



TEST REPORT

APPLICANT : Reliance Communications LLC

PRODUCT NAME : Orbic Speed 5G

MODEL NAME : R500L5

BRAND NAME : Orbic

FCC ID : 2ABGH-R500L5

STANDARD(S) : 47 CFR Part 22, Subpart H
47 CFR Part 24, Subpart E
47 CFR Part 27, Subpart F&L
47 CFR Part 27, Subpart A

RECEIPT DATE : 2021-03-09

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Edited by: Tang Jinde
Tang Jinde (Rapporteur)

Approved by: Shen Junsheng
Shen Junsheng (Supervisor)

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DIRECTORY

1. Technical Information	3
1.1. Applicant and Manufacturer Information	3
1.2. Equipment Under Test (EUT) Description	3
1.3. Maximum ERP/EIRP and Emission Designator	5
1.4. Test Standards and Results	7
1.5. Environmental Conditions	9
2. 47 CFR Part 2, 22H, 24E, 27H&F&L and 96A Requirements	10
2.1. Transmitter Conducted Output Power And ERP/EIPR	10
2.2. Occupied Bandwidth	13
2.3. Conducted Spurious Emissions	30
2.4. Band Edge	52
2.5. Radiated Spurious Emissions	61
Annex A Test Uncertainty	76
Annex B Testing Laboratory Information	77

Change History		
Version	Date	Reason for change
1.0	2021-10-11	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Reliance Communications LLC
Applicant Address:	91 Colin Drive, Unit 1, HOLBROOK, New York 11741, United States
Manufacturer:	Unimaxcomm
Manufacturer Address:	Room 602, Floor 6th, Building B, Software Park T3,Hi-Tech Park South, Nanshan District, Shenzhen, P.R. China

1.2. Equipment Under Test (EUT) Description

Product Name:	Orbic Speed 5G	
Hardware Version:	V1.2	
Software Version:	ORB500L5_v1.0.1.3_BVZRT	
IMEI:	35224120	
Modulation Type:	QPSK, 16QAM,64QAM	
Operation Band:	Uplink:2A_4A; 2A_5A; 2A_12A; 2A_13A; 2A_66A; 4A_5A; 4A_12A; 4A_13A; 5A_66A; 13A_66A;13A_66A; 66B; 66C; 48C	
Channel Bandwidth	LTE 2A_4A	5MHz, 10MHz, 15MHz, 20MHz
	LTE 2A_5A	5MHz, 10MHz, 15MHz, 20MHz
	LTE 2A_12A	5MHz, 10MHz, 15MHz, 20MHz
	LTE 2A_13A	5MHz, 10MHz, 15MHz, 20MHz
	LTE 2A_66A	5MHz, 10MHz, 15MHz, 20MHz
	LTE 4A_5A	5MHz, 10MHz, 15MHz, 20MHz
	LTE 4A_12A	5MHz, 10MHz, 15MHz, 20MHz
	LTE 4A_13A	5MHz, 10MHz, 15MHz, 20MHz
	LTE 5A_66A	5MHz, 10MHz, 15MHz, 20MHz
	LTE 12A_66A	5MHz, 10MHz, 15MHz, 20MHz
	LTE 13A_66A	5MHz, 10MHz, 15MHz, 20MHz
	LTE 66B	5MHz, 10MHz, 15MHz, 20MHz
	LTE 66C	5MHz, 10MHz, 15MHz, 20MHz
	LTE 48C	5MHz, 10MHz, 15MHz, 20MHz



Antenna Type:	PIFA Antenna	
Antenna Gain:	LTE Band 2	3.80 dBi
	LTE Band 4	3.68 dBi
	LTE Band 5	-0.10 dBi
	LTE Band 12	-0.55 dBi
	LTE Band 13	-0.10 dBi
	LTE Band 48	1.70 dBi
	LTE Band 66	3.68 dBi
Accessory Information:	AC Adapter 1	
	Brand Name:	Orbic
	Model No.:	TPA-23A050200UU01
	Serial No.:	(N/A, marked #1 by test site)
	Rated Input:	100-240V~ 50/60HZ,0.3A
	Rated Output:	5V---2A
	Manufacturer:	Dongguan summer electronics Co., LTD
	Battery	
	Brand Name:	Orbic
	Model No.:	BTE-4401
	Serial No.:	(N/A, marked #1 by test site)
	Capacity:	4400mAh
	Rated Voltage:	3.8V
	Charge Limit:	4.35V
	Manufacturer:	HUIZHOU DXDRAGON INC

Note 1: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

1.3. Maximum ERP/EIRP and Emission Designator

Channel bandwidth	Maximum ERP/EIRP (W)		
	QPSK	16QAM	64QAM
CA_66B			
10+10	0.634	0.625	0.364
CA_66C			
20+20	0.614	0.596	0.571
CA_48C			
20+20	24.94	/	/
CA_2A-4A			
20+20	0.605	/	/
CA_2A-5A			
20+10	0.617	/	/
CA_2A-12A			
20+10	0.596		
CA_2A-13A			
20+10	0.612	/	/
CA_2A-66A			
20+20	0.612	/	/
CA_4A-5A			
20+10	0.571	/	/
CA_4A-12A			
20+10	0.587		
CA_4A-13A			
20+10	0.537	/	/
CA_5A-66A			
10+20	0.136	/	/
CA_12A-66A			
10+20	0.121		
CA_13A-66A			
10+20	0.135	/	/

Channel bandwidth	Emission Designator (99%OBW)		
LTE 66B	QPSK	16QAM	64QAM
5+5	9M34G7D	9M33W7D	9M28D7W
5+10	13M8G7D	13M8W7D	13M8D7W
5+15	18M1G7D	18M1W7D	18M1D7W
10+5	13M9G7D	13M9W7D	13M9D7W
10+10	18M7G7D	18M7W7D	18M7D7W
15+5	18M2G7D	18M2W7D	18M1D7W
LTE 66C	QPSK	16QAM	64QAM
5+20	22M6G7D	22M9W7D	22M7D7W
10+15	23M0G7D	23M0W7D	23M0D7W
10+20	27M5G7D	27M5W7D	27M5D7W
15+10	23M0G7D	23M0W7D	23M0D7W
15+15	28M2G7D	28M2W7D	28M2D7W
15+20	32M4G7D	32M5W7D	32M5D7W
20+5	22M8G7D	22M8W7D	22M8D7W
20+10	27M6G7D	27M6W7D	27M6D7W
20+15	33M4G7D	33M4W7D	33M4D7W
20+20	37M3G7D	37M3W7D	37M3D7W
LTE 48C	QPSK	16QAM	64QAM
5+20	22M8G7D	22M8W7D	22M7D7W
10+20	27M6G7D	27M7W7D	27M6D7W
15+20	32M4G7D	32M7W7D	32M4D7W
20+5	22M8G7D	22M9W7D	22M8D7W
20+10	27M6G7D	27M6W7D	27M7D7W
20+15	32M5G7D	32M6W7D	32M6D7W
20+20	37M5G7D	37M5W7D	37M5D7W



1.4. Test Standards and Results

The objective of the report is to perform testing according to Part 2, Part 22, Part 24, Part 27 and Part 96 for the EUT FCC ID Certification:

No	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 22	Public Mobile Services
3	47 CFR Part 24	Personal Communications Services
4	47 CFR Part 27	Miscellaneous Wireless Communications Services
5	47 CFR Part 96	Citizens Broadband Radio Service



Test detailed items/section required by FCC rules and results are as below:

Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
2.1046, 22.913(a)(2), 24.232(c), 27.50, 96.41	Transmitter Conducted Output Power and ERP/EIRP	Mar 31 to Sep 15, 2021	Chen Haiju/Li Hanbin	PASS	No deviation
2.1049	Occupied Bandwidth	Mar 31 to Sep 16, 2021	Chen Haiju/Li Hanbin	PASS	No deviation
2.1051, 22.917(a), 24.238, 27.53, 96.41(e)	Conducted Spurious Emissions	Mar 31 to Sep 17, 2021	Chen Haiju/Li Hanbin	PASS	No deviation
2.1051, 22.917(a), 24.238, 27.53, 96.41(e)	Band Edge	Mar 31 to Sep 18, 2021	Chen Haiju/Li Hanbin	PASS	No deviation
2.1051, 22.917(a), 24.238, 27.53, 96.41(e)	Radiated Spurious Emissions	Mar 31 to Sep 18, 2021	Yang Jie/Yi Xiaogang	PASS	No deviation

Note 1: The tests were performed according to the method of measurements prescribed in KDB971168 D01 v03 and ANSI/TIA-603-E-2016.

Note 2: The path loss during the RF test is calibrated to correct the results by the offset setting in the test equipments. The ref offset 13 dB contains two parts that cable loss 13 dB.

Note 3: These items please refer to the 4G module report SZ21010262W03(LTE CA) which The FCC ID is 2ABGH-R100ML5 and the 4G module has been certified by Shenzhen Morlab Communications Technology Co., Ltd. on 07/02/2021.

Note 4: There is no more evaluation for host RSE because the hosts are the same between hotspot and module when RSE test. For all test results, please refer to Report No.: SZ21010262W03.



1.5. Environmental Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15 - 35
Relative Humidity (%):	30 -60
Atmospheric Pressure (kPa):	86-106

2.47 CFR Part 2, 22H, 24E, 27H&F&L and 96A Requirements

2.1. Transmitter Conducted Output Power And ERP/EIPR

2.1.1. Requirement

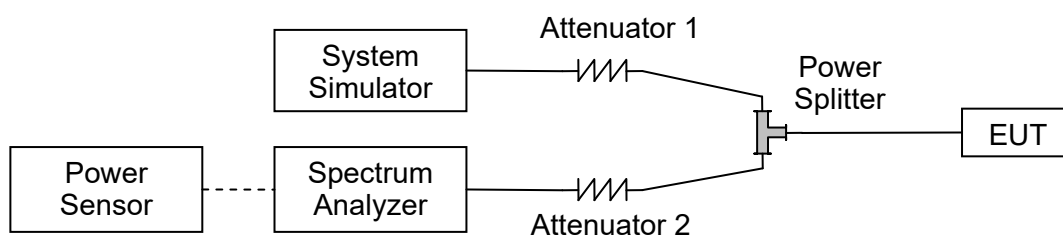
According to FCC section 2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

According to FCC section 22.913 (a.2) for LTE Band 5, the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC section 27.50 (d)(4) for Band 66, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

According to FCC section 96.41(b) for LTE Band 48, the EIRP of any CBSD and End User Device must not exceed 23 dBm/10MHz.

2.1.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.1.3. Test procedure

KDB 971168 D01v03 Section 5.2 and ANSI/TIA-603-E-2016.

$$\text{EIRP (dBm)} = \text{Conducted Output Power (dBm)} + \text{Antenna Gain (dBi)}$$



ERP (dBm) = EIPR (dBm) - 2.15

2.1.4. Result

Note: The test results of Band 48C as below, the others please refer to Report No.: SZ21010262W03.

Conducted Output Power

CA_48C								
Combination:20MHz+20MHz(100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
			RB Size	RB Offset	RB Size	RB Offset		
55340	55538	QPSK	1	0	0	0	1	23.11
55891	56089	QPSK	1	0	0	0	1	23.19
56442	56640	QPSK	1	0	0	0	1	23.24
55340	55538	16QAM	1	0	0	0	1	/
55891	56089	16QAM	1	0	0	0	1	/
56442	56640	16QAM	1	0	0	0	1	/
55340	55538	64QAM	1	0	0	0	1	/
55891	56089	64QAM	1	0	0	0	1	/
56442	56640	64QAM	1	0	0	0	1	/
55340	55538	QPSK	50	0	0	0	1	/
55891	56089	QPSK	50	0	0	0	1	/
56442	56640	QPSK	50	0	0	0	1	/

**Effective Radiated Power and Effective Isotropic Radiated Power**

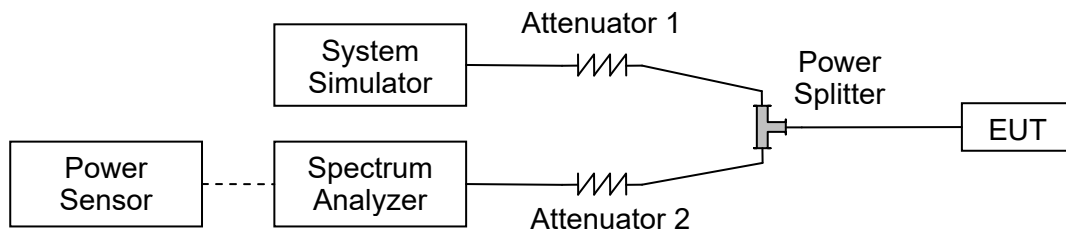
CA_48C									
Combination:20MHz+20MHz(100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Measured EIRP(W)
			RB Size	RB Offset	RB Size	RB Offset			
55340	55538	QPSK	1	0	0	0	1	24.81	0.303
55891	56089	QPSK	1	0	0	0	1	24.89	0.308
56442	56640	QPSK	1	0	0	0	1	24.94	0.312
55340	55538	16QAM	1	0	0	0	1	/	/
55891	56089	16QAM	1	0	0	0	1	/	/
56442	56640	16QAM	1	0	0	0	1	/	/
55340	55538	64QAM	1	0	0	0	1	/	/
55891	56089	64QAM	1	0	0	0	1	/	/
56442	56640	64QAM	1	0	0	0	1	/	/
55340	55538	QPSK	50	0	0	0	1	/	/
55891	56089	QPSK	50	0	0	0	1	/	/
56442	56640	QPSK	50	0	0	0	1	/	/

2.2. Occupied Bandwidth

2.2.1. Requirement

According to FCC section 2.1049, the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission. Occupied bandwidth is also known as the 99% emission bandwidth.

2.2.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.2.3. Test procedure

KDB 971168 D01v03 Section 4.1 and ANSI/TIA-603-E-2016.

2.2.4. Test Result

Note: The test results of Band 48C as below, the others please refer to Report No.: SZ21010262W03.



