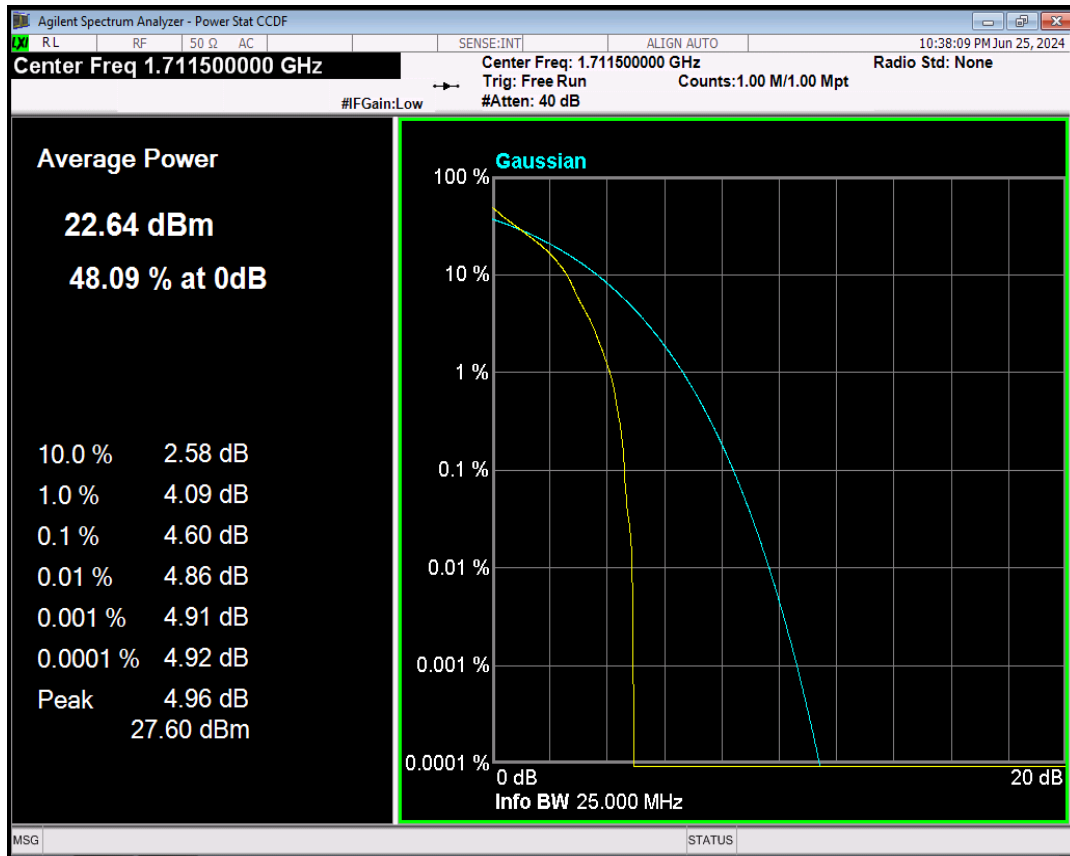
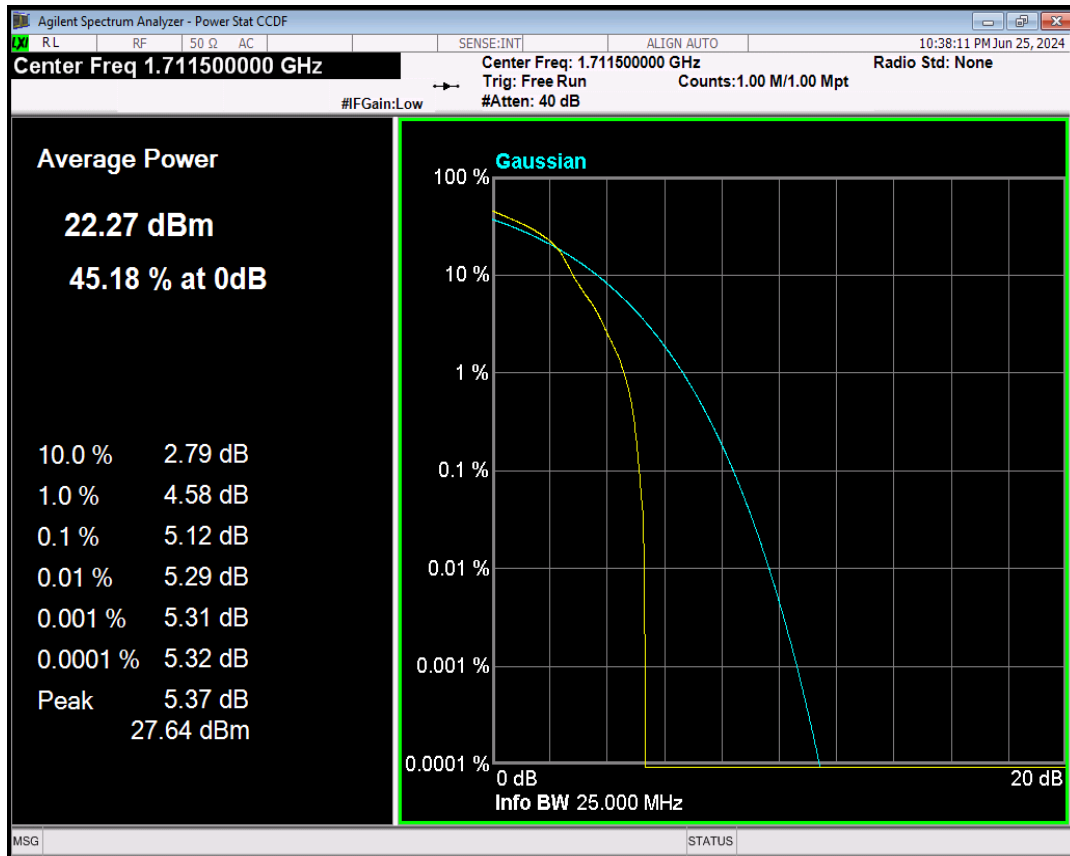




