

Test Report

Product Name : Mobile Computer
Model No. : RS36
FCC ID : Q3N-RS36
IC : 5121A-RS36

Applicant (for FCC) : CipherLab Co., Ltd.

Applicant (for IC) : CIPHERLAB CO. LTD.

Address : 12F, 333, Dunhua S.Rd., Sec.2, Taipei, Taiwan

Date of Receipt : 2022/10/13

Issued Date : 2023/03/28

Report No. : 22A0299R-RFUSV23S-A

Report Version : V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF or any agency of the government.

The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.

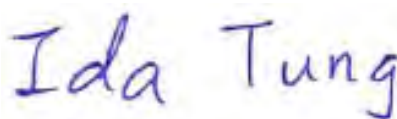
Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Test Report



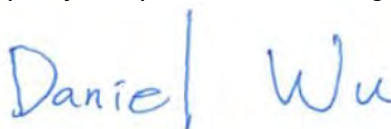
Product Name : Mobile Computer
Applicant (for FCC) : CipherLab Co., Ltd.
Applicant (for IC) : CIPHERLAB CO. LTD.
Address : 12F, 333, Dunhua S.Rd., Sec.2, Taipei, Taiwan
Manufacturer : CIPHERLAB CO. LTD.
Trade Name : CIPHERLAB
Model No. : RS36
EUT Rated Voltage : DC 5V (adapter or host equipment)
DC 3.85V for battery
EUT Test Voltage : DC 3.85V
Measurement Standard : FCC CFR Title 47 Part 22 ; Part 24 ; Part 27
RSS-130 Issue 2, RSS-132 Issue 4, RSS-133 Issue 6+A1,
RSS-139 Issue 4, RSS-199 Issue 3
Measurement Reference : FCC CFR Title 47 Part 2, TIA/EIA 603-E 2016,
KDB 971168 D01V03R01, ANSI C63.26 2015,
RSS-GEN Issue 5+A2
Test Result : Complied

Documented By :



(Project Specialist / Ida Tung)

Tested By :



(Engineer / Daniel Wu)

Approved By :



(Manager / Tim Sung)

TABLE OF CONTENTS

1.	General Information	5
1.1	EUT Description	5
1.2	Antenna List	6
1.3	Operational Description	7
1.4	Configuration of tested System	8
1.5	EUT Setup Procedures	8
1.6	Test Facility	9
2.	Technical Test	10
2.1	Summary of test result	10
2.2	List of test Equipment.....	12
2.3	Measurement Uncertainty	13
3.	Conducted Output Power Measurment.....	14
3.1	Test Specification	14
3.2	Test Setup	14
3.3	Limits	14
3.4	Test Procedure.....	14
3.5	Test Result of Maximum Power Output.....	15
3.6	Maximum Conducted Power and ERP/EIRP Power	36
4.	Occupied Bandwidth	40
4.1	Test Secification	40
4.2	Test Setup	40
4.3	Test Procedure.....	40
4.4	Test Result of Occupied Bandwidth	41
5.	Spurious Emission At Antenna Terminals (+/-1MHz).....	90
5.1	Test Specification	90
5.2	Setup	90
5.3	Limits	90
5.4	Test Procedure.....	91
5.5	Test Result of Spurious Emission At Antenna Terminals (+/-1MHz).....	92
6.	Spurious Emission.....	115
6.1	Test Specification	115
6.2	Test Setup	115
6.3	Limits	116
6.4	Test Procedure.....	116
6.5	Test Result of Spurious Emission	118
7.	Frequency Stability Under Temperature & Voltage Variations	168
7.1	Test Specification	168
7.2	Test Setup	168
7.3	Limits	168
7.4	Test Procedure.....	168
7.5	Test Result of Frequency Stability Under Temperature Variations	169
8.	Peak to Average Ratio	177
8.1	Test Specification	177
8.2	Test Setup	177
8.3	Limits	177
8.4	Test Procedure.....	177
8.5	Test Result of Spurious Emission	178

Appendix 1: EUT Test Photographs

Appendix 2: Product Photos - Please refer to the file: 22A0299R-Product Photos

Revision History

Report No.	Version	Description	Issued Date
22A0299R-RFUSV23S-A	V1.0	Initial issue of report.	2023/03/28

1. General Information

1.1 EUT Description

Product Name	Mobile Computer
Model No.	RS36
Trade Name	CIPHERLAB
IMEI No.	35226598
FCC ID	Q3N-RS36
IC	5121A-RS36
TX Frequency	LTE Band 2: 1850 MHz ~1910 MHz
	LTE Band 4: 1710 MHz~1755 MHz
	LTE Band 5: 824 MHz~849 MHz
	LTE Band 7: 2500 MHz ~2570 MHz
	LTE Band 12: 699 MHz~716 MHz
	LTE Band 13: 777 MHz ~787 MHz
	LTE Band 17: 704 MHz~716 MHz
	LTE Band 25: 1850 MHz ~1915 MHz
	LTE Band 26 : 824 MHz~849 MHz (Part 22)
	LTE Band 38: 2570 MHz ~2620 MHz
	LTE Band 41: 2545 MHz ~2655 MHz
	LTE Band 66: 1710 MHz ~1780 MHz
RX Frequency	LTE Band 2: 1930 MHz ~1990 MHz
	LTE Band 4: 2110 MHz ~2155 MHz
	LTE Band 5: 869 MHz ~894 MHz
	LTE Band 7: 2620 MHz ~2690 MHz
	LTE Band 12: 729 MHz ~746 MHz
	LTE Band 13: 746 MHz ~756 MHz
	LTE Band 17: 734 MHz ~746 MHz
	LTE Band 25: 1930 MHz ~1995 MHz
	LTE Band 26: 869 MHz ~894 MHz (Part 22)
	LTE Band 38: 2570 MHz ~2620 MHz
	LTE Band 41: 2545 MHz ~2655 MHz
	LTE Band 66: 2110 MHz ~2200 MHz

Bandwidth	LTE Band 2: 1.4 MHz/3 MHz/5 MHz/10 MHz/15 MHz/20 MHz
	LTE Band 4: 1.4 MHz/3 MHz/5 MHz/10 MHz/15 MHz/20 MHz
	LTE Band 5: 1.4 MHz/3 MHz/5 MHz/10 MHz
	LTE Band 7: 5 MHz/10 MHz/15 MHz/20 MHz
	LTE Band 12: 1.4 MHz/3 MHz/5 MHz/10 MHz
	LTE Band 13: 5 MHz/10 MHz
	LTE Band 17: 5 MHz/10 MHz
	LTE Band 25: 1.4 MHz/3 MHz/5 MHz/10 MHz/15 MHz/20 MHz
	LTE Band 26: 1.4 MHz/3 MHz/5 MHz/10 MHz/15 MHz
	LTE Band 38: 5 MHz/10 MHz/15 MHz/20 MHz
	LTE Band 41: 5 MHz/10 MHz/15 MHz/20 MHz
	LTE Band 66: 1.4 MHz/3 MHz/5 MHz/10 MHz/15 MHz/20 MHz
Type of Modulation	QPSK / 16QAM / 64QAM
Power Cable (Optional)	Trade Name: CIPHERLAB, M/N: RS35 SNAP ON, Non-shielded, 1.5m
Adapter #1 (Optional)	Trade Name: Sunny, M/N: SYS1561-1005 Input: AC 100-240V~, 1.0A MAX, 50-60Hz Output: +5.0V=2.0A
Adapter #2 (Optional)	Trade Name: CWT, M/N: 2AEA010BC3D Input: AC 100-240V~ 50/60Hz 0.35A Output: 5.0V=2.0A 10.0W

Supported Unit	
Type C Cable	Trade Name: SUNCA, M/N: 1Q11512211-XJ, Shielded, 1m

1.2 Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	Auden	KZWLSLSVS0001 (LTE Main, TX/RX)	PIFA	2.5 dBi for LTE Band 2 / 25 3.1 dBi for LTE Band 4 / 66 0.5 dBi for LTE Band 5 / 26 (Part 22) 2.6 dBi for LTE Band 7 1.4 dBi for LTE Band 12 / 17 -0.3 dBi for LTE Band 13 2.6 dBi for LTE Band 38 / 41
2	Auden	KZWLSLSVS0001 (LTE Aux, TX/RX)	PIFA	-2.0 dBi for LTE Band 2 / 25 -3.0 dBi for LTE Band 4 / 66 -4.5 dBi for LTE Band 5 / 26 (Part 22) 0.5 dBi for LTE Band 7 -6.6 dBi for LTE Band 12 / 17 -4.1 dBi for LTE Band 13 0.5 dBi for LTE Band 38 / 41

Note: The above EUT information is declared by the manufacturer

1.3 Operational Description

The EUT provide all functions described as above. The EUT is tested with maximum rated TX power via the Base Station simulator. DEKRA has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

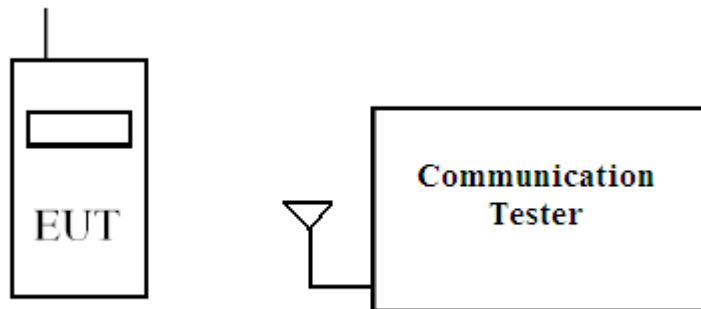
Test Mode	Mode 1: LTE Band 2 / 25 Mode 2: LTE Band 4 / 66 Mode 3: LTE Band 5 / 26 (Part 22) Mode 4: LTE Band 7 Mode 5: LTE Band 12 / 17 Mode 6: LTE Band 13 Mode 7: LTE Band 38 / 41
-----------	--

Note:

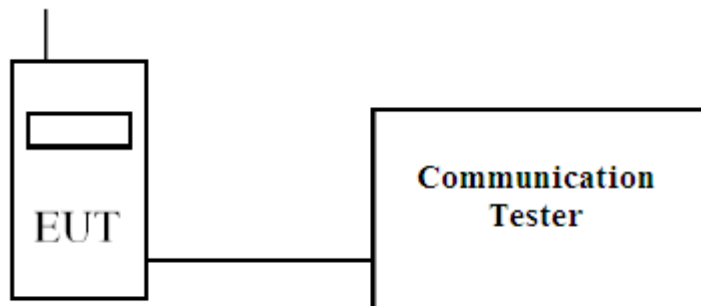
1. Regards to the frequency band operation; the lowest, middle and highest frequency of channel were selected to perform the test, and then shown on this report.
2. This device was tested under all configurations, combinations, bandwidths, RB configurations and modulations, and the worst case was found in QPSK modulation, therefore the "Conducted Band Edge" & "Spurious Emission" test items perform QPSK modulation in this report.
3. Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
4. The EUT was performed at X axis, Y axis and Z axis position for radiated spurious emission tests. The worst case was found at Z axis, so the measurement will follow this same test configuration
5. LTE Band 2 is covered by Band 25.
6. LTE Band 4 is covered by Band 66.
7. LTE Band 5 is covered by Band 26.
8. LTE Band 17 is covered by Band 12.
9. LTE Band 38 is covered by Band 41.

1.4 Configuration of tested System

(a) Configuration of Radiated measurement



(b) Configuration of Conducted measurement



1.5 EUT Setup Procedures

- (1) Setup the EUT and simulators as shown on 1.4
- (2) Turn on the power of all equipment.
- (3) The EUT was set to communicate with Base Station simulator.
- (4) Repeat the above procedure (3).

1.6 Test Facility

Ambient conditions in the laboratory:

Performed Item	Items	Actual	Test Date
Radiated Emission	Temperature (°C)	25.3 °C	2022/11/23 ~2022/12/16
	Humidity (%RH)	69.9 %	
Conductive	Temperature (°C)	24.2 °C	
	Humidity (%RH)	50.0 %	

USA : FCC Registration Number: TW0033**Canada : CAB Identifier Number: TW3023 / Company Number: 26930**

Site Description : Accredited by TAF
Accredited Number: 3023

Test Laboratory : DEKRA Testing and Certification Co., Ltd
Address : No. 5-22, Ruishukeng Linkou District, New Taipei City, 24451, Taiwan
Performed Location : No. 26, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan, R.O.C.
Phone number : +886-3-275-7255
Fax number : +886-3-327-8031
Email address : info.tw@dekra.com
Website : <http://www.dekra.com.tw>

2. Technical Test

2.1 Summary of test result

Test Item	FCC Reference section	FCC Limit	Result
RF Output Power	§2.1046	<7 Watts for §22.913(a) <2 Watts for §24.232(c) <3 Watts for §27.50(b, c) <1 Watts for §27.50(d) <2 Watts for §27.50(h)	Pass
	§22.913(a)		
	§24.232(c)		
	§27.50 (b, c, d, h)		
Occupied Bandwidth	§2.1049	Within the frequency range	Pass
	§22.863		
	§24.238(b)		
	§27.53 (c, g, h, m)		
Spurious Emission at Antenna Terminals	§2.1051	<-13 dBm <-13 dBm / <-35 dBm for §27.50(c) <-10 dBm / <-13 dBm / <-25 dBm for §27.50(m)	Pass
	§22.917(a)		
	§24.238(a)		
	§27.53 (c, g, h, m)		
Conducted Emission	§2.1051	<-13dBm <-25 dBm for §27.50(m)	Pass
	§22.917(a)		
	§24.238(a)		
	§27.53 (c, g, h, m)		
Field Strength of Spurious Radiation	§2.1053	<-13 dBm <-40 dBm for §27.53(f) <-25 dBm for §27.50(m)	Pass
	§22.917(a)		
	§24.238(a)		
	§27.53 (c, f, g, h, m)		
Frequency Stability for Temperature & Voltage	§2.1055	<±2.5 ppm for §22.355 Within the frequency range for §24.235, §27.54	Pass
	§22.355		
	§24.235		
	§27.54		
Peak to Average Ratio	§22.913 (d)	<13 dB	Pass
	§24.232 (d)		
	§27.50		

Test Item	IC Reference section	IC Limit	Result
Conducted Output Power	RSS GEN §6.12	<3 Watts for RSS 130 §4.6 <11.5 Watts for RSS 132 §5.4 <2 Watts for RSS 133 §6.4 <1 Watts for RSS 139 §6.5 <2 Watts for RSS 199 §4.4	Pass
	RSS 130 §4.6		
	RSS 132 §5.4		
	RSS 133 §6.4		
	RSS 139 §6.5		
	RSS 199 §4.4		
Occupied Bandwidth	RSS GEN §6.7	Within the frequency range	Pass
	RSS 130 §4.5		
	RSS 132 §5.3		
	RSS 133 §6.3		
	RSS 139 §6.4		
	RSS 199 §4.2		
Spurious Emission at Antenna Terminals	RSS GEN §6.13	<-13dBm <-13dBm / <-35dBm for RSS 130 §4.7 <-10dBm / <-13dBm / <-25dBm for RSS 199 §4.5	Pass
	RSS 130 §4.7		
	RSS 132 §5.5		
	RSS 133 §6.5		
	RSS 139 §6.6		
	RSS 199 §4.5		
Conducted Emission	RSS GEN §6.13	<-13dBm <-25dBm for RSS 199 §4.5	Pass
	RSS 130 §4.7		
	RSS 132 §5.5		
	RSS 133 §6.5		
	RSS 139 §6.6		
	RSS 199 §4.5		
Field Strength of Spurious Radiation	RSS GEN §6.13	<-13dBm <-40dBm for RSS 130 §4.7 <-25dBm for RSS 199 §4.5	Pass
	RSS 130 §4.7		
	RSS 132 §5.5		
	RSS 133 §6.5		
	RSS 139 §6.6		
	RSS 199 §4.5		
Frequency Stability for Temperature & Voltage	RSS GEN §6.11	<±2.5 ppm for RSS 132 §5.3, RSS 133 §6.3 Within the frequency range for RSS 130 §4.5, RSS 139 §6.4, RSS 199 §4.3	Pass
	RSS 130 §4.5		
	RSS 132 §5.3		
	RSS 133 §6.3		
	RSS 139 §6.4		
	RSS 199 §4.3		
Peak to Average Ratio	RSS 130 §4.6	<13dB	Pass
	RSS 132 §5.4		
	RSS 133 §6.4		
	RSS 139 §6.5		
	RSS 199 §4.4		

2.2 List of test Equipment

Conducted / HY-SR03

Instrument Description	Manufacturer	Model No.	Serial No.	Last Calibration	Next Calibration
Spectrum Analyzer	Agilent	N9010A	MY51440132	2022/01/07	2023/01/06
Standard Temperature & Humidity Chamber	K SON	THS-D4T-100	A0606	2022/08/23	2023/08/22
DC Power Supply	Keysight	E36234A	MY59001234	2022/10/31	2023/10/30
Radio Communication Analyzer	Anritsu	MT8820C	6201465467	2022/08/10	2023/08/09

Radiated / HY-CB03

Instrument Description	Manufacturer	Model No.	Serial No.	Last Calibration	Next Calibration
Bi-Log Antenna	SCHWARZBECK	VULB9168	9168-675	2021/08/11	2023/08/10
Horn Antenna	Com-Power	AH-840	101100	2021/10/04	2023/10/03
Horn Antenna	RF SPIN	DRH18-E	210508A18ES	2022/06/08	2023/06/07
Pre-Amplifier	SGH	0301	20211007-10	2022/02/22	2023/02/21
Pre-Amplifier	SGH	PRAMP118	20200701	2022/07/28	2023/07/27
Pre-Amplifier	EMCI	EMC05820SE	980310	2022/07/28	2023/07/27
Pre-Amplifier	EMCI	EMC184045SE	980369	2022/05/12	2023/05/11
Coaxial Cable	EMCI	EMC102-KM-KM-600	1160314		
Coaxial Cable	EMCI	EMC102-KM-KM-7000	170242		
Spectrum Analyzer	R&S	FSV3044	101114	2022/02/11	2023/02/10
Coaxial Cable	SGH	SGH18	2021005-1	2022/3/18	2023/03/17
Coaxial Cable	SGH	SGH18	202108-4		
Coaxial Cable	SGH	HA800	GD20110223-1		
Coaxial Cable	SGH	HA800	GD20110222-3		
Radio Communication Analyzer	Anritsu	MT8820C	6201465467	2022/08/10	2023/08/09

2.3 Measurement Uncertainty

Uncertainties have been calculated according to the DEKRA internal document with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95 % confidence level based on a coverage factor ($k=2$).

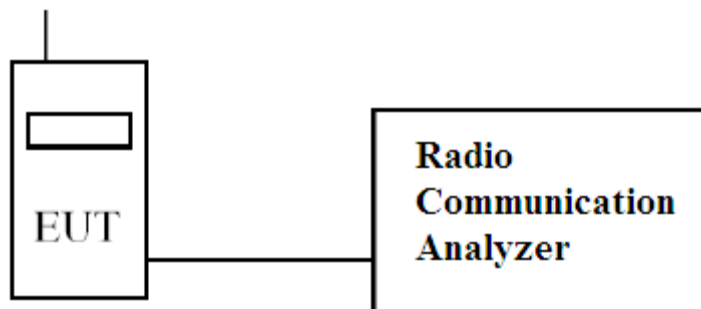
Test Item	Uncertainty
Conducted Output Power	± 1.52 dB
Occupied Bandwidth	± 5.32 Hz
Conducted Band Edge	± 1.52 dB
Conducted Spurious Emissions	± 1.52 dB
Radiated Spurious Emissions	± 4.05 dB below 1 GHz ± 4.10 dB above 1 GHz
Frequency Stability	± 220.92 Hz

3. Conducted Output Power Measurement

3.1 Test Specification

According to FCC Part 2.1046, 22.913, 24.232, 27.50, RSS-GEN, RSS-130, RSS-132, RSS-133, RSS-139, RSS-199.

3.2 Test Setup



3.3 Limits

Band	Limit
LTE Band 2/1900	EIRP < 2 W
LTE Band 4/1700	EIRP < 1 W
LTE Band 5/850	ERP < 7 W
LTE Band 7/2500	EIRP < 2 W
LTE Band 12/700	ERP < 3 W
LTE Band 13/700	ERP < 3 W
LTE Band 17/700	ERP < 3 W
LTE Band 25/1900	EIRP < 2 W
LTE Band 26/850	ERP < 7 W
LTE Band 38/2600	EIRP < 2 W
LTE Band 41/2600	EIRP < 2 W
LTE Band 66/1700	EIRP < 1 W

3.4 Test Procedure

The EUT is tested with maximum rated TX power via the Base Station simulator, and the output power was measured at the antenna terminals of the EUT.

3.5 Test Result of Maximum Power Output

Channel	Modulation	LTE Band 2/25 (1900 MHz)							
		RB	RB	Maximum Conducted Output Power					
		No.	Offset	1.4 M	3 M	5 M	10 M	15 M	20 M
Low	QPSK	1	#0	22.04	22.07	21.85	21.95	22.20	22.23
		1	#Mid	22.24	22.21	21.94	21.96	22.27	22.36
		1	#Max	22.17	21.99	21.78	21.78	21.99	22.01
		50%	#0	21.21	21.34	21.21	21.16	21.09	21.35
		50%	#Mid	21.18	21.35	21.12	21.18	21.10	21.38
		50%	#Max	21.13	21.19	21.14	21.16	21.19	21.25
		100%	--	21.32	21.17	21.13	21.16	21.23	21.34
	16QAM	1	#0	21.49	20.92	21.01	21.08	21.03	20.85
		1	#Mid	21.50	20.96	20.82	21.10	20.90	21.15
		1	#Max	21.42	21.08	20.88	20.92	20.96	20.91
		50%	#0	21.33	20.20	20.12	20.23	20.15	20.09
		50%	#Mid	21.40	20.30	20.11	20.18	20.11	20.14
		50%	#Max	21.35	20.35	20.11	20.23	20.17	20.21
		100%	--	20.31	20.17	20.32	20.23	20.29	20.15
	64QAM	1	#0	20.32	20.12	20.12	20.18	20.26	20.26
		1	#Mid	20.30	20.53	20.42	20.21	20.54	20.31
		1	#Max	20.20	20.05	19.88	20.09	20.20	20.19
		50%	#0	20.23	19.23	19.36	19.26	19.19	19.20
		50%	#Mid	20.31	19.23	19.18	19.27	19.21	19.15
		50%	#Max	20.26	19.07	19.20	19.25	19.10	19.22
		100%	--	19.20	19.17	19.24	19.07	19.01	19.16

Channel	Modulation	LTE Band 2/25 (1900 MHz)							
		RB	RB	Maximum Conducted Output Power					
		No.	Offset	1.4 M	3 M	5 M	10 M	15 M	20 M
Mid	QPSK	1	#0	22.38	22.26	22.22	22.13	22.14	22.44
		1	#Mid	22.44	22.43	22.56	22.42	22.44	22.73
		1	#Max	22.12	22.32	22.28	22.41	22.16	22.45
		50%	#0	21.41	21.49	21.42	21.43	21.40	21.50
		50%	#Mid	21.33	21.46	21.48	21.44	21.42	21.55
		50%	#Max	21.39	21.45	21.45	21.43	21.38	21.69
		100%	--	21.44	21.37	21.39	21.42	21.43	21.46
	16QAM	1	#0	21.39	21.17	21.19	21.14	21.08	20.95
		1	#Mid	21.55	21.22	21.16	21.40	21.02	21.37
		1	#Max	21.28	21.27	21.15	21.14	20.95	20.97
		50%	#0	21.51	20.33	20.36	20.50	20.38	20.36
		50%	#Mid	21.52	20.39	20.35	20.31	20.30	20.37
		50%	#Max	21.42	20.40	20.31	20.29	20.33	20.34
		100%	--	20.36	20.36	20.26	20.40	20.39	20.38
	64QAM	1	#0	20.66	20.32	20.22	20.27	20.30	20.10
		1	#Mid	20.65	20.72	20.77	20.84	20.33	20.85
		1	#Max	20.42	20.27	20.17	20.38	20.25	20.51
		50%	#0	20.40	19.33	19.54	19.31	19.40	19.30
		50%	#Mid	20.39	19.40	19.51	19.61	19.52	19.49
		50%	#Max	20.35	19.44	19.48	19.20	19.47	19.44
		100%	--	19.32	19.41	19.28	19.31	19.39	19.48

Channel	Modulation	LTE Band 2/25 (1900 MHz)							
		RB	RB	Maximum Conducted Output Power					
		No.	Offset	1.4 M	3 M	5 M	10 M	15 M	20 M
High	QPSK	1	#0	21.55	22.40	22.10	22.21	22.31	22.43
		1	#Mid	21.70	22.65	22.51	22.62	22.47	22.69
		1	#Max	21.03	20.78	20.73	20.81	20.78	21.07
		50%	#0	21.41	21.35	21.33	21.39	21.30	21.49
		50%	#Mid	21.17	21.46	21.46	21.47	21.44	21.54
		50%	#Max	20.96	21.47	21.43	21.45	21.41	21.48
		100%	--	21.23	21.32	21.34	21.43	21.45	21.45
	16QAM	1	#0	21.02	21.51	21.37	21.33	21.19	21.12
		1	#Mid	21.12	21.44	21.37	21.58	21.18	21.42
		1	#Max	20.24	21.54	20.34	20.33	20.20	20.53
		50%	#0	20.88	20.74	20.66	20.39	20.39	20.37
		50%	#Mid	20.64	20.70	20.61	20.50	20.46	20.45
		50%	#Max	20.45	20.73	20.42	20.50	20.58	20.52
		100%	--	20.64	20.78	20.65	20.56	20.48	20.33
	64QAM	1	#0	20.32	20.69	20.42	20.44	20.44	20.36
		1	#Mid	20.19	20.72	20.94	21.01	20.70	20.79
		1	#Max	19.76	19.63	19.49	19.44	19.28	19.50
		50%	#0	20.21	19.71	20.02	19.68	19.64	19.34
		50%	#Mid	20.02	19.50	19.74	19.85	19.63	19.49
		50%	#Max	19.88	19.45	19.40	19.57	19.77	19.65
		100%	--	19.56	19.73	19.37	19.63	19.42	19.56

Channel	Modulation	LTE Band 4/66 (1700 MHz)							
		RB	RB	Maximum Conducted Output Power					
		No.	Offset	1.4 M	3 M	5 M	10 M	15 M	20 M
Low	QPSK	1	#0	17.50	17.29	17.41	17.48	17.54	17.59
		1	#Mid	17.60	17.54	17.60	17.61	17.59	17.94
		1	#Max	17.52	17.27	17.44	17.29	17.45	17.54
		50%	#0	16.67	16.54	16.70	16.65	16.55	16.77
		50%	#Mid	16.53	16.51	16.69	16.63	16.57	16.73
		50%	#Max	16.62	16.55	16.57	16.63	16.47	16.68
		100%	--	16.62	16.64	16.47	16.61	16.53	16.72
	16QAM	1	#0	16.48	16.62	16.42	16.46	16.41	16.73
		1	#Mid	16.50	16.65	16.50	16.64	16.62	16.74
		1	#Max	16.45	16.57	16.41	16.45	16.34	16.60
		50%	#0	15.78	15.44	15.47	15.77	15.46	15.89
		50%	#Mid	15.75	15.35	15.43	15.75	15.44	15.83
		50%	#Max	15.68	15.31	15.51	15.60	15.47	15.71
		100%	--	15.55	15.47	15.65	15.46	15.44	15.74
	64QAM	1	#0	16.63	16.52	16.46	16.59	16.41	16.82
		1	#Mid	16.66	16.54	16.54	16.62	16.49	16.86
		1	#Max	16.49	16.42	16.53	16.40	16.42	16.61
		50%	#0	15.64	15.47	15.40	15.71	15.62	15.84
		50%	#Mid	15.63	15.57	15.49	15.70	15.54	15.73
		50%	#Max	15.61	15.46	15.40	15.63	15.46	15.72
		100%	--	15.39	15.51	15.66	15.66	15.52	15.73

Channel	Modulation	LTE Band 4/66 (1700 MHz)							
		RB	RB	Maximum Conducted Output Power					
		No.	Offset	1.4 M	3 M	5 M	10 M	15 M	20 M
Mid	QPSK	1	#0	17.74	17.80	17.80	17.76	17.75	17.93
		1	#Mid	17.85	17.89	17.86	17.84	17.81	18.01
		1	#Max	17.76	17.78	17.76	17.68	17.70	17.87
		50%	#0	16.60	16.86	16.69	16.72	16.59	16.89
		50%	#Mid	16.65	16.75	16.72	16.77	16.62	16.79
		50%	#Max	16.74	16.80	16.67	16.69	16.52	16.81
		100%	--	16.76	16.67	16.69	16.68	16.50	16.80
	16QAM	1	#0	16.82	16.85	16.81	16.80	16.70	16.94
		1	#Mid	16.86	16.99	16.95	16.87	16.88	17.02
		1	#Max	16.81	16.86	16.82	16.79	16.68	16.86
		50%	#0	15.75	15.67	15.70	15.60	15.53	15.87
		50%	#Mid	15.70	15.73	15.75	15.64	15.54	15.85
		50%	#Max	15.62	15.77	15.63	15.59	15.55	15.88
		100%	--	15.61	15.45	15.62	15.63	15.53	15.67
	64QAM	1	#0	16.46	16.42	16.83	16.88	16.76	16.93
		1	#Mid	16.58	16.57	16.90	16.90	16.85	16.99
		1	#Max	16.40	16.44	16.79	16.81	16.74	16.89
		50%	#0	15.70	15.60	15.57	15.71	15.72	15.73
		50%	#Mid	15.77	15.53	15.48	15.71	15.71	15.78
		50%	#Max	15.64	15.54	15.51	15.68	15.65	15.74
		100%	--	15.51	15.71	15.69	15.71	15.63	15.75

Channel	Modulation	LTE Band 4/66 (1700 MHz)							
		RB	RB	Maximum Conducted Output Power					
		No.	Offset	1.4 M	3 M	5 M	10 M	15 M	20 M
High	QPSK	1	#0	17.66	17.79	17.57	17.61	17.67	17.83
		1	#Mid	17.84	17.82	17.63	17.67	17.75	17.96
		1	#Max	17.64	17.74	17.54	17.54	17.43	17.86
		50%	#0	16.69	16.73	16.69	16.69	16.64	16.87
		50%	#Mid	16.67	16.68	16.67	16.68	16.57	16.78
		50%	#Max	16.70	16.68	16.64	16.62	16.54	16.73
		100%	--	16.73	16.73	16.62	16.64	16.57	16.78
	16QAM	1	#0	16.60	16.63	16.41	16.63	16.58	16.68
		1	#Mid	16.64	16.66	16.42	16.65	16.69	16.96
		1	#Max	16.49	16.48	16.40	16.54	16.66	16.73
		50%	#0	15.86	15.48	15.41	15.59	15.65	15.89
		50%	#Mid	15.70	15.49	15.47	15.60	15.61	15.76
		50%	#Max	15.63	15.47	15.48	15.50	15.50	15.70
		100%	--	15.56	15.70	15.53	15.66	15.59	15.77
	64QAM	1	#0	16.40	16.52	16.40	16.38	16.49	16.62
		1	#Mid	16.58	16.60	16.55	16.52	16.69	16.76
		1	#Max	16.48	16.50	16.49	16.43	16.48	16.71
		50%	#0	15.72	15.64	15.50	15.78	15.58	15.91
		50%	#Mid	15.70	15.62	15.49	15.77	15.62	15.88
		50%	#Max	15.69	15.60	15.51	15.70	15.71	15.83
		100%	--	15.62	15.63	15.68	15.74	15.64	15.90

Channel	Modulation	LTE Band 5/26 (850 MHz)						
		RB	RB	Maximum Conducted Output Power				
		No.	Offset	1.4 M	3 M	5 M	10 M	15 M
Low	QPSK	1	#0	22.35	23.48	22.56	22.55	22.63
		1	#Mid	22.38	23.63	23.64	23.34	23.79
		1	#Max	22.34	22.58	22.54	22.55	22.59
		50%	#0	22.37	22.30	22.31	22.34	22.56
		50%	#Mid	22.33	22.45	22.40	22.39	22.58
		50%	#Max	22.30	22.37	22.28	22.26	22.54
		100%	--	21.29	22.30	22.39	22.25	22.45
	16QAM	1	#0	22.25	22.77	22.25	22.26	21.68
		1	#Mid	22.29	23.14	23.05	22.66	22.51
		1	#Max	22.29	22.82	21.79	21.87	21.53
		50%	#0	22.09	21.66	21.37	21.39	21.13
		50%	#Mid	22.16	21.71	21.67	21.45	21.29
		50%	#Max	22.10	21.65	21.33	21.31	21.22
		100%	--	21.01	21.55	21.44	21.29	21.13
	64QAM	1	#0	21.96	21.75	21.27	21.17	20.69
		1	#Mid	22.06	22.13	22.06	21.58	21.53
		1	#Max	22.00	21.82	20.84	20.78	20.50
		50%	#0	21.93	20.69	20.45	20.42	20.19
		50%	#Mid	22.00	20.73	20.74	20.48	20.34
		50%	#Max	21.96	20.65	20.42	20.34	20.26
		100%	--	20.69	20.61	20.47	20.32	20.15

Channel	Modulation	LTE Band 5/26 (850 MHz)						
		RB	RB	Maximum Conducted Output Power				
		No.	Offset	1.4 M	3 M	5 M	10 M	15 M
Mid	QPSK	1	#0	22.01	22.43	22.63	22.59	23.05
		1	#Mid	22.45	23.37	23.34	23.68	23.91
		1	#Max	22.22	22.35	22.74	22.68	23.28
		50%	#0	22.00	22.26	22.14	22.21	22.65
		50%	#Mid	20.52	22.51	22.50	22.41	22.68
		50%	#Max	21.90	22.09	22.19	22.16	22.61
		100%	--	21.37	22.38	22.16	22.09	22.49
	16QAM	1	#0	22.30	22.34	21.88	21.87	21.45
		1	#Mid	22.42	22.70	22.65	22.97	22.64
		1	#Max	22.37	22.59	22.07	22.01	21.40
		50%	#0	22.10	21.47	21.21	21.26	21.18
		50%	#Mid	22.40	21.62	21.56	21.45	21.41
		50%	#Max	22.37	21.50	21.26	21.20	21.03
		100%	--	21.51	21.48	21.21	21.13	21.11
	64QAM	1	#0	21.61	21.32	20.92	20.85	20.60
		1	#Mid	21.86	21.69	21.64	21.99	21.66
		1	#Max	21.82	21.59	21.04	20.94	20.40
		50%	#0	21.55	20.48	20.26	20.29	20.22
		50%	#Mid	21.85	20.64	20.64	20.50	20.46
		50%	#Max	21.83	20.52	20.32	20.26	20.08
		100%	--	20.46	20.54	20.24	20.16	20.13

Channel	Modulation	LTE Band 5/26 (850 MHz)						
		RB	RB	Maximum Conducted Output Power				
		No.	Offset	1.4 M	3 M	5 M	10 M	15 M
High	QPSK	1	#0	22.33	22.72	22.59	22.68	22.77
		1	#Mid	22.48	22.74	22.88	23.41	23.45
		1	#Max	22.17	22.08	22.05	22.05	22.24
		50%	#0	21.42	21.56	21.90	22.11	22.13
		50%	#Mid	21.41	21.44	21.81	22.20	22.21
		50%	#Max	21.33	21.25	21.22	21.67	21.74
		100%	--	21.25	21.40	21.57	21.82	21.87
	16QAM	1	#0	21.64	21.99	21.84	21.96	21.60
		1	#Mid	21.70	22.00	22.23	22.73	22.46
		1	#Max	21.51	21.41	20.93	20.94	20.47
		50%	#0	21.51	20.67	20.97	21.14	21.07
		50%	#Mid	21.54	20.55	20.88	21.24	21.22
		50%	#Max	21.45	20.36	20.29	20.71	20.89
		100%	--	20.38	20.47	20.63	20.87	20.91
	64QAM	1	#0	20.75	21.03	20.90	20.96	20.61
		1	#Mid	20.79	21.05	21.24	21.73	21.47
		1	#Max	20.65	20.45	19.95	19.94	19.46
		50%	#0	20.65	19.72	20.04	20.18	20.12
		50%	#Mid	20.67	19.59	19.98	20.29	20.28
		50%	#Max	20.59	19.37	19.38	19.76	19.94
		100%	--	19.34	19.52	19.67	19.91	20.81

Channel	Modulation	LTE Band 7 (2500 MHz)					
		RB	RB	Maximum Conducted Output Power			
		No.	Offset	5 M	10 M	15 M	20 M
Low	QPSK	1	#0	18.01	18.16	18.15	18.19
		1	#Mid	18.63	18.65	18.65	19.35
		1	#Max	18.01	18.09	18.08	18.11
		50%	#0	17.49	17.50	17.49	17.57
		50%	#Mid	17.53	17.40	17.57	17.57
		50%	#Max	17.55	17.52	17.54	17.56
		100%	--	17.53	17.51	17.53	17.55
	16QAM	1	#0	17.19	17.08	17.01	17.01
		1	#Mid	17.31	17.60	17.11	17.67
		1	#Max	17.13	17.11	16.88	17.21
		50%	#0	16.38	16.53	16.45	16.15
		50%	#Mid	16.50	16.64	16.46	16.28
		50%	#Max	16.45	16.58	16.44	16.26
		100%	--	16.58	16.40	16.40	16.19
	64QAM	1	#0	16.66	16.28	16.79	17.20
		1	#Mid	16.86	16.89	16.86	17.54
		1	#Max	16.46	16.56	16.74	16.63
		50%	#0	15.59	15.70	15.62	16.34
		50%	#Mid	15.73	15.71	15.63	16.34
		50%	#Max	15.86	15.63	15.59	16.33
		100%	--	15.61	15.47	15.45	16.17

Channel	Modulation	LTE Band 7 (2500 MHz)					
		RB	RB	Maximum Conducted Output Power			
		No.	Offset	5 M	10 M	15 M	20 M
Mid	QPSK	1	#0	18.11	18.25	18.22	18.26
		1	#Mid	18.63	18.65	18.60	19.37
		1	#Max	18.04	18.39	18.33	18.54
		50%	#0	17.57	17.60	17.55	17.65
		50%	#Mid	17.50	17.60	17.45	17.61
		50%	#Max	17.51	17.50	17.58	17.61
		100%	--	17.59	17.55	17.55	17.60
	16QAM	1	#0	17.01	17.05	16.98	17.20
		1	#Mid	17.49	17.32	17.13	17.80
		1	#Max	16.50	16.36	17.09	16.86
		50%	#0	16.49	16.35	16.46	16.50
		50%	#Mid	16.32	16.29	16.26	16.38
		50%	#Max	16.26	16.30	16.24	16.35
		100%	--	16.27	16.26	16.41	16.42
	64QAM	1	#0	16.50	16.33	16.66	16.68
		1	#Mid	16.56	16.88	16.70	17.24
		1	#Max	15.99	16.60	16.69	16.83
		50%	#0	15.45	15.74	15.62	16.55
		50%	#Mid	15.74	15.81	15.61	16.50
		50%	#Max	15.53	15.63	15.65	16.46
		100%	--	15.74	15.61	15.78	16.48

Channel	Modulation	LTE Band 7 (2500 MHz)					
		RB	RB	Maximum Conducted Output Power			
		No.	Offset	5 M	10 M	15 M	20 M
High	QPSK	1	#0	18.01	18.16	18.15	18.22
		1	#Mid	18.50	18.45	18.37	19.11
		1	#Max	18.00	18.00	18.01	18.02
		50%	#0	17.46	17.51	17.39	17.59
		50%	#Mid	17.40	17.50	17.40	17.51
		50%	#Max	17.43	17.35	17.39	17.49
		100%	--	17.32	17.39	17.36	17.48
	16QAM	1	#0	17.08	17.27	17.37	17.50
		1	#Mid	17.34	17.40	17.39	17.53
		1	#Max	17.04	17.29	17.20	17.30
		50%	#0	16.44	16.36	16.34	16.48
		50%	#Mid	16.49	16.33	16.45	16.55
		50%	#Max	16.27	16.36	16.44	16.42
		100%	--	16.21	16.38	16.29	16.37
	64QAM	1	#0	16.11	16.59	16.64	16.79
		1	#Mid	16.69	16.61	16.75	16.80
		1	#Max	16.32	16.60	16.49	16.72
		50%	#0	15.59	15.63	15.63	16.31
		50%	#Mid	15.62	15.71	15.65	16.38
		50%	#Max	15.22	15.25	15.41	16.34
		100%	--	15.39	15.55	15.45	16.34

Channel	Modulation	LTE Band 12/17 (700 MHz)					
		RB	RB	Maximum Conducted Output Power			
		No.	Offset	1.4 M	3 M	5 M	10 M
Low	QPSK	1	#0	22.50	22.55	22.51	22.56
		1	#Mid	22.83	22.65	22.78	23.02
		1	#Max	22.58	22.62	22.53	22.63
		50%	#0	21.70	21.68	21.67	21.72
		50%	#Mid	21.65	21.72	21.81	21.84
		50%	#Max	21.66	21.75	21.79	21.79
		100%	--	21.68	21.66	21.78	21.80
	16QAM	1	#0	21.57	21.69	21.39	21.40
		1	#Mid	21.92	21.74	21.45	21.75
		1	#Max	21.86	21.61	21.44	21.71
		50%	#0	21.66	20.38	20.65	20.54
		50%	#Mid	21.75	20.54	20.90	20.66
		50%	#Max	21.72	20.54	20.68	20.67
		100%	--	20.57	20.75	20.61	20.59
	64QAM	1	#0	21.19	20.77	20.72	20.67
		1	#Mid	21.06	21.13	21.00	21.32
		1	#Max	20.79	20.83	20.79	20.90
		50%	#0	20.63	19.45	19.75	19.58
		50%	#Mid	20.73	19.55	19.96	19.89
		50%	#Max	20.70	19.75	19.83	19.95
		100%	--	19.56	19.66	19.93	19.79

Channel	Modulation	LTE Band 12/17 (700 MHz)					
		RB	RB	Maximum Conducted Output Power			
		No.	Offset	1.4 M	3 M	5 M	10 M
Mid	QPSK	1	#0	22.58	22.63	22.55	22.64
		1	#Mid	22.91	22.89	23.09	23.13
		1	#Max	22.57	22.50	22.86	22.87
		50%	#0	21.73	21.79	21.73	21.81
		50%	#Mid	21.67	21.84	21.84	22.01
		50%	#Max	21.67	21.81	21.78	21.82
		100%	--	21.74	21.81	21.82	21.83
	16QAM	1	#0	21.81	21.73	21.76	21.62
		1	#Mid	22.17	21.88	21.74	22.04
		1	#Max	22.06	21.87	21.74	21.70
		50%	#0	21.62	20.78	20.62	20.72
		50%	#Mid	21.85	20.93	20.97	20.59
		50%	#Max	21.85	20.88	20.79	20.59
		100%	--	20.58	20.47	20.89	20.70
	64QAM	1	#0	21.21	20.44	20.48	20.53
		1	#Mid	21.16	20.96	20.90	20.83
		1	#Max	20.82	20.68	20.44	20.71
		50%	#0	20.65	19.62	19.98	19.97
		50%	#Mid	20.23	19.59	19.95	19.95
		50%	#Max	20.76	19.71	19.96	19.95
		100%	--	19.65	19.83	19.97	19.70

Channel	Modulation	LTE Band 12/17 (700 MHz)					
		RB	RB	Maximum Conducted Output Power			
		No.	Offset	1.4 M	3 M	5 M	10 M
High	QPSK	1	#0	22.50	22.50	22.50	22.51
		1	#Mid	22.59	22.84	22.89	23.04
		1	#Max	22.58	22.51	22.56	22.60
		50%	#0	21.62	21.71	21.80	21.80
		50%	#Mid	21.69	21.86	21.86	21.87
		50%	#Max	21.76	21.78	21.75	21.78
		100%	--	21.81	21.77	21.72	21.81
	16QAM	1	#0	21.53	21.62	21.49	21.27
		1	#Mid	21.95	21.71	21.44	21.73
		1	#Max	21.67	21.66	21.49	21.47
		50%	#0	21.88	20.54	20.74	20.91
		50%	#Mid	21.93	20.66	20.66	20.82
		50%	#Max	21.86	20.50	20.85	21.00
		100%	--	20.56	20.76	20.68	20.84
	64QAM	1	#0	21.27	20.67	20.50	20.70
		1	#Mid	21.24	21.10	20.78	21.38
		1	#Max	21.23	20.76	20.16	21.22
		50%	#0	20.85	19.60	19.62	19.94
		50%	#Mid	20.90	19.66	19.72	19.69
		50%	#Max	20.81	19.60	19.67	19.99
		100%	--	19.76	19.71	19.81	19.77

Channel	Modulation	LTE Band 13 (700 MHz)			
		RB	RB	Maximum Conducted Output Power	
		No.	Offset	5 M	10 M
Low	QPSK	1	#0	22.50	--
		1	#Mid	22.55	--
		1	#Max	22.50	--
		50%	#0	21.70	--
		50%	#Mid	21.74	--
		50%	#Max	21.70	--
		100%	--	21.72	--
	16QAM	1	#0	21.32	--
		1	#Mid	21.50	--
		1	#Max	21.42	--
		50%	#0	20.24	--
		50%	#Mid	20.30	--
		50%	#Max	20.29	--
		100%	--	20.37	--
	64QAM	1	#0	20.57	--
		1	#Mid	20.88	--
		1	#Max	20.33	--
		50%	#0	19.41	--
		50%	#Mid	19.49	--
		50%	#Max	19.46	--
		100%	--	19.58	--

Channel	Modulation	LTE Band 13 (700 MHz)			
		RB	RB	Maximum Conducted Output Power	
		No.	Offset	5 M	10 M
Mid	QPSK	1	#0	22.51	22.53
		1	#Mid	22.59	22.72
		1	#Max	22.53	22.60
		50%	#0	21.71	21.78
		50%	#Mid	21.75	21.82
		50%	#Max	21.63	21.76
		100%	--	21.69	21.77
	16QAM	1	#0	21.52	21.74
		1	#Mid	21.94	22.04
		1	#Max	21.43	21.69
		50%	#0	20.60	20.85
		50%	#Mid	20.59	20.88
		50%	#Max	20.66	20.72
		100%	--	20.87	20.68
	64QAM	1	#0	20.30	20.80
		1	#Mid	20.84	21.27
		1	#Max	20.15	20.96
		50%	#0	19.81	19.45
		50%	#Mid	19.76	19.82
		50%	#Max	19.74	19.59
		100%	--	19.89	19.76

