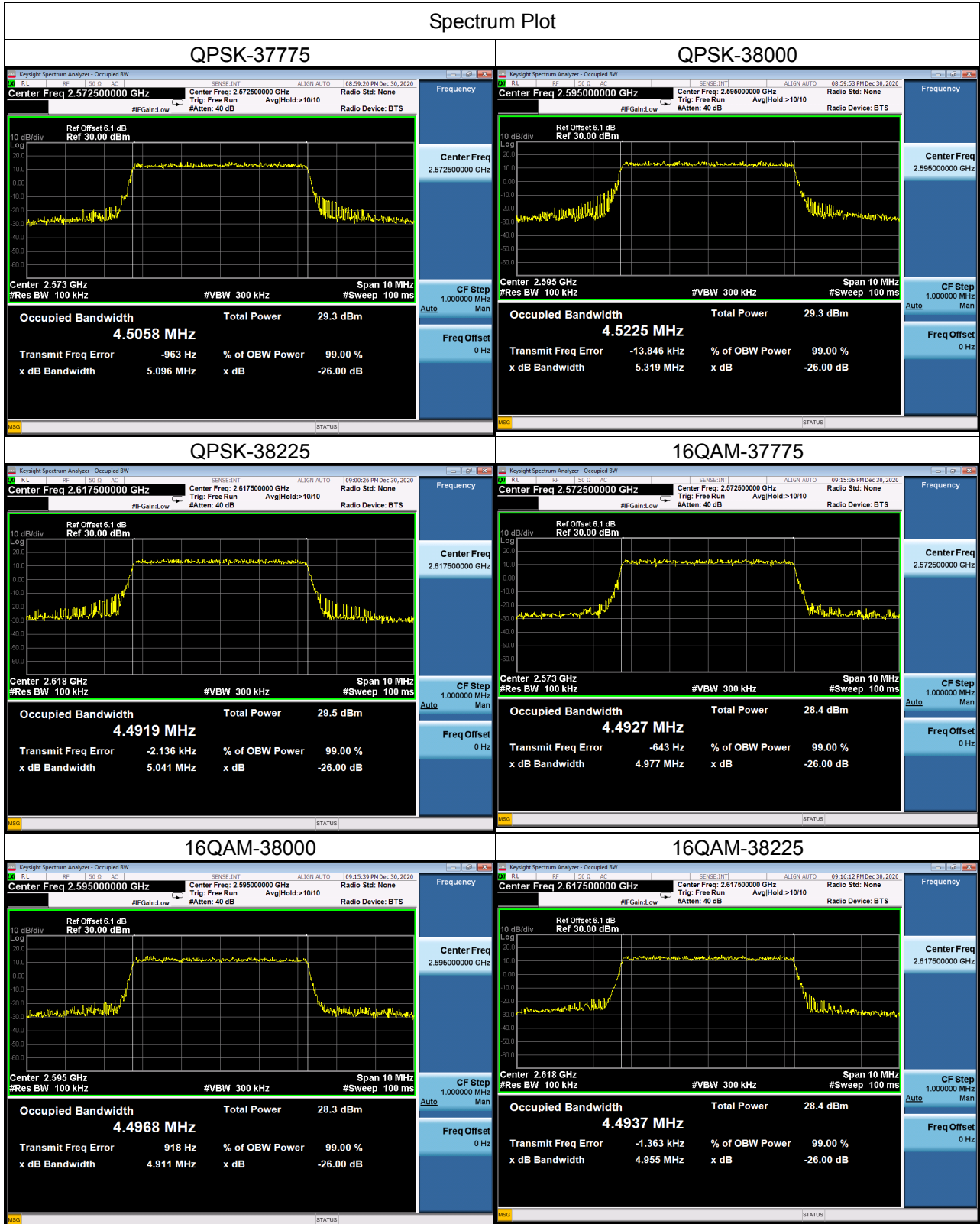
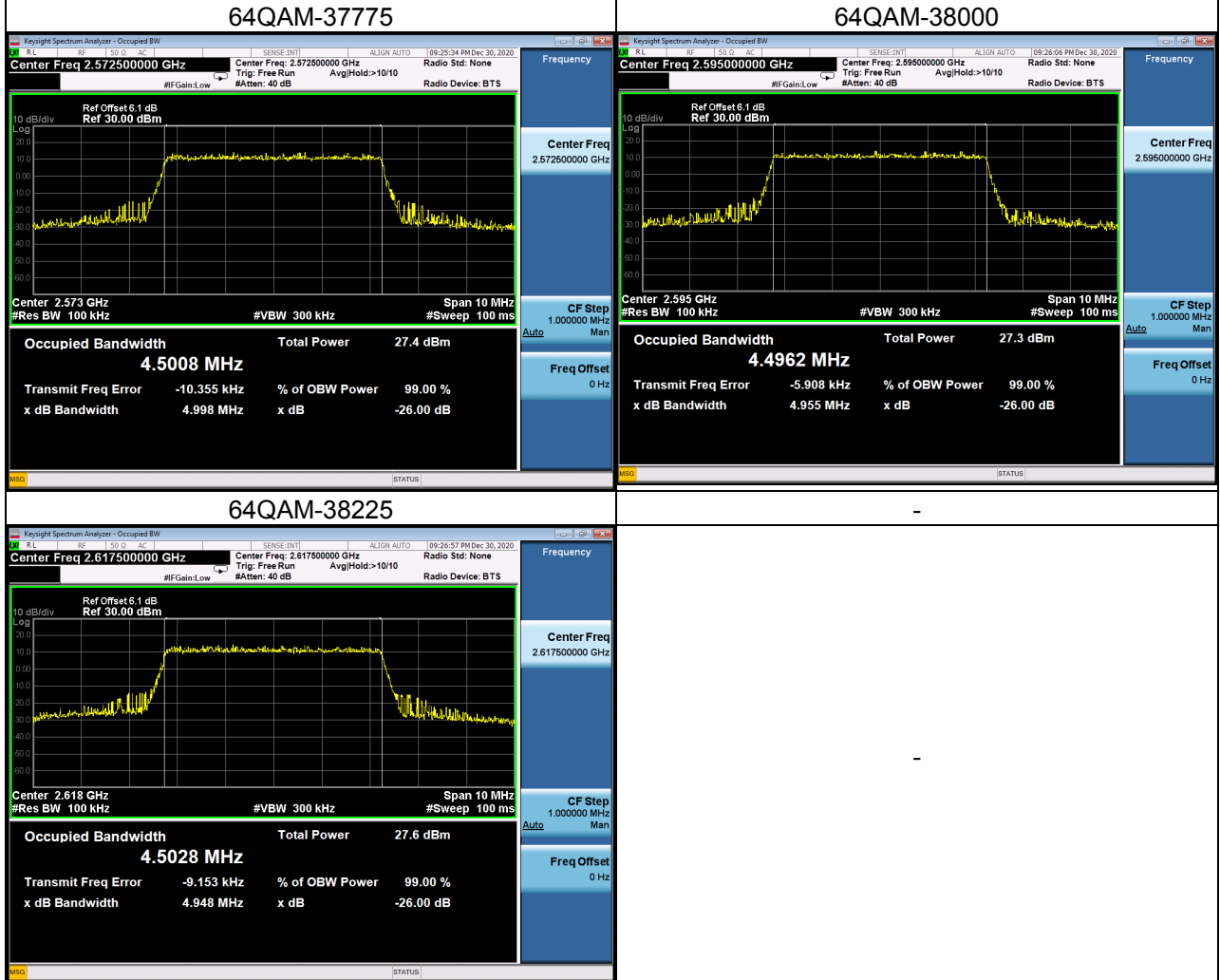


