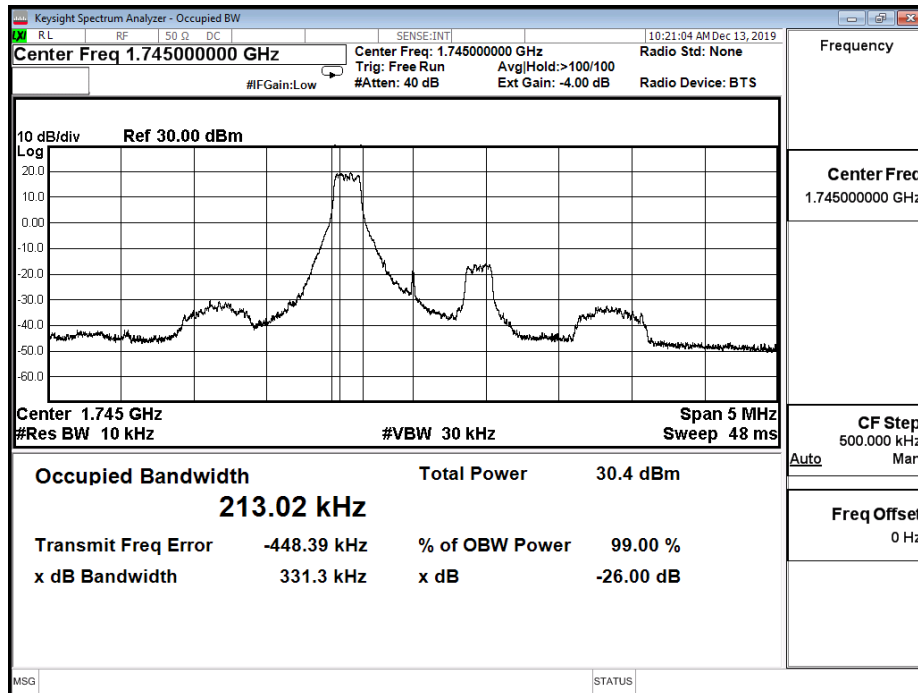
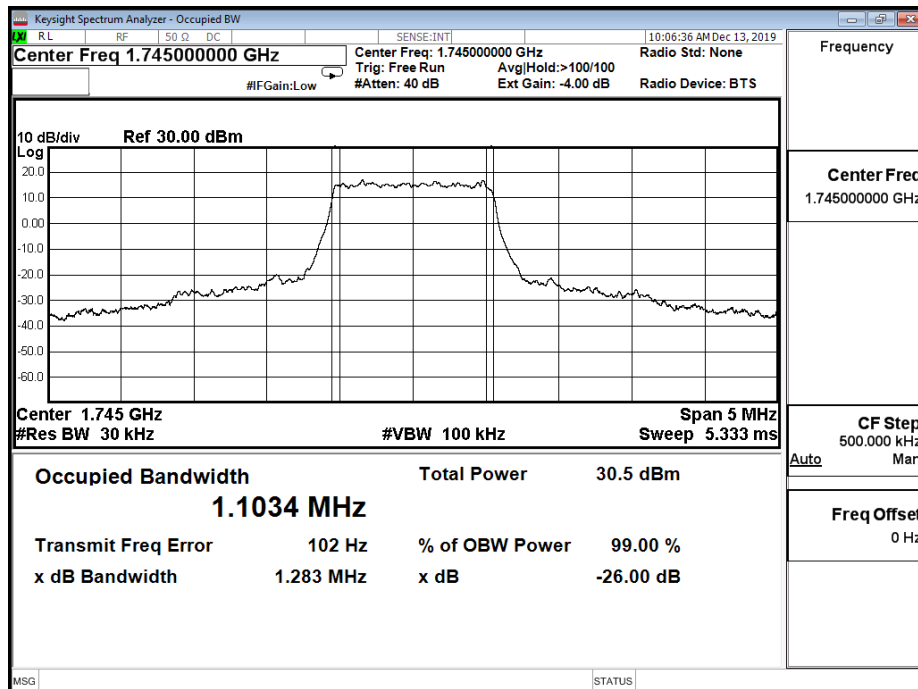


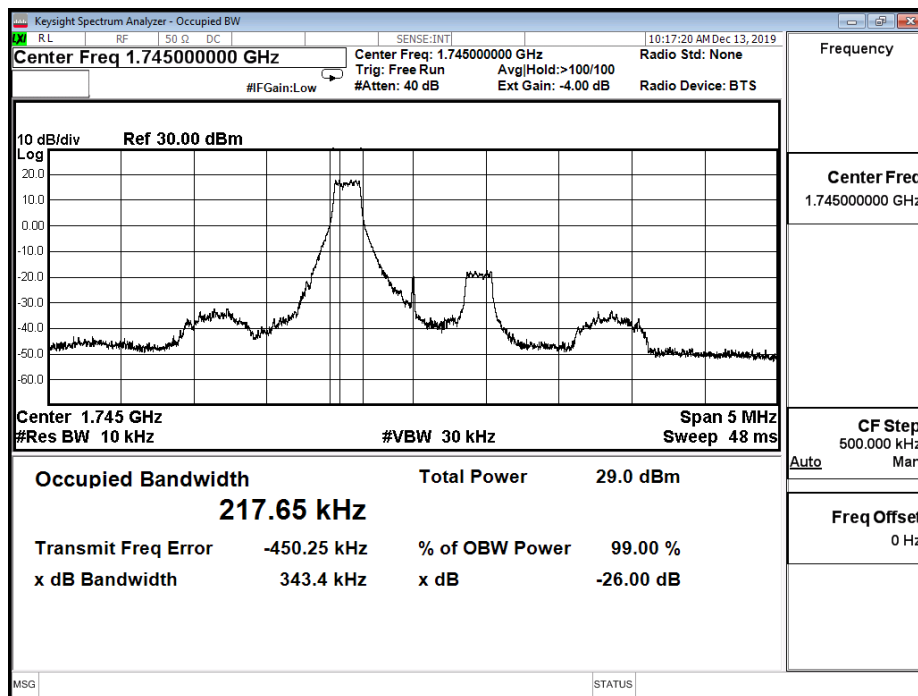
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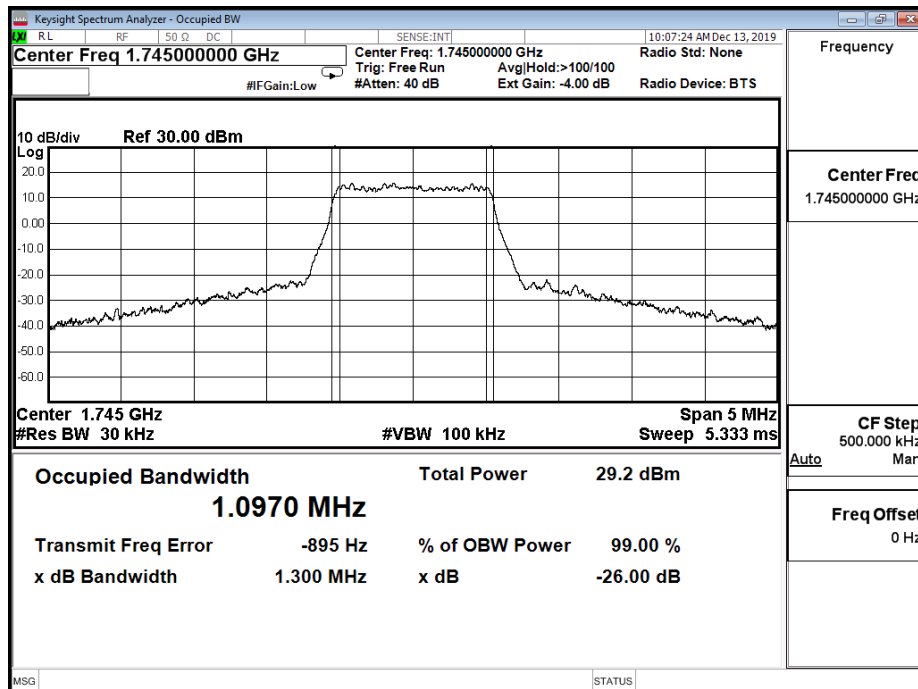
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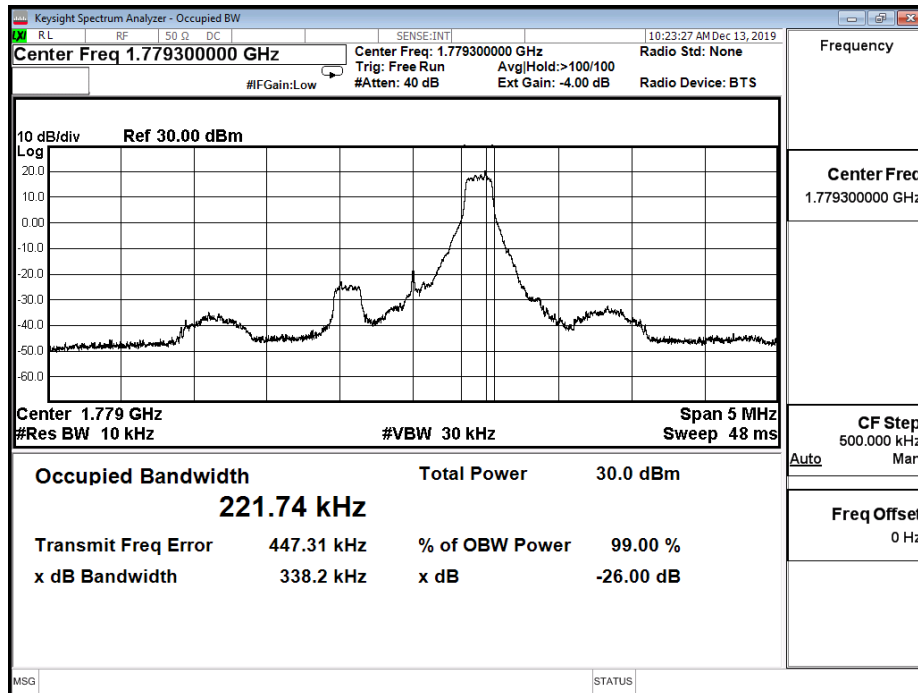
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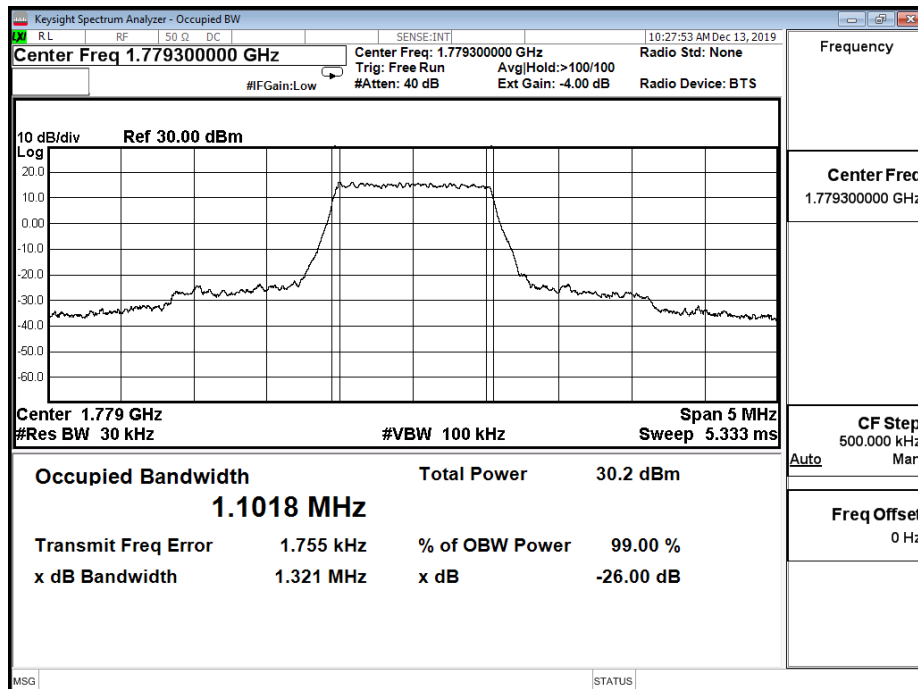
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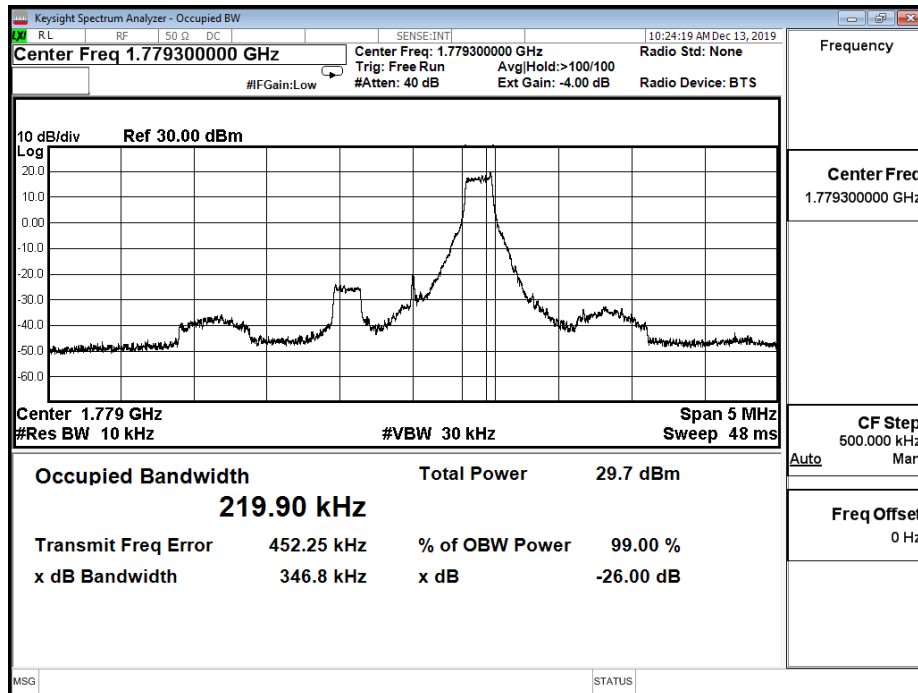
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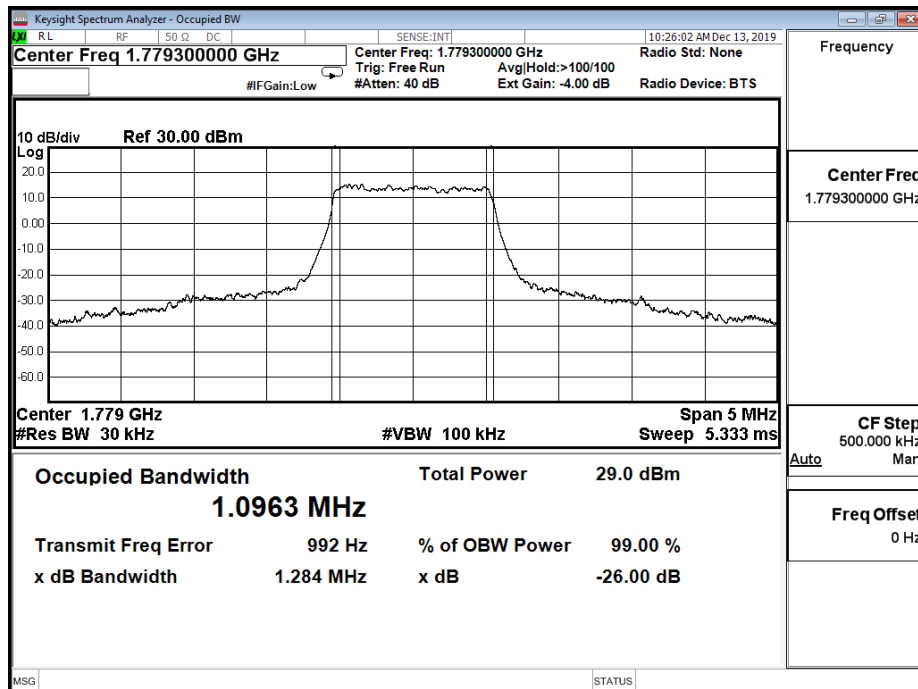
B66_CH132665_1.4M_QPSK_6RB0



