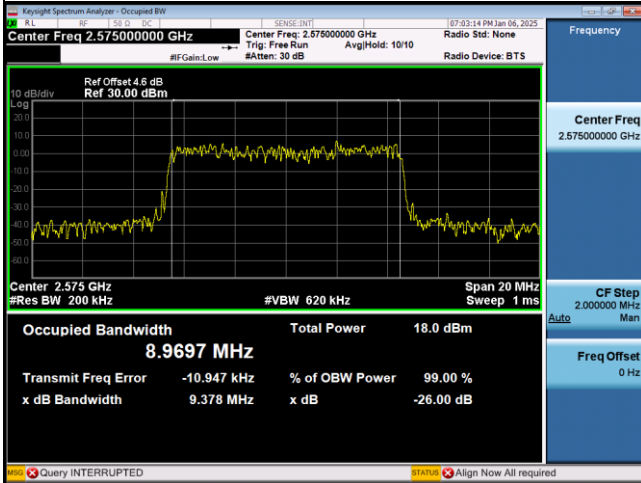
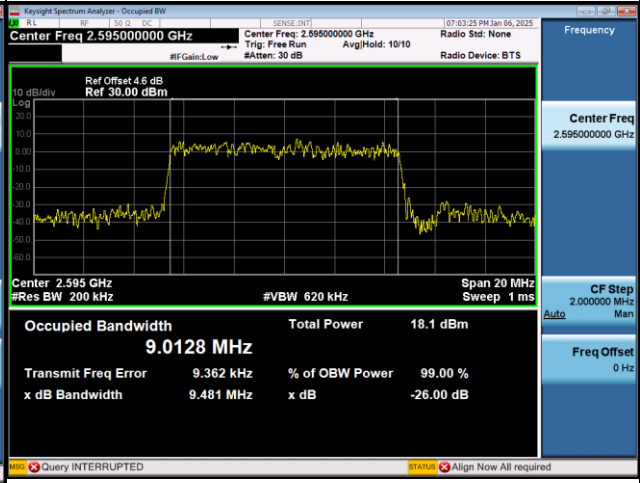


