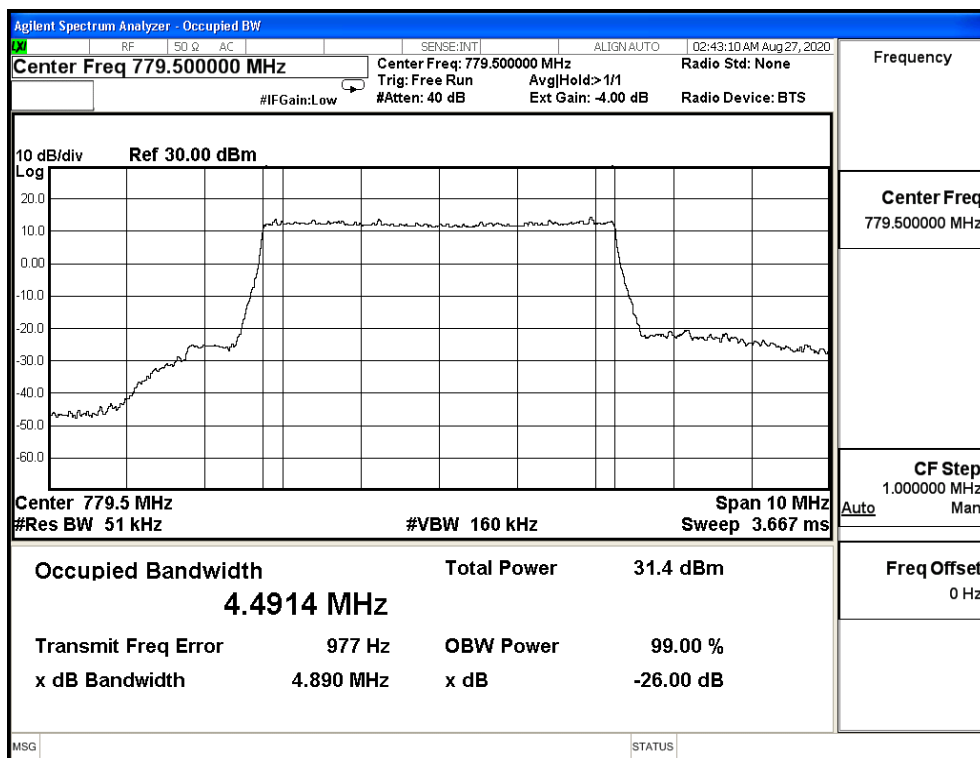


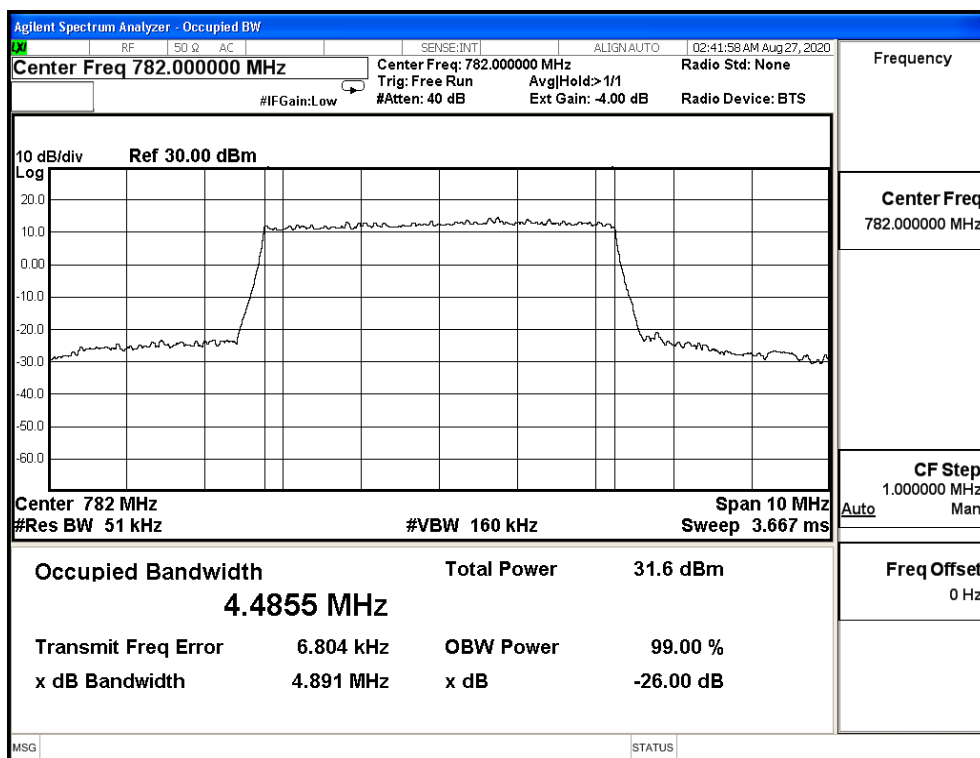
Product	Module		
Test Item	Occupied Bandwidth		
Test Mode	Mode 6: LTE Band 13		
Date of Test	2020/09/02	Test Site	SR12-H
Temperature(°C)	24	Humidity (%RH)	60

Bandwidth (MHz)	Modulation	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
			26dB BW	99% BW	
5M	QPSK	779.5	4.890	4.491	N/A
		782	4.891	4.486	N/A
		784.5	4.865	4.467	N/A
	16-QAM	779.5	4.907	4.481	N/A
		782	4.853	4.468	N/A
		784.5	4.918	4.475	N/A
	64-QAM	779.5	4.896	4.487	N/A
		782	4.876	4.476	N/A
		784.5	4.881	4.480	N/A
10M	QPSK	782	9.654	8.935	N/A
	16-QAM	782	9.589	8.932	N/A
	64-QAM	782	9.575	8.922	N/A

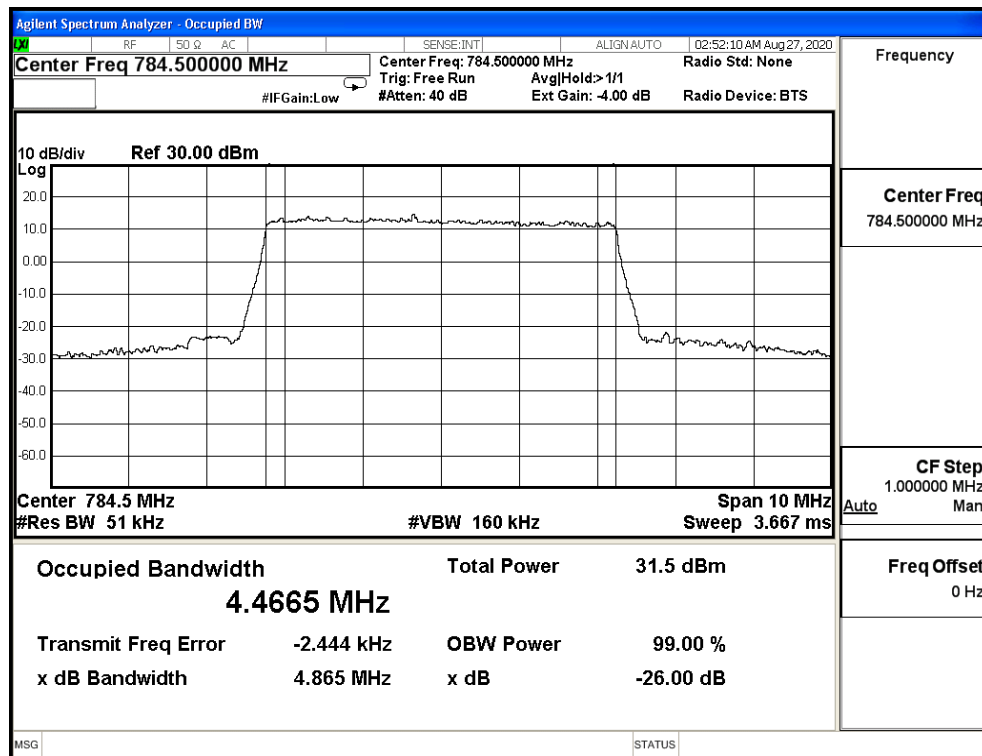
QPSK_CH23205_5M



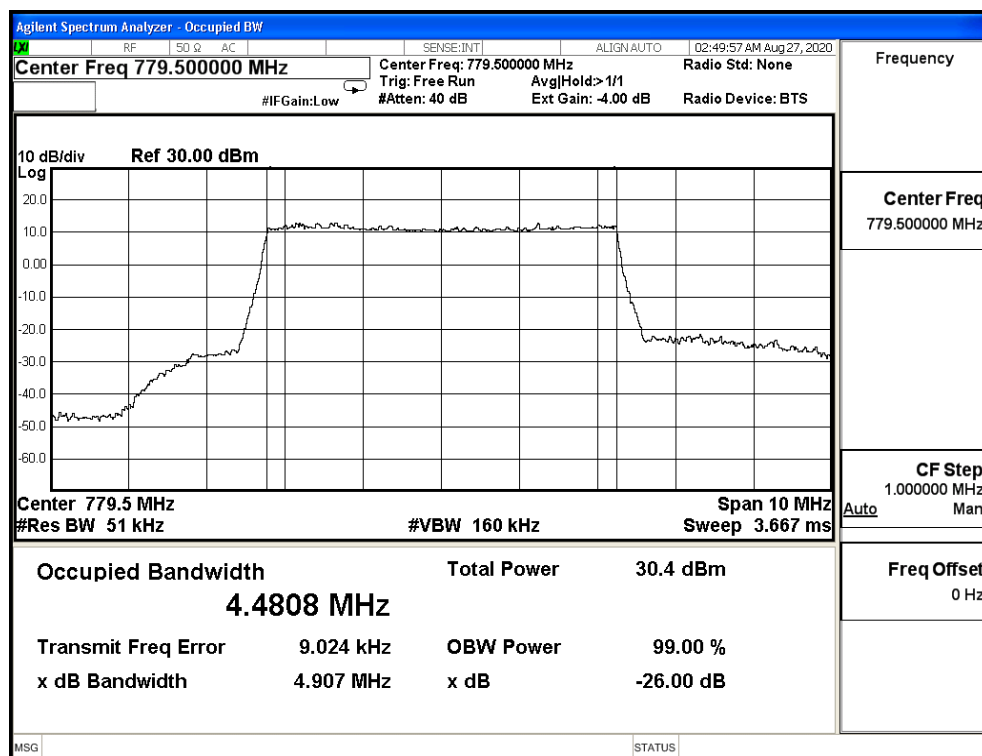
QPSK_CH23230_5M



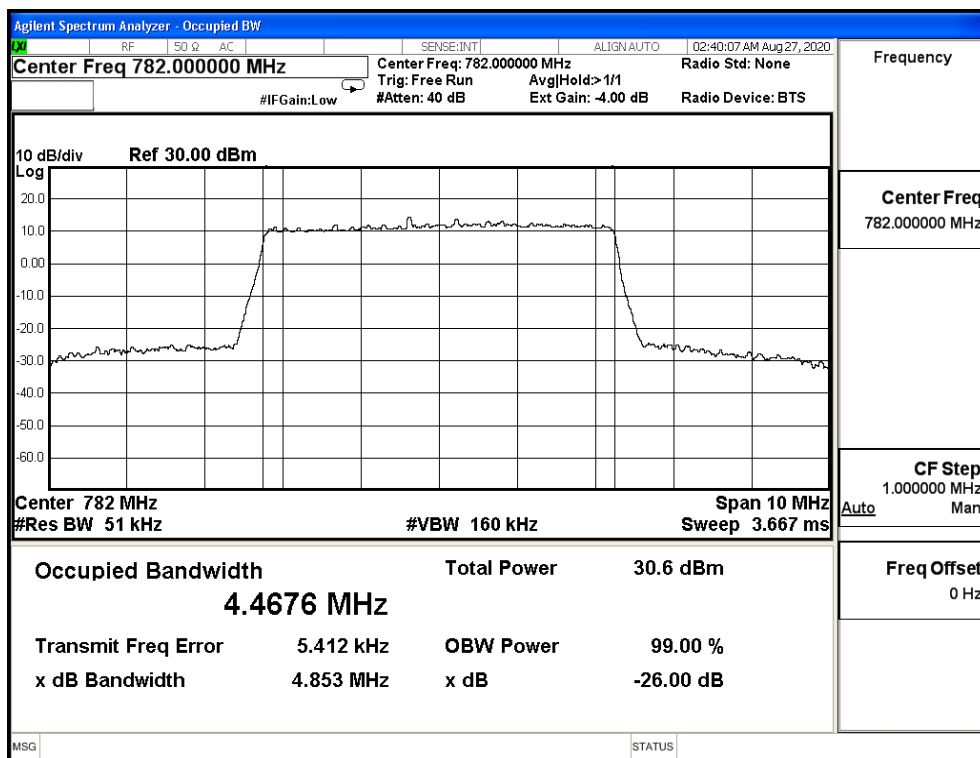
QPSK_CH23255_5M



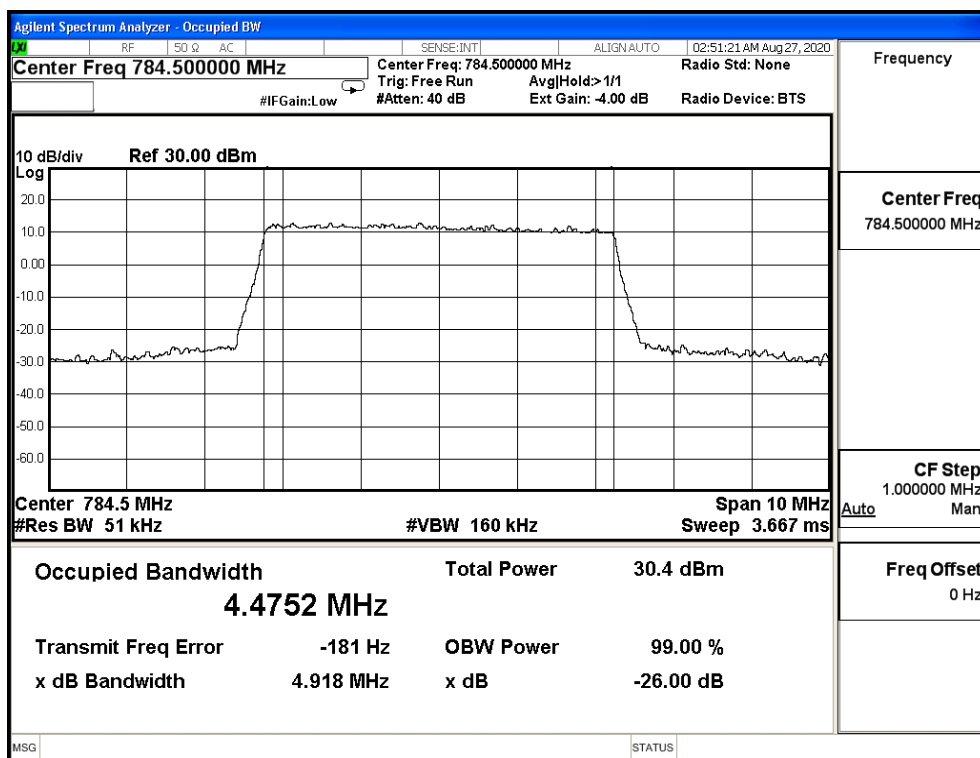
16QAM_CH23205_5M



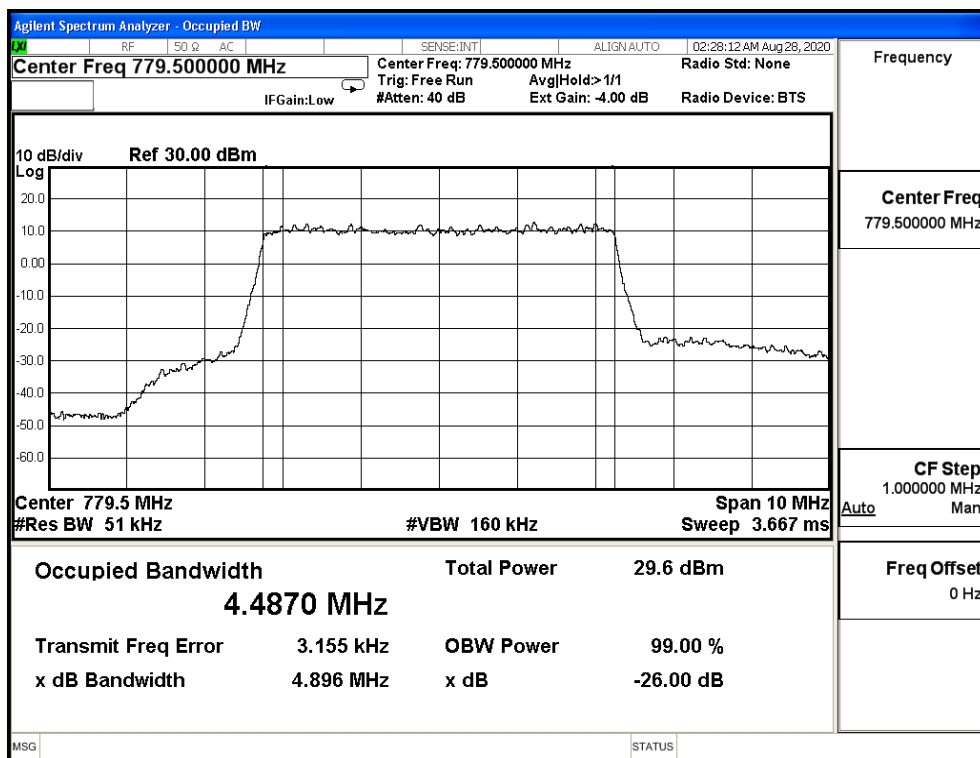
16QAM_CH23230_5M



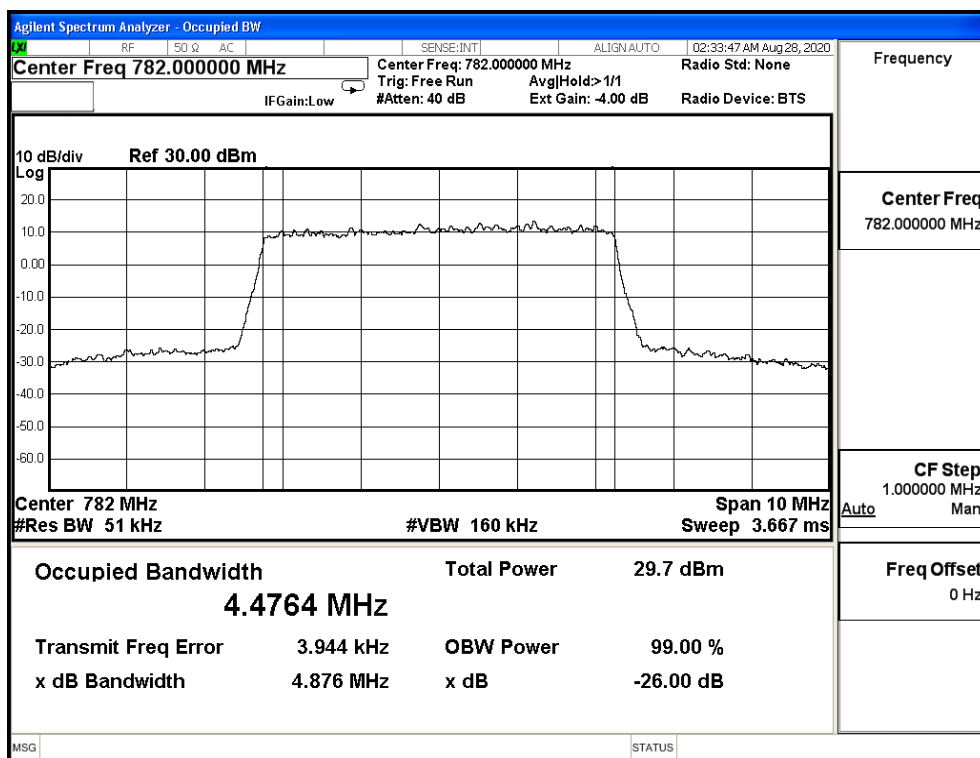
16QAM_CH23255_5M



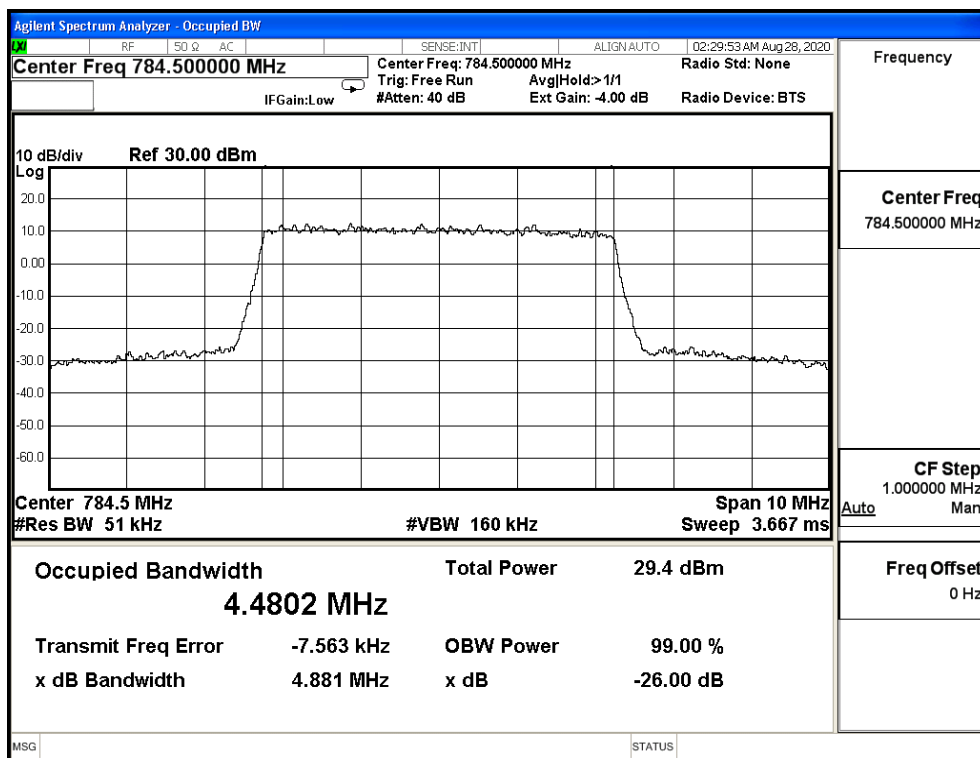
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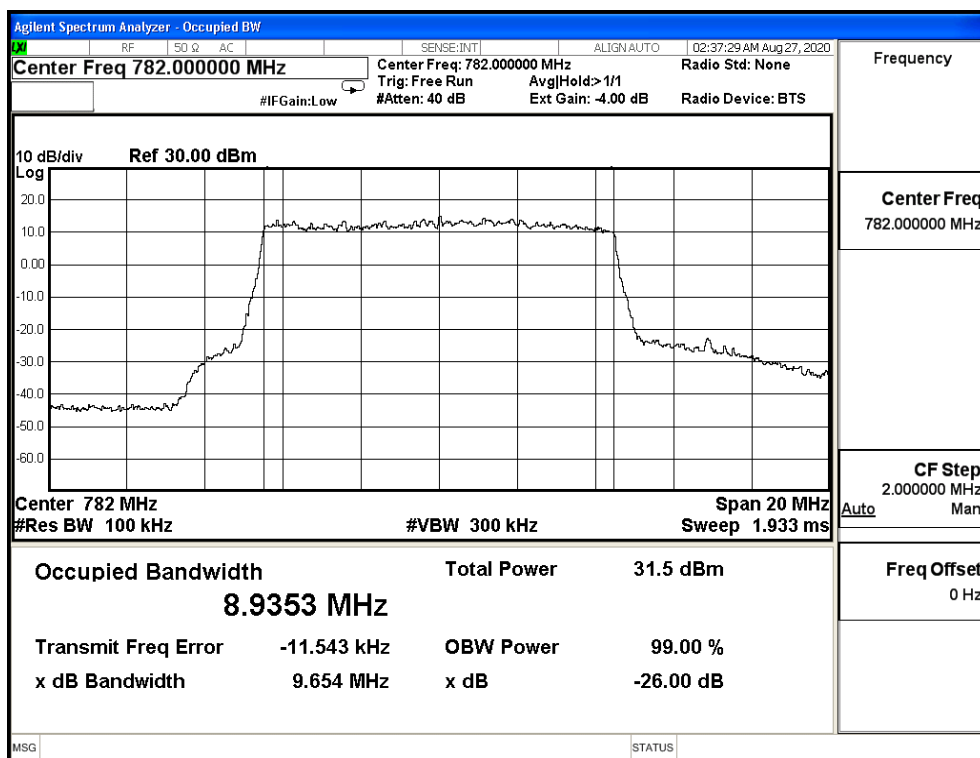
64QAM_CH23230_5M



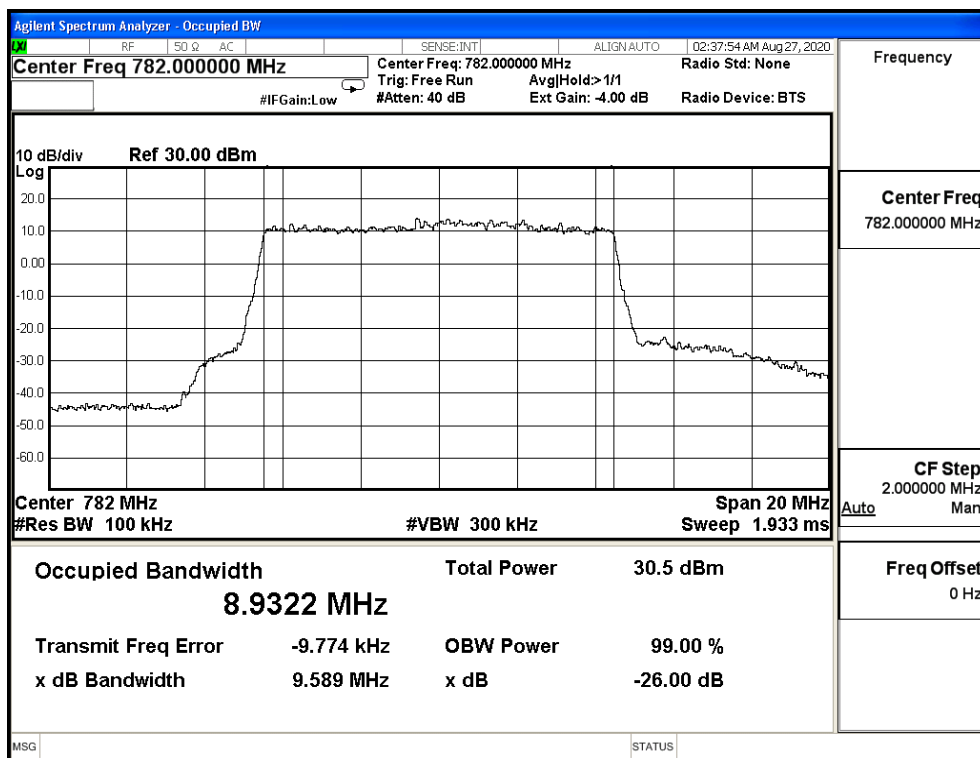
64QAM_CH23255_5M



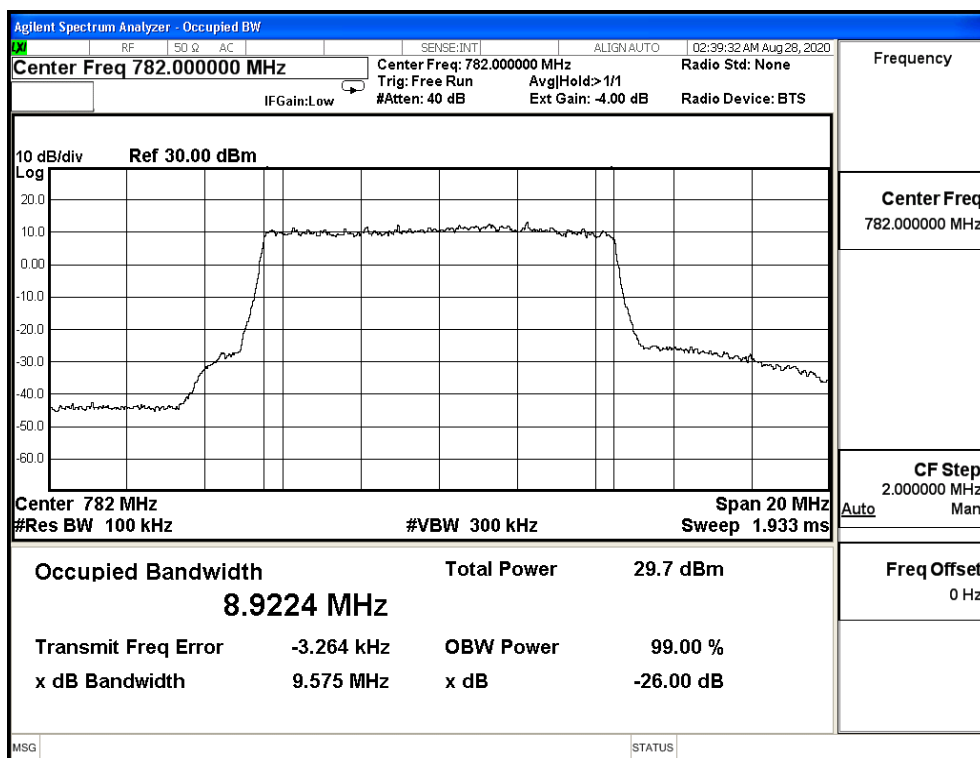
CH23230_QPSK_10M



CH23230_16QAM_10M



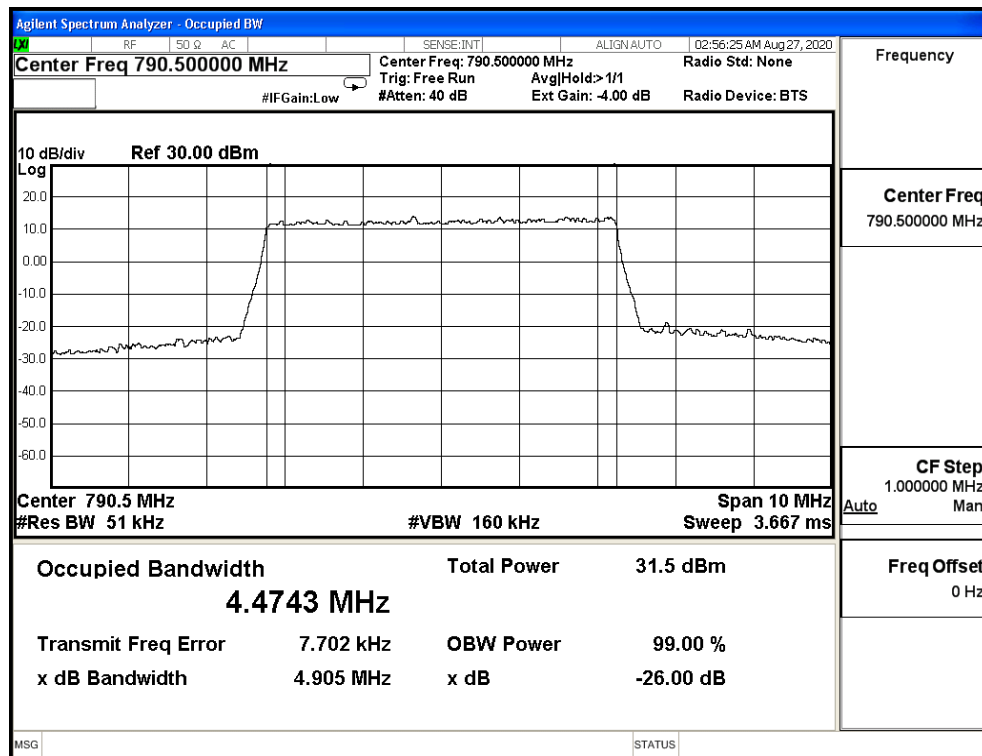
CH23230_64QAM_10M



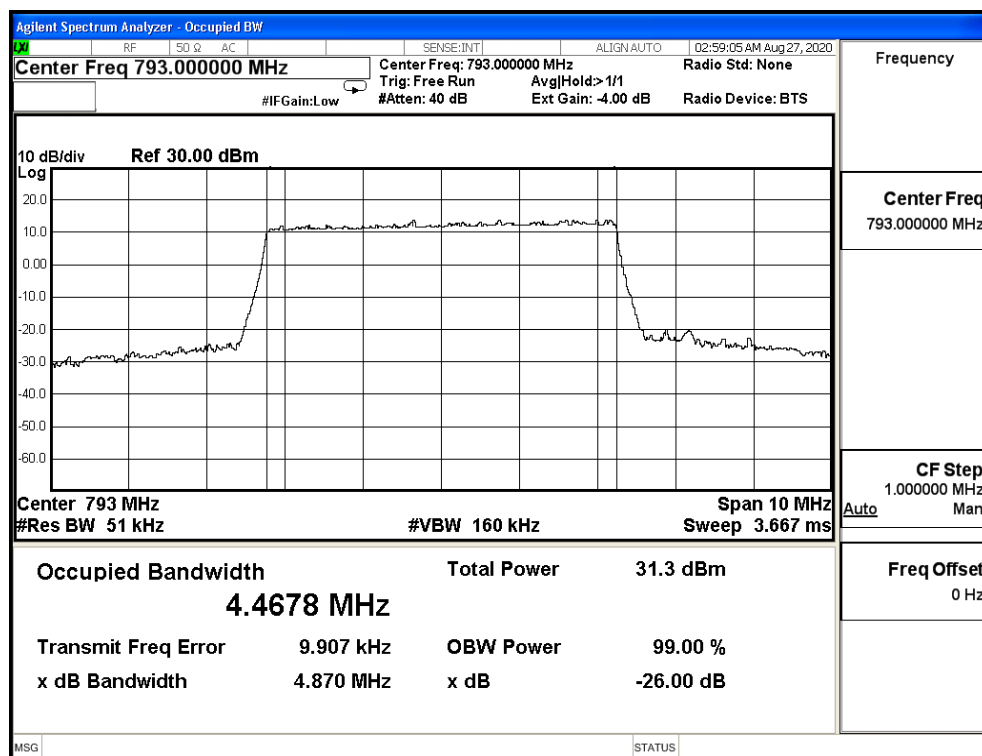
Product	Module		
Test Item	Occupied Bandwidth		
Test Mode	Mode 7: LTE Band 14		
Date of Test	2020/09/02	Test Site	SR12-H
Temperature(°C)	24	Humidity (%RH)	60

Bandwidth (MHz)	Modulation	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
			26dB BW	99% BW	
5M	QPSK	790.5	4.905	4.474	N/A
		793	4.870	4.468	N/A
		795.5	4.893	4.478	N/A
	16-QAM	790.5	4.934	4.484	N/A
		793	4.889	4.477	N/A
		795.5	4.872	4.471	N/A
	64-QAM	790.5	4.899	4.489	N/A
		793	4.879	4.483	N/A
		795.5	4.855	4.482	N/A
10M	QPSK	793	9.706	8.946	N/A
	16-QAM	793	9.563	8.946	N/A
	64-QAM	793	9.579	8.932	N/A

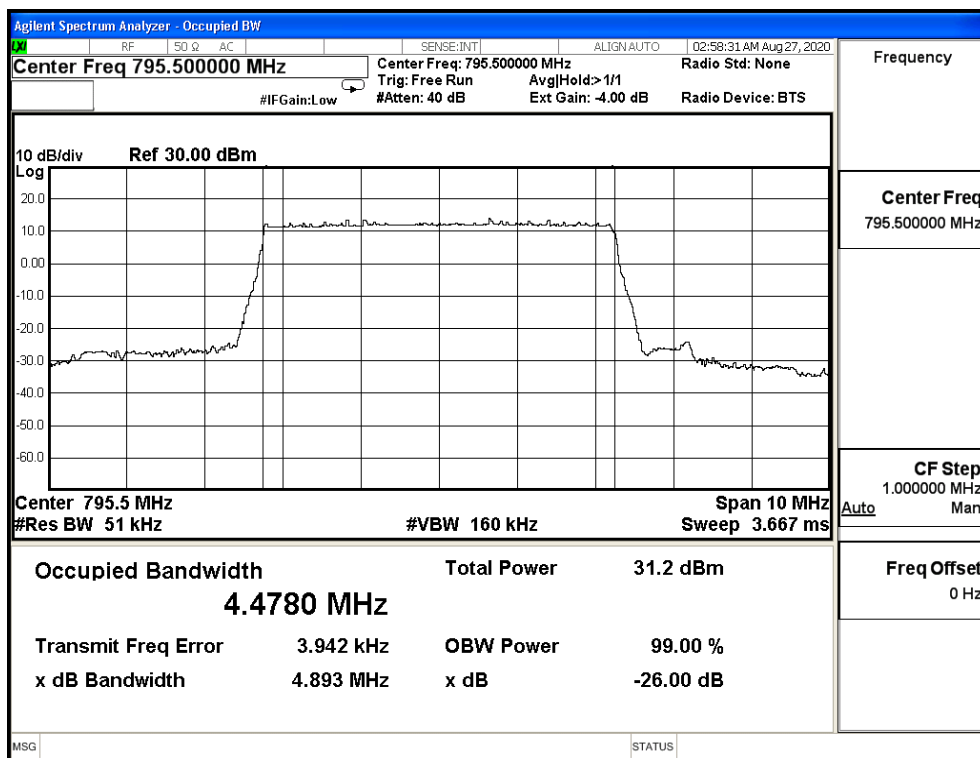
QPSK_CH23305_5M



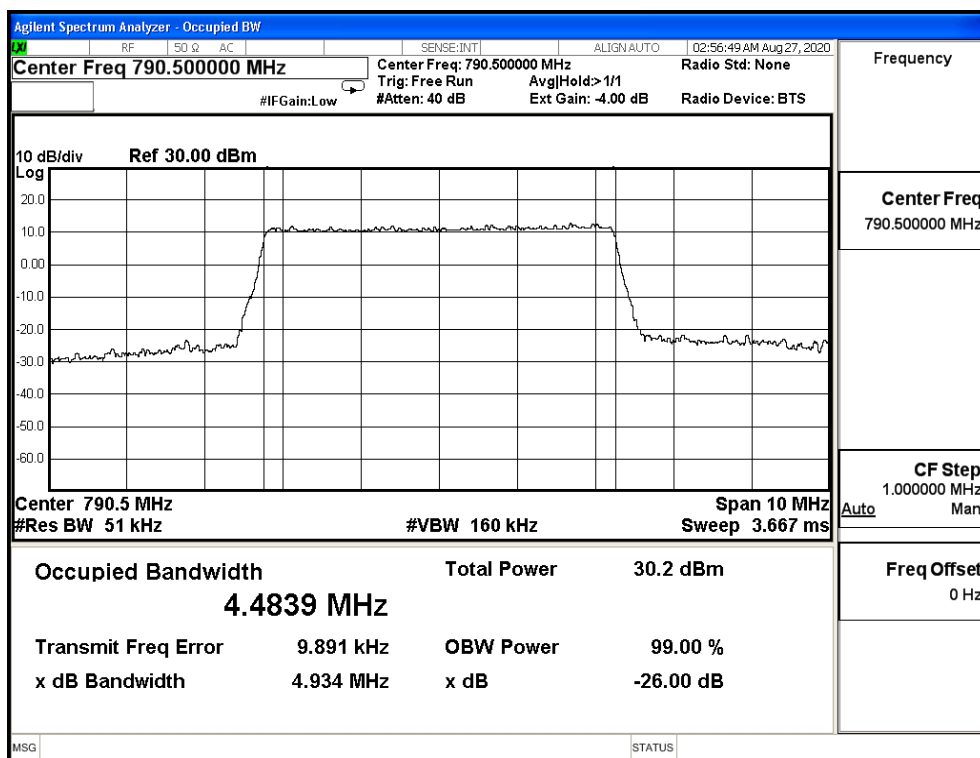
QPSK_CH23330_5M



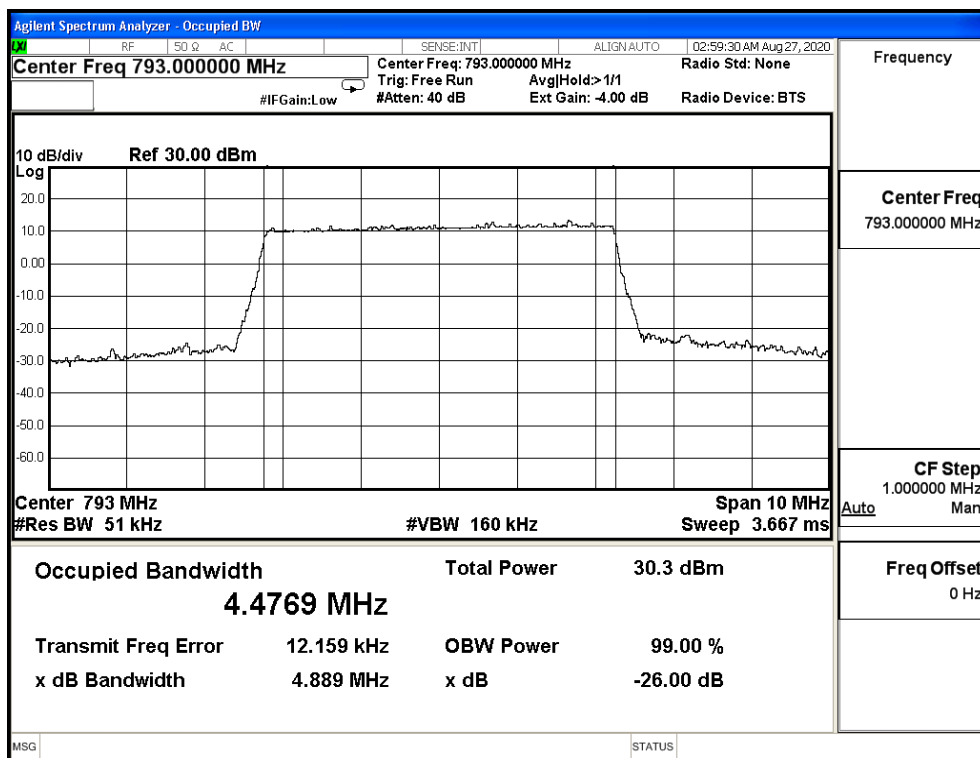
QPSK_CH23355_5M



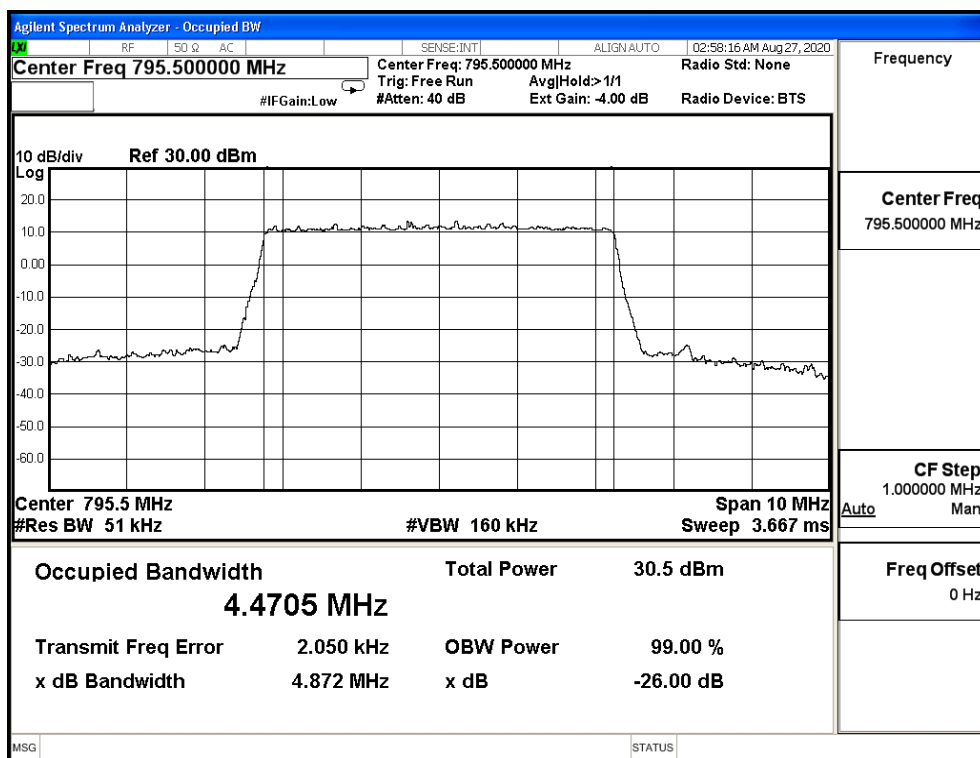
16QAM_CH23305_5M



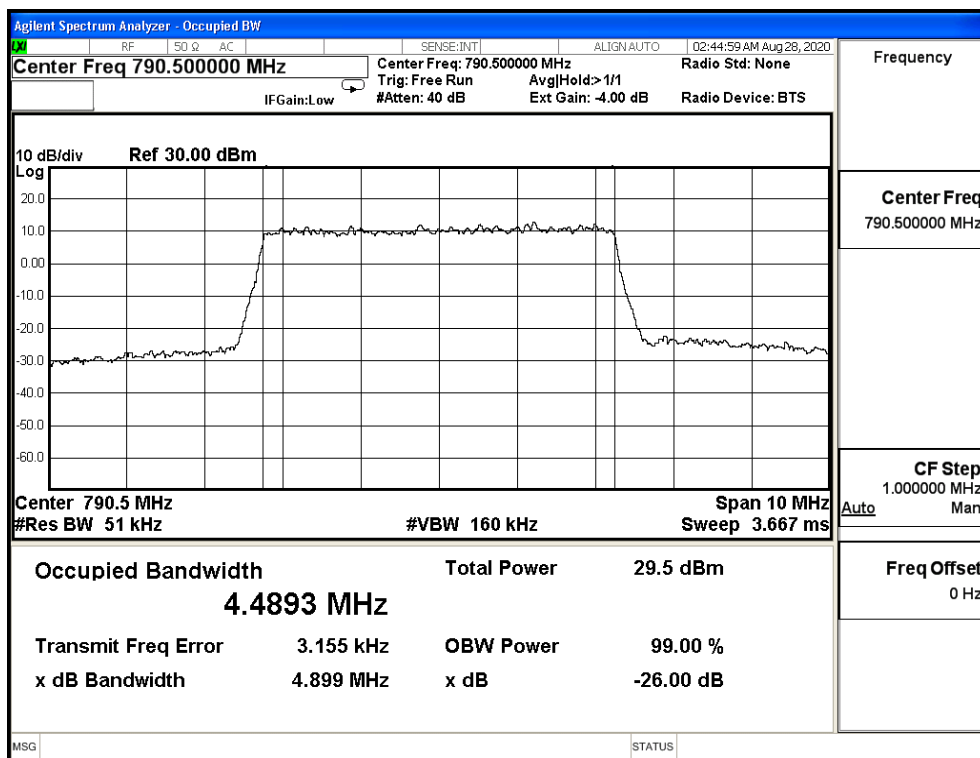
16QAM_CH23330_5M



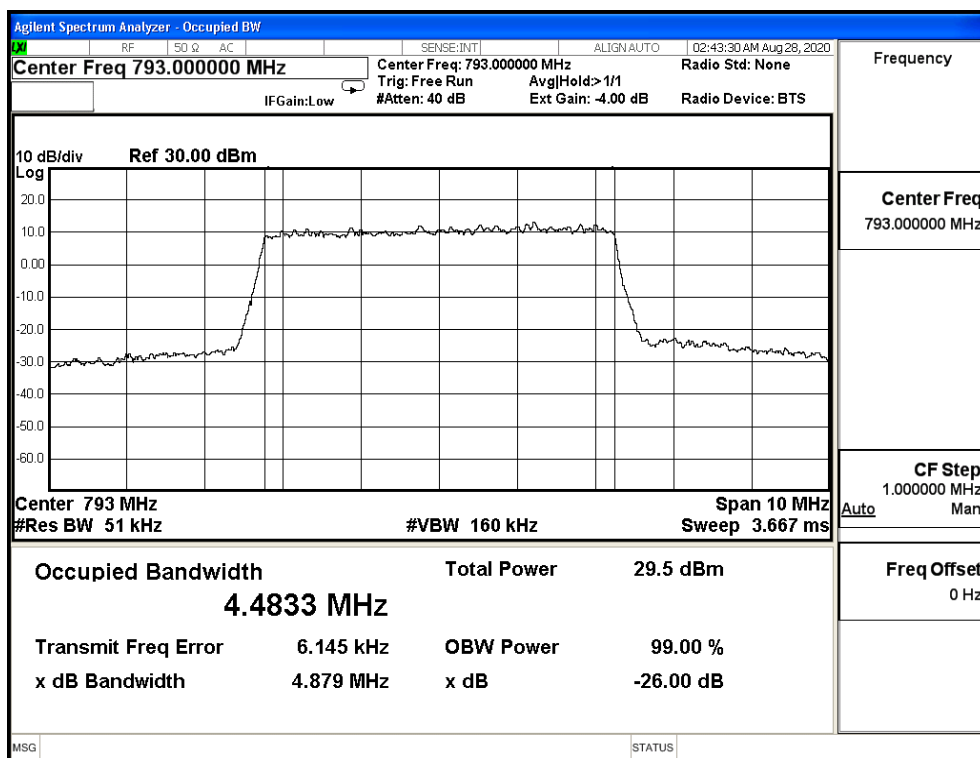
16QAM_CH23355_5M



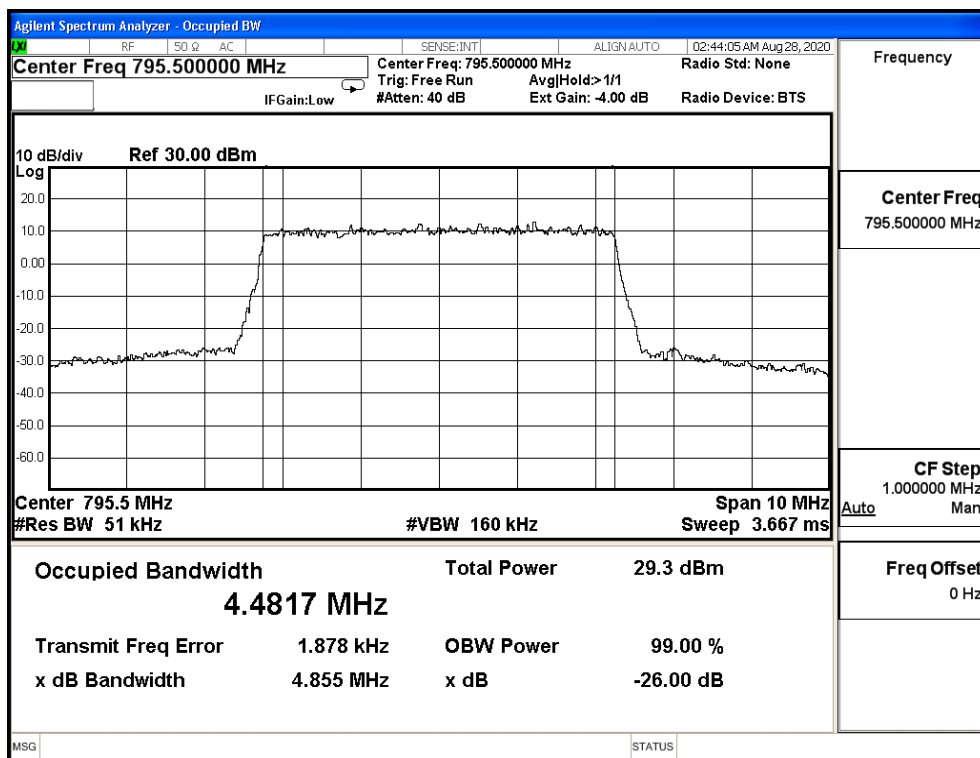
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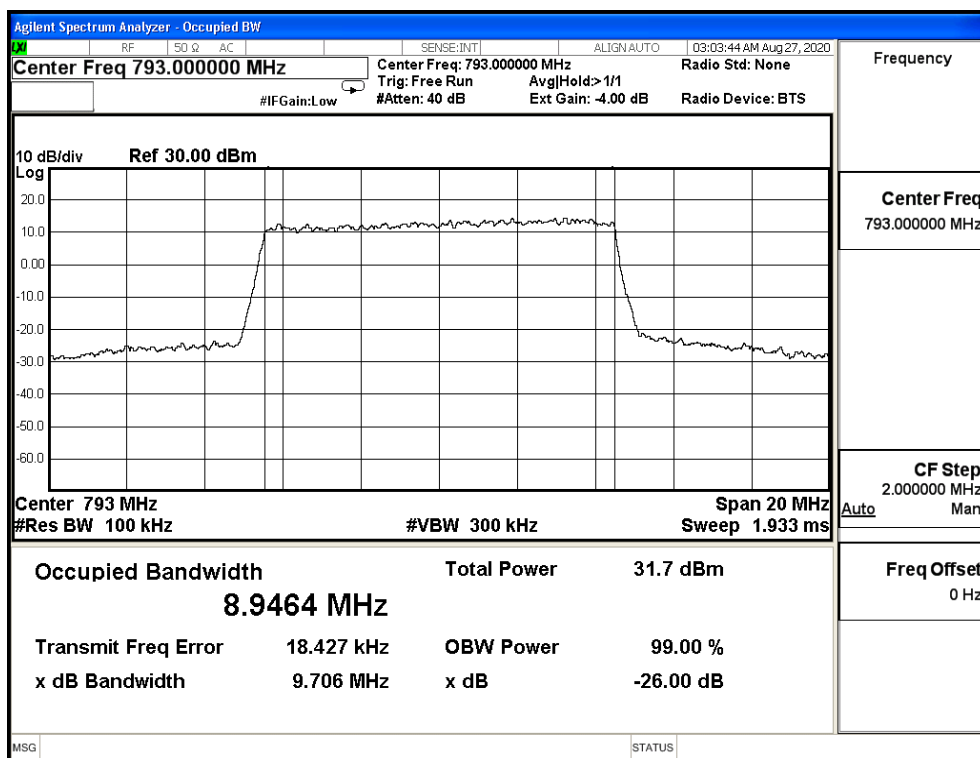
64QAM_CH23330_5M



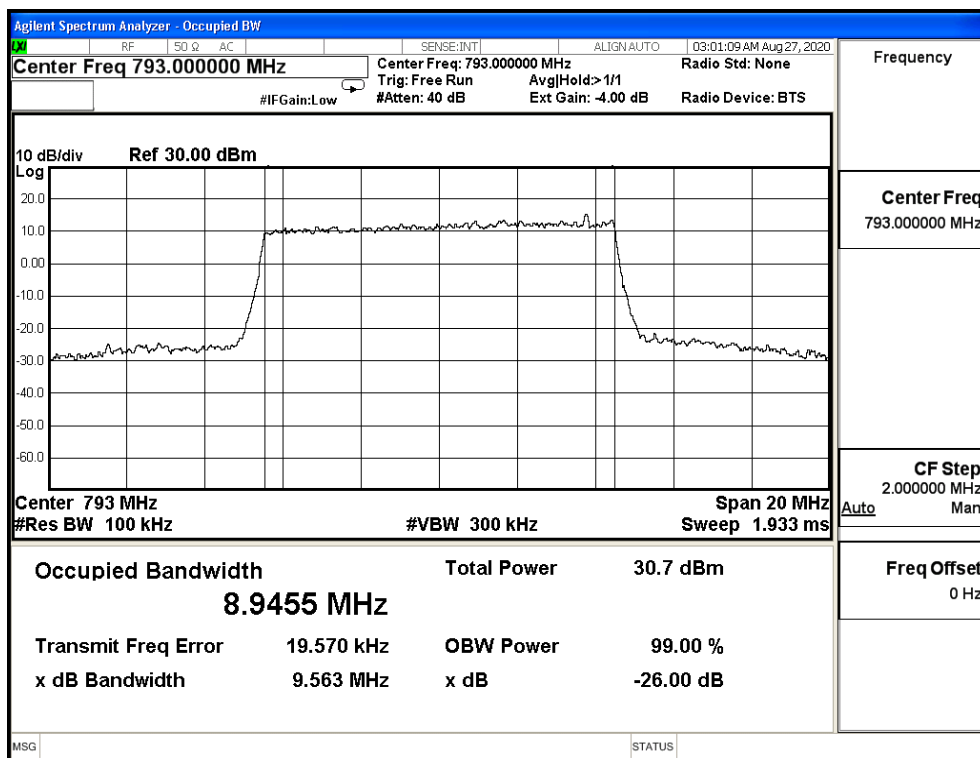
64QAM_CH23355_5M



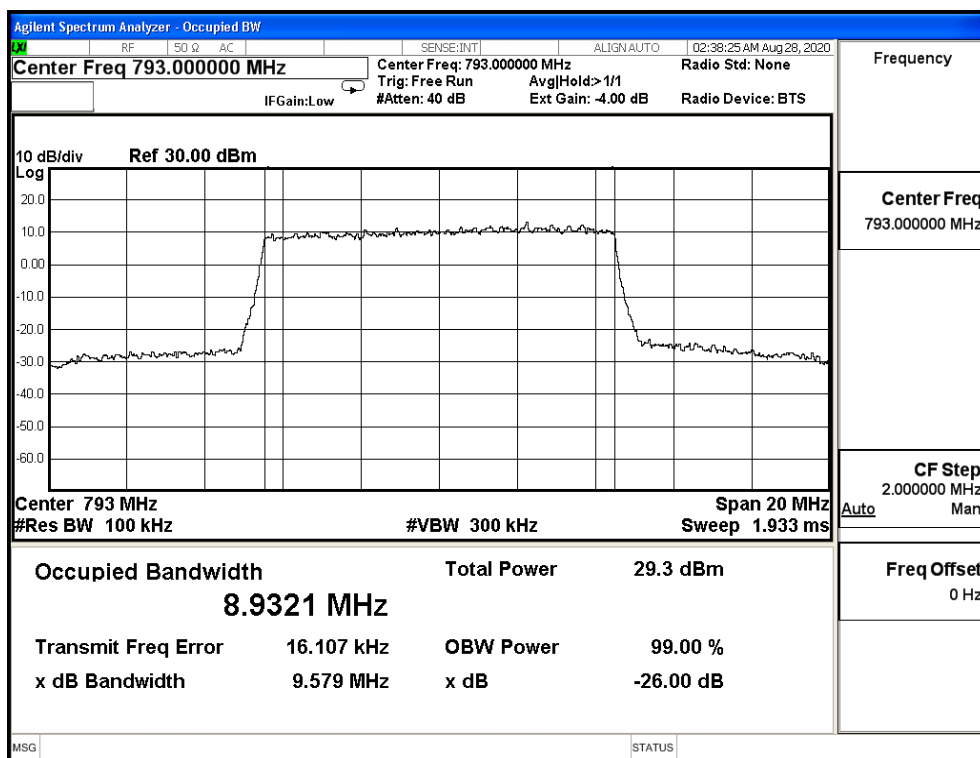
CH23330_QPSK_10M



CH23330_16QAM_10M



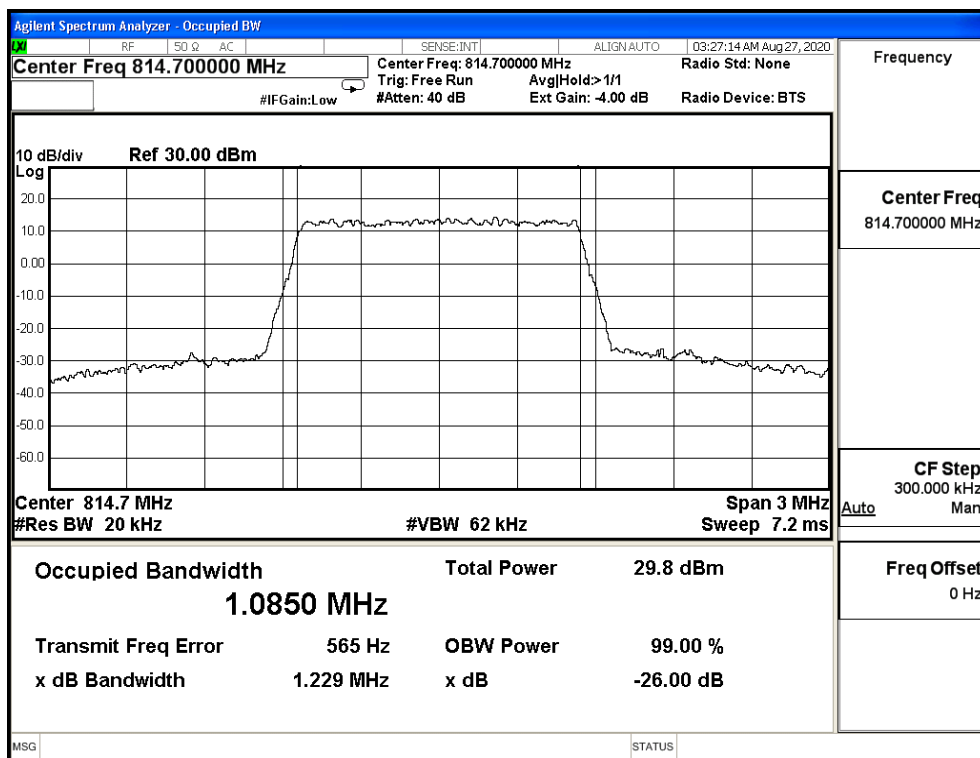
CH23330_64QAM_10M



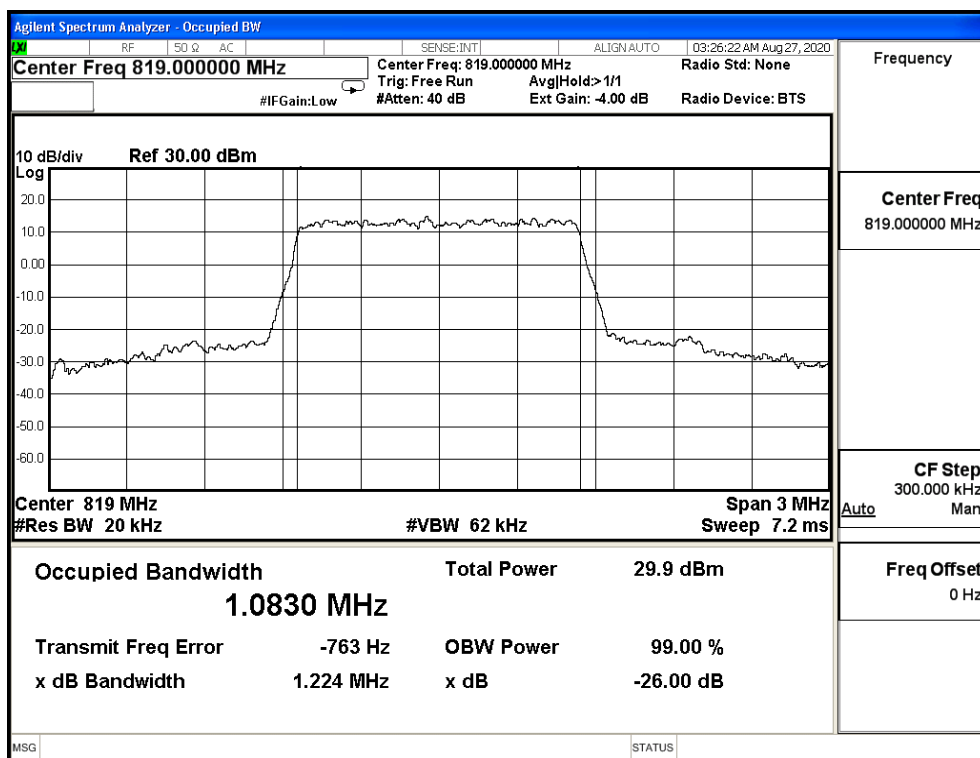
Product	Module		
Test Item	Occupied Bandwidth		
Test Mode	Mode 8: LTE Band 26 (Part 90)		
Date of Test	2020/09/02	Test Site	SR12-H
Temperature(°C)	24	Humidity (%RH)	60

Bandwidth (MHz)	Modulation	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
			26dB BW	99% BW	
1.4M	QPSK	814.7	1.229	1.085	N/A
		819	1.224	1.083	N/A
		823.3	1.222	1.094	N/A
	16-QAM	814.7	1.214	1.085	N/A
		819	1.238	1.086	N/A
		823.3	1.235	1.087	N/A
	64-QAM	814.7	1.215	1.079	N/A
		819	1.215	1.079	N/A
		823.3	1.212	1.079	N/A
3M	QPSK	815.5	2.939	2.692	N/A
		819	2.938	2.687	N/A
		822.5	2.952	2.686	N/A
	16-QAM	815.5	2.935	2.685	N/A
		819	2.931	2.682	N/A
		822.5	2.973	2.682	N/A
	64-QAM	815.5	2.916	2.681	N/A
		819	2.923	2.682	N/A
		822.5	2.924	2.684	N/A
5M	QPSK	816.5	4.863	4.485	N/A
		819	4.897	4.488	N/A
		821.5	4.887	4.467	N/A
	16-QAM	816.5	4.909	4.482	N/A
		819	4.837	4.473	N/A
		821.5	4.875	4.467	N/A
	64-QAM	816.5	4.866	4.483	N/A
		819	4.895	4.483	N/A
		821.5	4.887	4.482	N/A
10M	QPSK	819	9.690	8.940	N/A
	16-QAM	819	9.599	8.922	N/A
	64-QAM	819	9.600	8.924	N/A

