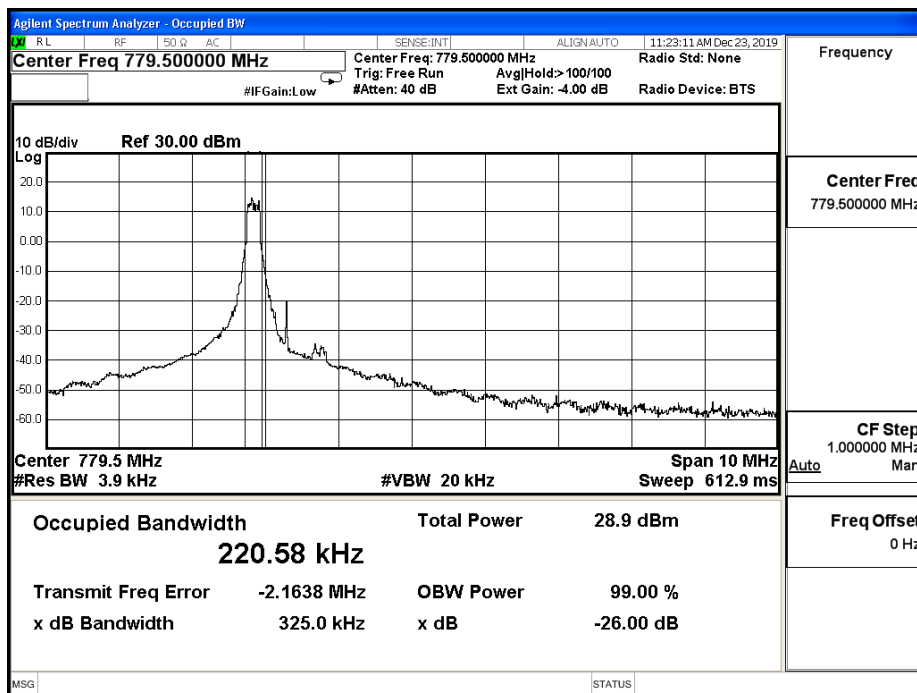


Product	M2M DATA MODULE		
Test Item	Occupied Bandwidth		
Test Mode	Mode 4: LTE Band 13		
Date of Test	2019/12/20	Test Site	SR12-H
Temperature (°C)	22.0°C	Humidity (%RH)	59%RH

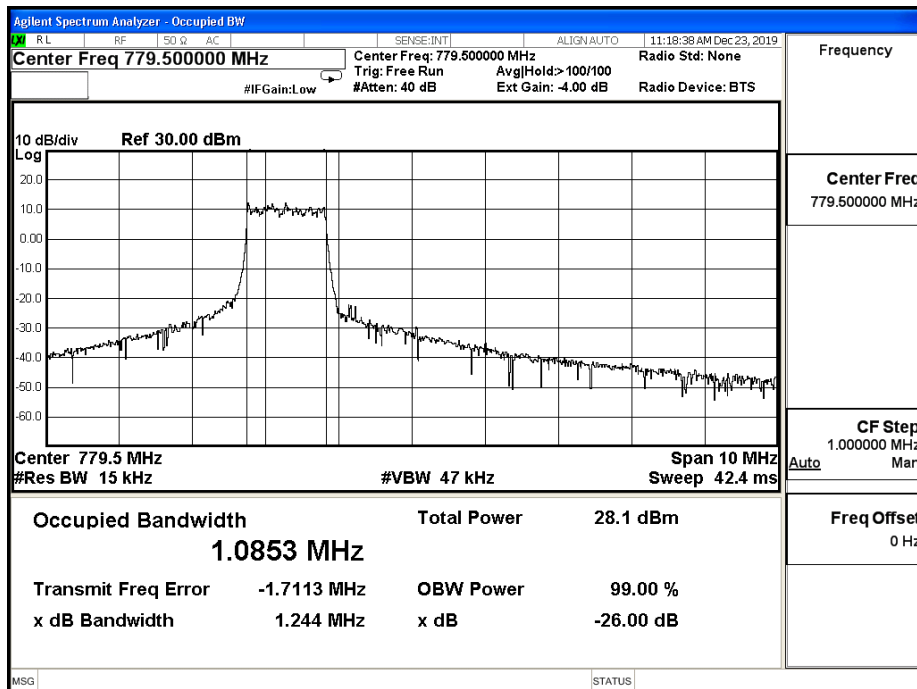
LTE Band 13_1RB					
Band width (MHz)	Modulation	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
			26dB BW	99% BW	
5M	QPSK	779.5	0.325	0.220	N/A
		782.0	0.325	0.222	N/A
		784.5	0.324	0.207	N/A
	16-QAM	779.5	0.317	0.215	N/A
		782.0	0.317	0.215	N/A
		784.5	0.330	0.217	N/A
10M	QPSK	782 low	0.338	0.219	N/A
			0.333	0.202	N/A
	16-QAM	782 high	0.340	0.226	N/A
			0.328	0.220	N/A

LTE Band 13_Full RB					
Band width (MHz)	Modulation	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
			26dB BW	99% BW	
5M	QPSK	779.5	1.244	1.085	N/A
		782.0	1.249	1.089	N/A
		784.5	1.242	1.087	N/A
	16-QAM	779.5	1.078	0.913	N/A
		782.0	1.086	0.912	N/A
		784.5	1.091	0.913	N/A
10M	QPSK	782 low	1.231	1.088	N/A
			1.256	1.091	N/A
	16-QAM	782 high	1.120	0.923	N/A
			1.100	0.924	N/A

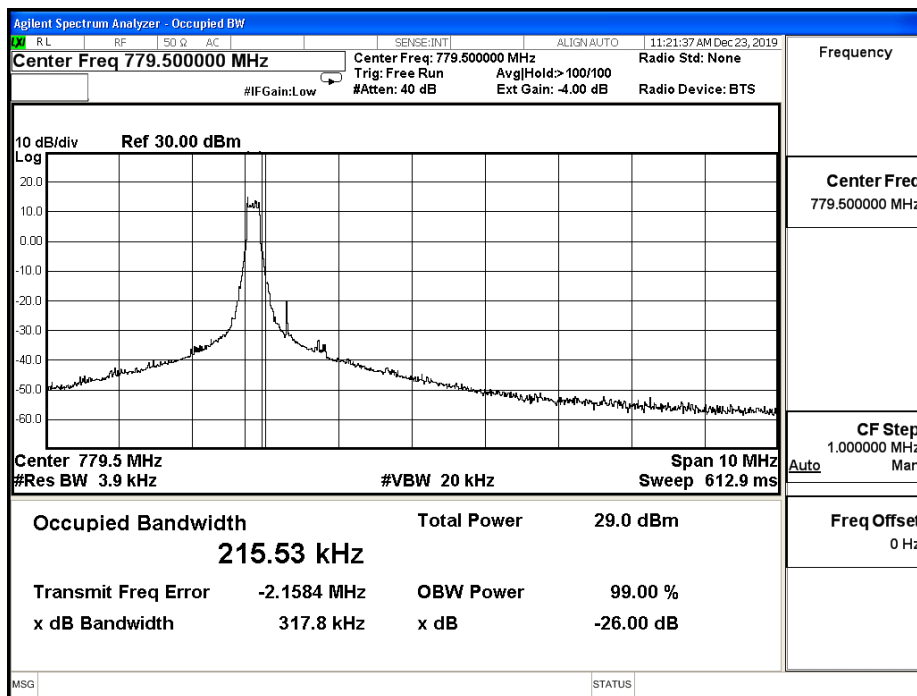
B13_CH23205_5M_QPSK_1RB0



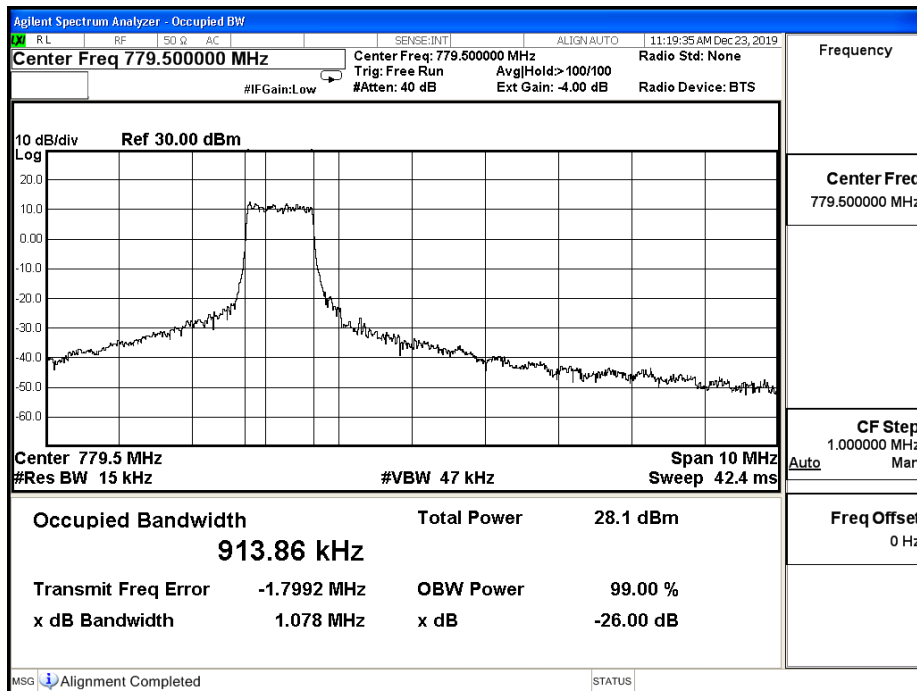
B13_CH23205_5M_QPSK_6RB0



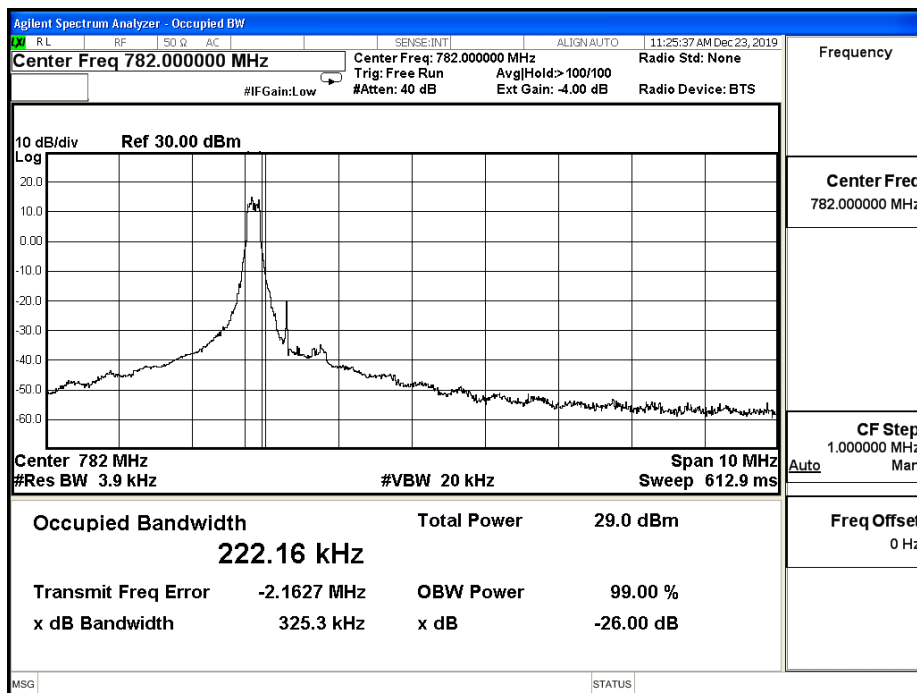
B13_CH23205_5M_16-QAM_1RB0



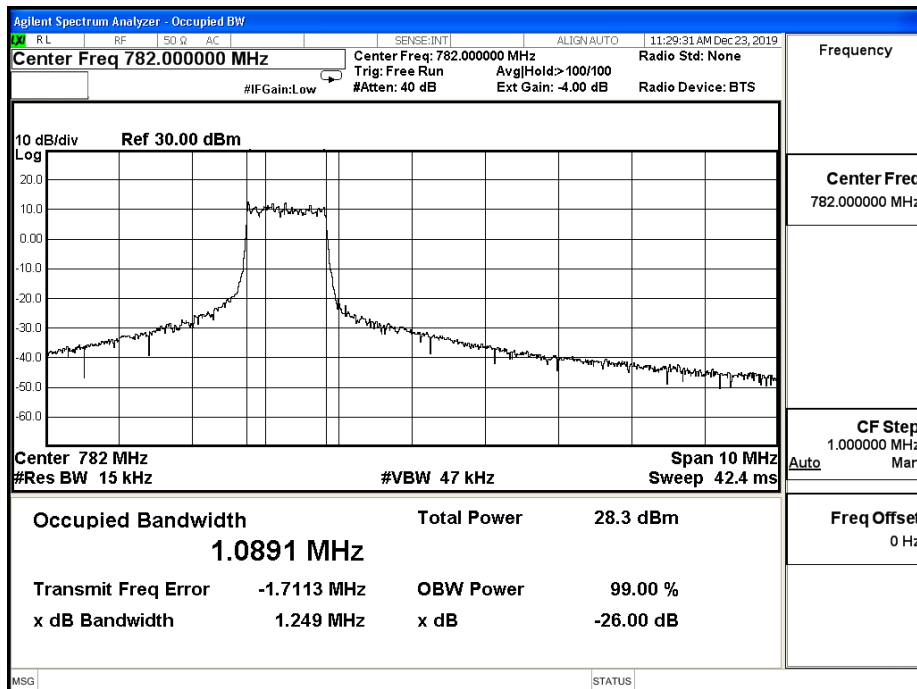
B13_CH23205_5M_16-QAM_5RB0



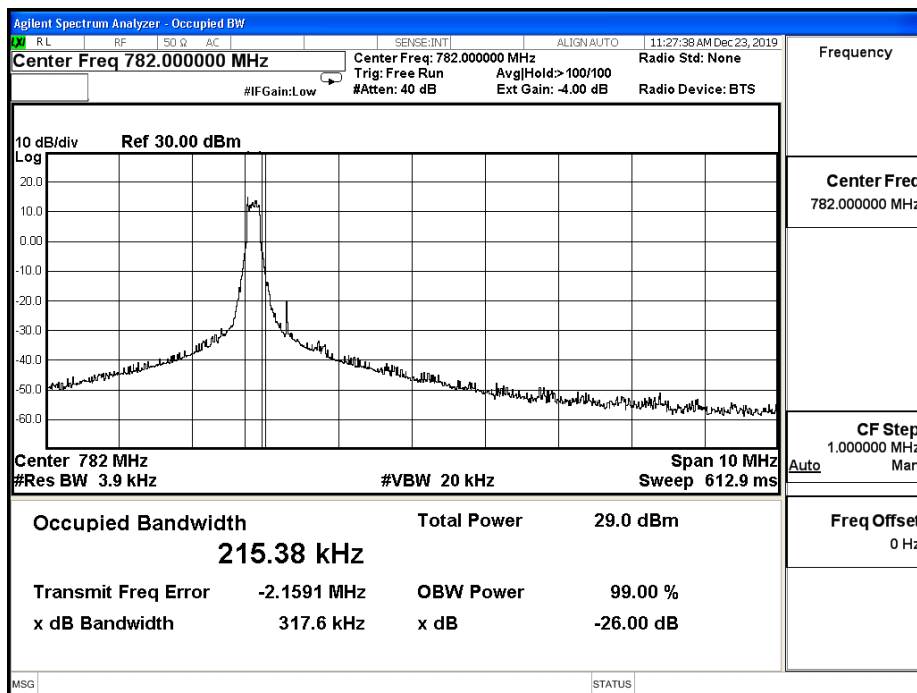
B13_CH23230_5M_QPSK_1RB0



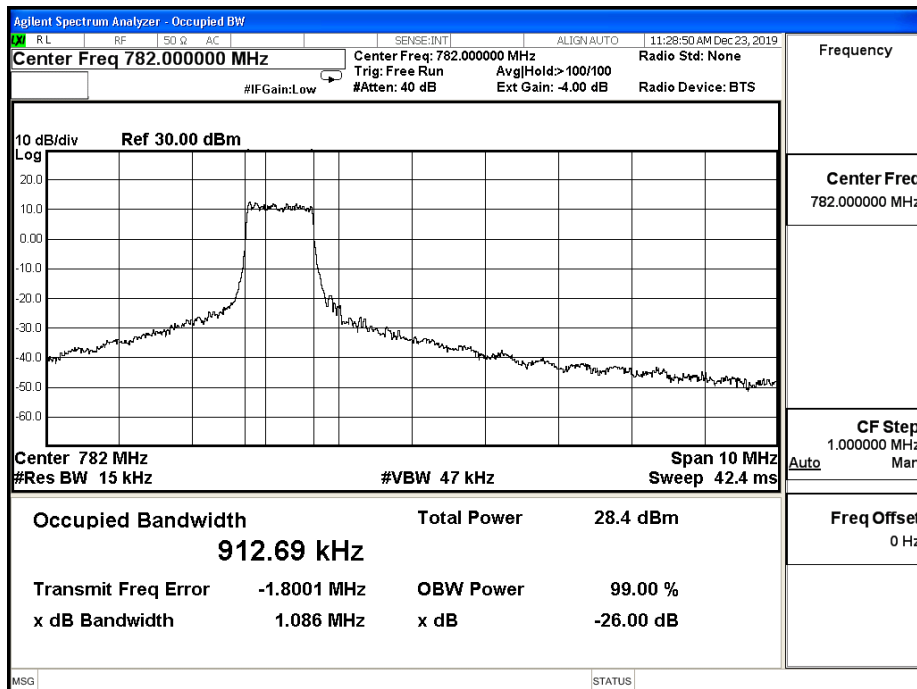
B13_CH23230_5M_QPSK_6RB0



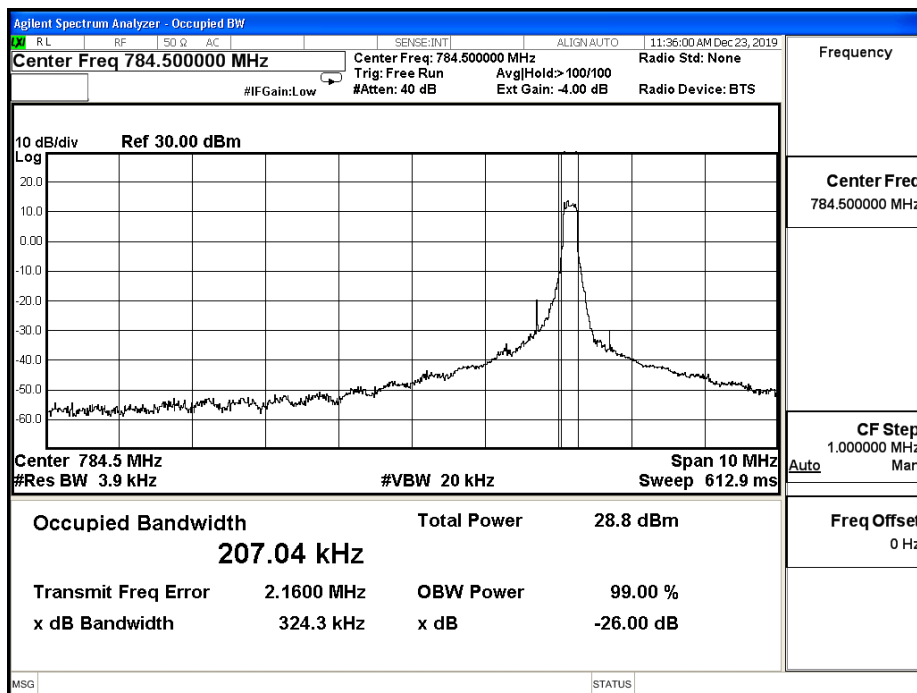
B13_CH23230_5M_16-QAM_1RB0



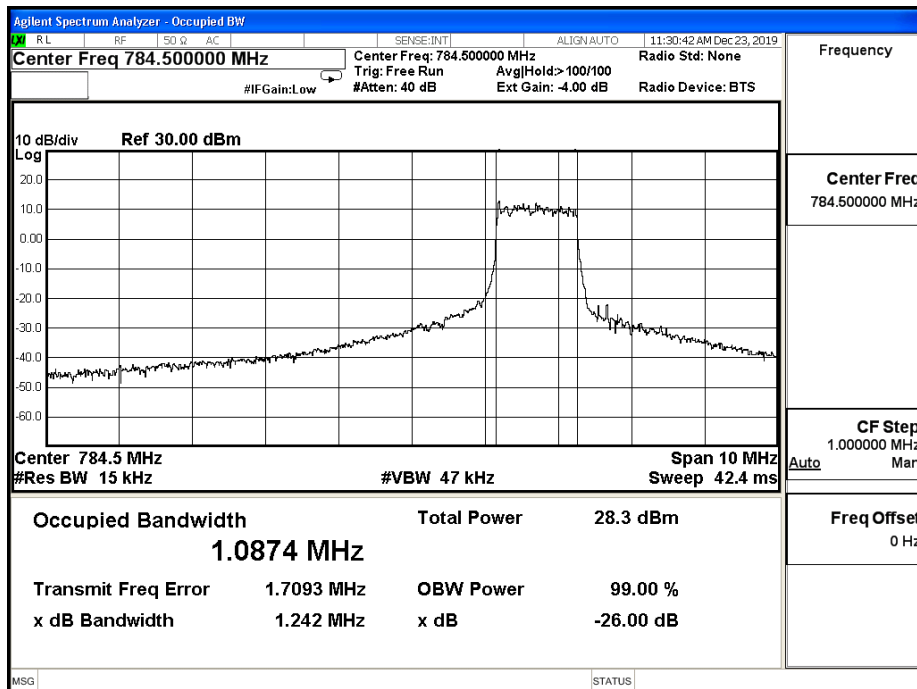
B13_CH23230_5M_16-QAM_5RB0



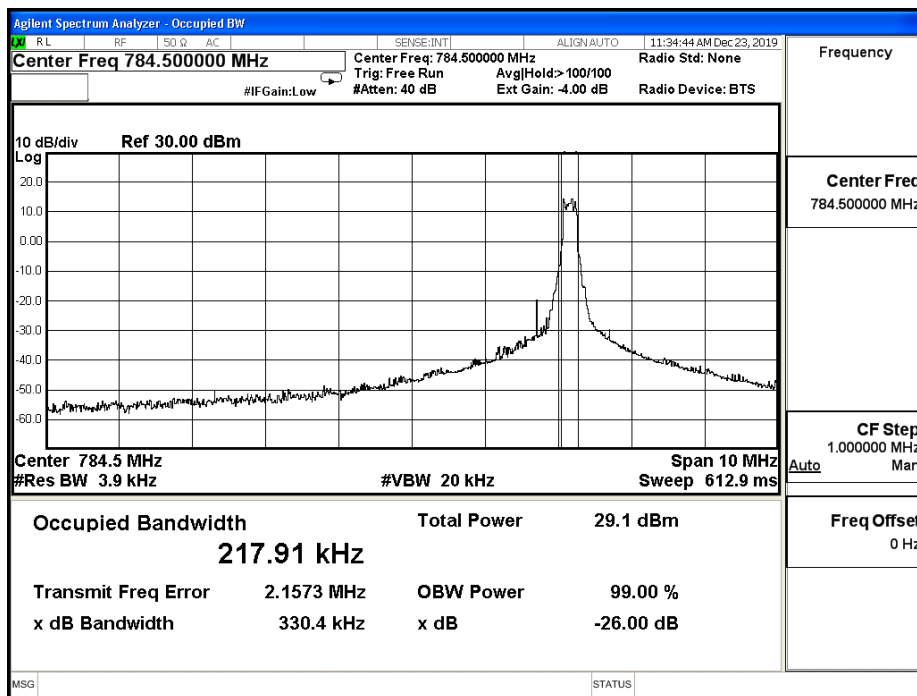
B13_CH23255_5M_QPSK_1RB5



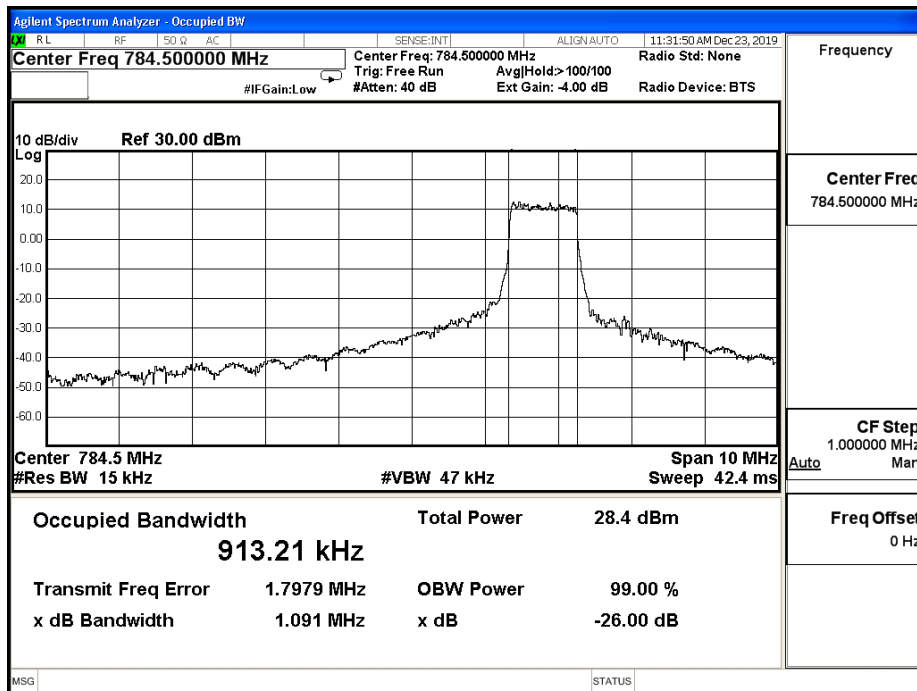
B13_CH23255_5M_QPSK_6RB0



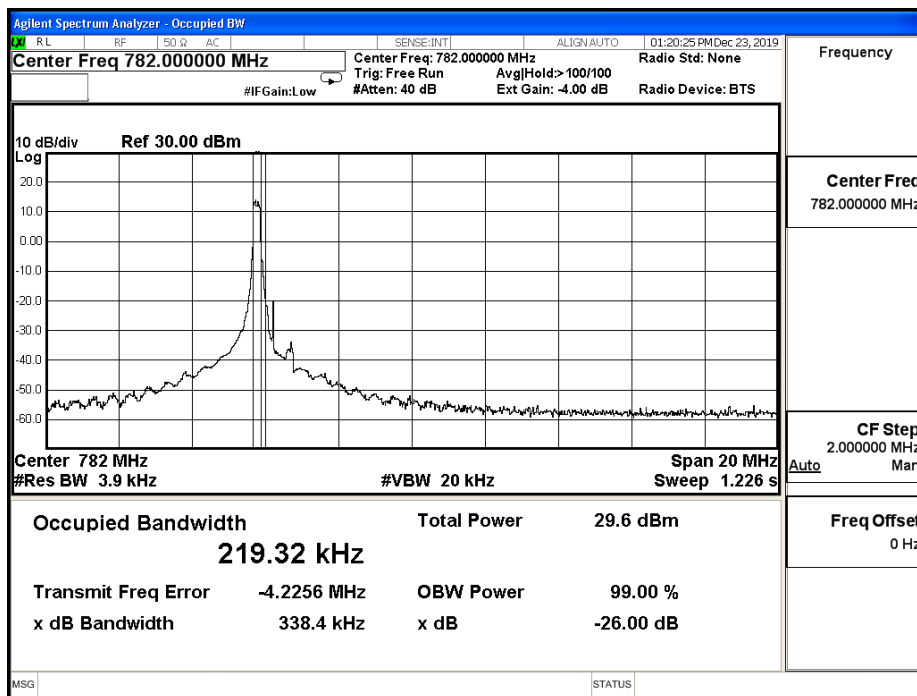
B13_CH23255_5M_16-QAM_1RB5



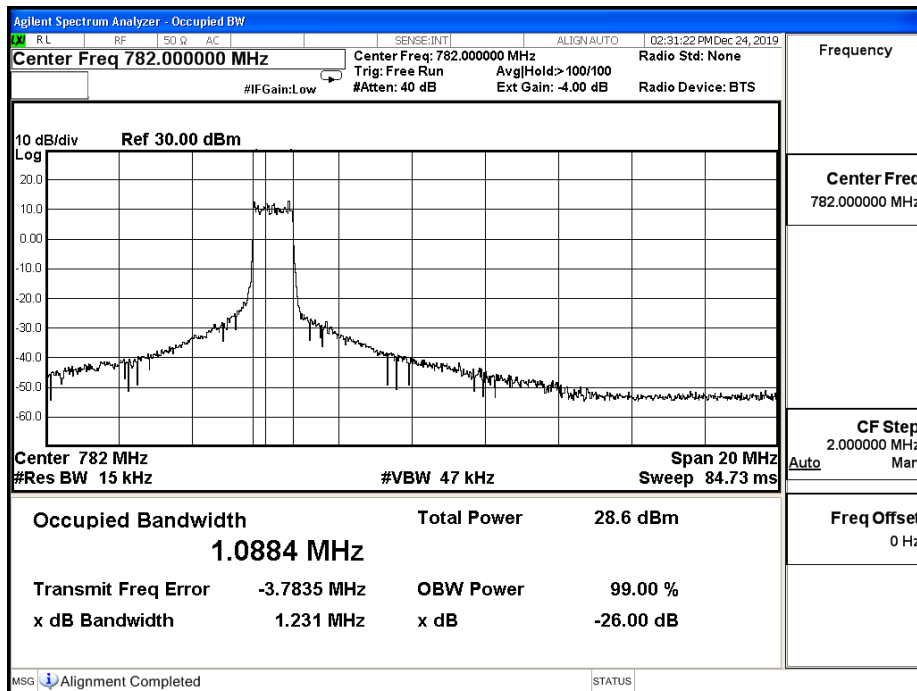
B13_CH23255_5M_16-QAM_5RB1



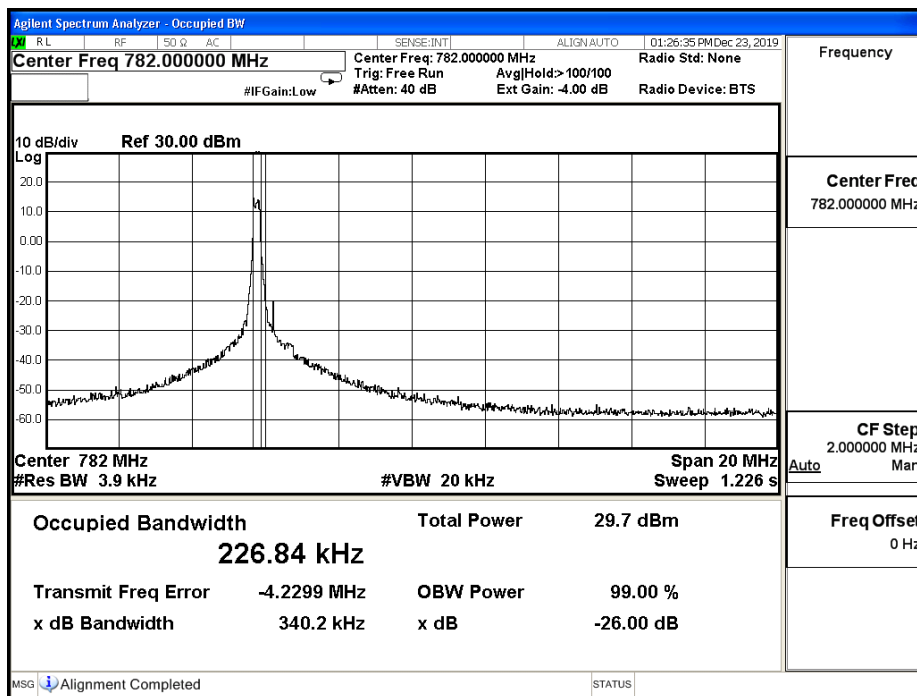
B13__CH23230_10M_QPSK_1RB0_low



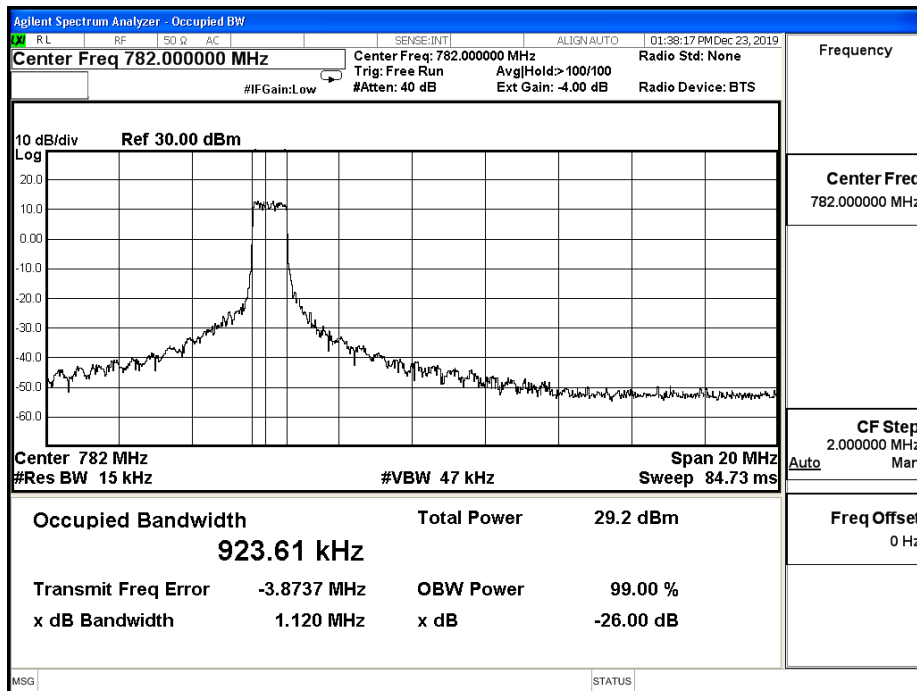
B13__CH23230_10M_QPSK_6RB0_low



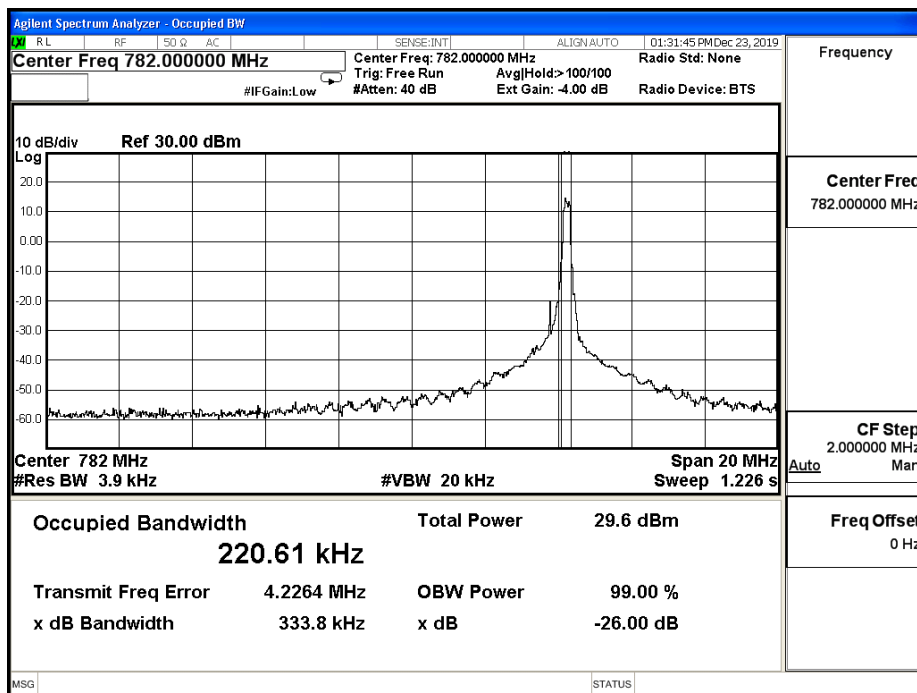
B13__CH23230_10M_16-QAM_1RB0_low



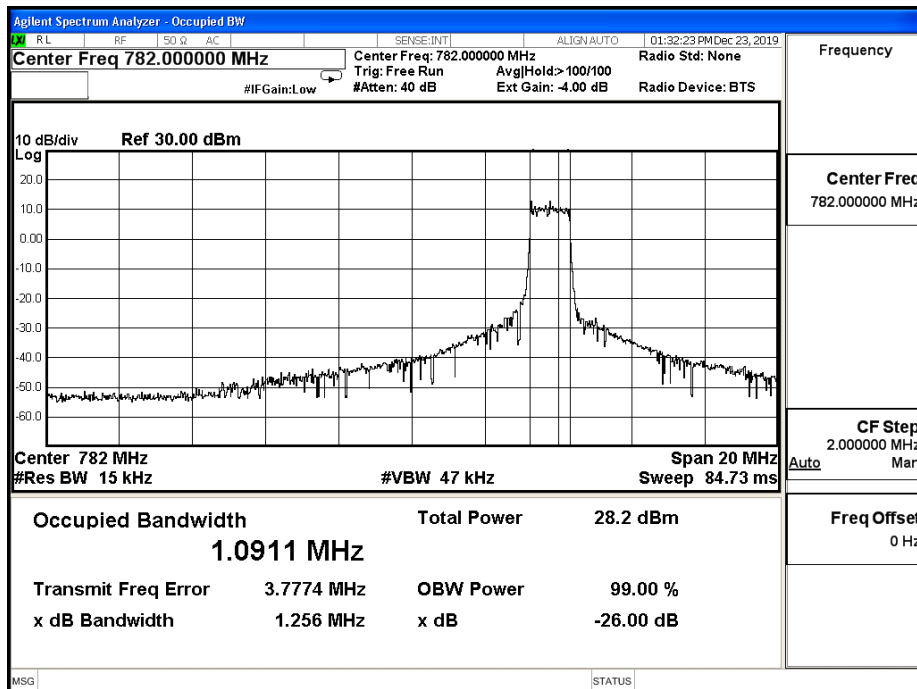
B13__CH23230_10M_16-QAM_5RB0_low



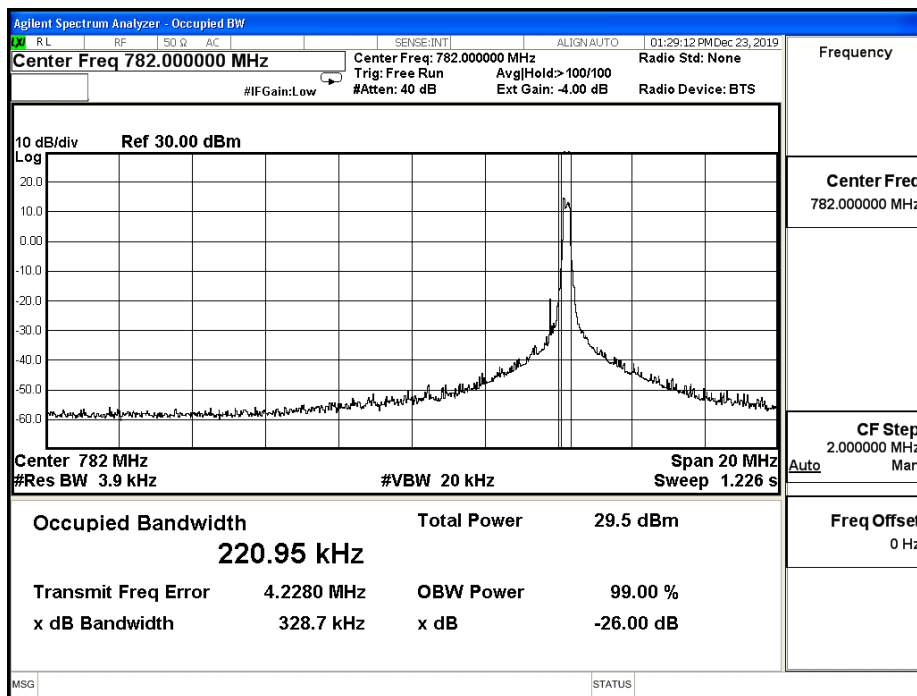
B13_CH22320_10M_QPSK_1RB5_high



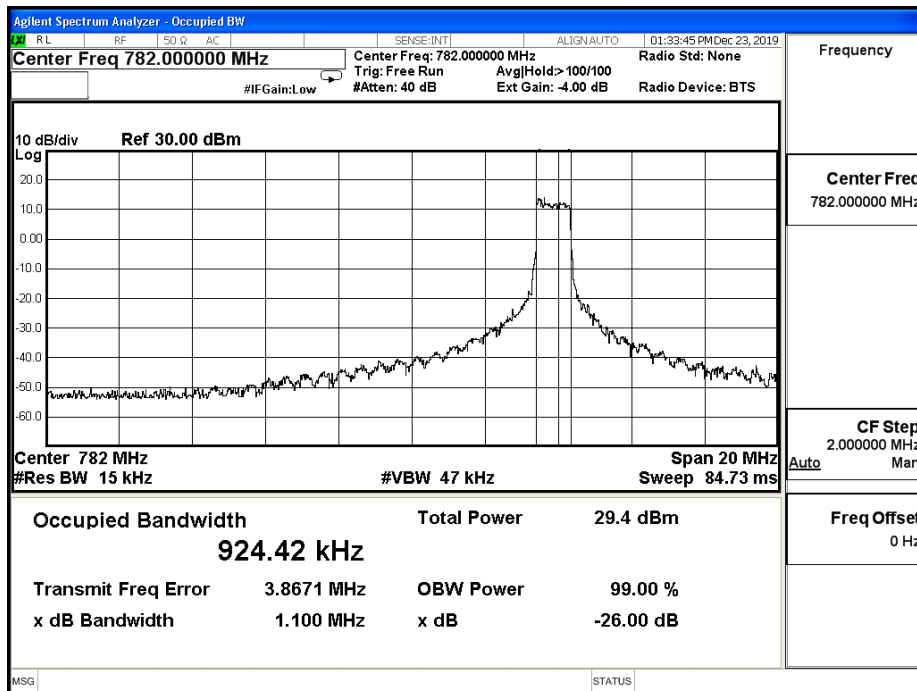
B13_CH23230_10M_QPSK_6RB0_high



B13_CH23230_10M_16-QAM_1RB5_high



B13_CH23230_10M_16-QAM_5RB1_high



Product	M2M DATA MODULE		
Test Item	Occupied Bandwidth		
Test Mode	Mode 5: LTE Band 25		
Date of Test	2019/12/20	Test Site	SR12-H
Temperature (°C)	22.0°C	Humidity (%RH)	59%RH

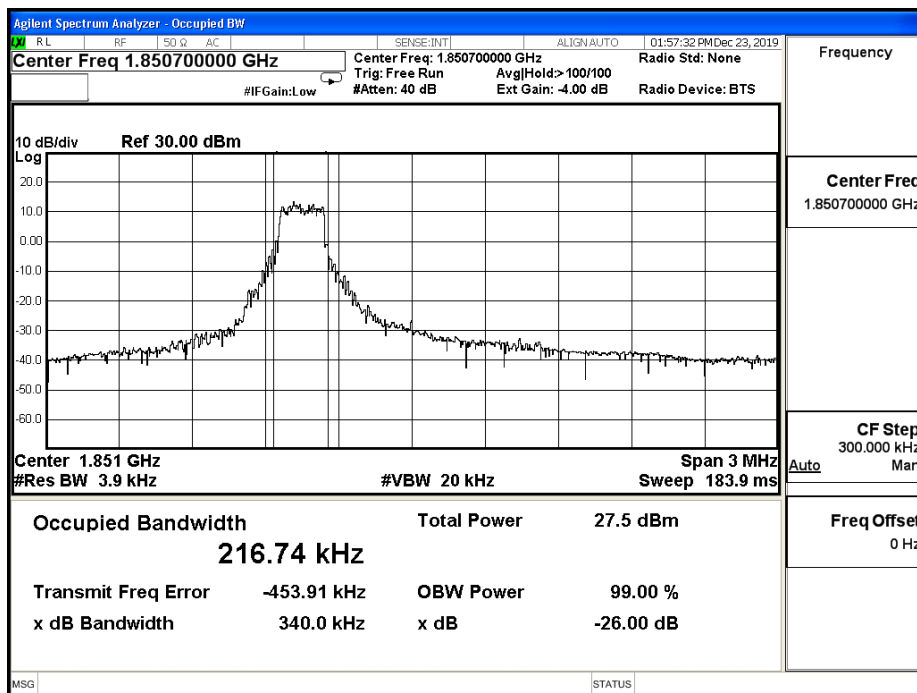
LTE Band 25_1RB					
Band width (MHz)	Modulation	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
			26dB BW	99% BW	
1.4M	QPSK	1850.7	0.340	0.216	N/A
		1882.5	0.347	0.214	N/A
		1914.3	0.336	0.204	N/A
	16-QAM	1850.7	0.310	0.213	N/A
		1882.5	0.310	0.210	N/A
		1914.3	0.318	0.209	N/A
3M	QPSK	1851.5	0.348	0.222	N/A
		1882.5	0.351	0.222	N/A
		1913.5	0.333	0.213	N/A
	16-QAM	1851.5	0.315	0.220	N/A
		1882.5	0.342	0.219	N/A
		1913.5	0.326	0.217	N/A
5M	QPSK	1852.5	0.322	0.223	N/A
		1882.5	0.328	0.225	N/A
		1912.5	0.322	0.206	N/A
	16-QAM	1852.5	0.321	0.222	N/A
		1882.5	0.310	0.218	N/A
		1912.5	0.327	0.220	N/A
10M	QPSK	1855.0	0.341	0.220	N/A
		1882.5	0.343	0.219	N/A
		1910.0	0.335	0.215	N/A
	16-QAM	1855.0	0.330	0.224	N/A
		1882.5	0.330	0.225	N/A
		1910.0	0.329	0.219	N/A

LTE Band 25_1RB					
Band width (MHz)	Modulation	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
			26dB BW	99% BW	
15M	QPSK	1857.5	0.368	0.239	N/A
		1882.5	0.371	0.243	N/A
		1907.5	0.366	0.247	N/A
	16-QAM	1857.5	0.375	0.235	N/A
		1882.5	0.370	0.236	N/A
		1907.5	0.381	0.247	N/A
20M	QPSK	1860.0	0.364	0.244	N/A
		1882.5	0.364	0.246	N/A
		1905.0	0.362	0.237	N/A
	16-QAM	1860.0	0.381	0.246	N/A
		1882.5	0.352	0.238	N/A
		1905.0	0.351	0.237	N/A

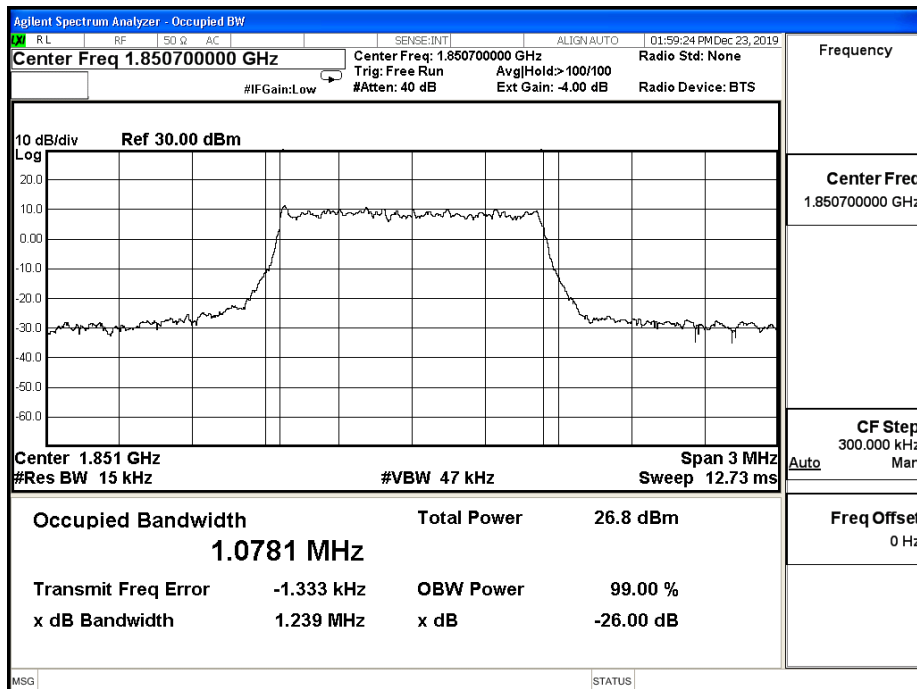
LTE Band 25_Full RB					
Band width (MHz)	Modulation	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
			26dB BW	99% BW	
1.4M	QPSK	1850.7	1.239	1.078	N/A
		1882.5	1.240	1.079	N/A
		1914.3	1.235	1.076	N/A
	16-QAM	1850.7	1.062	0.907	N/A
		1882.5	1.065	0.907	N/A
		1914.3	1.049	0.910	N/A
3M	QPSK	1851.5	1.248	1.086	N/A
		1882.5	1.247	1.085	N/A
		1913.5	1.252	1.084	N/A
	16-QAM	1851.5	1.075	0.916	N/A
		1882.5	1.074	0.912	N/A
		1913.5	1.098	0.915	N/A
5M	QPSK	1852.5	1.244	1.088	N/A
		1882.5	1.247	1.086	N/A
		1912.5	1.244	1.086	N/A
	16-QAM	1852.5	1.094	0.918	N/A
		1882.5	1.090	0.914	N/A
		1912.5	1.092	0.912	N/A
10M	QPSK	1855.0	1.238	1.089	N/A
		1882.5	1.228	1.092	N/A
		1910.0	1.257	1.101	N/A
	16-QAM	1855.0	1.118	0.919	N/A
		1882.5	1.139	0.925	N/A
		1910.0	1.110	0.923	N/A

LTE Band 25_Full RB					
Band width (MHz)	Modulation	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
			26dB BW	99% BW	
15M	QPSK	1857.5	1.306	1.119	N/A
		1882.5	1.291	1.107	N/A
		1907.5	1.279	1.115	N/A
	16-QAM	1857.5	1.117	0.918	N/A
		1882.5	1.112	0.931	N/A
		1907.5	1.138	0.929	N/A
20M	QPSK	1860.0	1.299	1.112	N/A
		1882.5	1.296	1.112	N/A
		1905.0	1.295	1.111	N/A
	16-QAM	1860.0	1.144	0.948	N/A
		1882.5	1.150	0.948	N/A
		1905.0	1.134	0.947	N/A