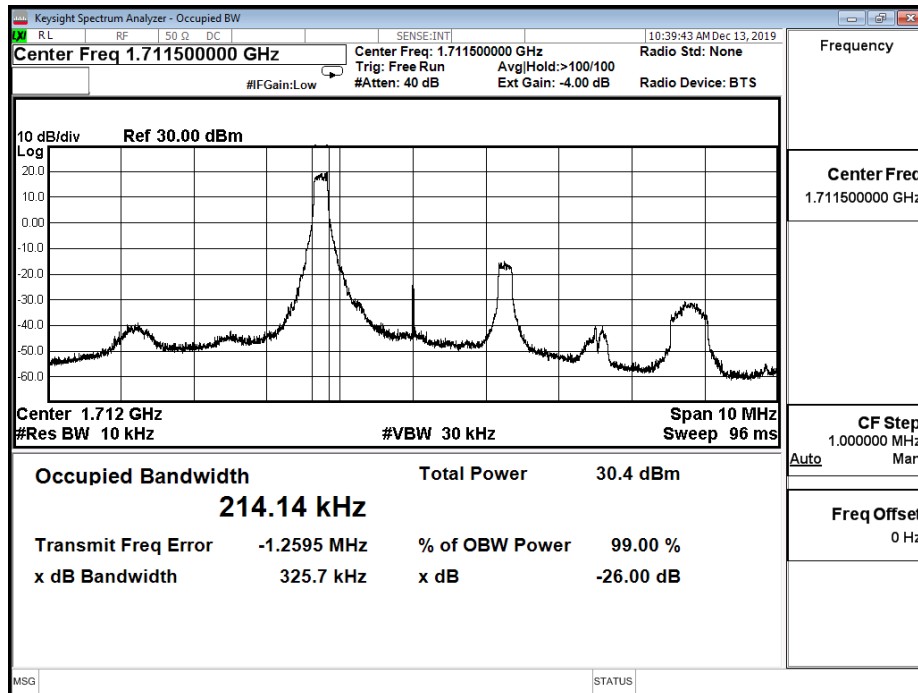
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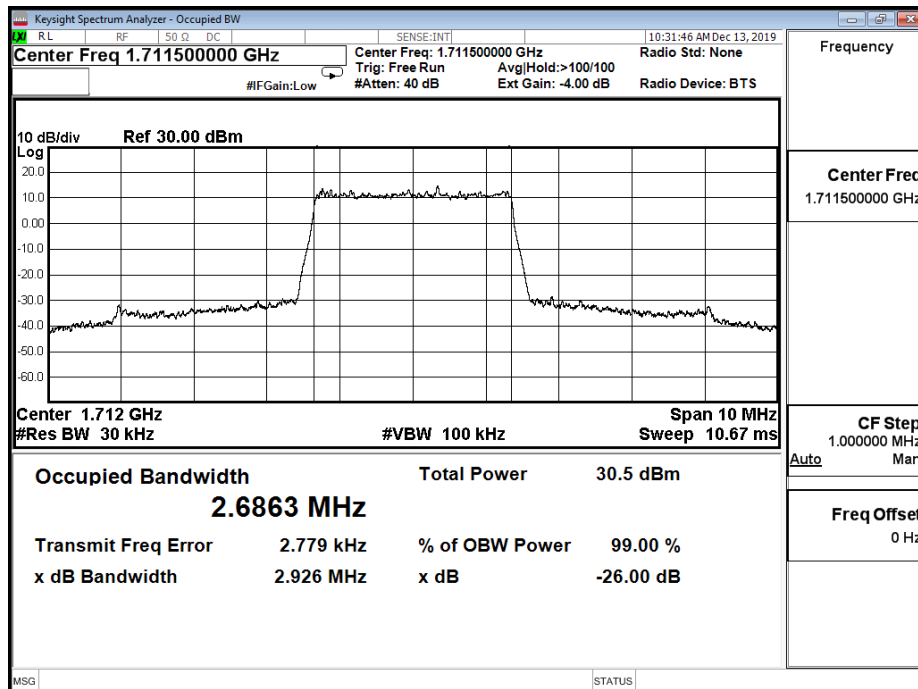
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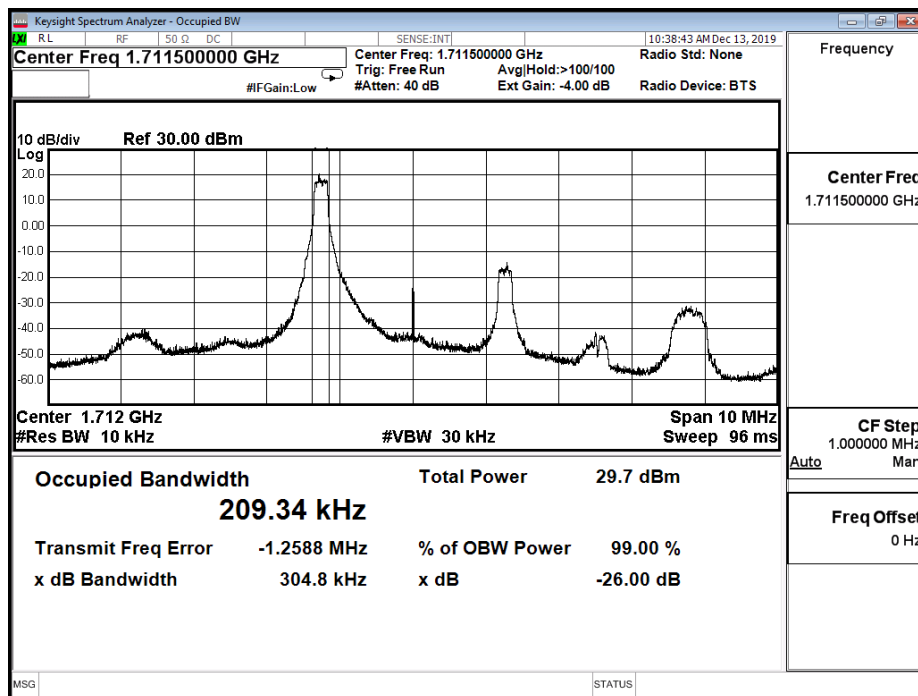
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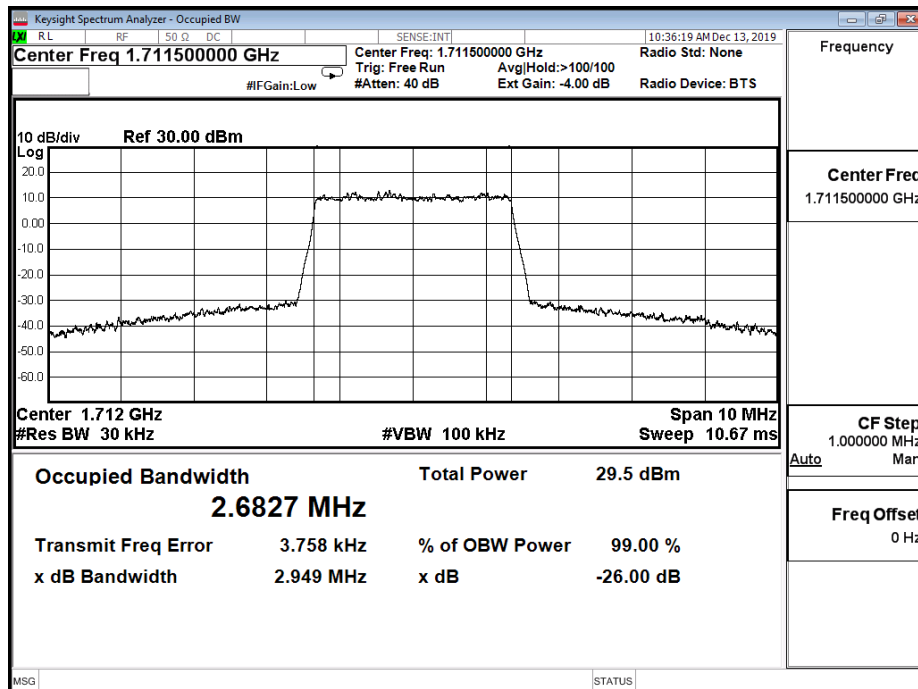
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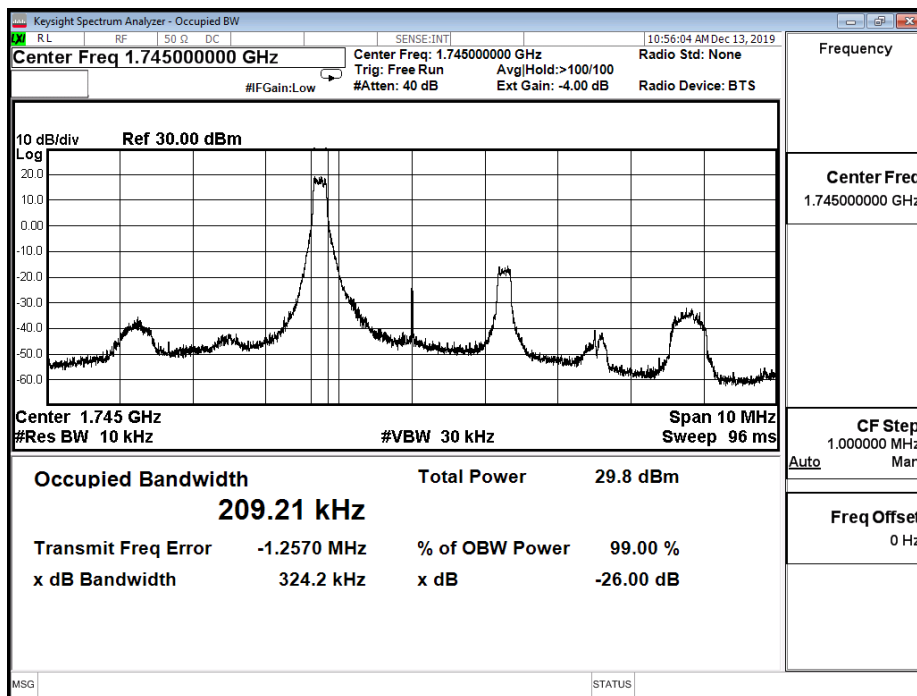
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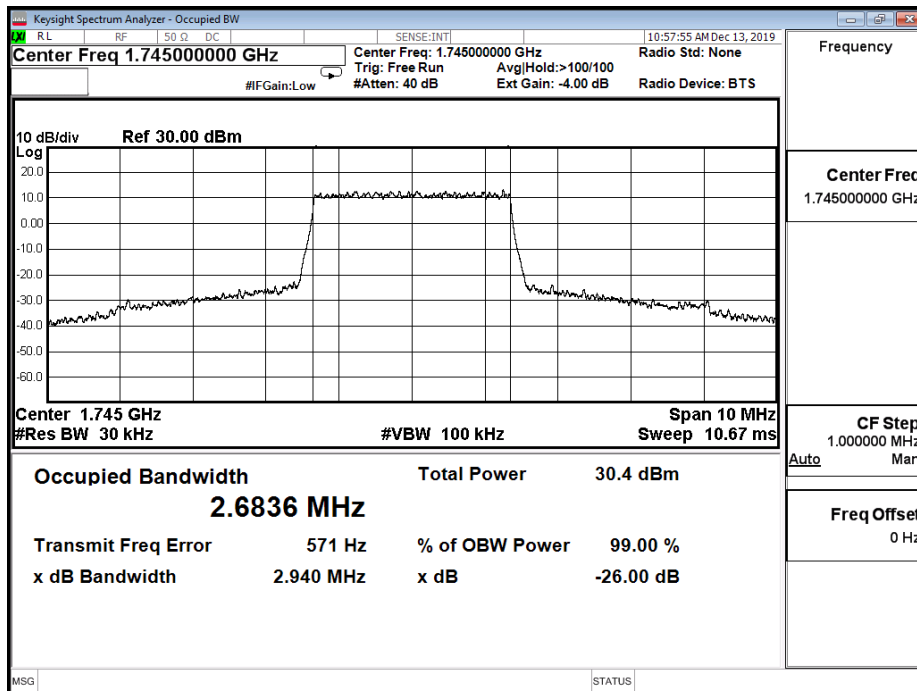
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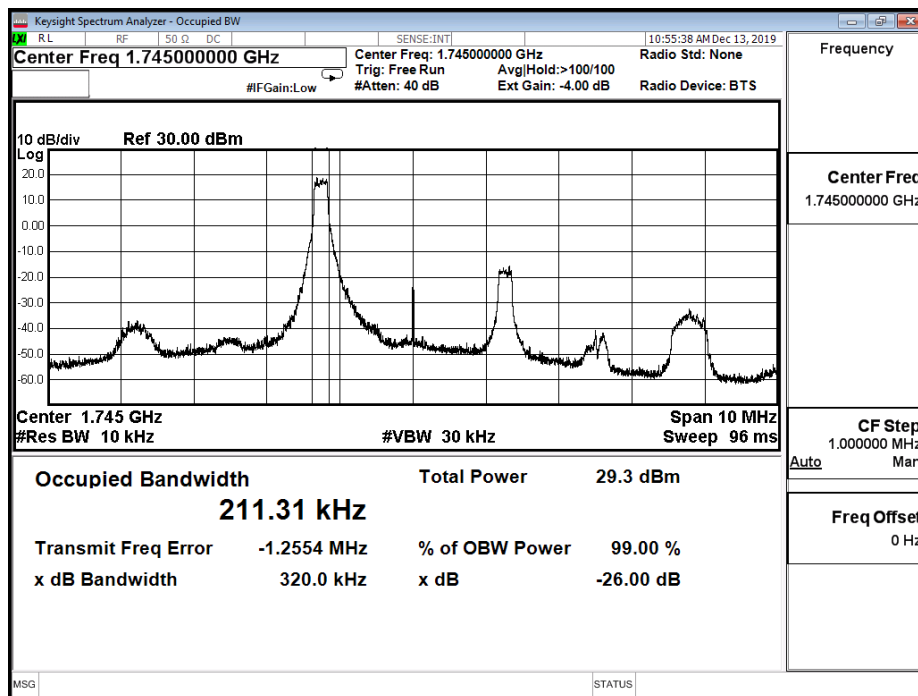
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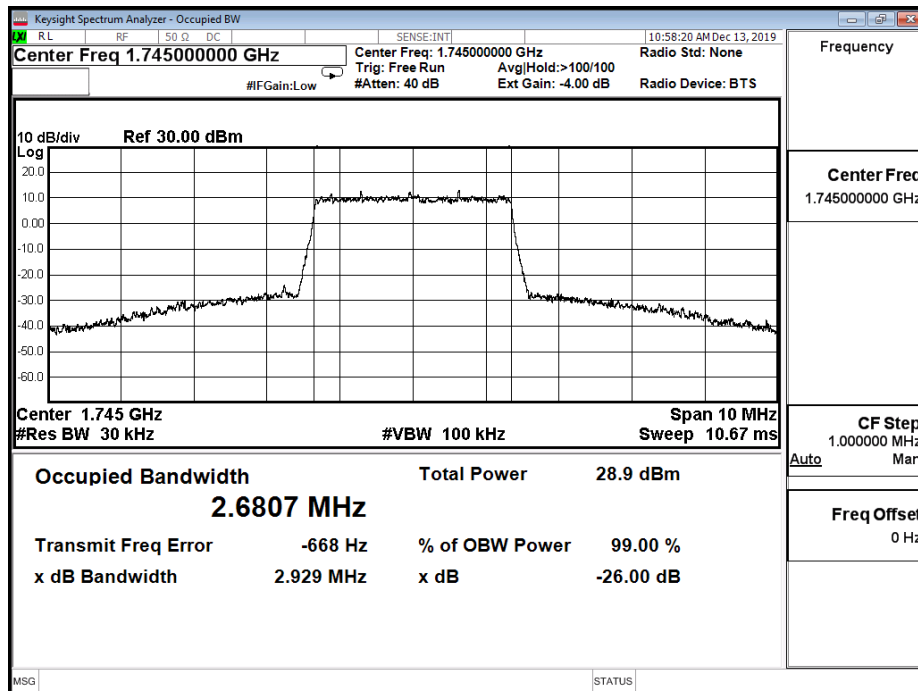
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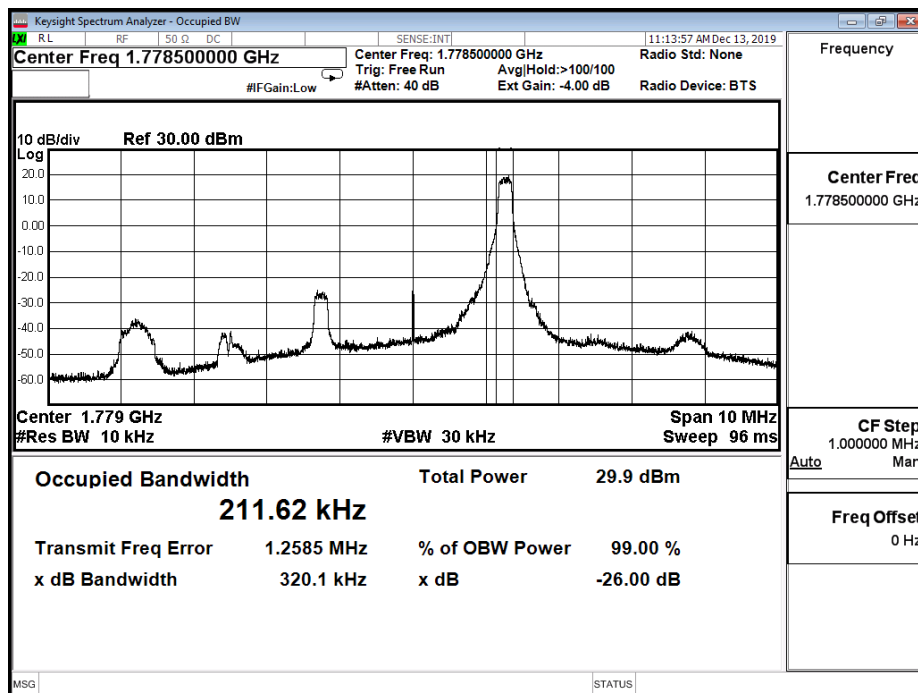
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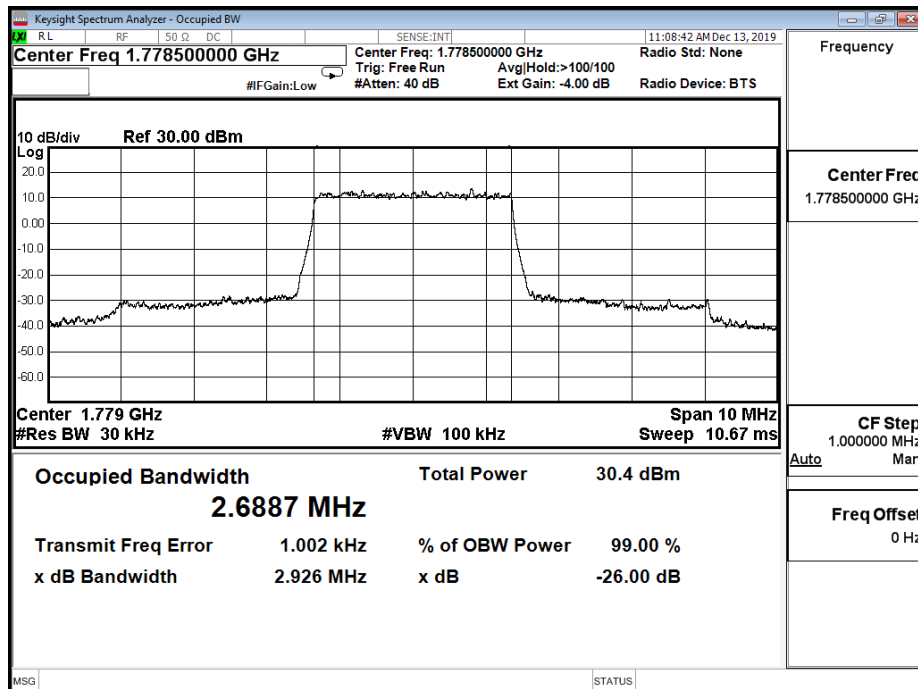
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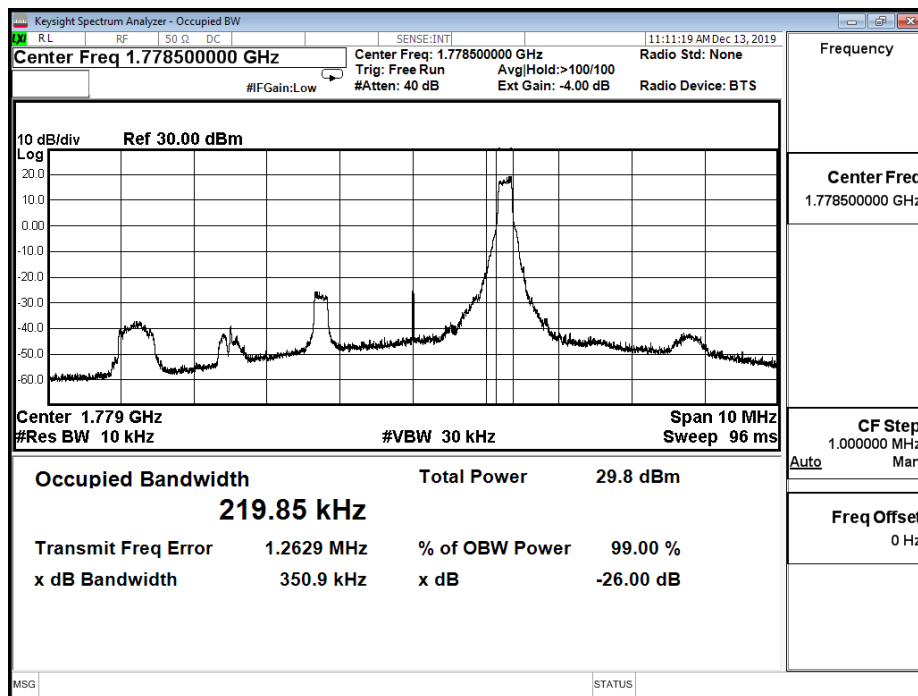
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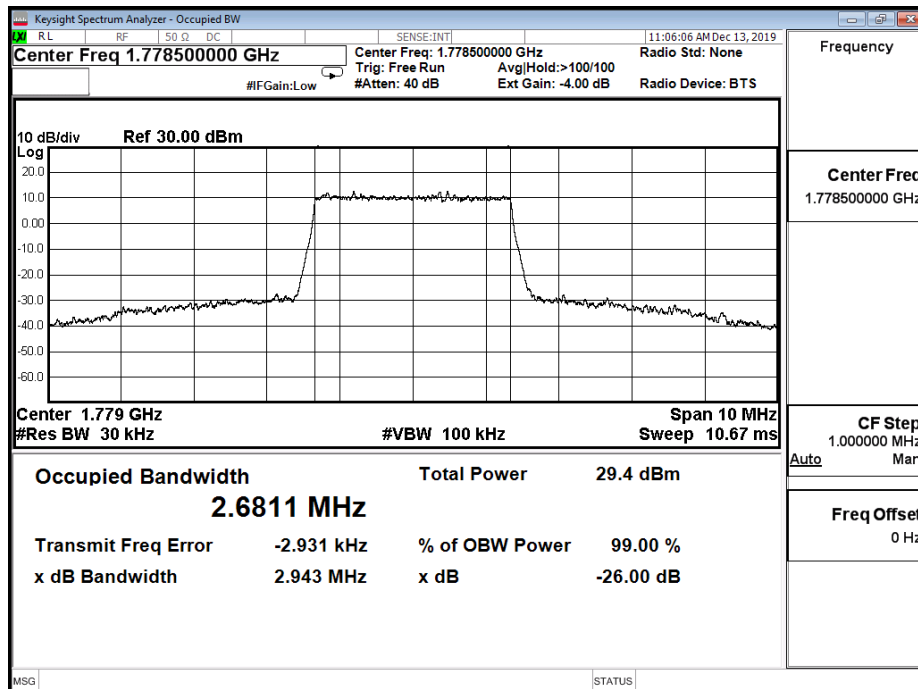
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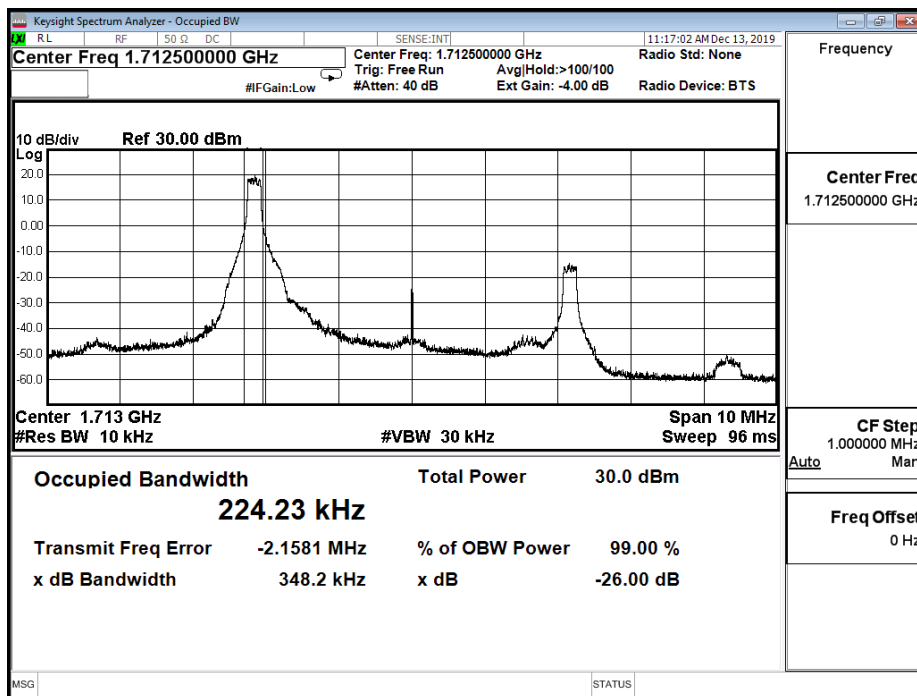
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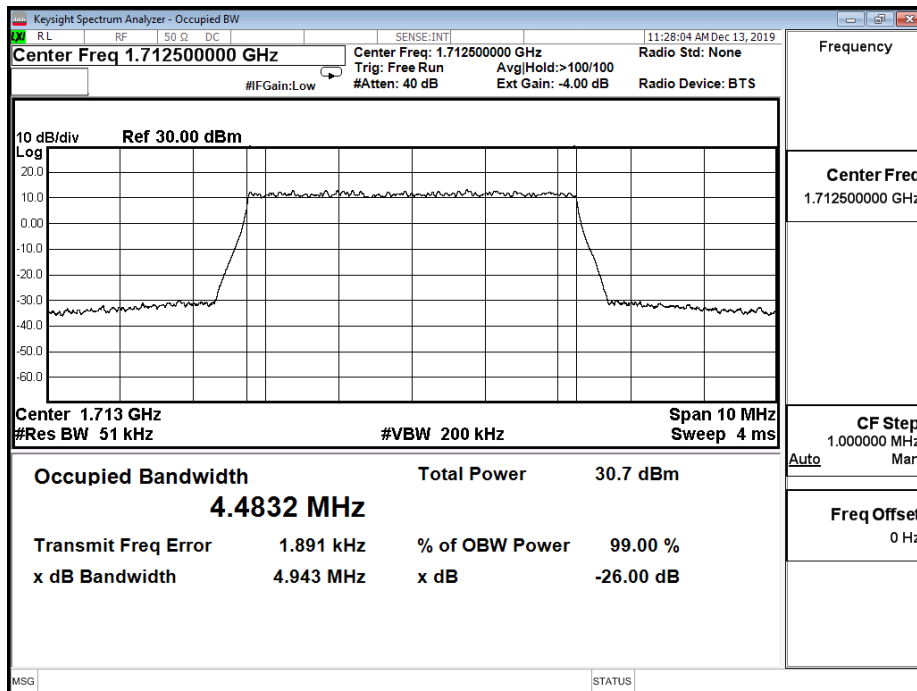
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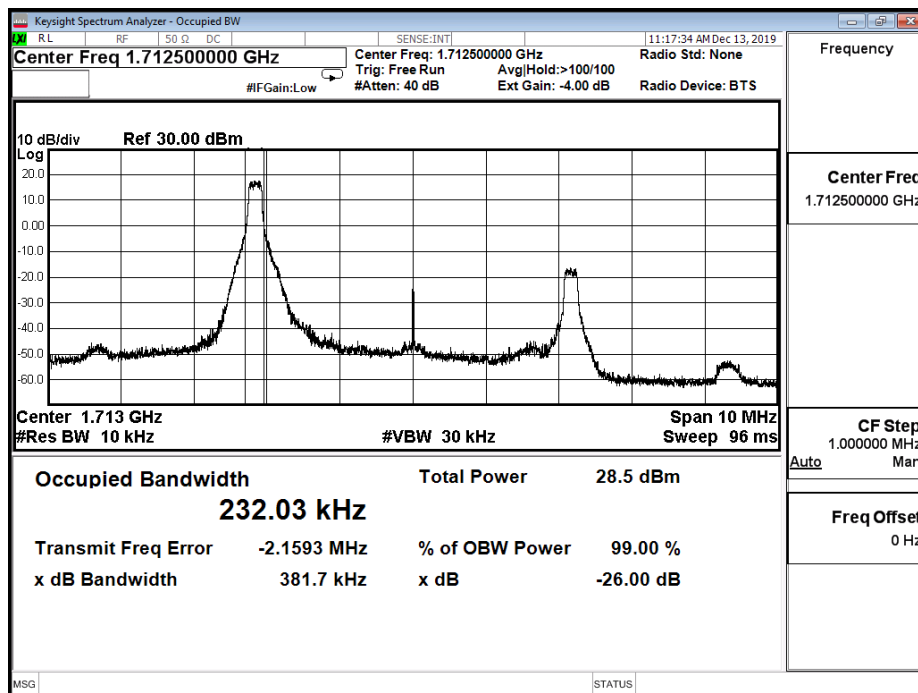
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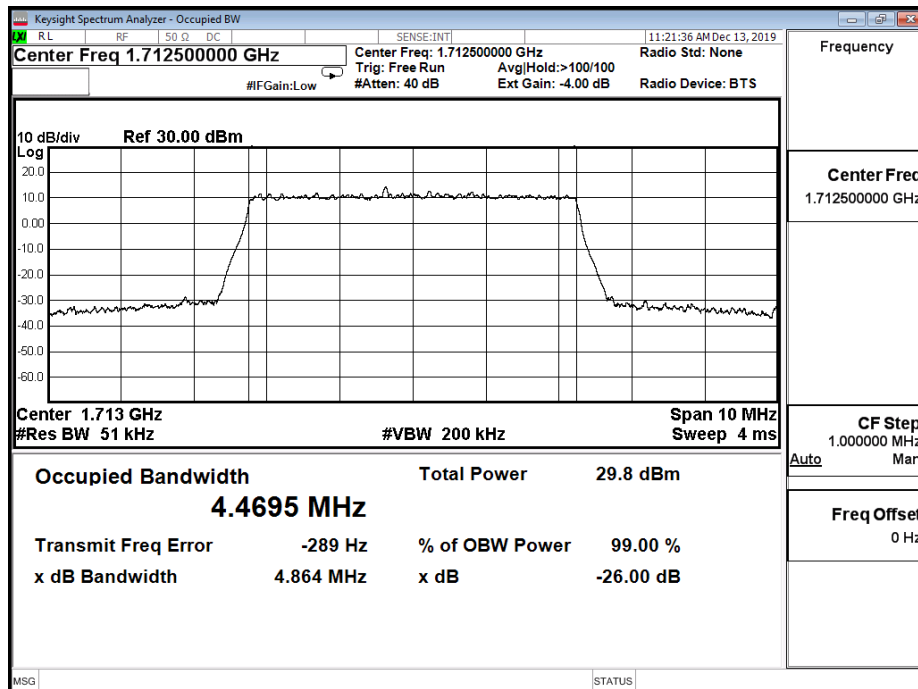
B66_CH131997_5M_QPSK_25RB0



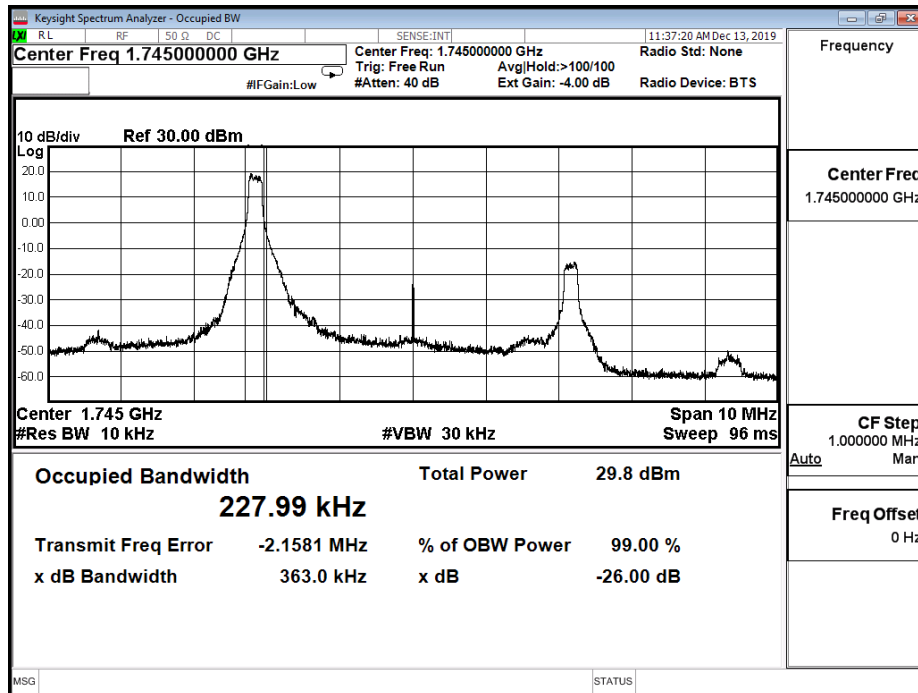
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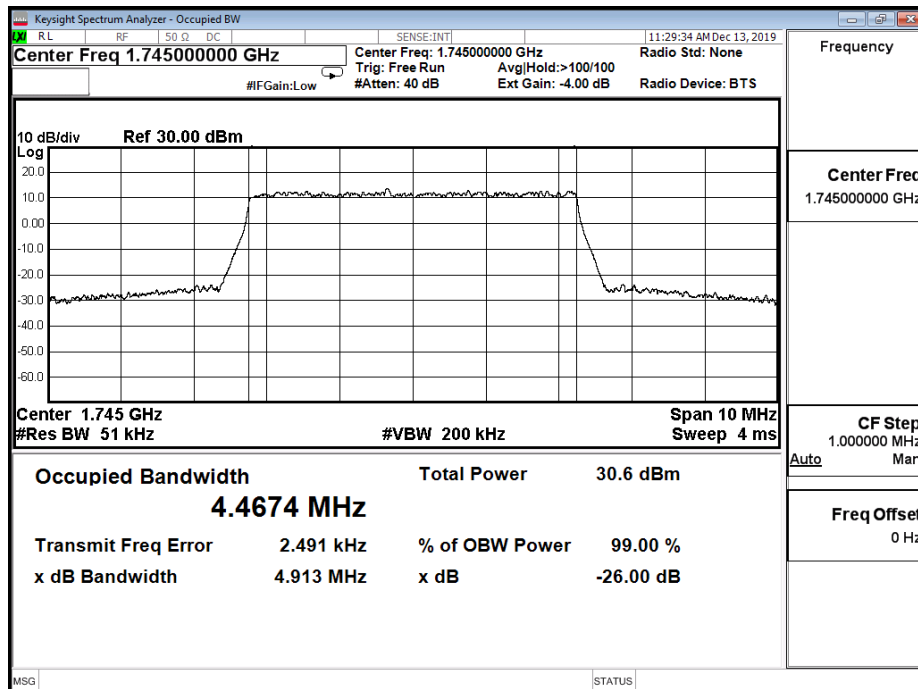
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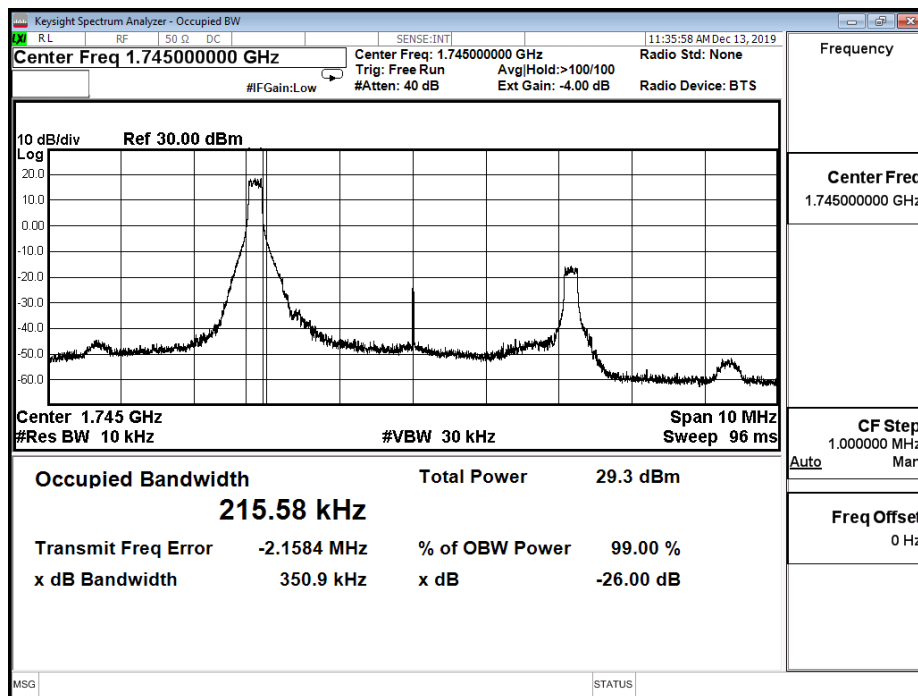
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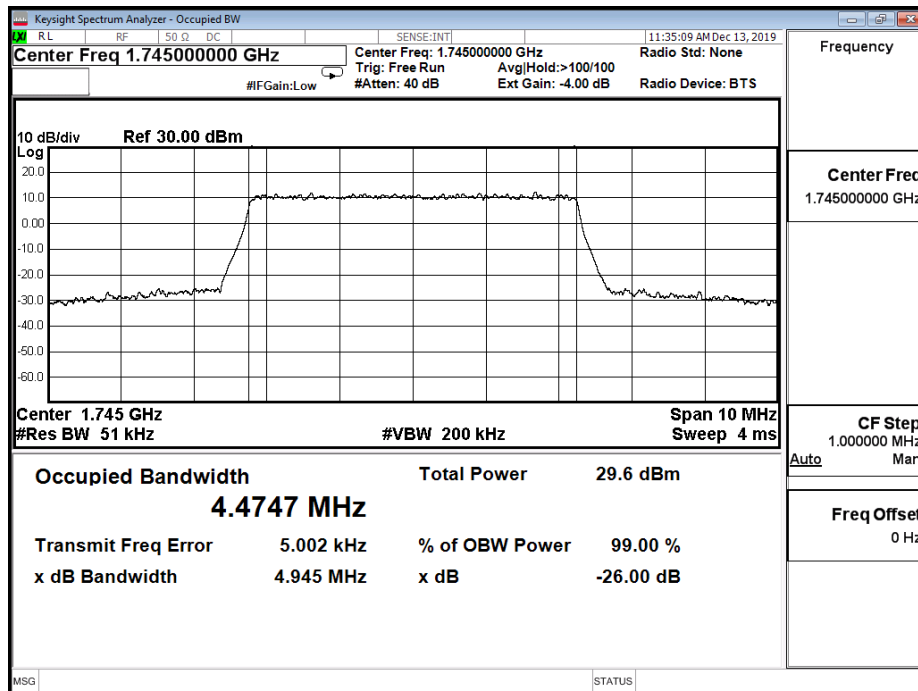
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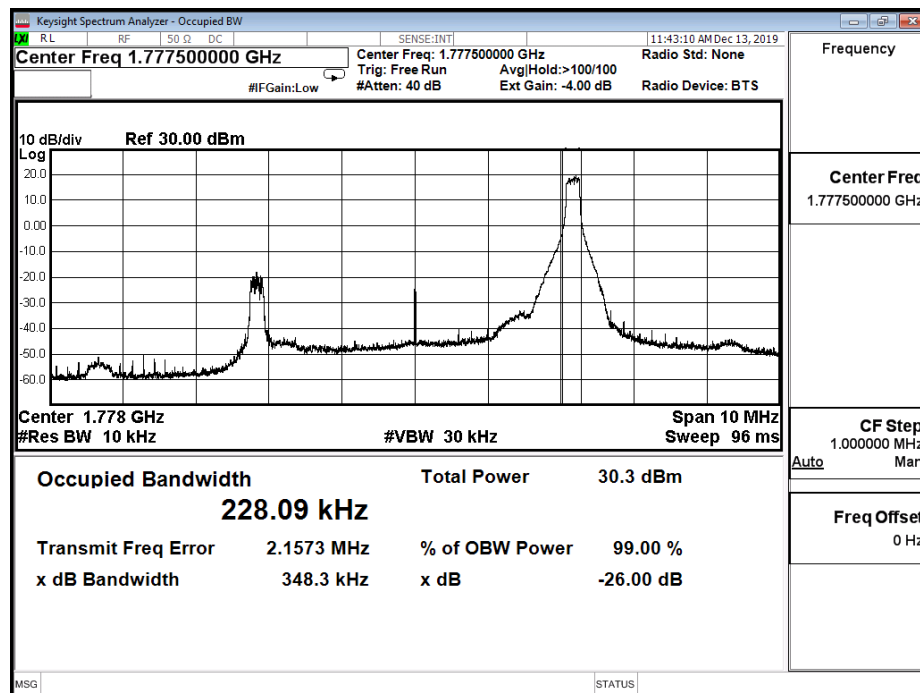
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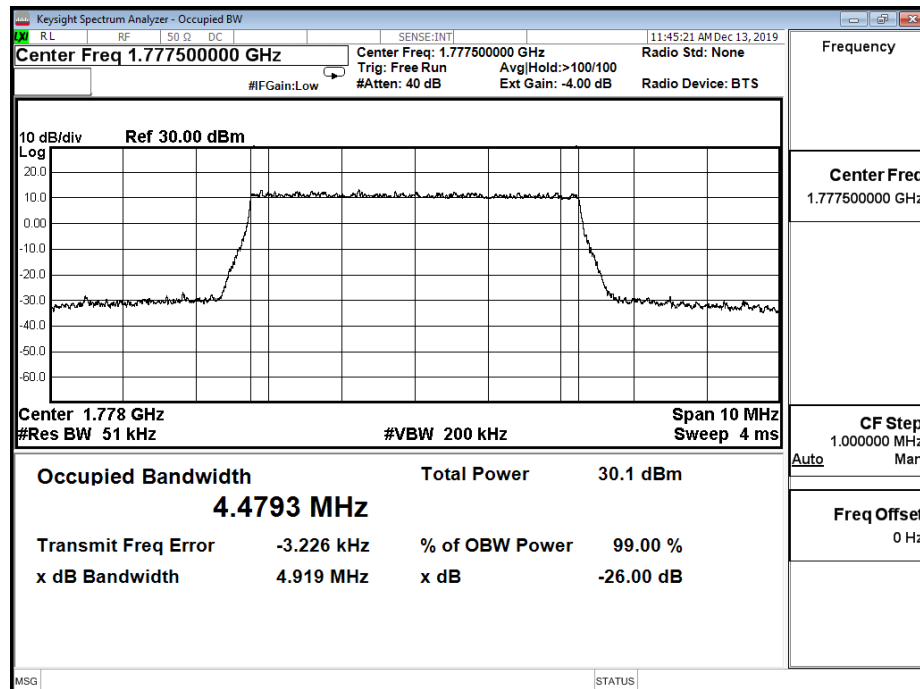
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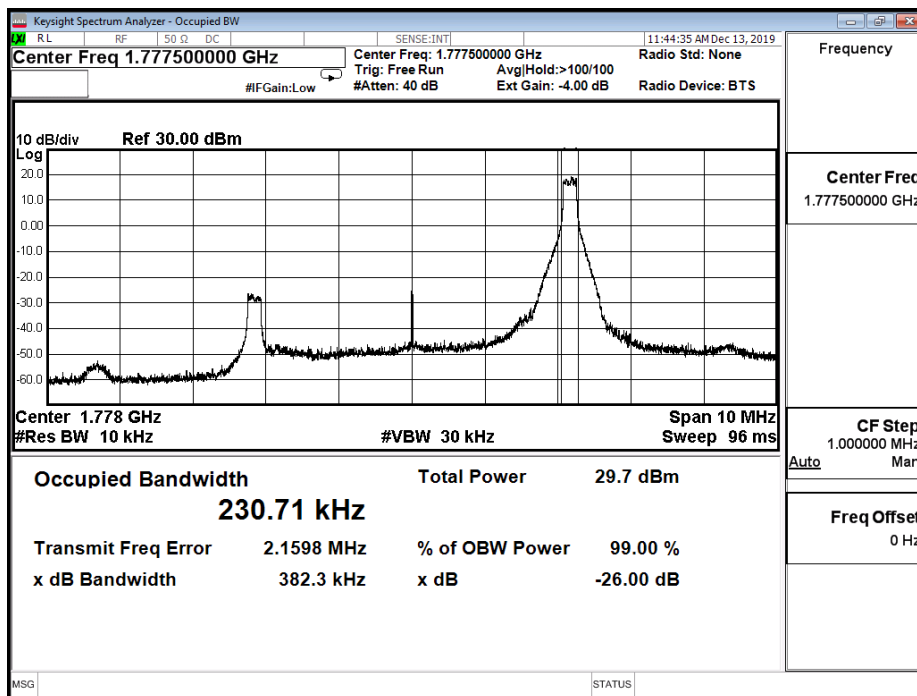
B66_CH132647_5M_QPSK_1RB24