Spectrum Plot

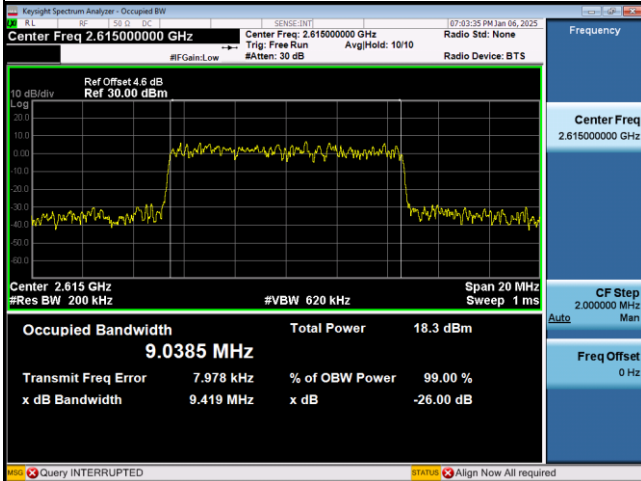
QPSK-37800



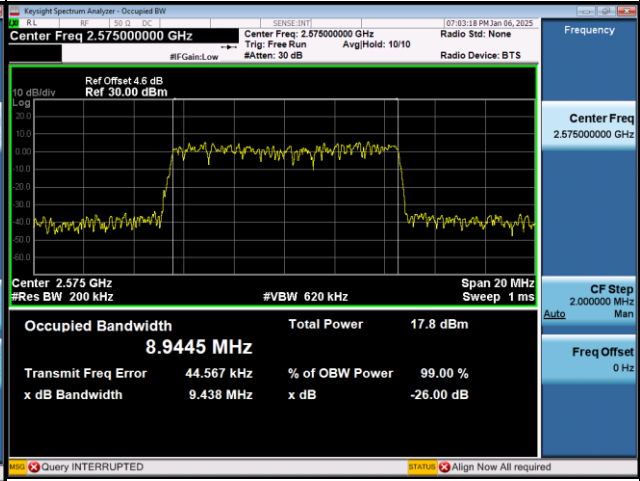
QPSK-38000



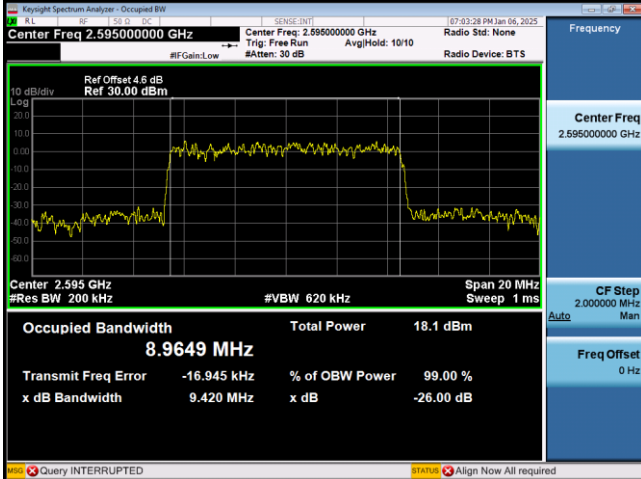
QPSK-38200



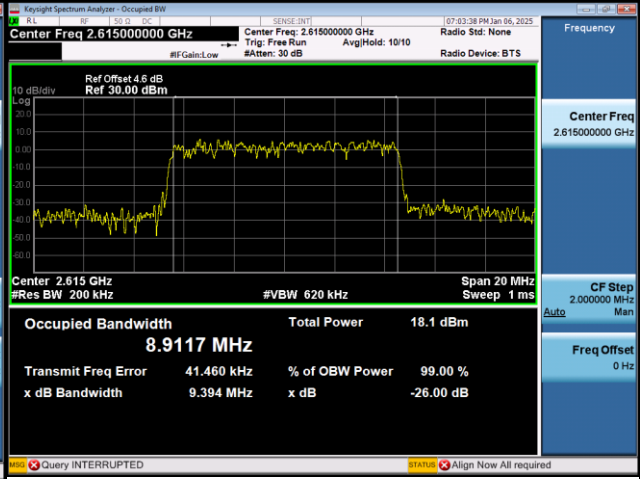
16QAM-37800

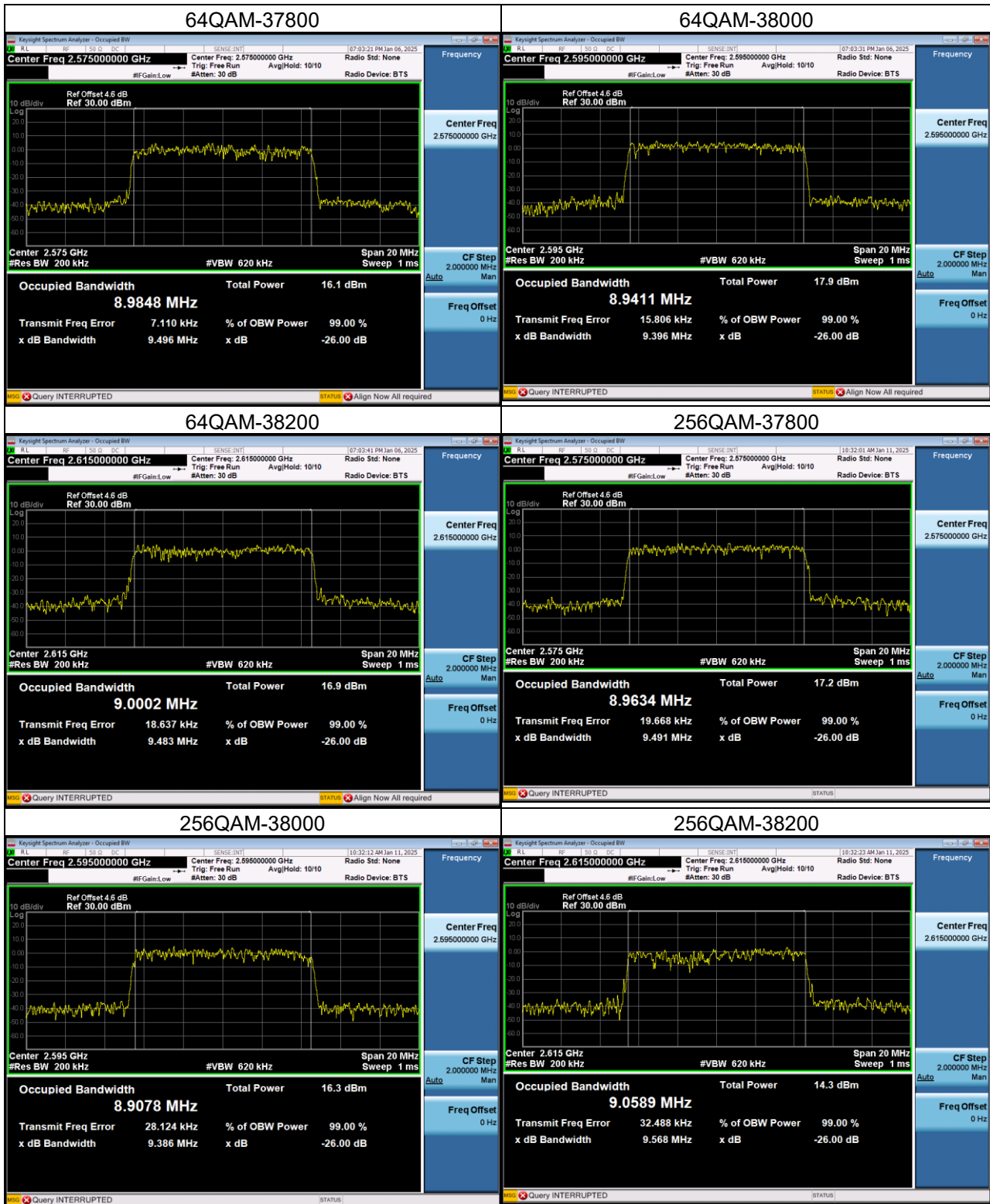


16QAM-38000



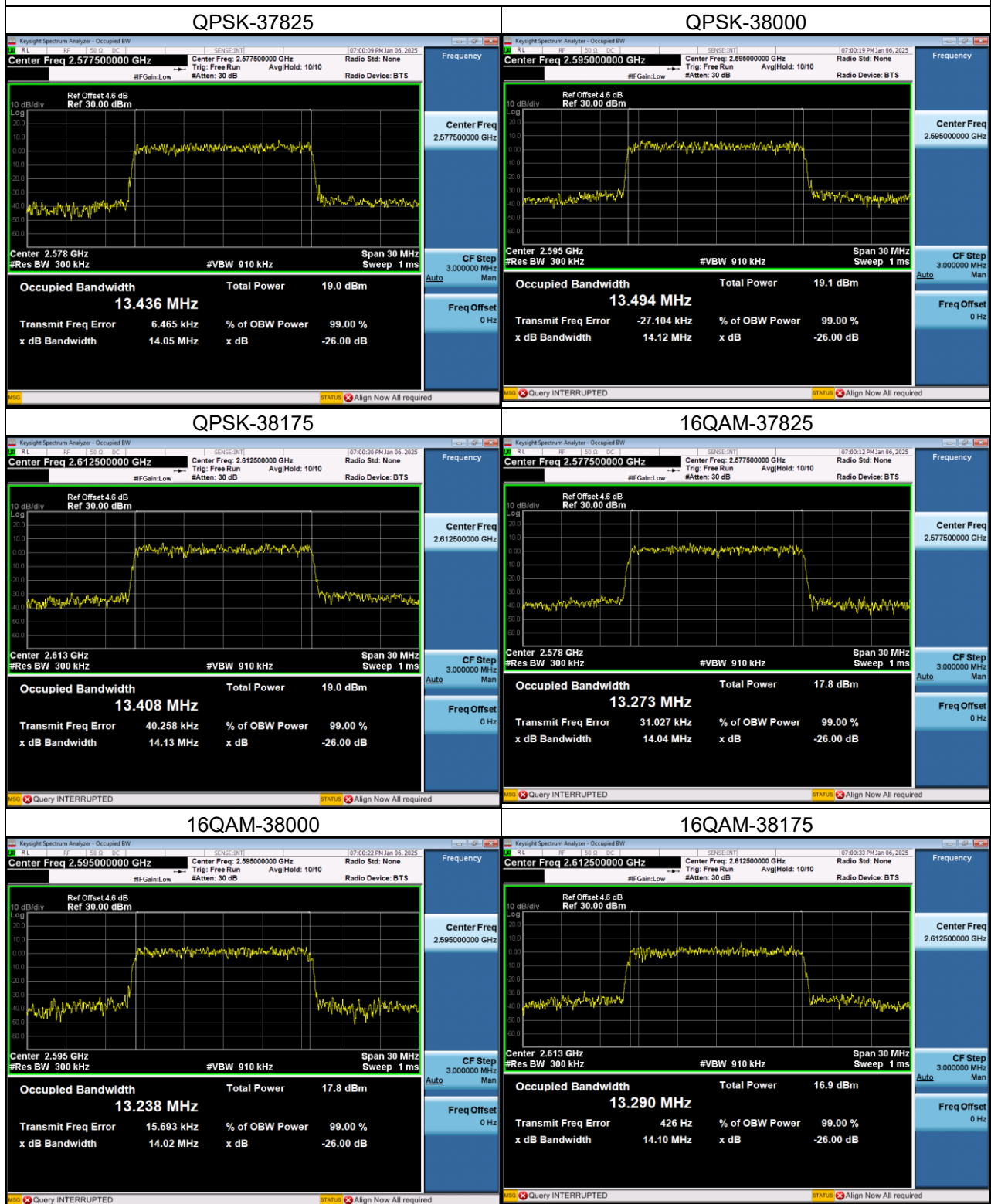
16QAM-38200

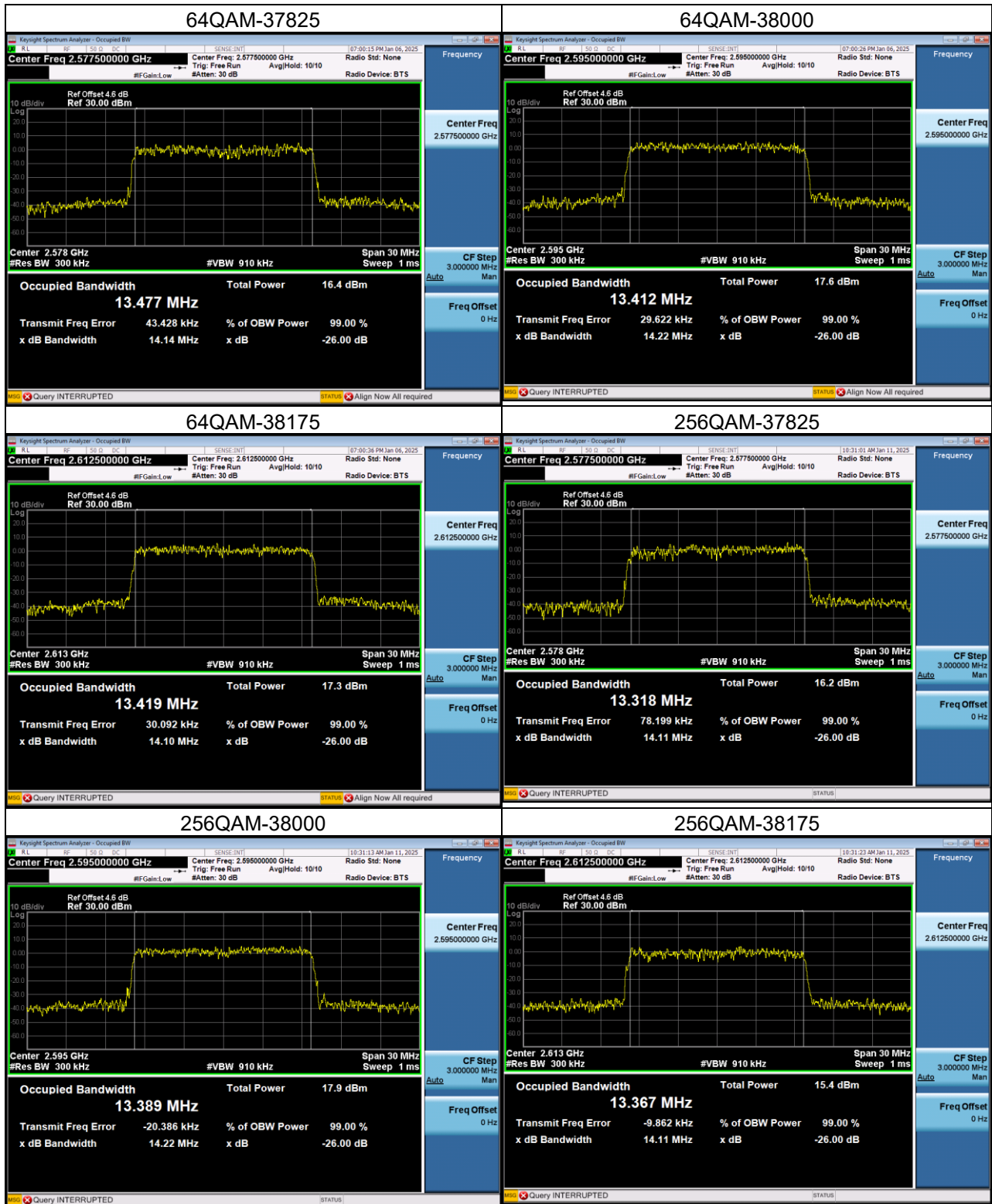




LTE Band 38_15M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
37825	2577.5	13.436	37825	2577.5	14.05
38000	2595	13.494	38000	2595	14.12
38175	2612.5	13.408	38175	2612.5	14.13
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
