC and IC standards. The peak to average ratio is under the limit of 13dB.

2.2 MAXIMUM OUTPUT POWER-RADIATED

2.2.1 Specification Reference

FCC CFR 47 Part 2, Clause 2.1046
FCC CFR 47 Part 22, Clause 22.913 (a)
Industry Canada RSS-132, Clause 5.4

2.2.2 Equipment Under Test

Radio 2203 B5, KRC 161 508/1, S/N: D822845958

2.2.3 Date of Test and Modification State

9 and 11 March 2016 - Modification State 0

2.2.4 Test Equipment Used

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

2.2.5 Environmental Conditions

Ambient Temperature	22.0 - 28.3°C
Relative Humidity	29.2 - 35.0%

2.2.6 Test Method

The measurements were performed according to ANSI C63.4: 2014.

During the test, the EUT antenna ports A and B were connected with integral antenna or external Omni antenna.

The EUT was set to transmit at maximum power and testing was carried out on bottom, middle and top channels. The test of radiated emission was performed in a semi anechoic chamber. The measurements were performed with both horizontal and vertical polarizations of the antennas. The antenna distance was 3.0 m.

The fundamental was scanned with Peak detector with the antenna height was varied between 1-4 m and the turntable was rotated between 0-360 degrees for maximum response. The carrier power was measured with RMS detector activated with a RBW of 1MHz. The output power was verified with the substitution method. The antenna distance during the measurements was 3.0 m.

2.2.7 Test Results

Configuration L-MIMO-SC

Maximum Output Power 37.0dBm per port, LTE modulation with 16QAM

Internal integrated antenna KRE 101 2199/1

Bandwidth Configuration (MHz)	Channel Position B	Vertical/Horizontal RMS power (ERP)	
		dBm	W
1.4	869.7MHz	39.51/40.17	8.93/11.78

Bandwidth Configuration (MHz)	Channel Position M	Vertical/Horizontal RMS power (ERP)	
		dBm	W
1.4	881.5MHz	40.75/40.15	11.89/10.35
3.0	881.5MHz	38.25/38.00	6.68/6.31
5.0	881.5MHz	36.55/36.25	4.52/4.22
10.0	881.5MHz	34.25/33.45	2.66/2.21

Bandwidth Configuration (MHz)	Channel Position T	Vertical/Horizontal RMS power (ERP)	
		dBm	W
1.4	893.3MHz	38.43/39.93	6.97/9.84

External Omni antenna KRE 101 2233/1

Bandwidth Configuration (MHz)	Channel Position B	Vertical/Horizontal RMS power (ERP)	
		dBm	W
1.4	869.7MHz	38.90/27.00	7.76/0.50

Bandwidth Configuration (MHz)	Channel Position M	Vertical/Horizontal RMS power (ERP)	
		dBm	W
1.4	881.5MHz	39.28/26.88	8.47/0.49
3.0	881.5MHz	37.28/24.68	5.35/0.29
5.0	881.5MHz	35.78/22.98	3.78/0.20
10.0	881.5MHz	33.08/19.88	2.03/0.10

Bandwidth Configuration (MHz)	Channel Position T	Vertical/Horizontal RMS power (ERP)	
		dBm	W
1.4	893.3MHz	38.93/26.68	7.82/0.47

Configuration W-MIMO-SC

Maximum Output Power 37.0dBm per port, WCDMA modulation with 16QAM

Internal integrated antenna KRE 101 2199/1

Bandwidth Configuration (MHz)	Channel Position B	Vertical/Horizontal RMS power (ERP)	
		dBm	W
5.0	871.4MHz	36.14/34.54	4.11/2.84

Bandwidth Configuration (MHz)	Channel Position M	Vertical/Horizontal RMS power (ERP)	
		dBm	W
5.0	881.4MHz	35.85/35.15	3.85/3.27

Bandwidth Configuration (MHz)	Channel Position T	Vertical/Horizontal RMS power (ERP)	
		dBm	W
5.0	891.6MHz	37.22/35.02	5.27/3.18

External Omni antenna KRE 101 2135/1

Bandwidth Configuration (MHz)	Channel Position B	Vertical/Horizontal RMS power (ERP)	
		dBm	W
5.0	871.4MHz	33.44/23.03	2.21/0.20

Bandwidth Configuration (MHz)	Channel Position M	Vertical/Horizontal RMS power (ERP)	
		dBm	W
5.0	881.4MHz	34.48/22.68	2.81/0.19

Bandwidth Configuration (MHz)	Channel Position T	Vertical/Horizontal RMS power (ERP)	
		dBm	W
5.0	891.6MHz	35.02/22.98	3.18/0.20

Note: $EIRP(dBm) = ERP(dBm) + 2.15(dB)$

Limit	
Output Power	FCC: $(ERP) \leq 500 W$ or $\leq +57.0 dBm$
	IC: $(e.i.r.p) \leq 820 W$ or $\leq + 59.1 dBm$

2.3 OCCUPIED BANDWIDTH

2.3.1 Specification Reference

FCC CFR 47 Part 2, Clause 2.1049(h)
FCC CFR 47 Part 22, Clause 22.917 (b)
Industry Canada RSS-GEN, Clause 6.6

2.3.2 Equipment Under Test

Radio 2203 B5, KRC 161 508/1, S/N: D822845958

2.3.3 Date of Test and Modification State

23 February and 3 March 2016 - Modification State 0

2.3.4 Test Equipment Used

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

2.3.5 Environmental Conditions

Ambient Temperature	19.9 - 23.0°C
Relative Humidity	24.0 - 37.6%

2.3.6 Test Method

The test was applied in accordance with the test method requirements of FCC CFR 47 Part 22 and Industry Canada RSS-GEN.

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 Analyser, the 26dB bandwidth was measured in accordance with FCC KDB 971168 D01 Power Meas License Digital Systems v02r02 Clause 4.2. In addition, measurements of 99% occupied bandwidths were made in accordance with Industry Canada RSS-GEN Clause 6.6. The RBW was configured to 1% of the theoretical channel bandwidth, meeting the requirement of being between 1 to 5% of the Occupied Bandwidth described in the KDB aforementioned.

The results are shown in the plots below.

2.3.7 Test Results

Configuration W-SC

Maximum Output Power 37.0dBm per port

-26dBc Occupied Bandwidth for FCC requirement

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B 871.4MHz	Channel Position M 881.4MHz	Channel Position T 891.6MHz
QPSK / 5.0 MHz	4.633	4.658	4.652

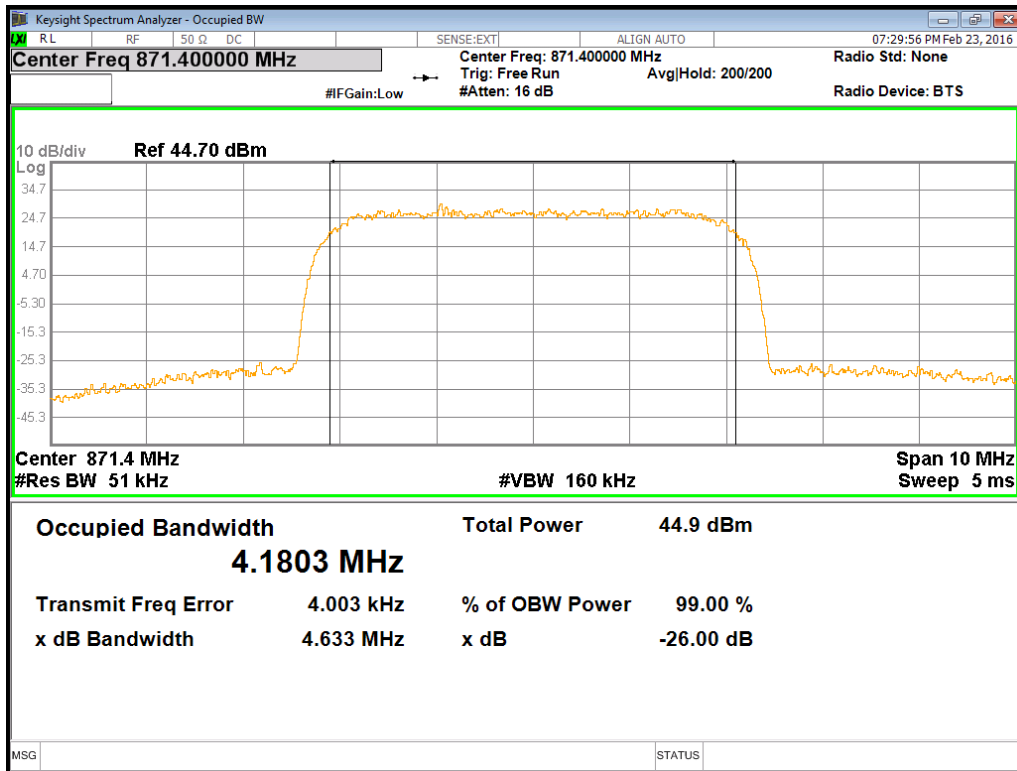
Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B 871.4MHz	Channel Position M 881.4MHz	Channel Position T 891.6MHz
QPSK / 4.2 MHz	4.118	4.110	4.121

99% Occupied Bandwidth for IC requirement

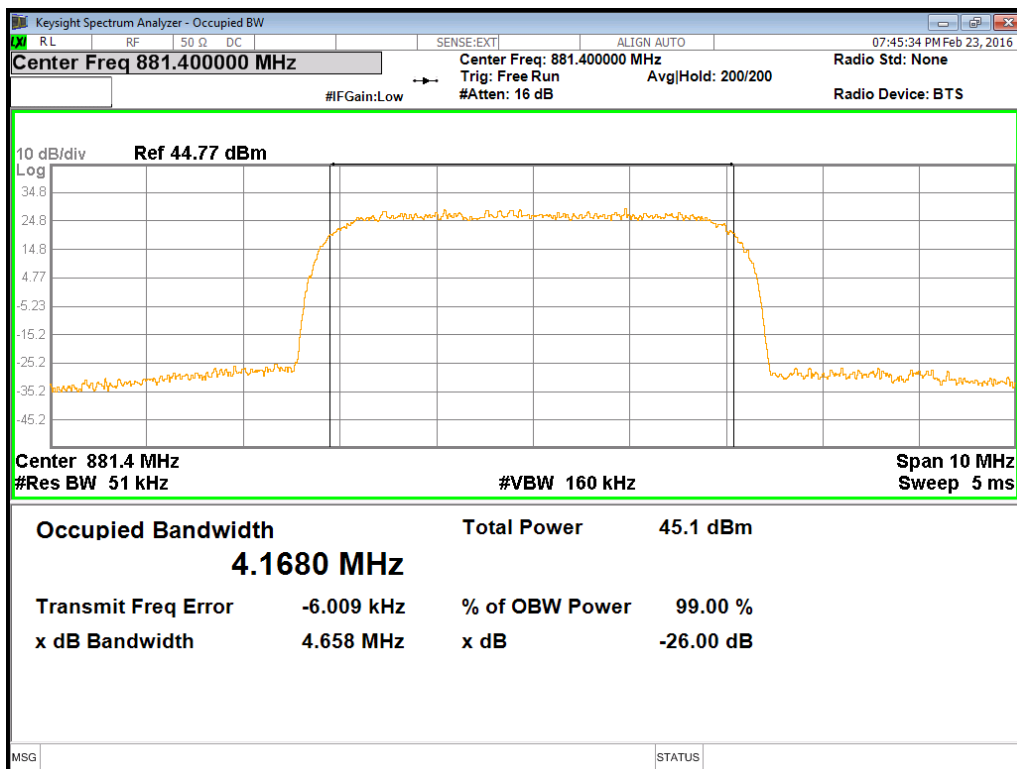
Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B 871.4MHz	Channel Position M 881.4MHz	Channel Position T 891.6MHz
QPSK / 5.0 MHz	4.180	4.168	4.162

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B 871.4MHz	Channel Position M 881.4MHz	Channel Position T 891.6MHz
QPSK / 4.2 MHz	3.854	3.851	3.844

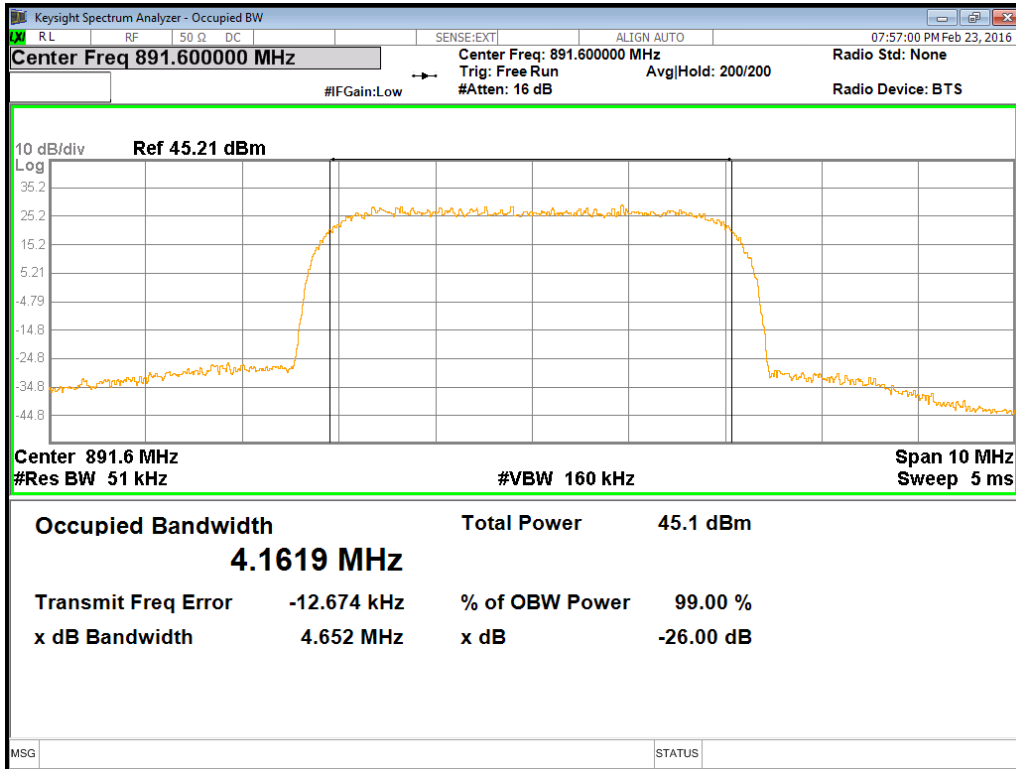
Channel Position B - QPSK / Bandwidth 5.0 MHz



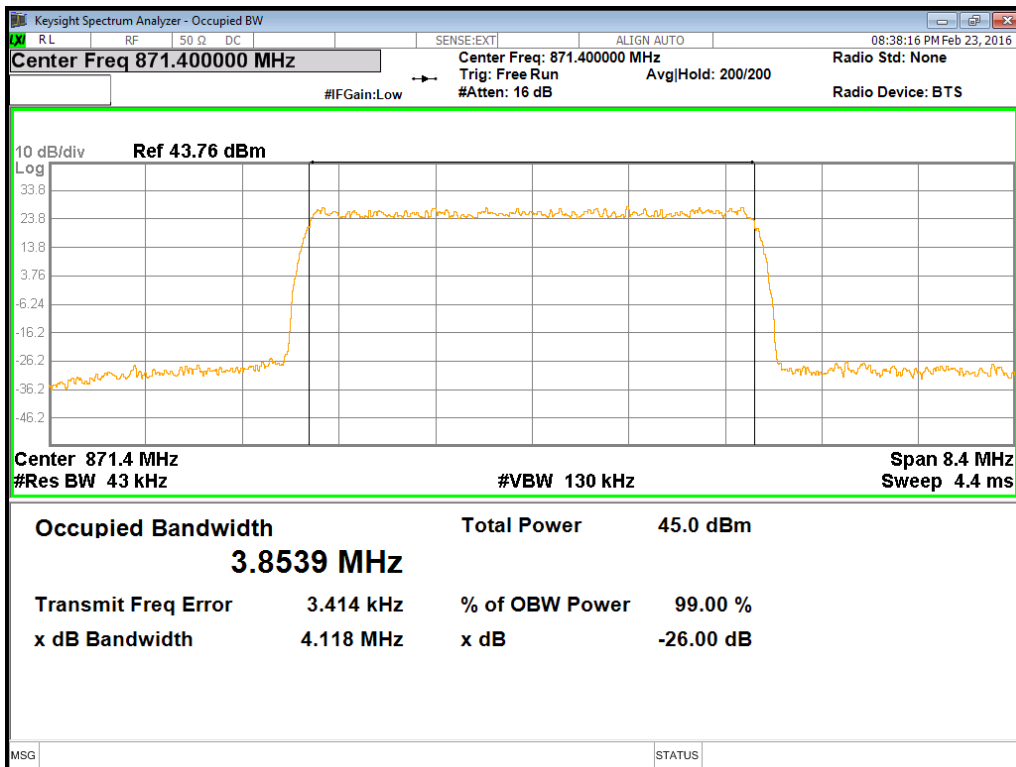
Channel Position M - QPSK / Bandwidth 5.0 MHz



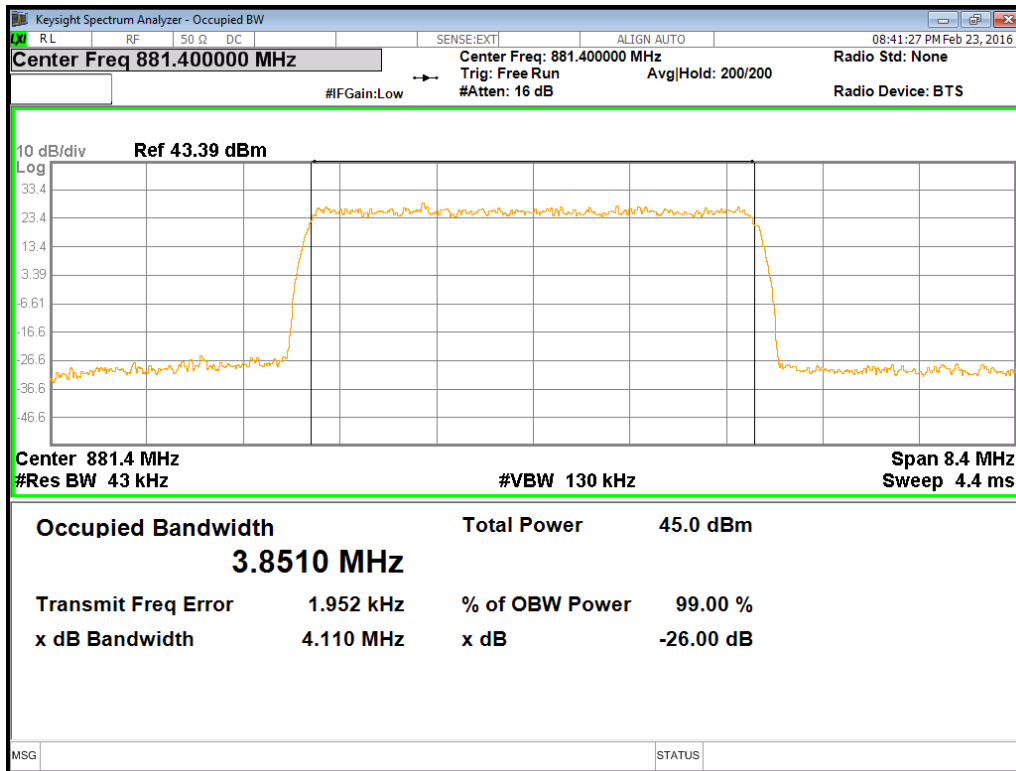
Channel Position T - QPSK / Bandwidth 5.0 MHz



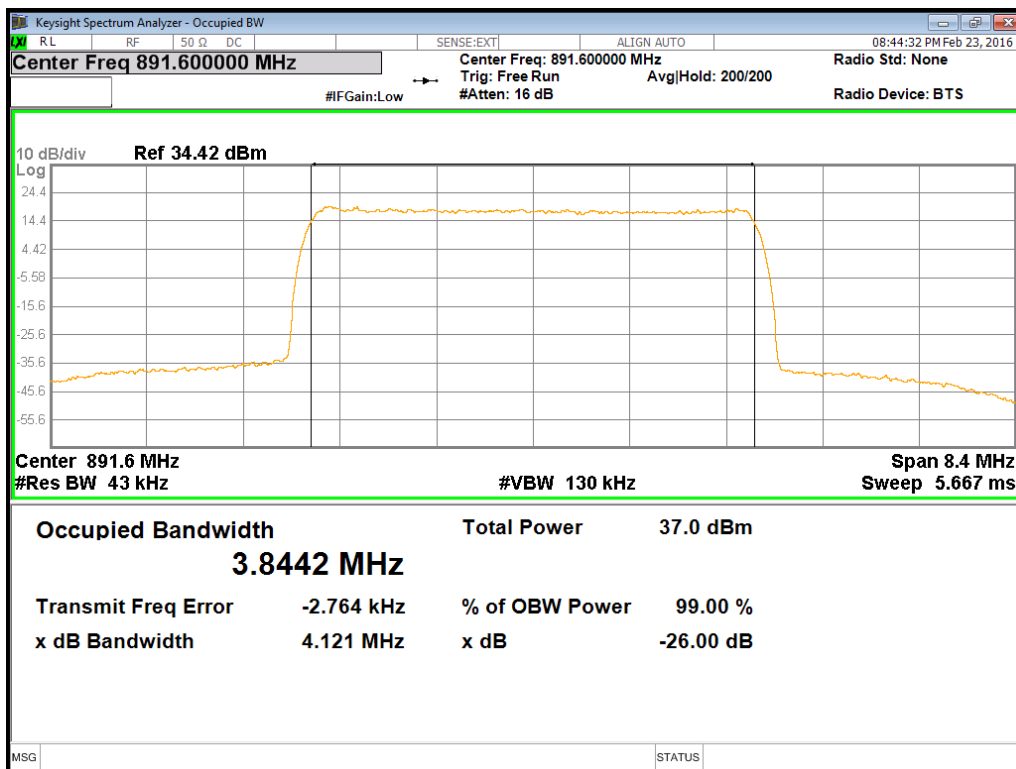
Channel Position B - QPSK / Bandwidth 4.2 MHz



Channel Position M - QPSK / Bandwidth 4.2 MHz



Channel Position T - QPSK / Bandwidth 4.2 MHz



Configuration W-MIMO-SC

Maximum Output Power 37.0dBm per port

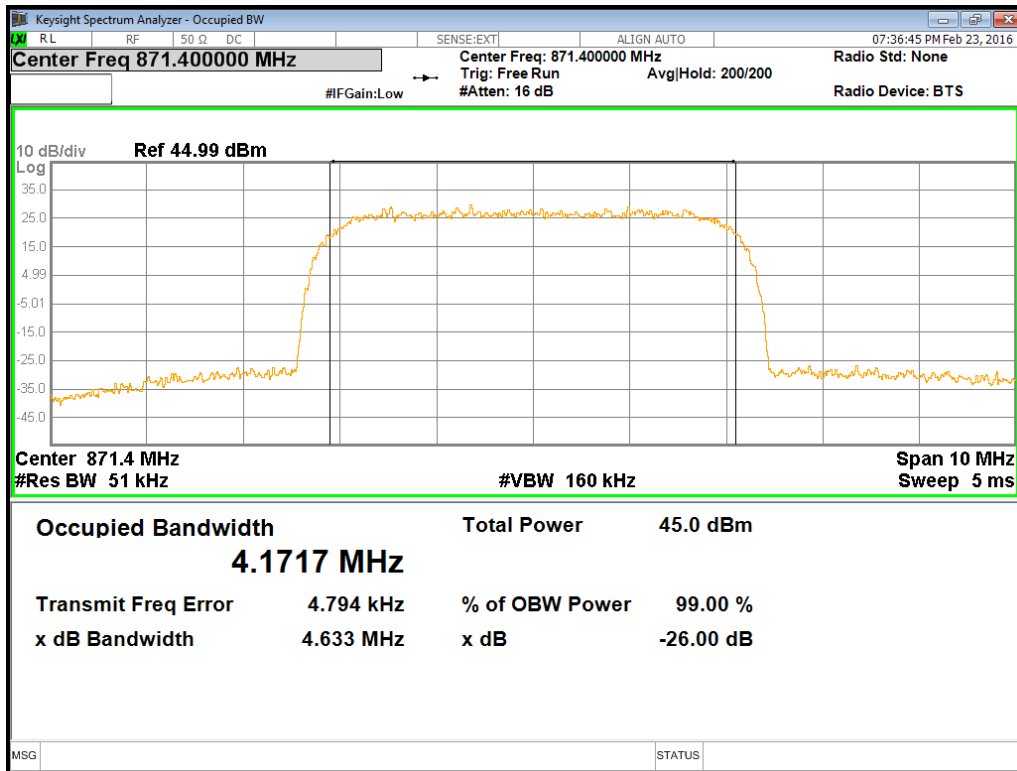
-26dBc Occupied Bandwidth for FCC requirement

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B 871.4MHz	Channel Position M 881.4MHz	Channel Position T 891.6MHz
16QAM / 5.0 MHz	4.633	4.622	4.637
64QAM / 5.0 MHz	4.641	4.636	4.652

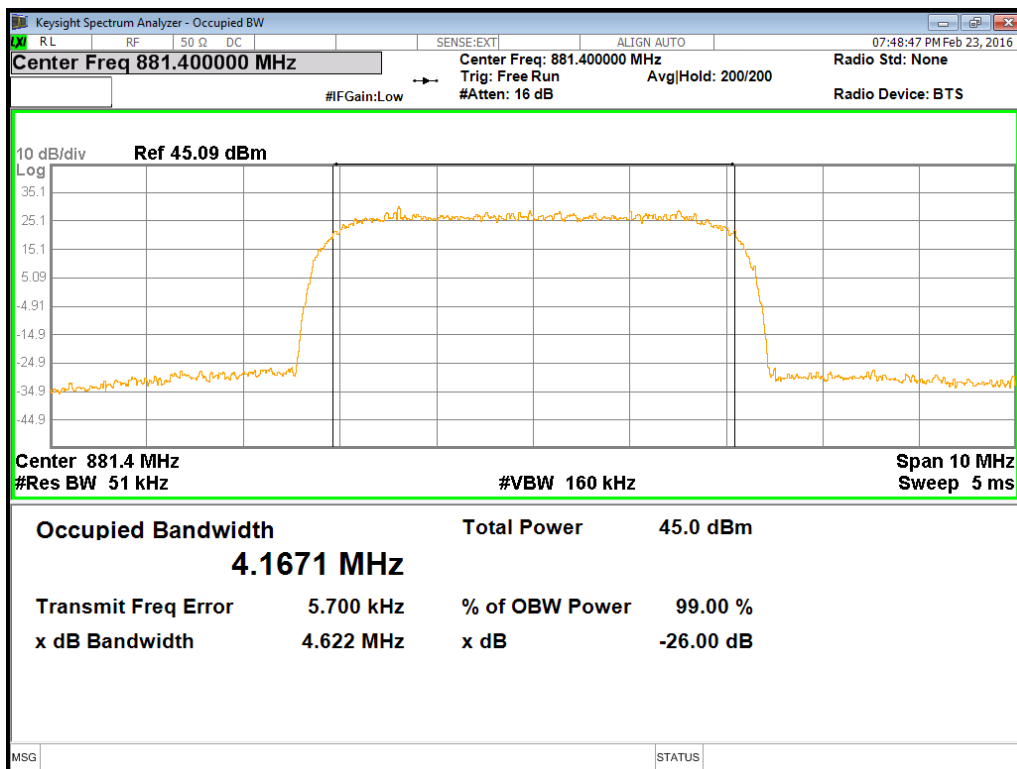
99% Occupied Bandwidth for IC requirement

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B 871.4MHz	Channel Position M 881.4MHz	Channel Position T 891.6MHz
16QAM / 5.0 MHz	4.172	4.167	4.166
64QAM / 5.0 MHz	4.164	4.158	4.165

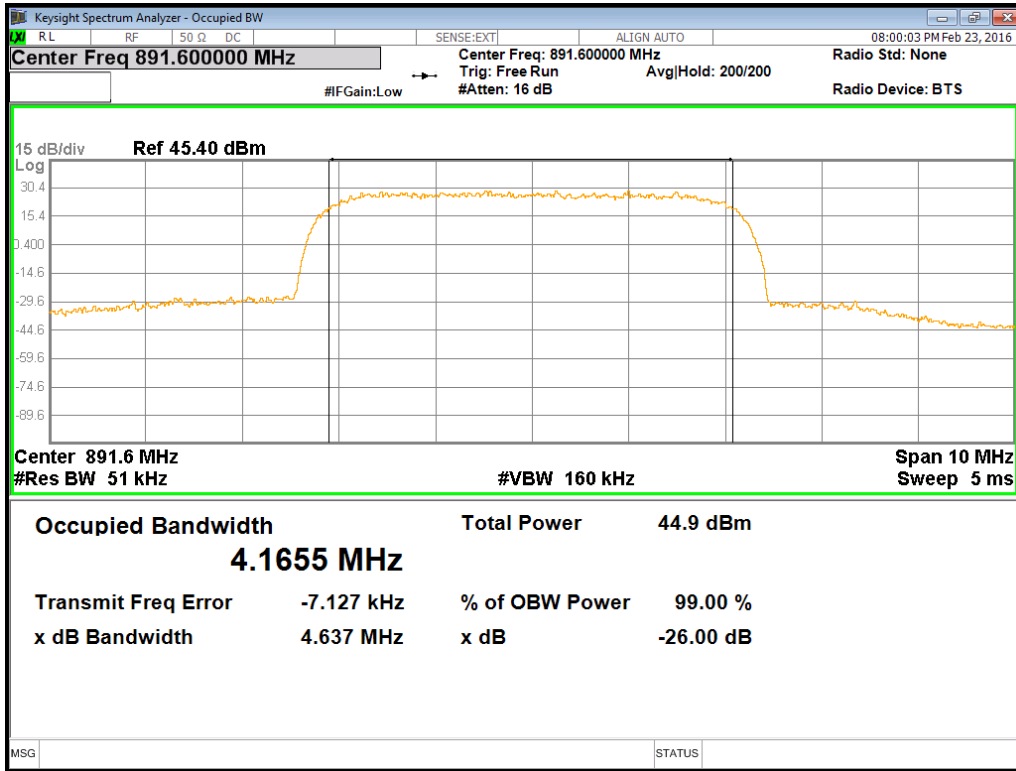
Channel Position B - 16QAM / Bandwidth 5.0 MHz



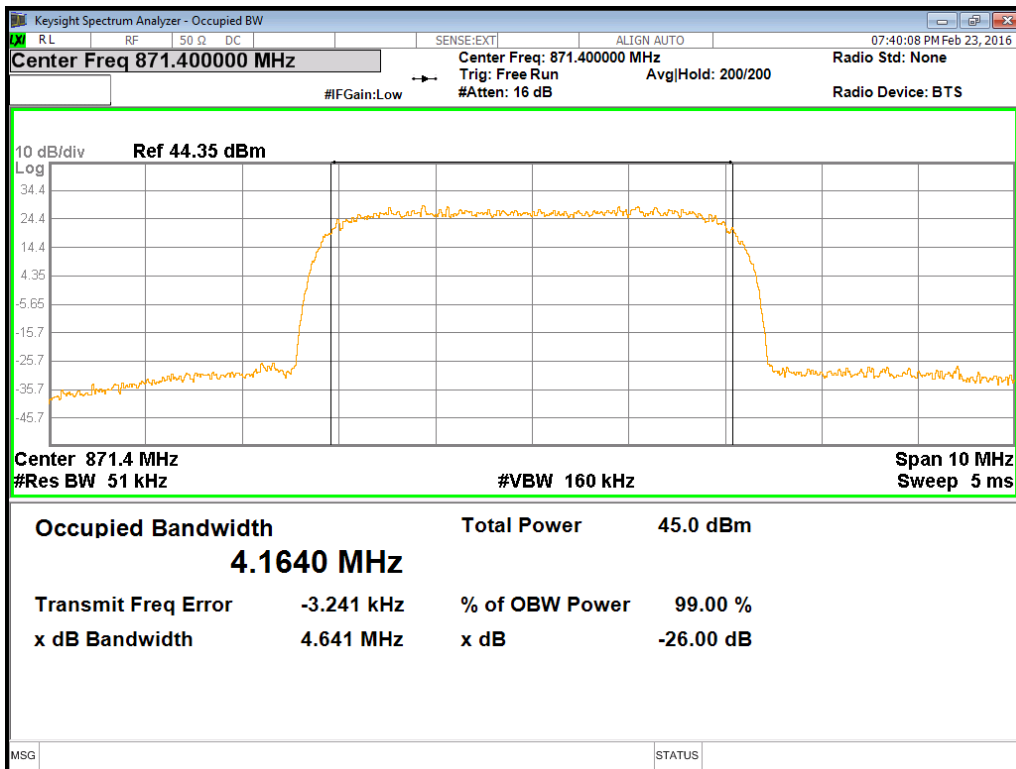
Channel Position M - 16QAM / Bandwidth 5.0 MHz