Channel	Modulation	LTE Band 13 (700 MHz)			
		RB	RB	Maximum Conducted Output Power	
		No.	Offset	5 M	10 M
High	QPSK	1	#0	22.54	--
		1	#Mid	22.58	--
		1	#Max	22.52	--
		50%	#0	21.65	--
		50%	#Mid	21.58	--
		50%	#Max	21.73	--
		100%	--	21.72	--
	16QAM	1	#0	21.52	--
		1	#Mid	21.87	--
		1	#Max	21.44	--
		50%	#0	20.68	--
		50%	#Mid	20.63	--
		50%	#Max	20.58	--
		100%	--	20.60	--
	64QAM	1	#0	20.47	--
		1	#Mid	20.90	--
		1	#Max	20.38	--
		50%	#0	19.70	--
		50%	#Mid	19.90	--
		50%	#Max	19.68	--
		100%	--	19.36	--

Channel	Modulation	LTE Band 38/41 (2600 MHz)					
		RB	RB	Maximum Conducted Output Power			
		No.	Offset	5 M	10 M	15 M	20 M
Low	QPSK	1	#0	22.22	22.19	22.22	22.27
		1	#Mid	22.25	22.23	22.12	22.34
		1	#Max	21.88	22.14	22.09	22.21
		50%	#0	21.15	21.15	21.15	21.45
		50%	#Mid	21.20	21.11	21.13	21.45
		50%	#Max	21.10	21.14	21.11	21.39
		100%	--	21.08	21.16	21.10	21.41
	16QAM	1	#0	20.65	20.72	20.70	20.65
		1	#Mid	20.66	20.86	20.75	20.87
		1	#Max	20.61	20.59	20.55	20.45
		50%	#0	20.35	20.48	20.02	20.18
		50%	#Mid	20.39	20.47	20.02	20.25
		50%	#Max	20.32	20.45	20.09	20.32
		100%	--	20.50	20.11	20.20	20.24
	64QAM	1	#0	20.27	20.20	20.39	20.24
		1	#Mid	20.42	20.30	20.26	20.32
		1	#Max	19.94	20.20	20.22	20.17
		50%	#0	20.37	20.20	20.05	20.13
		50%	#Mid	20.34	20.18	20.17	20.19
		50%	#Max	20.30	20.27	20.16	20.15
		100%	--	20.40	20.23	20.18	20.20

Channel	Modulation	LTE Band 38/41 (2600 MHz)					
		RB	RB	Maximum Conducted Output Power			
		No.	Offset	5 M	10 M	15 M	20 M
Mid	QPSK	1	#0	21.76	21.92	21.99	22.30
		1	#Mid	22.01	22.04	21.96	22.60
		1	#Max	21.83	22.01	21.91	22.25
		50%	#0	20.99	21.08	21.01	21.46
		50%	#Mid	21.06	21.07	21.06	21.54
		50%	#Max	21.01	21.04	21.05	21.53
		100%	--	20.99	21.06	21.05	21.53
	16QAM	1	#0	20.34	20.52	20.30	20.48
		1	#Mid	20.63	20.77	20.51	20.76
		1	#Max	20.54	20.58	20.49	20.42
		50%	#0	20.19	20.40	20.08	19.90
		50%	#Mid	20.31	20.37	20.19	20.18
		50%	#Max	20.23	20.36	20.22	20.14
		100%	--	20.19	20.02	20.11	20.06
	64QAM	1	#0	19.82	20.05	20.35	19.75
		1	#Mid	20.30	20.18	20.20	20.11
		1	#Max	20.06	20.01	20.23	20.08
		50%	#0	20.23	20.10	20.24	20.05
		50%	#Mid	20.25	20.13	20.31	20.10
		50%	#Max	20.24	20.16	20.33	20.05
		100%	--	20.12	20.16	20.09	20.10

Channel	Modulation	LTE Band 38/41 (2600 MHz)					
		RB	RB	Maximum Conducted Output Power			
		No.	Offset	5 M	10 M	15 M	20 M
High	QPSK	1	#0	21.41	21.54	21.64	21.75
		1	#Mid	21.51	21.66	21.63	22.07
		1	#Max	21.37	21.61	21.64	21.83
		50%	#0	20.62	20.74	20.73	20.94
		50%	#Mid	20.70	20.73	20.73	20.95
		50%	#Max	20.65	20.73	20.71	21.02
		100%	--	20.63	20.71	20.70	20.96
	16QAM	1	#0	20.10	20.18	20.18	20.10
		1	#Mid	20.12	20.44	20.29	20.31
		1	#Max	20.11	20.27	20.22	20.13
		50%	#0	19.82	20.06	19.63	19.61
		50%	#Mid	19.81	19.86	19.80	19.83
		50%	#Max	19.86	20.06	19.87	19.81
		100%	--	20.00	19.65	19.73	19.75
	64QAM	1	#0	19.75	19.74	19.95	19.56
		1	#Mid	19.96	19.81	19.60	19.88
		1	#Max	19.60	19.57	19.89	19.84
		50%	#0	19.57	19.79	19.93	19.76
		50%	#Mid	19.67	19.79	19.91	19.76
		50%	#Max	19.82	19.78	19.69	19.73
		100%	--	19.77	19.77	19.72	19.79

3.6 Maximum Conducted Power and ERP/EIRP Power

According to KDB 412172 D01 Section 1.2 Power Approach

$$\text{EIRP} = \text{PT} + \text{GT} - \text{LC} = \text{ERP} + 2.15 \text{ dB}, \text{ERP} = \text{EIRP} - 2.15 \text{ dB}$$

PT = transmitter output power in dBm

GT = gain of the transmitting antenna in dBi

LC = signal attenuation in the connecting cable between the transmitter and antenna in dB

LTE Band	BW	Modulation	Conducted Peak Power (dBm)	Conducted Peak Power (W)	Antenna Gain (dBi)	Maximum EIRP (W)	Maximum EIRP Limit (W)
2/25	1.4 M	QPSK	22.44	0.175	2.5	0.312	2
		16QAM	21.55	0.143	2.5	0.254	2
		64QAM	20.66	0.116	2.5	0.207	2
	3 M	QPSK	22.65	0.184	2.5	0.327	2
		16QAM	21.54	0.143	2.5	0.254	2
		64QAM	20.72	0.118	2.5	0.210	2
	5 M	QPSK	22.56	0.180	2.5	0.321	2
		16QAM	21.37	0.137	2.5	0.244	2
		64QAM	20.94	0.124	2.5	0.221	2
	10 M	QPSK	22.62	0.183	2.5	0.325	2
		16QAM	21.58	0.144	2.5	0.256	2
		64QAM	21.01	0.126	2.5	0.224	2
	15 M	QPSK	22.47	0.177	2.5	0.314	2
		16QAM	21.19	0.132	2.5	0.234	2
		64QAM	20.70	0.117	2.5	0.209	2
	20 M	QPSK	22.73	0.187	2.5	0.333	2
		16QAM	21.42	0.139	2.5	0.247	2
		64QAM	20.85	0.122	2.5	0.216	2

LTE Band	BW	Modulation	Conducted Peak Power (dBm)	Conducted Peak Power (W)	Antenna Gain (dBi)	Maximum EIRP (W)	Maximum EIRP Limit (W)
4/66	1.4 M	QPSK	17.85	0.061	3.1	0.124	1
		16QAM	16.86	0.049	3.1	0.099	1
		64QAM	16.66	0.046	3.1	0.095	1
	3 M	QPSK	17.89	0.062	3.1	0.126	1
		16QAM	16.99	0.050	3.1	0.102	1
		64QAM	16.60	0.046	3.1	0.093	1
	5 M	QPSK	17.86	0.061	3.1	0.125	1
		16QAM	16.95	0.050	3.1	0.101	1
		64QAM	16.90	0.049	3.1	0.100	1
	10 M	QPSK	17.84	0.061	3.1	0.124	1
		16QAM	16.87	0.049	3.1	0.099	1
		64QAM	16.90	0.049	3.1	0.100	1
	15 M	QPSK	17.81	0.060	3.1	0.123	1
		16QAM	16.88	0.049	3.1	0.100	1
		64QAM	16.85	0.048	3.1	0.099	1
	20 M	QPSK	18.01	0.063	3.1	0.129	1
		16QAM	17.02	0.050	3.1	0.103	1
		64QAM	16.99	0.050	3.1	0.102	1

LTE Band	BW	Modulation	Conducted Peak Power (dBm)	Conducted Peak Power (W)	Antenna Gain (dBi)	Maximum ERP (W)	Maximum ERP Limit (W)
5/26	1.4 M	QPSK	22.48	0.177	0.5	0.121	7
		16QAM	22.42	0.175	0.5	0.119	7
		64QAM	22.06	0.161	0.5	0.110	7
	3 M	QPSK	23.63	0.231	0.5	0.158	7
		16QAM	23.14	0.206	0.5	0.141	7
		64QAM	22.13	0.163	0.5	0.112	7
	5 M	QPSK	23.64	0.231	0.5	0.158	7
		16QAM	23.05	0.202	0.5	0.138	7
		64QAM	22.06	0.161	0.5	0.110	7
	10 M	QPSK	23.68	0.233	0.5	0.160	7
		16QAM	22.97	0.198	0.5	0.136	7
		64QAM	21.99	0.158	0.5	0.108	7
	15 M	QPSK	23.91	0.246	0.5	0.168	7
		16QAM	22.64	0.184	0.5	0.126	7
		64QAM	21.66	0.147	0.5	0.100	7

LTE Band	BW	Modulation	Conducted Peak Power (dBm)	Conducted Peak Power (W)	Antenna Gain (dBi)	Maximum EIRP (W)	Maximum EIRP Limit (W)
7	5 M	QPSK	18.63	0.073	2.6	0.133	2
		16QAM	17.49	0.056	2.6	0.102	2
		64QAM	16.86	0.049	2.6	0.088	2
	10 M	QPSK	18.65	0.073	2.6	0.133	2
		16QAM	17.60	0.058	2.6	0.105	2
		64QAM	16.89	0.049	2.6	0.089	2
	15 M	QPSK	18.65	0.073	2.6	0.133	2
		16QAM	17.39	0.055	2.6	0.100	2
		64QAM	16.86	0.049	2.6	0.088	2
	20 M	QPSK	19.37	0.086	2.6	0.157	2
		16QAM	17.80	0.060	2.6	0.110	2
		64QAM	17.54	0.057	2.6	0.103	2

LTE Band	BW	Modulation	Conducted Peak Power (dBm)	Conducted Peak Power (W)	Antenna Gain (dBi)	Maximum ERP (W)	Maximum ERP Limit (W)
12/17	1.4 M	QPSK	22.91	0.195	1.4	0.164	3
		16QAM	22.17	0.165	1.4	0.139	3
		64QAM	21.27	0.134	1.4	0.113	3
	3 M	QPSK	22.89	0.195	1.4	0.164	3
		16QAM	21.88	0.154	1.4	0.130	3
		64QAM	21.13	0.130	1.4	0.109	3
	5 M	QPSK	23.09	0.204	1.4	0.171	3
		16QAM	21.76	0.150	1.4	0.126	3
		64QAM	21.00	0.126	1.4	0.106	3
	10 M	QPSK	23.13	0.206	1.4	0.173	3
		16QAM	22.04	0.160	1.4	0.135	3
		64QAM	21.38	0.137	1.4	0.116	3

LTE Band	BW	Modulation	Conducted Peak Power (dBm)	Conducted Peak Power (W)	Antenna Gain (dBi)	Maximum ERP (W)	Maximum ERP Limit (W)
13	5 M	QPSK	22.59	0.182	-0.3	0.103	3
		16QAM	21.94	0.156	-0.3	0.089	3
		64QAM	20.90	0.123	-0.3	0.070	3
	10 M	QPSK	22.72	0.187	-0.3	0.106	3
		16QAM	22.04	0.160	-0.3	0.091	3
		64QAM	21.27	0.134	-0.3	0.076	3

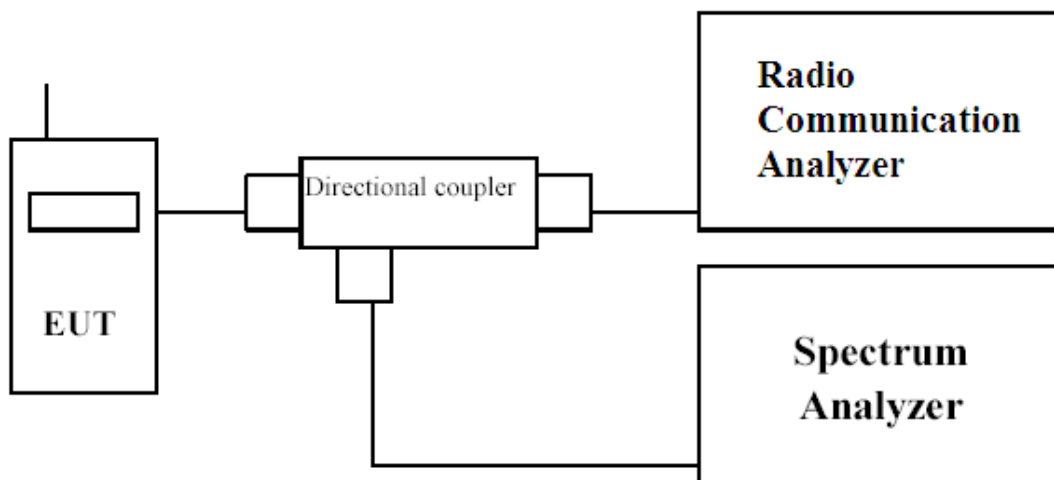
LTE Band	BW	Modulation	Conducted Peak Power (dBm)	Conducted Peak Power (W)	Antenna Gain (dBi)	Maximum EIRP (W)	Maximum EIRP Limit (W)
38/41	5 M	QPSK	22.25	0.168	2.6	0.305	2
		16QAM	20.66	0.116	2.6	0.212	2
		64QAM	20.42	0.110	2.6	0.200	2
	10 M	QPSK	22.23	0.167	2.6	0.304	2
		16QAM	20.86	0.122	2.6	0.222	2
		64QAM	20.30	0.107	2.6	0.195	2
	15 M	QPSK	22.22	0.167	2.6	0.303	2
		16QAM	20.75	0.119	2.6	0.216	2
		64QAM	20.39	0.109	2.6	0.199	2
	20 M	QPSK	22.60	0.182	2.6	0.331	2
		16QAM	20.87	0.122	2.6	0.222	2
		64QAM	20.32	0.108	2.6	0.196	2

4. Occupied Bandwidth

4.1 Test Secification

According to FCC Part 2.1049, 22.917, 24.238, 27.53, RSS-GEN, RSS-130, RSS-132, RSS-133, RSS-139, RSS-199.

4.2 Test Setup



4.3 Test Procedure

The EUT is tested with maximum rated TX power via the Base Station simulator, and the occupied bandwidth was measured at the antenna terminals of the EUT.

The Resolution BW of the analyzer is set to 1 %~5 % of the emission bandwidth. The EUT's occupied bandwidth is measured as the width of the signal between two points, one below the carrier center frequency and one above the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

The plots below show the resultant display from the Spectrum Analyser.

4.4 Test Result of Occupied Bandwidth

LTE Band 2/25								
BW	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			26 dB bandwidth (MHz)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4 M	26047	1850.7	1.0915	1.0888	1.0958	1.281	1.281	1.286
1.4 M	26365	1882.5	1.895	1.0888	1.0954	1.271	1.288	1.280
1.4 M	26683	1914.3	1.0896	1.0886	1.0978	1.283	1.286	1.290
3 M	26055	1851.5	2.7307	2.7178	2.7188	3.055	3.037	3.041
3 M	26365	1882.5	2.7306	2.7137	2.7174	3.060	3.030	3.045
3 M	26675	1913.5	2.7298	2.7174	2.7179	3.054	3.040	3.045
5 M	26065	2852.5	4.4965	4.5100	4.4928	4.976	5.030	4.975
5 M	26365	1882.5	4.4974	4.5162	4.4891	4.982	5.032	4.981
5 M	26665	1912.5	4.4937	4.5133	4.4922	4.960	5.015	4.972
10 M	26090	1855	9.0268	9.0318	9.0124	10.01	10.03	9.991
10 M	26365	1882.5	9.0296	9.0534	9.0238	10.04	9.988	10.01
10 M	26640	1910	9.0057	9.0205	9.0113	9.997	9.989	9.963
15 M	26115	1857.5	13.432	13.410	13.405	14.52	14.60	14.68
15 M	26365	1882.5	13.440	13.425	13.413	14.65	14.60	14.66
15 M	26615	1905	13.411	13.413	13.406	14.63	14.48	14.66
20M	26140	1860	18.452	18.390	18.366	20.47	20.42	20.38
20 M	26365	1882.5	18.483	18.423	18.385	20.43	20.36	20.41
20 M	26590	1905	18.432	18.359	18.345	20.31	20.39	20.31

LTE Band 4/66								
BW	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			26 dB bandwidth (MHz)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4 M	131979	1710.7	1.0911	1.0900	1.0963	1.279	1.277	1.295
1.4 M	132322	1745	1.0911	1.0899	1.0982	1.277	1.289	1.291
1.4 M	132665	1779.3	1.0922	1.0901	1.0970	1.280	1.293	1.293
3 M	131987	1711.5	2.7341	2.7179	2.7203	3.063	3.046	3.046
3 M	132322	1745	2.7336	2.7170	2.7183	3.051	3.041	3.046
3 M	132657	1778.5	2.7309	2.7175	2.7205	3.047	3.045	3.047
5 M	131997	1712.5	4.4992	4.5151	4.4917	4.998	5.035	4.988
5 M	132322	1745	4.4972	4.5155	4.4921	4.994	5.028	4.986
5 M	132647	1777.5	4.4967	4.5139	4.4898	4.985	5.019	4.983
10 M	132022	1715	9.0278	9.0585	9.0246	10.01	10.02	10.01
10 M	132322	1745	9.0271	9.0588	9.0132	10.01	10.01	9.997
10 M	132622	1775	9.0299	9.0549	9.0243	10.02	10.00	9.988
15 M	132047	1717.5	13.417	13.421	13.414	14.60	14.55	14.64
15 M	132322	1745	13.430	13.415	13.393	14.62	14.61	14.66
15 M	132597	1772.5	13.420	13.412	13.396	14.63	14.60	14.70
20 M	132072	1720	18.476	18.407	18.379	20.45	20.43	20.41
20 M	132322	1745	18.454	18.364	18.324	20.38	20.39	20.45
20 M	132572	1770	18.485	18.392	18.347	20.29	20.45	20.27

LTE Band 5/26								
BW	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			26 dB bandwidth (MHz)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4 M	26797	824.7	1.0910	1.0892	1.0963	1.284	1.282	1.283
1.4 M	26915	836.5	1.0903	1.0895	1.0966	1.268	1.287	1.284
1.4 M	27033	848.3	1.0926	1.0886	1.0958	1.285	1.291	1.284
3 M	26805	825.5	2.7307	2.7205	2.7183	3.061	3.042	3.049
3 M	26915	836.5	2.7298	2.7194	2.7216	3.057	3.040	3.039
3 M	27025	847.5	2.7320	2.7153	2.7206	3.059	3.042	3.055
5 M	26815	826.5	4.4924	4.5129	4.4876	4.995	5.036	8.057
5 M	26915	836.5	4.4955	4.5170	4.4915	4.995	5.012	4.971
5 M	27015	846.5	4.4916	4.5149	4.4880	4.966	5.021	4.982
10 M	26840	829	9.0260	9.0306	9.0208	10.02	9.999	9.989
10 M	26915	836.5	9.0362	9.0400	9.0317	9.998	10.01	9.953
10 M	27015	844	9.0070	9.0224	9.0011	10.00	9.988	9.973
15 M	26865	831.5	13.425	13.420	13.411	14.64	14.64	14.70
15 M	26915	836.5	13.444	13.423	13.425	14.69	14.63	14.72
15 M	26965	841.5	13.408	13.389	13.389	14.63	14.62	14.66

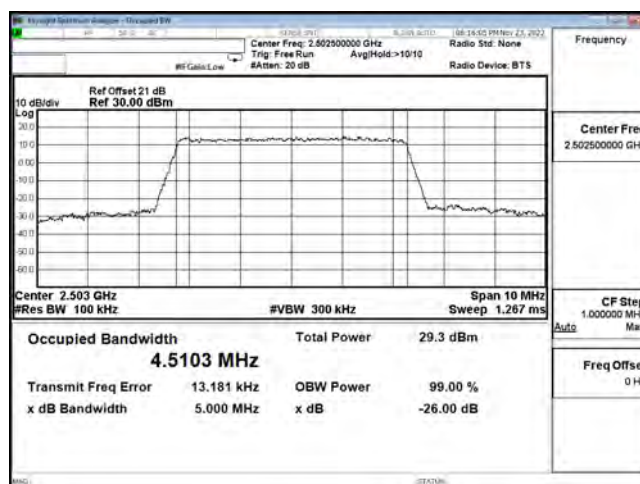
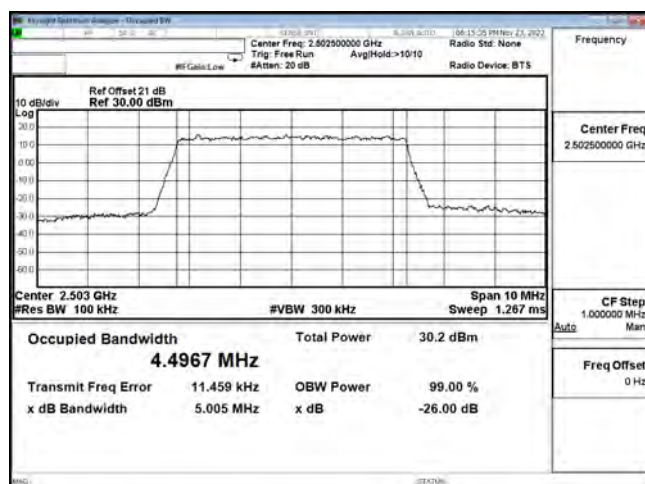
LTE Band 7								
BW	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			26 dB bandwidth (MHz)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 M	20775	2502.5	4.4967	4.5103	4.4871	5.005	5.000	4.966
5 M	21100	2535	4.4959	4.5046	4.4898	4.982	5.004	4.977
5 M	21425	2567.5	4.4958	4.5106	4.4969	4.982	5.021	4.987
10 M	20800	2505	9.0276	9.0454	9.0075	9.994	10.00	9.973
10 M	21100	2535	9.0325	9.0287	9.0328	10.02	10.05	9.974
10 M	21400	2565	9.0263	9.0443	9.0095	10.01	10.03	9.992
15 M	20825	2507.5	13.424	13.395	13.406	14.65	14.68	14.57
15 M	21100	2535	13.445	13.430	13.420	14.62	14.58	14.69
15 M	21375	2562.5	13.432	13.407	13.398	14.56	14.55	14.69
20 M	20850	2510	18.445	18.372	18.441	20.45	20.40	20.36
20 M	21100	2535	18.496	18.429	18.405	20.49	20.41	20.33
20 M	21350	2560	18.473	18.385	18.378	20.41	20.40	20.34

LTE Band 12/17								
BW	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			26 dB bandwidth (MHz)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4 M	23017	699.7	1.0924	1.0901	1.0948	1.283	1.284	1.287
1.4 M	23095	707.5	1.0905	1.0895	1.0982	1.276	1.285	1.284
1.4 M	23173	715.3	1.0902	1.0898	1.0972	1.285	1.282	1.290
3 M	23025	700.5	2.7292	2.7194	2.7179	3.045	3.035	3.052
3 M	23095	707.5	2.7309	2.7195	2.7204	3.059	3.039	3.047
3 M	23165	714.5	2.7305	2.7175	2.7197	3.057	3.040	3.048
5 M	23035	701.5	4.4951	4.5085	4.4904	5.001	5.032	4.967
5 M	23095	707.5	4.4924	4.5180	4.4951	4.987	5.006	4.982
5 M	23155	713.5	4.4949	4.5120	4.4831	4.962	5.028	4.970
10 M	23060	704	9.0457	9.0038	9.0313	10.02	10.05	10.05
10 M	23095	707.5	9.0317	9.0669	9.0364	10.03	9.989	9.949
10 M	23130	711	9.0031	9.0344	8.9990	9.969	9.980	9.966

LTE Band 13								
BW	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			26 dB bandwidth (MHz)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 M	23205	779.5	4.4909	4.5060	4.4795	4.991	5.010	4.951
5 M	23230	782	4.4945	4.5102	4.4868	4.991	5.025	4.974
5 M	23255	784.5	4.4935	4.5119	4.4862	4.976	5.032	4.952
10 M	--	--	--	--	--	--	--	--
10 M	23230	782	9.0057	9.0342	8.9992	9.945	9.990	9.941
10 M	--	--	--	--	--	--	--	--

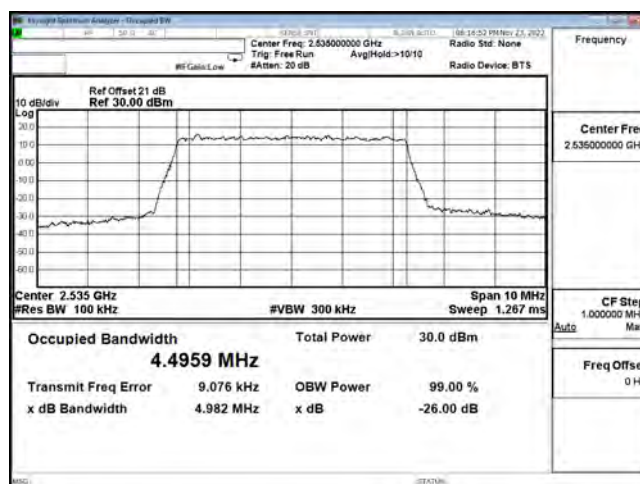
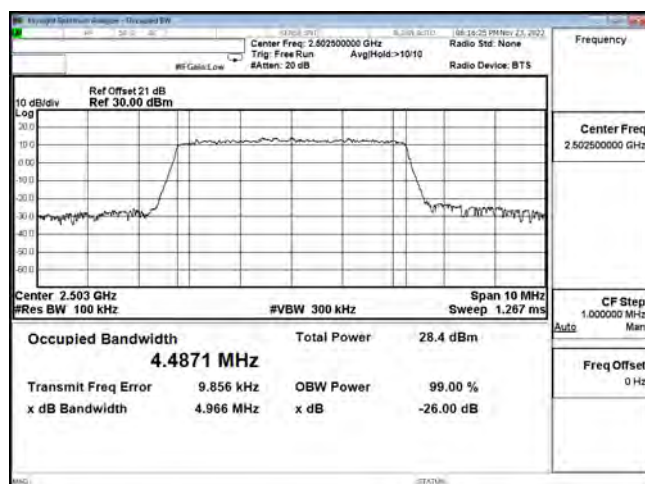
LTE Band 38/41								
BW	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			26 dB bandwidth (MHz)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5M	40165	2547.5	4.4892	4.5160	4.5007	4.990	4.995	4.992
5M	40620	2593	4.4876	4.5134	4.5011	5.013	4.990	4.970
5M	41215	2652.5	4.4895	4.5065	4.4992	5.012	4.998	4.966
10M	40190	2550	9.0076	9.0297	9.0341	9.974	9.919	9.976
10M	10620	2593	9.0173	9.0240	9.0273	9.979	9.913	9.990
10M	41190	2650	9.0048	9.0155	9.0271	9.958	9.863	9.988
15M	40215	2552.5	13.454	13.415	13.403	15.40	14.60	14.62
15M	40620	2593	13.450	13.419	13.420	15.60	14.64	14.62
15M	41165	2647.5	13.443	13.419	13.404	15.67	14.60	14.65
20M	40240	2555	18.506	18.382	18.364	21.09	21.22	21.66
20M	40620	2593	18.516	18.410	18.390	21.02	21.96	21.82
20M	41140	2645	18.527	18.384	18.383	20.97	21.39	23.34

LTE Band 7



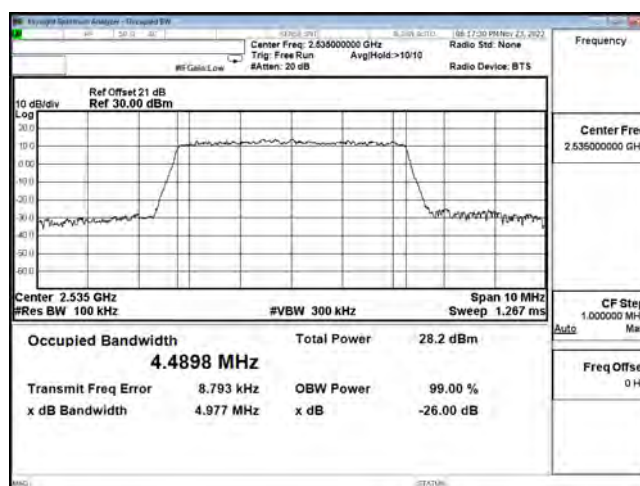
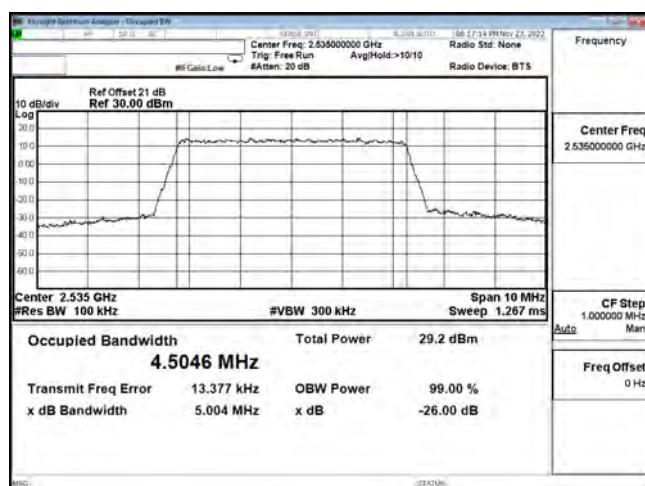
OCC B7 5 M CH20775 QPSK