## Spectrum Plot

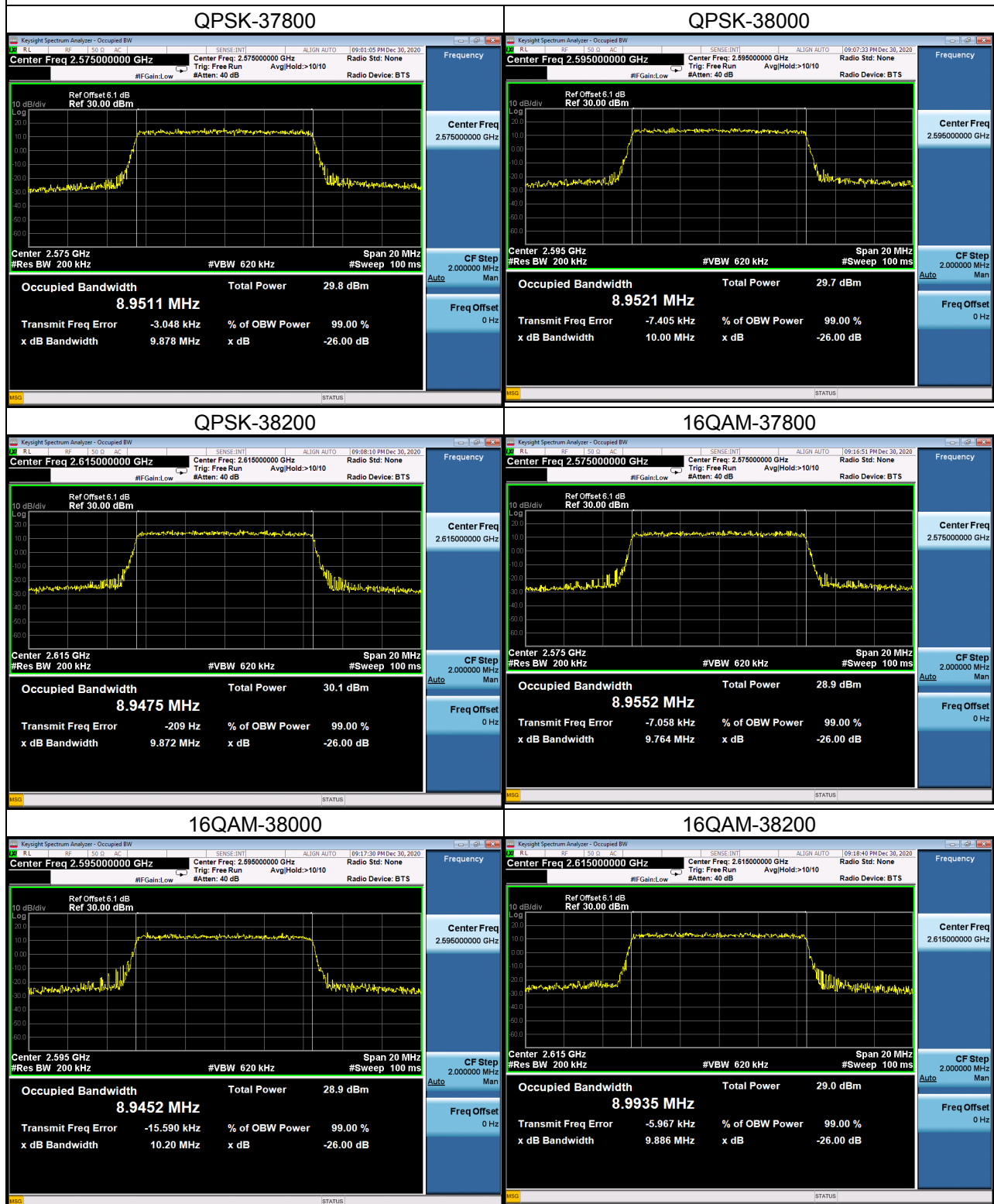


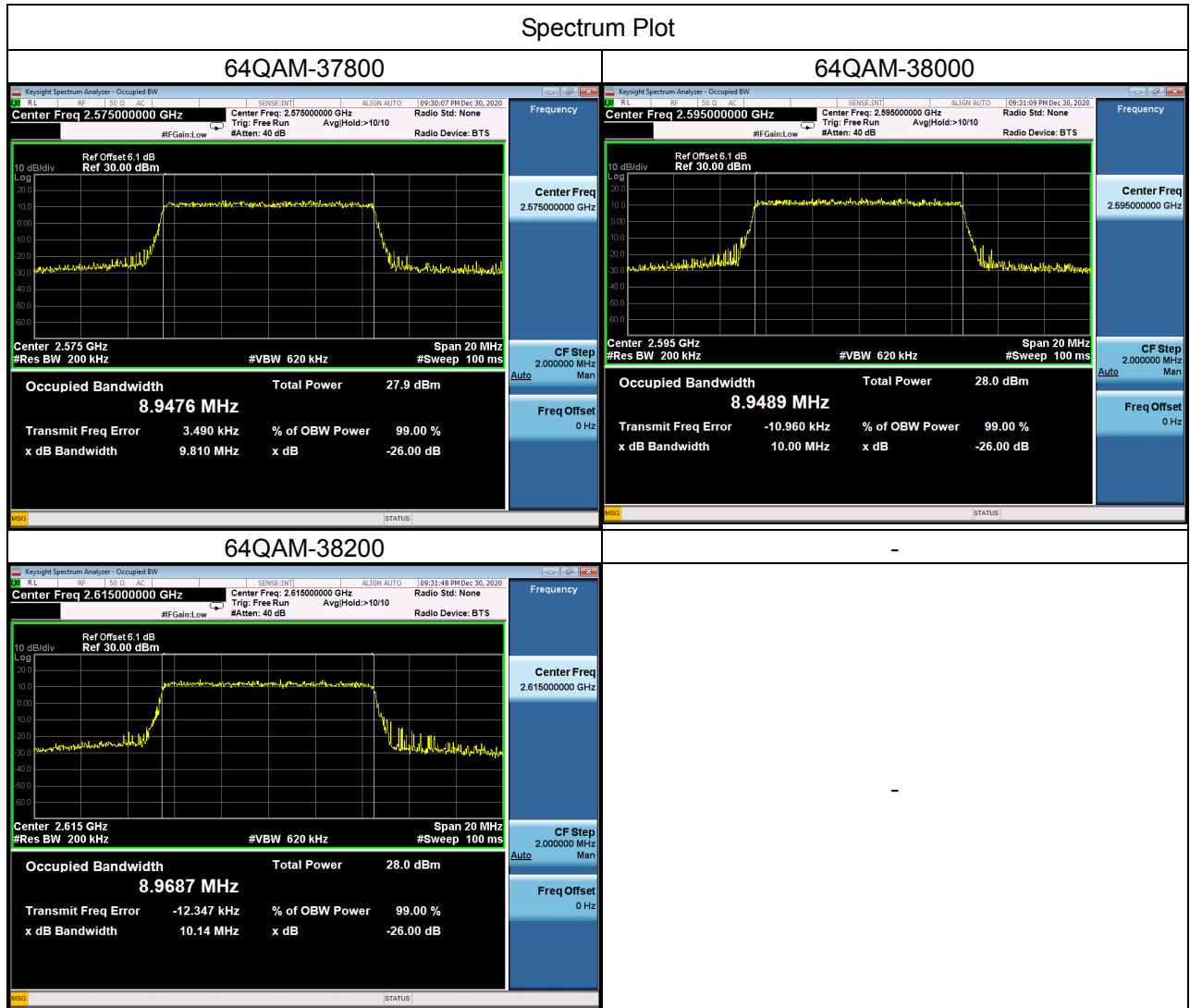
## Spectrum Plot



LTE Band 38_10M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
37800	2575	8.9511	37800	2575	9.878
38000	2595	8.9521	38000	2595	10.00
38200	2615	8.9475	38200	2615	9.872
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
37800	2575	8.9552	37800	2575	9.764
38000	2595	8.9452	38000	2595	10.20
38200	2615	8.9935	38200	2615	9.886
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
37800	2575	8.9476	37800	2575	9.810
38000	2595	8.9489	38000	2595	10.00
38200	2615	8.9687	38200	2615	10.14