LTE Band 48C				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
5M+20MHz	Low	QPSK	22.64	23.46
	Low	16QAM	22.49	23.46
	Low	64QAM	22.59	23.41
	Mid	QPSK	22.59	23.46
	Mid	16QAM	22.75	23.49
	Mid	64QAM	22.65	23.48
	High	QPSK	22.68	23.47
	High	16QAM	22.63	23.48
	High	64QAM	22.57	23.44
10M+20MHz	Low	QPSK	27.50	28.49
	Low	16QAM	27.59	28.47
	Low	64QAM	27.38	28.50
	Mid	QPSK	27.48	28.63
	Mid	16QAM	27.38	28.51
	Mid	64QAM	27.57	28.47
	High	QPSK	27.60	28.50
	High	16QAM	27.69	28.64
	High	64QAM	27.53	28.54
15M+20MHz	Low	QPSK	32.41	33.55
	Low	16QAM	32.53	33.59
	Low	64QAM	32.42	33.62
	Mid	QPSK	32.21	33.59
	Mid	16QAM	32.67	33.62
	Mid	64QAM	32.22	33.55
	High	QPSK	32.40	33.61
	High	16QAM	32.49	33.58
	High	64QAM	32.39	33.50
20M+5MHz	Low	QPSK	27.76	23.559
	Low	16QAM	22.85	23.59
	Low	64QAM	22.72	23.52
	Mid	QPSK	22.76	23.54
	Mid	16QAM	22.78	23.66
	Mid	64QAM	22.74	23.53
	High	QPSK	22.70	23.58
	High	16QAM	22.75	23.56
	High	64QAM	22.82	23.55

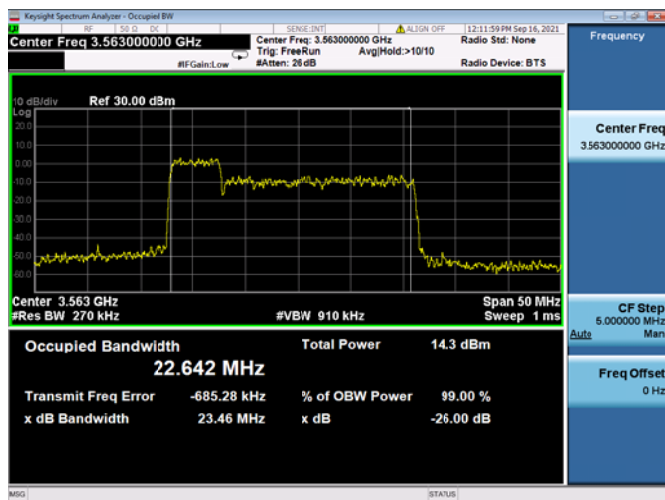


20M+10MHz	Low	QPSK	27.59	28.55
	Low	16QAM	27.56	28.57
	Low	64QAM	27.68	28.55
	Mid	QPSK	27.57	28.63
	Mid	16QAM	27.52	28.56
	Mid	64QAM	27.57	28.61
	High	QPSK	27.60	28.56
	High	16QAM	27.60	28.65
	High	64QAM	27.58	28.59
20M+15MHz	Low	QPSK	32.51	33.63
	Low	16QAM	32.55	33.65
	Low	64QAM	32.45	33.57
	Mid	QPSK	32.41	33.69
	Mid	16QAM	32.50	33.67
	Mid	64QAM	32.43	33.66
	High	QPSK	32.35	33.62
	High	16QAM	32.52	33.57
	High	64QAM	32.64	33.63
20M+20MHz	Low	QPSK	37.48	38.71
	Low	16QAM	37.25	38.69
	Low	64QAM	37.30	38.57
	Mid	QPSK	37.42	38.73
	Mid	16QAM	37.23	38.74
	Mid	64QAM	37.47	38.78
	High	QPSK	37.37	38.73
	High	16QAM	37.45	38.70
	High	64QAM	37.35	38.66

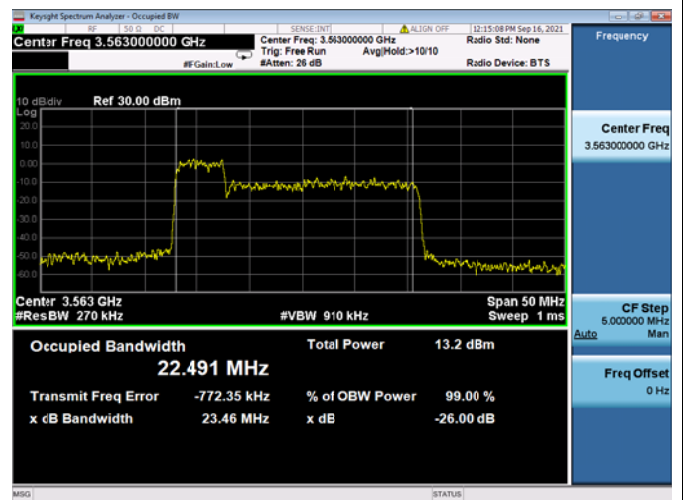


LTE Band 48C

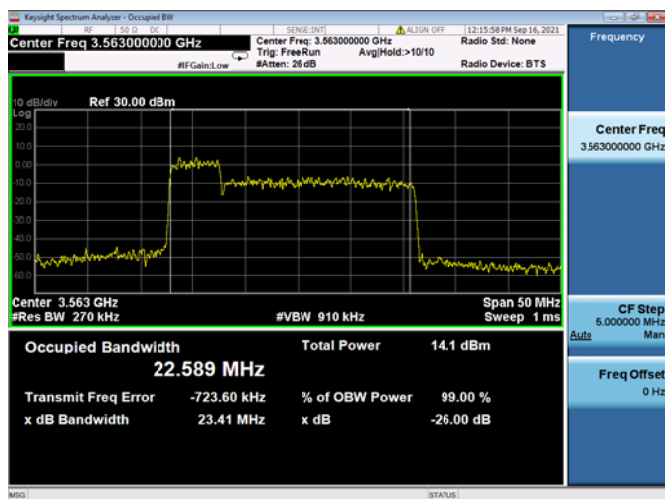
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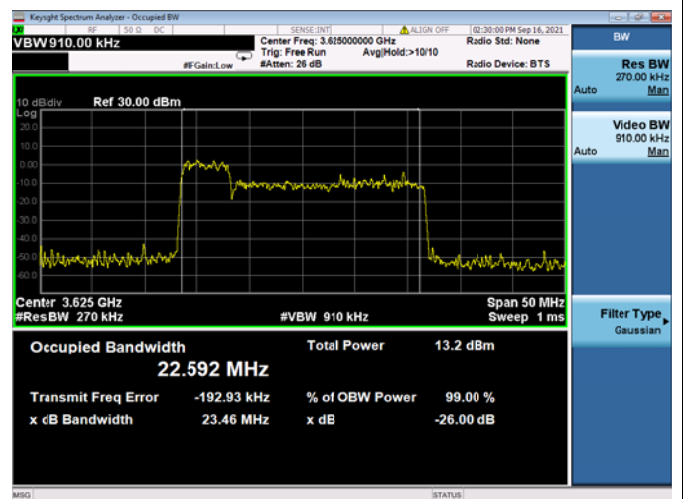
5MHz+20MHz / 16QAM / LCH



5MHz+20MHz / / L64QAMCH

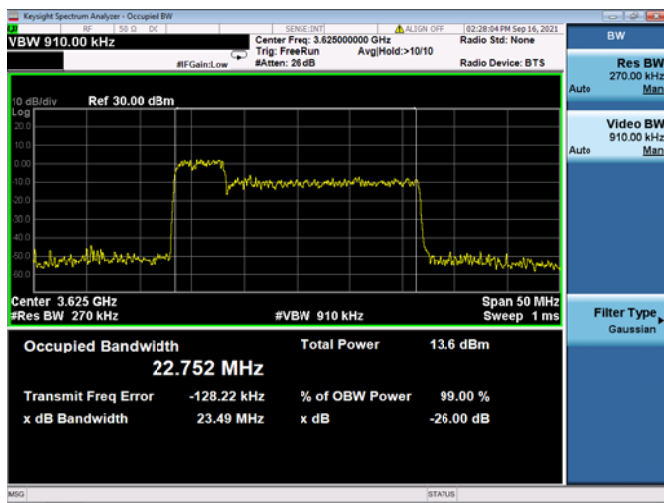


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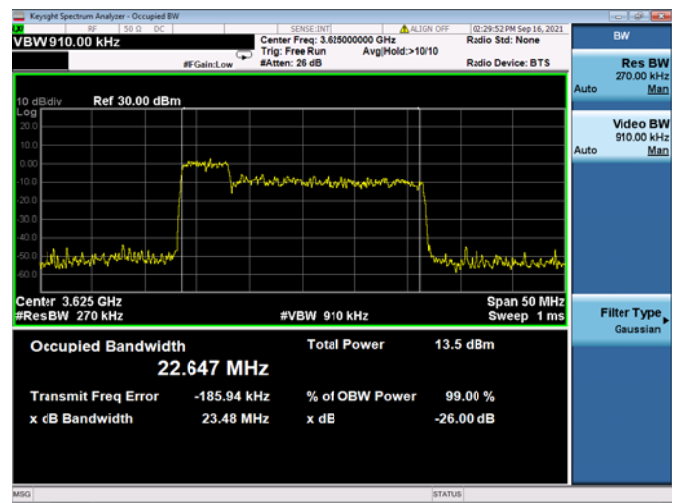




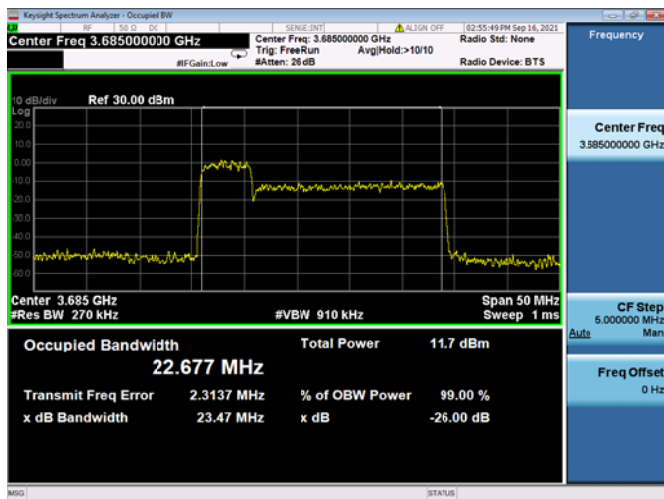
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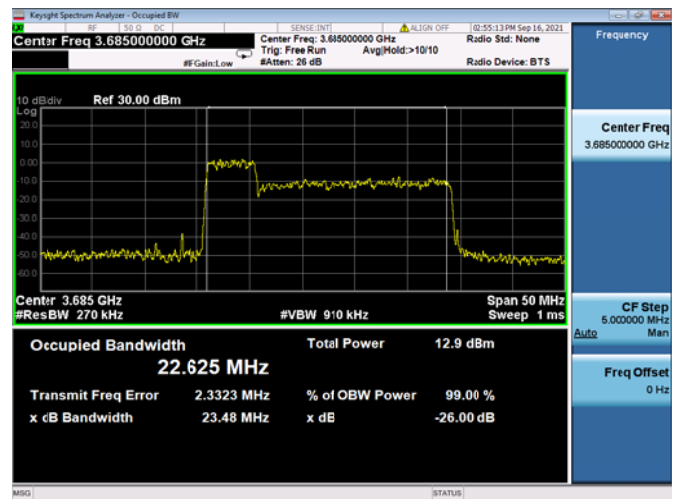
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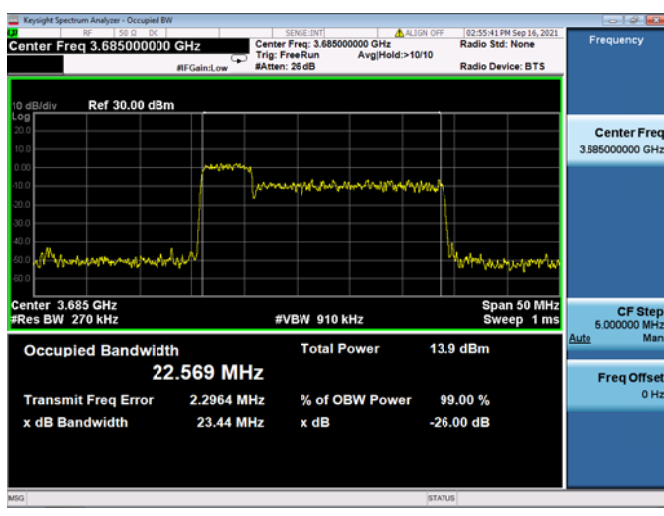
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5MHz+20MHz / 16QAM / HCH



5MHz+20MHz / 64QAM / HCH

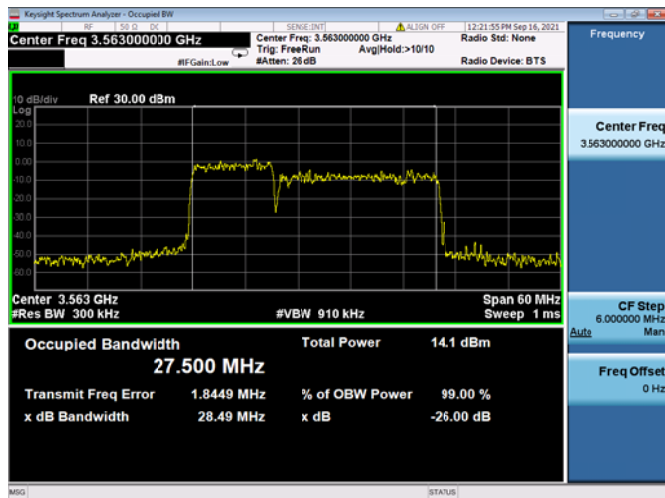


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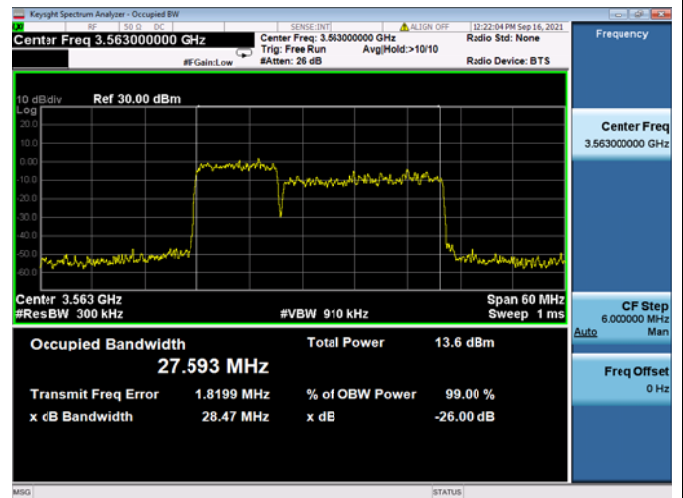