37825	2577.5	13.273	37825	2577.5	14.04
38000	2595	13.238	38000	2595	14.02
38175	2612.5	13.290	38175	2612.5	14.10
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
37825	2577.5	13.477	37825	2577.5	14.14
38000	2595	13.412	38000	2595	14.22
38175	2612.5	13.419	38175	2612.5	14.10
256QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
37825	2577.5	13.318	37825	2577.5	14.11
38000	2595	13.389	38000	2595	14.22
38175	2612.5	13.367	38175	2612.5	14.11

Spectrum Plot

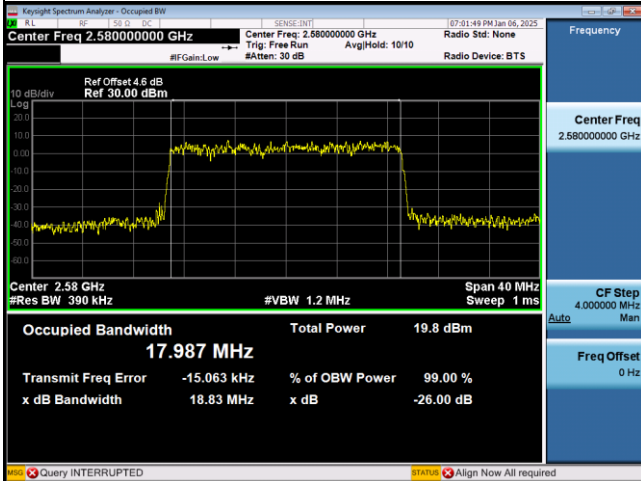




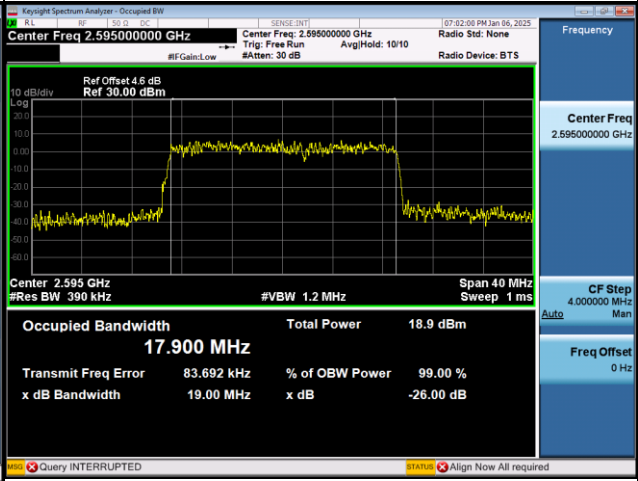
LTE Band 38_20M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
37850	2580	17.987	37850	2580	18.83
38000	2595	17.900	38000	2595	19.00
38150	2610	17.896	38150	2610	18.84
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
37850	2580	17.831	37850	2580	18.74
38000	2595	17.852	38000	2595	18.87
38150	2610	17.910	38150	2610	18.80
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
37850	2580	17.877	37850	2580	18.85
38000	2595	17.636	38000	2595	18.64
38150	2610	17.744	38150	2610	18.84
256QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
37850	2580	17.956	37850	2580	18.83
38000	2595	17.808	38000	2595	18.83
38150	2610	17.850	38150	2610	18.76

