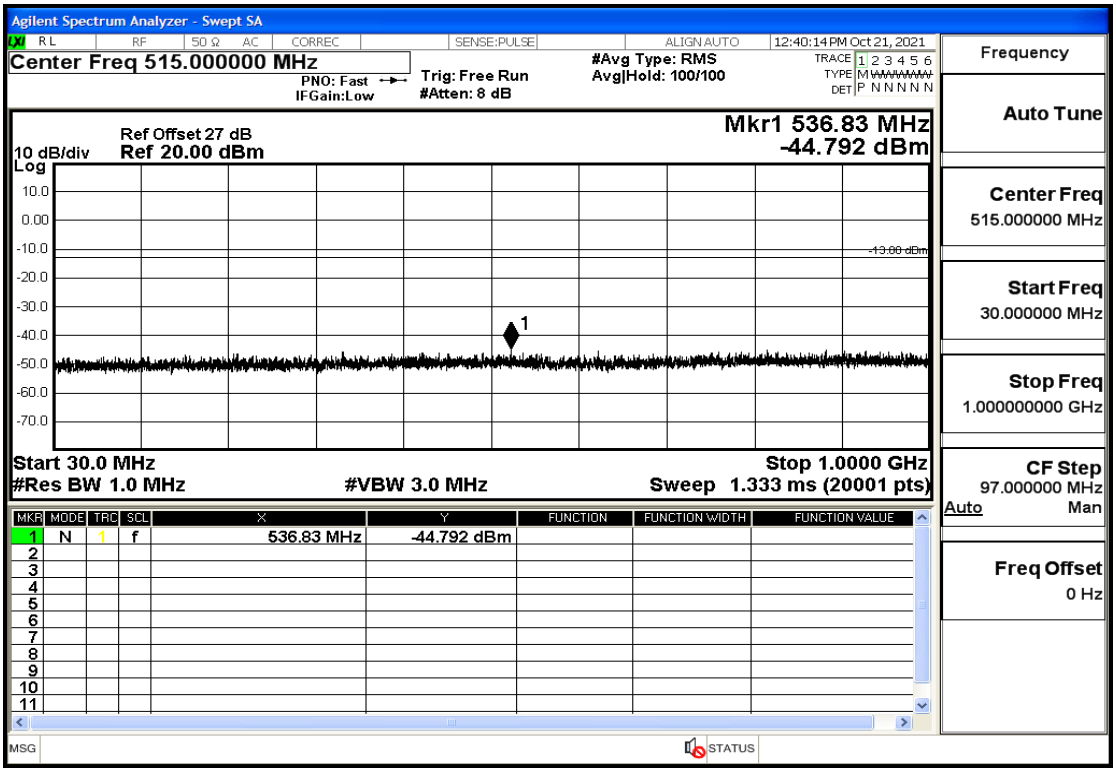
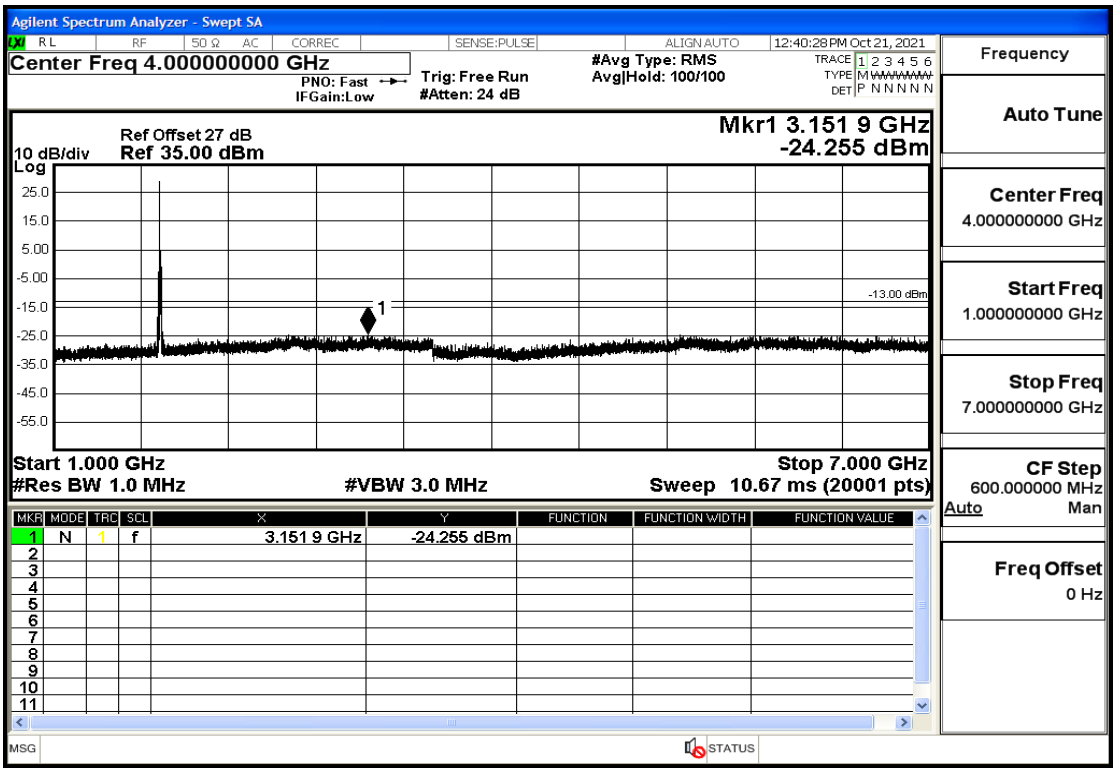
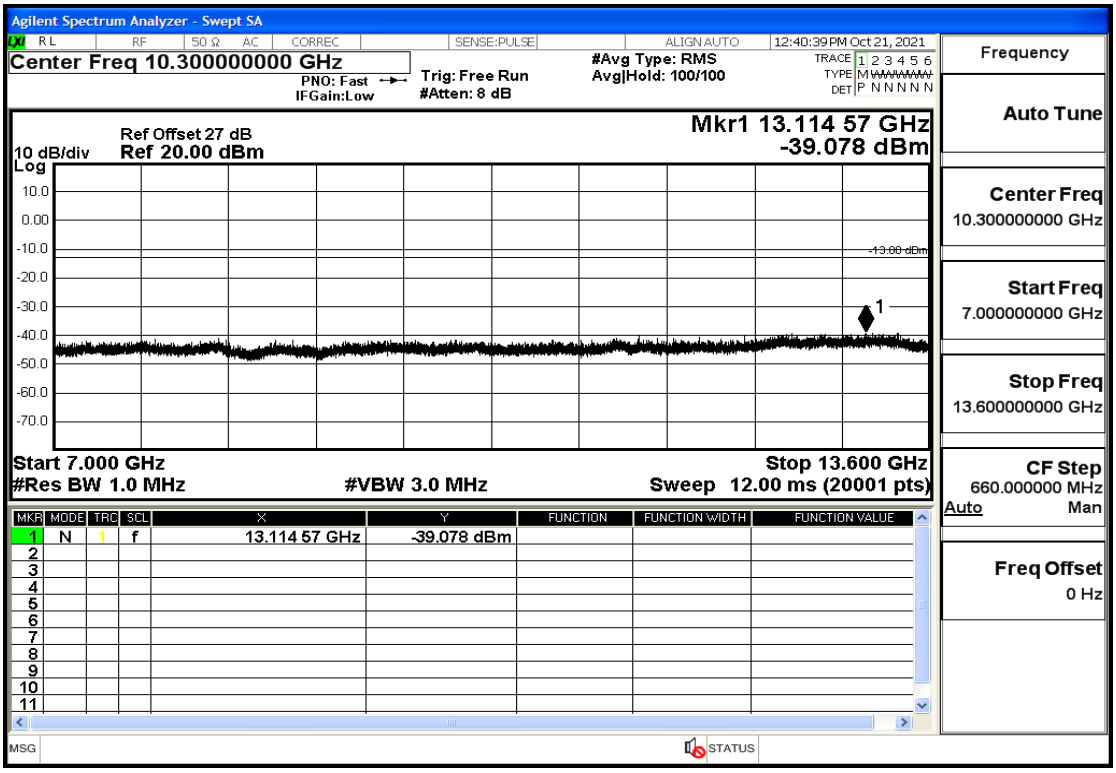
OB4-15-1732.5-QPSK-1#LOW@30mHz-1GHz@Pass