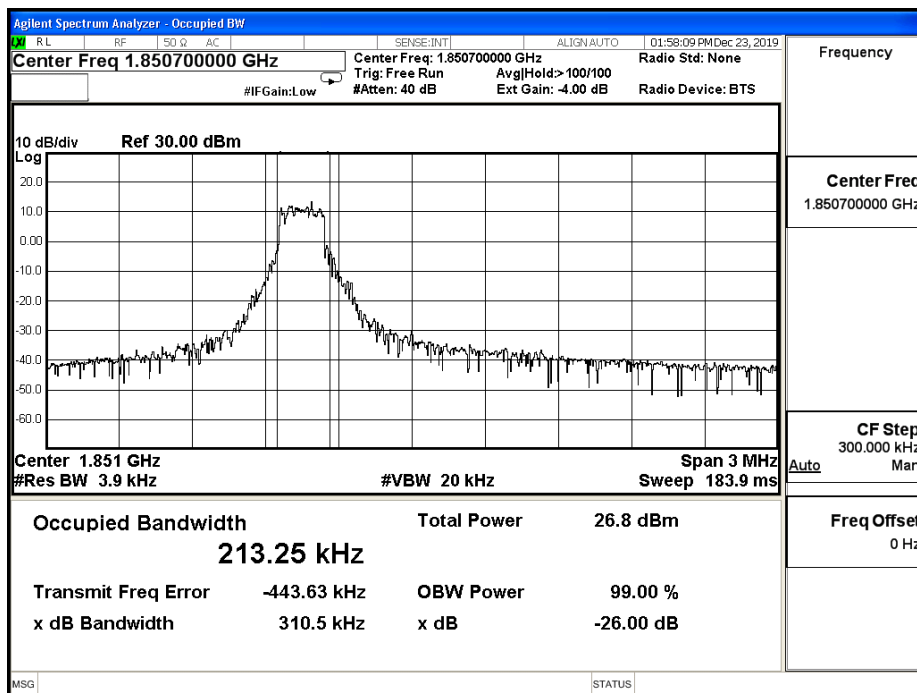
B25_CH26047_1.4M_QPSK_1RB0



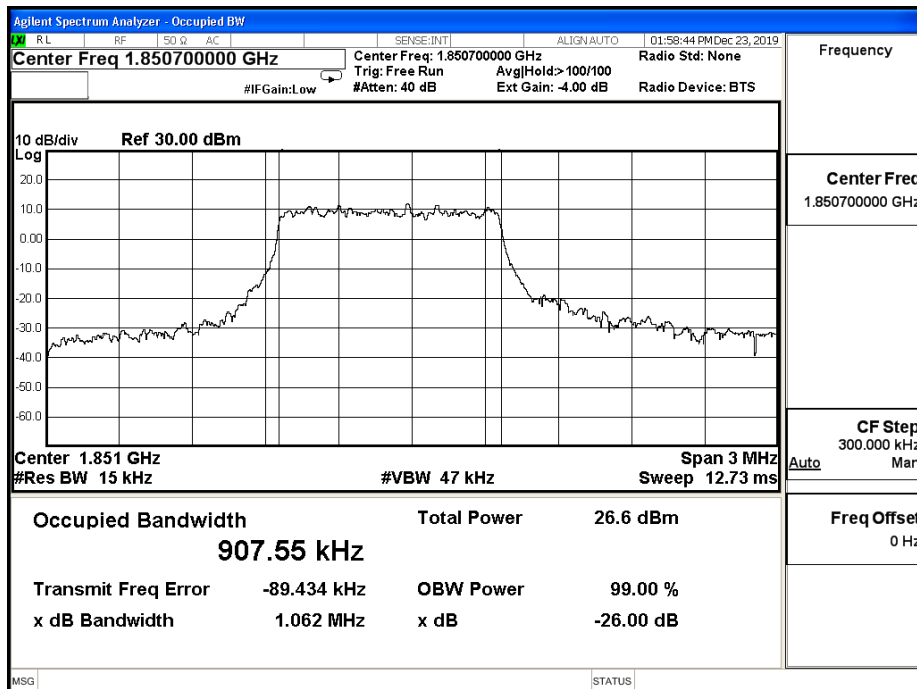
B25_CH26047_1.4M_QPSK_6RB0



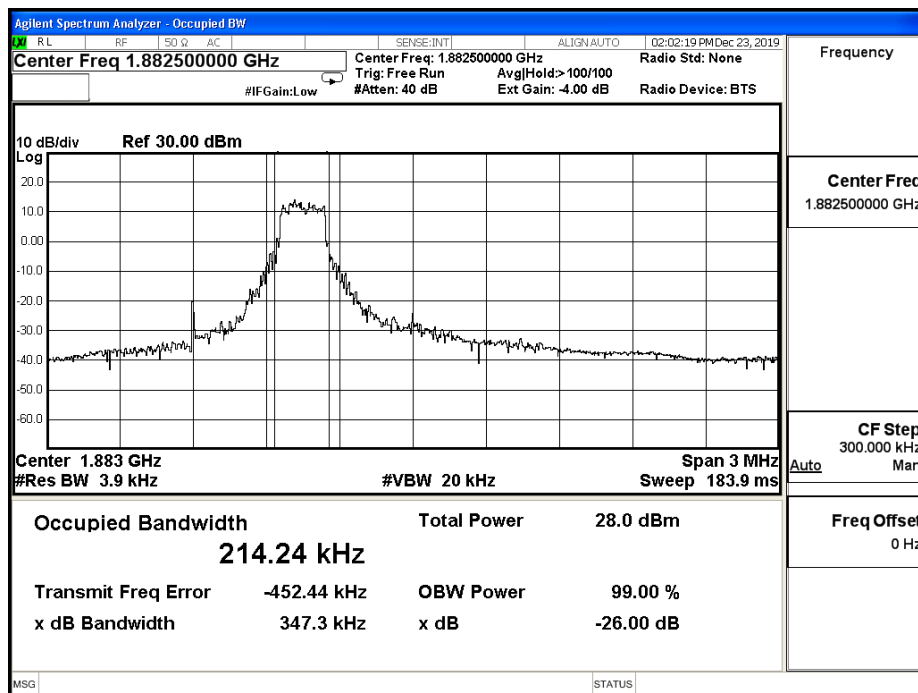
B25_CH26047_1.4M_16-QAM_1RB0



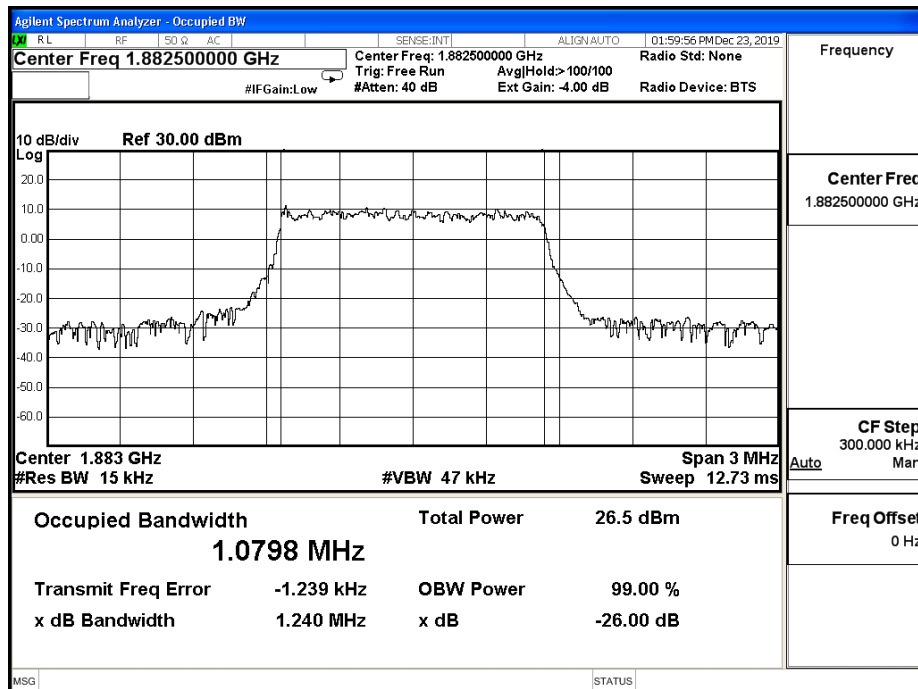
B25_CH26047_1.4M_16-QAM_5RB0



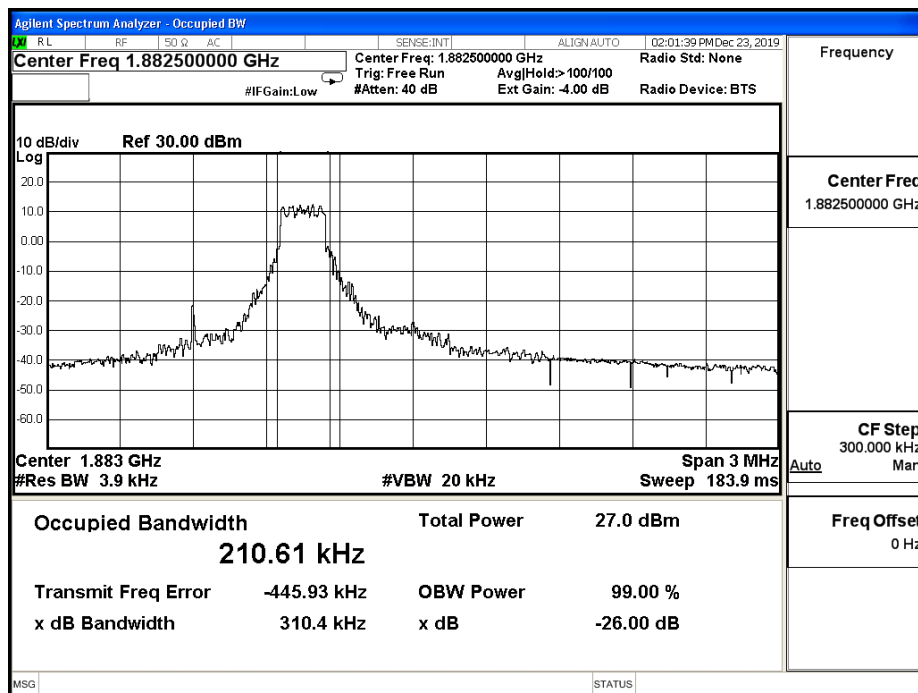
B25_CH26365_1.4M_QPSK_1RB0



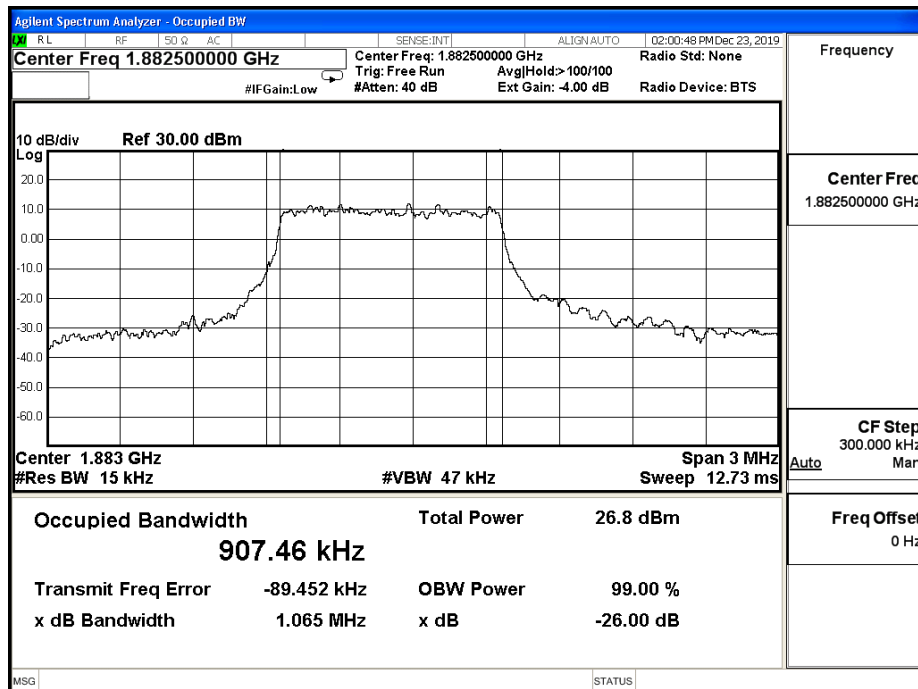
B25_CH26365_1.4M_QPSK_6RB0



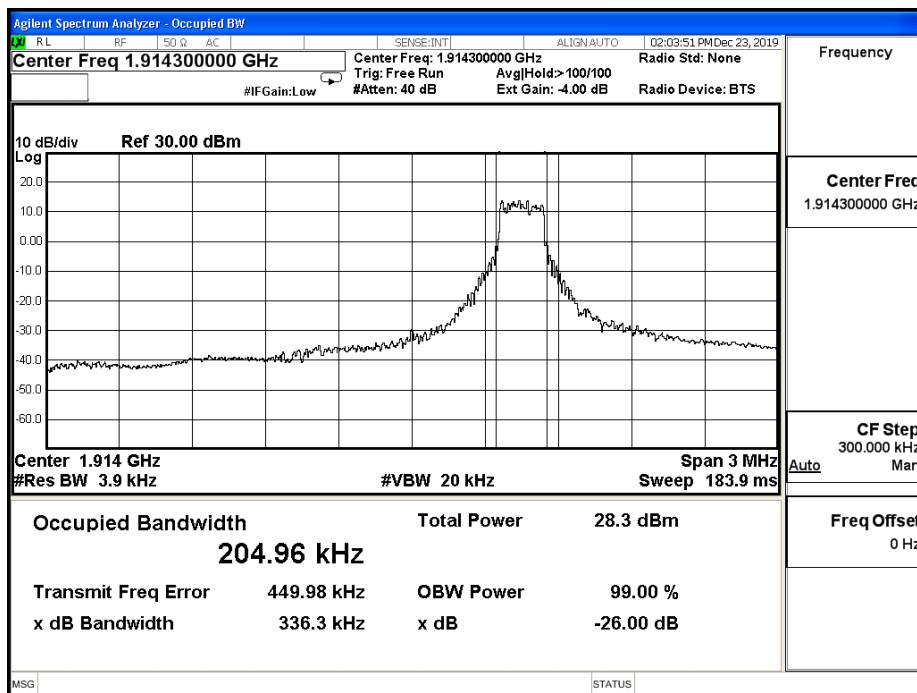
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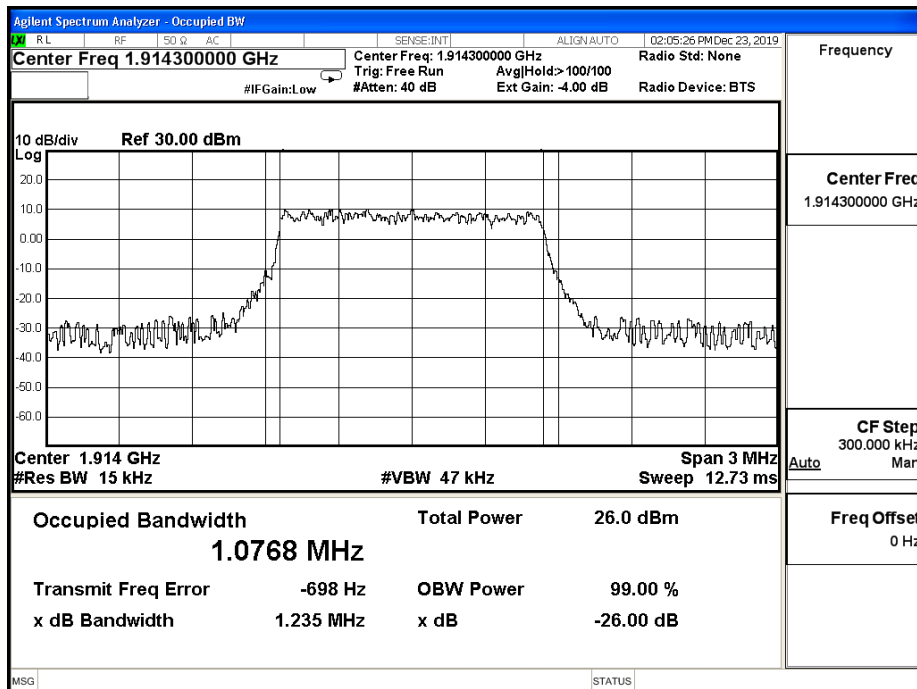
B25_CH26365_1.4M_16-QAM_5RB0



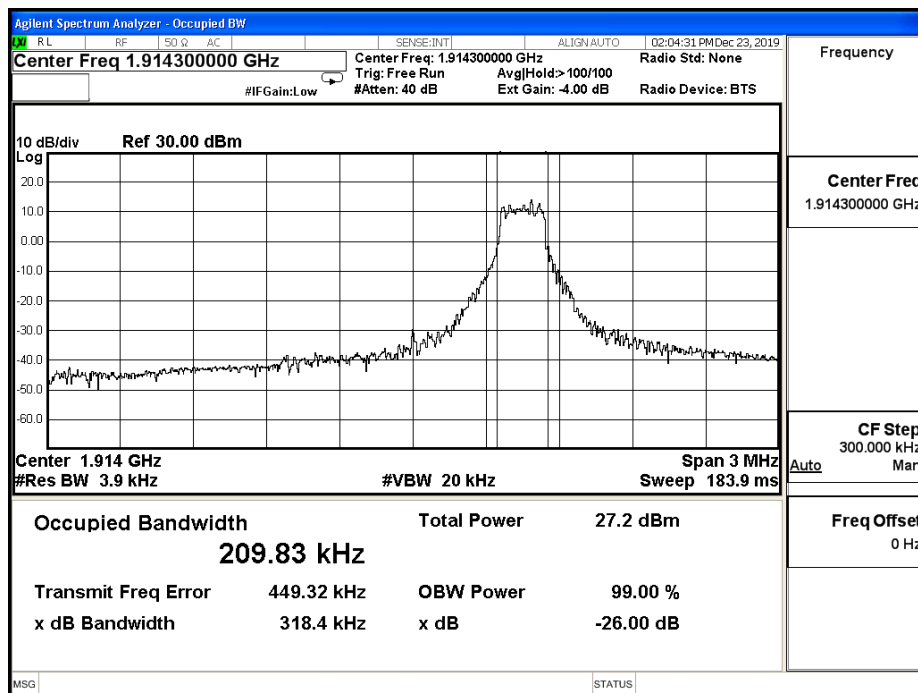
B25_CH26683_1.4M_QPSK_1RB5



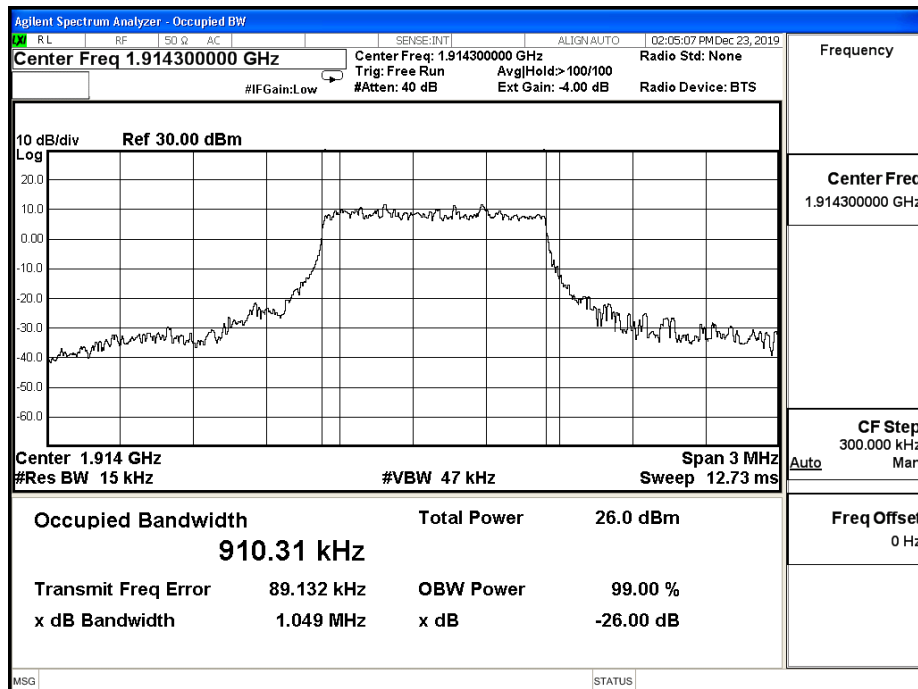
B25_CH26683_1.4M_QPSK_6RB0



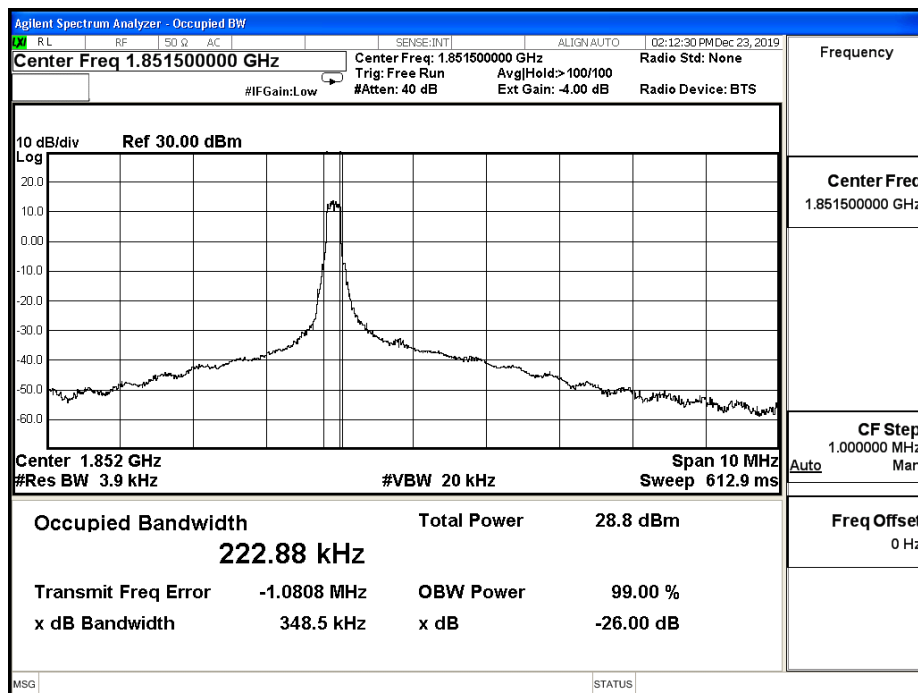
B25_CH26683_1.4M_16-QAM_1RB5



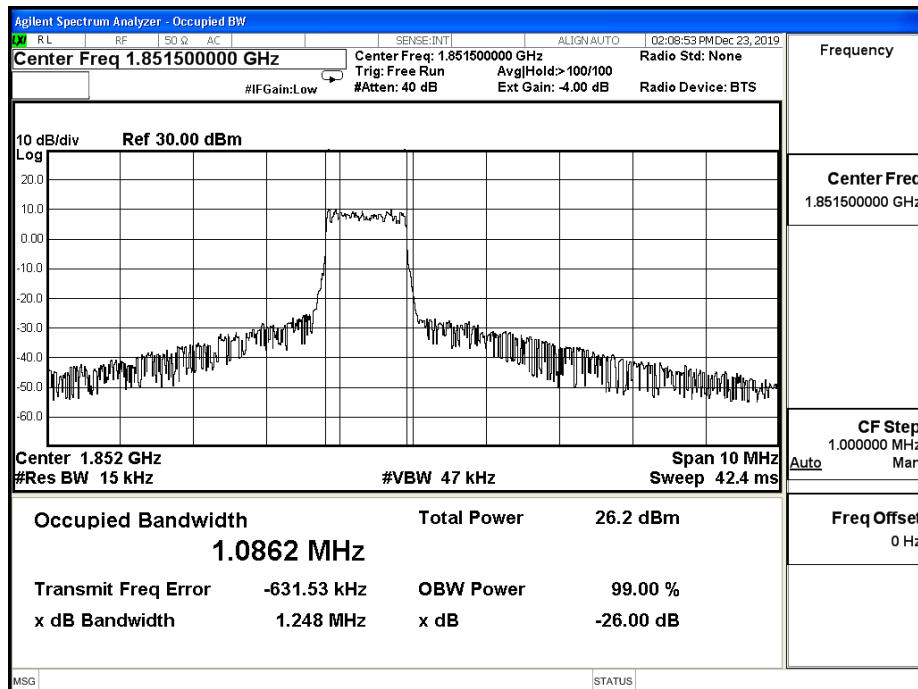
B25_CH26683_1.4M_16-QAM_5RB1



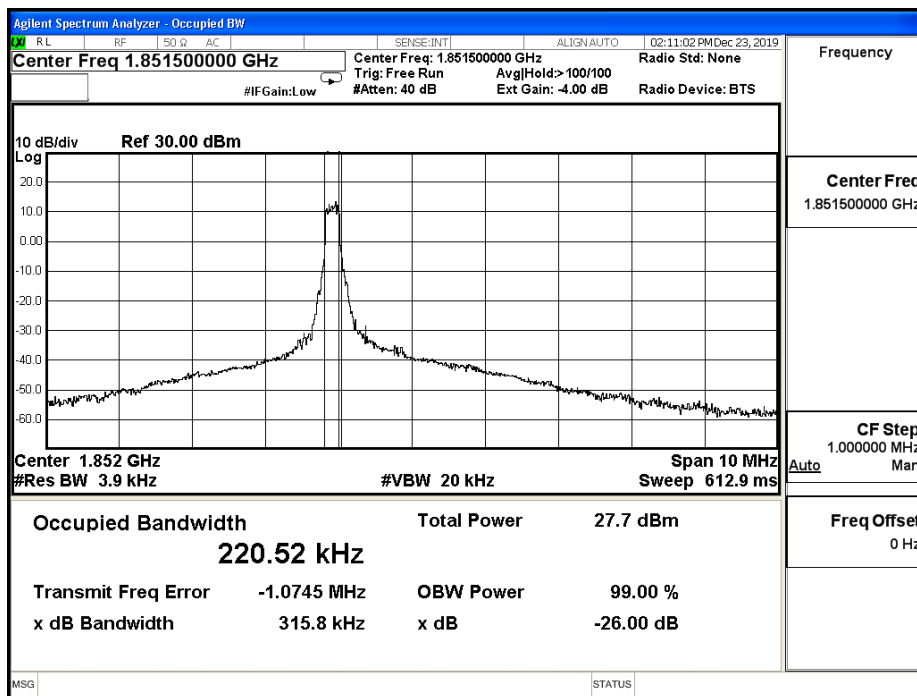
B25_CH26055_3M_QPSK_1RB0



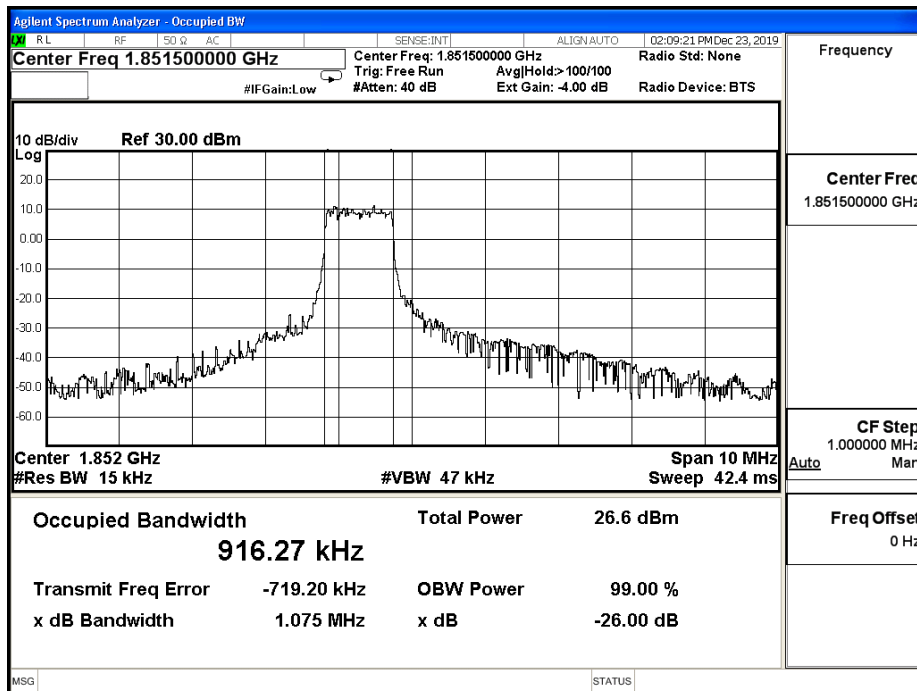
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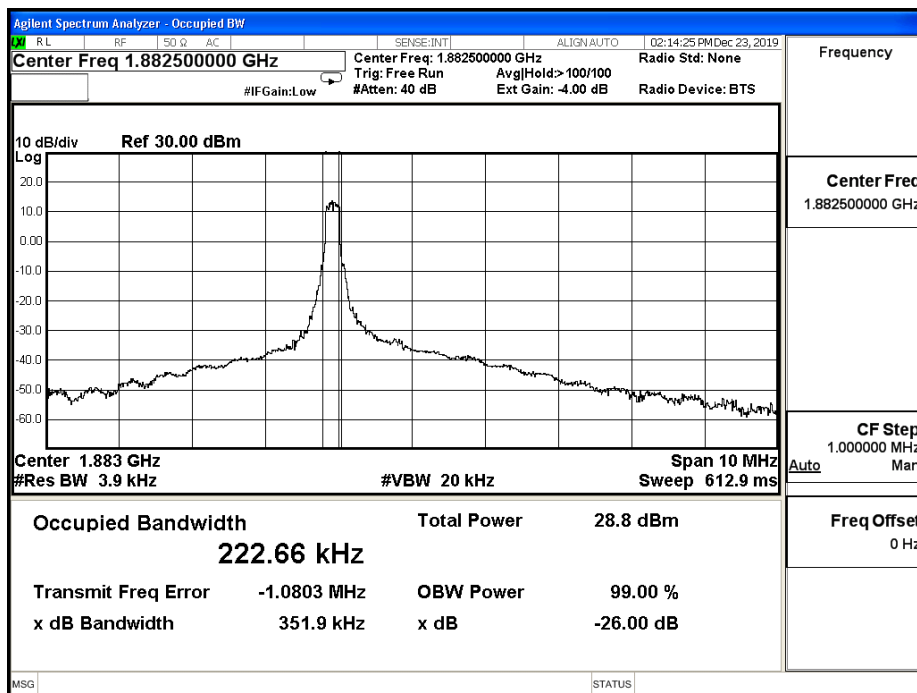
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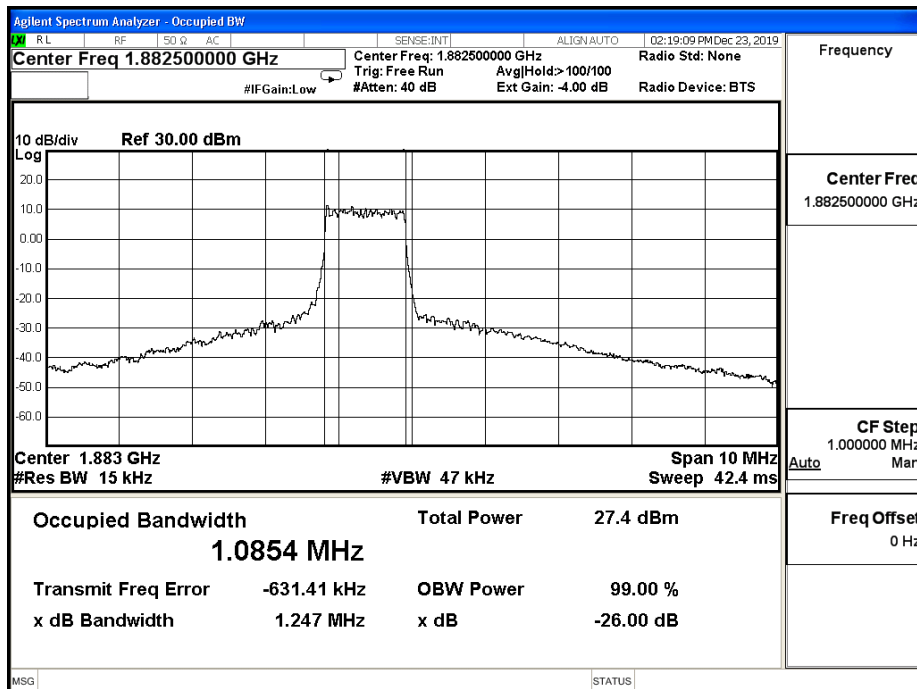
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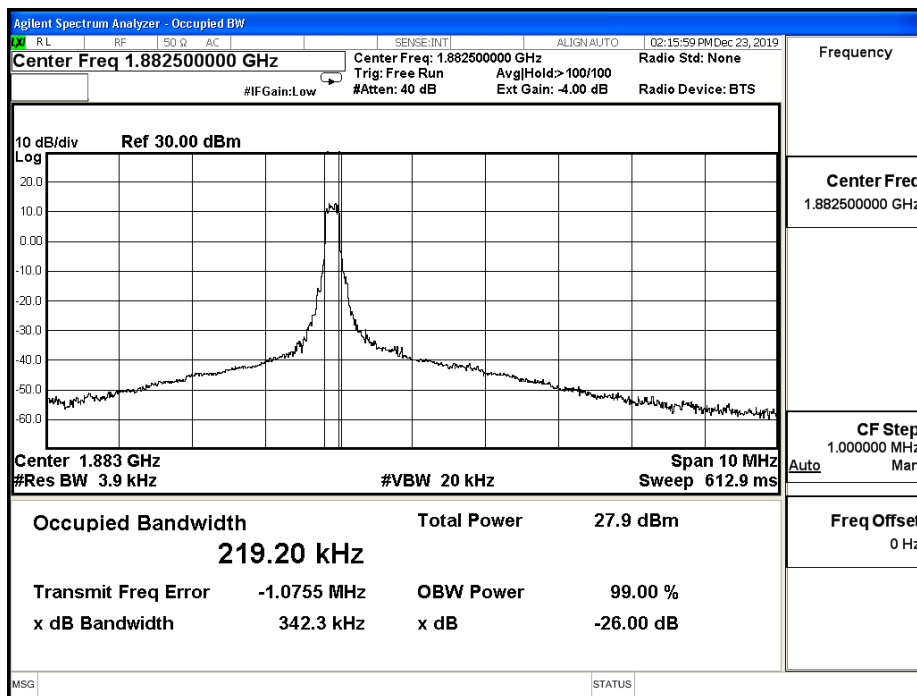
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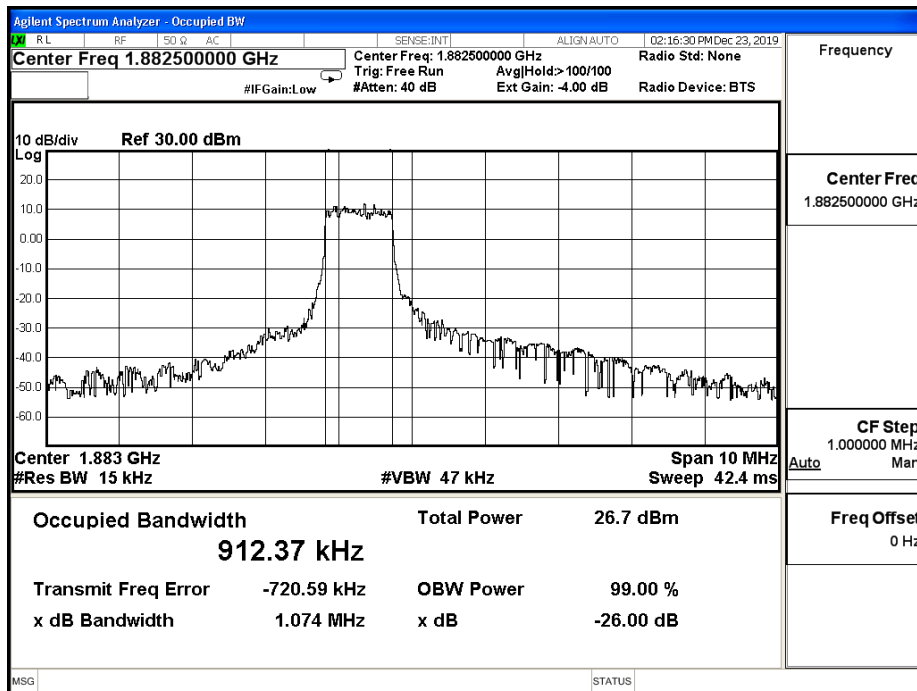
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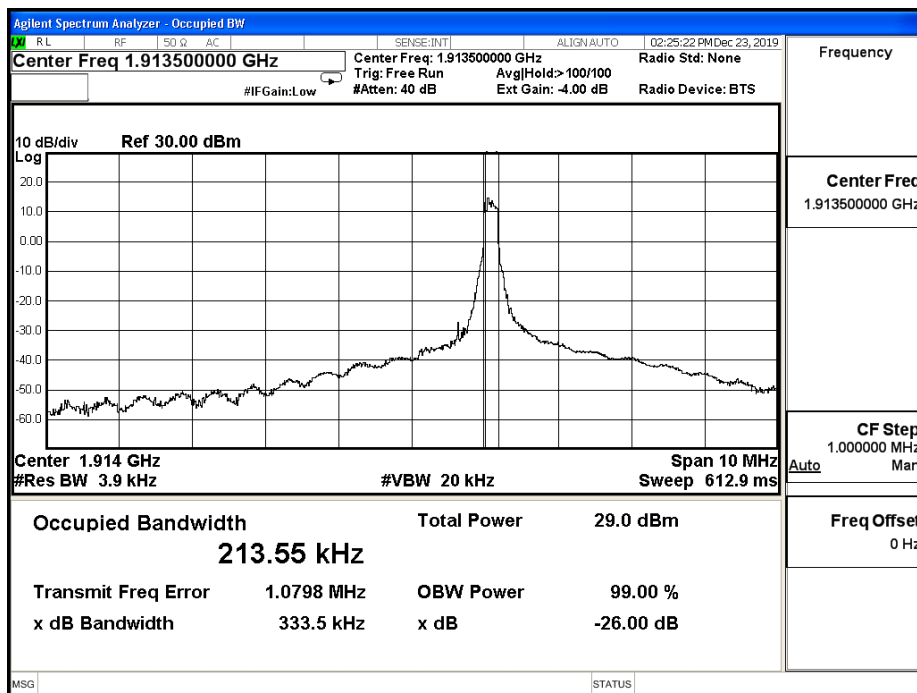
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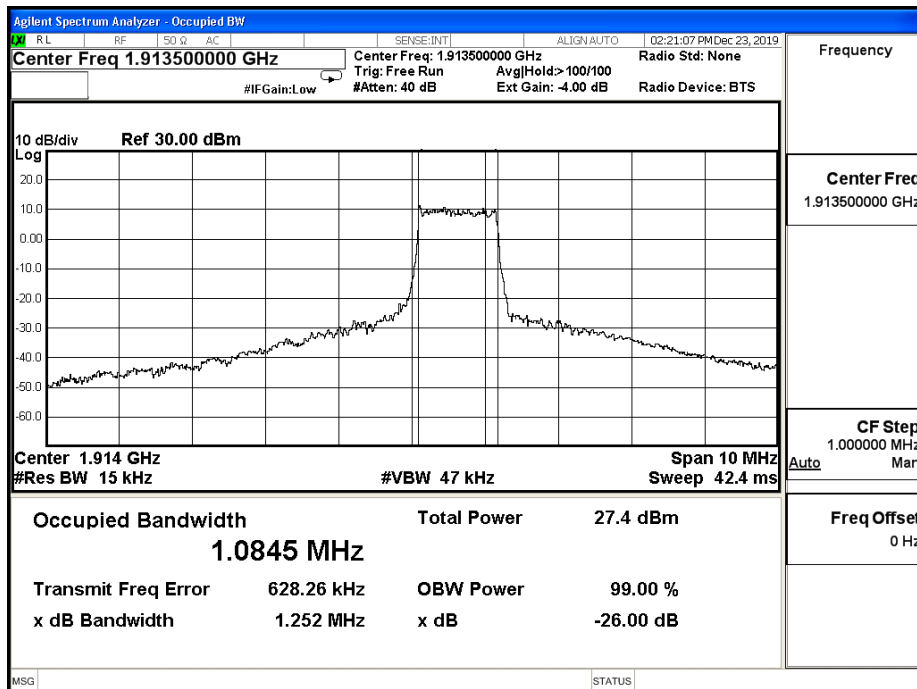
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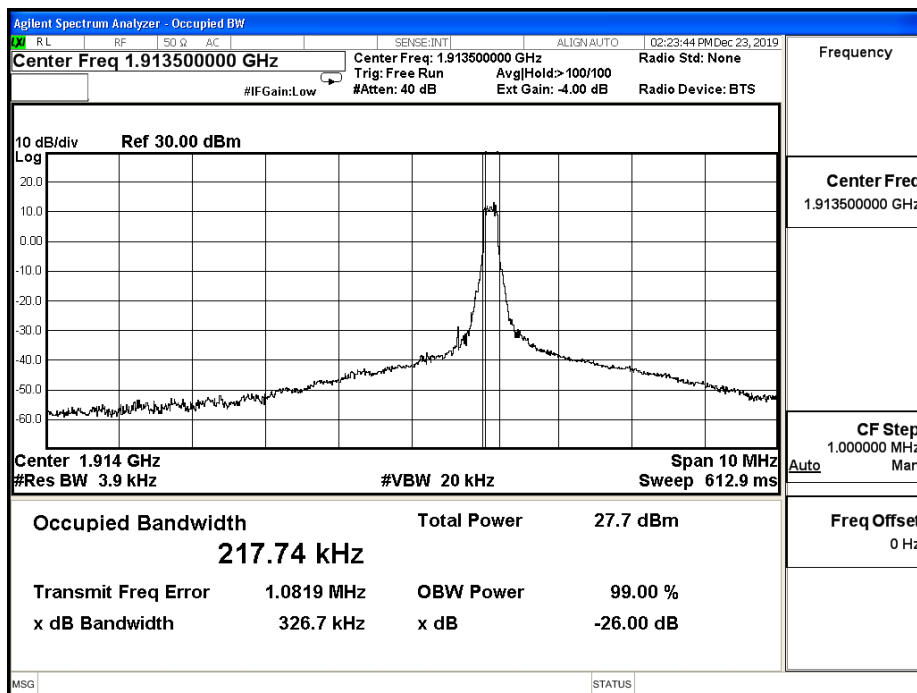
B25_CH26675_3M_QPSK_1RB5



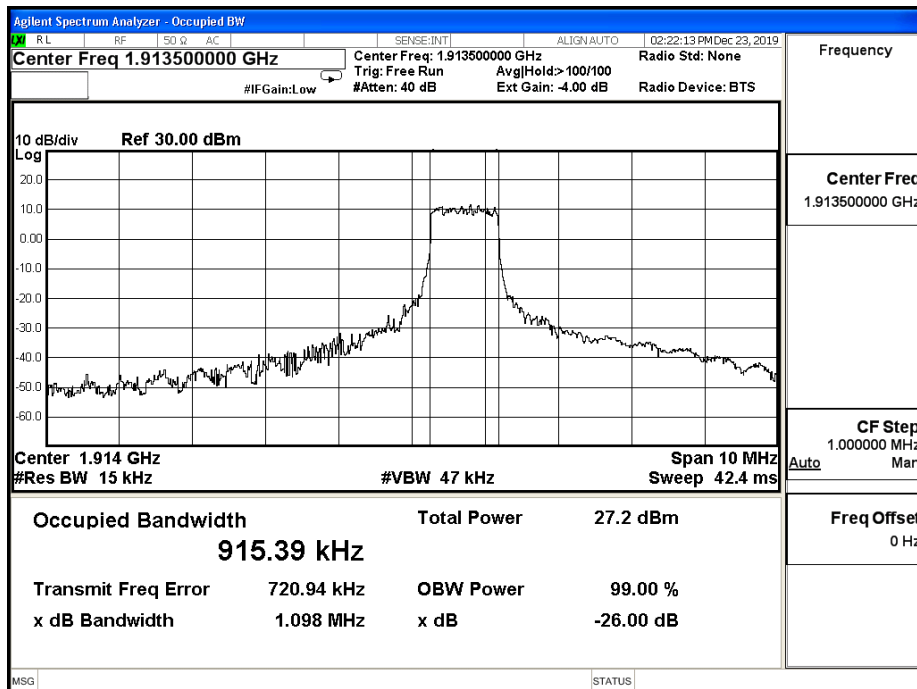
B25_CH26675_3M_QPSK_6RB0



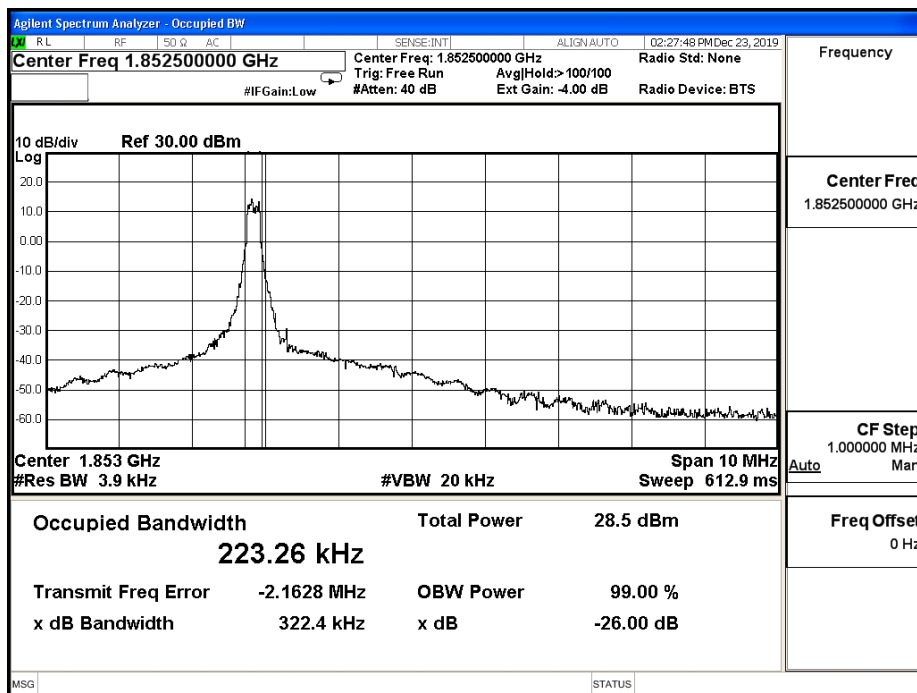
B25_CH26675_3M_16-QAM_1RB5



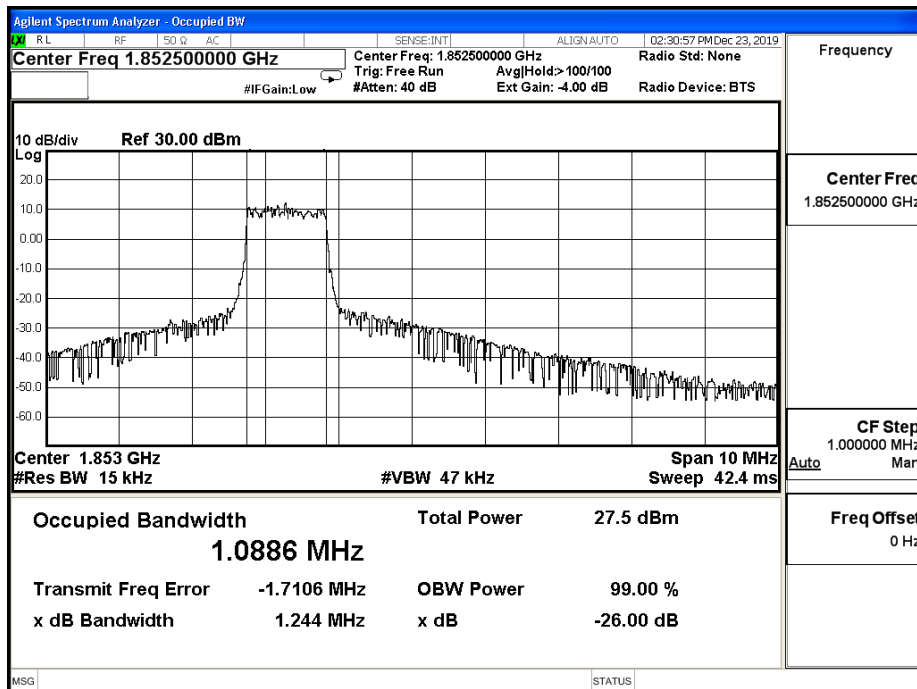
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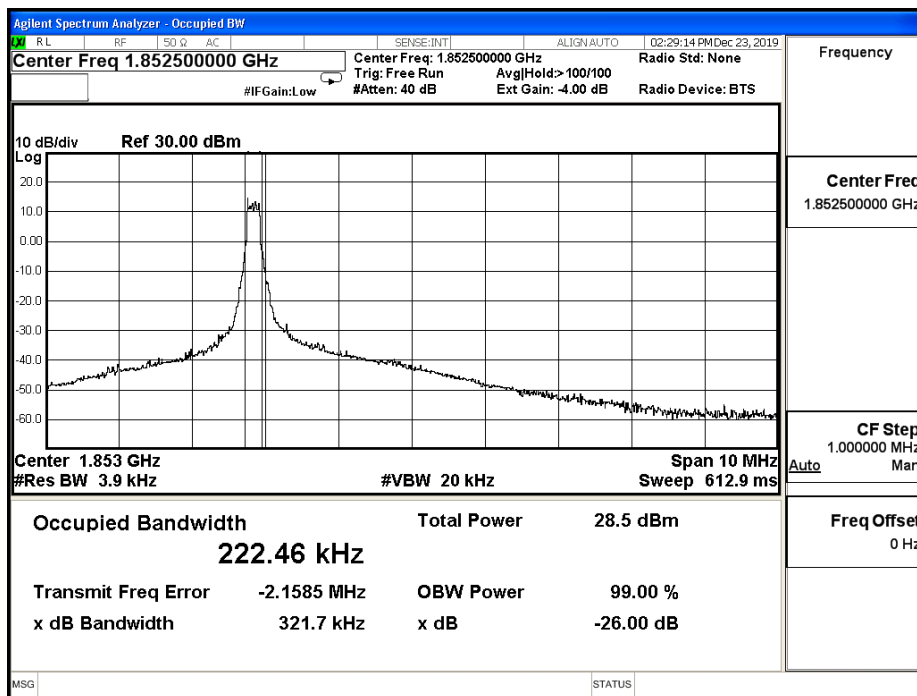
B25_CH26065_5M_QPSK_1RB0



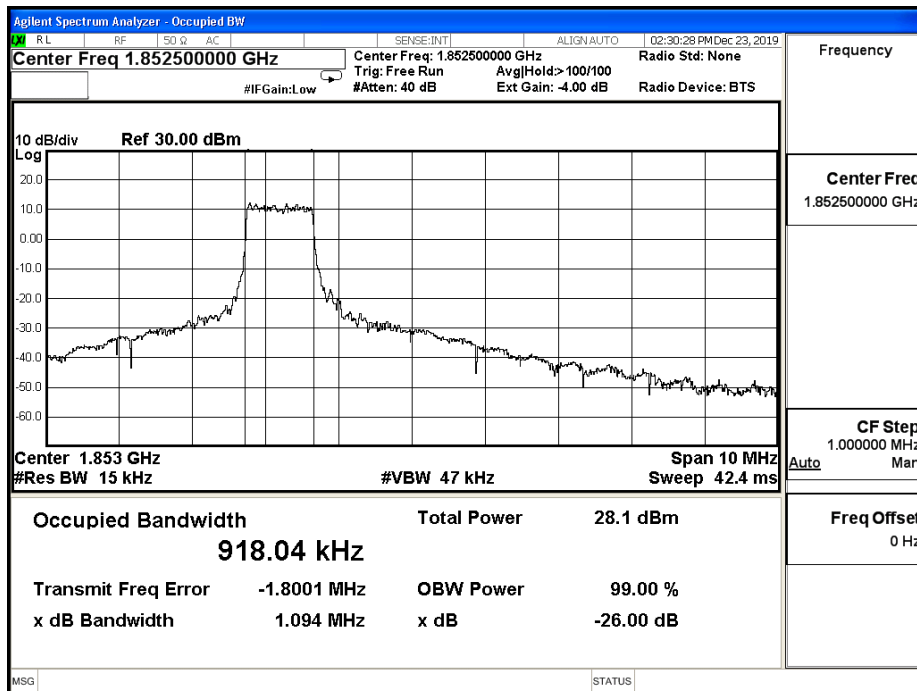
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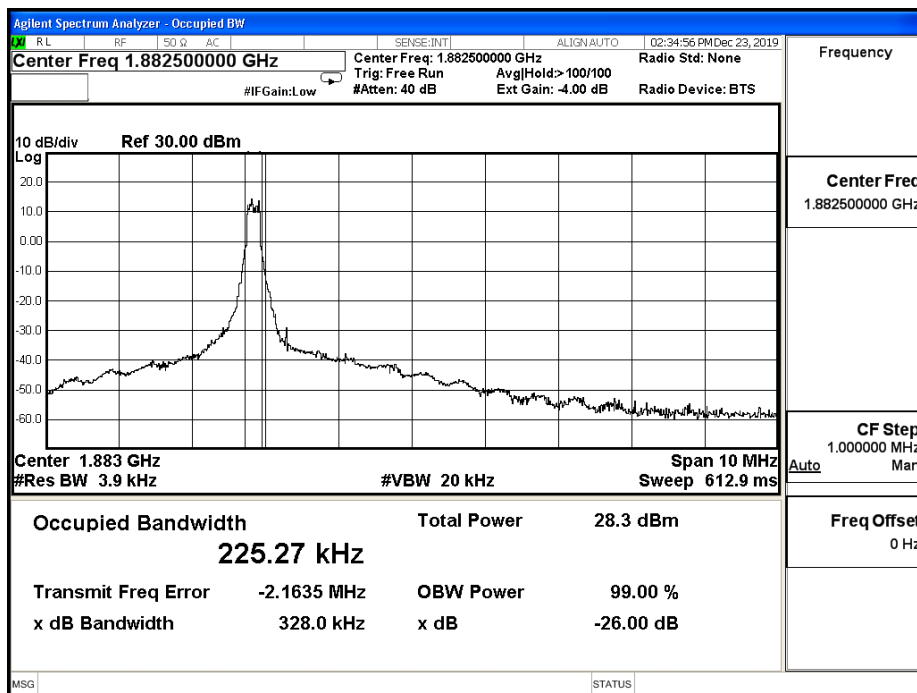
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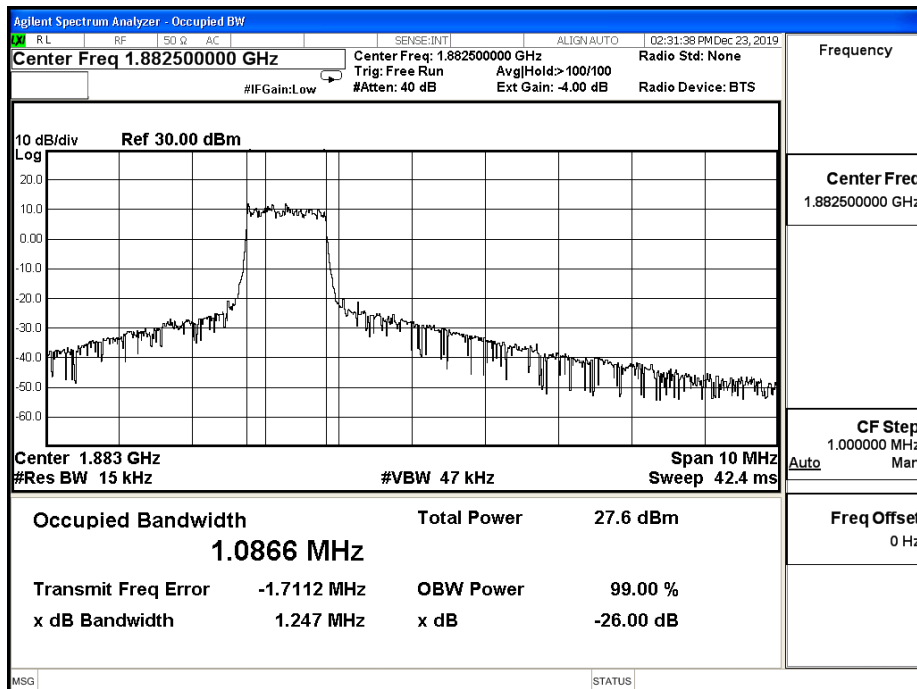
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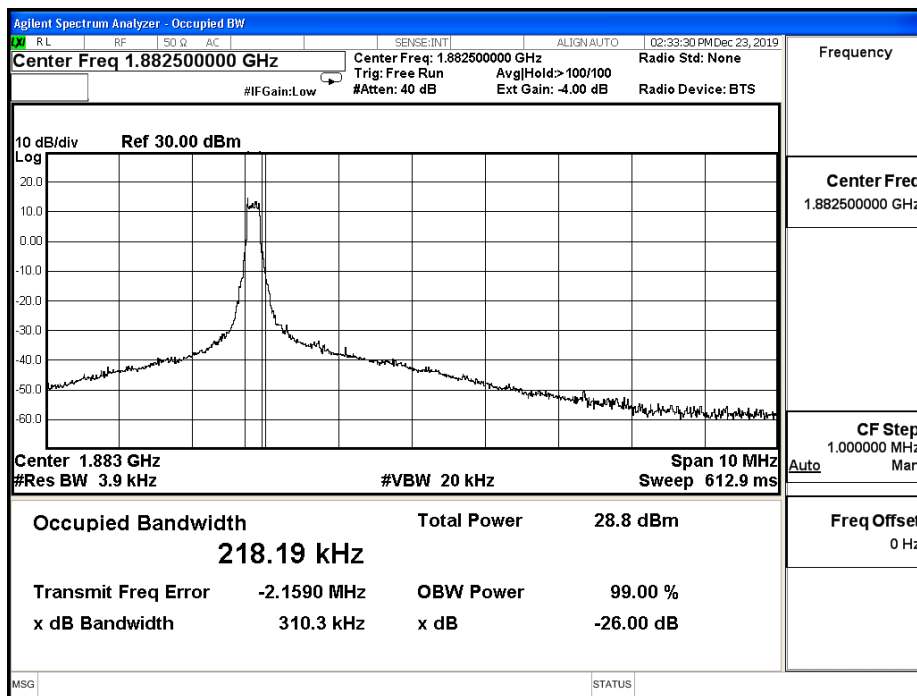
B25_CH26365_5M_QPSK_1RB0



