

FCC ID: 2A4FB-BP-M13

Appendix-BAND4

1. Conducted output power

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Conducted Power (dBm)	(Limit) (dBm)	Verdict
Band4	1.4	19957	1	#0	QPSK	17.13	30.01	PASS
Band4	1.4	19957	1	#Mid	QPSK	17.04	30.01	PASS
Band4	1.4	19957	1	#Max	QPSK	16.94	30.01	PASS
Band4	1.4	19957	3	#0	QPSK	17.19	30.01	PASS
Band4	1.4	19957	3	#Max	QPSK	16.96	30.01	PASS
Band4	1.4	19957	6	#0	QPSK	16.24	30.01	PASS
Band4	1.4	19957	1	#0	QAM16	16.25	30.01	PASS
Band4	1.4	19957	1	#Mid	QAM16	16.10	30.01	PASS
Band4	1.4	19957	1	#Max	QAM16	15.97	30.01	PASS
Band4	1.4	19957	3	#0	QAM16	16.21	30.01	PASS
Band4	1.4	19957	3	#Max	QAM16	16.13	30.01	PASS
Band4	1.4	19957	6	#0	QAM16	15.31	30.01	PASS
Band4	1.4	20175	1	#0	QPSK	15.45	30.01	PASS
Band4	1.4	20175	1	#Mid	QPSK	15.46	30.01	PASS
Band4	1.4	20175	1	#Max	QPSK	15.48	30.01	PASS
Band4	1.4	20175	3	#0	QPSK	15.39	30.01	PASS
Band4	1.4	20175	3	#Max	QPSK	15.52	30.01	PASS
Band4	1.4	20175	6	#0	QPSK	14.19	30.01	PASS
Band4	1.4	20175	1	#0	QAM16	14.31	30.01	PASS
Band4	1.4	20175	1	#Mid	QAM16	14.33	30.01	PASS
Band4	1.4	20175	1	#Max	QAM16	14.48	30.01	PASS
Band4	1.4	20175	3	#0	QAM16	14.15	30.01	PASS
Band4	1.4	20175	3	#Max	QAM16	14.21	30.01	PASS
Band4	1.4	20175	6	#0	QAM16	13.27	30.01	PASS
Band4	1.4	20393	1	#0	QPSK	14.26	30.01	PASS
Band4	1.4	20393	1	#Mid	QPSK	14.11	30.01	PASS
Band4	1.4	20393	1	#Max	QPSK	14.01	30.01	PASS
Band4	1.4	20393	3	#0	QPSK	14.11	30.01	PASS
Band4	1.4	20393	3	#Max	QPSK	14.04	30.01	PASS
Band4	1.4	20393	6	#0	QPSK	13.10	30.01	PASS
Band4	1.4	20393	1	#0	QAM16	13.10	30.01	PASS

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Band4	1.4	20393	1	#Mid	QAM16	12.90	30.01	PASS
Band4	1.4	20393	1	#Max	QAM16	12.94	30.01	PASS
Band4	1.4	20393	3	#0	QAM16	13.09	30.01	PASS
Band4	1.4	20393	3	#Max	QAM16	12.89	30.01	PASS
Band4	1.4	20393	6	#0	QAM16	12.25	30.01	PASS
Band4	3	19965	1	#0	QPSK	16.99	30.01	PASS
Band4	3	19965	1	#Mid	QPSK	16.90	30.01	PASS
Band4	3	19965	1	#Max	QPSK	16.42	30.01	PASS
Band4	3	19965	8	#0	QPSK	16.24	30.01	PASS
Band4	3	19965	8	#Max	QPSK	15.98	30.01	PASS
Band4	3	19965	15	#0	QPSK	16.24	30.01	PASS
Band4	3	19965	1	#0	QAM16	16.19	30.01	PASS
Band4	3	19965	1	#Mid	QAM16	15.90	30.01	PASS
Band4	3	19965	1	#Max	QAM16	15.55	30.01	PASS
Band4	3	19965	8	#0	QAM16	15.32	30.01	PASS
Band4	3	19965	8	#Max	QAM16	14.94	30.01	PASS
Band4	3	19965	15	#0	QAM16	15.11	30.01	PASS
Band4	3	20175	1	#0	QPSK	14.90	30.01	PASS
Band4	3	20175	1	#Mid	QPSK	15.18	30.01	PASS
Band4	3	20175	1	#Max	QPSK	15.47	30.01	PASS
Band4	3	20175	8	#0	QPSK	14.06	30.01	PASS
Band4	3	20175	8	#Max	QPSK	14.28	30.01	PASS
Band4	3	20175	15	#0	QPSK	14.18	30.01	PASS
Band4	3	20175	1	#0	QAM16	14.18	30.01	PASS
Band4	3	20175	1	#Mid	QAM16	14.52	30.01	PASS
Band4	3	20175	1	#Max	QAM16	14.67	30.01	PASS
Band4	3	20175	8	#0	QAM16	13.15	30.01	PASS
Band4	3	20175	8	#Max	QAM16	13.49	30.01	PASS
Band4	3	20175	15	#0	QAM16	13.31	30.01	PASS
Band4	3	20385	1	#0	QPSK	14.45	30.01	PASS
Band4	3	20385	1	#Mid	QPSK	14.33	30.01	PASS
Band4	3	20385	1	#Max	QPSK	14.26	30.01	PASS
Band4	3	20385	8	#0	QPSK	13.51	30.01	PASS
Band4	3	20385	8	#Max	QPSK	13.30	30.01	PASS
Band4	3	20385	15	#0	QPSK	13.35	30.01	PASS
Band4	3	20385	1	#0	QAM16	13.42	30.01	PASS
Band4	3	20385	1	#Mid	QAM16	13.33	30.01	PASS
Band4	3	20385	1	#Max	QAM16	12.97	30.01	PASS
Band4	3	20385	8	#0	QAM16	12.52	30.01	PASS
Band4	3	20385	8	#Max	QAM16	12.27	30.01	PASS
Band4	3	20385	15	#0	QAM16	12.55	30.01	PASS
Band4	5	19975	1	#0	QPSK	17.03	30.01	PASS
Band4	5	19975	1	#Mid	QPSK	16.55	30.01	PASS
Band4	5	19975	1	#Max	QPSK	15.79	30.01	PASS

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Band4	5	19975	12	#0	QPSK	16.06	30.01	PASS
Band4	5	19975	12	#Max	QPSK	15.25	30.01	PASS
Band4	5	19975	25	#0	QPSK	15.77	30.01	PASS
Band4	5	19975	1	#0	QAM16	16.45	30.01	PASS
Band4	5	19975	1	#Mid	QAM16	15.95	30.01	PASS
Band4	5	19975	1	#Max	QAM16	15.32	30.01	PASS
Band4	5	19975	12	#0	QAM16	15.29	30.01	PASS
Band4	5	19975	12	#Max	QAM16	14.51	30.01	PASS
Band4	5	19975	25	#0	QAM16	14.77	30.01	PASS
Band4	5	20175	1	#0	QPSK	14.81	30.01	PASS
Band4	5	20175	1	#Mid	QPSK	15.40	30.01	PASS
Band4	5	20175	1	#Max	QPSK	15.77	30.01	PASS
Band4	5	20175	12	#0	QPSK	13.77	30.01	PASS
Band4	5	20175	12	#Max	QPSK	14.43	30.01	PASS
Band4	5	20175	25	#0	QPSK	14.23	30.01	PASS
Band4	5	20175	1	#0	QAM16	14.18	30.01	PASS
Band4	5	20175	1	#Mid	QAM16	14.61	30.01	PASS
Band4	5	20175	1	#Max	QAM16	14.99	30.01	PASS
Band4	5	20175	12	#0	QAM16	12.99	30.01	PASS
Band4	5	20175	12	#Max	QAM16	13.71	30.01	PASS
Band4	5	20175	25	#0	QAM16	13.42	30.01	PASS
Band4	5	20375	1	#0	QPSK	14.85	30.01	PASS
Band4	5	20375	1	#Mid	QPSK	14.62	30.01	PASS
Band4	5	20375	1	#Max	QPSK	14.12	30.01	PASS
Band4	5	20375	12	#0	QPSK	13.57	30.01	PASS
Band4	5	20375	12	#Max	QPSK	13.14	30.01	PASS
Band4	5	20375	25	#0	QPSK	13.35	30.01	PASS
Band4	5	20375	1	#0	QAM16	14.05	30.01	PASS
Band4	5	20375	1	#Mid	QAM16	13.65	30.01	PASS
Band4	5	20375	1	#Max	QAM16	13.25	30.01	PASS
Band4	5	20375	12	#0	QAM16	12.73	30.01	PASS
Band4	5	20375	12	#Max	QAM16	12.37	30.01	PASS
Band4	5	20375	25	#0	QAM16	12.69	30.01	PASS
Band4	10	20000	1	#0	QPSK	16.83	30.01	PASS
Band4	10	20000	1	#Mid	QPSK	15.28	30.01	PASS
Band4	10	20000	1	#Max	QPSK	14.16	30.01	PASS
Band4	10	20000	25	#0	QPSK	15.27	30.01	PASS
Band4	10	20000	25	#Max	QPSK	13.56	30.01	PASS
Band4	10	20000	50	#0	QPSK	14.44	30.01	PASS
Band4	10	20000	1	#0	QAM16	16.23	30.01	PASS
Band4	10	20000	1	#Mid	QAM16	14.73	30.01	PASS
Band4	10	20000	1	#Max	QAM16	13.60	30.01	PASS
Band4	10	20000	25	#0	QAM16	14.34	30.01	PASS
Band4	10	20000	25	#Max	QAM16	12.79	30.01	PASS

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Band4	10	20175	1	#0	QPSK	14.33	30.01	PASS
Band4	10	20175	1	#Mid	QPSK	15.30	30.01	PASS
Band4	10	20175	1	#Max	QPSK	15.94	30.01	PASS
Band4	10	20175	25	#0	QPSK	13.54	30.01	PASS
Band4	10	20175	25	#Max	QPSK	14.59	30.01	PASS
Band4	10	20175	50	#0	QPSK	14.08	30.01	PASS
Band4	10	20175	1	#0	QAM16	13.54	30.01	PASS
Band4	10	20175	1	#Mid	QAM16	14.36	30.01	PASS
Band4	10	20175	1	#Max	QAM16	15.13	30.01	PASS
Band4	10	20175	25	#0	QAM16	12.64	30.01	PASS
Band4	10	20175	25	#Max	QAM16	13.75	30.01	PASS
Band4	10	20350	1	#0	QPSK	15.35	30.01	PASS
Band4	10	20350	1	#Mid	QPSK	14.64	30.01	PASS
Band4	10	20350	1	#Max	QPSK	13.83	30.01	PASS
Band4	10	20350	25	#0	QPSK	13.84	30.01	PASS
Band4	10	20350	25	#Max	QPSK	13.05	30.01	PASS
Band4	10	20350	50	#0	QPSK	13.50	30.01	PASS
Band4	10	20350	1	#0	QAM16	14.26	30.01	PASS
Band4	10	20350	1	#Mid	QAM16	13.40	30.01	PASS
Band4	10	20350	1	#Max	QAM16	12.61	30.01	PASS
Band4	10	20350	25	#0	QAM16	13.01	30.01	PASS
Band4	10	20350	25	#Max	QAM16	12.25	30.01	PASS
Band4	15	20025	1	#0	QPSK	16.82	30.01	PASS
Band4	15	20025	1	#Mid	QPSK	14.76	30.01	PASS
Band4	15	20025	1	#Max	QPSK	14.00	30.01	PASS
Band4	15	20025	36	#0	QPSK	14.98	30.01	PASS
Band4	15	20025	36	#Max	QPSK	13.07	30.01	PASS
Band4	15	20025	75	#0	QPSK	13.97	30.01	PASS
Band4	15	20025	1	#0	QAM16	16.19	30.01	PASS
Band4	15	20025	1	#Mid	QAM16	13.97	30.01	PASS
Band4	15	20025	1	#Max	QAM16	13.22	30.01	PASS
Band4	15	20025	27	#0	QAM16	14.36	30.01	PASS
Band4	15	20025	27	#Max	QAM16	12.06	30.01	PASS
Band4	15	20175	1	#0	QPSK	14.10	30.01	PASS
Band4	15	20175	1	#Mid	QPSK	15.42	30.01	PASS
Band4	15	20175	1	#Max	QPSK	16.03	30.01	PASS
Band4	15	20175	36	#0	QPSK	13.55	30.01	PASS
Band4	15	20175	36	#Max	QPSK	15.07	30.01	PASS
Band4	15	20175	75	#0	QPSK	14.48	30.01	PASS
Band4	15	20175	1	#0	QAM16	13.33	30.01	PASS
Band4	15	20175	1	#Mid	QAM16	14.57	30.01	PASS
Band4	15	20175	1	#Max	QAM16	15.29	30.01	PASS
Band4	15	20175	27	#0	QAM16	12.51	30.01	PASS
Band4	15	20175	27	#Max	QAM16	14.35	30.01	PASS

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Band4	15	20325	1	#0	QPSK	15.93	30.01	PASS
Band4	15	20325	1	#Mid	QPSK	15.17	30.01	PASS
Band4	15	20325	1	#Max	QPSK	14.10	30.01	PASS
Band4	15	20325	36	#0	QPSK	14.77	30.01	PASS
Band4	15	20325	36	#Max	QPSK	13.75	30.01	PASS
Band4	15	20325	75	#0	QPSK	14.22	30.01	PASS
Band4	15	20325	1	#0	QAM16	15.26	30.01	PASS
Band4	15	20325	1	#Mid	QAM16	14.38	30.01	PASS
Band4	15	20325	1	#Max	QAM16	13.26	30.01	PASS
Band4	15	20325	27	#0	QAM16	13.19	30.01	PASS
Band4	15	20325	27	#Max	QAM16	12.72	30.01	PASS
Band4	20	20050	1	#0	QPSK	16.89	30.01	PASS
Band4	20	20050	1	#Mid	QPSK	14.24	30.01	PASS
Band4	20	20050	1	#Max	QPSK	14.43	30.01	PASS
Band4	20	20050	50	#0	QPSK	14.41	30.01	PASS
Band4	20	20050	50	#Max	QPSK	12.90	30.01	PASS
Band4	20	20050	100	#0	QPSK	13.68	30.01	PASS
Band4	20	20050	1	#0	QAM16	16.09	30.01	PASS
Band4	20	20050	1	#Mid	QAM16	13.42	30.01	PASS
Band4	20	20050	1	#Max	QAM16	13.65	30.01	PASS
Band4	20	20050	27	#0	QAM16	14.22	30.01	PASS
Band4	20	20050	27	#Max	QAM16	12.14	30.01	PASS
Band4	20	20175	1	#0	QPSK	14.01	30.01	PASS
Band4	20	20175	1	#Mid	QPSK	15.56	30.01	PASS
Band4	20	20175	1	#Max	QPSK	15.41	30.01	PASS
Band4	20	20175	50	#0	QPSK	13.19	30.01	PASS
Band4	20	20175	50	#Max	QPSK	14.92	30.01	PASS
Band4	20	20175	100	#0	QPSK	14.40	30.01	PASS
Band4	20	20175	1	#0	QAM16	13.04	30.01	PASS
Band4	20	20175	1	#Mid	QAM16	14.58	30.01	PASS
Band4	20	20175	1	#Max	QAM16	15.20	30.01	PASS
Band4	20	20175	27	#0	QAM16	12.10	30.01	PASS
Band4	20	20175	27	#Max	QAM16	14.45	30.01	PASS
Band4	20	20300	1	#0	QPSK	16.12	30.01	PASS
Band4	20	20300	1	#Mid	QPSK	15.60	30.01	PASS
Band4	20	20300	1	#Max	QPSK	14.09	30.01	PASS
Band4	20	20300	50	#0	QPSK	15.08	30.01	PASS
Band4	20	20300	50	#Max	QPSK	13.89	30.01	PASS
Band4	20	20300	100	#0	QPSK	14.40	30.01	PASS
Band4	20	20300	1	#0	QAM16	14.66	30.01	PASS
Band4	20	20300	1	#Mid	QAM16	14.79	30.01	PASS
Band4	20	20300	1	#Max	QAM16	13.31	30.01	PASS
Band4	20	20300	27	#0	QAM16	14.27	30.01	PASS
Band4	20	20300	27	#Max	QAM16	12.60	30.01	PASS

2. Frequency stability

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Voltage (Vdc)	Temperature (°C)	Result(Hz)	Result (ppm)	Limit (ppm)	Verdict
Band4	20	20050	100	#0	QPSK	VL	NT	-19.55	-0.011	±2.5	PASS
Band4	20	20050	100	#0	QPSK	VN	NT	-19.72	-0.011	±2.5	PASS
Band4	20	20050	100	#0	QPSK	VH	NT	-19.05	-0.011	±2.5	PASS
Band4	20	20050	100	#0	QPSK	NV	50	-17.25	-0.010	±2.5	PASS
Band4	20	20050	100	#0	QPSK	NV	40	-21.71	-0.013	±2.5	PASS
Band4	20	20050	100	#0	QPSK	NV	30	-19.38	-0.011	±2.5	PASS
Band4	20	20050	100	#0	QPSK	NV	20	-17.98	-0.010	±2.5	PASS
Band4	20	20050	100	#0	QPSK	NV	10	-21.48	-0.012	±2.5	PASS
Band4	20	20050	100	#0	QPSK	NV	0	-21.08	-0.012	±2.5	PASS
Band4	20	20050	100	#0	QPSK	NV	-10	-19.28	-0.011	±2.5	PASS
Band4	20	20050	100	#0	QPSK	NV	-20	-17.96	-0.010	±2.5	PASS
Band4	20	20050	100	#0	QPSK	NV	-30	-16.80	-0.010	±2.5	PASS
Band4	20	20050	27	#0	QAM16	VL	NT	-20.09	-0.012	±2.5	PASS
Band4	20	20050	27	#0	QAM16	VN	NT	-17.75	-0.010	±2.5	PASS
Band4	20	20050	27	#0	QAM16	VH	NT	-19.16	-0.011	±2.5	PASS
Band4	20	20050	27	#0	QAM16	NV	50	-17.23	-0.010	±2.5	PASS
Band4	20	20050	27	#0	QAM16	NV	40	-14.69	-0.009	±2.5	PASS
Band4	20	20050	27	#0	QAM16	NV	30	-16.52	-0.010	±2.5	PASS
Band4	20	20050	27	#0	QAM16	NV	20	-16.36	-0.010	±2.5	PASS
Band4	20	20050	27	#0	QAM16	NV	10	-17.33	-0.010	±2.5	PASS
Band4	20	20050	27	#0	QAM16	NV	0	-17.35	-0.010	±2.5	PASS
Band4	20	20050	27	#0	QAM16	NV	-10	-18.78	-0.011	±2.5	PASS
Band4	20	20050	27	#0	QAM16	NV	-20	-16.50	-0.010	±2.5	PASS
Band4	20	20050	27	#0	QAM16	NV	-30	-17.68	-0.010	±2.5	PASS
Band4	20	20175	100	#0	QPSK	VL	NT	-15.34	-0.009	±2.5	PASS
Band4	20	20175	100	#0	QPSK	VN	NT	-20.97	-0.012	±2.5	PASS
Band4	20	20175	100	#0	QPSK	VH	NT	-23.56	-0.014	±2.5	PASS
Band4	20	20175	100	#0	QPSK	NV	50	-20.94	-0.012	±2.5	PASS
Band4	20	20175	100	#0	QPSK	NV	40	-22.07	-0.013	±2.5	PASS
Band4	20	20175	100	#0	QPSK	NV	30	-19.75	-0.011	±2.5	PASS
Band4	20	20175	100	#0	QPSK	NV	20	-18.93	-0.011	±2.5	PASS
Band4	20	20175	100	#0	QPSK	NV	10	-20.21	-0.012	±2.5	PASS
Band4	20	20175	100	#0	QPSK	NV	0	-17.78	-0.010	±2.5	PASS
Band4	20	20175	100	#0	QPSK	NV	-10	-18.52	-0.011	±2.5	PASS
Band4	20	20175	100	#0	QPSK	NV	-20	-20.98	-0.012	±2.5	PASS
Band4	20	20175	100	#0	QPSK	NV	-30	-20.91	-0.012	±2.5	PASS
Band4	20	20175	27	#0	QAM16	VL	NT	-16.50	-0.010	±2.5	PASS
Band4	20	20175	27	#0	QAM16	VN	NT	-19.22	-0.011	±2.5	PASS
Band4	20	20175	27	#0	QAM16	VH	NT	-20.39	-0.012	±2.5	PASS

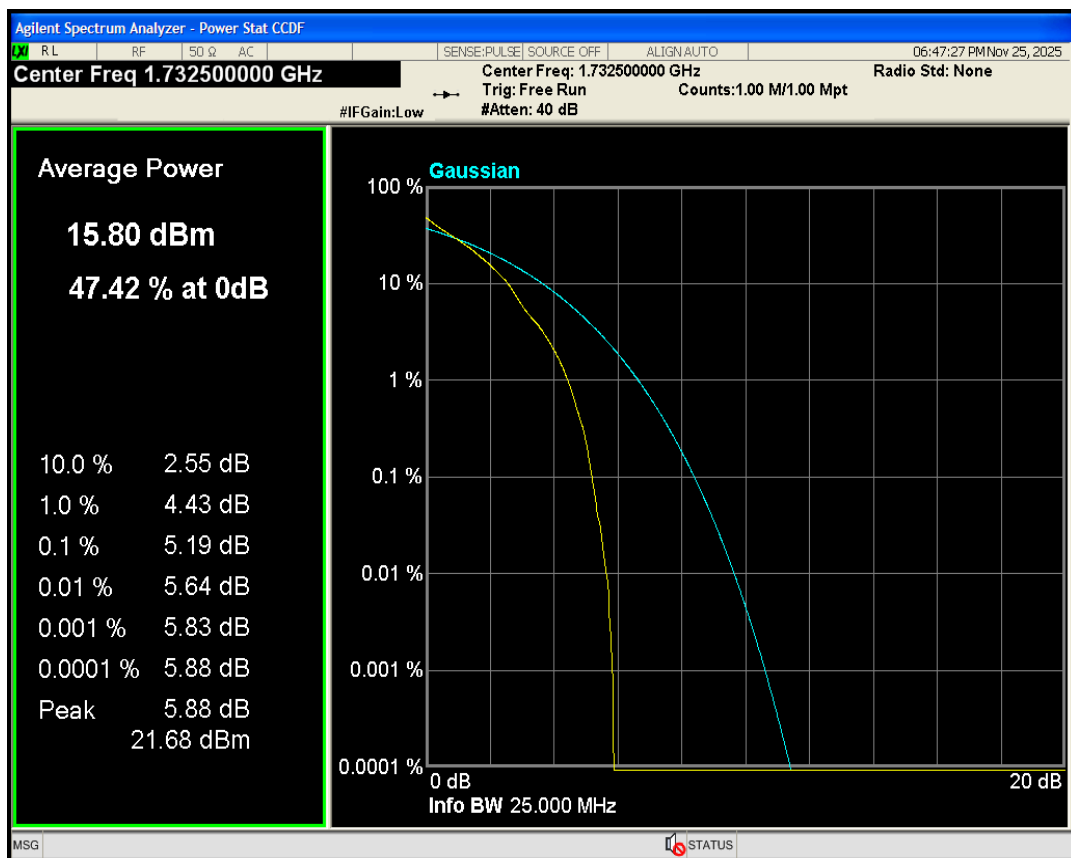
Report

Band4	20	20175	27	#0	QAM16	NV	50	-16.93	-0.010	±2.5	PASS
Band4	20	20175	27	#0	QAM16	NV	40	-16.30	-0.009	±2.5	PASS
Band4	20	20175	27	#0	QAM16	NV	30	-17.59	-0.010	±2.5	PASS
Band4	20	20175	27	#0	QAM16	NV	20	-15.92	-0.009	±2.5	PASS
Band4	20	20175	27	#0	QAM16	NV	10	-13.86	-0.008	±2.5	PASS
Band4	20	20175	27	#0	QAM16	NV	0	-15.04	-0.009	±2.5	PASS
Band4	20	20175	27	#0	QAM16	NV	-10	-18.15	-0.010	±2.5	PASS
Band4	20	20175	27	#0	QAM16	NV	-20	-15.99	-0.009	±2.5	PASS
Band4	20	20175	27	#0	QAM16	NV	-30	-15.89	-0.009	±2.5	PASS
Band4	20	20300	100	#0	QPSK	VL	NT	-17.28	-0.010	±2.5	PASS
Band4	20	20300	100	#0	QPSK	VN	NT	-16.70	-0.010	±2.5	PASS
Band4	20	20300	100	#0	QPSK	VH	NT	-18.34	-0.010	±2.5	PASS
Band4	20	20300	100	#0	QPSK	NV	50	-18.29	-0.010	±2.5	PASS
Band4	20	20300	100	#0	QPSK	NV	40	-18.68	-0.011	±2.5	PASS
Band4	20	20300	100	#0	QPSK	NV	30	-18.05	-0.010	±2.5	PASS
Band4	20	20300	100	#0	QPSK	NV	20	-15.62	-0.009	±2.5	PASS
Band4	20	20300	100	#0	QPSK	NV	10	-18.92	-0.011	±2.5	PASS
Band4	20	20300	100	#0	QPSK	NV	0	-18.31	-0.010	±2.5	PASS
Band4	20	20300	100	#0	QPSK	NV	-10	-17.78	-0.010	±2.5	PASS
Band4	20	20300	100	#0	QPSK	NV	-20	-17.35	-0.010	±2.5	PASS
Band4	20	20300	100	#0	QPSK	NV	-30	-18.12	-0.010	±2.5	PASS
Band4	20	20300	27	#0	QAM16	VL	NT	-17.46	-0.010	±2.5	PASS
Band4	20	20300	27	#0	QAM16	VN	NT	-17.55	-0.010	±2.5	PASS
Band4	20	20300	27	#0	QAM16	VH	NT	-15.00	-0.009	±2.5	PASS
Band4	20	20300	27	#0	QAM16	NV	50	-16.63	-0.010	±2.5	PASS
Band4	20	20300	27	#0	QAM16	NV	40	-16.83	-0.010	±2.5	PASS
Band4	20	20300	27	#0	QAM16	NV	30	-17.79	-0.010	±2.5	PASS
Band4	20	20300	27	#0	QAM16	NV	20	-17.56	-0.010	±2.5	PASS
Band4	20	20300	27	#0	QAM16	NV	10	-16.03	-0.009	±2.5	PASS
Band4	20	20300	27	#0	QAM16	NV	0	-16.29	-0.009	±2.5	PASS
Band4	20	20300	27	#0	QAM16	NV	-10	-17.66	-0.010	±2.5	PASS
Band4	20	20300	27	#0	QAM16	NV	-20	-14.96	-0.009	±2.5	PASS
Band4	20	20300	27	#0	QAM16	NV	-30	-14.24	-0.008	±2.5	PASS

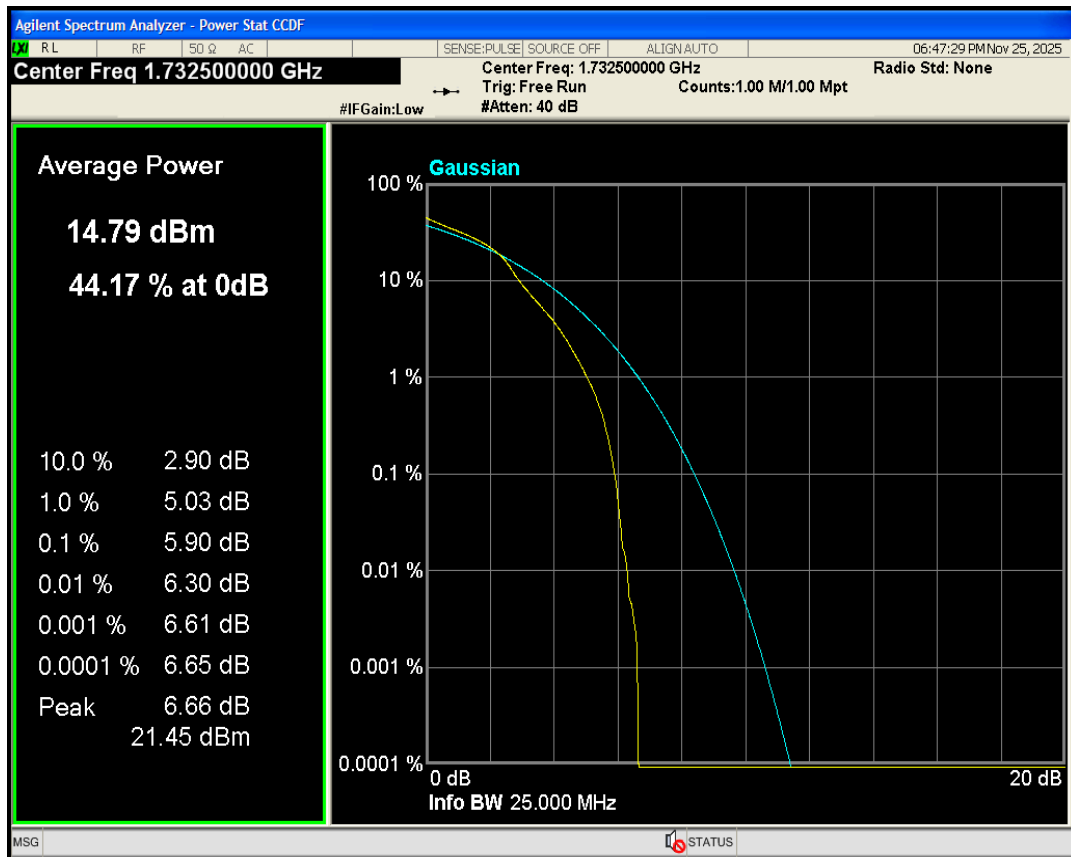
3. Peak-to-Average Ratio

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result (dB)	high Limit (dB)	Verdict
Band4	1.4	20175	1	#0	QPSK	5.19	13	PASS
Band4	1.4	20175	1	#0	QAM16	5.90	13	PASS
Band4	3	20175	1	#0	QPSK	5.76	13	PASS
Band4	3	20175	1	#0	QAM16	6.70	13	PASS
Band4	5	20175	1	#0	QPSK	6.18	13	PASS
Band4	5	20175	1	#0	QAM16	6.26	13	PASS
Band4	10	20175	1	#0	QPSK	6.03	13	PASS
Band4	10	20175	1	#0	QAM16	6.89	13	PASS
Band4	15	20175	1	#0	QPSK	6.13	13	PASS
Band4	15	20175	1	#0	QAM16	7.00	13	PASS
Band4	20	20175	1	#0	QPSK	5.83	13	PASS
Band4	20	20175	1	#0	QAM16	6.22	13	PASS

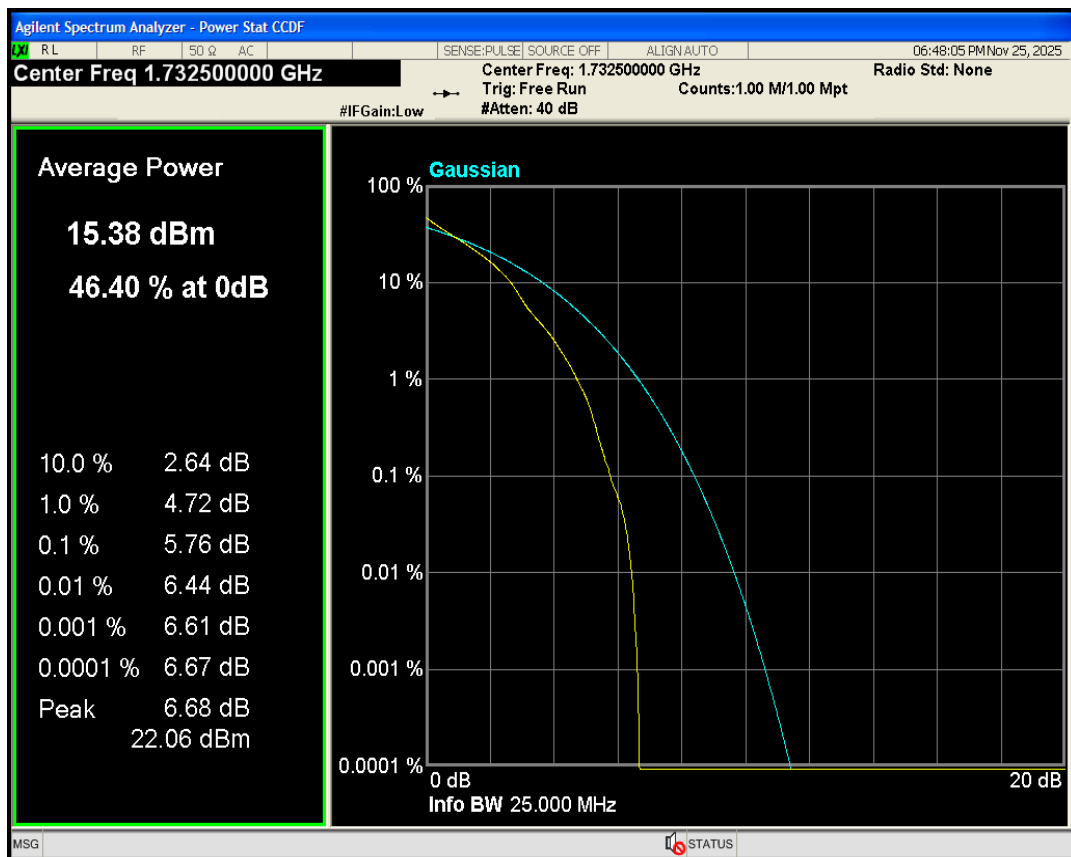
Band4 QPSK BW=1.4MHz Channel=20175 RB Size=1 Position=#0



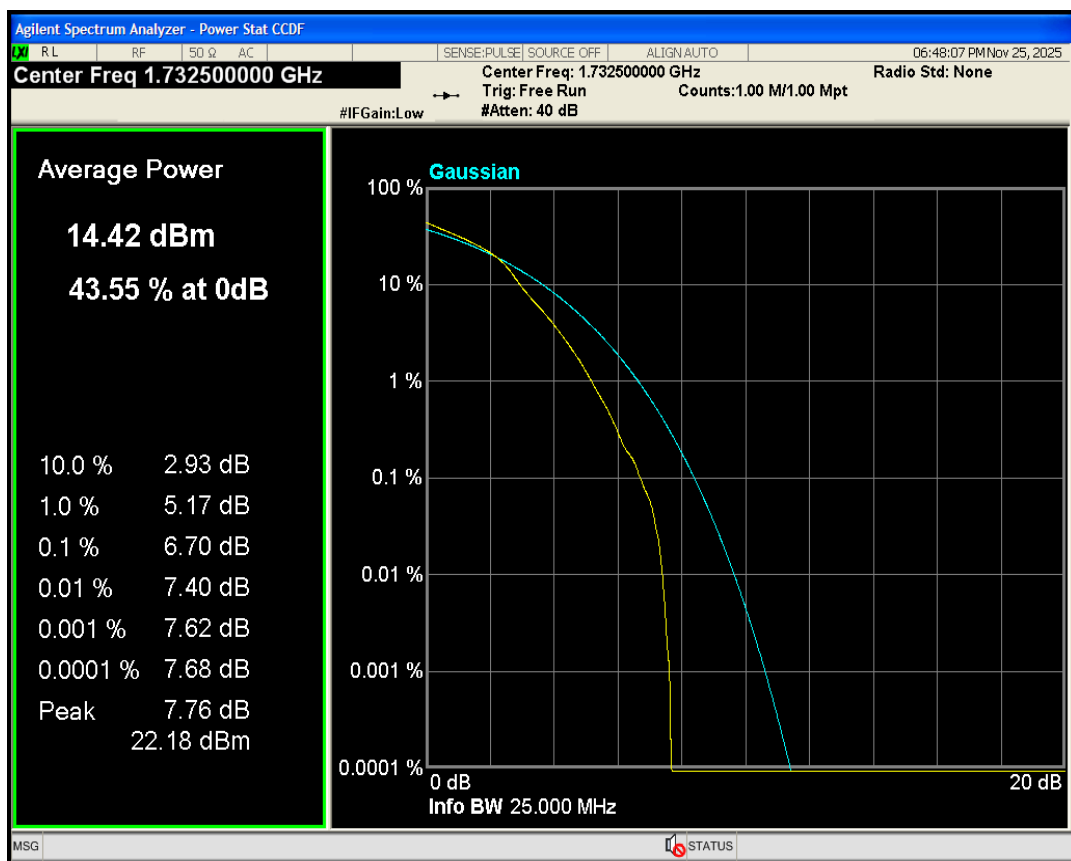
Band4 QAM16 BW=1.4MHz Channel=20175 RB Size=1 Position=#0