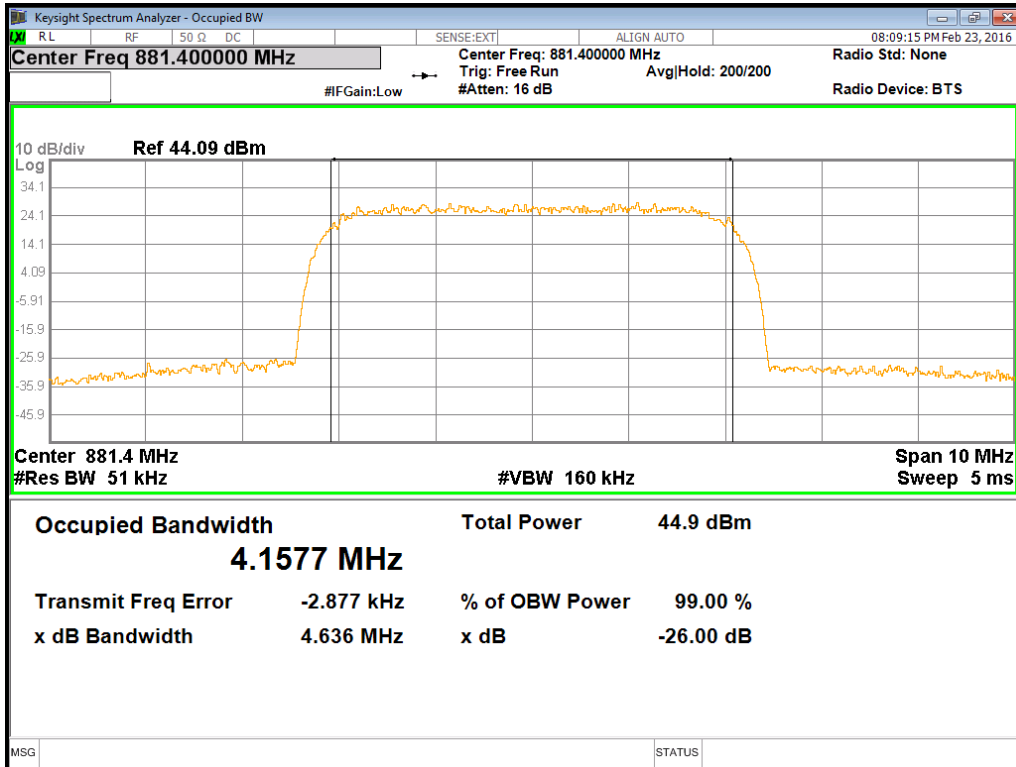
Channel Position T - 16QAM / Bandwidth 5.0 MHz



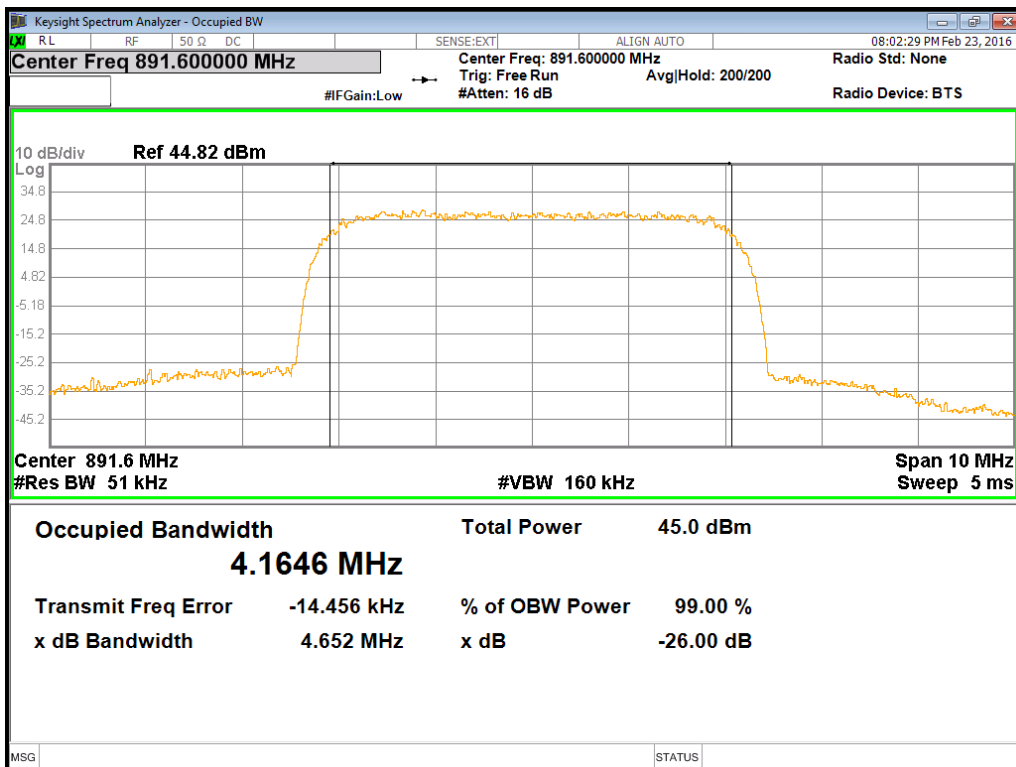
Channel Position B - 64QAM / Bandwidth 5.0 MHz



Channel Position M - 64QAM / Bandwidth 5.0 MHz



Channel Position T - 64QAM / Bandwidth 5.0 MHz



Configuration L-MIMO-SC

Maximum Output Power 37.0dBm per port

-26dBc Occupied Bandwidth for FCC requirement

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B 869.7MHz	Channel Position M 881.5MHz	Channel Position T 893.3MHz
QPSK / 1.4 MHz	1.261	1.243	1.238
16QAM / 1.4 MHz	-	1.233	-
64QAM / 1.4 MHz	-	1.232	-
256QAM / 1.4 MHz	-	1.229	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B 870.5MHz	Channel Position M 881.5MHz	Channel Position T 892.5MHz
QPSK / 3.0 MHz	-	2.856	-
16QAM / 3.0 MHz	-	2.845	-
64QAM / 3.0 MHz	-	2.859	-
256QAM / 3.0 MHz	-	2.862	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B 871.5MHz	Channel Position M 881.5MHz	Channel Position T 891.5MHz
QPSK / 5.0 MHz	-	4.747	-
16QAM / 5.0 MHz	-	4.700	-
64QAM / 5.0 MHz	-	4.706	-
256QAM / 5.0 MHz	-	4.726	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B 874.0MHz	Channel Position M 881.5MHz	Channel Position T 889.0MHz
QPSK / 10.0 MHz	9.289	9.286	9.273
16QAM / 10MHz	-	9.269	-
64QAM / 10.0 MHz	-	9.290	-
256QAM / 10.0 MHz	-	9.276	-

99% Occupied Bandwidth for IC requirement

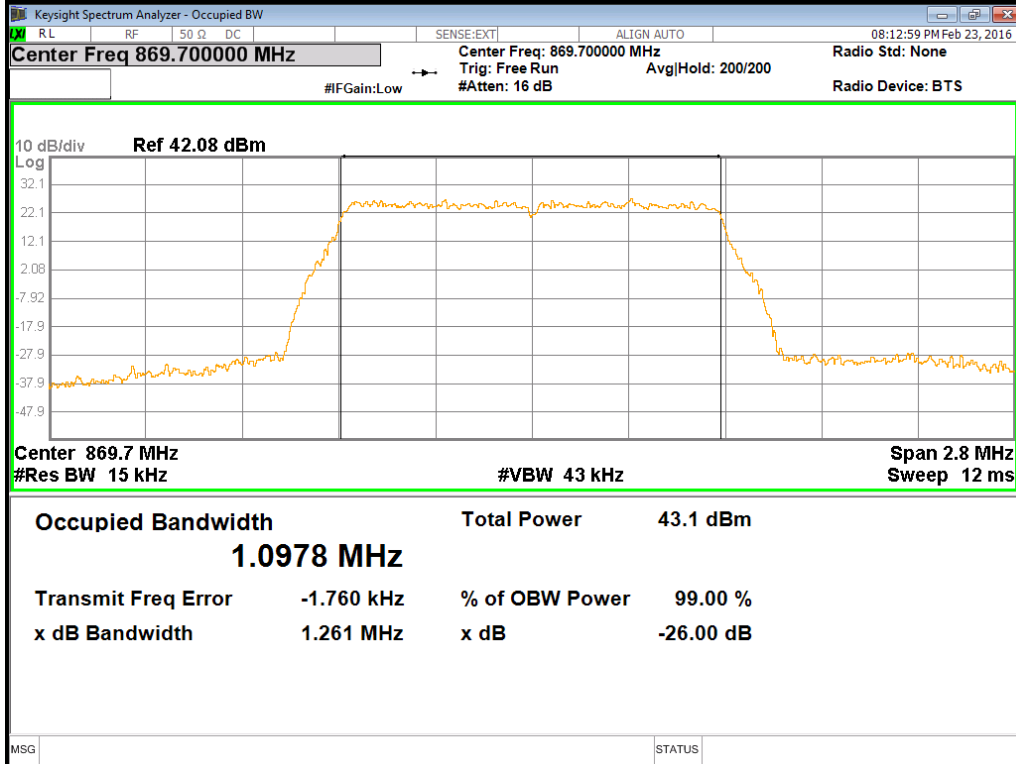
Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B 869.7MHz	Channel Position M 881.5MHz	Channel Position T 893.3MHz
QPSK / 1.4 MHz	1.098	1.089	1.089
16QAM / 1.4 MHz	-	1.088	-
64QAM / 1.4 MHz	-	1.088	-
256QAM / 1.4 MHz	-	1.089	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B 870.5MHz	Channel Position M 881.5MHz	Channel Position T 892.5MHz
QPSK / 3.0 MHz	-	2.692	-
16QAM / 3.0 MHz	-	2.690	-
64QAM / 3.0 MHz	-	2.691	-
256QAM / 3.0 MHz	-	2.689	-

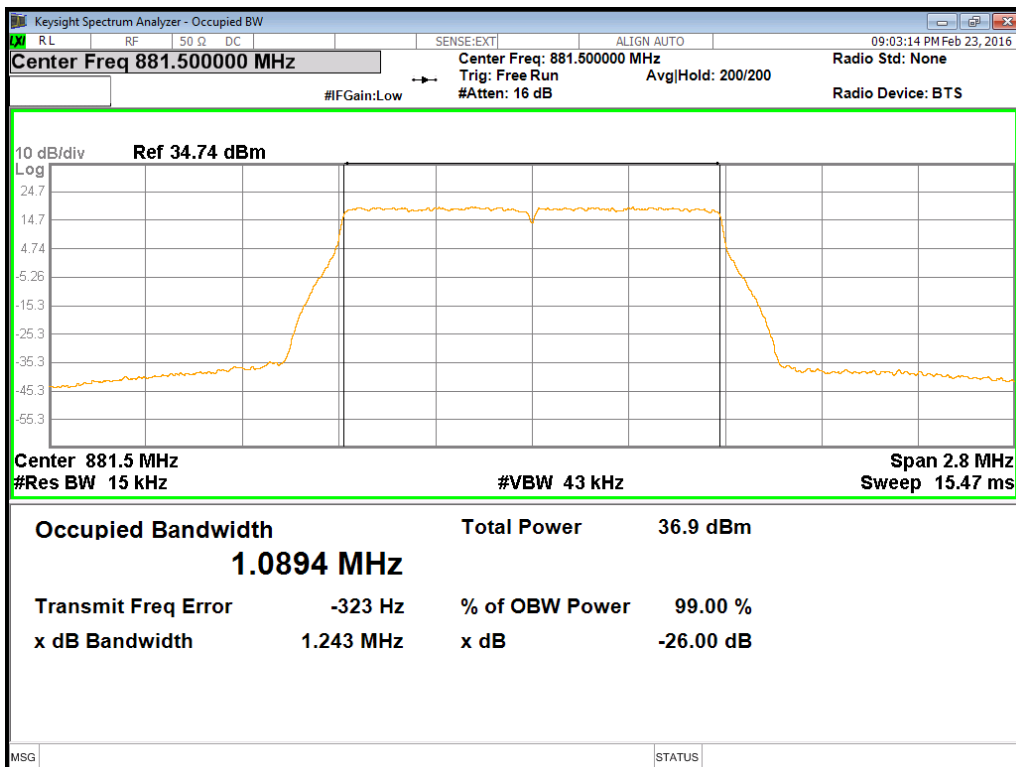
Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B 871.5MHz	Channel Position M 881.5MHz	Channel Position T 891.5MHz
QPSK / 5.0 MHz	-	4.479	-
16QAM / 5.0 MHz	-	4.457	-
64QAM / 5.0 MHz	-	4.476	-
256QAM / 5.0 MHz	-	4.479	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B 874.0MHz	Channel Position M 881.5MHz	Channel Position T 889.0MHz
QPSK / 10.0 MHz	8.934	8.939	8.925
16QAM / 10.0 MHz	-	8.926	-
64QAM / 10.0 MHz	-	8.935	-
256QAM / 10.0 MHz	-	8.931	-

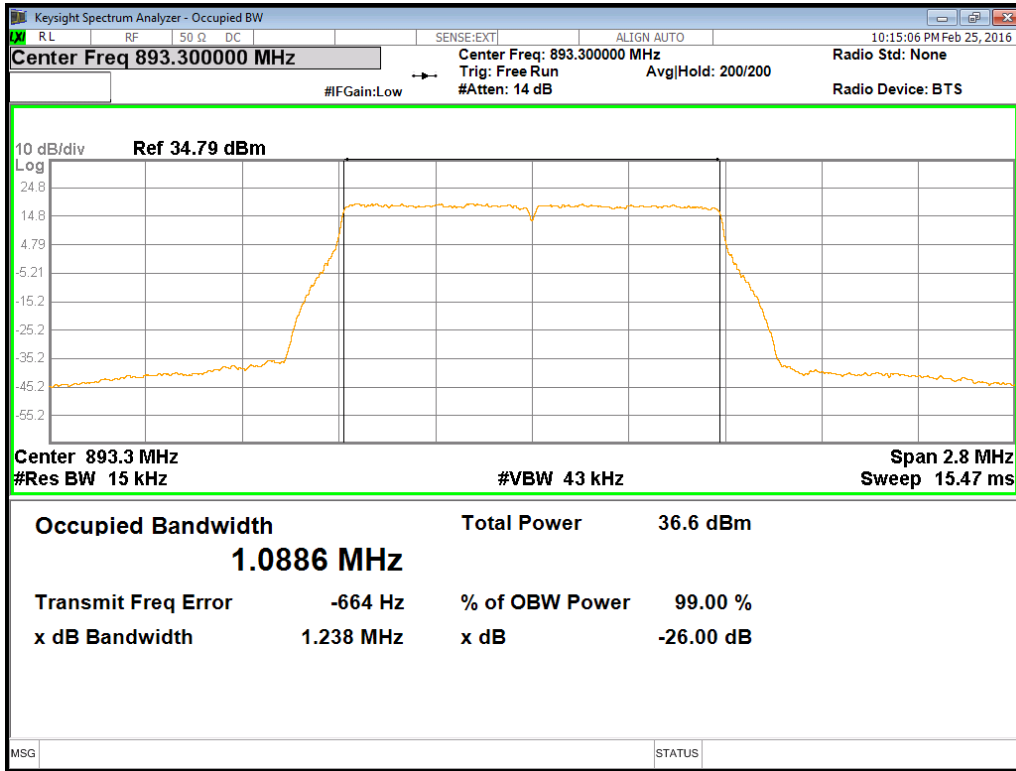
Channel Position B - QPSK / Bandwidth 1.4 MHz



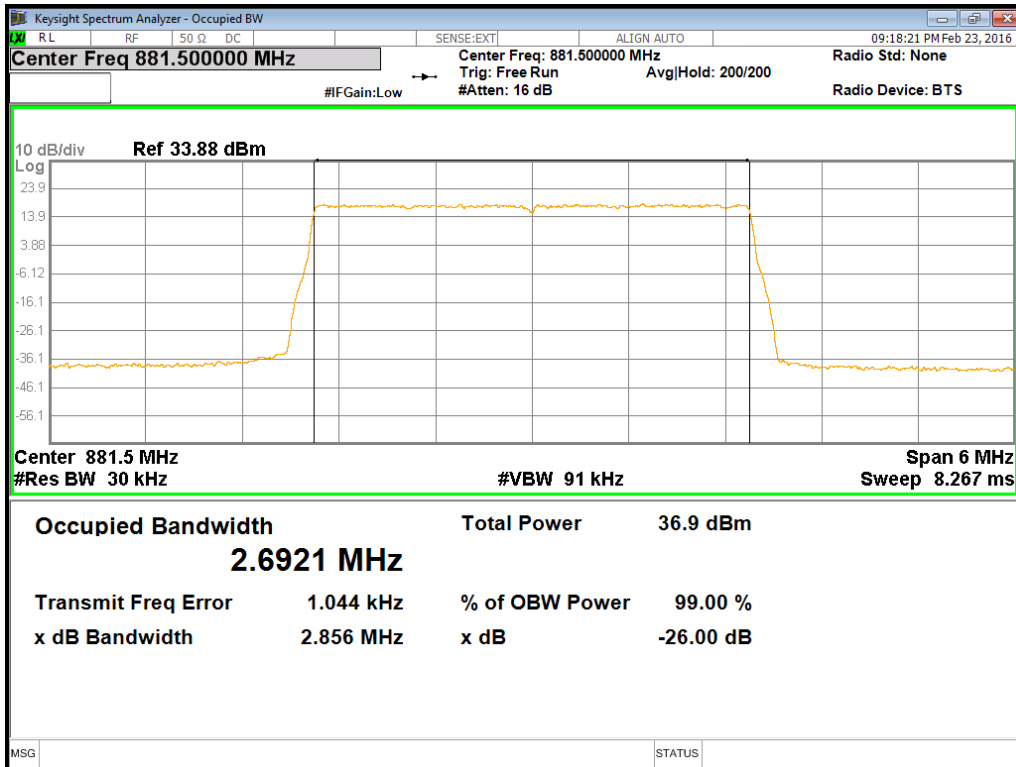
Channel Position M - QPSK / Bandwidth 1.4 MHz



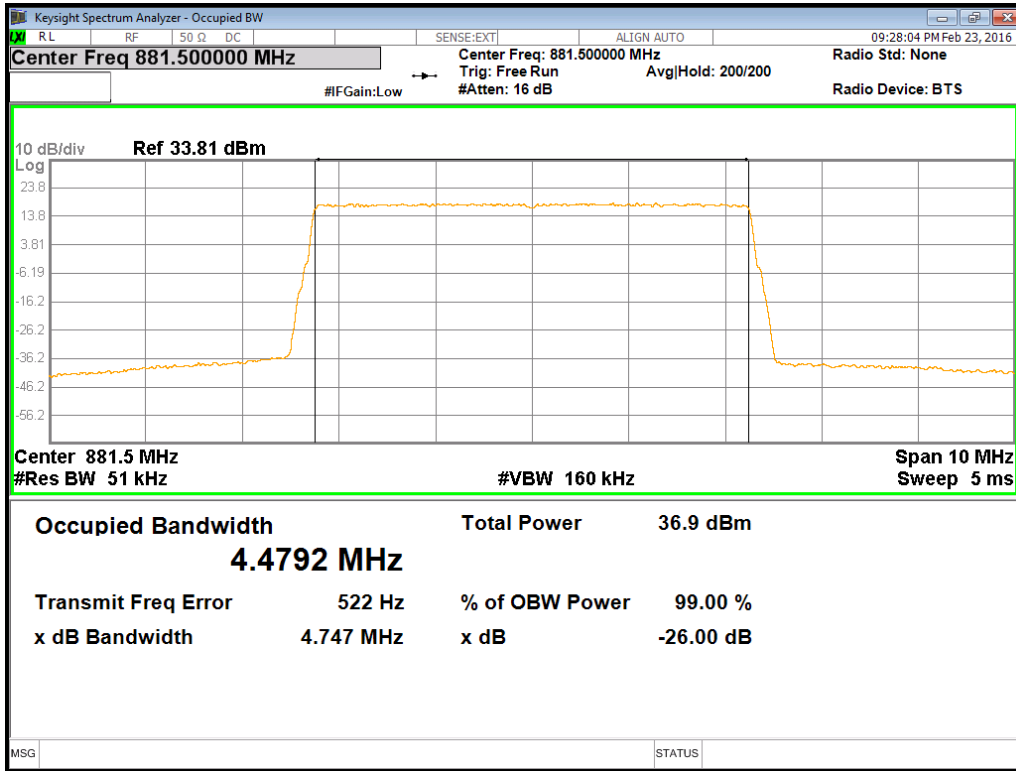
Channel Position T - QPSK / Bandwidth 1.4 MHz



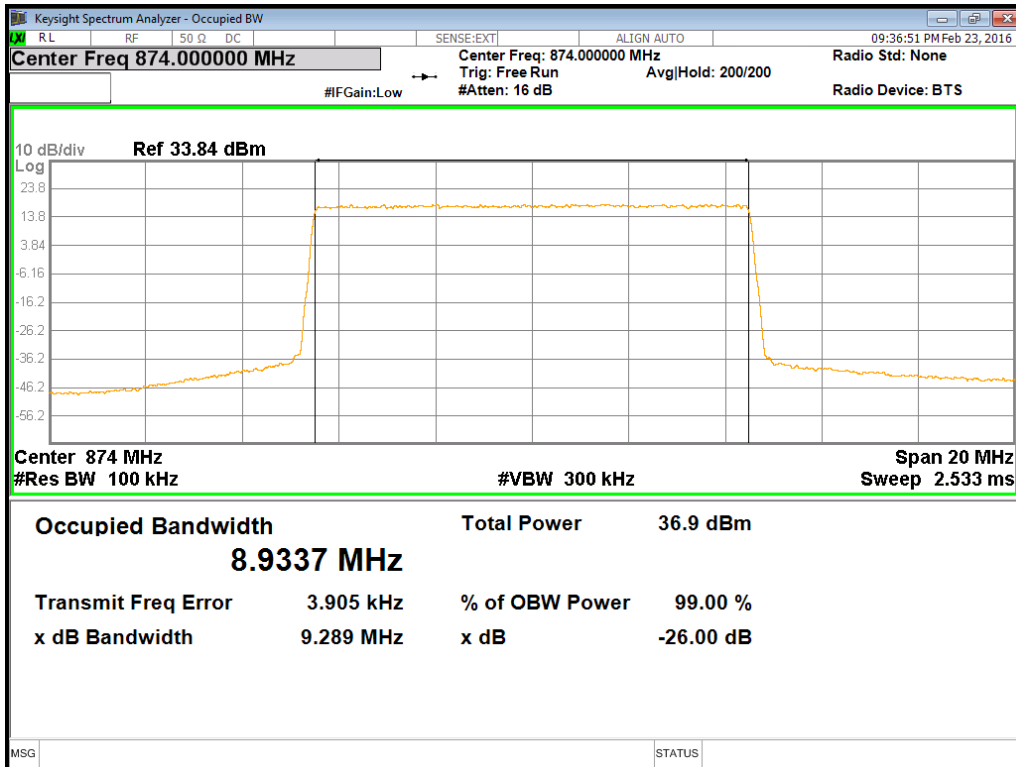
Channel Position M - QPSK / Bandwidth 3.0 MHz



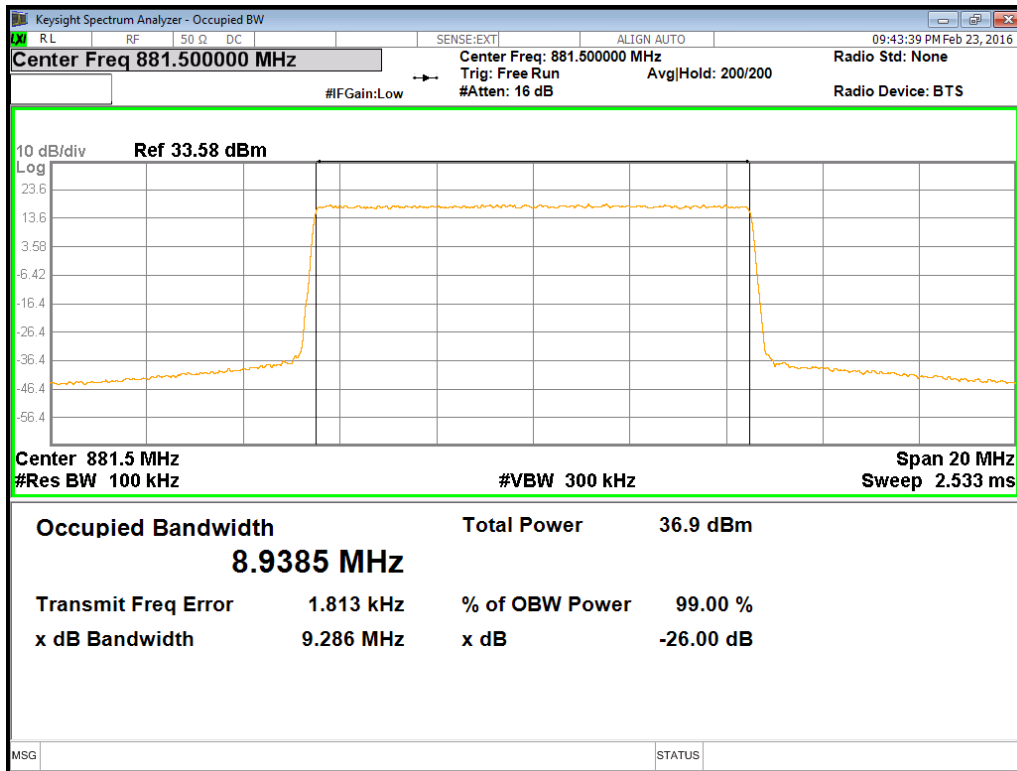
Channel Position M - QPSK / Bandwidth 5.0 MHz



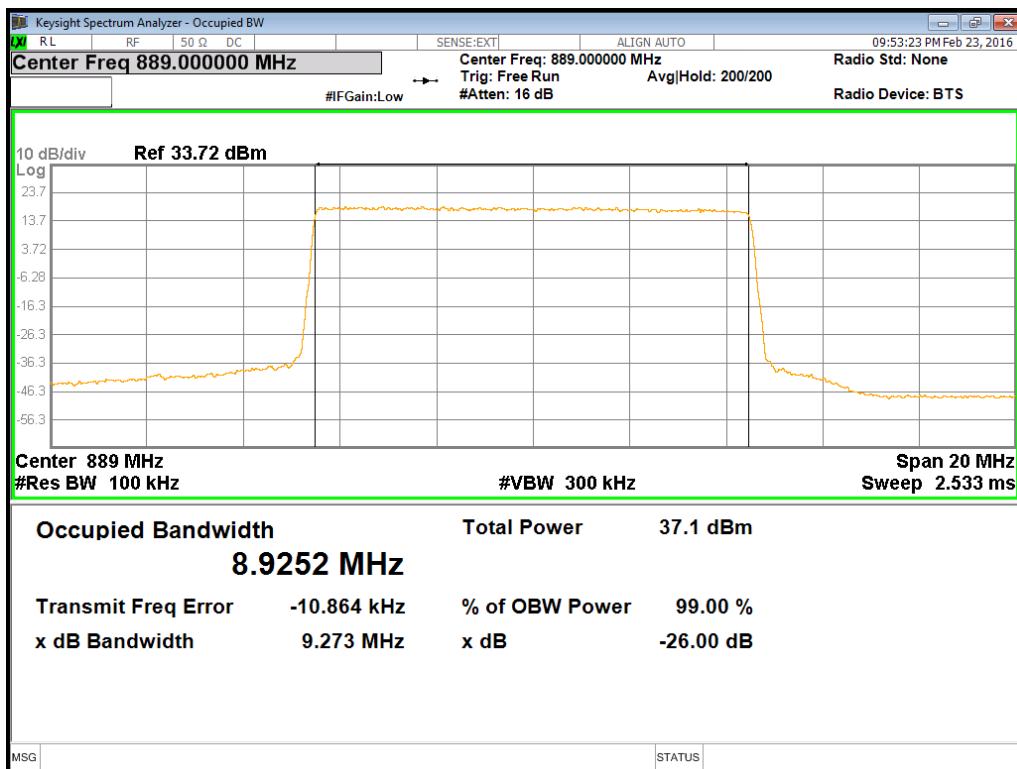
Channel Position B - QPSK / Bandwidth 10.0 MHz



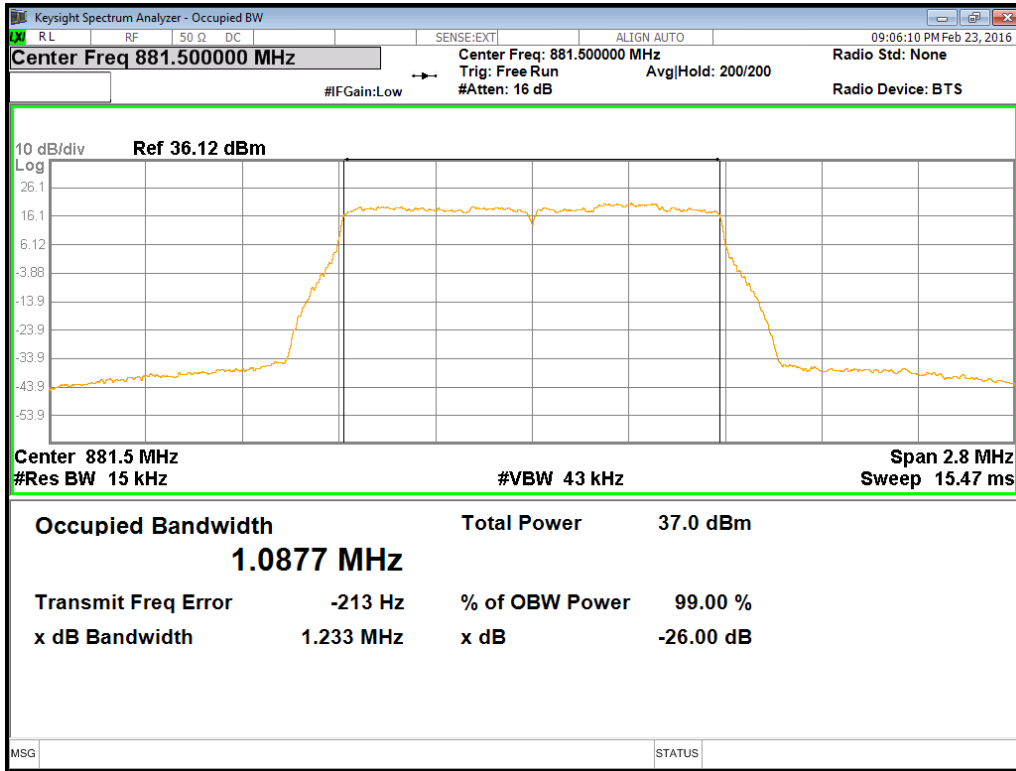
Channel Position M - QPSK / Bandwidth 10.0 MHz