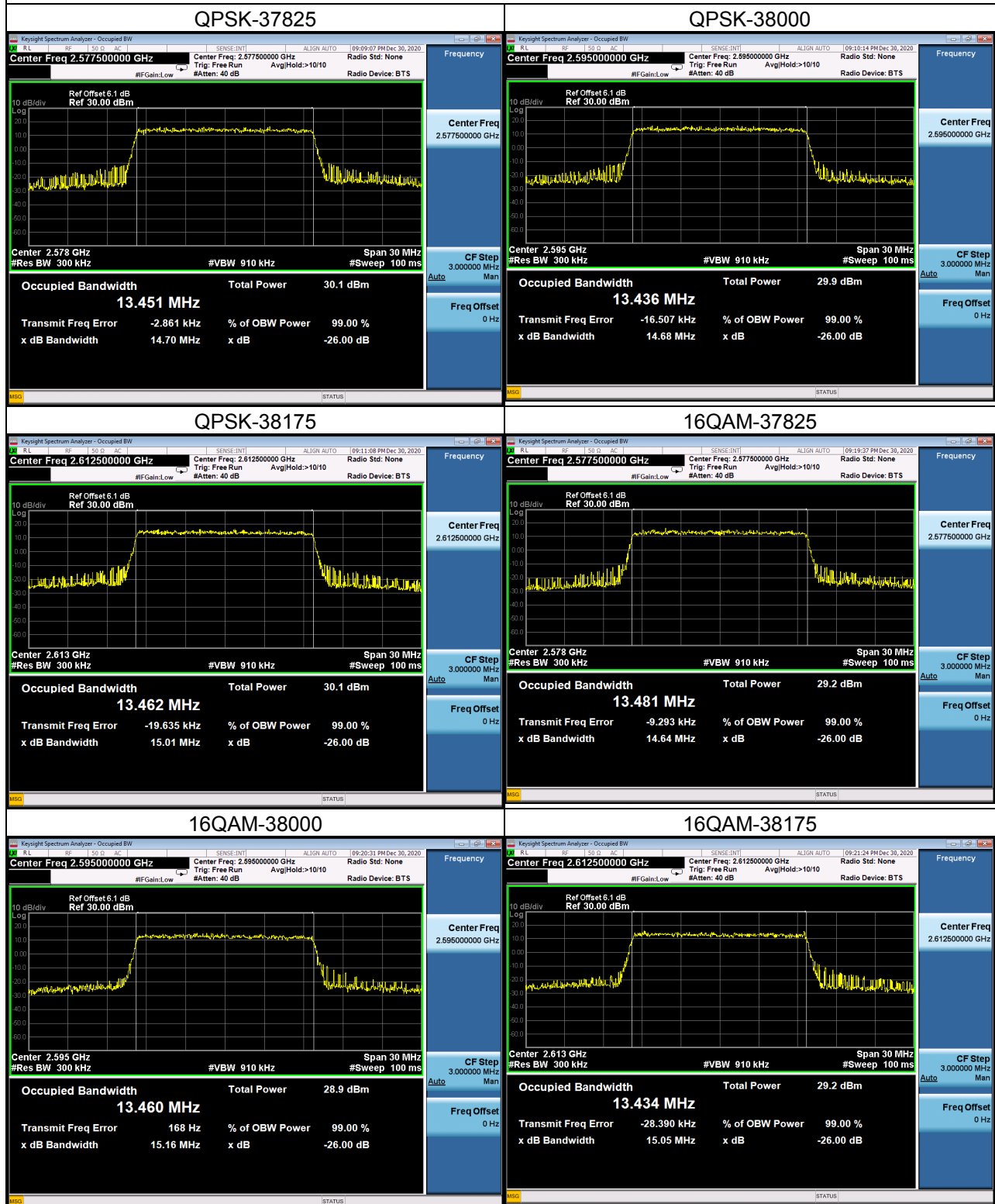
## Spectrum Plot

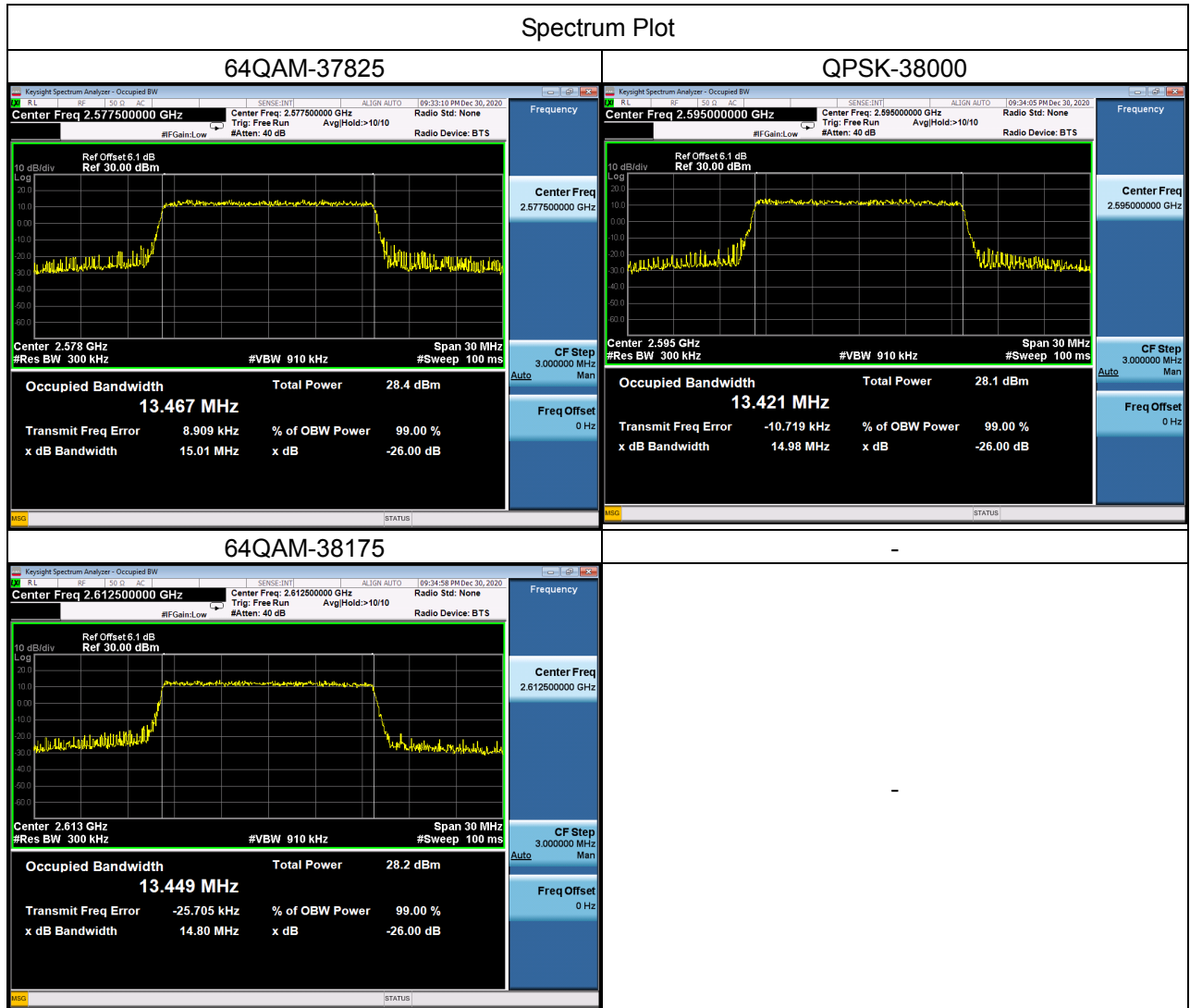




LTE Band 38_15M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
37825	2577.5	13.451	37825	2577.5	14.70
38000	2595	13.436	38000	2595	14.68
38175	2612.5	13.462	38175	2612.5	15.01
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
37825	2577.5	13.481	37825	2577.5	14.64
38000	2595	13.460	38000	2595	15.16
38175	2612.5	13.434	38175	2612.5	15.05
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
37825	2577.5	13.467	37825	2577.5	15.01
38000	2595	13.421	38000	2595	14.98
38175	2612.5	13.449	38175	2612.5	14.80

