



Test report No.: 2360754R-RFUSV23S-A

TEST REPORT

Product Name	Mobile Computer
Trademark	CIPHERLAB
Model and /or type reference	RK26
FCC Applicant's name / address	CipherLab Co., Ltd. 12F, 333, Dunhua S.Rd., Sec.2, Taipei, Taiwan
IC Applicant's name / address	CIPHERLAB CO. LTD. 12F, 333, Dunhua S.Rd., Sec.2, Taipei, Taiwan
Manufacturer's name	CIPHERLAB CO. LTD.
Test method requested, 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+A1, RSS-199 Issue 4
Test reference	FCC CFR Title 47 Part 2, TIA/EIA 603-E 2016, KDB 971168 D01v03r01, ANSI C63.26 2015, RSS-GEN Issue 5+A2
FCC ID	Q3N-RK26
IC	5121A-RK26
Verdict Summary	IN COMPLIANCE
Documented By (Senior Project Specialist / April Chen)	<i>April Chen</i>
Tested By (Engineer / Daniel Wu)	<i>Daniel Wu</i>
Approved By (Manager / Tim Sung)	<i>Tim Sung</i>
Date of Receipt	2023/06/28
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Appendix 1: EUT Test Photographs

Appendix 2: Product Photos - Please refer to the file: 2360754R-Product Photos

Competences and Guarantees

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

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The results presented in this Test Report apply only to the particular item under test established in this document.

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General conditions

1. The test results relate only to the samples tested.
2. 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.
3. This report must not be used to claim product endorsement by TAF or any agency of the government.
4. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.
5. 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.

Revision History

Report No.	Version	Description	Issued Date
2360754R-RFUSV23S-A	V1.0	Initial issue of report.	2023/09/08

1. General Information

1.1 EUT Description

Product Name	Mobile Computer
Model No.	RK26
Trade Name	CIPHERLAB
IMEI No.	35453833
FCC ID	Q3N-RK26
IC	5121A-RK26
EUT Rated Voltage	AC 100-240V / 50-60Hz (Power by Adapter) DC 3.8V (Power by Battery)
EUT Test Voltage	AC 120V / 60Hz and DC 5V (Power by Adapter) DC 3.8V (Power by Battery)
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)	MFR: CIPHERLAB, M/N: RK25 SNAP ON Non-Shielded, 1.5m, with one ferrite core bonded.
Power Adapter #1 (Optional)	MFR: Sunny, M/N: SYS1561-1005 Input: AC 100-240V~ 1.0A MAX, 50-60Hz Output: +5.0V=2.0A
Power Adapter #2 (Optional)	MFR: CWT, M/N: 2AEA010BC3D Input: AC 100-240V~ 0.35A, 50-60Hz Output: 5.0V=2.0A, 10.0W

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

1.2 Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	Auden	KZLT0LS260011 (LTE Main, TX/RX)	PIFA	1.4 dBi for LTE Band 2 / 25 2.8 dBi for LTE Band 4 / 66 2.6 dBi for LTE Band 5 / 26 (Part 22) 2.5 dBi for LTE Band 7 3.0 dBi for LTE Band 12 / 17 1.7 dBi for LTE Band 13 2.5 dBi for LTE Band 38 / 41
2	Auden	KZLT0LS260011 (LTE Aux, RX)	PIFA	-3.5 dBi for LTE Band 2 / 25 -3.6 dBi for LTE Band 4 / 66 -5.0 dBi for LTE Band 5 / 26 (Part 22) -1.9 dBi for LTE Band 7 -5.5 dBi for LTE Band 12 / 17 -5.5 dBi for LTE Band 13 -1.9 dBi for LTE Band 38 / 41

Note: The antenna gain as by the manufacturer provided.

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:

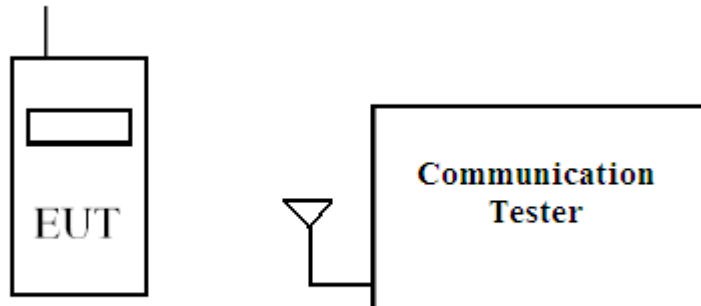
Test Mode	Mode 1: LTE Band 2 / 25 Mode 2: LTE Band 4 / 66 Mode 3: LTE Band 5 / 26 (Part 22) Mode 4: LTE Band 7 Mode 5: LTE Band 12 / 17 Mode 6: LTE Band 13 Mode 7: LTE Band 38 / 41
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Note:

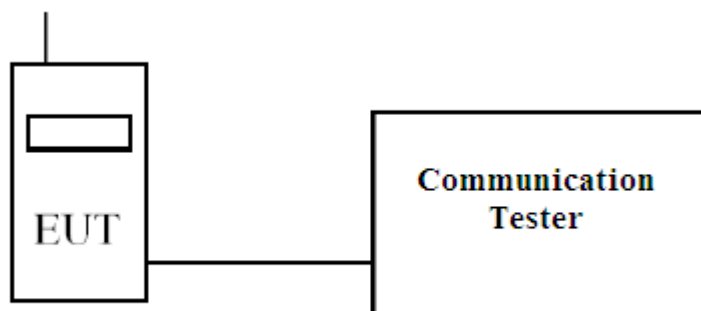
1. Regards to the frequency band operation; the lowest, middle and highest frequency of channel were selected to perform the test, and then shown on this report.
2. This device was tested under all configurations, combinations, bandwidths, RB configurations and modulations, and the worst case was found 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)	24.5°C	2023/07/21 ~ 2023/09/01
	Humidity (%RH)	58.3 %	
Conductive	Temperature (°C)	25.0°C	
	Humidity (%RH)	65.0 %	

USA	FCC Registration Number: TW0033
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

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	MY53470892	2022/11/07	2023/11/06
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	6201091166	2023/03/22	2024/03/21

Radiated / HY-CB03

Instrument Description	Manufacturer	Model No.	Serial No.	Last Calibration	Next Calibration
Bi-Log Antenna	SCHWARZBECK	VULB9168	9168-0678	2021/09/23	2023/09/22
Horn Antenna	Com-Power	AH-840	101100	2021/10/04	2023/10/03
Horn Antenna	RF SPIN	DRH18-E	210507A18ES	2023/05/11	2024/05/10
Pre-Amplifier	SGH	0301	20211007-10	2023/01/10	2024/01/09
Pre-Amplifier	SGH	PRAMP118	20200701	2023/01/10	2024/01/09
Pre-Amplifier	EMCI	EMC05820SE	980310	2023/01/10	2024/01/09
Pre-Amplifier	EMCI	EMC184045SE	980369	2023/01/10	2024/01/09
Coaxial Cable	EMCI	EMC102-KM-K M-600	1160314		
Coaxial Cable	EMCI	EMC102-KM-K M-7000	170242		
Spectrum Analyzer	R&S	FSV3044	101113	2023/02/04	2024/02/03
Coaxial Cable	SGH	SGH18	2021005-1	2023/01/10	2024/01/09
Coaxial Cable	SGH	SGH18	202108-4		
Coaxial Cable	SGH	HA800	GD20110223-1		
Coaxial Cable	SGH	HA800	GD20110222-3		
Radio Communication Analyzer	Anritsu	MT8820C	6201091166	2023/03/22	2024/03/21

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).

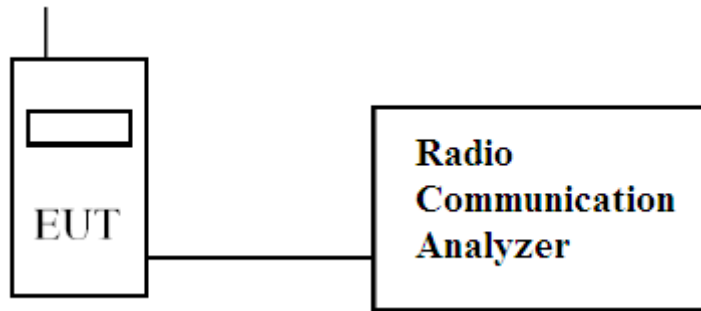
Test Item	Uncertainty
Conducted Output Power	± 1.58 dB
Occupied Bandwidth	± 1580.61 Hz
Peak to Average Ratio	± 2.14 dB
Conducted Band Edge	± 2.14 dB
Conducted Spurious Emissions	± 2.14 dB
Radiated Spurious Emissions	30MHz~1GHz: ± 5.88 dB 1GHz~18GHz: ± 3.11 dB 18GHz~40GHz: ± 3.09 dB
Frequency Stability	± 0.42 ppm

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	21.04	21.08	20.84	20.92	21.06	21.19
		1	#Mid	21.26	21.32	21.25	21.08	21.17	21.45
		1	#Max	20.94	21.18	20.68	20.89	20.96	21.20
		50%	#0	20.42	20.30	20.17	20.26	20.29	20.43
		50%	#Mid	20.41	20.23	20.23	20.28	20.27	20.43
		50%	#Max	20.40	20.21	20.20	20.25	20.13	20.42
		100%	--	20.21	20.25	20.25	20.25	20.14	20.40
	16QAM	1	#0	20.24	20.08	19.97	20.07	19.92	20.34
		1	#Mid	20.26	20.09	19.98	20.34	20.27	20.50
		1	#Max	20.14	20.03	19.96	19.97	19.81	20.11
		50%	#0	19.34	19.14	19.07	19.25	19.25	19.50
		50%	#Mid	19.26	19.26	19.05	19.25	19.16	19.40
		50%	#Max	19.24	19.23	19.05	19.23	19.09	19.34
		100%	--	19.16	19.07	19.36	19.22	19.28	19.50
	64QAM	1	#0	19.11	19.14	19.15	19.16	19.40	19.44
		1	#Mid	19.36	19.15	19.41	19.28	19.42	19.50
		1	#Max	19.13	19.09	19.14	19.18	19.27	19.49
		50%	#0	18.29	18.10	17.99	18.23	18.38	18.49
		50%	#Mid	18.15	18.15	17.99	18.16	18.36	18.34
		50%	#Max	18.30	18.23	18.18	18.14	18.20	18.38
		100%	--	18.10	18.13	18.01	18.22	18.05	18.48
Mid	QPSK	1	#0	21.17	21.22	21.08	21.04	21.02	21.42
		1	#Mid	21.22	21.34	21.33	21.23	21.07	21.49
		1	#Max	21.09	21.13	21.00	20.79	20.77	21.25
		50%	#0	20.43	20.25	20.22	20.15	20.22	20.44
		50%	#Mid	20.37	20.16	20.26	20.23	20.18	20.45
		50%	#Max	20.40	20.25	20.22	20.14	20.18	20.40
		100%	--	20.16	20.19	20.17	20.20	20.12	20.40
	16QAM	1	#0	20.01	20.03	19.77	19.92	19.81	20.23
		1	#Mid	20.41	20.09	20.01	20.23	19.98	20.42
		1	#Max	20.22	20.00	19.84	19.89	19.90	20.20
		50%	#0	19.25	19.18	19.02	19.02	19.09	19.39
		50%	#Mid	19.39	19.20	19.25	19.17	19.22	19.48
		50%	#Max	19.24	19.23	19.20	19.13	19.21	19.45
		100%	--	18.99	19.30	19.21	19.17	19.19	19.46
	64QAM	1	#0	19.08	19.11	18.99	19.08	19.46	19.47
		1	#Mid	19.39	19.41	19.48	19.20	19.49	19.50
		1	#Max	19.17	19.07	18.97	19.07	19.38	19.44
		50%	#0	18.32	18.31	18.07	18.07	18.24	18.43
		50%	#Mid	18.30	18.13	18.10	18.15	18.32	18.50
		50%	#Max	18.27	18.08	18.05	18.36	18.18	18.46
		100%	--	18.04	18.12	17.92	18.12	18.00	18.50

High	QPSK	1	#0	20.95	21.02	20.85	20.96	21.10	21.06
		1	#Mid	21.07	21.45	21.10	21.09	21.15	21.46
		1	#Max	20.73	20.94	20.94	20.98	21.13	21.34
		50%	#0	20.33	20.41	20.07	20.15	20.12	20.45
		50%	#Mid	20.23	20.23	20.13	20.16	20.07	20.46
		50%	#Max	20.32	20.24	20.20	20.08	20.08	20.41
		100%	--	19.76	20.23	20.06	20.15	20.14	20.39
	16QAM	1	#0	20.02	19.85	19.77	19.99	19.96	20.21
		1	#Mid	20.16	20.06	19.92	20.06	19.99	20.31
		1	#Max	20.12	19.96	19.91	19.95	19.76	20.13
		50%	#0	19.18	19.35	19.05	19.03	19.12	19.47
		50%	#Mid	19.24	19.27	19.11	19.03	19.16	19.43
		50%	#Max	19.24	19.27	19.18	19.04	19.01	19.35
		100%	--	19.16	19.21	19.23	19.08	19.01	19.40
	64QAM	1	#0	18.90	19.06	18.92	19.17	19.16	19.38
		1	#Mid	19.35	19.35	19.25	19.22	19.35	19.40
		1	#Max	18.99	19.18	19.06	19.11	19.11	19.36
		50%	#0	18.06	18.31	18.13	18.06	18.23	18.34
		50%	#Mid	18.28	18.24	18.02	18.06	18.22	18.34
		50%	#Max	18.12	18.07	18.31	18.03	18.09	18.31
		100%	--	17.85	18.20	17.80	18.10	18.05	18.39

Channel	Modulation	LTE Band 4/66 (1700 MHz)							
		RB	RB	Maximum Conducted Output Power					
		No.	Offset	1.4M	3M	5M	10M	15M	20M
Low	QPSK	1	#0	22.59	22.41	22.45	22.63	22.59	22.84
		1	#Mid	22.85	22.77	22.98	22.88	22.84	23.05
		1	#Max	22.53	22.72	22.73	22.50	22.61	22.89
		50%	#0	22.67	21.75	21.71	21.84	21.78	21.89
		50%	#Mid	22.71	21.70	21.72	21.89	21.89	21.91
		50%	#Max	22.84	21.73	21.73	21.89	21.95	21.92
		100%	--	21.77	21.83	21.80	21.89	21.92	22.01
	16QAM	1	#0	21.63	21.60	21.59	21.52	21.62	21.54
		1	#Mid	21.85	21.66	21.63	21.91	21.65	21.92
		1	#Max	21.70	21.60	21.60	21.51	21.56	21.72
		50%	#0	21.78	20.51	20.69	20.65	20.62	20.83
		50%	#Mid	21.83	20.58	20.68	21.03	20.81	20.76
		50%	#Max	21.79	20.53	20.67	20.93	20.77	20.94
		100%	--	20.52	20.72	20.84	20.80	20.94	20.80
	64QAM	1	#0	20.78	20.81	20.65	20.78	20.83	20.76
		1	#Mid	20.98	21.20	21.02	20.86	20.87	21.16
		1	#Max	20.74	20.84	20.69	20.84	20.79	20.86
		50%	#0	20.69	19.61	19.52	19.60	19.74	19.77
		50%	#Mid	20.89	19.77	19.51	19.65	19.74	19.90
		50%	#Max	20.77	19.58	19.57	19.67	19.88	19.91
		100%	--	19.58	19.74	19.71	19.90	19.79	19.88
Mid	QPSK	1	#0	23.01	22.93	22.84	23.00	23.05	23.30
		1	#Mid	23.22	23.20	23.05	23.15	23.09	23.31
		1	#Max	23.04	22.77	22.85	23.02	23.04	23.05
		50%	#0	23.01	22.05	22.09	22.13	22.16	22.19
		50%	#Mid	23.14	22.07	22.14	22.07	22.10	22.09
		50%	#Max	23.18	22.12	22.14	22.11	22.10	22.07
		100%	--	22.02	22.07	22.10	22.06	22.10	22.13
	16QAM	1	#0	21.81	21.79	21.97	21.99	21.96	21.98
		1	#Mid	22.26	22.15	22.01	22.22	21.98	22.26
		1	#Max	21.93	21.77	21.89	21.92	21.82	22.12
		50%	#0	22.13	21.01	21.05	21.00	21.09	21.11
		50%	#Mid	22.19	20.95	21.08	21.02	21.06	21.08
		50%	#Max	22.13	20.98	21.04	21.04	21.06	21.25
		100%	--	21.10	21.07	21.07	21.02	21.06	21.08
	64QAM	1	#0	20.95	21.15	21.02	21.11	21.17	21.12
		1	#Mid	21.41	21.38	21.17	21.19	21.41	21.47
		1	#Max	21.39	21.11	20.93	21.17	21.35	21.37
		50%	#0	21.10	20.15	19.91	20.32	20.26	20.06
		50%	#Mid	21.09	20.01	19.96	19.97	20.23	20.08
		50%	#Max	21.12	20.16	19.92	20.28	20.13	19.98
		100%	--	20.05	20.10	20.00	20.12	20.20	20.00

High	QPSK	1	#0	22.64	22.86	22.76	22.84	22.84	23.01
		1	#Mid	22.96	22.88	22.85	22.88	22.89	23.05
		1	#Max	22.60	22.67	22.61	22.59	22.88	22.95
		50%	#0	22.92	21.90	21.92	21.91	21.96	22.05
		50%	#Mid	22.87	21.83	21.94	21.86	21.93	21.98
		50%	#Max	22.88	21.87	21.92	21.85	21.87	21.92
		100%	--	21.87	21.86	21.85	21.88	21.93	22.03
	16QAM	1	#0	21.60	21.70	21.79	21.75	21.74	21.68
		1	#Mid	22.06	22.01	21.85	21.89	22.06	22.07
		1	#Max	21.69	21.61	21.70	21.55	22.01	21.52
		50%	#0	21.89	20.63	20.68	20.77	20.89	20.90
		50%	#Mid	22.04	20.70	20.61	20.81	20.89	20.84
		50%	#Max	21.96	20.56	20.68	20.82	20.92	20.75
		100%	--	20.83	20.73	20.71	20.71	20.88	20.87
	64QAM	1	#0	20.74	21.32	20.81	20.90	21.08	21.07
		1	#Mid	21.21	21.35	20.83	20.91	21.17	21.40
		1	#Max	20.87	21.30	20.71	20.78	20.85	20.76
		50%	#0	20.45	20.03	19.72	19.69	19.92	19.92
		50%	#Mid	20.46	19.88	19.68	19.74	19.81	19.84
		50%	#Max	20.51	19.91	19.64	19.63	19.84	19.75
		100%	--	19.68	19.97	19.86	19.88	19.78	19.78

Channel	Modulation	LTE Band 5/26 (850 MHz)						
		RB	RB	Maximum Conducted Output Power				
		No.	Offset	1.4M	3M	5M	10M	15M
Low	QPSK	1	#0	22.54	22.58	22.08	22.07	22.61
		1	#Mid	22.75	23.05	23.13	22.95	23.13
		1	#Max	22.47	22.97	22.33	22.11	22.99
		50%	#0	22.70	21.83	21.64	21.69	21.90
		50%	#Mid	22.63	21.98	22.07	22.02	22.17
		50%	#Max	22.53	22.00	21.81	21.79	22.01
		100%	--	21.65	21.87	21.75	21.79	22.03
	16QAM	1	#0	21.92	21.98	21.59	21.37	21.25
		1	#Mid	22.13	22.44	22.48	22.18	22.39
		1	#Max	22.06	22.25	21.72	21.38	21.01
		50%	#0	21.89	20.90	20.80	20.73	20.90
		50%	#Mid	21.92	21.07	21.12	20.97	21.10
		50%	#Max	21.91	21.16	20.87	20.73	20.95
		100%	--	20.76	21.04	20.81	20.80	20.97
	64QAM	1	#0	20.93	21.05	20.49	20.37	20.17
		1	#Mid	21.07	21.45	21.38	21.23	21.34
		1	#Max	21.03	21.23	20.63	20.36	19.92
		50%	#0	20.94	19.92	19.74	19.73	19.84
		50%	#Mid	20.96	20.09	20.10	20.00	20.19
		50%	#Max	20.93	20.09	19.83	19.78	19.90
		100%	--	19.58	19.95	19.74	19.78	19.88
Mid	QPSK	1	#0	22.58	22.18	22.28	22.12	22.66
		1	#Mid	22.59	22.92	22.83	22.73	23.16
		1	#Max	22.32	22.05	22.01	22.11	22.43
		50%	#0	22.42	22.00	21.87	21.89	22.03
		50%	#Mid	22.31	21.99	21.91	21.92	22.17
		50%	#Max	22.49	21.88	21.59	21.60	21.89
		100%	--	21.76	21.87	21.71	21.73	21.94
	16QAM	1	#0	21.74	21.86	21.47	21.44	21.51
		1	#Mid	21.85	22.09	22.12	21.92	22.18
		1	#Max	21.57	21.76	21.22	21.07	21.30
		50%	#0	21.39	21.00	20.95	20.85	20.97
		50%	#Mid	21.34	20.99	20.97	20.88	21.14
		50%	#Max	21.37	20.88	20.67	20.56	20.74
		100%	--	20.71	20.87	20.79	20.70	20.88
	64QAM	1	#0	20.53	20.93	20.41	20.34	20.42
		1	#Mid	20.65	21.10	21.09	20.82	21.20
		1	#Max	20.55	20.69	20.06	19.89	20.12
		50%	#0	20.63	20.08	19.92	19.81	19.94
		50%	#Mid	20.57	19.94	19.95	19.83	20.10
		50%	#Max	20.48	19.81	19.63	19.48	19.68
		100%	--	19.73	19.77	19.74	19.63	19.82

High	QPSK	1	#0	22.16	22.02	22.11	22.09	22.56
		1	#Mid	22.21	22.63	22.83	22.86	22.96
		1	#Max	22.06	22.01	22.03	22.02	22.12
		50%	#0	22.08	22.00	21.94	21.67	22.05
		50%	#Mid	21.84	21.91	22.06	21.97	22.08
		50%	#Max	21.87	21.66	21.58	21.77	22.02
		100%	--	21.25	21.81	21.74	21.69	21.84
	16QAM	1	#0	21.35	21.85	21.29	21.01	21.32
		1	#Mid	21.46	21.94	22.03	22.02	22.19
		1	#Max	21.04	21.23	20.78	20.79	20.92
		50%	#0	21.11	21.02	20.91	20.61	20.69
		50%	#Mid	21.04	20.94	21.04	20.93	21.05
		50%	#Max	20.90	20.69	20.56	20.74	21.00
		100%	--	20.29	20.83	20.72	20.66	20.79
	64QAM	1	#0	20.25	20.79	20.27	19.83	20.30
		1	#Mid	20.30	20.94	21.03	21.10	21.06
		1	#Max	19.98	20.15	19.67	19.61	19.71
		50%	#0	20.20	19.99	19.91	19.63	19.62
		50%	#Mid	20.10	19.92	20.05	19.99	19.99
		50%	#Max	20.06	19.67	19.56	19.70	19.97
		100%	--	19.07	19.79	19.70	19.59	20.81