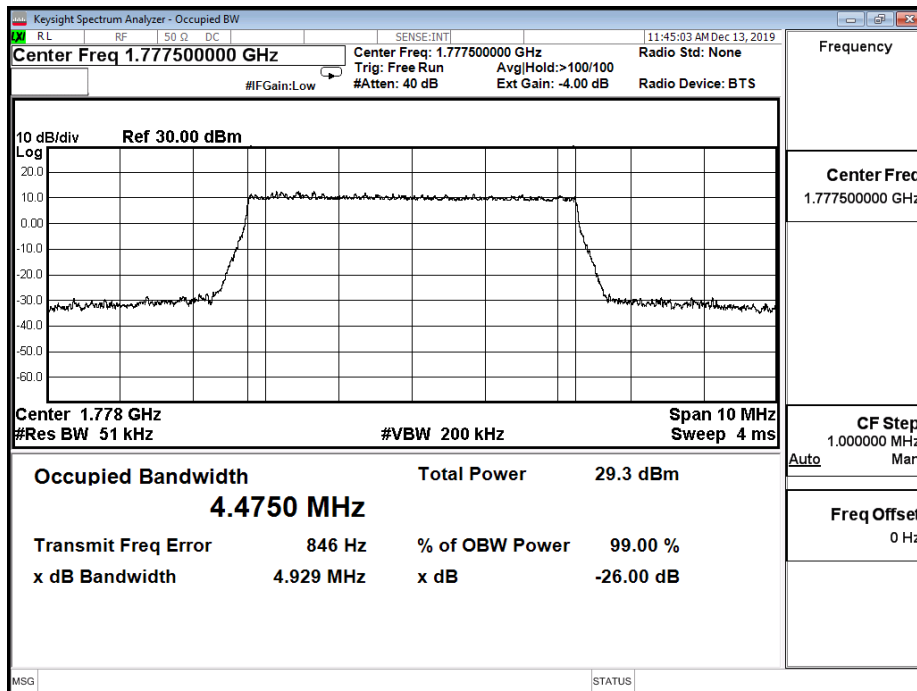
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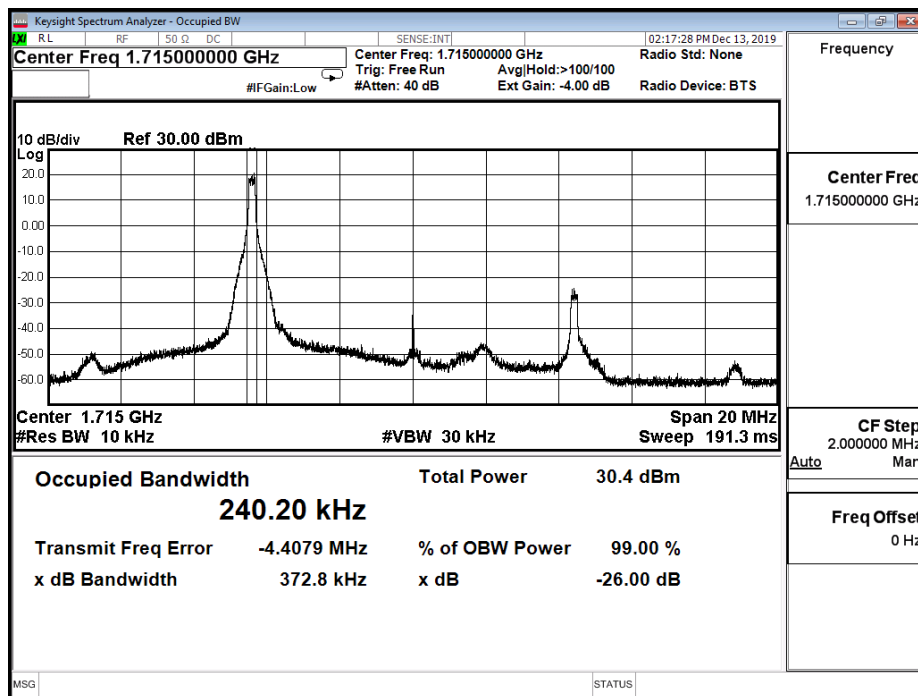
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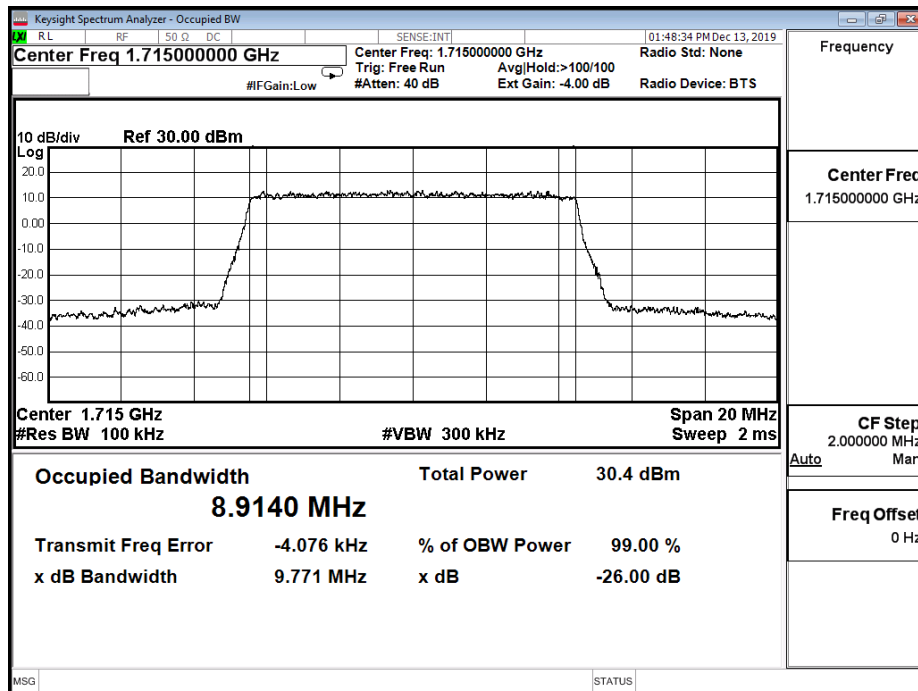
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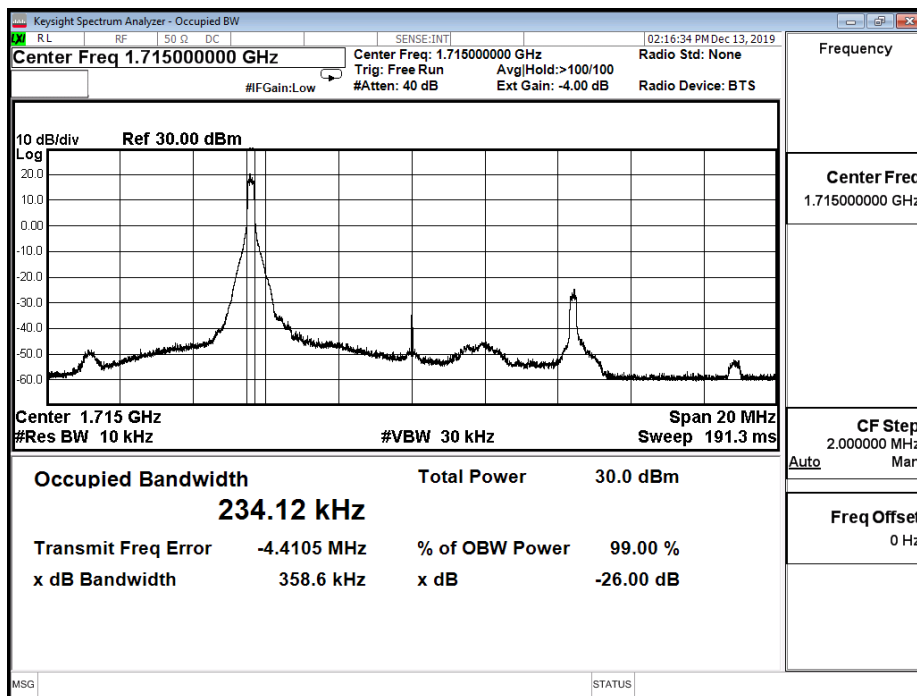
B66_CH132022_10M_QPSK_1RB0



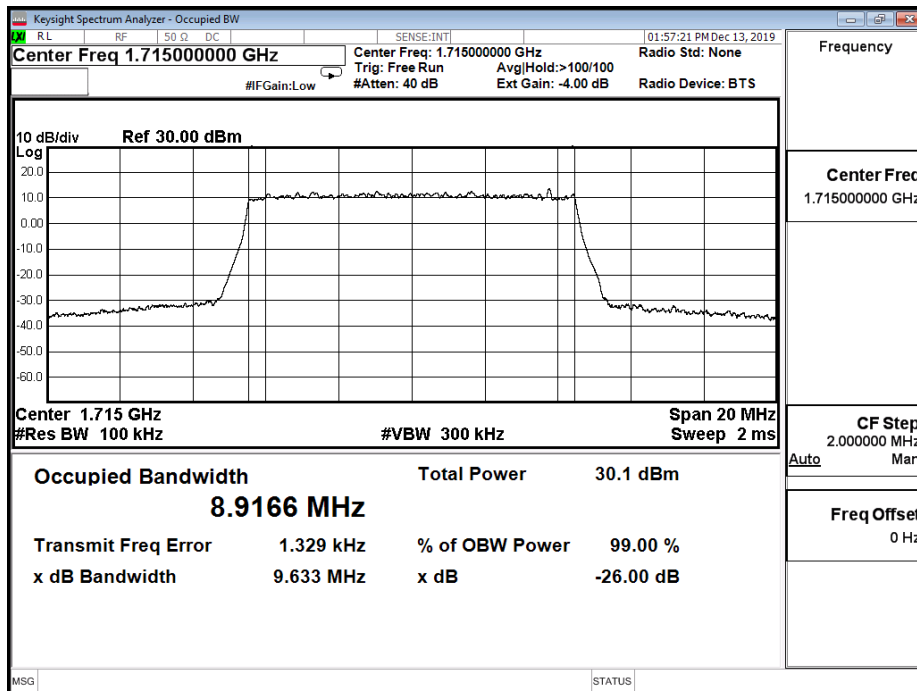
B66_CH132022_10M_QPSK_50RB0



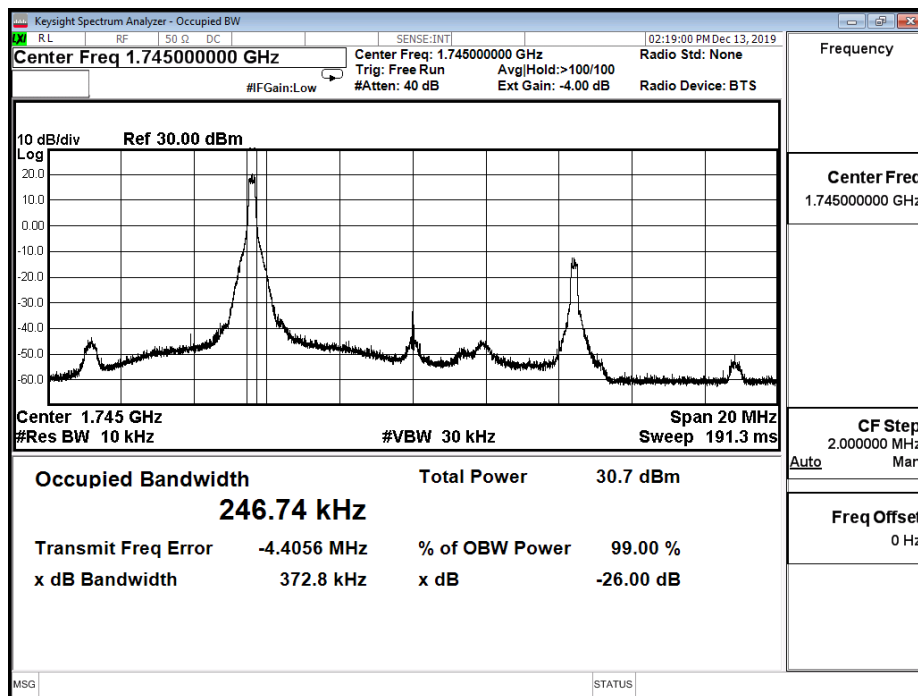
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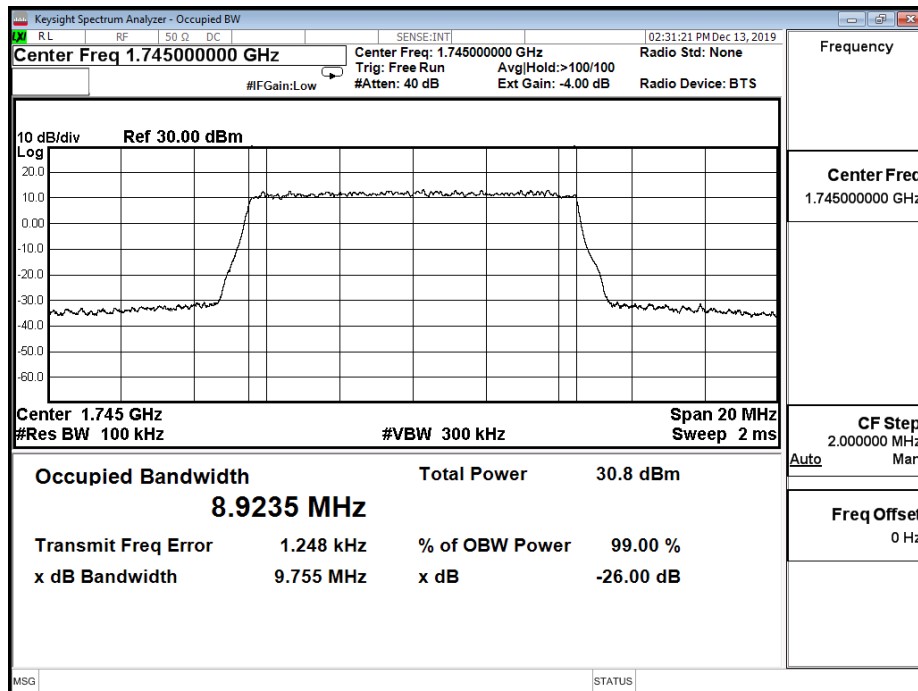
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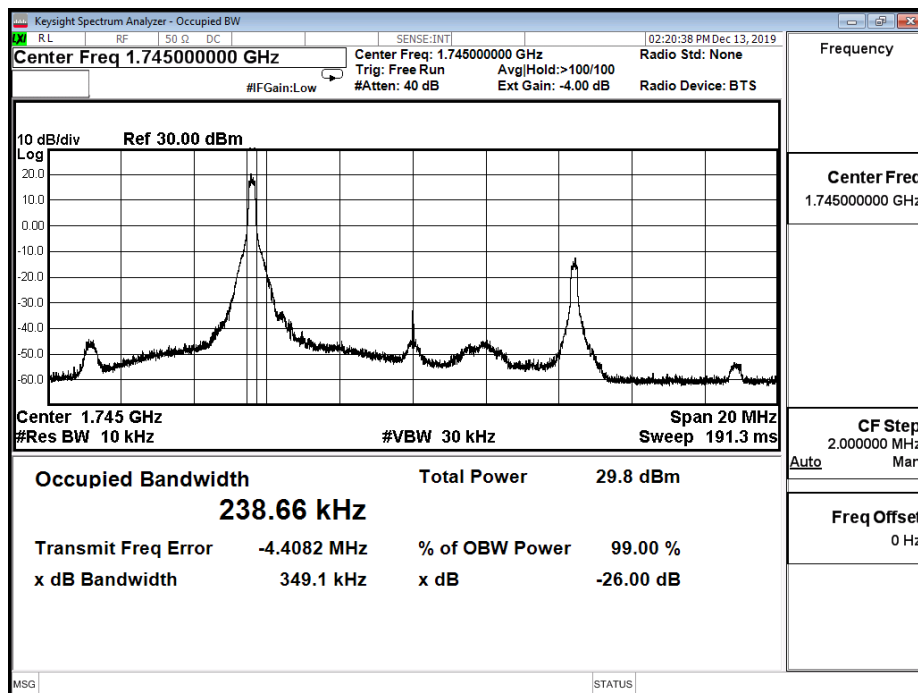
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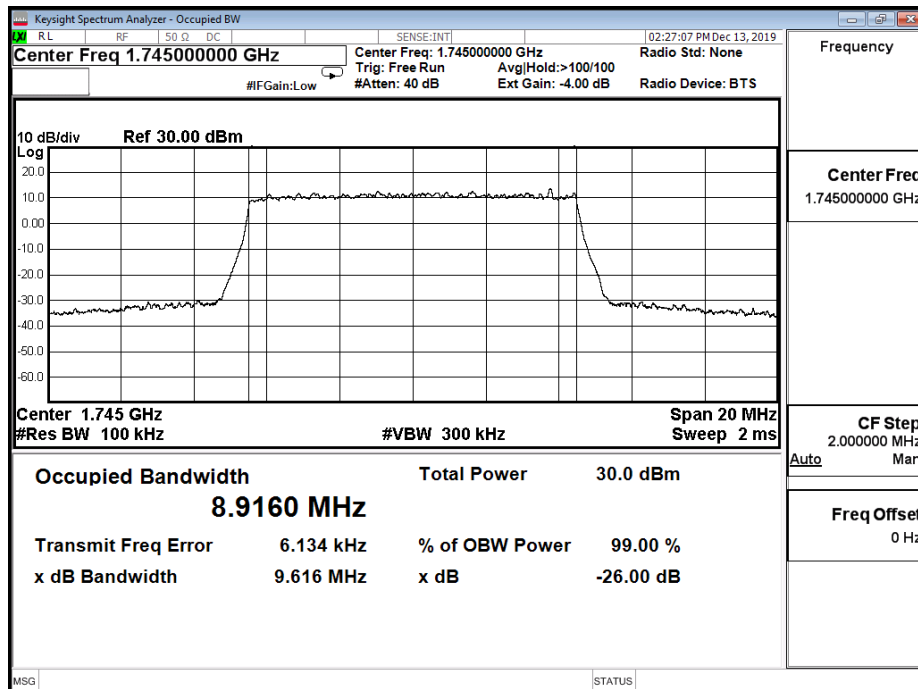
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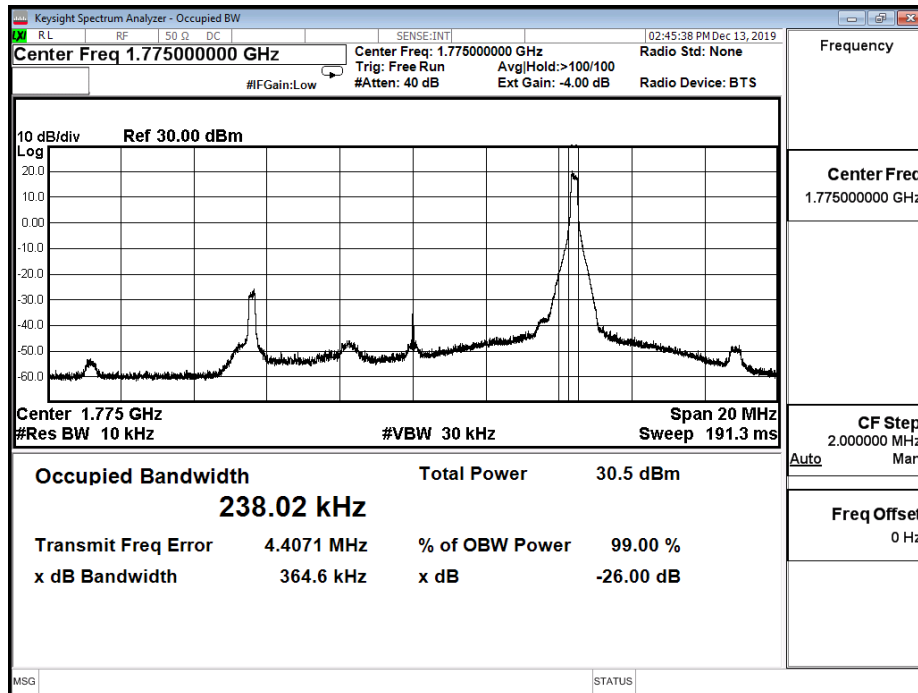
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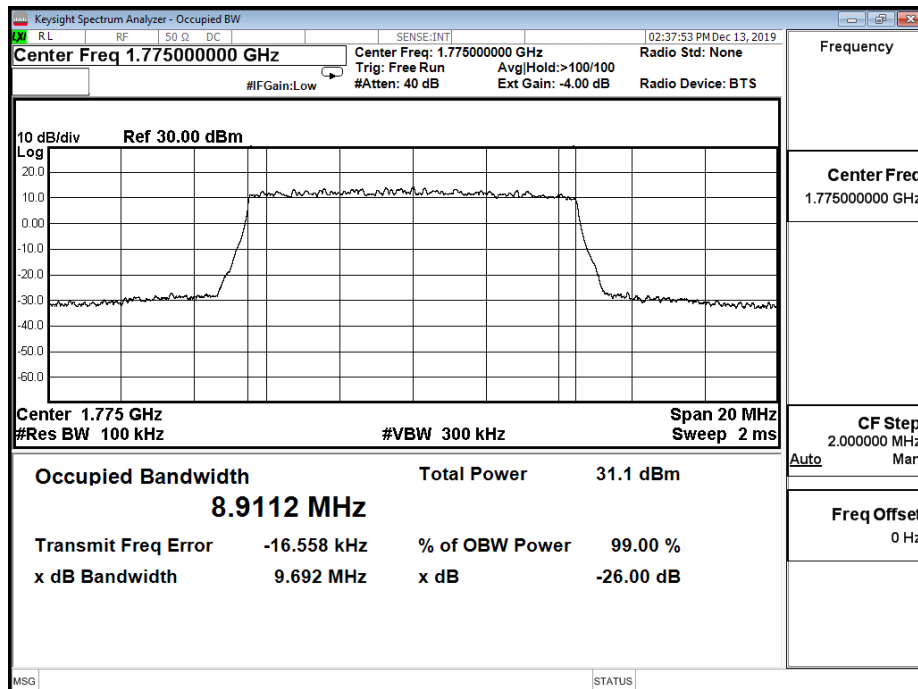
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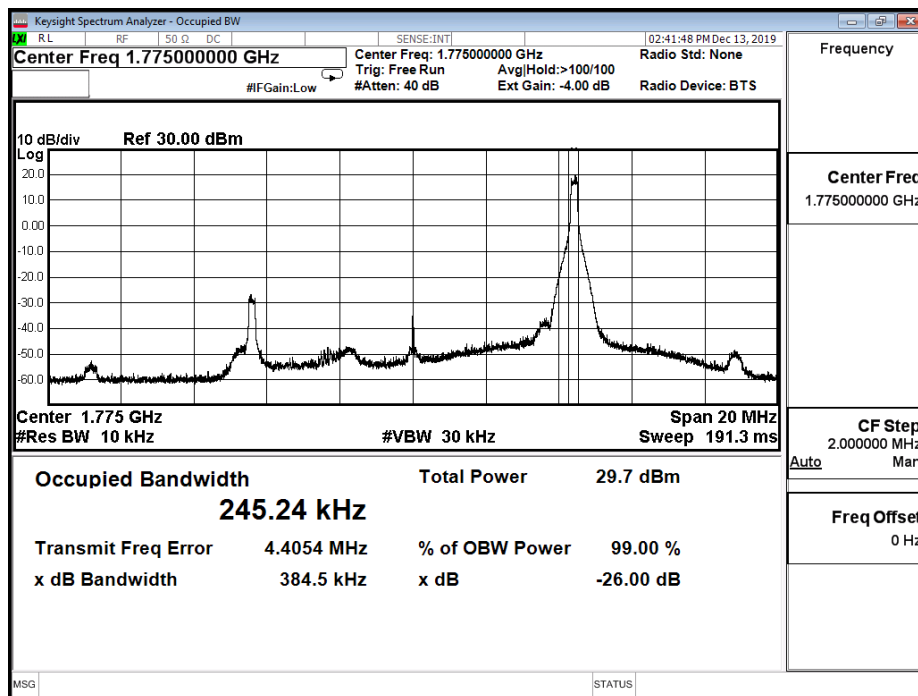
B66_CH132622_10M_QPSK_1RB49



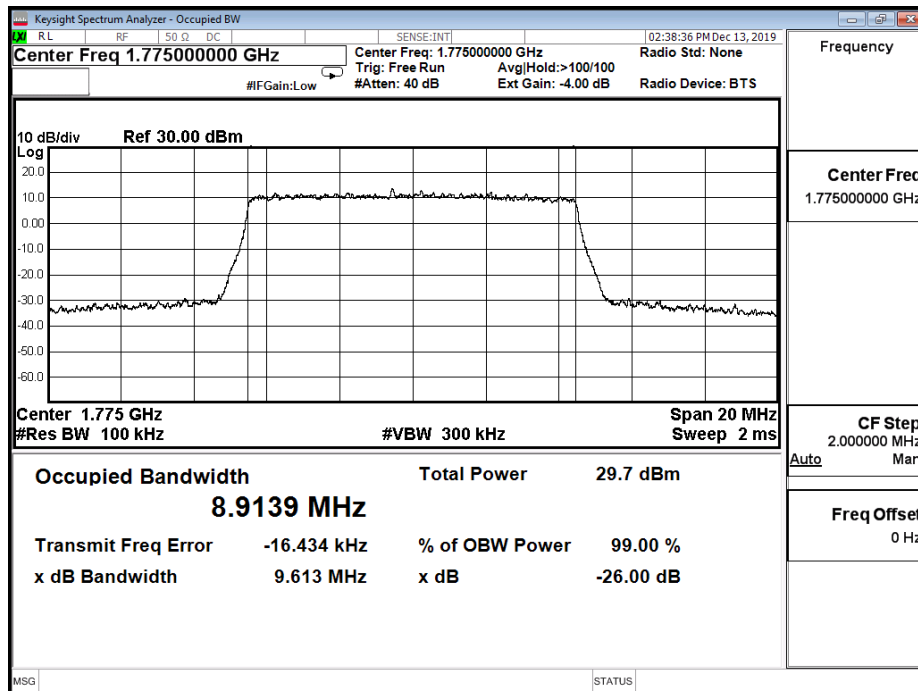
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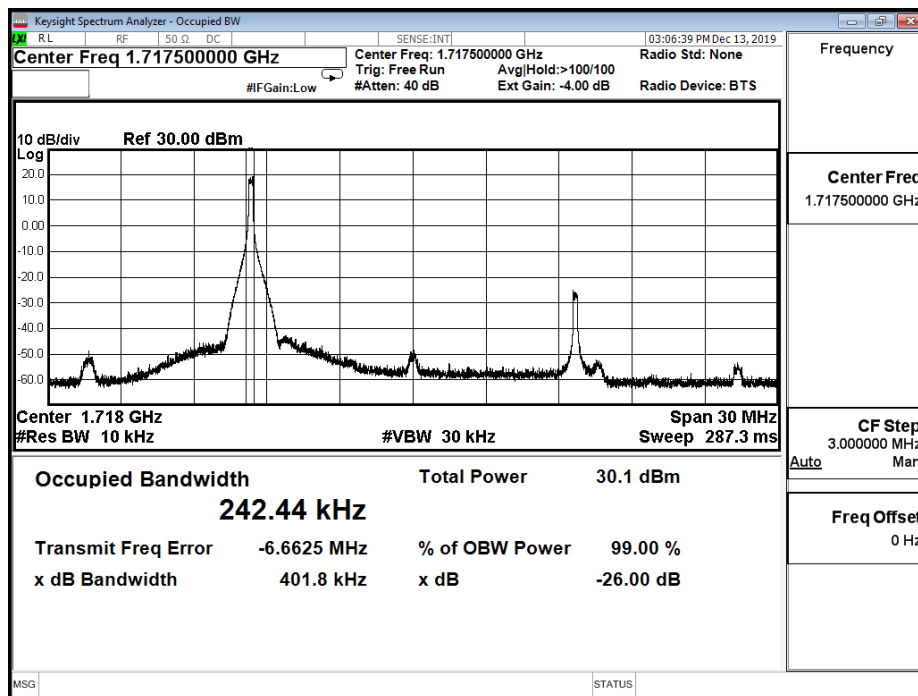
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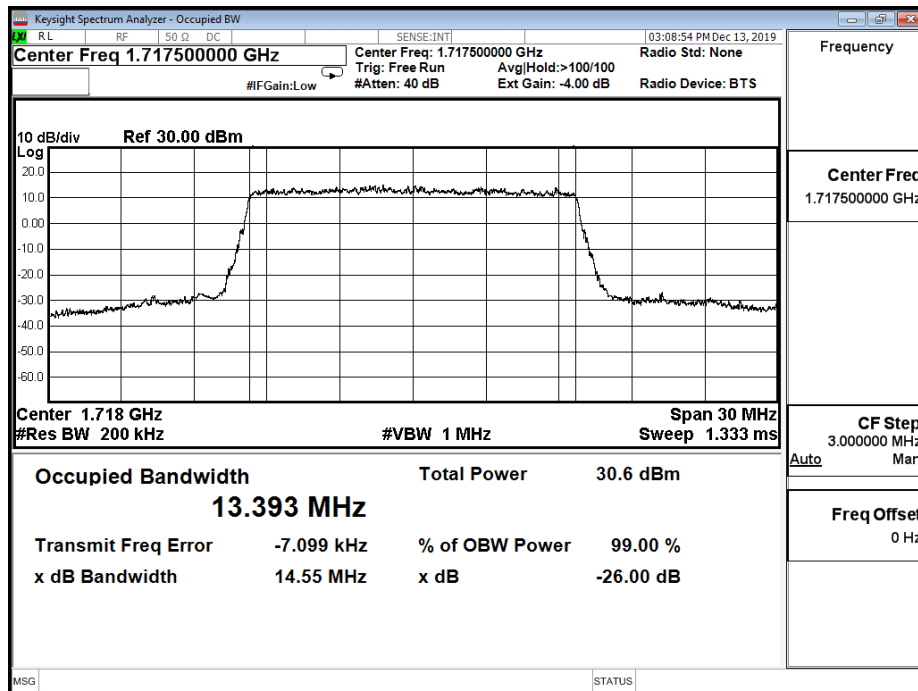
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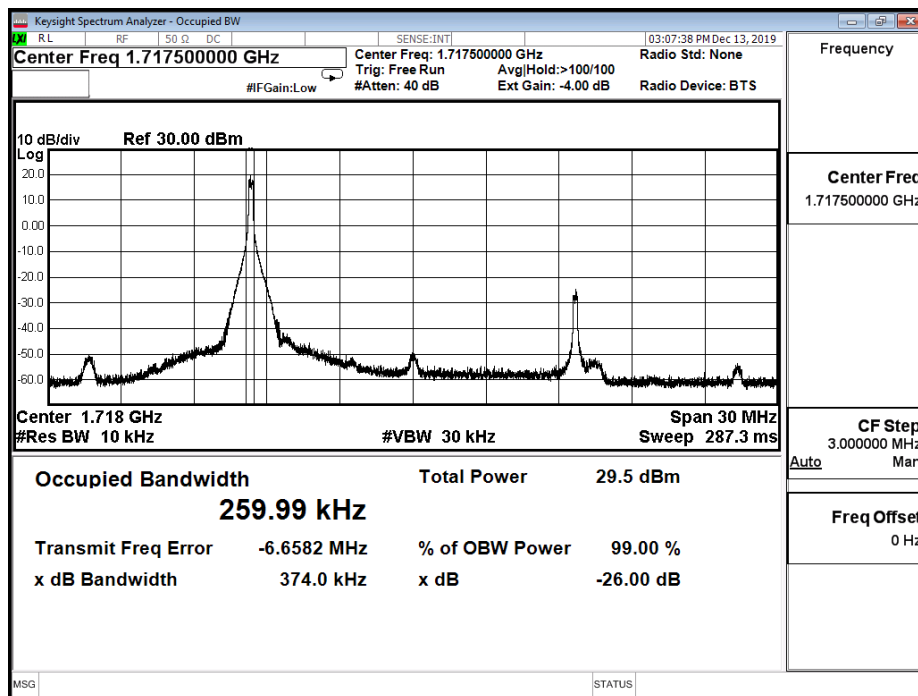
B66_CH132047_15M_QPSK_1RB0