Band4 QPSK BW=3MHz Channel=19965 RB Size=1 Position=#0

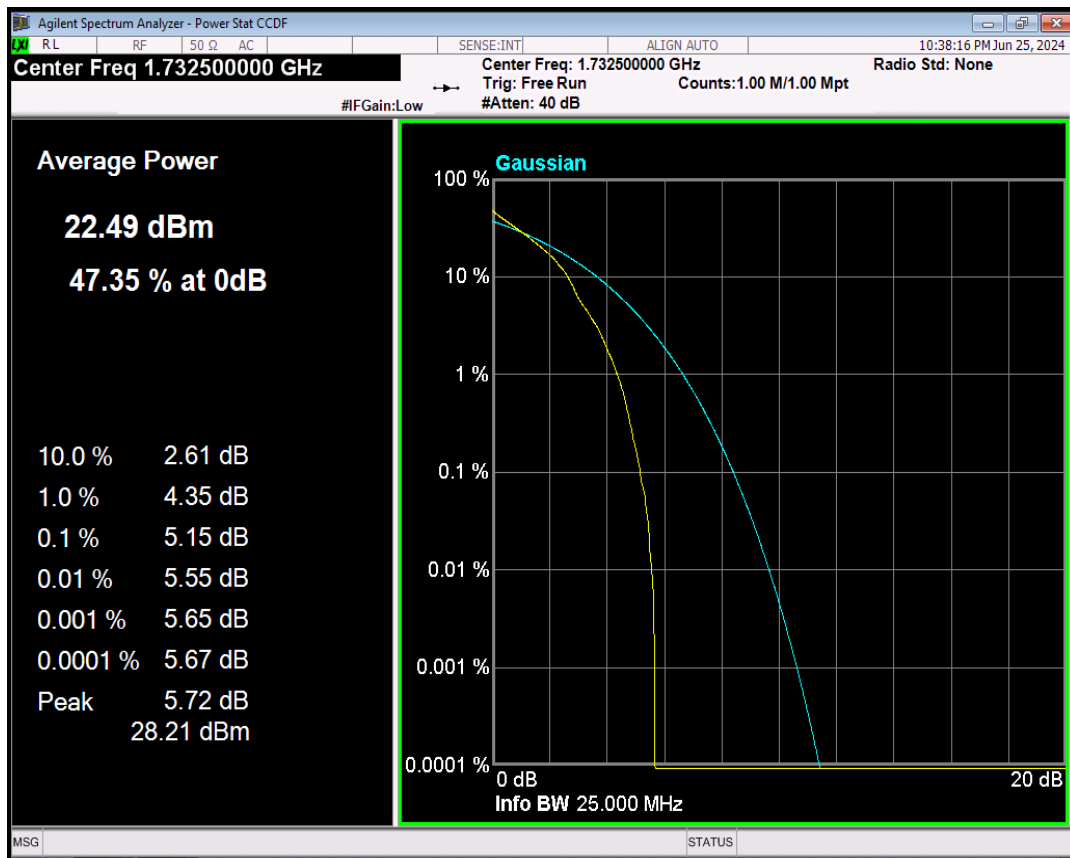


Band4 16QAM BW=3MHz Channel=19965 RB Size=1 Position=#0

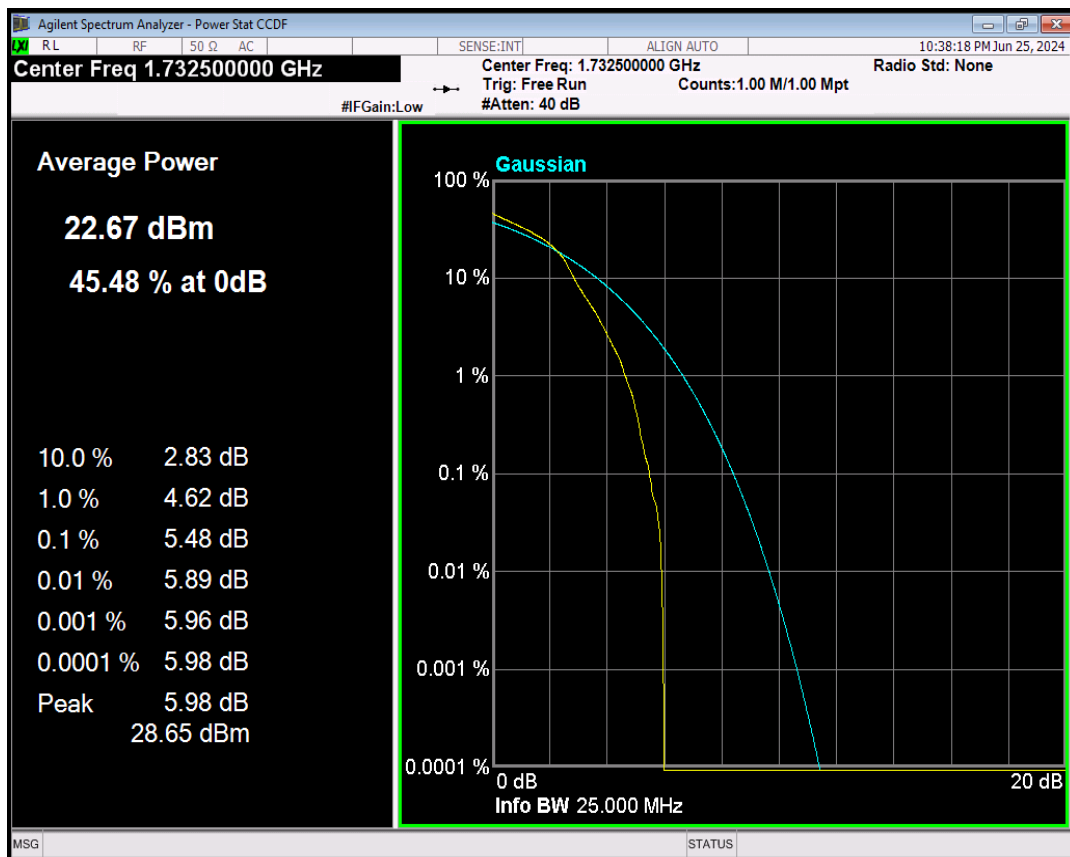




Band4 QPSK BW=3MHz Channel=20175 RB Size=1 Position=#0

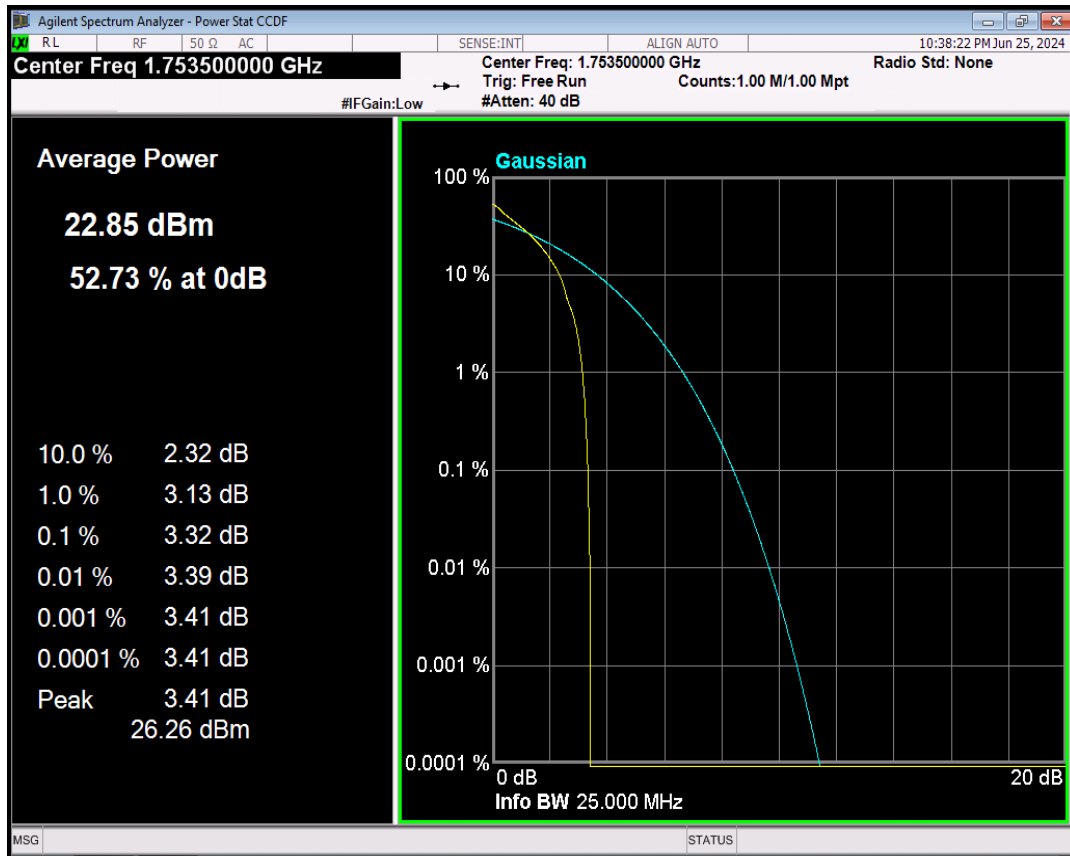


Band4 16QAM BW=3MHz Channel=20175 RB Size=1 Position=#0

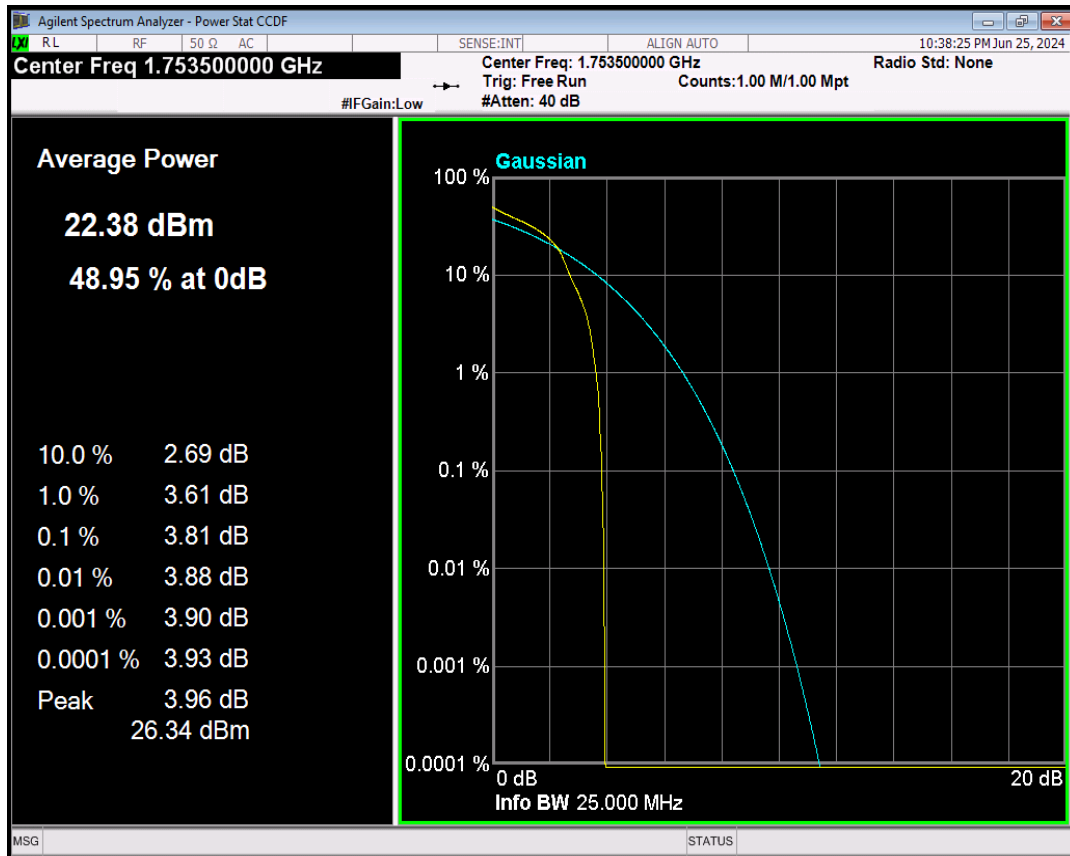




Band4 QPSK BW=3MHz Channel=20385 RB Size=1 Position=#0

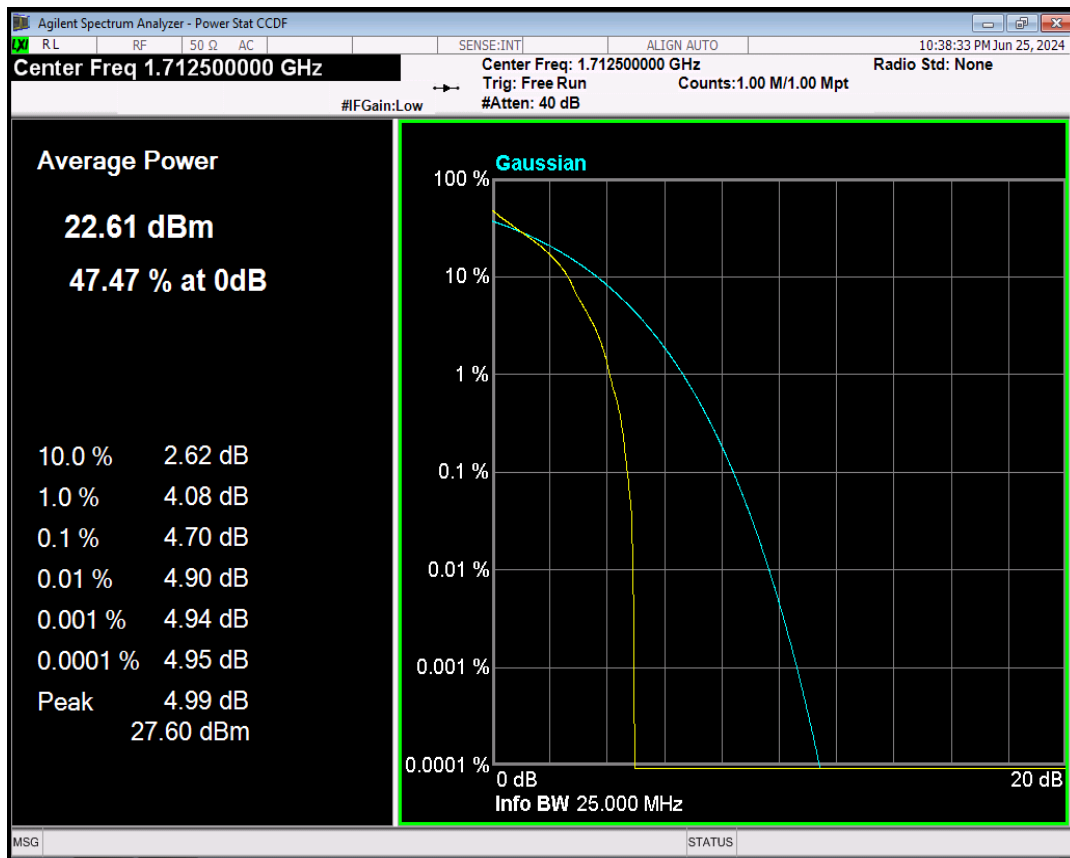


Band4 16QAM BW=3MHz Channel=20385 RB Size=1 Position=#0

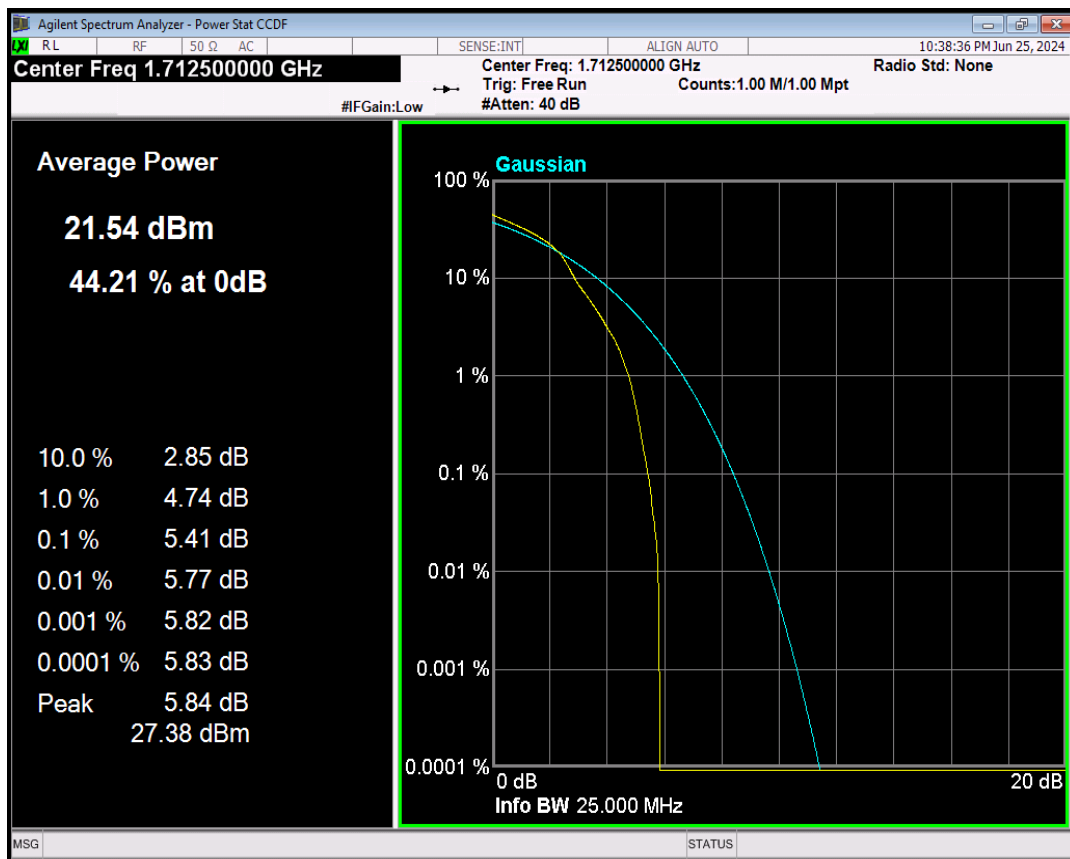




Band4 QPSK BW=5MHz Channel=19975 RB Size=1 Position=#0

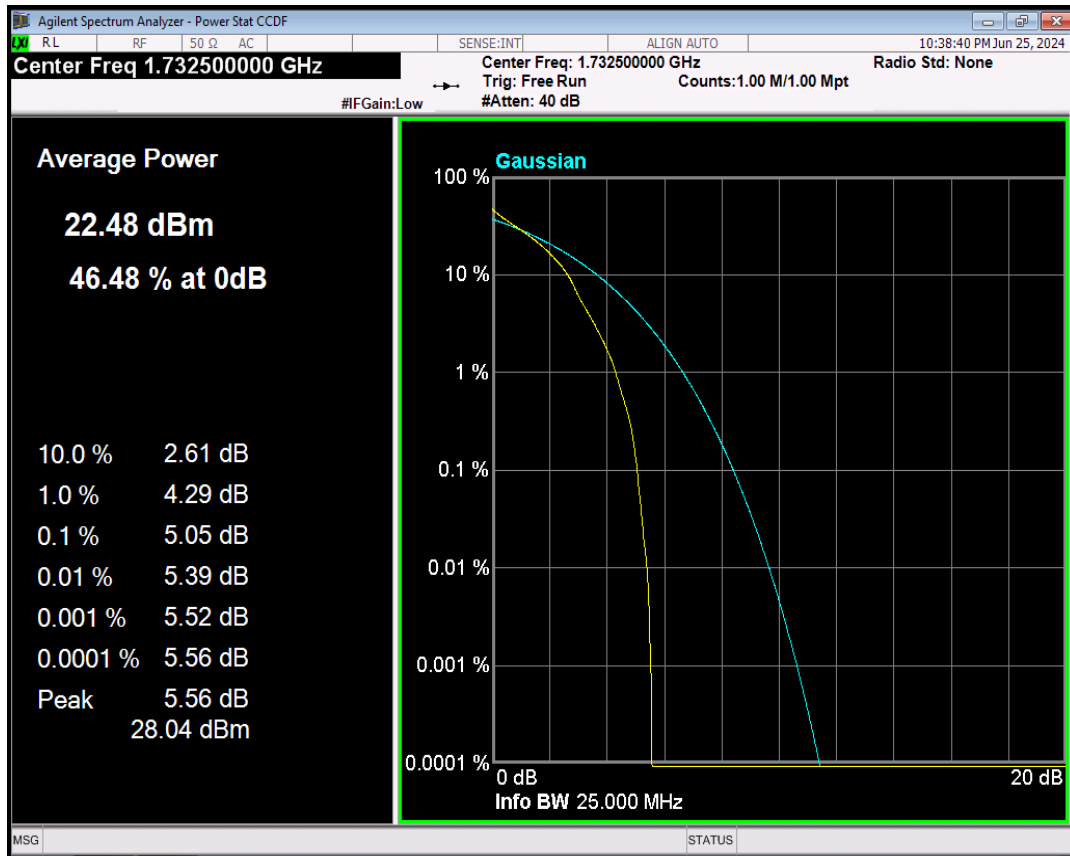


Band4 16QAM BW=5MHz Channel=19975 RB Size=1 Position=#0

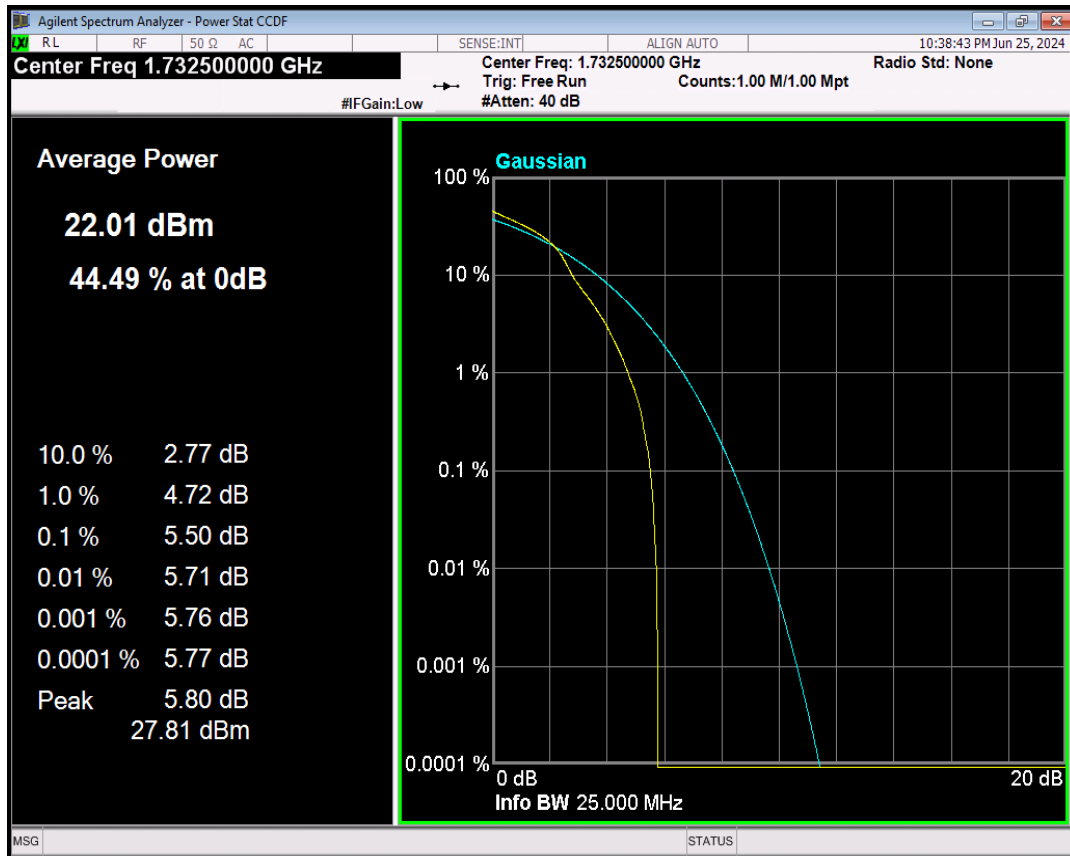




Band4 QPSK BW=5MHz Channel=20175 RB Size=1 Position=#0

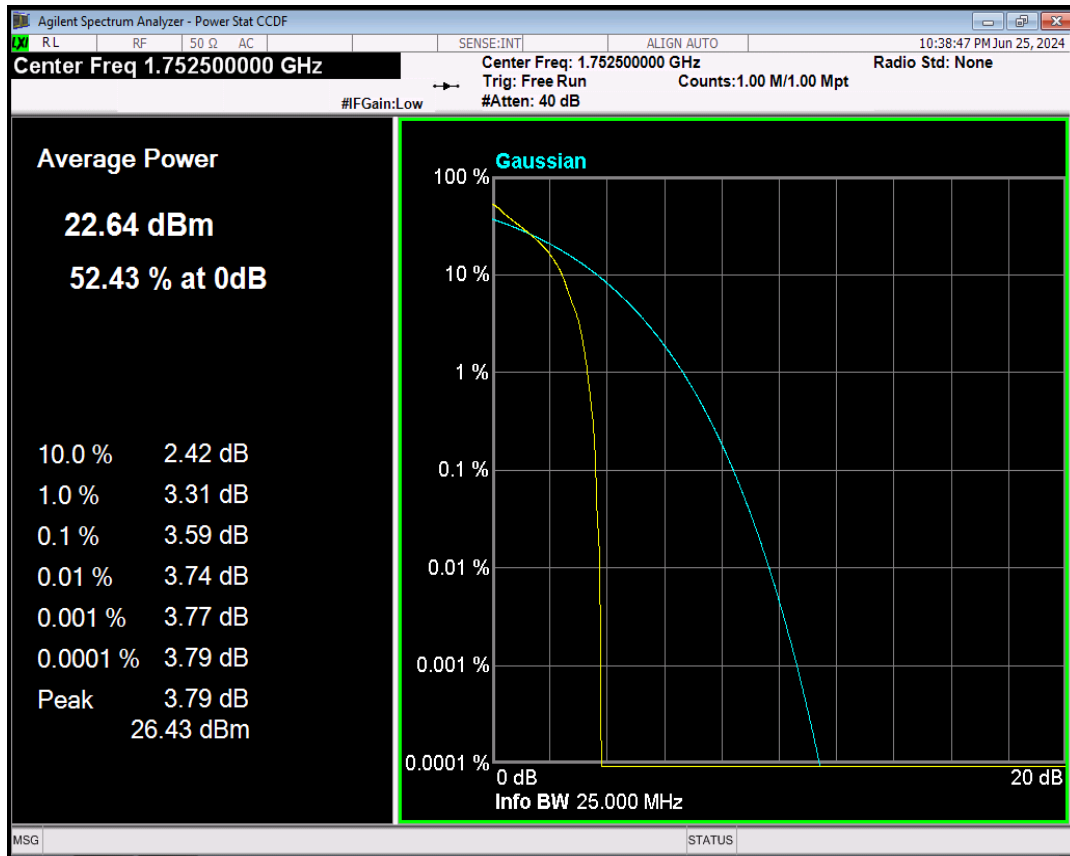


Band4 16QAM BW=5MHz Channel=20175 RB Size=1 Position=#0

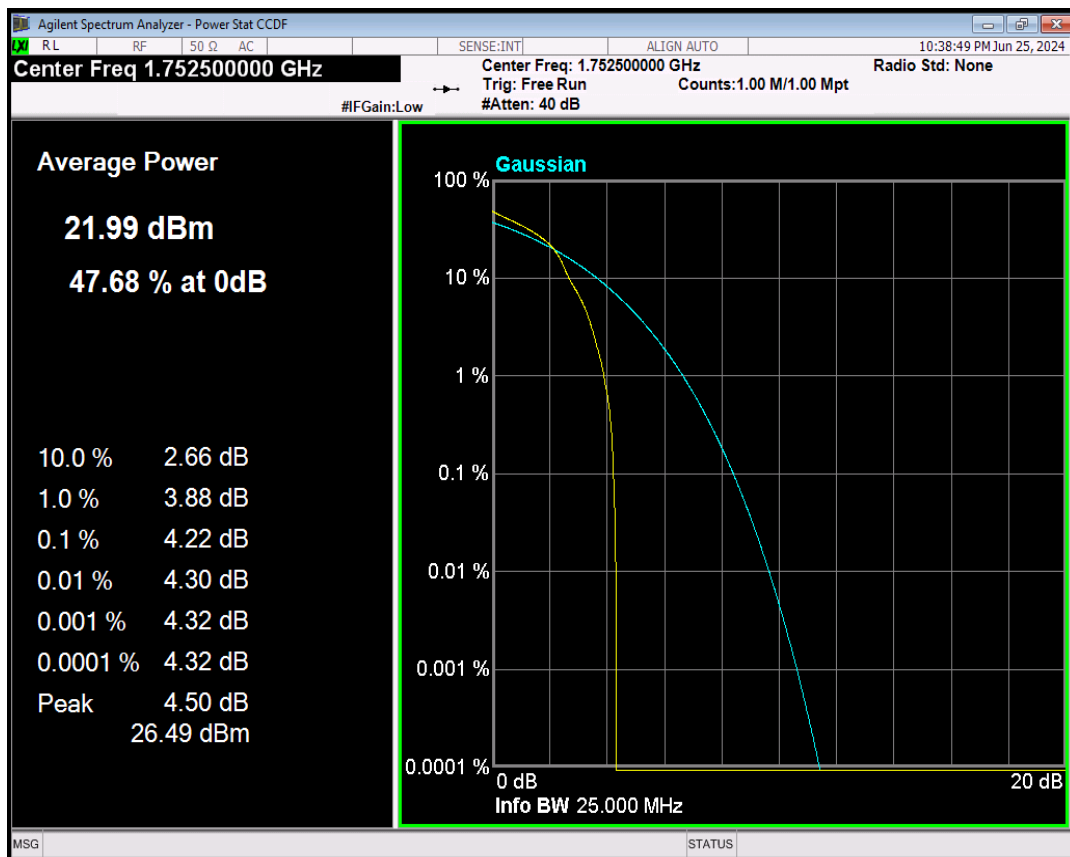




Band4 QPSK BW=5MHz Channel=20375 RB Size=1 Position=#0

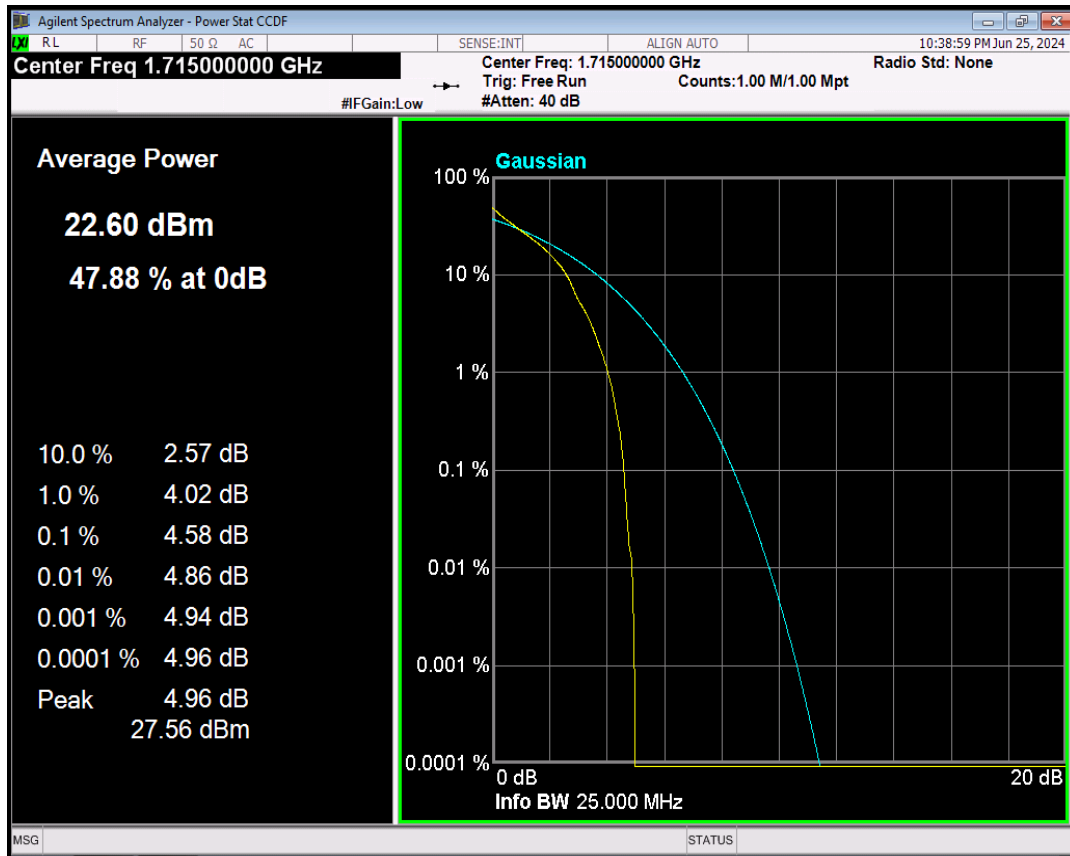


Band4 16QAM BW=5MHz Channel=20375 RB Size=1 Position=#0

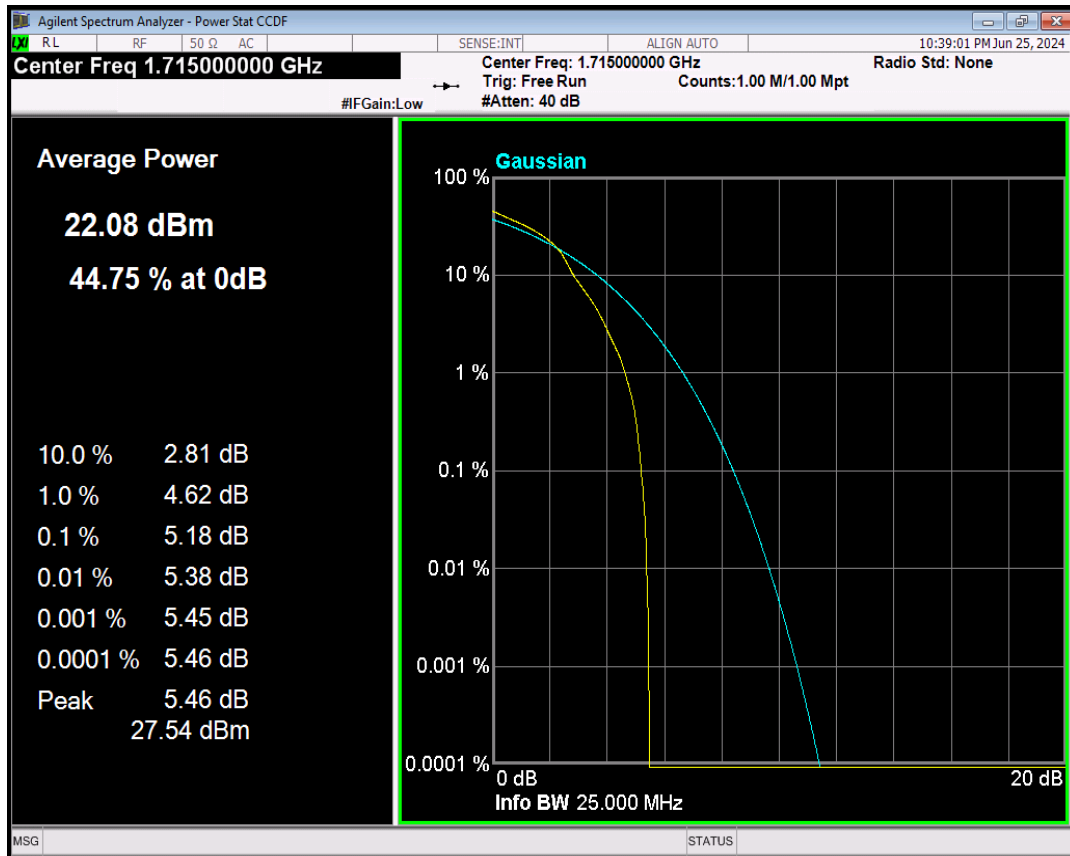




Band4 QPSK BW=10MHz Channel=20000 RB Size=1 Position=#0

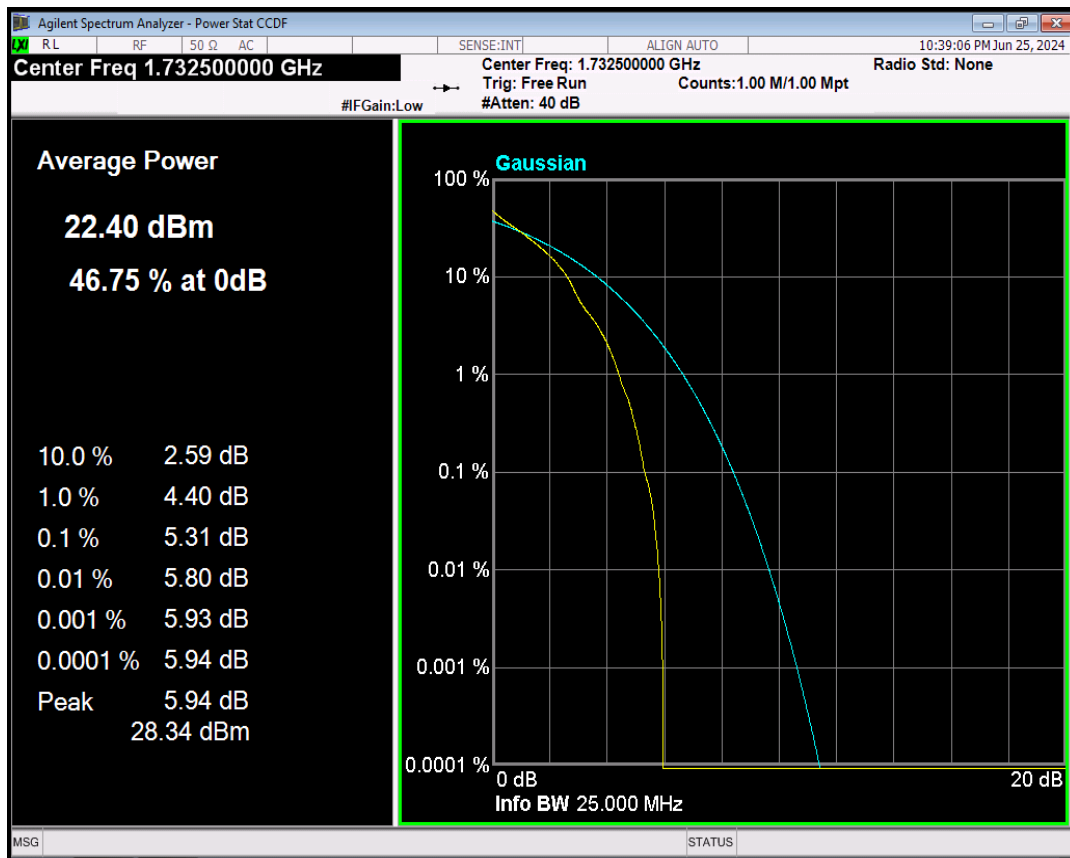


Band4 16QAM BW=10MHz Channel=20000 RB Size=1 Position=#0

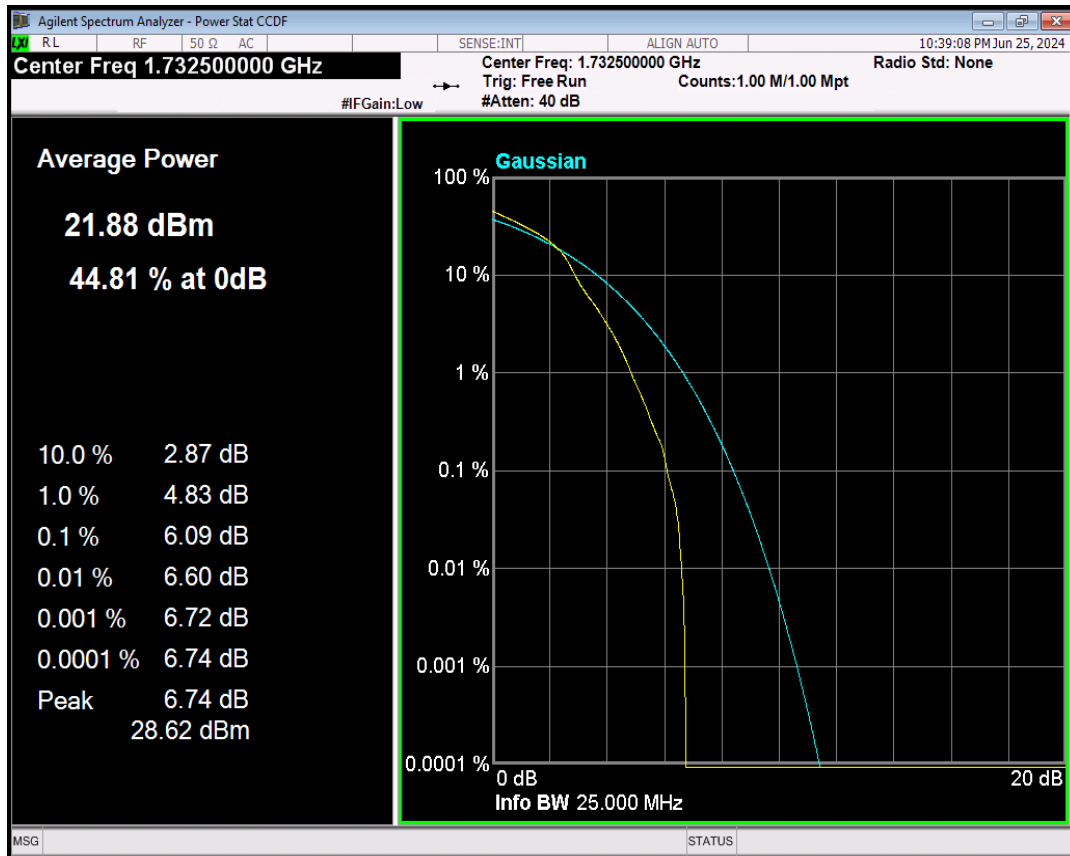




Band4 QPSK BW=10MHz Channel=20175 RB Size=1 Position=#0

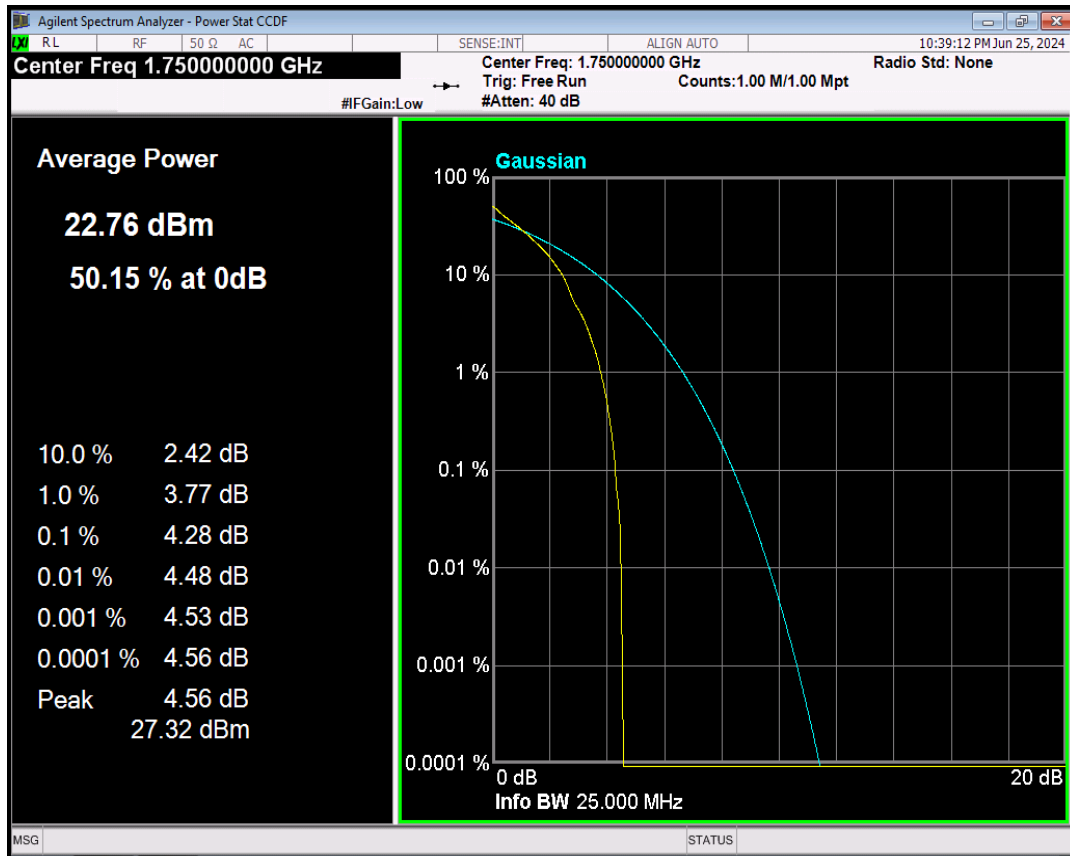


Band4 16QAM BW=10MHz Channel=20175 RB Size=1 Position=#0

