

FCC Test Report

Product Name : LV55
Trade Name : WNC
Model No. : LVSKIHP
FCC ID : NKR-LVSK-IHP

Applicant : Wistron NeWeb Corporation

Address : 20 Park Avenue II, Hsinchu Science Park, Hsinchu 308, Taiwan

Date of Receipt : May 29, 2020
Issued Date : Jul. 16, 2020
Report No. : 2050962R-E3042110012
Report Version : V1.0



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Test Report Certification

Issued Date : Jul. 16, 2020

Report No. : 2050962R-E3042110012



Product Name : LV55
Applicant : Wistron NeWeb Corporation
Address : 20 Park Avenue II, Hsinchu Science Park, Hsinchu 308,
Taiwan
Manufacturer : Wistron NeWeb Corporation
Address : 20 Park Avenue II, Hsinchu Science Park, Hsinchu 308,
Taiwan
Trade Name : WNC
Model No. : LVSKIHP
FCC ID : NKR-LVSK-IHP
EUT Adapter Rated Voltage : AC 100-240V / 50-60Hz
EUT Adapter Test Voltage : AC 120V / 60Hz
Applicable Standard : FCC CFR Title 47 Part 22 Subpart H
FCC CFR Title 47 Part 24 Subpart E
FCC CFR Title 47 Part 27 Subpart L, Subpart F
Test Lab : Hsin Chu Laboratory
Address : No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township,
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TEL: +886-3-582-8001 / FAX: +886-3-582-8958
Test Result : Complied

Documented By :



(Carol Tsai / Senior Engineering Adm. Specialist)

Tested By :



(Max Chang / Senior Engineer)

Approved By :



(Louis Hsu / Deputy Manager)

Revision History

Version	Description	Issued Date
V1.0	Initial issue of report	Jul. 16, 2020

TABLE OF CONTENTS

Description	Page
1. General Information	6
1.1. EUT Description	6
1.2. Mode of Operation	8
1.3. Tested System Details	9
1.4. Configuration of Tested System	9
1.5. Operation Descriptions	10
1.6. Comments and Remarks	10
2. Technical Test	11
2.1. Summary of Test Result	11
2.2. List of Test Equipment	15
2.3. Measurement Uncertainty	18
2.4. Test Environment	19
3. RF Output Power	20
3.1. Test Setup	20
3.2. Test Procedure	20
3.3. Test Method	20
3.4. Test Result	21
4. Occupied Bandwidth	61
4.1. Test Setup	61
4.2. Test Procedure	61
4.3. Test Method	61
4.4. Test Result	62
5. Peak To Average Ratio	173
5.1. Test Setup	173
5.2. Test Procedure	173
5.3. Test Method	173
5.4. Test Result	174
6. Spurious Emissions	232
6.1. Test Setup	232
6.2. Test Procedure	233
6.3. Test Method	233
6.4. Test Result	234
7. Spurious Emissions at Antenna Terminals	298
7.1. Test Setup	298
7.2. Test Procedure	298

7.3. Test Method	298
7.4. Test Result	299
8. Frequency Stability	335
8.1. Test Setup	335
8.2. Test Procedure	336
8.3. Test Method	336
8.4. Test Result	337
Attachment 1	359
Test Setup Photograph	359

1. General Information

1.1. EUT Description

Product Name	LV55
Trade Name	WNC
Model No.	LVSKIHP
Uplink Frequency Range (MHz)	Band 2: 1850~1910 Band 5: 824~849 Band 13: 777~787 Band 66: 1710~1780
Downlink Frequency Range (MHz)	Band 2: 1930~1990 Band 5: 869~894 Band 13: 746~756 Band 66: 2110~2200
2UL CA List	2A-5A, 2A-13A, 2A-66A, 5A-66A, 13A-66A
Modulation	QPSK /16QAM / 64QAM
HW Version	0.0.2
SW Version	0.23.9.1dbg
IMEI No.	355806710003510

Accessories Information	
Power Adapter (1) (White/Black)	MFR: Delta, M/N: ADP-120VH D Input: AC 100-240V~2.5A, 50-60Hz Output: 20V, 6A Cable Out: Non-Shielded, 3.0m Power Cord: Non-Shielded, 2m
Power Adapter (2) (White/Black)	MFR: Delta, M/N: ADH-90AR B Input: AC 100-240V~2.0A, 50-60Hz Output: 56V, 1.61A Power Cord: Non-Shielded, 1.8m
PoE Surge Protective Device	MFR: Citel Model No.: CRMJ8-PoE-C6 Serial No.: N/A

Antenna Information					
No	Manufacturer	Model No.	Part No	Antenna Type	Peak Gain
1	WNC	95XKAC15.GD SVZ	LTE1(ANT_1)	MonoPole Antenna	-0.69dBi for Band 13 -1.49dBi for Band 5 3.28dBi for Band 66 1.76dBi for Band 2
2	WNC	95XKAC15.GD SVZ	LTE2(ANT_3)	MonoPole Antenna (RX functions)	2.32dBi for Band 66 1.57dBi for Band 2
3	WNC	95XKAC15.GD TVZ	LTE3(ANT_4)	MonoPole Antenna (RX functions)	2.5dBi for Band 66 2.25dBi for Band 2
4	WNC	95XKAC15.GD RVZ	LTE4(ANT_2)	MonoPole Antenna	-1.12dBi for Band 13 0.63dBi for Band 5 2.15dBi for Band 66 2.22dBi for Band 2

Note:

1. Regarding frequency band operation, the lowest, middle and highest frequency of channel were selected to perform the test, and the details were shown on this report.
2. The EUT description is from the customer declaration.

1.2. Mode of Operation

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
Mode 2: LTE Band 5
Mode 3: LTE Band 13
Mode 4: LTE Band 66
Mode 5: LTE CA_2A-5A
Mode 6: LTE CA_2A-13A
Mode 7: LTE CA_2A-66A
Mode 8: LTE CA_5A-66A
Mode 9: LTE CA_13A-66A

Note :

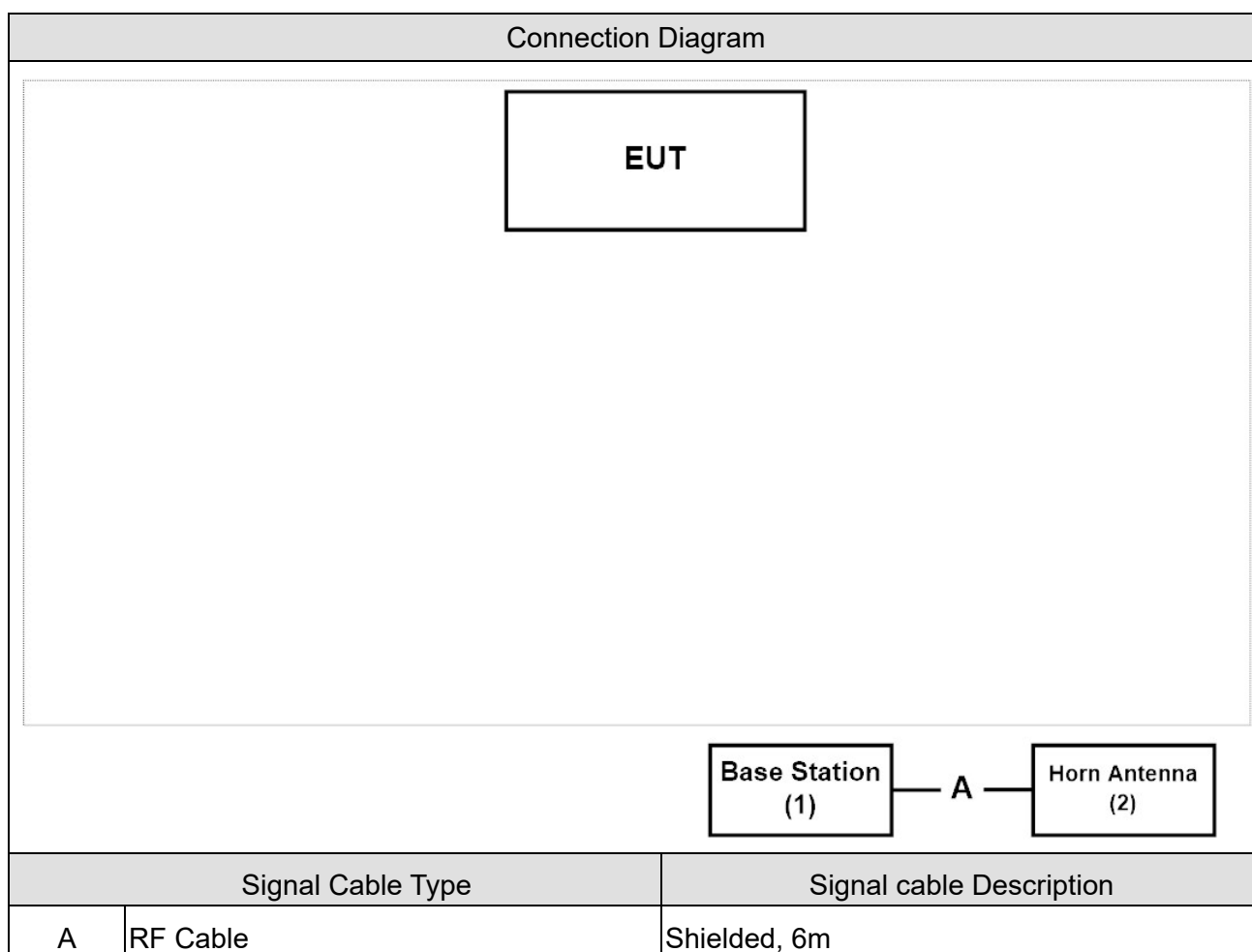
1. WWAN module ANT_1 support TX/RX functions and support 2UL CA PCC functions.
2. WWAN module ANT_3 and ANT_4 support RX functions.
3. WWAN module ANT_2 2UL CA SCC functions and RX functions.
4. The adapter mode and the PoE mode pre-scanning radiation has determined by the adapter mode is the worst case.
5. All operation modes has been verified and the report shows the worst case mode.

1.3. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product	Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1 Base Station	R&S	CMW500	106071	DoC	Non- Shielded, 2m
2 Horn Antenna	Schwarzbeck	BBHA 9120D	1640	DoC	--

1.4. Configuration of Tested System



1.5. Operation Descriptions

1	Setup the EUT and simulators as shown on 1.4.
2	Turn on the power of all equipment.
3	The EUT will continue receive the signal from LTE function.
4	Repeat the above procedure.

1.6. Comments and Remarks

The product specification and testing instructions for the EUT declared in the report are provided by the manufacturer who will take all responsibilities for the accuracy.

2. Technical Test

2.1. Summary of Test Result

- ☒ No deviations from the test standards
☐ Deviations from the test standards as below description:

B2

Uplink: 1850-1910MHz

Downlink: 1930-1990MHz

LTE B2			
FCC Part 24 Subpart E			
Test item	FCC Reference section	FCC Limit	Result
RF Output Power	§2.1033 §2.1046 §24.232	<2 Watts	Pass
Occupied Bandwidth	§2.1049	N/A	Pass
Peak-to-average power ratio	§24.232	<13 dB	Pass
Spurious Emissions	§2.1053 §24.238	<-13dBm	Pass
Spurious Emissions at Antenna Terminals	§27.238	<-13dBm	Pass
Frequency Stability	§2.1055 §24.235	<±2.5 ppm	Pass

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

B5

Uplink: 824-849MHz

Downlink: 869-894MHz

LTE B5			
FCC Part 22 Subpart H			
Test item	FCC Reference section	FCC Limit	Result
RF Output Power	§2.1033 §2.1046 §22.913	<7 Watts	Pass
Occupied Bandwidth	§2.1049	N/A	Pass
Peak-to-average power ratio	§22.913	<13 dB	Pass
Spurious Emissions	§2.1053 §22.917	<-13dBm	Pass
Spurious Emissions at Antenna Terminals	§22.917	<-13dBm	Pass
Frequency Stability	§2.1055 §22.335	<±2.5 ppm	Pass

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

B13

Uplink: 777-787MHz

Downlink: 746-756MHz

LTE B13			
FCC Part 27 Subpart F			
Test item	FCC Reference section	FCC Limit	Result
RF Output Power	§2.1033 §2.1046 §27.50	<3 Watts ERP	Pass
Occupied Bandwidth	§2.1049	N/A	Pass
Peak-to-average power ratio	§27.50	<-13 dB	Pass
Spurious Emissions	§2.1053 §27.53	<-13dBm	Pass
Spurious Emissions at Antenna Terminals	§27.53	<-13dBm	Pass
Frequency Stability	§2.1055 §27.54	<±2.5 ppm	Pass

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

B66

Uplink: 1710~1780MHz

Downlink: 2110~2200MHz

LTE B66			
FCC Part 27 Subpart L			
Test item	FCC Reference section	FCC Limit	Result
RF Output Power	§2.1033 §2.1046 §27.50	<1 Watts	Pass
Occupied Bandwidth	§2.1049	N/A	Pass
Peak-to-average power ratio	§27.50	<13 dB	Pass
Spurious Emissions	§2.1053 §27.53	<-13dBm	Pass
Spurious Emissions at Antenna Terminals	§27.53	<-13dBm	Pass
Frequency Stability	§2.1055 §27.54	<2.5 ppm	Pass

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.2. List of Test Equipment

RF Output Power / SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30	2021/03/29
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2020/02/21	2021/02/20
Spectrum Analyzer	Keysight	N9030B	MY57140404	2020/06/03	2021/06/02
Spectrum Analyzer	Keysight	N9010B	MY57110159	2020/04/15	2021/04/14
Wireless Conn. Tseter	R&S	CMW500	157118	2019/08/08	2020/08/07
Wideband Radio Communication Tester	R&S	CMW500	106071	2020/02/03	2021/02/02

Occupied Bandwidth / SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30	2021/03/29
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2020/02/21	2021/02/20
Spectrum Analyzer	Keysight	N9030B	MY57140404	2020/06/03	2021/06/02
Spectrum Analyzer	Keysight	N9010B	MY57110159	2020/04/15	2021/04/14
Wireless Conn. Tseter	R&S	CMW500	157118	2019/08/08	2020/08/07
Wideband Radio Communication Tester	R&S	CMW500	106071	2020/02/03	2021/02/02

Peak To Average Ratio / SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30	2021/03/29
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2020/02/21	2021/02/20
Spectrum Analyzer	Keysight	N9030B	MY57140404	2020/06/03	2021/06/02
Spectrum Analyzer	Keysight	N9010B	MY57110159	2020/04/15	2021/04/14
Wireless Conn. Tseter	R&S	CMW500	157118	2019/08/08	2020/08/07
Wideband Radio Communication Tester	R&S	CMW500	106071	2020/02/03	2021/02/02

Conducted Band Edge Emissions / SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30	2021/03/29
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2020/02/21	2021/02/20
Spectrum Analyzer	Keysight	N9030B	MY57140404	2020/06/03	2021/06/02
Spectrum Analyzer	Keysight	N9010B	MY57110159	2020/04/15	2021/04/14
Wireless Conn. Tseter	R&S	CMW500	157118	2019/08/08	2020/08/07
Wideband Radio Communication Tester	R&S	CMW500	106071	2020/02/03	2021/02/02

Spurious Emission / CB2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2020/06/04	2021/06/03
Bilog Antenna	Teseq	CBL6112D	23191	2020/06/12	2021/06/11
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30	2021/03/29
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2020/02/21	2021/02/20
Signal Analyzer	R&S	FSVA40	101455	2019/10/21	2020/10/20
Horn Antenna	Schwarzbeck	BBHA 9170	202	2019/12/27	2020/12/26
Pre-Amplifier	DEKRA	AP-400C	201801231	2019/12/03	2020/12/02
Pre-Amplifier	EMCI	EMC11830I	980366	2019/12/03	2020/12/02
Horn Antenna	Schwarzbeck	BBHA 9120D	01656	2019/10/25	2020/10/24
Pre-Amplifier	DEKRA	AP-025C	12183122	2019/09/24	2020/09/23
Signal Analyzer	R&S	FSV40	101435	2019/07/08	2020/07/07
Wideband Radio Communication Tester	R&S	CMW500	106071	2020/02/03	2021/02/02
Wireless Conn. Tseter	R&S	CMW500	157118	2019/08/08	2020/08/07
Coaxial Cable(16m)	Huber+Suhner	SF104	CB2-H	2019/07/25	2020/07/24
EMI system	DEKRA	Version 1.0	CB2-H	NA	NA

Spurious Emissions at Antenna Terminals / SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30	2021/03/29
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2020/02/21	2021/02/20
Spectrum Analyzer	Keysight	N9030B	MY57140404	2020/06/03	2021/06/02
Spectrum Analyzer	Keysight	N9010B	MY57110159	2020/04/15	2021/04/14
Wireless Conn. Tseter	R&S	CMW500	157118	2019/08/08	2020/08/07
Wideband Radio Communication Tester	R&S	CMW500	106071	2020/02/03	2021/02/02

Frequency Stability Under Temperature & Voltage Variations / SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30	2021/03/29
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2020/02/21	2021/02/20
Spectrum Analyzer	Keysight	N9030B	MY57140404	2020/06/03	2021/06/02
Spectrum Analyzer	Keysight	N9010B	MY57110159	2020/04/15	2021/04/14
Wireless Conn. Tseter	R&S	CMW500	157118	2019/08/08	2020/08/07
Wideband Radio Communication Tester	R&S	CMW500	106071	2020/02/03	2021/02/02

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

2.3. Measurement Uncertainty

Test Item	Uncertainty
RF Output Power	$\pm 1.16\text{dB}$
Peak To Average Ratio	$\pm 2.11\text{dB}$
Spurious Emissions	$\pm 3.40\text{ dB below 1GHz}$ $\pm 3.46\text{ dB above 1GHz}$
Spurious Emissions at Antenna Terminals	$\pm 3.40\text{ dB below 1GHz}$ $\pm 3.46\text{ dB above 1GHz}$

2.4. Test Environment

Items	Test Item	Required	Test Site
Temperature (°C)	RF Output Power	15 - 35	3
Humidity (%RH)		20 - 75	
Temperature (°C)	Occupied Bandwidth	15 - 35	3
Humidity (%RH)		20 - 75	
Temperature (°C)	Peak To Average Ratio	15 - 35	3
Humidity (%RH)		20 - 75	
Temperature (°C)	Spurious Emission	15 - 35	2/3
Humidity (%RH)		20 - 75	
Temperature (°C)	Spurious Emissions at Antenna Terminals	15 - 35	3
Humidity (%RH)		20 - 75	
Temperature (°C)	Frequency Stability	15 - 35	3
Humidity (%RH)		20 - 75	

Note: Test site information refers to Laboratory Information.

USA : FCC Registration Number: TW3024

Canada CAB identifier : TW3024

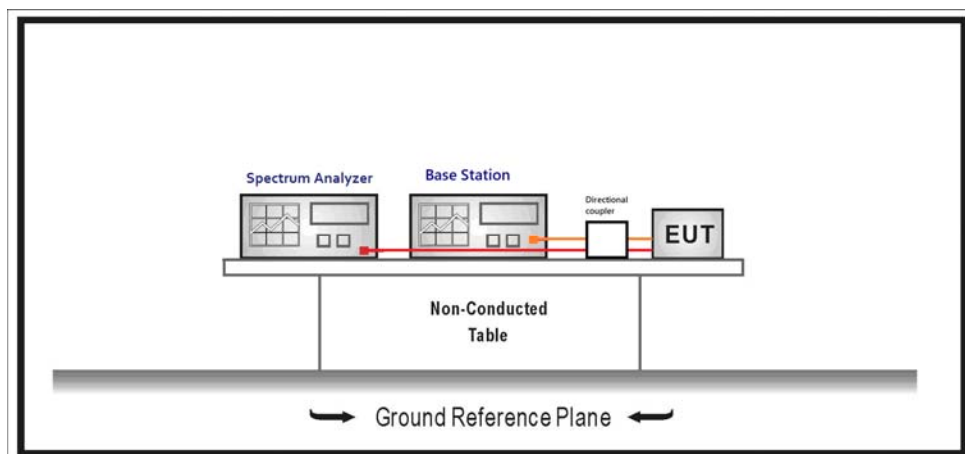
The address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our Web site: <http://www.dekra.com.tw>

If you have any comments, please don't hesitate to contact us. Our test sites as below:

Test Laboratory	DEKRA Testing and Certification Co., Ltd.
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E mail address	info.tw@dekra.com
Website	http://www.dekra.com.tw

3. RF Output Power

3.1. Test Setup



3.2. Test Procedure

- The RF output of the transmitter was connected to base station simulator.
- The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement..
- Set EUT at maximum average power by base station emulator.
- Measure lowest, middle, and highest channels for each bandwidth and different modulation.

Effective Isotropic Radiated Power = Conducted Power(dBm) + Antenna Gain(dBi)

Effective Radiated Power = Conducted Power(dBm) + Antenna Gain(dBi) - 2.15dB

3.3. Test Method

KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause 5.2.4

ANSI C63.26-2015 Sub-clause 5.2.4.2

3.4. Test Result

Product	LV55		
Test Item	RF Output Power		
Test Mode	Mode 1: LTE Band 2		
Date of Test	2020/06/08~2020/06/10	Test Site	SR12-H
Temperature (°C)	24	Humidity (%RH)	60

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 2 1.4MHz	18607 1850.7	QPSK	1	0	0	23.52	0.337	2
		QPSK		2		23.50	0.336	2
		QPSK		5		23.49	0.335	2
		QPSK	6	0	1	22.63	0.275	2
		16-QAM	1	0	1	22.23	0.251	2
		16-QAM		2		22.24	0.251	2
		16-QAM		5		22.27	0.253	2
		16-QAM	6	0	2	21.60	0.217	2
	18900 1880	QPSK	1	0	0	23.68	0.350	2
		QPSK		2		23.66	0.348	2
		QPSK		5		23.72	0.353	2
		QPSK	6	0	1	22.71	0.280	2
		16-QAM	1	0	1	22.69	0.279	2
		16-QAM		2		22.72	0.281	2
		16-QAM		5		22.76	0.283	2
		16-QAM	6	0	2	22.92	0.294	2
	19193 1909.3	QPSK	1	0	0	23.54	0.339	2
		QPSK		2		23.53	0.338	2
		QPSK		5		23.60	0.344	2
		QPSK	6	0	1	22.58	0.272	2
		16-QAM	1	0	1	22.46	0.264	2
		16-QAM		2		22.44	0.263	2
		16-QAM		5		22.46	0.264	2
		16-QAM	6	0	2	21.60	0.217	2

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 2 1.4MHz	18607 1850.7	64-QAM	1	0	1	21.47	0.210	2
		64-QAM		2		21.79	0.226	2
		64-QAM		5		21.86	0.230	2
		64-QAM	6	0	2	20.63	0.173	2
	18900 1880	64-QAM	1	0	1	21.36	0.205	2
		64-QAM		2		21.37	0.206	2
		64-QAM		5		21.17	0.196	2
		64-QAM	6	0	2	20.49	0.168	2
	19193 1909.3	64-QAM	1	0	1	20.77	0.179	2
		64-QAM		2		20.91	0.185	2
		64-QAM		5		20.63	0.173	2
		64-QAM	6	0	2	20.17	0.156	2

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 2 3MHz	18615 1851.5	QPSK	1	0	0	23.64	0.347	2
		QPSK		7		23.68	0.350	2
		QPSK		14		23.71	0.352	2
		QPSK	15	0	1	22.88	0.291	2
		16-QAM	1	0	1	23.34	0.324	2
		16-QAM		7		23.29	0.320	2
		16-QAM		14		23.34	0.324	2
		16-QAM	15	0	2	21.97	0.236	2
	18900 1880	QPSK	1	0	0	23.78	0.358	2
		QPSK		7		23.85	0.364	2
		QPSK		14		23.88	0.366	2
		QPSK	15	0	1	22.83	0.288	2
		16-QAM	1	0	1	22.82	0.287	2
		16-QAM		7		22.88	0.291	2
		16-QAM		14		22.91	0.293	2
		16-QAM	15	0	2	21.87	0.231	2
	19185 1908.5	QPSK	1	0	0	23.66	0.348	2
		QPSK		7		23.64	0.347	2
		QPSK		14		23.70	0.352	2
		QPSK	15	0	1	22.70	0.279	2
		16-QAM	1	0	1	22.54	0.269	2
		16-QAM		7		22.60	0.273	2
		16-QAM		14		22.56	0.270	2
		16-QAM	15	0	2	21.64	0.219	2

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 2 3MHz	18615 1851.5	64-QAM	1	0	1	21.11	0.194	2
		64-QAM		7		21.25	0.200	2
		64-QAM		14		21.18	0.197	2
		64-QAM	15	0	2	20.58	0.171	2
	18900 1880	64-QAM	1	0	1	21.19	0.197	2
		64-QAM		7		21.21	0.198	2
		64-QAM		14		21.25	0.200	2
		64-QAM	15	0	2	20.60	0.172	2
	19185 1908.5	64-QAM	1	0	1	20.86	0.183	2
		64-QAM		7		20.84	0.182	2
		64-QAM		14		20.63	0.173	2
		64-QAM	15	0	2	20.33	0.162	2

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 2 5MHz	18625 1852.5	QPSK	1	0	0	23.82	0.361	2
		QPSK		12		23.80	0.360	2
		QPSK		24		23.70	0.352	2
		QPSK	25	0	1	22.81	0.286	2
		16-QAM	1	0	1	22.82	0.287	2
		16-QAM		12		22.90	0.292	2
		16-QAM		24		22.92	0.294	2
		16-QAM	25	0	2	21.89	0.232	2
	18900 1880	QPSK	1	0	0	23.70	0.352	2
		QPSK		12		23.77	0.357	2
		QPSK		24		23.88	0.366	2
		QPSK	25	0	1	22.87	0.290	2
		16-QAM	1	0	1	22.82	0.287	2
		16-QAM		12		22.86	0.290	2
		16-QAM		24		22.96	0.296	2
		16-QAM	25	0	2	21.88	0.231	2
	19175 1907.5	QPSK	1	0	0	23.64	0.347	2
		QPSK		12		23.62	0.345	2
		QPSK		24		23.67	0.349	2
		QPSK	25	0	1	22.72	0.281	2
		16-QAM	1	0	1	23.09	0.305	2
		16-QAM		12		23.11	0.307	2
		16-QAM		24		23.13	0.308	2
		16-QAM	25	0	2	21.72	0.223	2

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 2 5MHz	18625 1852.5	64-QAM	1	0	1	21.10	0.193	2
		64-QAM		12		21.18	0.197	2
		64-QAM		24		21.20	0.198	2
		64-QAM	25	0	2	20.73	0.177	2
	18900 1880	64-QAM	1	0	1	21.16	0.196	2
		64-QAM		12		21.22	0.199	2
		64-QAM		24		21.26	0.200	2
		64-QAM	25	0	2	20.72	0.177	2
	19175 1907.5	64-QAM	1	0	1	21.11	0.194	2
		64-QAM		12		21.27	0.201	2
		64-QAM		24		21.13	0.195	2
		64-QAM	25	0	2	20.35	0.163	2

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 2 10MHz	18650 1855	QPSK	1	0	0	23.70	0.352	2
		QPSK		24		23.69	0.351	2
		QPSK		49		23.74	0.355	2
		QPSK	50	0	1	22.90	0.292	2
		16-QAM	1	0	1	23.33	0.323	2
		16-QAM		24		23.29	0.320	2
		16-QAM		49		23.34	0.324	2
		16-QAM	50	0	2	21.95	0.235	2
	18900 1880	QPSK	1	0	0	23.87	0.366	2
		QPSK		24		23.81	0.361	2
		QPSK		49		23.69	0.351	2
		QPSK	50	0	1	22.84	0.288	2
		16-QAM	1	0	1	22.77	0.284	2
		16-QAM		24		22.75	0.282	2
		16-QAM		49		22.85	0.289	2
		16-QAM	50	0	2	21.87	0.231	2
	19150 1905	QPSK	1	0	0	23.70	0.352	2
		QPSK		24		23.61	0.344	2
		QPSK		49		23.66	0.348	2
		QPSK	50	0	1	22.78	0.284	2
		16-QAM	1	0	1	22.61	0.274	2
		16-QAM		24		22.45	0.264	2
		16-QAM		49		22.58	0.272	2
		16-QAM	50	0	2	21.81	0.228	2

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 2 10MHz	18650 1855	64-QAM	1	0	1	21.22	0.199	2
		64-QAM		24		21.29	0.202	2
		64-QAM		49		21.28	0.201	2
		64-QAM	50	0	2	20.65	0.174	2
	18900 1880	64-QAM	1	0	1	21.28	0.201	2
		64-QAM		24		21.29	0.202	2
		64-QAM		49		21.14	0.195	2
		64-QAM	50	0	2	20.70	0.176	2
	19150 1905	64-QAM	1	0	1	21.17	0.196	2
		64-QAM		24		21.26	0.200	2
		64-QAM		49		21.13	0.195	2
		64-QAM	50	0	2	20.27	0.160	2

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 2 15MHz	18675 1857.5	QPSK	1	0	0	23.60	0.344	2
		QPSK		37		23.69	0.351	2
		QPSK		74		23.78	0.358	2
		QPSK	75	0	1	22.88	0.291	2
		16-QAM	1	0	1	23.28	0.319	2
		16-QAM		37		23.30	0.321	2
		16-QAM		74		23.44	0.331	2
		16-QAM	75	0	2	21.95	0.235	2
	18900 1880	QPSK	1	0	0	23.74	0.355	2
		QPSK		37		23.71	0.352	2
		QPSK		74		23.75	0.356	2
		QPSK	75	0	1	22.83	0.288	2
		16-QAM	1	0	1	23.10	0.306	2
		16-QAM		37		23.09	0.305	2
		16-QAM		74		23.11	0.307	2
		16-QAM	75	0	2	21.84	0.229	2
	19125 1902.5	QPSK	1	0	0	23.73	0.354	2
		QPSK		37		23.70	0.352	2
		QPSK		74		23.74	0.355	2
		QPSK	75	0	1	22.71	0.280	2
		16-QAM	1	0	1	22.60	0.273	2
		16-QAM		37		22.66	0.277	2
		16-QAM		74		22.68	0.278	2
		16-QAM	75	0	2	21.80	0.227	2

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 2 15MHz	18675 1857.5	64-QAM	1	0	1	21.41	0.207	2
		64-QAM		37		21.34	0.204	2
		64-QAM		74		21.38	0.206	2
		64-QAM	75	0	2	20.65	0.174	2
	18900 1880	64-QAM	1	0	1	21.37	0.206	2
		64-QAM		37		21.28	0.201	2
		64-QAM		74		21.31	0.203	2
		64-QAM	75	0	2	20.49	0.168	2
	19125 1902.5	64-QAM	1	0	1	21.14	0.195	2
		64-QAM		37		21.16	0.196	2
		64-QAM		74		21.29	0.202	2
		64-QAM	75	0	2	20.69	0.176	2

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 2 20MHz	18700 1860	QPSK	1	0	0	23.86	0.365	2
		QPSK		49		23.72	0.353	2
		QPSK		99		23.79	0.359	2
		QPSK	100	0	1	22.90	0.292	2
		16-QAM	1	0	1	23.23	0.316	2
		16-QAM		49		23.25	0.317	2
		16-QAM		99		23.30	0.321	2
		16-QAM	100	0	2	21.92	0.233	2
	18900 1880	QPSK	1	0	0	23.89	0.367	2
		QPSK		49		23.66	0.348	2
		QPSK		99		23.70	0.352	2
		QPSK	100	0	1	22.91	0.293	2
		16-QAM	1	0	1	23.05	0.303	2
		16-QAM		49		23.06	0.303	2
		16-QAM		99		23.10	0.306	2
		16-QAM	100	0	2	21.90	0.232	2
	19100 1900	QPSK	1	0	0	23.82	0.361	2
		QPSK		49		23.80	0.360	2
		QPSK		99		23.79	0.359	2
		QPSK	100	0	1	22.82	0.287	2
		16-QAM	1	0	1	22.88	0.291	2
		16-QAM		49		22.80	0.286	2
		16-QAM		99		22.76	0.283	2
		16-QAM	100	0	2	21.84	0.229	2

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 2 20MHz	18700 1860	64-QAM	1	0	1	21.04	0.191	2
		64-QAM		49		21.32	0.203	2
		64-QAM		99		21.07	0.192	2
		64-QAM	100	0	2	20.60	0.172	2
	18900 1880	64-QAM	1	0	1	21.10	0.193	2
		64-QAM		49		21.13	0.195	2
		64-QAM		99		21.09	0.193	2
		64-QAM	100	0	2	20.58	0.171	2
	19100 1900	64-QAM	1	0	1	21.05	0.191	2
		64-QAM		49		20.72	0.177	2
		64-QAM		99		21.10	0.193	2
		64-QAM	100	0	2	20.16	0.156	2

Product	LV55		
Test Item	RF Output Power		
Test Mode	Mode 2: LTE Band 5		
Date of Test	2020/06/08~2020/06/10	Test Site	SR12-H
Temperature (°C)	24	Humidity (%RH)	60

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) ERP	Limit (W) ERP
Band 5 1.4MHz	20407 824.7	QPSK	1	0	0	24.35	0.118	7
		QPSK		2		24.32	0.117	7
		QPSK		5		24.30	0.116	7
		QPSK	6	0	1	23.42	0.095	7
		16-QAM	1	0	1	23.11	0.089	7
		16-QAM		2		23.10	0.088	7
		16-QAM		5		23.06	0.087	7
		16-QAM	6	0	2	22.41	0.075	7
	20525 836.5	QPSK	1	0	0	24.26	0.115	7
		QPSK		2		24.22	0.114	7
		QPSK		5		24.30	0.116	7
		QPSK	6	0	1	23.38	0.094	7
		16-QAM	1	0	1	22.99	0.086	7
		16-QAM		2		23.01	0.086	7
		16-QAM		5		23.05	0.087	7
		16-QAM	6	0	2	22.32	0.074	7
	20643 848.3	QPSK	1	0	0	24.33	0.117	7
		QPSK		2		24.29	0.116	7
		QPSK		5		24.27	0.116	7
		QPSK	6	0	1	23.35	0.094	7
		16-QAM	1	0	1	23.31	0.093	7
		16-QAM		2		23.20	0.090	7
		16-QAM		5		23.32	0.093	7
		16-QAM	6	0	2	22.25	0.073	7

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) ERP	Limit (W) ERP
Band 5 1.4MHz	20407 824.7	64-QAM	1	0	1	22.03	0.069	7
		64-QAM		2		21.95	0.068	7
		64-QAM		5		21.59	0.062	7
		64-QAM	6	0	2	21.03	0.055	7
	20525 836.5	64-QAM	1	0	1	21.56	0.062	7
		64-QAM		2		21.52	0.061	7
		64-QAM		5		21.50	0.061	7
		64-QAM	6	0	2	21.22	0.057	7
	20643 848.3	64-QAM	1	0	1	21.48	0.061	7
		64-QAM		2		21.40	0.060	7
		64-QAM		5		21.53	0.062	7
		64-QAM	6	0	2	20.76	0.052	7

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) ERP	Limit (W) ERP
Band 5 3MHz	20415 825.5	QPSK	1	0	0	24.38	0.119	7
		QPSK		7		24.35	0.118	7
		QPSK		14		24.26	0.115	7
		QPSK	15	0	1	23.53	0.097	7
		16-QAM	1	0	1	24.16	0.113	7
		16-QAM		7		24.11	0.111	7
		16-QAM		14		23.94	0.107	7
		16-QAM	15	0	2	22.60	0.079	7
	20525 836.5	QPSK	1	0	0	24.49	0.122	7
		QPSK		7		24.45	0.121	7
		QPSK		14		24.43	0.120	7
		QPSK	15	0	1	23.45	0.096	7
		16-QAM	1	0	1	23.49	0.097	7
		16-QAM		7		23.48	0.096	7
		16-QAM		14		23.50	0.097	7
		16-QAM	15	0	2	22.50	0.077	7
	20635 847.5	QPSK	1	0	0	24.55	0.123	7
		QPSK		7		24.46	0.121	7
		QPSK		14		24.48	0.121	7
		QPSK	15	0	1	23.53	0.097	7
		16-QAM	1	0	1	23.51	0.097	7
		16-QAM		7		23.50	0.097	7
		16-QAM		14		23.34	0.093	7
		16-QAM	15	0	2	22.51	0.077	7

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 5 3MHz	20415 825.5	64-QAM	1	0	1	21.84	0.066	7
		64-QAM		7		22.14	0.071	7
		64-QAM		14		22.03	0.069	7
		64-QAM	15	0	2	21.32	0.059	7
	20525 836.5	64-QAM	1	0	1	21.95	0.068	7
		64-QAM		7		21.97	0.068	7
		64-QAM		14		21.85	0.066	7
		64-QAM	15	0	2	21.37	0.059	7
	20635 847.5	64-QAM	1	0	1	21.54	0.062	7
		64-QAM		7		21.43	0.060	7
		64-QAM		14		21.47	0.061	7
		64-QAM	15	0	2	20.85	0.053	7

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) ERP	Limit (W) ERP
Band 5 5MHz	20425 826.5	QPSK	1	0	0	24.50	0.122	7
		QPSK		12		24.61	0.125	7
		QPSK		24		24.50	0.122	7
		QPSK	25	0	1	23.57	0.098	7
		16-QAM	1	0	1	23.62	0.100	7
		16-QAM		12		23.67	0.101	7
		16-QAM		24		23.62	0.100	7
		16-QAM	25	0	2	22.65	0.080	7
	20525 836.5	QPSK	1	0	0	24.58	0.124	7
		QPSK		12		24.57	0.124	7
		QPSK		24		24.54	0.123	7
		QPSK	25	0	1	23.58	0.099	7
		16-QAM	1	0	1	23.66	0.100	7
		16-QAM		12		23.73	0.102	7
		16-QAM		24		23.64	0.100	7
		16-QAM	25	0	2	22.61	0.079	7
	20625 846.5	QPSK	1	0	0	24.56	0.124	7
		QPSK		12		24.55	0.123	7
		QPSK		24		24.49	0.122	7
		QPSK	25	0	1	23.56	0.098	7
		16-QAM	1	0	1	24.00	0.109	7
		16-QAM		12		24.01	0.109	7
		16-QAM		24		23.99	0.108	7
		16-QAM	25	0	2	22.52	0.077	7

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 5 5MHz	20425 826.5	64-QAM	1	0	1	21.92	0.067	7
		64-QAM		12		22.21	0.072	7
		64-QAM		24		22.01	0.069	7
		64-QAM	25	0	2	21.44	0.060	7
	20525 836.5	64-QAM	1	0	1	21.95	0.068	7
				12		22.09	0.070	7
				24		21.85	0.066	7
			25	0	2	21.36	0.059	7
	20625 846.5	64-QAM	1	0	1	21.92	0.067	7
		64-QAM		12		21.53	0.062	7
		64-QAM		24		21.42	0.060	7
		64-QAM	25	0	2	21.23	0.057	7

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) ERP	Limit (W) ERP
Band 5 10MHz	20450 829	QPSK	1	0	0	24.64	0.126	7
		QPSK		24		24.43	0.120	7
		QPSK		49		24.48	0.121	7
		QPSK	50	0	1	23.55	0.098	7
		16-QAM	1	0	1	24.08	0.111	7
		16-QAM		24		24.05	0.110	7
		16-QAM		49		24.03	0.109	7
		16-QAM	50	0	2	22.65	0.080	7
	20525 836.5	QPSK	1	0	0	24.60	0.125	7
				24		24.58	0.124	7
				49		24.53	0.123	7
		16-QAM	50	0	1	23.53	0.097	7
			1	0	1	23.59	0.099	7
				24		23.49	0.097	7
				49		23.42	0.095	7
			50	0	2	22.61	0.079	7
	20600 844	QPSK	1	0	0	24.58	0.124	7
		QPSK		24		24.54	0.123	7
		QPSK		49		24.46	0.121	7
		QPSK	50	0	1	23.53	0.097	7
		16-QAM	1	0	1	23.45	0.096	7
		16-QAM		24		23.41	0.095	7
		16-QAM		49		23.36	0.094	7
		16-QAM	50	0	2	22.54	0.078	7

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 5 10MHz	20450 829	64-QAM	1	0	1	22.03	0.069	7
		64-QAM		24		22.09	0.070	7
		64-QAM		49		22.08	0.070	7
		64-QAM	50	0	2	21.50	0.061	7
	20525 836.5	64-QAM	1	0	1	21.84	0.066	7
		64-QAM		24		21.99	0.068	7
		64-QAM		49		22.00	0.069	7
		64-QAM	50	0	2	21.34	0.059	7
	20600 844	64-QAM	1	0	1	21.76	0.065	7
		64-QAM		24		21.62	0.063	7
		64-QAM		49		21.57	0.062	7
		64-QAM	50	0	2	21.36	0.059	7

Product	LV55		
Test Item	RF Output Power		
Test Mode	Mode 3: LTE Band 13		
Date of Test	2020/06/08~2020/06/10	Test Site	SR12-H
Temperature (°C)	24	Humidity (%RH)	60

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) ERP	Limit (W) ERP
Band 13 5MHz	23205 779.5	QPSK	1	0	0	24.02	0.131	3
		QPSK		12		23.85	0.126	3
		QPSK		24		23.95	0.129	3
		QPSK	25	0	1	23.36	0.113	3
		16-QAM	1	0	1	23.17	0.108	3
		16-QAM		12		23.32	0.112	3
		16-QAM		24		23.30	0.111	3
		16-QAM	25	0	2	22.33	0.089	3
	23230 782	QPSK	1	0	0	24.07	0.133	3
		QPSK		12		24.03	0.132	3
		QPSK		24		24.08	0.133	3
		QPSK	25	0	1	23.30	0.111	3
		16-QAM	1	0	1	23.62	0.120	3
		16-QAM		12		23.69	0.122	3
		16-QAM		24		23.70	0.122	3
		16-QAM	25	0	2	22.31	0.089	3
	23255 784.5	QPSK	1	0	0	24.29	0.140	3
		QPSK		12		24.18	0.136	3
		QPSK		24		24.19	0.136	3
		QPSK	25	0	1	23.31	0.111	3
		16-QAM	1	0	1	23.15	0.107	3
		16-QAM		12		23.35	0.112	3
		16-QAM		24		23.29	0.111	3
		16-QAM	25	0	2	22.37	0.090	3

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) ERP	Limit (W) ERP
Band 13 5MHz	23205 779.5	64-QAM	1	0	1	21.76	0.078	3
		64-QAM		12		22.06	0.084	3
		64-QAM		24		22.08	0.084	3
		64-QAM	25	0	2	21.35	0.071	3
	23230 782	64-QAM	1	0	1	21.75	0.078	3
		64-QAM		12		21.88	0.080	3
		64-QAM		24		21.90	0.081	3
		64-QAM	25	0	2	21.34	0.071	3
	23255 784.5	64-QAM	1	0	1	21.85	0.080	3
		64-QAM		12		22.01	0.083	3
		64-QAM		24		21.88	0.080	3
		64-QAM	25	0	2	21.33	0.071	3

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) ERP	Limit (W) ERP
Band 13 10MHz	23230 782	QPSK	1	0	0	24.25	0.138	3
		QPSK		24		24.05	0.132	3
		QPSK		49		24.06	0.132	3
		QPSK	50	0	1	23.32	0.112	3
		16-QAM	1	0	1	23.99	0.130	3
		16-QAM		24		23.86	0.126	3
		16-QAM		49		23.88	0.127	3
		16-QAM	50	0	2	22.32	0.089	3

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) ERP	Limit (W) ERP
Band 13 10MHz	23230 782	64-QAM	1	0	1	22.15	0.085	3
		64-QAM		24		22.14	0.085	3
		64-QAM		49		22.08	0.084	3
		64-QAM	50	0	2	21.69	0.077	3

Product	LV55		
Test Item	RF Output Power		
Test Mode	Mode 4: LTE Band 66		
Date of Test	2020/06/08~2020/06/10	Test Site	SR12-H
Temperature (°C)	24	Humidity (%RH)	60

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 66 1.4MHz	131979 1710.7	QPSK	1	0	0	23.43	0.469	1
		QPSK		2		23.44	0.470	1
		QPSK		5		23.42	0.468	1
		QPSK	6	0	1	22.52	0.380	1
		16-QAM	1	0	1	22.16	0.350	1
		16-QAM		2		22.15	0.349	1
		16-QAM		5		22.19	0.352	1
		16-QAM	6	0	2	21.54	0.303	1
	132322 1745	QPSK	1	0	0	23.57	0.484	1
		QPSK		2		23.64	0.492	1
		QPSK		5		23.62	0.490	1
		QPSK	6	0	1	22.59	0.386	1
		16-QAM	1	0	1	22.60	0.387	1
		16-QAM		2		22.64	0.391	1
		16-QAM		5		22.67	0.394	1
		16-QAM	6	0	2	21.49	0.300	1
	132665 1779.3	QPSK	1	0	0	23.51	0.478	1
		QPSK		2		23.52	0.479	1
		QPSK		5		23.53	0.480	1
		QPSK	6	0	1	22.51	0.379	1
		16-QAM	1	0	1	22.37	0.367	1
		16-QAM		2		22.38	0.368	1
		16-QAM		5		22.39	0.369	1
		16-QAM	6	0	2	21.58	0.306	1

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 66 1.4MHz	131979 1710.7	64-QAM	1	0	1	21.23	0.282	1
		64-QAM		2		21.24	0.283	1
		64-QAM		5		21.11	0.275	1
		64-QAM	6	0	2	20.49	0.238	1
	132322 1745	64-QAM	1	0	1	21.27	0.285	1
		64-QAM		2		21.18	0.279	1
		64-QAM		5		21.41	0.294	1
		64-QAM	6	0	2	20.53	0.240	1
	132665 1779.3	64-QAM	1	0	1	21.33	0.289	1
		64-QAM		2		21.47	0.299	1
		64-QAM		5		21.46	0.298	1
		64-QAM	6	0	2	20.79	0.255	1

5	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 66 3MHz	131987 1711.5	QPSK	1	0	0	23.52	0.479	1
		QPSK		7		23.48	0.474	1
		QPSK		14		23.49	0.475	1
		QPSK	15	0	1	22.71	0.397	1
		16-QAM	1	0	1	23.19	0.444	1
		16-QAM		7		23.15	0.440	1
		16-QAM		14		23.14	0.439	1
		16-QAM	15	0	2	21.76	0.319	1
	132322 1745	QPSK	1	0	0	23.67	0.495	1
		QPSK		7		23.70	0.499	1
		QPSK		14		23.75	0.505	1
		QPSK	15	0	1	22.74	0.400	1
		16-QAM	1	0	1	22.69	0.395	1
		16-QAM		7		22.70	0.396	1
		16-QAM		14		22.71	0.397	1
		16-QAM	15	0	2	21.71	0.316	1
	132657 1778.5	QPSK	1	0	0	23.62	0.490	1
		QPSK		7		23.66	0.494	1
		QPSK		14		23.60	0.488	1
		QPSK	15	0	1	22.65	0.392	1
		16-QAM	1	0	1	22.50	0.378	1
		16-QAM		7		22.51	0.379	1
		16-QAM		14		22.46	0.375	1
		16-QAM	15	0	2	21.65	0.311	1

5	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 66 3MHz	131987 1711.5	64-QAM	1	0	1	21.27	0.285	1
		64-QAM		7		21.20	0.281	1
		64-QAM		14		21.17	0.279	1
		64-QAM	15	0	2	20.73	0.252	1
	132322 1745	64-QAM	1	0	1	21.24	0.283	1
		64-QAM		7		21.23	0.282	1
		64-QAM		14		21.18	0.279	1
		64-QAM	15	0	2	20.45	0.236	1
	132657 1778.5	64-QAM	1	0	1	21.40	0.294	1
		64-QAM		7		21.36	0.291	1
		64-QAM		14		21.35	0.290	1
		64-QAM	15	0	2	21.08	0.273	1

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 66 5MHz	131997 1712.5	QPSK	1	0	0	23.61	0.489	1
		QPSK		12		23.62	0.490	1
		QPSK		24		23.56	0.483	1
		QPSK	25	0	1	22.62	0.389	1
		16-QAM	1	0	1	22.59	0.386	1
		16-QAM		12		22.58	0.385	1
		16-QAM		24		22.60	0.387	1
		16-QAM	25	0	2	21.67	0.313	1
	132322 1745	QPSK	1	0	0	23.55	0.482	1
		QPSK		12		23.66	0.494	1
		QPSK		24		23.62	0.490	1
		QPSK	25	0	1	22.68	0.394	1
		16-QAM	1	0	1	22.67	0.394	1
		16-QAM		12		22.77	0.403	1
		16-QAM		24		22.81	0.406	1
		16-QAM	25	0	2	21.73	0.317	1
	132647 1777.5	QPSK	1	0	0	23.57	0.484	1
		QPSK		12		23.56	0.483	1
		QPSK		24		23.55	0.482	1
		QPSK	25	0	1	22.65	0.392	1
		16-QAM	1	0	1	23.02	0.427	1
		16-QAM		12		23.01	0.426	1
		16-QAM		24		22.99	0.424	1
		16-QAM	25	0	2	21.63	0.310	1

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 66 5MHz	131997 1712.5	64-QAM	1	0	1	21.06	0.272	1
		64-QAM		12		21.37	0.292	1
		64-QAM		24		21.34	0.290	1
		64-QAM	25	0	2	20.74	0.252	1
	132322 1745	64-QAM	1	0	1	21.13	0.276	1
		64-QAM		12		21.33	0.289	1
		64-QAM		24		21.16	0.278	1
		64-QAM	25	0	2	20.55	0.242	1
	132647 1777.5	64-QAM	1	0	1	21.24	0.283	1
		64-QAM		12		21.39	0.293	1
		64-QAM		24		21.25	0.284	1
		64-QAM	25	0	2	21.10	0.274	1

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 66 10MHz	132022 1715	QPSK	1	0	0	23.48	0.474	1
		QPSK		24		23.49	0.475	1
		QPSK		49		23.51	0.478	1
		QPSK	50	0	1	22.66	0.393	1
		16-QAM	1	0	1	23.18	0.443	1
		16-QAM		24		23.11	0.436	1
		16-QAM		49		23.08	0.433	1
		16-QAM	50	0	2	21.69	0.314	1
	132322 1745	QPSK	1	0	0	23.51	0.478	1
		QPSK		24		23.66	0.494	1
		QPSK		49		23.40	0.466	1
		QPSK	50	0	1	22.69	0.395	1
		16-QAM	1	0	1	22.41	0.371	1
		16-QAM		24		22.64	0.391	1
		16-QAM		49		22.68	0.394	1
		16-QAM	50	0	2	21.75	0.318	1
	132622 1775	QPSK	1	0	0	23.62	0.490	1
		QPSK		24		23.61	0.489	1
		QPSK		49		23.58	0.485	1
		QPSK	50	0	1	22.57	0.385	1
		16-QAM	1	0	1	22.53	0.381	1
		16-QAM		24		22.52	0.380	1
		16-QAM		49		22.52	0.380	1
		16-QAM	50	0	2	21.59	0.307	1