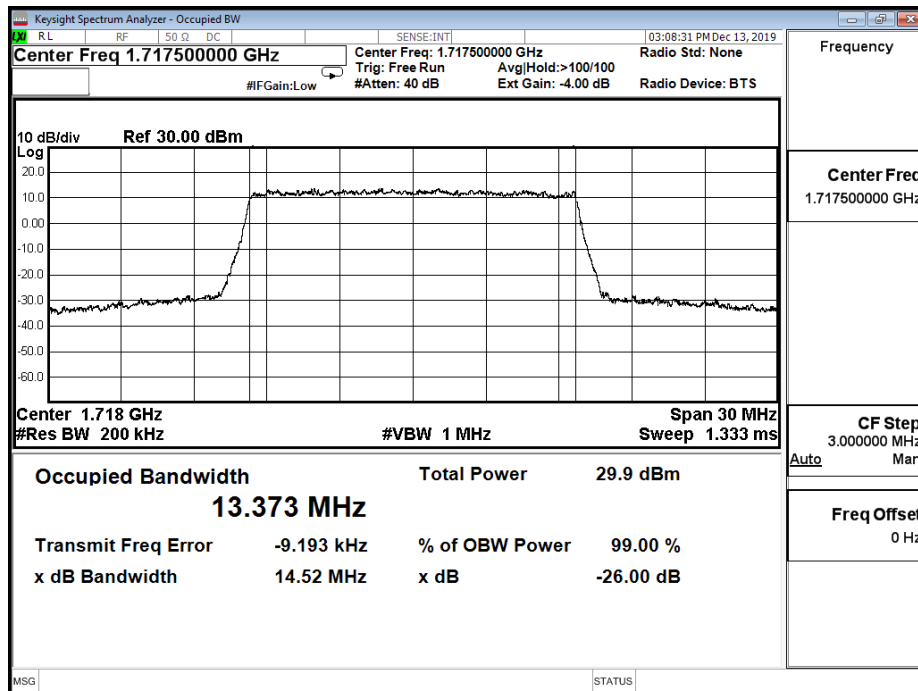
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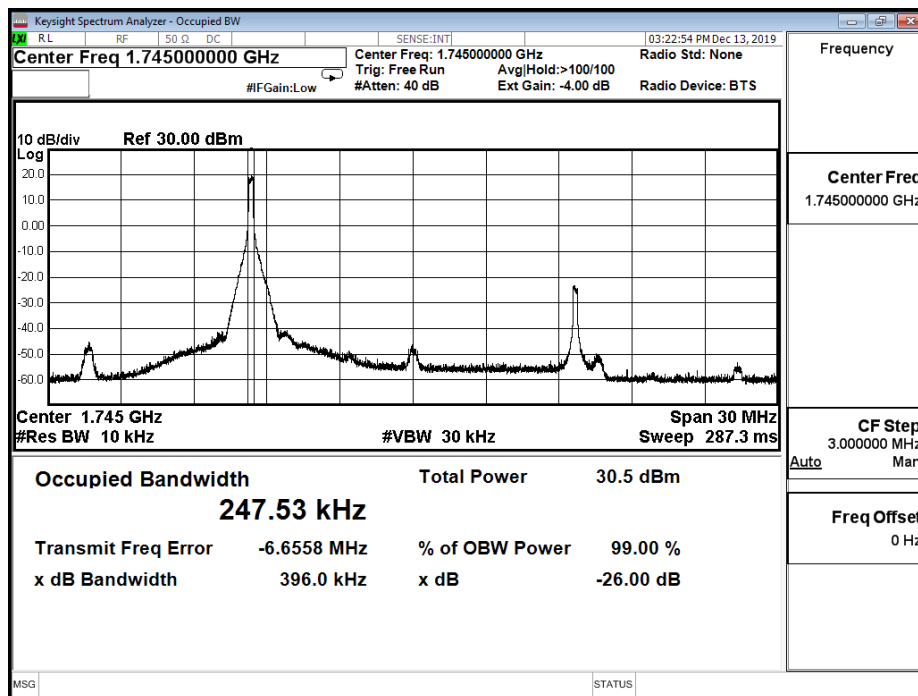
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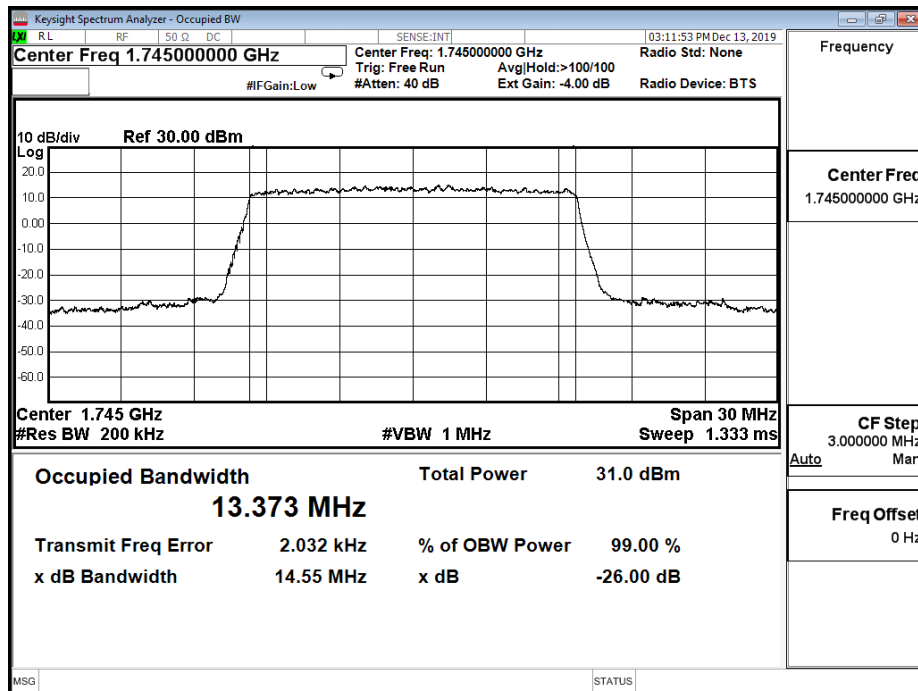
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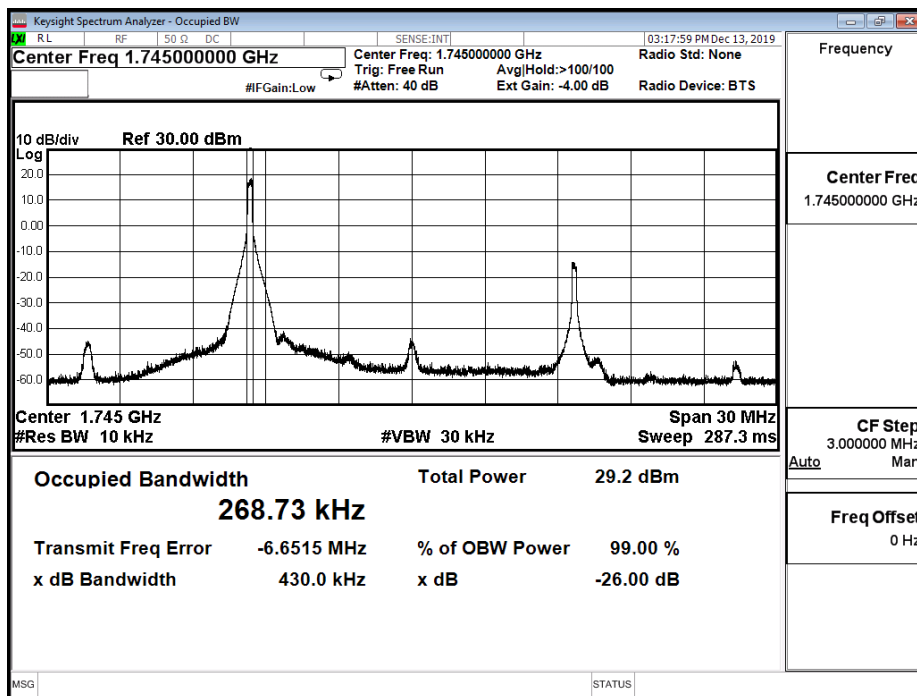
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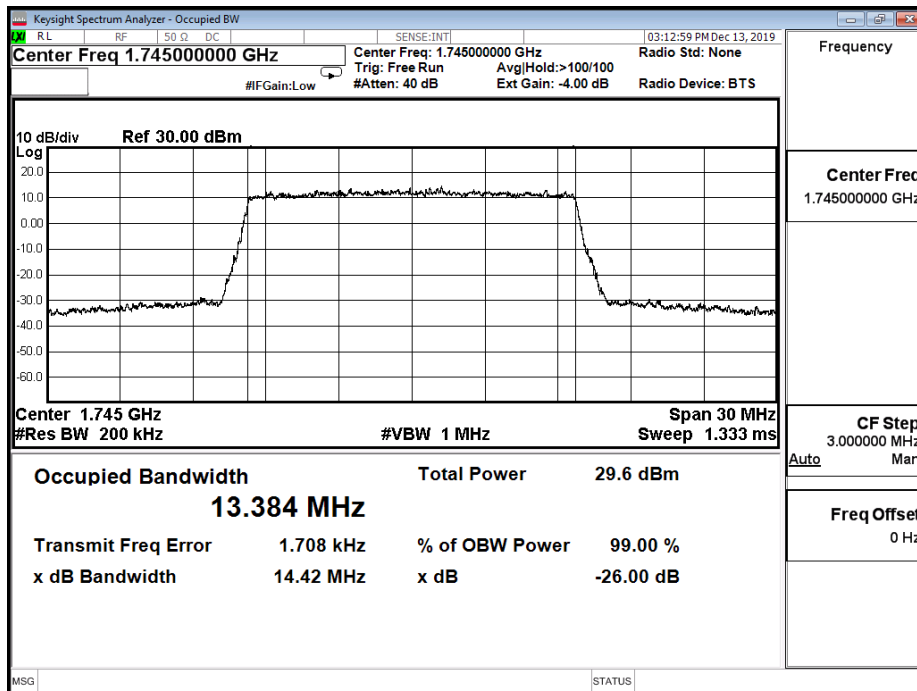
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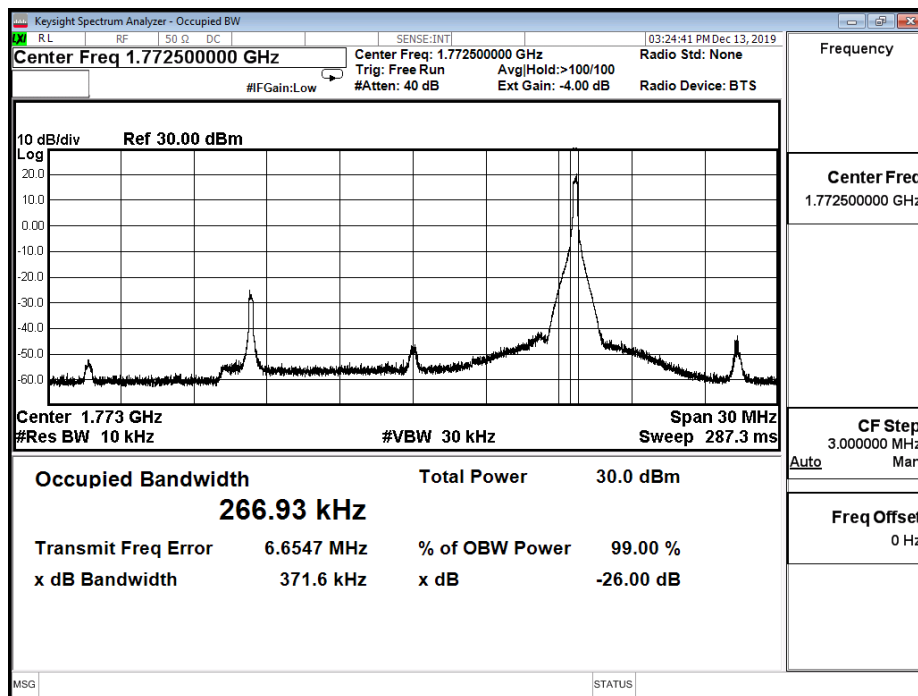
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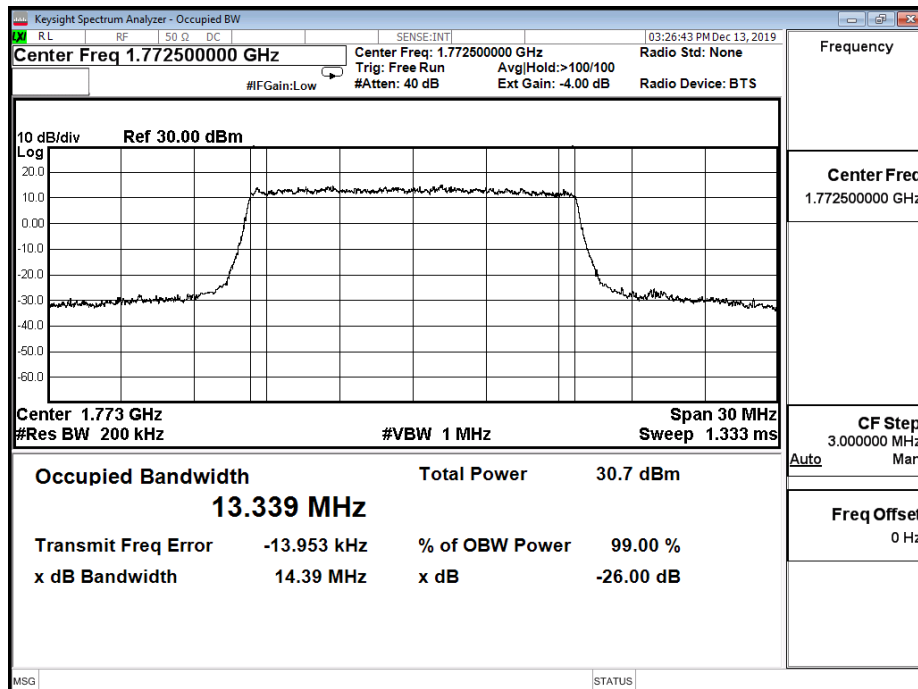
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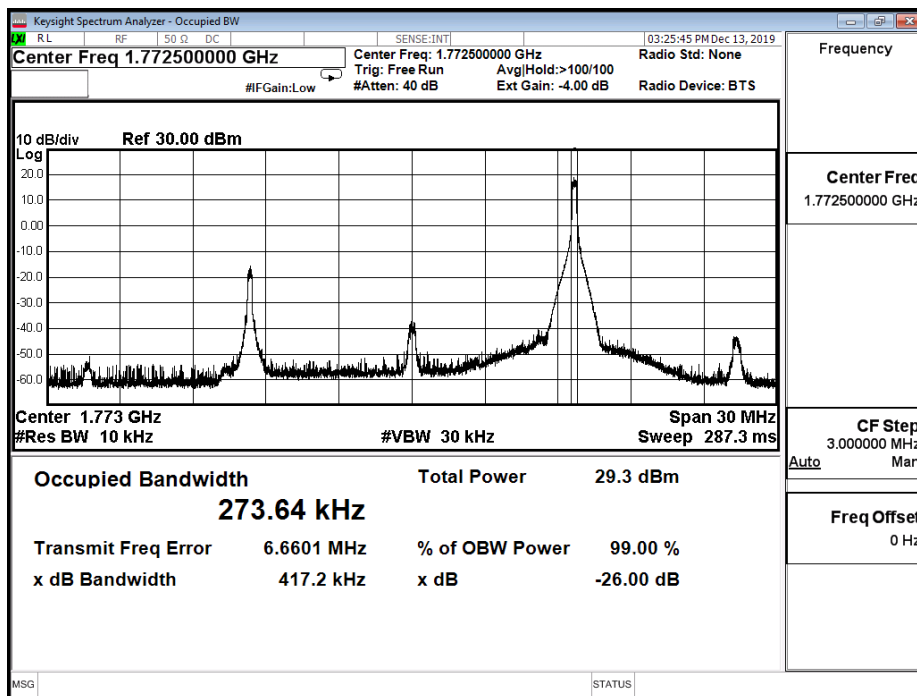
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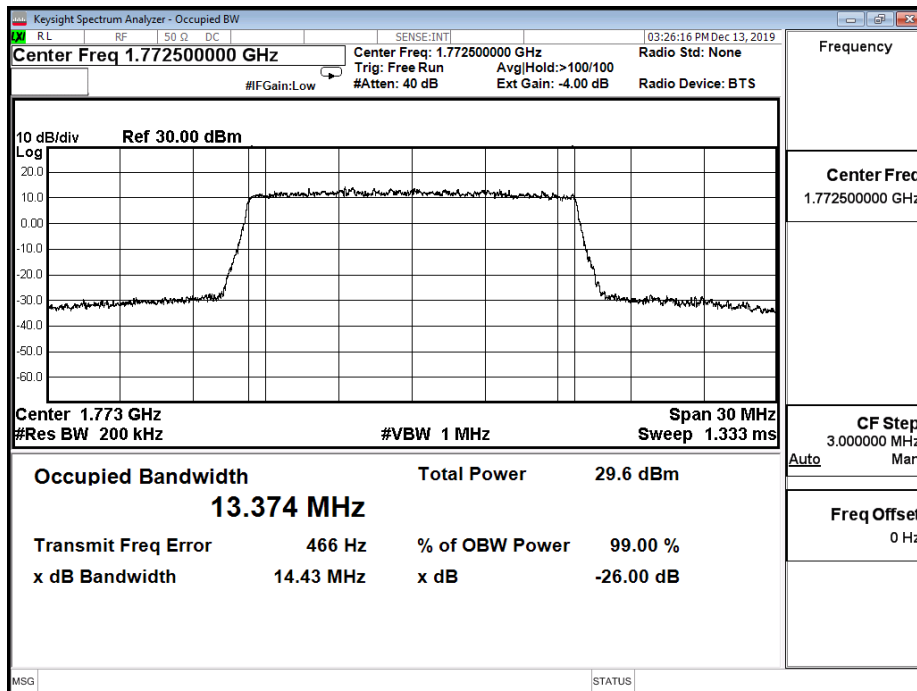
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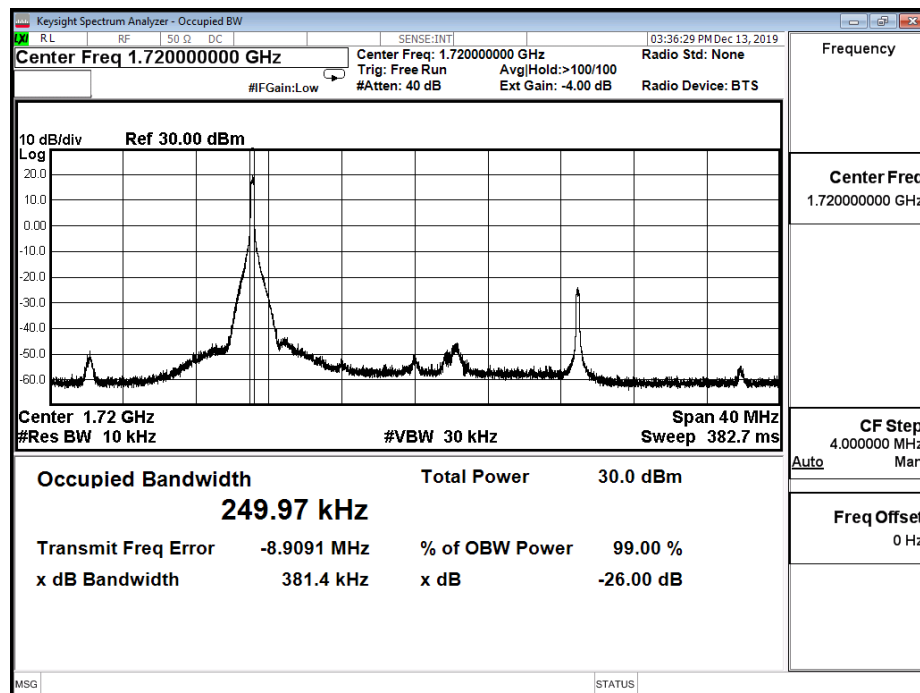
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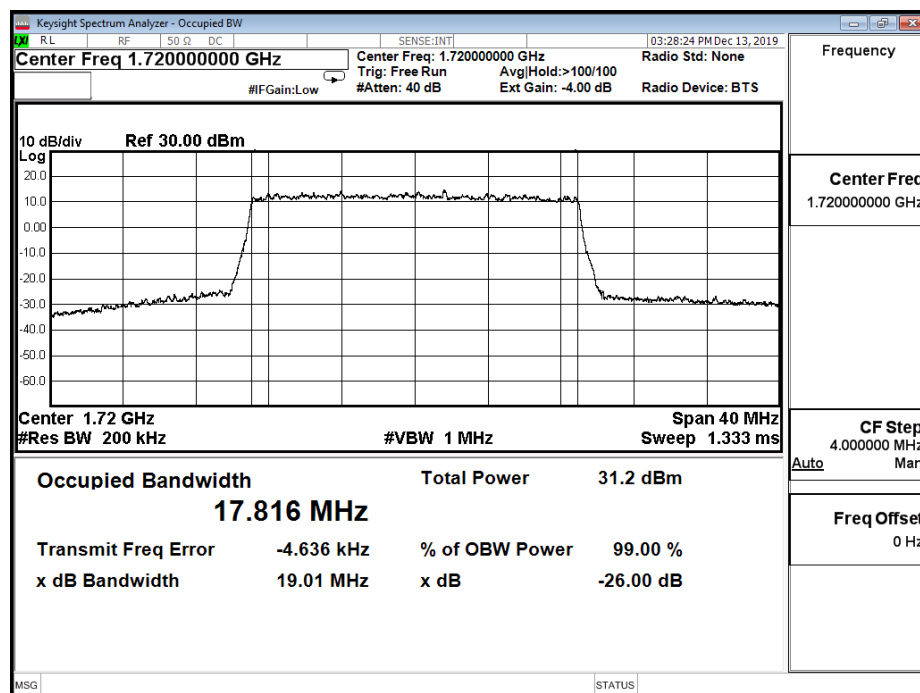
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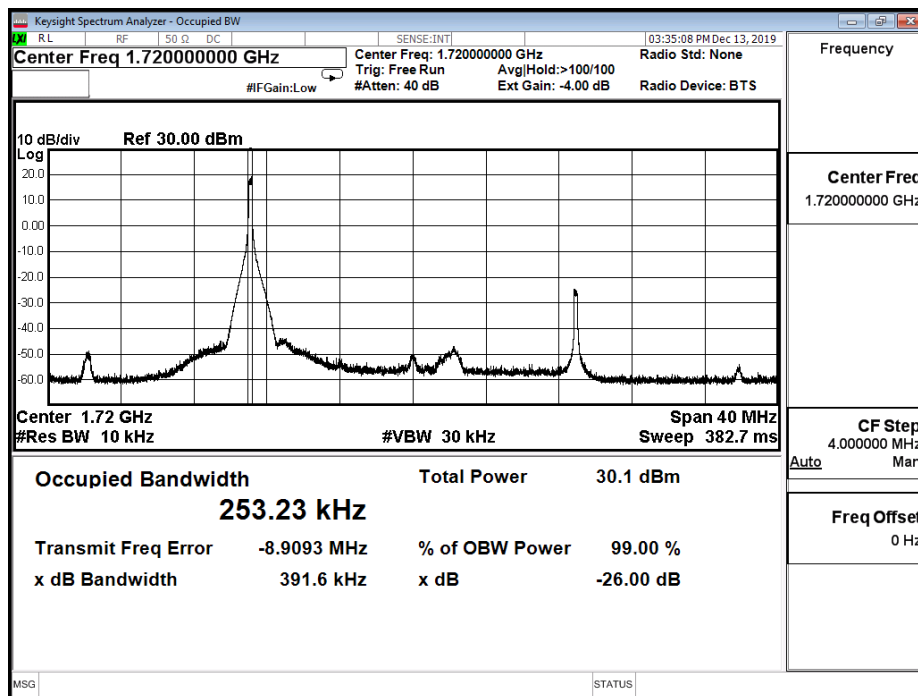
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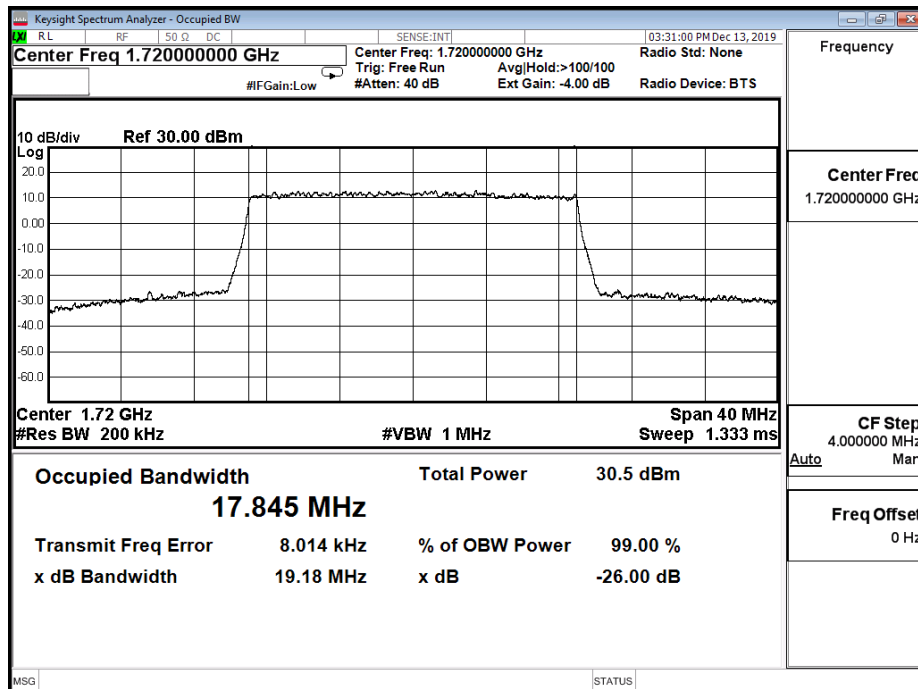
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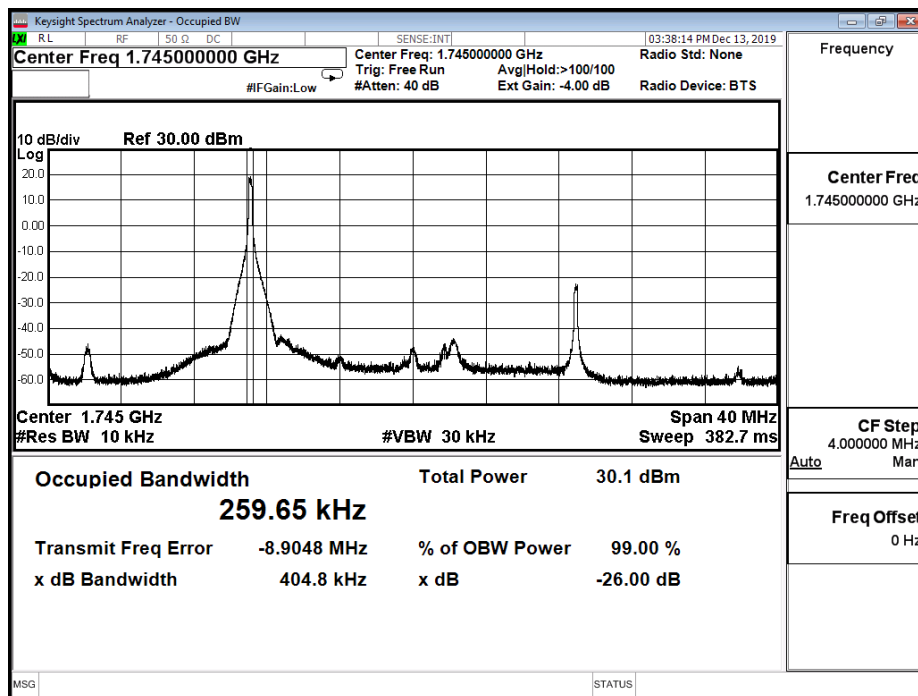
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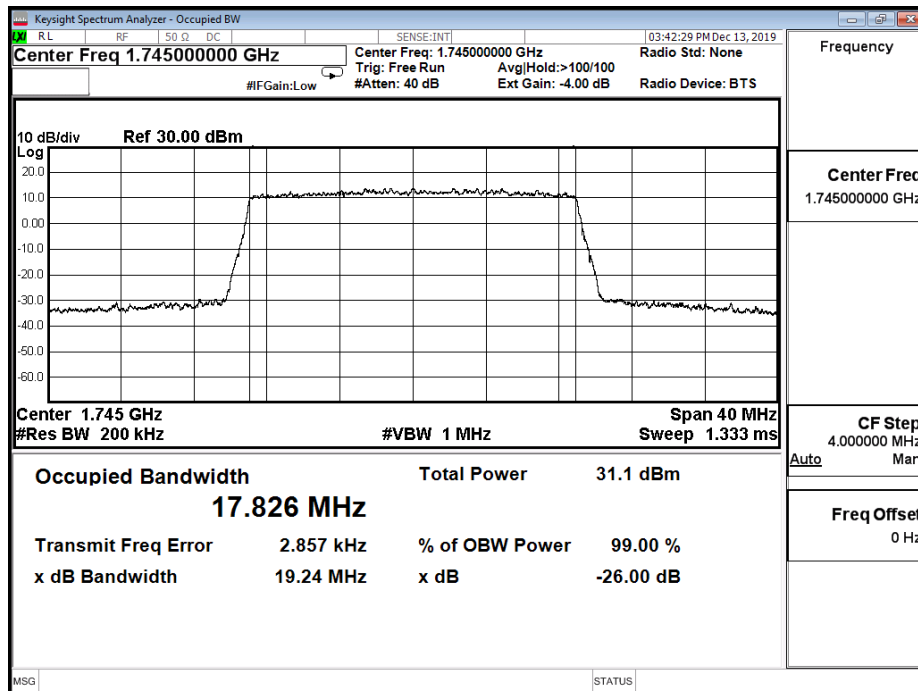
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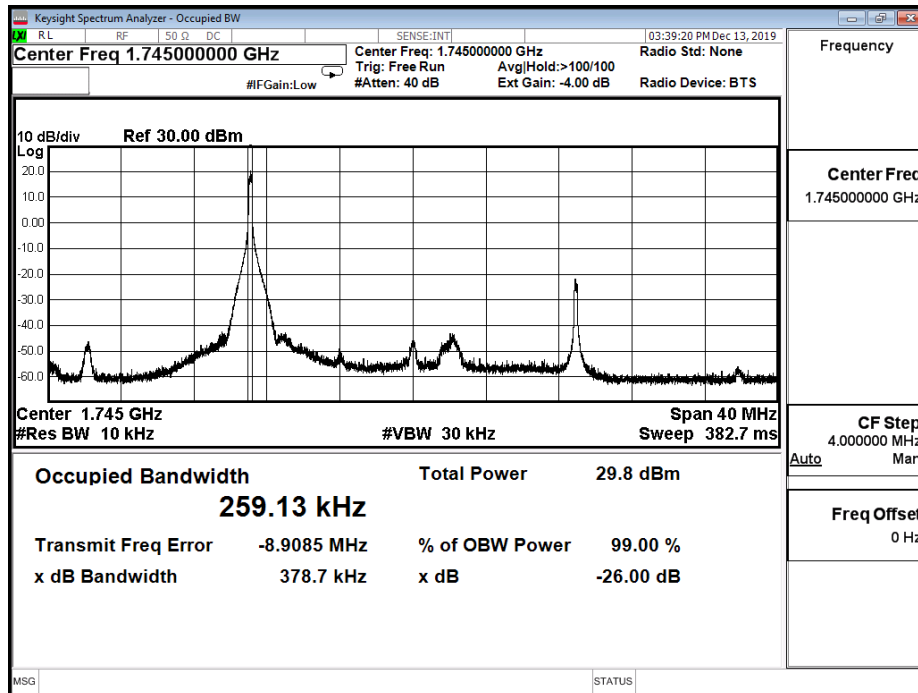
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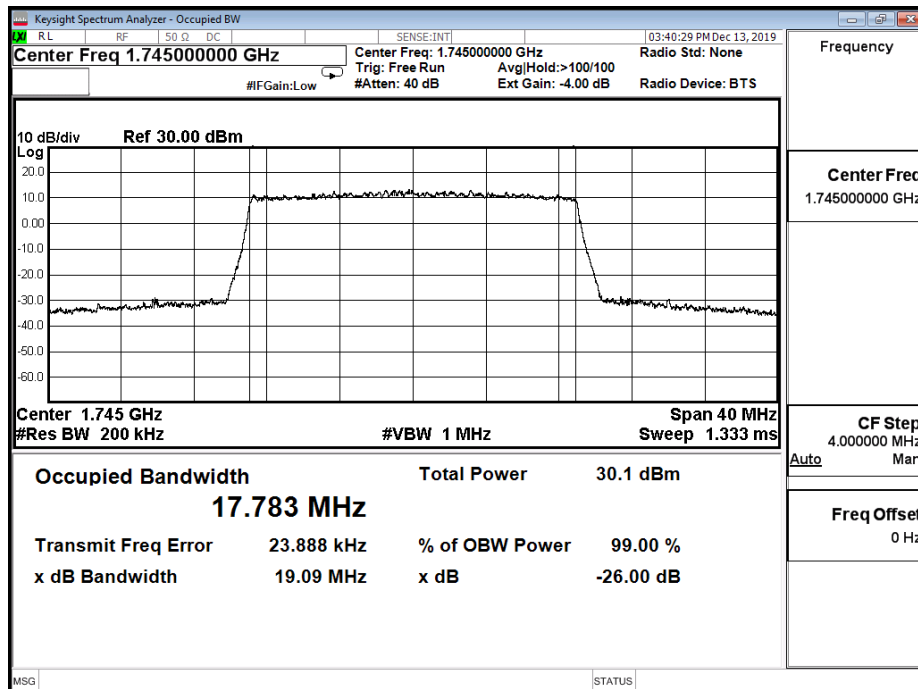
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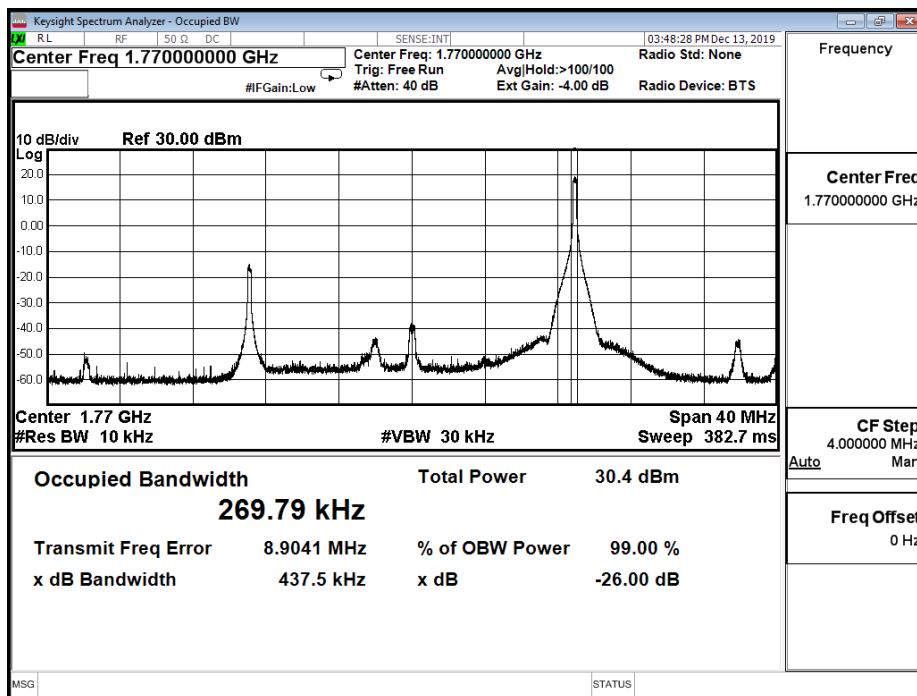
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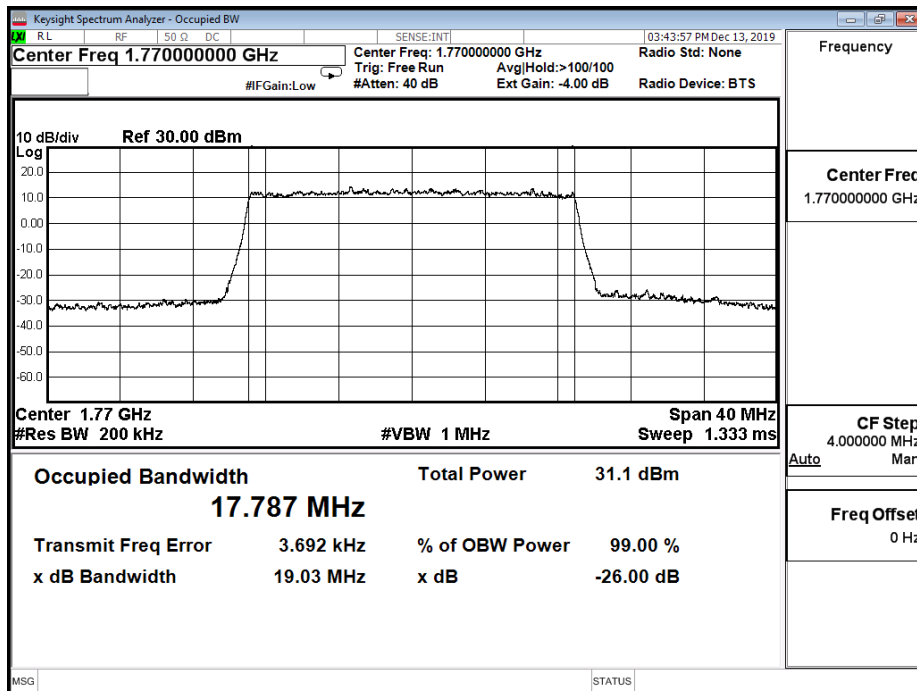
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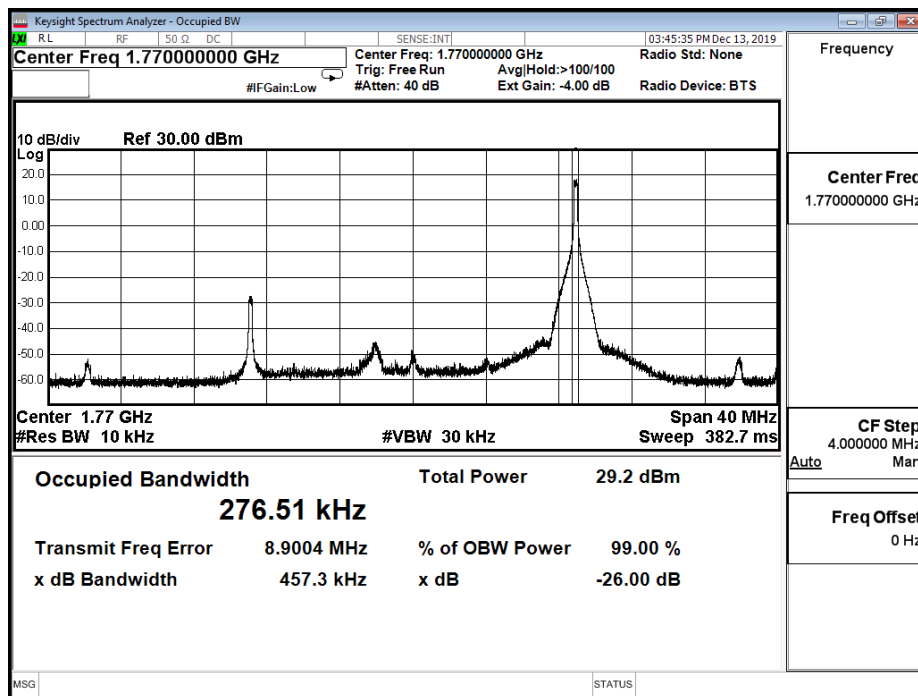
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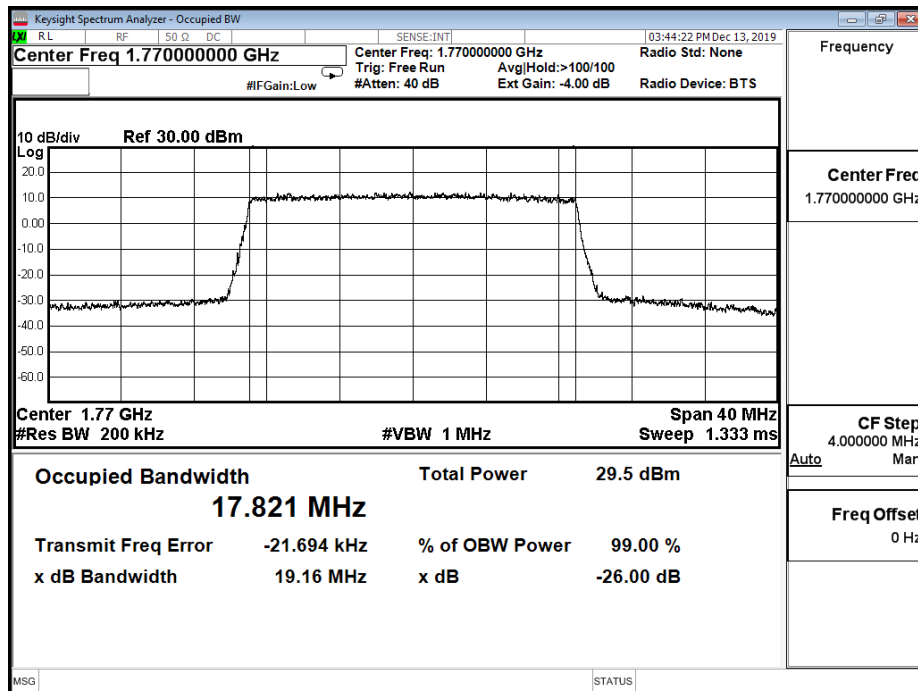
B66_CH132572_20M_QPSK_100RB0