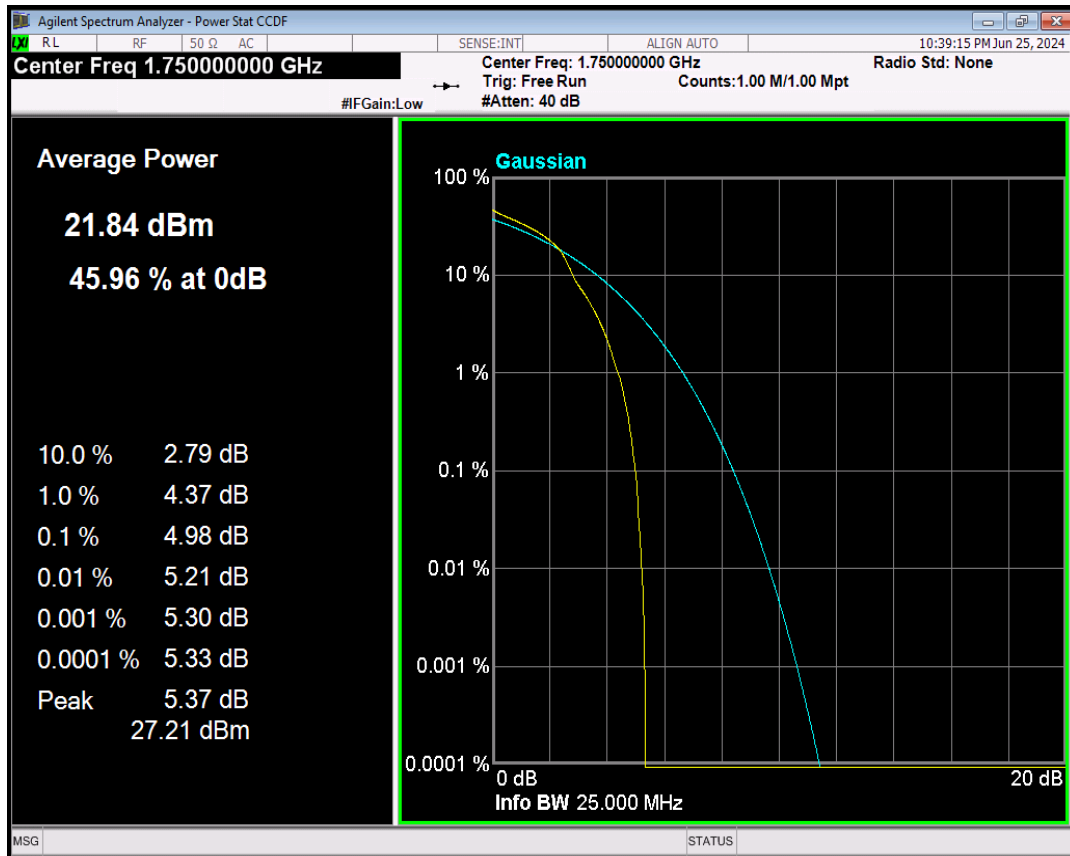




Band4 QPSK BW=10MHz Channel=20350 RB Size=1 Position=#0

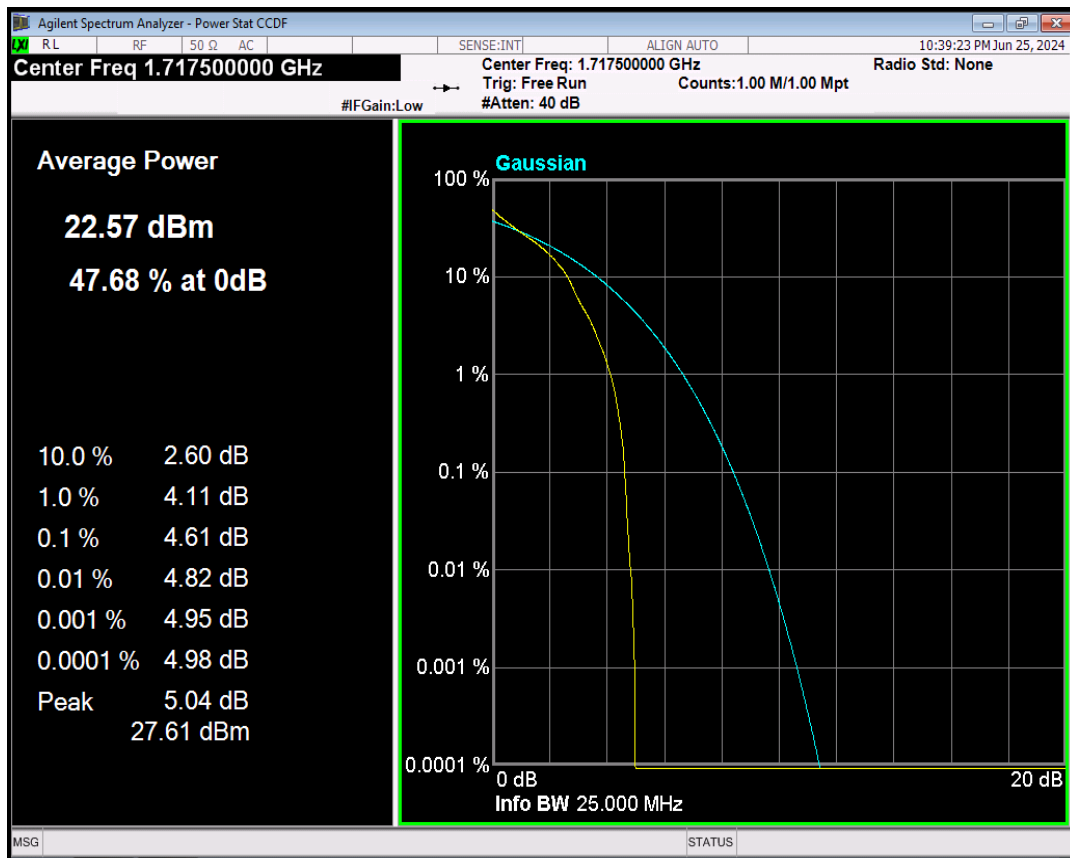


Band4 16QAM BW=10MHz Channel=20350 RB Size=1 Position=#0

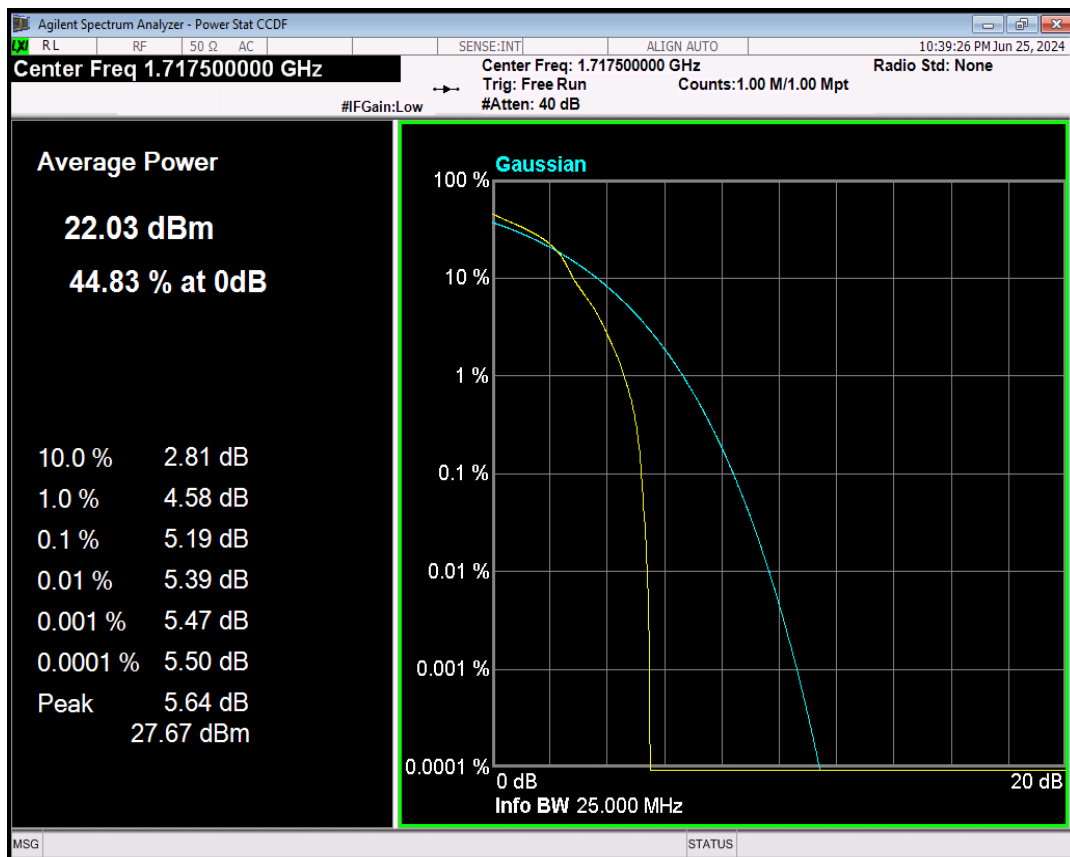




Band4 QPSK BW=15MHz Channel=20025 RB Size=1 Position=#0

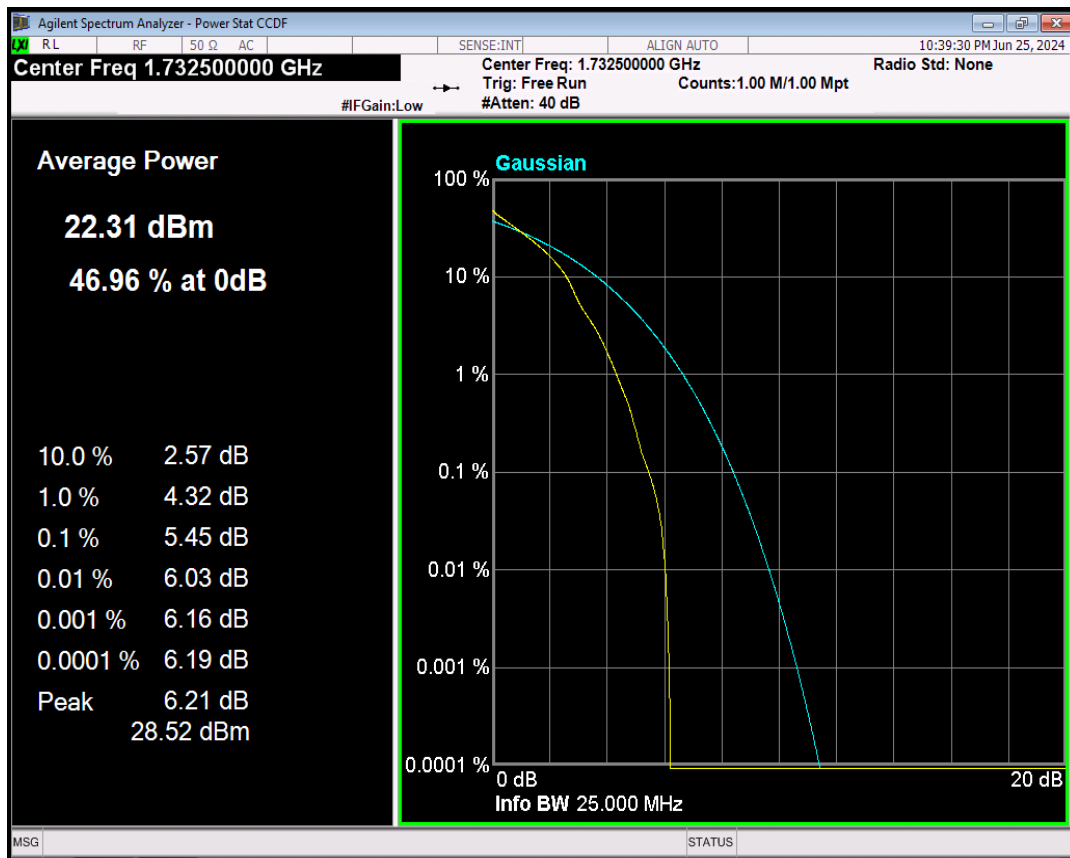


Band4 16QAM BW=15MHz Channel=20025 RB Size=1 Position=#0

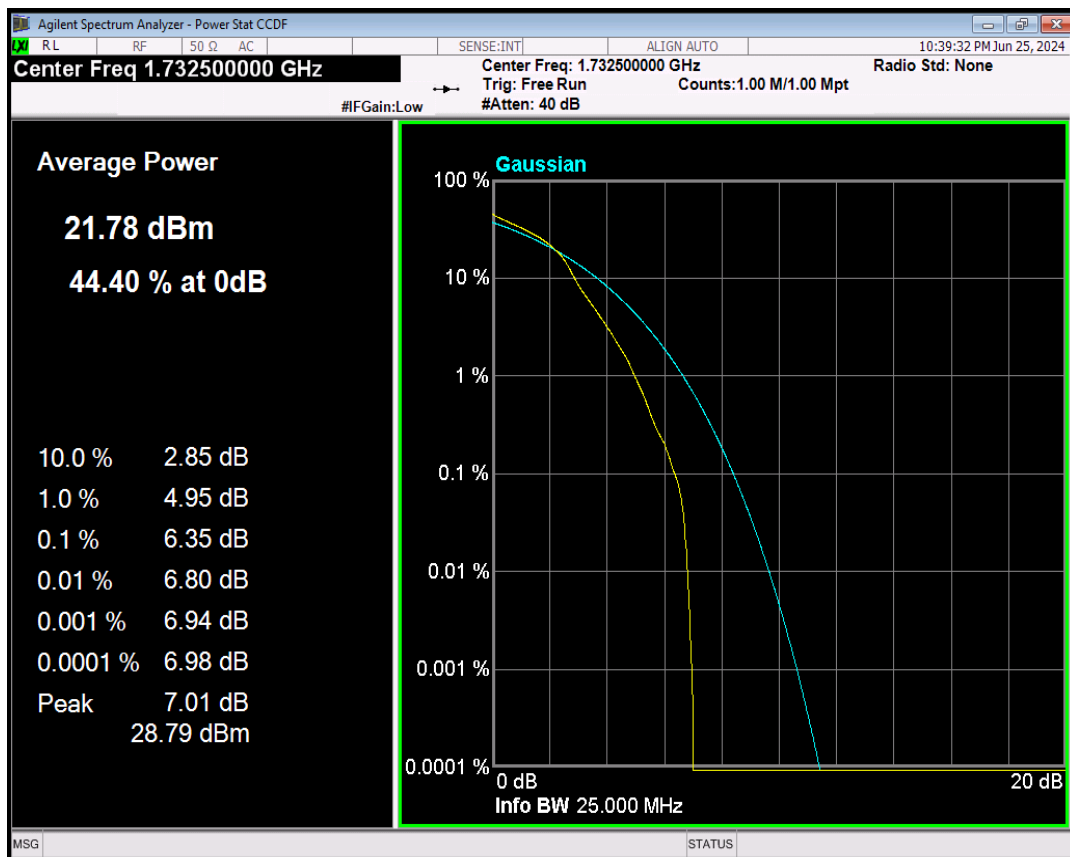




Band4 QPSK BW=15MHz Channel=20175 RB Size=1 Position=#0

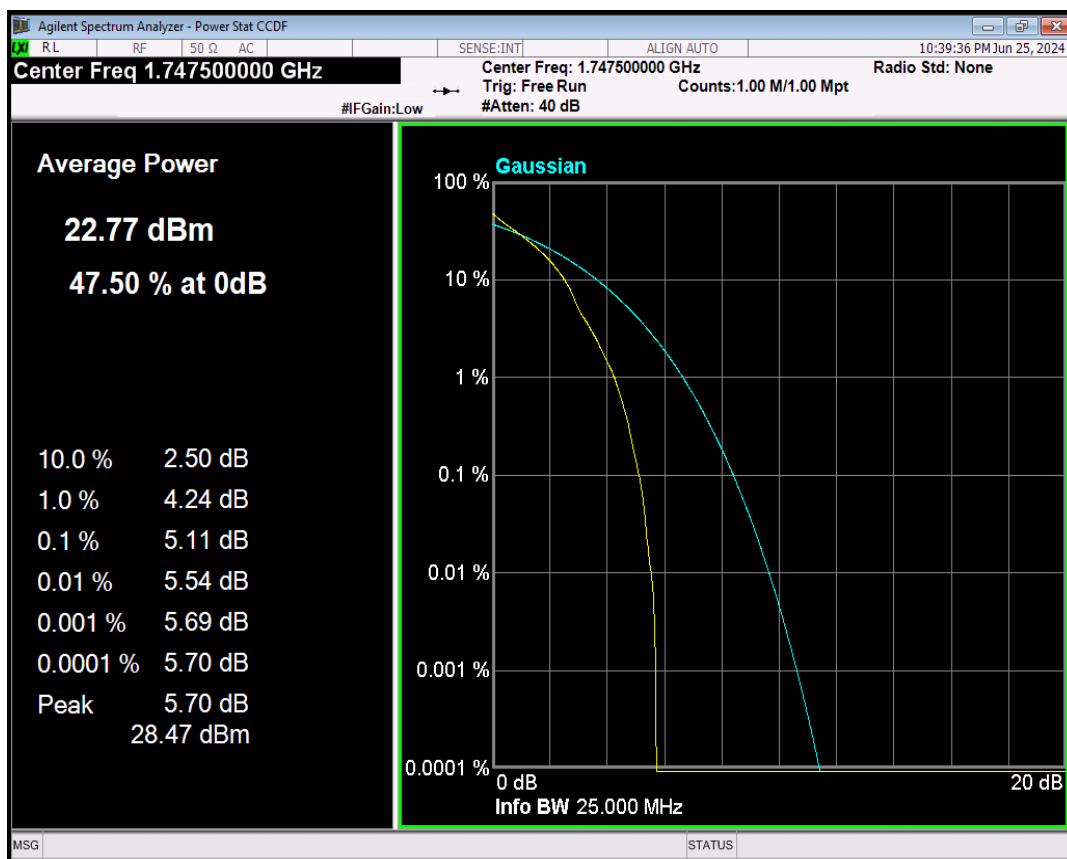


Band4 16QAM BW=15MHz Channel=20175 RB Size=1 Position=#0

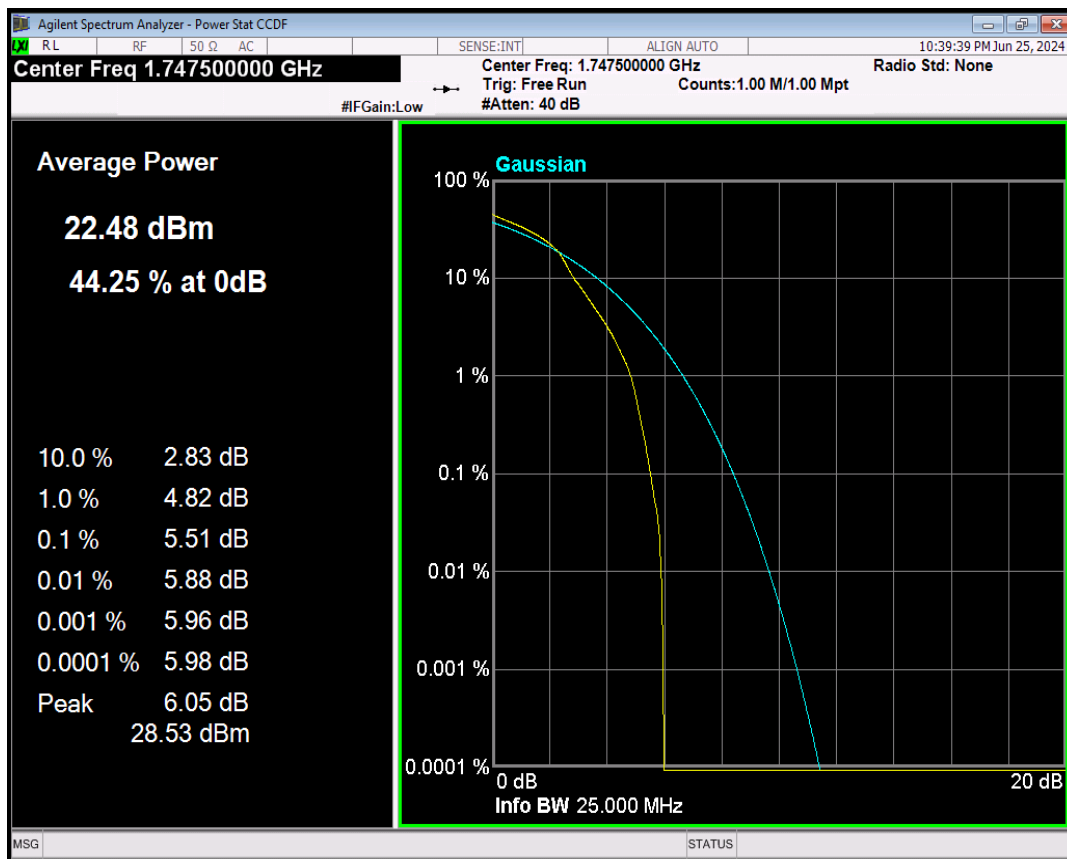




Band4 QPSK BW=15MHz Channel=20325 RB Size=1 Position=#0

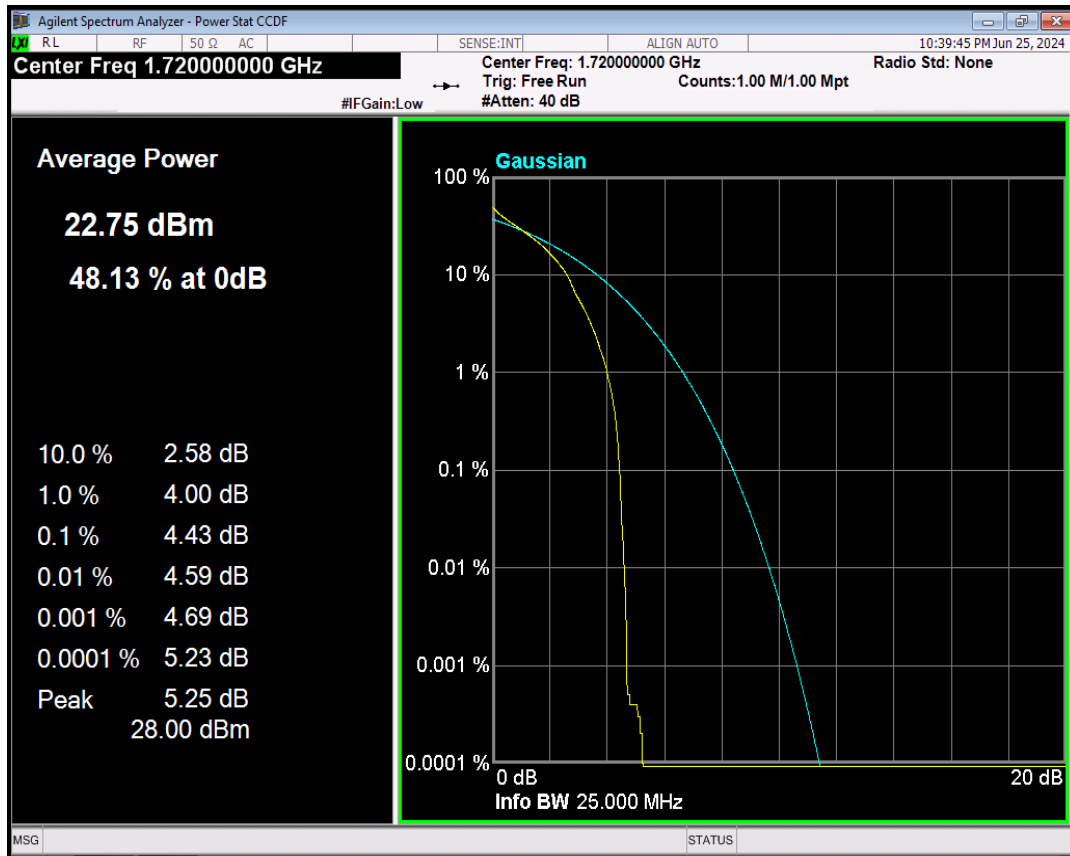


Band4 16QAM BW=15MHz Channel=20325 RB Size=1 Position=#0

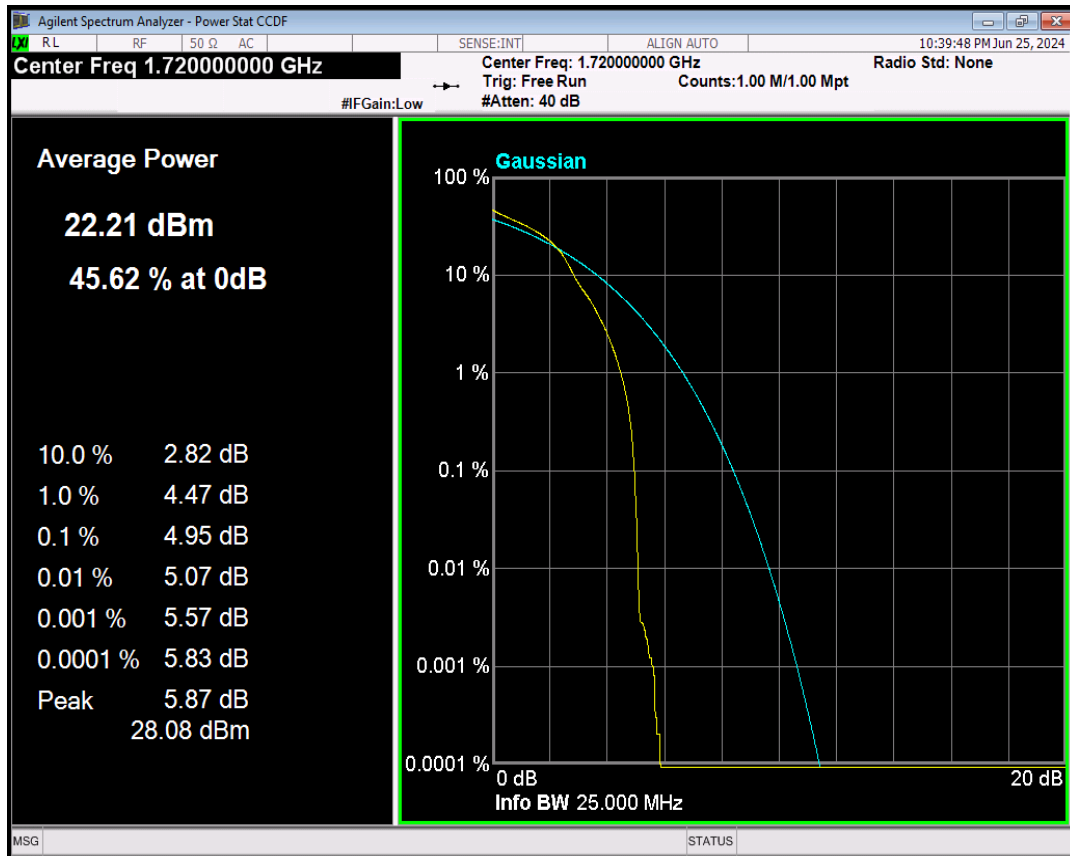




Band4 QPSK BW=20MHz Channel=20050 RB Size=1 Position=#0

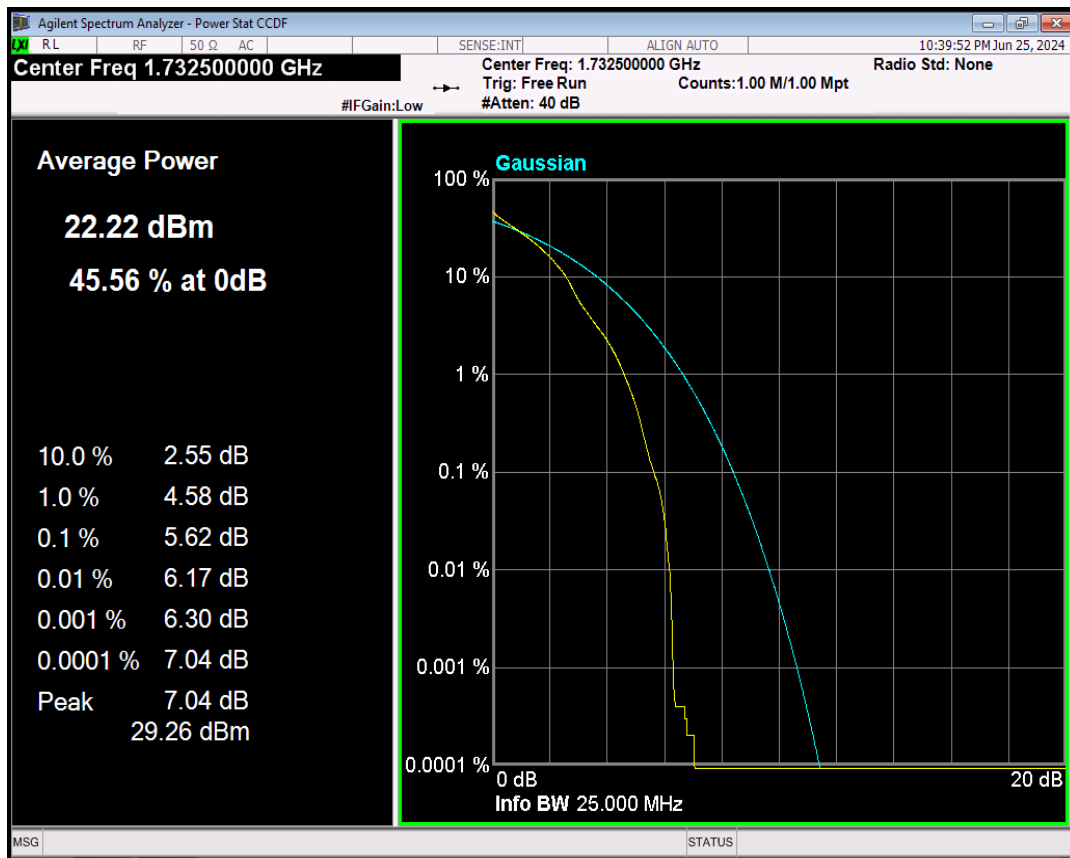


Band4 16QAM BW=20MHz Channel=20050 RB Size=1 Position=#0

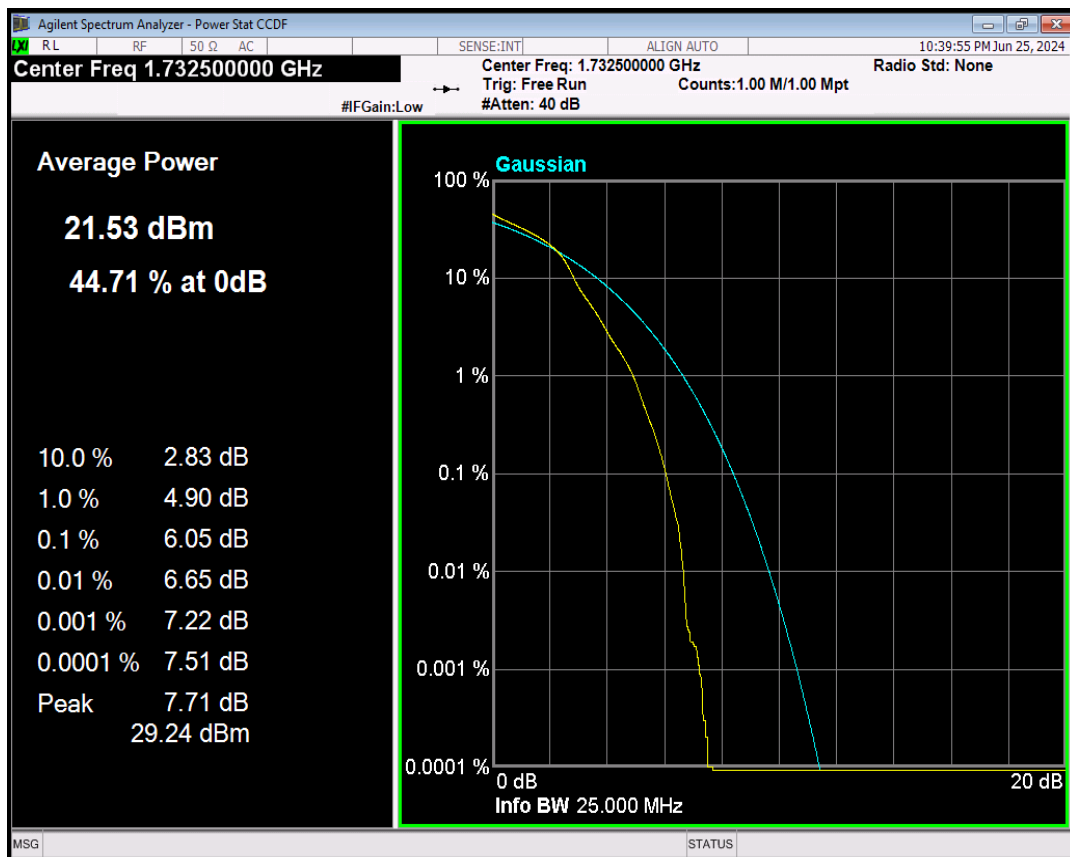




Band4 QPSK BW=20MHz Channel=20175 RB Size=1 Position=#0

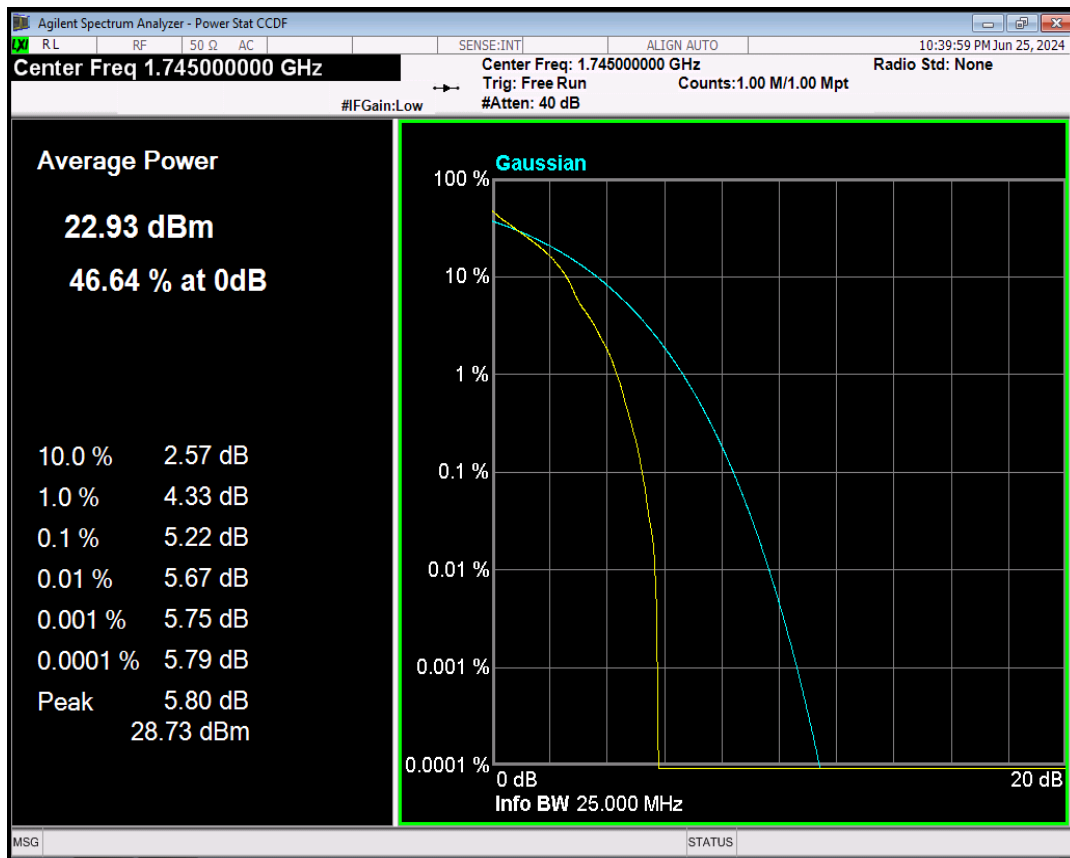


Band4 16QAM BW=20MHz Channel=20175 RB Size=1 Position=#0

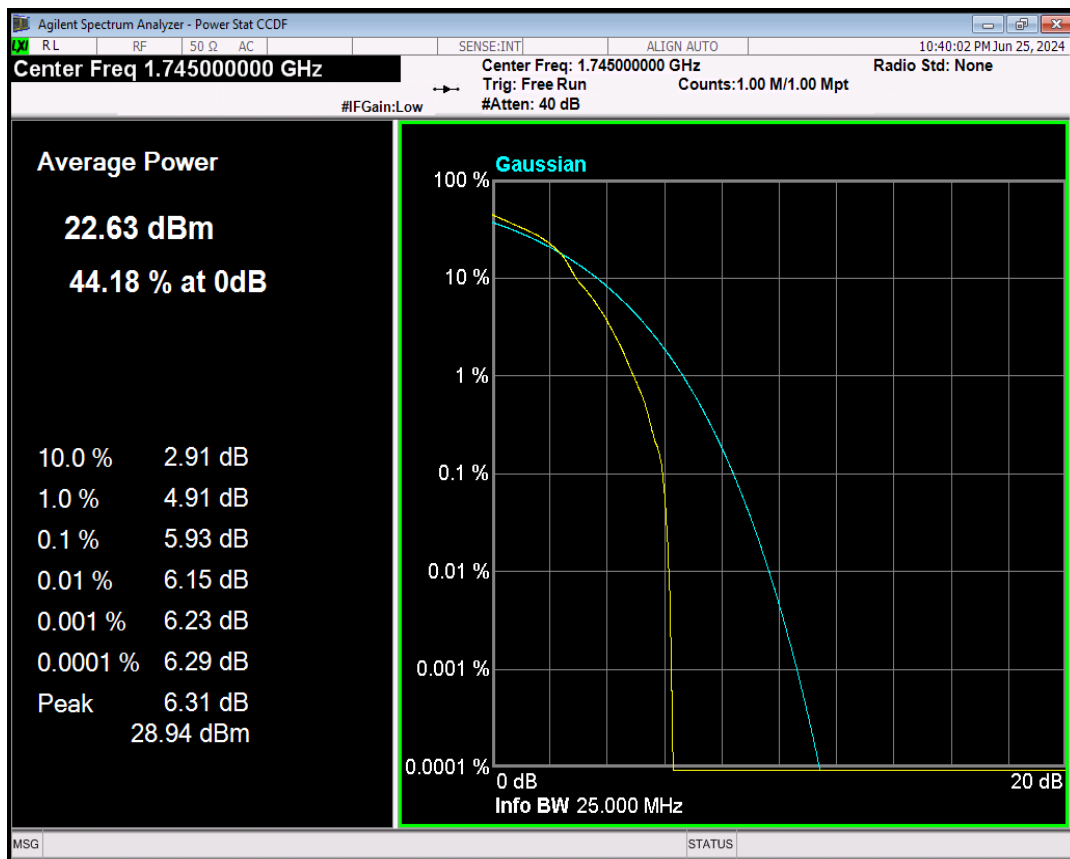




Band4 QPSK BW=20MHz Channel=20300 RB Size=1 Position=#0



Band4 16QAM BW=20MHz Channel=20300 RB Size=1 Position=#0

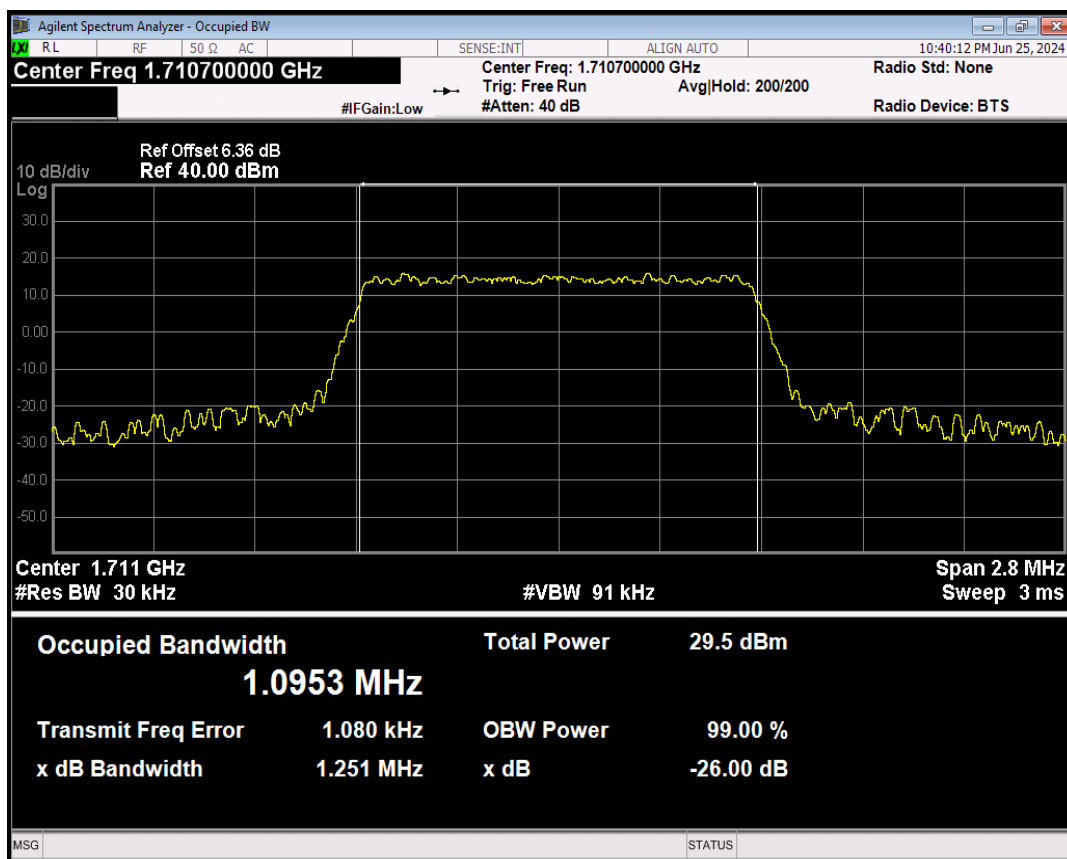


Appendix 4. Occupied bandwidth

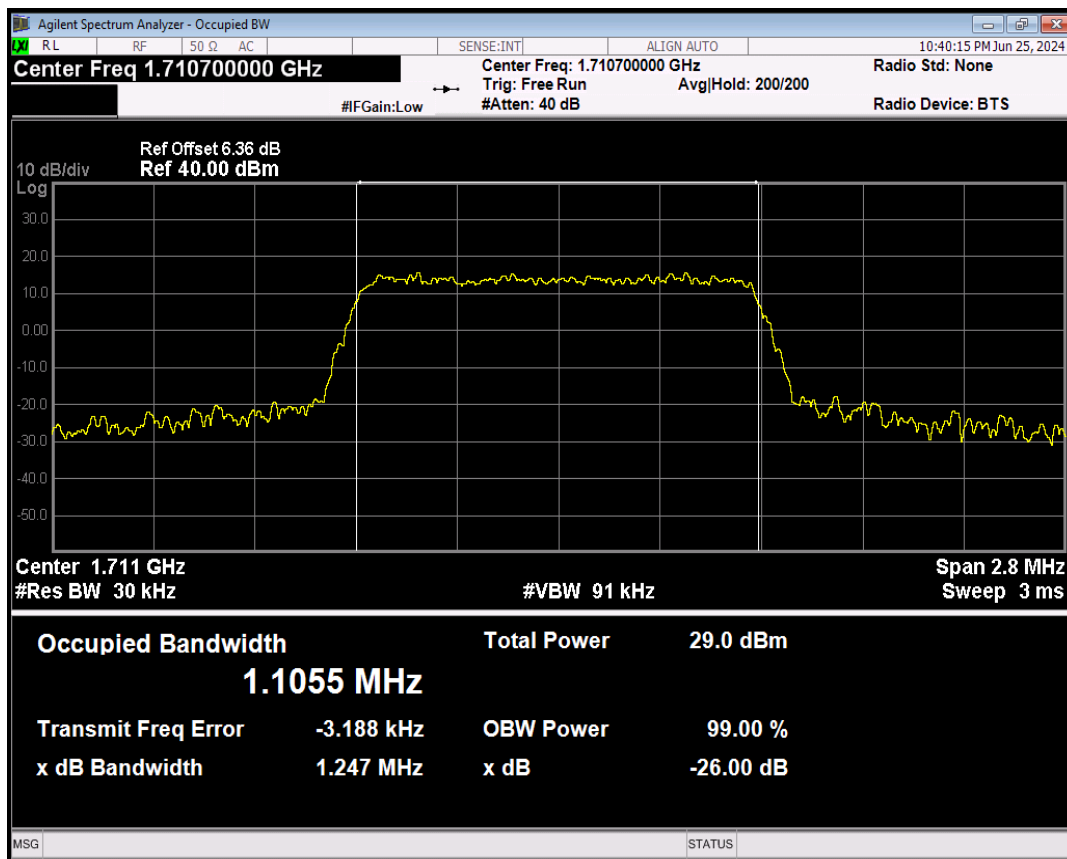
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