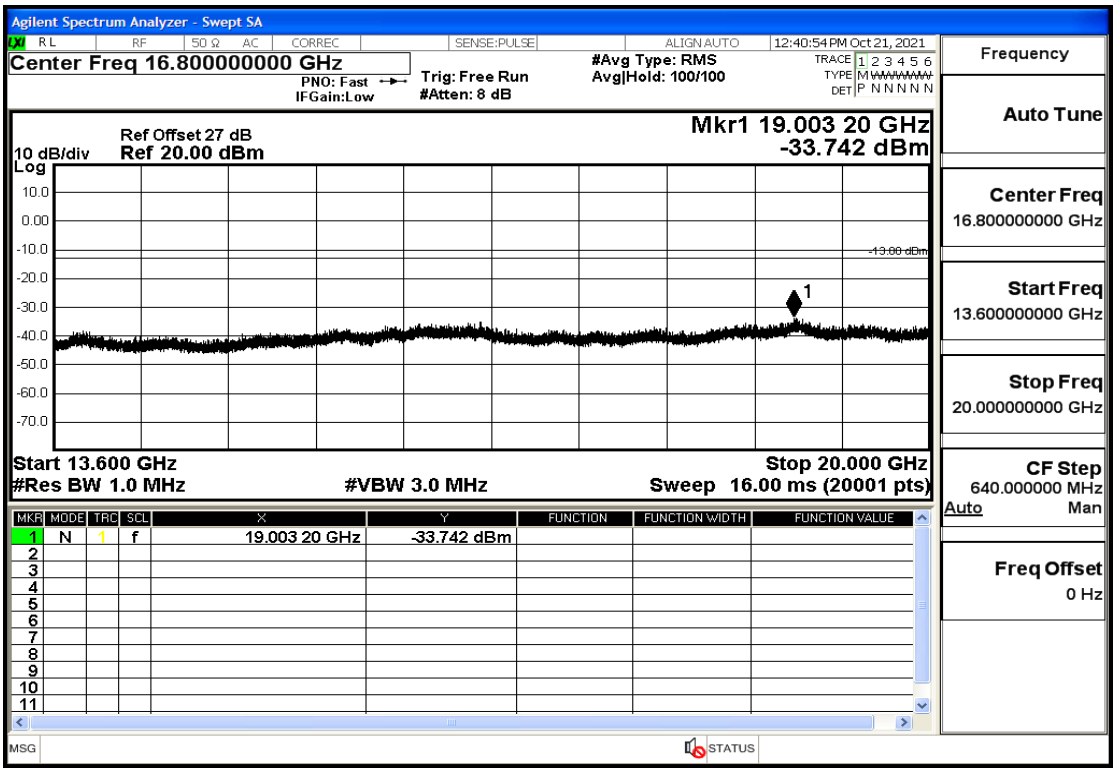
OB4-15-1732.5-QPSK-1#LOW@1GHz-7GHz@Pass



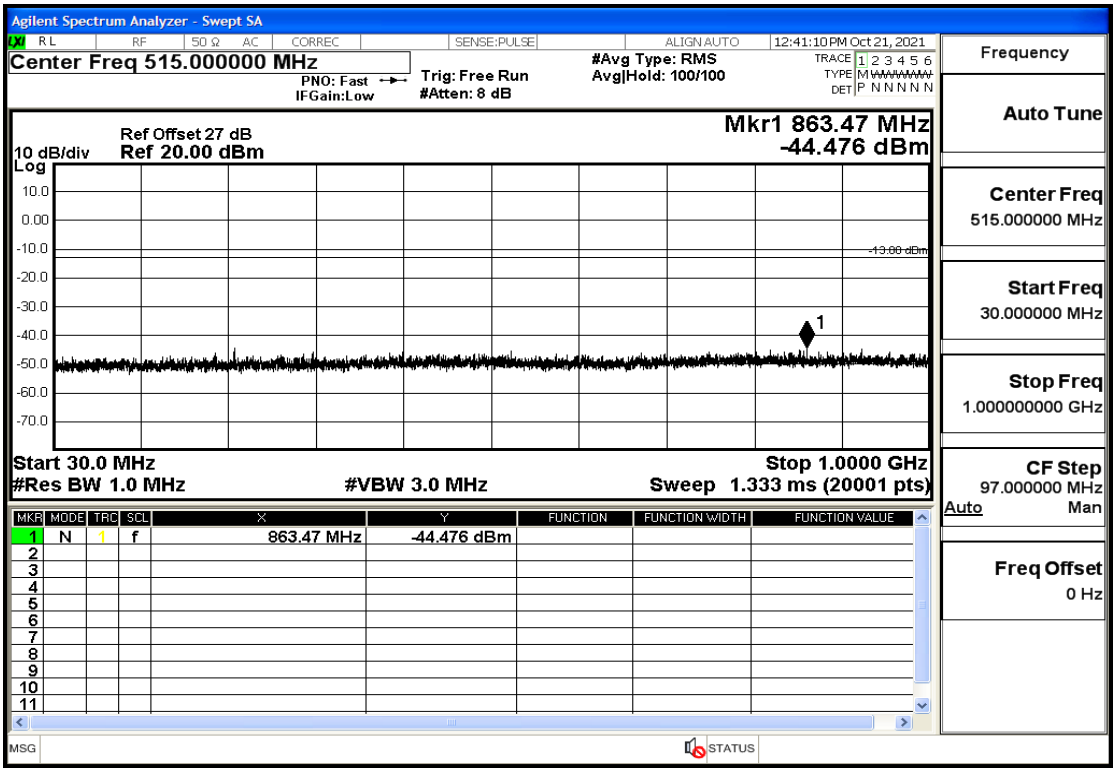
OB4-15-1732.5-QPSK-1#LOW@7GHz-13.6GHz@Pass