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 66 10MHz	132022 1715	64-QAM	1	0	1	21.19	0.280	1
		64-QAM		24		21.41	0.294	1
		64-QAM		49		21.31	0.288	1
		64-QAM	50	0	2	21.05	0.271	1
	132322 1745	64-QAM	1	0	1	20.82	0.257	1
				24		21.24	0.283	1
				49		21.29	0.286	1
			50	0	2	20.56	0.242	1
	132622 1775	64-QAM	1	0	1	21.17	0.279	1
		64-QAM		24		21.27	0.285	1
		64-QAM		49		21.55	0.304	1
		64-QAM	50	0	2	21.04	0.270	1

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 66 15MHz	132047 1717.5	QPSK	1	0	0	23.46	0.472	1
		QPSK		37		23.45	0.471	1
		QPSK		74		23.53	0.480	1
		QPSK	75	0	1	22.66	0.393	1
		16-QAM	1	0	1	23.14	0.439	1
		16-QAM		37		23.16	0.441	1
		16-QAM		74		23.21	0.446	1
		16-QAM	75	0	2	21.74	0.318	1
	132322 1745	QPSK	1	0	0	23.45	0.471	1
		QPSK		37		23.49	0.475	1
		QPSK		74		23.62	0.490	1
		QPSK	75	0	1	22.65	0.392	1
		16-QAM	1	0	1	22.60	0.387	1
		16-QAM		37		22.59	0.386	1
		16-QAM		74		23.04	0.429	1
		16-QAM	75	0	2	21.67	0.313	1
	132597 1772.5	QPSK	1	0	0	23.65	0.493	1
		QPSK		37		23.64	0.492	1
		QPSK		74		23.67	0.495	1
		QPSK	75	0	1	22.55	0.383	1
		16-QAM	1	0	1	22.54	0.382	1
		16-QAM		37		22.52	0.380	1
		16-QAM		74		22.60	0.387	1
		16-QAM	75	0	2	21.64	0.310	1

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 66 15MHz	132047 1717.5	64-QAM	1	0	1	21.27	0.285	1
		64-QAM		37		21.37	0.292	1
		64-QAM		74		21.45	0.297	1
		64-QAM	75	0	2	20.94	0.264	1
	132322 1745	64-QAM	1	0	1	21.18	0.279	1
		64-QAM		37		21.26	0.284	1
		64-QAM		74		21.81	0.323	1
		64-QAM	75	0	2	20.62	0.245	1
	132597 1772.5	64-QAM	1	0	1	21.44	0.296	1
		64-QAM		37		21.26	0.284	1
		64-QAM		74		21.35	0.290	1
		64-QAM	75	0	2	21.10	0.274	1

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 66 20MHz	132072 1720	QPSK	1	0	0	23.65	0.493	1
		QPSK		49		23.52	0.479	1
		QPSK		99		23.64	0.492	1
		QPSK	100	0	1	22.71	0.397	1
		16-QAM	1	0	1	23.13	0.438	1
		16-QAM		49		23.12	0.437	1
		16-QAM		99		23.16	0.441	1
		16-QAM	100	0	2	21.72	0.316	1
	132322 1745	QPSK	1	0	0	23.76	0.506	1
		QPSK		49		23.38	0.463	1
		QPSK		99		23.67	0.495	1
		QPSK	100	0	1	22.75	0.401	1
		16-QAM	1	0	1	22.47	0.376	1
		16-QAM		49		22.45	0.374	1
		16-QAM		99		23.08	0.433	1
		16-QAM	100	0	2	21.73	0.317	1
	132572 1770	QPSK	1	0	0	23.69	0.498	1
		QPSK		49		23.66	0.494	1
		QPSK		99		23.67	0.495	1
		QPSK	100	0	1	22.63	0.390	1
		16-QAM	1	0	1	22.68	0.394	1
		16-QAM		49		22.65	0.392	1
		16-QAM		99		22.64	0.391	1
		16-QAM	100	0	2	21.62	0.309	1

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 66 20MHz	132072 1720	64-QAM	1	0	1	21.08	0.273	1
		64-QAM		49		21.39	0.293	1
		64-QAM		99		21.27	0.285	1
		64-QAM	100	0	2	21.03	0.270	1
	132322 1745	64-QAM	1	0	1	21.01	0.269	1
		64-QAM		49		21.28	0.286	1
		64-QAM		99		21.66	0.312	1
		64-QAM	100	0	2	20.60	0.244	1
	132572 1770	64-QAM	1	0	1	21.47	0.299	1
		64-QAM		49		21.40	0.294	1
		64-QAM		99		21.46	0.298	1
		64-QAM	100	0	2	21.09	0.274	1

Product	LV55				
Test Item	RF Output Power				
Test Mode	Mode 5: LTE CA_2A-5A				
Date of Test	2020/07/16		Test Site	SR12-H	
Temperature (°C)	22		Humidity (%RH)	64	

CA_2A+5A Maximum Conducted Output Power

PCC UL CA Power (dBm)									SCC UL CA Power (dBm)								
LTE Band	BW (MHz)	Channel	Frquency (MHz)	RB No.	RB offset	QPSK	16QAM	64QAM	LTE Band	BW (MHz)	Channel	Frquency (MHz)	RB No.	RB offset	QPSK	16QAM	64QAM
2	5	18625	1852.5	1	0	20.05	19.86	19.77	5	5	20625	846.5	1	24	22.76	22.55	22.37
				1	24	20.13	19.92	19.72					1	0	22.95	22.67	22.41
				25	0	20.14	19.90	19.69					25	0	22.79	22.60	22.23
2	10	18650	1855	1	0	19.89	19.81	19.66	5	10	20600	844	1	49	22.69	22.41	22.27
				1	49	20.01	19.95	19.64					1	0	22.73	22.45	22.18
				50	0	19.98	19.86	19.70					50	0	22.81	22.77	22.38
2	15	18675	1857.5	1	0	20.03	19.84	19.59	5	5	20625	846.5	1	24	22.61	22.37	22.21
				1	74	20.16	19.97	19.91					1	0	22.85	22.54	22.42
				75	0	20.09	20.01	19.68					25	0	22.78	22.51	22.35
2	20	18700	1860	1	0	20.47	20.21	19.58	5	10	20600	844	1	49	22.75	22.48	22.11
				1	99	20.55	20.19	19.75					1	0	22.50	22.41	22.31
				100	0	20.21	19.99	19.69					50	0	22.92	22.75	22.27

Product	LV55				
Test Item	RF Output Power				
Test Mode	Mode 6: LTE CA_2A-13A				
Date of Test	2020/07/16		Test Site	SR12-H	
Temperature (°C)	22		Humidity (%RH)	64	

CA_2A+13A Maximum Conducted Output Power

PCC UL CA Power (dBm)									SCC UL CA Power (dBm)								
LTE Band	BW (MHz)	Channel	Frquency (MHz)	RB No.	RB offset	QPSK	16QAM	64QAM	LTE Band	BW (MHz)	Channel	Frquency (MHz)	RB No.	RB offset	QPSK	16QAM	64QAM
2	5	18625	1852.5	1	0	20.18	19.92	19.81	13	5	23255	784.5	1	24	23.25	22.76	22.65
				1	24	20.11	19.85	19.73					1	0	23.33	22.87	22.69
				25	0	20.05	19.89	19.75					25	0	23.35	22.79	22.75
2	10	18650	1855	1	0	19.92	19.87	19.72	13	10	23230	782	1	49	23.23	22.91	22.71
				1	49	19.93	19.98	19.63					1	0	23.26	22.72	22.58
				50	0	20.03	19.99	19.77					50	0	23.31	22.97	22.89
2	15	18675	1857.5	1	0	20.09	19.91	19.58	13	5	23255	784.5	1	24	23.21	22.84	22.76
				1	74	20.19	19.83	19.84					1	0	23.45	22.91	22.84
				75	0	20.12	20.07	19.89					25	0	23.38	22.98	22.85
2	20	18700	1860	1	0	20.36	20.26	19.80	13	10	23230	782	1	49	23.24	22.82	22.74
				1	99	20.41	20.29	19.78					1	0	23.26	22.90	22.66
				100	0	20.09	19.92	19.66					50	0	23.33	22.88	22.68

Product	LV55				
Test Item	RF Output Power				
Test Mode	Mode 7: LTE CA_2A-66A				
Date of Test	2020/07/16		Test Site	SR12-H	
Temperature (°C)	22		Humidity (%RH)	64	

CA_2A+66A Maximum Conducted Output Power

PCC UL CA Power (dBm)									SCC UL CA Power (dBm)								
LTE Band	BW (MHz)	Channel	Frquency (MHz)	RB No.	RB offset	QPSK	16QAM	64QAM	LTE Band	BW (MHz)	Channel	Frquency (MHz)	RB No.	RB offset	QPSK	16QAM	64QAM
2	5	18625	1852.5	1	0	20.11	19.95	19.81	66	5	132647	1777.5	1	24	21.76	21.52	21.35
				1	24	20.19	19.91	19.75					1	0	21.85	21.45	21.26
				25	0	20.15	19.88	19.83					25	0	21.79	21.60	21.38
2	10	18650	1855	1	0	19.97	19.92	19.73	66	10	132622	1775	1	49	21.93	21.54	21.55
				1	49	19.99	19.96	19.75					1	0	21.96	21.62	21.29
				50	0	20.08	19.93	19.88					50	0	21.78	21.43	21.46
2	15	18675	1857.5	1	0	20.14	19.98	19.83	66	15	132597	1772.5	1	74	21.86	21.58	21.31
				1	74	20.22	19.85	19.87					1	0	21.95	21.66	21.59
				75	0	20.21	19.93	19.71					75	0	21.89	21.48	21.37
2	20	18700	1860	1	0	20.29	20.13	19.71	66	20	132572	1770	1	99	21.81	21.51	21.42
				1	99	20.25	20.05	19.80					1	0	21.93	21.55	21.46
				100	0	20.11	19.91	19.69					100	0	21.90	21.69	21.58

Product	LV55				
Test Item	RF Output Power				
Test Mode	Mode 8: LTE CA_5A-66A				
Date of Test	2020/07/16		Test Site	SR12-H	
Temperature (°C)	22		Humidity (%RH)	64	

CA_5A+66A Maximum Conducted Output Power

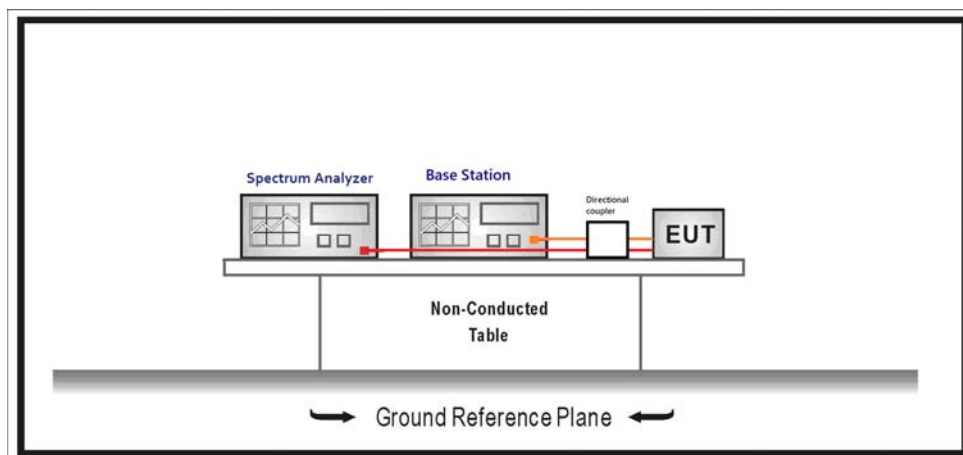
PCC UL CA Power (dBm)									SCC UL CA Power (dBm)								
LTE Band	BW (MHz)	Channel	Frquency (MHz)	RB No.	RB offset	QPSK	16QAM	64QAM	LTE Band	BW (MHz)	Channel	Frquency (MHz)	RB No.	RB offset	QPSK	16QAM	64QAM
5	5	20625	846.5	1	0	21.38	21.32	21.22	66	5	131997	1712.5	1	24	21.82	21.55	21.36
				1	24	21.46	21.35	21.26					1	0	21.86	21.58	21.43
				25	0	21.44	21.26	21.29					25	0	21.93	21.62	21.45
5	10	20600	844	1	0	21.52	21.39	21.31	66	10	132022	1715	1	49	21.81	21.45	21.39
				1	49	21.41	21.21	21.25					1	0	21.89	21.51	21.50
				50	0	21.47	21.26	21.21					50	0	21.98	21.52	21.31
5	5	20625	846.5	1	0	21.32	21.18	21.23	66	15	132047	1717.5	1	74	21.83	21.68	21.47
				1	24	21.35	21.22	21.17					1	0	21.91	21.60	21.41
				25	0	21.41	21.31	21.24					75	0	21.90	21.49	21.34
5	10	20600	844	1	0	21.51	21.36	21.30	66	20	132072	1720	1	99	21.78	21.52	21.48
				1	49	21.43	21.24	21.23					1	0	21.97	21.61	21.33
				50	0	21.55	21.34	21.32					100	0	21.88	21.58	21.40

Product	LV55				
Test Item	RF Output Power				
Test Mode	Mode 9: LTE CA_13A-66A				
Date of Test	2020/07/16		Test Site	SR12-H	
Temperature (°C)	22		Humidity (%RH)	64	

CA_13A+66A Maximum Conducted Output Power																	
PCC UL CA Power (dBm)									SCC UL CA Power (dBm)								
LTE Band	BW (MHz)	Channel	Frquency (MHz)	RB No.	RB offset	QPSK	16QAM	64QAM	LTE Band	BW (MHz)	Channel	Frquency (MHz)	RB No.	RB offset	QPSK	16QAM	64QAM
13	5	23255	784.5	1	0	21.53	21.43	21.32	66	5	131997	1712.5	1	24	21.84	21.57	21.38
				1	24	21.62	21.48	21.36					1	0	21.91	21.68	21.44
				25	0	21.56	21.45	21.29					25	0	21.95	21.52	21.45
13	10	23230	782	1	0	21.47	21.42	21.34	66	10	132022	1715	1	49	21.79	21.49	21.47
				1	49	21.55	21.34	21.27					1	0	21.87	21.66	21.35
				50	0	21.42	21.30	21.27					50	0	21.93	21.56	21.52
13	5	23255	784.5	1	0	21.60	21.51	21.42	66	15	132047	1717.5	1	74	21.74	21.53	21.49
				1	24	21.52	21.43	21.33					1	0	21.99	21.64	21.54
				25	0	21.58	21.39	21.38					75	0	21.78	22.56	21.33
13	10	23230	782	1	0	21.44	21.46	21.24	66	20	132072	1720	1	99	21.86	21.47	21.41
				1	49	21.59	21.38	21.31					1	0	21.90	21.43	21.29
				50	0	21.51	21.40	21.36					100	0	21.89	21.62	21.50

4. Occupied Bandwidth

4.1. Test Setup



4.2. Test Procedure

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The 26 dB bandwidth and 99% occupied bandwidth of the low & middle & high channel for the highest RF powers were measured.

4.3. Test Method

KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause 4.2 & 4.3
ANSI C63.26-2015 Sub-clause 5.4.3 & 5.4.4

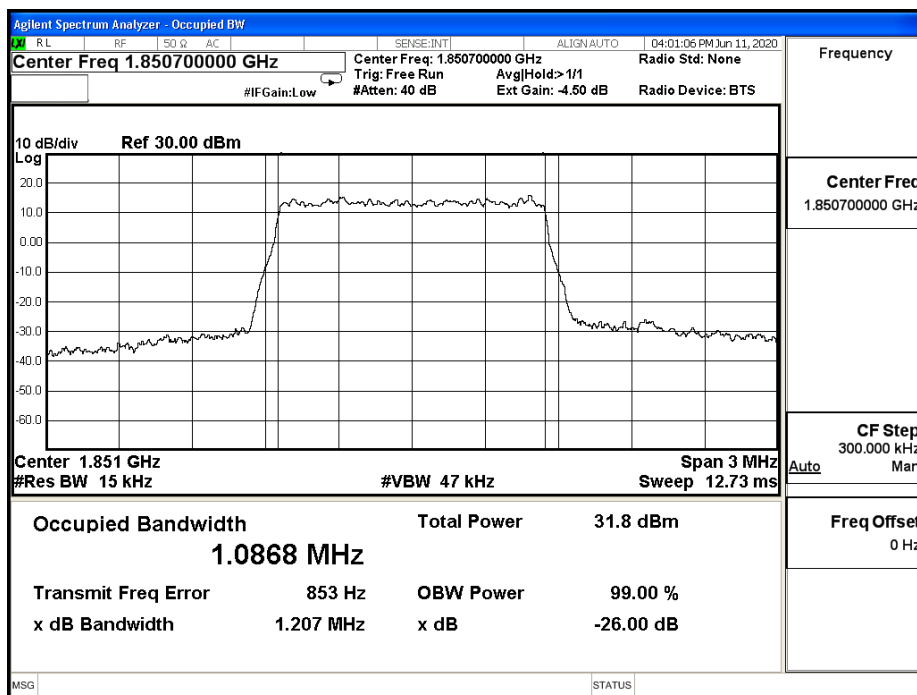
4.4. Test Result

Product	LV55		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: LTE Band 2		
Date of Test	2020/06/11~2020/06/18	Test Site	SR12-H
Temperature (°C)	26	Humidity (%RH)	57

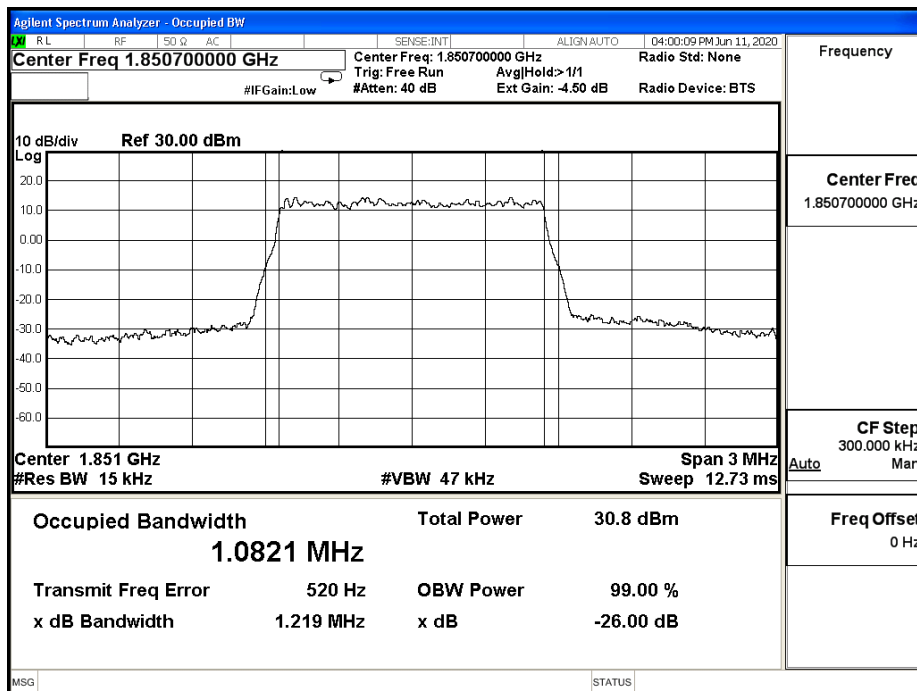
LTE Band2_Full RB					
Bandwidth (MHz)	Modulation	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
			26dB BW	99% BW	
1.4M	QPSK	1850.7	1.207	1.086	N/A
		1880	1.216	1.079	N/A
		1909.3	1.214	1.078	N/A
	16-QAM	1850.7	1.219	1.082	N/A
		1880	1.225	1.081	N/A
		1909.3	1.203	1.077	N/A
	64-QAM	1850.7	1.212	1.079	N/A
		1880	1.206	1.079	N/A
		1909.3	1.210	1.079	N/A
3M	QPSK	1851.5	2.938	2.688	N/A
		1880	2.954	2.695	N/A
		1908.5	2.953	2.689	N/A
	16-QAM	1851.5	2.955	2.684	N/A
		1880	2.944	2.687	N/A
		1908.5	2.952	2.685	N/A
	64-QAM	1851.5	2.931	2.687	N/A
		1880	2.919	2.686	N/A
		1908.5	2.924	2.683	N/A
5M	QPSK	1852.5	4.891	4.483	N/A
		1880	4.882	4.485	N/A
		1907.5	4.891	4.468	N/A
	16-QAM	1852.5	4.832	4.473	N/A
		1880	4.903	4.485	N/A
		1907.5	4.917	4.477	N/A
	64-QAM	1852.5	4.907	4.484	N/A
		1880	4.902	4.484	N/A
		1907.5	4.898	4.481	N/A

LTE Band2_Full RB					
Bandwidth (MHz)	Modulation	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
			26dB BW	99% BW	
10M	QPSK	1855	9.681	8.939	N/A
		1880	9.689	8.944	N/A
		1905	9.644	8.933	N/A
	16-QAM	1855	9.618	8.931	N/A
		1880	9.591	8.942	N/A
		1905	9.618	8.943	N/A
	64-QAM	1855	9.632	8.928	N/A
		1880	9.625	8.929	N/A
		1905	9.616	8.927	N/A
15M	QPSK	1857.5	14.560	13.437	N/A
		1880	14.450	13.405	N/A
		1902.5	14.530	13.432	N/A
	16-QAM	1857.5	14.460	13.417	N/A
		1880	14.460	13.416	N/A
		1902.5	14.410	13.423	N/A
	64-QAM	#REF!	14.580	13.407	N/A
		1880	14.570	13.412	N/A
		1902.5	14.540	13.403	N/A
20M	QPSK	1860	19.130	17.882	N/A
		1880	19.070	17.854	N/A
		1900	19.390	17.913	N/A
	16-QAM	1860	19.220	17.883	N/A
		1880	19.330	17.882	N/A
		1900	19.290	17.876	N/A
	64-QAM	1860	19.310	17.865	N/A
		1880	19.200	17.858	N/A
		1900	19.230	17.877	N/A