B66_CH132572_20M_16-QAM_1RB99



B66_CH132572_20M_16-QAM_100RB0

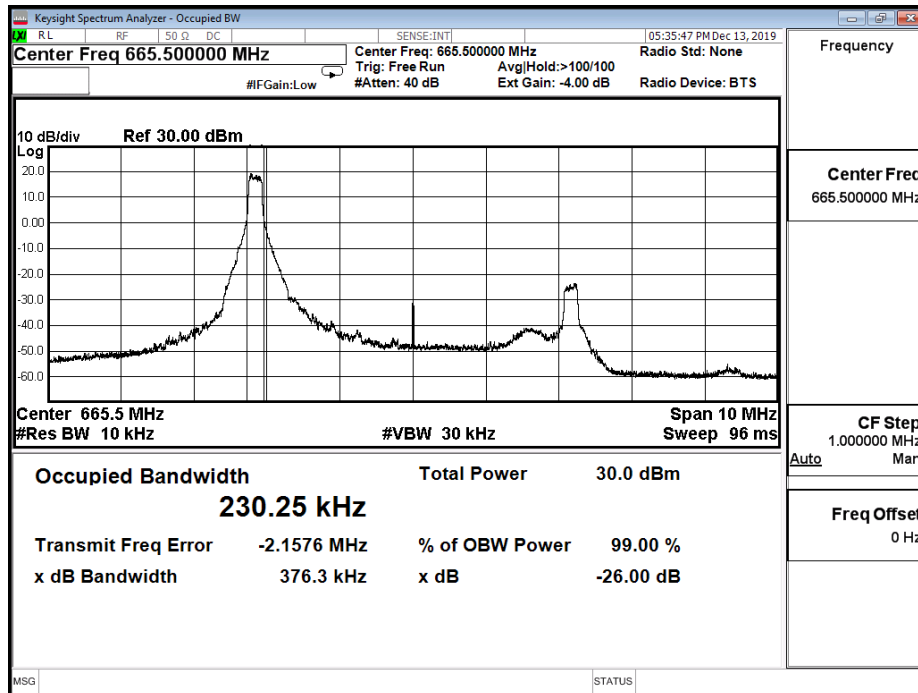


Product	Module		
Test Item	Occupied Bandwidth		
Test Mode	Mode 9: LTE Band 71		
Date of Test	2019/12/13	Test Site	SR12-H
Temperature (°C)	23.0°C	Humidity (%RH)	60%RH

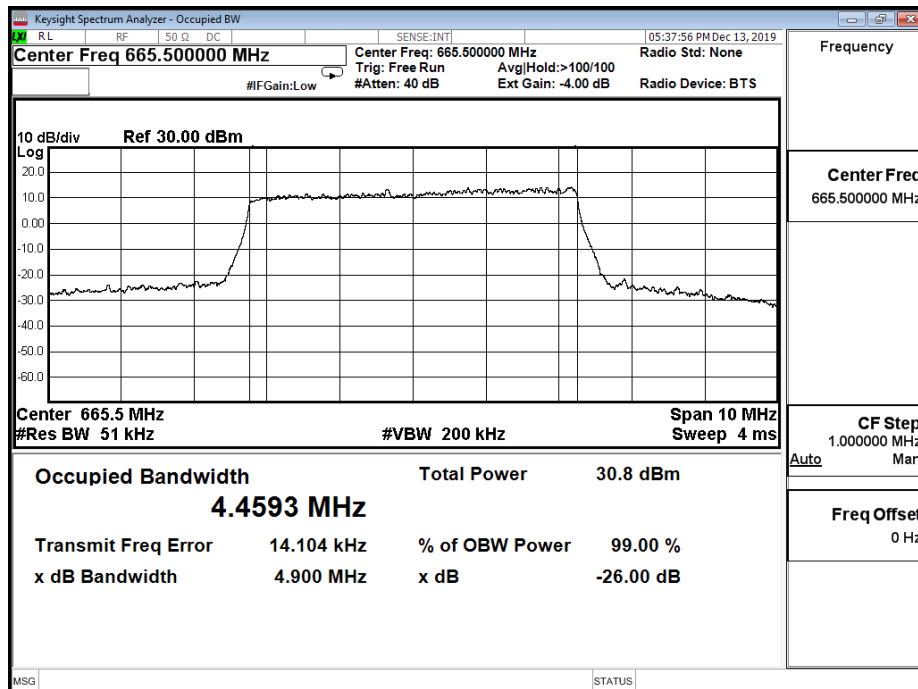
LTE Band 71_1RBI Low/high					
Band width (MHz)	Modulation	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
			26dB BW	99% BW	
5M	QPSK	665.5	0.376	0.230	N/A
		680.5	0.368	0.227	N/A
		690.5	0.374	0.227	N/A
	16-QAM	665.5	0.347	0.216	N/A
		680.5	0.345	0.217	N/A
		690.5	0.391	0.232	N/A
10M	QPSK	668.0	0.397	0.237	N/A
		680.5	0.362	0.234	N/A
		693.0	0.385	0.232	N/A
	16-QAM	668.0	0.341	0.235	N/A
		680.5	0.378	0.231	N/A
		693.0	0.378	0.240	N/A
15M	QPSK	670.5	0.390	0.252	N/A
		680.5	0.384	0.236	N/A
		690.5	0.393	0.241	N/A
	16-QAM	670.5	0.428	0.260	N/A
		680.5	0.373	0.262	N/A
		690.5	0.398	0.264	N/A
20M	QPSK	673.0	0.440	0.261	N/A
		680.5	0.417	0.257	N/A
		688.0	0.382	0.256	N/A
	16-QAM	673.0	0.375	0.258	N/A
		680.5	0.424	0.267	N/A
		688.0	0.410	0.263	N/A

LTE Band 71_Full RB					
Band width (MHz)	Modulation	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
			26dB BW	99% BW	
5M	QPSK	665.5	4.900	4.459	N/A
		680.5	4.872	4.471	N/A
		690.5	4.939	4.481	N/A
	16-QAM	665.5	4.863	4.468	N/A
		680.5	4.909	4.475	N/A
		690.5	4.900	4.470	N/A
10M	QPSK	668.0	9.596	8.880	N/A
		680.5	9.661	8.910	N/A
		693.0	9.780	8.931	N/A
	16-QAM	668.0	9.579	8.875	N/A
		680.5	9.614	8.901	N/A
		693.0	9.626	8.935	N/A
15M	QPSK	670.5	14.510	13.345	N/A
		680.5	14.480	13.366	N/A
		690.5	14.650	13.414	N/A
	16-QAM	670.5	14.480	13.357	N/A
		680.5	14.470	13.352	N/A
		690.5	14.500	13.434	N/A
20M	QPSK	673.0	19.290	17.855	N/A
		680.5	18.960	17.752	N/A
		688.0	18.820	17.773	N/A
	16-QAM	673.0	19.140	17.811	N/A
		680.5	19.080	17.785	N/A
		688.0	18.970	17.790	N/A