OB4-15-1732.5-QPSK-1#LOW@13.6GHz-20GHz@Pass



OB4-15-1732.5-QPSK-1#HIGH@30mHz-1GHz@Pass



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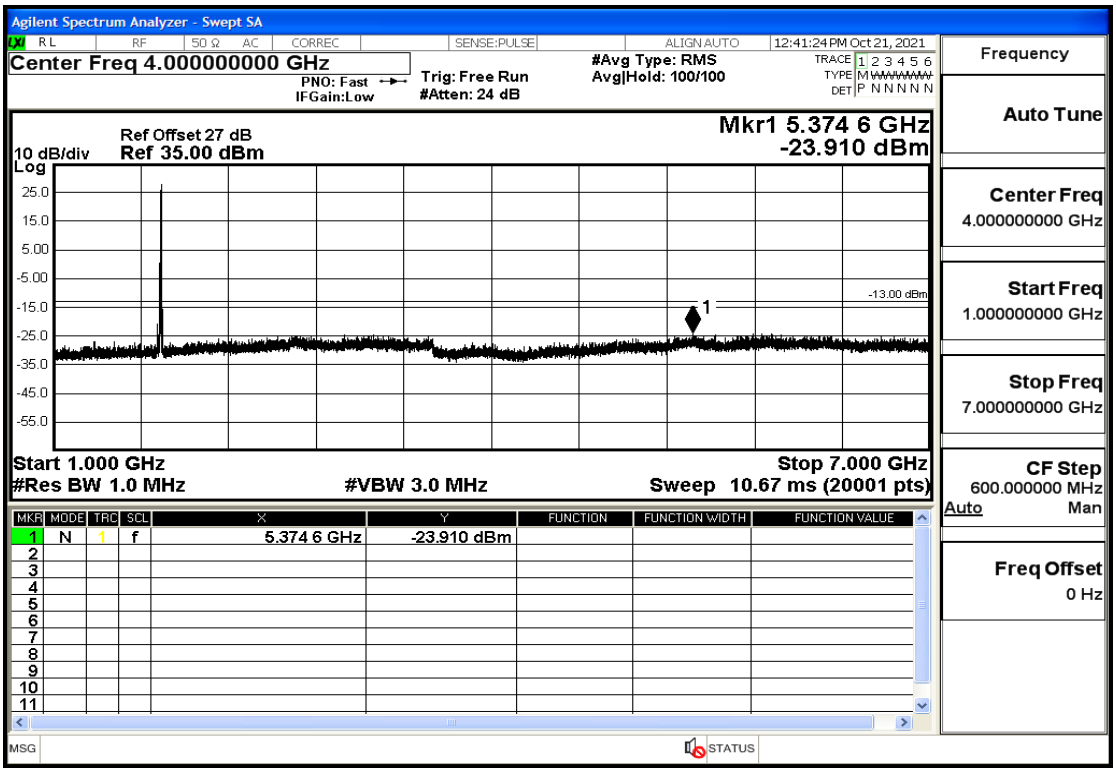
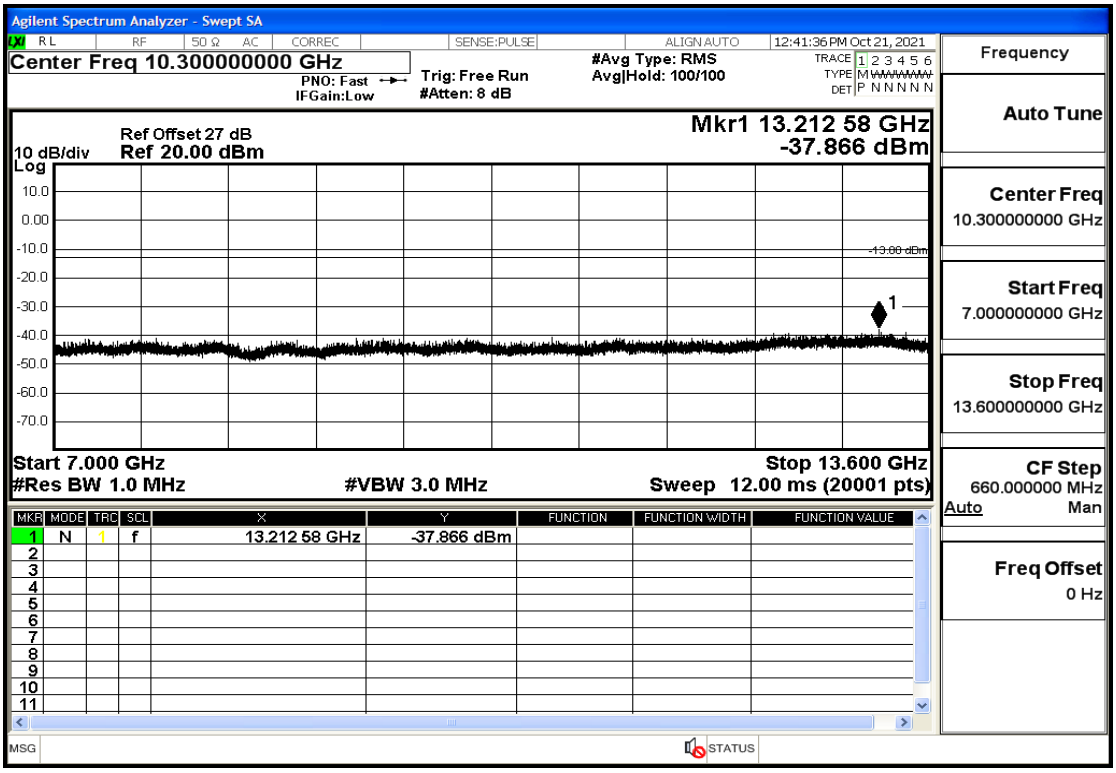


OB4-15-1732.5-QPSK-1#HIGH@7GHz-13.6GHz@Pass



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