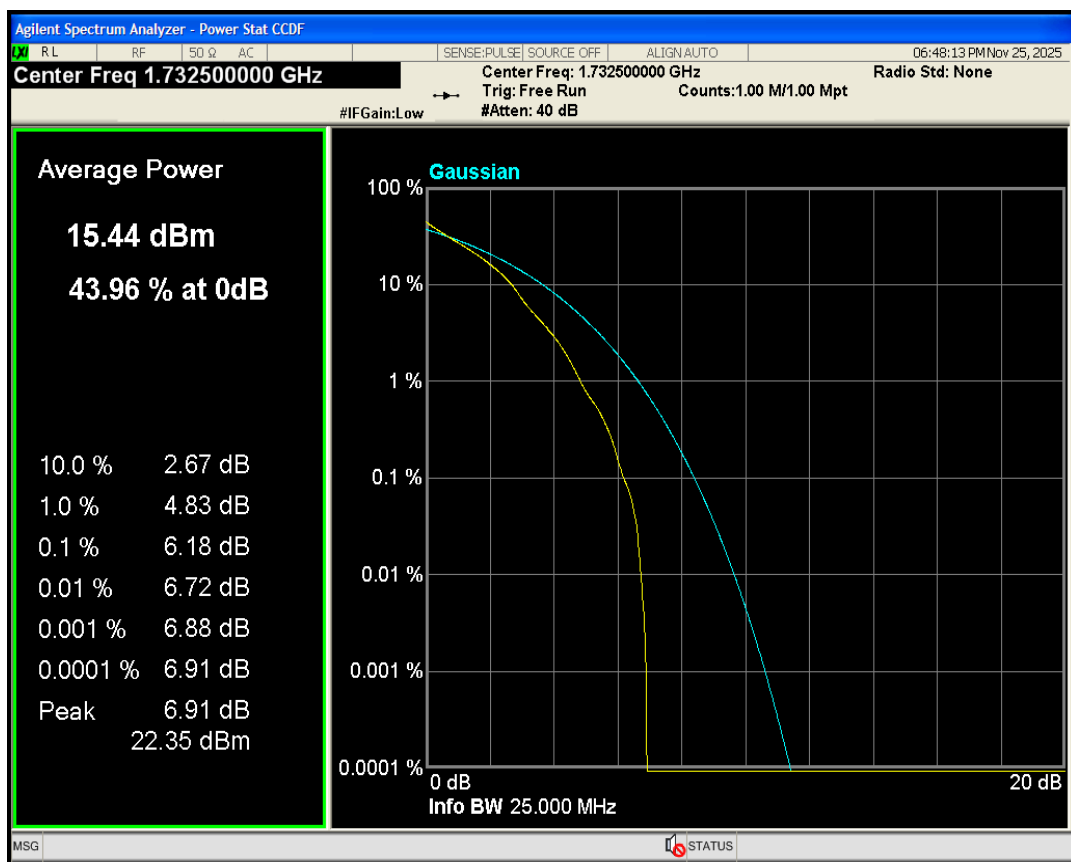
Band4 QPSK BW=3MHz Channel=20175 RB Size=1 Position=#0



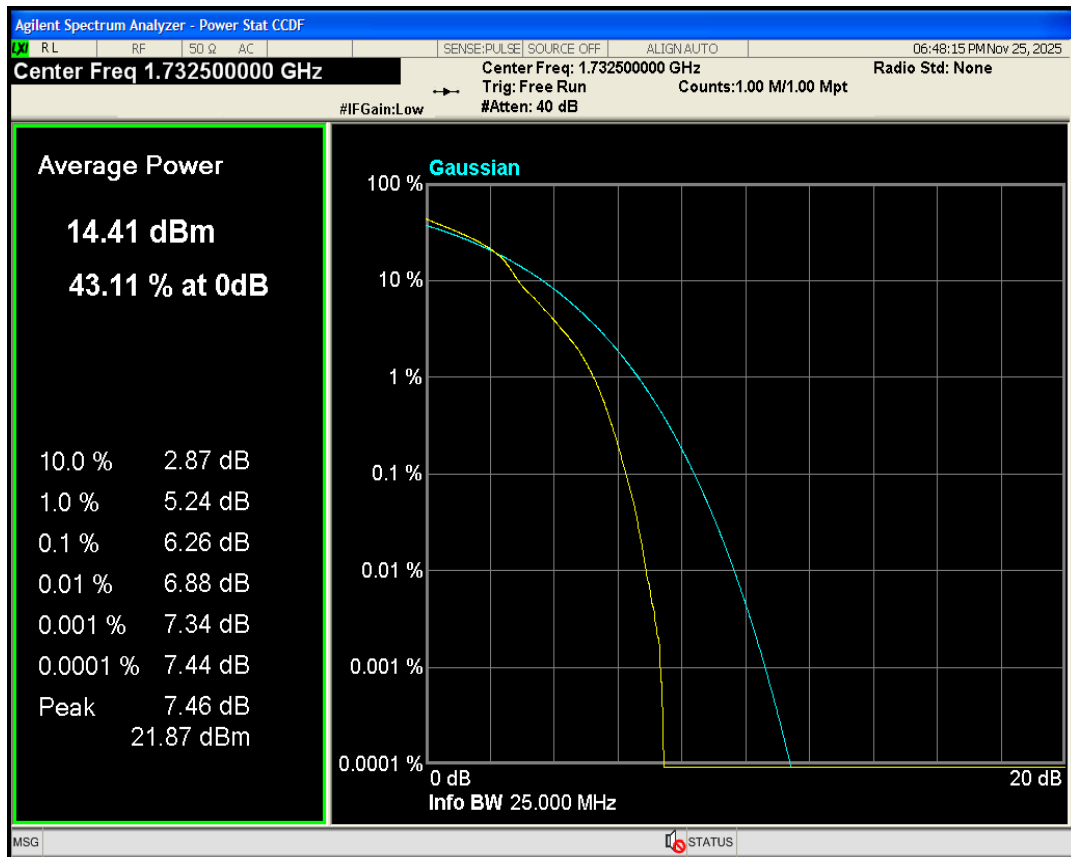
Band4 QAM16 BW=3MHz Channel=20175 RB Size=1 Position=#0



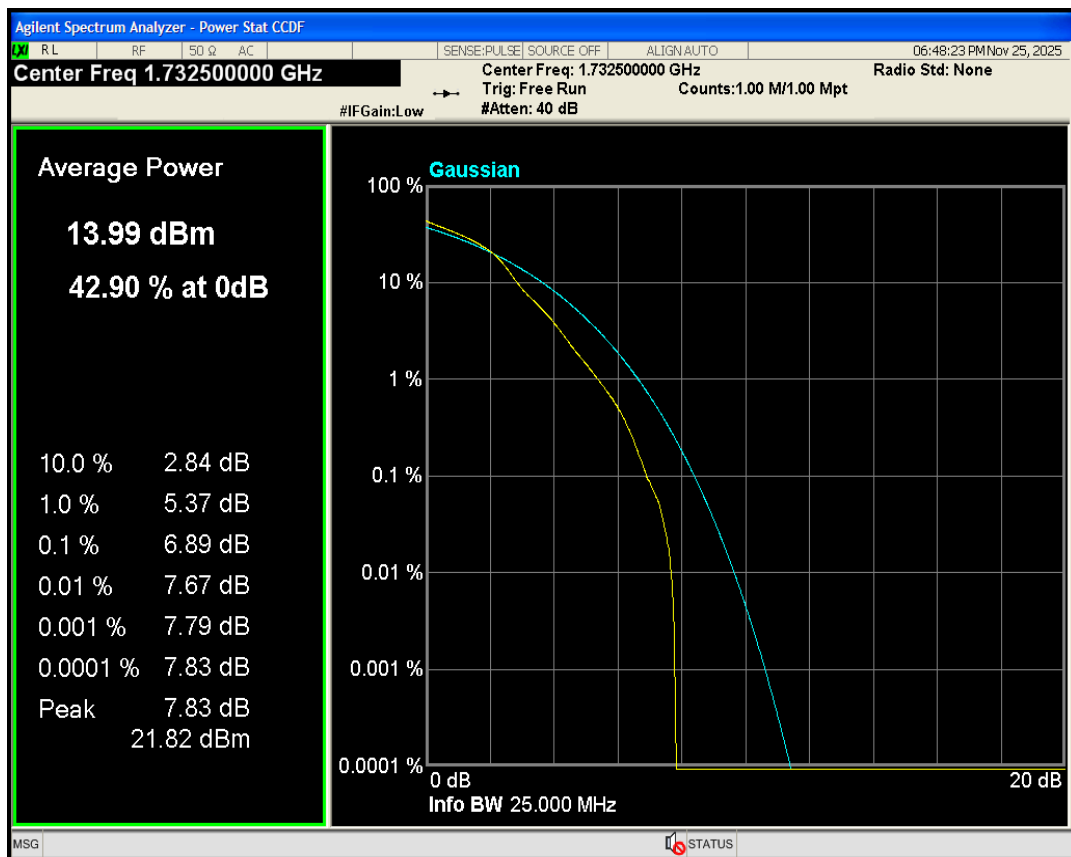
Band4 QPSK BW=5MHz Channel=20175 RB Size=1 Position=#0



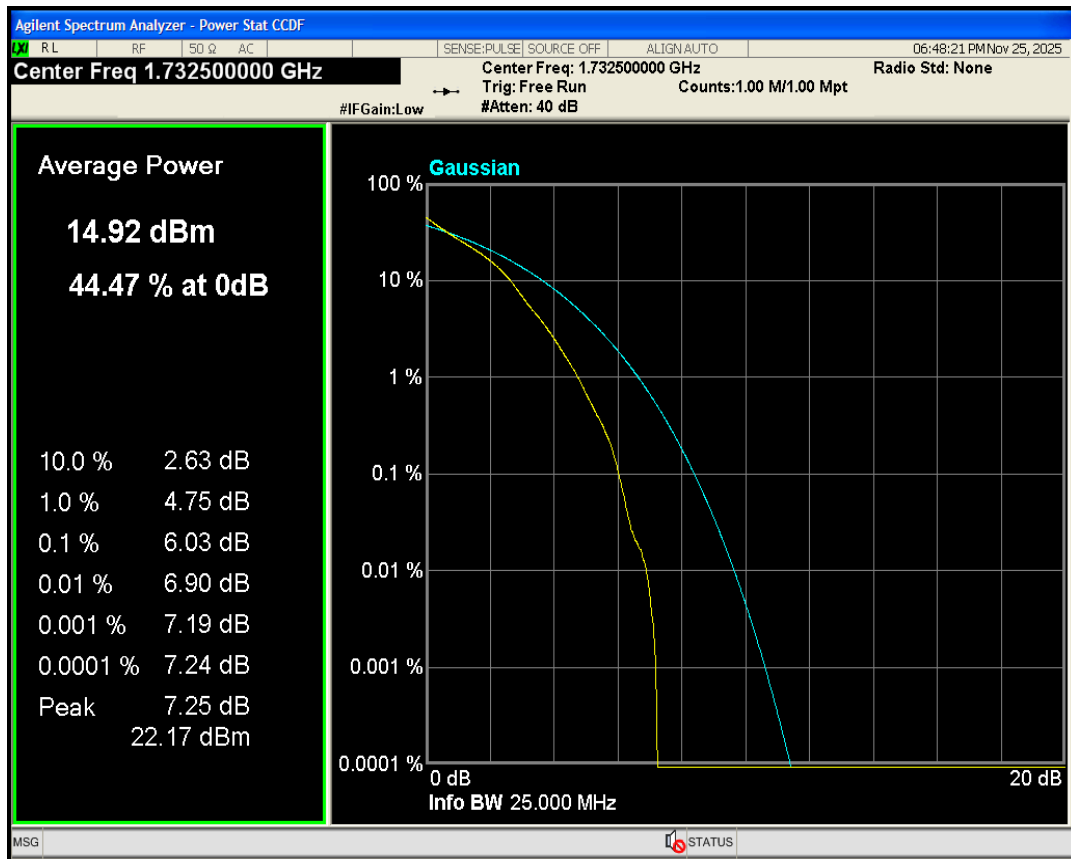
Band4 QAM16 BW=5MHz Channel=20175 RB Size=1 Position=#0



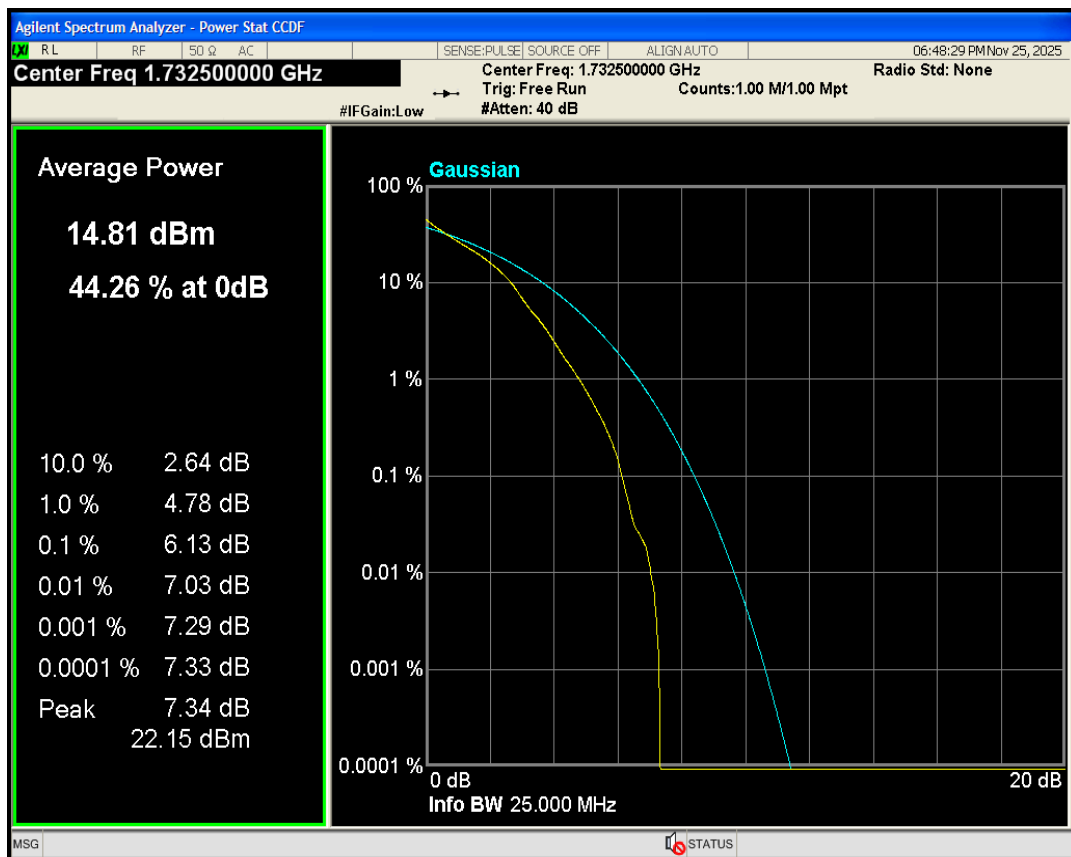
Band4 QAM16 BW=10MHz Channel=20175 RB Size=1 Position=#0



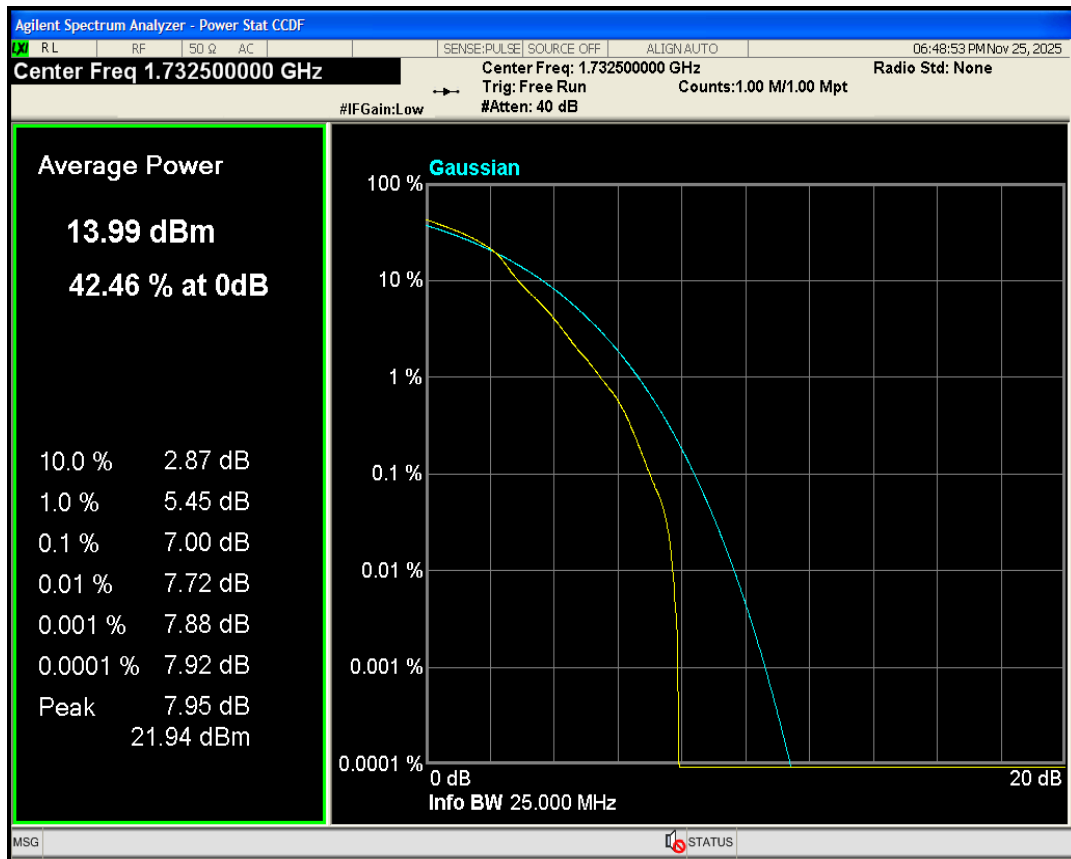
Band4 QPSK BW=10MHz Channel=20175 RB Size=1 Position=#0



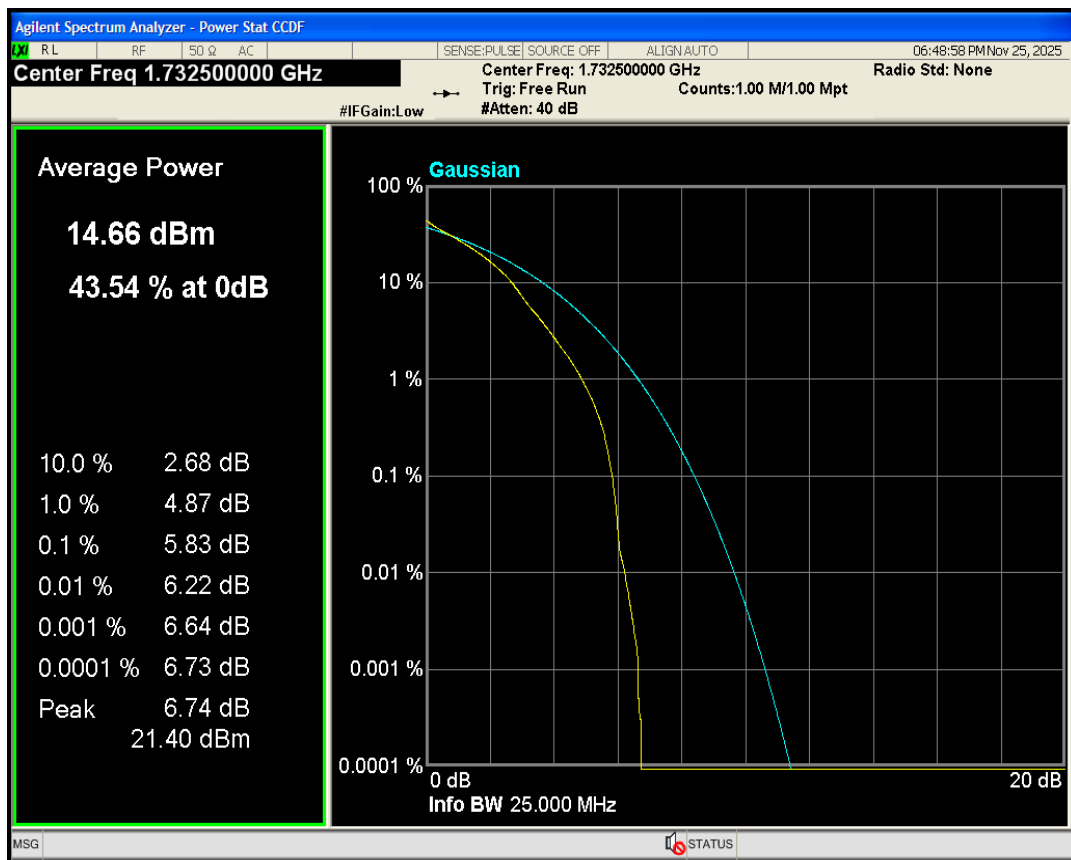
Band4 QPSK BW=15MHz Channel=20175 RB Size=1 Position=#0



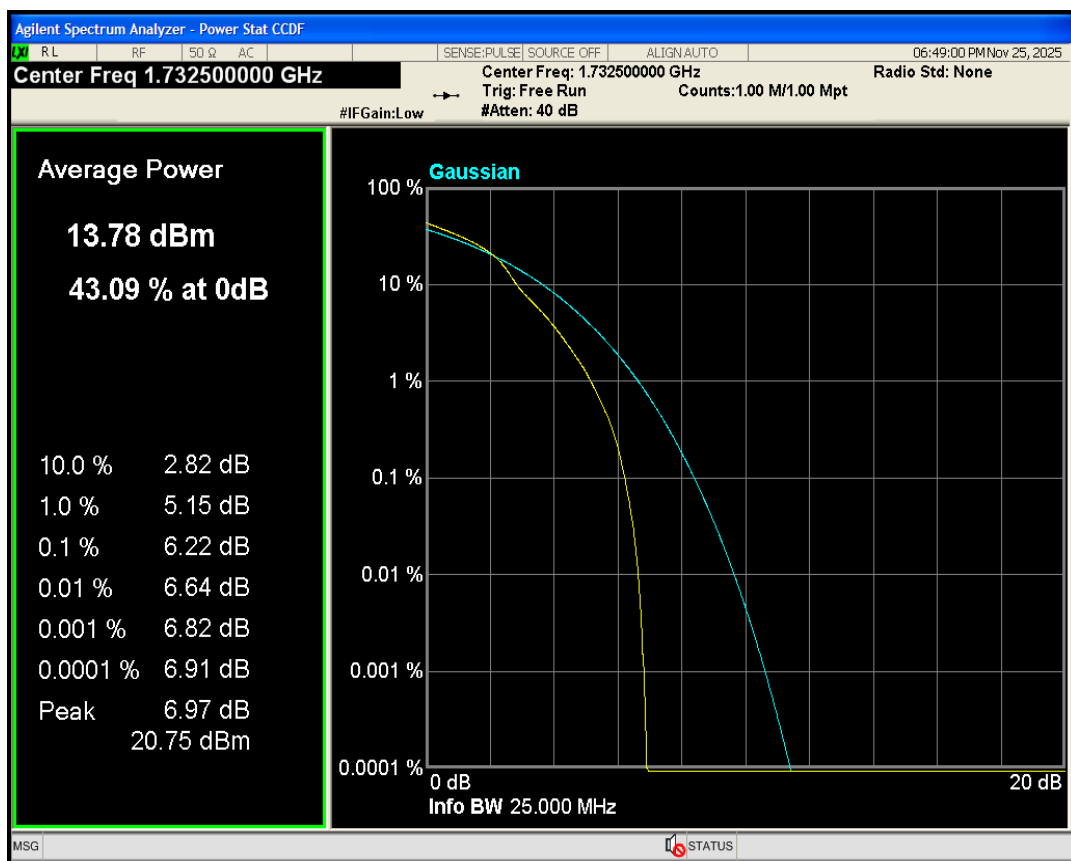
Band4 QAM16 BW=15MHz Channel=20175 RB Size=1 Position=#0



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



Band4 QAM16 BW=20MHz Channel=20175 RB Size=1 Position=#0

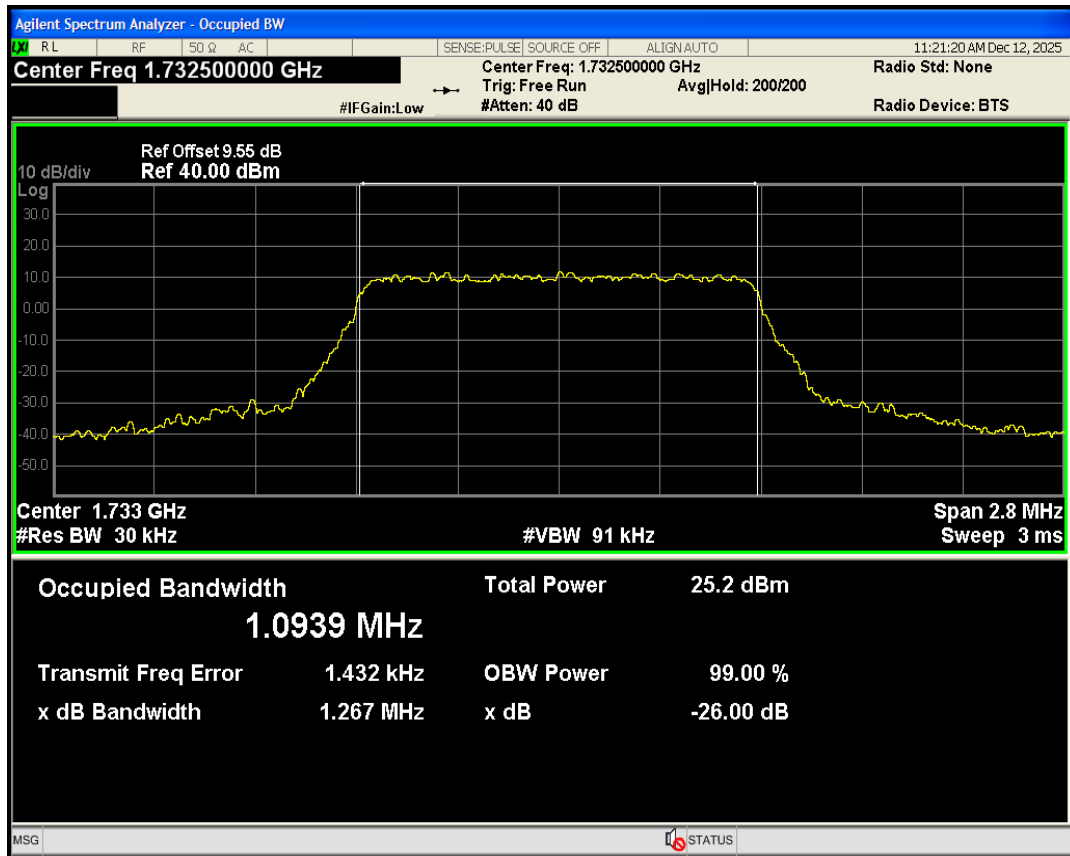


4. Occupied bandwidth

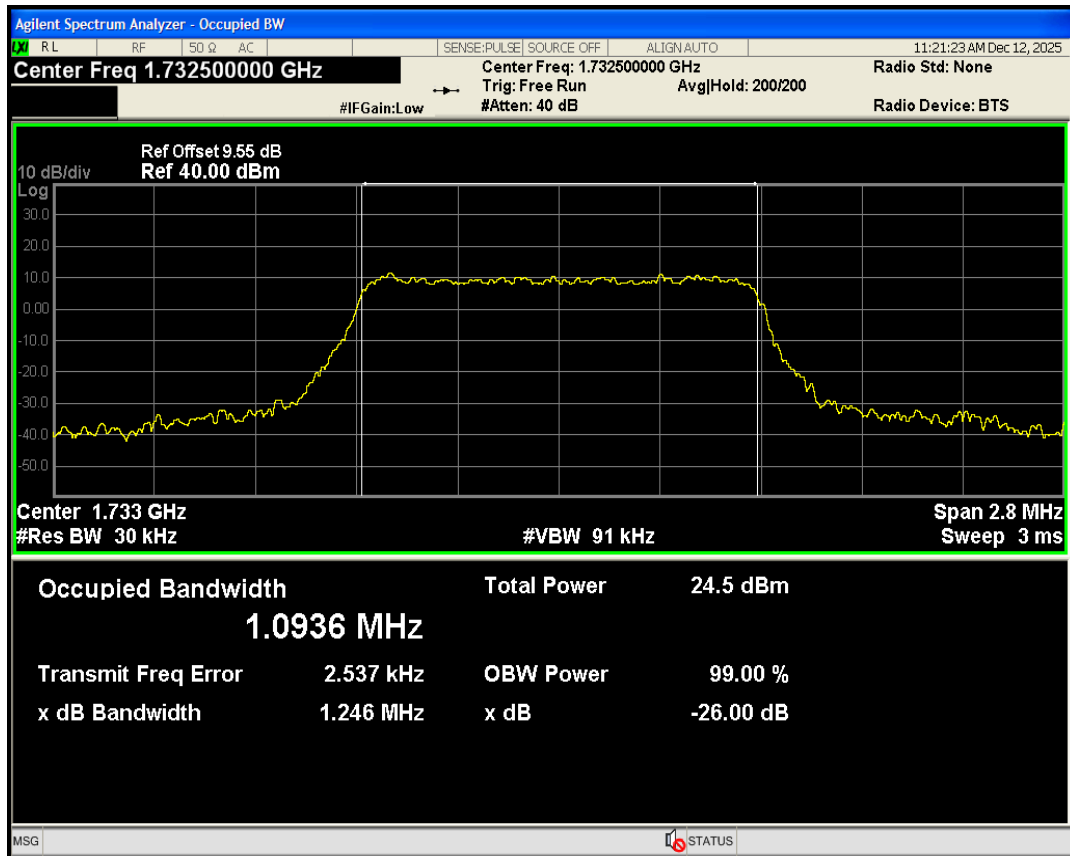
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
Band4	1.4	19957	6	#0	QPSK	1.103	1.321	PASS
Band4	1.4	19957	6	#0	QAM16	1.098	1.405	PASS
Band4	1.4	20175	6	#0	QPSK	1.094	1.267	PASS
Band4	1.4	20175	6	#0	QAM16	1.094	1.246	PASS
Band4	1.4	20393	6	#0	QPSK	1.090	1.257	PASS
Band4	1.4	20393	6	#0	QAM16	1.095	1.256	PASS
Band4	3	19965	15	#0	QPSK	2.706	2.949	PASS
Band4	3	19965	15	#0	QAM16	2.696	2.978	PASS
Band4	3	20175	15	#0	QPSK	2.708	2.942	PASS
Band4	3	20175	15	#0	QAM16	2.691	2.950	PASS
Band4	3	20385	15	#0	QPSK	2.697	2.958	PASS
Band4	3	20385	15	#0	QAM16	2.697	2.934	PASS
Band4	5	19975	25	#0	QPSK	4.508	4.972	PASS
Band4	5	19975	25	#0	QAM16	4.502	4.954	PASS
Band4	5	20175	25	#0	QPSK	4.507	4.895	PASS
Band4	5	20175	25	#0	QAM16	4.517	4.929	PASS
Band4	5	20375	25	#0	QPSK	4.515	4.877	PASS
Band4	5	20375	25	#0	QAM16	4.513	4.945	PASS
Band4	10	20000	50	#0	QPSK	8.940	9.650	PASS
Band4	10	20000	27	#0	QAM16	4.952	5.512	PASS
Band4	10	20175	50	#0	QPSK	9.007	9.706	PASS
Band4	10	20175	27	#0	QAM16	4.946	5.620	PASS
Band4	10	20350	50	#0	QPSK	8.988	9.679	PASS
Band4	10	20350	27	#0	QAM16	4.994	5.644	PASS
Band4	15	20025	75	#0	QPSK	13.474	14.564	PASS
Band4	15	20025	27	#0	QAM16	5.046	5.779	PASS
Band4	15	20175	75	#0	QPSK	13.420	14.436	PASS
Band4	15	20175	27	#0	QAM16	5.064	5.977	PASS
Band4	15	20325	75	#0	QPSK	13.461	14.407	PASS
Band4	15	20325	27	#0	QAM16	5.102	6.249	PASS
Band4	20	20050	100	#0	QPSK	18.015	19.218	PASS
Band4	20	20050	27	#0	QAM16	5.193	6.077	PASS
Band4	20	20175	100	#0	QPSK	17.930	19.107	PASS
Band4	20	20175	27	#0	QAM16	5.200	6.024	PASS
Band4	20	20300	100	#0	QPSK	17.824	19.020	PASS
Band4	20	20300	27	#0	QAM16	5.256	6.861	PASS