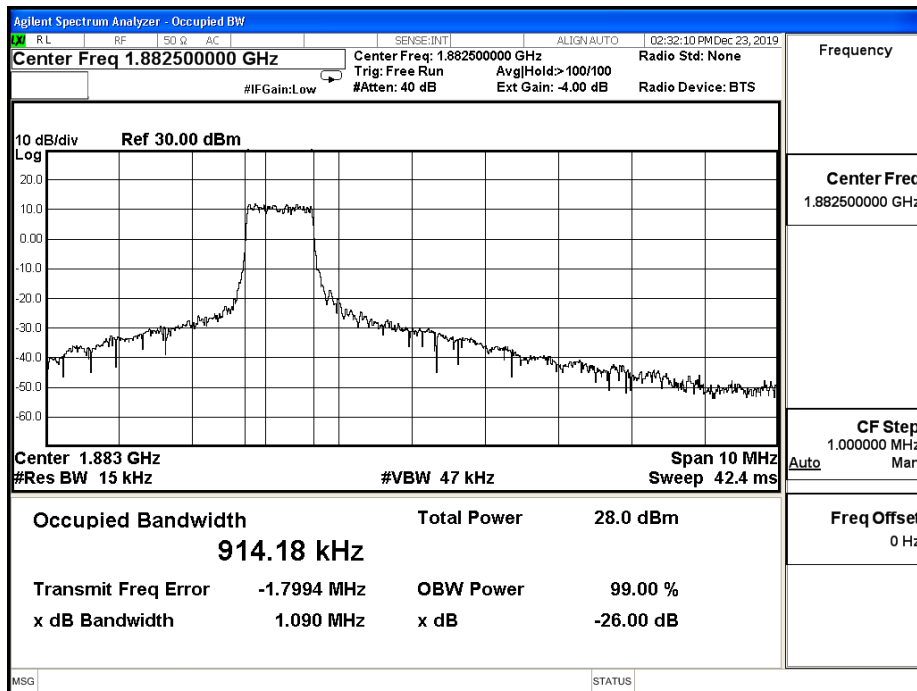
B25_CH26365_5M_QPSK_6RB0



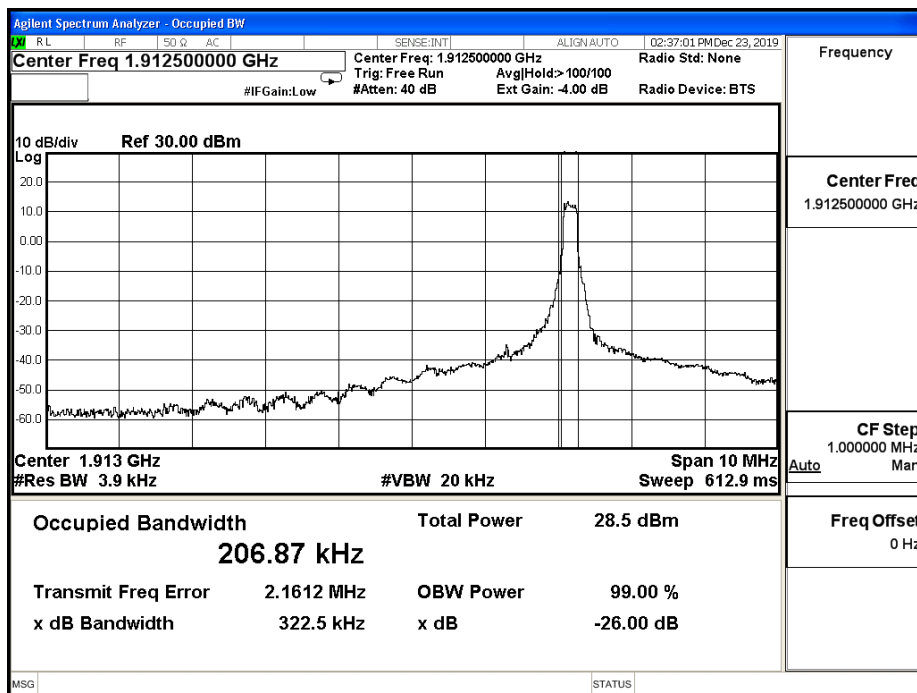
B25_CH26365_5M_16-QAM_1RB0



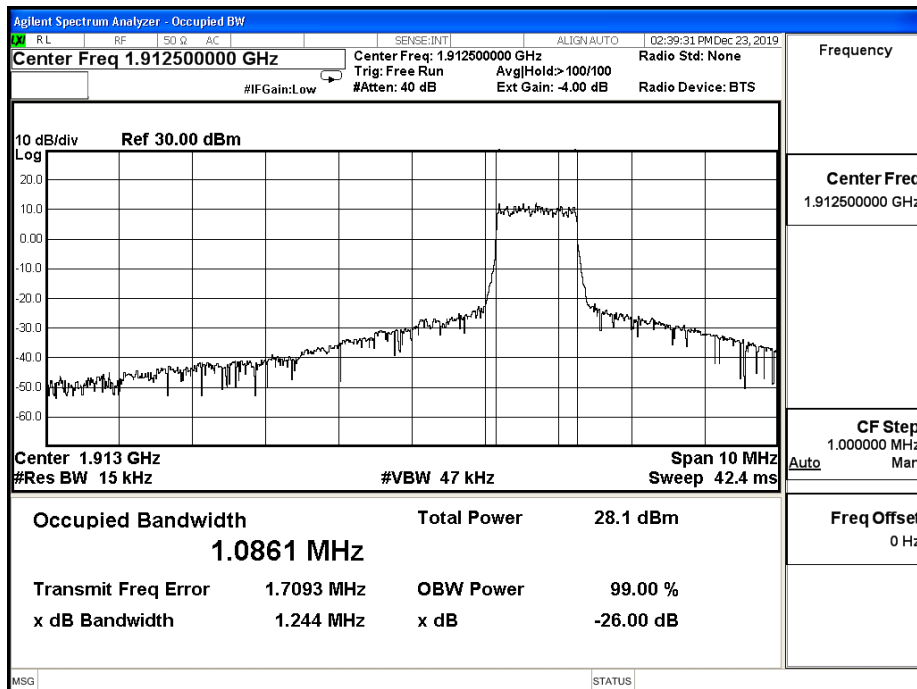
B25_CH26365_5M_16-QAM_5RB0



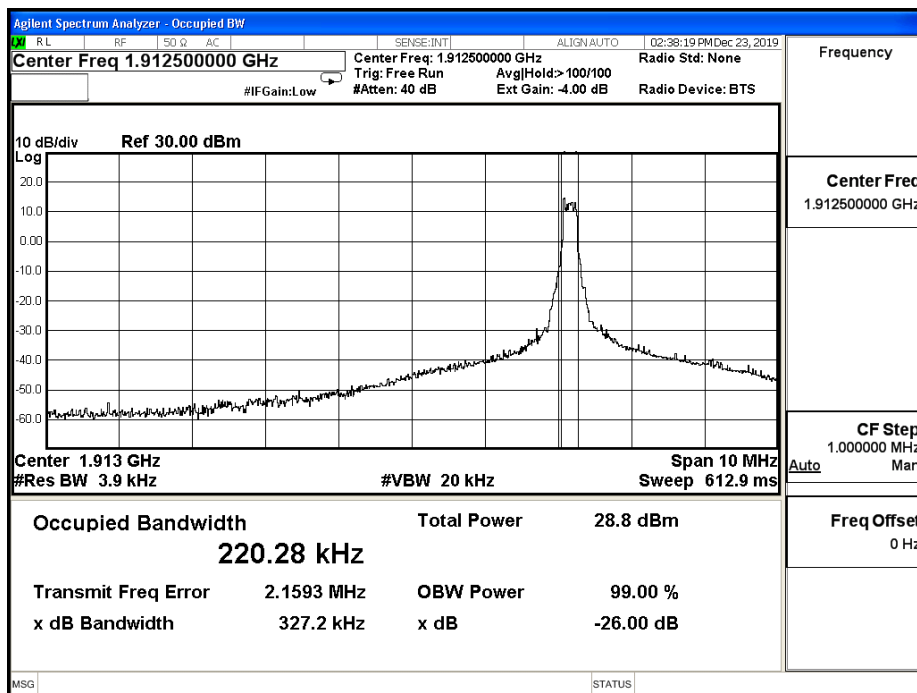
B25_CH26665_5M_QPSK_1RB5



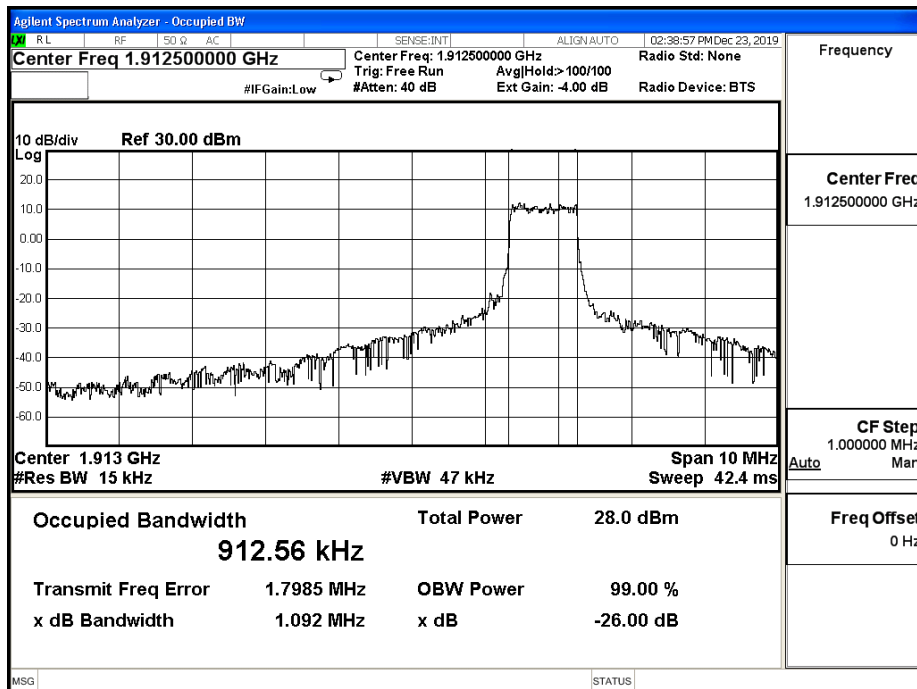
B25_CH26665_5M_QPSK_6RB0



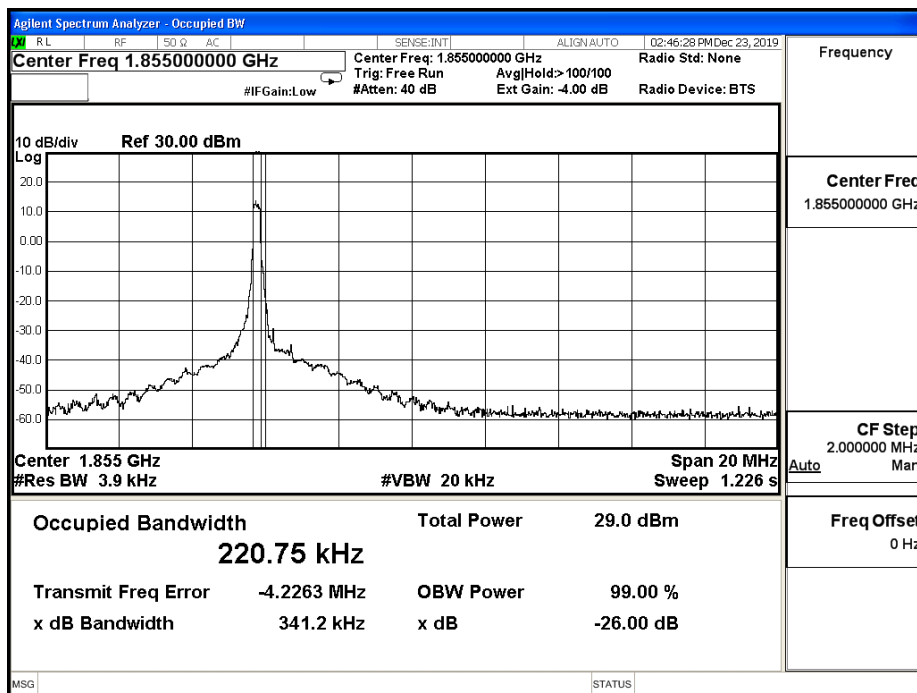
B25_CH26665_5M_16-QAM_1RB5



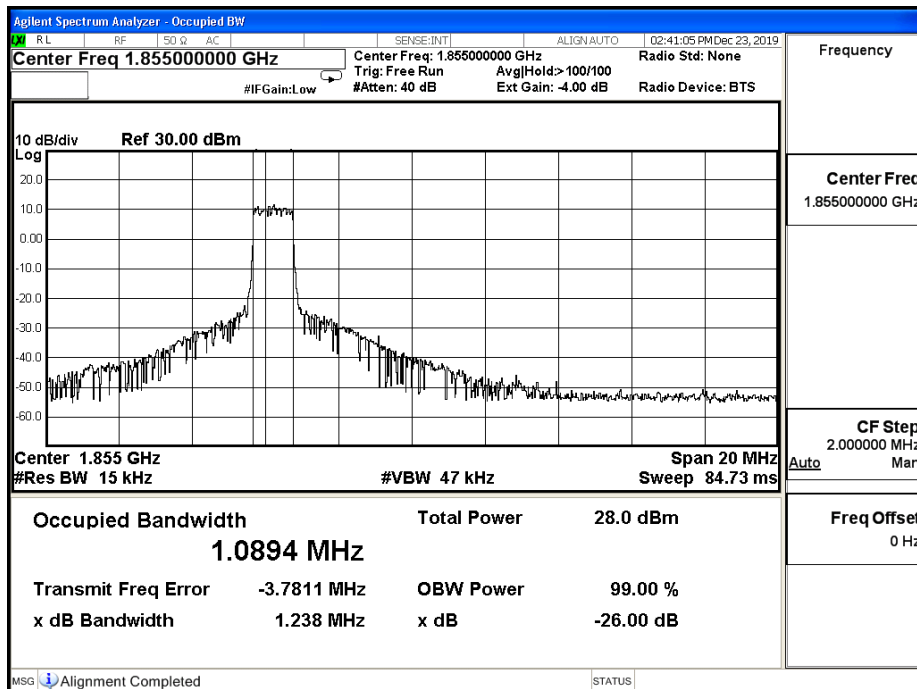
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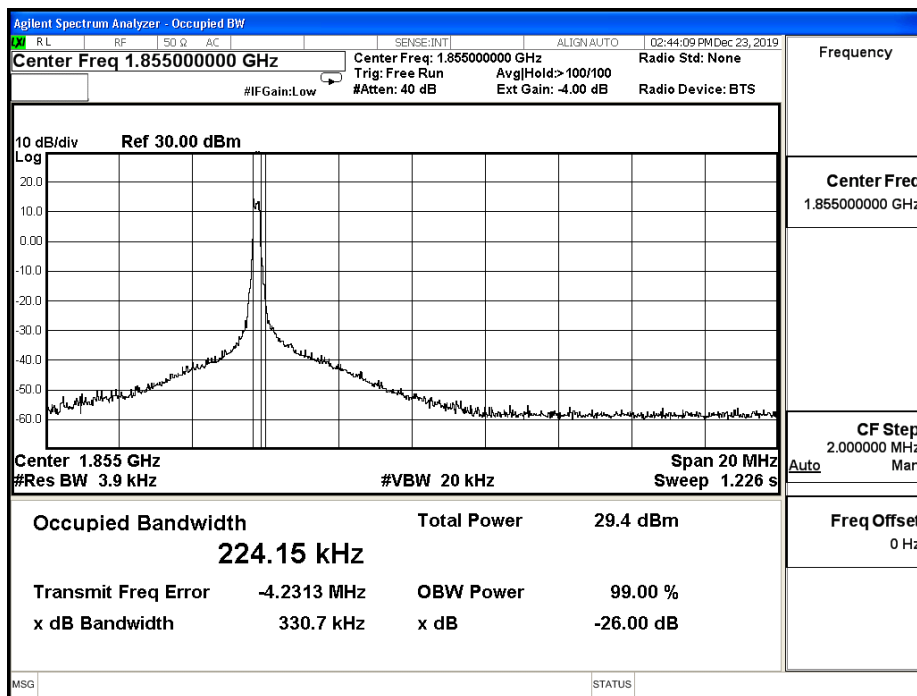
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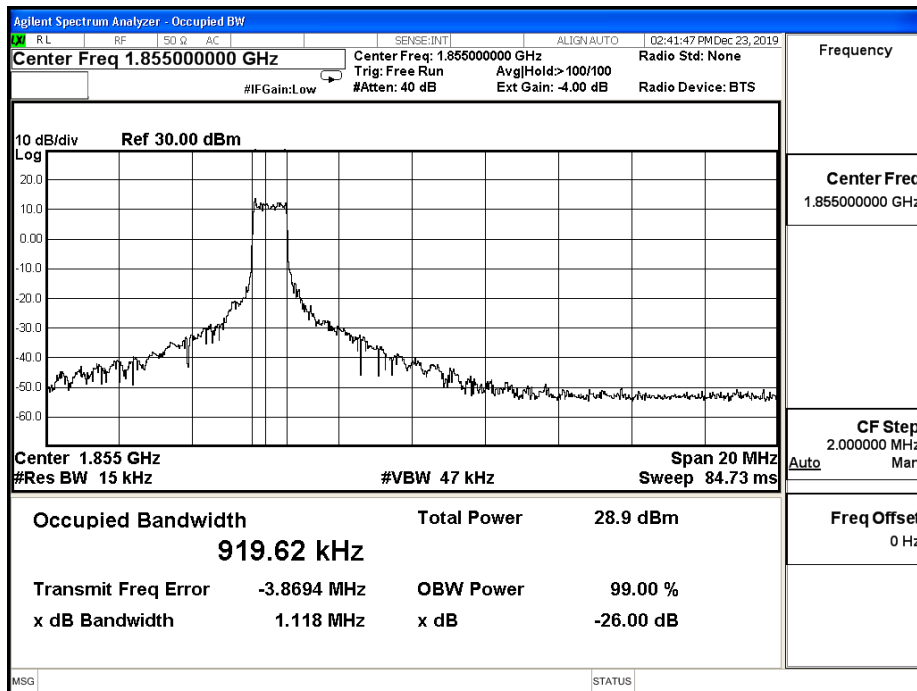
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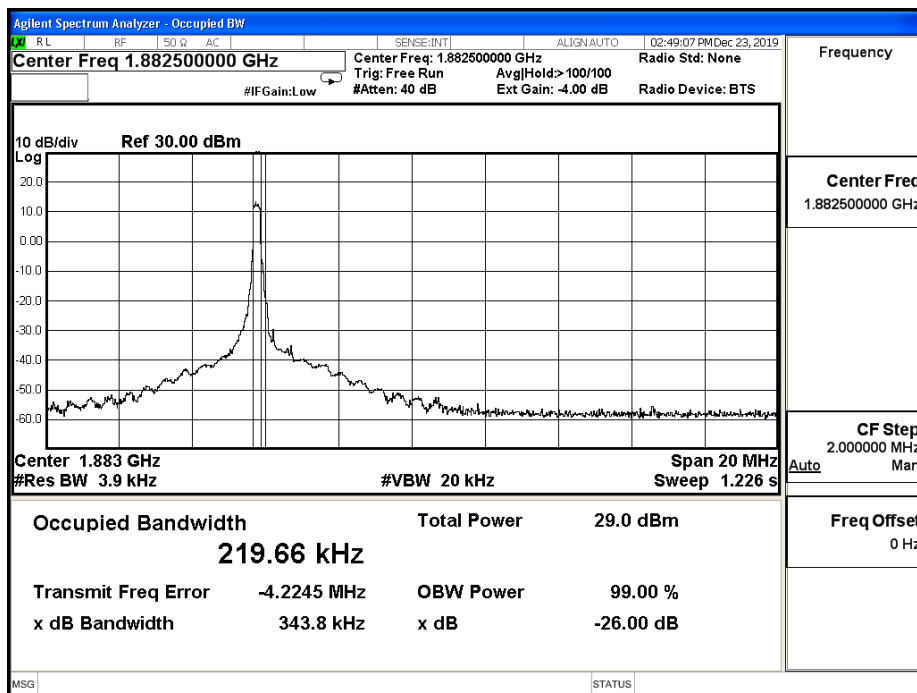
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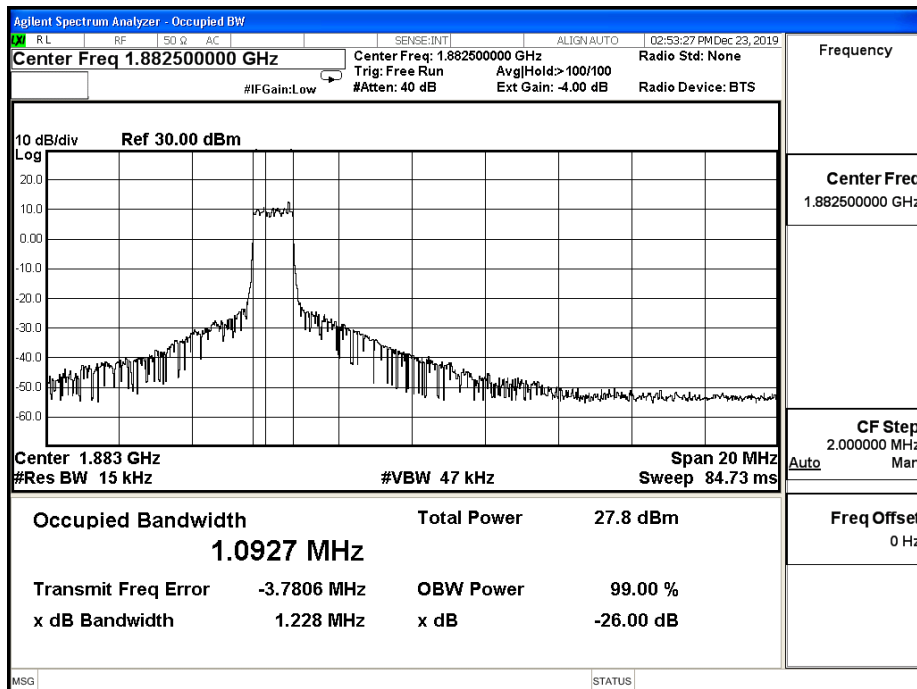
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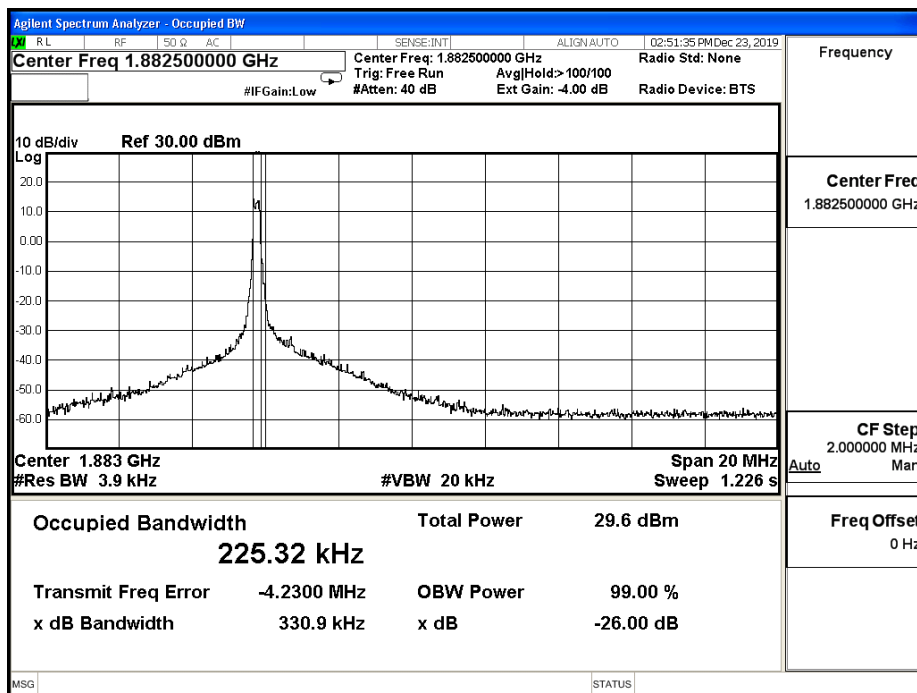
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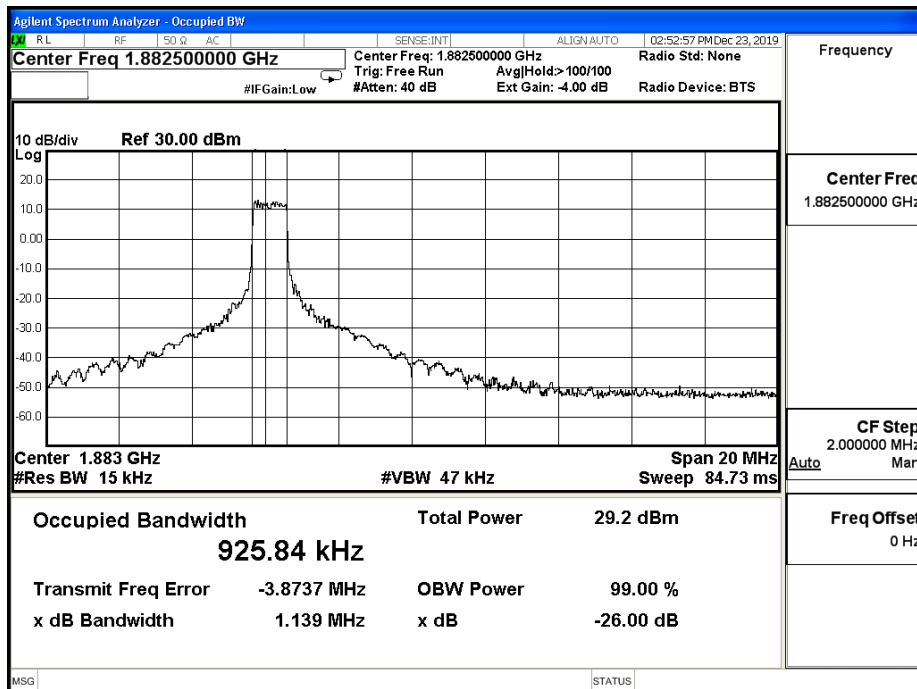
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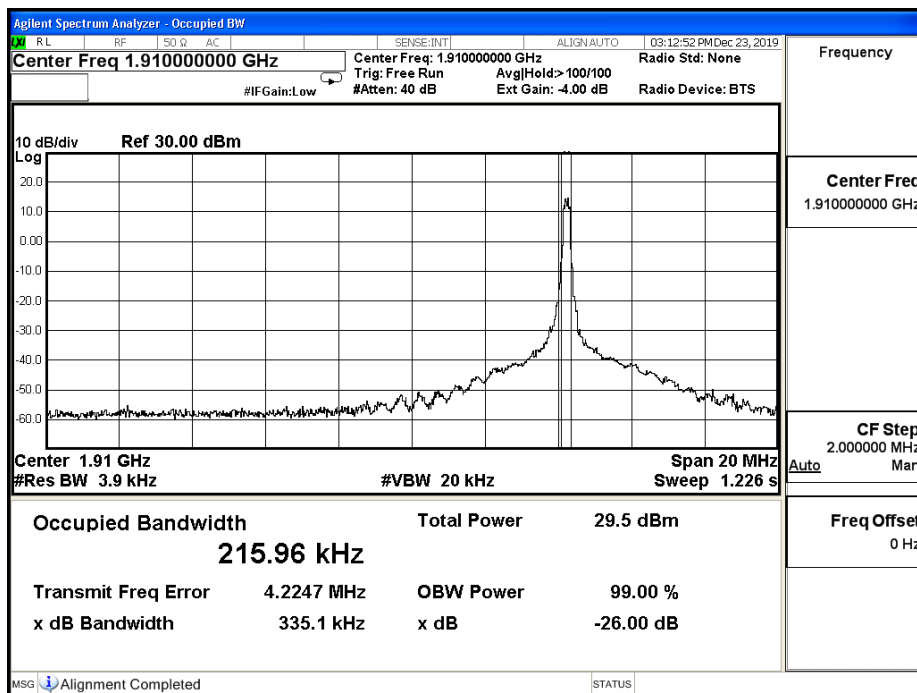
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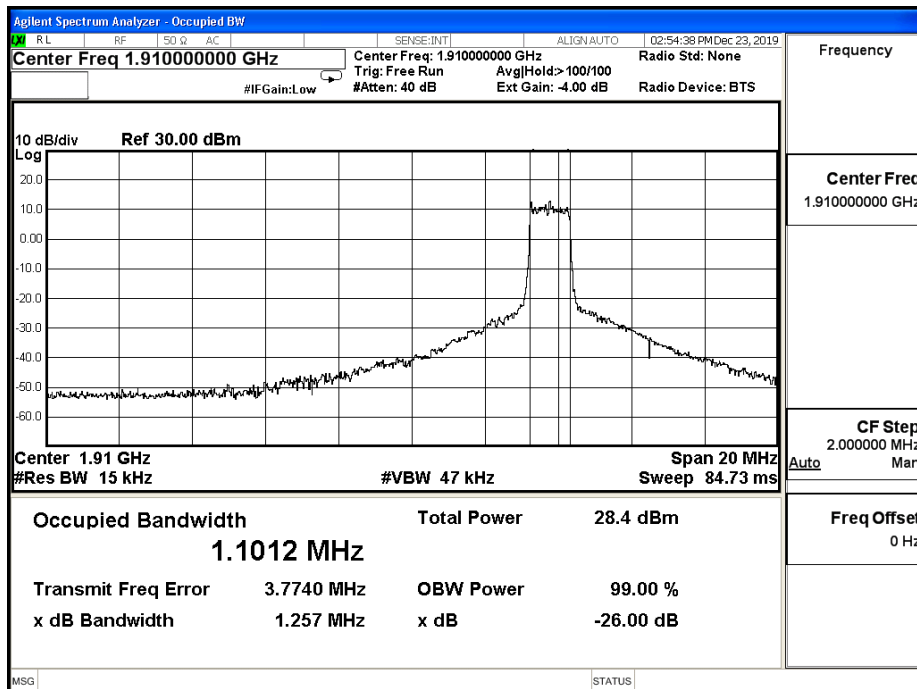
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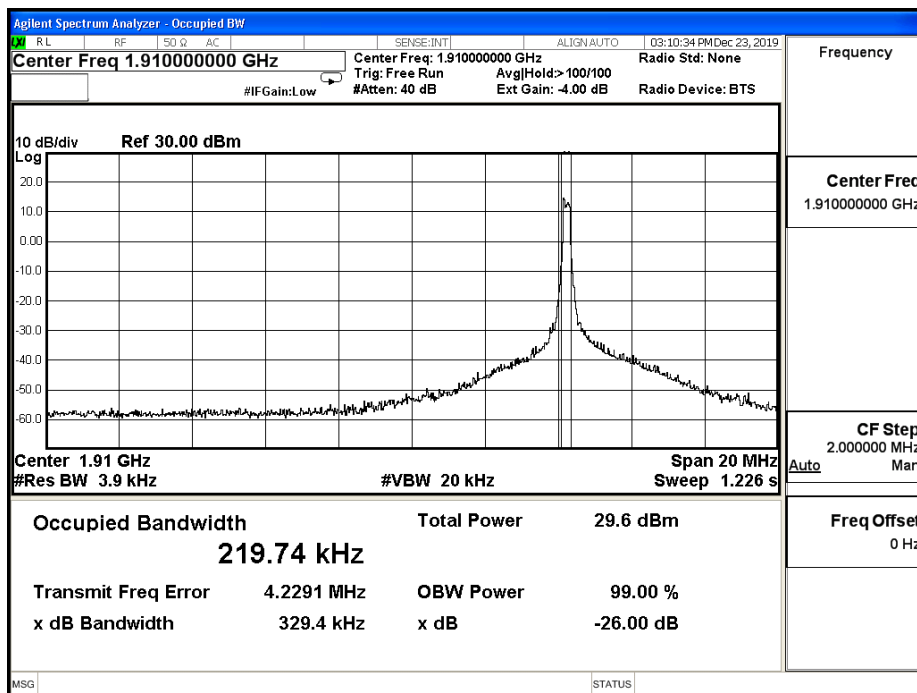
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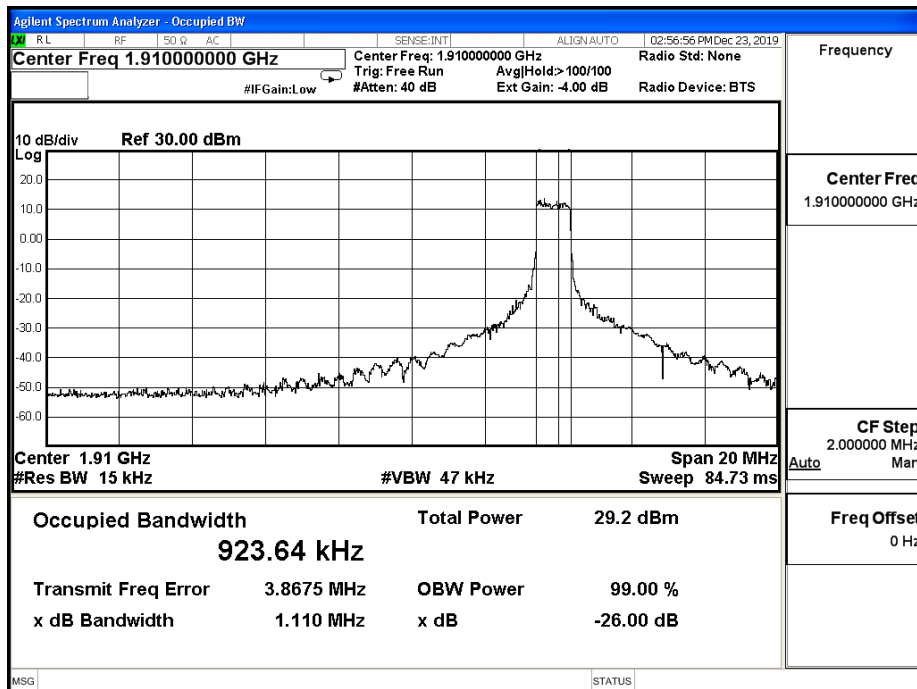
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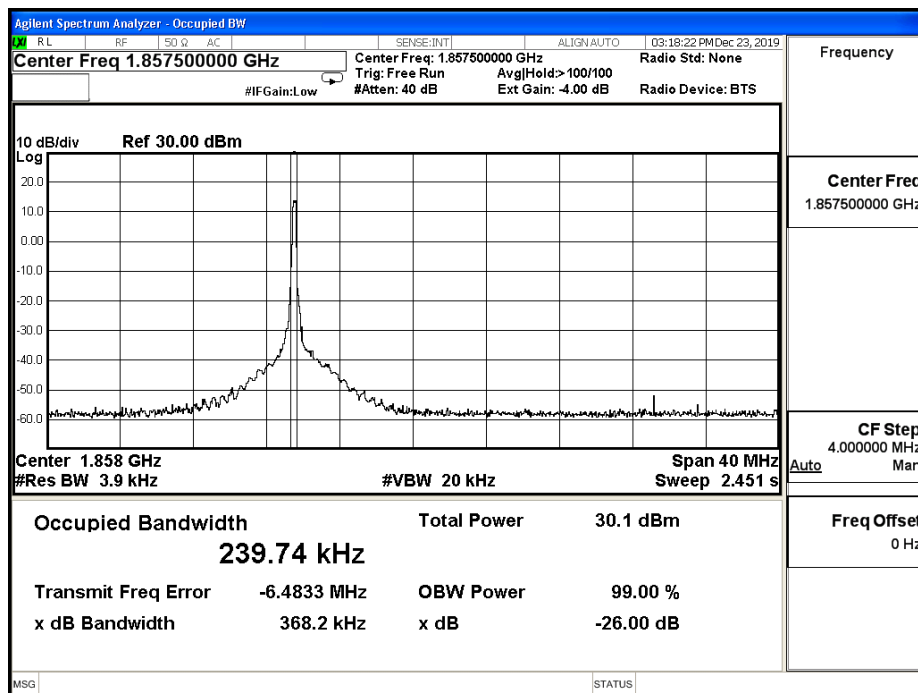
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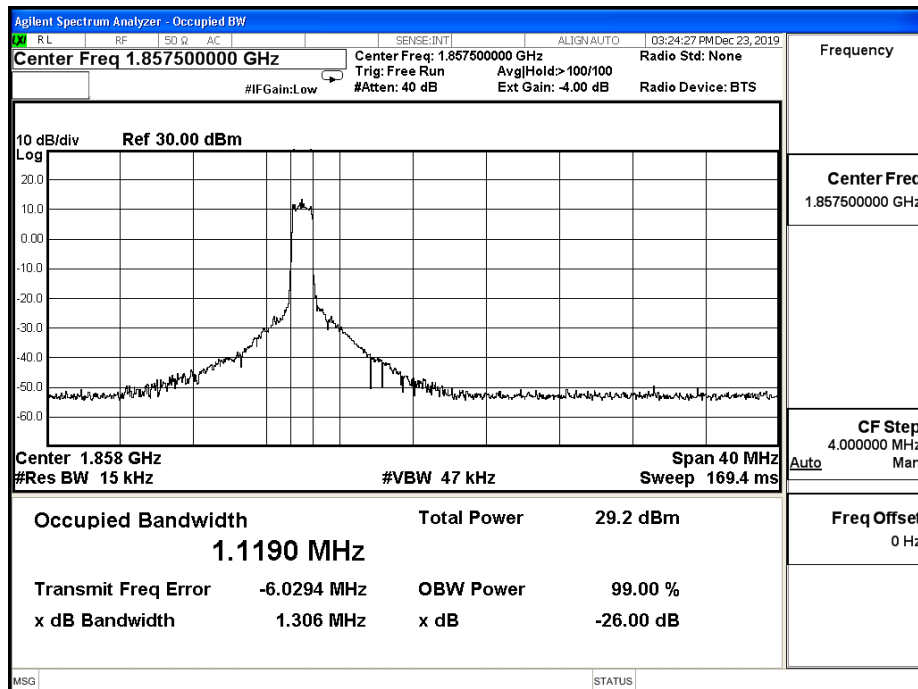
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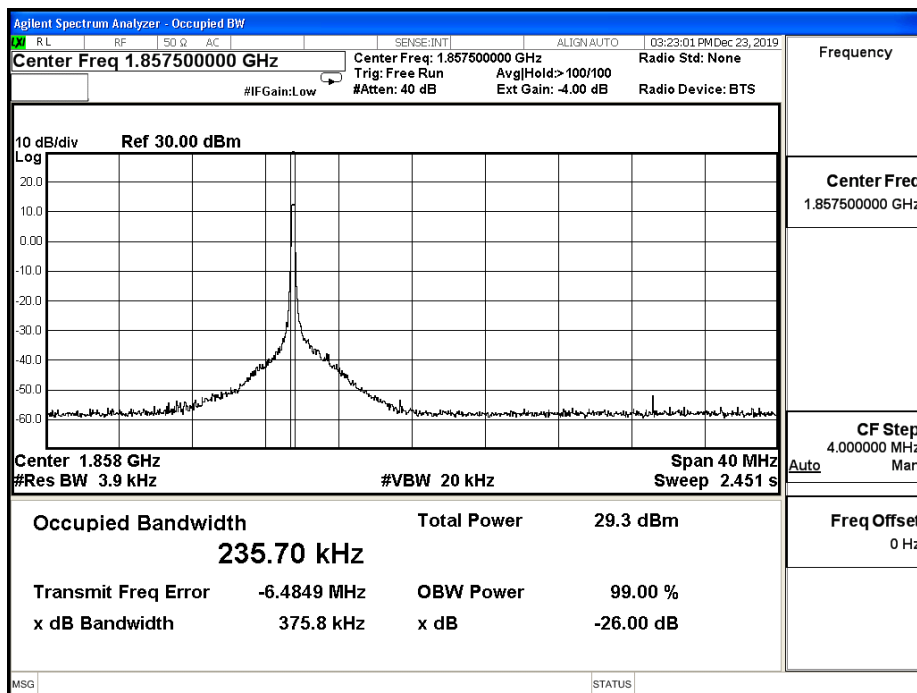
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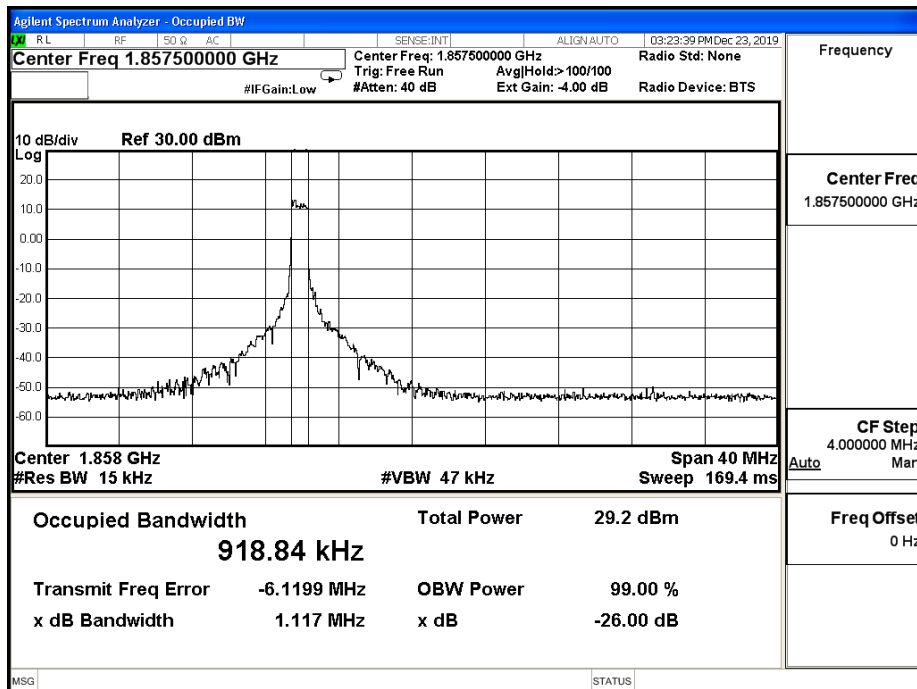
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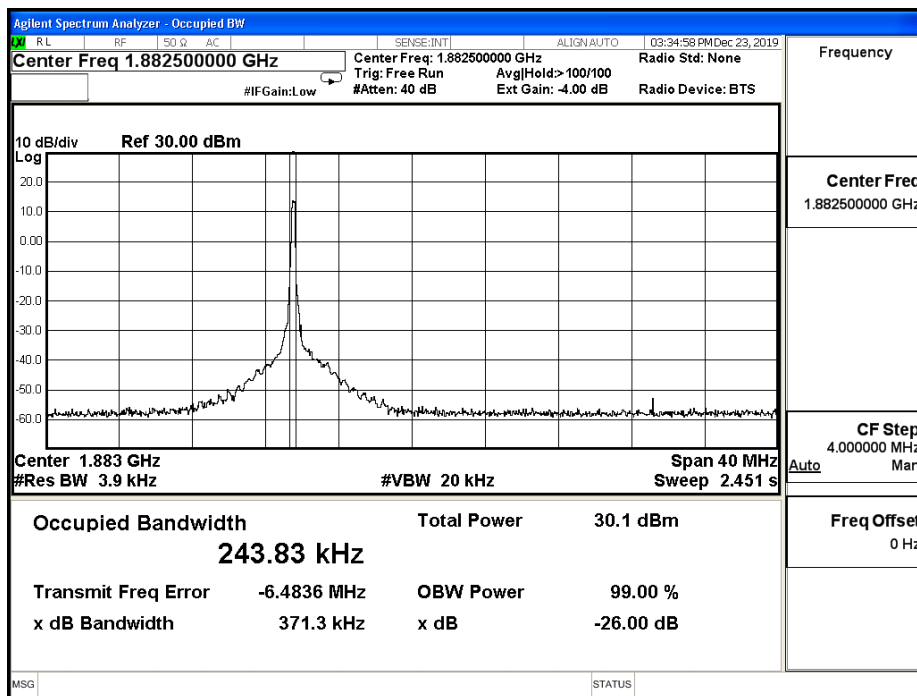
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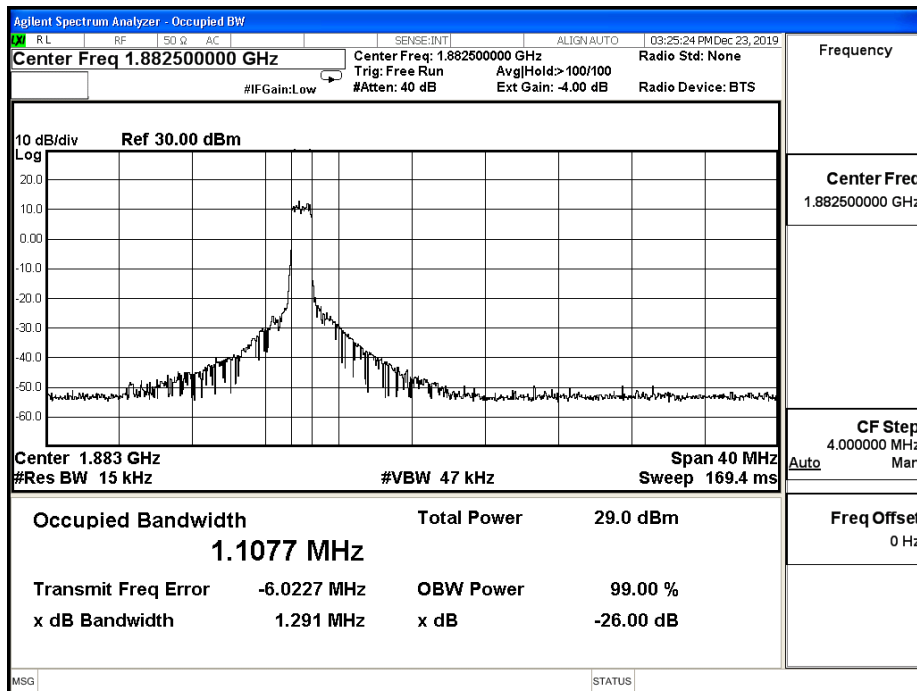
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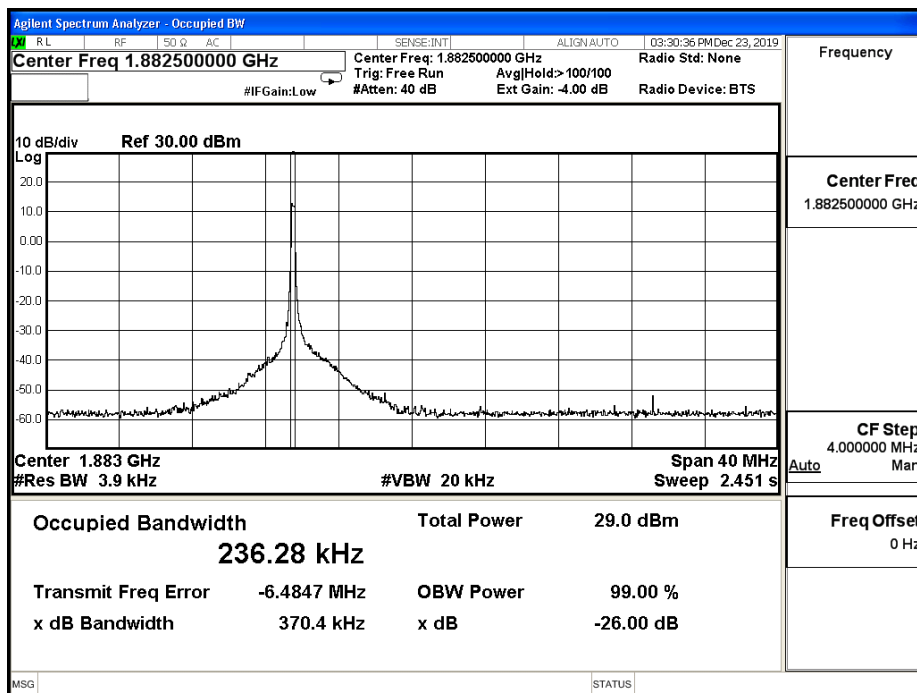
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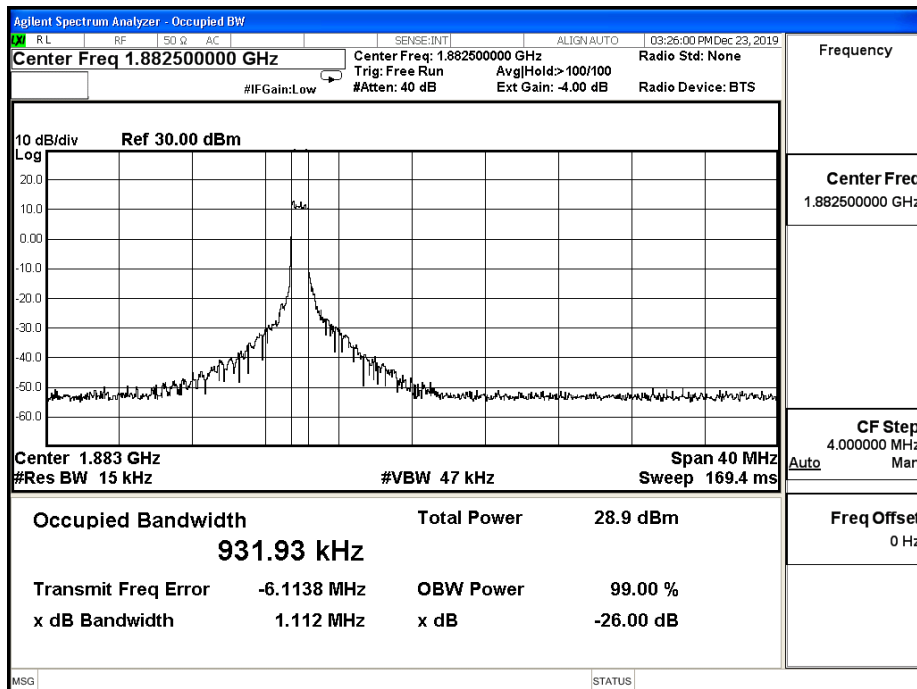
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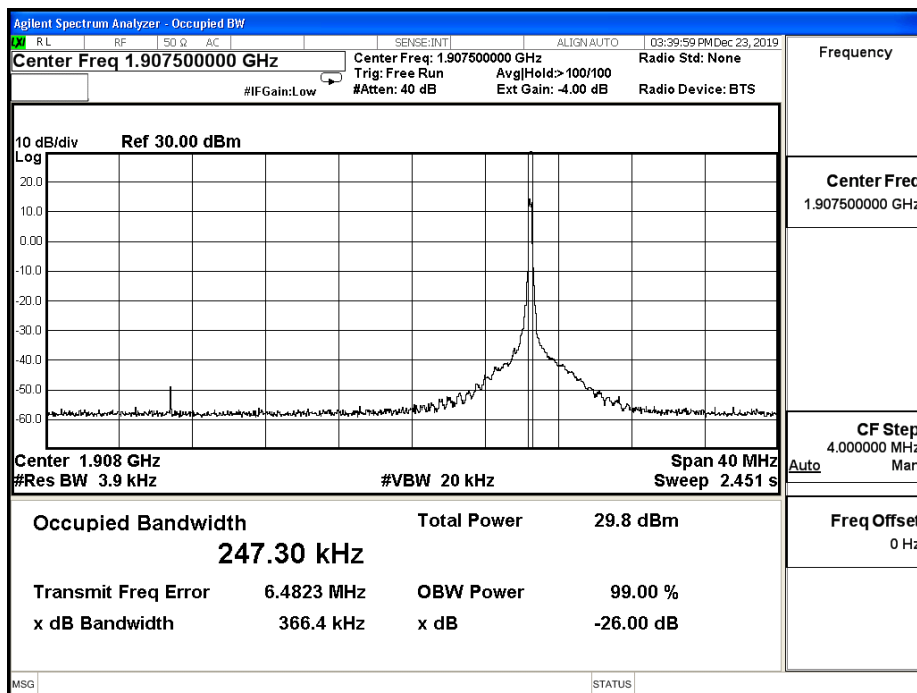
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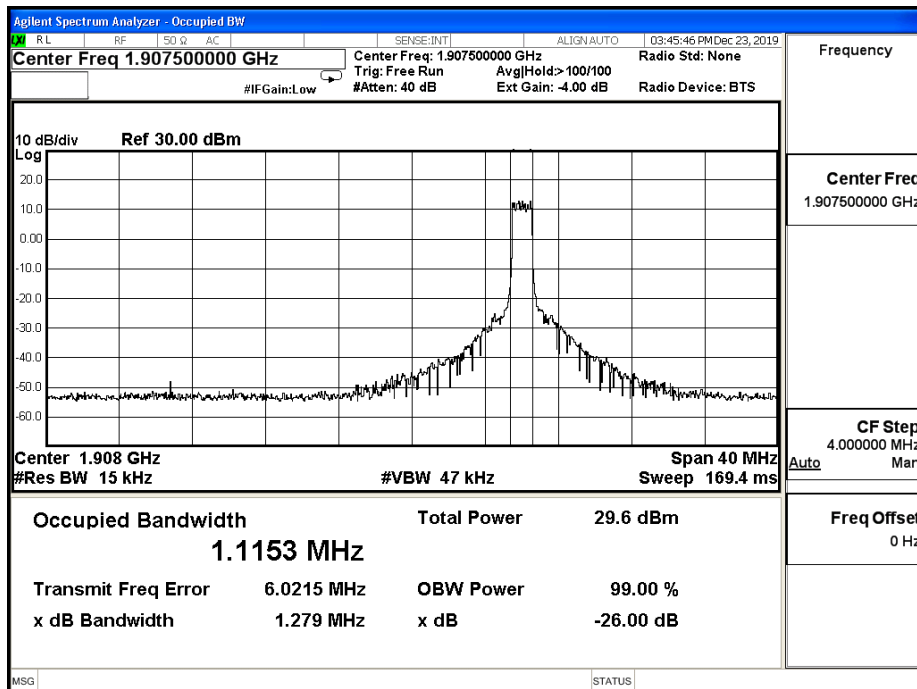
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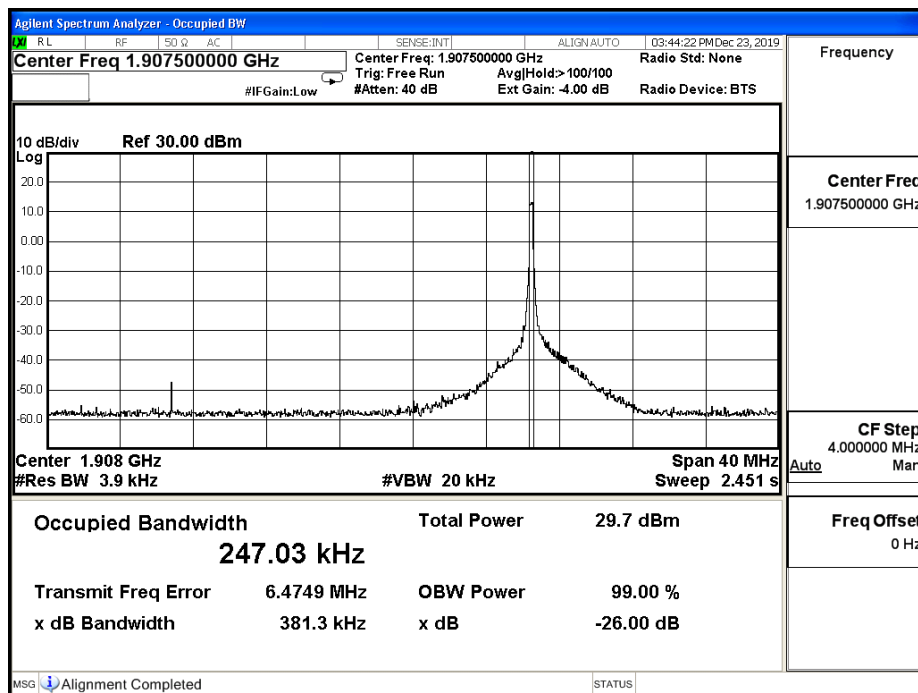
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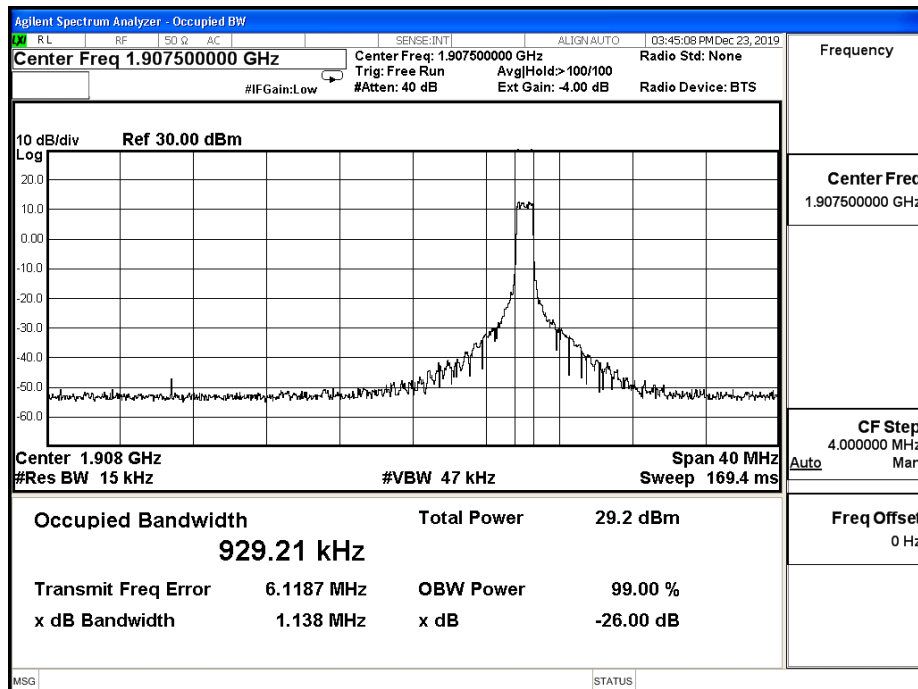
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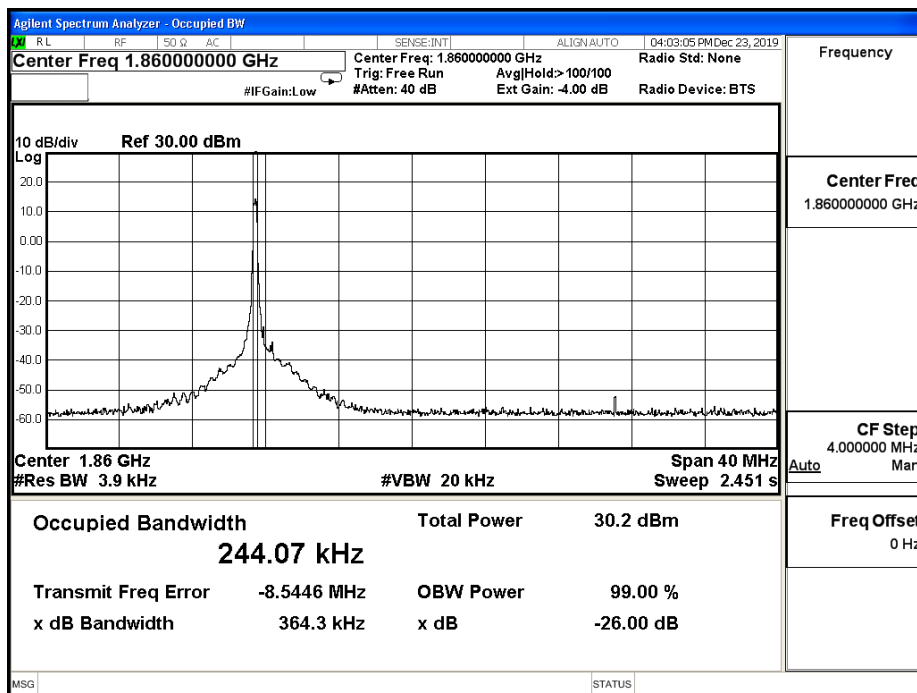
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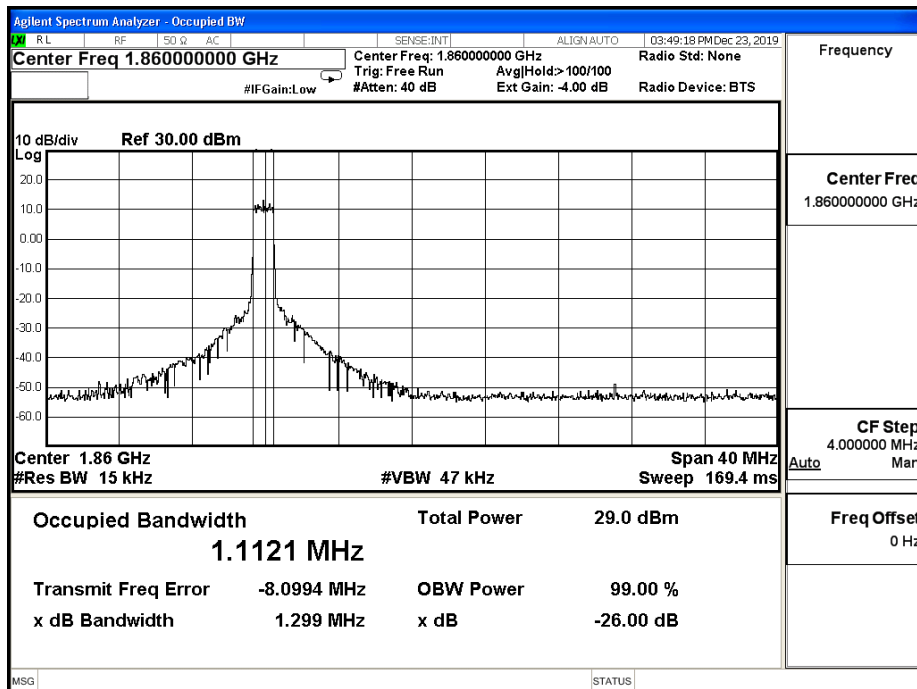
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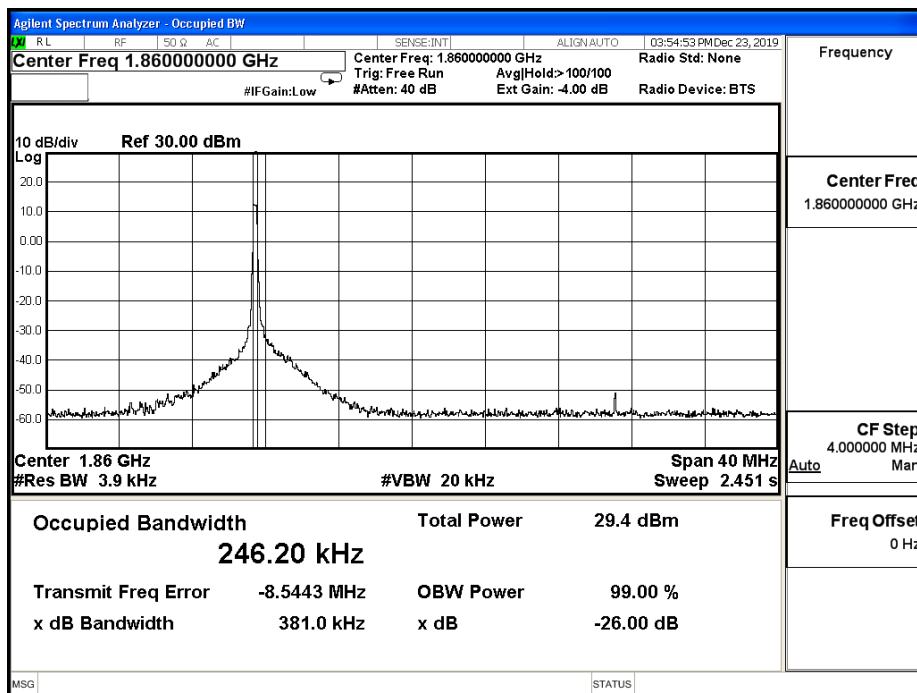
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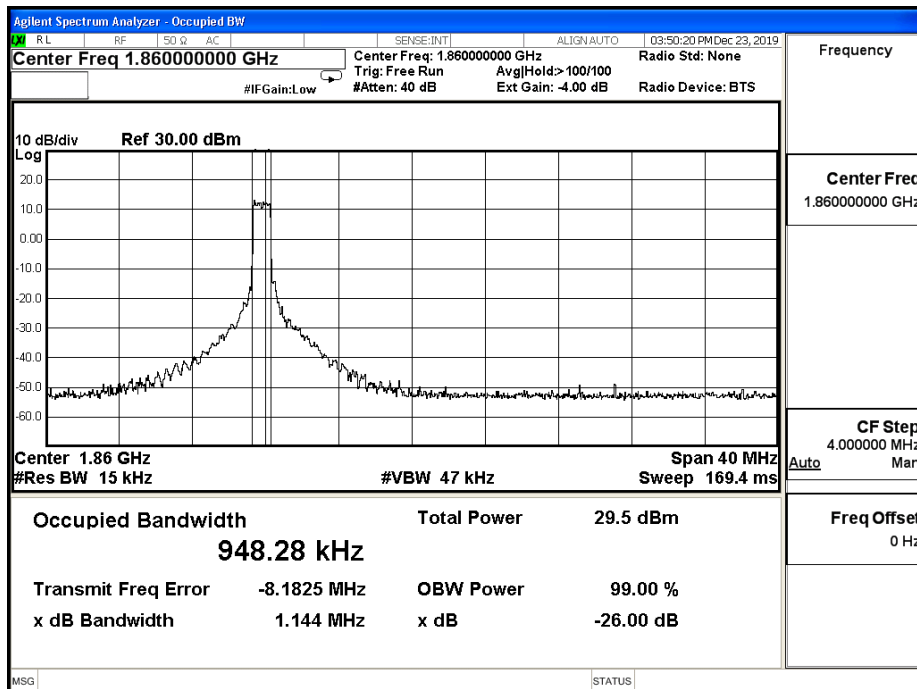
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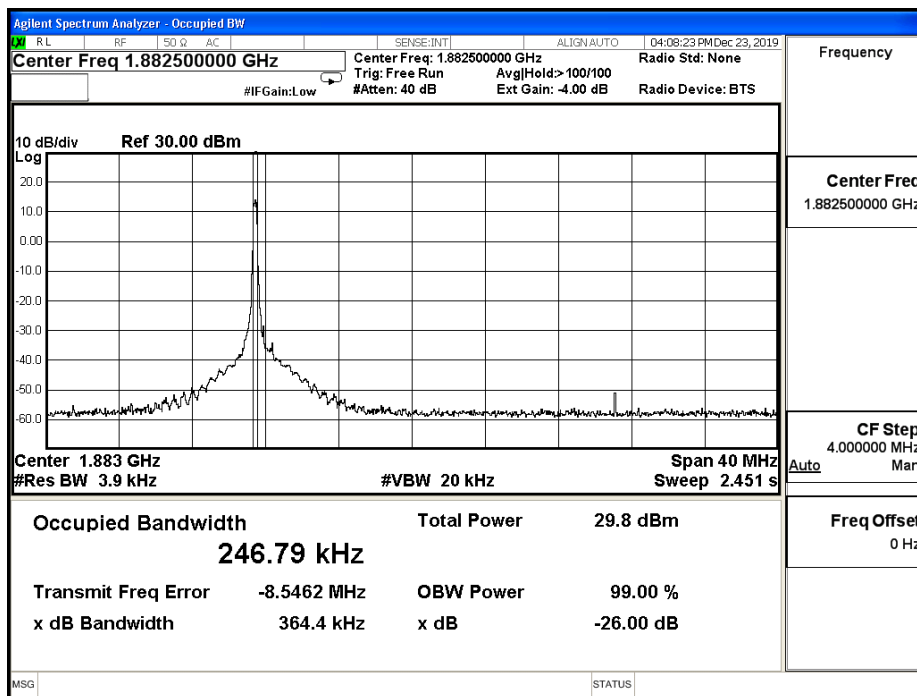
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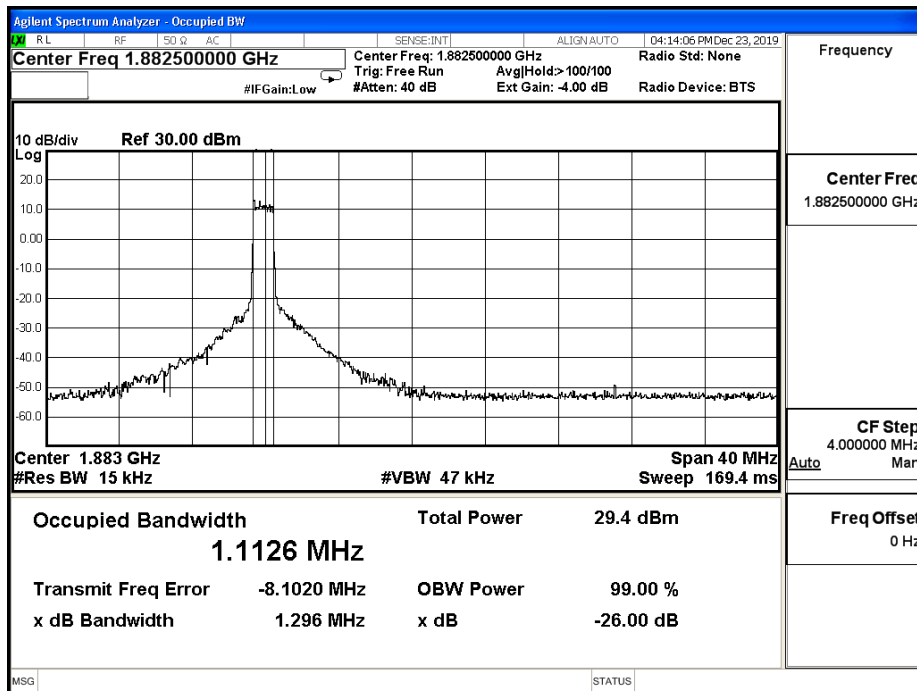
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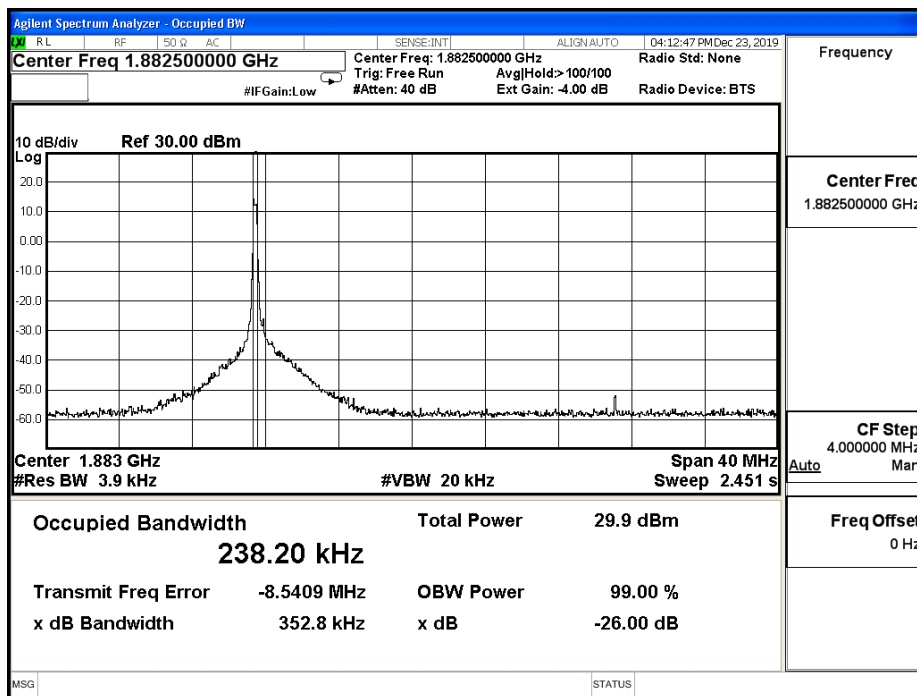
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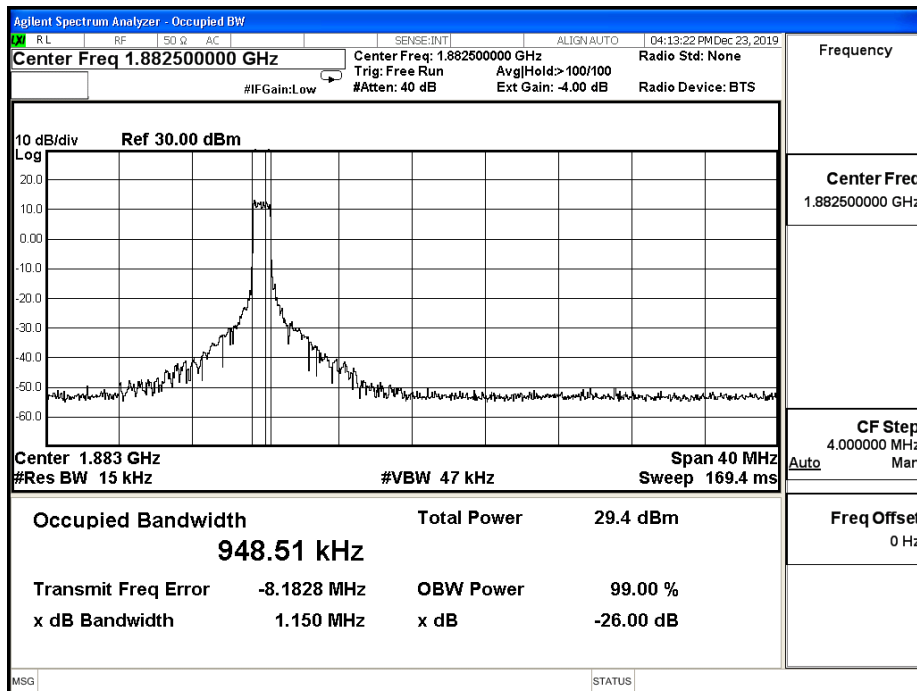
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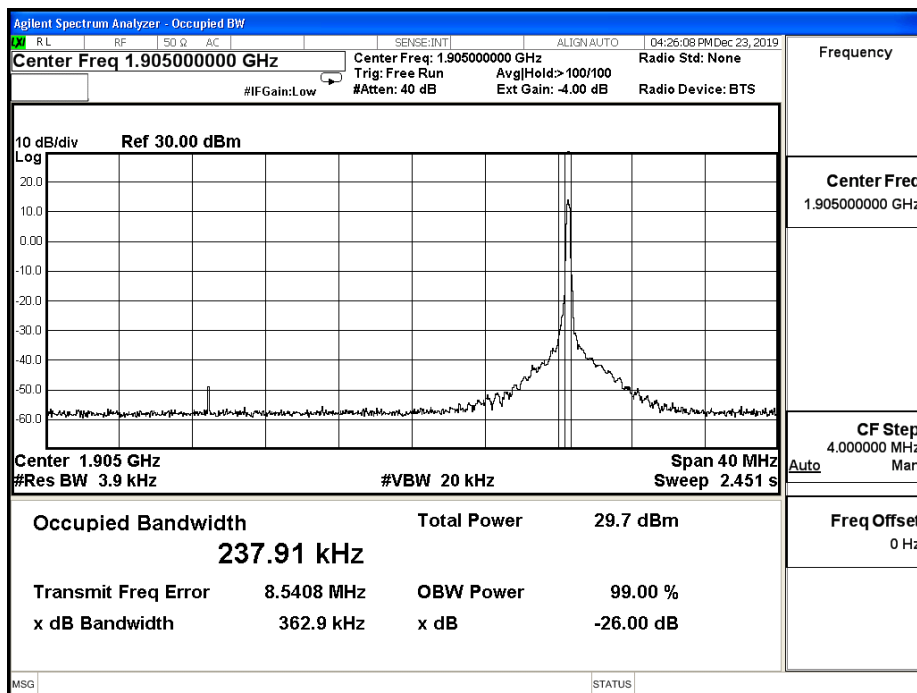
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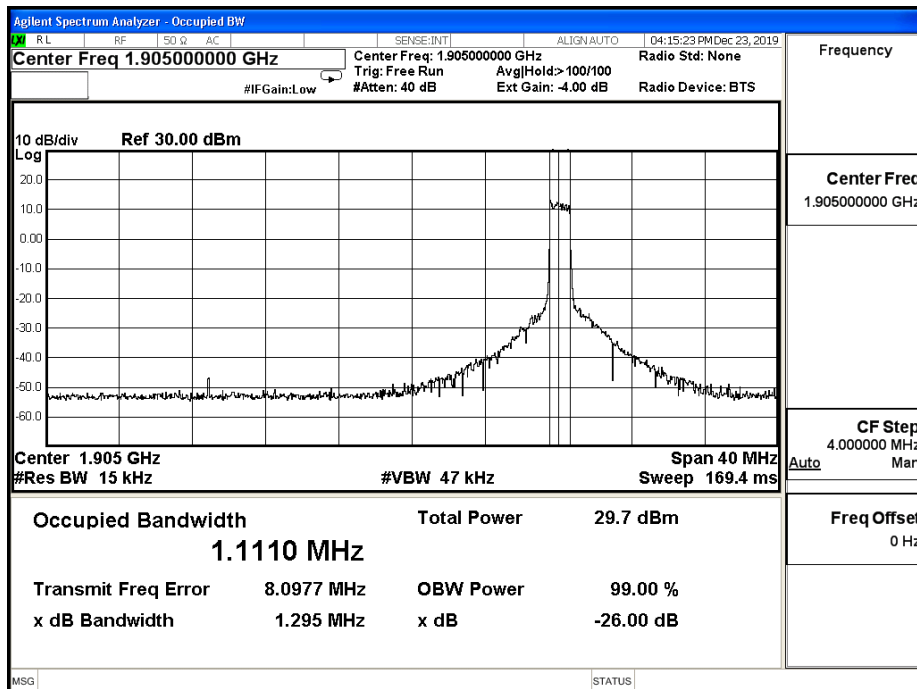
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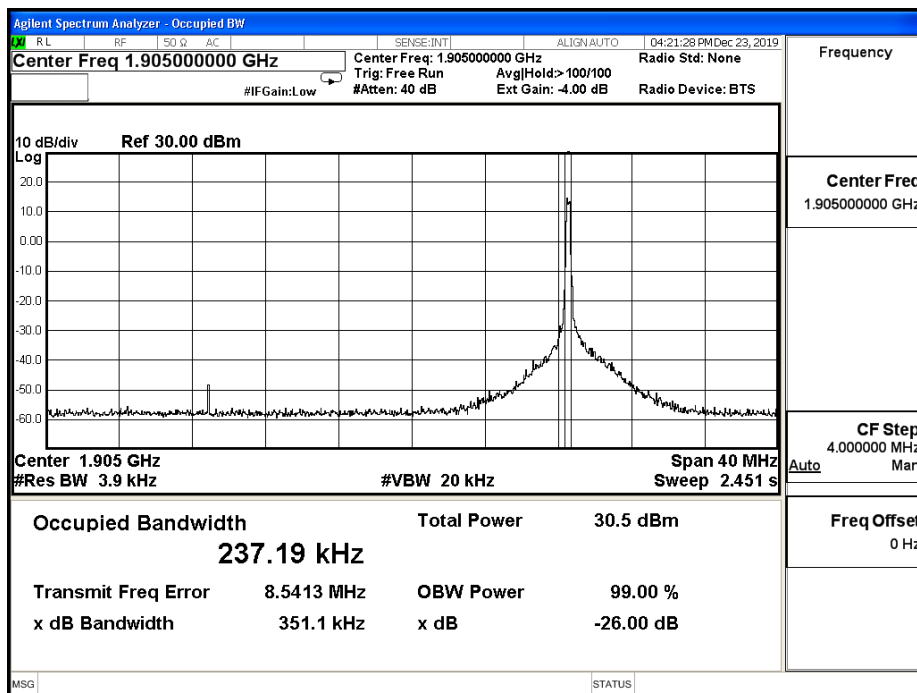
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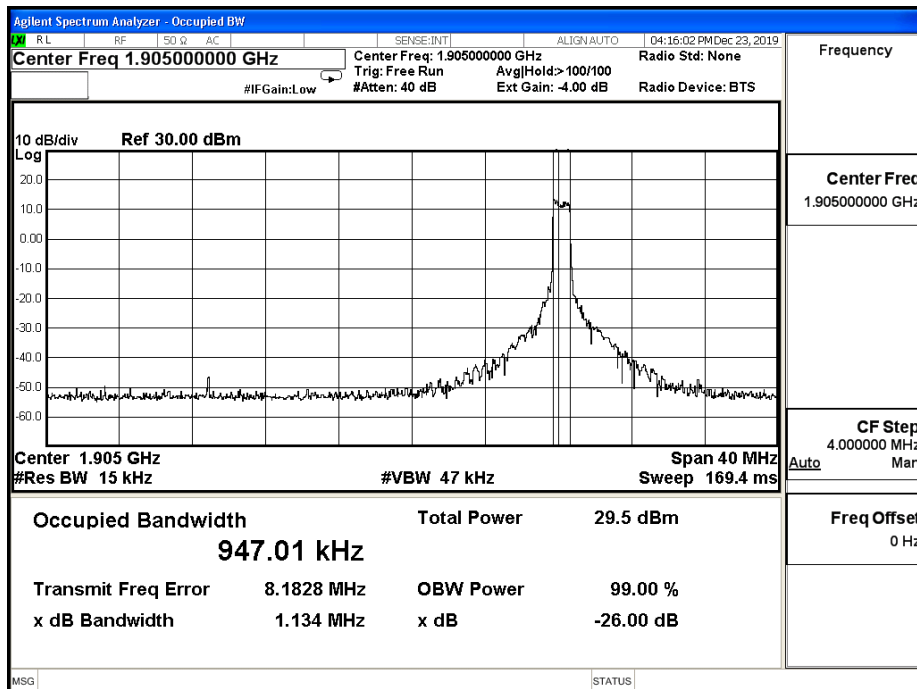
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B25_CH26590_20M_16-QAM_1RB5