Band4	1.4	19957	6	#0	QPSK	1.095	1.251	PASS
Band4	1.4	19957	6	#0	16QAM	1.106	1.247	PASS
Band4	1.4	20175	6	#0	QPSK	1.093	1.247	PASS
Band4	1.4	20175	6	#0	16QAM	1.092	1.254	PASS
Band4	1.4	20393	6	#0	QPSK	1.100	1.253	PASS
Band4	1.4	20393	6	#0	16QAM	1.105	1.244	PASS
Band4	3	19965	15	#0	QPSK	2.701	3.036	PASS
Band4	3	19965	15	#0	16QAM	2.709	3.036	PASS
Band4	3	20175	15	#0	QPSK	2.710	3.045	PASS
Band4	3	20175	15	#0	16QAM	2.708	3.052	PASS
Band4	3	20385	15	#0	QPSK	2.715	3.037	PASS
Band4	3	20385	15	#0	16QAM	2.702	3.064	PASS
Band4	5	19975	25	#0	QPSK	4.523	4.953	PASS
Band4	5	19975	25	#0	16QAM	4.521	4.918	PASS
Band4	5	20175	25	#0	QPSK	4.511	4.964	PASS
Band4	5	20175	25	#0	16QAM	4.513	4.914	PASS
Band4	5	20375	25	#0	QPSK	4.519	4.974	PASS
Band4	5	20375	25	#0	16QAM	4.525	4.962	PASS
Band4	10	20000	50	#0	QPSK	8.974	9.810	PASS
Band4	10	20000	50	#0	16QAM	8.998	9.750	PASS
Band4	10	20175	50	#0	QPSK	8.982	9.818	PASS
Band4	10	20175	50	#0	16QAM	8.994	9.723	PASS
Band4	10	20350	50	#0	QPSK	8.982	9.855	PASS
Band4	10	20350	50	#0	16QAM	9.011	9.858	PASS
Band4	15	20025	75	#0	QPSK	13.526	14.960	PASS
Band4	15	20025	75	#0	16QAM	13.531	14.780	PASS
Band4	15	20175	75	#0	QPSK	13.393	14.692	PASS
Band4	15	20175	75	#0	16QAM	13.462	14.858	PASS
Band4	15	20325	75	#0	QPSK	13.430	14.774	PASS
Band4	15	20325	75	#0	16QAM	13.445	14.579	PASS
Band4	20	20050	100	#0	QPSK	18.031	19.509	PASS
Band4	20	20050	100	#0	16QAM	18.090	19.608	PASS
Band4	20	20175	100	#0	QPSK	17.866	19.588	PASS
Band4	20	20175	100	#0	16QAM	17.896	19.562	PASS
Band4	20	20300	100	#0	QPSK	17.952	19.697	PASS
Band4	20	20300	100	#0	16QAM	17.999	19.674	PASS