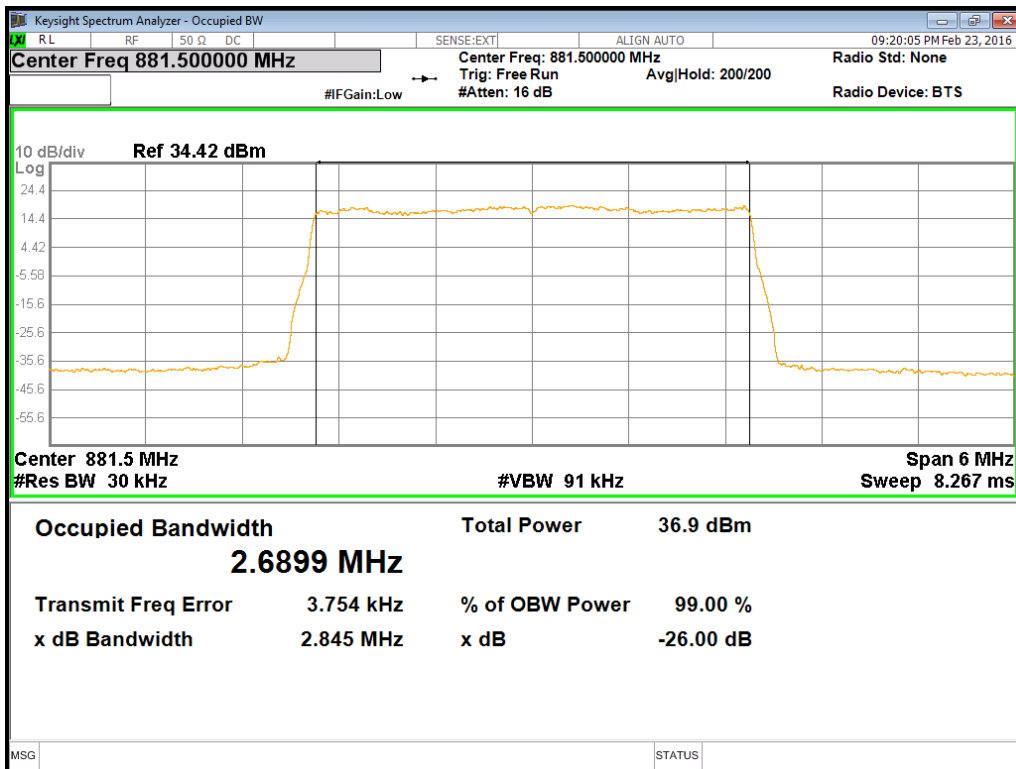
Channel Position T - QPSK / Bandwidth 10.0 MHz



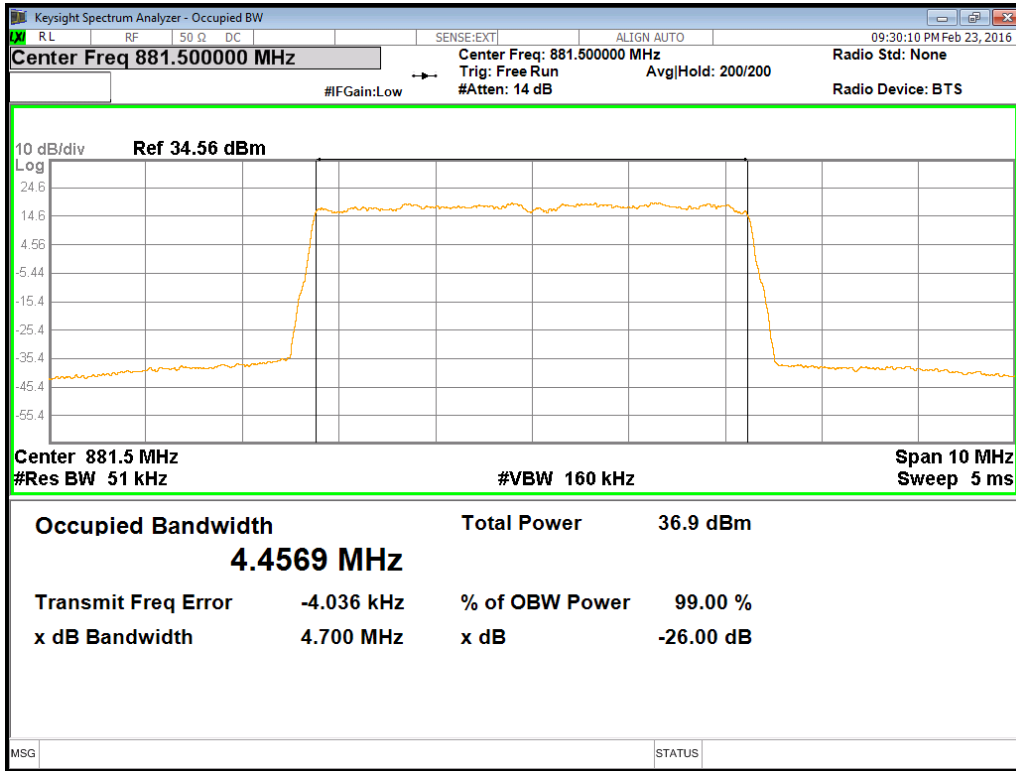
Channel Position M - 16QAM / Bandwidth 1.4 MHz



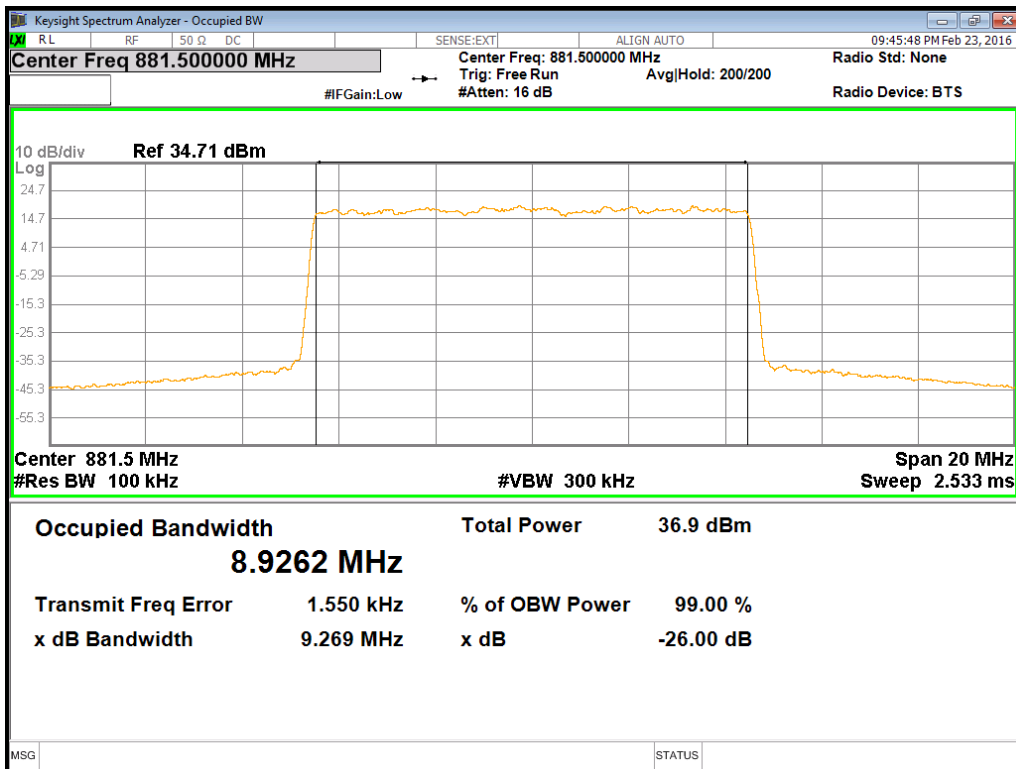
Channel Position M - 16QAM / Bandwidth 3.0 MHz



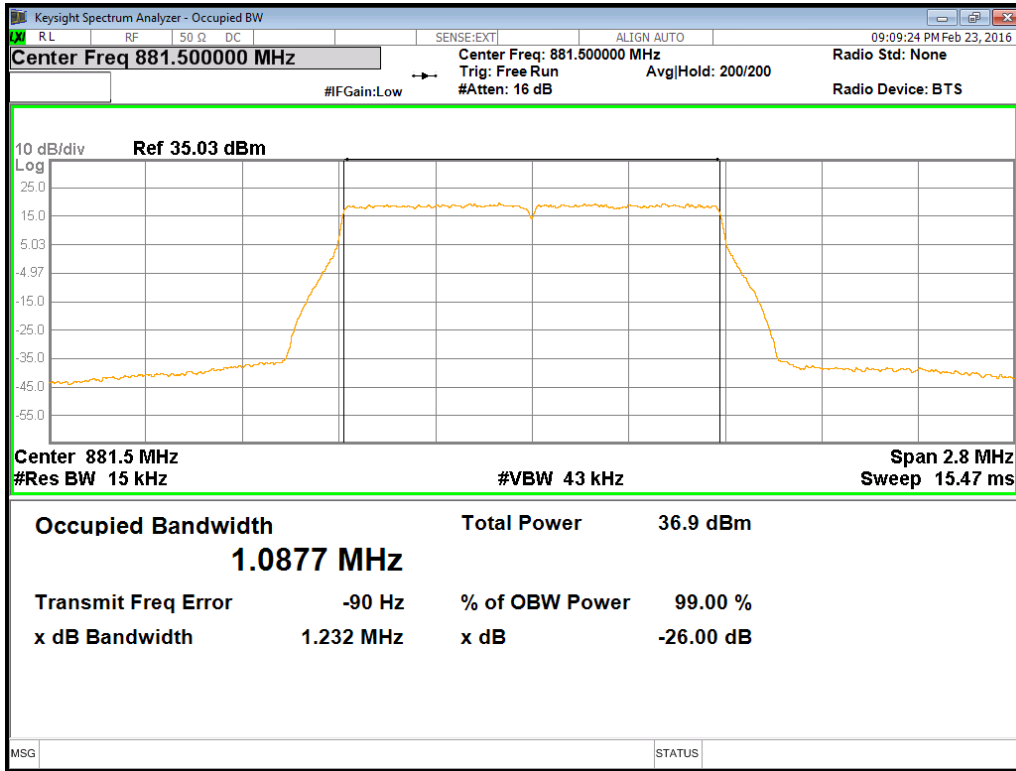
Channel Position M - 16QAM / Bandwidth 5.0 MHz



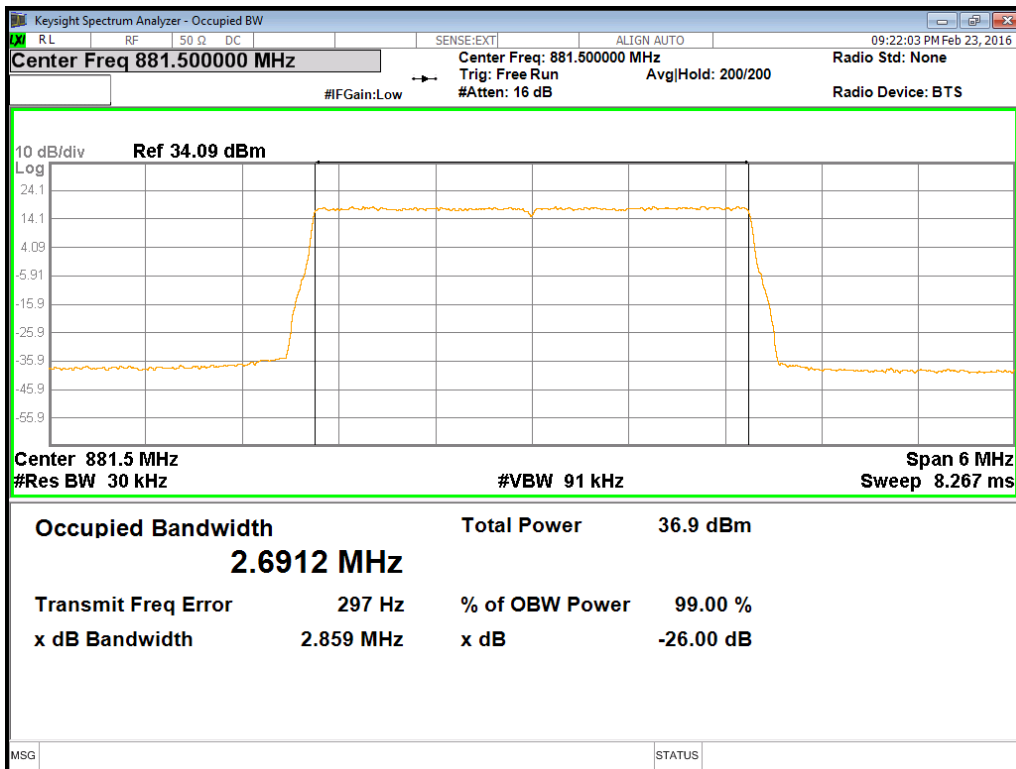
Channel Position M - 16QAM / Bandwidth 10.0 MHz



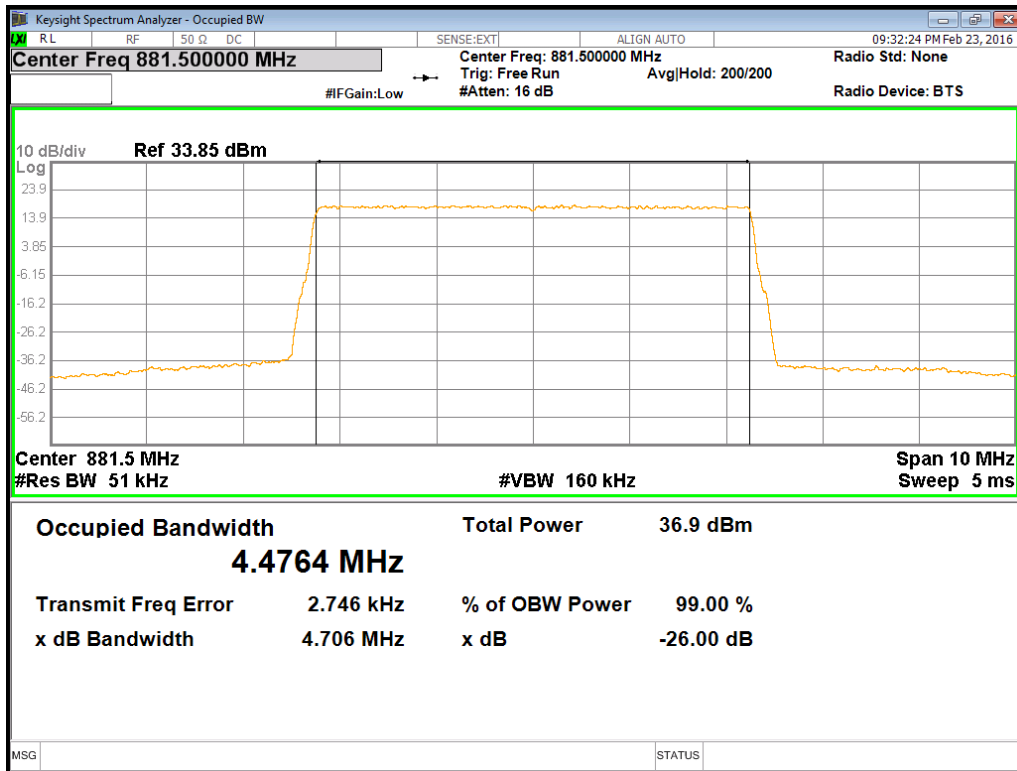
Channel Position M - 64QAM / Bandwidth 1.4 MHz



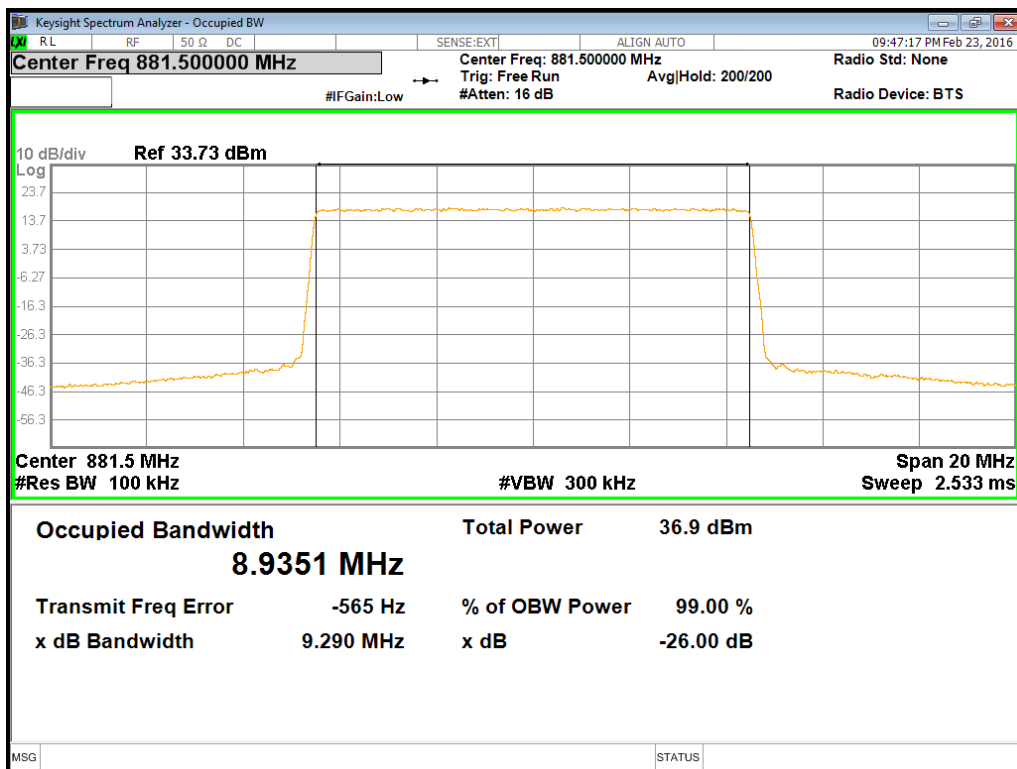
Channel Position M - 64QAM / Bandwidth 3.0 MHz



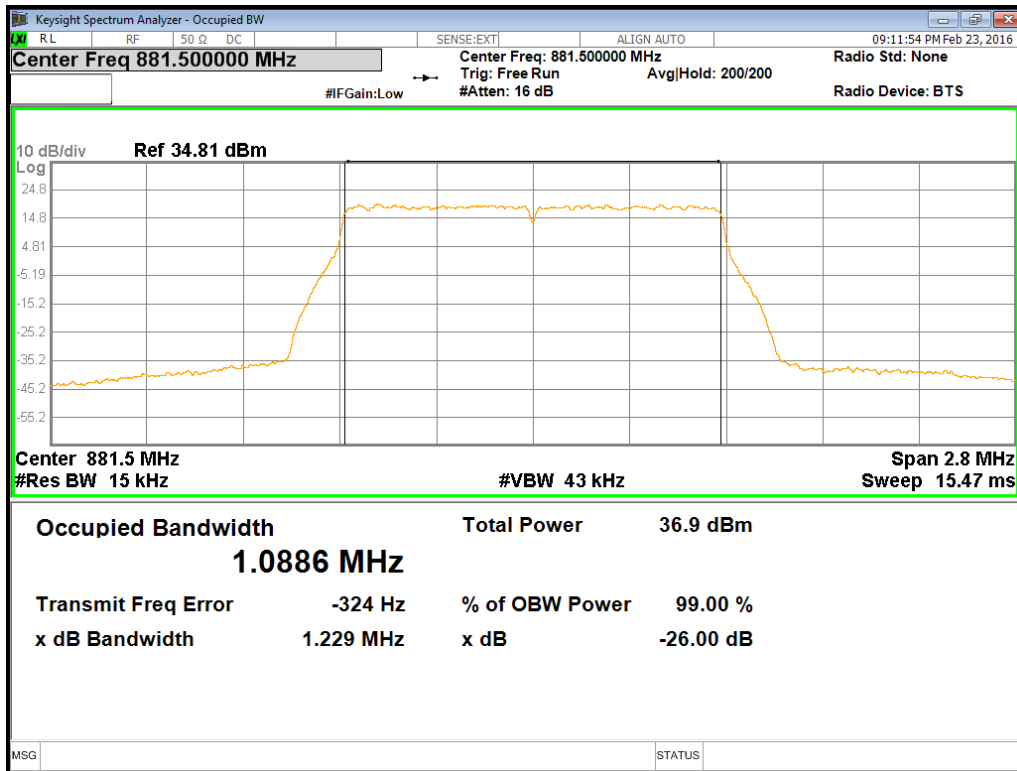
Channel Position M - 64QAM / Bandwidth 5.0 MHz



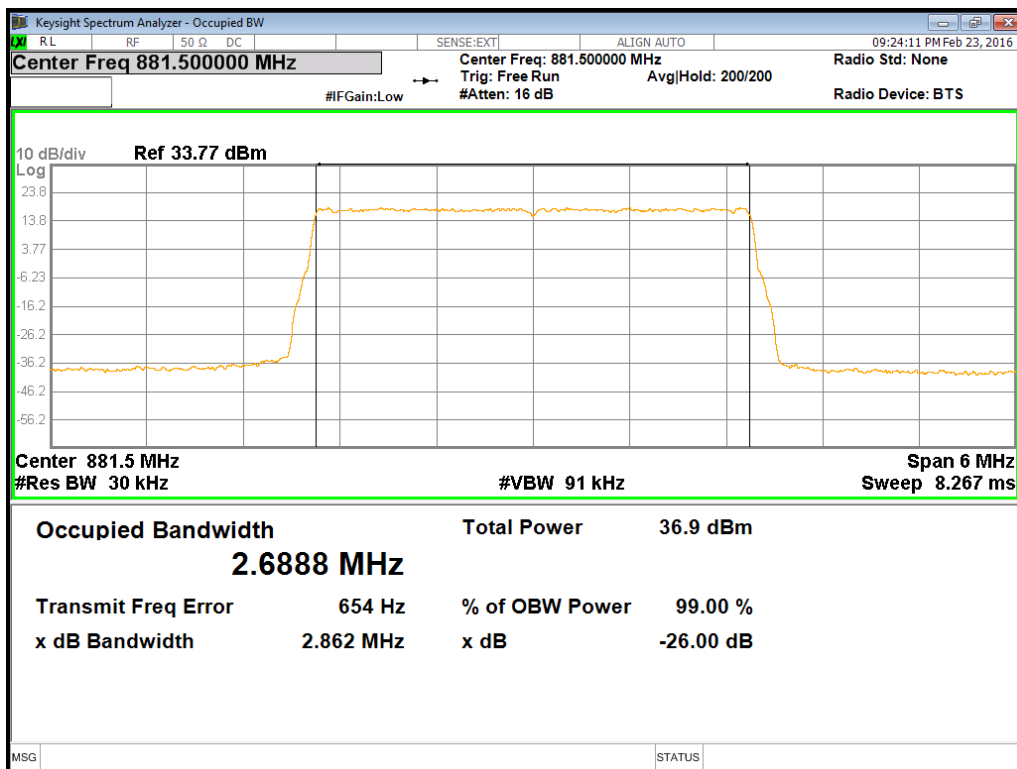
Channel Position M - 64QAM / Bandwidth 10.0 MHz



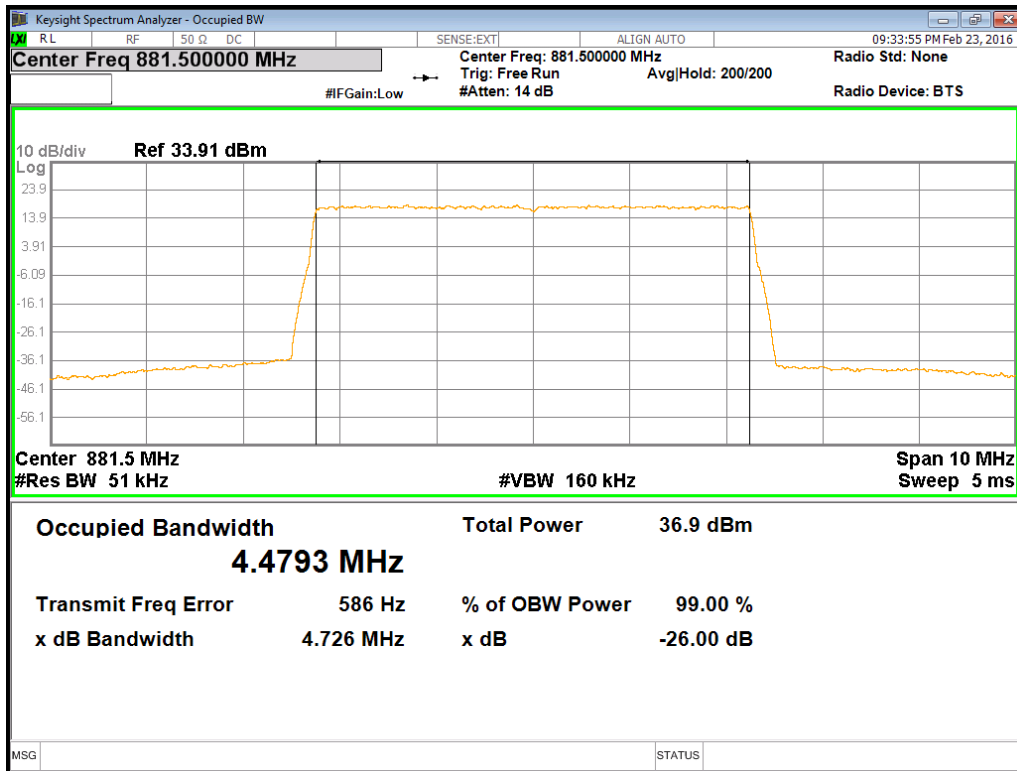
Channel Position M - 256QAM / Bandwidth 1.4 MHz



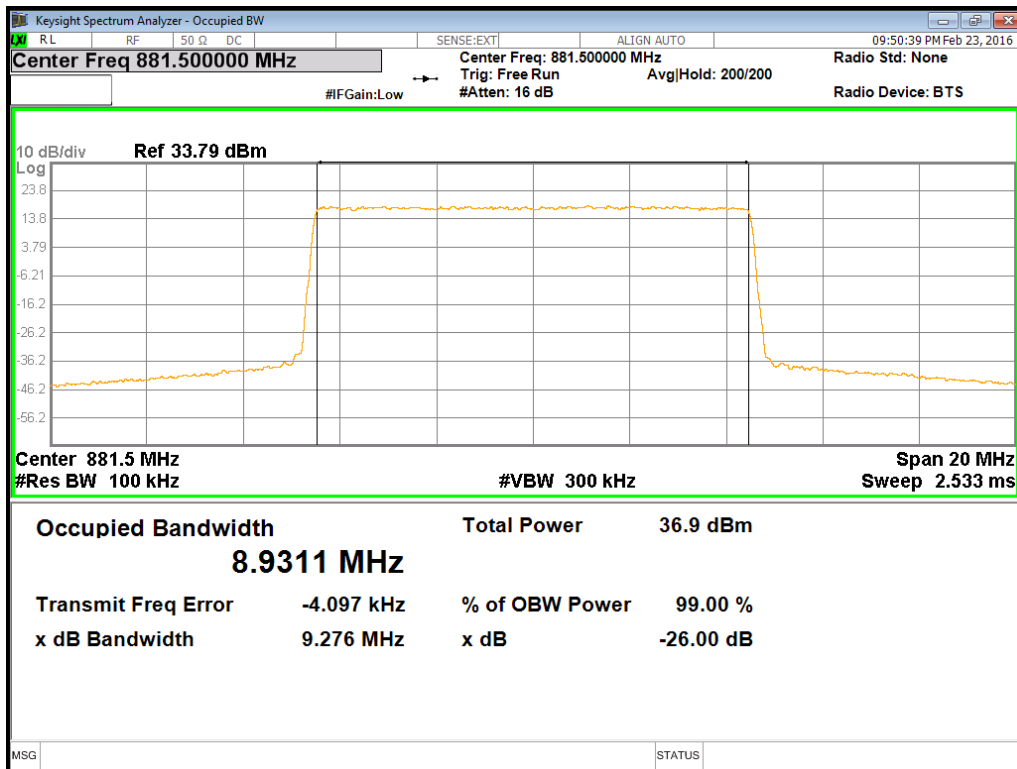
Channel Position M - 256QAM / Bandwidth 3.0 MHz



Channel Position M - 256QAM / Bandwidth 5.0 MHz



Channel Position M - 256QAM / Bandwidth 10.0 MHz



Configuration L-MIMO-MC 1(2C)

Maximum Output Power 37.0dBm per port

-26dBc Occupied Bandwidth for FCC requirement

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B _{RFBW}	Channel Position M _{RFBW}	Channel Position T _{RFBW}
	-	869.7MHz + 893.3MHz	-
QPSK / 1.4 MHz&1.4MHz	-	24.870	-
16QAM / 1.4 MHz&1.4MHz	-	24.870	-
64QAM / 1.4 MHz&1.4MHz	-	24.870	-
256QAM / 1.4 MHz&1.4MHz	-	24.870	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B _{RFBW}	Channel Position M _{RFBW}	Channel Position T _{RFBW}
	-	869.7MHz + 892.5MHz	-
QPSK / 1.4 MHz&3.0 MHz	-	24.870	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B _{RFBW}	Channel Position M _{RFBW}	Channel Position T _{RFBW}
	-	870.5MHz + 892.5MHz	-
QPSK / 3.0 MHz&3.0 MHz	-	24.880	-
16QAM / 3.0 MHz&3.0 MHz	-	24.870	-
64QAM / 3.0 MHz&3.0 MHz	-	24.880	-
56QAM / 3.0 MHz&3.0 MHz	-	24.880	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B _{RFBW}	Channel Position M _{RFBW}	Channel Position T _{RFBW}
	-	869.7MHz + 891.5MHz	-
QPSK / 1.4 MHz&5.0 MHz	-	24.750	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B _{RFBW}	Channel Position M _{RFBW}	Channel Position T _{RFBW}
	-	869.7MHz + 889.0MHz	-
QPSK / 1.4 MHz&10.0 MHz	-	24.500	-
16QAM / 1.4 MHz&10.0MHz	-	24.500	-
64QAM / 1.4 MHz&10.0MHz	-	24.500	-
256QAM / 1.4MHz&10.0MHz	-	24.500	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B _{RFBW}	Channel Position M _{RFBW}	Channel Position T _{RFBW}
	-	870.5MHz + 891.5MHz	-
QPSK / 3.0 MHz & 5.0 MHz	-	24.790	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B _{RFBW}	Channel Position M _{RFBW}	Channel Position T _{RFBW}
	-	870.5MHz + 889.0MHz	-
QPSK / 3.0 MHz & 10.0 MHz	-	24.520	-
16QAM / 3.0 MHz & 10.0 MHz	-	24.500	-
64QAM / 3.0 MHz & 10.0 MHz	-	24.520	-
256QAM / 3.0 MHz & 10.0 MHz	-	24.530	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B _{RFBW}	Channel Position M _{RFBW}	Channel Position T _{RFBW}
	-	871.5MHz + 891.5MHz	-
QPSK / 5.0 MHz & 5.0 MHz	-	24.740	-
16QAM / 5.0 MHz & 5.0 MHz	-	24.740	-
64QAM / 5.0 MHz & 5.0 MHz	-	24.750	-
256QAM / 5.0 MHz & 5.0 MHz	-	24.750	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B _{RFBW}	Channel Position M _{RFBW}	Channel Position T _{RFBW}
	-	871.5MHz + 889.0MHz	-
QPSK / 5.0 MHz & 10.0 MHz	-	24.490	-
16QAM / 5.0 MHz & 10.0 MHz	-	24.490	-
64QAM / 5.0 MHz & 10.0 MHz	-	24.490	-
256QAM / 5.0 MHz & 10.0 MHz	-	24.490	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B _{RFBW}	Channel Position M _{RFBW}	Channel Position T _{RFBW}
	-	874.0MHz + 889.0MHz	-
QPSK / 10.0 MHz & 10.0 MHz	-	24.250	-
16QAM / 10.0 MHz & 10.0 MHz	-	24.350	-
64QAM / 10.0 MHz & 10.0 MHz	-	24.380	-
256QAM / 10.0 MHz & 10.0 MHz	-	24.360	-