Channel	Modulation	LTE Band 7 (2500 MHz)					
		RB	RB	Maximum Conducted Output Power			
		No.	Offset	5M	10M	15M	20M
Low	QPSK	1	#0	19.02	19.23	19.41	19.47
		1	#Mid	19.62	19.60	19.66	19.67
		1	#Max	19.28	19.23	19.34	19.36
		50%	#0	18.55	18.42	18.33	18.56
		50%	#Mid	18.52	18.46	18.61	18.72
		50%	#Max	18.47	18.46	18.53	18.68
		100%	--	18.51	18.45	18.53	18.61
	16QAM	1	#0	18.23	18.31	18.26	18.06
		1	#Mid	18.26	18.44	18.54	18.63
		1	#Max	18.18	18.34	18.41	18.19
		50%	#0	17.36	17.60	17.56	17.51
		50%	#Mid	17.47	17.60	17.74	17.66
		50%	#Max	17.18	17.71	17.72	17.63
		100%	--	17.43	17.45	17.67	17.63
	64QAM	1	#0	17.27	17.31	17.62	17.54
		1	#Mid	17.90	17.97	18.04	18.18
		1	#Max	17.40	17.44	17.73	17.56
		50%	#0	16.65	16.68	16.75	16.55
		50%	#Mid	16.69	16.46	16.75	16.75
		50%	#Max	16.34	16.47	16.90	16.70
		100%	--	16.33	16.50	16.72	16.43
Mid	QPSK	1	#0	19.25	19.11	19.35	19.37
		1	#Mid	19.67	19.61	19.69	19.74
		1	#Max	19.25	19.35	19.55	19.61
		50%	#0	18.26	18.41	18.63	18.72
		50%	#Mid	18.33	18.45	18.59	18.72
		50%	#Max	18.34	18.44	18.58	18.73
		100%	--	18.34	18.37	18.60	18.62
	16QAM	1	#0	17.99	18.22	18.35	18.19
		1	#Mid	18.13	18.48	18.38	18.49
		1	#Max	17.92	18.34	18.37	18.44
		50%	#0	17.36	17.17	17.60	17.74
		50%	#Mid	17.33	17.46	17.57	17.61
		50%	#Max	17.40	17.40	17.57	17.74
		100%	--	17.69	17.56	17.58	17.74
	64QAM	1	#0	17.40	17.42	17.51	16.33
		1	#Mid	17.87	17.85	18.01	18.11
		1	#Max	17.41	17.77	17.94	17.71
		50%	#0	16.69	16.53	16.79	16.56
		50%	#Mid	16.87	16.56	16.73	16.53
		50%	#Max	16.65	16.67	16.72	16.61
		100%	--	16.33	16.59	16.62	16.64

High	QPSK	1	#0	19.35	19.36	19.60	19.61
		1	#Mid	19.65	19.60	19.68	19.72
		1	#Max	19.27	19.59	19.67	19.69
		50%	#0	18.59	18.60	18.54	18.61
		50%	#Mid	18.71	18.57	18.63	18.72
		50%	#Max	18.65	18.53	18.63	18.66
		100%	--	18.67	18.48	18.59	18.68
	16QAM	1	#0	18.43	18.09	18.33	18.04
		1	#Mid	18.51	18.45	18.34	18.39
		1	#Max	18.42	18.43	18.26	18.30
		50%	#0	17.68	17.42	17.58	17.37
		50%	#Mid	17.71	17.74	17.47	17.63
		50%	#Max	17.61	17.57	17.54	17.64
		100%	--	17.82	17.63	17.63	17.45
	64QAM	1	#0	17.50	17.47	17.35	17.35
		1	#Mid	18.07	17.98	18.03	17.85
		1	#Max	17.61	17.76	17.88	17.83
		50%	#0	16.81	16.70	16.63	16.43
		50%	#Mid	17.05	16.70	16.67	16.60
		50%	#Max	16.81	16.75	16.75	16.54
		100%	--	16.56	16.48	16.80	16.52

Channel	Modulation	LTE Band 12/17 (700 MHz)					
		RB	RB	Maximum Conducted Output Power			
		No.	Offset	1.4M	3M	5M	10M
Low	QPSK	1	#0	22.52	22.56	22.51	22.58
		1	#Mid	22.62	22.82	22.82	23.10
		1	#Max	22.52	22.51	22.52	22.71
		50%	#0	22.46	21.81	21.81	21.86
		50%	#Mid	22.42	21.93	21.93	21.94
		50%	#Max	22.45	21.84	21.84	22.02
		100%	--	21.46	21.80	21.80	21.92
	16QAM	1	#0	21.42	21.35	21.35	21.57
		1	#Mid	21.49	21.74	21.66	21.98
		1	#Max	21.46	21.62	21.62	21.83
		50%	#0	21.00	20.79	20.79	20.76
		50%	#Mid	21.48	20.87	20.87	20.86
		50%	#Max	21.35	20.79	20.79	21.05
		100%	--	20.36	20.86	20.86	20.94
	64QAM	1	#0	20.64	20.62	20.62	20.71
		1	#Mid	20.75	21.18	21.18	21.00
		1	#Max	20.53	20.63	20.63	20.99
		50%	#0	20.01	19.87	19.87	19.87
		50%	#Mid	20.29	19.89	19.89	19.60
		50%	#Max	20.43	19.81	19.81	19.97
		100%	--	19.42	19.63	19.63	19.83
Mid	QPSK	1	#0	22.68	22.50	22.50	22.57
		1	#Mid	22.71	22.87	22.87	23.18
		1	#Max	22.51	22.66	22.66	22.70
		50%	#0	22.57	21.86	21.86	21.89
		50%	#Mid	22.63	21.87	21.87	21.91
		50%	#Max	22.69	21.84	21.84	21.88
		100%	--	21.64	21.80	21.80	21.87
	16QAM	1	#0	21.23	21.70	21.70	22.10
		1	#Mid	21.68	21.76	21.76	22.21
		1	#Max	21.63	21.70	21.70	21.92
		50%	#0	21.46	20.62	20.62	20.92
		50%	#Mid	21.63	20.91	20.91	20.96
		50%	#Max	21.64	20.90	20.90	21.02
		100%	--	20.34	20.71	20.71	21.07
	64QAM	1	#0	20.51	20.45	20.45	20.84
		1	#Mid	20.78	21.08	21.08	21.53
		1	#Max	20.49	20.72	20.72	20.98
		50%	#0	20.67	19.75	19.75	19.82
		50%	#Mid	20.59	19.80	19.80	19.97
		50%	#Max	20.40	19.78	19.78	19.96
		100%	--	19.41	19.73	19.73	20.09

High	QPSK	1	#0	22.57	22.51	22.51	22.59
		1	#Mid	22.61	23.01	23.01	23.08
		1	#Max	22.52	22.54	22.54	22.58
		50%	#0	22.54	21.83	21.83	21.93
		50%	#Mid	22.37	21.84	21.84	21.88
		50%	#Max	22.39	21.86	21.86	21.87
		100%	--	21.50	21.81	21.81	21.93
	16QAM	1	#0	21.44	21.68	21.68	21.69
		1	#Mid	21.75	21.74	21.76	22.01
		1	#Max	21.47	21.52	21.52	21.61
		50%	#0	21.63	20.74	20.74	20.98
		50%	#Mid	21.57	20.91	20.91	20.84
		50%	#Max	21.54	20.84	20.84	20.81
		100%	--	20.46	20.99	20.99	20.89
	64QAM	1	#0	20.75	20.78	20.78	20.79
		1	#Mid	20.89	20.92	20.92	21.35
		1	#Max	20.79	20.59	20.59	20.67
		50%	#0	20.63	19.90	19.90	19.89
		50%	#Mid	20.57	19.95	19.95	20.12
		50%	#Max	20.49	19.70	19.70	19.84
		100%	--	19.31	19.81	19.81	19.81

Channel	Modulation	LTE Band 13 (700 MHz)			
		RB	RB	Maximum Conducted Output Power	
		No.	Offset	5M	10M
Low	QPSK	1	#0	22.51	--
		1	#Mid	22.72	--
		1	#Max	22.52	--
		50%	#0	21.36	--
		50%	#Mid	21.57	--
		50%	#Max	21.51	--
		100%	--	21.40	--
	16QAM	1	#0	21.21	--
		1	#Mid	21.48	--
		1	#Max	21.24	--
		50%	#0	20.56	--
		50%	#Mid	20.52	--
		50%	#Max	20.40	--
		100%	--	20.44	--
	64QAM	1	#0	20.16	--
		1	#Mid	20.85	--
		1	#Max	20.33	--
		50%	#0	19.63	--
		50%	#Mid	19.74	--
		50%	#Max	19.57	--
		100%	--	19.66	--
Mid	QPSK	1	#0	22.53	22.58
		1	#Mid	22.82	22.86
		1	#Max	22.52	22.85
		50%	#0	21.45	21.81
		50%	#Mid	21.43	21.85
		50%	#Max	21.45	21.81
		100%	--	21.43	21.88
	16QAM	1	#0	21.37	21.50
		1	#Mid	21.38	21.62
		1	#Max	21.32	21.51
		50%	#0	20.38	20.61
		50%	#Mid	20.42	20.52
		50%	#Max	20.42	20.55
		100%	--	20.34	20.66
	64QAM	1	#0	20.37	20.63
		1	#Mid	20.82	21.21
		1	#Max	20.28	21.14
		50%	#0	19.58	19.98
		50%	#Mid	19.88	20.00
		50%	#Max	19.60	20.00
		100%	--	19.33	19.84

High	QPSK	1	#0	22.56	--
		1	#Mid	22.64	--
		1	#Max	22.51	--
		50%	#0	21.58	--
		50%	#Mid	21.59	--
		50%	#Max	21.52	--
		100%	--	21.46	--
	16QAM	1	#0	21.30	--
		1	#Mid	21.58	--
		1	#Max	21.54	--
		50%	#0	20.59	--
		50%	#Mid	20.59	--
		50%	#Max	20.42	--
		100%	--	20.52	--
	64QAM	1	#0	20.50	--
		1	#Mid	20.96	--
		1	#Max	20.58	--
		50%	#0	19.79	--
		50%	#Mid	19.88	--
		50%	#Max	19.72	--
		100%	--	19.38	--

Channel	Modulation	LTE Band 38/41 (2600 MHz)					
		RB	RB	Maximum Conducted Output Power			
		No.	Offset	5M	10M	15M	20M
Low	QPSK	1	#0	23.54	23.59	23.59	23.61
		1	#Mid	23.62	23.65	23.68	23.72
		1	#Max	23.35	23.49	23.37	23.59
		50%	#0	22.86	22.85	22.81	22.88
		50%	#Mid	22.81	22.72	22.85	22.86
		50%	#Max	22.73	22.77	22.79	22.95
		100%	--	22.83	22.79	22.78	22.86
	16QAM	1	#0	22.50	22.55	22.43	22.47
		1	#Mid	22.55	22.73	22.51	22.75
		1	#Max	22.53	22.42	22.48	22.41
		50%	#0	21.76	22.08	21.68	21.68
		50%	#Mid	21.78	22.06	21.85	21.84
		50%	#Max	21.97	22.03	21.73	21.82
		100%	--	21.99	21.81	21.75	21.80
	64QAM	1	#0	21.34	21.43	21.44	21.49
		1	#Mid	21.55	21.56	21.46	22.48
		1	#Max	21.33	21.42	21.41	21.47
		50%	#0	20.73	20.98	20.87	20.86
		50%	#Mid	20.74	21.05	20.84	20.94
		50%	#Max	20.81	21.04	20.83	20.85
		100%	--	20.88	20.75	20.71	20.83
Mid	QPSK	1	#0	23.10	23.54	23.60	23.68
		1	#Mid	23.62	23.66	23.70	23.73
		1	#Max	23.53	23.63	23.66	23.57
		50%	#0	22.65	22.64	22.63	22.78
		50%	#Mid	22.60	22.60	22.66	22.76
		50%	#Max	22.47	22.84	22.73	23.05
		100%	--	22.71	22.82	22.94	23.09
	16QAM	1	#0	22.36	22.45	22.56	22.32
		1	#Mid	22.61	22.71	22.65	22.65
		1	#Max	22.59	22.47	22.36	22.23
		50%	#0	21.67	21.62	21.63	21.59
		50%	#Mid	21.69	21.98	21.79	21.53
		50%	#Max	21.84	21.79	21.84	21.79
		100%	--	21.80	21.62	21.95	22.04
	64QAM	1	#0	21.38	21.29	21.76	21.26
		1	#Mid	22.02	21.38	21.88	21.40
		1	#Max	21.29	21.37	21.30	21.23
		50%	#0	20.75	20.71	20.64	20.65
		50%	#Mid	20.83	20.73	20.85	20.62
		50%	#Max	20.82	20.90	20.79	20.79
		100%	--	20.97	20.67	20.60	20.55

High	QPSK	1	#0	22.01	22.02	22.07	22.11
		1	#Mid	22.03	22.09	23.17	23.56
		1	#Max	21.23	22.01	22.01	22.04
		50%	#0	20.34	20.69	21.21	21.60
		50%	#Mid	20.23	20.42	20.70	21.09
		50%	#Max	19.87	19.94	20.13	20.36
		100%	--	20.11	20.38	20.66	20.97
	16QAM	1	#0	20.60	21.06	21.07	21.31
		1	#Mid	20.65	21.16	22.22	22.68
		1	#Max	19.83	19.79	19.89	19.95
		50%	#0	19.27	19.62	20.05	20.49
		50%	#Mid	19.18	19.36	19.57	20.01
		50%	#Max	18.79	18.89	19.03	19.30
		100%	--	19.06	19.32	19.57	19.87
	64QAM	1	#0	19.35	19.86	19.87	20.04
		1	#Mid	19.37	19.91	20.99	21.45
		1	#Max	18.60	18.55	18.68	18.73
		50%	#0	18.13	18.51	18.93	19.31
		50%	#Mid	18.05	18.26	18.45	18.83
		50%	#Max	17.68	17.79	17.90	18.13
		100%	--	17.94	18.17	18.41	18.70

3.6 Maximum Conducted Power and ERP/EIRP Power

According to KDB 412172 D01 Section 1.2 Power Approach

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

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	21.26	0.134	1.4	0.185	2
		16QAM	20.41	0.110	1.4	0.152	2
		64QAM	19.39	0.087	1.4	0.120	2
	3 M	QPSK	21.45	0.140	1.4	0.193	2
		16QAM	20.09	0.102	1.4	0.141	2
		64QAM	19.41	0.087	1.4	0.121	2
	5 M	QPSK	21.33	0.136	1.4	0.187	2
		16QAM	20.01	0.100	1.4	0.138	2
		64QAM	19.48	0.089	1.4	0.122	2
	10 M	QPSK	21.23	0.133	1.4	0.183	2
		16QAM	20.34	0.108	1.4	0.149	2
		64QAM	19.28	0.085	1.4	0.117	2
	15 M	QPSK	21.17	0.131	1.4	0.181	2
		16QAM	20.27	0.106	1.4	0.147	2
		64QAM	19.49	0.089	1.4	0.123	2
	20 M	QPSK	21.49	0.141	1.4	0.195	2
		16QAM	20.50	0.112	1.4	0.155	2
		64QAM	19.50	0.089	1.4	0.123	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	23.22	0.210	2.8	0.400	1
		16QAM	22.26	0.168	2.8	0.321	1
		64QAM	21.41	0.138	2.8	0.264	1
	3 M	QPSK	23.20	0.209	2.8	0.398	1
		16QAM	22.15	0.164	2.8	0.313	1
		64QAM	21.38	0.137	2.8	0.262	1
	5 M	QPSK	23.05	0.202	2.8	0.385	1
		16QAM	22.01	0.159	2.8	0.303	1
		64QAM	21.17	0.131	2.8	0.249	1
	10 M	QPSK	23.15	0.207	2.8	0.394	1
		16QAM	22.22	0.167	2.8	0.318	1
		64QAM	21.19	0.132	2.8	0.251	1
	15 M	QPSK	23.09	0.204	2.8	0.388	1
		16QAM	22.06	0.161	2.8	0.306	1
		64QAM	21.41	0.138	2.8	0.264	1
	20 M	QPSK	23.31	0.214	2.8	0.408	1
		16QAM	22.26	0.168	2.8	0.321	1
		64QAM	21.47	0.140	2.8	0.267	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	22.75	0.188	2.6	0.209	7
		16QAM	22.13	0.163	2.6	0.181	7
		64QAM	21.07	0.128	2.6	0.142	7
	3 M	QPSK	23.05	0.202	2.6	0.224	7
		16QAM	22.44	0.175	2.6	0.195	7
		64QAM	21.45	0.140	2.6	0.155	7
	5 M	QPSK	23.13	0.206	2.6	0.228	7
		16QAM	22.48	0.177	2.6	0.196	7
		64QAM	21.38	0.137	2.6	0.152	7
	10 M	QPSK	22.95	0.197	2.6	0.219	7
		16QAM	22.18	0.165	2.6	0.183	7
		64QAM	21.23	0.133	2.6	0.147	7
	15 M	QPSK	23.16	0.207	2.6	0.230	7
		16QAM	22.39	0.173	2.6	0.192	7
		64QAM	21.34	0.136	2.6	0.151	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	19.67	0.093	2.5	0.165	2
		16QAM	18.51	0.071	2.5	0.126	2
		64QAM	18.07	0.064	2.5	0.114	2
	10 M	QPSK	19.61	0.091	2.5	0.163	2
		16QAM	18.48	0.070	2.5	0.125	2
		64QAM	17.98	0.063	2.5	0.112	2
	15 M	QPSK	19.69	0.093	2.5	0.166	2
		16QAM	18.54	0.071	2.5	0.127	2
		64QAM	18.04	0.064	2.5	0.113	2
	20 M	QPSK	19.74	0.094	2.5	0.167	2
		16QAM	18.63	0.073	2.5	0.130	2
		64QAM	18.18	0.066	2.5	0.117	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	22.71	0.187	3	0.227	3
		16QAM	21.75	0.150	3	0.182	3
		64QAM	20.89	0.123	3	0.149	3
	3 M	QPSK	23.01	0.200	3	0.243	3
		16QAM	21.76	0.150	3	0.182	3
		64QAM	21.18	0.131	3	0.160	3
	5 M	QPSK	23.01	0.200	3	0.243	3
		16QAM	21.76	0.150	3	0.182	3
		64QAM	21.18	0.131	3	0.160	3
	10 M	QPSK	23.18	0.208	3	0.253	3
		16QAM	22.21	0.166	3	0.202	3
		64QAM	21.53	0.142	3	0.173	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	22.82	0.191	1.7	0.173	3
		16QAM	21.58	0.144	1.7	0.130	3
		64QAM	20.96	0.125	1.7	0.112	3
	10 M	QPSK	22.86	0.193	1.7	0.174	3
		16QAM	21.62	0.145	1.7	0.131	3
		64QAM	21.21	0.132	1.7	0.119	3

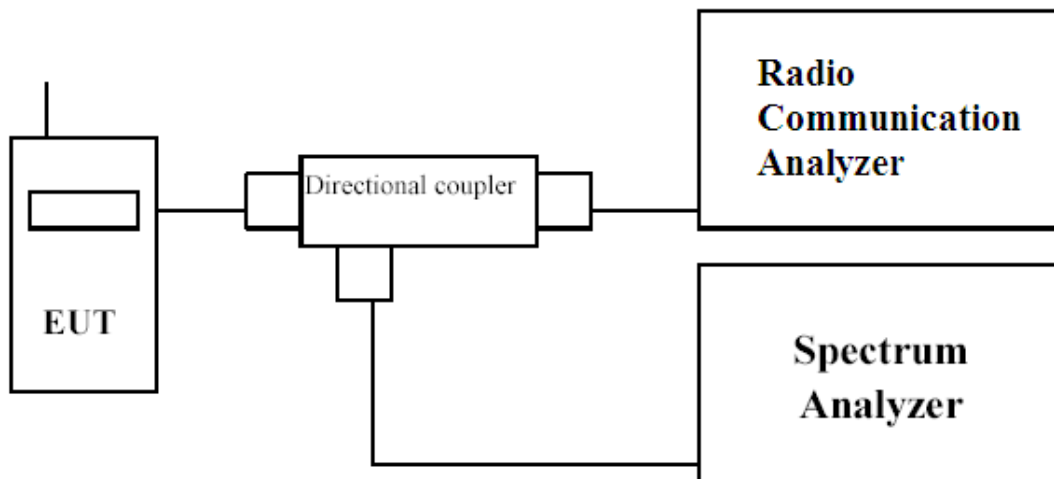
LTE Band	BW	Modulation	Conducted Peak Power (dBm)	Conducted Peak Power (W)	Antenna Gain (dBi)	Maximum EIRP (W)	Maximum EIRP Limit (W)
38/41	5 M	QPSK	23.62	0.230	2.5	0.409	2
		16QAM	22.61	0.182	2.5	0.324	2
		64QAM	22.02	0.159	2.5	0.283	2
	10 M	QPSK	23.66	0.232	2.5	0.413	2
		16QAM	22.73	0.187	2.5	0.333	2
		64QAM	21.56	0.143	2.5	0.255	2
	15 M	QPSK	23.70	0.234	2.5	0.417	2
		16QAM	22.65	0.184	2.5	0.327	2
		64QAM	21.88	0.154	2.5	0.274	2
	20 M	QPSK	23.73	0.236	2.5	0.420	2
		16QAM	22.75	0.188	2.5	0.335	2
		64QAM	22.48	0.177	2.5	0.315	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	1.0935	1.0908	1.1001	1.275	1.296	1.292
1.4 M	26365	1882.5	1.0916	1.0912	1.0989	1.280	1.288	1.291
1.4 M	26683	1914.3	1.0971	1.1026	1.0968	1.358	1.440	1.300
3 M	26055	1851.5	2.7348	2.7208	2.7252	3.049	3.059	3.054
3 M	26365	1882.5	2.7342	2.7183	2.7230	3.061	3.062	3.040
3 M	26675	1913.5	2.7195	2.7308	2.6964	3.808	3.827	3.009
5 M	26065	2852.5	4.5069	4.5064	4.4998	4.998	5.012	5.014
5 M	26365	1882.5	4.5008	4.5179	4.5029	5.001	5.013	4.994
5 M	26665	1912.5	4.4614	4.4863	4.4783	4.910	4.984	4.955
10 M	26090	1855	9.0417	9.0572	9.0349	9.981	10.06	10.06
10 M	26365	1882.5	9.0401	9.0701	9.0373	9.987	10.05	9.975
10 M	26640	1910	9.0149	9.0397	9.0282	9.938	9.994	10.01
15 M	26115	1857.5	13.438	13.420	13.408	14.59	14.60	14.75
15 M	26365	1882.5	13.449	13.428	13.402	14.62	14.57	14.70
15 M	26615	1905	13.400	13.408	13.397	14.52	14.52	14.62
20M	26140	1860	18.481	18.413	18.387	20.38	20.43	20.37
20 M	26365	1882.5	18.506	18.416	18.398	20.37	20.41	20.43
20 M	26590	1905	18.406	18.352	18.311	20.31	20.34	20.36

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	1.0923	1.0910	1.0986	1.281	1.299	1.285
1.4 M	132322	1745	1.0918	1.0896	1.0977	1.288	1.294	1.281
1.4 M	132665	1779.3	1.0916	1.0902	1.0979	1.275	1.296	1.288
3 M	131987	1711.5	2.7357	2.7191	2.7252	3.060	3.051	3.046
3 M	132322	1745	2.7355	2.7173	2.7201	3.066	3.038	3.044
3 M	132657	1778.5	2.7318	2.7199	2.7208	3.050	3.042	3.043
5 M	131997	1712.5	4.5028	4.5162	4.5016	4.998	4.999	4.994
5 M	132322	1745	4.4979	4.5182	4.5044	5.009	5.030	5.030
5 M	132647	1777.5	4.5007	4.5126	4.5034	5.007	5.008	5.017
10 M	132022	1715	9.0335	9.0562	9.0265	9.996	10.03	10.01
10 M	132322	1745	9.0299	9.0403	9.0289	10.01	9.978	10.03
10 M	132622	1775	9.0292	9.0237	9.0274	9.962	10.05	10.00
15 M	132047	1717.5	13.447	13.416	13.405	14.57	14.57	14.77
15 M	132322	1745	13.422	13.404	13.398	14.61	14.62	14.66
15 M	132597	1772.5	13.417	13.407	13.404	14.56	14.60	14.74
20 M	132072	1720	18.500	18.438	18.417	20.37	20.42	20.48
20 M	132322	1745	18.470	18.414	18.373	20.40	20.31	20.39
20 M	132572	1770	18.461	18.413	18.385	20.42	20.44	20.37