OCC B7 5 M CH20775 16QAM



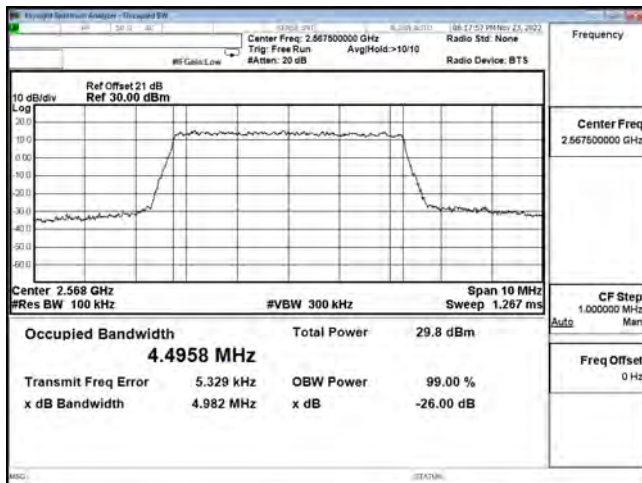
OCC B7 5 M CH20775 64QAM

OCC B7 5 M CH21100 QPSK

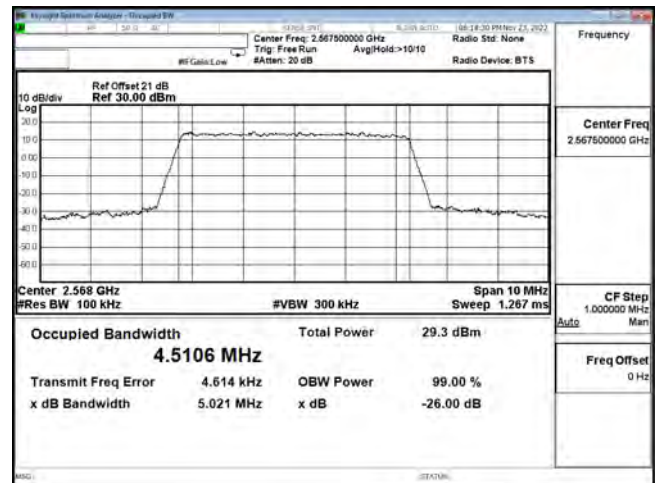


OCC B7 5 M CH21100 16QAM

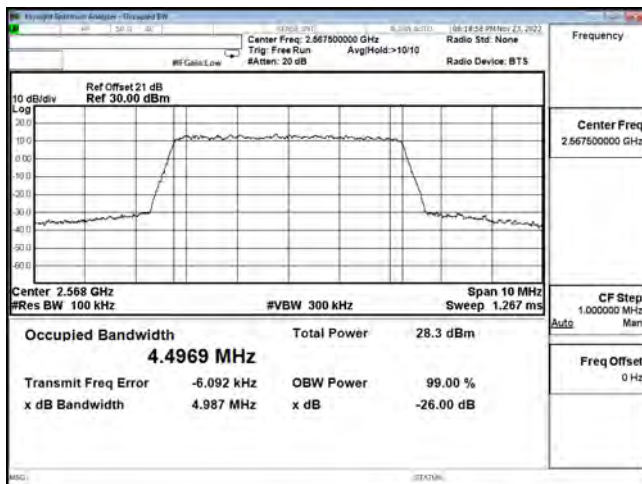
OCC B7 5 M CH21100 64QAM



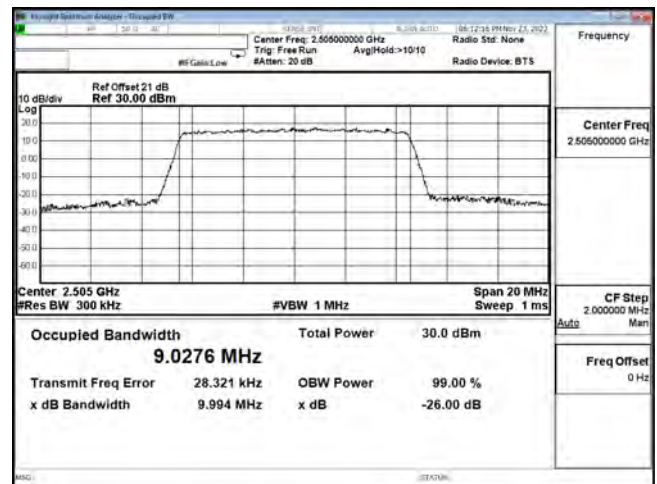
OCC B7 5 M CH21425 QPSK



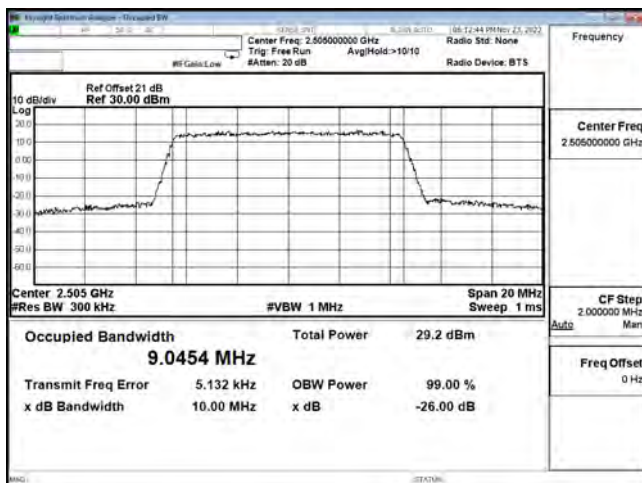
OCC B7 5 M CH21425 16QAM



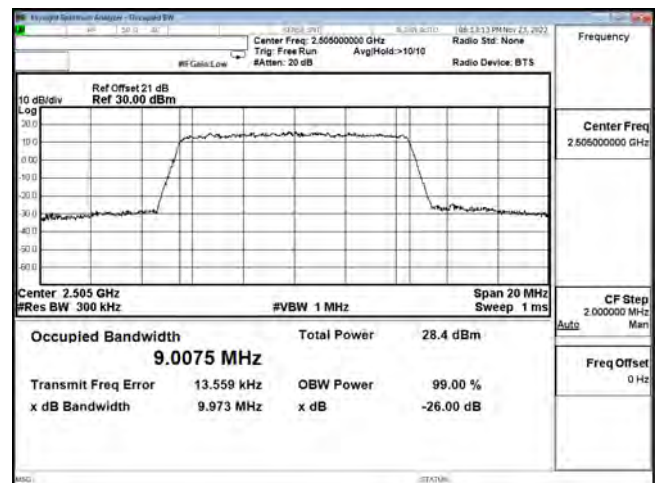
OCC B7 5 M CH21425 64QAM



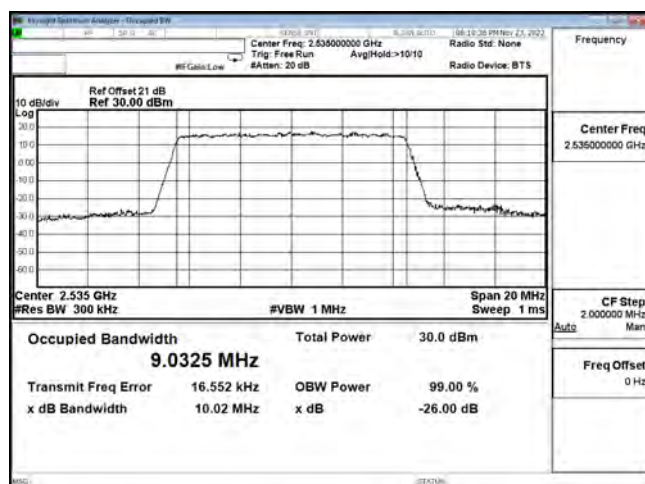
OCC B7 10 M CH20800 QPSK



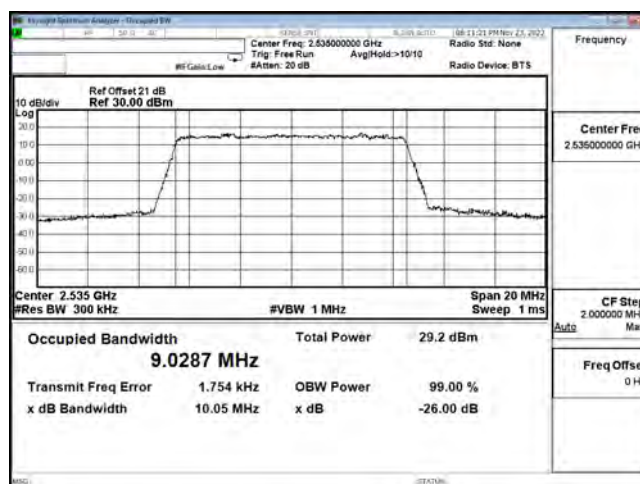
OCC B7 10 M CH20800 16QAM



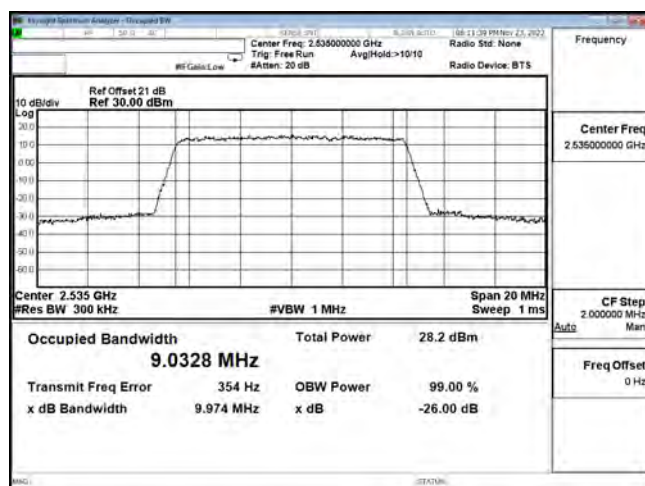
OCC B7 10 M CH20800 64QAM



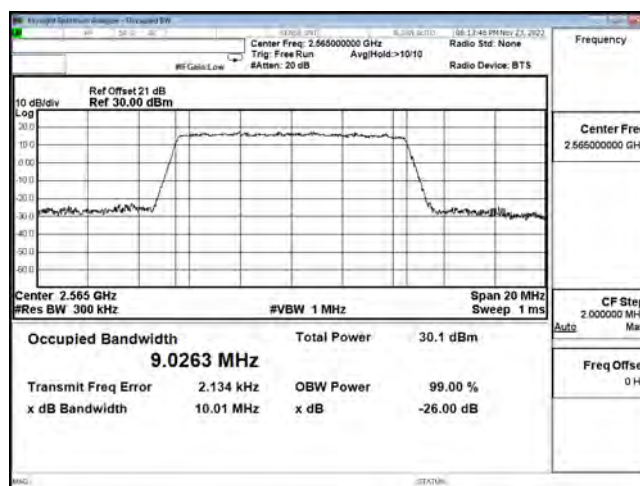
OCC B7 10 M CH21100 QPSK



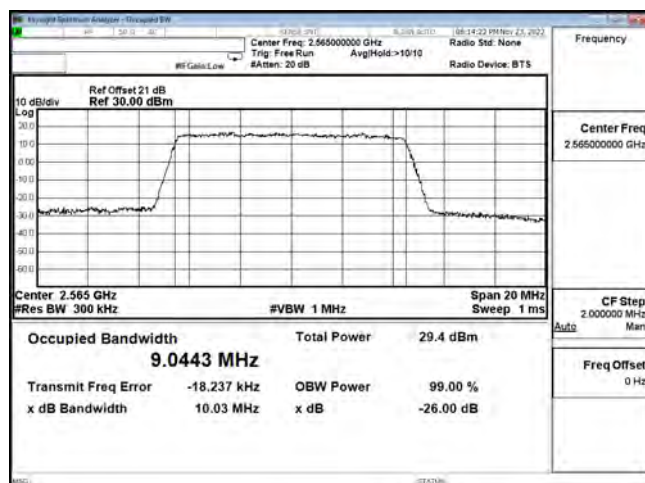
OCC B7 10 M CH21100 16QAM



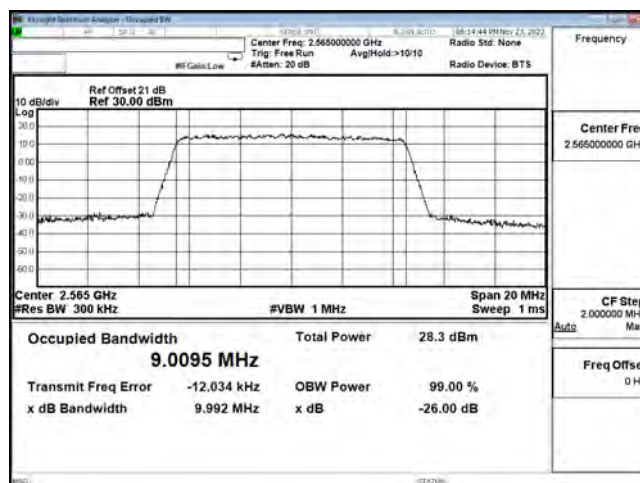
OCC B7 10 M CH21100 64QAM



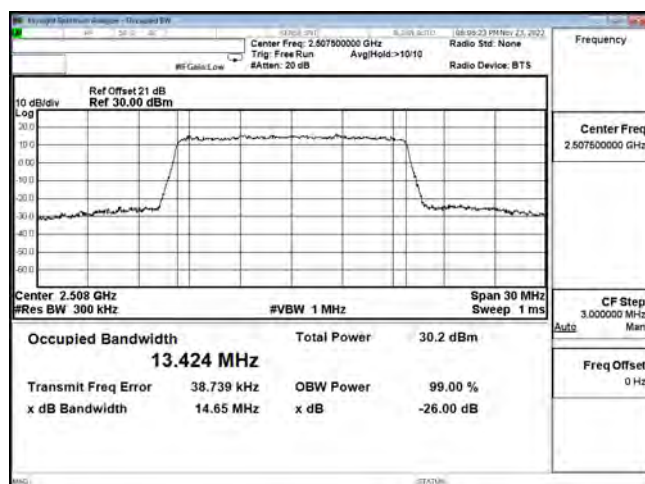
OCC B7 10 M CH21400 QPSK



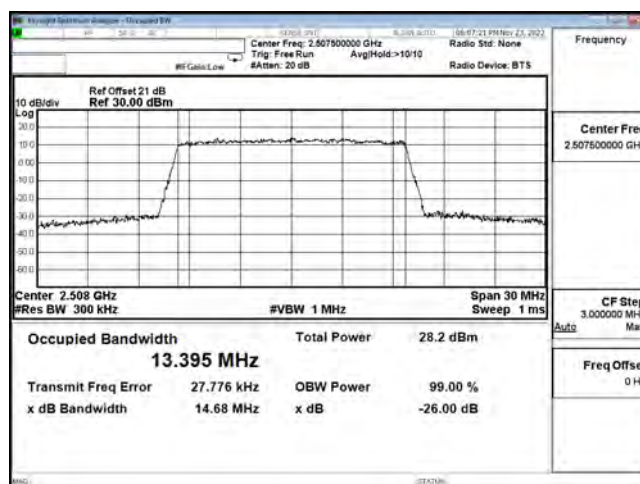
OCC B7 10 M CH21400 16QAM



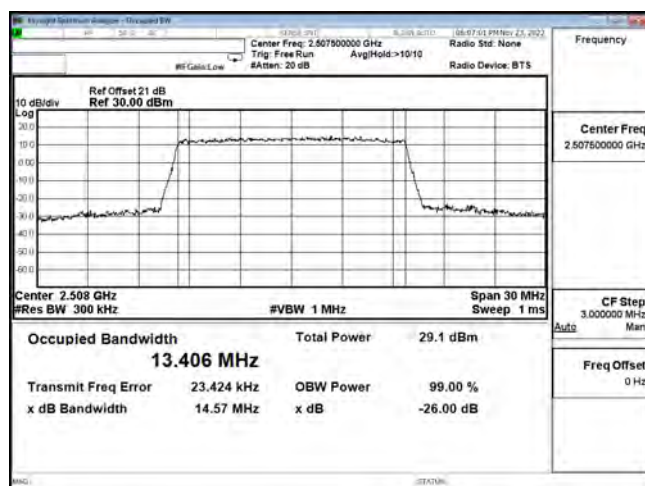
OCC B7 10 M CH21400 64QAM



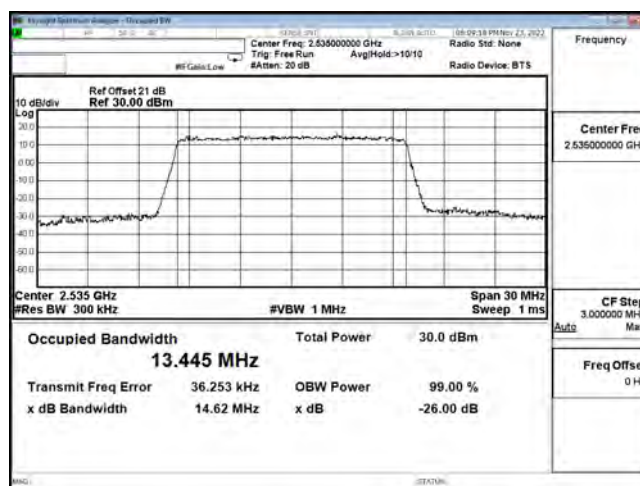
OCC B7 15 M CH20825 QPSK



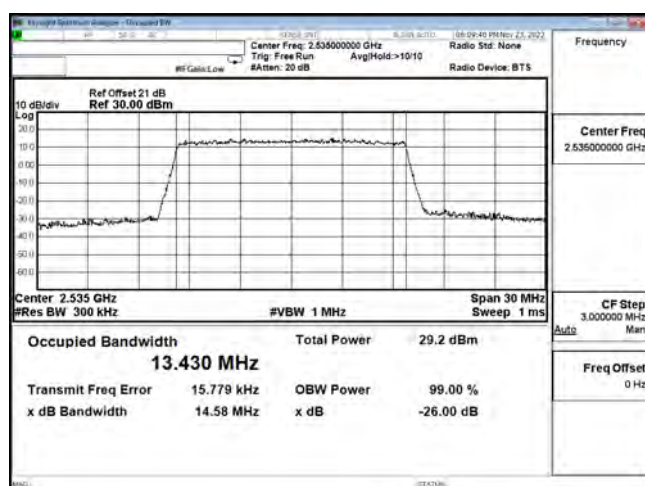
OCC B7 15 M CH20825 64QAM



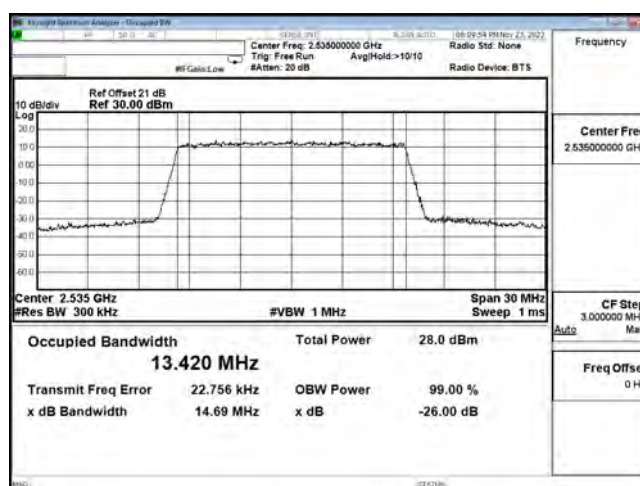
OCC B7 15 M CH20825 116QAM



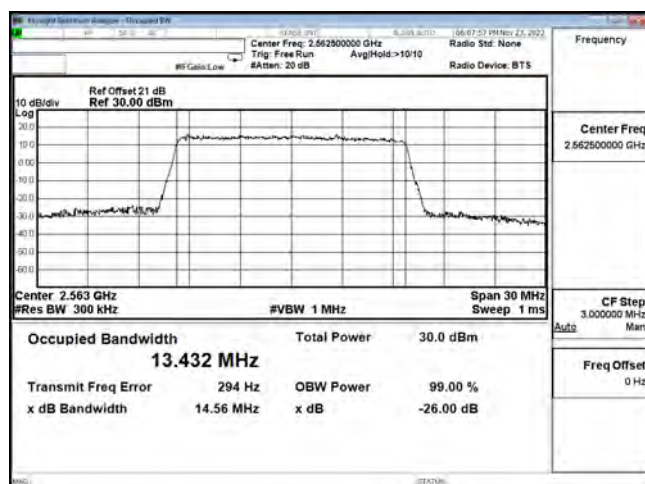
OCC B7 15 M CH21100 QPSK



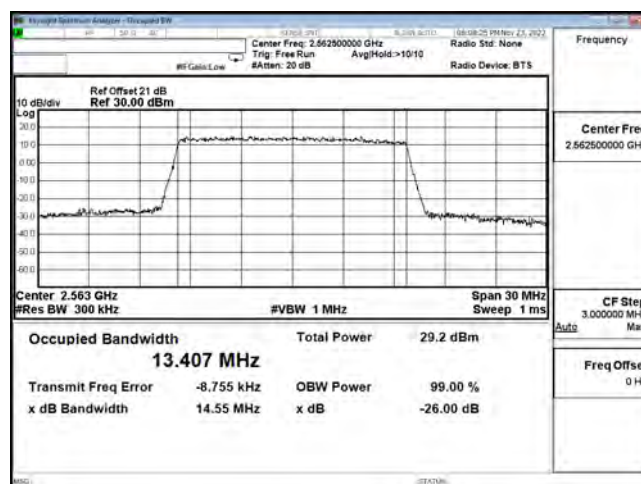
OCC B7 15 M CH21100 16QAM



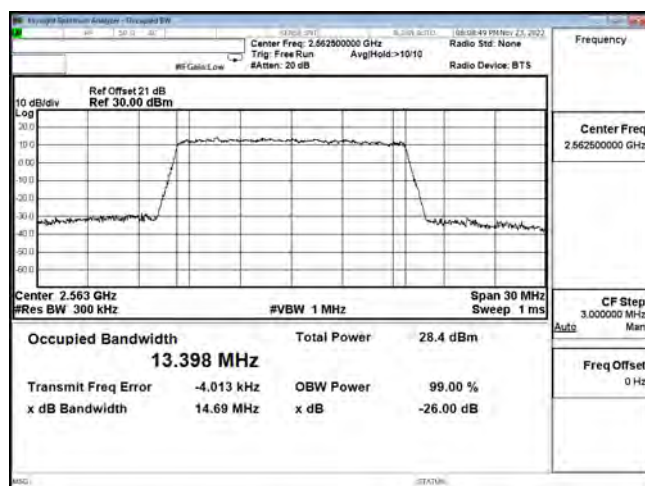
OCC B7 15 M CH21100 64QAM



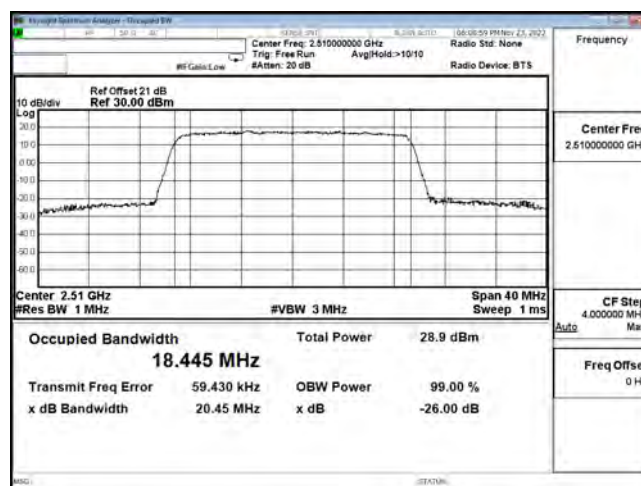
OCC B7 15 M CH21375 QPSK



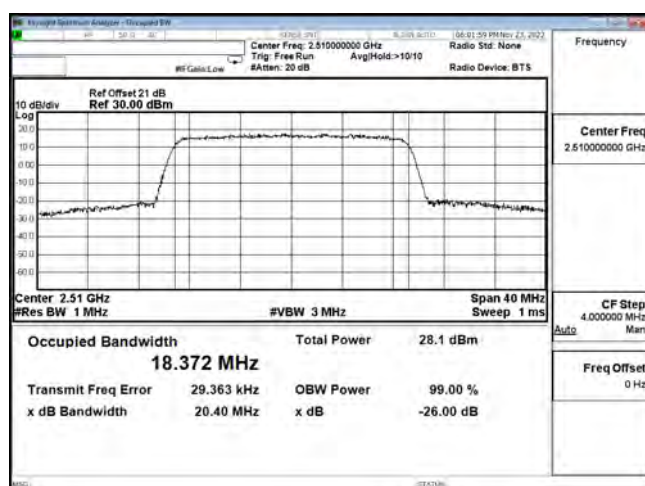
OCC B7 15 M CH21375 16QAM



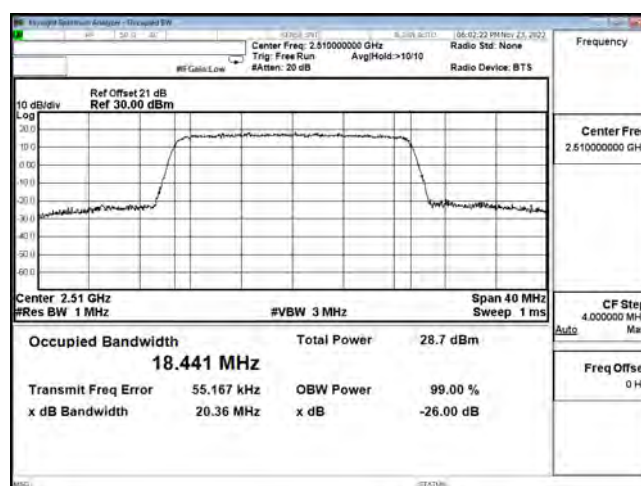
OCC B7 15 M CH21375 64QAM



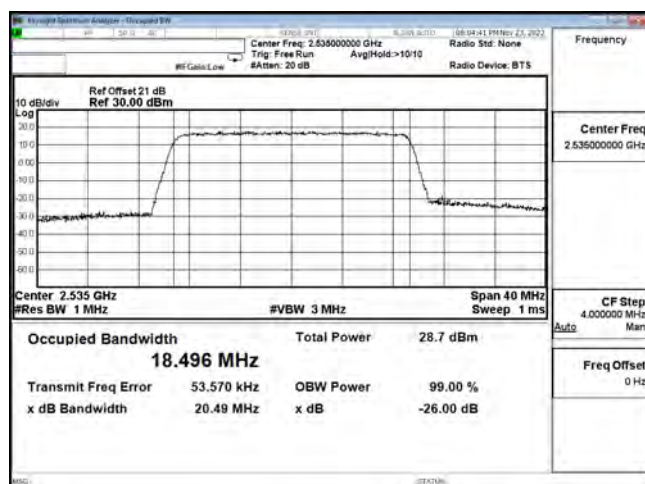
OCC B7 20 M CH20850 QPSK



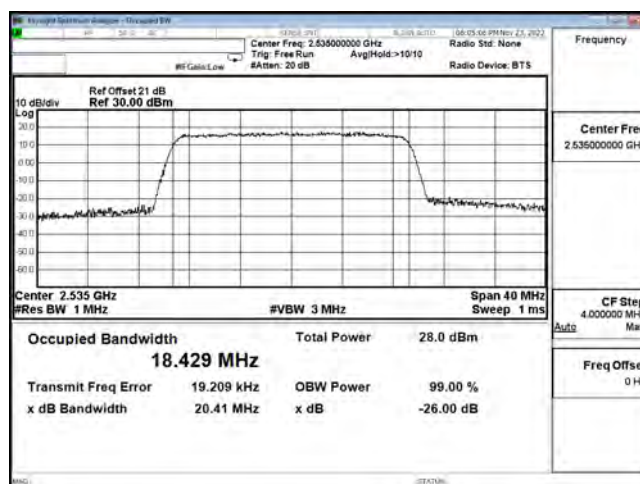
OCC B7 20 M CH20850 16QAM



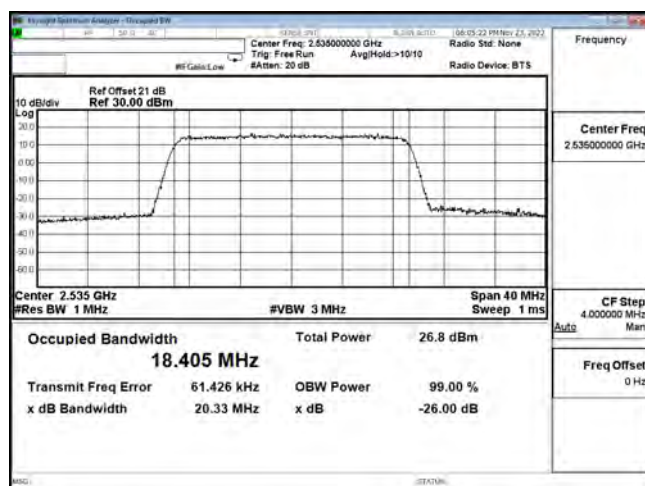
OCC B7 20 M CH20850 64QAM



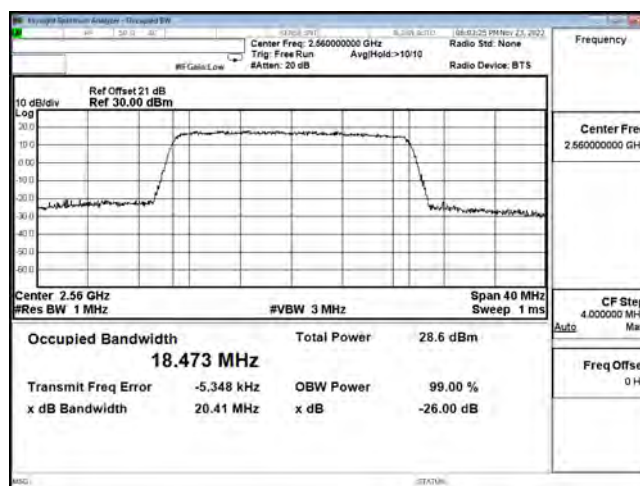
OCC B7 20 M CH211100 QPSK



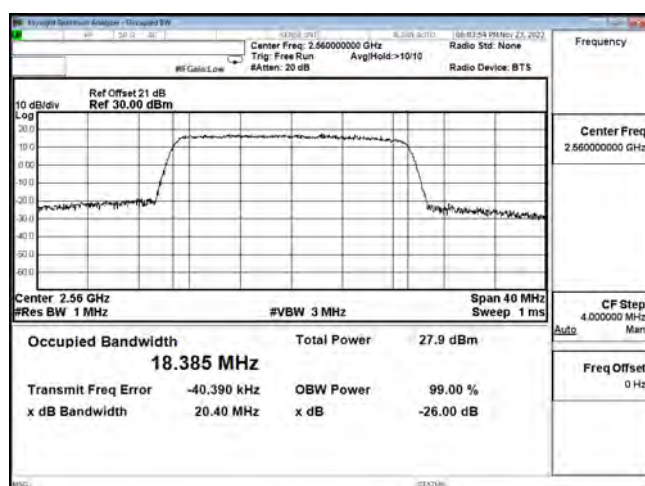
OCC B7 20 M CH211100 16QAM



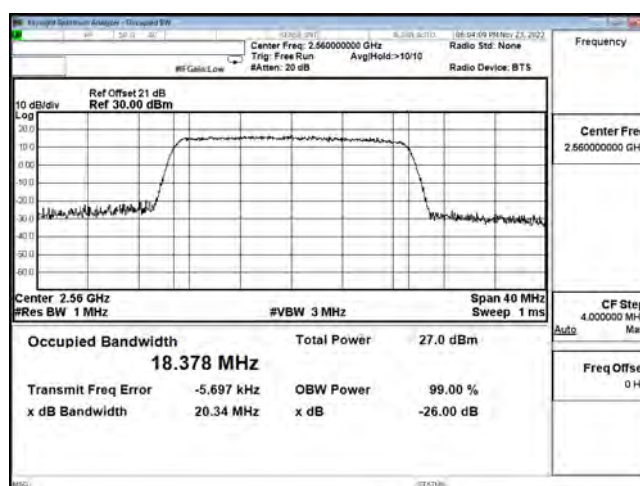
OCC B7 20 M CH211100 64QAM



OCC B7 20 M CH21350 QPSK

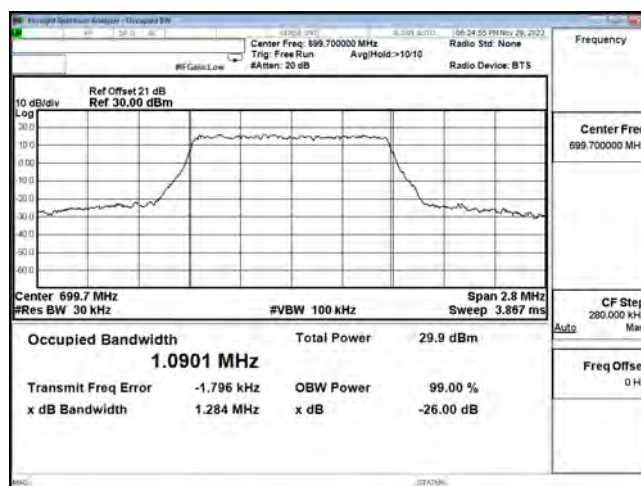
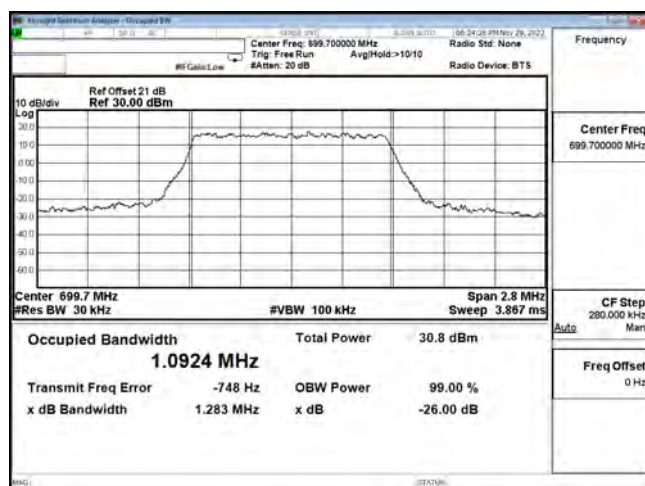