Report

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

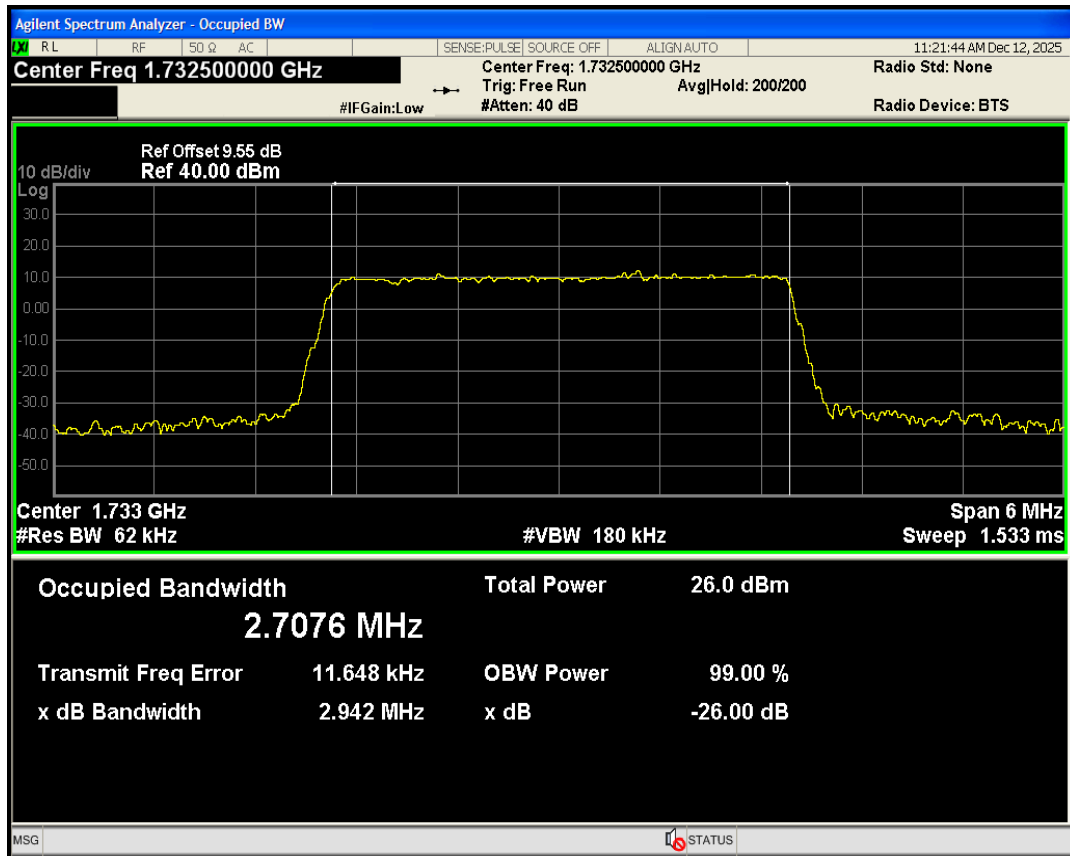


Band4 QAM16 BW=1.4MHz Channel=20175 RB Size=6 Position=#0

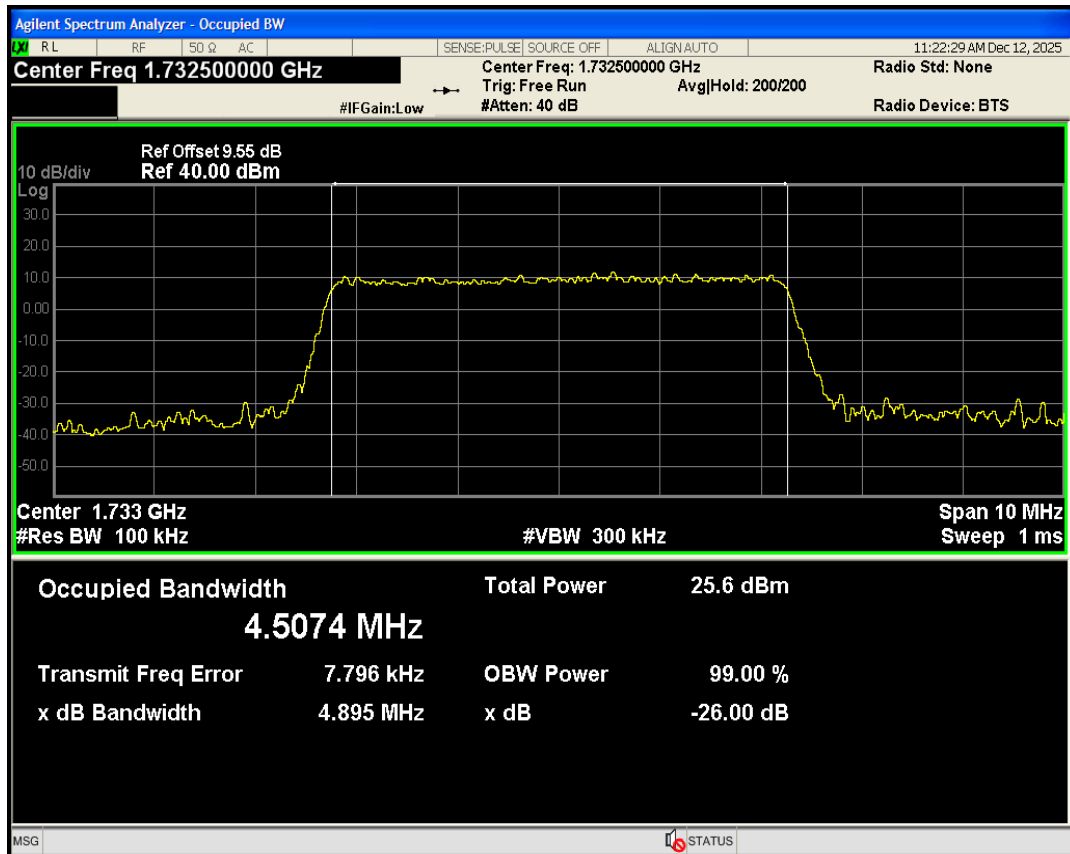


Report

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

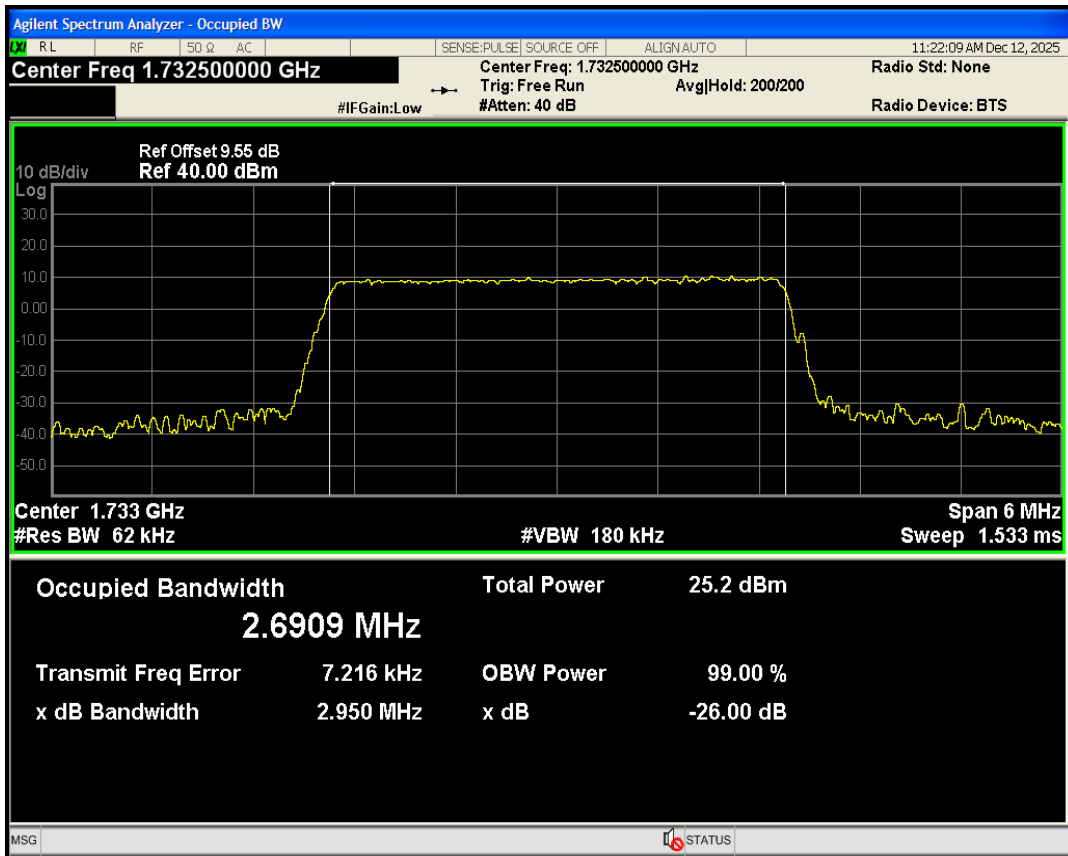


Band4 QPSK BW=5MHz Channel=20175 RB Size=25 Position=#0

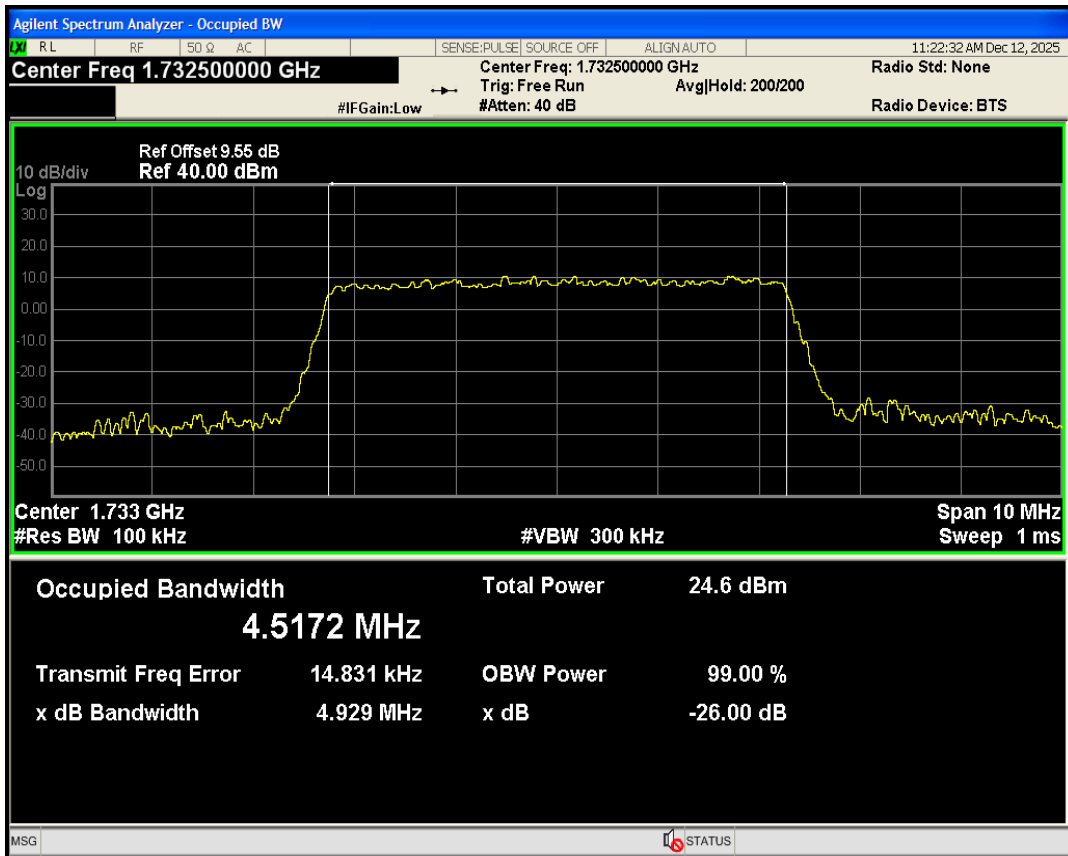


Report

Band4 QAM16 BW=3MHz Channel=20175 RB Size=15 Position=#0

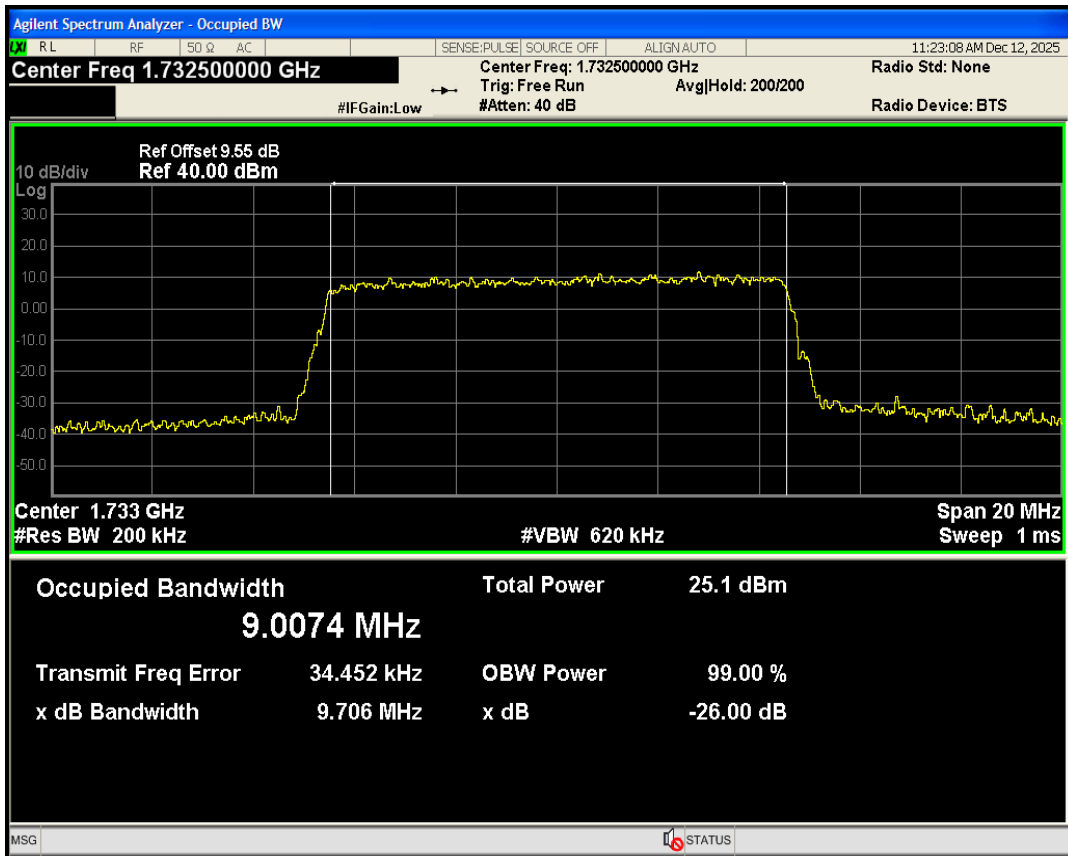


Band4 QAM16 BW=5MHz Channel=20175 RB Size=25 Position=#0

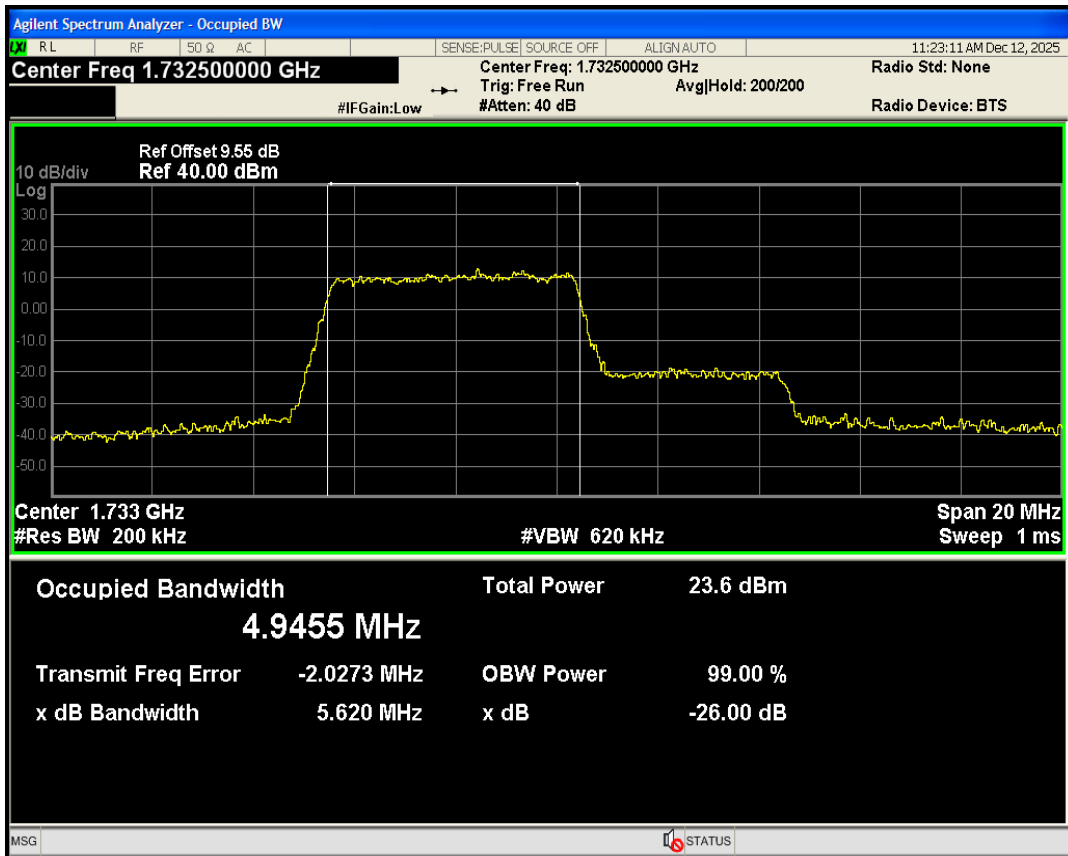


Report

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

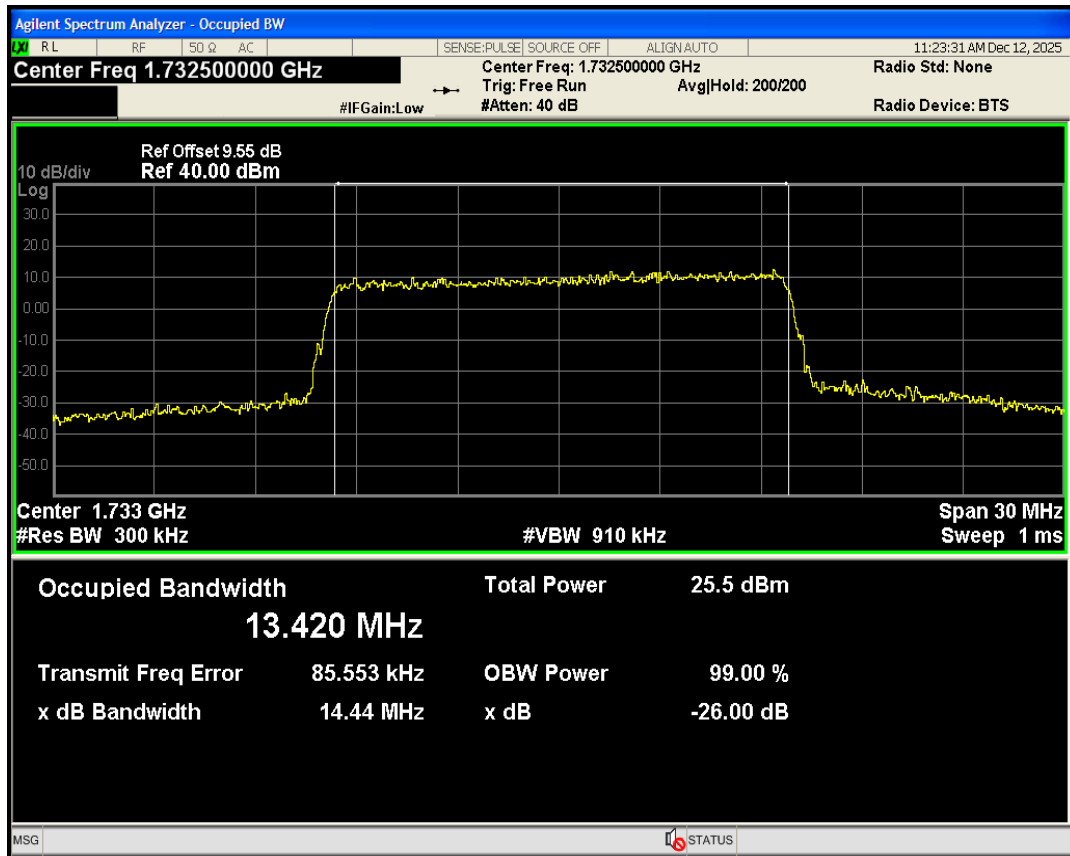


Band4 QAM16 BW=10MHz Channel=20175 RB Size=27 Position=#0

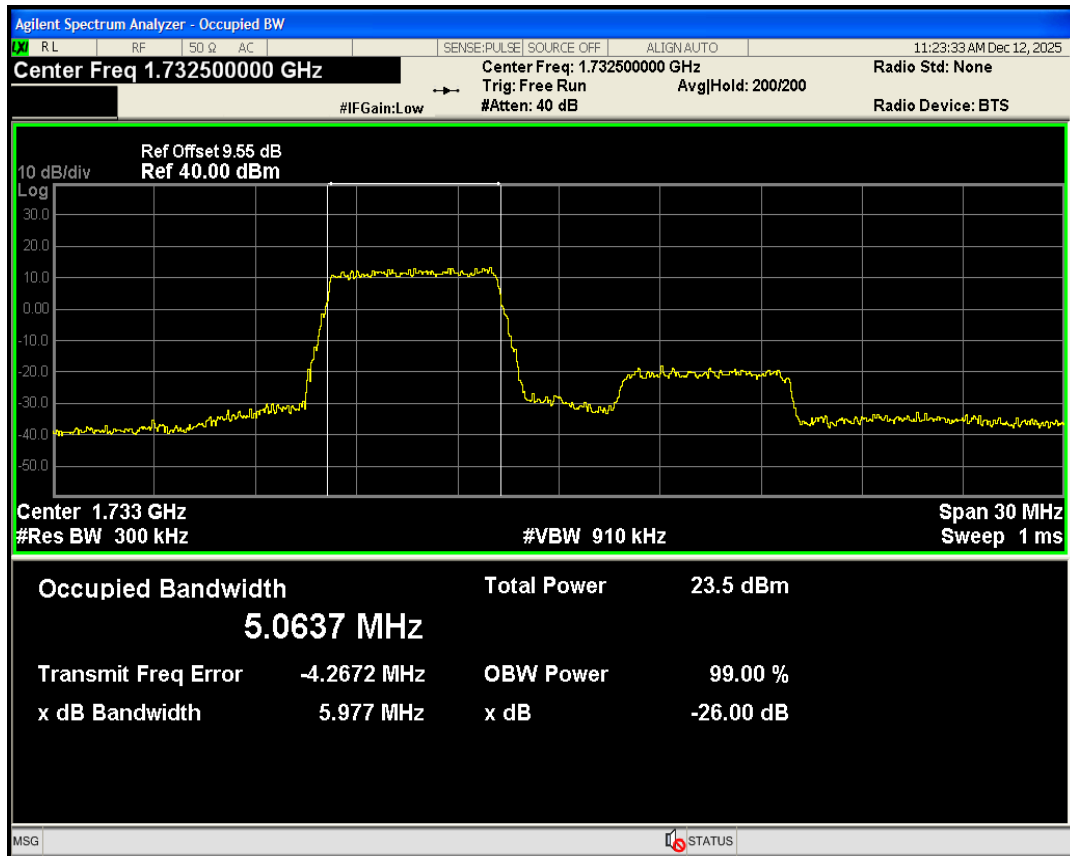


Report

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

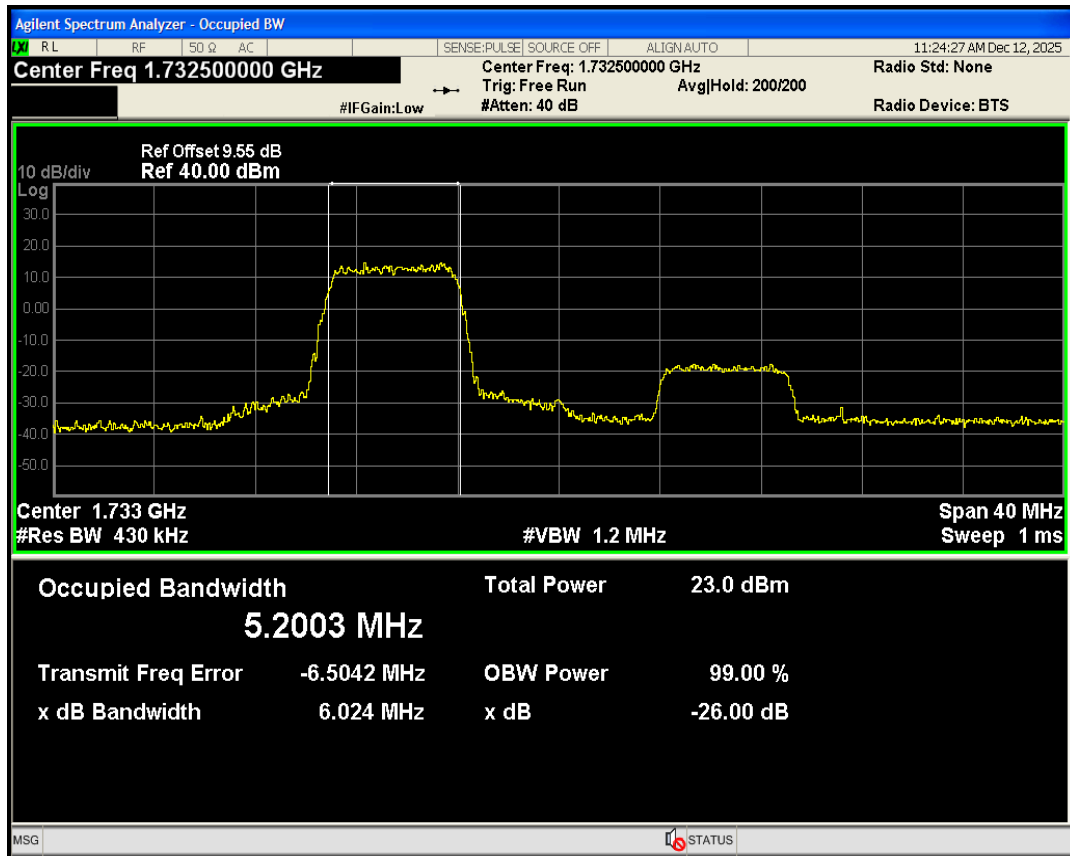


Band4 QAM16 BW=15MHz Channel=20175 RB Size=27 Position=#0

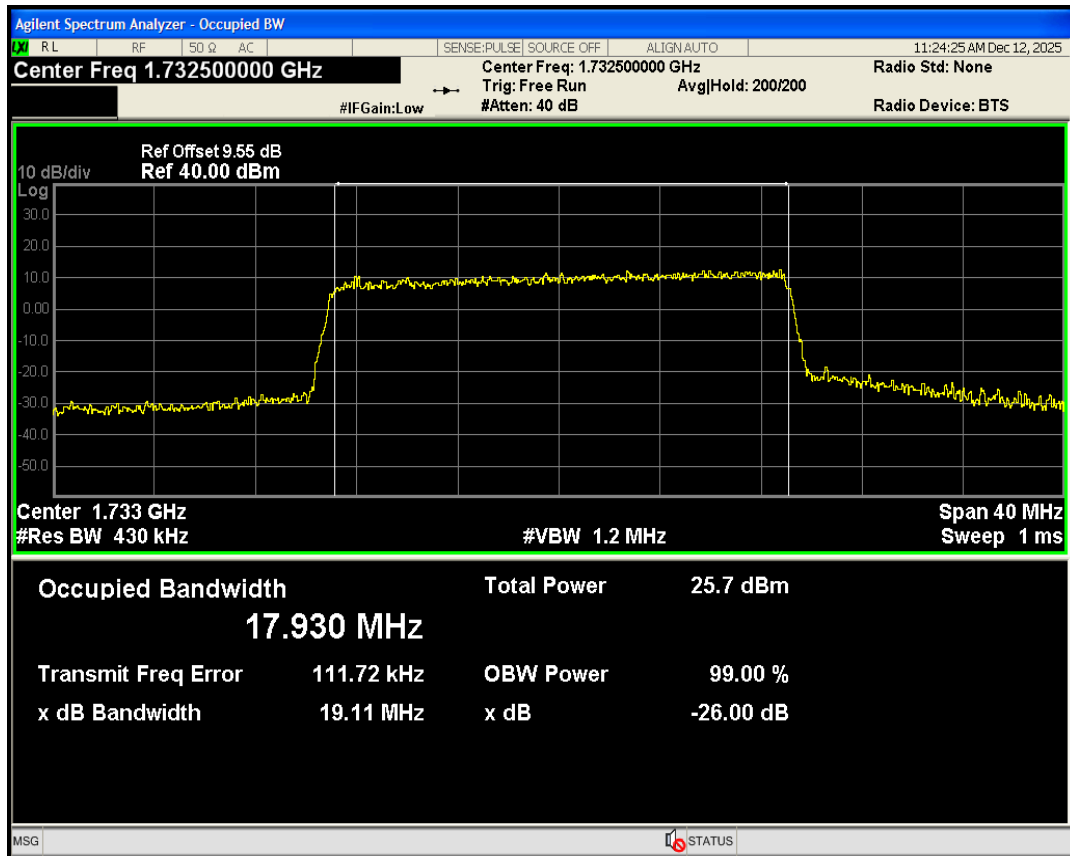


Report

Band4 QAM16 BW=20MHz Channel=20175 RB Size=27 Position=#0

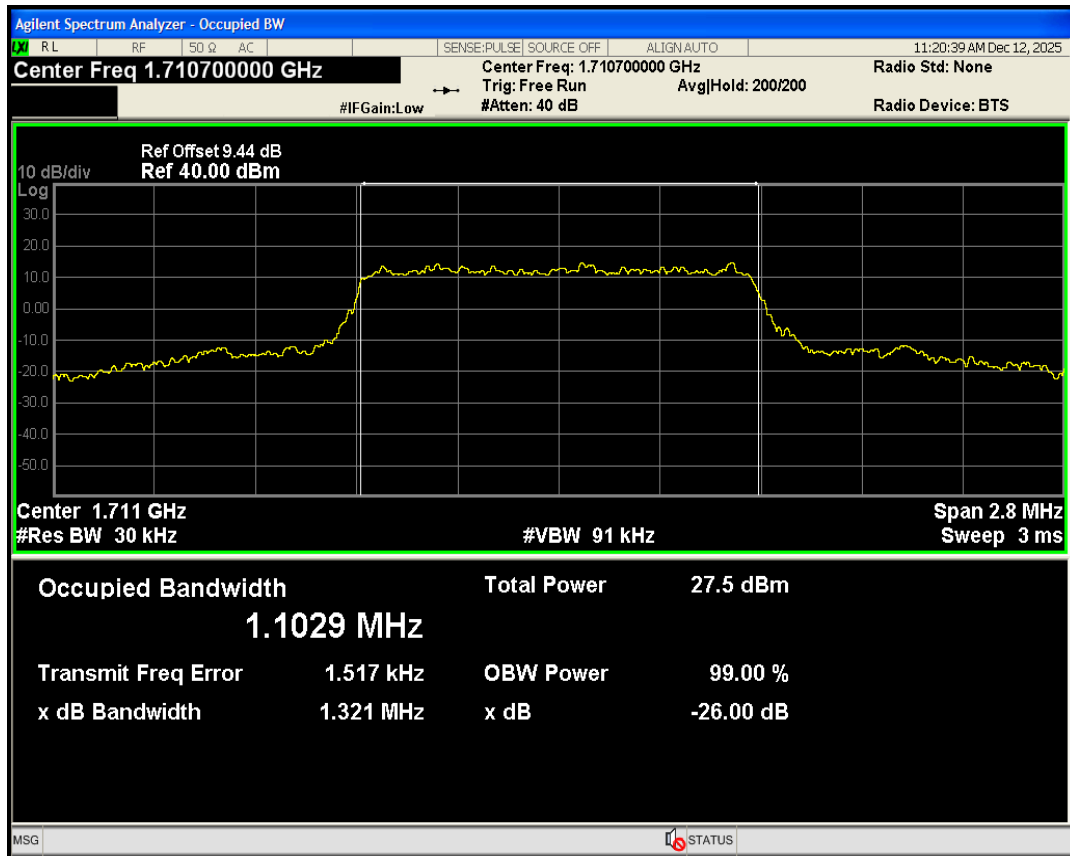


Band4 QPSK BW=20MHz Channel=20175 RB Size=100 Position=#0

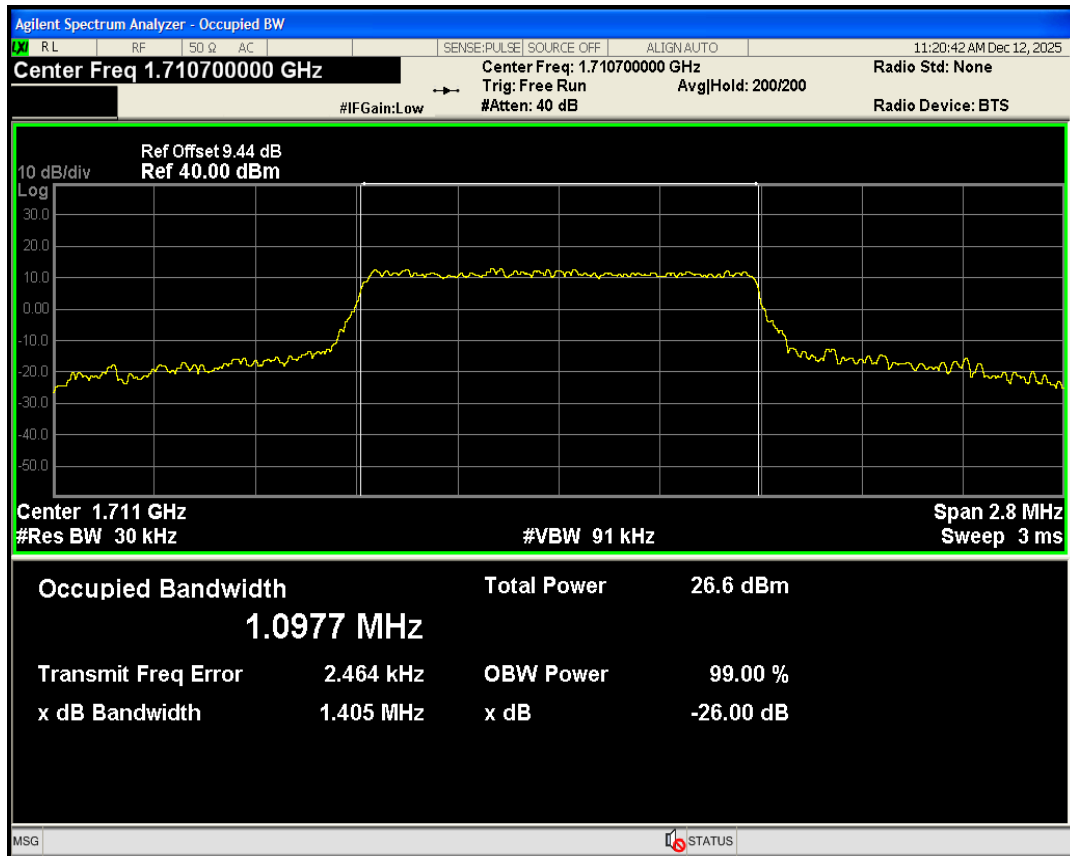


Report

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

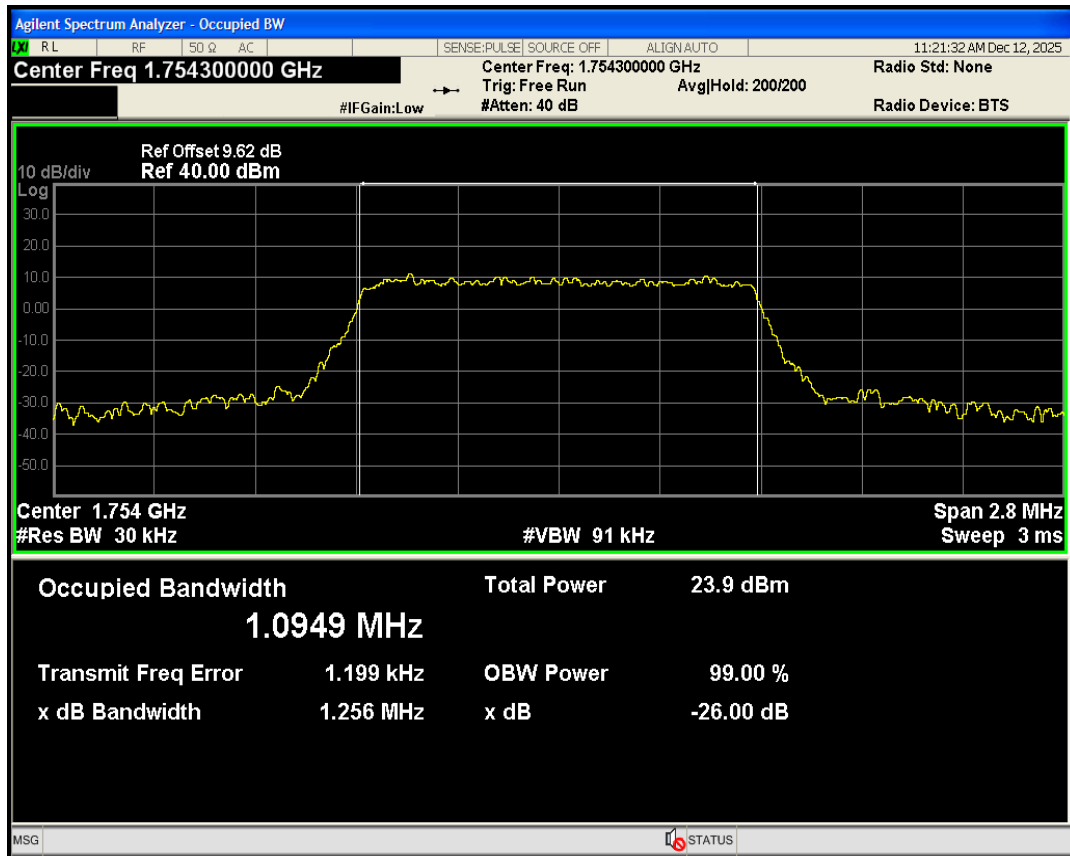


Band4 QAM16 BW=1.4MHz Channel=19957 RB Size=6 Position=#0

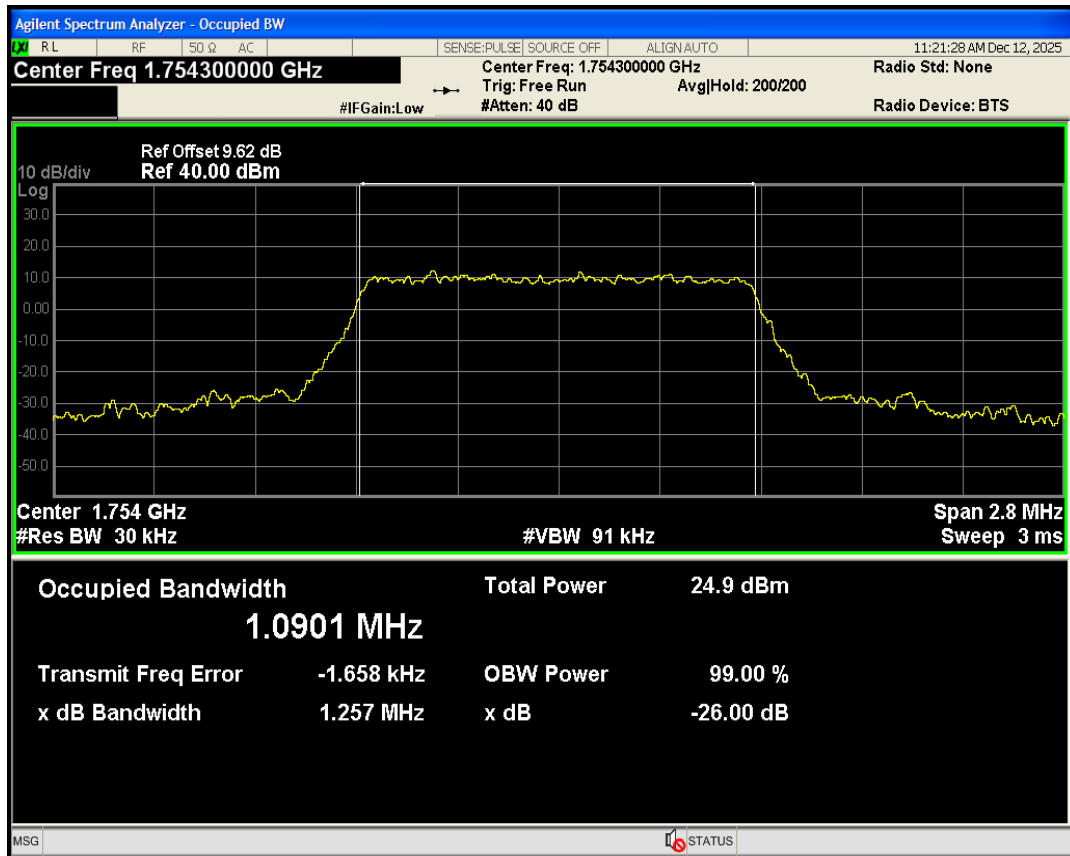


Report

Band4 QAM16 BW=1.4MHz Channel=20393 RB Size=6 Position=#0

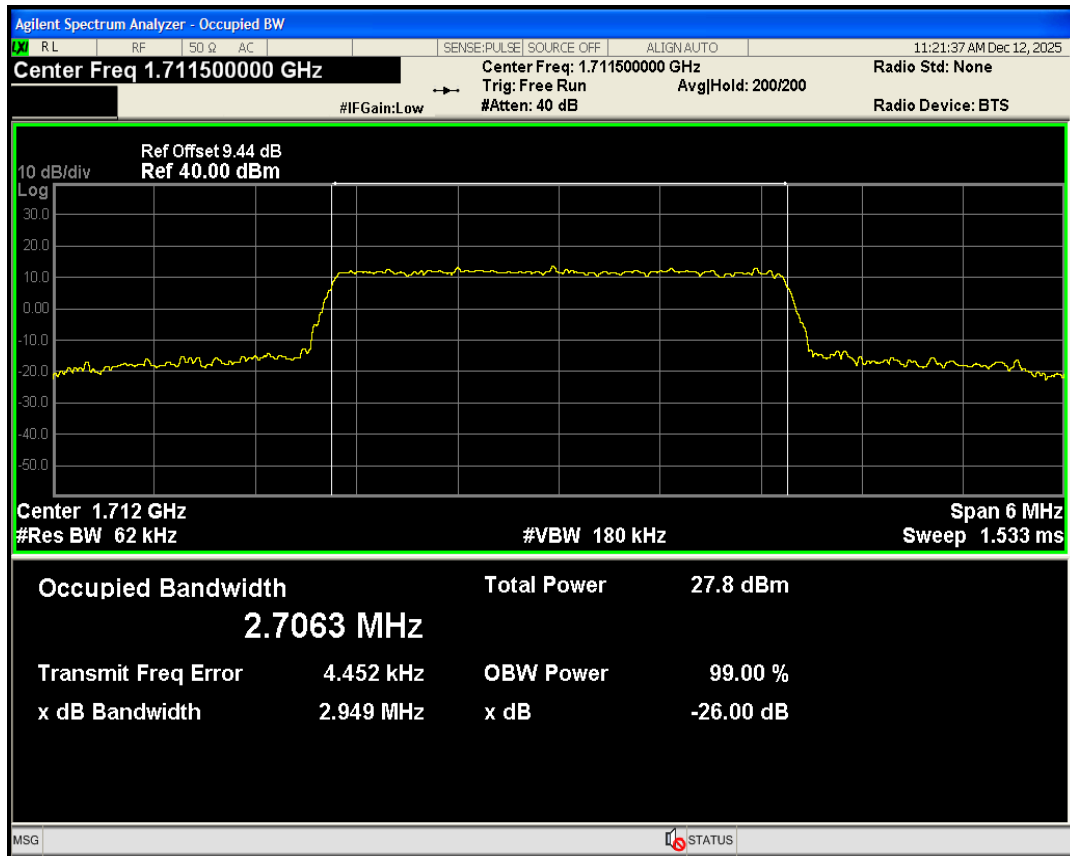


Band4 QPSK BW=1.4MHz Channel=20393 RB Size=6 Position=#0

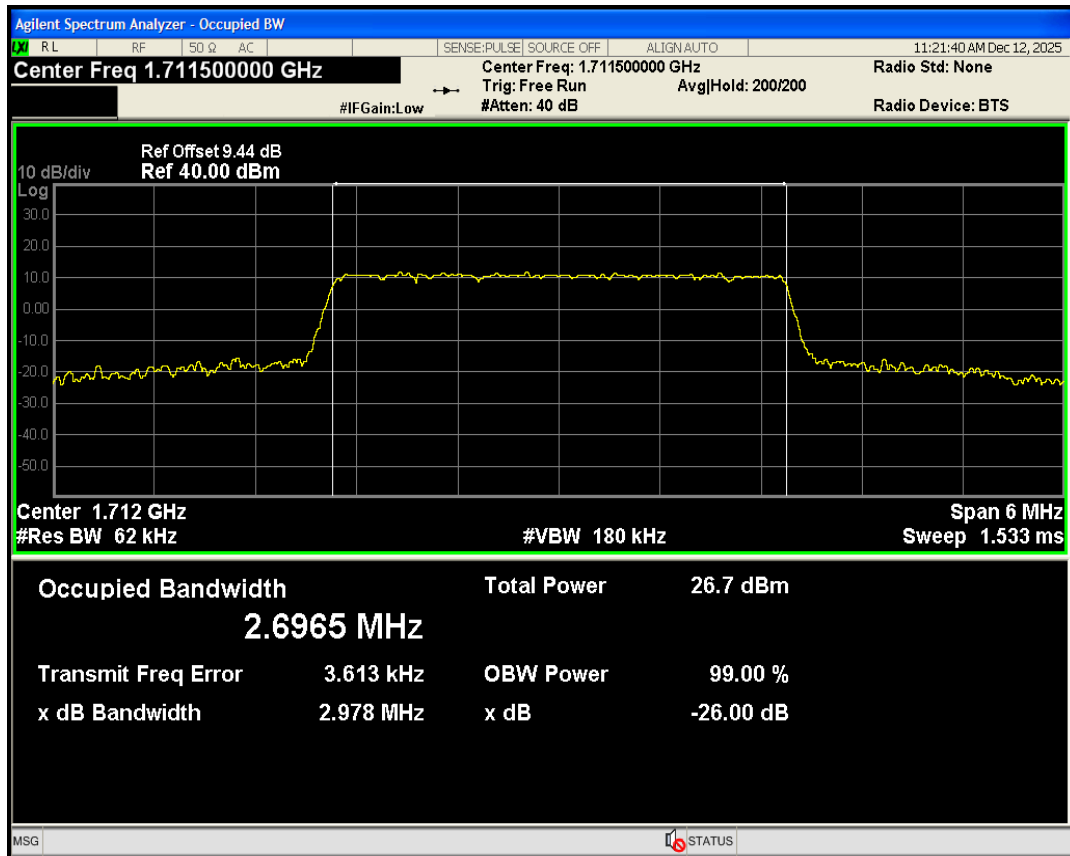