Band4 QPSK BW=1.4MHz Channel=19957 RB Size=6 Position=#0

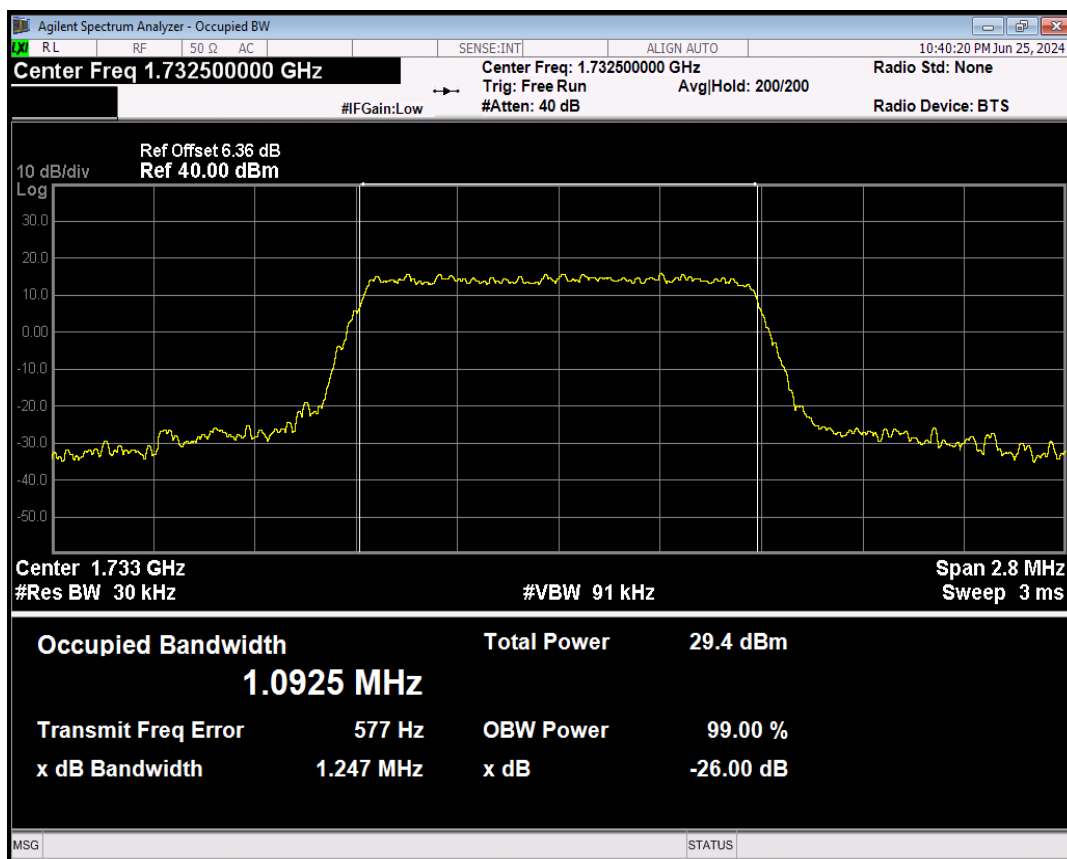


Band4 16QAM BW=1.4MHz Channel=19957 RB Size=6 Position=#0

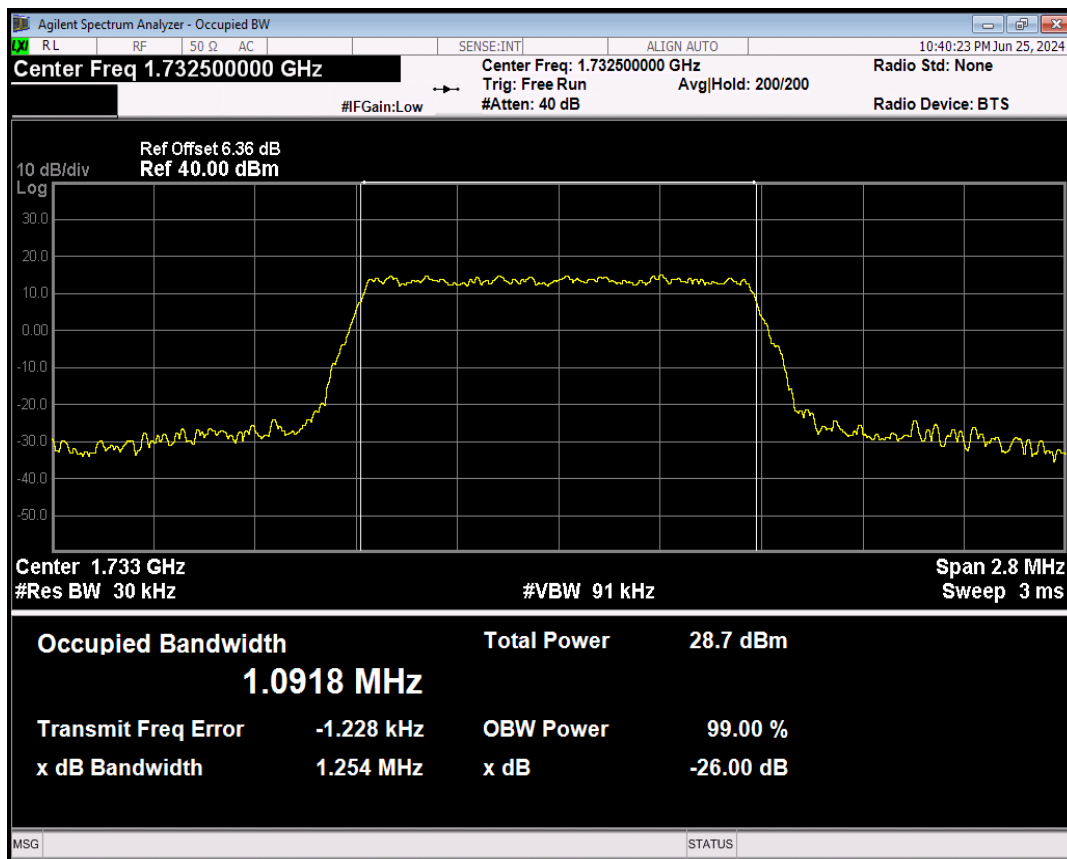




Band4 QPSK BW=1.4MHz Channel=20175 RB Size=6 Position=#0

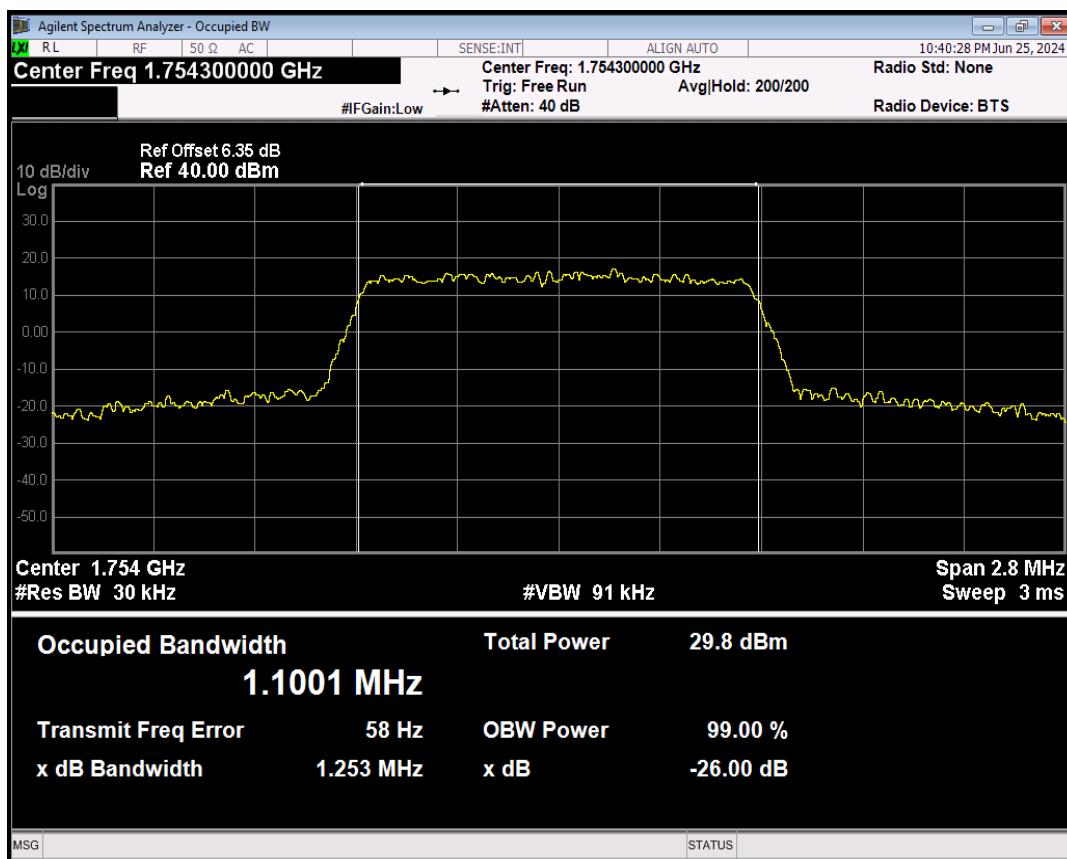


Band4 16QAM BW=1.4MHz Channel=20175 RB Size=6 Position=#0

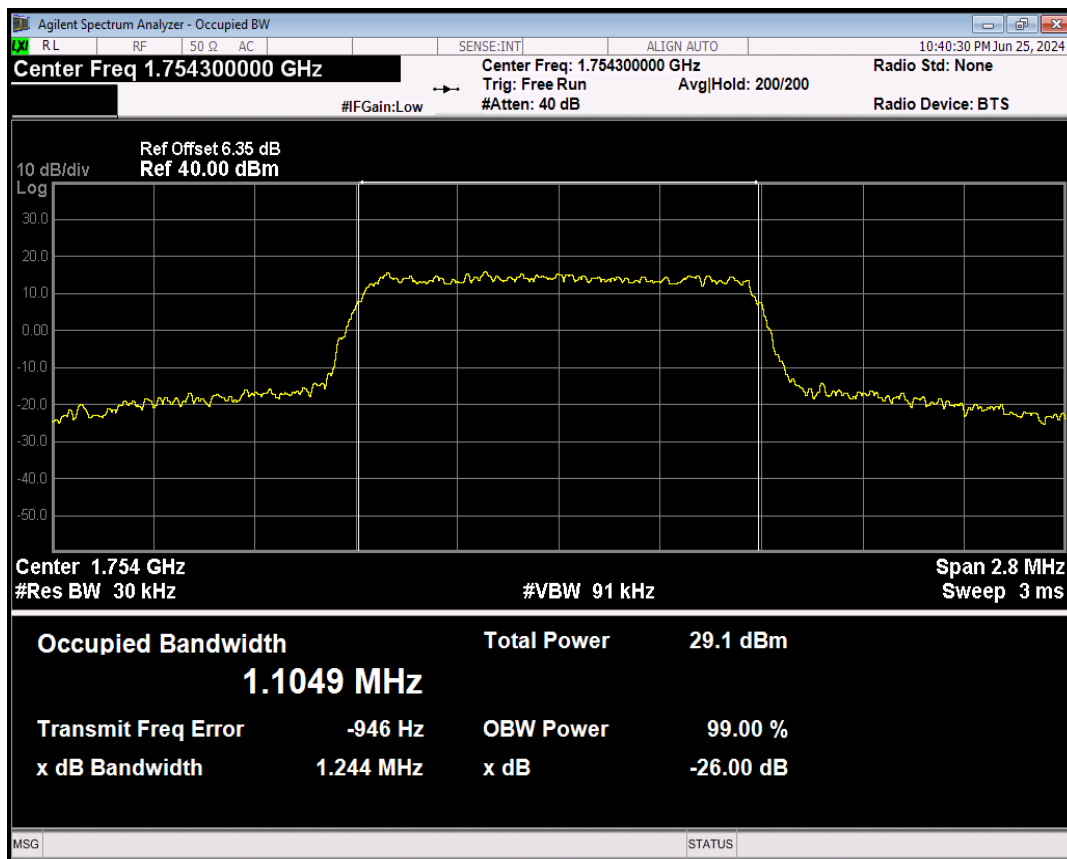




Band4 QPSK BW=1.4MHz Channel=20393 RB Size=6 Position=#0

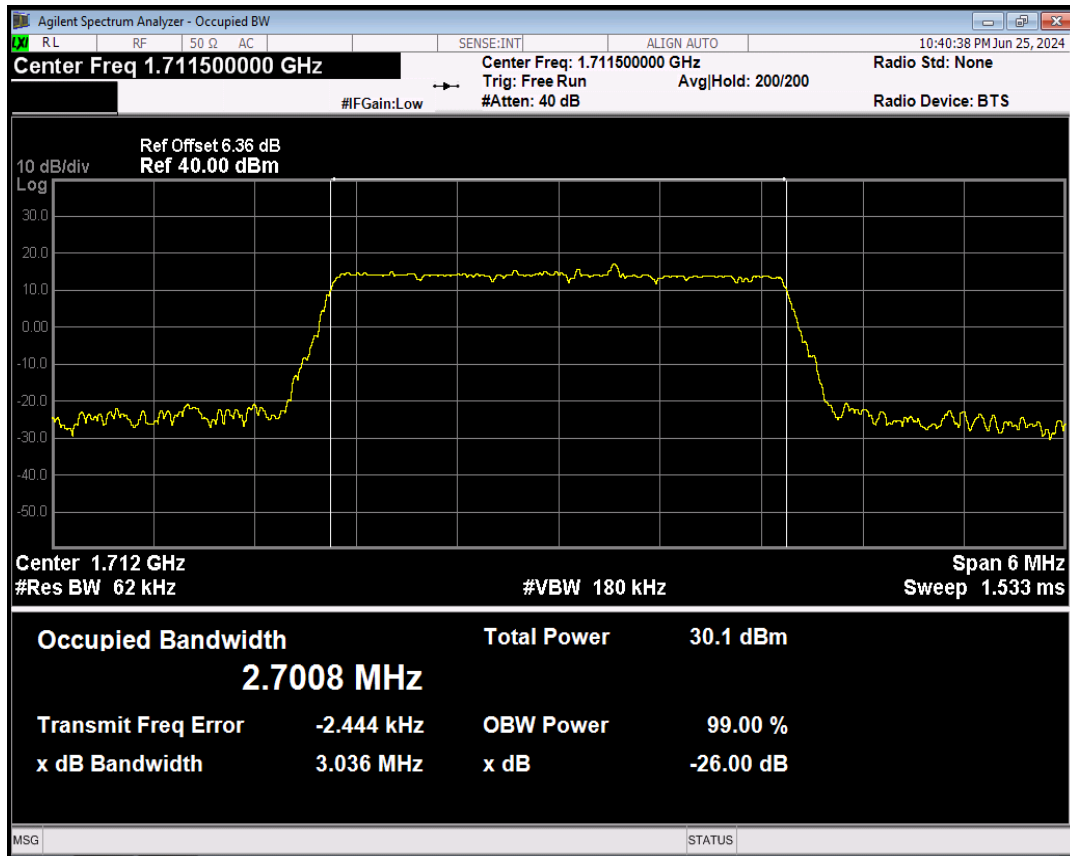


Band4 16QAM BW=1.4MHz Channel=20393 RB Size=6 Position=#0

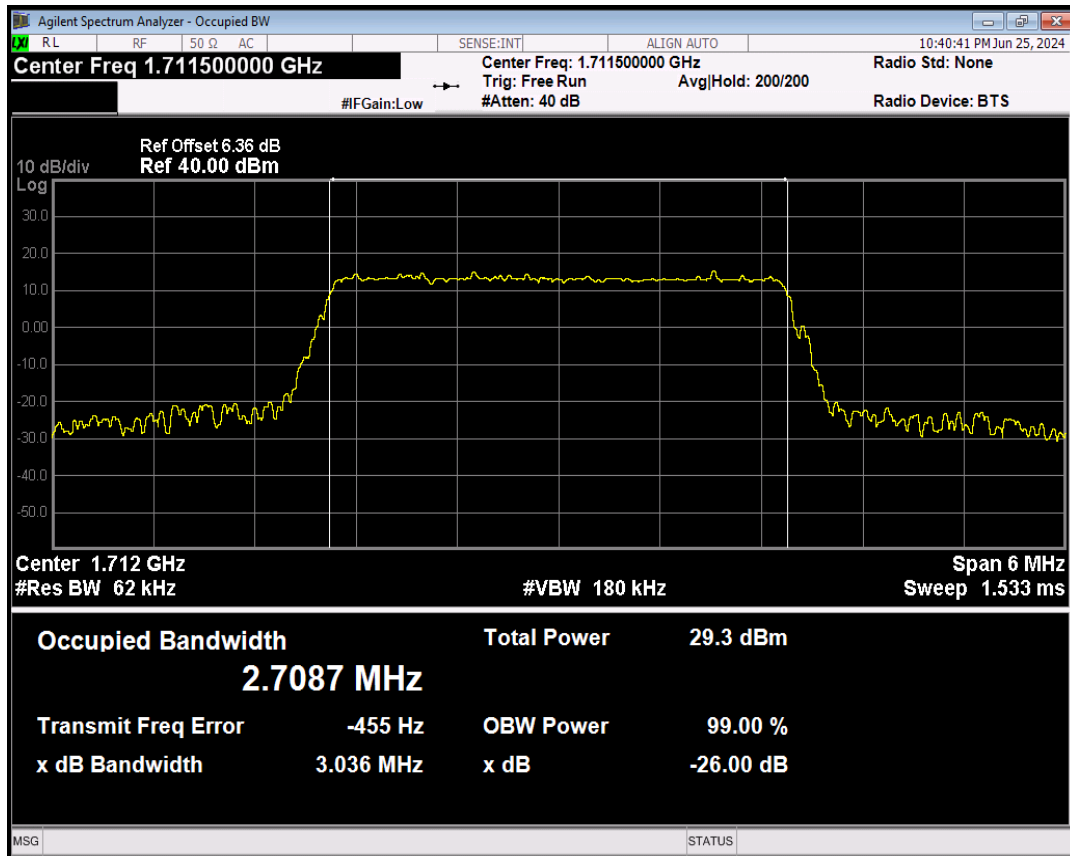




Band4 QPSK BW=3MHz Channel=19965 RB Size=15 Position=#0

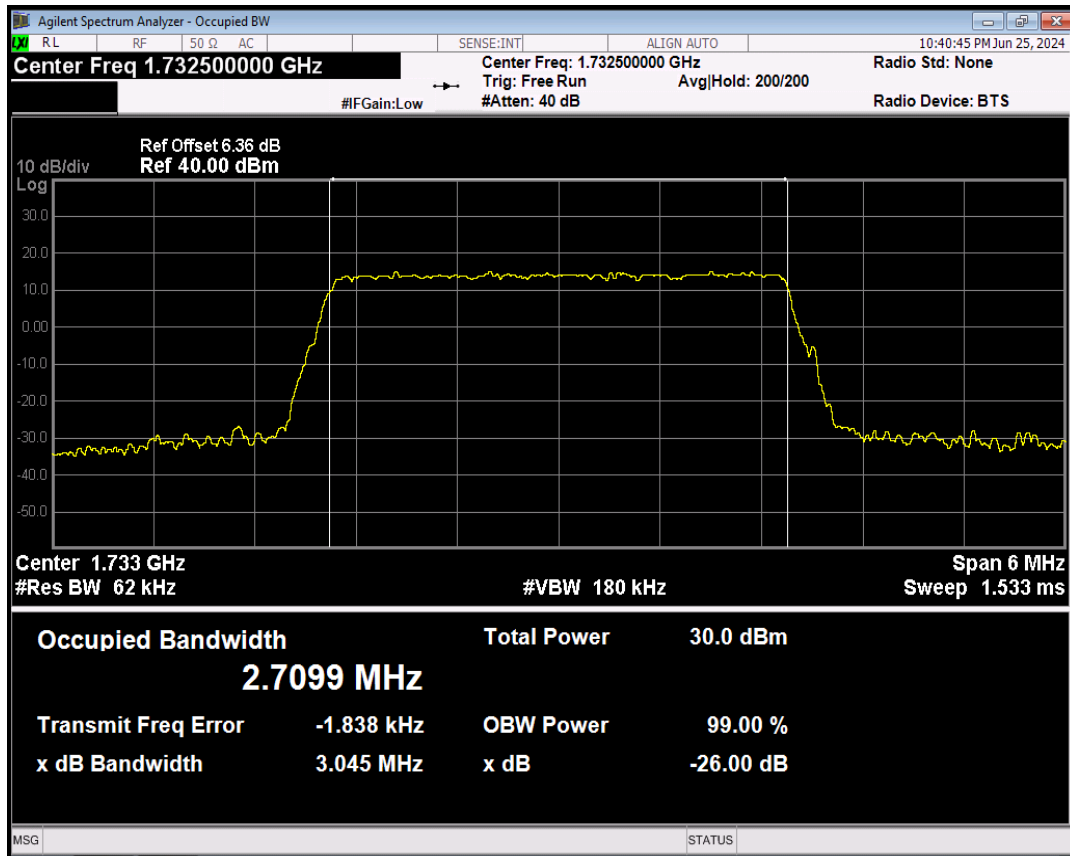


Band4 16QAM BW=3MHz Channel=19965 RB Size=15 Position=#0

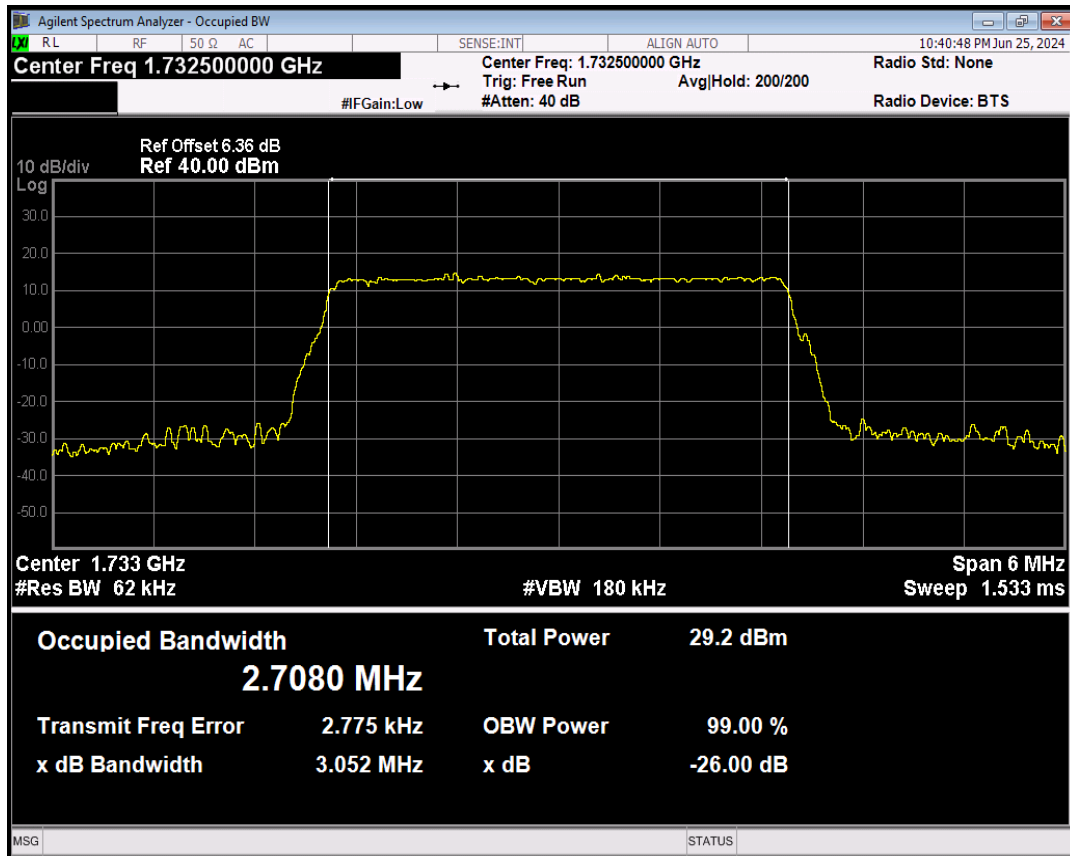




Band4 QPSK BW=3MHz Channel=20175 RB Size=15 Position=#0

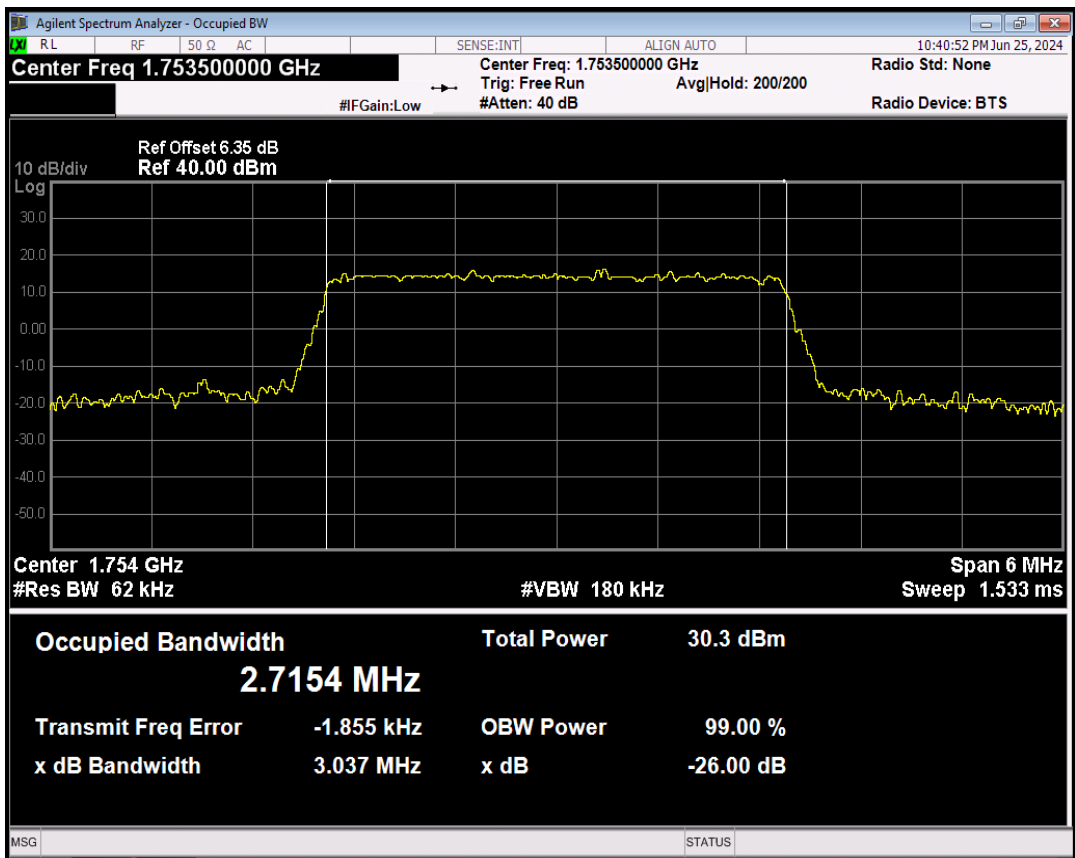


Band4 16QAM BW=3MHz Channel=20175 RB Size=15 Position=#0

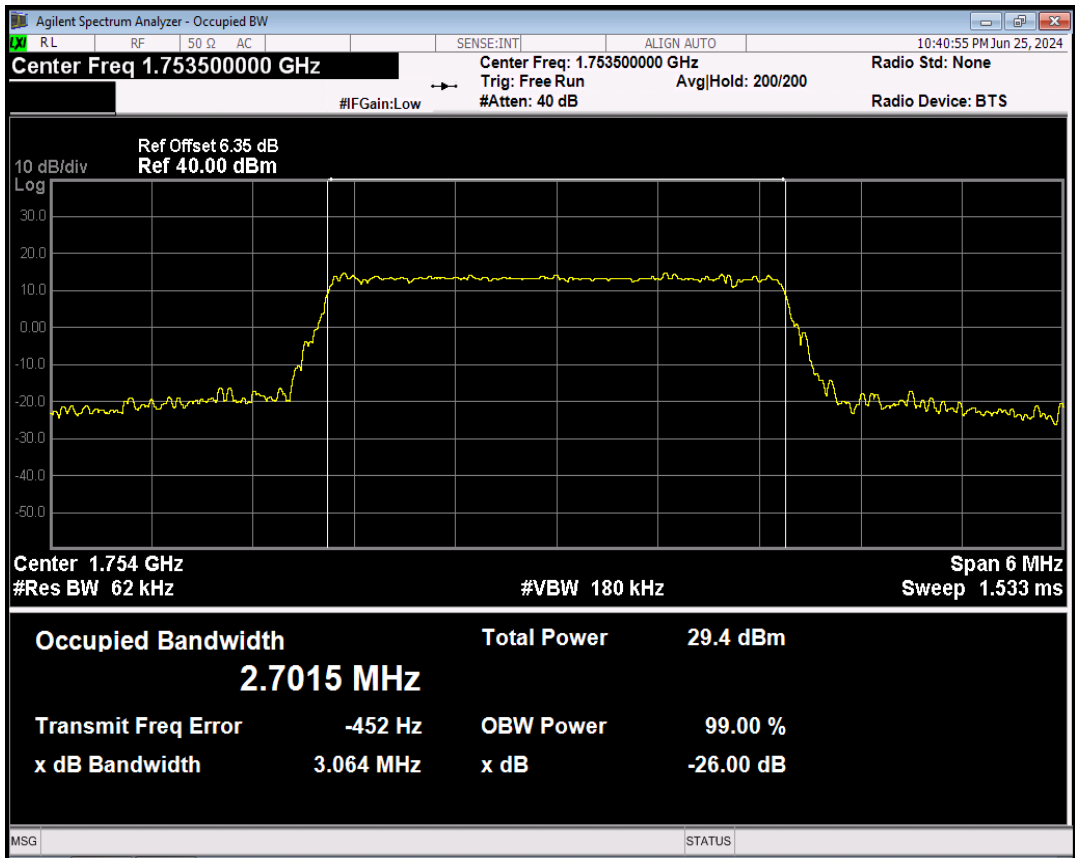




Band4 QPSK BW=3MHz Channel=20385 RB Size=15 Position=#0

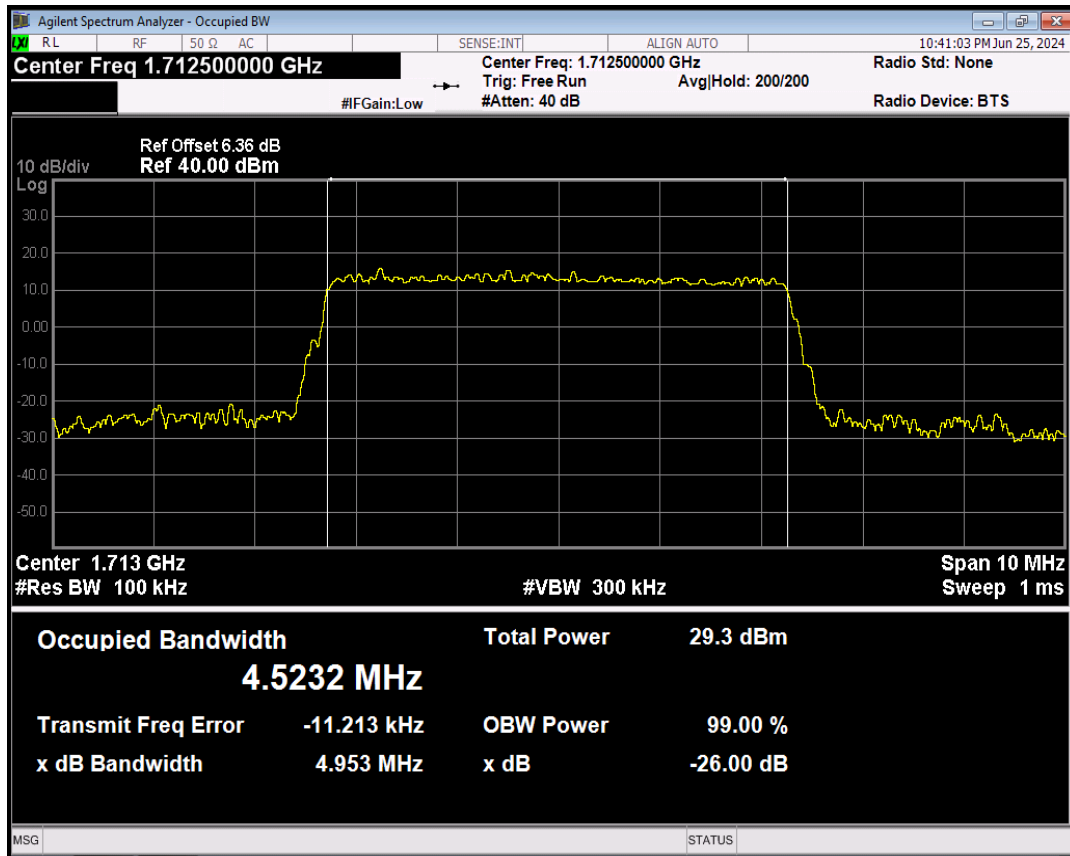


Band4 16QAM BW=3MHz Channel=20385 RB Size=15 Position=#0

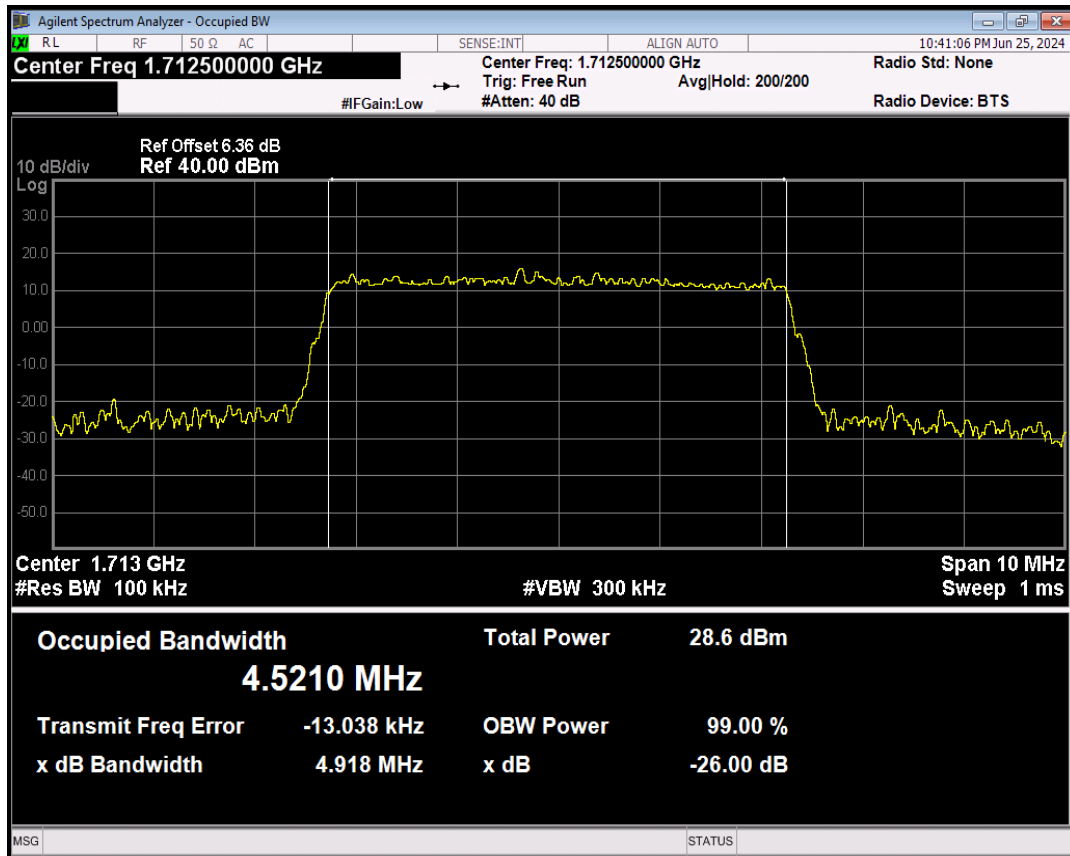




Band4 QPSK BW=5MHz Channel=19975 RB Size=25 Position=#0

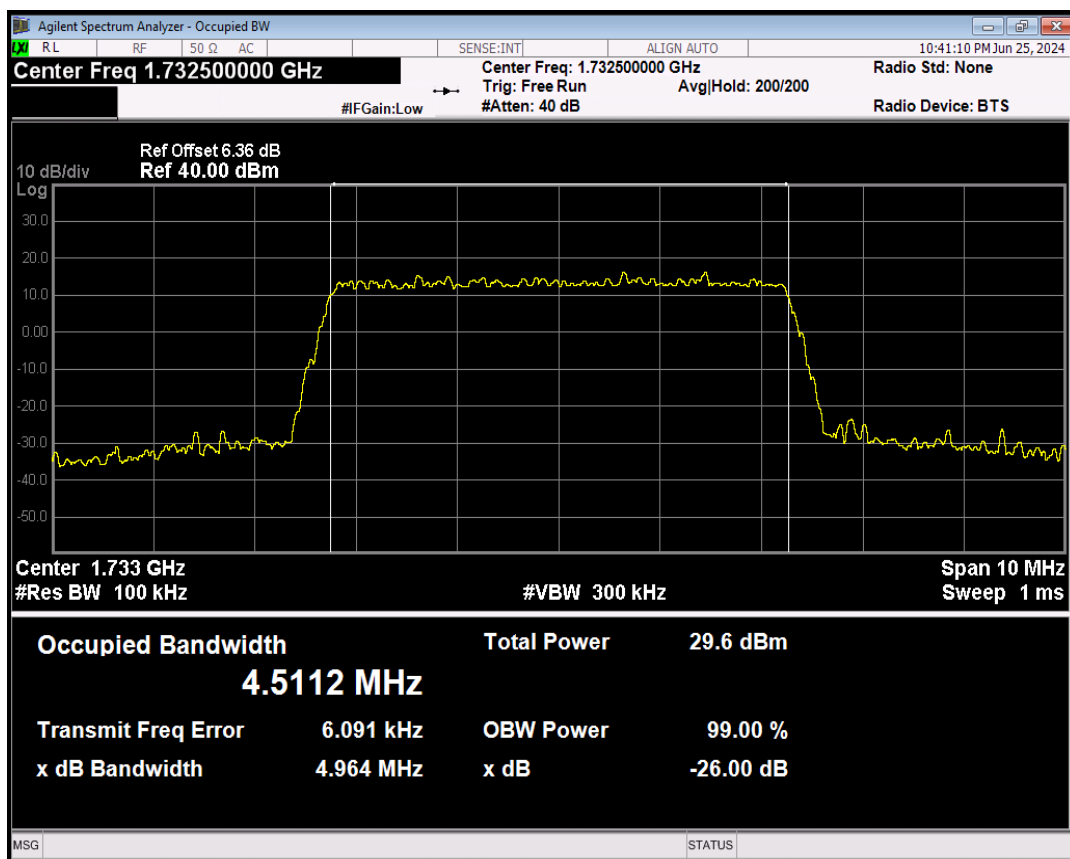


Band4 16QAM BW=5MHz Channel=19975 RB Size=25 Position=#0

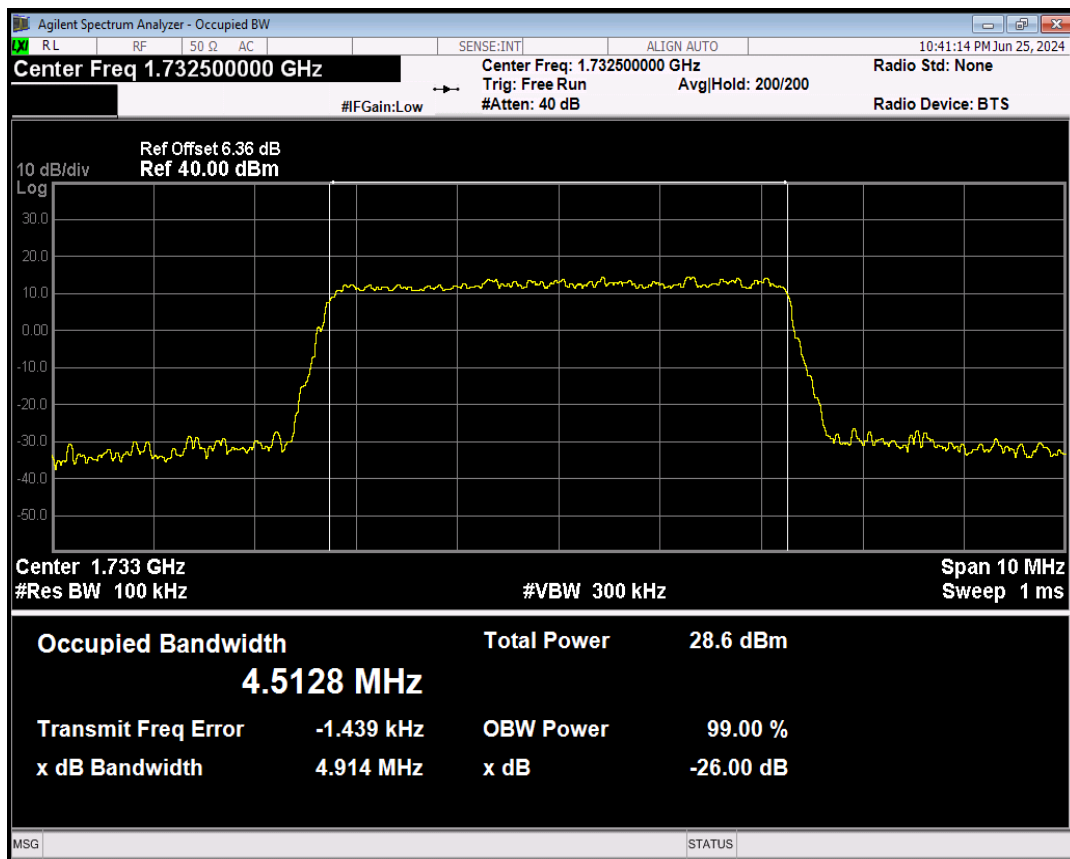




Band4 QPSK BW=5MHz Channel=20175 RB Size=25 Position=#0

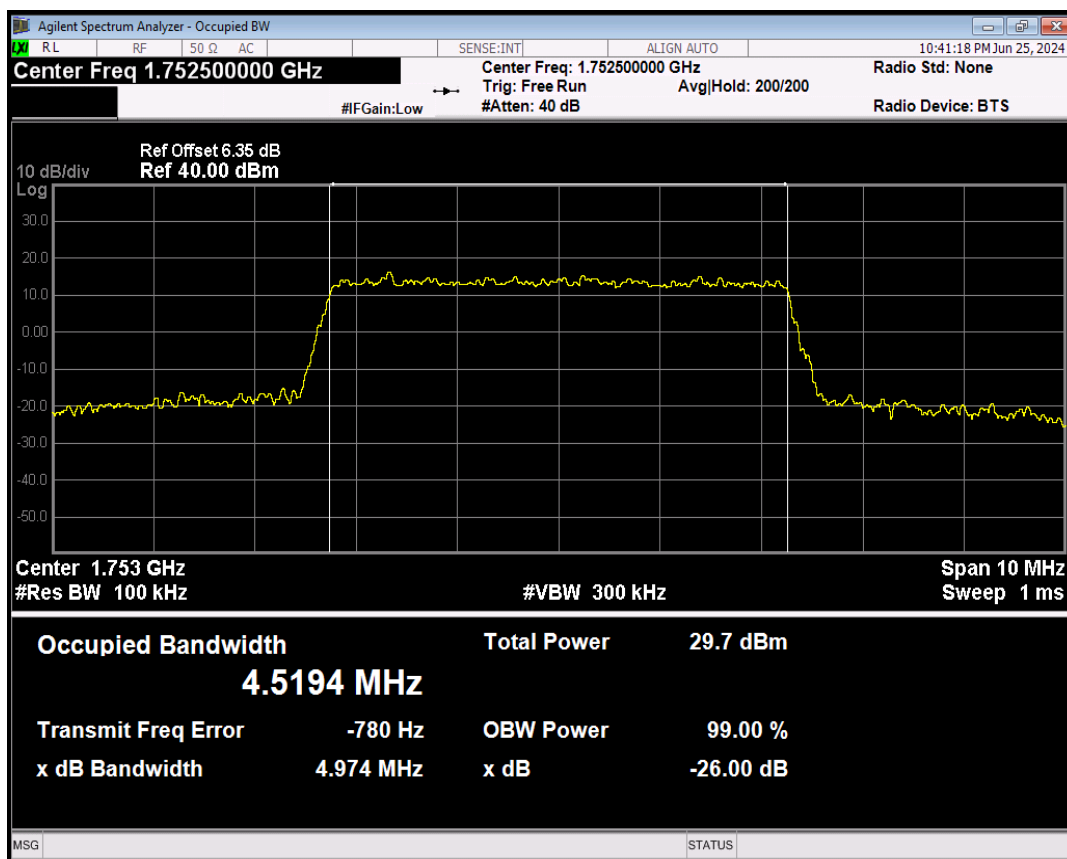


Band4 16QAM BW=5MHz Channel=20175 RB Size=25 Position=#0

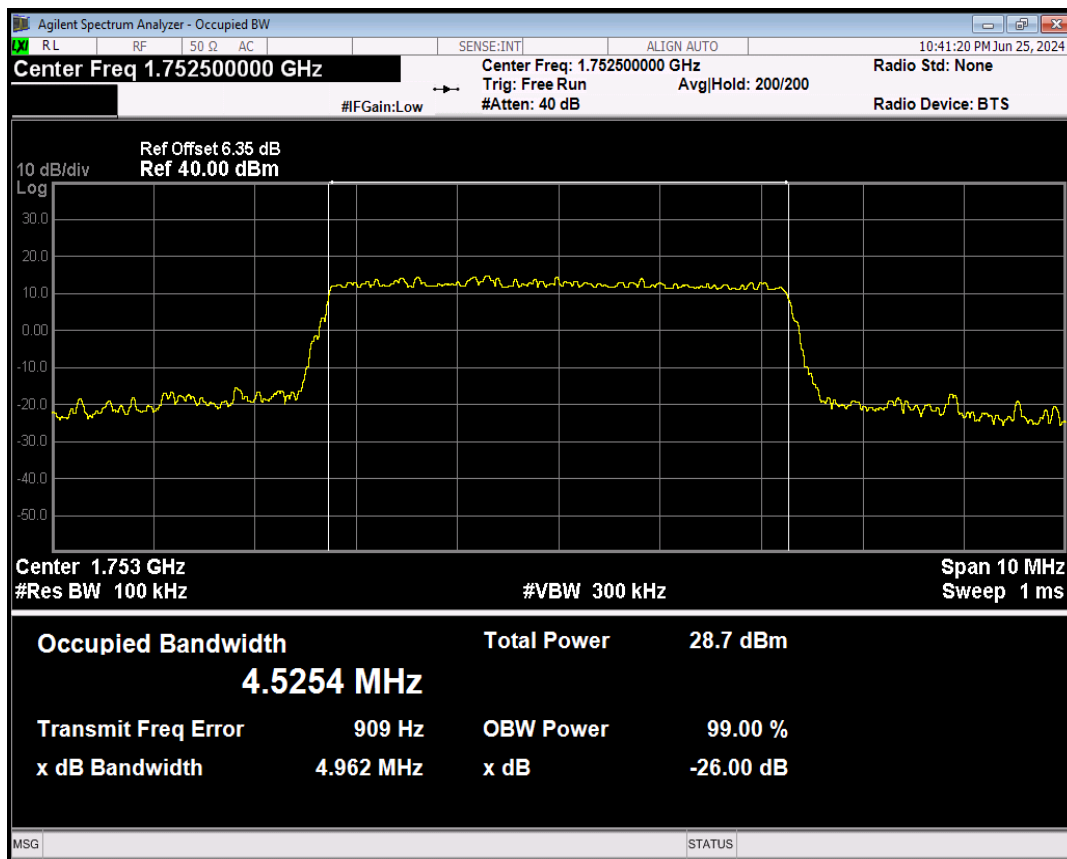