OCC B7 20 M CH21350 16QAM

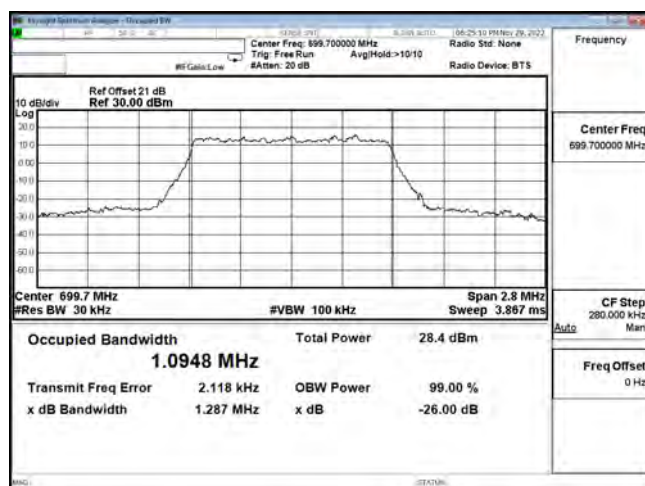


OCC B7 20 M CH21350 64QAM

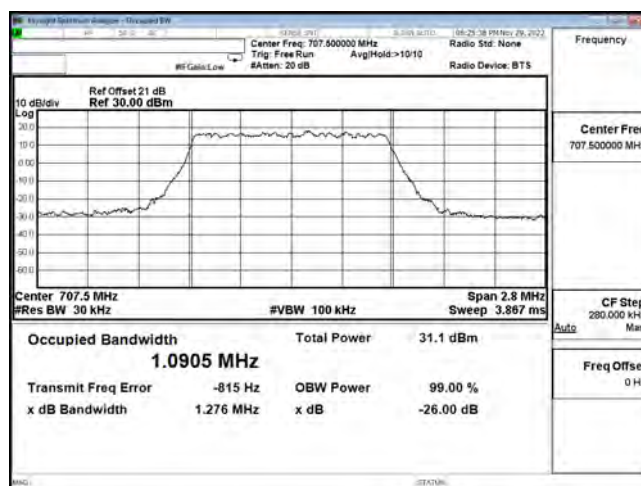
LTE Band 12



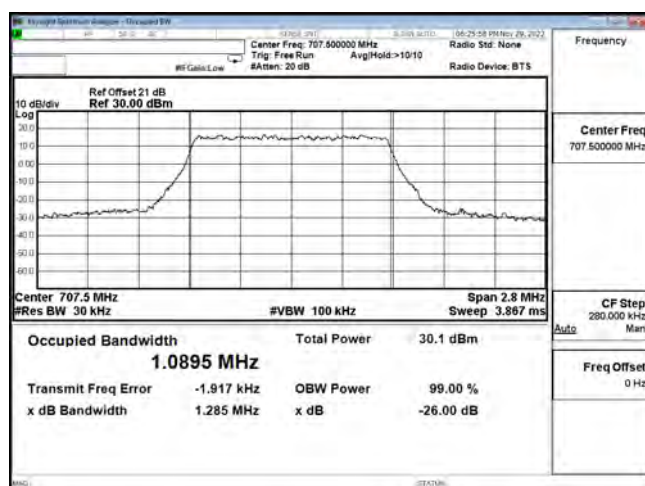
OCC B12 1.4 M CH23017 QPSK



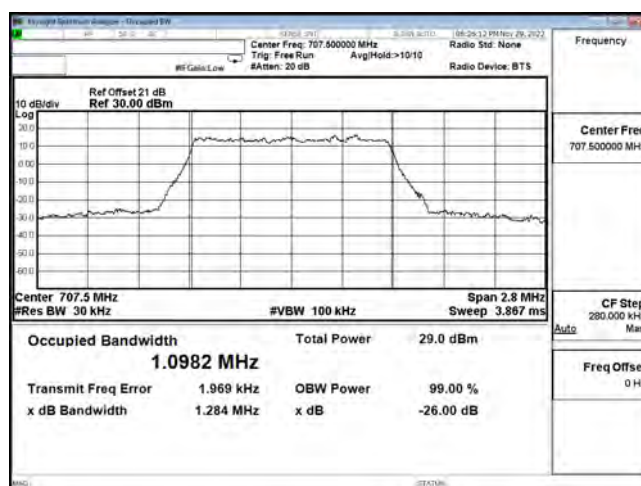
OCC B12 1.4 M CH23017 16QAM



OCC B12 1.4 M CH23017 64QAM

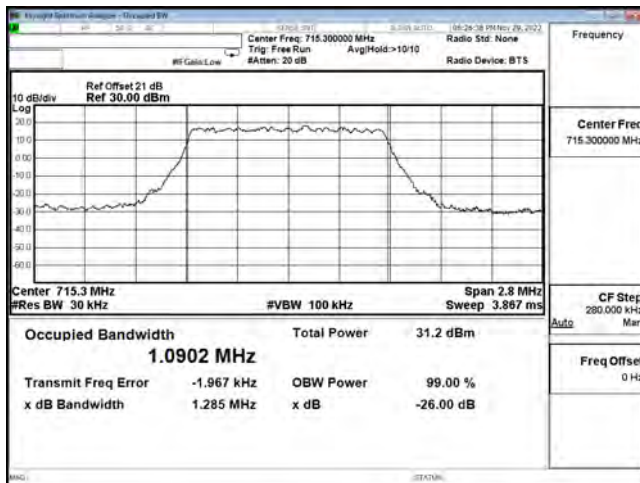


OCC B12 1.4 M CH23095 QPSK

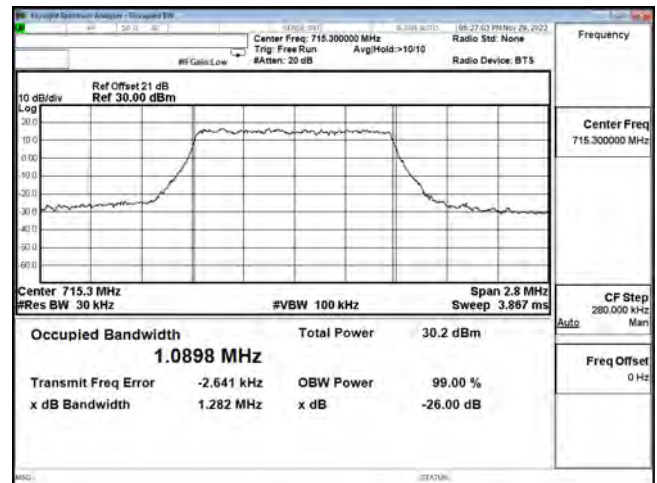


OCC B12 1.4 M CH23095 16QAM

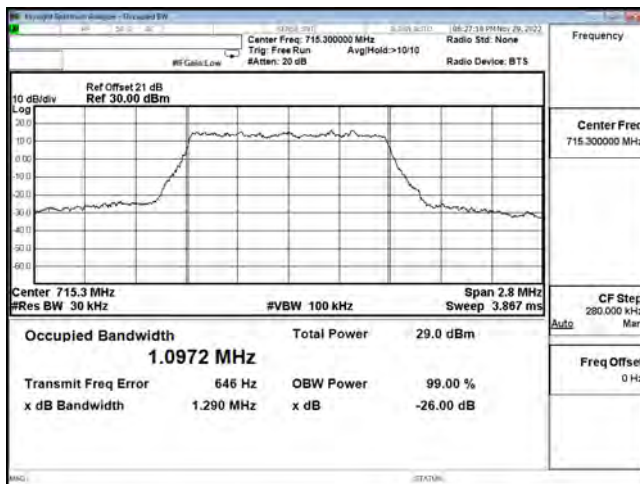
OCC B12 1.4 M CH23095 64QAM



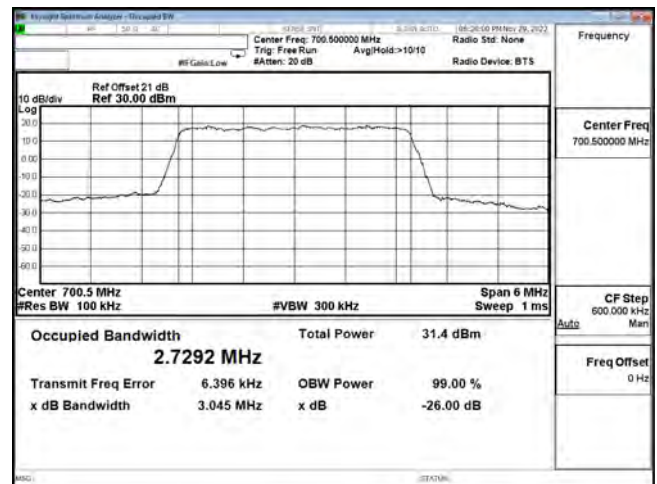
OCC B12 1.4 M CH23173 QPSK



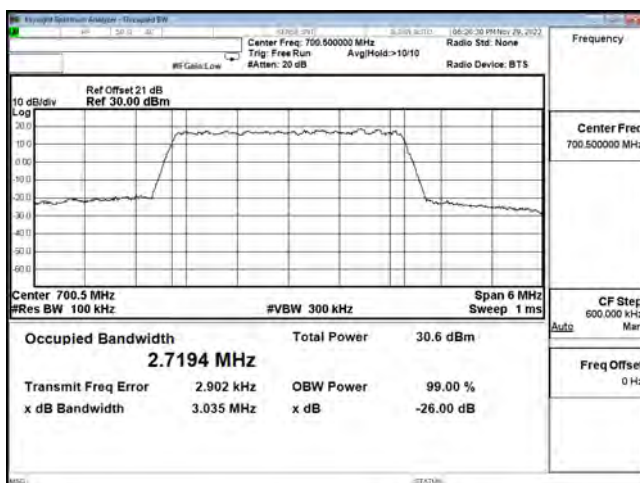
OCC B12 1.4 M CH23173 16QAM



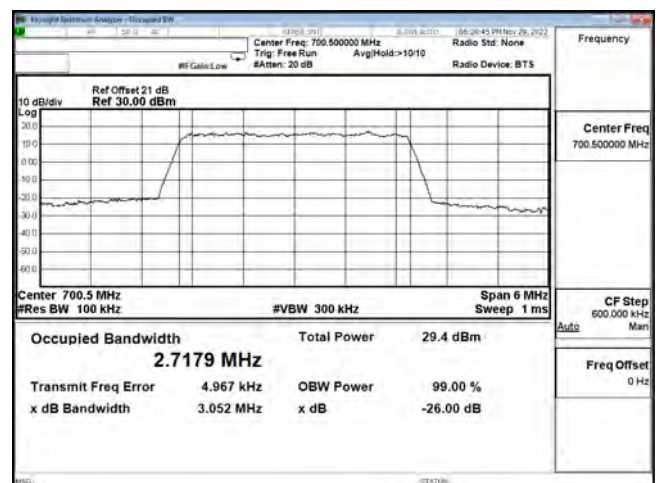
OCC B12 1.4 M CH23173 64QAM



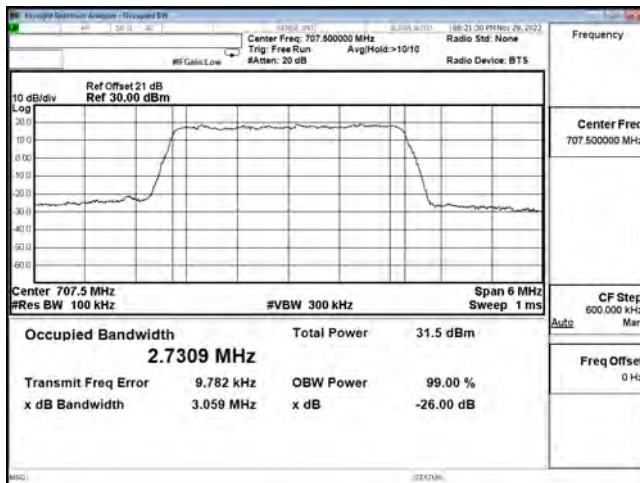
OCC B12 3 M CH23025 QPSK



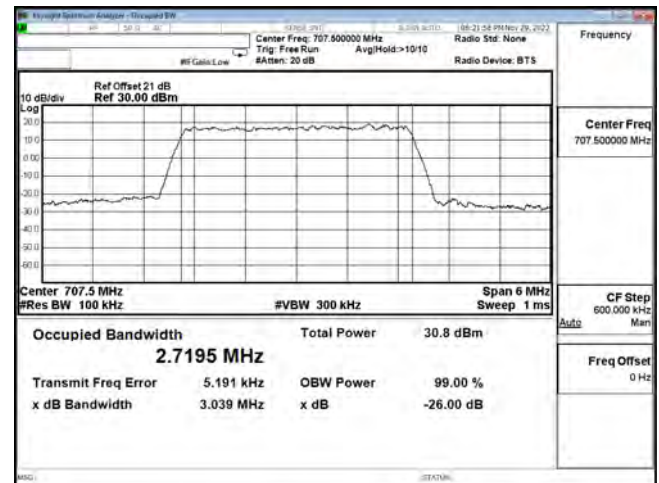
OCC B12 3 M CH23025 16QAM



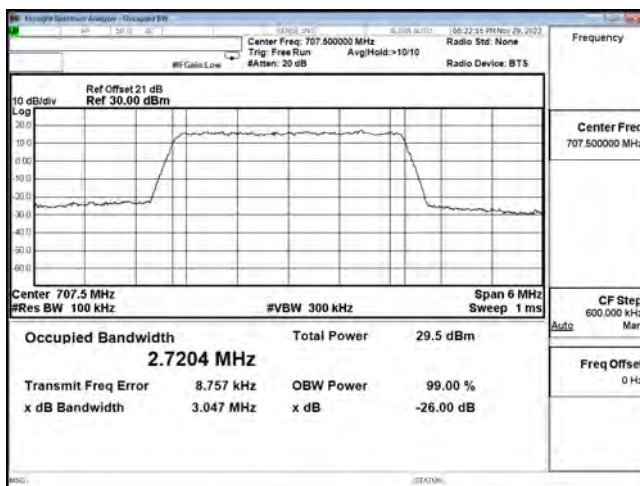
OCC B12 3 M CH23025 64QAM



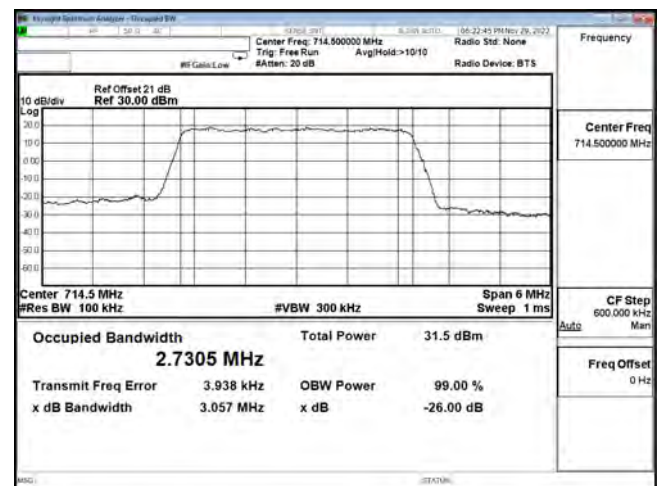
OCC B12 3 M CH23095 QPSK



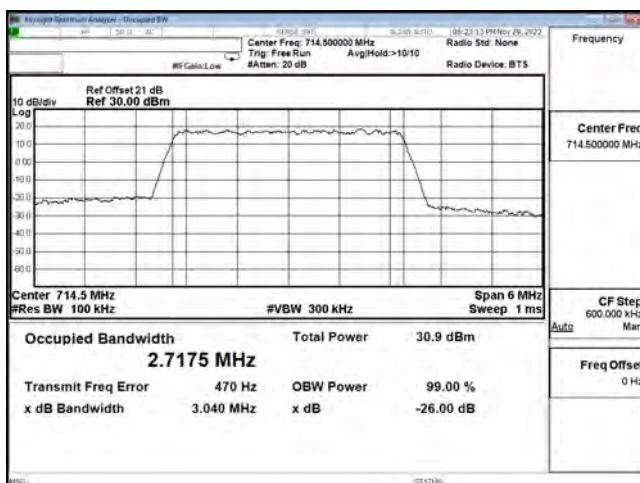
OCC B12 3 M CH23095 16QAM



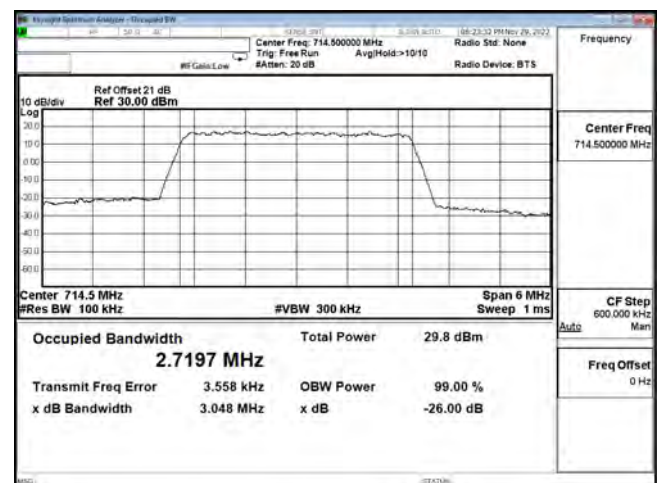
OCC B12 3 M CH23095 64QAM



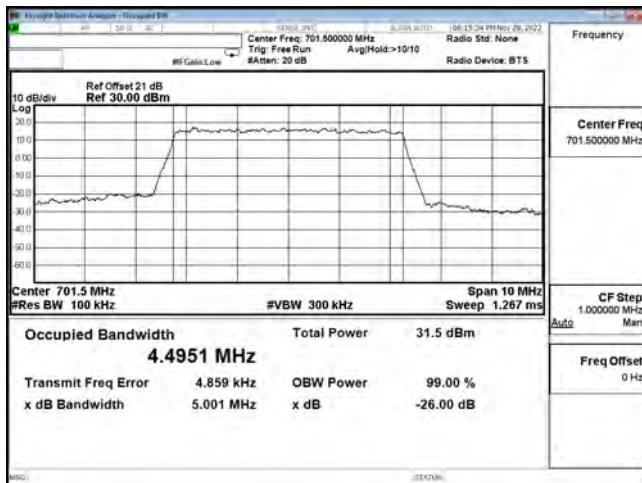
OCC B12 3 M CH23165 QPSK



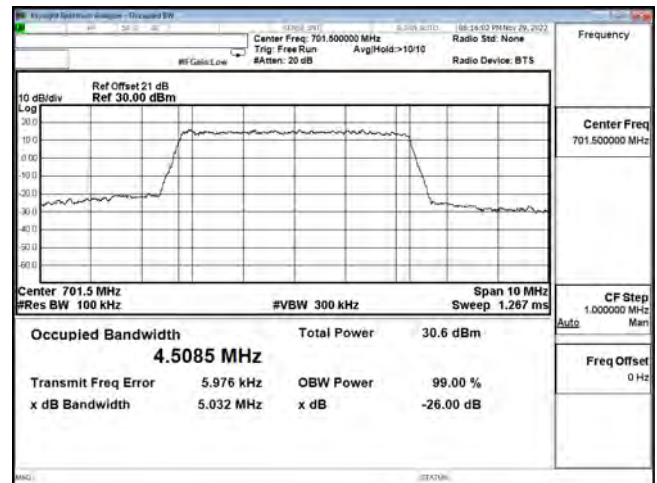
OCC B12 3 M CH23165 16QAM



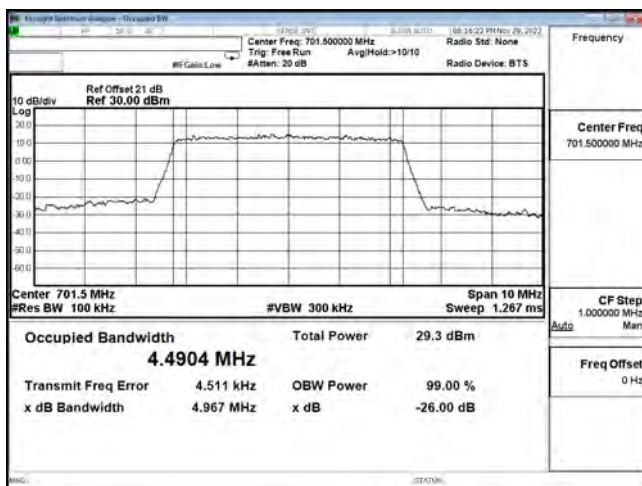
OCC B12 3 M CH23165 64QAM



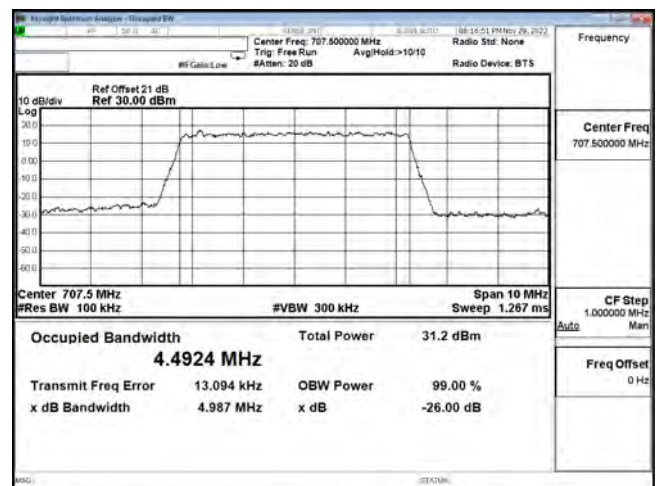
OCC B12 5 M CH23035 QPSK



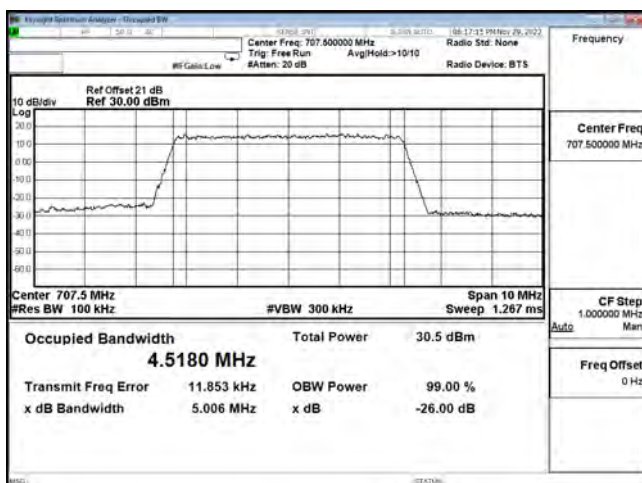
OCC B12 5 M CH23035 16QAM



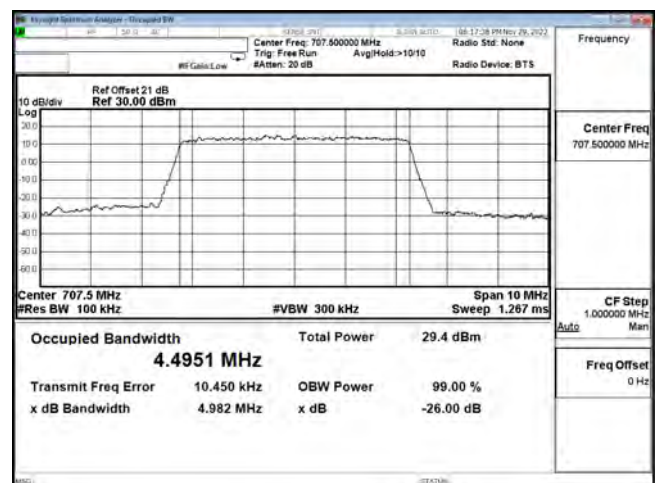
OCC B12 5 M CH23035 64QAM



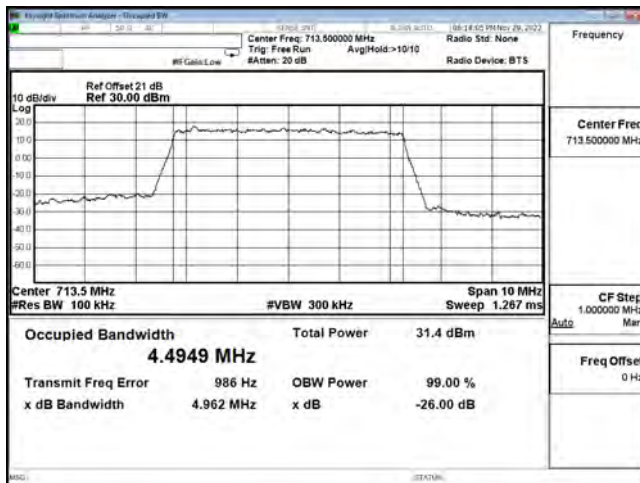
OCC B12 5 M CH23095 QPSK



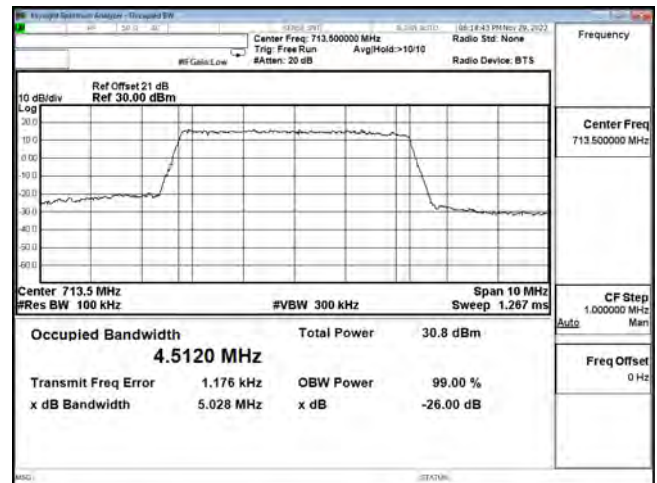
OCC B12 5 M CH23095 16QAM



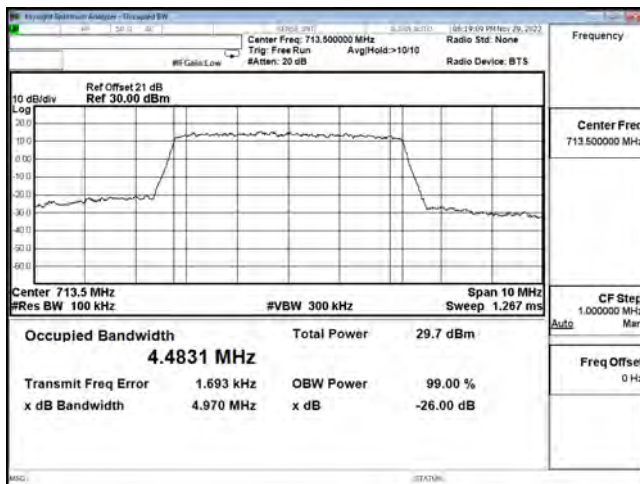
OCC B12 5 M CH23095 64QAM



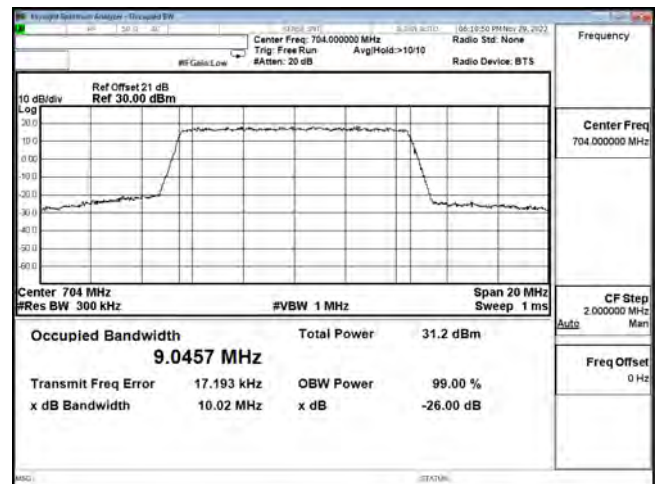
OCC B12 5 M CH23155 QPSK



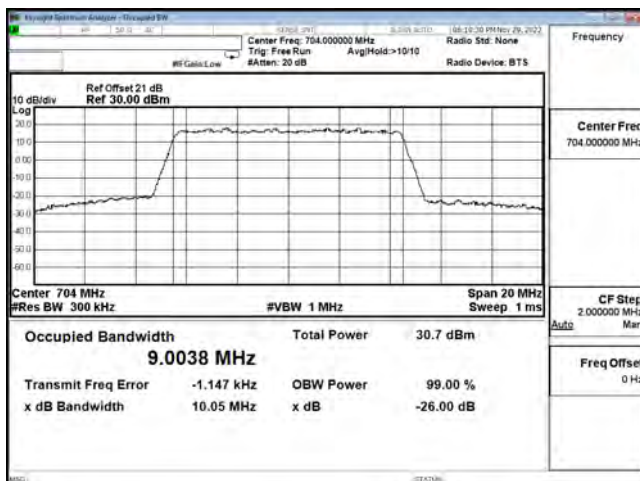
OCC B12 5 M CH23155 16QAM



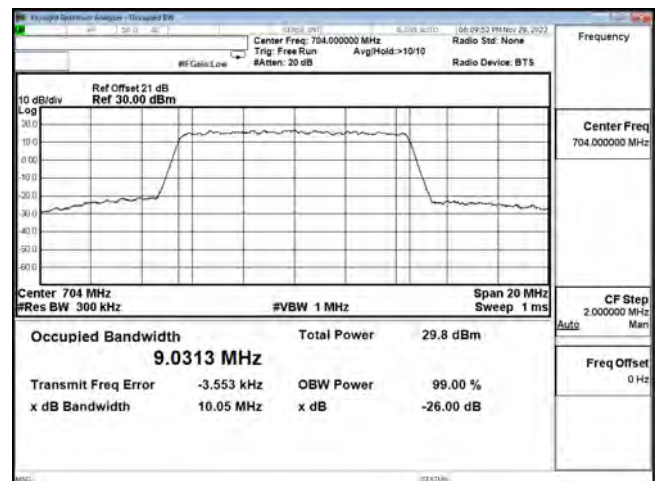
OCC B12 5 M CH23155 64QAM



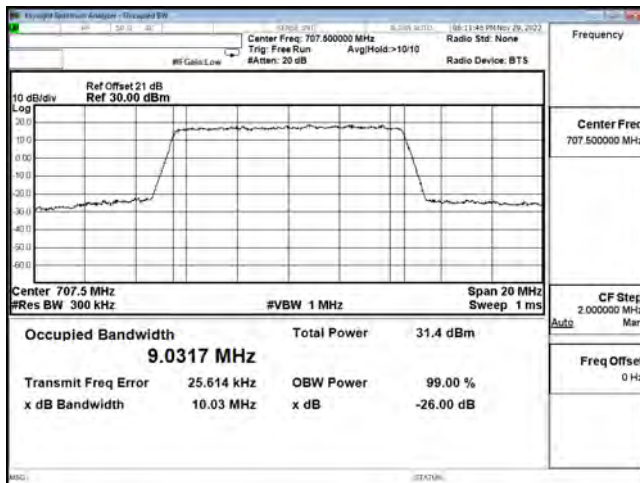
OCC B12 10 M CH23060 QPSK



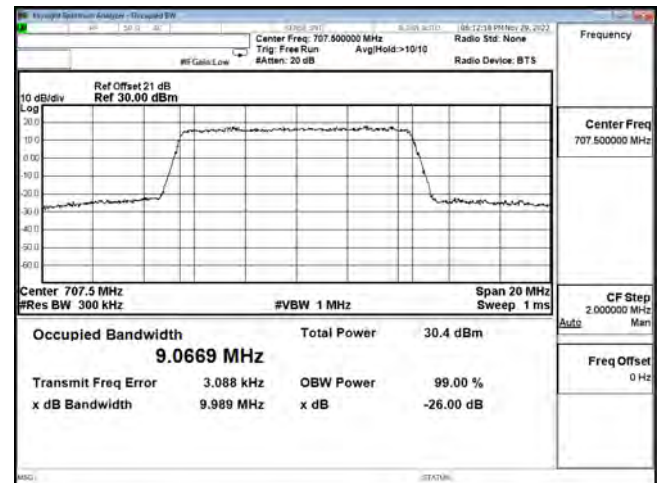
OCC B12 10 M CH23060 16QAM



OCC B12 10 M CH23060 64QAM



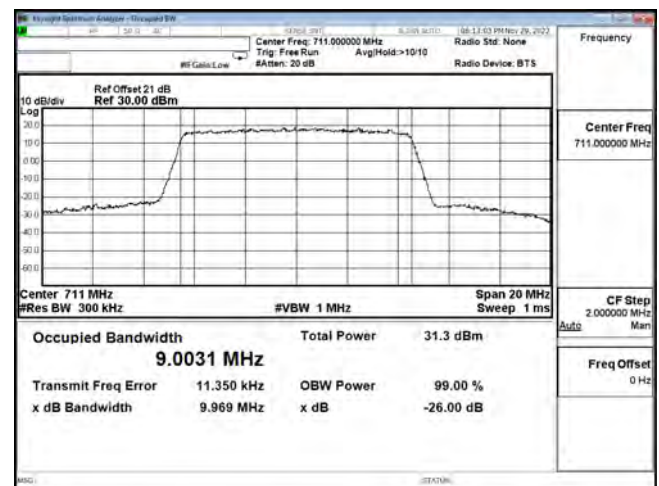
OCC B12 10 M CH23095 QPSK



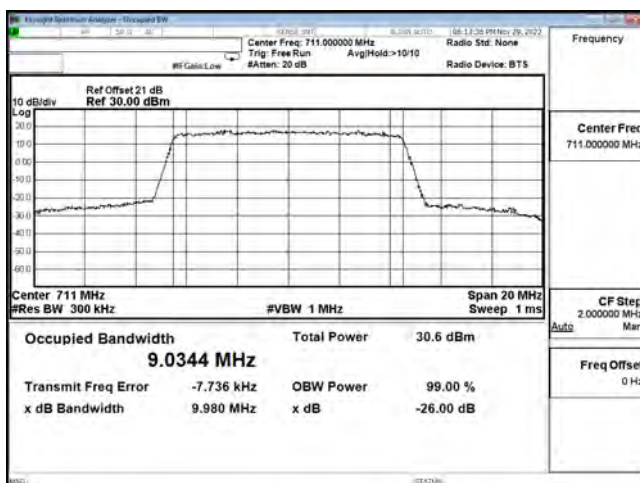
OCC B12 10 M CH23095 16QAM



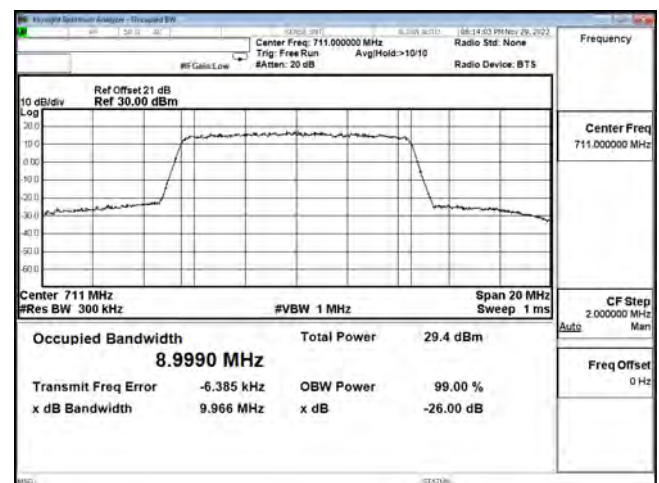
OCC B12 10 M CH23095 64QAM



OCC B12 10 M CH23130 QPSK

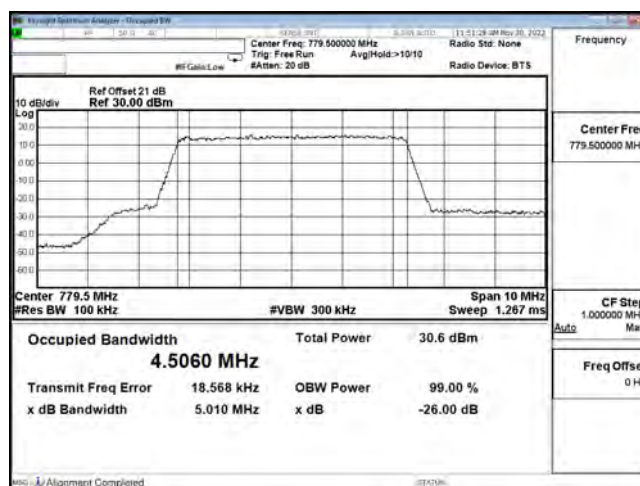
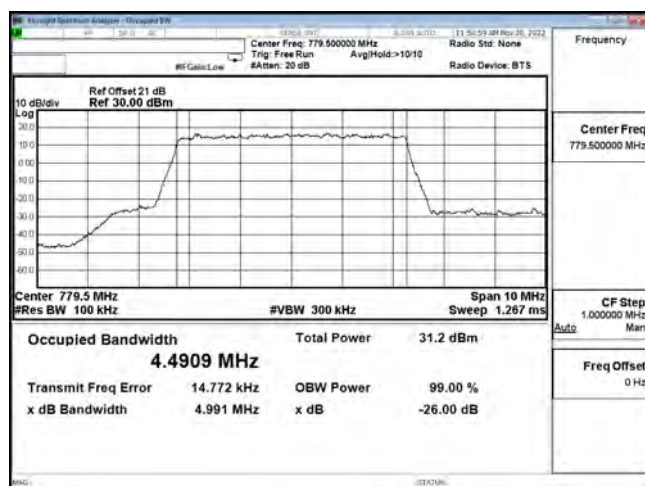


OCC B12 10 M CH23130 16QAM

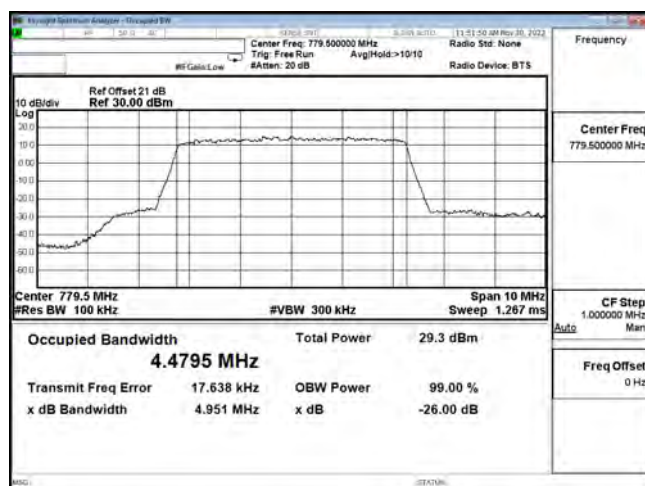


OCC B12 10 M CH23130 64QAM

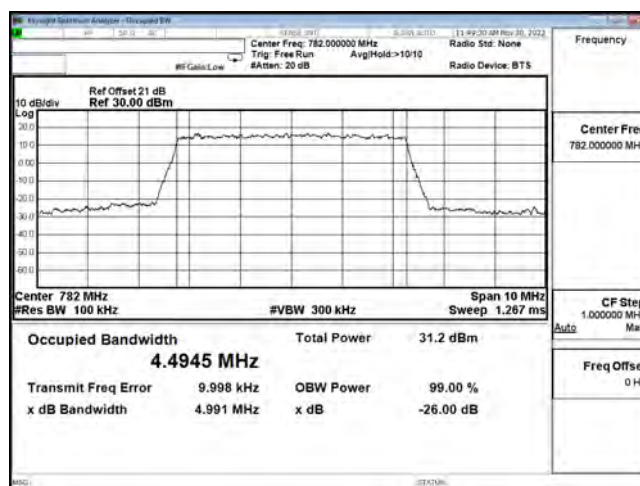
LTE Band 13



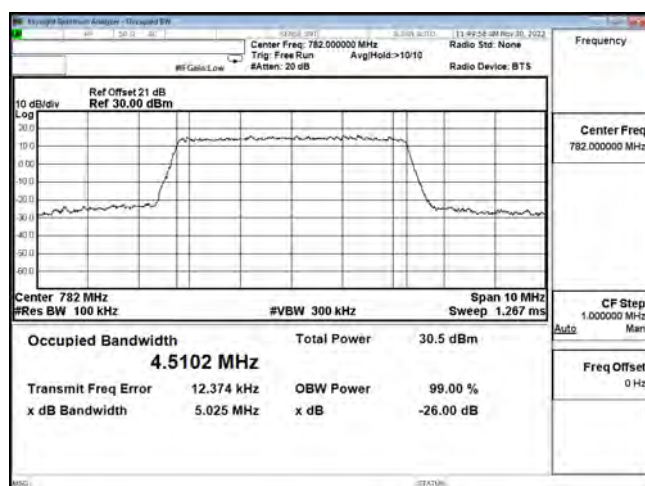
OCC B13 5 M CH23205 QPSK



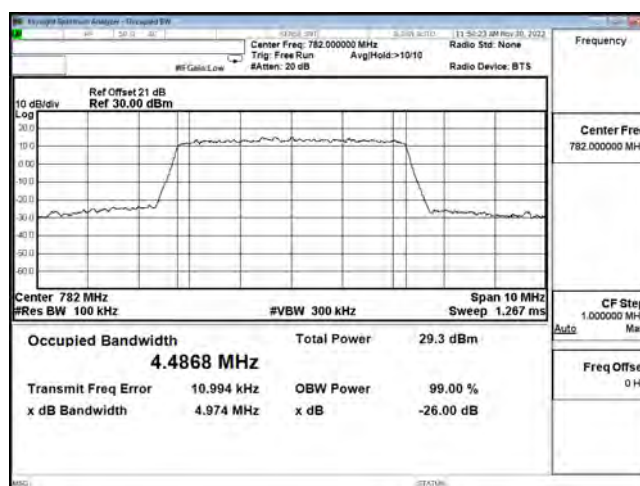
OCC B13 5 M CH23205 16QAM



OCC B13 5 M CH23205 64QAM

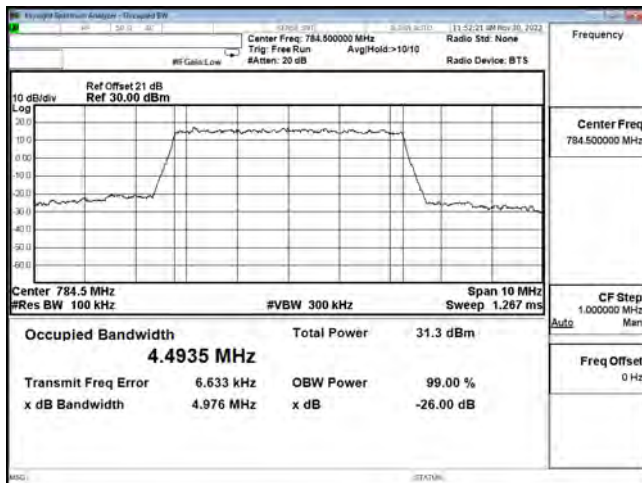


OCC B13 5 M CH23230 QPSK

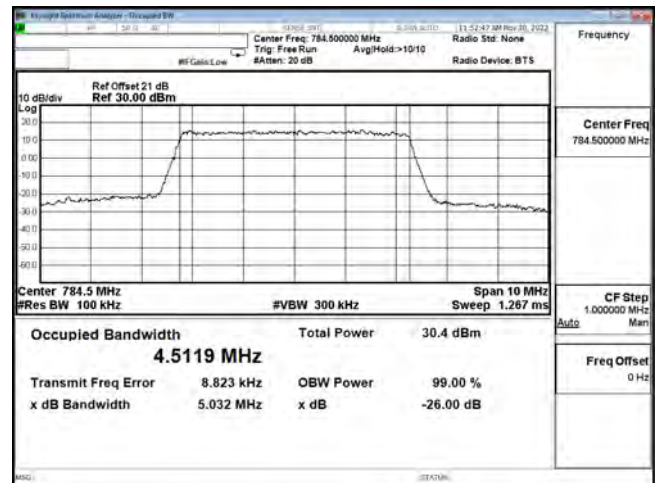


OCC B13 5 M CH23230 16QAM

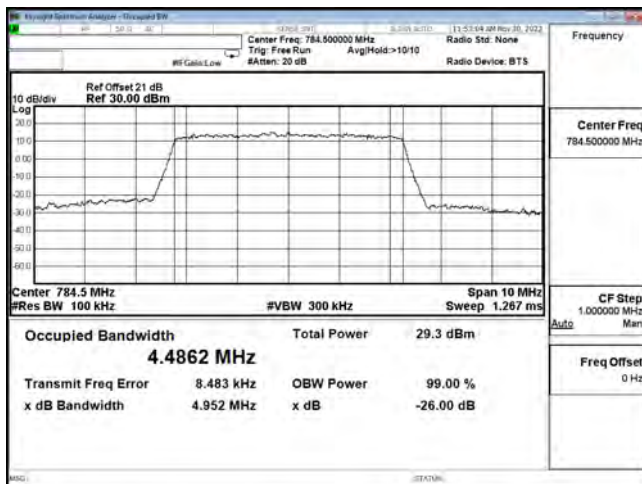
OCC B13 5 M CH23230 64QAM



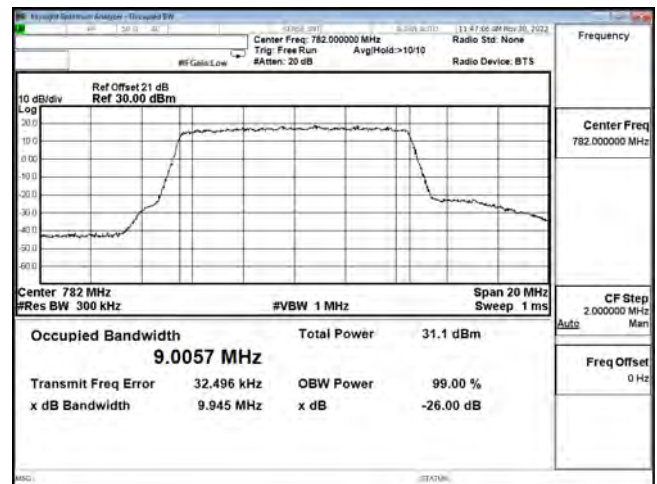
OCC B13 5 M CH23255 QPSK



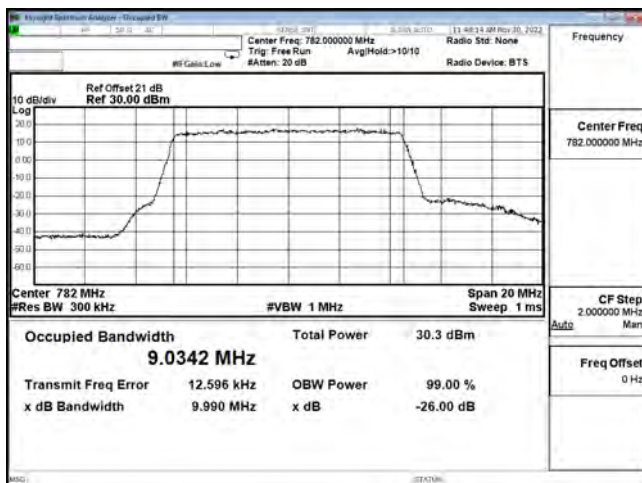
OCC B13 5 M CH23255 16QAM



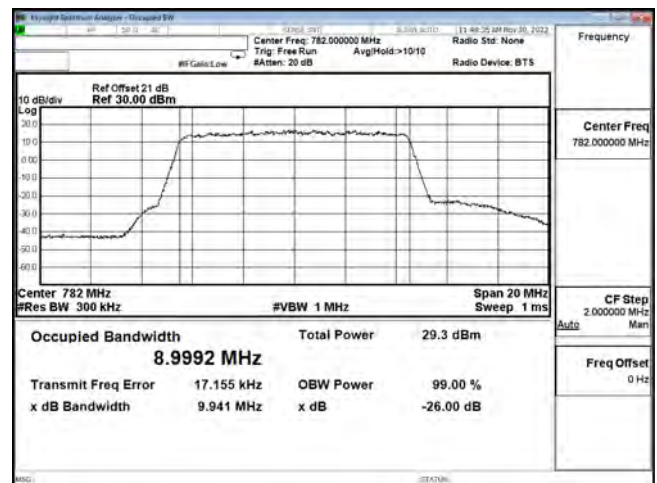
OCC B13 5 M CH23255 64QAM



OCC B13 10 M CH23230 QPSK

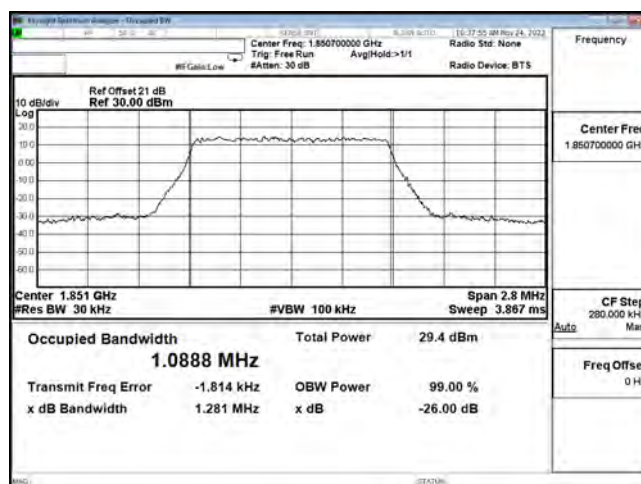
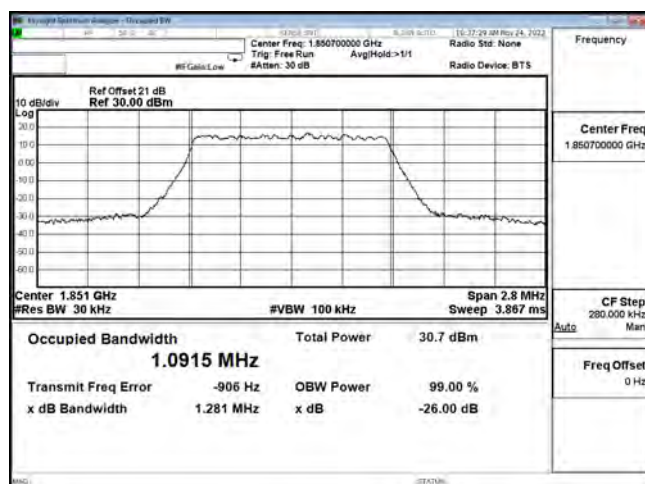


OCC B13 10 M CH23230 16QAM



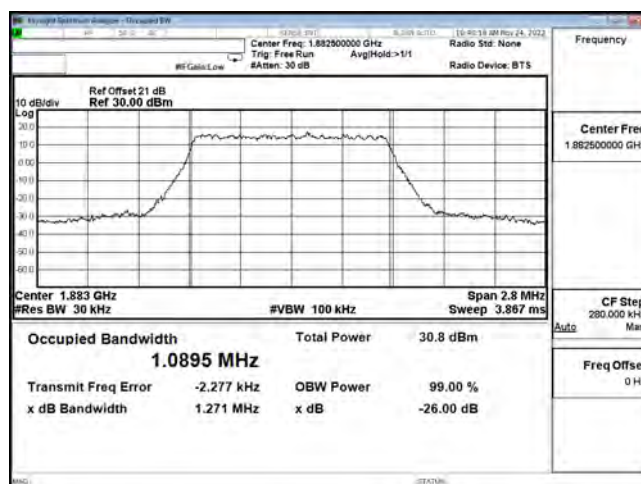
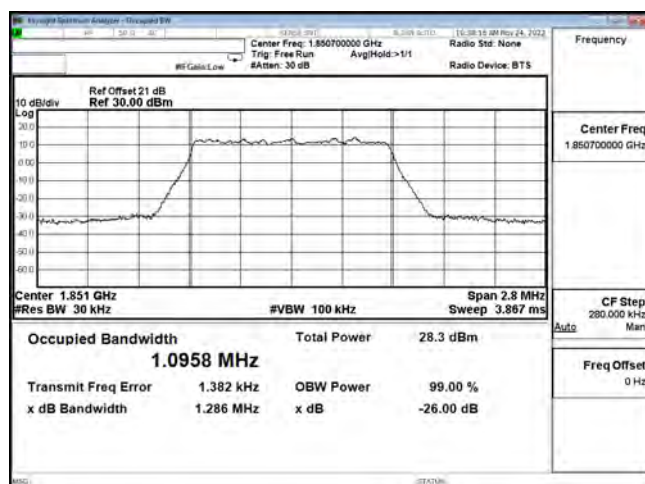
OCC B13 10 M CH23230 64QAM

LTE Band 25



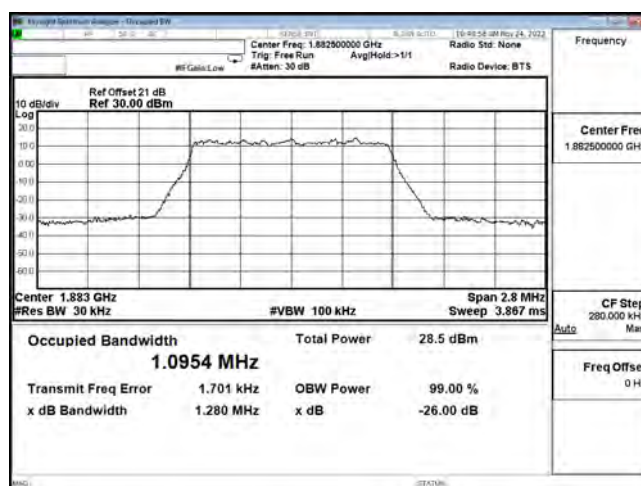
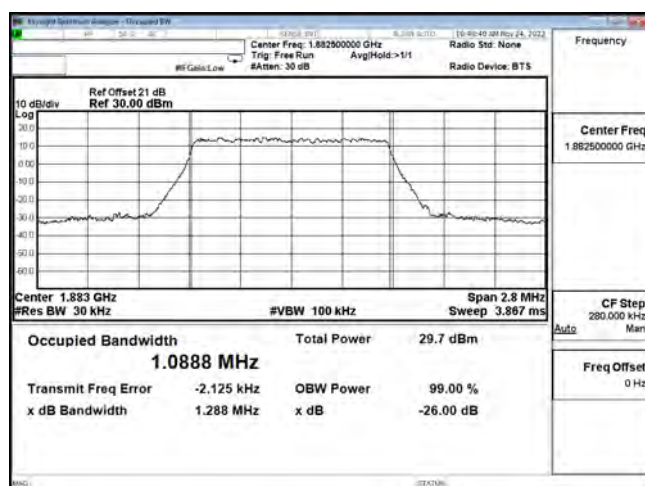
OCC B25 1.4 M CH26047 QPSK