B25_CH26590_20M_16-QAM_5RB1

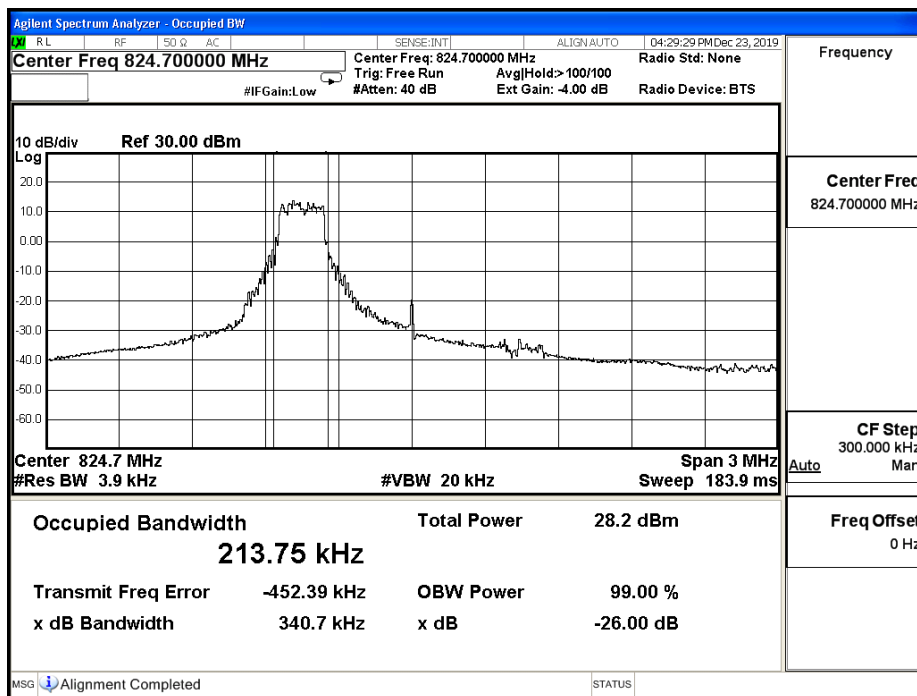


Product	M2M DATA MODULE		
Test Item	Occupied Bandwidth (Part 22)		
Test Mode	Mode 6: LTE Band 26		
Date of Test	2019/12/20	Test Site	SR12-H
Temperature (°C)	22.0°C	Humidity (%RH)	59%RH

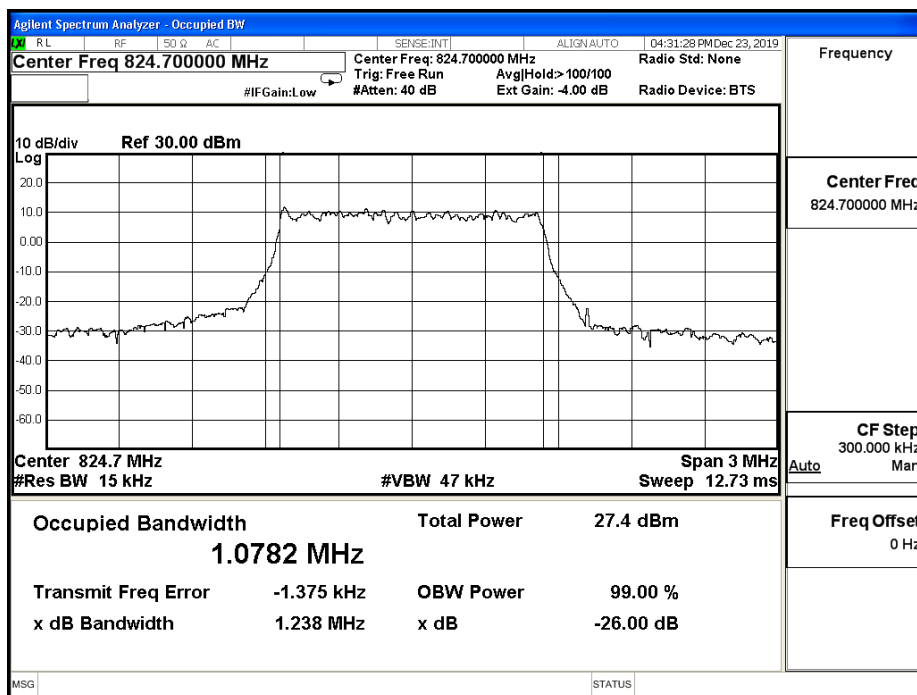
LTE Band 26_1RB (Part 22)					
Band width (MHz)	Modulation	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
			26dB BW	99% BW	
1.4M	QPSK	824.7	0.340	0.213	N/A
		836.5	0.340	0.214	N/A
		848.3	0.310	0.203	N/A
	16-QAM	824.7	0.302	0.207	N/A
		836.5	0.307	0.207	N/A
		848.3	0.320	0.208	N/A
3M	QPSK	825.5	0.344	0.220	N/A
		836.5	0.346	0.223	N/A
		847.5	0.343	0.211	N/A
	16-QAM	825.5	0.310	0.214	N/A
		836.5	0.349	0.218	N/A
		847.5	0.331	0.209	N/A
5M	QPSK	826.5	0.334	0.222	N/A
		836.5	0.323	0.219	N/A
		846.5	0.326	0.209	N/A
	16-QAM	826.5	0.318	0.216	N/A
		836.5	0.317	0.218	N/A
		846.5	0.326	0.219	N/A
10M	QPSK	829.0	0.325	0.206	N/A
		836.5	0.325	0.206	N/A
		844.0	0.323	0.206	N/A
	16-QAM	829.0	0.321	0.209	N/A
		836.5	0.320	0.209	N/A
		844.0	0.310	0.208	N/A
15M	QPSK	831.5	0.311	0.204	N/A
		836.5	0.323	0.205	N/A
		841.5	0.321	0.207	N/A
	16-QAM	831.5	0.327	0.203	N/A
		836.5	0.327	0.205	N/A
		841.5	0.327	0.211	N/A

LTE Band 26_Part 22_Full RB (Part 22)					
Band width (MHz)	Modulation	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
			26dB BW	99% BW	
1.4M	QPSK	824.7	1.238	1.078	N/A
		836.5	1.232	1.076	N/A
		848.3	1.232	1.078	N/A
	16-QAM	824.7	1.055	0.908	N/A
		836.5	1.065	0.907	N/A
		848.3	1.066	0.909	N/A
3M	QPSK	825.5	1.245	1.082	N/A
		836.5	1.256	1.082	N/A
		847.5	1.249	1.083	N/A
	16-QAM	825.5	1.065	0.913	N/A
		836.5	1.067	0.908	N/A
		847.5	1.093	0.914	N/A
5M	QPSK	826.5	1.253	1.086	N/A
		836.5	1.235	1.086	N/A
		846.5	1.240	1.081	N/A
	16-QAM	826.5	1.086	0.914	N/A
		836.5	1.075	0.915	N/A
		846.5	1.075	0.911	N/A
10M	QPSK	829.0	1.218	1.074	N/A
		836.5	1.223	1.076	N/A
		844.0	1.244	1.083	N/A
	16-QAM	829.0	1.085	0.905	N/A
		836.5	1.089	0.908	N/A
		844.0	1.091	0.907	N/A
15M	QPSK	831.5	1.242	1.085	N/A
		836.5	1.250	1.079	N/A
		841.5	1.231	1.078	N/A
	16-QAM	831.5	1.058	0.904	N/A
		836.5	1.048	0.907	N/A
		841.5	1.097	0.906	N/A

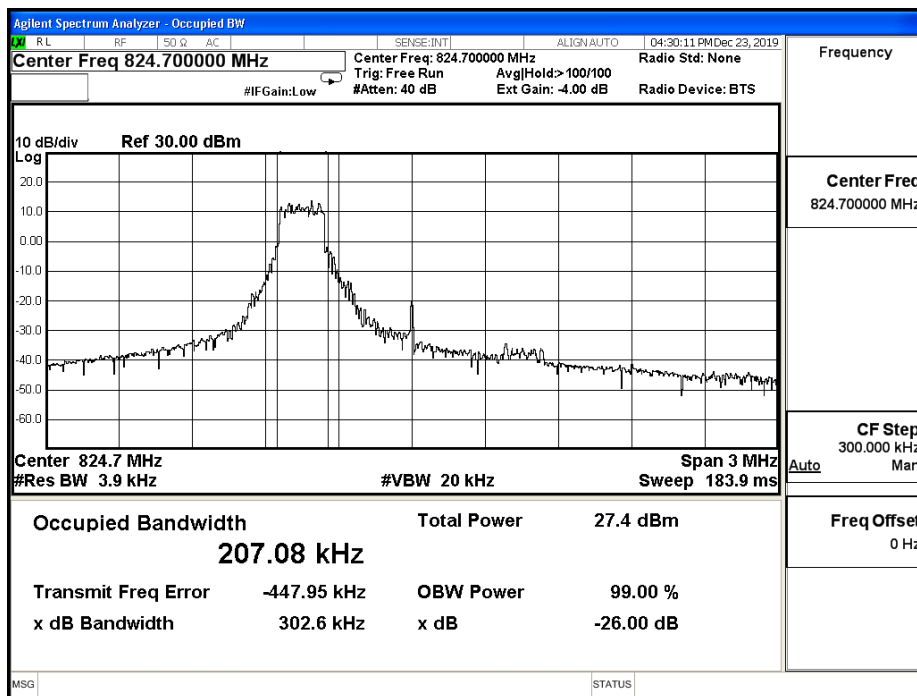
B26_CH26797_1.4M_QPSK_1RB0 (Part 22)



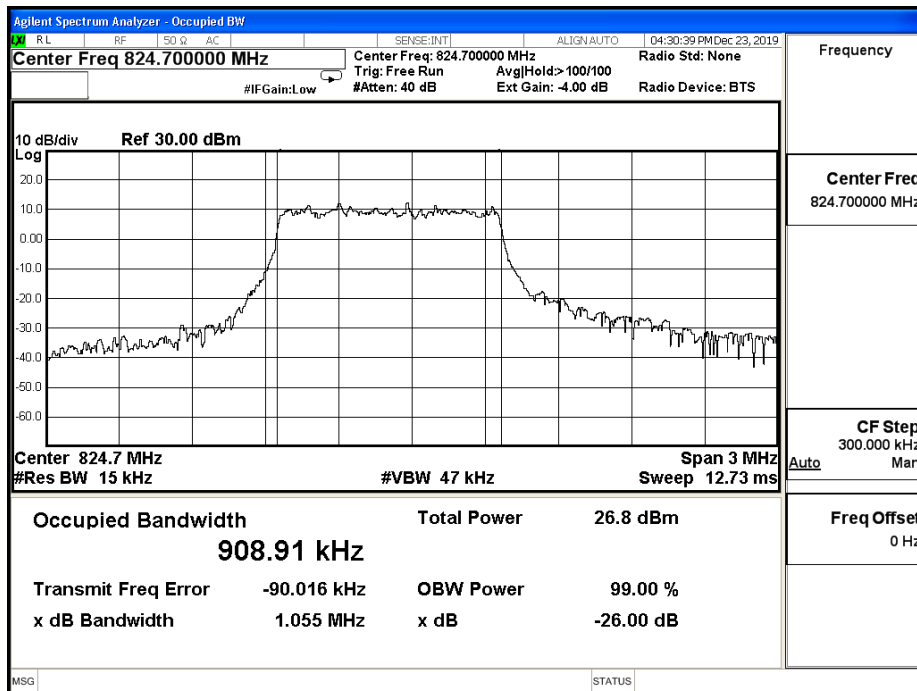
B26_CH26797_1.4M_QPSK_6RB0 (Part 22)



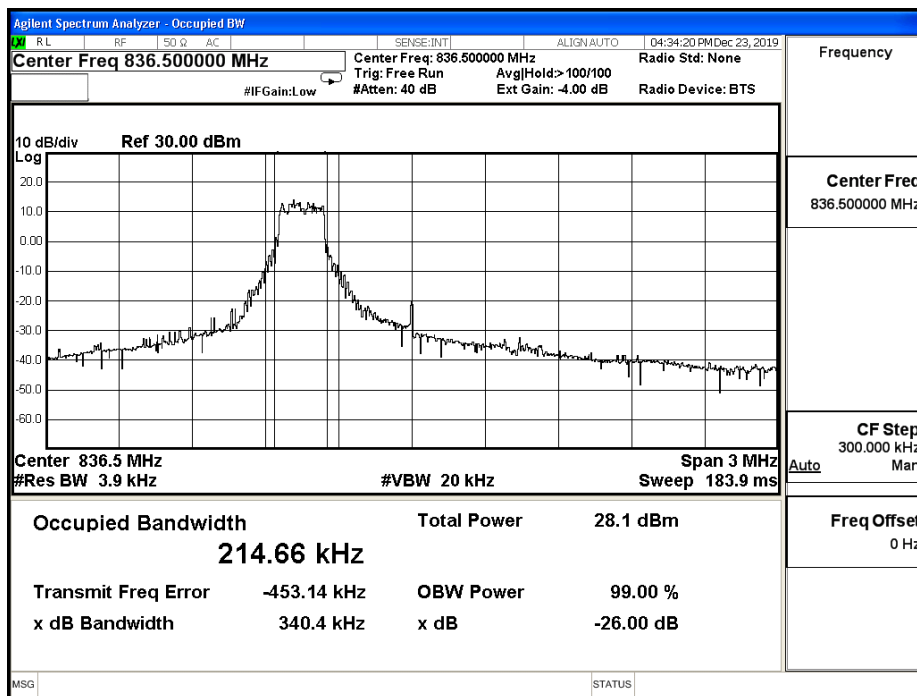
B26_CH26797_1.4M_16-QAM_1RB0 (Part 22)



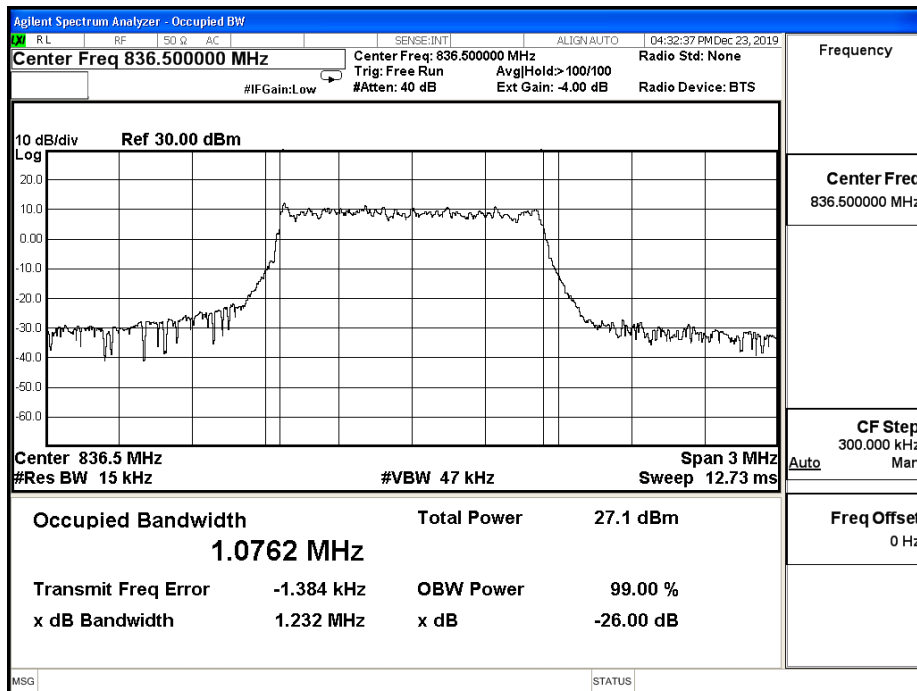
B26_CH26797_1.4M_16-QAM_5RB0 (Part 22)



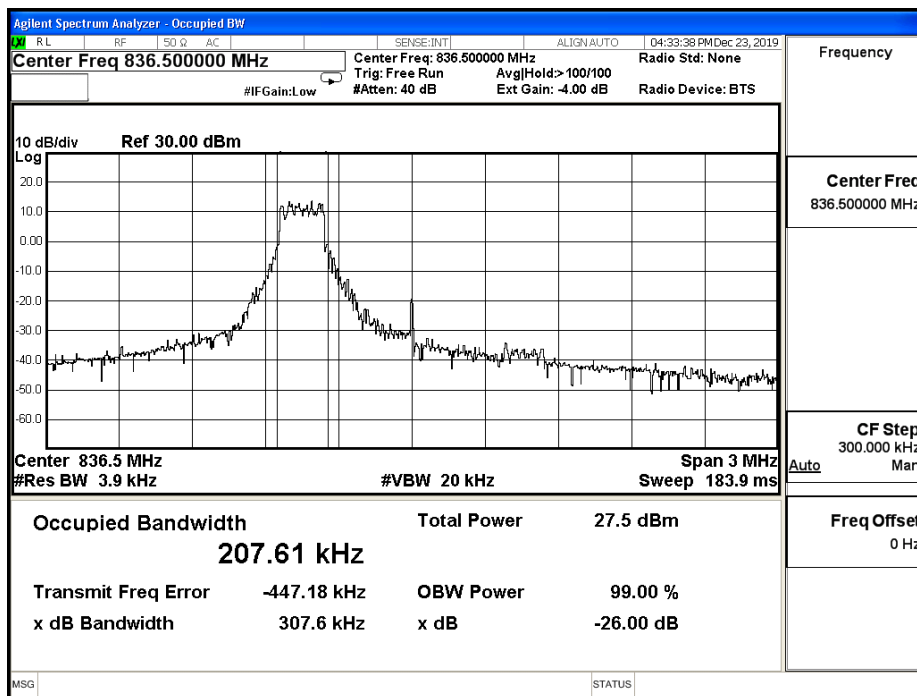
B26_CH26915_1.4M_QPSK_1RB0 (Part 22)



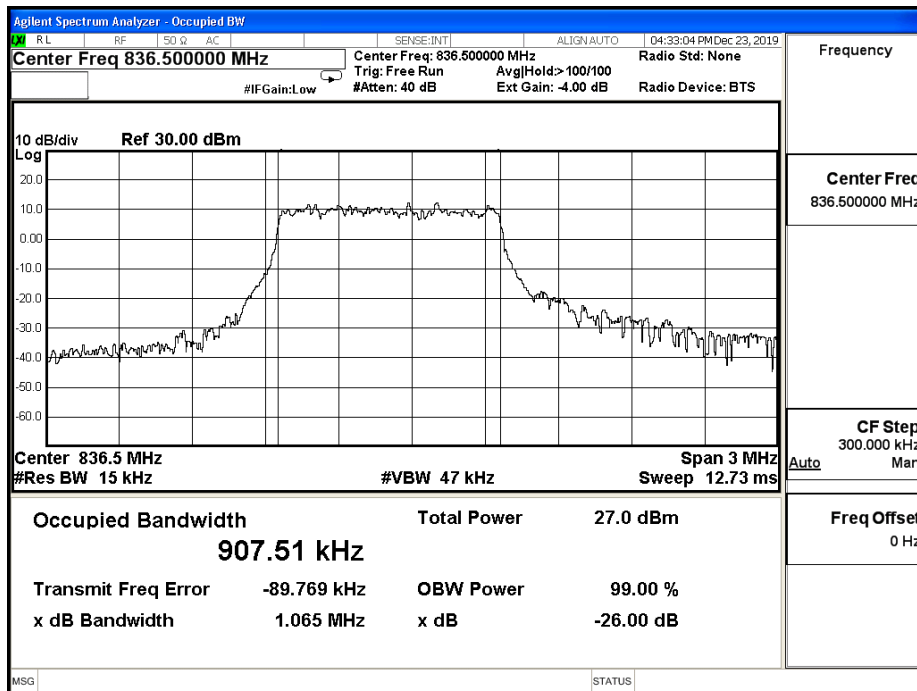
B26_CH26915_1.4M_QPSK_6RB0 (Part 22)



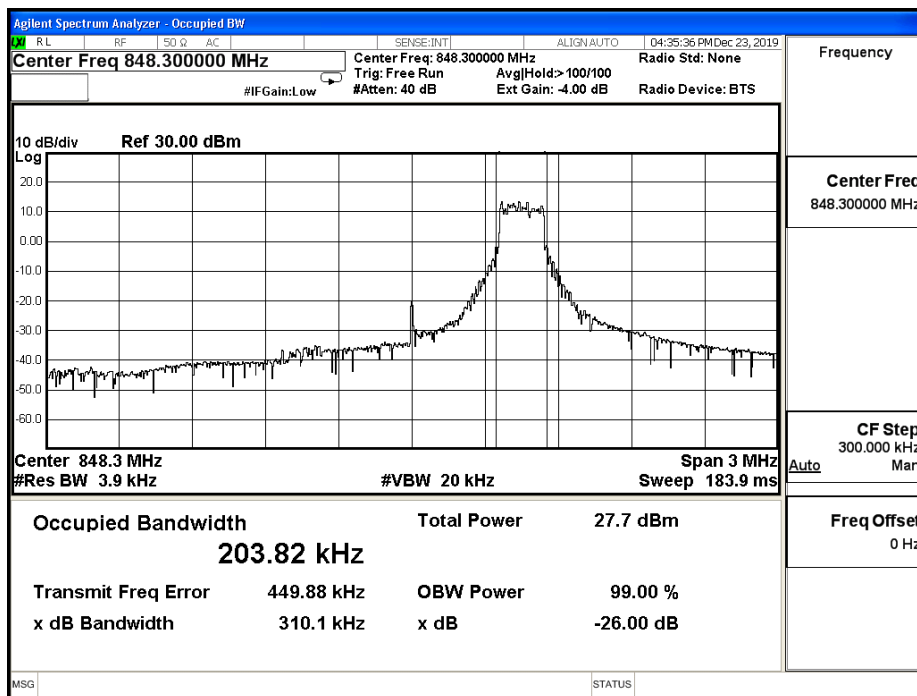
B26_CH26915_1.4M_16-QAM_1RB0 (Part 22)



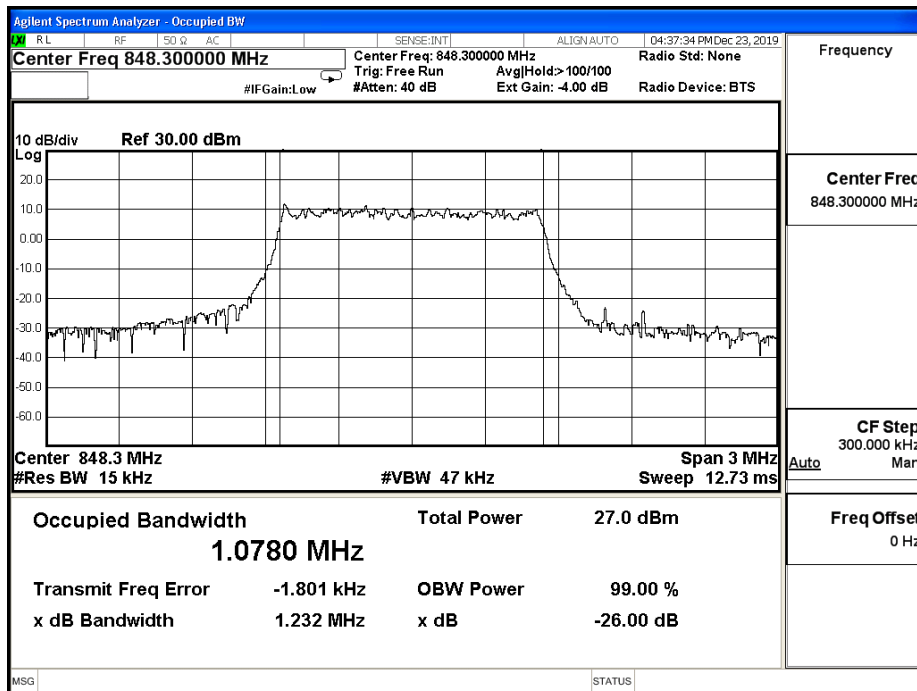
B26_CH26915_1.4M_16-QAM_5RB0 (Part 22)



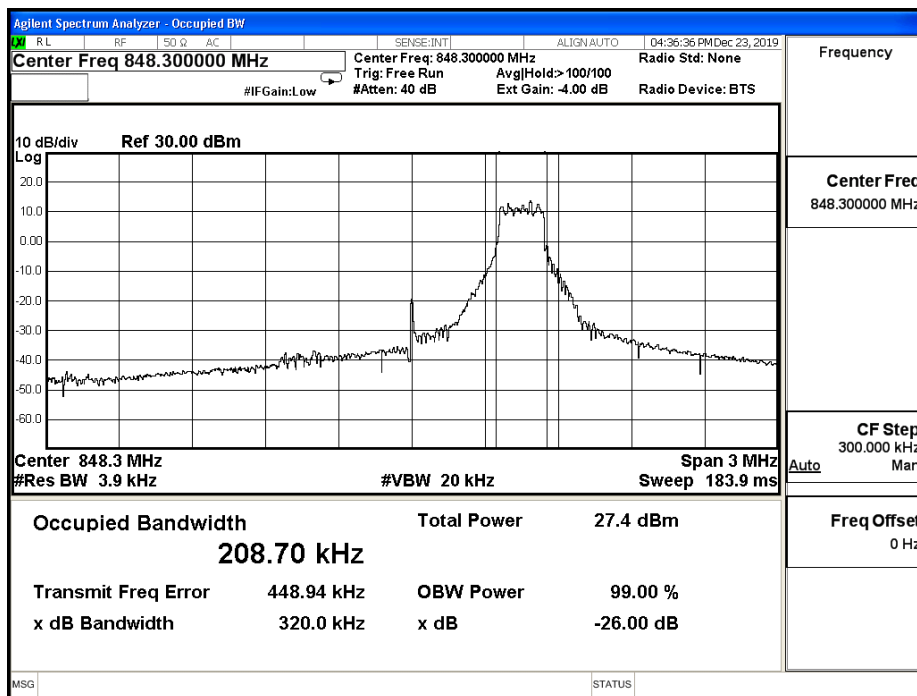
B26_CH27033_1.4M_QPSK_1RB5 (Part 22)



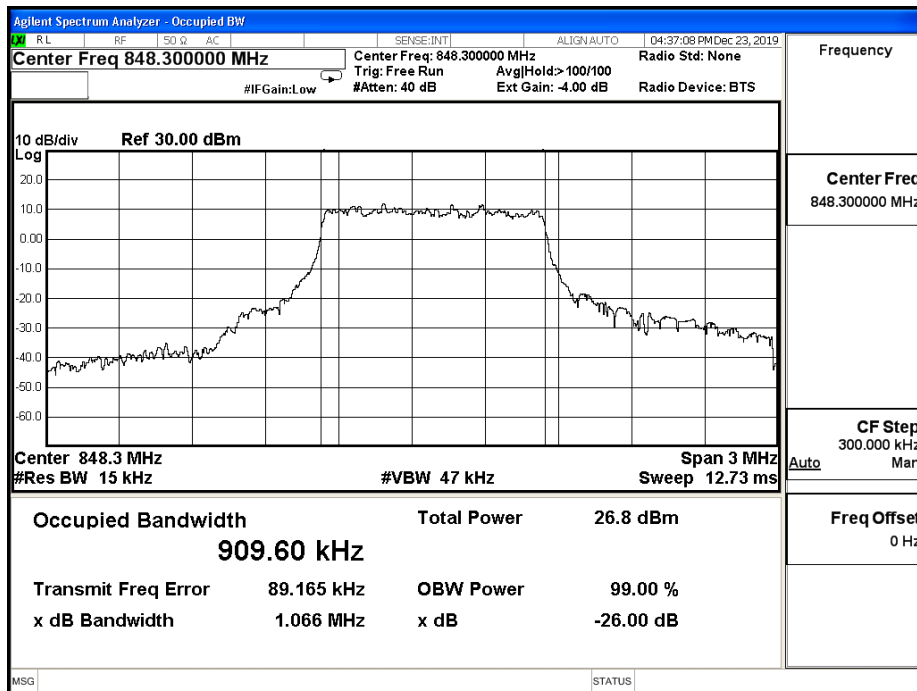
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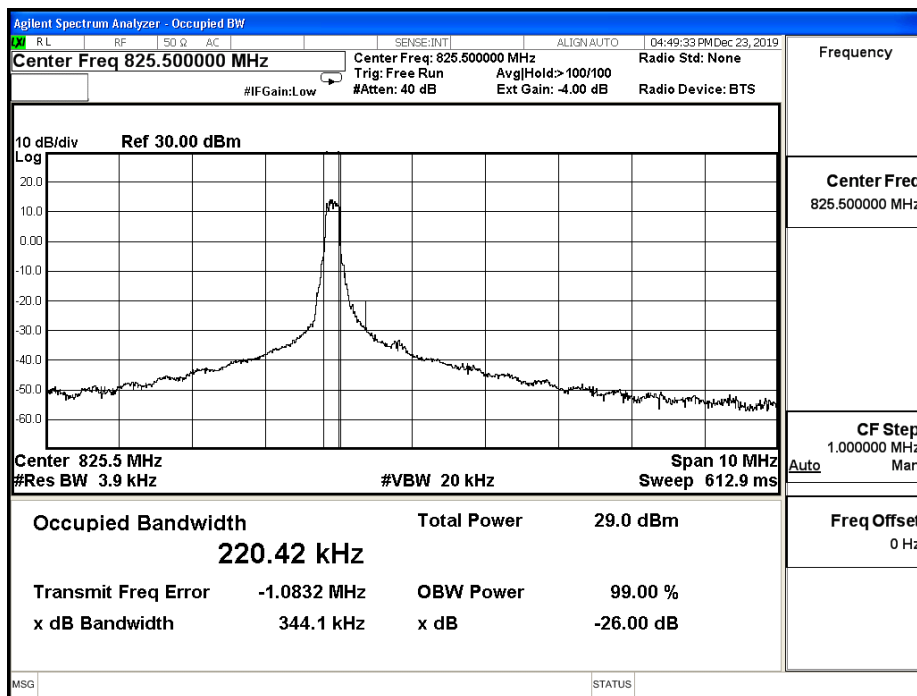
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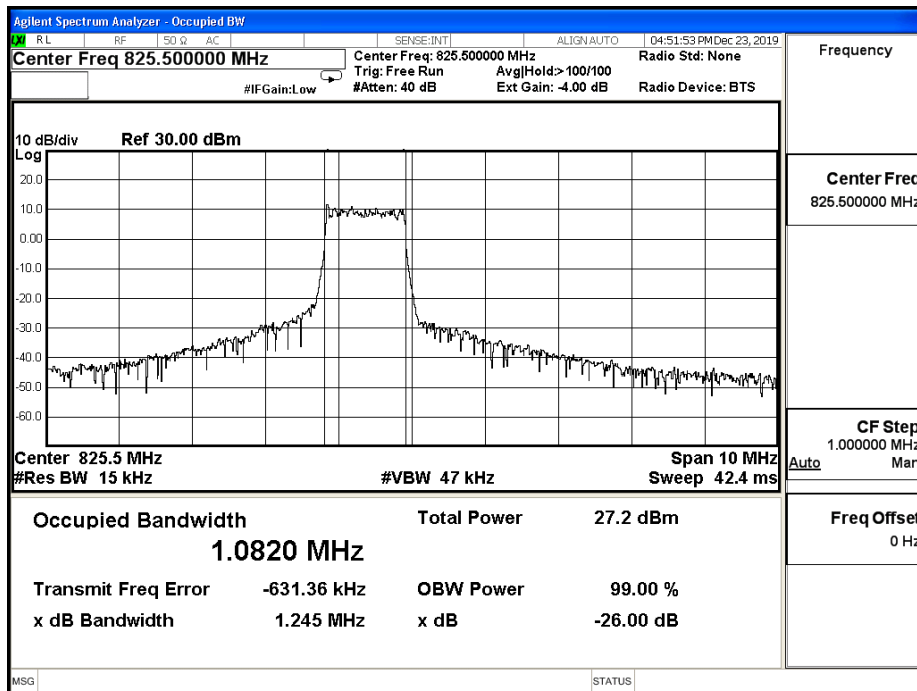
B26_CH27033_1.4M_16-QAM_5RB1 (Part 22)



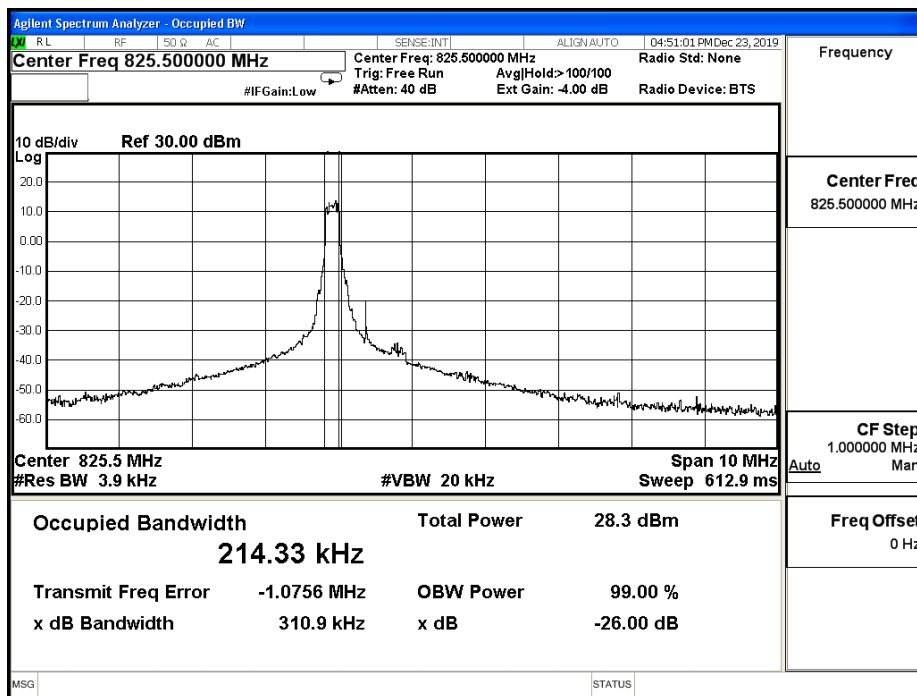
B26_CH26805_3M_QPSK_1RB0 (Part 22)