LTE Band 48C

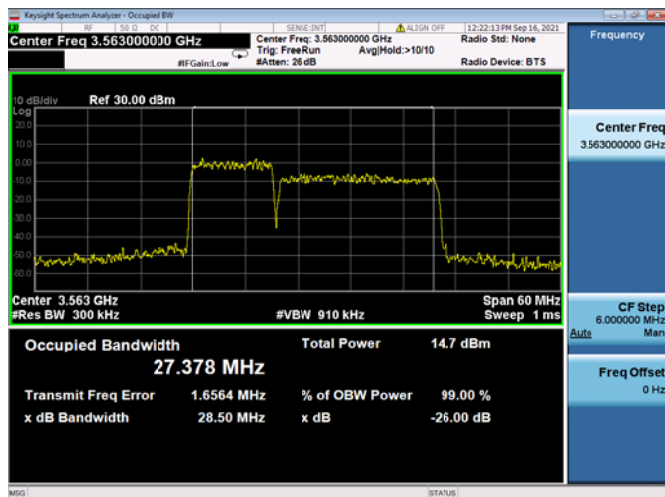
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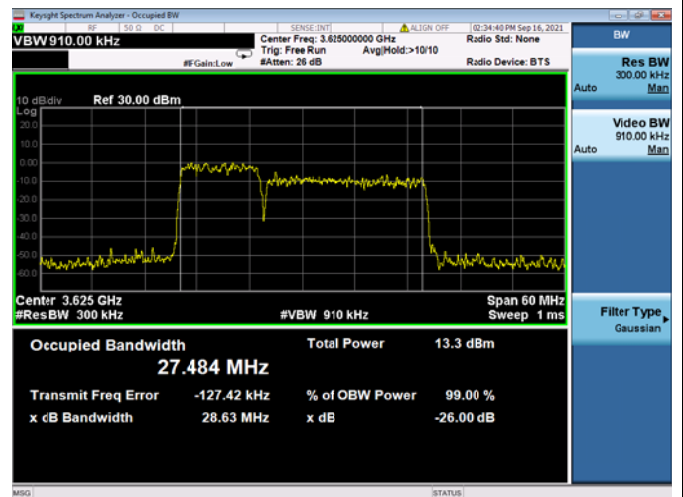
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10MHz+20MHz / 64QAM / LCH

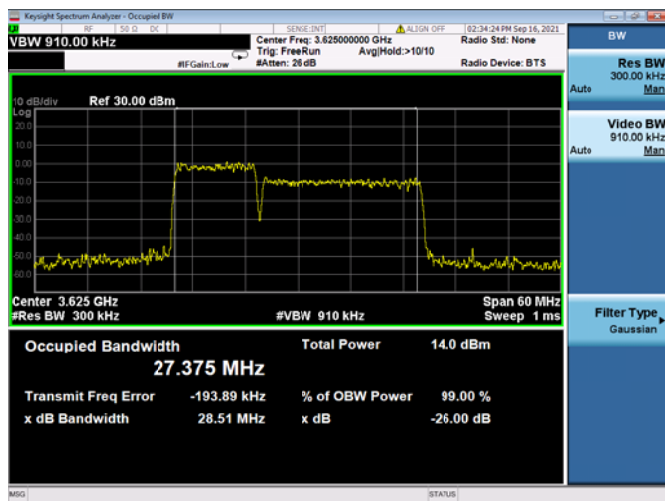


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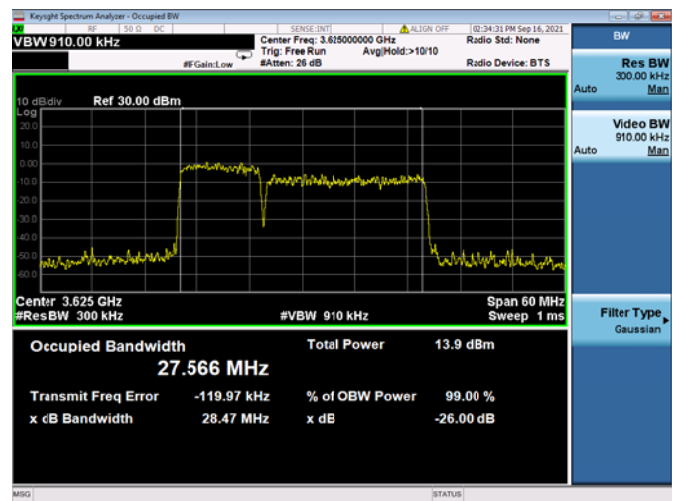




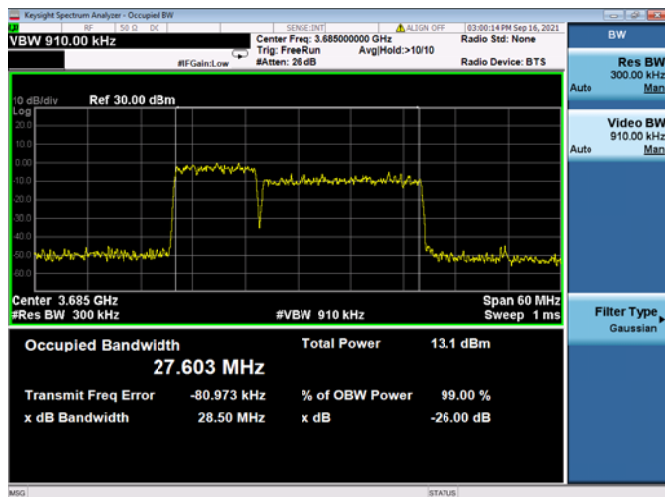
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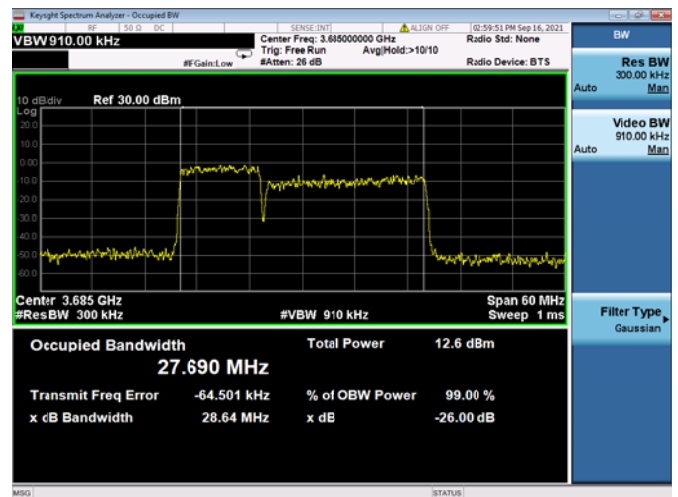
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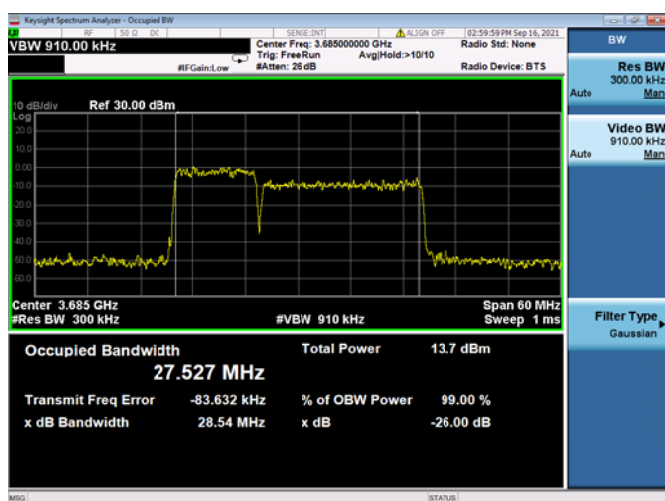
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10MHz+20MHz / 16QAM / HCH



10MHz+20MHz / 64QAM / HCH

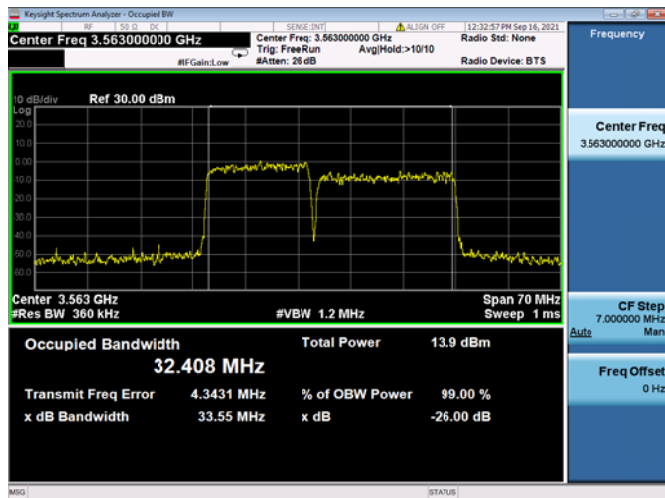


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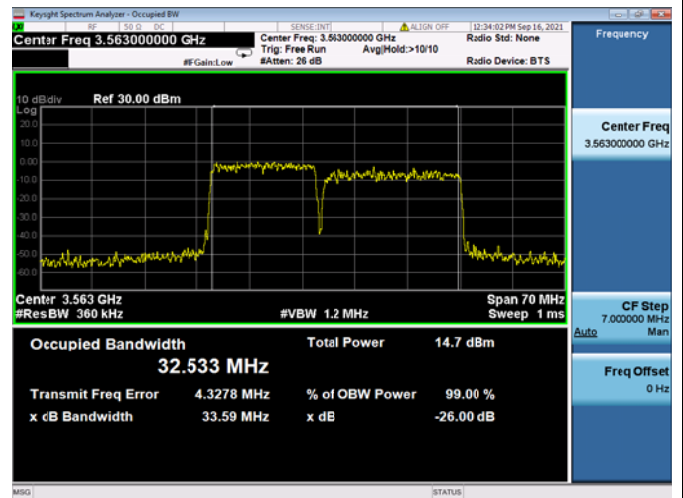


