

FCC REPORT

Applicant: Baicells Technologies Co., Ltd.

Address of Applicant: 9-10F, 1stBldg., No.81BeiQingRoad, Haidian District, Beijing, China

Equipment Under Test (EUT)

Product Name: LTE CAT-15 ODU EUD

Model No.: EG8015G-M11-EUD

Trade mark: Baicells

FCC ID: 2AG32EG8015GM11EUD

Applicable standards: FCC CFR Title 47 Part 2
FCC CFR Title 47 Part 96

Date of sample receipt: 09 Mar., 2021

Date of Test: 09 Mar., 2021 to 11 Jun., 2021

Date of report issued: 15 Jun., 2021

Test Result: PASS*

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

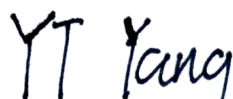
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2. Version

Version No.	Date	Description
00	15 Jun., 2021	Original

Tested by:



Date:

15 Jun., 2021

Test Engineer

Reviewed by:



Date:

15 Jun., 2021

Project Engineer

3. Contents

Page

1.	COVER PAGE	1
2.	VERSION	2
3.	CONTENTS	3
4.	TEST SUMMARY	4
5.	GENERAL INFORMATION	5
5.1	CLIENT INFORMATION	5
5.2	GENERAL DESCRIPTION OF E.U.T	5
5.3	TEST MODES AND TEST SAMPLES PLANS	6
5.4	MEASUREMENT UNCERTAINTY	6
5.5	DESCRIPTION OF SUPPORT UNITS	6
5.6	RELATED SUBMITTAL(S) / GRANT (S)	6
5.7	DESCRIPTION OF CABLE USED	6
5.8	LABORATORY FACILITY	6
5.9	LABORATORY LOCATION	6
5.10	TEST INSTRUMENTS LIST	7
6.	TEST RESULTS	8
6.1	EFFECTIVE ISOTROPIC RADIATED (EIRP)	8
6.2	PEAK-TO-AVERAGE POWER RATIO (PAPR)	21
6.3	OCCUPY BANDWIDTH	23
6.4	EMISSION MASK	31
6.5	OUT OF BAND EMISSION AT ANTENNA TERMINALS	38
6.6	FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT	45
6.7	FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT	50
6.8	FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT	53
7	TEST SETUP PHOTO	55
8	EUT CONSTRUCTIONAL DETAILS	56

4. Test Summary

Test Item	Section in CFR 47	Result
	FCC	
Effective Isotropic Radiated Power (EIRP)	Part 2.1046 Part 96.41(b)	Pass
Peak-to-average power ratio (PAPR)	Part 96.41(g)	Pass
Modulation Characteristics	Part 2.1047 Part 96.41(a)	Pass
99% Occupied Bandwidth -26 dB Occupied Bandwidth	Part 2.1049 Part 96.41(e)(3)	Pass
Spurious Emissions at Antenna Terminal	Part 2.1051 Part 96.41(e)(1)(2)	Pass
Field Strength of Spurious Radiation	Part 2.1053 Part 96.41(e)(1)(2)	Pass
Frequency stability vs. temperature	Part 2.1055(a)(b)	Pass
Frequency stability vs. voltage	Part 2.1055(d)	Pass
Test Method: ● ANSI C63.26-2015 ● ANSI/TIA-603-E-2016 ● ANSI C63.4-2014 ● KDB 971168 D01 Power Meas License Digital Systems v03r01 ● KDB 940660 D01 Part 96 CBRS Eqpt v02 Note: ● The duty cycle correction=4(dB) ● Offset Ext Gain = ATT loss + Cable loss + Duty cycle correction=10(dB)		
Pass: The EUT complies with the essential requirements in the standard.		

5. General Information

5.1 Client Information

Applicant:	Baicells Technologies Co., Ltd.
Address:	9-10F, 1stBldg., No.81BeiqingRoad, Haidian District, Beijing, China
Manufacturer	Baicells Technologies Co., Ltd.
Address:	9-10F, 1stBldg., No.81BeiqingRoad, Haidian District, Beijing, China

5.2 General Description of E.U.T.

Product Name:	LTE CAT-15 ODU EUD
Model No.:	EG8015G-M11-EUD
Operation Frequency range:	Band48: 3550MHz~3700MHz
Modulation type:	QPSK, 16QAM, 64QAM
Antenna type:	Internal Antenna
Antenna gain:	LTE Band 48: 18.0dBi
Category device:	End User Device
AC adapter:	Model: G0720-240-050 Input: AC100-240V 50/60Hz 0.75A Output: DC 24.0V== 0.5A
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

Test Channel:

10MHz		15MHz	
Channel:	Frequency (MHz)	Channel:	Frequency (MHz)
Lowest	3555.0	Lowest	3557.5
Middle	3625.0	Middle	3625.0
Highest	3695.0	Highest	3692.5
20MHz			
Channel:	Frequency (MHz)		
Lowest	3560.0		
Middle	3625.0		
Highest	3690.0		

5.3 Test modes and test samples plans

Test mode:	
Data mode (QPSK)	Keep the EUT in data communicating mode (QPSK). (10MHz, 15MHz, 20MHz)
Data mode (64QAM)	Keep the EUT in data communicating mode (64QAM). (10MHz, 15MHz, 20MHz)

5.4 Measurement Uncertainty

Parameters	Expanded Uncertainty
Radiated Emission (30MHz ~ 1000MHz)	±4.45 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±4.25 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.38 dB (k=2)

5.5 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
LENOVO	Laptop	SL510	2847A65	DoC

5.6 Related Submittal(s) / Grant (s)

FCC: This submittal(s) (test report) is filing to comply with Section Part 96 of the FCC CFR 47 Rules.
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5.7 Description of Cable Used

N/A

5.8 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations: ● FCC - Designation No.: CN1211 JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551. ● ISED – CAB identifier.: CN0021 The 3m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1. ● A2LA - Registration No.: 4346.01 This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf
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5.9 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd. Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China. Tel: +86-755-23118282, Fax: +86-755-23116366 Email: info-JYTee@lets.com, Website: http://www.ccis-cb.com

5.10 Test Instruments list

Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	9m*6m*6m	Q1984	01-19-2021	01-18-2024
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-03-2021	03-02-2022
Biconical Antenna	SCHWARZBECK	VUBA9117	359	06-18-2020	06-17-2021
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-03-2021	03-02-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-18-2020	06-17-2021
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-18-2020	11-17-2021
Test Software	Tonscend	TS+	Version: 3.0.0.1		
Pre-amplifier	HP	8447D	2944A09358	03-03-2021	03-02-2022
Pre-amplifier	CD	PAP-1G18	11804	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-18-2020	11-17-2021
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-03-2021	03-02-2022
Spectrum Analyzer	Agilent	N9020A	MY50510123	11-18-2020	11-17-2021
Signal Generator	Rohde & Schwarz	SMX	835454/016	03-03-2021	03-02-2022
Signal Generator	R&S	SMR20	1008100050	03-03-2021	03-02-2022
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-03-2021	03-02-2022
Cable	MICRO-COAX	MFR64639	K10742-5	03-03-2021	03-02-2022
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-03-2021	03-02-2022
DC Power Supply	Keysight	E3642A	MY60266189	11-27-2020	11-26-2021
Temperature Humidity Chamber	HONG ZHI	CZ-A-80D	ZH210165	03-19-2021	03-18-2022
Simulated Station	Rohde & Schwarz	CMW500	140493	07-22-2020	07-21-2021

6. Test results

6.1 Effective Isotropic Radiated (EIRP)

Test Requirement:	FCC part 96.41(b), FCC part2.1046															
Limit:	<table><tr><td></td><td>Maximum EIRP (dBm/10 megahertz)</td><td>Maximum PSD (dBm/MHz)</td></tr><tr><td>Device</td><td></td><td></td></tr><tr><td>End User Device</td><td>23</td><td>n/a</td></tr><tr><td>Category A CBSD</td><td>30</td><td>20</td></tr><tr><td>Category B CBSD¹</td><td>47</td><td>37</td></tr></table>		Maximum EIRP (dBm/10 megahertz)	Maximum PSD (dBm/MHz)	Device			End User Device	23	n/a	Category A CBSD	30	20	Category B CBSD ¹	47	37
	Maximum EIRP (dBm/10 megahertz)	Maximum PSD (dBm/MHz)														
Device																
End User Device	23	n/a														
Category A CBSD	30	20														
Category B CBSD ¹	47	37														
Test setup	 System simulator  ATT  EUT															
Test Procedure:	For Maximum EIRP 1. Connect the transmitter to the spectrum analyzer via coaxial cable while ensuring proper impedance matching. 2. Set span to 2 × to 3 × the OBW. 3. Set RBW = 1% to 5% of the OBW. 4. Set VBW ≥ 3 × RBW. 5. Set number of measurement points in sweep ≥ 2 × span / RBW. 6. Sweep time: 1) Set = auto-couple, or 2) Set ≥ [10 × (number of points in sweep) × (transmission symbol period)] for single sweep (automation-compatible) measurement. 7. Detector = power averaging (rms). 8. Set sweep trigger to “free run.” 9. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple. To accurately determine the average power over the on and off time of the transmitter, it can be necessary to increase the number of traces to be averaged above 100, or if using a manually configured sweep time, increase the sweep time. 10. Compute power by integrating the spectrum across the OBW(10MHz) of the signal using the instrument’s band or channel power measurement function with band/channel limits set equal to the OBW(10MHz) band edges. 11. Add 10 log (1/duty cycle) to the measured power level to compute the average power during continuous transmission. 12. EIRP = P_{Meas} + G_T. P_{Meas} measured transmitter output power or PSD. G_T gain of the transmitting antenna. For Maximum PSD The PSD is measured following the same procedures described for measuring the maximum EIRP but with the RBW set to the reference bandwidth specified(eg.1MHz) by the applicable regulatory requirement, and by using the marker function to identify the maximum PSD instead of summing the power across the OBW.															
Test Instruments:	Refer to section 5.10 for details															
Test mode:	Refer to section 5.3 for details															
Test results:	Passed															