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	1.0919	1.0908	1.0969	1.276	1.287	1.285
1.4 M	26915	836.5	1.0911	1.0905	1.0979	1.282	1.299	1.286
1.4 M	27033	848.3	1.0915	1.0910	1.0977	1.286	1.300	1.287
3 M	26805	825.5	2.7306	2.7202	2.7239	3.065	3.051	3.052
3 M	26915	836.5	2.7322	2.7193	2.7211	3.058	3.046	3.044
3 M	27025	847.5	2.7295	2.7193	2.7219	3.038	3.043	3.052
5 M	26815	826.5	4.4989	4.5135	4.4994	4.997	5.007	5.002
5 M	26915	836.5	4.4960	4.5078	4.4951	4.991	5.027	4.990
5 M	27015	846.5	4.4926	4.5026	4.4914	4.962	5.020	4.972
10 M	26840	829	9.0398	9.0554	9.0352	10.00	10.03	9.998
10 M	26915	836.5	9.0201	9.0432	9.0122	9.995	9.976	9.940
10 M	26990	844	9.0235	9.0450	9.0134	9.972	10.01	9.994
15 M	26865	831.5	13.419	13.402	13.381	14.47	14.55	14.59
15 M	26915	836.5	13.409	13.404	13.385	14.62	14.60	14.69
15 M	26965	841.5	13.421	13.418	13.406	14.68	14.65	14.68

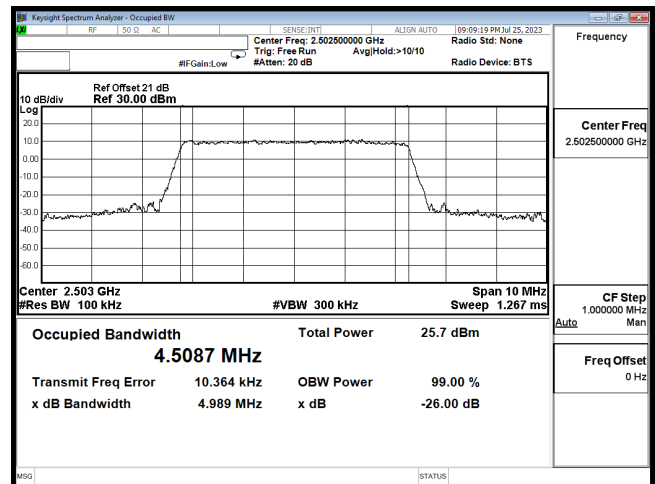
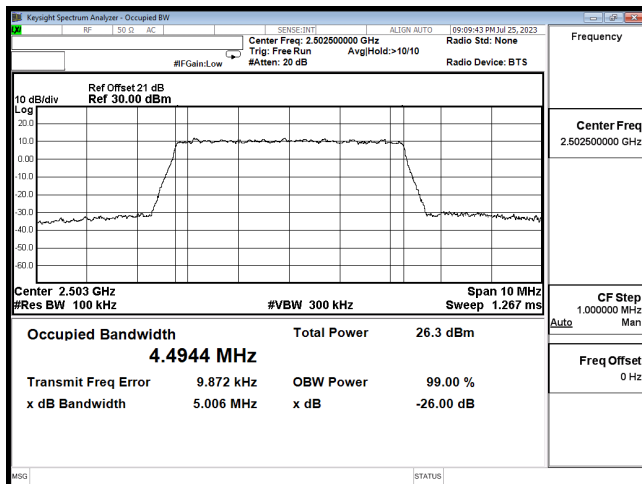
LTE Band 7								
BW	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			26 dB Bandwidth (MHz)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 M	20775	2502.5	4.4944	4.5087	4.4926	5.006	4.989	5.001
5 M	21100	2535	4.4984	4.5058	4.4992	4.995	5.001	5.017
5 M	21425	2567.5	4.4957	4.5092	4.4952	4.972	5.003	5.014
10 M	20800	2505	9.0279	9.0527	9.0196	9.997	10.03	9.996
10 M	21100	2535	9.0304	9.0454	9.0210	10.01	10.04	9.989
10 M	21400	2565	9.0303	9.0271	9.0298	9.977	9.954	10.00
15 M	20825	2507.5	13.429	13.408	13.414	14.65	14.60	14.74
15 M	21100	2535	13.422	13.400	13.398	14.58	14.53	14.74
15 M	21375	2562.5	13.443	13.422	13.432	14.69	14.57	14.78
20 M	20850	2510	18.504	18.418	18.394	20.34	20.45	20.44
20 M	21100	2535	18.432	18.362	18.332	20.40	20.34	20.50
20 M	21350	2560	18.525	18.453	18.447	20.44	20.43	20.47

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	1.0898	1.0917	1.0980	1.285	1.315	1.290
1.4 M	23095	707.5	1.0905	1.0903	1.1003	1.284	1.282	1.287
1.4 M	23173	715.3	1.0911	1.0914	1.0982	1.282	1.287	1.286
3 M	23025	700.5	2.7307	2.7180	2.7216	3.058	3.052	3.042
3 M	23095	707.5	2.7316	2.7178	2.7205	3.055	3.035	3.045
3 M	23165	714.5	2.7319	2.7229	2.7252	3.043	3.034	3.049
5 M	23035	701.5	4.4948	4.5063	4.4959	4.988	4.993	4.989
5 M	23095	707.5	4.4977	4.5131	4.4925	4.996	4.996	4.996
5 M	23155	713.5	4.4955	4.5117	4.4951	4.994	5.012	5.002
10 M	23060	704	9.0475	9.0578	9.0222	10.02	10.03	10.02
10 M	23095	707.5	9.0394	9.0332	9.0320	9.989	9.934	9.987
10 M	23130	711	8.9996	9.0356	8.9856	9.966	9.974	9.910

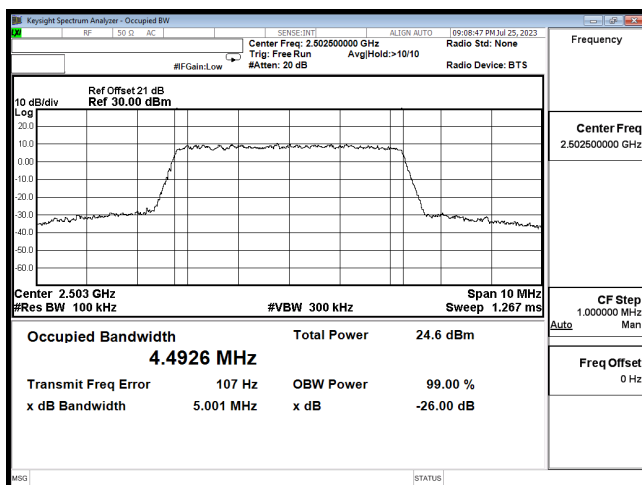
LTE Band 13								
BW	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			26 dB Bandwidth (MHz)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 M	23205	779.5	4.4831	4.4995	4.4764	4.987	4.980	4.949
5 M	23230	782	4.5015	4.5161	4.5009	4.994	5.010	4.983
5 M	23255	784.5	4.4903	4.5040	4.4929	4.988	4.982	4.963
10 M	23230	782	9.0077	9.0230	8.9858	9.940	9.976	9.952

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	4.5002	4.5239	4.5020	5.205	5.004	5.069
5M	40620	2593	4.5016	4.5300	4.5048	5.223	5.006	4.940
5M	41215	2652.5	4.4930	4.5196	4.5021	5.048	5.005	4.950
10M	40190	2550	9.0312	9.0574	9.0262	10.03	9.932	9.983
10M	10620	2593	9.0420	9.0405	9.0251	9.992	9.943	9.974
10M	41190	2650	9.0126	9.0035	9.0237	10.07	9.872	10.07
15M	40215	2552.5	13.461	13.452	13.426	15.36	14.57	14.69
15M	40620	2593	13.471	13.461	13.430	15.24	14.67	14.98
15M	41165	2647.5	13.440	13.409	13.396	15.45	14.83	14.62
20M	40240	2555	18.564	18.464	18.414	22.40	22.34	21.51
20M	40620	2593	18.599	18.524	18.433	21.52	22.66	21.21
20M	41140	2645	18.485	18.375	18.367	20.58	23.26	21.91

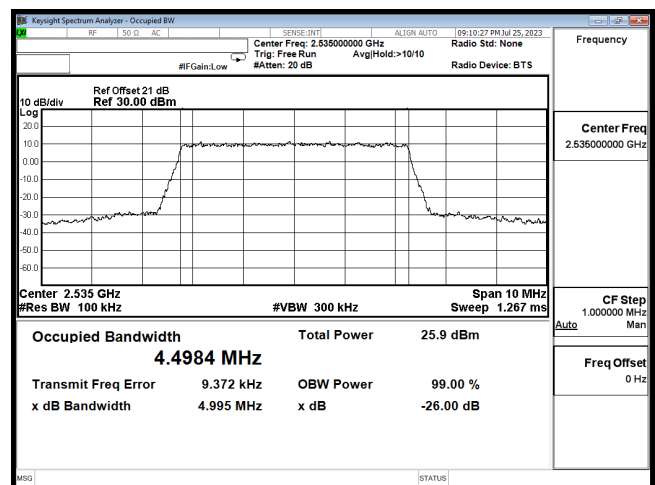
LTE Band 7



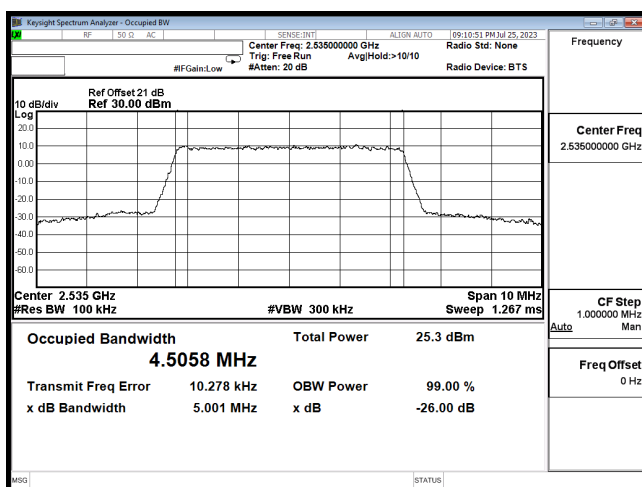
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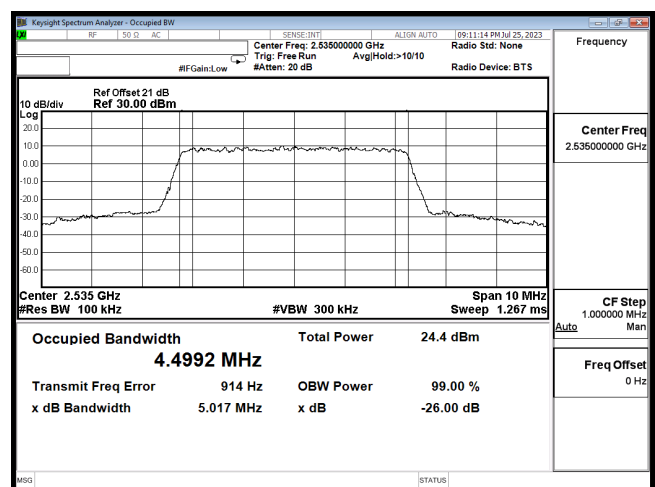
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OCC B7 5M CH20775 64QAM

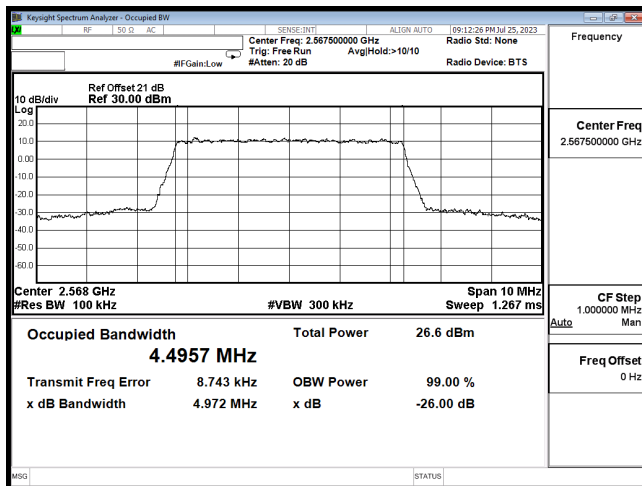


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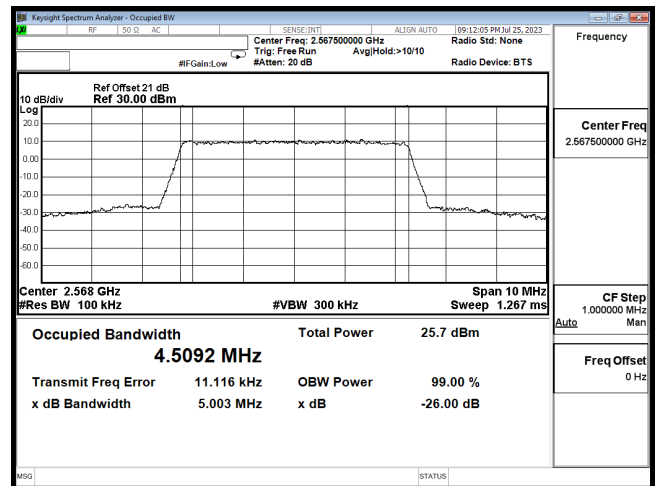