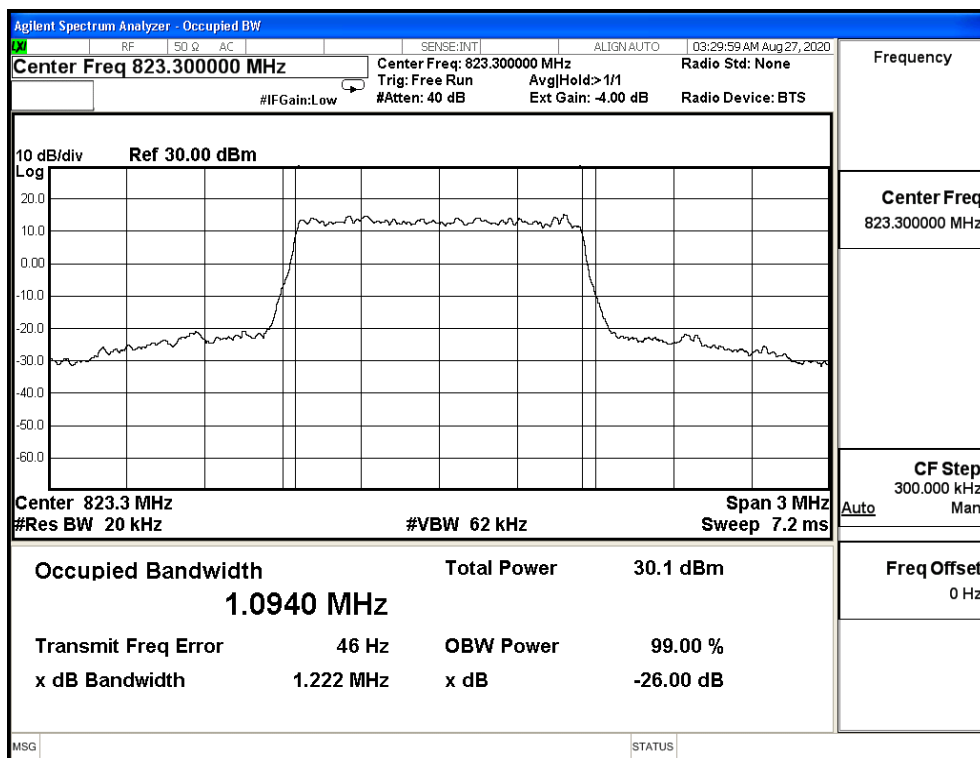
QPSK_CH26697_1.4M



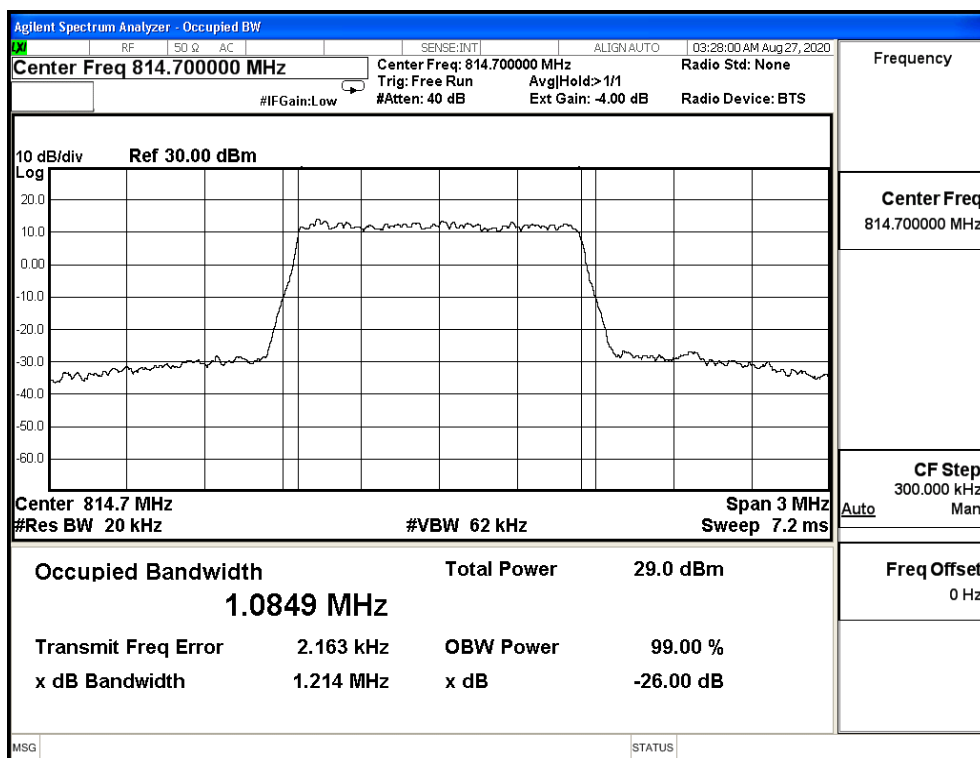
QPSK_CH26740_1.4M



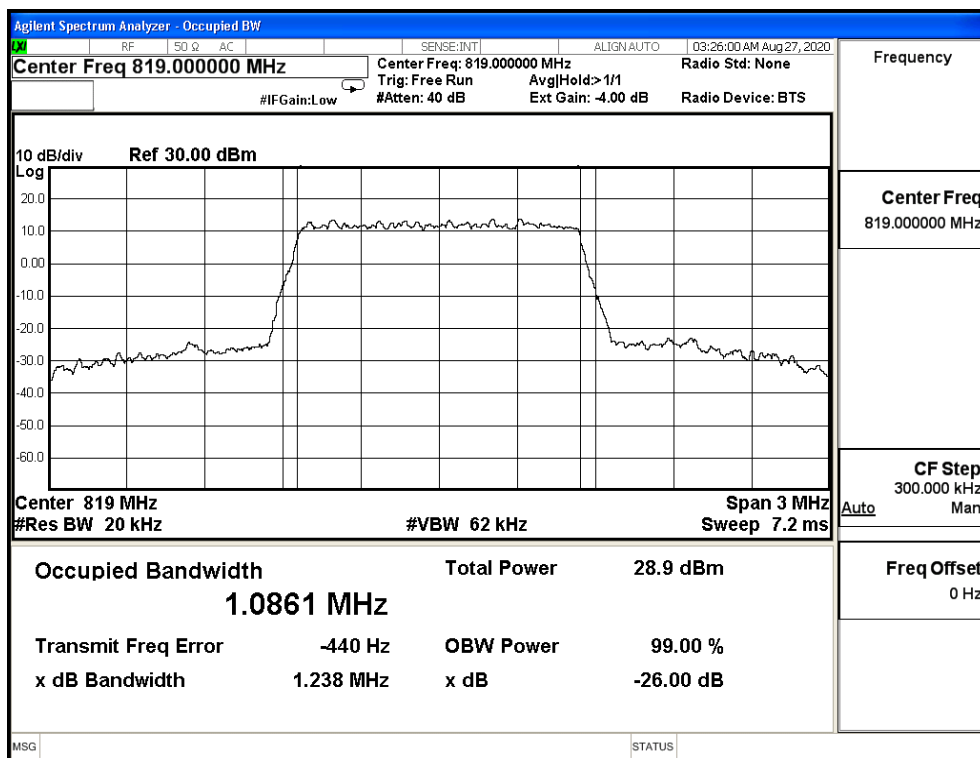
QPSK_CH26783_1.4M



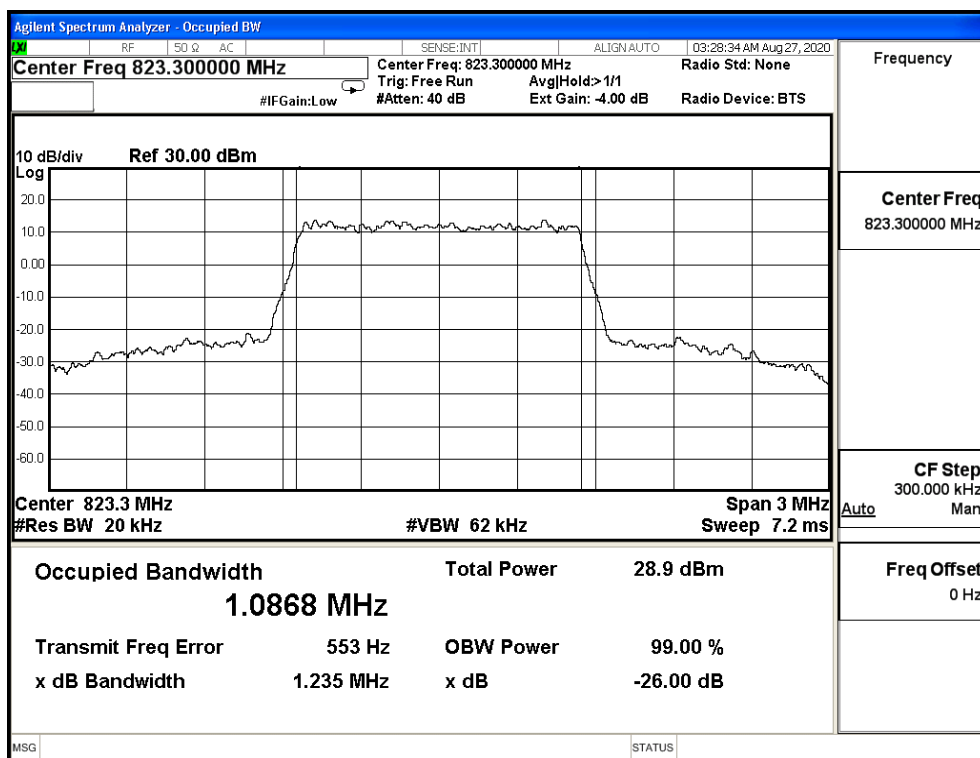
16QAM_CH26697_1.4M



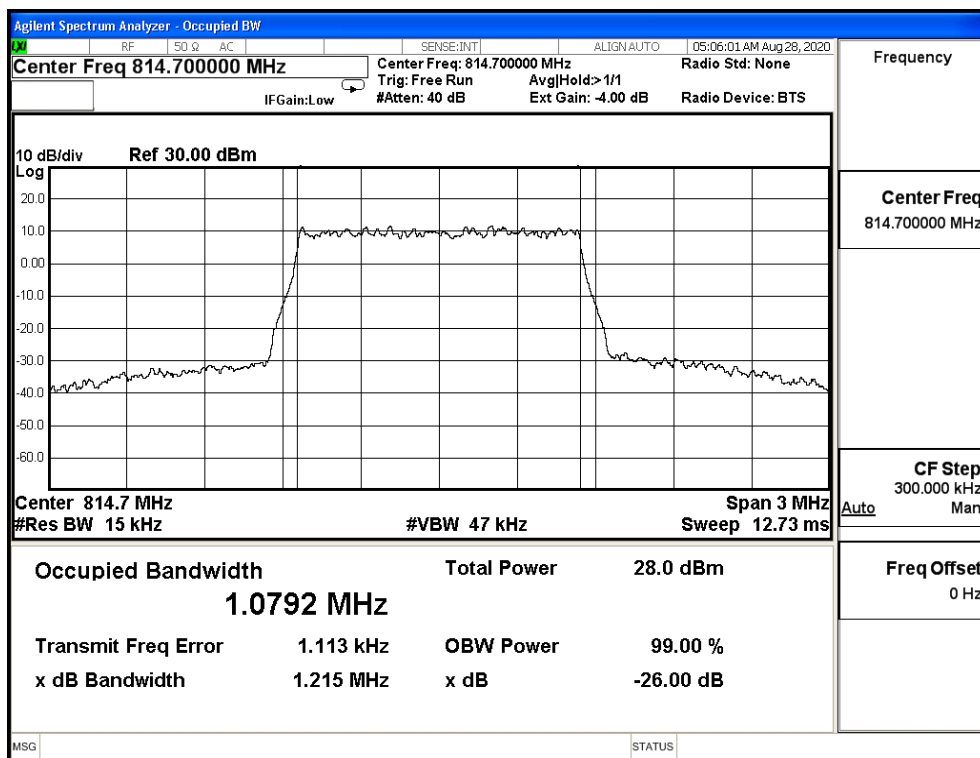
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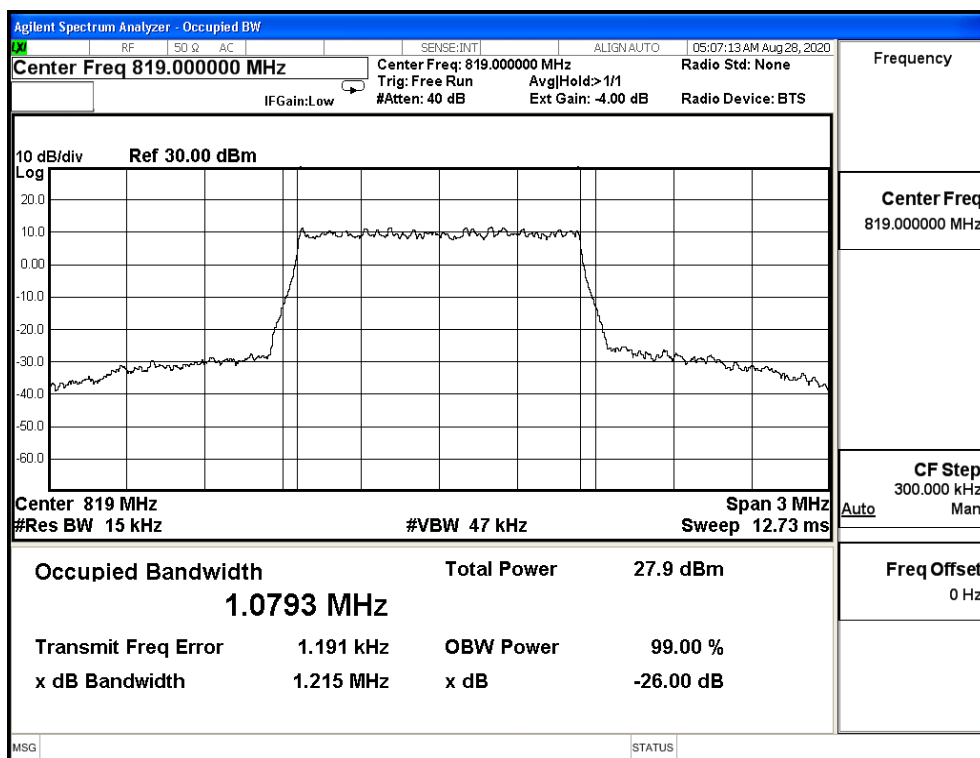
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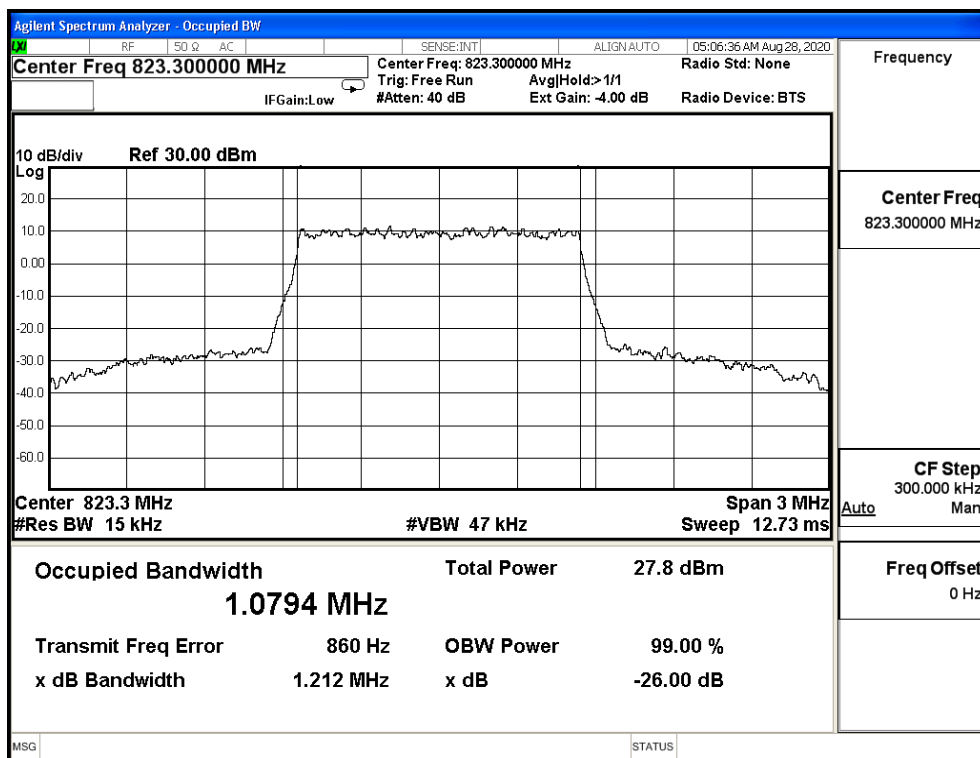
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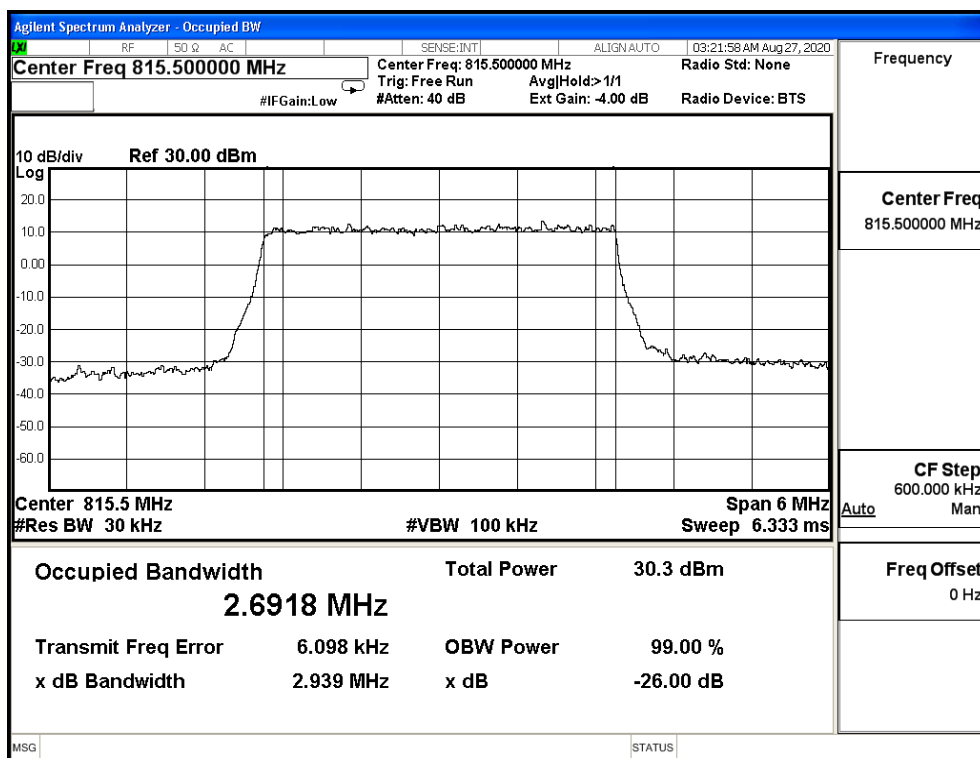
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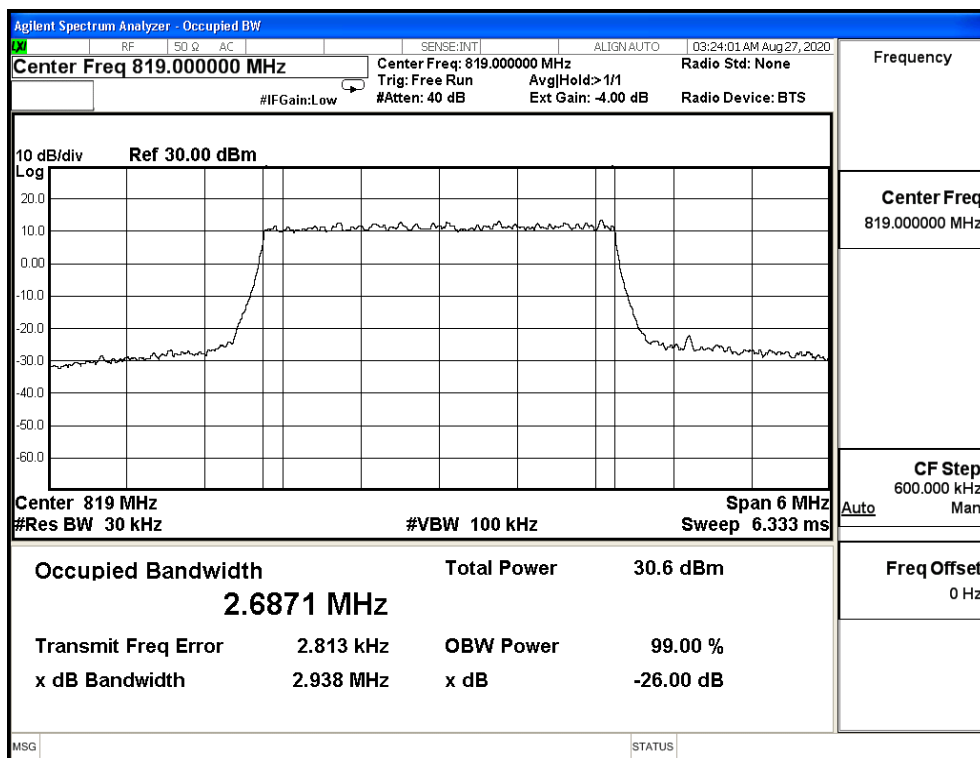
64QAM_CH26783_1.4M



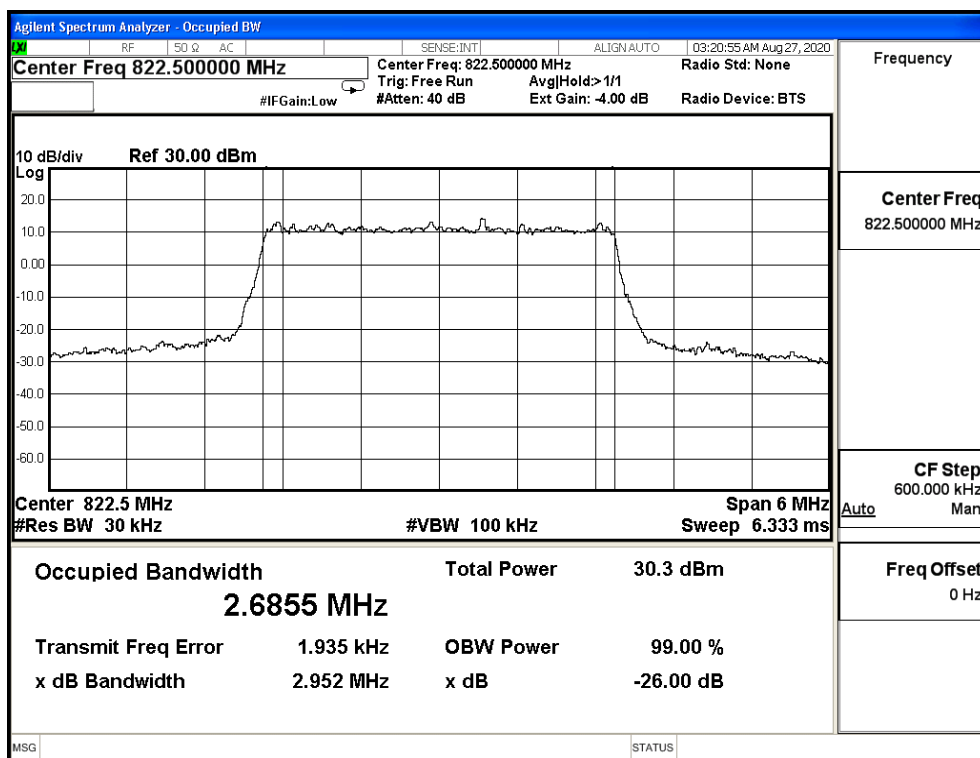
QPSK_CH26705_3M



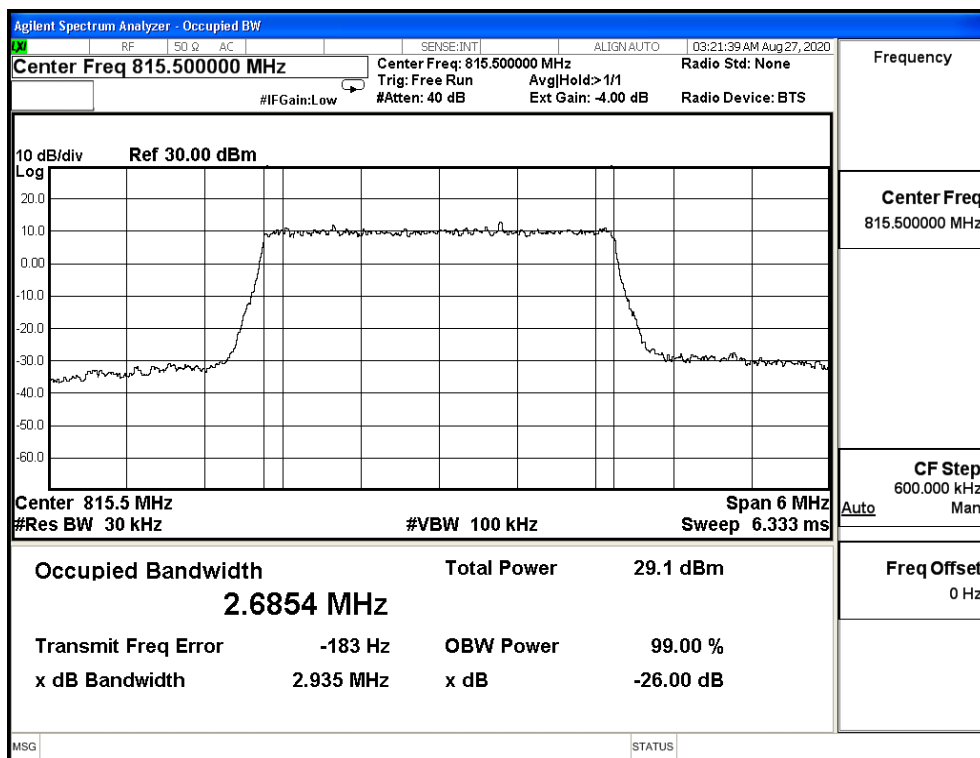
QPSK_CH26740_3M



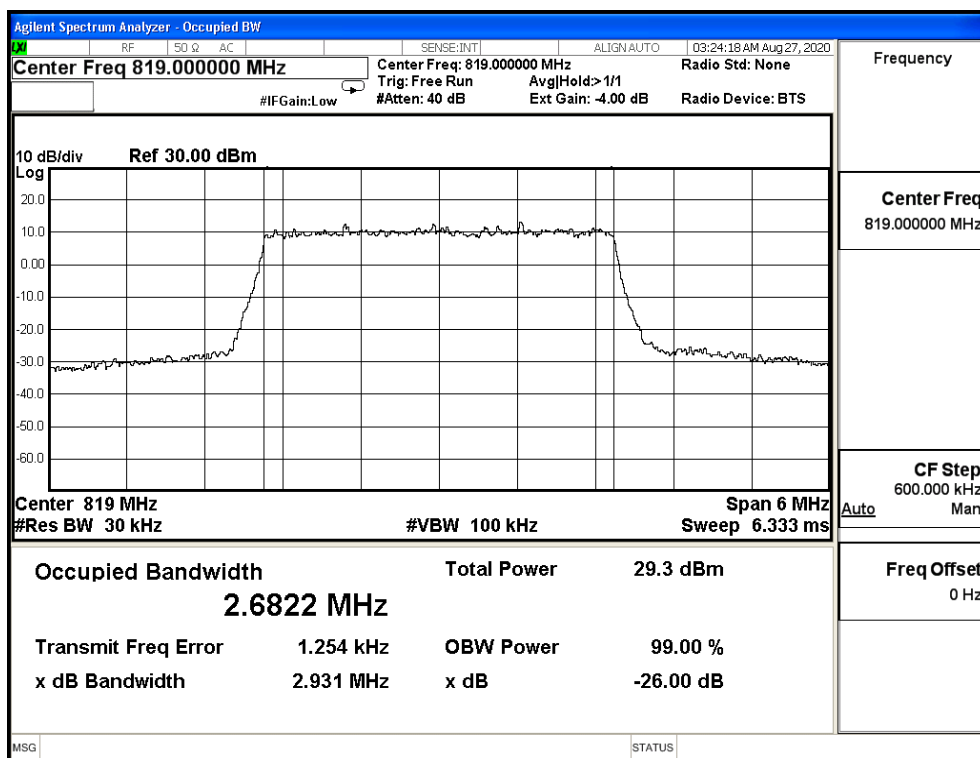
QPSK_CH26775_3M



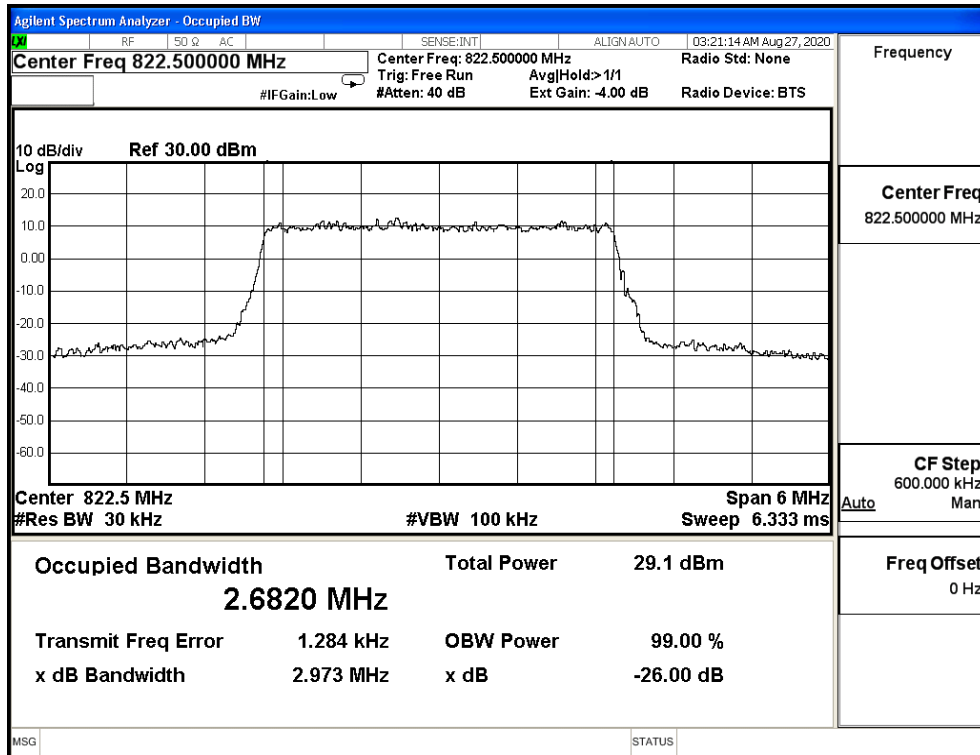
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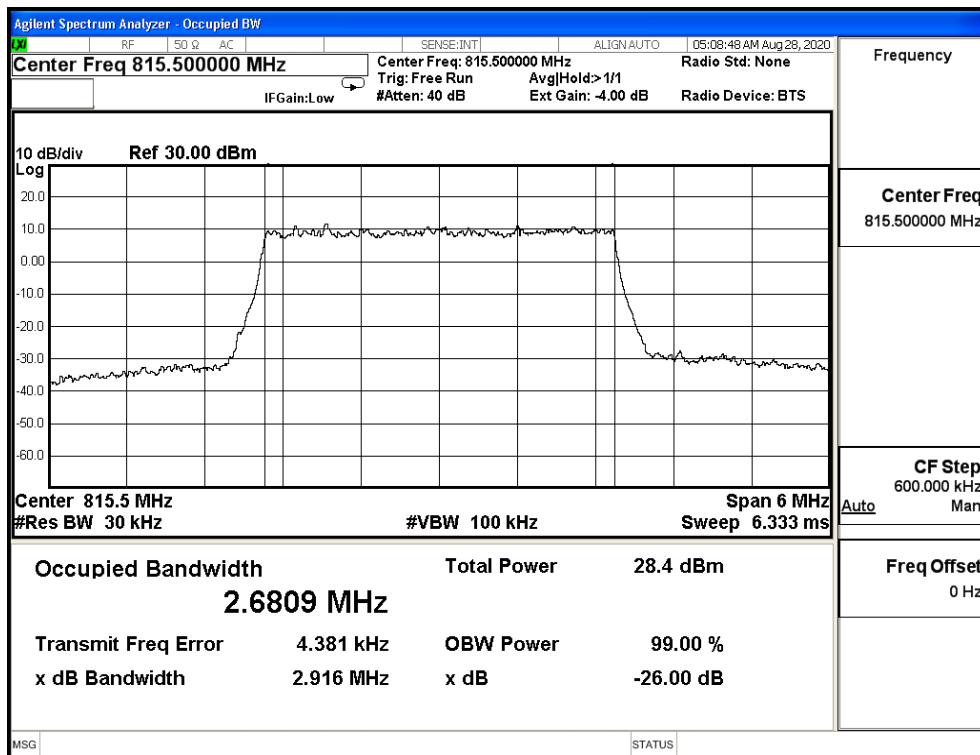
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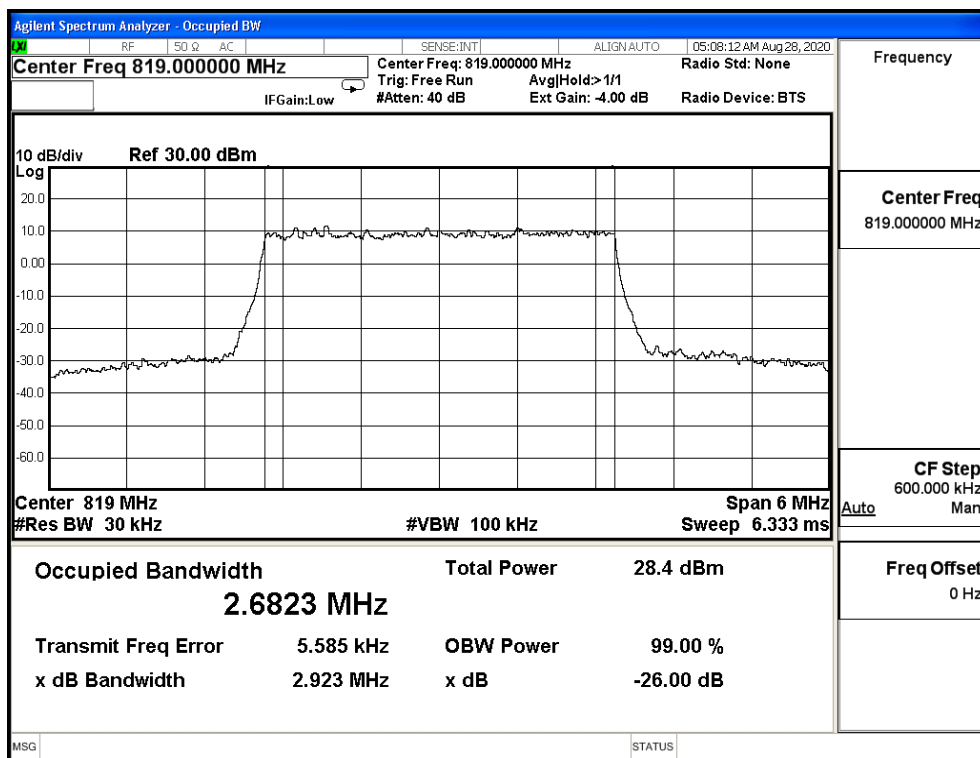
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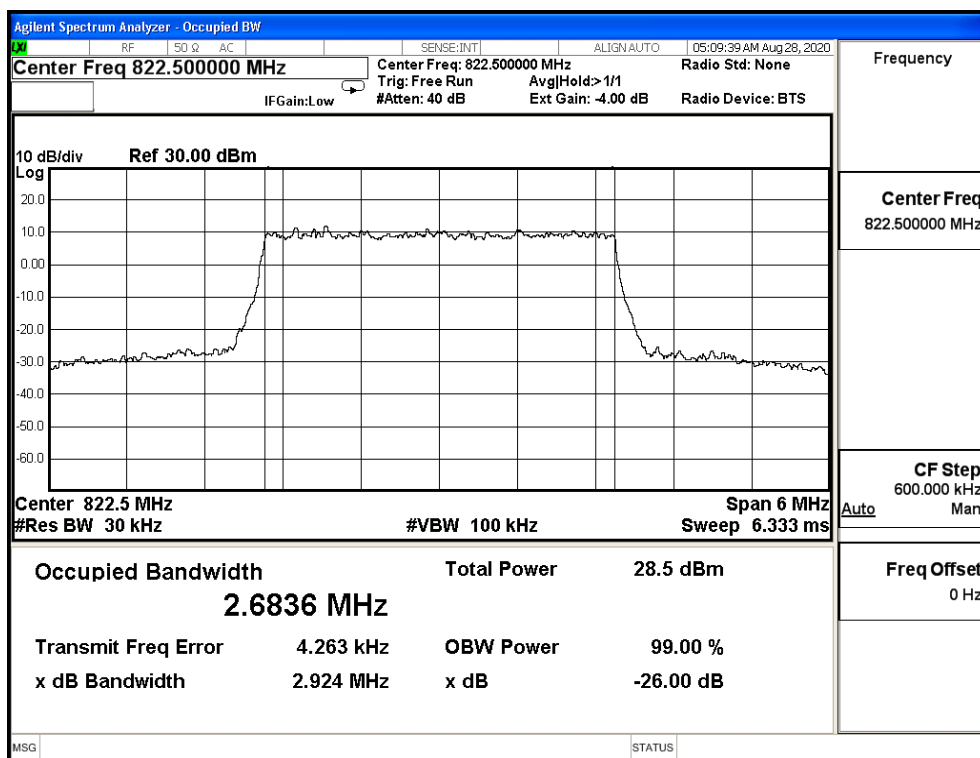
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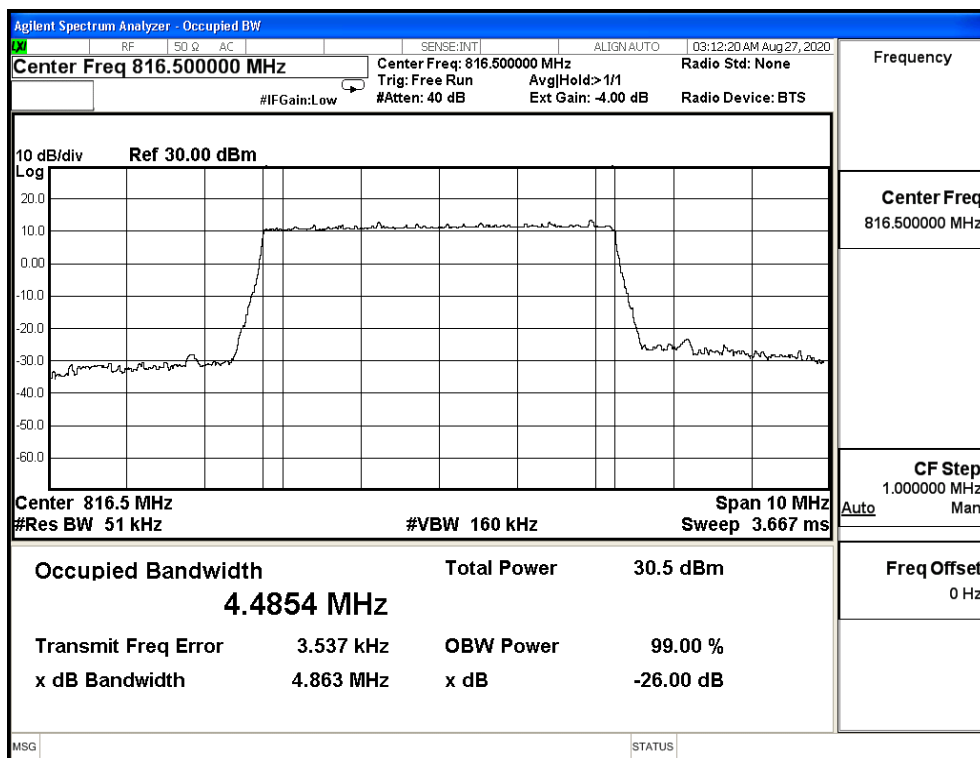
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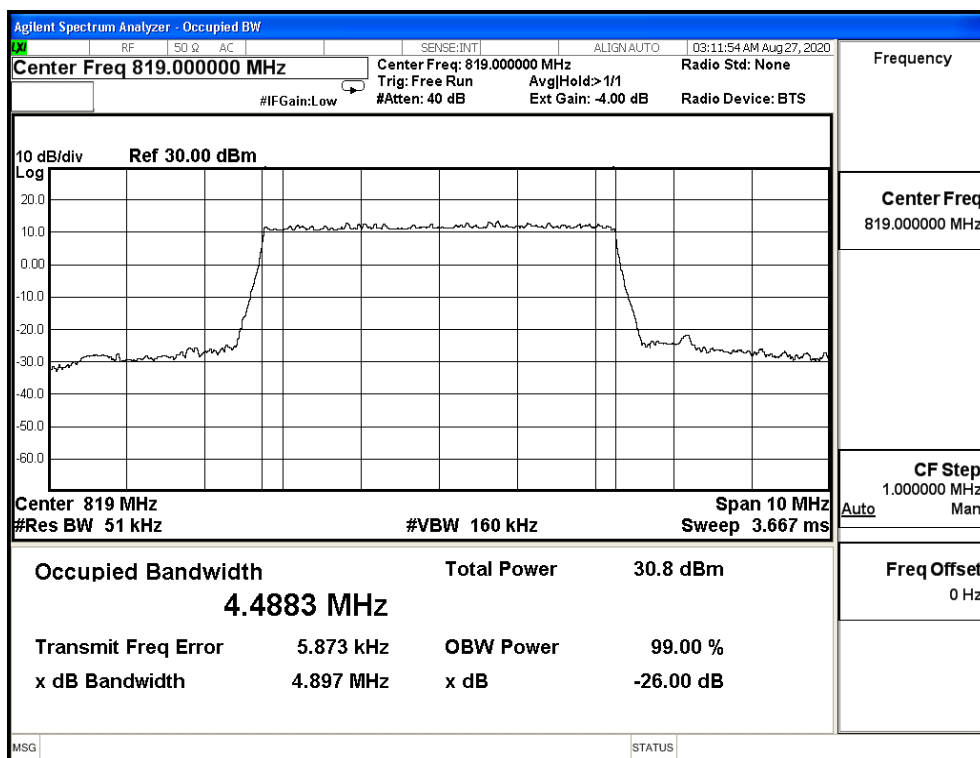
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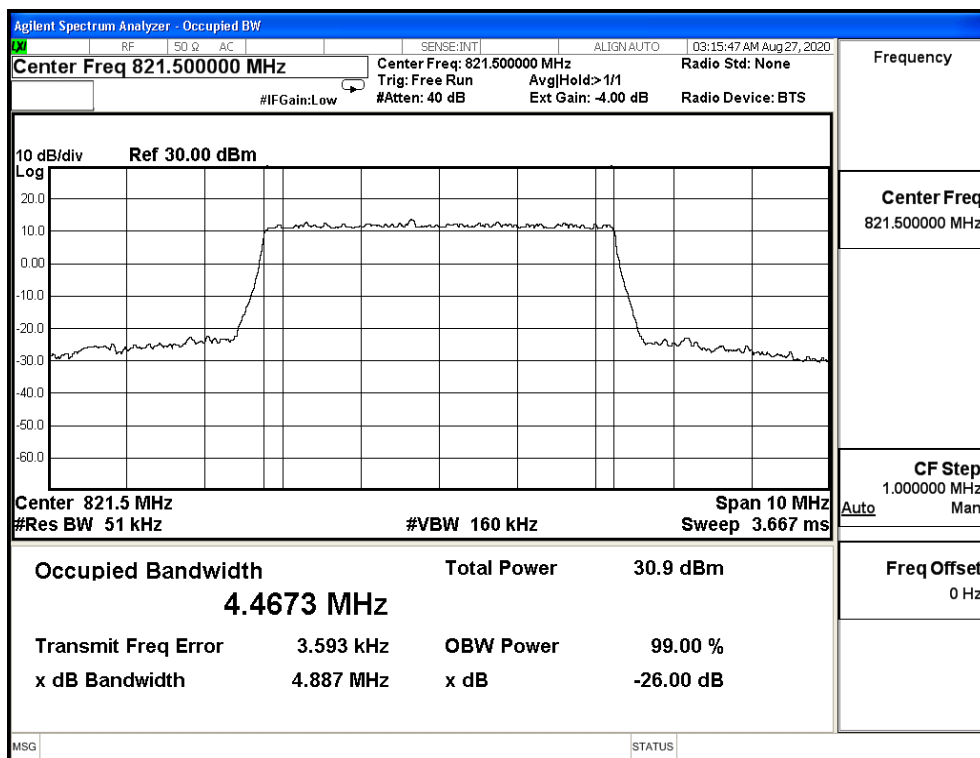
QPSK_CH26715_5M



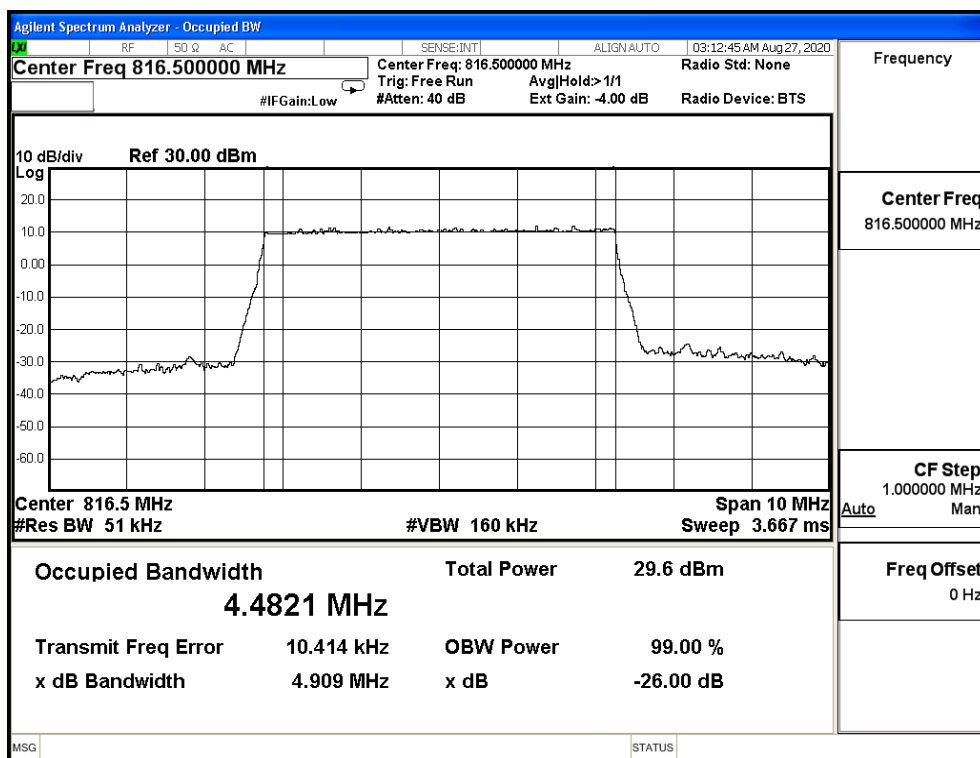
QPSK_CH26740_5M



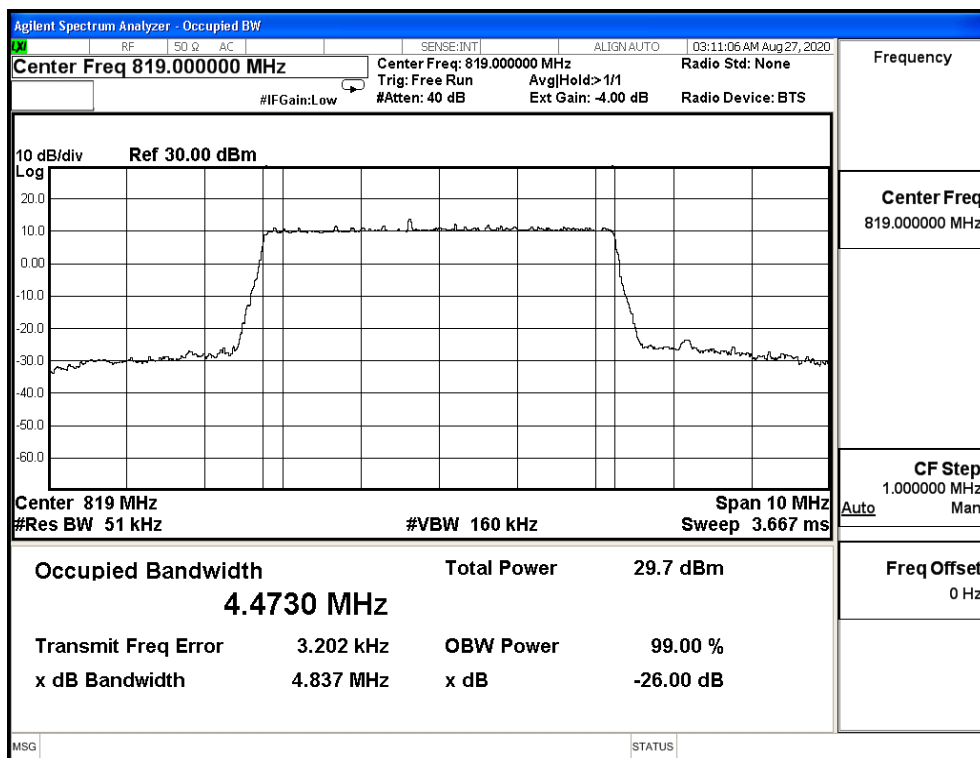
QPSK_CH26765_5M



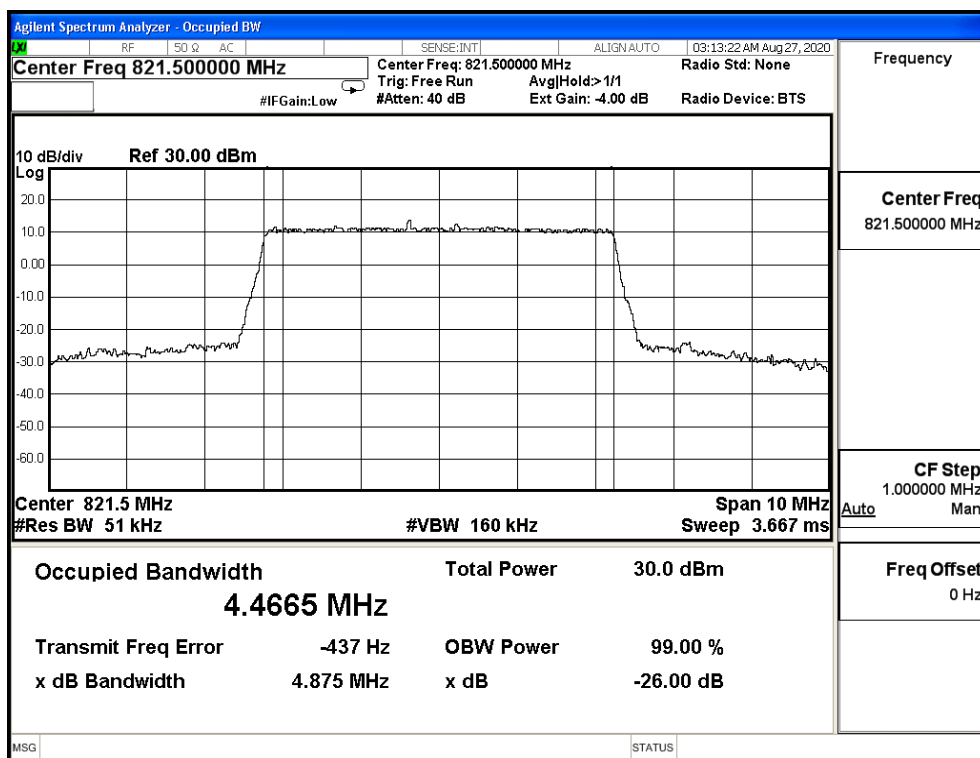
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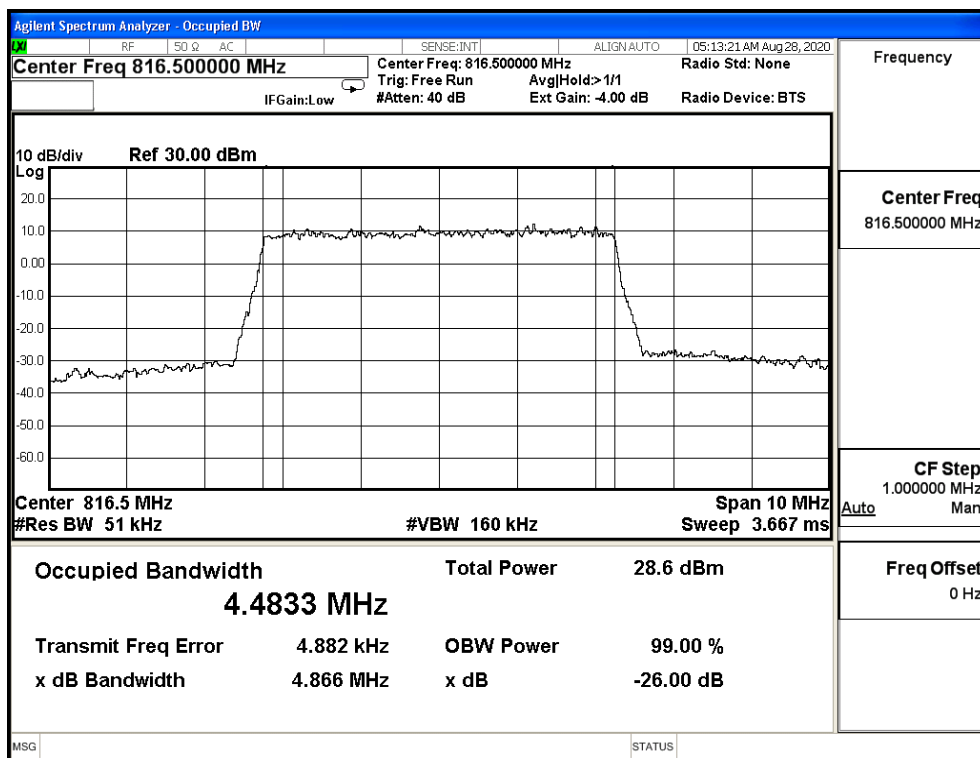
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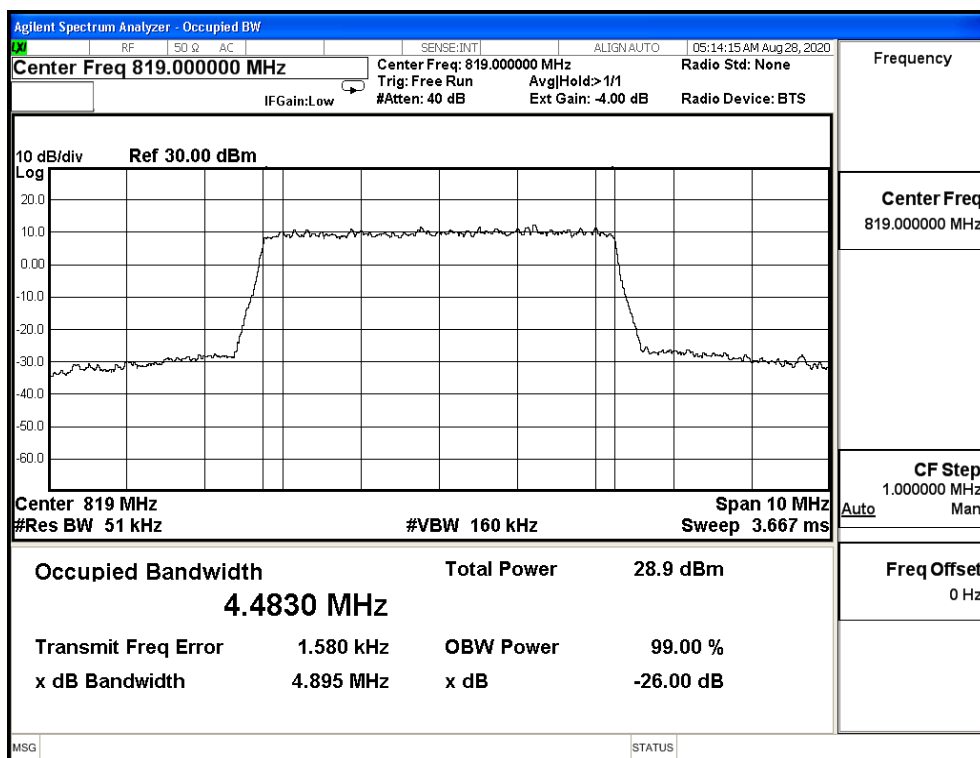
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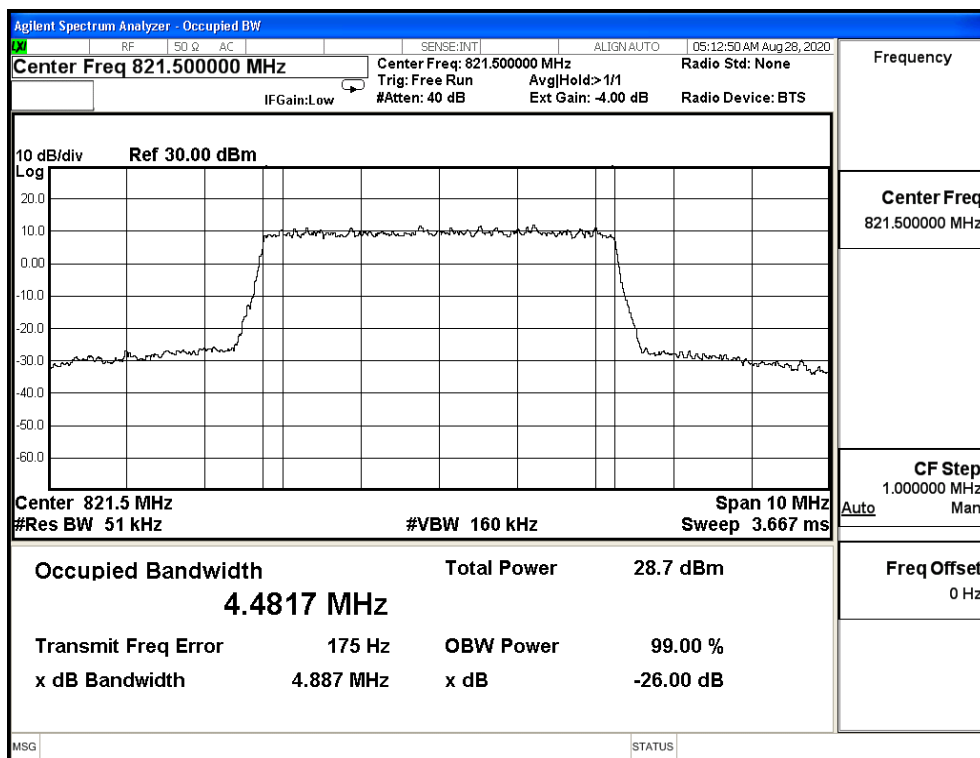
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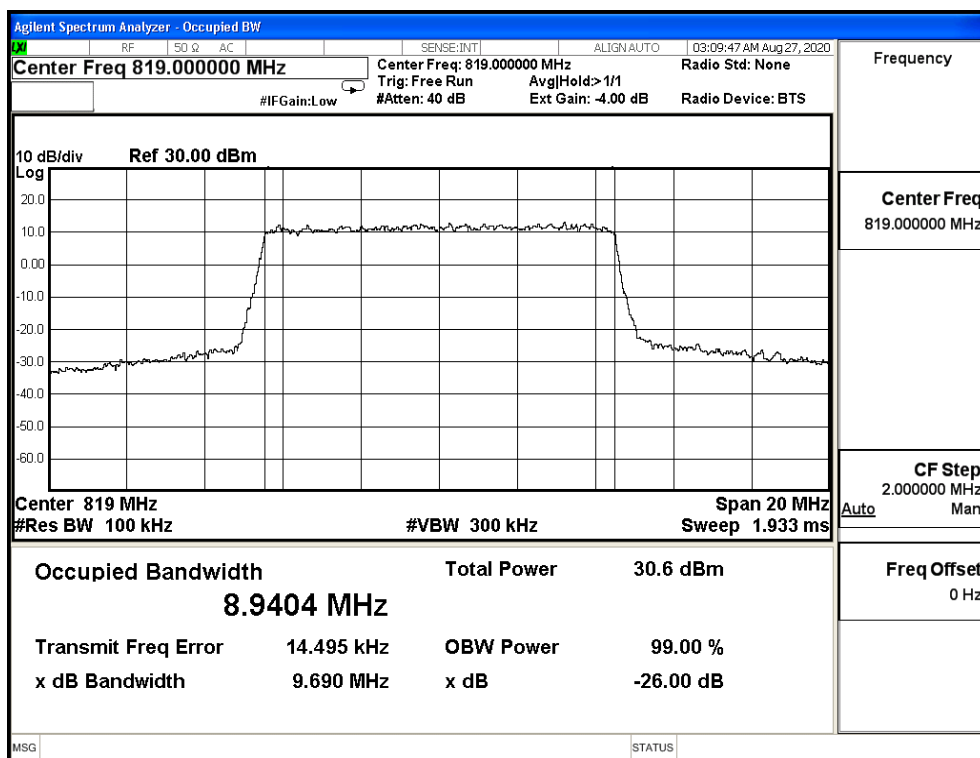
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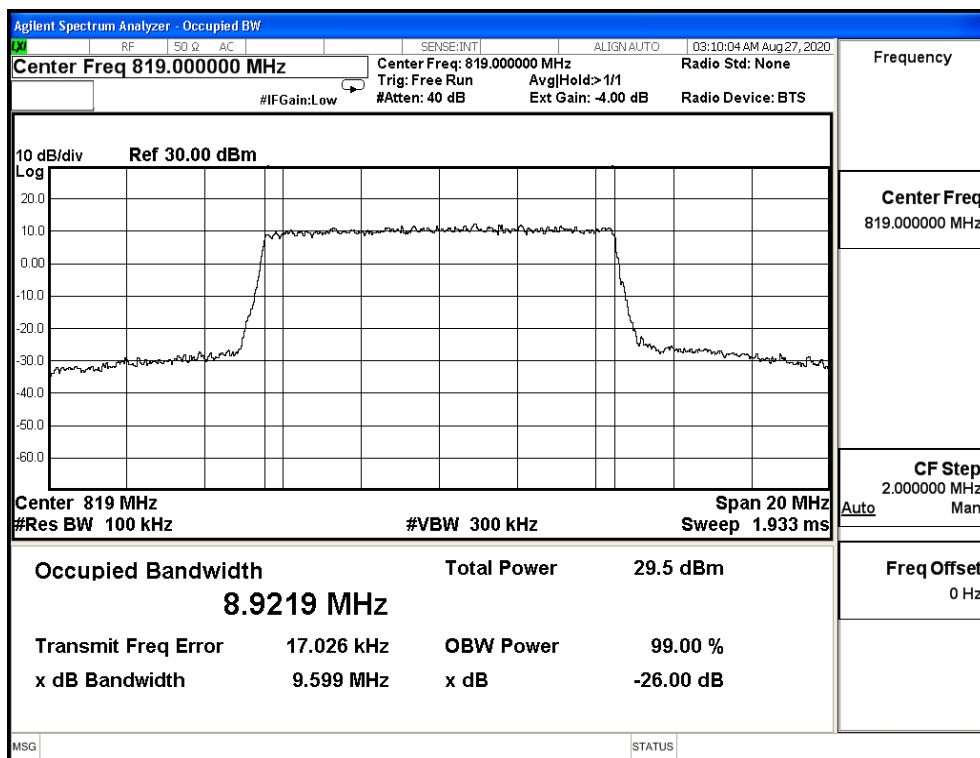
64QAM_CH26765_5M



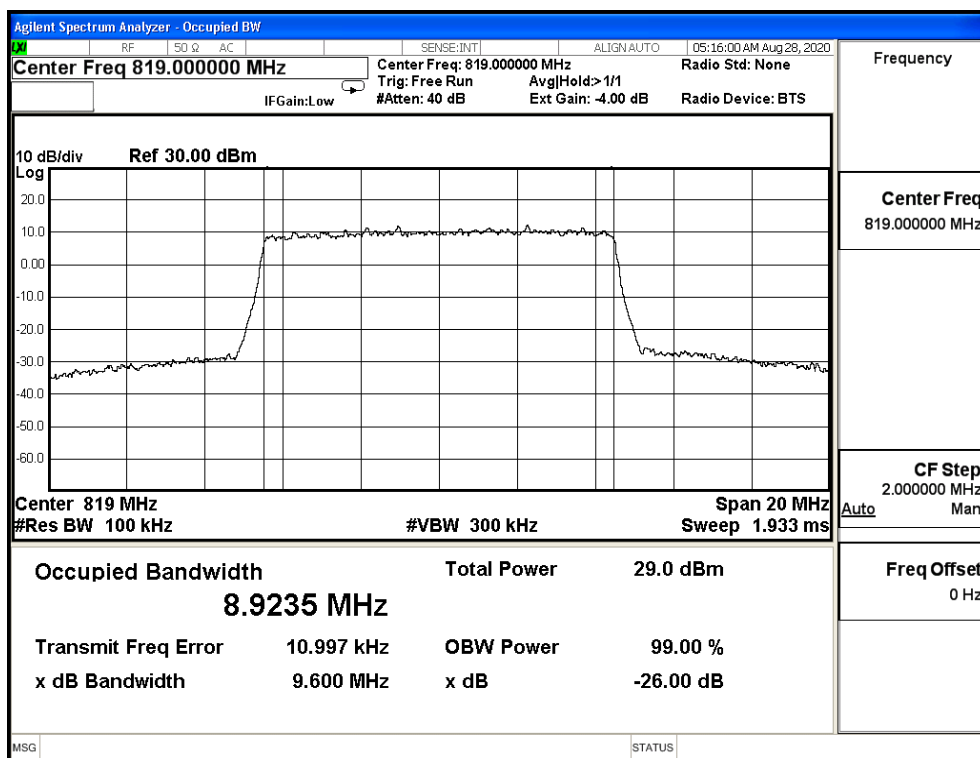
CH26740_QPSK_10M



CH26740_16QAM_10M



CH26740_64QAM_10M

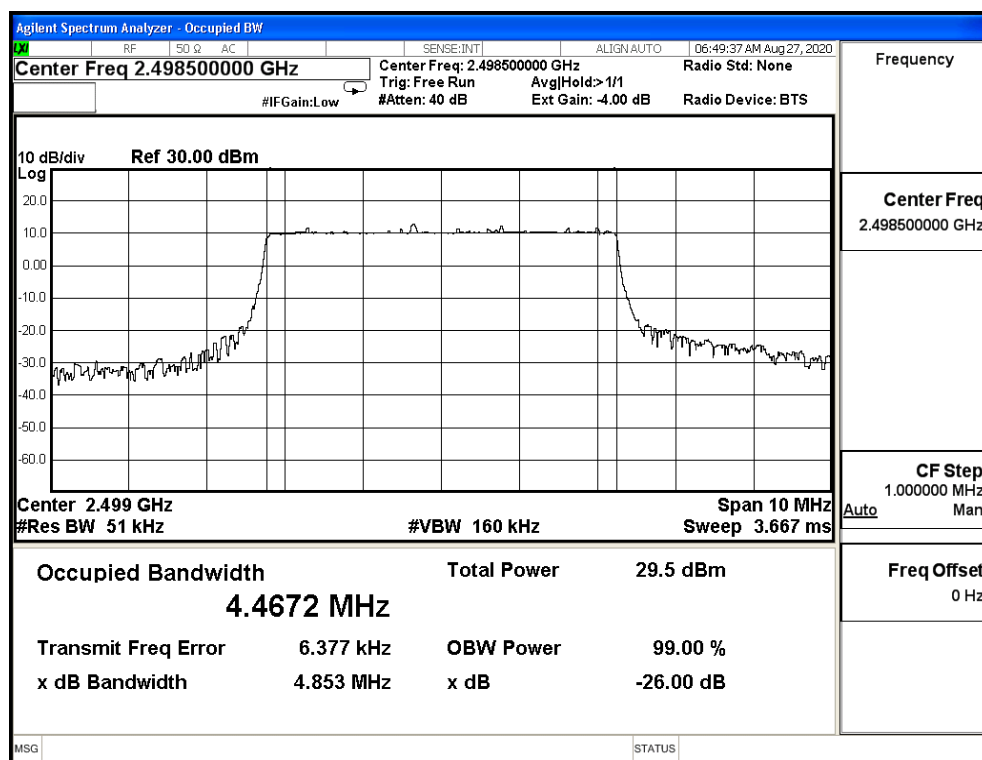


Product	Module		
Test Item	Occupied Bandwidth		
Test Mode	Mode 9: LTE Band 41 (FCC)		
Date of Test	2020/09/02	Test Site	SR12-H
Temperature(°C)	24	Humidity (%RH)	60

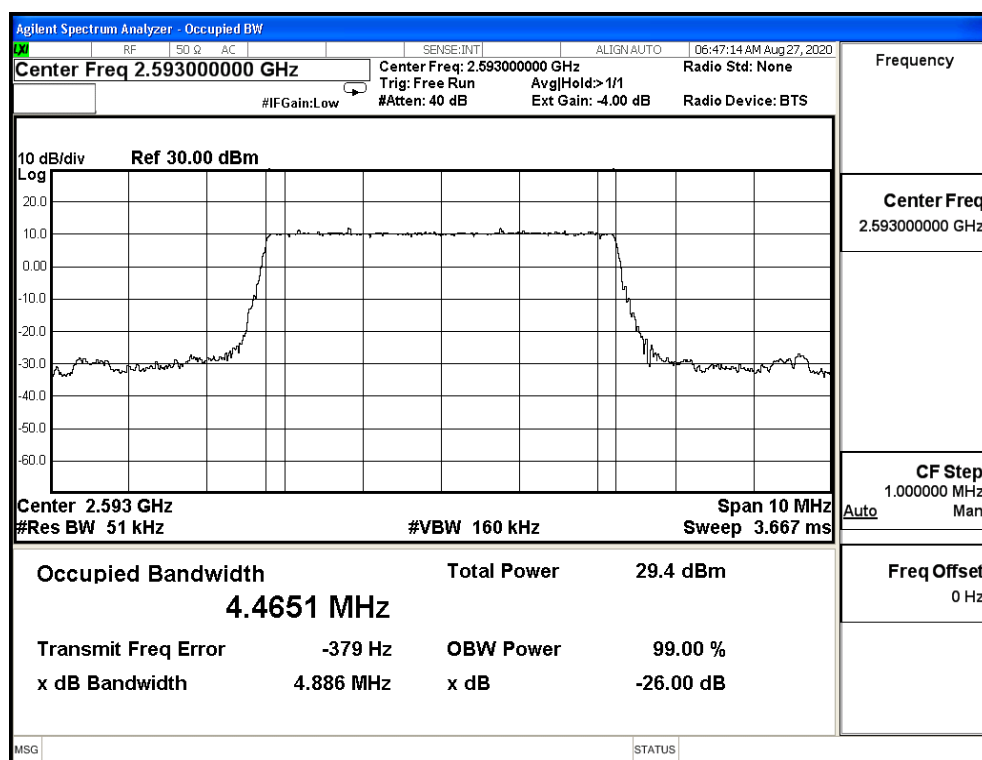
Bandwidth (MHz)	Modulation	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
			26dB BW	99% BW	
5M	QPSK	2498.5	4.853	4.467	N/A
		2593.0	4.886	4.465	N/A
		2687.5	4.801	4.483	N/A
	16-QAM	2498.5	4.903	4.473	N/A
		2593.0	4.871	4.463	N/A
		2687.5	4.873	4.461	N/A
	64-QAM	2498.5	4.845	4.484	N/A
		2593.0	4.831	4.484	N/A
		2687.5	4.859	4.483	N/A
10M	QPSK	2501.0	9.506	8.946	N/A
		2593.0	9.698	8.956	N/A
		2685.0	9.720	8.936	N/A
	16-QAM	2501.0	9.613	8.930	N/A
		2593.0	9.557	8.950	N/A
		2685.0	9.515	8.932	N/A
	64-QAM	2501.0	9.683	8.934	N/A
		2593.0	9.668	8.937	N/A
		2685.0	9.670	8.939	N/A
15M	QPSK	2503.5	14.470	13.397	N/A
		2593.0	14.430	13.414	N/A
		2682.5	14.350	13.407	N/A
	16-QAM	2503.5	14.460	13.403	N/A
		2593.0	14.460	13.419	N/A
		2682.5	14.350	13.395	N/A
	64-QAM	2503.5	14.450	13.398	N/A
		2593.0	14.510	13.399	N/A
		2682.5	14.440	13.386	N/A