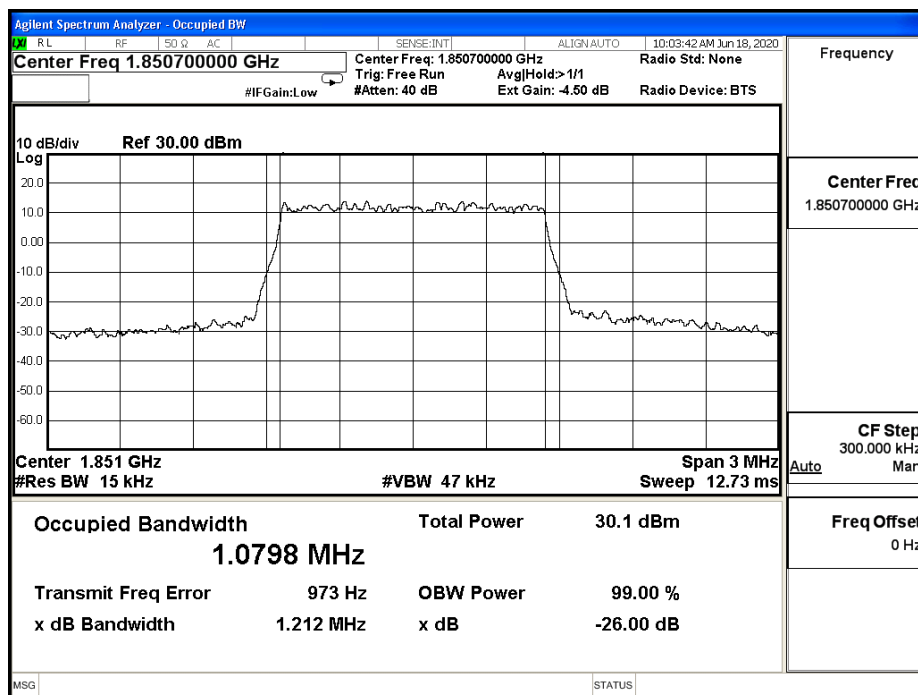
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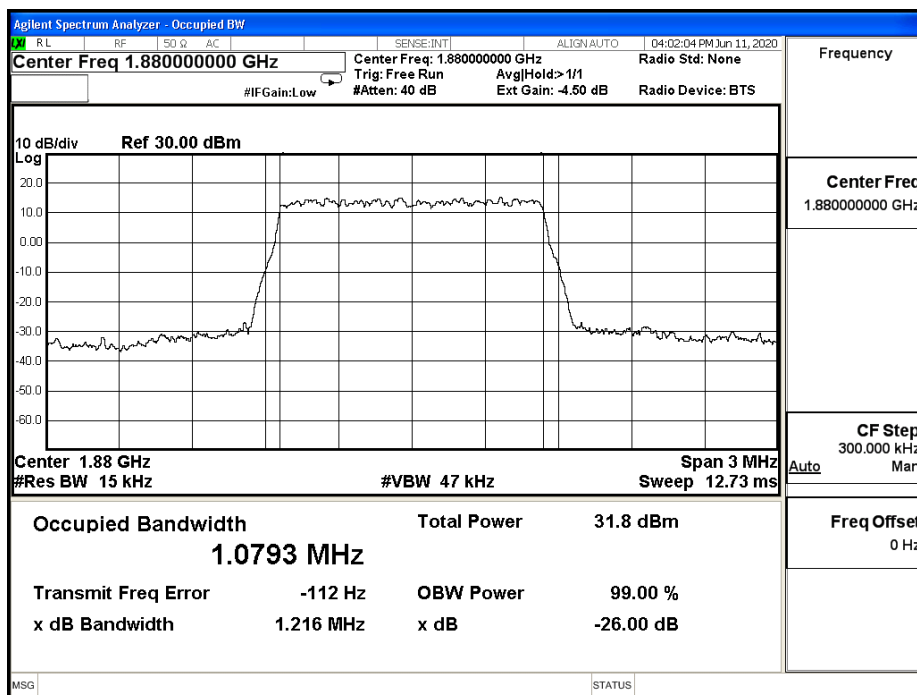
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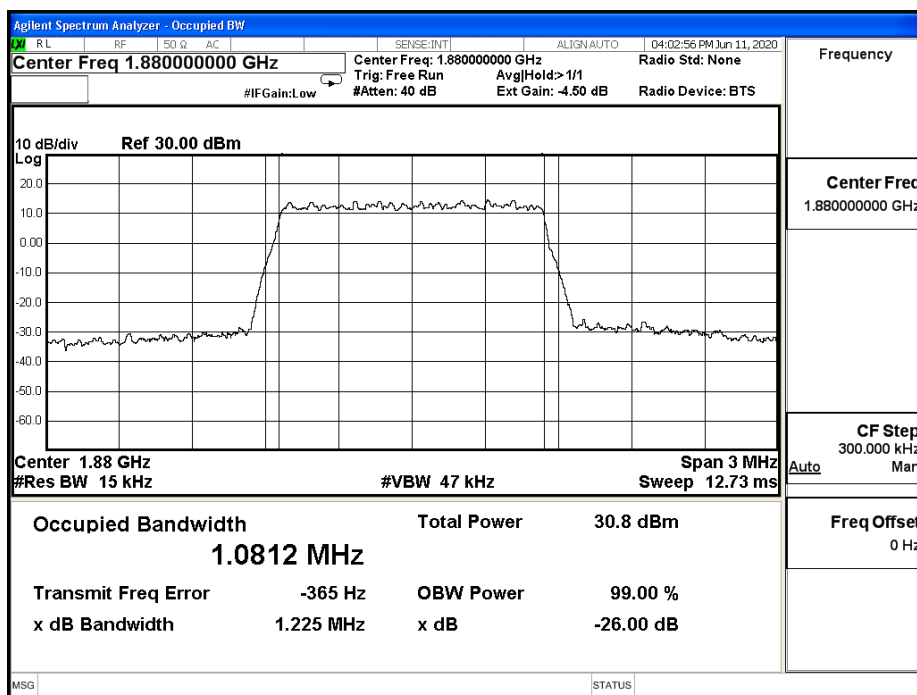
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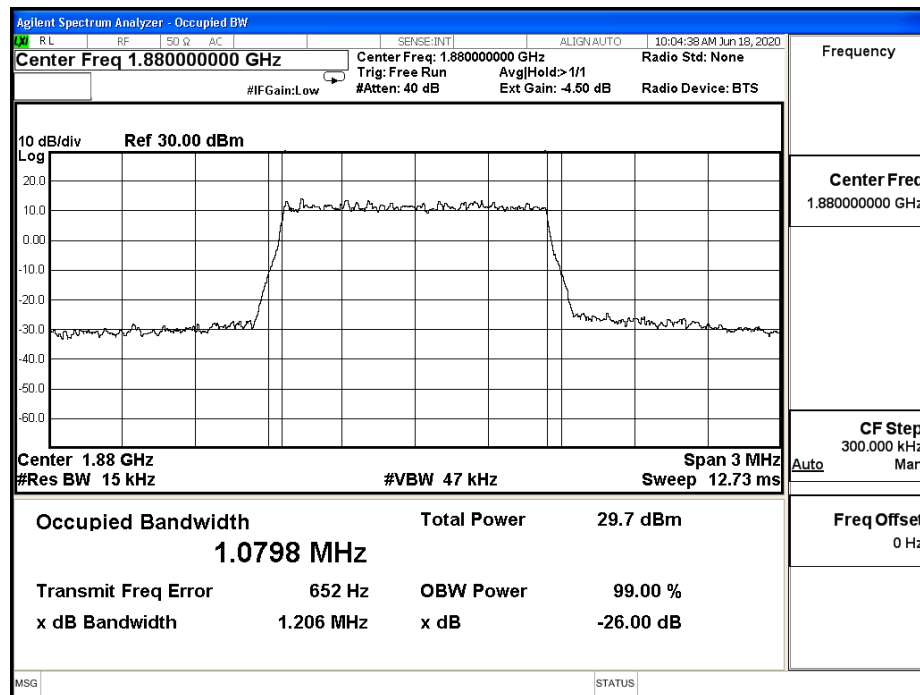
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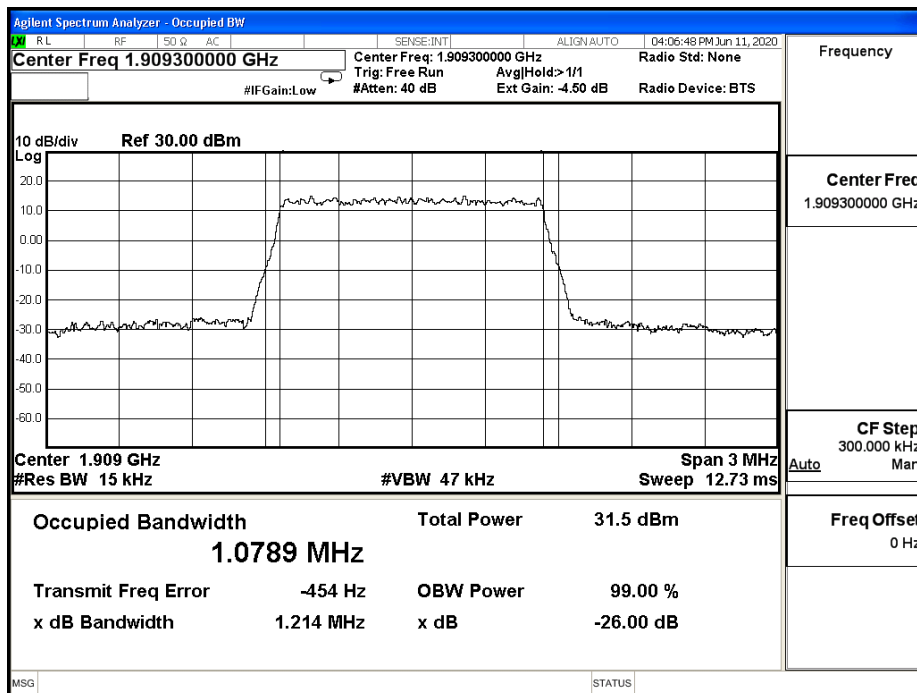
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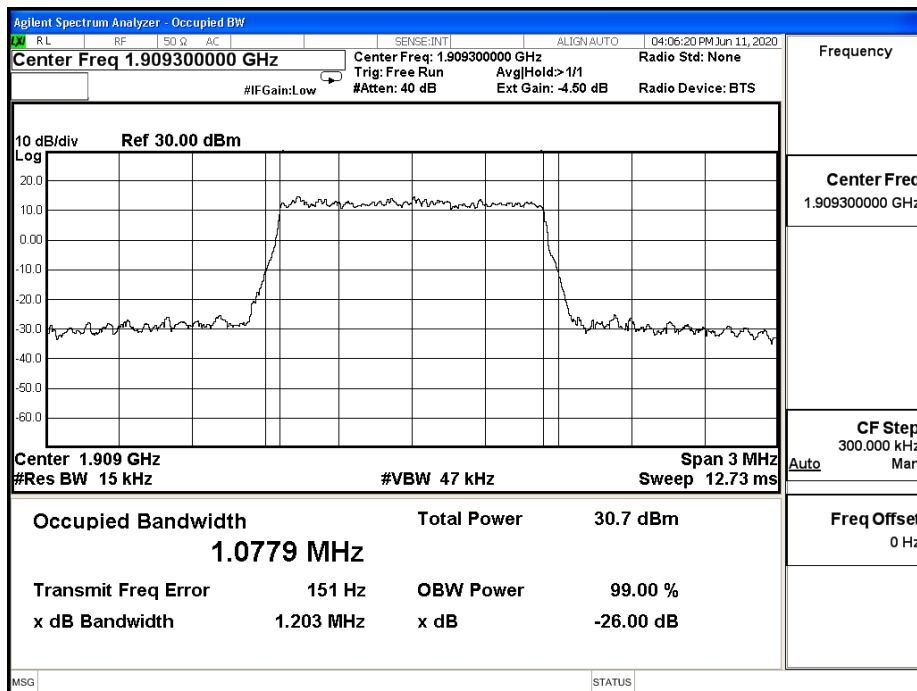
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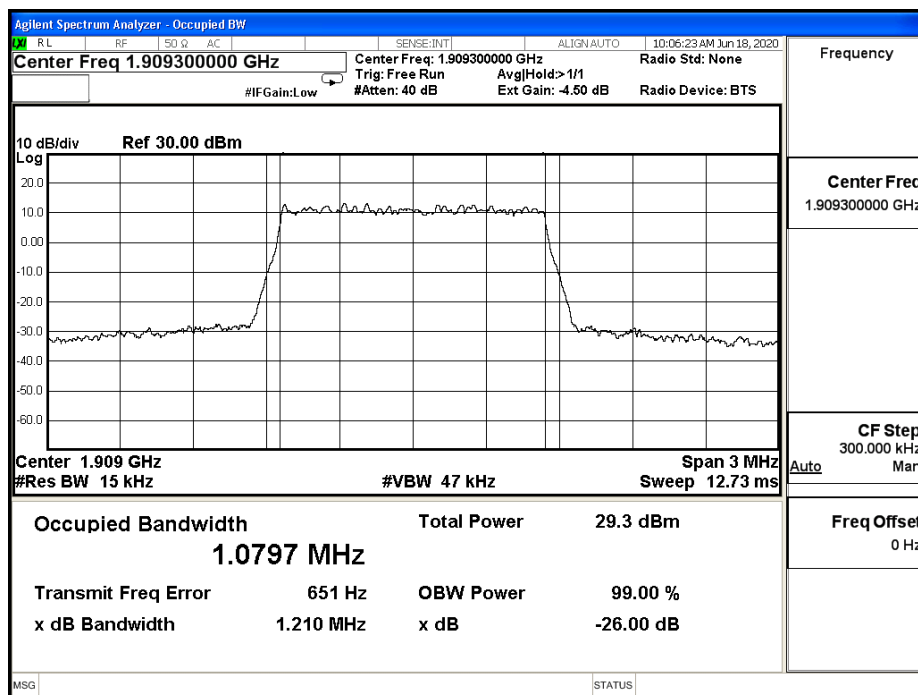
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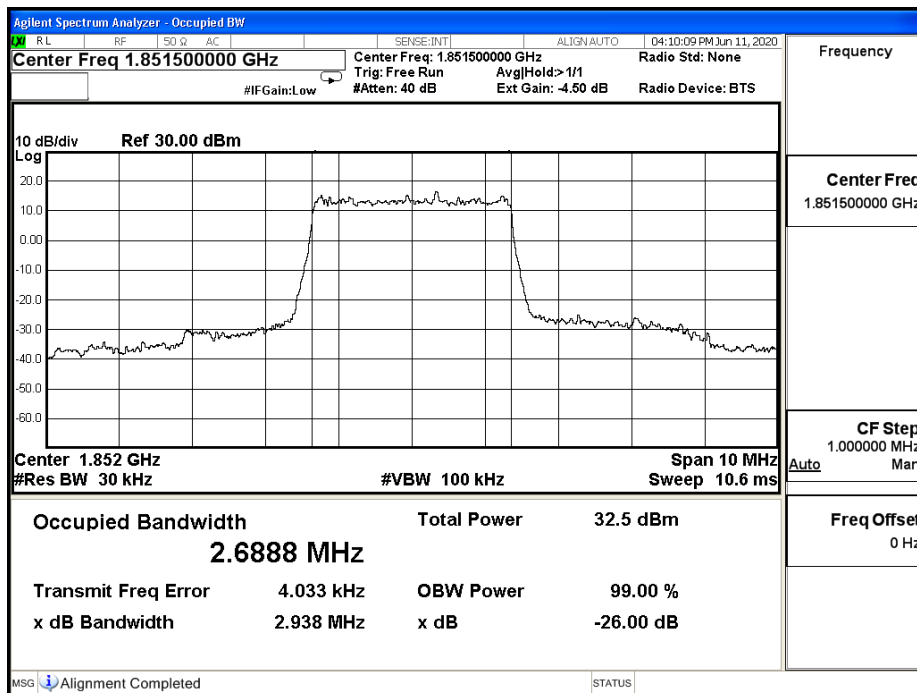
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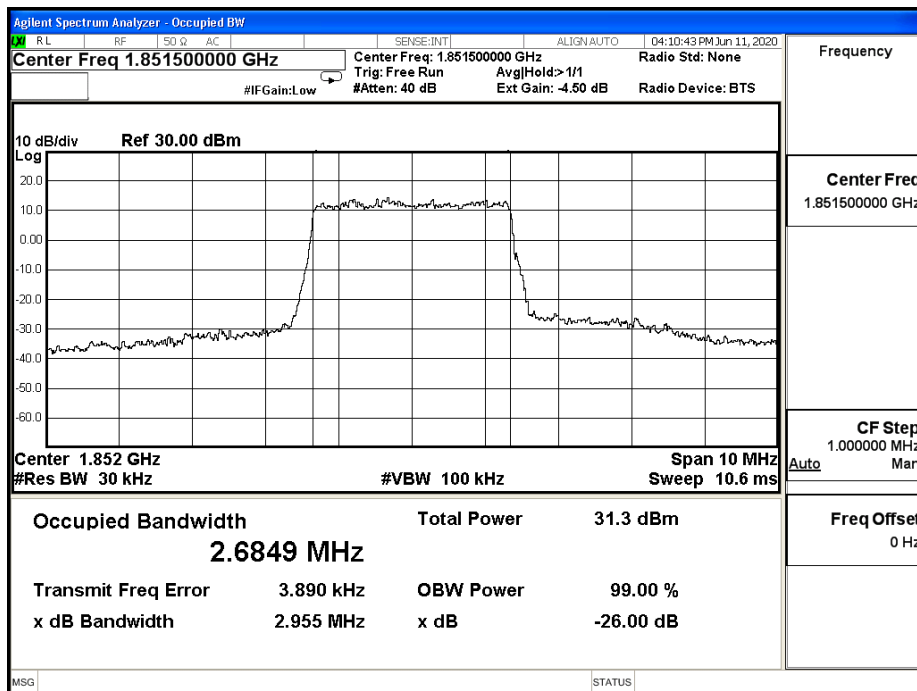
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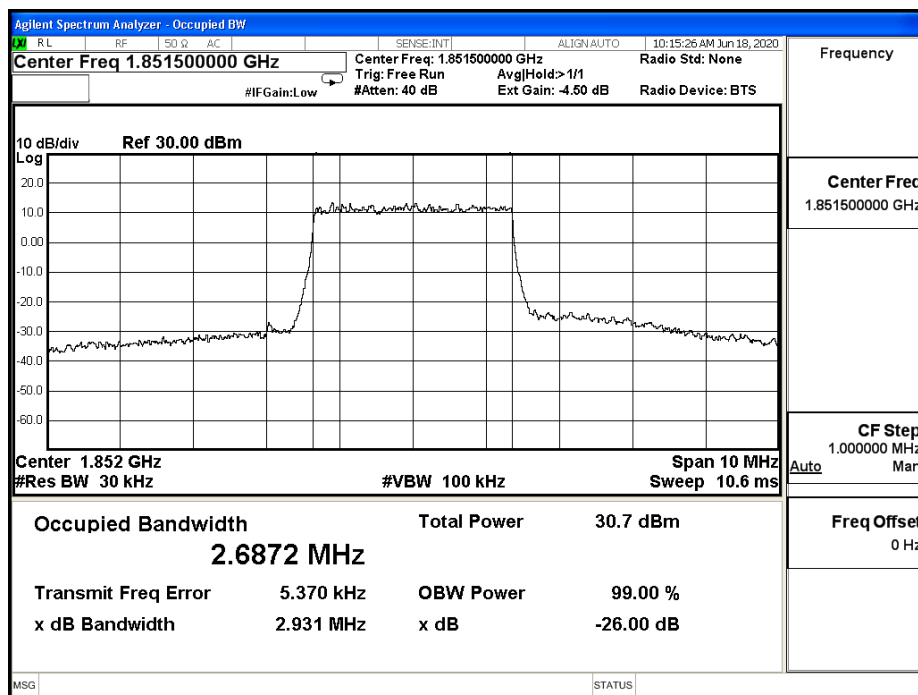
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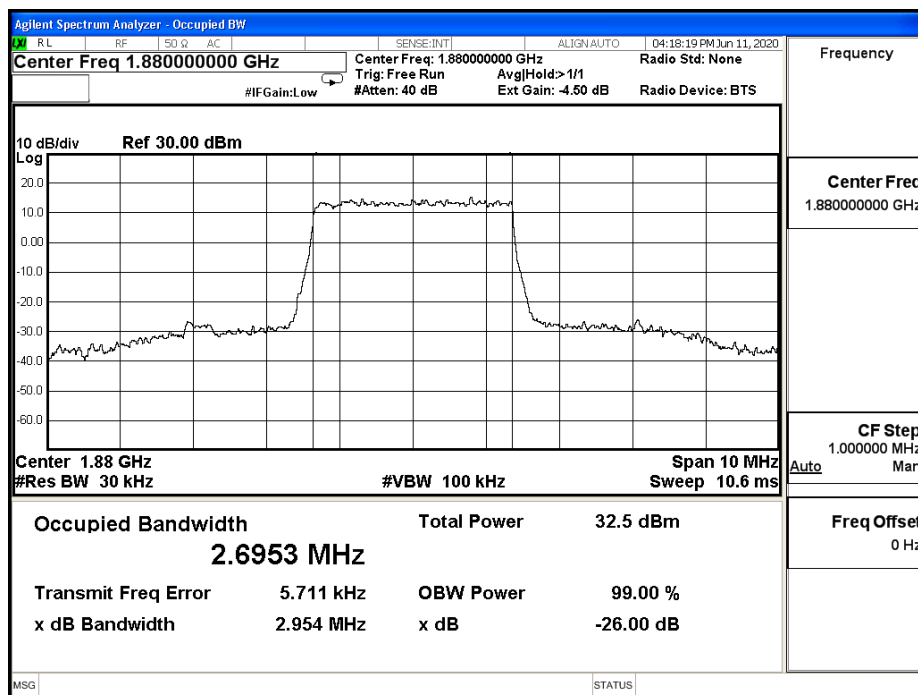
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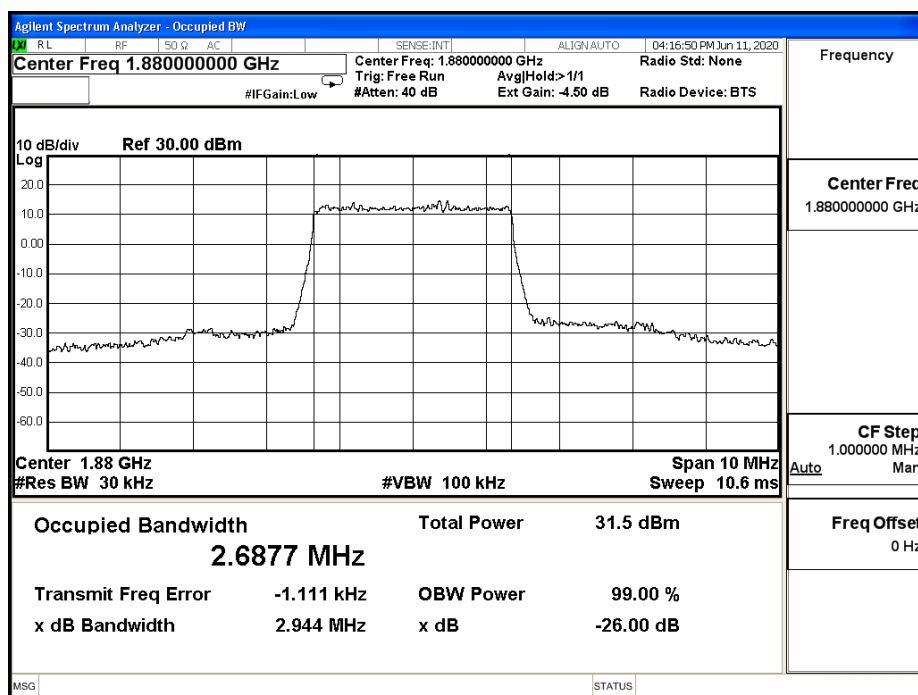
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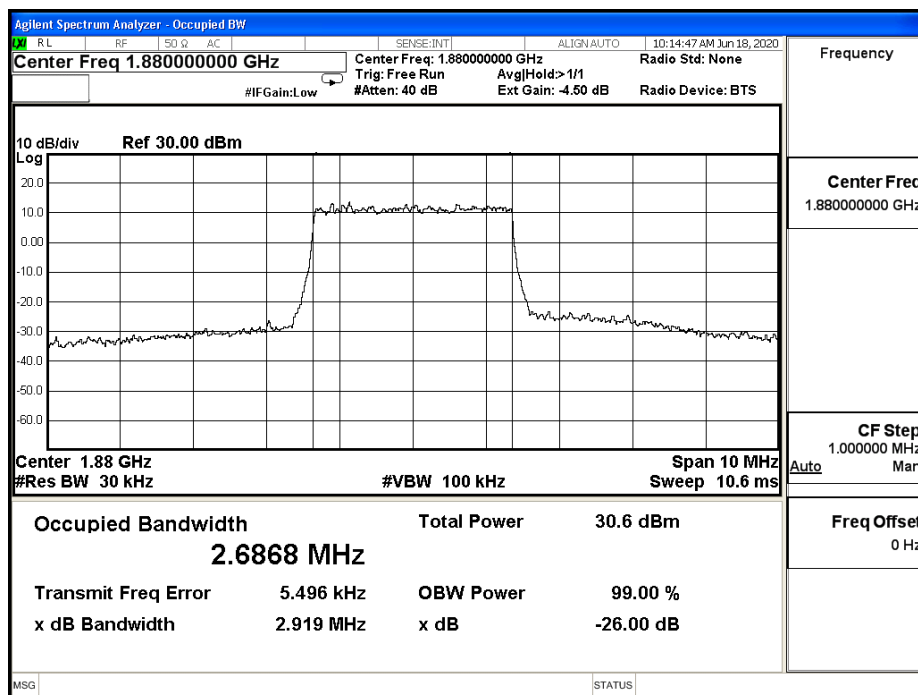
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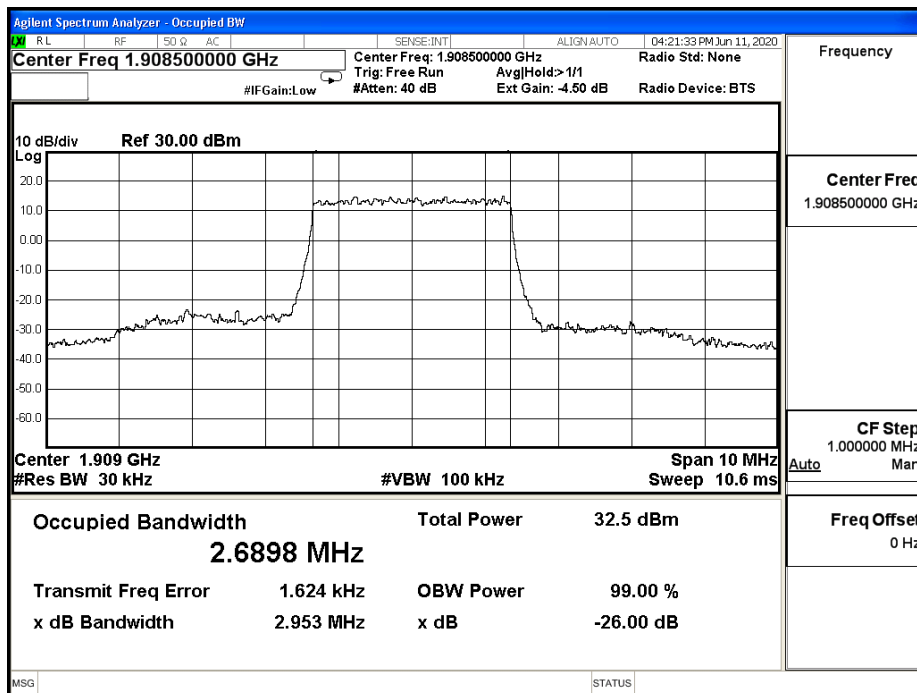
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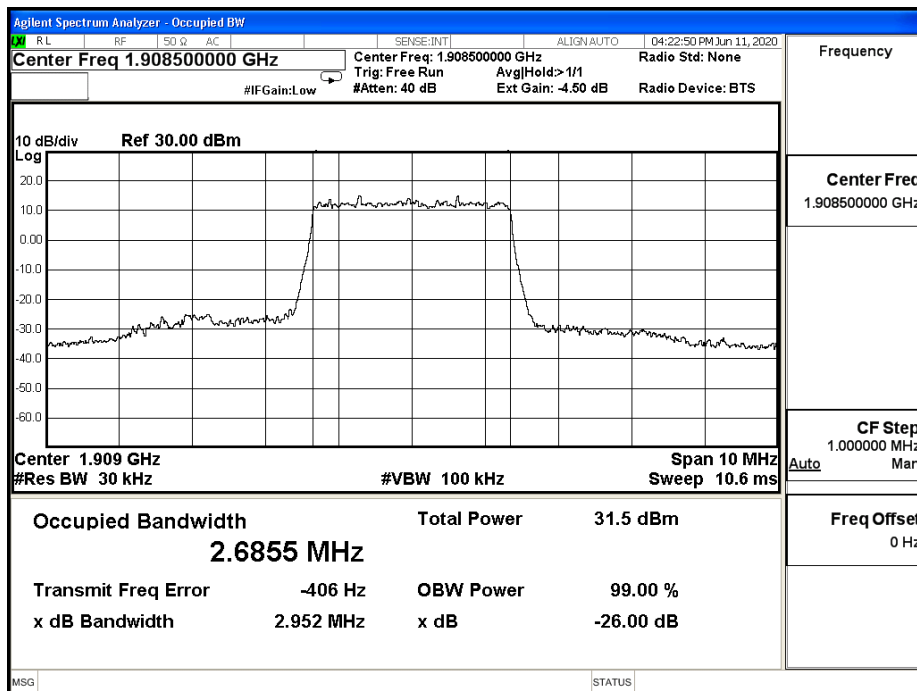
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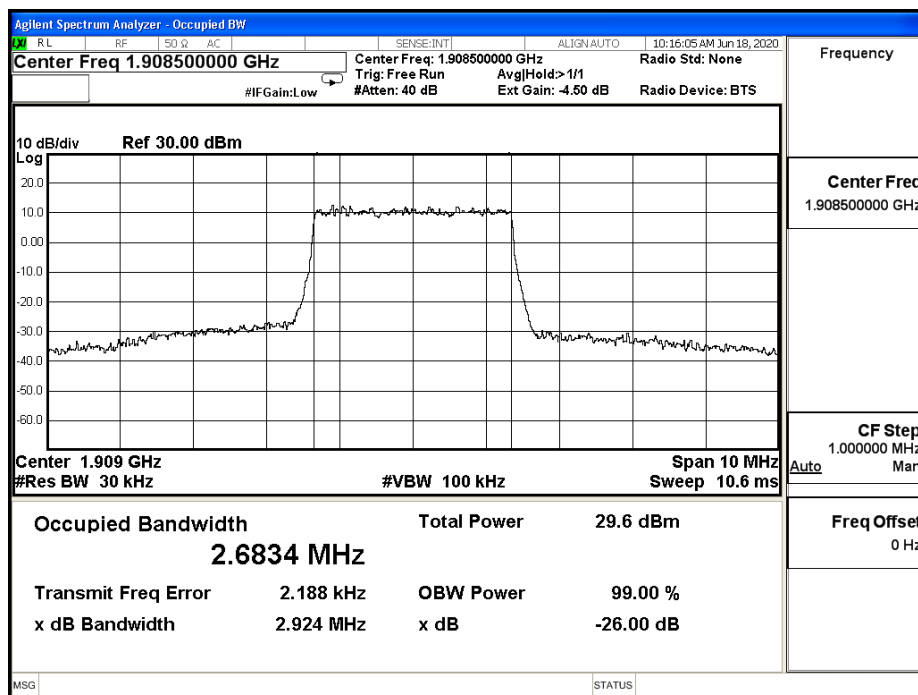
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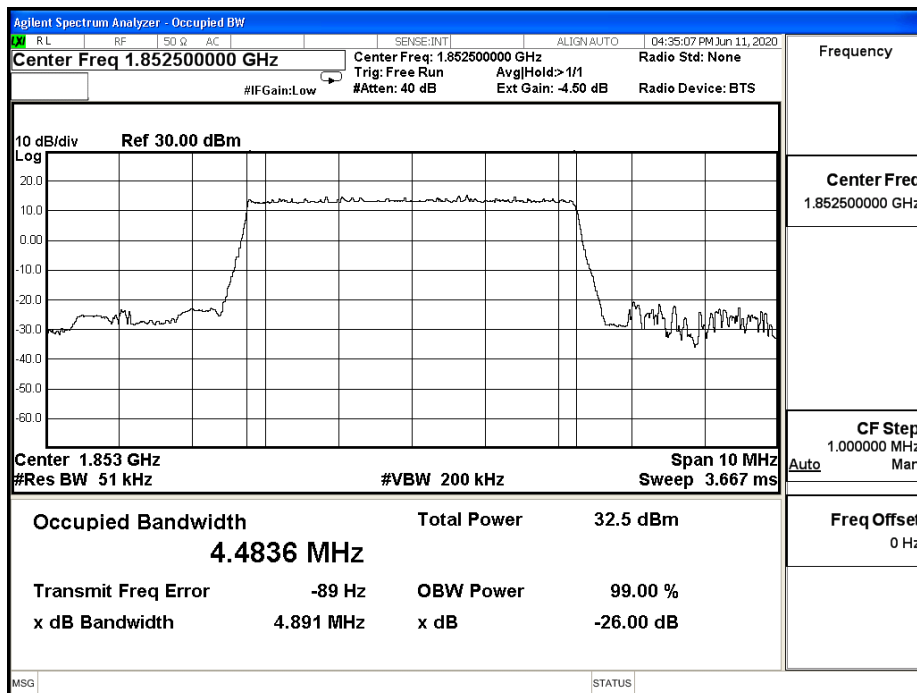
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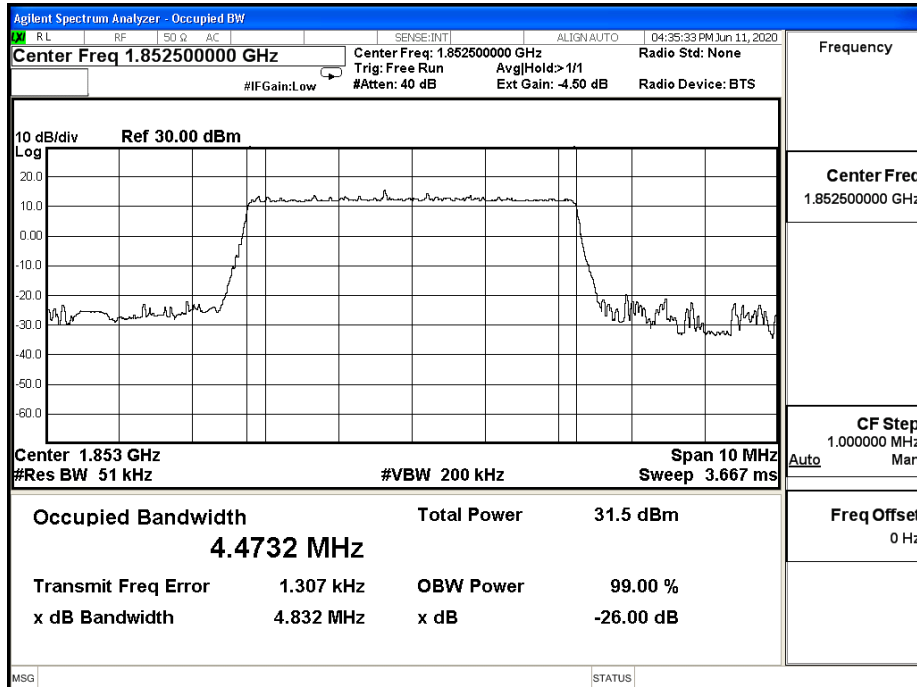
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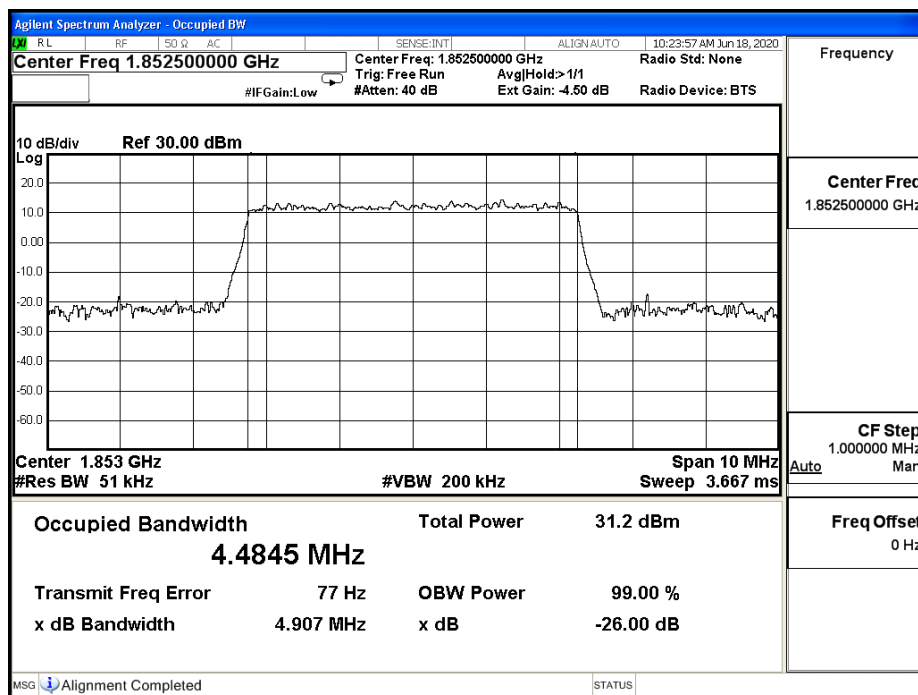
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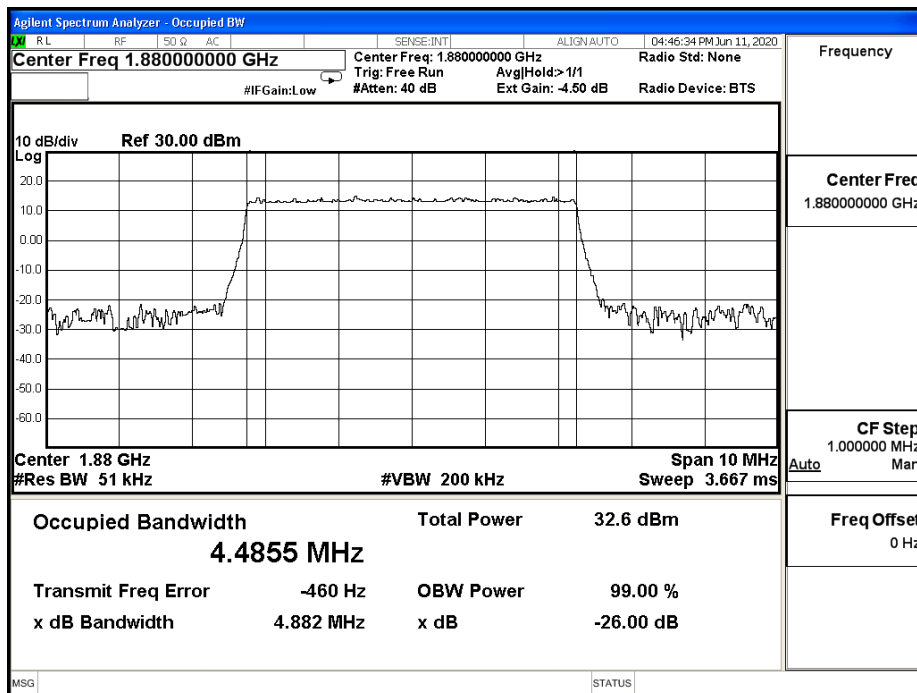
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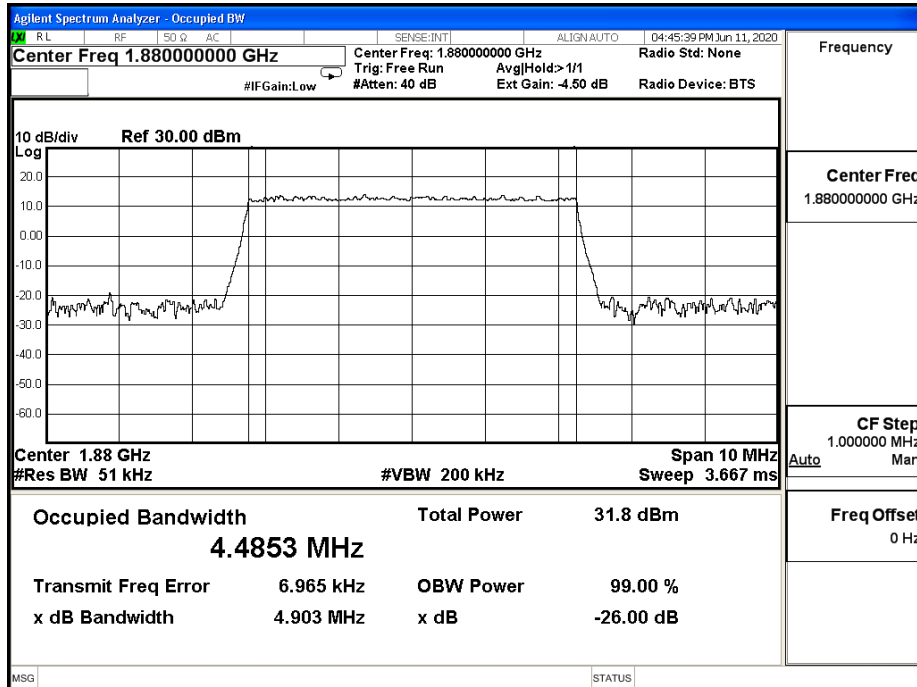
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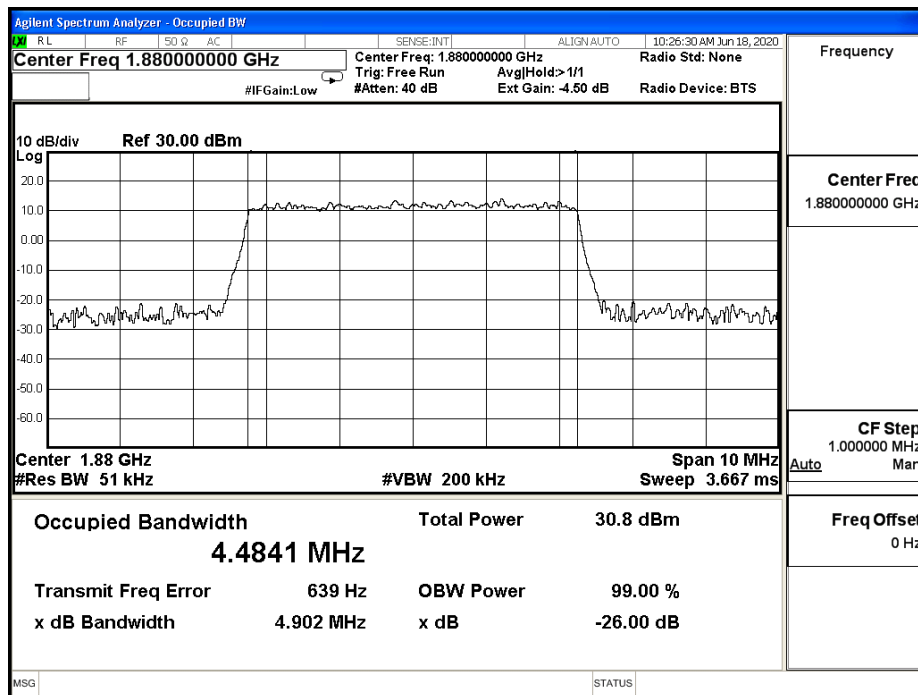
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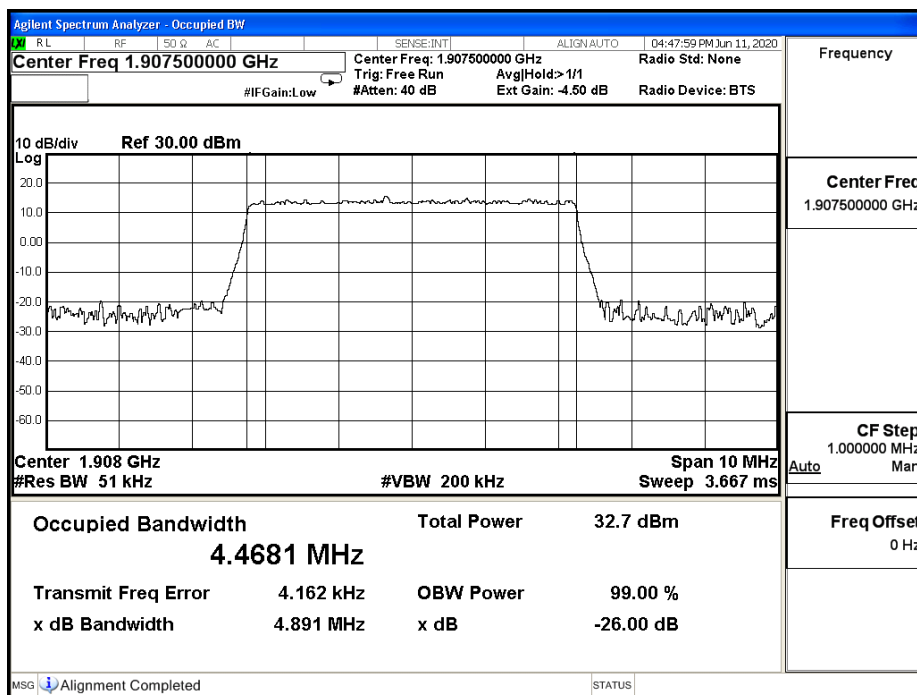
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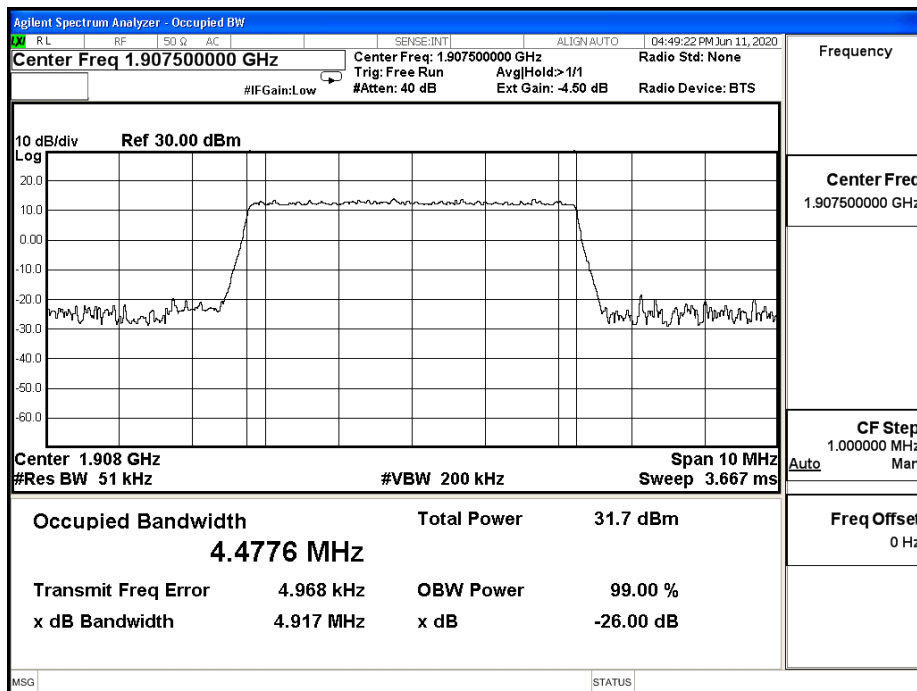
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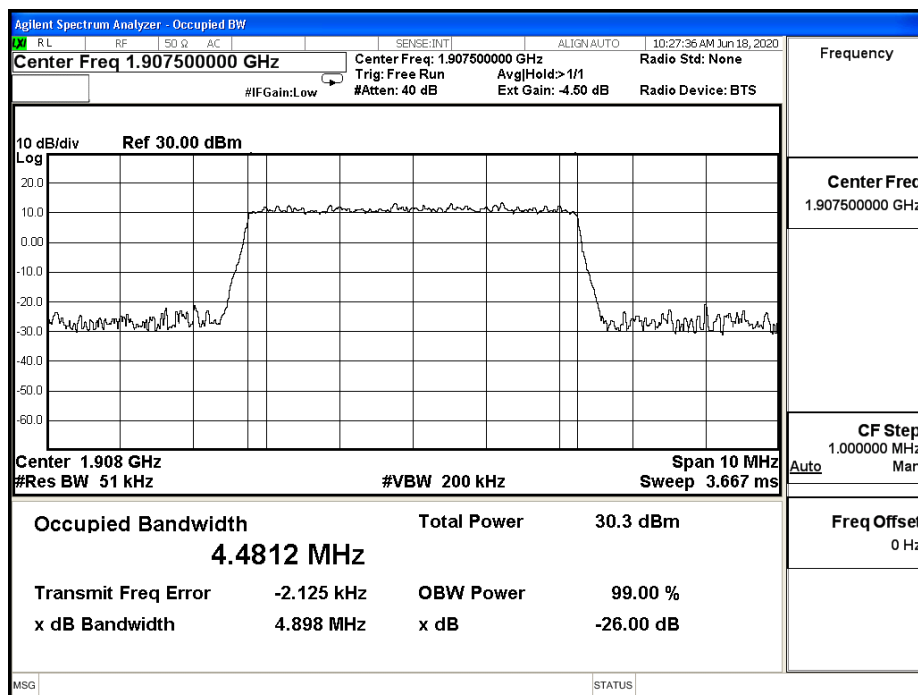
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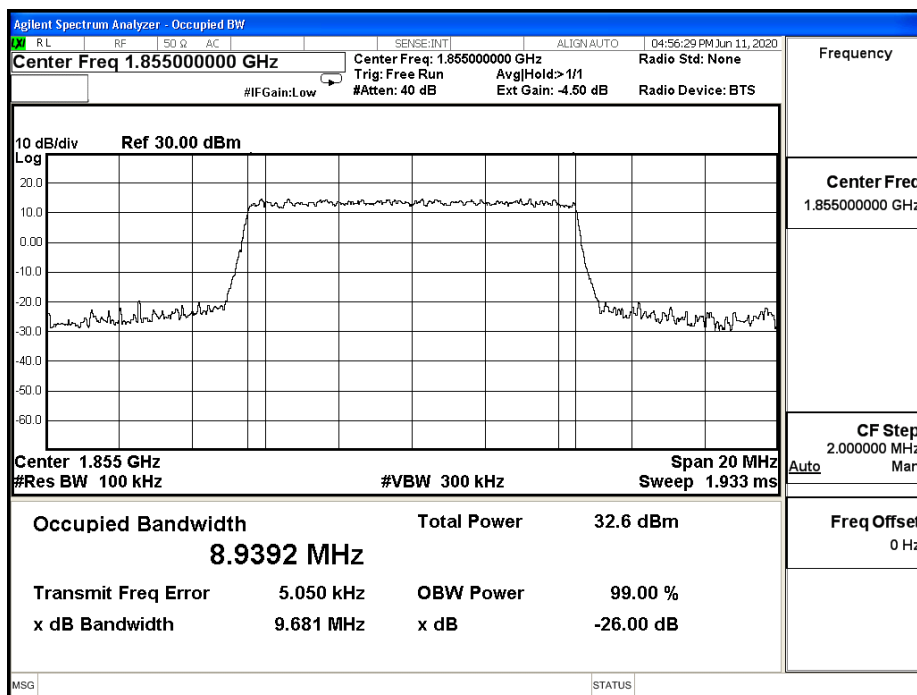
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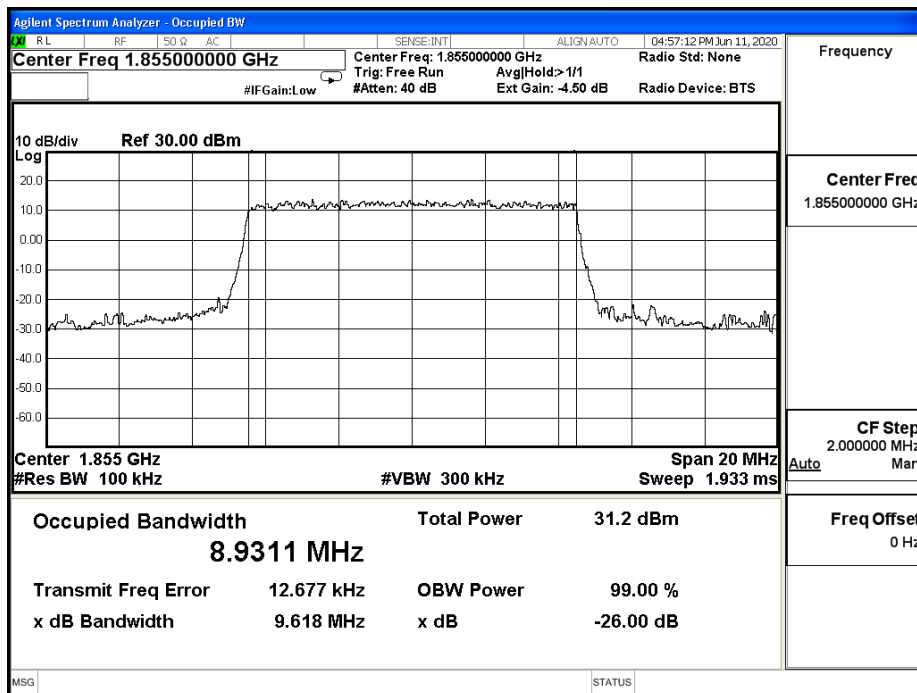
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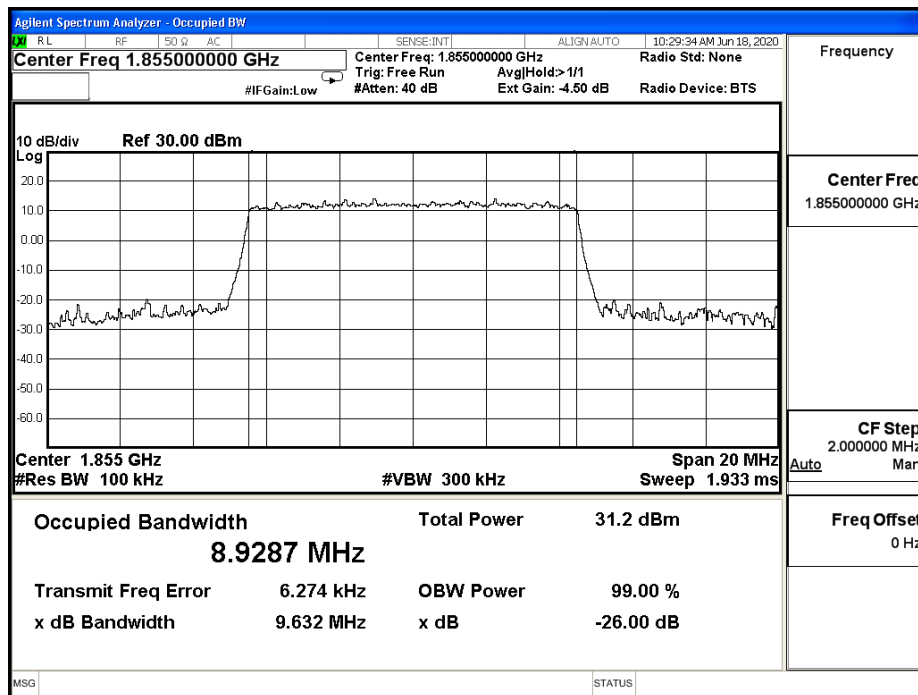
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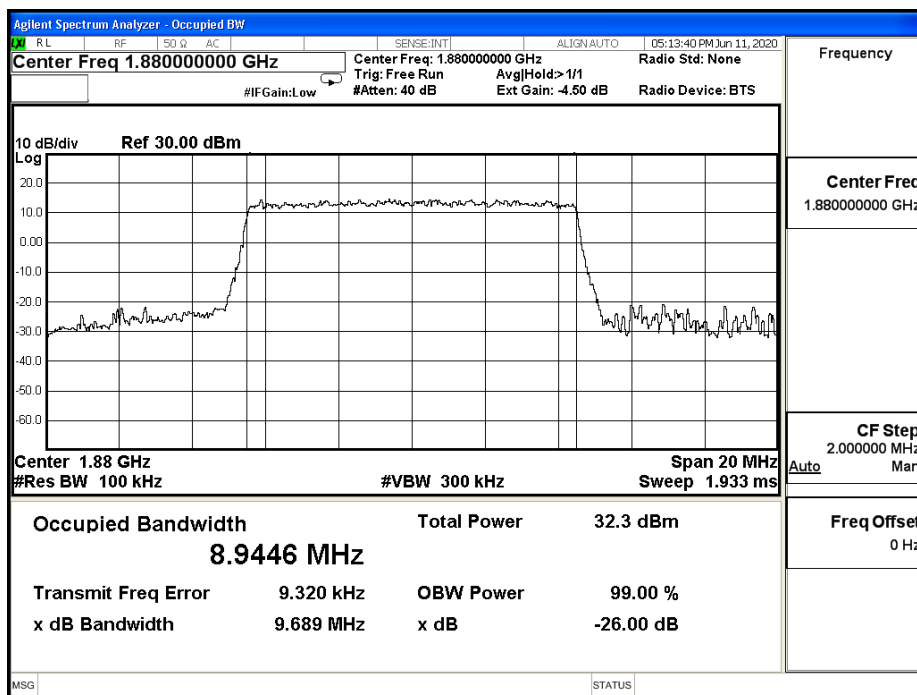
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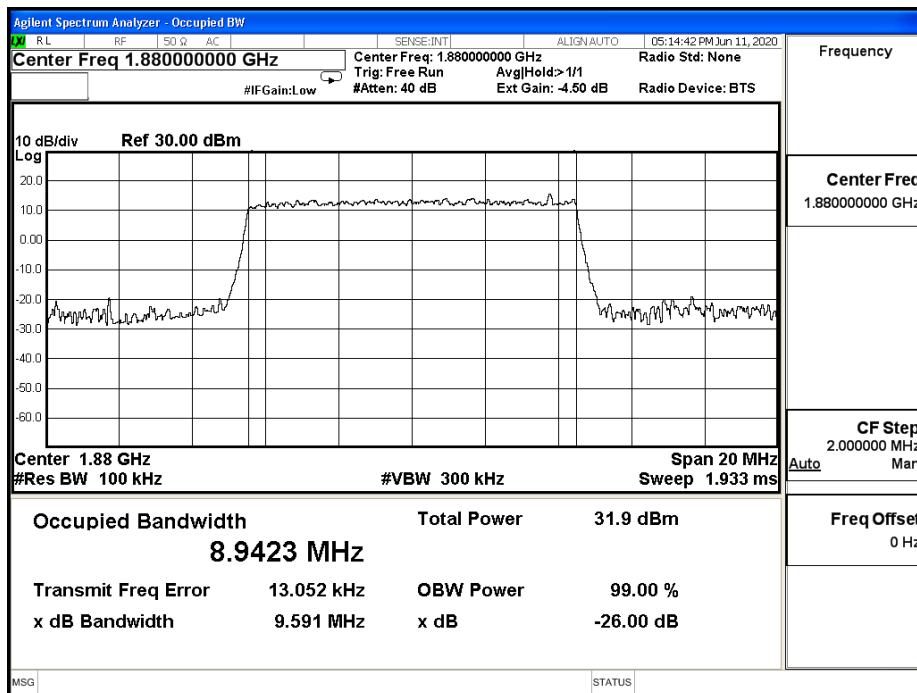
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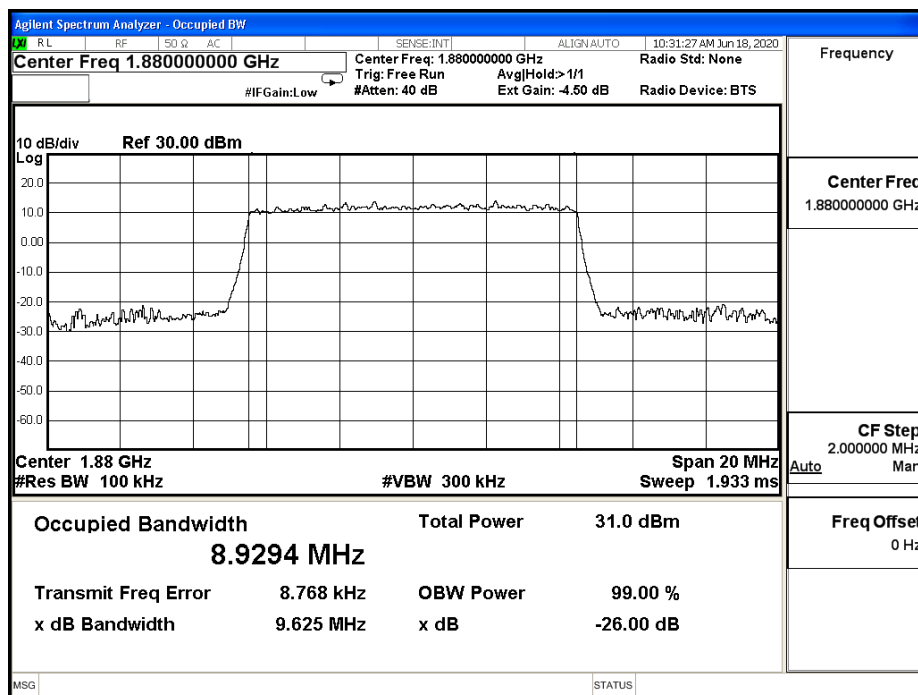
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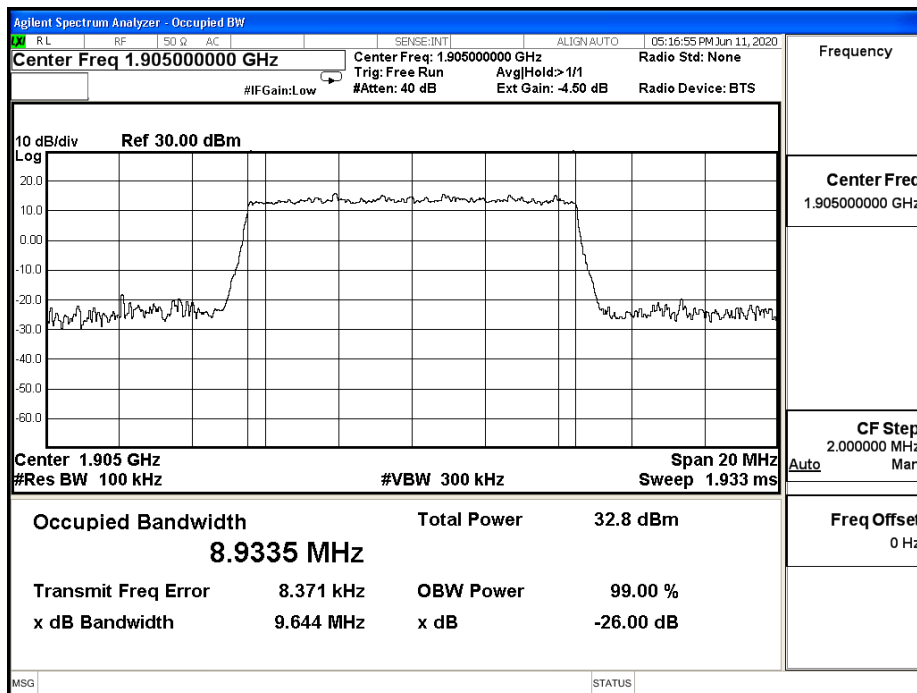
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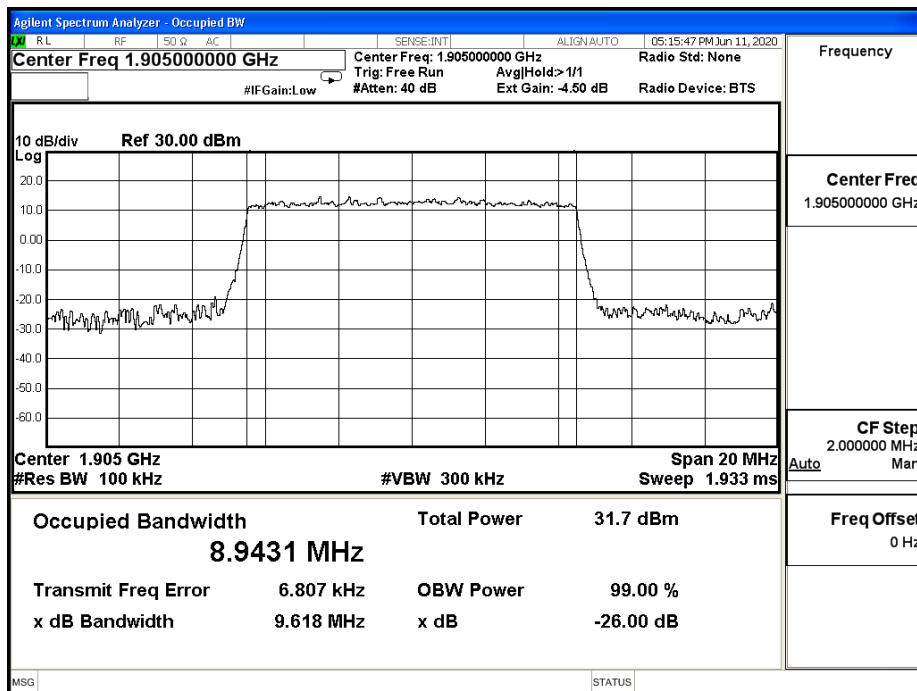
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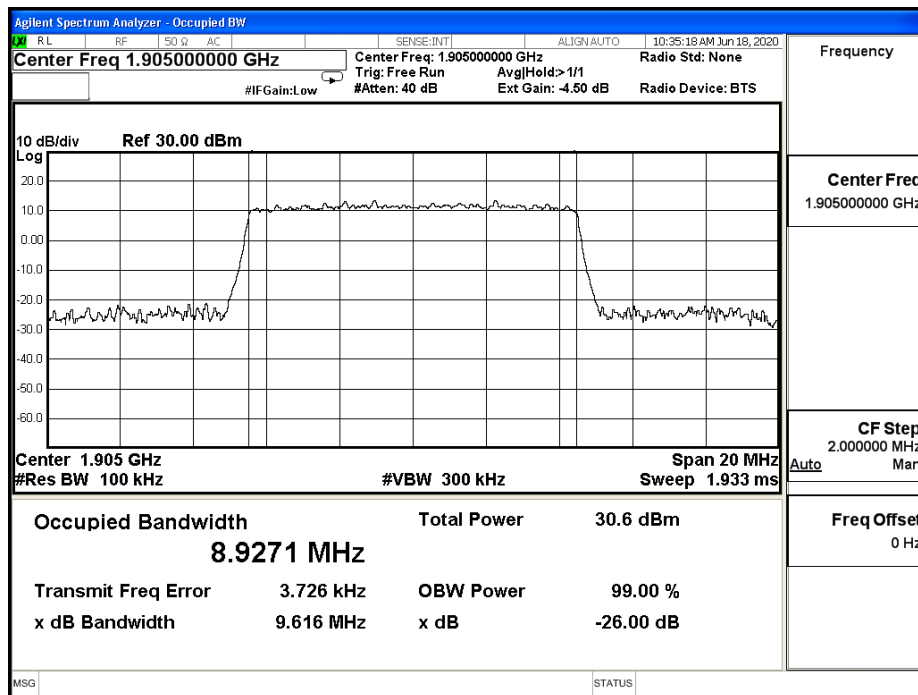
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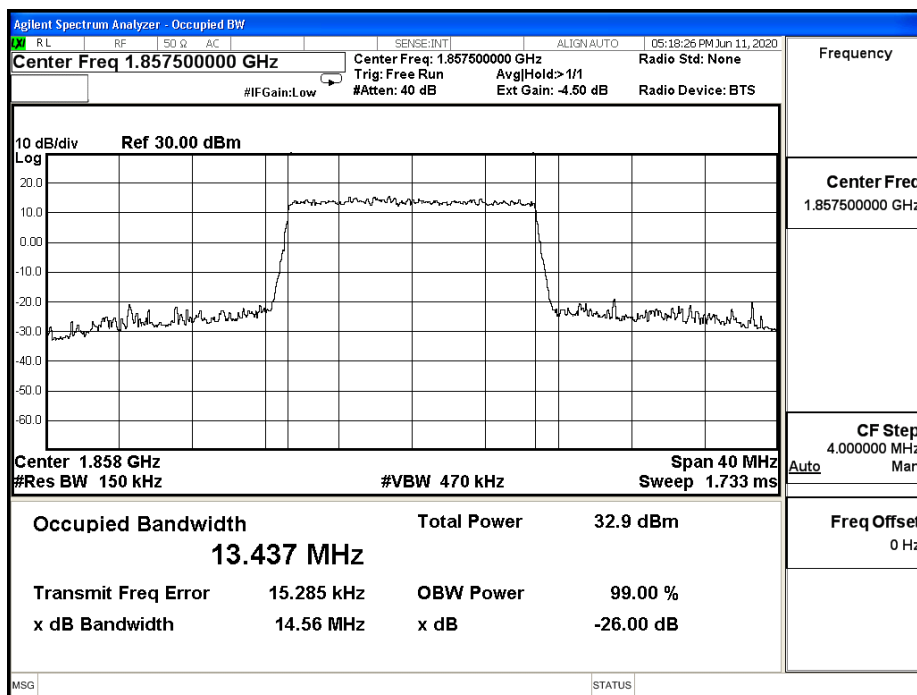
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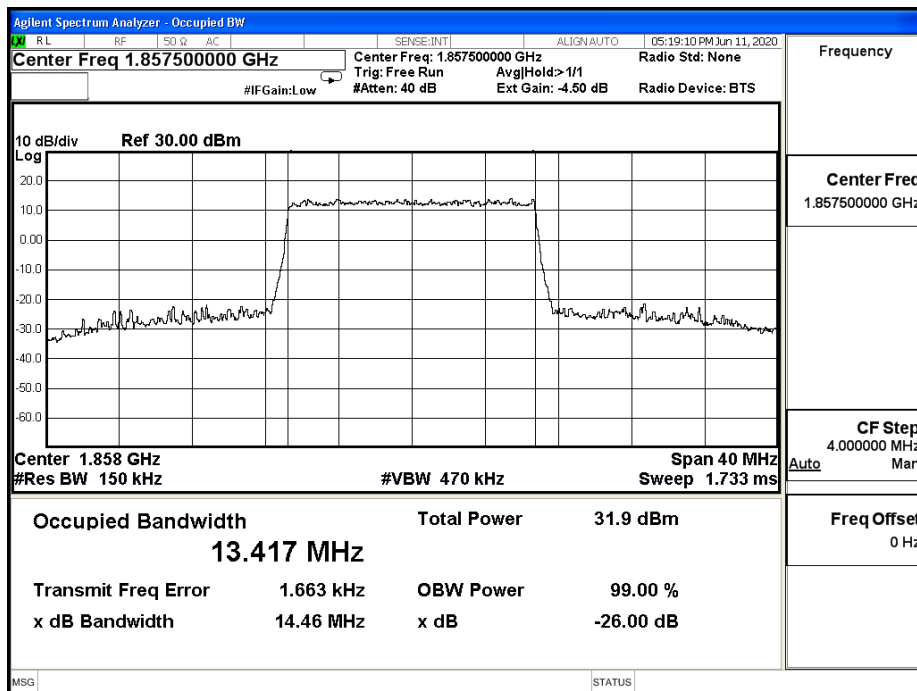
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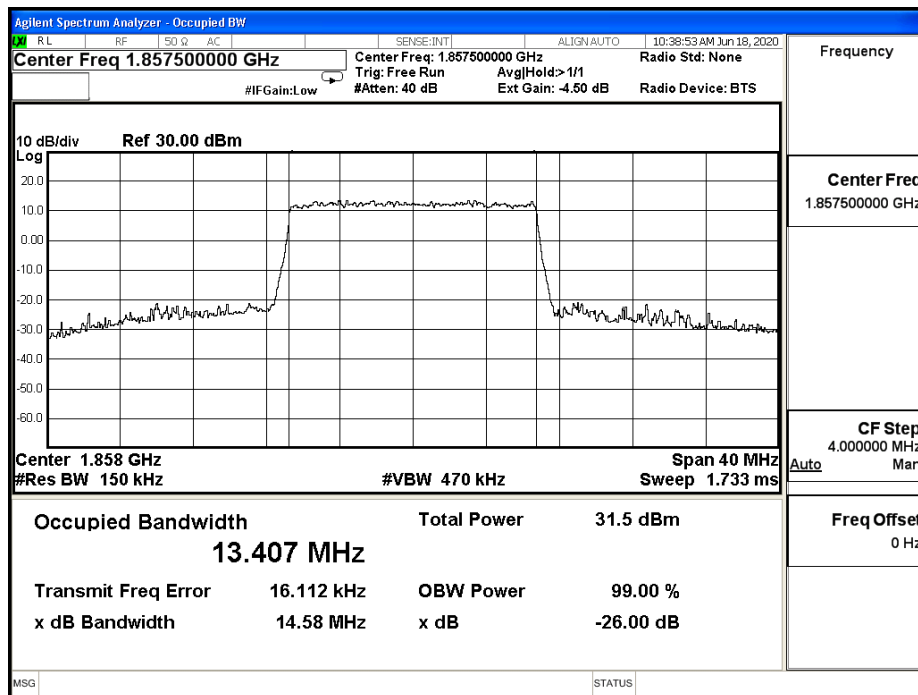
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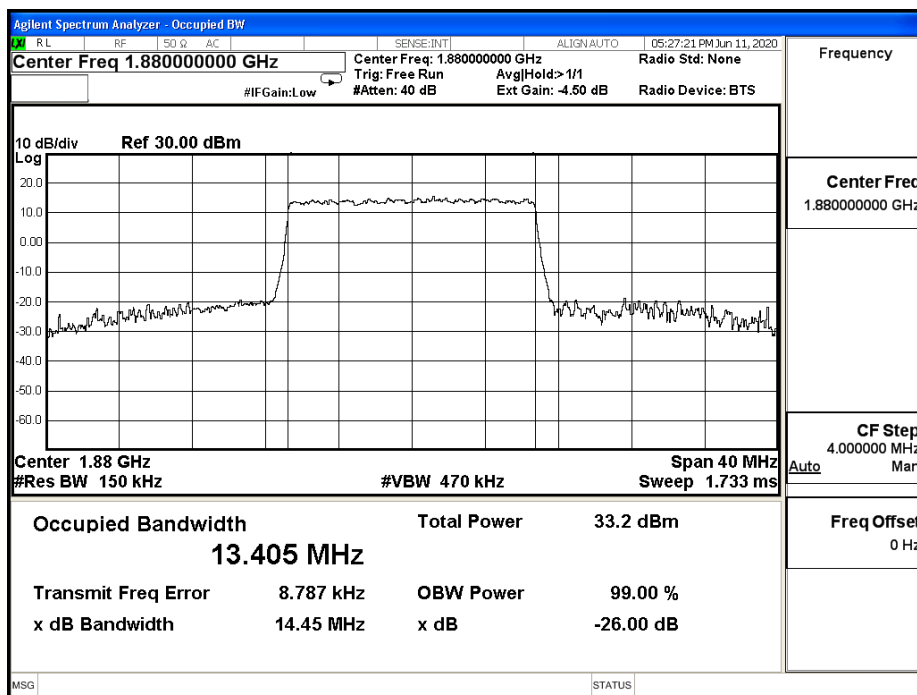
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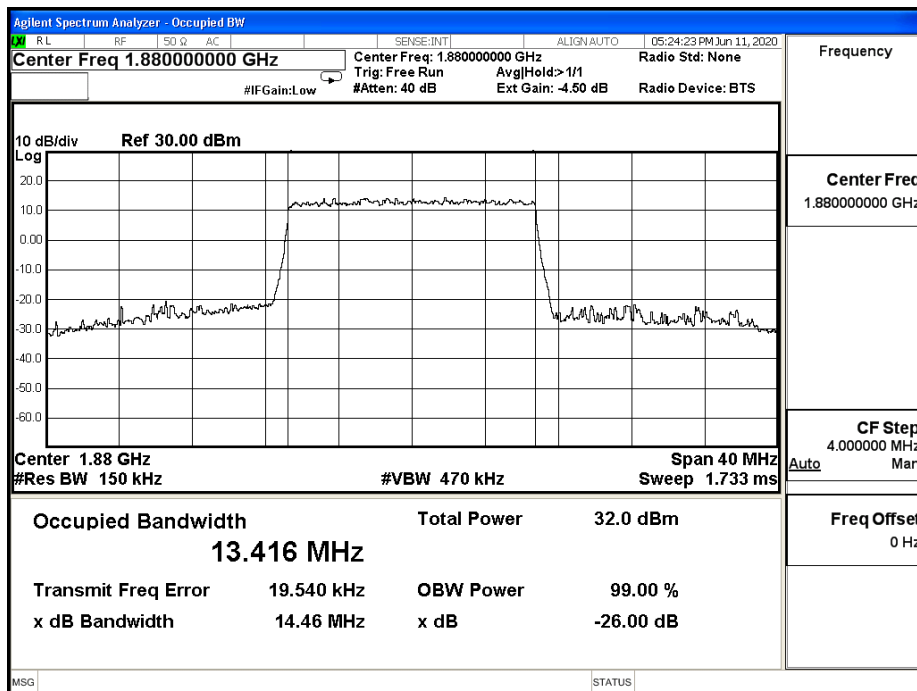
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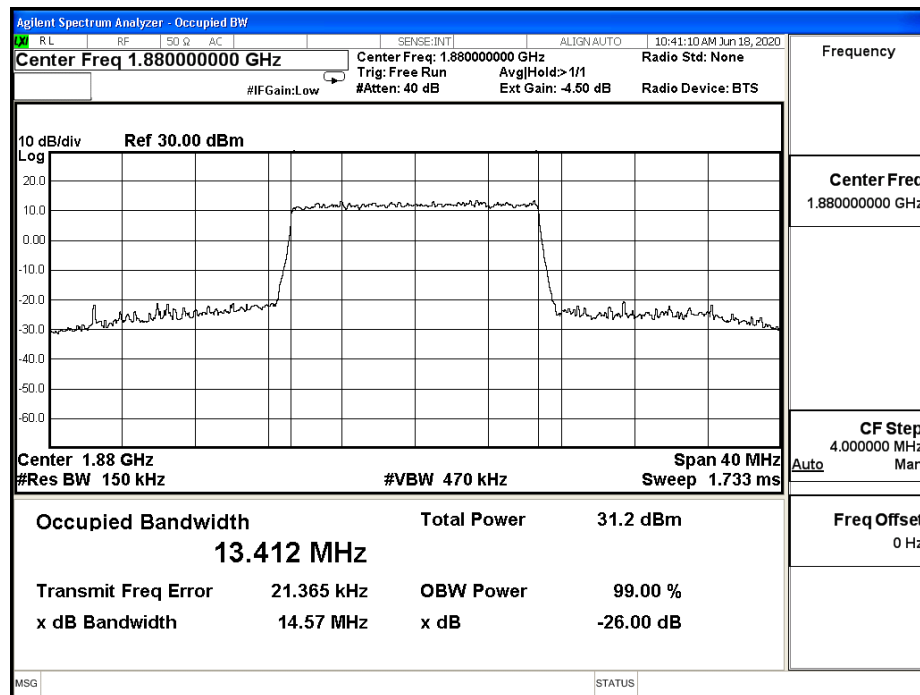
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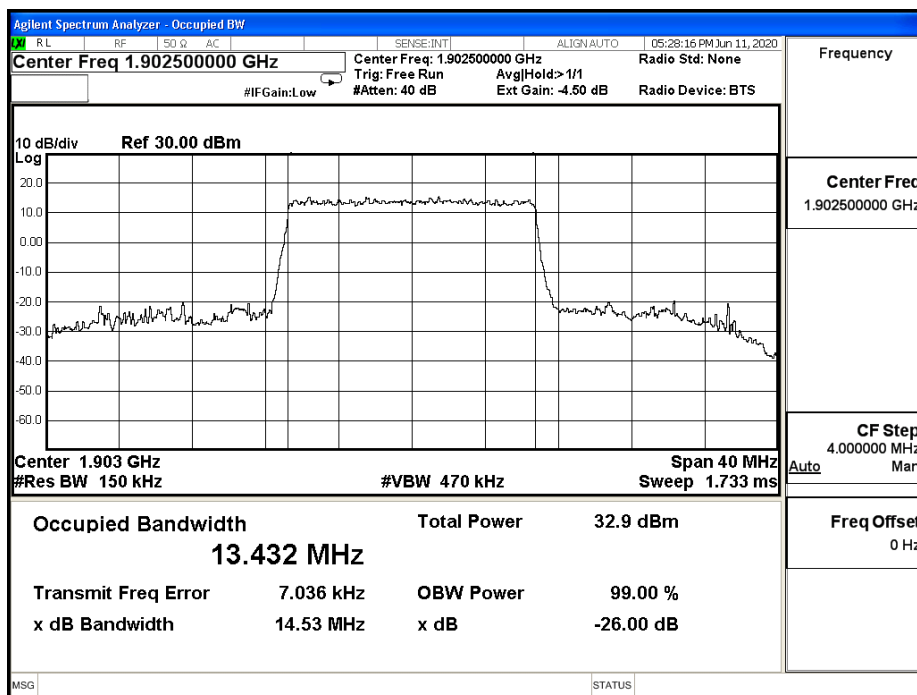
LTE_B2_CH18900_15M_16-QAM_75RB0