Report

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

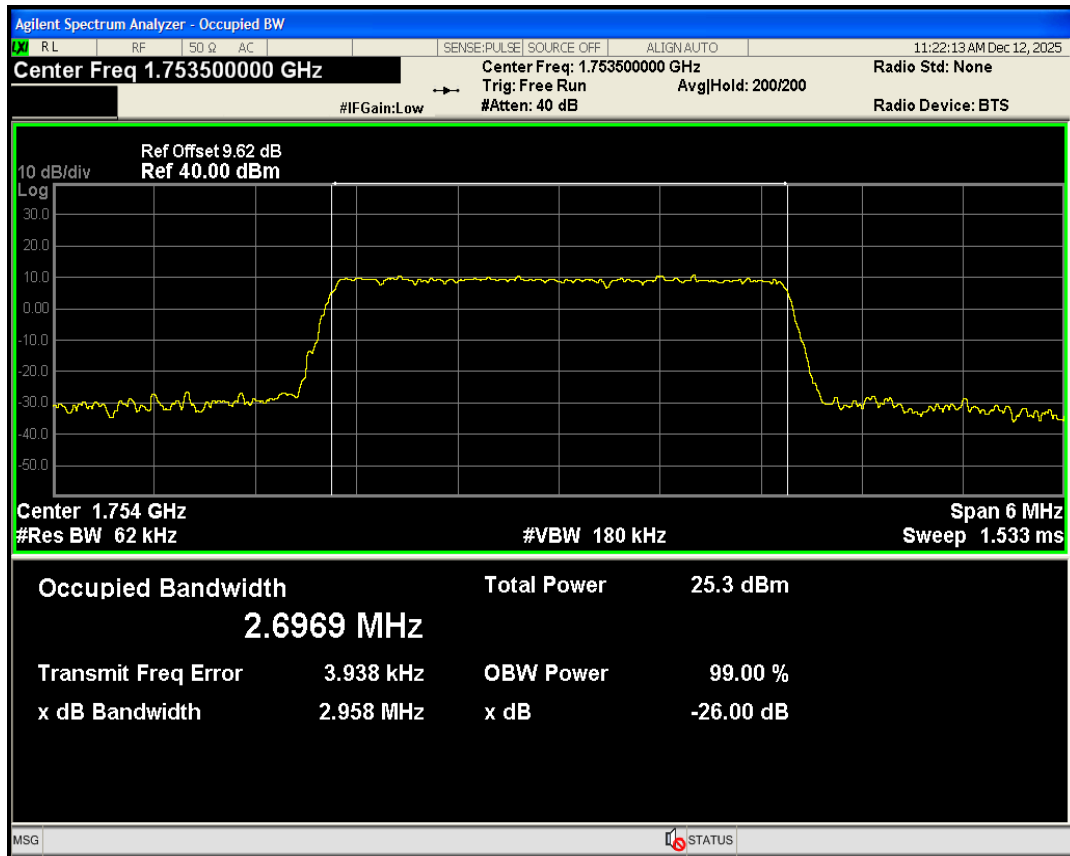


Band4 QAM16 BW=3MHz Channel=19965 RB Size=15 Position=#0

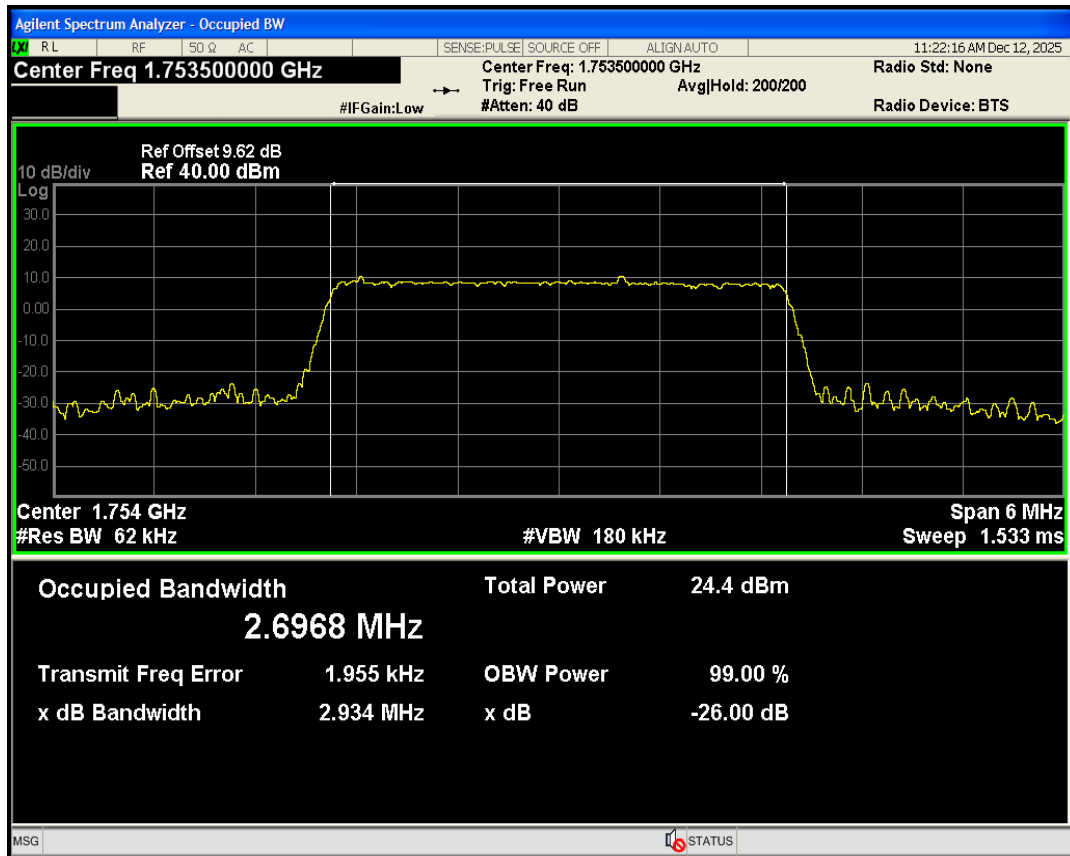


Report

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

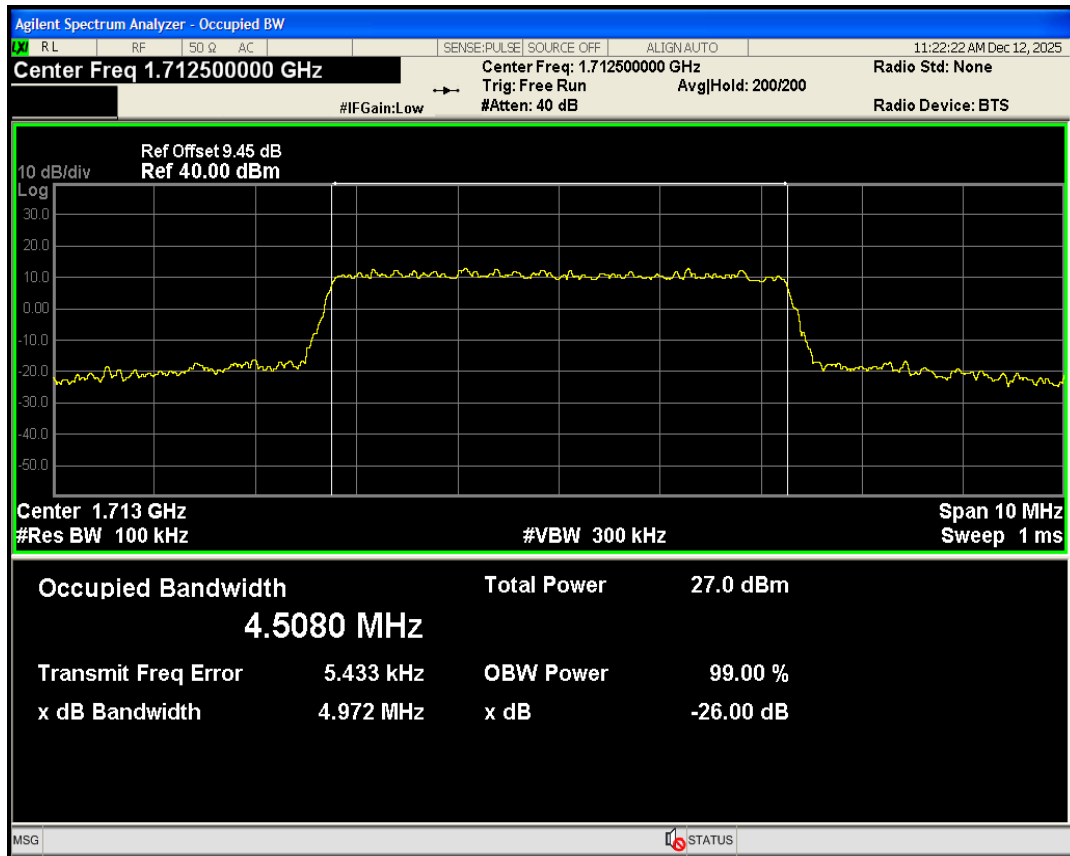


Band4 QAM16 BW=3MHz Channel=20385 RB Size=15 Position=#0

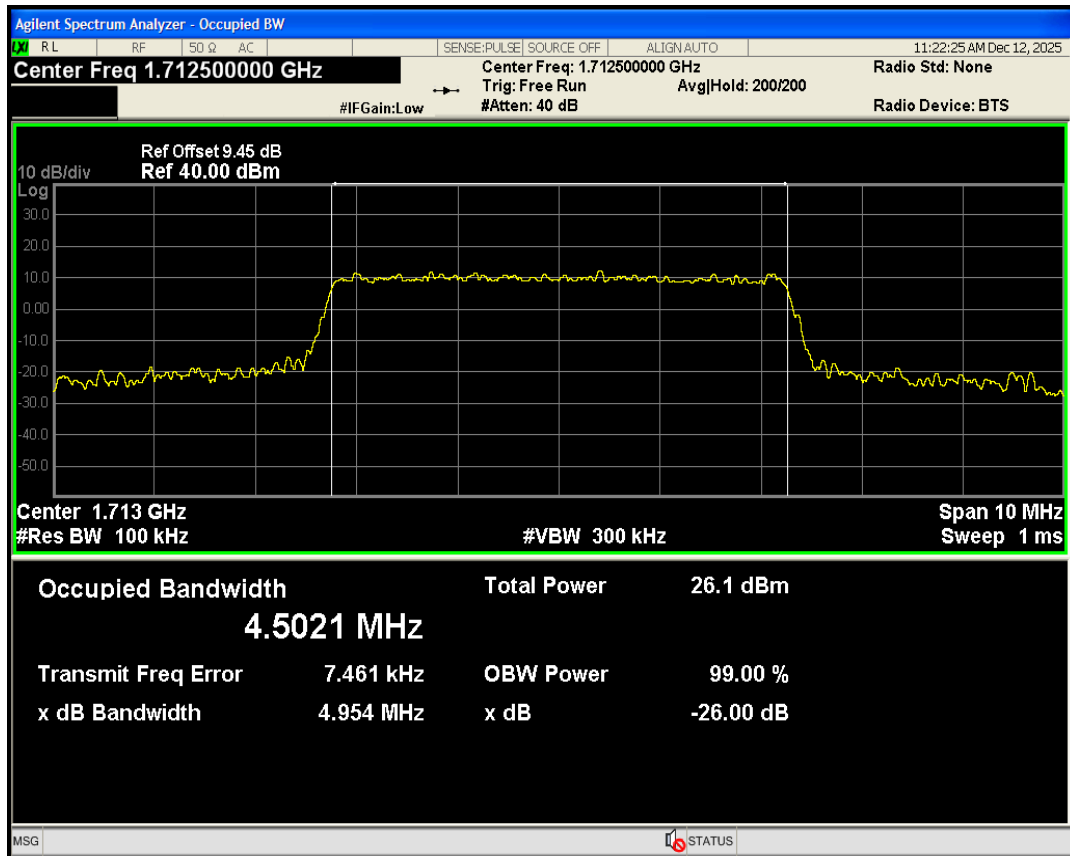


Report

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

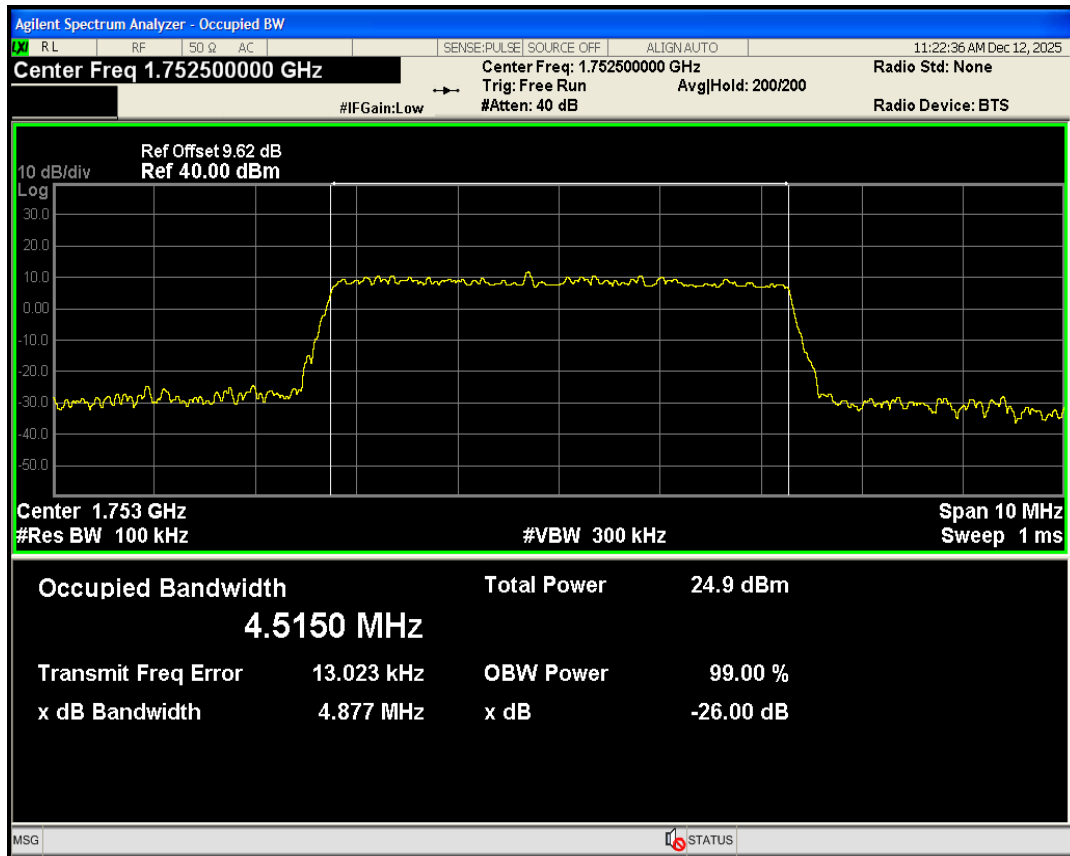


Band4 QAM16 BW=5MHz Channel=19975 RB Size=25 Position=#0

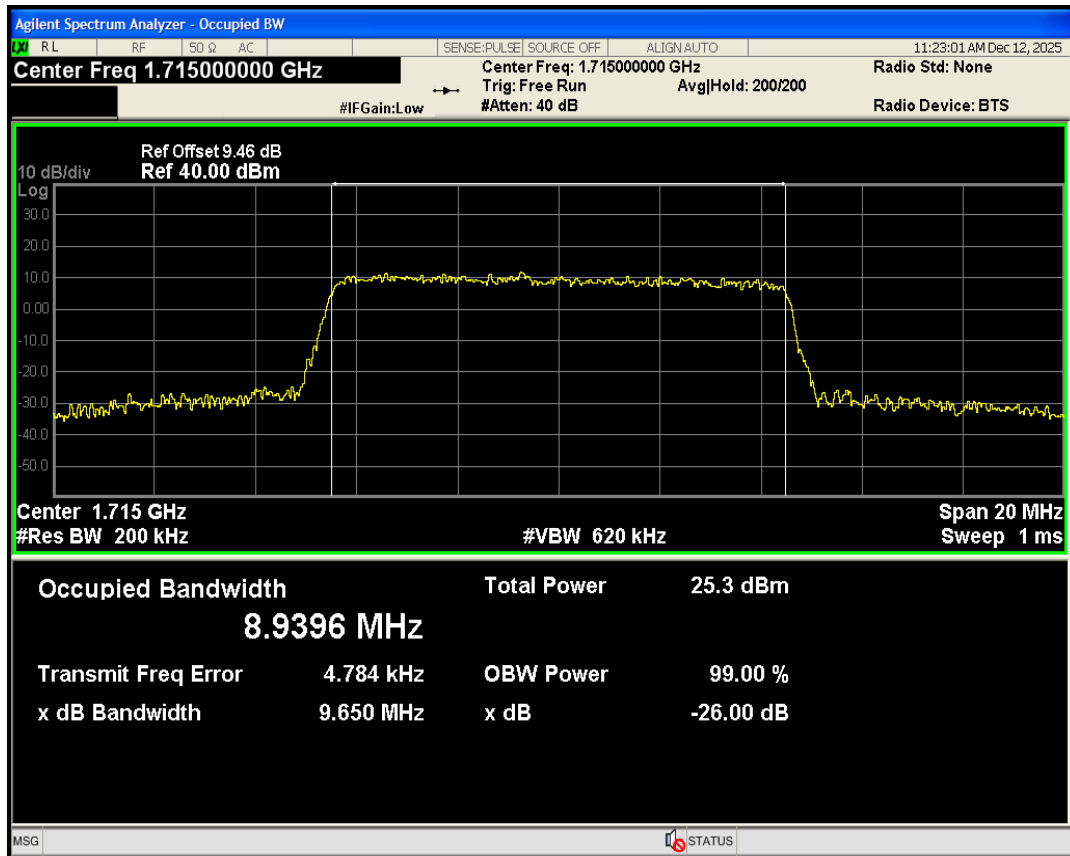


Report

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

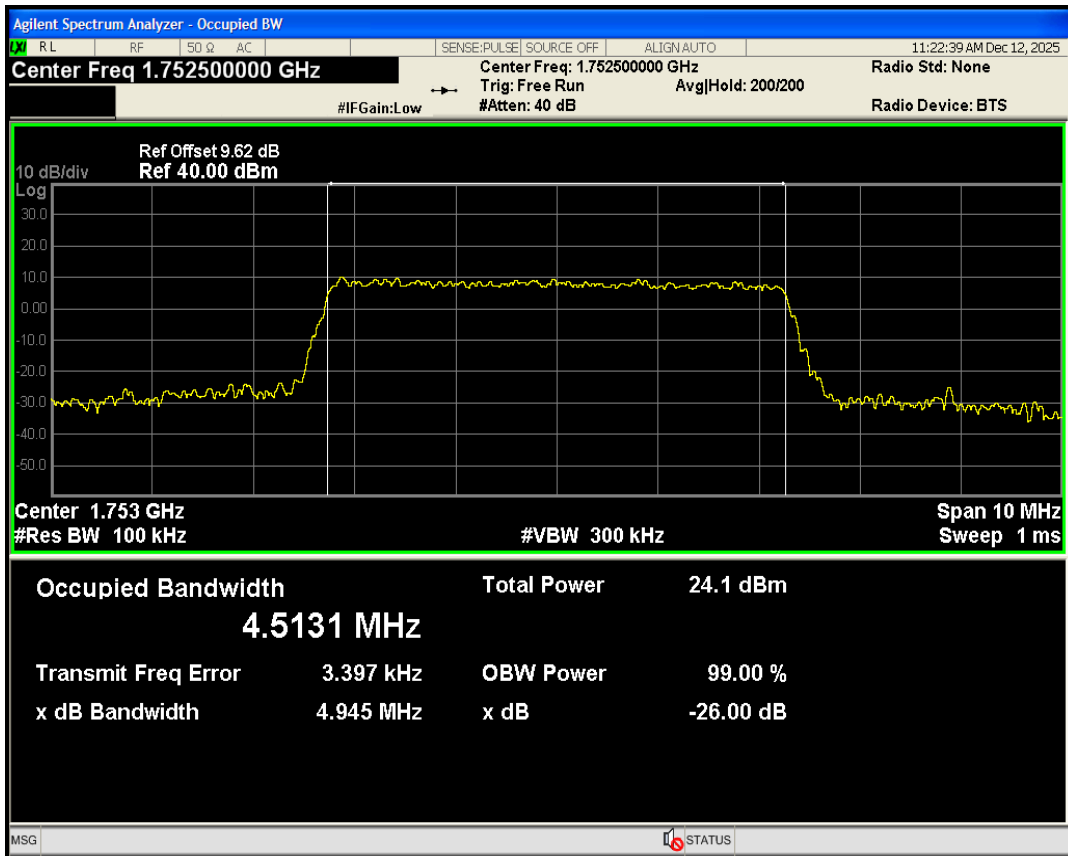


Band4 QPSK BW=10MHz Channel=20000 RB Size=50 Position=#0

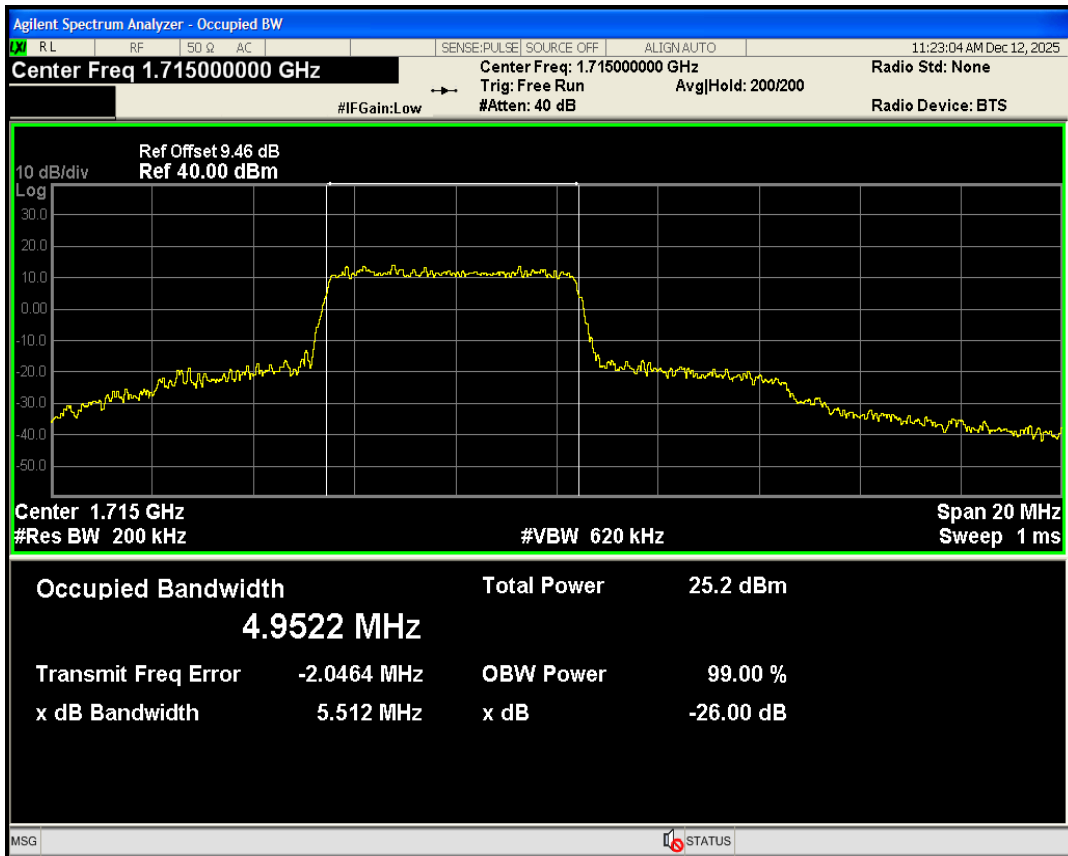


Report

Band4 QAM16 BW=5MHz Channel=20375 RB Size=25 Position=#0

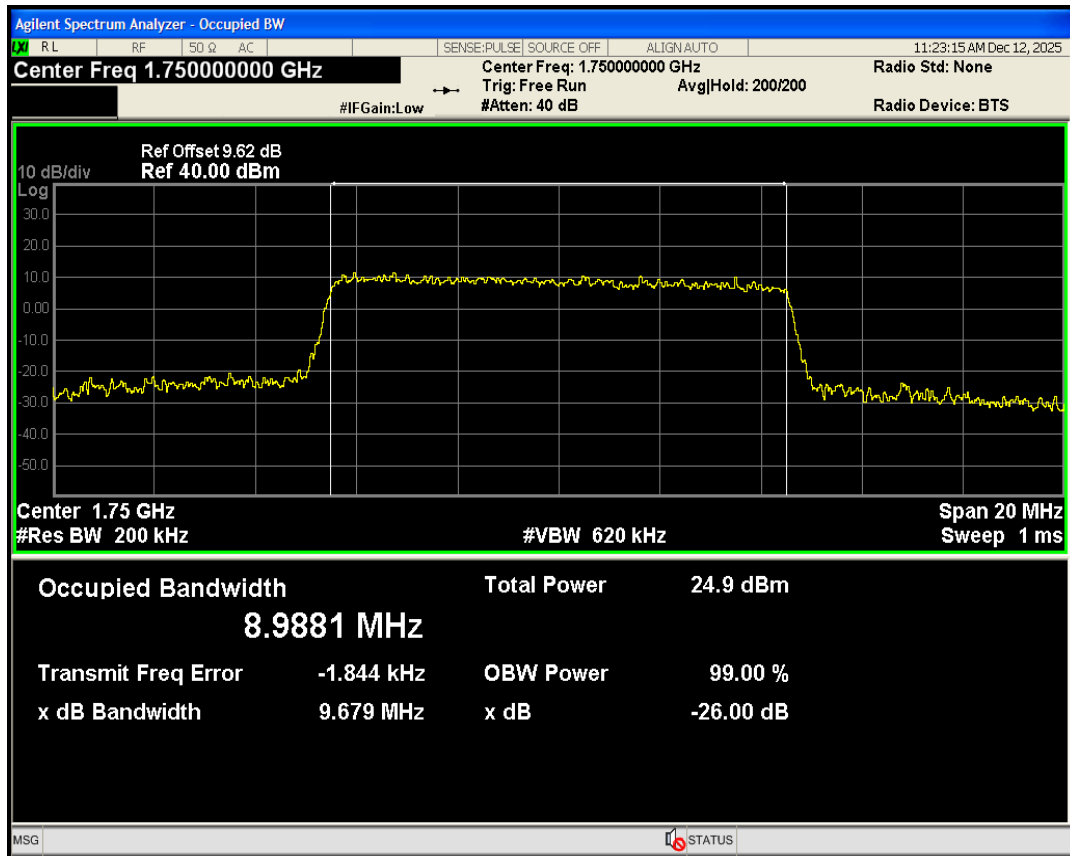


Band4 QAM16 BW=10MHz Channel=20000 RB Size=27 Position=#0

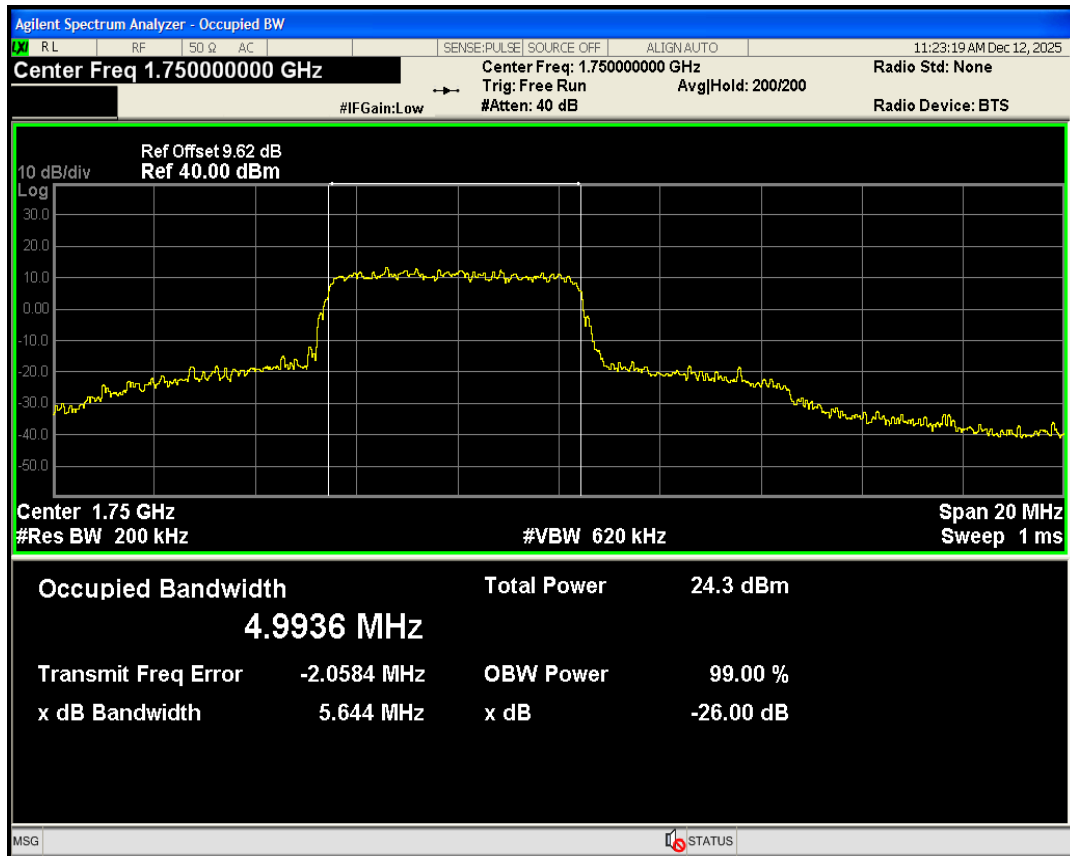


Report

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

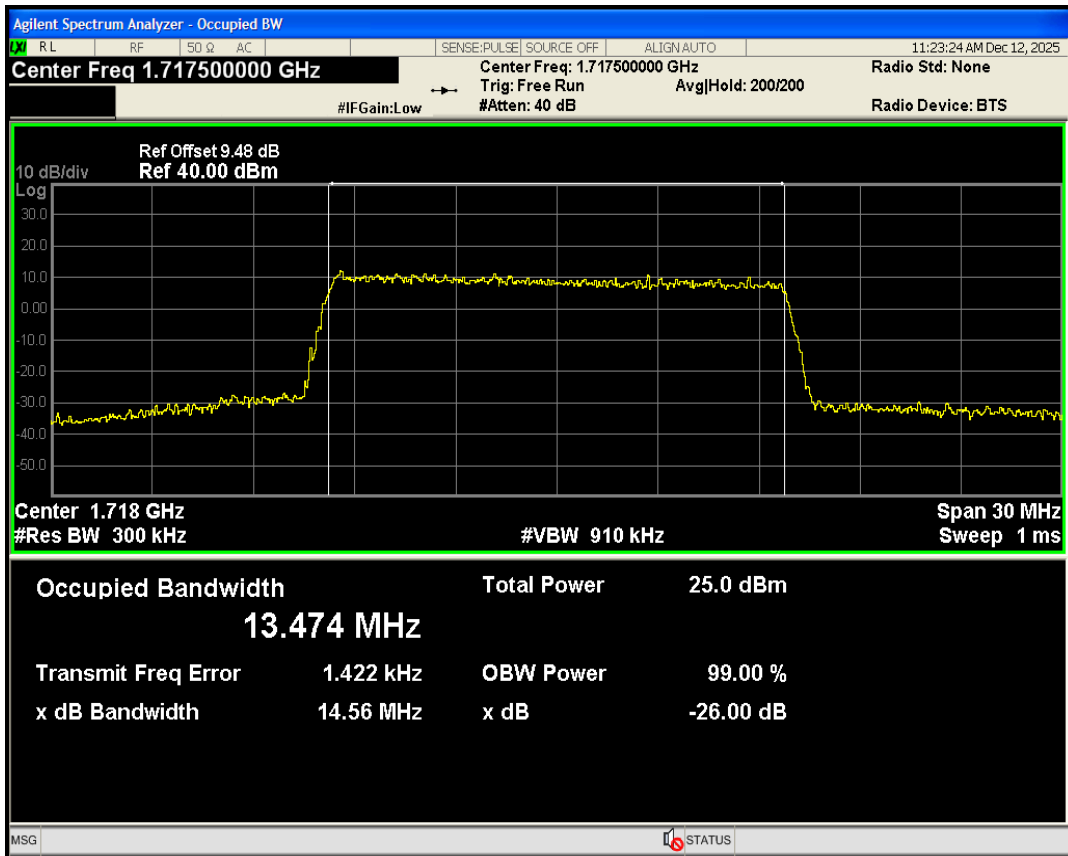


Band4 QAM16 BW=10MHz Channel=20350 RB Size=27 Position=#0

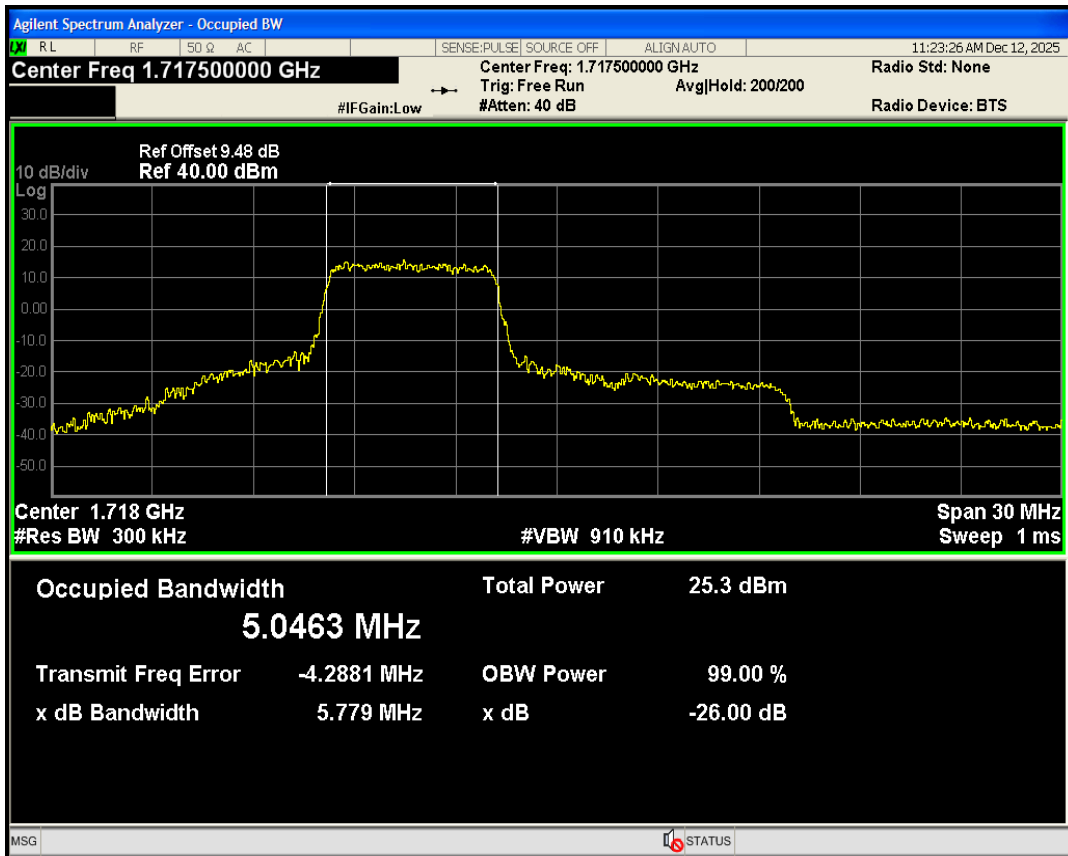


Report

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

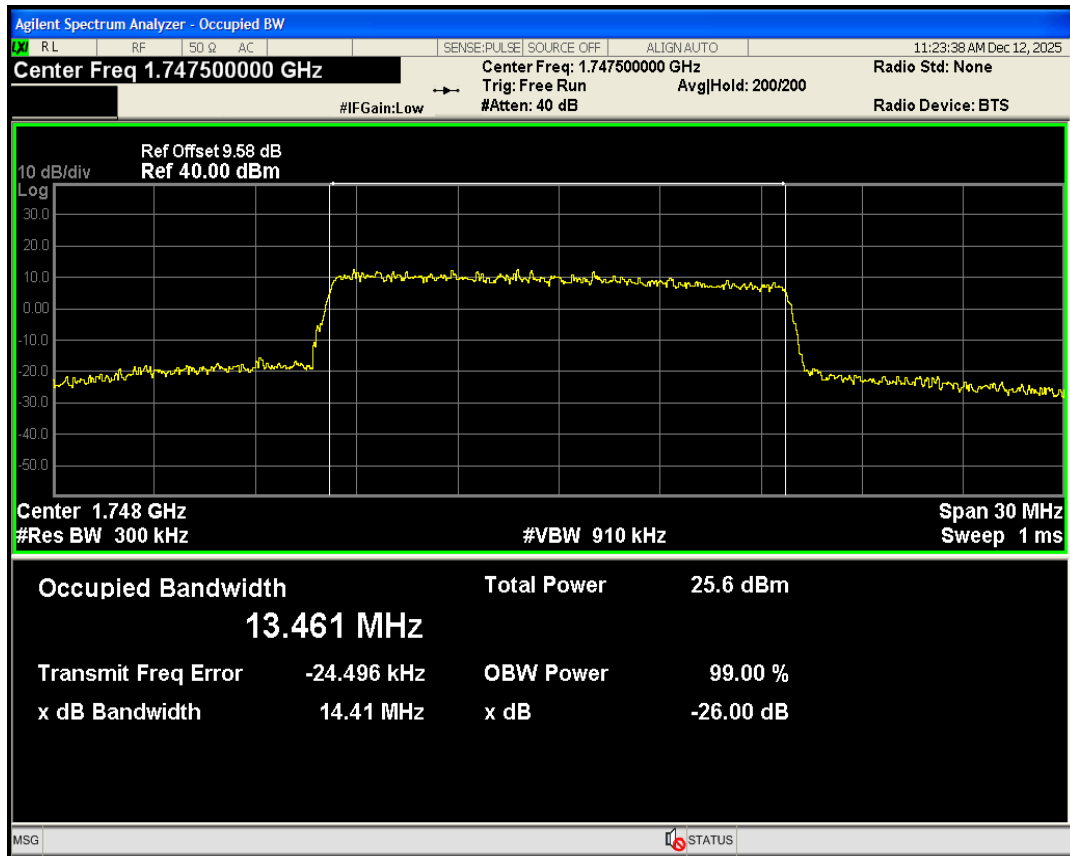


Band4 QAM16 BW=15MHz Channel=20025 RB Size=27 Position=#0

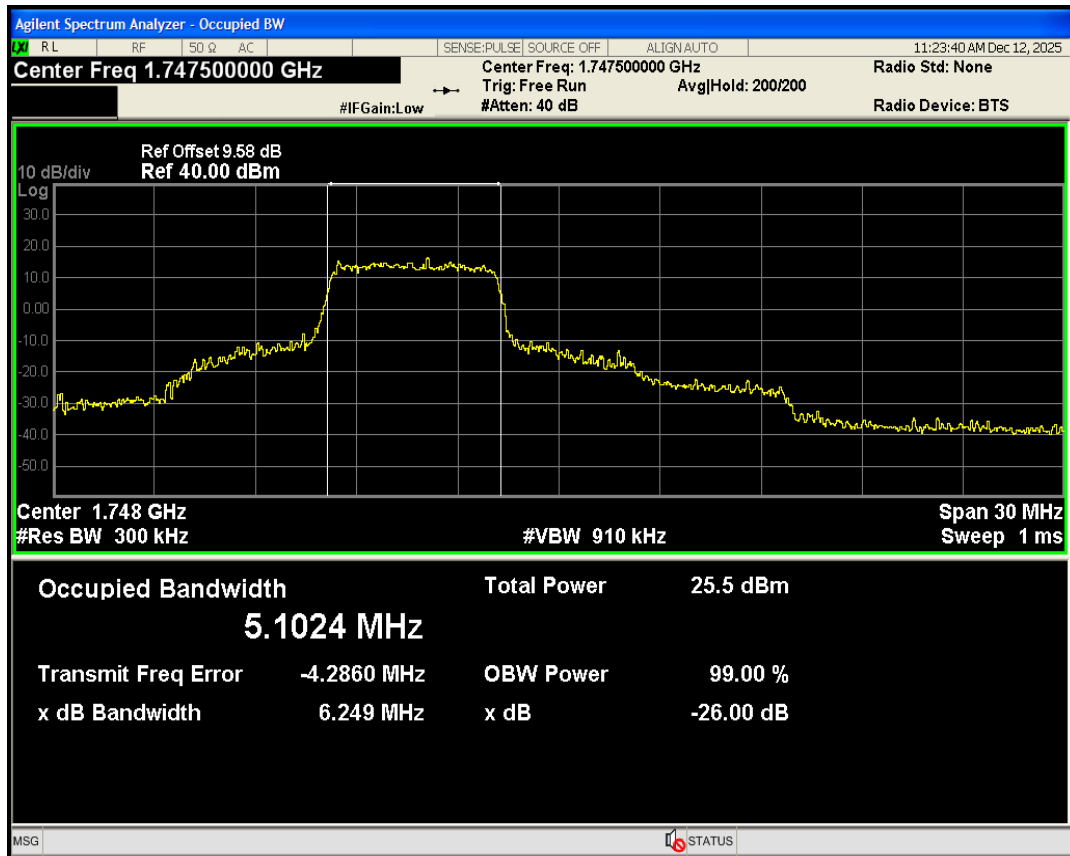


Report

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

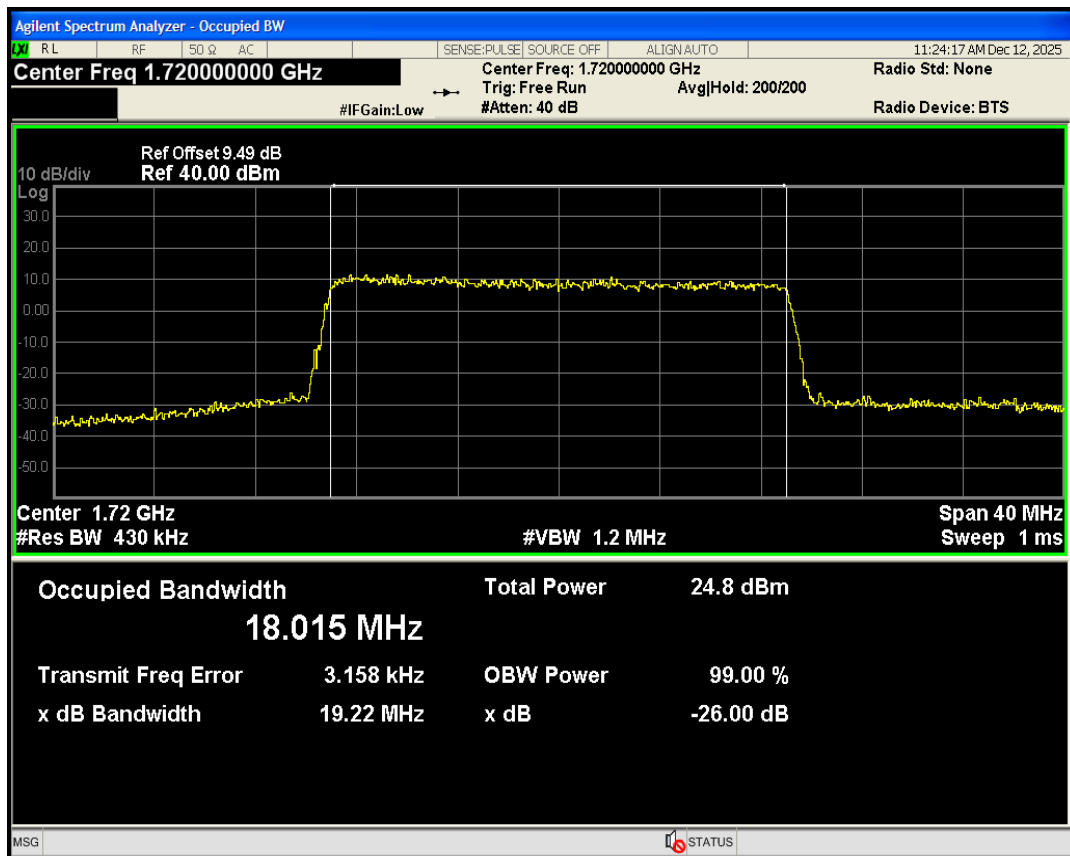


Band4 QAM16 BW=15MHz Channel=20325 RB Size=27 Position=#0

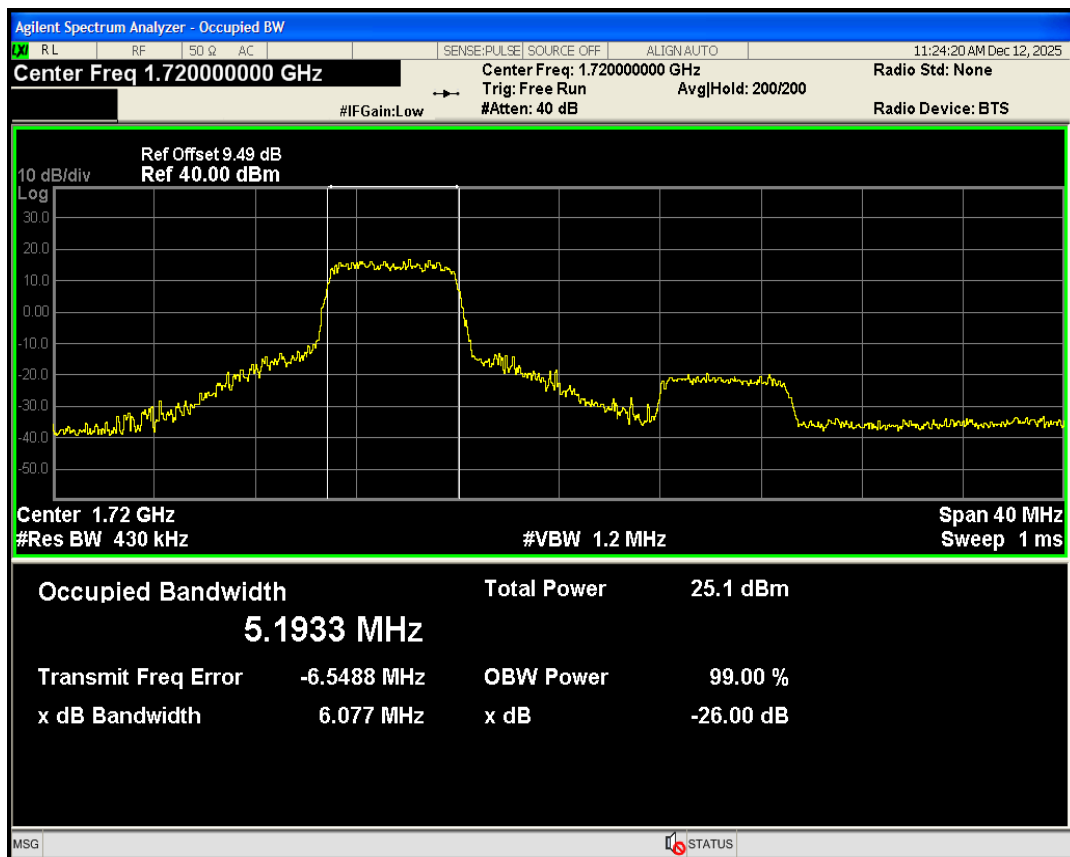


Report