OCC B25 1.4 M CH26047 16QAM



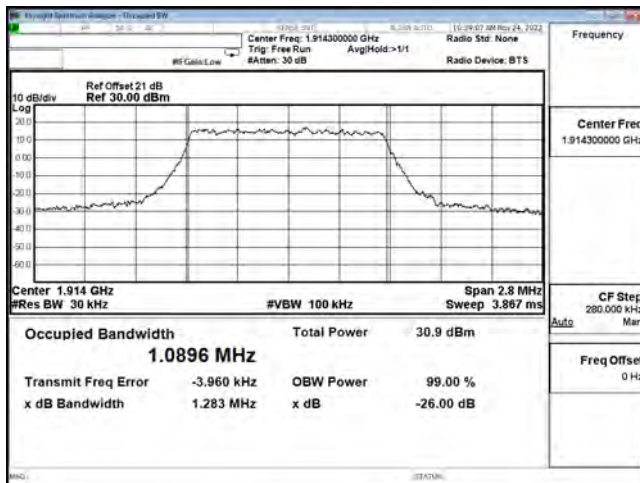
OCC B25 1.4 M CH26047 64QAM

OCC B25 1.4 M CH26365 QPSK

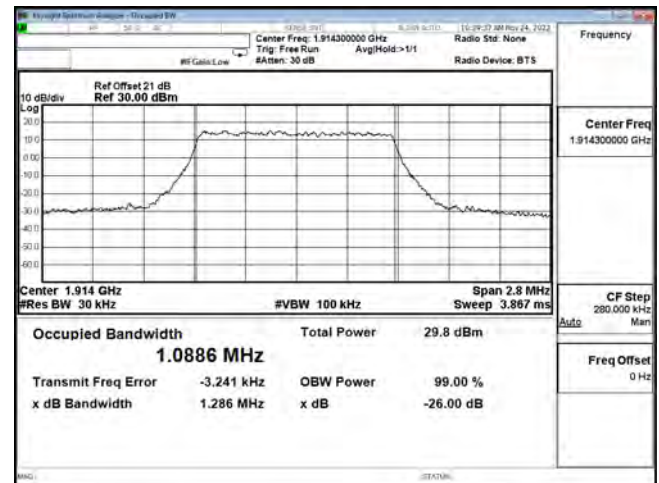


OCC B25 1.4 M CH26365 16QAM

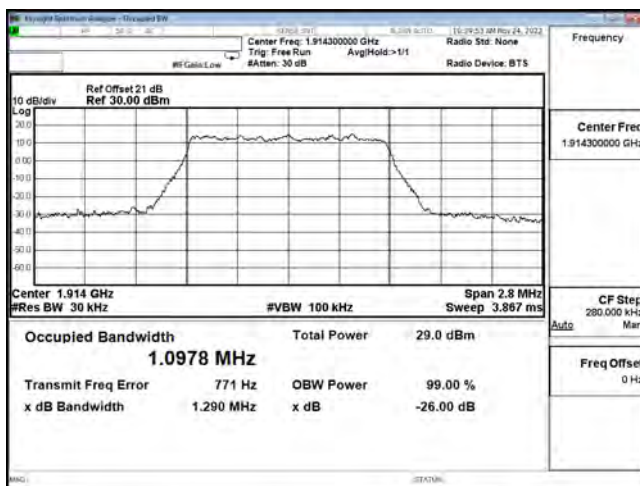
OCC B25 1.4 M CH26365 64QAM



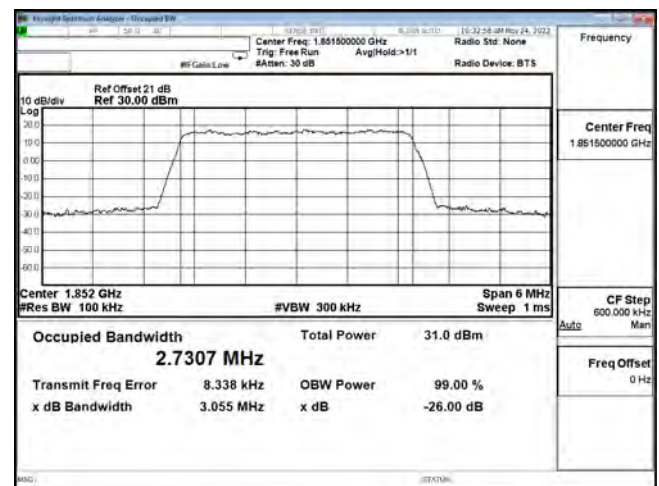
OCC B25 1.4 M CH26683 QPSK



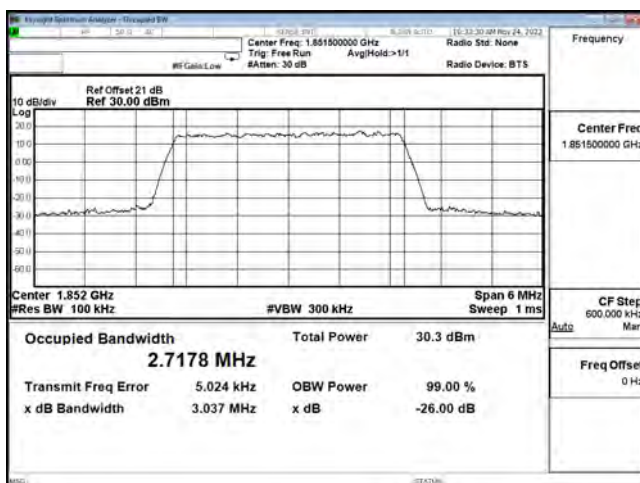
OCC B25 1.4 M CH26683 16QAM



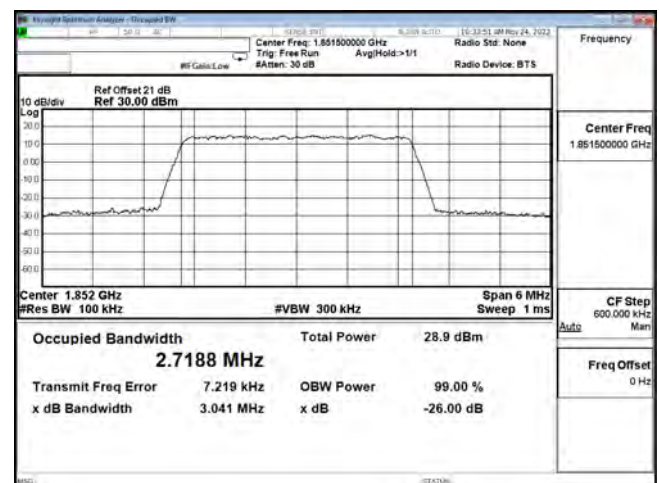
OCC B25 1.4 M CH26683 64QAM



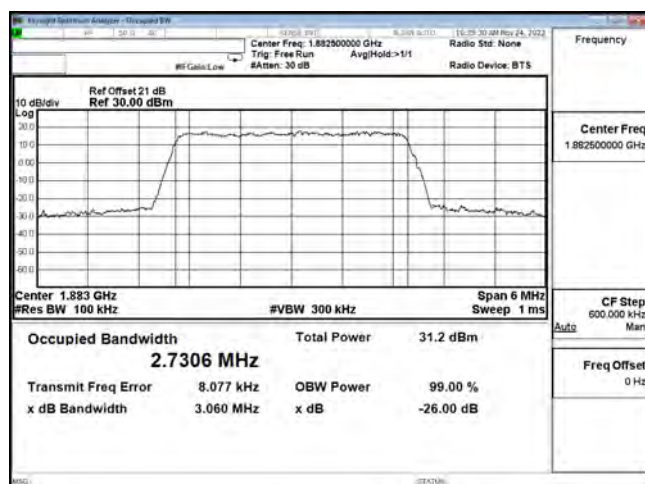
OCC B25 3 M CH26055 QPSK



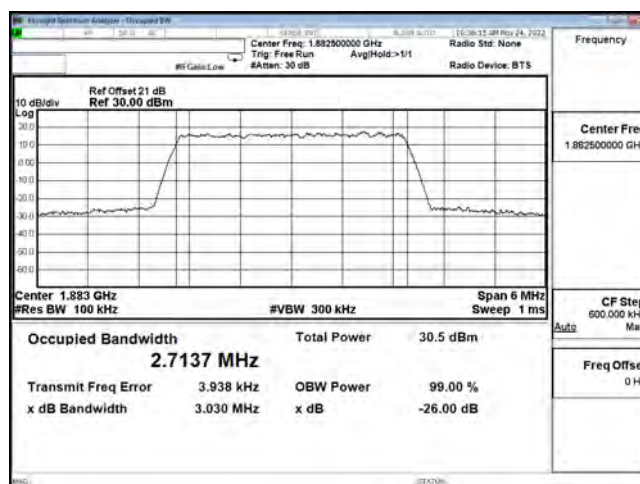
OCC B25 3 M CH26055 16QAM



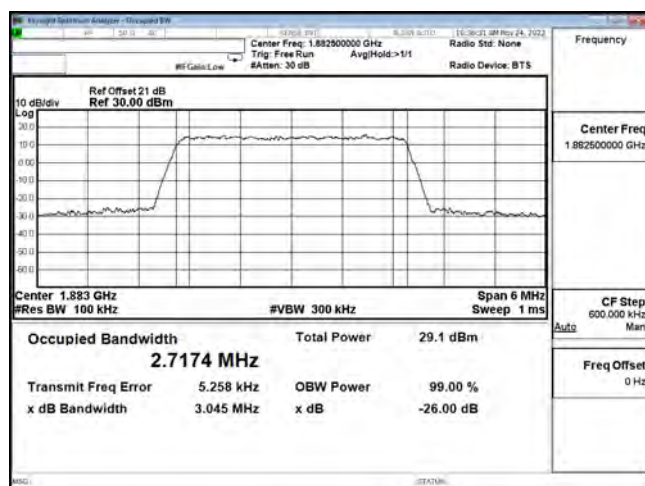
OCC B25 3 M CH26055 64QAM



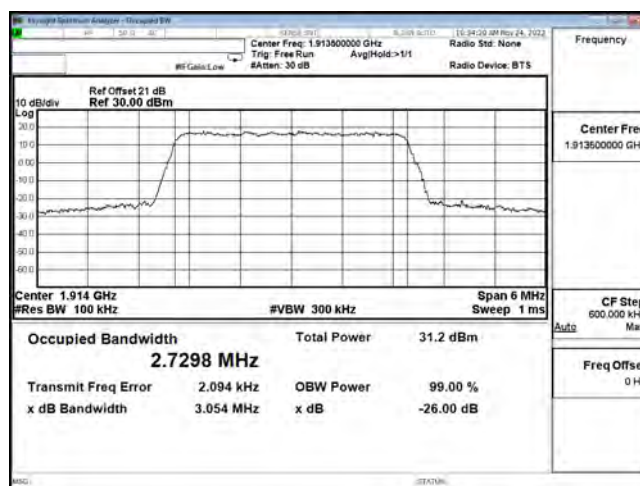
OCC B25 3 M CH26365 QPSK



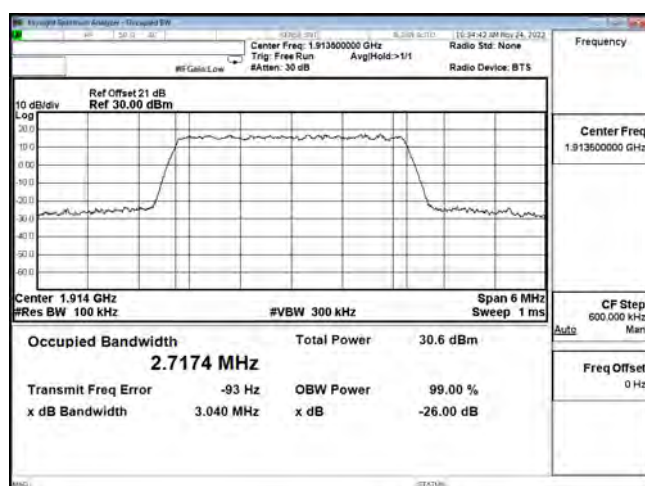
OCC B25 3 M CH26365 16QAM



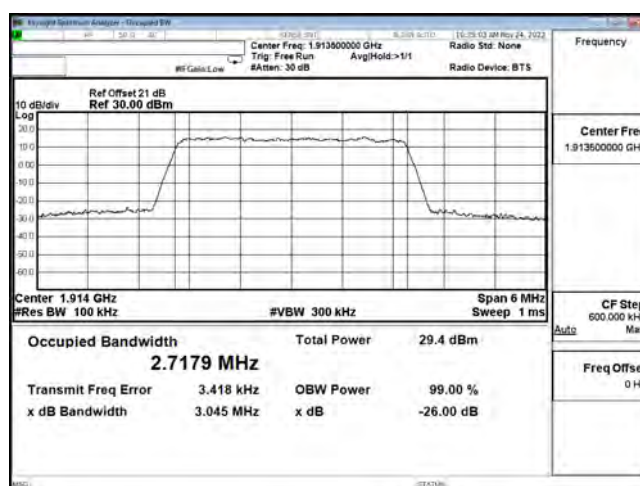
OCC B25 3 M CH26365 64QAM



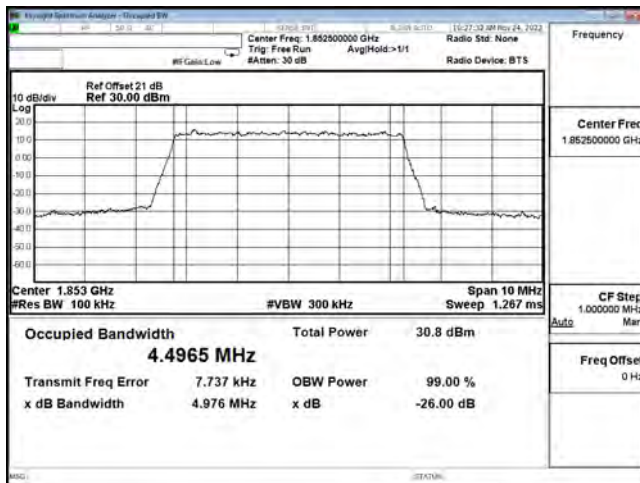
OCC B25 3 M CH26675 QPSK



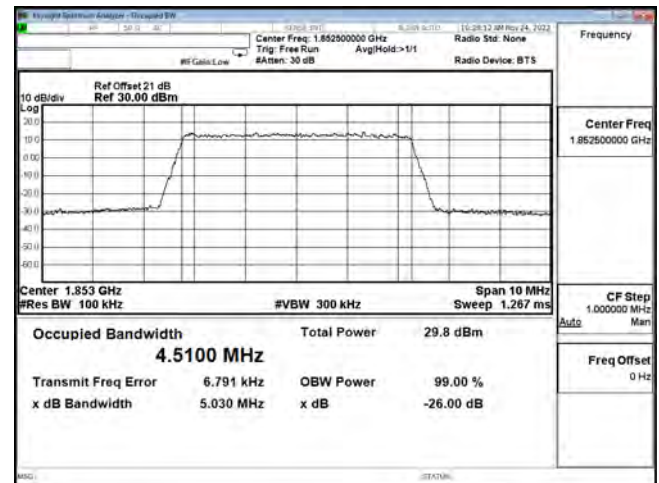
OCC B25 3 M CH26675 16QAM



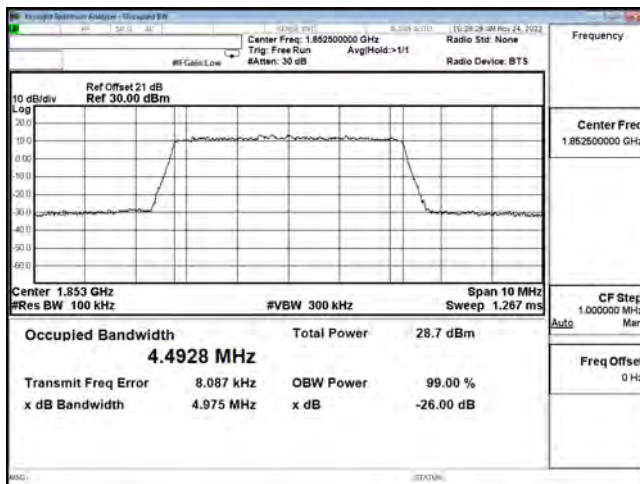
OCC B25 3 M CH26675 64QAM



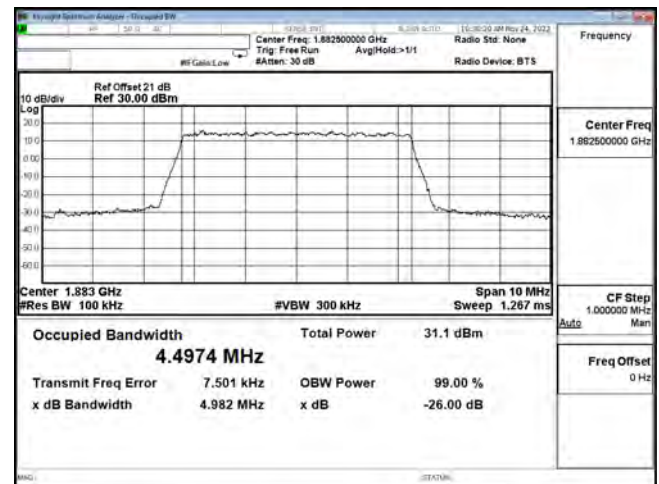
OCC B25 5 M CH26065 QPSK



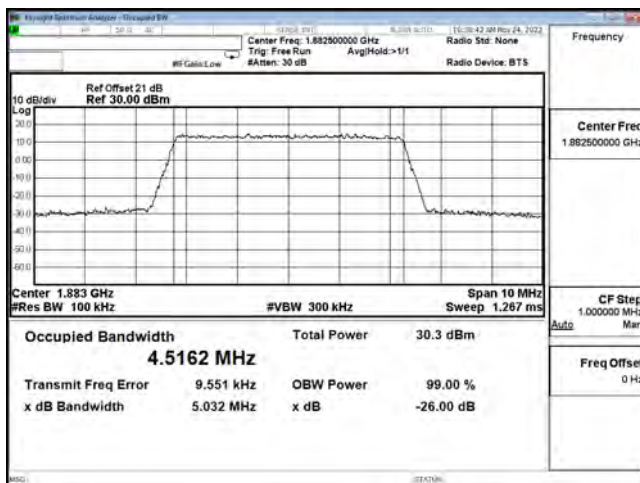
OCC B25 5 M CH26065 16QAM



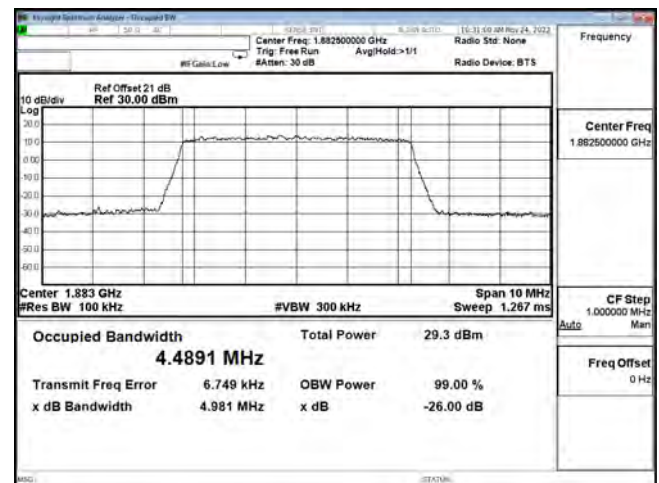
OCC B25 5 M CH26065 64QAM



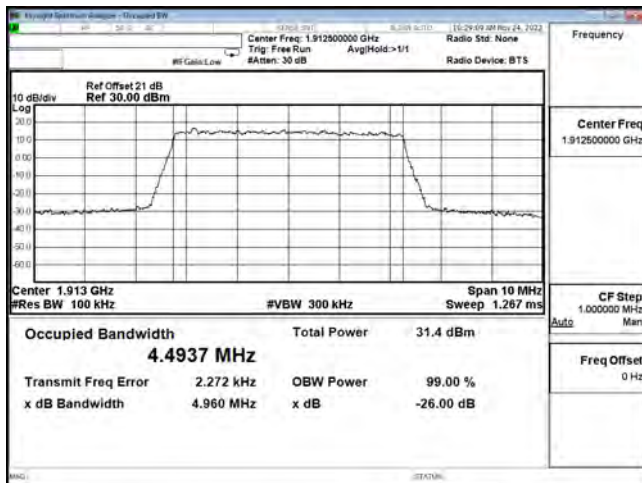
OCC B25 5 M CH26365 QPSK



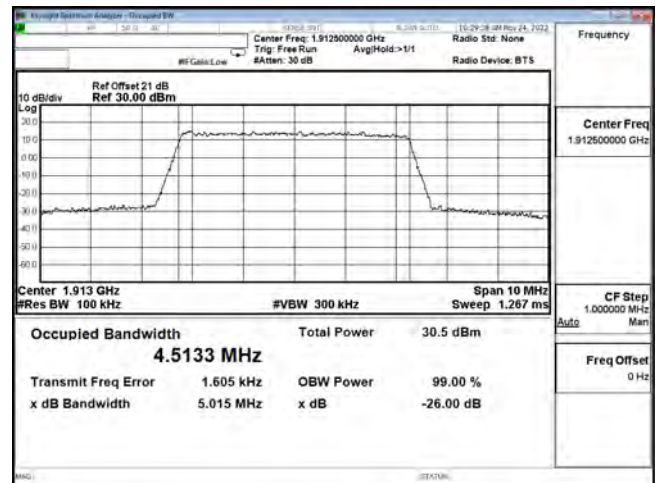
OCC B25 5 M CH26365 16QAM



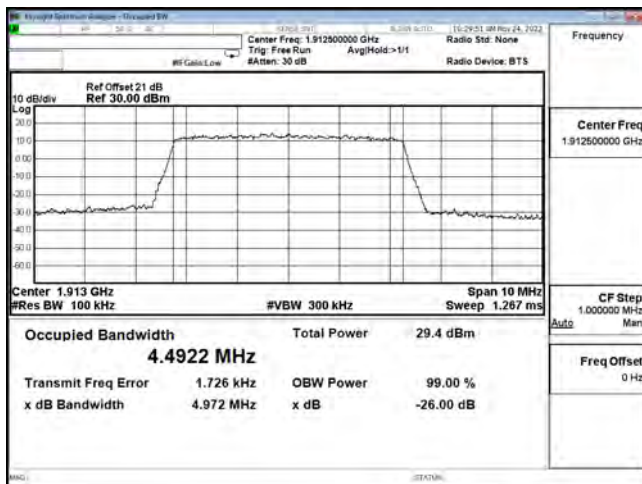
OCC B25 5 M CH26365 64QAM



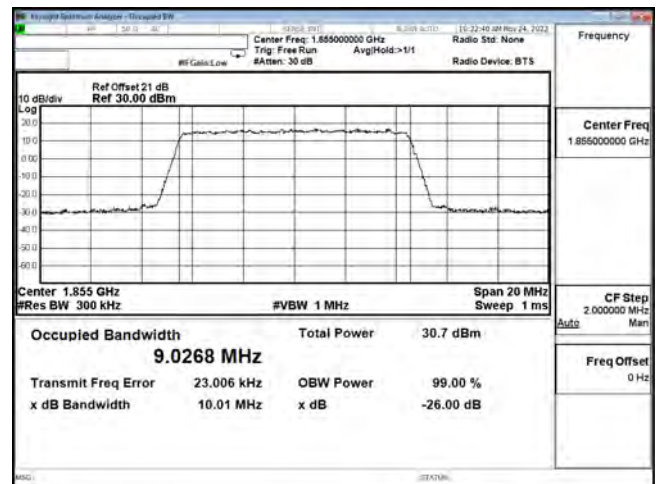
OCC B25 5 M CH26665 QPSK



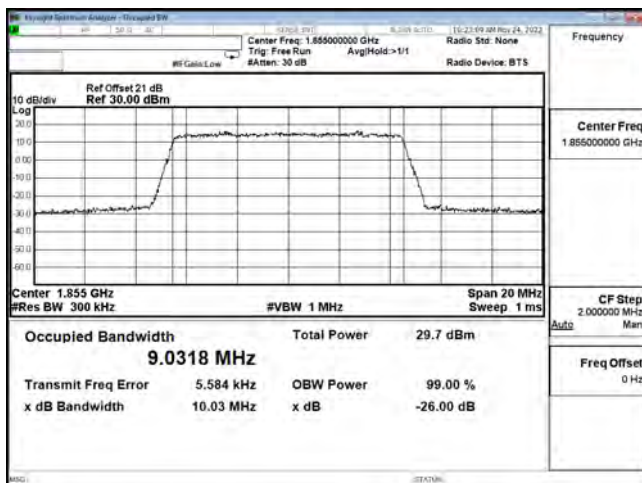
OCC B25 5 M CH26665 16QAM



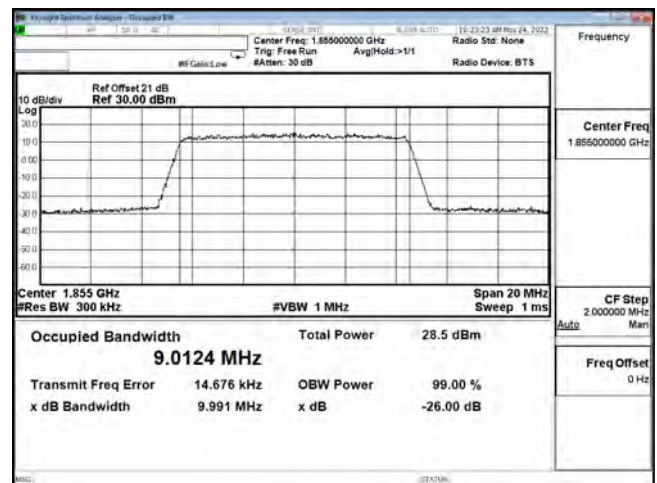
OCC B25 5 M CH26665 64QAM



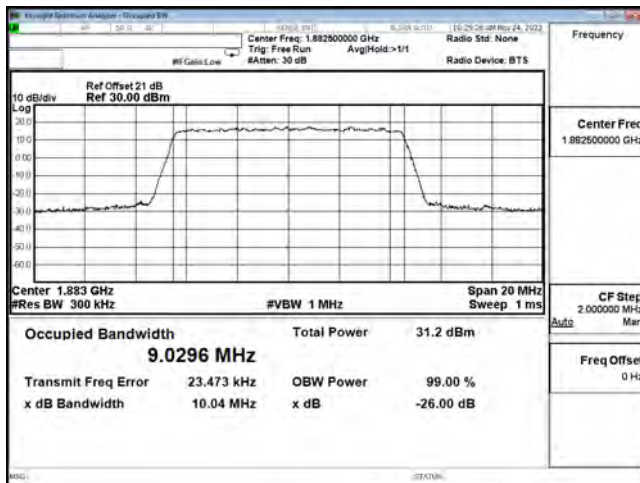
OCC B25 10 M CH26090 QPSK



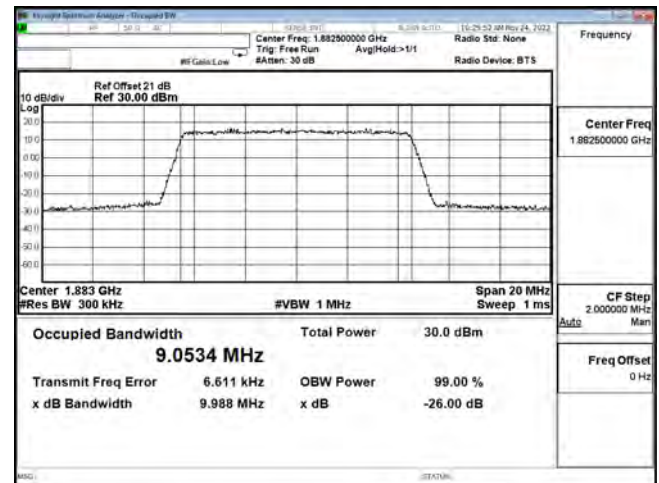
OCC B25 10 M CH26090 16QAM



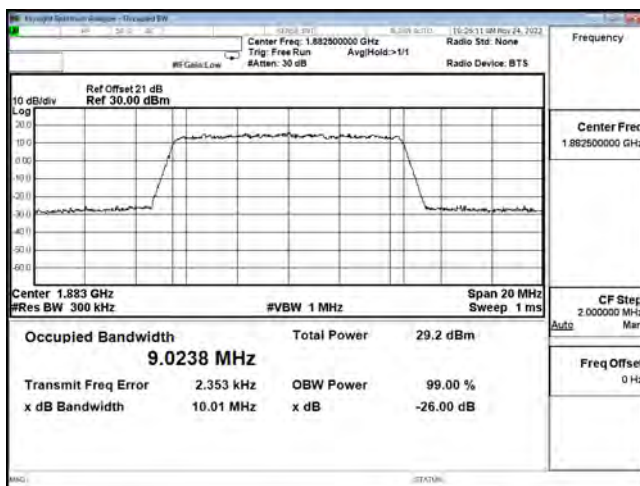
OCC B25 10 M CH26090 64QAM



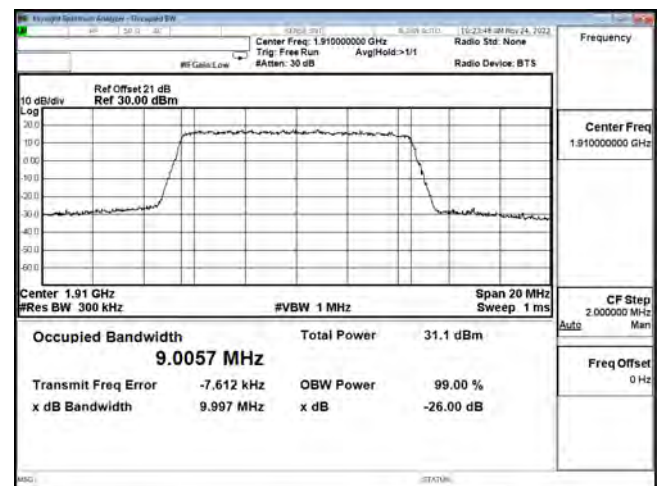
OCC B25 10 M CH26365 QPSK



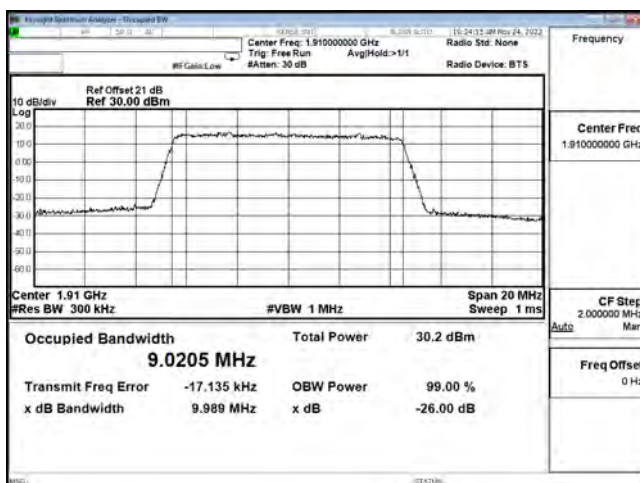
OCC B25 10 M CH26365 16QAM



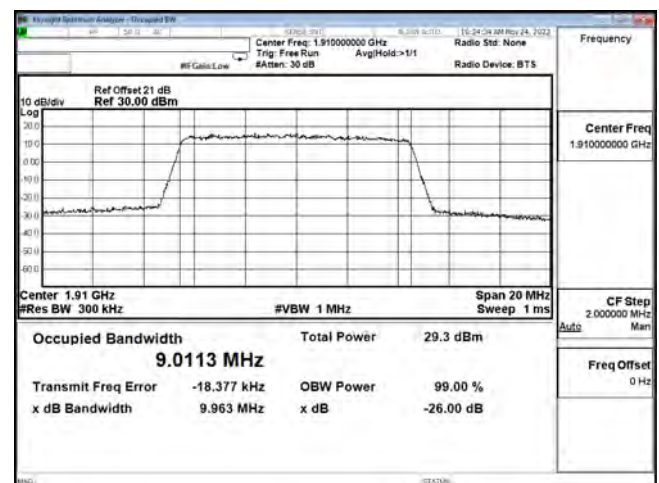
OCC B25 10 M CH26365 64QAM



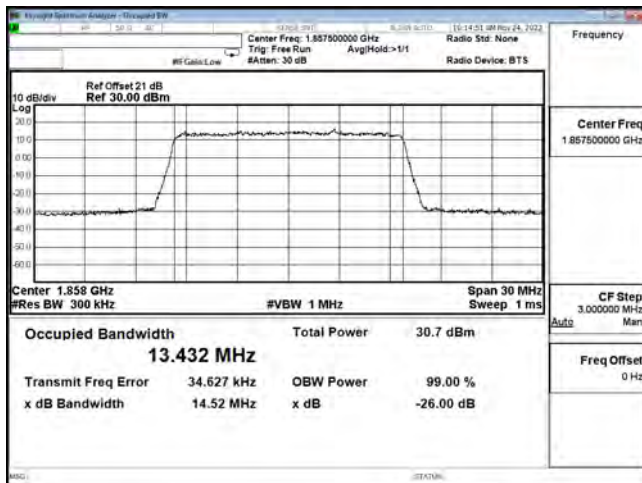
OCC B25 10 M CH26640 QPSK



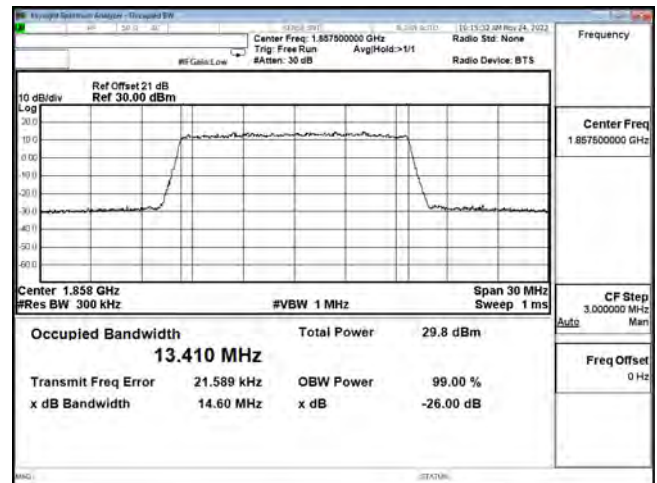
OCC B25 10 M CH26640 16QAM



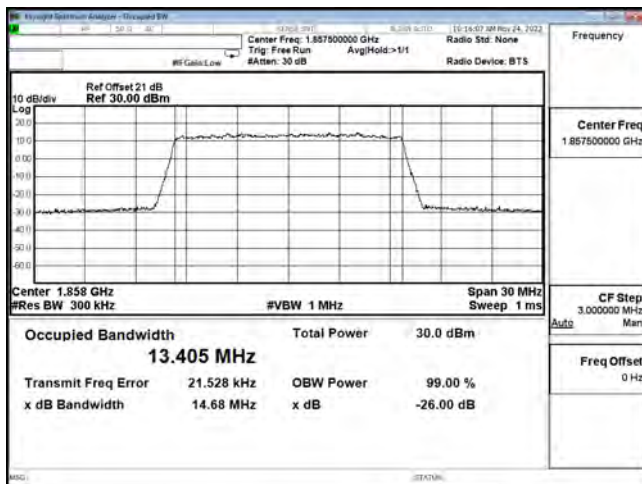
OCC B25 10 M CH26640 64QAM



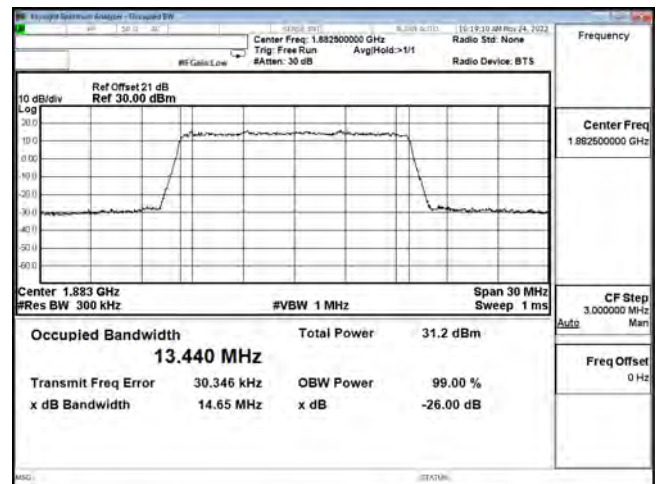
OCC B25 15 M CH26115 QPSK



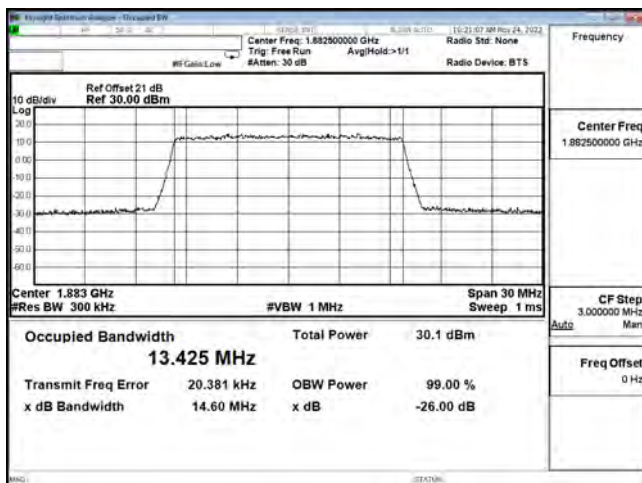
OCC B25 15 M CH26115 16QAM



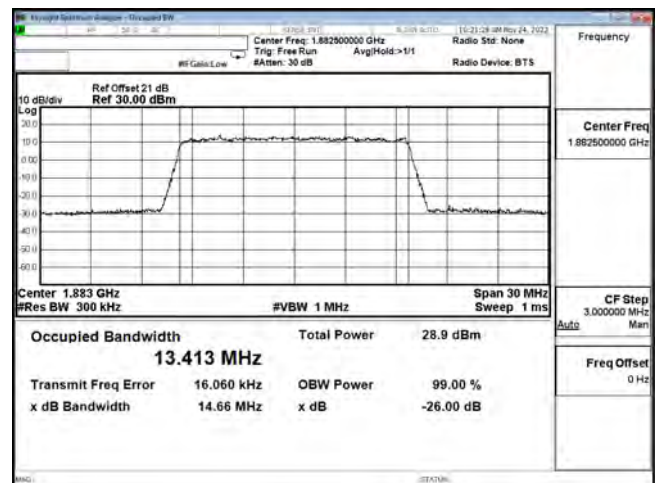
OCC B25 15 M CH26115 64QAM



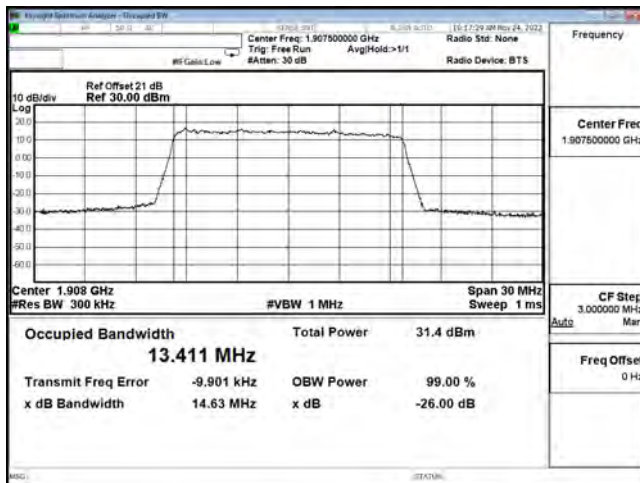
OCC B25 15 M CH26365 QPSK



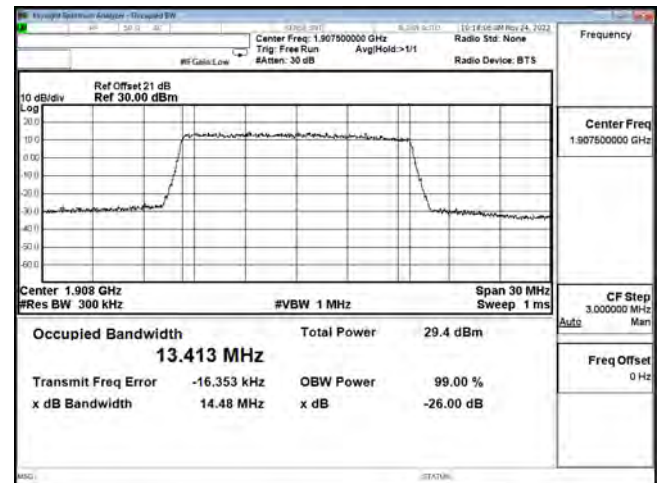
OCC B25 15 M CH26365 16QAM



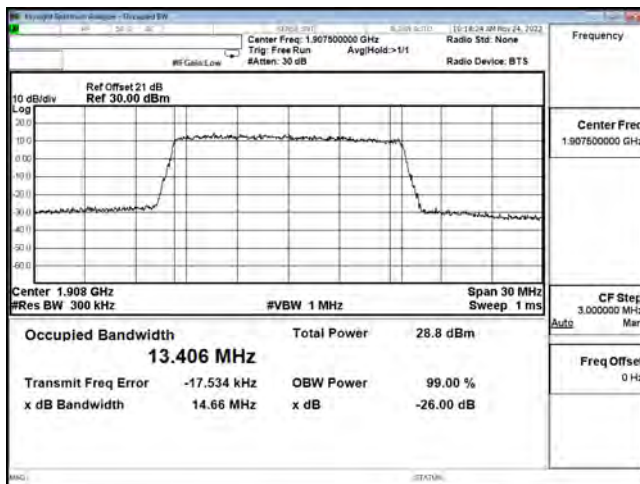
OCC B25 15 M CH26365 64QAM



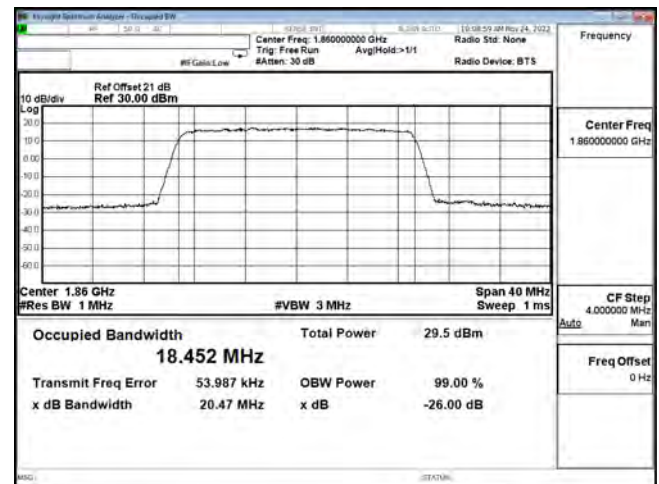
OCC B25 15 M CH26615 QPAK



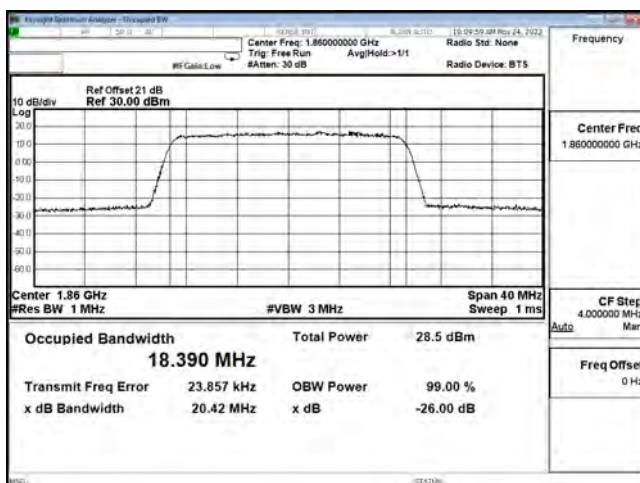
OCC B25 15 M CH26615 16QAM



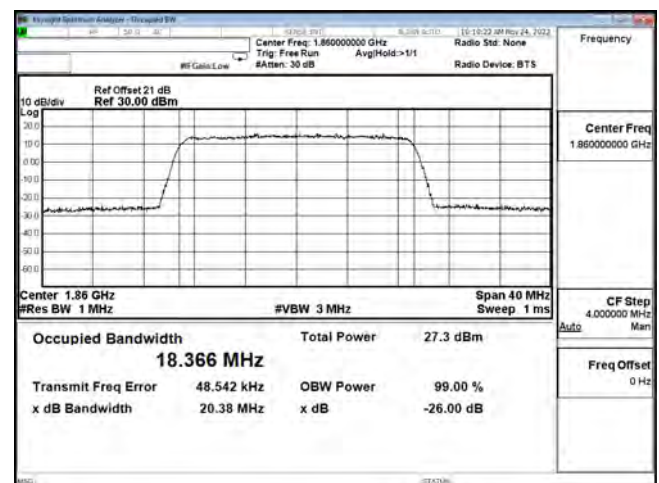
OCC B25 15 M CH26615 64QAM



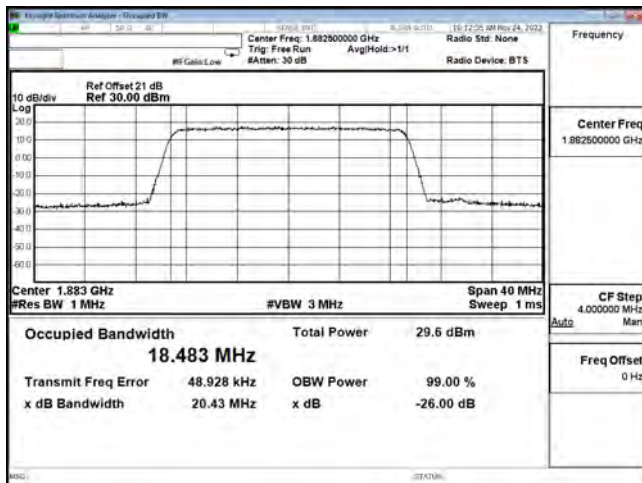
OCC B25 20 M CH26140 QPSK



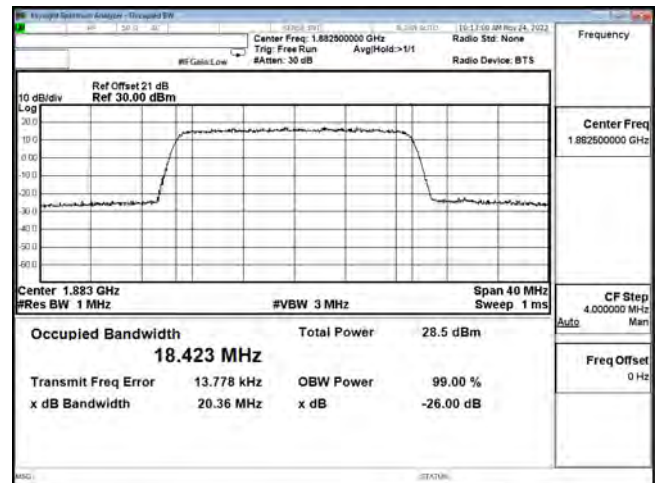
OCC B25 20 M CH26140 16QAM



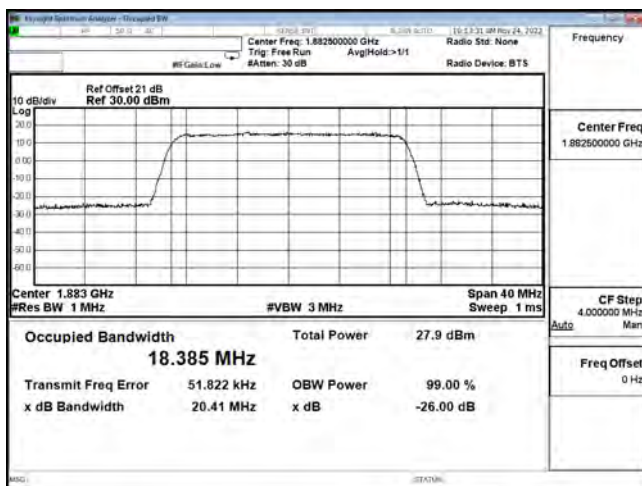
OCC B25 20 M CH26140 64QAM



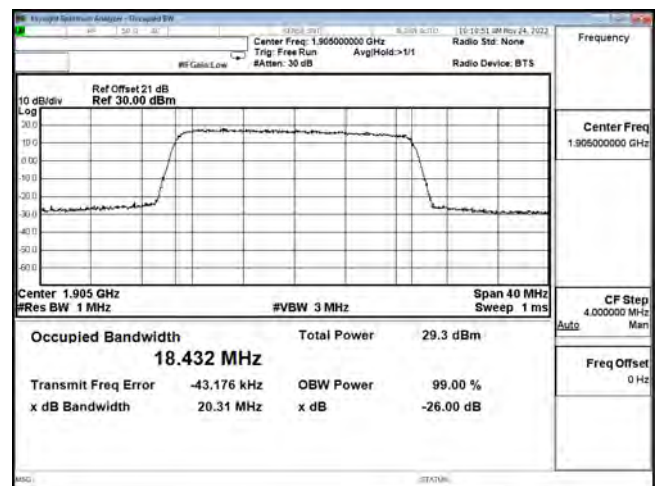
OCC B25 20 M CH26365 QPSK



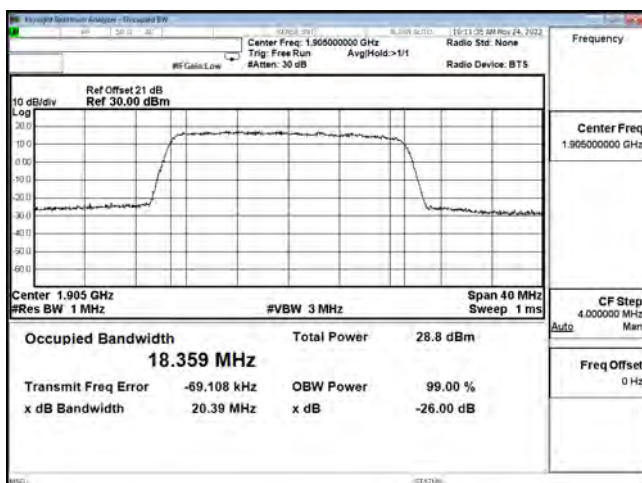
OCC B25 20 M CH26365 16QAM



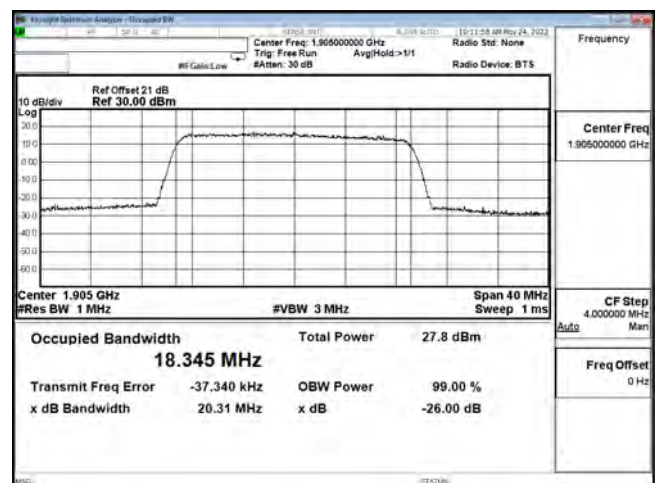
OCC B25 20 M CH26365 64QAM



OCC B25 20 M CH26590 16QAM

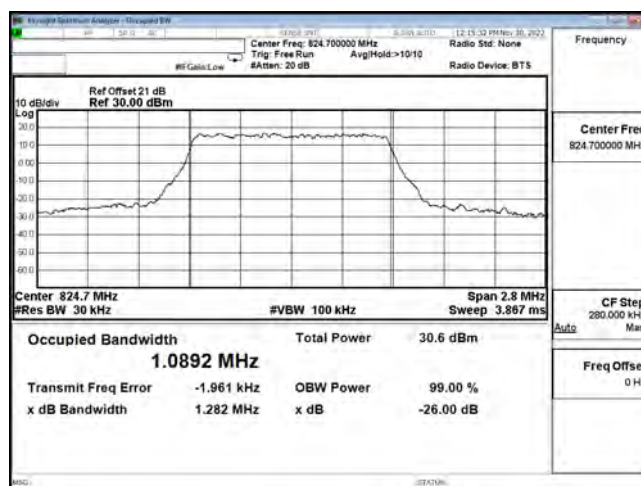
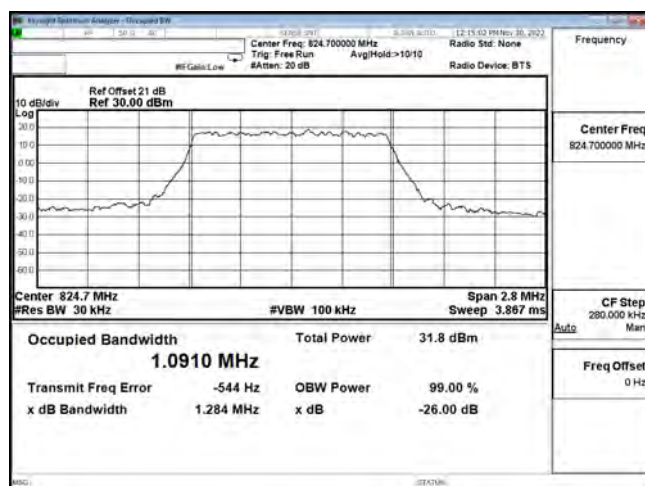


OCC B25 20 M CH26590 64QAM



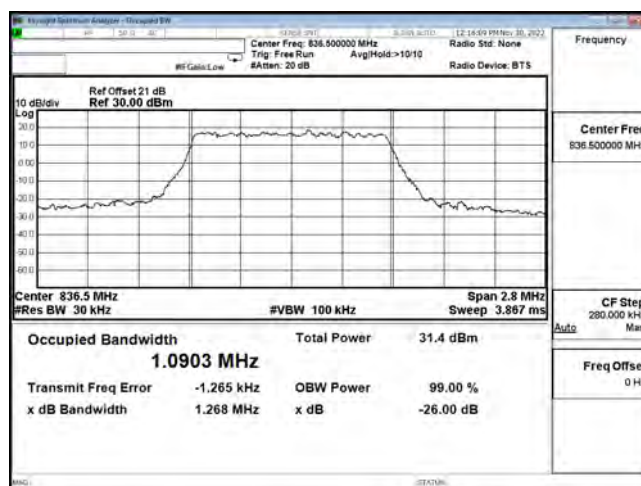
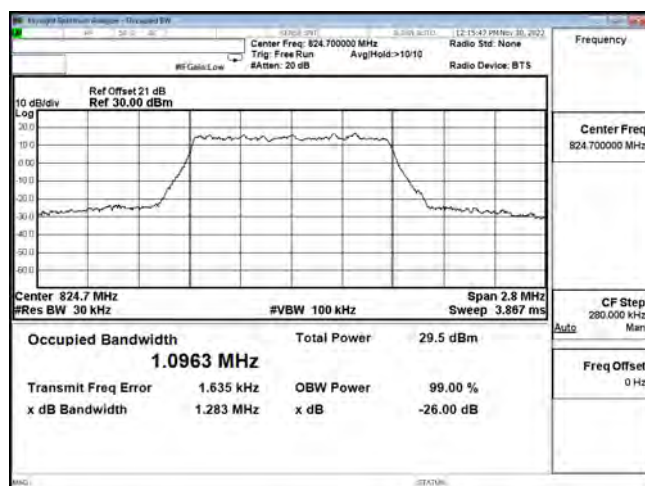
OCC B25 20 M CH26590 16QAM

LTE Band 26



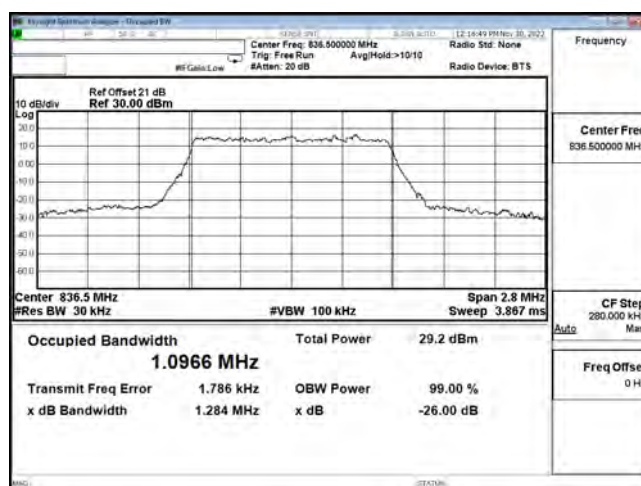
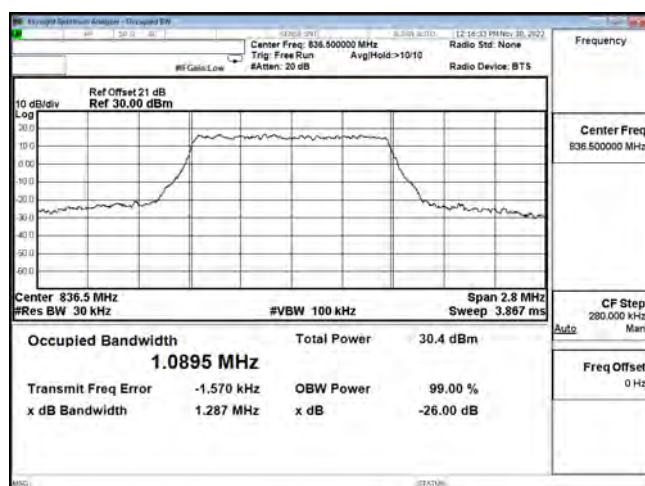
OCC B26 1.4 M CH26797 QPSK