Bandwidth (MHz)	Modulation	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
			26dB BW	99% BW	
20M	QPSK	2506.0	19.150	17.843	N/A
		2593.0	19.040	17.845	N/A
		2680.0	18.870	17.863	N/A
	16-QAM	2506.0	19.000	17.811	N/A
		2593.0	19.040	17.871	N/A
		2680.0	18.960	17.806	N/A
	64-QAM	2506.0	19.250	17.853	N/A
		2593.0	19.210	17.853	N/A
		2680.0	19.080	17.816	N/A

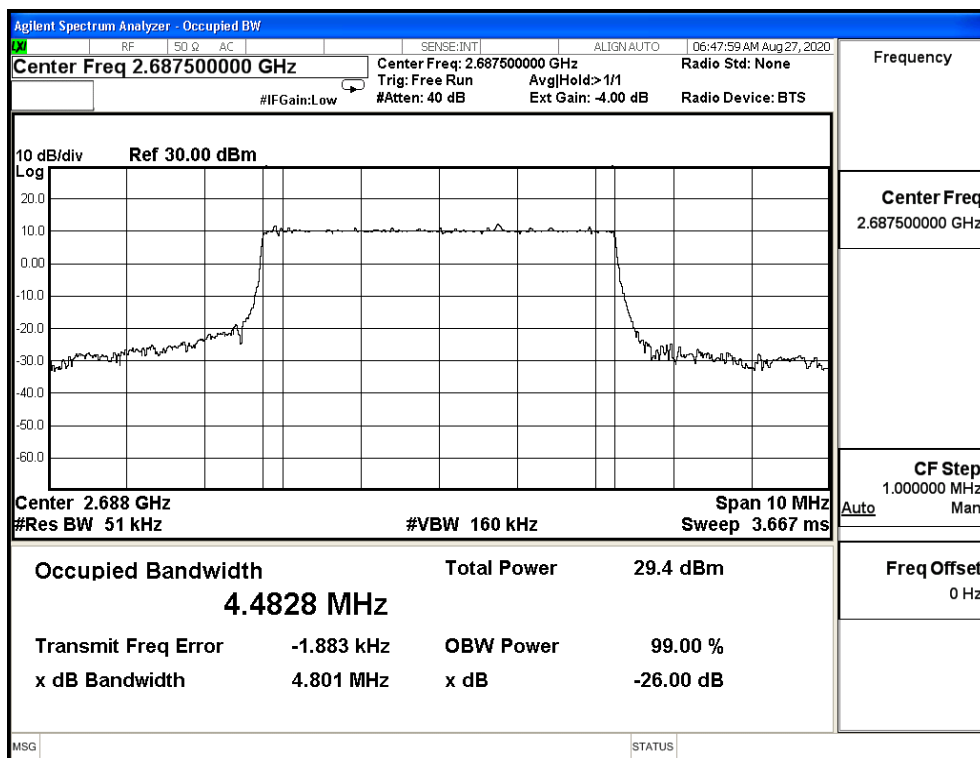
QPSK CH39675 5M



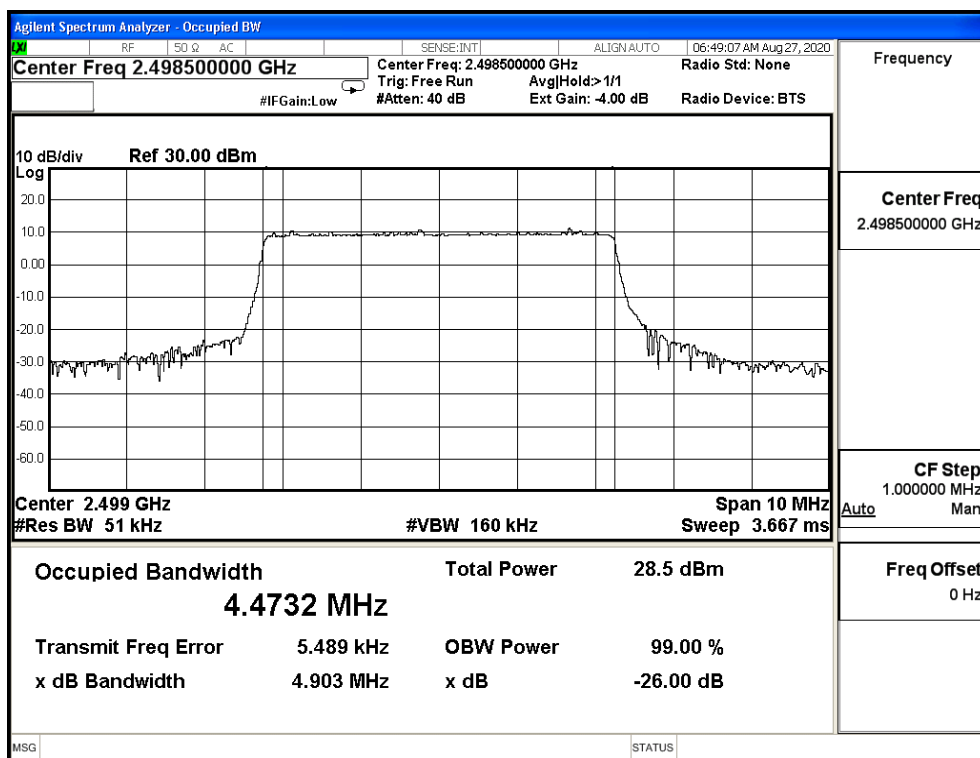
QPSK CH40620 5M



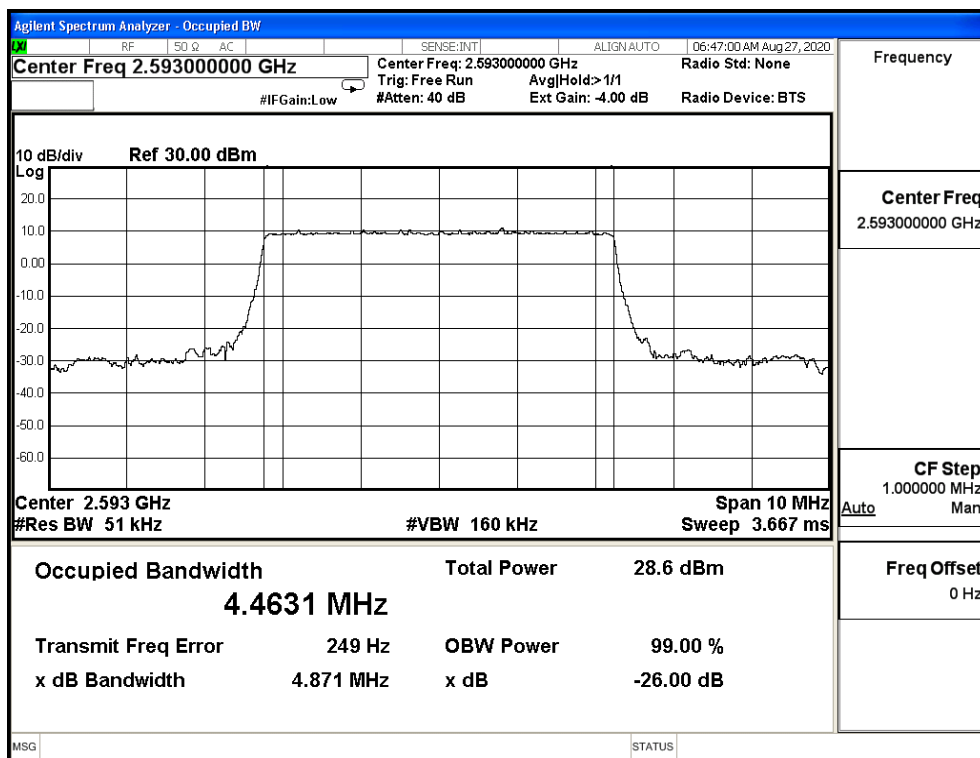
QPSK_CH41565_5M



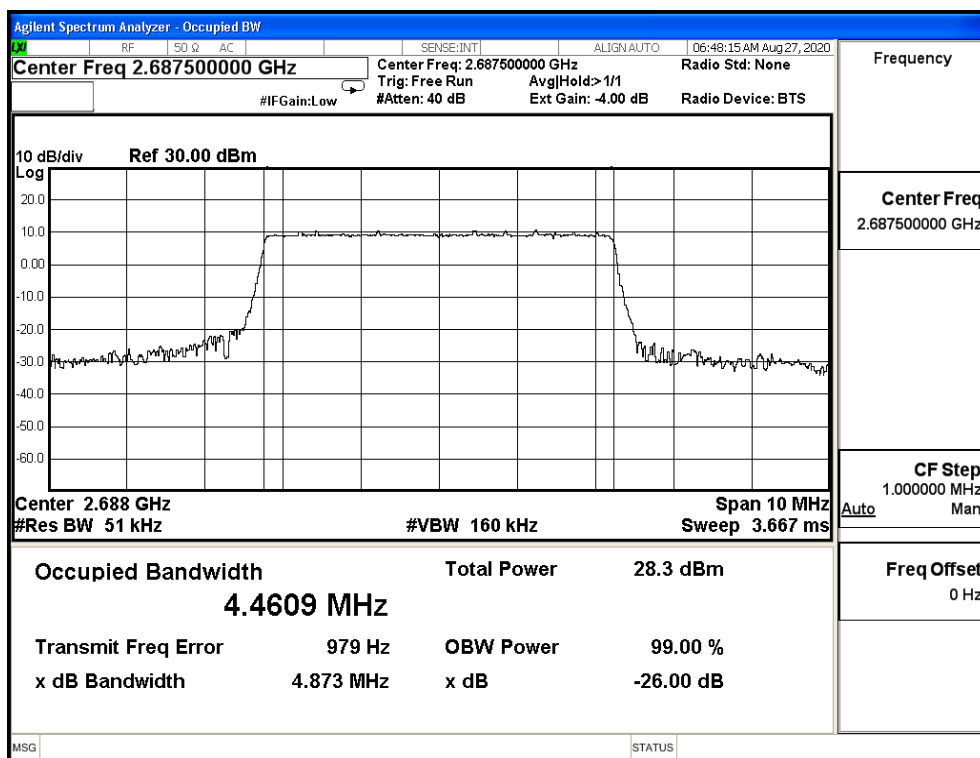
16QAM_CH39675_5M



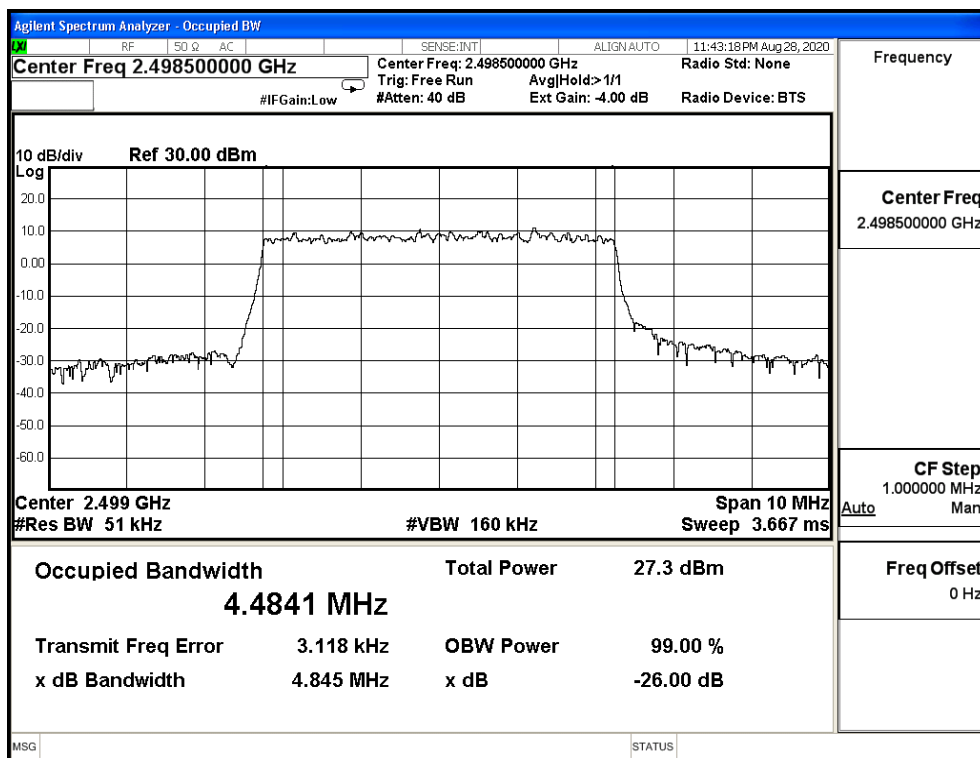
16QAM_CH40620_5M



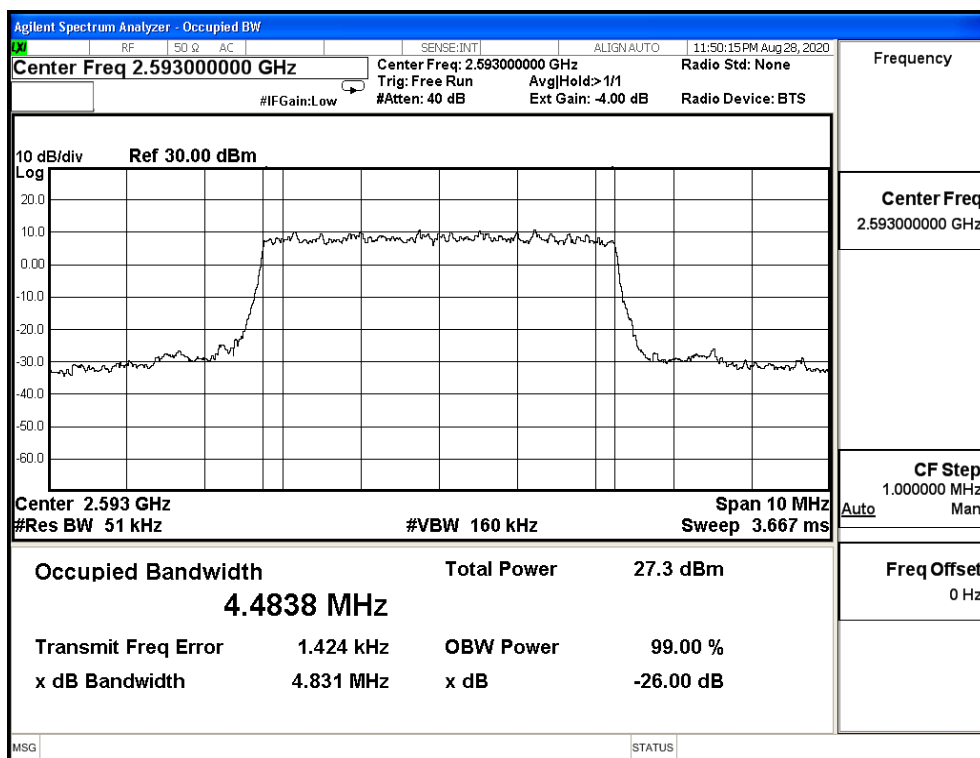
16QAM_CH41565_5M



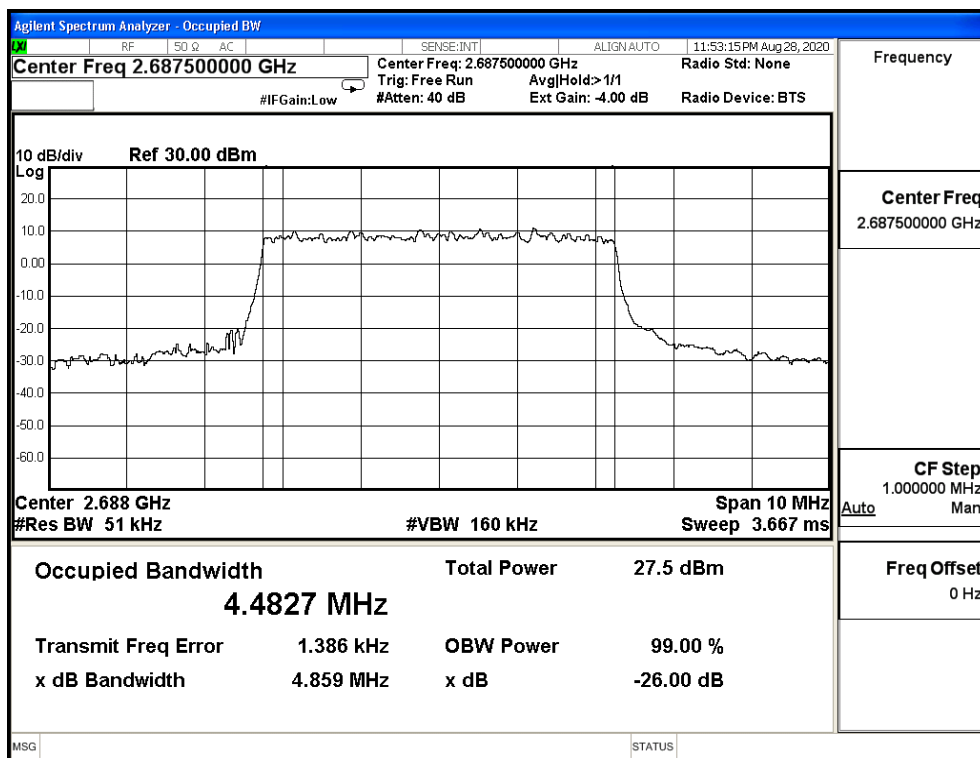
64QAM_CH39675_5M



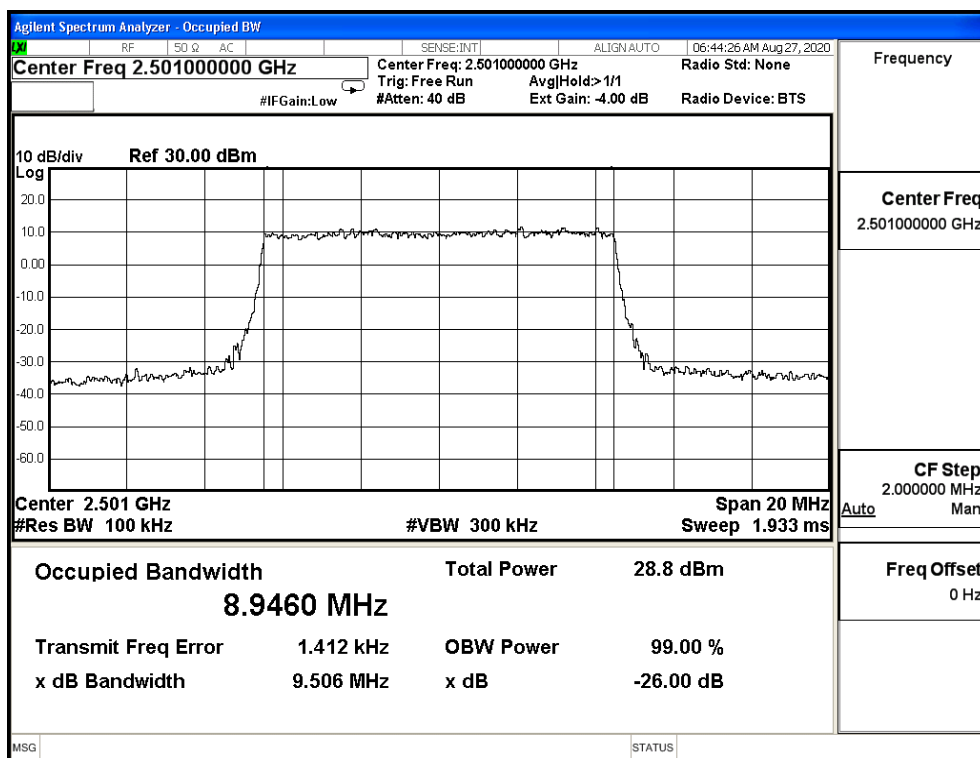
64QAM_CH40620_5M



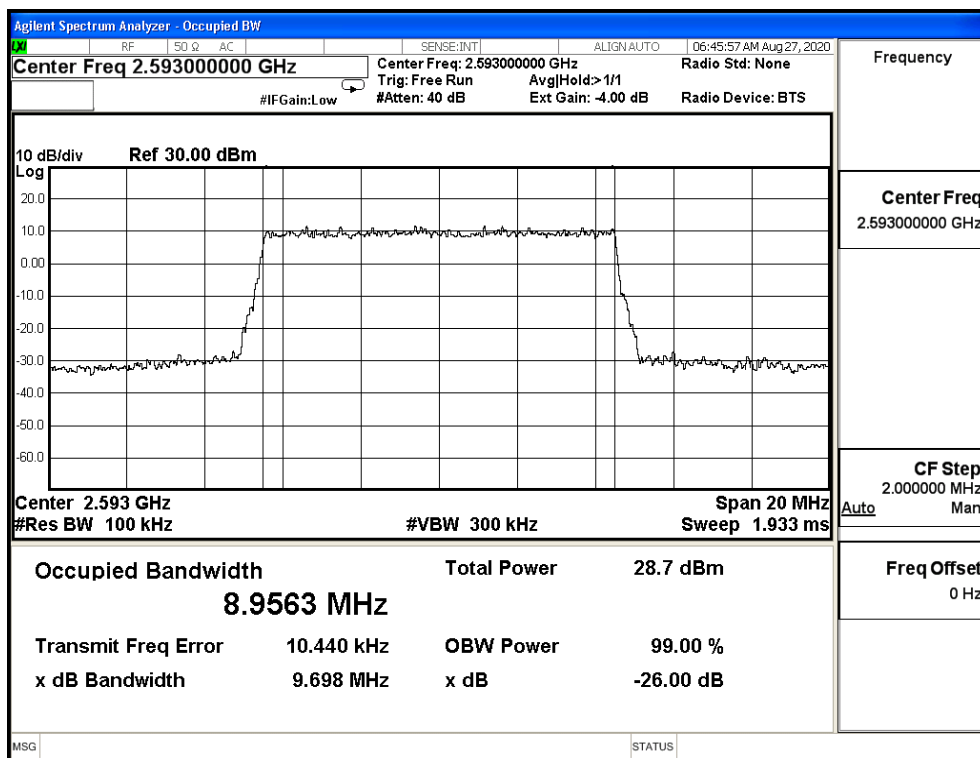
64QAM_CH41565_5M



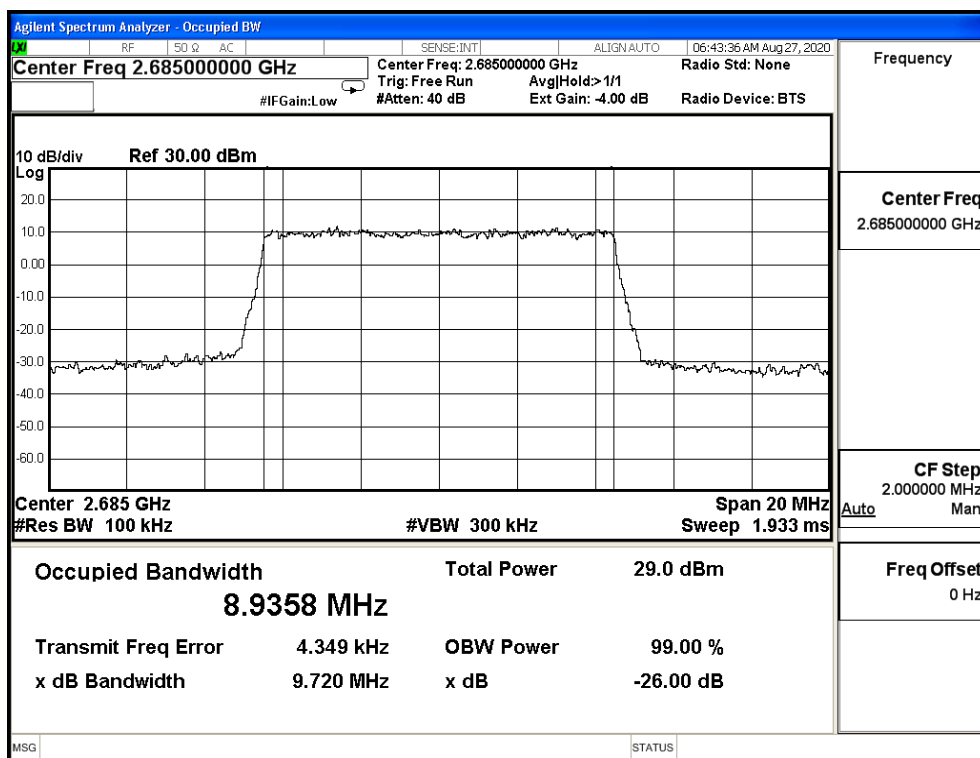
QPSK_CH39700_10M



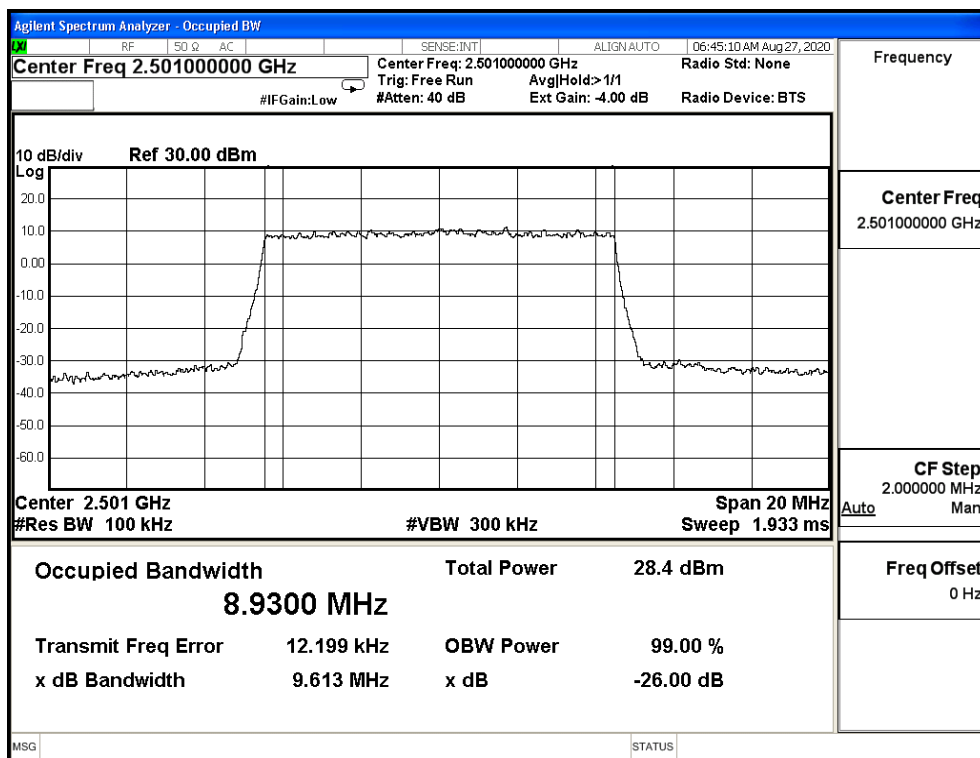
QPSK_CH40620_10M



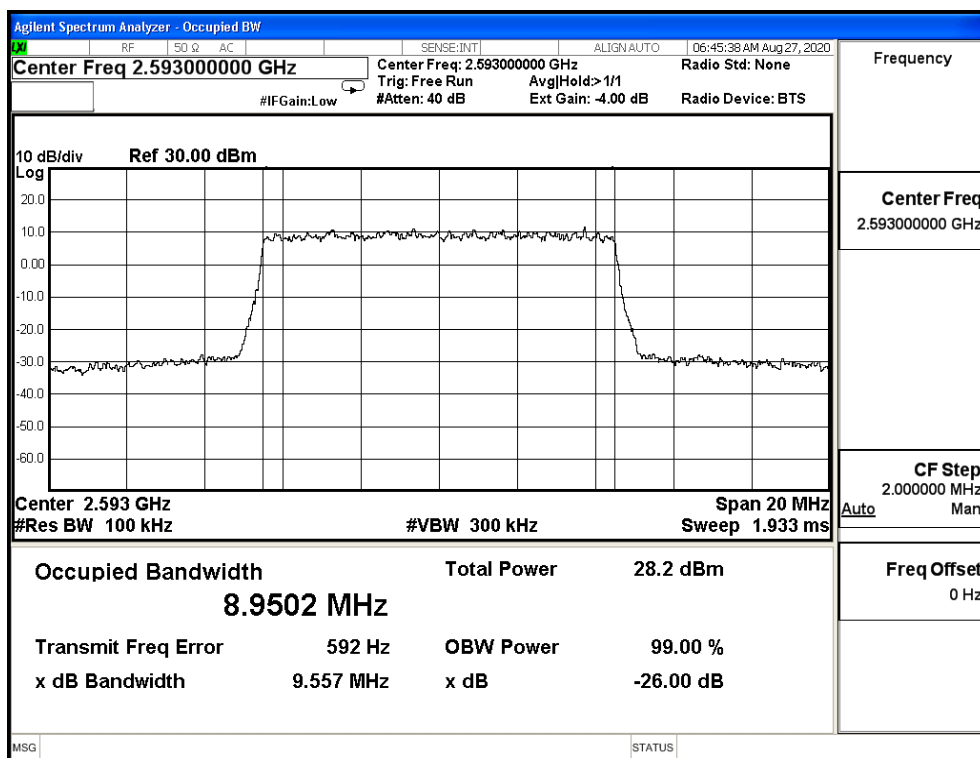
QPSK_CH41540_10M



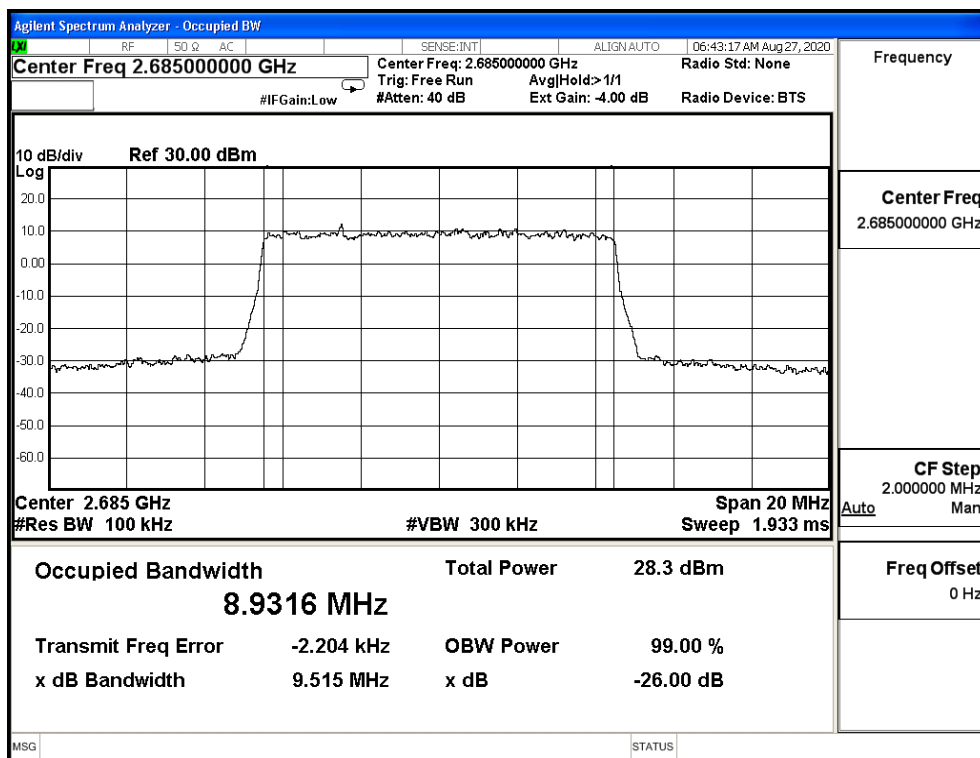
16QAM_CH39700_10M



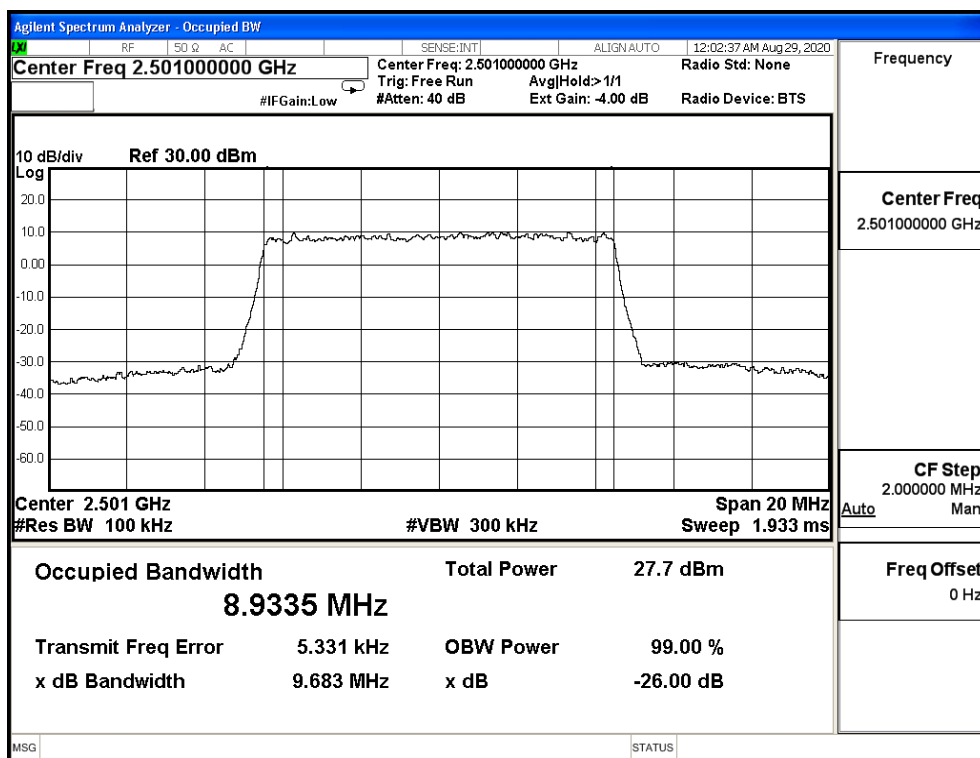
16QAM_CH40620_10M



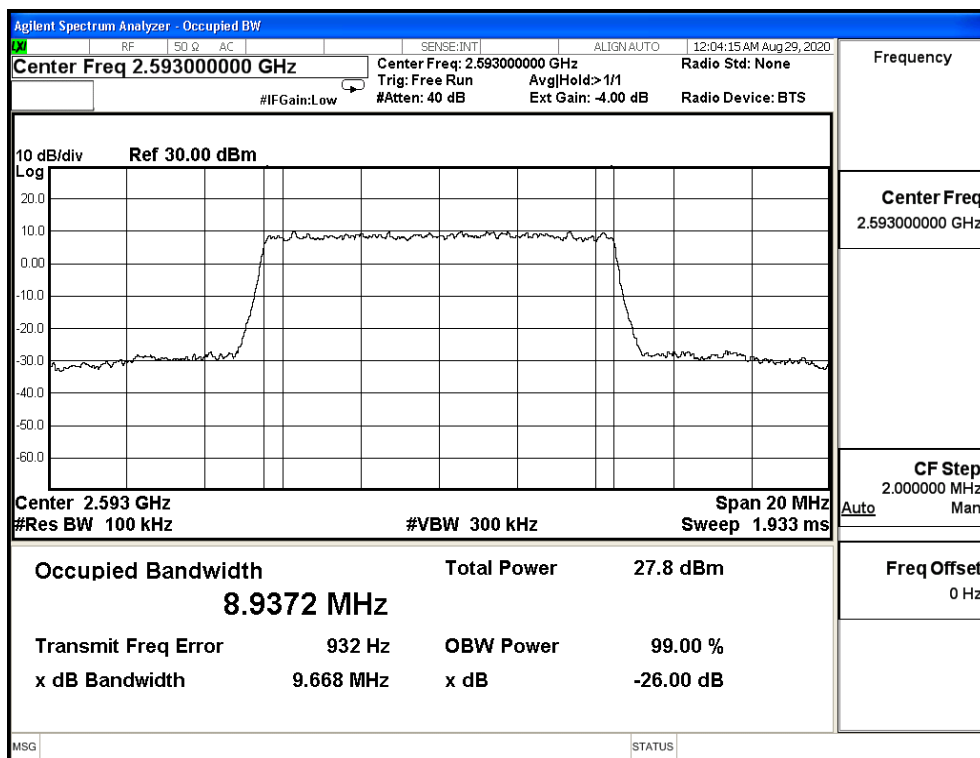
16QAM_CH41540_10M



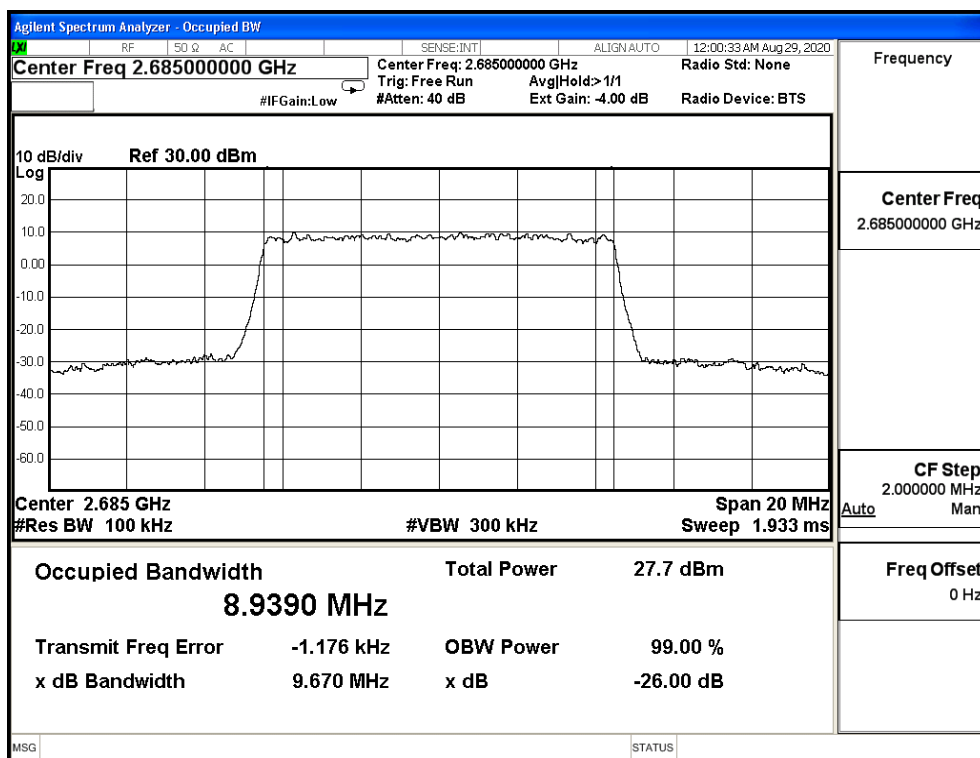
64QAM_CH39700_10M



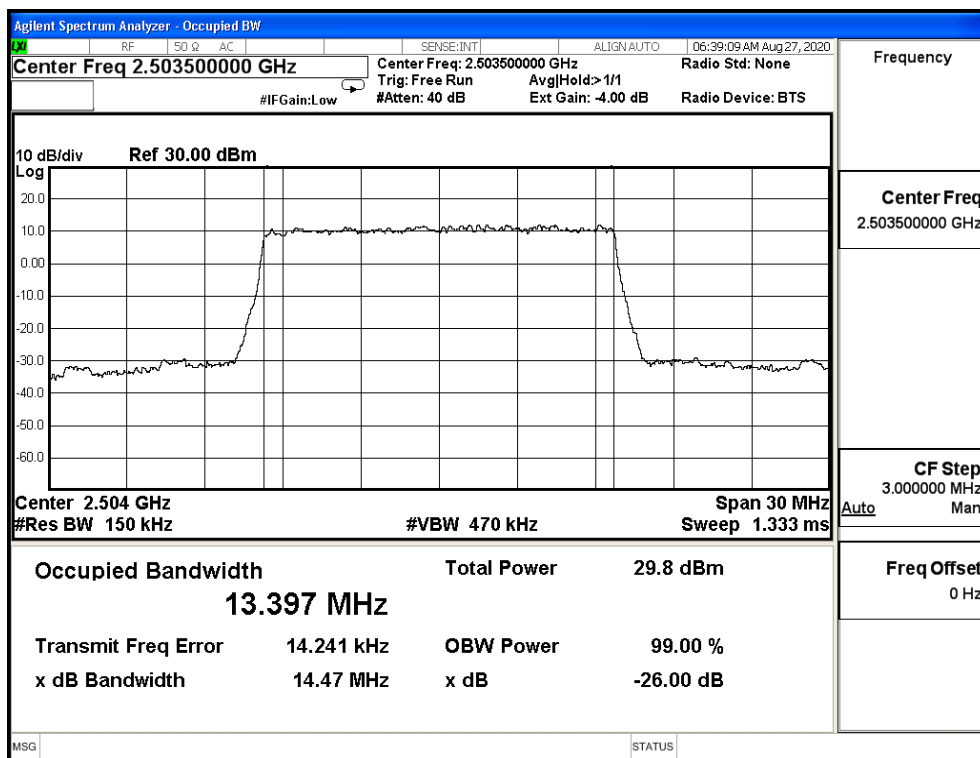
64QAM_CH40620_10M



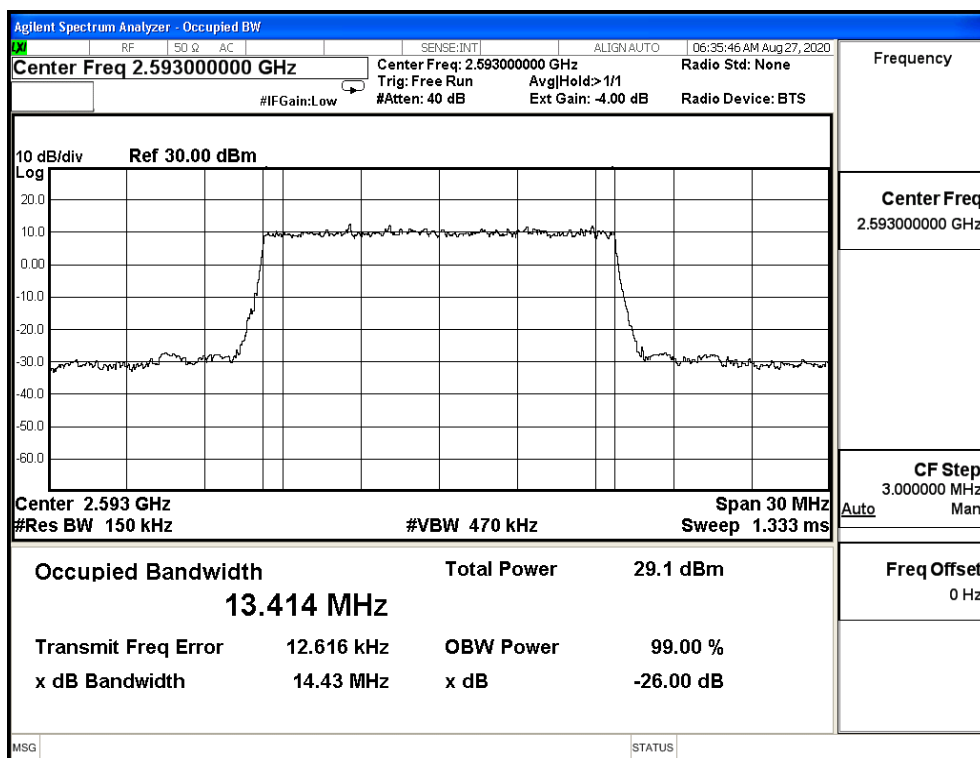
64QAM_CH41540_10M



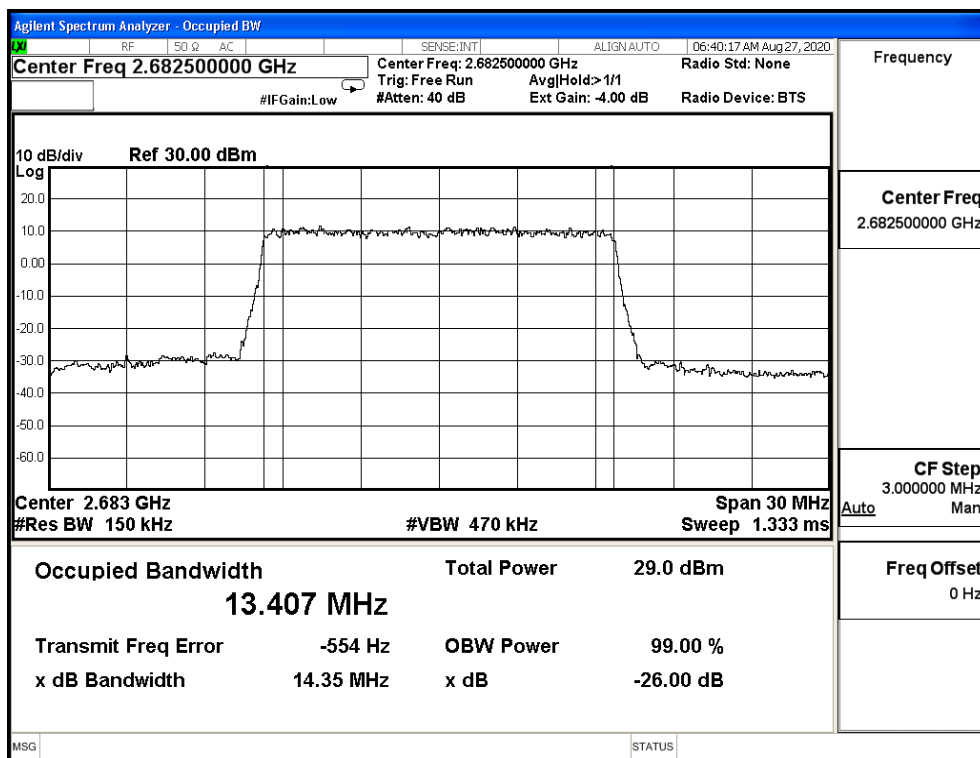
QPSK_CH39725_15M



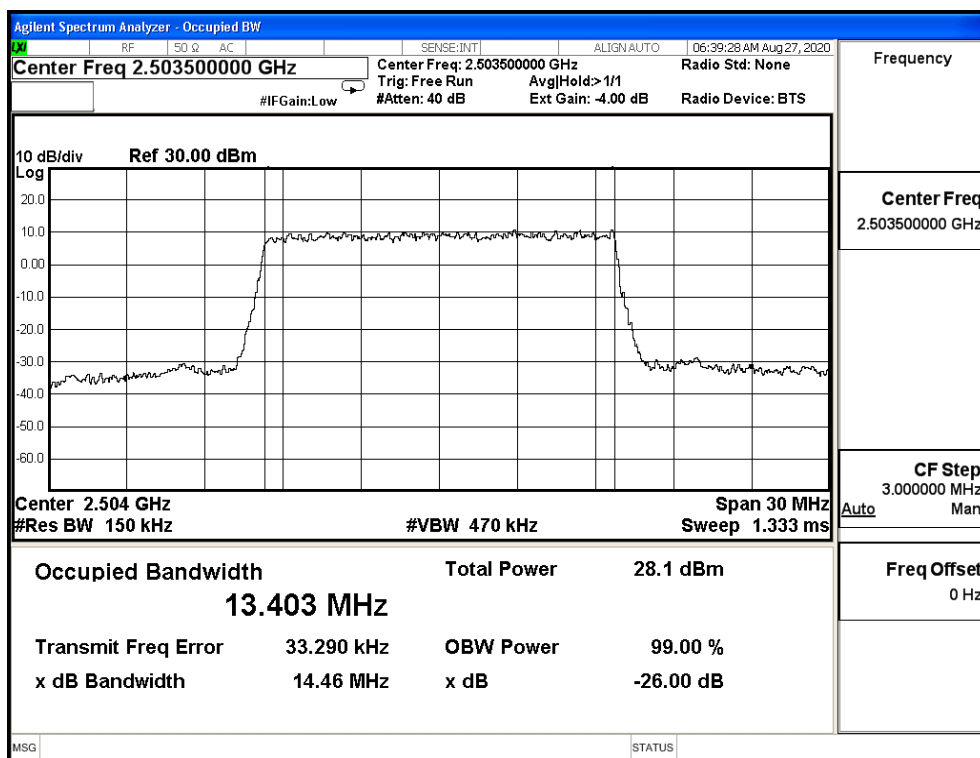
QPSK_CH40620_15M



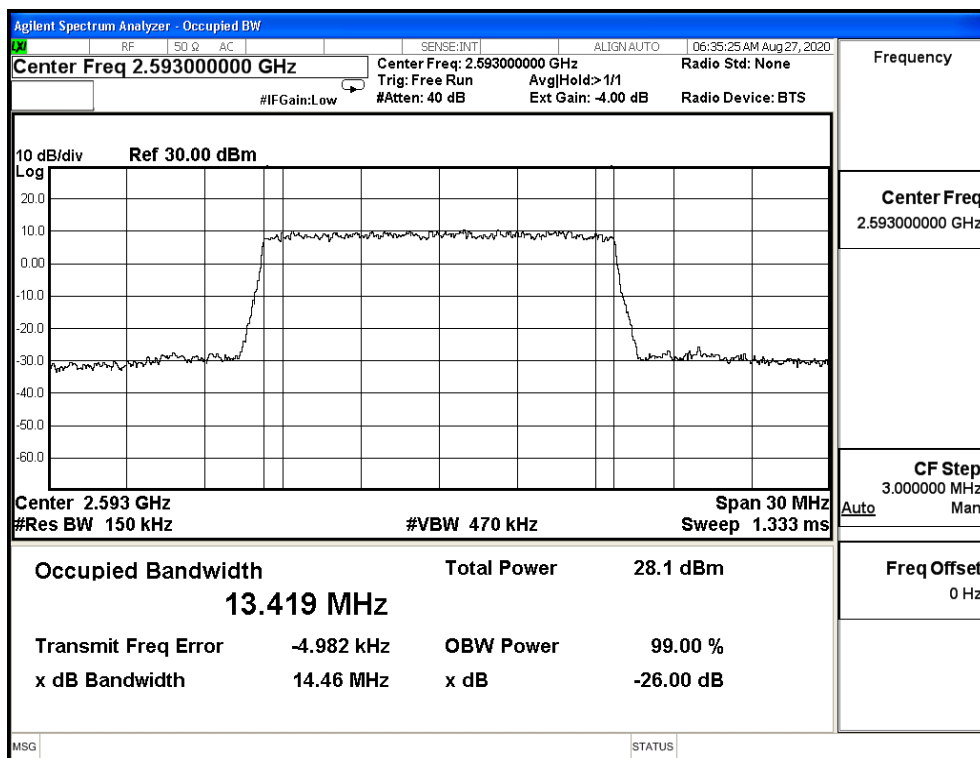
QPSK_CH41515_15M



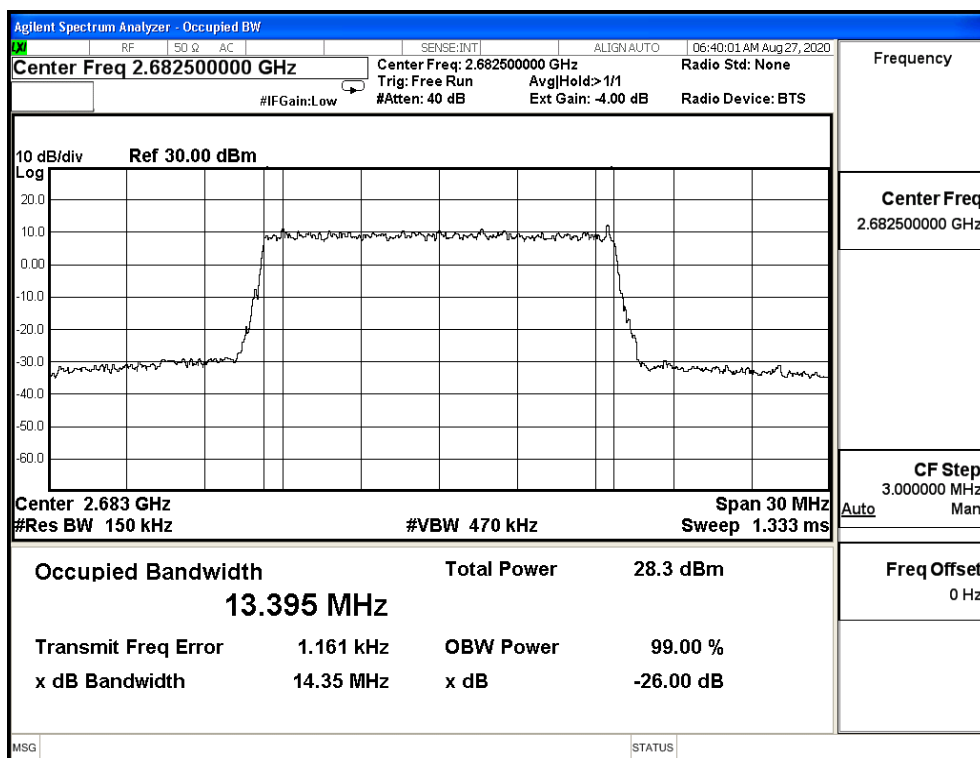
16QAM_CH39725_15M



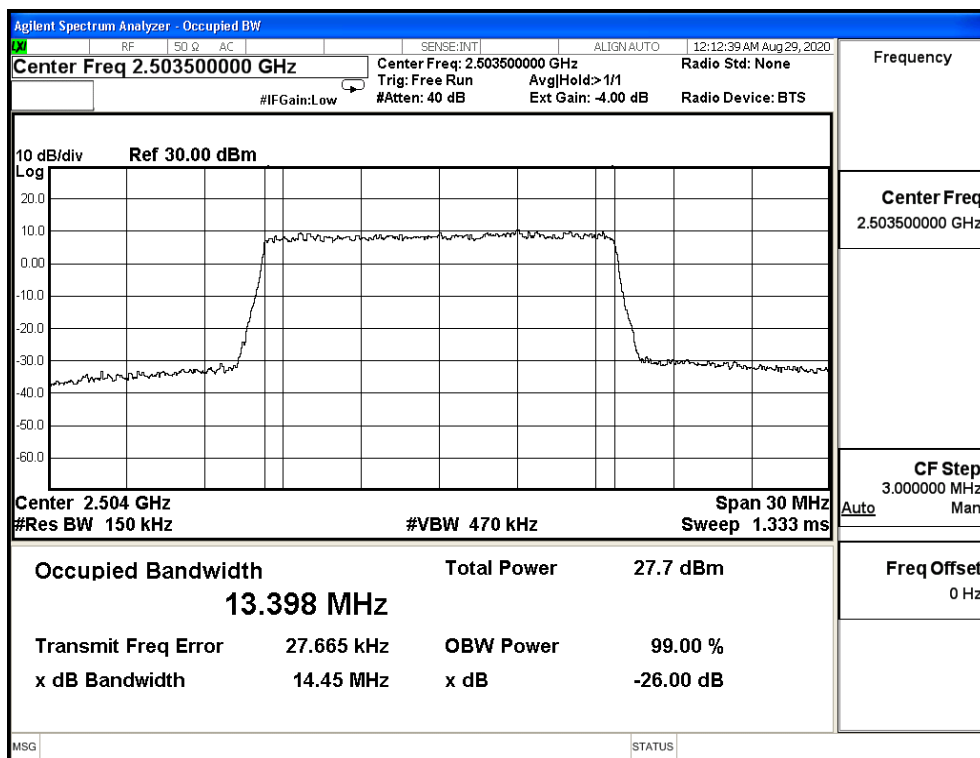
16QAM_CH40620_15M



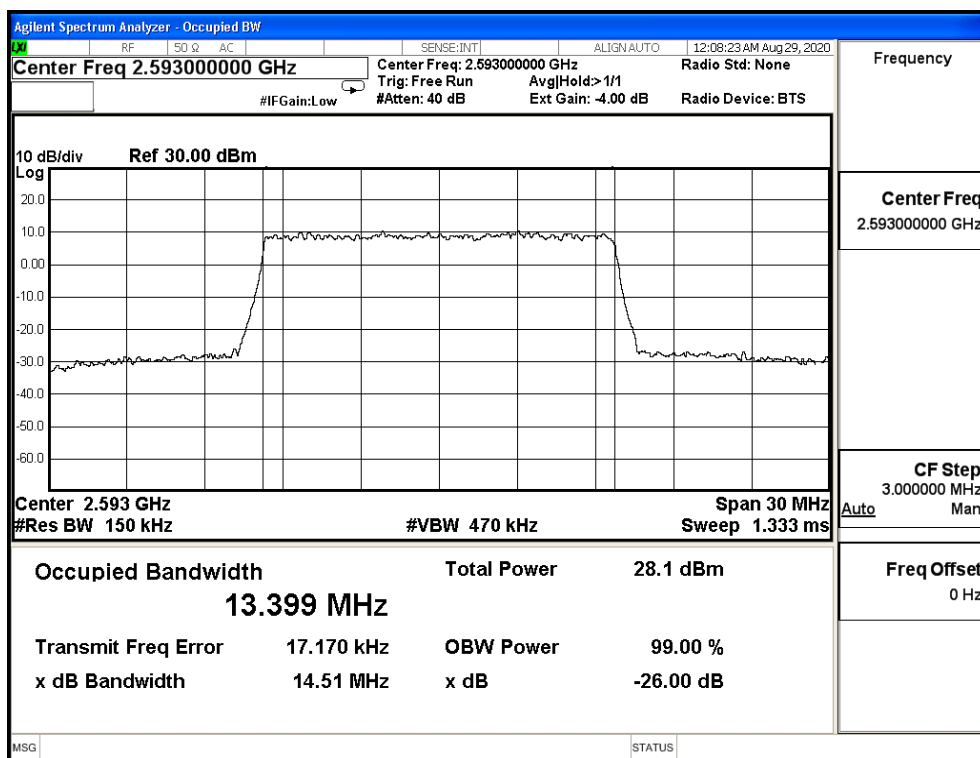
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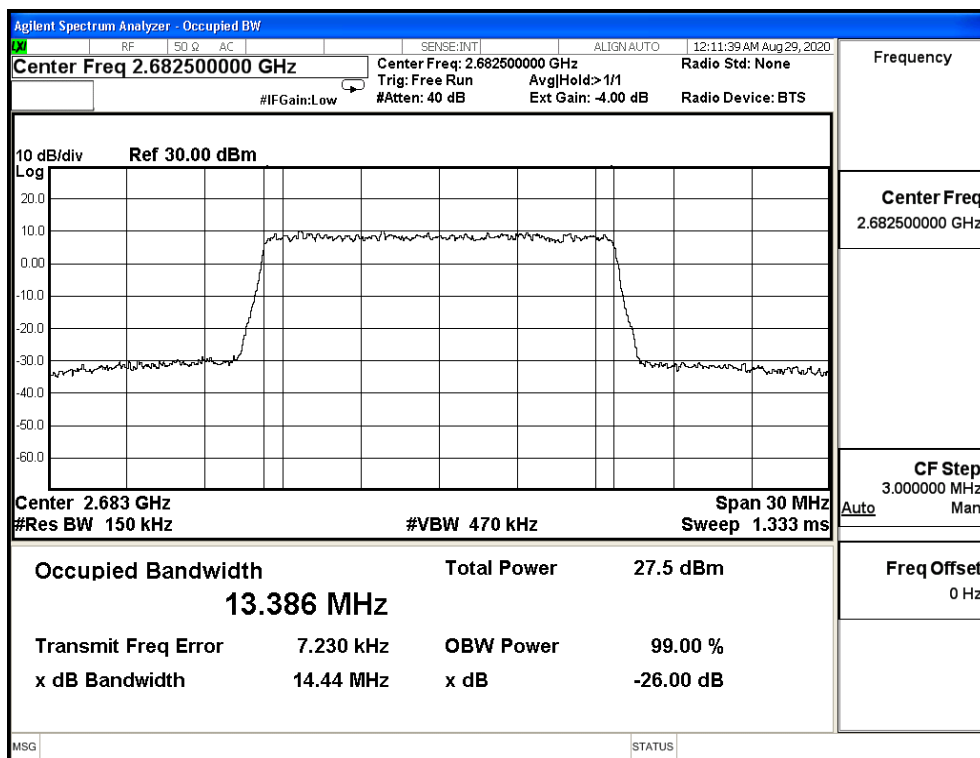
64QAM_CH39725_15M