## Spectrum Plot

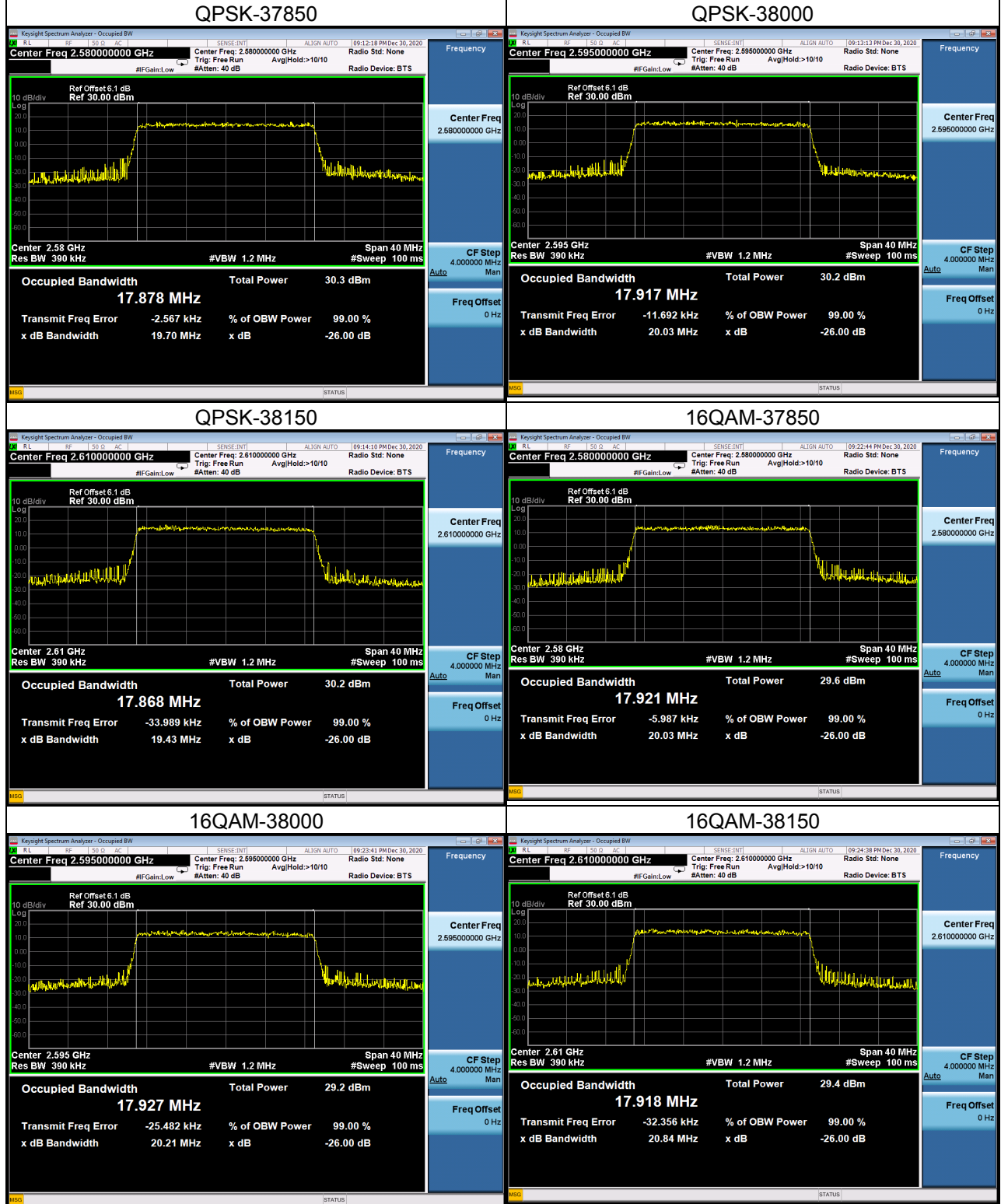




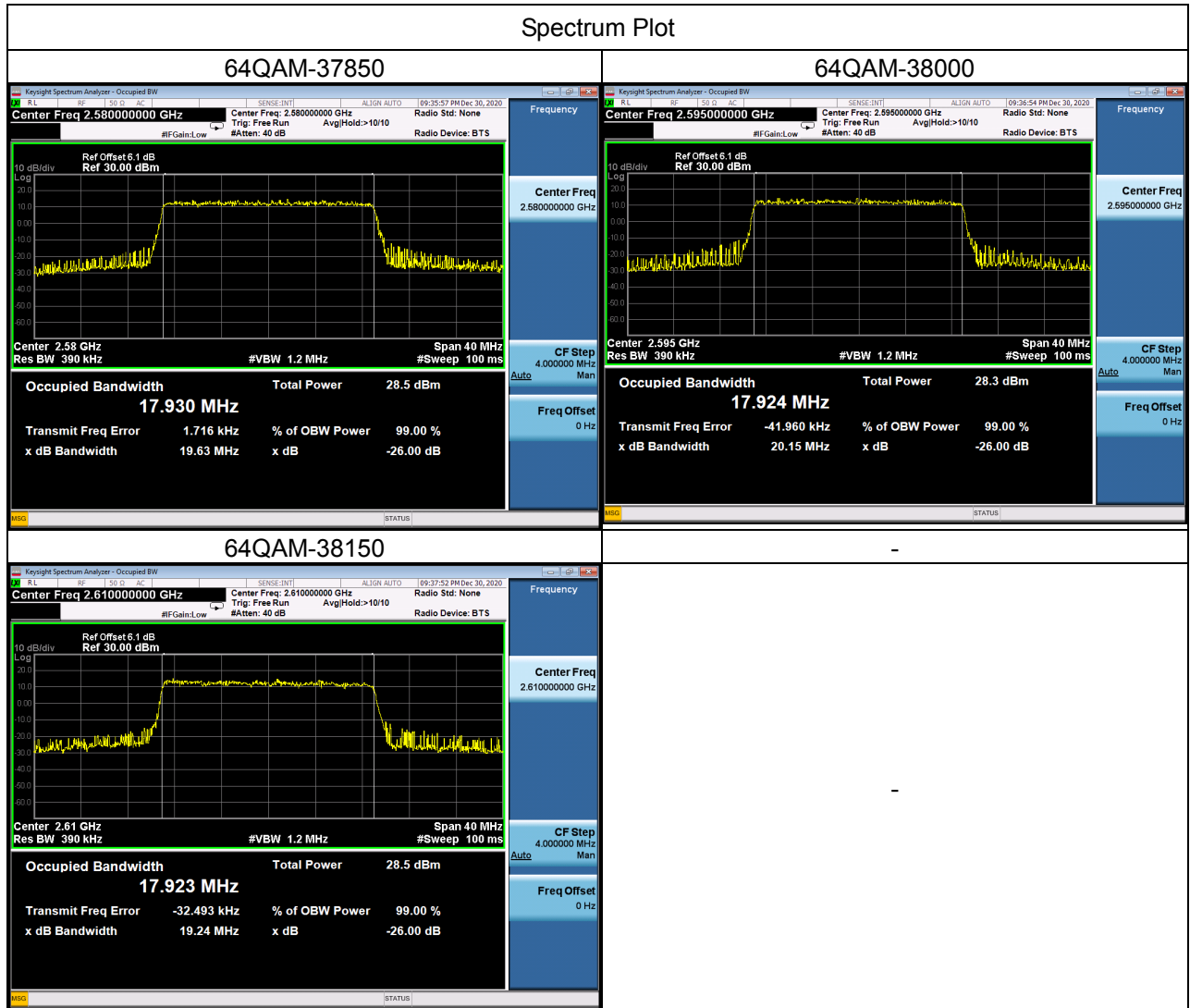


LTE Band 38_20M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
37850	2580	17.878	37850	2580	19.70
38000	2595	17.917	38000	2595	20.03
38150	2610	17.868	38150	2610	19.43
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
37850	2580	17.921	37850	2580	20.03
38000	2595	17.927	38000	2595	20.21
38150	2610	17.918	38150	2610	20.84
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
37850	2580	17.930	37850	2580	19.63
38000	2595	17.924	38000	2595	20.15
38150	2610	17.923	38150	2610	19.24

