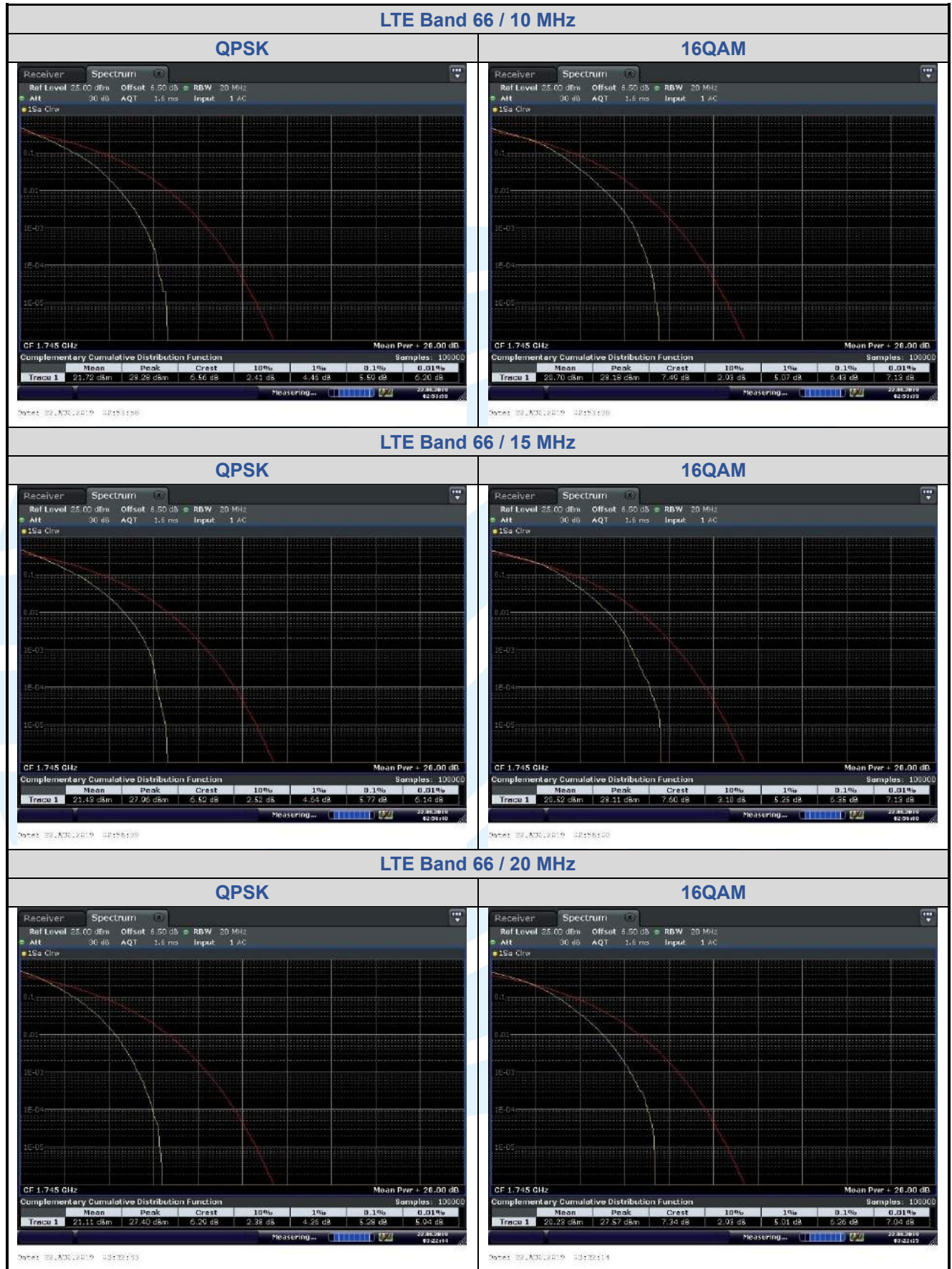
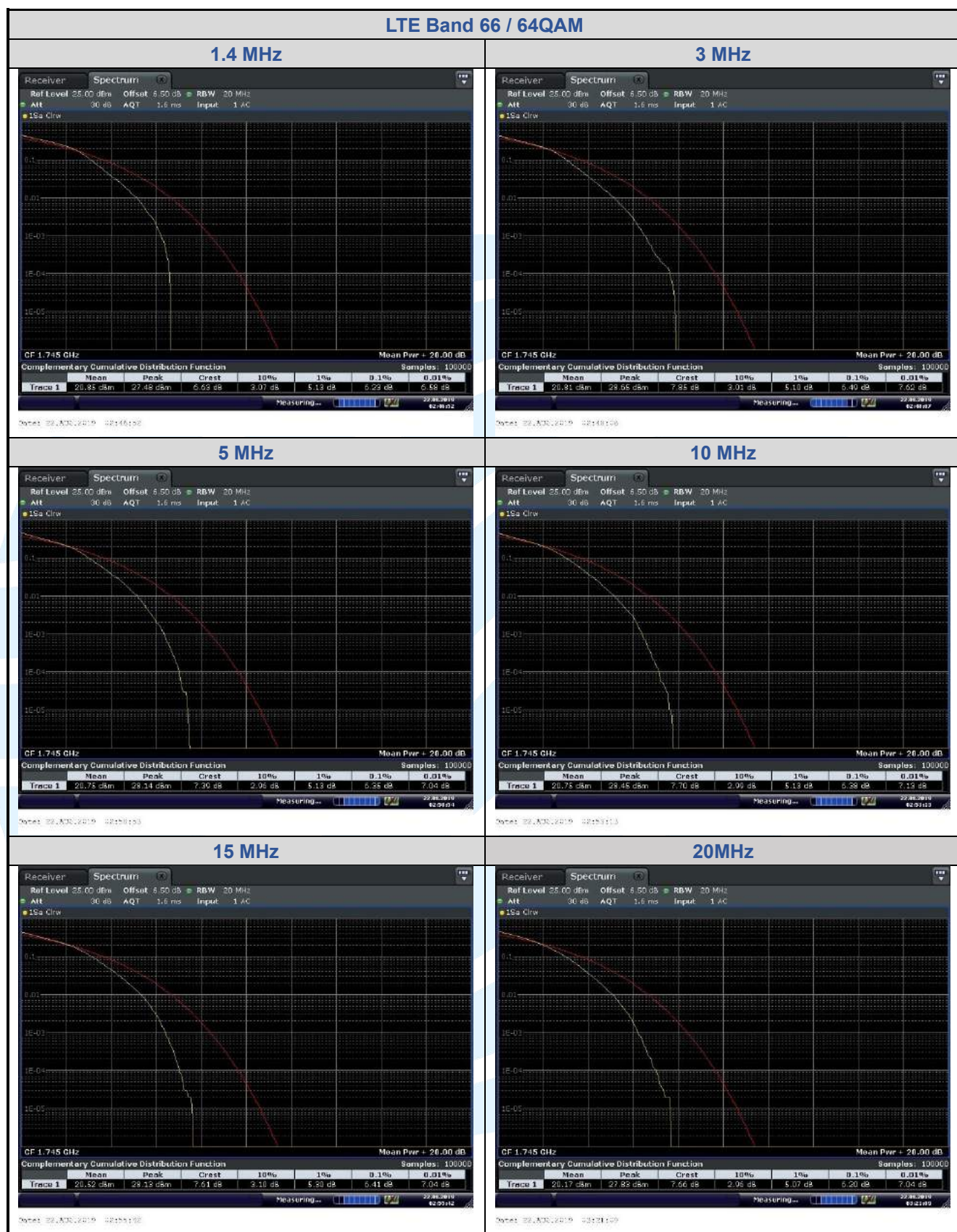