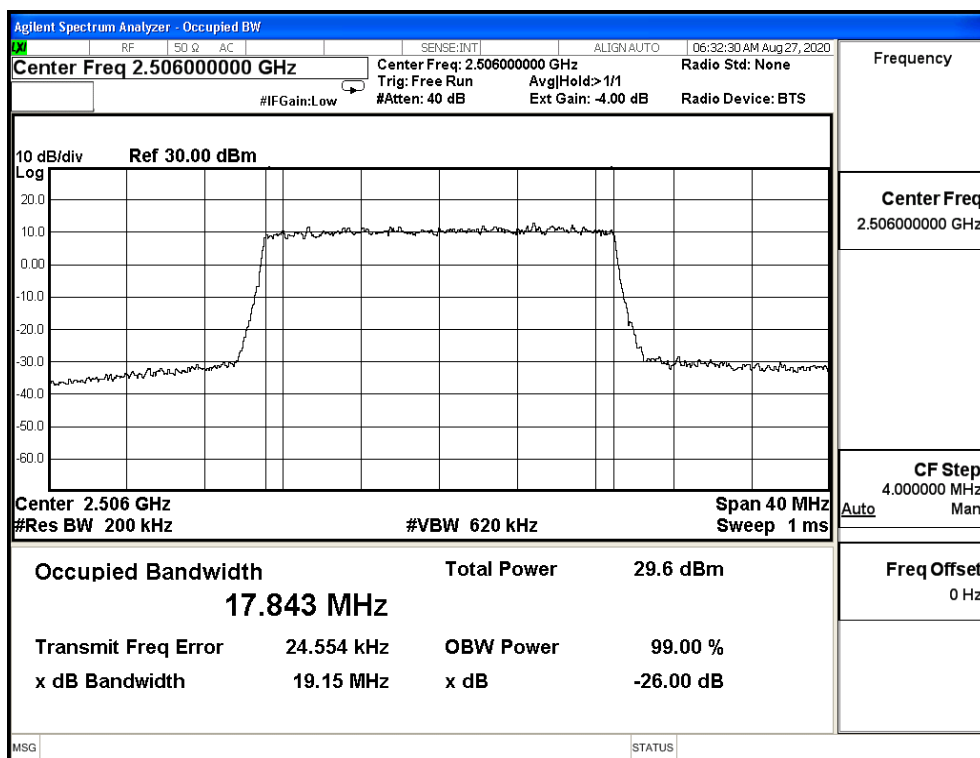
64QAM_CH40620_15M



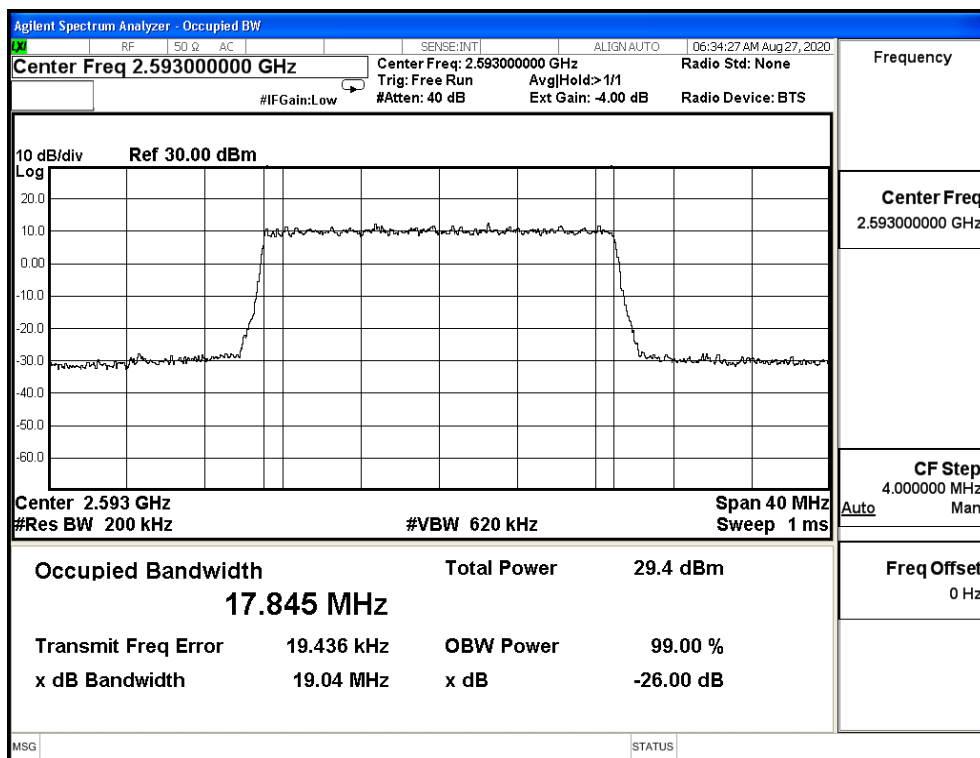
64QAM_CH41515_15M



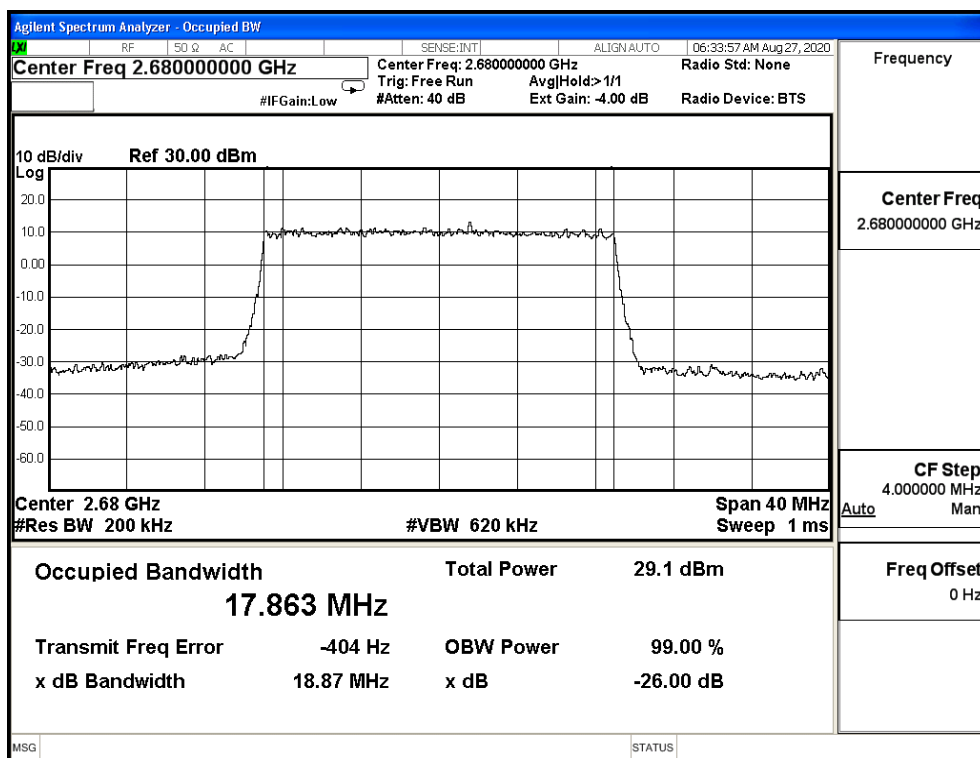
QPSK_CH39750_20M



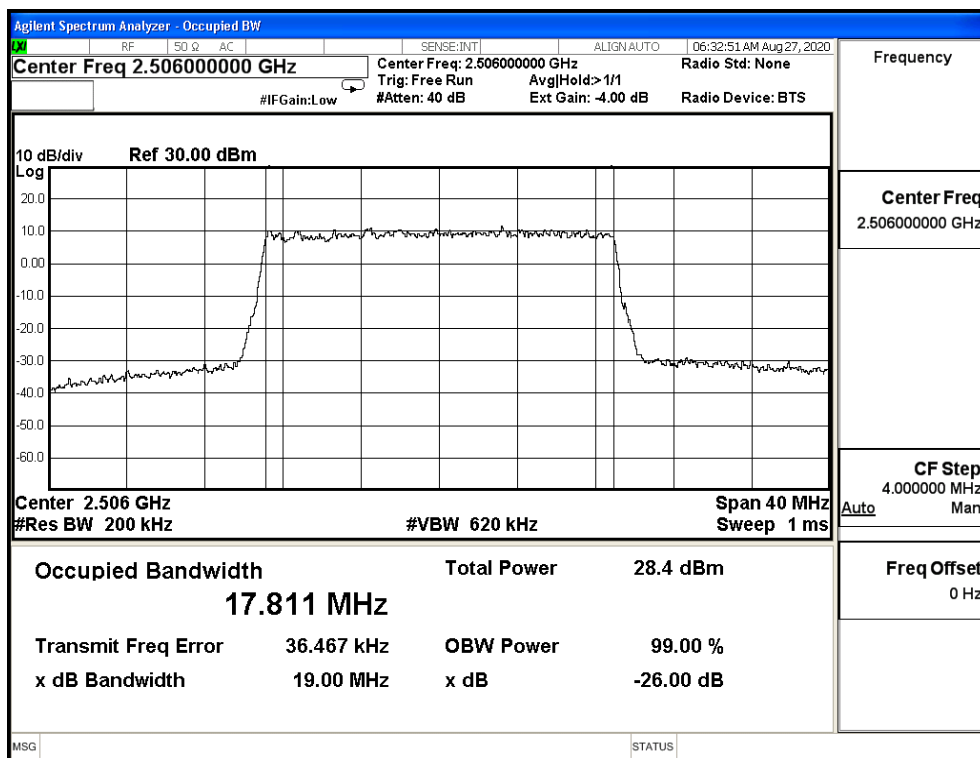
QPSK_CH40620_20M



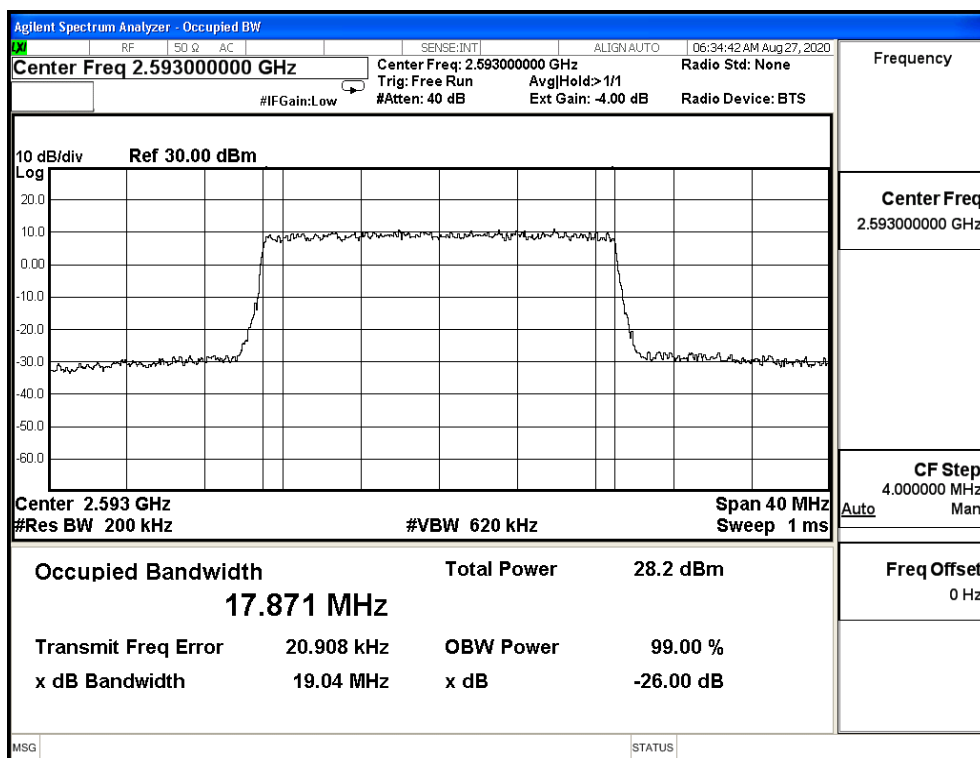
QPSK_CH41490_20M



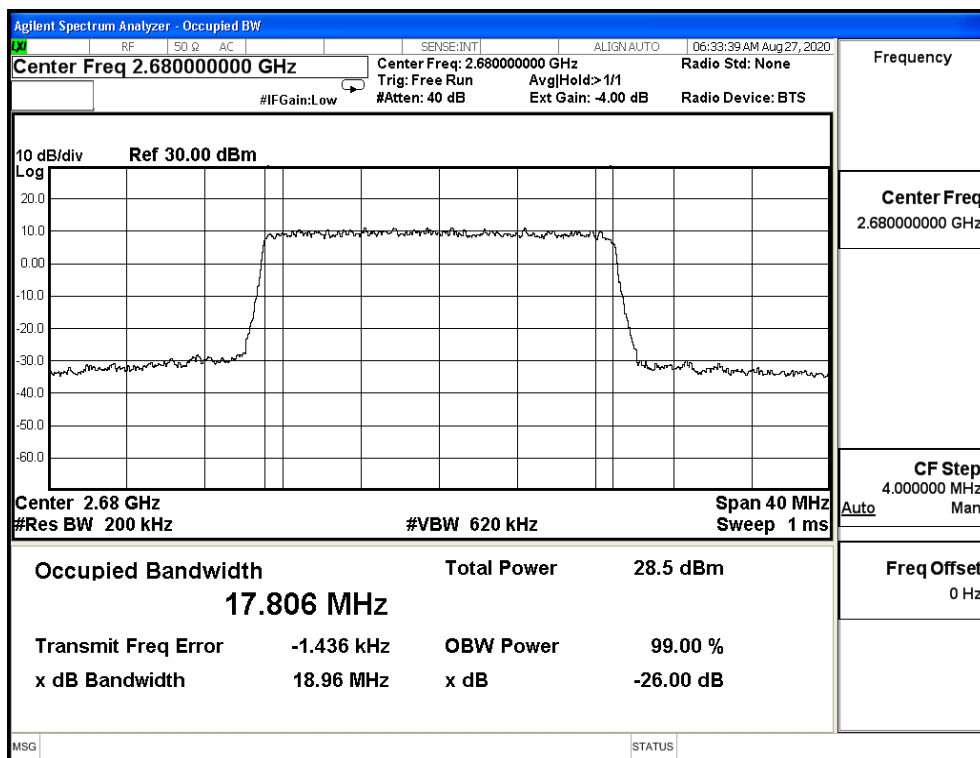
16QAM_CH39750_20M



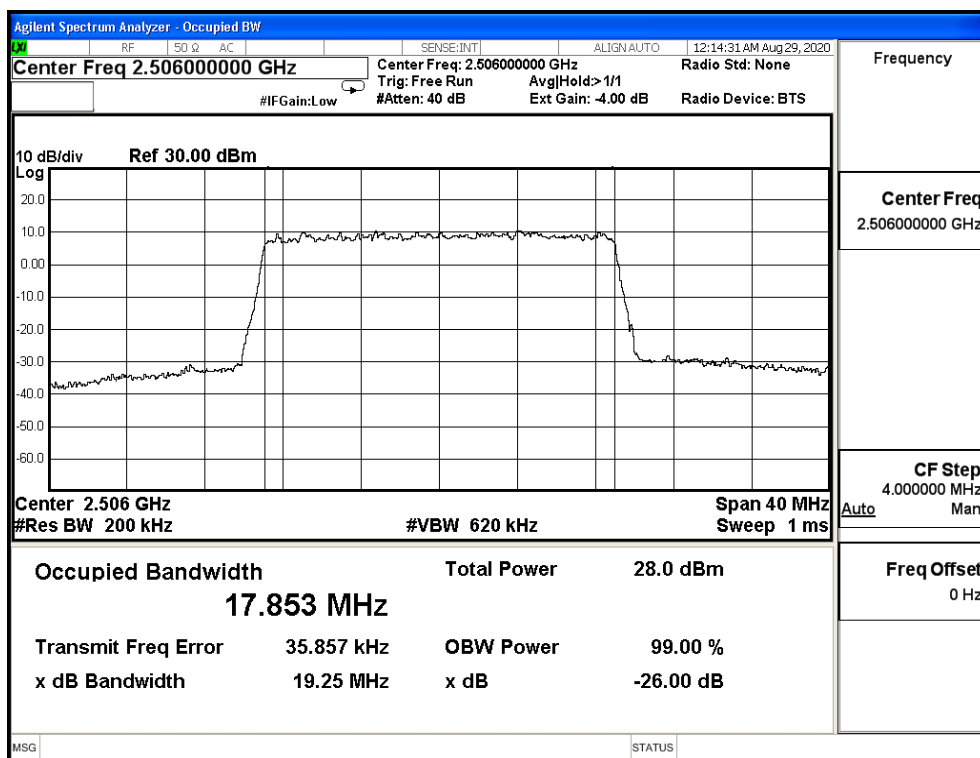
16QAM_CH40620_20M



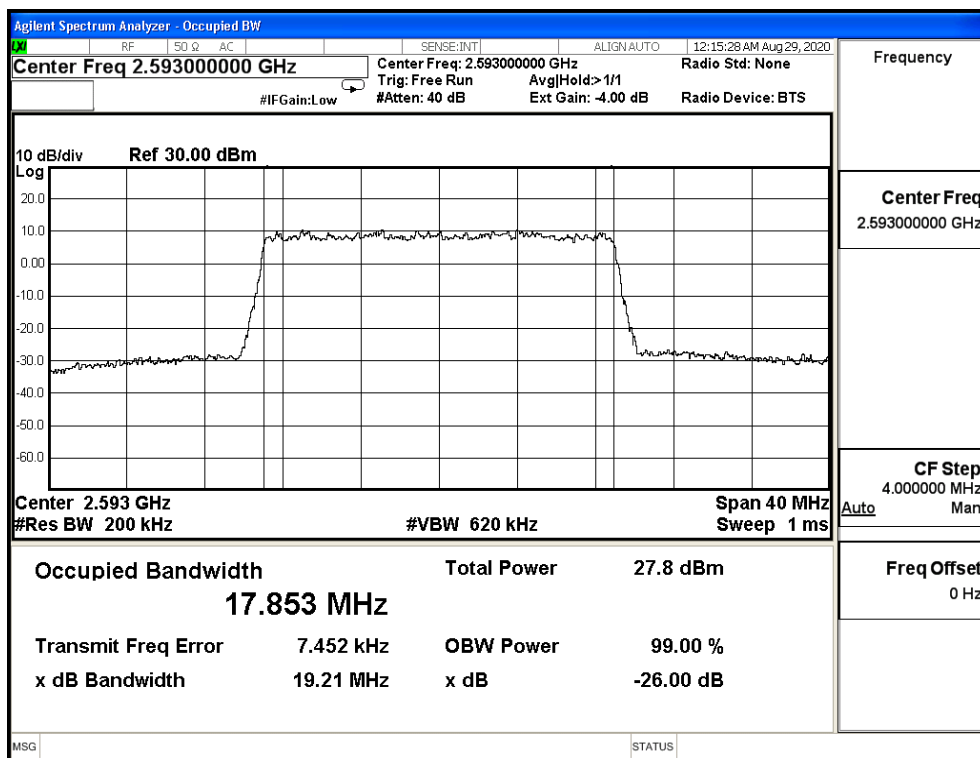
16QAM_CH41490_20M



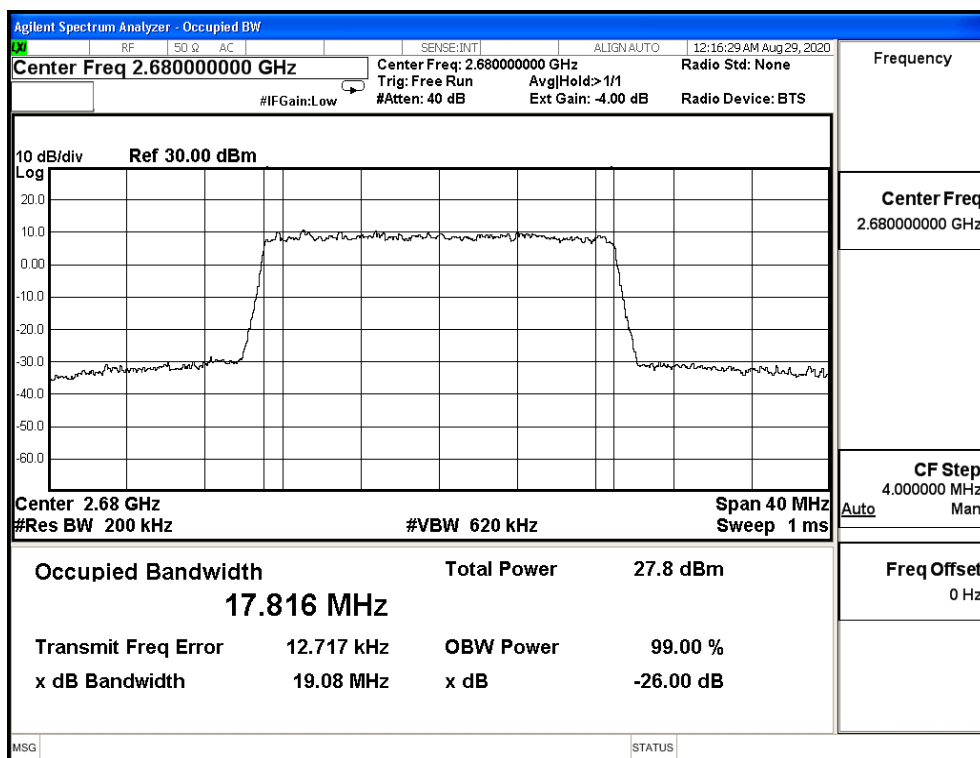
64QAM_CH39750_20M



64QAM_CH40620_20M



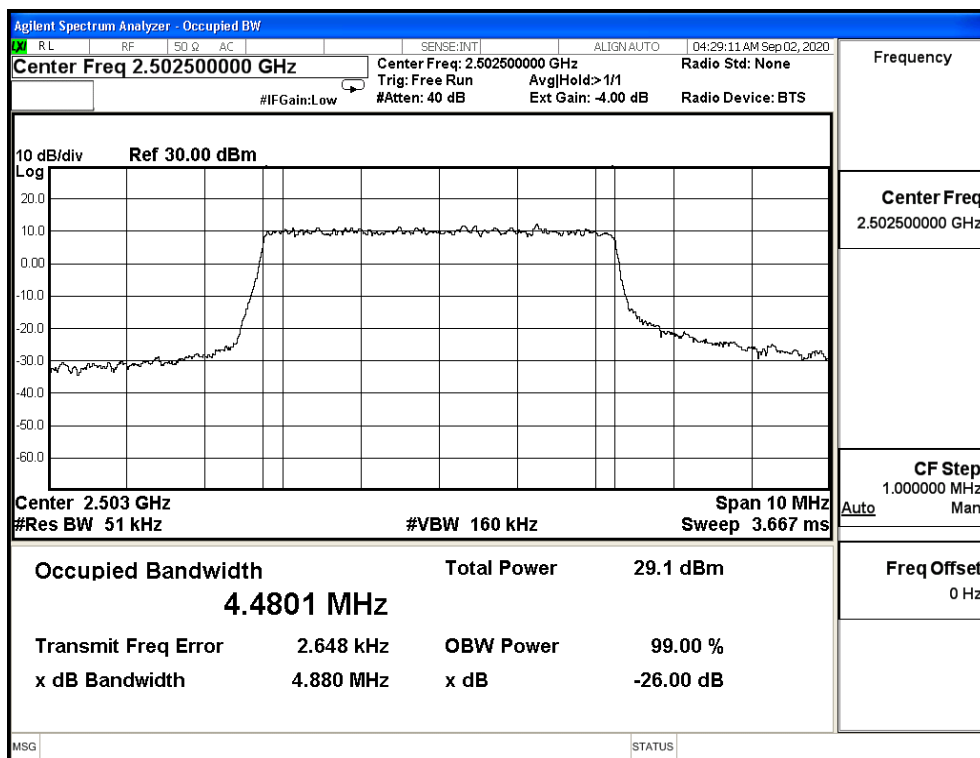
64QAM_CH41490_20M



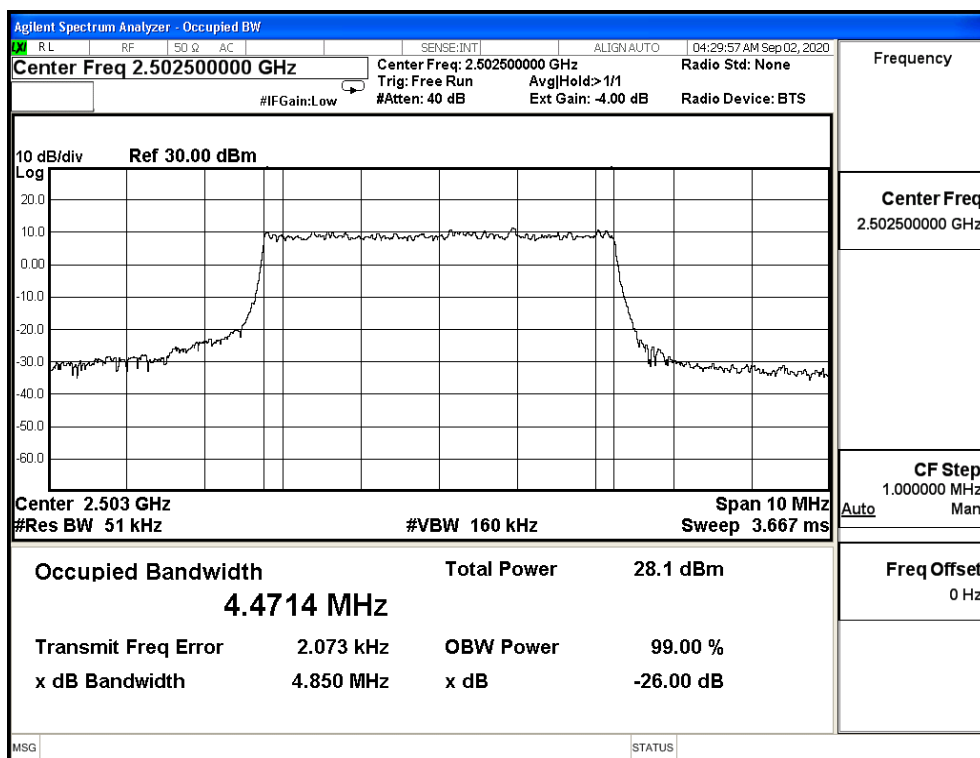
Product	Module		
Test Item	Occupied Bandwidth		
Test Mode	Mode 9: LTE Band 41 (ISED)		
Date of Test	2020/09/02	Test Site	SR12-H
Temperature(°C)	24	Humidity (%RH)	60

Bandwidth (MHz)	Modulation	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
			26dB BW	99% BW	
5M	QPSK	2502.5	4.880	4.480	N/A
	16-QAM	2502.5	4.850	4.471	N/A
	64-QAM	2502.5	4.838	4.479	N/A
10M	QPSK	2505.0	9.568	8.934	N/A
	16-QAM	2505.0	9.568	8.924	N/A
	64-QAM	2505.0	9.689	8.933	N/A
15M	QPSK	2507.5	14.300	13.407	N/A
	16-QAM	2507.5	14.430	13.400	N/A
	64-QAM	2507.5	14.500	13.375	N/A
20M	QPSK	2510.0	19.060	17.830	N/A
	16-QAM	2510.0	19.060	17.814	N/A
	64-QAM	2510.0	19.240	17.853	N/A

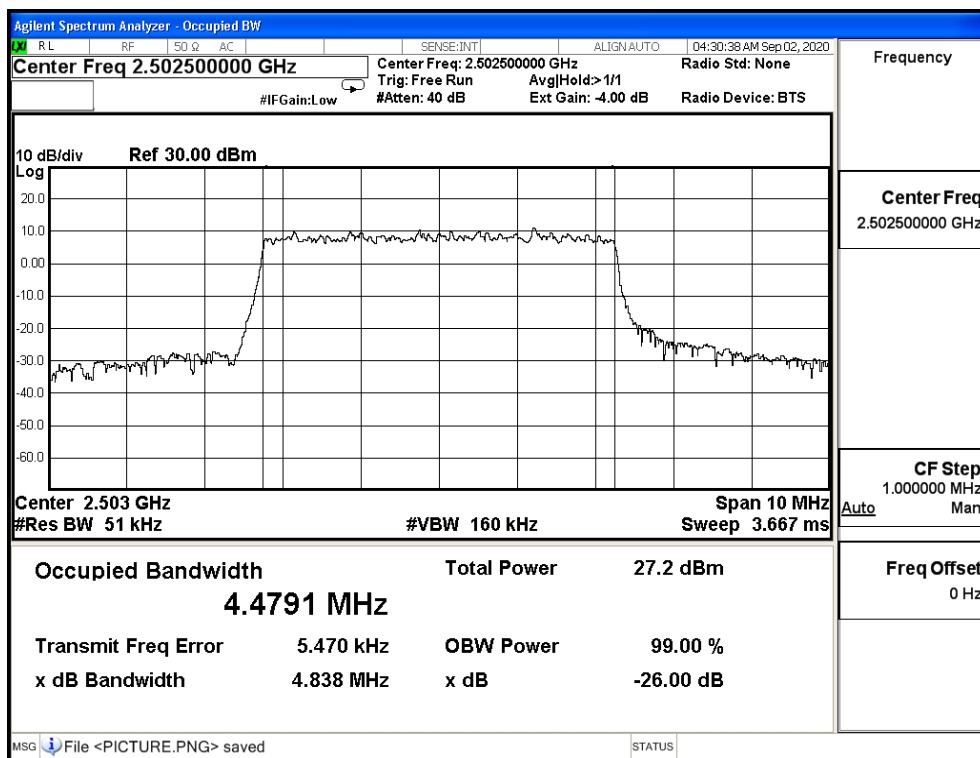
QPSK_CH39715_5M



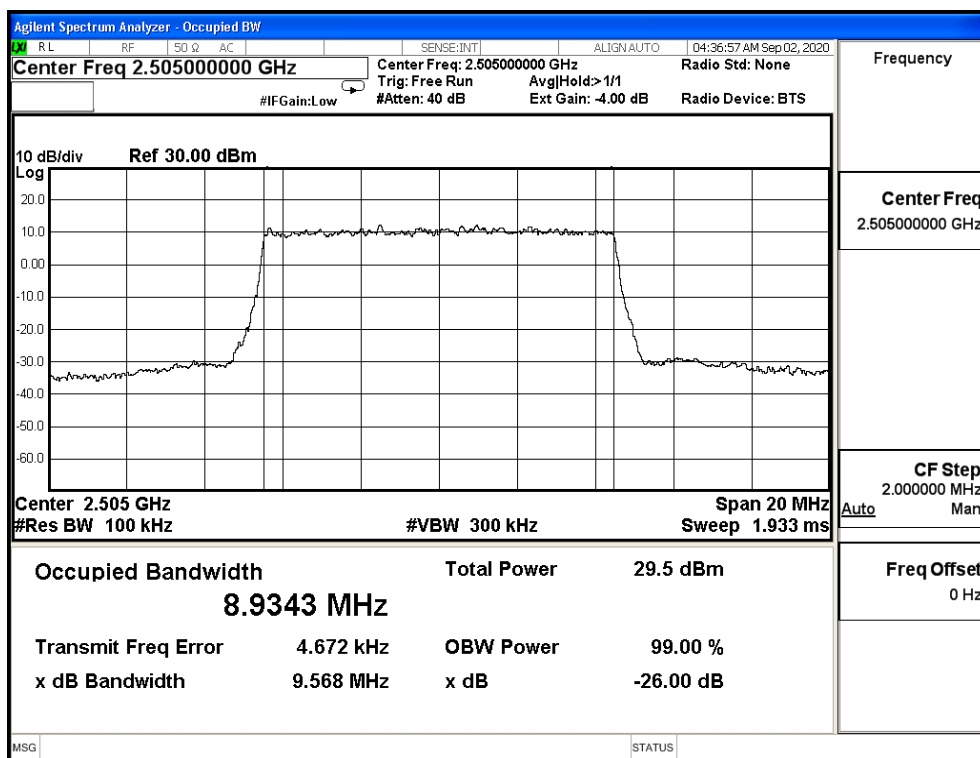
16QAM_CH39715_5M



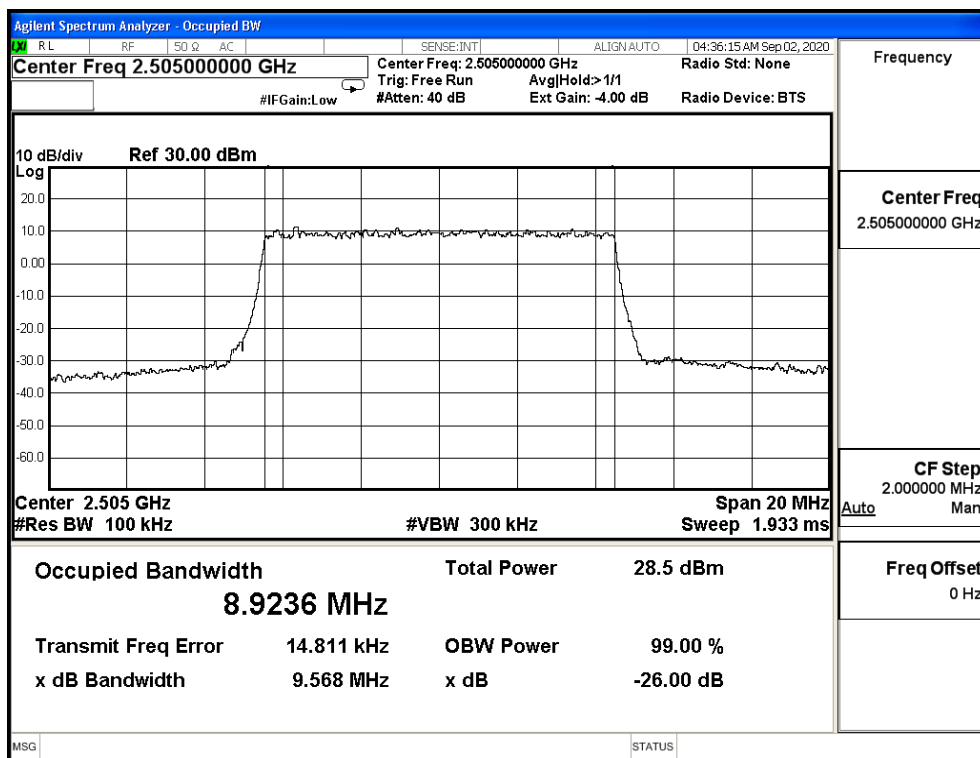
64QAM_CH39715_5M



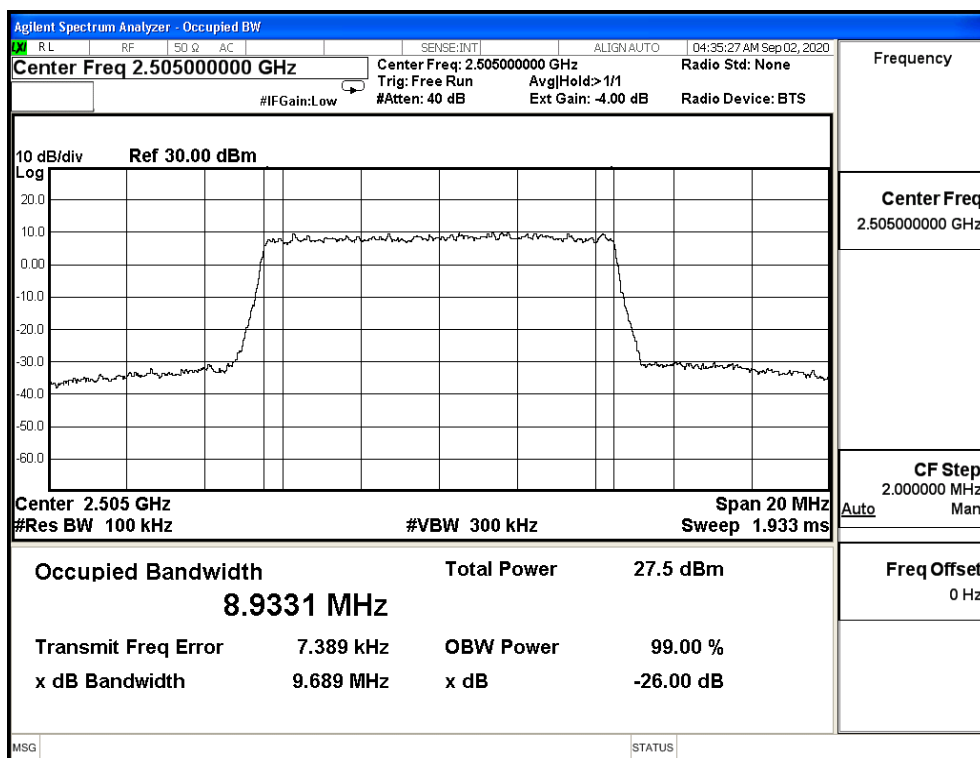
QPSK_CH39740_10M



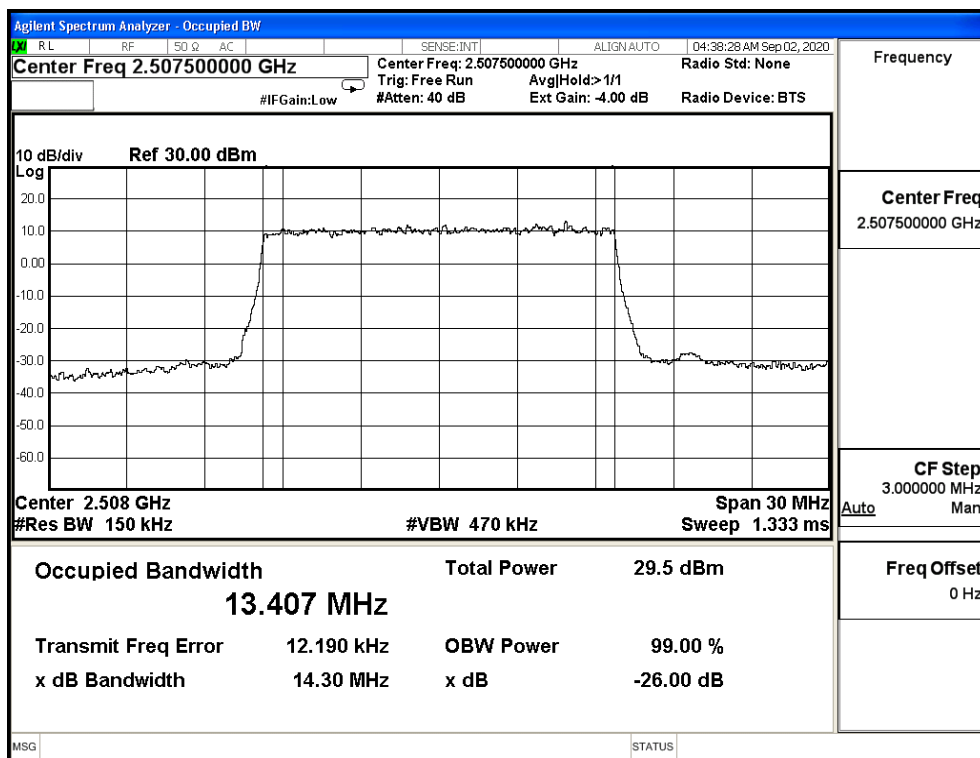
16QAM_CH39740_10M



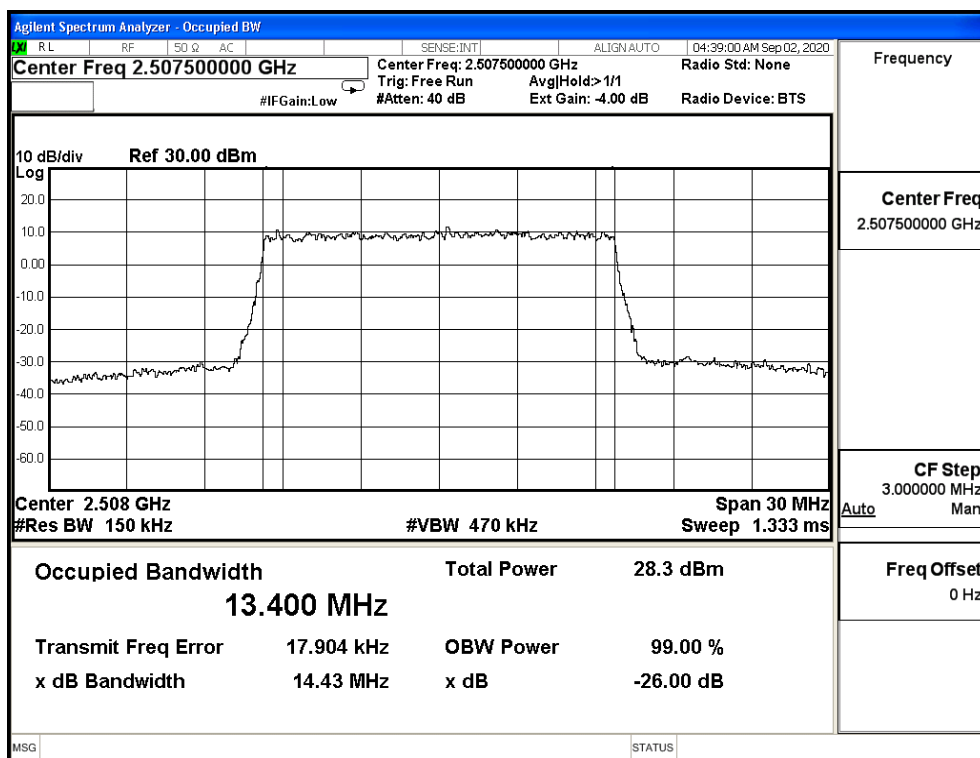
64QAM_CH39740_10M



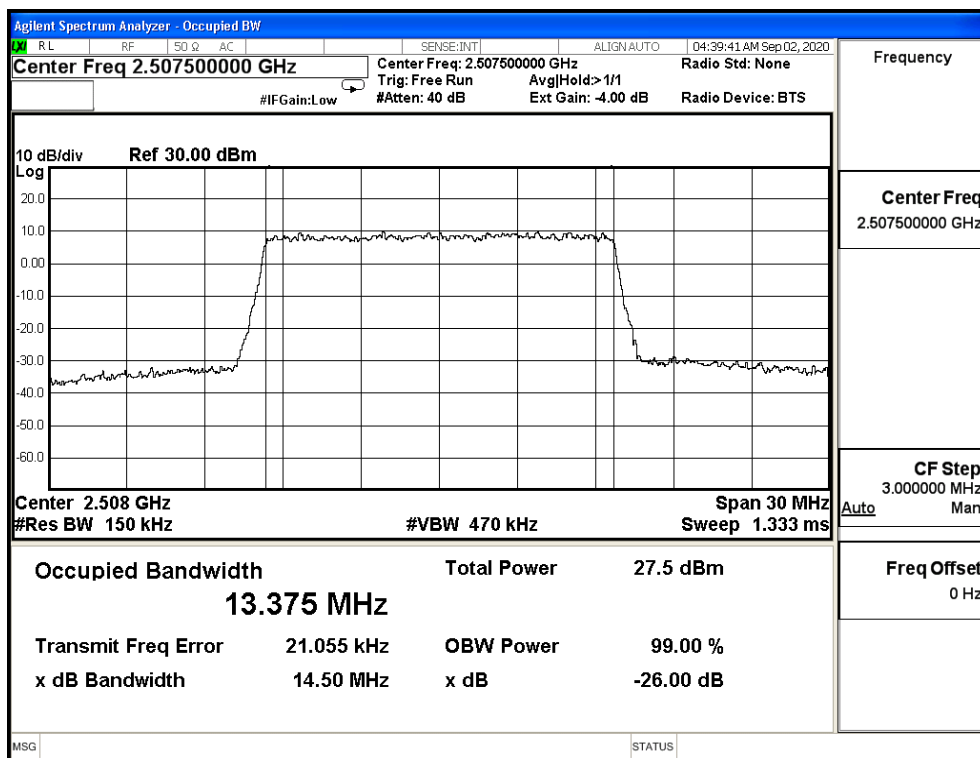
QPSK_CH39765_15M



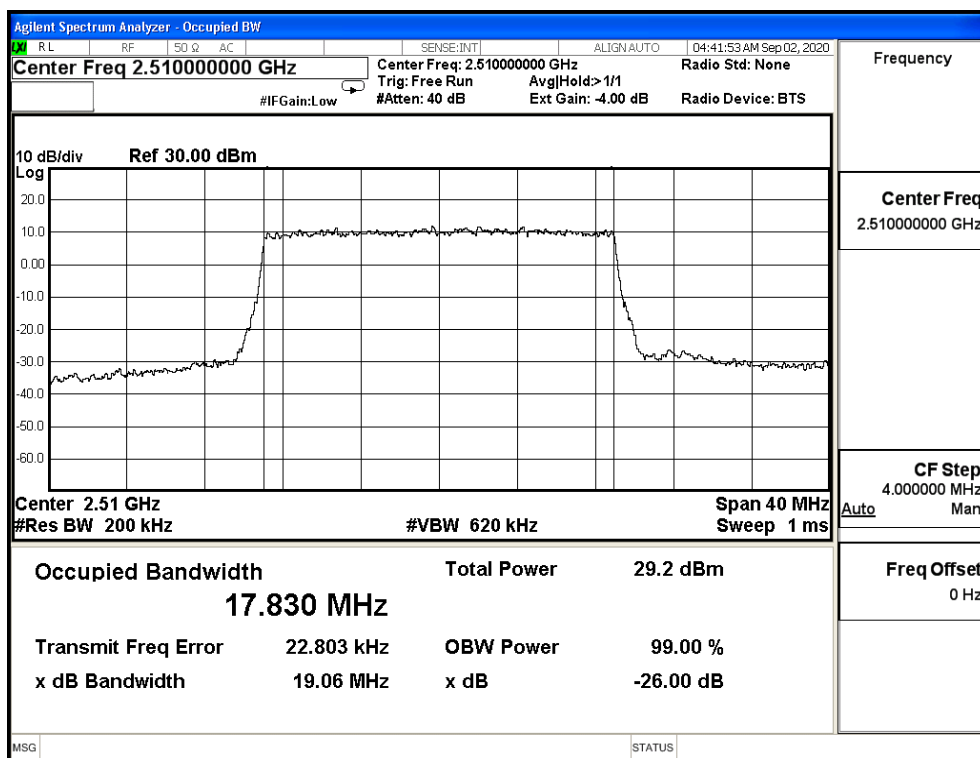
16QAM_CH39765_15M



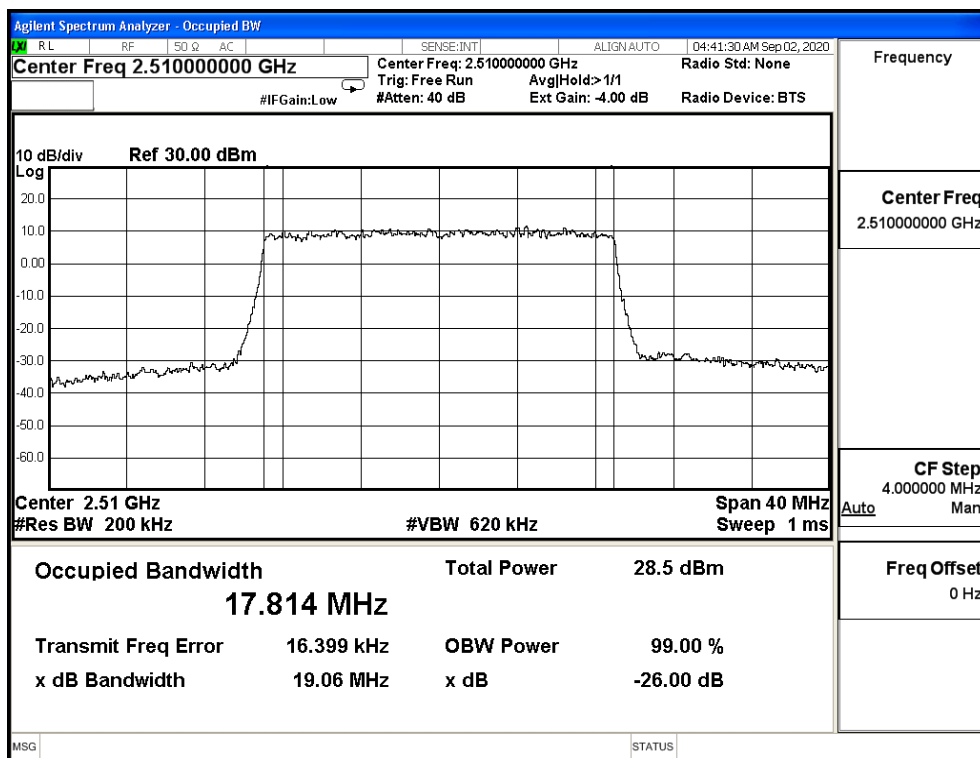
64QAM_CH39765_15M



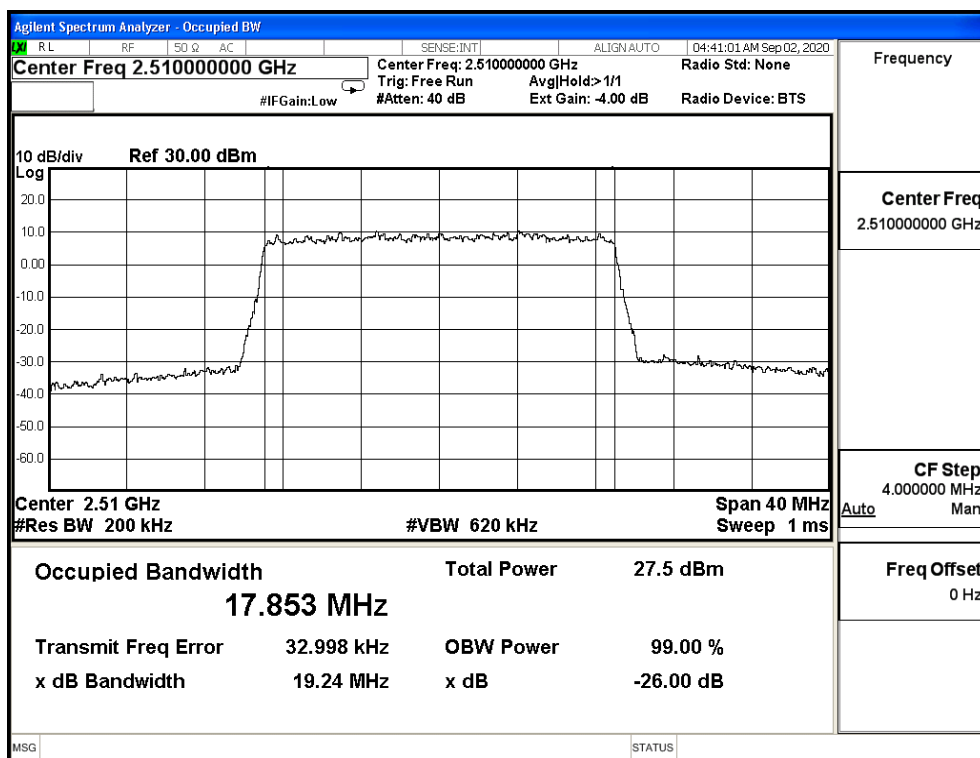
QPSK_CH39790_20M



16QAM_CH39790_20M



64QAM_CH39790_20M

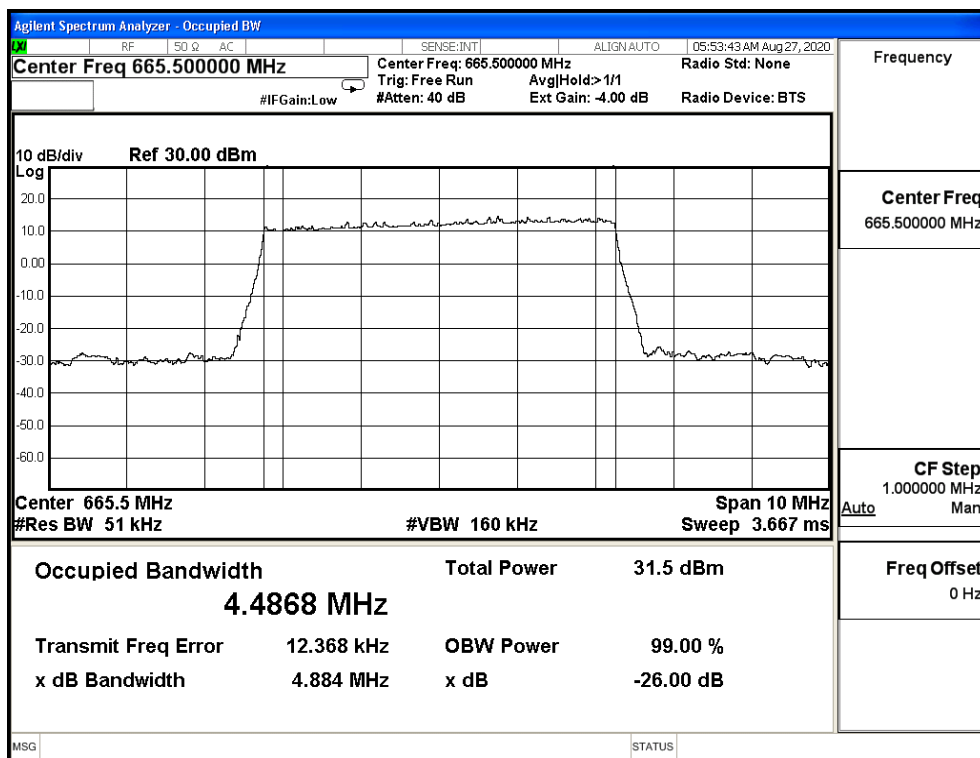


Product	Module		
Test Item	Occupied Bandwidth		
Test Mode	Mode 10: LTE Band 71		
Date of Test	2020/09/02	Test Site	SR12-H
Temperature(°C)	24	Humidity (%RH)	60

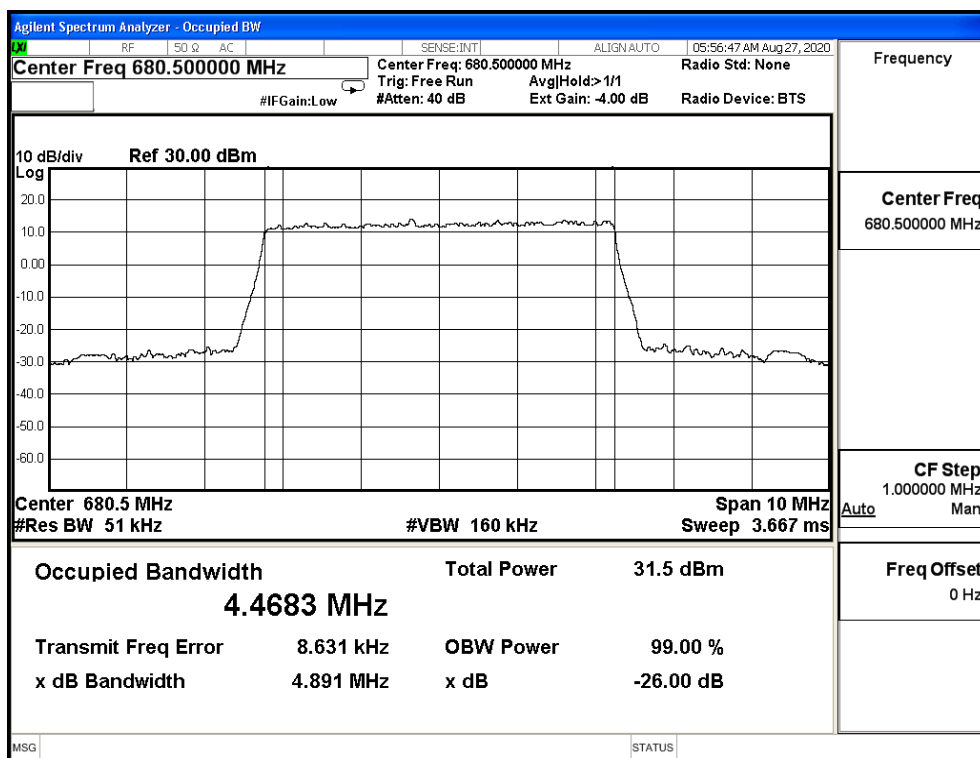
Bandwidth (MHz)	Modulation	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
			26dB BW	99% BW	
5M	QPSK	665.5	4.884	4.487	N/A
		680.5	4.891	4.468	N/A
		690.5	4.890	4.485	N/A
	16-QAM	665.5	4.867	4.469	N/A
		680.5	4.911	4.478	N/A
		690.5	4.898	4.483	N/A
	64-QAM	665.5	4.874	4.481	N/A
		680.5	4.882	4.483	N/A
		690.5	4.874	4.478	N/A
10M	QPSK	668.0	9.579	8.890	N/A
		680.5	9.681	8.940	N/A
		693.0	9.697	8.951	N/A
	16-QAM	668.0	9.559	8.905	N/A
		680.5	9.566	8.938	N/A
		693.0	9.703	8.953	N/A
	64-QAM	668.0	9.562	8.899	N/A
		680.5	9.588	8.929	N/A
		693.0	9.647	8.942	N/A
15M	QPSK	670.5	14.430	13.373	N/A
		680.5	14.360	13.378	N/A
		690.5	14.480	13.420	N/A
	16-QAM	670.5	14.390	13.368	N/A
		680.5	14.410	13.383	N/A
		690.5	14.410	13.406	N/A
	64-QAM	670.5	14.450	13.351	N/A
		680.5	14.420	13.380	N/A
		690.5	14.530	13.410	N/A

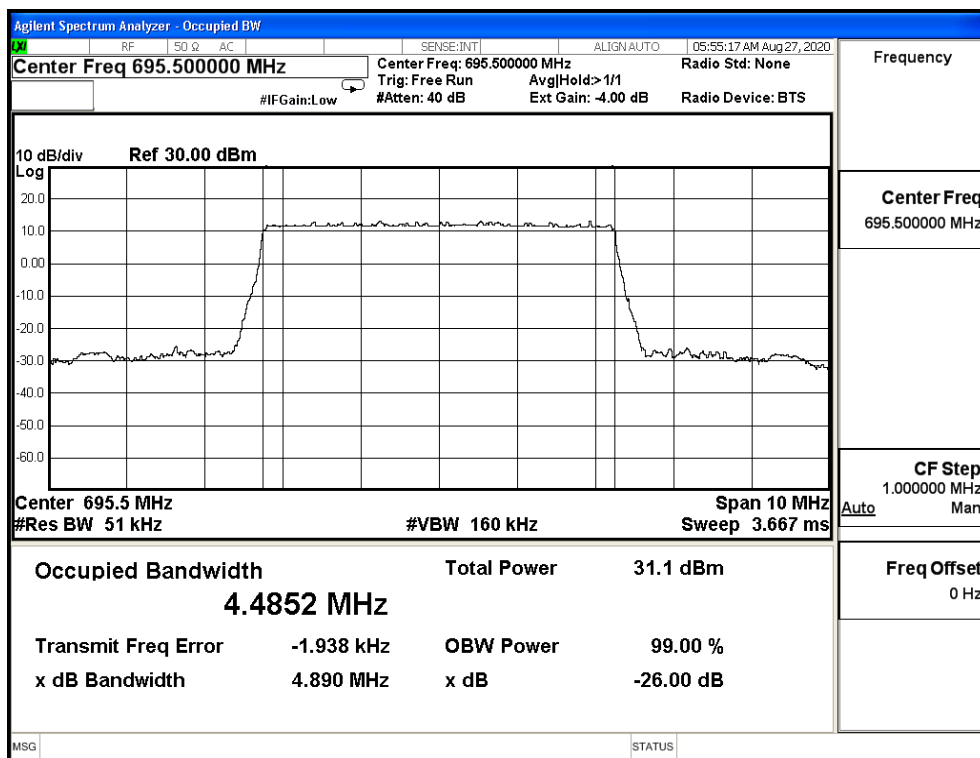
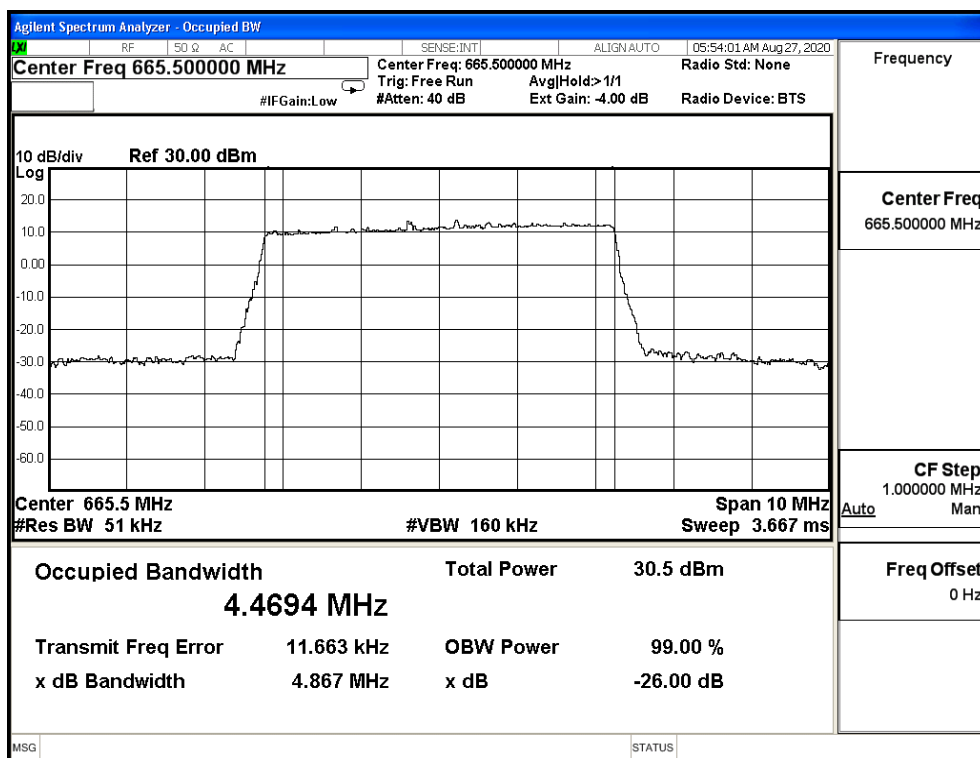
Bandwidth (MHz)	Modulation	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
			26dB BW	99% BW	
20M	QPSK	673.0	19.020	17.843	N/A
		680.5	18.930	17.848	N/A
		688.0	19.050	17.864	N/A
	16-QAM	673.0	19.150	17.843	N/A
		680.5	19.160	17.879	N/A
		688.0	19.060	17.837	N/A
	64-QAM	673.0	19.160	17.835	N/A
		680.5	19.210	17.857	N/A
		688.0	19.130	17.838	N/A