Measurement Data (EIRP):

Modulation	Frequency (MHz)	ANT. Port	Output Power (dBm/10MHz)	Total Power (dBm/10MHz)	Directional gain (dBi)	EIRP (dBm)	Limit (dBm)
QPSK (10MHz)	3555.00	ANT 0	1.27	4.64	18	22.64	23.00
		ANT 1	1.96				
	3625.00	ANT 0	1.58	4.64		22.64	
		ANT 1	1.67				
	3695.00	ANT 0	1.80	4.67		22.67	
		ANT 1	1.52				
64QAM (10MHz)	3555.00	ANT 0	1.37	4.31	18	22.31	
		ANT 1	1.23				
	3625.00	ANT 0	1.66	4.73		22.73	
		ANT 1	1.78				
	3695.00	ANT 0	1.82	4.66		22.66	
		ANT 1	1.47				
Modulation	Frequency (MHz)	ANT. Port	Output Power (dBm/10MHz)	Total Power (dBm/10MHz)	Directional gain (dBi)	EIRP (dBm)	Limit (dBm)
QPSK (15MHz)	3557.50	ANT 0	1.34	4.39	18	22.39	23.00
		ANT 1	1.42				
	3625.00	ANT 0	1.01	4.13		22.13	
		ANT 1	1.22				
	3692.50	ANT 0	1.47	4.49		22.49	
		ANT 1	1.49				
64QAM (15MHz)	3557.50	ANT 0	1.14	4.18	18	22.18	
		ANT 1	1.20				
	3625.00	ANT 0	1.14	4.13		22.13	
		ANT 1	1.10				
	3692.50	ANT 0	1.86	4.79		22.79	
		ANT 1	1.69				
Modulation	Frequency (MHz)	ANT. Port	Output Power (dBm/10MHz)	Total Power (dBm/10MHz)	Directional gain (dBi)	EIRP (dBm)	Limit (dBm)
QPSK (20MHz)	3660.00	ANT 0	1.14	4.23	18	22.23	23.00
		ANT 1	1.30				
	3625.00	ANT 0	1.37	4.32		22.32	
		ANT 1	1.24				
	3690.00	ANT 0	1.35	4.46		22.46	
		ANT 1	1.54				
64QAM (20MHz)	3660.00	ANT 0	1.11	4.14	18	22.14	
		ANT 1	1.15				
	3625.00	ANT 0	1.58	4.49		22.49	
		ANT 1	1.38				
	3690.00	ANT 0	1.66	4.68		22.68	
		ANT 1	1.68				

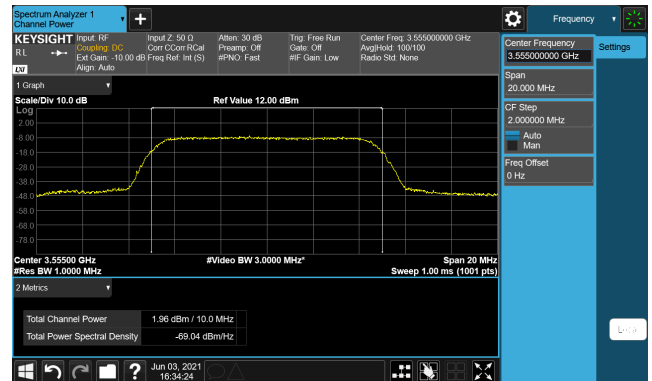
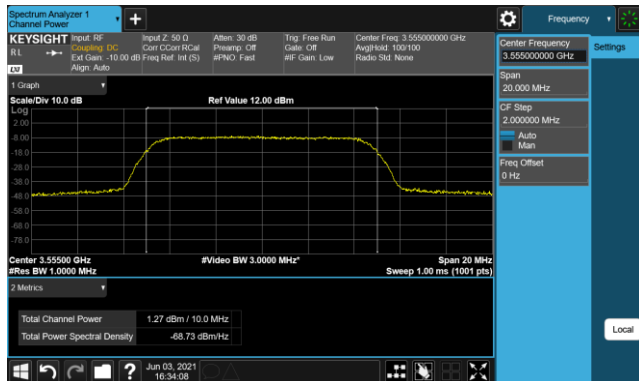
Full Transmit Output Power							
Modulation	Frequency (MHz)	ANT. Port	Output Power (dBm/15MHz)	Total Power (dBm/15MHz)	Directional gain (dBi)	EIRP (dBm)	Limit (dBm)
QPSK (15MHz)	3557.50	ANT 0	1.88	4.91	18	22.91	N/A
		ANT 1	1.92				
	3625.00	ANT 0	1.30	4.31		22.31	
		ANT 1	1.29				
	3692.50	ANT 0	1.92	4.97		22.97	
		ANT 1	1.99				
64QAM (15MHz)	3557.50	ANT 0	1.61	4.35	18	22.35	
		ANT 1	1.05				
	3625.00	ANT 0	1.38	4.37		22.37	
		ANT 1	1.34				
	3692.50	ANT 0	1.77	4.88		22.88	
		ANT 1	1.96				
Modulation	Frequency (MHz)	ANT. Port	Output Power (dBm/20MHz)	Total Power (dBm/20MHz)	Directional gain (dBi)	EIRP (dBm)	Limit (dBm)
QPSK (20MHz)	3660.00	ANT 0	1.68	4.67	18	22.67	N/A
		ANT 1	1.64				
	3625.00	ANT 0	1.21	4.53		22.53	
		ANT 1	1.81				
	3690.00	ANT 0	1.59	4.48		22.48	
		ANT 1	1.35				
64QAM (20MHz)	3660.00	ANT 0	1.60	4.77	18	22.77	
		ANT 1	1.92				
	3625.00	ANT 0	1.56	4.36		22.36	
		ANT 1	1.13				
	3690.00	ANT 0	1.79	4.66		22.66	
		ANT 1	1.51				

Test plot as below:

Bandwidth=10MHz – QPSK

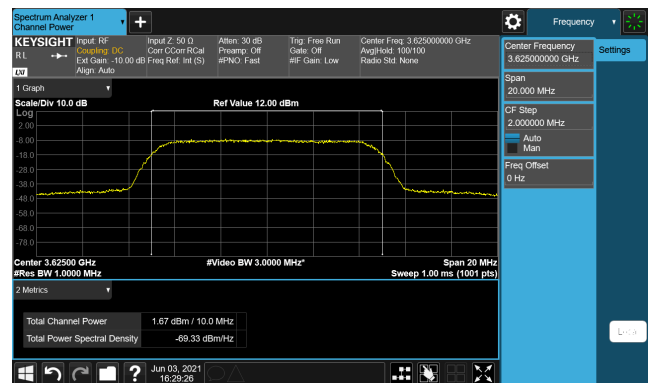
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ANT 1



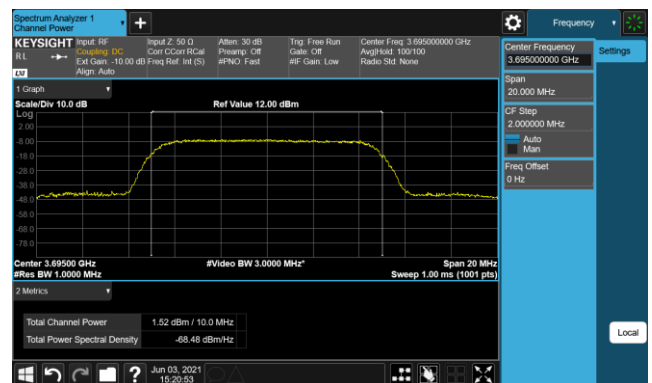
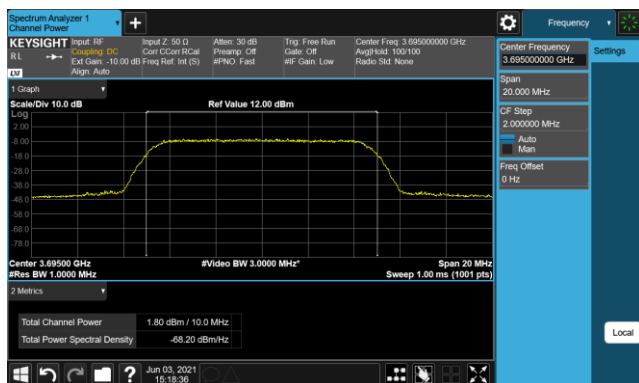
Lowest channel

Lowest channel



Middle channel

Middle channel



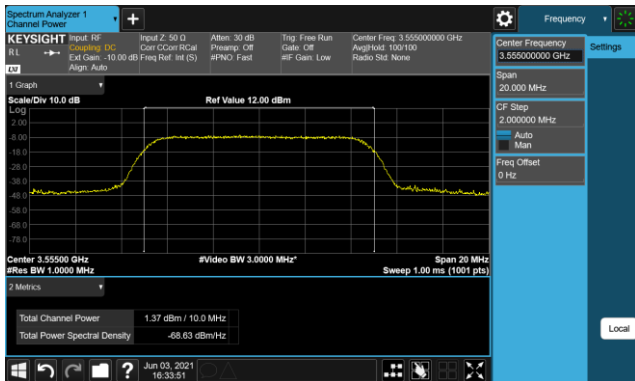
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Highest channel