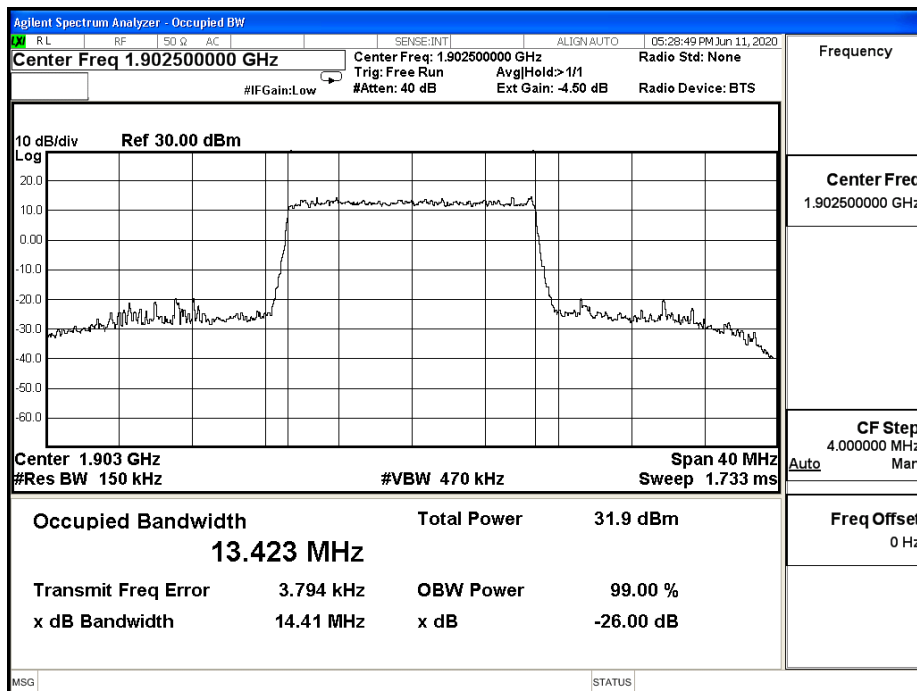
LTE_B2_CH18900_15M_64-QAM_75RB0



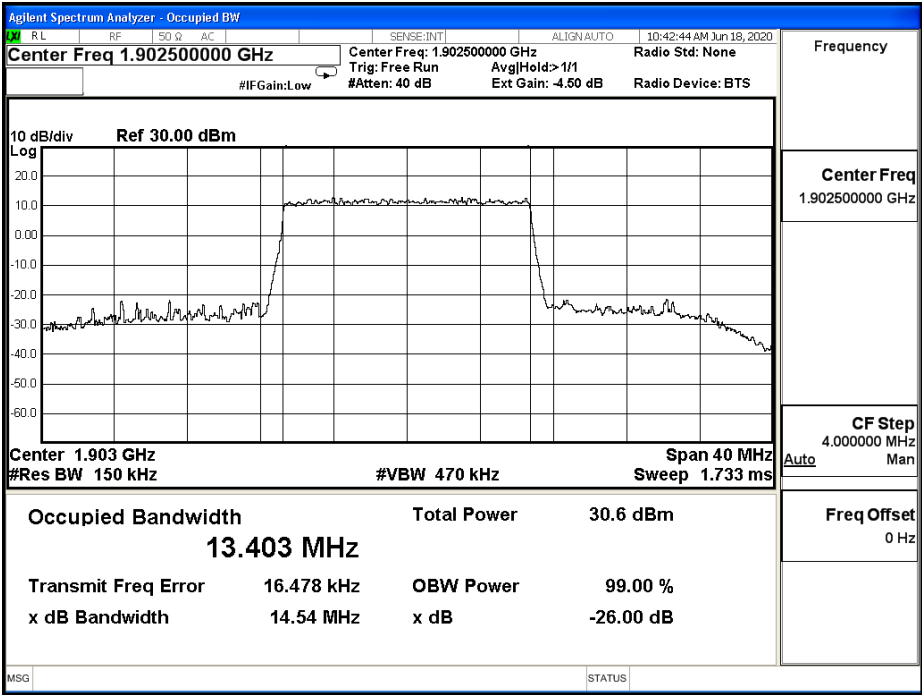
LTE_B2_CH19125_15M_QPSK_75RB0



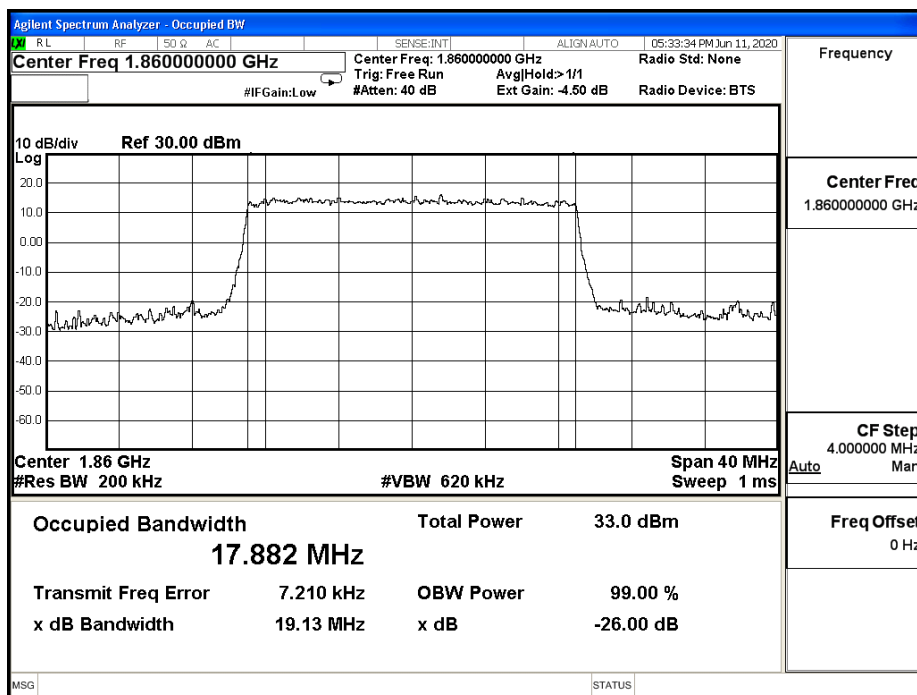
LTE_B2_CH19125_15M_16-QAM_75RB0



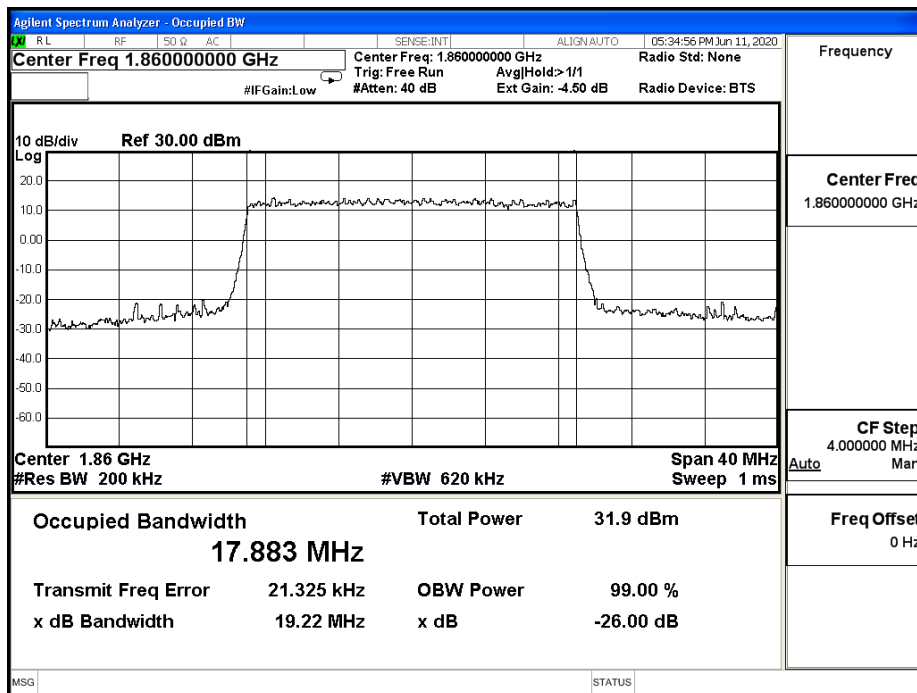
LTE_B2_CH19125_15M_64-QAM_75RB0



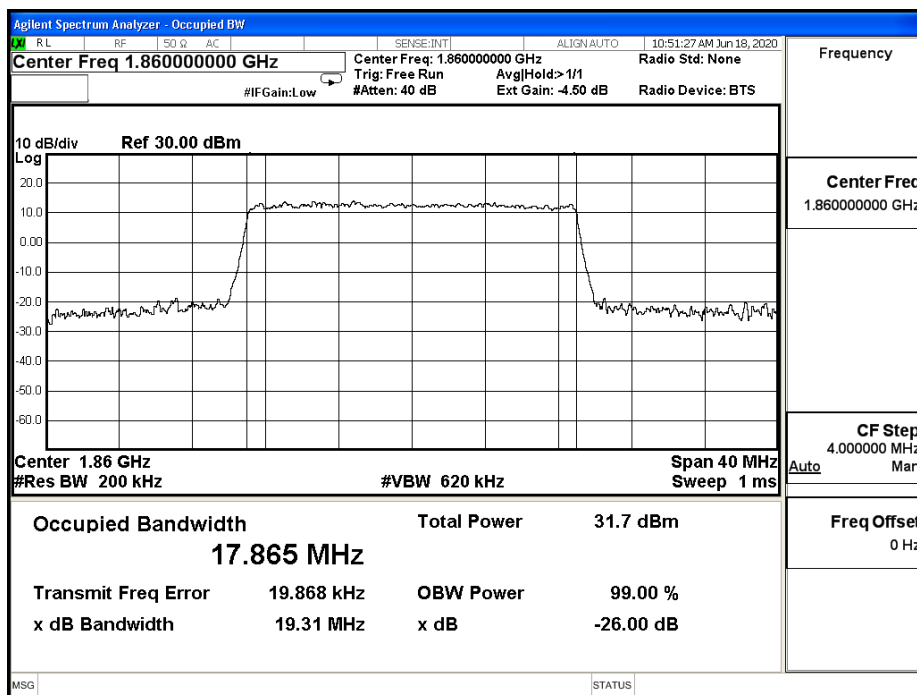
LTE_B2_CH18700_20M_QPSK_100RB0



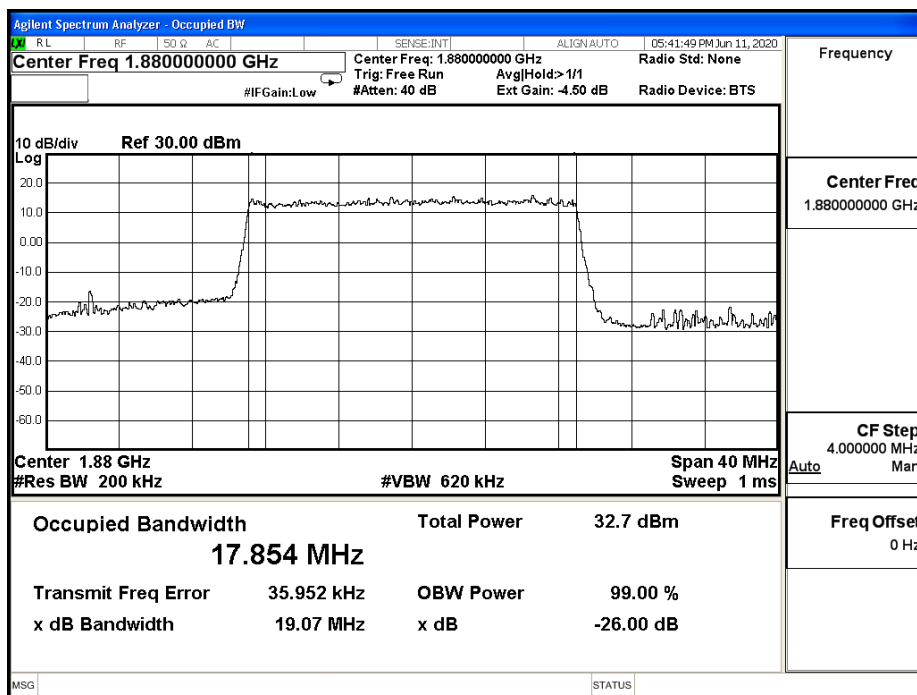
LTE_B2_CH18700_20M_16-QAM_100RB0



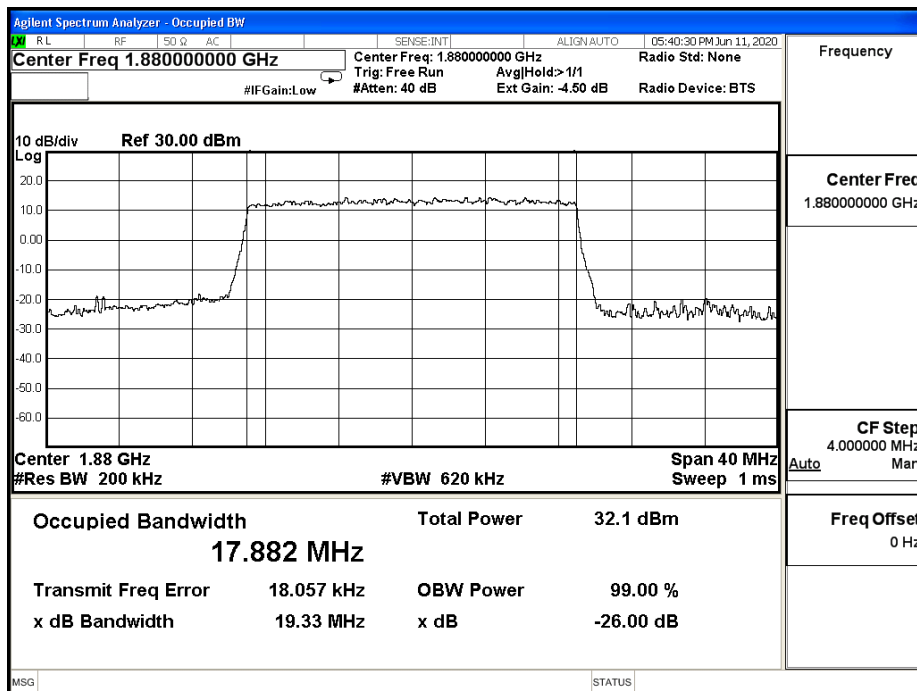
LTE_B2_CH18700_20M_64-QAM_100RB0



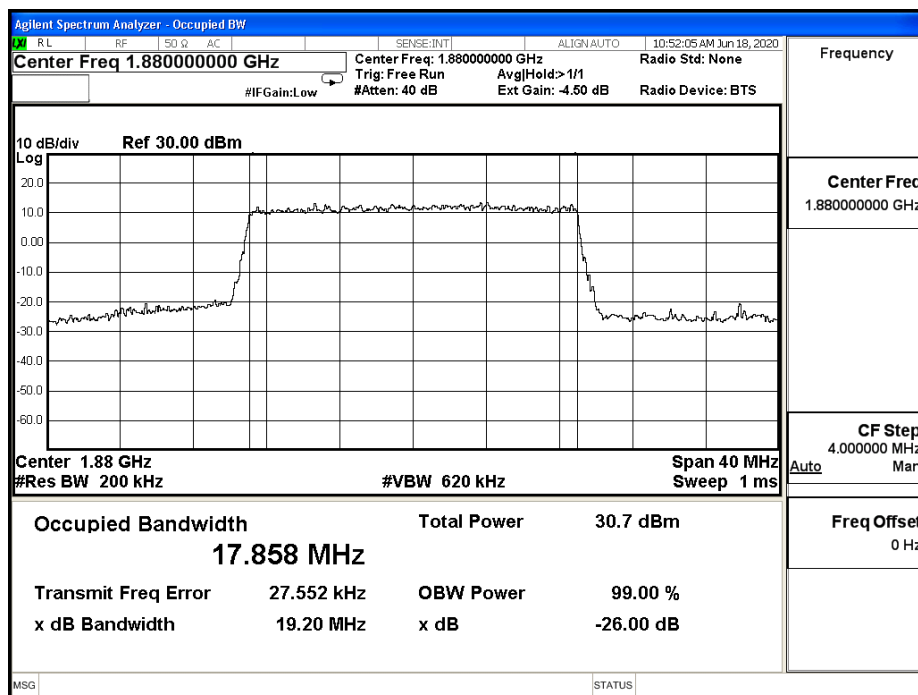
LTE_B2_CH18900_20M_QPSK_100RB0



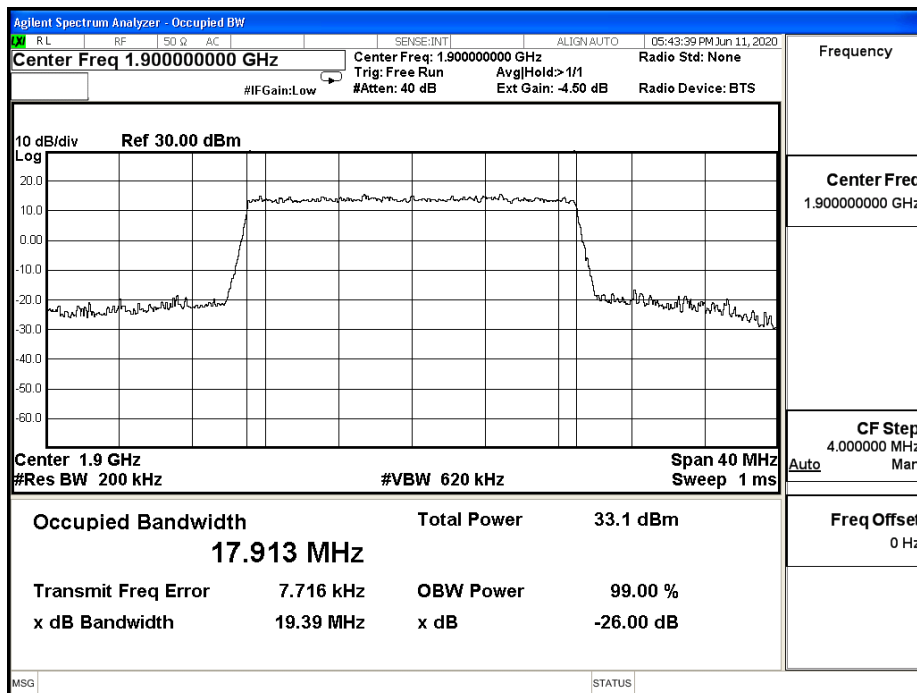
LTE_B2_CH18900_20M_16-QAM_100RB0



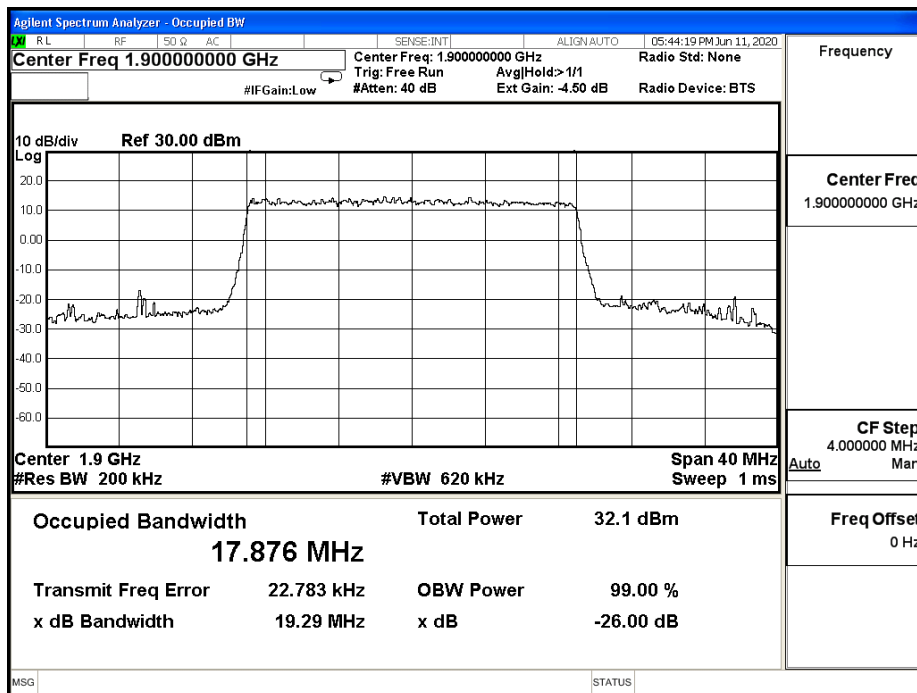
LTE_B2_CH18900_20M_64-QAM_100RB0



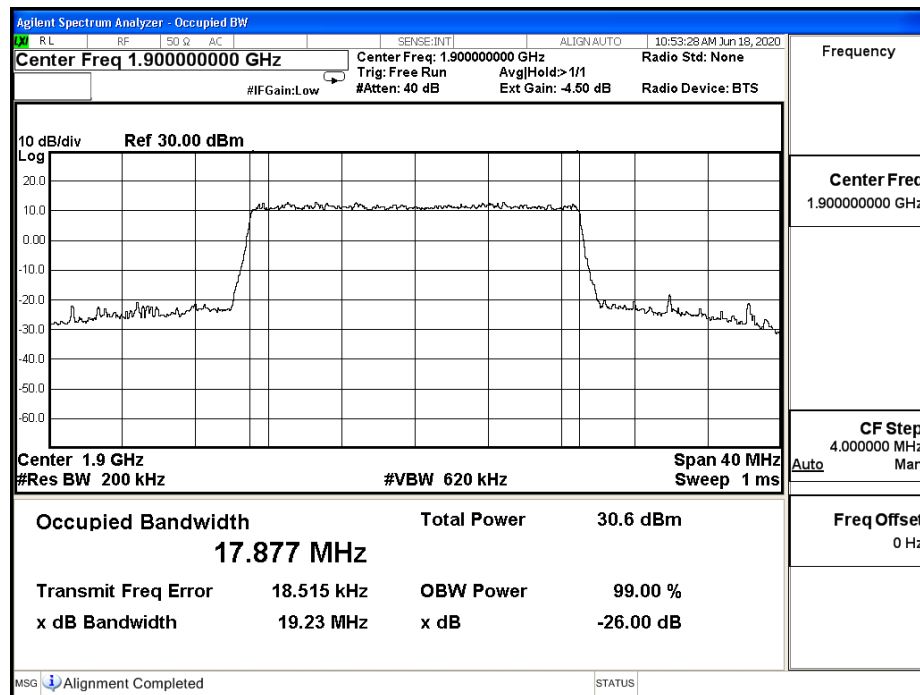
LTE_B2_CH19100_20M_QPSK_100RB0



LTE_B2_CH19100_20M_16-QAM_100RB0



LTE_B2_CH19100_20M_64-QAM_100RB0

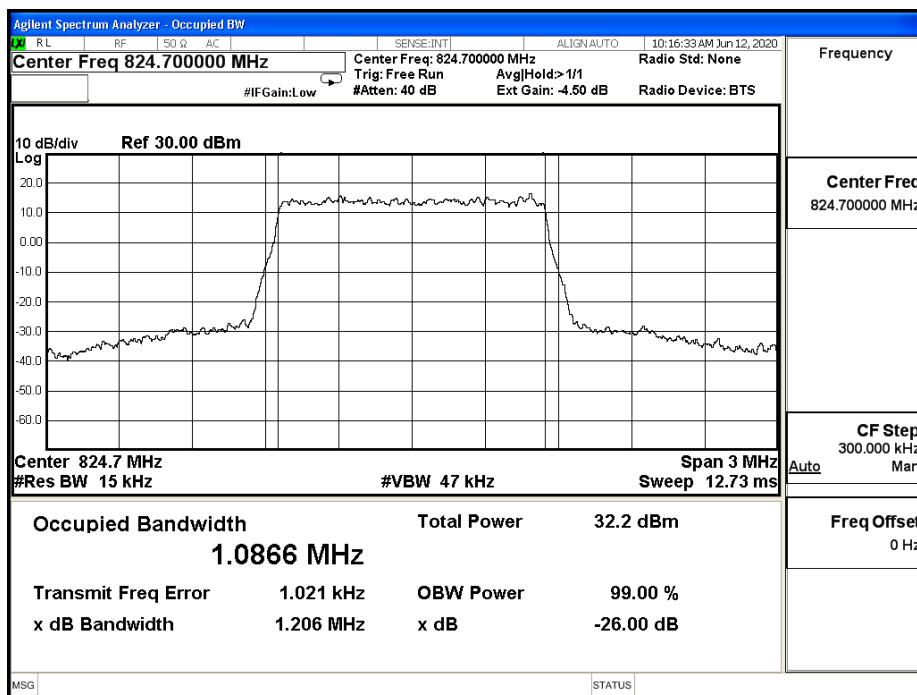


Product	LV55		
Test Item	Occupied Bandwidth		
Test Mode	Mode 2: LTE Band 5		
Date of Test	2020/06/12~2020/06/18	Test Site	SR12-H
Temperature (°C)	25	Humidity (%RH)	55

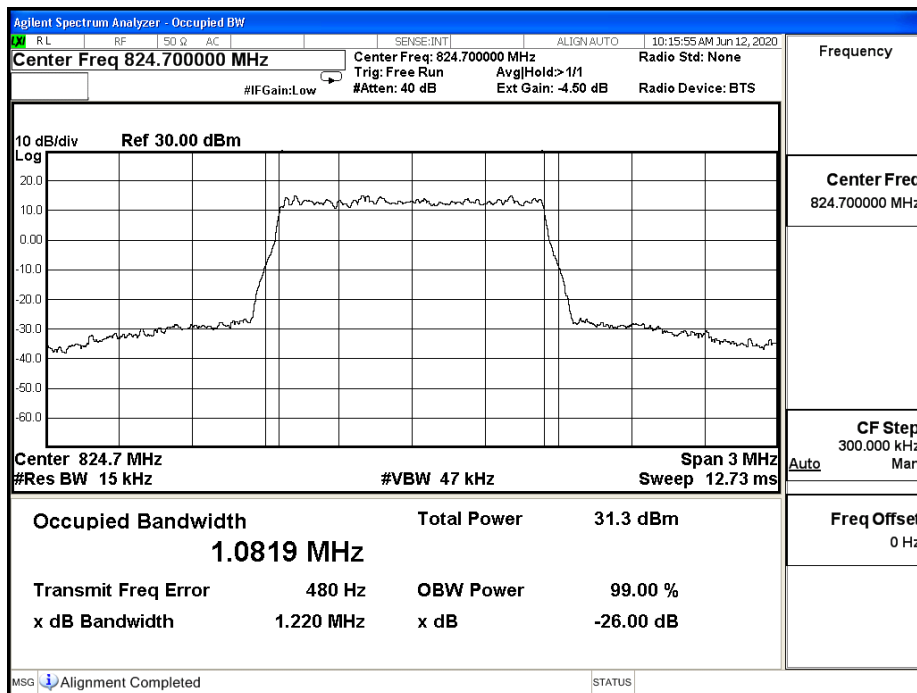
LTE Band5_Full RB					
Bandwidth (MHz)	Modulation	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
			26dB BW	99% BW	
1.4M	QPSK	824.7	1.206	1.086	N/A
		836.5	1.216	1.079	N/A
		848.3	1.219	1.079	N/A
	16-QAM	824.7	1.220	1.081	N/A
		836.5	1.224	1.081	N/A
		848.3	1.202	1.079	N/A
	64-QAM	824.7	1.208	1.078	N/A
		836.5	1.213	1.079	N/A
		848.3	1.210	1.079	N/A
3M	QPSK	825.5	2.935	2.687	N/A
		836.5	2.943	2.694	N/A
		847.5	2.953	2.688	N/A
	16-QAM	825.5	2.958	2.686	N/A
		836.5	2.952	2.686	N/A
		847.5	2.950	2.685	N/A
	64-QAM	825.5	2.920	2.688	N/A
		836.5	2.909	2.686	N/A
		847.5	2.909	2.688	N/A
5M	QPSK	826.5	4.899	4.487	N/A
		836.5	4.908	4.487	N/A
		846.5	4.892	4.470	N/A
	16-QAM	826.5	4.853	4.471	N/A
		836.5	4.914	4.487	N/A
		846.5	4.924	4.478	N/A
	64-QAM	826.5	4.843	4.480	N/A
		836.5	4.881	4.477	N/A
		846.5	4.878	4.484	N/A

LTE Band5_Full RB					
Bandwidth (MHz)	Modulation	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
			26dB BW	99% BW	
10M	QPSK	829.0	9.714	8.937	N/A
		836.5	9.636	8.939	N/A
		844.0	9.660	8.931	N/A
	16-QAM	829.0	9.601	8.935	N/A
		836.5	9.639	8.939	N/A
		844.0	9.603	8.930	N/A
	64-QAM	829.0	9.574	8.916	N/A
		836.5	9.621	8.934	N/A
		844.0	9.616	8.912	N/A