Band4 QPSK BW=5MHz Channel=20375 RB Size=25 Position=#0

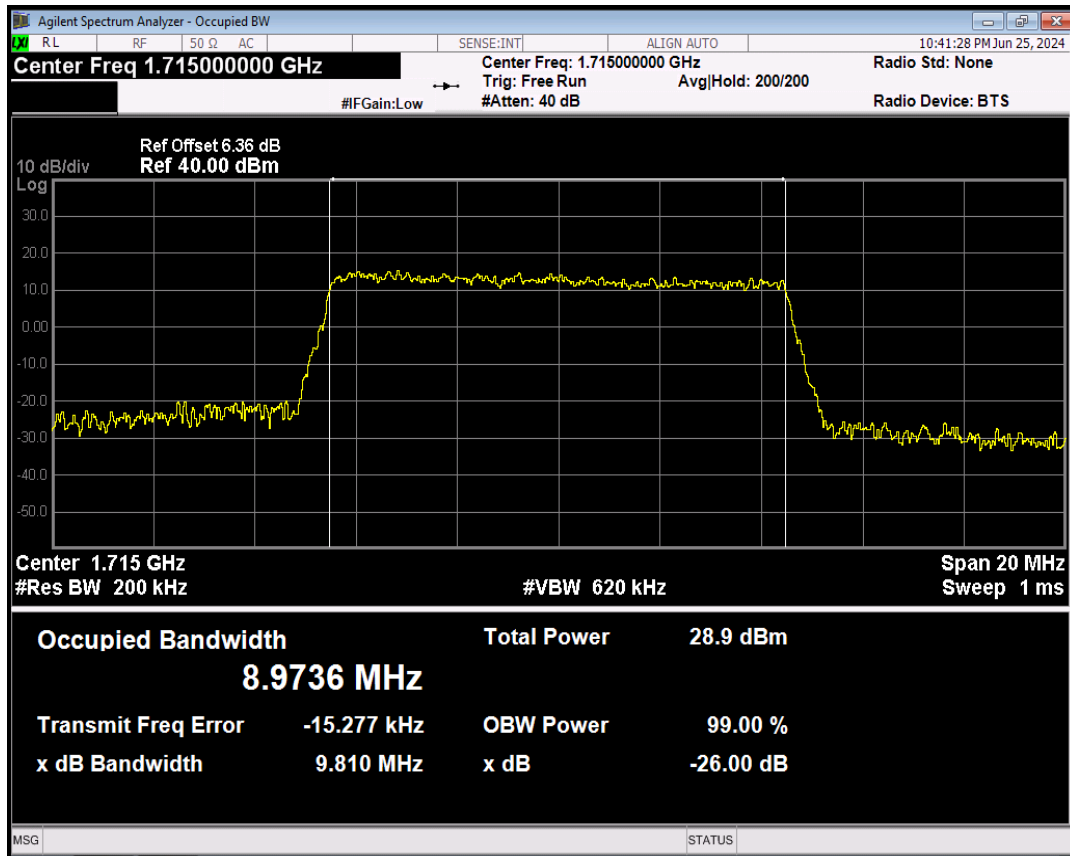


Band4 16QAM BW=5MHz Channel=20375 RB Size=25 Position=#0

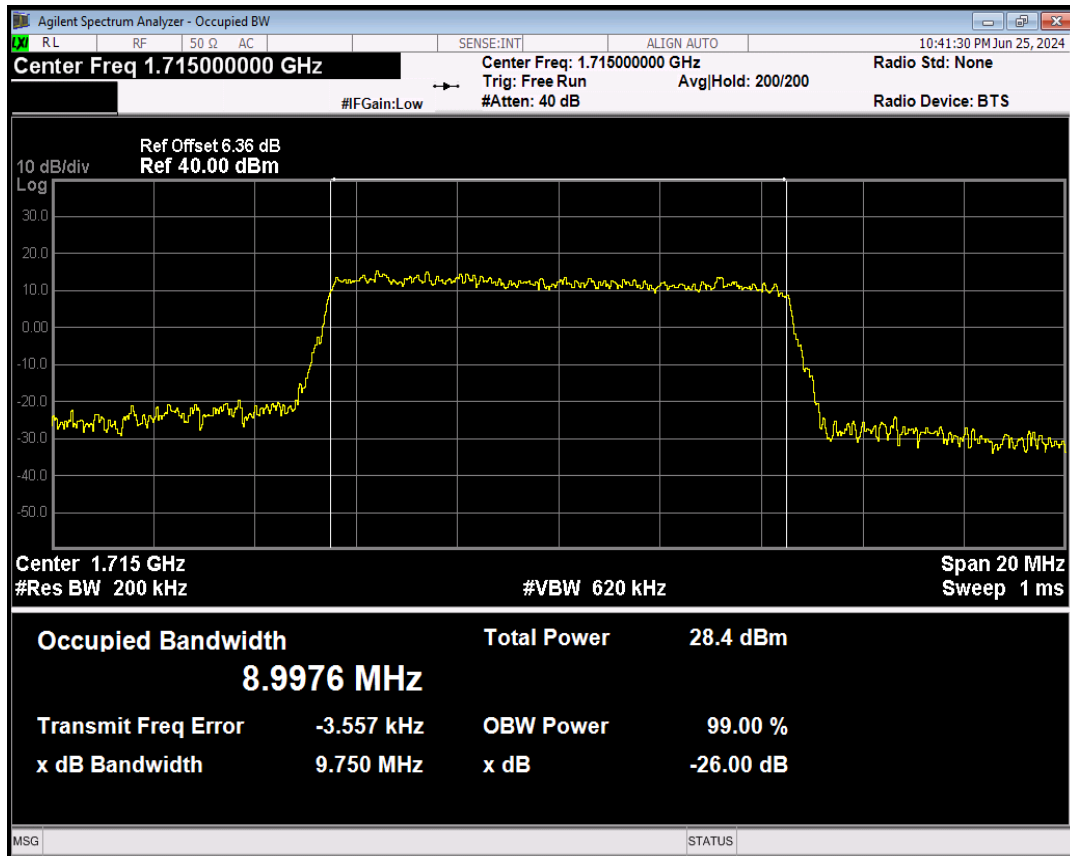




Band4 QPSK BW=10MHz Channel=20000 RB Size=50 Position=#0

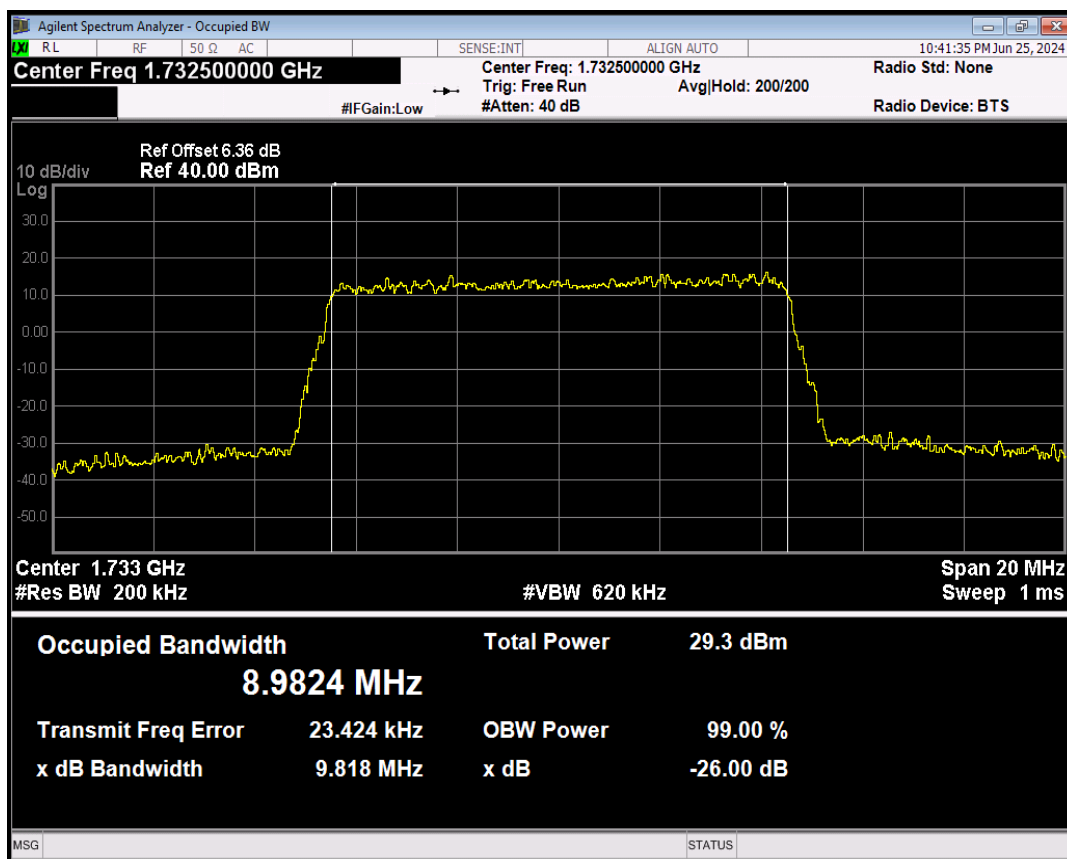


Band4 16QAM BW=10MHz Channel=20000 RB Size=50 Position=#0

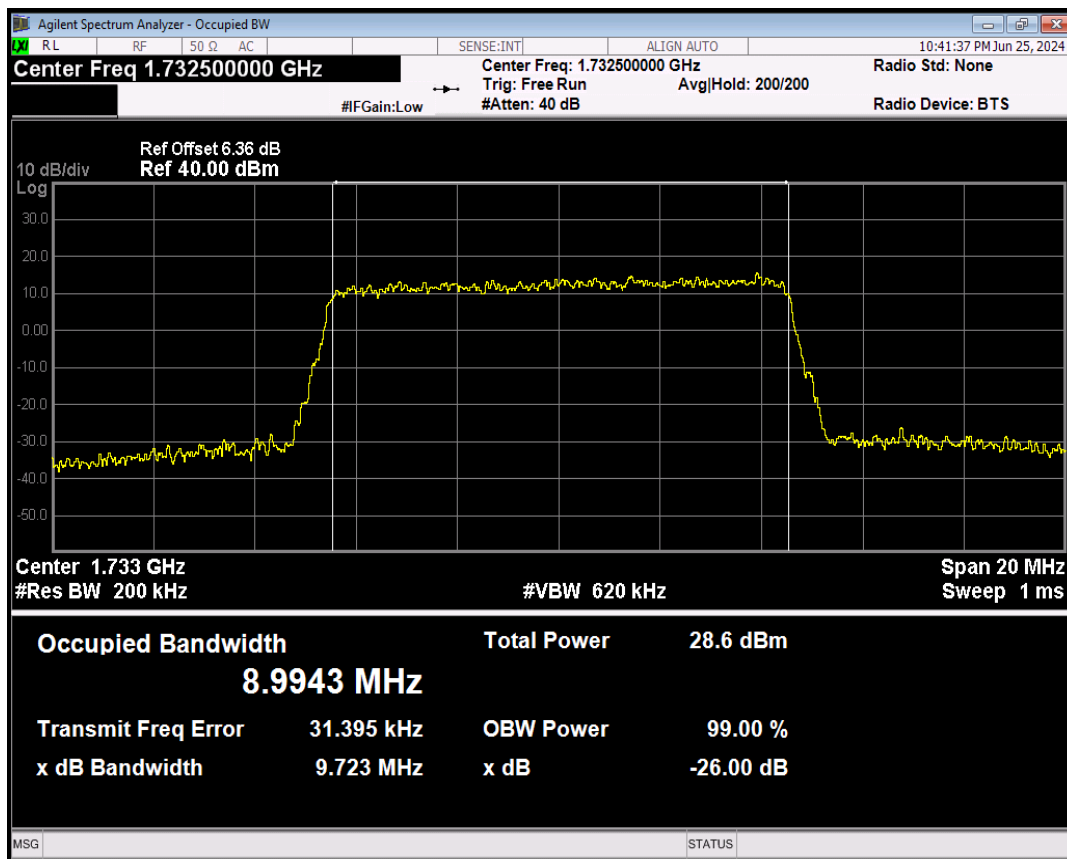




Band4 QPSK BW=10MHz Channel=20175 RB Size=50 Position=#0

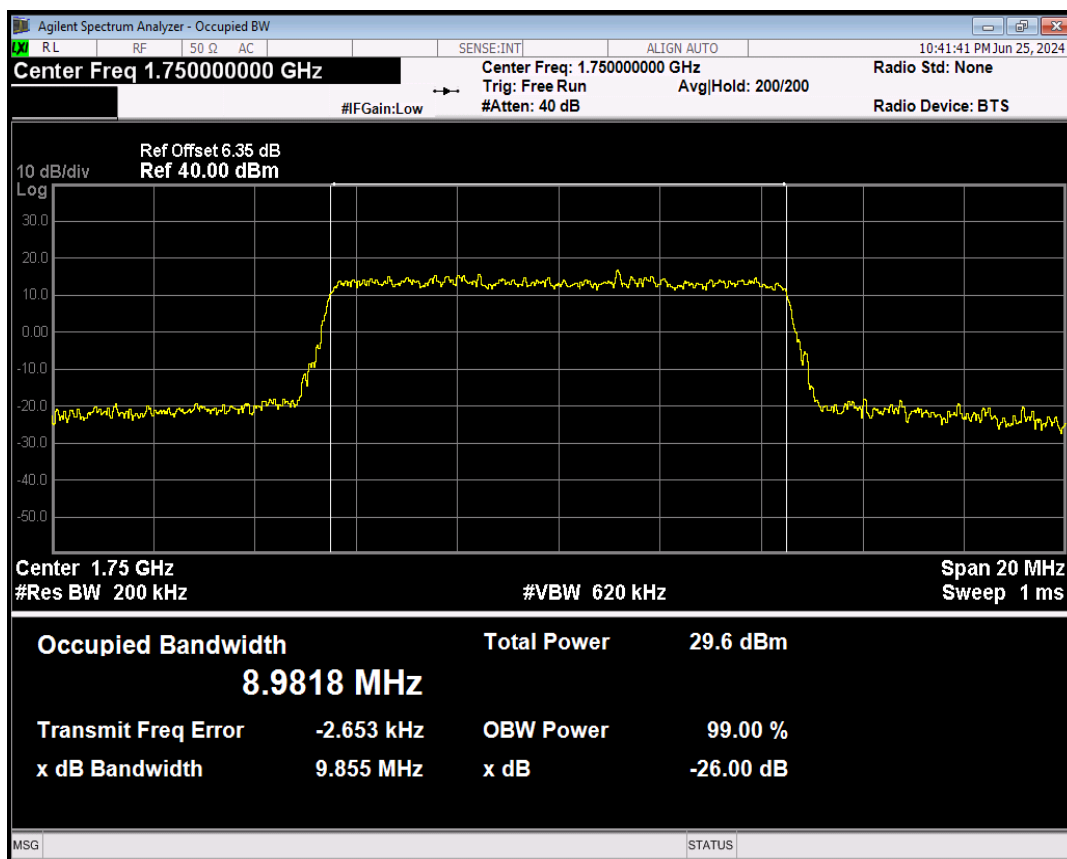


Band4 16QAM BW=10MHz Channel=20175 RB Size=50 Position=#0

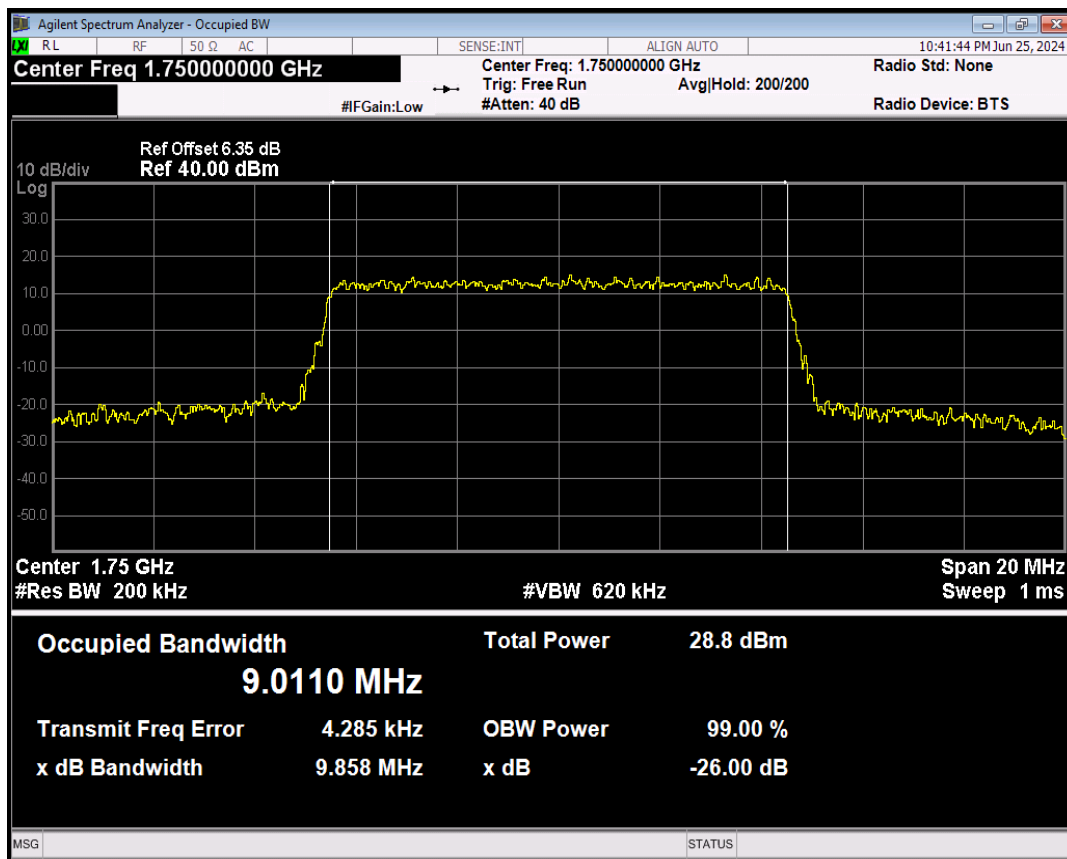




Band4 QPSK BW=10MHz Channel=20350 RB Size=50 Position=#0

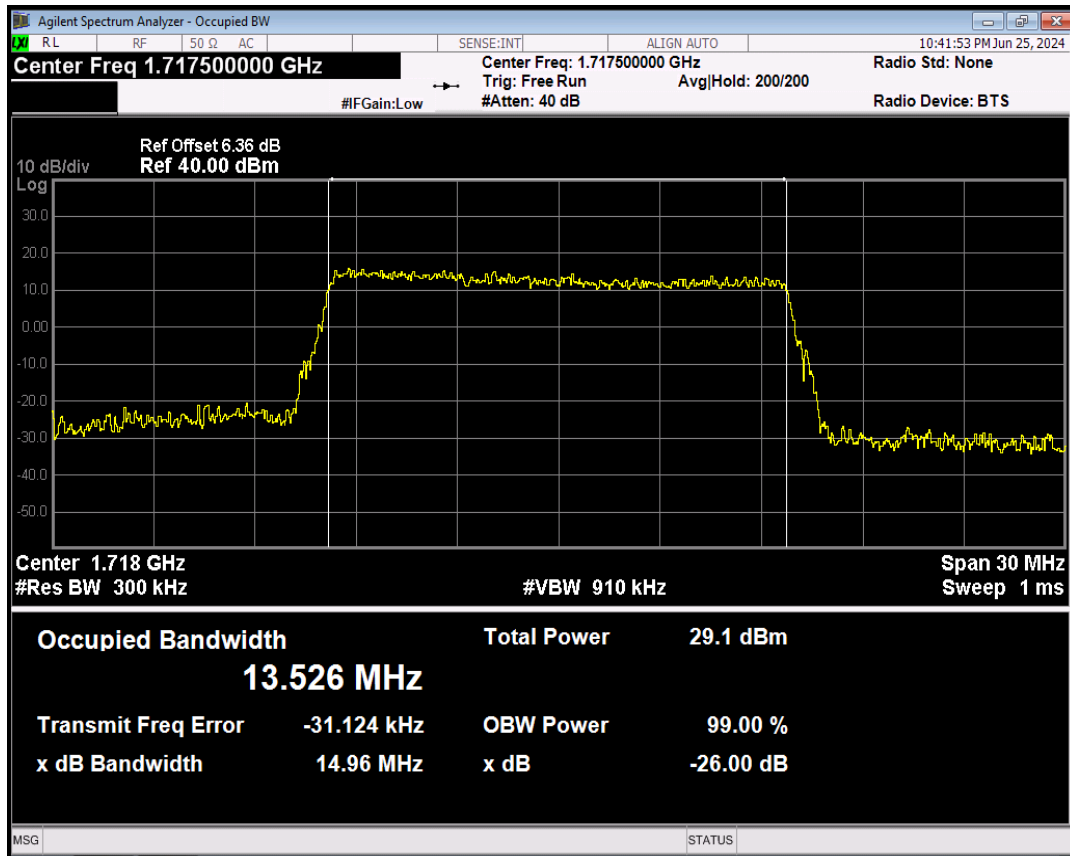


Band4 16QAM BW=10MHz Channel=20350 RB Size=50 Position=#0

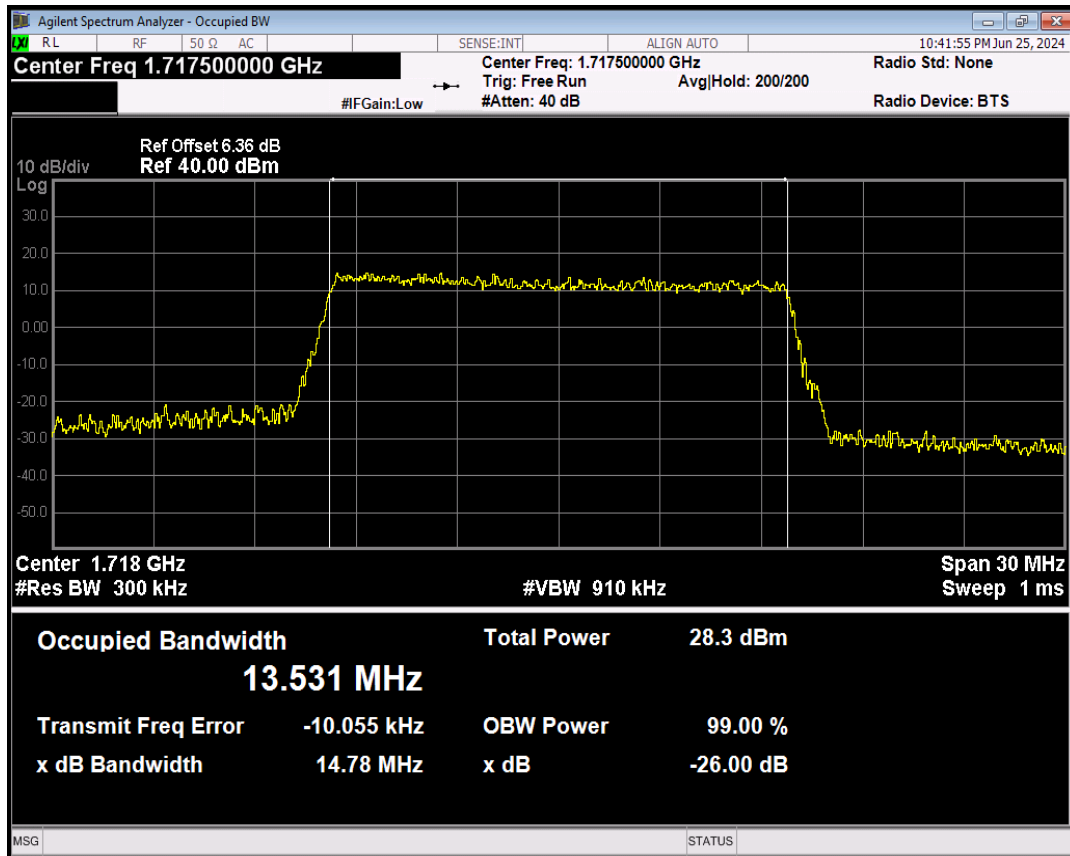




Band4 QPSK BW=15MHz Channel=20025 RB Size=75 Position=#0

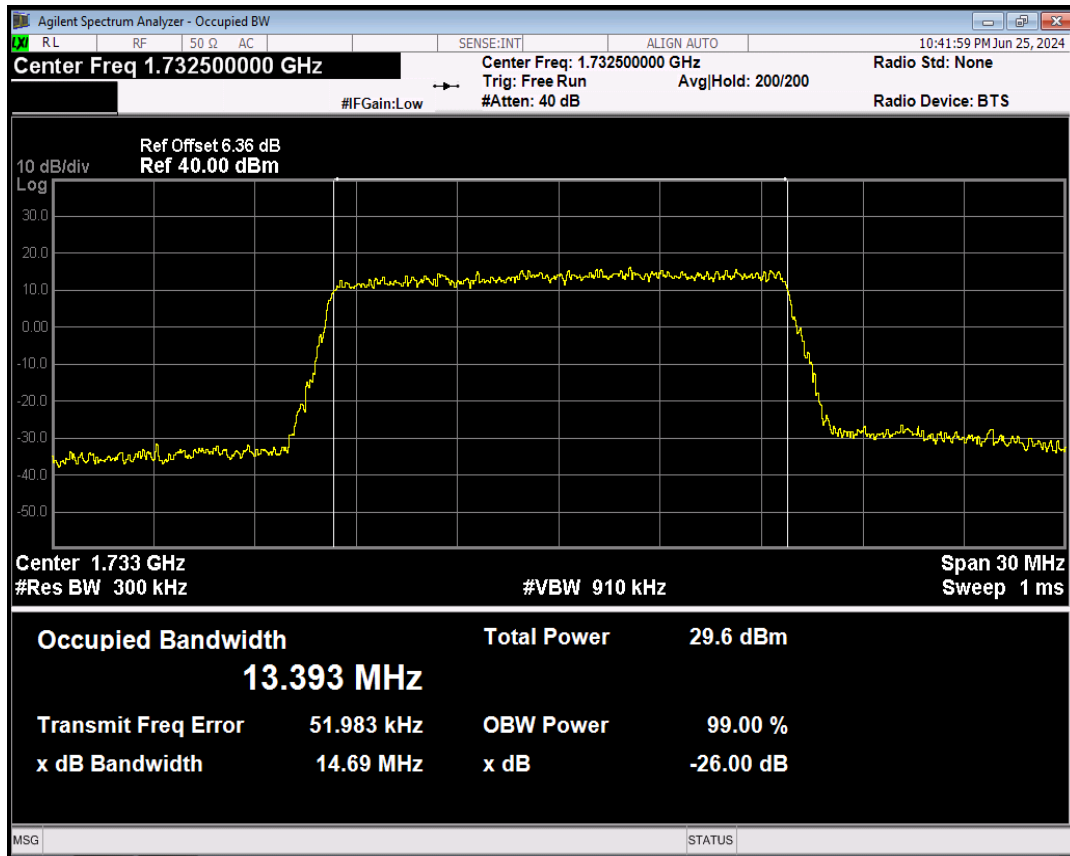


Band4 16QAM BW=15MHz Channel=20025 RB Size=75 Position=#0

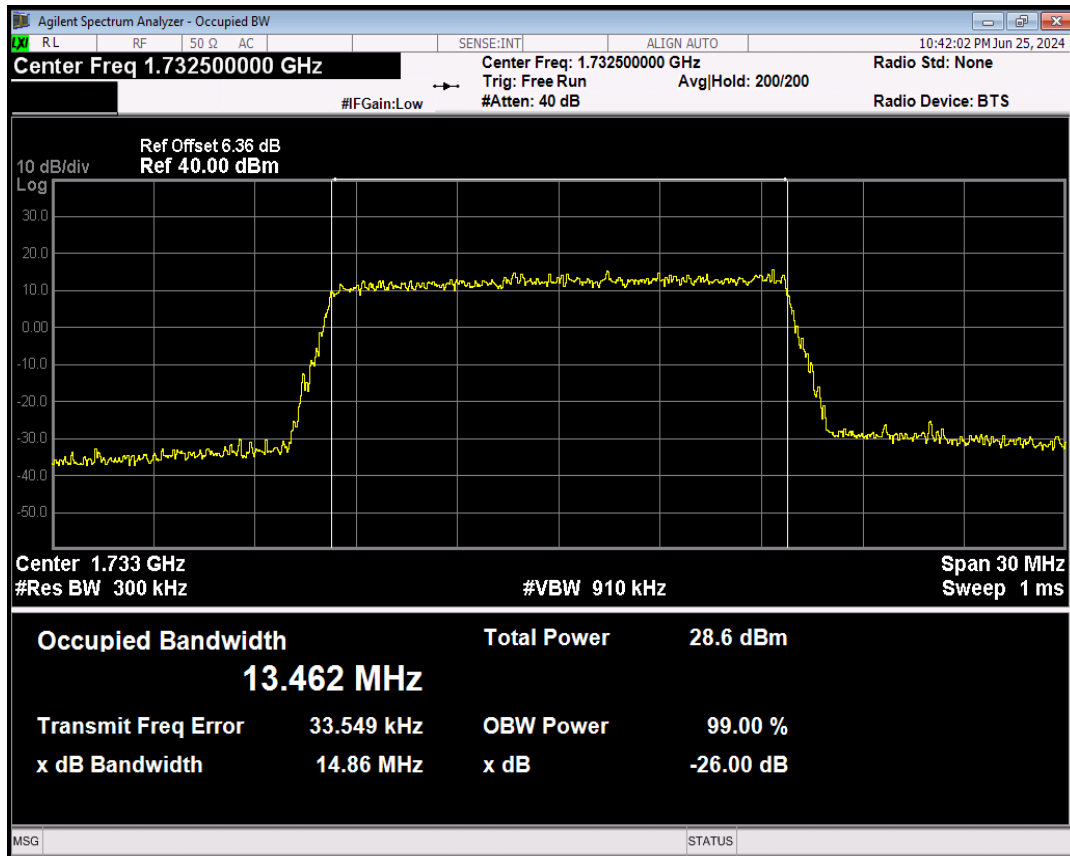




Band4 QPSK BW=15MHz Channel=20175 RB Size=75 Position=#0

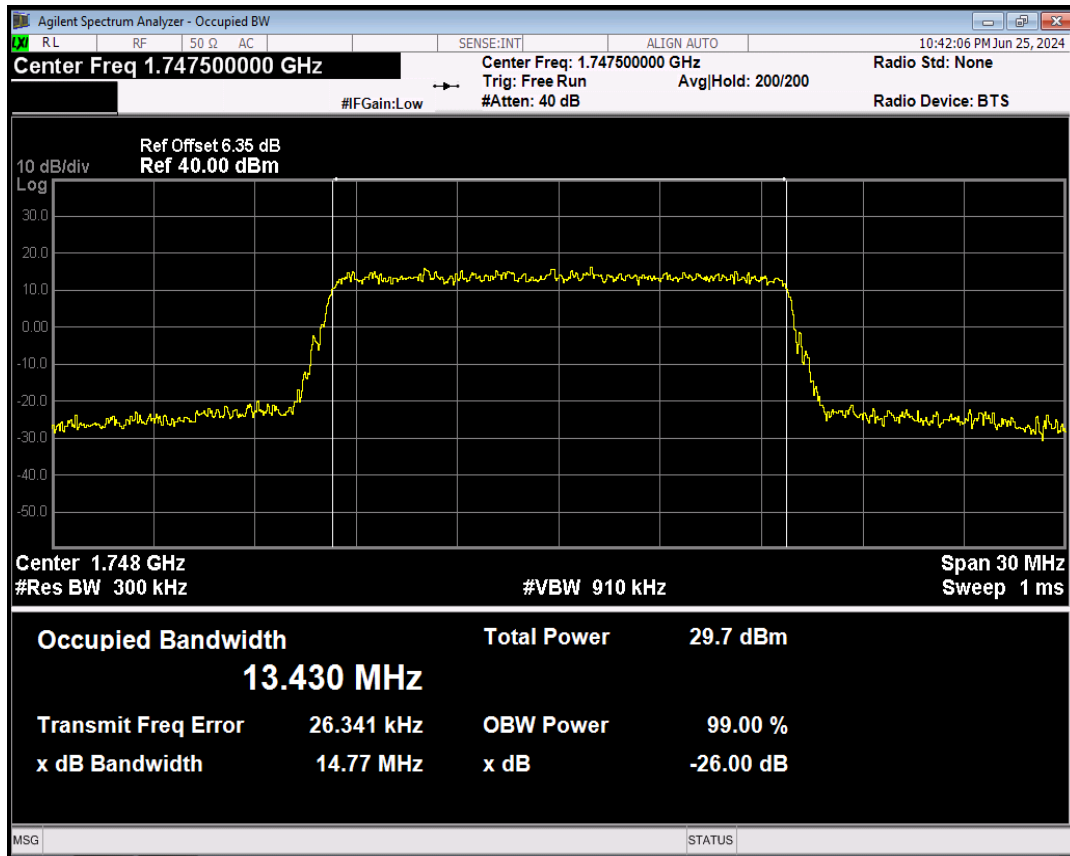


Band4 16QAM BW=15MHz Channel=20175 RB Size=75 Position=#0

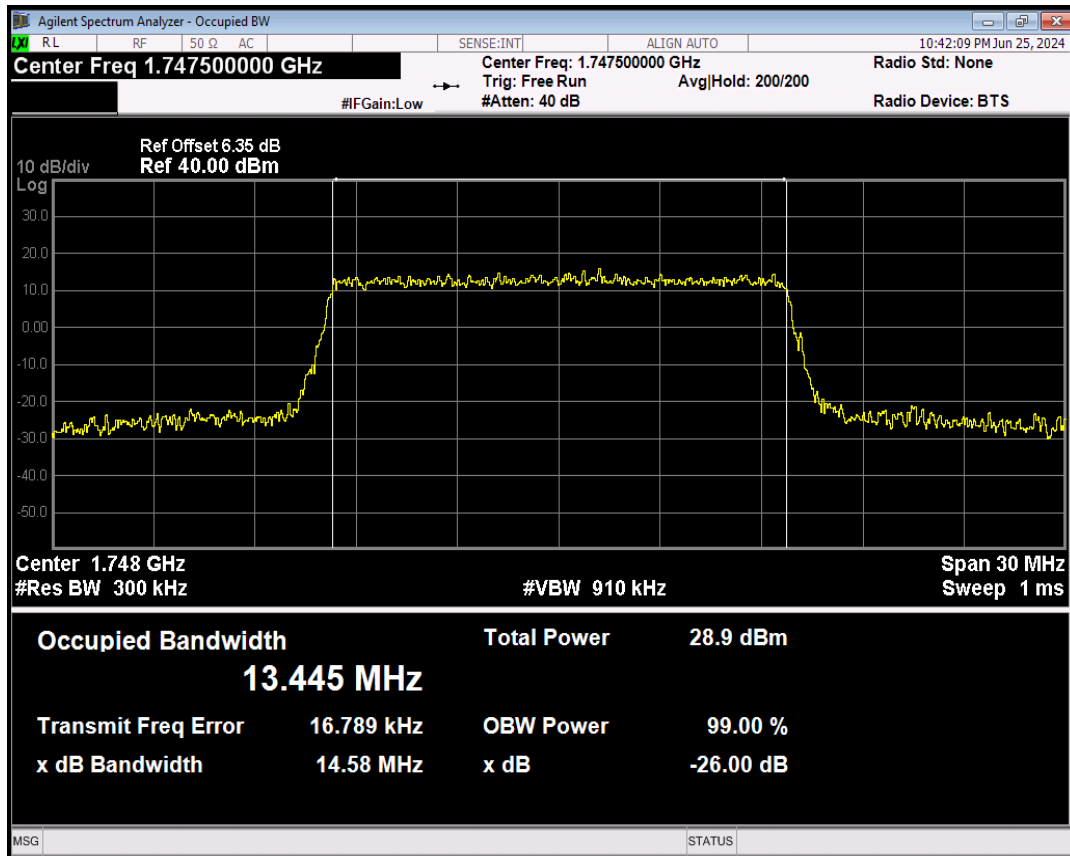




Band4 QPSK BW=15MHz Channel=20325 RB Size=75 Position=#0

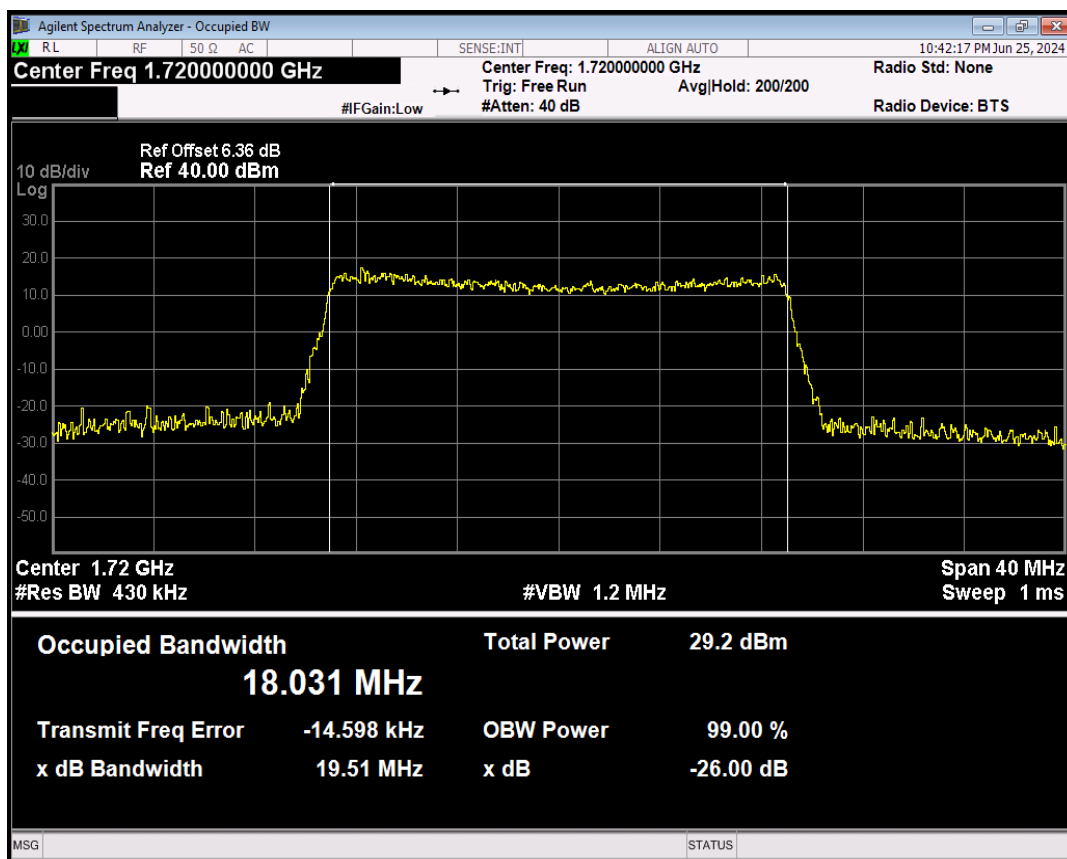


Band4 16QAM BW=15MHz Channel=20325 RB Size=75 Position=#0

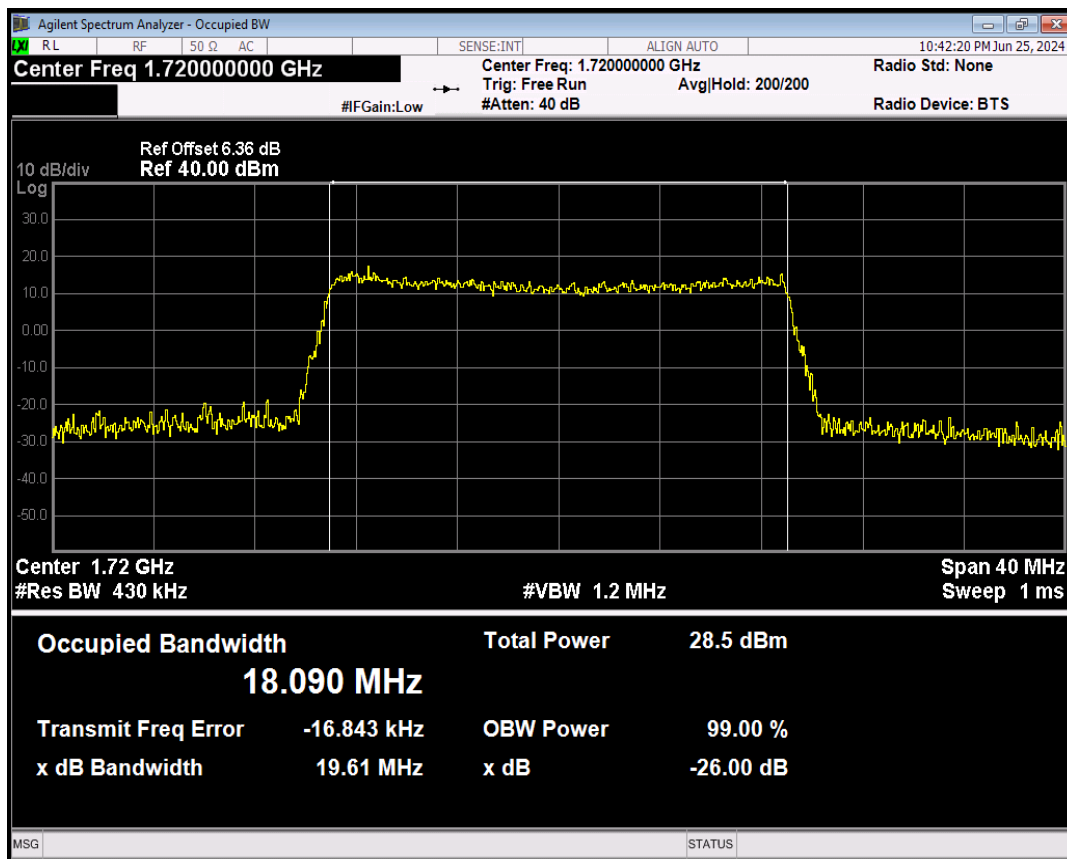




Band4 QPSK BW=20MHz Channel=20050 RB Size=100 Position=#0

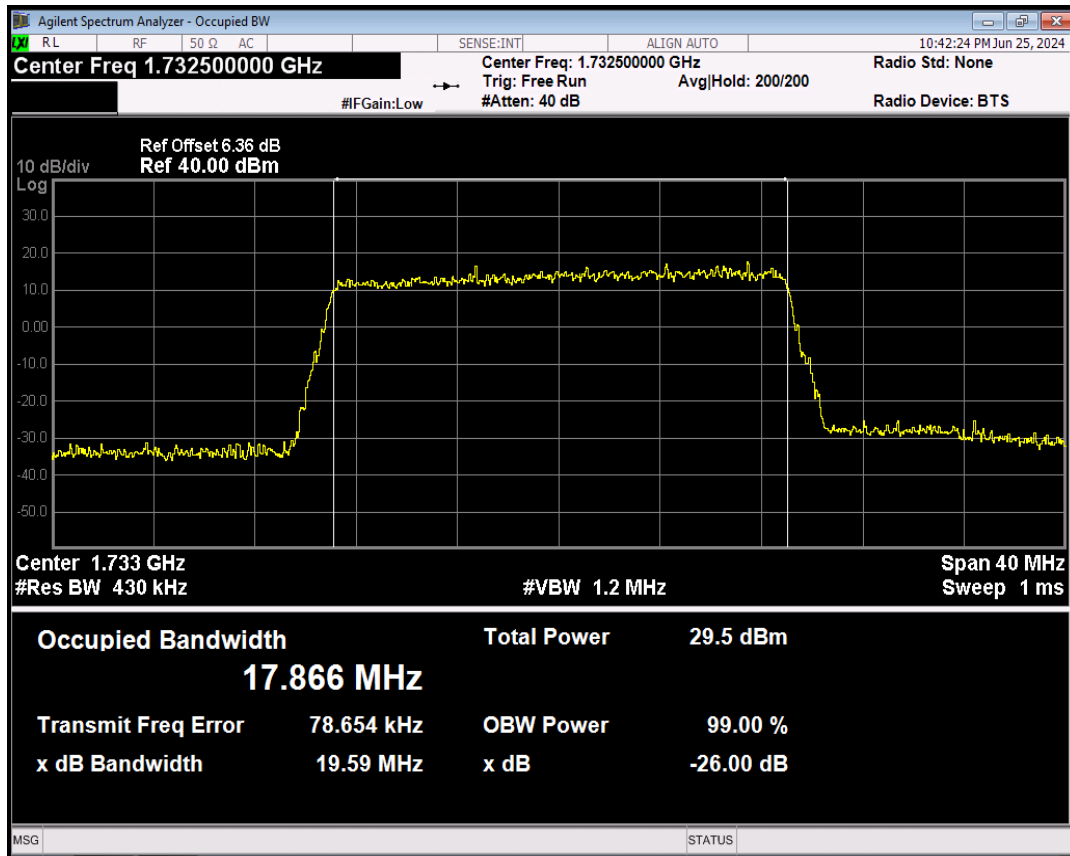


Band4 16QAM BW=20MHz Channel=20050 RB Size=100 Position=#0

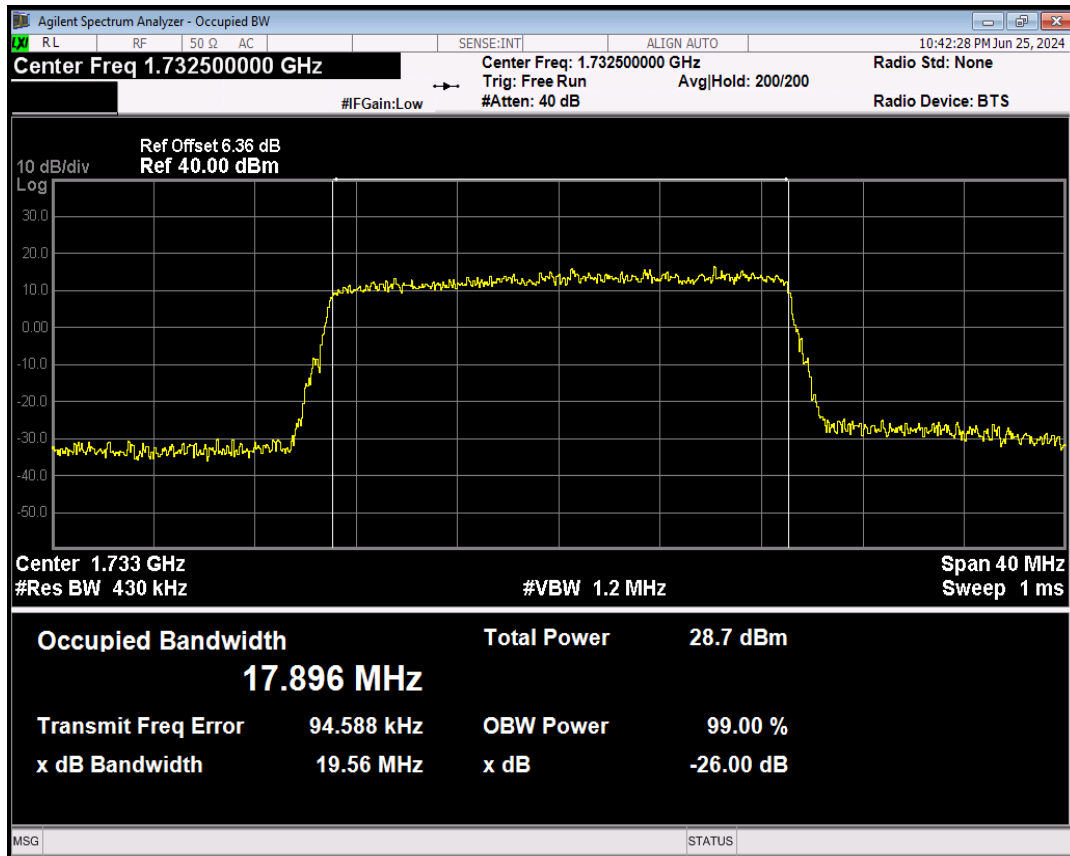