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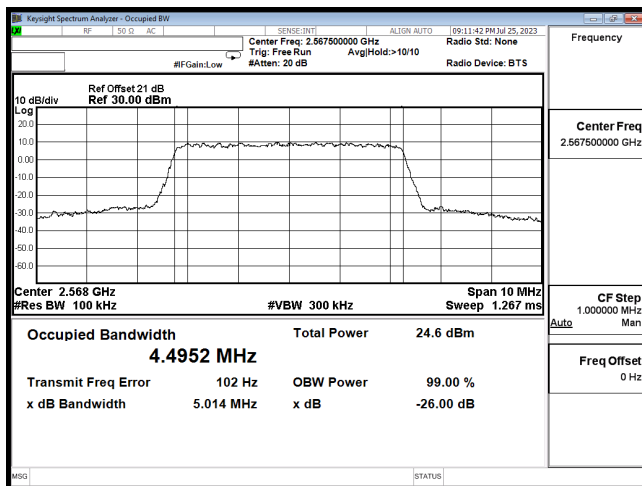
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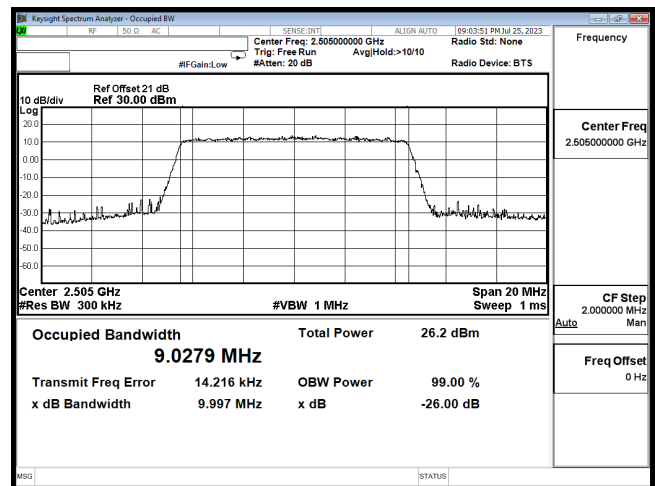
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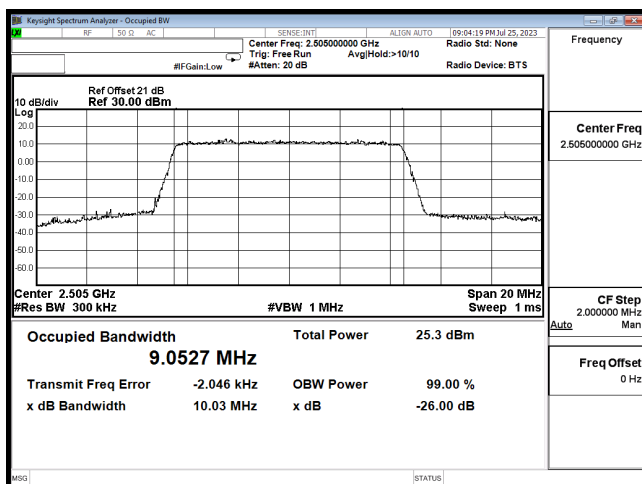
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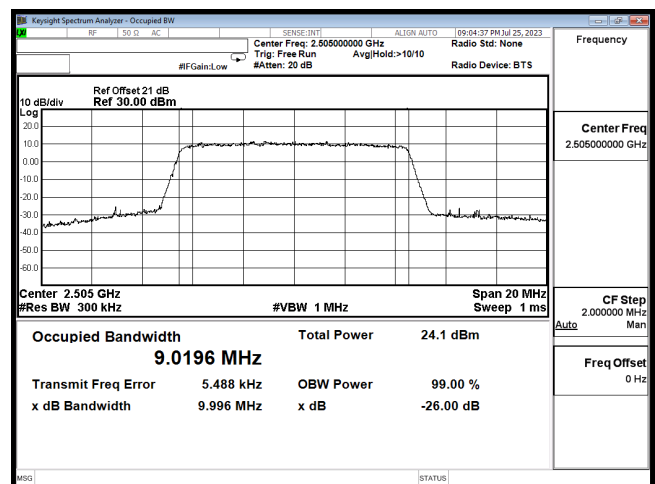
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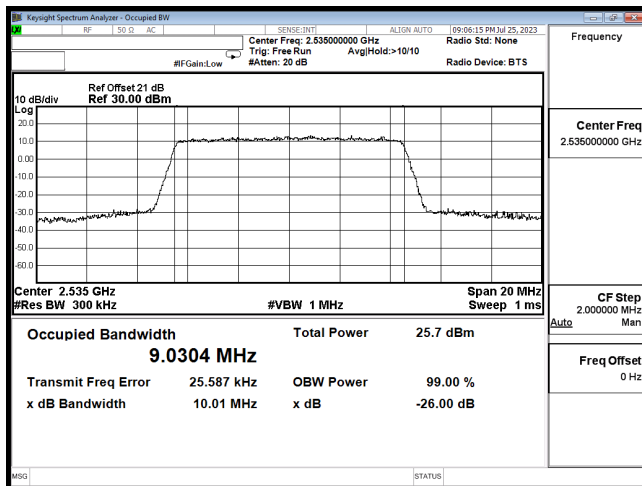
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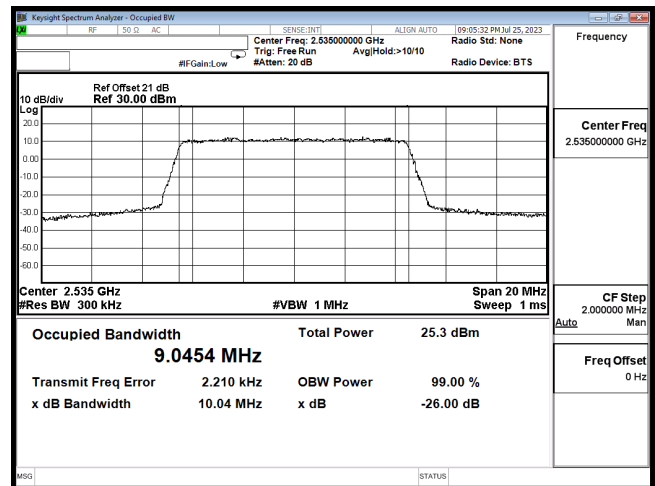
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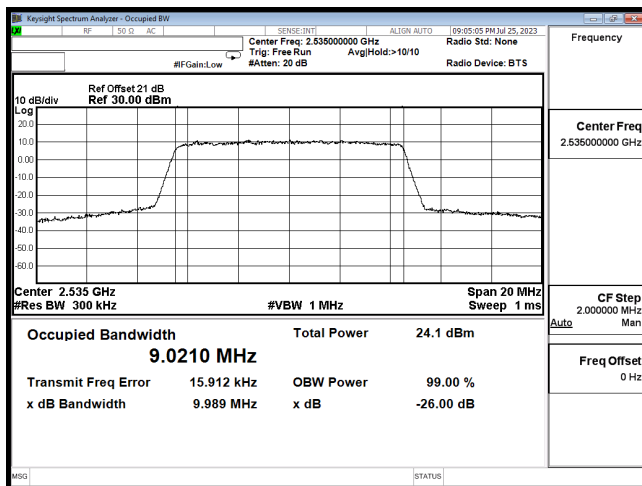
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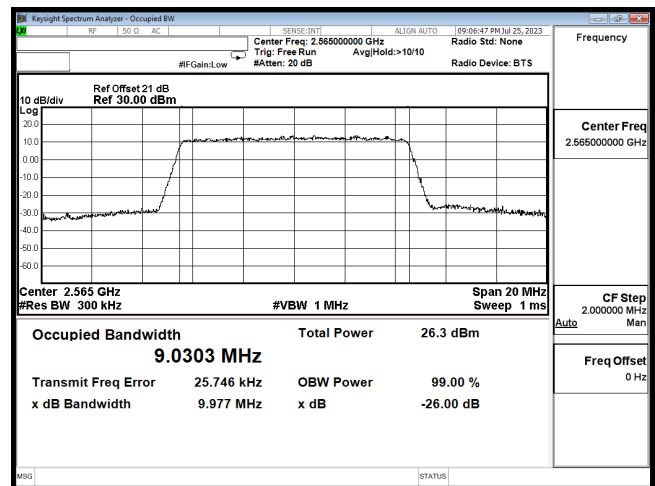
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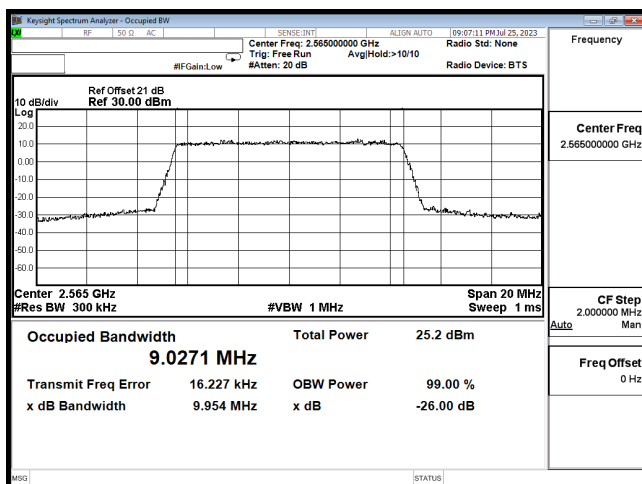
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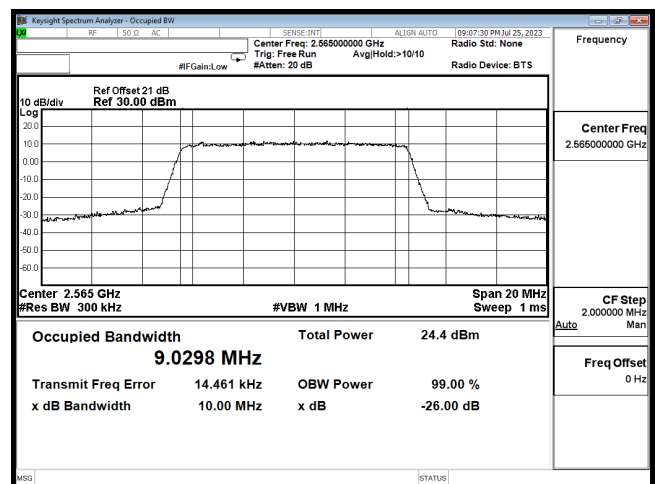
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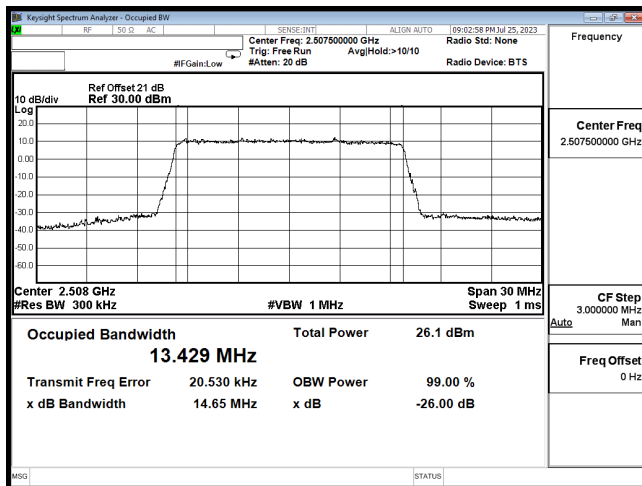
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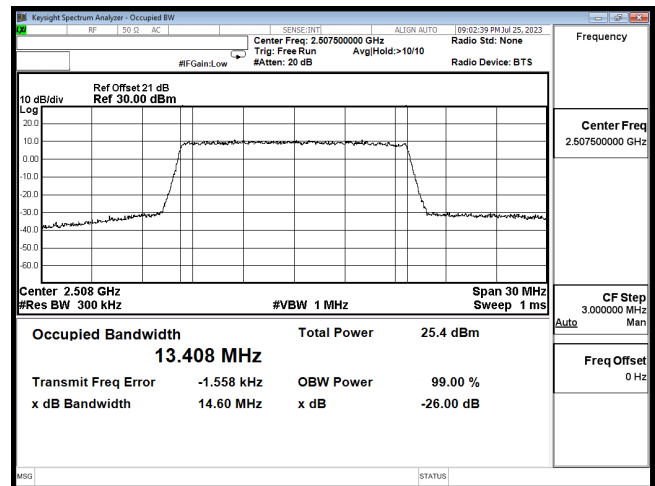
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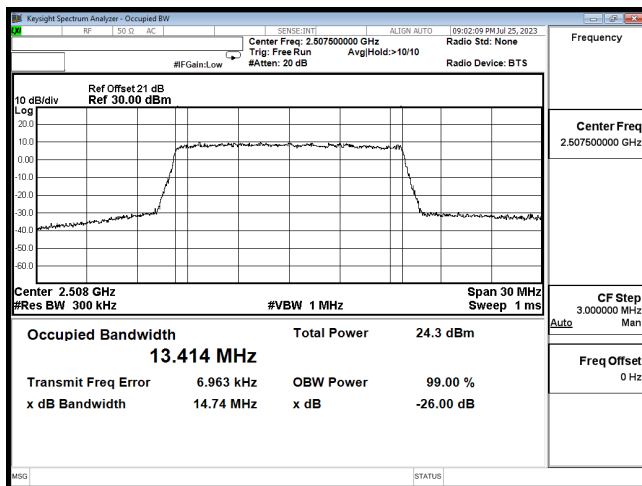
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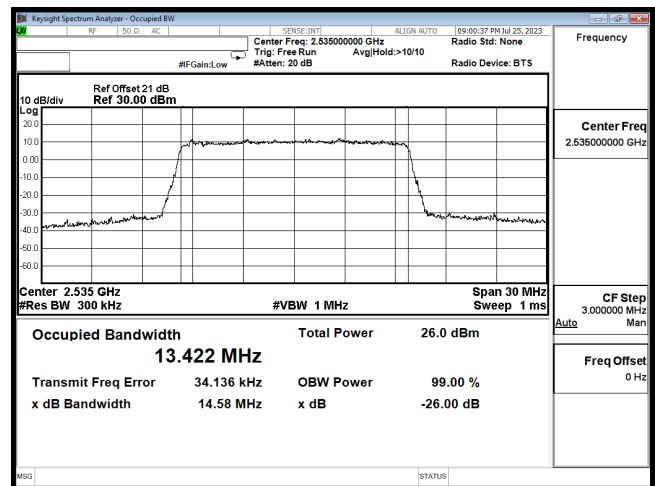
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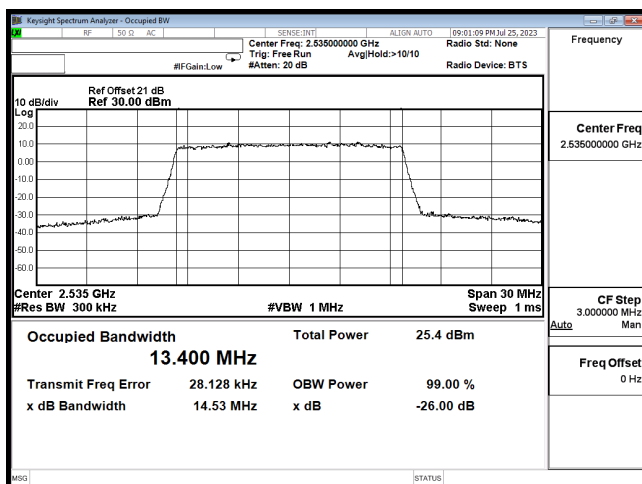
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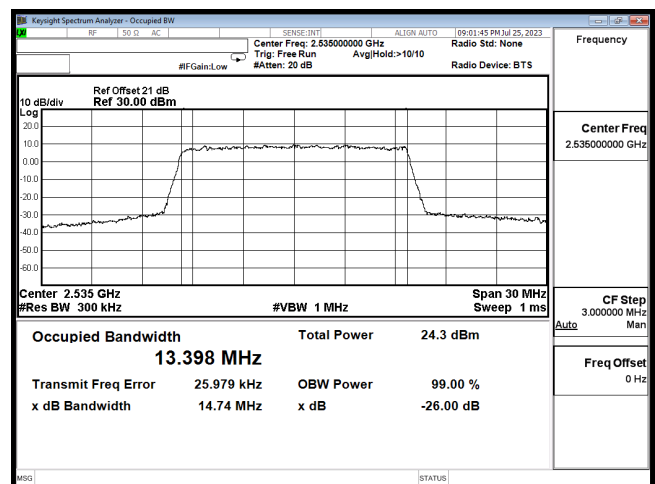
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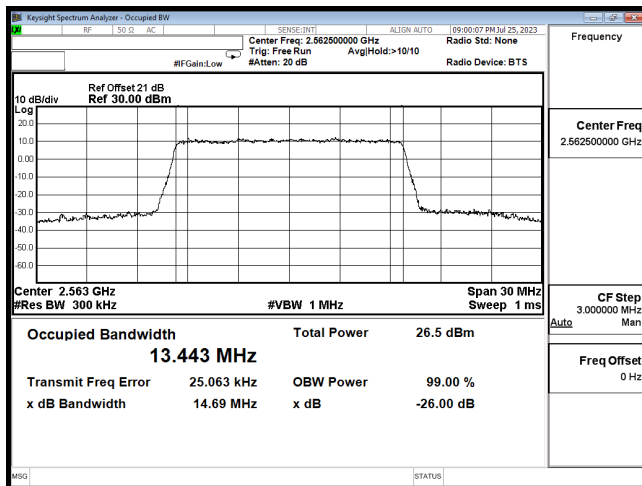
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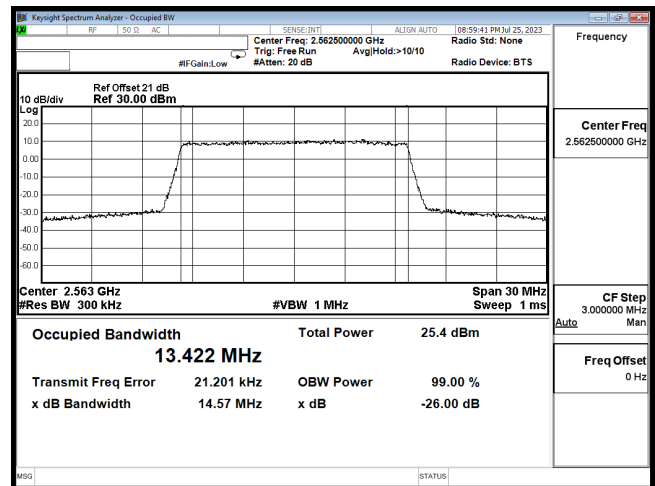
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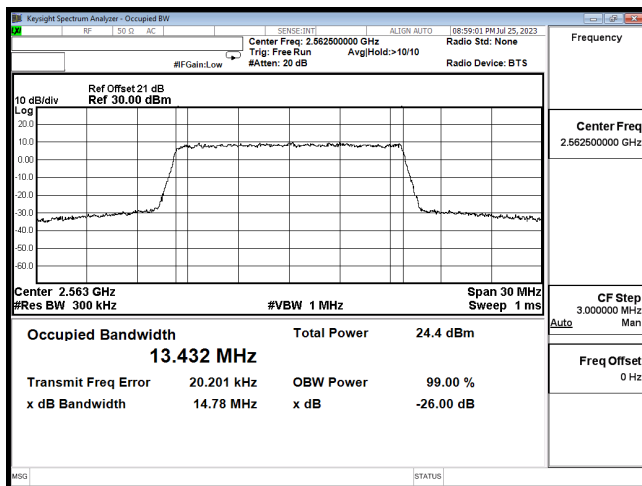
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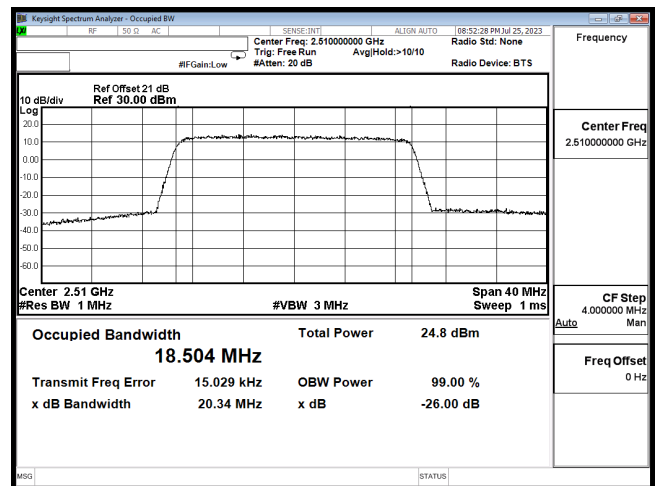
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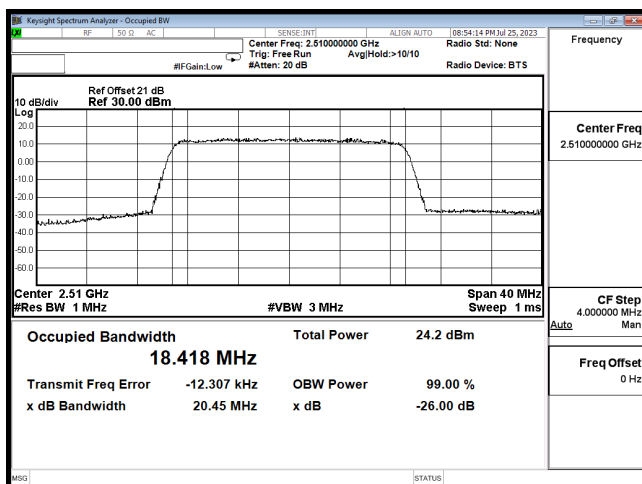
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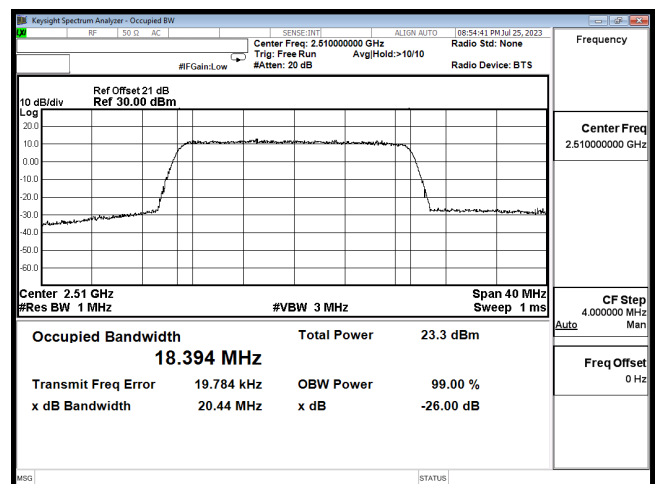
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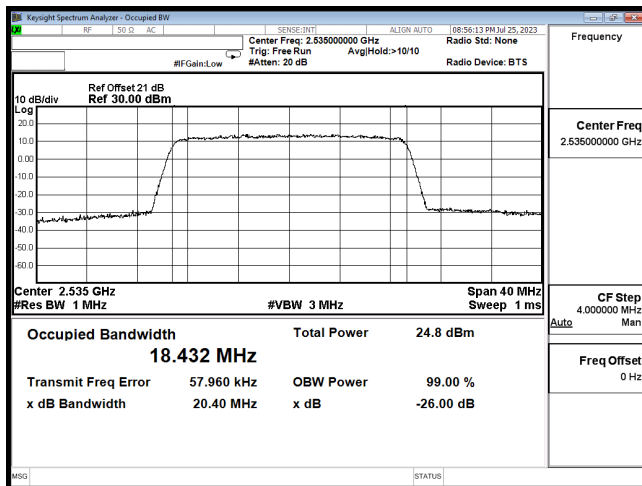
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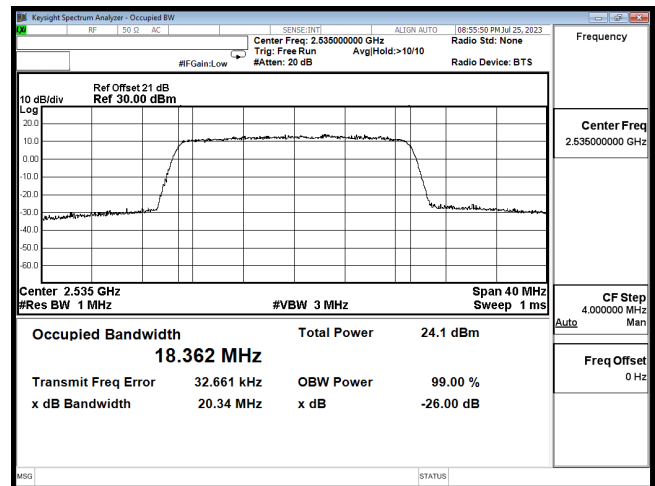
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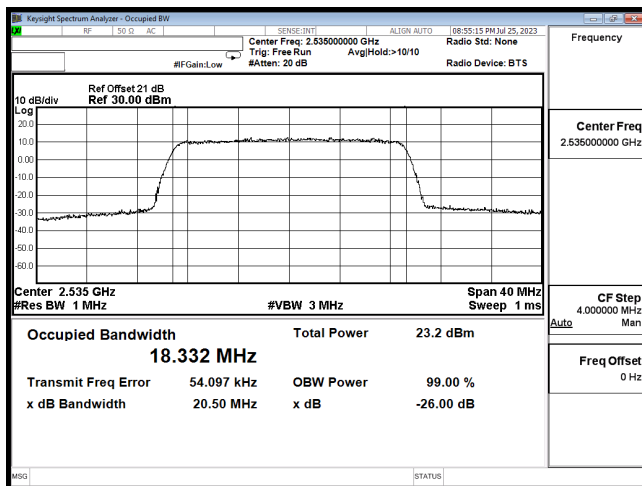
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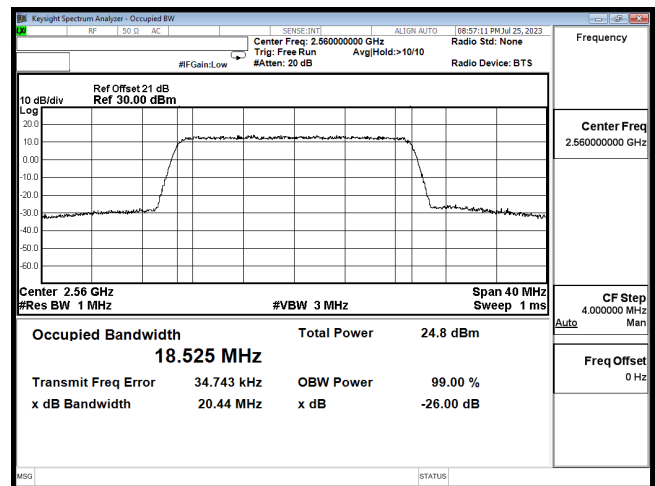
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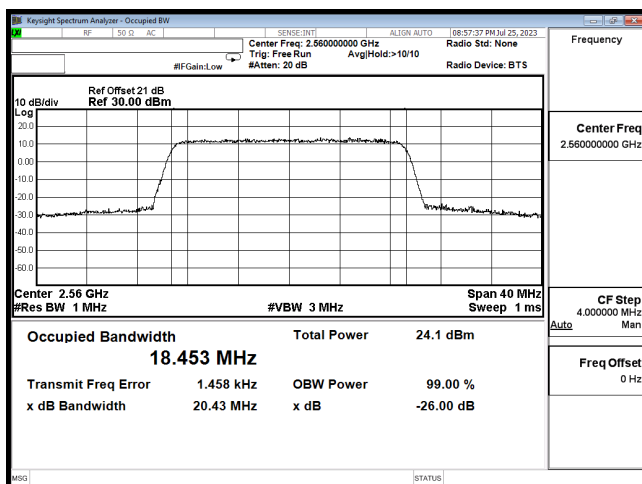
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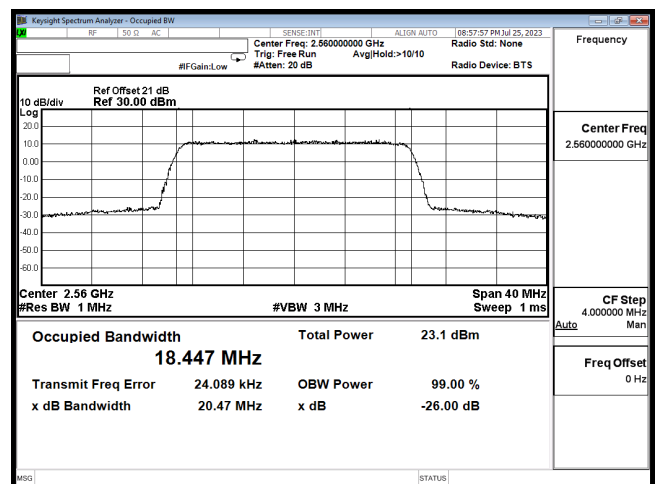
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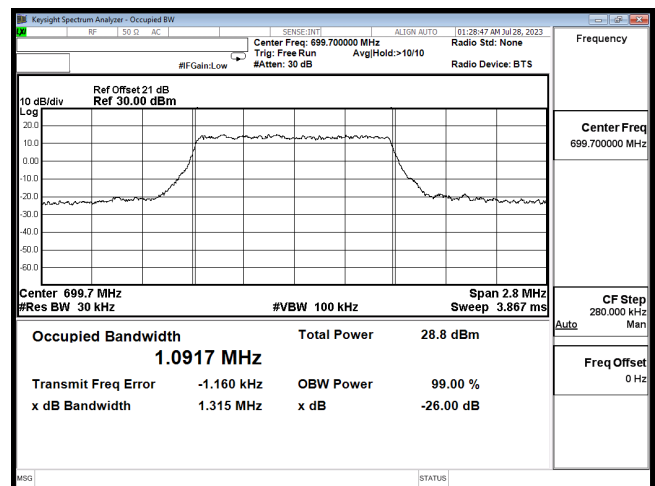
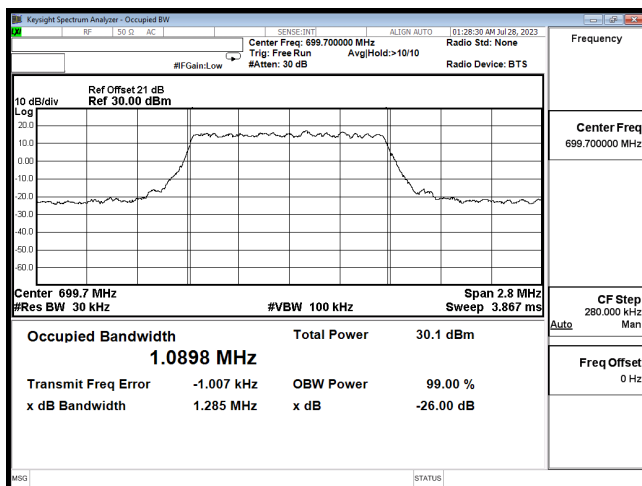


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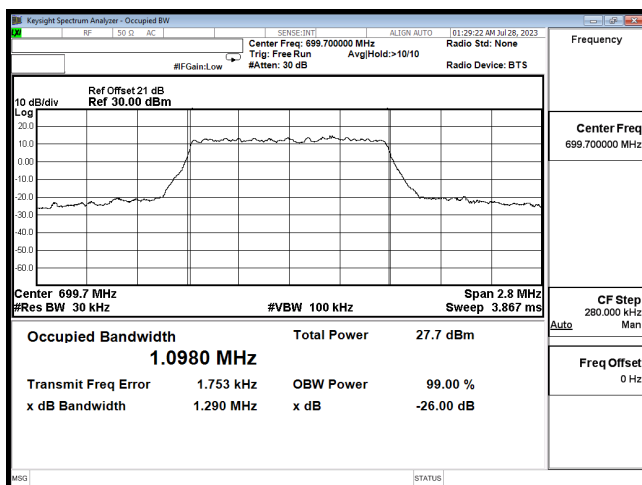


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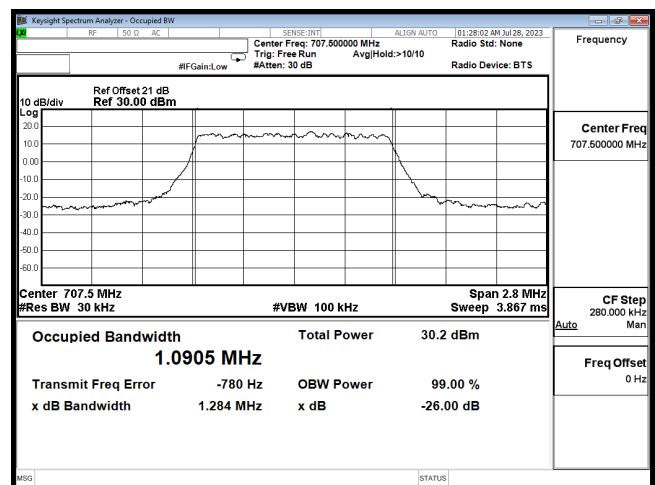
LTE Band 12