-99% Occupied Bandwidth for IC requirement

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B _{RFBW}	Channel Position M _{RFBW}	Channel Position T _{RFBW}
	-	869.7MHz + 893.3MHz	-
QPSK / 1.4 MHz&1.4 MHz	-	24.677	-
16QAM / 1.4 MHz&1.4 MHz	-	24.674	-
64QAM / 1.4 MHz&1.4 MHz	-	24.677	-
256QAM / 1.4 MHz&1.4MHz	-	24.675	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B _{RFBW}	Channel Position M _{RFBW}	Channel Position T _{RFBW}
	-	869.7MHz + 892.5MHz	-
QPSK / 1.4 MHz&3.0 MHz	-	24.665	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B _{RFBW}	Channel Position M _{RFBW}	Channel Position T _{RFBW}
	-	870.5MHz + 892.5MHz	-
QPSK / 3.0 MHz&3.0 MHz	-	24.660	-
16QAM / 3.0 MHz&3.0 MHz	-	24.660	-
64QAM / 3.0 MHz&3.0 MHz	-	24.661	-
256QAM / 3.0 MHz&3.0MHz	-	24.660	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B _{RFBW}	Channel Position M _{RFBW}	Channel Position T _{RFBW}
	-	869.7MHz + 891.5MHz	-
QPSK / 1.4 MHz&5.0 MHz	-	24.541	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B _{RFBW}	Channel Position M _{RFBW}	Channel Position T _{RFBW}
	-	869.7MHz + 889.0MHz	-
QPSK / 1.4 MHz&10.0 MHz	-	24.239	-
16QAM / 1.4 MHz&10.0 MHz	-	24.234	-
64QAM / 1.4 MHz&10.0 MHz	-	24.237	-
256QAM / 1.4 MHz&10.0 MHz	-	24.239	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B _{RFBW}	Channel Position M _{RFBW}	Channel Position T _{RFBW}
	-	870.5MHz + 891.5MHz	-
QPSK / 3.0 MHz&5.0 MHz	-	24.534	-

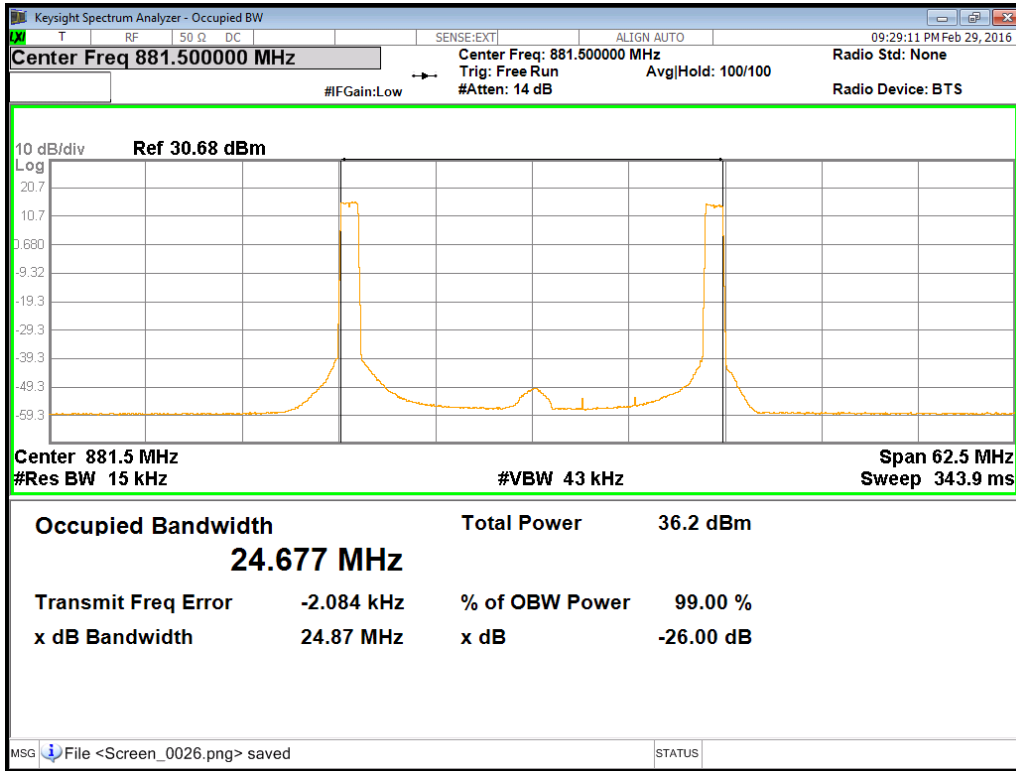
Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B _{RFBW}	Channel Position M _{RFBW}	Channel Position T _{RFBW}
	-	870.5MHz + 889.0MHz	-
QPSK / 3.0 MHz & 10.0 MHz	-	24.230	-
16QAM / 3.0 MHz & 10.0 MHz	-	24.220	-
64QAM / 3.0 MHz & 10.0 MHz	-	24.224	-
256QAM / 3.0 MHz & 10.0 MHz	-	24.230	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B _{RFBW}	Channel Position M _{RFBW}	Channel Position T _{RFBW}
	-	871.5MHz + 891.5MHz	-
QPSK / 5.0 MHz & 5.0 MHz	-	24.419	-
16QAM / 5.0 MHz & 5.0 MHz	-	24.395	-
64QAM / 5.0 MHz & 5.0 MHz	-	24.423	-
256QAM / 5.0 MHz & 5.0 MHz	-	24.419	-

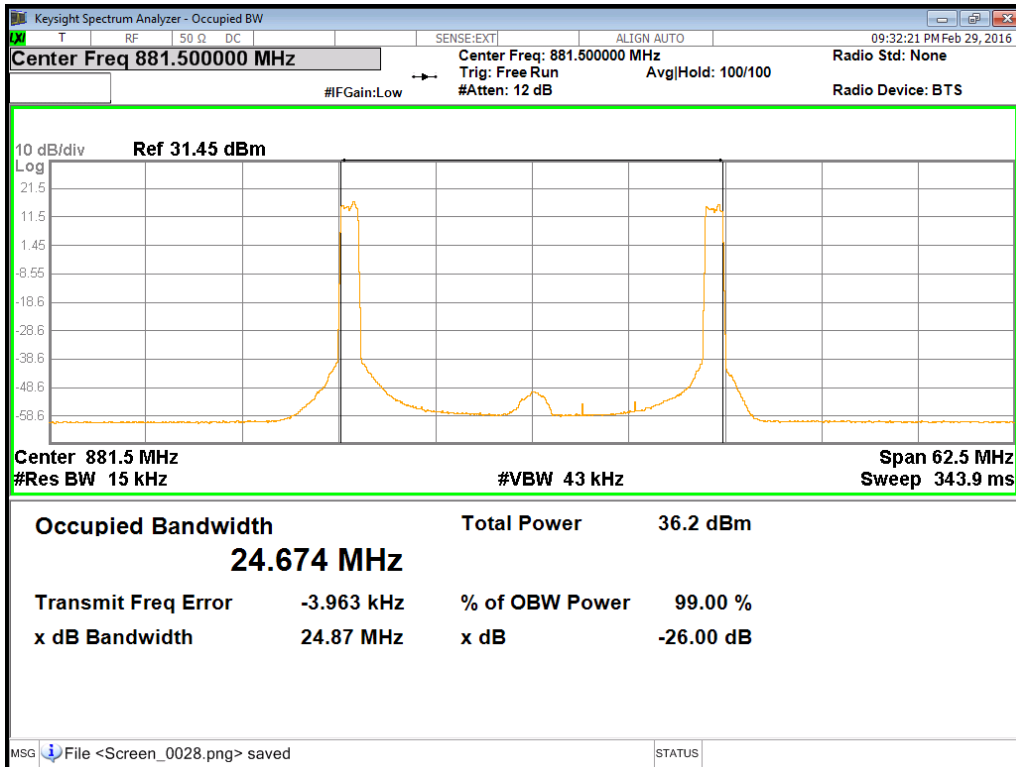
Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B _{RFBW}	Channel Position M _{RFBW}	Channel Position T _{RFBW}
	-	871.5MHz + 889.0MHz	-
QPSK / 5.0 MHz & 10.0 MHz	-	24.112	-
16QAM / 5.0 MHz & 10.0 MHz	-	24.091	-
64QAM / 5.0 MHz & 10.0 MHz	-	24.104	-
256QAM / 5.0 MHz & 10.0 MHz	-	24.109	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B _{RFBW}	Channel Position M _{RFBW}	Channel Position T _{RFBW}
	-	874.0MHz + 889.0MHz	-
QPSK / 10.0 MHz & 10.0 MHz	-	23.817	-
16QAM / 10.0 MHz & 10.0 MHz	-	23.801	-
64QAM / 10.0 MHz & 10.0 MHz	-	23.801	-
256QAM / 10.0 MHz & 10.0 MHz	-	23.830	-

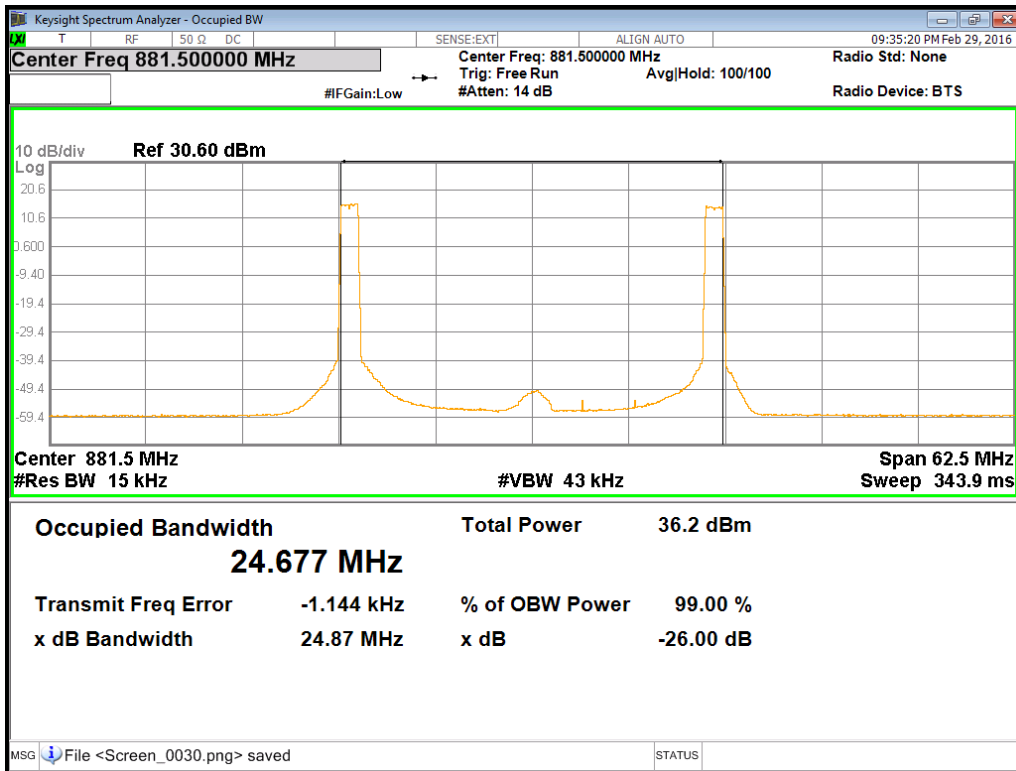
Channel Position M_{RFBW} - QPSK / Bandwidth 1.4 MHz&1.4MHz



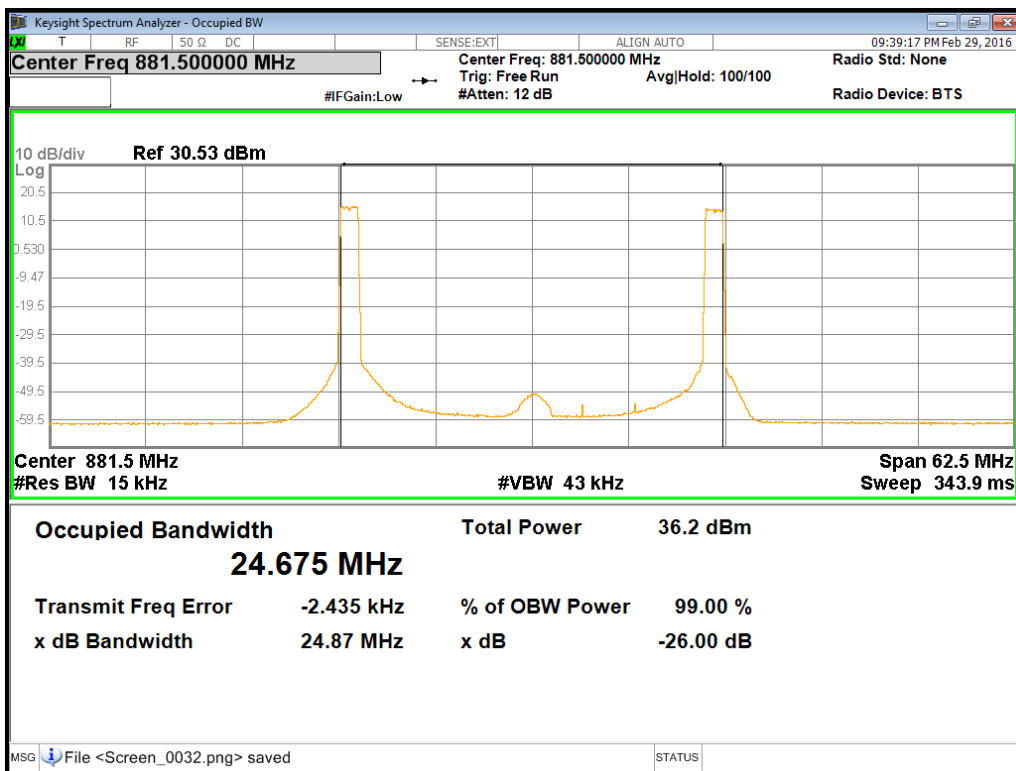
Channel Position M_{RFBW} - 16QAM / Bandwidth 1.4 MHz&1.4MHz



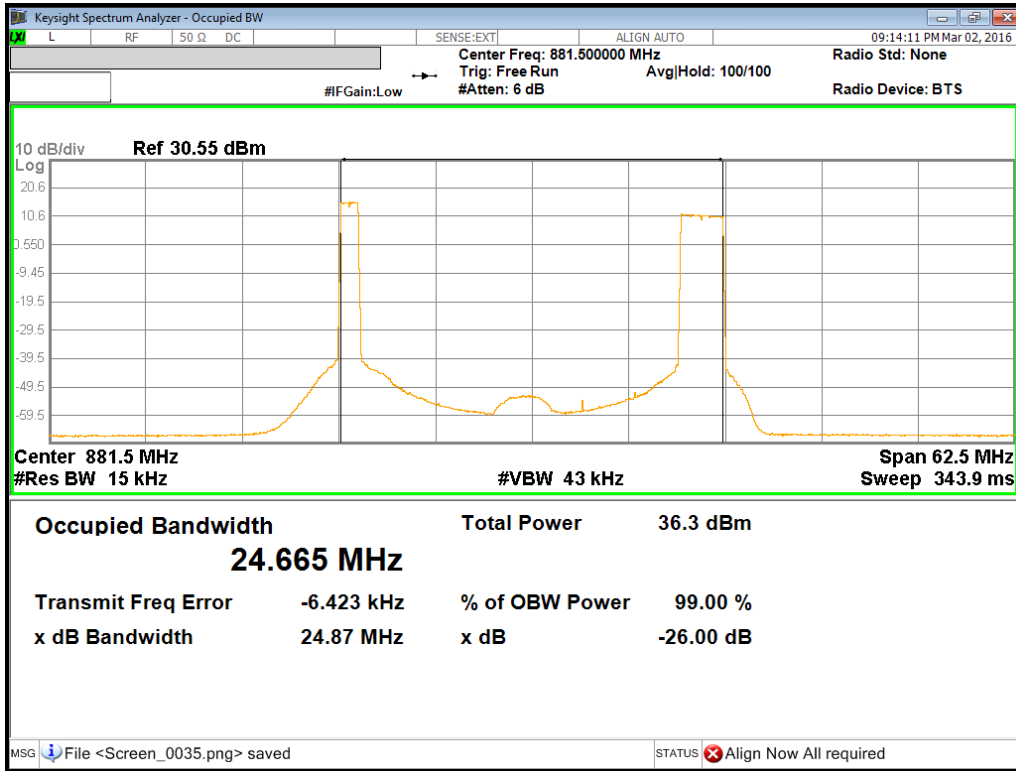
Channel Position M_{RFBW} – 64QAM/ Bandwidth 1.4 MHz&1.4MHz



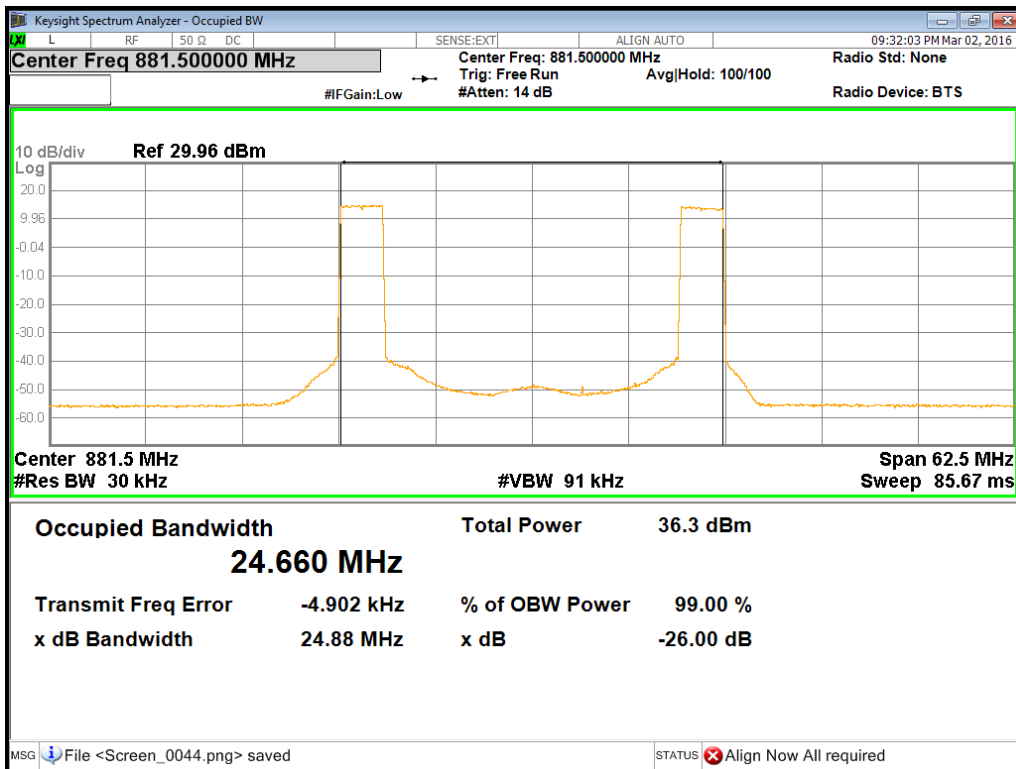
Channel Position M_{RFBW} – 256QAM / Bandwidth 1.4 MHz&1.4MHz



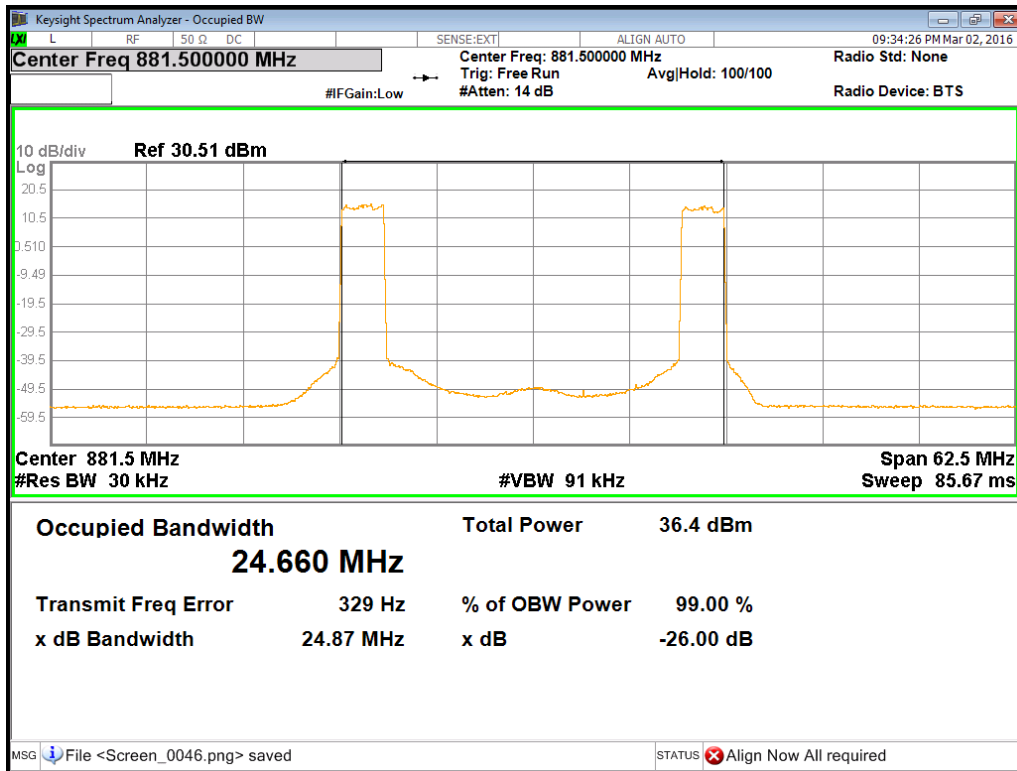
Channel Position M_{RFBW} - QPSK / Bandwidth 1.4 MHz&3.0MHz



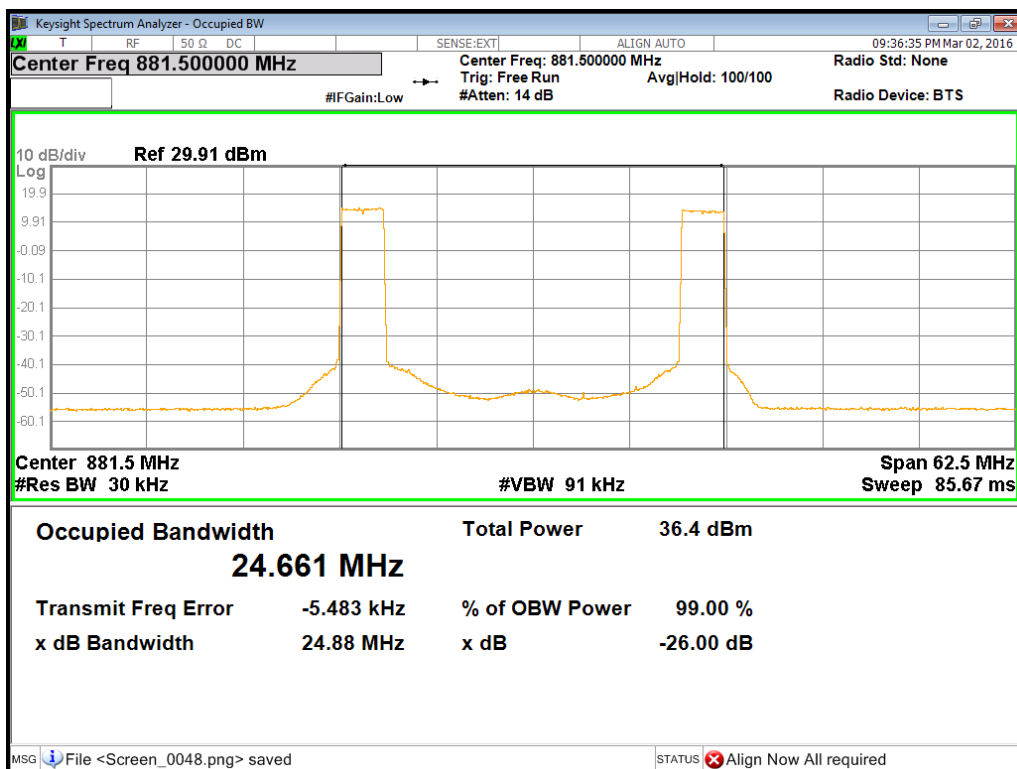
Channel Position M_{RFBW} - QPSK / Bandwidth 3.0 MHz&3.0MHz



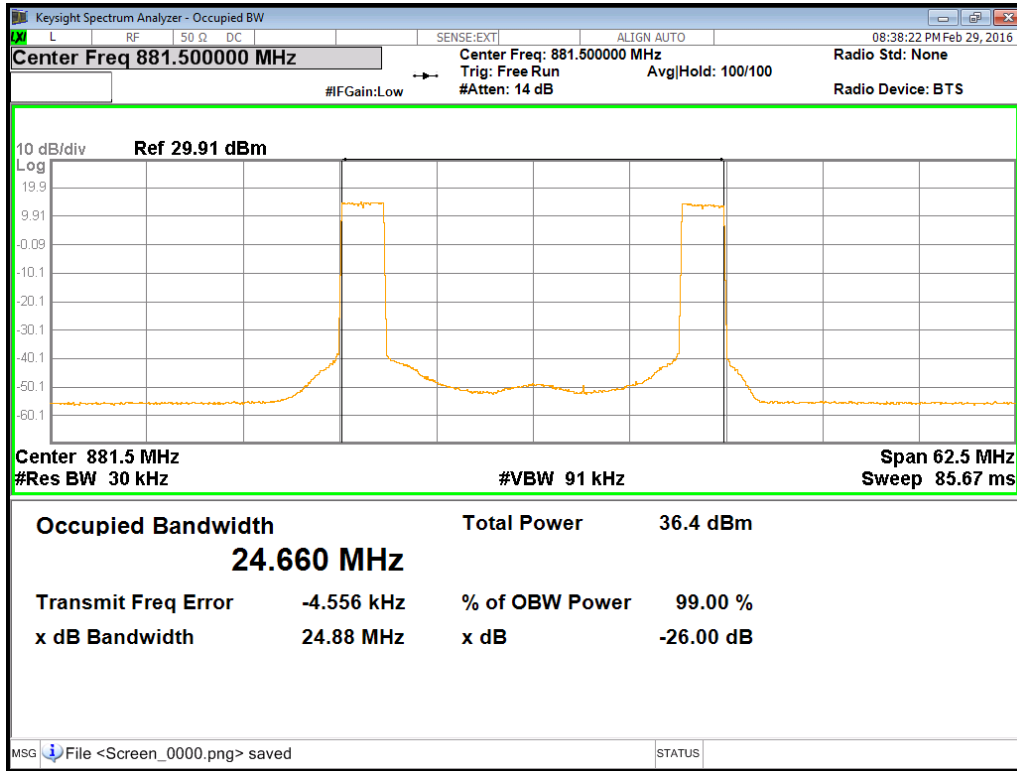
Channel Position M_{RFBW} – 16QAM / Bandwidth 3.0 MHz&3.0MHz



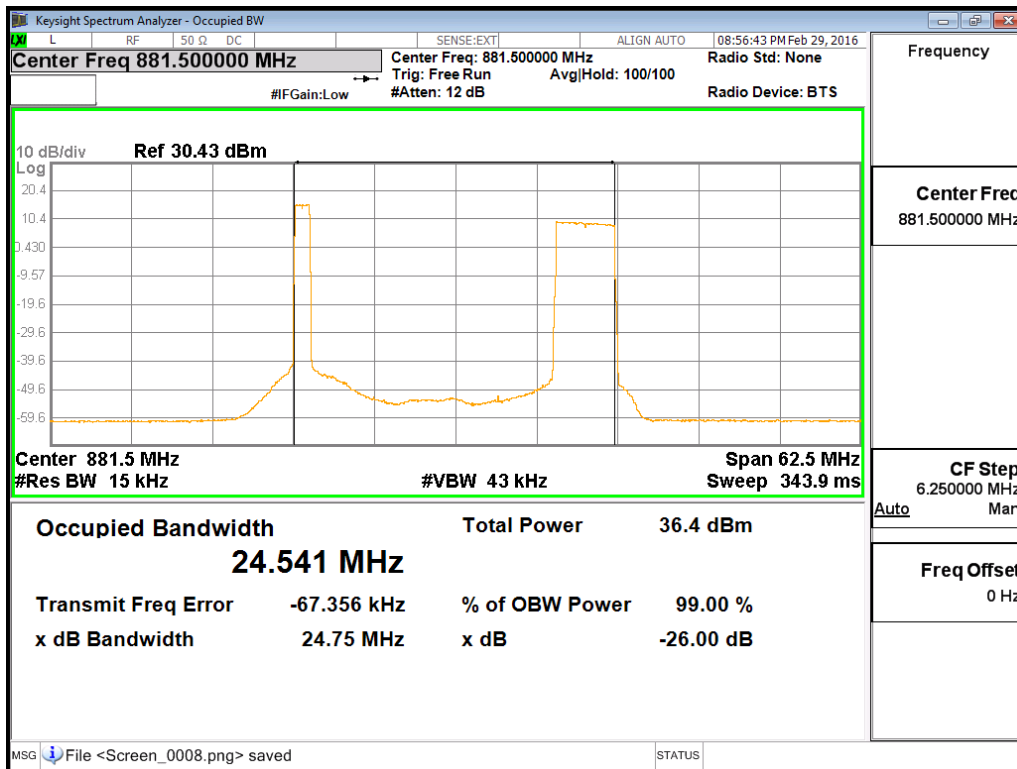
Channel Position M_{RFBW} – 64QAM/ Bandwidth 3.0 MHz&3.0MHz



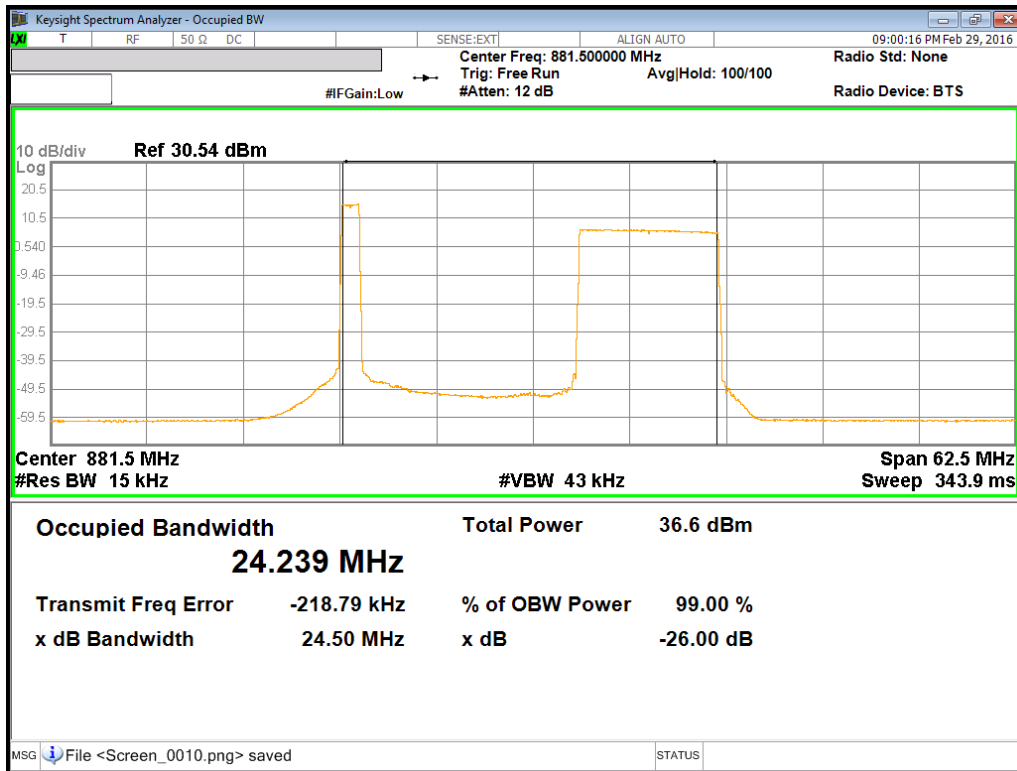
Channel Position M_{RFBW} – 256QAM / Bandwidth 3.0 MHz&3.0MHz