QPSK_CH133147_5M

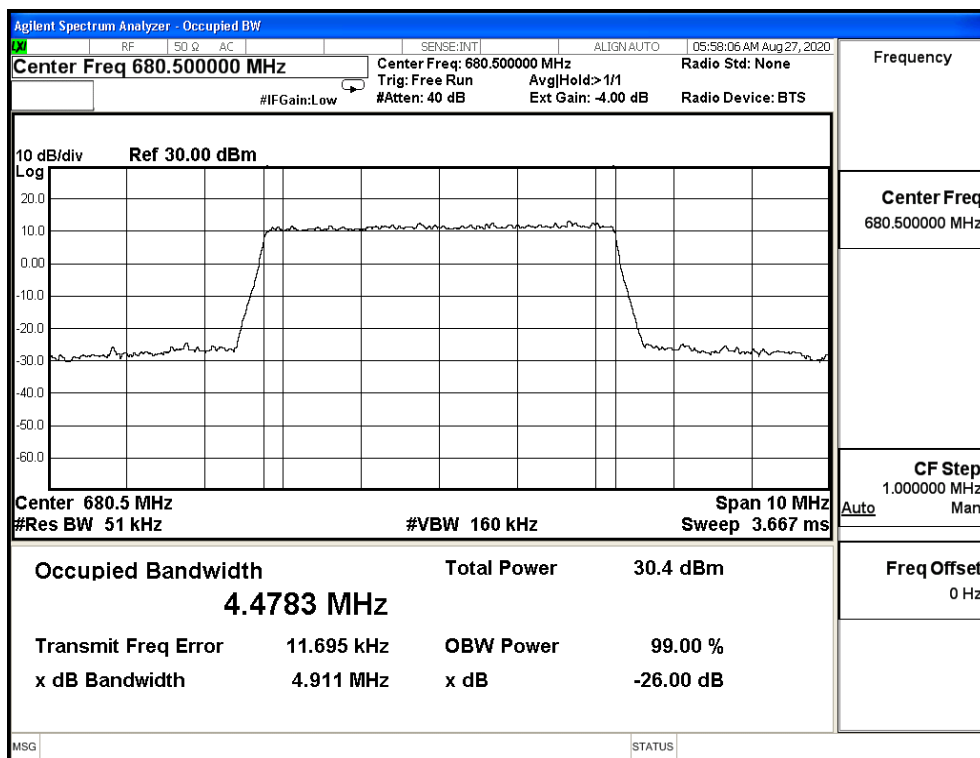


QPSK_CH133297_5M

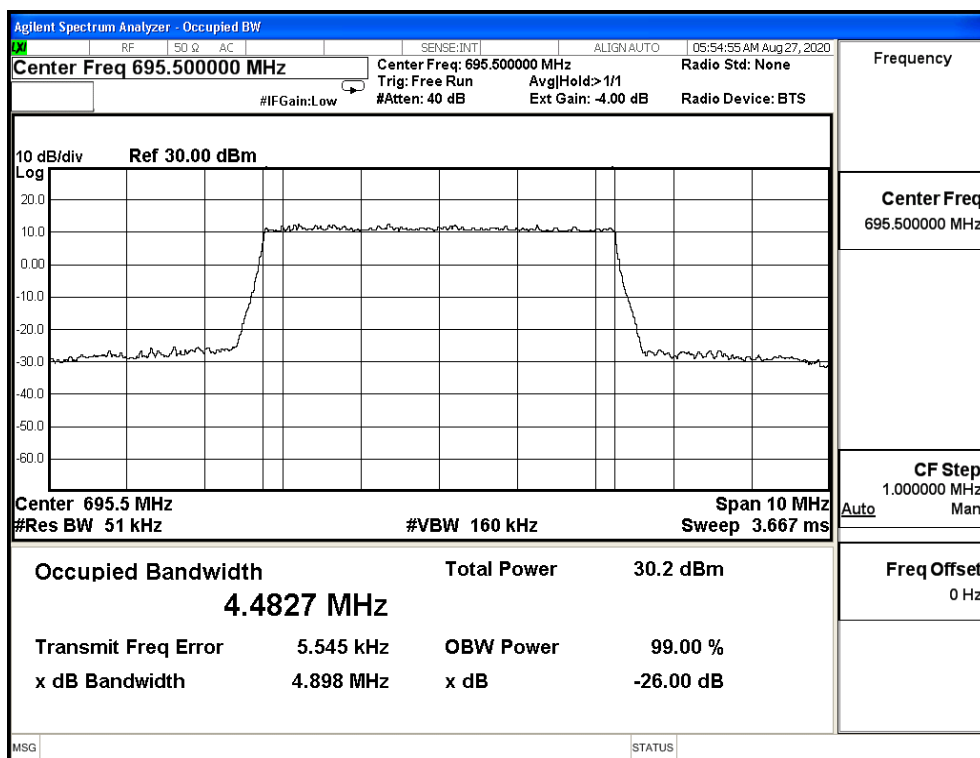


_QPSK_CH133447_5M16QAM_CH133147_5M

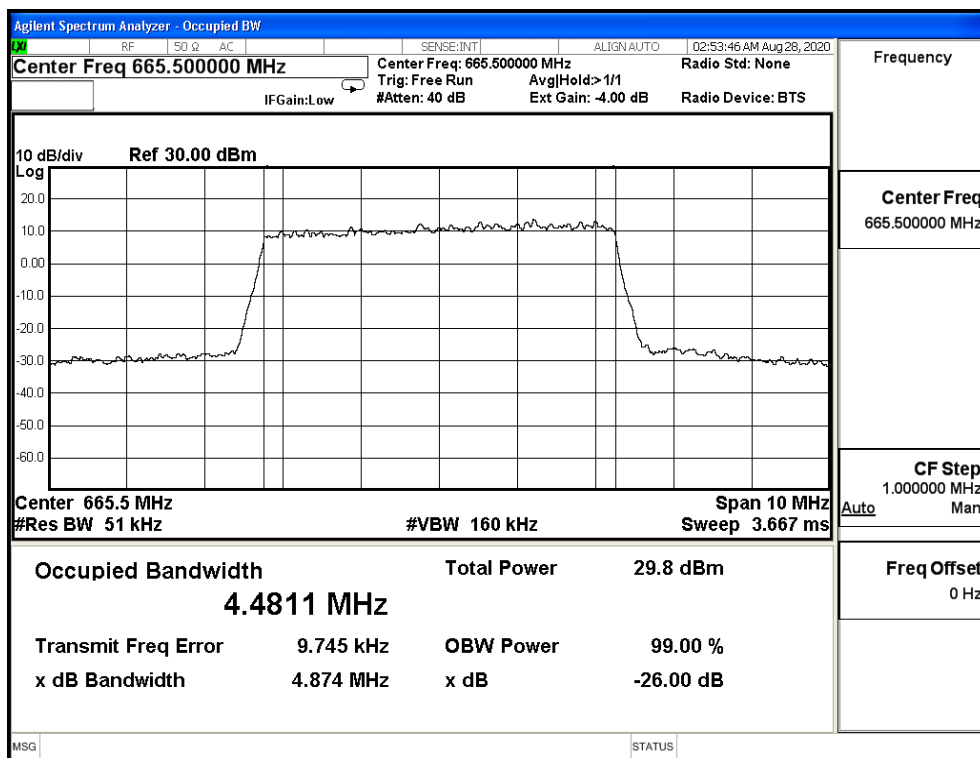
16QAM_CH133297_5M



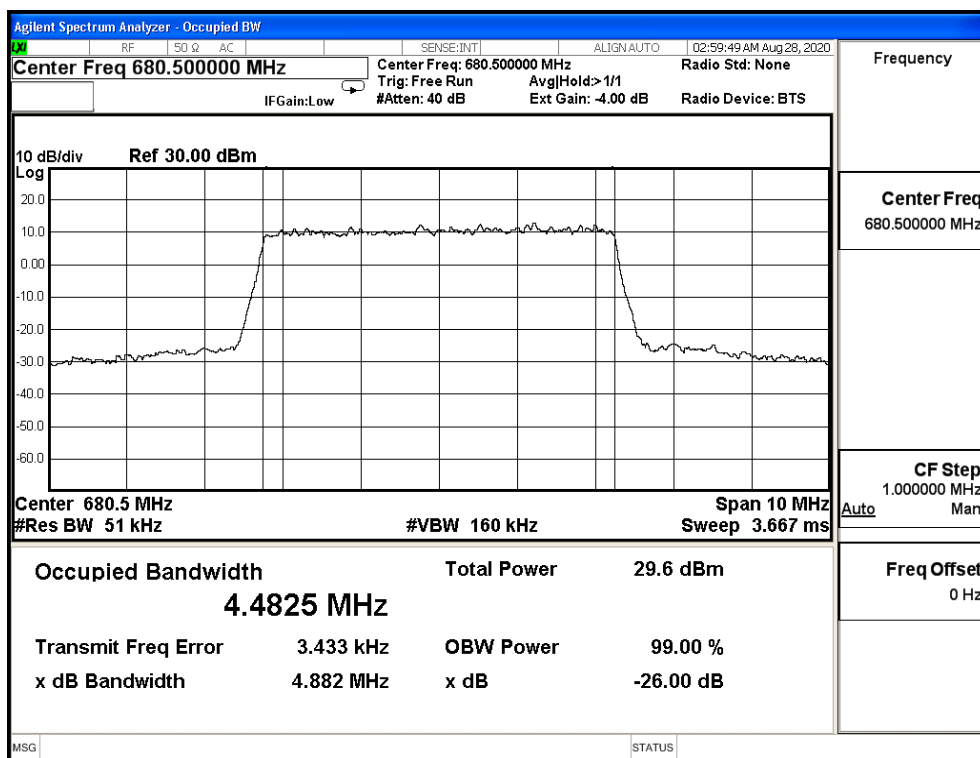
16QAM_CH133447_5M



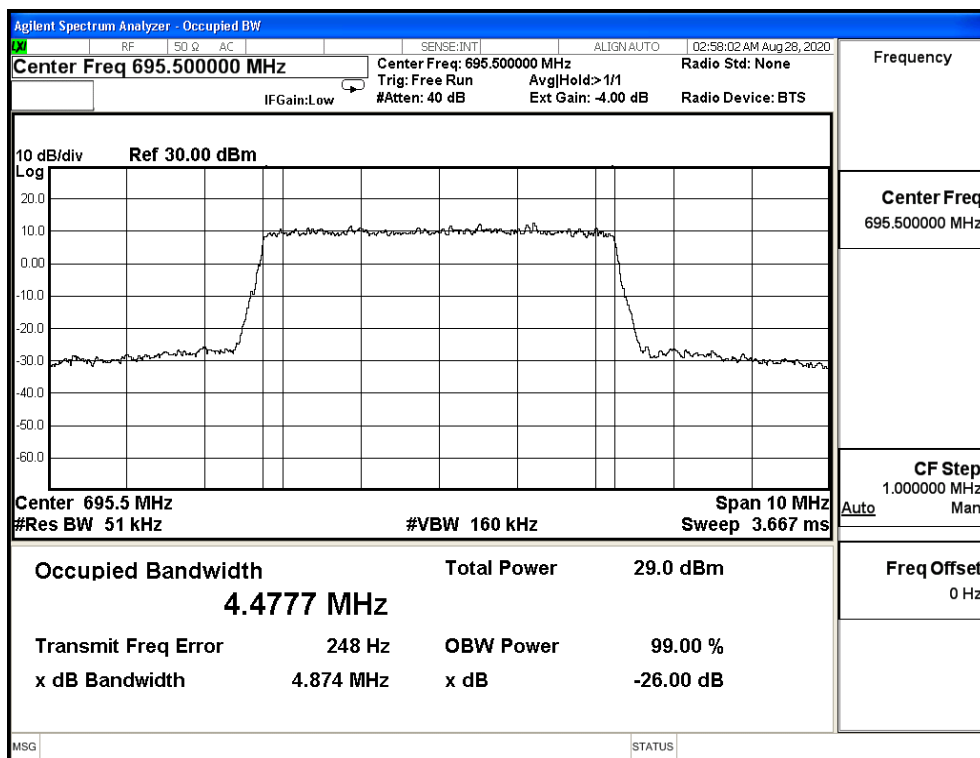
64QAM_CH133147_5M



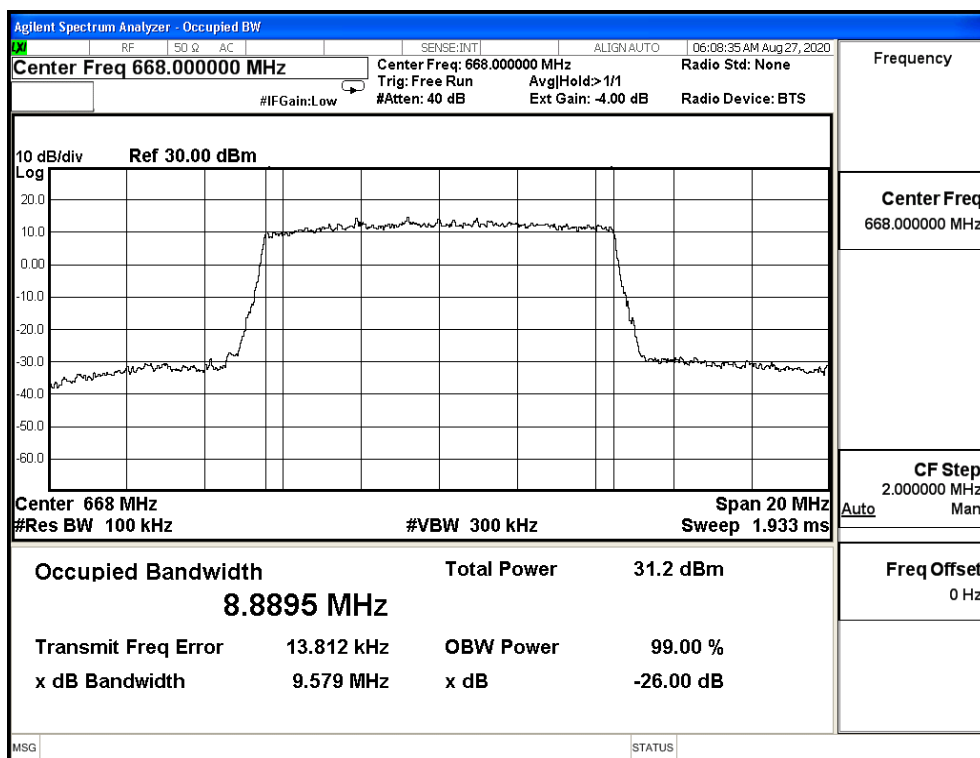
64QAM_CH133297_5M



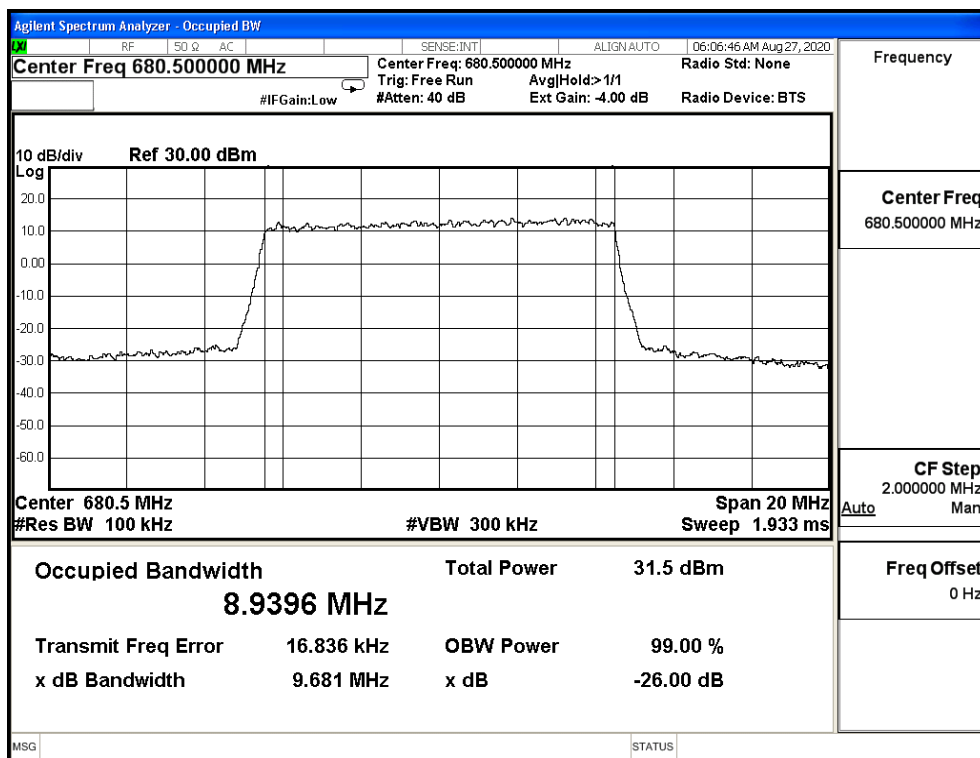
64QAM_CH133447_5M



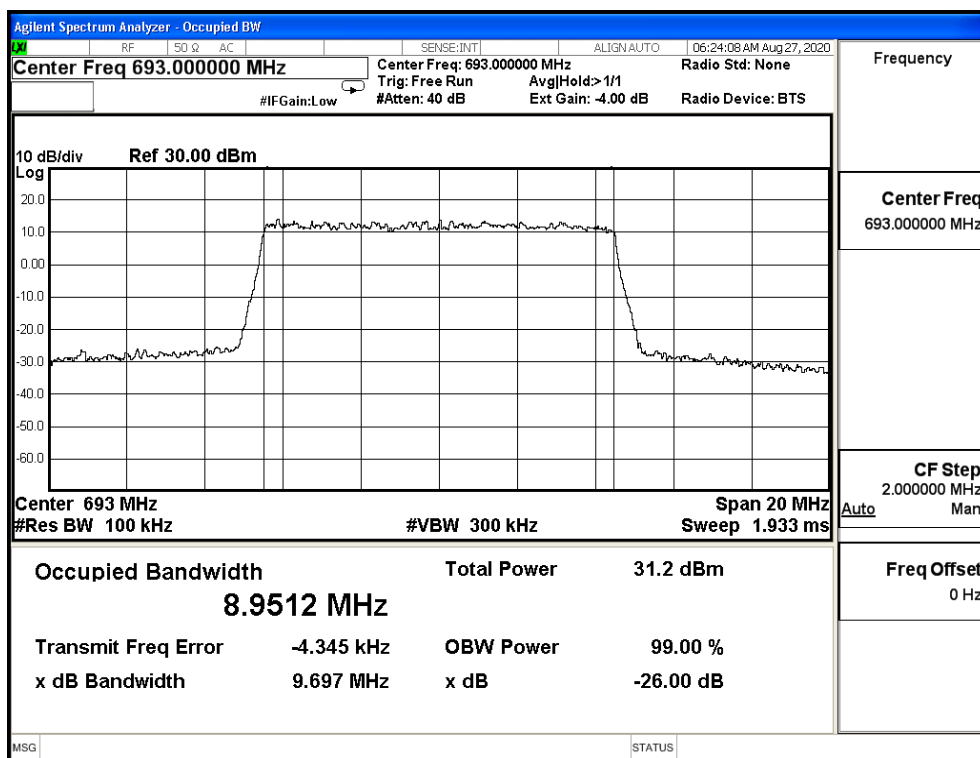
QPSK_CH133172_10M



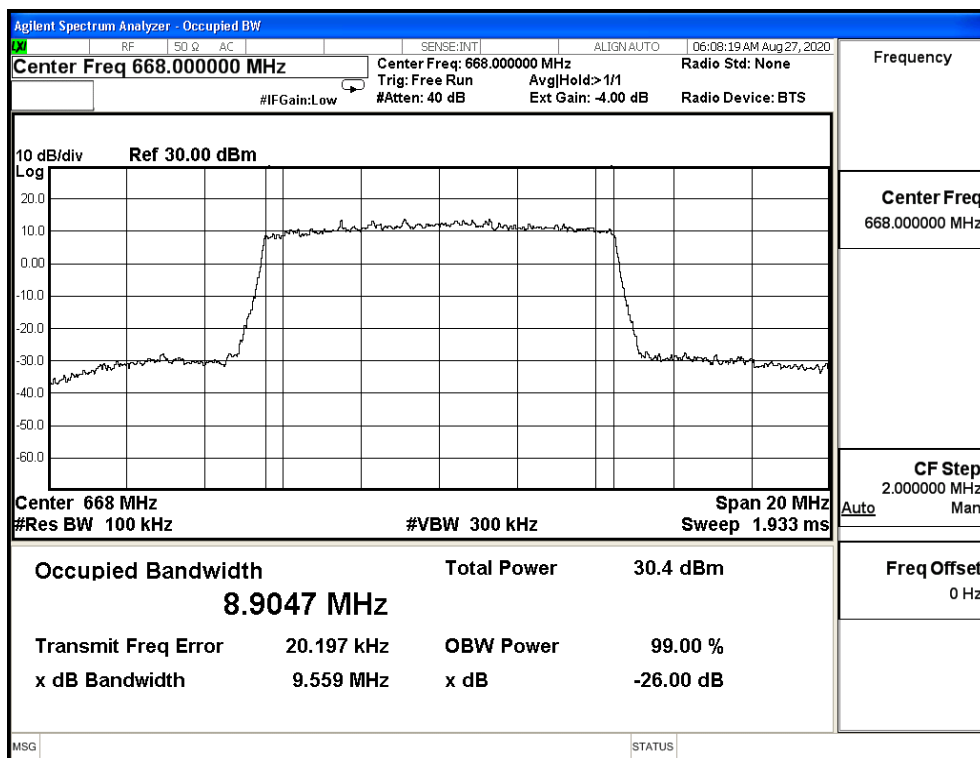
QPSK_CH133297_10M



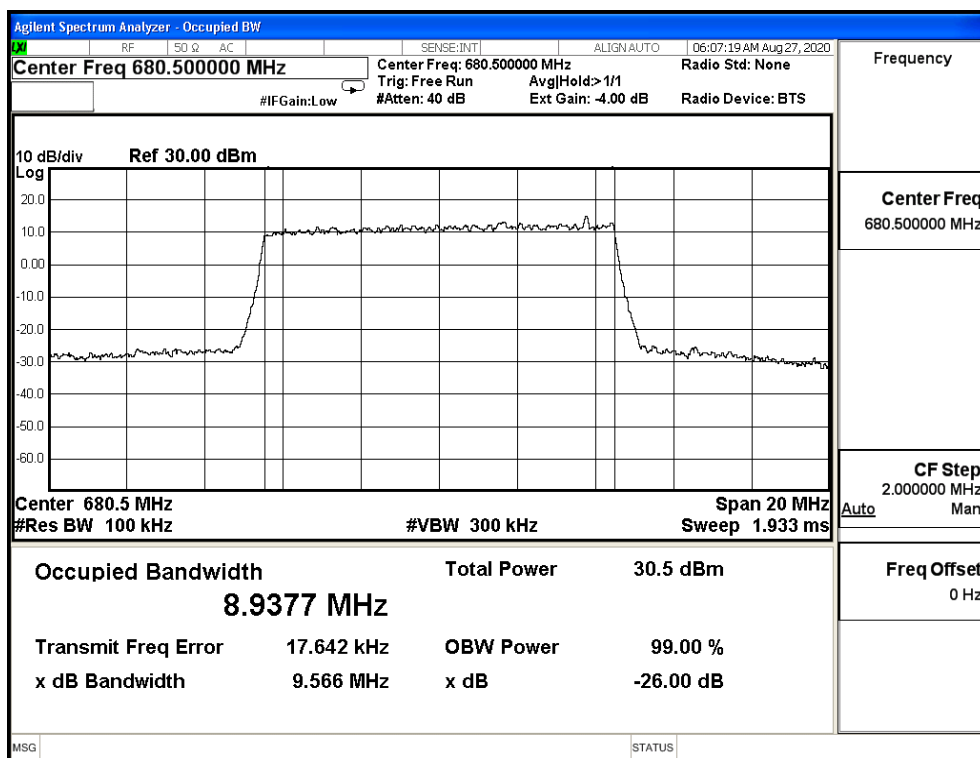
QPSK_CH133422_10M



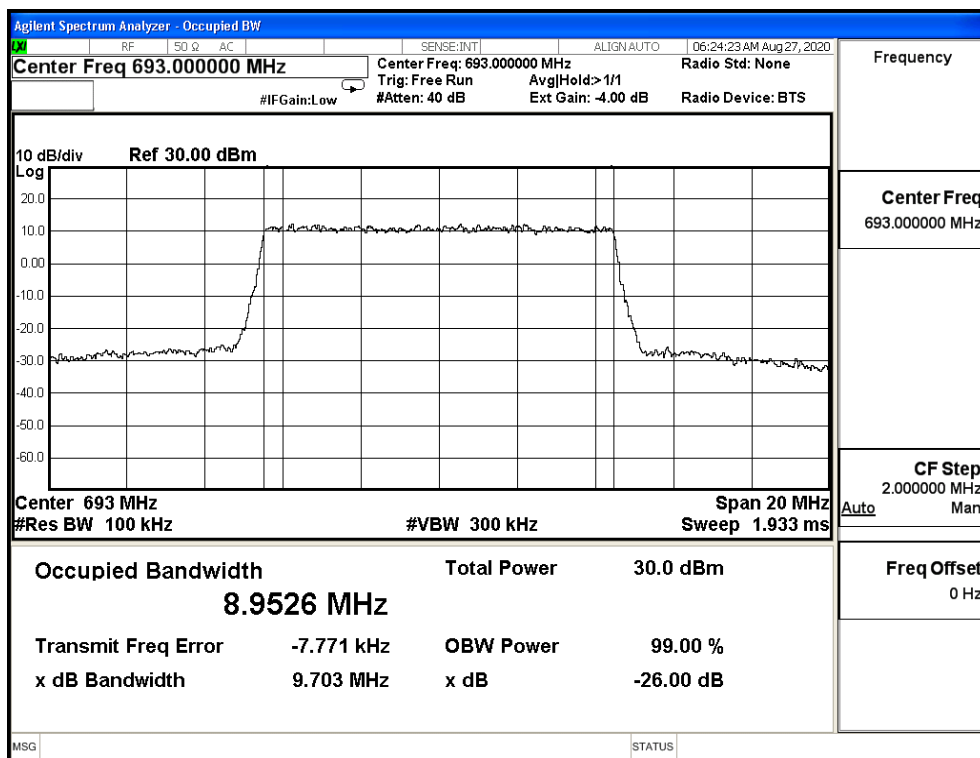
16QAM_CH133172_10M



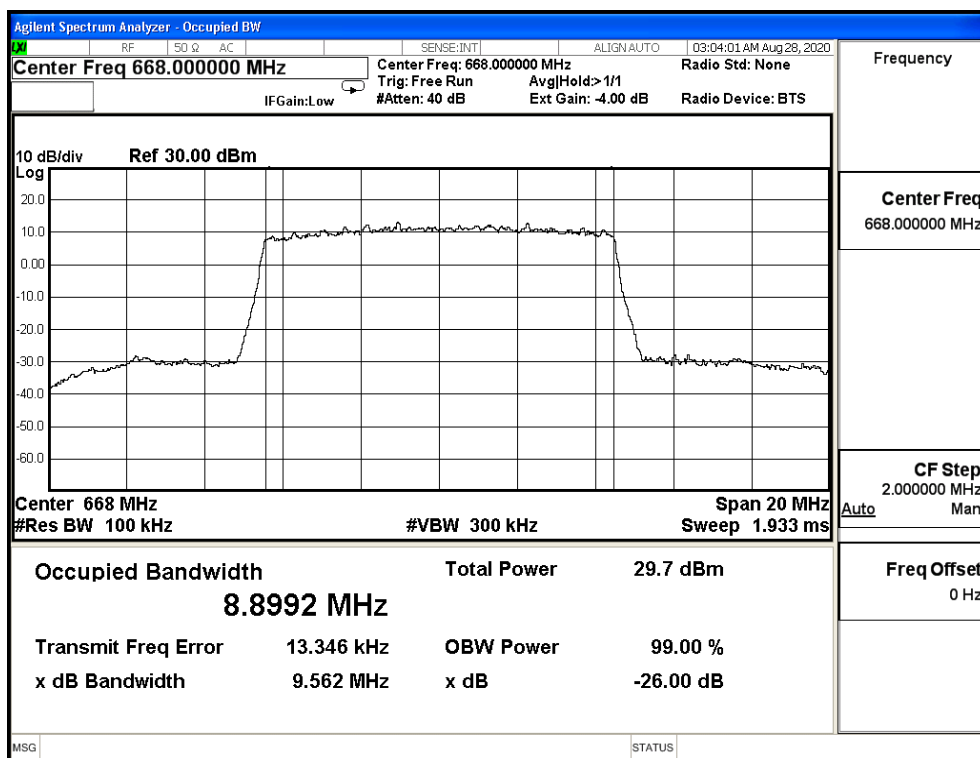
16QAM_CH133297_10M



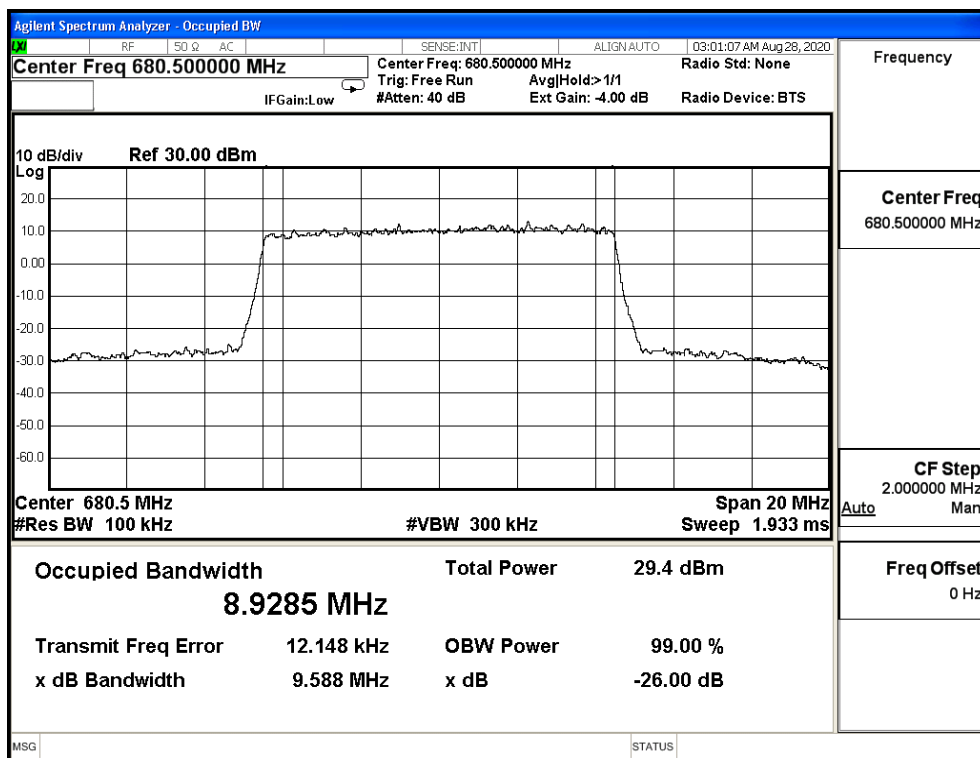
16QAM_CH133422_10M



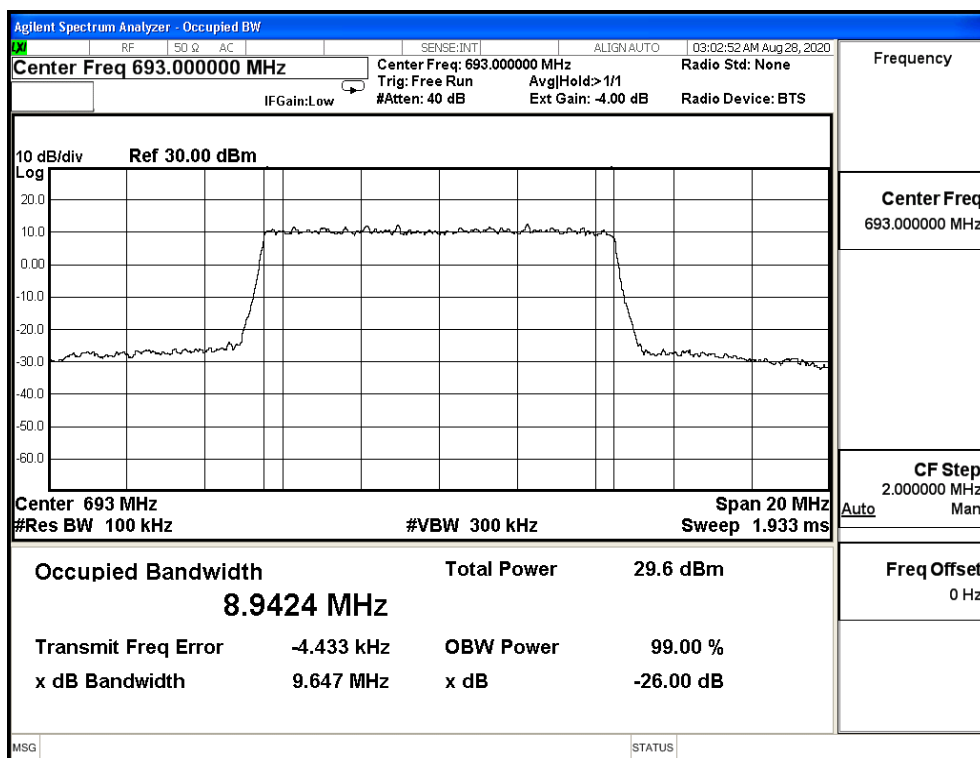
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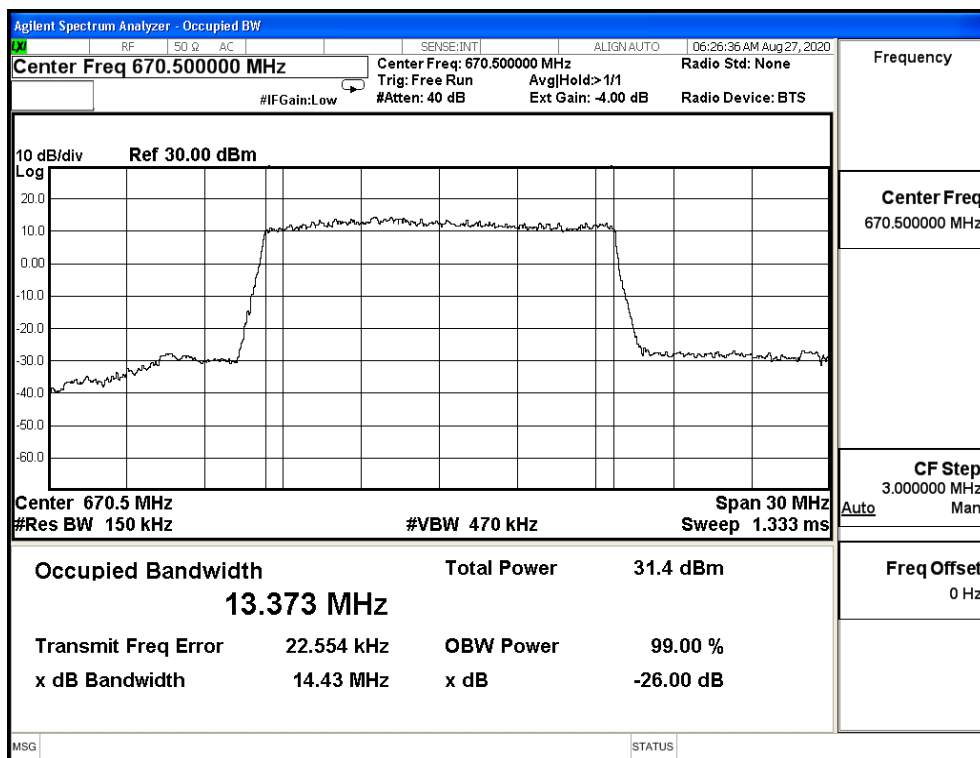
64QAM_CH133297_10M



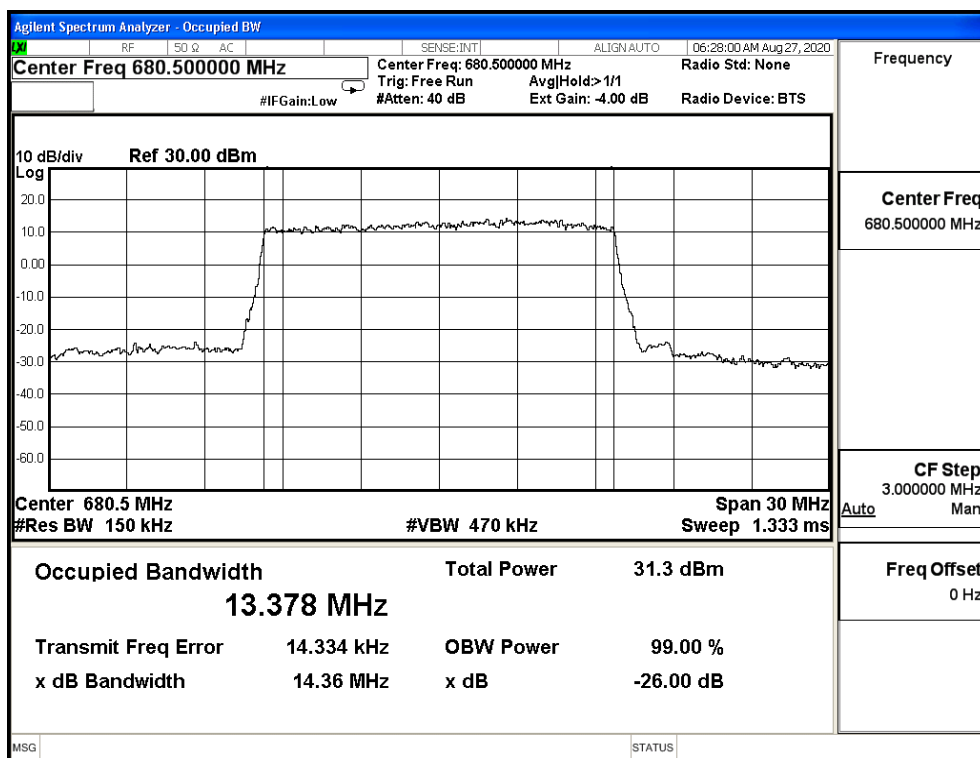
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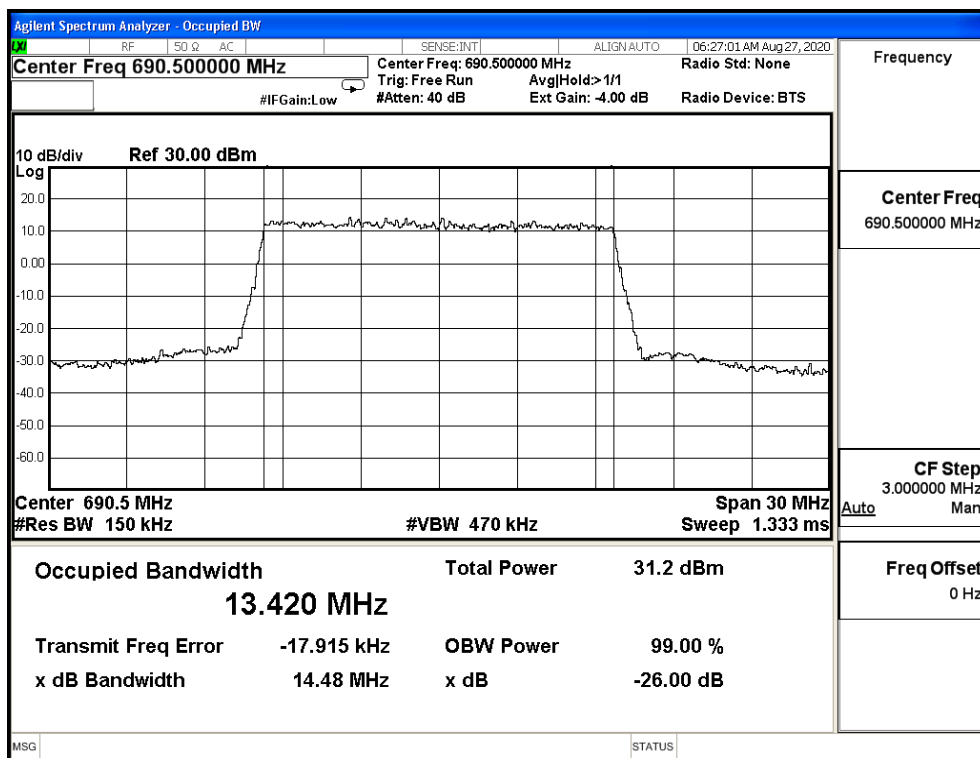
QPSK_CH133197_15M



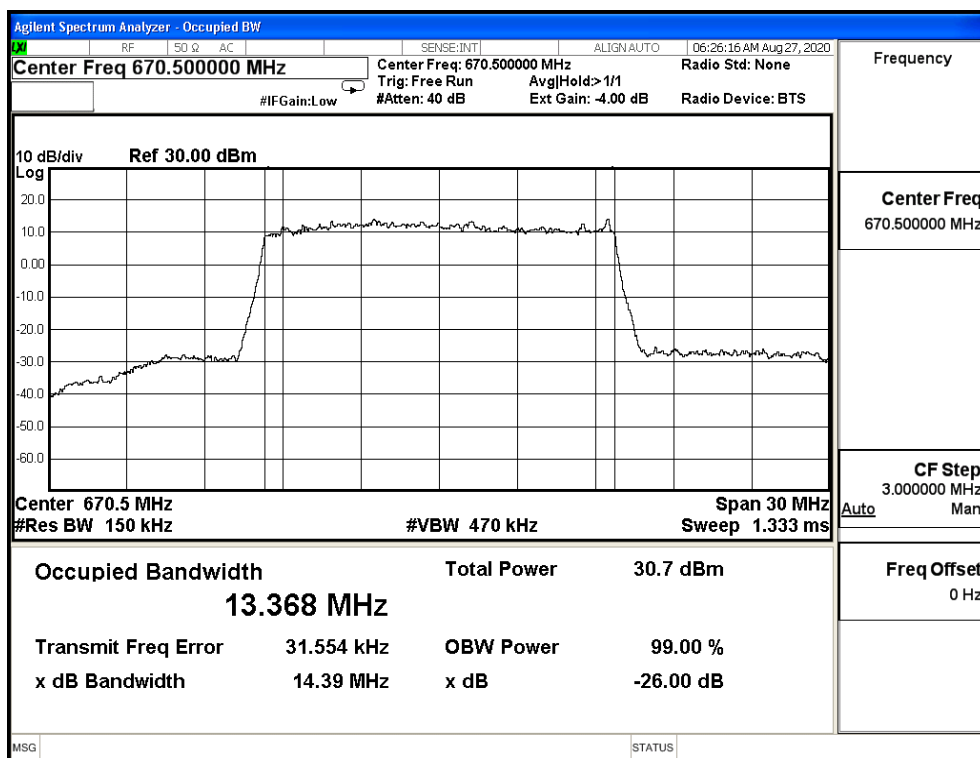
QPSK_CH133297_15M



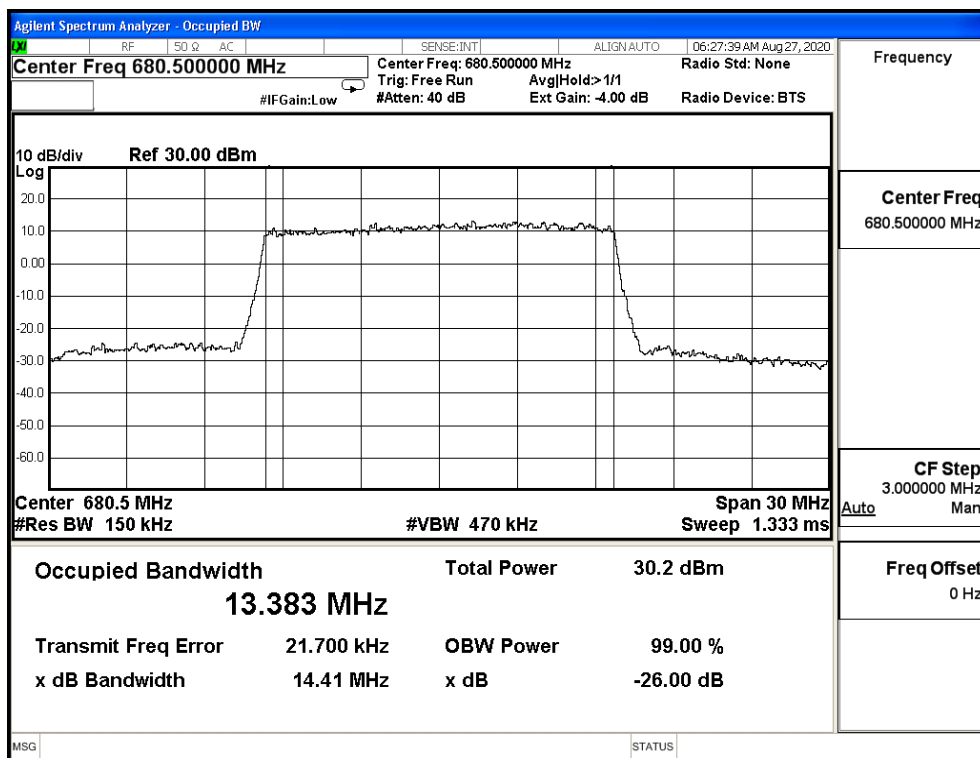
QPSK_CH133397_15M



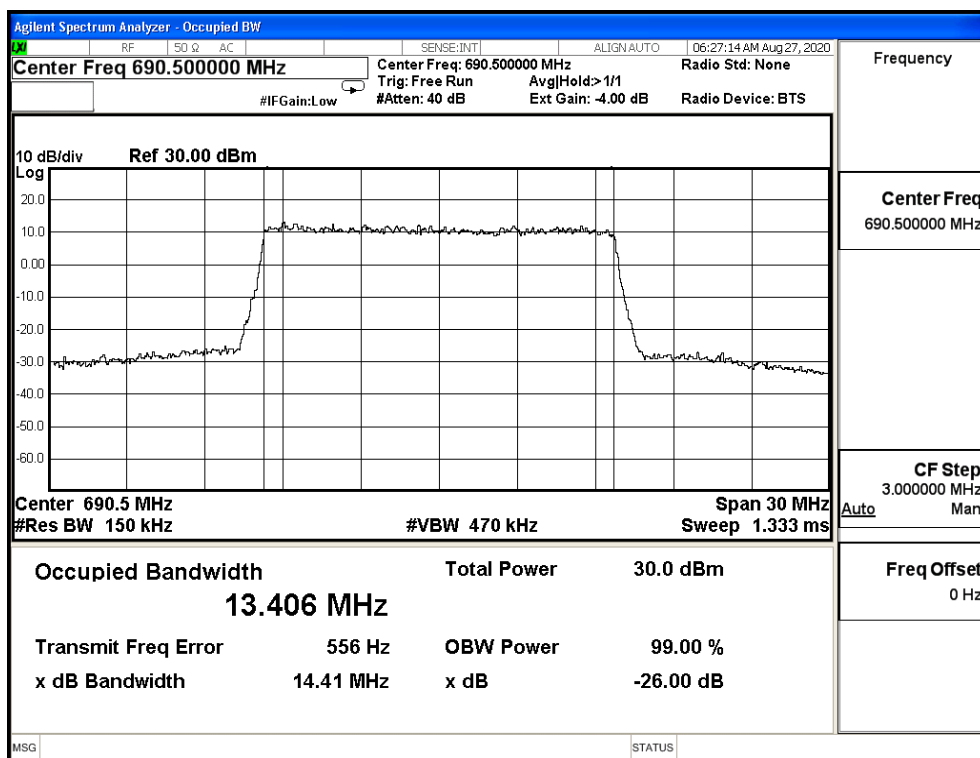
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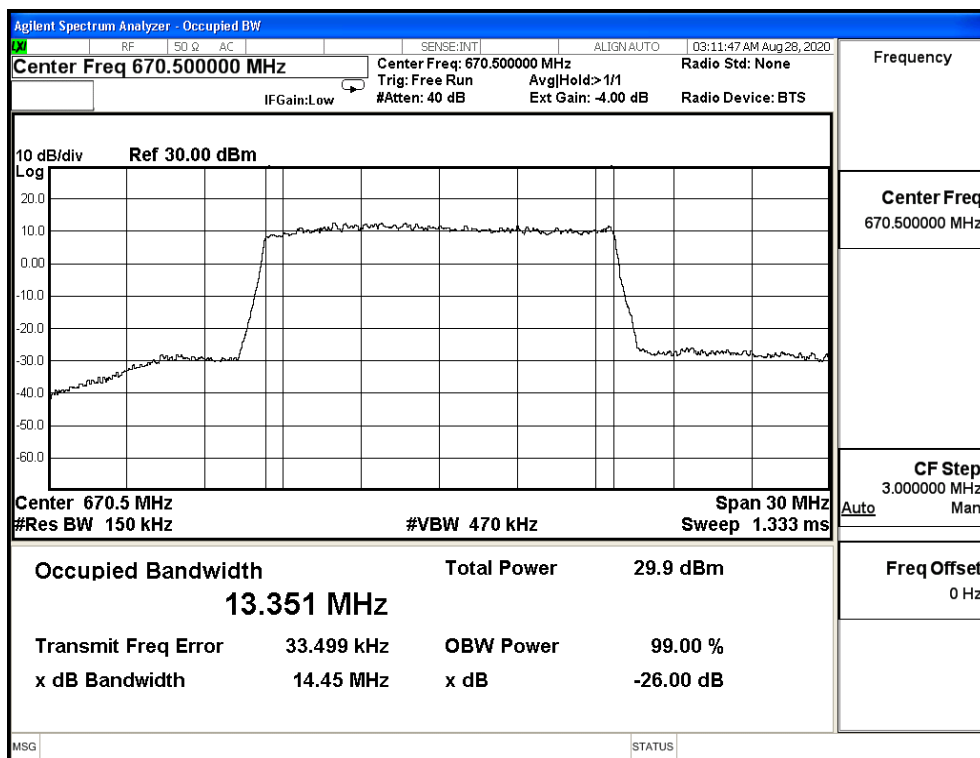
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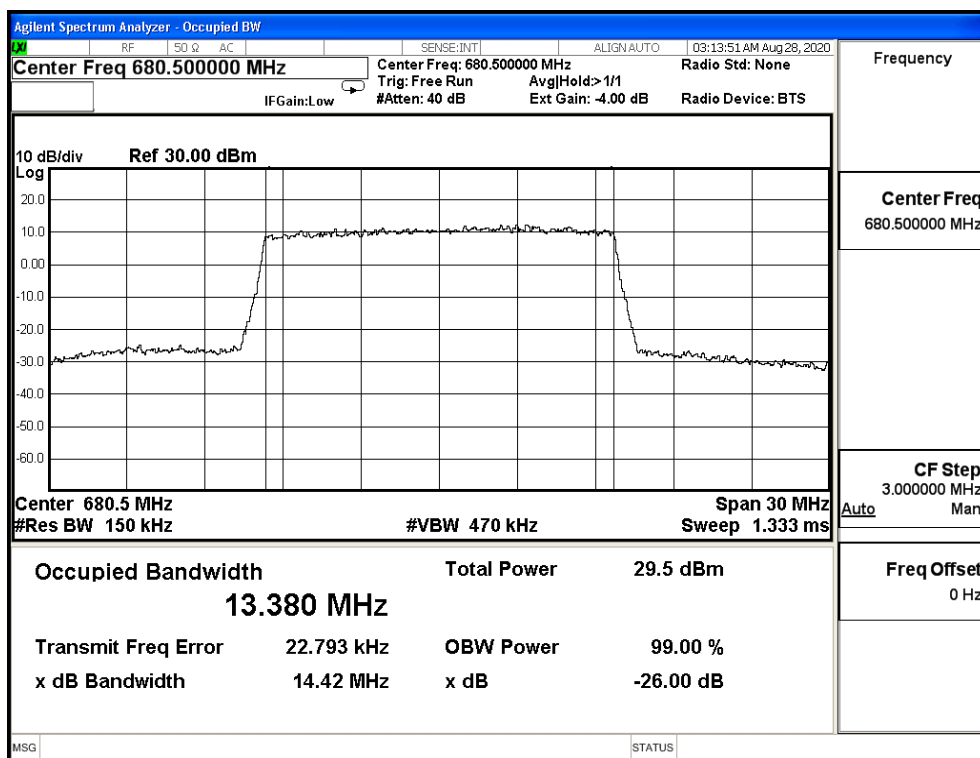
16QAM_CH133397_15M



64QAM_CH133197_15M



64QAM_CH133297_15M



Agilent Spectrum Analyzer - Occupied BW

RF 50 Ω AC SENSE:INT ALIGN: AUTO 03:13:07 AM Aug 28, 2020

Center Freq 690.500000 MHz Center Freq: 690.500000 MHz Radio Std: None
 Trig: Free Run Avg/Hold: > 1/1
 #Atten: 40 dB Ext Gain: -4.00 dB Radio Device: BTS

IF Gain: Low

10 dB/div Ref 30.00 dBm

Log

Center 690.5 MHz Span 30 MHz
 #Res BW 150 kHz #VBW 470 kHz Sweep 1.333 ms

Occupied Bandwidth	Total Power
13.410 MHz	29.7 dBm

Transmit Freq Error	OBW Power
-3.050 kHz	99.00 %

x dB Bandwidth	x dB
14.53 MHz	-26.00 dB

Agilent Spectrum Analyzer - Occupied BW

RF 50 Ω AC SENSE:INT ALIGN: AUTO 06:29:27 AM Aug 27, 2020

Center Freq 673.000000 MHz Center Freq: 673.000000 MHz Radio Std: None Frequency
 #IFGain: Low #Atten: 40 dB Ext Gain: -4.00 dB Radio Device: BTS

10 dB/div Ref 30.00 dBm

Log

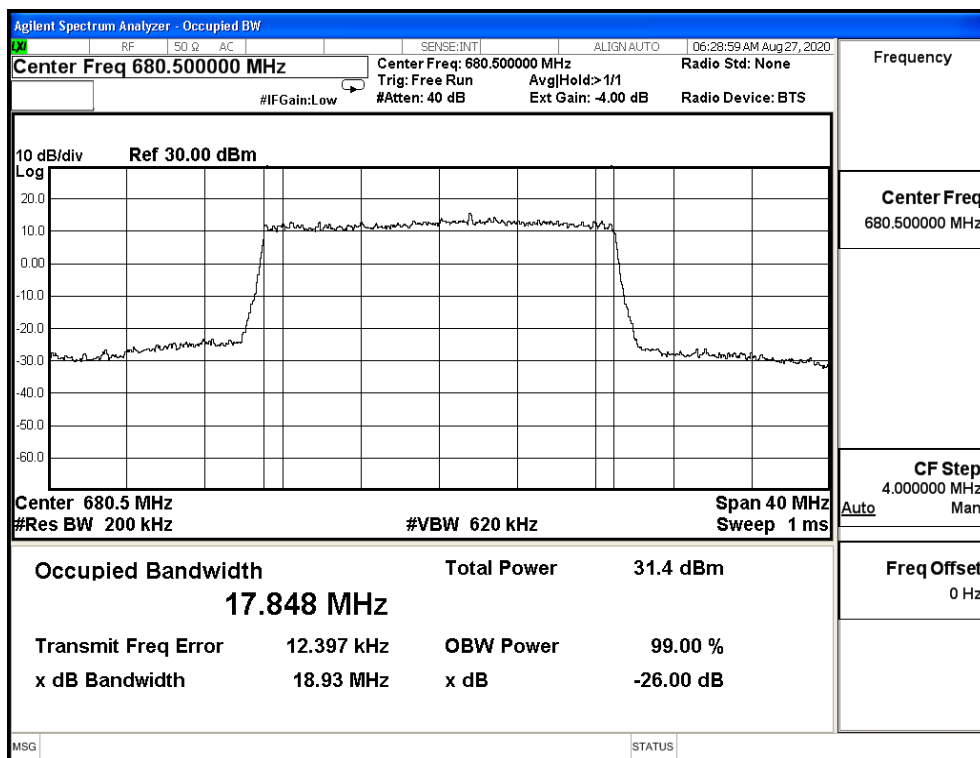
Center 673 MHz Span 40 MHz
 #Res BW 200 kHz #VBW 620 kHz Sweep 1 ms

Occupied Bandwidth	Total Power	31.5 dBm
17.843 MHz		
Transmit Freq Error	71.490 kHz	OBW Power 99.00 %
x dB Bandwidth	19.02 MHz	x dB -26.00 dB

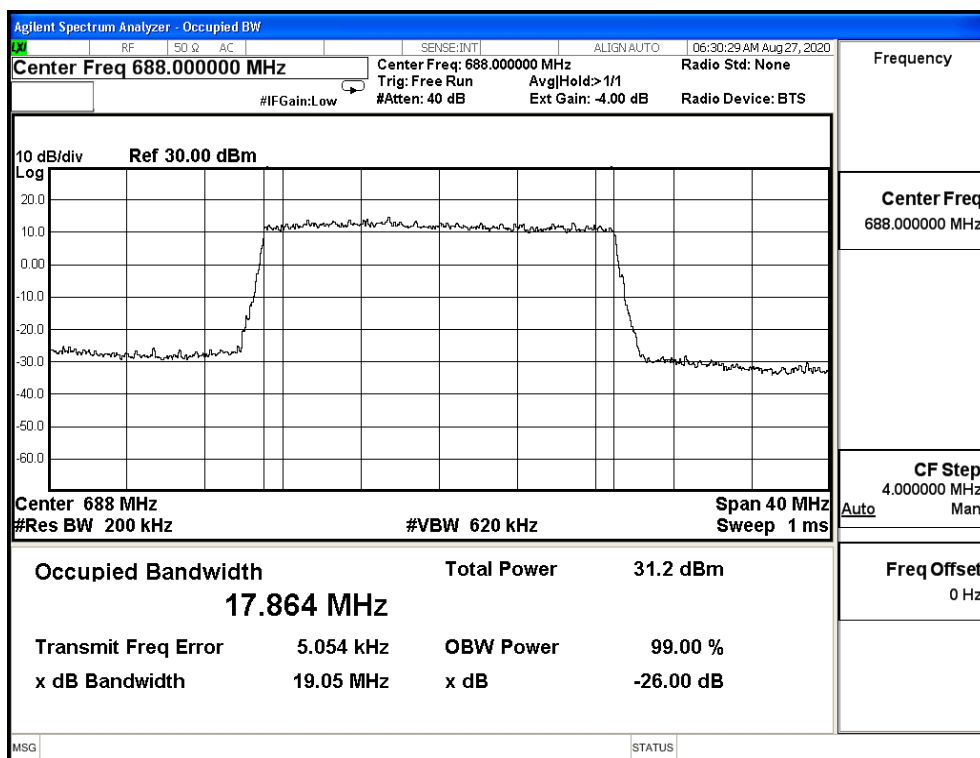
CF Step 4.000000 MHz Man
 Auto
 Freq Offset 0 Hz

MSG STATUS

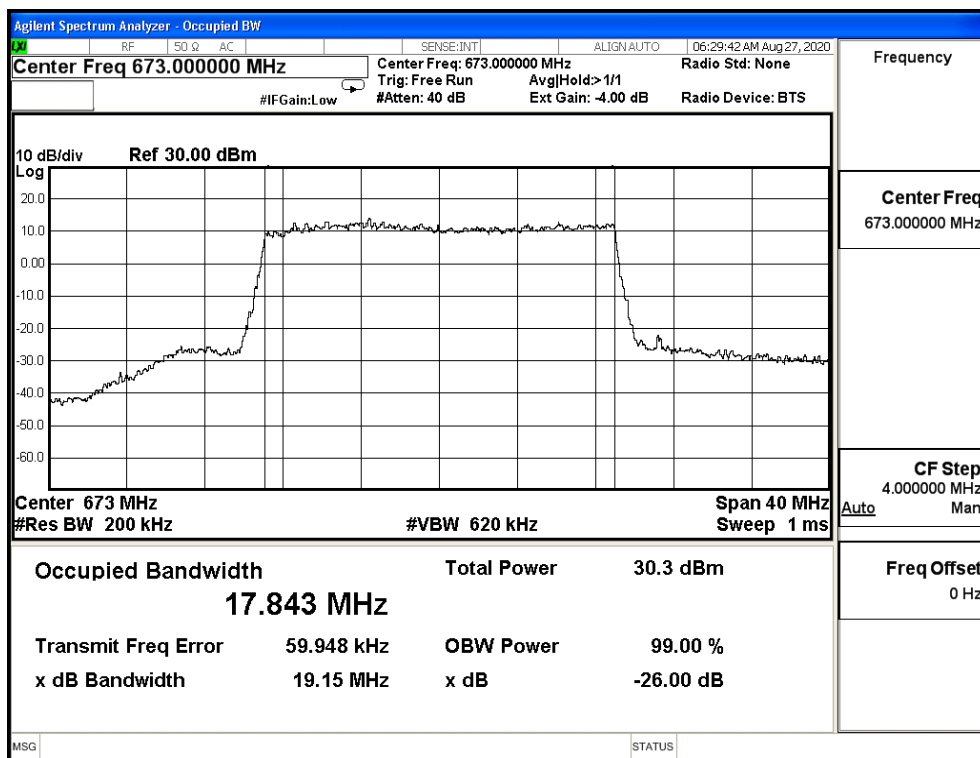
QPSK_CH133297_20M



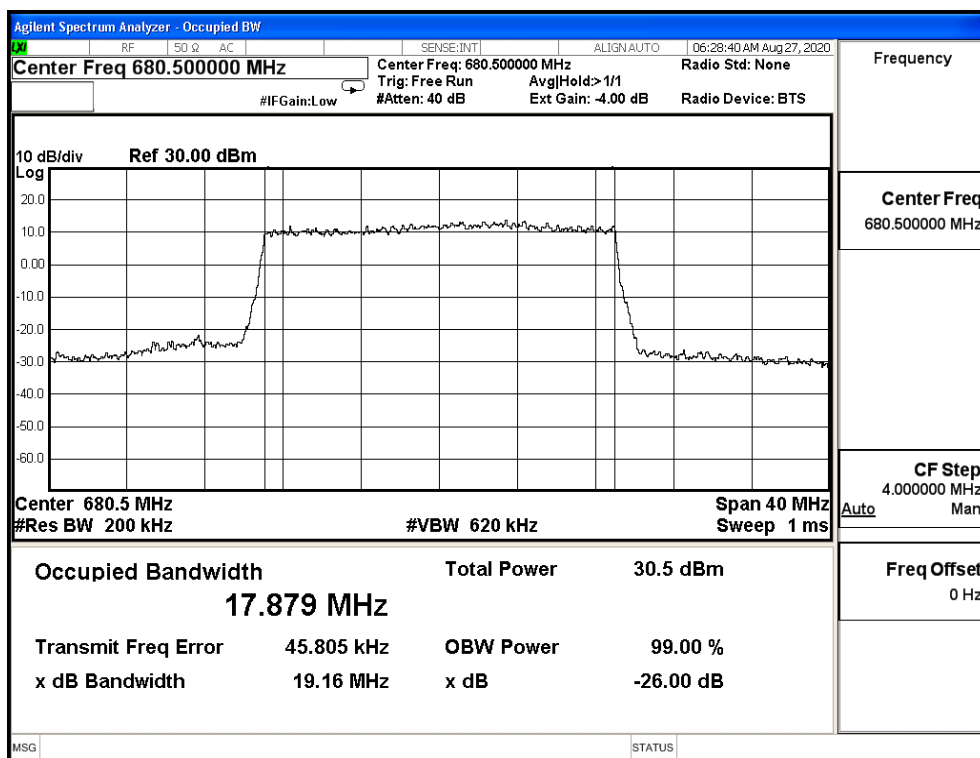
QPSK_CH133372_20M



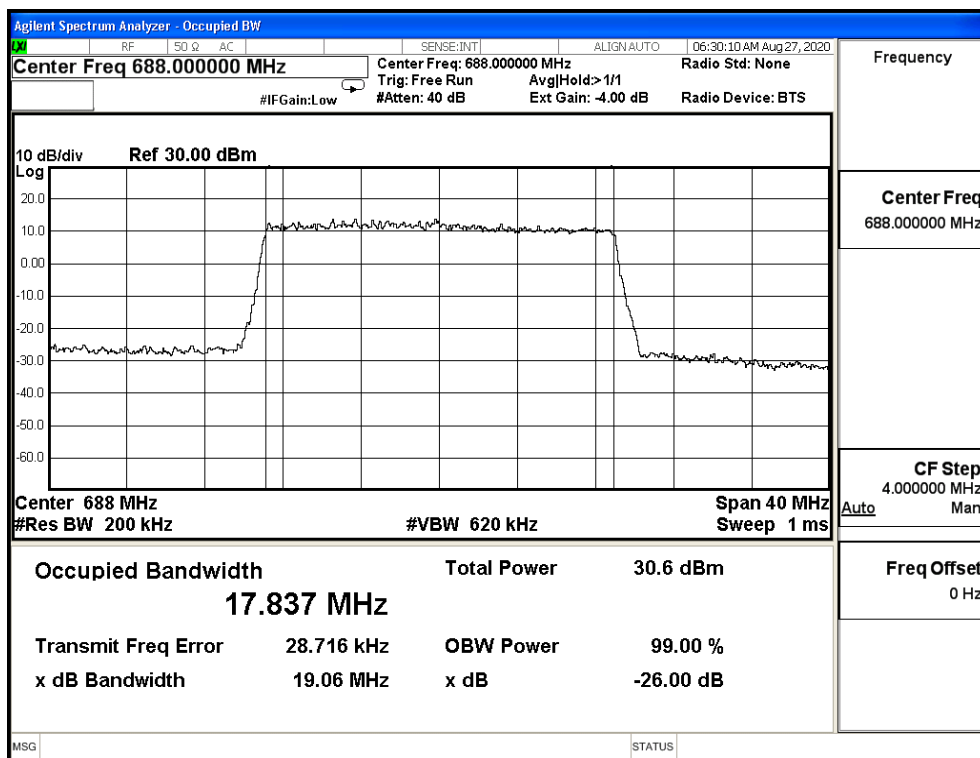
16QAM_CH133222_20M



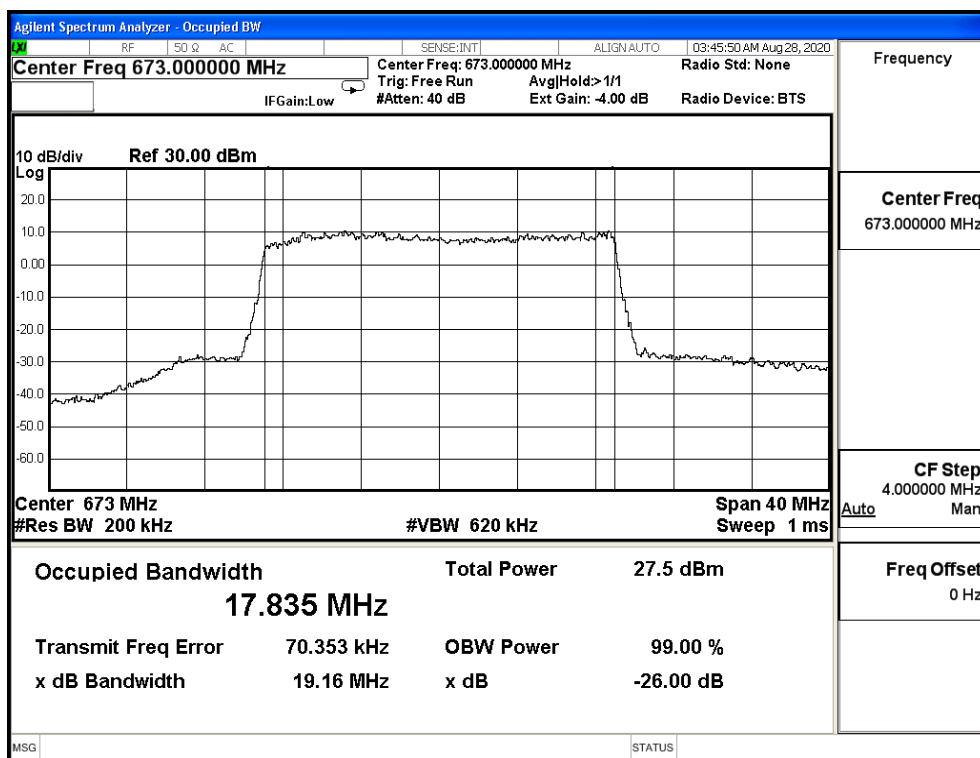
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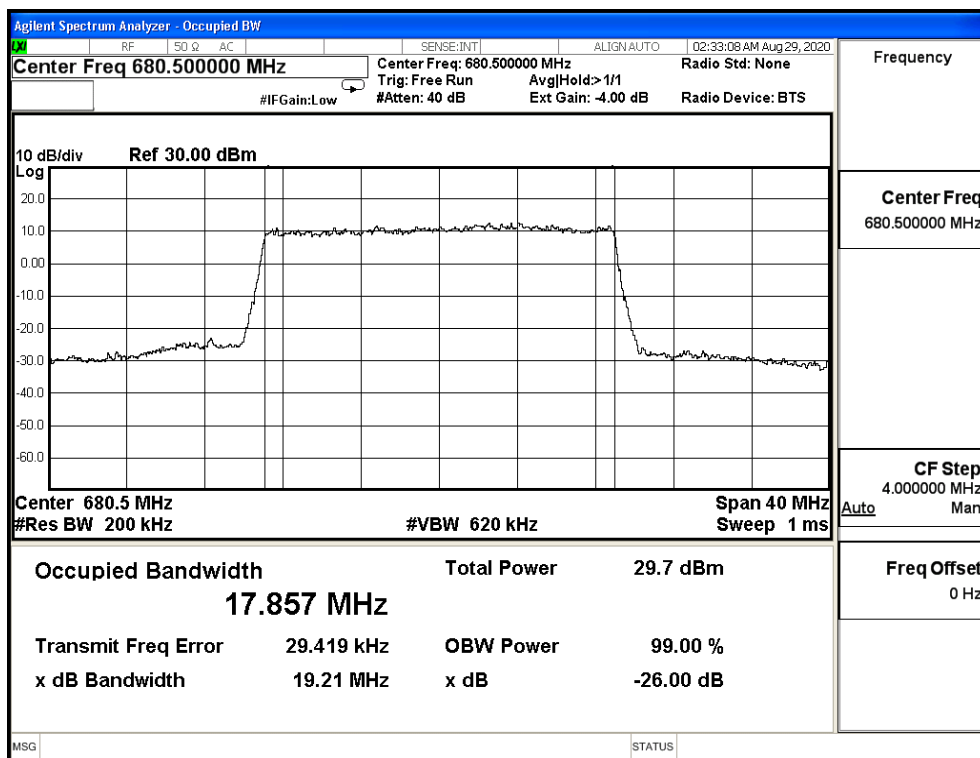
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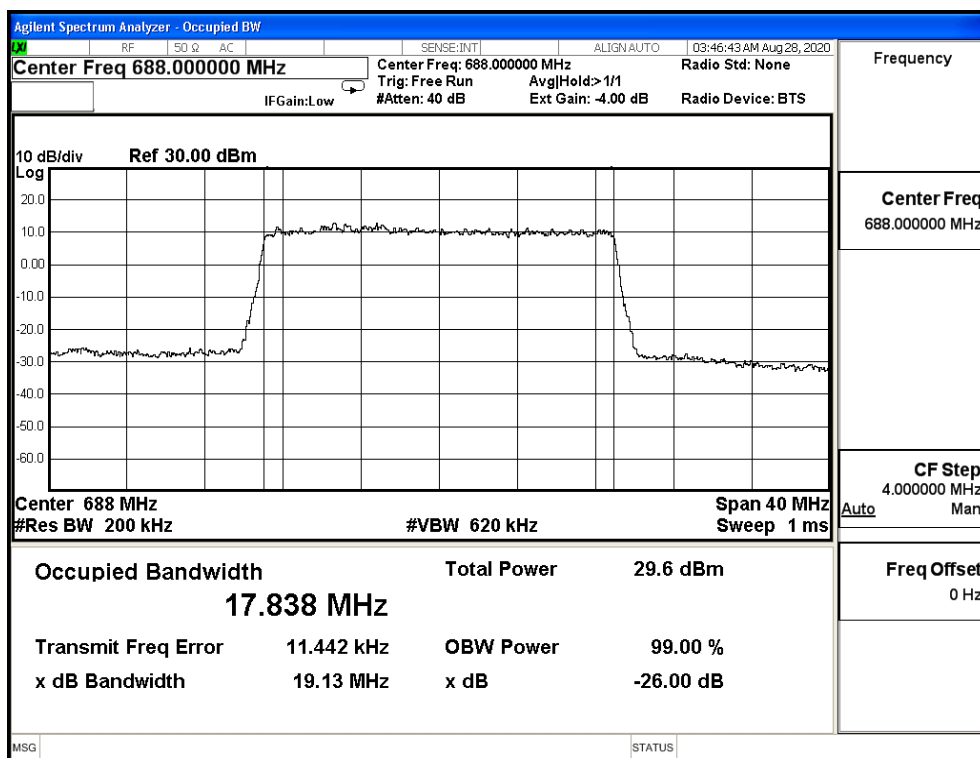
64QAM_CH133222_20M



64QAM_CH133297_20M



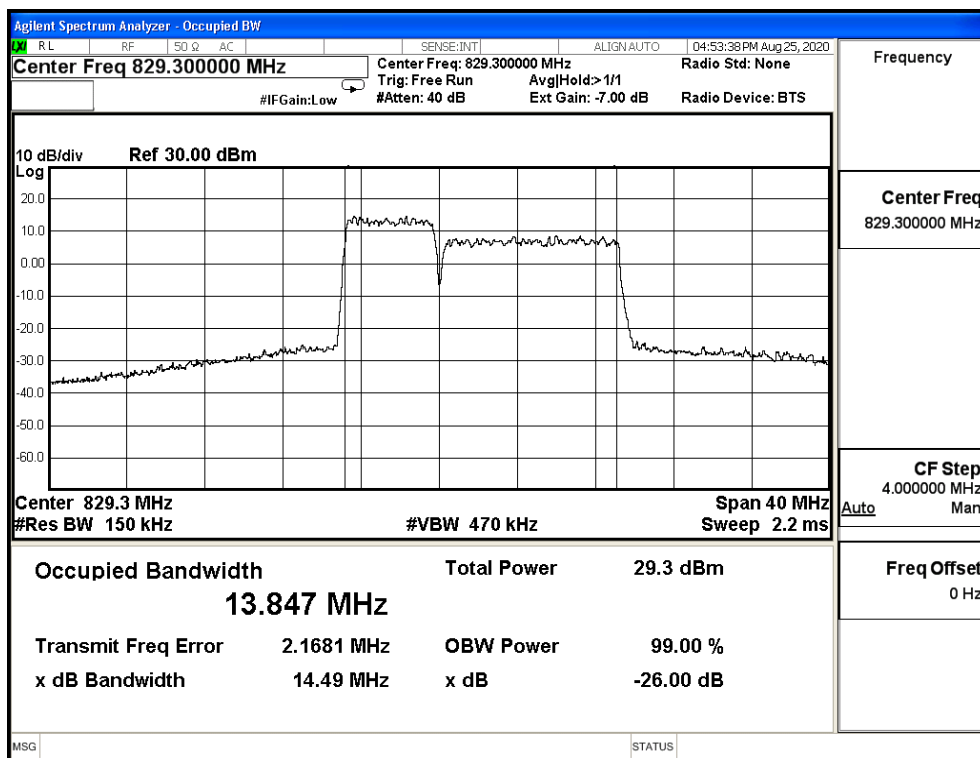
64QAM_CH133372_20M



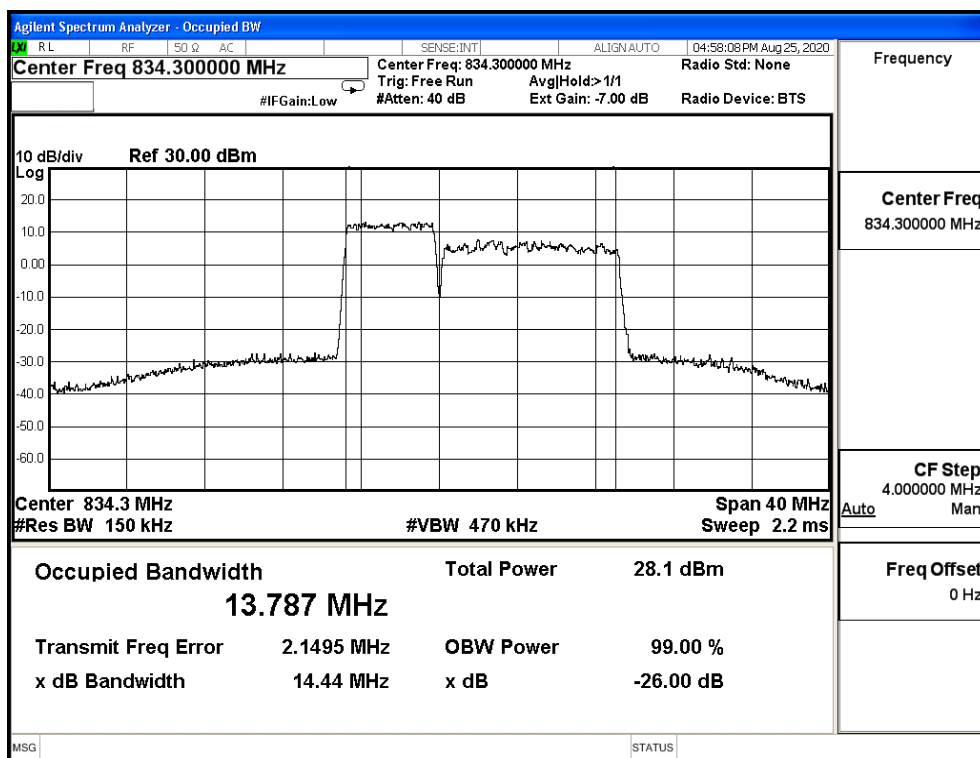
Product	Module		
Test Item	Occupied Bandwidth		
Test Mode	Mode 11: LTE CA Band 5B		
Date of Test	2020/09/02	Test Site	SR12-H
Temperature(°C)	24	Humidity (%RH)	60

Bandwidth (MHz)	Modulation	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
			26dB BW	99% BW	
5M+10M	QPSK	826.8+834	14.490	13.847	N/A
		831.8+839	14.440	13.787	N/A
		836.8+844	14.410	13.747	N/A
	16-QAM	826.8+834	14.470	13.818	N/A
		831.8+839	14.470	13.790	N/A
		836.8+844	14.480	13.768	N/A
	64-QAM	826.8+834	14.490	13.837	N/A
		831.8+839	14.400	13.783	N/A
		836.8+844	14.400	13.798	N/A
10M+5M	QPSK	829+836.2	14.640	13.852	N/A
		834+841.2	14.540	13.778	N/A
		839+846.2	14.550	13.824	N/A
	16-QAM	829+836.2	14.530	13.866	N/A
		834+841.2	14.580	13.839	N/A
		839+846.2	14.510	13.819	N/A
	64-QAM	829+836.2	14.600	13.850	N/A
		834+841.2	14.550	13.813	N/A
		839+846.2	14.500	13.837	N/A
10M+10M	QPSK	829+838.9	19.610	18.677	N/A
		831.6+841.5	19.550	18.620	N/A
		834.1+844	19.590	18.704	N/A
	16-QAM	829+838.9	19.540	18.675	N/A
		831.6+841.5	19.580	18.661	N/A
		834.1+844	19.550	18.629	N/A
	64-QAM	829+838.9	19.610	18.659	N/A
		831.6+841.5	19.550	18.693	N/A
		834.1+844	19.600	18.648	N/A