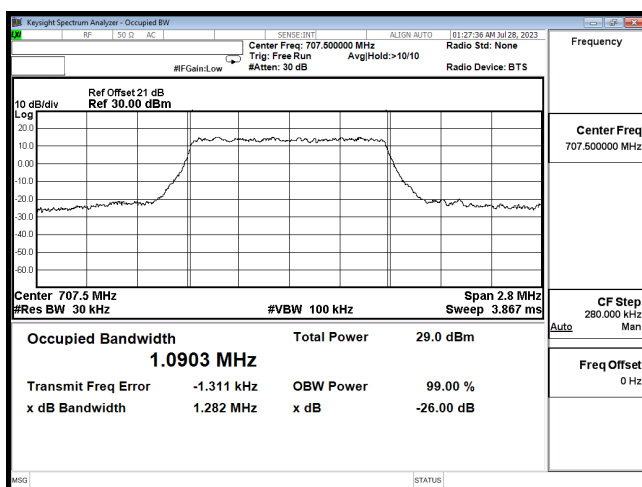
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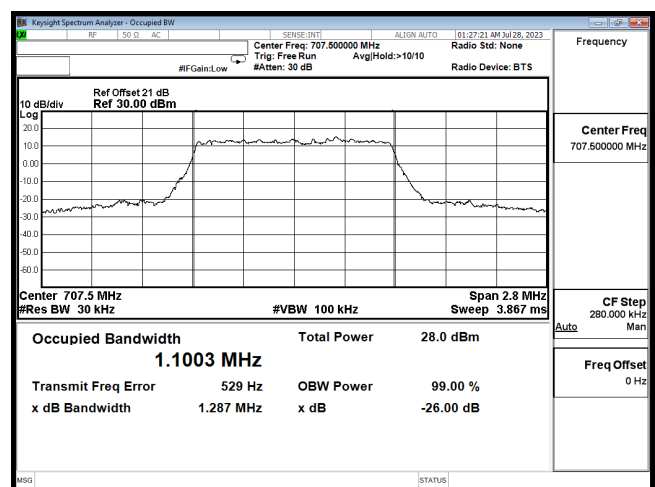
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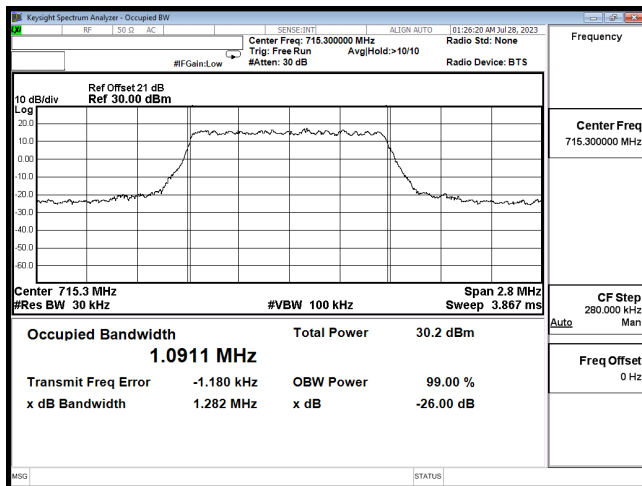


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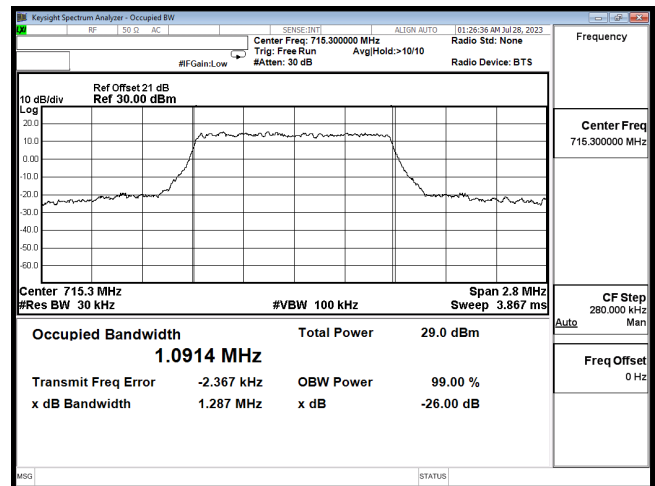


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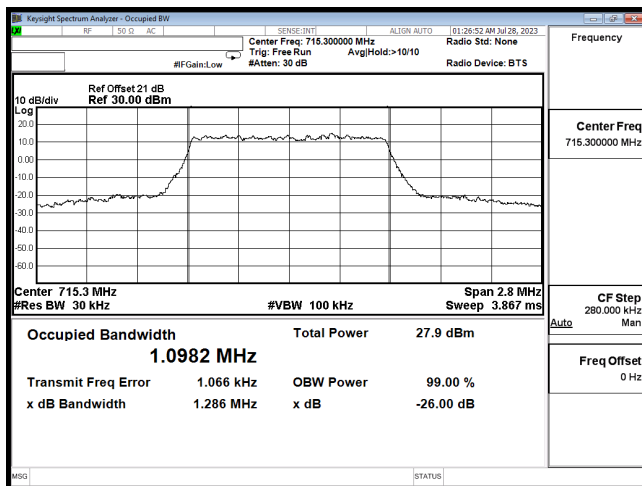
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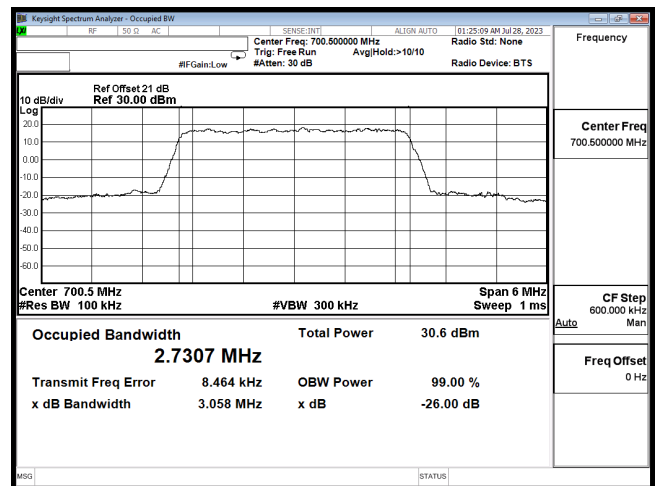
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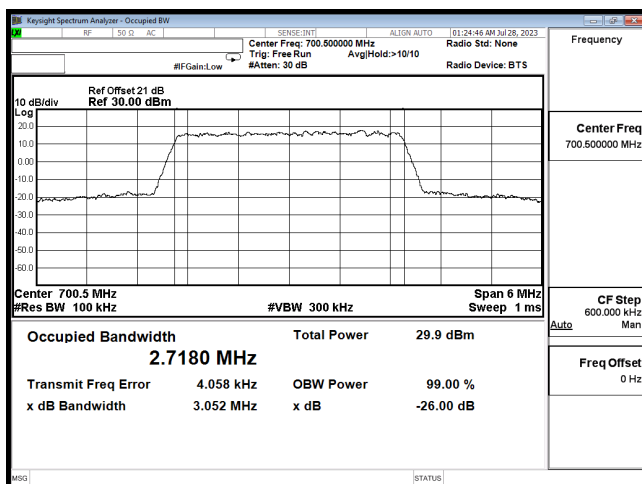
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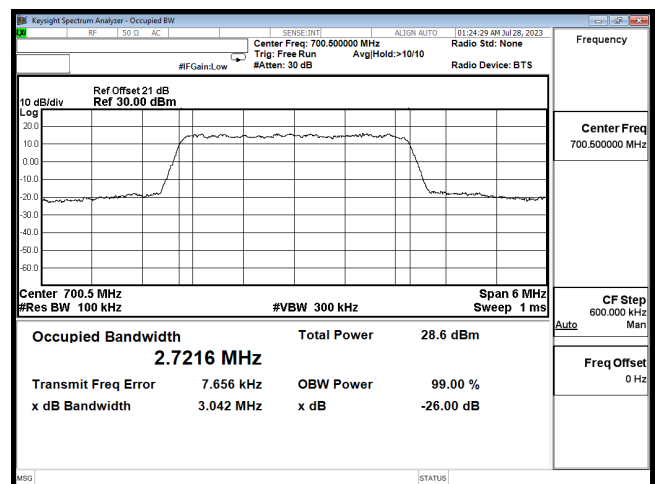
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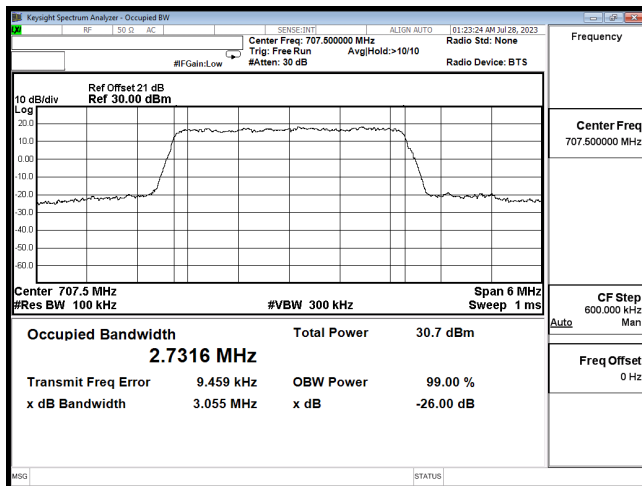
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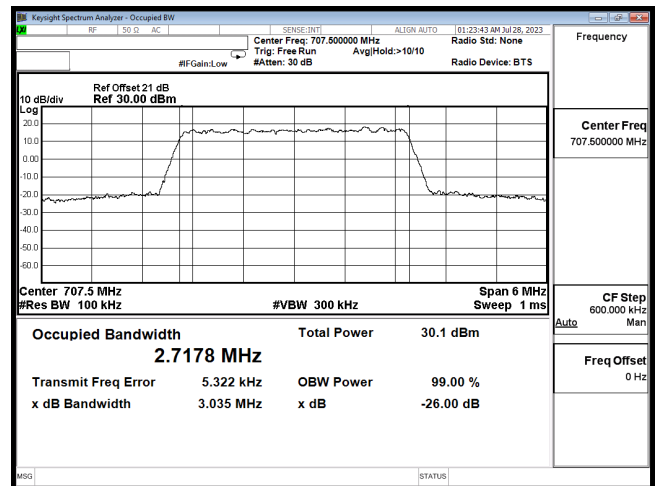
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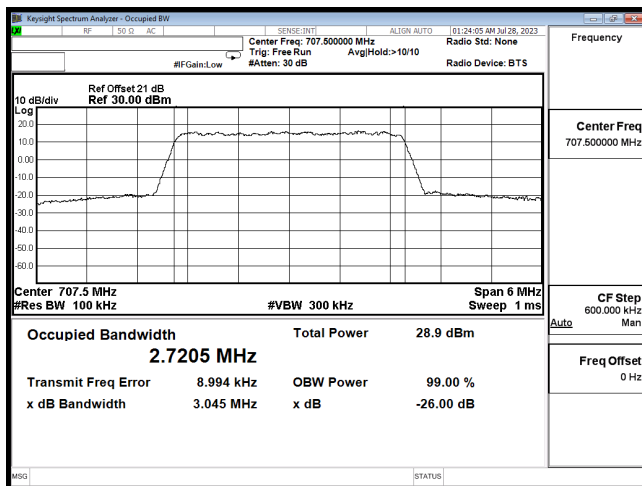
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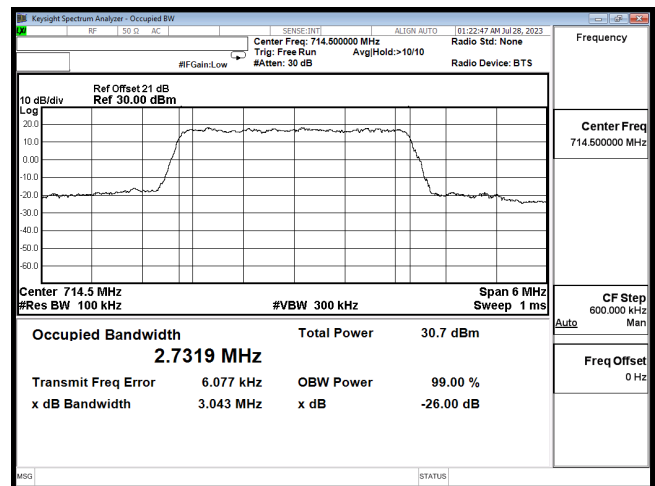
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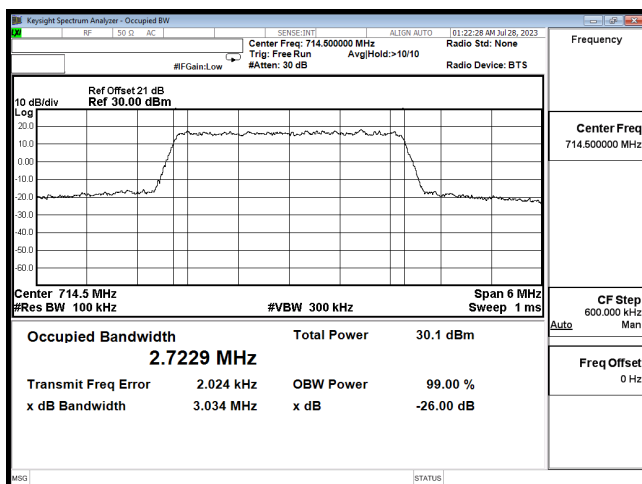
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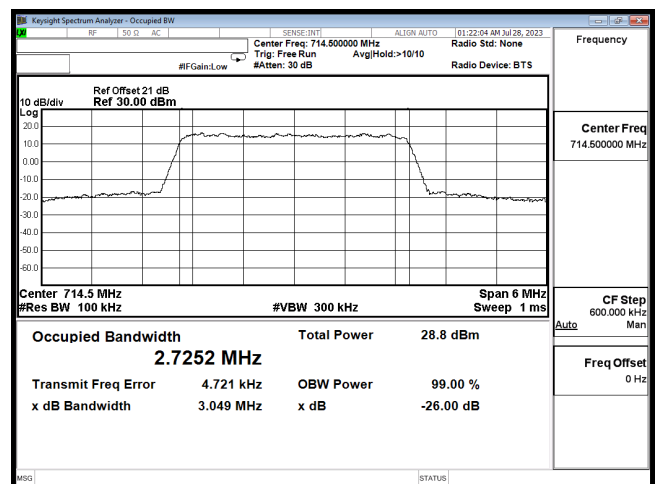
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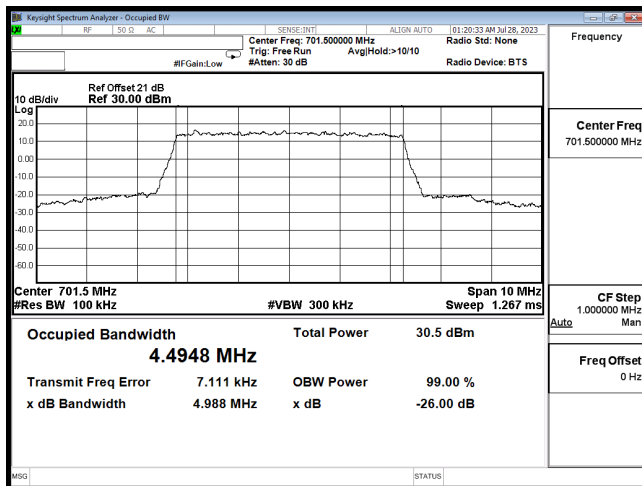
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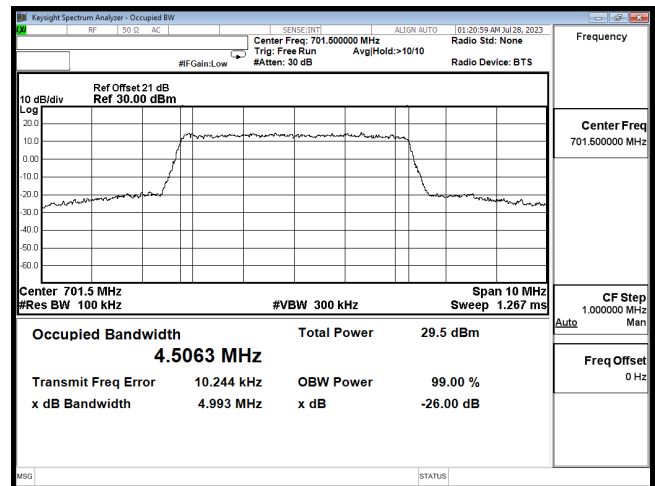
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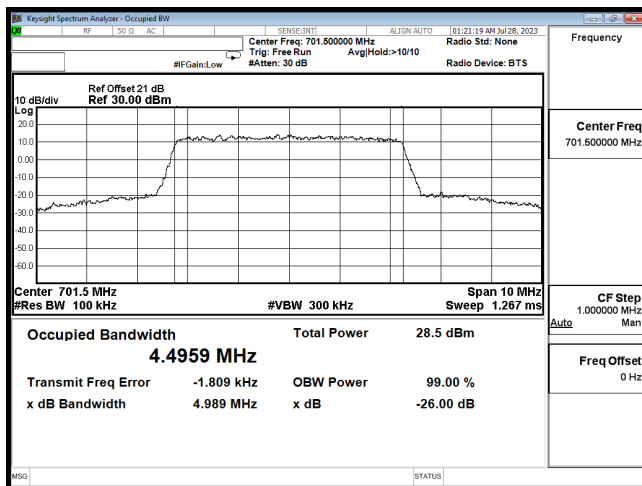
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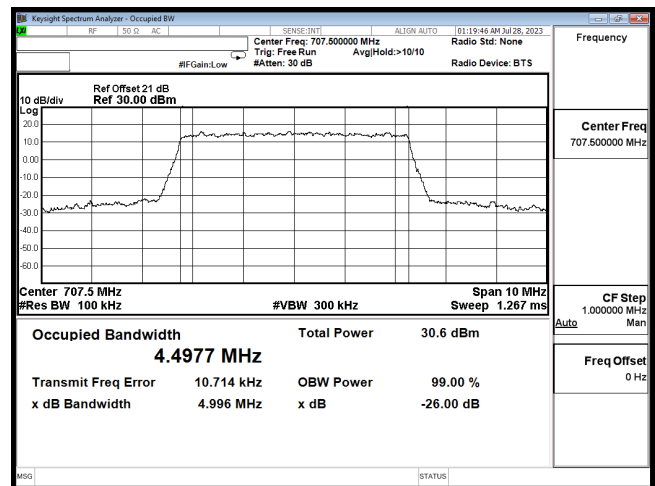
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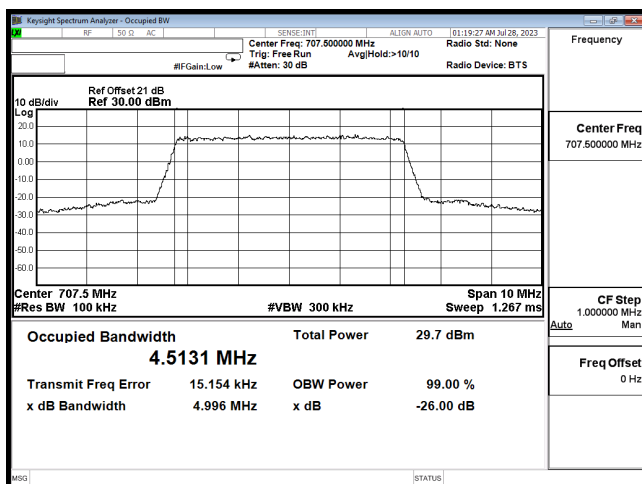
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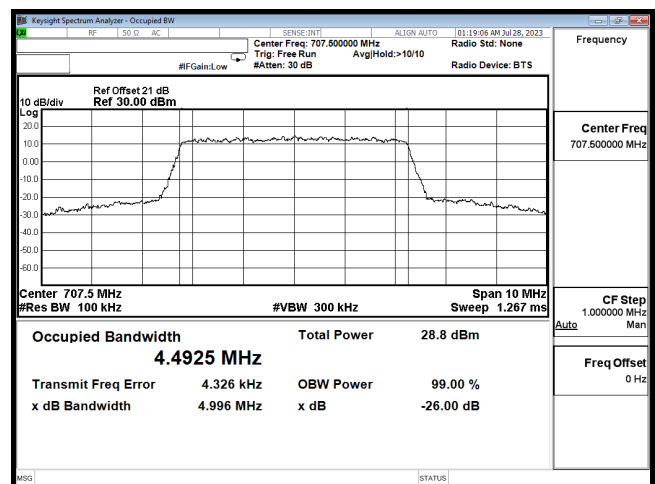
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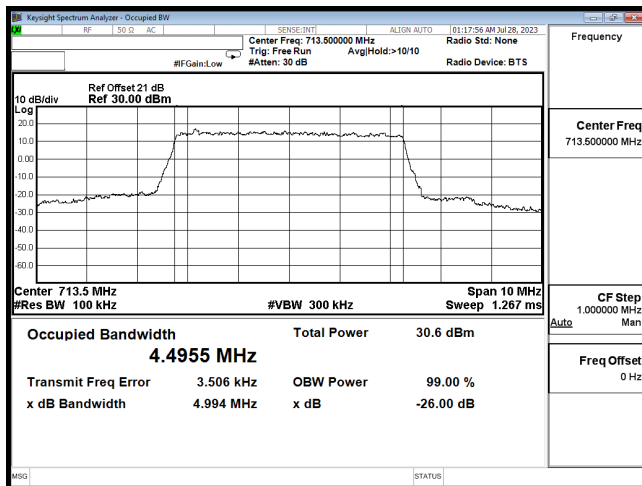
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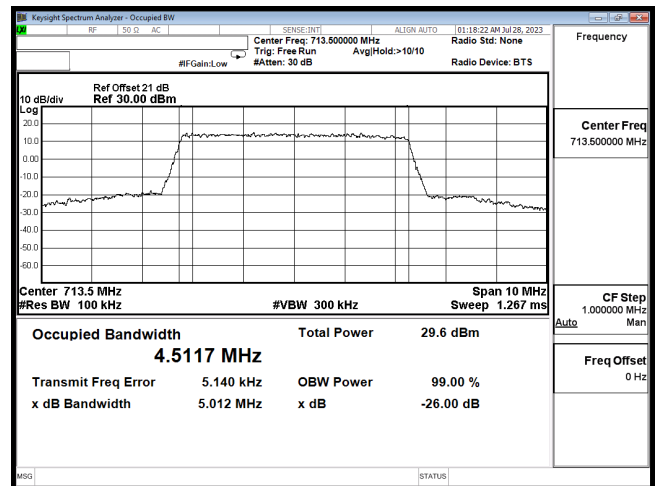
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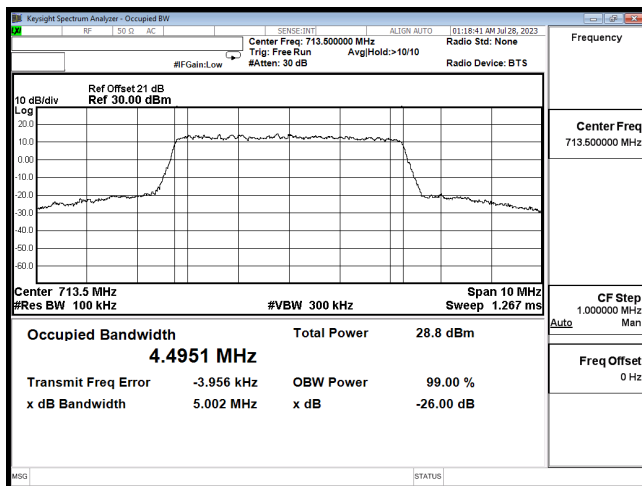
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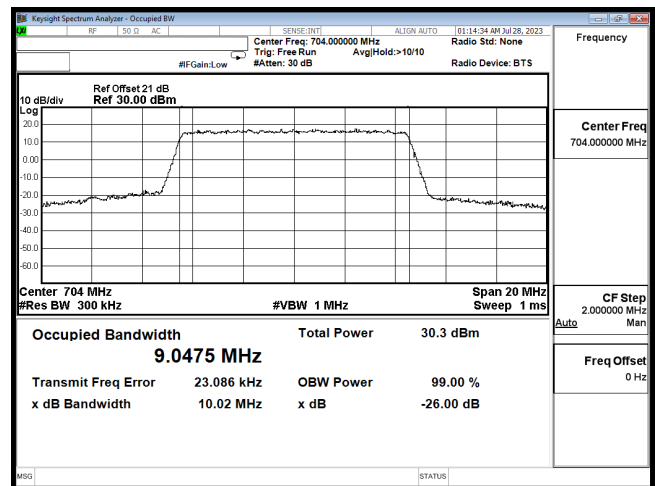
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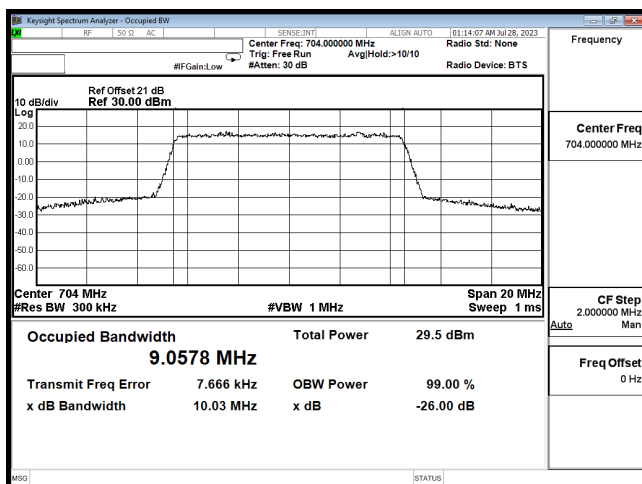
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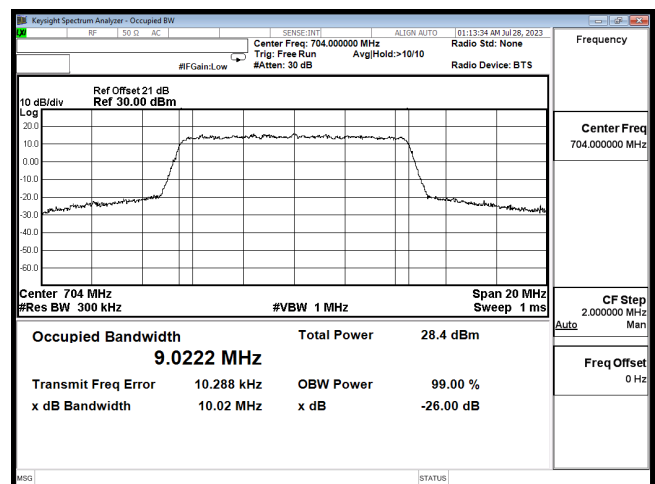
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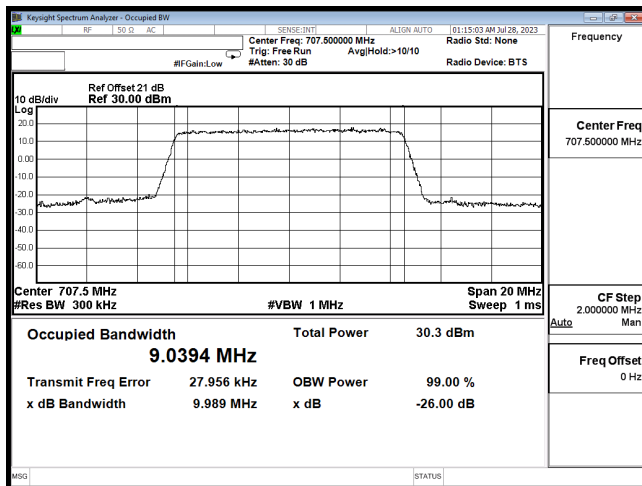
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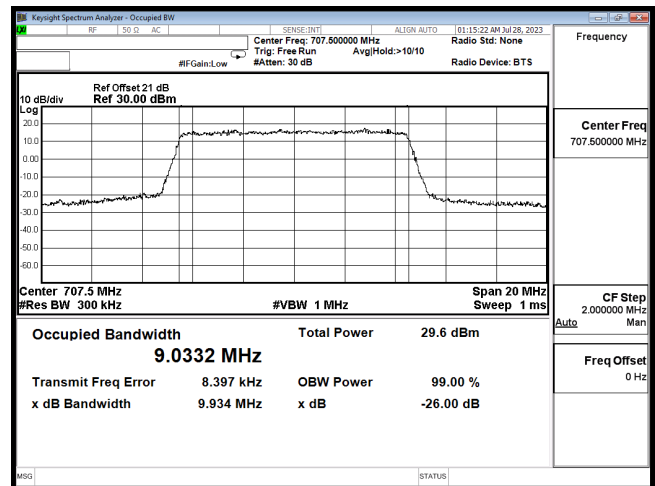
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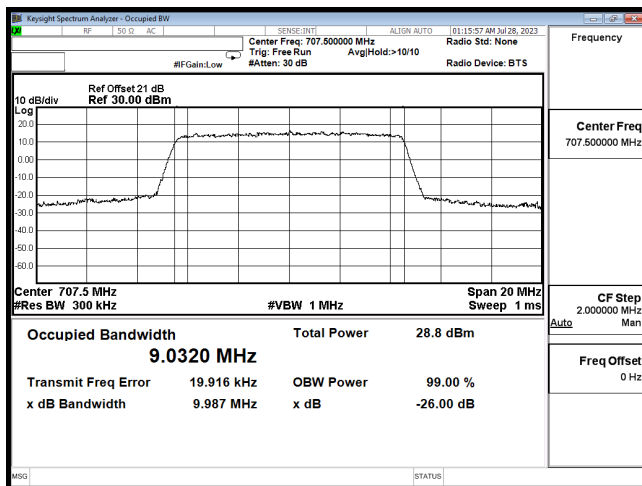
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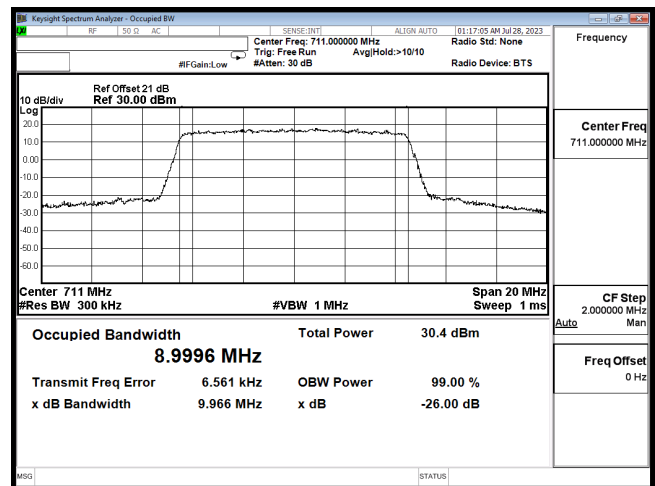
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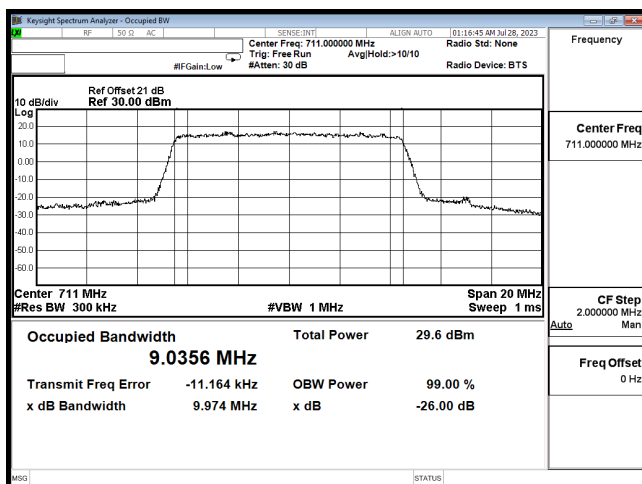
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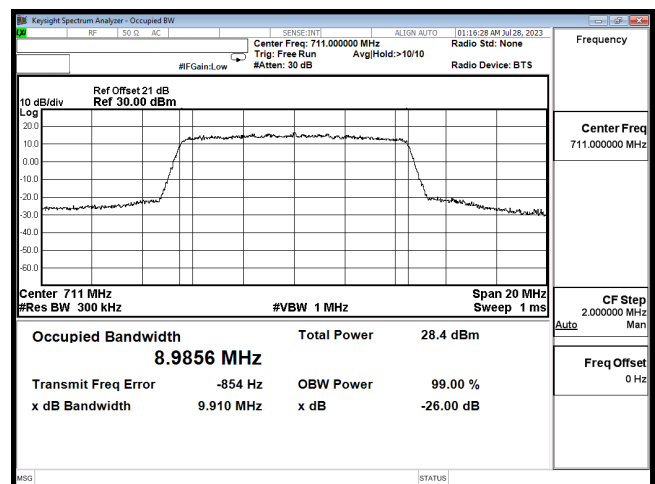
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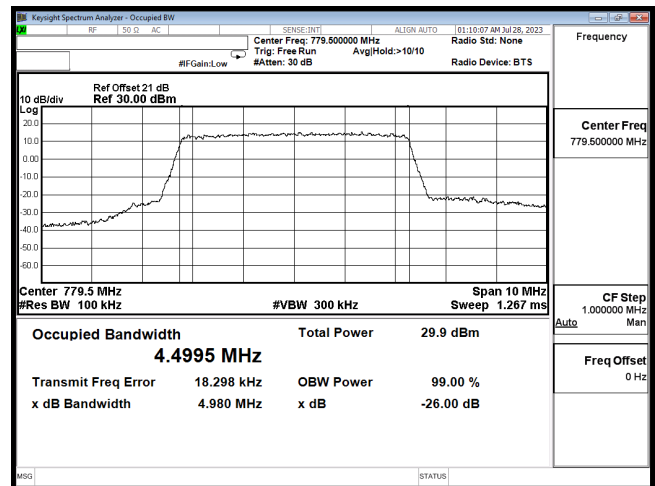
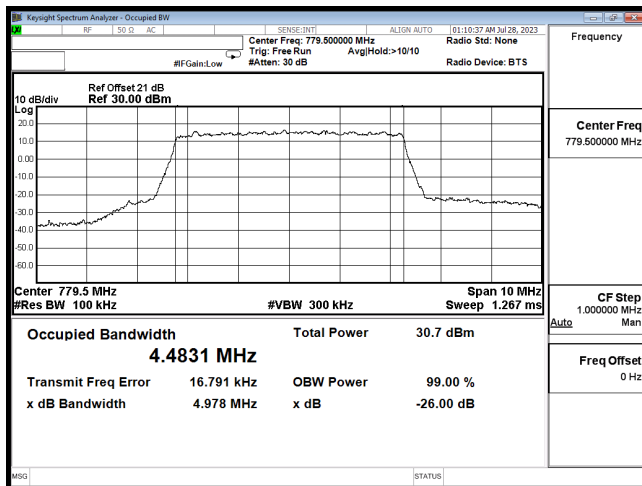