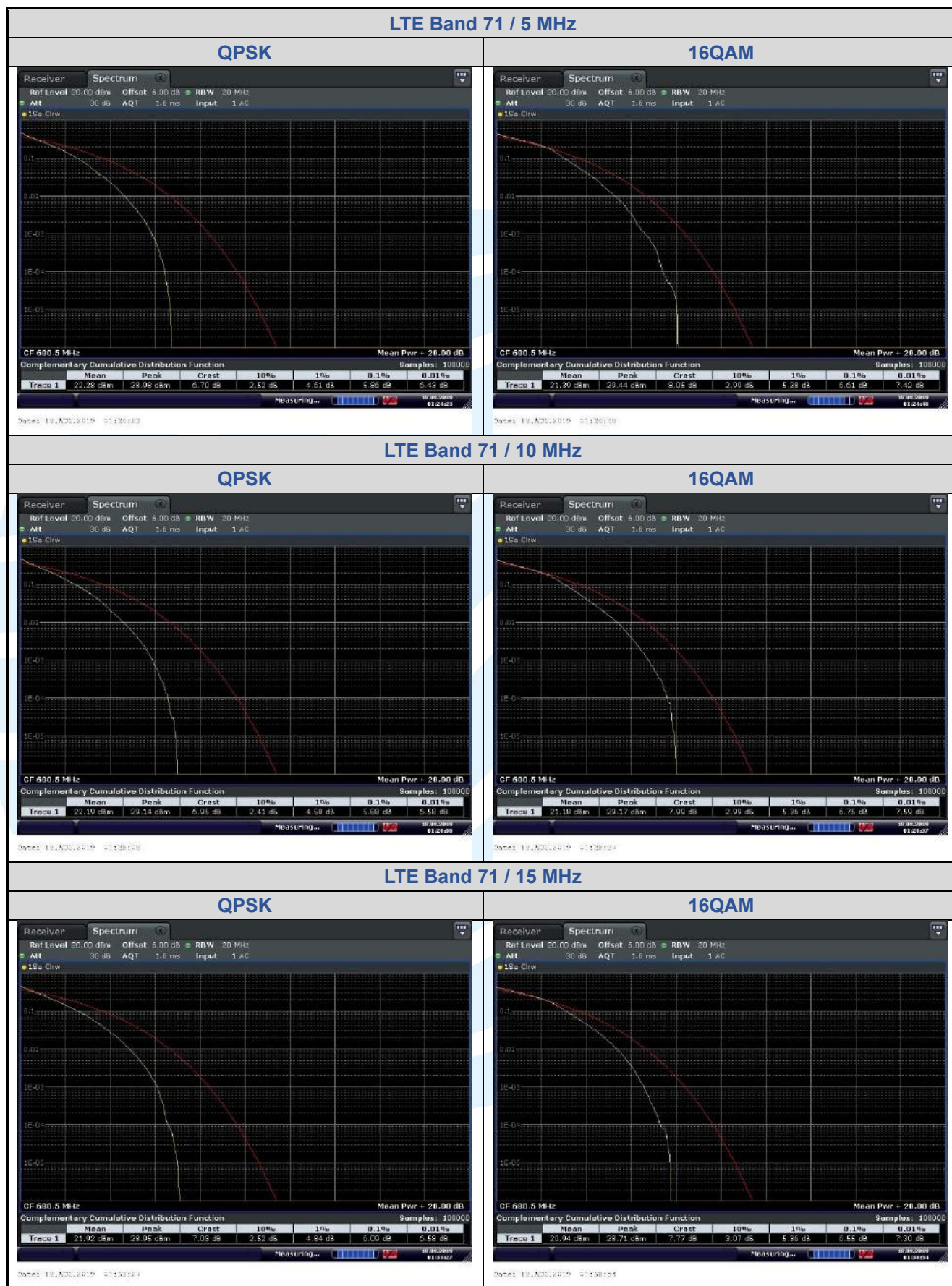


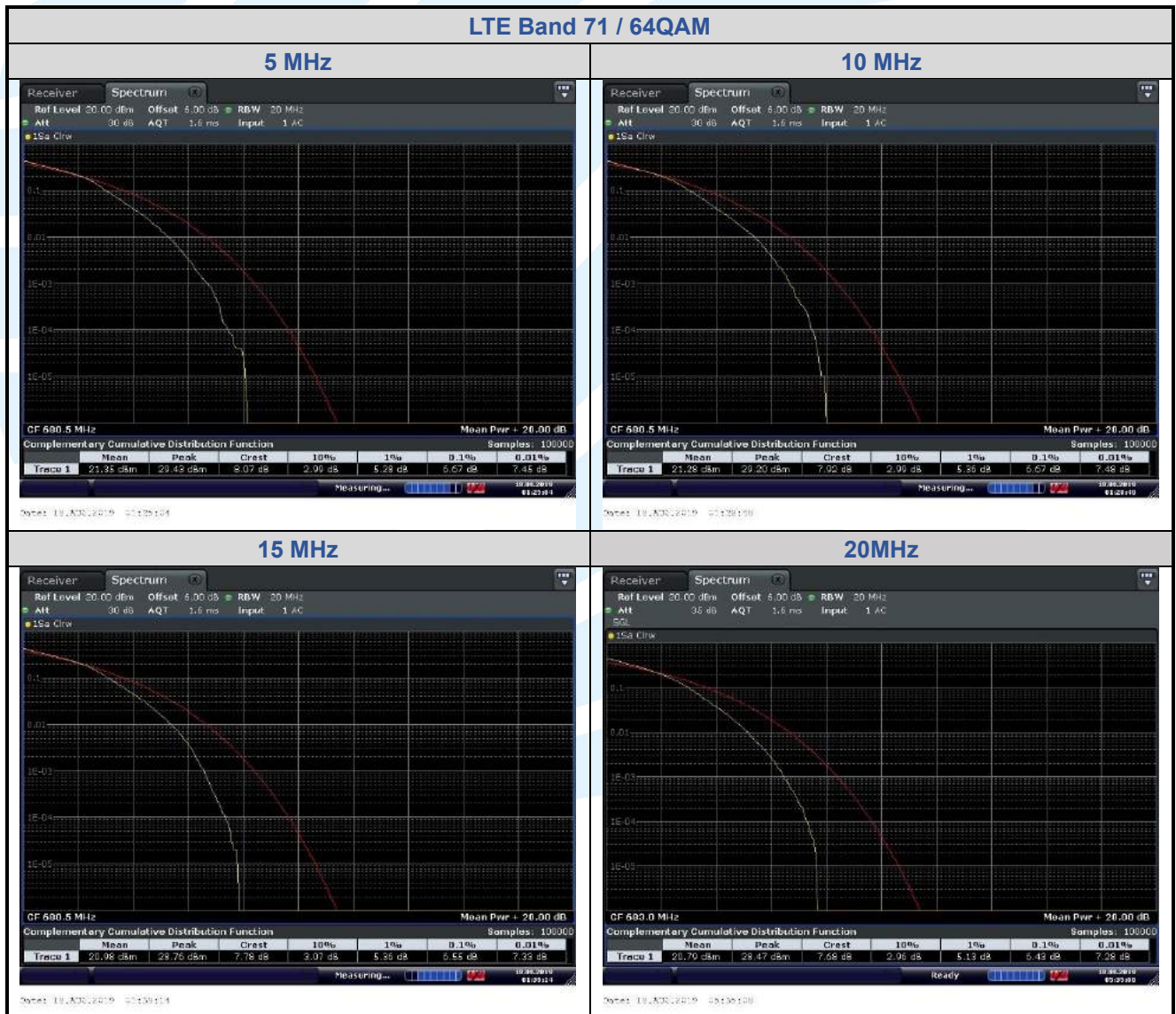


5.4.10 LTE Band 71

LTE Band 2 Peak-to-average ratio (dB)						
Channel Bandwidth(MHz)	RB Configuration	QPSK	16QAM	64QAM	Limit (dB)	Result
5	Full RB	5.86	6.61	6.67	13	Pass
10	Full RB	5.88	6.75	6.67	13	Pass
15	Full RB	6.09	6.55	6.55	13	Pass
20	Full RB	5.57	6.46	6.43	13	Pass







5.5 99%&26DB BANDWIDTH

Test Requirement: FCC 47 CFR Part 2.1049(h)

Test Method: ANSI C63.26-2015 & KDB 971168 D01v03r01 Section 4

Limit: No Limit, for reporting purposes only.

Test Procedure:

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at the low, middle and high channel in each band. The 99% and -26dB bandwidths was also measured and recorded.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.2.2 for details.