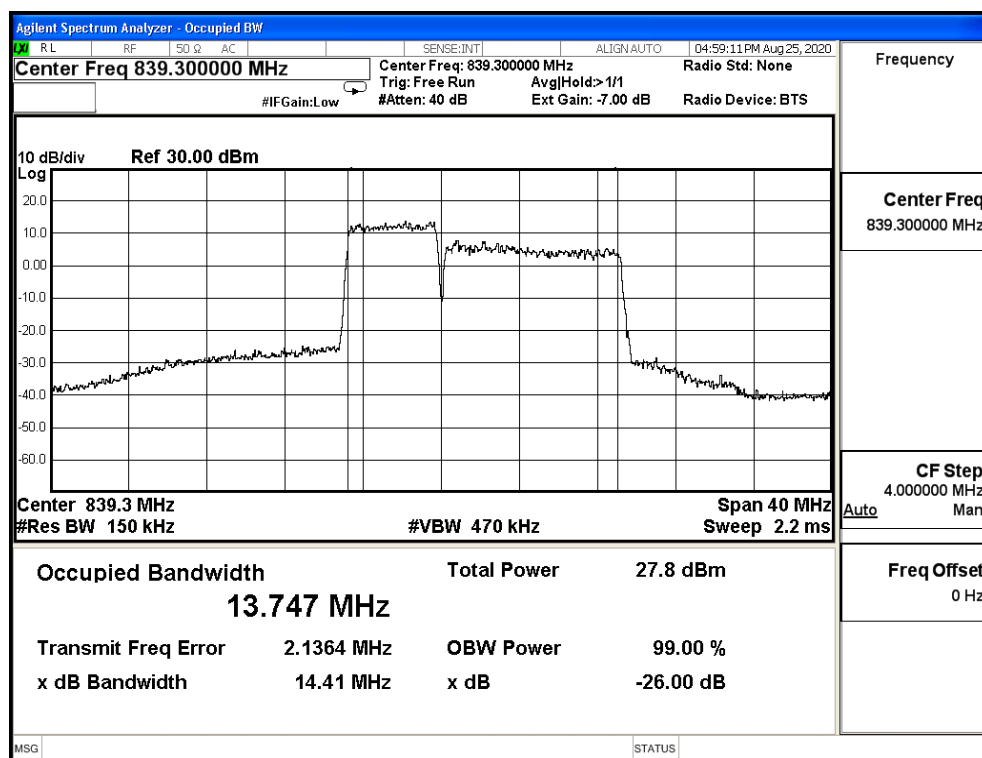
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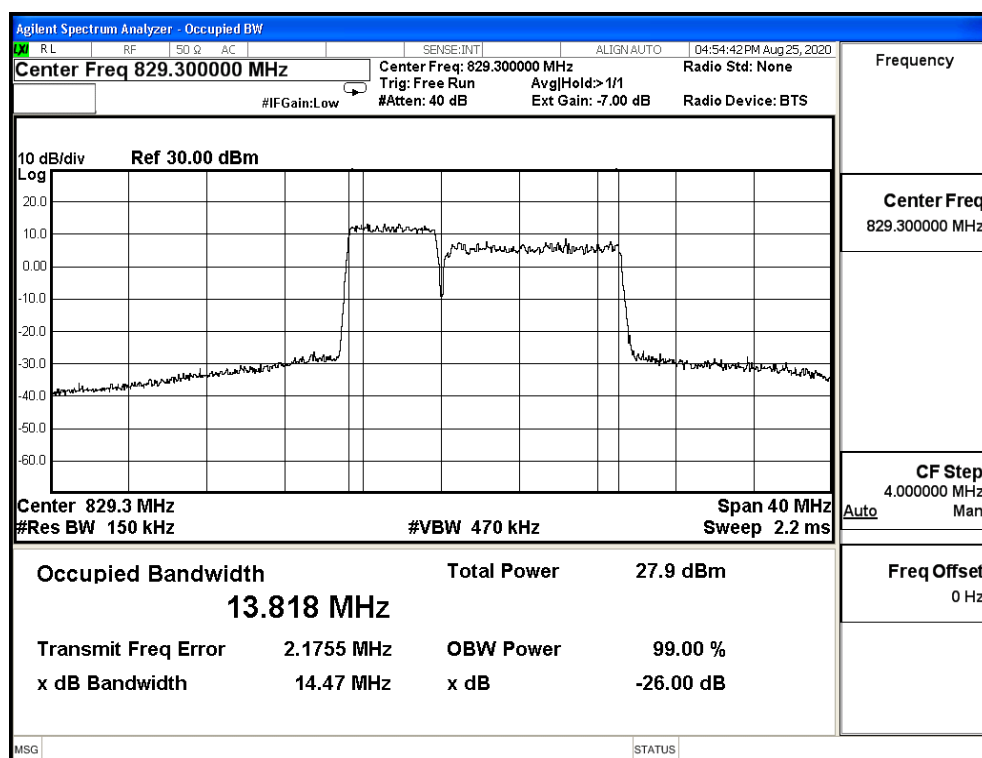
CA_5B_CH20478+CH20550_5M+10M_QPSK_25RB0+50RB0



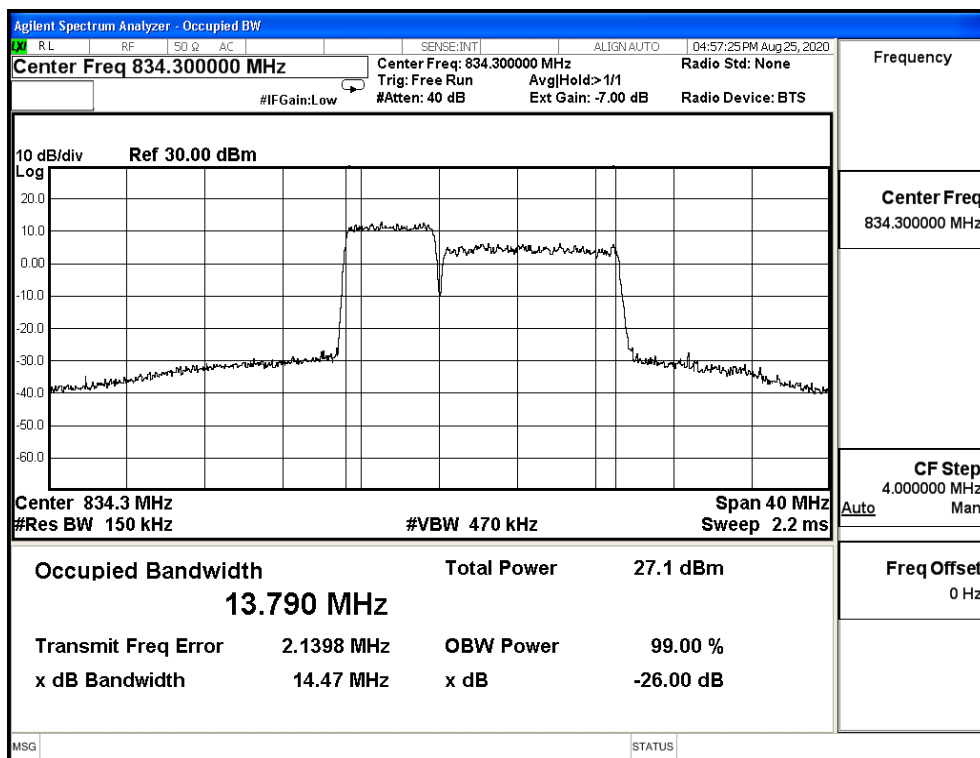
CA 5B CH20528+CH20600 5M+10M QPSK 25RB0+50RB0



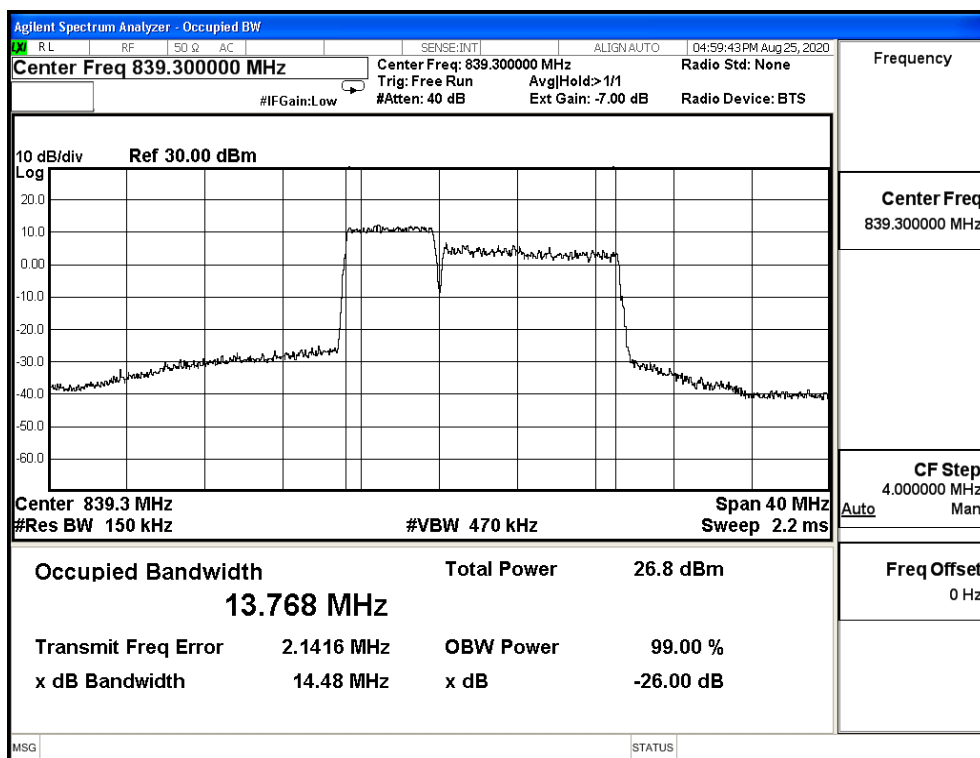
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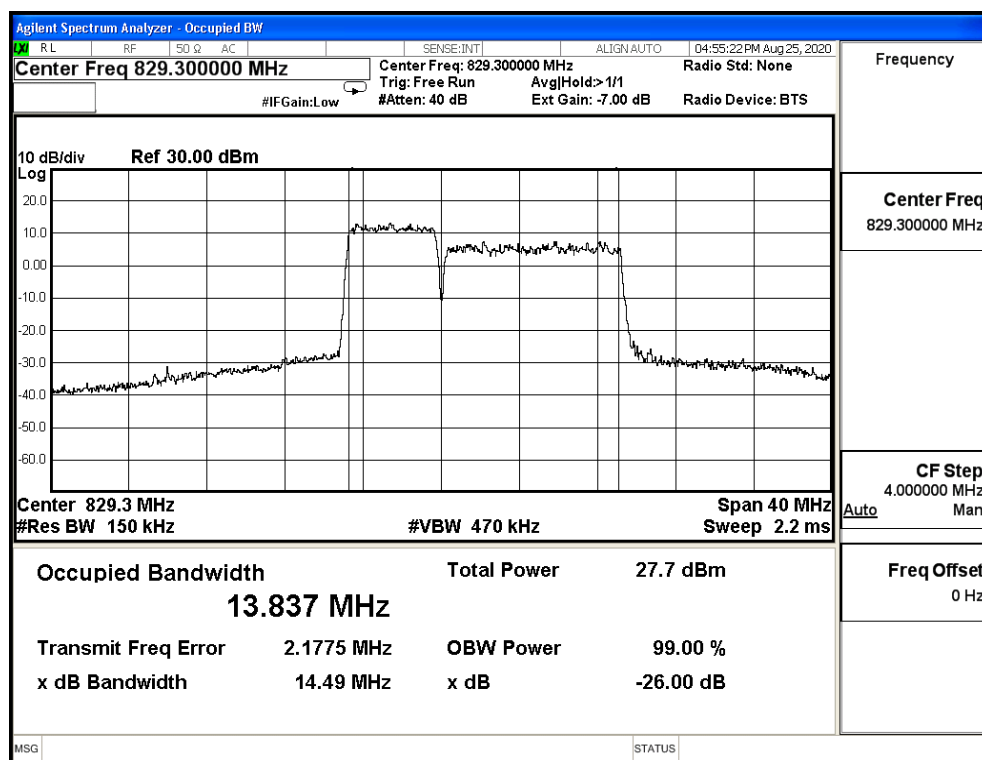
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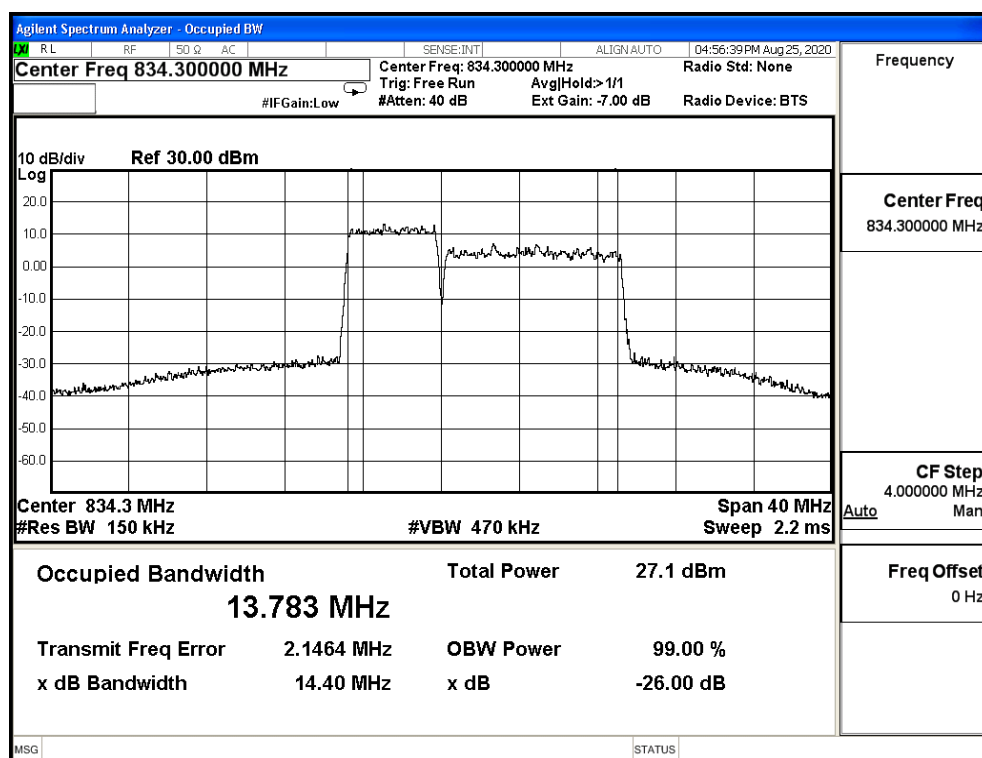
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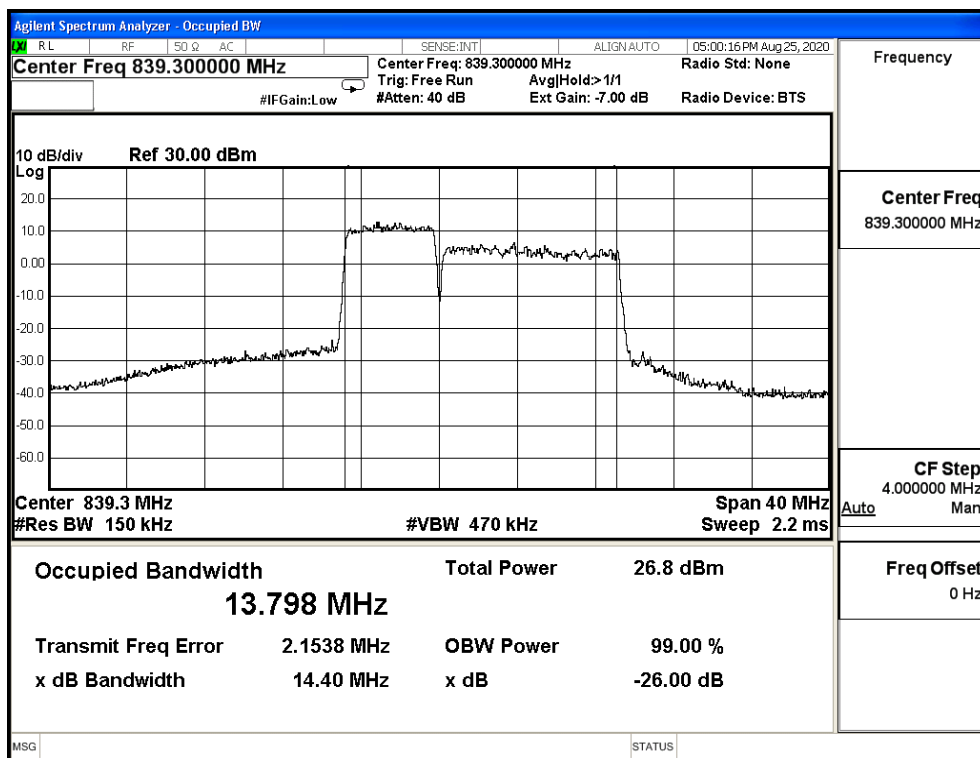
CA 5B CH20428+CH20500 5M+10M 64-QAM 25RB0+50RB0



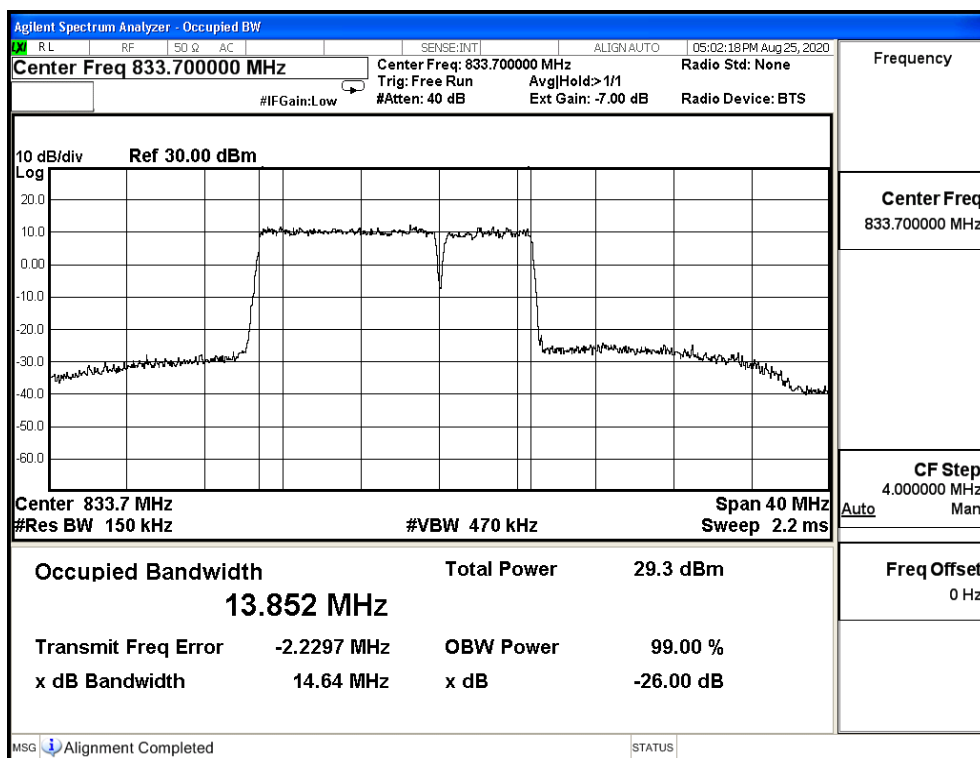
CA 5B CH20478+CH20550 5M+10M 64-QAM 25RB0+50RB0



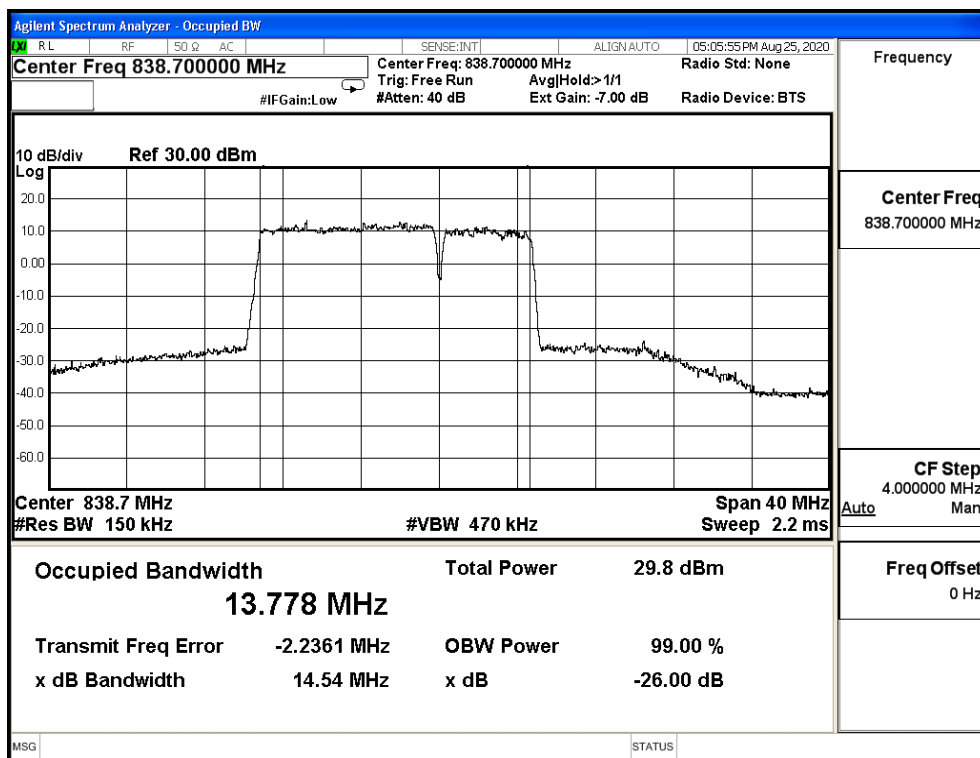
CA_5B_CH20528+CH20600_5M+10M_64-QAM_25RB0+50RB0



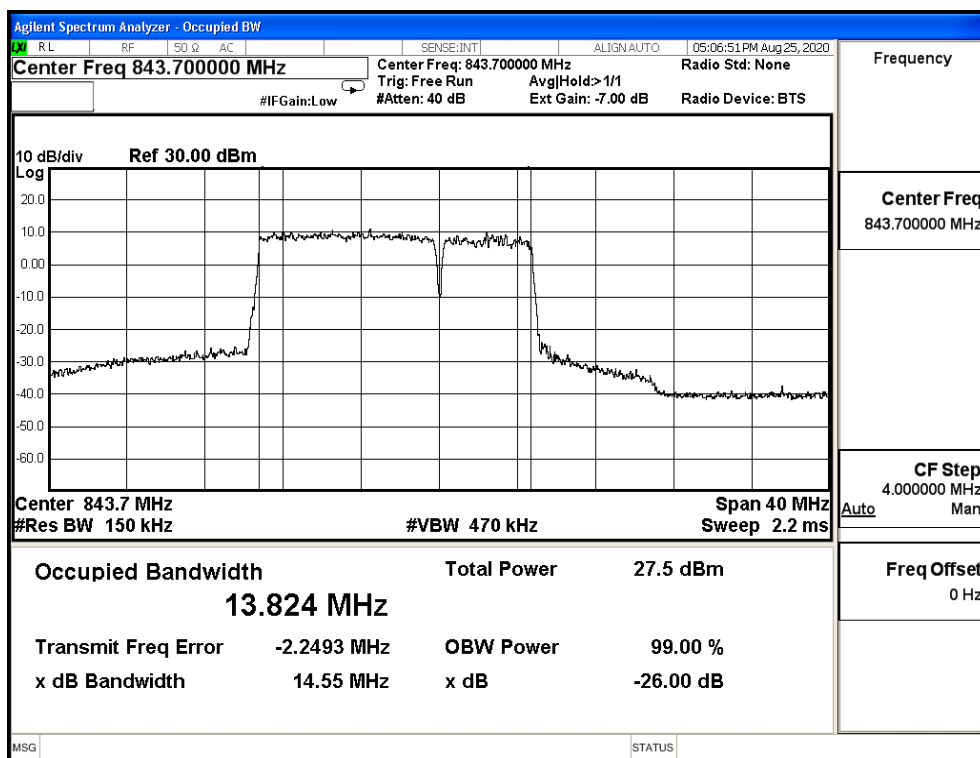
CA_5B_CH20450+CH20522_10M+5M_QPSK_50RB0+25RB0



CA_5B_CH20500+CH20572_10M+5M_QPSK_50RB0+25RB0



CA_5B_CH20550+CH20622_10M+5M_QPSK_50RB0+25RB0



Agilent Spectrum Analyzer - Occupied BW

☒ R L RF 50 Ω AC SENSE:INT ALIGN: AUTO 05:02:52 PM Aug 25, 2020

Center Freq 833.700000 MHz Center Freq: 833.700000 MHz Radio Std: None Frequency

Trig: Free Run Avg[Hold]> 1/1 #IFGain: Low #Atten: 40 dB Ext Gain: -7.00 dB Radio Device: BTS

10 dB/div Ref 30.00 dBm

Log

Center 833.7 MHz Span 40 MHz
 #Res BW 150 kHz #VBW 470 kHz Sweep 2.2 ms

Occupied Bandwidth	Total Power	28.5 dBm
13.866 MHz		
Transmit Freq Error	OBW Power	99.00 %
-2.2161 MHz		
x dB Bandwidth	x dB	-26.00 dB
14.53 MHz		

CF Step 4.000000 MHz Auto Man
 Freq Offset 0 Hz

MSG STATUS

Agilent Spectrum Analyzer - Occupied BW

☒ R L RF SO AC SENSE:INT ALIGN: AUTO 05:05:16 PM Aug 25, 2020

Center Freq 838.700000 MHz Center Freq: 838.700000 MHz Radio Std: None
 Trig: Free Run Avg/Hold: > 1/1 #IF Gain: Low #Atten: 40 dB Ext Gain: -7.00 dB Radio Device: BTS

Frequency

Center Freq 838.700000 MHz

CF Step 4.000000 MHz

Auto Man

10 dB/div Ref 30.00 dBm
 Log

Center 838.7 MHz Span 40 MHz
 #Res BW 150 kHz #VBW 470 kHz Sweep 2.2 ms

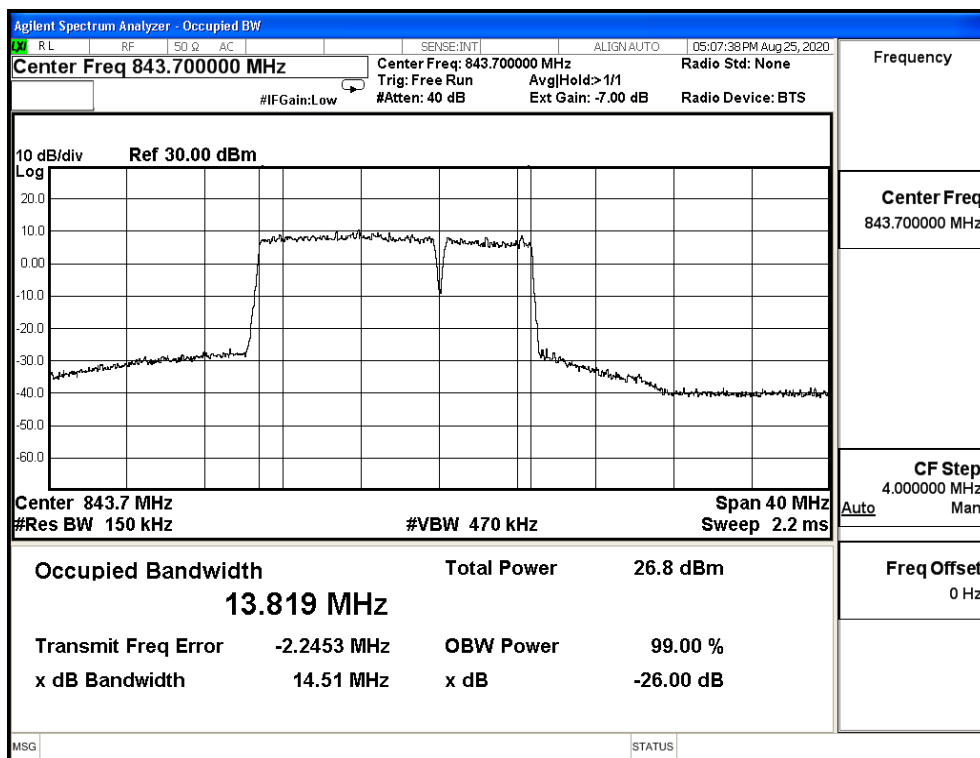
Occupied Bandwidth Total Power 28.9 dBm
 13.839 MHz

Transmit Freq Error -2.2186 MHz OBW Power 99.00 %
 x dB Bandwidth 14.58 MHz x dB -26.00 dB

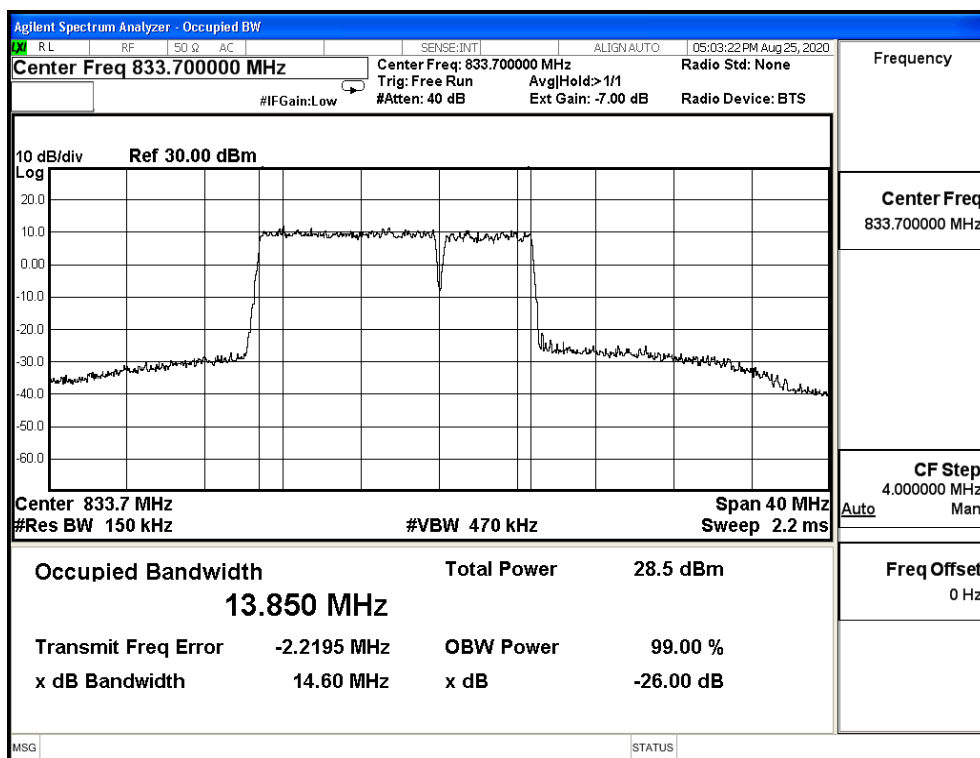
Freq Offset 0 Hz

MSG STATUS

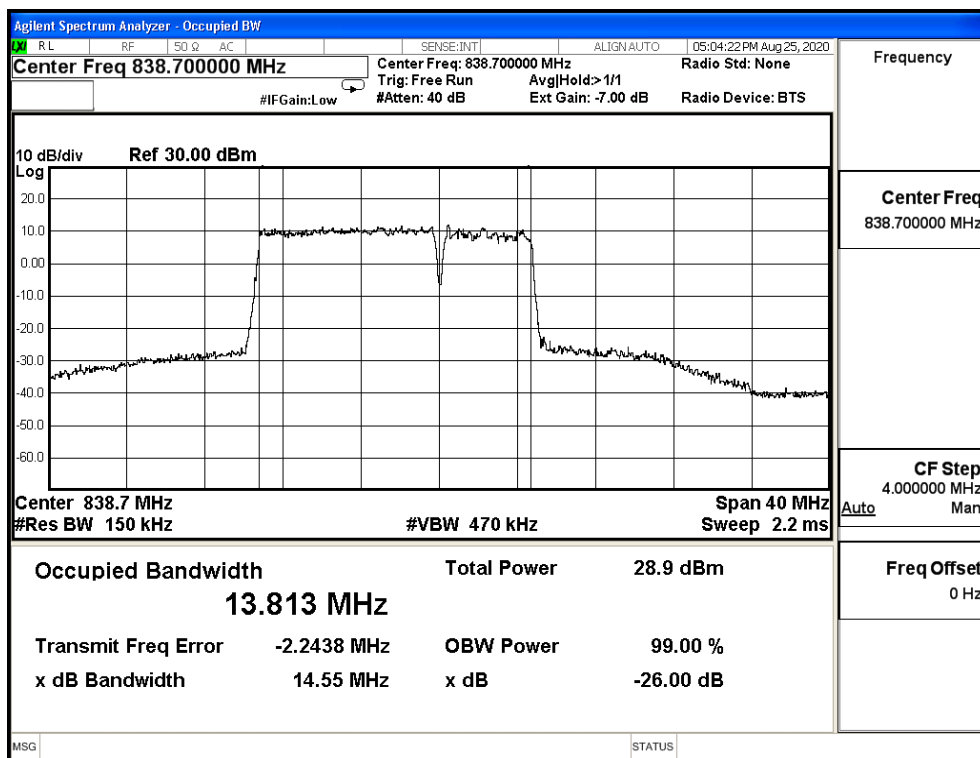
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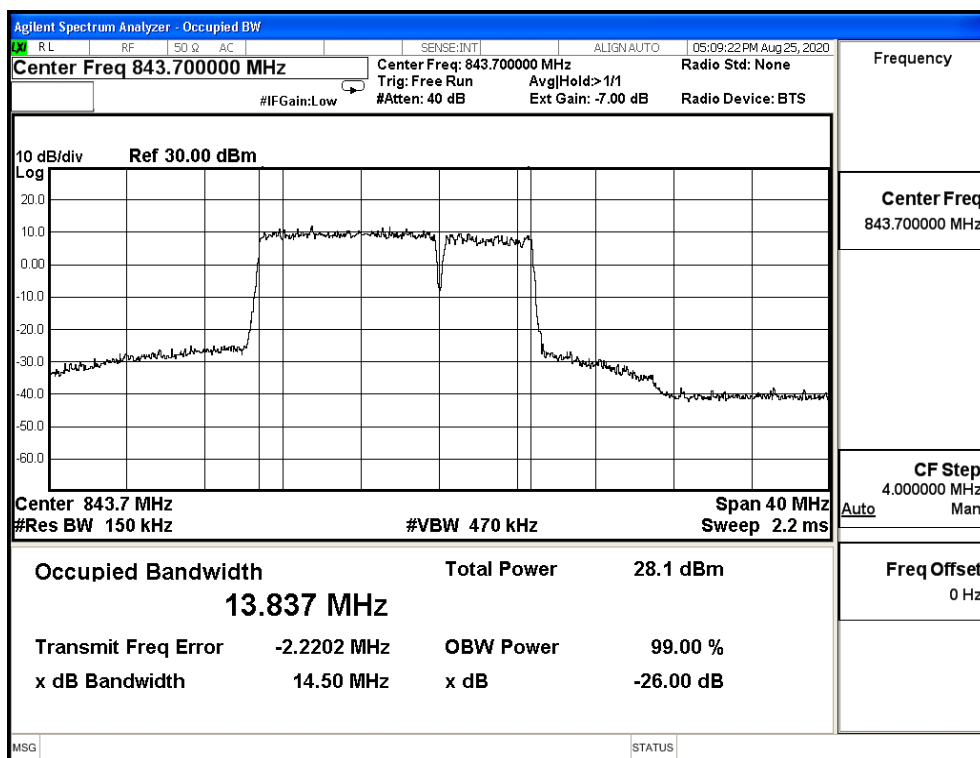
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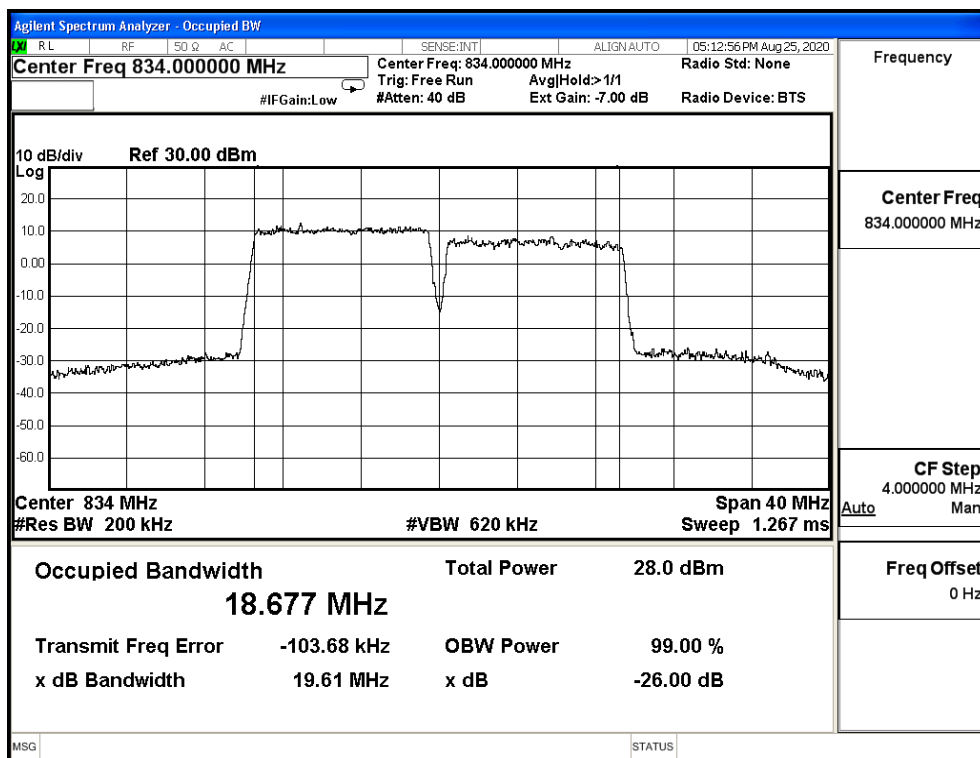
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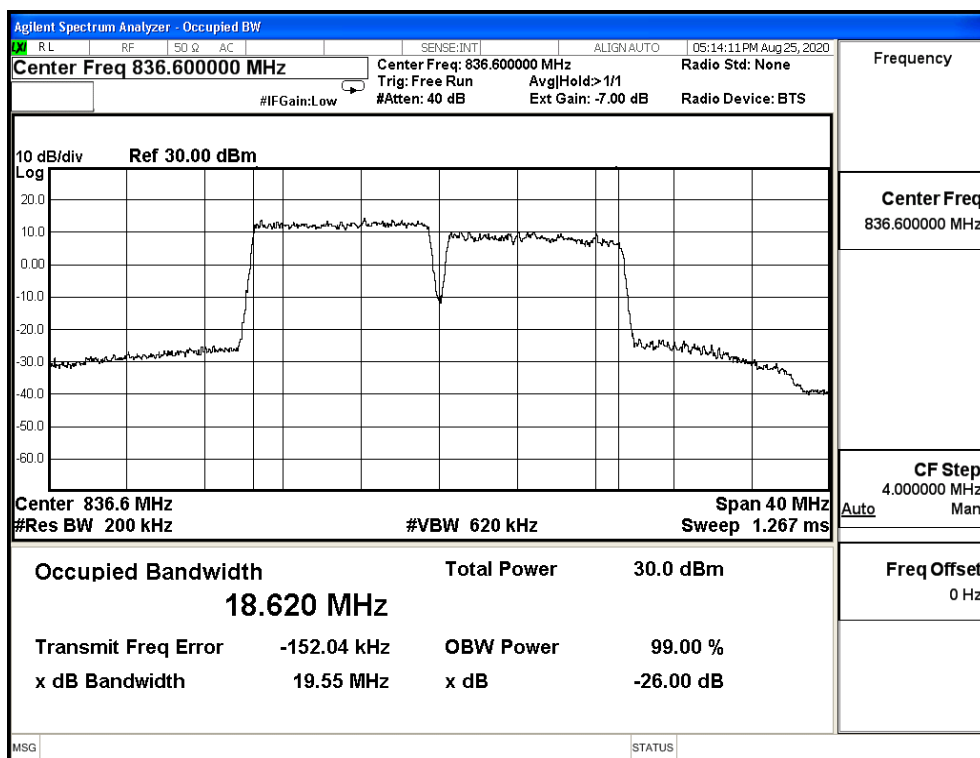
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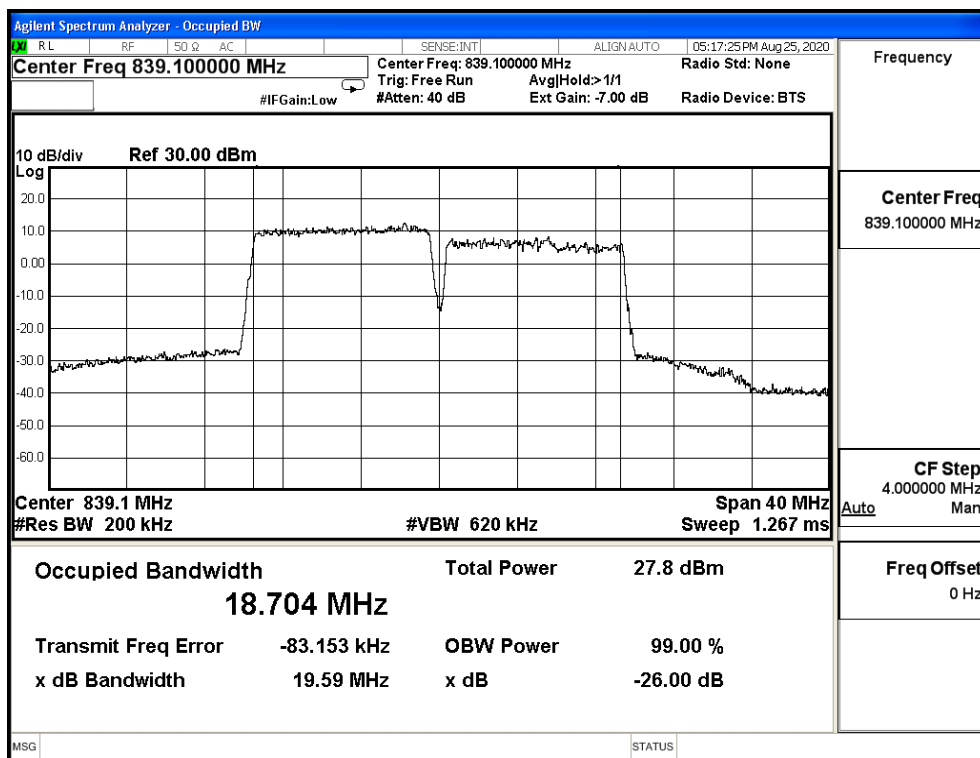
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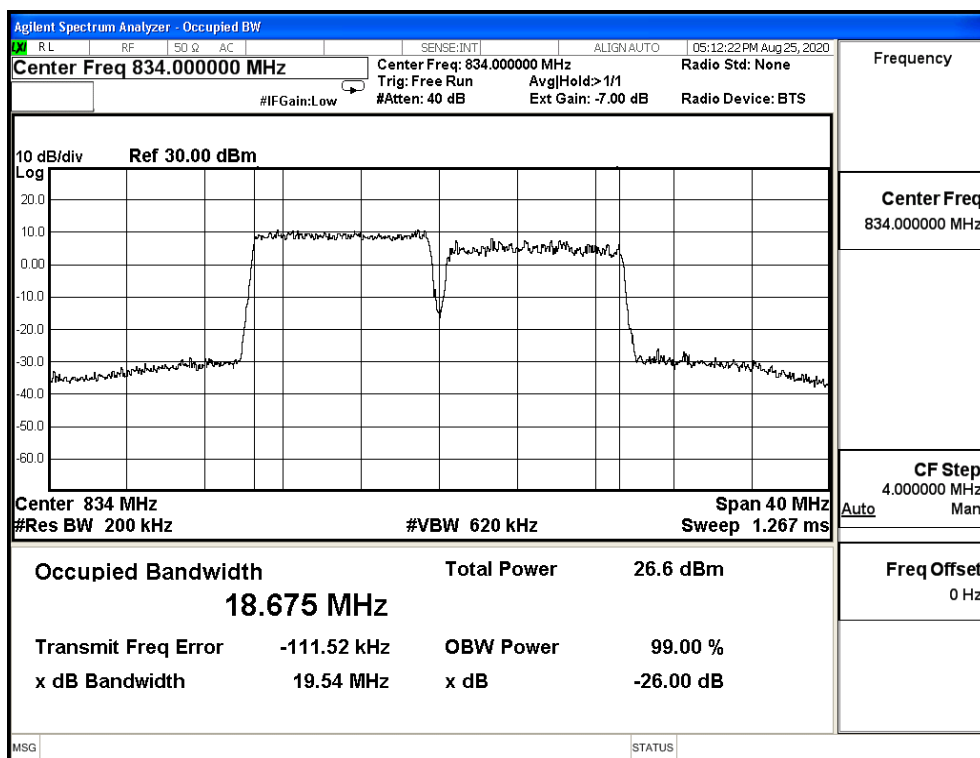
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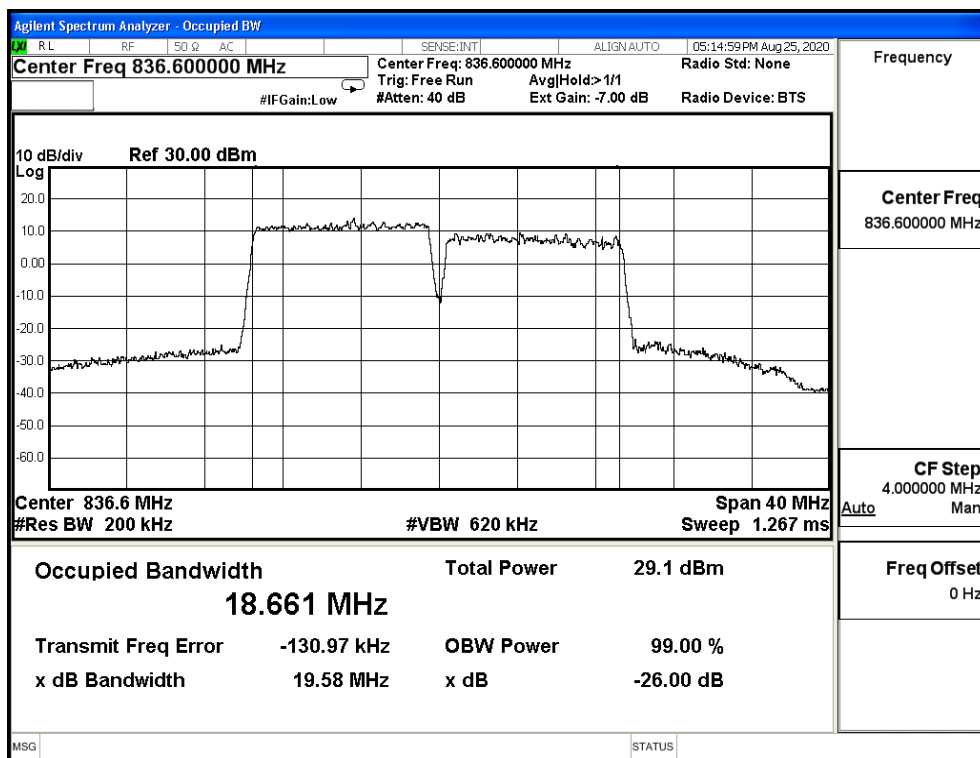
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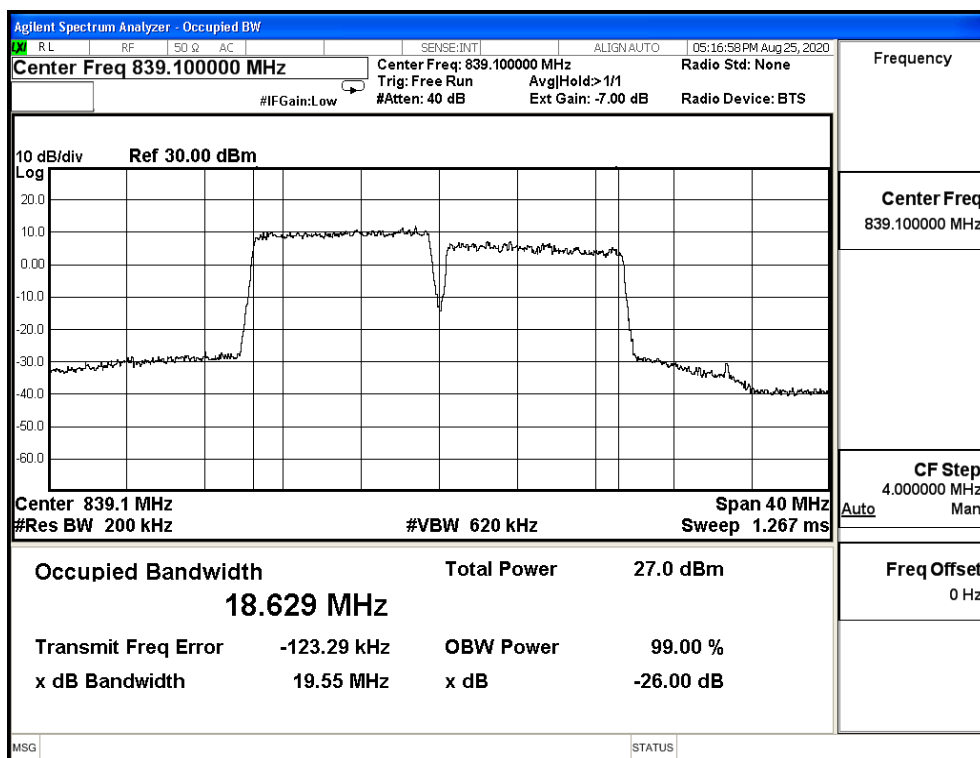
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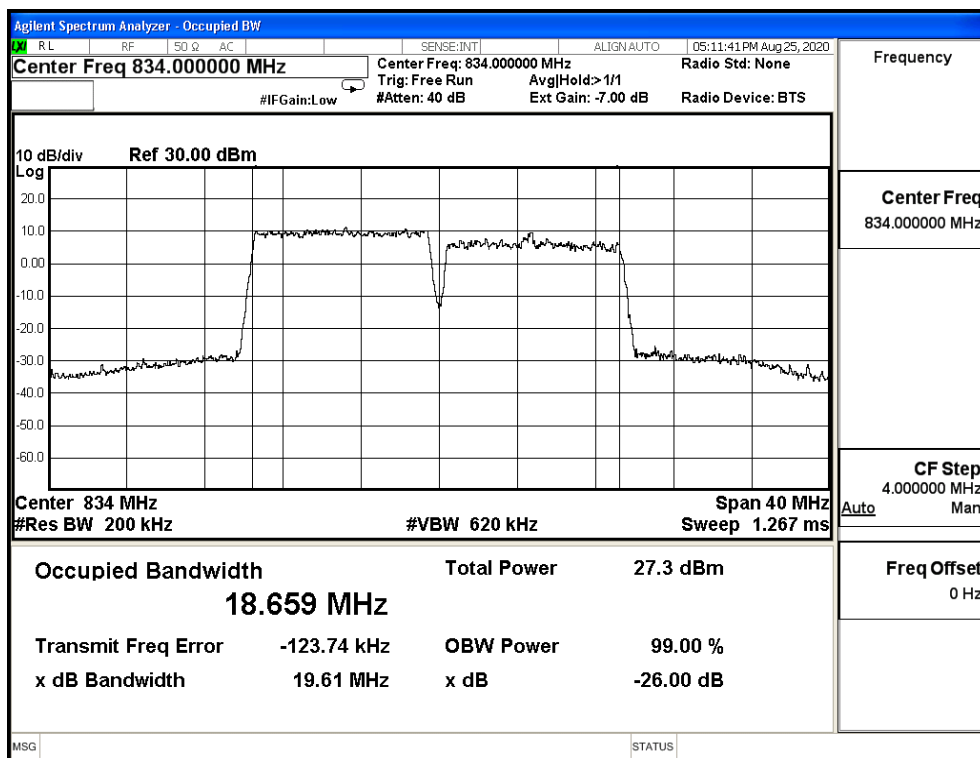
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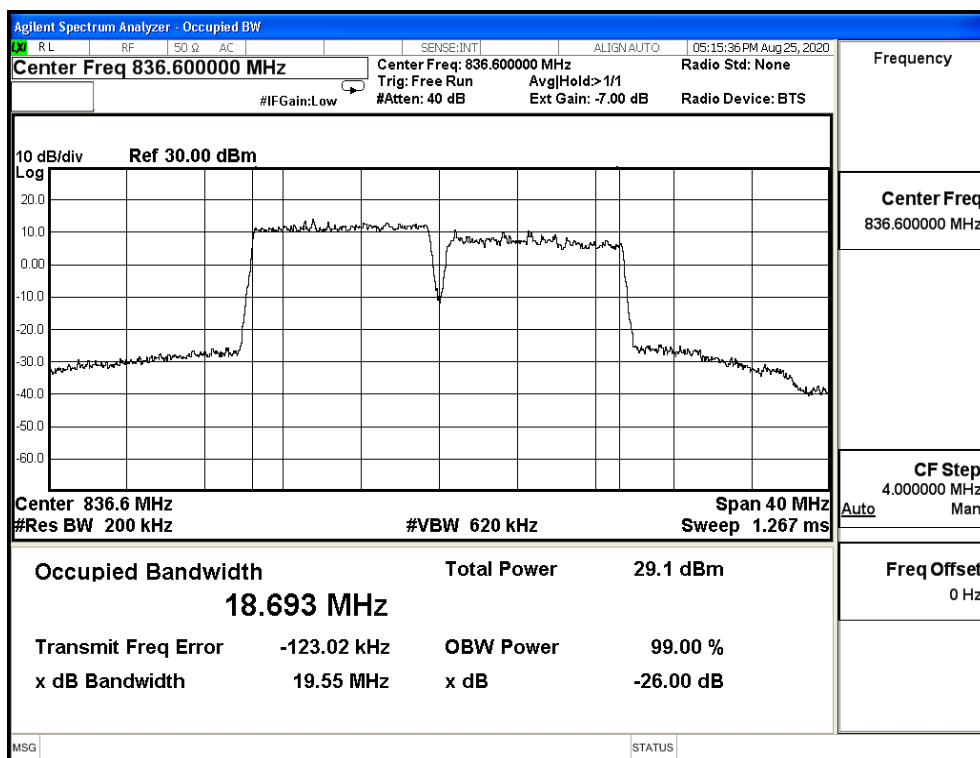
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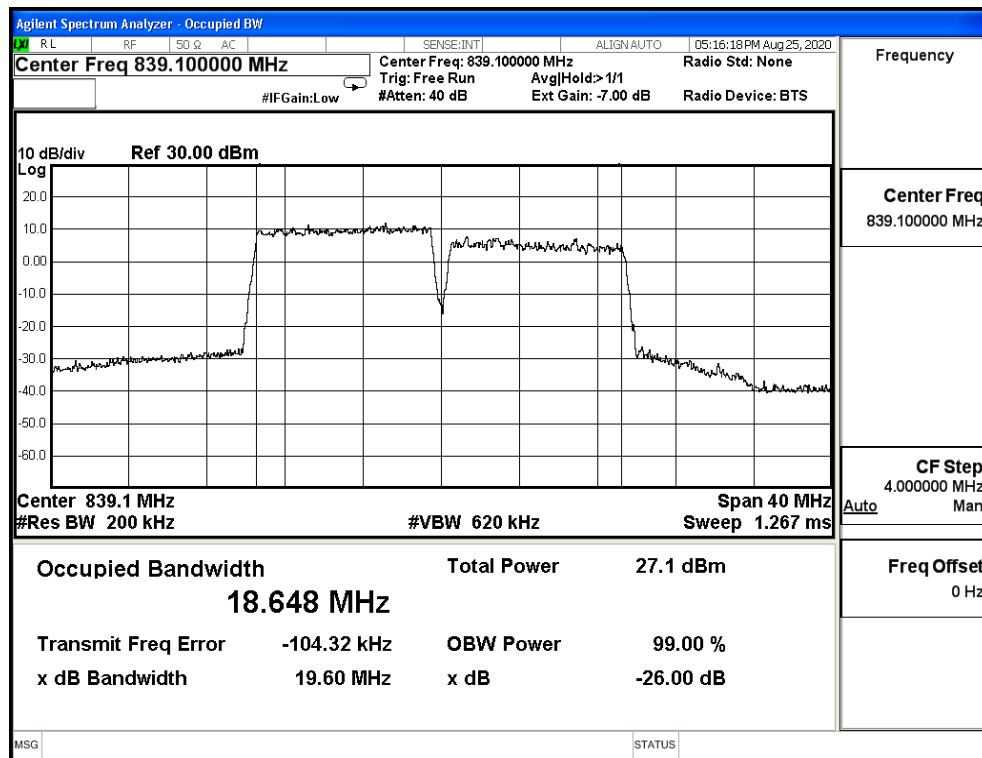
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CA_5B_CH20501+CH20600_10M+10M_64-QAM_50RB0+50RB0

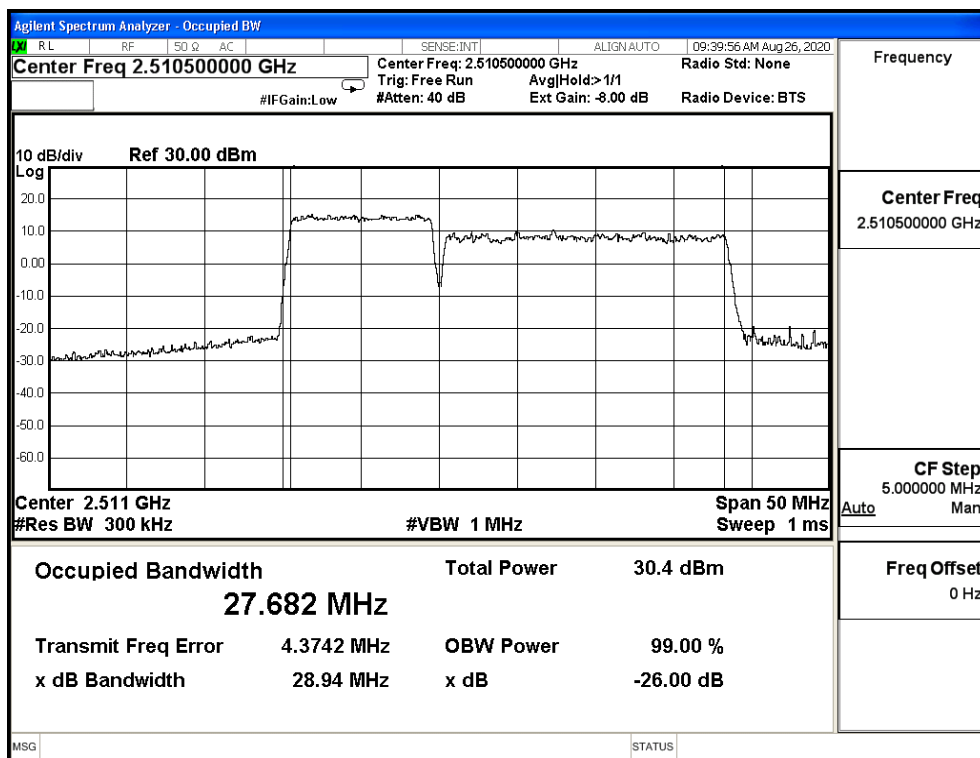


Product	Module		
Test Item	Occupied Bandwidth		
Test Mode	Mode 12: LTE CA Band 7C		
Date of Test	2020/09/02	Test Site	SR12-H
Temperature(°C)	24	Humidity (%RH)	60

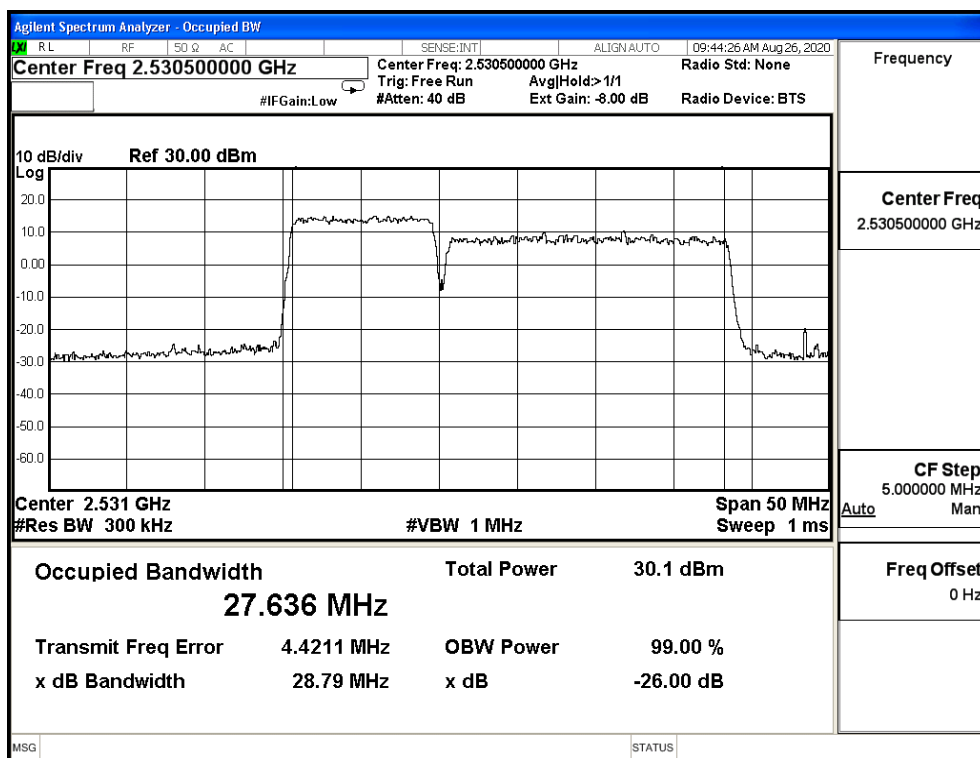
Bandwidth (MHz)	Modulation	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
			26dB BW	99% BW	
10M+20M	QPSK	2505.5+2519.9	28.940	27.682	N/A
		2525.6+2540	28.790	27.636	N/A
		2545.6+2560	29.050	27.667	N/A
	16-QAM	2505.5+2519.9	28.810	27.657	N/A
		2525.6+2540	28.800	27.584	N/A
		2545.6+2560	31.830	27.611	N/A
	64-QAM	2505.5+2519.9	28.830	27.591	N/A
		2525.6+2540	28.840	27.654	N/A
		2545.6+2560	28.770	27.541	N/A
15M+10M	QPSK	2507.5+2519.5	24.360	23.123	N/A
		2530.1+2542.1	24.360	23.008	N/A
		2552.7+2564.7	24.430	23.079	N/A
	16-QAM	2507.5+2519.5	24.350	23.098	N/A
		2530.1+2542.1	24.420	23.050	N/A
		2552.7+2564.7	24.390	23.078	N/A
	64-QAM	2507.5+2519.5	24.360	23.054	N/A
		2530.1+2542.1	24.330	23.039	N/A
		2552.7+2564.7	24.340	23.099	N/A
15M+15M	QPSK	2507.5+2522.5	29.760	28.280	N/A
		2527.5+2542.5	29.830	28.198	N/A
		2547.5+2562.5	29.760	28.314	N/A
	16-QAM	2507.5+2522.5	29.680	28.276	N/A
		2527.5+2542.5	29.670	28.287	N/A
		2547.5+2562.5	29.530	28.213	N/A
	64-QAM	2507.5+2522.5	29.550	28.248	N/A
		2527.5+2542.5	29.640	28.161	N/A
		2547.5+2562.5	29.680	28.230	N/A

Bandwidth (MHz)	Modulation	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
			26dB BW	99% BW	
15M+20M	QPSK	2507.8+2524.9	34.200	32.606	N/A
		2525.3+2542.4	34.220	32.558	N/A
		2542.9+2560	34.060	32.497	N/A
	16-QAM	2507.8+2524.9	34.100	32.532	N/A
		2525.3+2542.4	34.080	32.531	N/A
		2542.9+2560	33.950	32.525	N/A
	64-QAM	2507.8+2524.9	34.000	32.490	N/A
		2525.3+2542.4	34.040	32.448	N/A
		2542.9+2560	34.090	32.465	N/A
20M+10M	QPSK	2510+2524.4	30.890	27.731	N/A
		2530.1+2544.5	37.100	27.681	N/A
		2550.1+2564.5	29.260	27.747	N/A
	16-QAM	2510+2524.4	30.710	27.692	N/A
		2530.1+2544.5	36.270	27.651	N/A
		2550.1+2564.5	29.160	27.704	N/A
	64-QAM	2510+2524.4	30.680	27.747	N/A
		2530.1+2544.5	29.170	27.701	N/A
		2550.1+2564.5	29.130	27.721	N/A
20M+15M	QPSK	2510+2527.1	34.180	32.599	N/A
		2527.6+2544.7	34.140	32.474	N/A
		2545.1+2562.2	34.340	32.597	N/A
	16-QAM	2510+2527.1	34.420	32.613	N/A
		2527.6+2544.7	34.140	32.501	N/A
		2545.1+2562.2	34.210	32.642	N/A
	64-QAM	2510+2527.1	34.230	32.641	N/A
		2527.6+2544.7	34.200	32.577	N/A
		2545.1+2562.2	34.170	32.503	N/A
20M+20M	QPSK	2510+2529.8	39.330	37.530	N/A
		2525.1+2544.9	39.230	37.412	N/A
		2540.2+2560	39.340	37.405	N/A
	16-QAM	2510+2529.8	39.410	37.497	N/A
		2525.1+2544.9	39.250	37.415	N/A
		2540.2+2560	39.230	37.402	N/A
	64-QAM	2510+2529.8	39.290	37.530	N/A
		2525.1+2544.9	39.370	37.468	N/A
		2540.2+2560	39.170	37.386	N/A