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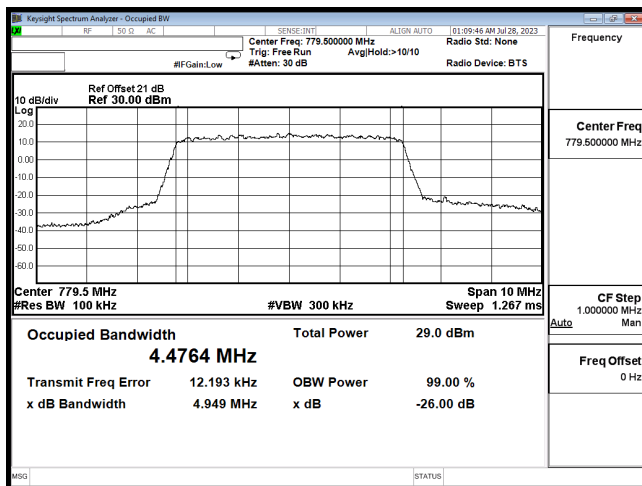


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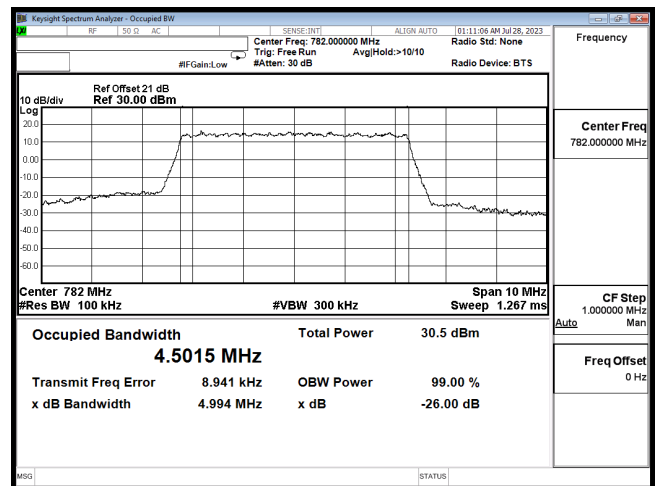
LTE Band 13



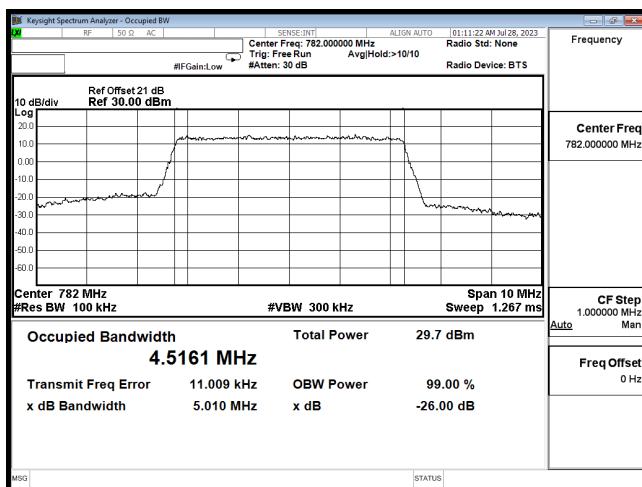
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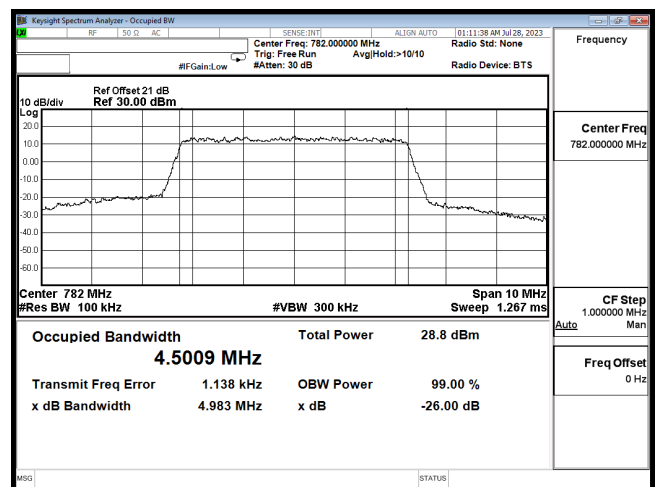
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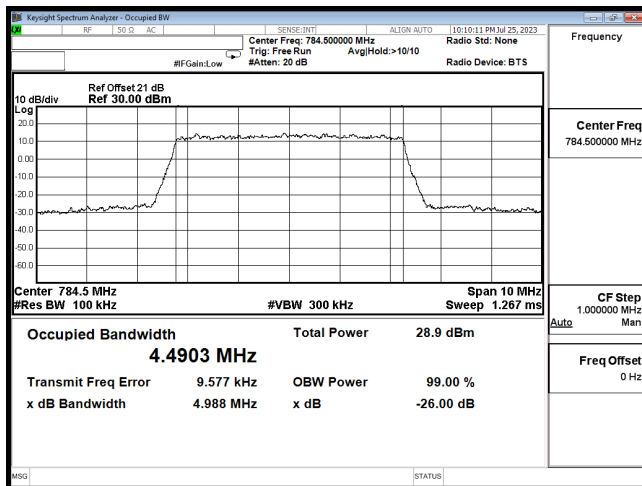


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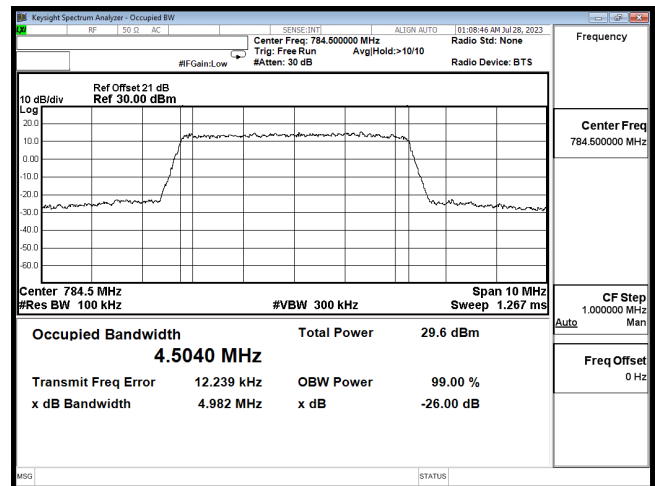


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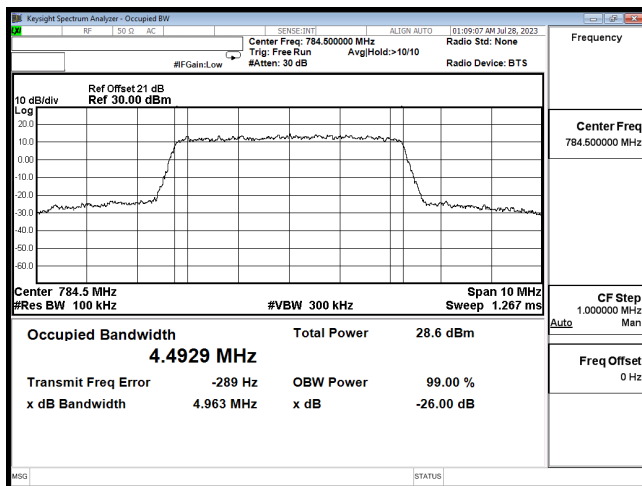
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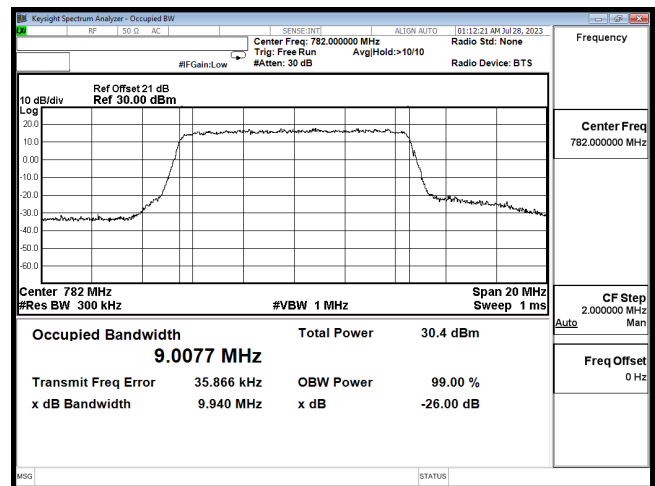
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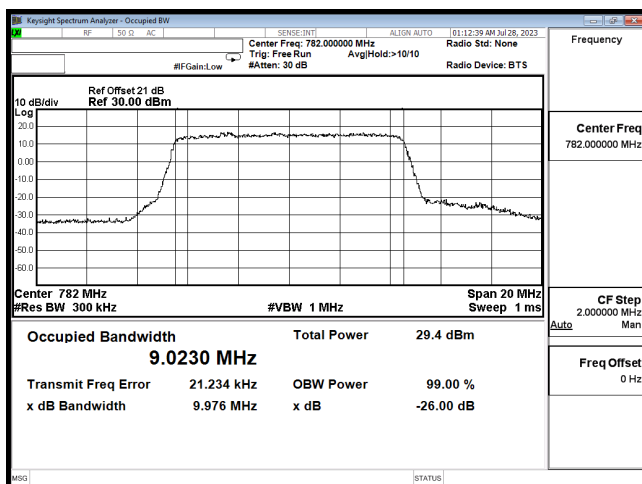
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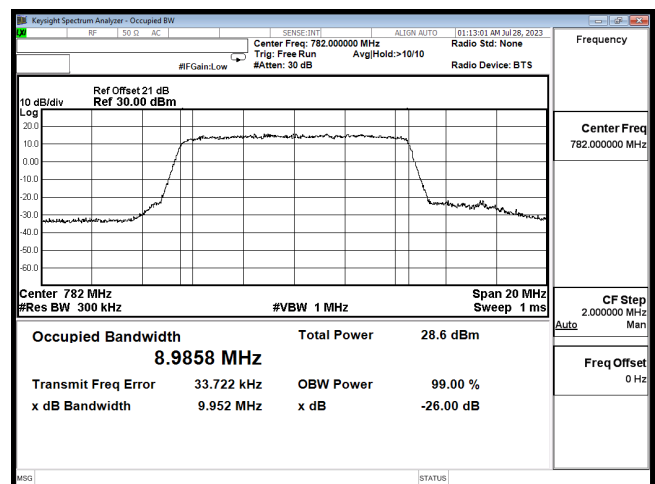
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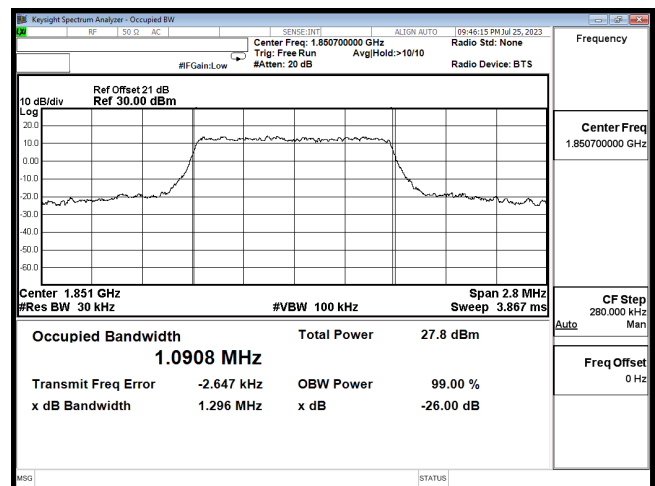
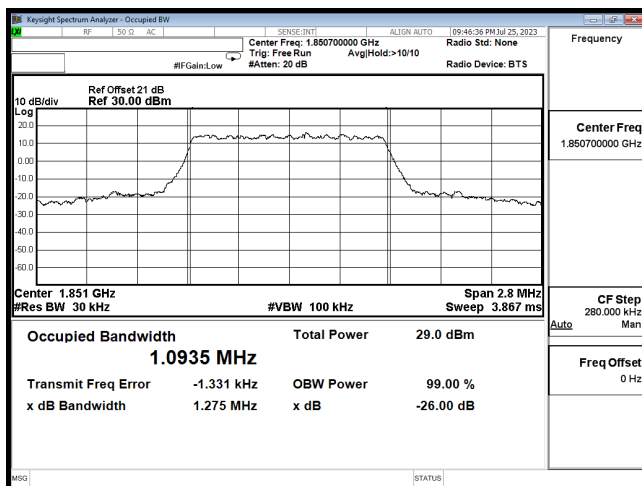
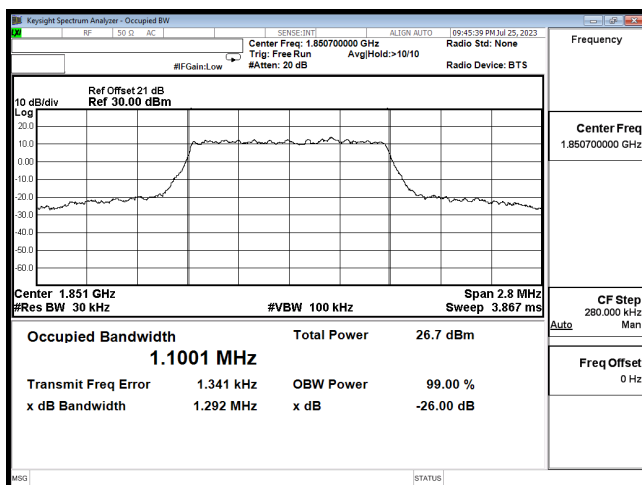
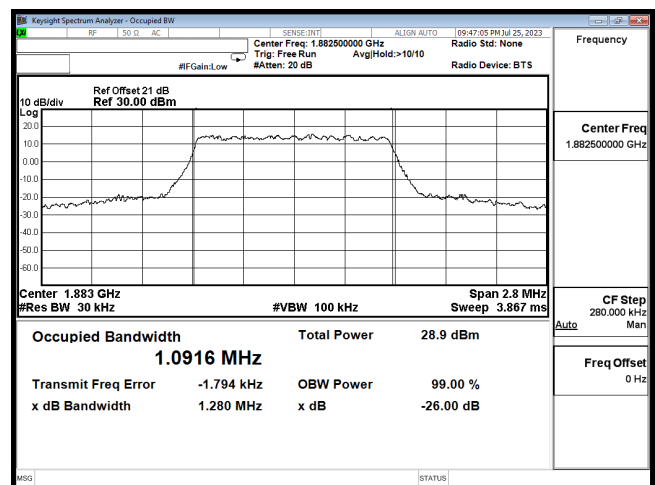
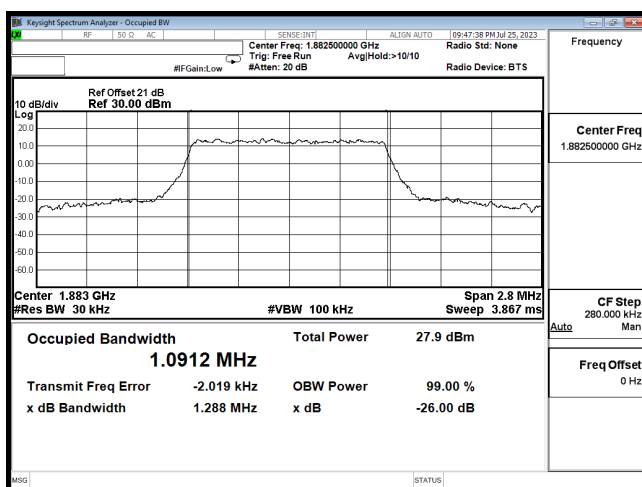
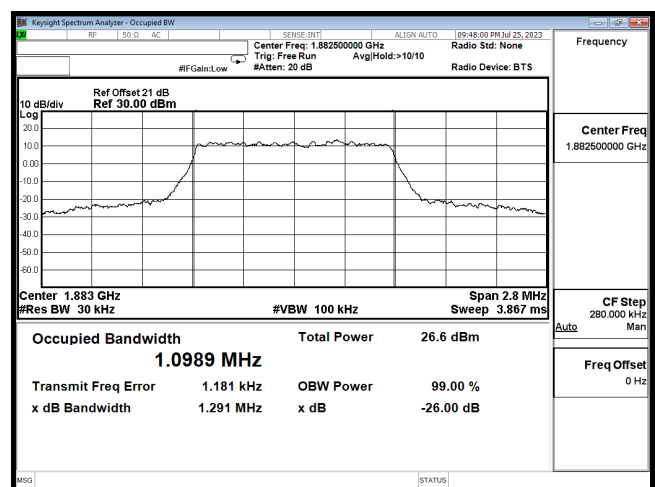
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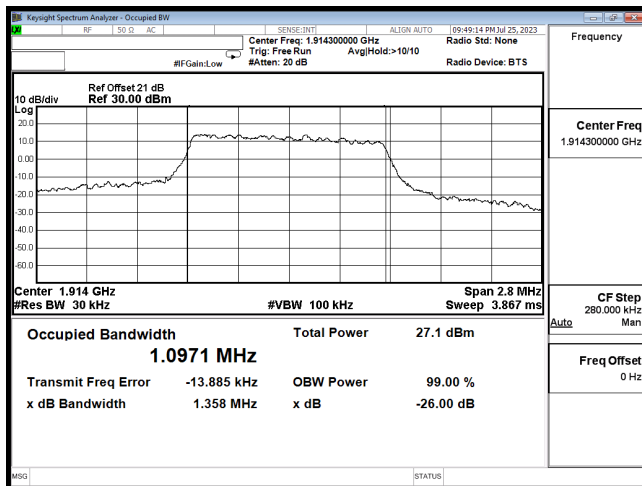