LTE Band 48C

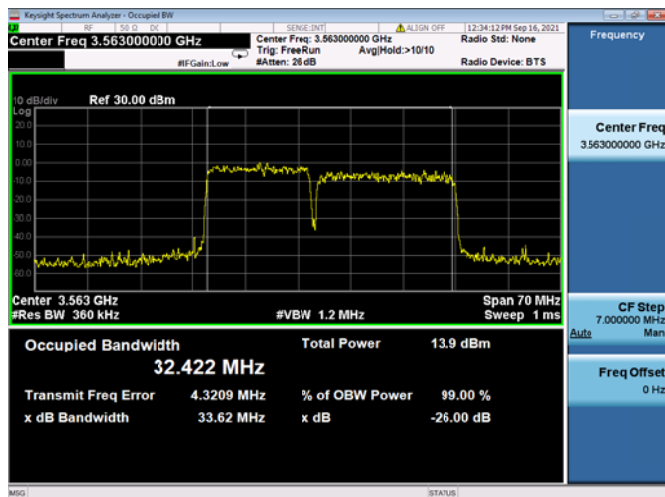
15MHz+20MHz / QPSK / LCH



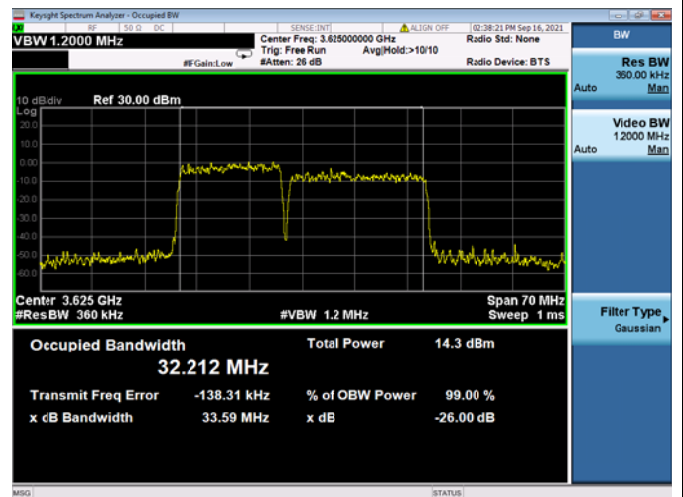
15MHz+20MHz / 16QAM / LCH



15MHz+20MHz / 64QAM / LCH

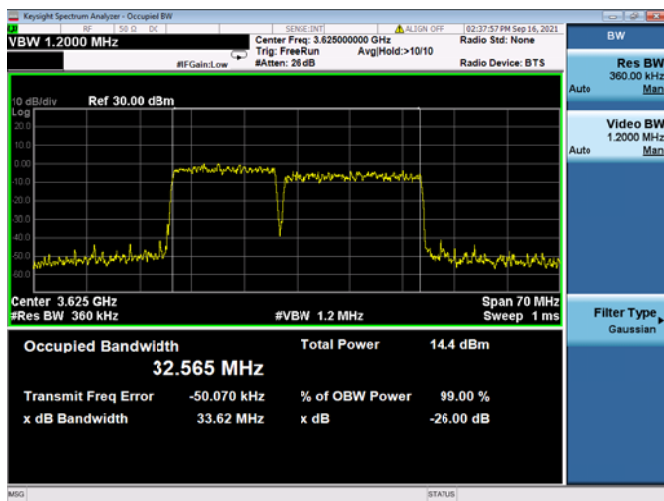


15MHz+20MHz / QPSK / MCH

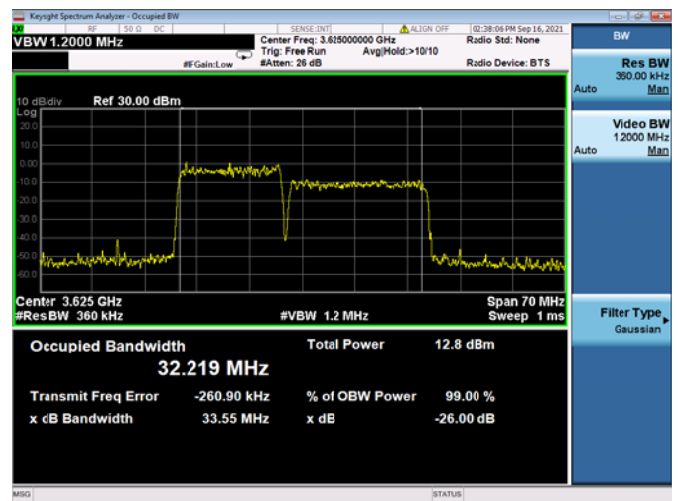




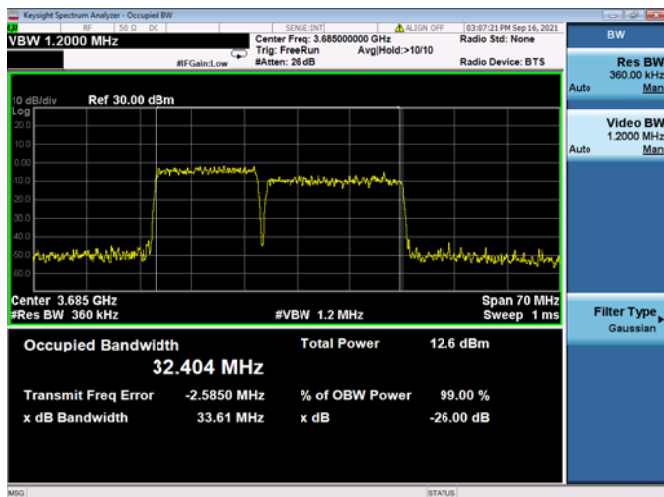
15MHz+20MHz / 16QAM / MCH



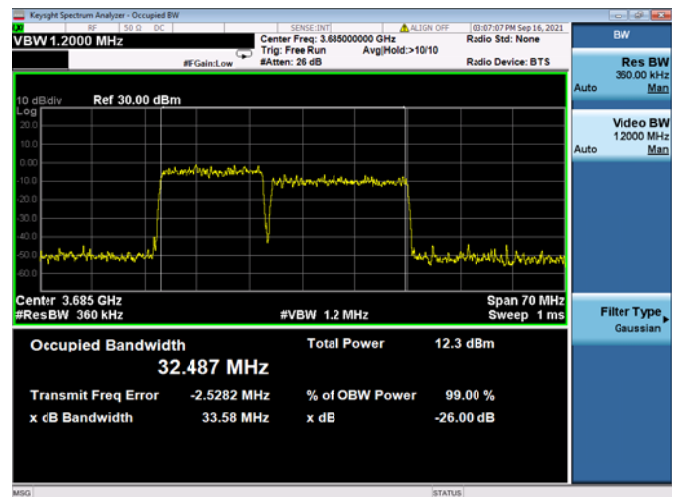
15MHz+20MHz / 64QAM / MCH



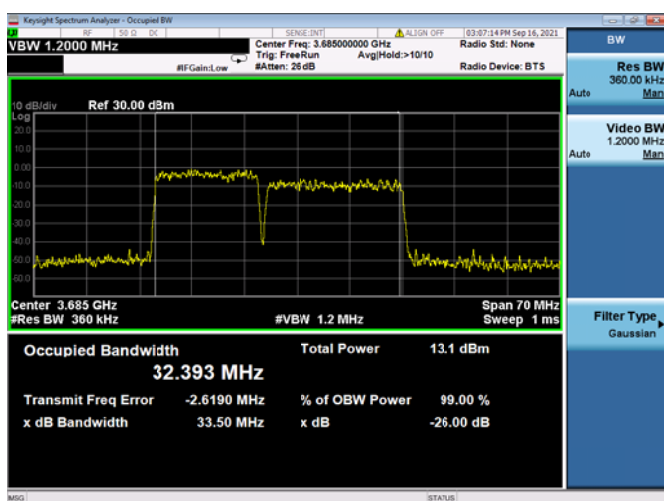
15MHz+20MHz / QPSK / HCH



15MHz+20MHz / 16QAM / HCH



15MHz+20MHz / 64QAM / HCH

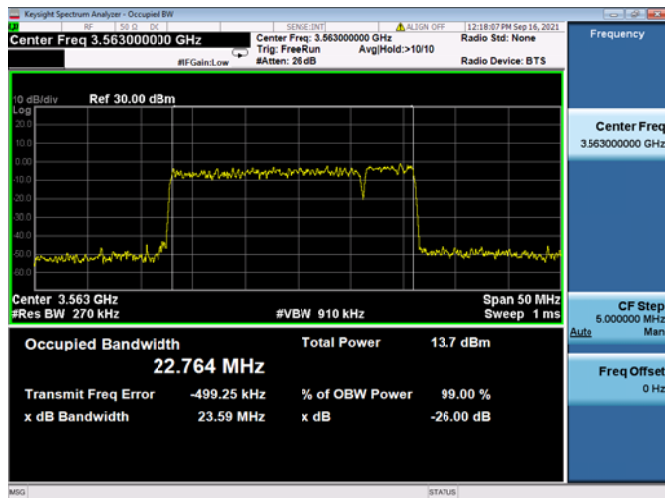


N/A

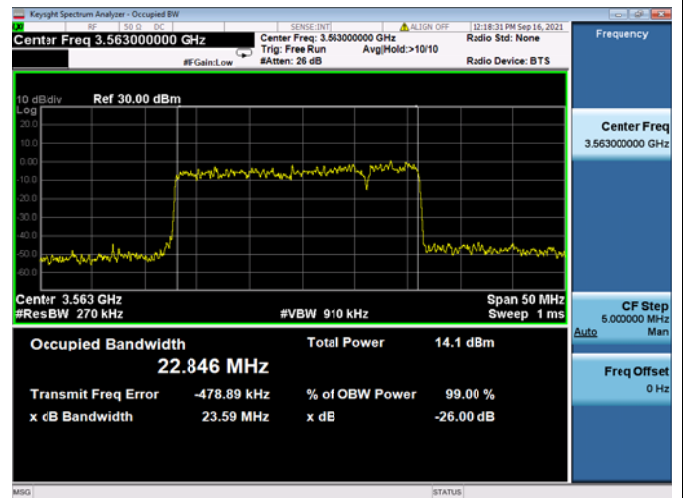


LTE Band 48C

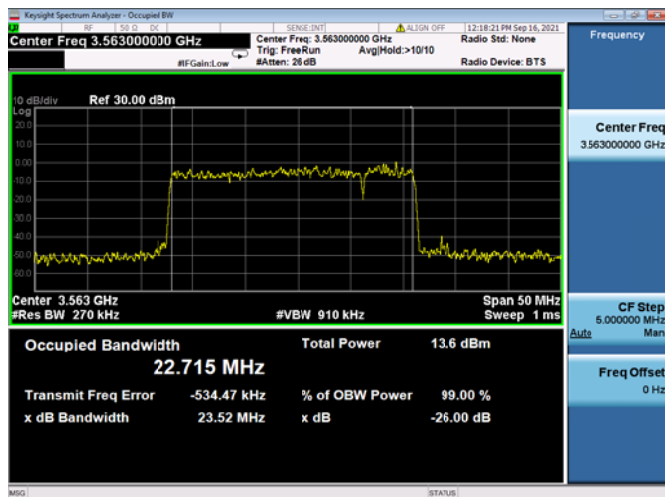
20MHz+5MHz /QPSK / LCH



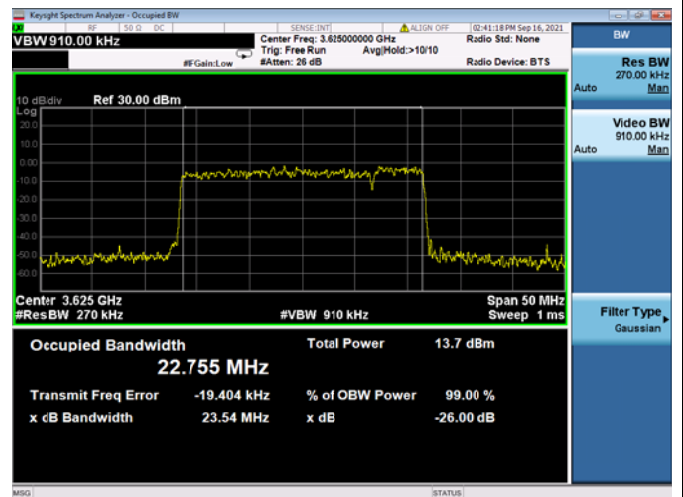
20MHz+5MHz / 16QAM / LCH



20MHz+5MHz /64QAM / LCH

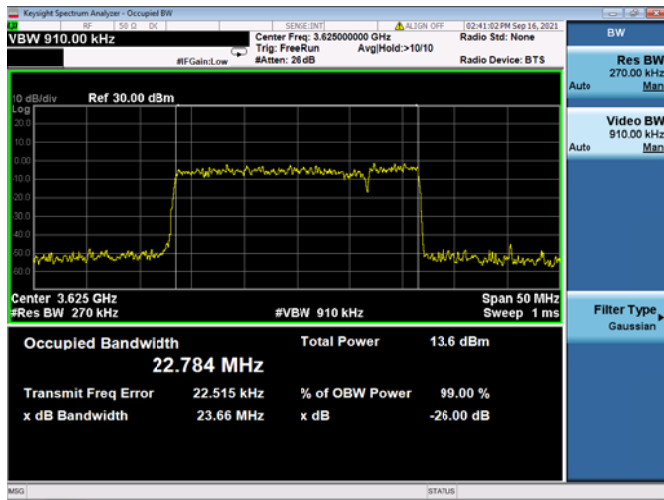


20MHz+5MHz / QPSK / MCH

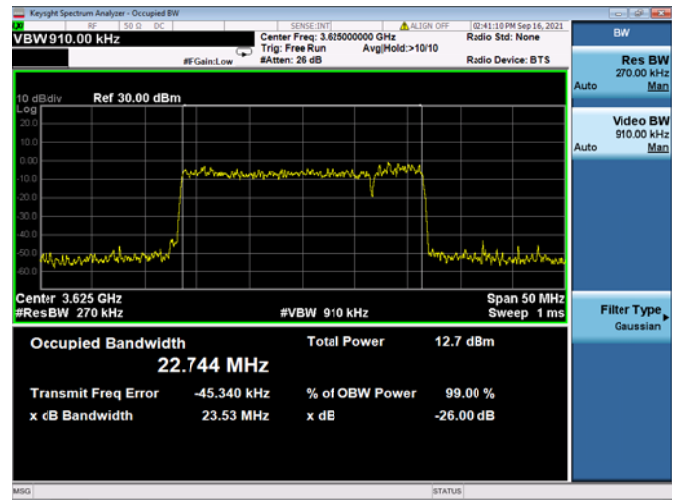