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

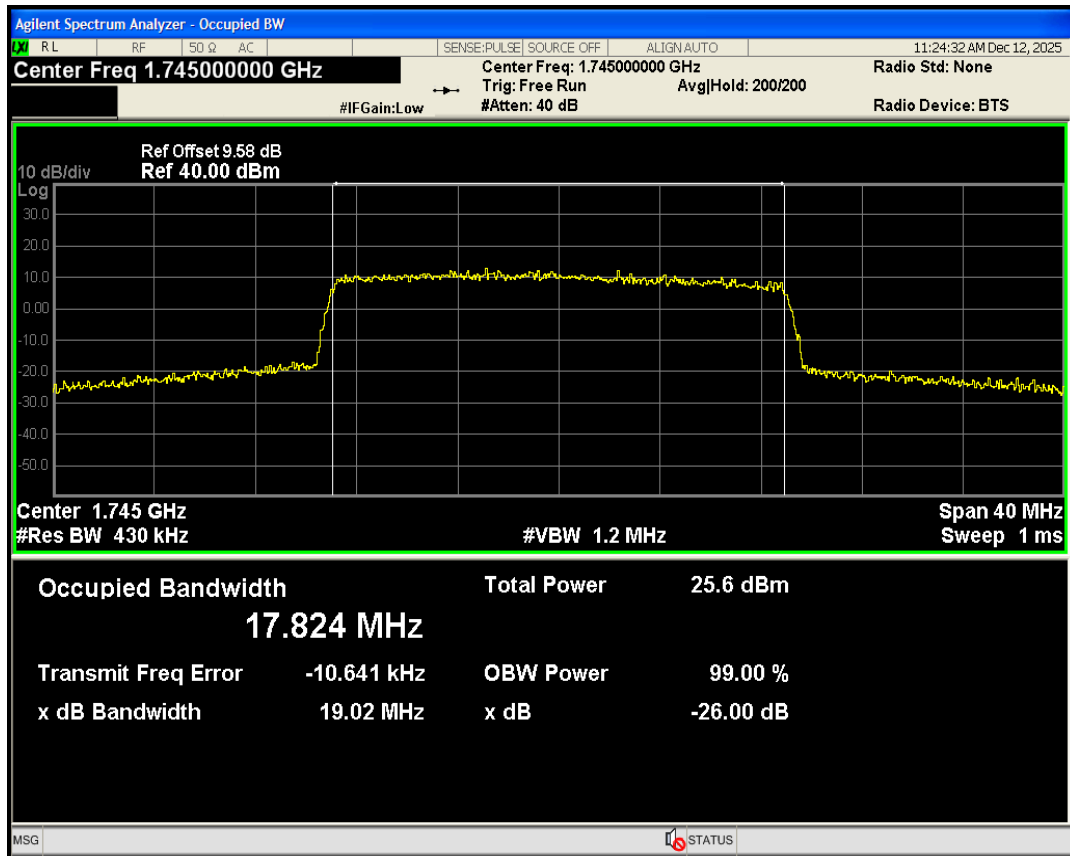


Band4 QAM16 BW=20MHz Channel=20050 RB Size=27 Position=#0

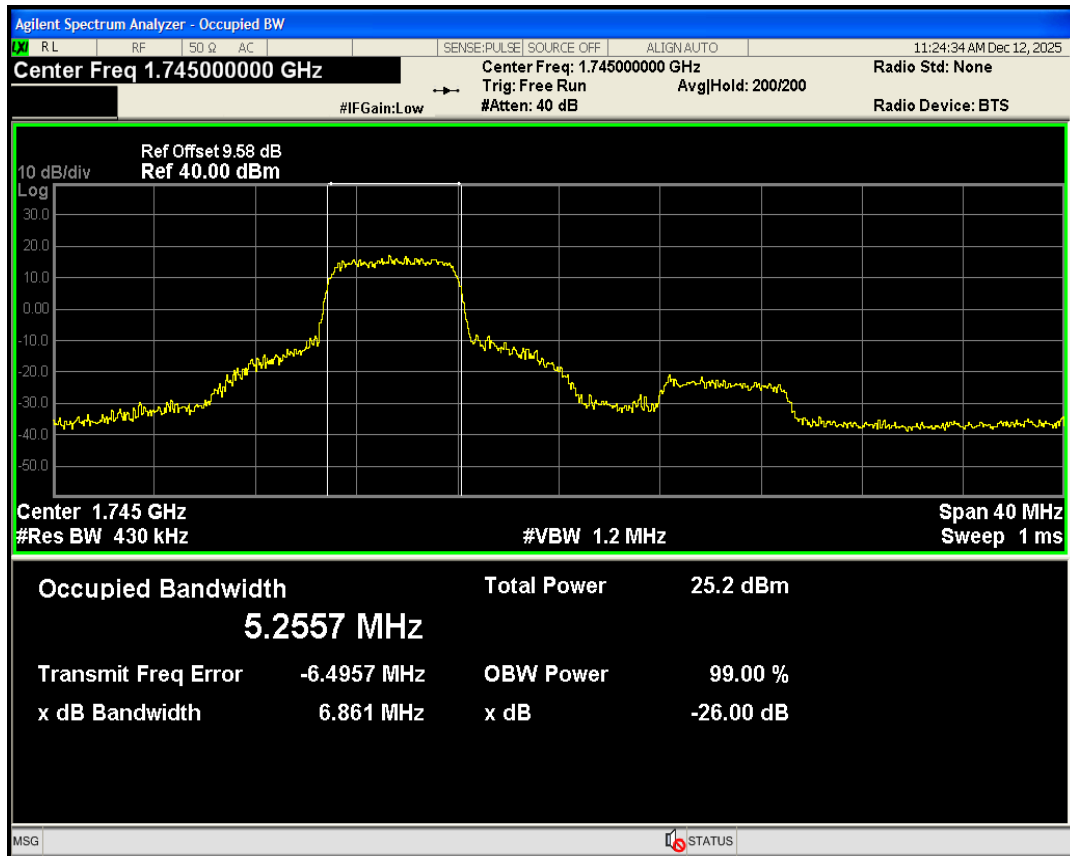


Report

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



Band4 QAM16 BW=20MHz Channel=20300 RB Size=27 Position=#0

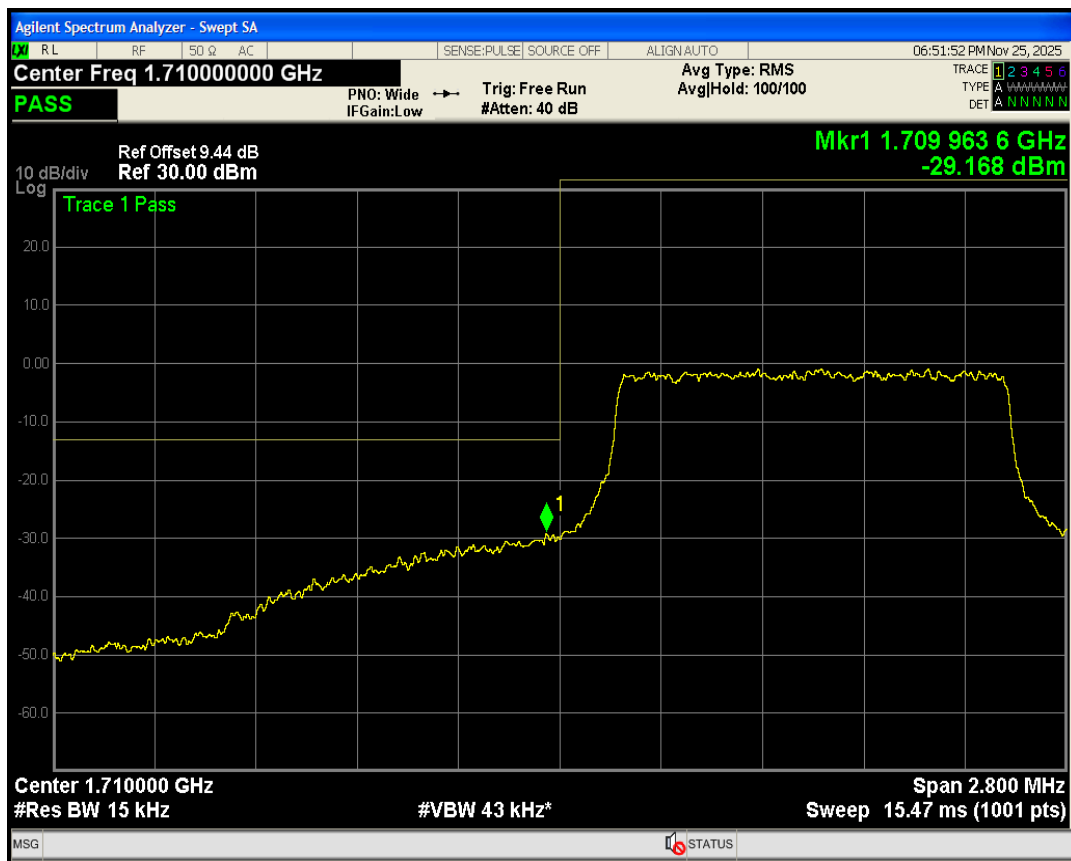


5. Band edge

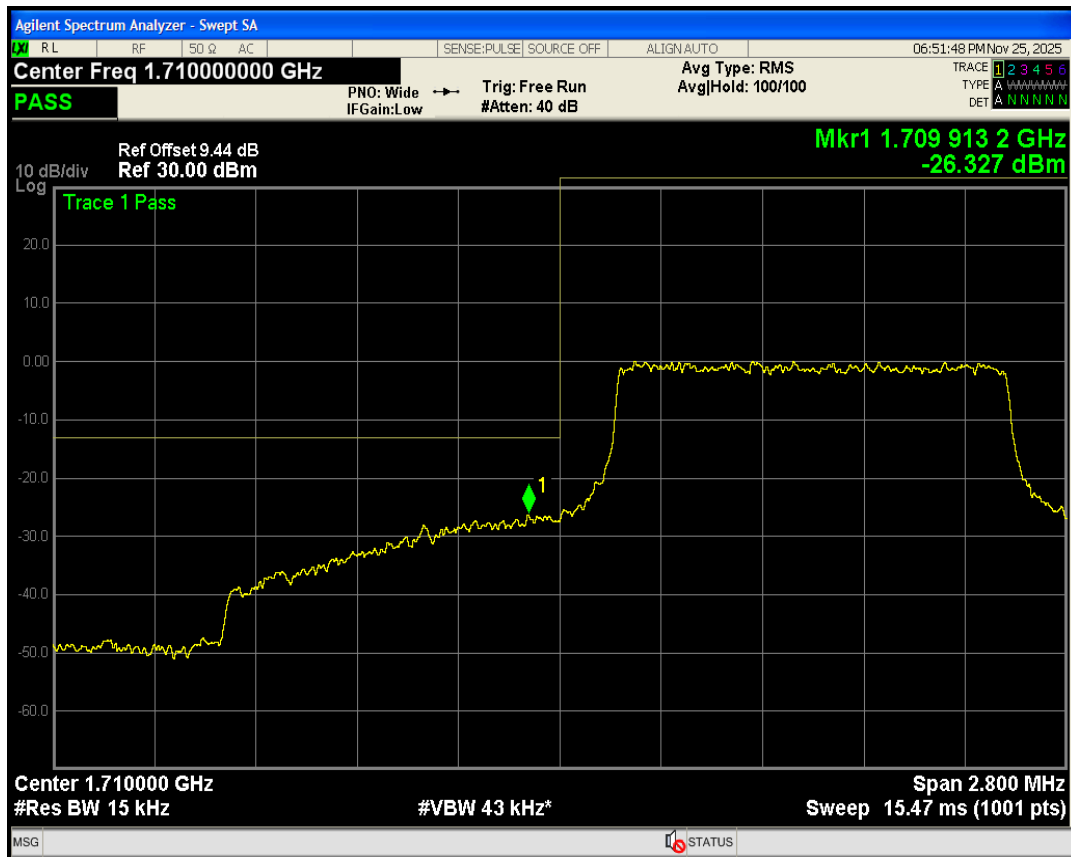
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band4	1.4	19957	6	#0	QPSK	1709.91	-26.32	-13	PASS
Band4	1.4	19957	6	#0	QAM16	1709.96	-29.16	-13	PASS
Band4	1.4	20393	6	#0	QPSK	1755.01	-39.44	-13	PASS
Band4	1.4	20393	6	#0	QAM16	1755.00	-40.29	-13	PASS
Band4	3	19965	15	#0	QPSK	1710.00	-27.32	-13	PASS
Band4	3	19965	15	#0	QAM16	1709.95	-30.20	-13	PASS
Band4	3	20385	15	#0	QPSK	1755.00	-40.77	-13	PASS
Band4	3	20385	15	#0	QAM16	1755.00	-40.23	-13	PASS
Band4	5	19975	25	#0	QPSK	1710.00	-29.79	-13	PASS
Band4	5	19975	25	#0	QAM16	1709.98	-34.06	-13	PASS
Band4	5	20375	25	#0	QPSK	1755.00	-38.06	-13	PASS
Band4	5	20375	25	#0	QAM16	1755.03	-39.80	-13	PASS
Band4	10	20000	50	#0	QPSK	1709.96	-39.61	-13	PASS
Band4	10	20000	27	#0	QAM16	1709.98	-33.40	-13	PASS
Band4	10	20350	50	#0	QPSK	1755.00	-39.18	-13	PASS
Band4	10	20350	27	#0	QAM16	1755.08	-44.22	-13	PASS
Band4	15	20025	75	#0	QPSK	1710.00	-40.25	-13	PASS
Band4	15	20025	27	#0	QAM16	1709.91	-31.50	-13	PASS
Band4	15	20325	75	#0	QPSK	1755.00	-32.94	-13	PASS
Band4	15	20325	27	#0	QAM16	1755.09	-48.01	-13	PASS
Band4	20	20050	100	#0	QPSK	1710.00	-40.01	-13	PASS
Band4	20	20050	27	#0	QAM16	1710.00	-32.14	-13	PASS
Band4	20	20300	100	#0	QPSK	1755.44	-33.47	-13	PASS
Band4	20	20300	27	#0	QAM16	1763.88	-47.82	-13	PASS