## Spectrum Plot

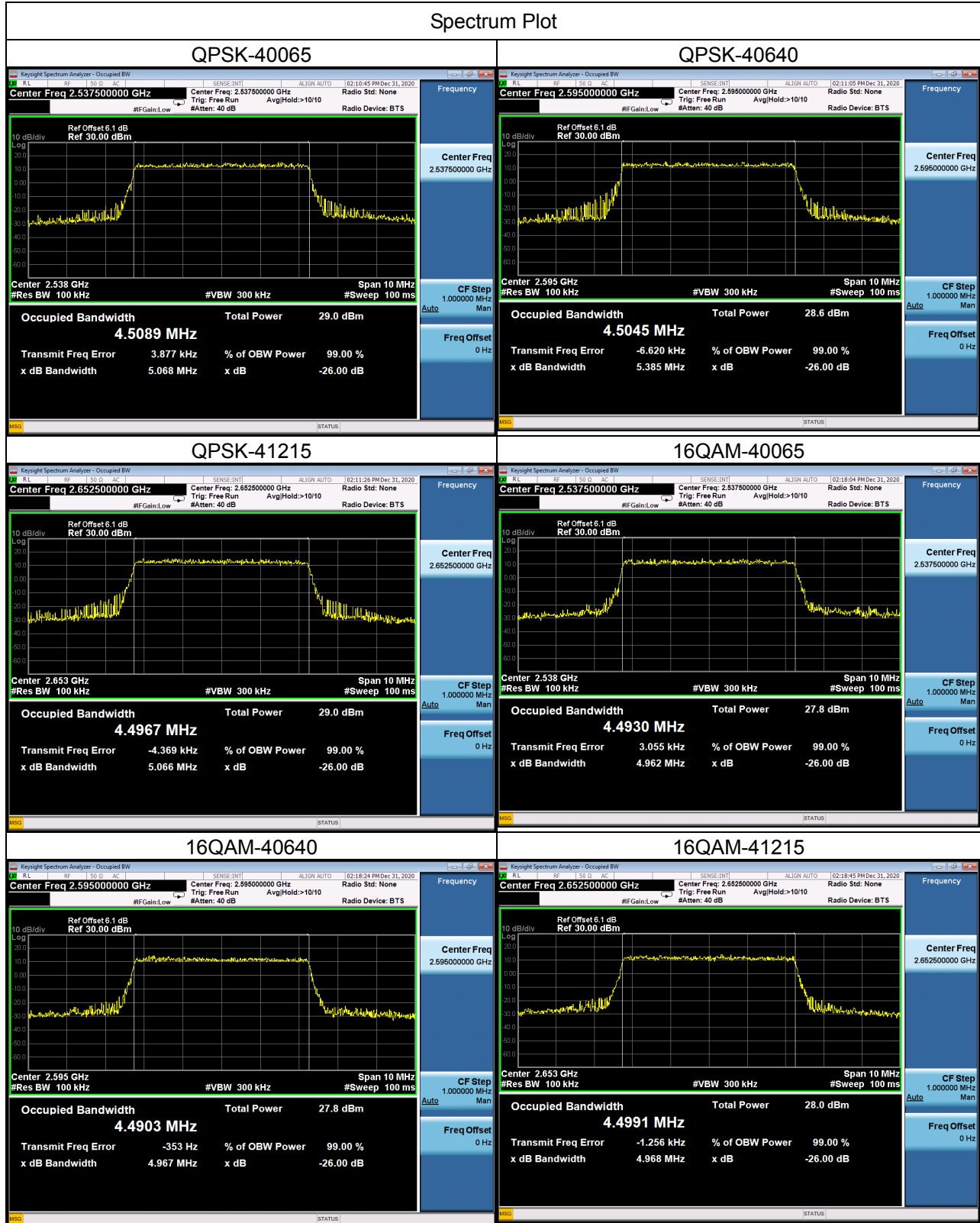


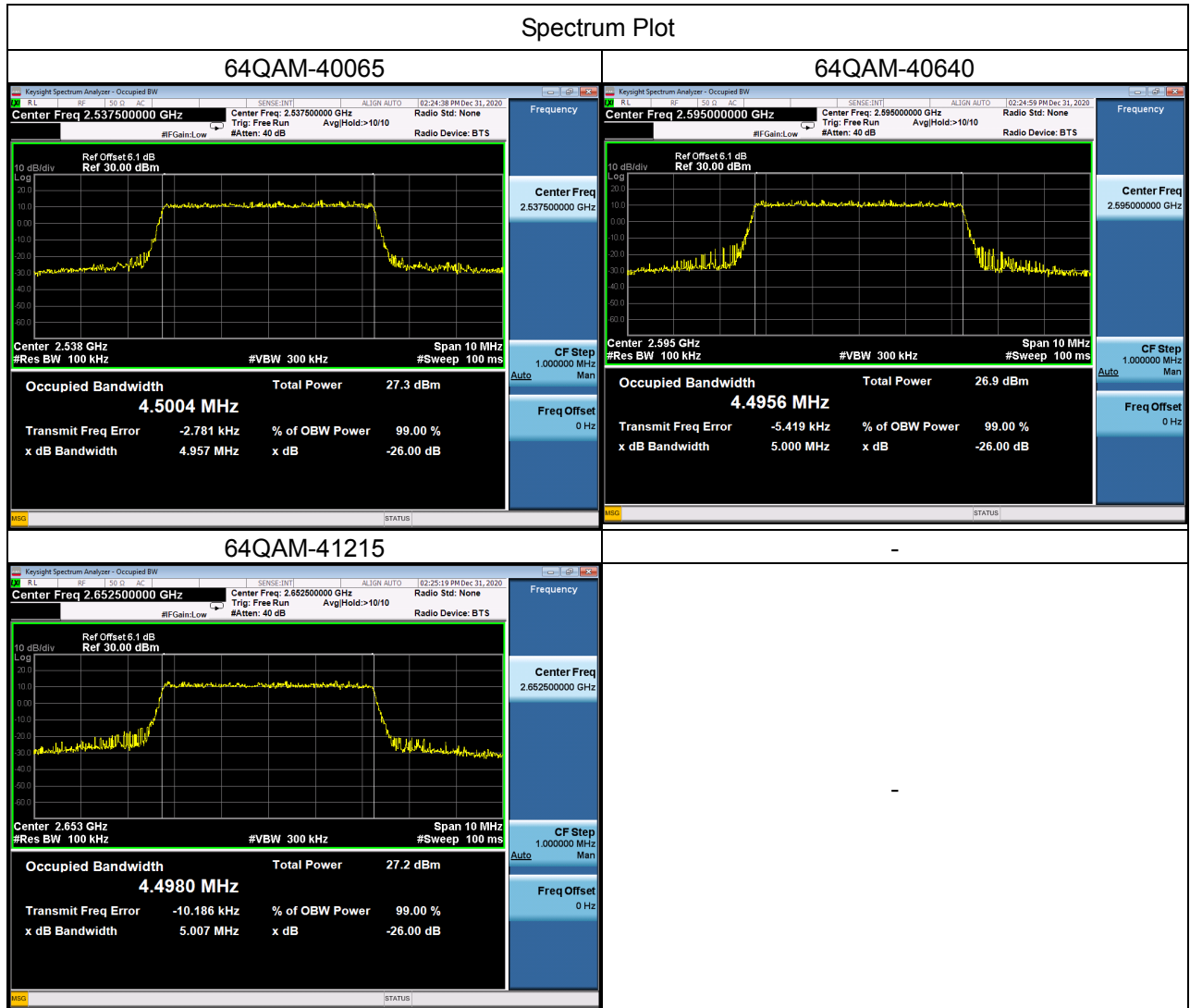
## Spectrum Plot



LTE Band 41_5M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
40065	2537.5	4.5089	40065	2537.5	5.068
40640	2595	4.5045	40640	2595	5.385
41215	2652.5	4.4967	41215	2652.5	5.066
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
40065	2537.5	4.4930	40065	2537.5	4.962
40640	2595	4.4903	40640	2595	4.967
41215	2652.5	4.4991	41215	2652.5	4.968
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
40065	2537.5	4.5004	40065	2537.5	4.957
40640	2595	4.4956	40640	2595	5.000
41215	2652.5	4.4980	41215	2652.5	5.007