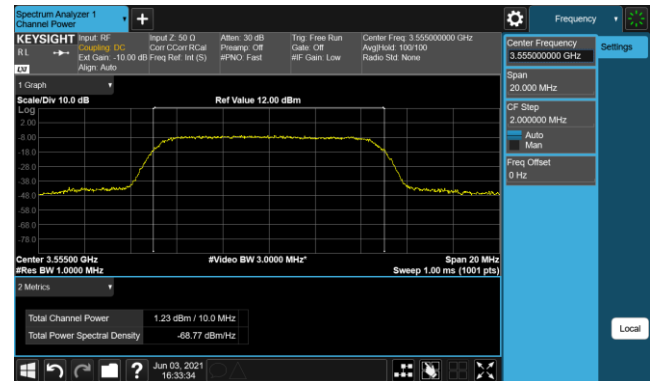
Bandwidth=10MHz – 64QAM

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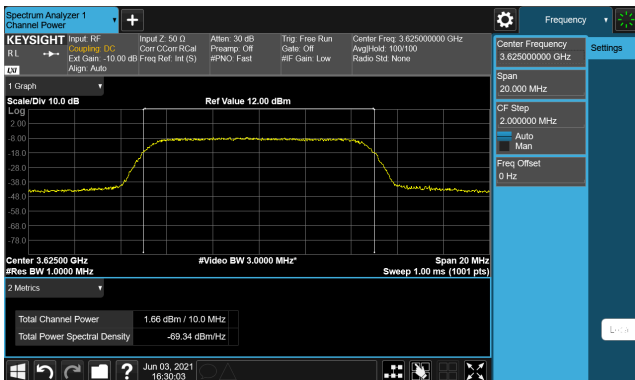
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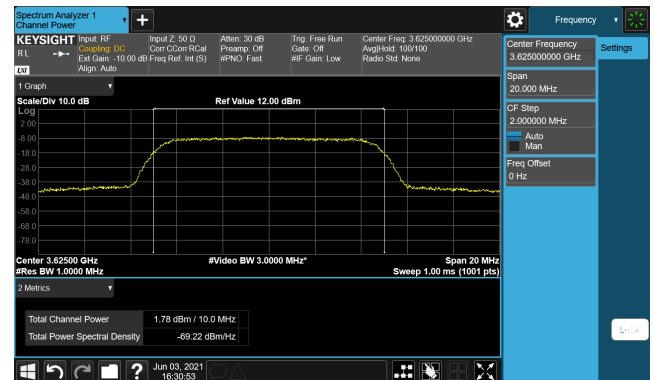
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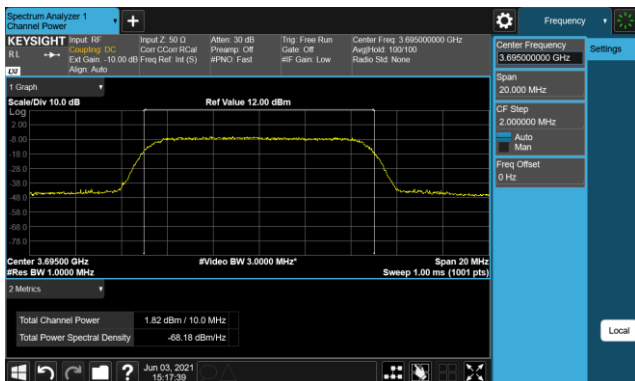
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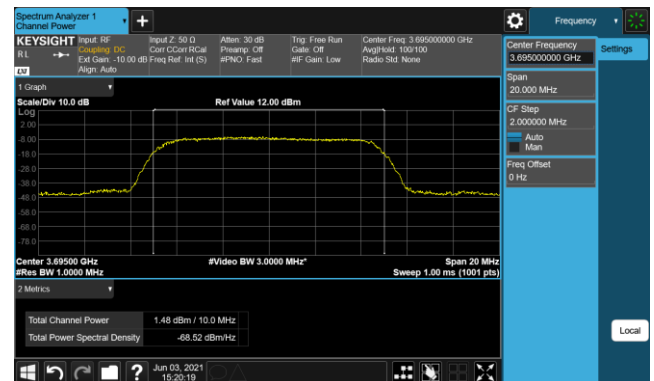
Middle channel



Middle channel



Highest channel

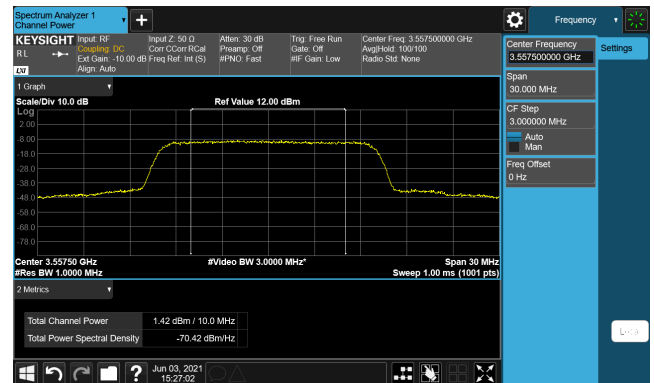
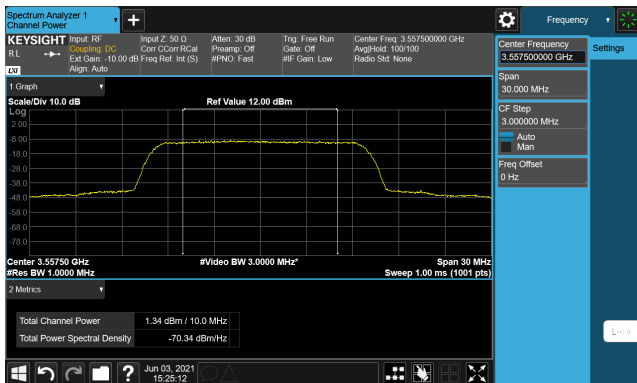


Highest channel

Bandwidth=15MHz – QPSK

ANT 0

ANT 1



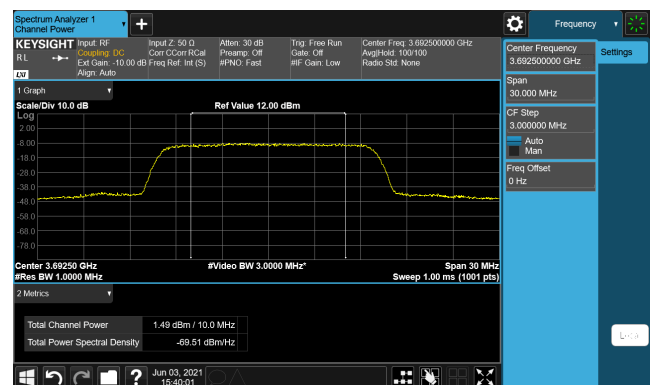
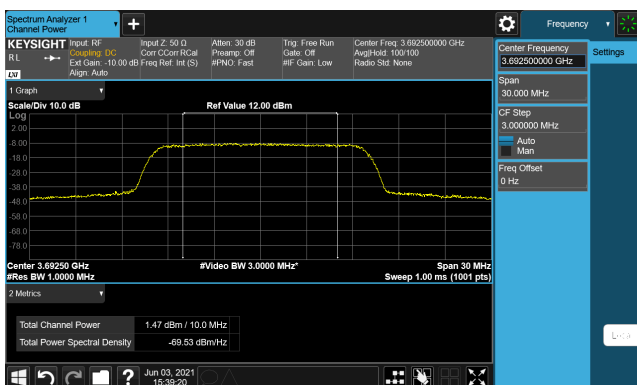
Lowest channel