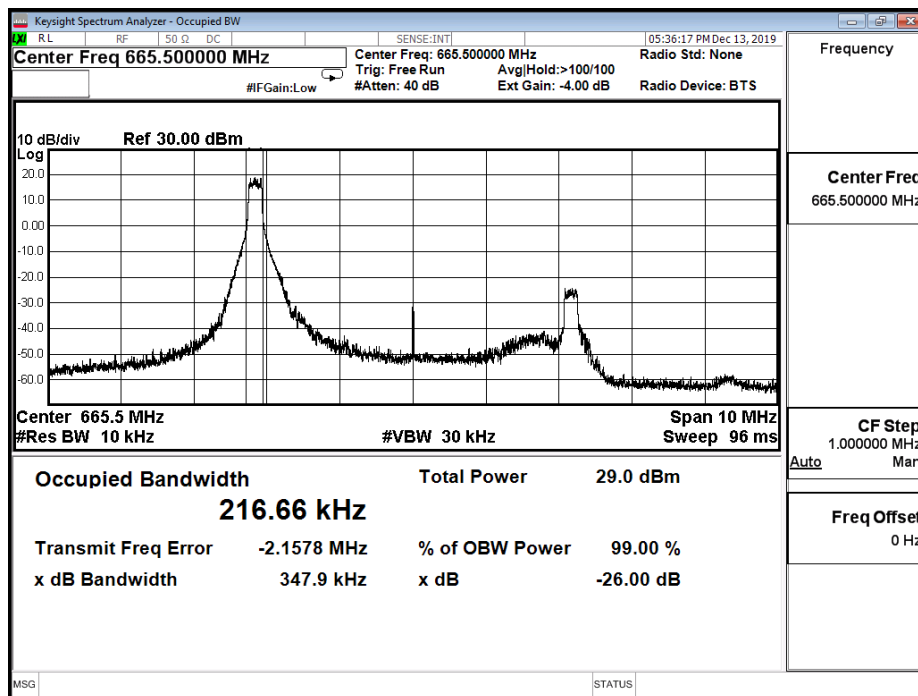
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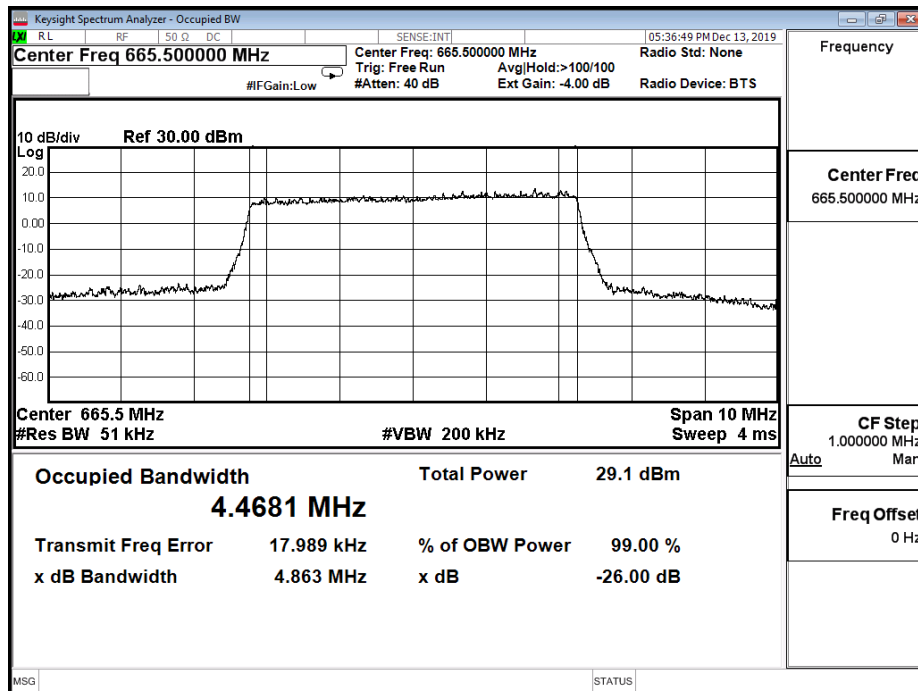
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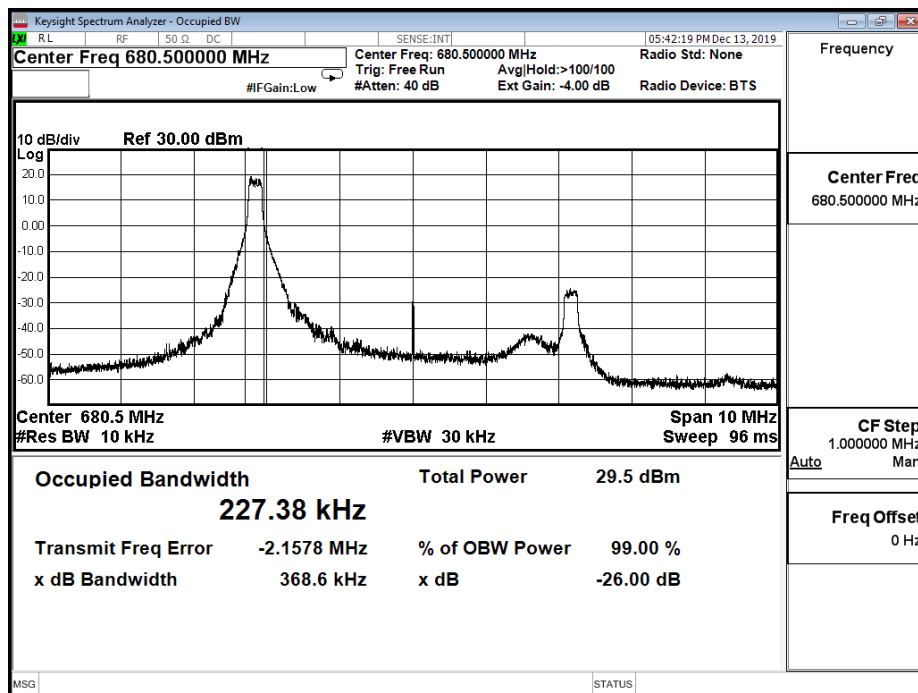
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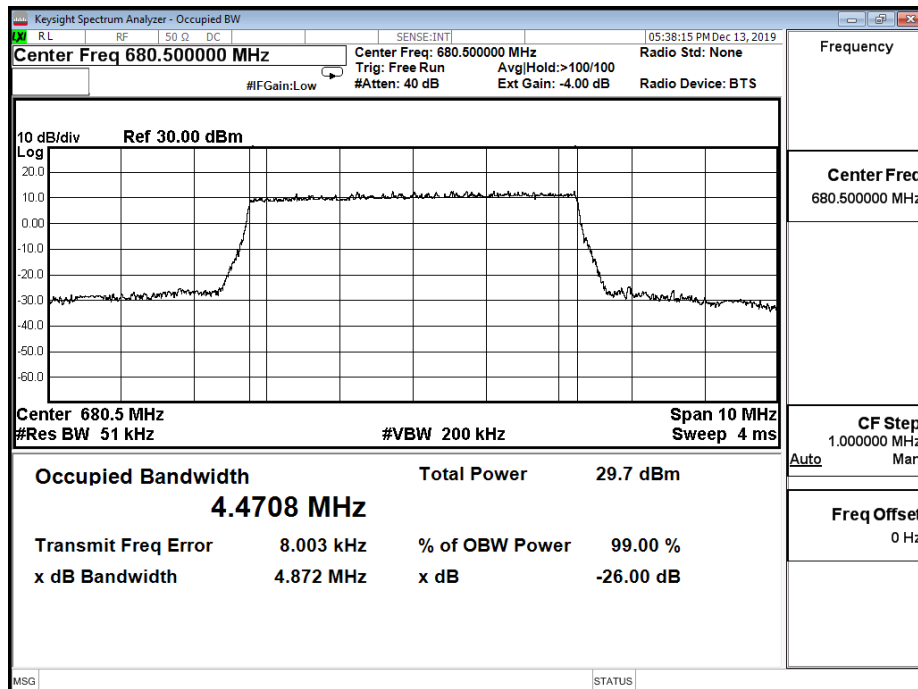
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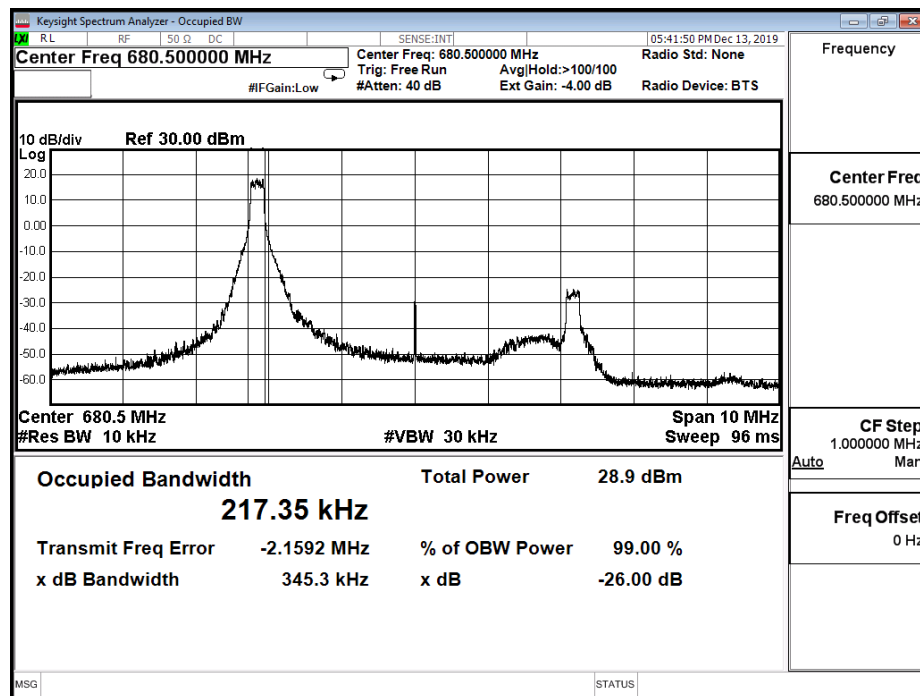
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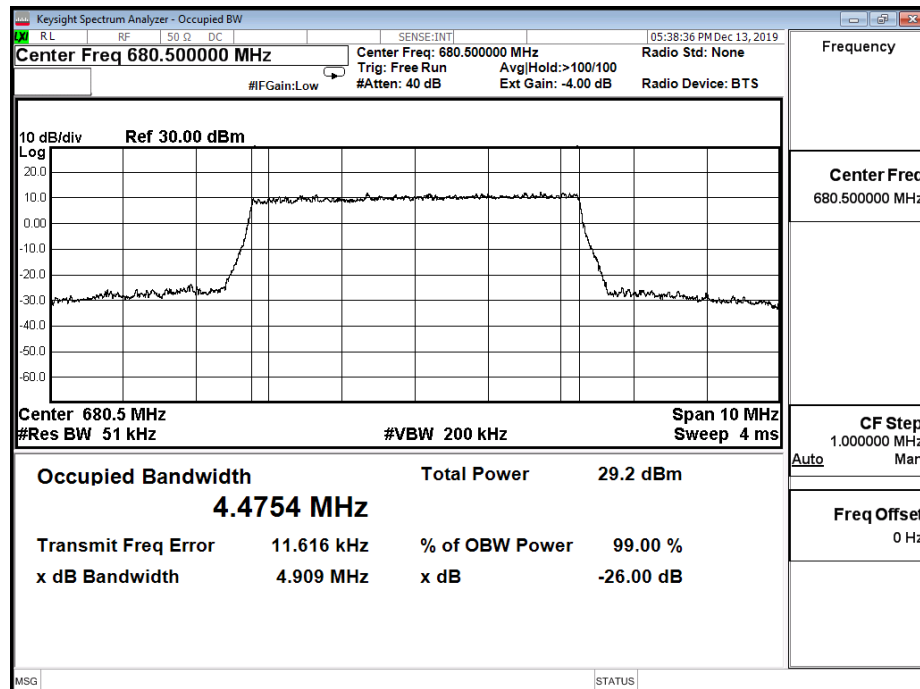
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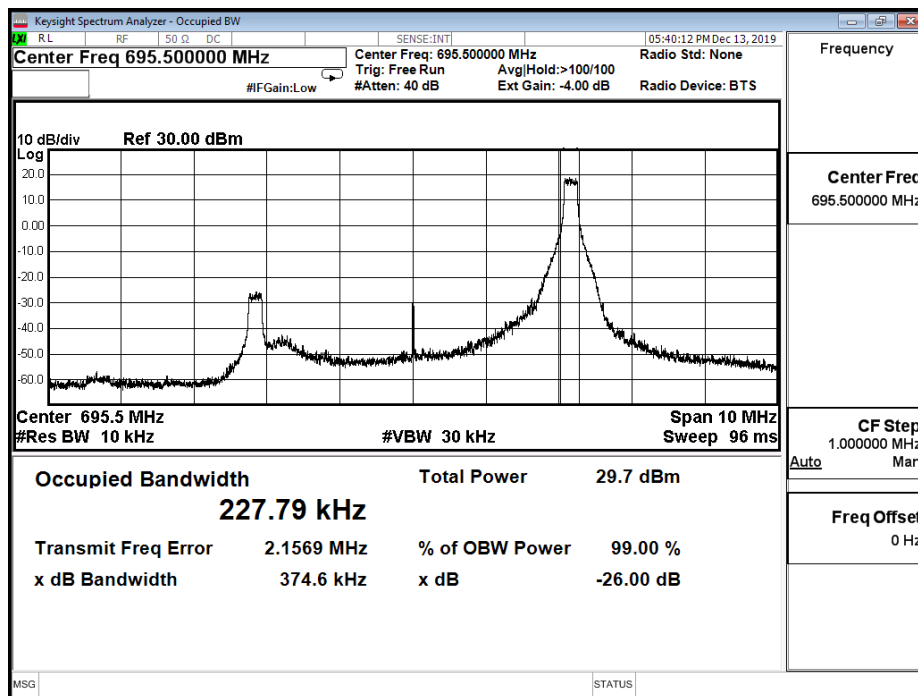
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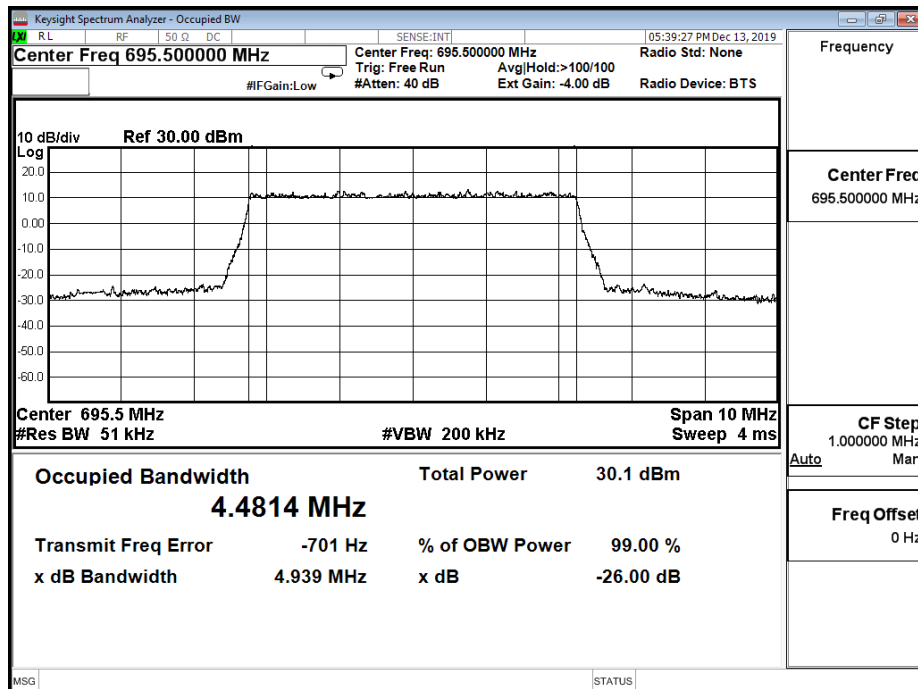
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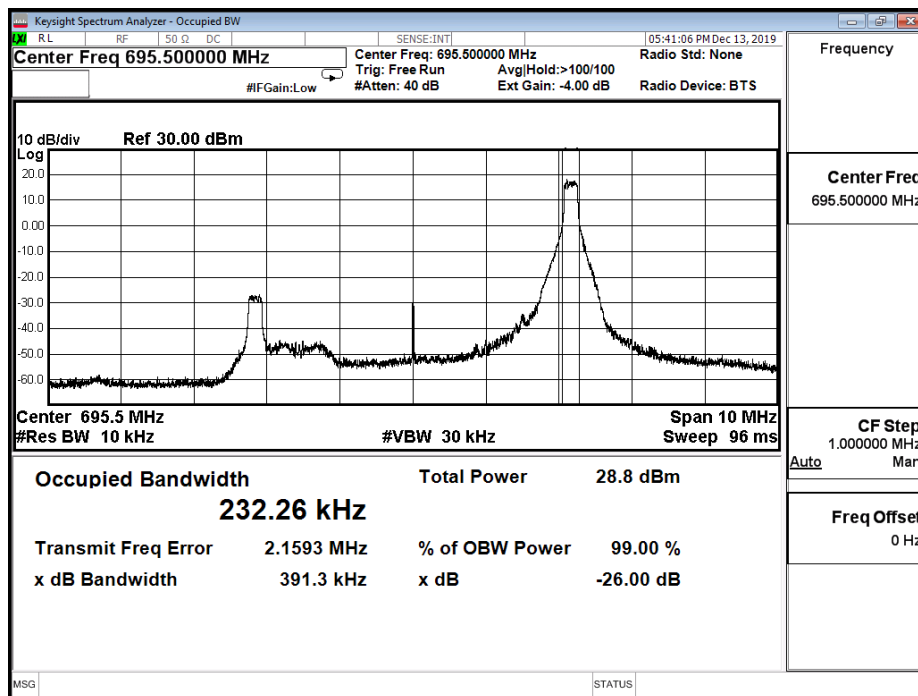
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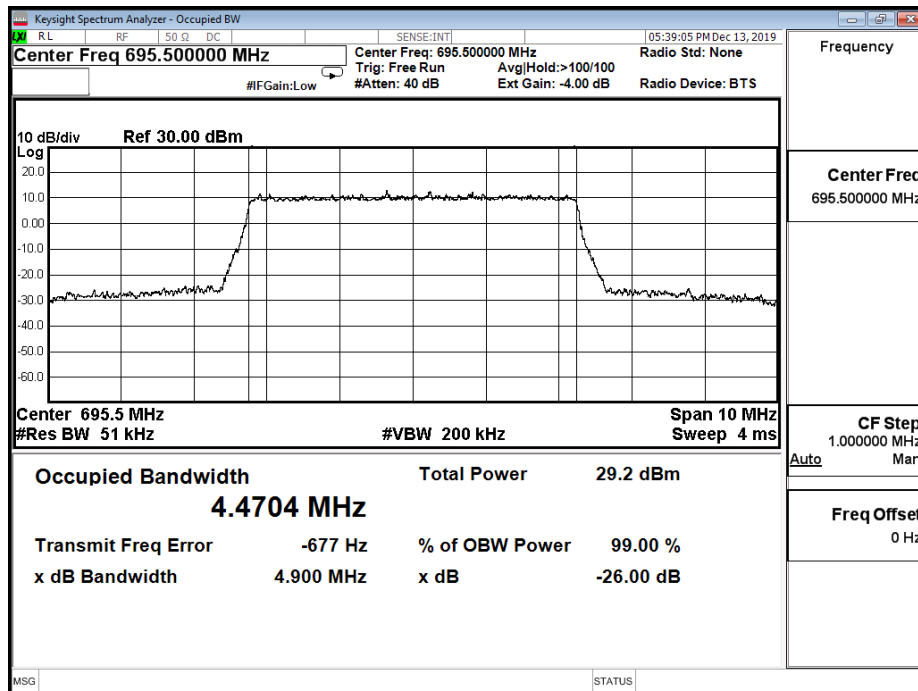
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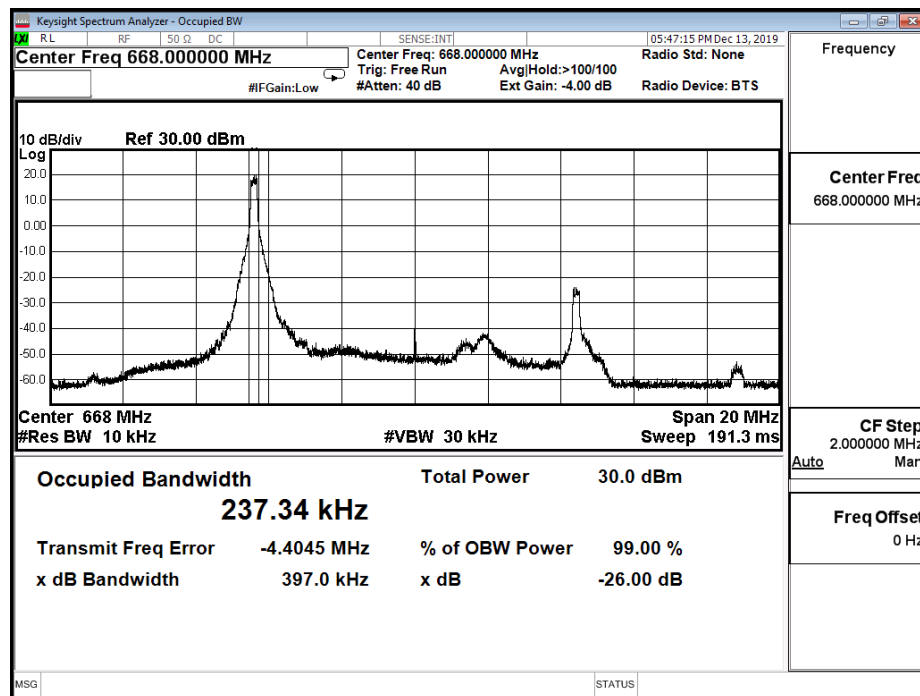
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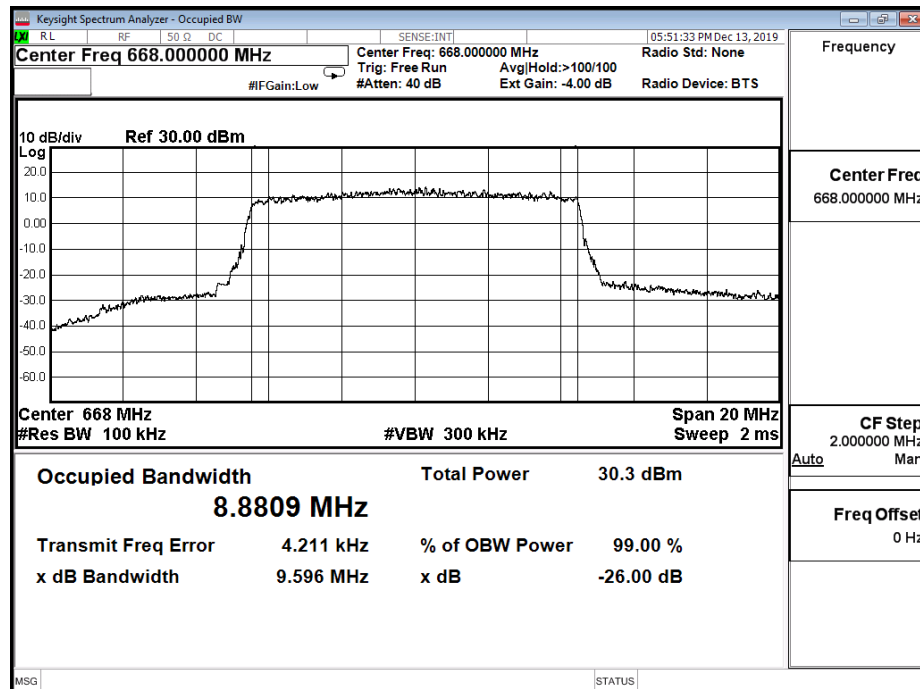
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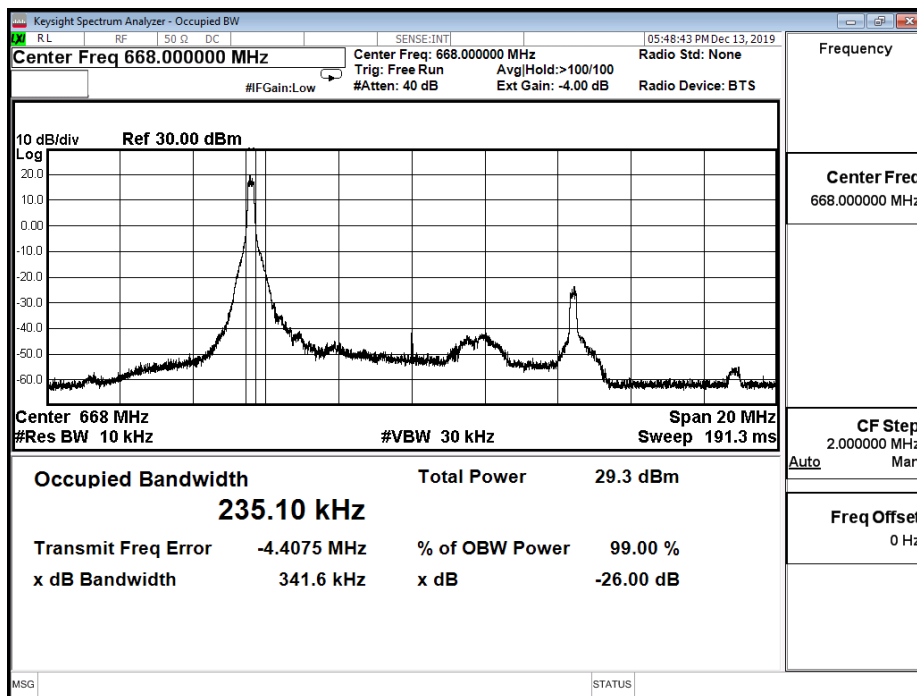
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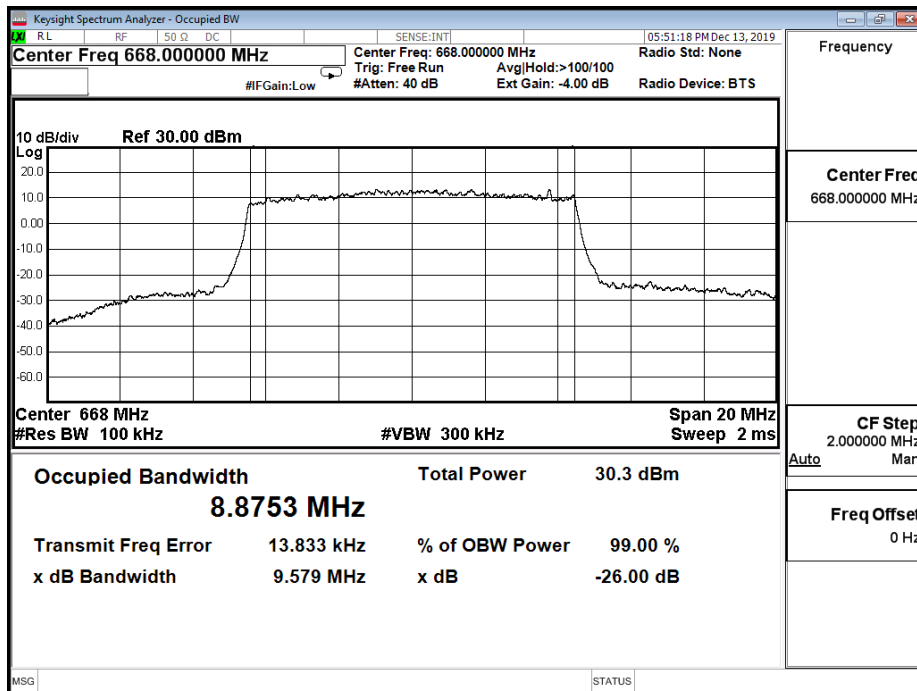
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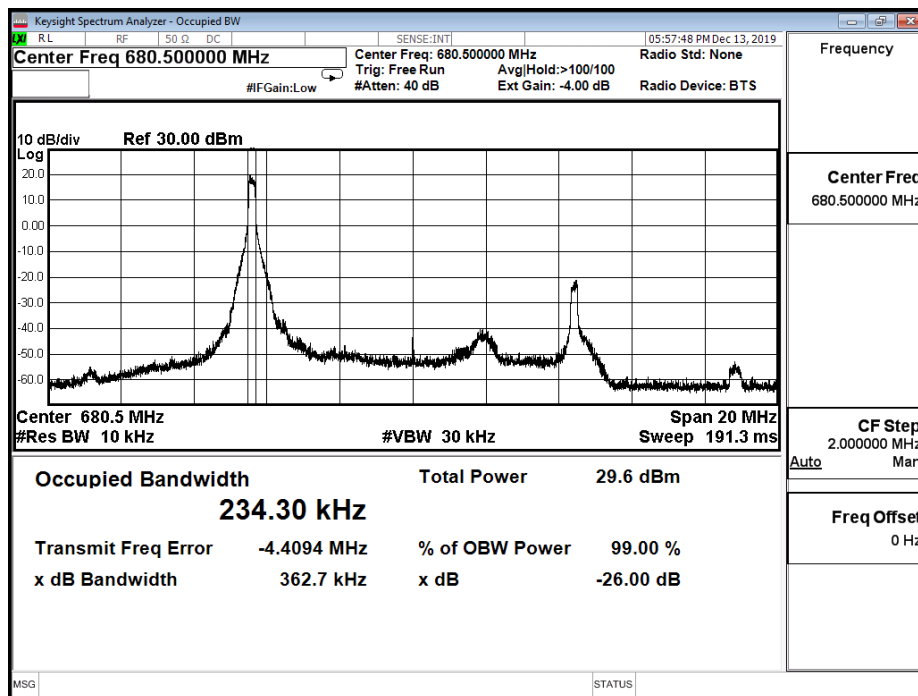
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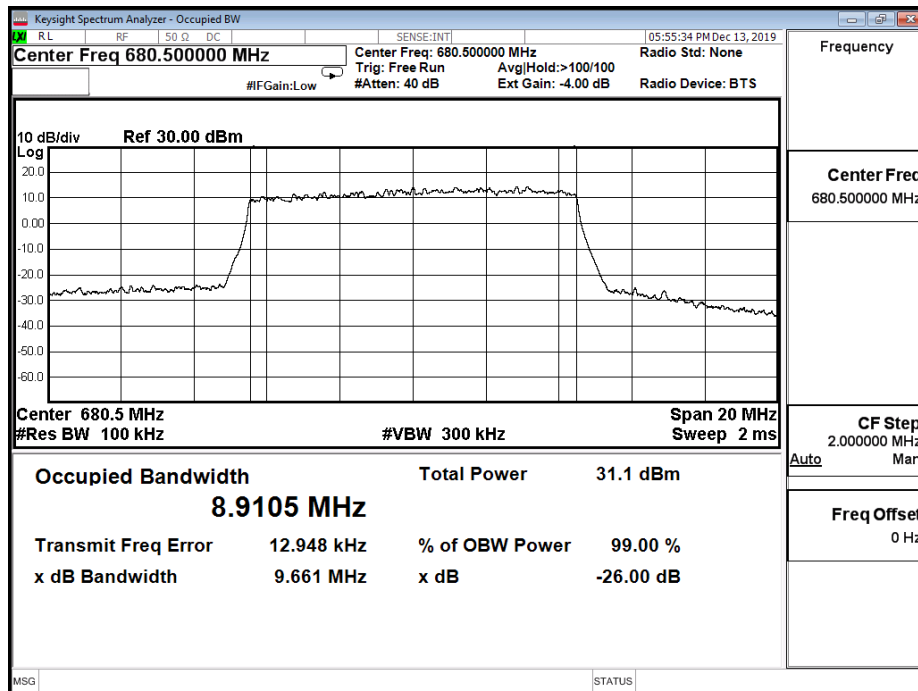
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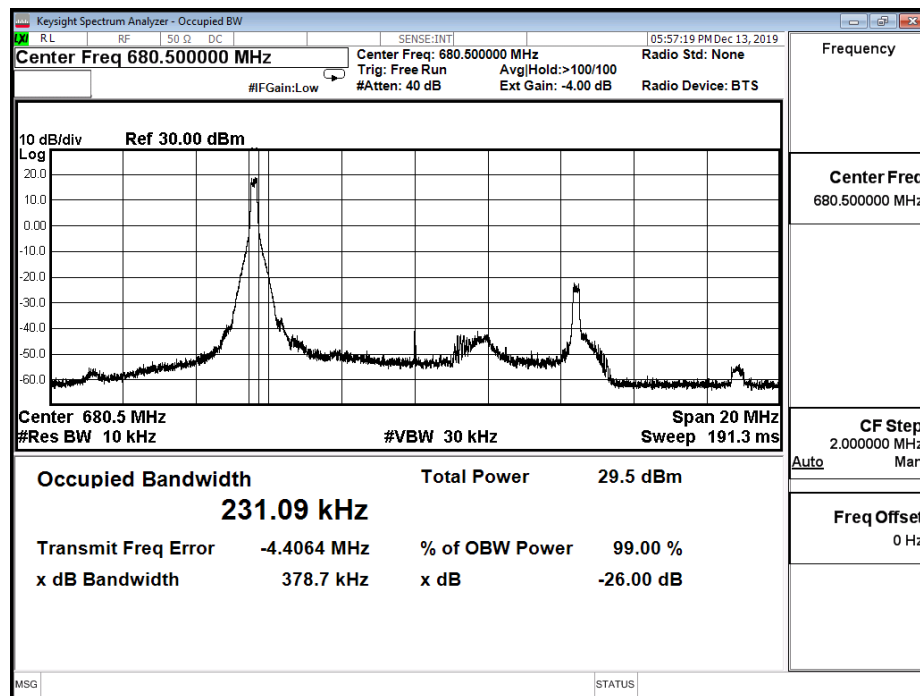
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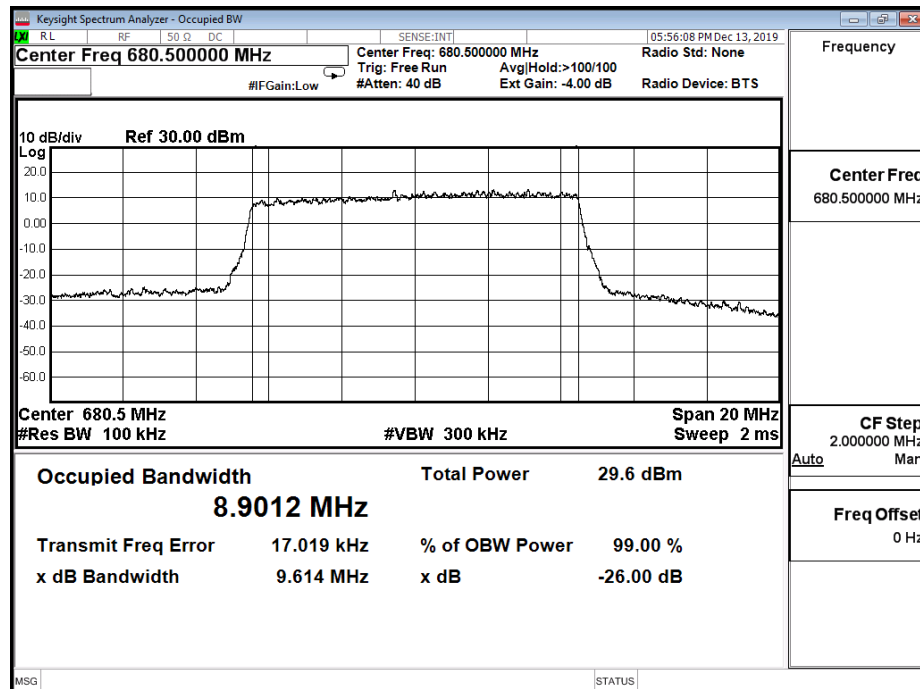
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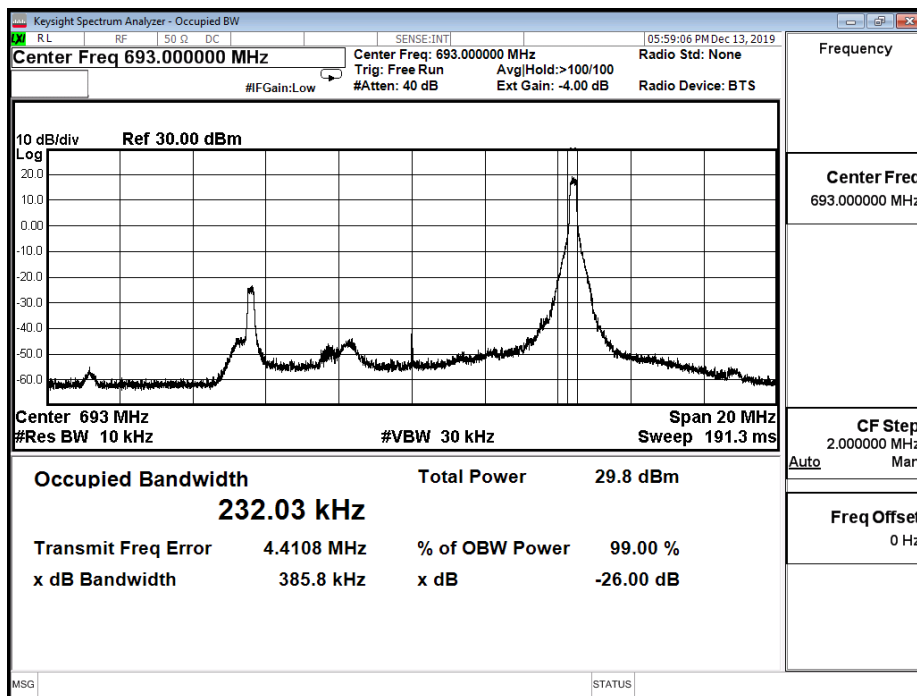
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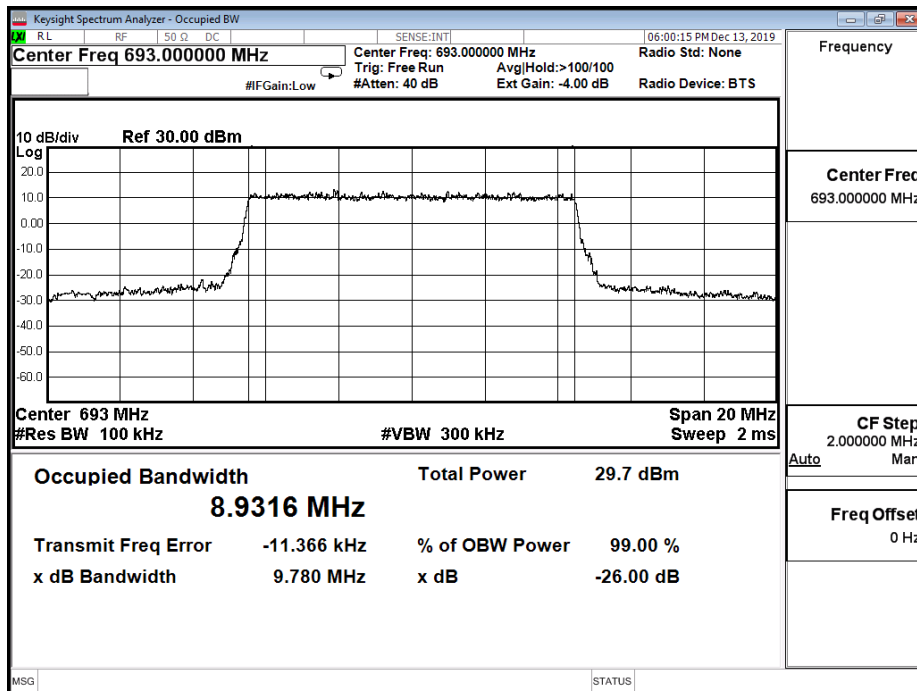
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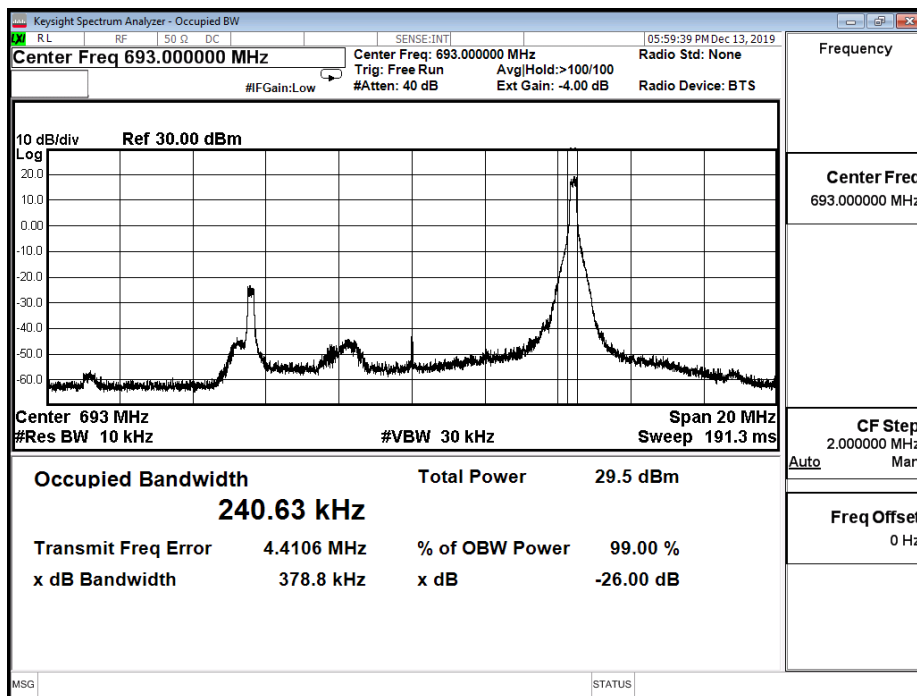
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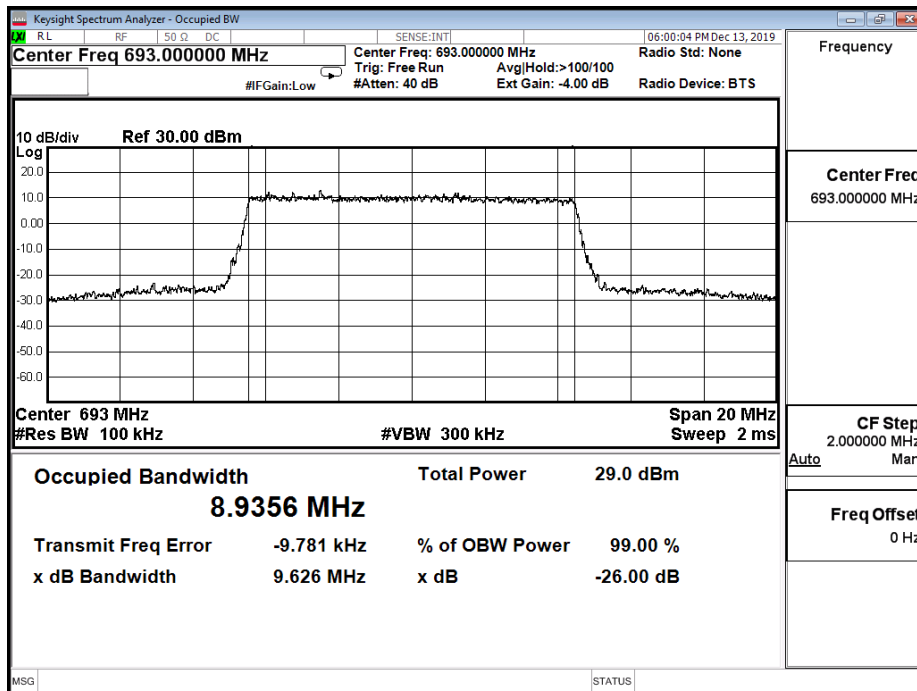
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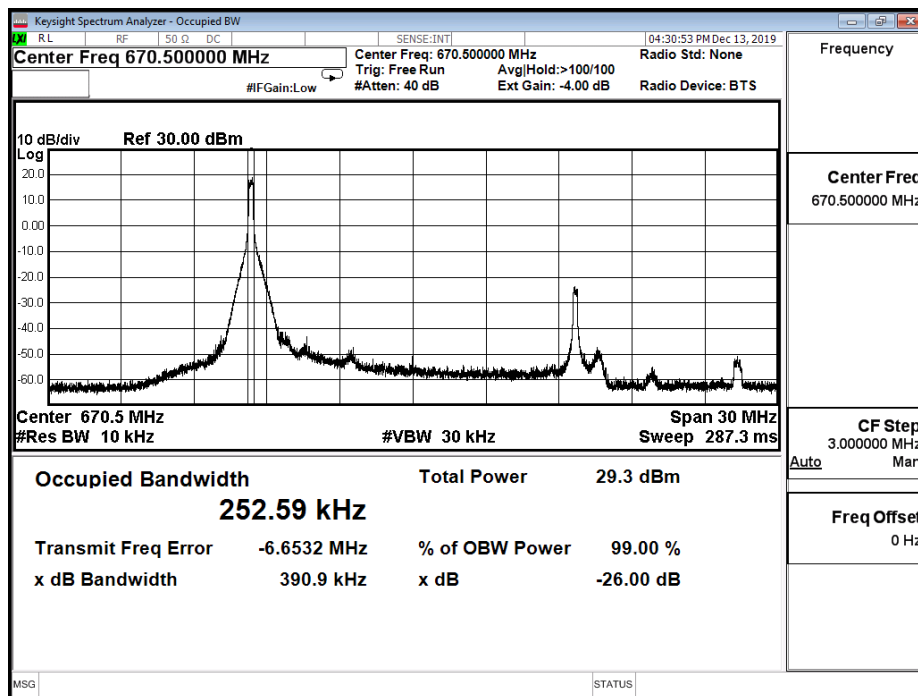
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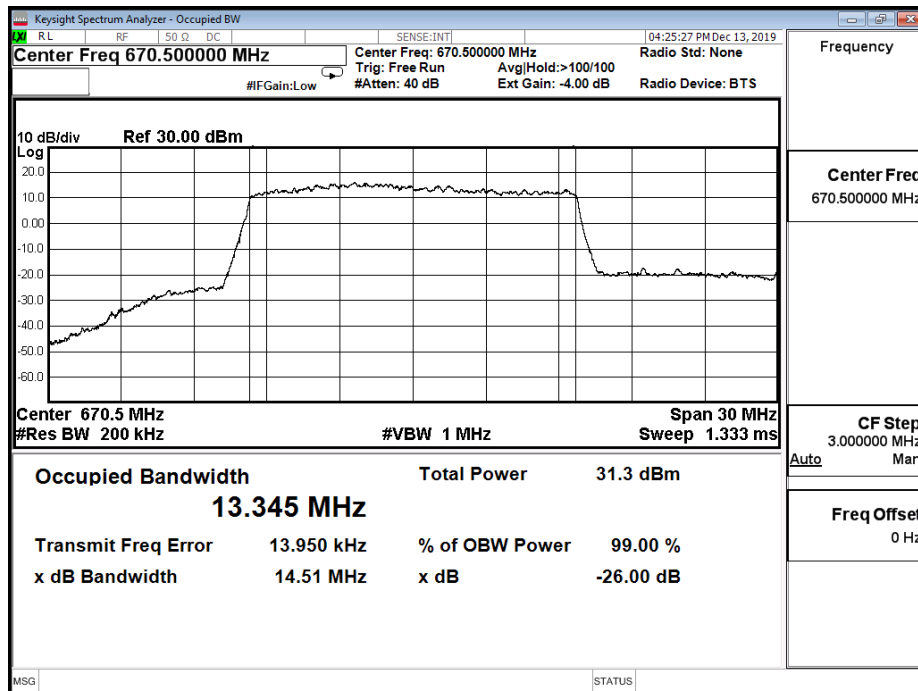