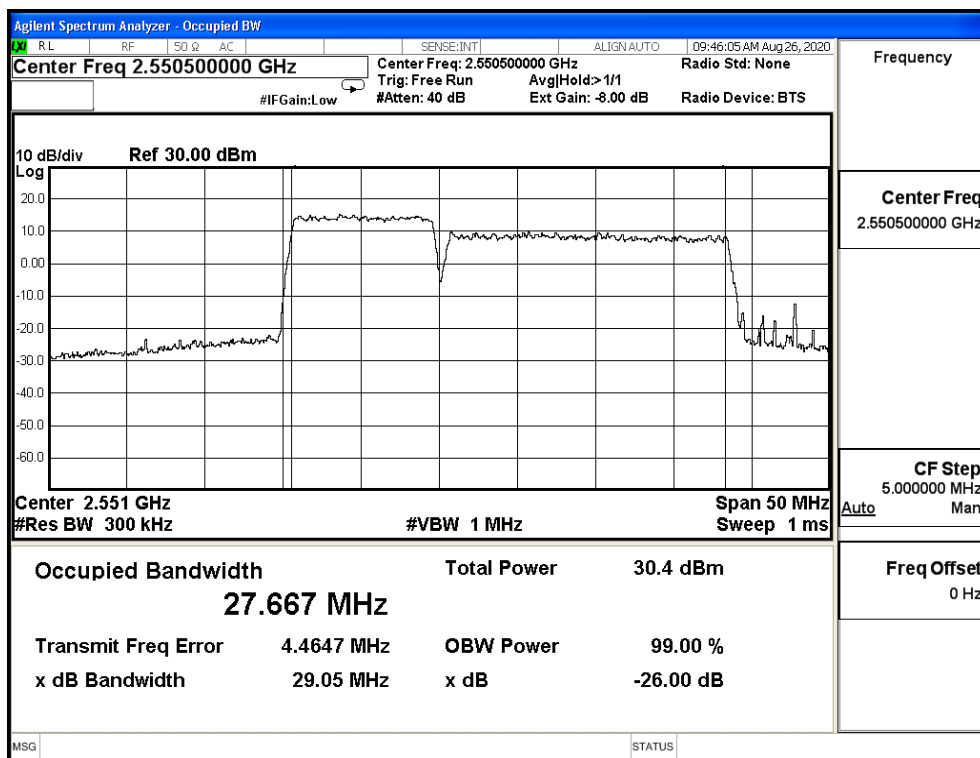
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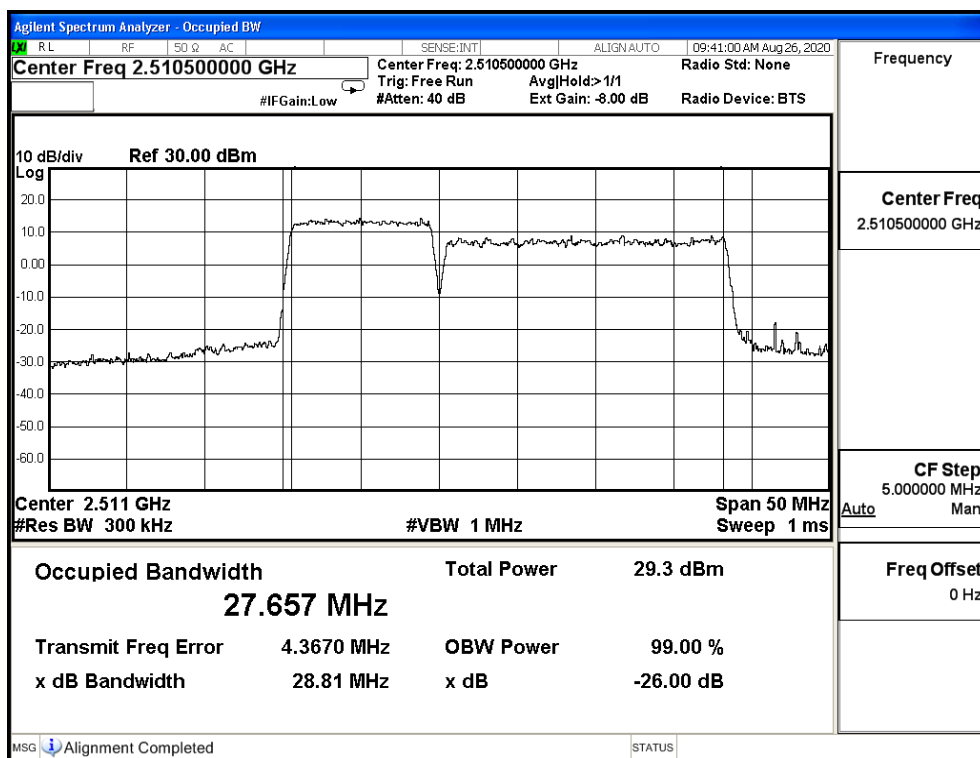
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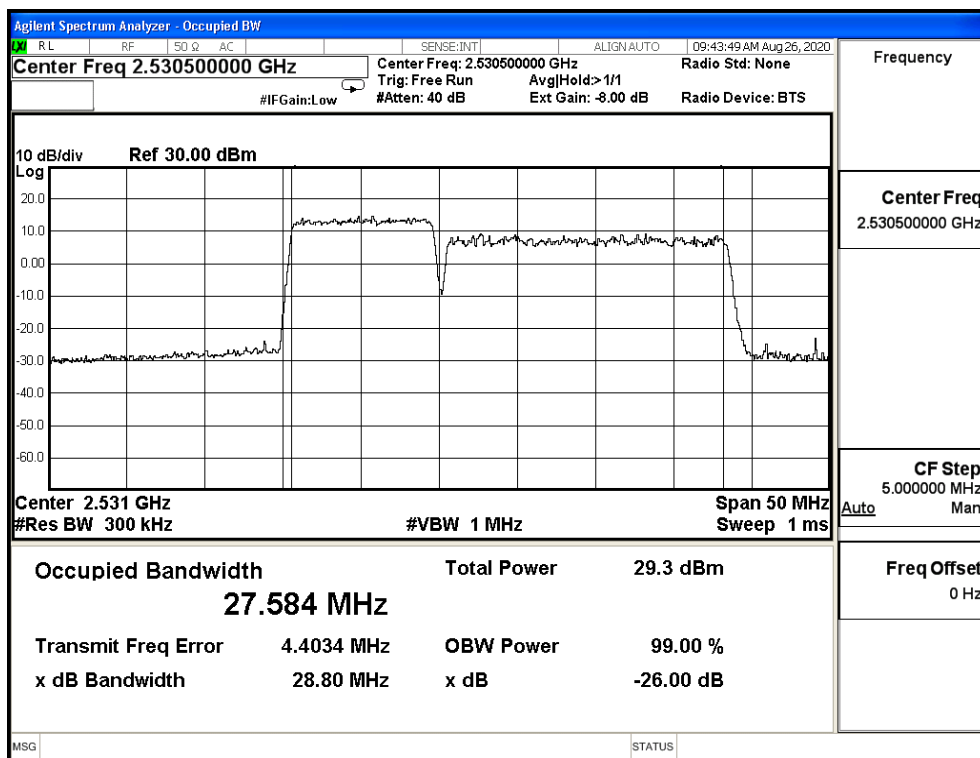
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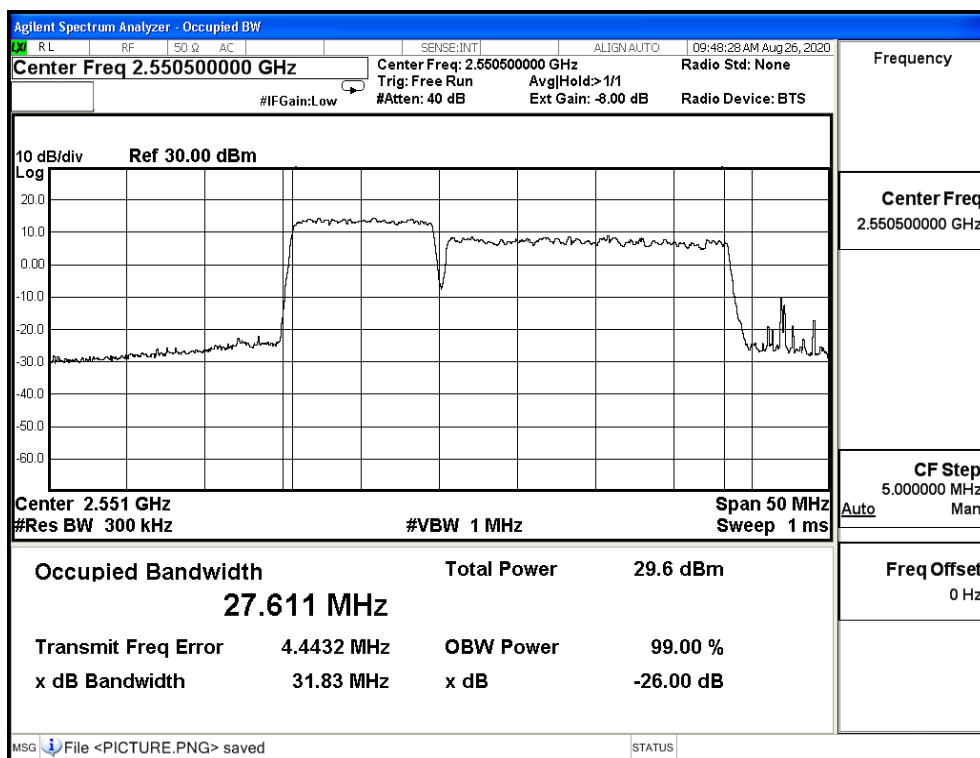
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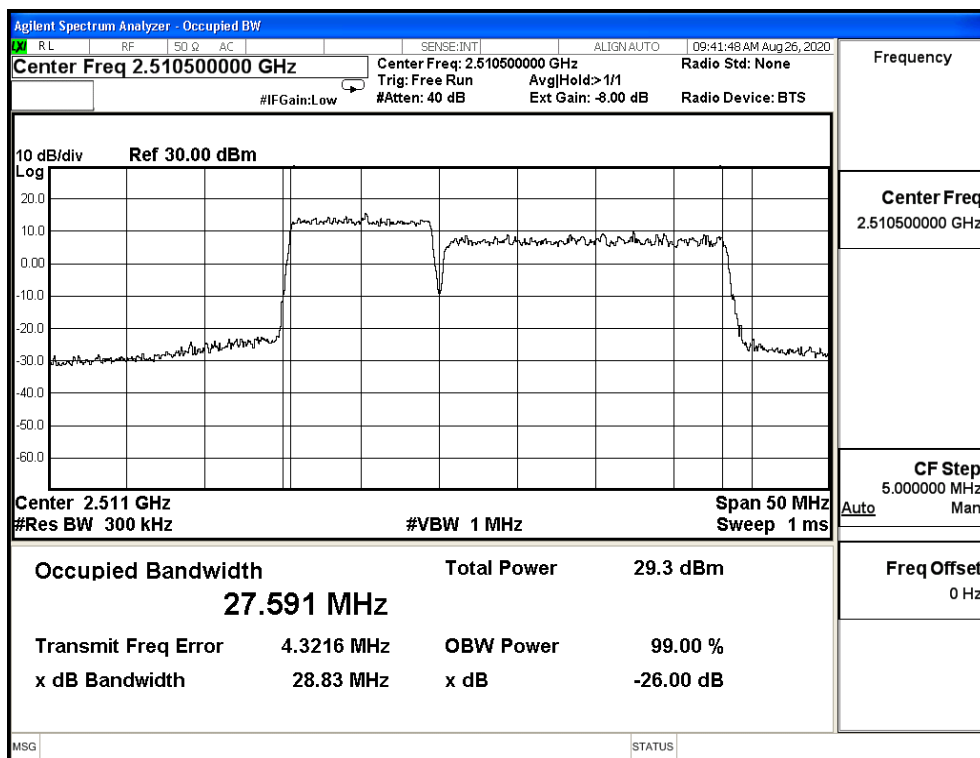
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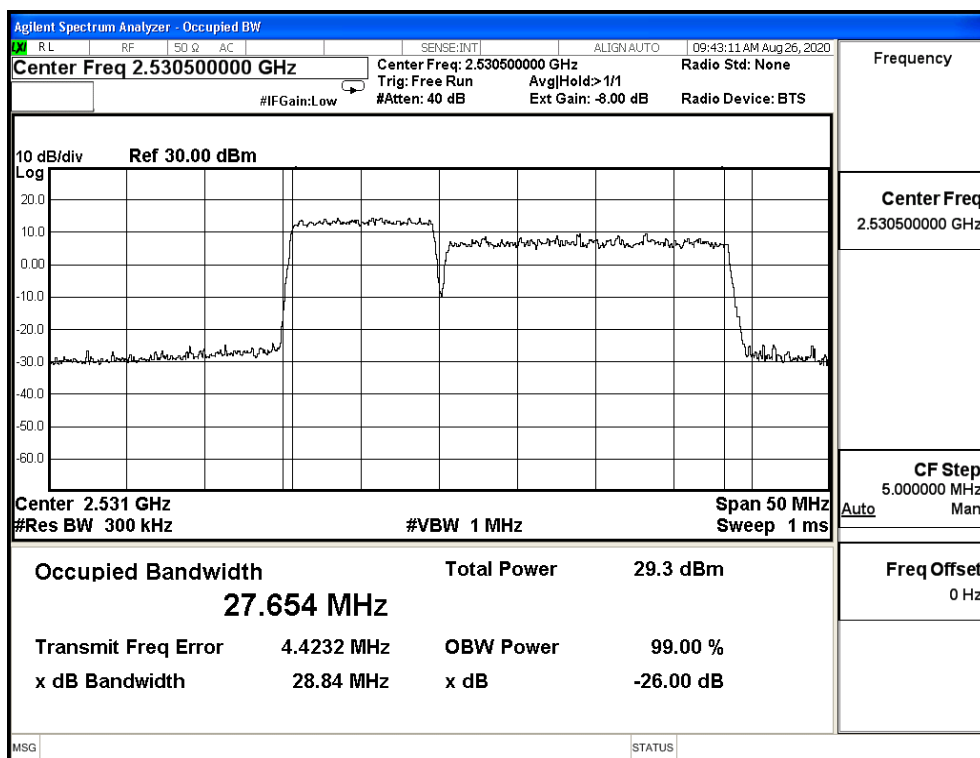
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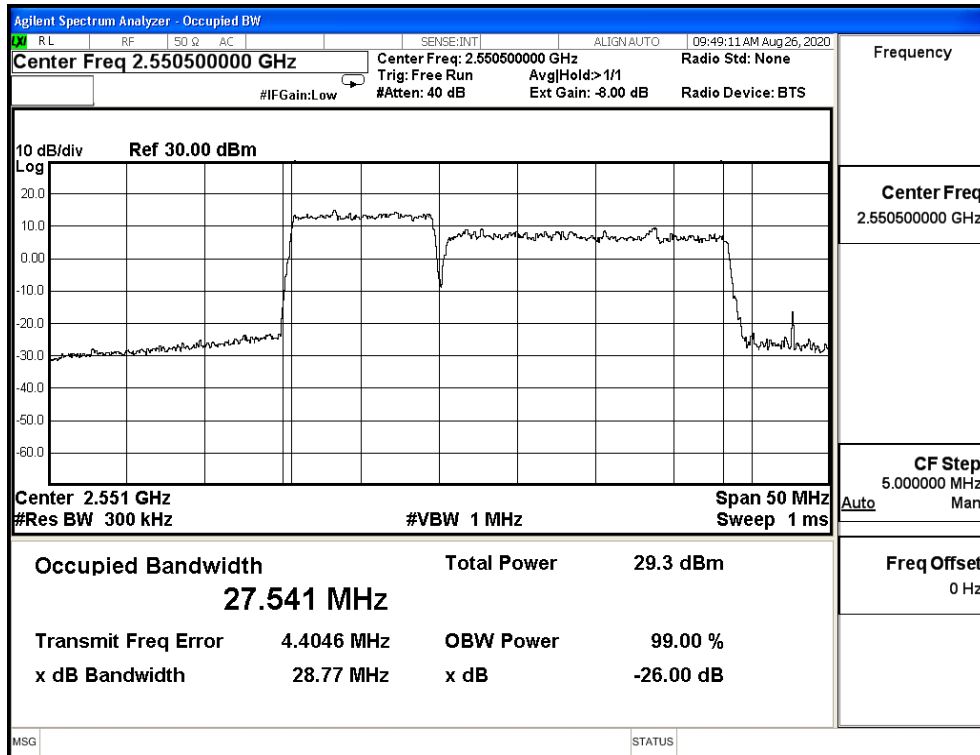
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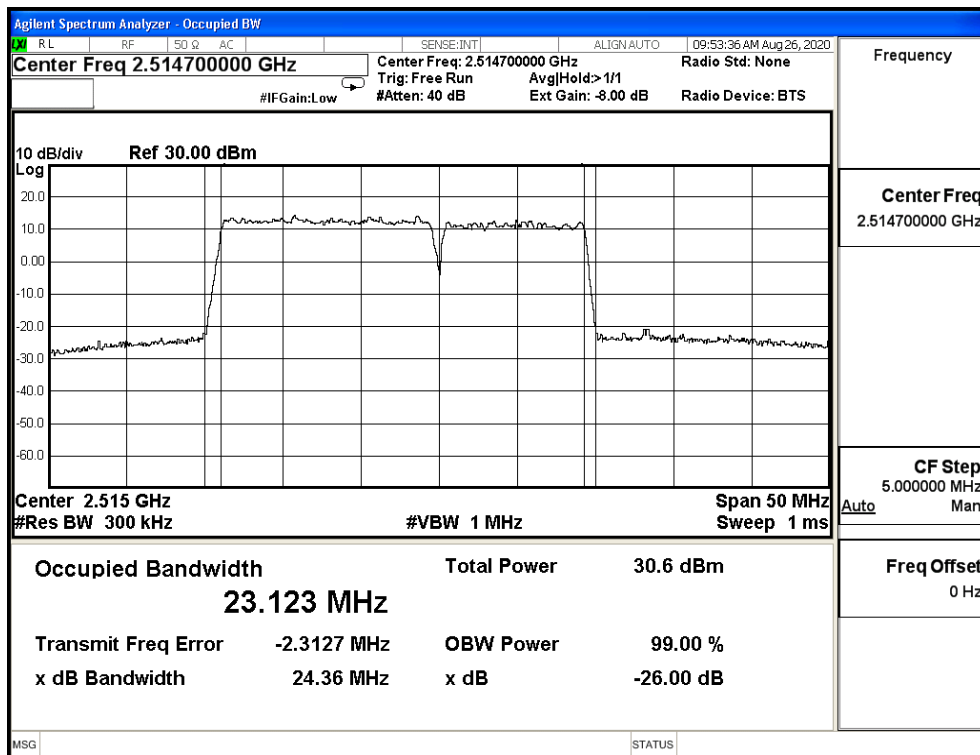
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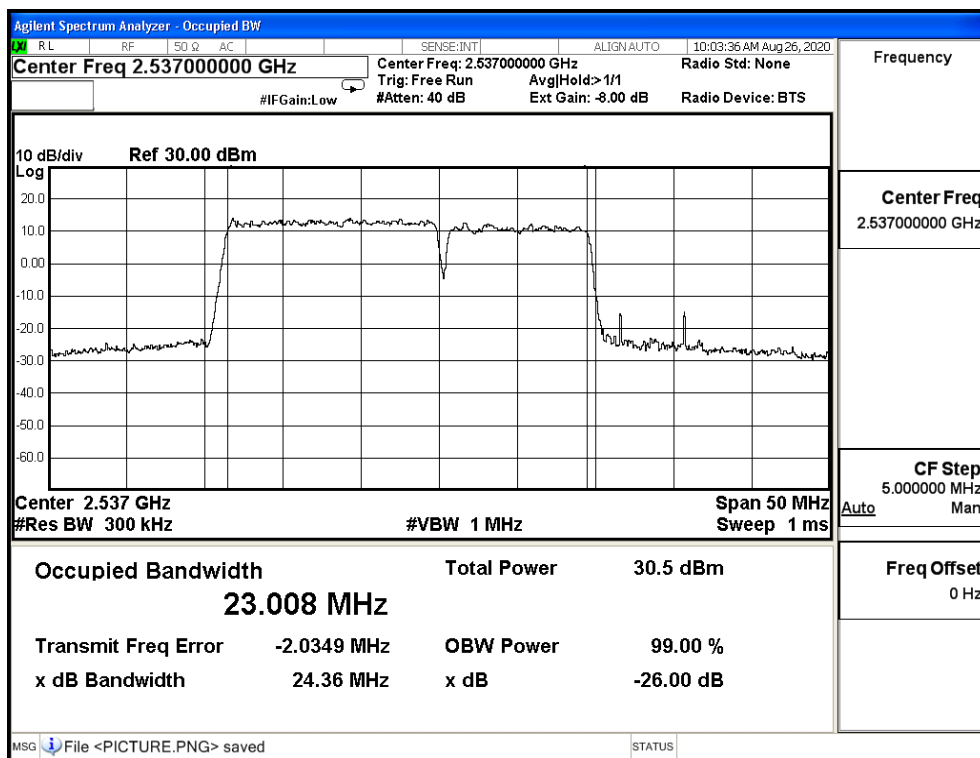
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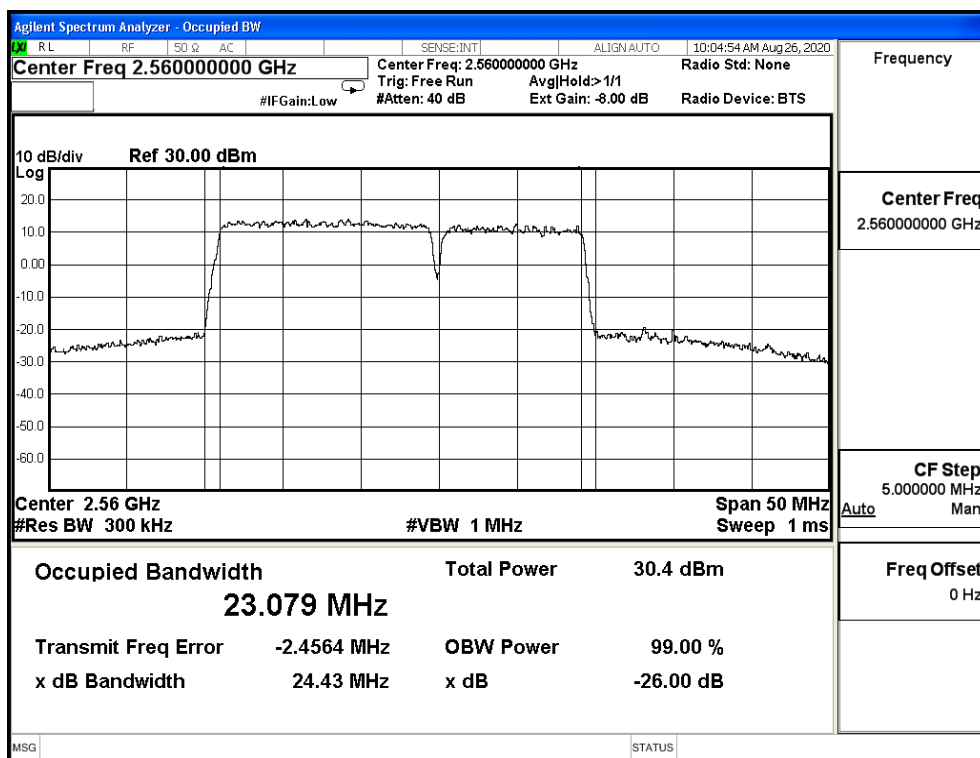
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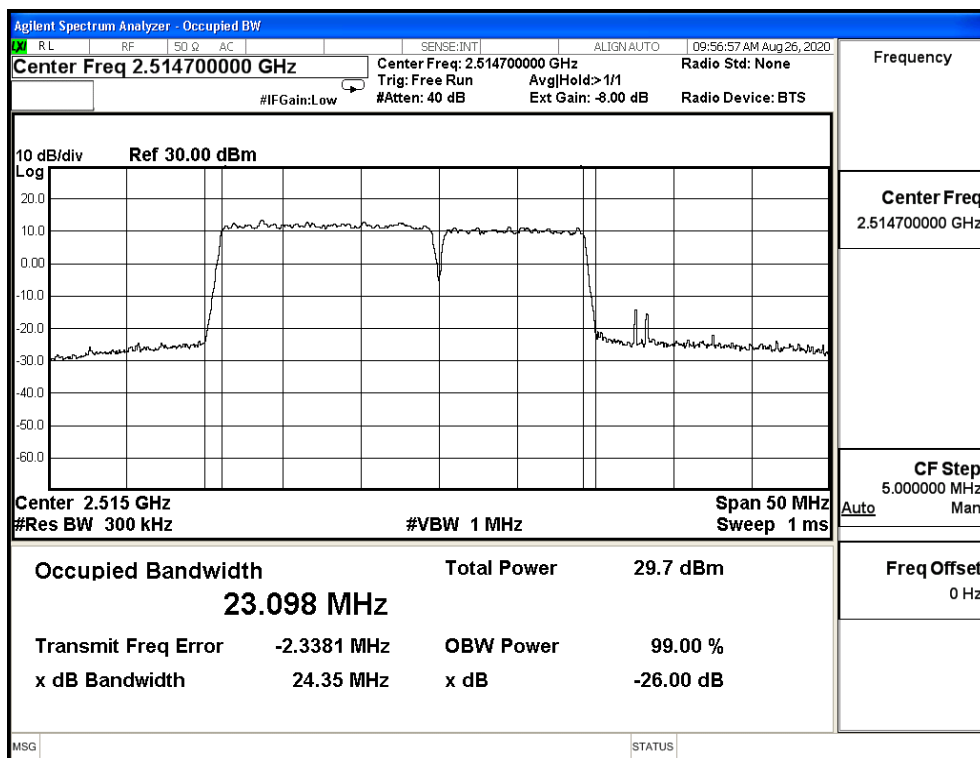
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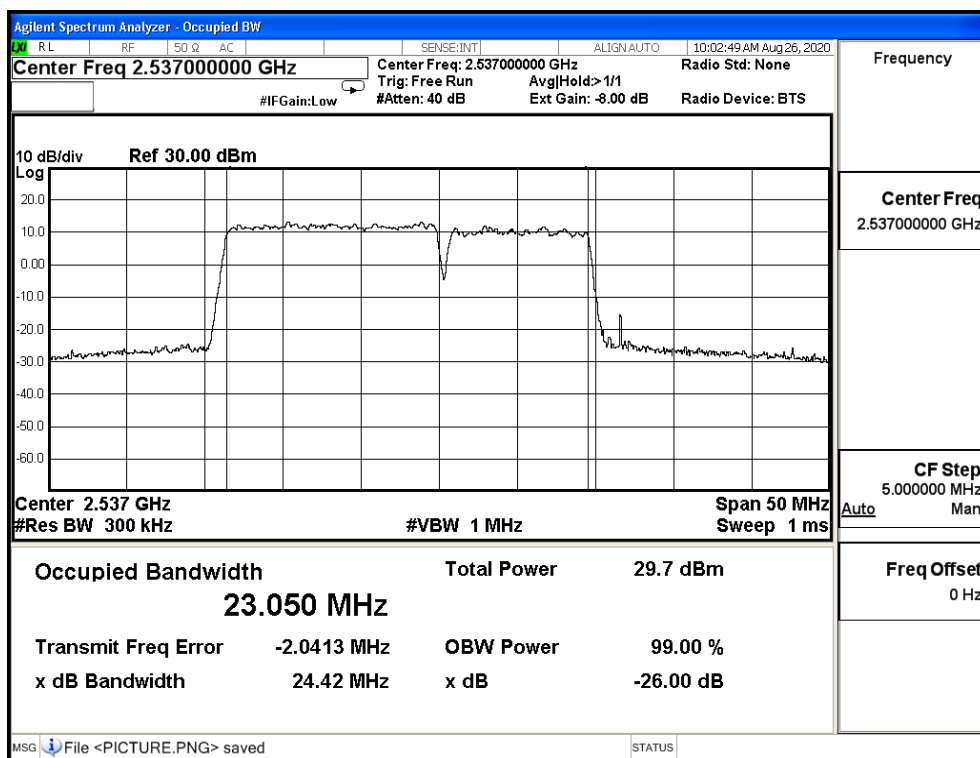
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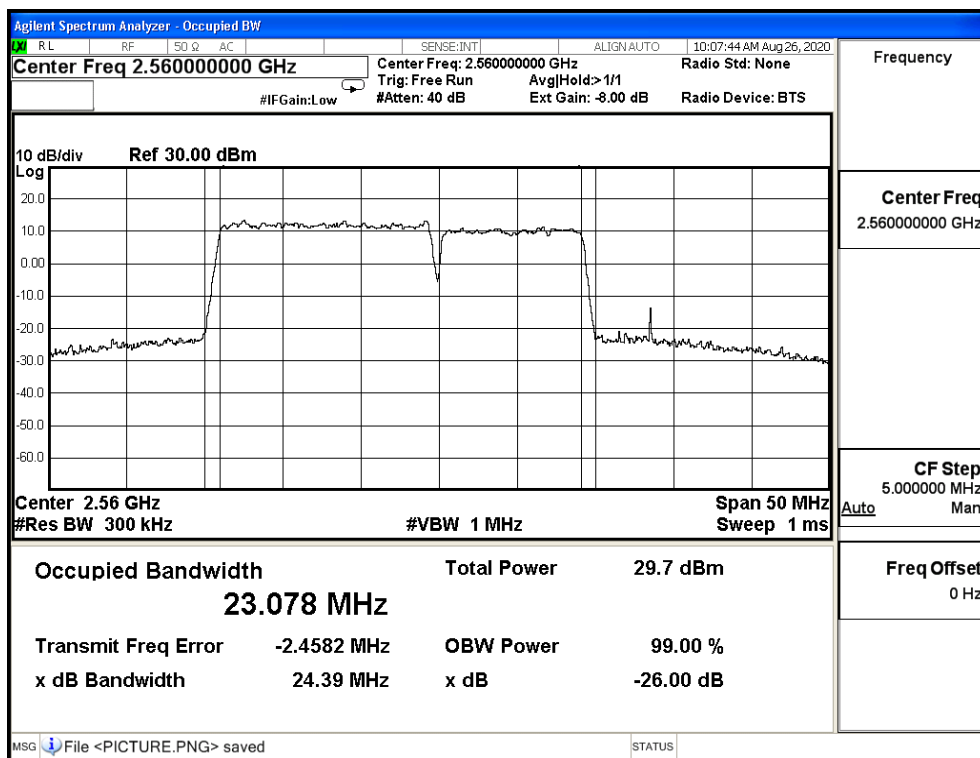
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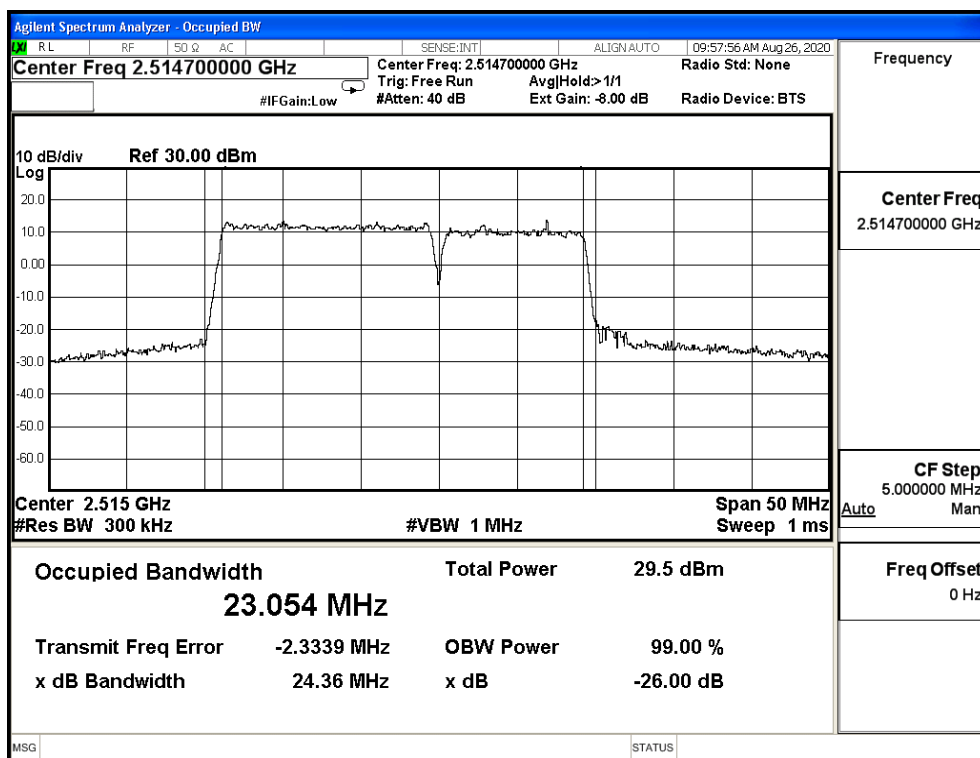
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CA_7C_CH20825+CH20945_15M+10M_64-QAM_75RB0+50RB0



Agilent Spectrum Analyzer - Occupied BW

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 10:00:01 AM Aug 26, 2020

Center Freq 2.537000000 GHz Center Freq: 2.537000000 GHz Radio Std: None Frequency

#IFGain: Low Trig: Free Run Avg/Hold: 1/1

#Atten: 40 dB Ext Gain: -8.00 dB Radio Device: BTS

10 dB/div Ref 30.00 dBm

Log

Center 2.537 GHz Span 50 MHz

#Res BW 300 kHz #VBW 1 MHz Sweep 1 ms

Occupied Bandwidth 23.039 MHz Total Power 29.9 dBm

Transmit Freq Error -2.0520 MHz OBW Power 99.00 %

x dB Bandwidth 24.33 MHz x dB -26.00 dB

CF Step 5.000000 MHz Man

Auto

Freq Offset 0 Hz

MSG File <PICTURE.PNG> saved STATUS

Agilent Spectrum Analyzer - Occupied BW

☒ R L RF SO AC SENSE:INT ALIGN: AUTO 10:08:54 AM Aug 26, 2020

Center Freq **2.560000000 GHz** Center Freq: 2.560000000 GHz Radio Std: None
 Trig: Free Run Avg[Hold]: 1/1
 #IFGain: Low #Atten: 40 dB Ext Gain: -8.00 dB Radio Device: BTS

Frequency

Center Freq
2.560000000 GHz

10 dB/div Ref 30.00 dBm
 Log

Center 2.56 GHz Span 50 MHz
 #Res BW 300 kHz #VBW 1 MHz Sweep 1 ms

Occupied Bandwidth Total Power 29.5 dBm
23.099 MHz

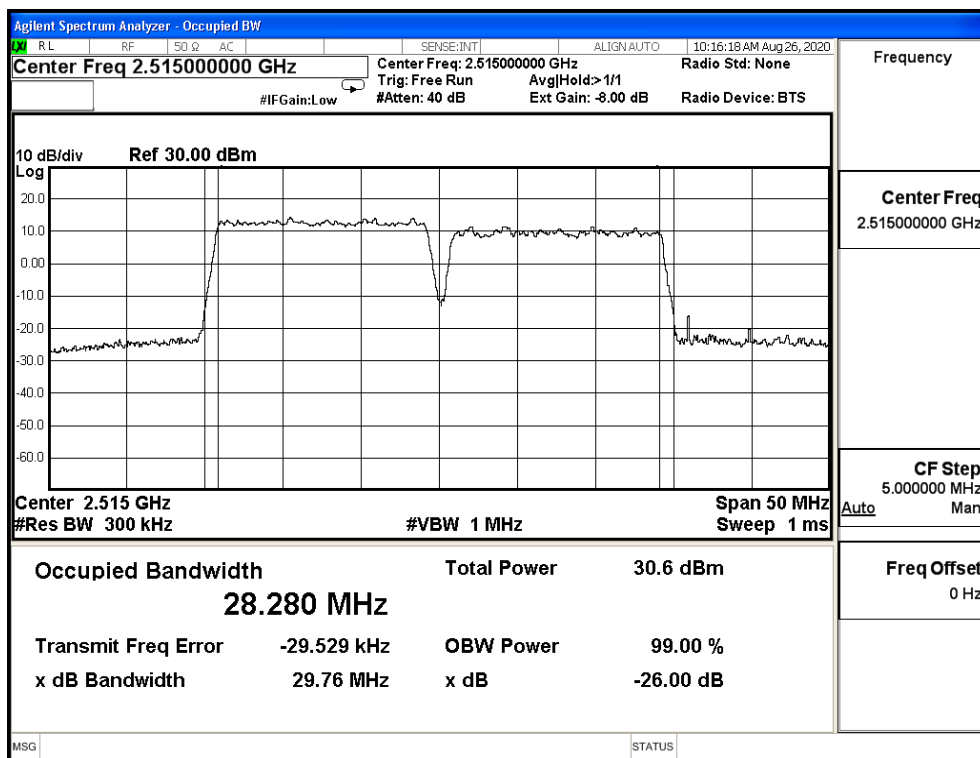
Transmit Freq Error -2.4476 MHz OBW Power 99.00 %
 x dB Bandwidth 24.34 MHz x dB -26.00 dB

CF Step
 5.000000 MHz
 Auto Man

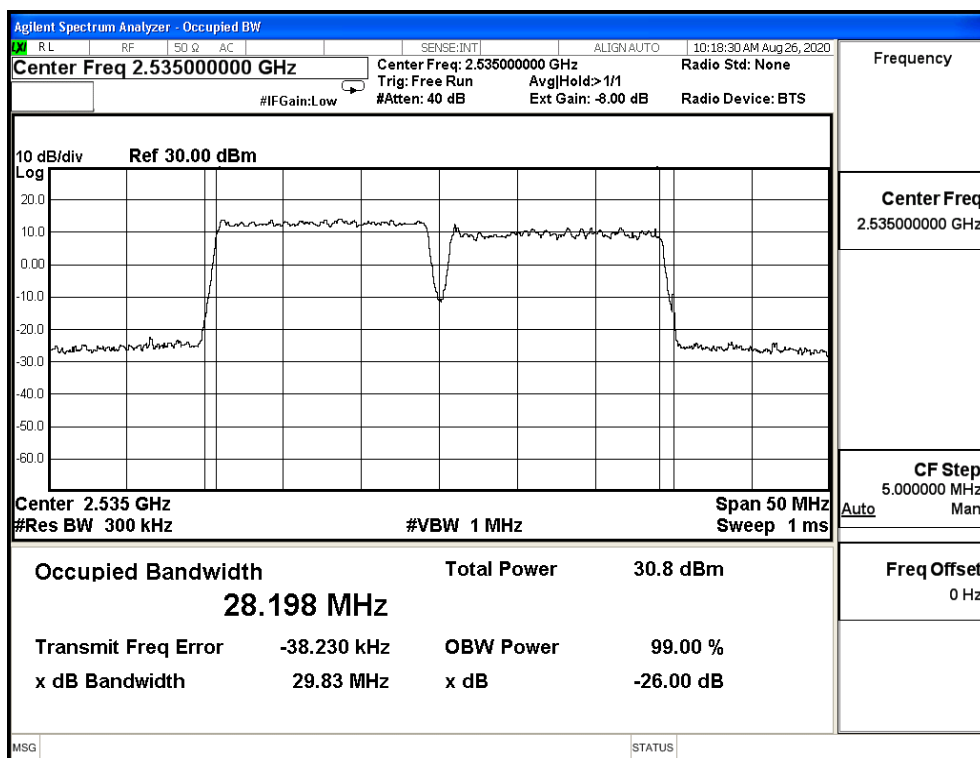
Freq Offset
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MSG STATUS