Lowest channel



Middle channel

Middle channel



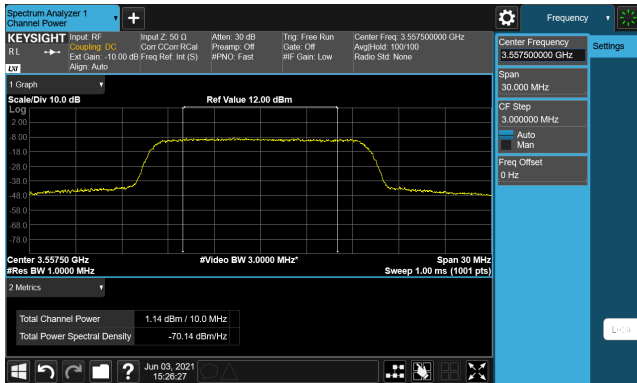
Highest channel

Highest channel

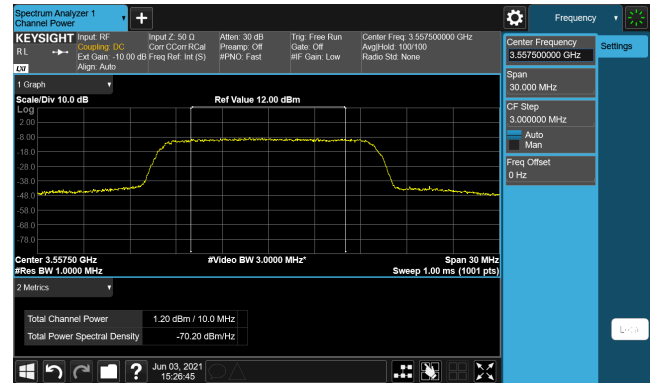
Bandwidth=15MHz – 64QAM

ANT 0

ANT 1



Lowest channel



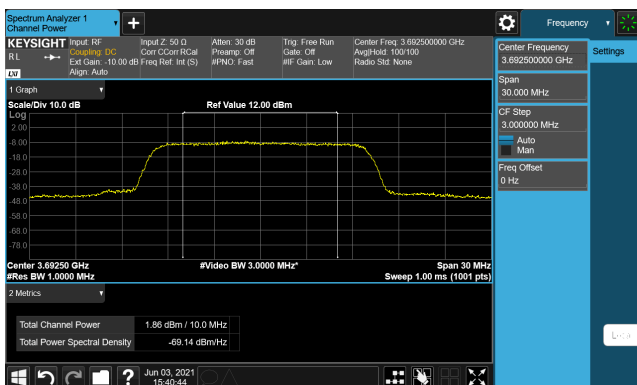
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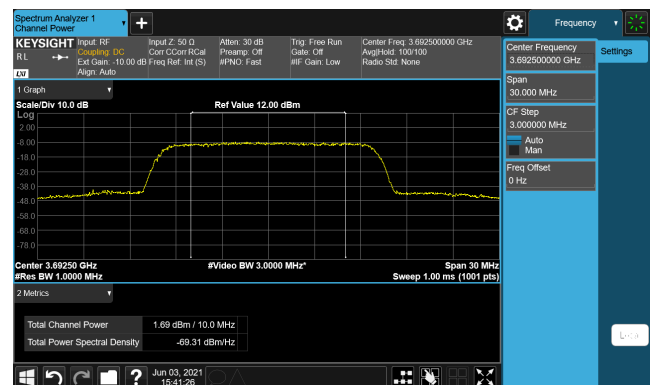
Middle channel



Middle channel



Highest channel

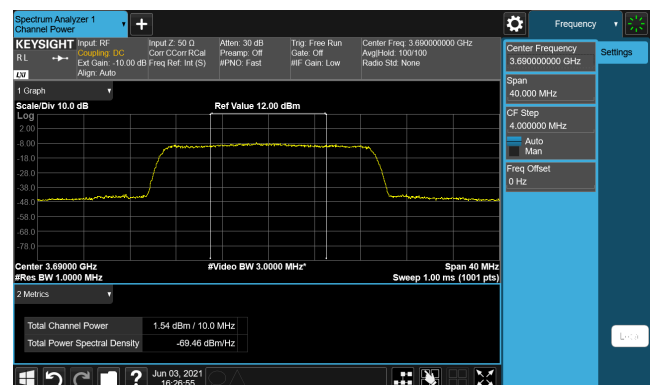
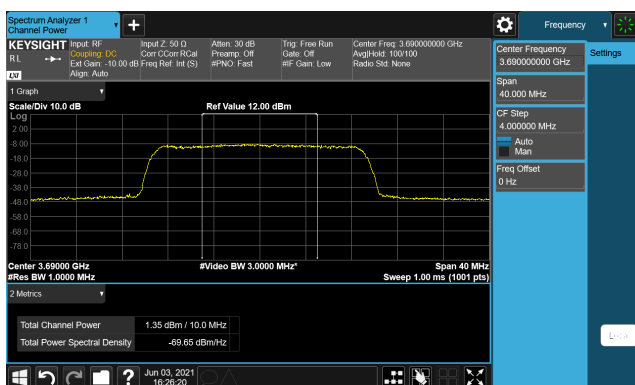
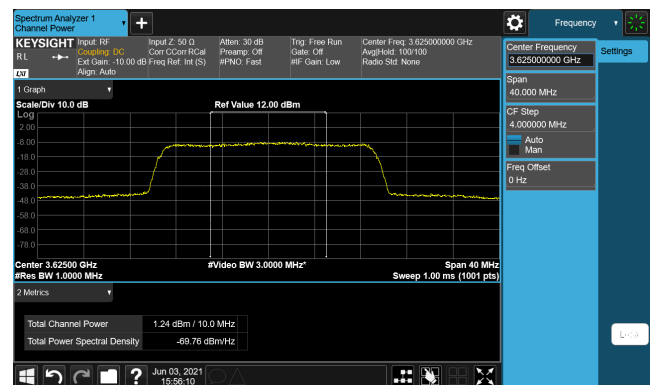
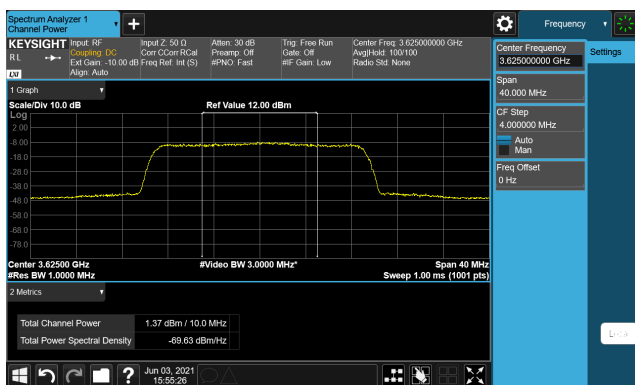
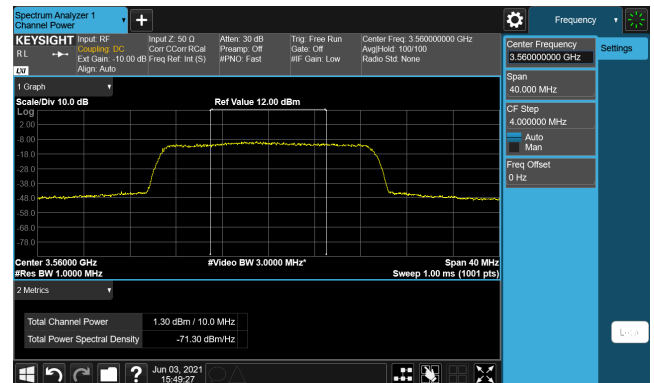
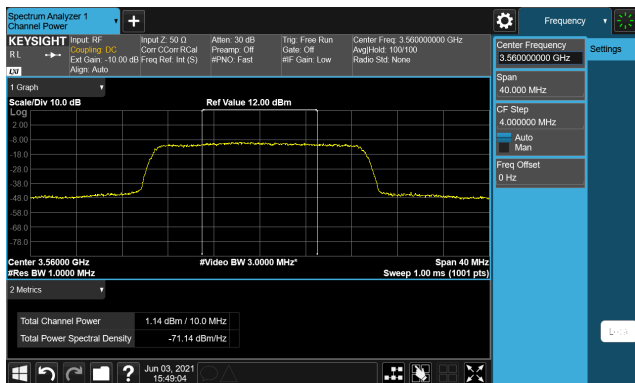


Highest channel

Bandwidth=20MHz – QPSK

ANT 0

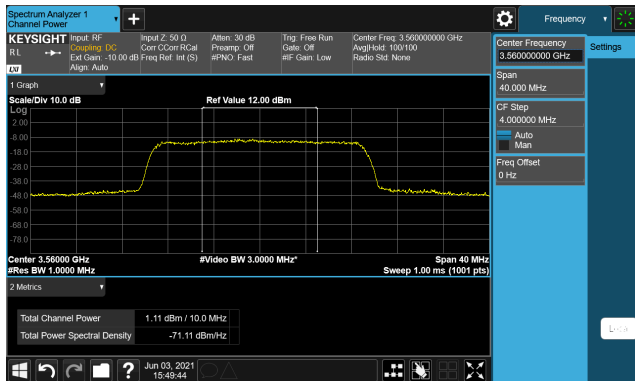
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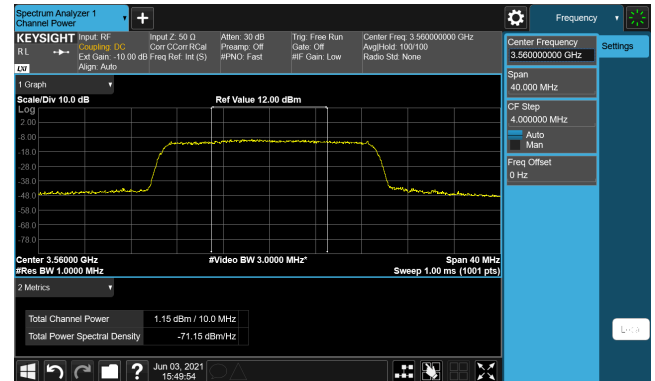
Bandwidth=20MHz – 64QAM

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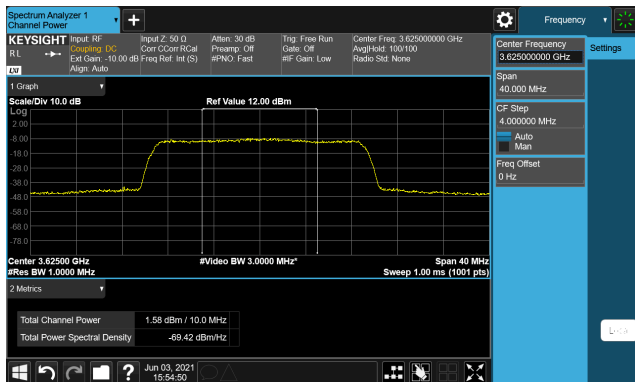
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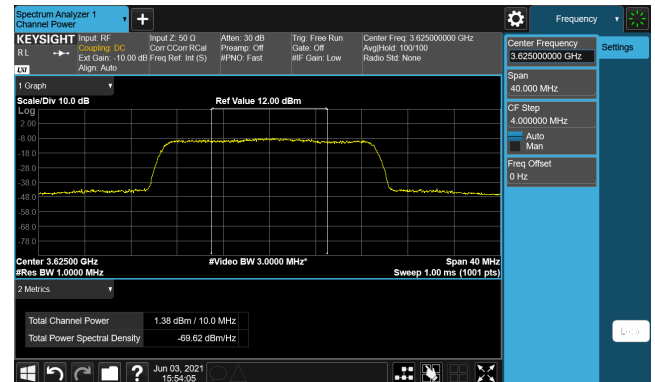
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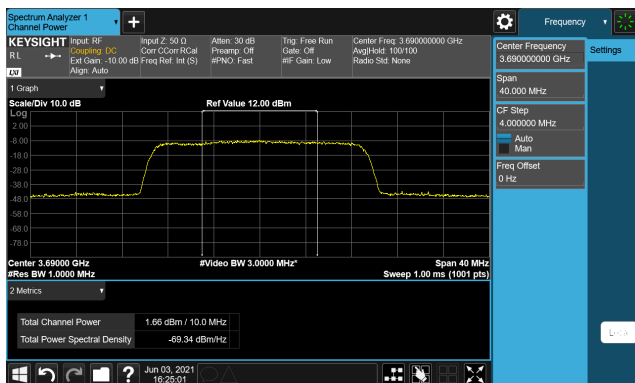
Lowest channel