Report

Band4 QAM16 BW=1.4MHz Channel=19957 RB Size=6 Position=#0



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



Report

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

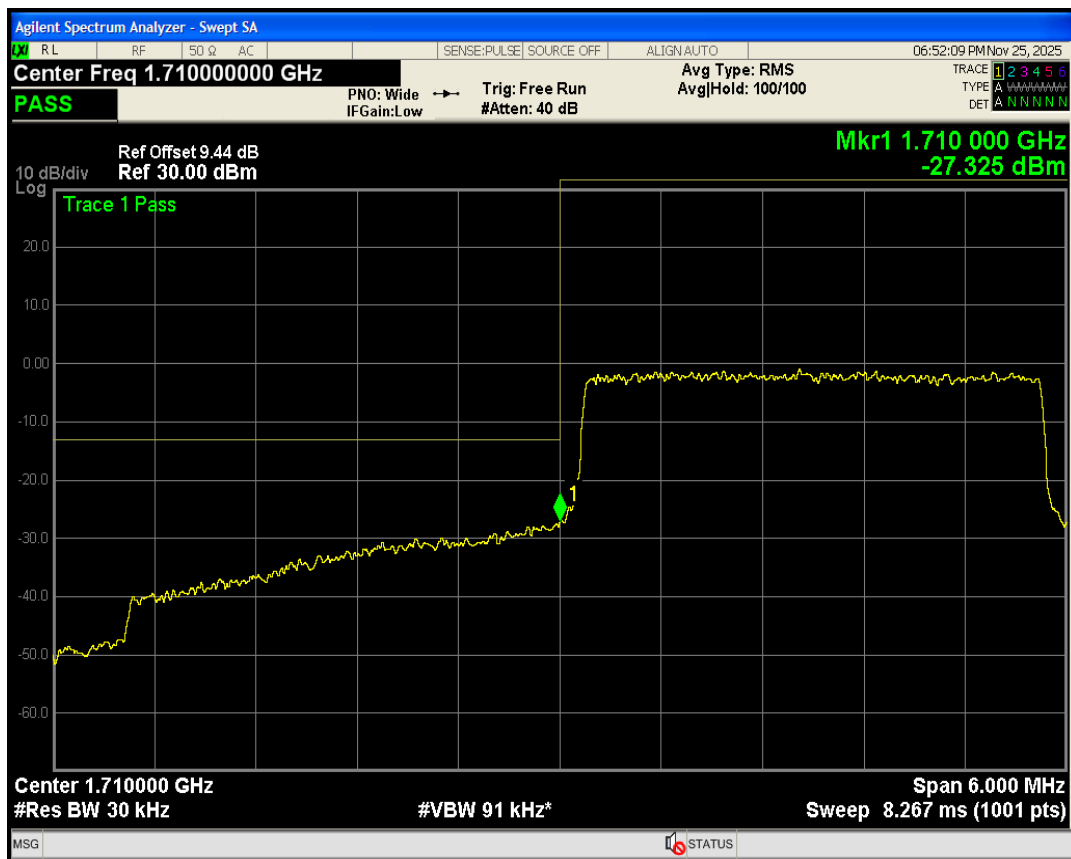


Band4 QAM16 BW=1.4MHz Channel=20393 RB Size=6 Position=#0

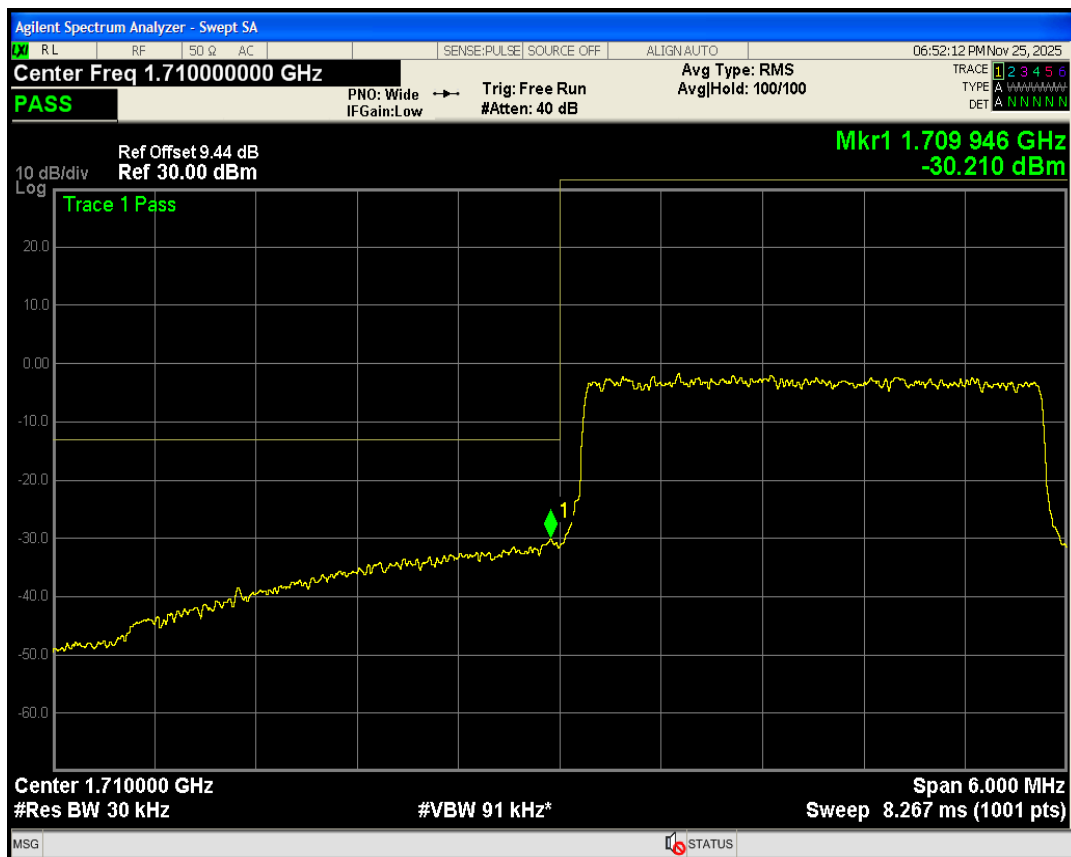


Report

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

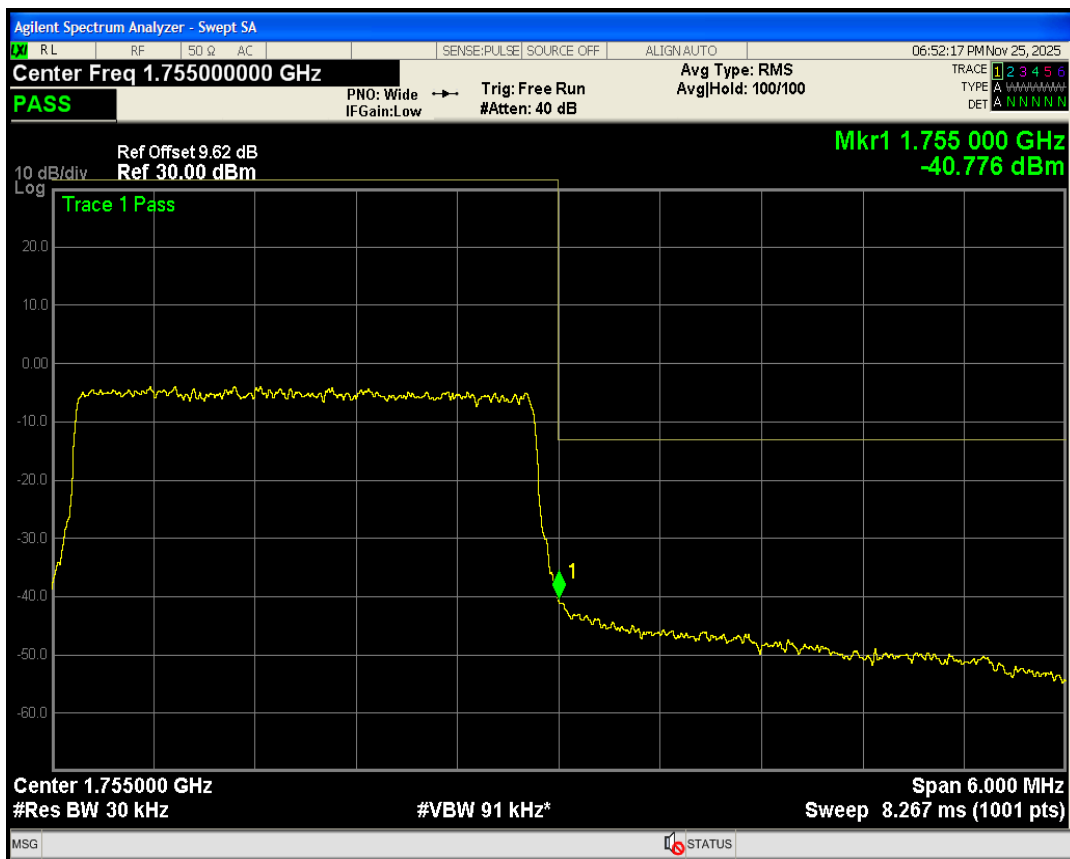


Band4 QAM16 BW=3MHz Channel=19965 RB Size=15 Position=#0

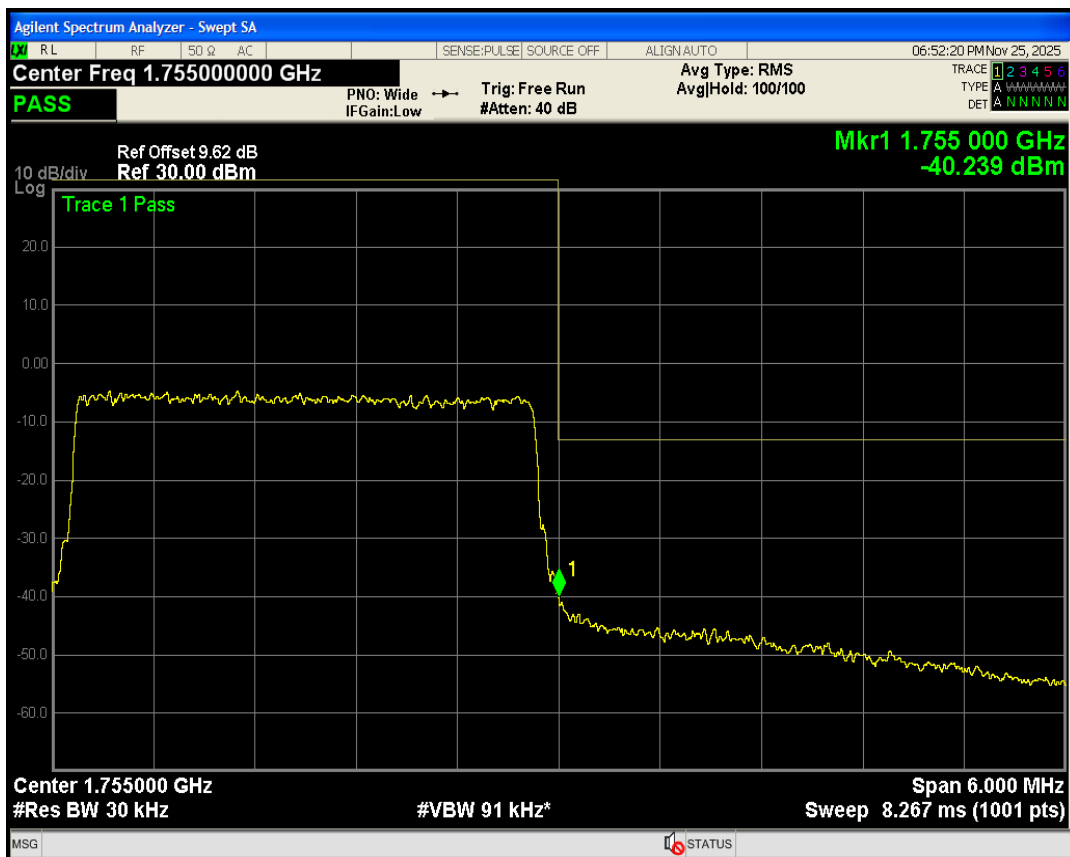


Report

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

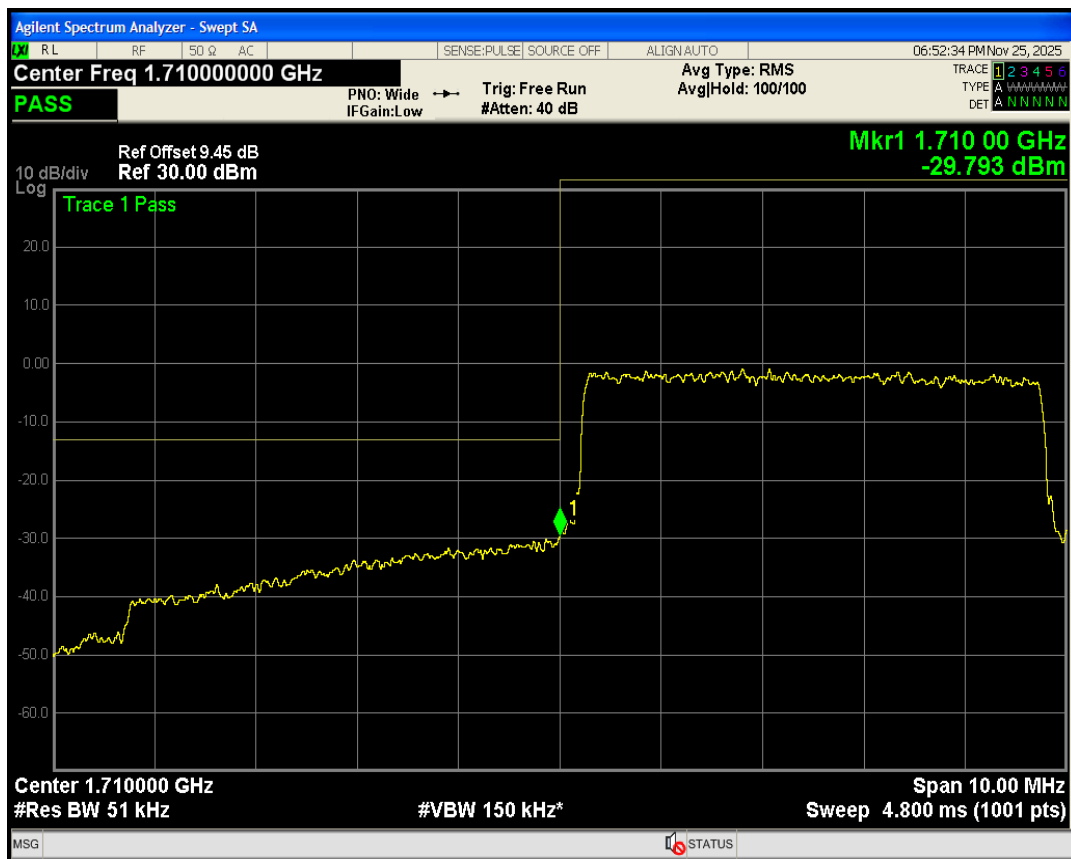


Band4 QAM16 BW=3MHz Channel=20385 RB Size=15 Position=#0

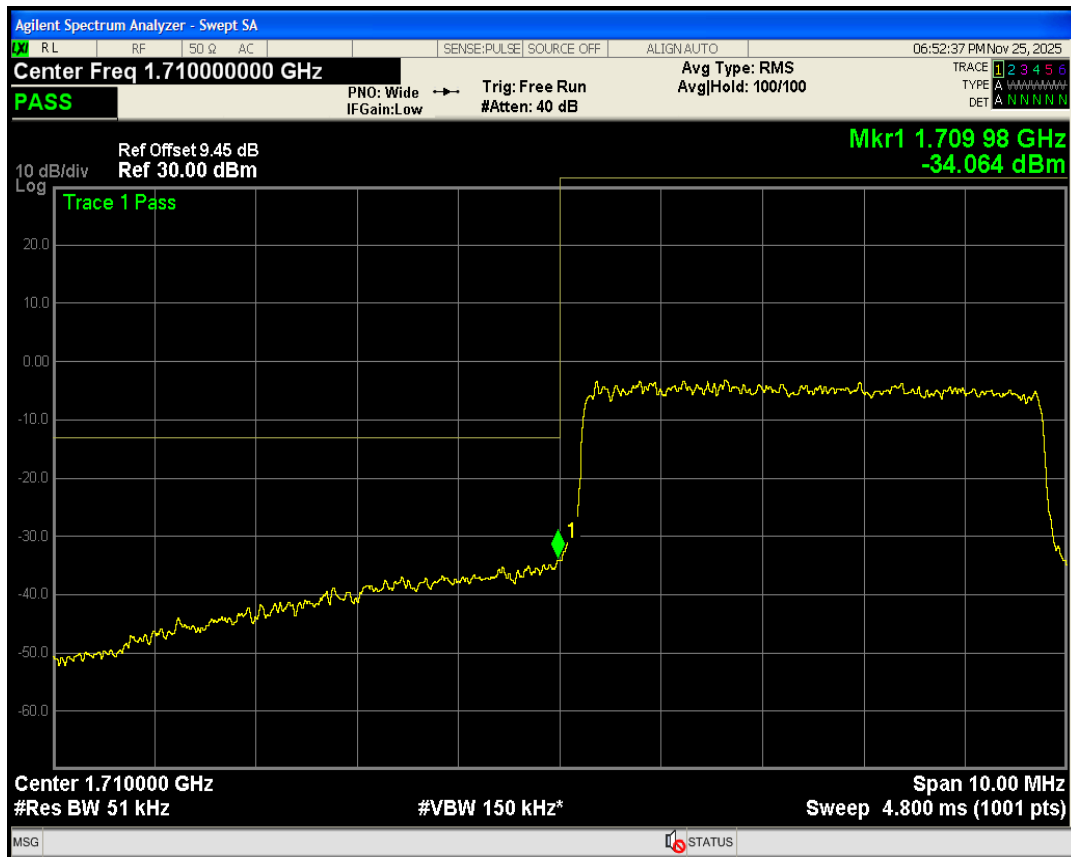


Report

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

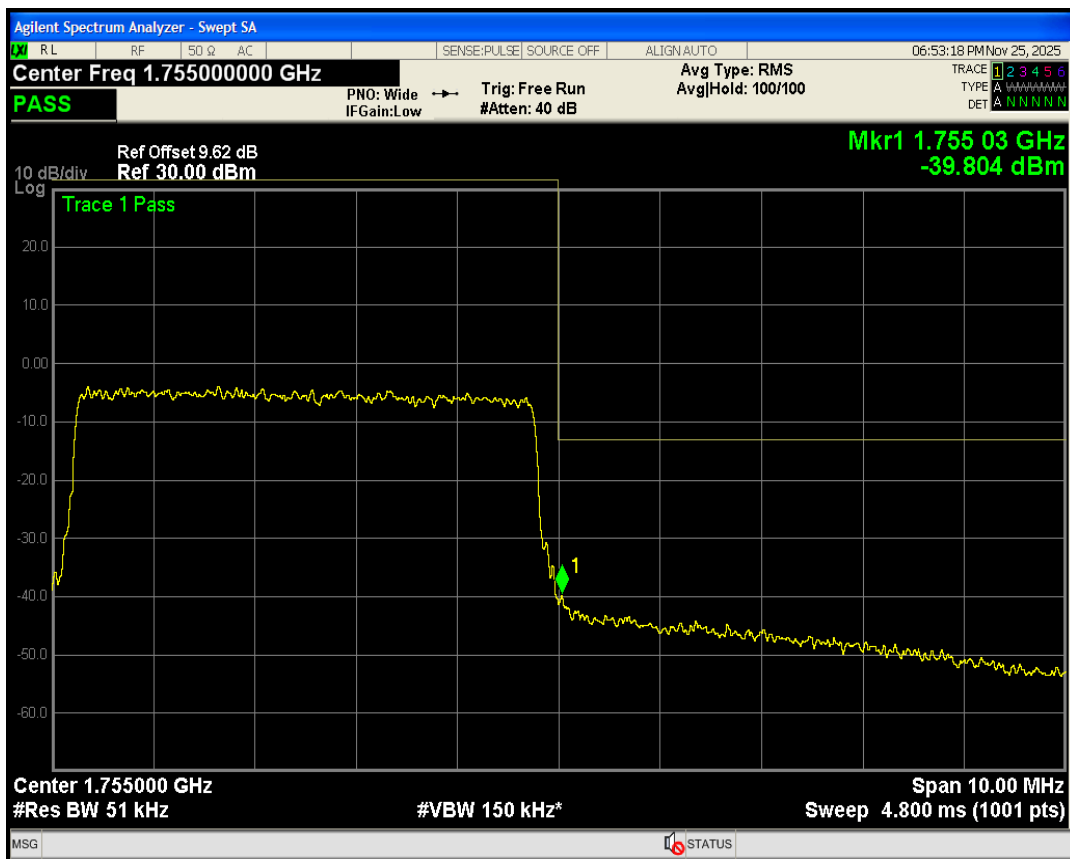


Band4 QAM16 BW=5MHz Channel=19975 RB Size=25 Position=#0

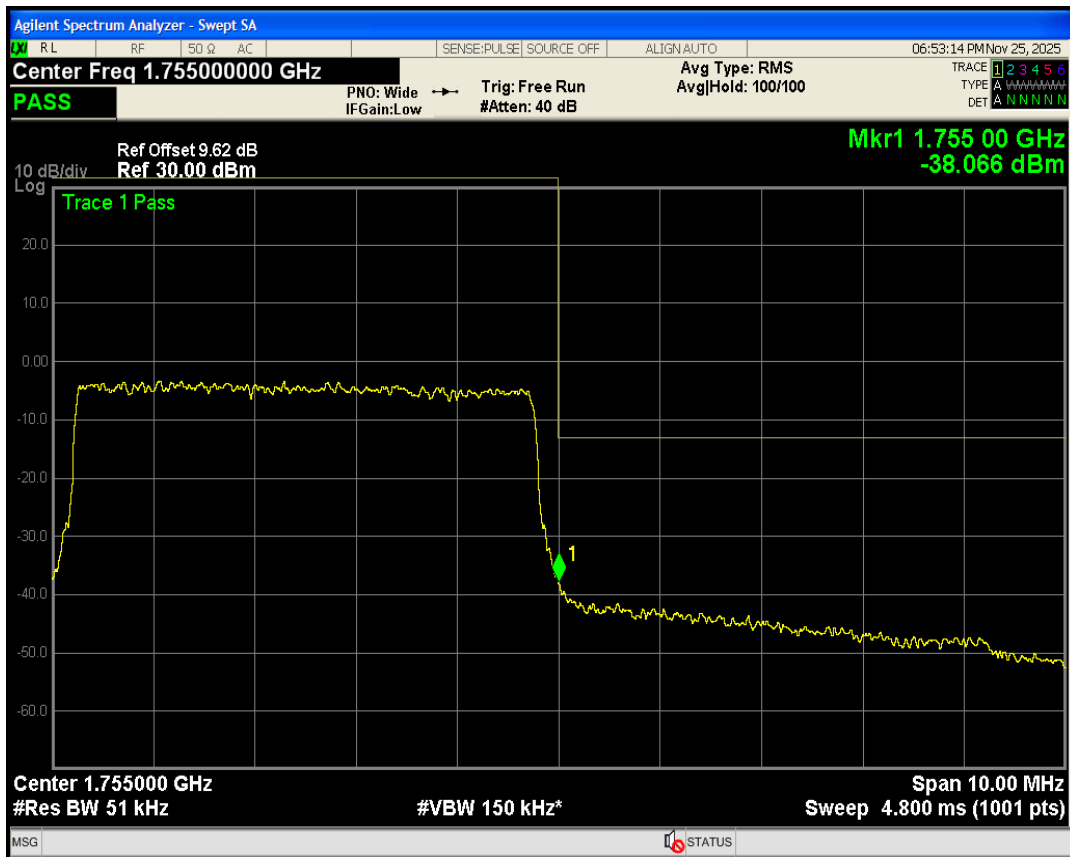


Report

Band4 QAM16 BW=5MHz Channel=20375 RB Size=25 Position=#0

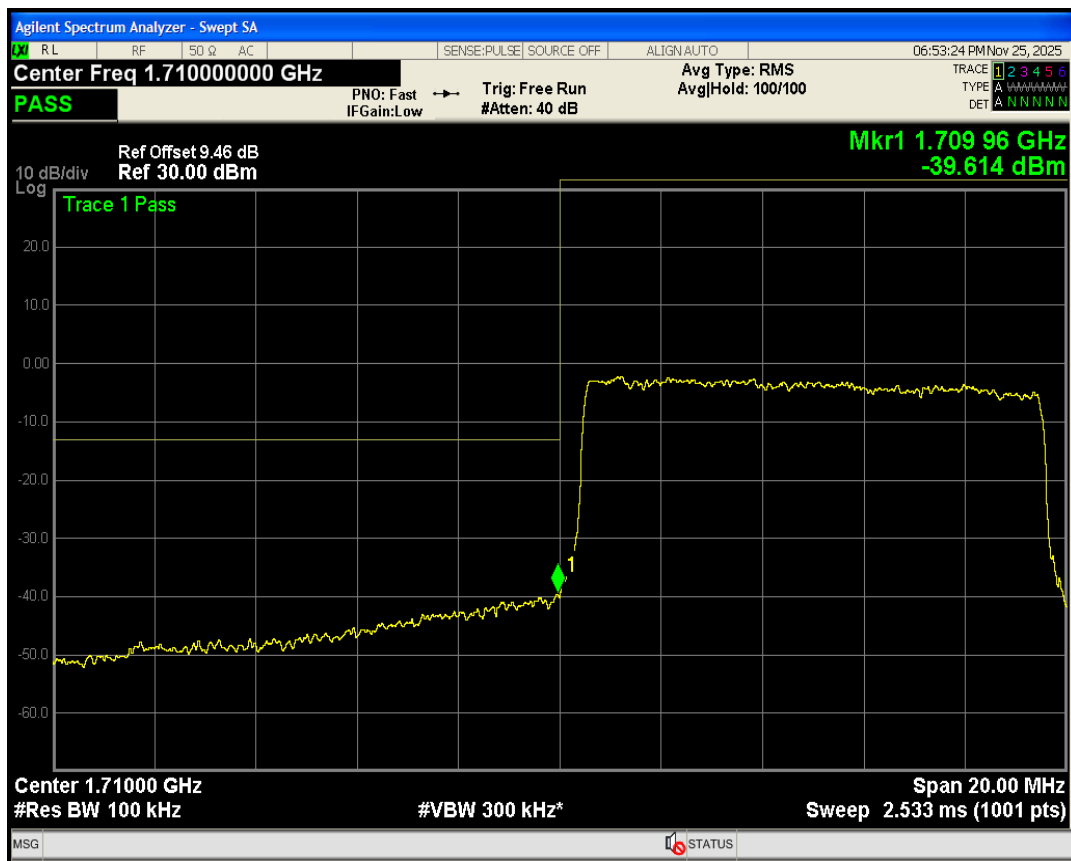


Band4 QPSK BW=5MHz Channel=20375 RB Size=25 Position=#0



Report

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

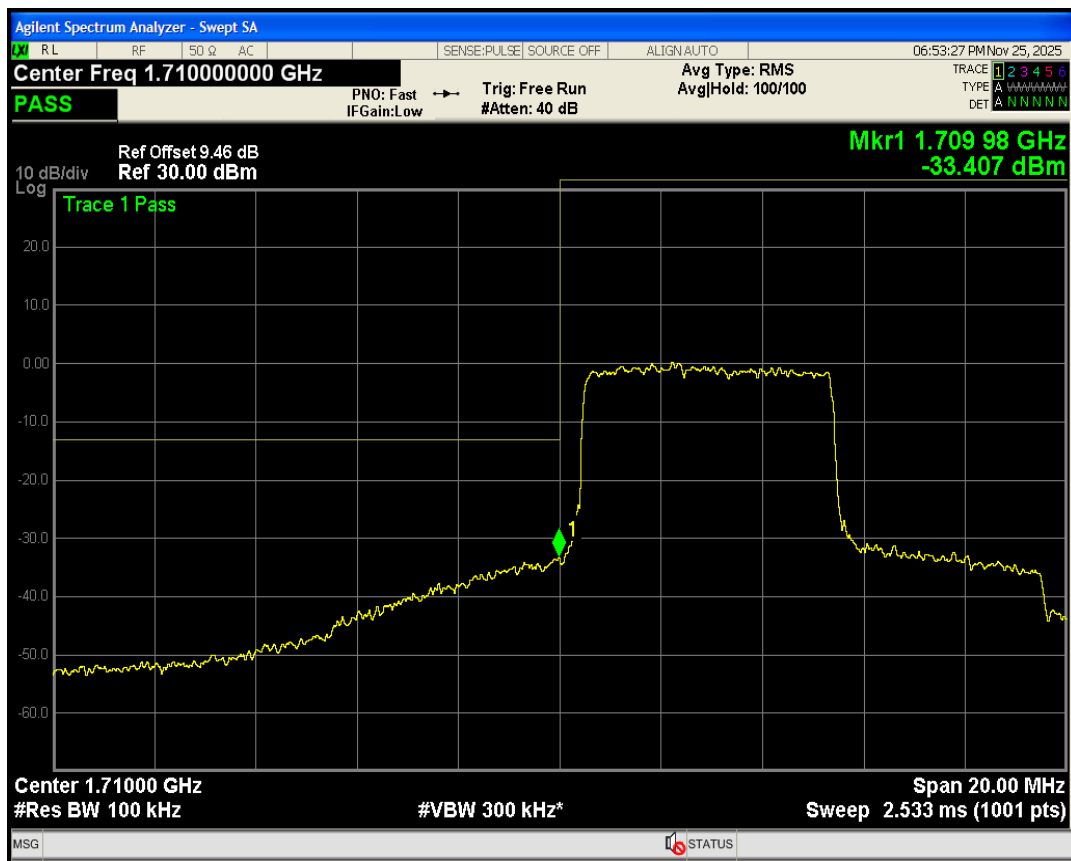


Band4 QPSK BW=10MHz Channel=20350 RB Size=50 Position=#0

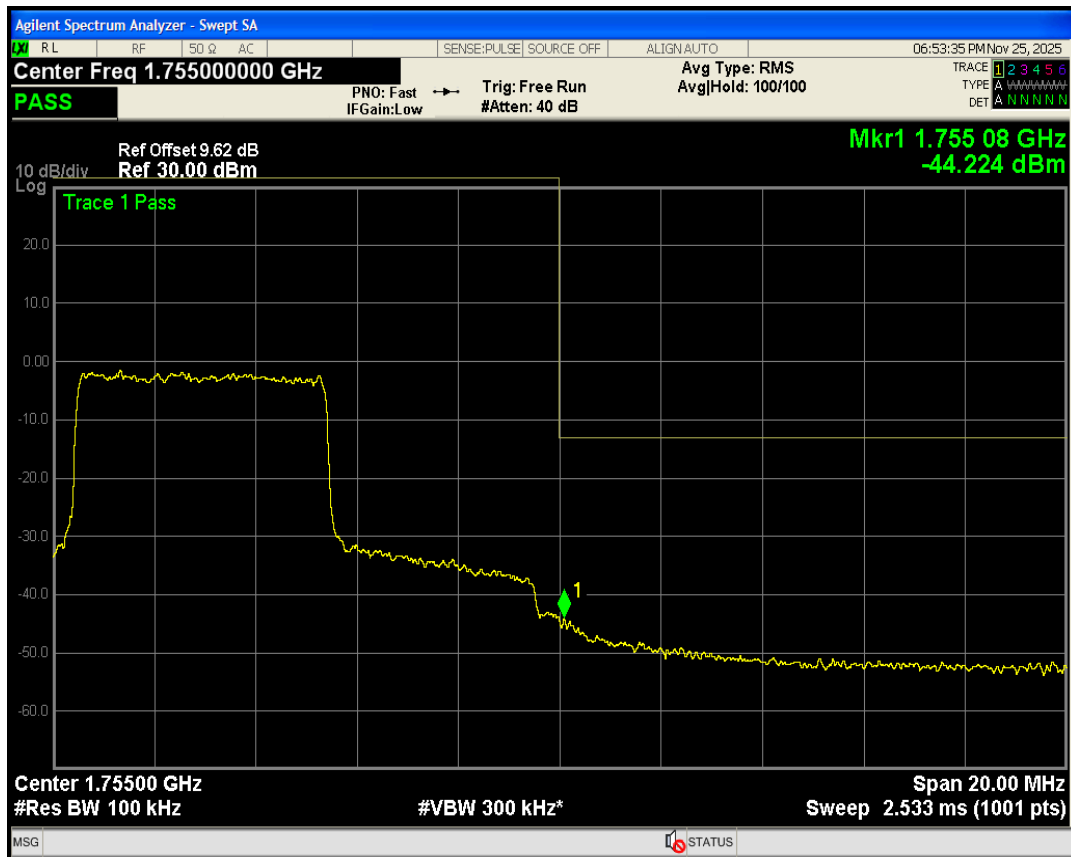


Report

Band4 QAM16 BW=10MHz Channel=20000 RB Size=27 Position=#0

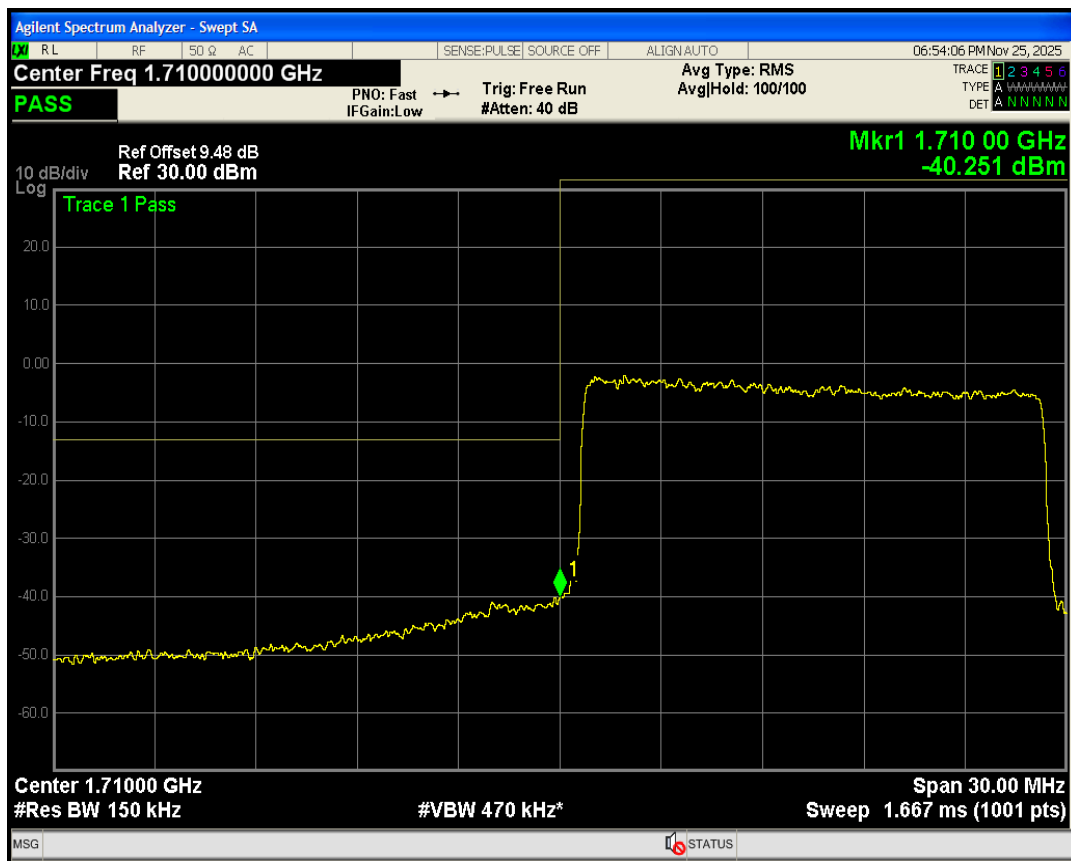


Band4 QAM16 BW=10MHz Channel=20350 RB Size=27 Position=#0

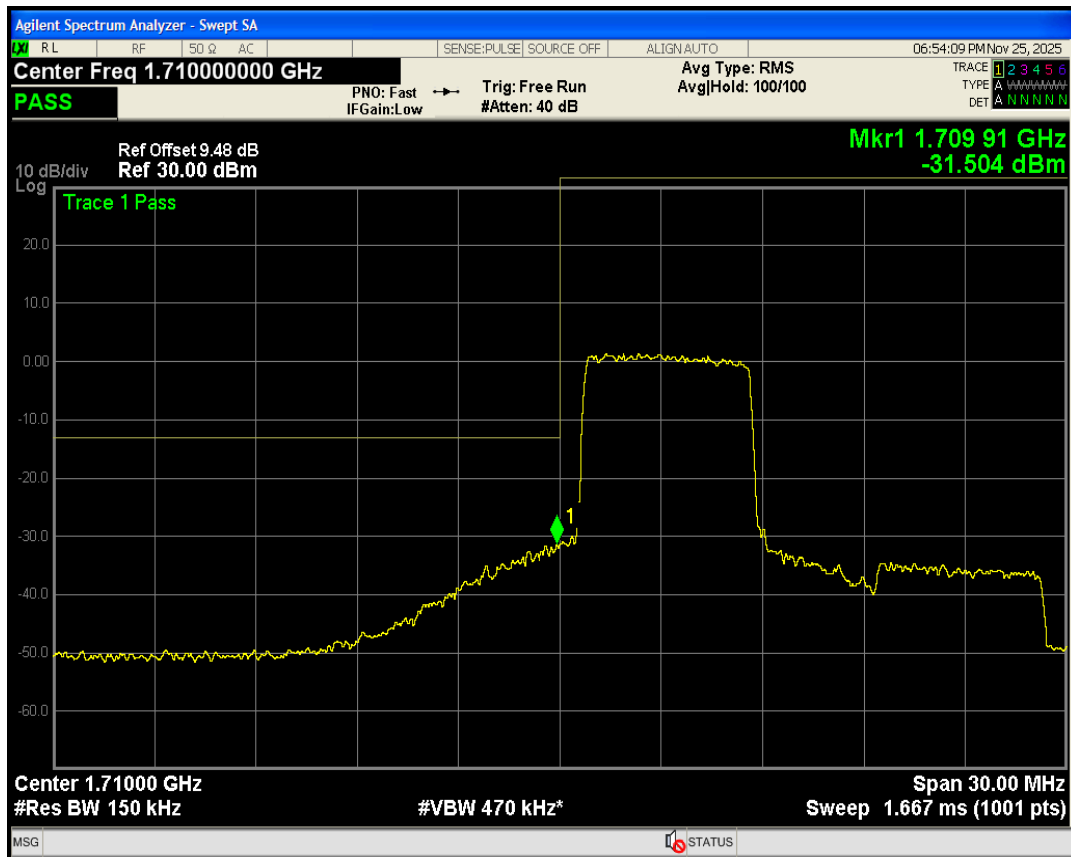


Report

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



Band4 QAM16 BW=15MHz Channel=20025 RB Size=27 Position=#0



Report

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

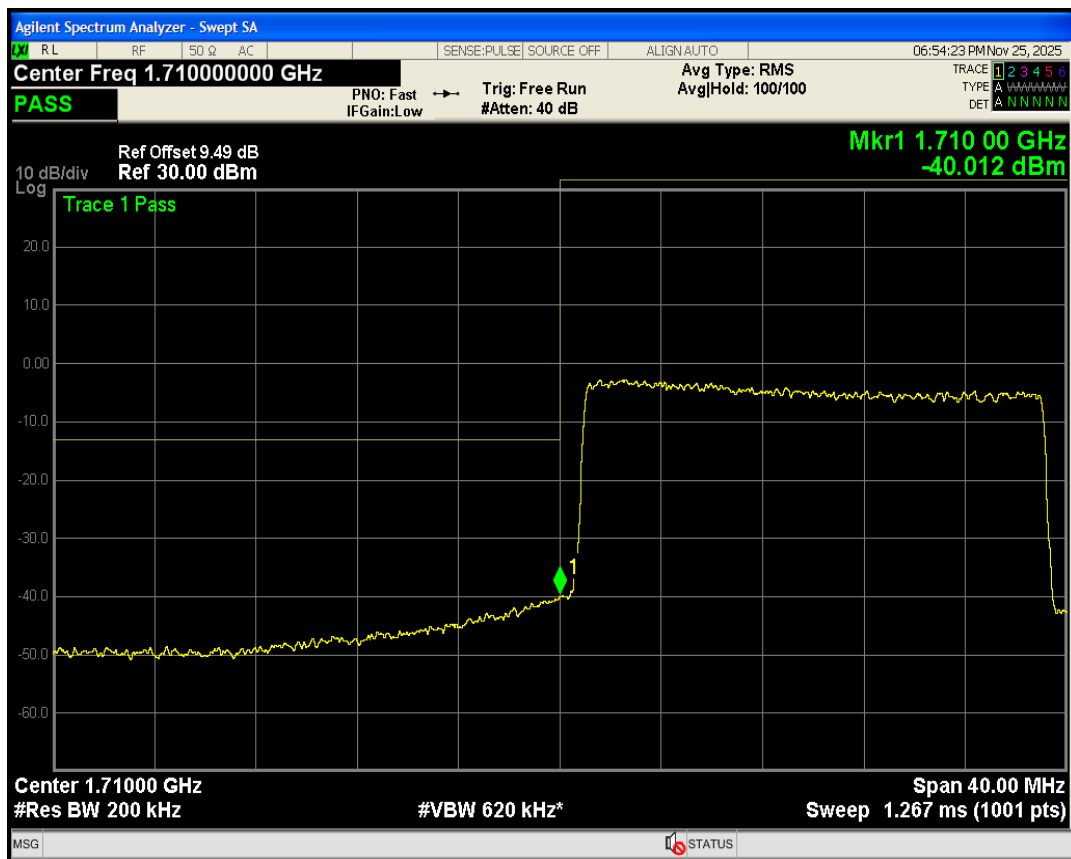


Band4 QAM16 BW=15MHz Channel=20325 RB Size=27 Position=#0

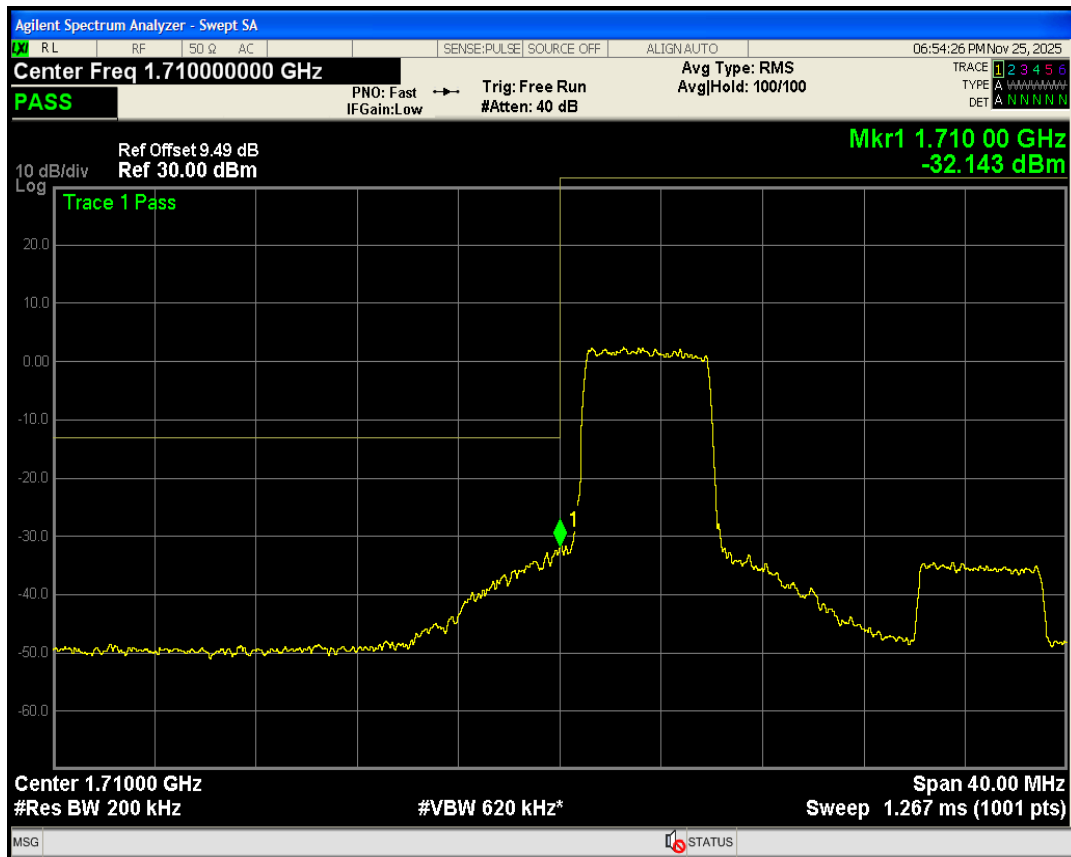


Report

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



Band4 QAM16 BW=20MHz Channel=20050 RB Size=27 Position=#0



Report

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



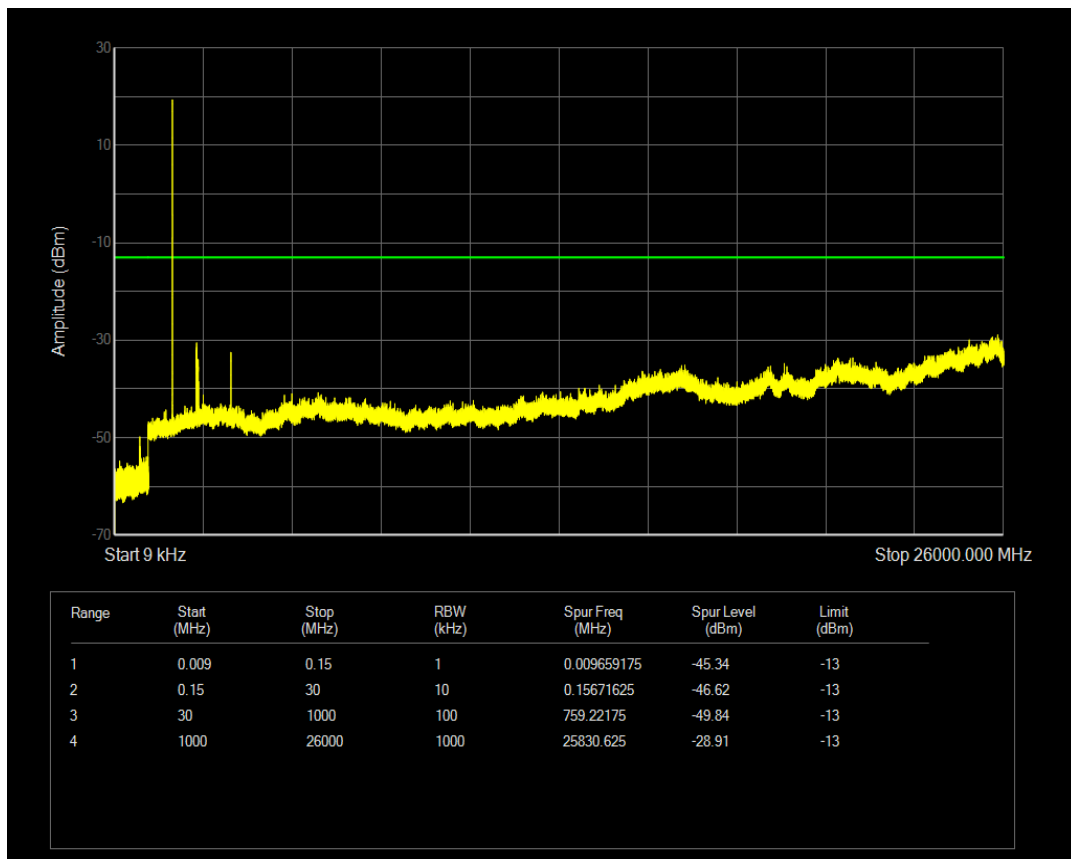
6. Band4 QAM16 BW=20MHz Channel=20300 RB Size=27 Position=#0