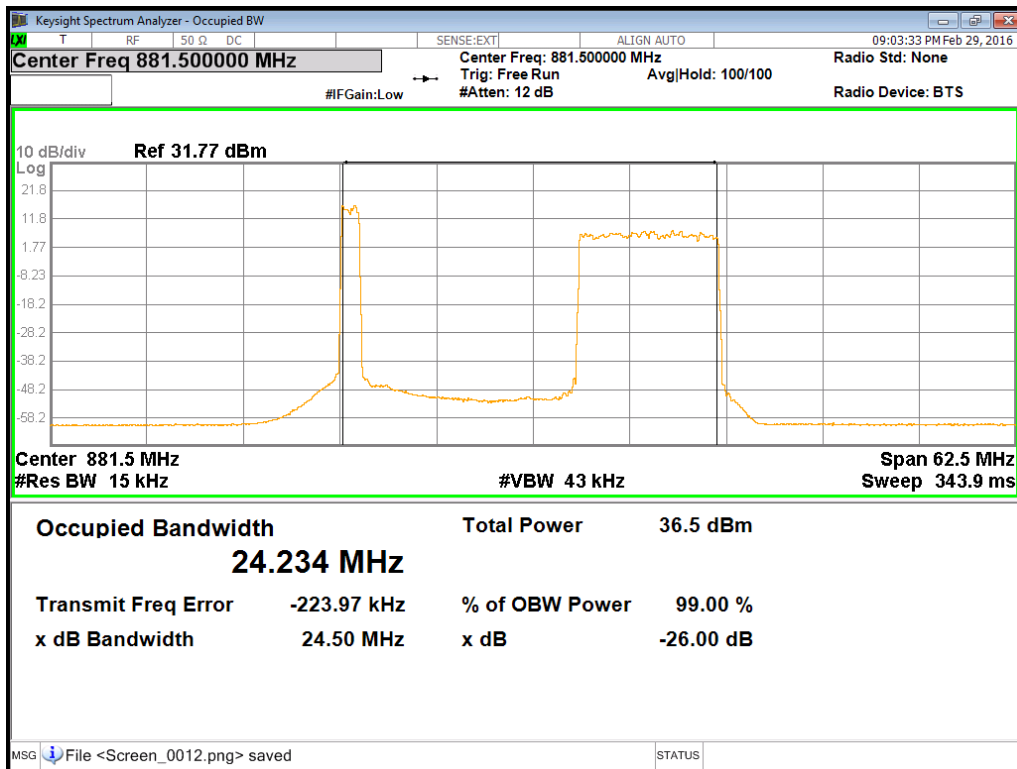
Channel Position M_{RFBW} - QPSK / Bandwidth 1.4 MHz&5.0MHz



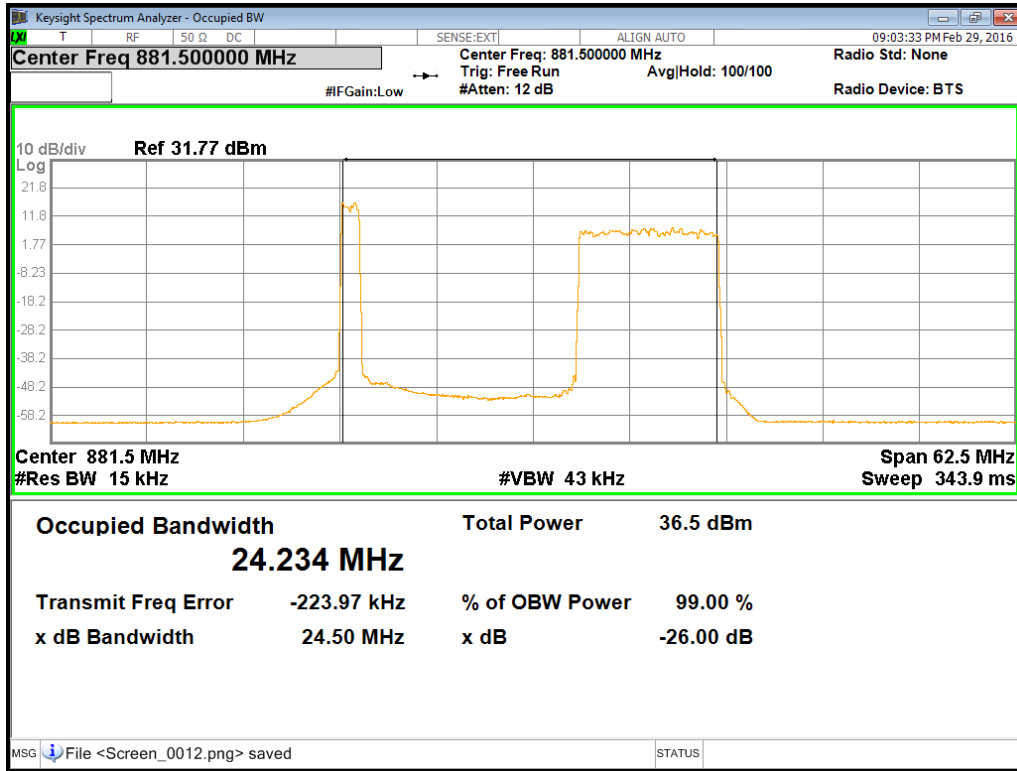
Channel Position M_{RFBW} - QPSK / Bandwidth 1.4 MHz&10.0MHz



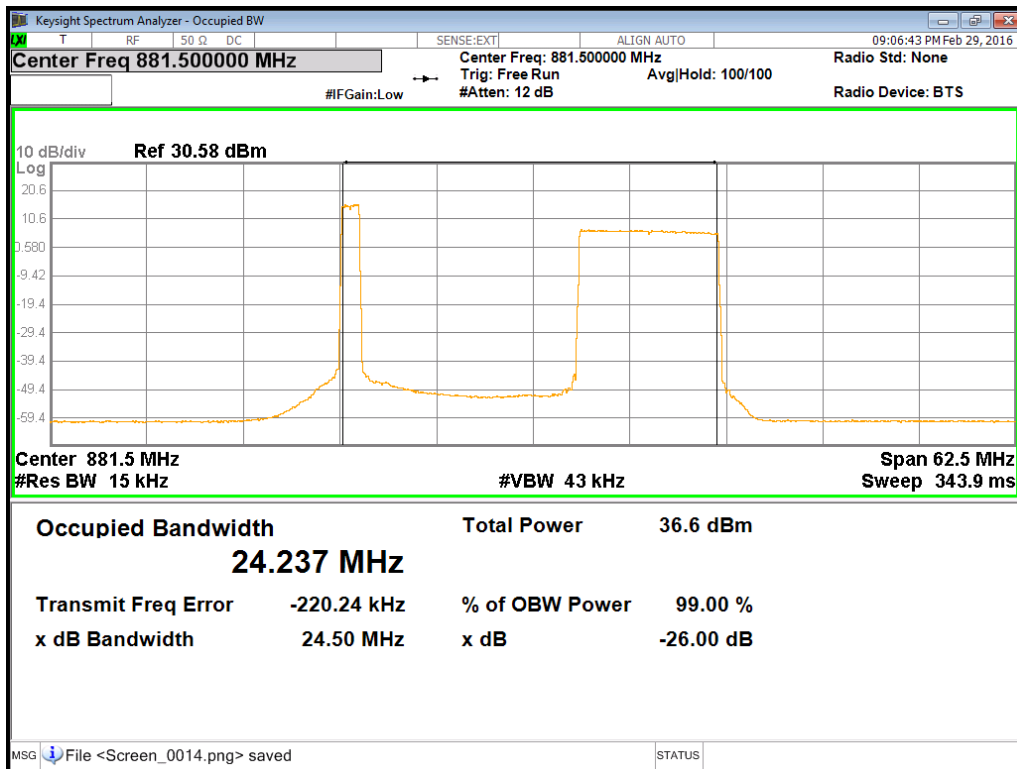
Channel Position M_{RFBW} - 16QAM / Bandwidth 1.4 MHz&10.0MHz



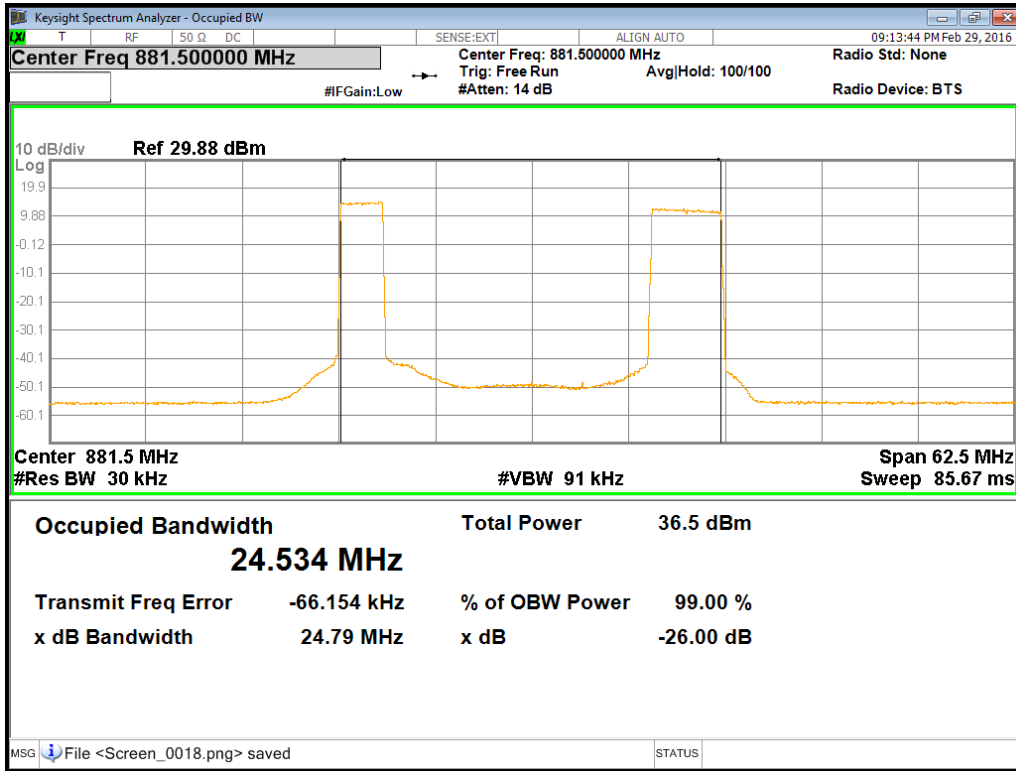
Channel Position M_{RFBW} – 64QAM/ Bandwidth 1.4 MHz&10.0MHz



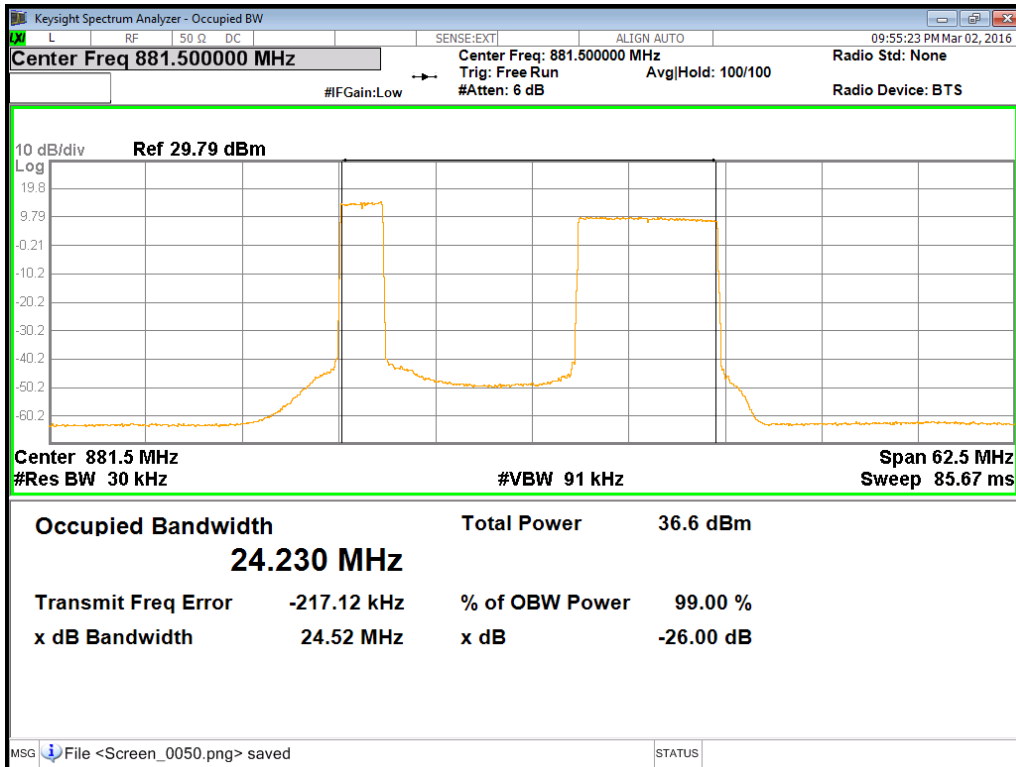
Channel Position M_{RFBW} – 256QAM / Bandwidth 1.4 MHz&10.0MHz



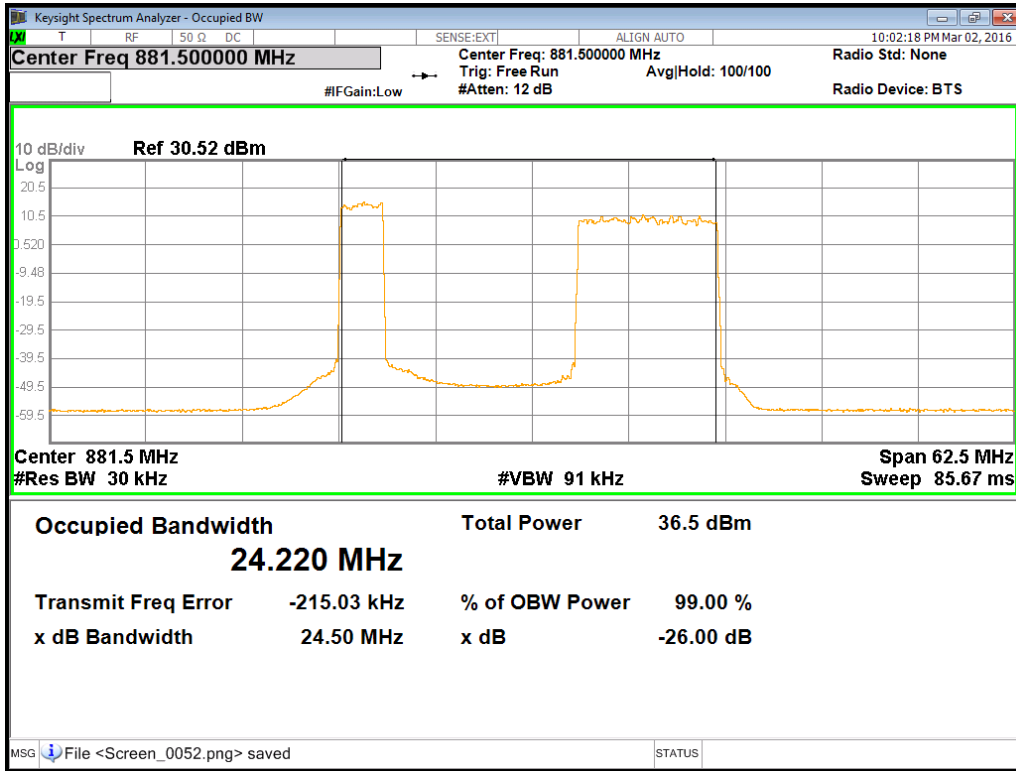
Channel Position M_{RFBW} - QPSK / Bandwidth 3.0 MHz&5.0MHz



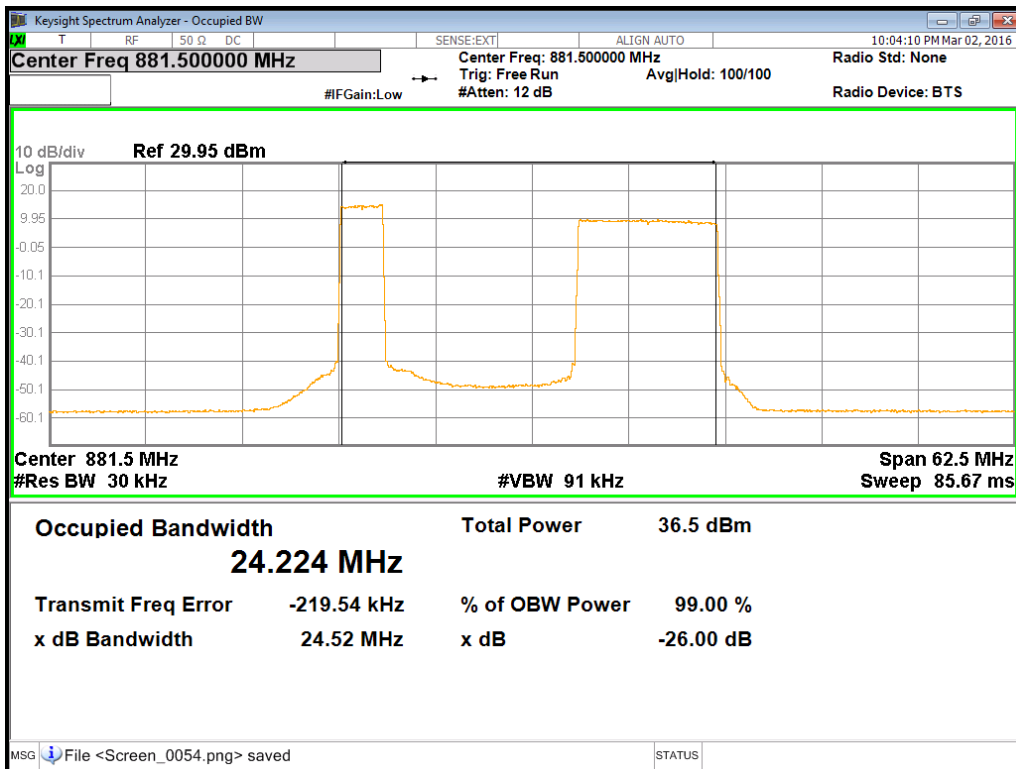
Channel Position M_{RFBW} - QPSK / Bandwidth 3.0 MHz&10.0MHz



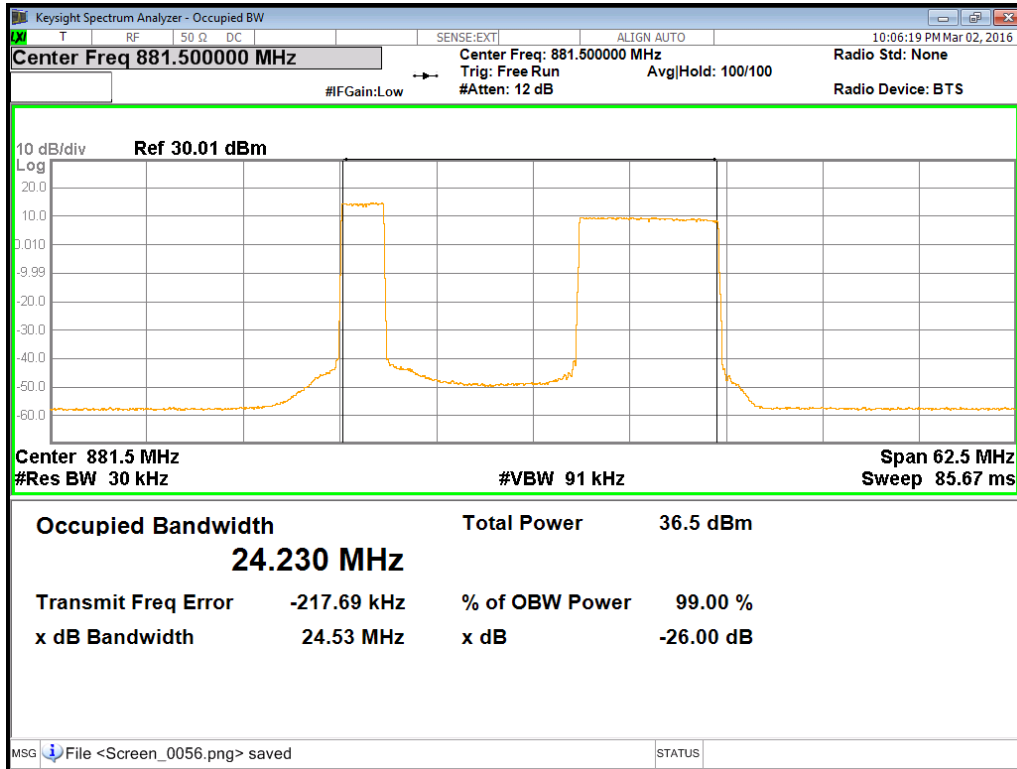
Channel Position M_{RFBW} – 16QAM / Bandwidth 3.0 MHz&10.0MHz



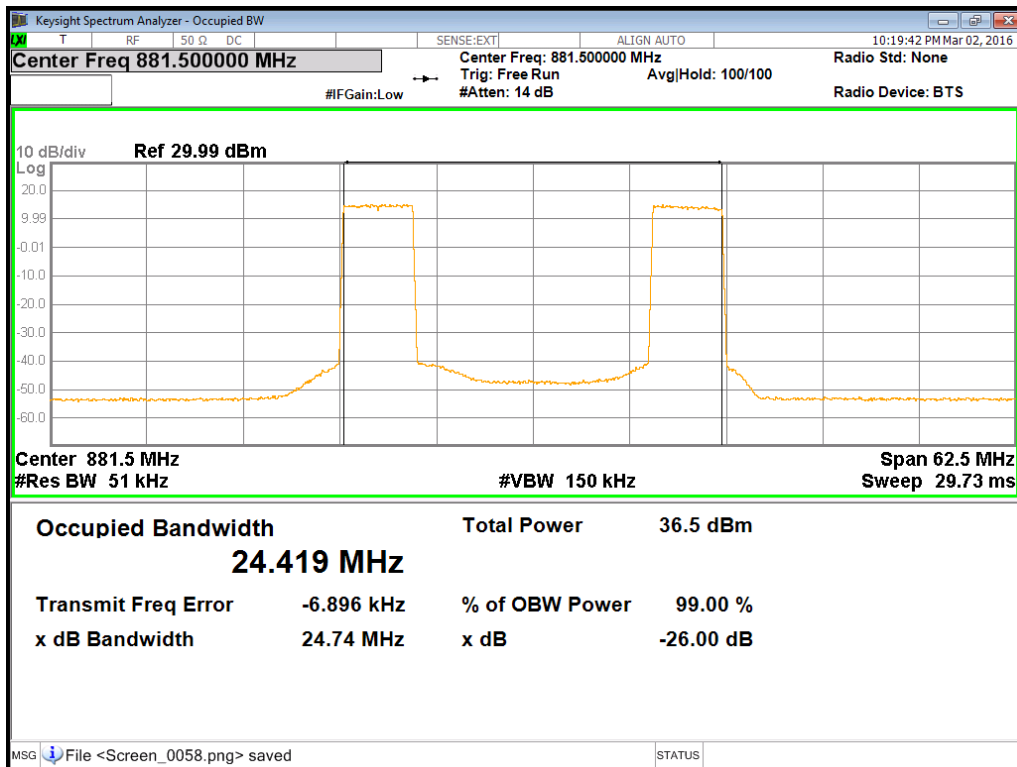
Channel Position M_{RFBW} – 64QAM/ Bandwidth 3.0 MHz&10.0MHz



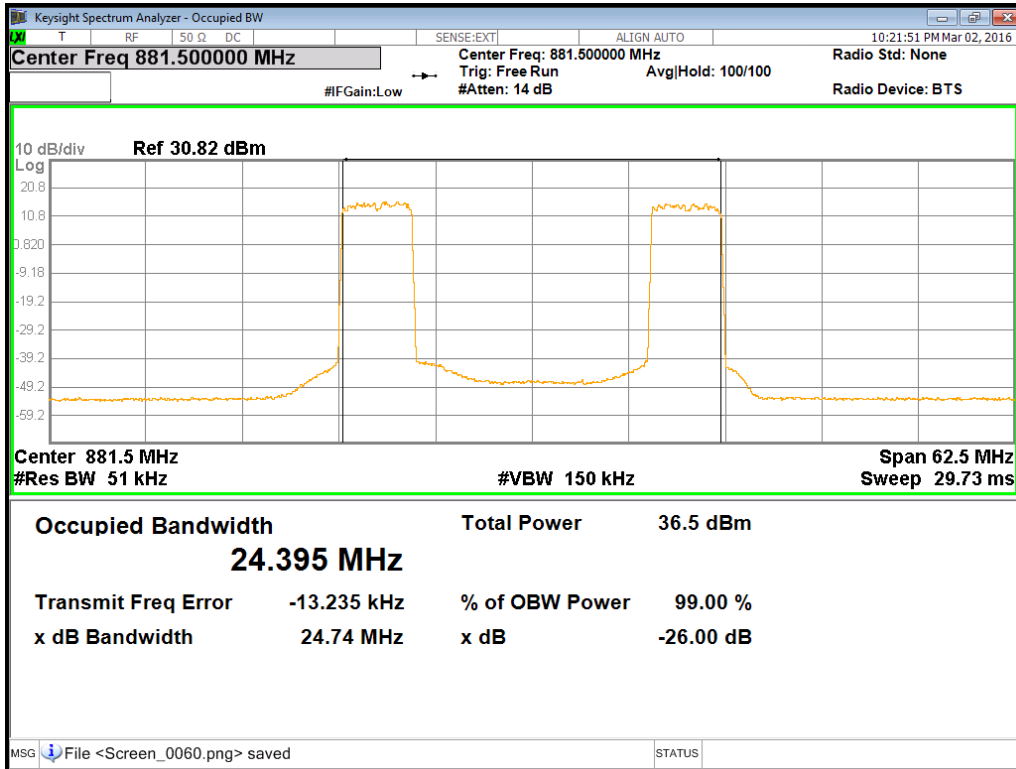
Channel Position M_{RFBW} – 256QAM / Bandwidth 3.0 MHz&10.0MHz



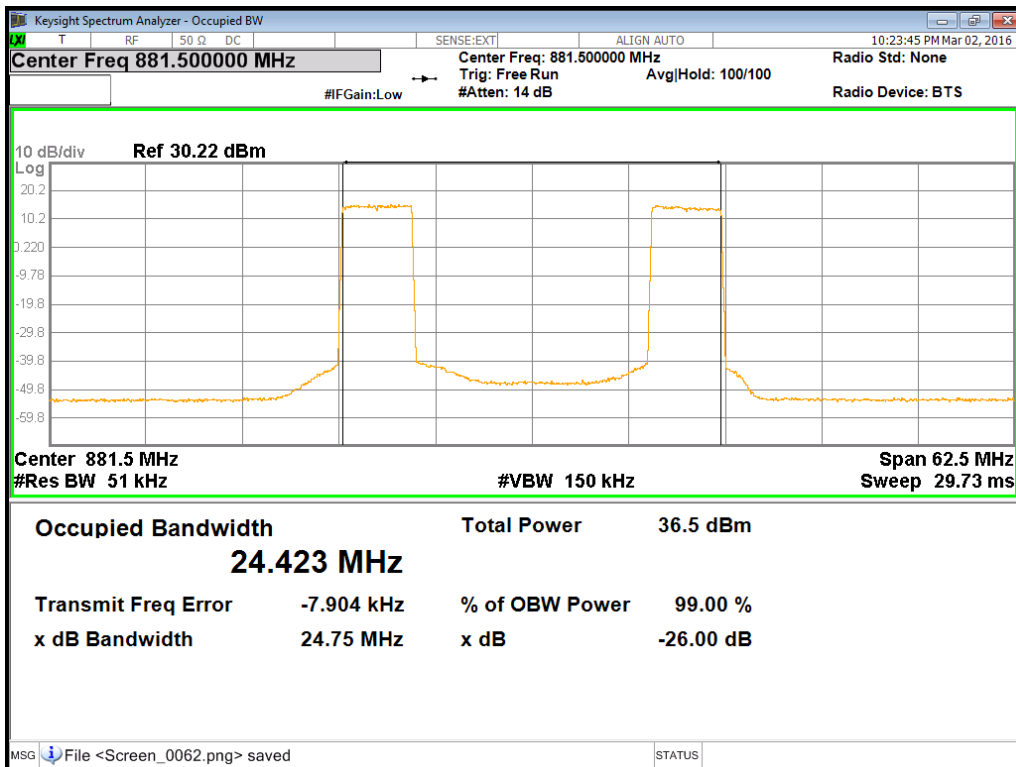
Channel Position M_{RFBW} - QPSK / Bandwidth 5.0 MHz&5.0MHz



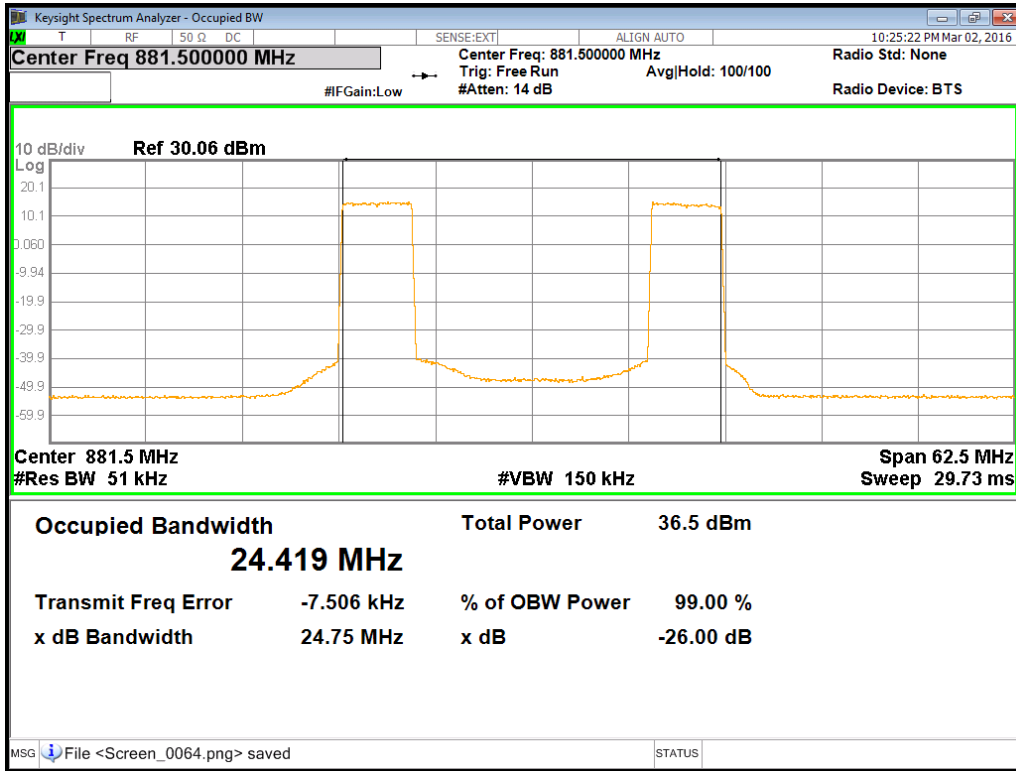
Channel Position M_{RFBW} – 16QAM / Bandwidth 5.0 MHz&5.0MHz



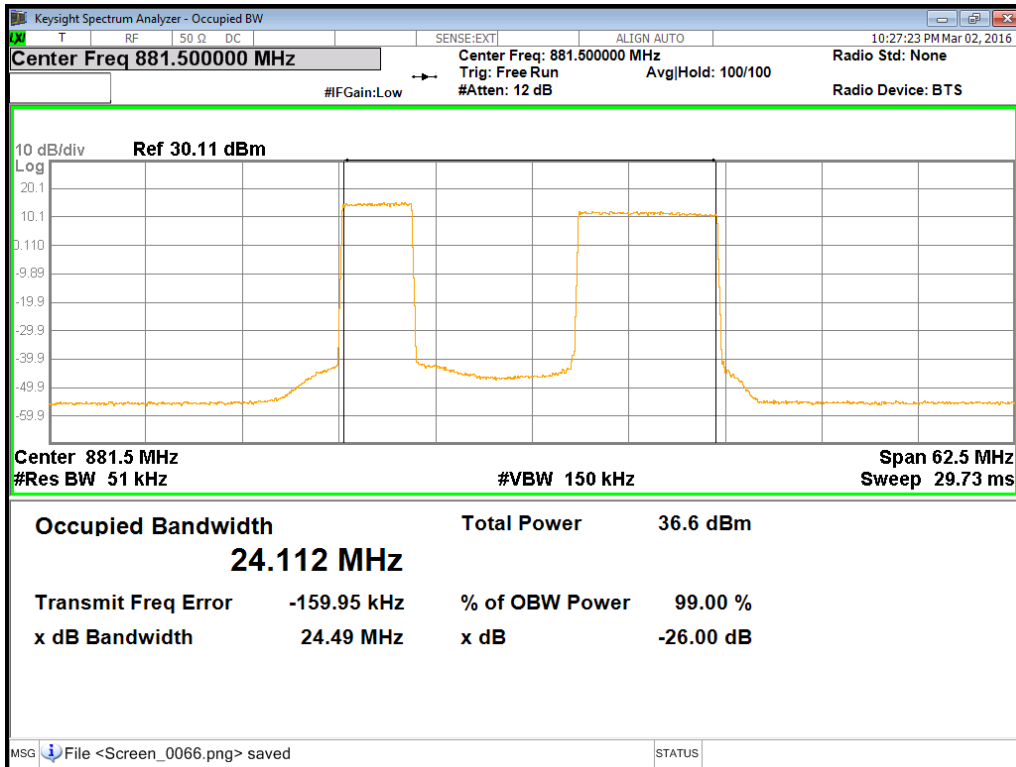
Channel Position M_{RFBW} – 64QAM/ Bandwidth 5.0 MHz&5.0MHz