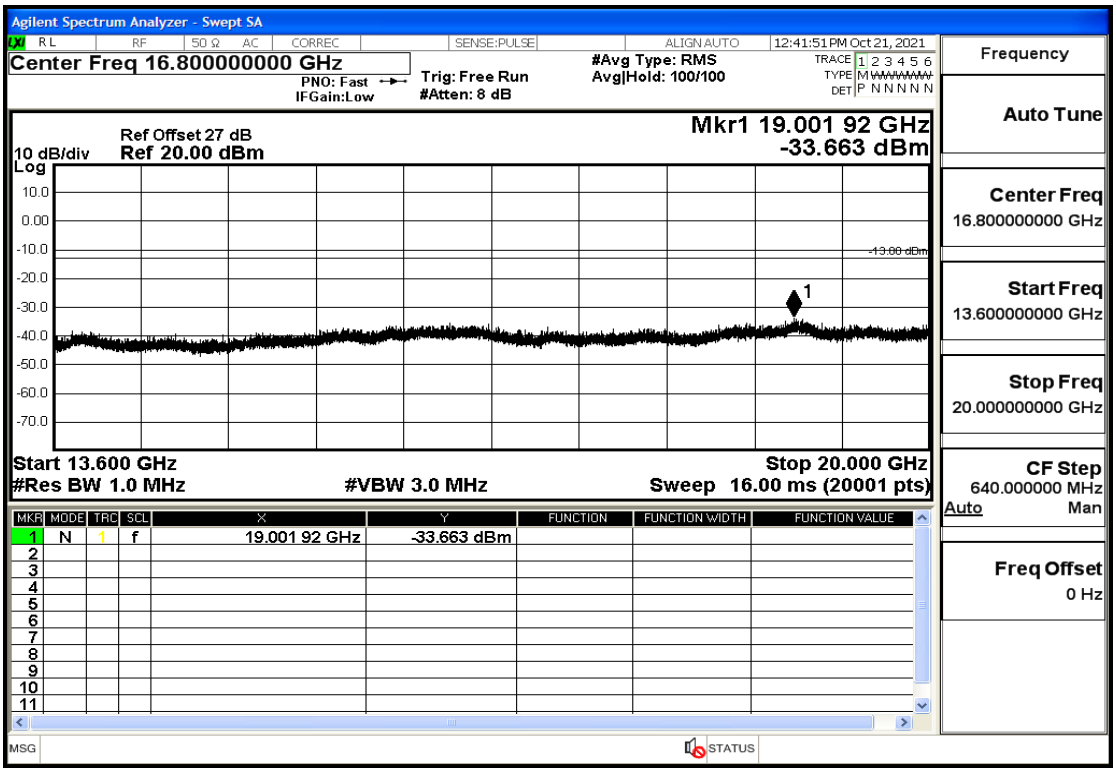
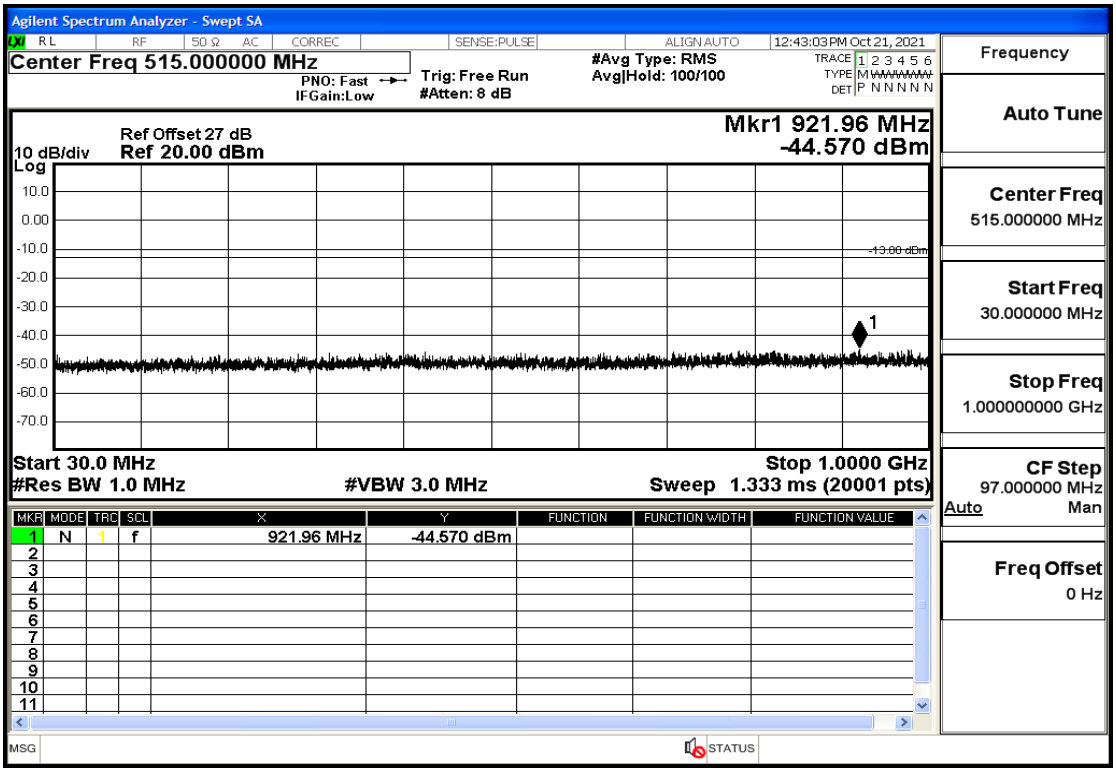
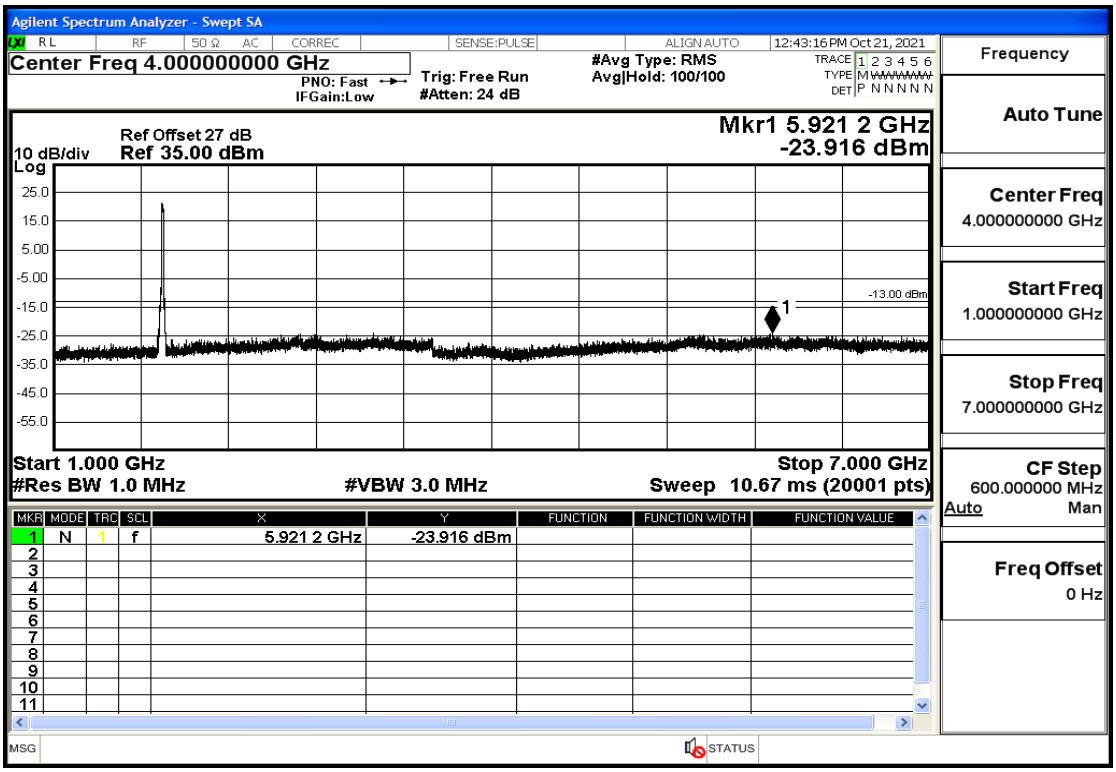


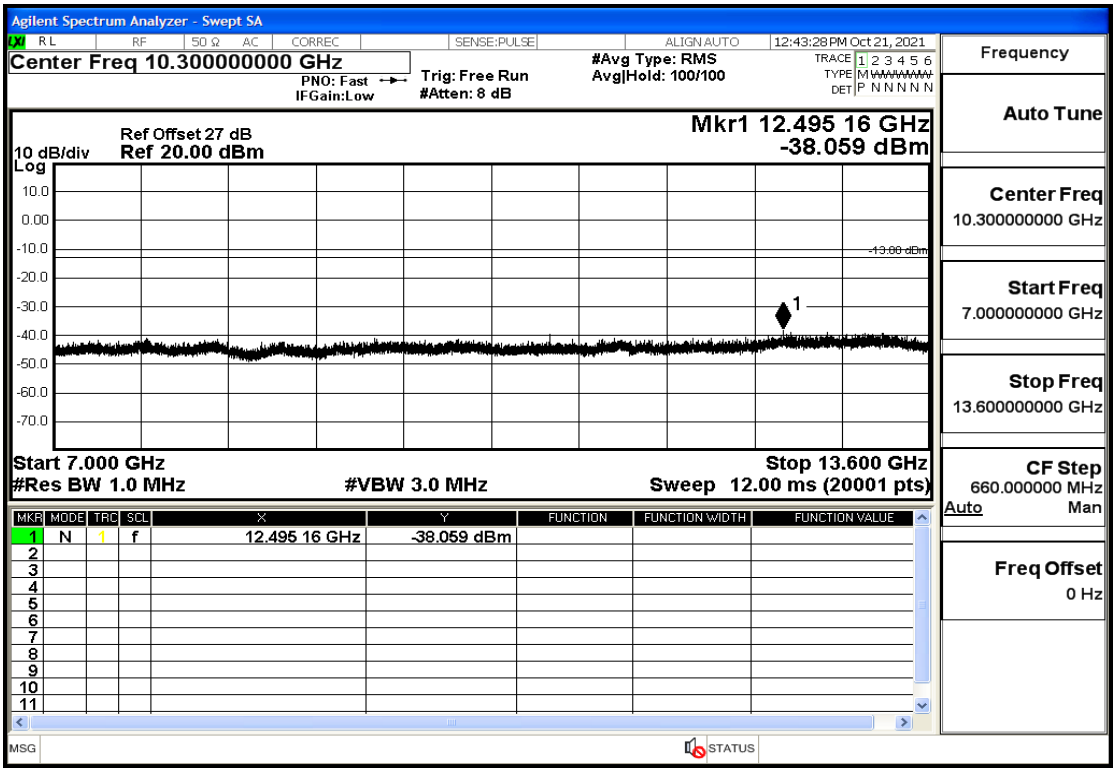