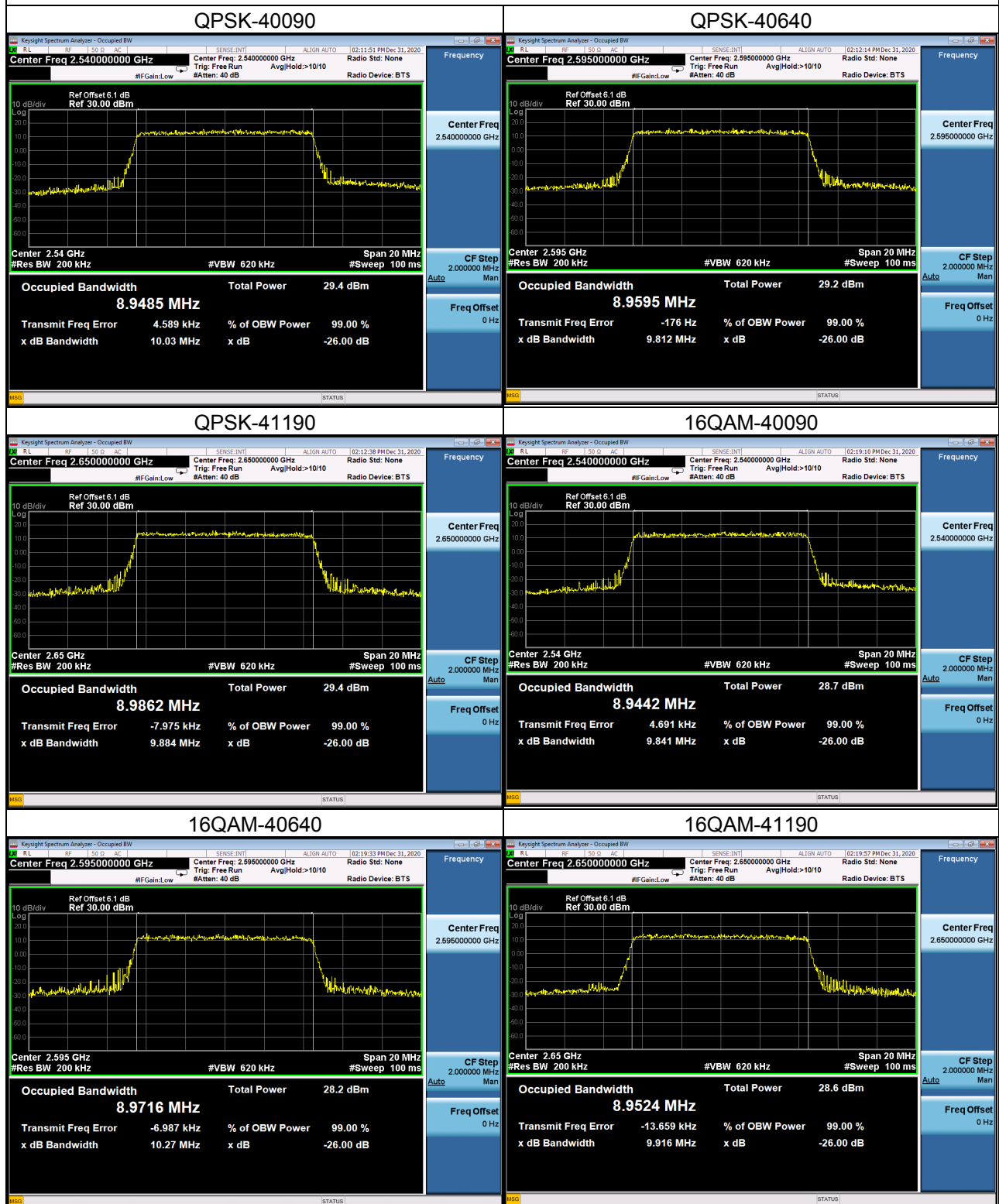
## Spectrum Plot



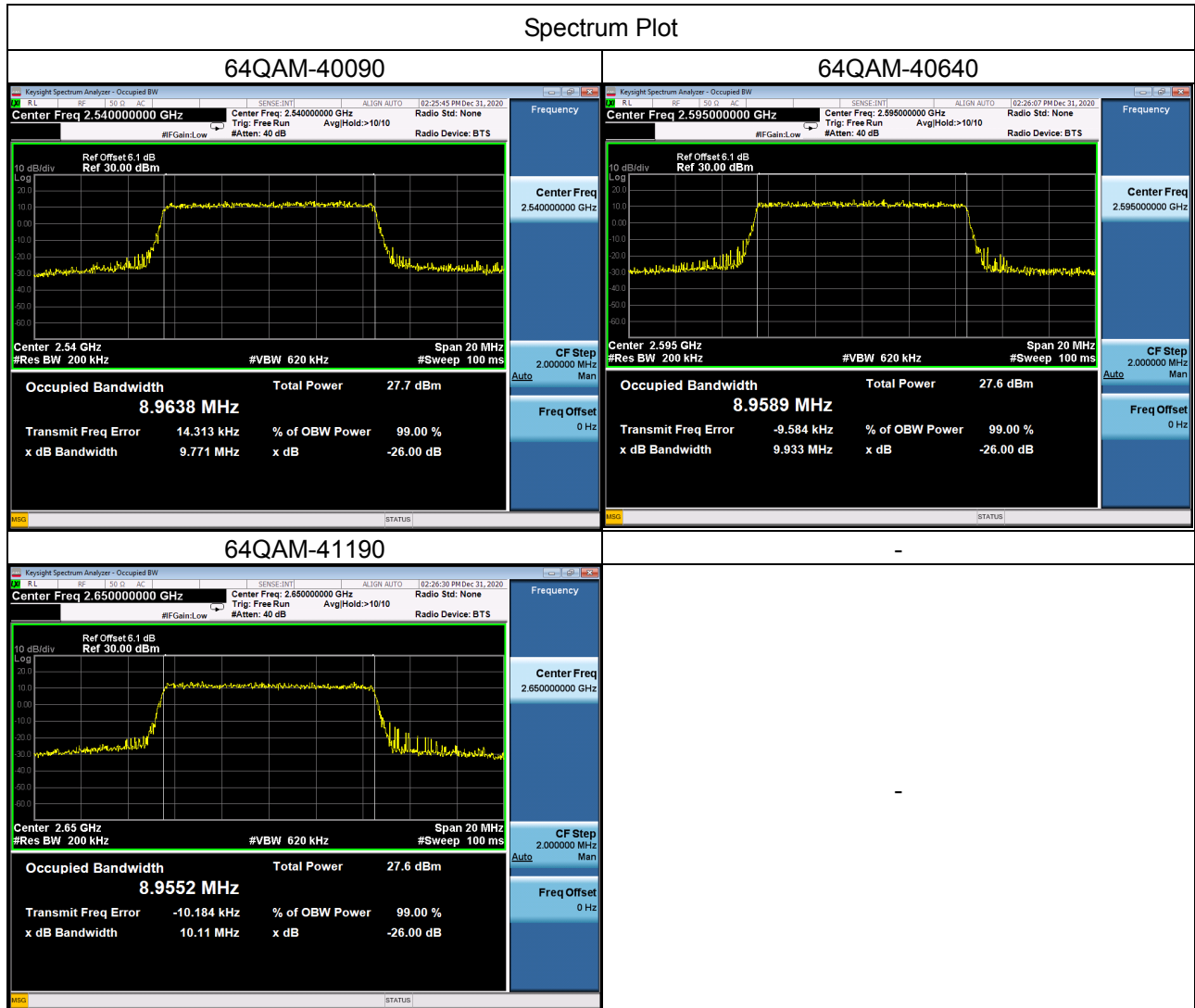


LTE Band 41_10M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
40090	2540	8.9485	40090	2540	10.03
40640	2595	8.9595	40640	2595	9.812
41190	2650	8.9862	41190	2650	9.884
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
40090	2540	8.9442	40090	2540	9.841
40640	2595	8.9716	40640	2595	10.27
41190	2650	8.9524	41190	2650	9.916
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
40090	2540	8.9638	40090	2540	9.771
40640	2595	8.9589	40640	2595	9.933
41190	2650	8.9552	41190	2650	10.11