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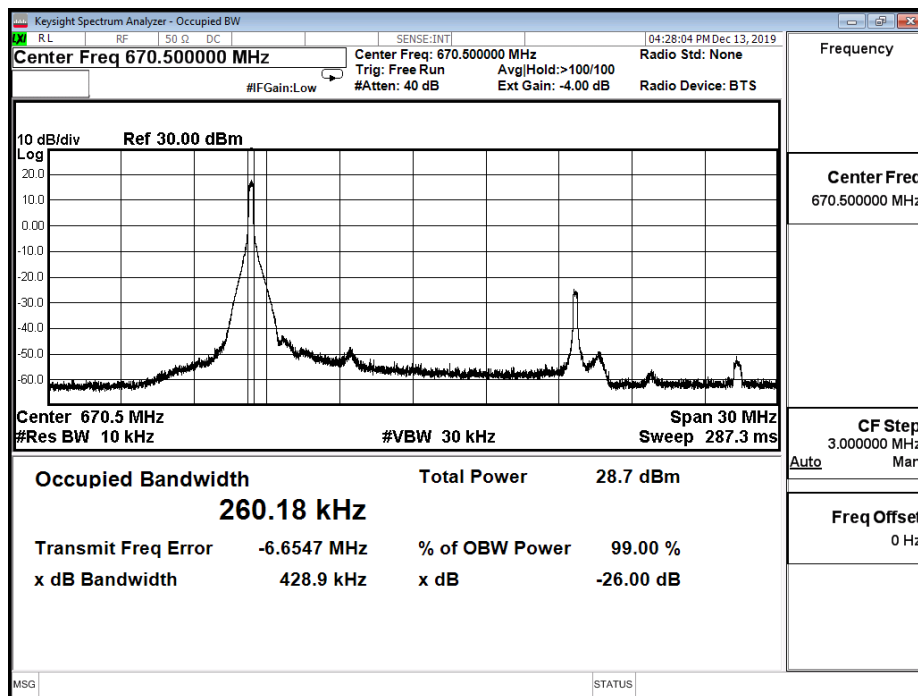
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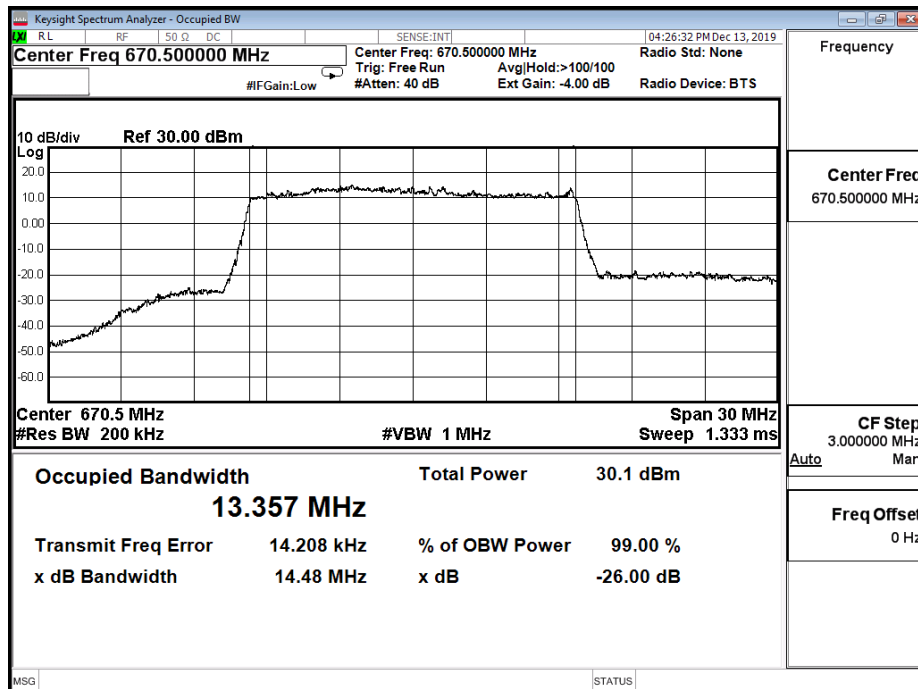
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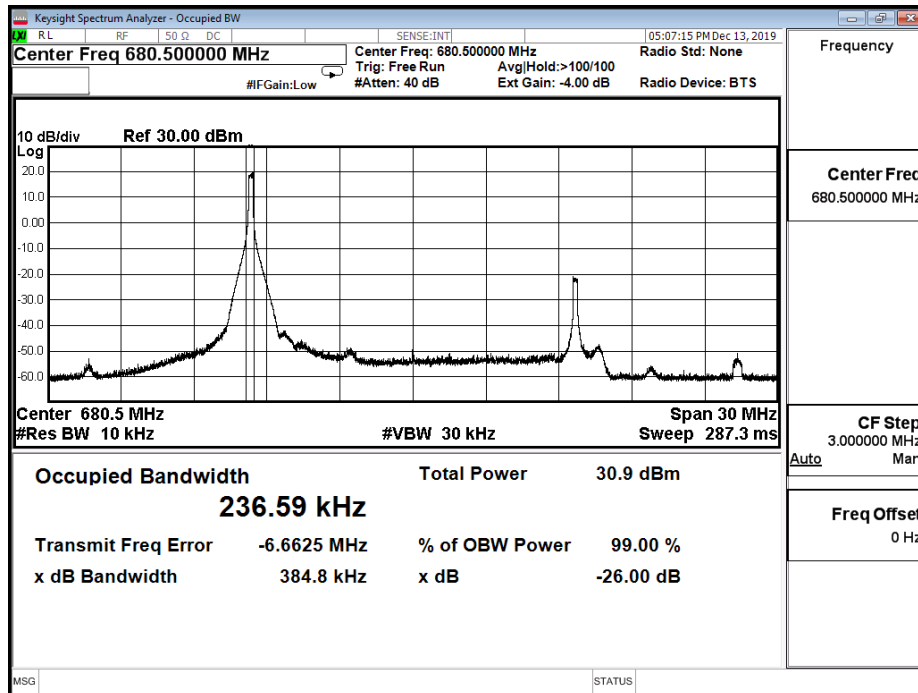
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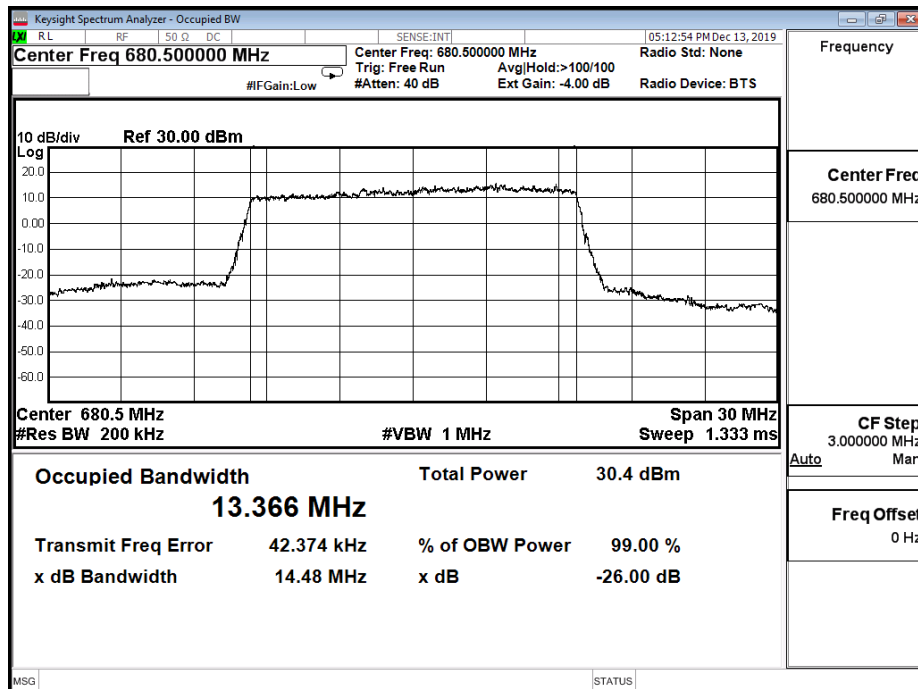
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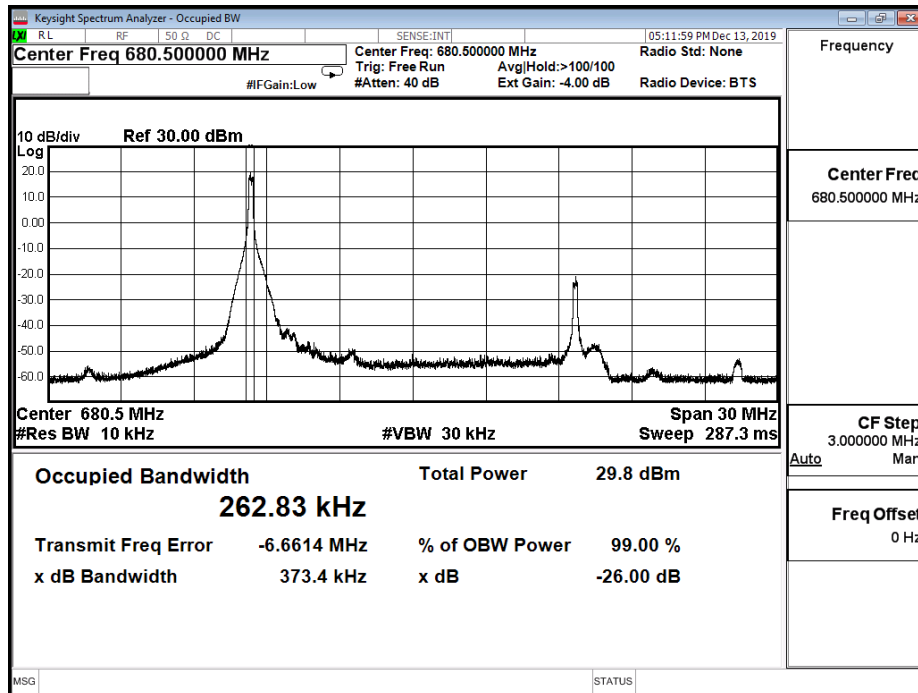
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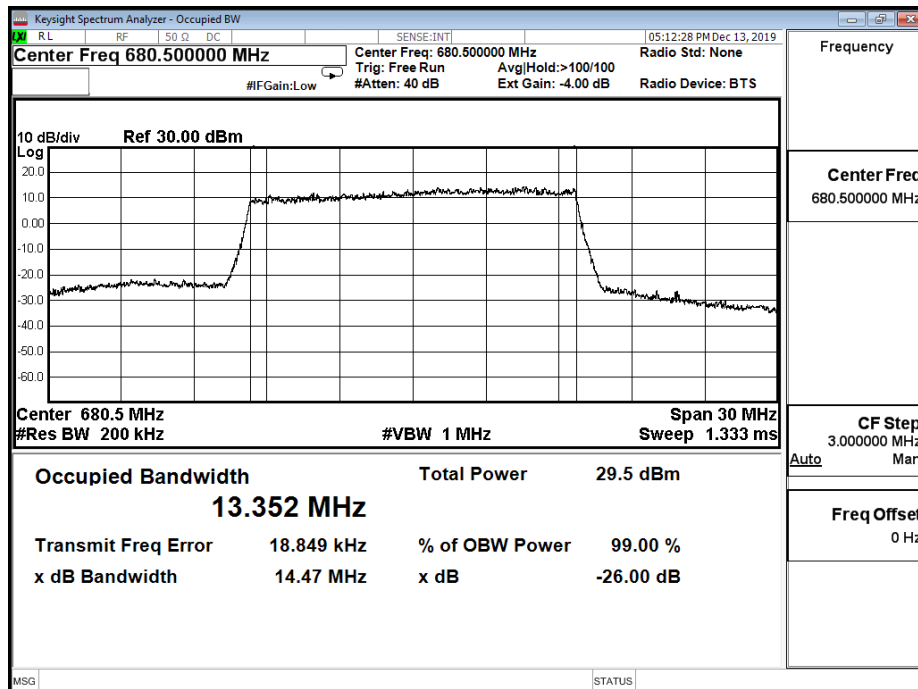
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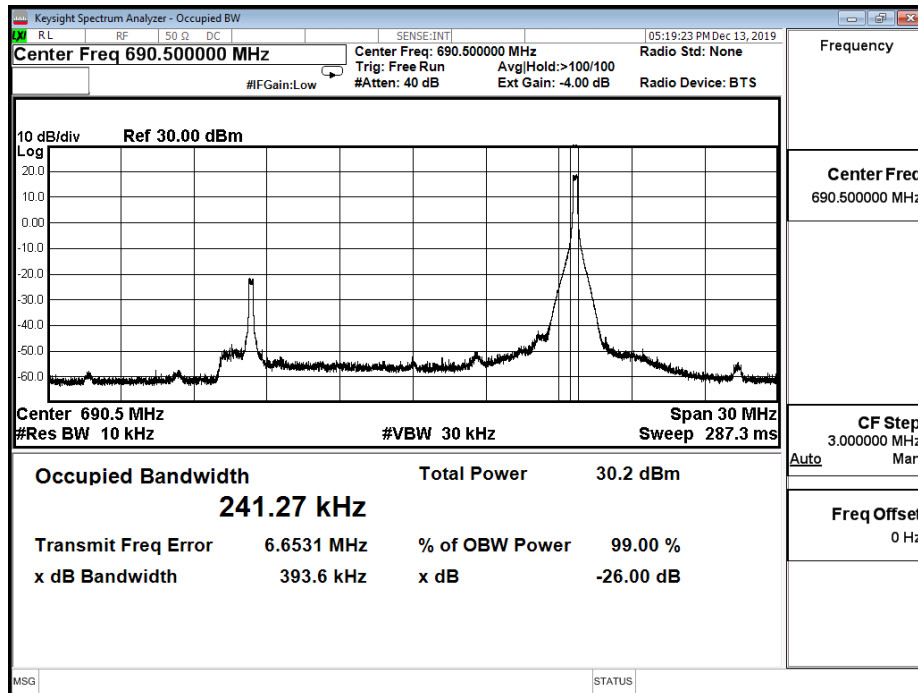
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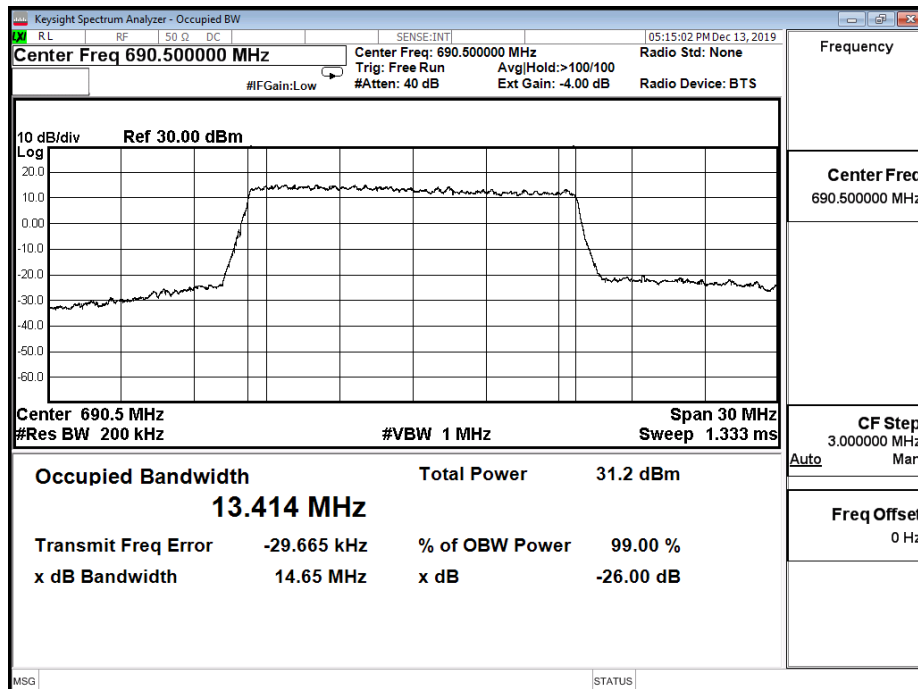
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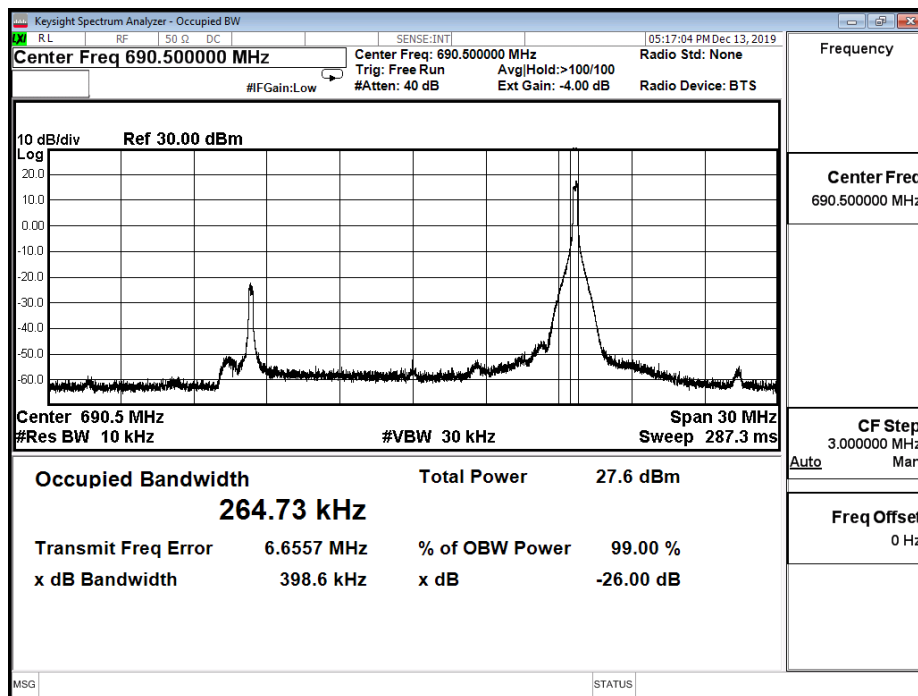
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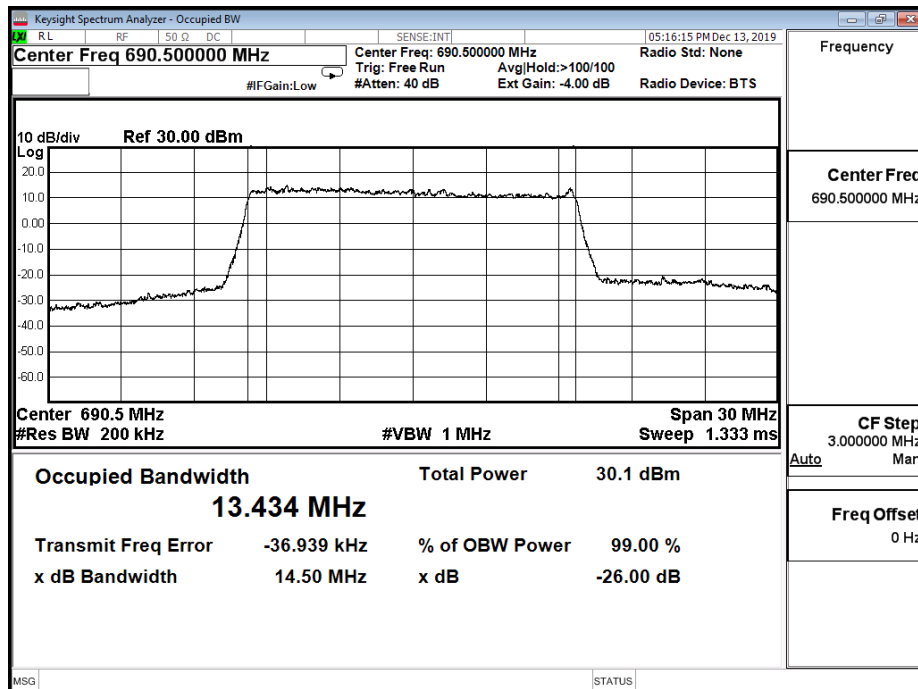
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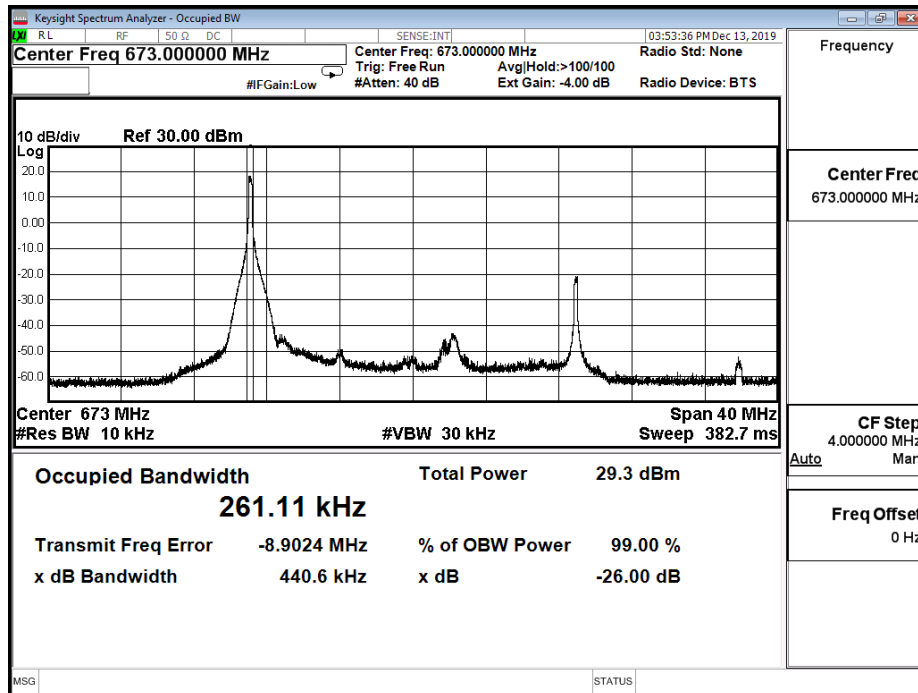
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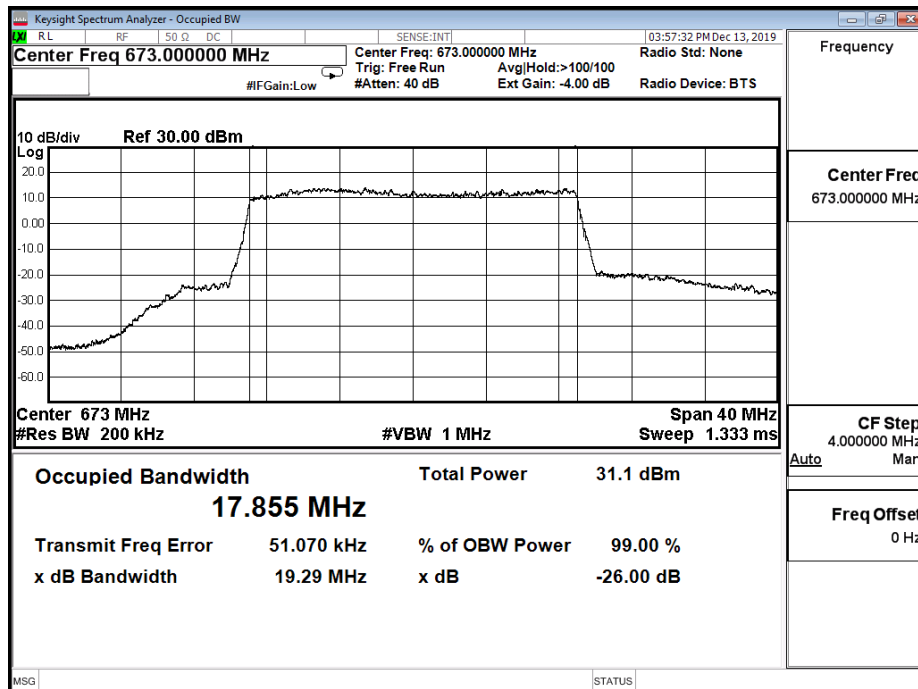
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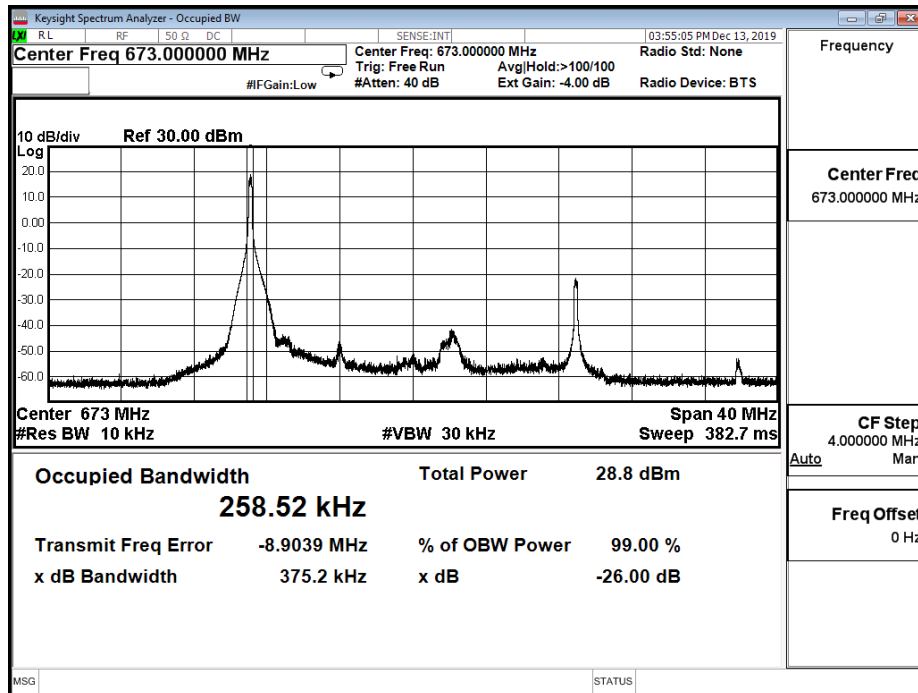
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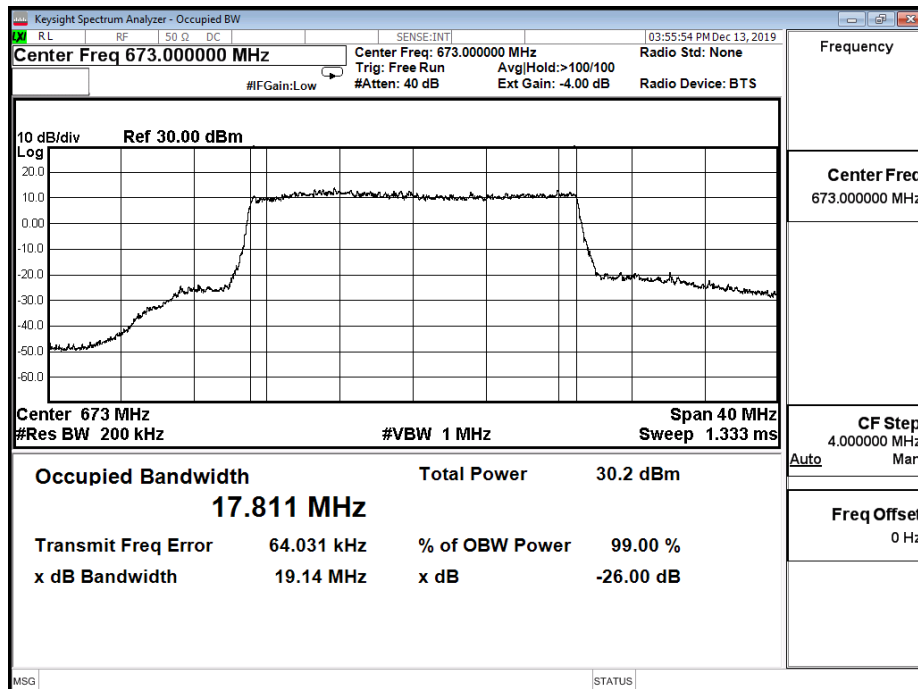
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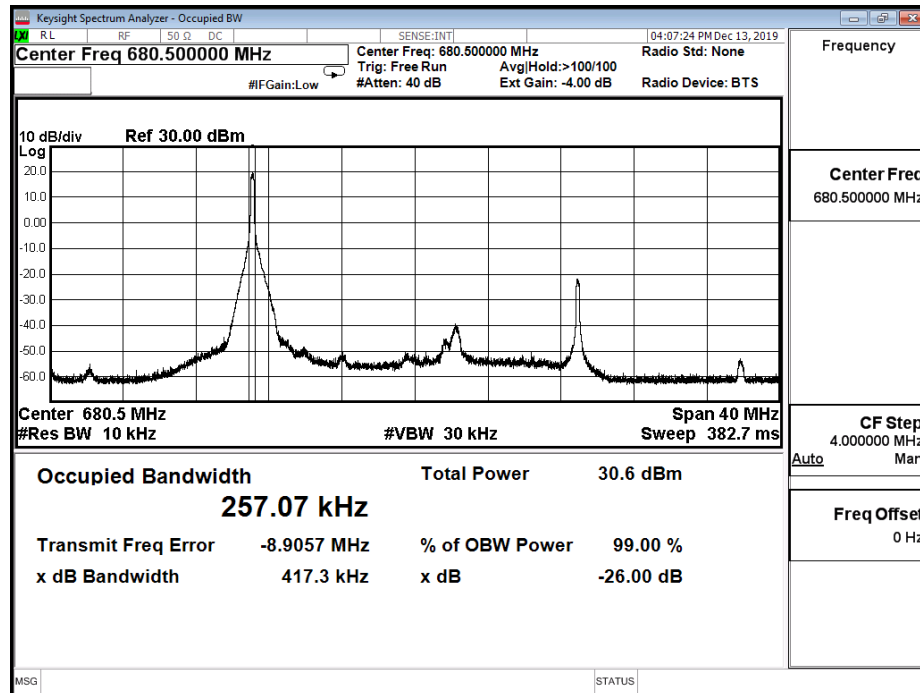
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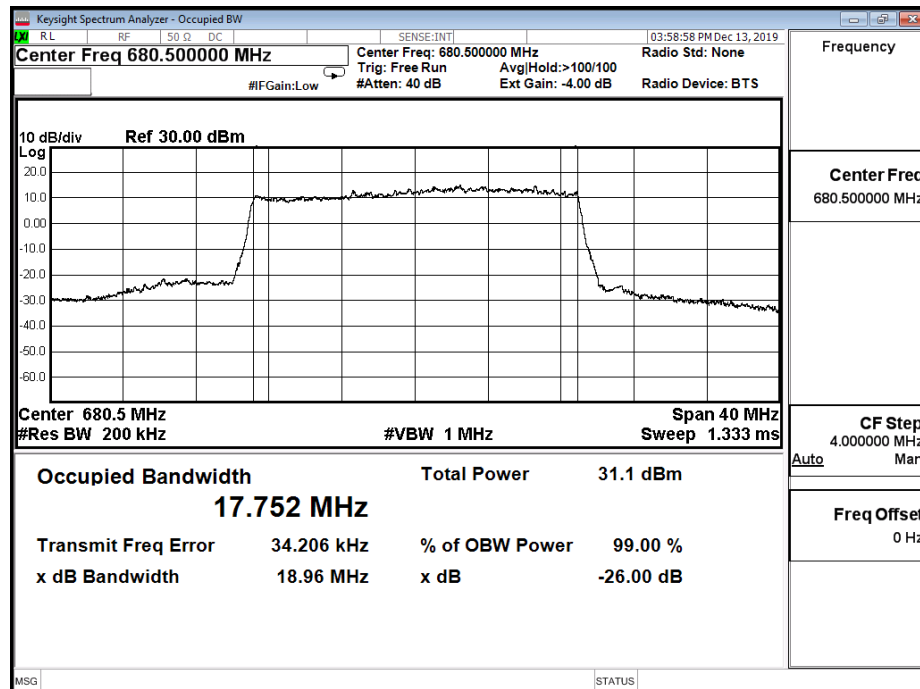
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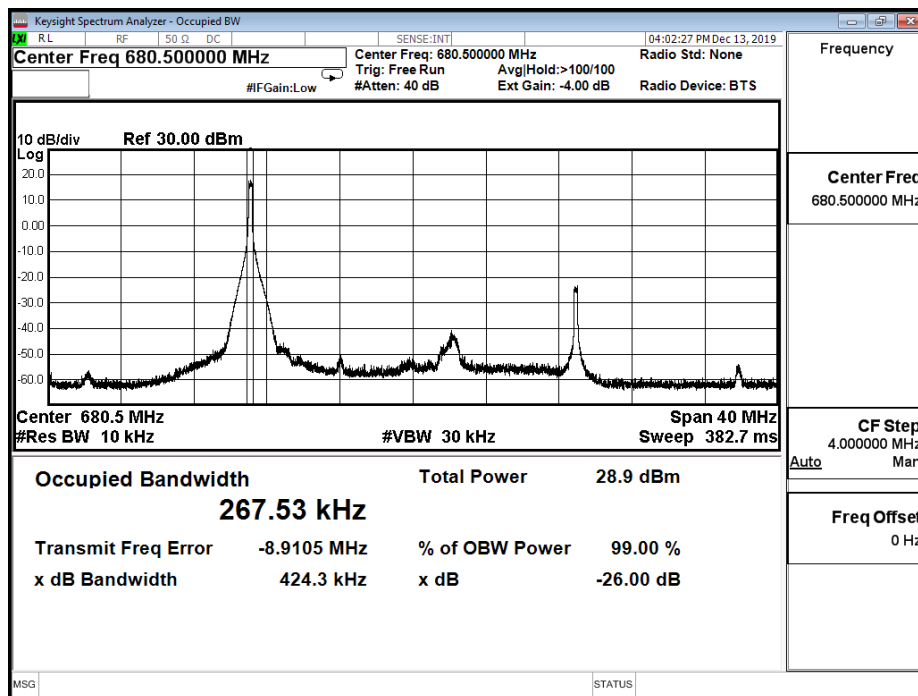
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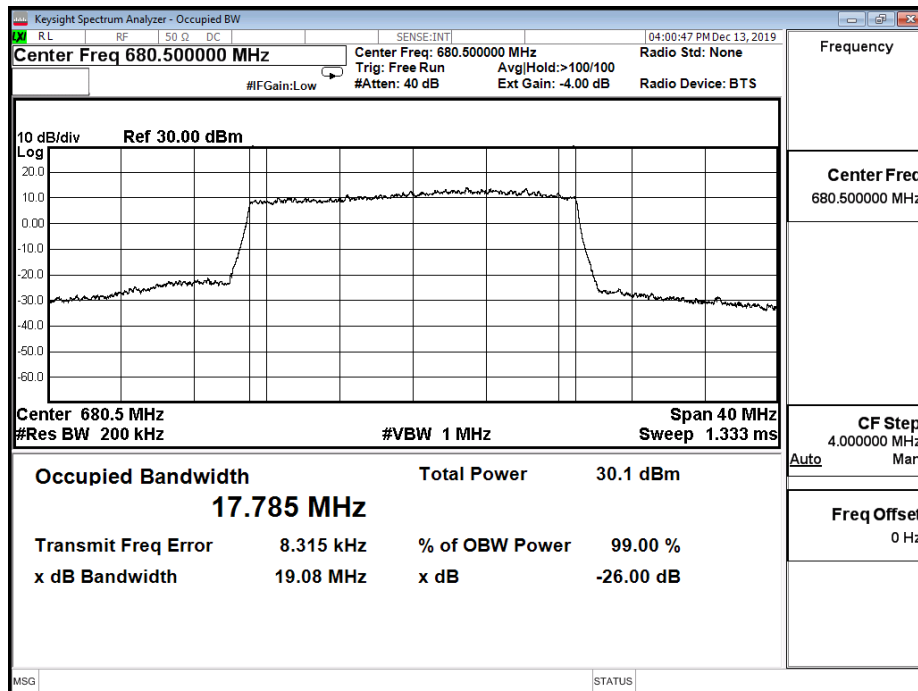
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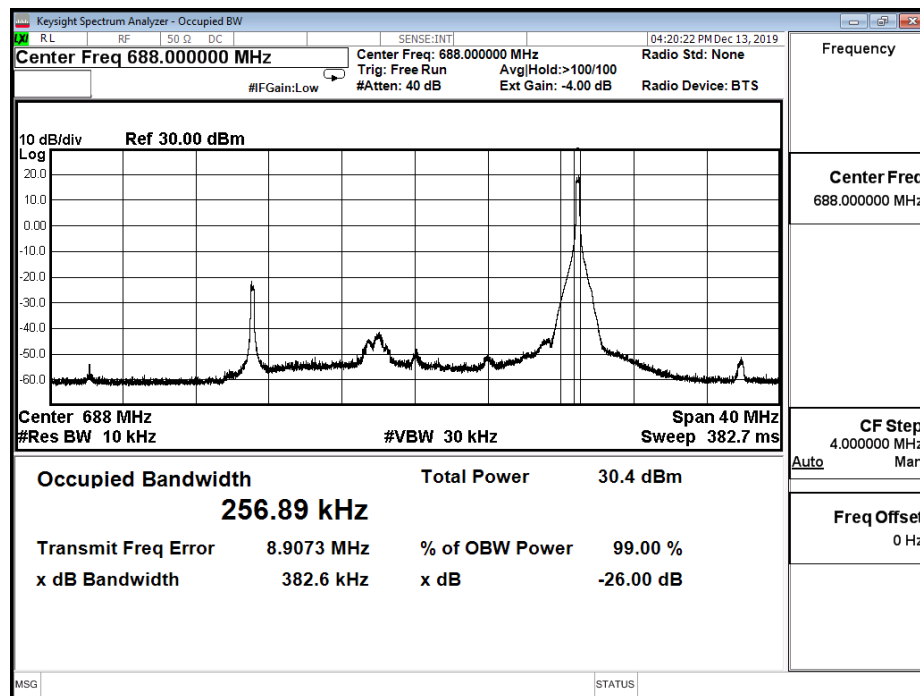
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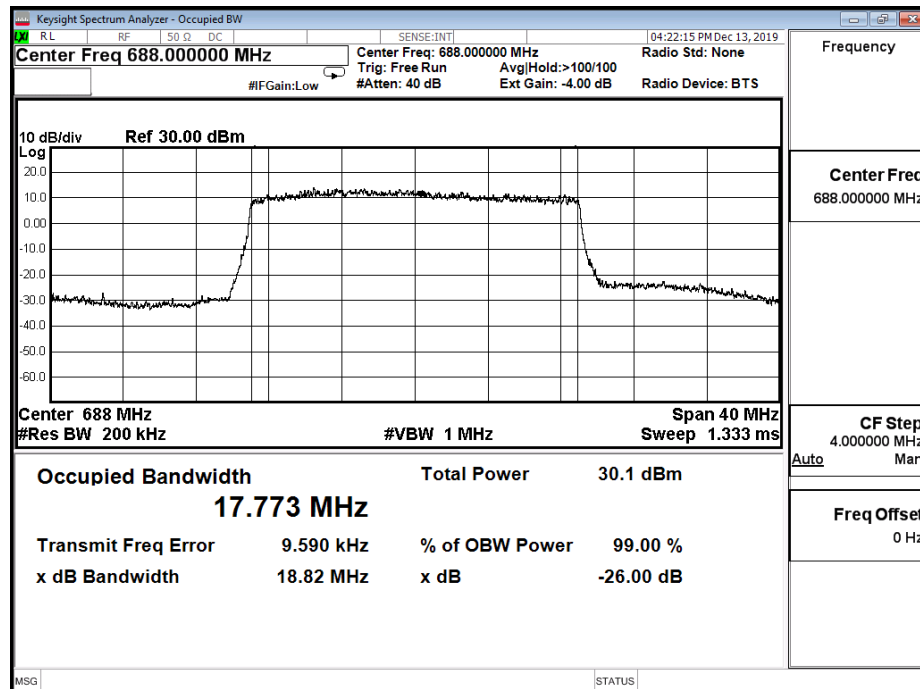
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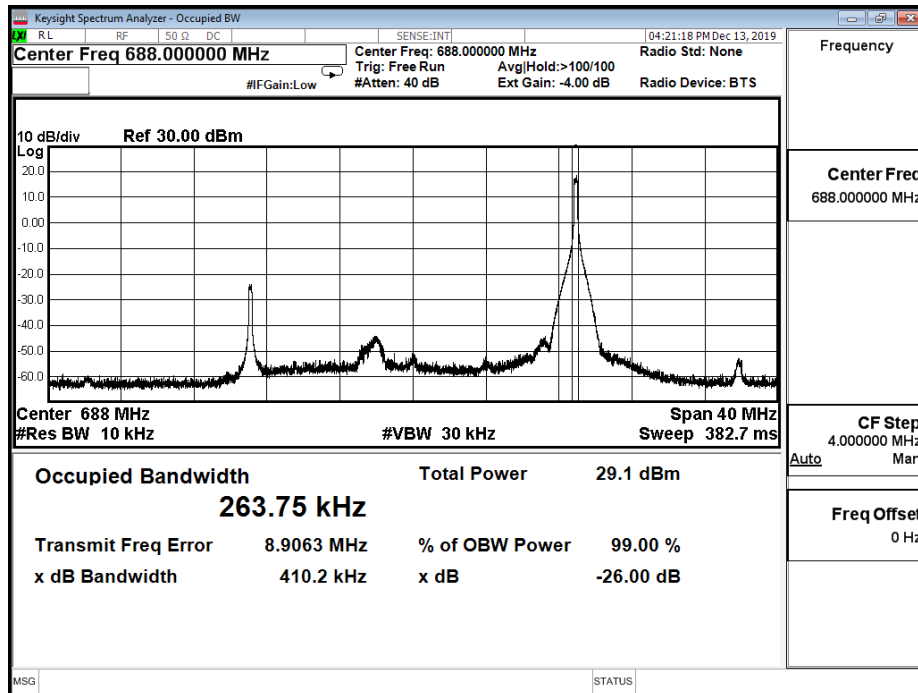
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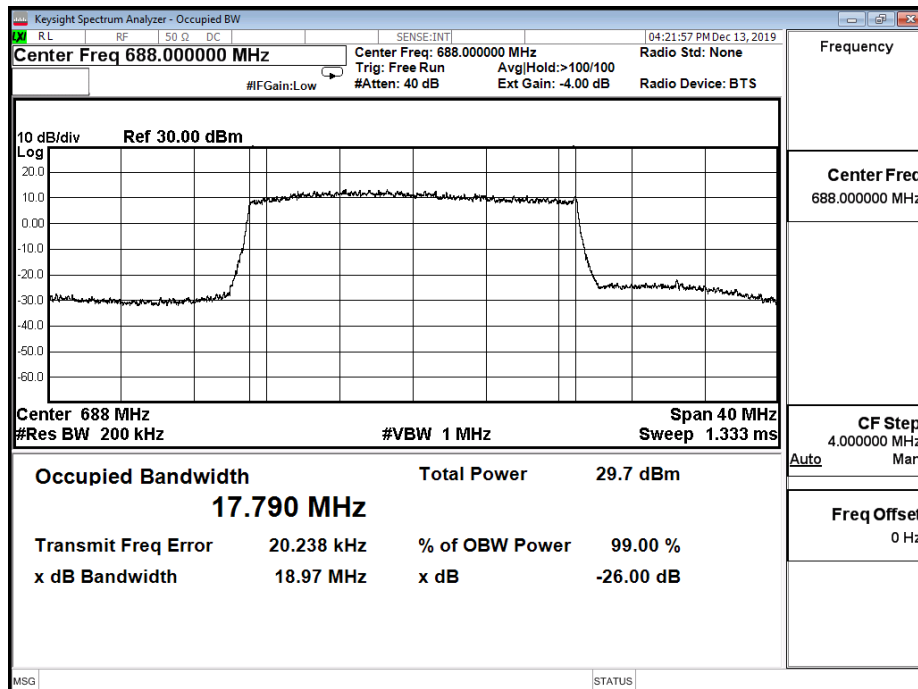
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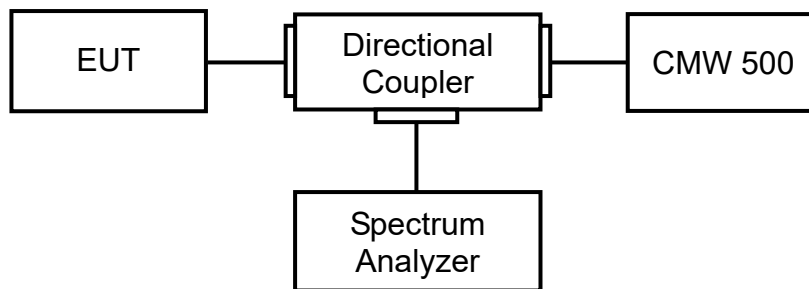