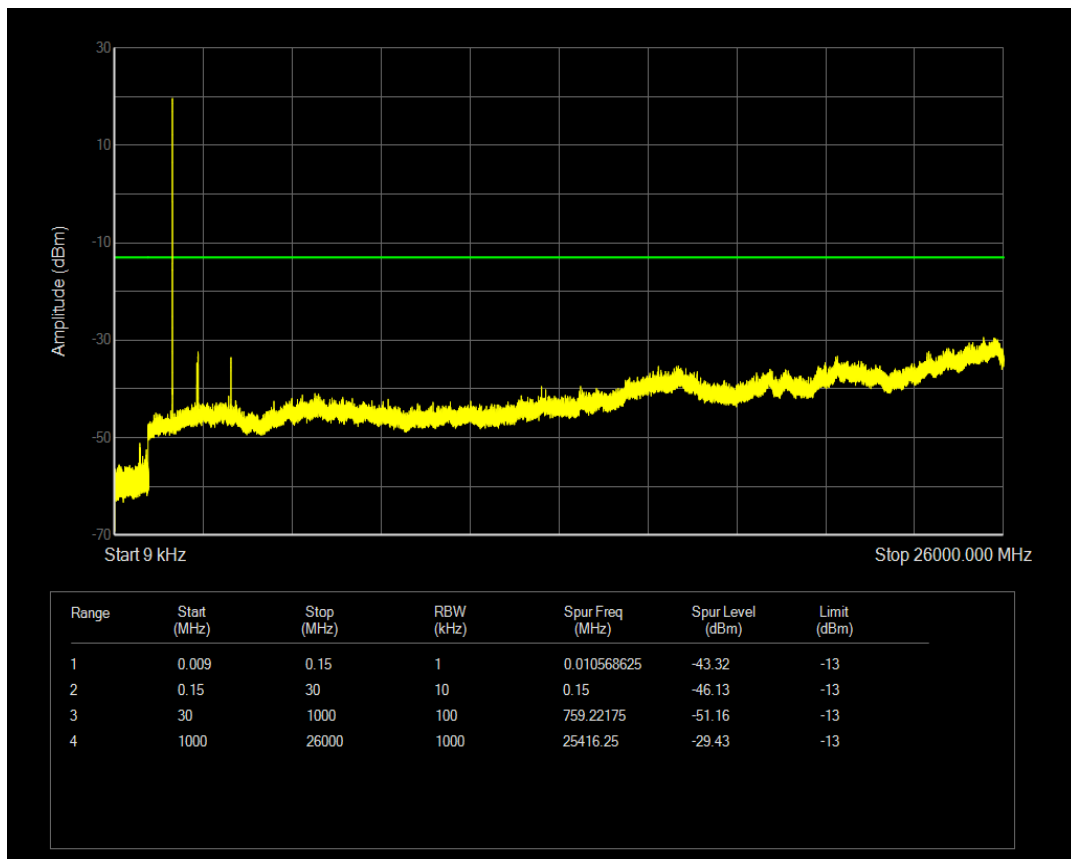
7. Out-of-band emissions

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	25416.25	-29.43	-13	PASS
Band4	1.4	19957	6	#0	QAM16	25830.63	-28.91	-13	PASS
Band4	1.4	20393	6	#0	QPSK	25408.13	-29.04	-13	PASS
Band4	1.4	20393	6	#0	QAM16	25816.25	-27.99	-13	PASS
Band4	3	19965	15	#0	QPSK	2425.00	-28.65	-13	PASS
Band4	3	19965	15	#0	QAM16	25791.25	-28.50	-13	PASS
Band4	3	20385	15	#0	QPSK	25797.50	-27.74	-13	PASS
Band4	3	20385	15	#0	QAM16	25418.13	-27.73	-13	PASS
Band4	5	19975	25	#0	QPSK	25628.13	-29.53	-13	PASS
Band4	5	19975	25	#0	QAM16	25733.13	-28.81	-13	PASS
Band4	5	20375	25	#0	QPSK	25734.38	-28.99	-13	PASS
Band4	5	20375	25	#0	QAM16	25611.88	-28.78	-13	PASS
Band4	10	20000	50	#0	QPSK	25707.50	-28.27	-13	PASS
Band4	10	20000	27	#0	QAM16	25796.25	-28.94	-13	PASS
Band4	10	20350	50	#0	QPSK	25770.00	-28.31	-13	PASS
Band4	10	20350	27	#0	QAM16	25766.25	-28.41	-13	PASS
Band4	15	20025	75	#0	QPSK	25816.25	-29.11	-13	PASS
Band4	15	20025	27	#0	QAM16	2425.63	-27.39	-13	PASS
Band4	15	20325	75	#0	QPSK	25905.00	-29.20	-13	PASS
Band4	15	20325	27	#0	QAM16	25676.88	-28.80	-13	PASS
Band4	20	20050	100	#0	QPSK	25801.25	-28.48	-13	PASS
Band4	20	20050	27	#0	QAM16	25798.13	-27.01	-13	PASS
Band4	20	20300	100	#0	QPSK	25766.88	-28.85	-13	PASS
Band4	20	20300	27	#0	QAM16	3498.13	-26.76	-13	PASS

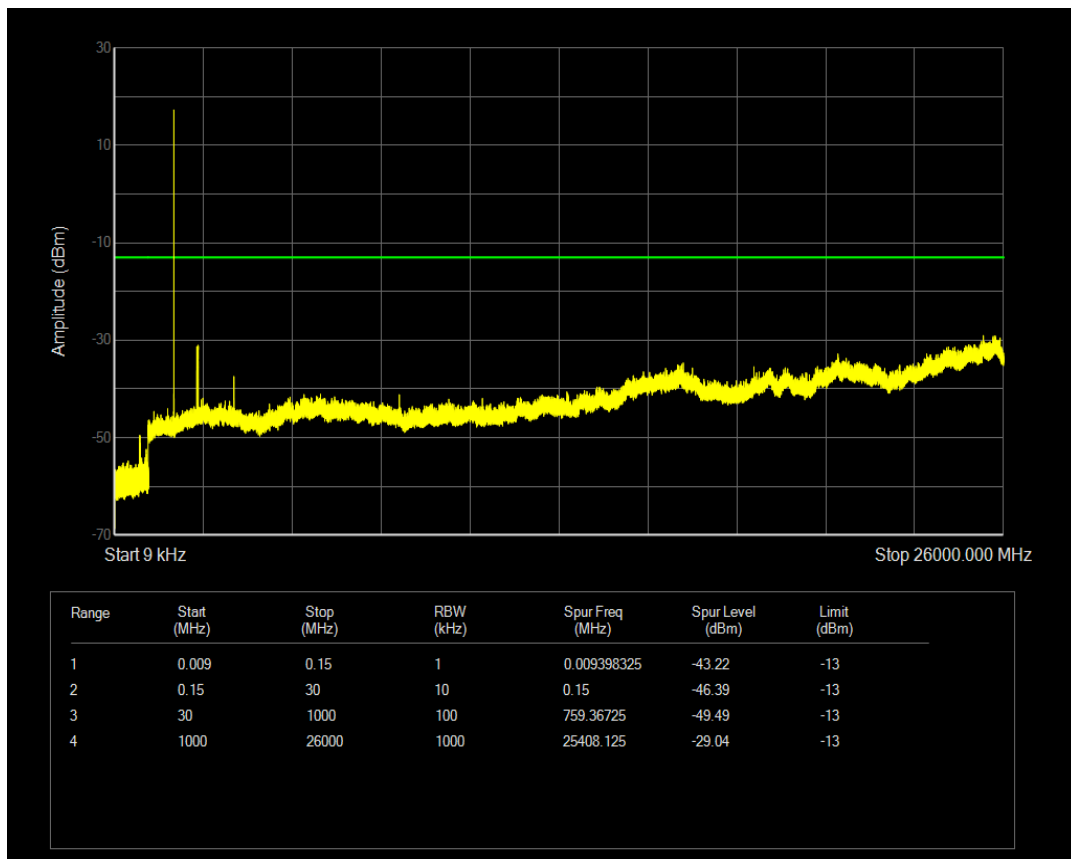
Band4 QAM16 BW=1.4MHz Channel=19957 RB Size=6 Position=#0



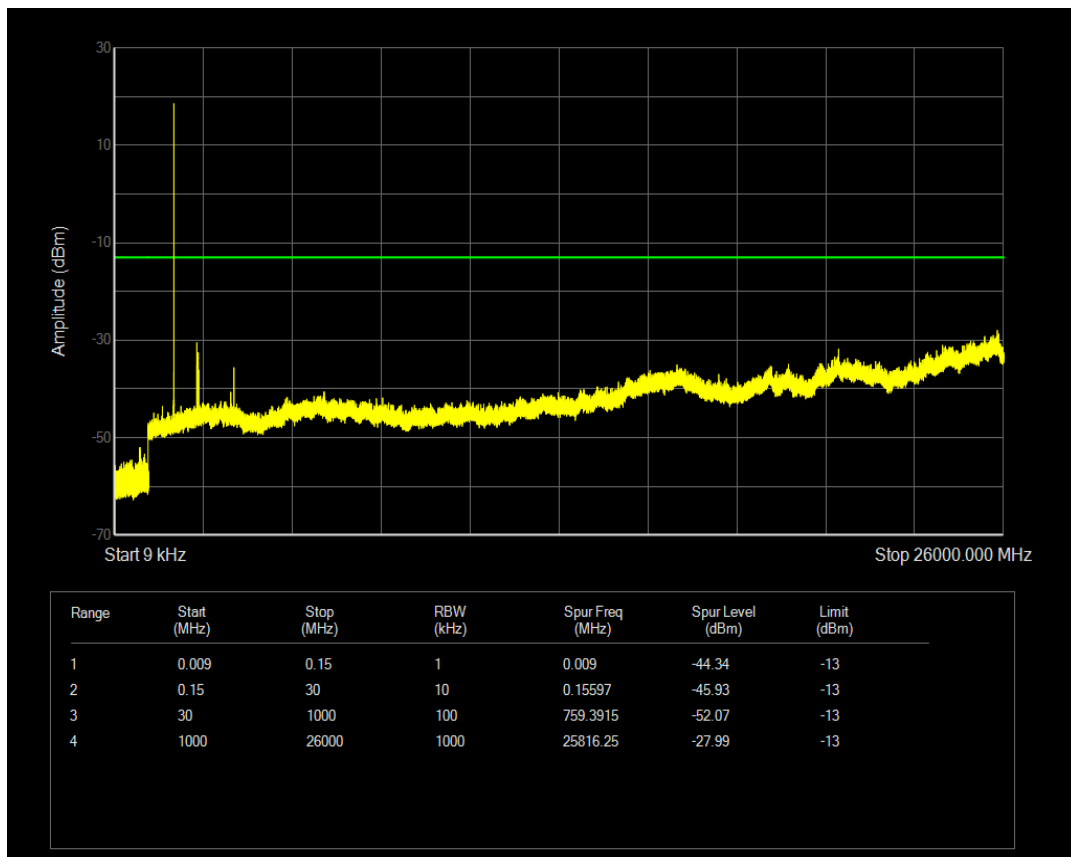
Band4 QPSK BW=1.4MHz Channel=19957 RB Size=6 Position=#0



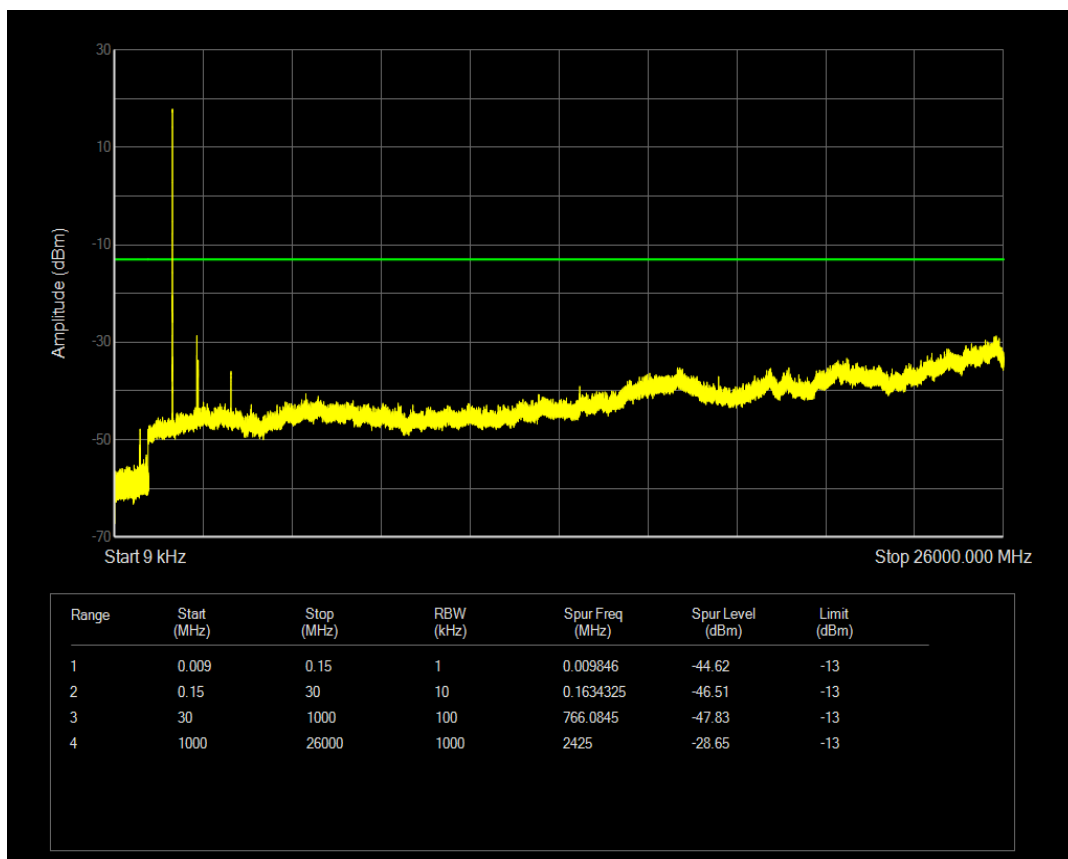
Band4 QPSK BW=1.4MHz Channel=20393 RB Size=6 Position=#0



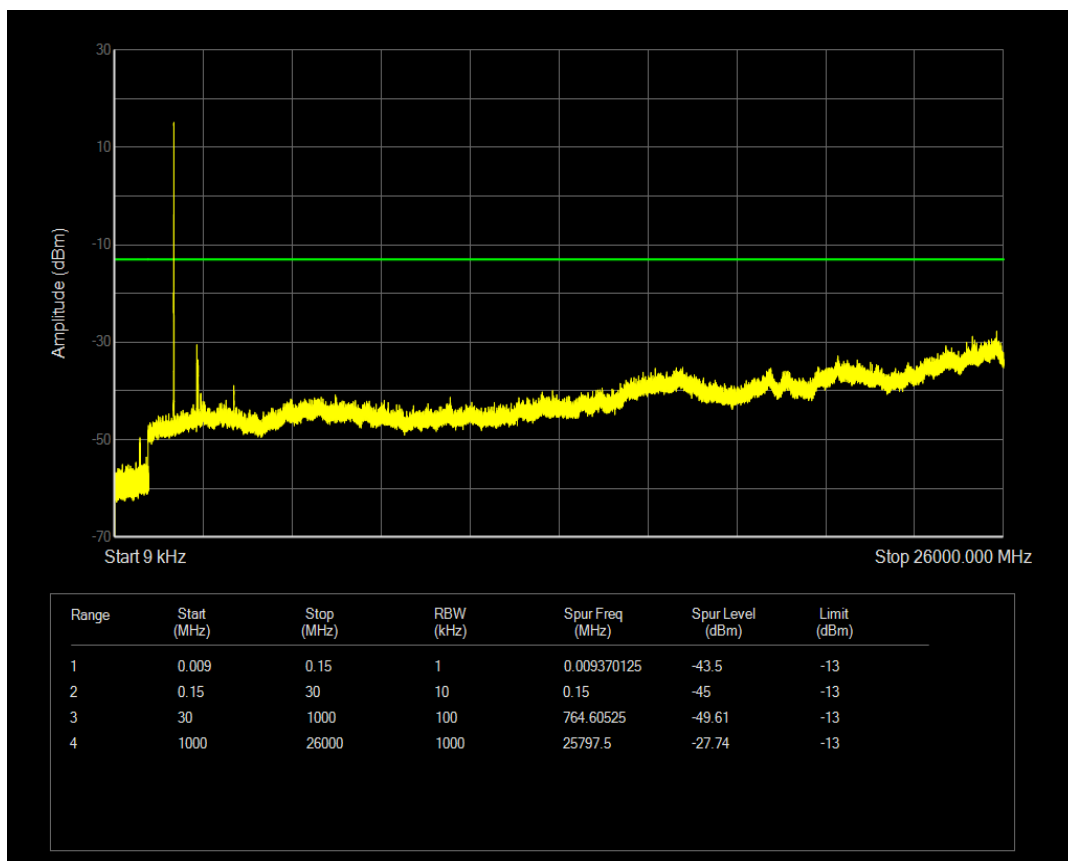
Band4 QAM16 BW=1.4MHz Channel=20393 RB Size=6 Position=#0



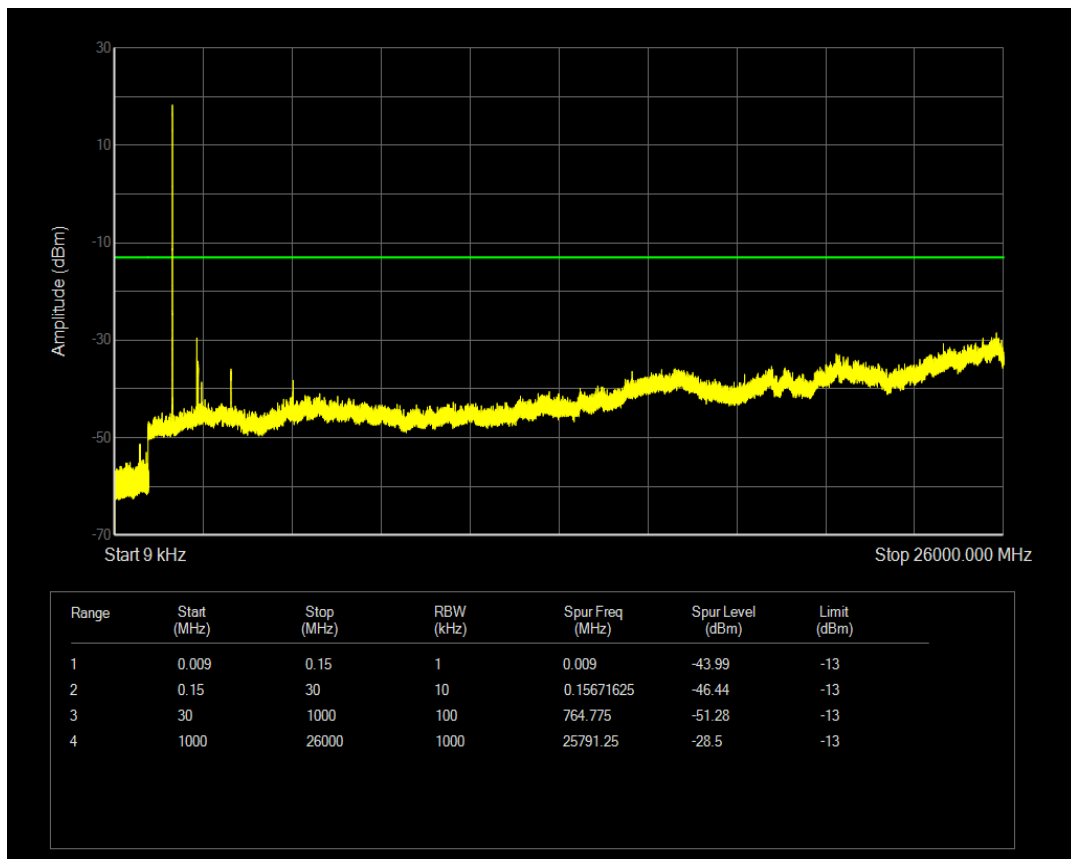
Band4 QPSK BW=3MHz Channel=19965 RB Size=15 Position=#0



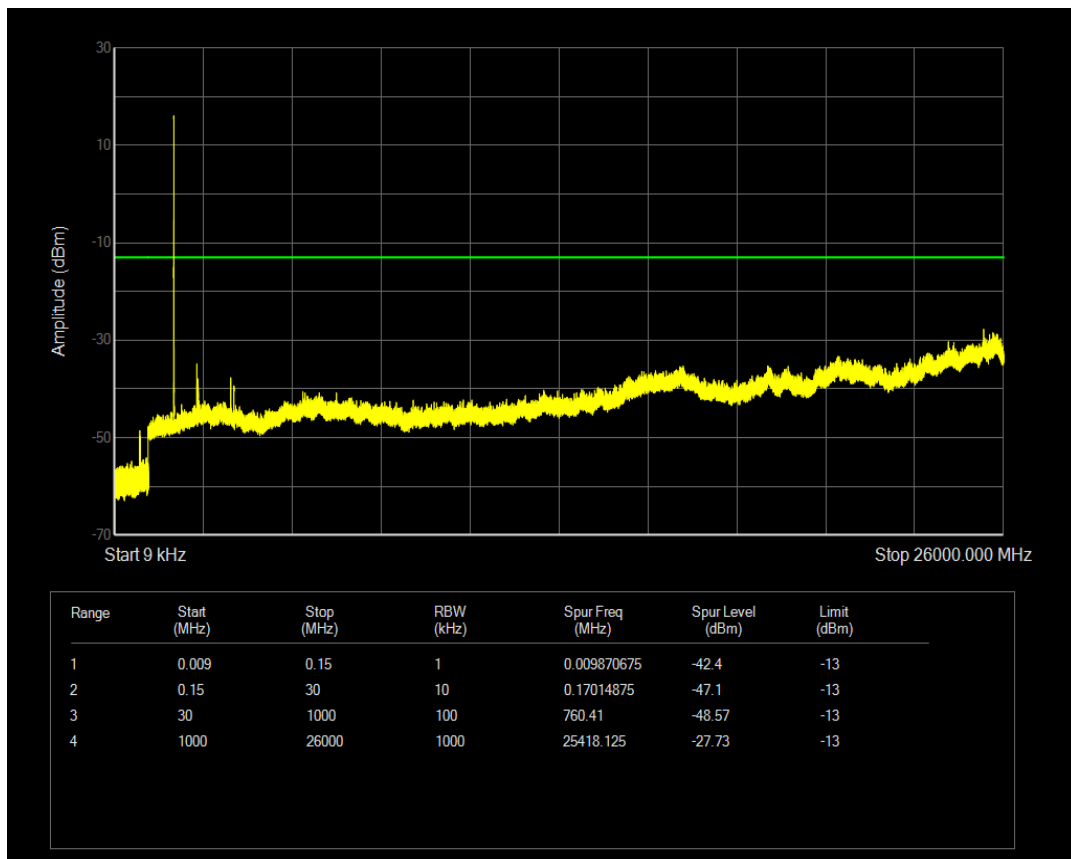
Band4 QPSK BW=3MHz Channel=20385 RB Size=15 Position=#0



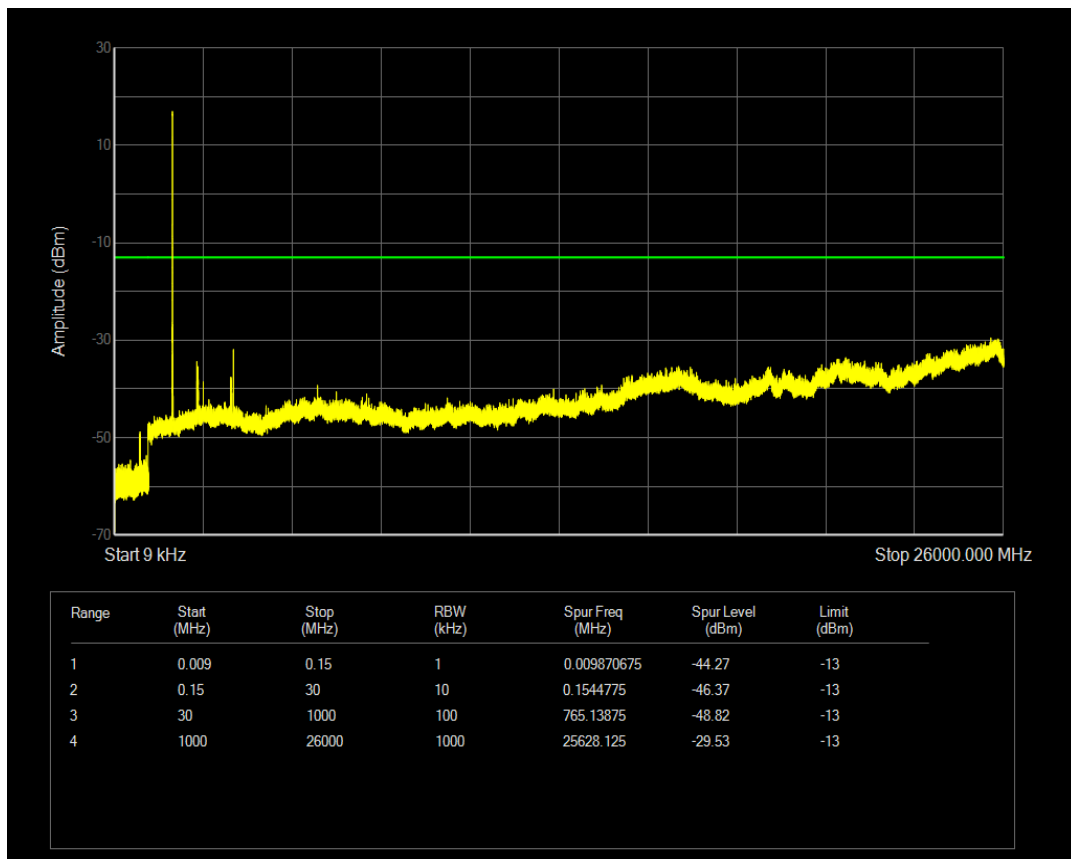
Band4 QAM16 BW=3MHz Channel=19965 RB Size=15 Position=#0



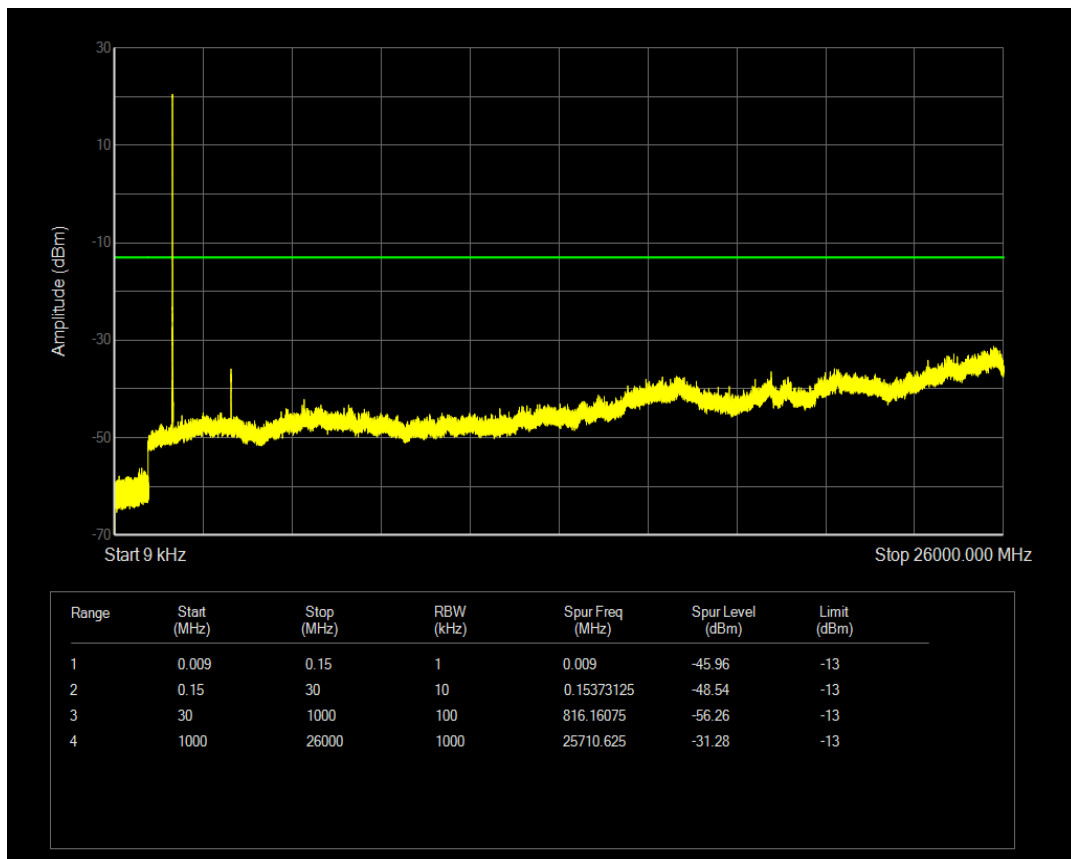
Band4 QAM16 BW=3MHz Channel=20385 RB Size=15 Position=#0