Middle channel



Middle channel



Highest channel



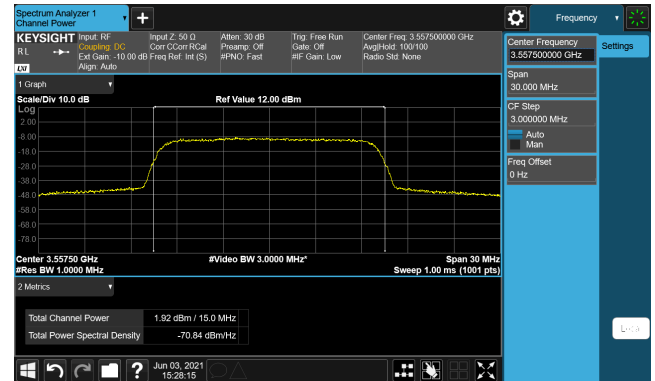
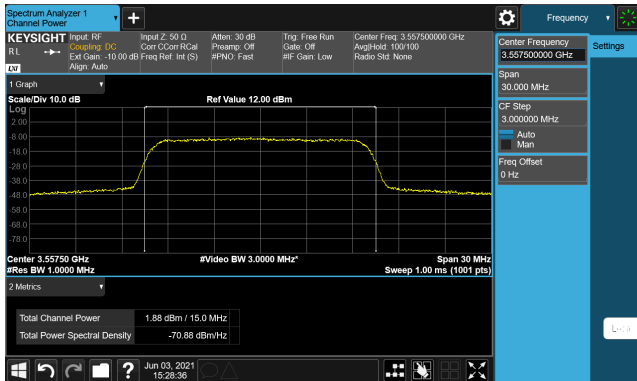
Highest channel

Ful Full Transmit Output Power :

Bandwidth=15MHz – QPSK

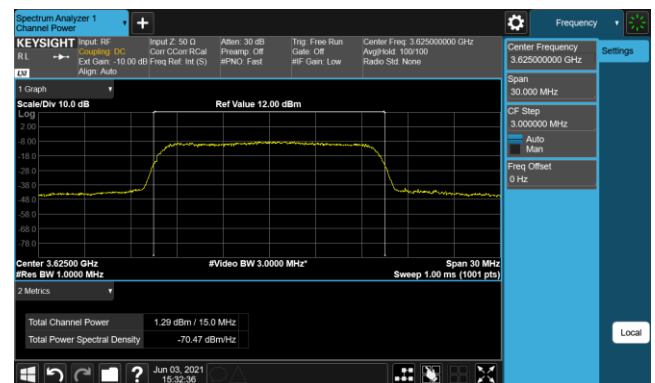
ANT 0

ANT 1



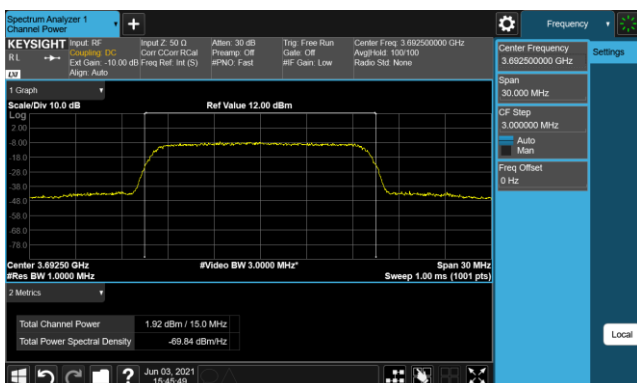
Lowest channel

Lowest channel



Middle channel

Middle channel



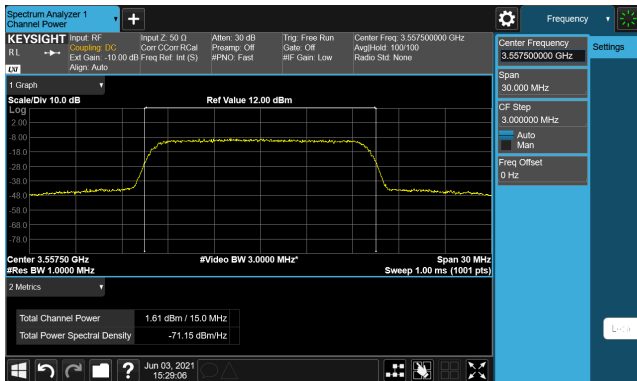
Highest channel

Highest channel

Bandwidth=15MHz – 64QAM

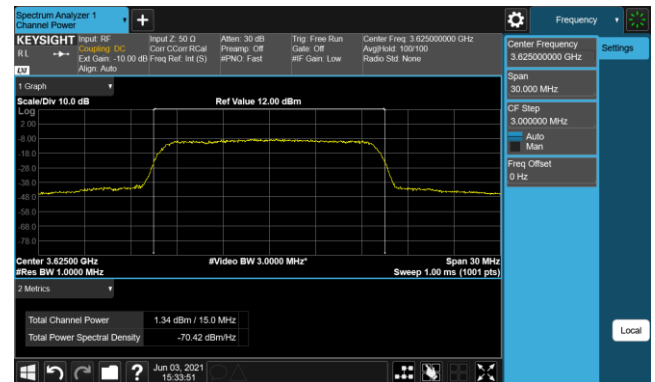
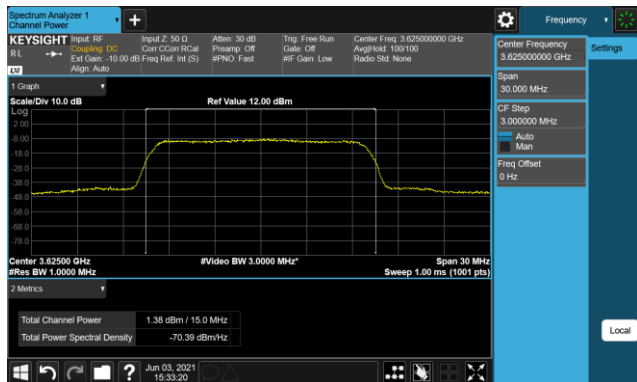
ANT 0