B71_CH133371_20M_16-QAM_100RB0



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. Limit

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13dB.

5.5. Test Result

Product	Module		
Test Item	Peak To Average Ratio		
Test Mode	Mode 1: LTE Band 2		
Date of Test	2019/12/17	Test Site	SR12-H
Temperature (°C)	23.0°C	Humidity (%RH)	59%RH

Band width (MHz)	Channel	Frequency (MHz)	Modulation	Peak (dBm)	Average (dBm)	PAPR (dB)
1.4M	18607	1850.7	QPSK	27.13	23.30	3.87
			16-QAM	27.01	22.11	4.87
	18900	1880	QPSK	27.40	23.43	3.93
			16-QAM	27.53	22.35	5.07
	19193	1909.3	QPSK	27.30	23.09	4.15
			16-QAM	27.62	22.67	4.93
3M	18615	1851.5	QPSK	27.12	23.18	3.93
			16-QAM	26.97	22.11	4.80
	18900	1880	QPSK	26.95	22.74	4.20
			16-QAM	27.40	22.59	4.76
	19185	1908.5	QPSK	27.03	22.88	4.13
			16-QAM	27.27	22.43	4.78
5M	18625	1852.5	QPSK	26.81	22.79	4.00
			16-QAM	26.94	21.86	5.04
	18900	1880	QPSK	26.75	22.62	4.11
			16-QAM	26.77	21.64	5.07
	19175	1907.5	QPSK	26.91	22.82	4.04
			16-QAM	27.01	22.14	4.80
10M	18650	1855	QPSK	26.98	22.75	4.13
			16-QAM	27.05	22.13	4.85
	18900	1880	QPSK	27.12	23.09	3.96
			16-QAM	27.30	22.51	4.74
	19150	1905	QPSK	27.24	23.13	4.02
			16-QAM	27.27	22.10	5.09

Band width (MHz)	Channel	Frequency (MHz)	Modulation	Peak (dBm)	Average (dBm)	PAPR (dB)
15M	18675	1857.5	QPSK	27.28	22.68	4.52
			16-QAM	27.30	22.14	5.09
	18900	1880	QPSK	26.97	22.87	4.07
			16-QAM	27.25	22.26	4.91
	19125	1902.5	QPSK	27.19	22.60	4.54
			16-QAM	27.05	21.53	5.43
20M	18700	1860	QPSK	27.39	22.79	4.50
			16-QAM	27.59	22.12	5.37
	18900	1880	QPSK	26.89	22.74	4.09
			16-QAM	26.79	21.51	5.20
	19100	1900	QPSK	27.88	23.22	4.61
			16-QAM	28.01	22.84	5.07

B2_CH18607_1.4M_1RB2_QPSK



Date: 17.DEC.2019 17:35:08

B2_CH18607_1.4M_1RB2_16-QAM

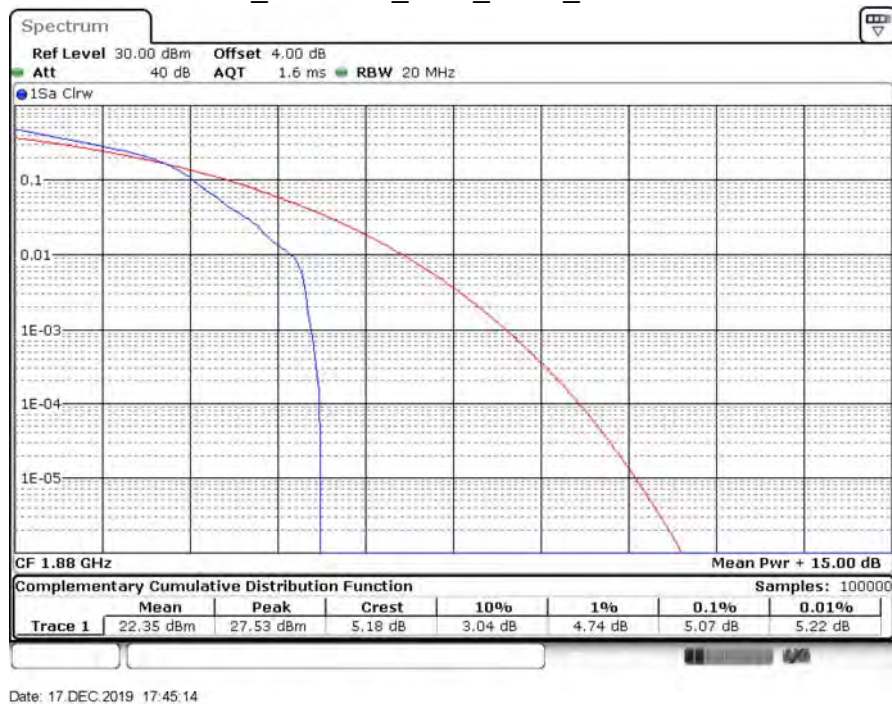


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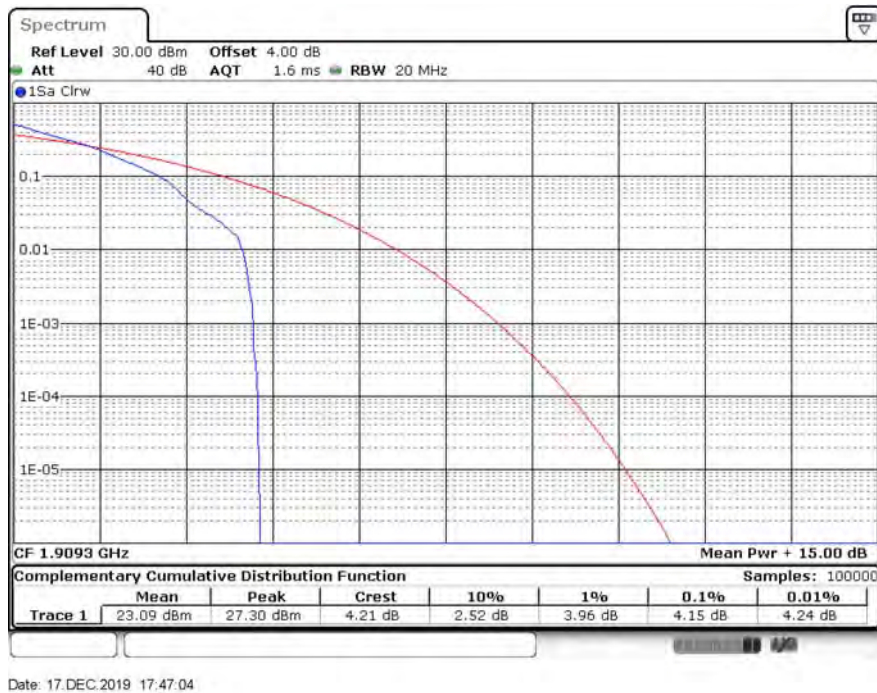
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B2_CH19193_1.4M_1RB2_QPSK



B2_CH19193_1.4M_1RB2_16-QAM