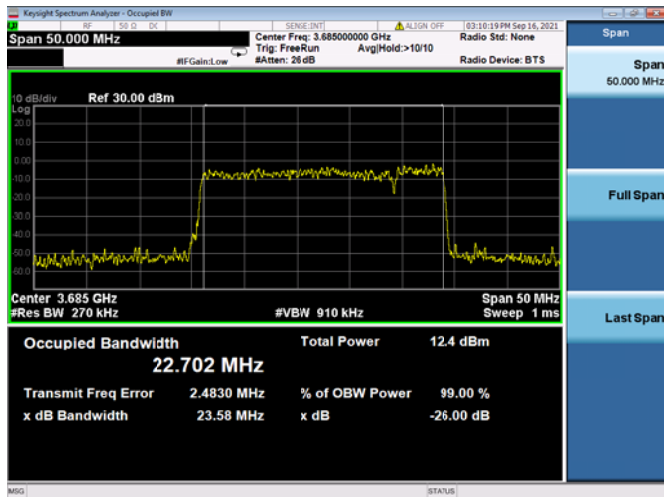
20MHz+5MHz / 16QAM / MCH



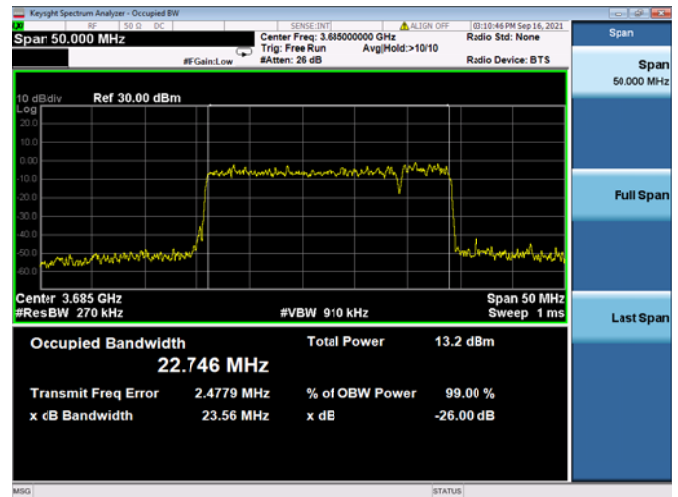
20MHz+5MHz / 64QAM / MCH



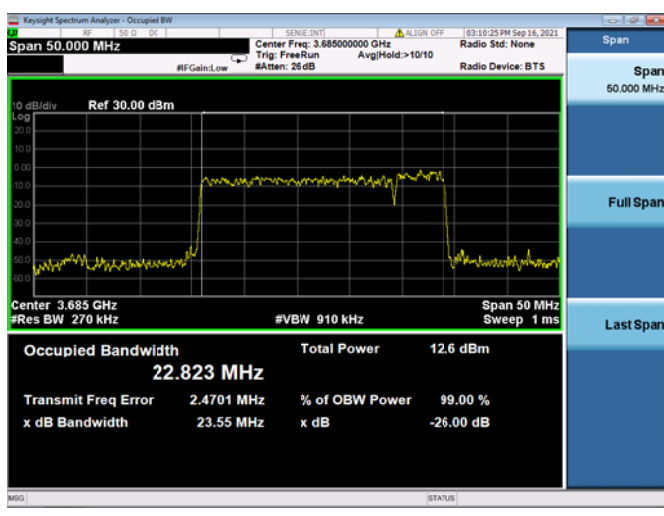
20MHz+5MHz / QPSK / HCH



20MHz+5MHz / 16QAM / HCH



20MHz+5MHz / 64QAM / HCH

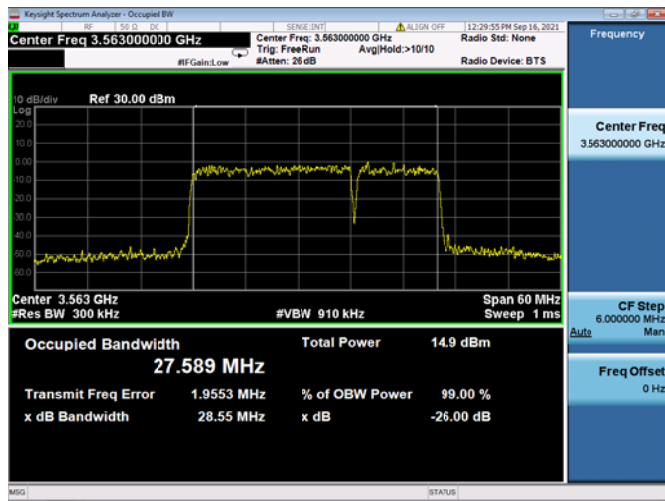


N/A

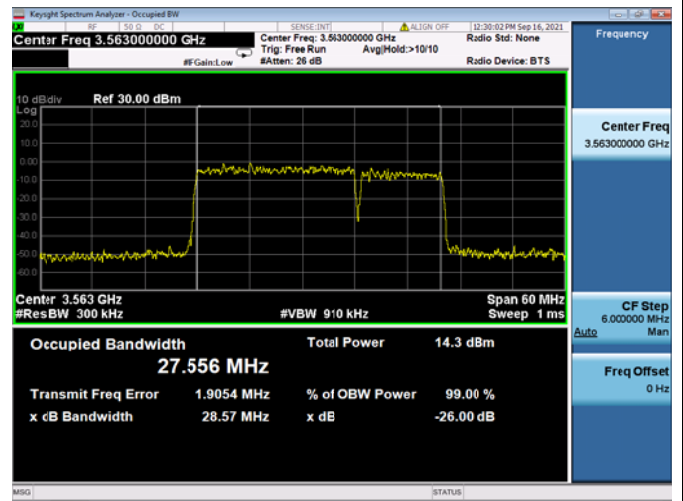


LTE Band 48C

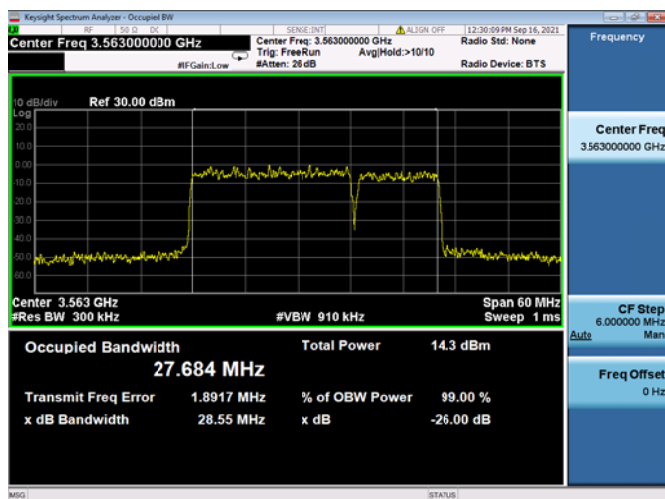
20MHz+10MHz /QPSK / LCH



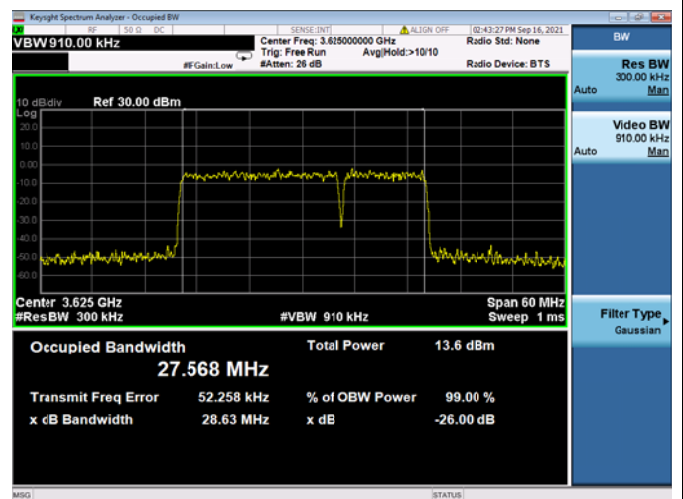
20MHz+10MHz / 16QAM / LCH



20MHz+10MHz / 64QAM / LCH

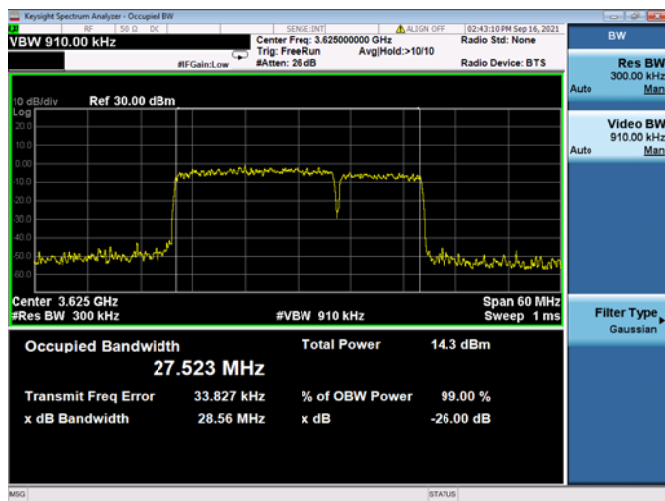


20MHz+10MHz / QPSK / MCH

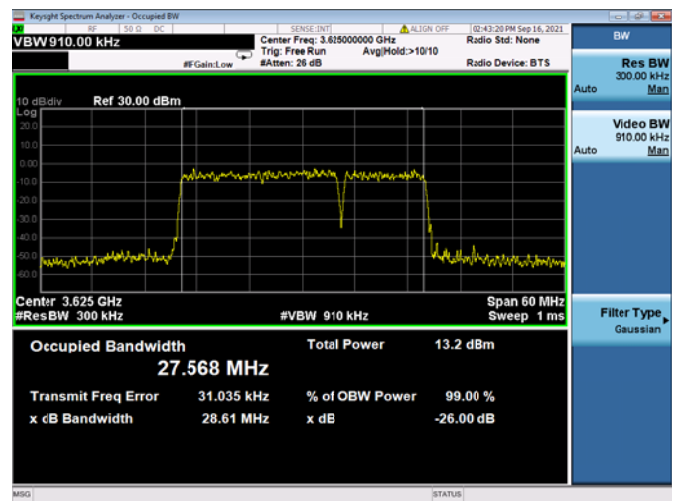




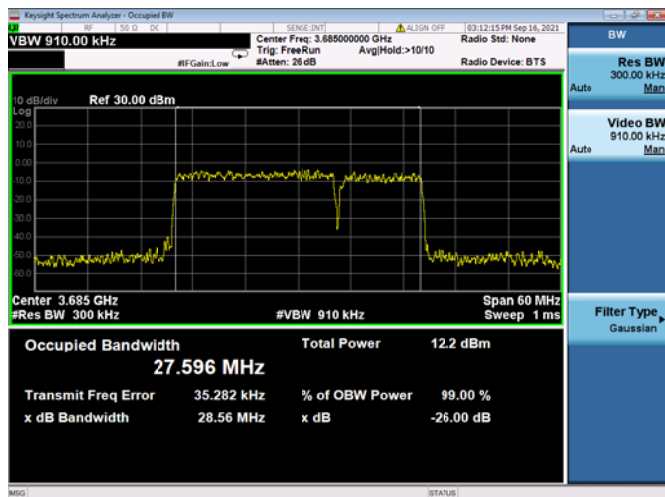
20MHz+10MHz / 16QAM / MCH



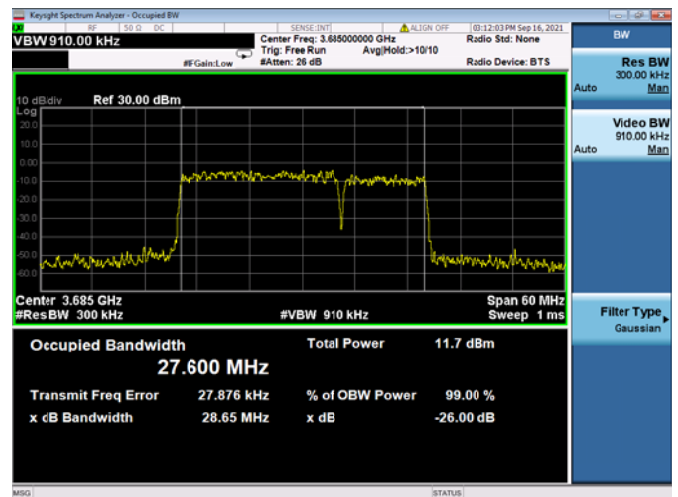
20MHz+10MHz / 64QAM / MCH



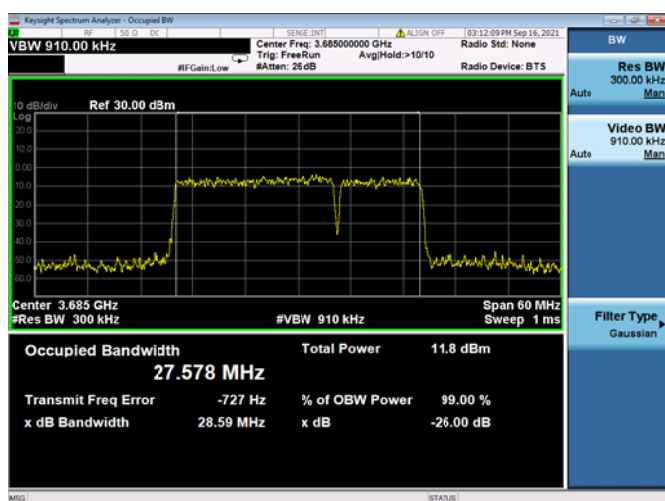
20MHz+10MHz / QPSK / HCH



20MHz+10MHz / 16QAM / HCH



20MHz+10MHz / 64QAM / HCH