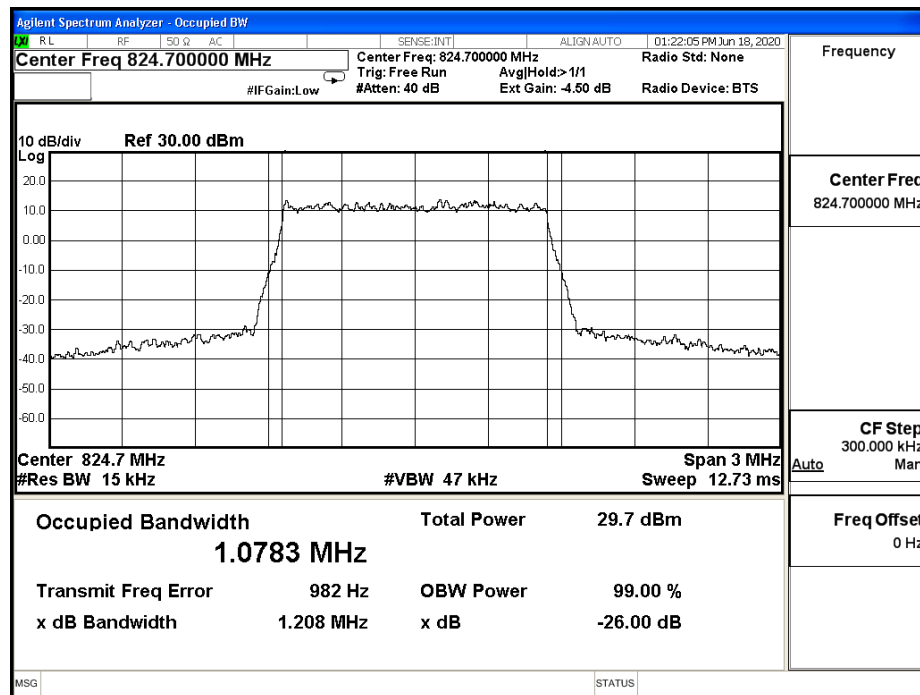
LTE_B5_CH20407_1.4M_QPSK_6RB0



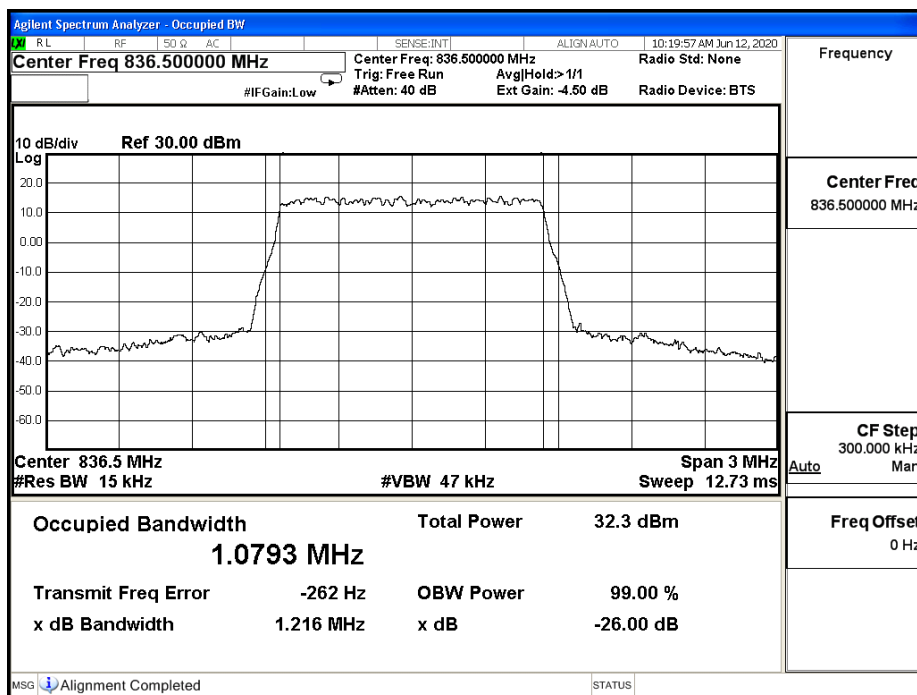
LTE_B5_CH20407_1.4M_16-QAM_6RB0



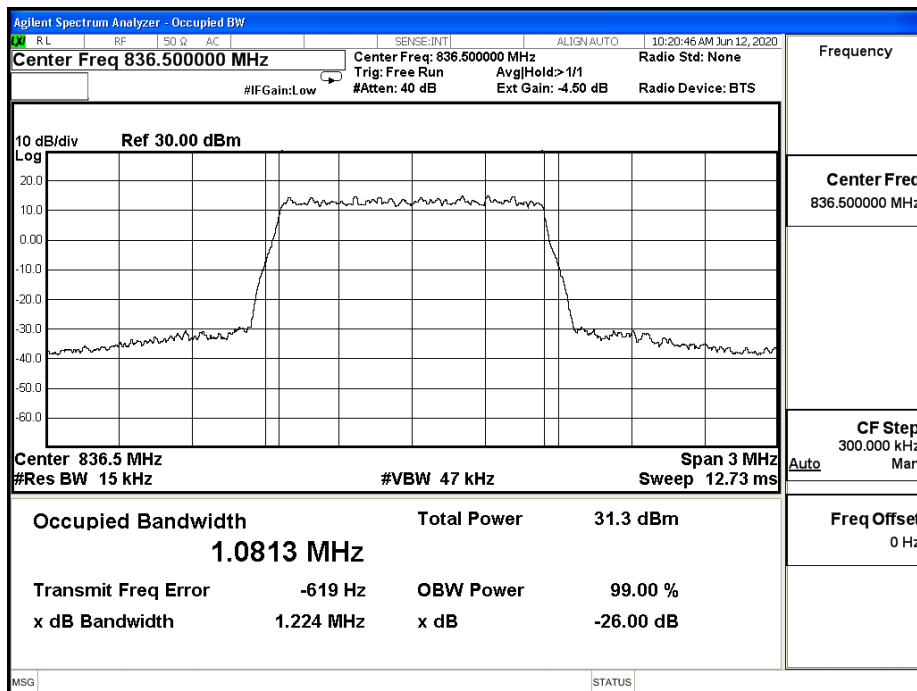
LTE_B5_CH20407_1.4M_64-QAM_6RB0



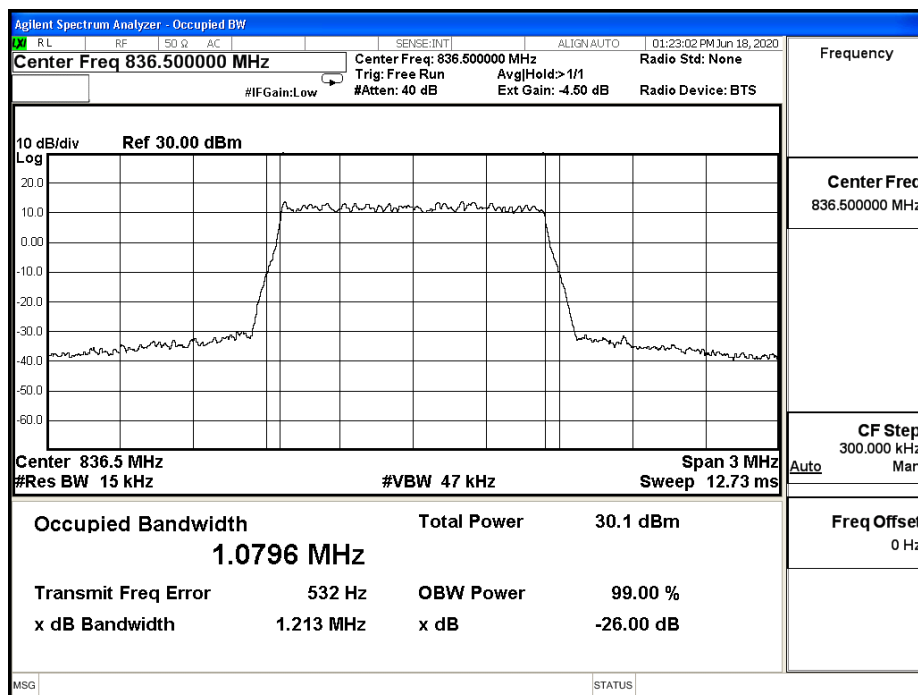
LTE_B5_CH20525_1.4M_QPSK_6RB0



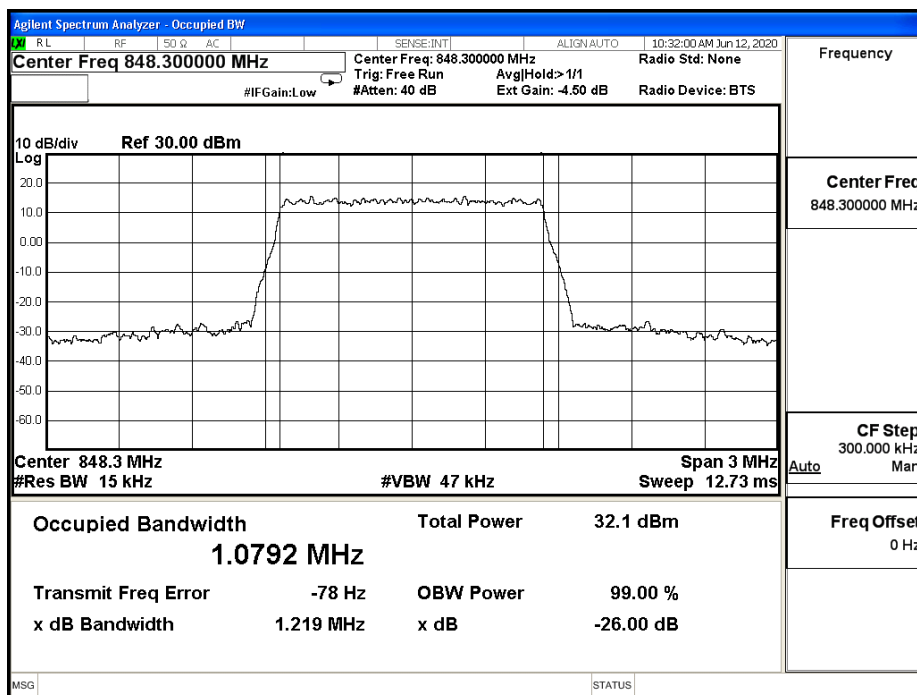
LTE_B5_CH20525_1.4M_16-QAM_6RB0



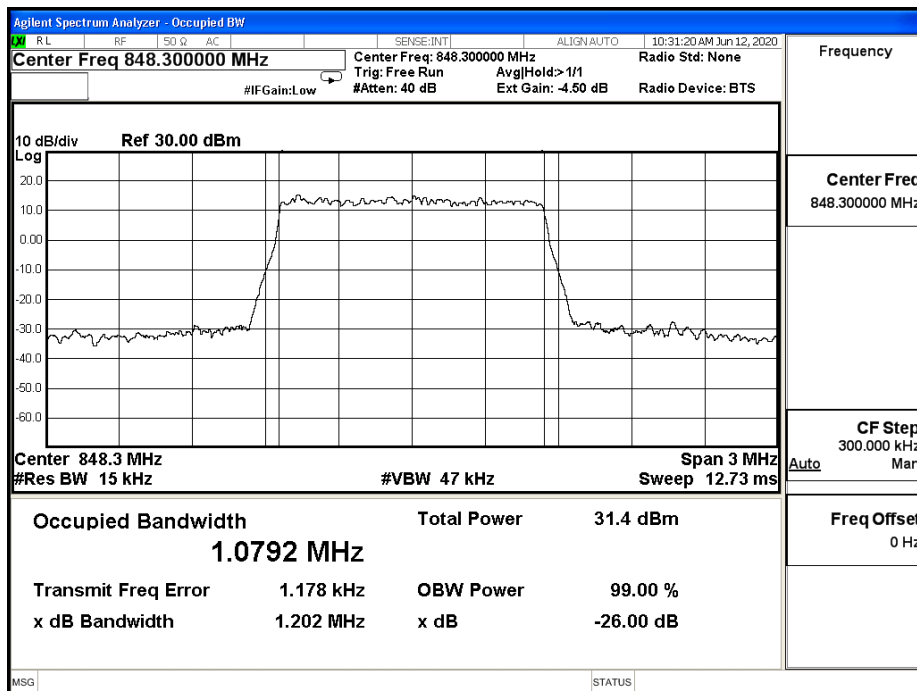
LTE_B5_CH20525_1.4M_64-QAM_6RB0



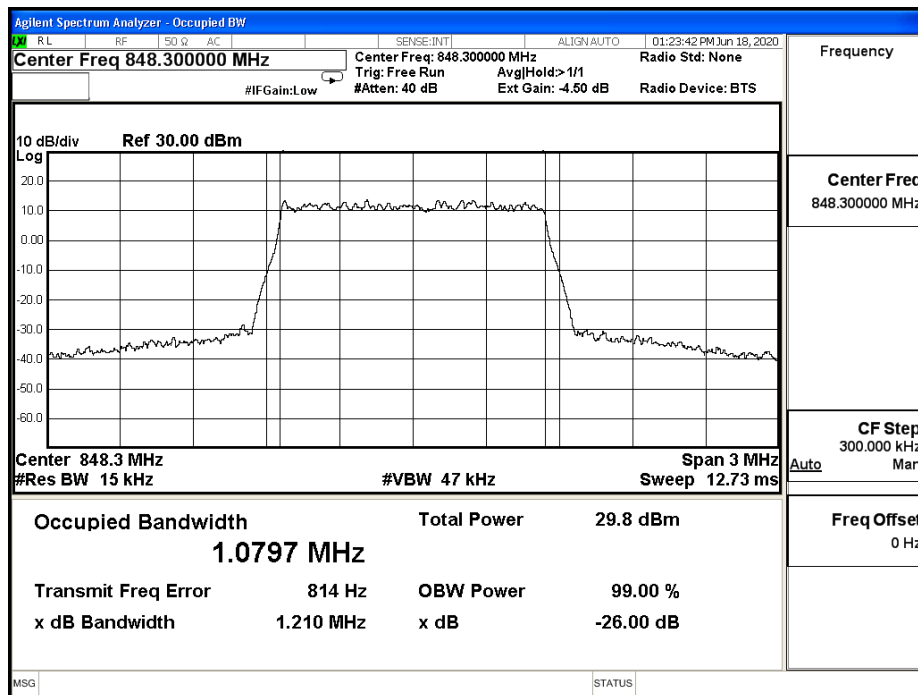
LTE_B5_CH20643_1.4M_QPSK_6RB0



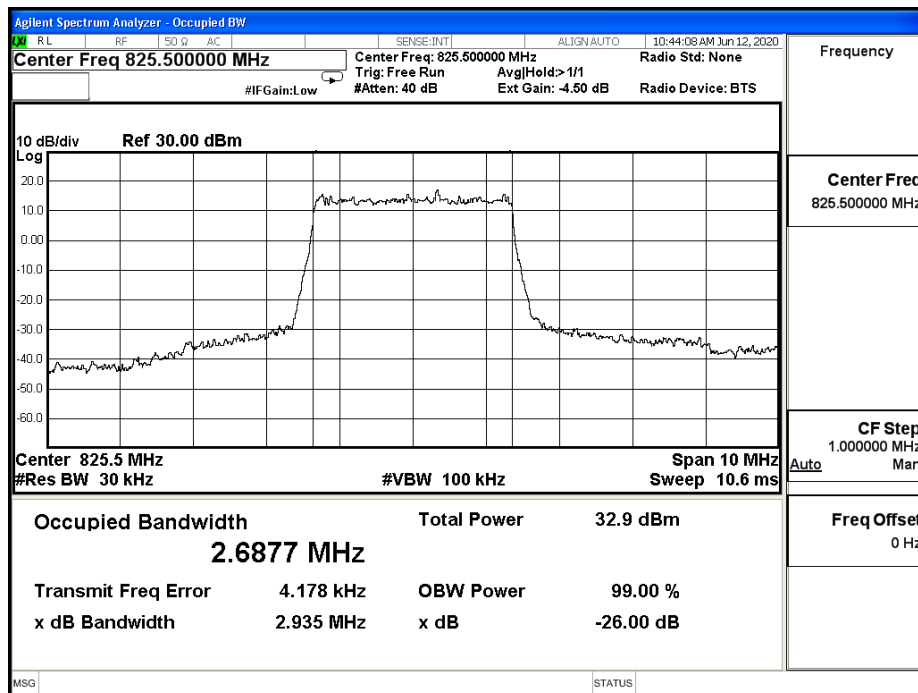
LTE_B5_CH20643_1.4M_16-QAM_6RB0



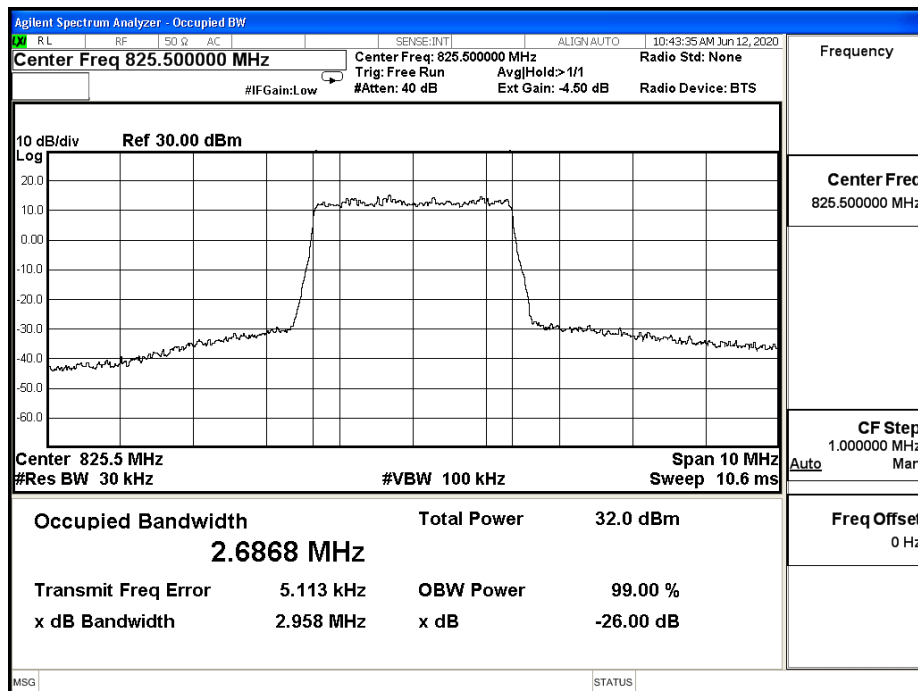
LTE_B5_CH20643_1.4M_64-QAM_6RB0



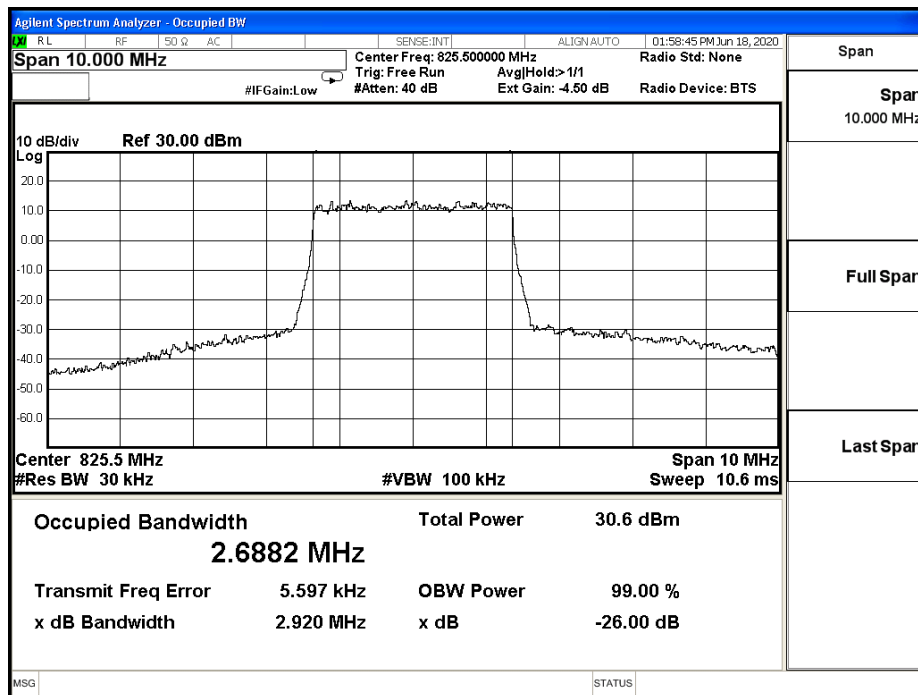
LTE_B5_CH20415_3M_QPSK_15RB0



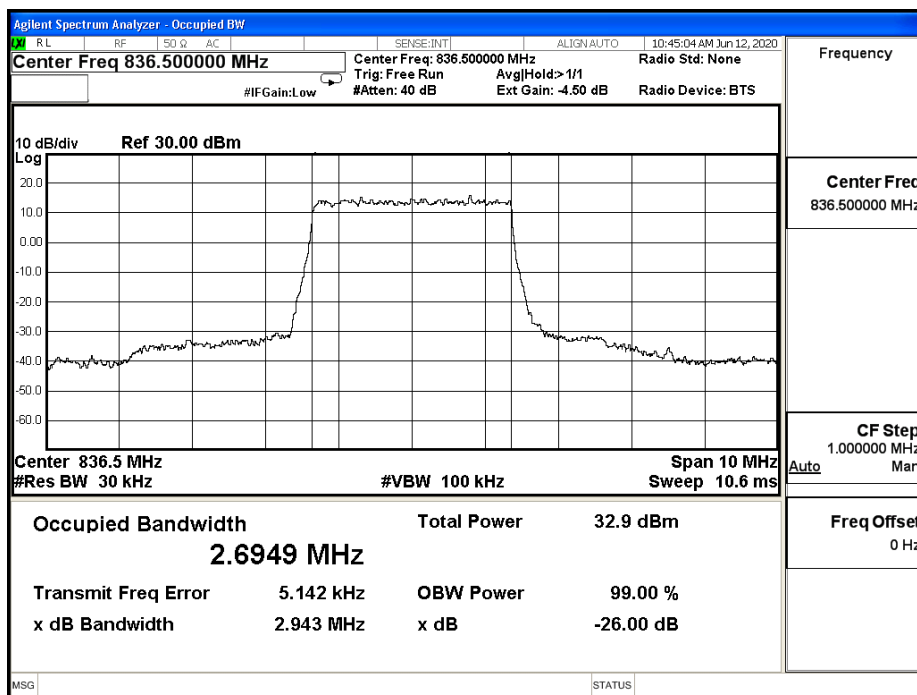
LTE_B5_CH20415_3M_16-QAM_15RB0



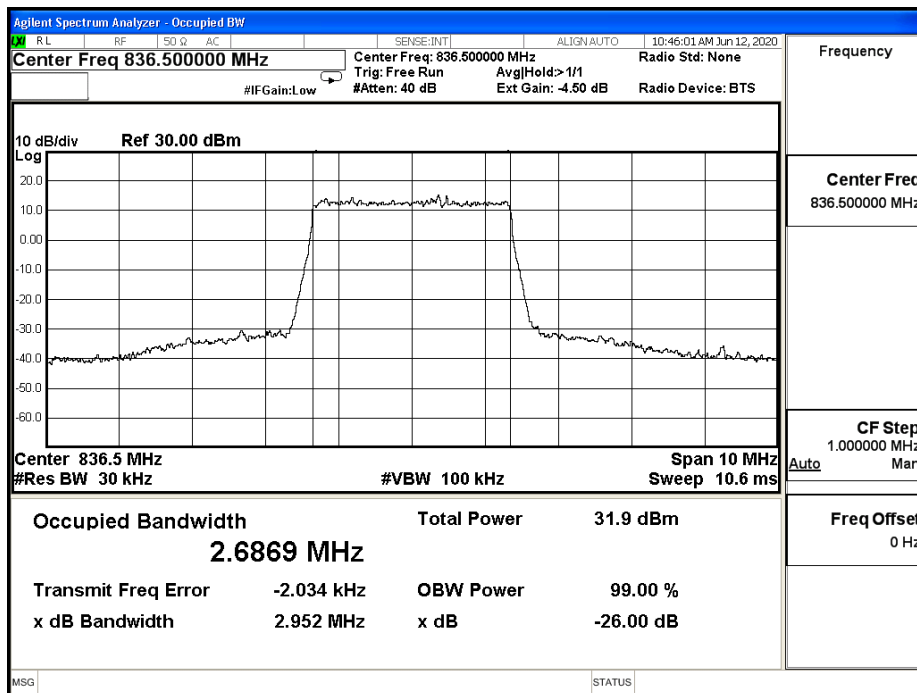
LTE_B5_CH20415_3M_64-QAM_15RB0



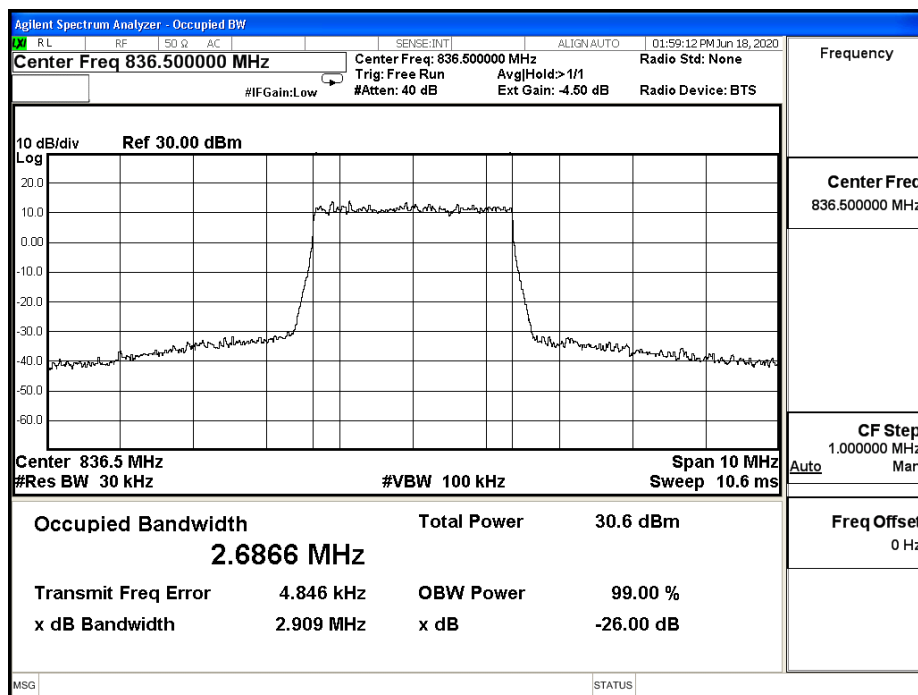
LTE_B5_CH20525_3M_QPSK_15RB0



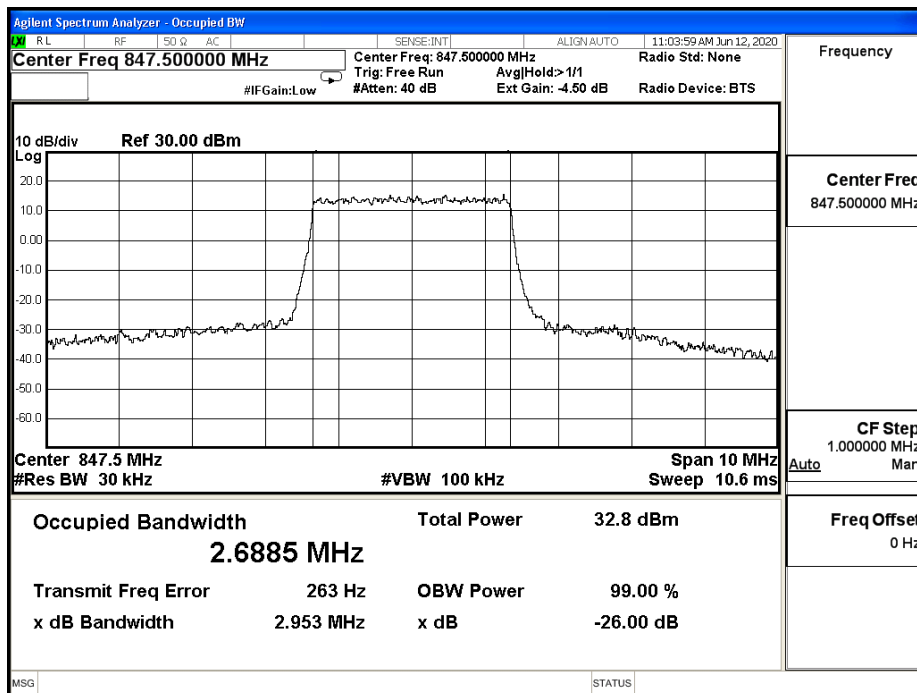
LTE_B5_CH20525_3M_16-QAM_15RB0



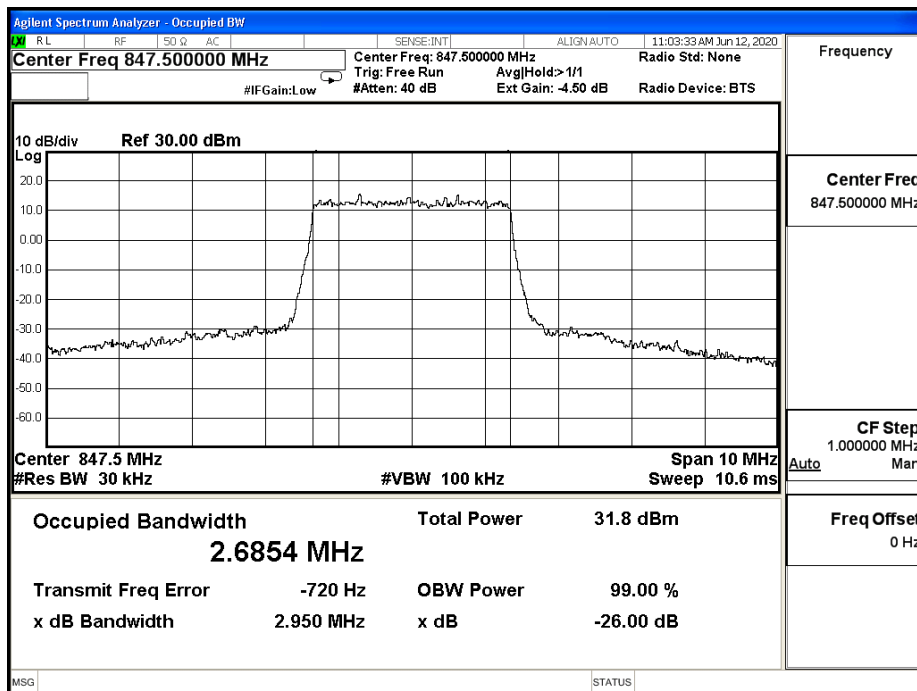
LTE_B5_CH20525_3M_64-QAM_15RB0



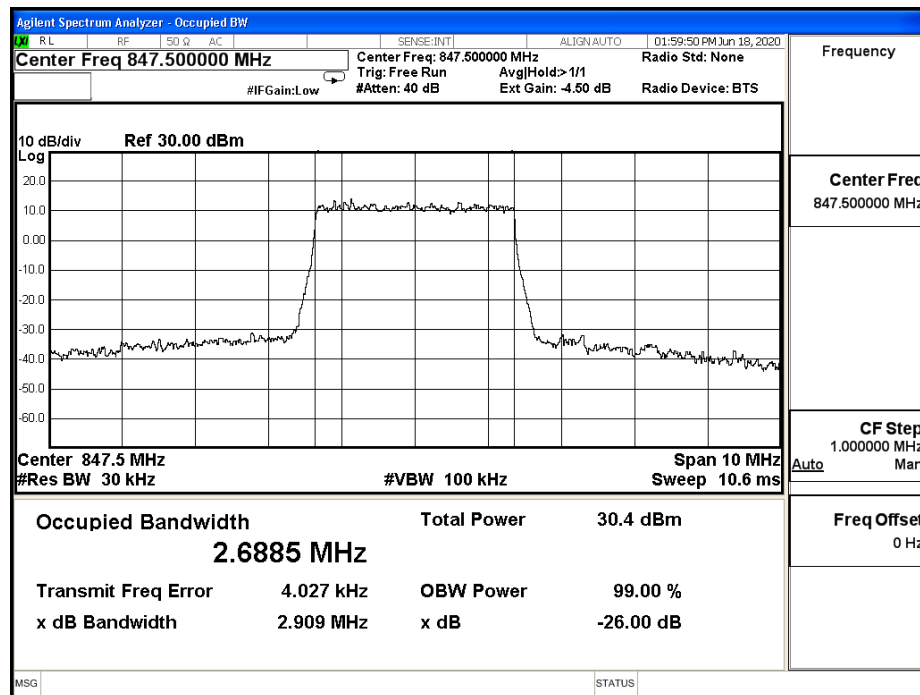
LTE_B5_CH20635_3M_QPSK_15RB0



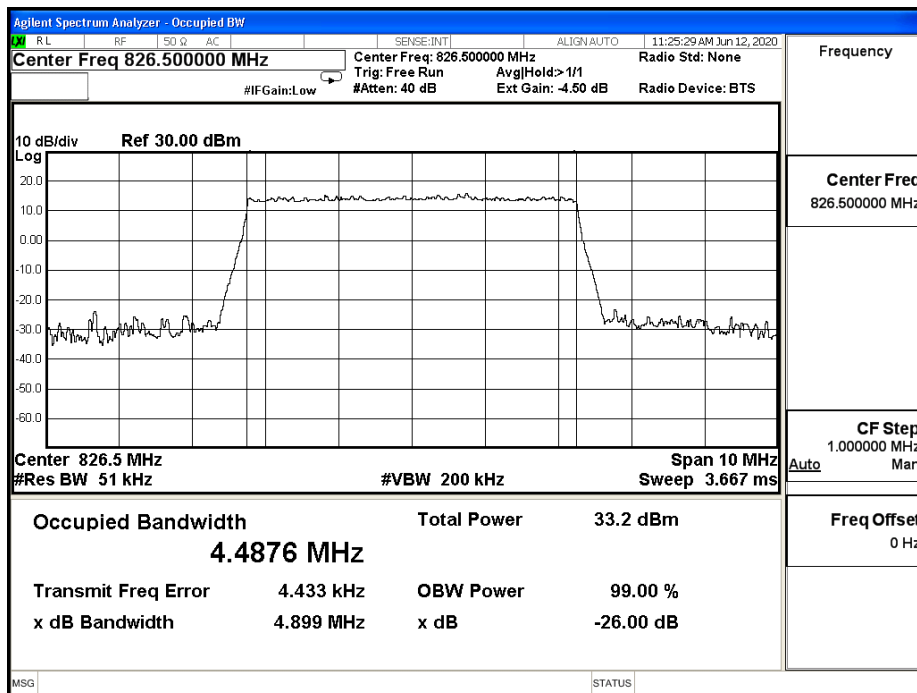
LTE_B5_CH20635_3M_16-QAM_15RB0



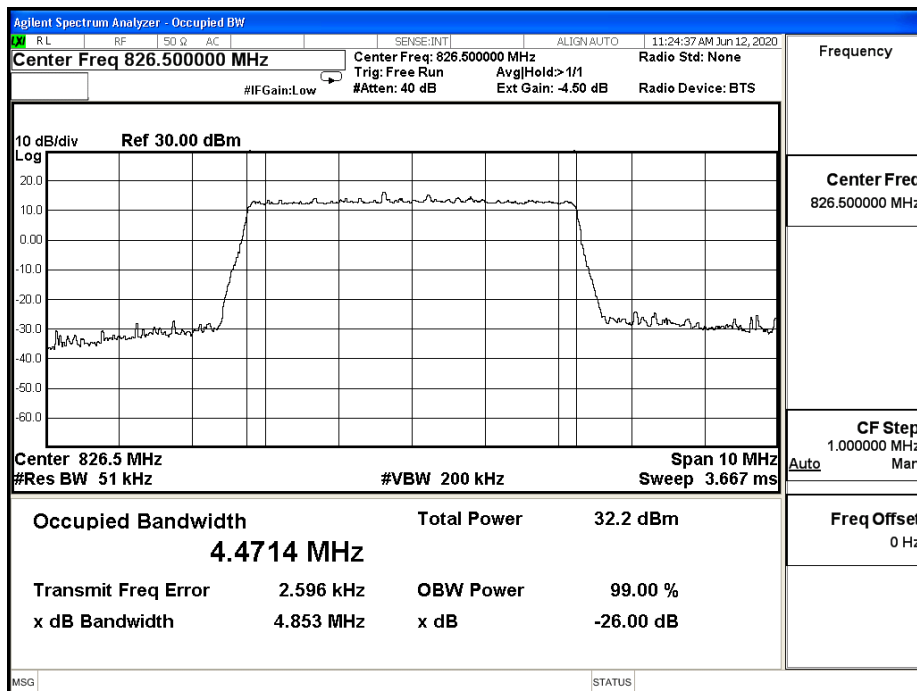
LTE_B5_CH20635_3M_64-QAM_15RB0



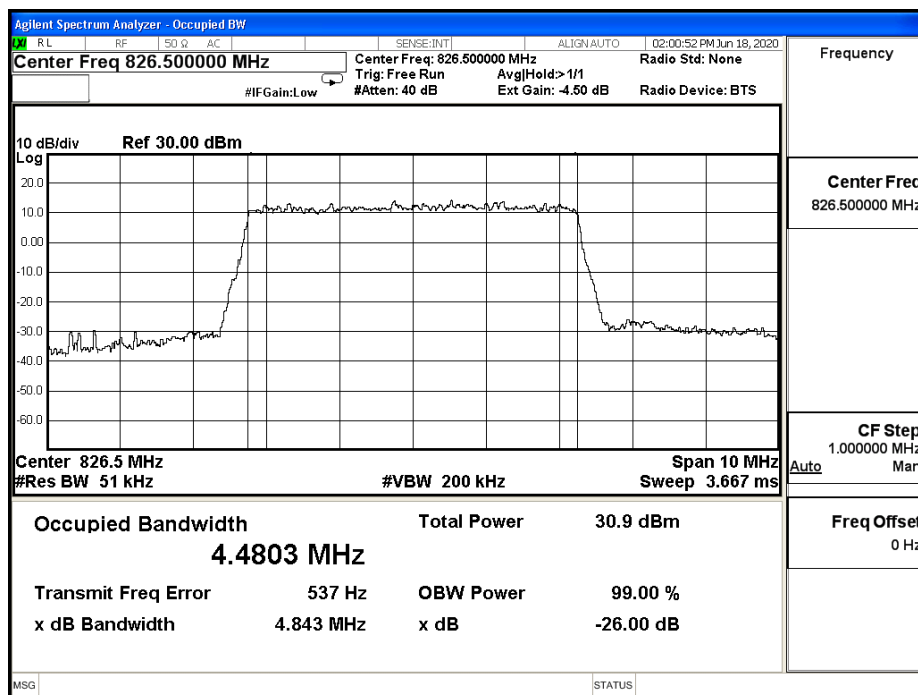
LTE_B5_CH20425_5M_QPSK_25RB0



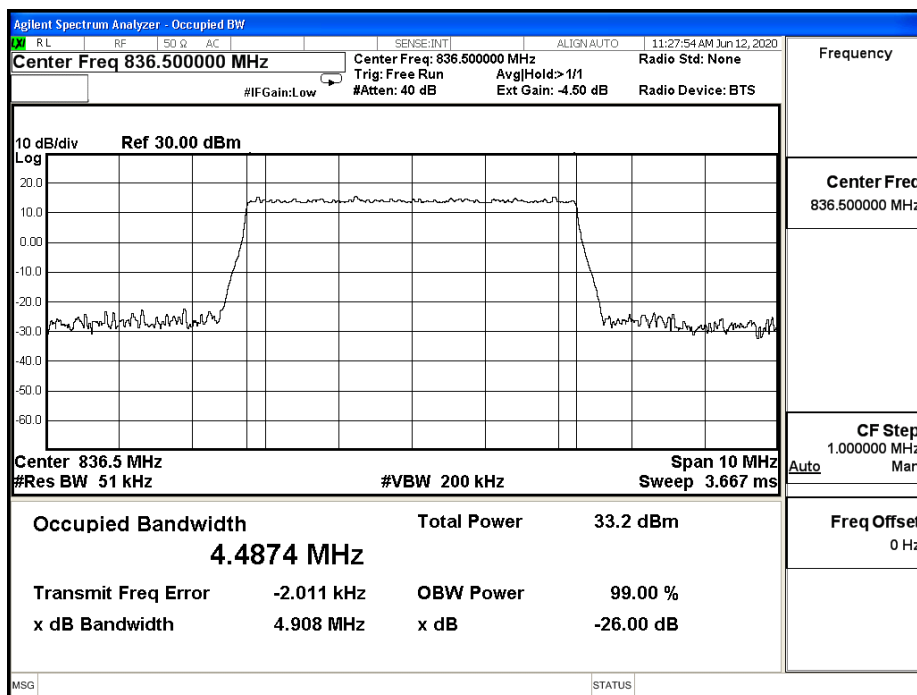
LTE_B5_CH20425_5M_16-QAM_25RB0



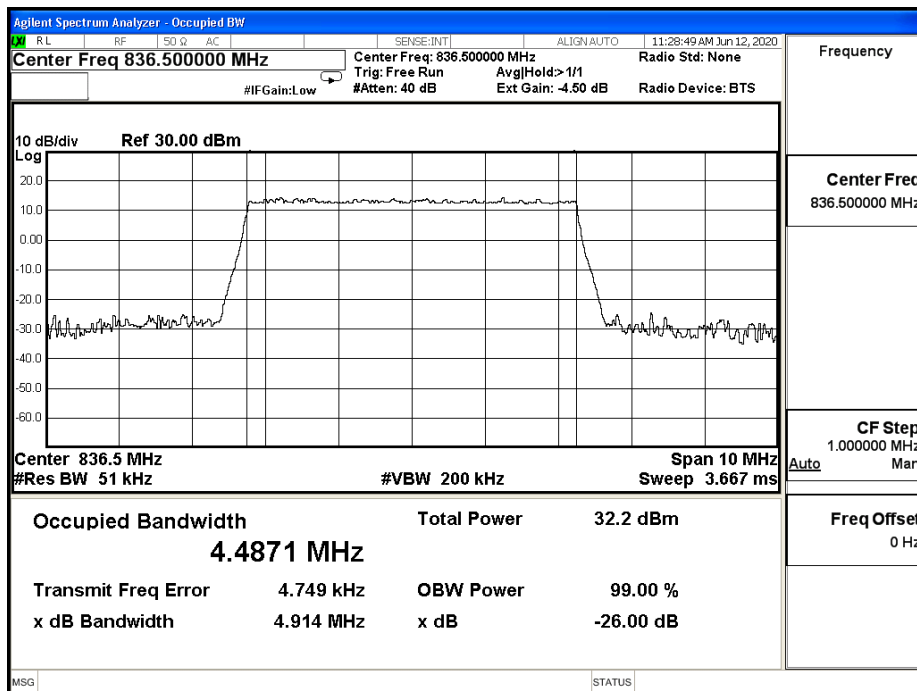
LTE_B5_CH20425_5M_64-QAM_25RB0



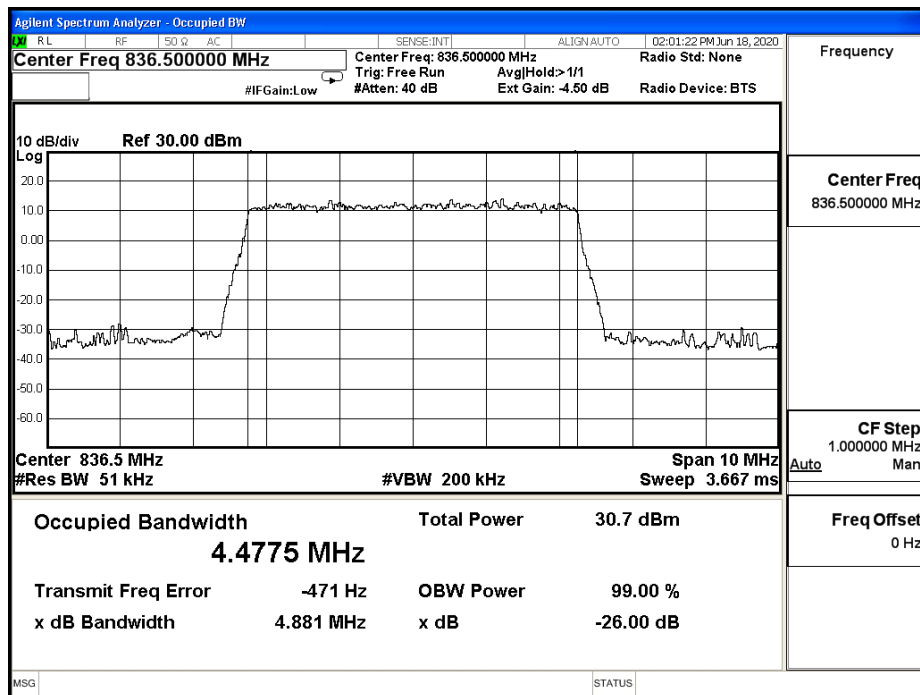
LTE_B5_CH20525_5M_QPSK_25RB0



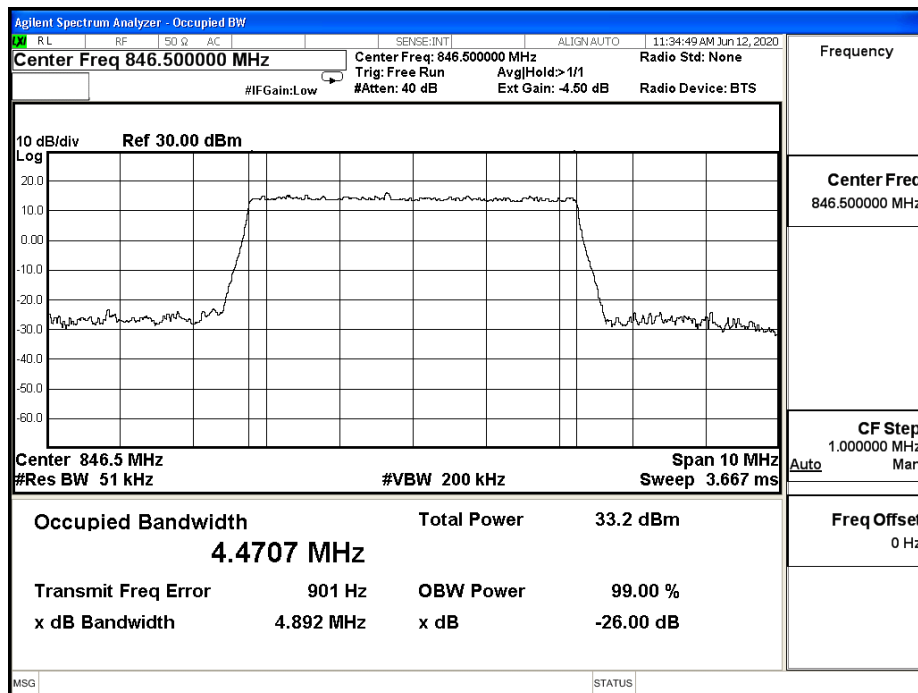
LTE_B5_CH20525_5M_16-QAM_25RB0



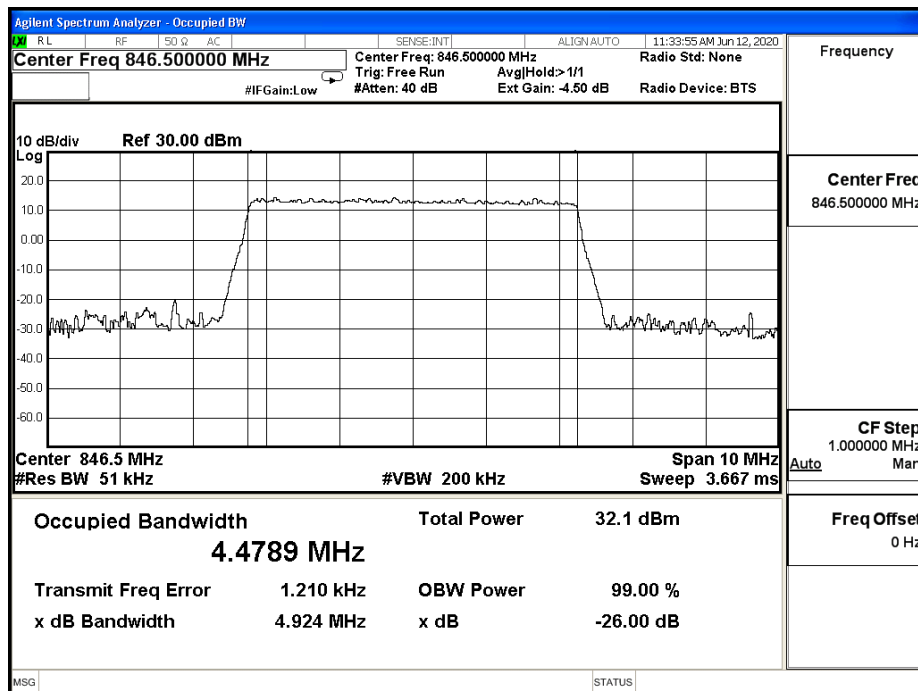
LTE_B5_CH20525_5M_64-QAM_25RB0



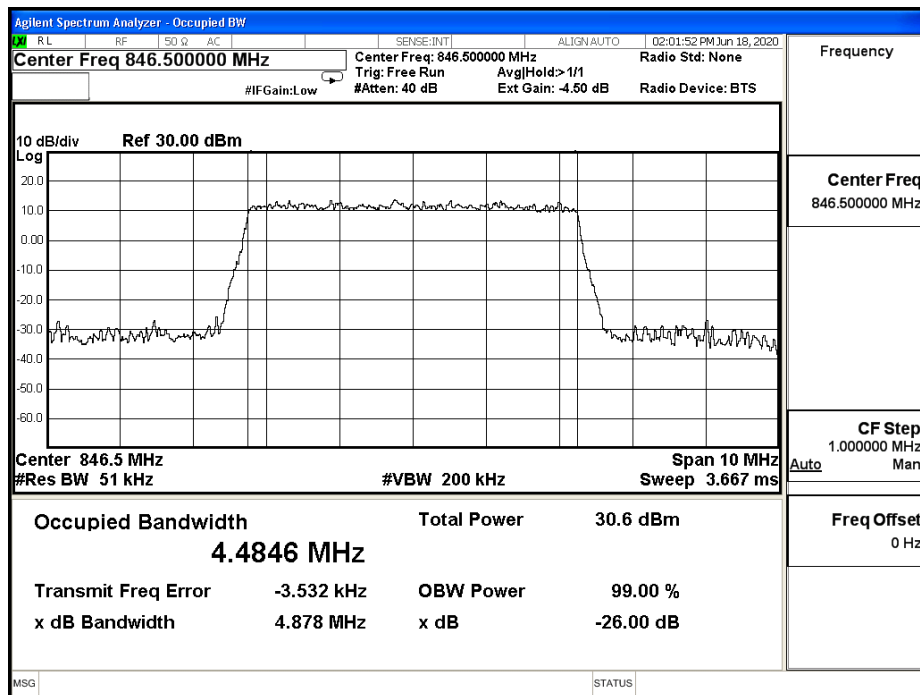
LTE_B5_CH20625_5M_QPSK_25RB0



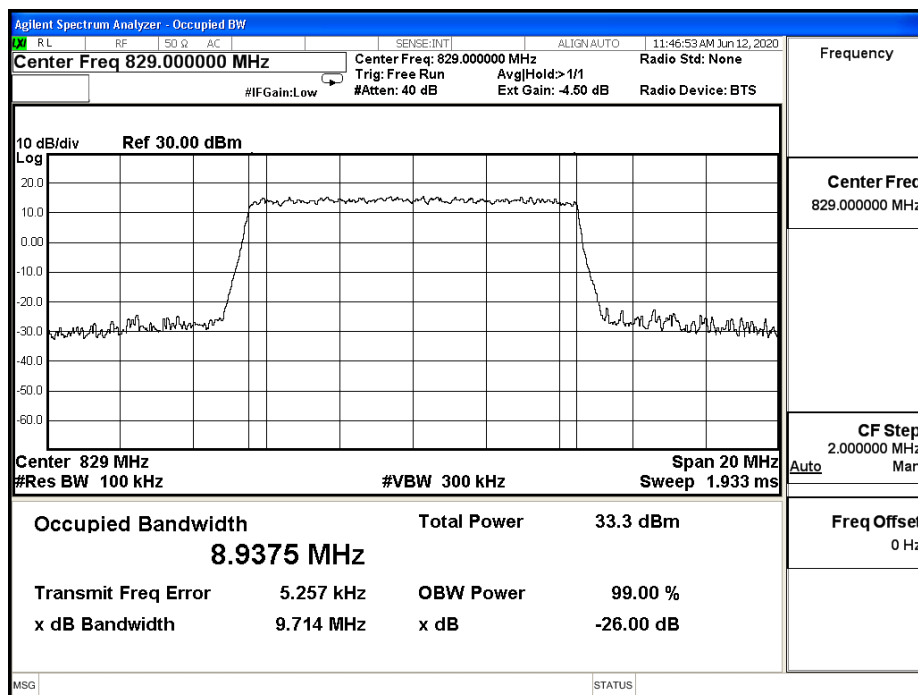
LTE_B5_CH20625_5M_16-QAM_25RB0



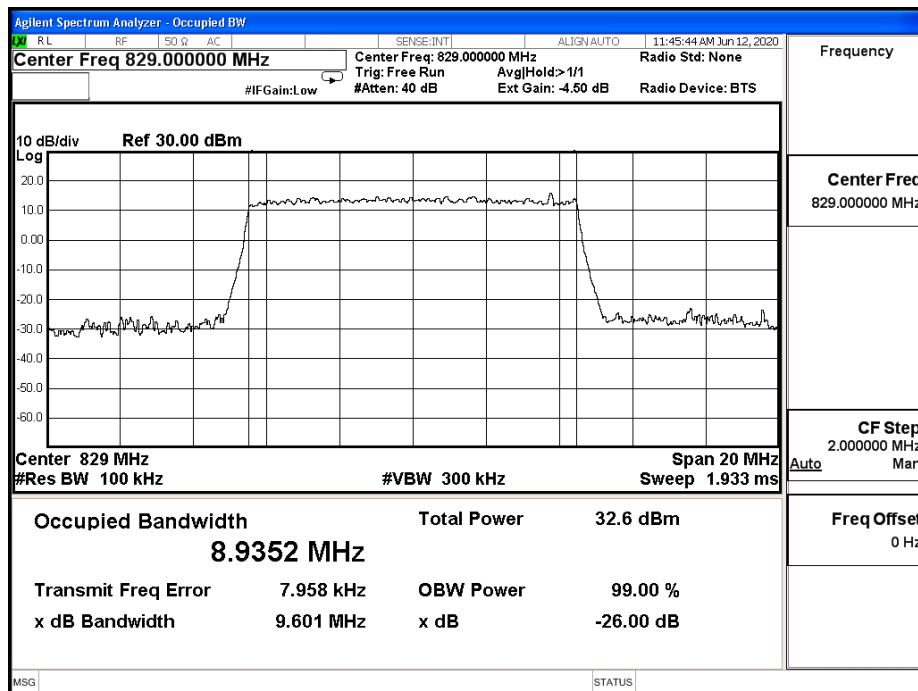
LTE_B5_CH20625_5M_64-QAM_25RB0



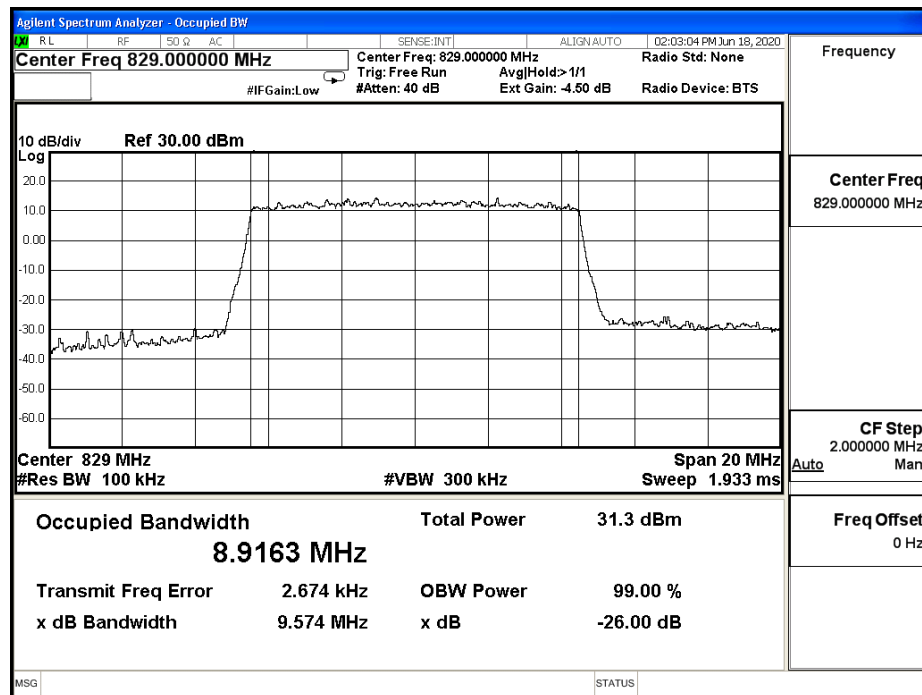
LTE_B5_CH20450_10M_QPSK_50RB0



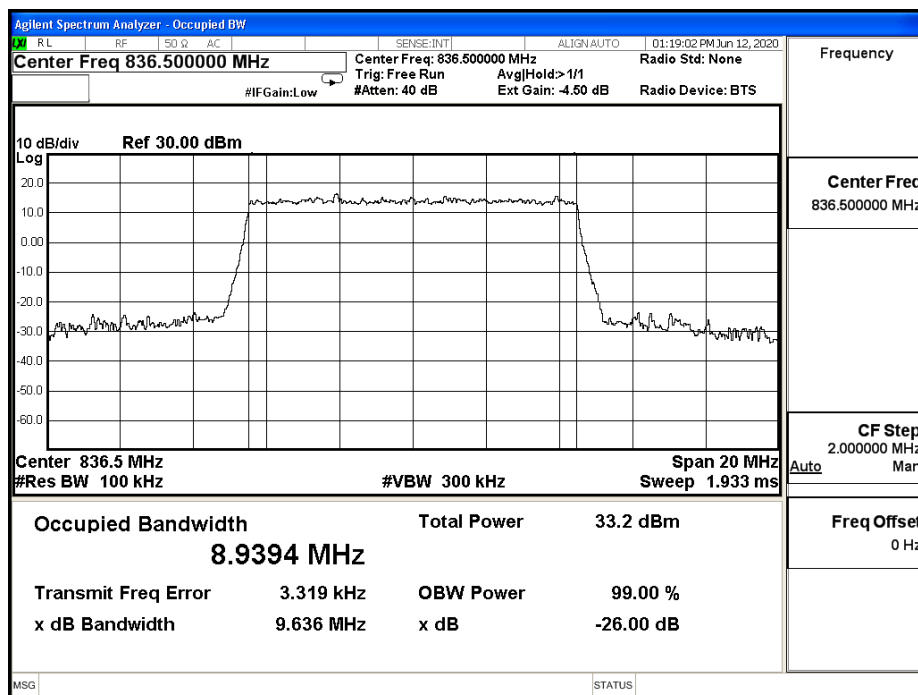
LTE_B5_CH20450_10M_16-QAM_50RB0



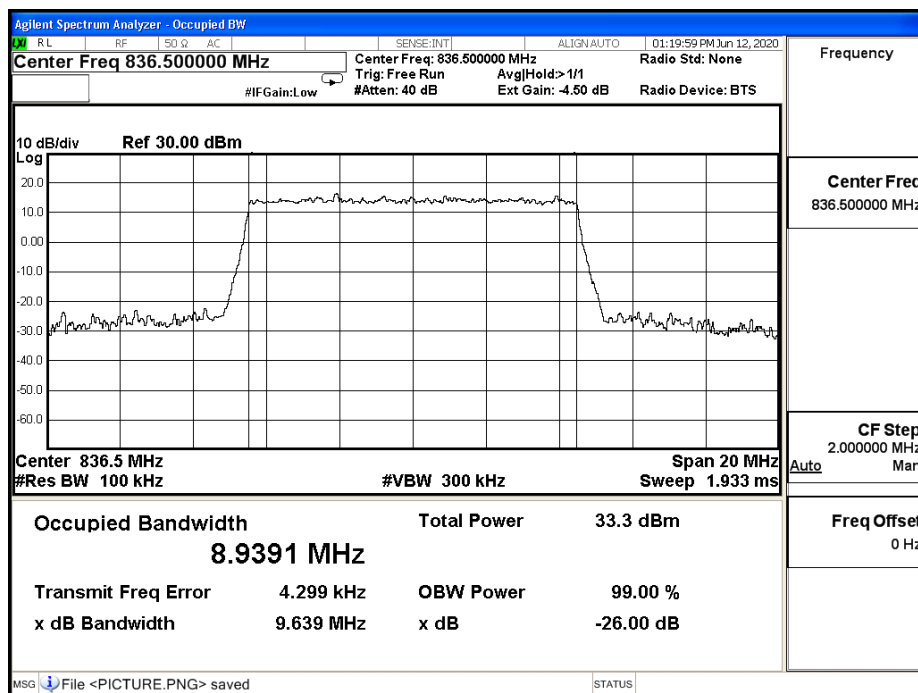
LTE_B5_CH20450_10M_64-QAM_50RB0



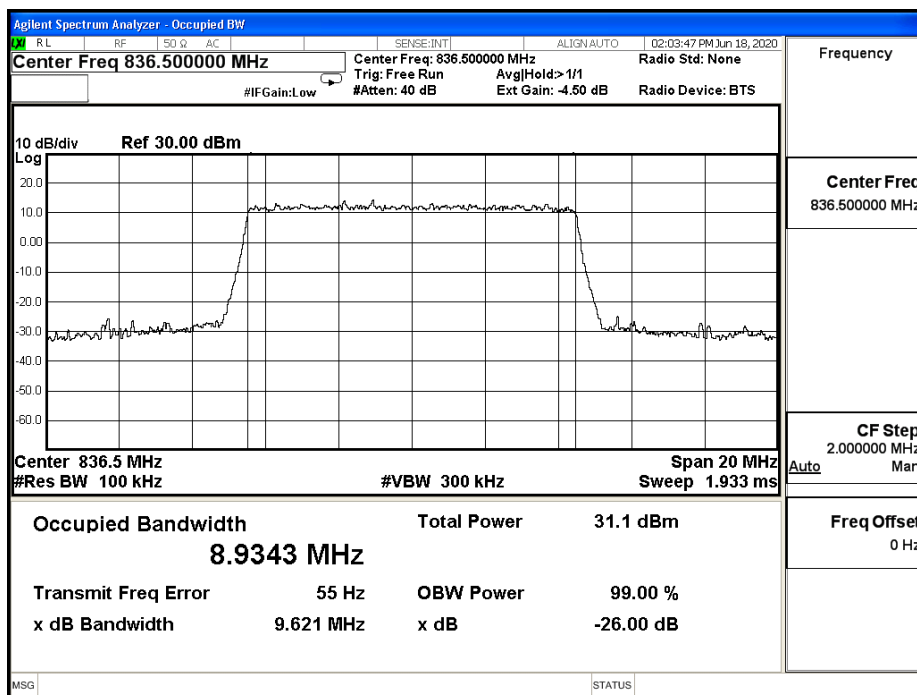
LTE_B5_CH20525_10M_QPSK_50RB0



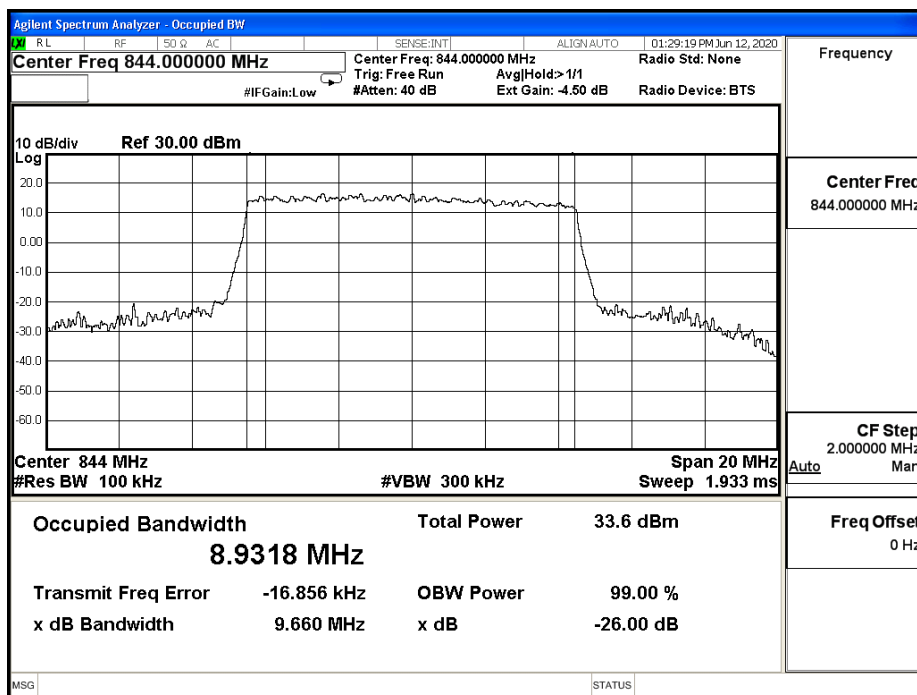
LTE_B5_CH20525_10M_16-QAM_50RB0



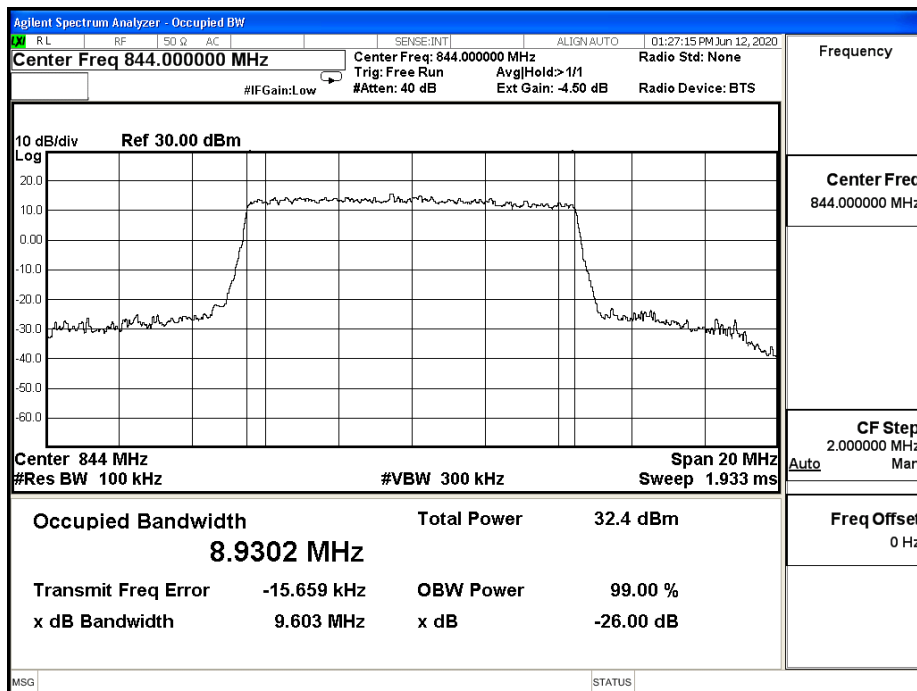
LTE_B5_CH20525_10M_64-QAM_50RB0



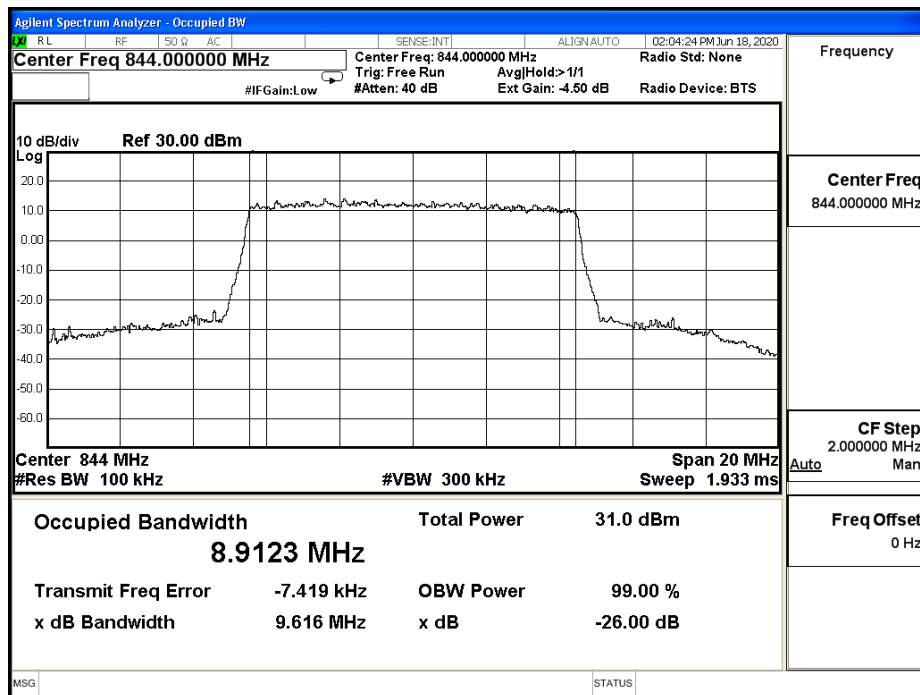
LTE_B5_CH20600_10M_QPSK_50RB0



LTE_B5_CH20600_10M_16-QAM_50RB0



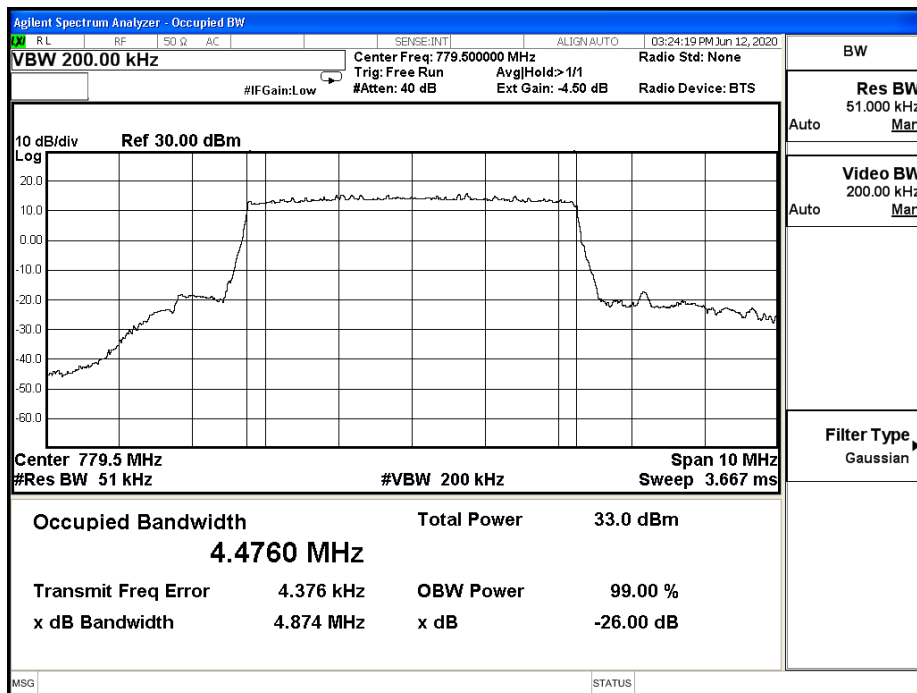
LTE_B5_CH20600_10M_64-QAM_50RB0



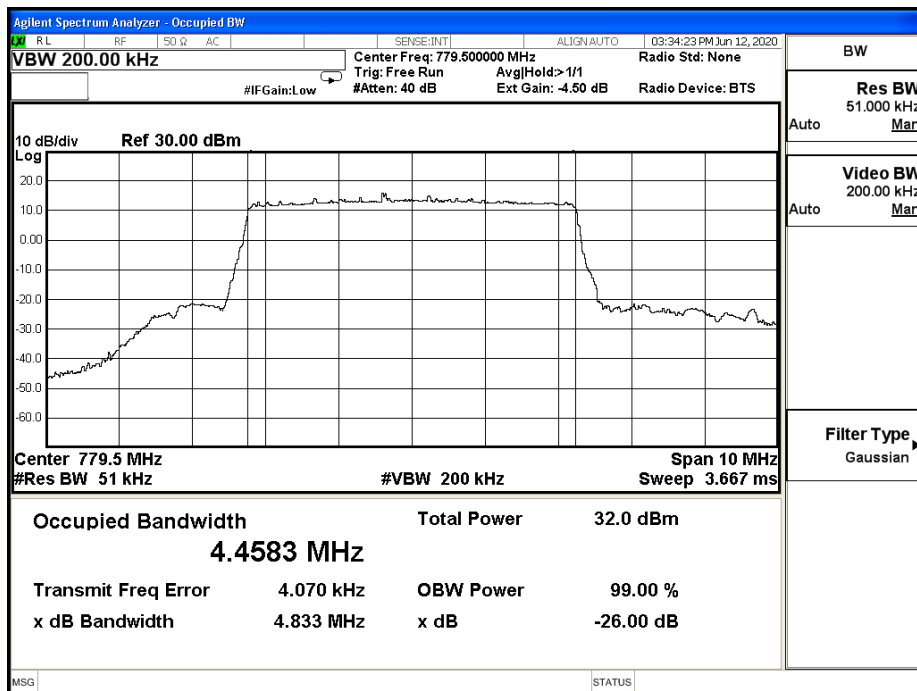
Product	LV55		
Test Item	Occupied Bandwidth		
Test Mode	Mode 3: LTE Band 13		
Date of Test	2020/06/12~2020/06/18	Test Site	SR12-H
Temperature (°C)	25	Humidity (%RH)	55