ANT 1



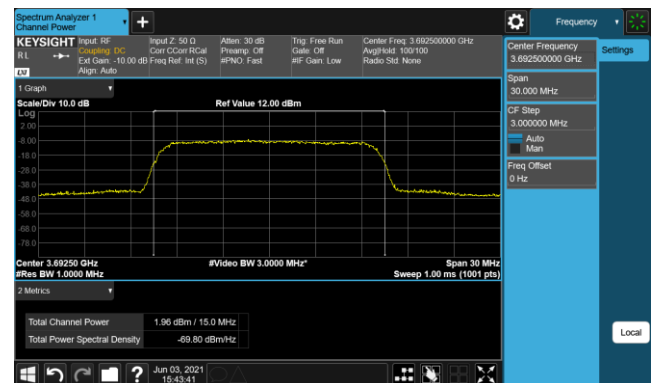
Lowest channel

Lowest channel



Middle channel

Middle channel



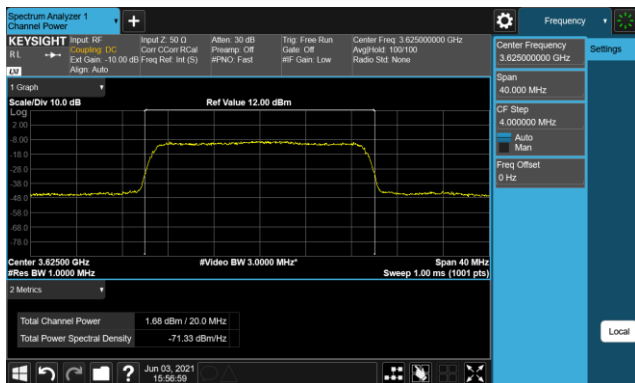
Highest channel

Highest channel

Bandwidth=20MHz – QPSK

ANT 0

ANT 1



Lowest channel



Lowest channel



Middle channel



Middle channel



Highest channel



Highest channel

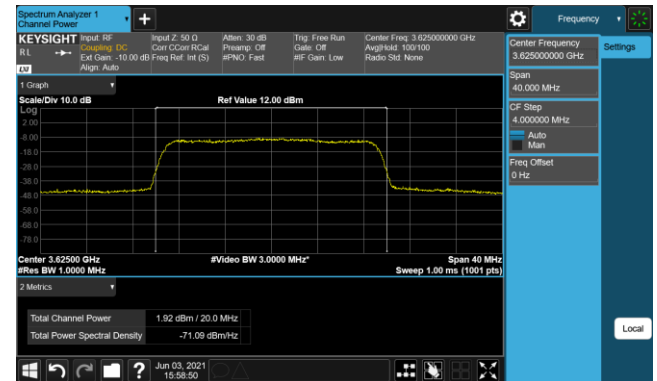
Bandwidth=20MHz – 64QAM

ANT 0

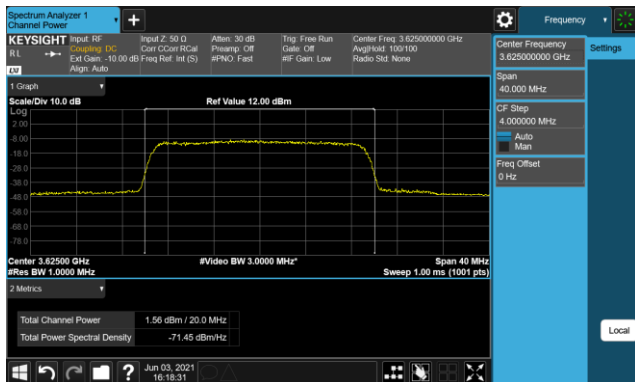
ANT 1



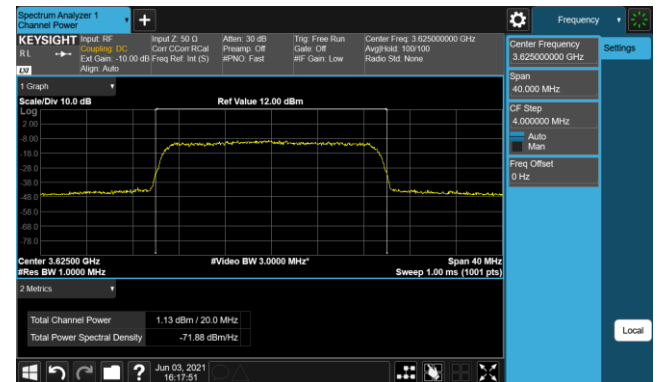
Lowest channel



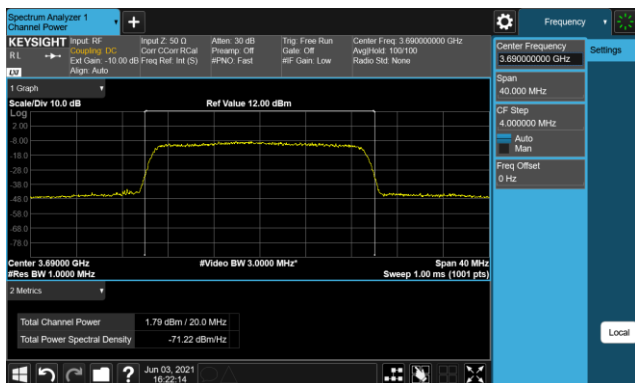
Lowest channel



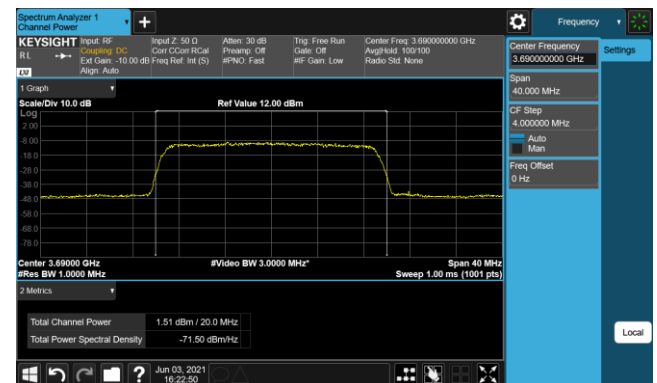
Middle channel



Middle channel

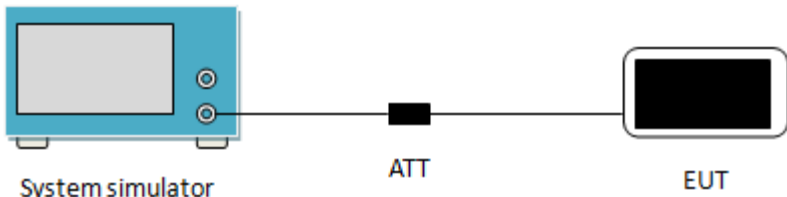


Highest channel



Highest channel

6.2 Peak-to-Average Power Ratio (PAPR)

Test Requirement:	FCC part 96.41(g)
Limit:	The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.
Test setup:	 System simulator ATT EUT
Test Procedure:	1 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. 2 Set the CCDF option in spectrum analyzer, RBW= OBW, 3 Set the EUT working in highest power level, measured and recorded the 0.1% as PAPR level. 4 Repeat step 1~3 at other frequency and modulations.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed (Pre-scan all modulation type (QPSK, 16-QAM, 64-QAM), and found the QPKS was the worst case. so only the worst case test data.)

Measurement Data:

Modulation	Frequency (MHz)	ANT. Port	PAPR(dB)	Limit(dB)	Result
20MHz – QPSK	3625.00	ANT 0	7.05	13.00	PASS
	3625.00	ANT 1	7.04		PASS
20MHz – 64QAM	3625.00	ANT 0	7.63		PASS
	3625.00	ANT 1	7.59		PASS

Bandwidth=20MHz – QPSK

ANT 0

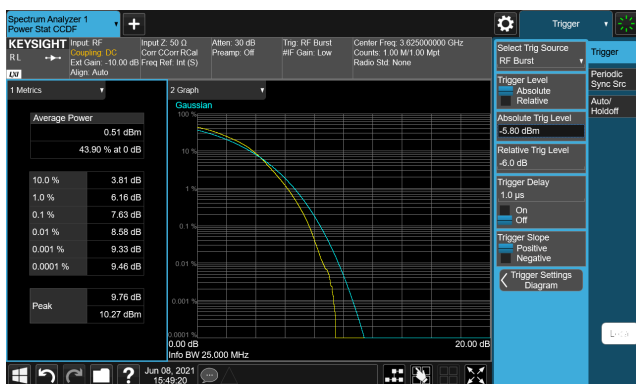
ANT 1



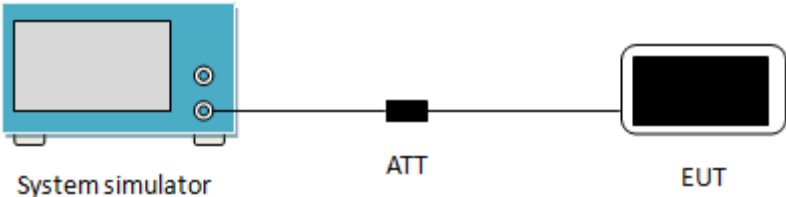
Bandwidth=20MHz – 64QAM

ANT 0

ANT 1



6.3 Occupy Bandwidth

Test Requirement:	FCC part 96.41(E)(3)
Test setup:	 The diagram illustrates the test setup for occupying bandwidth. It shows a 'System simulator' (represented by a blue box with a screen and buttons) connected via a cable to an 'ATT' (Attenuator, represented by a black box). The 'ATT' is then connected via another cable to an 'EUT' (Equipment Under Test, represented by a black rectangular box).
Test Procedure:	1. The EUT's output RF connector was connected with a short cable to the spectrum analyzer 2. The transmitter shall be operated at its maximum carrier power measured under normal test conditions. 3. The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts. 4. The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the occupied bandwidth (OBW) and video bandwidth (VBW) shall be approximately 3x RBW.
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data:

Test Channel	Bandwidth (MHz)	Modulation	Ant. Port	26dB Occupy bandwidth (MHz)	99% Occupy bandwidth (MHz)
Lowest	10	QPSK	ANT 0	9.726	9.037
			ANT 1	9.694	9.006
		64QAM	ANT 0	9.677	9.036
			ANT 1	9.770	9.058
Middle	10	QPSK	ANT 0	9.704	9.042
			ANT 1	9.696	9.040
		64QAM	ANT 0	9.707	9.054
			ANT 1	9.758	9.046
Highest	10	QPSK	ANT 0	9.700	9.047
			ANT 1	9.746	9.038
		64QAM	ANT 0	9.699	9.016
			ANT 1	9.756	9.025
Lowest	15	QPSK	ANT 0	14.180	13.408
			ANT 1	14.230	13.433
		64QAM	ANT 0	14.180	13.432
			ANT 1	14.290	13.440
Middle	15	QPSK	ANT 0	14.220	13.442
			ANT 1	14.200	13.435
		64QAM	ANT 0	14.260	13.478
			ANT 1	14.180	13.420
Highest	15	QPSK	ANT 0	14.200	13.441
			ANT 1	14.250	13.457
		64QAM	ANT 0	14.210	13.463
			ANT 1	14.190	13.468
Lowest	20	QPSK	ANT 0	18.740	17.897
			ANT 1	18.690	17.879
		64QAM	ANT 0	18.740	17.885
			ANT 1	18.710	17.891
Middle	20	QPSK	ANT 0	18.690	17.885
			ANT 1	18.720	17.870
		64QAM	ANT 0	18.760	17.924
			ANT 1	18.710	17.810
Highest	20	QPSK	ANT 0	18.720	17.901
			ANT 1	18.770	17.874
		64QAM	ANT 0	18.690	17.861
			ANT 1	18.780	17.898

Test plot as follows:

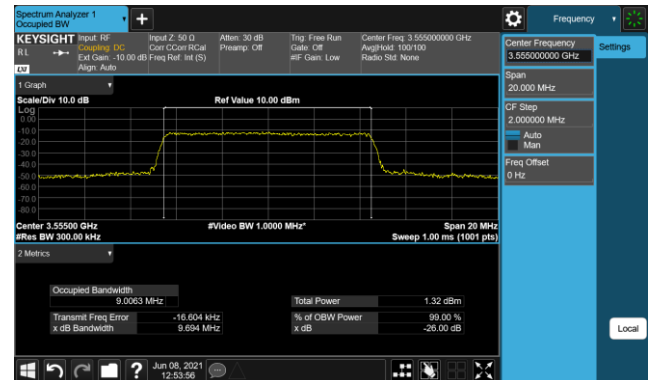
LTE Band 48
BW: 10MHz, QPSK

ANT 0

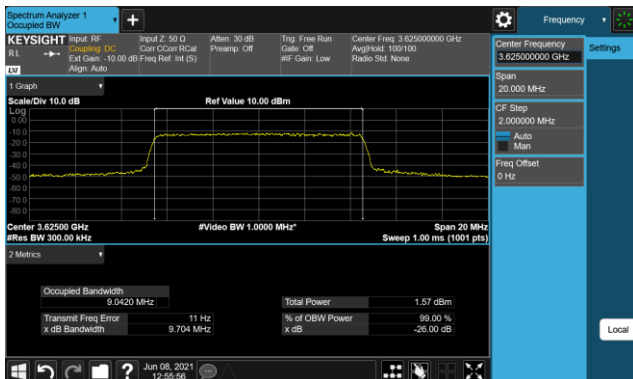
ANT 1



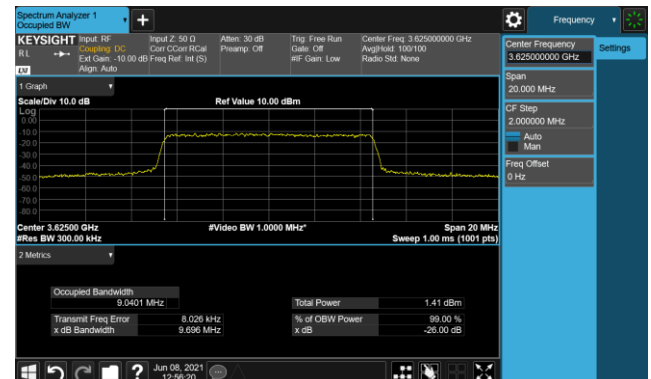
Lowest channel



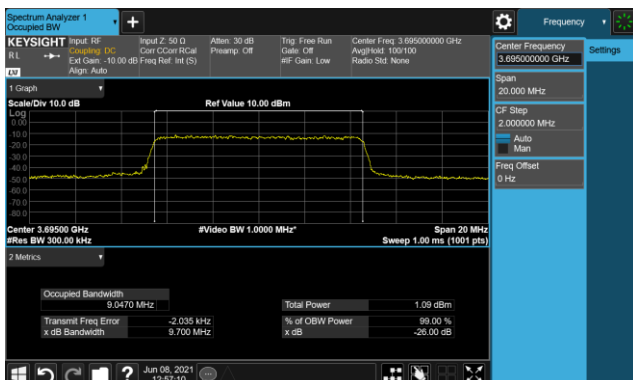
Lowest channel



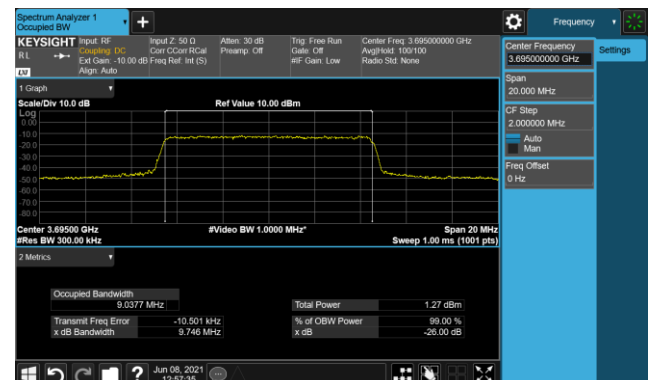
Middle channel



Middle channel



Highest channel

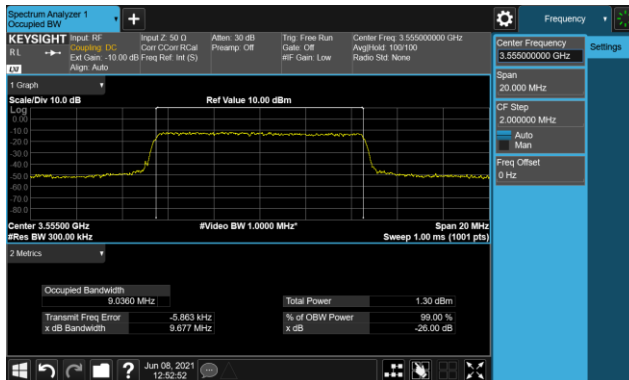


Highest channel

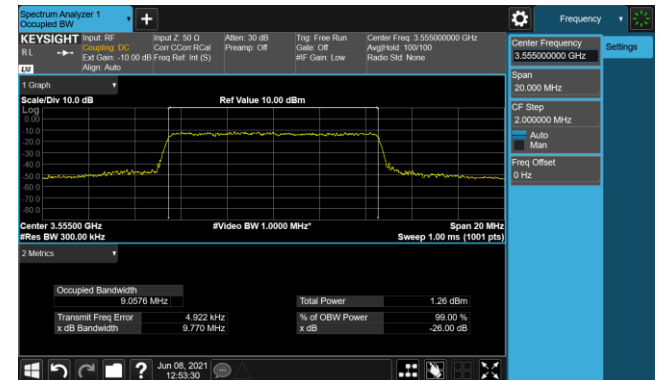
LTE Band 48
BW: 10MHz, 64QAM

ANT 0

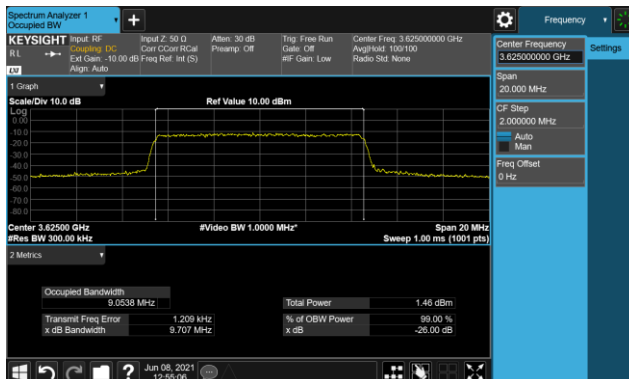
ANT 1



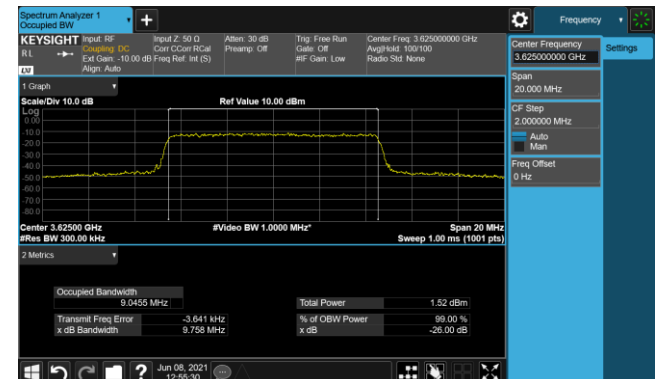
Lowest channel



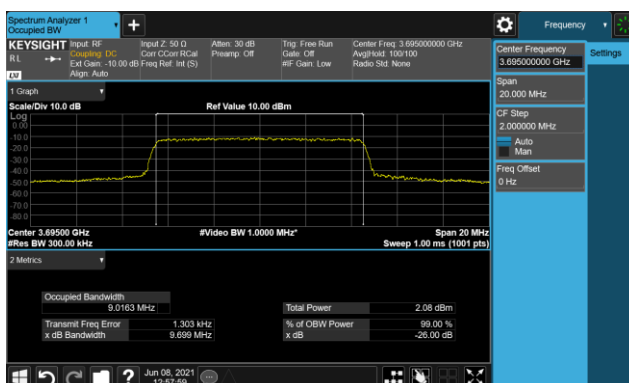
Lowest channel



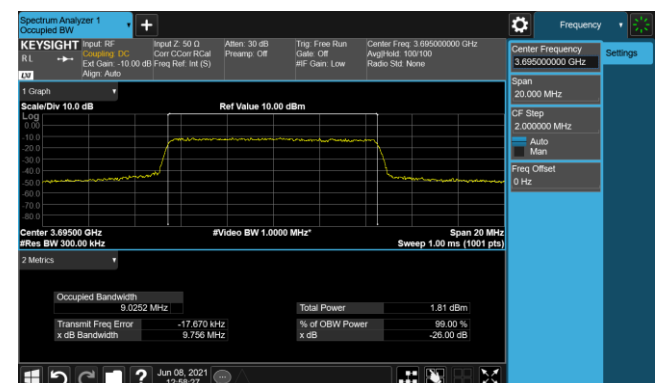
Middle channel



Middle channel



Highest channel

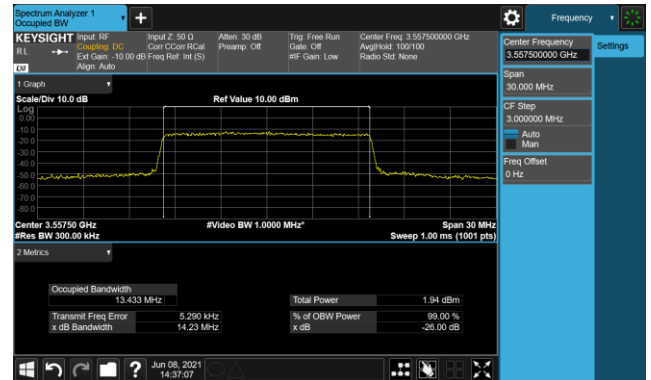
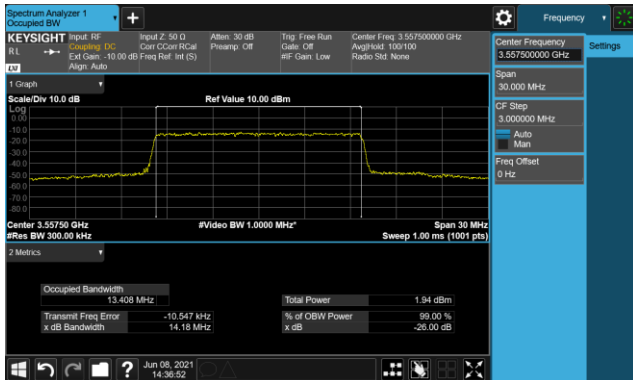