Spectrum Plot

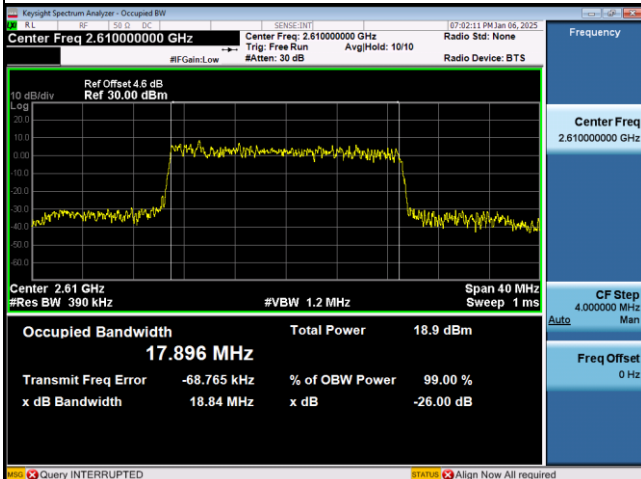
QPSK-37850



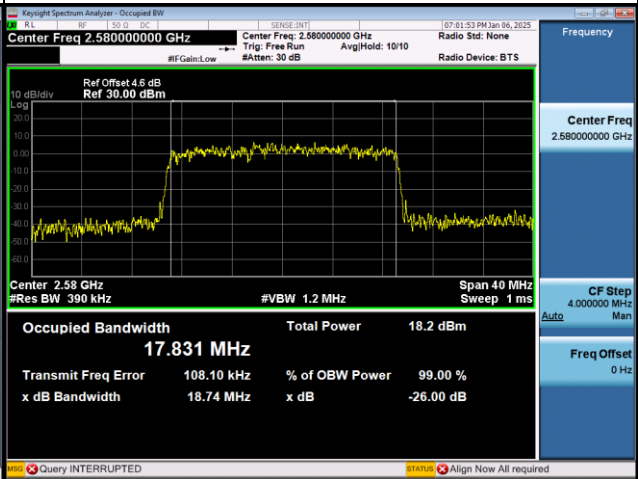
QPSK-38000



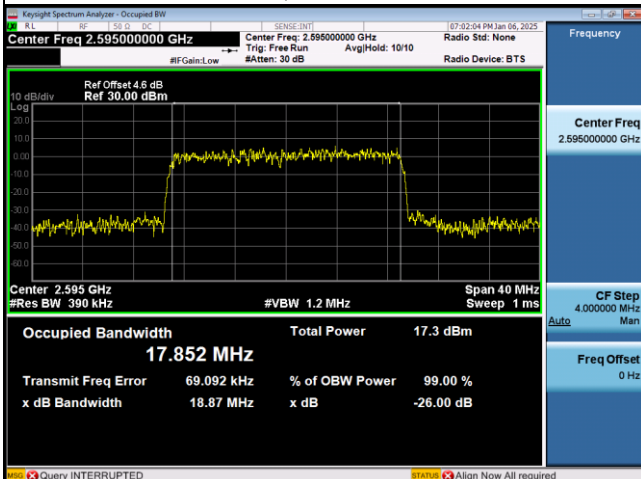
QPSK-38150



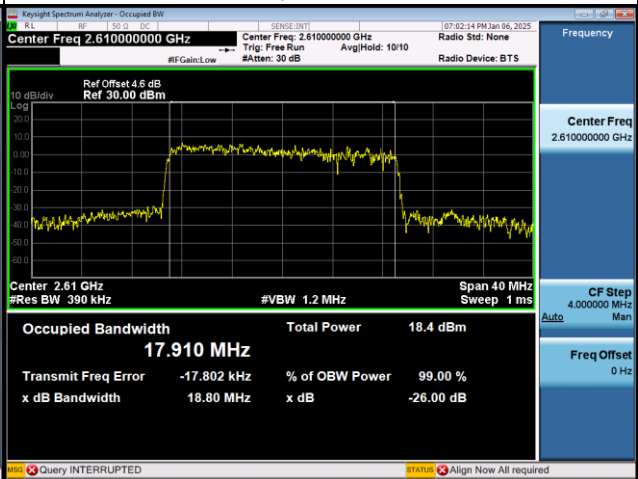
16QAM-37850

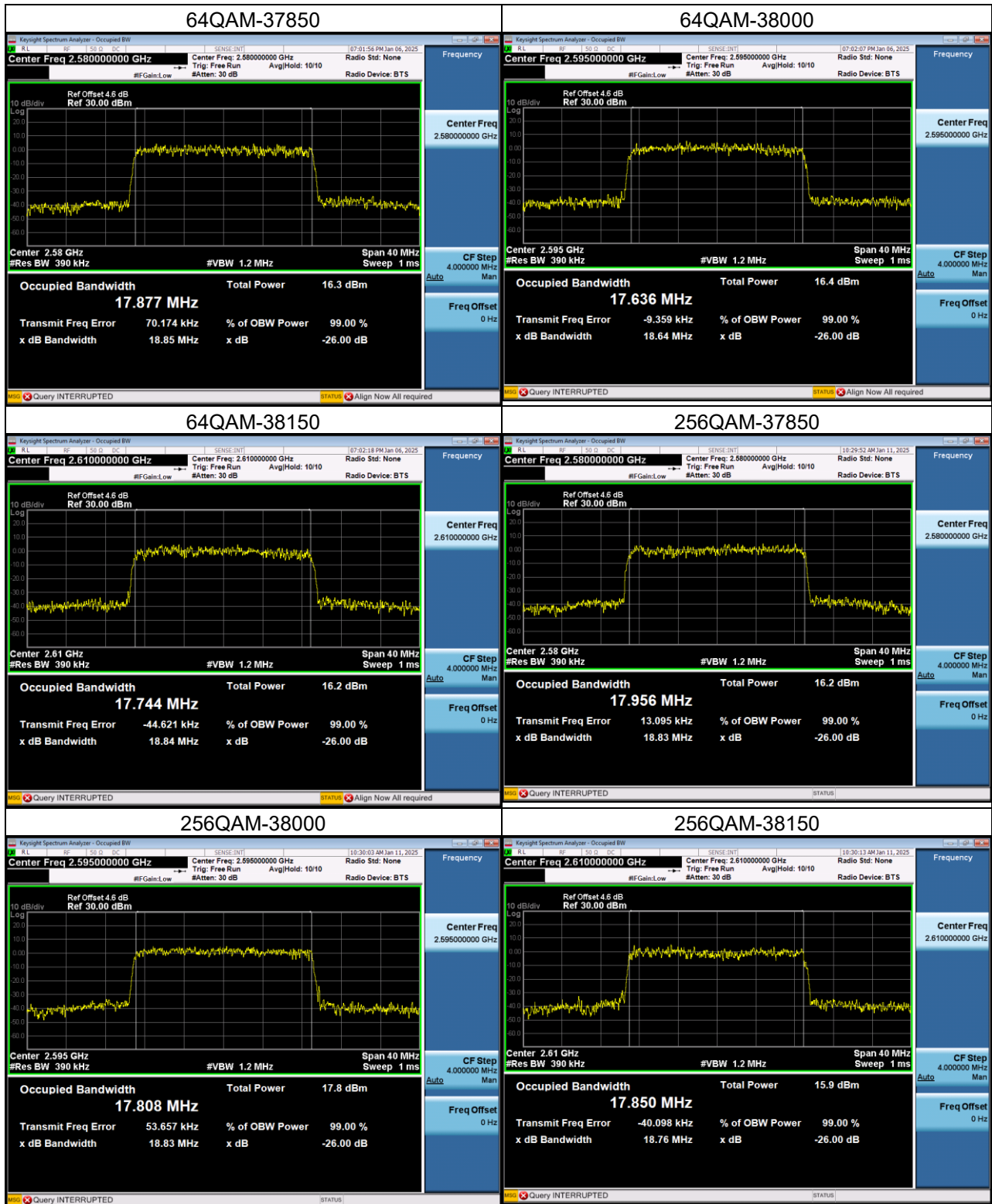


16QAM-38000



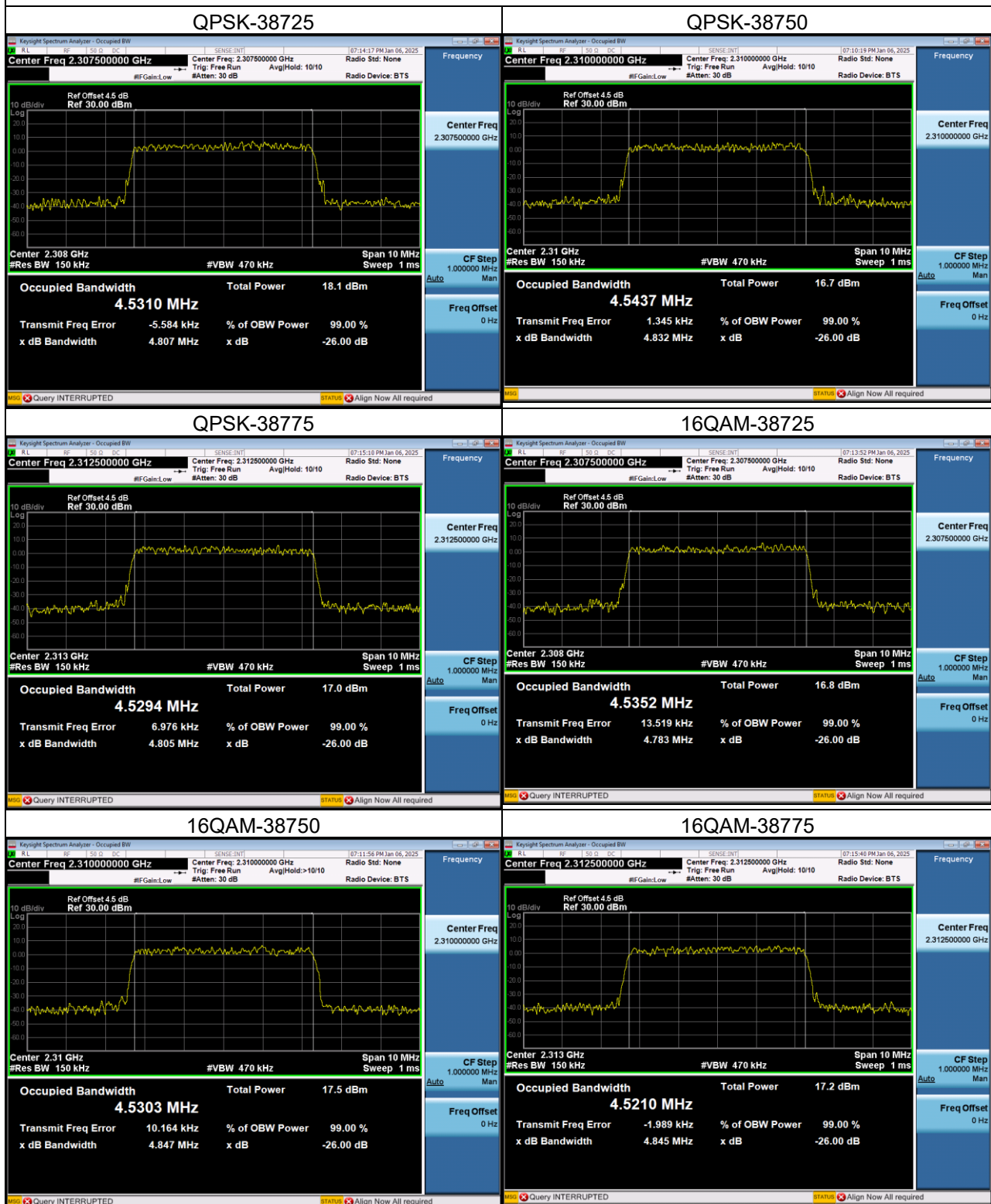
16QAM-38150