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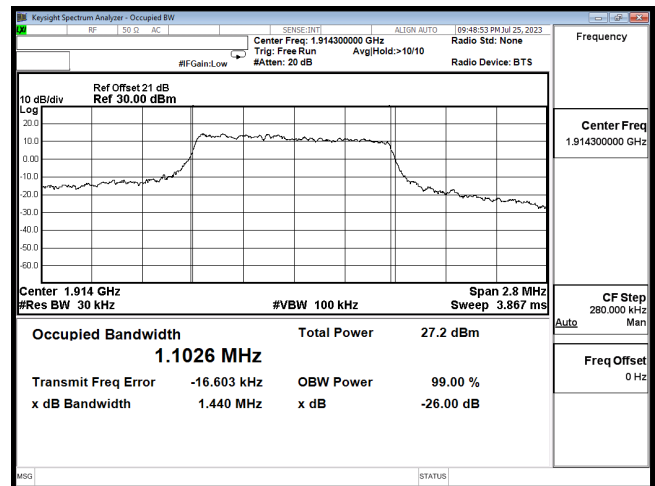


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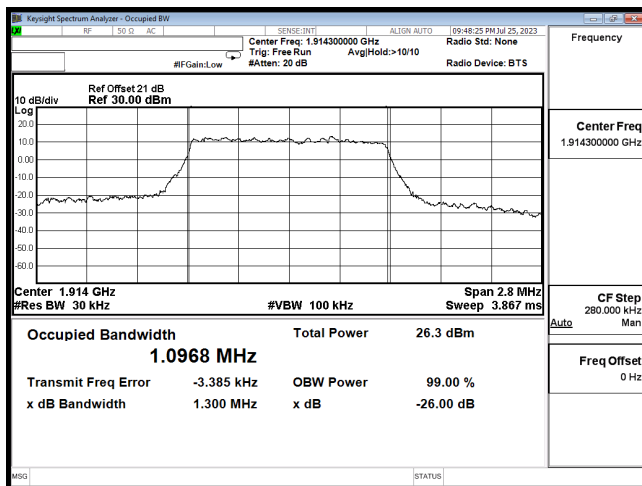
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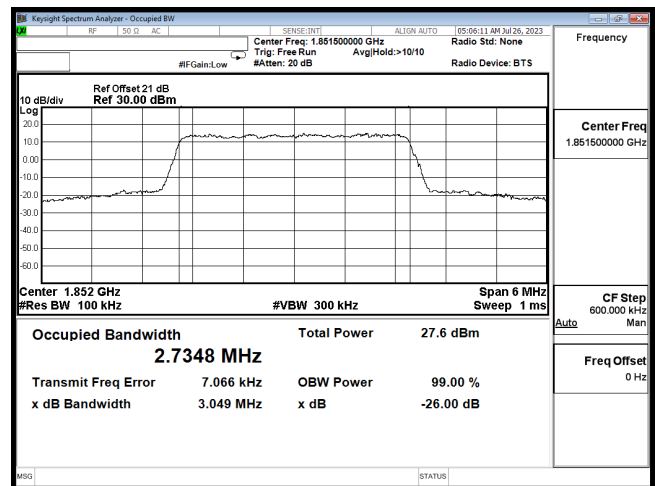
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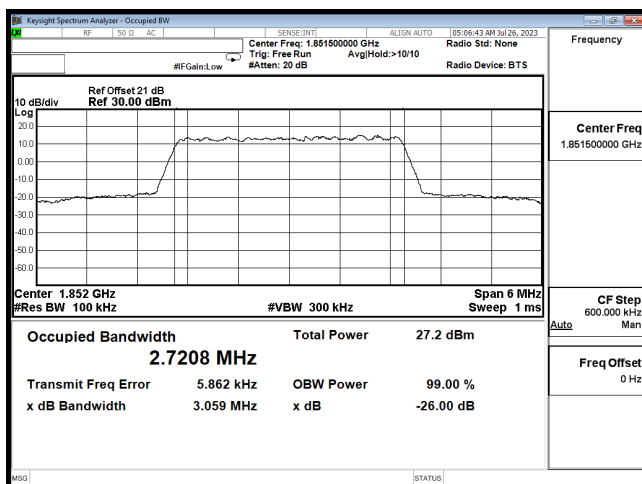
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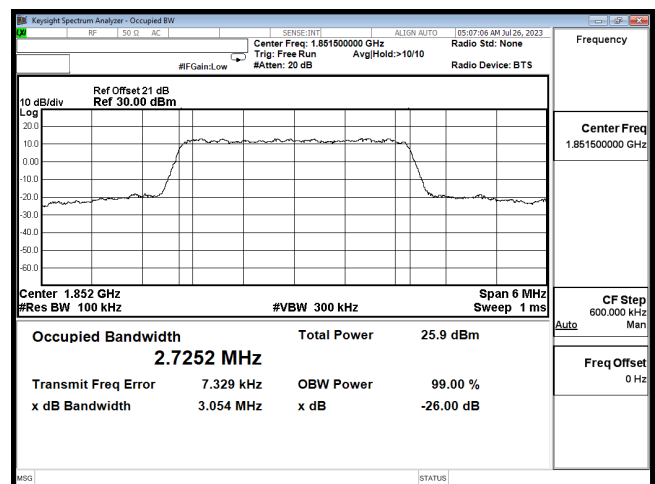
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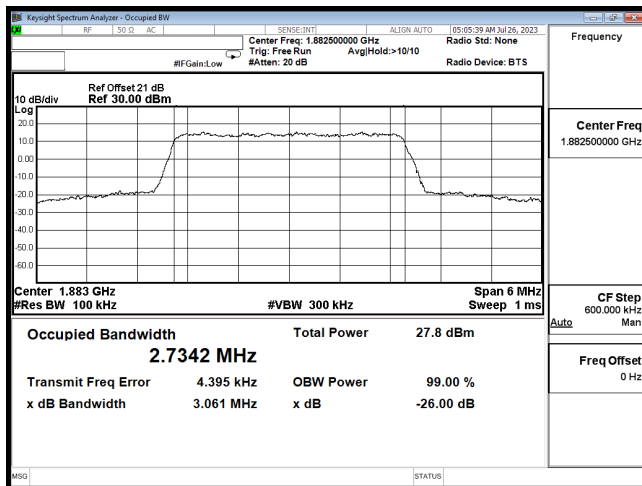
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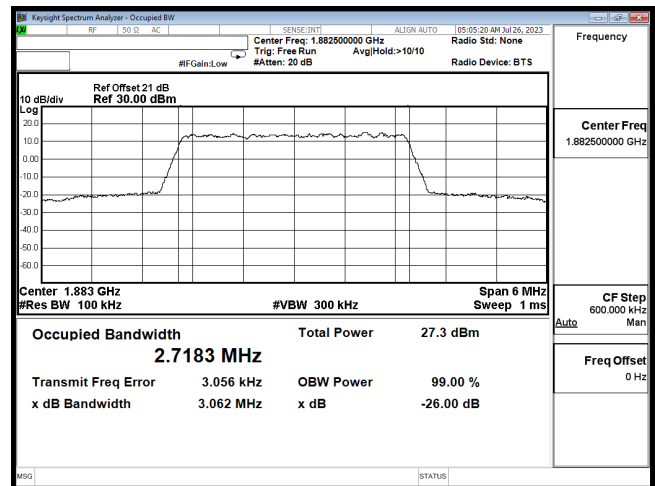
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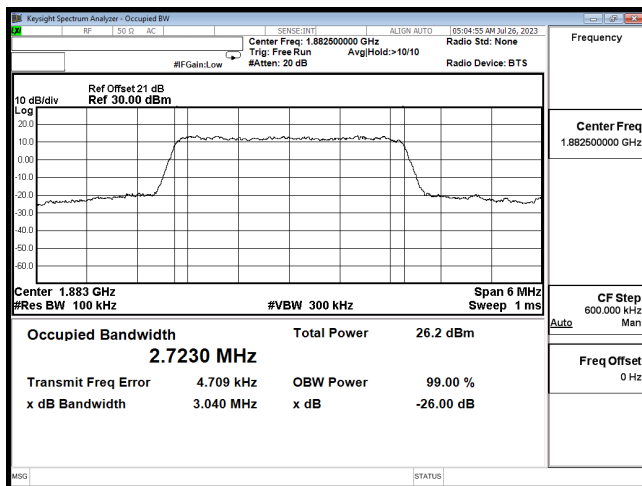
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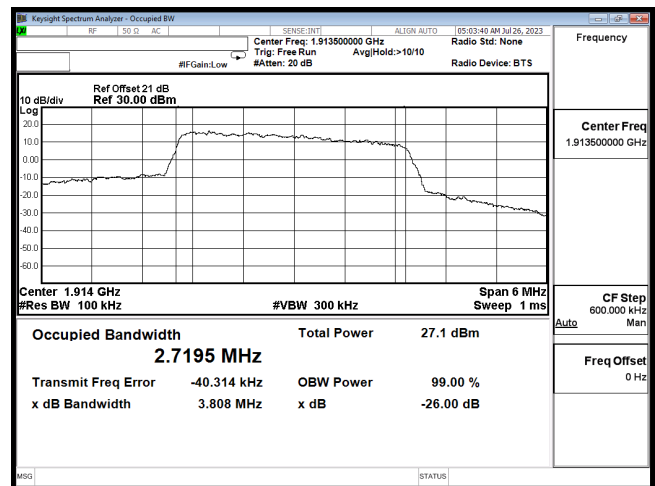
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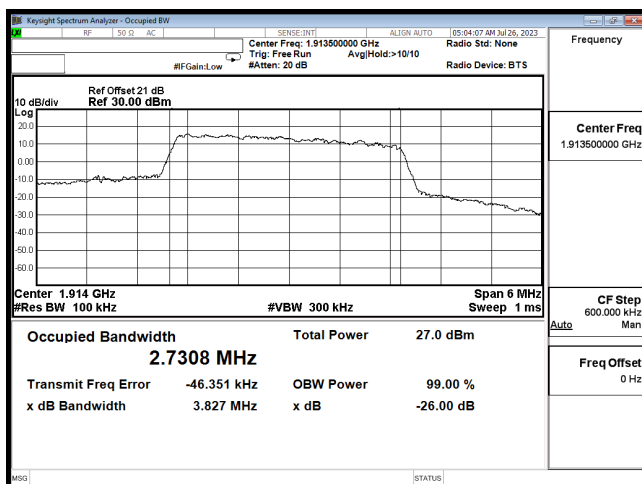
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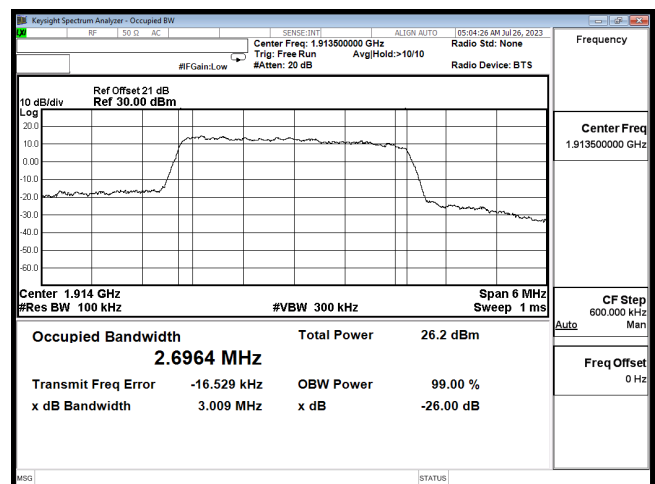
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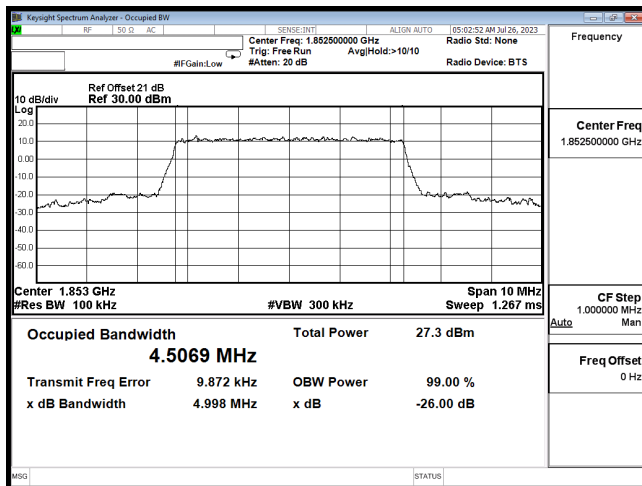
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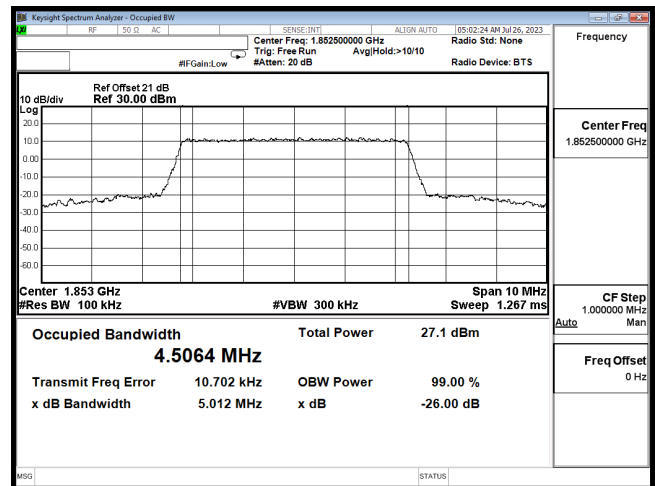
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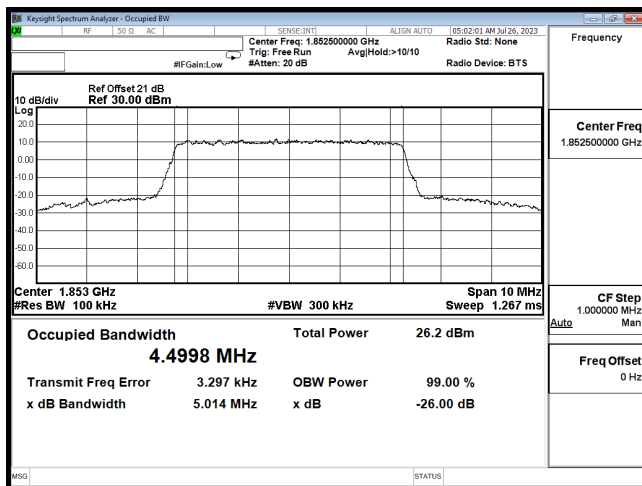
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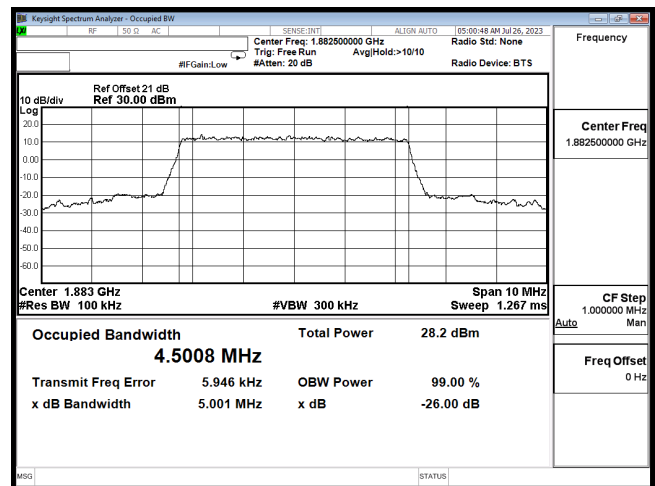
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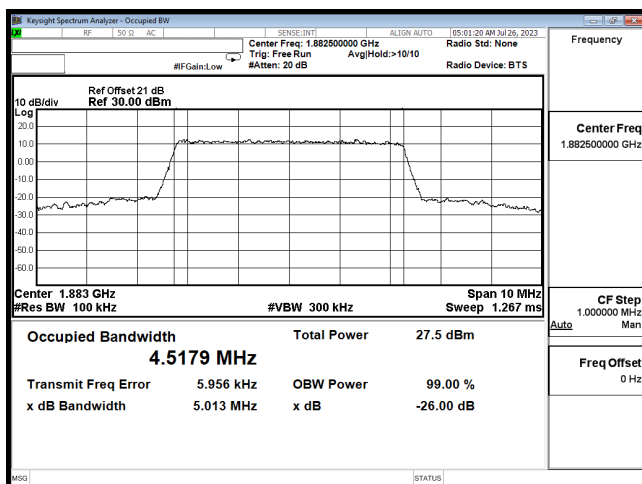
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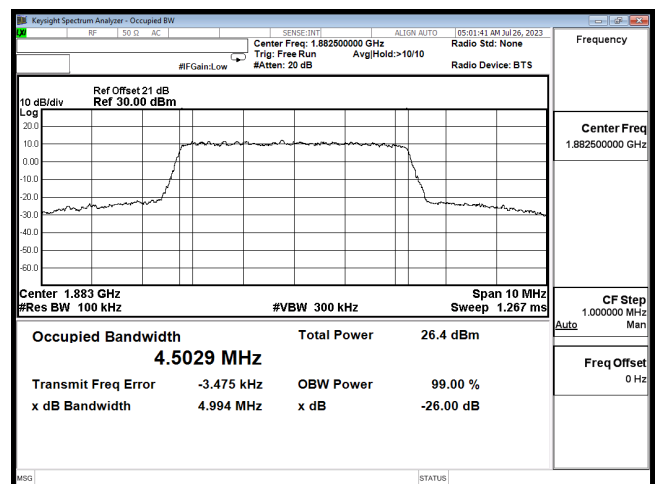
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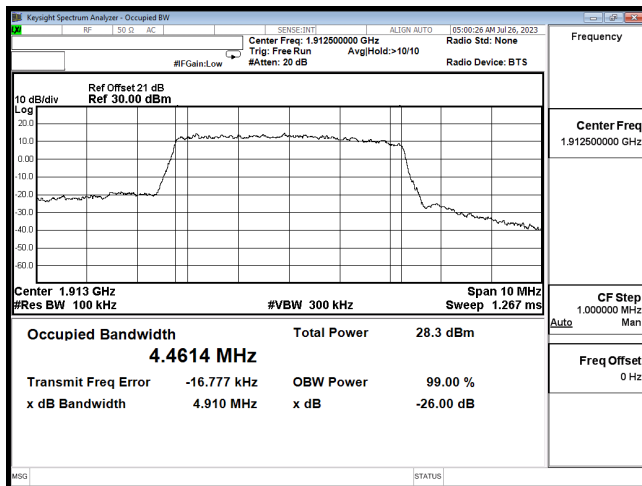
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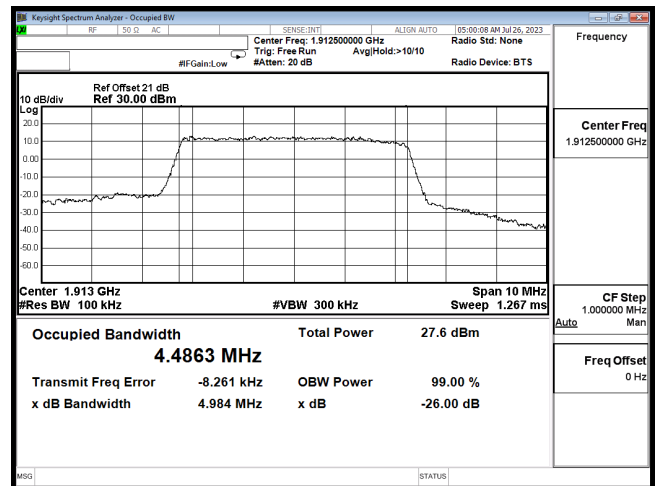
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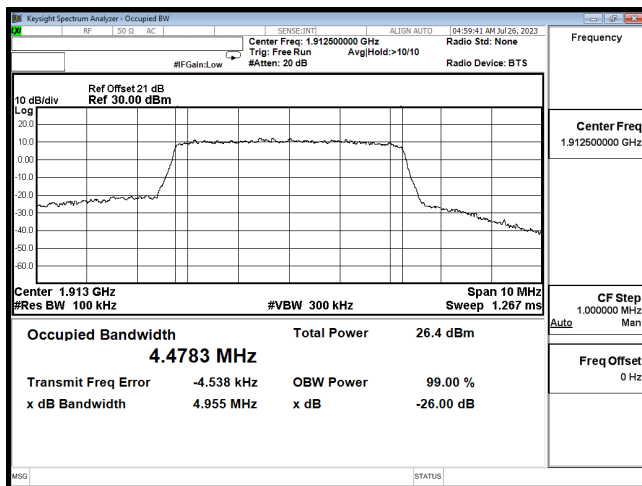
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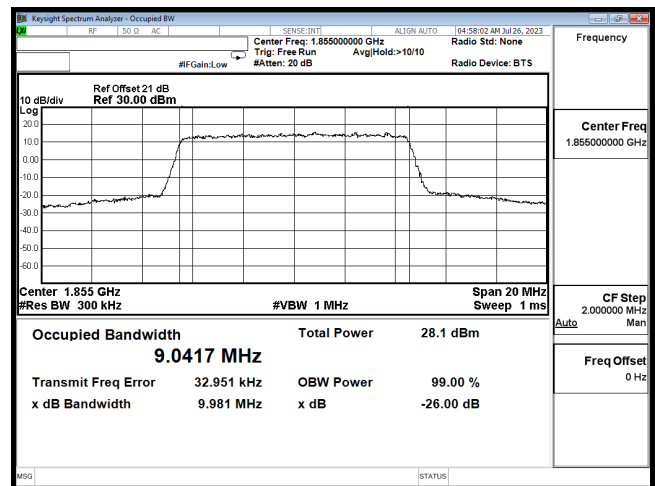