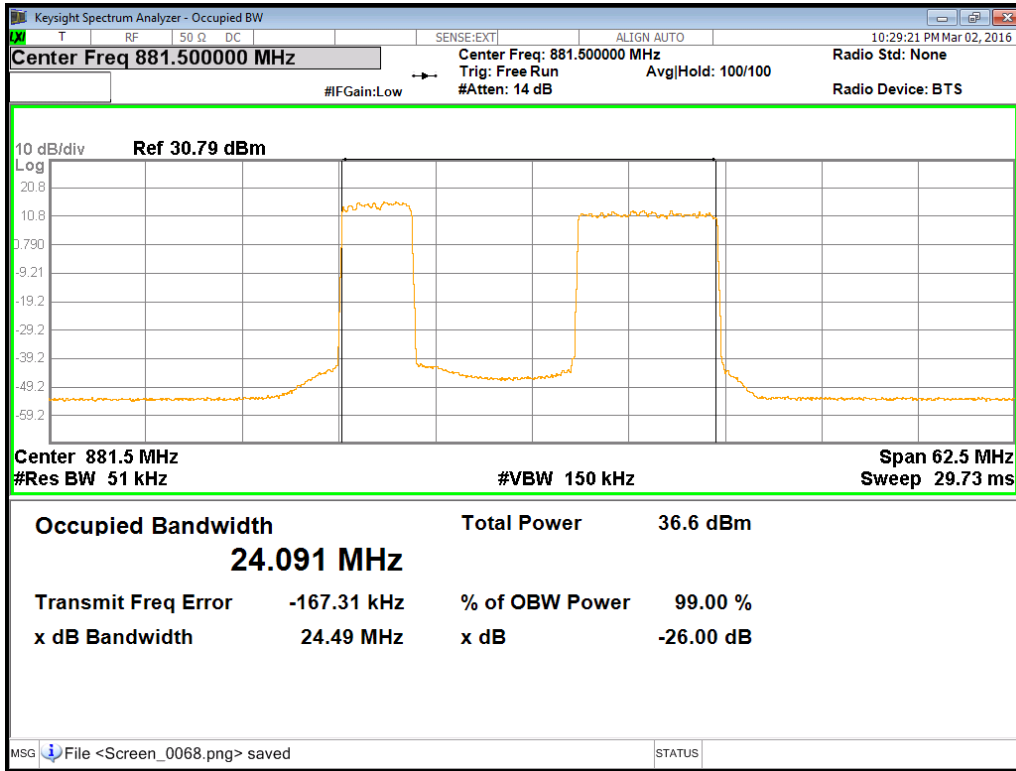
Channel Position M_{RFBW} – 256QAM / Bandwidth 5.0 MHz&5.0MHz



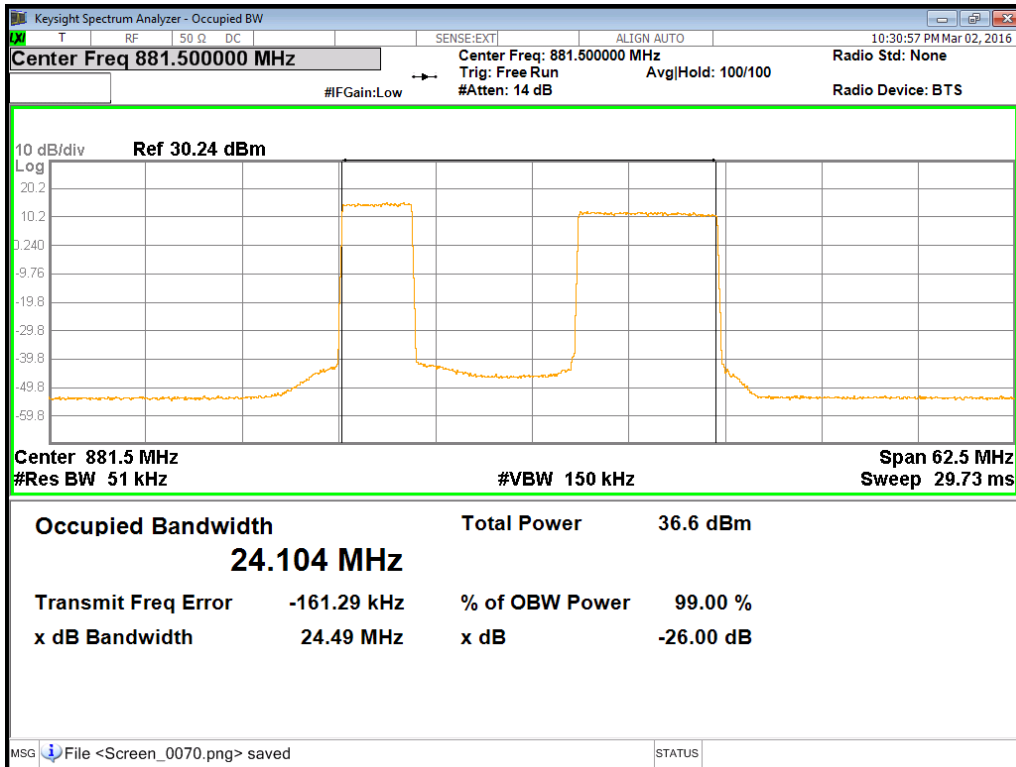
Channel Position M_{RFBW} - QPSK / Bandwidth 5.0 MHz&10.0MHz



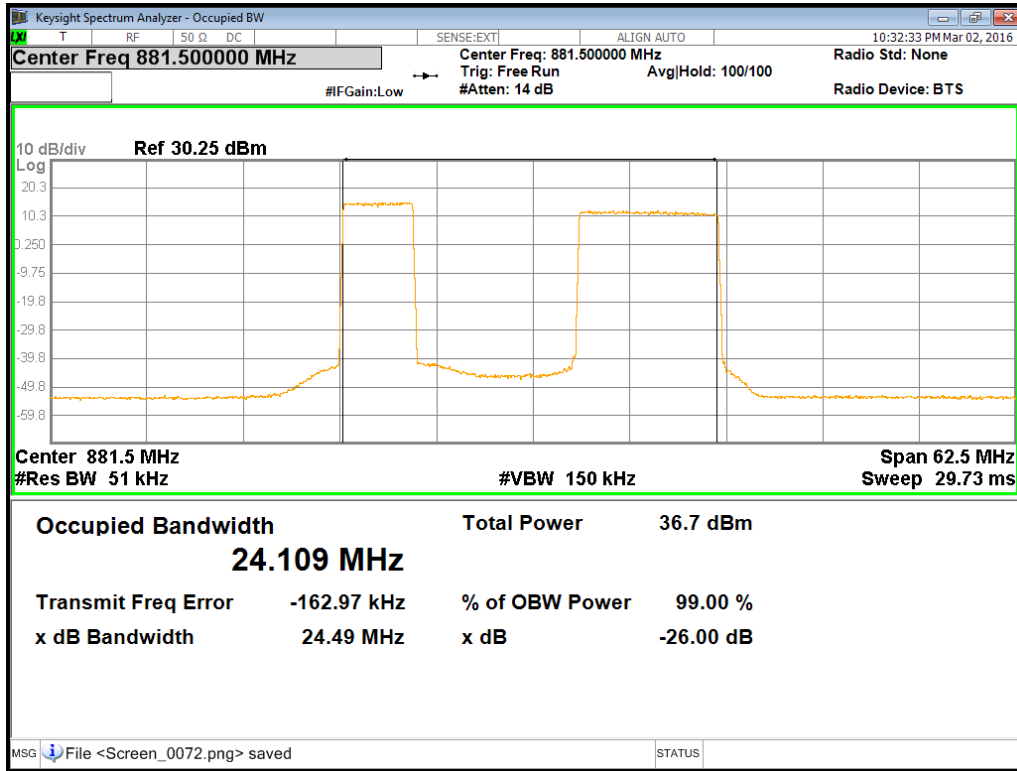
Channel Position M_{RFBW} – 16QAM / Bandwidth 5.0 MHz&10.0MHz



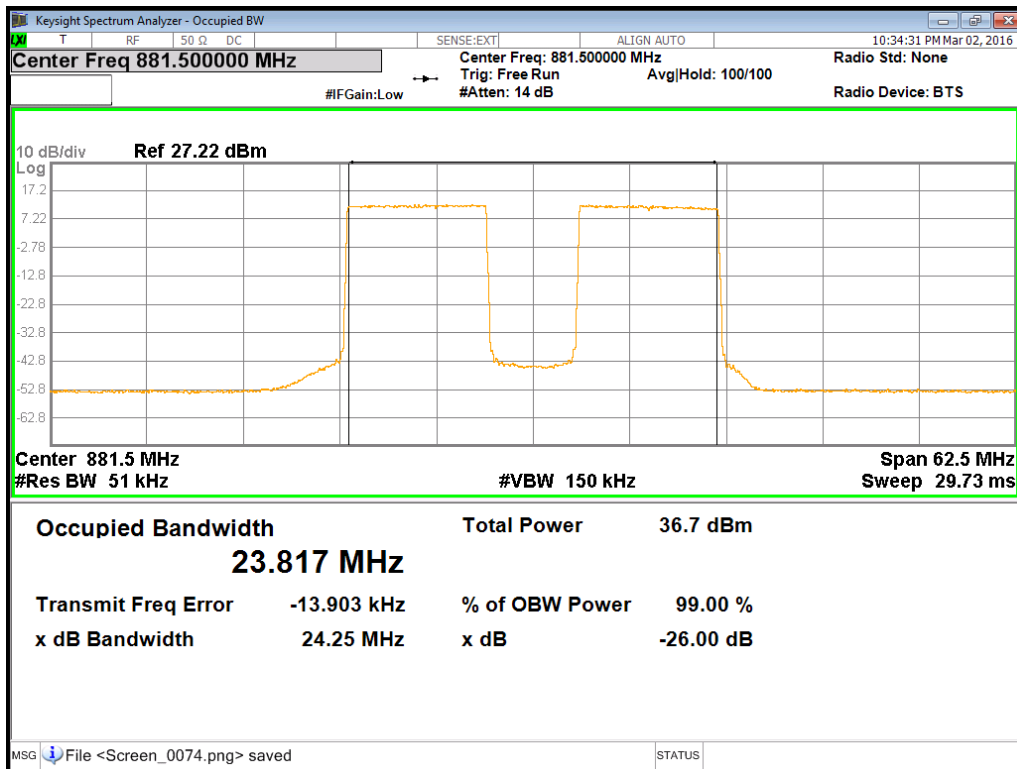
Channel Position M_{RFBW} – 64QAM/ Bandwidth 5.0 MHz&10.0MHz



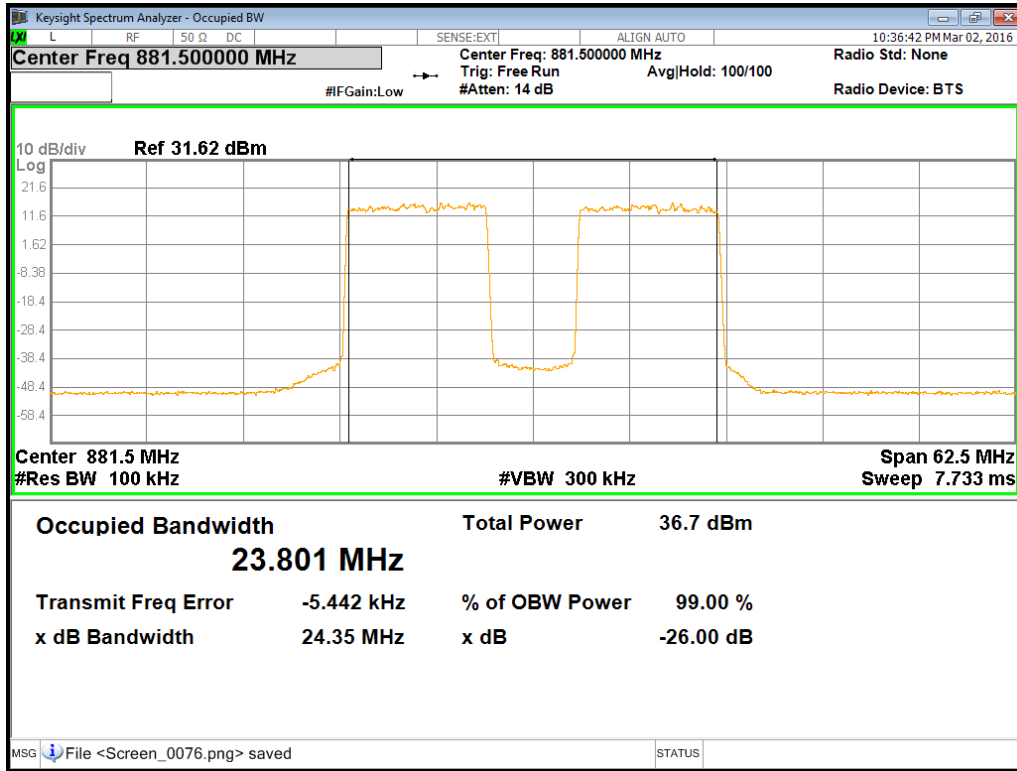
Channel Position M_{RFBW} – 256QAM / Bandwidth 5.0 MHz&10.0MHz



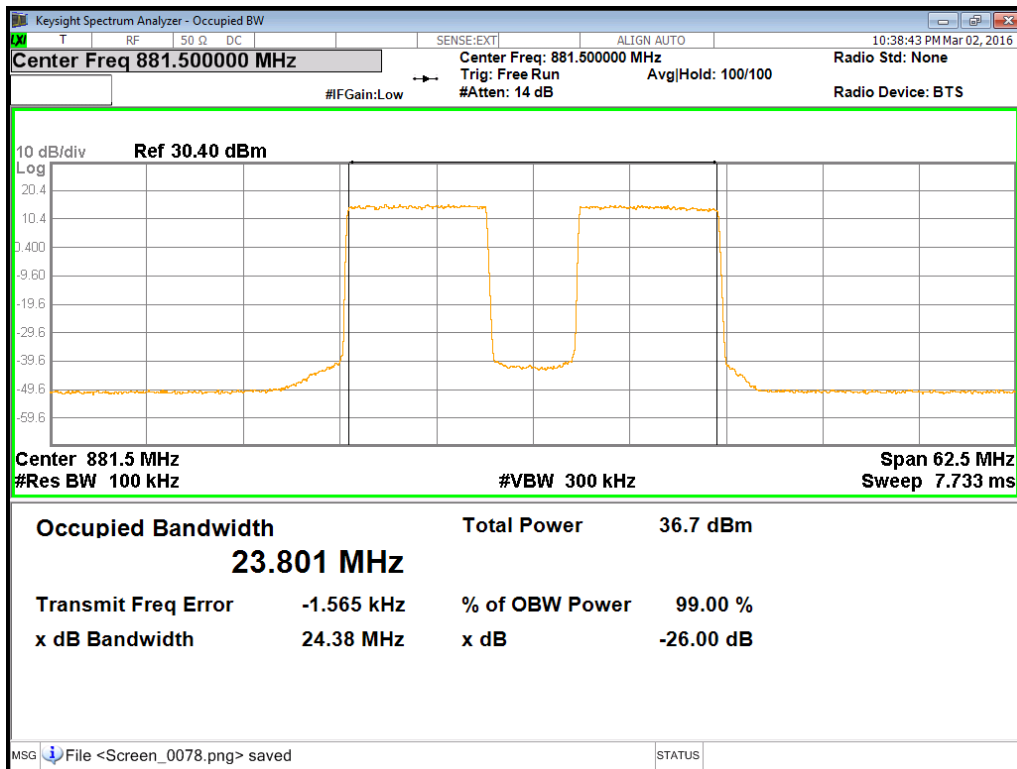
Channel Position M_{RFBW} - QPSK / Bandwidth 10.0 MHz&10.0MHz



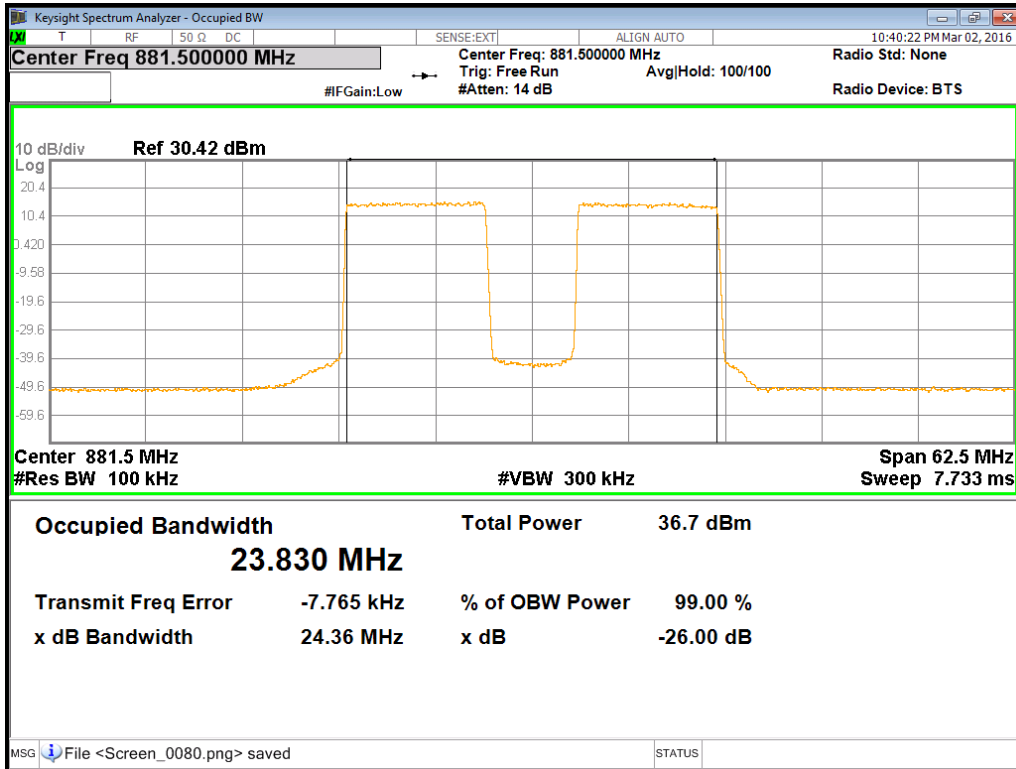
Channel Position M_{RFBW} – 16QAM / Bandwidth 10.0 MHz&10.0MHz



Channel Position M_{RFBW} – 64QAM/ Bandwidth 10.0 MHz&10.0MHz



Channel Position M_{RFBW} – 256QAM / Bandwidth 10.0 MHz&10.0MHz



Configuration L-MIMO-MC 2(3C)

Maximum Output Power 37.0dBm per port

-26dBc Occupied Bandwidth for FCC requirement

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B _{RFBW}	Channel Position M _{RFBW}	Channel Position T _{RFBW}
QPSK / 1.4 MHz&1.4MHz&1.4MHz	-	869.7MHz + 871.1MHz + 893.3MHz	-
	-	24.870	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B _{RFBW}	Channel Position M _{RFBW}	Channel Position T _{RFBW}
QPSK / 1.4 MHz&3.0MHz&1.4MHz	-	869.7MHz + 871.9MHz + 893.3MHz	-
	-	24.870	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B _{RFBW}	Channel Position M _{RFBW}	Channel Position T _{RFBW}
QPSK / 1.4 MHz&3.0MHz&3.0MHz	-	869.7MHz + 871.9MHz + 892.5MHz	-
	-	24.870	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B _{RFBW}	Channel Position M _{RFBW}	Channel Position T _{RFBW}
QPSK / 1.4 MHz&5.0MHz&1.4MHz	-	869.7MHz + 872.9MHz + 893.3MHz	-
	-	24.870	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B _{RFBW}	Channel Position M _{RFBW}	Channel Position T _{RFBW}
QPSK / 1.4 MHz&5.0MHz&3.0MHz	-	869.7MHz + 872.9MHz + 892.5MHz	-
	-	24.870	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B _{RFBW}	Channel Position M _{RFBW}	Channel Position T _{RFBW}
QPSK / 1.4 MHz&10.0MHz&1.4MHz	-	869.7MHz + 875.4MHz + 893.3MHz	-
	-	24.870	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B _{RFBW}	Channel Position M _{RFBW}	Channel Position T _{RFBW}
QPSK / 1.4 MHz&10.0MHz&3.0MHz	-	869.7MHz + 875.4MHz + 892.5MHz	-
	-	24.870	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B _{RFBW}	Channel Position M _{RFBW}	Channel Position T _{RFBW}
	-	870.5MHz + 873.5MHz + 892.5MHz	-
QPSK / 3.0MHz&3.0MHz&3.0MHz	-	24.870	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B _{RFBW}	Channel Position M _{RFBW}	Channel Position T _{RFBW}
	-	870.5MHz + 874.5MHz + 892.5MHz	-
QPSK / 3.0MHz&5.0MHz&3.0MHz	-	24.870	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B _{RFBW}	Channel Position M _{RFBW}	Channel Position T _{RFBW}
	-	870.5MHz + 877.0MHz + 892.5MHz	-
QPSK / 3.0MHz&10.0MHz&3.0MHz	-	24.870	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B _{RFBW}	Channel Position M _{RFBW}	Channel Position T _{RFBW}
	-	869.7MHz + 872.9MHz + 891.5MHz	-
QPSK / 1.4 MHz&5.0MHz&5.0MHz	-	24.750	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B _{RFBW}	Channel Position M _{RFBW}	Channel Position T _{RFBW}
	-	869.7MHz + 875.4MHz + 891.5MHz	-
QPSK / 1.4 MHz&10.0MHz&5.0MHz	-	24.750	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B _{RFBW}	Channel Position M _{RFBW}	Channel Position T _{RFBW}
	-	869.7MHz + 875.4MHz + 889.0MHz	-
QPSK / 1.4 MHz&10.0MHz&10.0MHz	-	24.500	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B _{RFBW}	Channel Position M _{RFBW}	Channel Position T _{RFBW}
	-	870.5MHz + 874.5MHz + 891.5MHz	-
QPSK / 3.0 MHz&5.0MHz&5.0MHz	-	24.800	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B _{RFBW}	Channel Position M _{RFBW}	Channel Position T _{RFBW}
	-	870.5MHz + 877.0MHz + 891.5MHz	-
QPSK / 3.0 MHz&10.0MHz&5.0MHz	-	24.800	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B_{RFBW}	Channel Position M_{RFBW}	Channel Position T_{RFBW}
QPSK / 3.0 MHz & 10.0MHz & 5.0MHz	-	870.5MHz + 877.0MHz + 889.0MHz	-
	-	24.530	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B_{RFBW}	Channel Position M_{RFBW}	Channel Position T_{RFBW}
QPSK / 5.0 MHz & 10.0MHz & 5.0MHz	-	871.5MHz + 879.0MHz + 889.0MHz	-
	-	24.490	-

-99% Occupied Bandwidth for IC requirement

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B _{RFBW}	Channel Position M _{RFBW}	Channel Position T _{RFBW}
	-	869.7MHz + 871.1MHz + 893.3MHz	-
QPSK / 1.4 MHz&1.4MHz&1.4MHz	-	24.870	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B _{RFBW}	Channel Position M _{RFBW}	Channel Position T _{RFBW}
	-	869.7MHz + 871.9MHz + 893.3MHz	-
QPSK / 1.4 MHz&3.0MHz&1.4MHz	-	24.662	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B _{RFBW}	Channel Position M _{RFBW}	Channel Position T _{RFBW}
	-	869.7MHz + 871.9MHz + 892.5MHz	-
QPSK / 1.4 MHz&3.0MHz&3.0MHz	-	24.641	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B _{RFBW}	Channel Position M _{RFBW}	Channel Position T _{RFBW}
	-	869.7MHz + 872.9MHz + 893.3MHz	-
QPSK / 1.4 MHz&5.0MHz&1.4MHz	-	24.664	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B _{RFBW}	Channel Position M _{RFBW}	Channel Position T _{RFBW}
	-	869.7MHz + 872.9MHz + 892.5MHz	-
QPSK / 1.4 MHz&5.0MHz&3.0MHz	-	24.641	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B _{RFBW}	Channel Position M _{RFBW}	Channel Position T _{RFBW}
	-	869.7MHz + 875.4MHz + 893.3MHz	-
QPSK/ 1.4 MHz&10.0MHz&1.4MHz	-	24.663	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B _{RFBW}	Channel Position M _{RFBW}	Channel Position T _{RFBW}
	-	869.7MHz + 875.4MHz + 892.5MHz	-
QPSK/ 1.4 MHz&10.0MHz&3.0MHz	-	24.641	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B _{RFBW}	Channel Position M _{RFBW}	Channel Position T _{RFBW}
	-	870.5MHz + 873.5MHz + 892.5MHz	-
QPSK / 3.0MHz&3.0MHz&3.0MHz	-	24.631	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B_{RFBW}	Channel Position M_{RFBW} 870.5MHz + 874.5MHz + 892.5MHz	Channel Position T_{RFBW}
256QAM / 3.0MHz&5.0MHz&3.0MHz	-	24.622	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B_{RFBW}	Channel Position M_{RFBW} 870.5MHz + 877.0MHz + 892.5MHz	Channel Position T_{RFBW}
QPSK / 3.0MHz&10.0MHz&3.0MHz	-	24.627	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B_{RFBW}	Channel Position M_{RFBW} 869.7MHz + 872.9MHz + 891.5MHz	Channel Position T_{RFBW}
QPSK / 1.4 MHz&5.0MHz&5.0MHz	-	24.510	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B_{RFBW}	Channel Position M_{RFBW} 869.7MHz + 875.4MHz + 891.5MHz	Channel Position T_{RFBW}
QPSK / 1.4 MHz&10.0MHz&5.0MHz	-	24.503	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B_{RFBW}	Channel Position M_{RFBW} 869.7MHz + 875.4MHz + 889.0MHz	Channel Position T_{RFBW}
QPSK / 1.4 MHz& 10.0MHz&10.0MHz	-	24.177	-

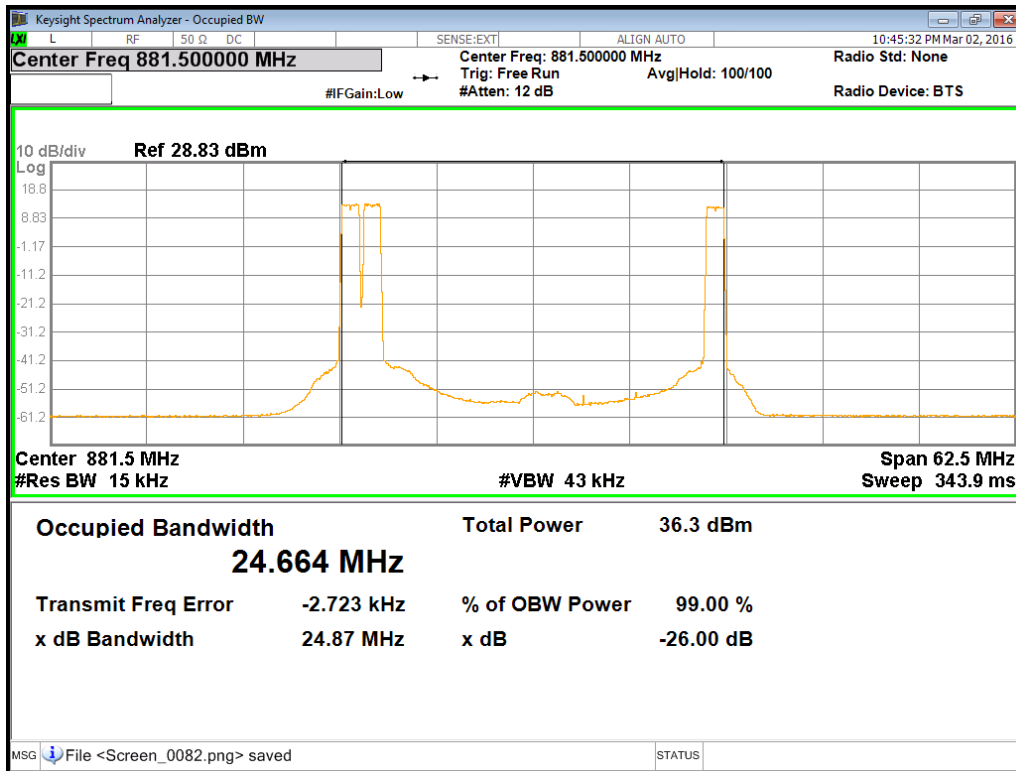
Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B_{RFBW}	Channel Position M_{RFBW} 870.5MHz + 874.5MHz + 891.5MHz	Channel Position T_{RFBW}
QPSK / 3.0 MHz&5.0MHz&5.0MHz	-	24.487	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B_{RFBW}	Channel Position M_{RFBW} 870.5MHz + 877.0MHz + 891.5MHz	Channel Position T_{RFBW}
QPSK / 3.0 MHz&10.0MHz&5.0MHz	-	24.488	-

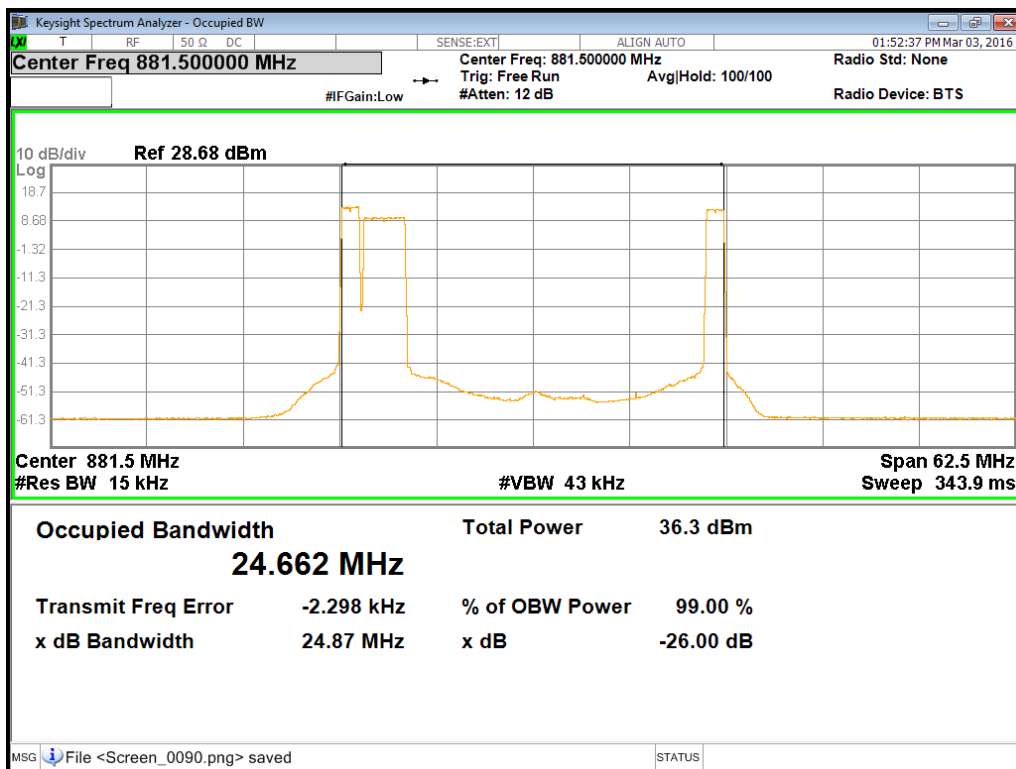
Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B_{RFBW}	Channel Position M_{RFBW} 870.5MHz + 877.0MHz + 889.0MHz	Channel Position T_{RFBW}
QPSK / 3.0 MHz& 10.0MHz&10.0MHz	-	24.155	-