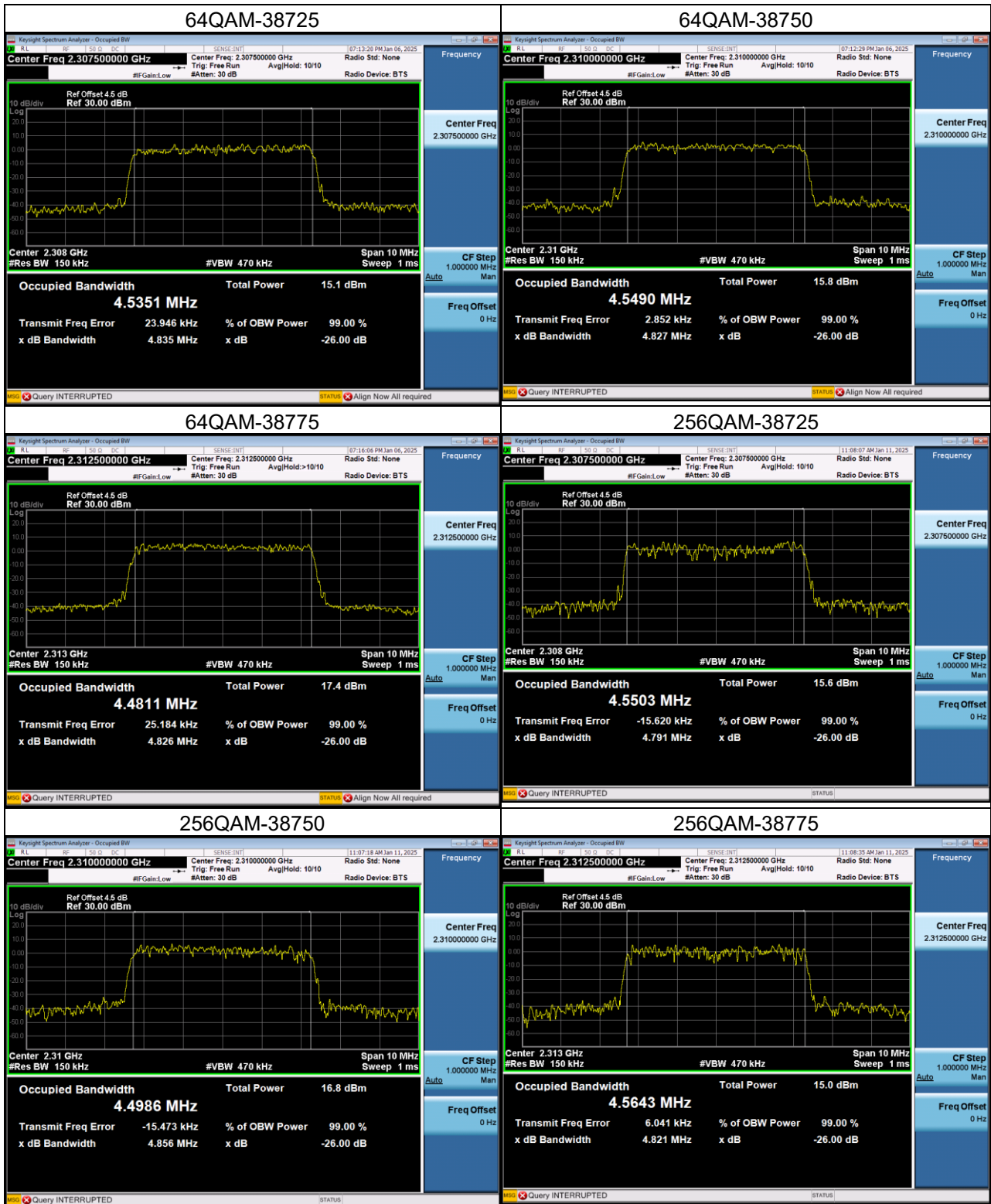




LTE Band 40 (2305-2315)_5M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
38725	2307.5	4.5310	38725	2307.5	4.807
38750	2310	4.5437	38750	2310	4.832
38775	2312.5	4.5294	38775	2312.5	4.805
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
38725	2307.5	4.5352	38725	2307.5	4.783
38750	2310	4.5303	38750	2310	4.847
38775	2312.5	4.5210	38775	2312.5	4.845
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
38725	2307.5	4.5351	38725	2307.5	4.835
38750	2310	4.5490	38750	2310	4.827
38775	2312.5	4.4811	38775	2312.5	4.826
256QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
38725	2307.5	4.5503	38725	2307.5	4.791
38750	2310	4.4986	38750	2310	4.856
38775	2312.5	4.5643	38775	2312.5	4.821