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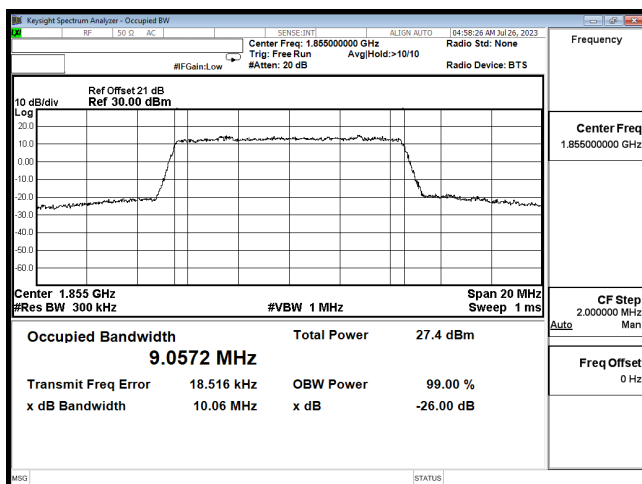
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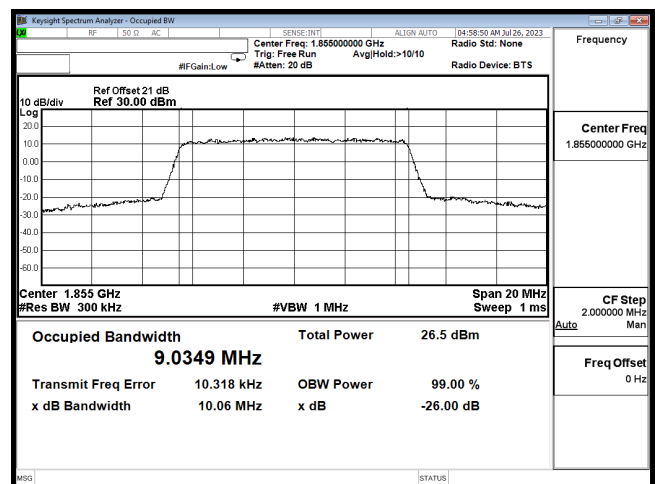
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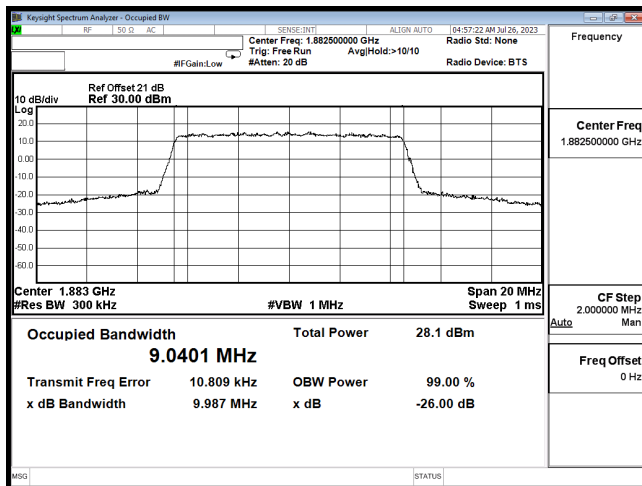
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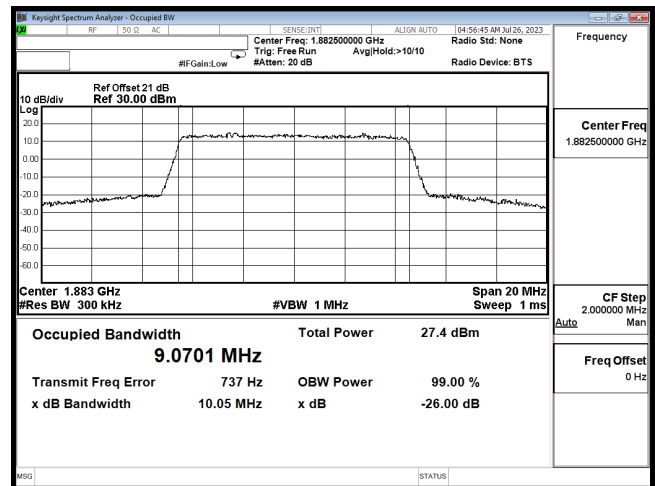
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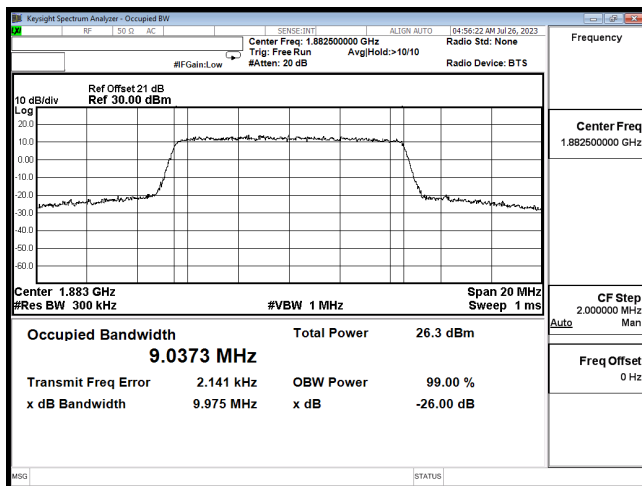
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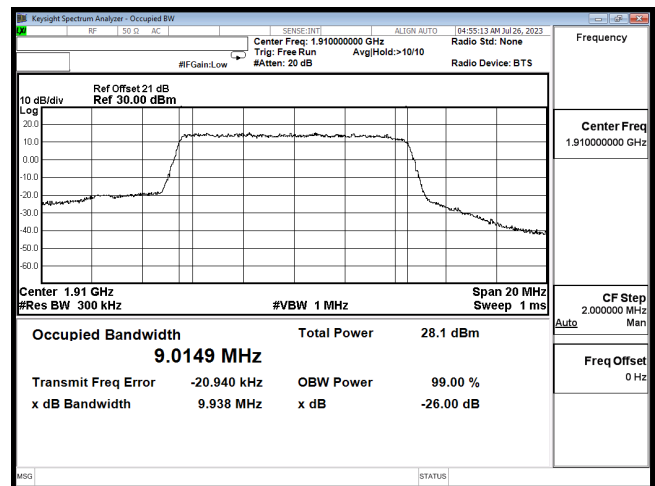
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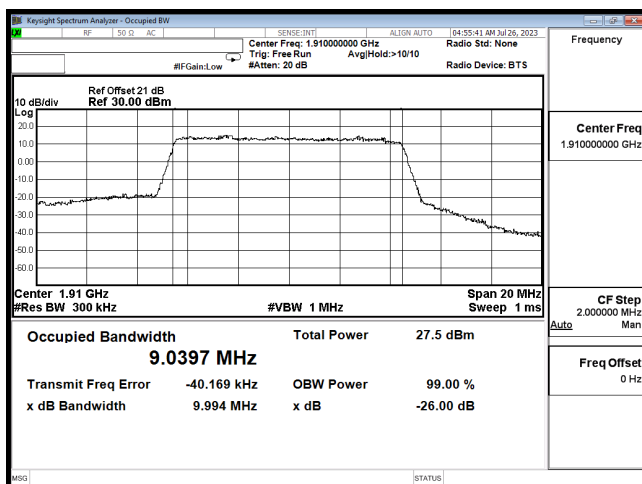
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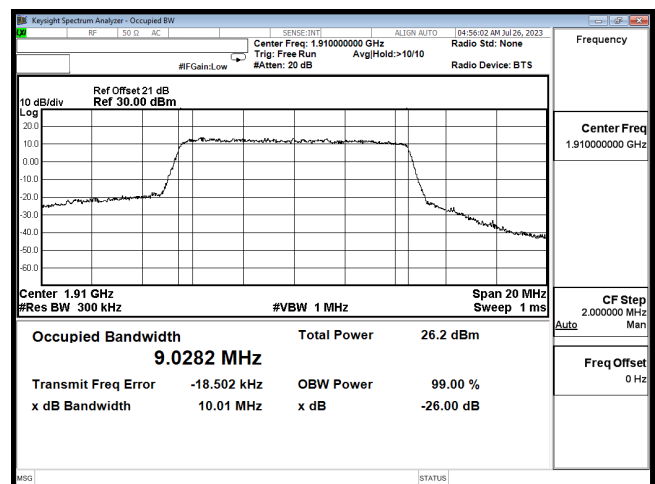
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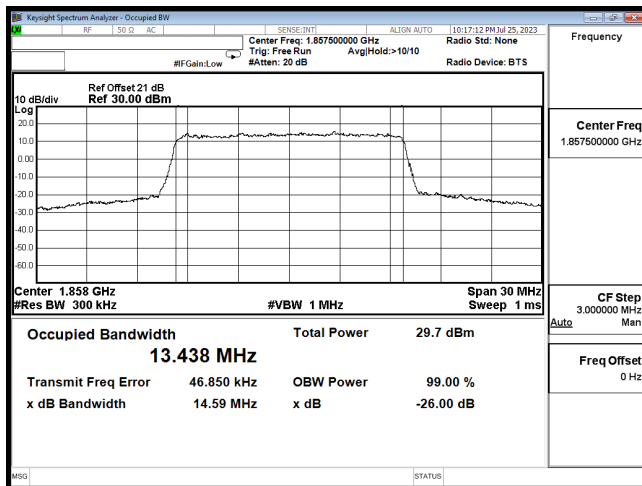
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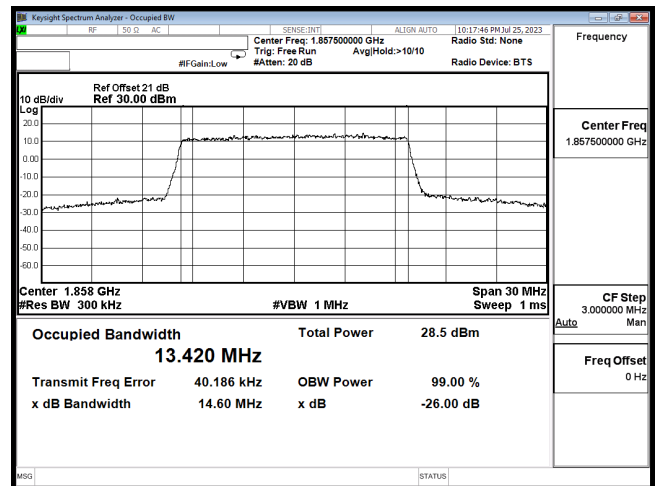
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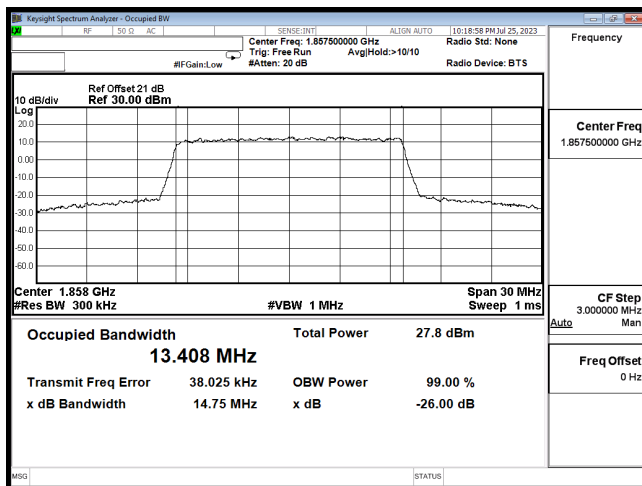
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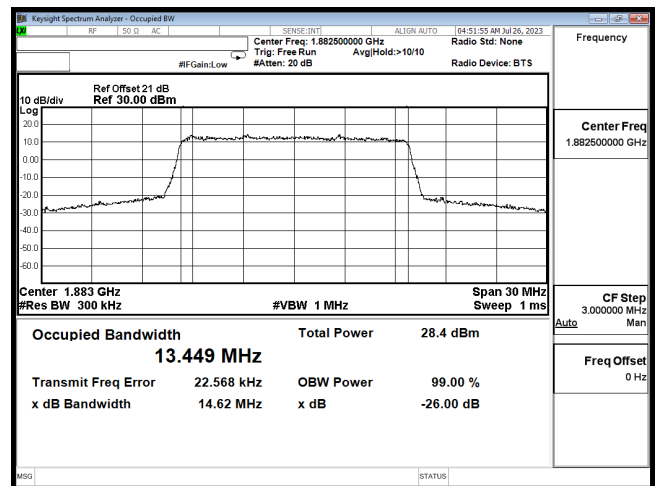
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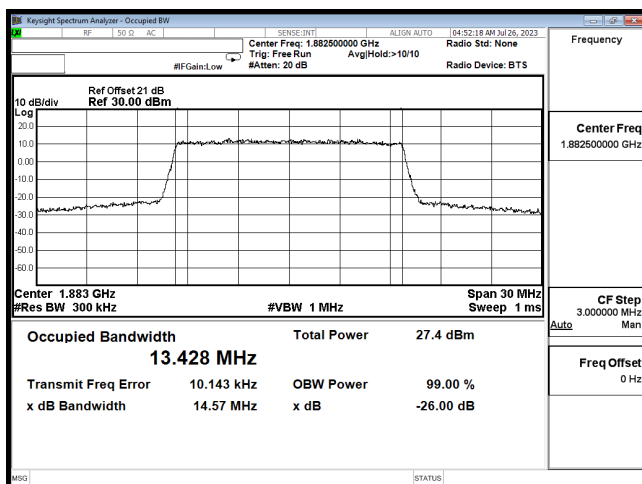
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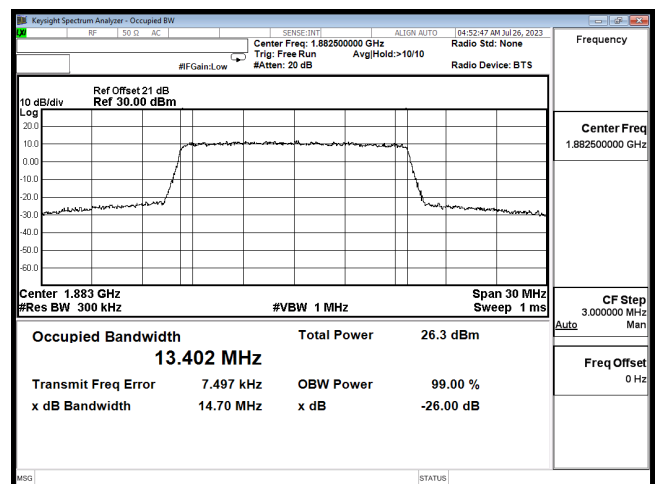
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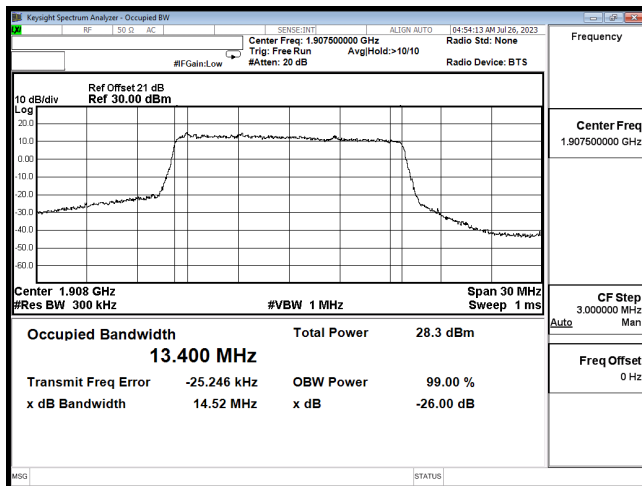
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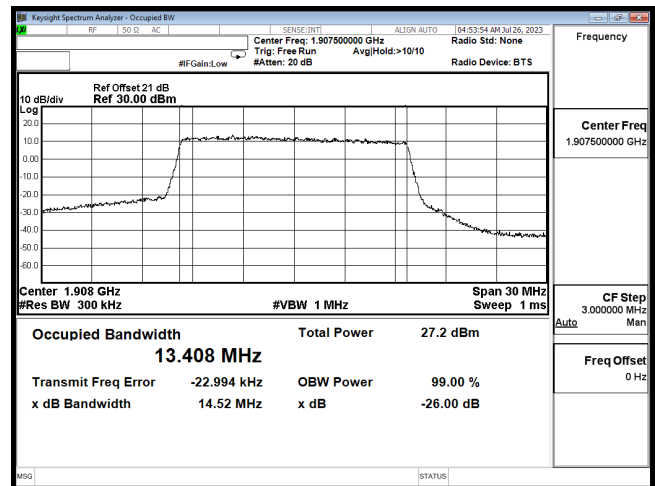
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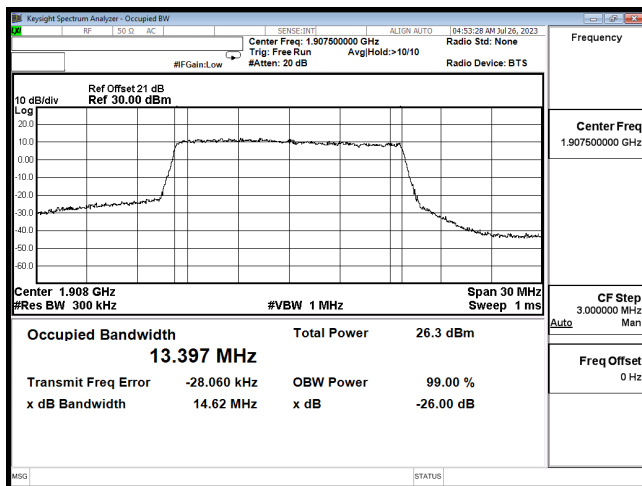
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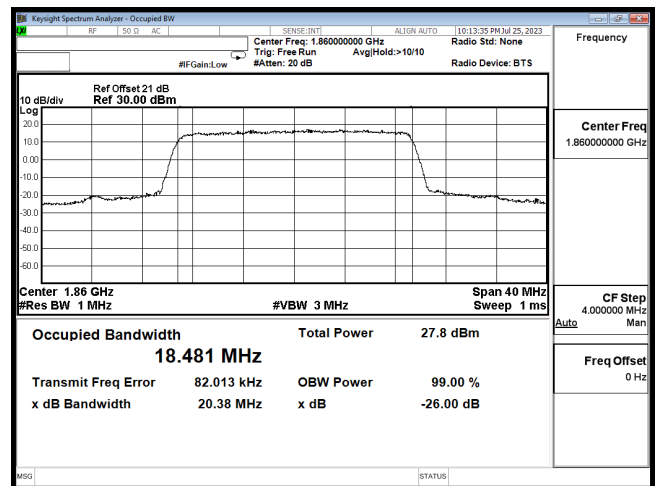
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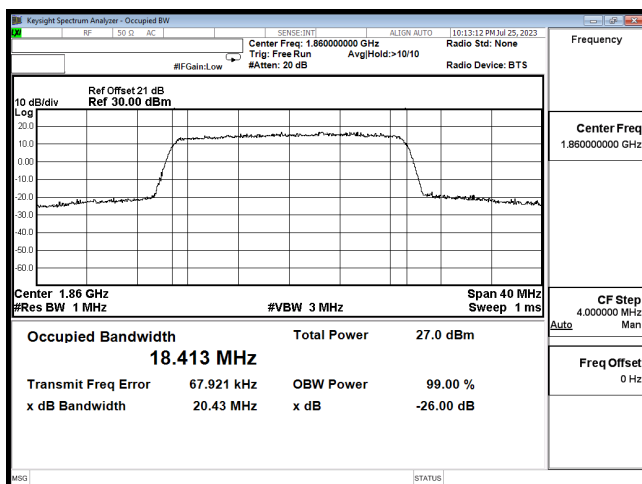
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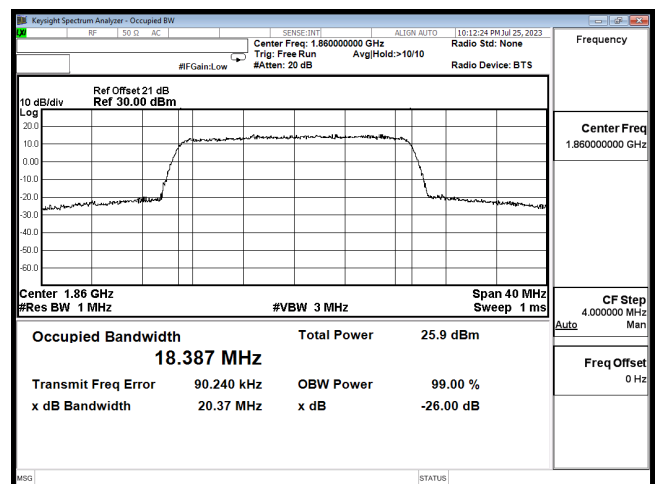
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OCC B25 20M CH26140 16QAM



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