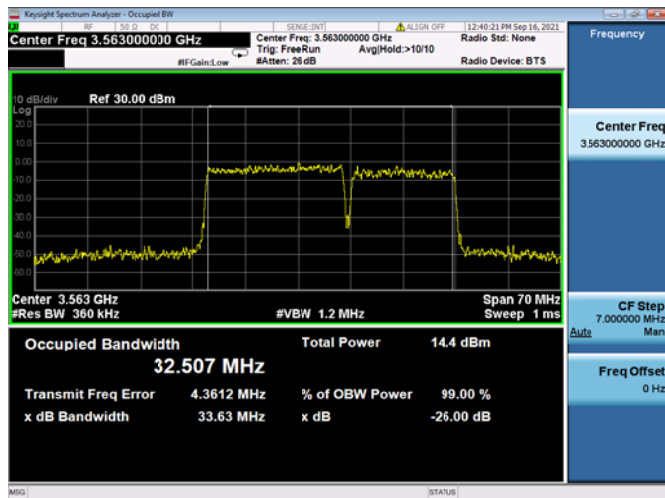


N/A

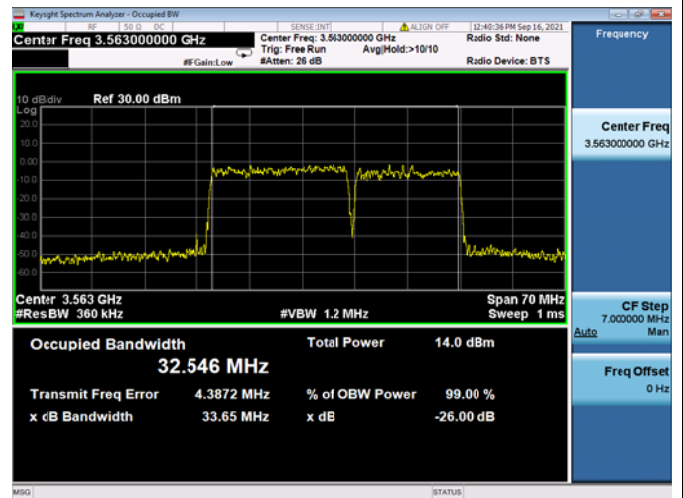


LTE Band 48C

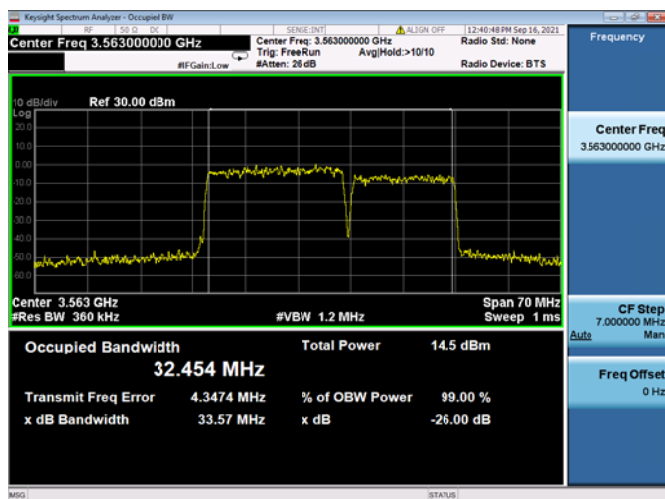
20MHz+15MHz /QPSK / LCH



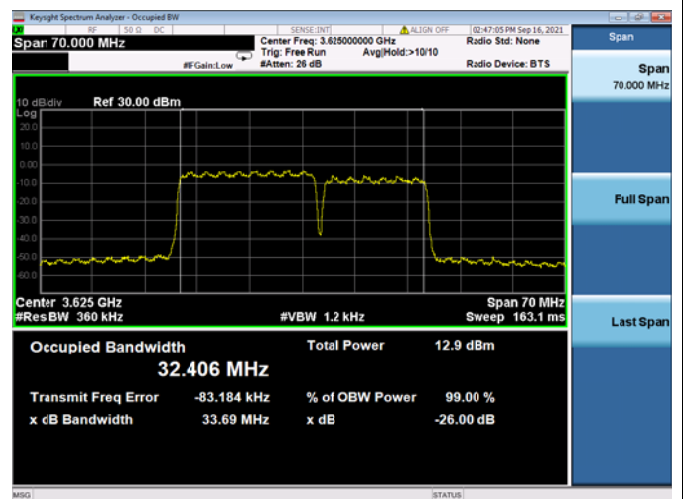
20MHz+15MHz / 16QAM / LCH



20MHz+15MHz / 64QAM / LCH

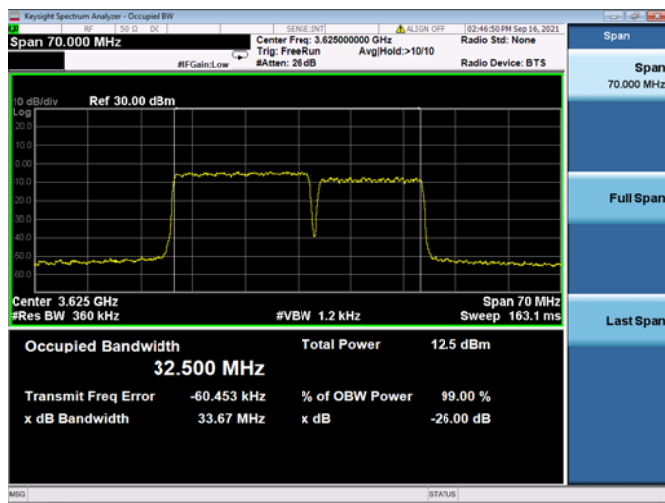


20MHz+15MHz / QPSK / MCH

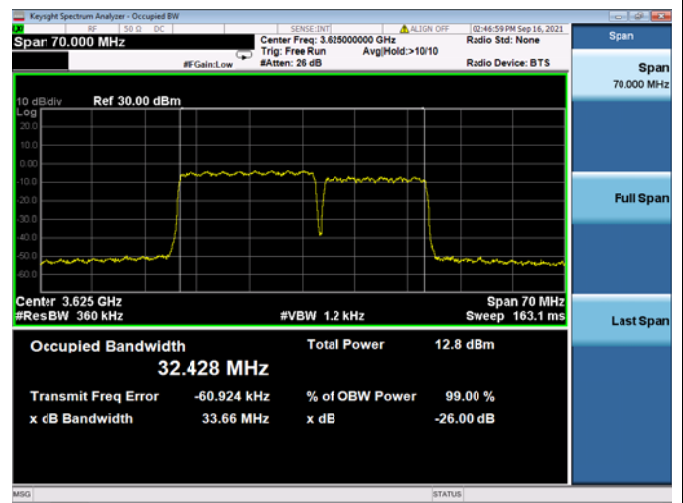




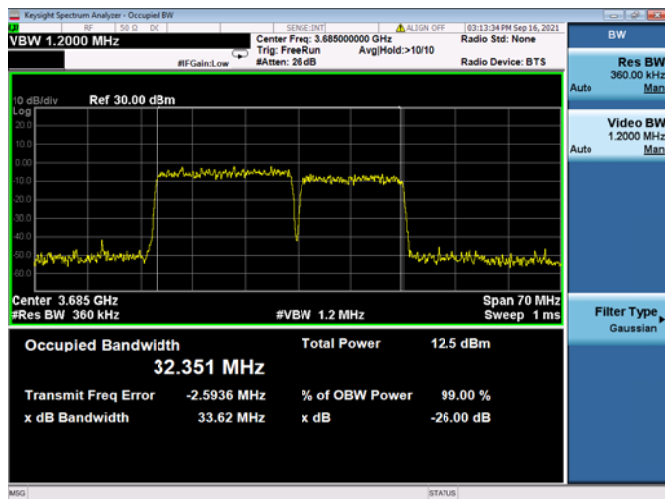
20MHz+15MHz / 16QAM / MCH



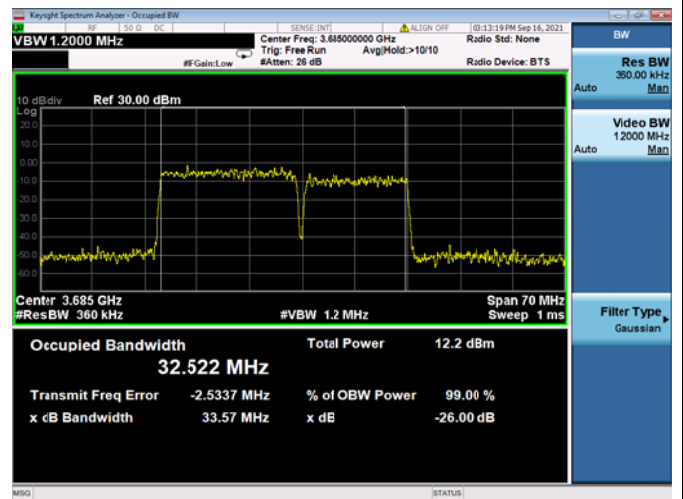
20MHz+15MHz / 64QAM / MCH



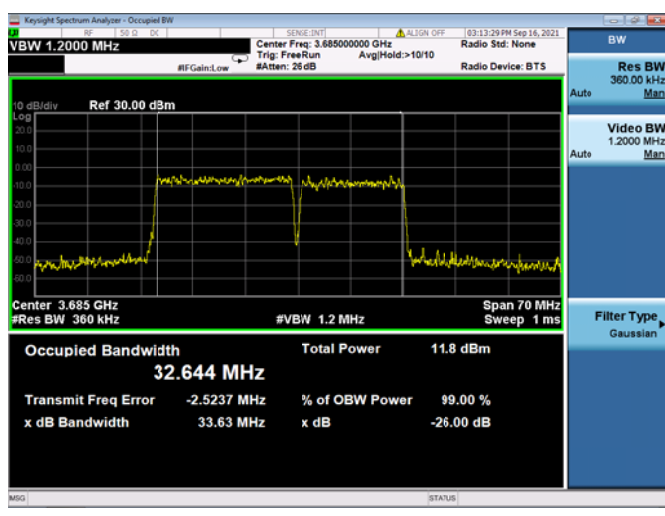
20MHz+15MHz / QPSK / HCH



20MHz+15MHz / 16QAM / HCH



20MHz+15MHz / 64QAM / HCH

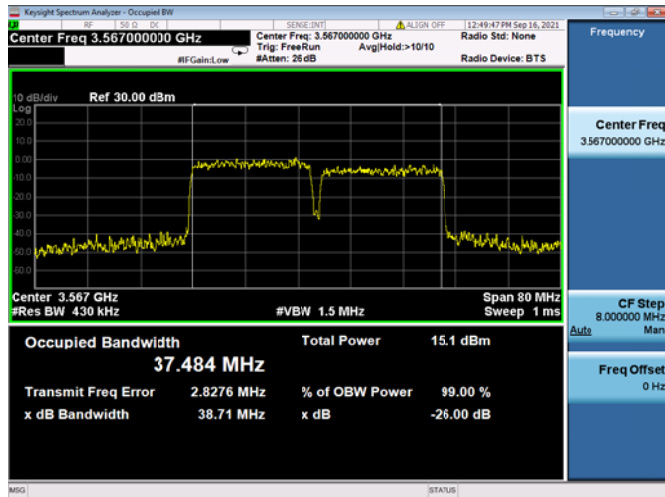


N/A

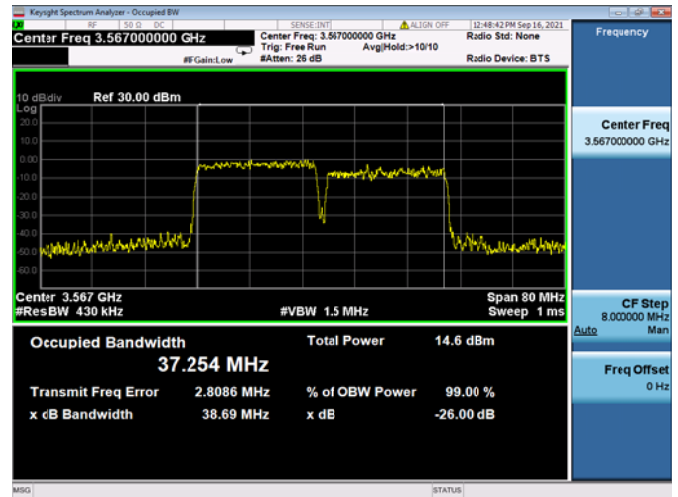


LTE Band 48C

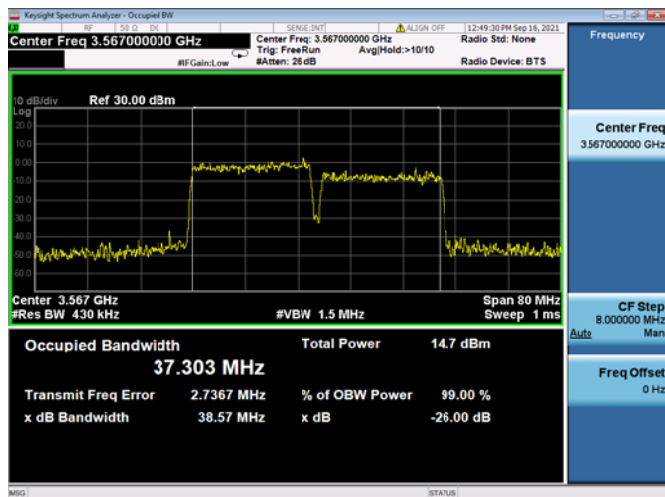
20MHz+20MHz / QPSK / LCH



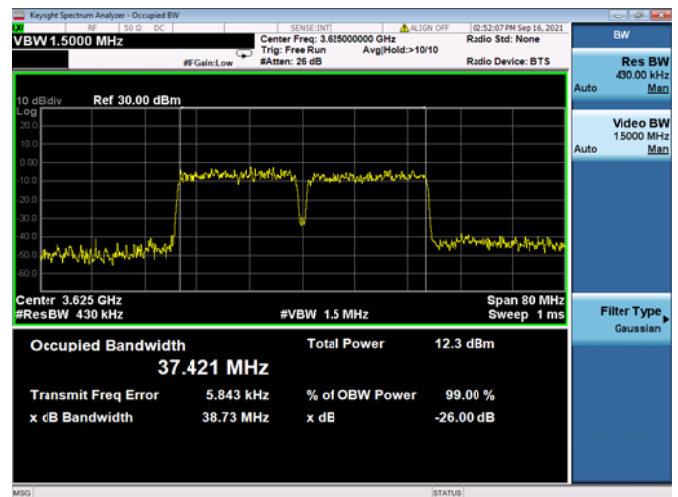
20MHz+20MHz / 16QAM / LCH



20MHz+20MHz / 64QAM / LCH