Instruments Used: Refer to section 3 for details

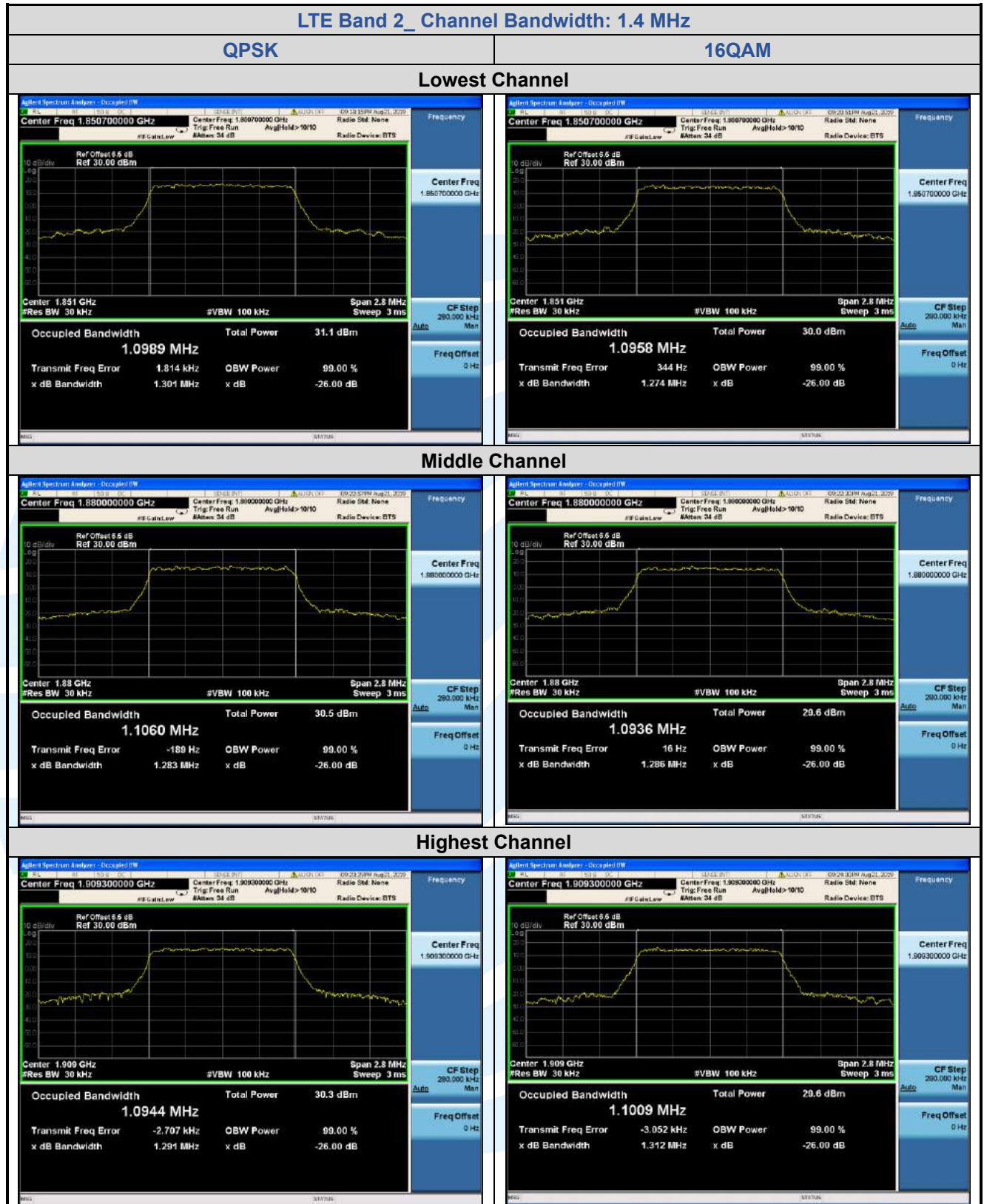
Test Mode: Link mode

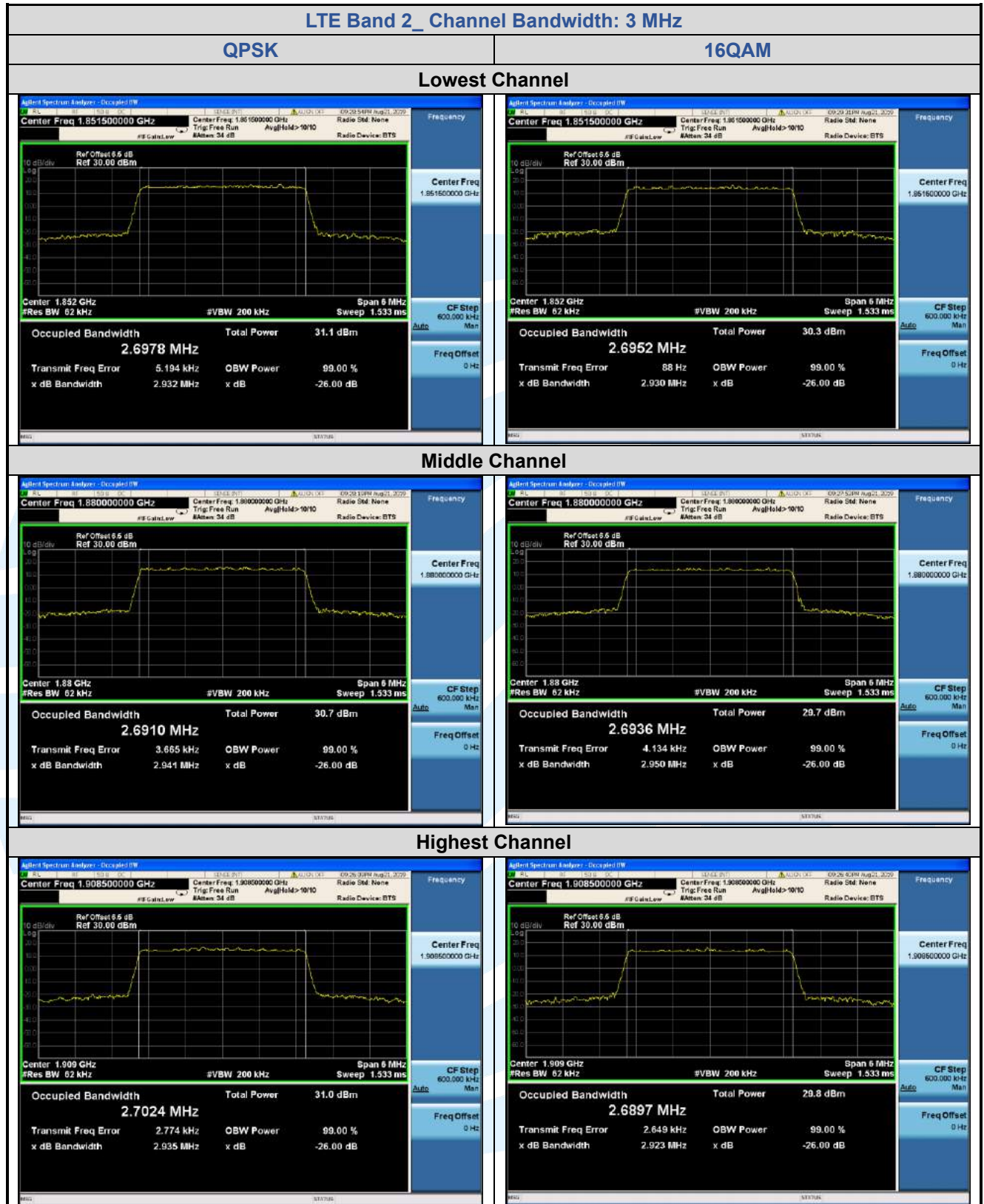
Test Results: Pass

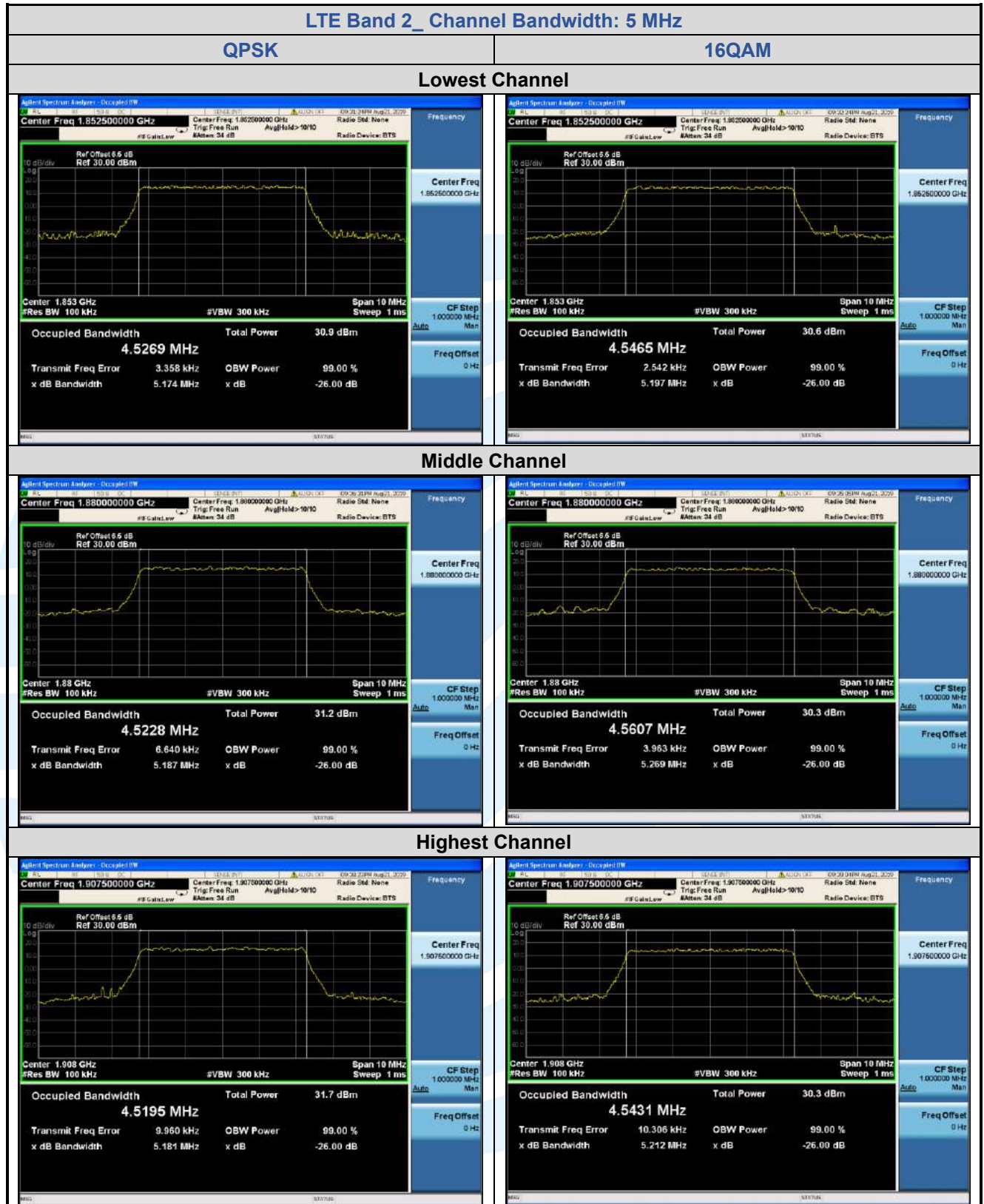
Test Data: See table below

5.5.1 LTE Band 2

LTE Band 2								
Channel	RB Configuration		26 dB BW (MHz)			99% BW (MHz)		
	Size	Offset	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Channel Bandwidth: 1.4 MHz								
Lowest	6	0	1.301	1.274	1.277	1.0989	1.0958	1.0936
Middle	6	0	1.283	1.286	1.288	1.1060	1.0936	1.0963
Highest	6	0	1.291	1.312	1.309	1.0944	1.1009	1.1008
Channel Bandwidth: 3 MHz								
Lowest	15	0	2.932	2.930	2.930	2.6978	2.6952	2.6945
Middle	15	0	2.941	2.950	2.945	2.6910	2.6936	2.6971
Highest	15	0	2.935	2.923	2.933	2.7024	2.6897	2.6945
Channel Bandwidth: 5 MHz								
Lowest	25	0	5.174	5.197	5.182	4.5269	4.5465	4.5392
Middle	25	0	5.187	5.269	5.244	4.5228	4.5607	4.5578
Highest	25	0	5.181	5.212	5.239	4.5195	4.5431	4.5485
Channel Bandwidth: 10 MHz								
Lowest	50	0	10.17	10.07	10.01	9.0384	9.0225	9.0315
Middle	50	0	10.12	10.23	10.23	9.0370	9.0296	9.0188
Highest	50	0	10.07	10.12	10.12	9.0078	9.0324	9.0067
Channel Bandwidth: 15 MHz								
Lowest	75	0	15.13	14.98	14.97	13.524	13.524	13.485
Middle	75	0	15.17	15.14	15.10	13.593	13.539	13.570
Highest	75	0	15.02	15.06	15.47	13.497	13.537	13.552
Channel Bandwidth: 20 MHz								
Lowest	100	0	19.68	19.78	19.77	17.954	18.033	18.022
Middle	100	0	20.21	19.95	19.95	18.118	18.106	18.084
Highest	100	0	19.71	19.92	20.16	18.011	18.040	18.014