OB4-15-1747.5-QPSK-75#LOW@30mHz-1GHz@Pass



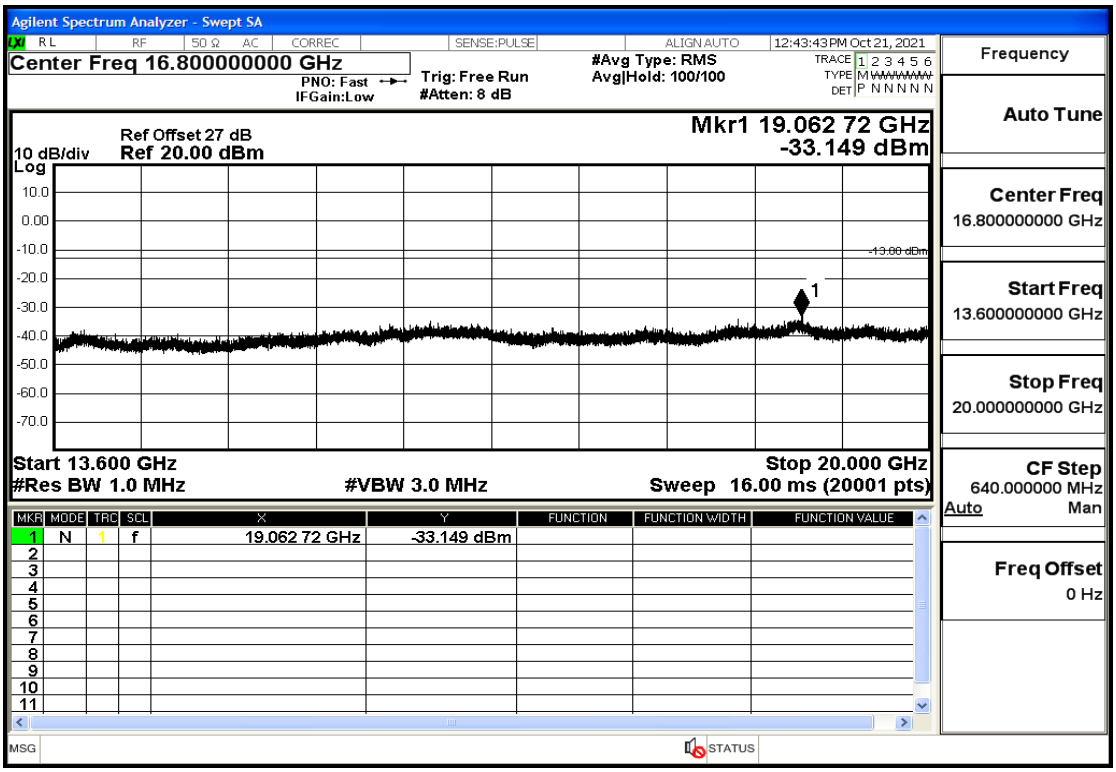
OB4-15-1747.5-QPSK-75#LOW@1GHz-7GHz@Pass