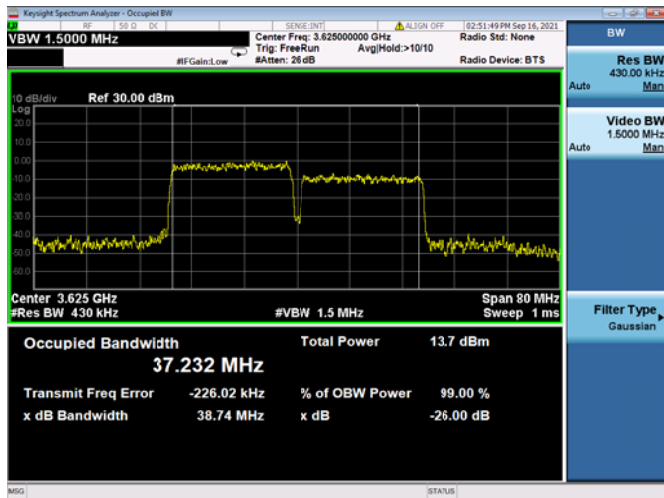


20MHz+20MHz / QPSK / MCH

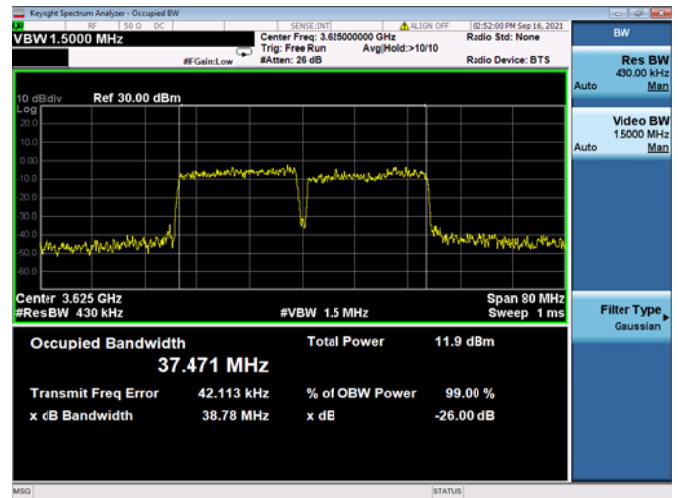




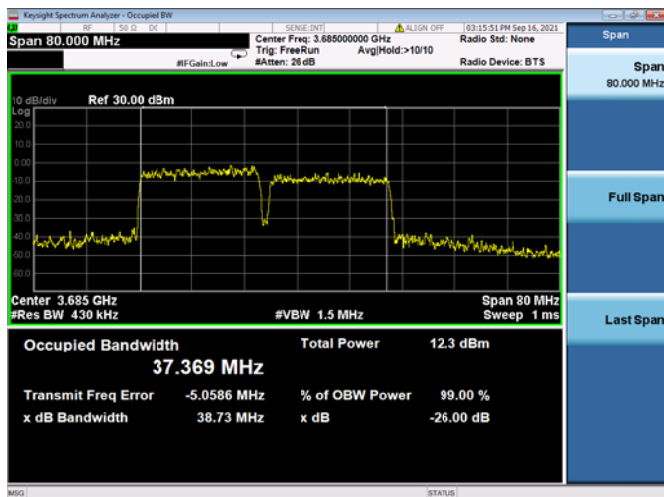
20MHz+20MHz / 16QAM / MCH



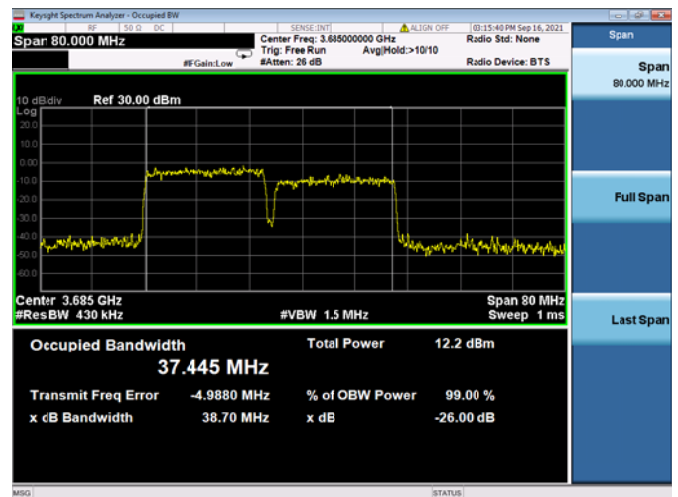
20MHz+20MHz / 64QAM / MCH



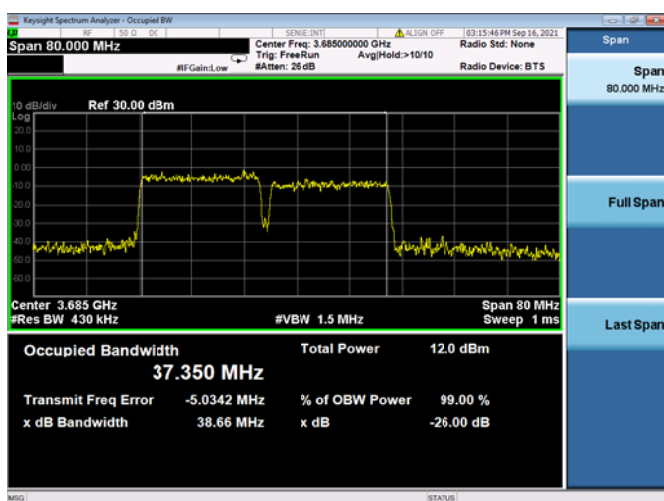
20MHz+20MHz / QPSK / HCH



20MHz+20MHz / 16QAM / HCH



20MHz+20MHz / 64QAM/HCH



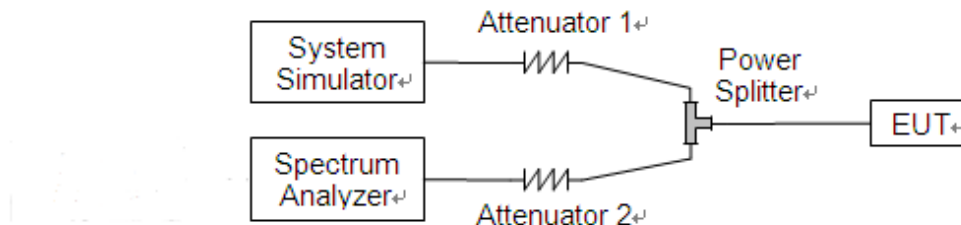
N/A

2.3. Conducted Spurious Emissions

2.3.1. Requirement

According to FCC section 2.1051, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43+10*\log(P)$ dB. This calculated to be -13dBm.

2.3.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.3.3. Test procedure

KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.

2.3.4. Test Result

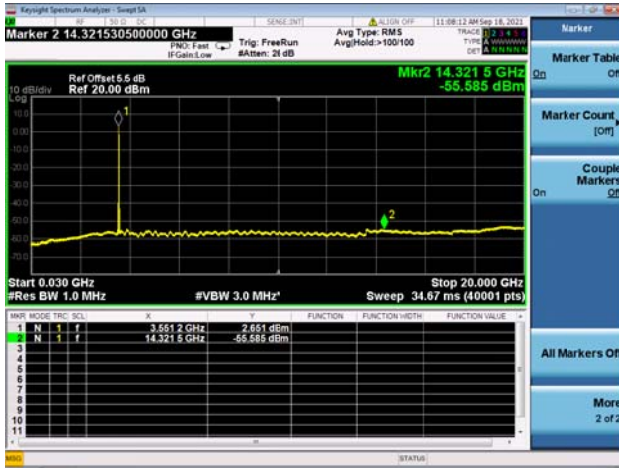
Note: The test results of Band 48C as below, the others please refer to Report No.: SZ21010262W03.