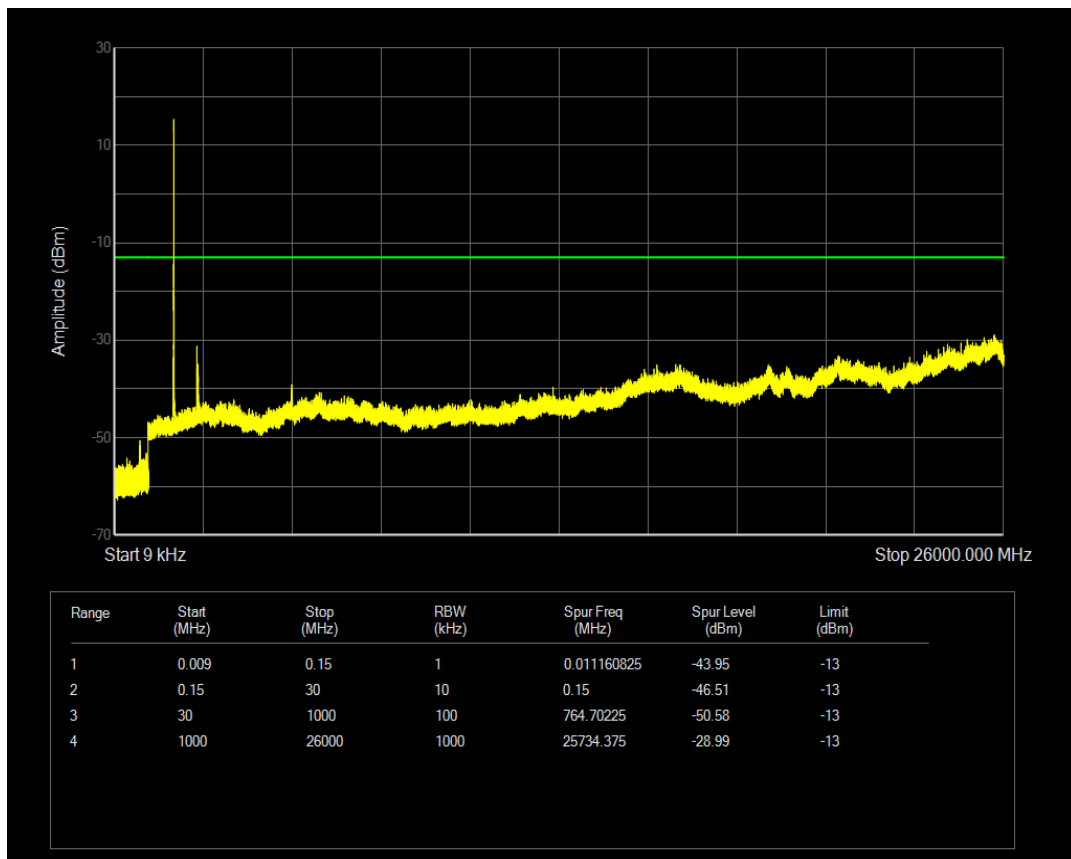
Band4 QPSK BW=5MHz Channel=19975 RB Size=25 Position=#0



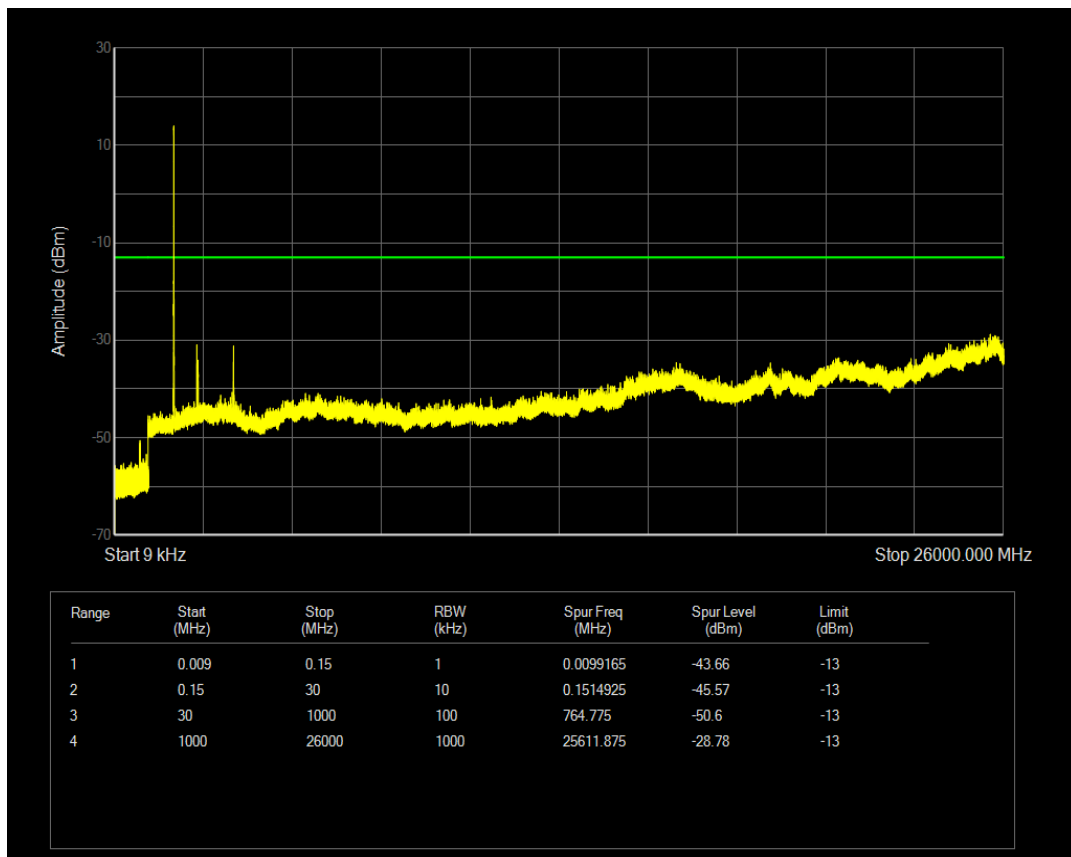
Band4 QAM16 BW=5MHz Channel=19975 RB Size=25 Position=#0



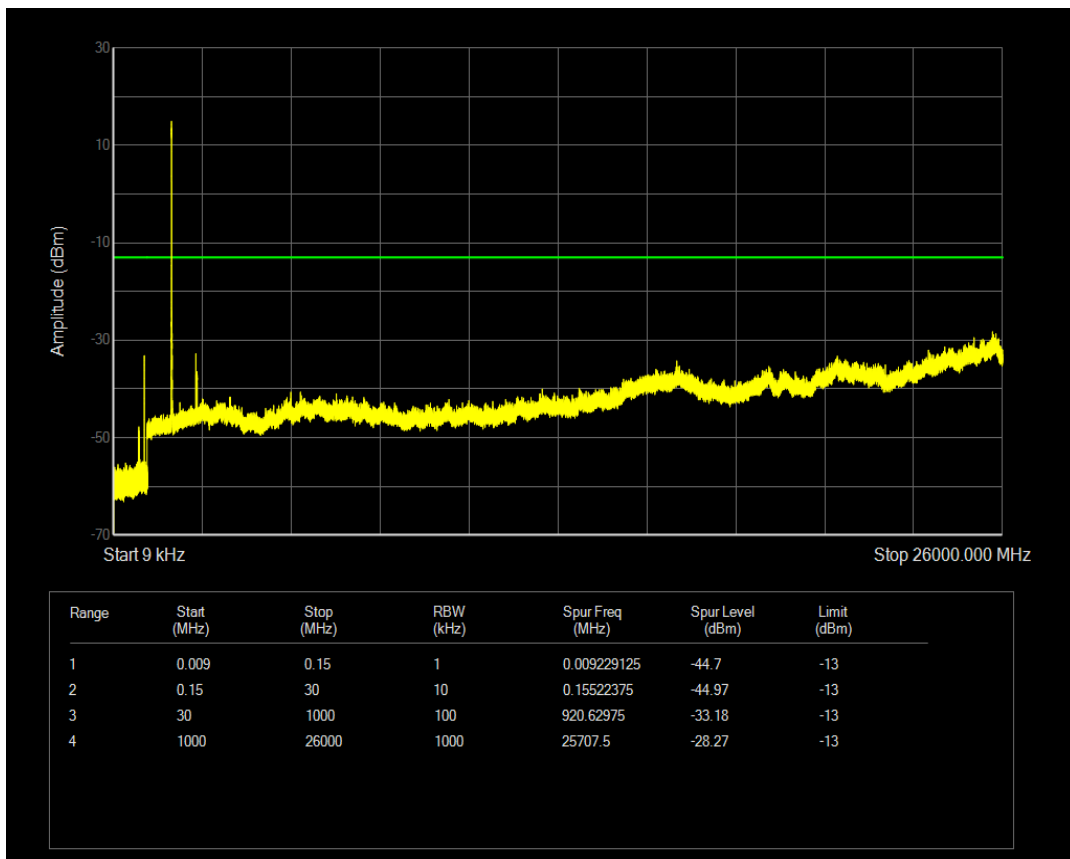
Band4 QPSK BW=5MHz Channel=20375 RB Size=25 Position=#0



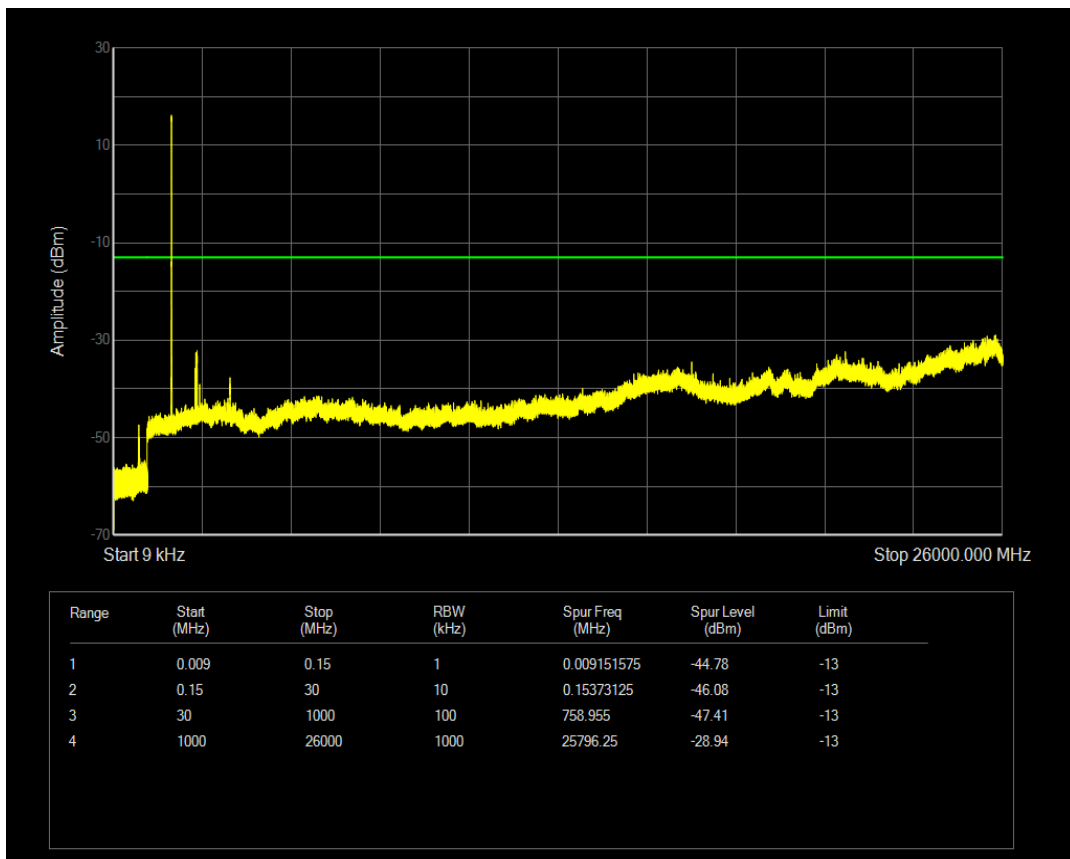
Band4 QAM16 BW=5MHz Channel=20375 RB Size=25 Position=#0



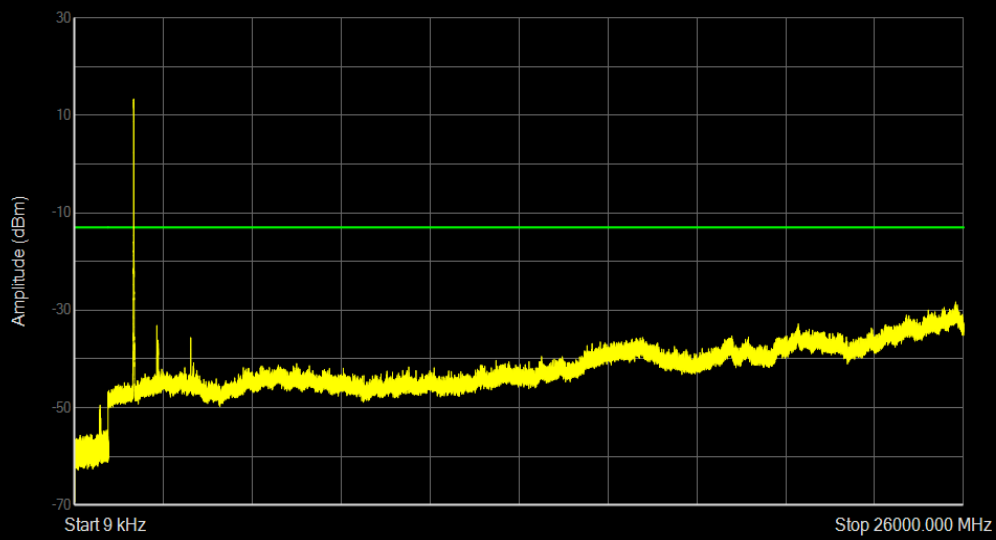
Band4 QPSK BW=10MHz Channel=20000 RB Size=50 Position=#0



Band4 QAM16 BW=10MHz Channel=20000 RB Size=27 Position=#0

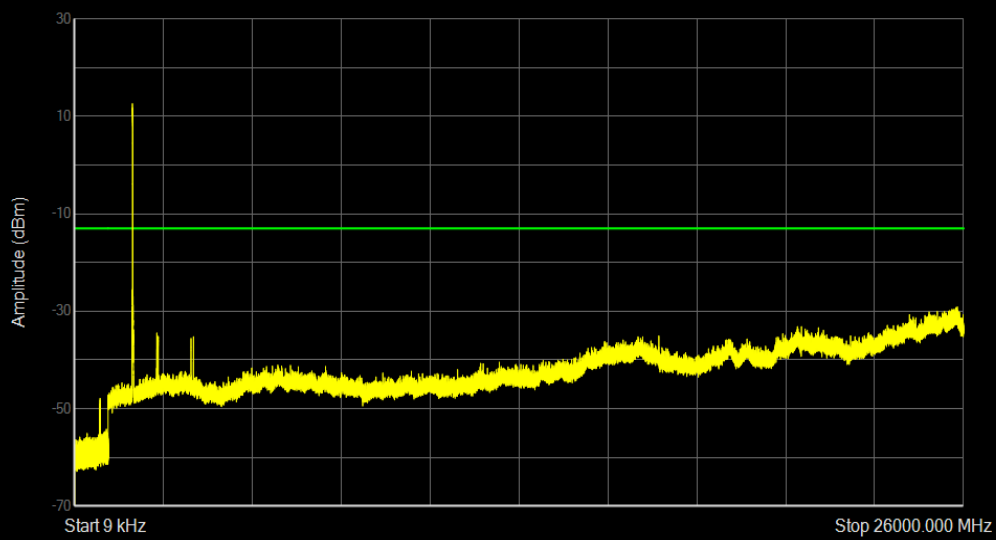


Band4 QPSK BW=10MHz Channel=20350 RB Size=50 Position=#0



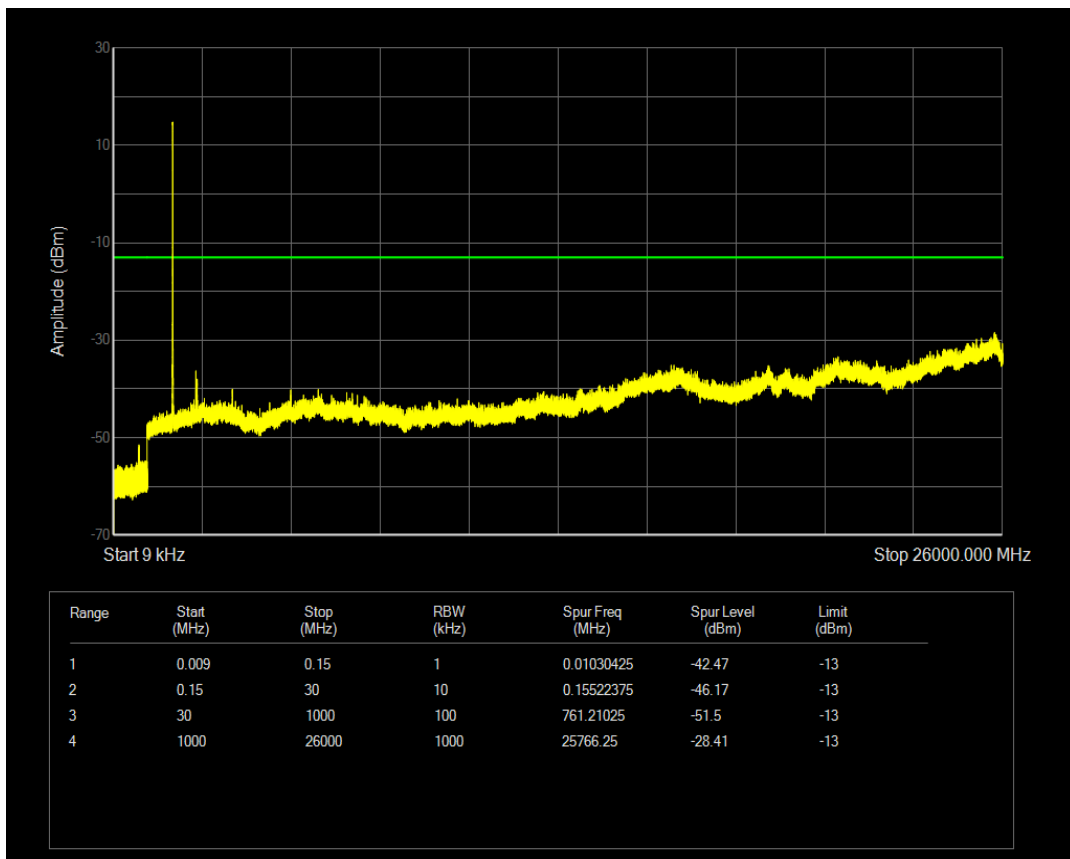
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009	-42.83	-13
2	0.15	30	10	0.15	-43.05	-13
3	30	1000	100	768.09725	-49.53	-13
4	1000	26000	1000	25770	-28.31	-13

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

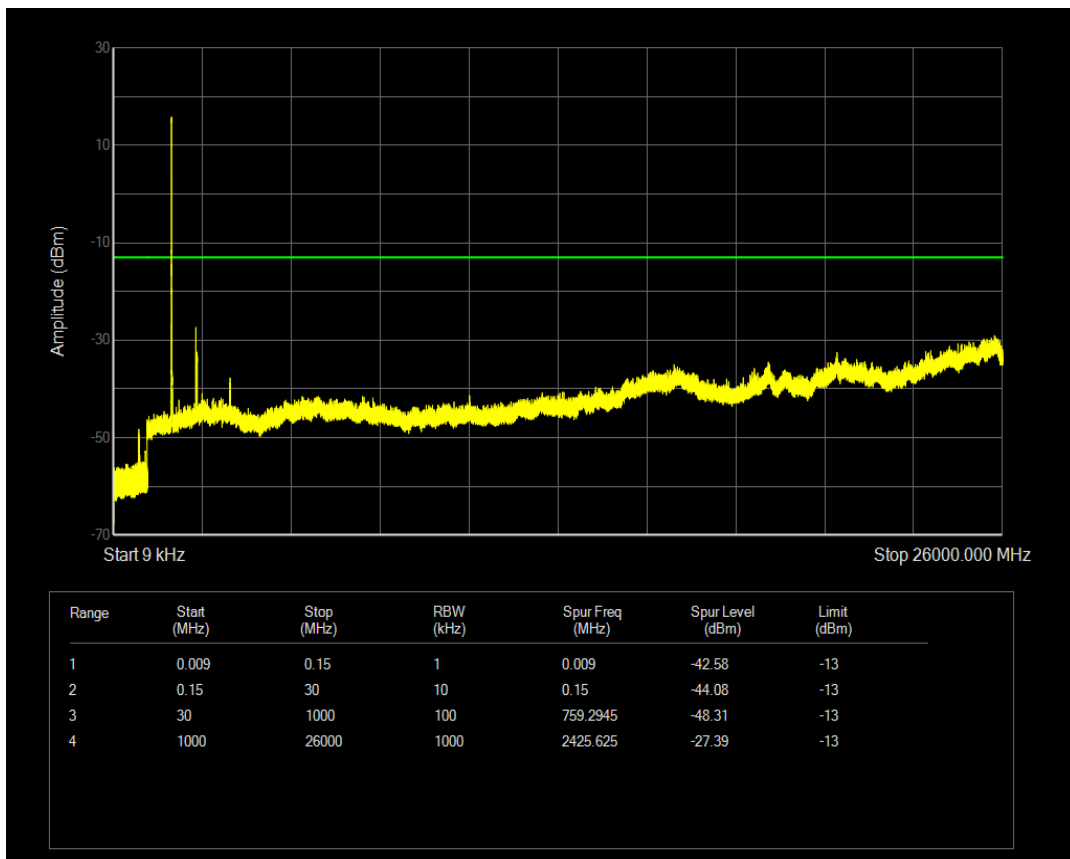


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.010216125	-44.36	-13
2	0.15	30	10	0.158955	-46.97	-13
3	30	1000	100	766.06025	-47.89	-13
4	1000	26000	1000	25316.25	-29.11	-13

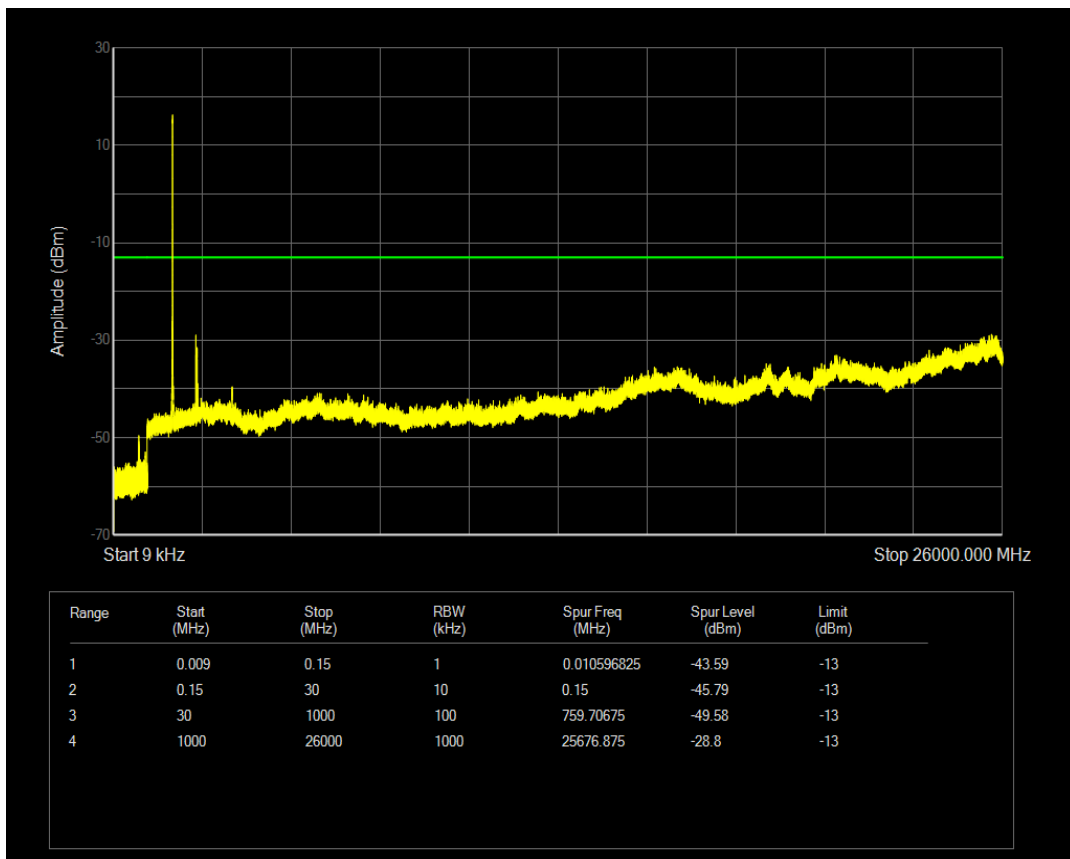
Band4 QAM16 BW=10MHz Channel=20350 RB Size=27 Position=#0



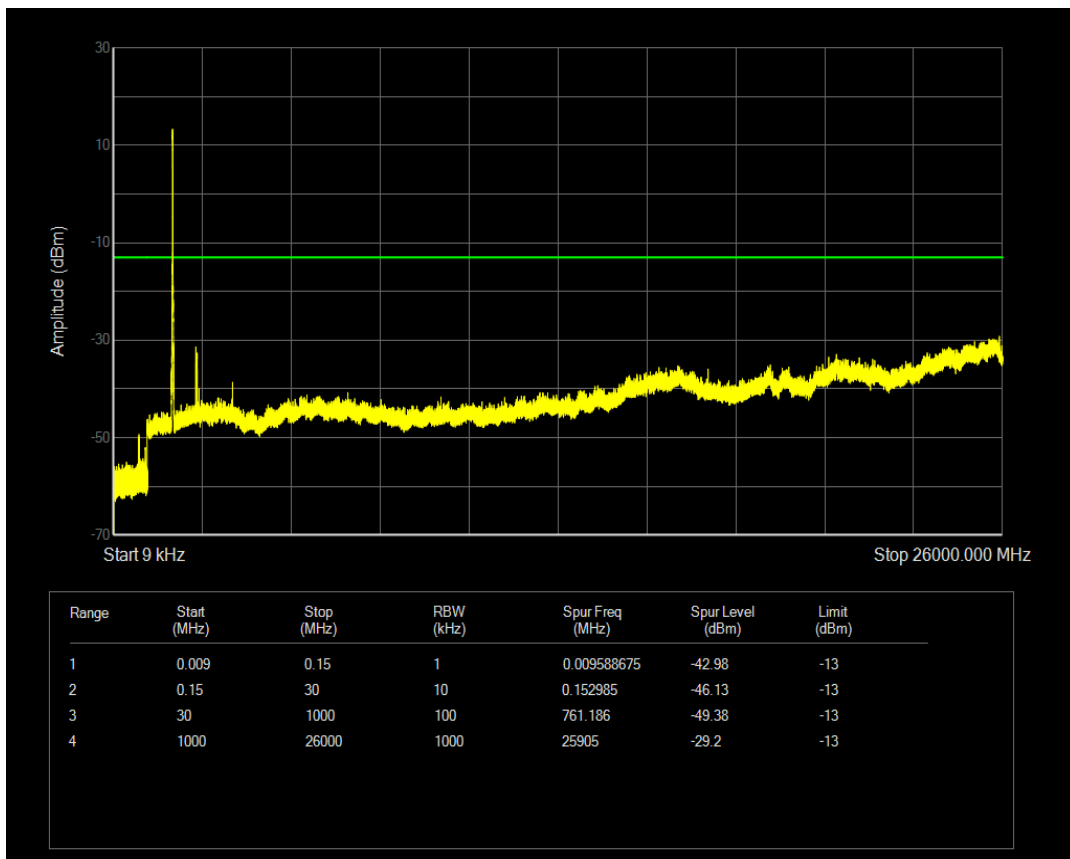
Band4 QAM16 BW=15MHz Channel=20025 RB Size=27 Position=#0



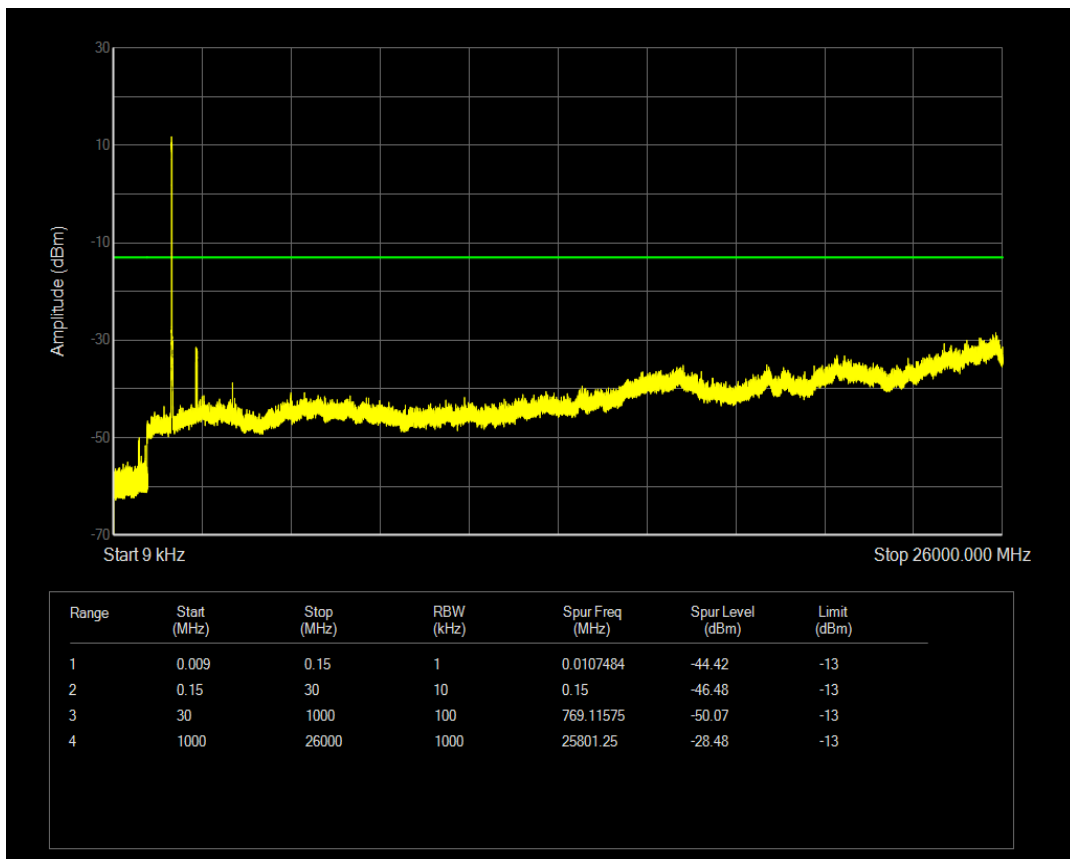
Band4 QAM16 BW=15MHz Channel=20325 RB Size=27 Position=#0



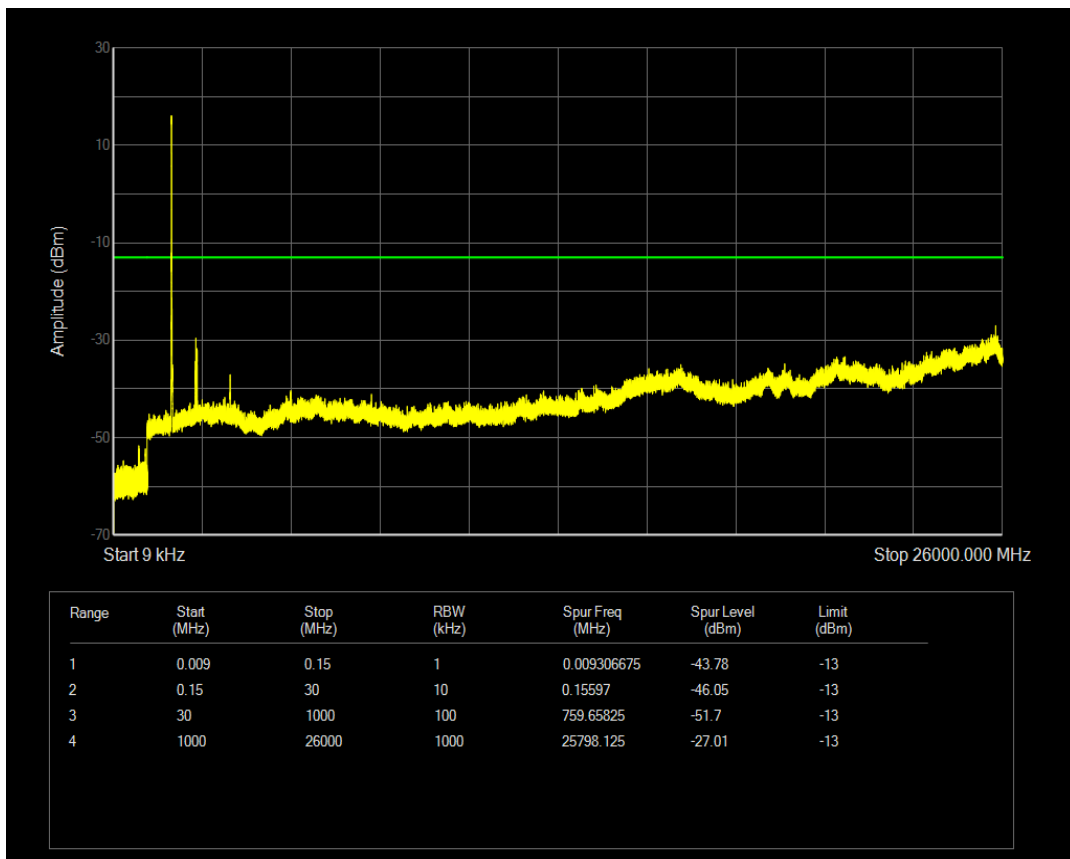
Band4 QPSK BW=15MHz Channel=20325 RB Size=75 Position=#0



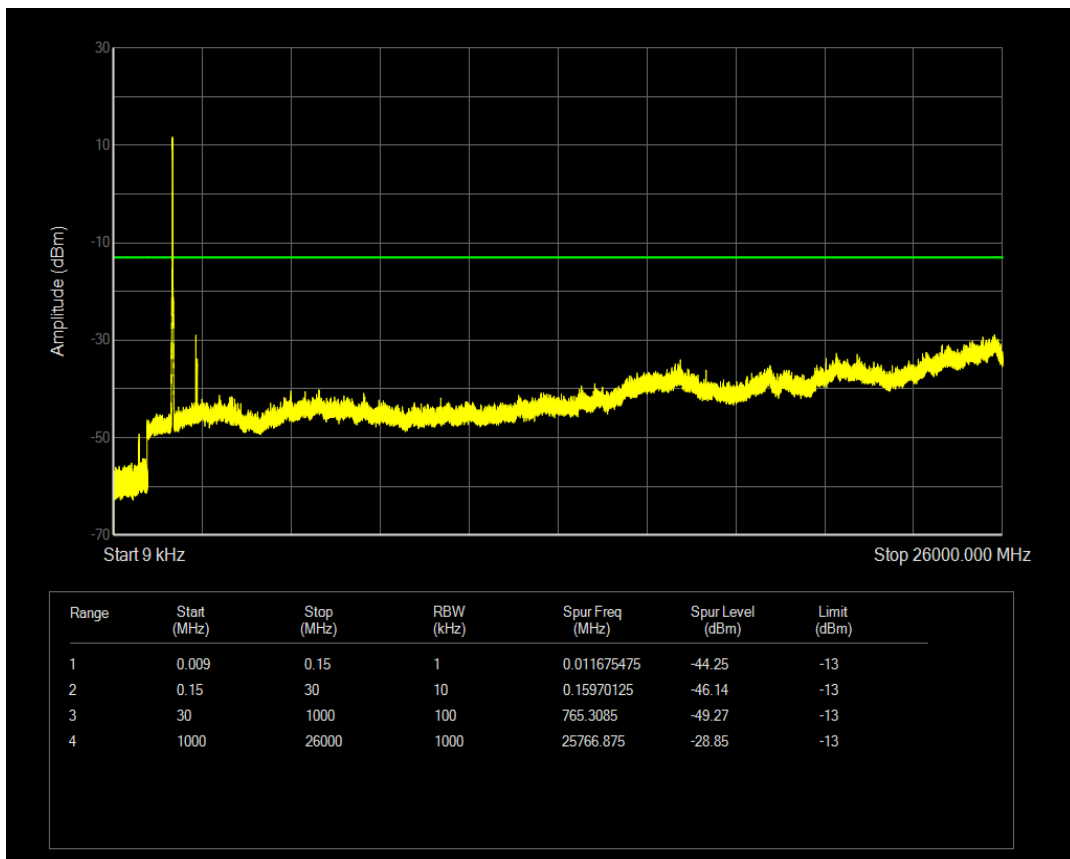
Band4 QPSK BW=20MHz Channel=20050 RB Size=100 Position=#0



Band4 QAM16 BW=20MHz Channel=20050 RB Size=27 Position=#0



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



Band4 QAM16 BW=20MHz Channel=20300 RB Size=27 Position=#0