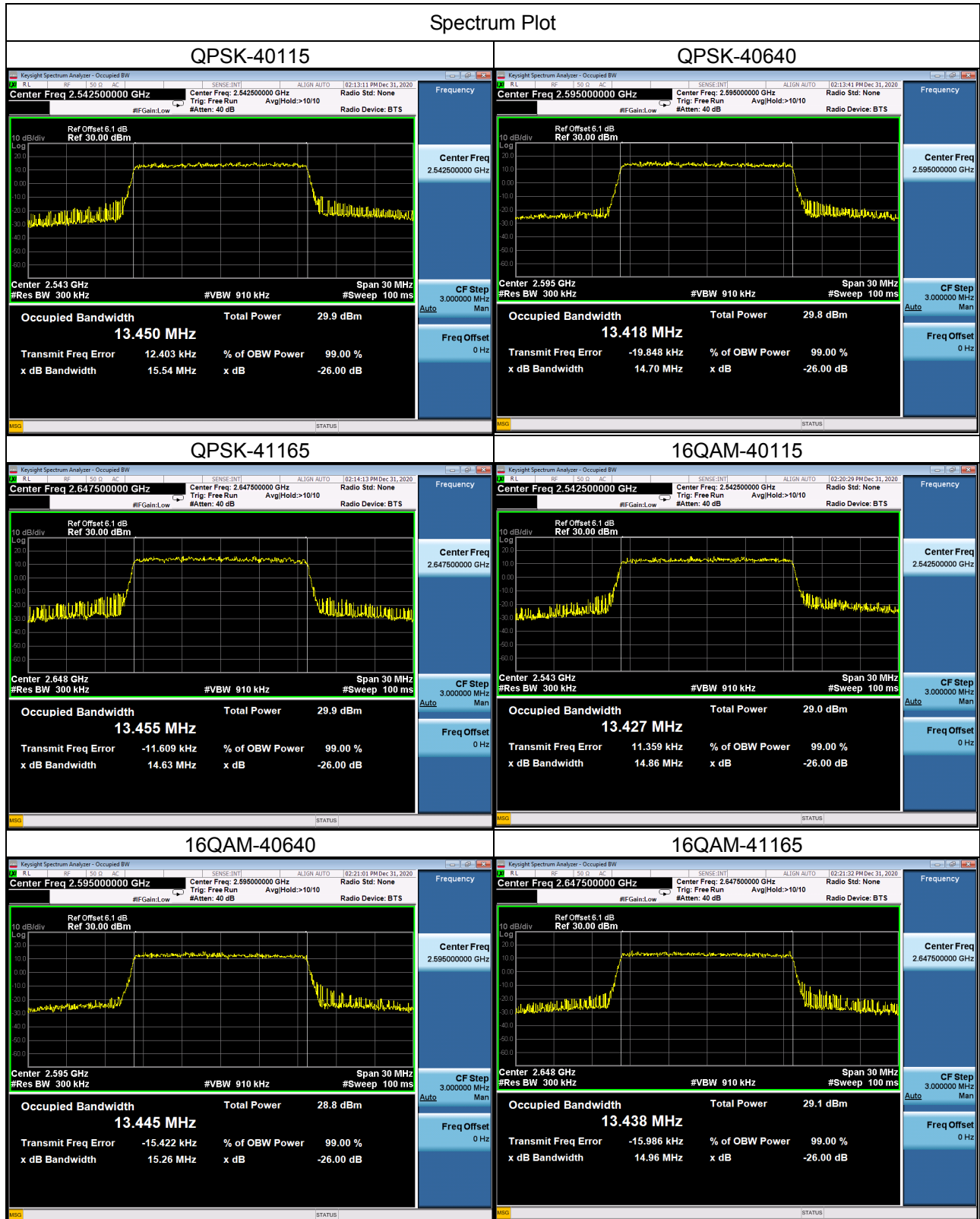
## Spectrum Plot

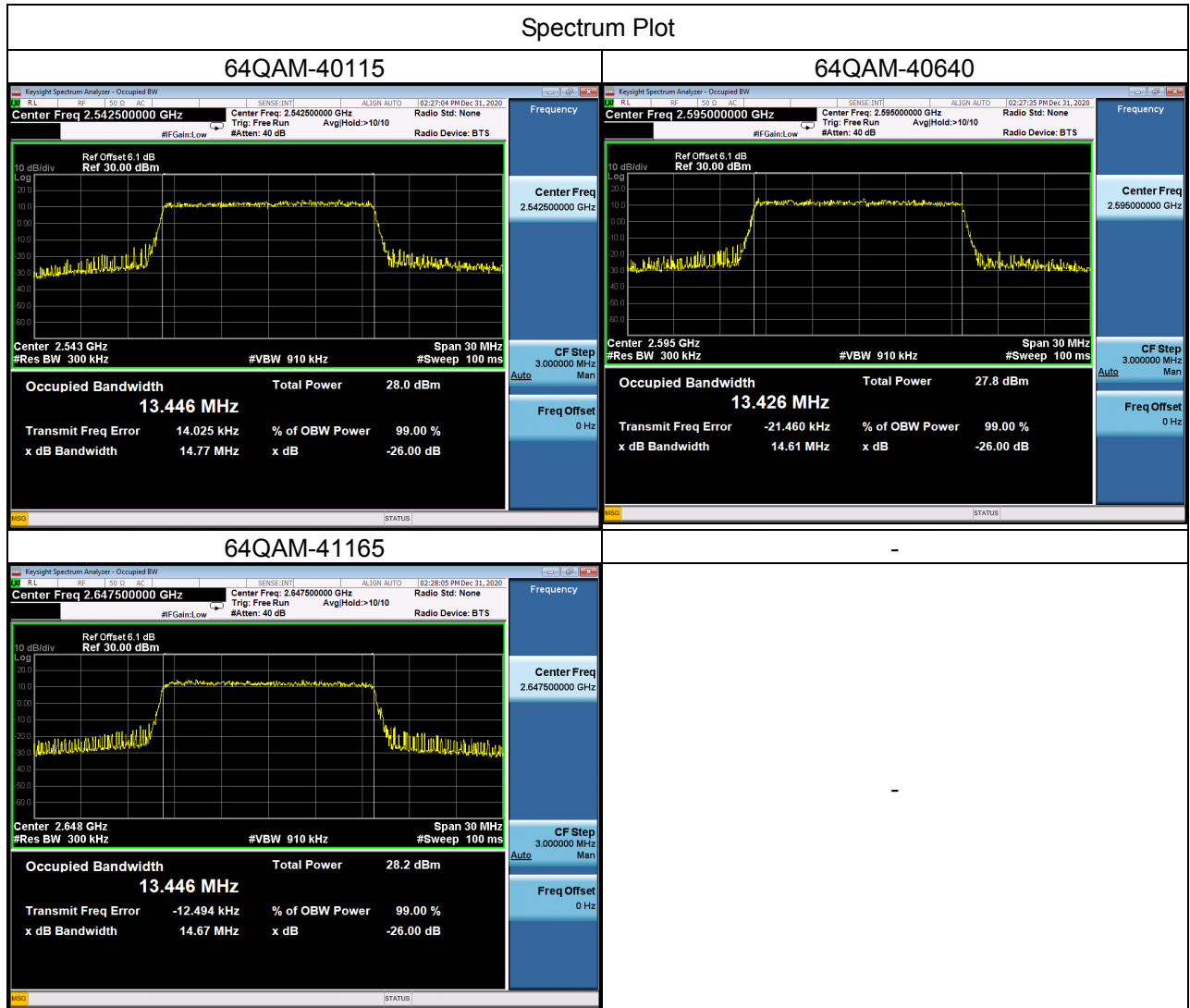




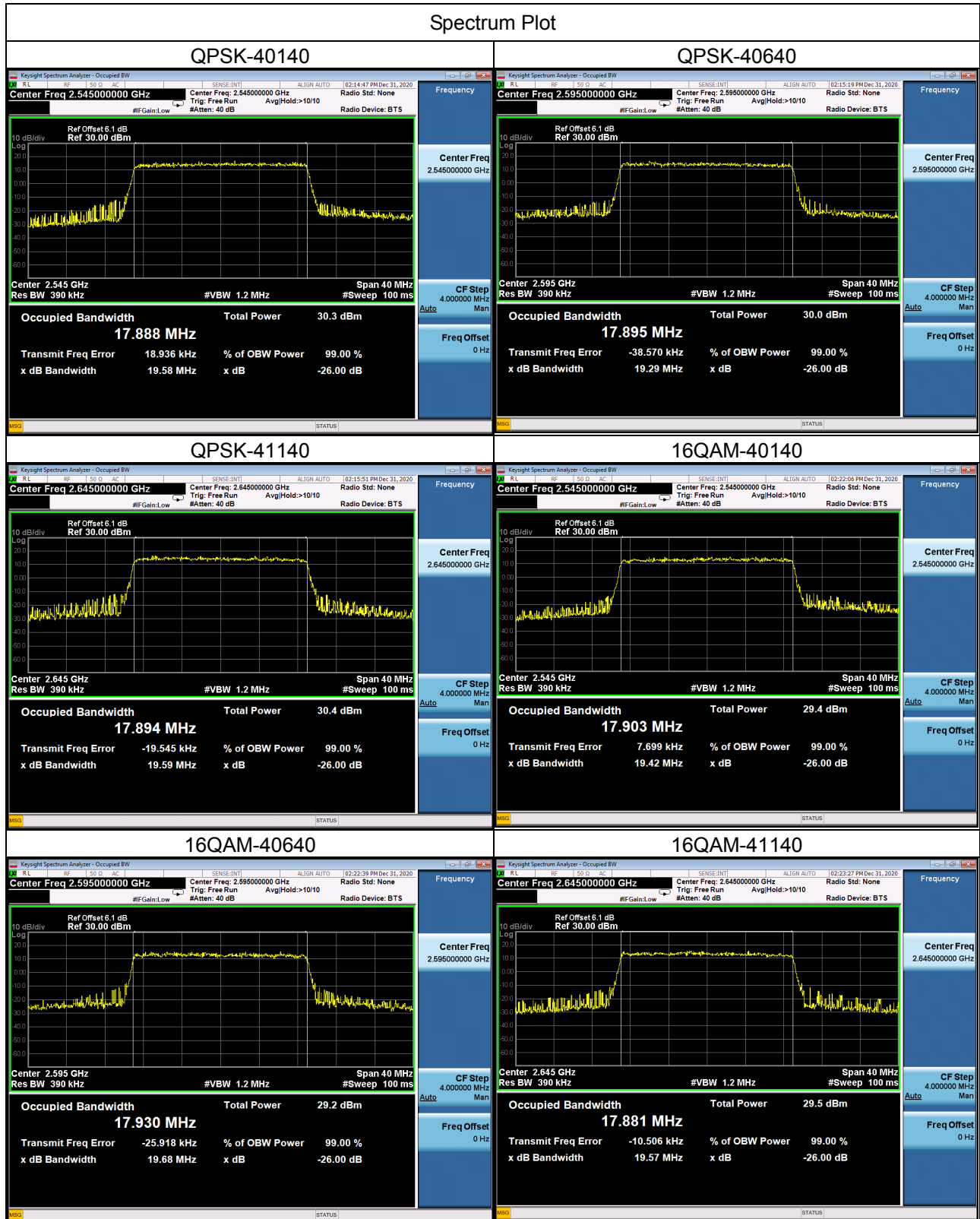


LTE Band 41_15M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
40115	2542.5	13.450	40115	2542.5	15.54
40640	2595	13.418	40640	2595	14.70
41165	2647.5	13.455	41165	2647.5	14.63
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
40115	2542.5	13.427	40115	2542.5	14.86
40640	2595	13.445	40640	2595	15.26
41165	2647.5	13.438	41165	2647.5	14.96
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
40115	2542.5	13.446	40115	2542.5	14.77
40640	2595	13.426	40640	2595	14.61
41165	2647.5	13.446	41165	2647.5	14.67