OCC B26 1.4 M CH26797 16QAM



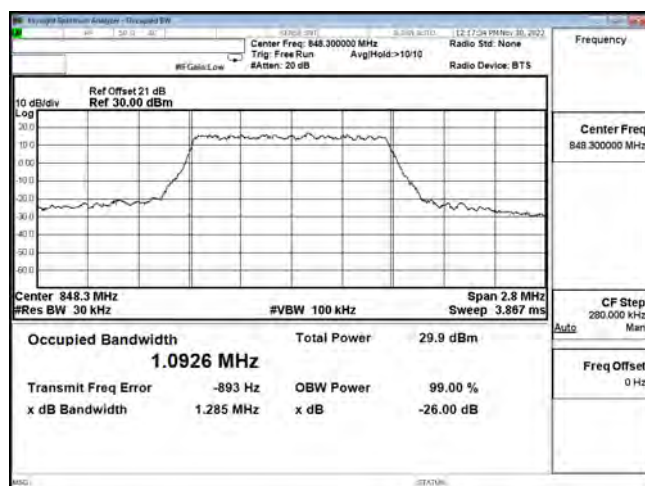
OCC B26 1.4 M CH26797 64QAM

OCC B26 1.4 M CH26915 QPSK

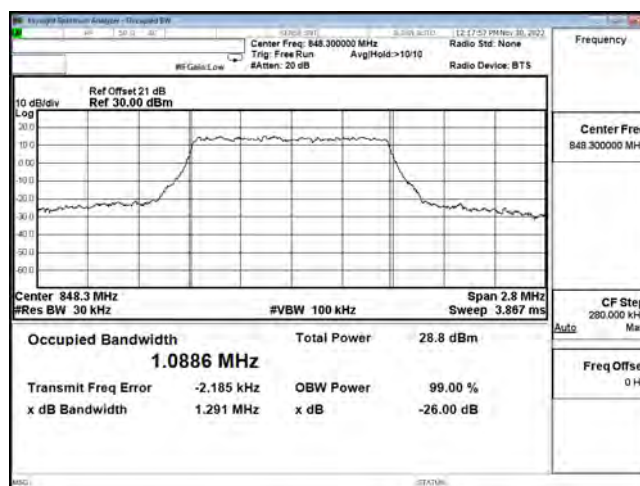


OCC B26 1.4 M CH26915 16QAM

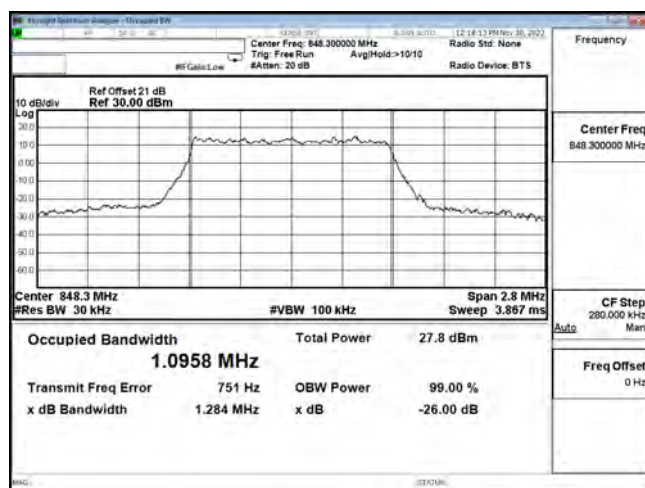
OCC B26 1.4 M CH26915 64QAM



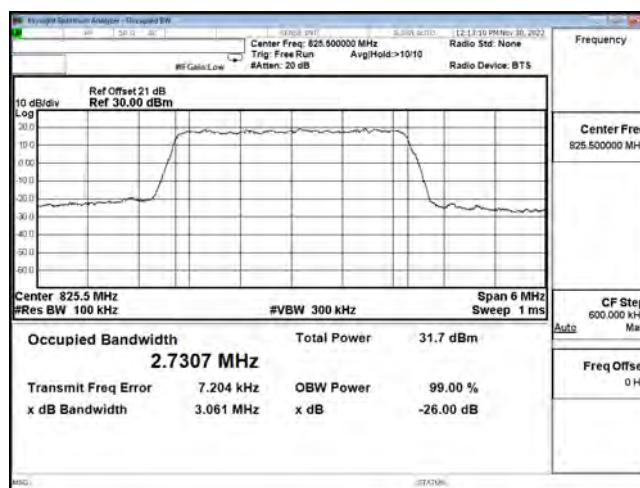
OCC B26 1.4 M CH27033 QPSK



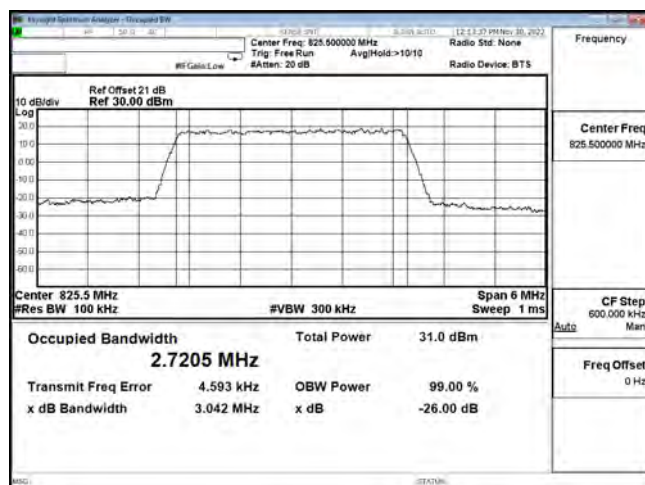
OCC B26 1.4 M CH27033 16QAM



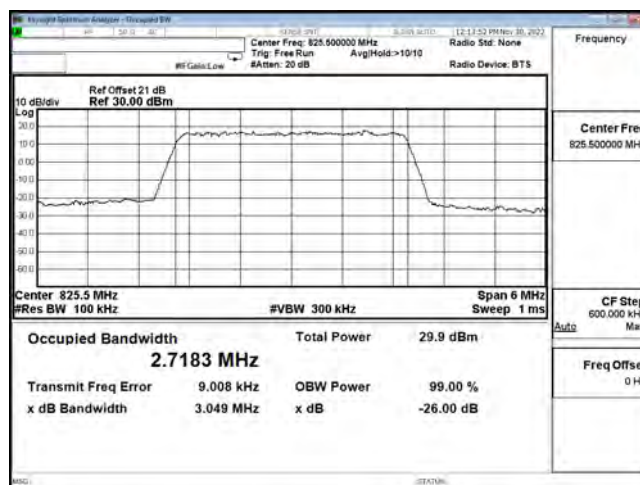
OCC B26 1.4 M CH27033 64QAM



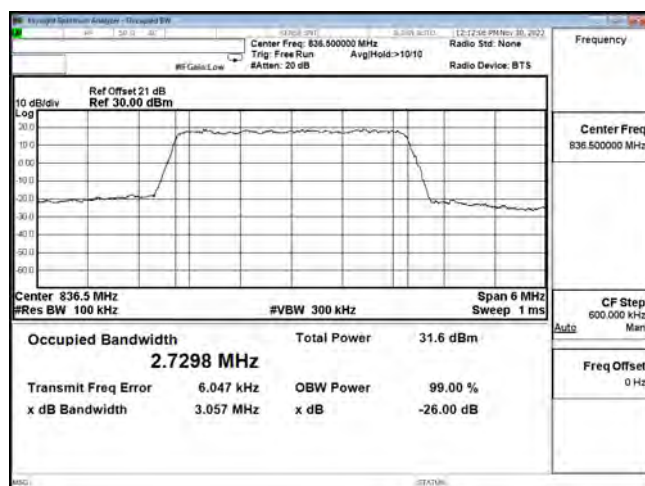
OCC B26 3 M CH26805 QPSK



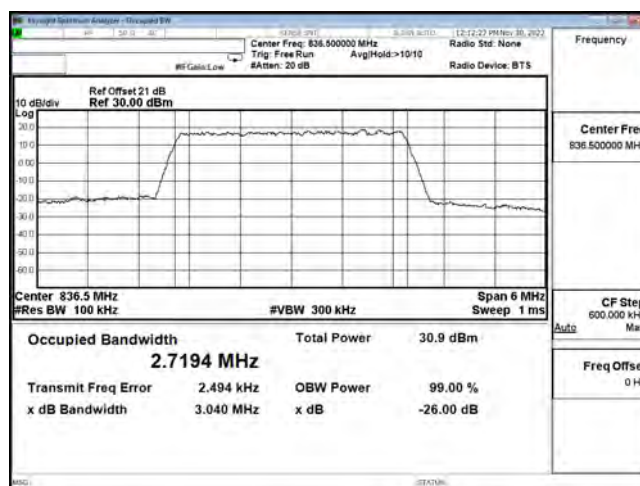
OCC B26 3 M CH26805 16QAM



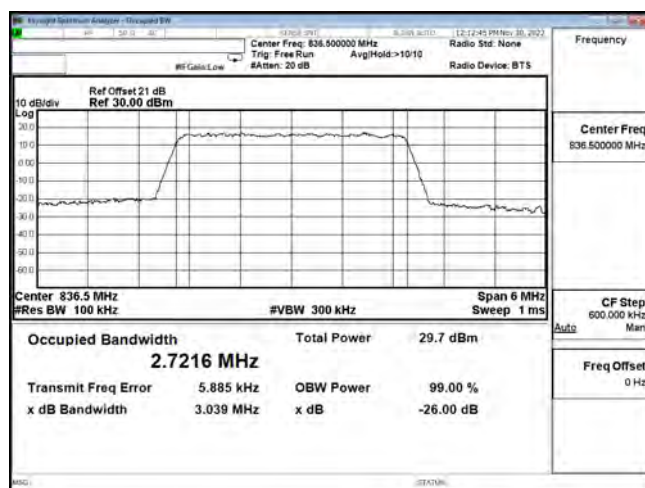
OCC B26 3 M CH26805 64QAM



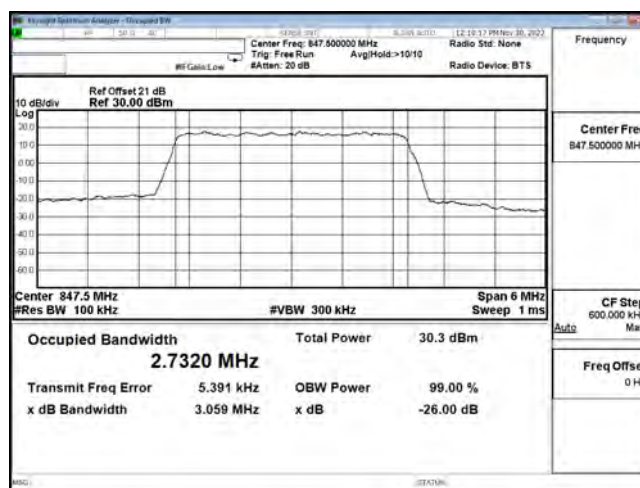
OCC B26 3 M CH26915 QPSK



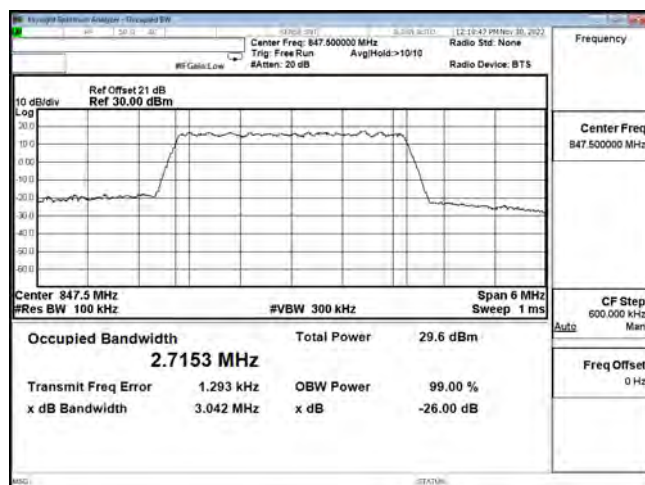
OCC B26 3 M CH26915 16QAM



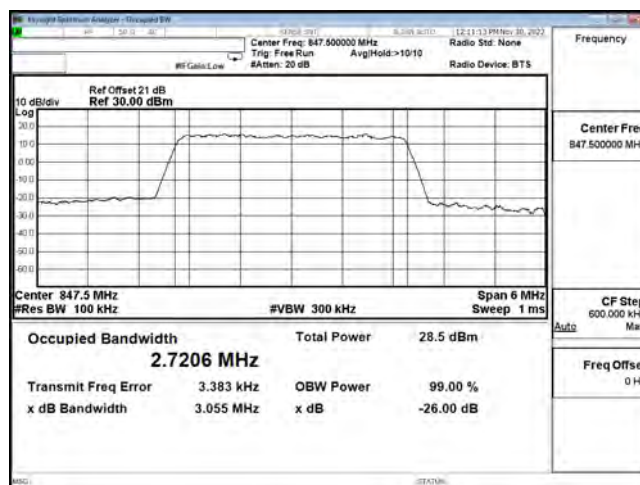
OCC B26 3 M CH26915 64QAM



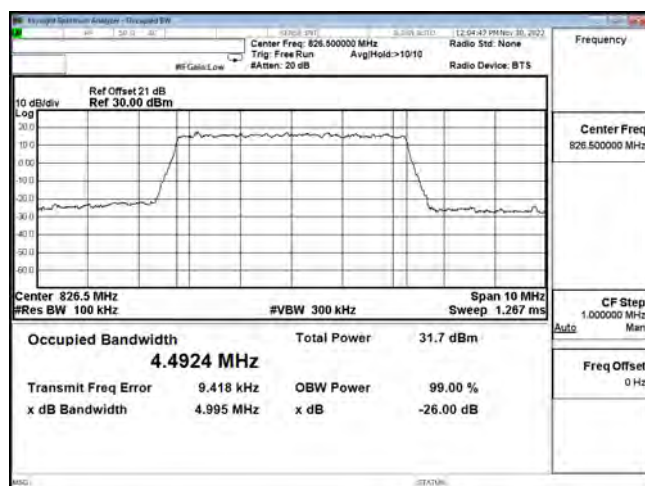
OCC B26 3 M CH27025 QPSK



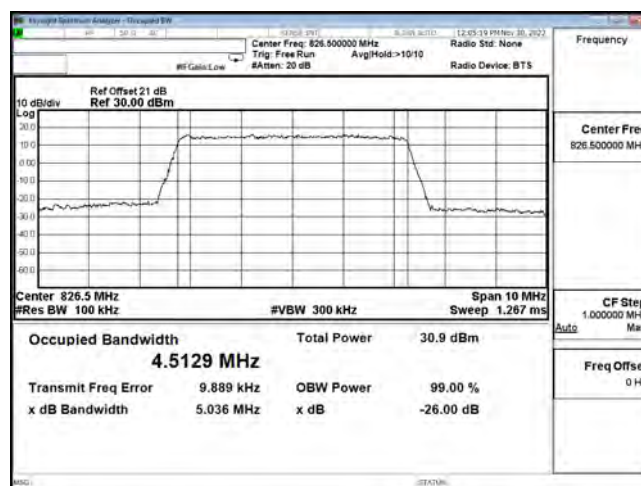
OCC B26 3 M CH27025 16QAM



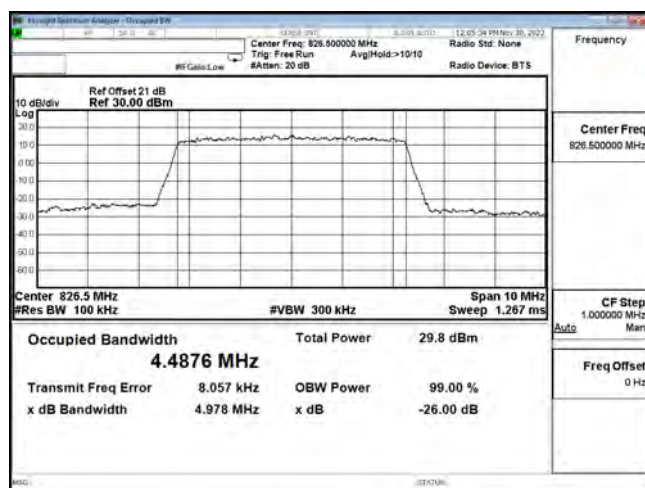
OCC B26 3 M CH27025 64QAM



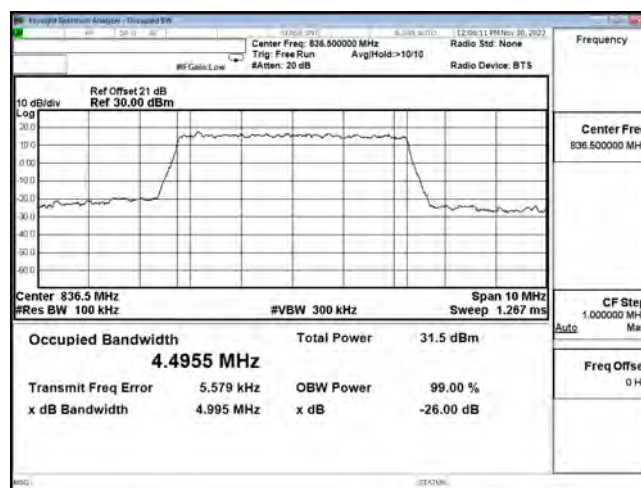
OCC B26 5 M CH26815 QPSK



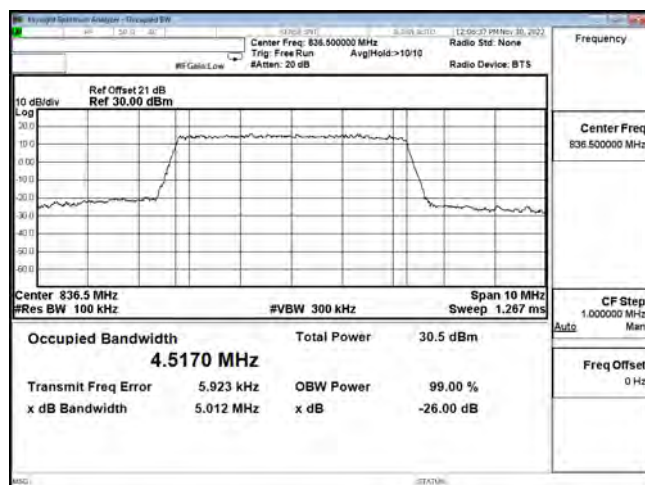
OCC B26 5 M CH26815 16QAM



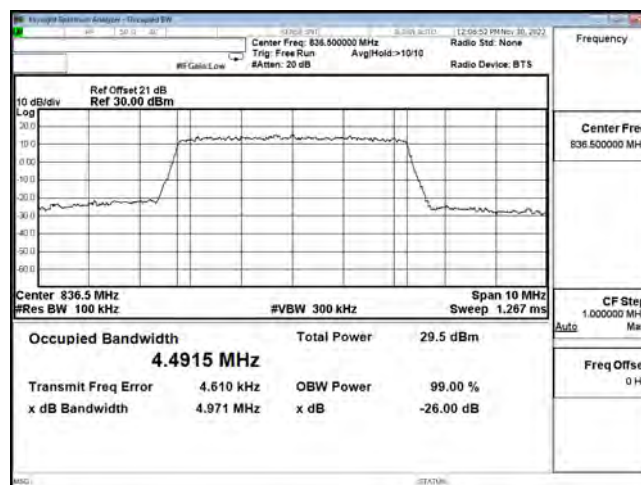
OCC B26 5 M CH26815 64QAM



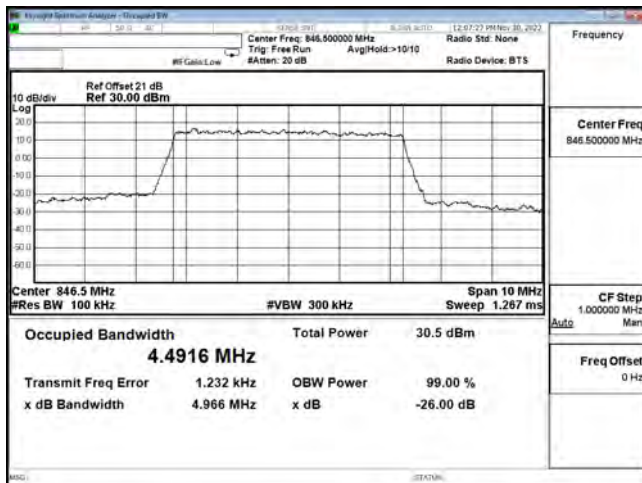
OCC B26 5 M CH26915 QPSK



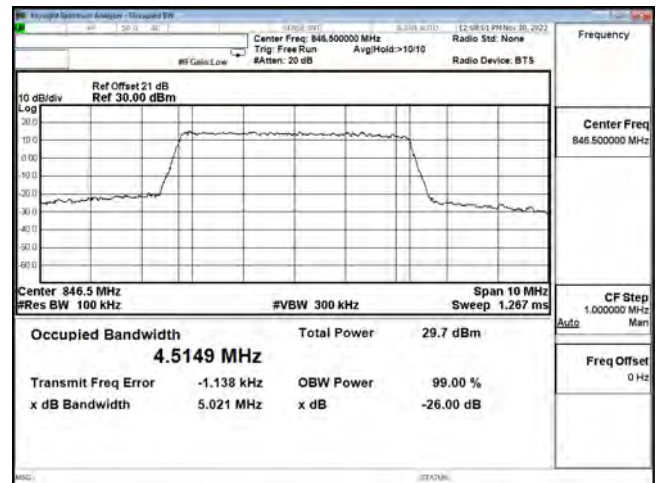
OCC B26 5 M CH26915 16QAM



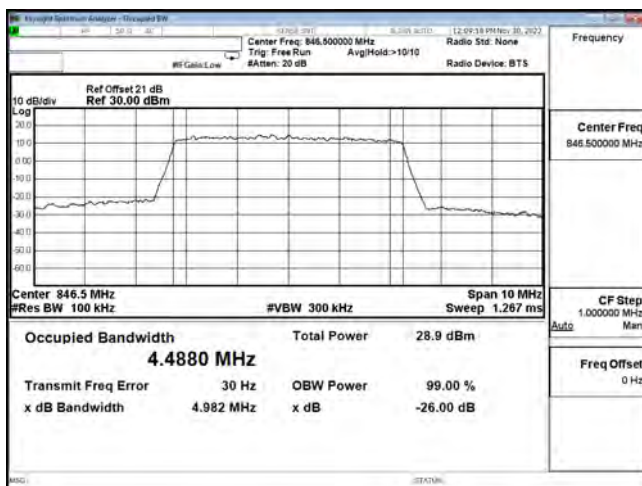
OCC B26 5 M CH26915 64QAM



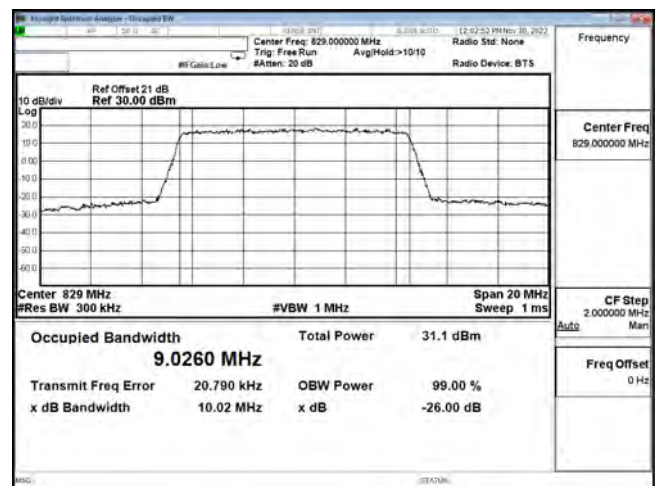
OCC B26 5 M CH27015 QPSK



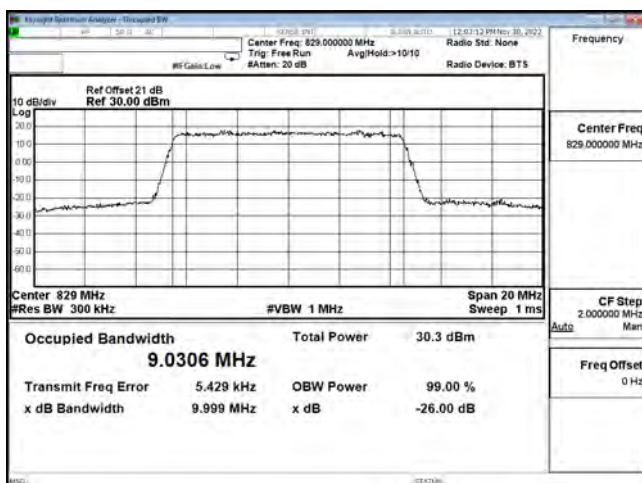
OCC B26 5 M CH27015 16QAM



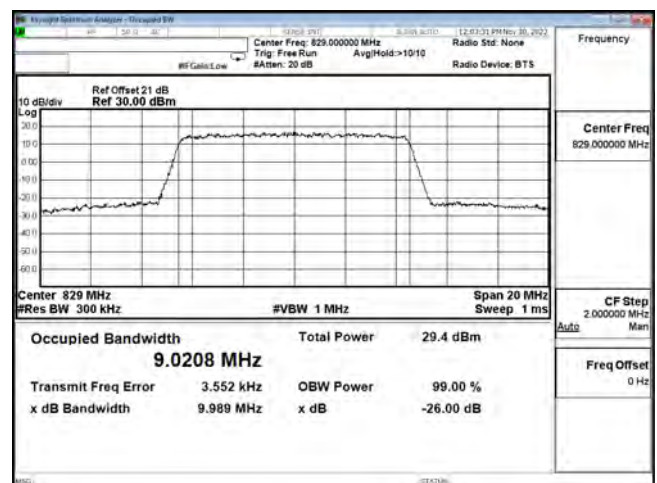
OCC B26 5 M CH27015 64QAM



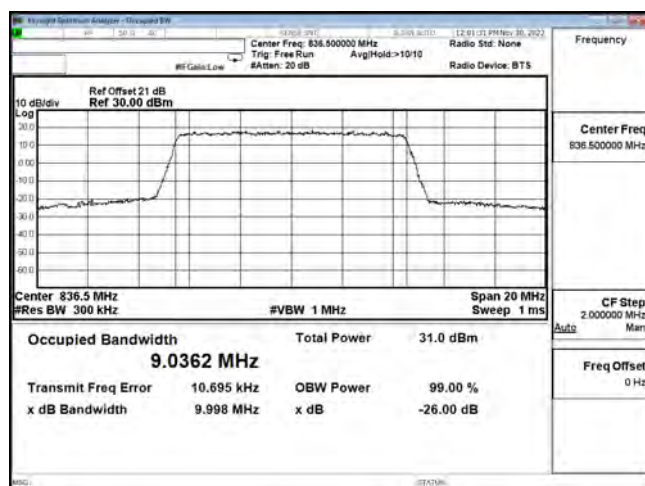
OCC B26 10 M CH26840 QPSK



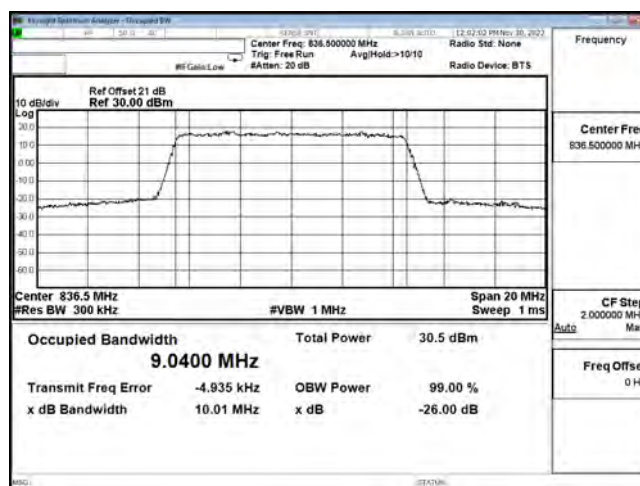
OCC B26 10 M CH26840 16QAM



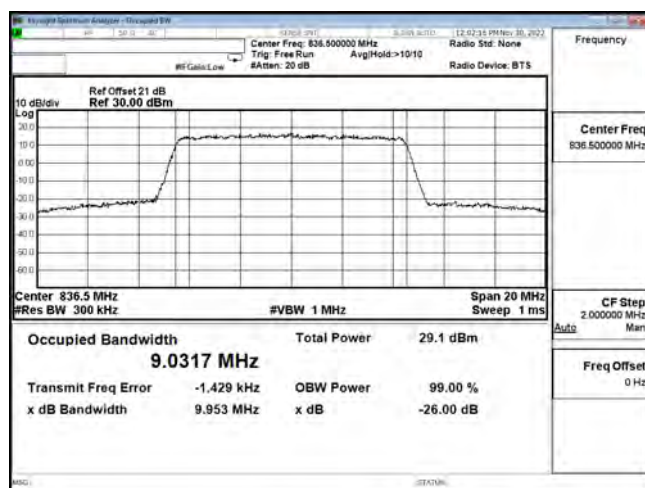
OCC B26 10 M CH26840 64QAM



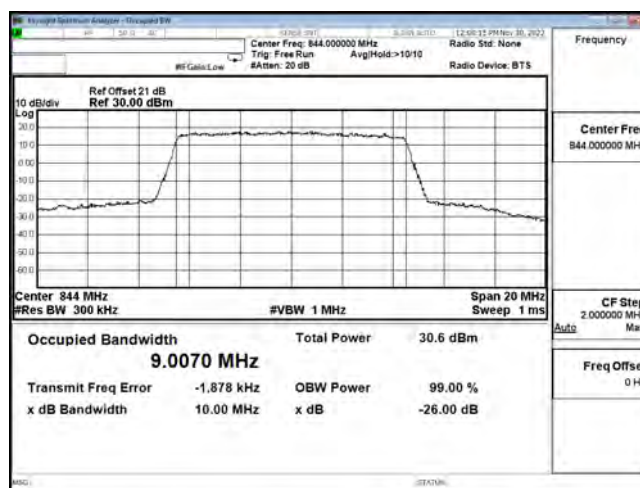
OCC B26 10 M CH26915 QPSK



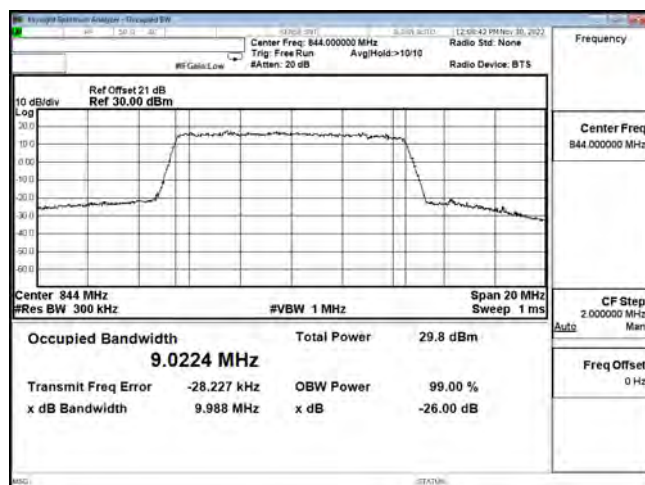
OCC B26 10 M CH26915 16QAM



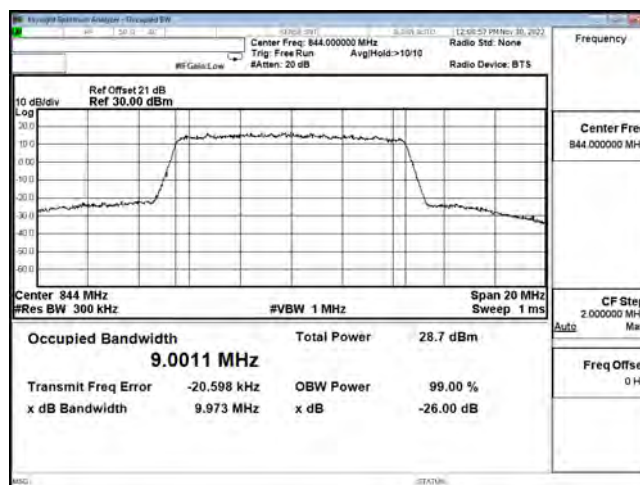
OCC B26 10 M CH26915 64QAM



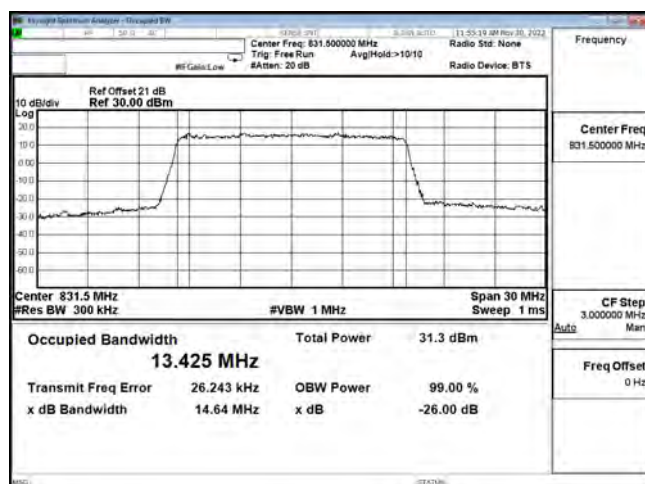
OCC B26 10 M CH26990 QPSK



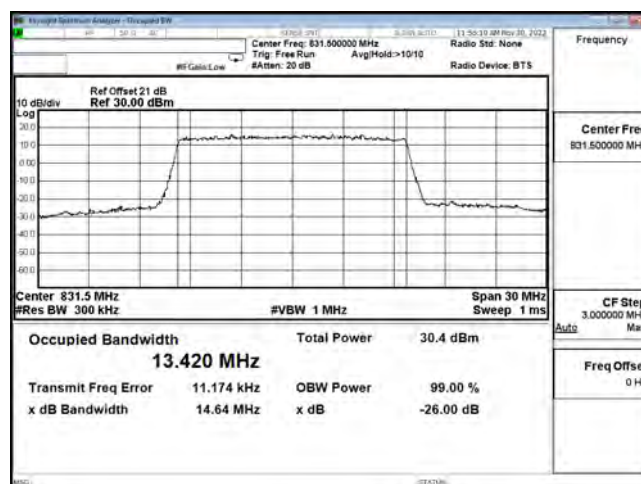
OCC B26 10 M CH26990 16QAM



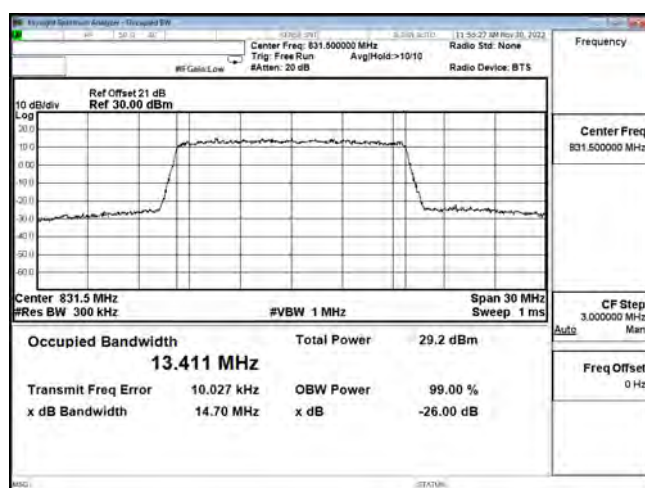
OCC B26 10 M CH26990 64QAM



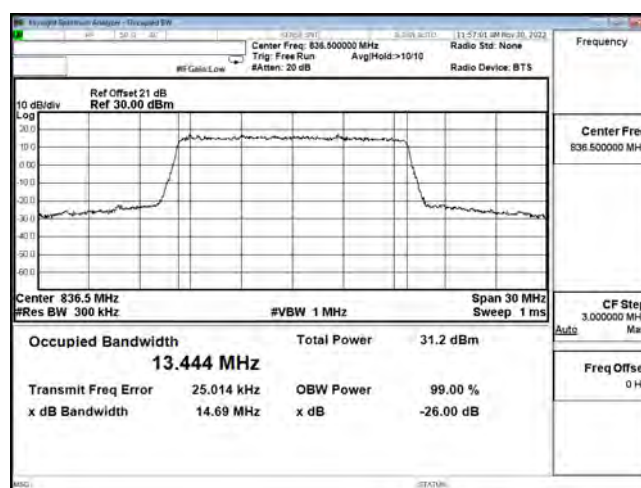
OCC B26 15 M CH26865 QPSK



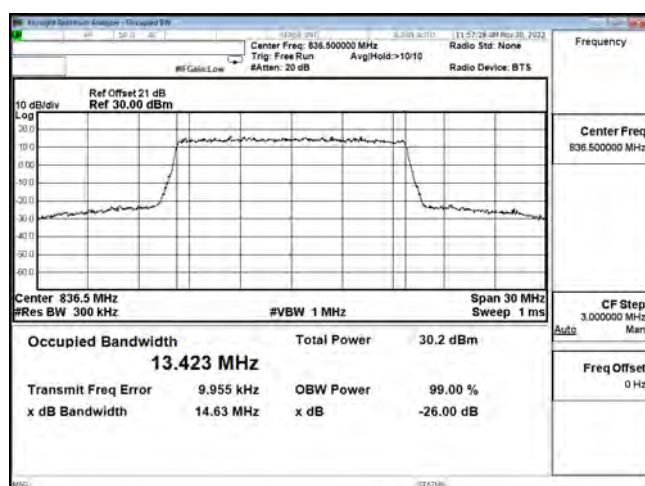
OCC B26 15 M CH26865 16QAM



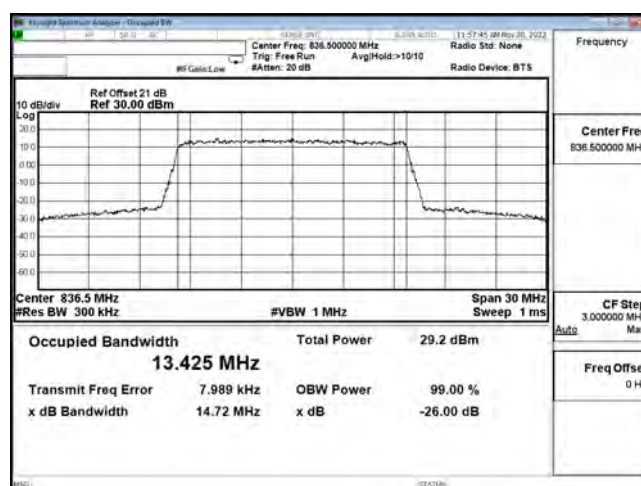
OCC B26 15 M CH26865 64QAM



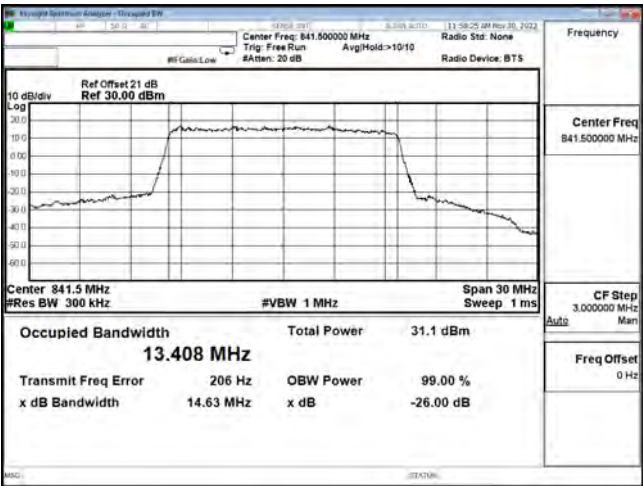
OCC B26 15 M CH26915 QPSK



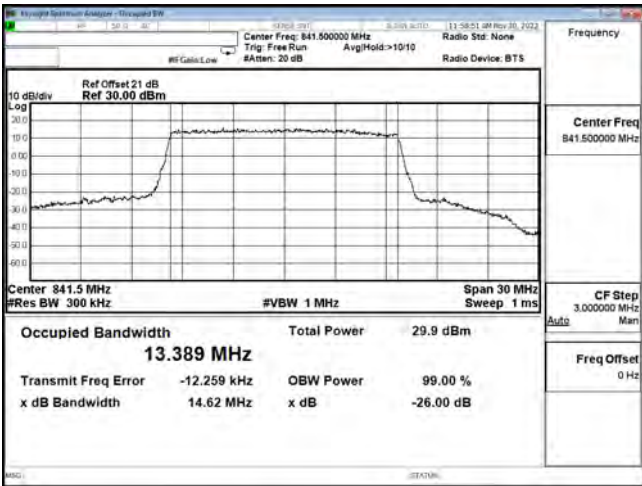
OCC B26 15 M CH26915 16QAM



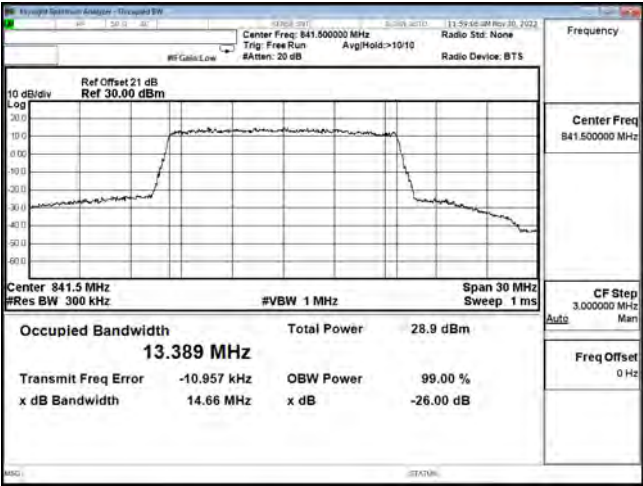
OCC B26 15 M CH26915 64QAM



OCC B26 15 M CH26965 QPSK

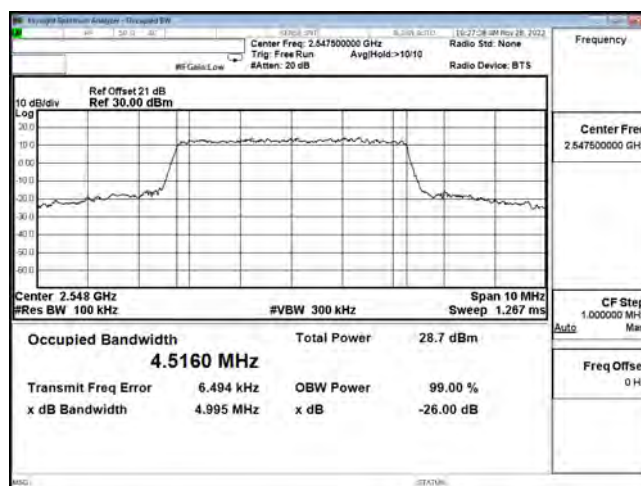
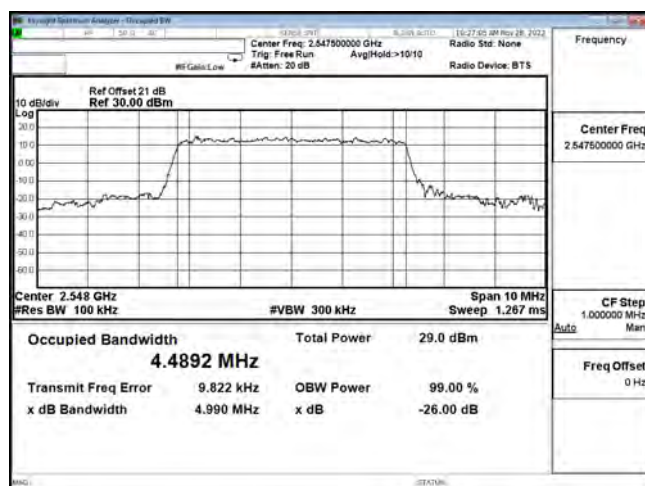