Band4 QPSK BW=20MHz Channel=20175 RB Size=100 Position=#0

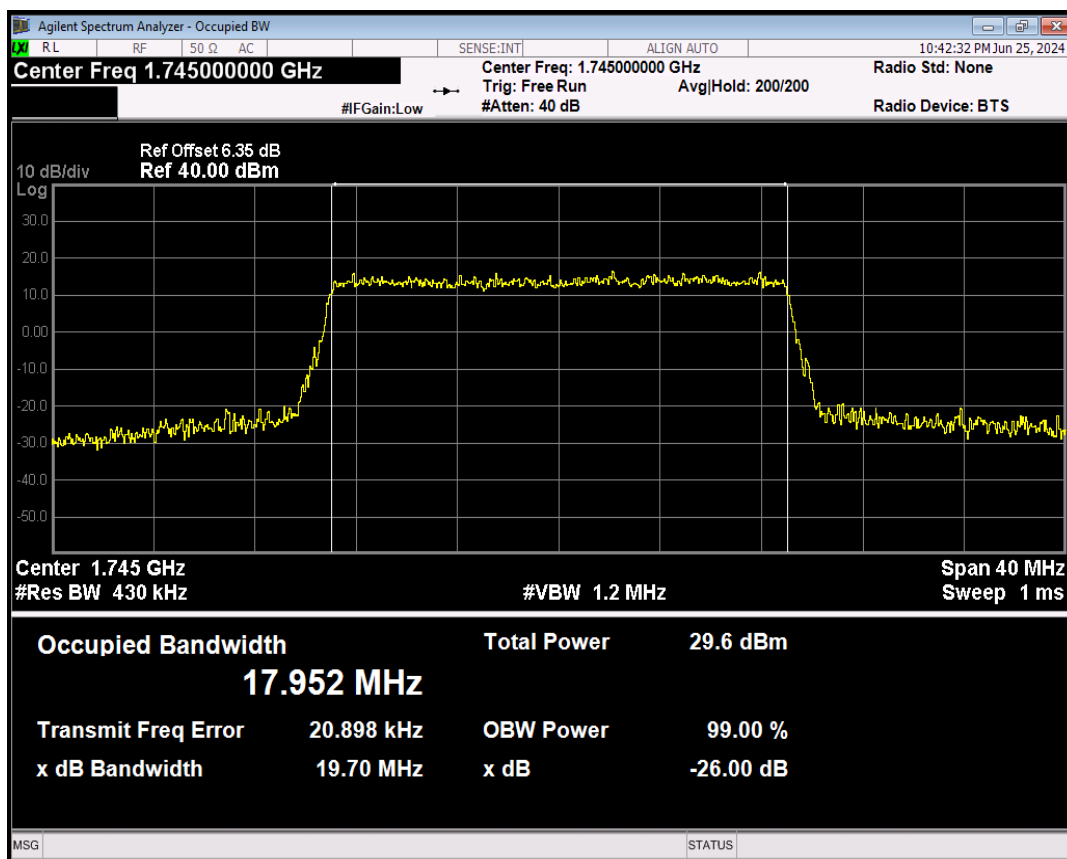


Band4 16QAM BW=20MHz Channel=20175 RB Size=100 Position=#0

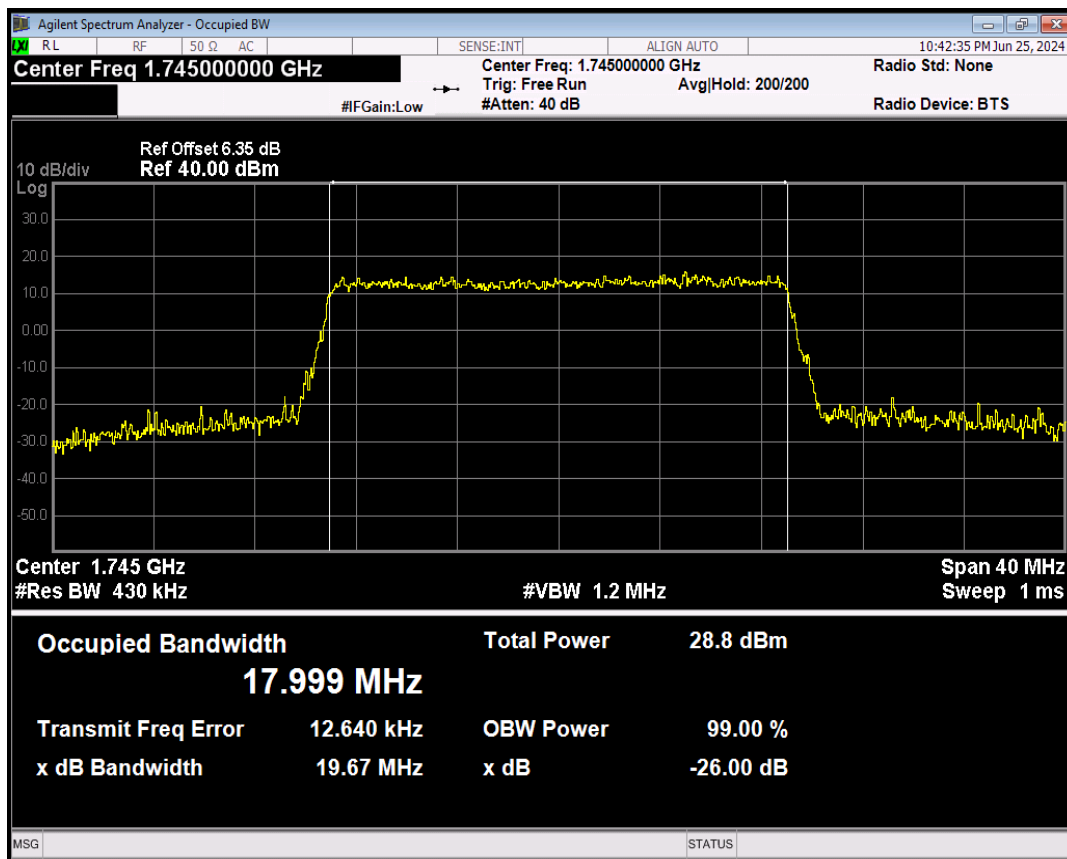




Band4 QPSK BW=20MHz Channel=20300 RB Size=100 Position=#0



Band4 16QAM BW=20MHz Channel=20300 RB Size=100 Position=#0



Appendix 5. Band edge

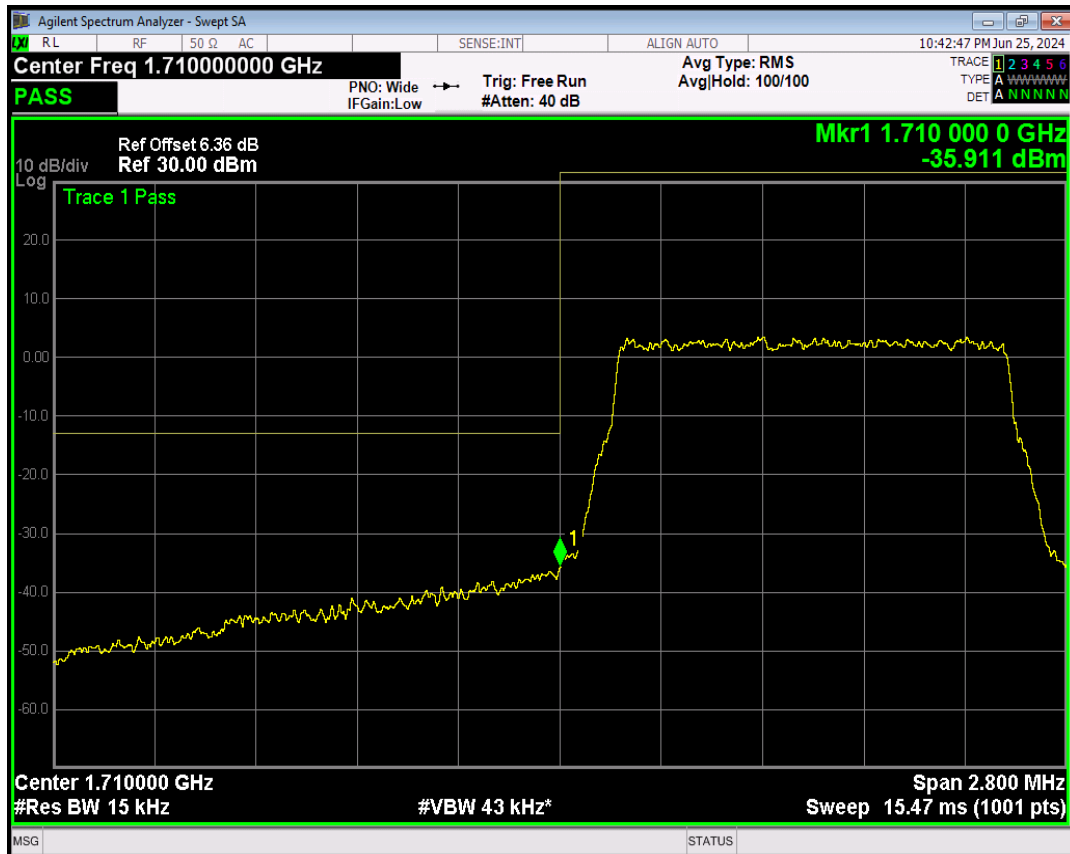
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band4	1.4	19957	6	#0	QPSK	1709.99	-33.97	-13	PASS
Band4	1.4	19957	6	#0	16QAM	1710.00	-35.91	-13	PASS
Band4	1.4	20393	6	#0	QPSK	1755.02	-28.39	-13	PASS
Band4	1.4	20393	6	#0	16QAM	1755.01	-30.73	-13	PASS
Band4	3	19965	15	#0	QPSK	1710.00	-26.69	-13	PASS
Band4	3	19965	15	#0	16QAM	1710.00	-24.87	-13	PASS
Band4	3	20385	15	#0	QPSK	1755.00	-24.94	-13	PASS
Band4	3	20385	15	#0	16QAM	1755.00	-25.51	-13	PASS
Band4	5	19975	25	#0	QPSK	1710.00	-31.59	-13	PASS
Band4	5	19975	25	#0	16QAM	1709.99	-30.82	-13	PASS
Band4	5	20375	25	#0	QPSK	1755.00	-29.69	-13	PASS
Band4	5	20375	25	#0	16QAM	1755.02	-31.52	-13	PASS
Band4	10	20000	50	#0	QPSK	1710.00	-33.39	-13	PASS
Band4	10	20000	50	#0	16QAM	1709.96	-34.89	-13	PASS
Band4	10	20350	50	#0	QPSK	1755.00	-33.10	-13	PASS
Band4	10	20350	50	#0	16QAM	1755.00	-33.62	-13	PASS
Band4	15	20025	75	#0	QPSK	1710.00	-33.60	-13	PASS
Band4	15	20025	75	#0	16QAM	1709.85	-34.25	-13	PASS
Band4	15	20325	75	#0	QPSK	1755.00	-32.36	-13	PASS
Band4	15	20325	75	#0	16QAM	1755.06	-35.11	-13	PASS
Band4	20	20050	100	#0	QPSK	1709.96	-33.90	-13	PASS
Band4	20	20050	100	#0	16QAM	1710.00	-34.50	-13	PASS
Band4	20	20300	100	#0	QPSK	1755.08	-34.96	-13	PASS
Band4	20	20300	100	#0	16QAM	1755.00	-35.15	-13	PASS