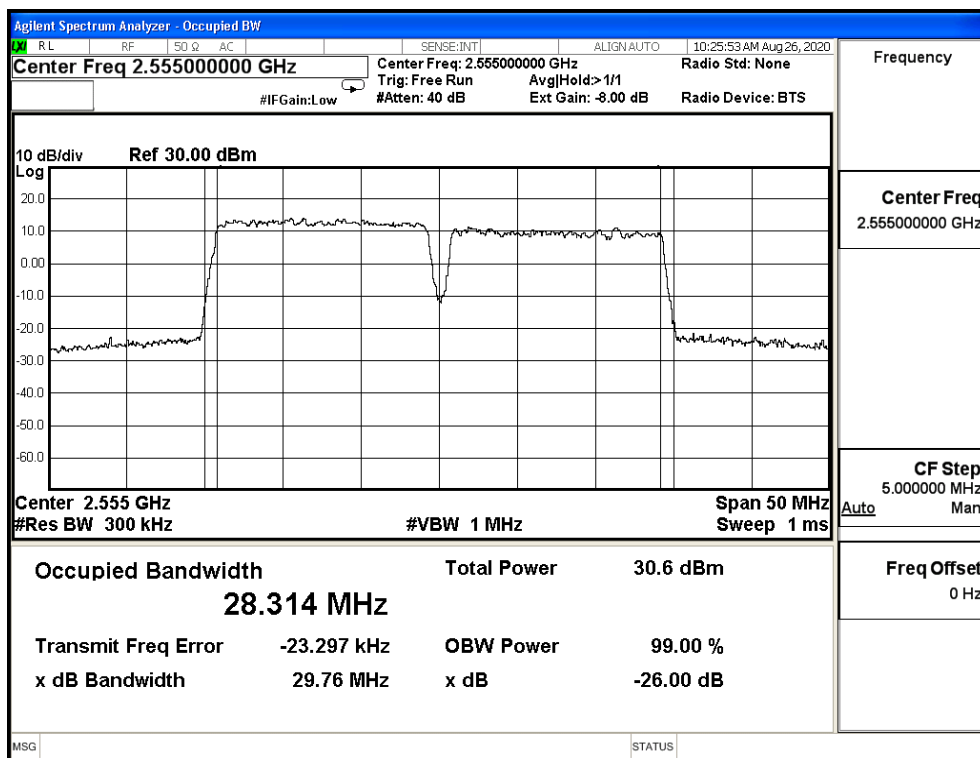
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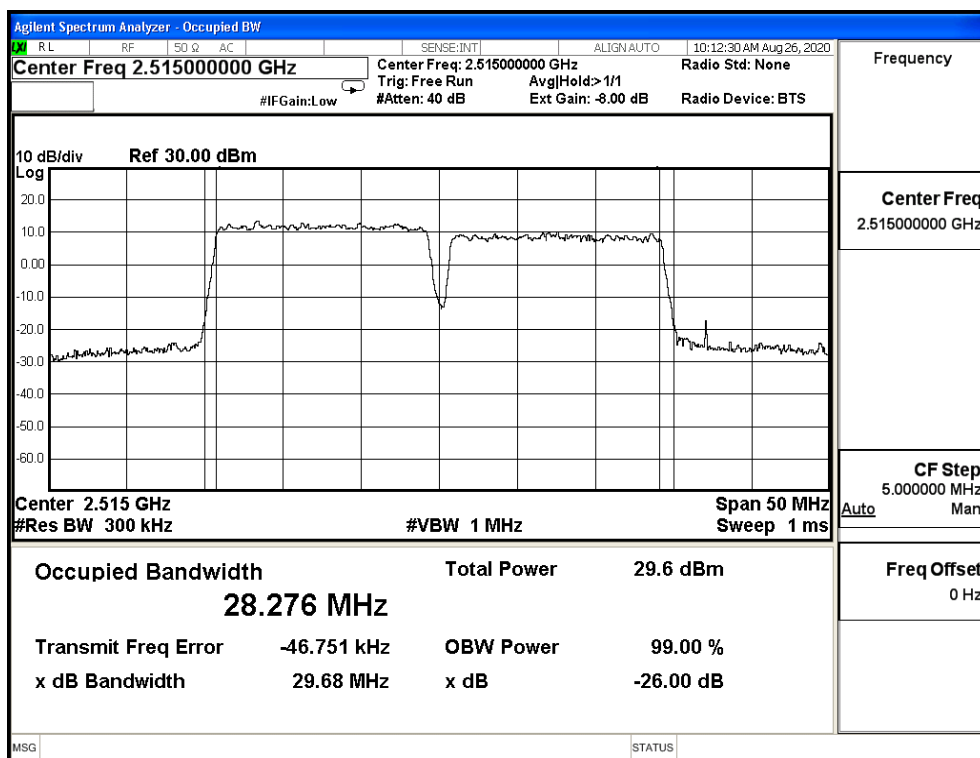
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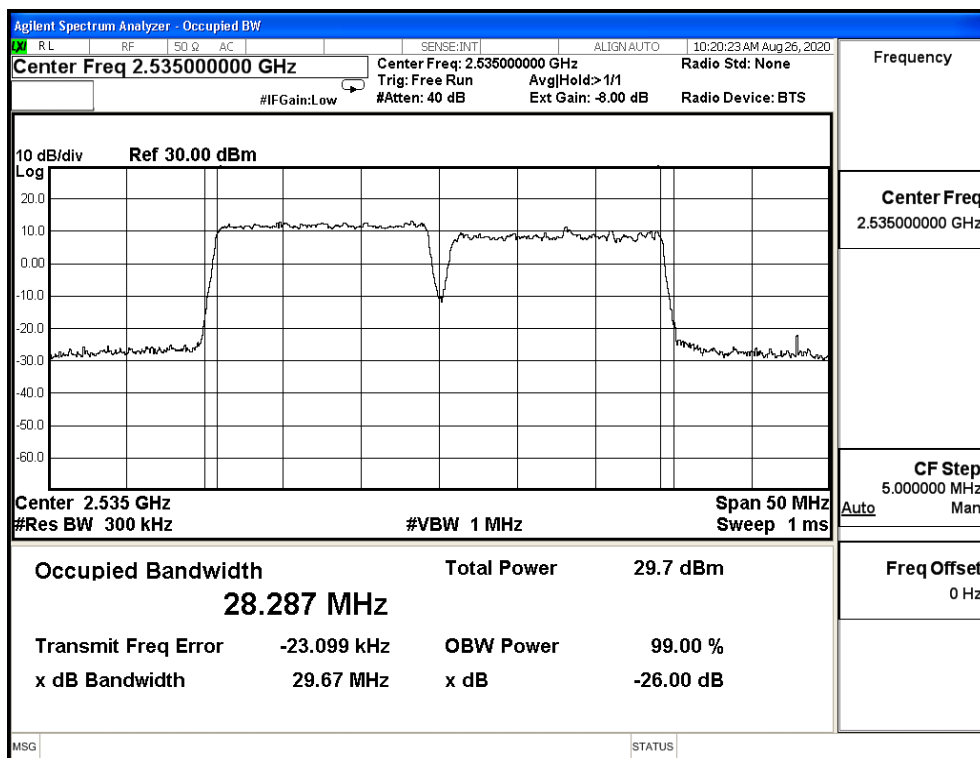
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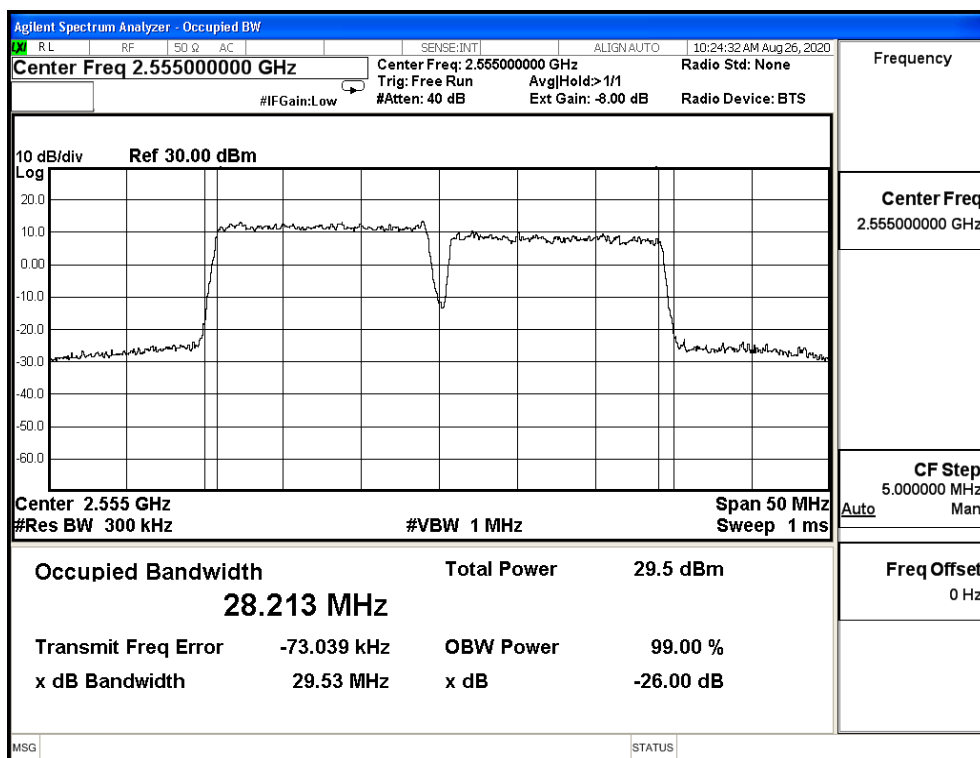
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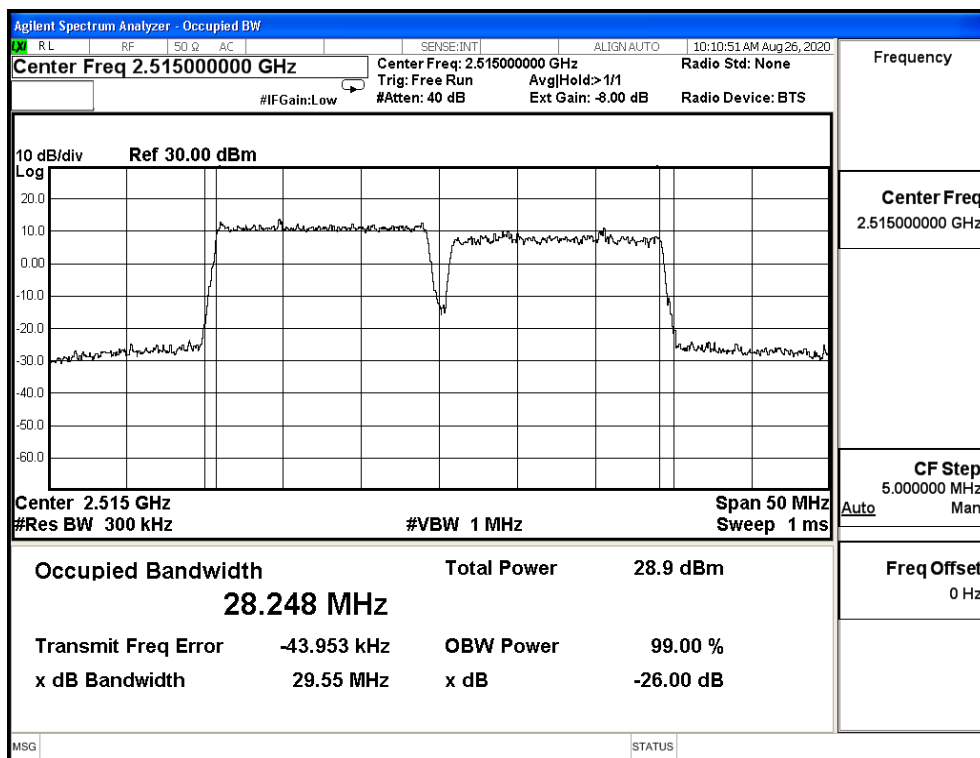
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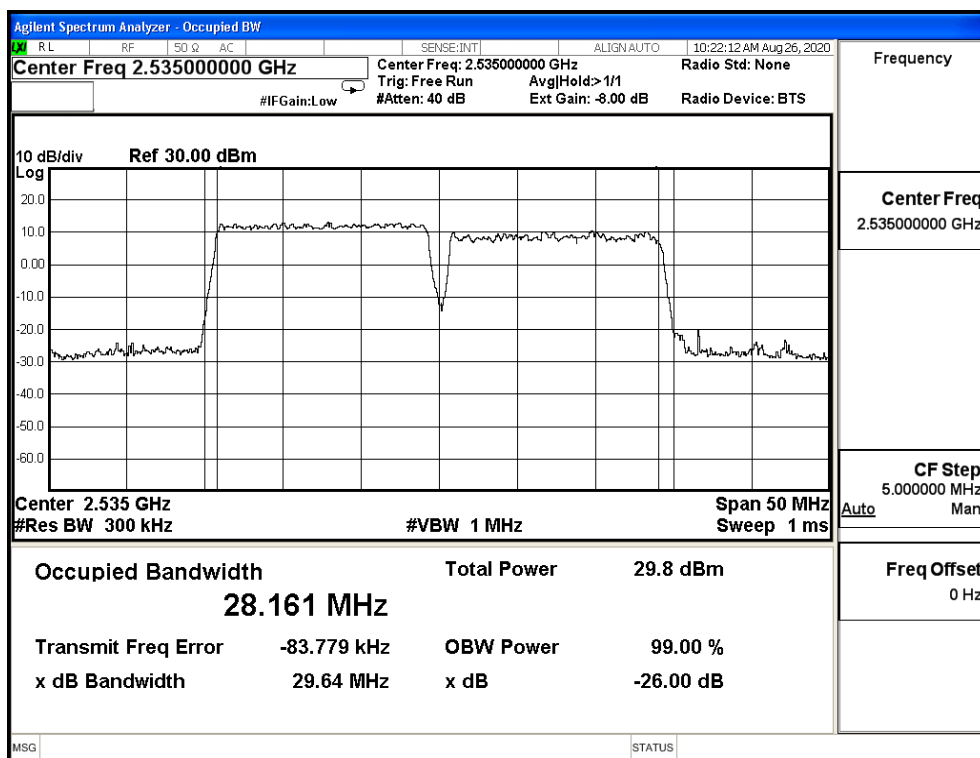
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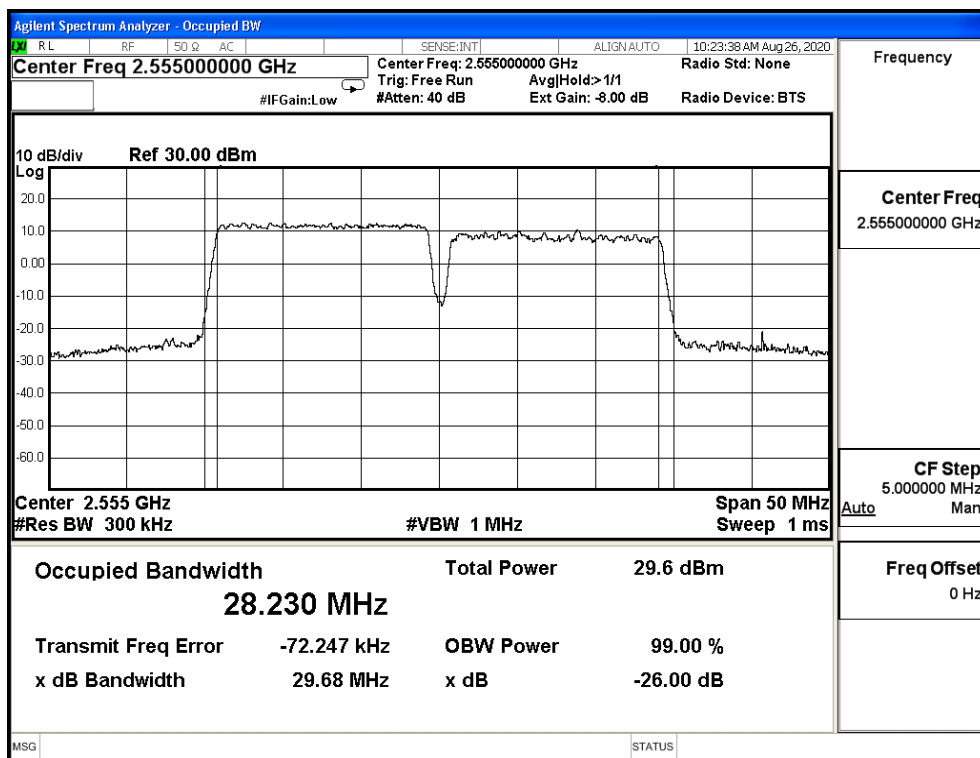
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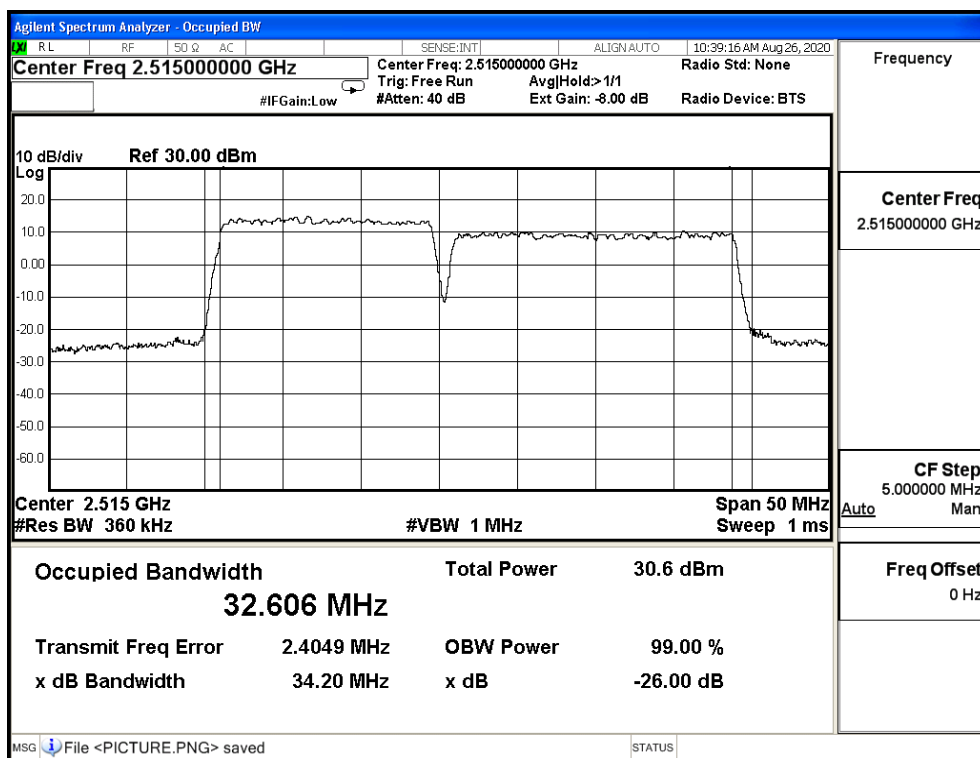
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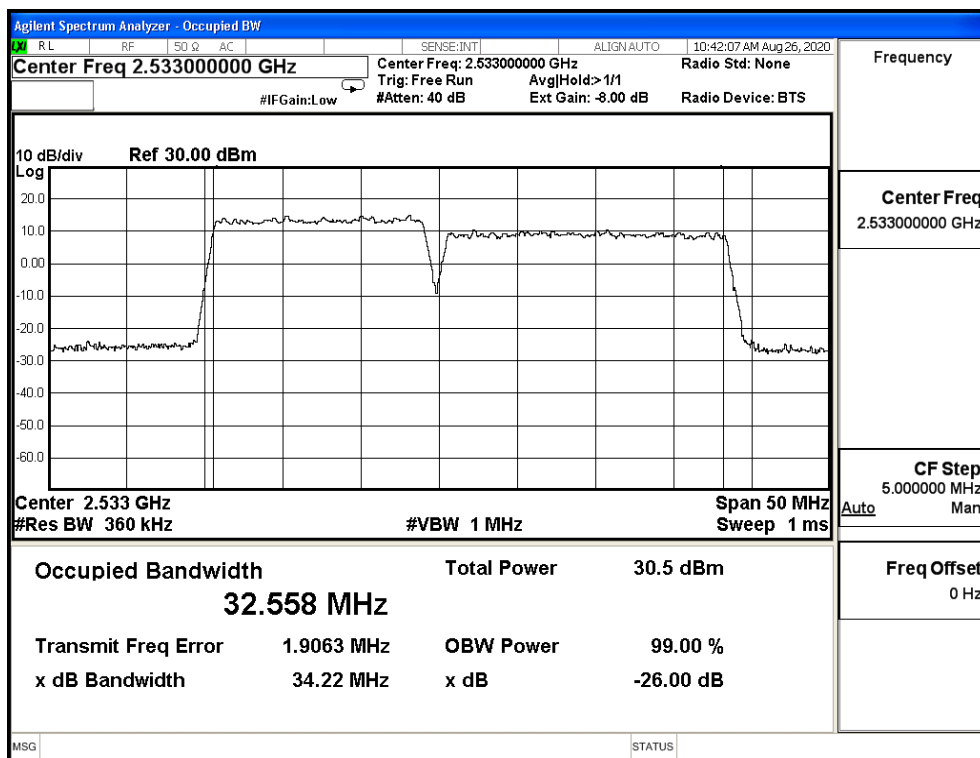
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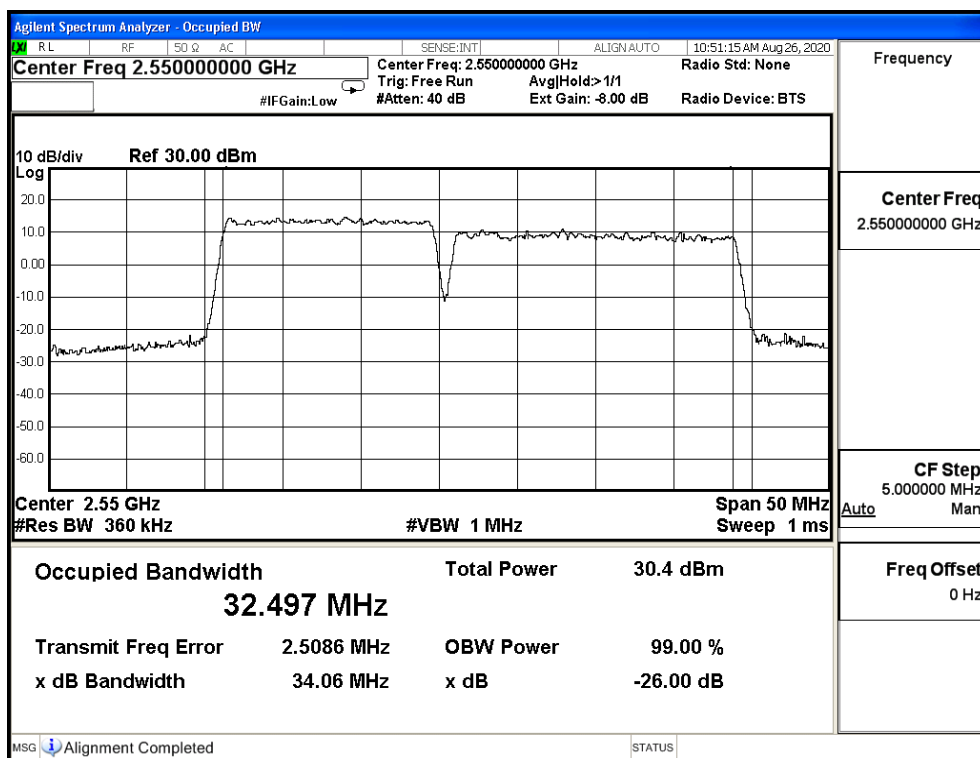
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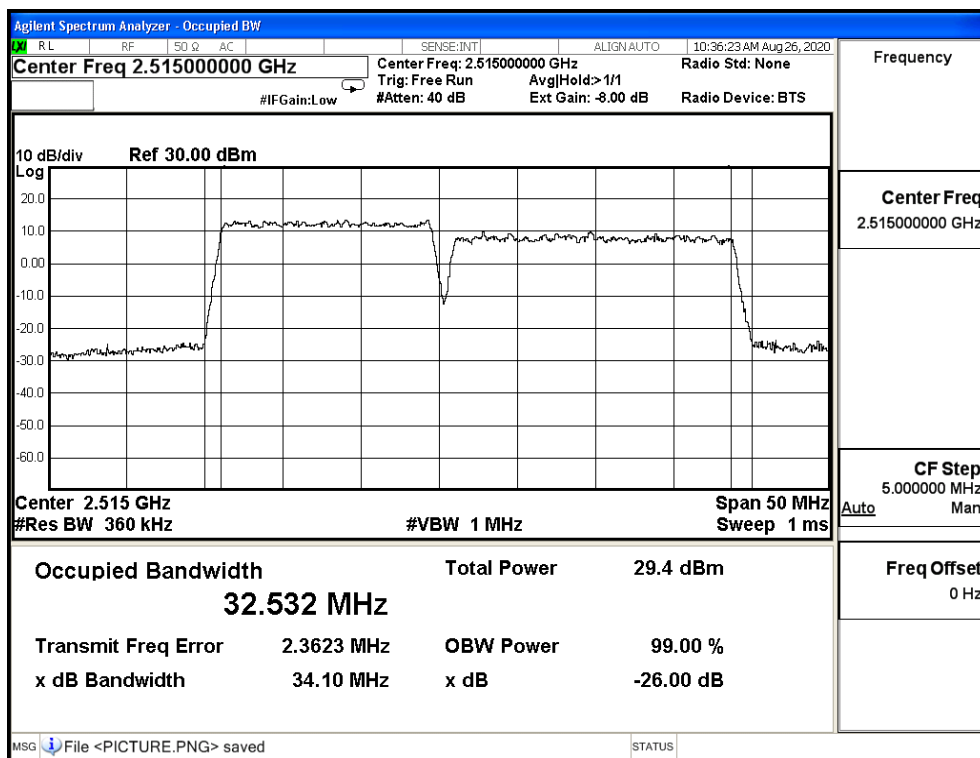
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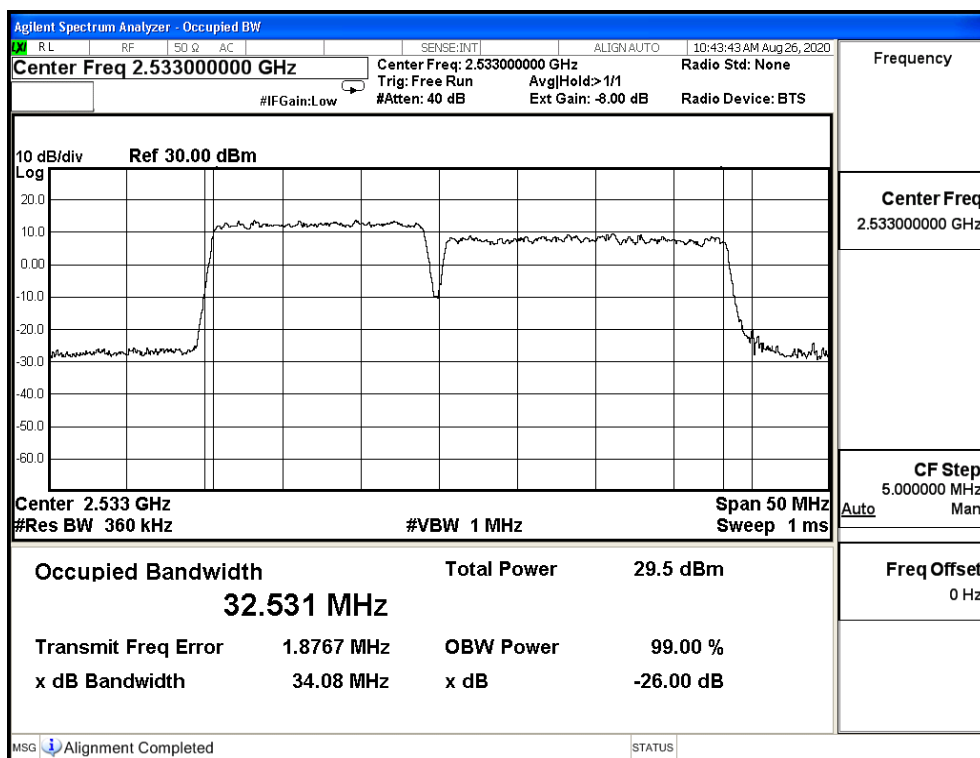
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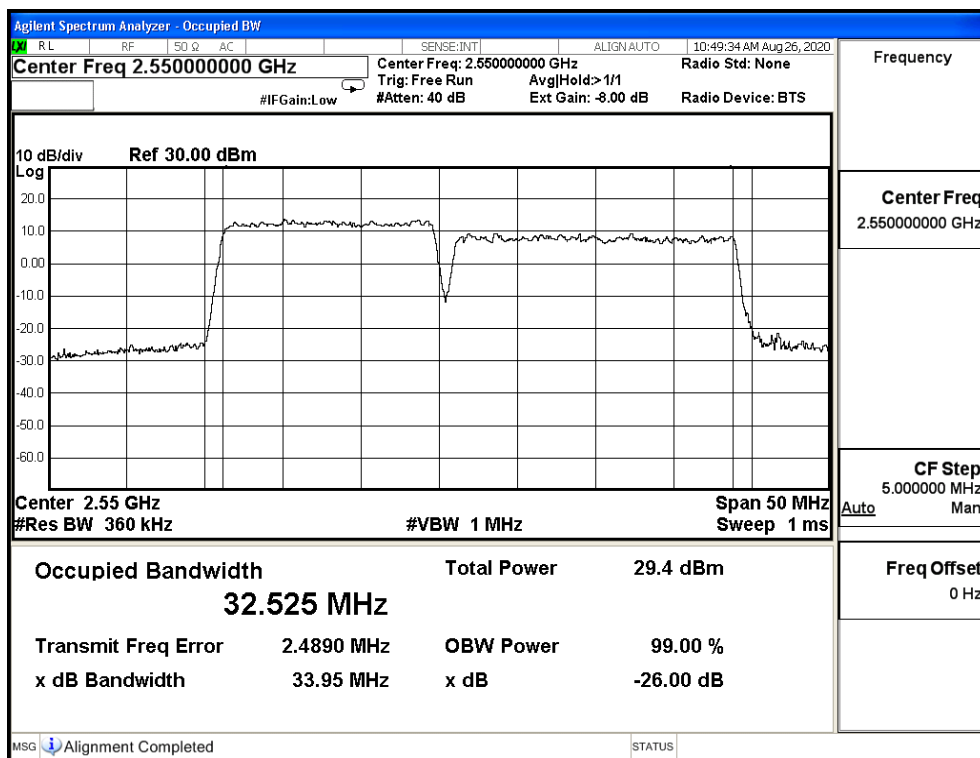
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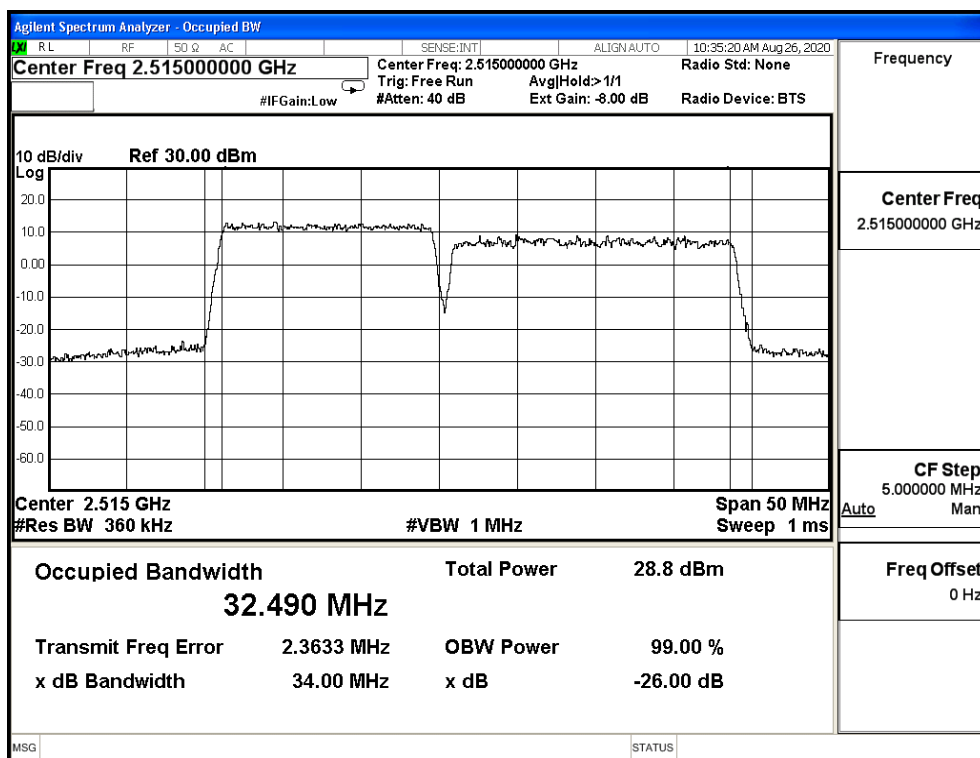
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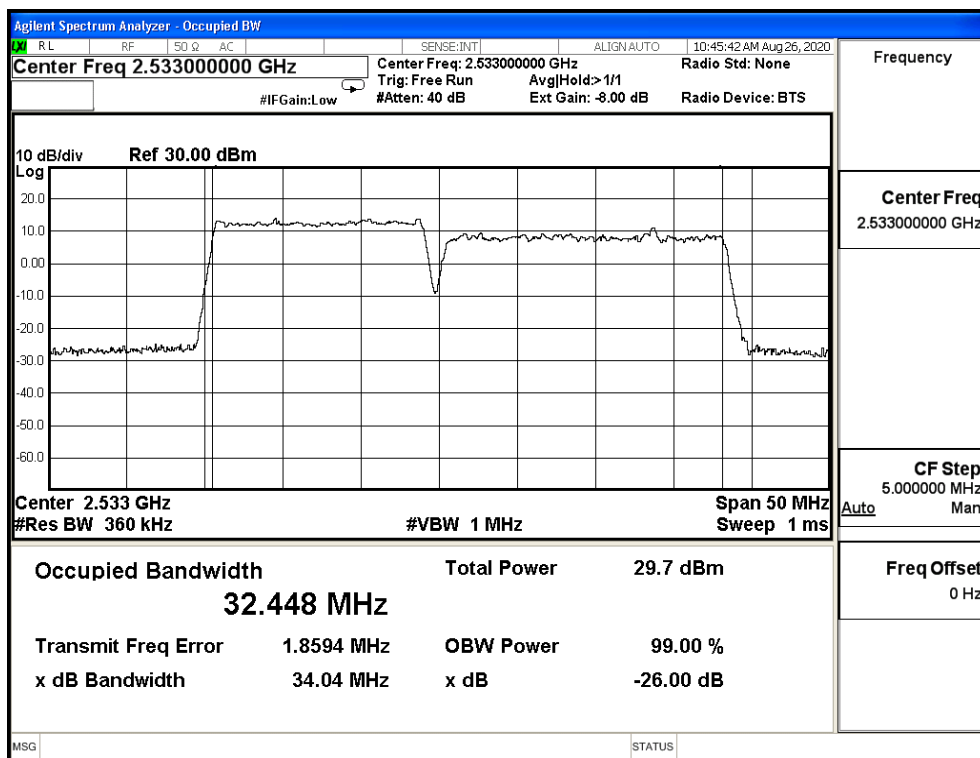
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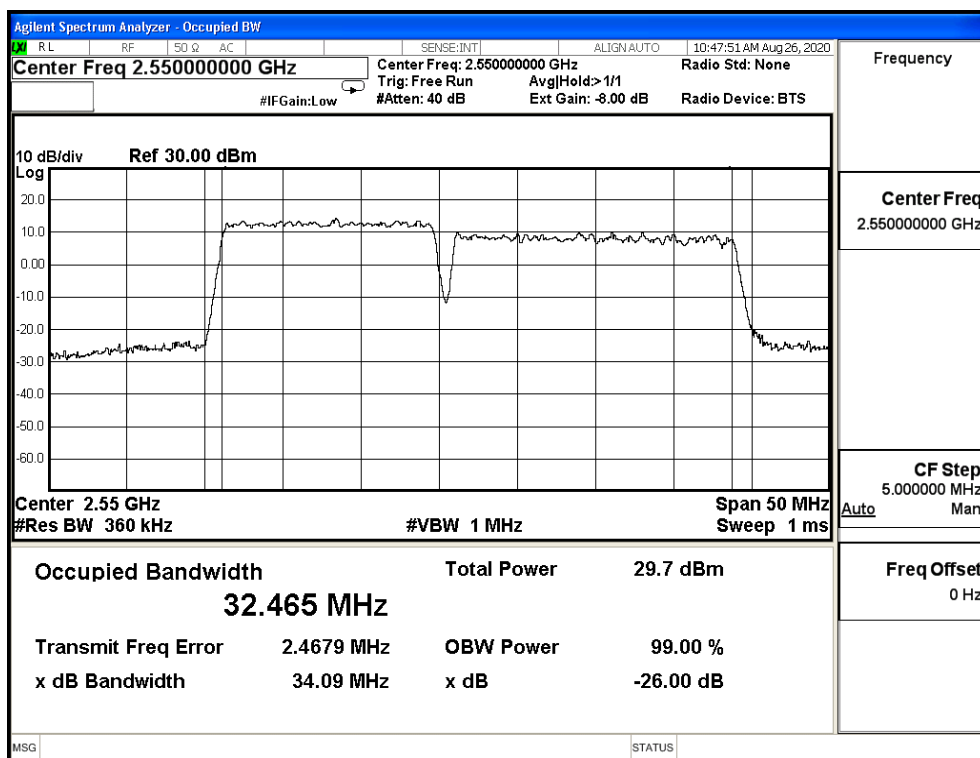
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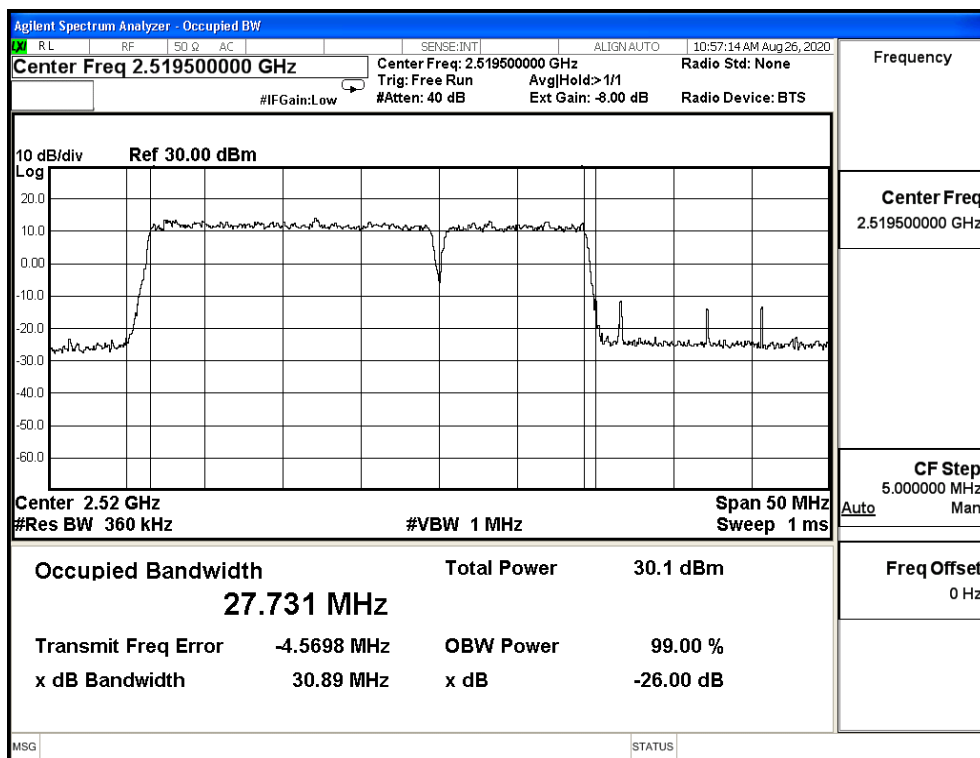
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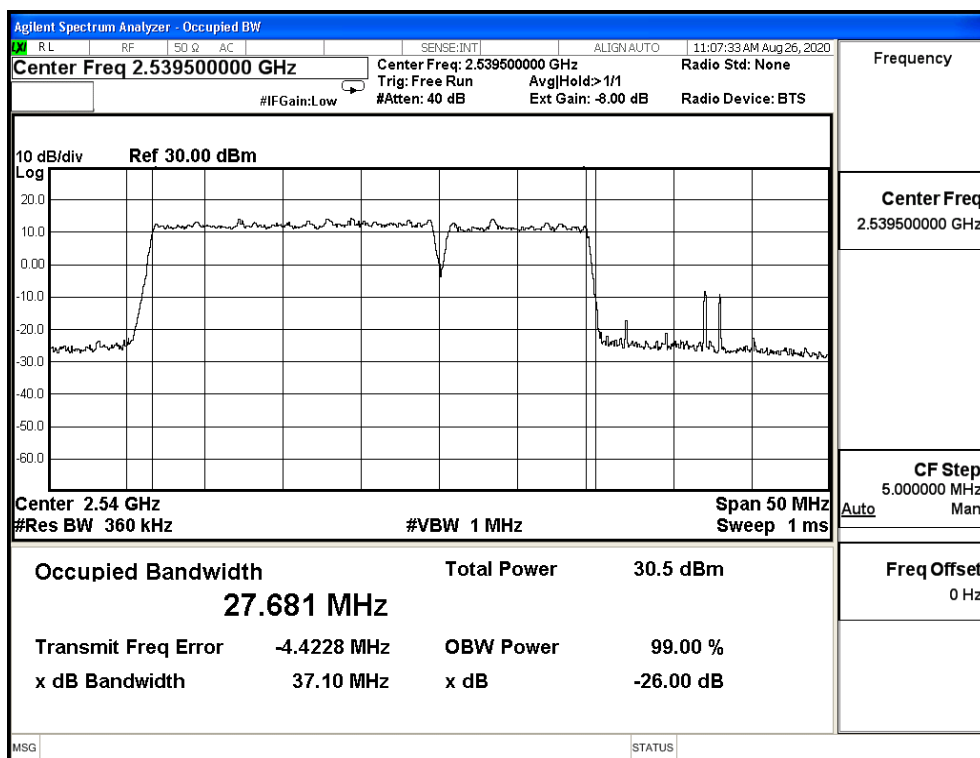
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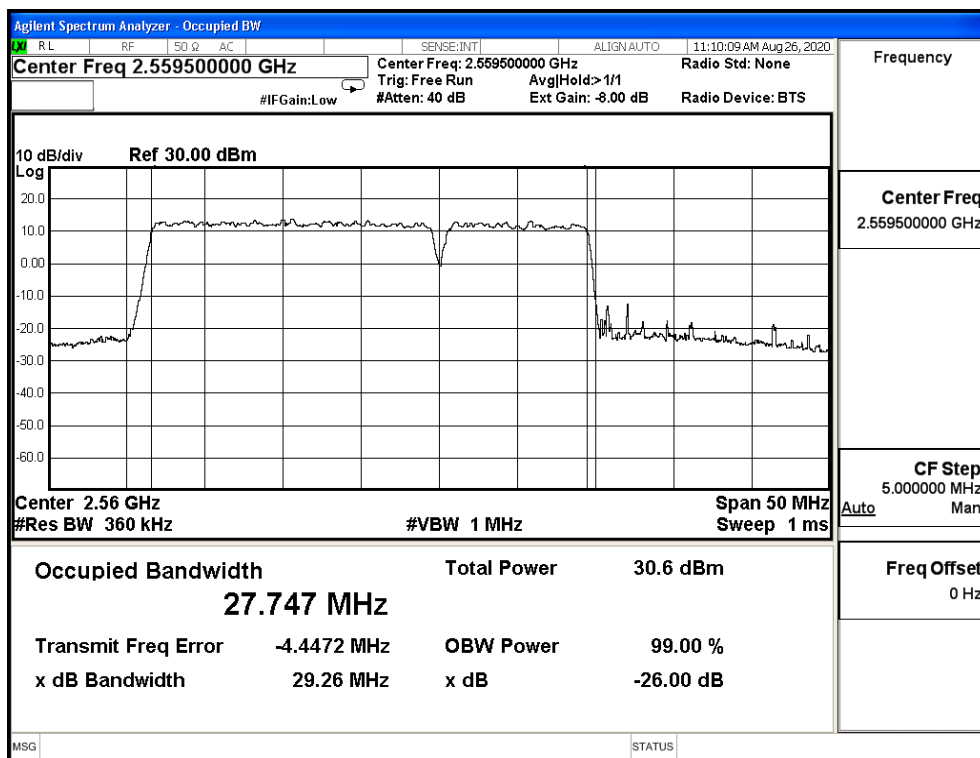
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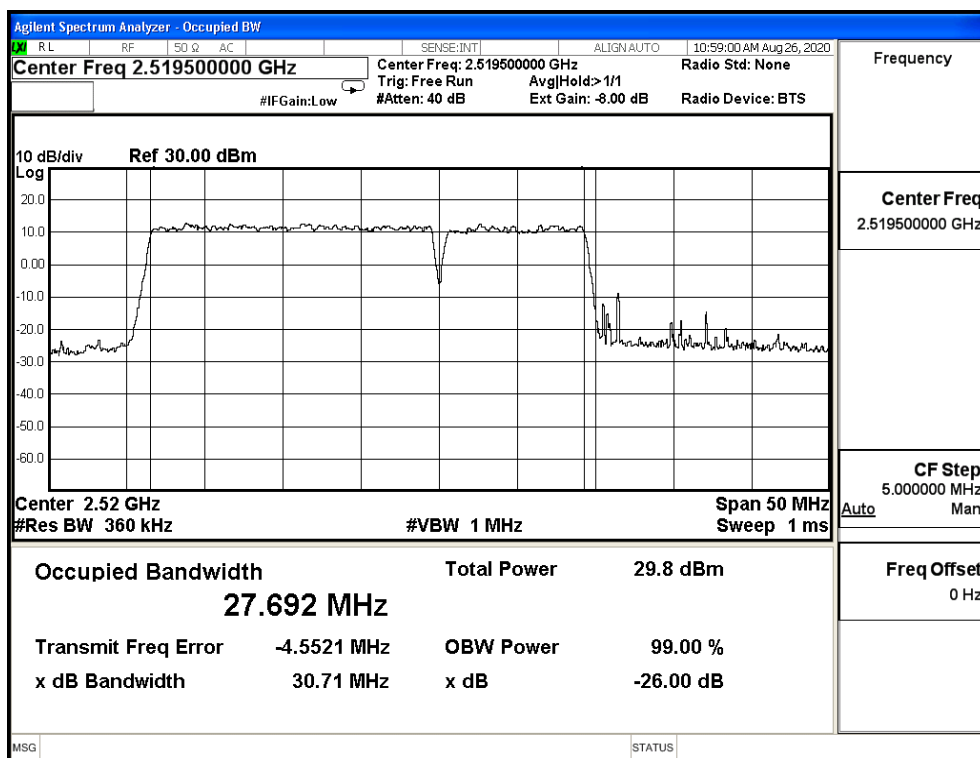
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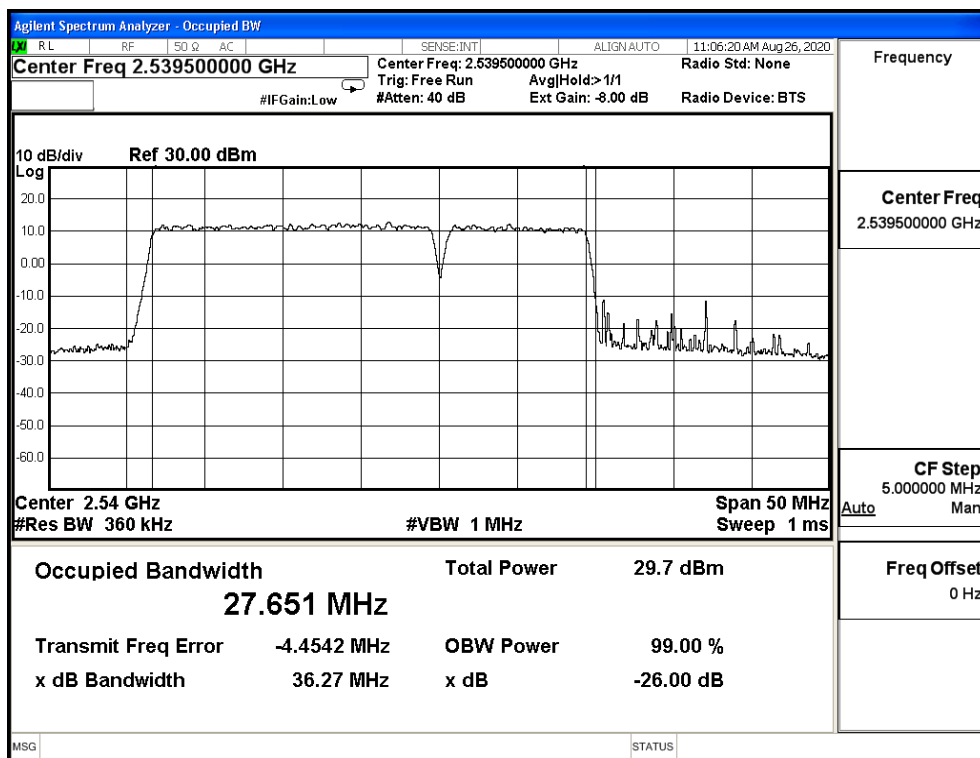
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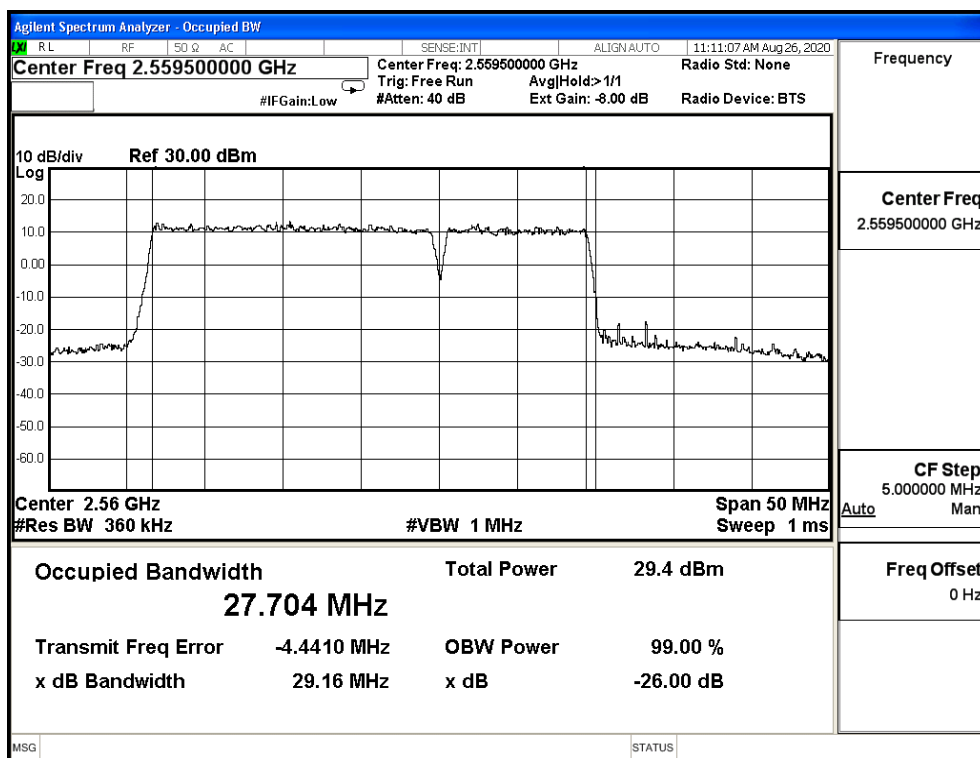
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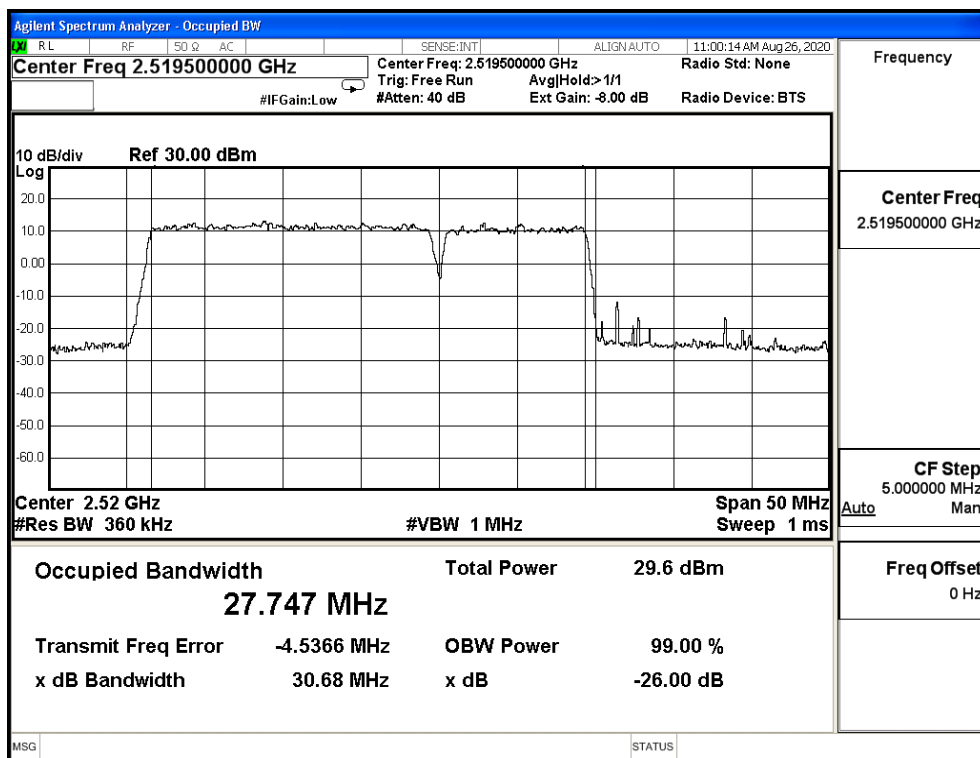
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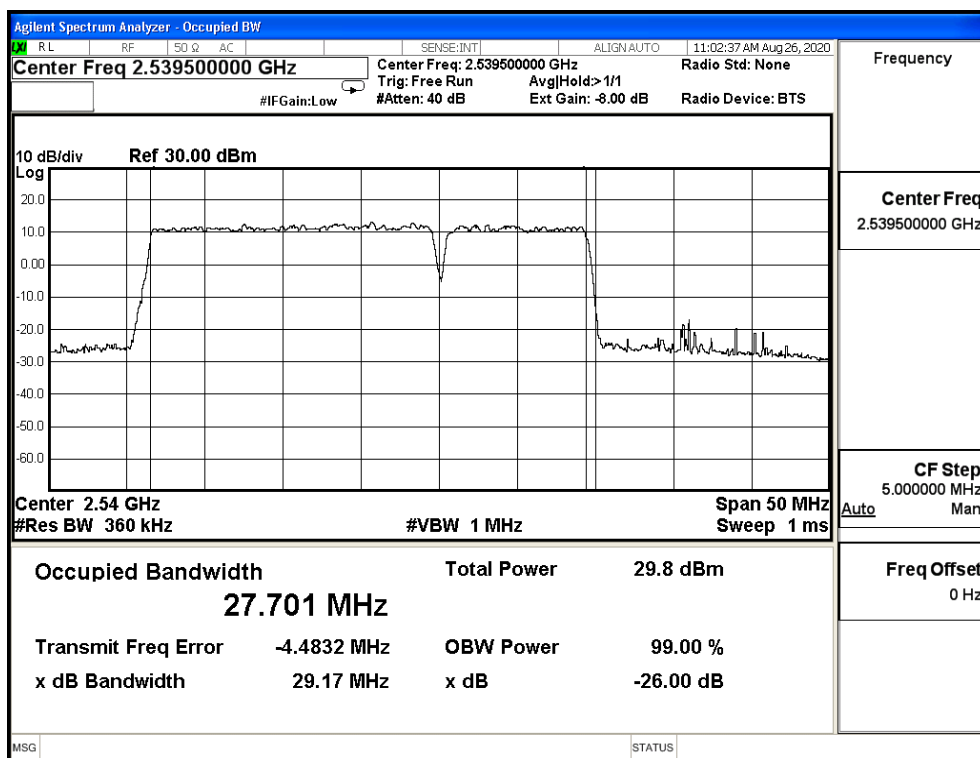
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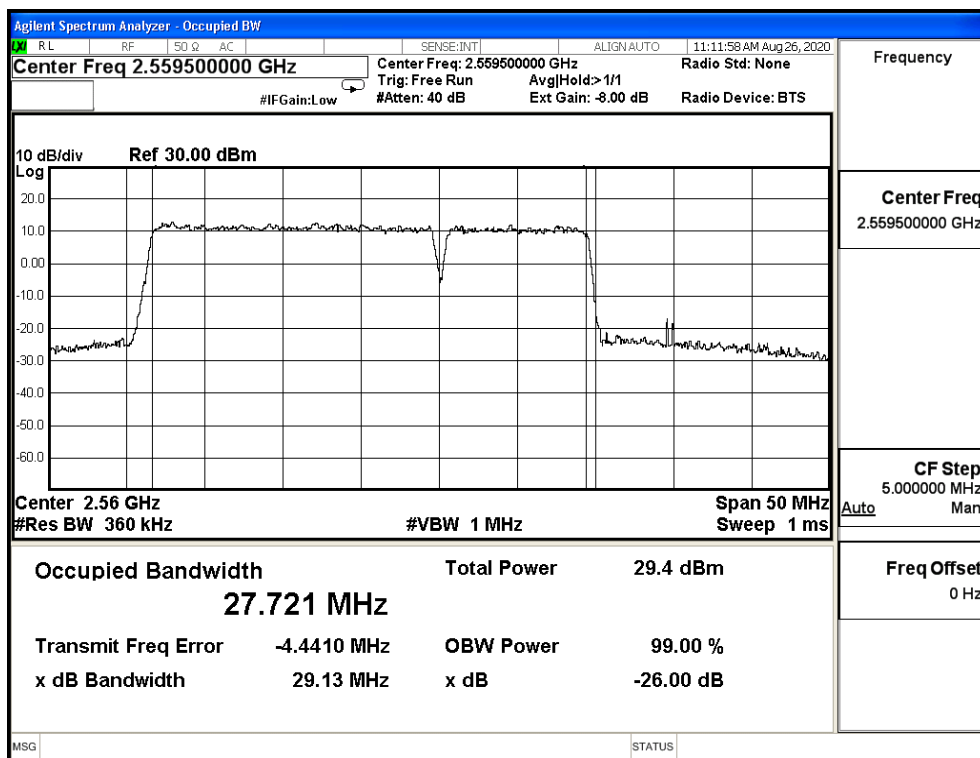
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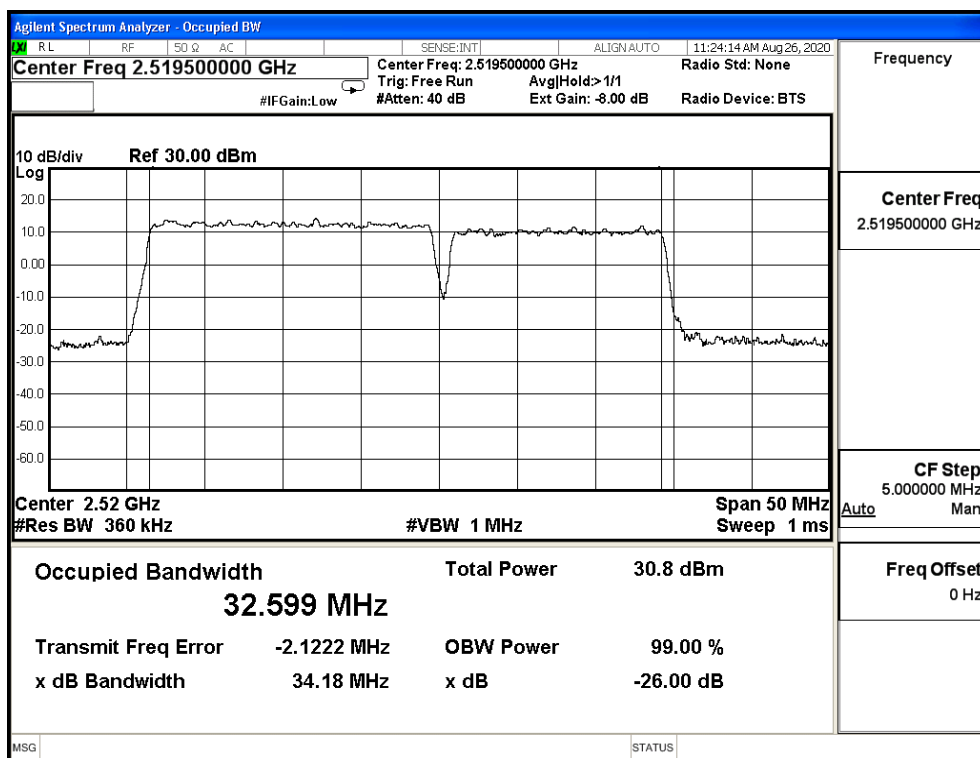
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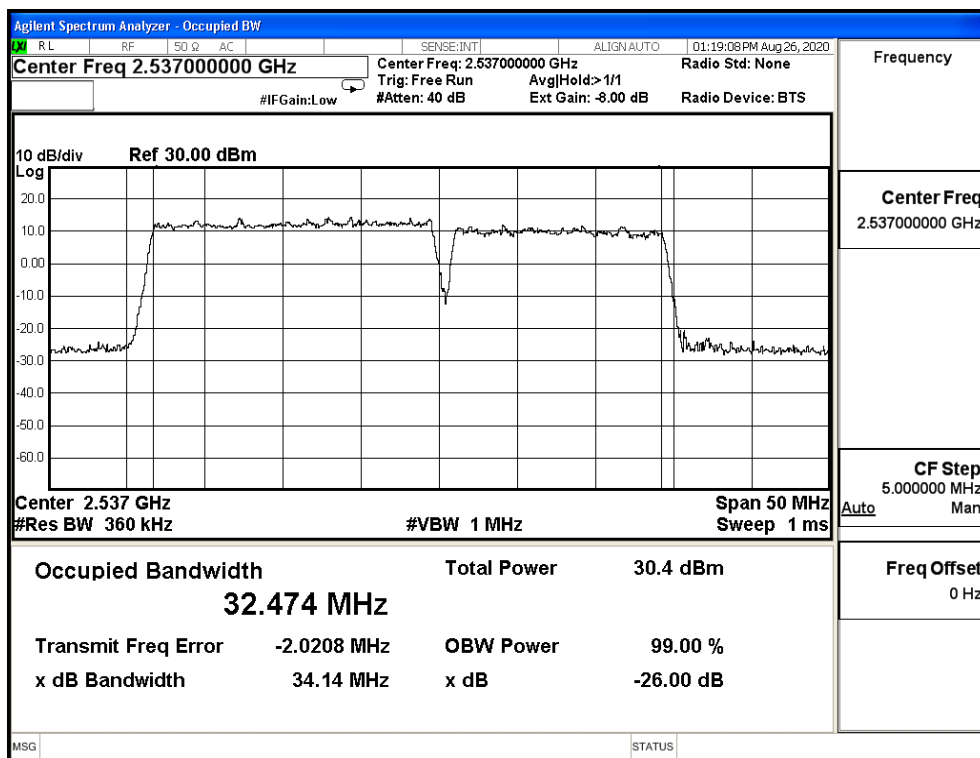
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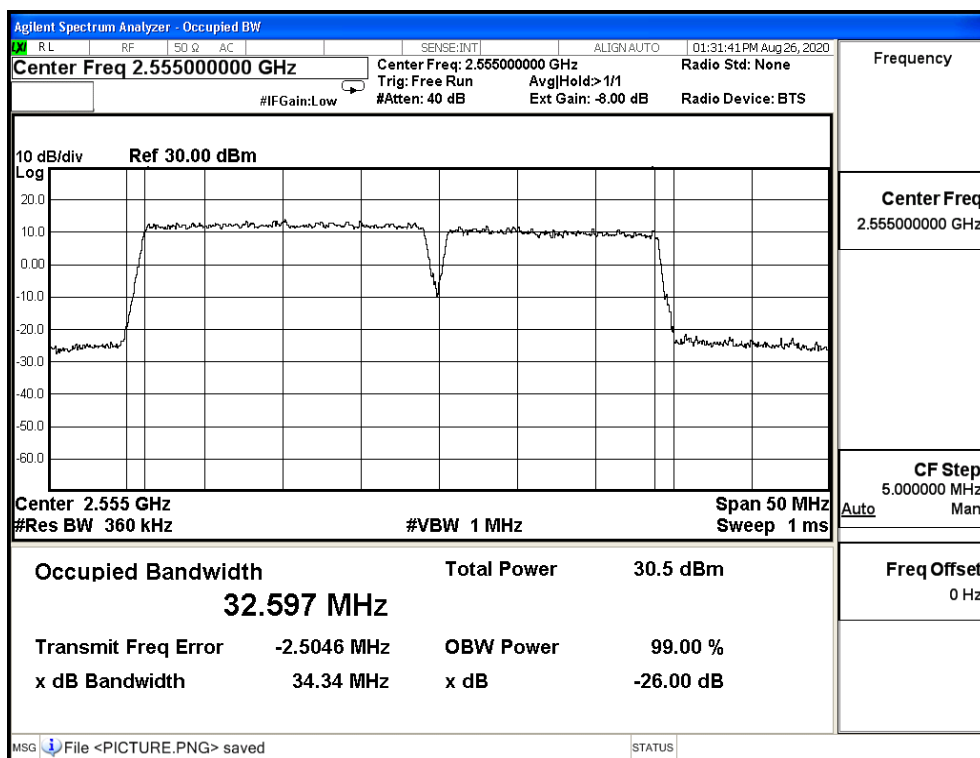
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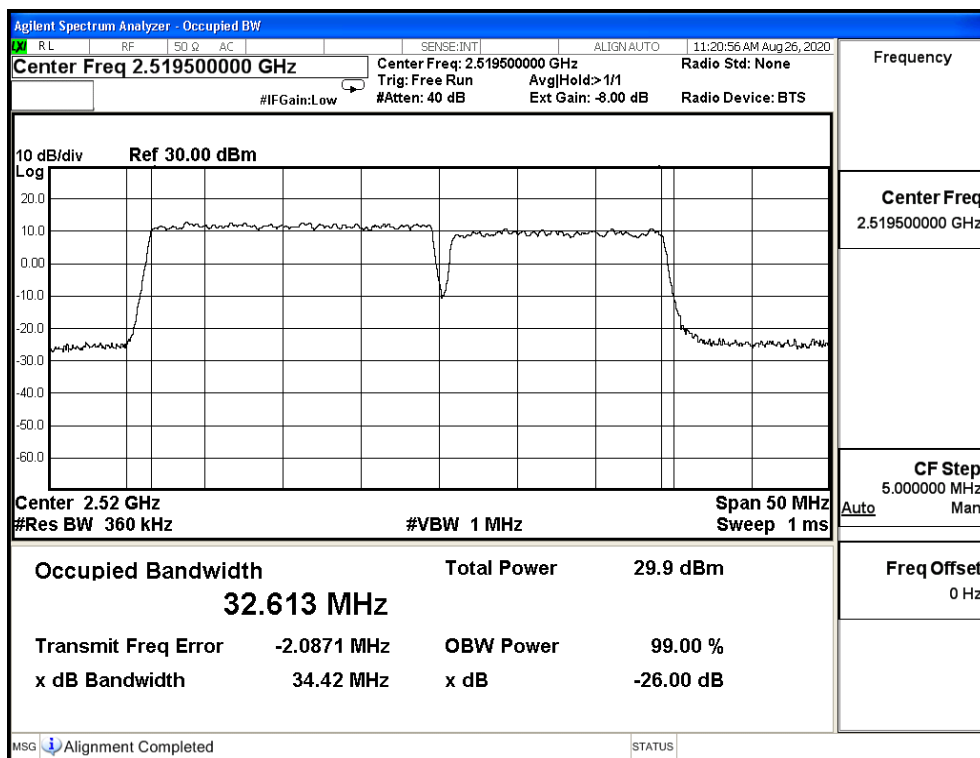
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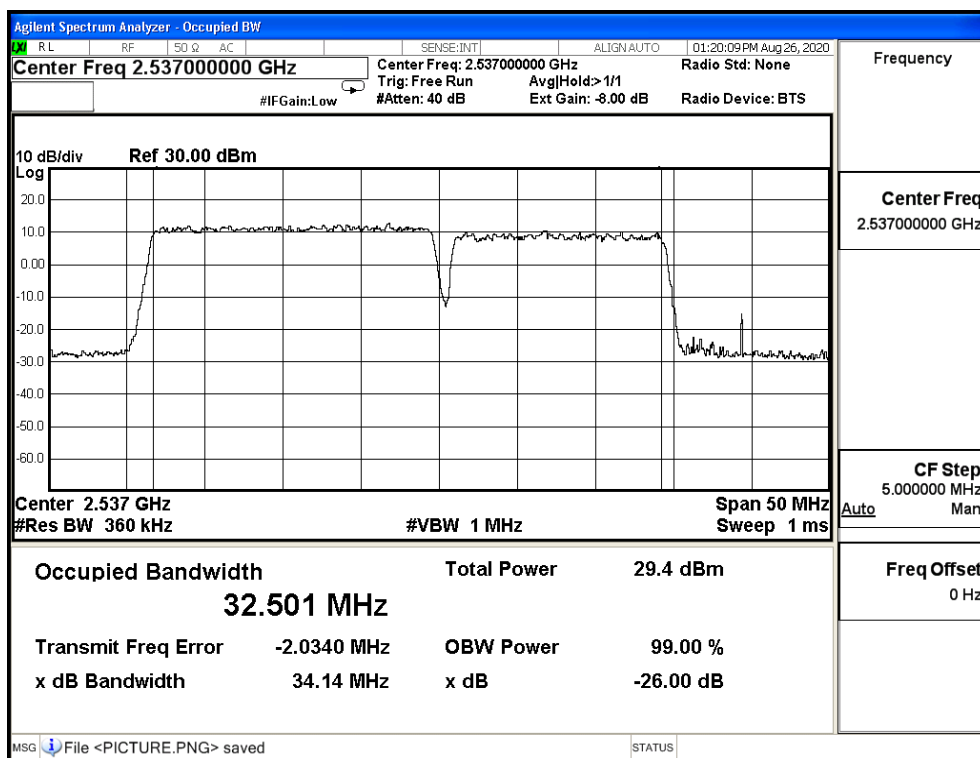
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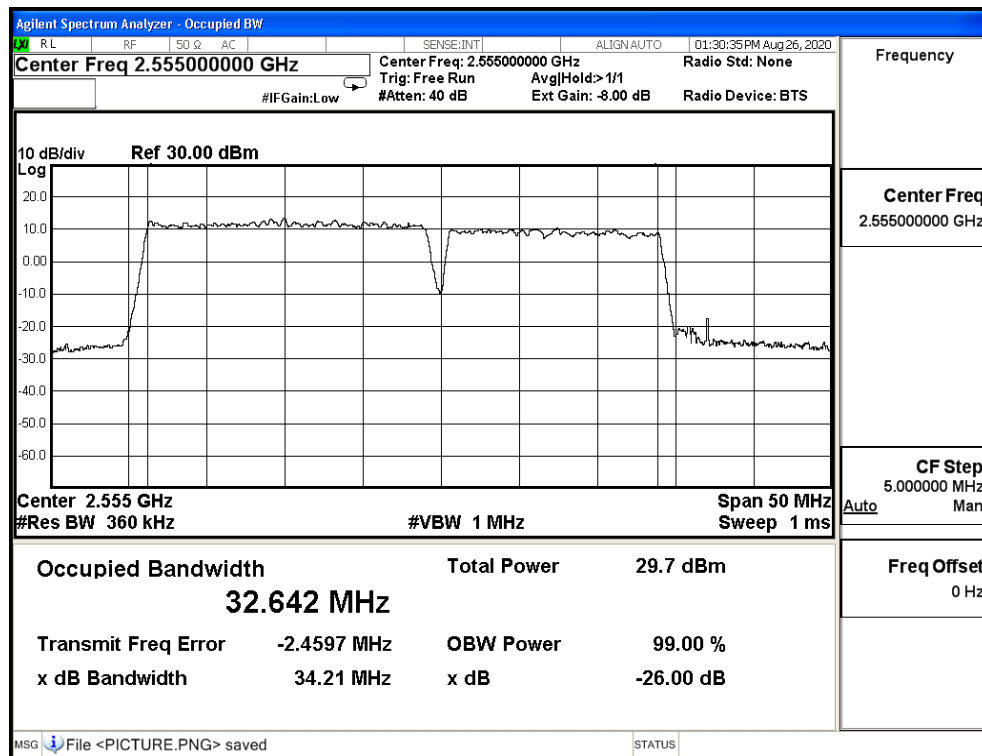
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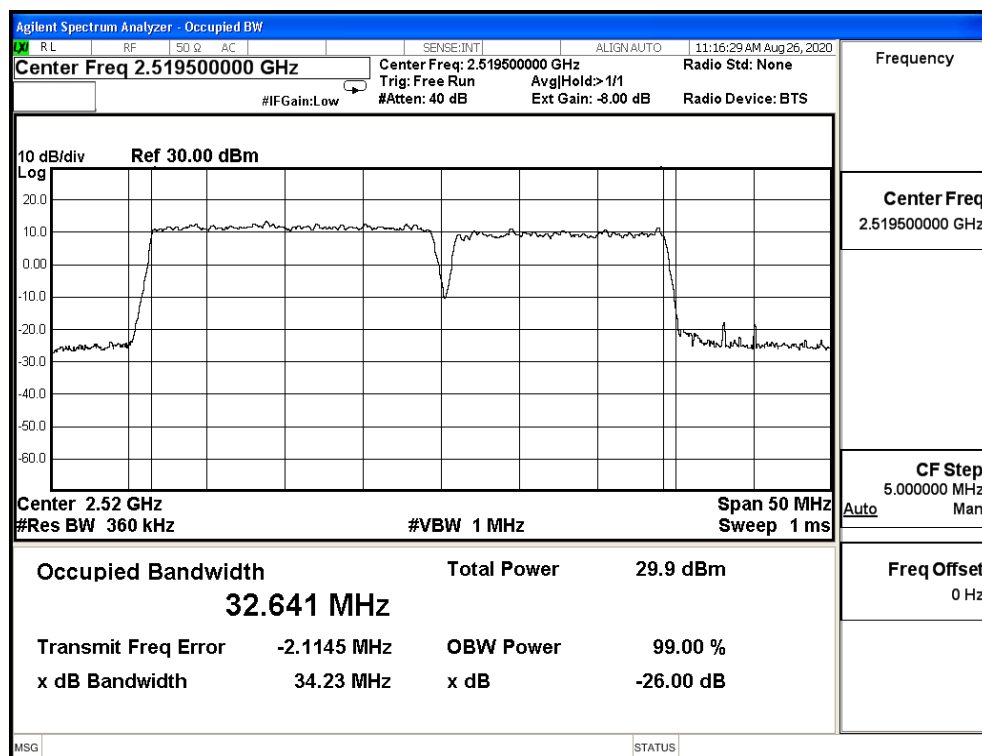
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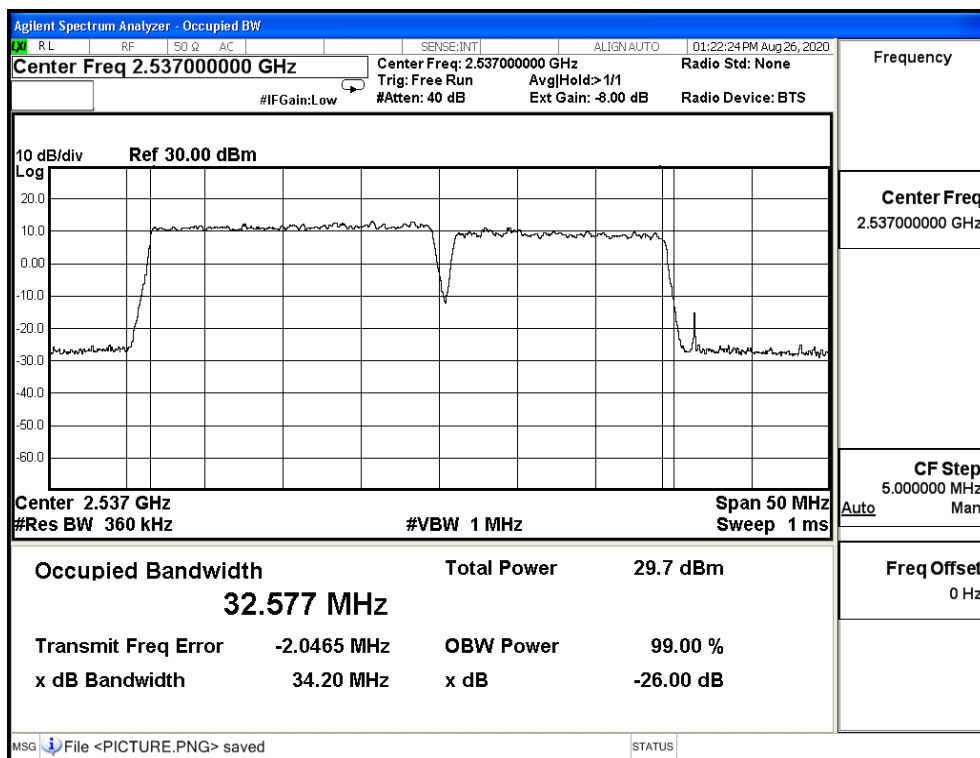
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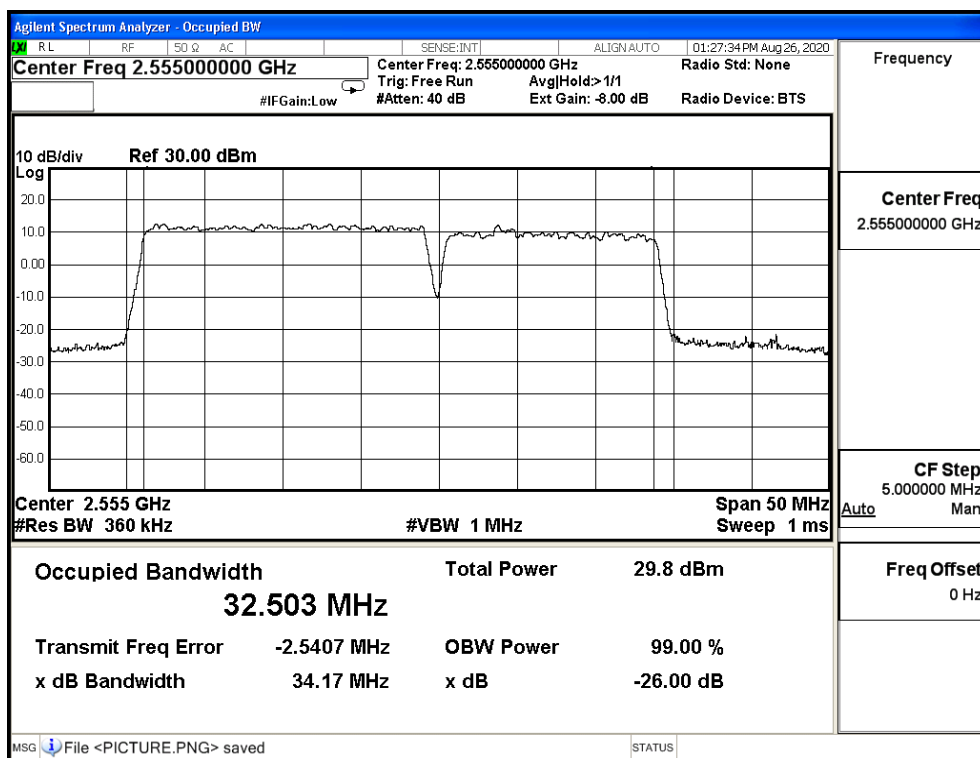
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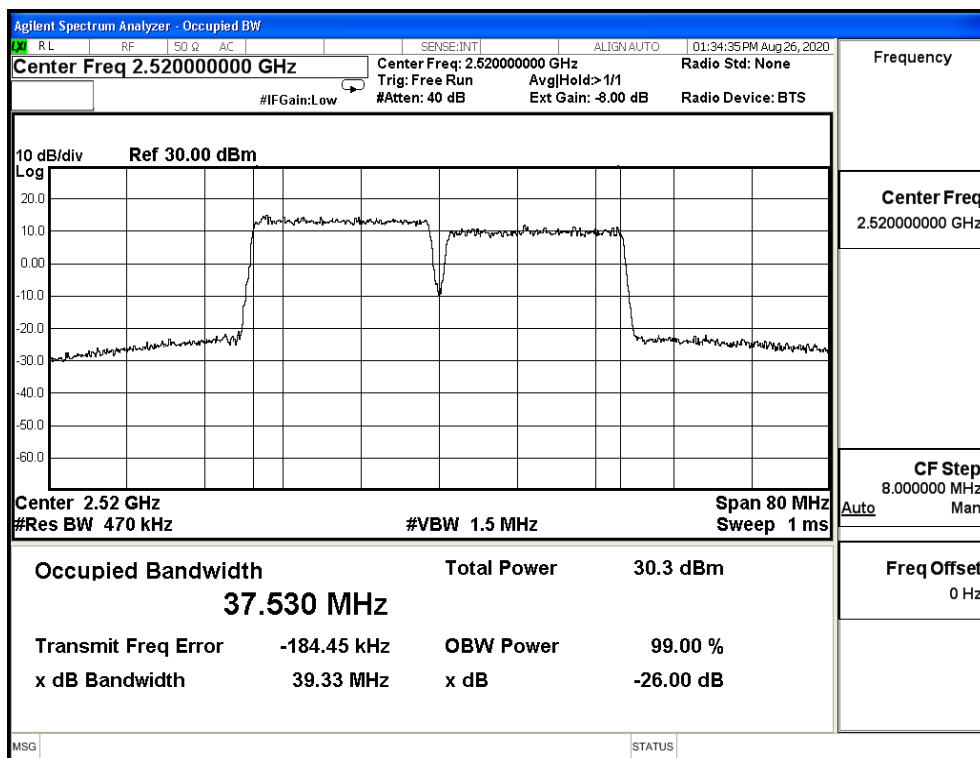
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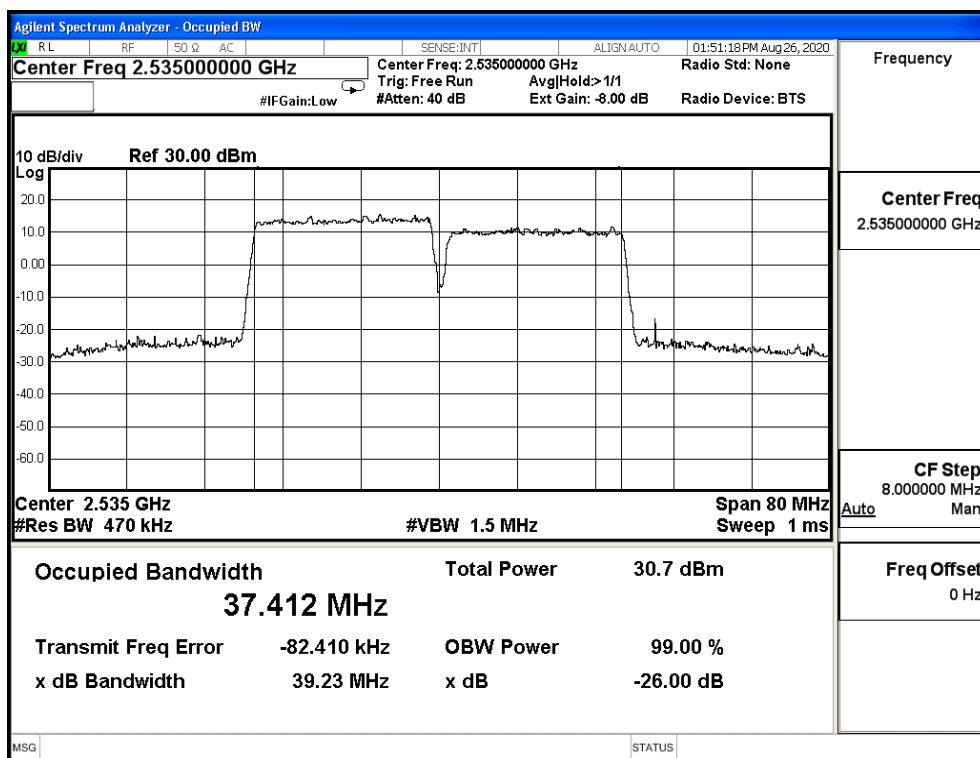
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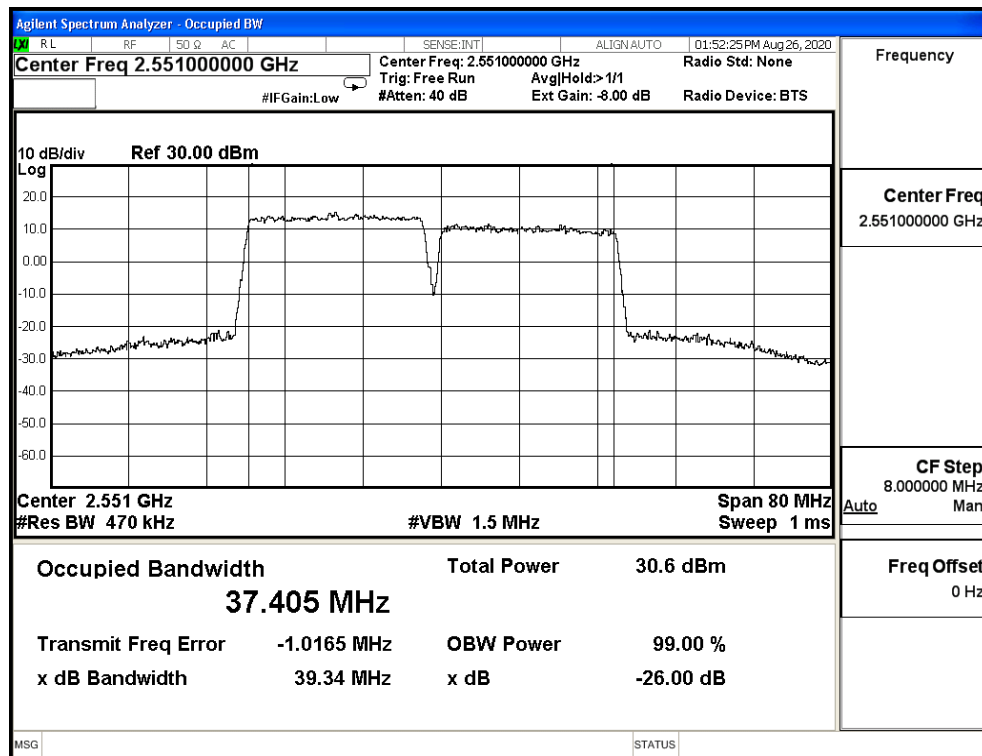
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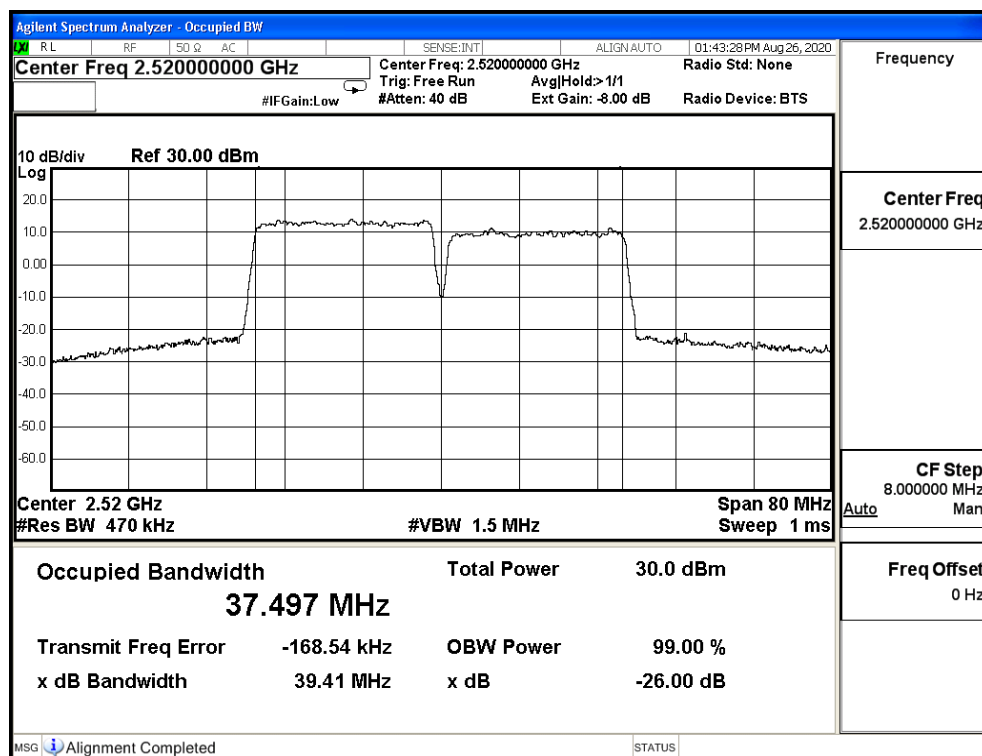
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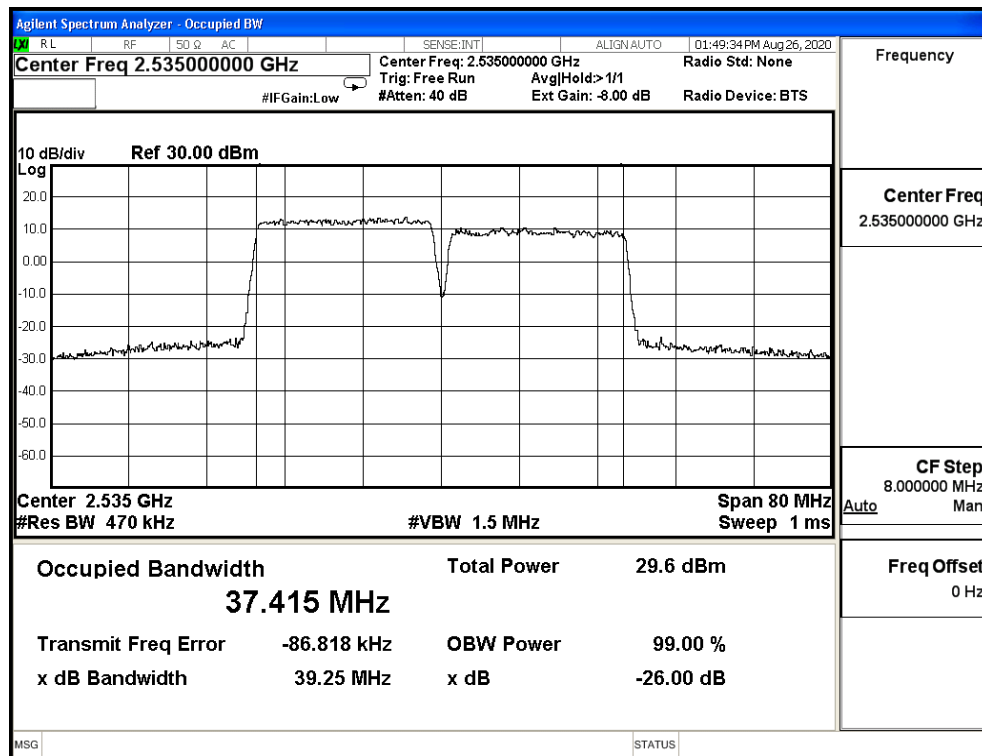
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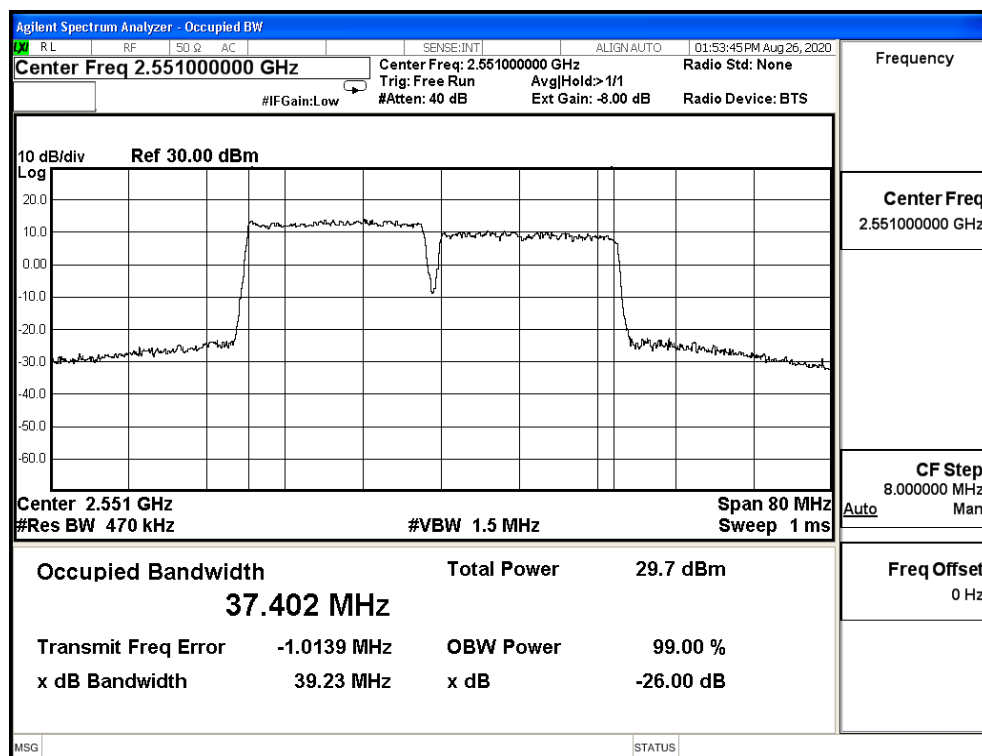
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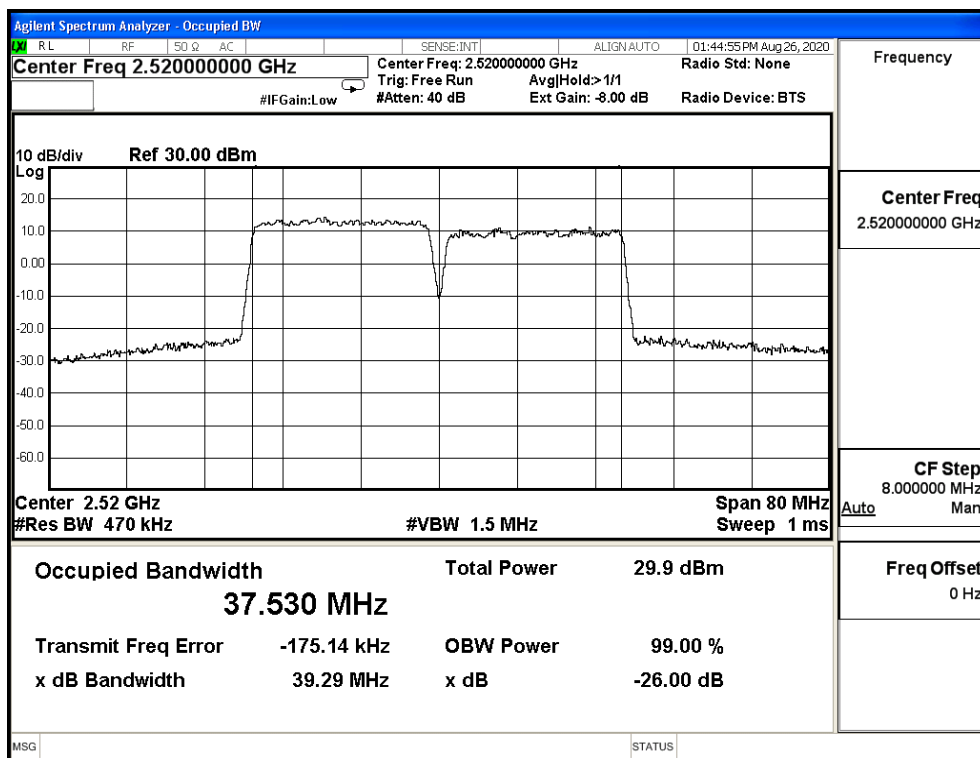
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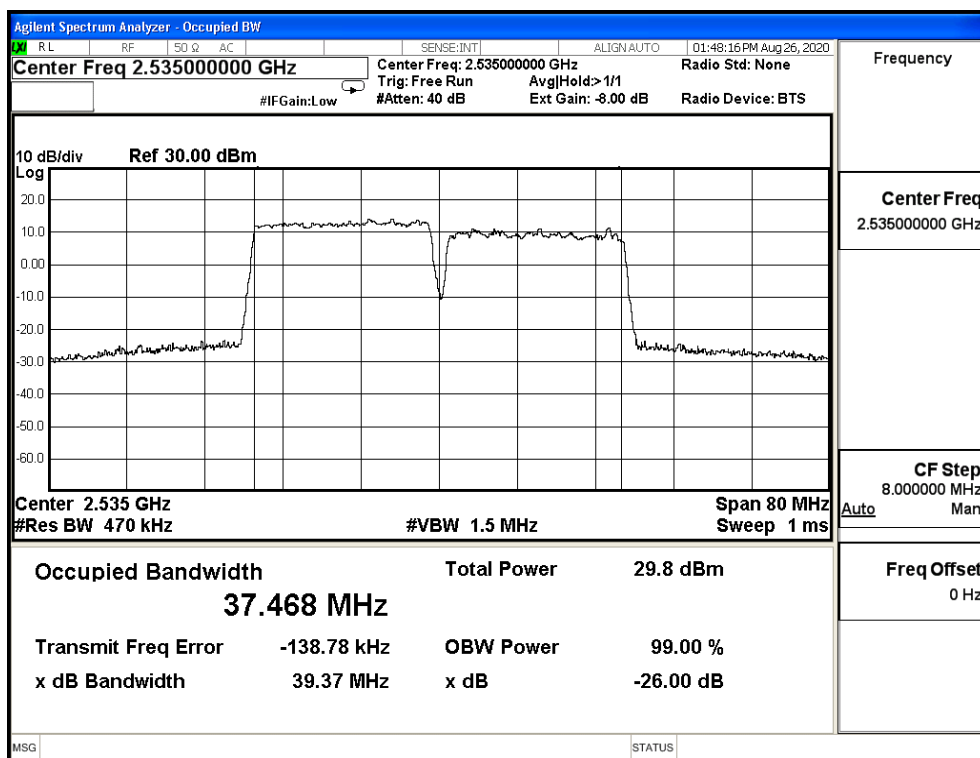
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