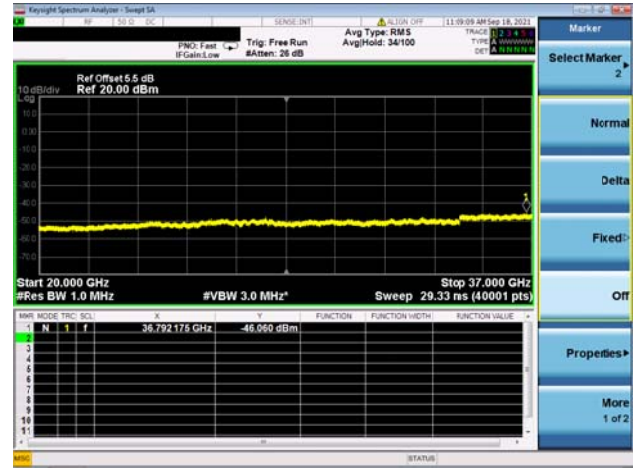
LTE Band 48C CSE

Channel Bandwidth: 5MHz+20MHz

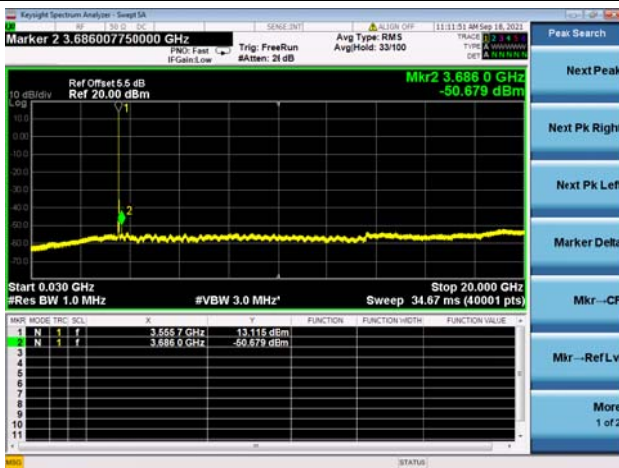
LOW CH/QPSK/1RB0 and 1RB99



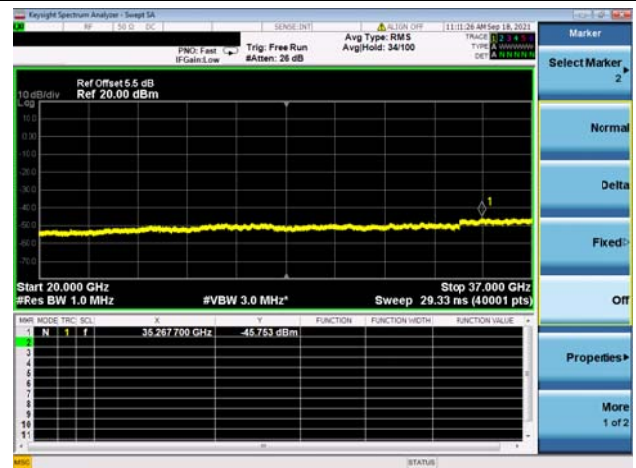
LOW CH/QPSK/1RB0 and 1RB99



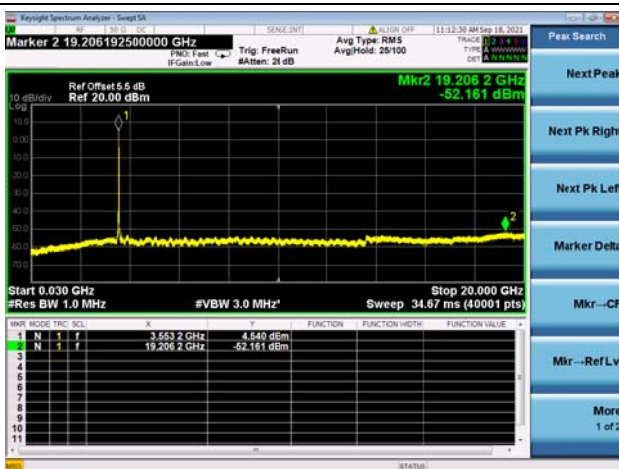
LOW CH/QPSK/1RB24 and 1RB0



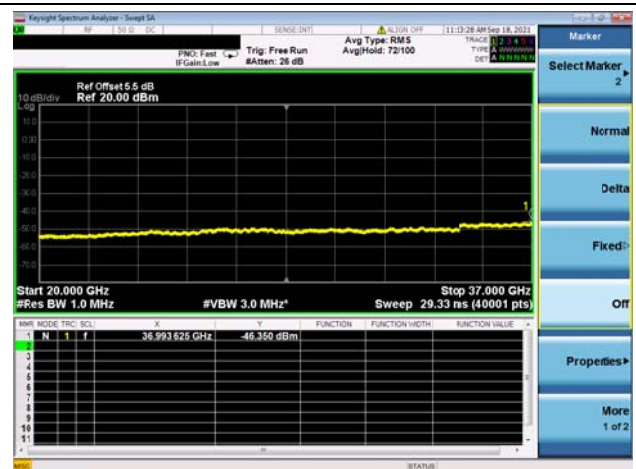
LOW CH/QPSK/1RB24 and 1RB0



LOW CH/QPSK/FULL RB

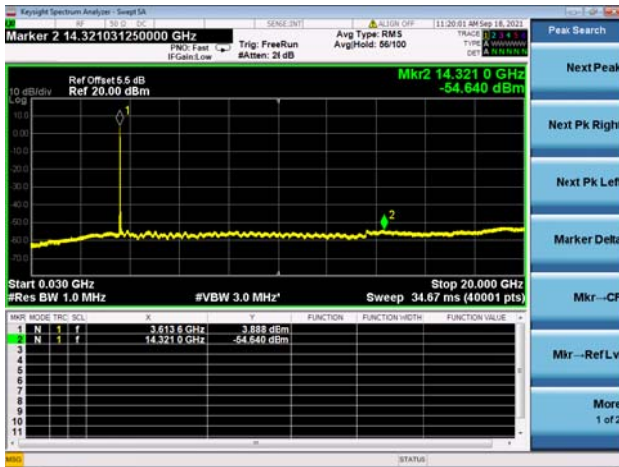


LOW CH/QPSK/FULL RB

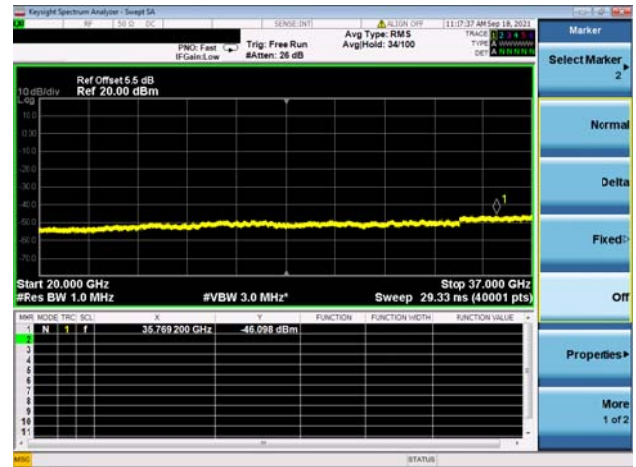




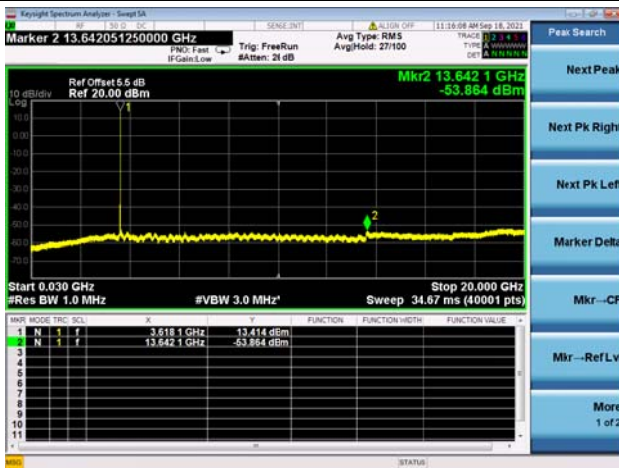
Mid CH/QPSK/1RB0 and 1RB99



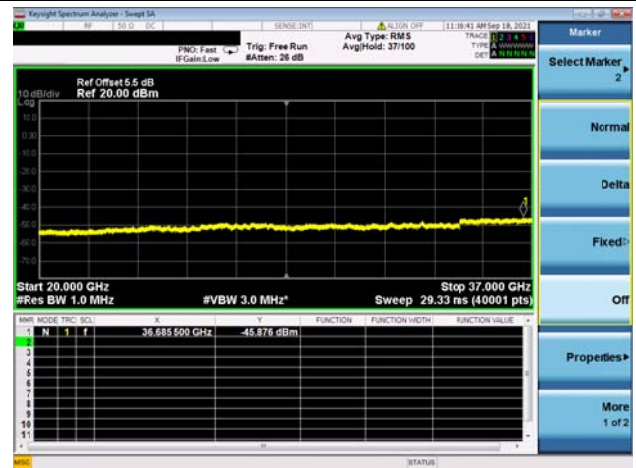
Mid CH/QPSK/1RB0 and 1RB99



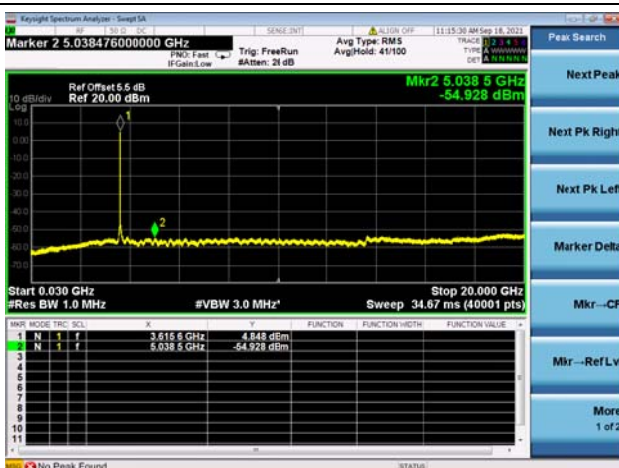
Mid CH/QPSK/1RB24 and 1RB0



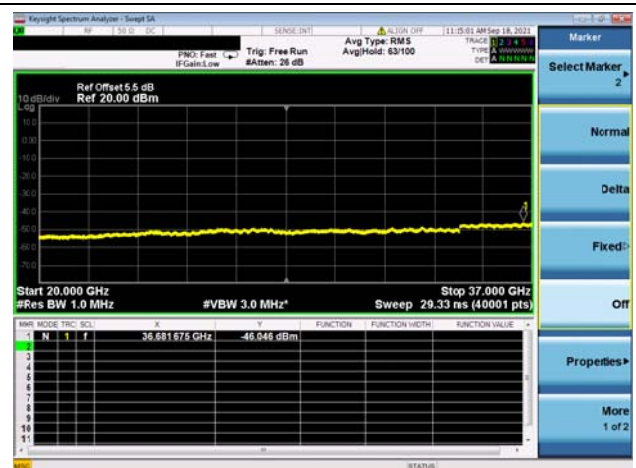
Mid CH/QPSK/1RB24 and 1RB0



Mid CH/QPSK/FULL RB

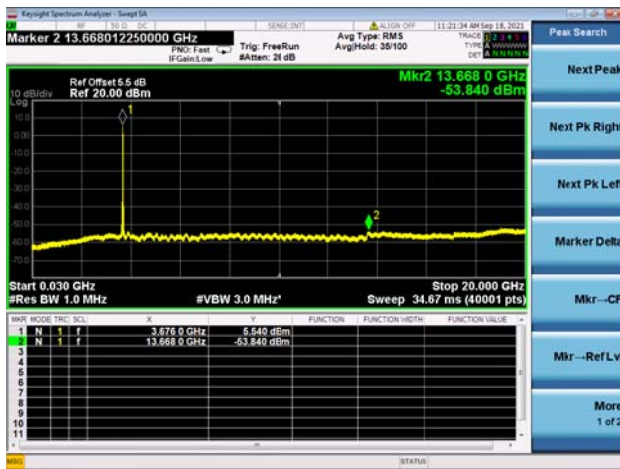


Mid CH/QPSK/FULL RB

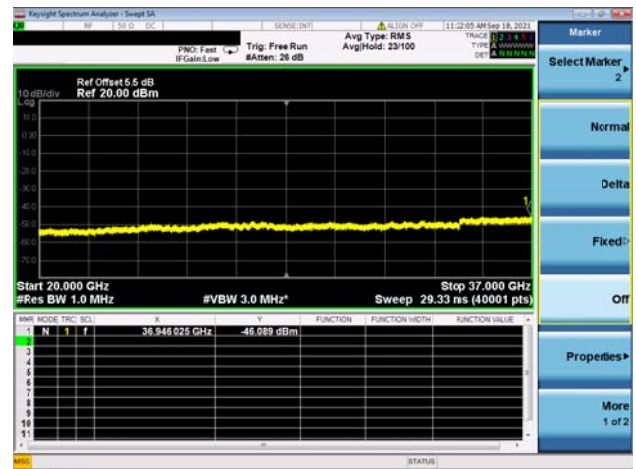




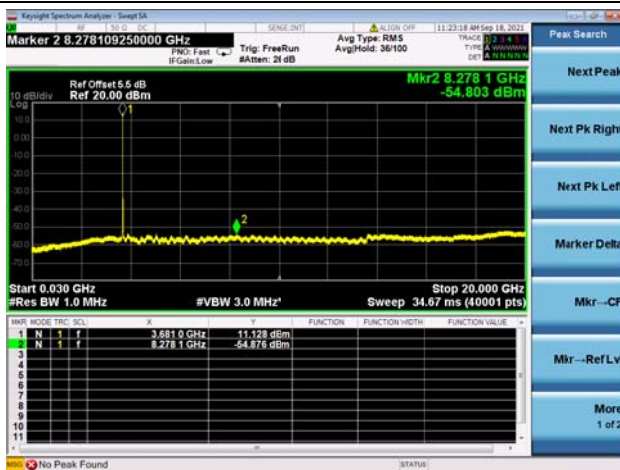
High CH/QPSK/1RB0 and 1RB99



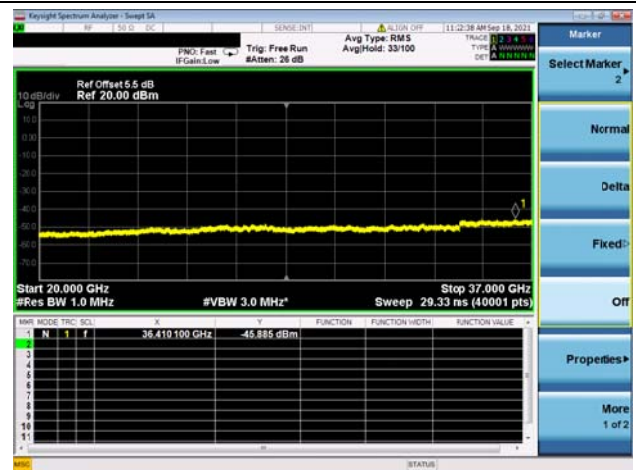
High CH/QPSK/1RB0 and 1RB99



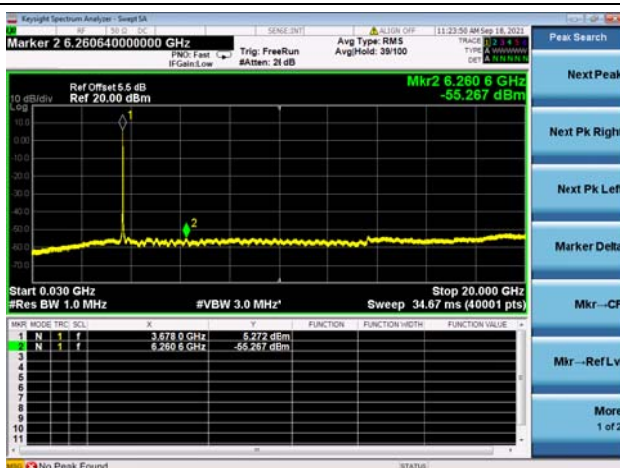
High CH/QPSK/1RB24 and 1RB0



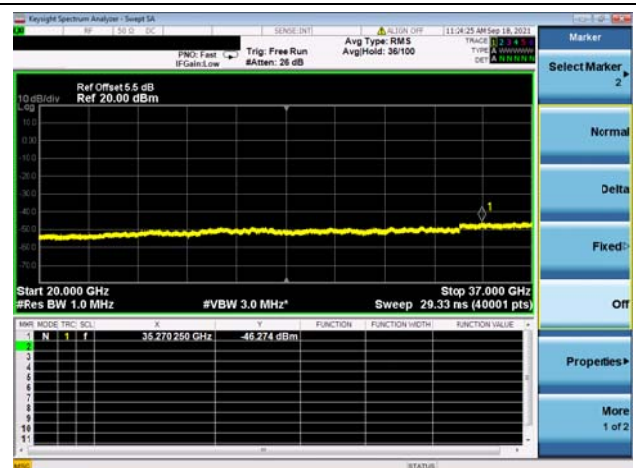
High CH/QPSK/1RB24 and 1RB0



High CH/QPSK/FULL RB



High CH/QPSK/FULL RB

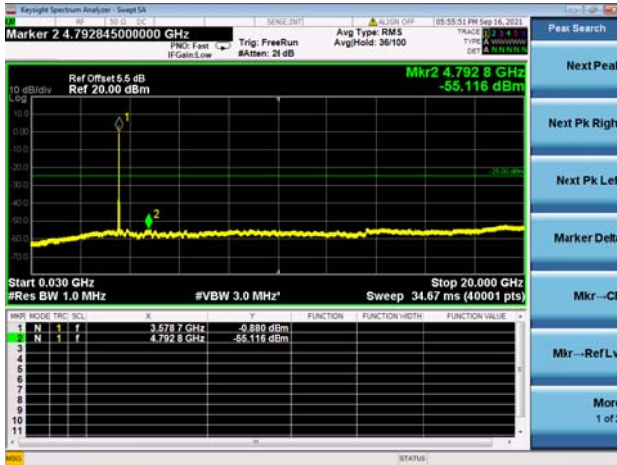




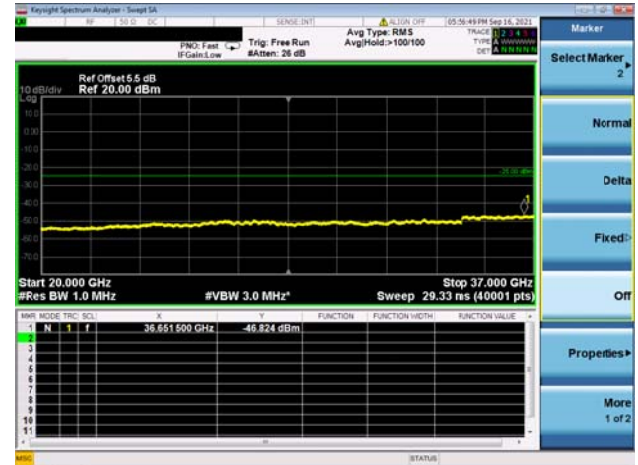
LTE Band 48C CSE

Channel Bandwidth: 10MHz+20MHz

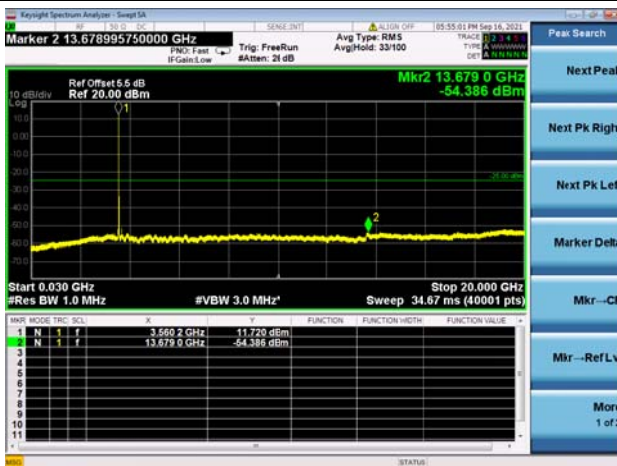
LOW CH/QPSK/1RB0 and 1RB99



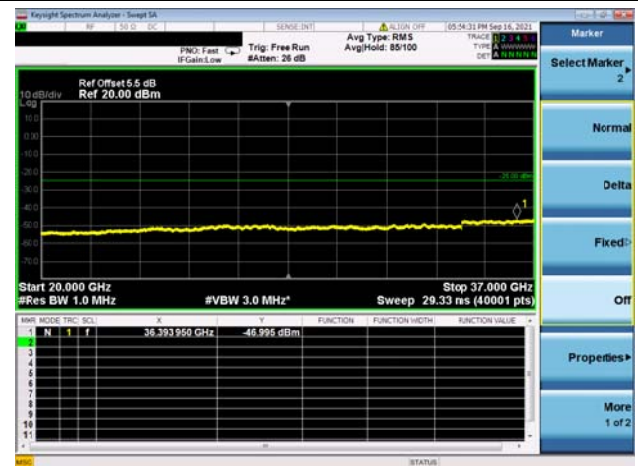
LOW CH/QPSK/1RB0 and 1RB99



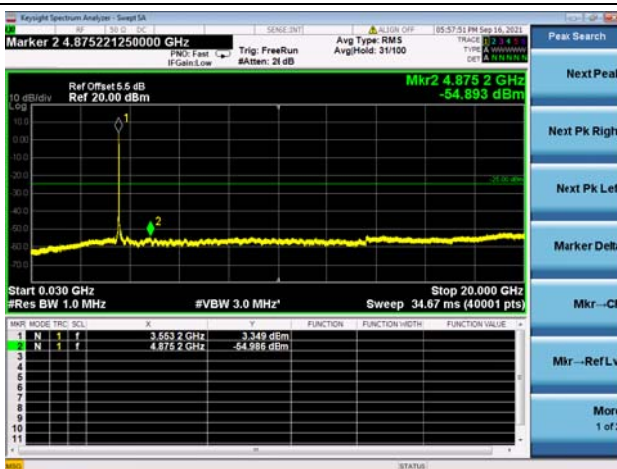
LOW CH/QPSK/1RB49 and 1RB0



LOW CH/QPSK/1RB49 and 1RB0



LOW CH/QPSK/FULL RB



LOW CH/QPSK/FULL RB