OCC B26 15 M CH26965 16QAM

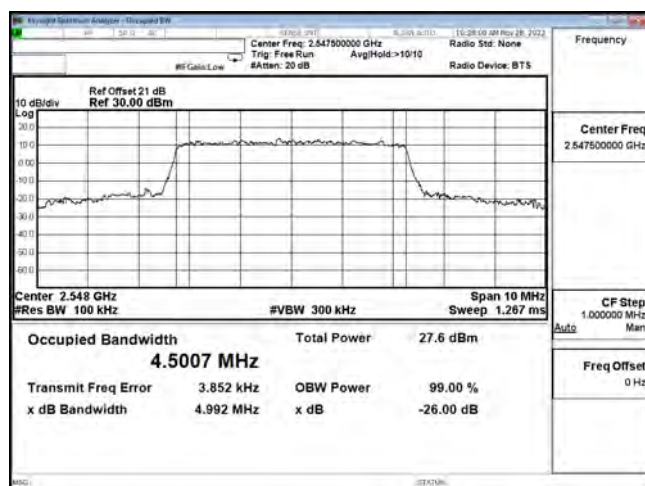


OCC B26 15 M CH26965 64QAM

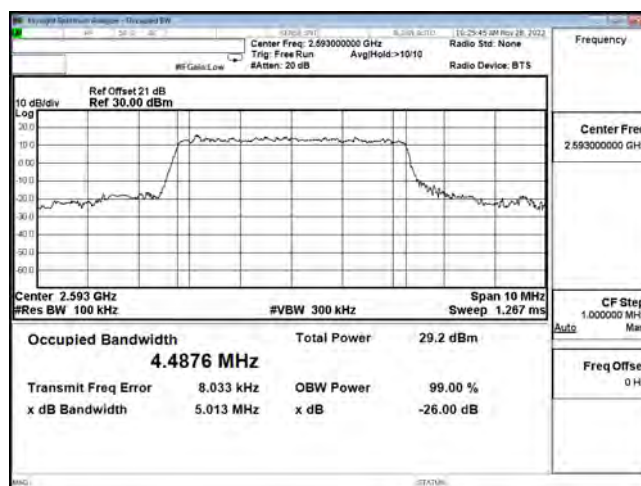
LTE Band 41



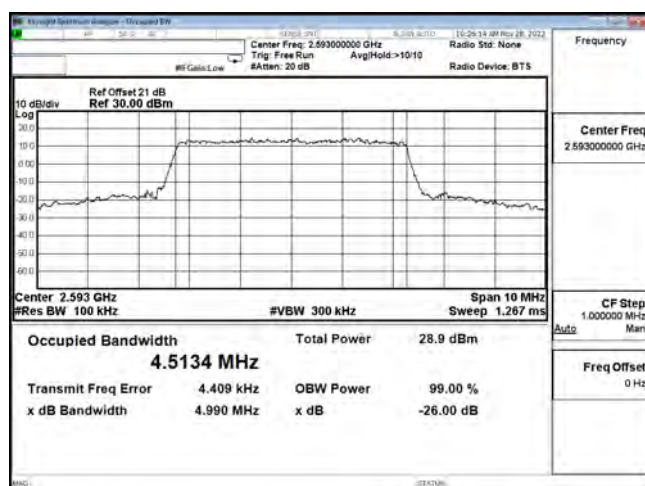
OCC B41 5 M CH40165 QPSK



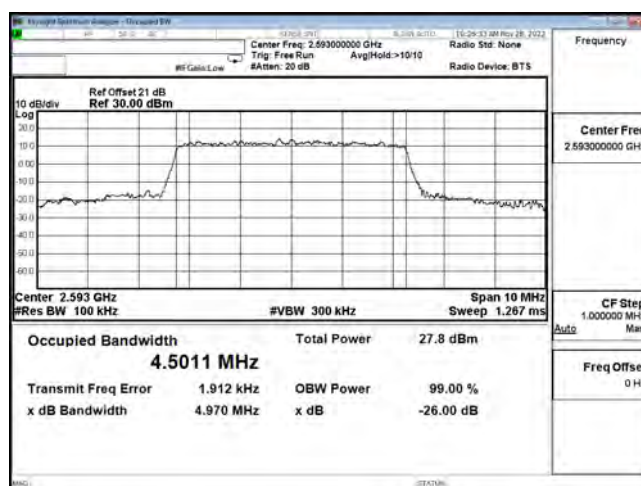
OCC B41 5 M CH40165 16QAM



OCC B41 5 M CH40165 64QAM

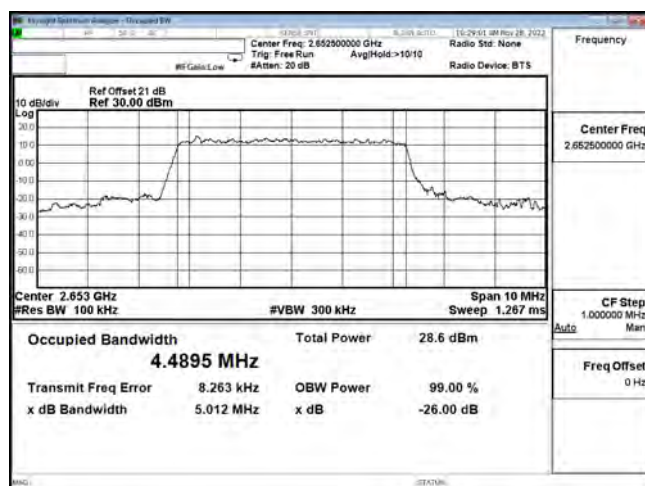


OCC B41 5 M CH40620 QPSK

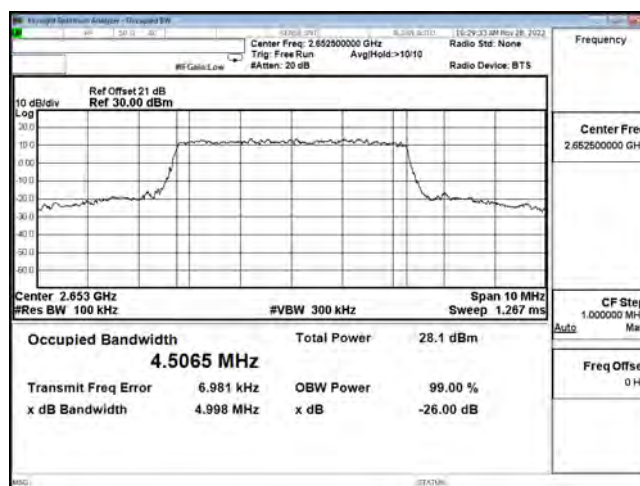


OCC B41 5 M CH40620 16QAM

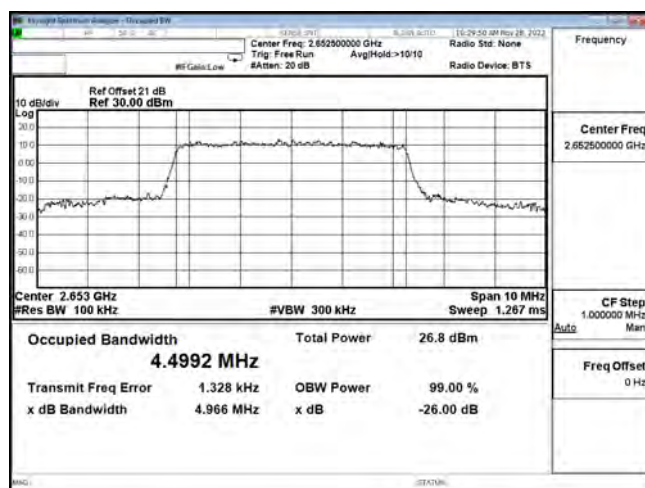
OCC B41 5 M CH40620 64QAM



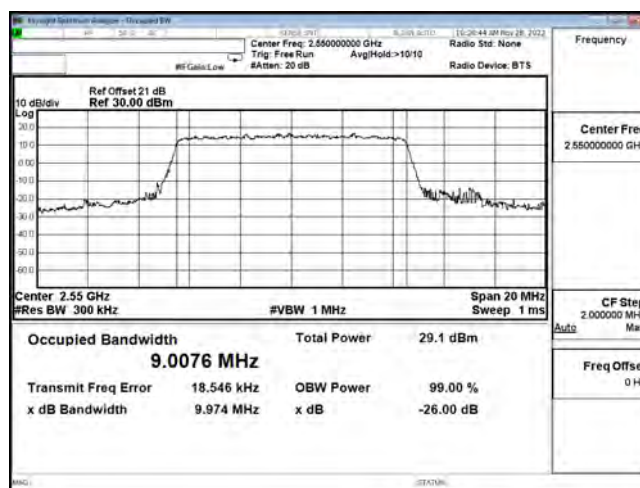
OCC B41 5 M CH41215 QPSK



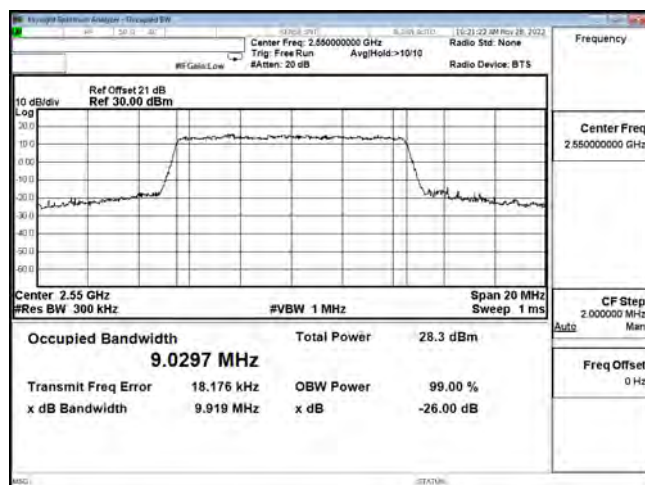
OCC B41 5 M CH41215 16QAM



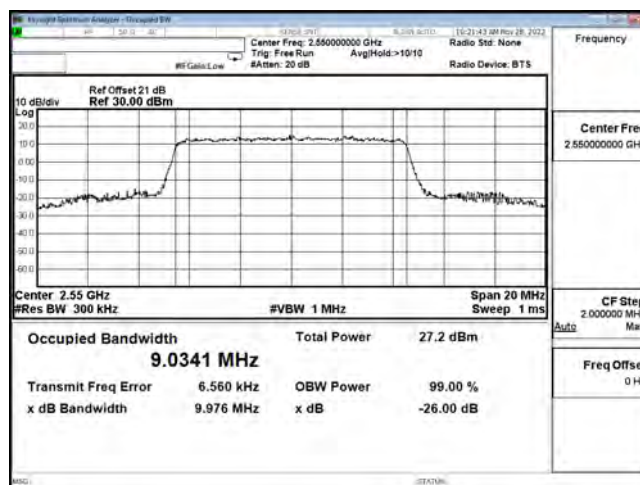
OCC B41 5 M CH41215 64QAM



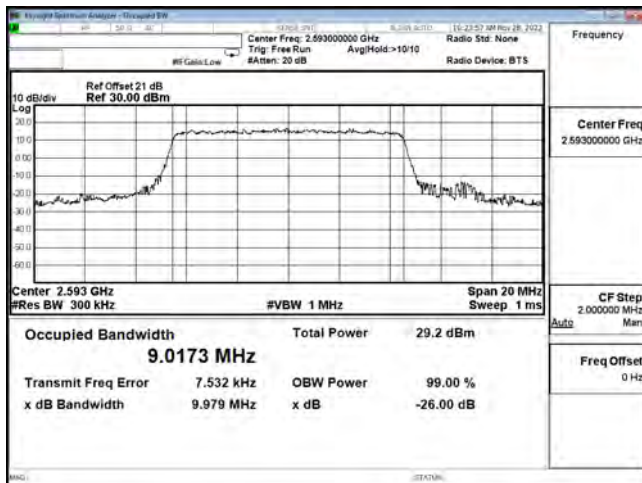
OCC B41 10 M CH40190 QPSK



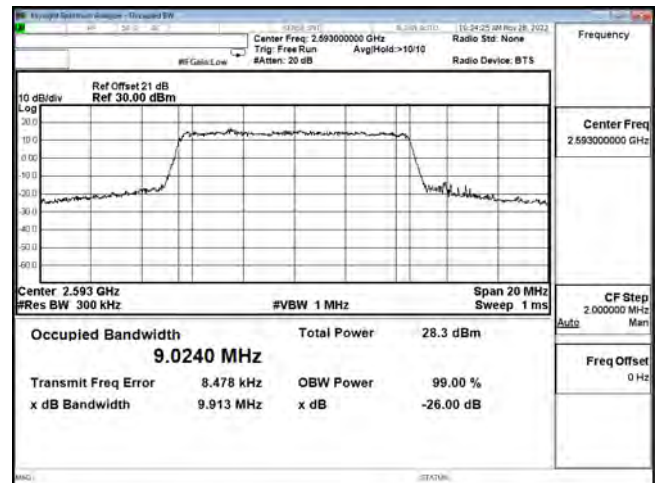
OCC B41 10 M CH40190 16QAM



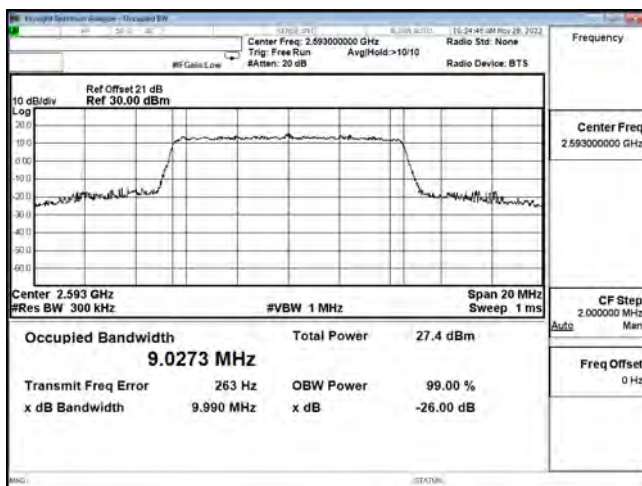
OCC B41 10 M CH40190 64QAM



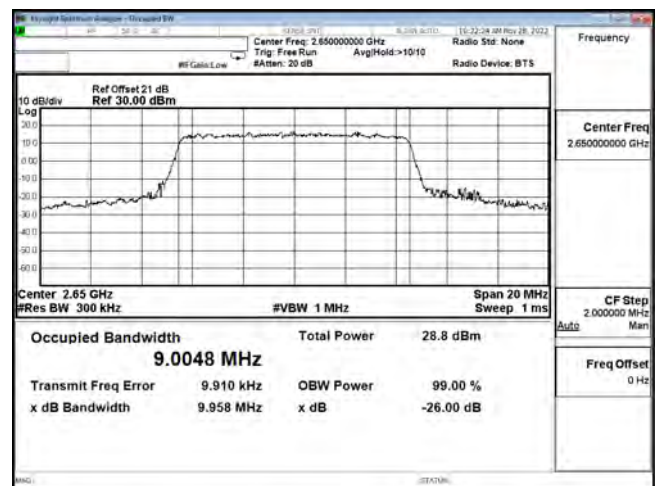
OCC B41 10 M CH40620 QPSK



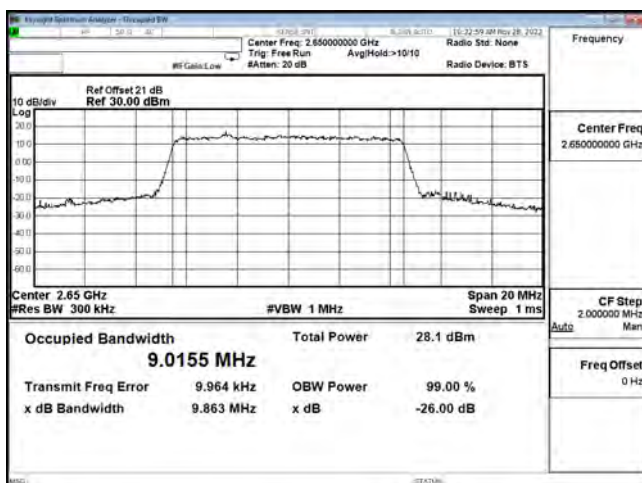
OCC B41 10 M CH40620 16QAM



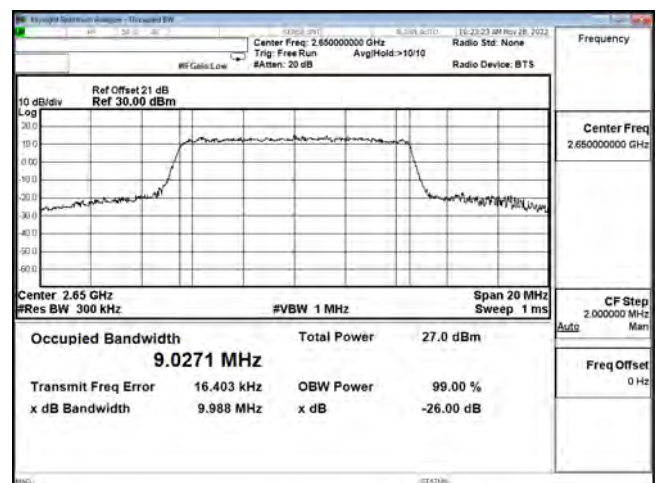
OCC B41 10 M CH40620 64QAM



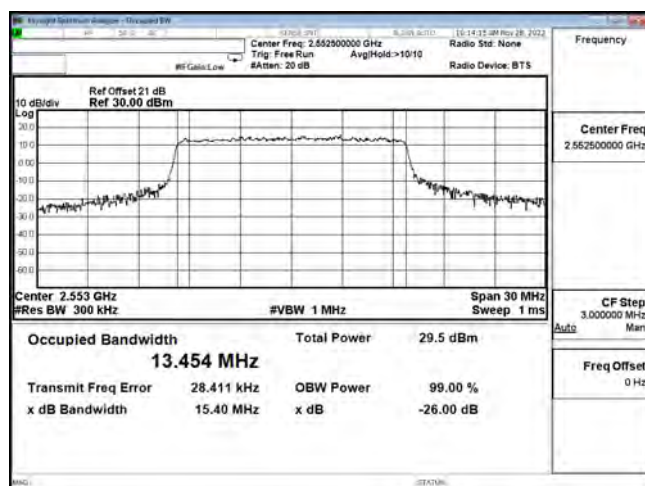
OCC B41 10 M CH41190 QPSK



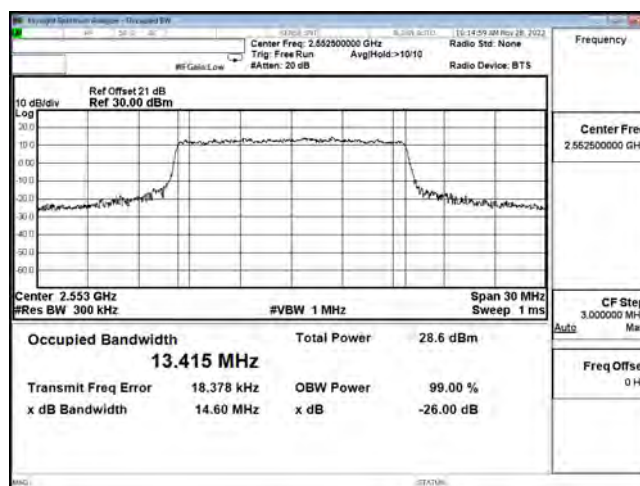
OCC B41 10 M CH41190 16QAM



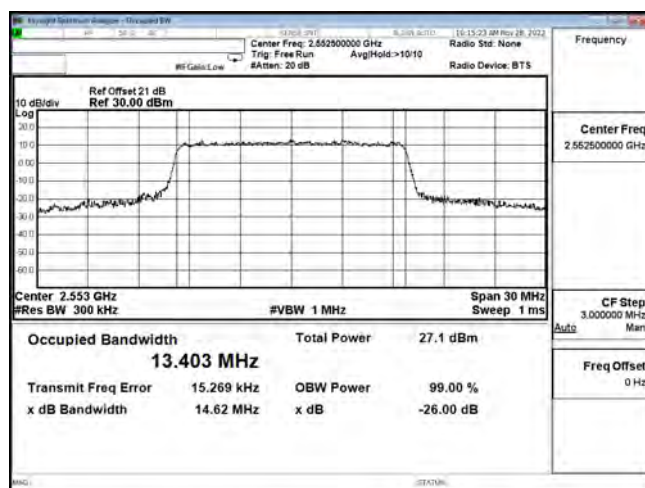
OCC B41 10 M CH41190 64QAM



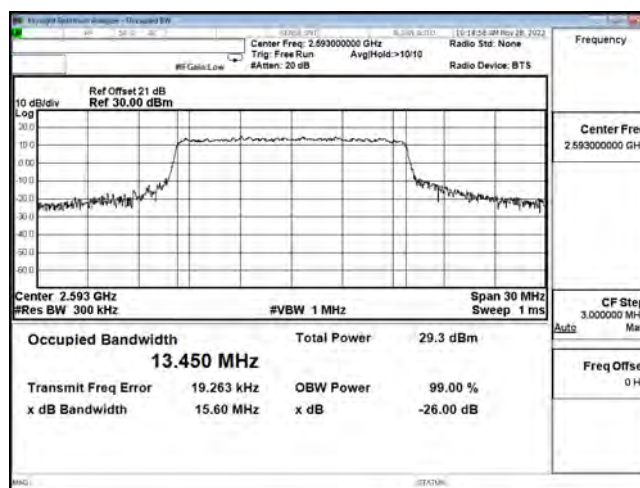
OCC B41 15 M CH40215 QPSK



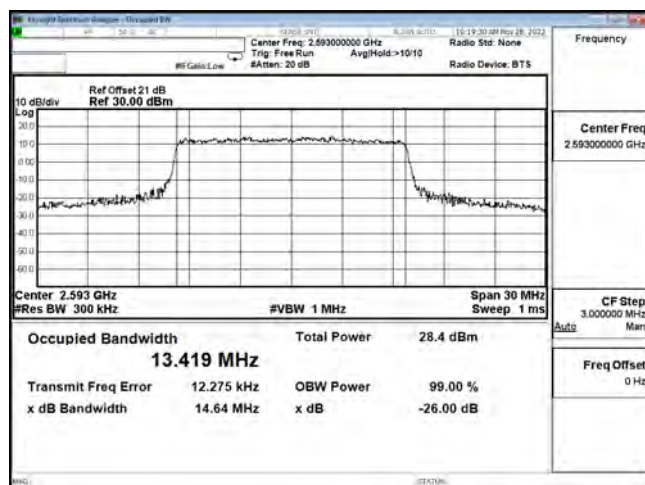
OCC B41 15 M CH40215 16QAM



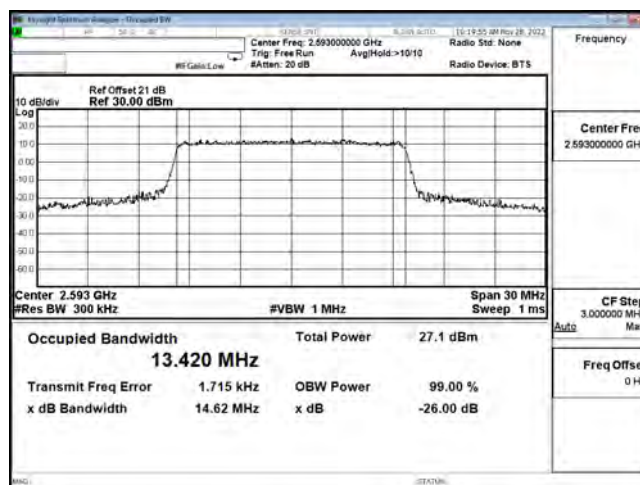
OCC B41 15 M CH40215 64QAM



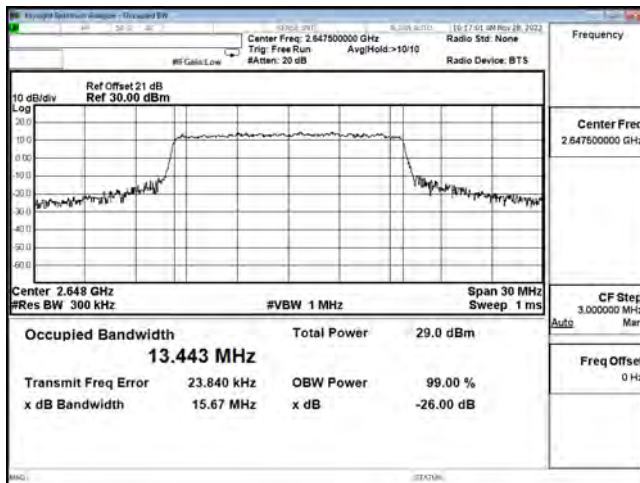
OCC B41 15 M CH40620 QPSK



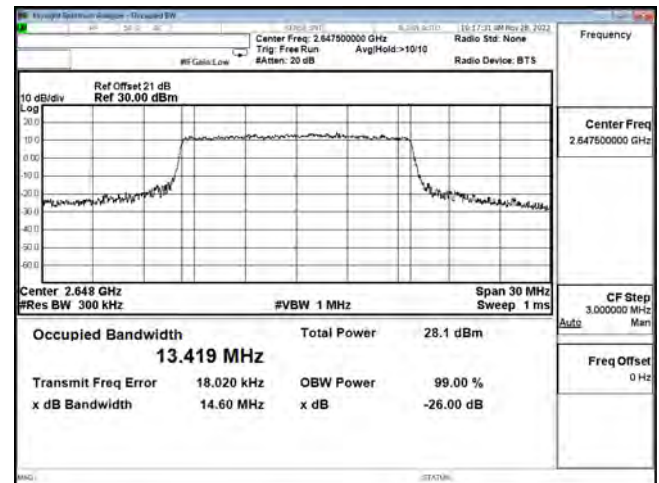
OCC B41 15 M CH40620 16QAM



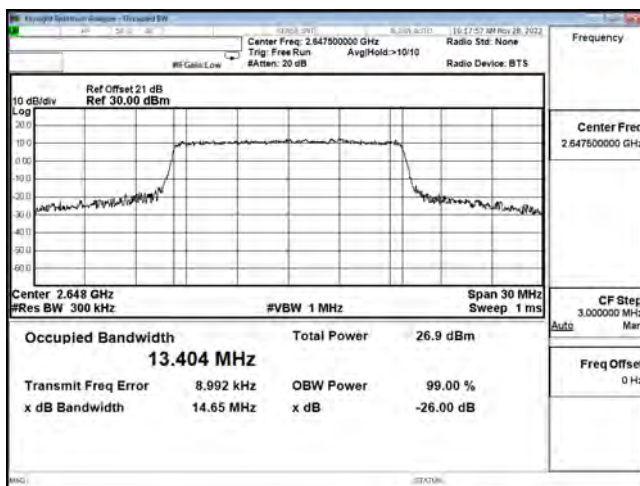
OCC B41 15 M CH40620 64QAM



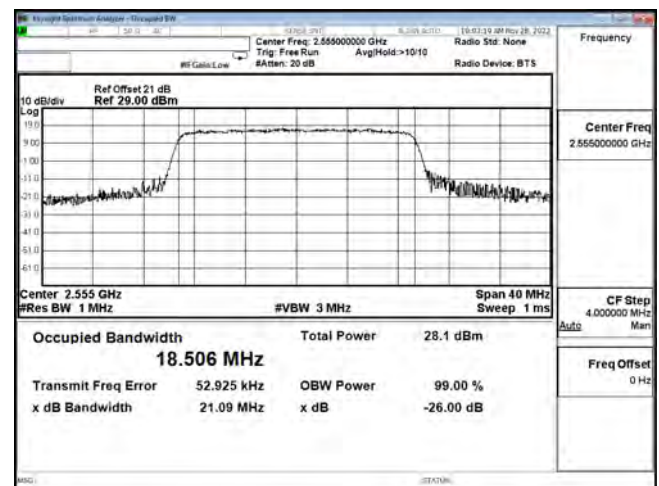
OCC B41 15 M CH41165 QPSK



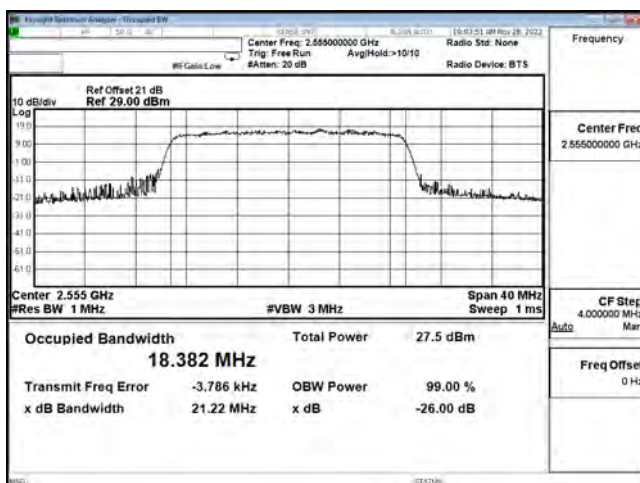
OCC B41 15 M CH41165 16QAM



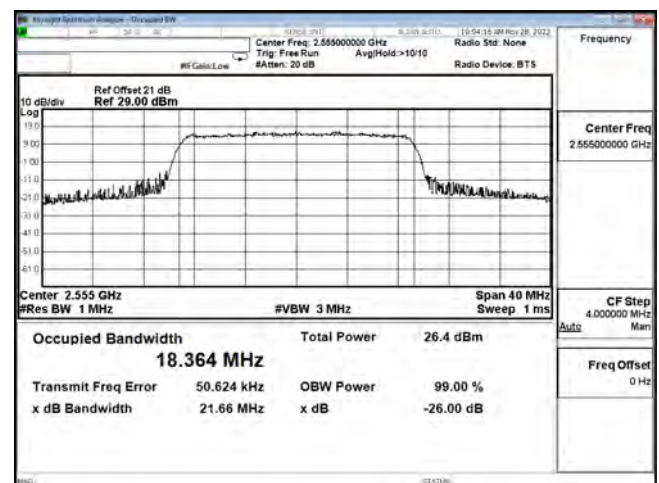
OCC B41 15 M CH41165 64QAM



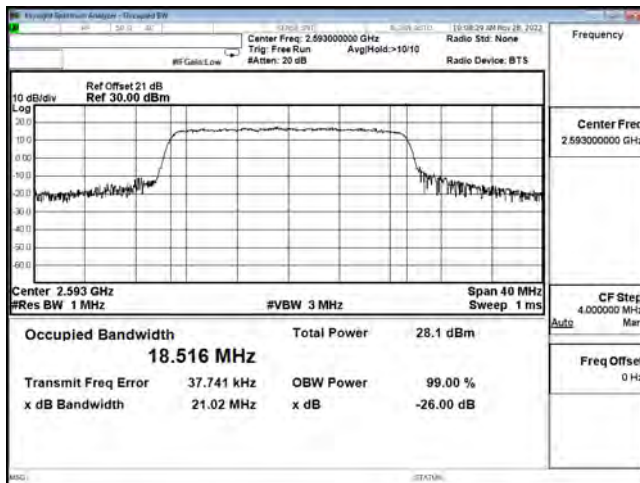
OCC B41 20 M CH40240 QPSK



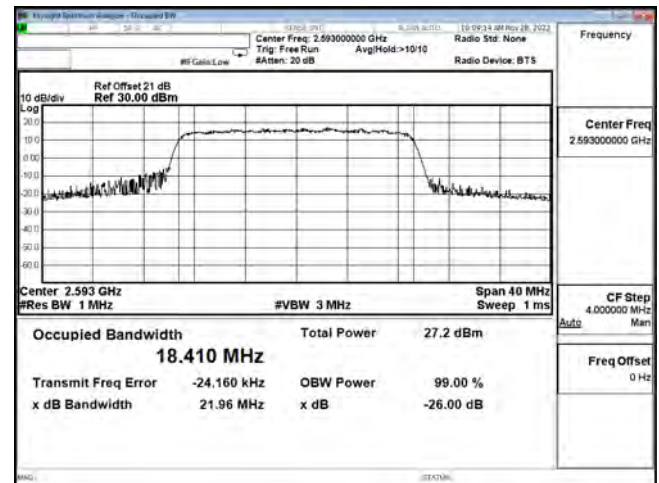
OCC B41 20 M CH40240 16QAM



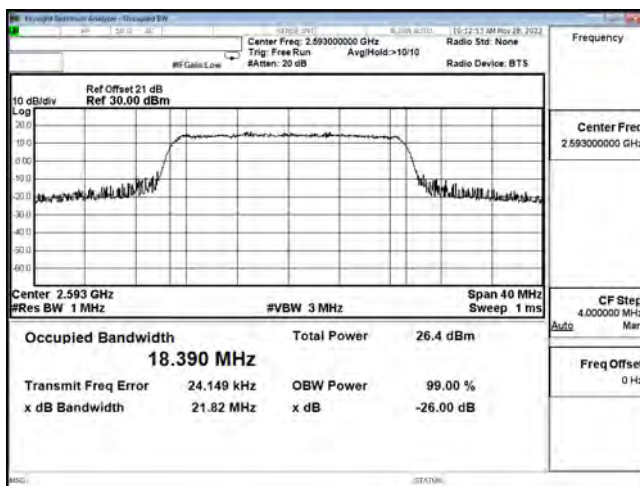
OCC B41 20 M CH40240 64QAM



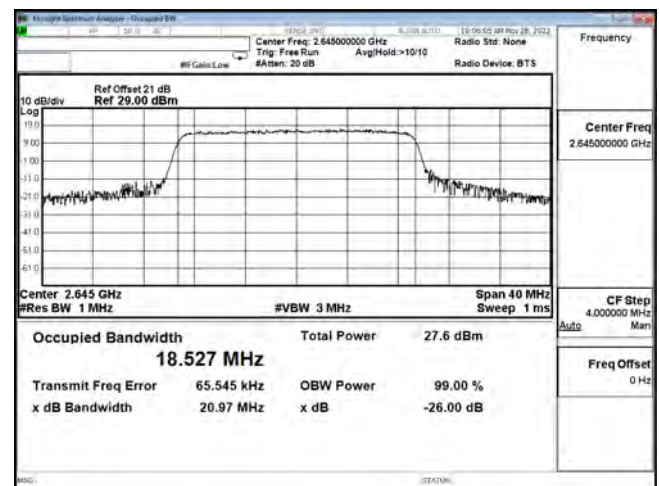
OCC B41 20 M CH40620 QPSK



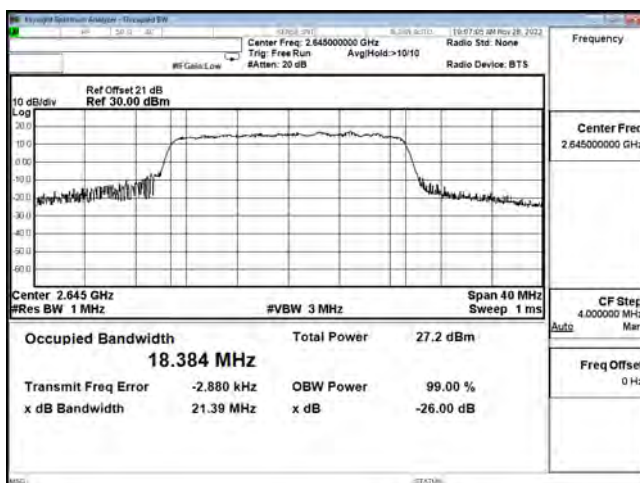
OCC B41 20 M CH40620 16QAM



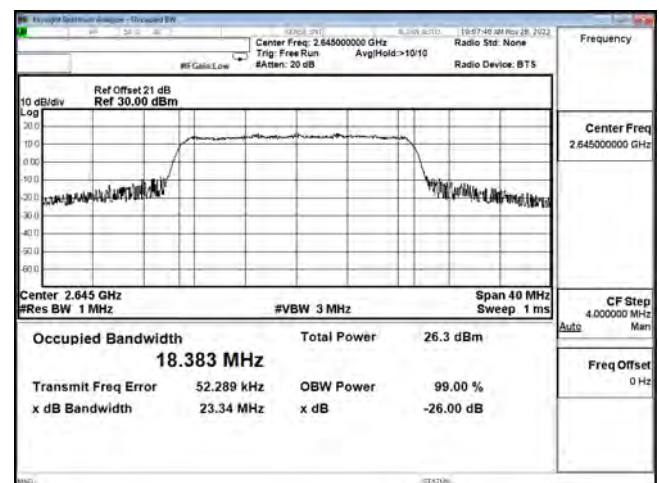
OCC B41 20 M CH40620 64QAM



OCC B41 20 M CH41140 QPSK

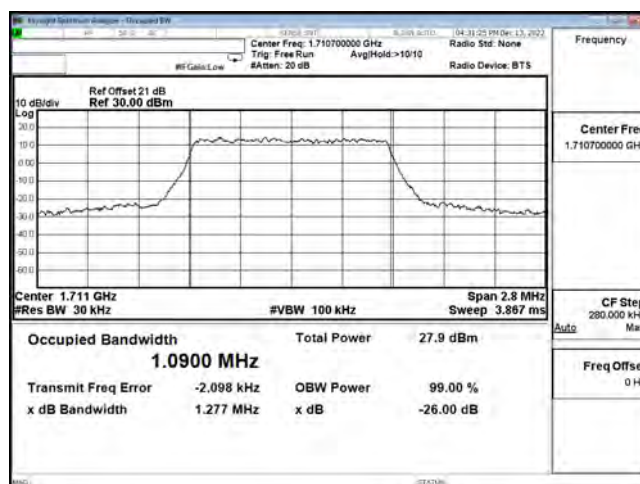
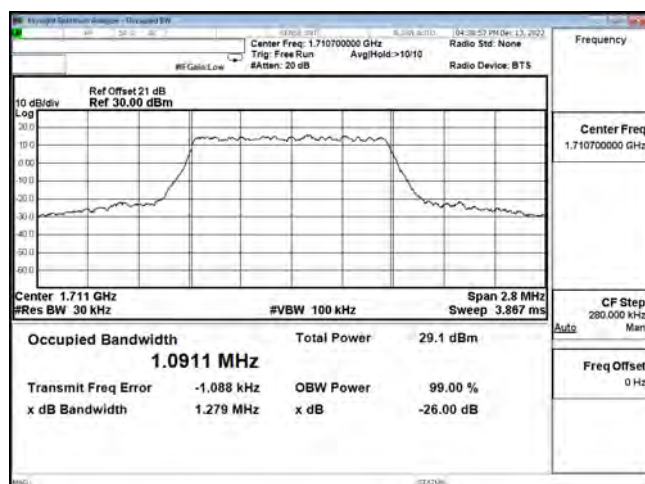