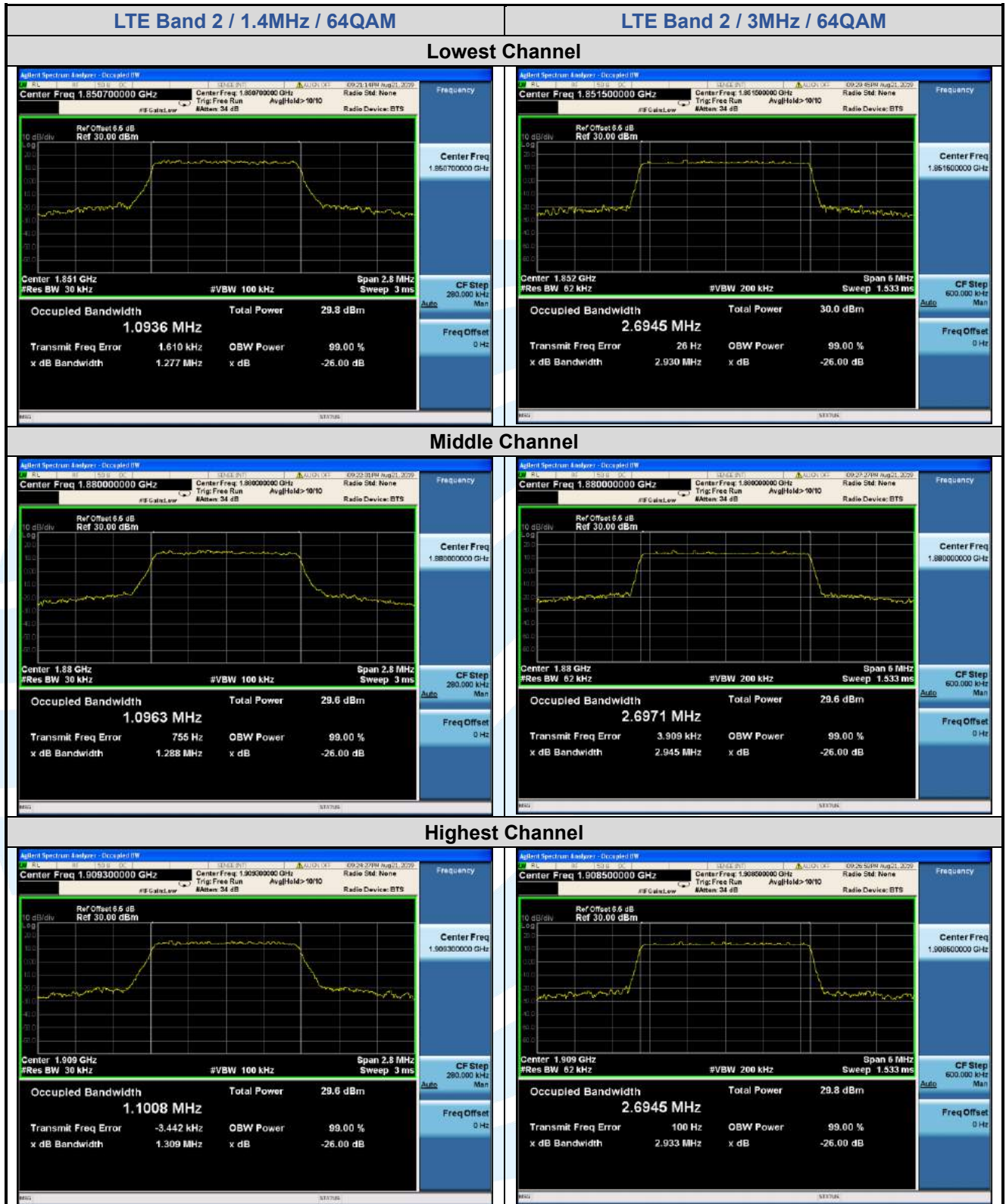




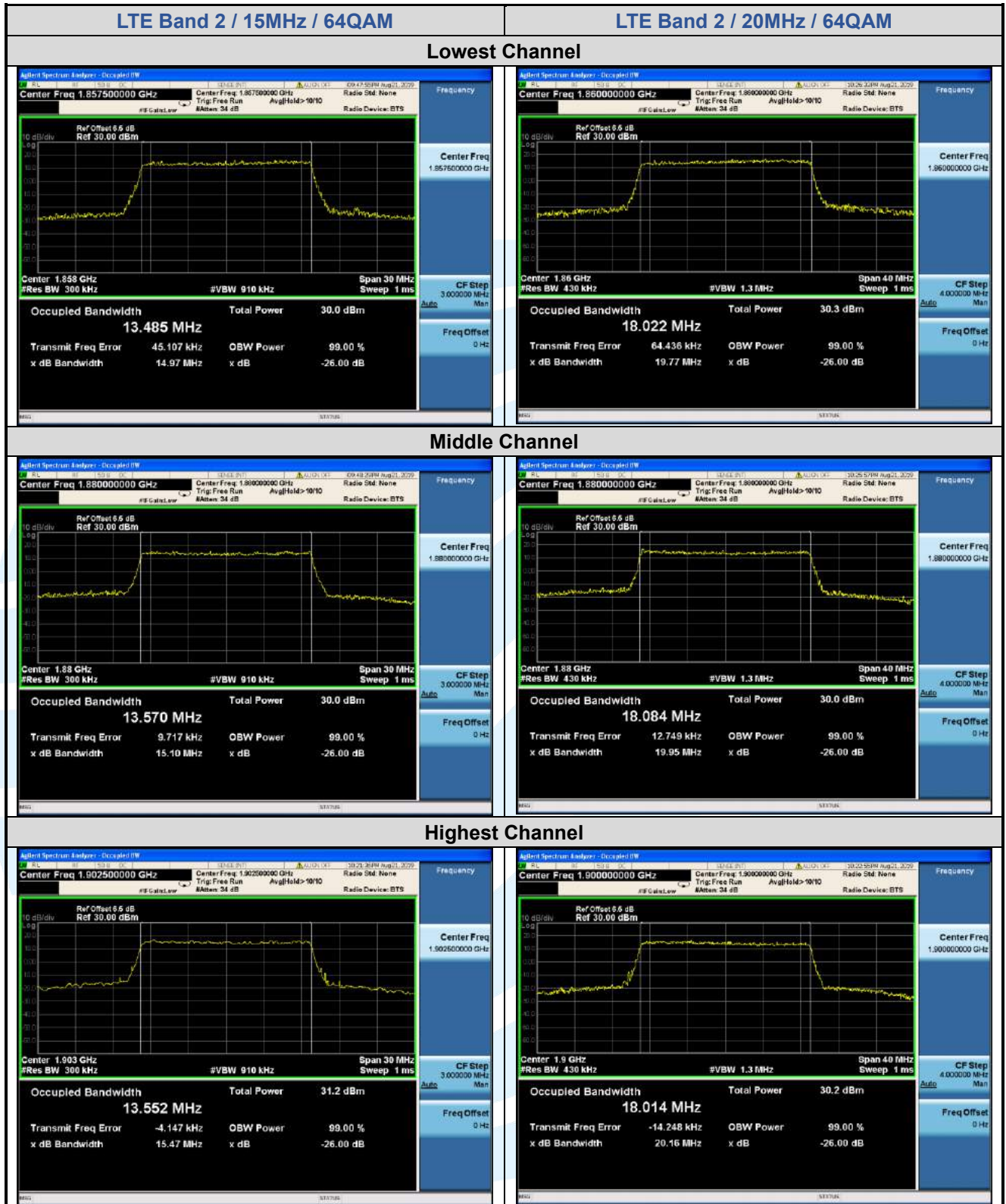






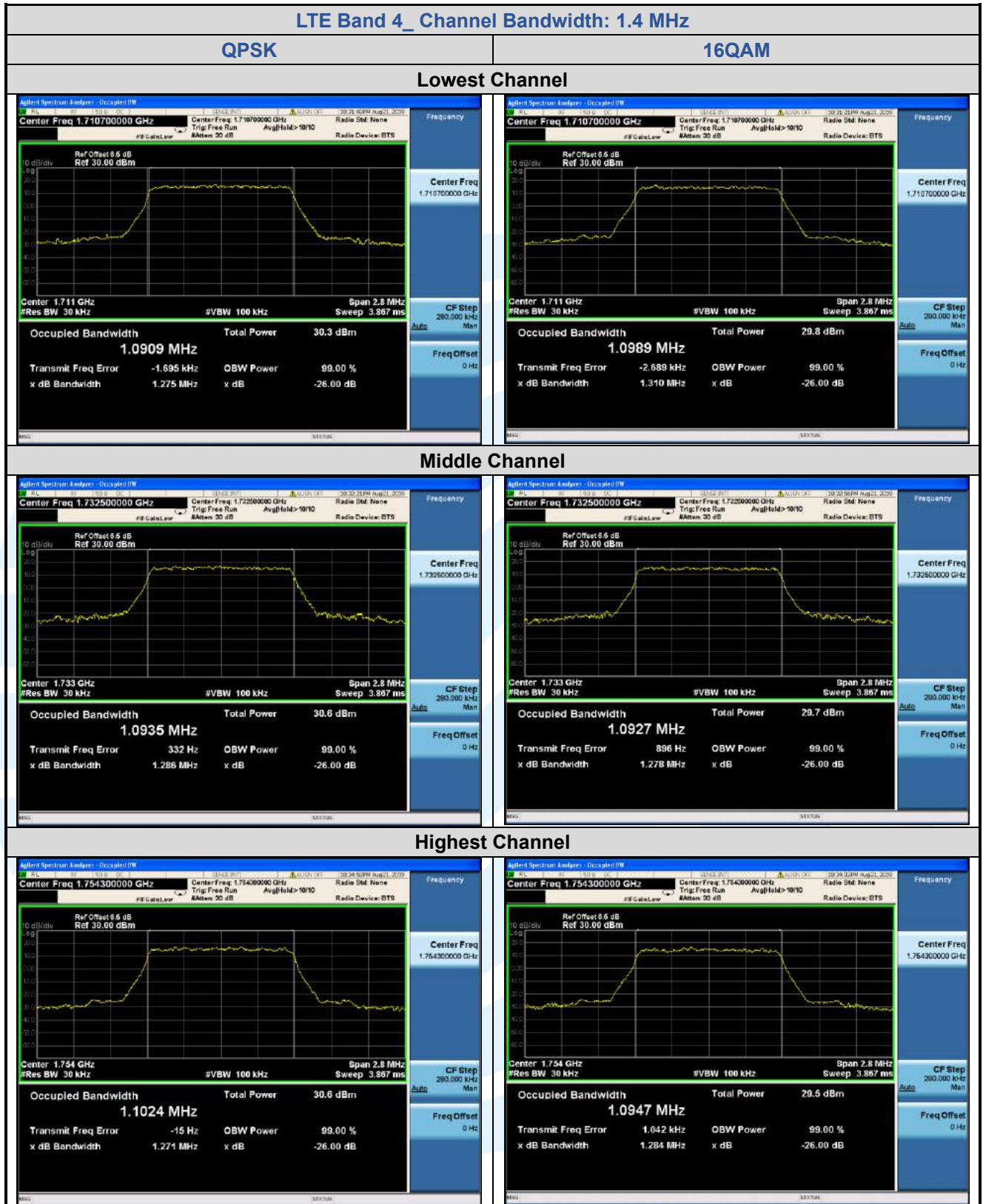


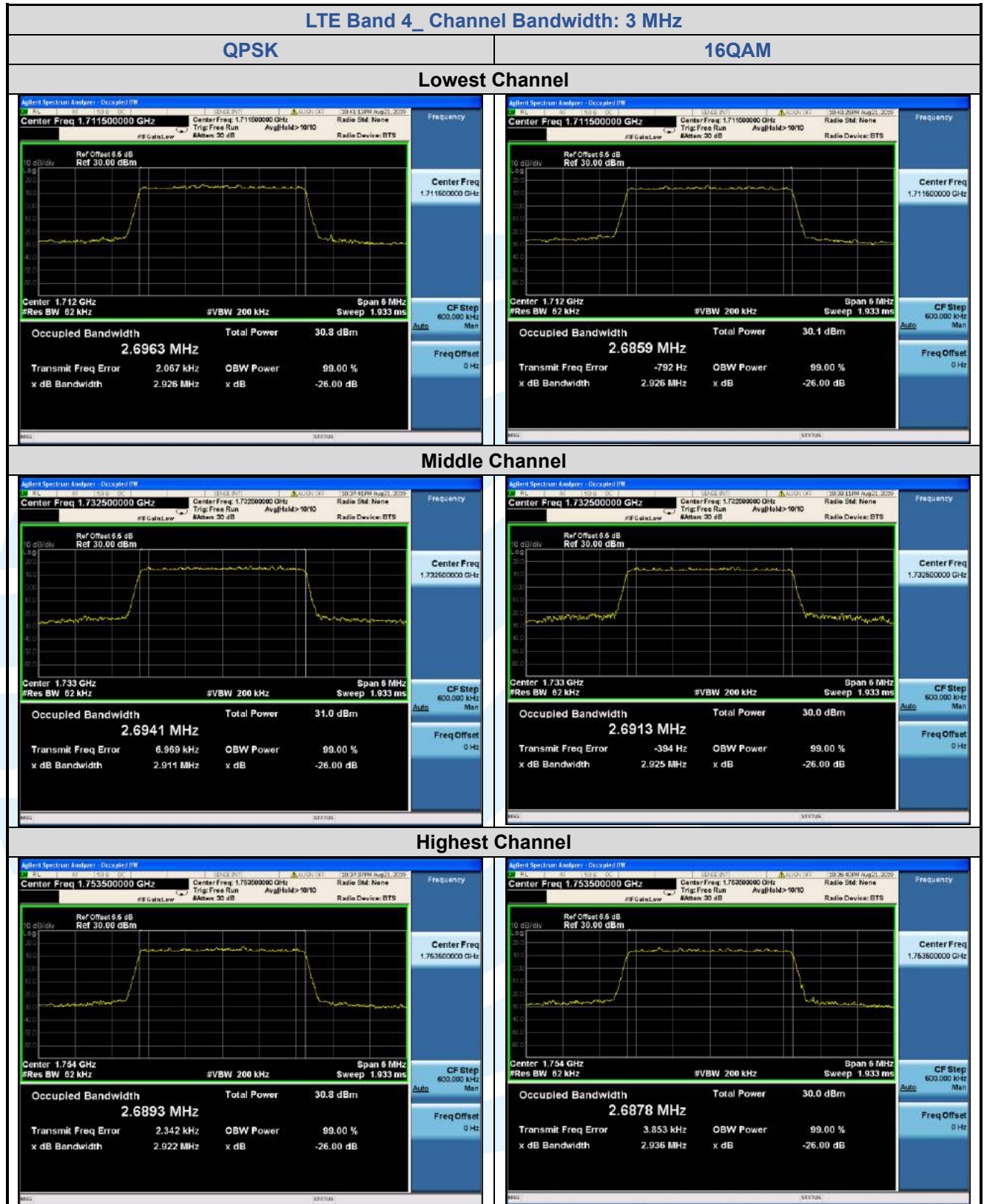


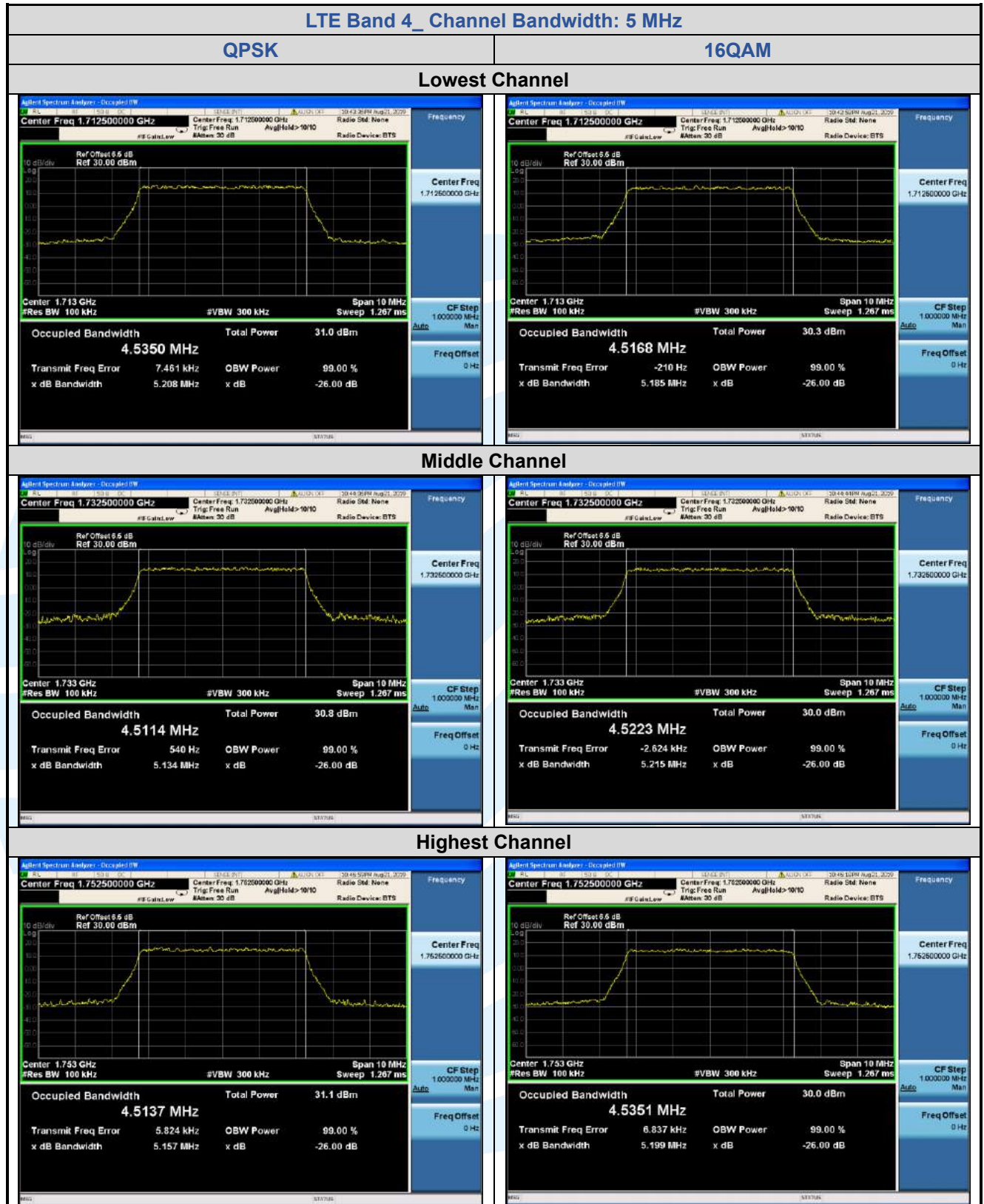


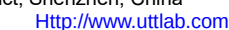
5.5.2 LTE Band 4

LTE Band 4								
Channel	RB Configuration		26 dB BW (MHz)			99% BW (MHz)		
	Size	Offset	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Channel Bandwidth: 1.4 MHz								
Lowest	6	0	1.275	1.310	1.310	1.0909	1.0989	1.0980
Middle	6	0	1.286	1.278	1.278	1.0935	1.0927	1.0931
Highest	6	0	1.271	1.284	1.271	1.1024	1.0947	1.0936
Channel Bandwidth: 3 MHz								
Lowest	15	0	2.926	2.926	2.925	2.6963	2.6859	2.6865
Middle	15	0	2.911	2.925	2.905	2.6941	2.6913	2.6887
Highest	15	0	2.922	2.936	2.913	2.6893	2.6878	2.6864
Channel Bandwidth: 5 MHz								
Lowest	25	0	5.208	5.185	5.179	4.5350	4.5168	4.5193
Middle	25	0	5.134	5.215	5.139	4.5114	4.5223	4.5131
Highest	25	0	5.157	5.199	5.193	4.5137	4.5351	4.5269
Channel Bandwidth: 10 MHz								
Lowest	50	0	10.13	10.17	9.992	9.0191	9.0039	8.9939
Middle	50	0	9.988	10.08	10.10	8.9858	9.0026	9.0003
Highest	50	0	10.21	10.04	9.934	9.0264	9.0150	9.0039
Channel Bandwidth: 15 MHz								
Lowest	75	0	15.09	15.04	14.92	13.517	13.514	13.508
Middle	75	0	14.98	15.08	14.95	13.465	13.502	13.495
Highest	75	0	15.10	14.94	14.95	13.497	13.507	13.504
Channel Bandwidth: 20 MHz								
Lowest	100	0	19.72	19.74	19.73	17.989	18.044	18.035
Middle	100	0	19.91	19.73	19.72	17.983	17.991	17.990
Highest	100	0	19.68	19.83	19.68	17.985	18.020	18.008