Band4 QPSK BW=1.4MHz Channel=19957 RB Size=6 Position=#0



Band4 16QAM BW=1.4MHz Channel=19957 RB Size=6 Position=#0

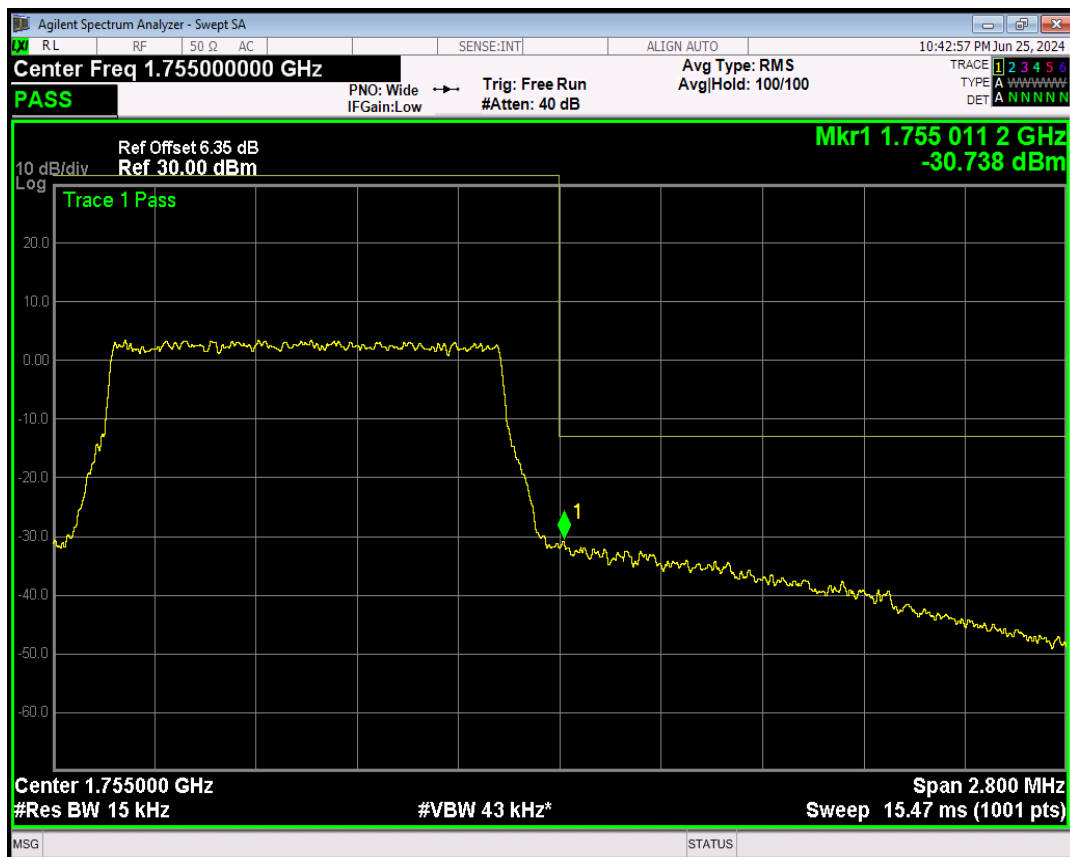




Band4 QPSK BW=1.4MHz Channel=20393 RB Size=6 Position=#0

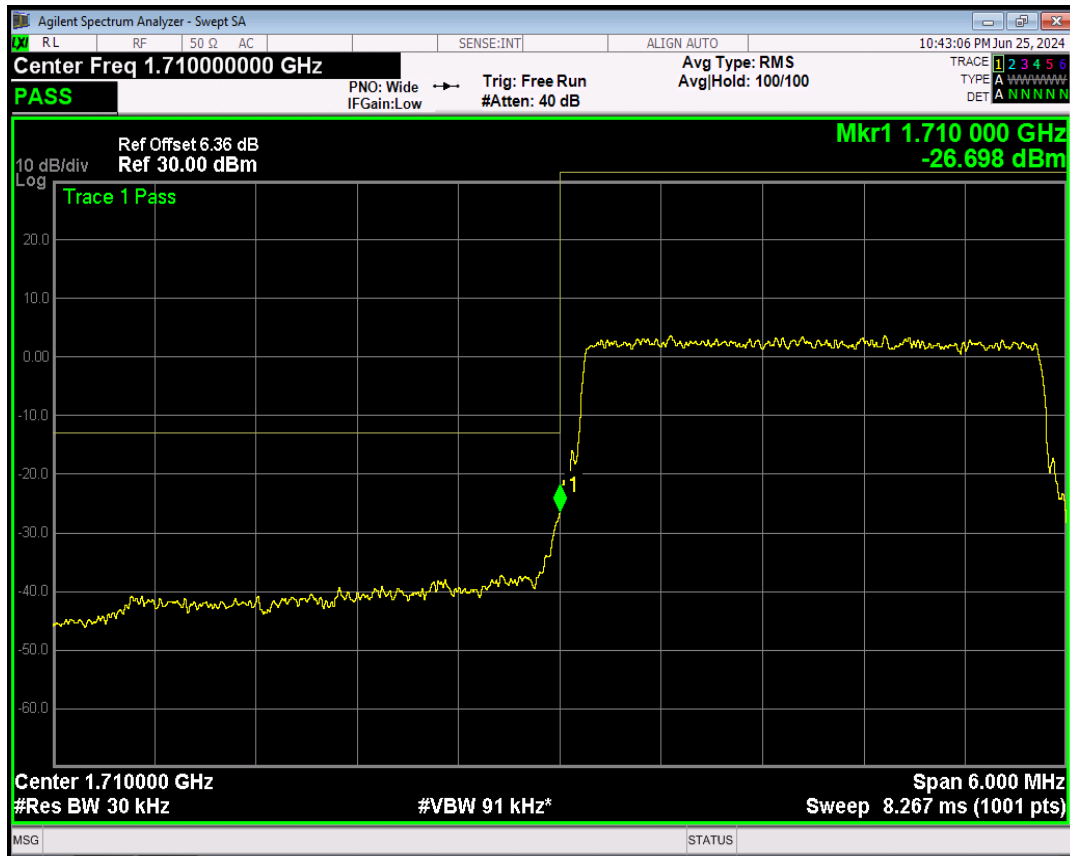


Band4 16QAM BW=1.4MHz Channel=20393 RB Size=6 Position=#0

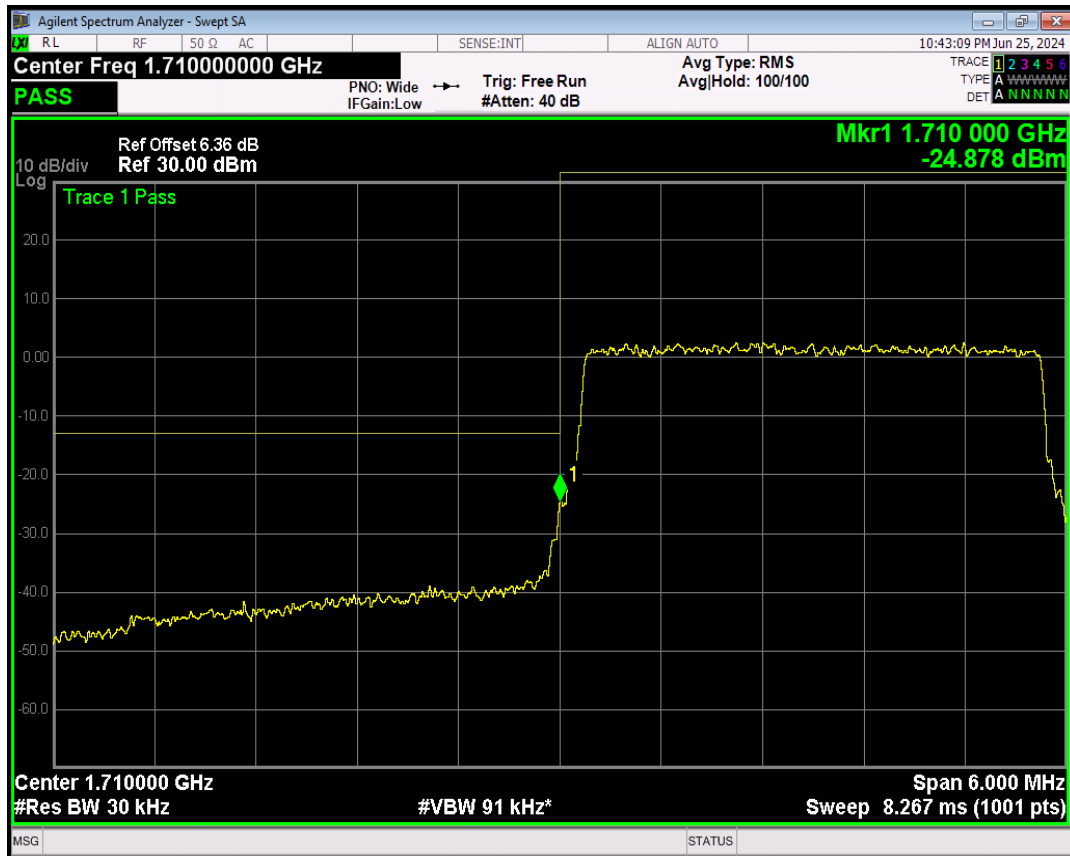




Band4 QPSK BW=3MHz Channel=19965 RB Size=15 Position=#0

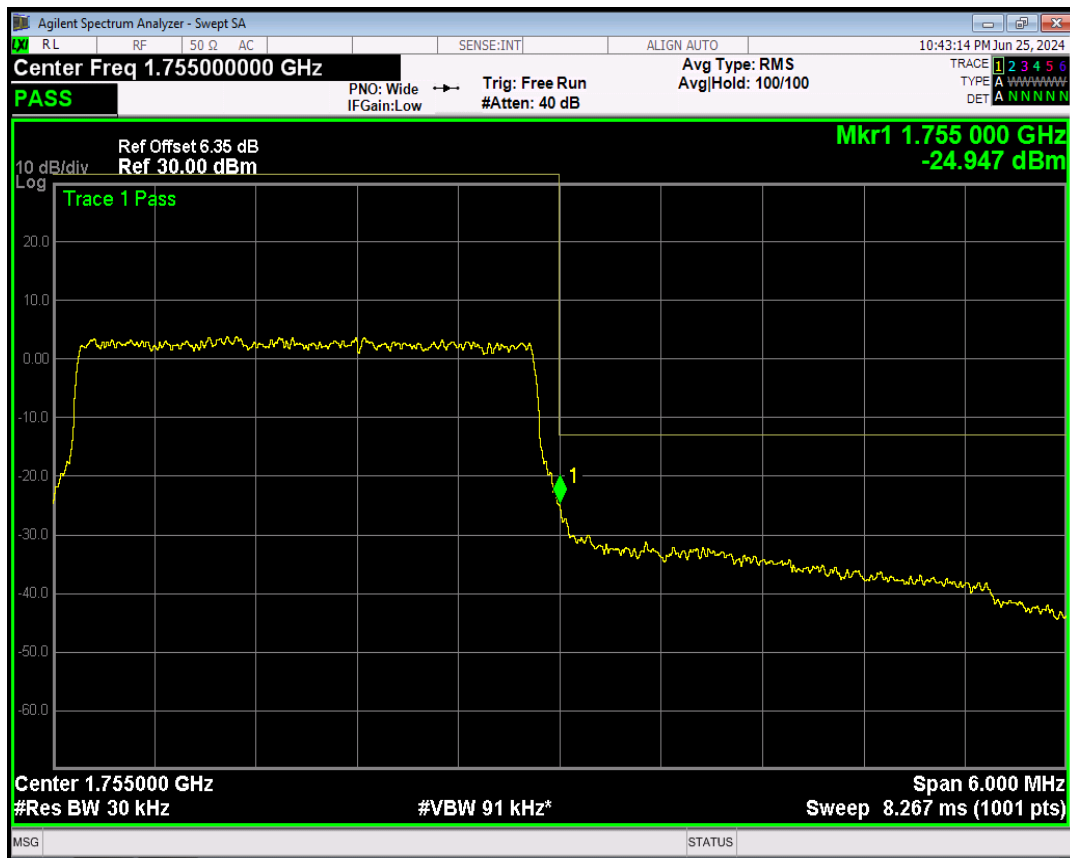


Band4 16QAM BW=3MHz Channel=19965 RB Size=15 Position=#0

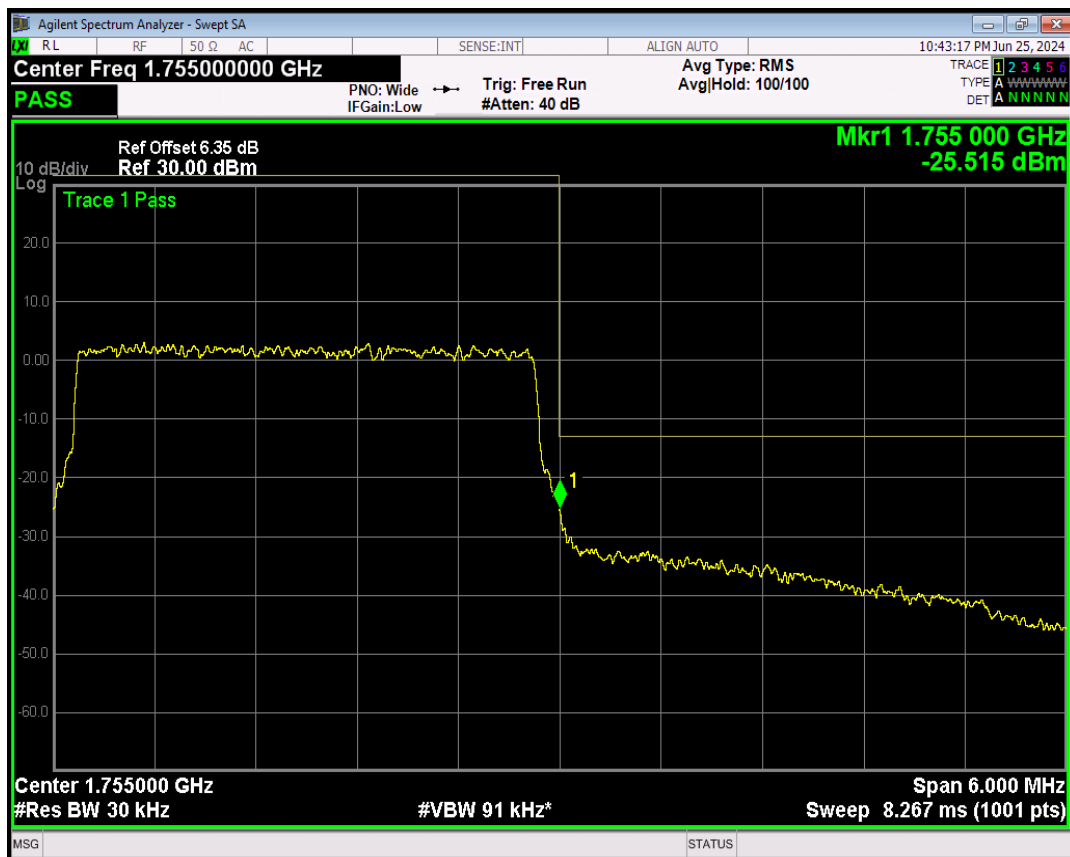




Band4 QPSK BW=3MHz Channel=20385 RB Size=15 Position=#0

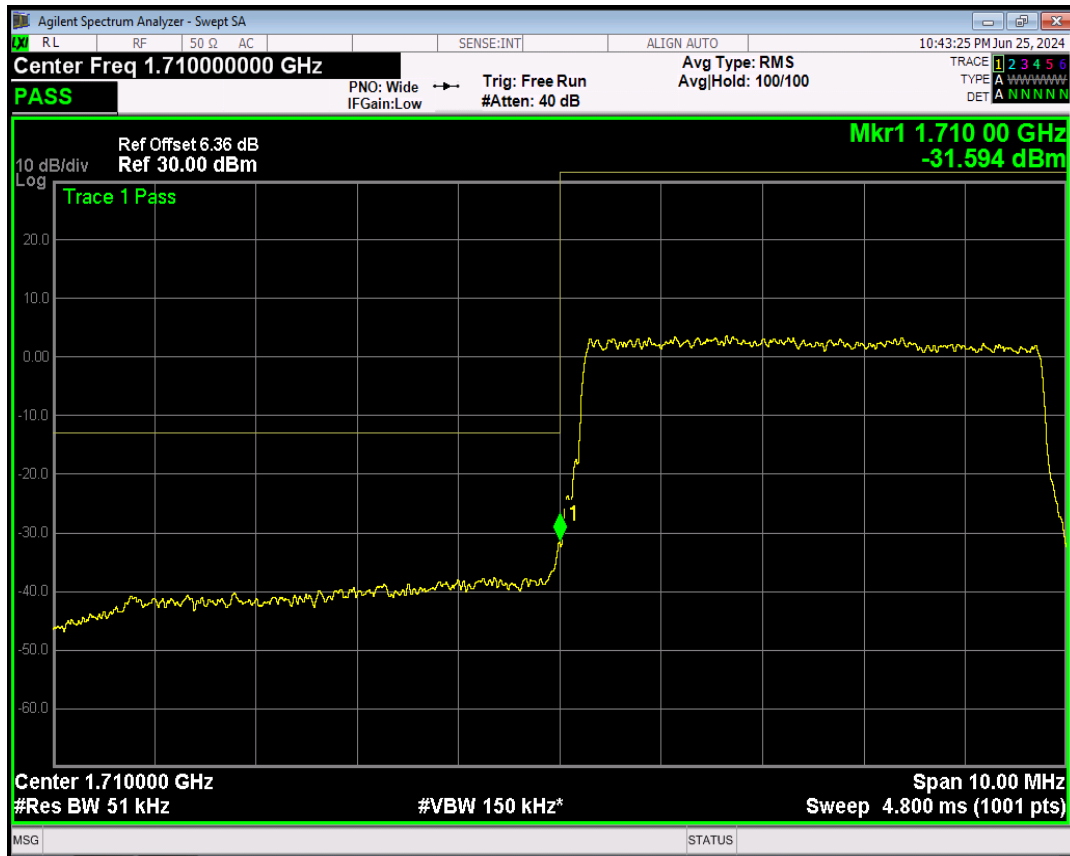


Band4 16QAM BW=3MHz Channel=20385 RB Size=15 Position=#0

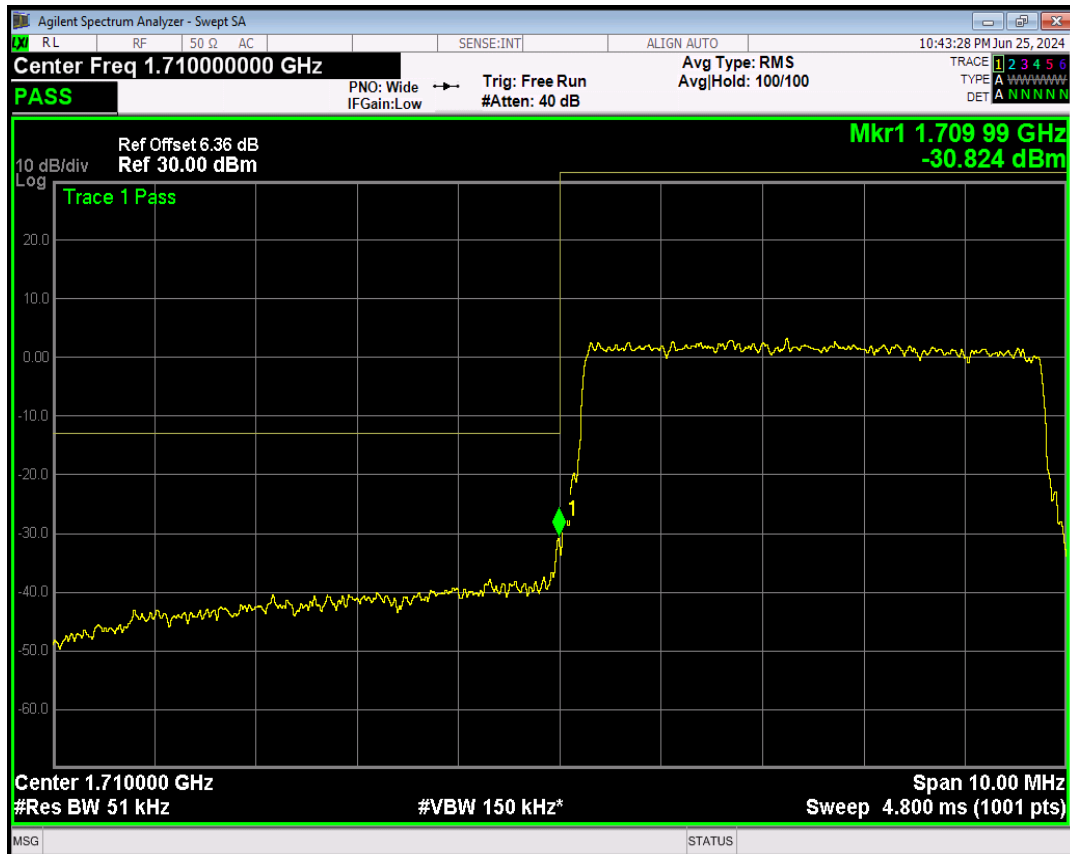




Band4 QPSK BW=5MHz Channel=19975 RB Size=25 Position=#0

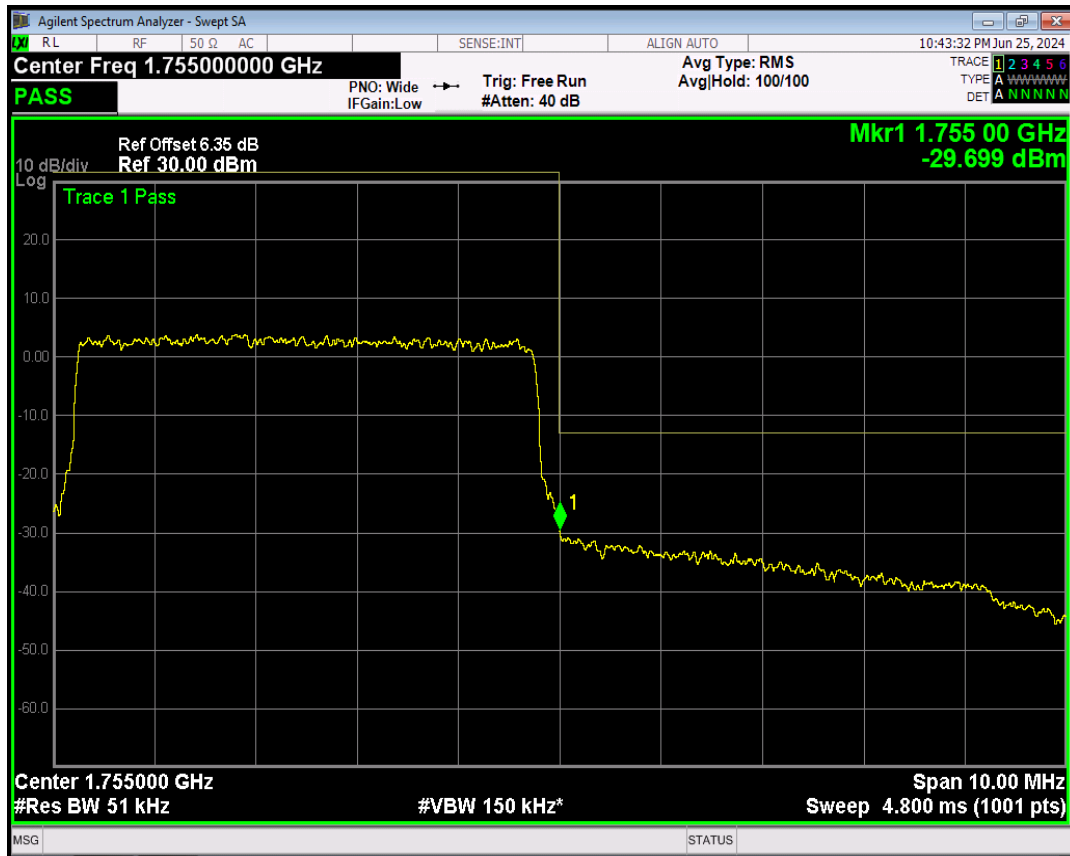


Band4 16QAM BW=5MHz Channel=19975 RB Size=25 Position=#0

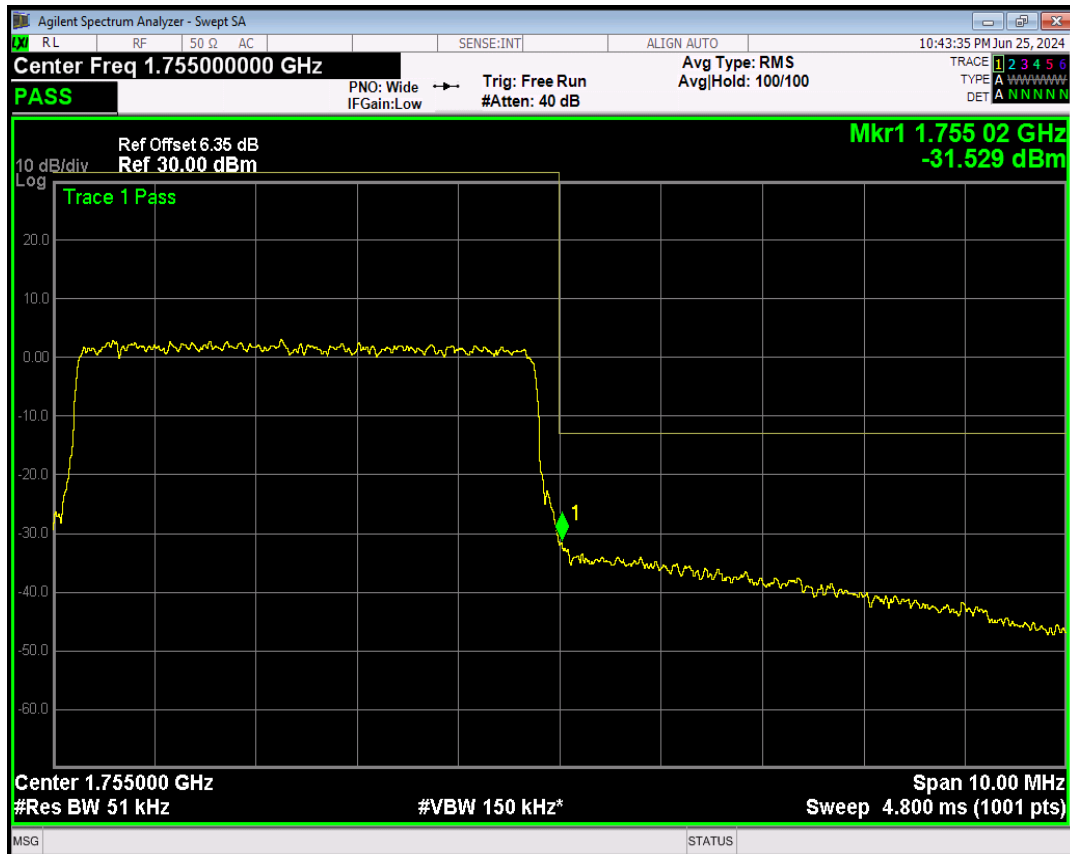




Band4 QPSK BW=5MHz Channel=20375 RB Size=25 Position=#0

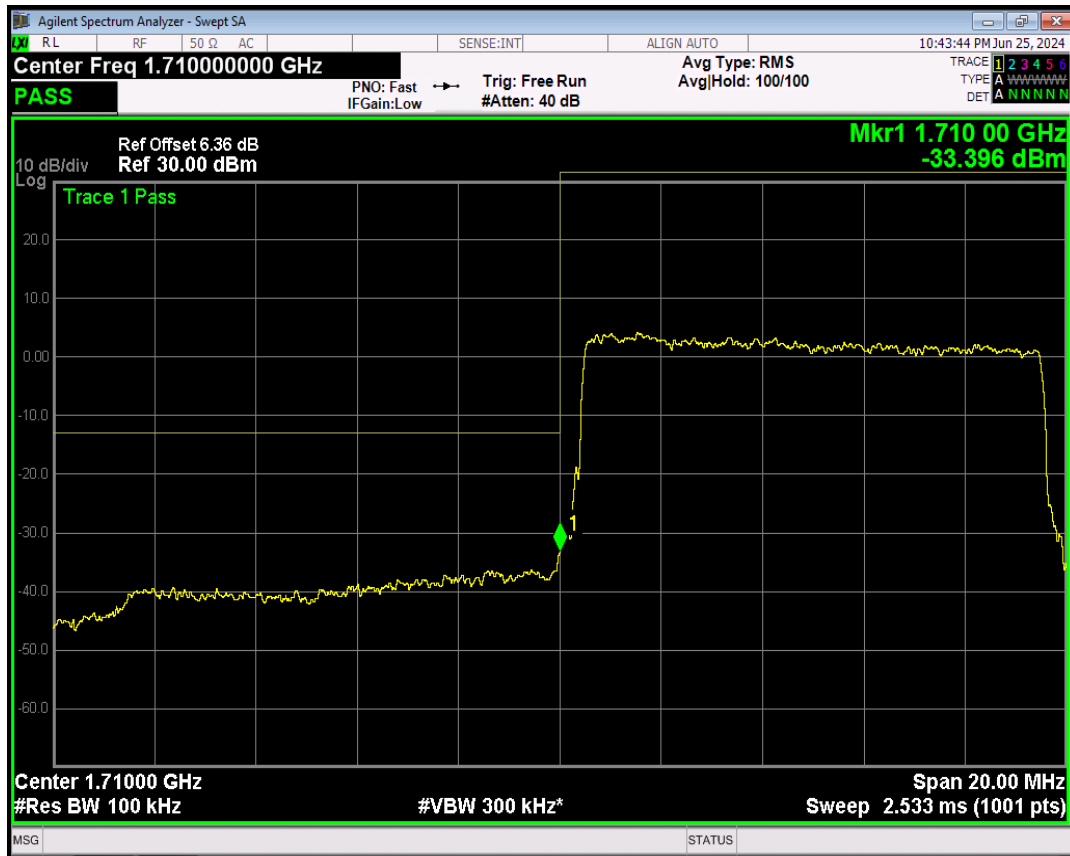


Band4 16QAM BW=5MHz Channel=20375 RB Size=25 Position=#0

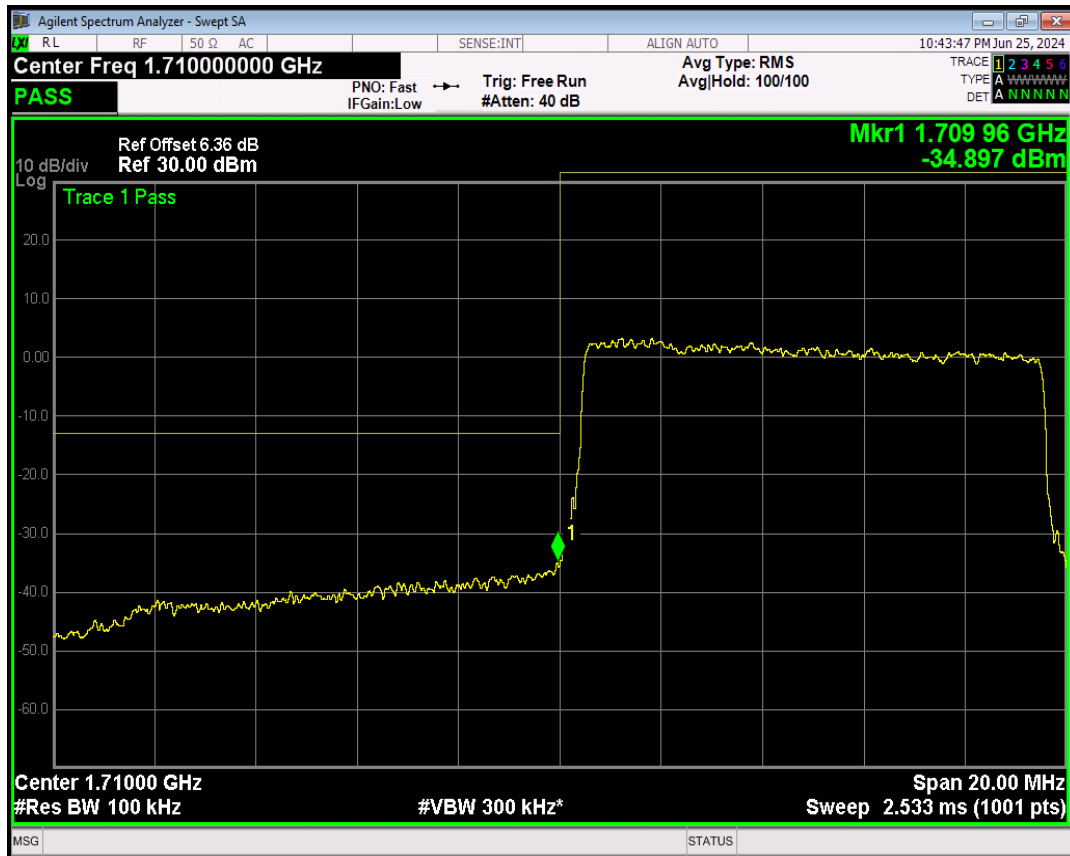




Band4 QPSK BW=10MHz Channel=20000 RB Size=50 Position=#0



Band4 16QAM BW=10MHz Channel=20000 RB Size=50 Position=#0





Band4 QPSK BW=10MHz Channel=20350 RB Size=50 Position=#0

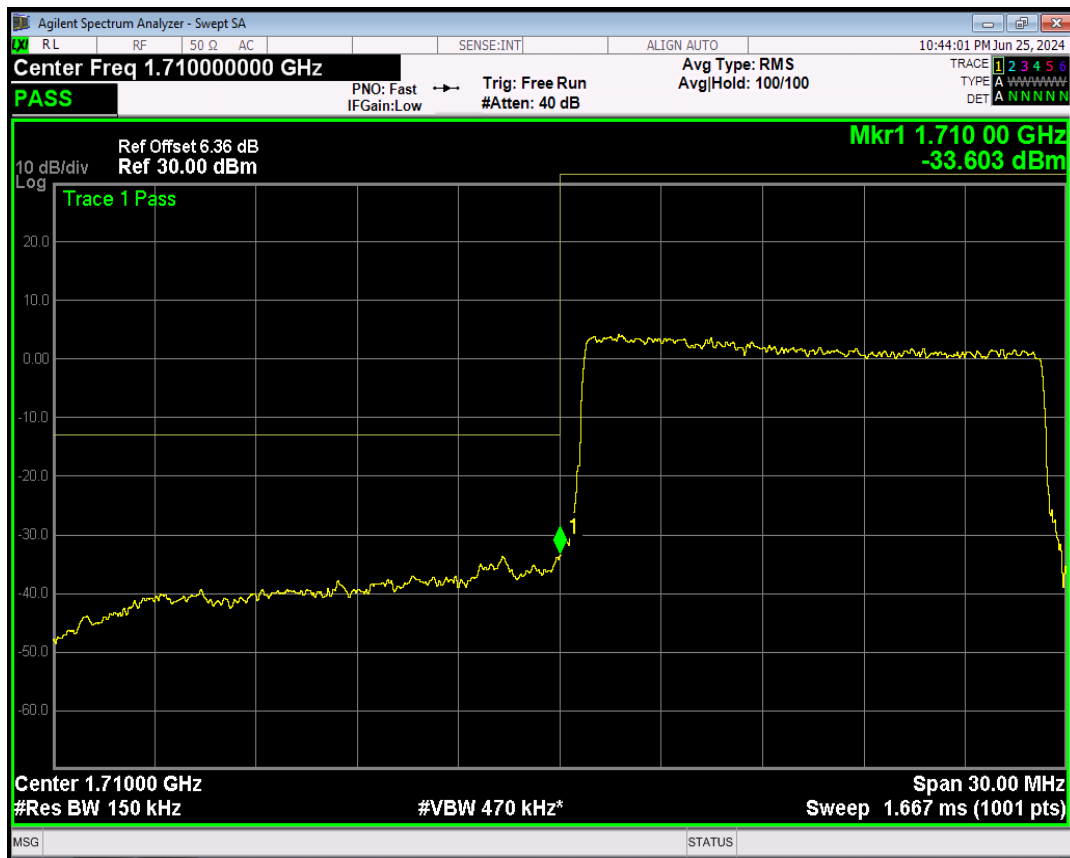


Band4 16QAM BW=10MHz Channel=20350 RB Size=50 Position=#0

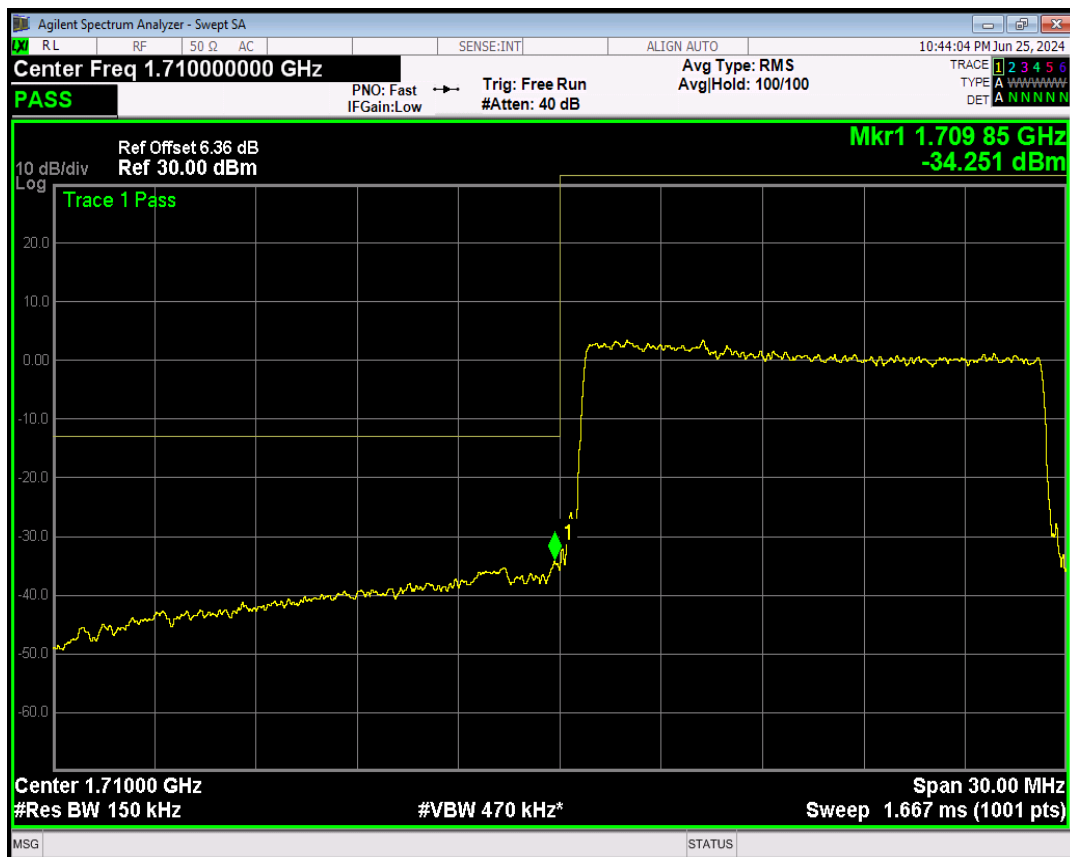




Band4 QPSK BW=15MHz Channel=20025 RB Size=75 Position=#0



Band4 16QAM BW=15MHz Channel=20025 RB Size=75 Position=#0

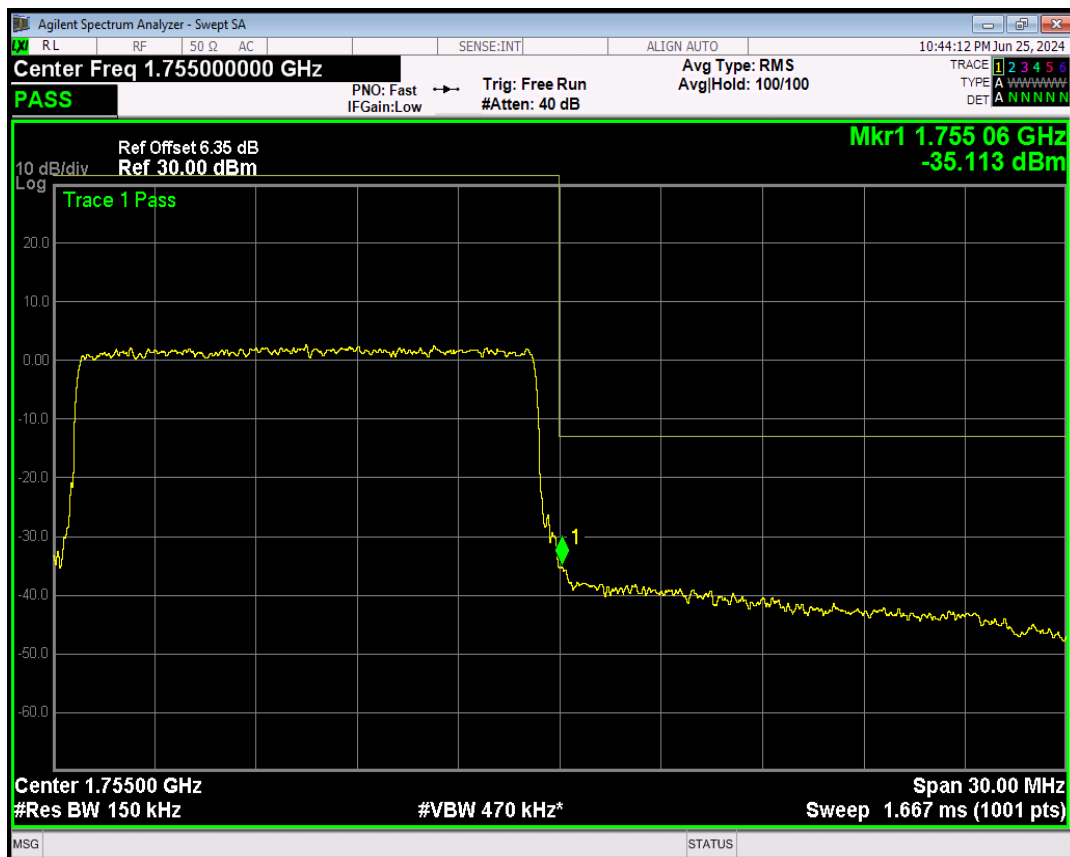




Band4 QPSK BW=15MHz Channel=20325 RB Size=75 Position=#0

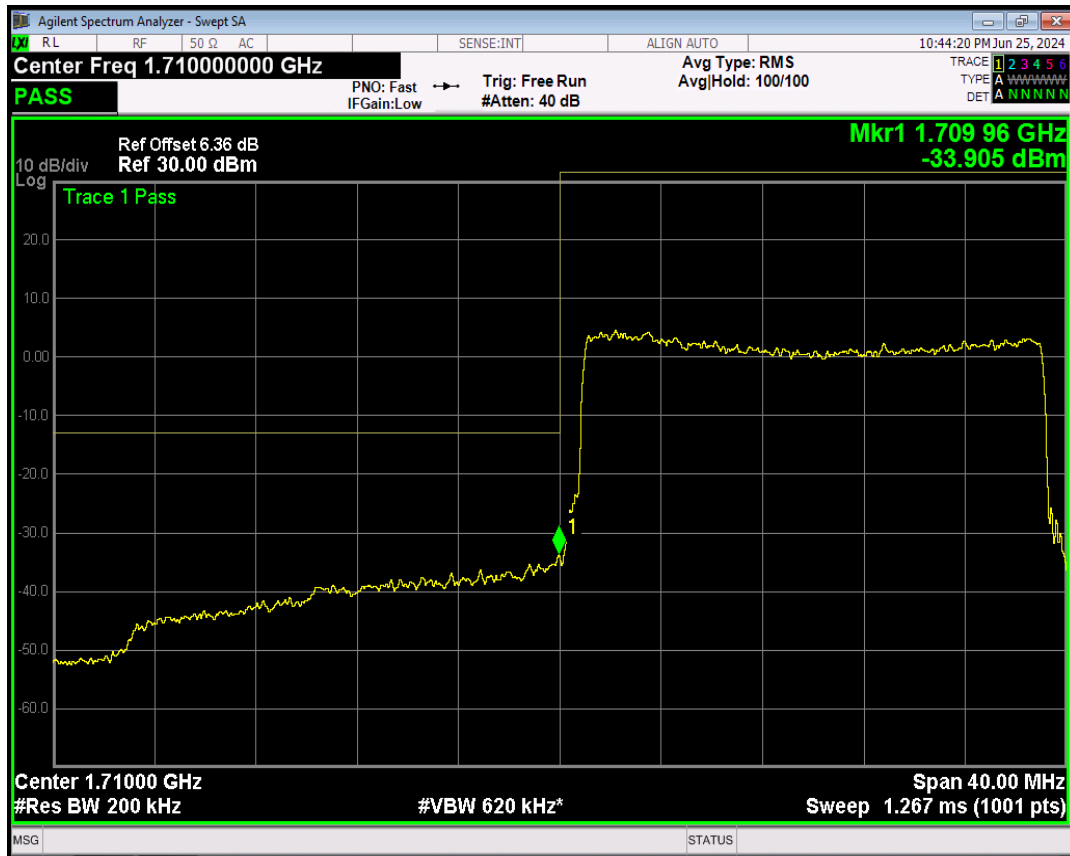


Band4 16QAM BW=15MHz Channel=20325 RB Size=75 Position=#0

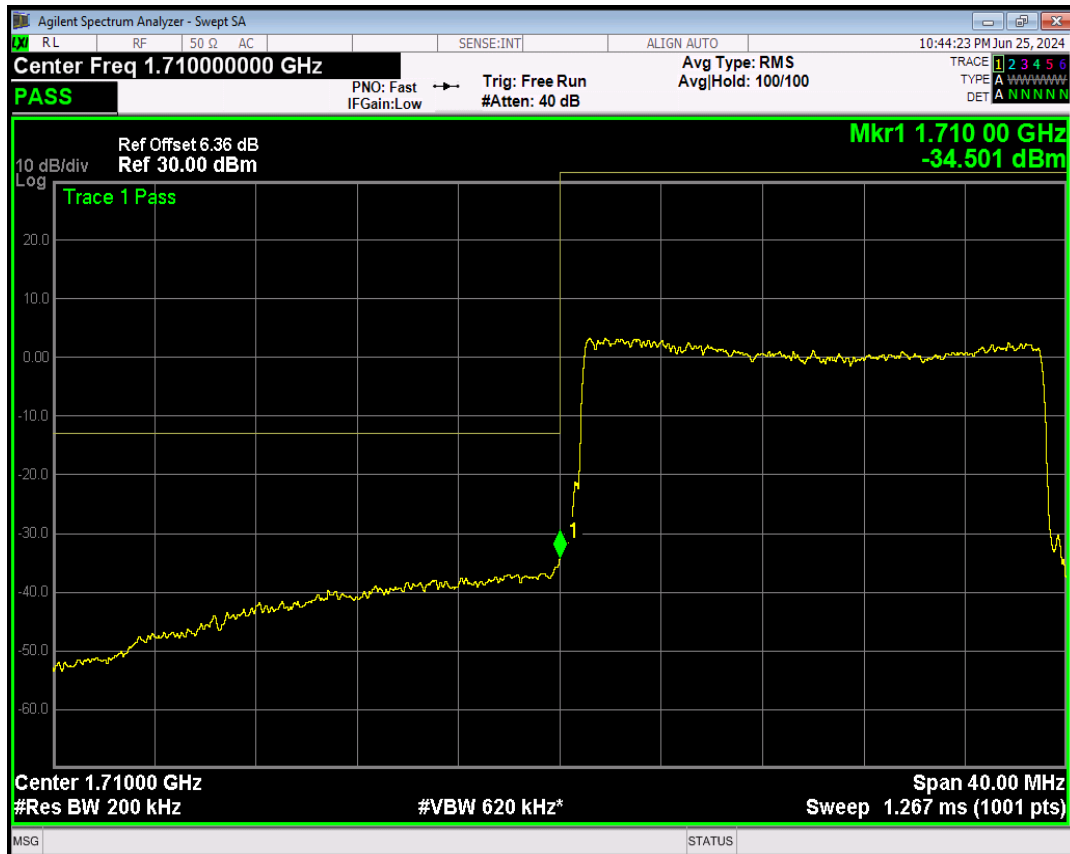




Band4 QPSK BW=20MHz Channel=20050 RB Size=100 Position=#0



Band4 16QAM BW=20MHz Channel=20050 RB Size=100 Position=#0

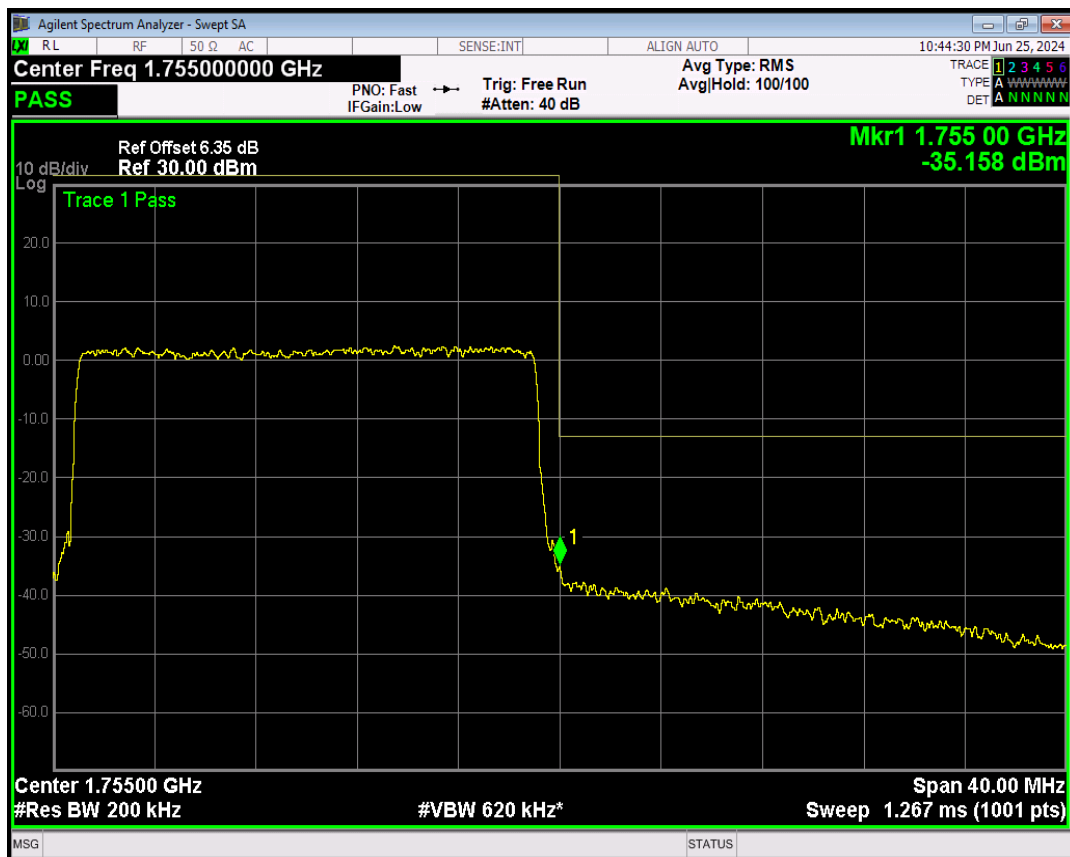




Band4 QPSK BW=20MHz Channel=20300 RB Size=100 Position=#0



Band4 16QAM BW=20MHz Channel=20300 RB Size=100 Position=#0

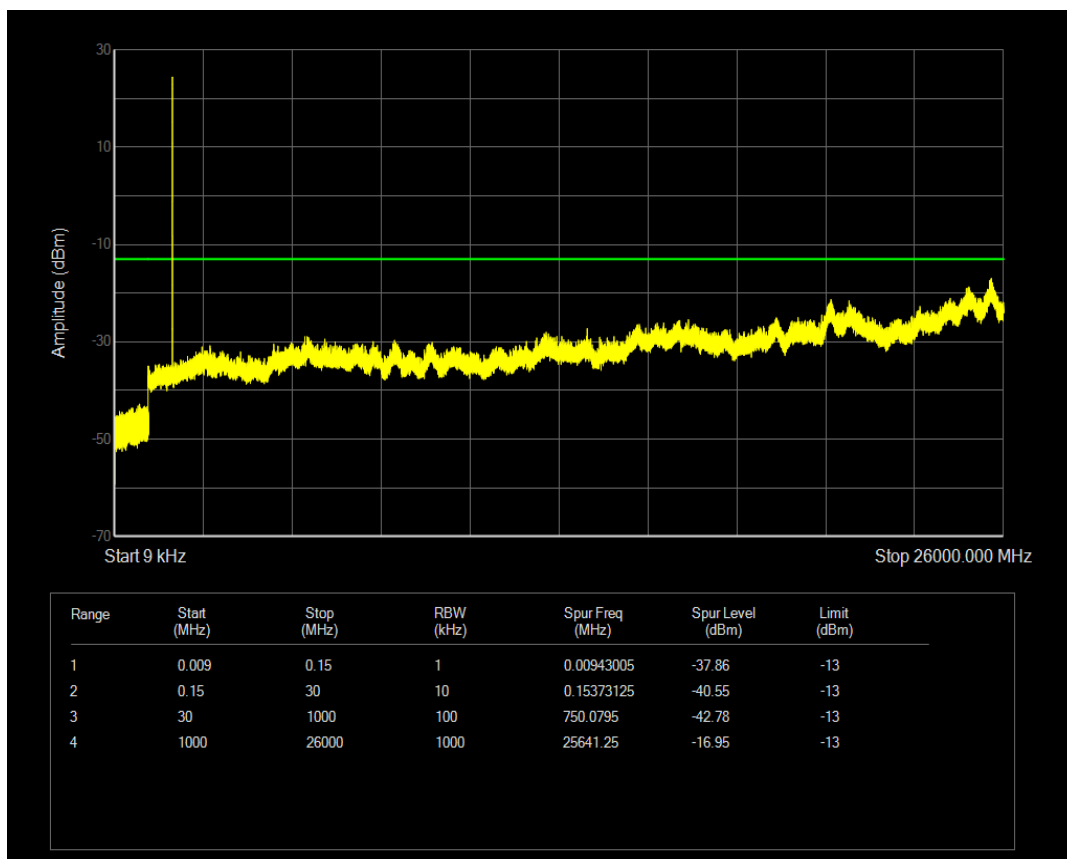


Appendix 6. Out-of-band emissions

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band4	1.4	19957	6	#0	QPSK	25641.25	-16.95	-13	PASS
Band4	1.4	19957	6	#0	16QAM	25711.25	-17.97	-13	PASS
Band4	1.4	20175	6	#0	QPSK	25675.00	-17.04	-13	PASS
Band4	1.4	20175	6	#0	16QAM	25666.25	-17.12	-13	PASS
Band4	1.4	20393	6	#0	QPSK	25626.25	-17.49	-13	PASS
Band4	1.4	20393	6	#0	16QAM	25614.38	-17.61	-13	PASS
Band4	3	19965	15	#0	QPSK	25563.13	-17.88	-13	PASS
Band4	3	19965	15	#0	16QAM	25586.88	-16.67	-13	PASS
Band4	3	20175	15	#0	QPSK	25631.88	-17.83	-13	PASS
Band4	3	20175	15	#0	16QAM	25658.75	-17.43	-13	PASS
Band4	3	20385	15	#0	QPSK	25555.63	-17.42	-13	PASS
Band4	3	20385	15	#0	16QAM	25613.13	-16.65	-13	PASS
Band4	5	19975	25	#0	QPSK	25604.38	-17.15	-13	PASS
Band4	5	19975	25	#0	16QAM	24970.63	-16.27	-13	PASS
Band4	5	20175	25	#0	QPSK	25601.88	-17.67	-13	PASS
Band4	5	20175	25	#0	16QAM	25626.25	-16.67	-13	PASS
Band4	5	20375	25	#0	QPSK	25666.88	-16.92	-13	PASS
Band4	5	20375	25	#0	16QAM	25643.75	-17.16	-13	PASS
Band4	10	20000	50	#0	QPSK	25614.38	-17.42	-13	PASS
Band4	10	20000	50	#0	16QAM	25604.38	-17.71	-13	PASS
Band4	10	20175	50	#0	QPSK	25566.88	-16.48	-13	PASS
Band4	10	20175	50	#0	16QAM	25688.75	-17.53	-13	PASS
Band4	10	20350	50	#0	QPSK	25628.75	-17.23	-13	PASS
Band4	10	20350	50	#0	16QAM	25618.13	-17.61	-13	PASS
Band4	15	20025	75	#0	QPSK	25646.25	-16.81	-13	PASS
Band4	15	20025	75	#0	16QAM	25605.63	-18.05	-13	PASS
Band4	15	20175	75	#0	QPSK	25593.13	-16.93	-13	PASS
Band4	15	20175	75	#0	16QAM	25663.13	-17.69	-13	PASS
Band4	15	20325	75	#0	QPSK	25651.88	-16.71	-13	PASS
Band4	15	20325	75	#0	16QAM	25623.13	-17.45	-13	PASS
Band4	20	20050	100	#0	QPSK	25616.25	-17.43	-13	PASS
Band4	20	20050	100	#0	16QAM	25674.38	-17.65	-13	PASS
Band4	20	20175	100	#0	QPSK	25509.38	-16.88	-13	PASS
Band4	20	20175	100	#0	16QAM	25748.75	-17.57	-13	PASS
Band4	20	20300	100	#0	QPSK	25616.25	-17.66	-13	PASS
Band4	20	20300	100	#0	16QAM	25750.00	-17.55	-13	PASS



Band4 QPSK BW=1.4MHz Channel=19957 RB Size=6 Position=#0



Band4 16QAM BW=1.4MHz Channel=19957 RB Size=6 Position=#0