OCC B41 20 M CH41140 16QAM

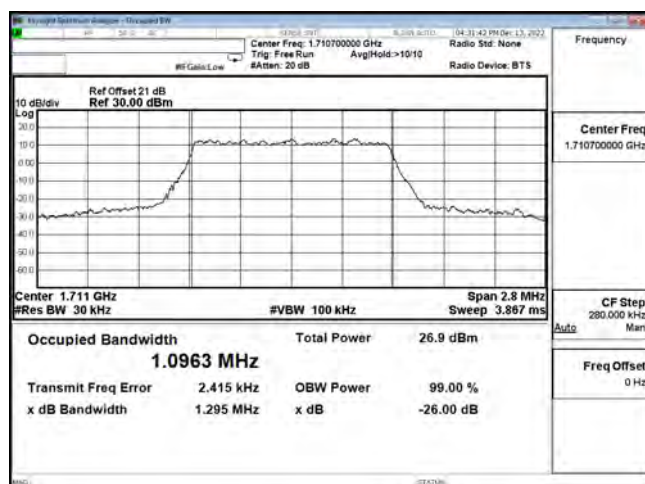


OCC B41 20 M CH41140 64QAM

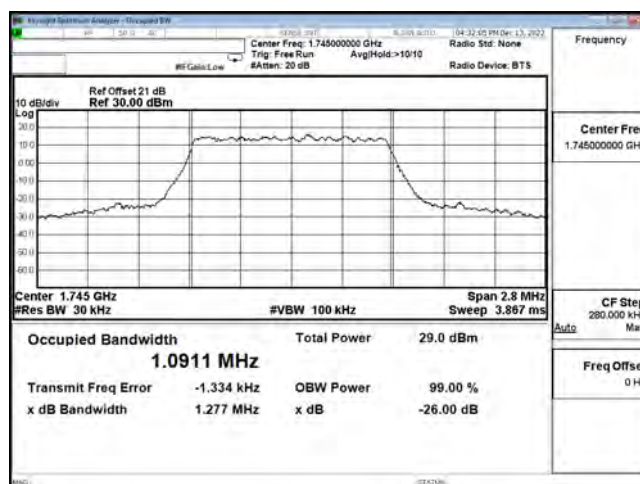
LTE Band 66



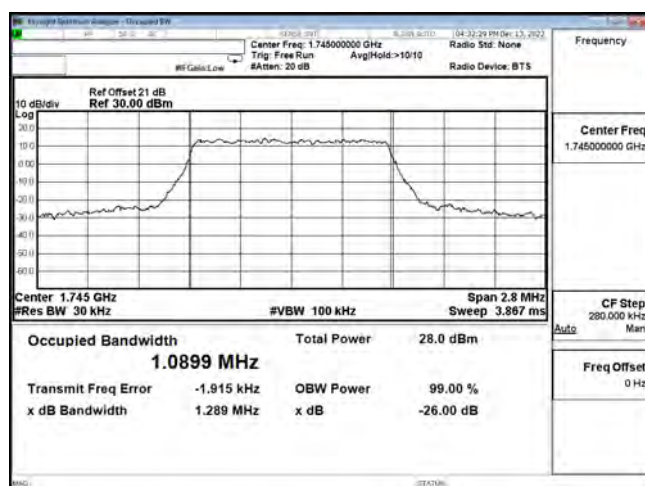
OCC B66 1.4 M CH131979 QPSK



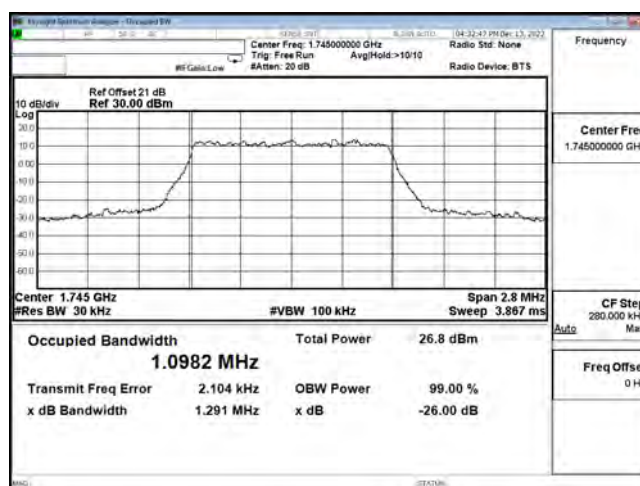
OCC B66 1.4 M CH131979 16QAM



OCC B66 1.4 M CH131979 64QAM

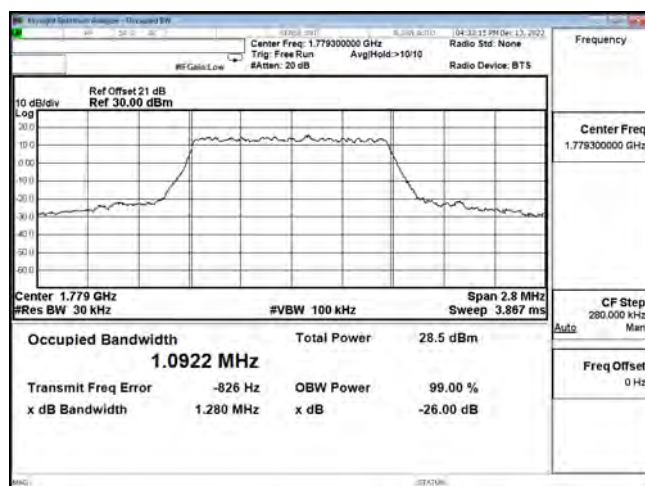


OCC B66 1.4 M CH132322 QPSK

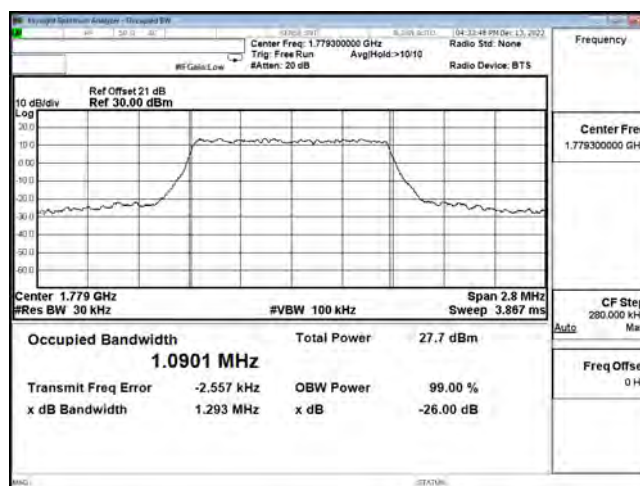


OCC B66 1.4 M CH132322 16QAM

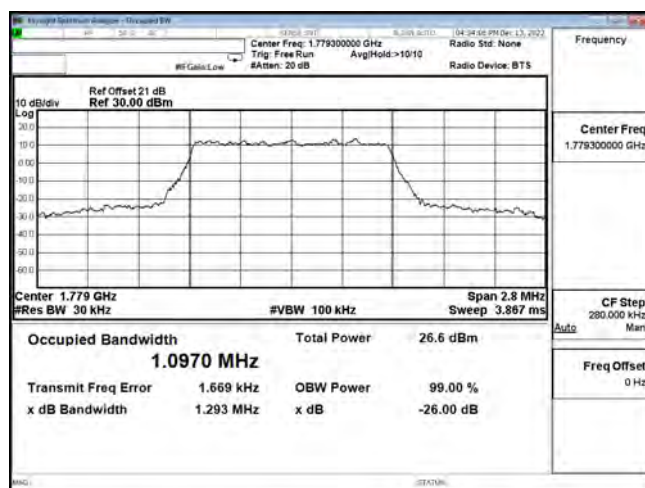
OCC B66 1.4 M CH132322 64QAM



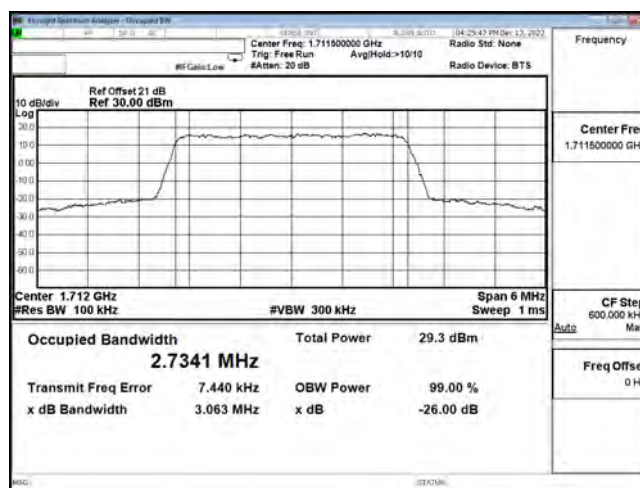
OCC B66 1.4 M CH132665 QPSK



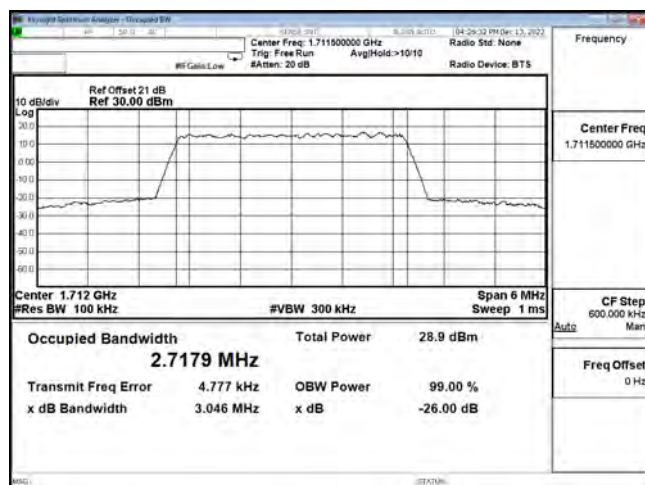
OCC B66 1.4 M CH132665 16QAM



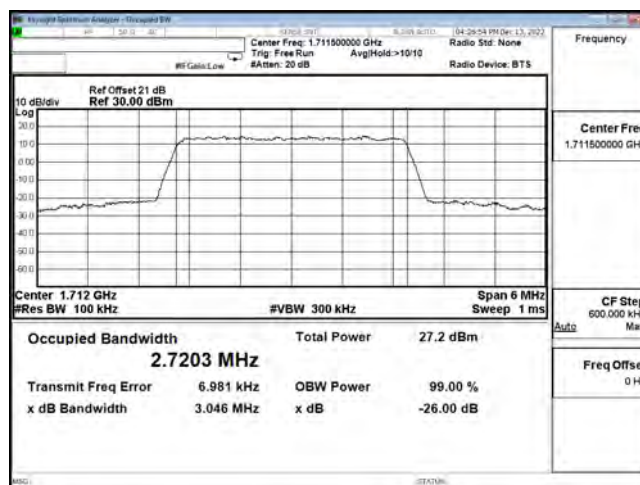
OCC B66 1.4 M CH132665 64QAM



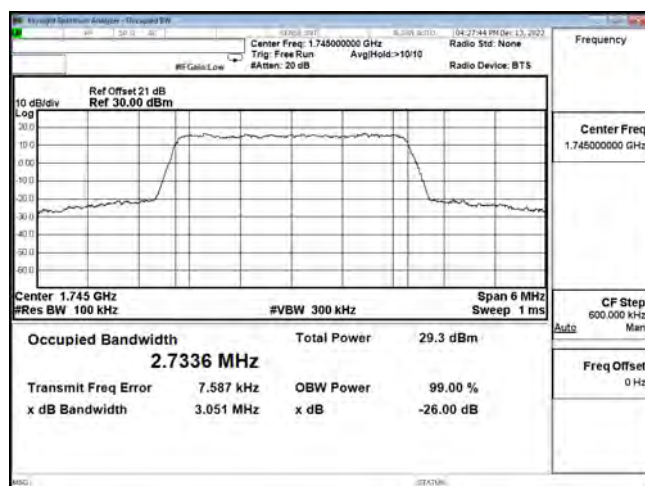
OCC B66 3 M CH131987 QPSK



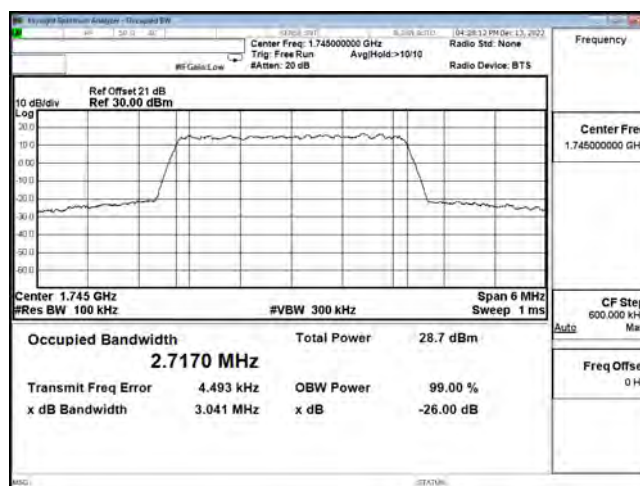
OCC B66 3 M CH131987 16QAM



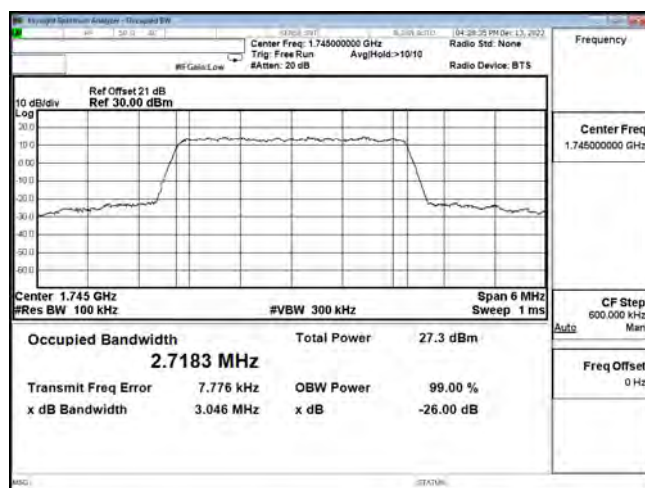
OCC B66 3 M CH131987 64QAM



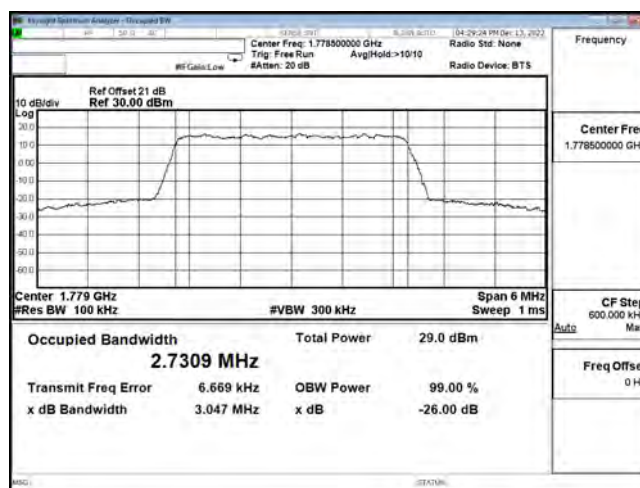
OCC B66 3 M CH132322 QPSK



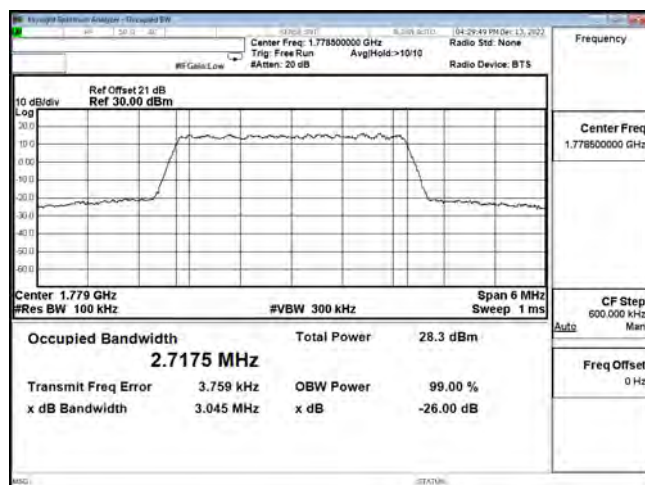
OCC B66 3 M CH132322 16QAM



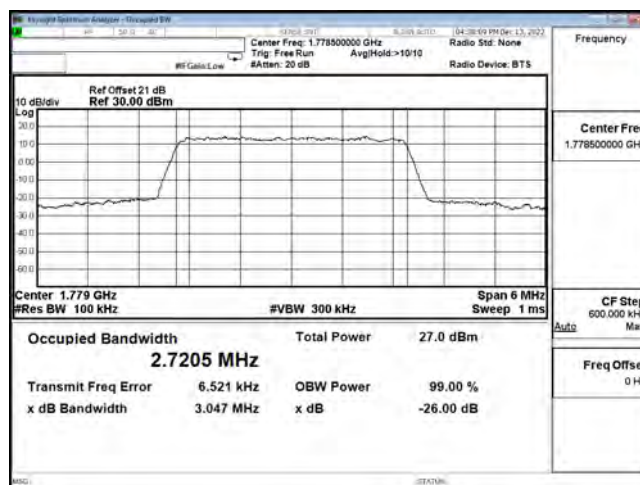
OCC B66 3 M CH132322 64QAM



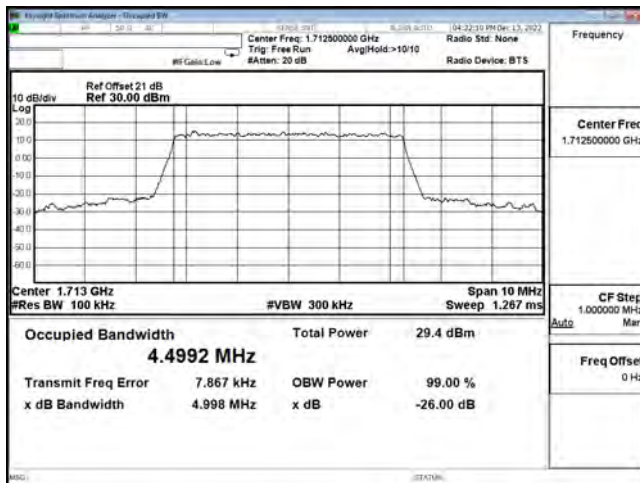
OCC B66 3 M CH132657 QPSK



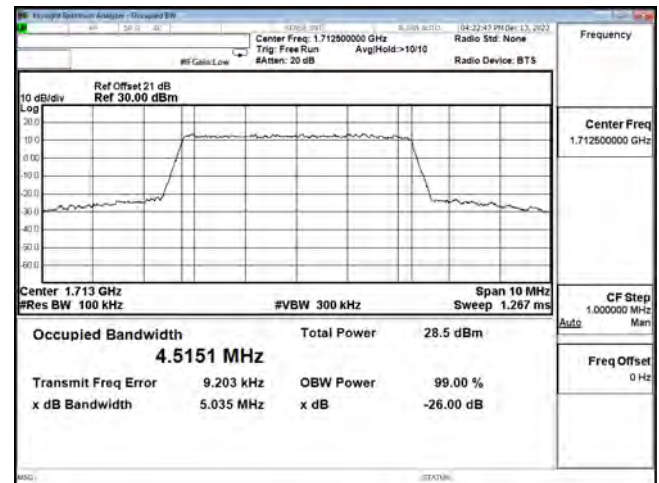
OCC B66 3 M CH132657 16QAM



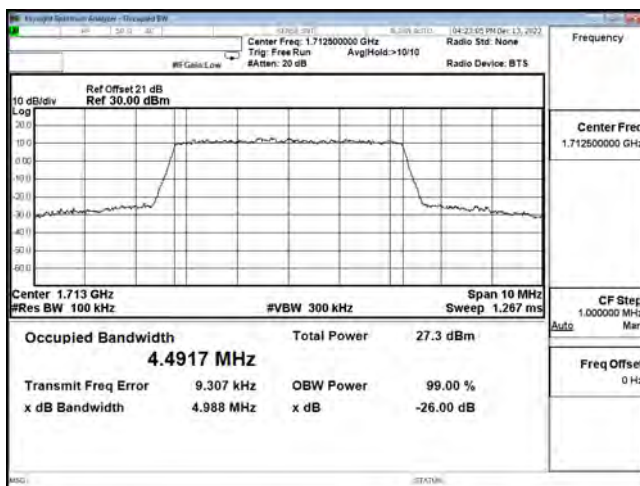
OCC B66 3 M CH132657 64QAM



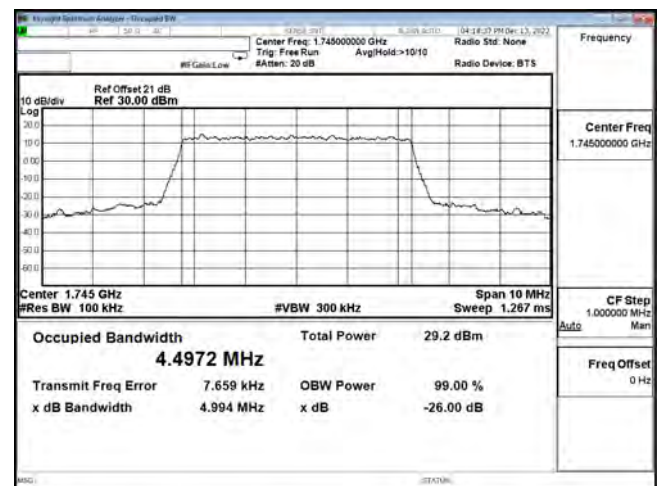
OCC B66 5 M CH131997 QPSK



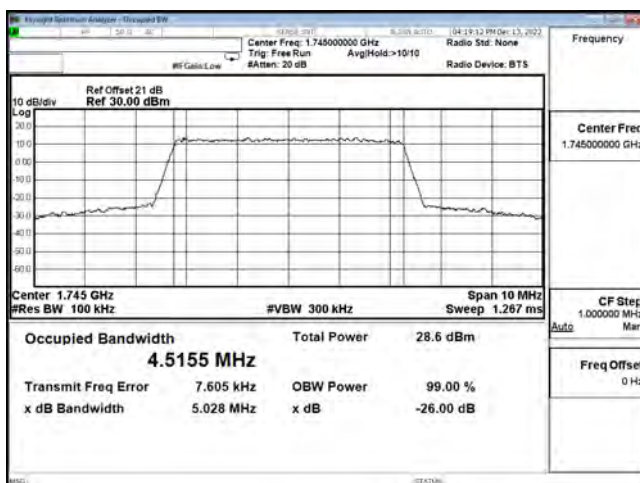
OCC B66 5 M CH131997 16QAM



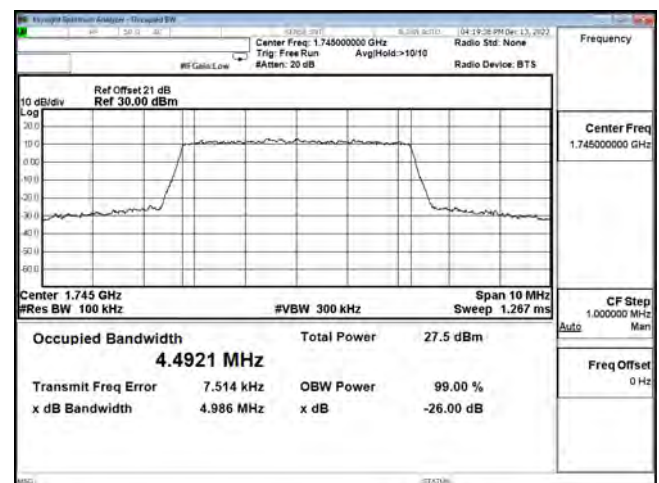
OCC B66 5 M CH131997 64QAM



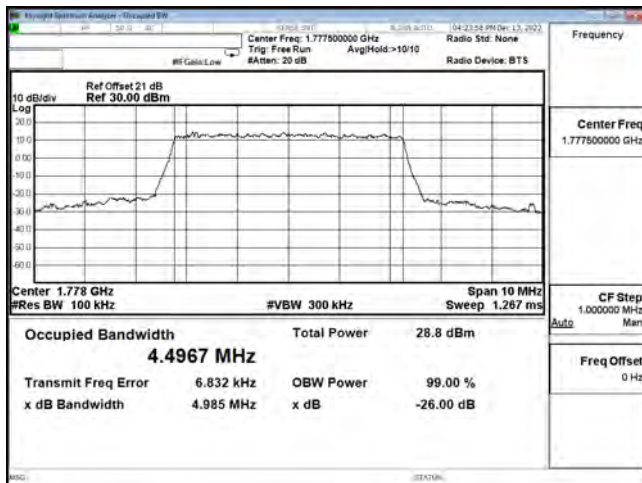
OCC B66 5 M CH132322 QPSK



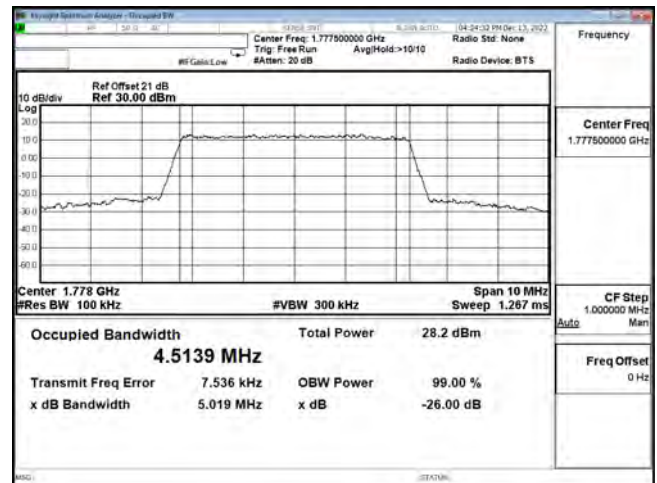
OCC B66 5 M CH132322 16QAM



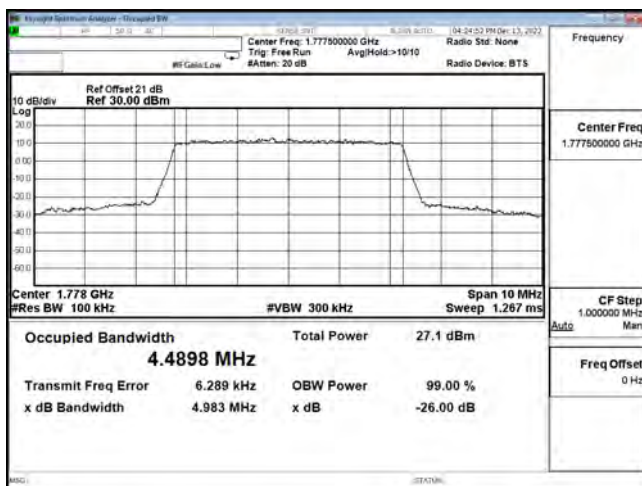
OCC B66 5 M CH132322 64QAM



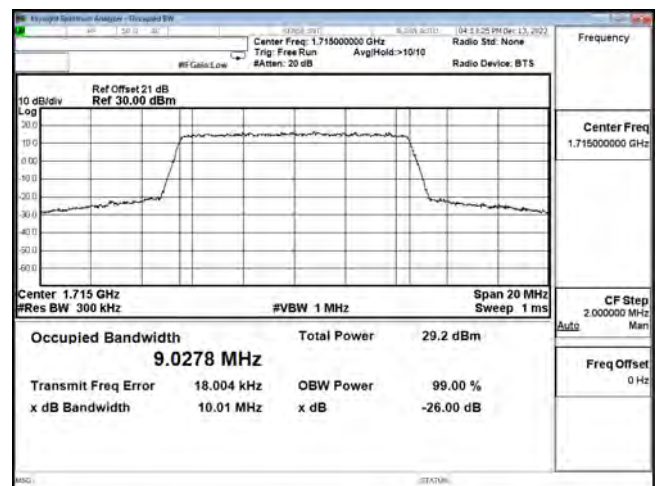
OCC B66 5 M CH132647 QPSK



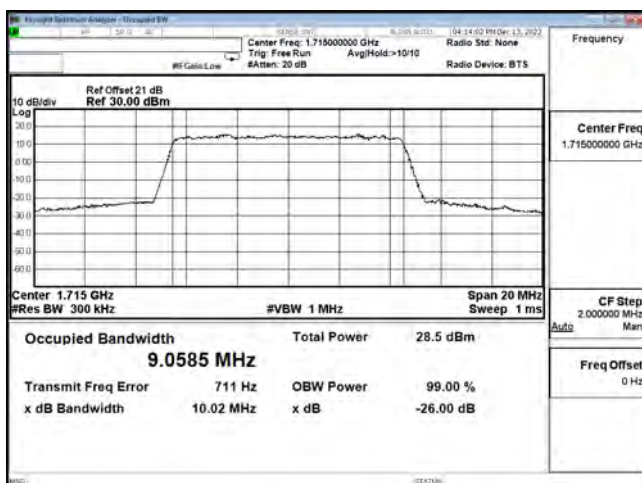
OCC B66 5 M CH132647 16QAM



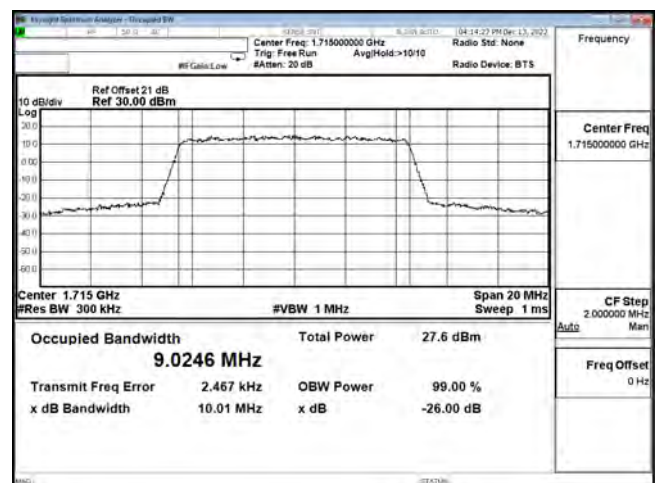
OCC B66 5 M CH132647 64QAM



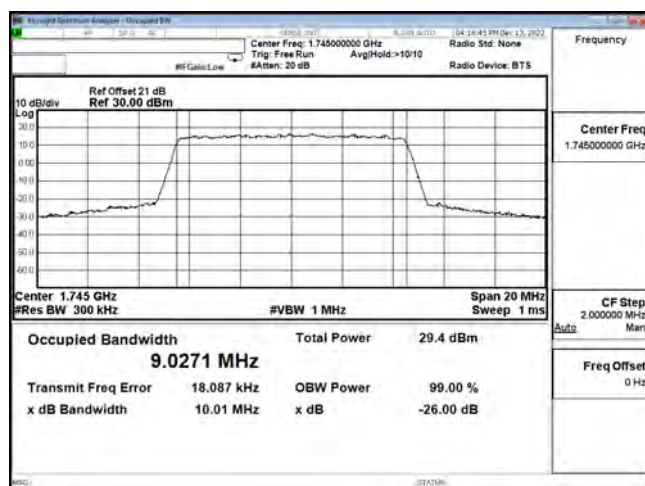
OCC B66 10 M CH132022 QPSK



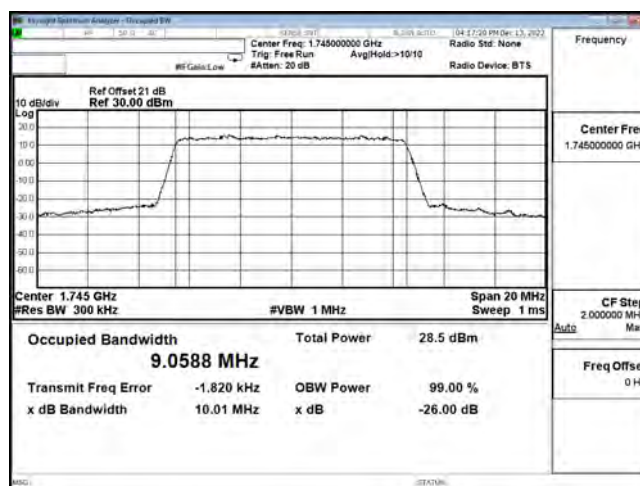
OCC B66 10 M CH132022 16QAM



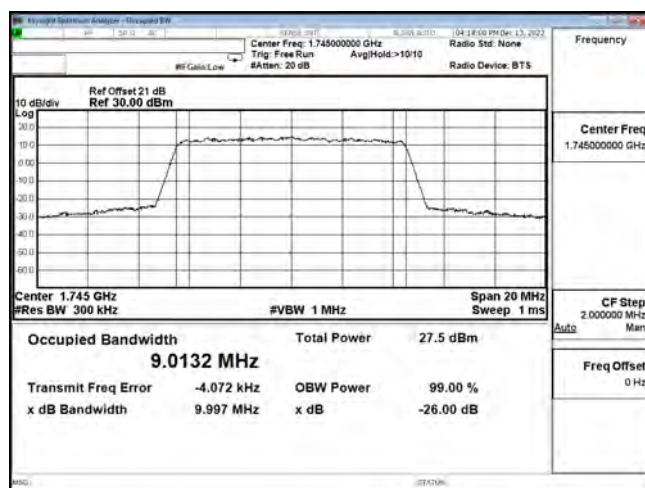
OCC B66 10 M CH132022 64QAM



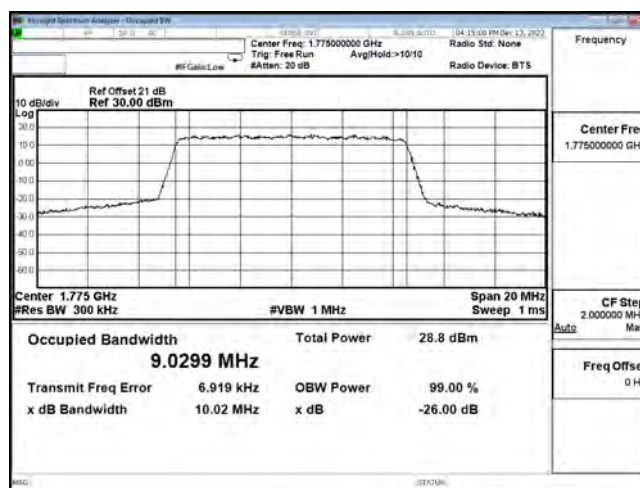
OCC B66 10 M CH132322 QPSK



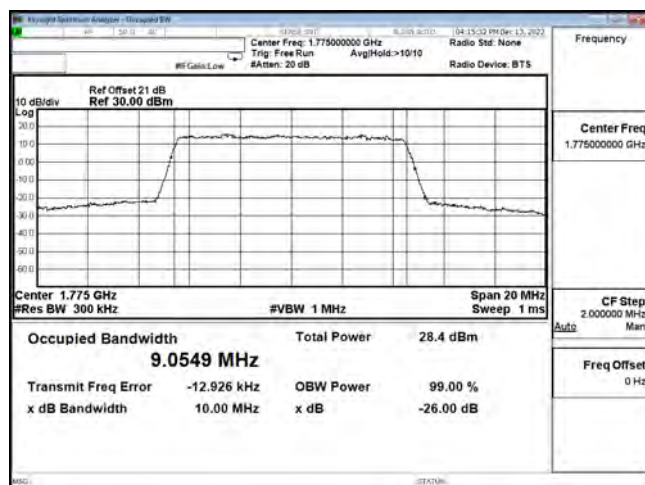
OCC B66 10 M CH132322 16QAM



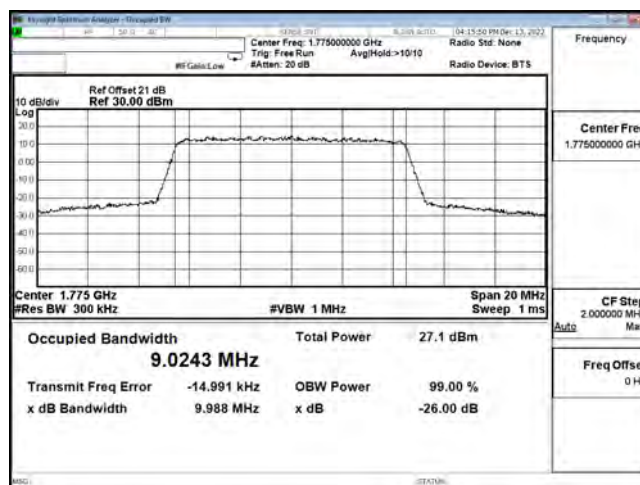
OCC B66 10 M CH132322 64QAM



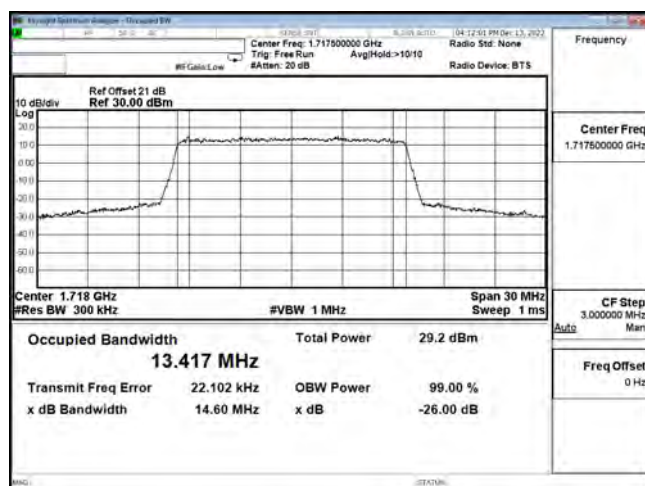
OCC B66 10 M CH132622 QPSK



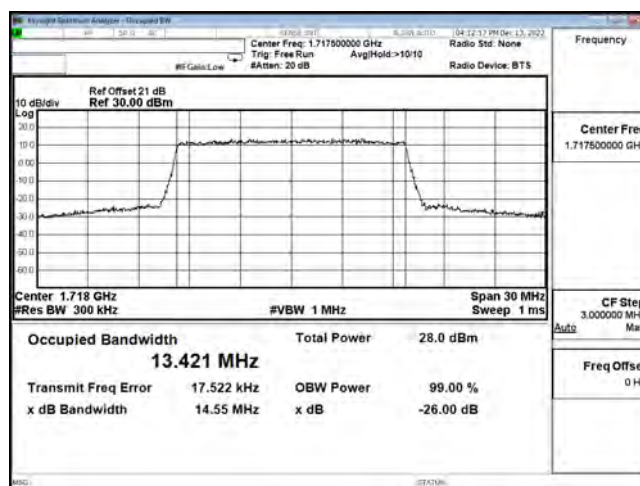
OCC B66 10 M CH132622 16QAM



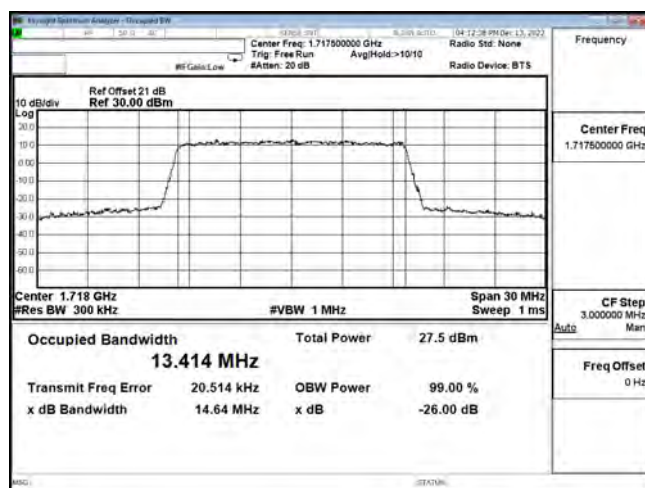
OCC B66 10 M CH132622 64QAM



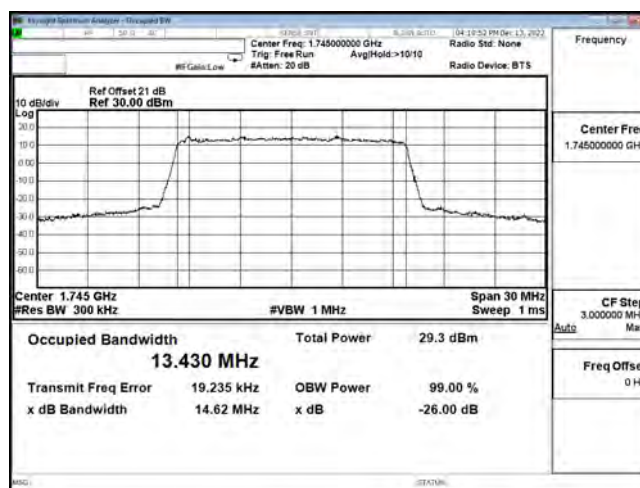
OCC B66 15 M CH132047 QPSK



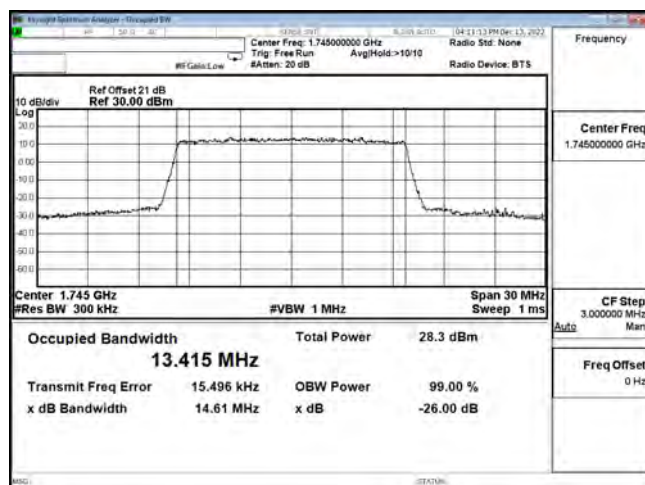
OCC B66 15 M CH132047 16QAM



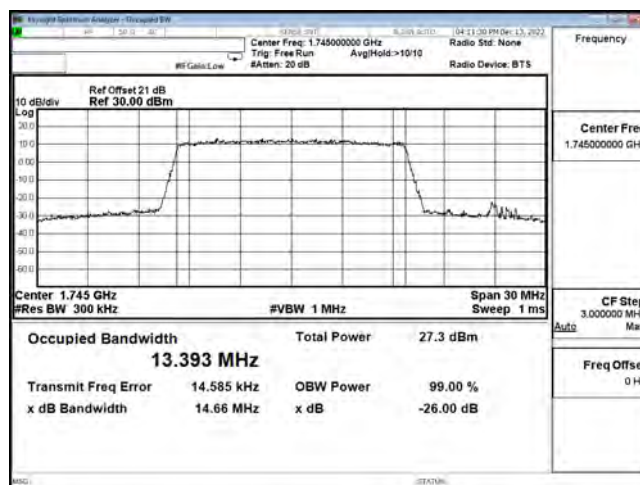
OCC B66 15 M CH132047 64QAM



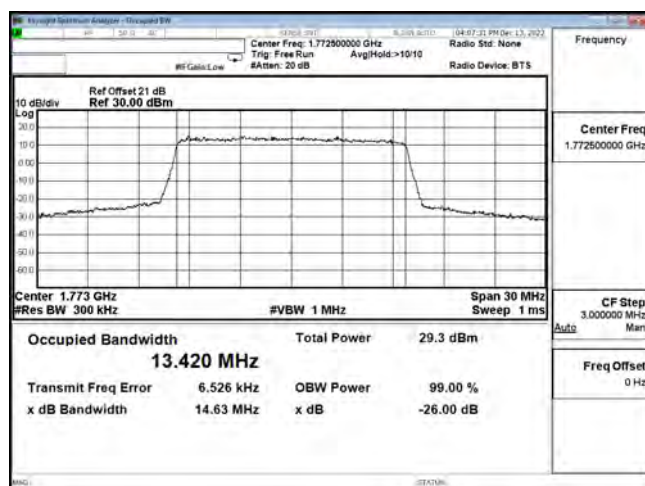
OCC B66 15 M CH132322 QPSK



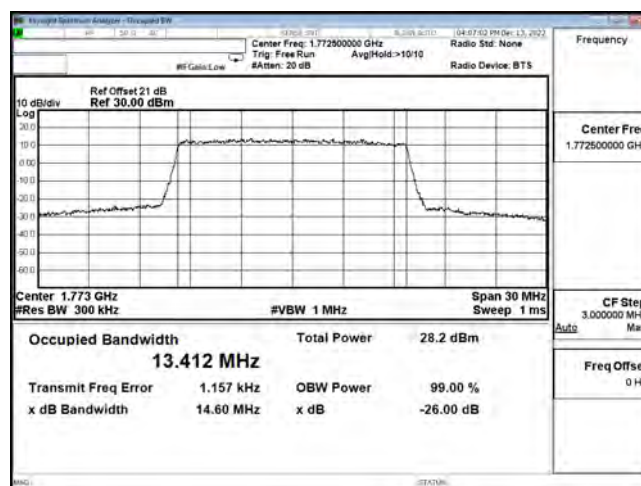
OCC B66 15 M CH132322 16QAM



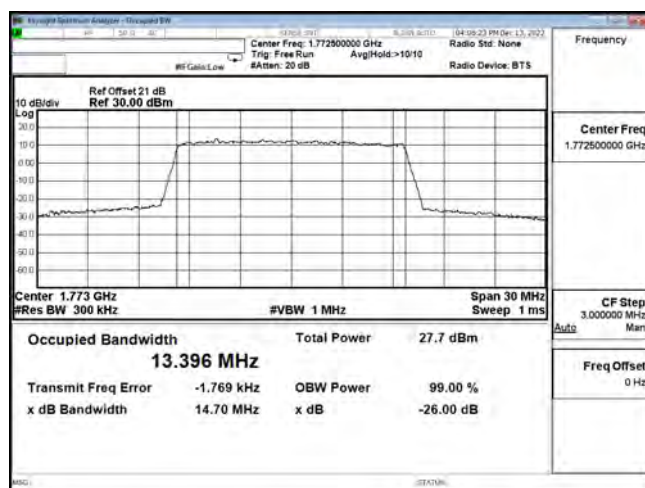
OCC B66 15 M CH132322 64QAM



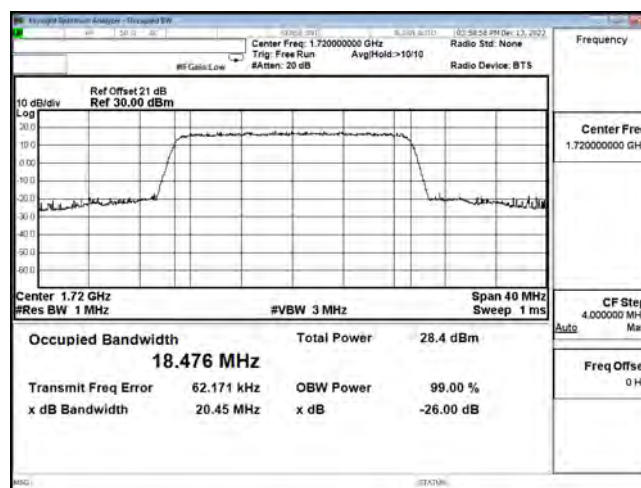
OCC B66 15 M CH132597 QPSK



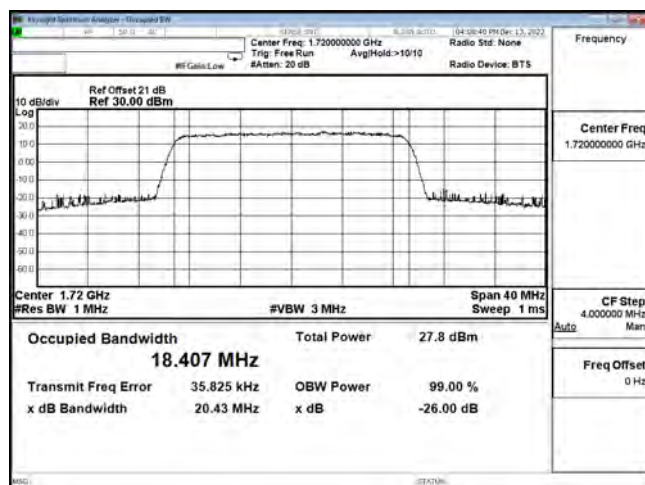
OCC B66 15 M CH132597 16QAM



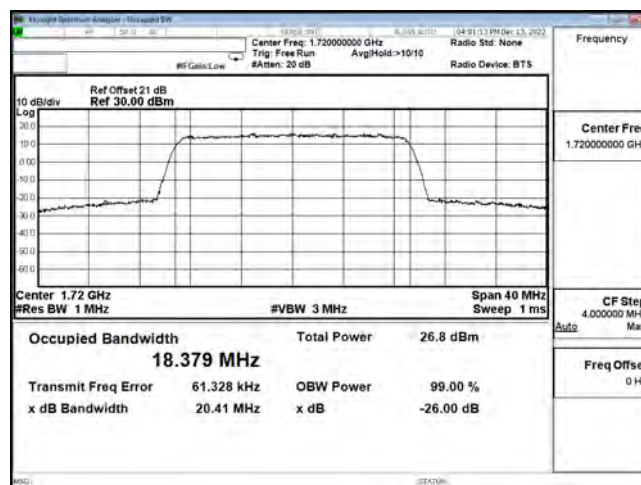
OCC B66 15 M CH132597 64QAM



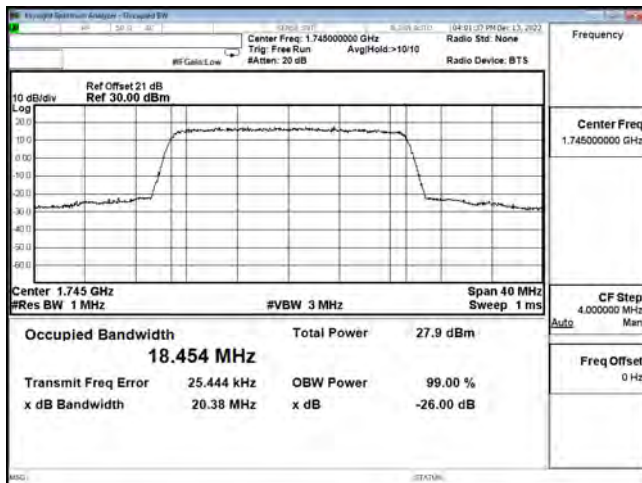
OCC B66 20 M CH132072 QPSK



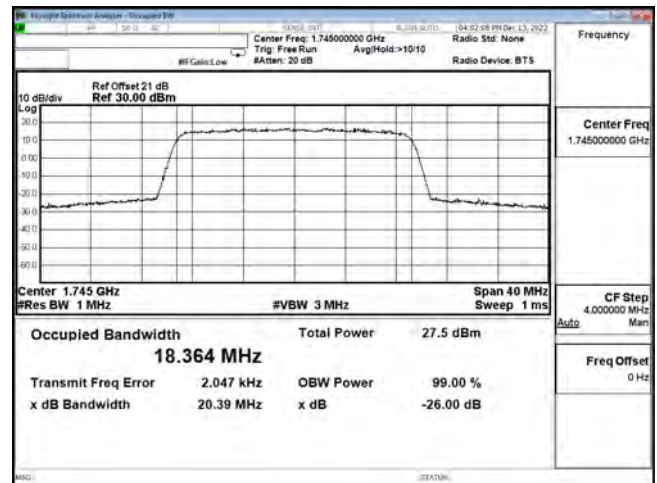
OCC B66 20 M CH132072 16QAM



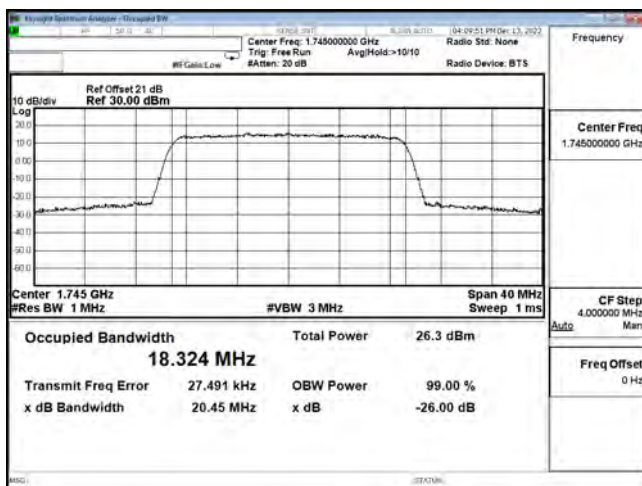
OCC B66 20 M CH132072 64QAM



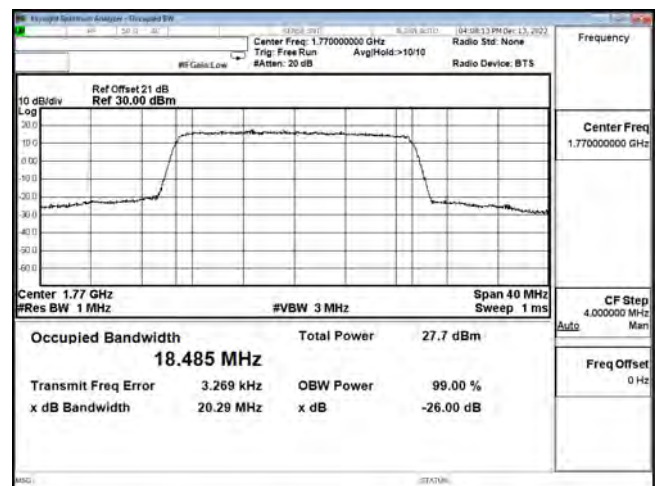
OCC B66 20 M CH132322 QPSK



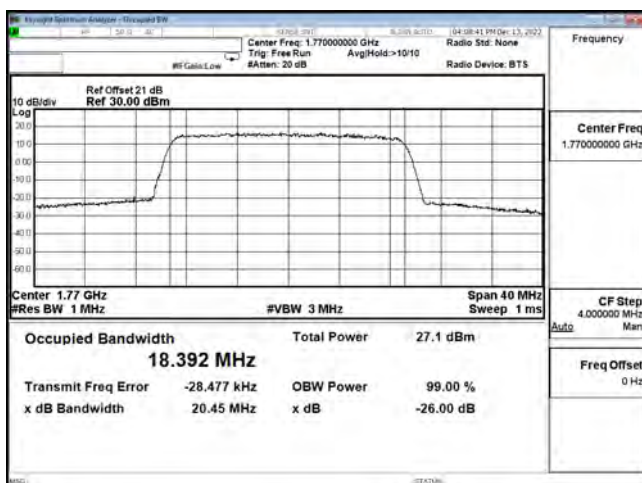
OCC B66 20 M CH132322 16QAM



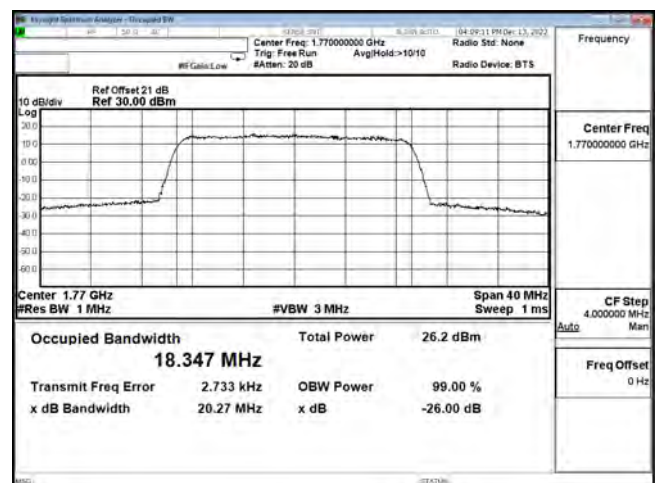
OCC B66 20 M CH132322 64QAM



OCC B66 20 M CH132572 QPSK



OCC B66 20 M CH132572 16QAM



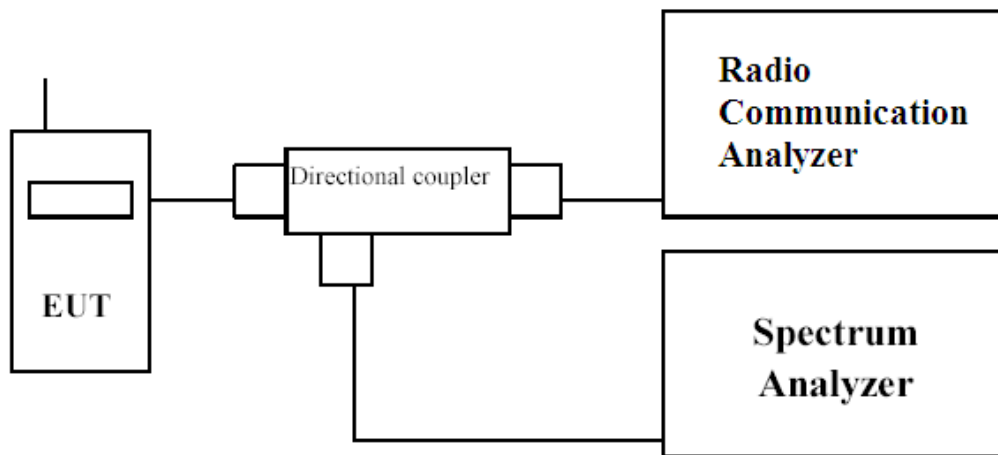
OCC B66 20 M CH132572 64QAM

5. Spurious Emission At Antenna Terminals (+/-1MHz)

5.1 Test Specification

According to Part 2.1051, 22.917, 24.238, 27.53, RSS-GEN, RSS-130, RSS-132, RSS-133, RSS-139, RSS-199.

5.2 Setup



5.3 Limits

The spurious (unwanted) emission limits specified in the individual FCC rule parts applicable to licensed digital transmitters (typically referred to under the heading 'emission limits') normally apply to any and all emissions that are present outside of the authorized frequency band/block and apply to emissions in both the out-of-band and spurious domains. unwanted emissions are required by the licensed rule parts to be attenuated below the transmitter power by a factor of at least $43 + 10 \log (P)$ dB, where P represents the transmitter power expressed in watts

For LTE Band 13:

On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations

For LTE Band 7/38/41:

27.53(m) For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

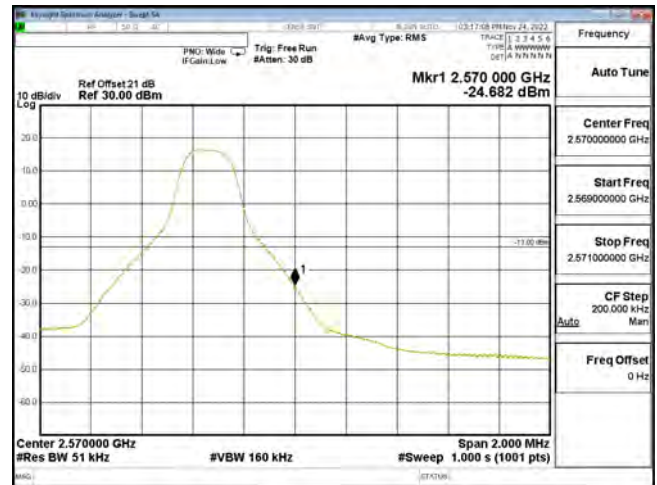
5.4 Test Procedure

In accordance with Part 22.917, 24.238, 27.53 at least 1 % of the emission bandwidth was used for the resolution and video bandwidths up to 1 MHz away from the Block Edge. At greater than 1 MHz, the resolution and video bandwidth were increased to 1 MHz / 3 MHz.

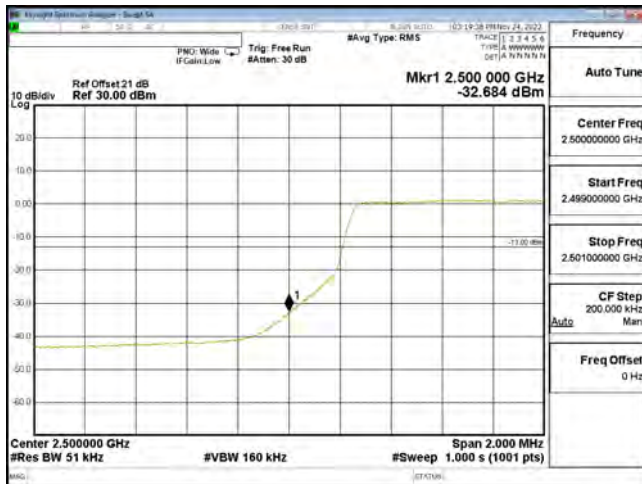
The reference power and path losses of all channels used for testing in each frequency block were measured.

5.5 Test Result of Spurious Emission At Antenna Terminals (+/-1MHz)

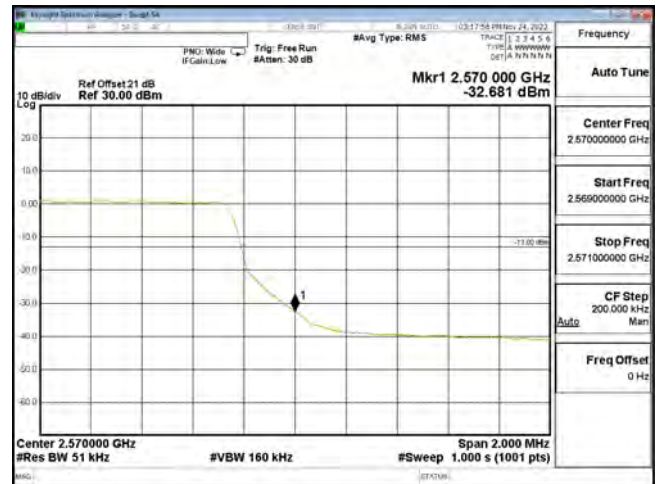
LTE Band 7



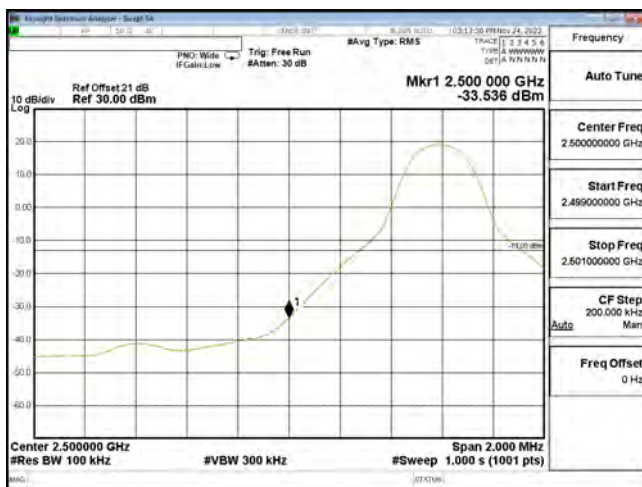
Bandedge B7 5 M CH20775 QPSK(1,0)



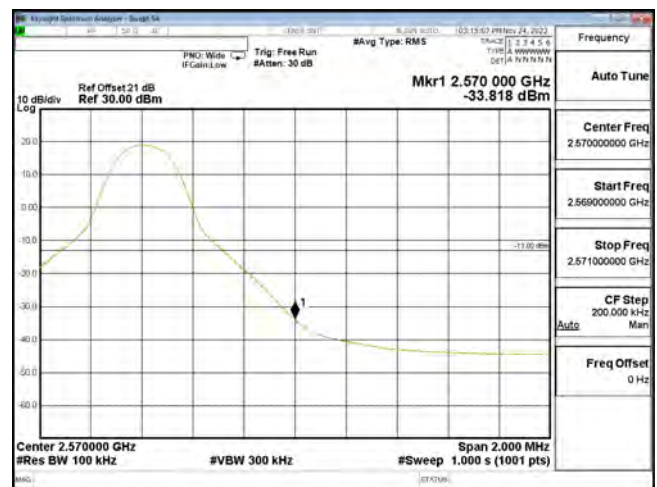
Bandedge B7 5 M CH21425 QPSK(1,24)



Bandedge B7 5 M CH20775 QPSK(25,0)

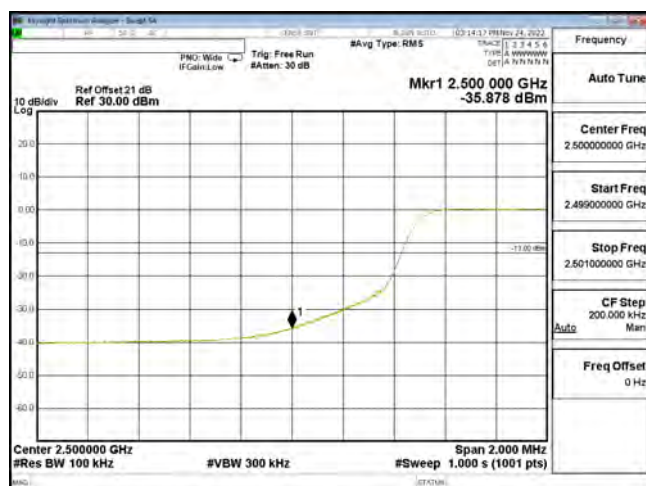


Bandedge B7 5 M CH21425 QPSK(25,0)

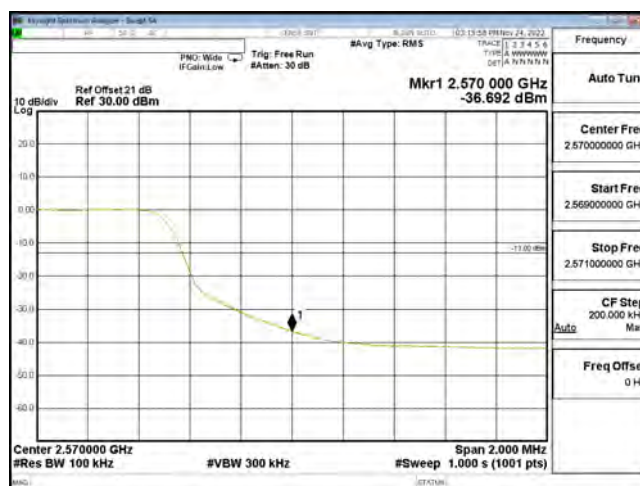


Bandedge B7 10 M CH20800 QPSK(1,0)

Bandedge B7 10 M CH21400 QPSK(1,49)



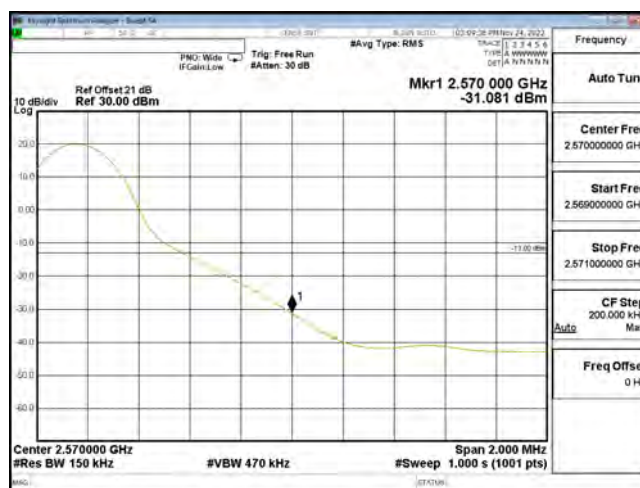
Bandedge B7 10 M CH20800 QPSK(50,0)



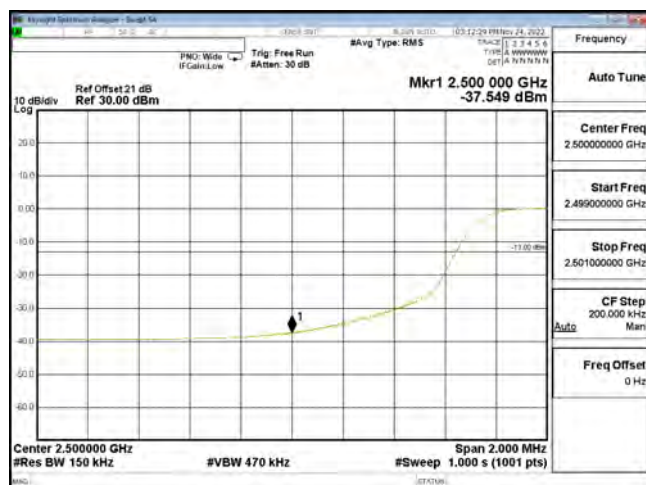
Bandedge B7 10 M CH21400 QPSK(50,0)



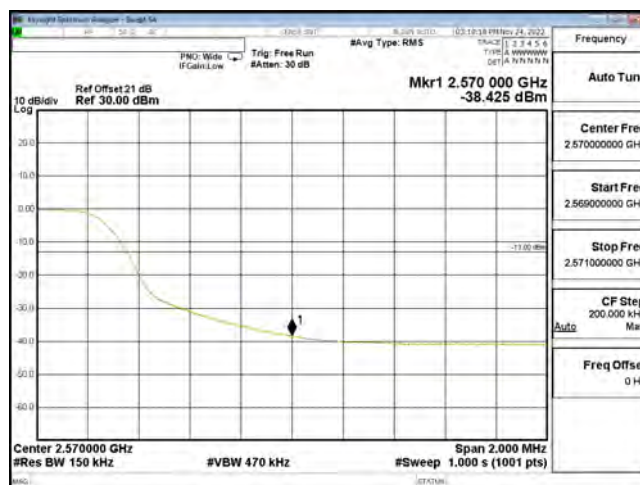
Bandedge B7 15 M CH20825 QPSK(1,0)



Bandedge B7 15 M CH21375 QPSK(1,74)



Bandedge B7 15 M CH20825 QPSK(75,0)



Bandedge B7 15 M CH21375 QPSK(75,0)