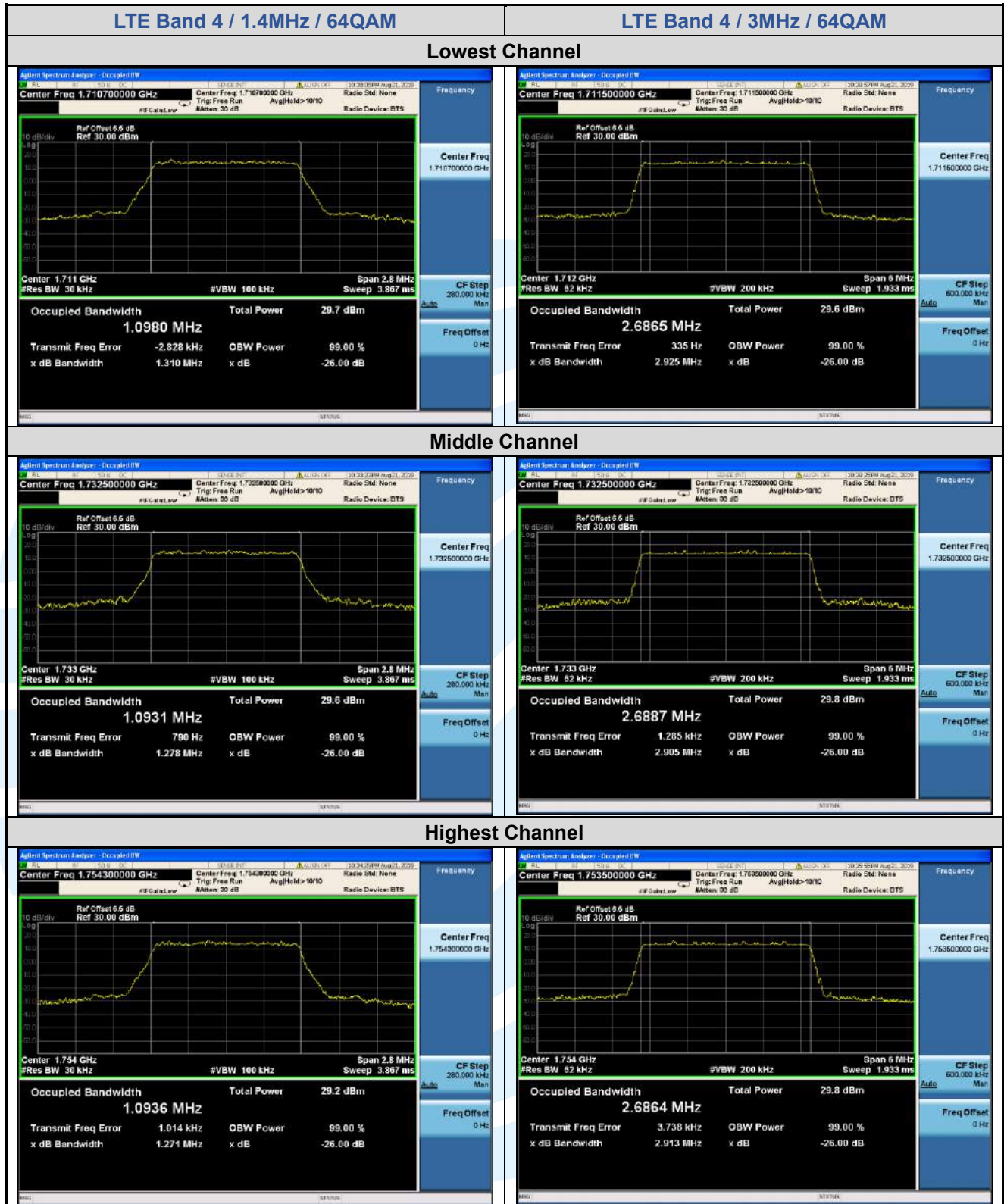




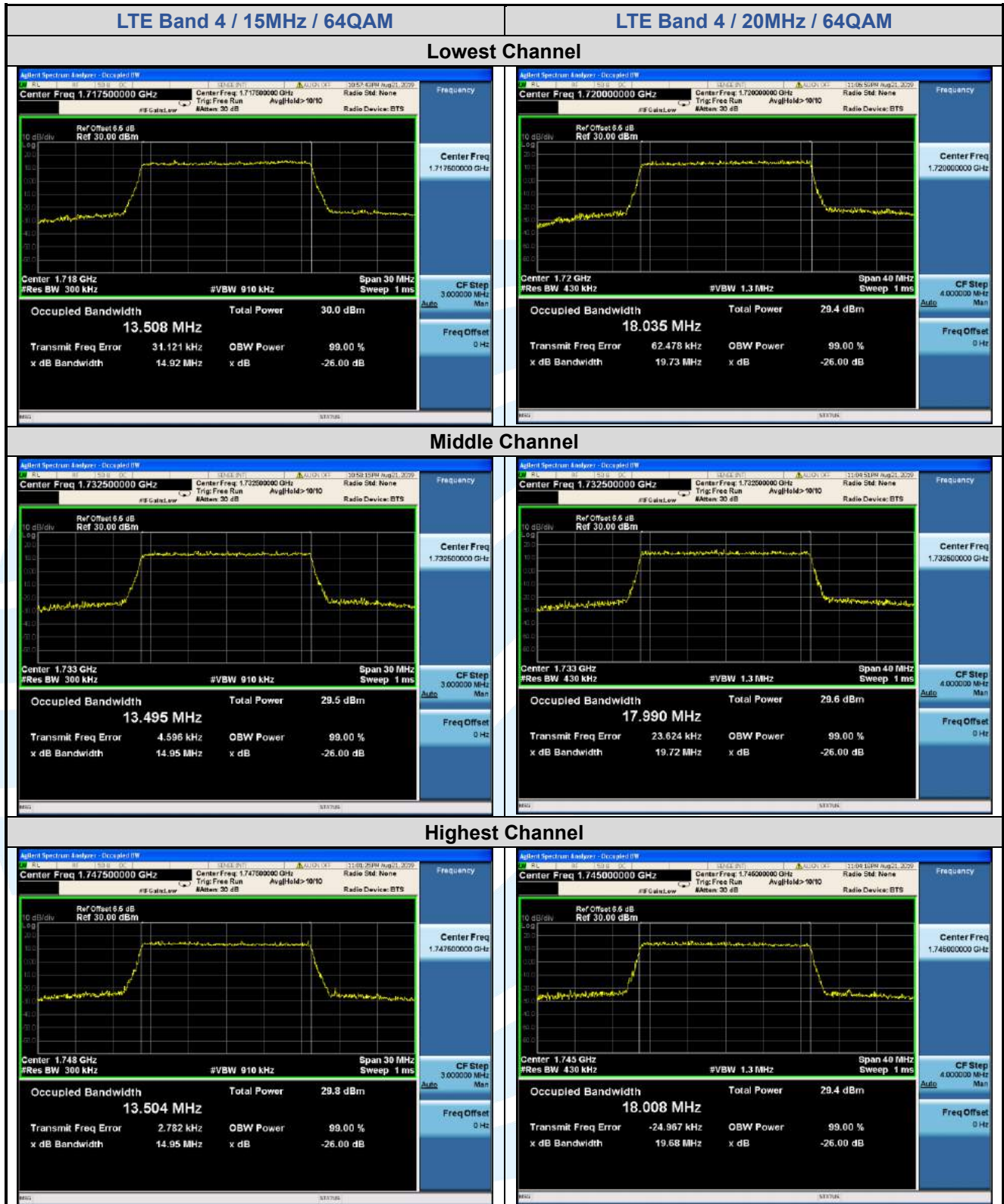






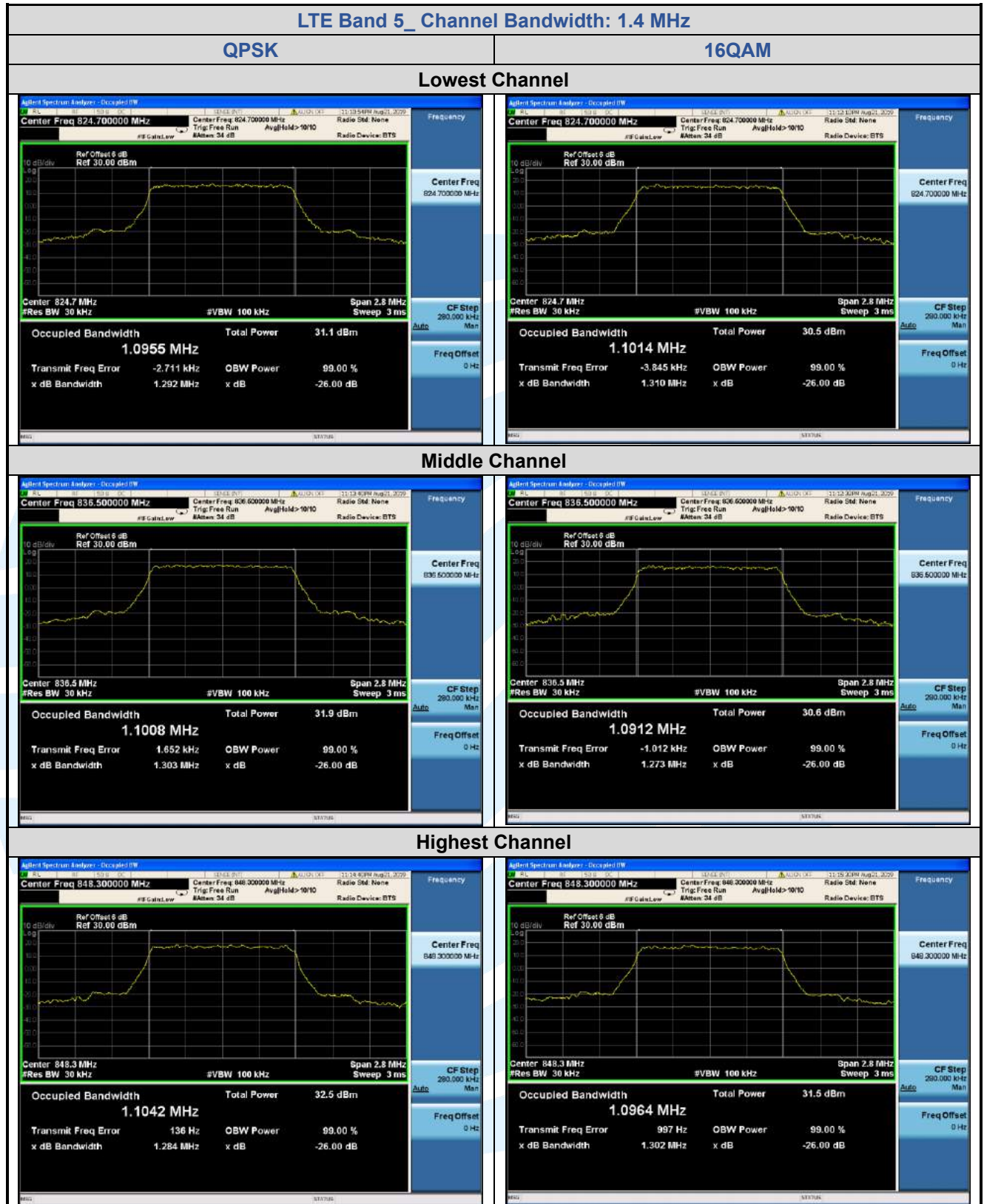


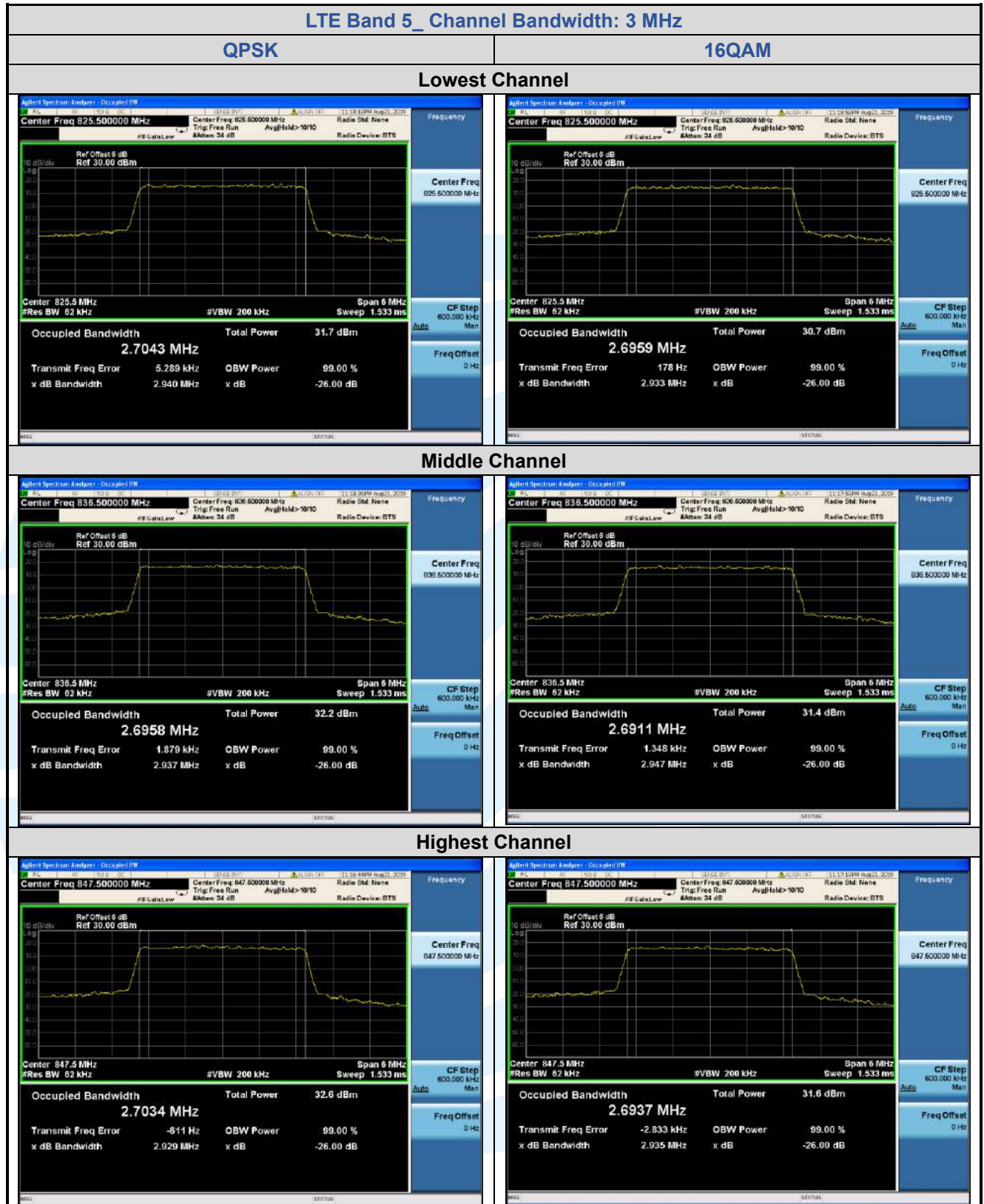




5.5.3 LTE Band 5

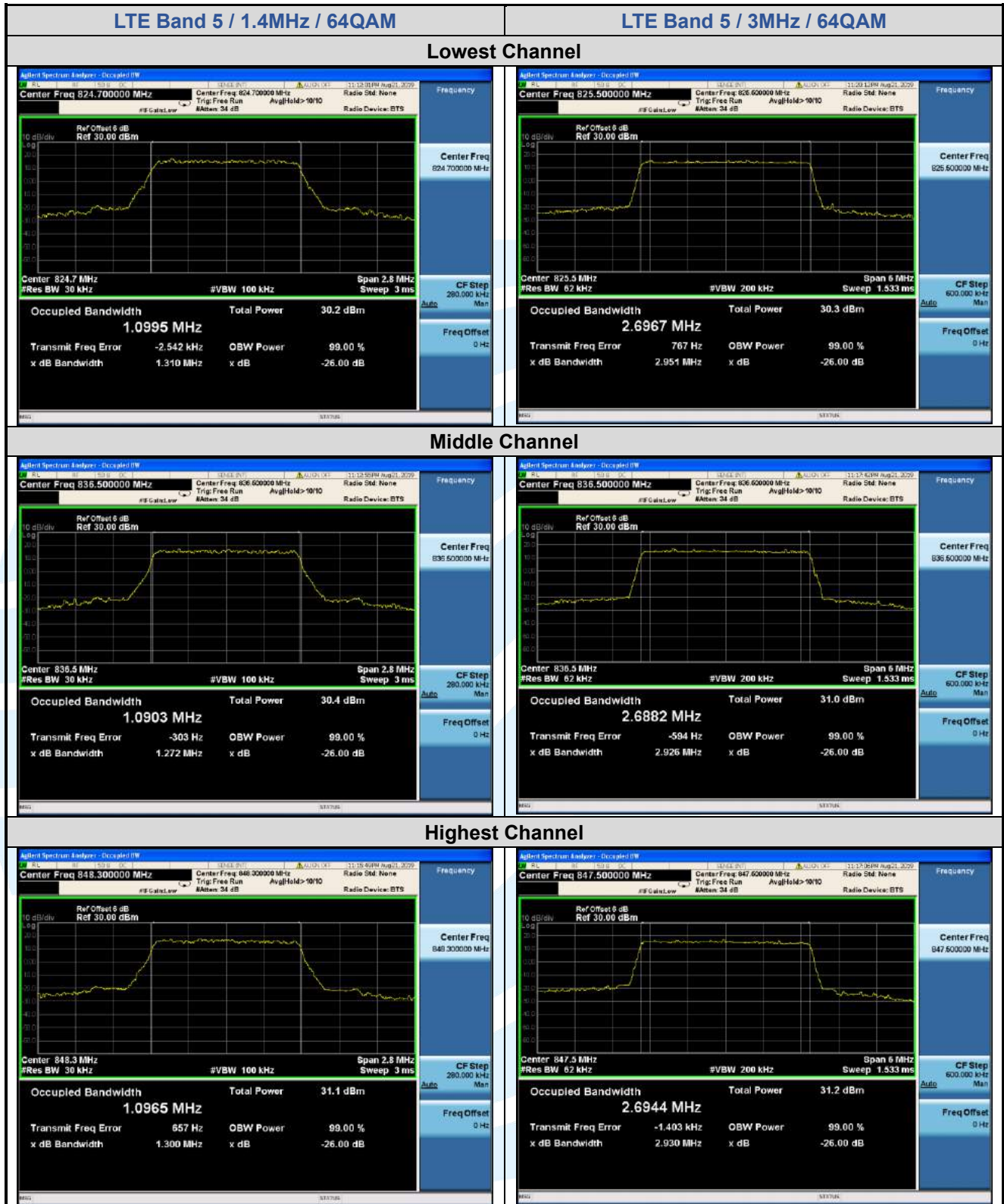
LTE Band 5								
Channel	RB Configuration		26 dB BW (MHz)			99% BW (MHz)		
	Size	Offset	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Channel Bandwidth: 1.4 MHz								
Lowest	6	0	1.292	1.310	1.310	1.0955	1.1014	1.0995
Middle	6	0	1.303	1.273	1.272	1.1008	1.0912	1.0903
Highest	6	0	1.284	1.302	1.300	1.1042	1.0964	1.0965
Channel Bandwidth: 3 MHz								
Lowest	15	0	2.940	2.933	2.951	2.7043	2.6959	2.6967
Middle	15	0	2.937	2.947	2.926	2.6958	2.6911	2.6882
Highest	15	0	2.929	2.935	2.930	2.7034	2.6937	2.6944
Channel Bandwidth: 5 MHz								
Lowest	25	0	5.192	5.202	5.135	4.5439	4.5273	4.5248
Middle	25	0	5.197	5.175	5.148	4.5259	4.5447	4.5358
Highest	25	0	5.103	5.191	5.223	4.5156	4.5326	4.5222
Channel Bandwidth: 10 MHz								
Lowest	50	0	10.20	10.20	10.11	9.0316	9.0190	9.0103