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B_{RFBW}	Channel Position M_{RFBW} 871.5 MHz + 879.0MHz + 889.0MHz	Channel Position T_{RFBW}
QPSK / 5.0 MHz & 10.0MHz & 10.0MHz	-	24.016	-

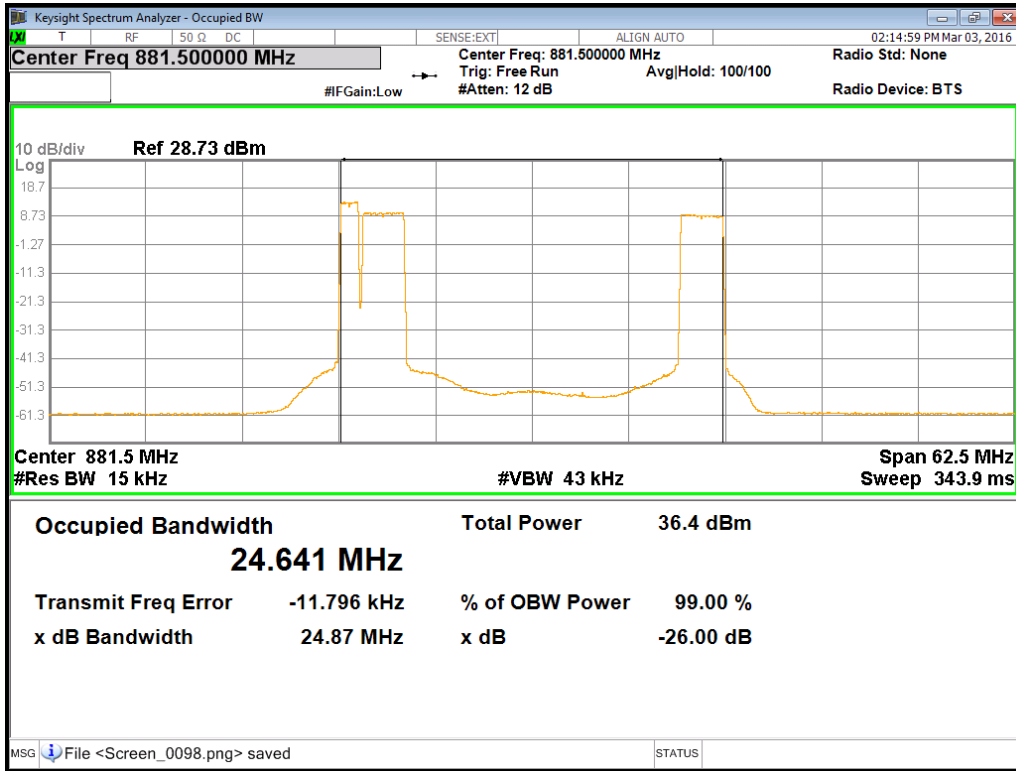
Channel Position M_{RFBW} – QPSK/ Bandwidth 1.4 MHz&1.4MHz&1.4MHz



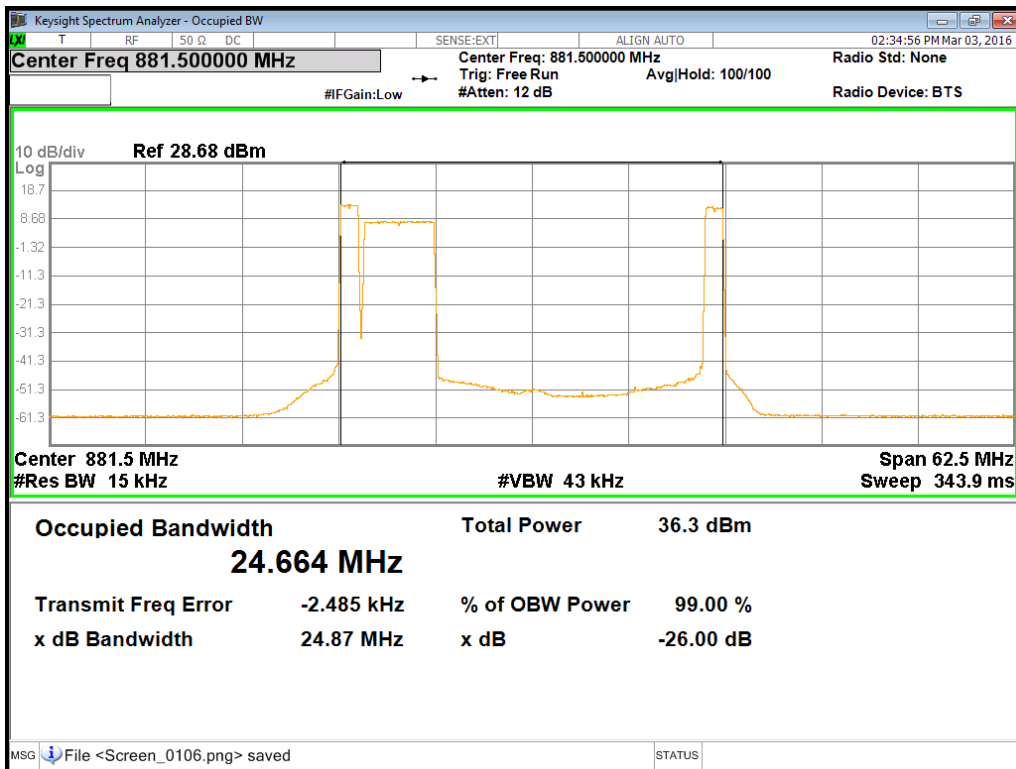
Channel Position M_{RFBW} – QPSK/ Bandwidth 1.4 MHz&3.0MHz&1.4MHz



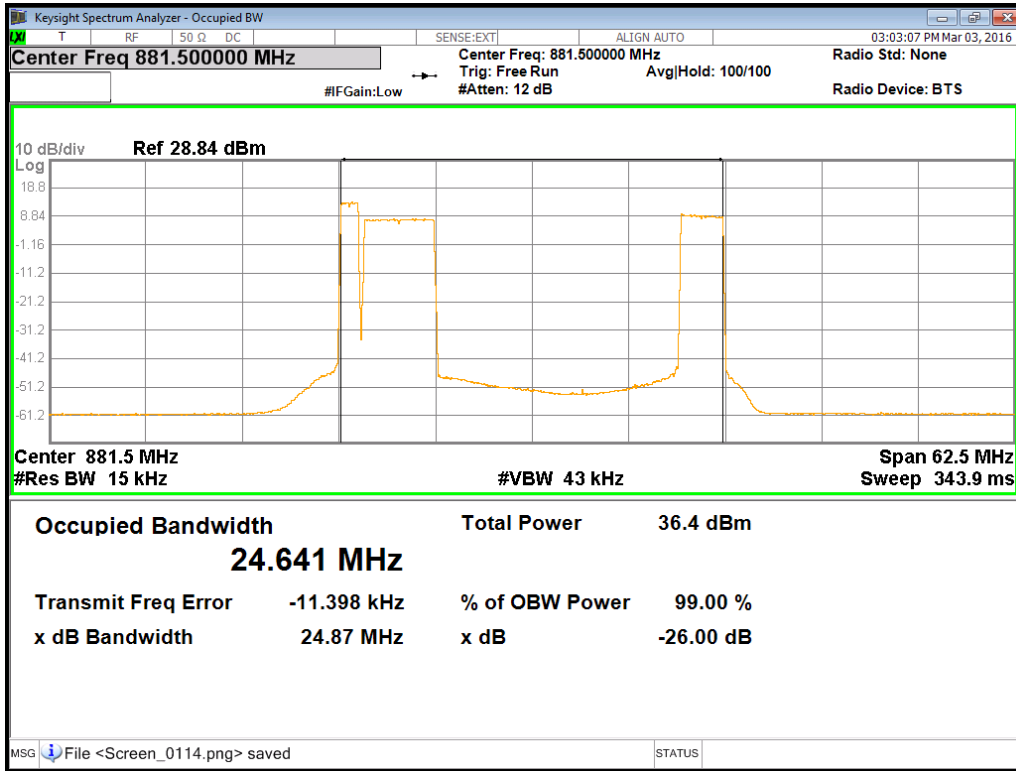
Channel Position M_{RFBW} – QPSK/ Bandwidth 1.4 MHz&3.0MHz&3.0MHz



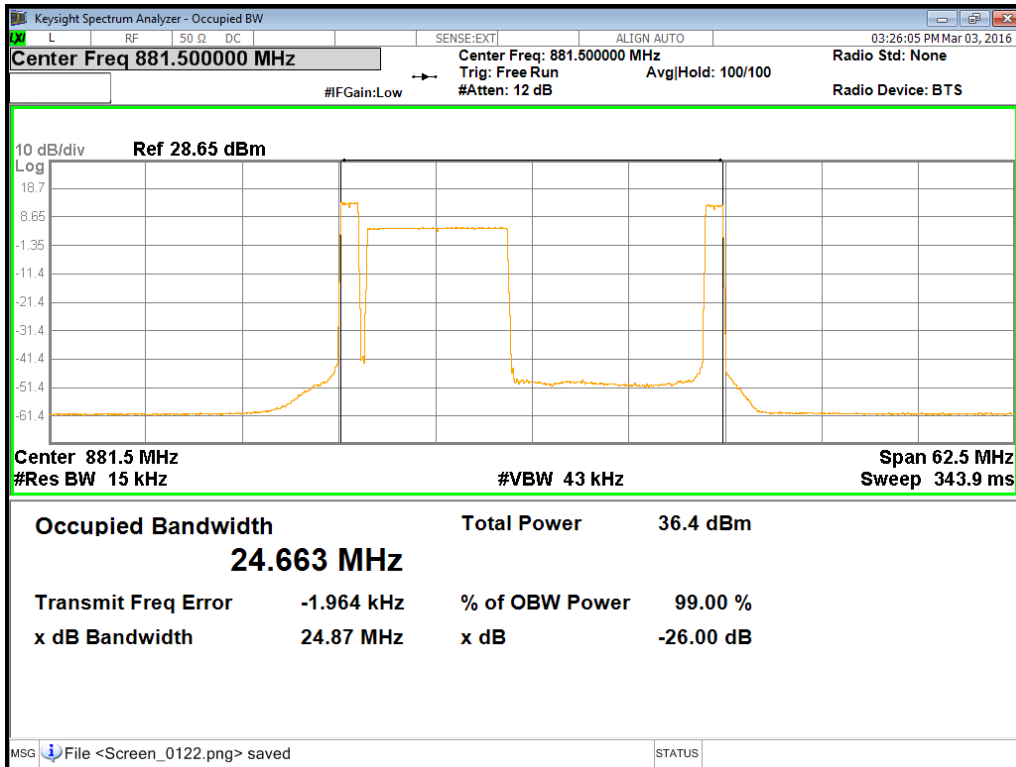
Channel Position M_{RFBW} – QPSK/ Bandwidth 1.4 MHz&5.0MHz&1.4MHz



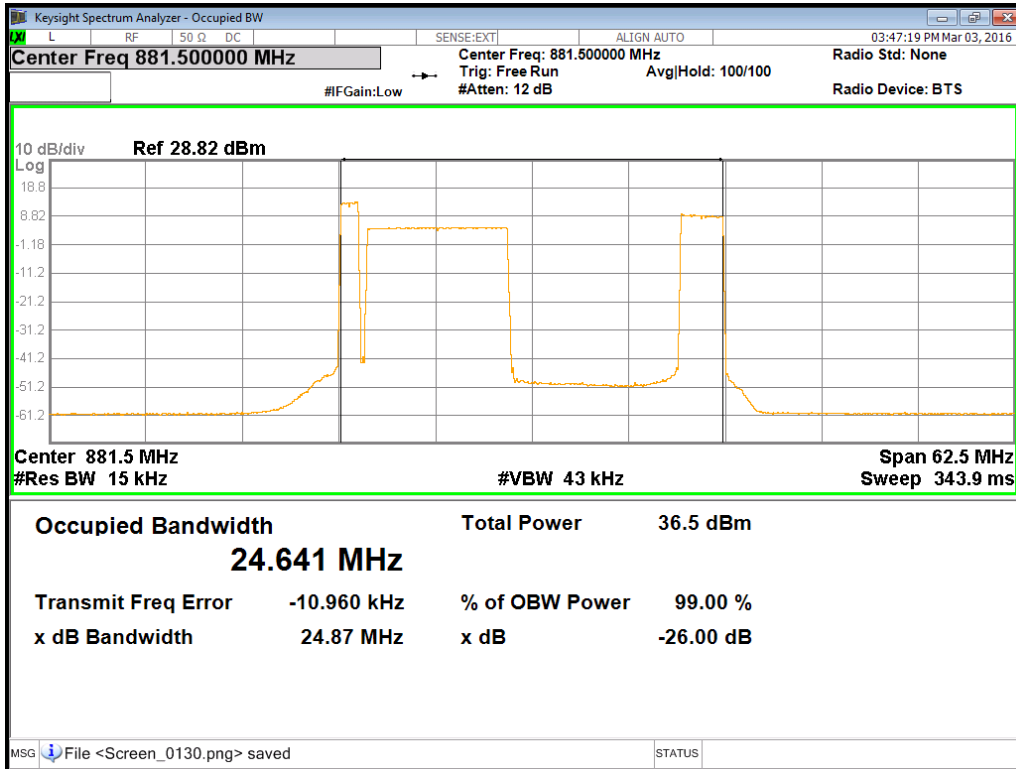
Channel Position M_{RFBW} – QPSK/ Bandwidth 1.4 MHz&5.0MHz&3.0MHz



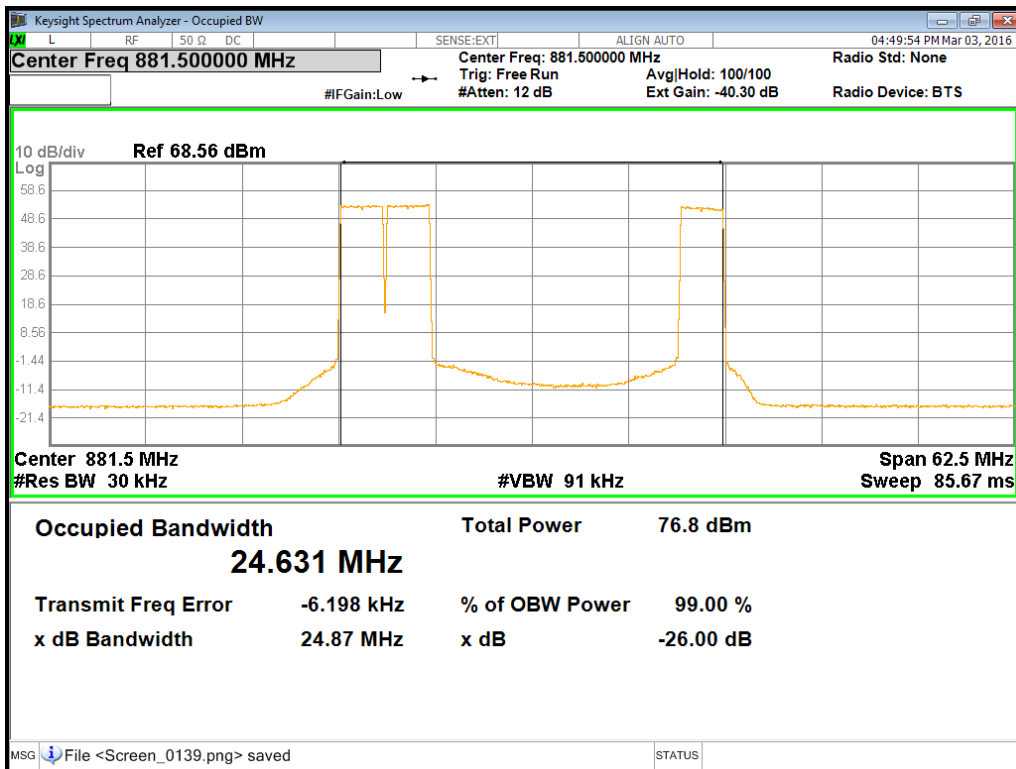
Channel Position M_{RFBW} – QPSK/ Bandwidth 1.4 MHz&10.0MHz&1.4MHz



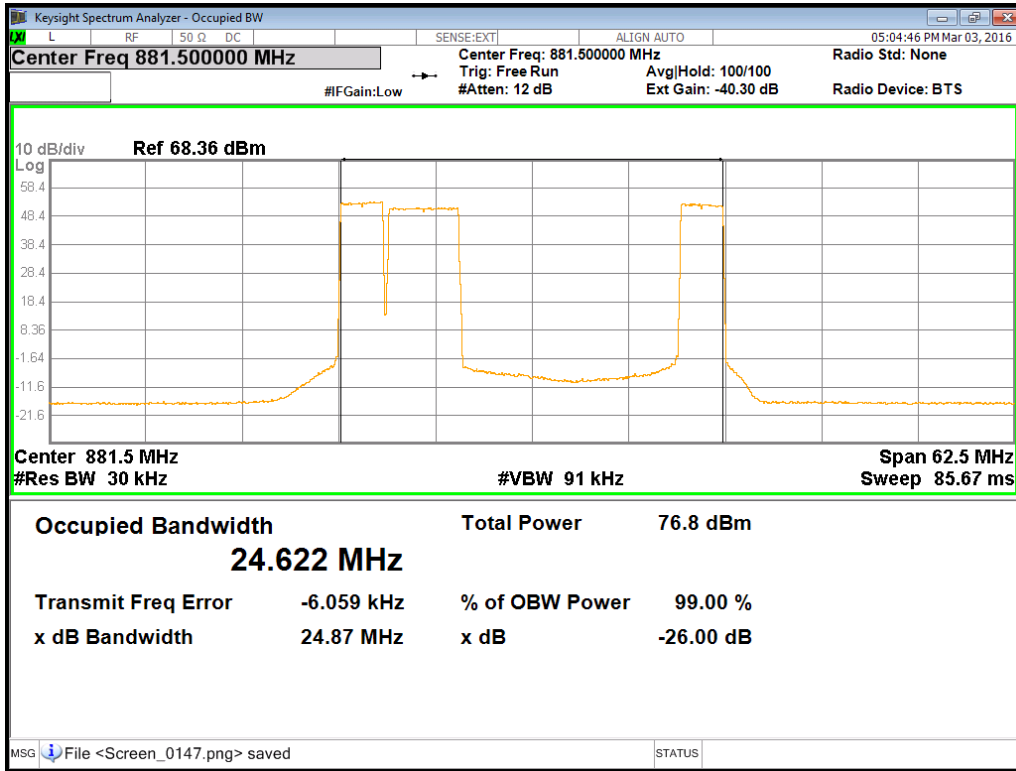
Channel Position M_{RFBW} – QPSK/ Bandwidth 1.4 MHz&10.0MHz&3.0MHz



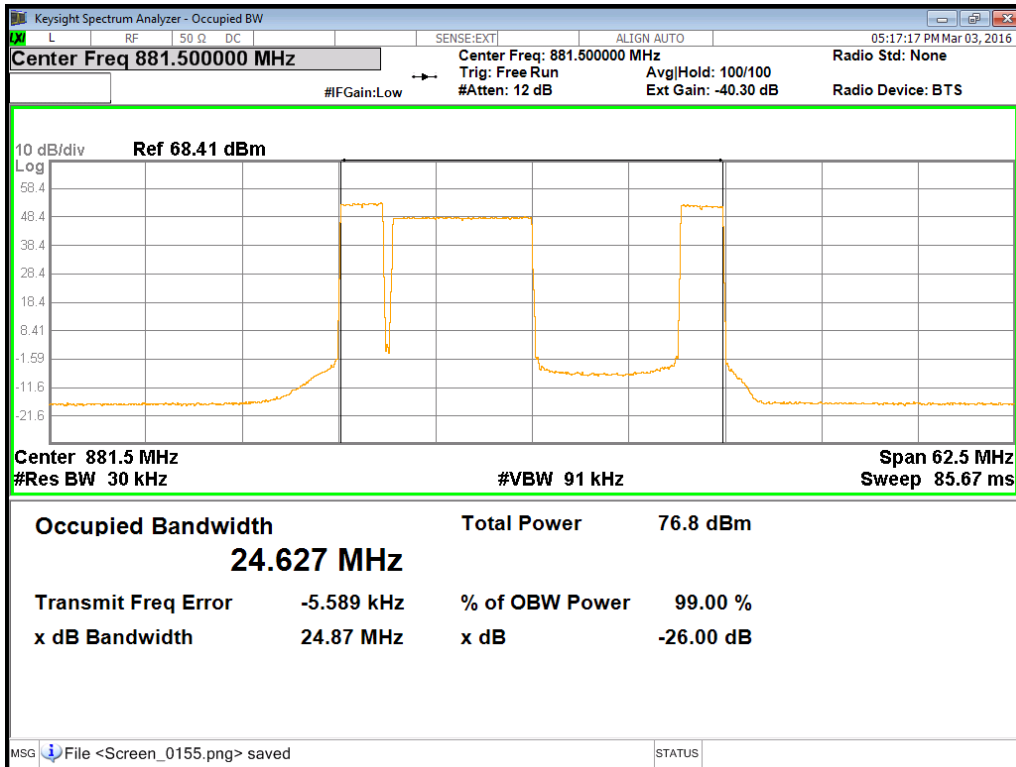
Channel Position M_{RFBW} – QPSK/ Bandwidth 3.0 MHz&3.0MHz&3.0MHz



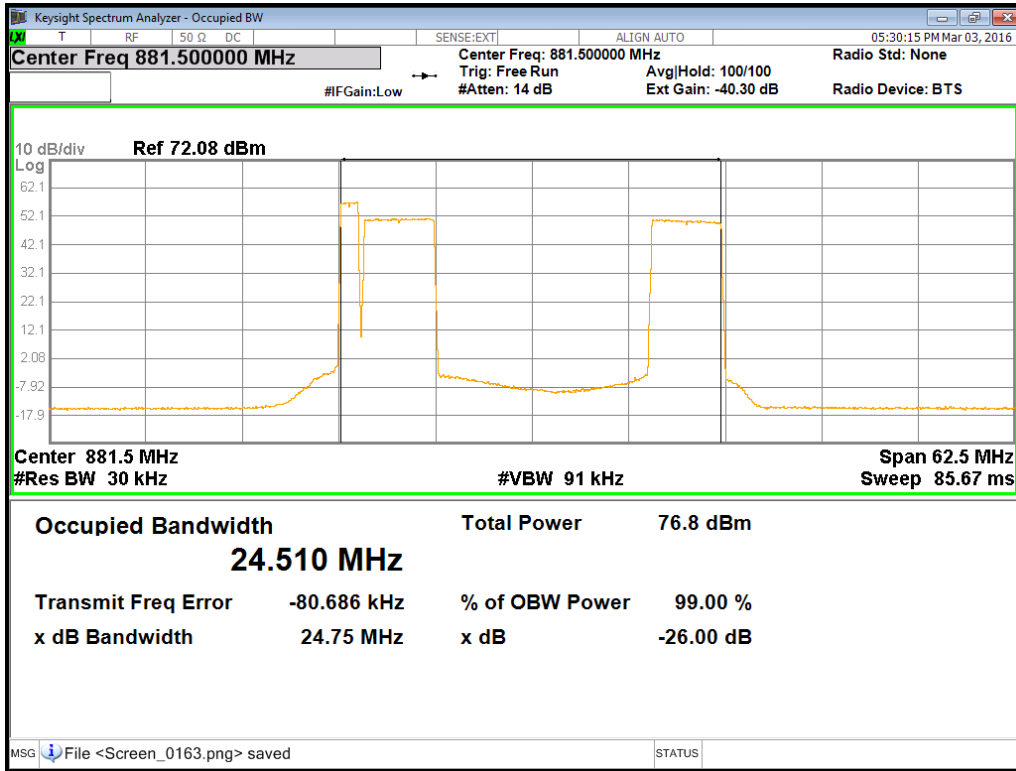
Channel Position M_{RFBW} – QPSK/ Bandwidth 3.0 MHz&5.0MHz&3.0MHz



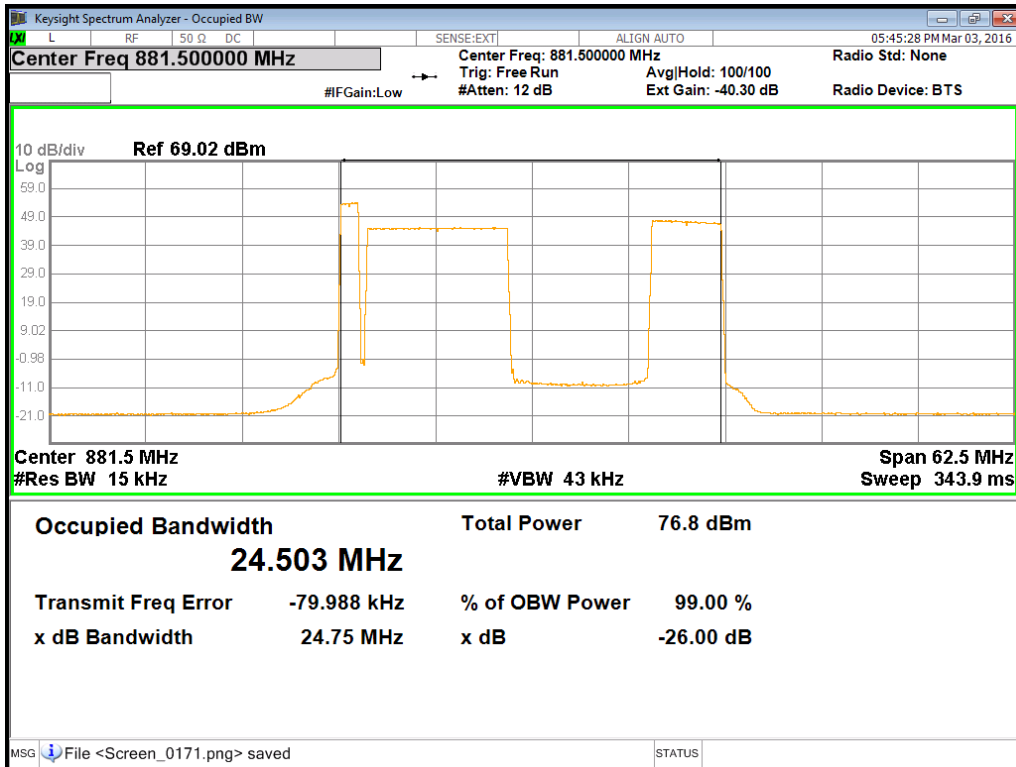
Channel Position M_{RFBW} – QPSK/ Bandwidth 3.0 MHz&10.0MHz&3.0MHz



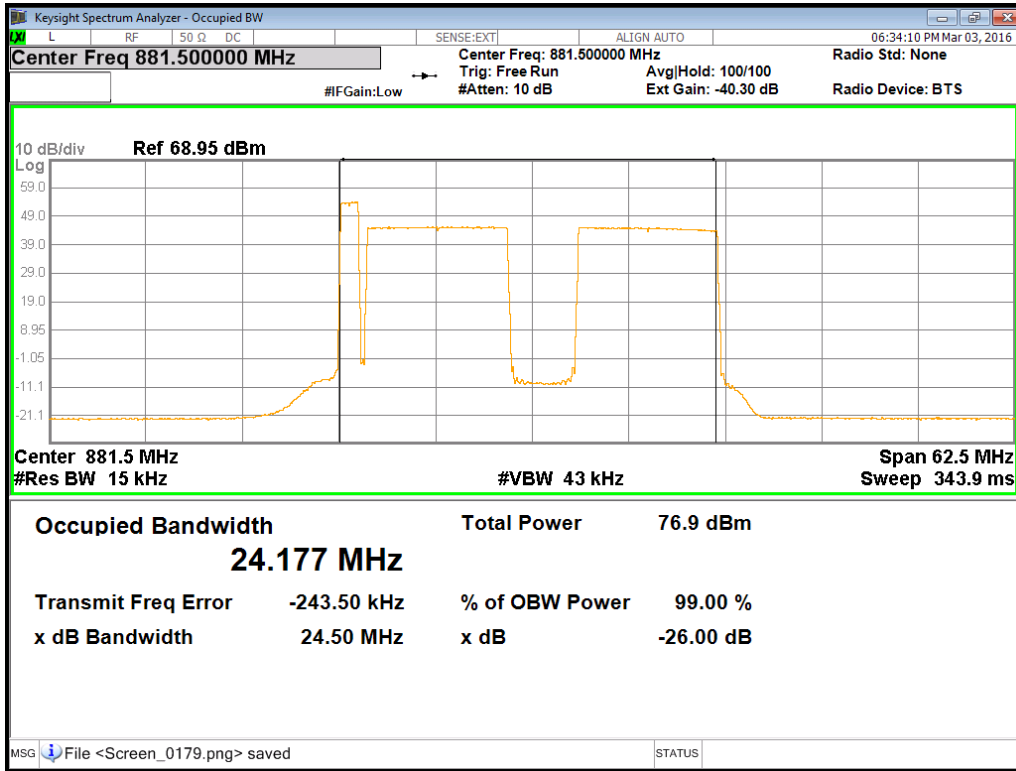
Channel Position M_{RFBW} – QPSK/ Bandwidth 1.4 MHz&5.0MHz&5.0MHz



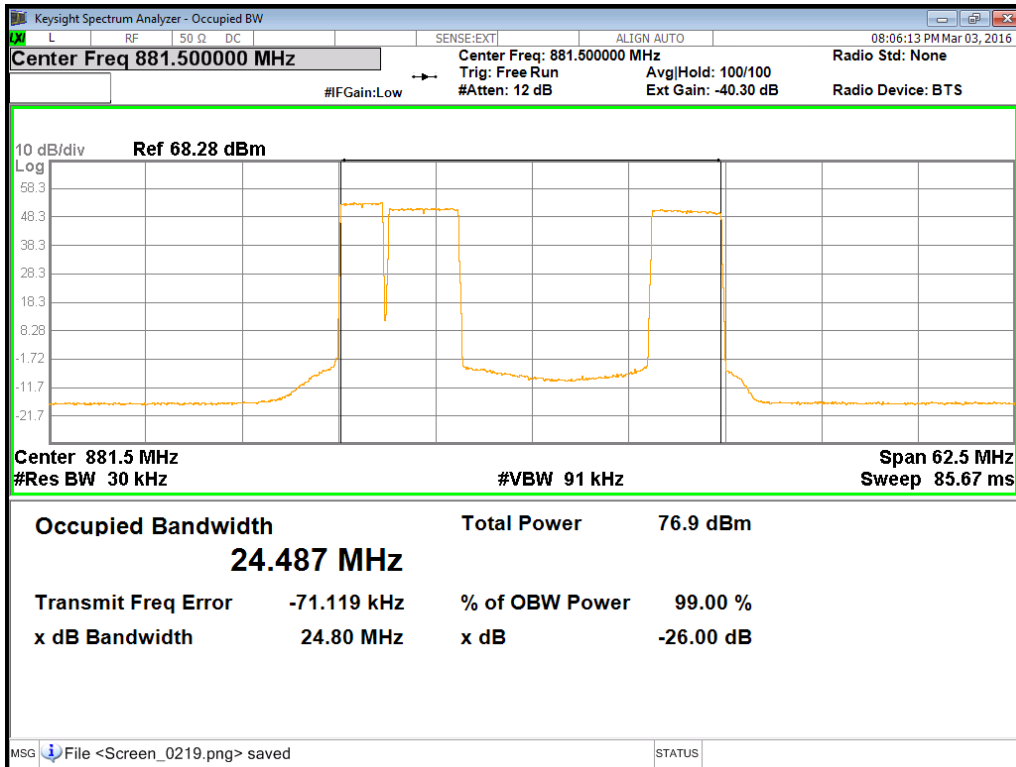
Channel Position M_{RFBW} – QPSK/ Bandwidth 1.4 MHz&10.0MHz&5.0MHz