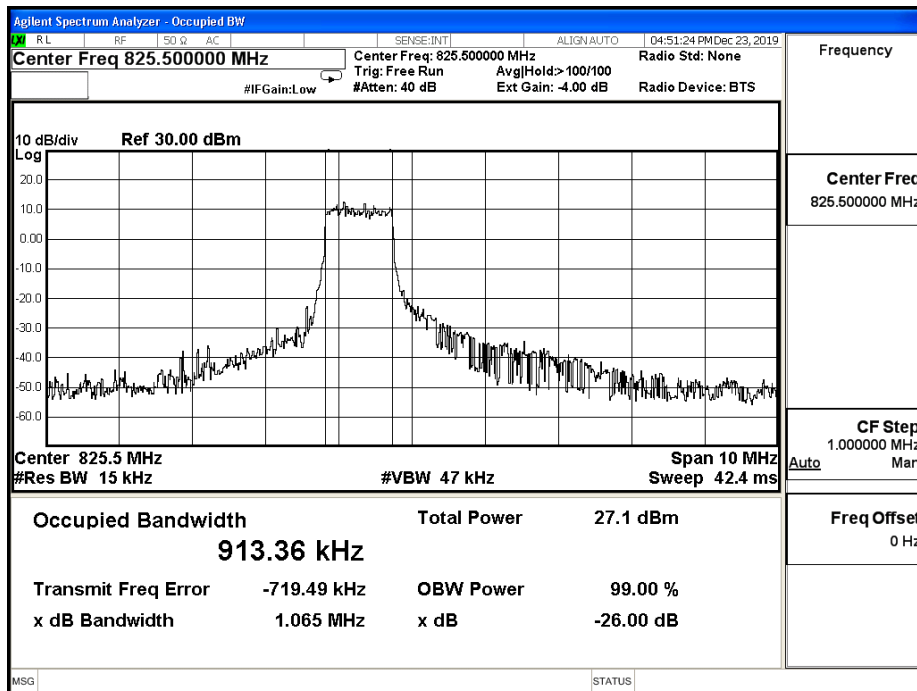
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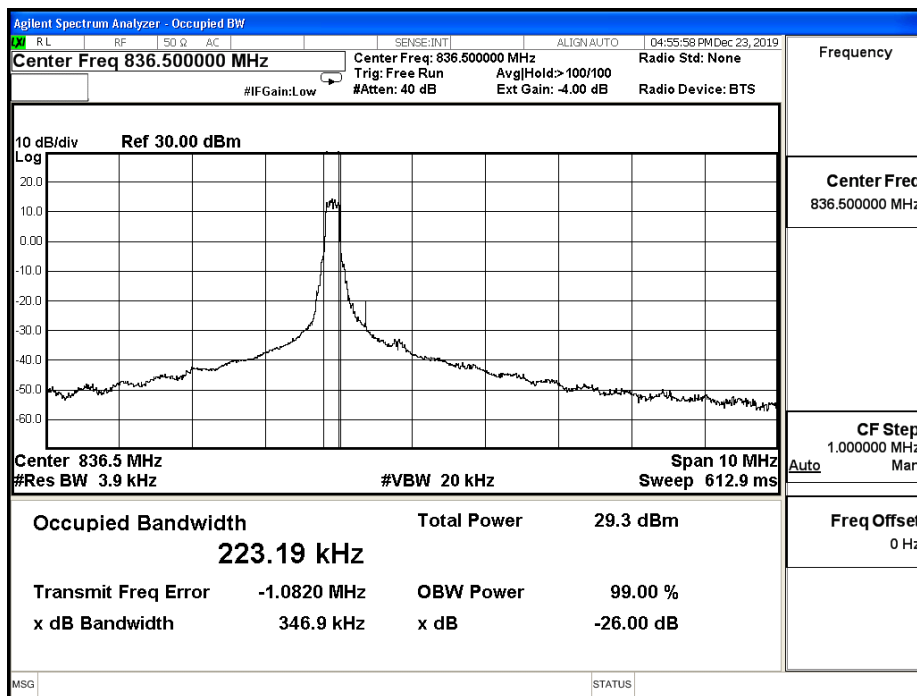
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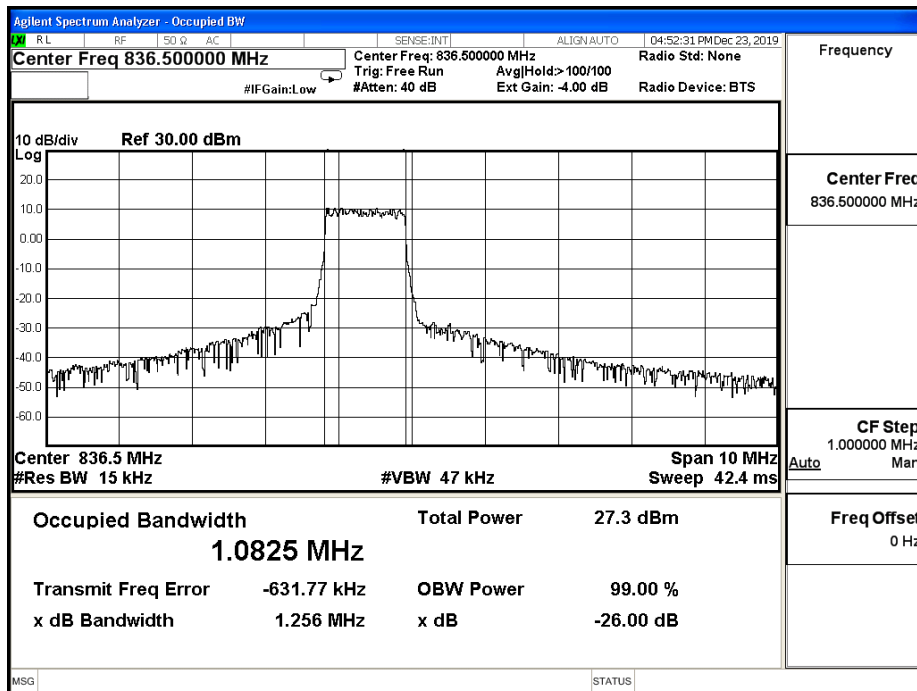
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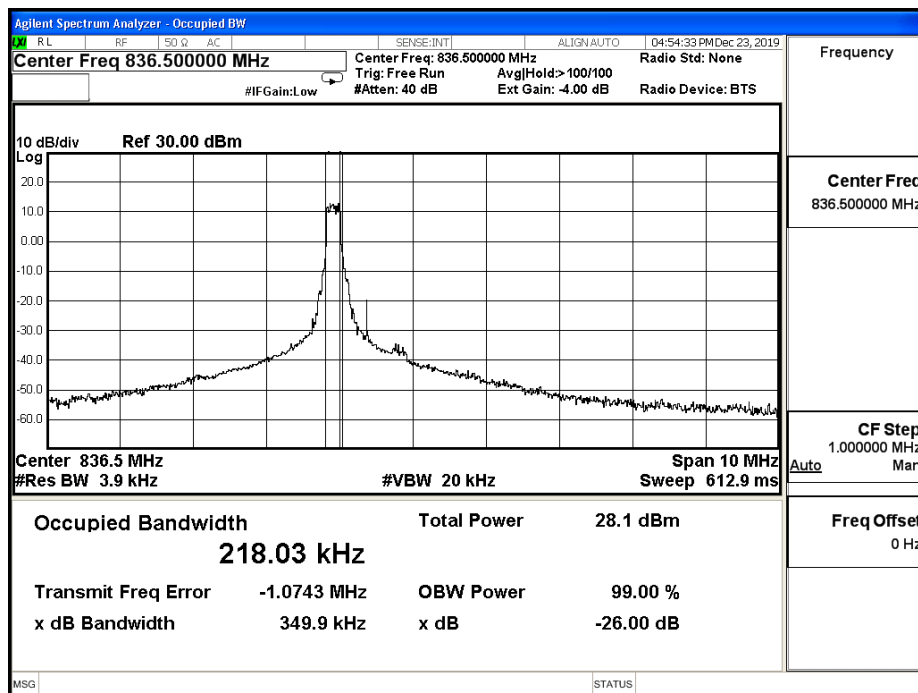
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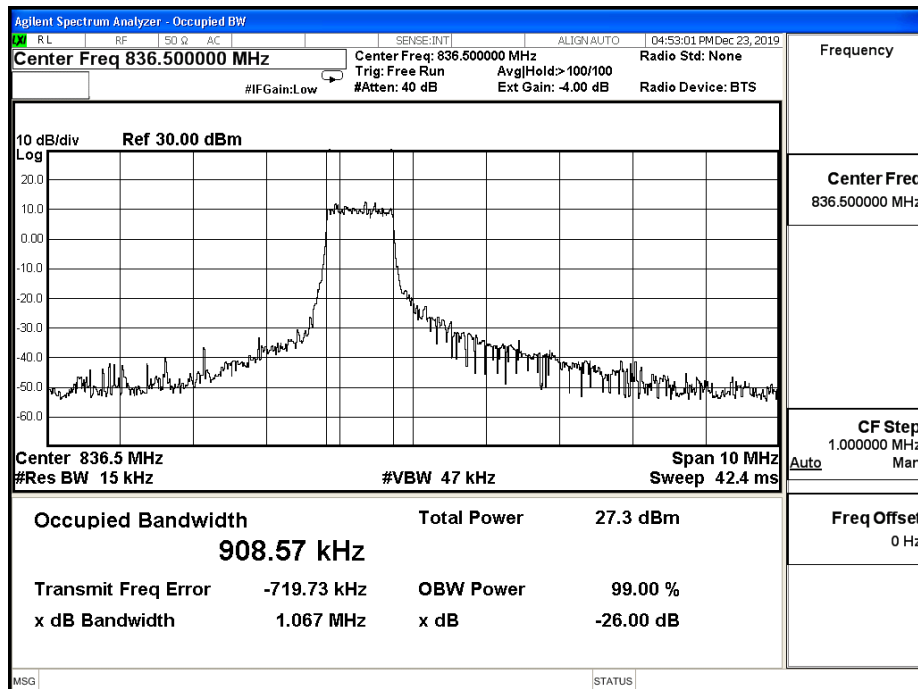
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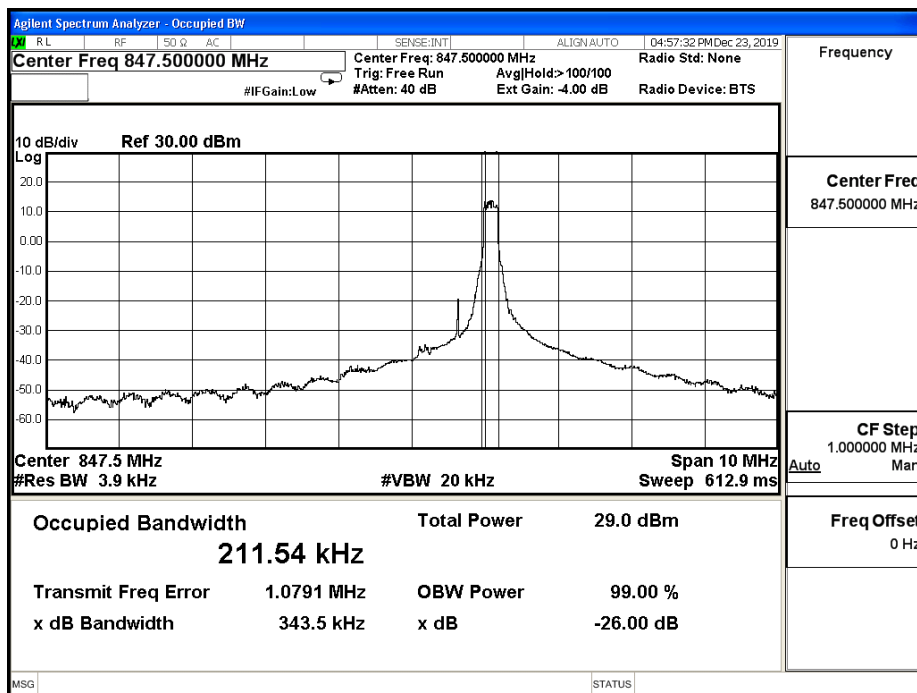
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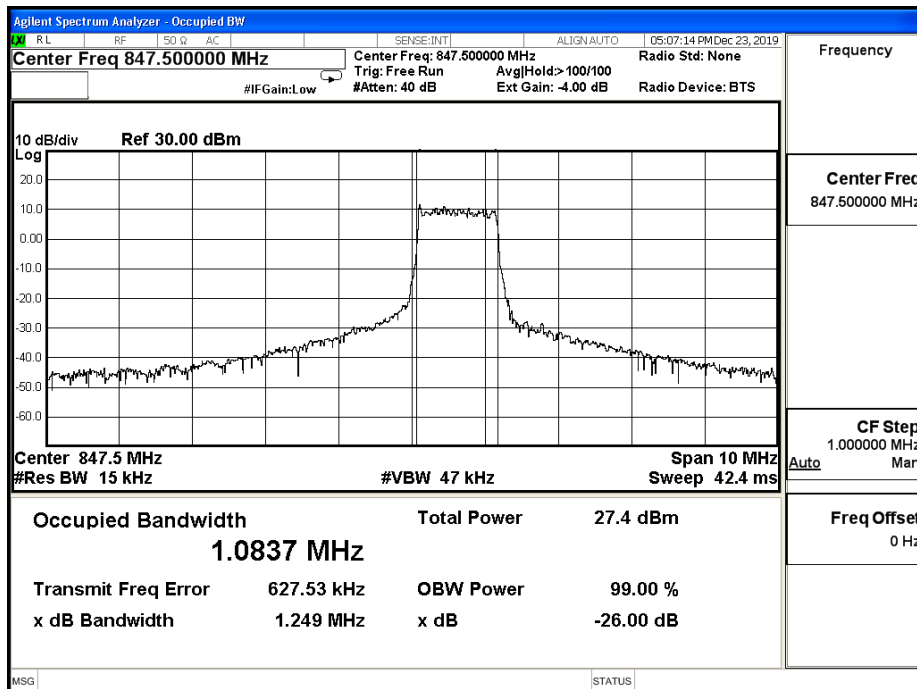
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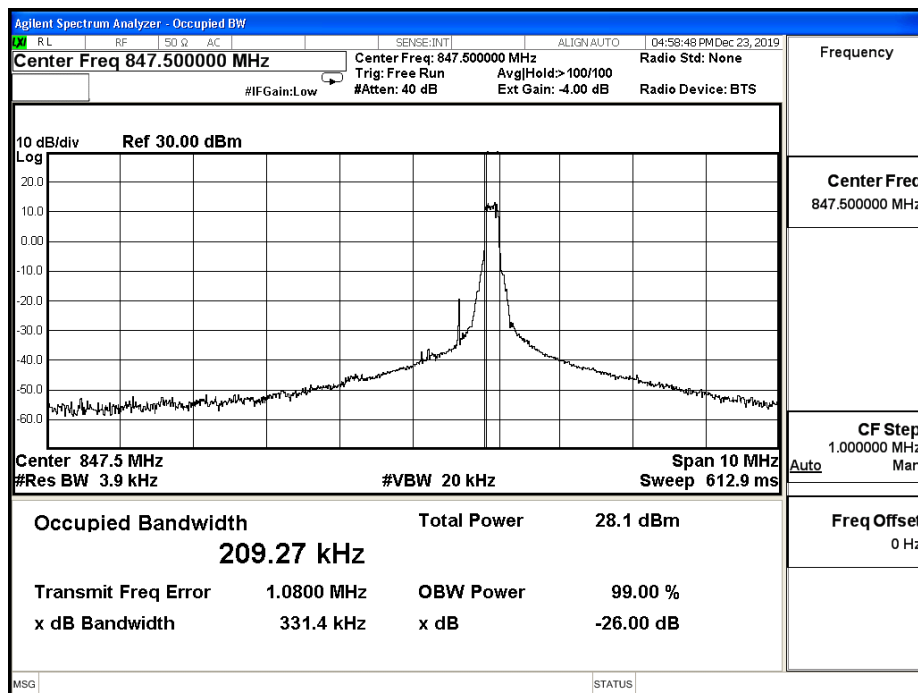
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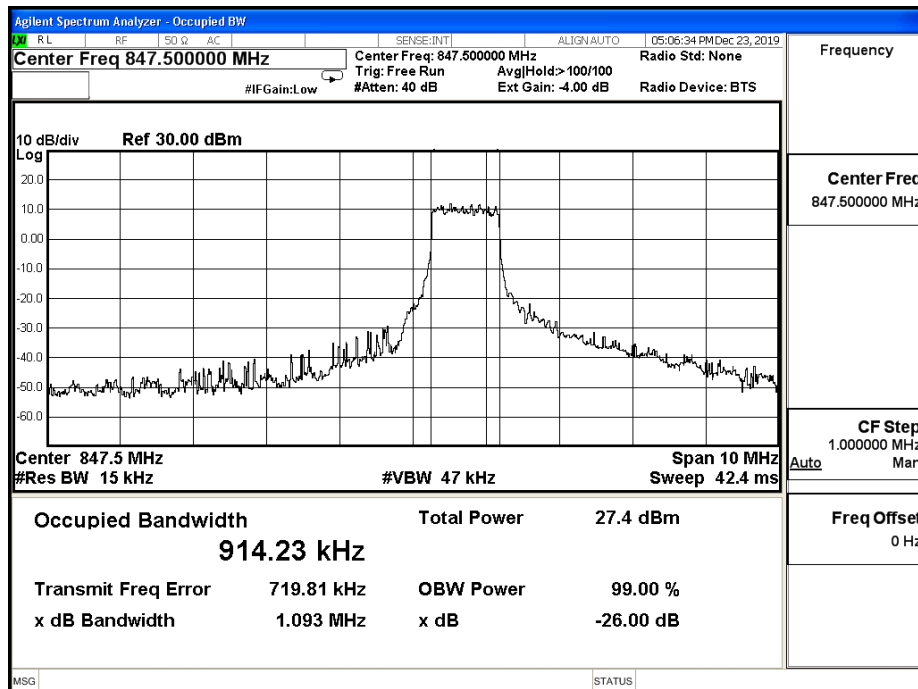
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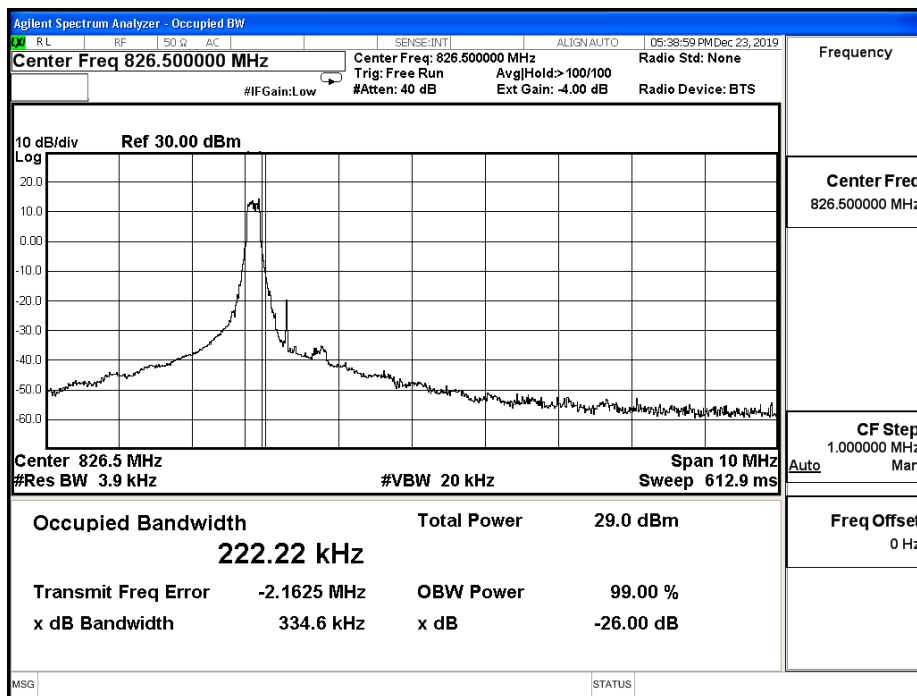
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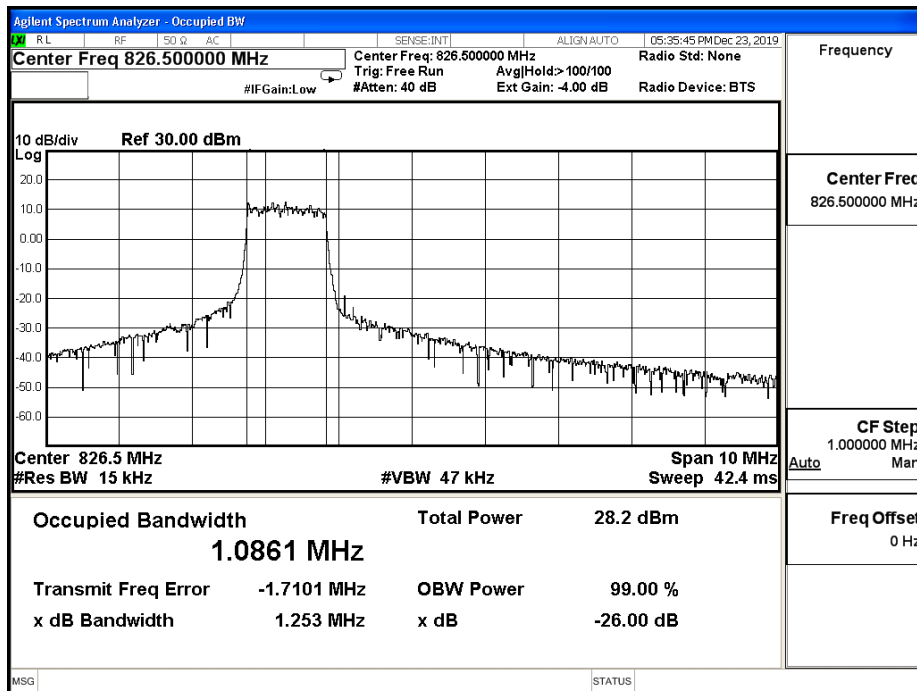
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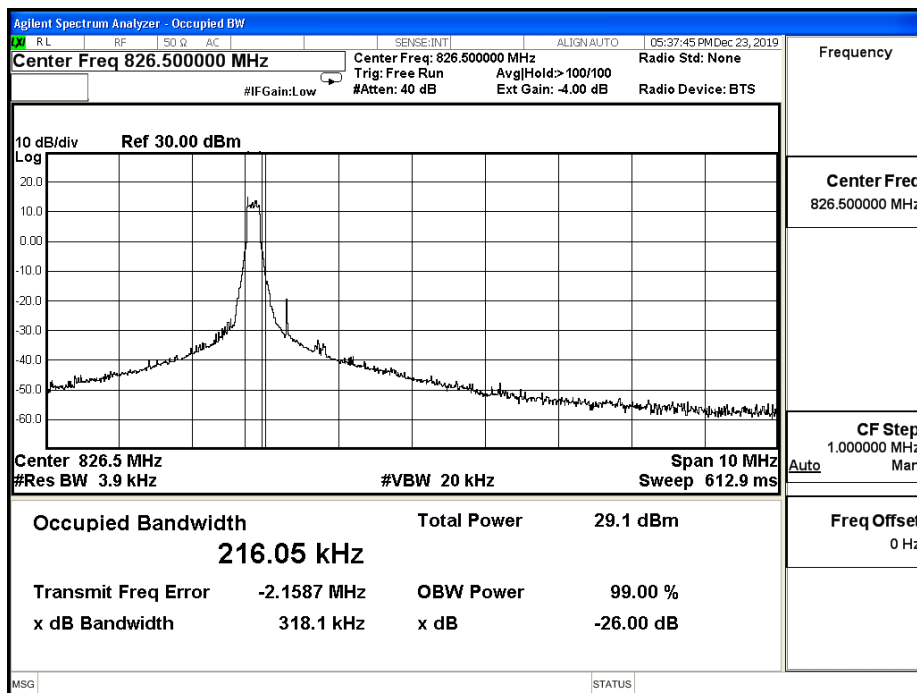
B26_CH26815_5M_QPSK_1RB0 (Part 22)



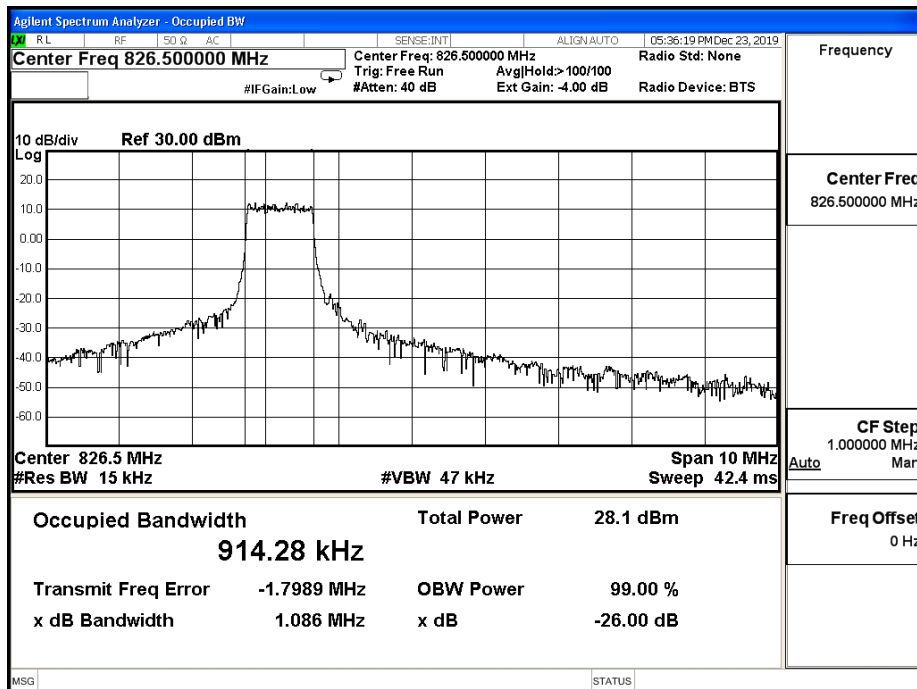
B26_CH26815_5M_QPSK_6RB0 (Part 22)



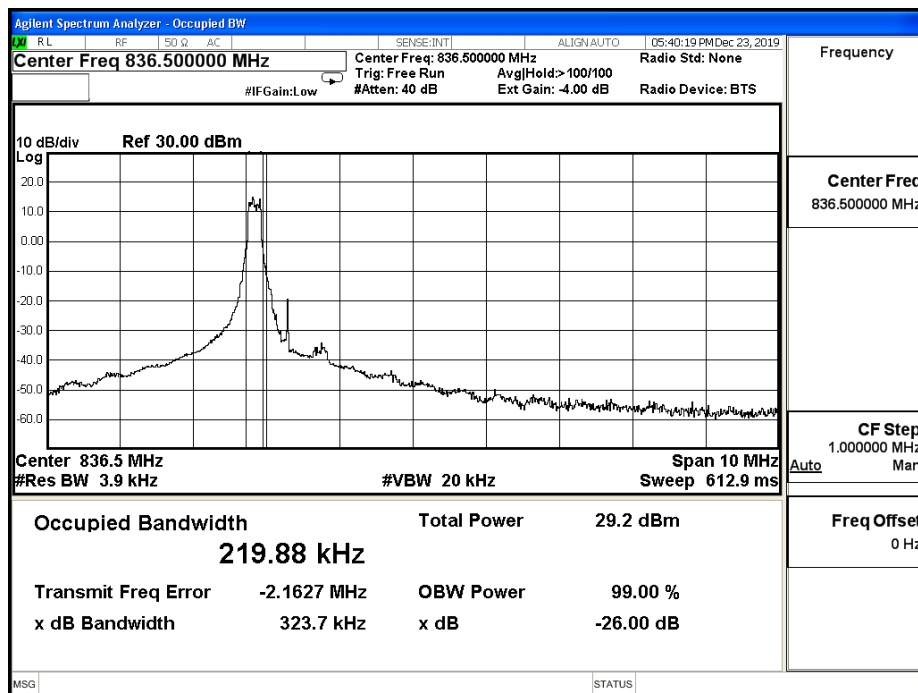
B26_CH26815_5M_16-QAM_1RB0 (Part 22)



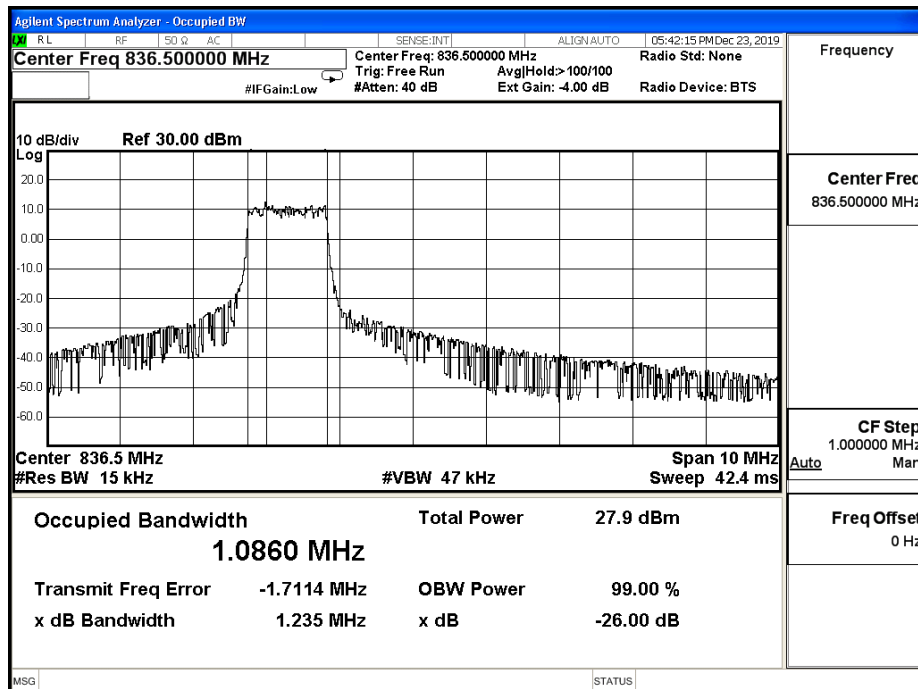
B26_CH26815_5M_16-QAM_5RB0 (Part 22)



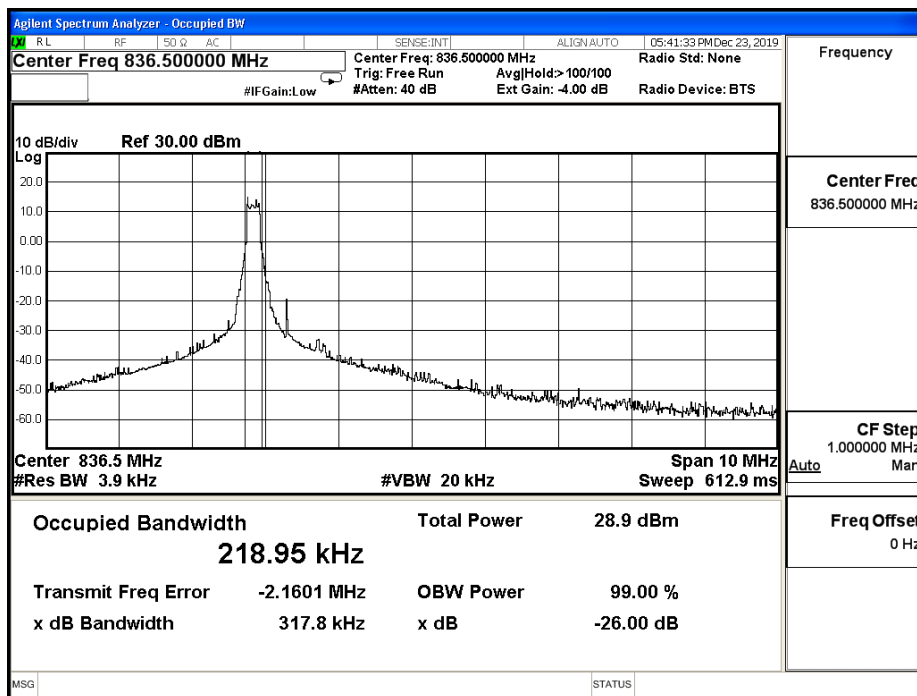
B26_CH26915_5M_QPSK_1RB0 (Part 22)



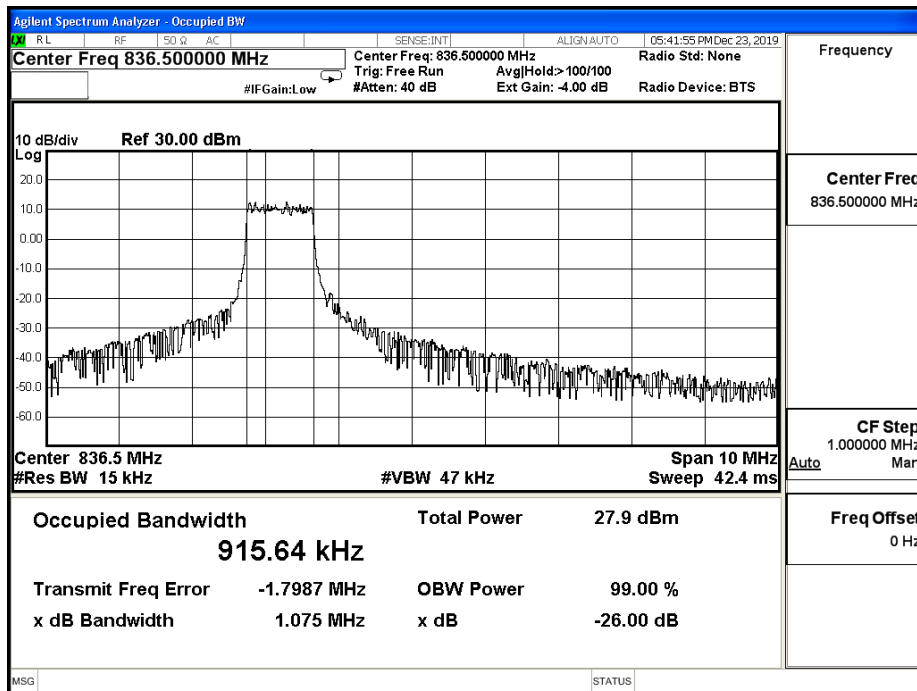
B26_CH26915_5M_QPSK_6RB0 (Part 22)



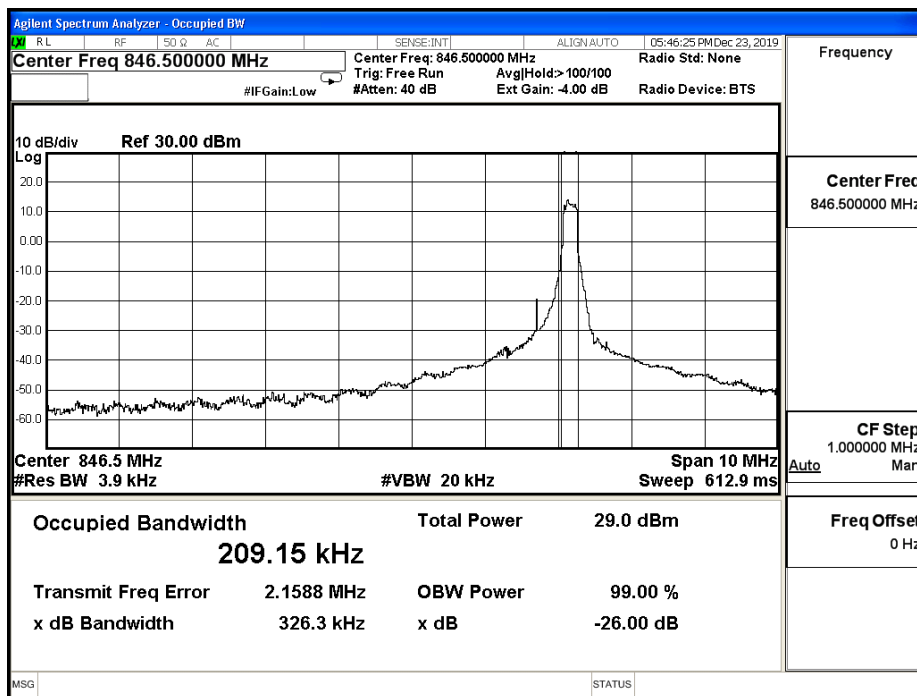
B26_CH26915_5M_16-QAM_1RB0 (Part 22)



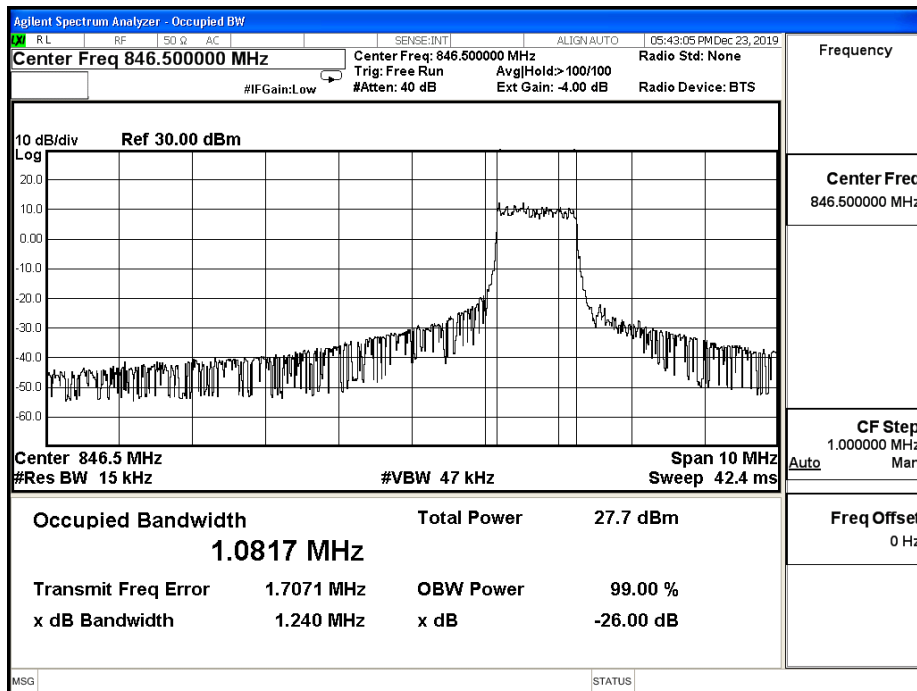
B26_CH26915_5M_16-QAM_5RB0 (Part 22)



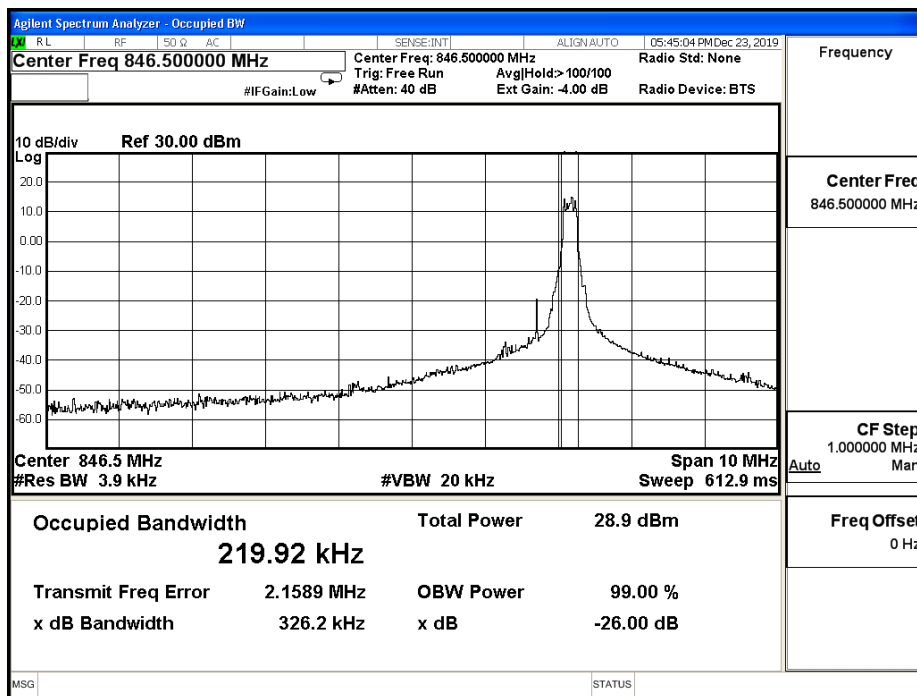
B26_CH27015_5M_QPSK_1RB5 (Part 22)



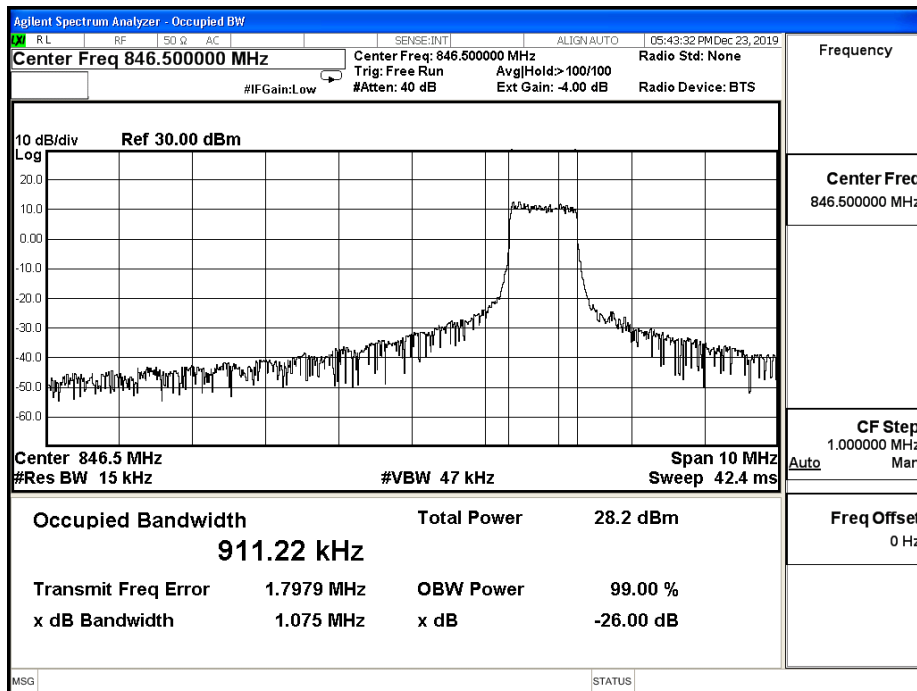
B26_CH27015_5M_QPSK_6RB0 (Part 22)



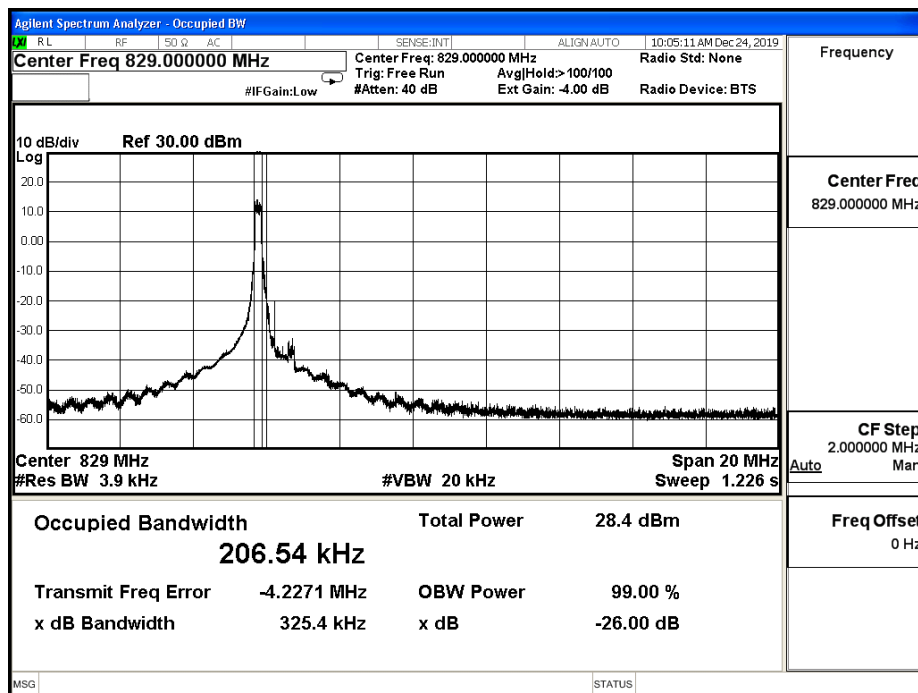
B26_CH27015_5M_16-QAM_1RB5 (Part 22)



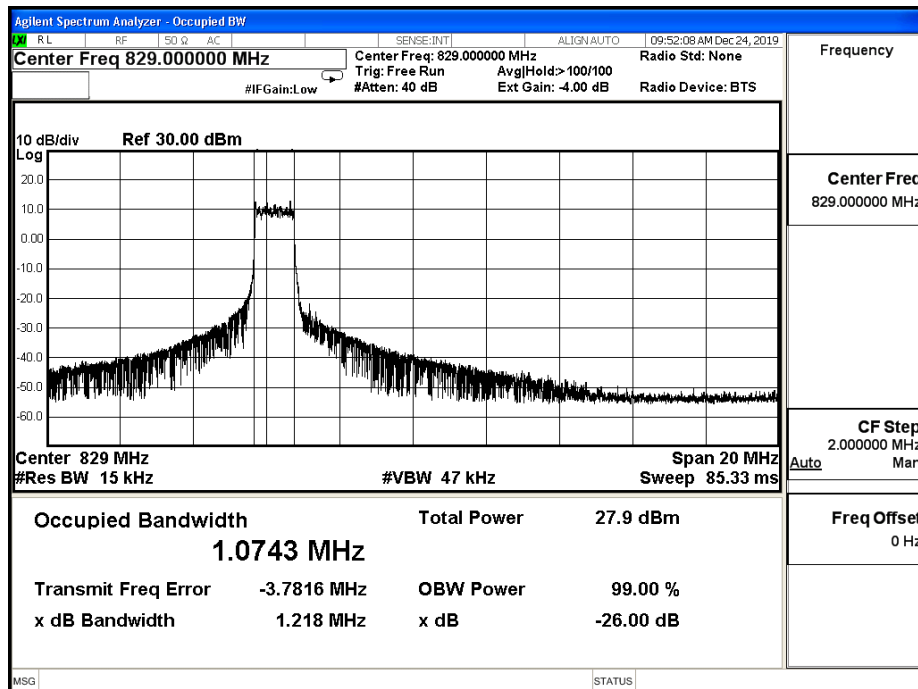
B26_CH27015_5M_16-QAM_5RB1 (Part 22)



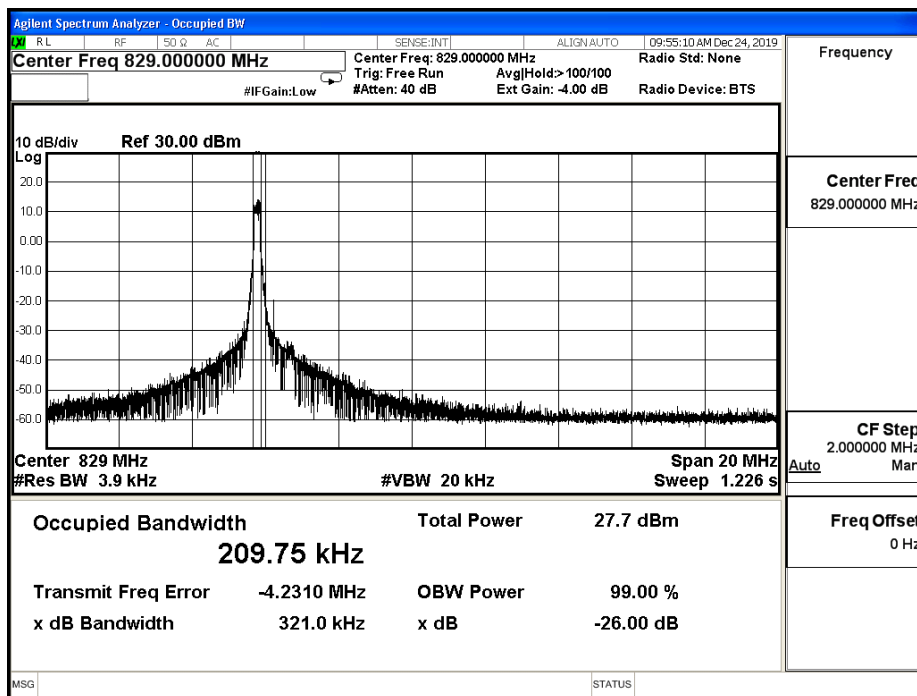
B26_CH26840_10M_QPSK_1RB0 (Part 22)



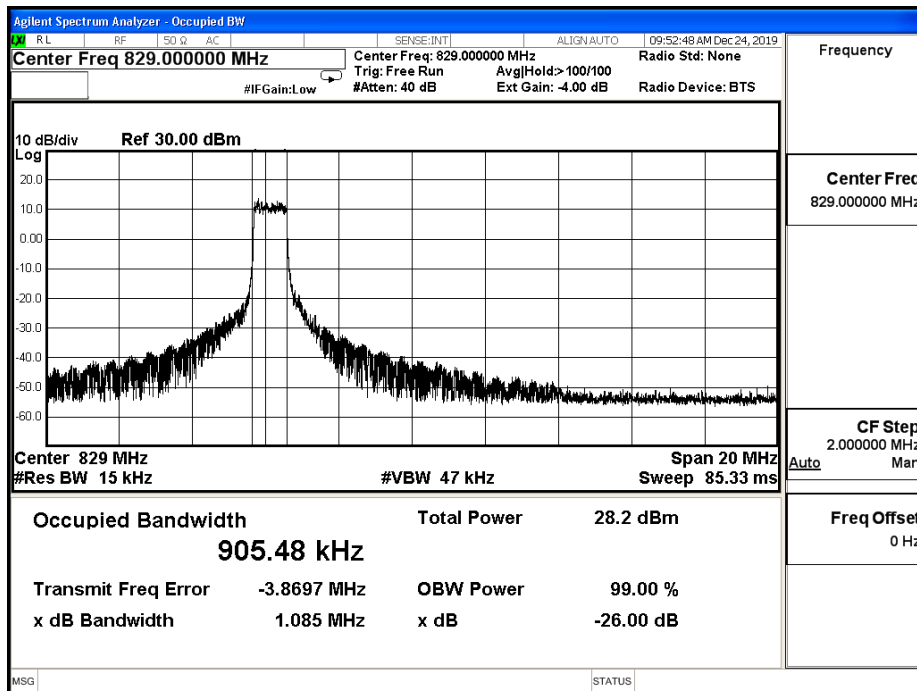
B26_CH26840_10M_QPSK_6RB0 (Part 22)



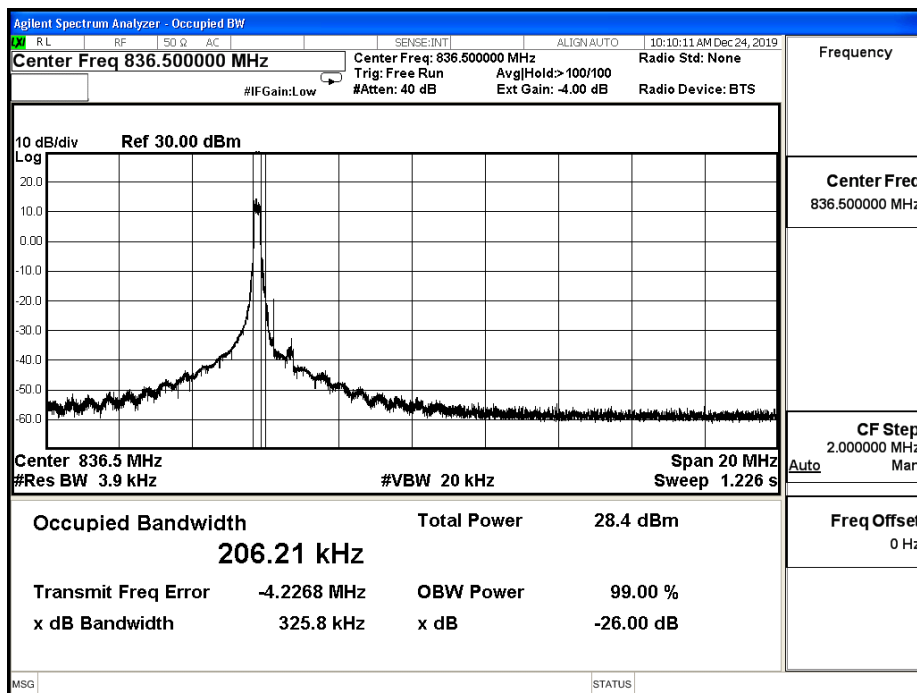
B26_CH26840_10M_16-QAM_1RB0 (Part 22)



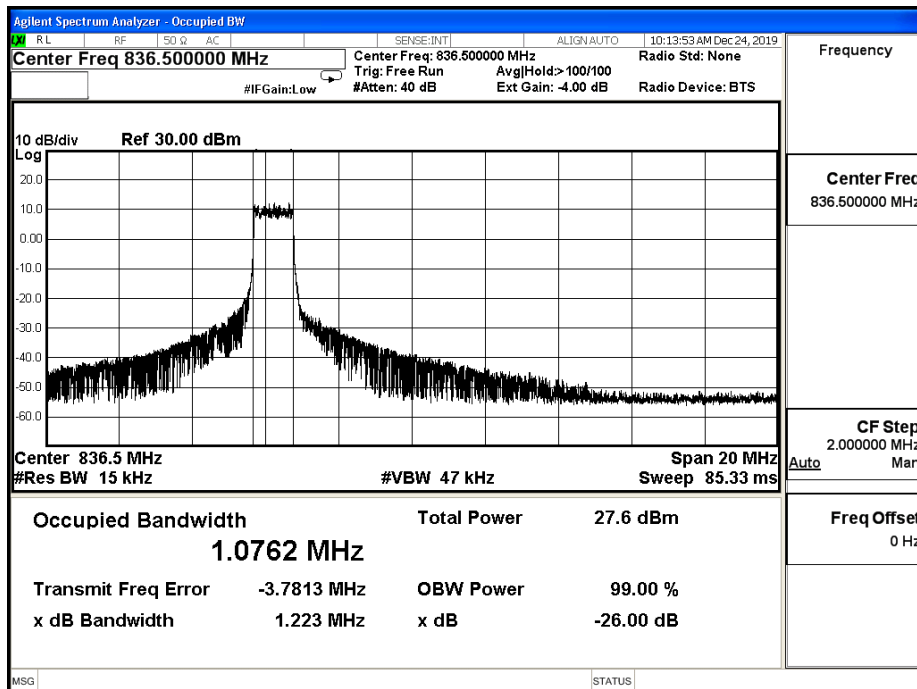
B26_CH26840_10M_16-QAM_5RB0 (Part 22)



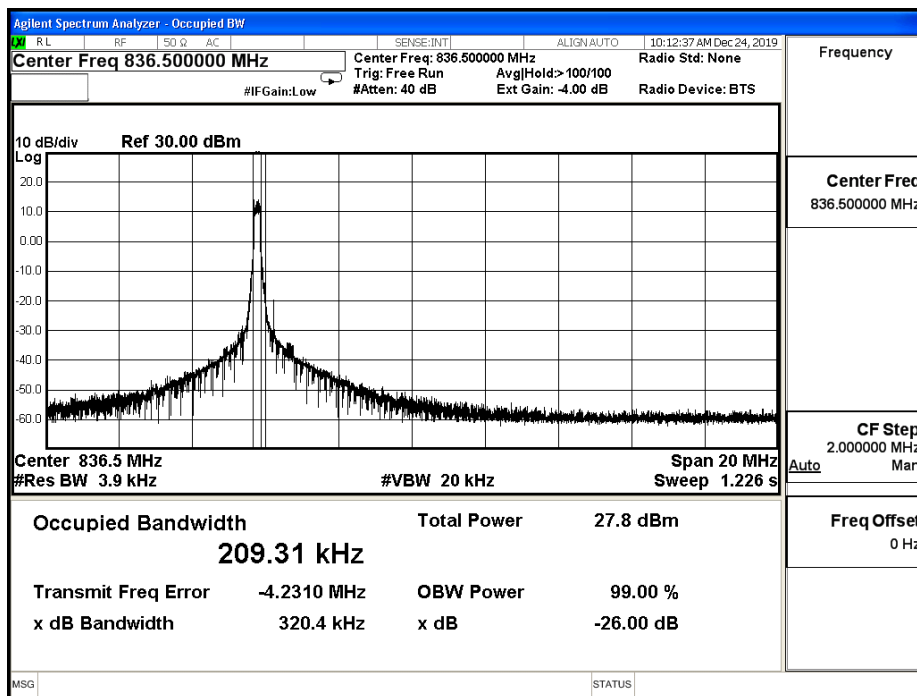
B26_CH26915_10M_QPSK_1RB0 (Part 22)



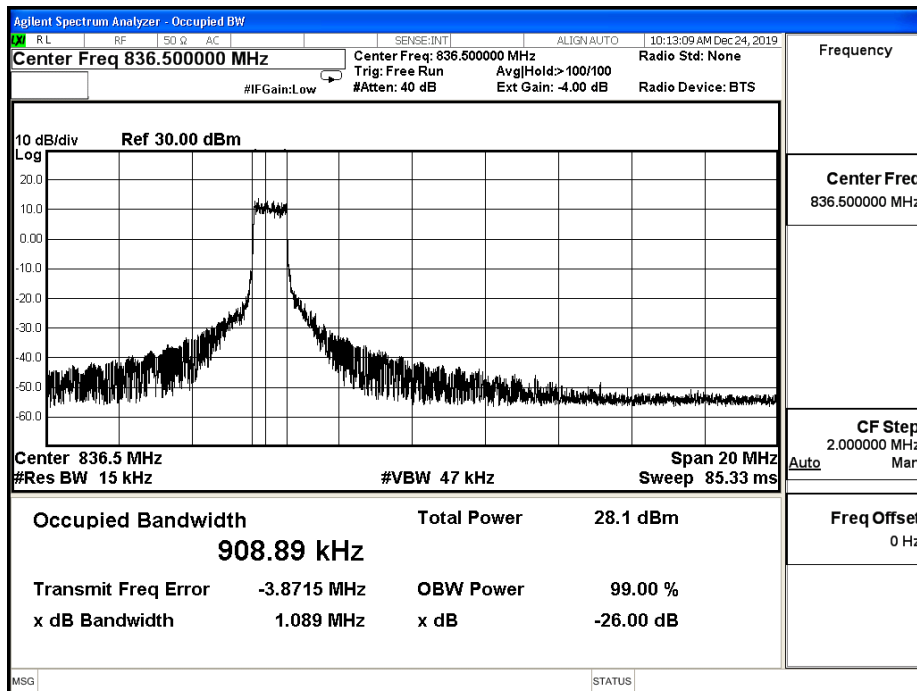
B26_CH26915_10M_QPSK_6RB0 (Part 22)



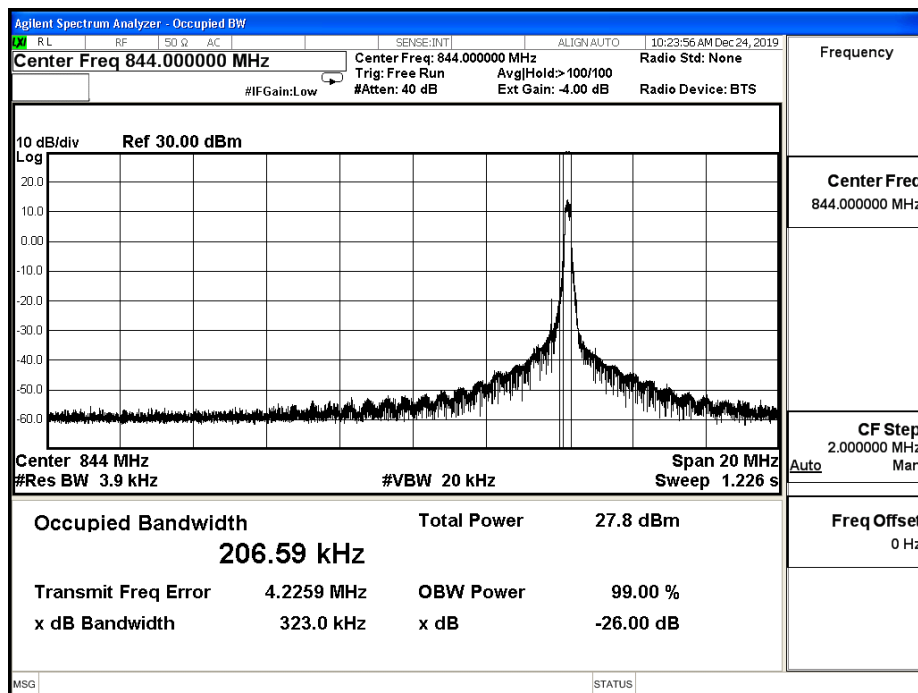
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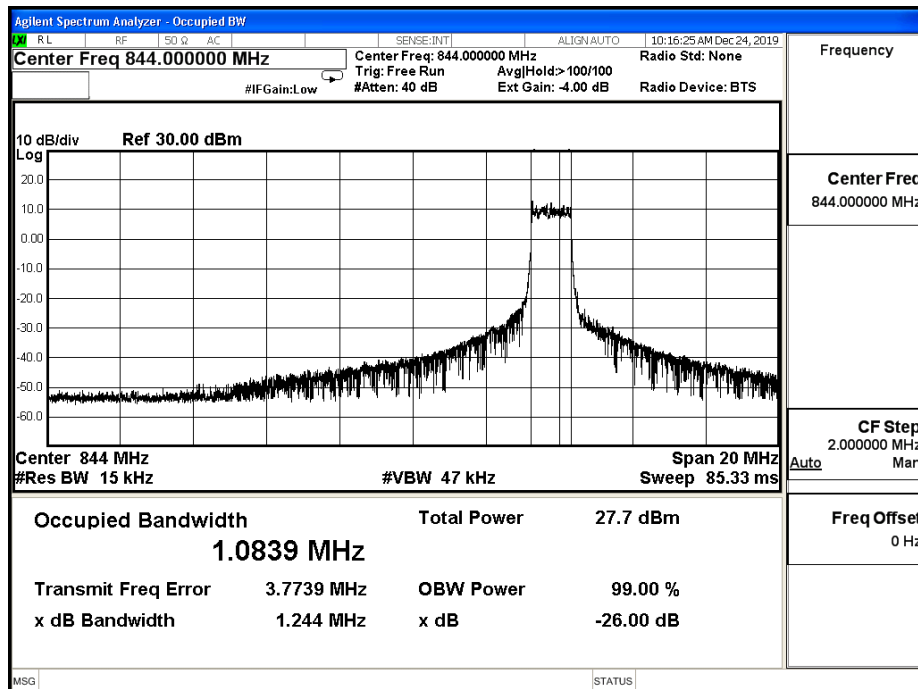
B26_CH26915_10M_16-QAM_5RB0 (Part 22)