Spectrum Plot

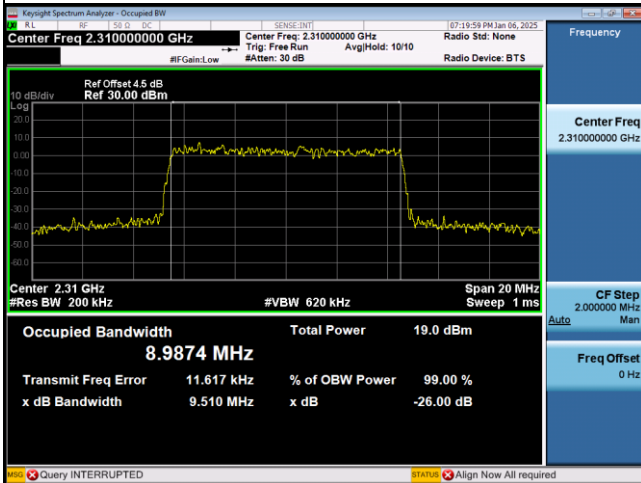




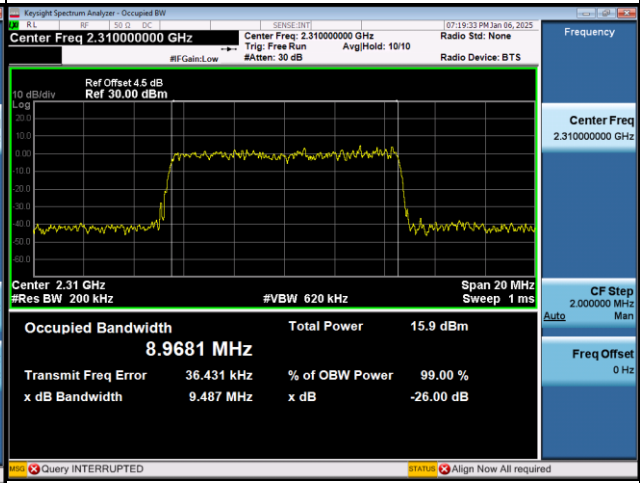
LTE Band 40 (2305-2315)_10M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
38750	2310	8.9874	38750	2310	9.510
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
38750	2310	8.9681	38750	2310	9.487
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
38750	2310	8.9129	38750	2310	9.441
256QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
38750	2310	8.9714	38750	2310	9.423

Spectrum Plot

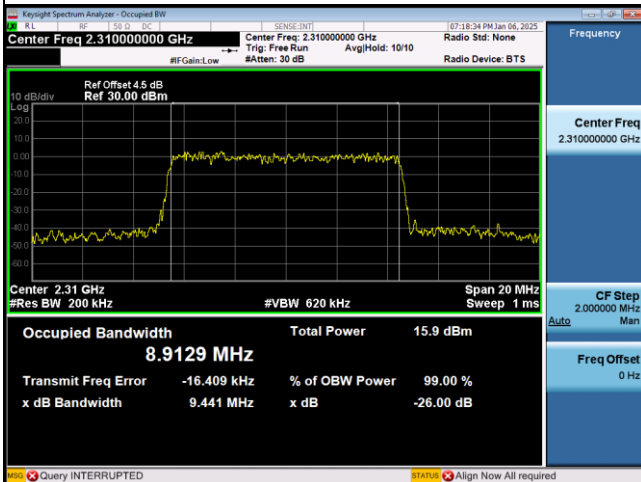
QPSK-38750



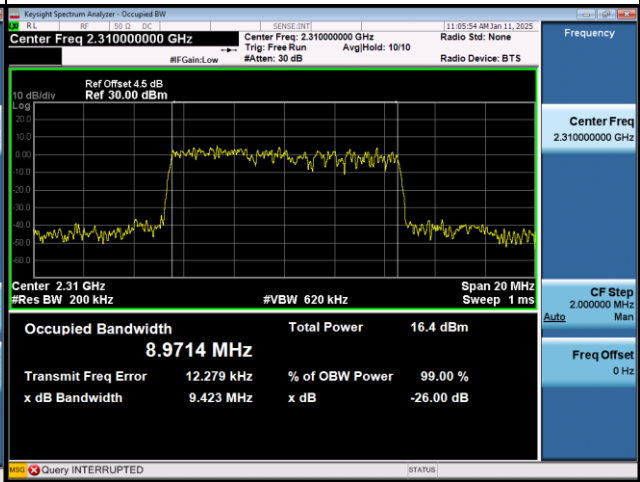
16QAM-38750



64QAM-38750



256QAM-38750



LTE Band 40 (2350-2360)_5M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
39175	2352.5	4.5142	39175	2352.5	4.827
39200	2355	4.5245	39200	2355	4.819
39225	2357.5	4.5282	39225	2357.5	4.876
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
39175	2352.5	4.5319	39175	2352.5	4.835
39200	2355	4.5266	39200	2355	4.841
39225	2357.5	4.5322	39225	2357.5	4.926
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
39175	2352.5	4.5030	39175	2352.5	4.831
39200	2355	4.4973	39200	2355	4.827
39225	2357.5	4.5217	39225	2357.5	4.829
256QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
39175	2352.5	4.5099	39175	2352.5	4.853
39200	2355	4.4901	39200	2355	4.807
39225	2357.5	4.5059	39225	2357.5	4.878