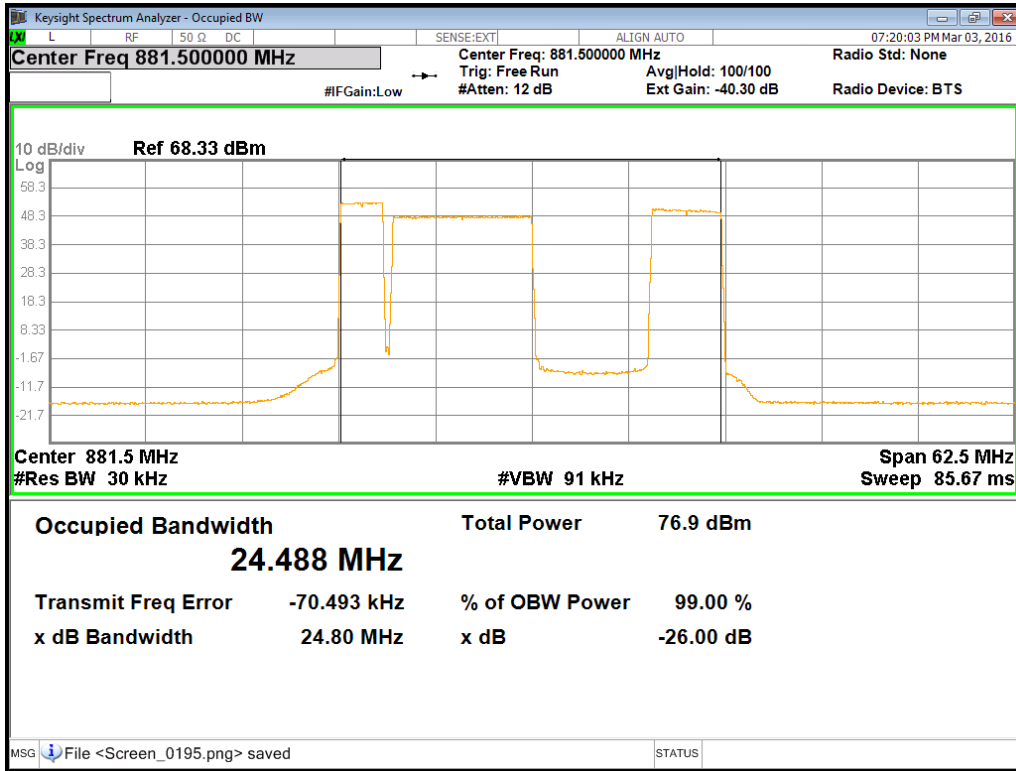
Channel Position M_{RFBW} – QPSK/ Bandwidth 1.4 MHz&10.0MHz&10.0MHz



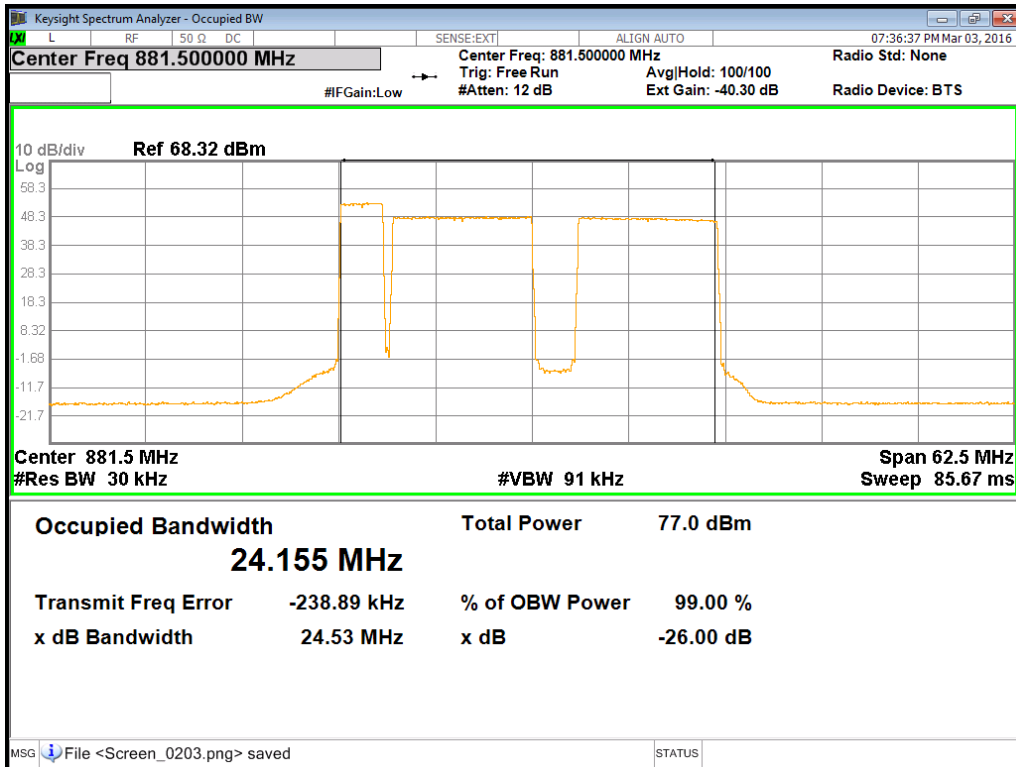
Channel Position M_{RFBW} – QPSK/ Bandwidth 3.0 MHz&5.0MHz&5.0MHz



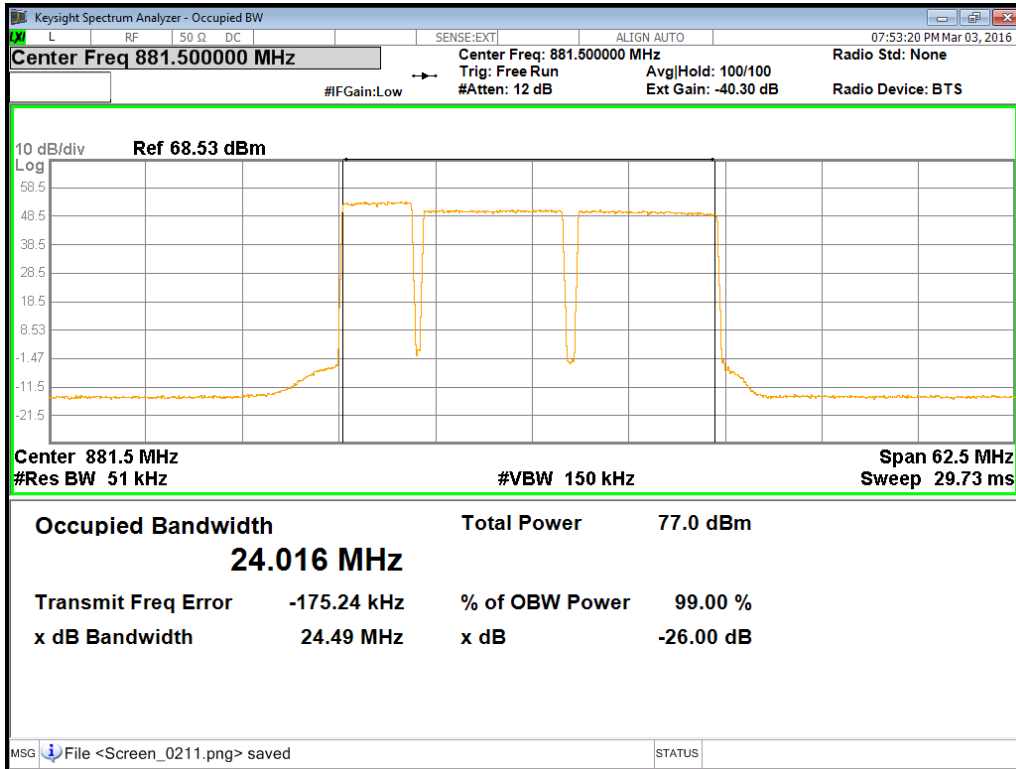
Channel Position M_{RFBW} – QPSK/ Bandwidth 3.0 MHz&10.0MHz&5.0MHz



Channel Position M_{RFBW} – QPSK/ Bandwidth 3.0 MHz&10.0MHz&10.0MHz



Channel Position M_{RFBW} – QPSK/ Bandwidth 5.0 MHz&10.0MHz&10.0MHz



2.4 SPURIOUS EMISSION AT BAND EDGE

2.4.1 Specification Reference

FCC CFR 47 Part 2, Clause 2.1051
FCC CFR 47 Part 22, Clause 22.917 (b)
Industry Canada RSS-132, Clause 5.5

2.4.2 Equipment Under Test

Radio 2203 B5, KRC 161 508/1, S/N: D822845958

2.4.3 Date of Test and Modification State

24 and 26 February 2016 - Modification State 0

2.4.4 Test Equipment Used

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

2.4.5 Environmental Conditions

Ambient Temperature	20.6 - 24.5°C
Relative Humidity	24.8 - 30.0%

2.4.6 Test Method

The test was applied in accordance with the test method requirements of FCC CFR 47 Part 22 and Industry Canada RSS-132.

In accordance with FCC CFR 47 Part 22, Clause 22.917 (b), the power of any emissions outside of the block edges shall be attenuated below the transmitter power (P) with the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. At least 1% of the emission bandwidth was used for the resolution bandwidths up to 1MHz away from the block edge.

For MIMO mode configurations, the limit was adjusted with a correction of $-3.01\text{dB} [10\text{Log}(2)]$ by using the Measure and Add $10\text{Log}(2)$ dB technique according to FCC KDB 662911 D01 Multiple Transmitter Output v02r01 accounting for simultaneous transmission from antennas port RF A to RF B.

As the FCC rules specify a RBW of 100kHz for measurements of emissions $> 1\text{MHz}$ away from the band edges, the limit was adjusted with $-3.01\text{dB} [10\text{Log}(50/100)]$ to compensate for the reduce measurement bandwidth. For MIMO mode, the limit of -19.02dBm was used for emission $> 1\text{MHz}$ away from the band edges. For Non-MIMO mode, the limit of -16.01dBm was used for emission $> 1\text{MHz}$ away from the band edges. Spectrum analyser detector was set as RMS.

The limits and RBW applied to the measurement of emissions in the 1MHz immediately outside and adjacent to the frequency block were shown in the test results for each test configuration.

The path loss measured and entered as a reference level offset. The EUT was set to transmit at its maximum rated output power in the configurations described in the tables below. The measurements were made at the bottom and top of the band with all channel bandwidth.

2.4.7 Test Results

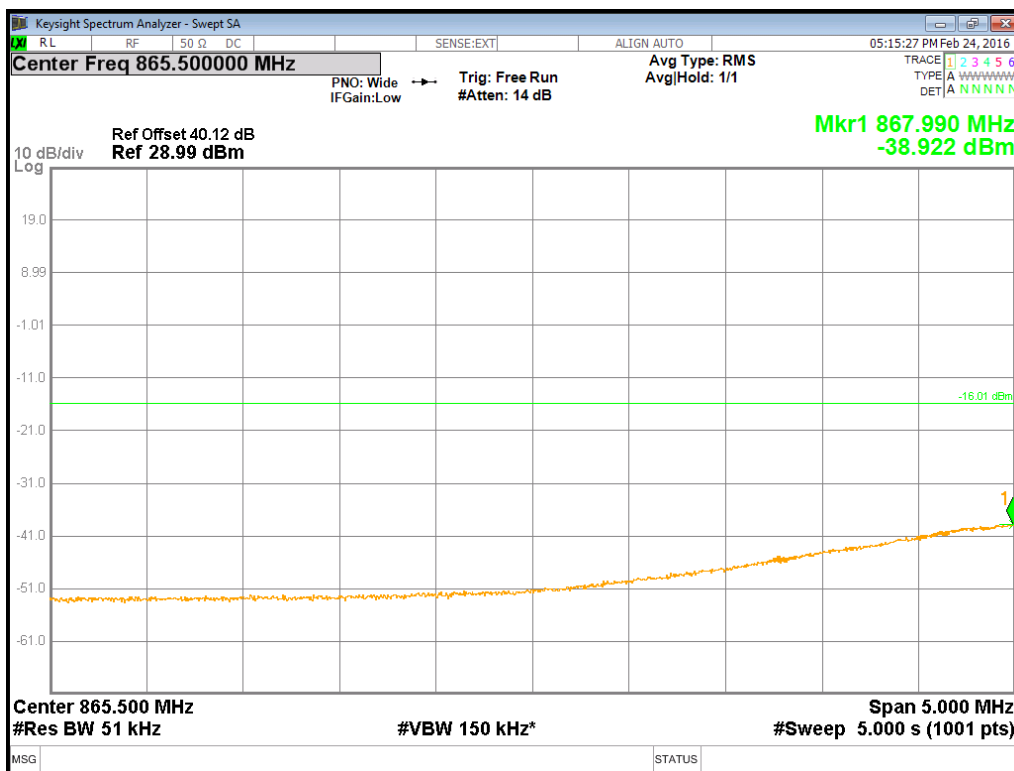
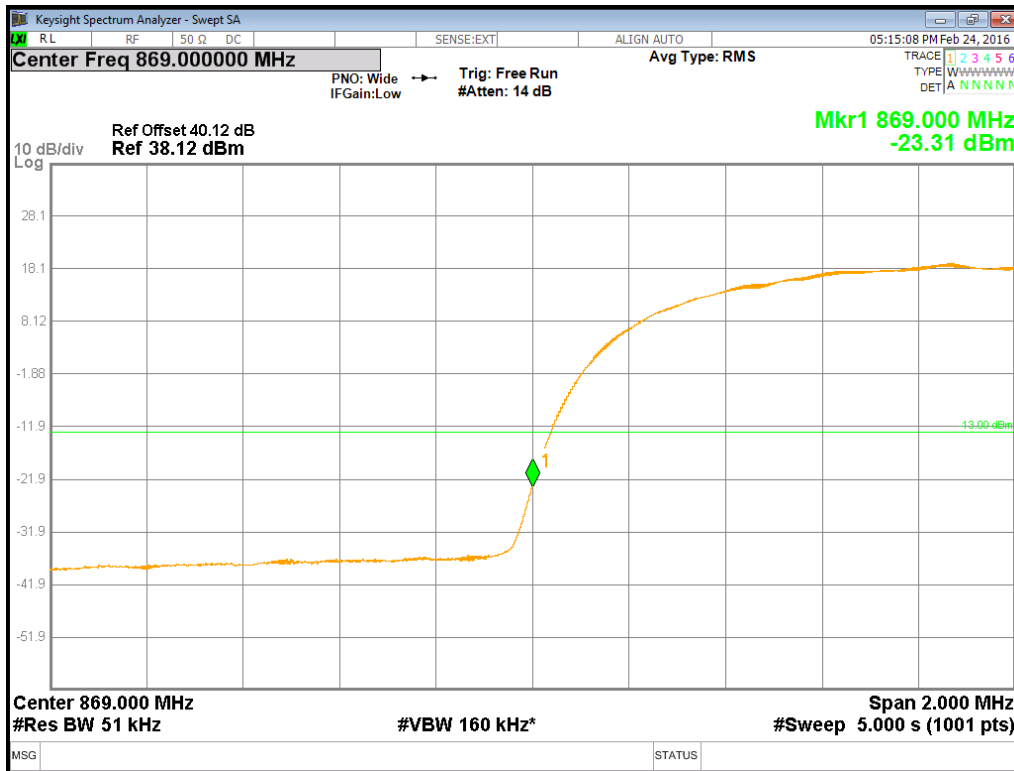
Configuration W-SC

Maximum Output Power 37.0dBm per port

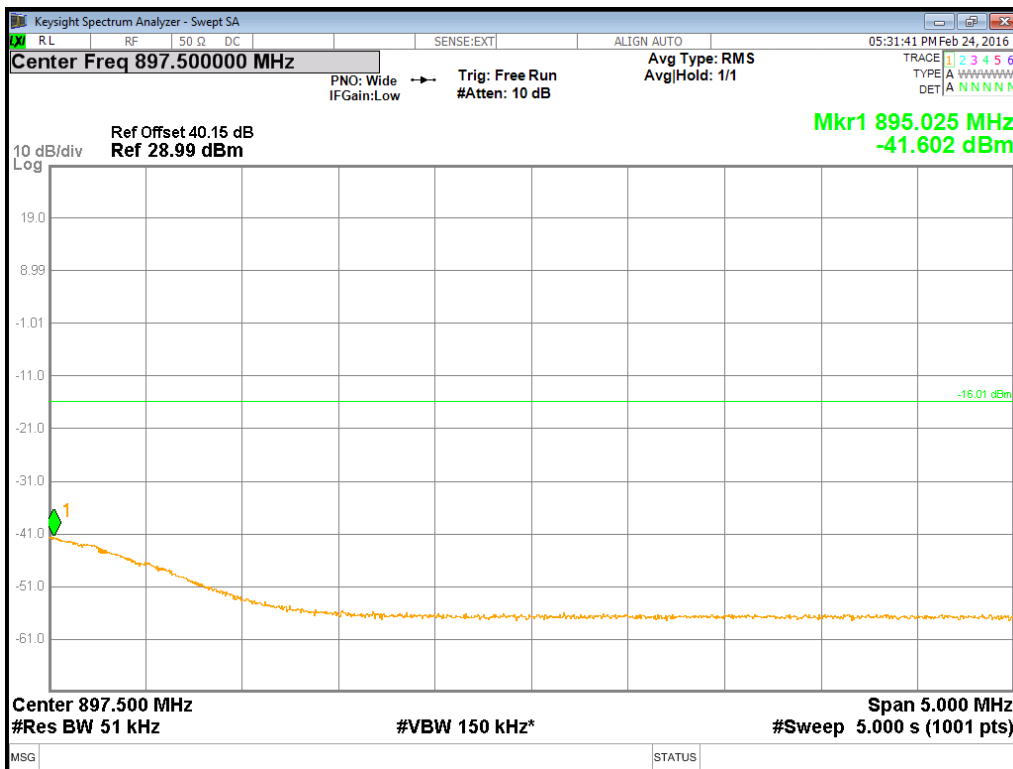
Band Edge Frequency	Channel Bandwidth	Edge Test with modulation QPSK Channel Frequencies	RBW (kHz)	Limit (dBm)
Channel Position B 869.0 MHz	5.0 MHz	871.4 MHz	51	-13.0
Channel Position T 894.0 MHz	5.0 MHz	891.6 MHz	51	-13.0

Note 1: The channels shown in the table above are the minimum and maximum channels that can be used in the authorised frequency ranges to maintain compliance. Channels outside of the ranges shown in the above tables shall not be available to the end user.

Channel Position B - QPSK / Bandwidth 5.0 MHz



Channel Position T - QPSK / Bandwidth 5.0 MHz



Configuration W-MIMO-SC

Maximum Output Power 37.0dBm per port

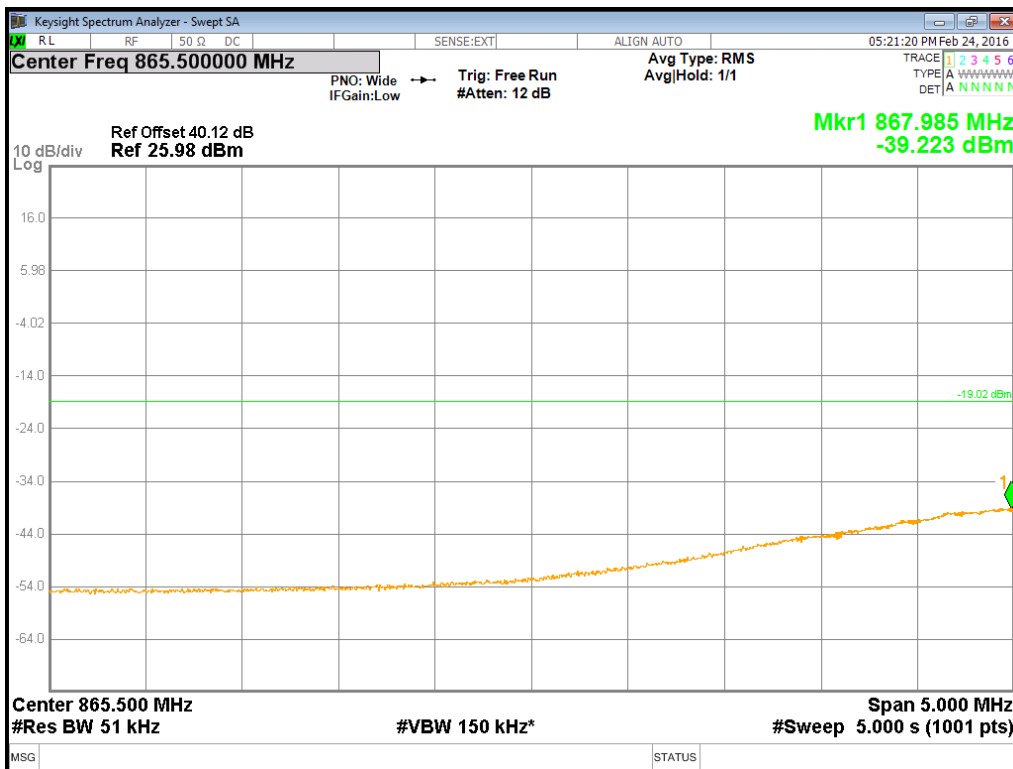
Band Edge Frequency	Channel Bandwidth	Edge Test with modulation 16QAM Channel Frequencies	RBW (kHz)	Limit (dBm)
Channel Position B 869.0 MHz	5.0 MHz	871.4 MHz	50	-16.01
Channel Position T 894.0 MHz	5.0 MHz	891.6 MHz	50	-16.01

Band Edge Frequency	Channel Bandwidth	Edge Test with modulation 64QAM Channel Frequencies	RBW (kHz)	Limit (dBm)
Channel Position B 869.0 MHz	5.0 MHz	871.4 MHz	50	-16.01
Channel Position T 894.0 MHz	5.0 MHz	891.6 MHz	50	-16.01

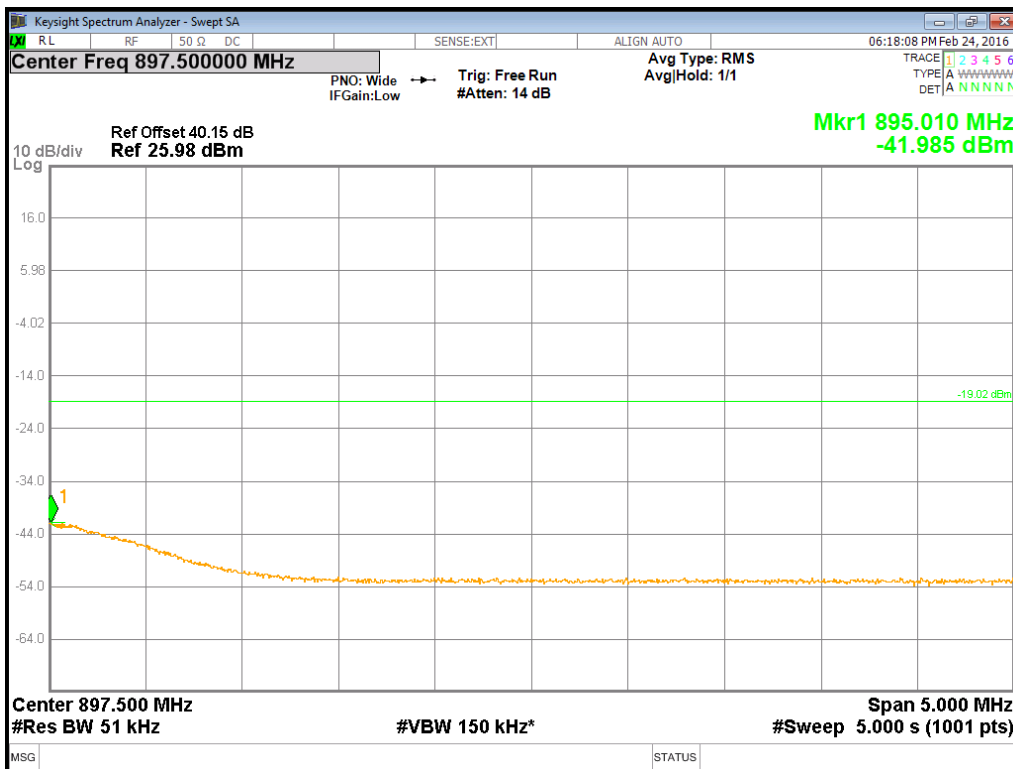
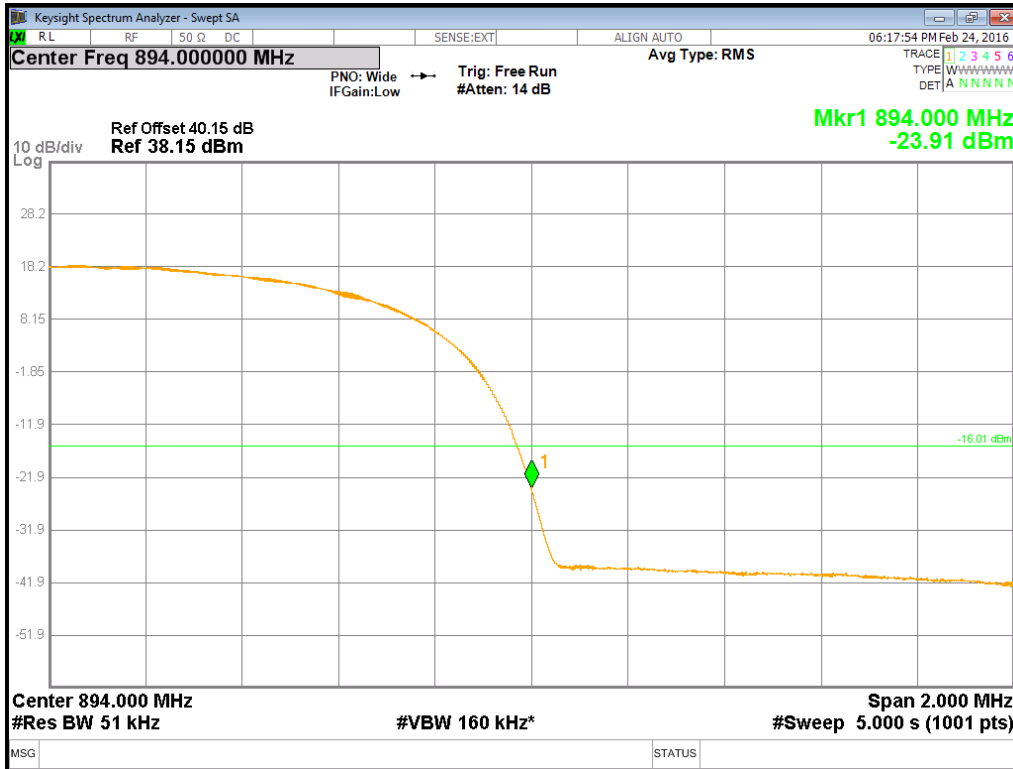
Note 1: For MIMO mode configurations, the limit was adjusted with a correction of -3.01dB [10Log(2)] to -13dBm. For the measurement of 1MHz immediately outside and adjacent to the frequency band edge.

Note 2: The channels shown in the table above are the minimum and maximum channels that can be used in the authorised frequency ranges to maintain compliance. Channels outside of the ranges shown in the above tables shall not be available to the end user.

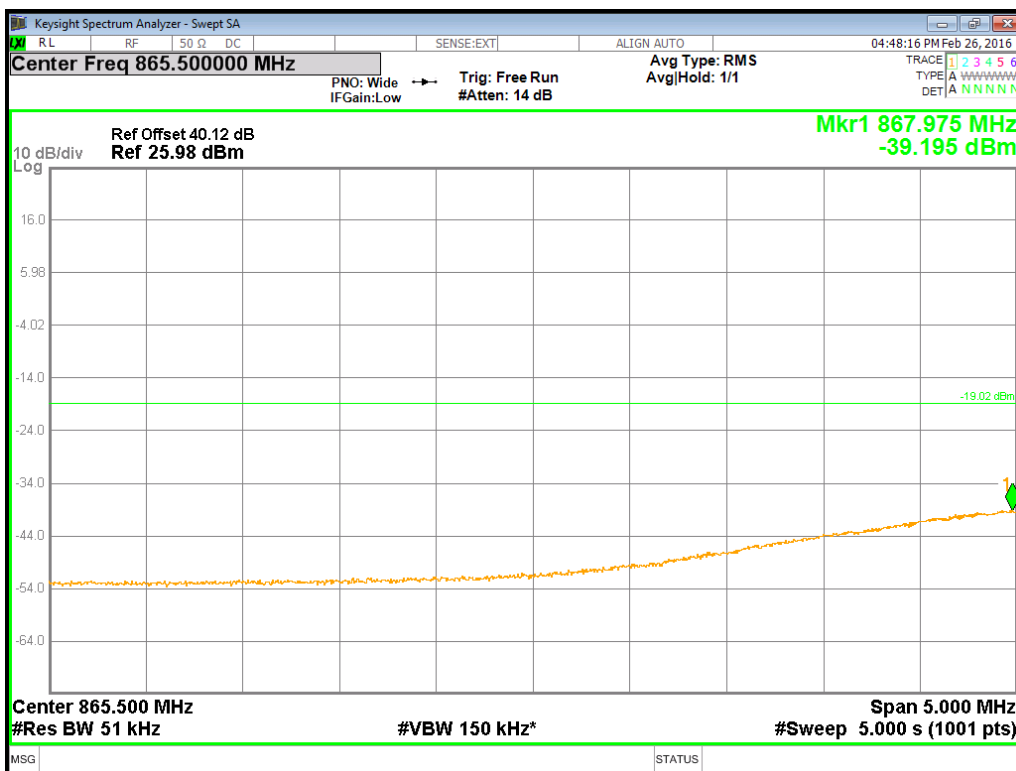
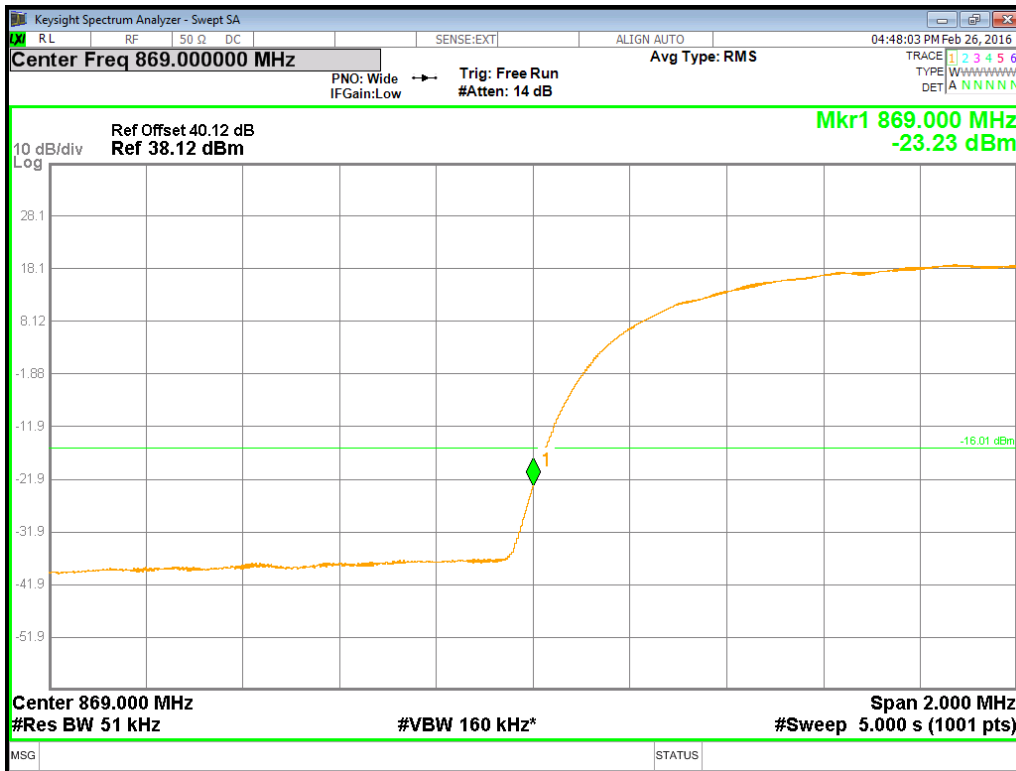
Channel Position B - 16QAM / Bandwidth 5.0 MHz



Channel Position T - 16QAM / Bandwidth 5.0 MHz



Channel Position B - 64QAM / Bandwidth 5.0 MHz



Channel Position T - 64QAM / Bandwidth 5.0 MHz