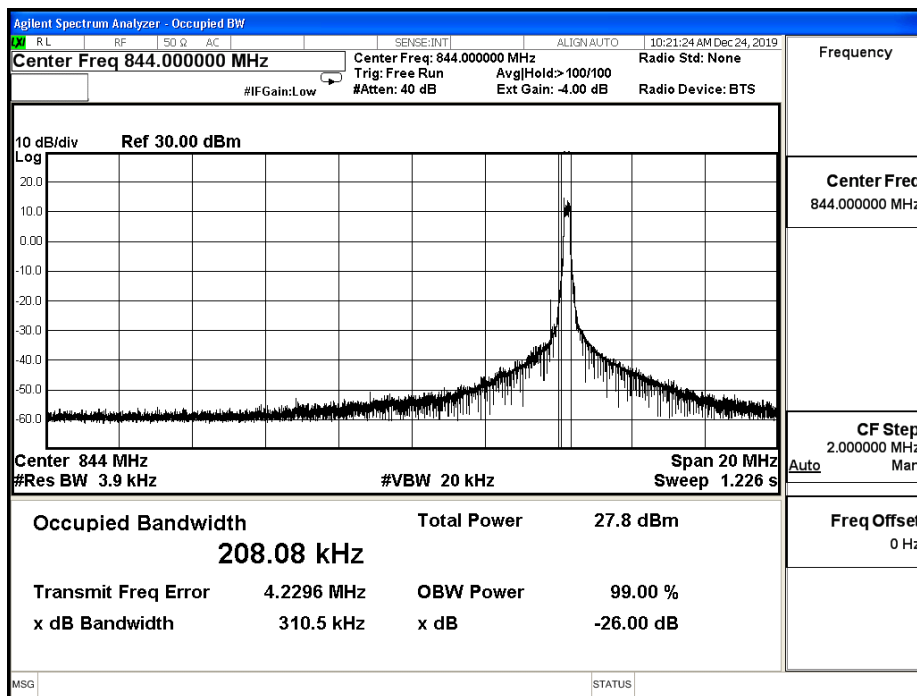
B26_CH26990_10M_QPSK_1RB5 (Part 22)



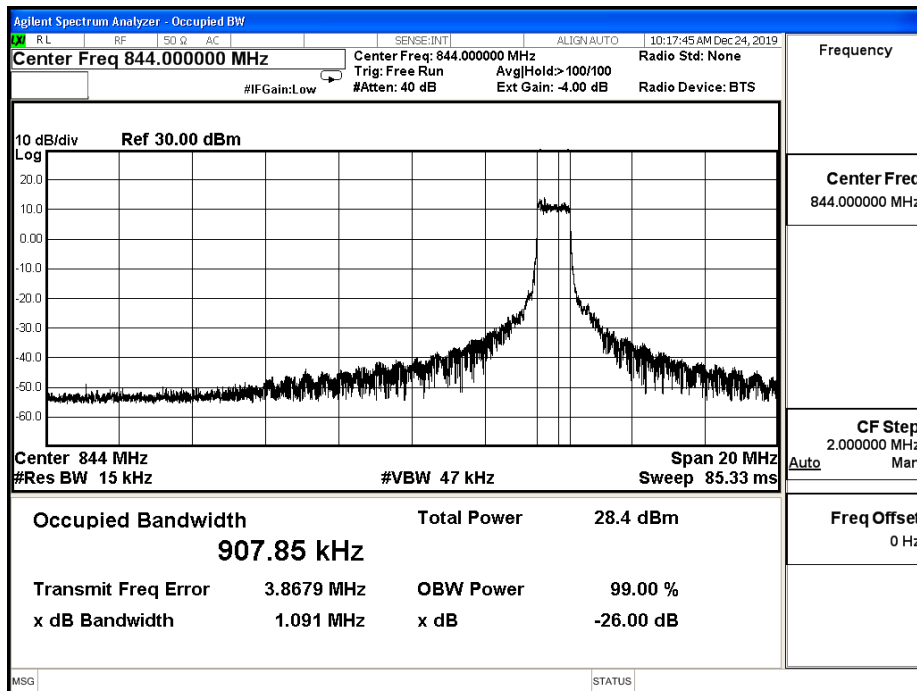
B26_CH26990_10M_QPSK_6RB0 (Part 22)



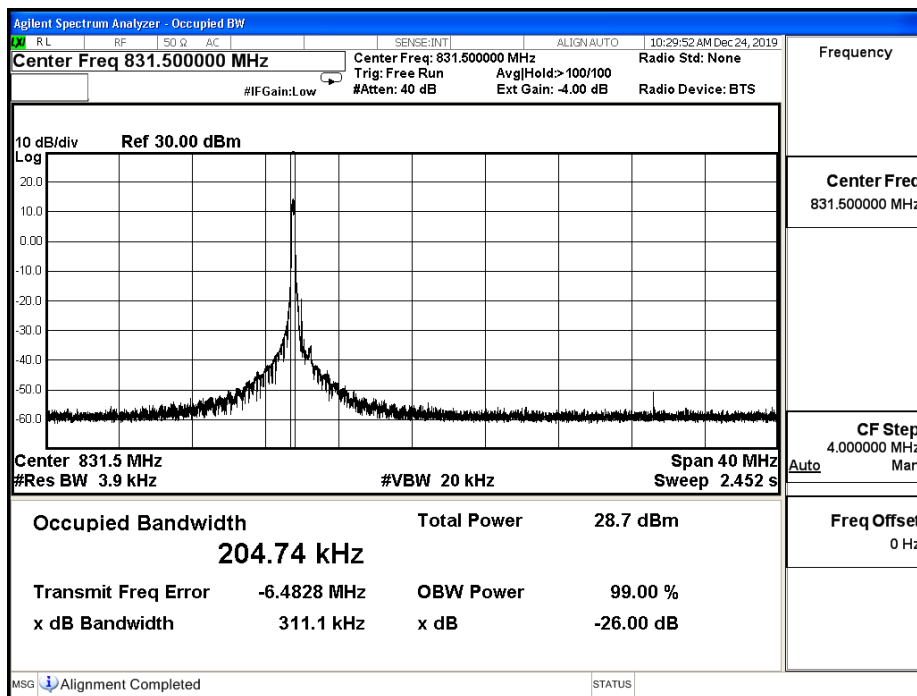
B26_CH26990_10M_16-QAM_1RB5 (Part 22)



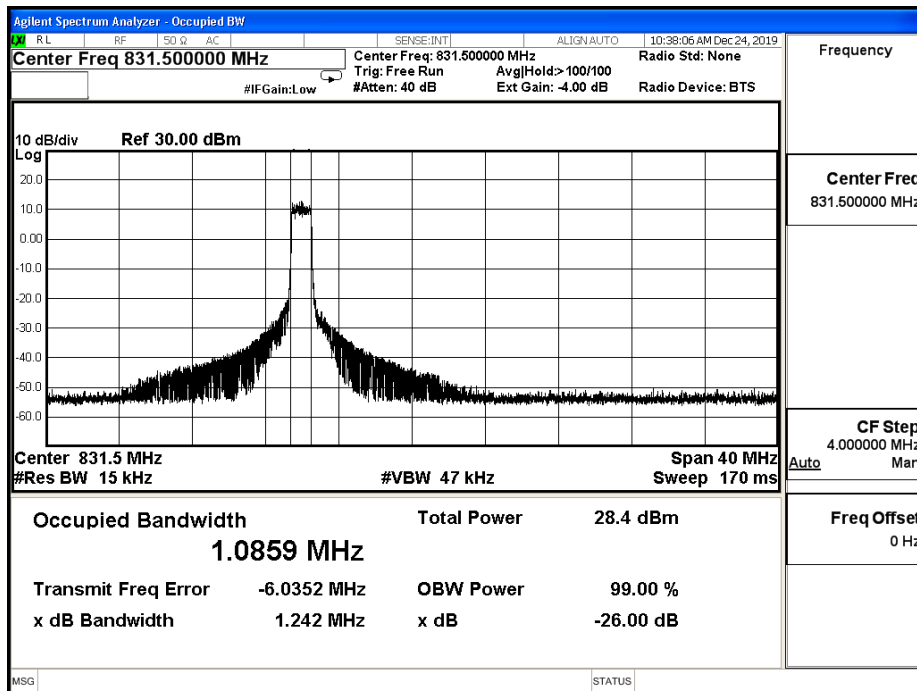
B26_CH26990_10M_16-QAM_5RB1 (Part 22)



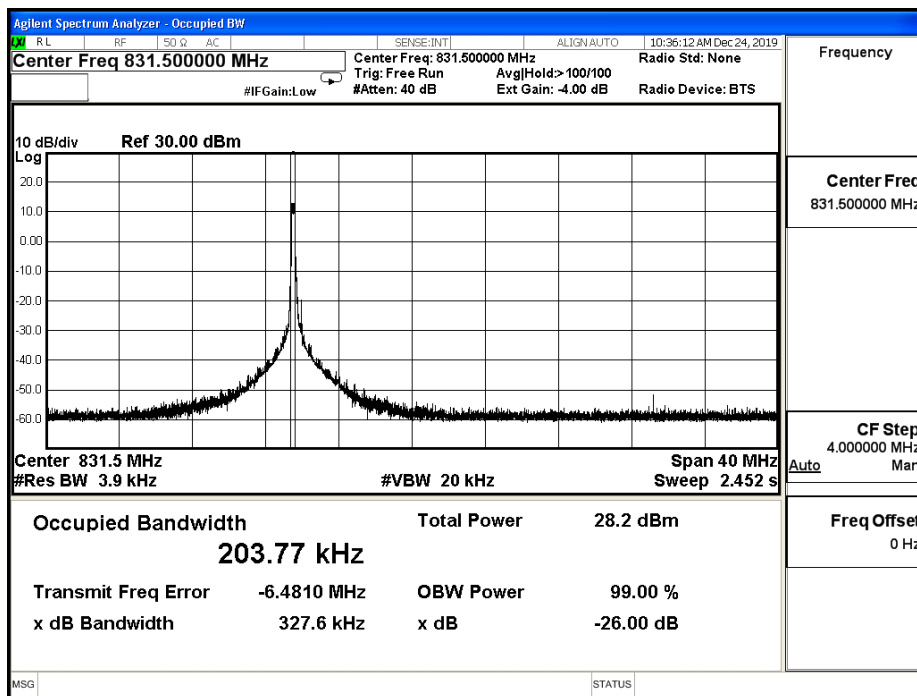
B26_CH26865_15M_QPSK_1RB0 (Part 22)



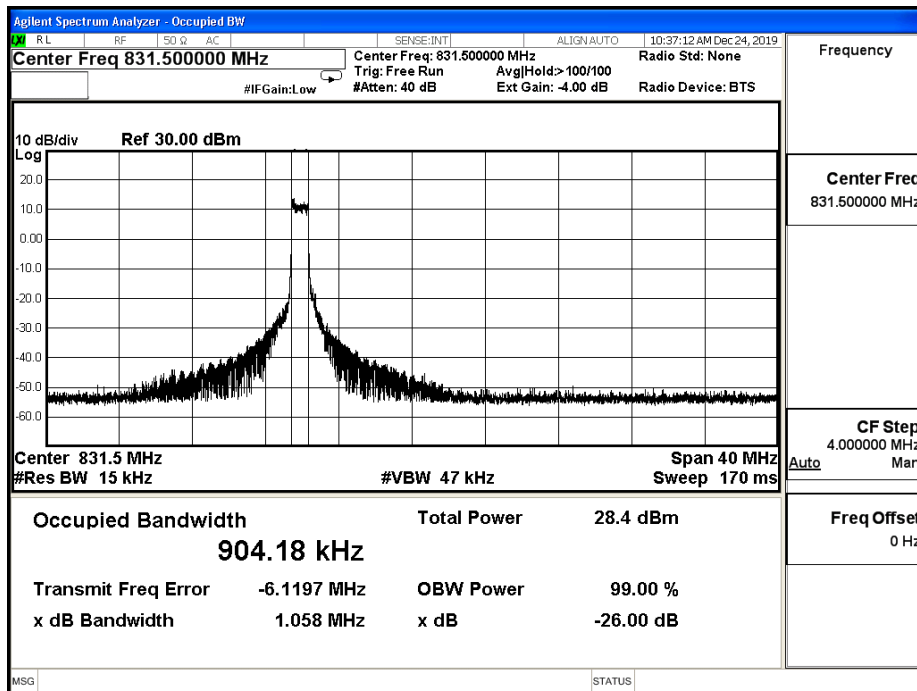
B26_CH26865_15M_QPSK_6RB0 (Part 22)



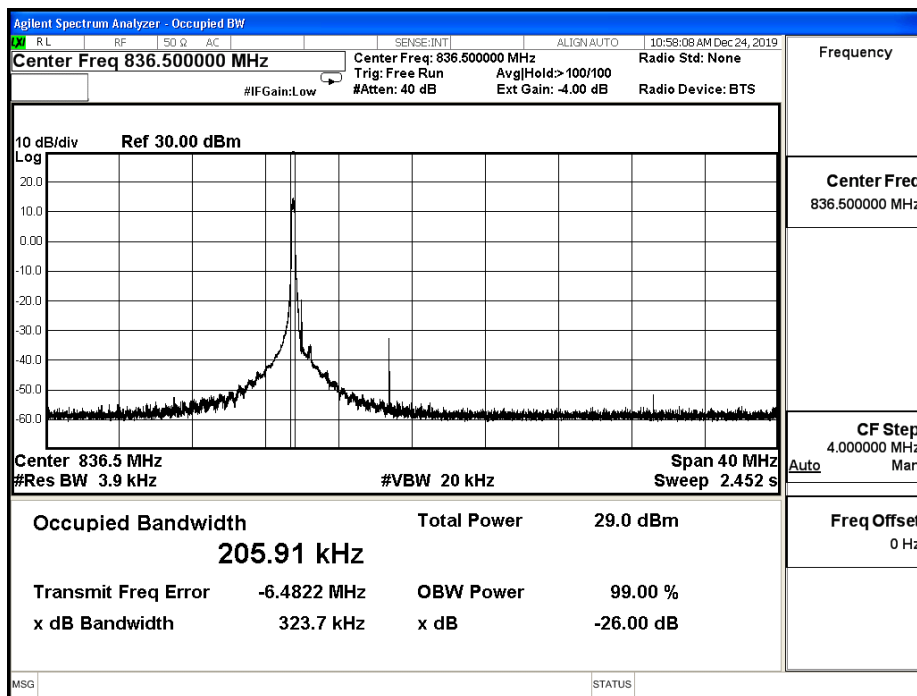
B26_CH26865_15M_16-QAM_1RB0 (Part 22)



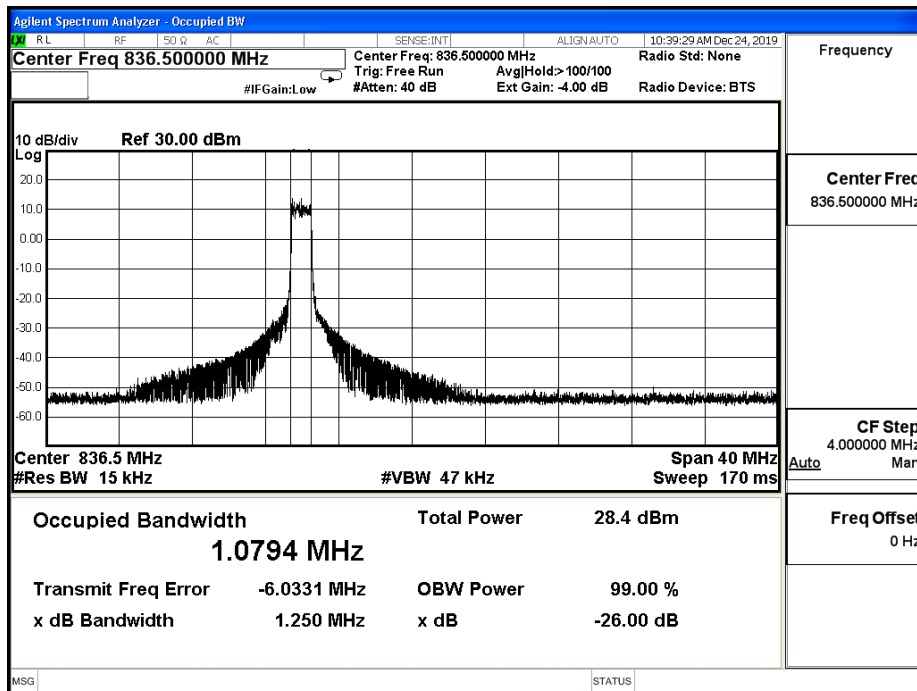
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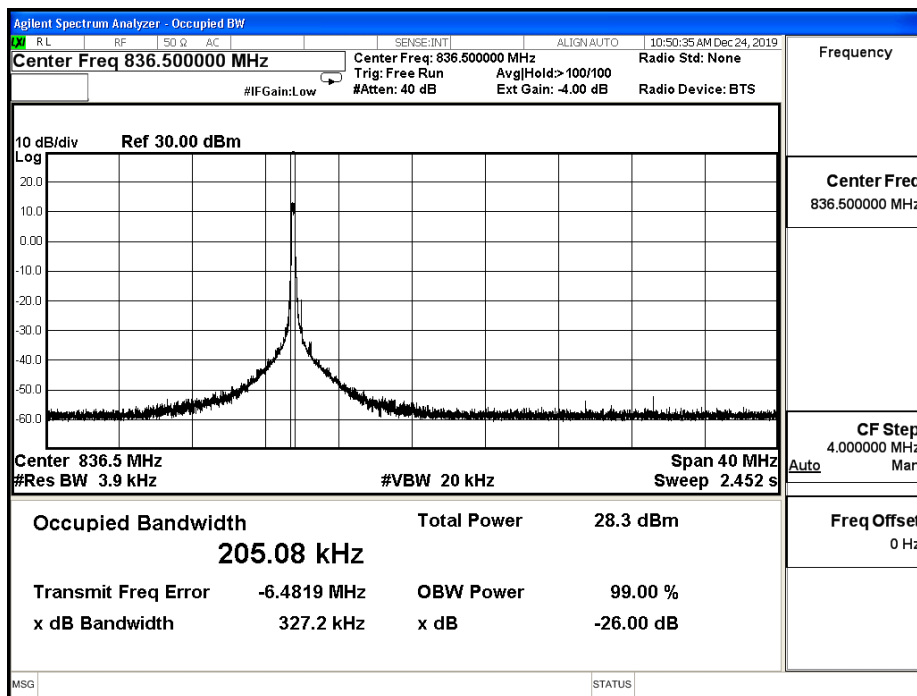
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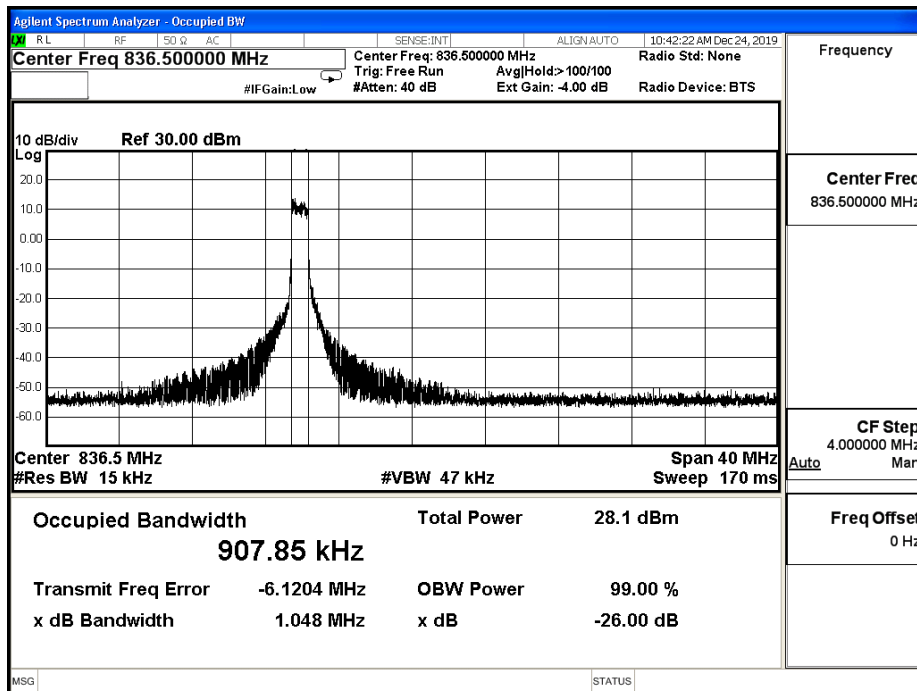
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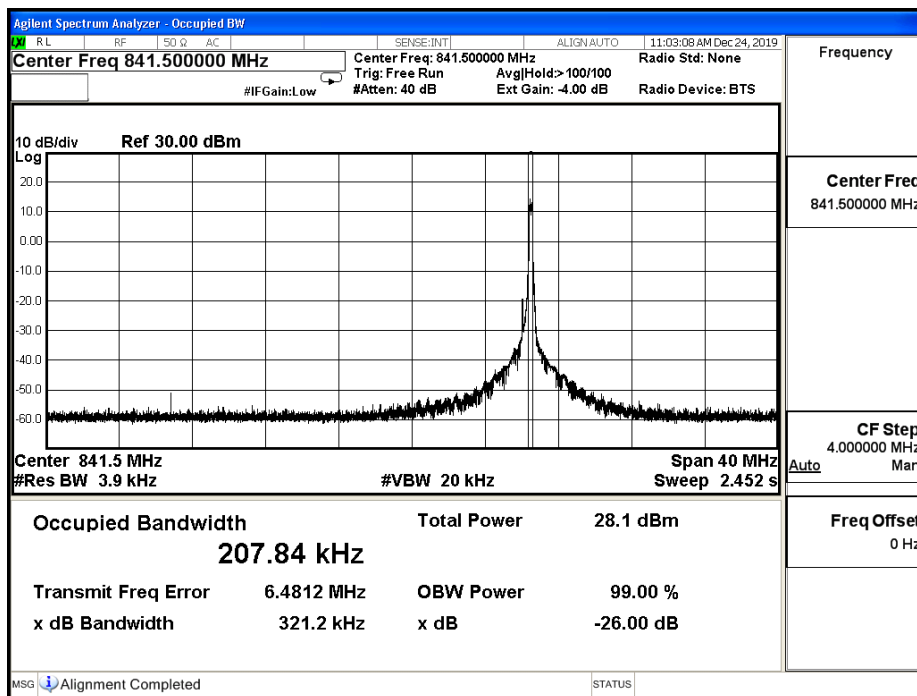
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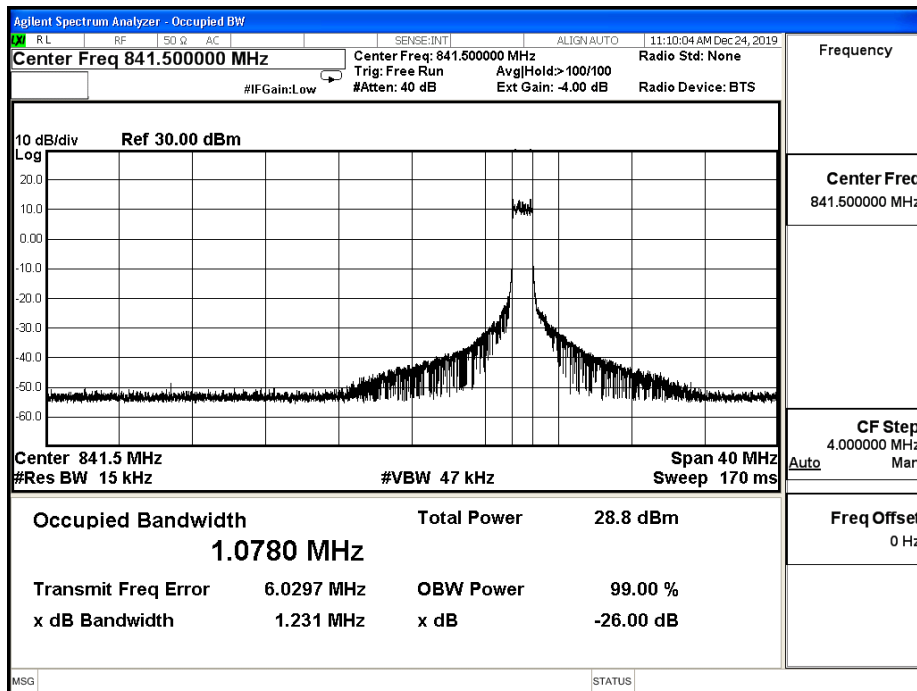
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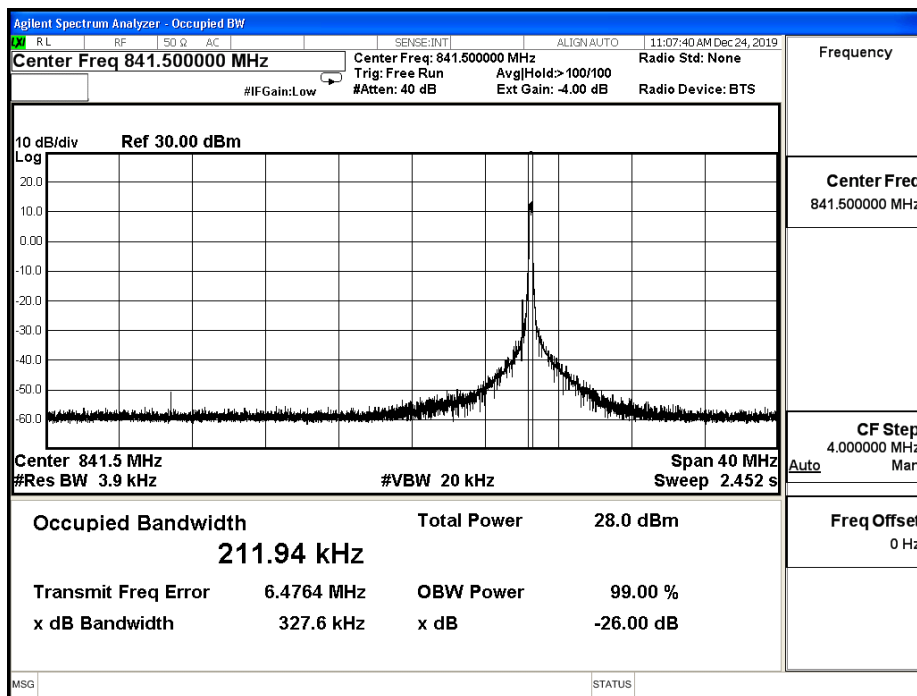
B26_CH26965_15M_QPSK_1RB5 (Part 22)



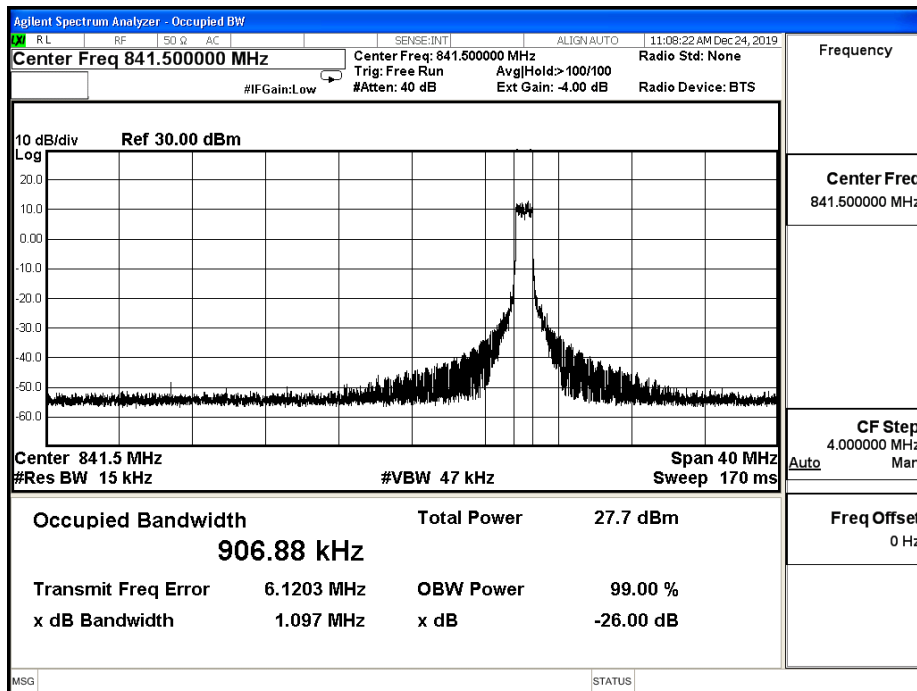
B26_CH26965_15M_QPSK_6RB0 (Part 22)



B26_CH26965_15M_16-QAM_1RB5 (Part 22)



B26_CH26965_15M_16-QAM_5RB1 (Part 22)

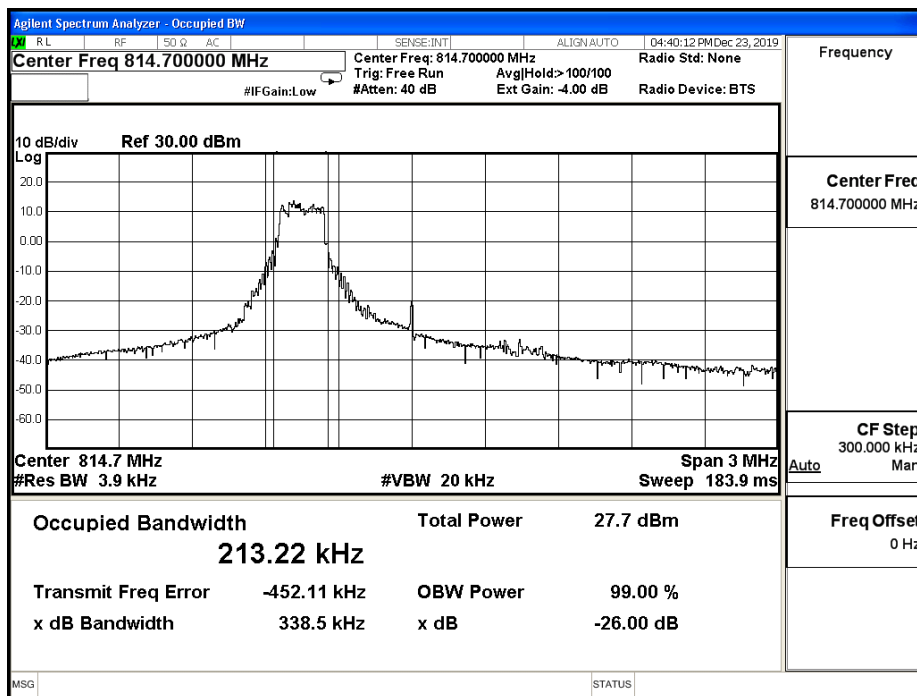


Product	M2M DATA MODULE		
Test Item	Occupied Bandwidth (Part 90)		
Test Mode	Mode 6: LTE Band 26		
Date of Test	2019/12/20	Test Site	SR12-H
Temperature (°C)	22.0°C	Humidity (%RH)	59%RH

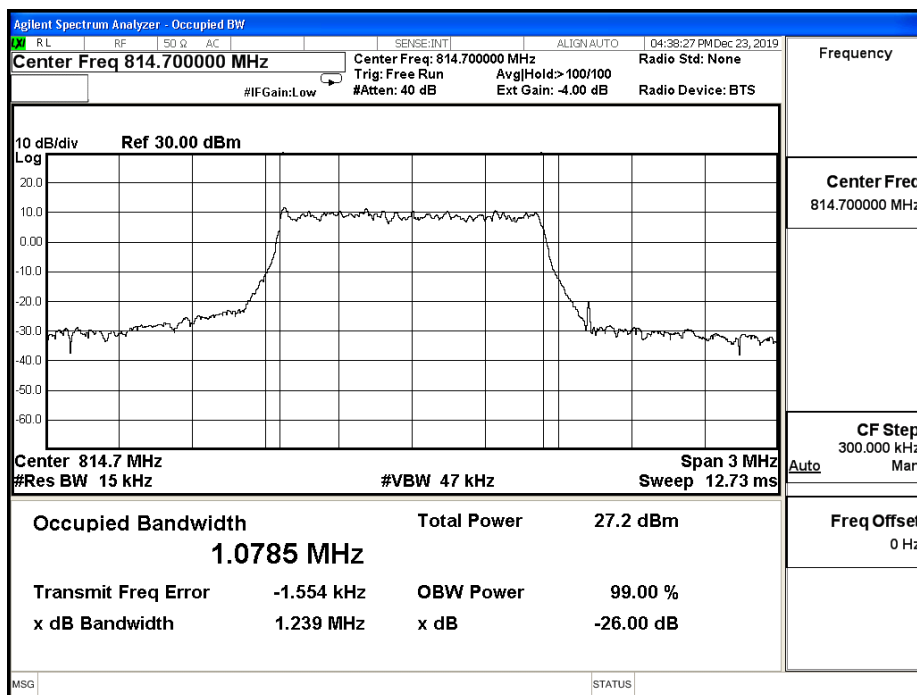
LTE Band 26_1RB (Part 90)					
Band width (MHz)	Modulation	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
			26dB BW	99% BW	
1.4M	QPSK	814.7	0.338	0.213	N/A
		819.0	0.339	0.213	N/A
		823.3	0.319	0.203	N/A
	16-QAM	814.7	0.305	0.210	N/A
		819.0	0.307	0.208	N/A
		823.3	0.319	0.209	N/A
3M	QPSK	815.5	0.341	0.221	N/A
		819.0	0.348	0.218	N/A
		822.5	0.332	0.210	N/A
	16-QAM	815.5	0.315	0.217	N/A
		819.0	0.309	0.213	N/A
		822.5	0.330	0.212	N/A
5M	QPSK	816.5	0.333	0.215	N/A
		819.0	0.326	0.219	N/A
		821.5	0.321	0.207	N/A
	16-QAM	816.5	0.316	0.218	N/A
		819.0	0.320	0.219	N/A
		821.5	0.325	0.216	N/A
10M	QPSK	819	0.324	0.205	N/A
		low	0.321	0.205	N/A
	16-QAM	819	0.320	0.209	N/A
		high	0.309	0.207	N/A

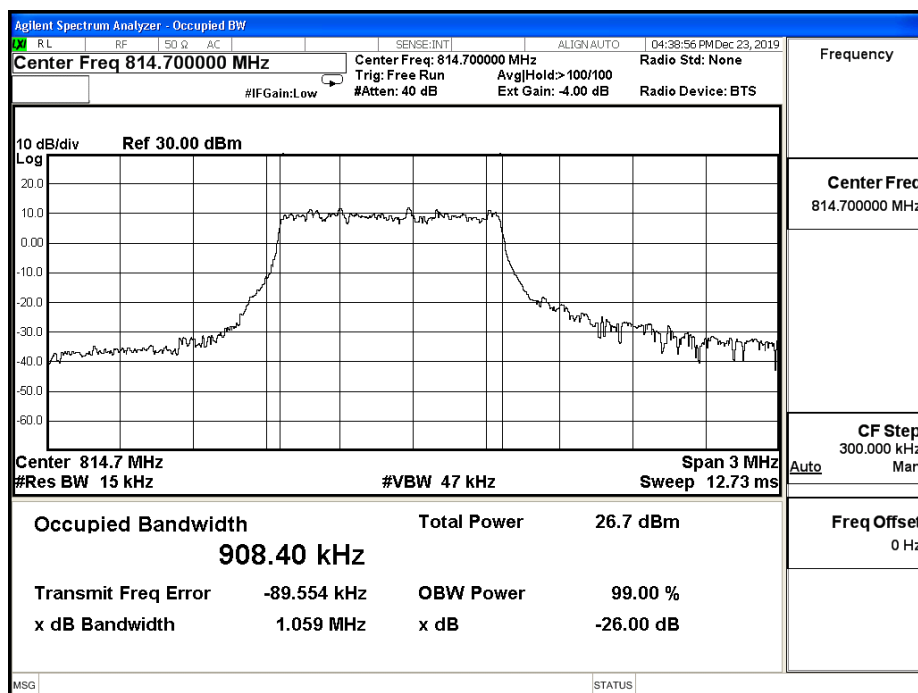
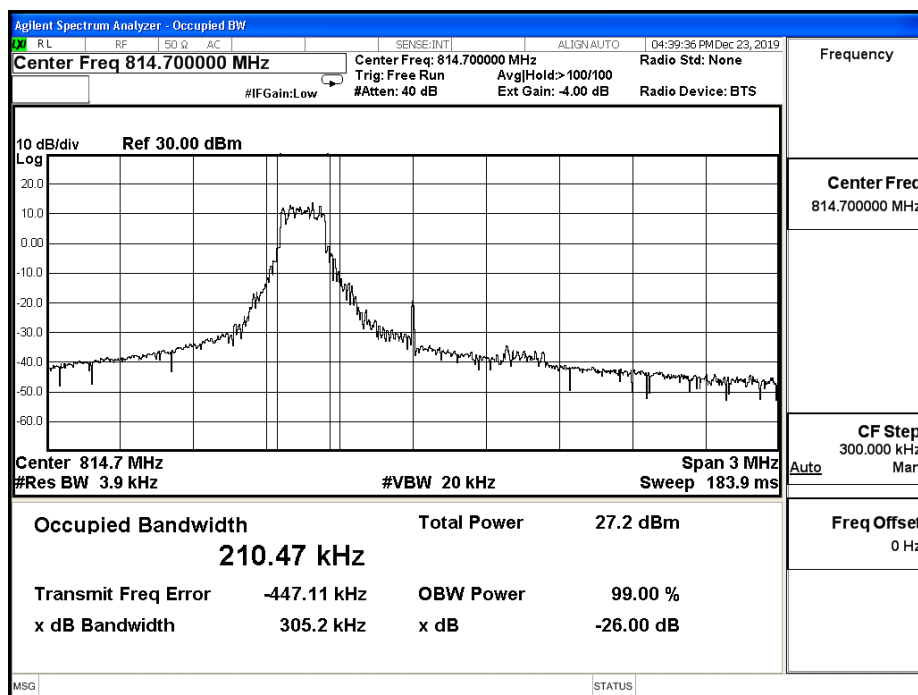
LTE Band 26_Part 90_Full RB (Part 90)					
Band width (MHz)	Modulation	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
			26dB BW	99% BW	
1.4M	QPSK	814.7	1.239	1.078	N/A
		819.0	1.236	1.078	N/A
		823.3	1.234	1.070	N/A
	16-QAM	814.7	1.059	0.908	N/A
		819.0	1.060	0.907	N/A
		823.3	1.081	0.909	N/A
3M	QPSK	815.5	1.236	1.082	N/A
		819.0	1.241	1.083	N/A
		822.5	1.241	1.082	N/A
	16-QAM	815.5	1.065	0.915	N/A
		819.0	1.077	0.913	N/A
		822.5	1.088	0.913	N/A
5M	QPSK	816.5	1.219	1.088	N/A
		819.0	1.247	1.088	N/A
		821.5	1.234	1.083	N/A
	16-QAM	816.5	1.081	0.913	N/A
		819.0	1.085	0.912	N/A
		821.5	1.077	0.908	N/A
10M	QPSK	819 low	1.218	1.075	N/A
			1.238	1.080	N/A
	16-QAM	819 high	1.092	0.906	N/A
			1.083	0.906	N/A

B26_CH26697_1.4M_QPSK_1RB0 (Part 90)

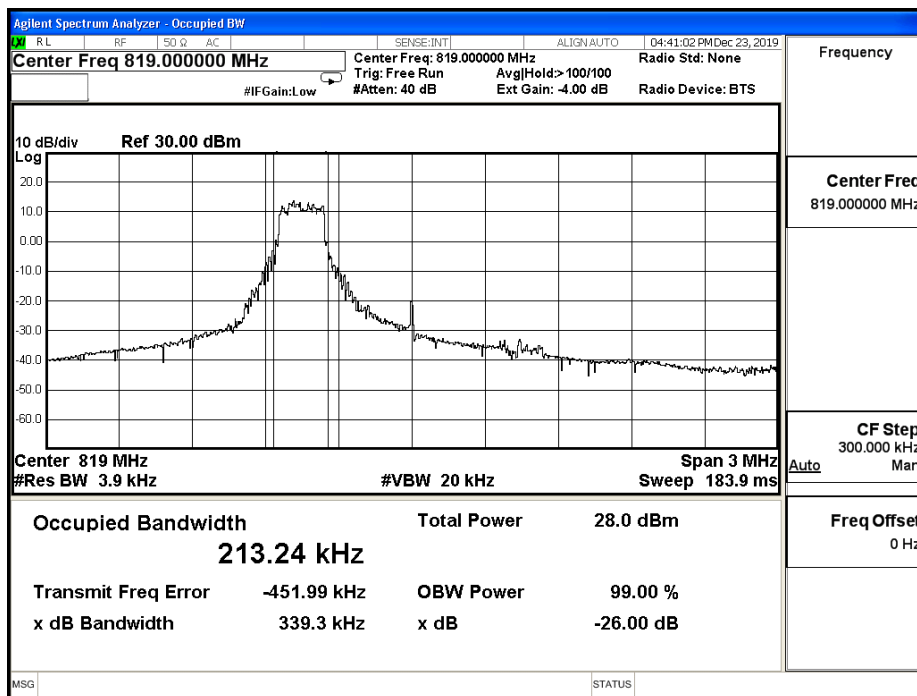


B26_CH26697_1.4M_QPSK_6RB0 (Part 90)

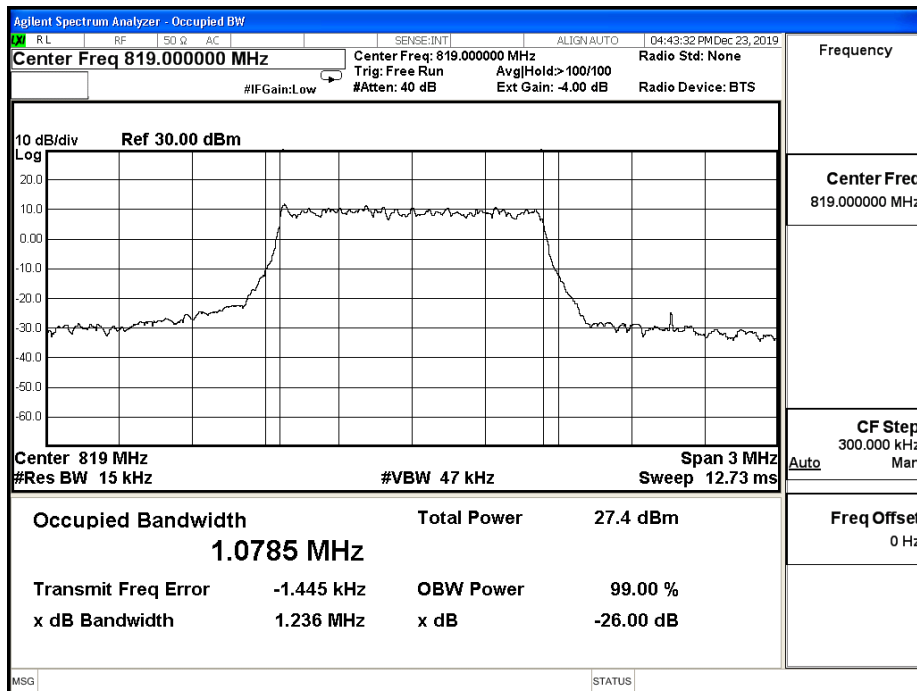




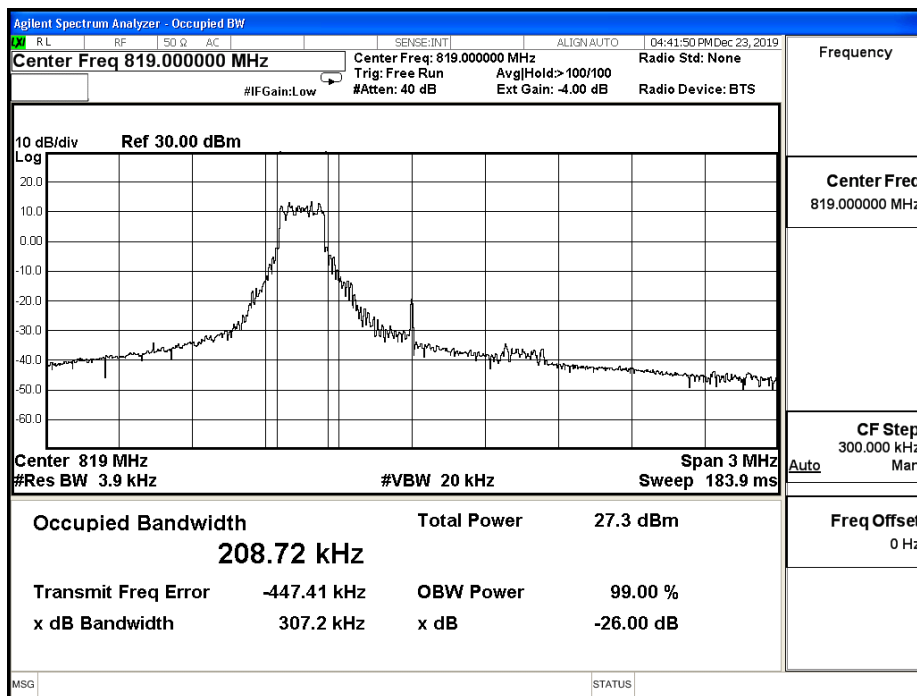
B26_CH26740_1.4M_QPSK_1RB0 (Part 90)



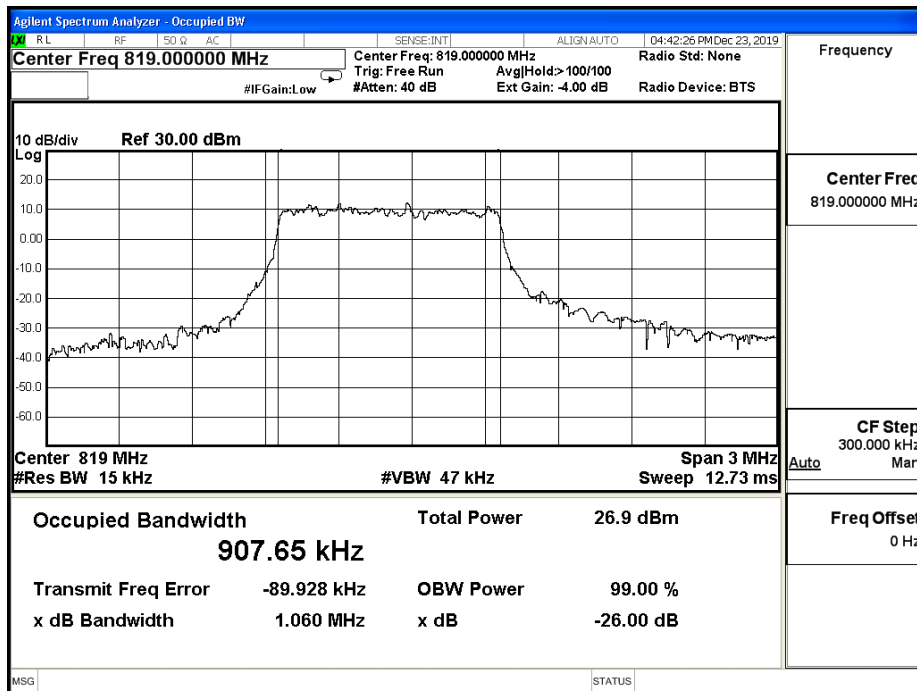
B26_CH26740_1.4M_QPSK_6RB0 (Part 90)



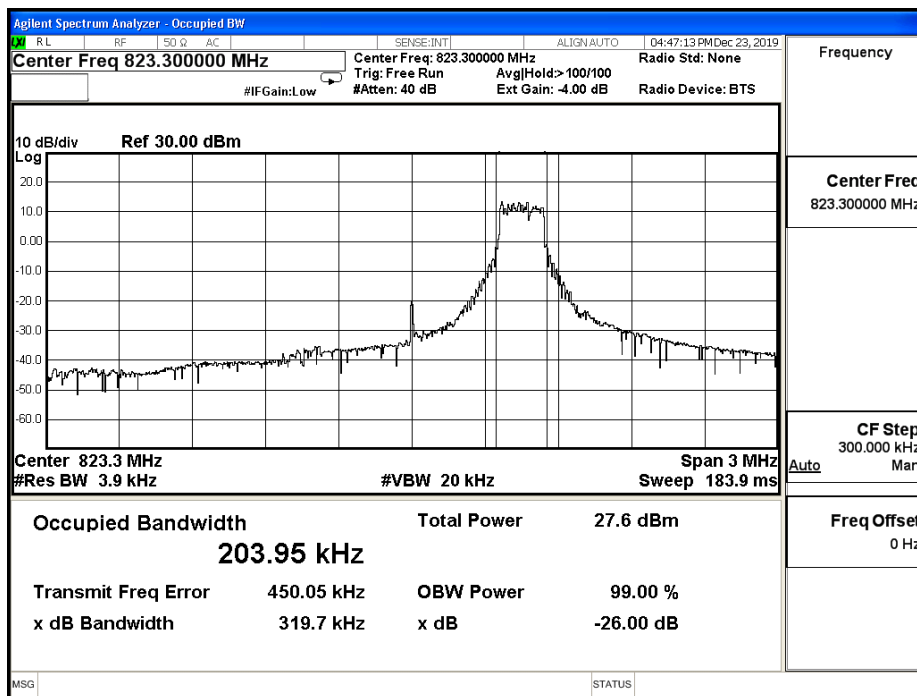
B26_CH26740_1.4M_16-QAM_1RB0 (Part 90)



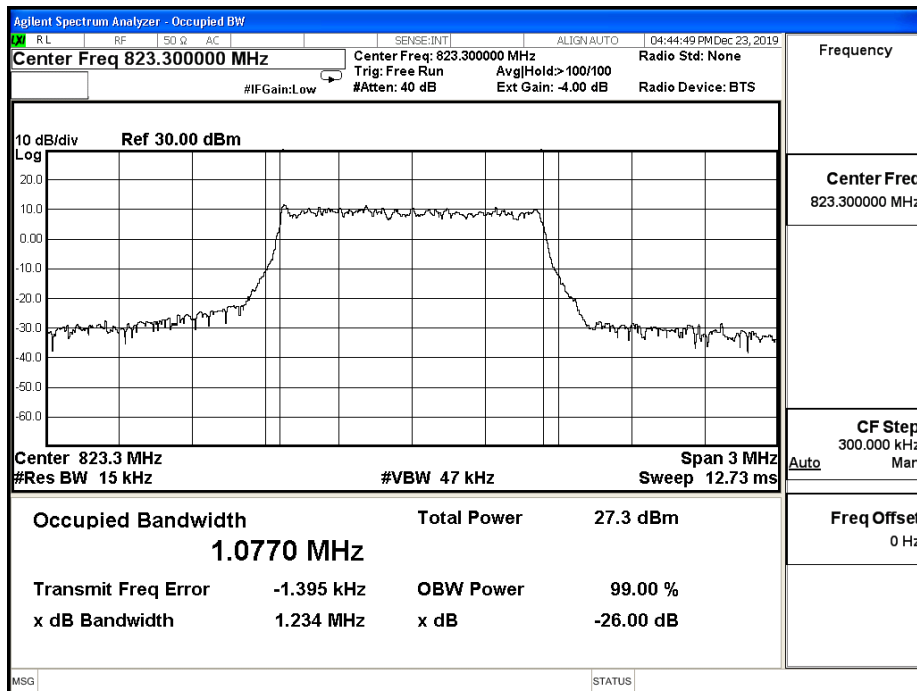
B26_CH26740_1.4M_16-QAM_5RB0 (Part 90)



B26_CH26783_1.4M_QPSK_1RB5 (Part 90)



B26_CH26783_1.4M_QPSK_6RB0 (Part 90)



Agilent Spectrum Analyzer - Occupied BW

RL RF 50 Q AC SENSE:INT ALIGN: AUTO 04:46:38 PM Dec 23, 2019

Center Freq 823.300000 MHz Radio Std: None
 Trig: Free Run Avg/Hold: > 100/100
 #IFGain: Low #Atten: 40 dB Ext Gain: -4.00 dB Radio Device: BTS

Frequency

10 dB/div Ref 30.00 dBm

Log

Center 823.3 MHz Span 3 MHz
 #Res BW 3.9 kHz #VBW 20 kHz Sweep 183.9 ms

CF Step 300.00 kHz Mar

Occupied Bandwidth		Total Power	
209.12 kHz		27.5 dBm	

Transmit Freq Error		OBW Power	
449.18 kHz		99.00 %	
x dB Bandwidth		x dB	
319.3 kHz		-26.00 dB	

Frequency Offset 0 Hz

MSG STATUS

Agilent Spectrum Analyzer - Occupied BW

Center Freq 823.300000 MHz

Center Freq: 823.300000 MHz
 Trig: Free Run
 #Atten: 40 dB

Avg/Hold: > 100/100
 Ext Gain: -4.00 dB

Radio Std: None
 Radio Device: BSTS

#IF Gain: Low

10 dB/div Ref 30.00 dBm

Center 823.3 MHz
 #Res BW 15 kHz

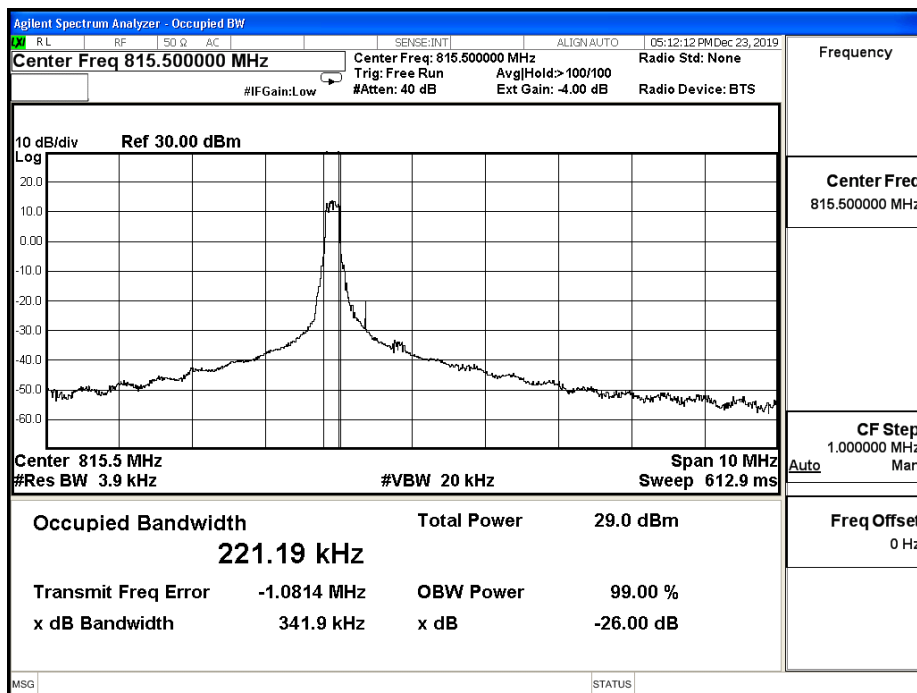
Span 3 MHz
 Sweep 12.73 ms

#VBW 47 kHz

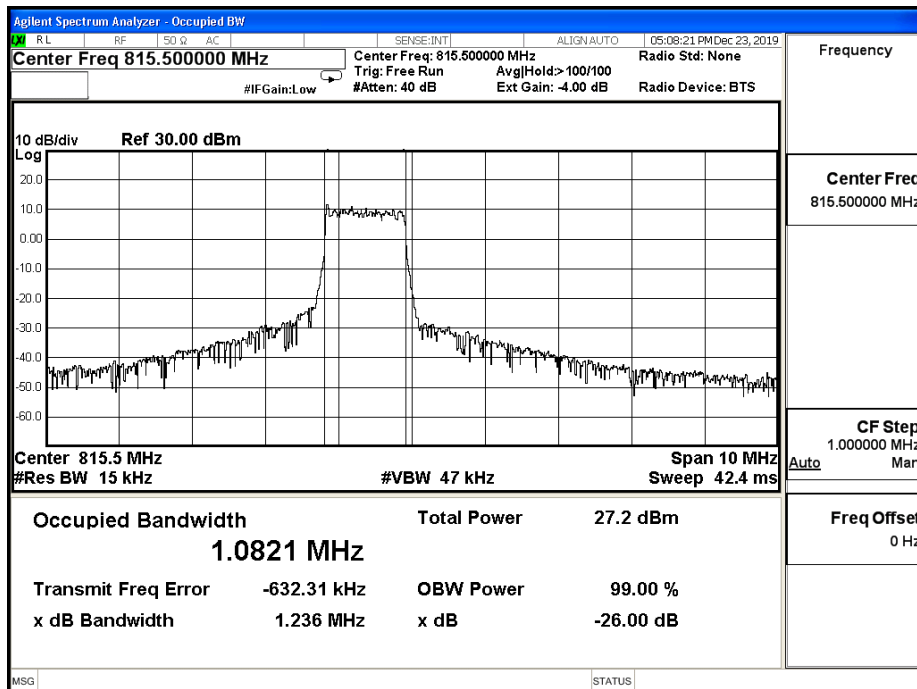
Occupied Bandwidth		Total Power	
909.54 kHz		27.0 dBm	