LTE Band13_Full RB					
Bandwidth (MHz)	Modulation	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
			26dB BW	99% BW	
5M	QPSK	779.5	4.874	4.476	N/A
		782	4.903	4.491	N/A
		784.5	4.909	4.467	N/A
	16-QAM	779.5	4.833	4.458	N/A
		782	4.900	4.493	N/A
		784.5	4.932	4.480	N/A
	64-QAM	779.5	4.855	4.471	N/A
		782	4.895	4.488	N/A
		784.5	4.882	4.485	N/A
10M	QPSK	782	9.722	8.936	N/A
	16-QAM	782	9.555	8.934	N/A
	64-QAM	782	9.600	8.916	N/A

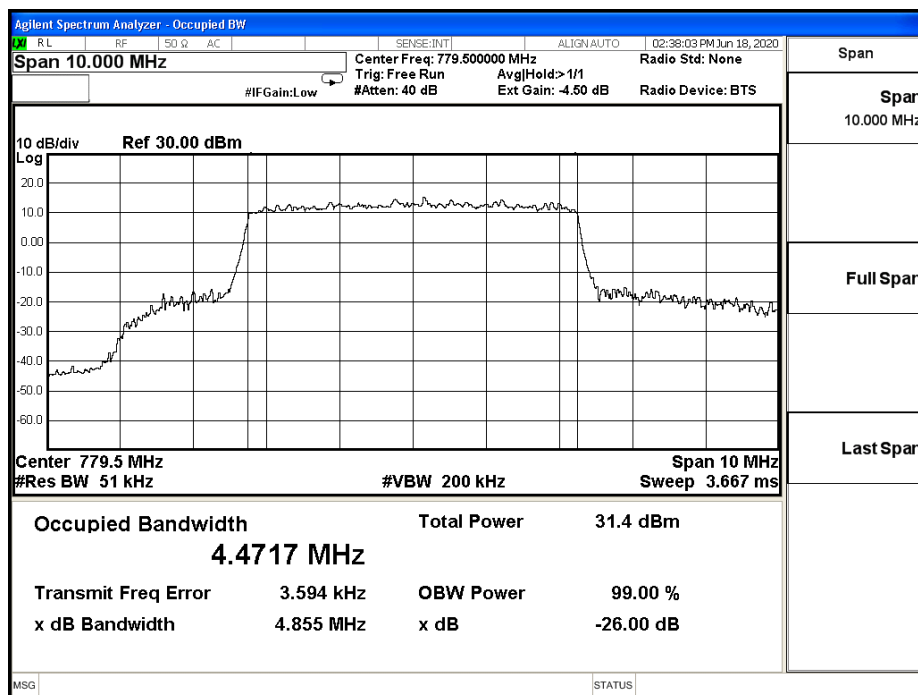
LTE_B13_CH23205_5M_QPSK_25RB0



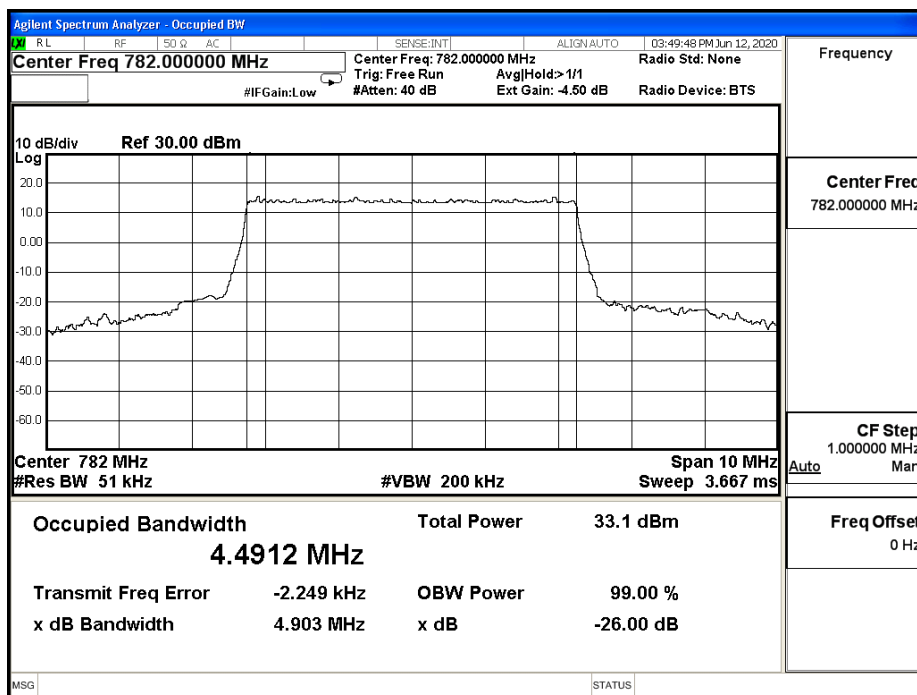
LTE_B13_CH23205_5M_16-QAM_25RB0



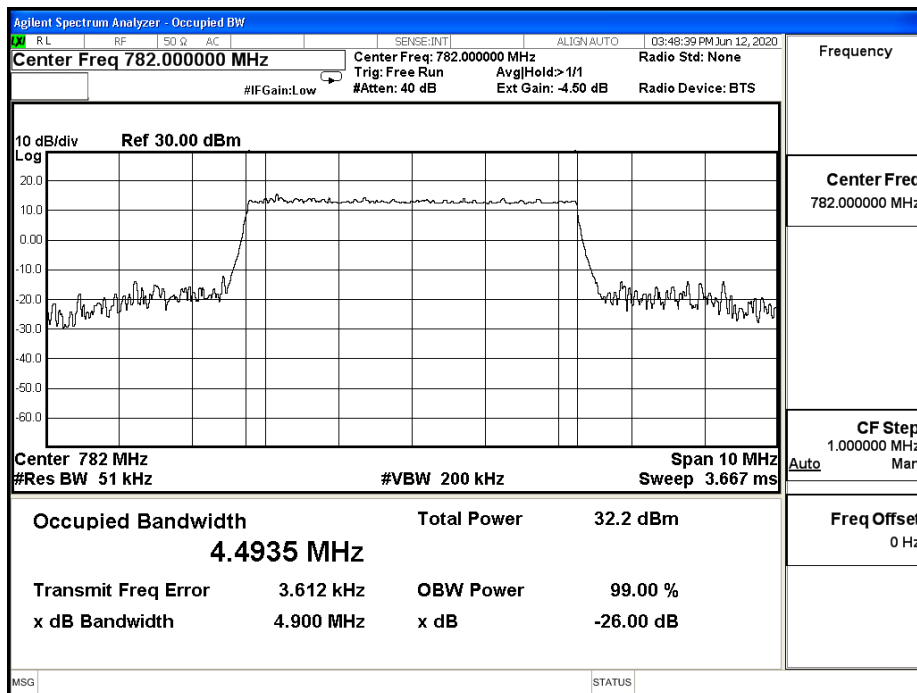
LTE_B13_CH23205_5M_64-QAM_25RB0



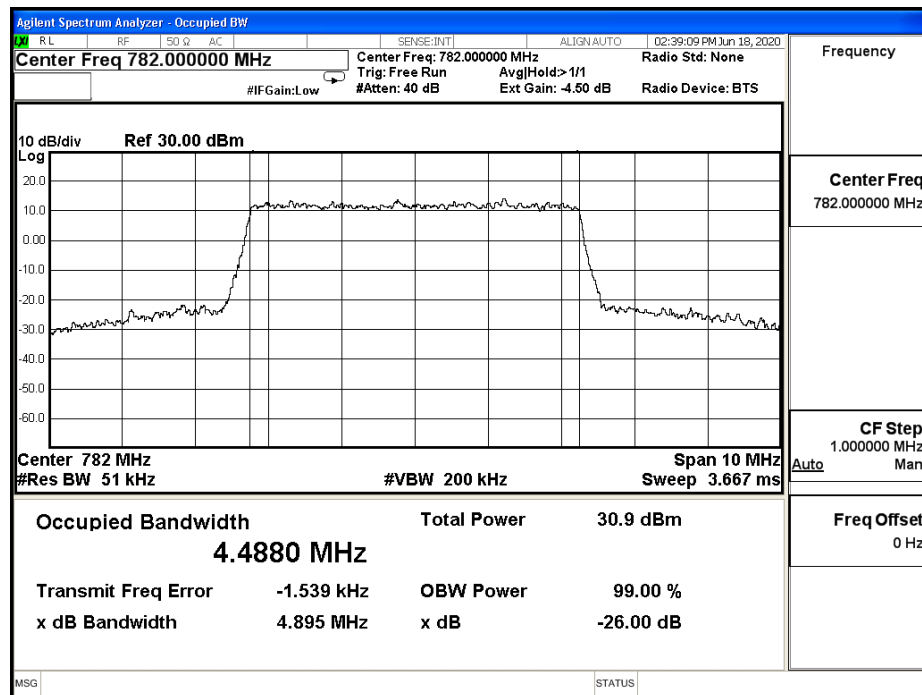
LTE_B13_CH23230_5M_QPSK_25RB0



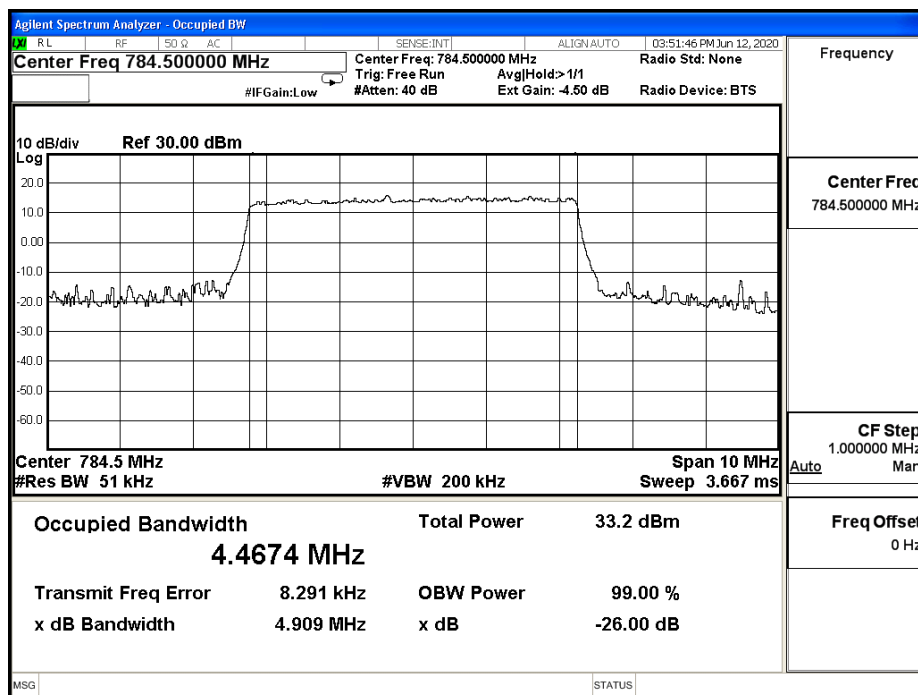
LTE_B13_CH23230_5M_16-QAM_25RB0



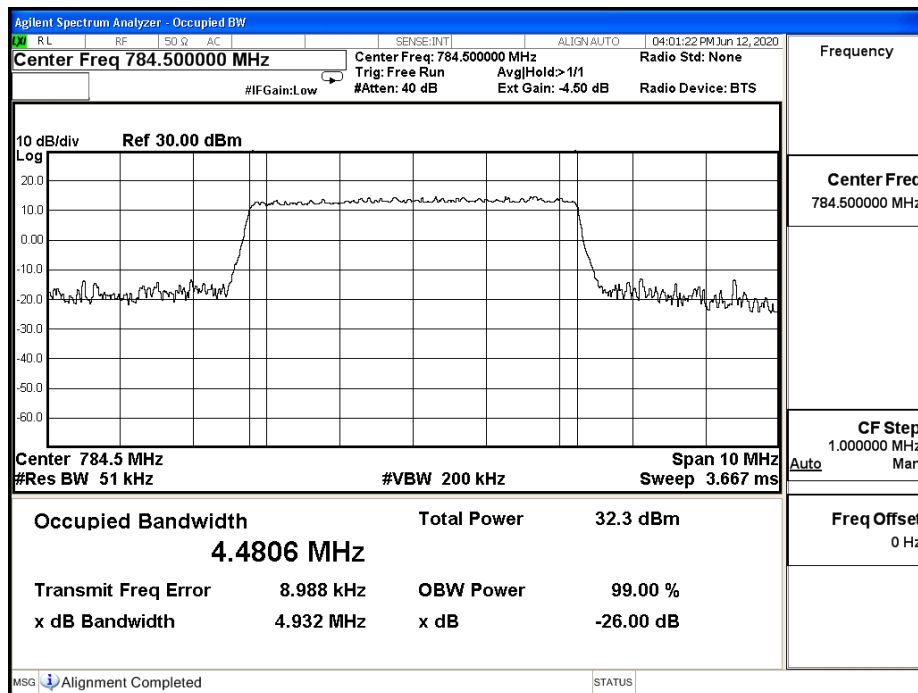
LTE_B13_CH23230_5M_64-QAM_25RB0



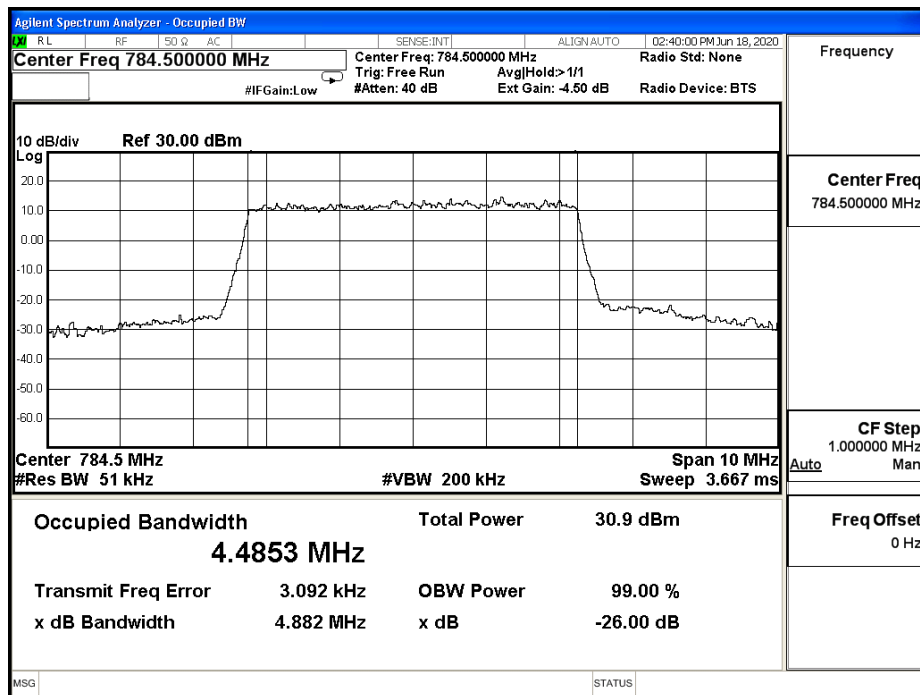
LTE_B13_CH23255_5M_QPSK_25RB0



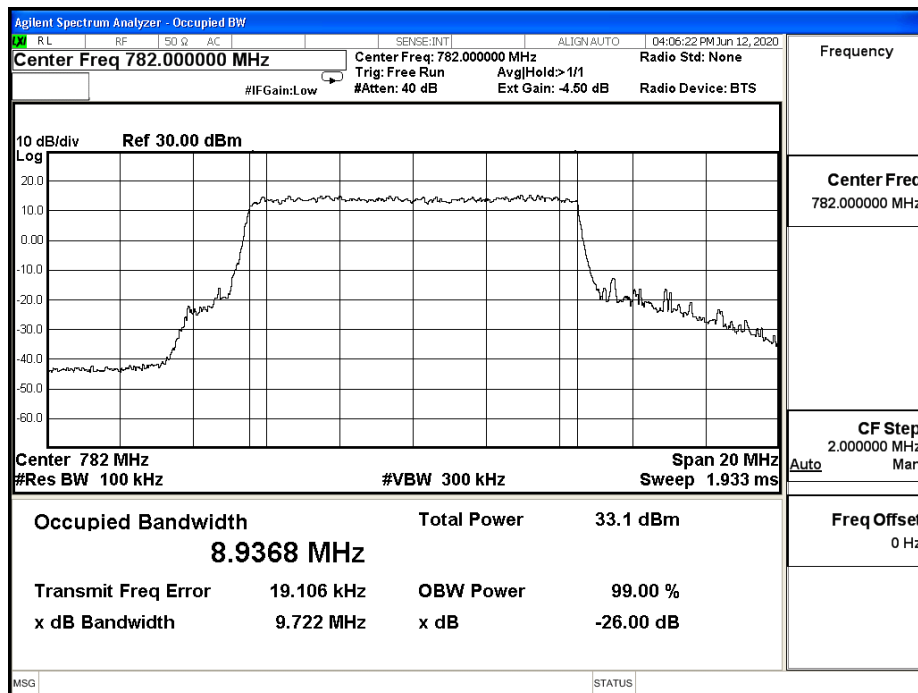
LTE_B13_CH23255_5M_16-QAM_25RB0



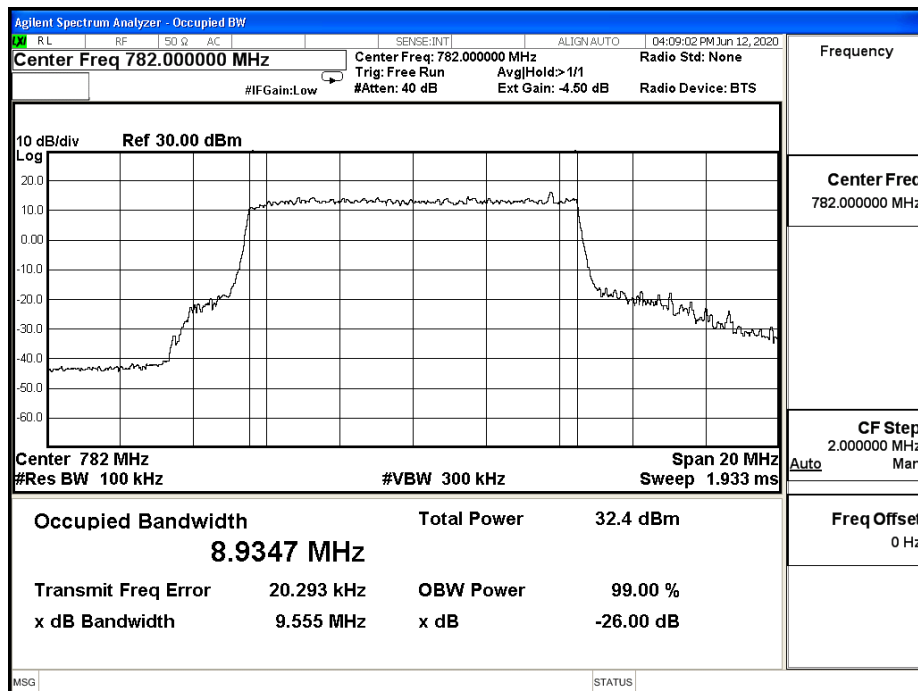
LTE_B13_CH23255_5M_64-QAM_25RB0



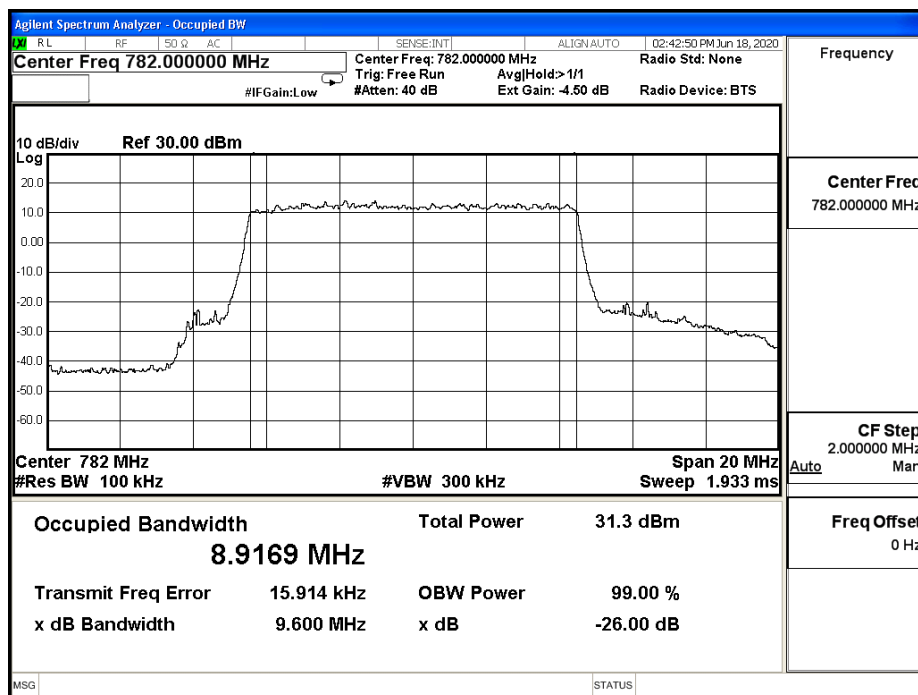
LTE_B13_CH23230_10M_QPSK_50RB0



LTE_B13_CH23230_10M_16-QAM_50RB0



LTE_B13_CH23230_10M_64-QAM_50RB0

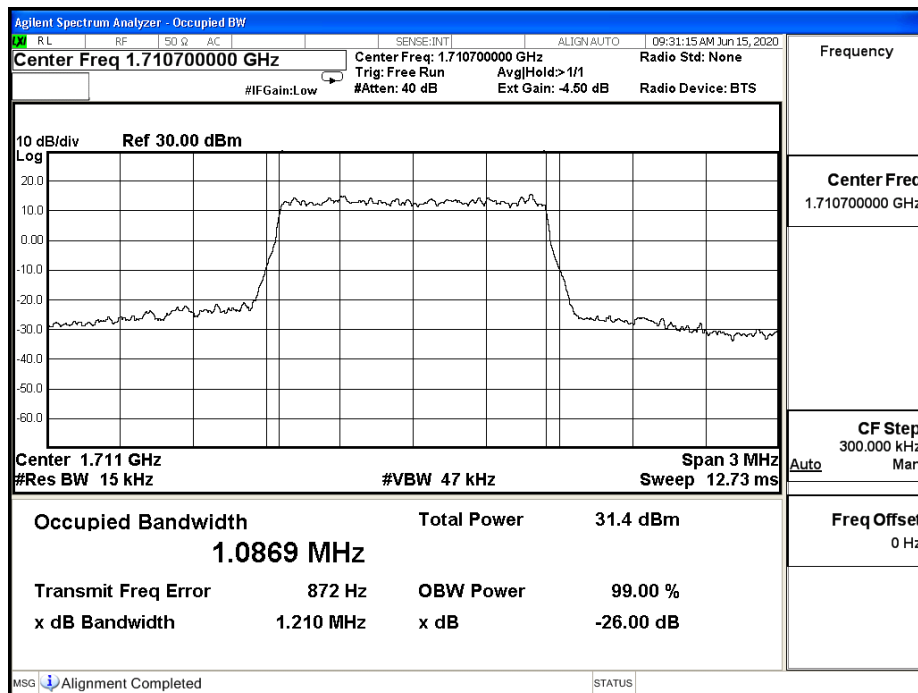


Product	LV55		
Test Item	Occupied Bandwidth		
Test Mode	Mode 4: LTE Band 66		
Date of Test	2020/06/15~2020/06/18	Test Site	SR12-H
Temperature (°C)	26	Humidity (%RH)	55

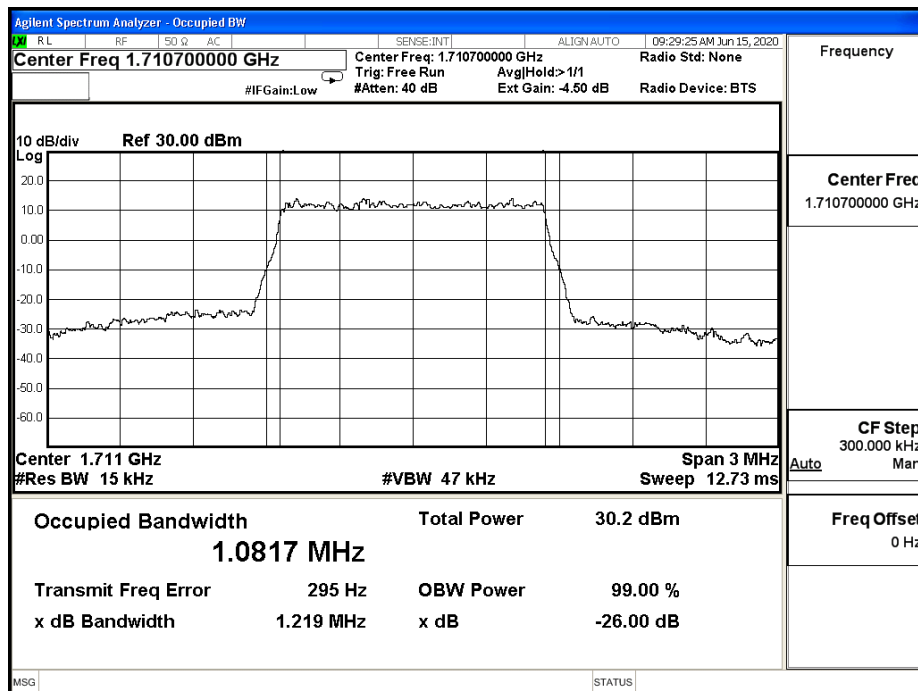
LTE Band66_Full RB					
Bandwidth (MHz)	Modulation	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
			26dB BW	99% BW	
1.4M	QPSK	1710.7	1.210	1.086	N/A
		1745	1.217	1.079	N/A
		1779.3	1.216	1.079	N/A
	16-QAM	1710.7	1.219	1.081	N/A
		1745	1.228	1.081	N/A
		1779.3	1.202	1.079	N/A
	64-QAM	1710.7	1.211	1.079	N/A
		1745	1.211	1.079	N/A
		1779.3	1.212	1.079	N/A
3M	QPSK	1711.5	2.947	2.689	N/A
		1745	2.946	2.694	N/A
		1778.5	2.935	2.690	N/A
	16-QAM	1711.5	2.957	2.688	N/A
		1745	2.949	2.688	N/A
		1778.5	2.951	2.686	N/A
	64-QAM	1711.5	2.914	2.686	N/A
		1745	2.913	2.685	N/A
		1778.5	2.918	2.686	N/A
5M	QPSK	1712.5	4.899	4.491	N/A
		1745	4.895	4.487	N/A
		1777.5	4.893	4.469	N/A
	16-QAM	1712.5	4.854	4.475	N/A
		1745	4.915	4.487	N/A
		1777.5	4.908	4.478	N/A
	64-QAM	1712.5	4.884	4.485	N/A
		1745	4.899	4.480	N/A
		1777.5	4.890	4.484	N/A

LTE Band66_Full RB					
Bandwidth (MHz)	Modulation	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
			26dB BW	99% BW	
10M	QPSK	1715	9.710	8.950	N/A
		1745	9.733	8.953	N/A
		1775	9.690	8.956	N/A
	16-QAM	1715	9.575	8.945	N/A
		1745	9.578	8.946	N/A
		1775	9.714	8.956	N/A
	64-QAM	1715	9.611	8.933	N/A
		1745	9.607	8.929	N/A
		1775	9.660	8.946	N/A
15M	QPSK	1717.5	14.550	13.447	N/A
		1745	14.510	13.432	N/A
		1772.5	14.530	13.469	N/A
	16-QAM	1717.5	14.450	13.424	N/A
		1745	14.550	13.435	N/A
		1772.5	14.450	13.450	N/A
	64-QAM	1717.5	14.510	13.411	N/A
		1745	14.480	13.419	N/A
		1772.5	14.490	13.442	N/A
20M	QPSK	1720	19.000	17.830	N/A
		1745	19.130	17.895	N/A
		1770	19.490	17.935	N/A
	16-QAM	1720	19.180	17.888	N/A
		1745	19.550	17.925	N/A
		1770	19.390	17.906	N/A
	64-QAM	1720	19.340	17.850	N/A
		1745	19.170	17.895	N/A
		1770	19.180	17.883	N/A