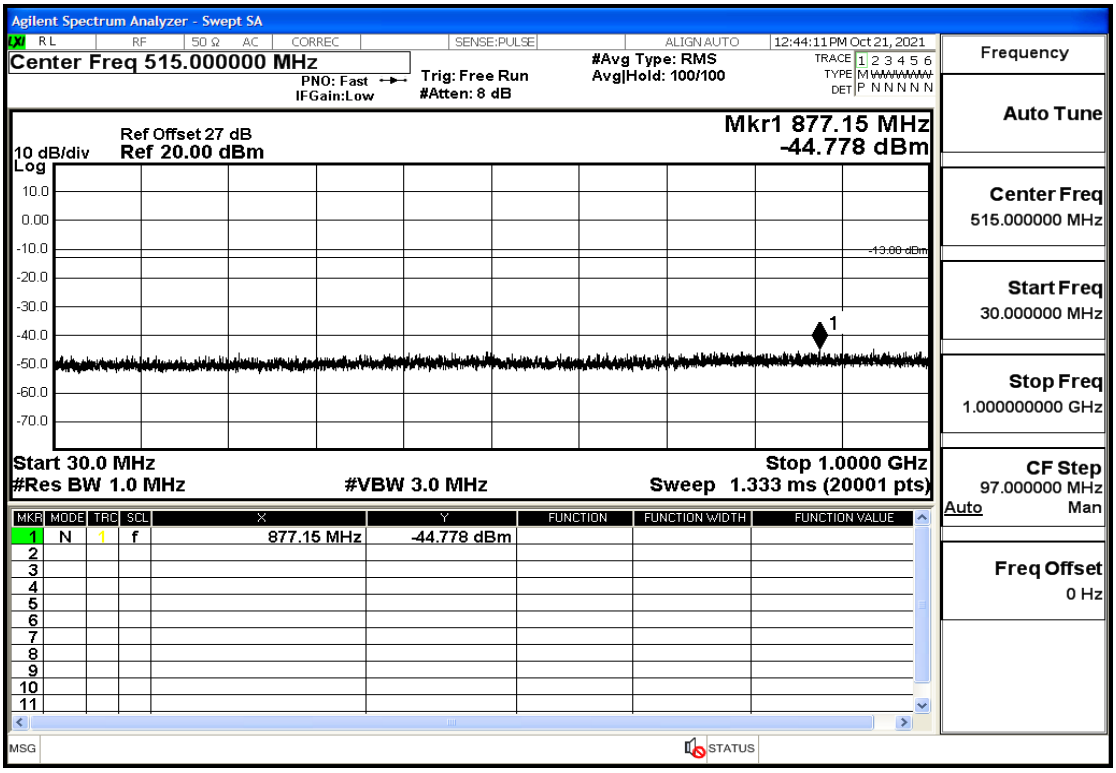
OB4-15-1747.5-QPSK-75#LOW@7GHz-13.6GHz@Pass



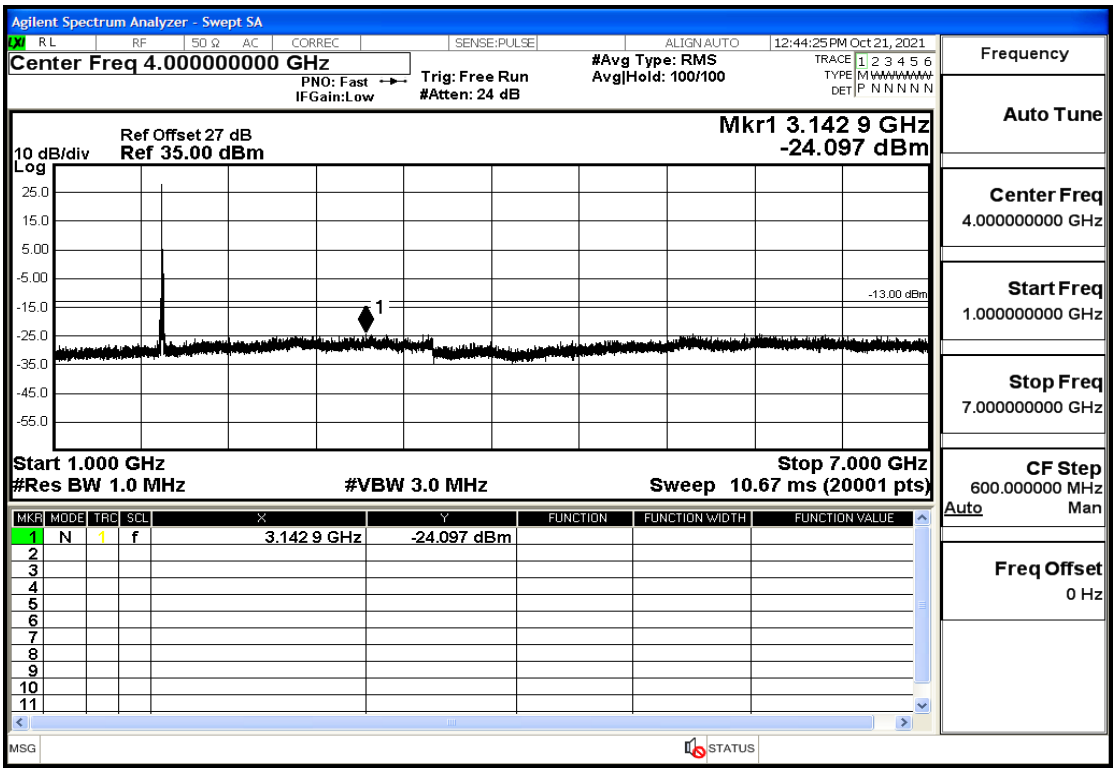
OB4-15-1747.5-QPSK-75#LOW@13.6GHz-20GHz@Pass