Transmit Freq Error		OBW Power	
89.776 kHz		99.00 %	
x dB Bandwidth		-26.00 dB	

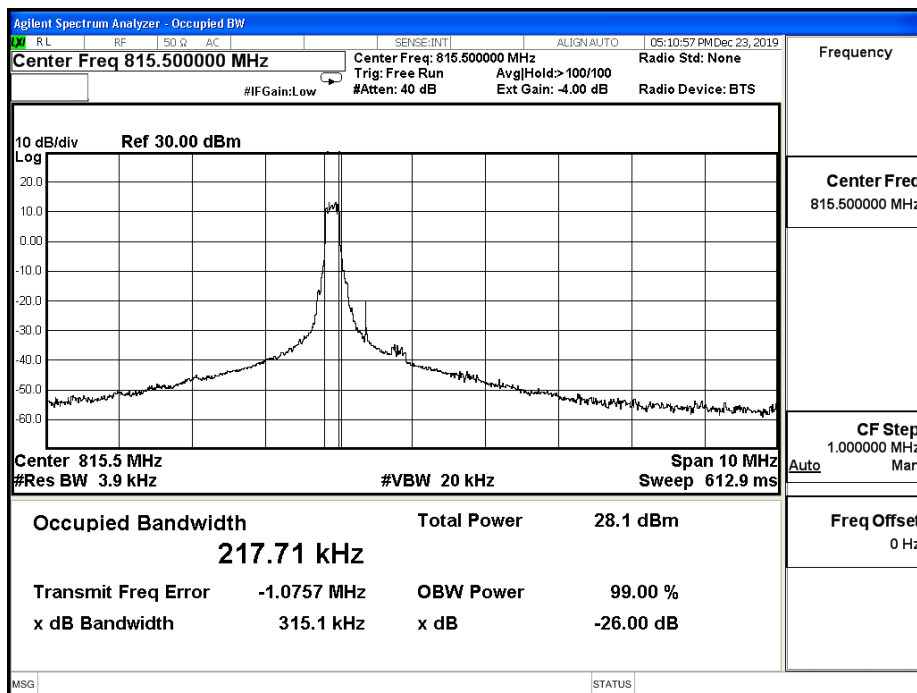
B26_CH26705_3M_QPSK_1RB0 (Part 90)



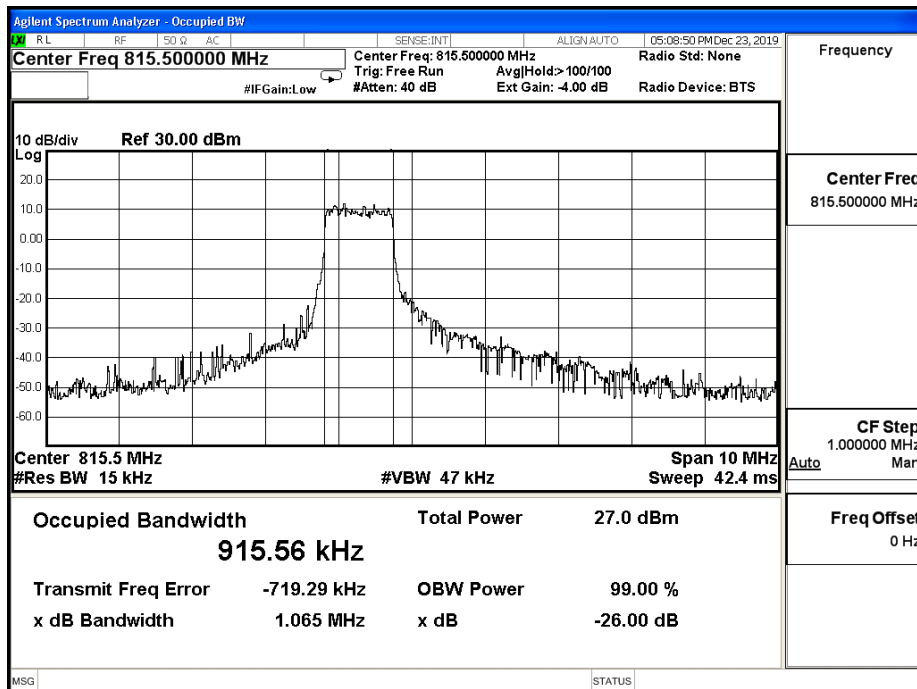
B26_CH26705_3M_QPSK_6RB0 (Part 90)



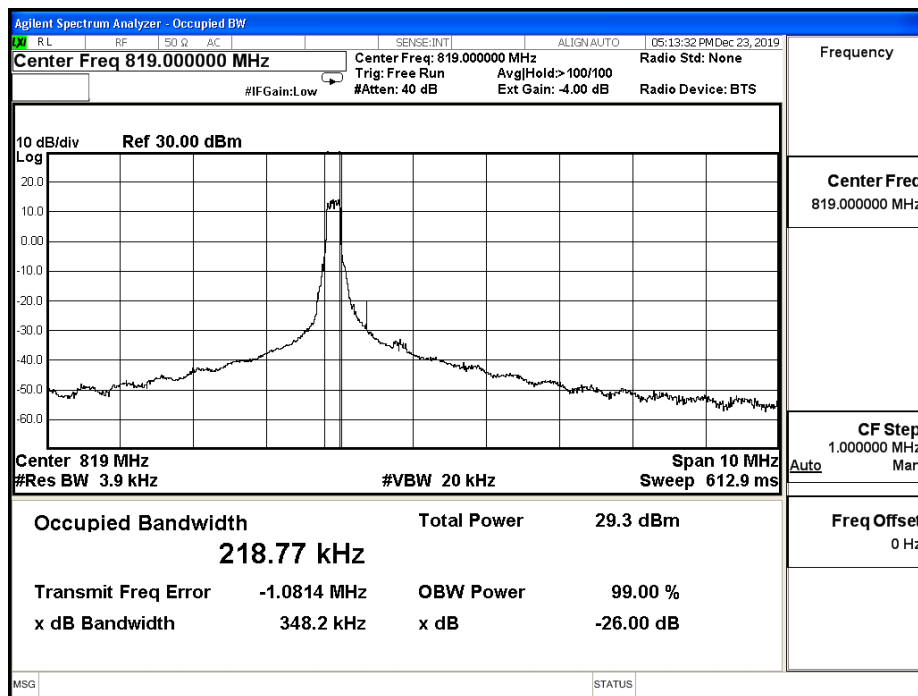
B26_CH26705_3M_16-QAM_1RB0 (Part 90)



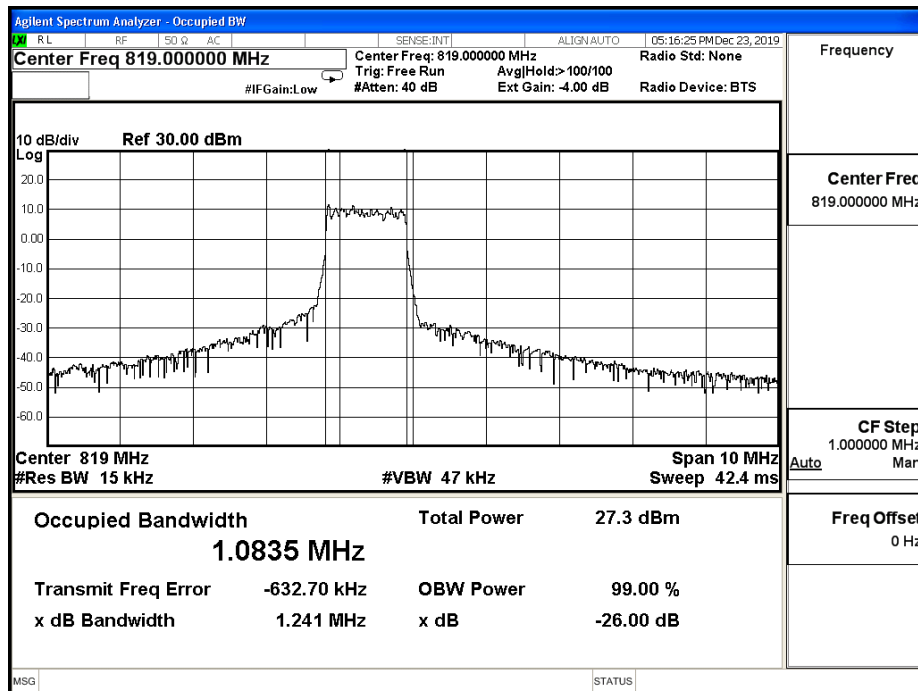
B26_CH26705_3M_16-QAM_5RB0 (Part 90)



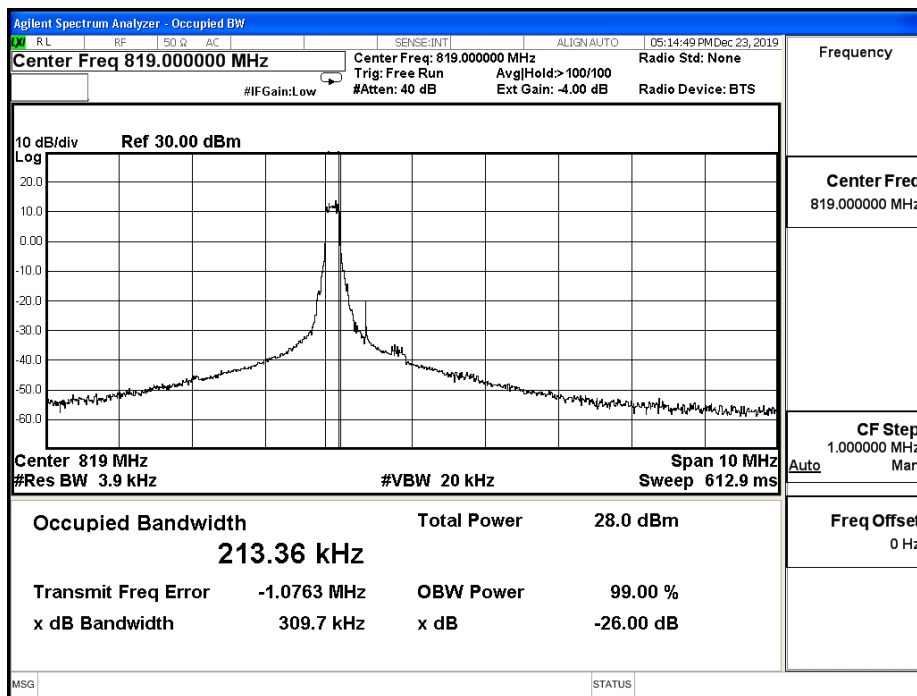
B26_CH26740_3M_QPSK_1RB0 (Part 90)



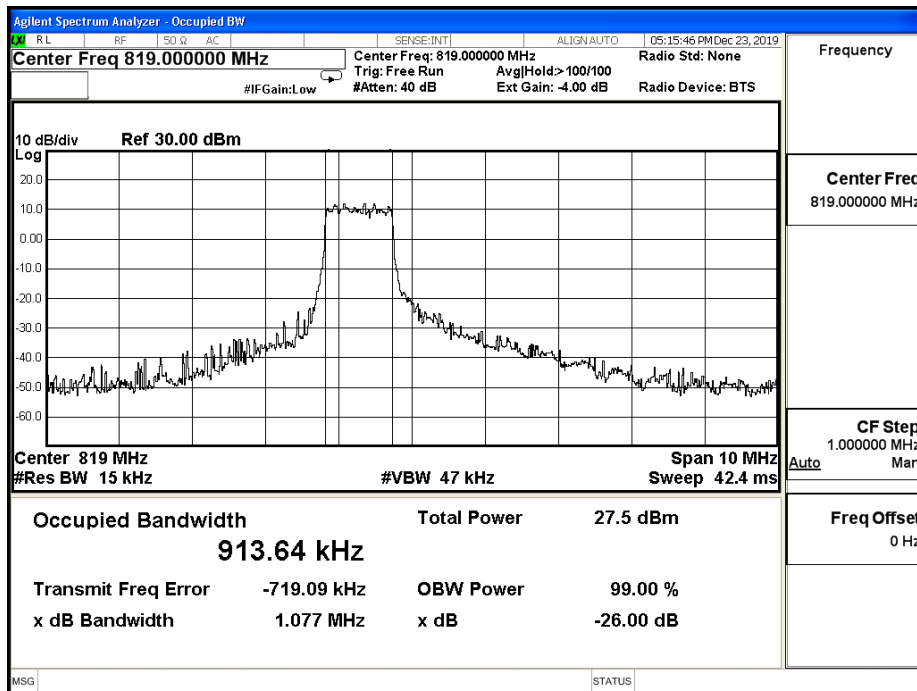
B26_CH26740_3M_QPSK_6RB0 (Part 90)



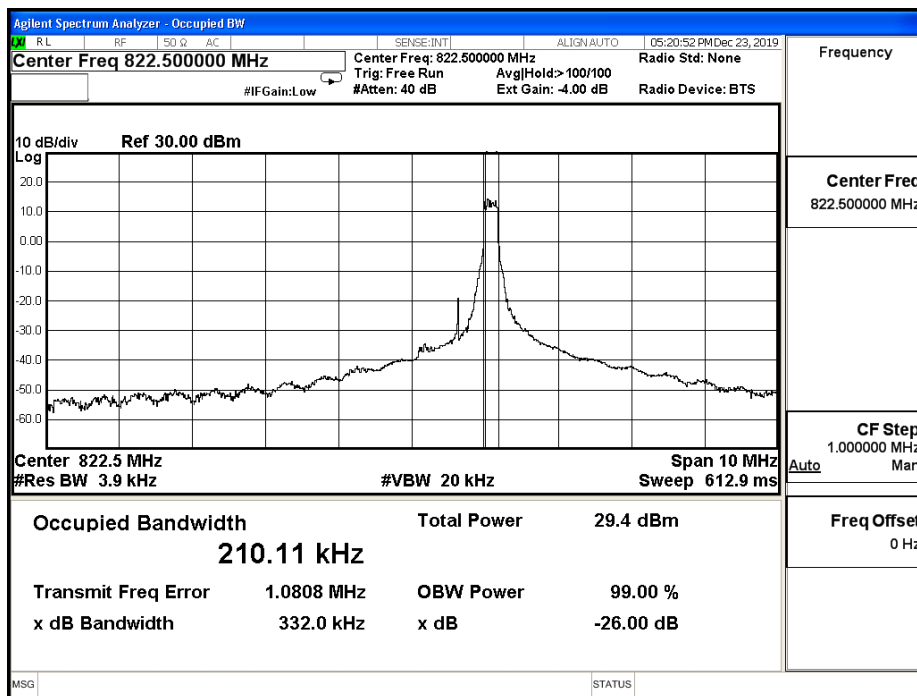
B26_CH26740_3M_16-QAM_1RB0 (Part 90)



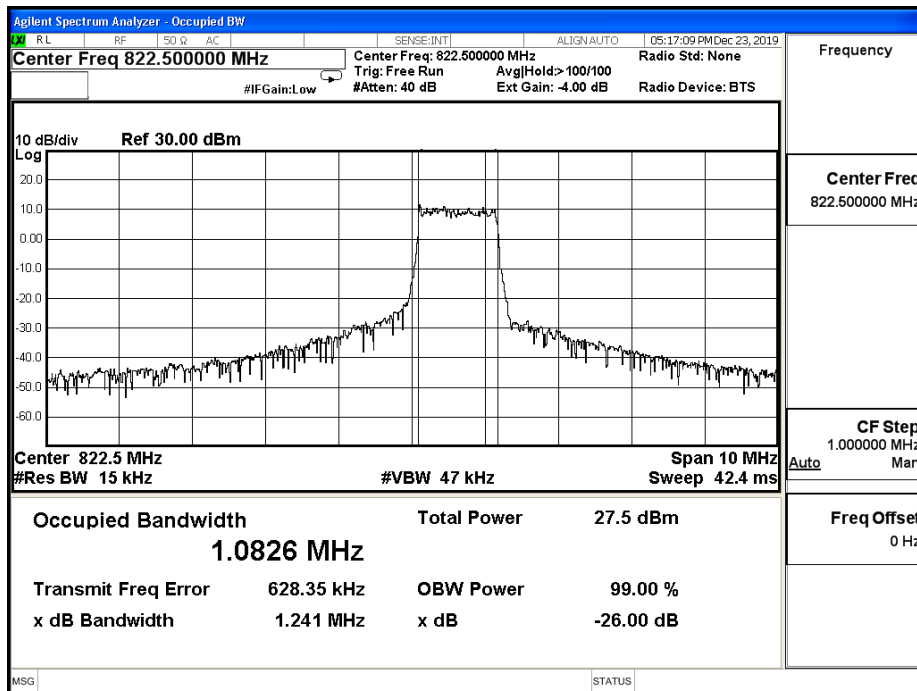
B26_CH26740_3M_16-QAM_5RB0 (Part 90)



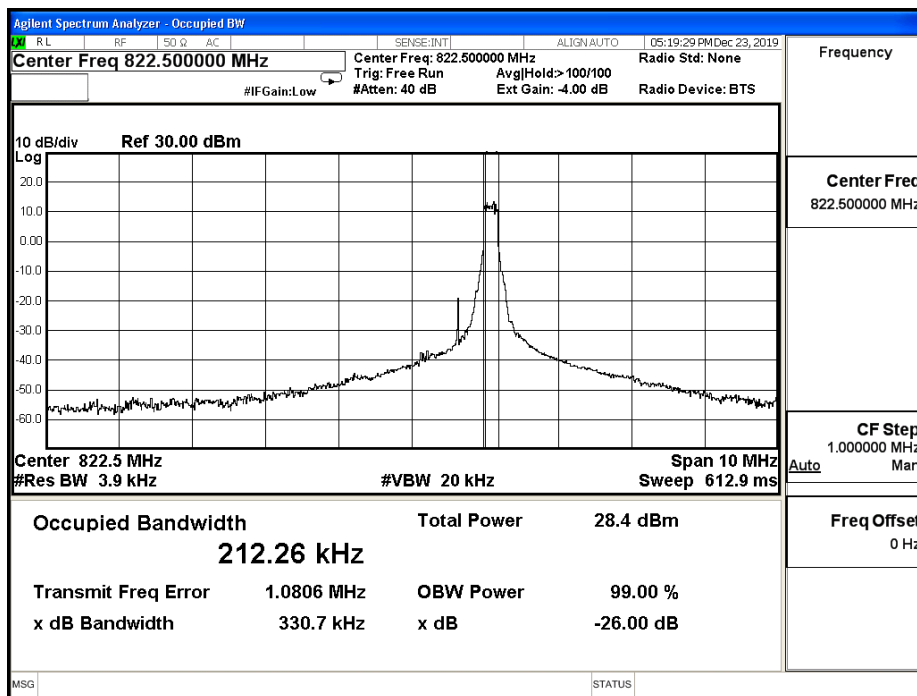
B26_CH26775_3M_QPSK_1RB5 (Part 90)



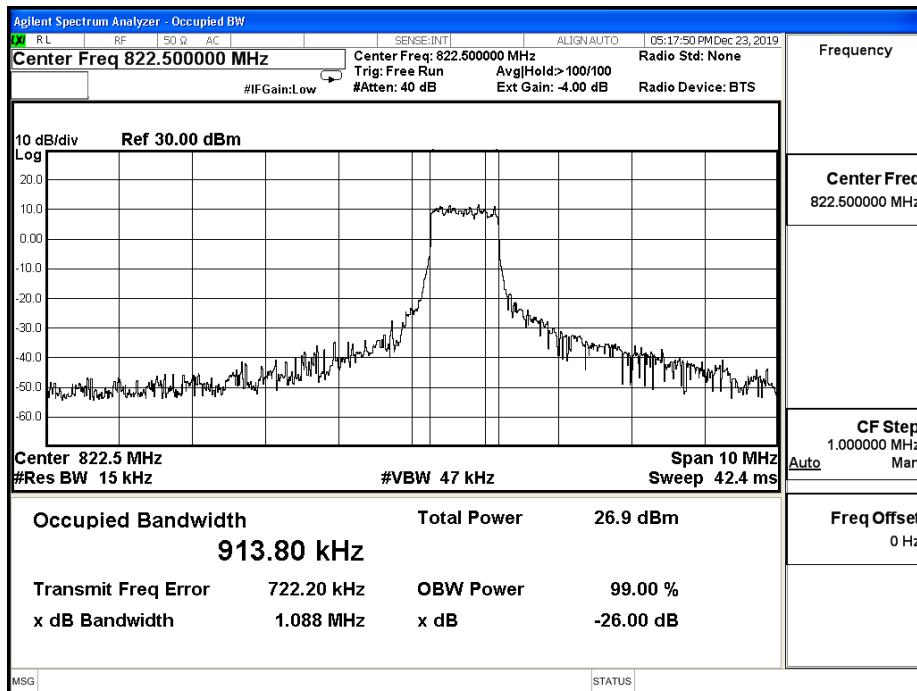
B26_CH26775_3M_QPSK_6RB0 (Part 90)



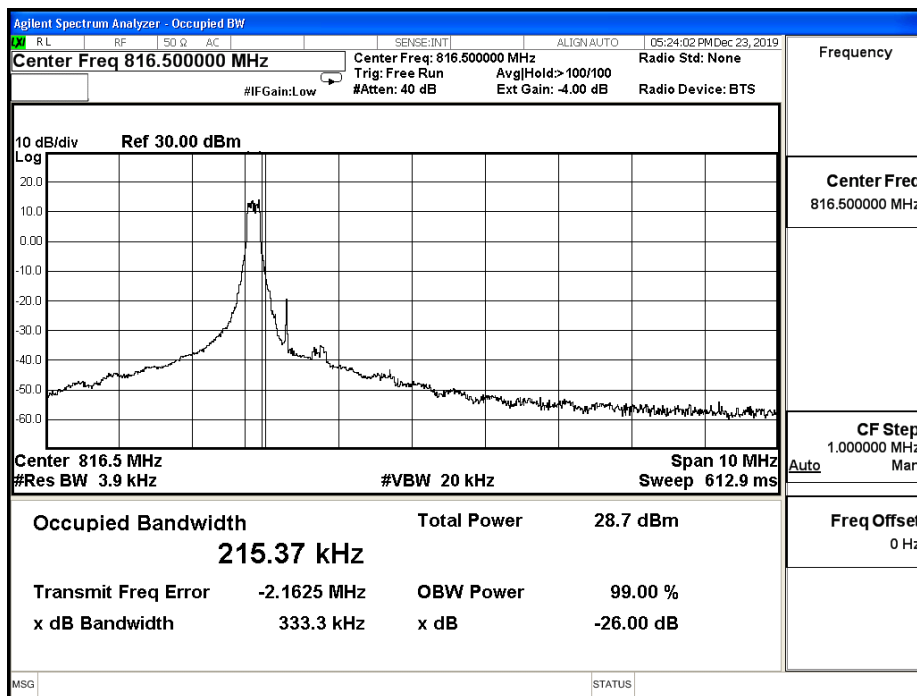
B26_CH26775_3M_16-QAM_1RB5 (Part 90)



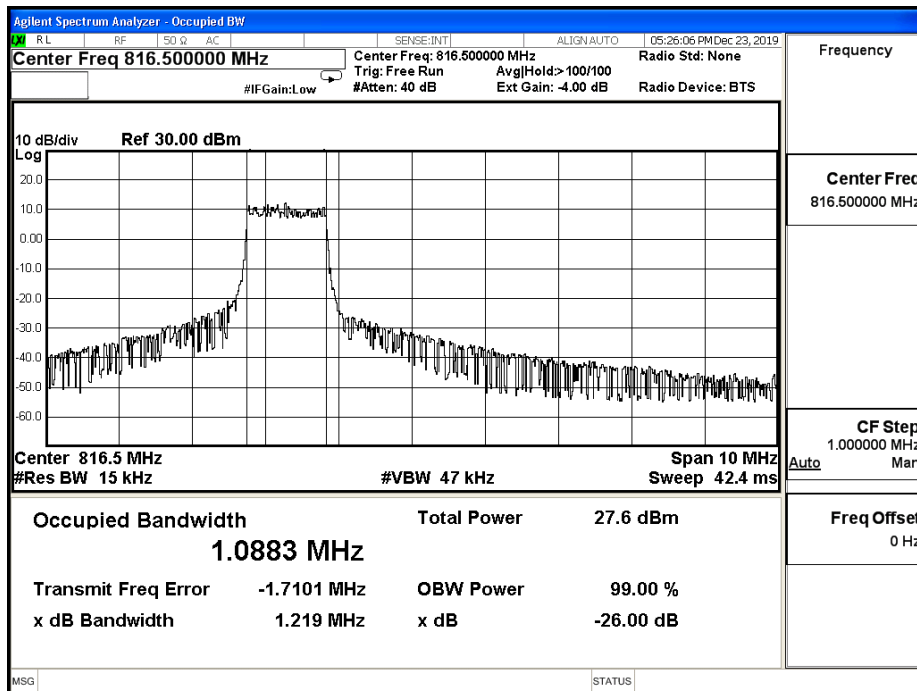
B26_CH26775_3M_16-QAM_5RB1 (Part 90)



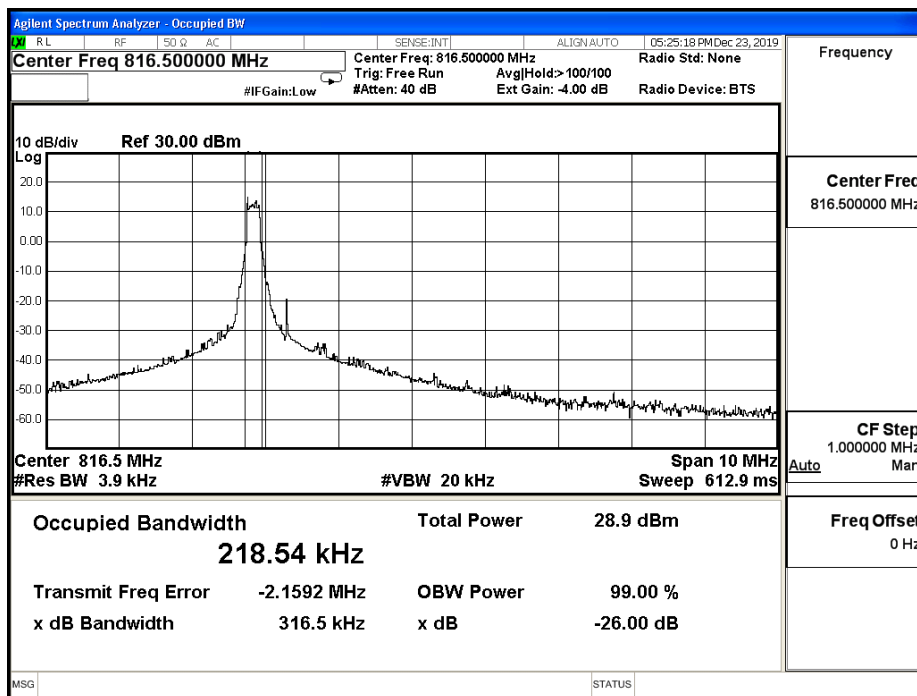
B26_CH26715_5M_QPSK_1RB0 (Part 90)



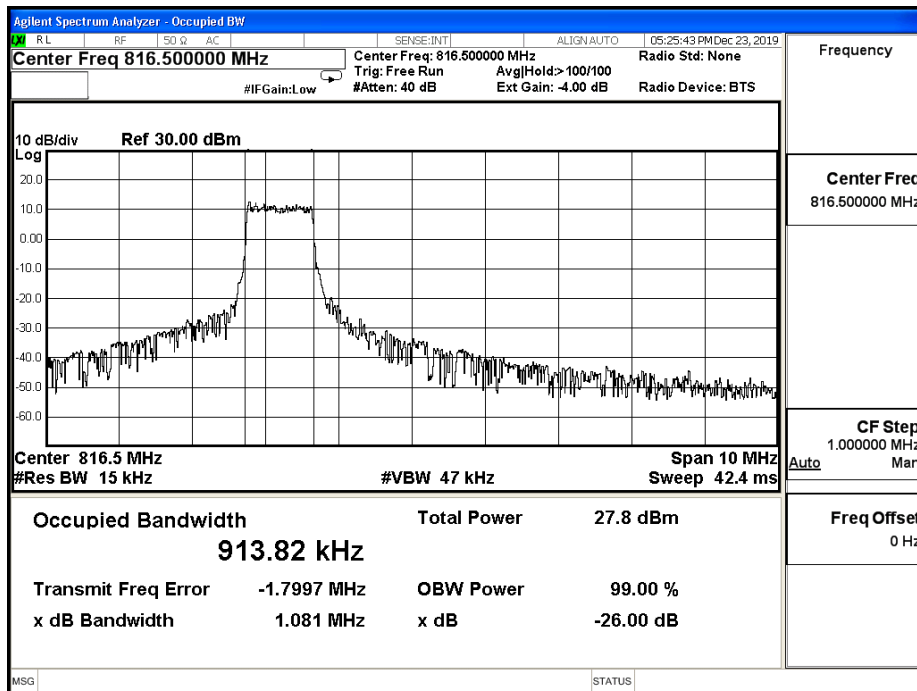
B26_CH26715_5M_QPSK_6RB0 (Part 90)



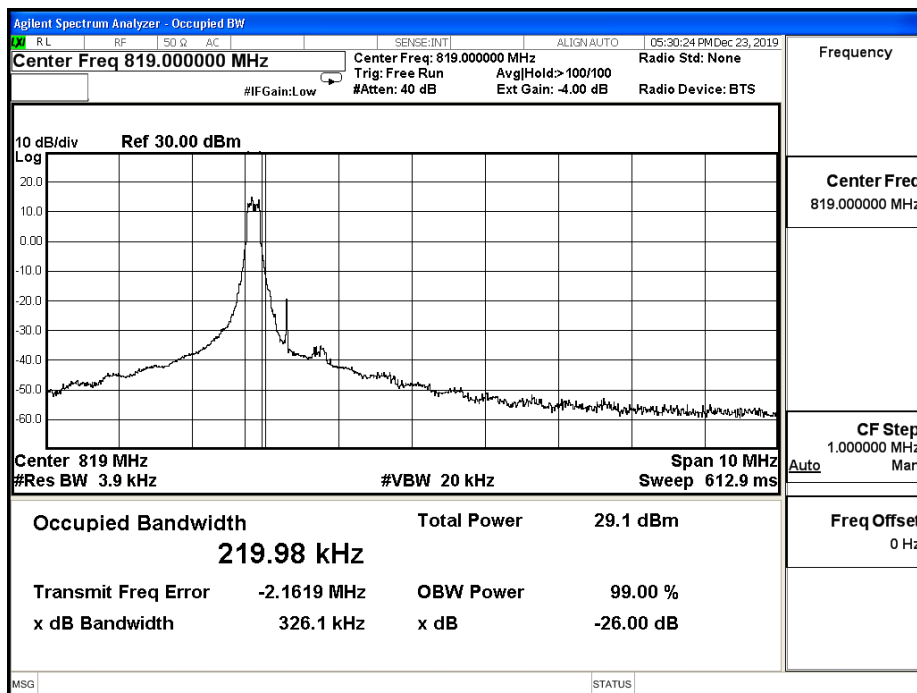
B26_CH26715_5M_16-QAM_1RB0 (Part 90)



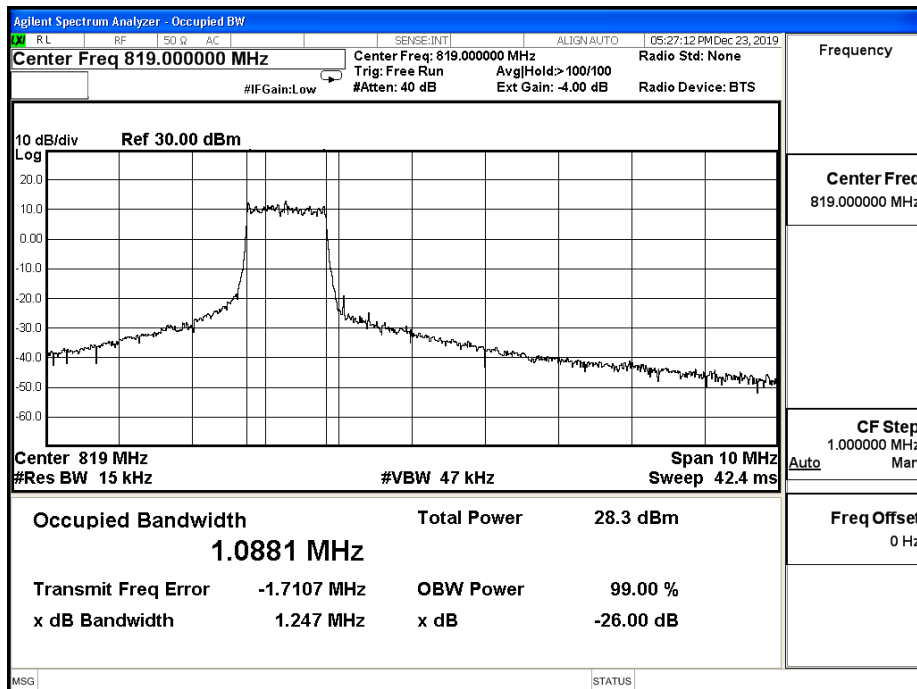
B26_CH26715_5M_16-QAM_5RB0 (Part 90)



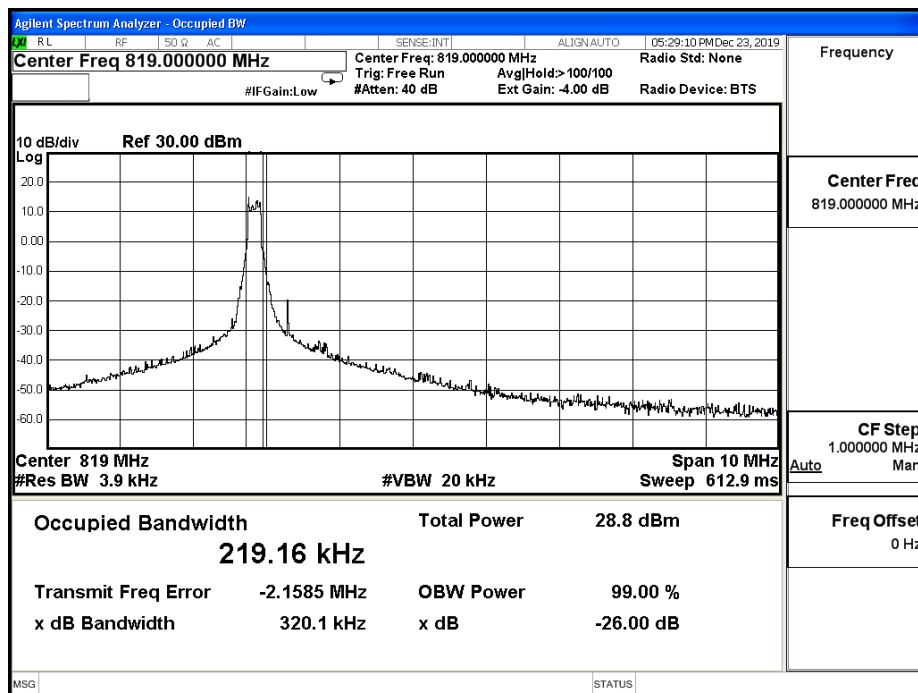
B26_CH26740_5M_QPSK_1RB0 (Part 90)



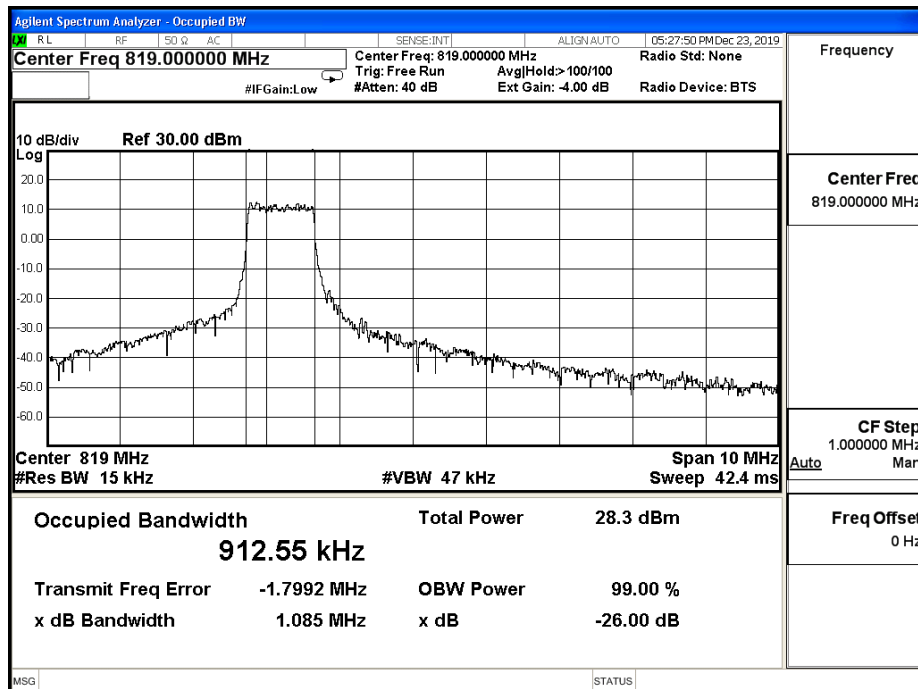
B26_CH26740_5M_QPSK_6RB0 (Part 90)



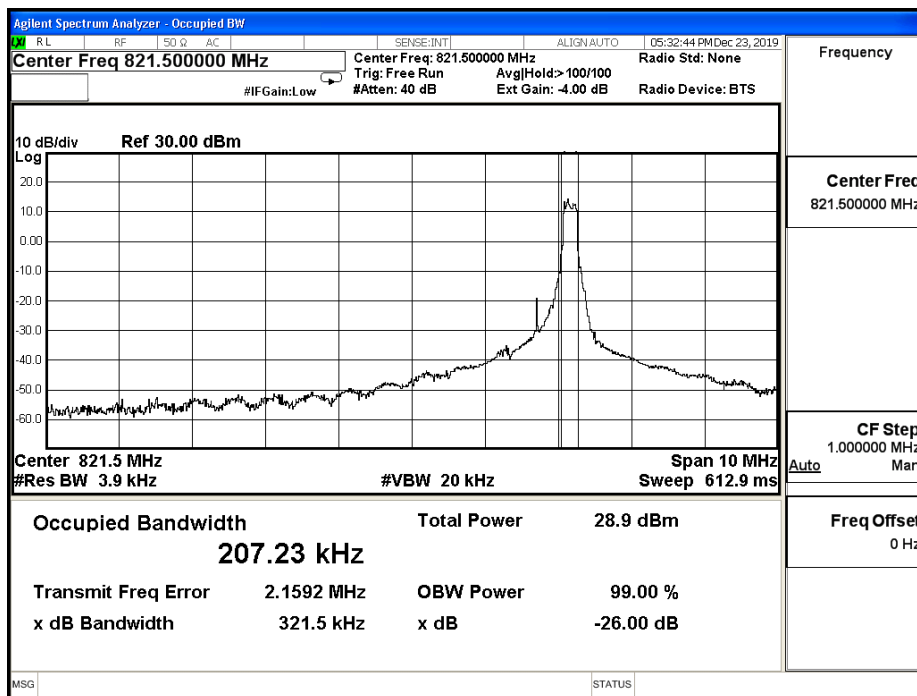
B26_CH26740_5M_16-QAM_1RB0 (Part 90)



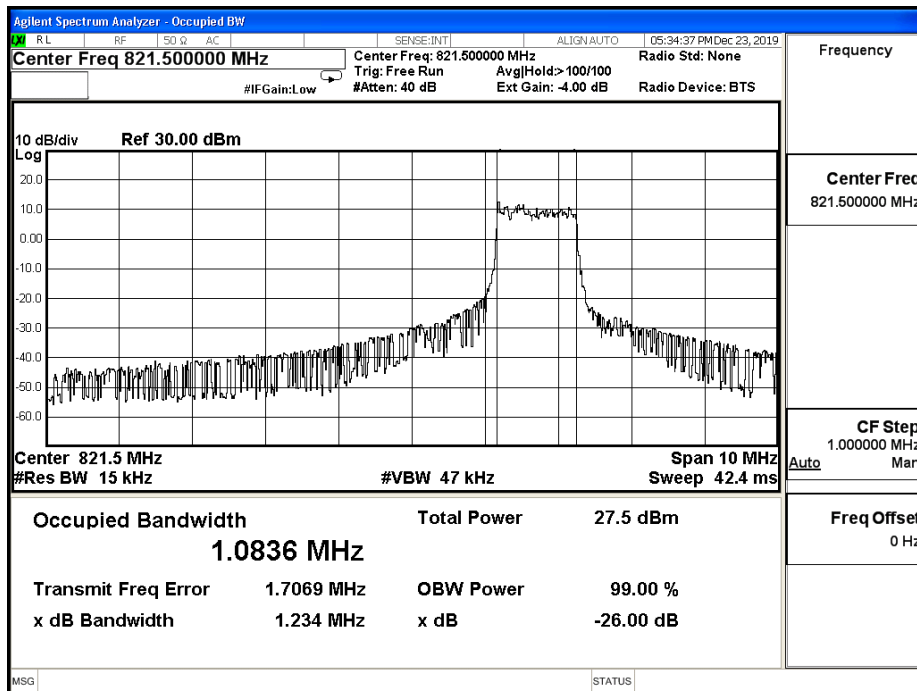
B26_CH26740_5M_16-QAM_5RB0 (Part 90)



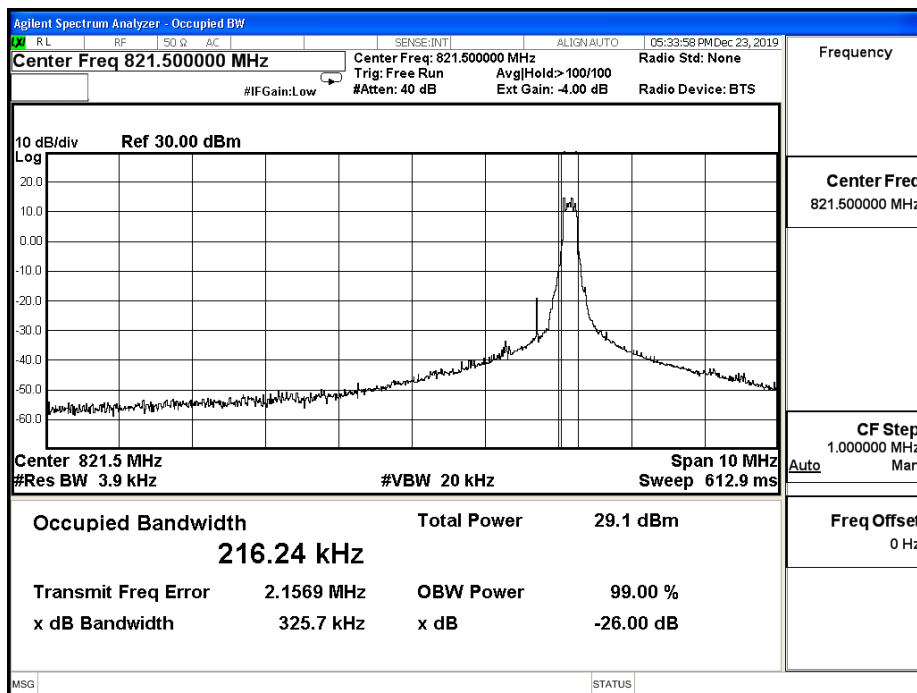
B26_CH26765_5M_QPSK_1RB5 (Part 90)



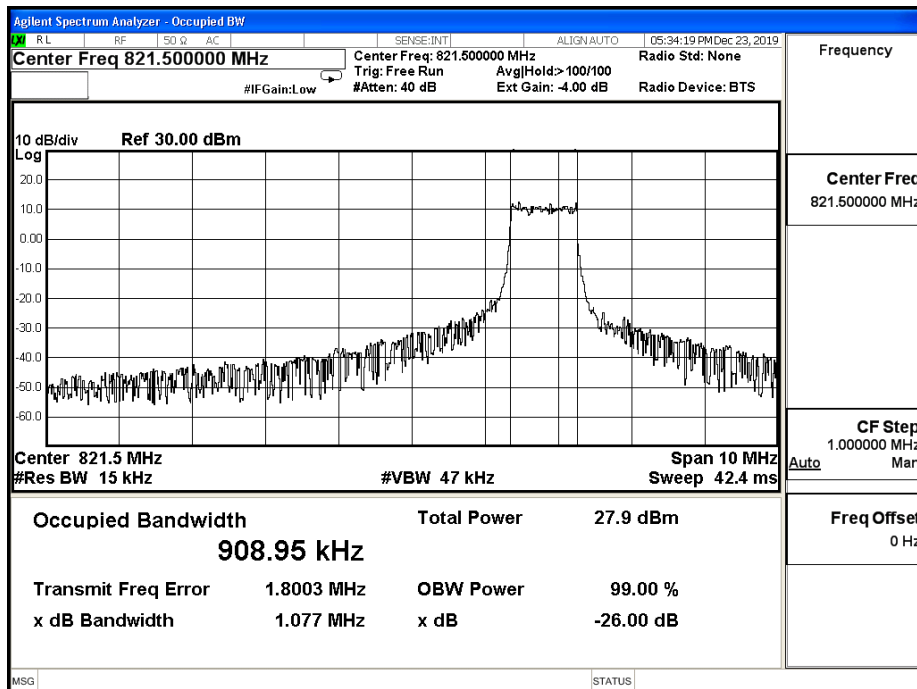
B26_CH26765_5M_QPSK_6RB0 (Part 90)



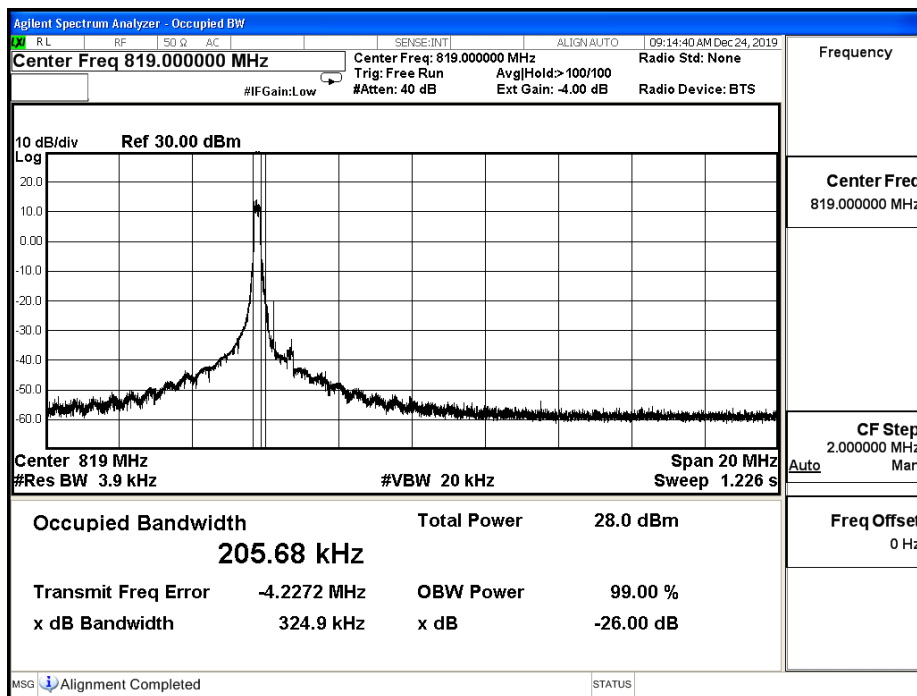
B26_CH26765_5M_16-QAM_1RB5 (Part 90)



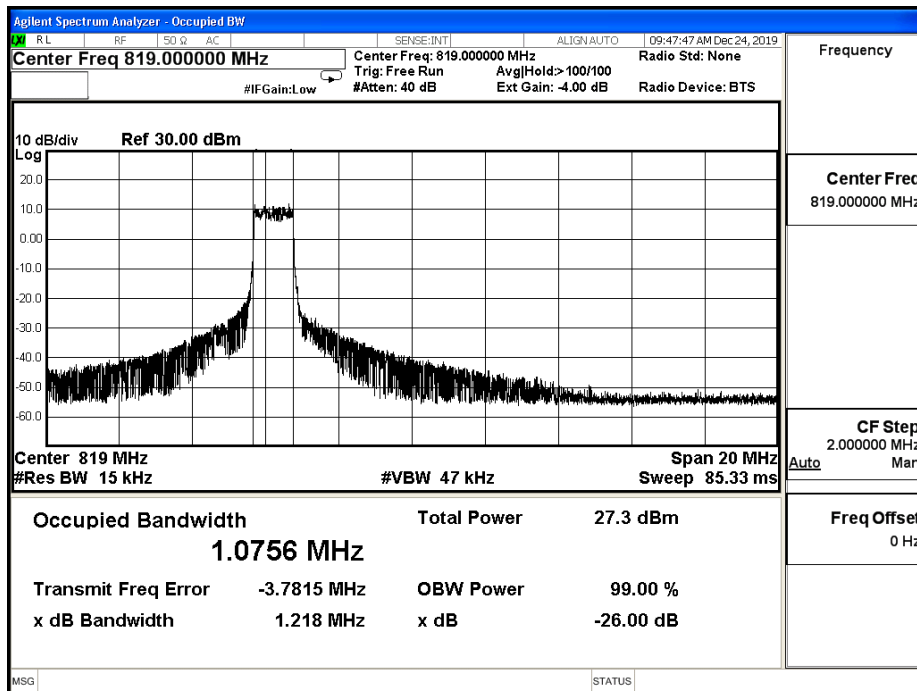
B26_CH26765_5M_16-QAM_5RB1 (Part 90)



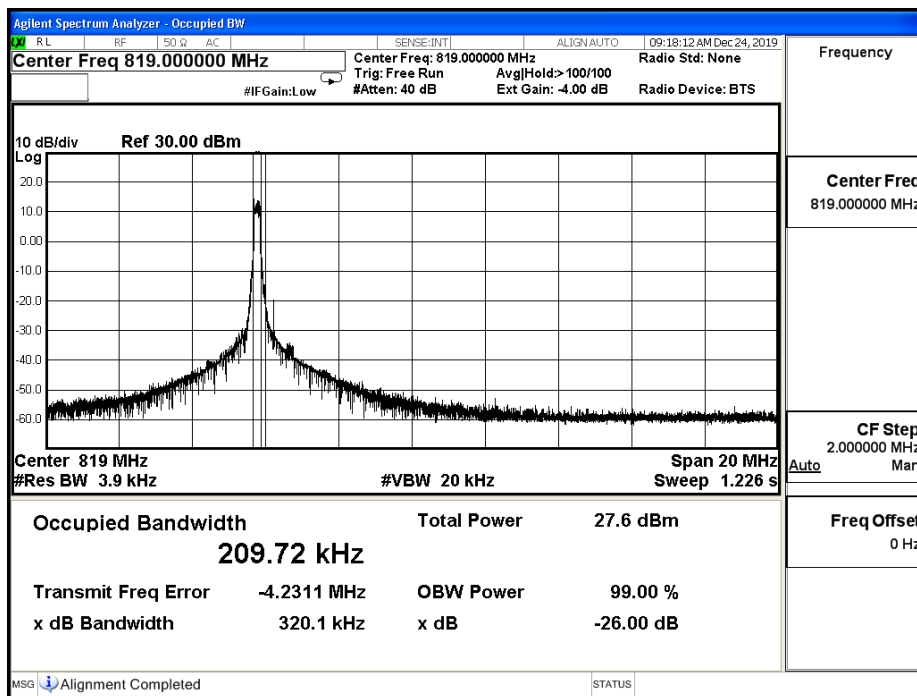
B26__CH26740_10M_QPSK_1RB0_low (Part 90)



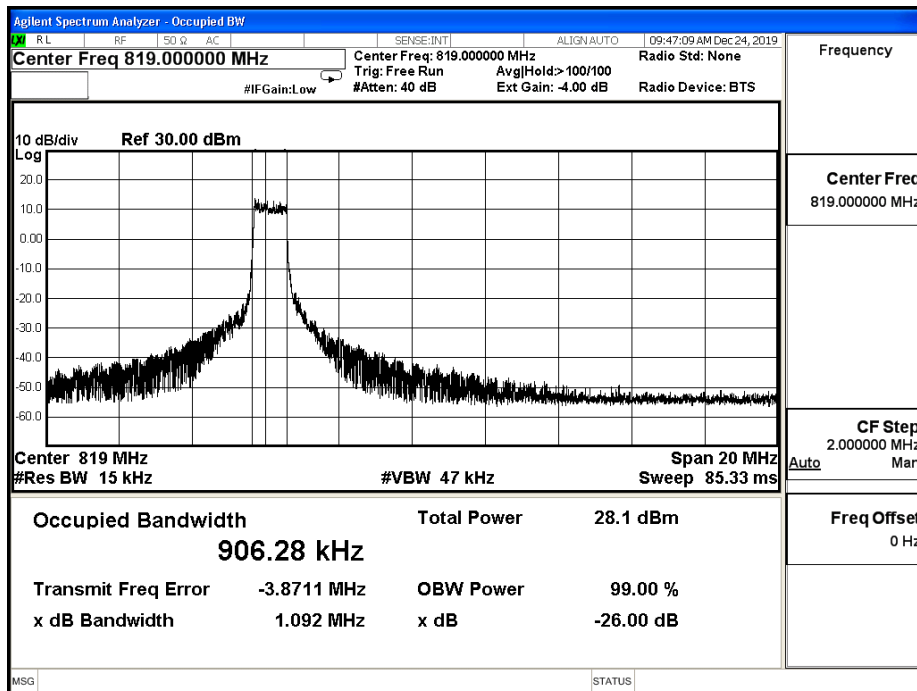
B26__CH26740_10M_QPSK_6RB0_low (Part 90)



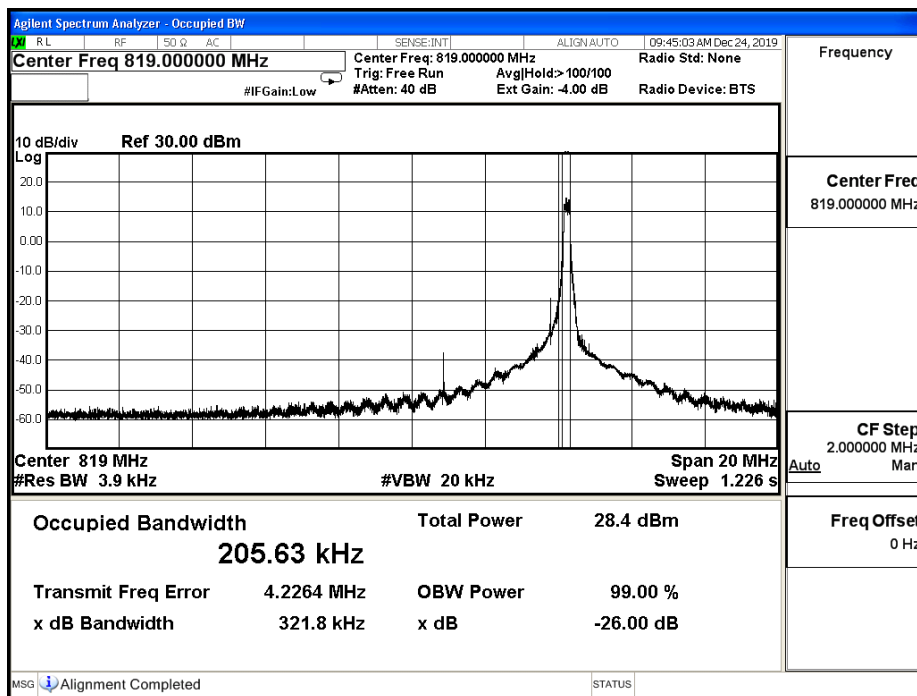
B26__CH26740_10M_16-QAM_1RB0_low (Part 90)



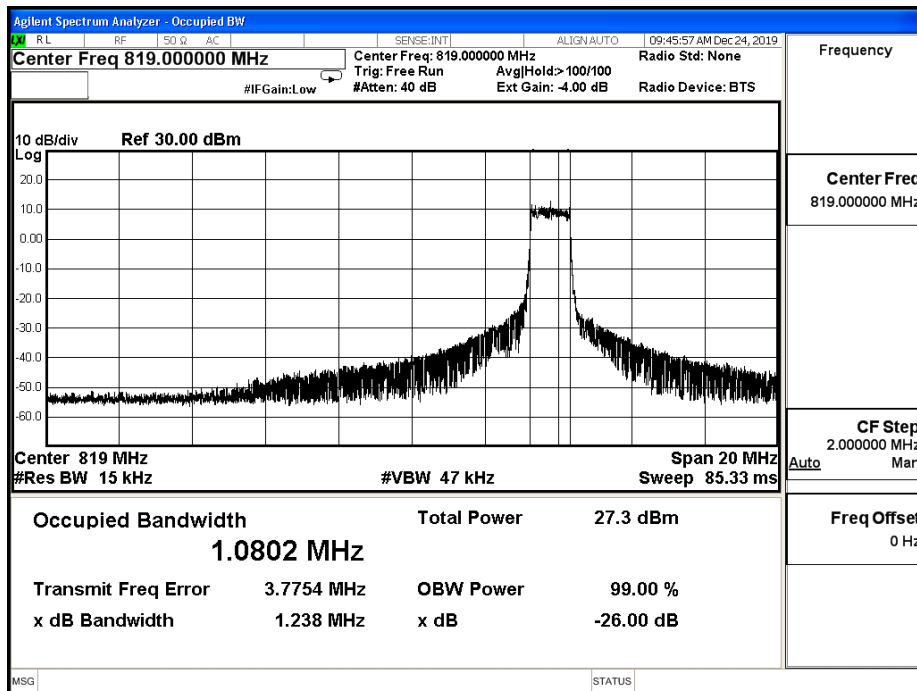
B26__CH26740_10M_16-QAM_5RB0_low (Part 90)



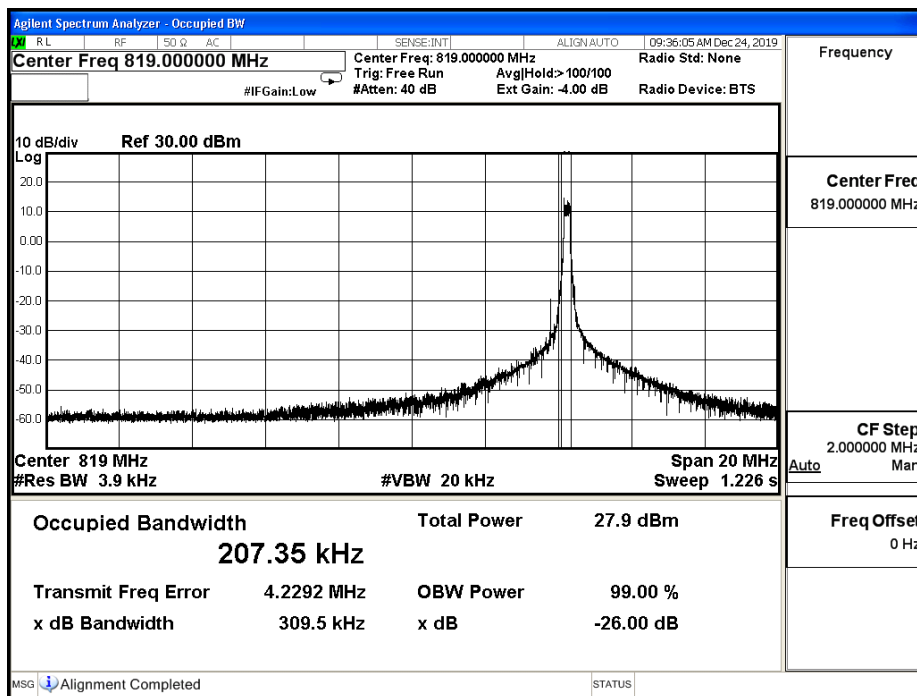
B26_CH26740_10M_QPSK_1RB5_high (Part 90)



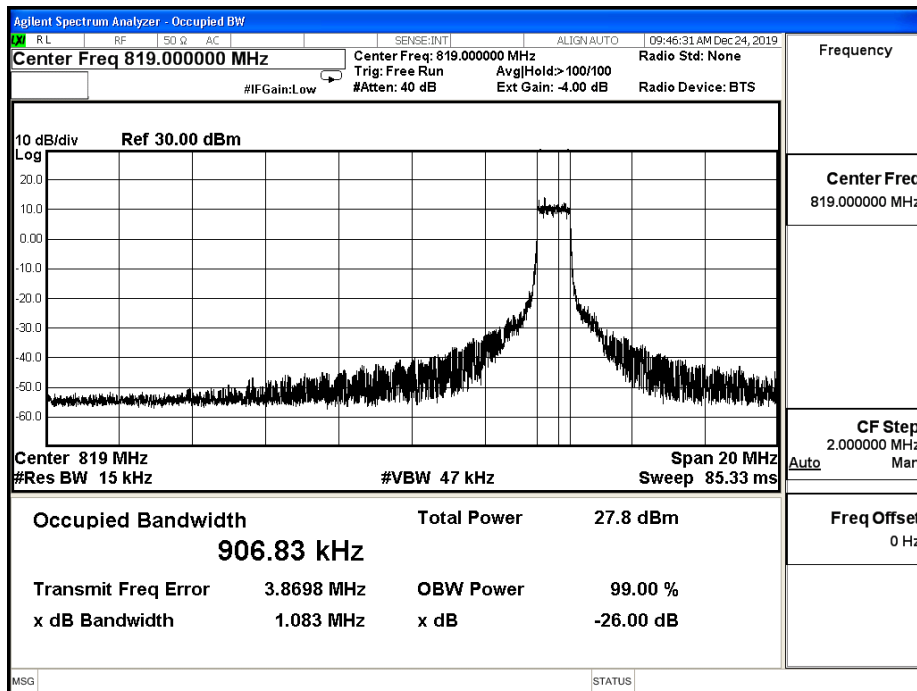
B26_CH26740_10M_QPSK_6RB0_high (Part 90)



B26_CH26740_10M_16-QAM_1RB5_high (Part 90)

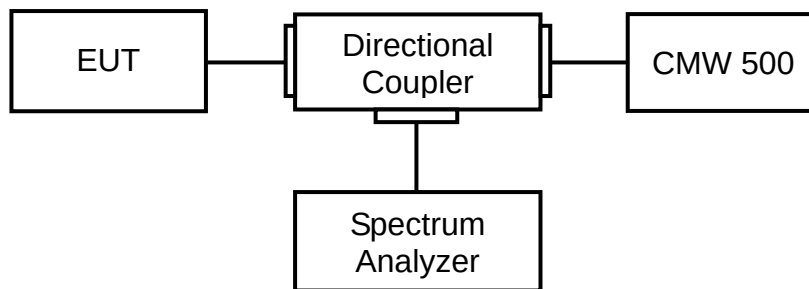


B26_CH26740_10M_16-QAM_5RB1_high (Part 90)



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.