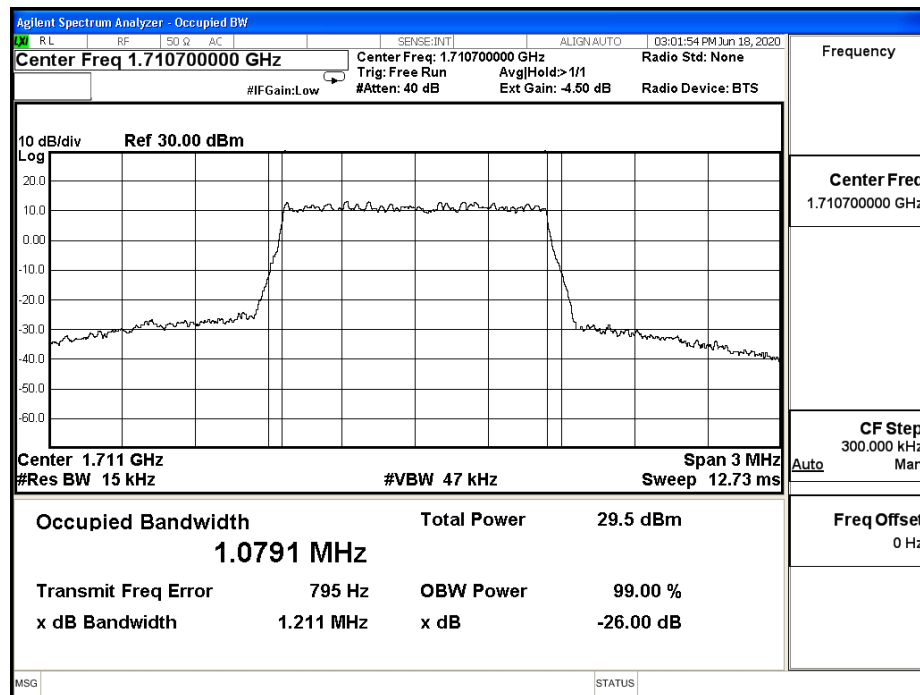
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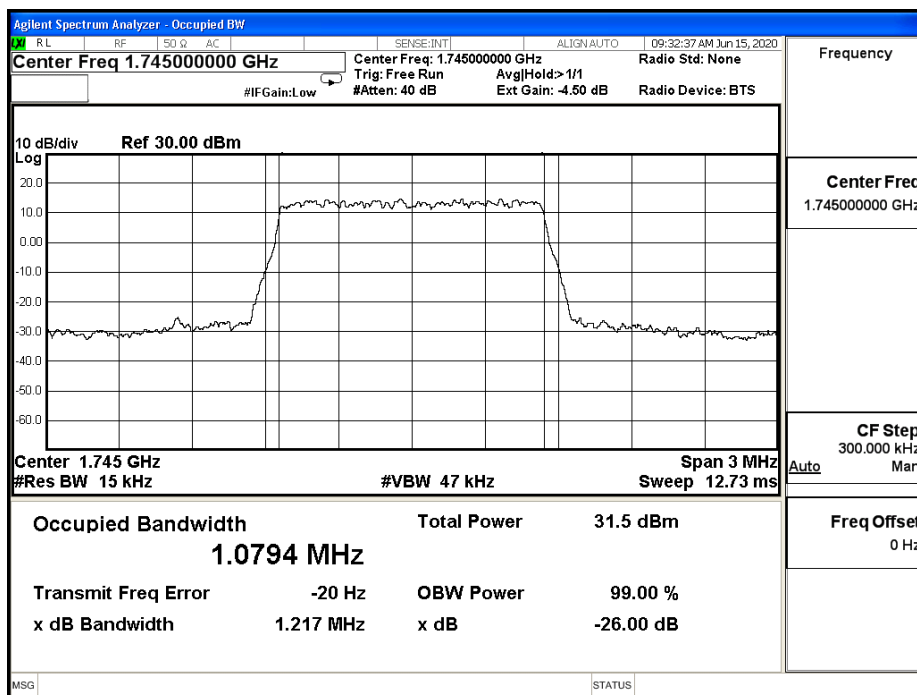
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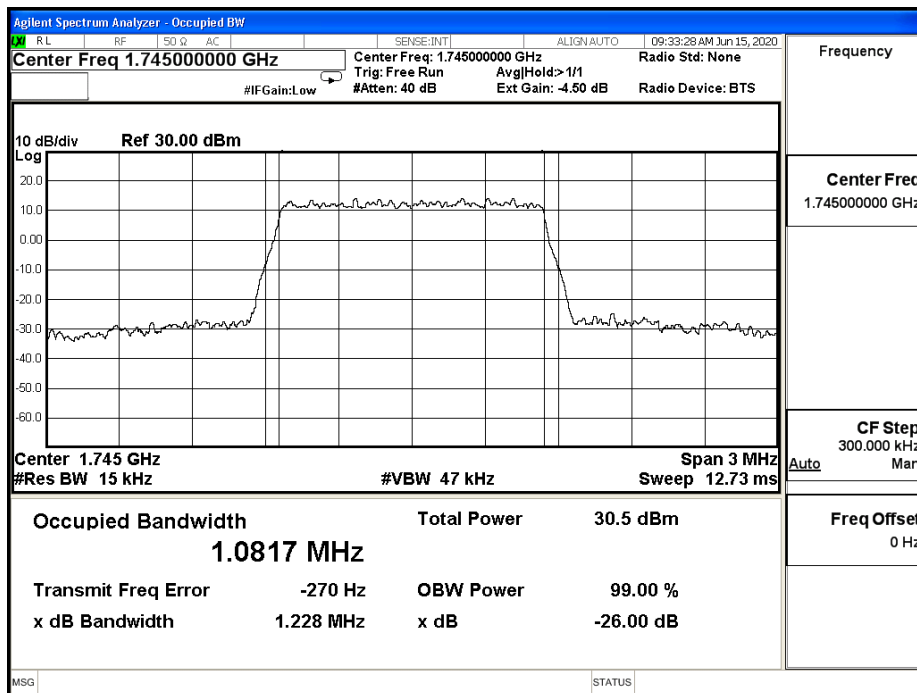
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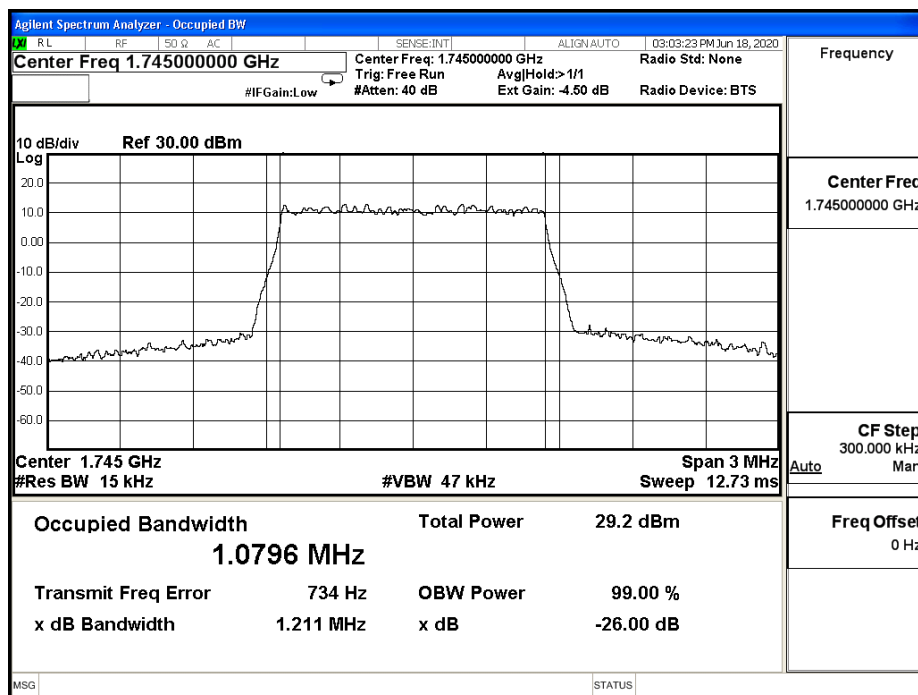
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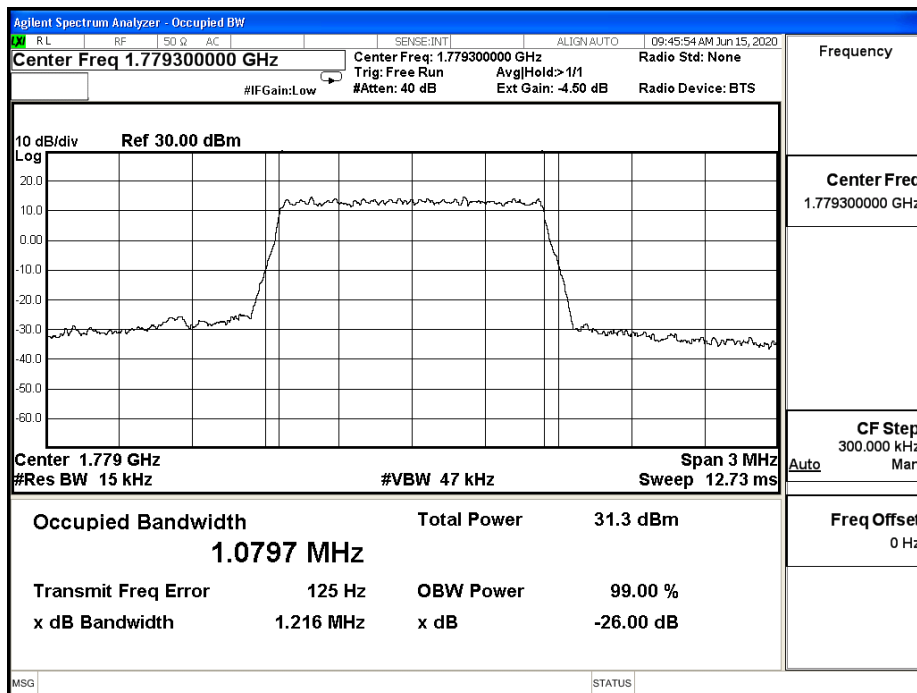
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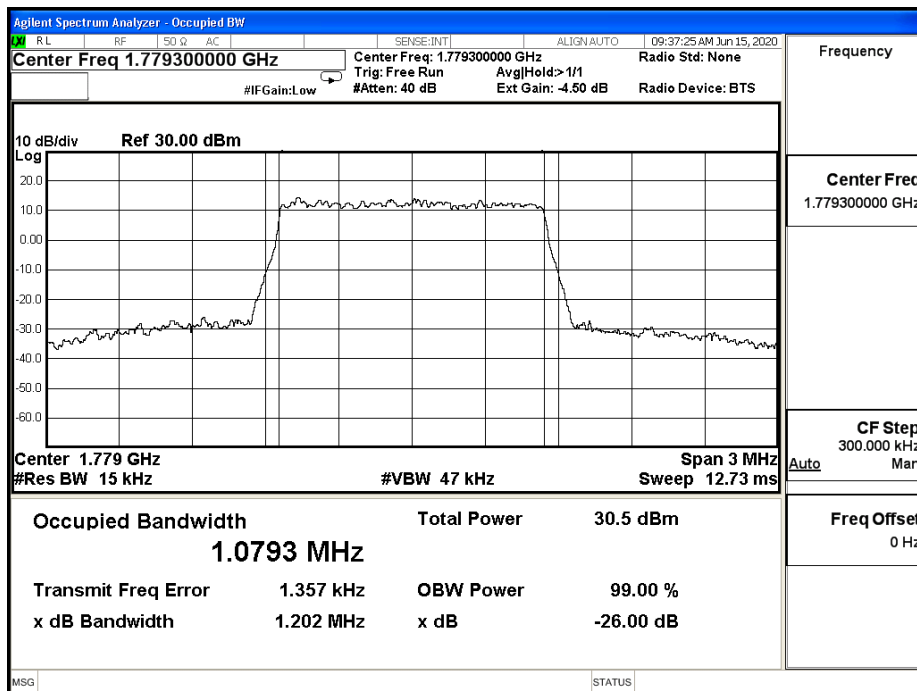
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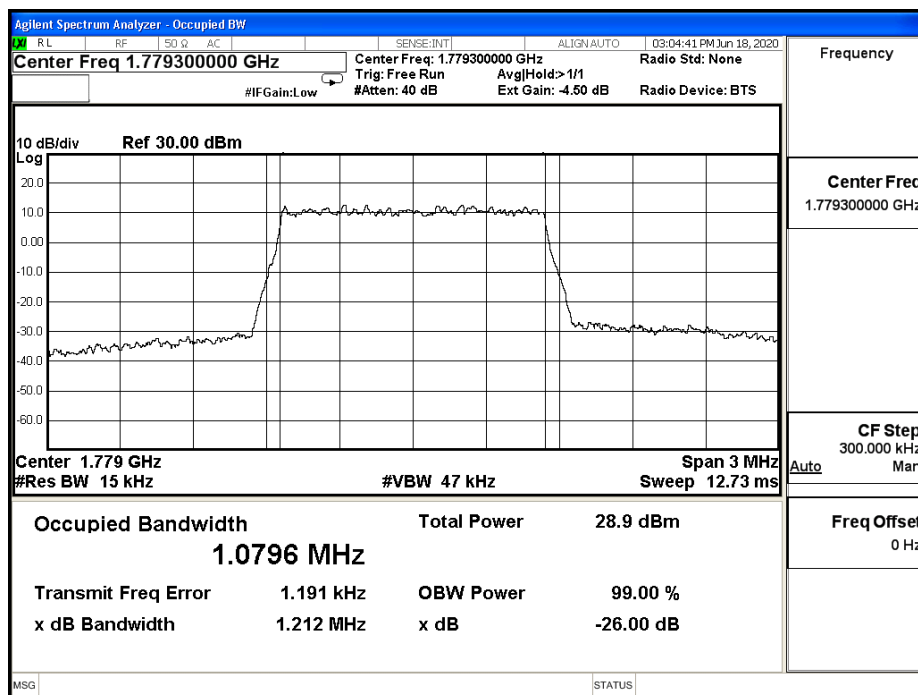
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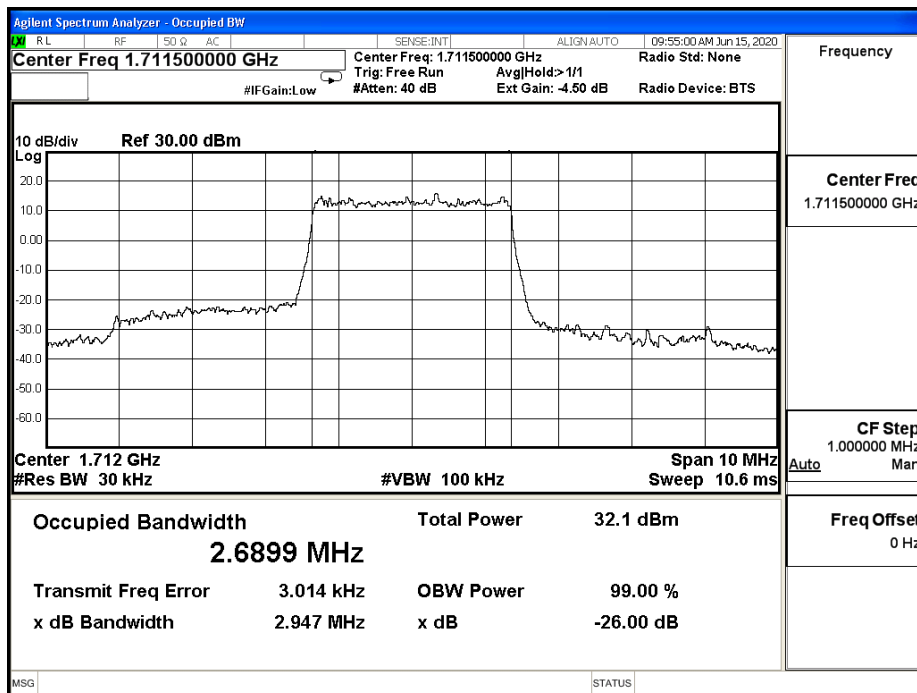
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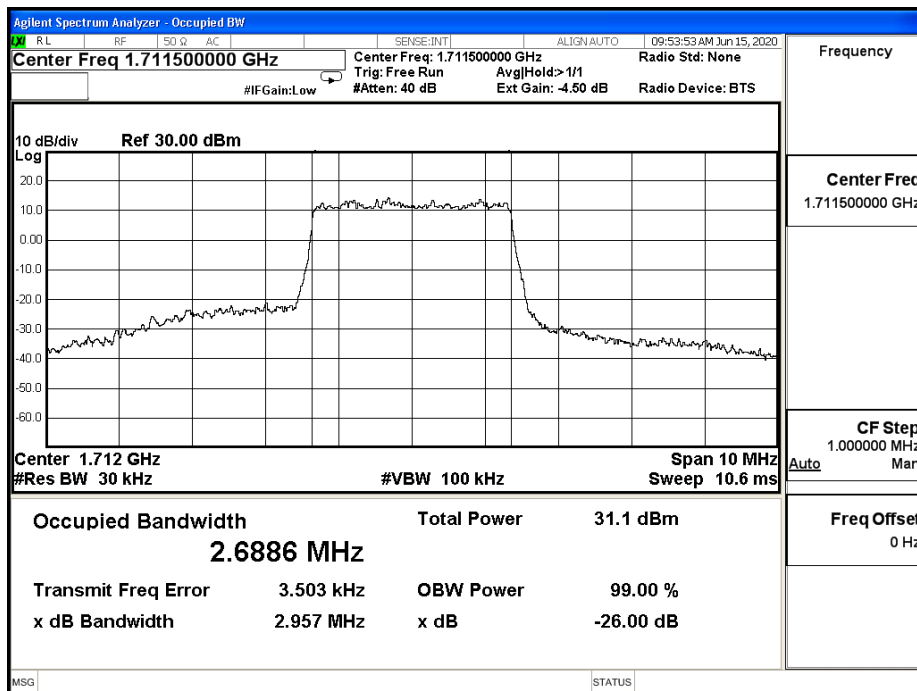
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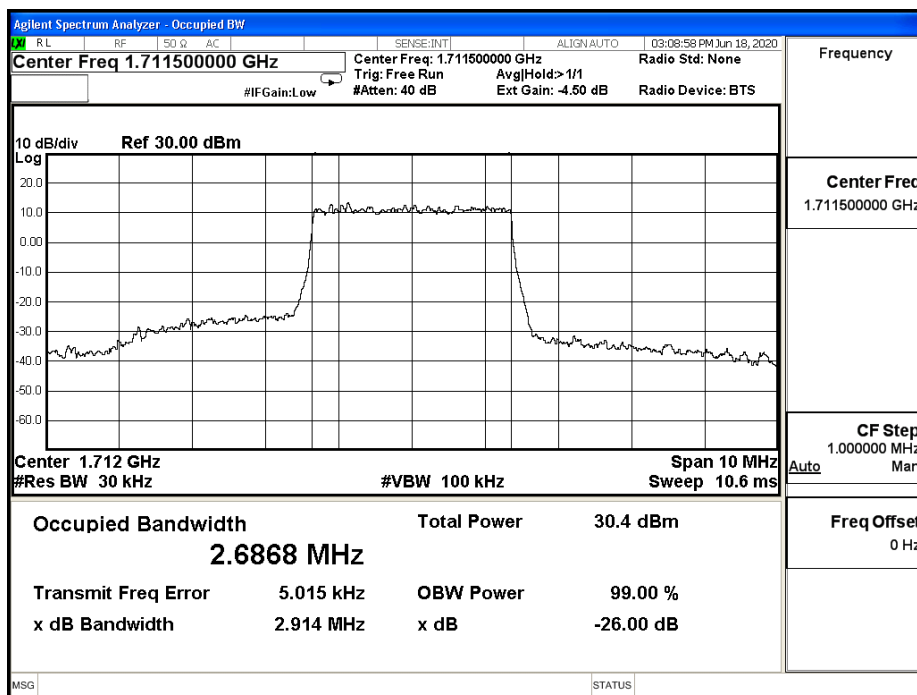
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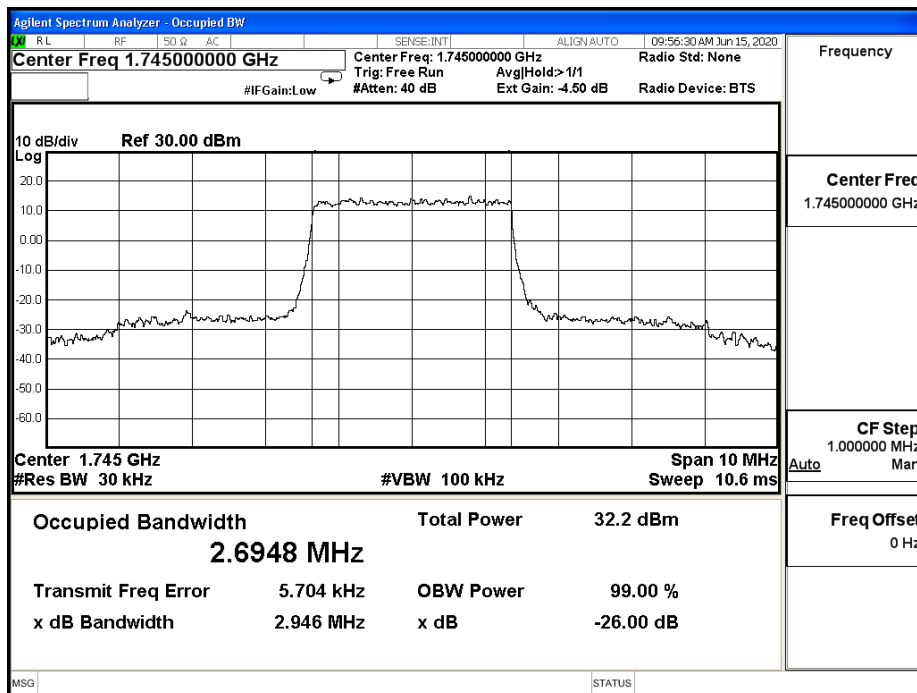
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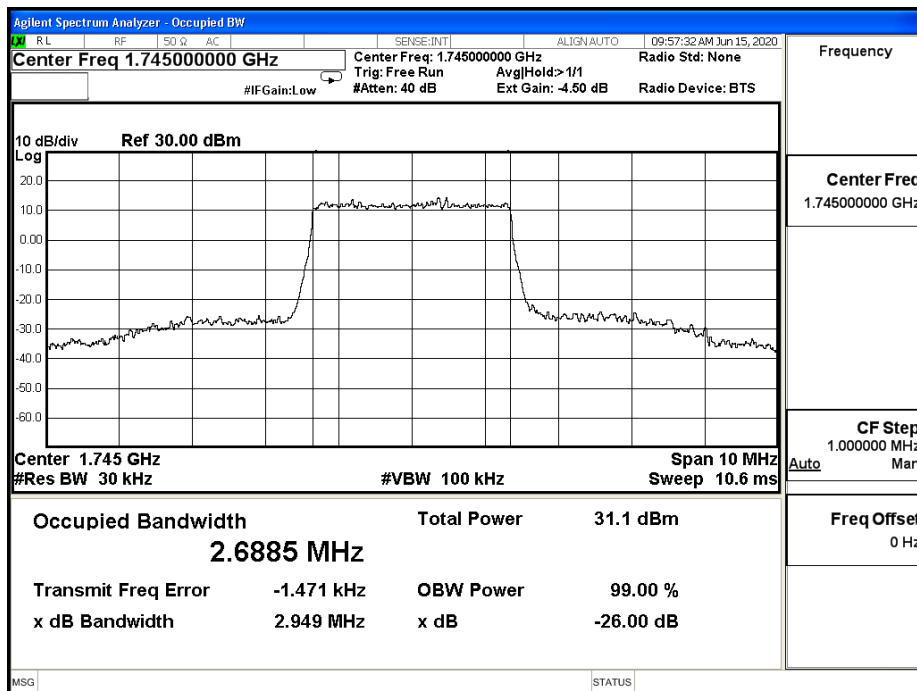
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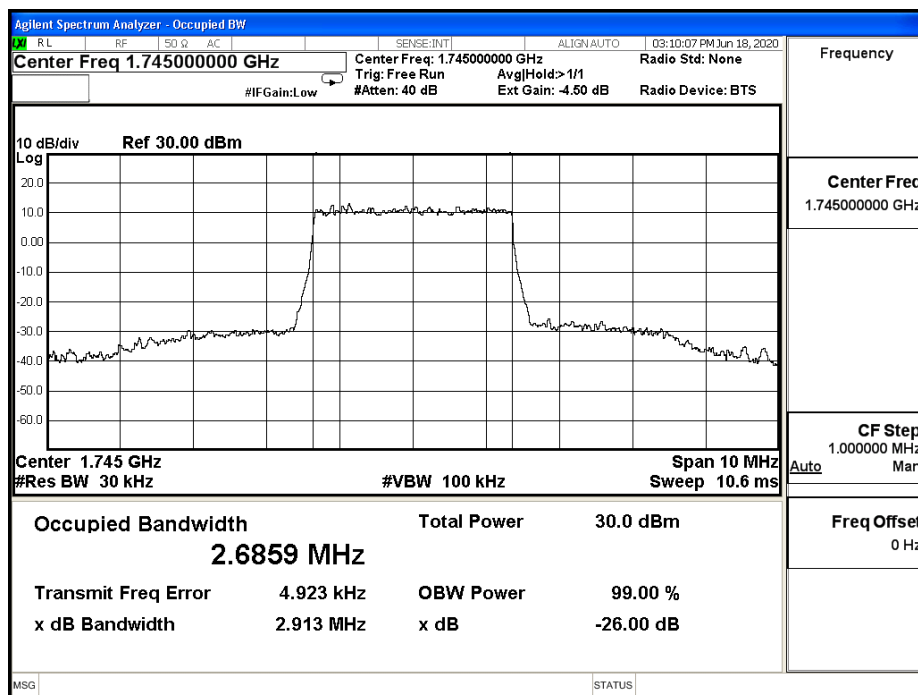
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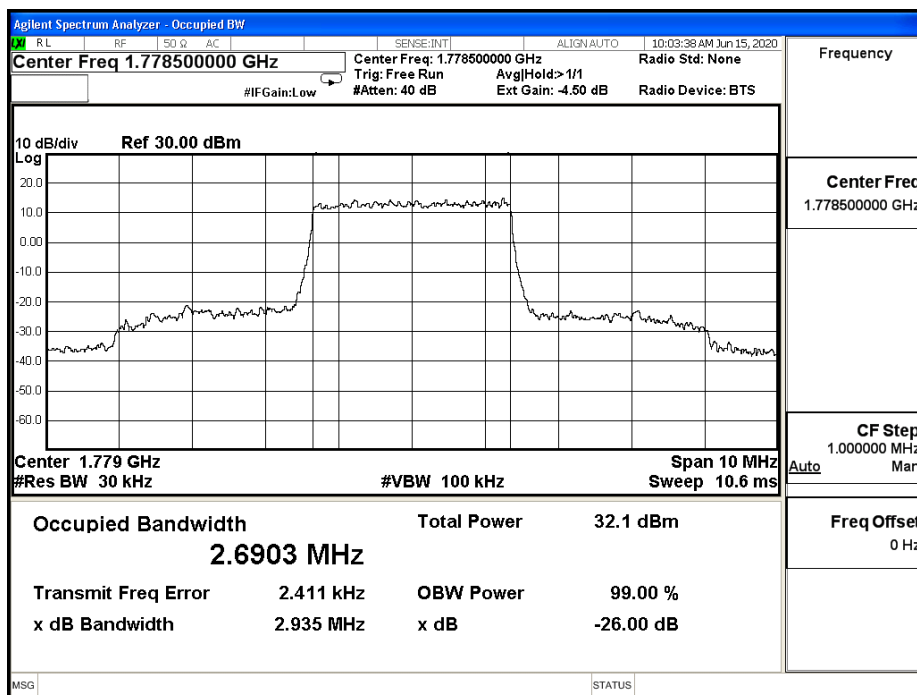
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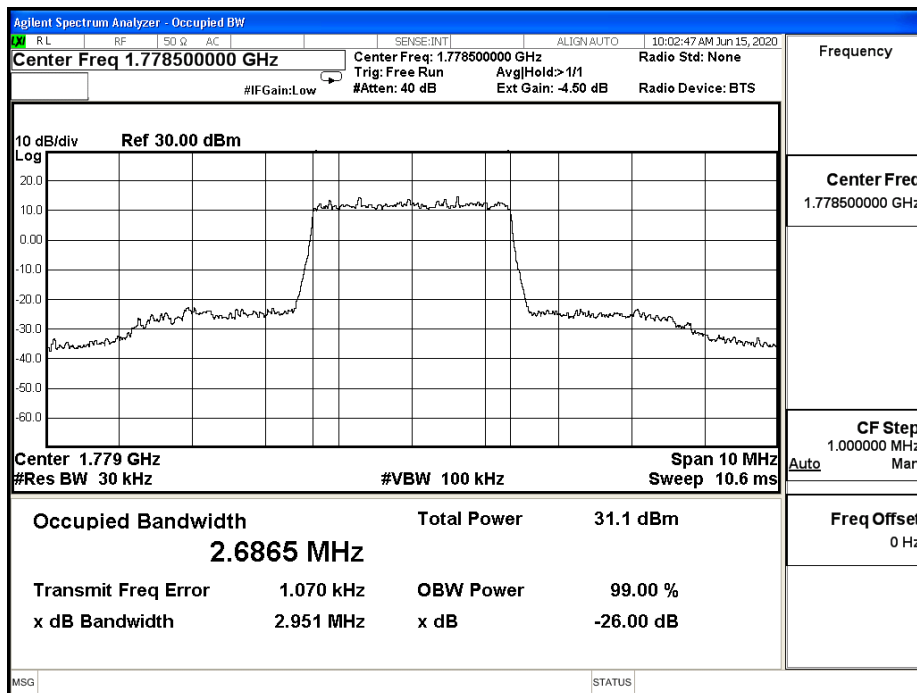
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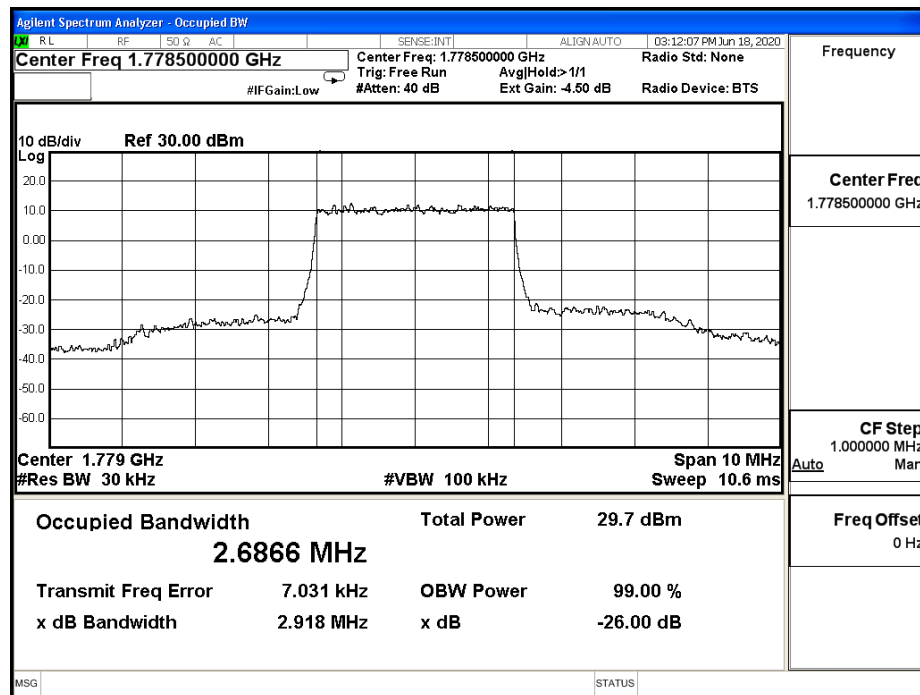
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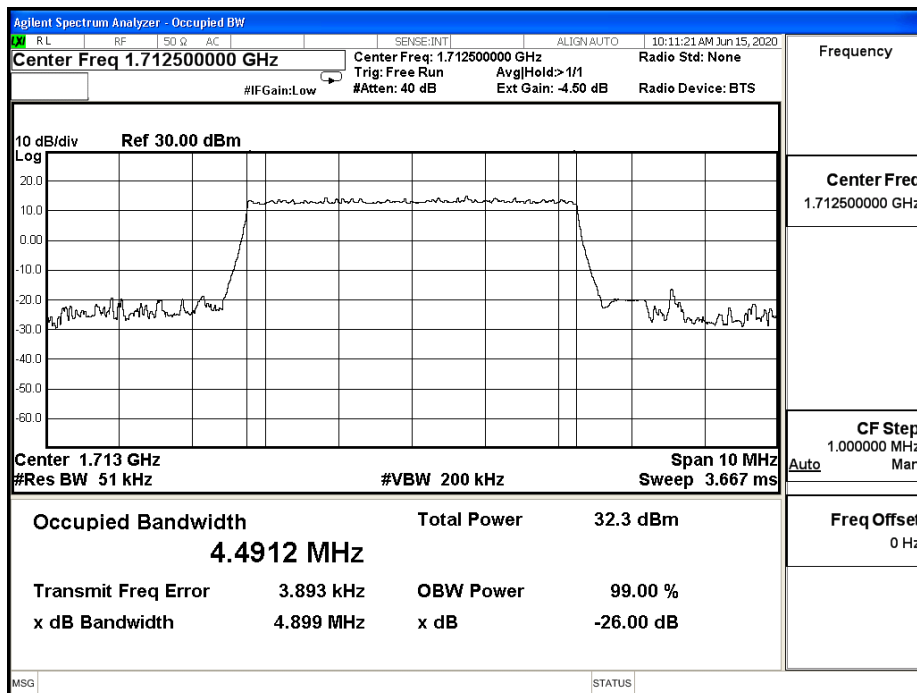
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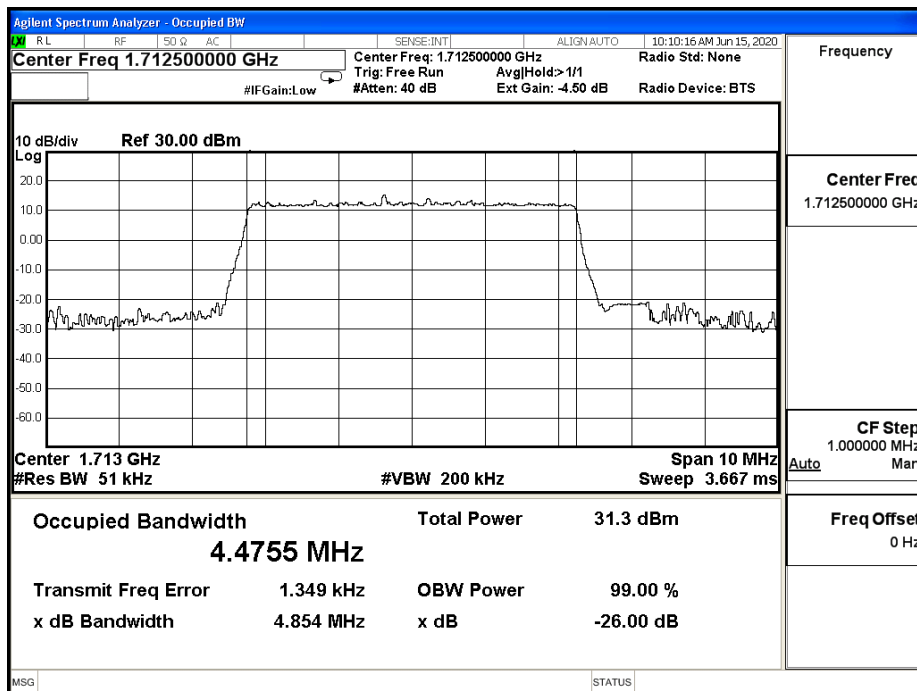
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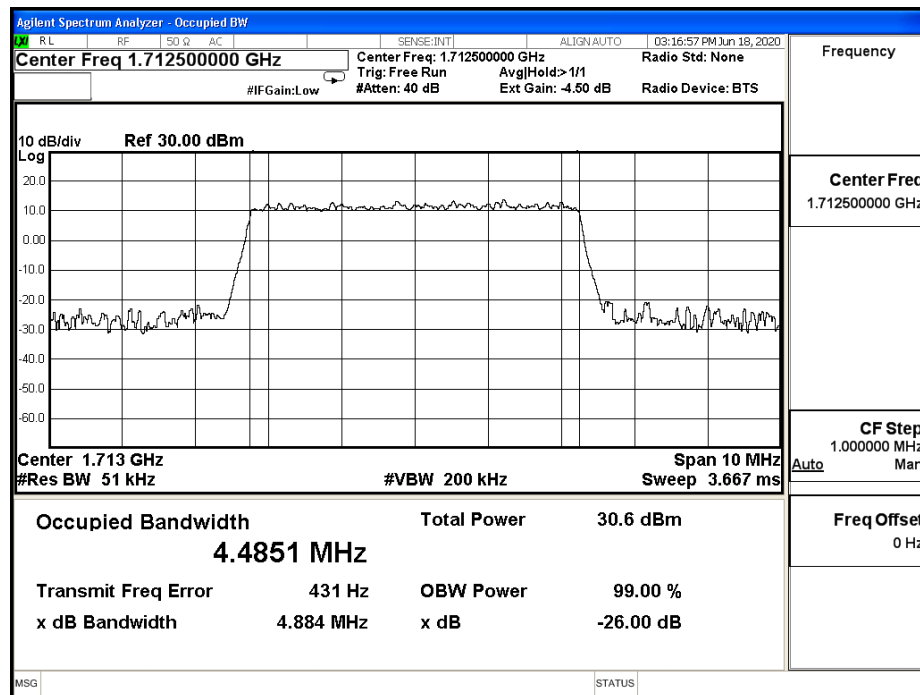
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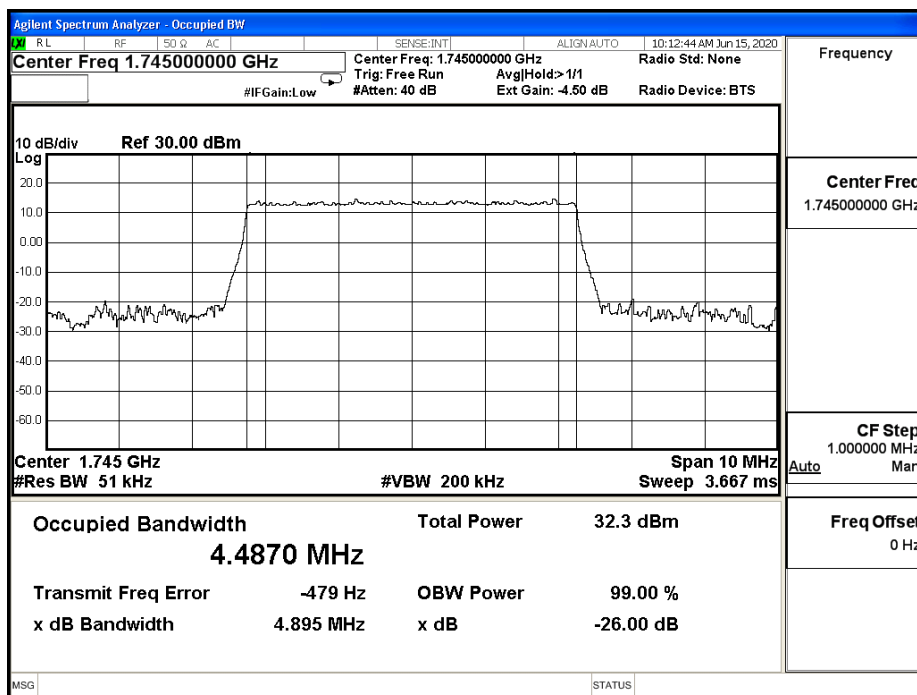
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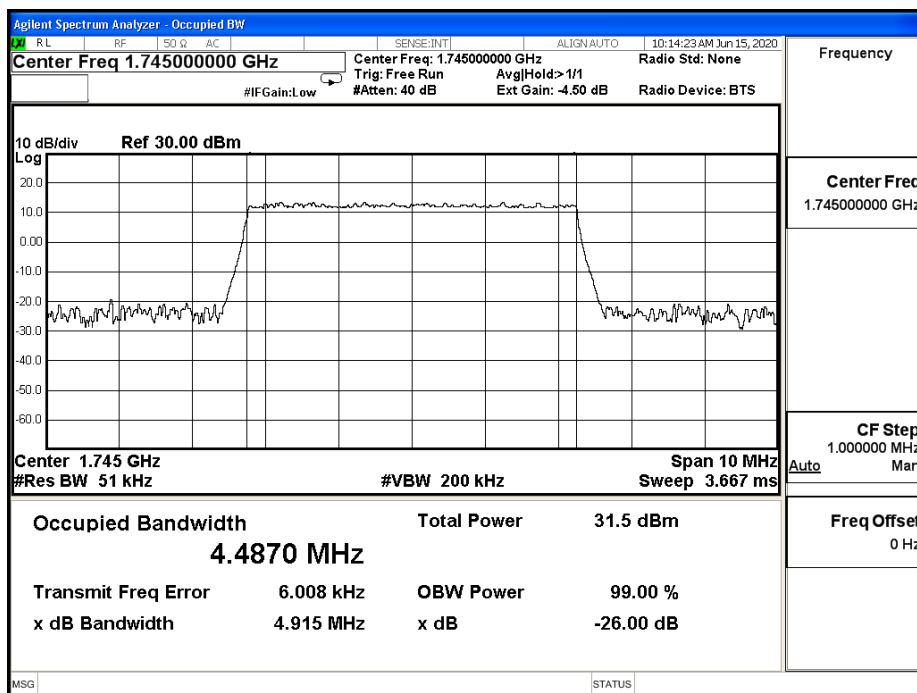
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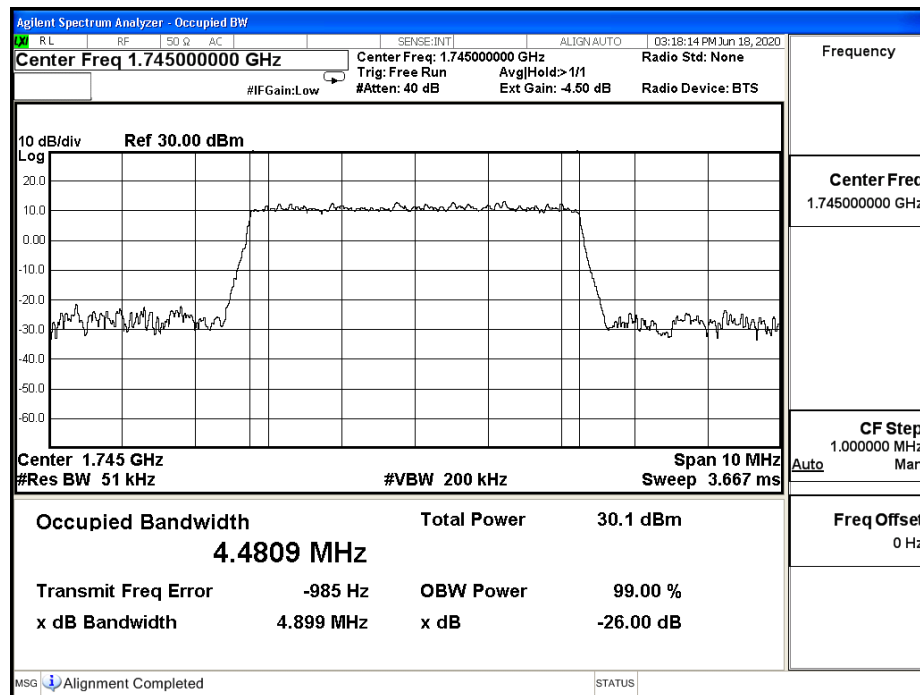
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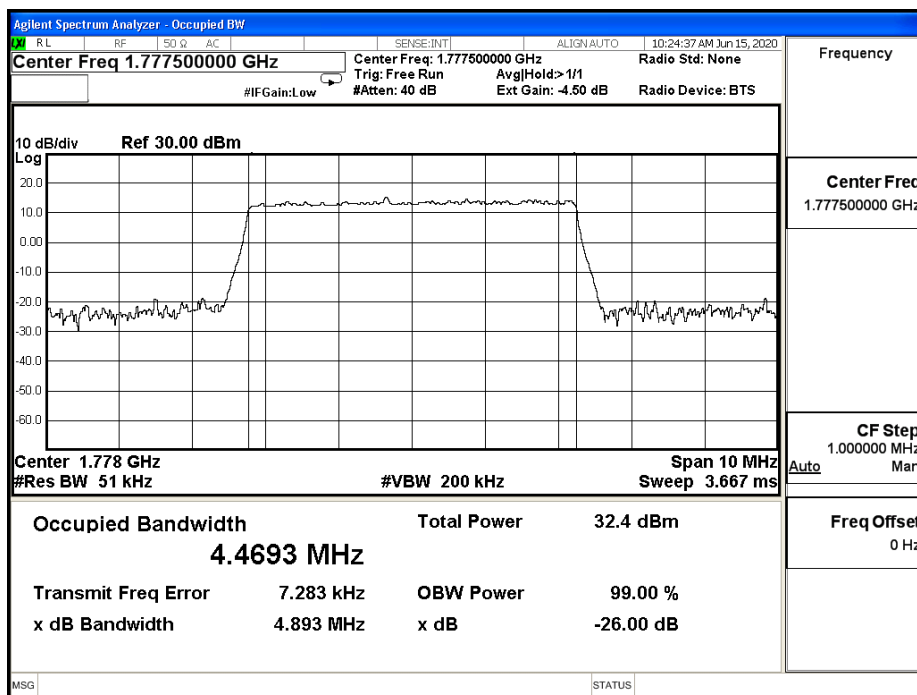
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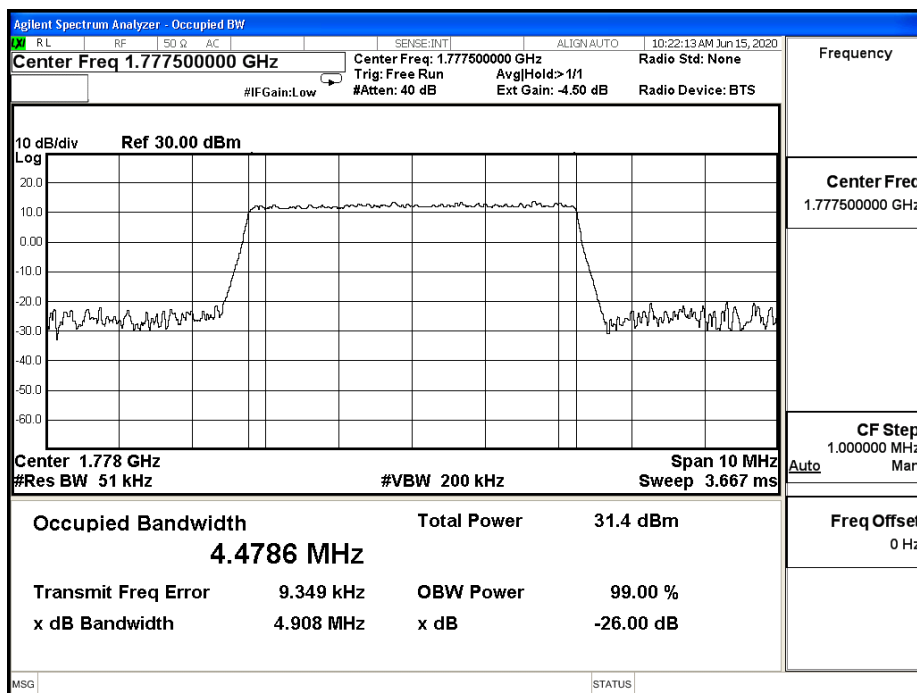
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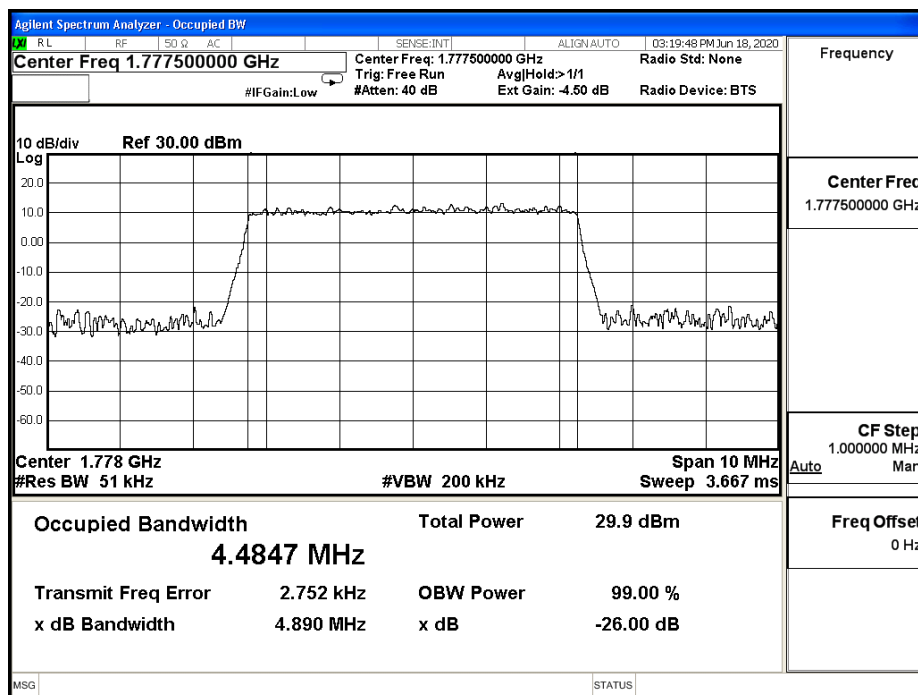
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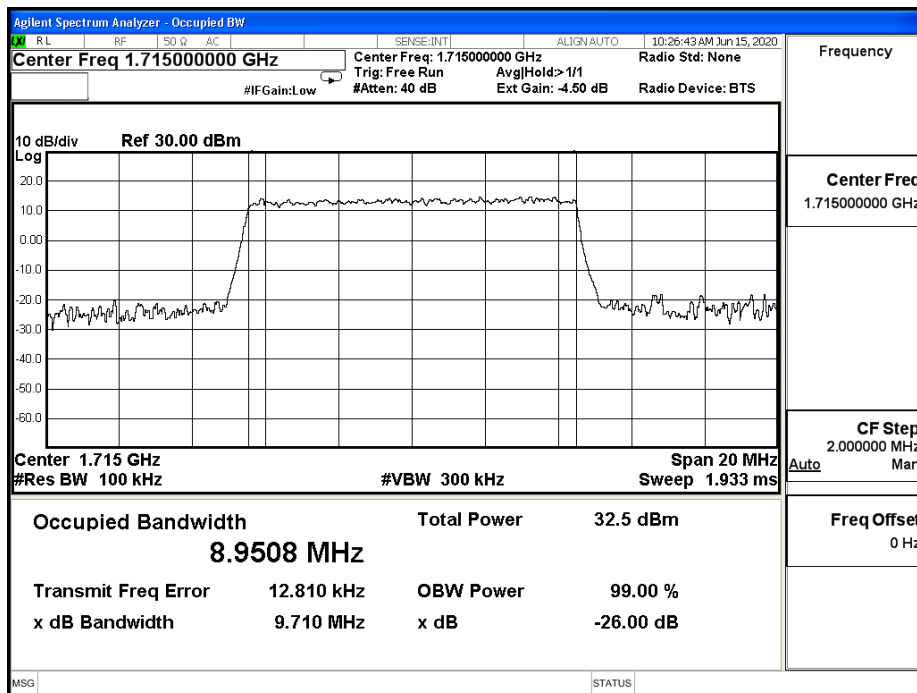
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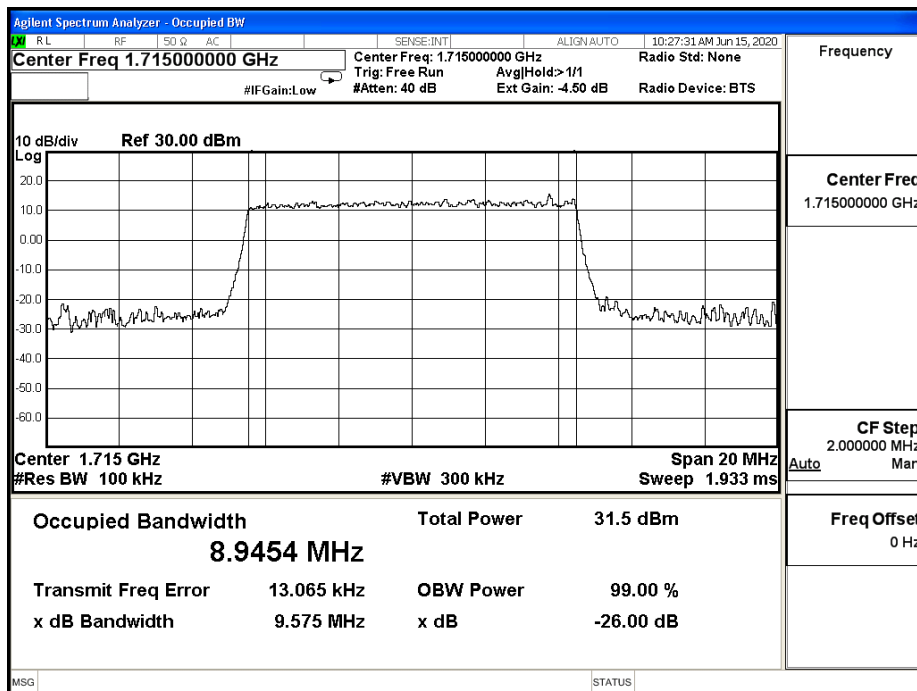
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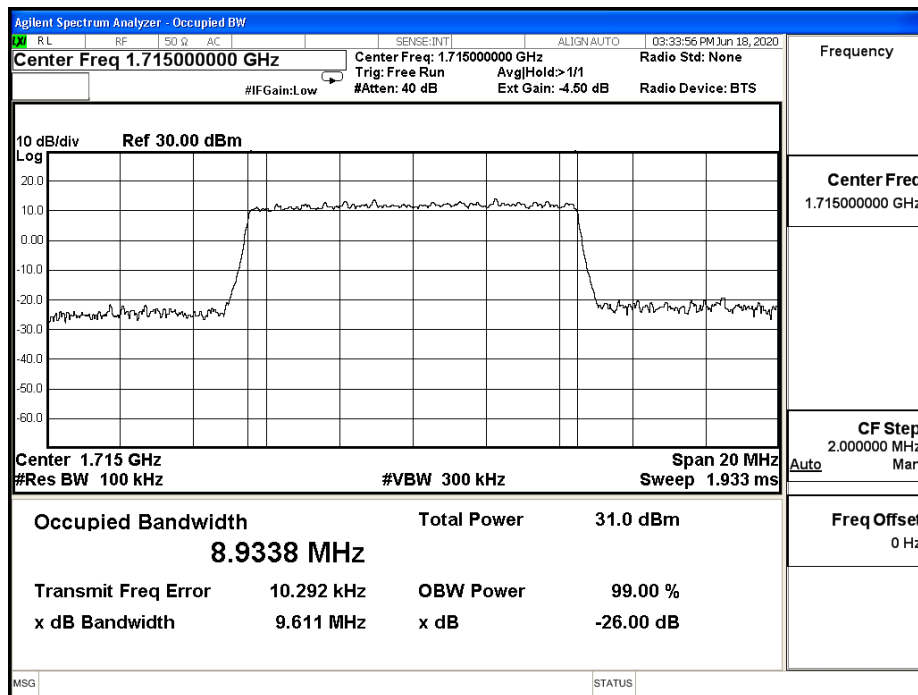
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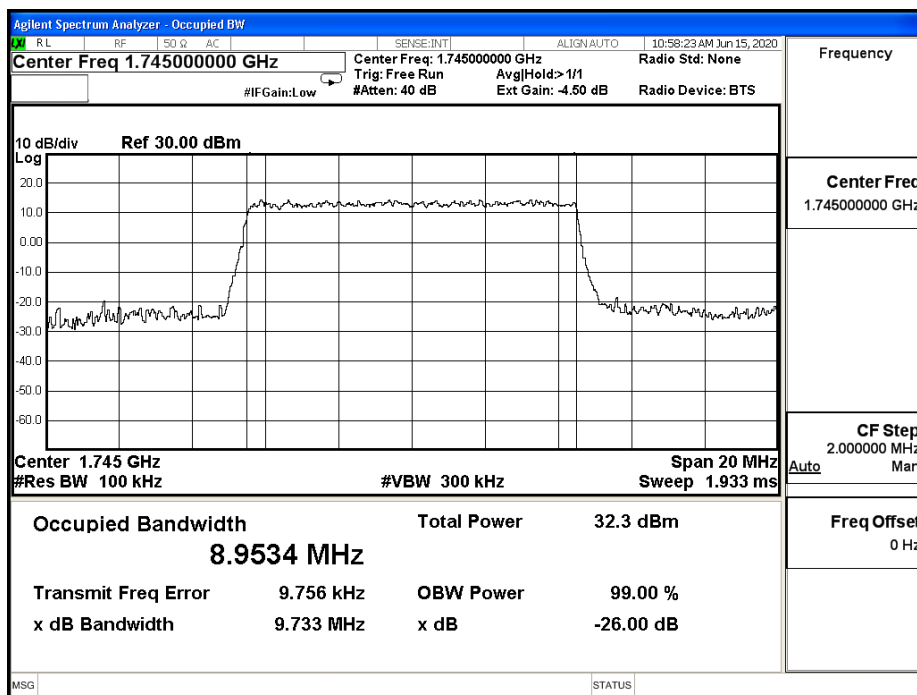
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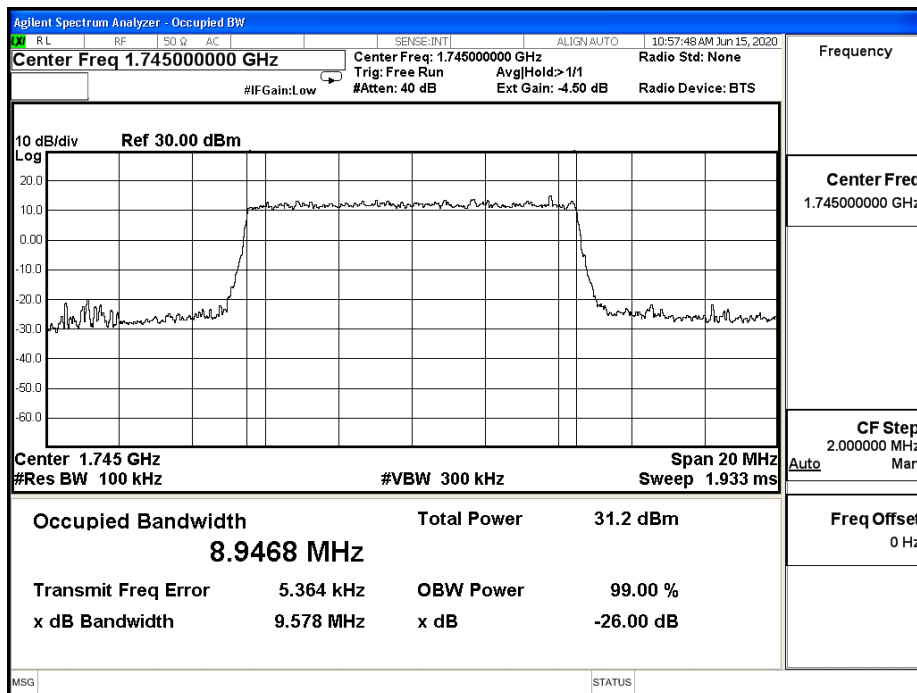
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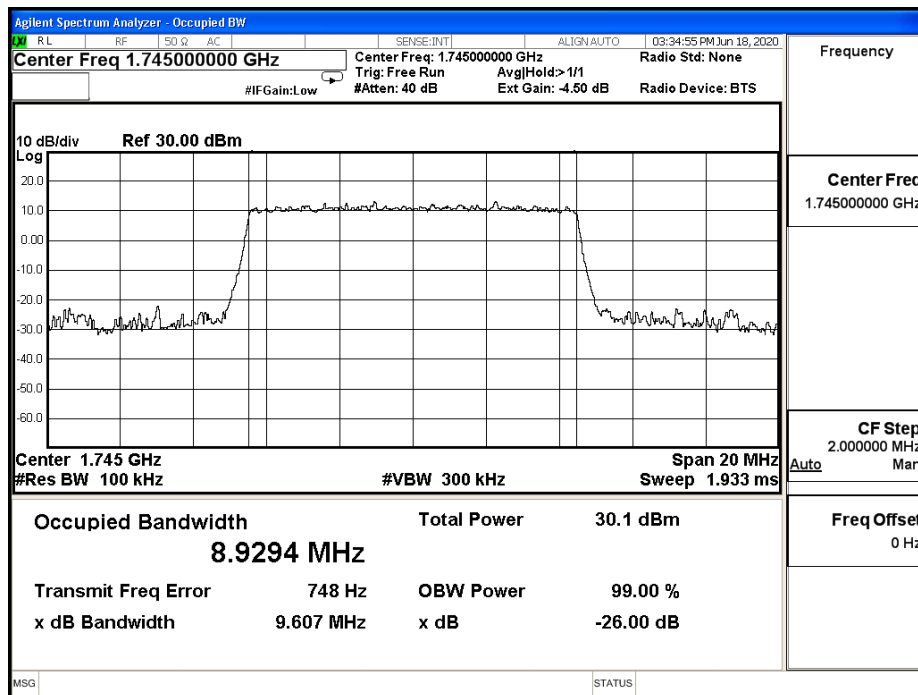
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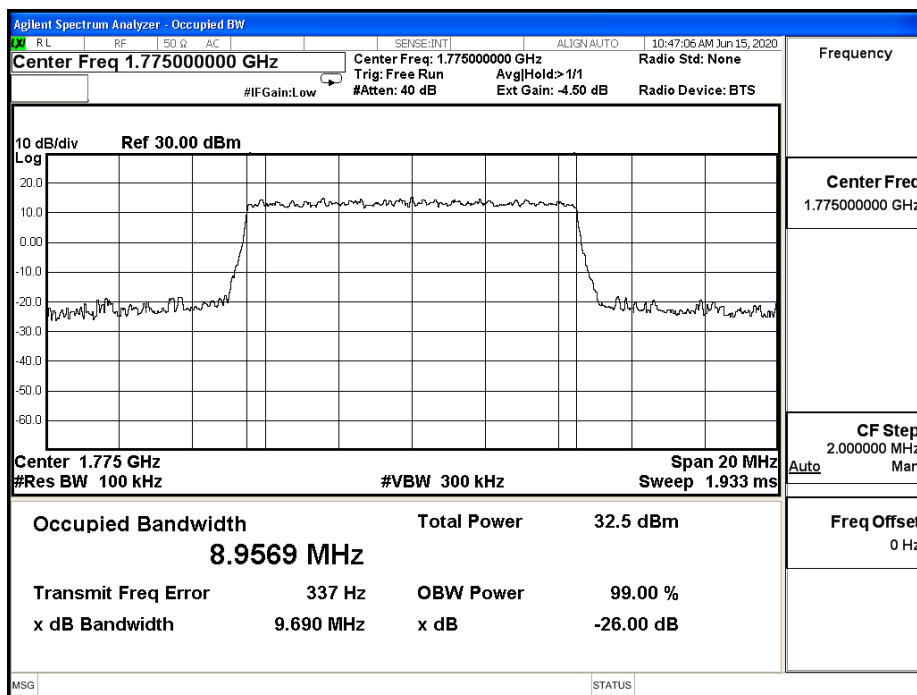
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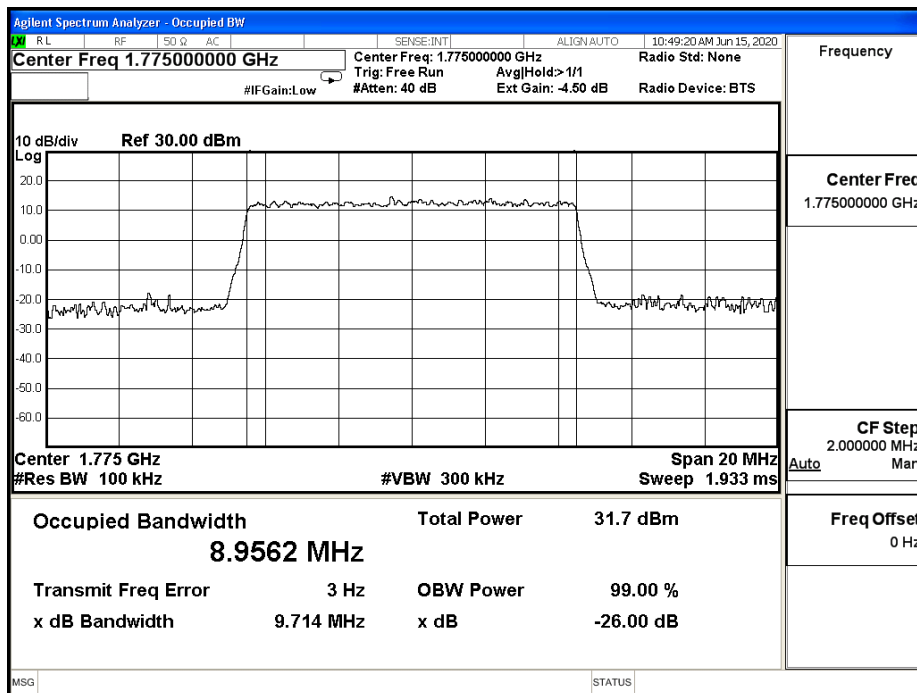
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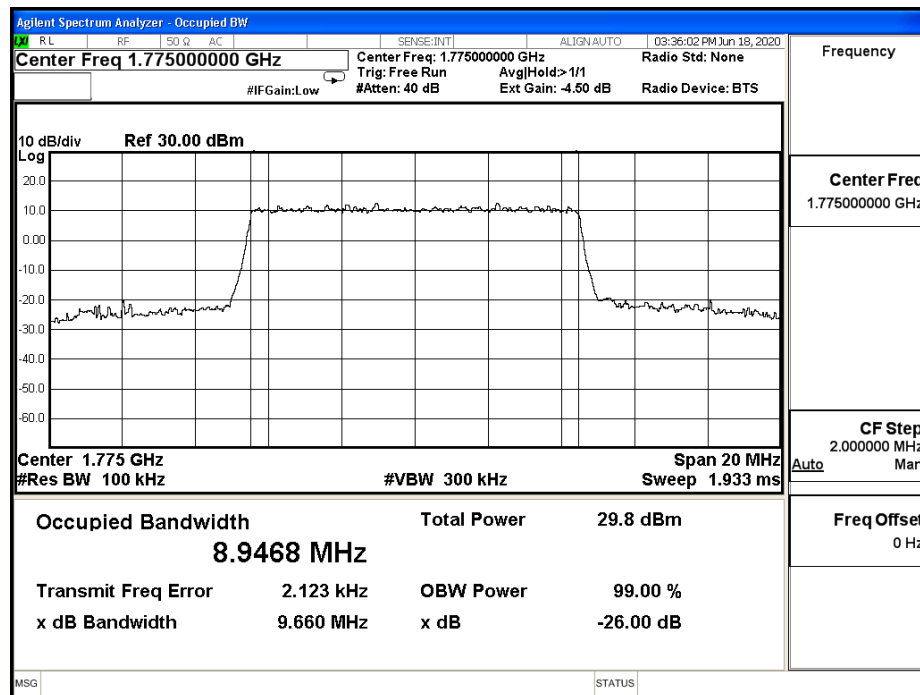
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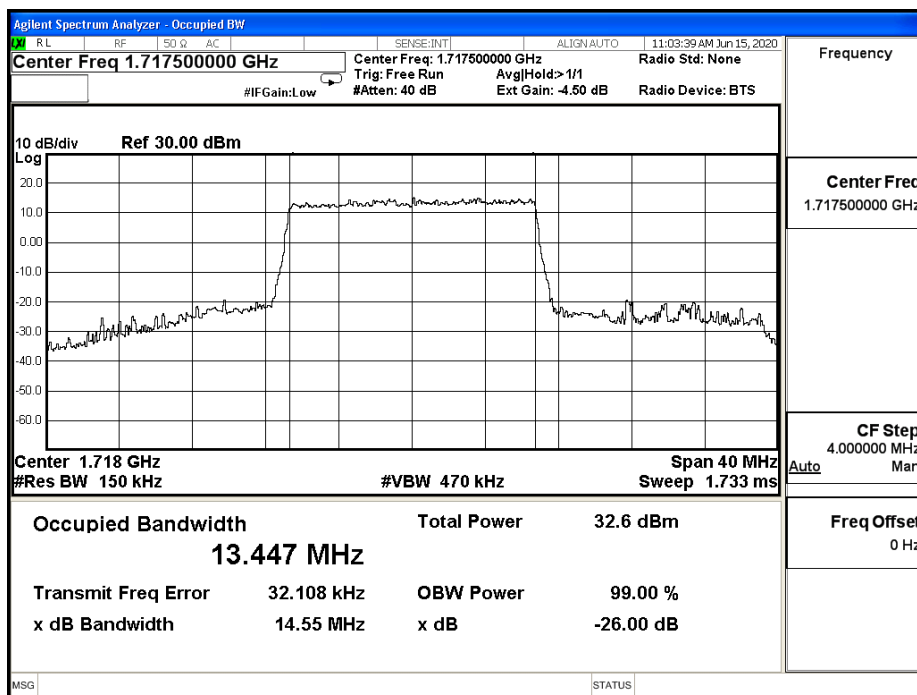
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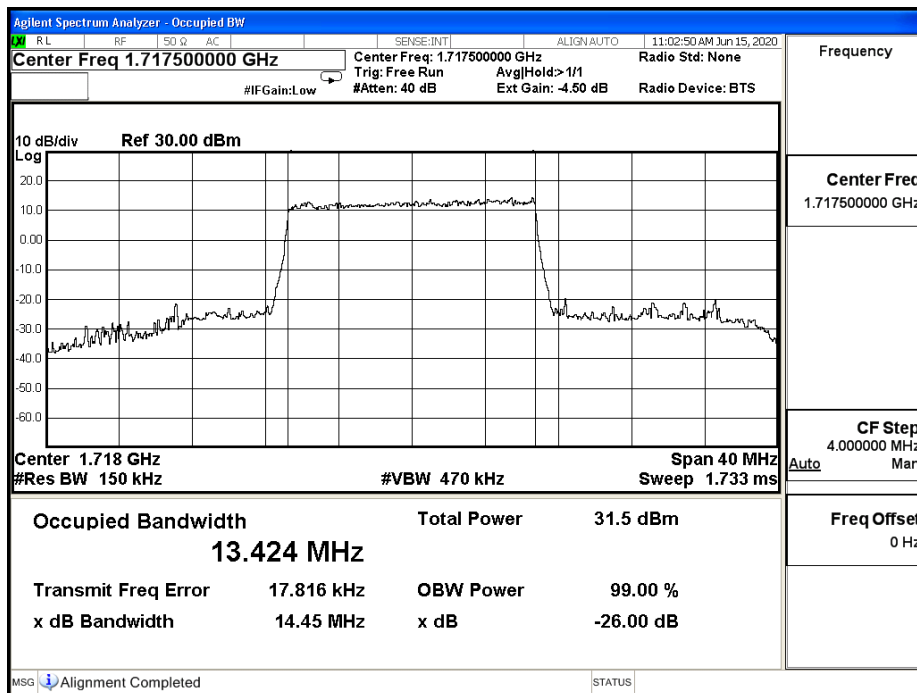
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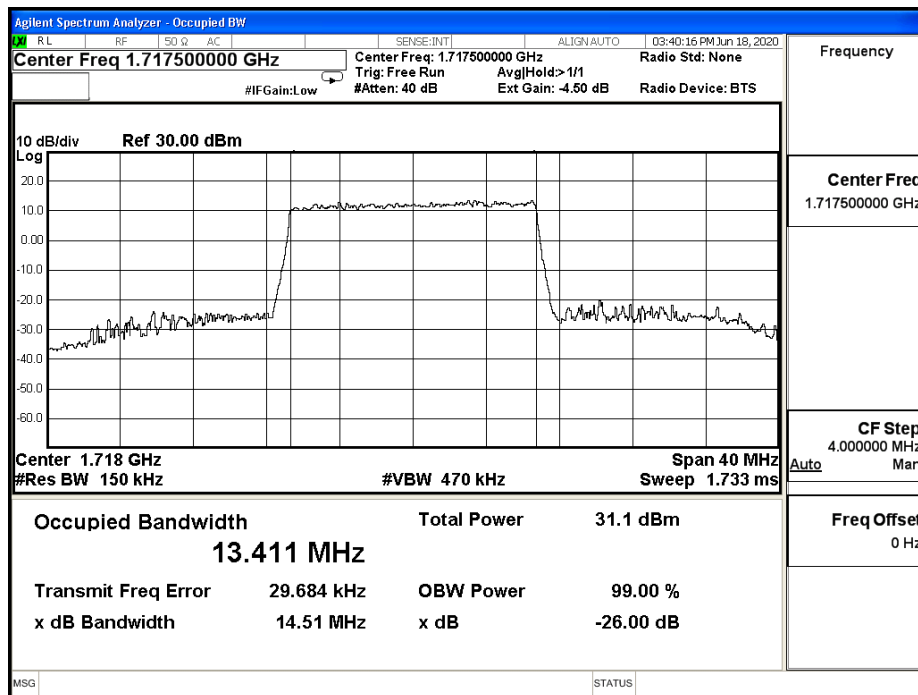
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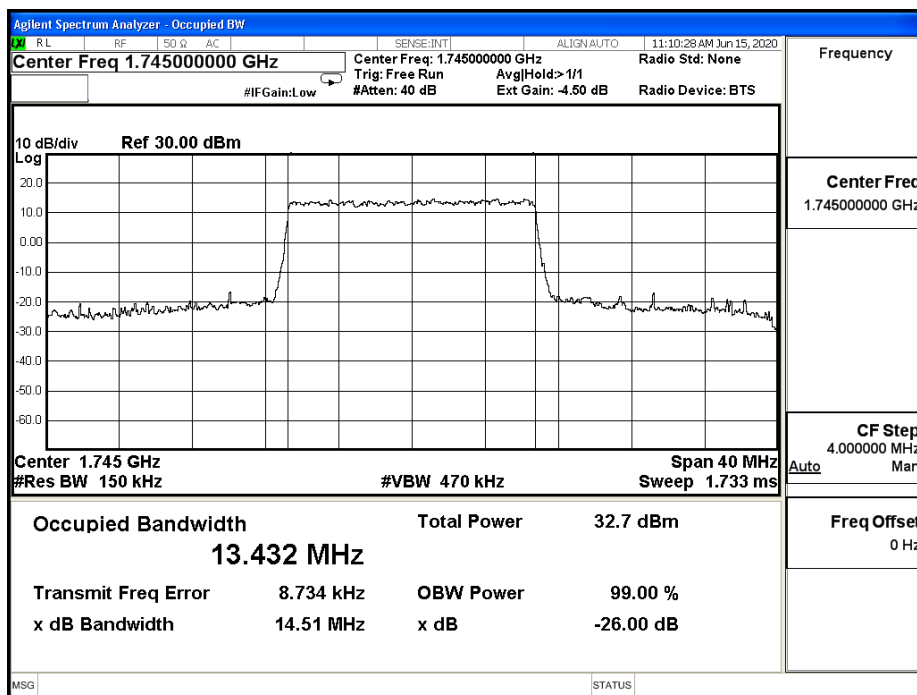
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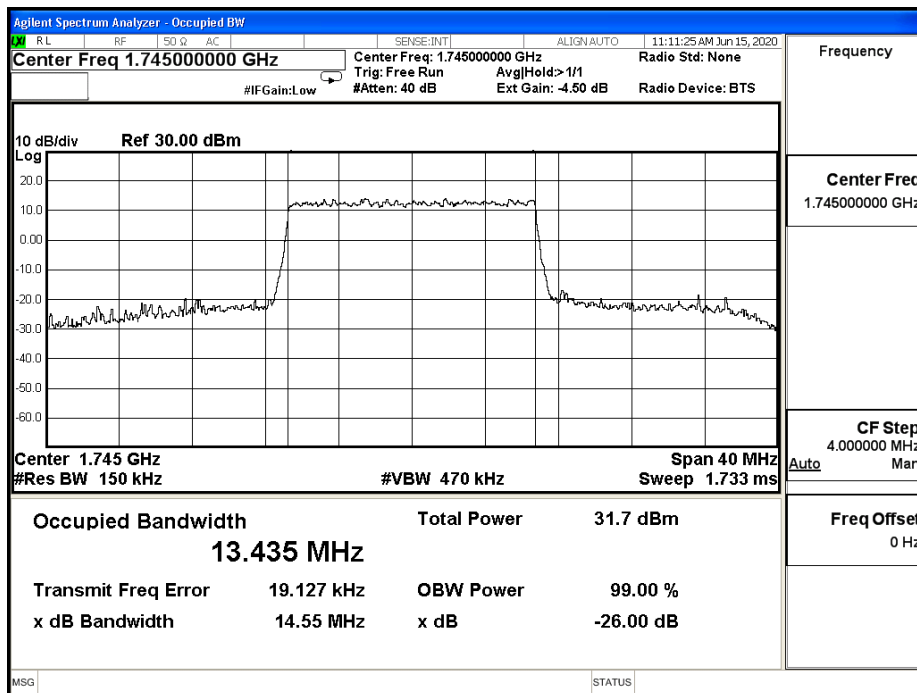
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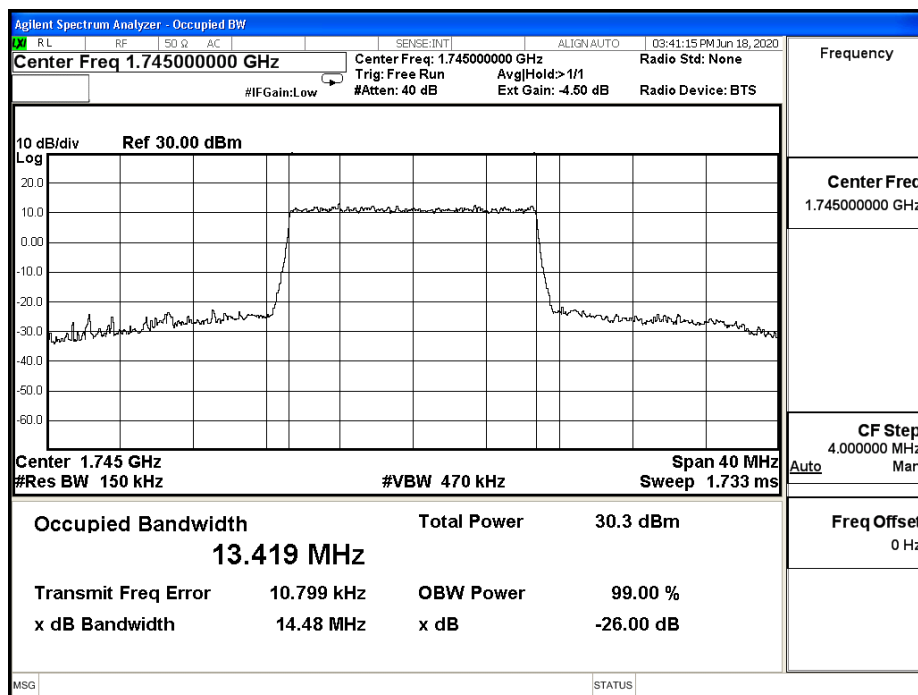
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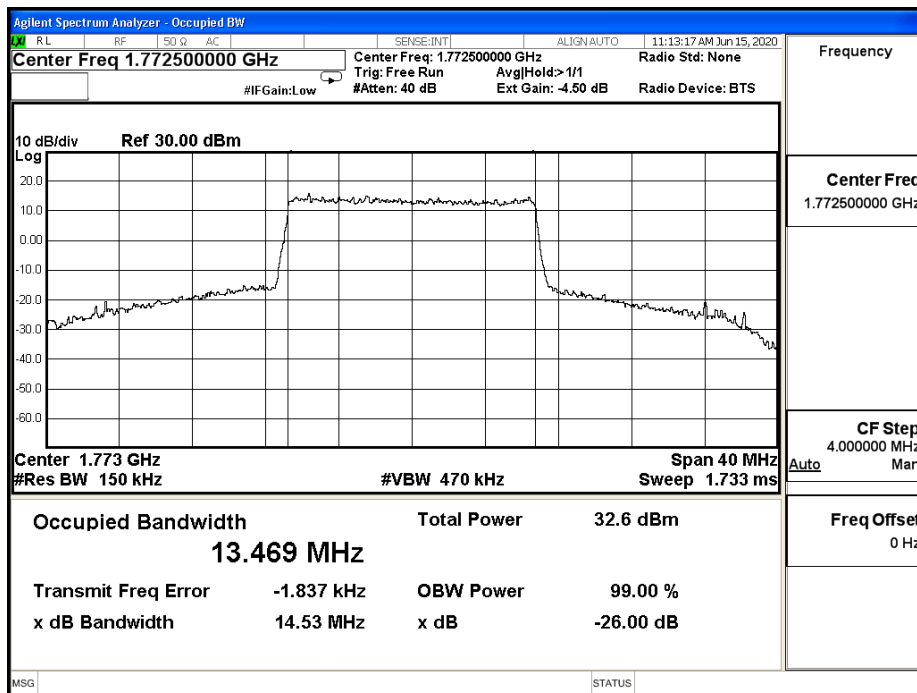
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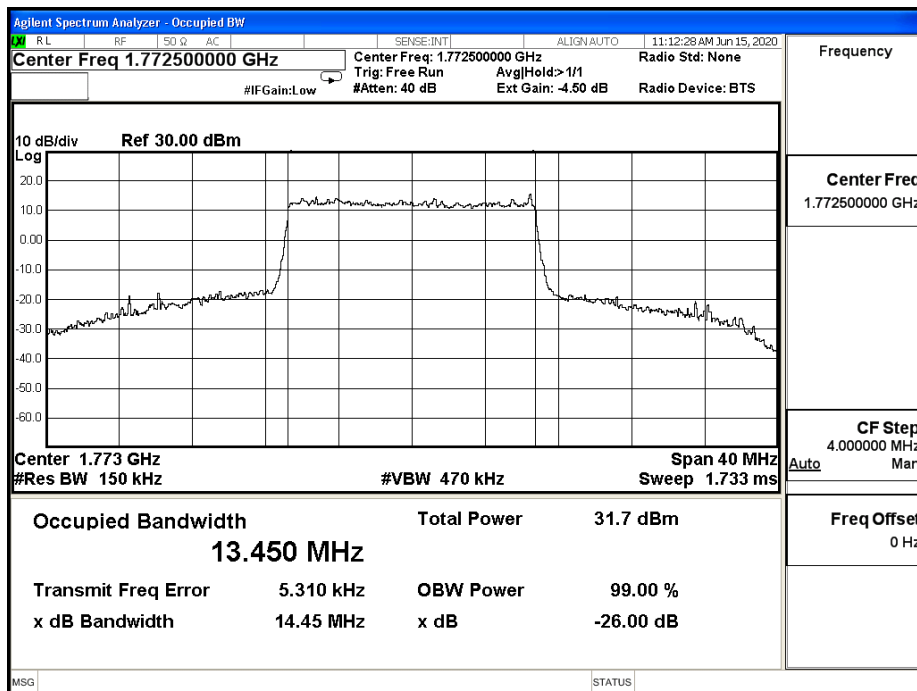
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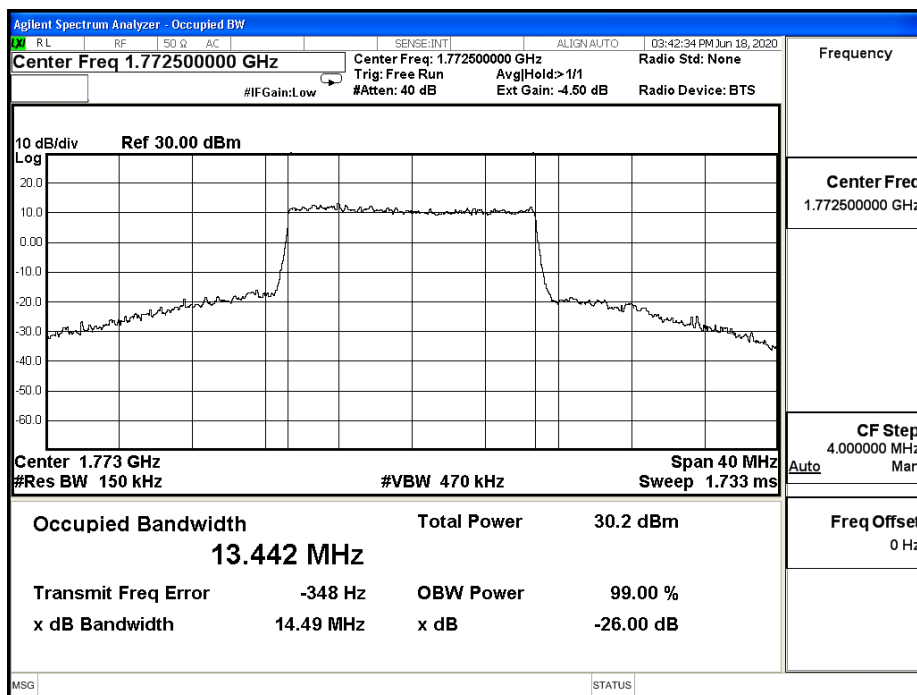
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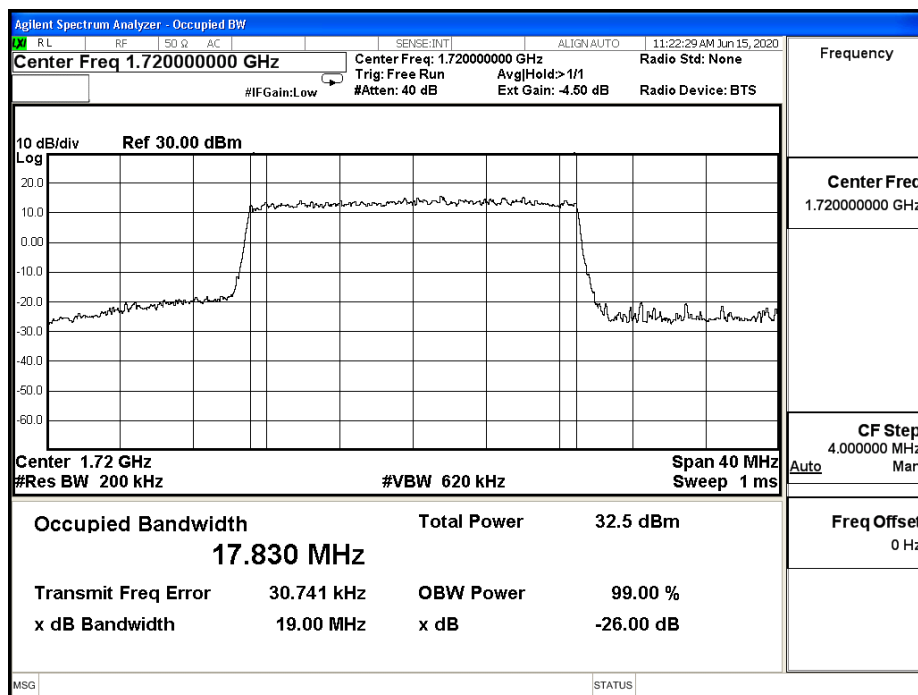
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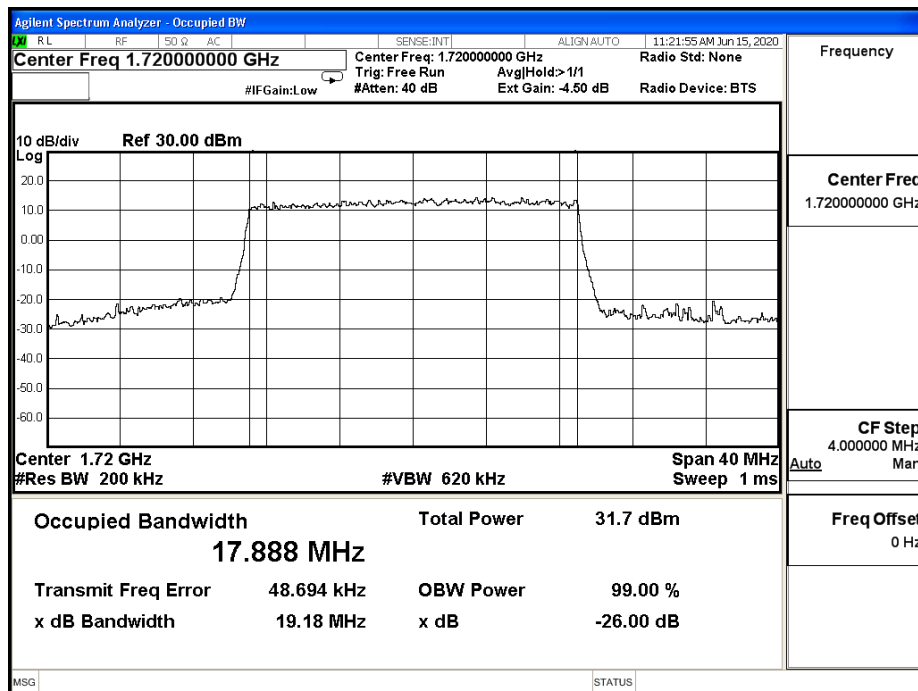
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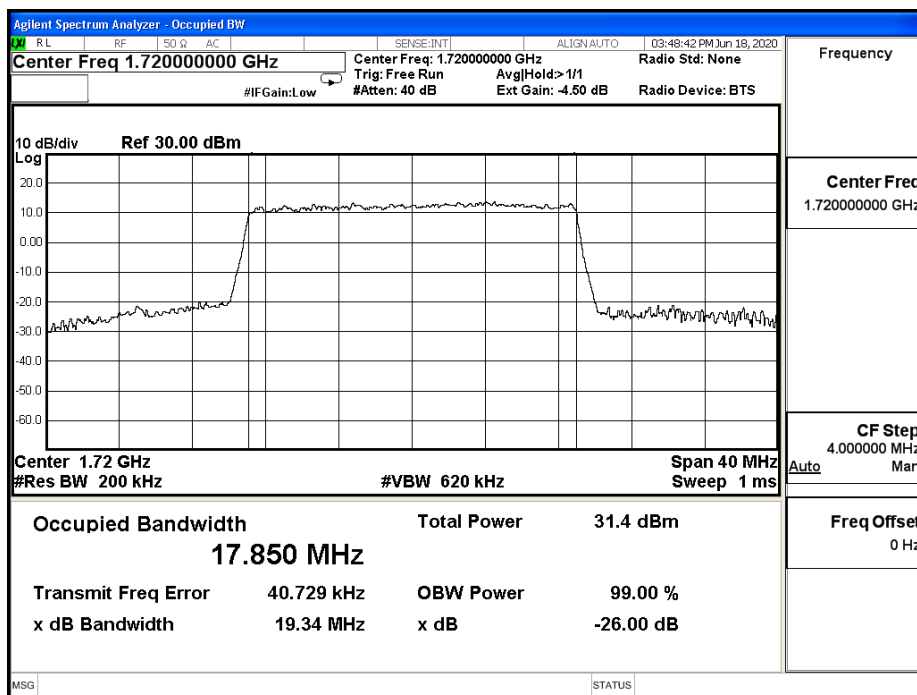
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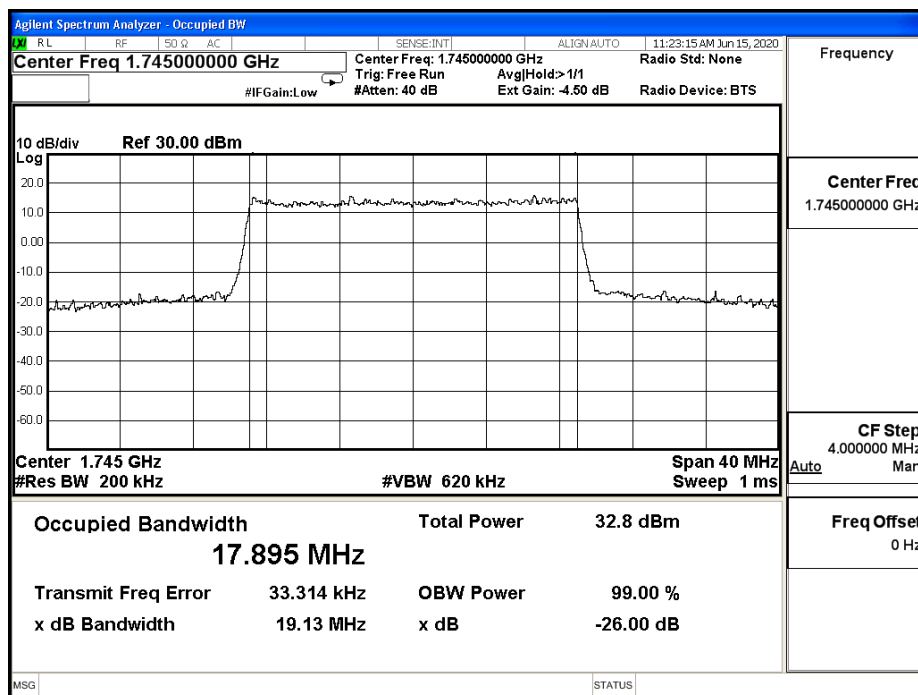
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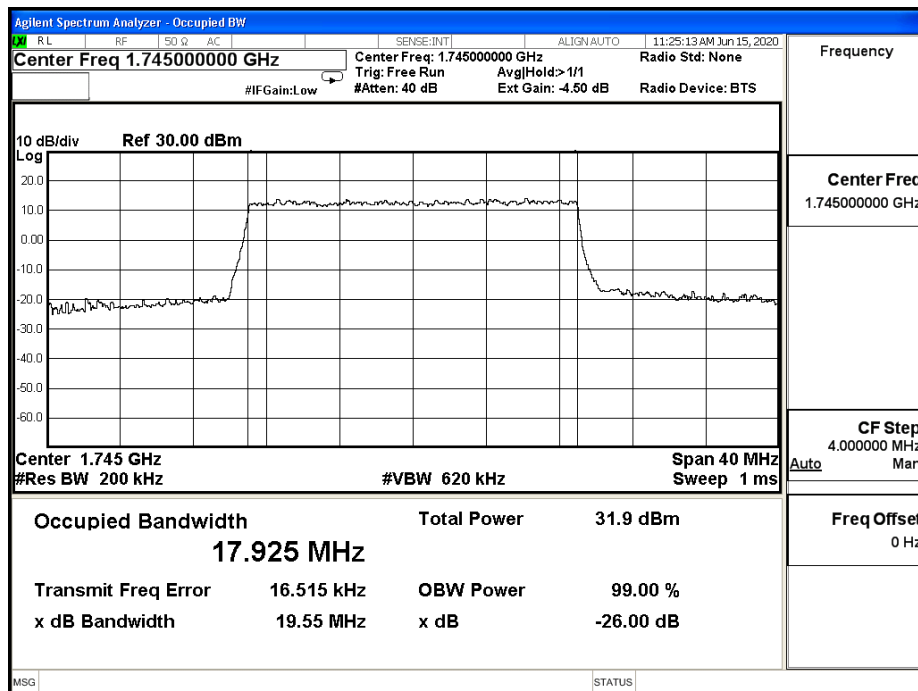
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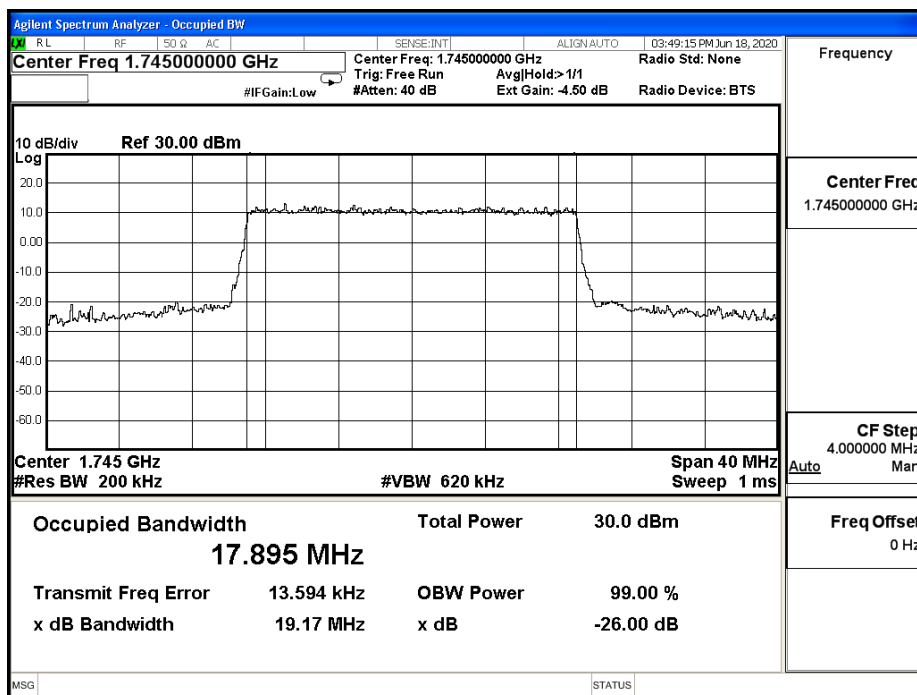
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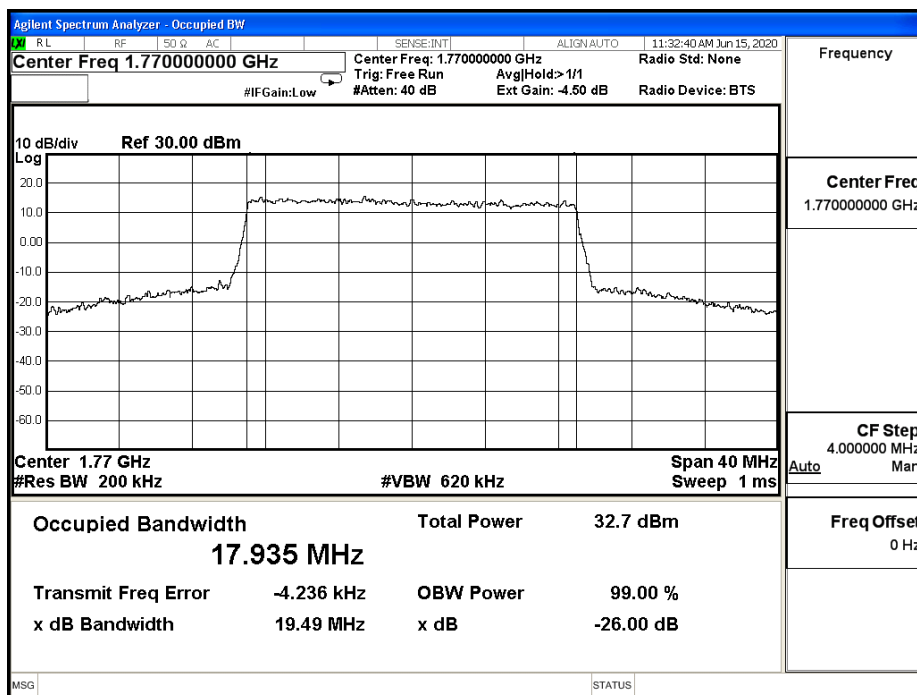
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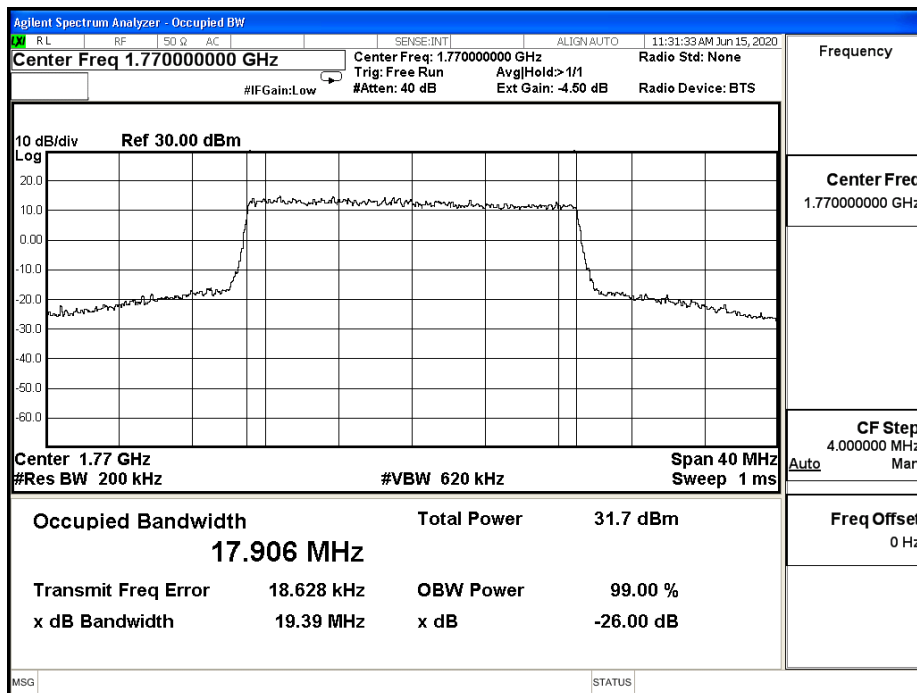
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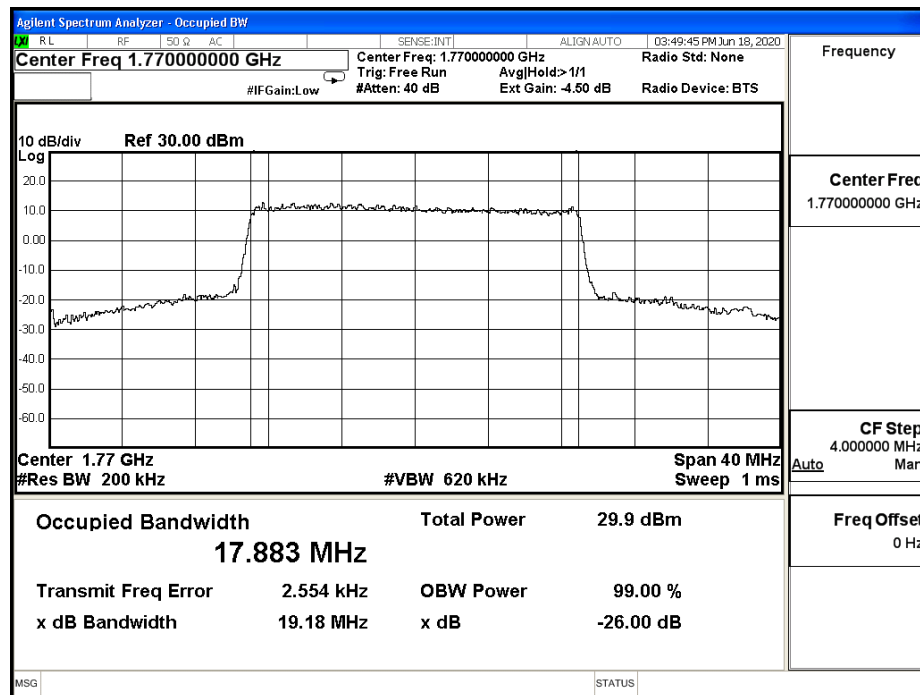
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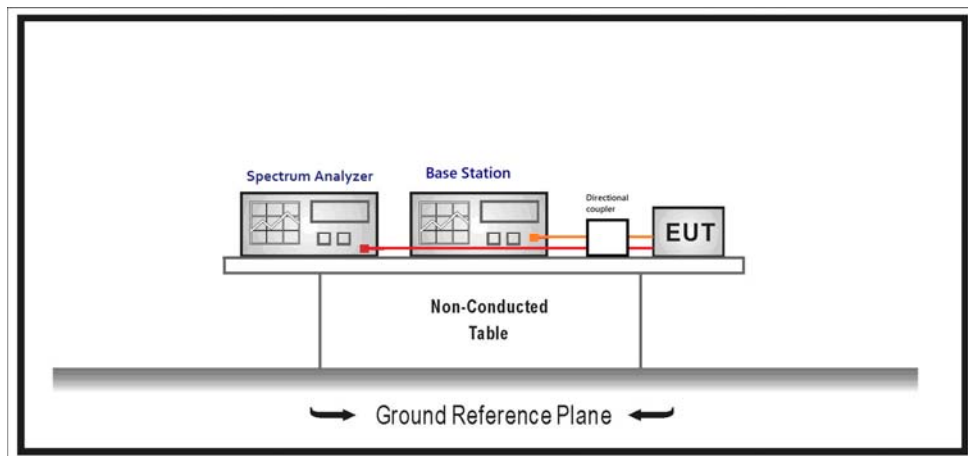