Highest channel

LTE Band 48
BW: 15MHz, QPSK

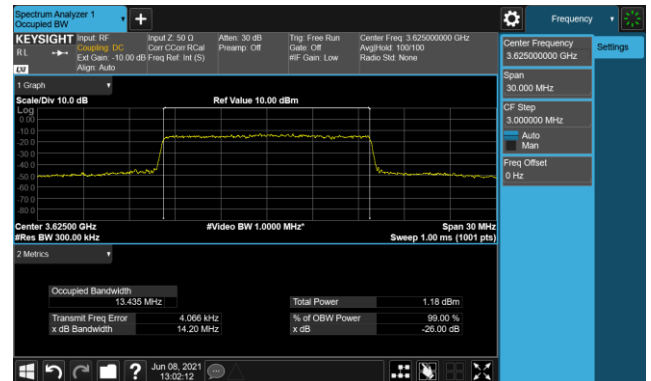
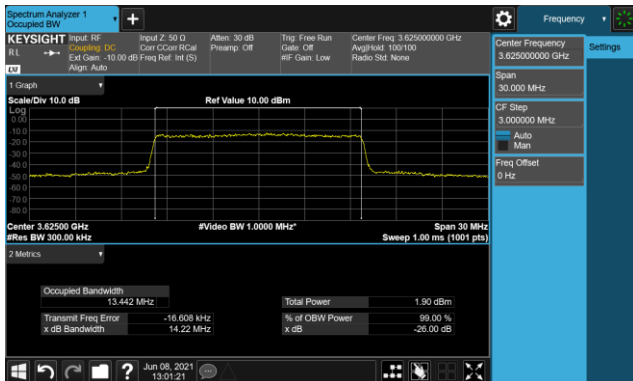
ANT 0

ANT 1



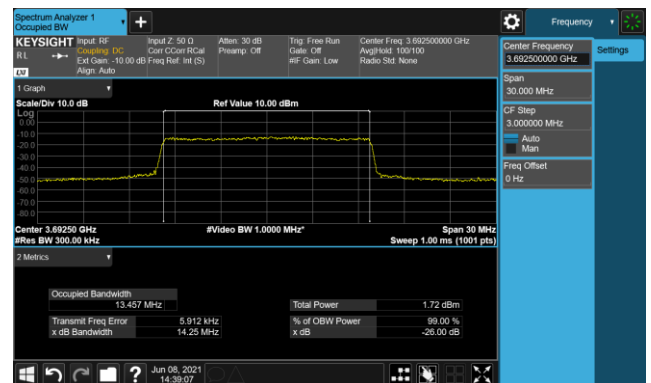
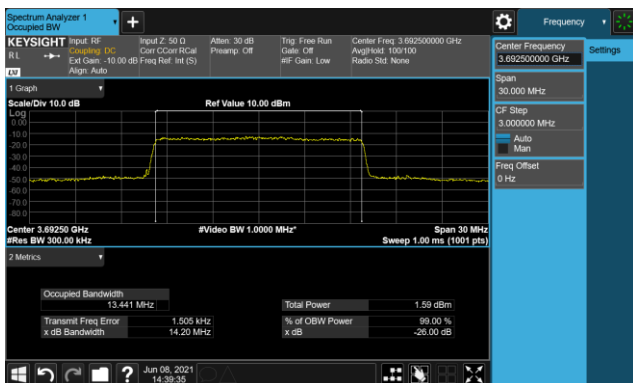
Lowest channel

Lowest channel



Middle channel

Middle channel



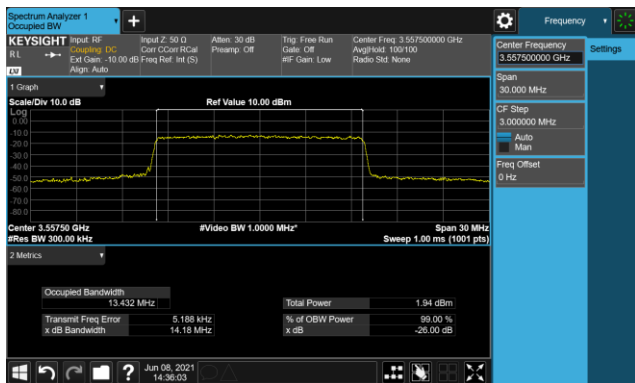
Highest channel

Highest channel

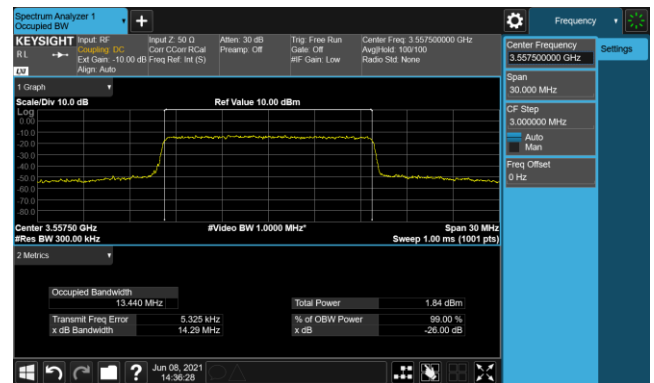
LTE Band 48
BW: 15MHz, 64QAM

ANT 0

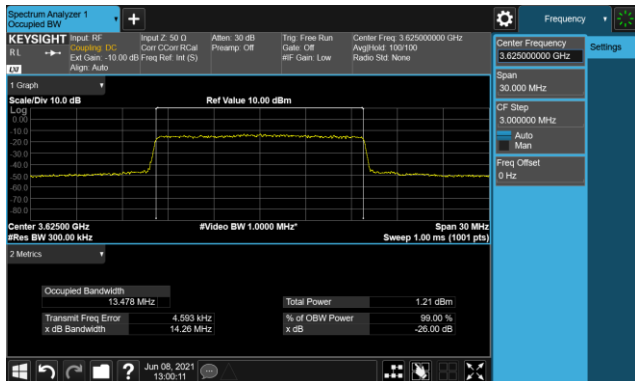
ANT 1



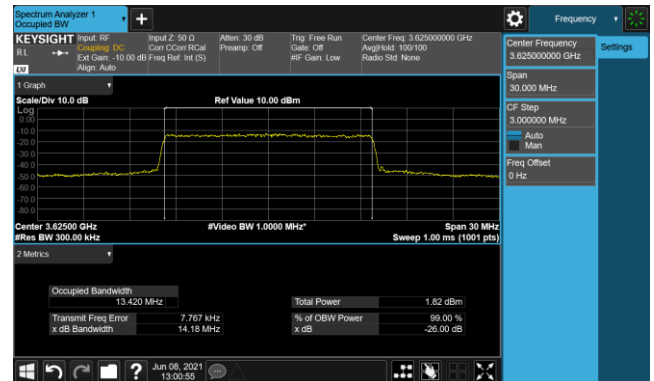
Lowest channel



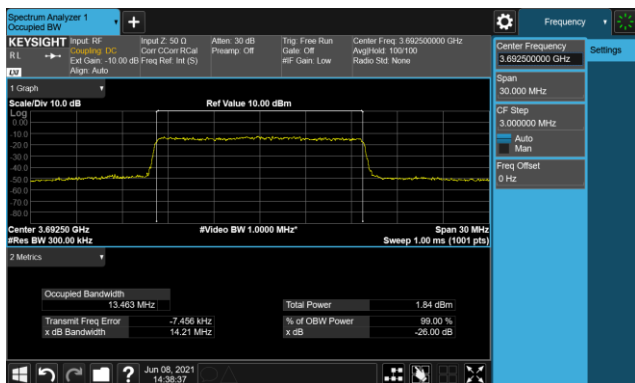
Lowest channel



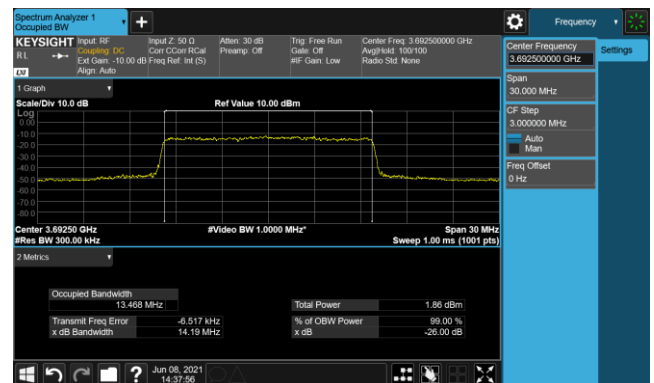
Middle channel



Middle channel



Highest channel



Highest channel