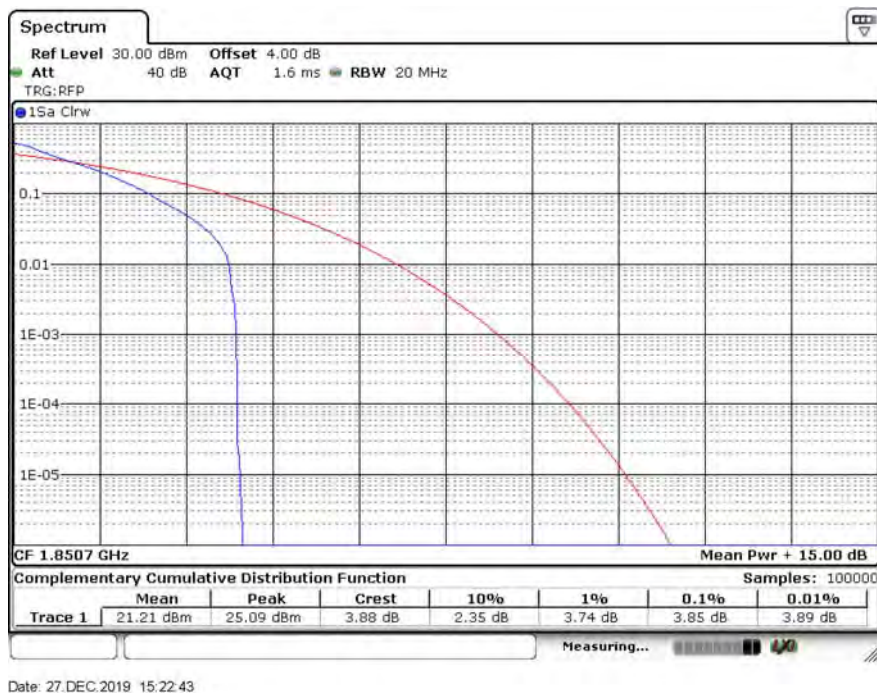
5.5. Test Result

Product	M2M DATA MODULE		
Test Item	Peak To Average Ratio		
Test Mode	Mode 1: LTE Band 2		
Date of Test	2019/12/27	Test Site	SR12-H
Temperature (°C)	21.0°C	Humidity (%RH)	60%RH

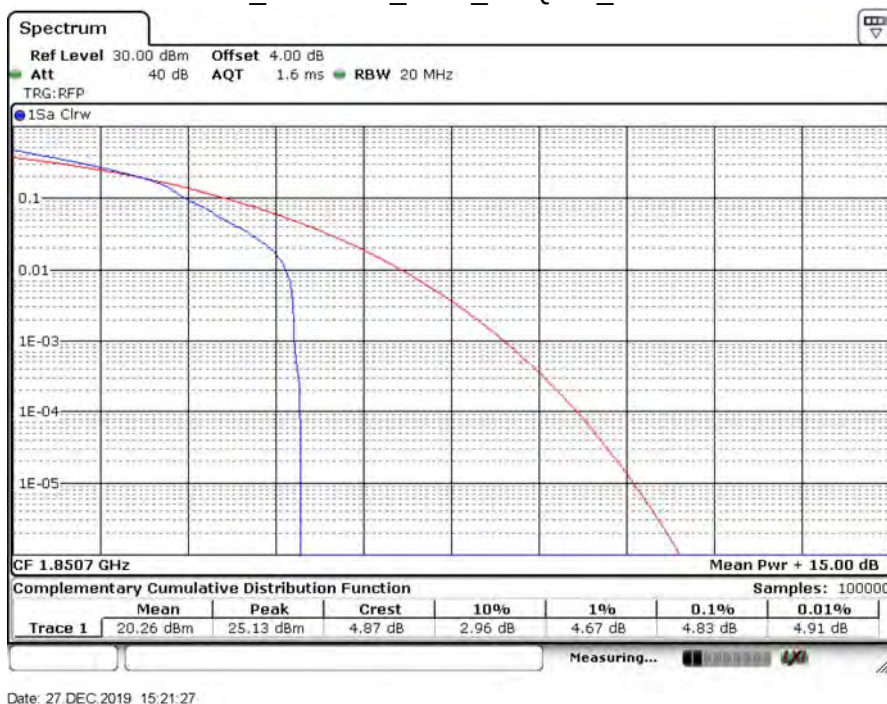
Band width (MHz)	Channel	Frequency (MHz)	Modulation	Peak (dBm)	Average (dBm)	PAPR (dB)
1.4M	18607	1850.7	QPSK	25.09	21.21	3.85
			16-QAM	25.13	20.26	4.83
	18900	1880	QPSK	24.95	20.89	4.04
			16-QAM	25.10	20.21	4.85
	19193	1909.3	QPSK	25.11	21.05	4.02
			16-QAM	25.11	20.05	5.00
3M	18615	1851.5	QPSK	24.92	20.99	3.91
			16-QAM	25.00	20.11	4.85
	18900	1880	QPSK	24.94	20.94	3.98
			16-QAM	25.01	20.02	4.93
	19185	1908.5	QPSK	24.93	20.83	4.07
			16-QAM	24.93	19.87	5.04
5M	18625	1852.5	QPSK	24.82	20.91	3.89
			16-QAM	25.10	20.63	4.46
	18900	1880	QPSK	24.86	20.81	4.02
			16-QAM	25.21	20.74	4.48
	19175	1907.5	QPSK	24.79	20.73	4.07
			16-QAM	25.10	20.47	4.61
10M	18650	1855	QPSK	24.34	20.39	3.93
			16-QAM	24.60	20.12	4.48
	18900	1880	QPSK	24.40	20.40	3.98
			16-QAM	24.77	20.31	4.43
	19150	1905	QPSK	24.53	20.48	4.04
			16-QAM	24.86	20.30	4.54

Band width (MHz)	Channel	Frequency (MHz)	Modulation	Peak (dBm)	Average (dBm)	PAPR (dB)
15M	18675	1857.5	QPSK	23.67	19.76	3.89
			16-QAM	23.95	19.49	4.46
	18900	1880	QPSK	23.60	19.63	3.96
			16-QAM	23.91	19.46	4.43
	19125	1902.5	QPSK	23.81	19.68	4.07
			16-QAM	24.01	19.35	4.67
20M	18700	1860	QPSK	22.80	18.91	3.89
			16-QAM	23.08	18.66	4.43
	18900	1880	QPSK	22.81	18.81	3.96
			16-QAM	23.14	18.67	4.46
	19100	1900	QPSK	22.91	18.80	4.11
			16-QAM	23.25	18.65	4.63

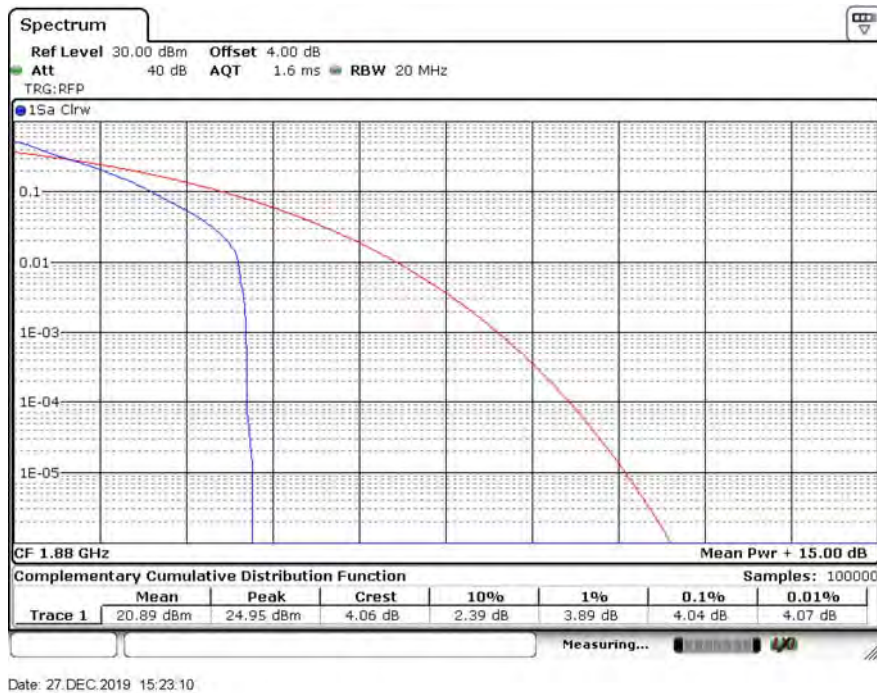
B2_CH18607_1.4M_QPSK_1RB0



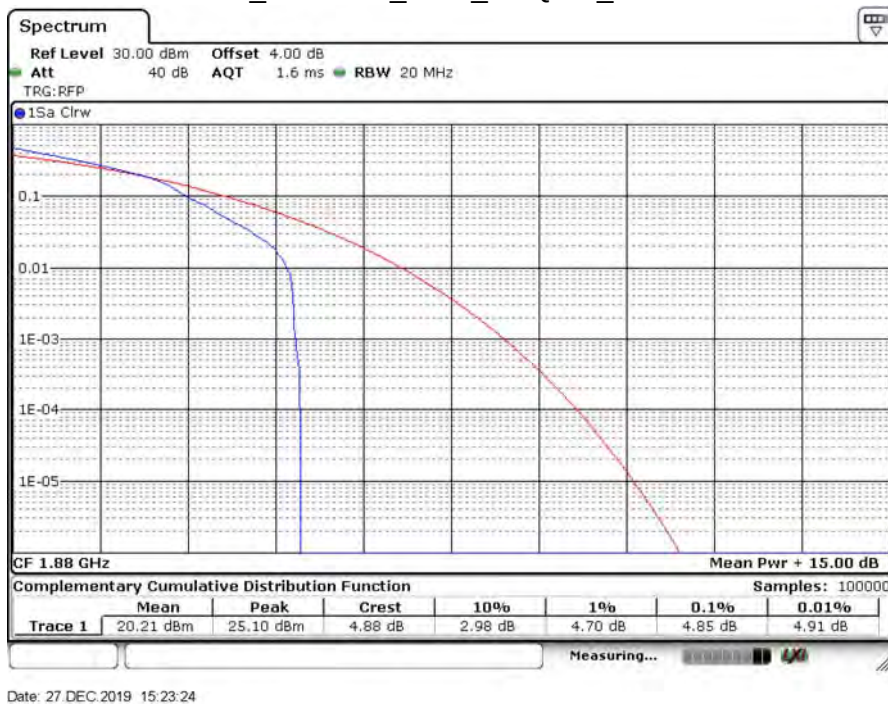
B2_CH18607_1.4M_16-QAM_1RB0



B2_CH18900_1.4M_QPSK_1RB0



B2_CH18900_1.4M_16-QAM_1RB0



B2_CH19193_1.4M_QPSK_1RB5



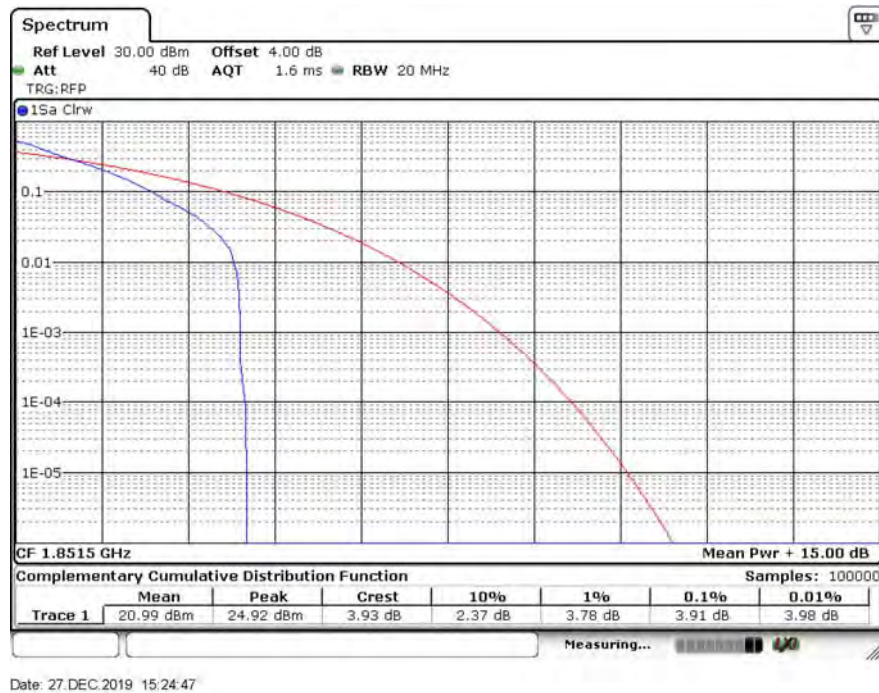
Date: 27 DEC 2019 15:24:09

B2_CH19193_1.4M_16-QAM_1RB5

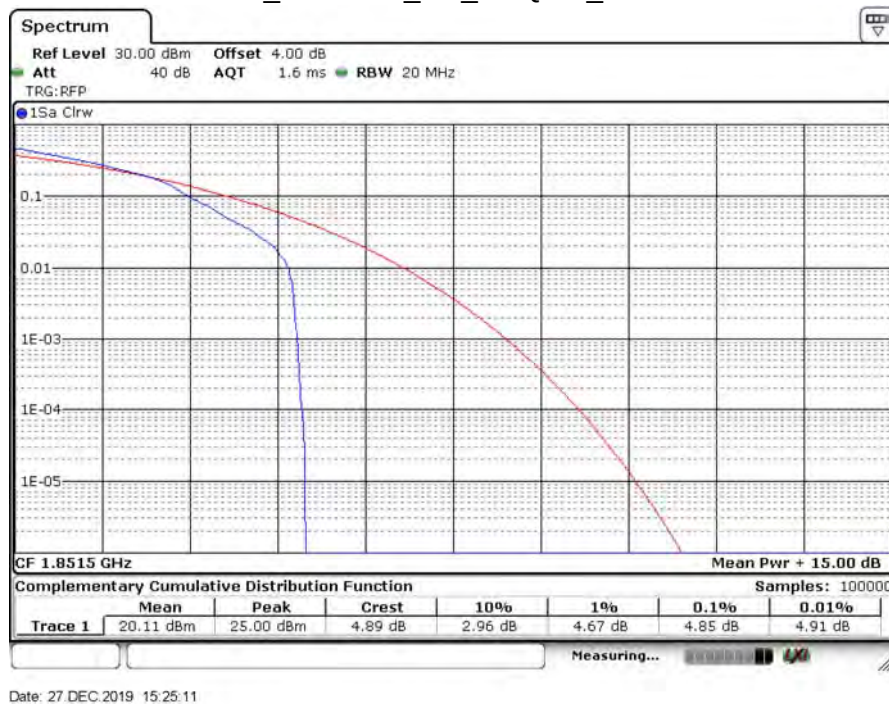


Date: 27 DEC 2019 15:23:56

B2_CH18615_3M_QPSK_1RB0



B2_CH18615_3M_16-QAM_1RB0



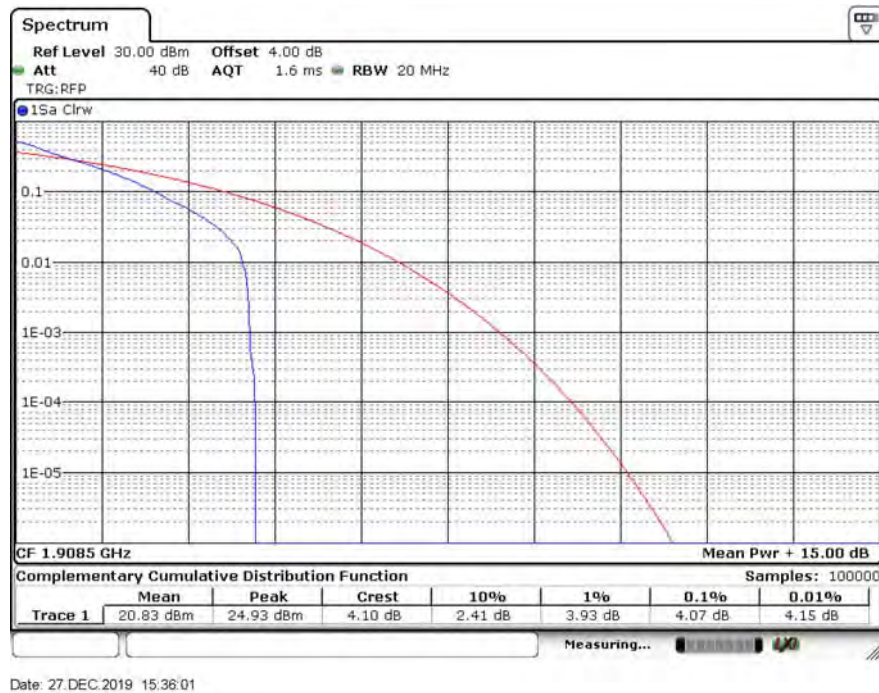
B2_CH18900_3M_QPSK_1RB0



B2_CH18900_3M_16-QAM_1RB0



B2_CH19185_3M_QPSK_1RB5



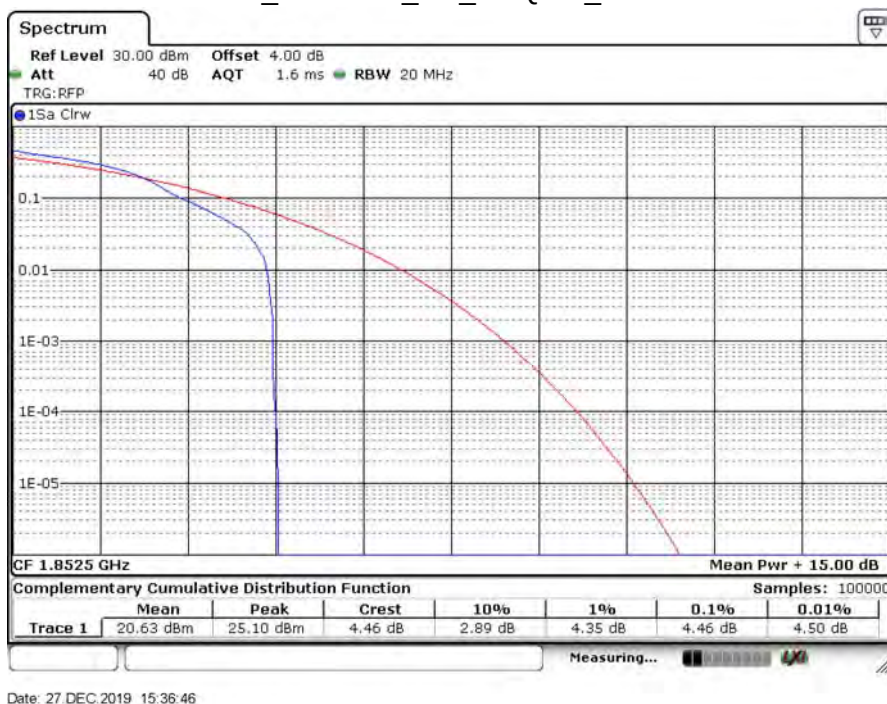
B2_CH19185_3M_16-QAM_1RB5



B2_CH18625_5M_QPSK_1RB0



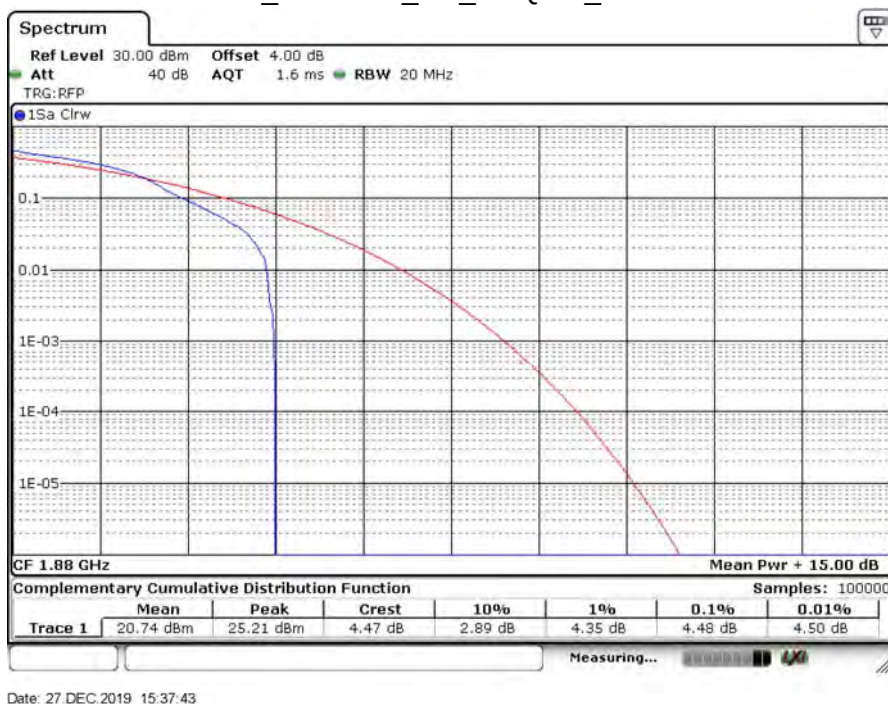
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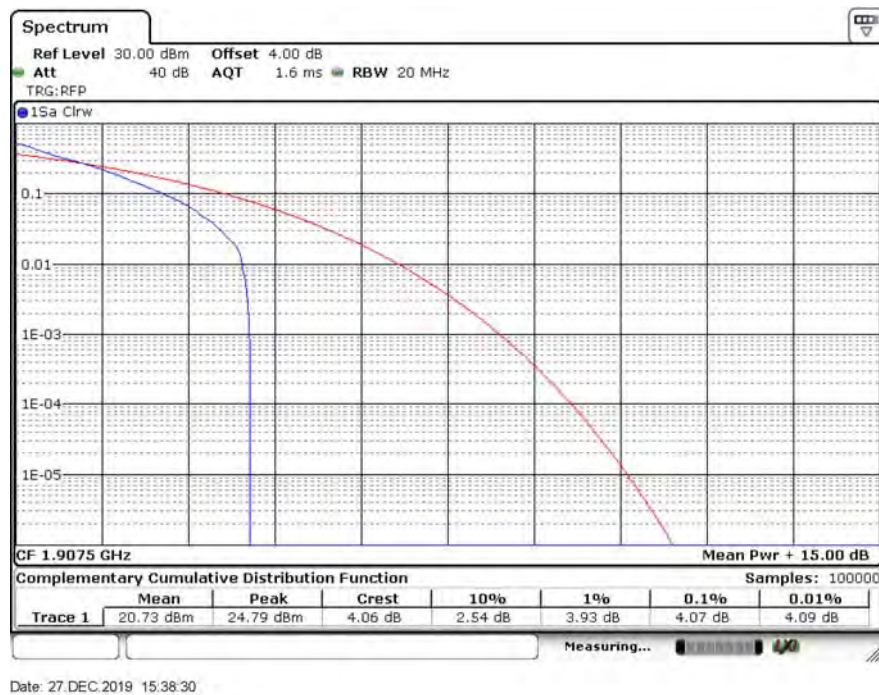
B2_CH18900_5M_QPSK_1RB0



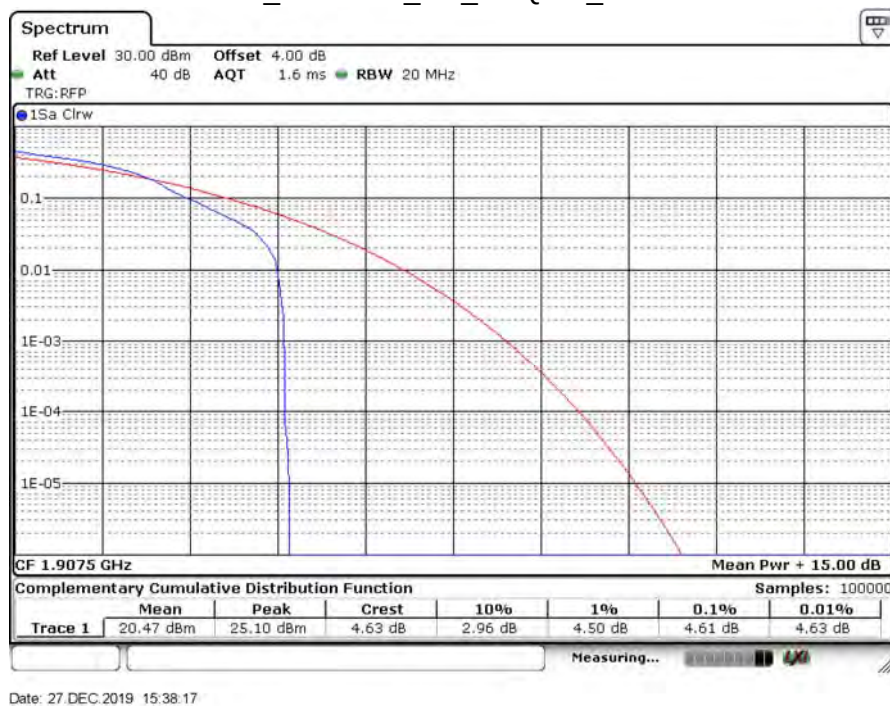
B2_CH18900_5M_16-QAM_1RB0



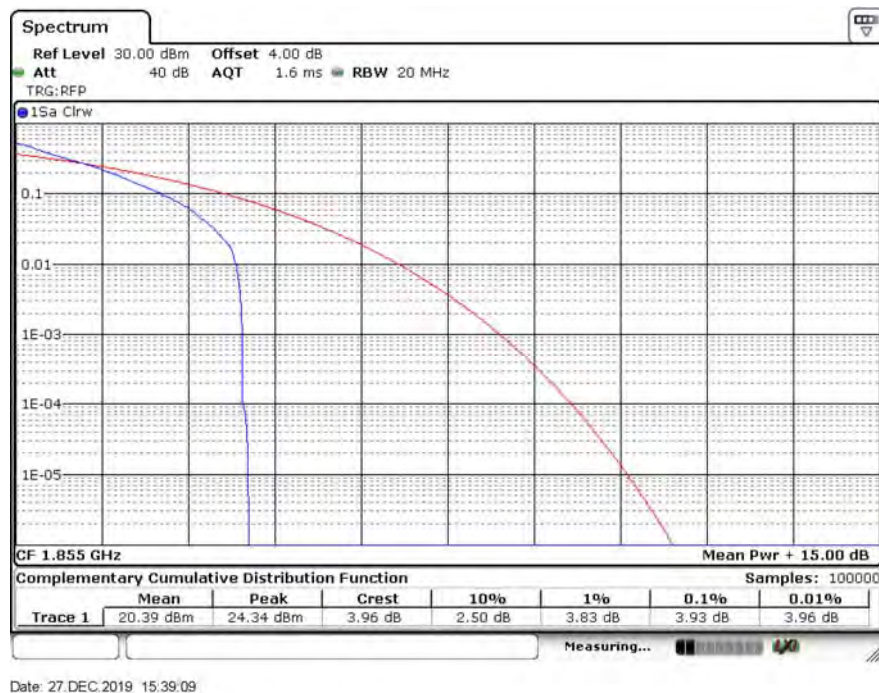
B2_CH19175_5M_QPSK_1RB5



B2_CH19175_5M_16-QAM_1RB5



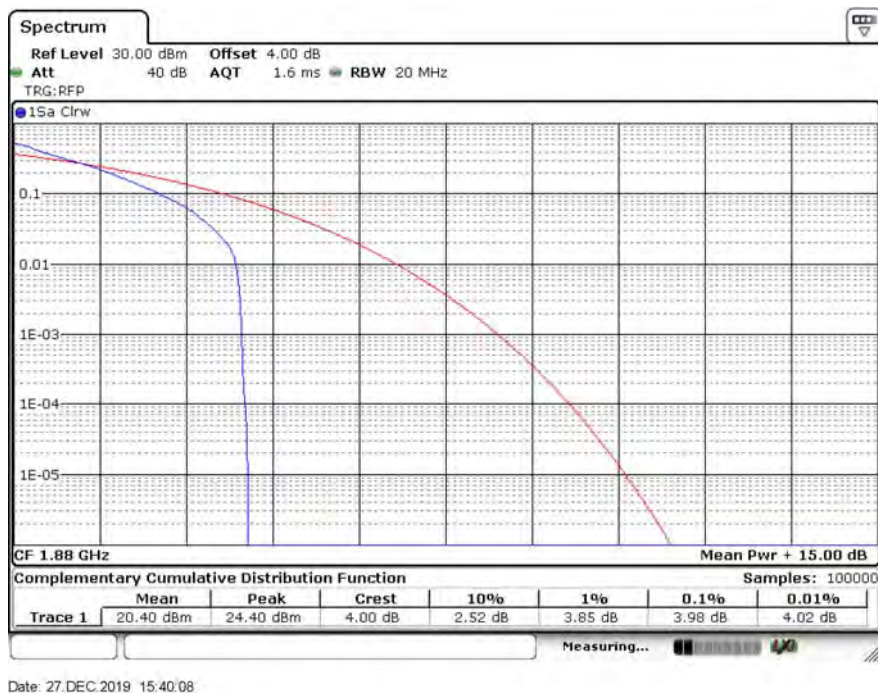
B2_CH18650_10M_QPSK_1RB0



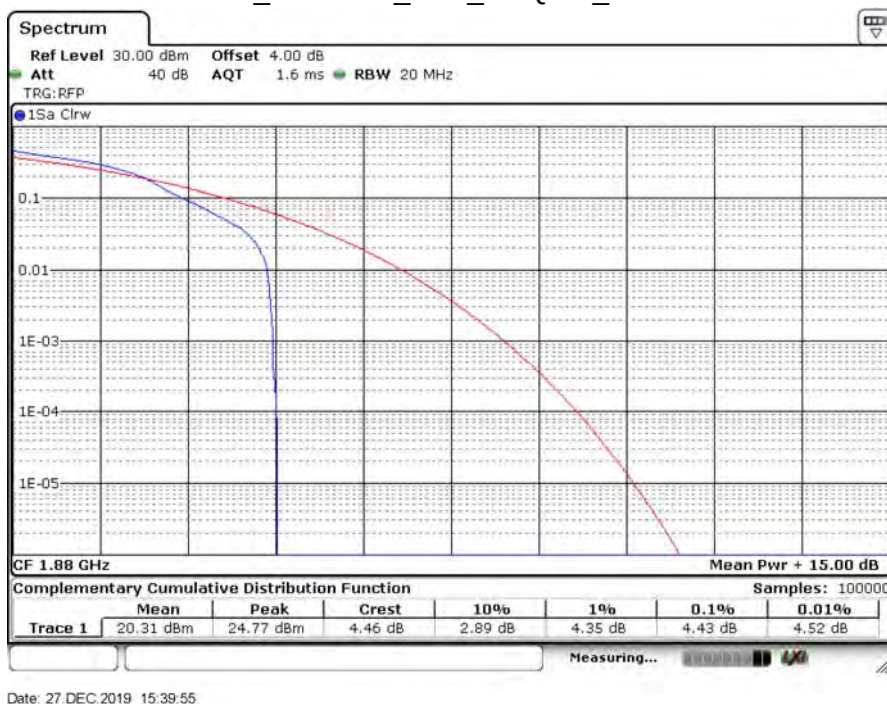
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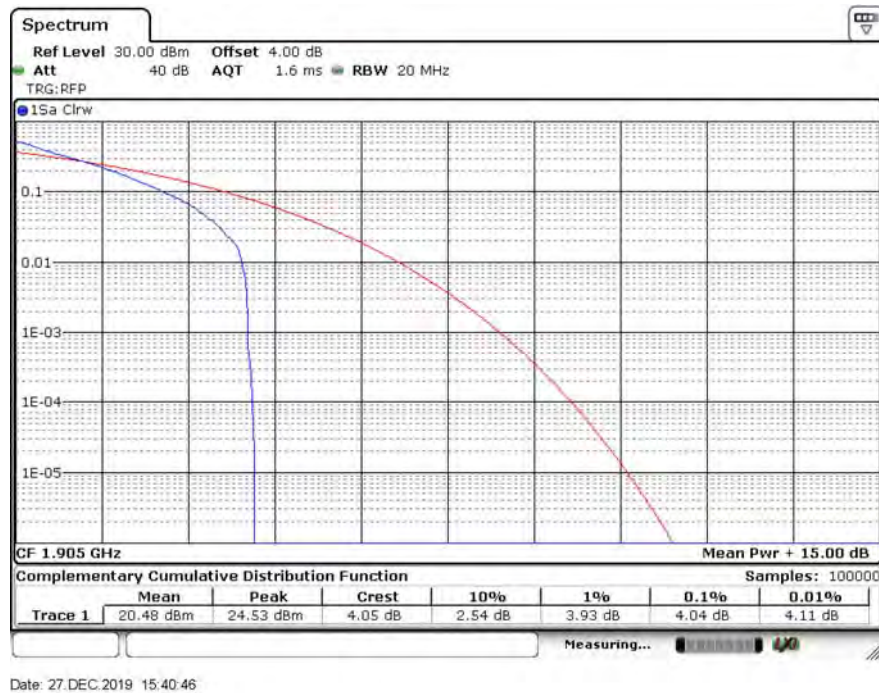
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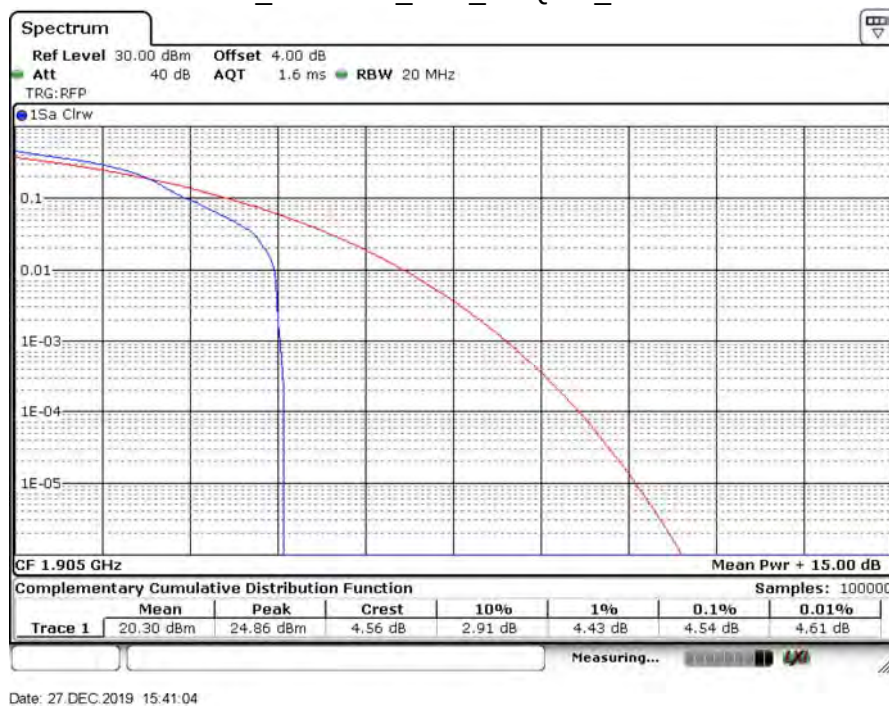
B2_CH18900_10M_16-QAM_1RB0



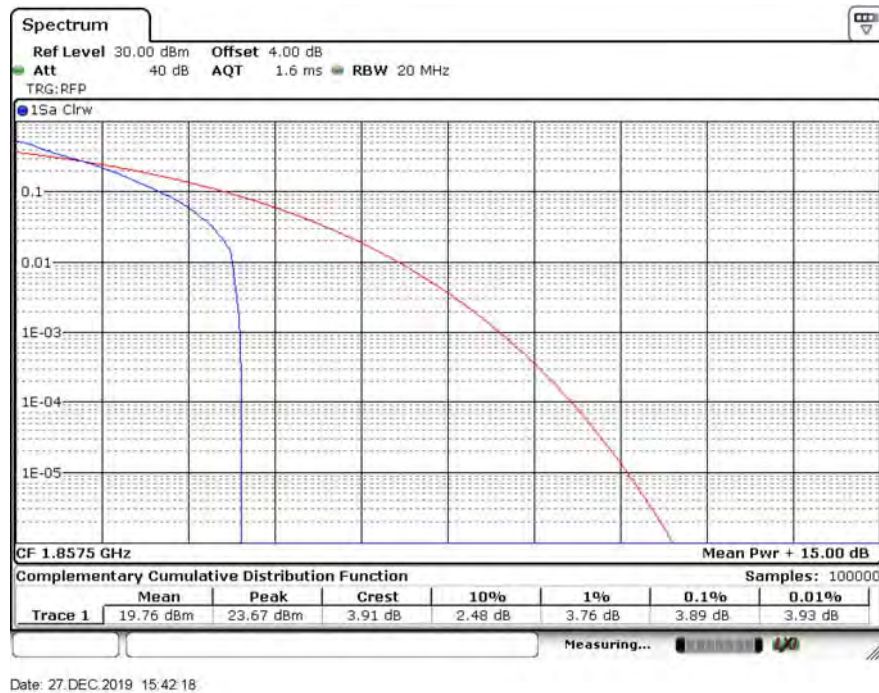
B2_CH19150_10M_QPSK_1RB5



B2_CH19150_10M_16-QAM_1RB5



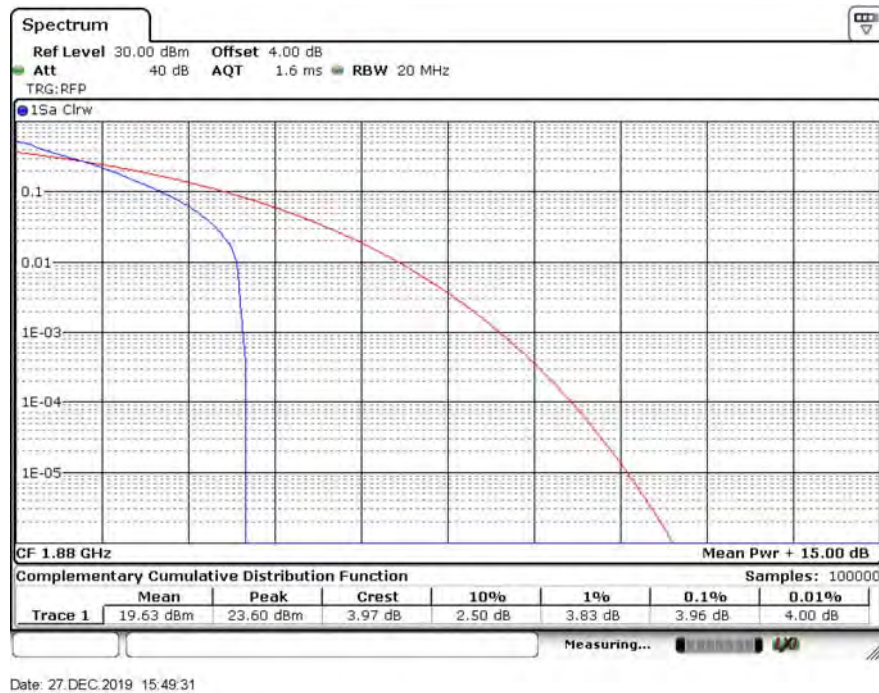
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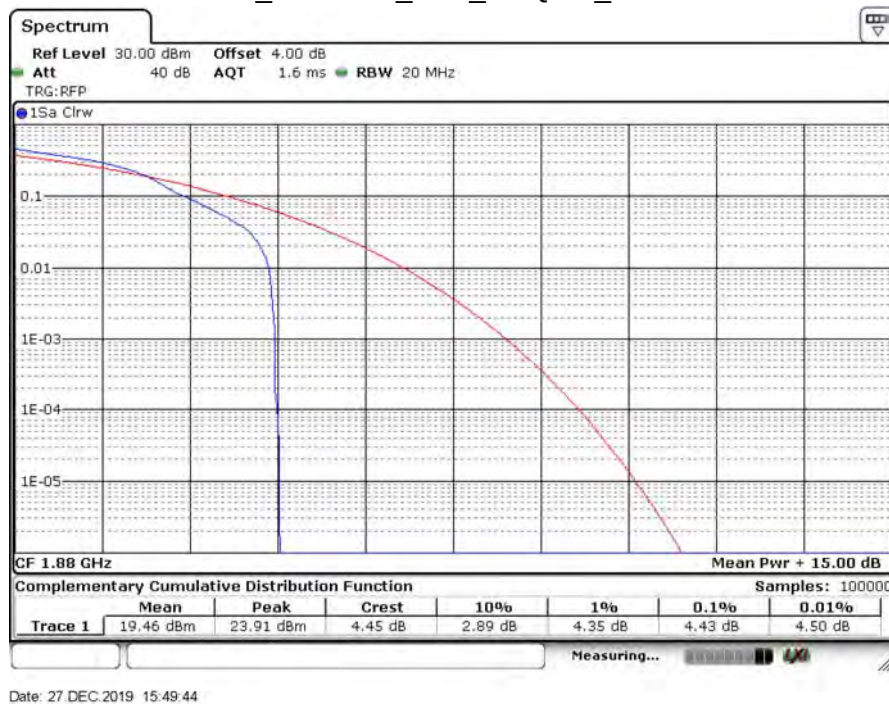
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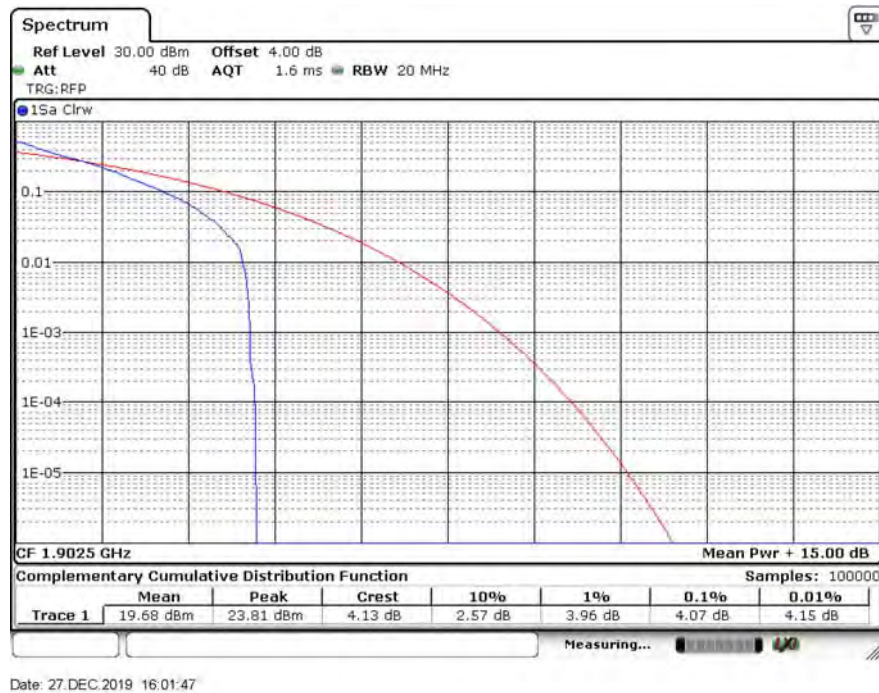
B2_CH18900_15M_QPSK_1RB0



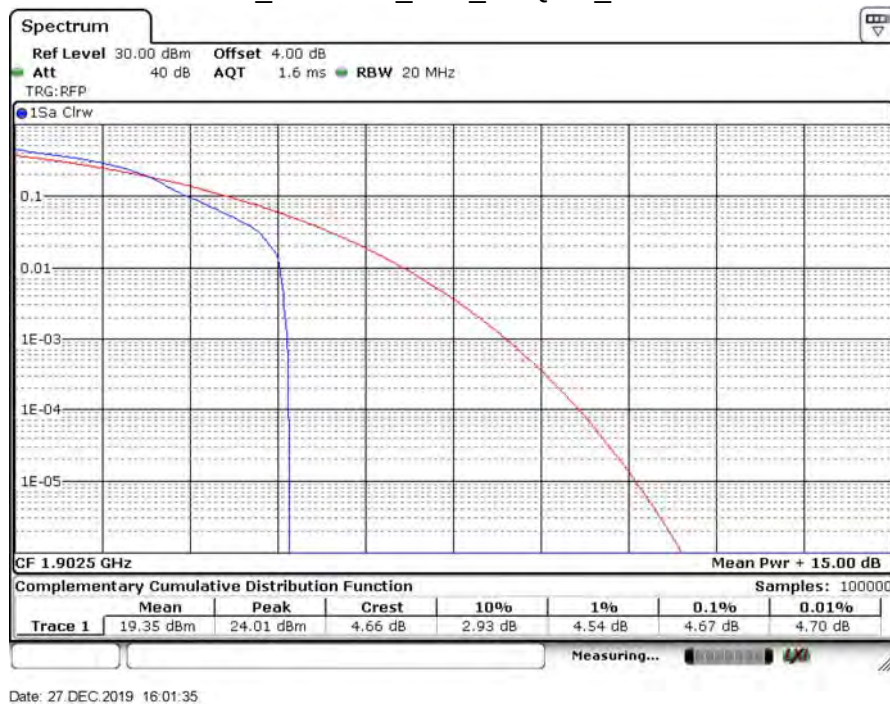
B2_CH18900_15M_16-QAM_1RB0



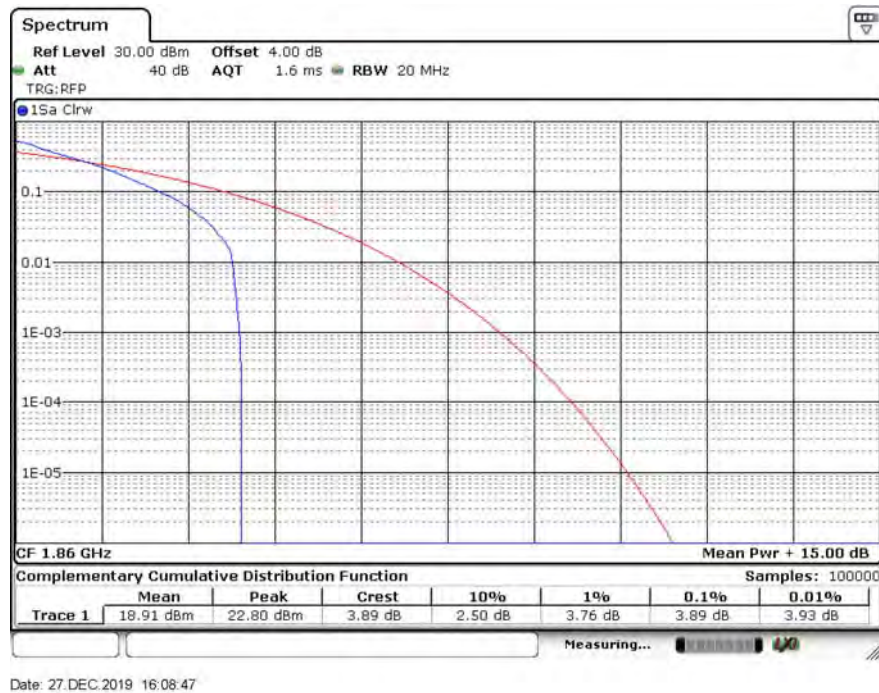
B2_CH19125_15M_QPSK_1RB5



B2_CH19125_15M_16-QAM_1RB5



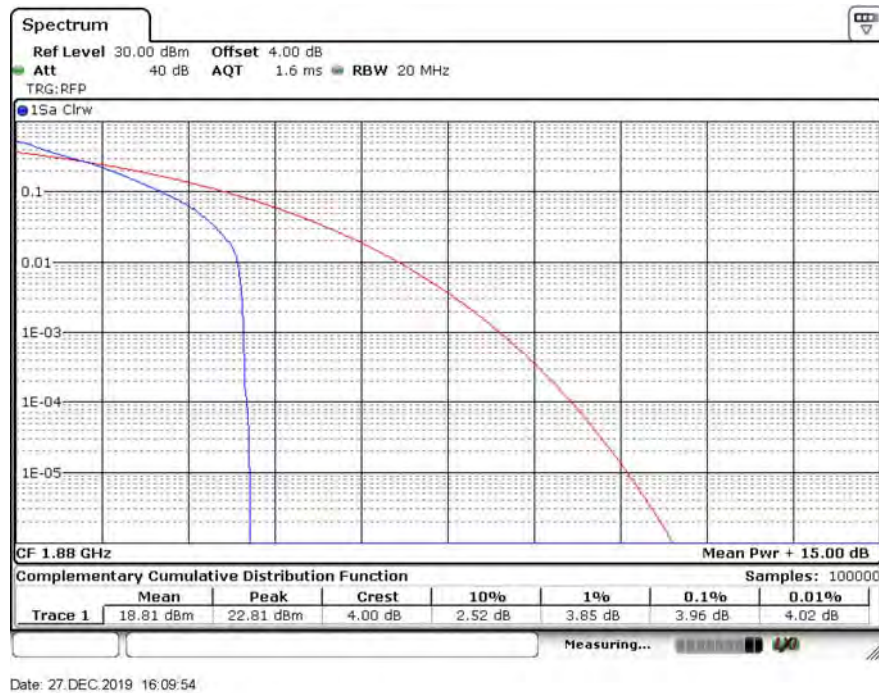
B2_CH18700_20M_QPSK_1RB0



B2_CH18700_20M_16-QAM_1RB0



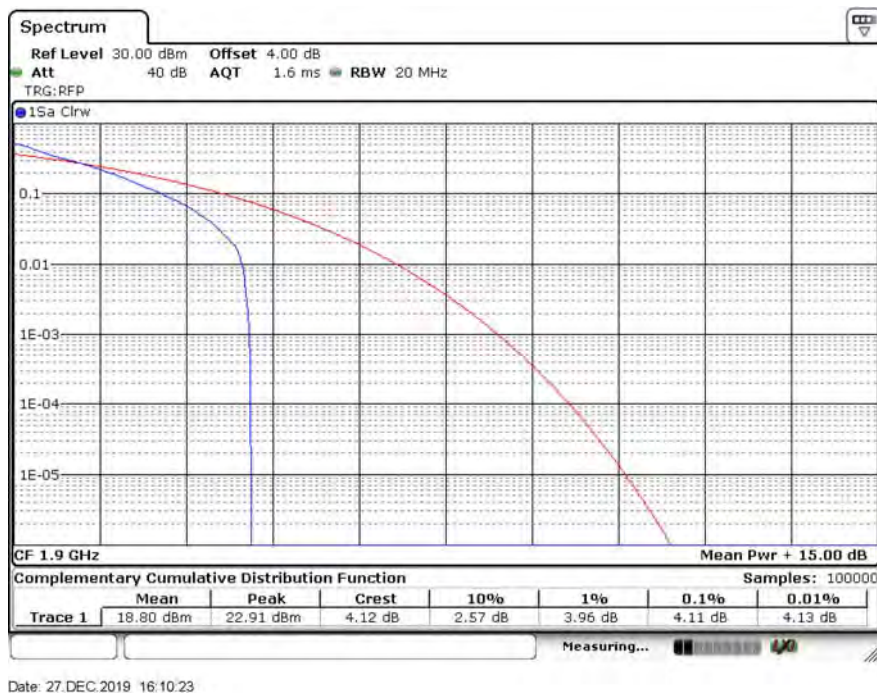
B2_CH18900_20M_QPSK_1RB0



B2_CH18900_20M_16-QAM_1RB0



B2_CH19100_20M_QPSK_1RB5



B2_CH19100_20M_16-QAM_1RB5