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5. Peak To Average Ratio

5.1. Test Setup



5.2. Test Procedure

1. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth.
2. Set the number of counts to a value that stabilizes the measured CCDF curve.
3. Record the maximum PAPR level associated with a probability of 0.1 %.

5.3. Test Method

KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause 5.7.2
ANSI C63.26-2015 Sub-clause 5.2.3.4

5.4. Test Result

Product	LV55		
Test Item	Peak To Average Ratio		
Test Mode	Mode 1: LTE Band 2		
Date of Test	2020/06/16	Test Site	SR12-H
Temperature (°C)	24	Humidity (%RH)	60

Band 2						
BW	Ch	Freq. (MHz)	Modulation	Peak (dBm)	Average (dBm)	PAPR (dB)
1.4M	18607	1850.7	QPSK	27.04	22.93	4.00
			16-QAM	27.93	22.45	5.48
	18900	1880	QPSK	27.21	23.19	4.00
			16-QAM	28.03	22.27	5.77
	19193	1909.3	QPSK	26.82	23.25	3.62
			16-QAM	26.86	22.39	4.49
3M	18615	1851.5	QPSK	26.78	23.01	3.80
			16-QAM	27.80	22.12	5.68
	18900	1880	QPSK	26.74	22.96	3.83
			16-QAM	27.88	22.09	5.80
	19185	1908.5	QPSK	26.68	23.12	3.57
			16-QAM	26.72	22.19	4.58
5M	18625	1852.5	QPSK	26.44	22.65	3.74
			16-QAM	27.49	22.08	5.45
	18900	1880	QPSK	26.47	22.74	3.71
			16-QAM	27.49	21.84	5.65
	19175	1907.5	QPSK	26.35	22.75	3.65
			16-QAM	26.35	22.10	4.32
10M	18650	1855	QPSK	24.75	21.02	3.71
			16-QAM	25.69	20.03	5.62
	18900	1880	QPSK	24.72	20.96	3.74
			16-QAM	25.62	20.20	5.42
	19150	1905	QPSK	24.51	20.93	3.59
			16-QAM	24.55	19.98	4.58

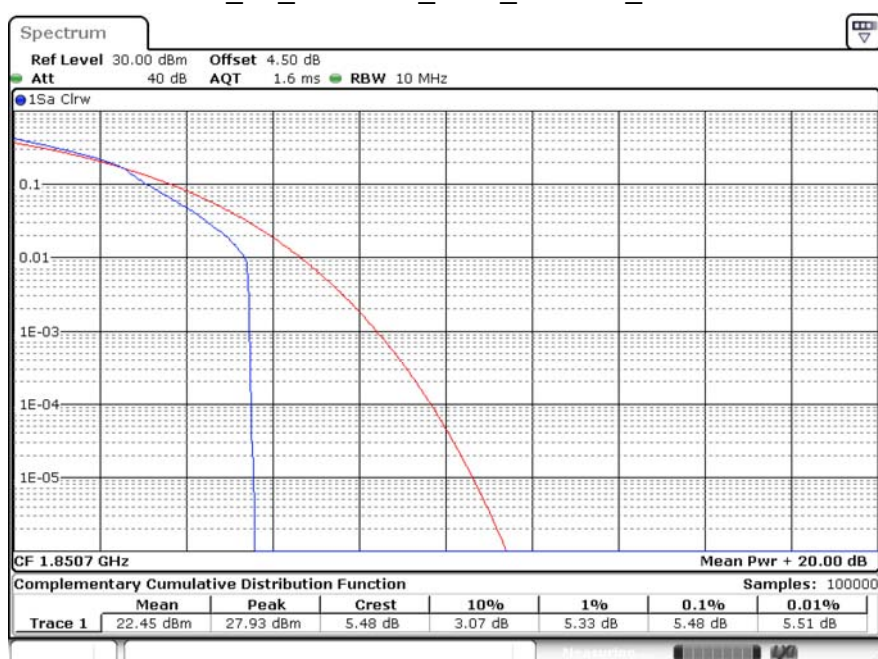
Band 2						
BW	Ch	Freq. (MHz)	Modulation	Peak (dBm)	Average (dBm)	PAPR (dB)
15M	18675	1857.5	QPSK	21.51	17.81	3.68
			16-QAM	22.71	16.89	5.77
	18900	1880	QPSK	21.54	17.85	3.68
			16-QAM	22.73	17.08	5.65
	19125	1902.5	QPSK	21.51	17.95	3.54
			16-QAM	21.69	17.12	4.58
20M	18700	1860	QPSK	17.22	13.62	3.54
			16-QAM	18.45	13.02	5.33
	18900	1880	QPSK	17.21	13.54	3.65
			16-QAM	18.34	12.86	5.39
	19100	1900	QPSK	17.54	13.87	3.59
			16-QAM	17.65	12.81	4.81

LTE_B2_CH18607_1.4M_QPSK_1RB0



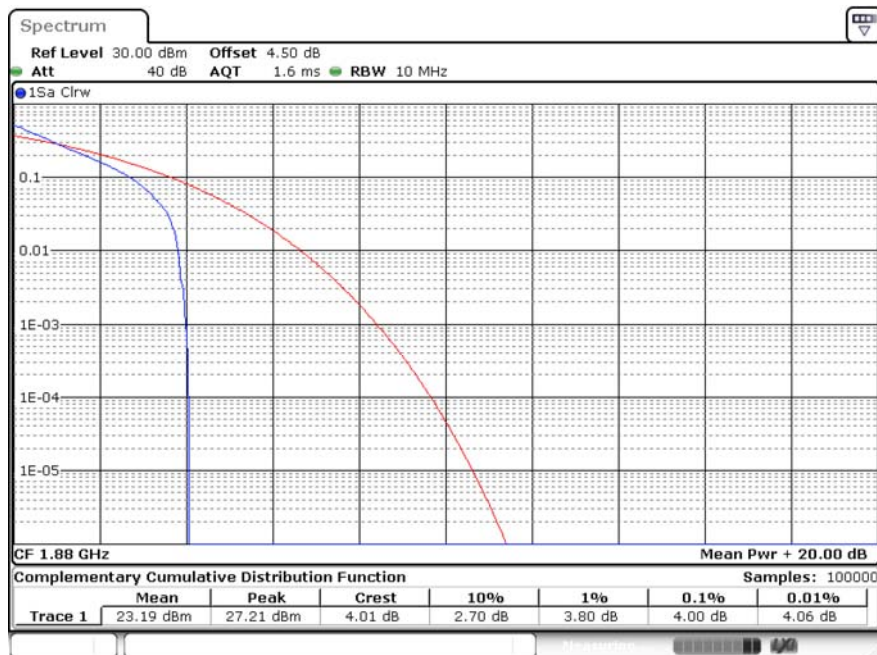
Date: 16 JUN 2020 14:27:08

LTE_B2_CH18607_1.4M_16-QAM_1RB0



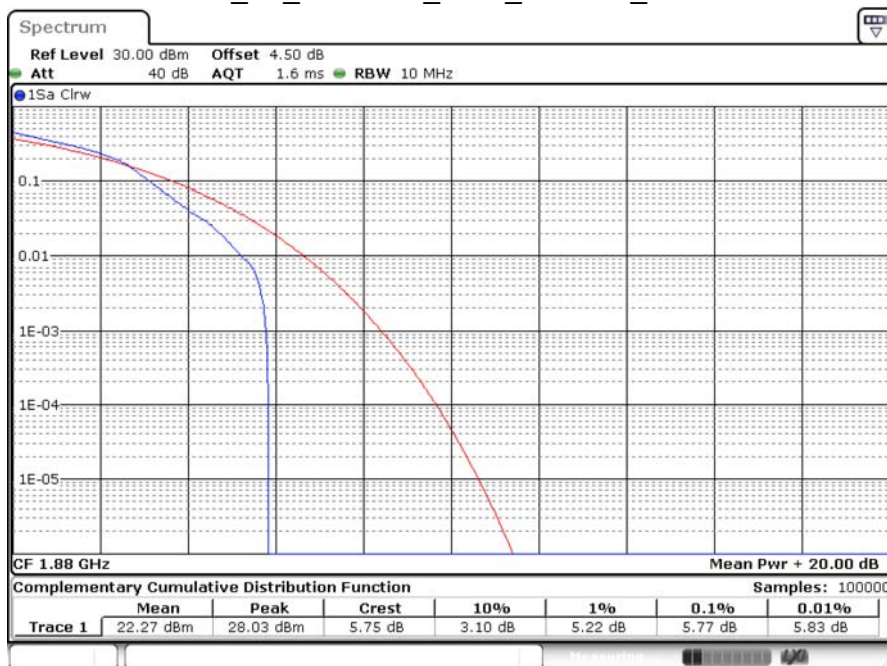
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Date: 16 JUN 2020 14:27:55

LTE_B2_CH19193_1.4M_QPSK_1RB5



Date: 16 JUN 2020 14:28:35

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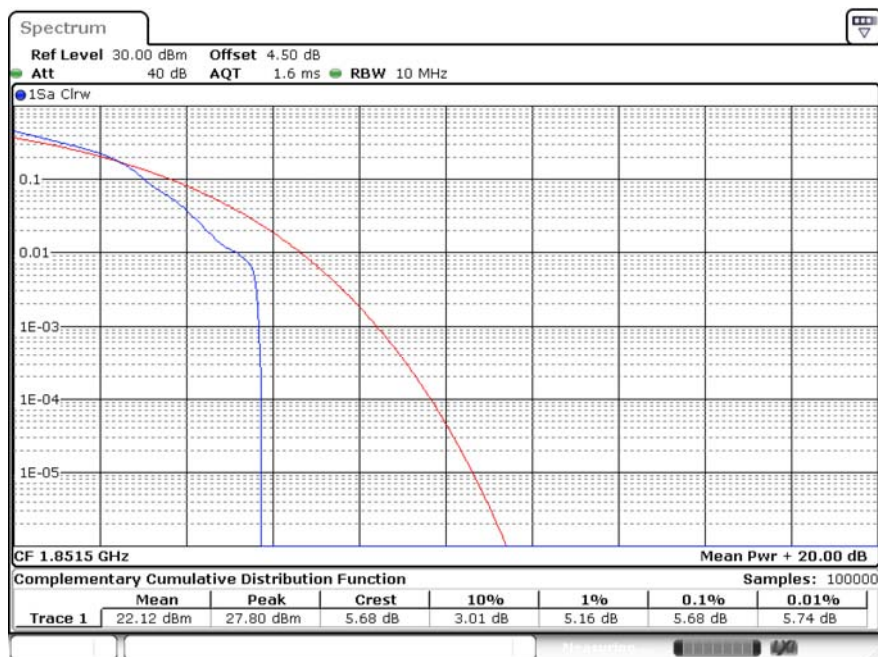
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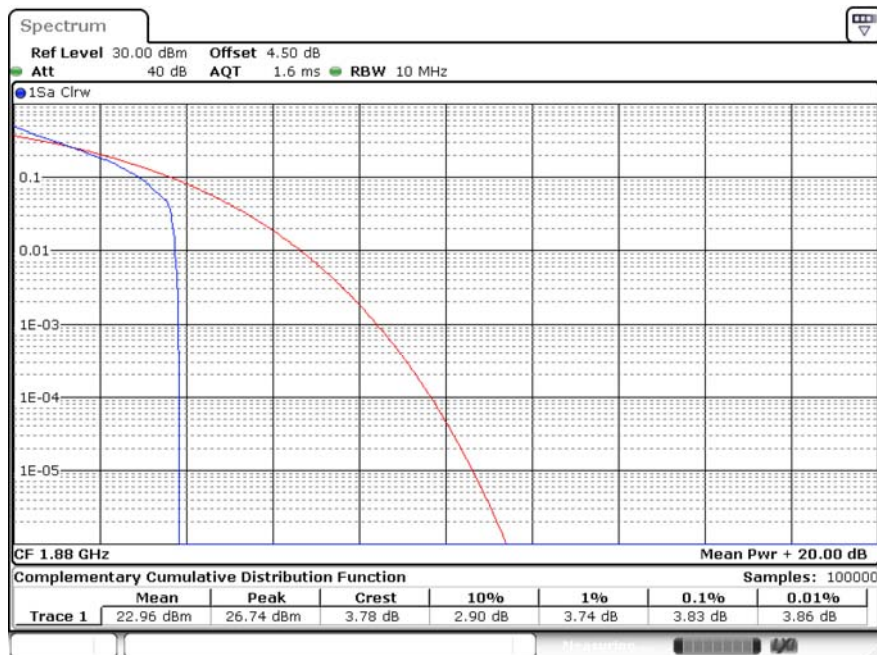
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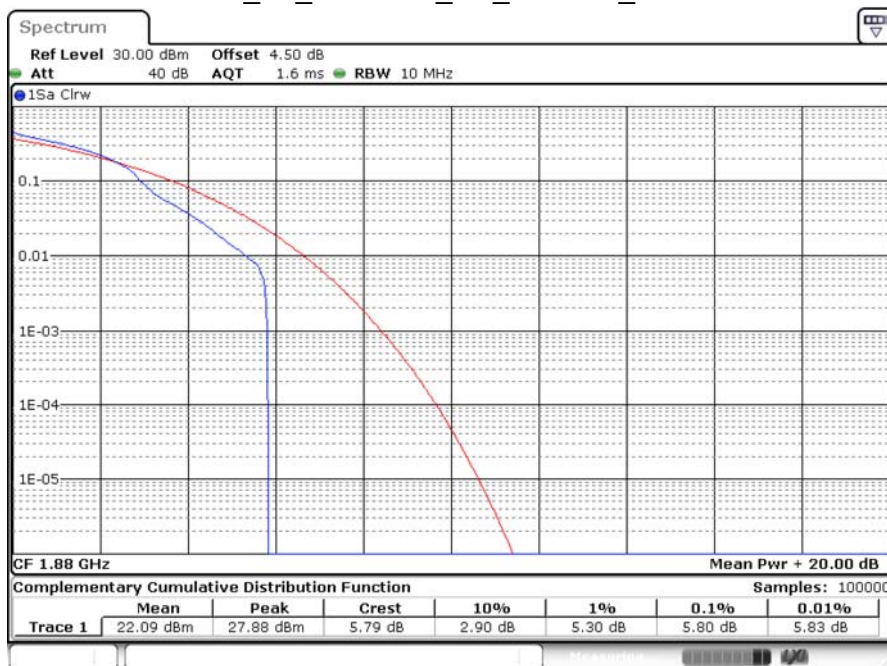
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Date: 16 JUN 2020 14:43:07

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Date: 16 JUN 2020 14:43:50

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Date: 16 JUN 2020 14:44:04

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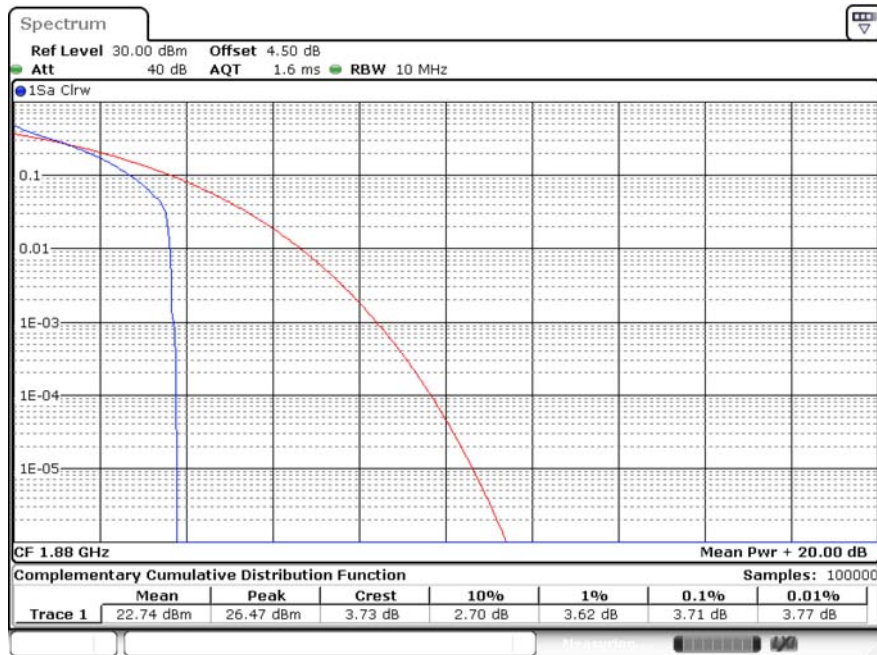
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Date: 16 JUN 2020 14:45:41

LTE_B2_CH18900_5M_16-QAM_1RB0



Date: 16 JUN 2020 14:45:28