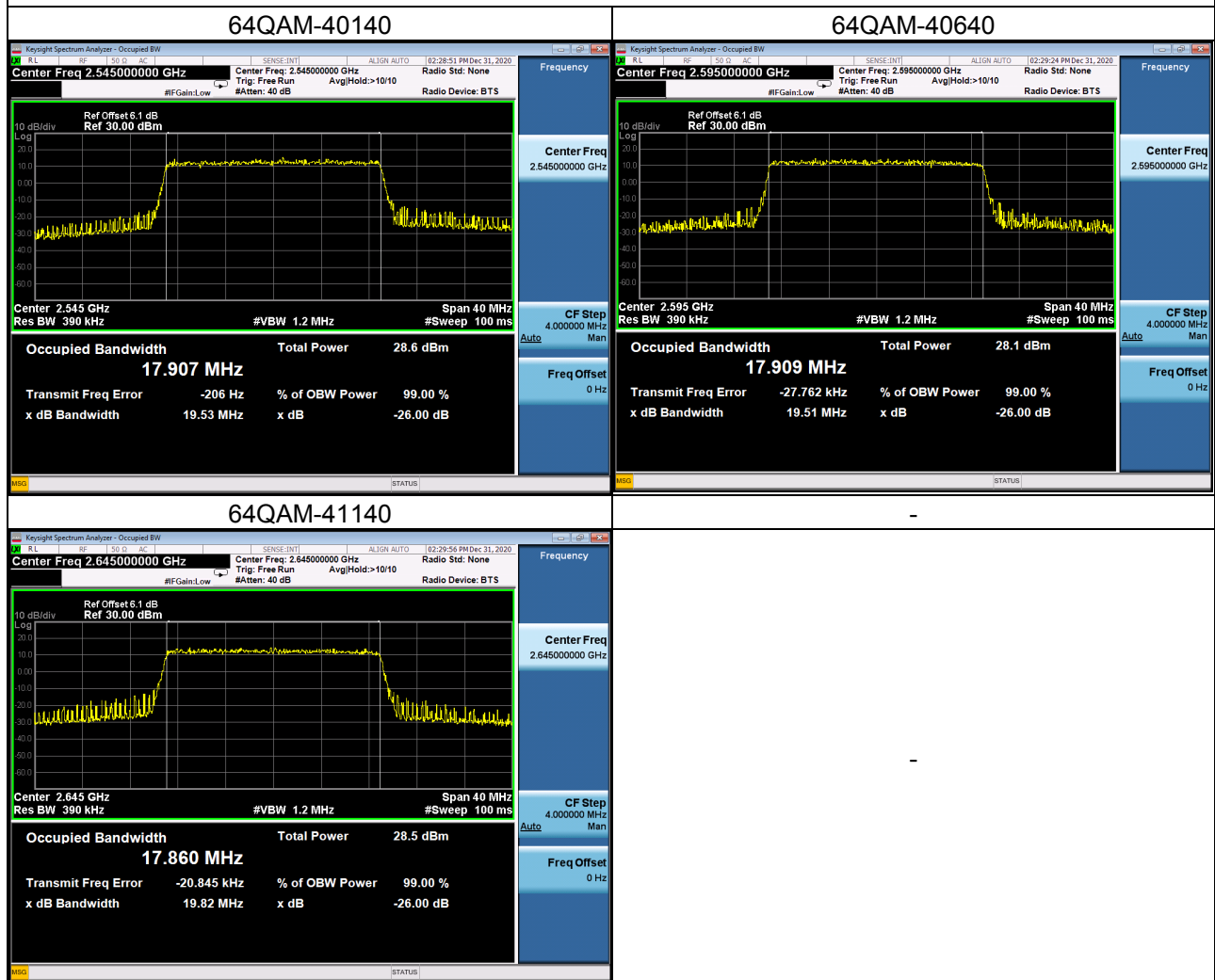




LTE Band 41_20M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
40140	2545	17.888	40140	2545	19.58
40640	2595	17.895	40640	2595	19.29
41140	2645	17.894	41140	2645	19.59
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
40140	2545	17.903	40140	2545	19.42
40640	2595	17.930	40640	2595	19.68
41140	2645	17.881	41140	2645	19.57
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
40140	2545	17.907	40140	2545	19.53
40640	2595	17.909	40640	2595	19.51
41140	2645	17.860	41140	2645	19.82



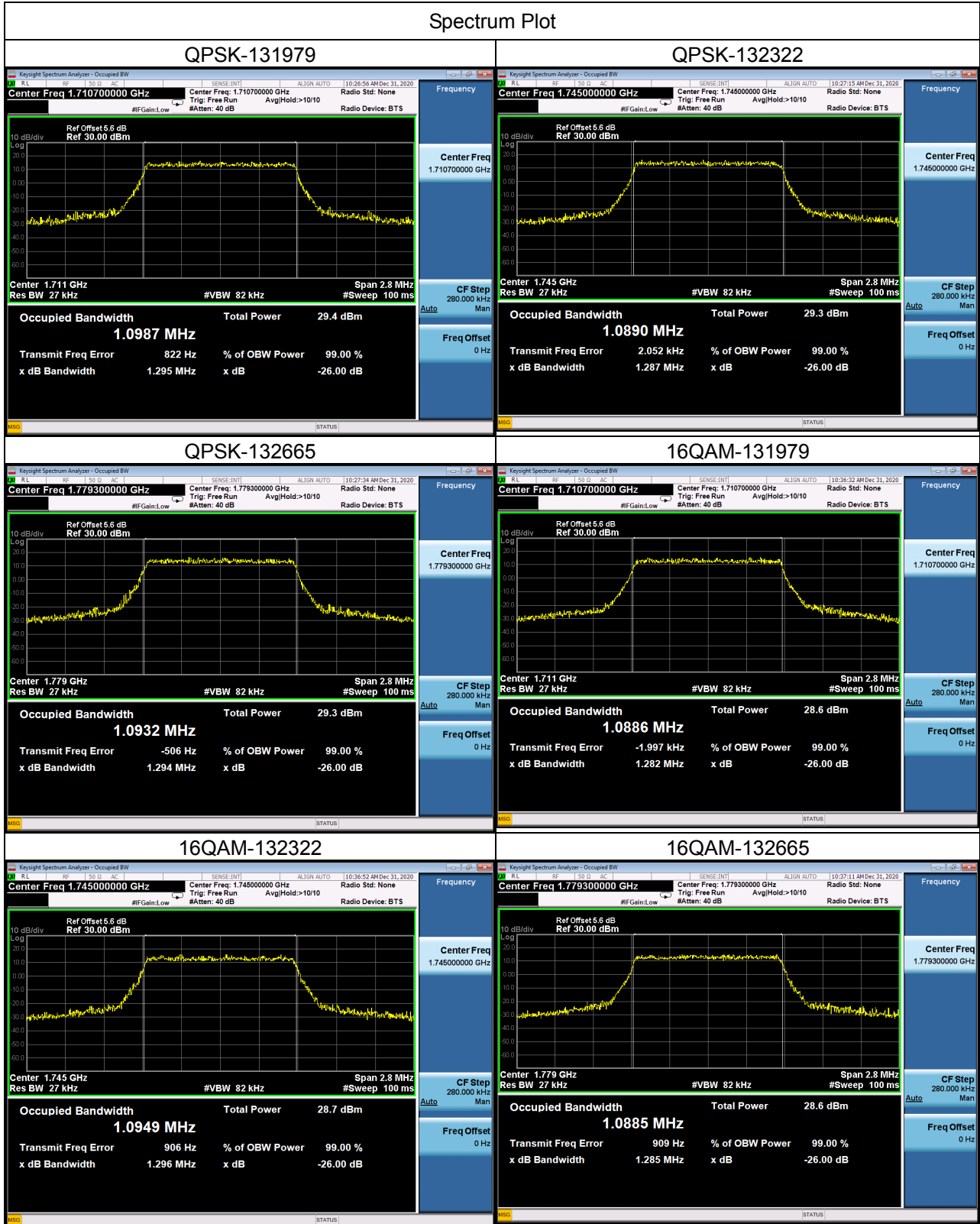
## Spectrum Plot



LTE Band 66_1.4M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
131979	1710.7	1.0987	131979	1710.7	1.295
132322	1745	1.0890	132322	1745	1.287
132665	1779.3	1.0932	132665	1779.3	1.294
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
131979	1710.7	1.0886	131979	1710.7	1.282
132322	1745	1.0949	132322	1745	1.296
132665	1779.3	1.0885	132665	1779.3	1.285
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
131979	1710.7	1.0866	131979	1710.7	1.272
132322	1745	1.0856	132322	1745	1.263
132665	1779.3	1.0887	132665	1779.3	1.315



## Spectrum Plot





LTE Band 66_3M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
131987	1711.5	2.6976	131987	1711.5	3.004
132322	1745	2.7031	132322	1745	2.990
132657	1778.5	2.6976	132657	1778.5	2.974
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
131987	1711.5	2.6999	131987	1711.5	2.992
132322	1745	2.6961	132322	1745	2.981
132657	1778.5	2.6962	132657	1778.5	2.998
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
131987	1711.5	2.7016	131987	1711.5	2.978
132322	1745	2.7010	132322	1745	2.965
132657	1778.5	2.6986	132657	1778.5	2.962