Middle	50	0	10.03	10.01	9.976	8.9924	9.0150	9.0144
Highest	50	0	10.15	10.04	9.970	8.9963	9.0006	9.0012













5.5.4 LTE Band 7

LTE Band 7								
Channel	RB Configuration		26 dB BW (MHz)			99% BW (MHz)		
	Size	Offset	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Channel Bandwidth: 5 MHz								
Lowest	25	0	5.153	5.239	5.205	4.5141	4.5434	4.5263
Middle	25	0	5.271	5.139	5.115	4.5295	4.5198	4.5202
Highest	25	0	5.196	5.150	5.143	4.5188	4.5355	4.5379
Channel Bandwidth: 10 MHz								
Lowest	50	0	10.08	10.15	10.04	8.9942	9.0046	9.0121
Middle	50	0	10.20	10.02	10.00	9.0101	8.9974	8.9965
Highest	50	0	10.05	10.13	10.08	9.0007	8.9902	8.9831
Channel Bandwidth: 15 MHz								
Lowest	75	0	15.05	15.04	14.98	13.533	13.507	13.514
Middle	75	0	14.80	14.99	14.97	13.462	13.498	13.459
Highest	75	0	15.03	14.90	14.78	13.496	13.491	13.477
Channel Bandwidth: 20 MHz								
Lowest	100	0	19.61	19.87	19.86	18.005	18.019	18.013
Middle	100	0	19.56	19.68	19.58	17.969	18.005	18.000
Highest	100	0	19.92	19.80	19.63	18.004	17.988	18.005