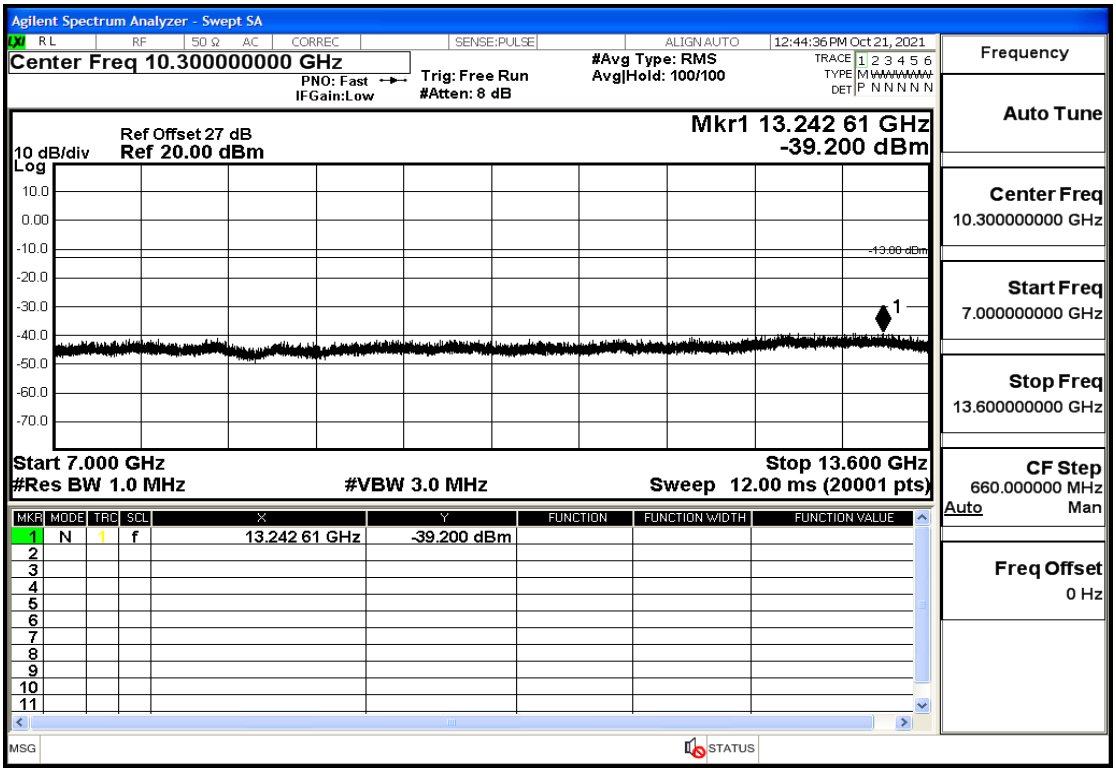
OB4-15-1747.5-QPSK-1#LOW@30mHz-1GHz@Pass



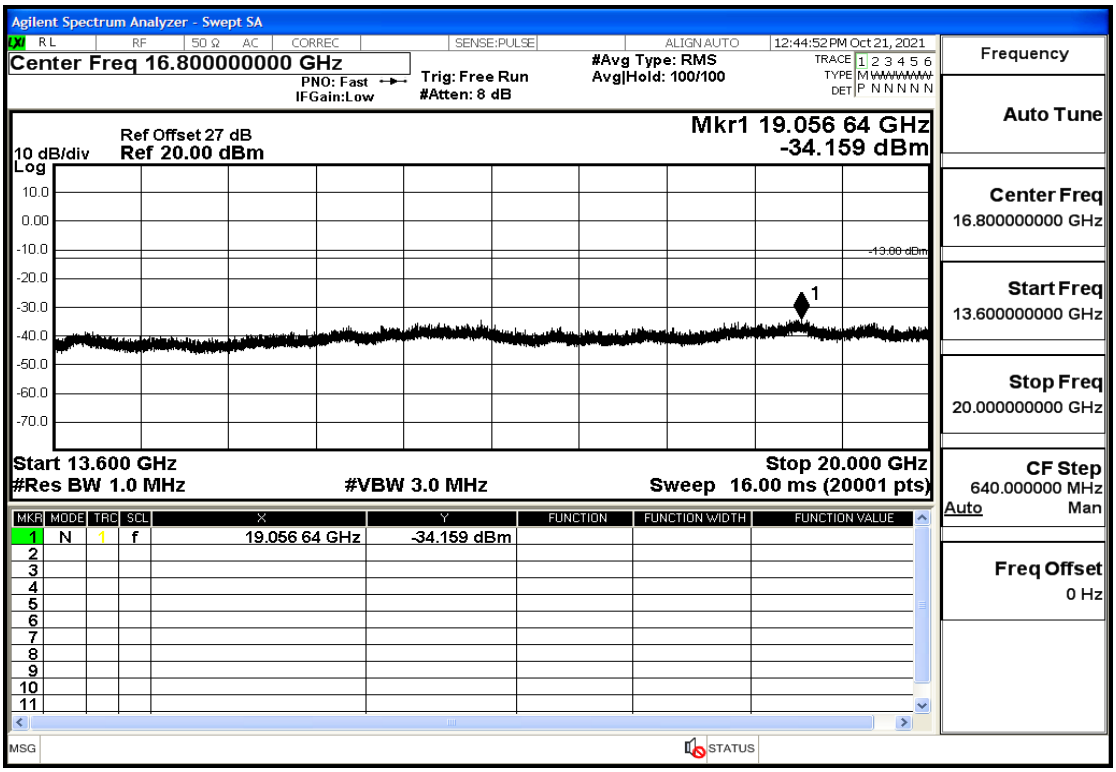
OB4-15-1747.5-QPSK-1#LOW@1GHz-7GHz@Pass



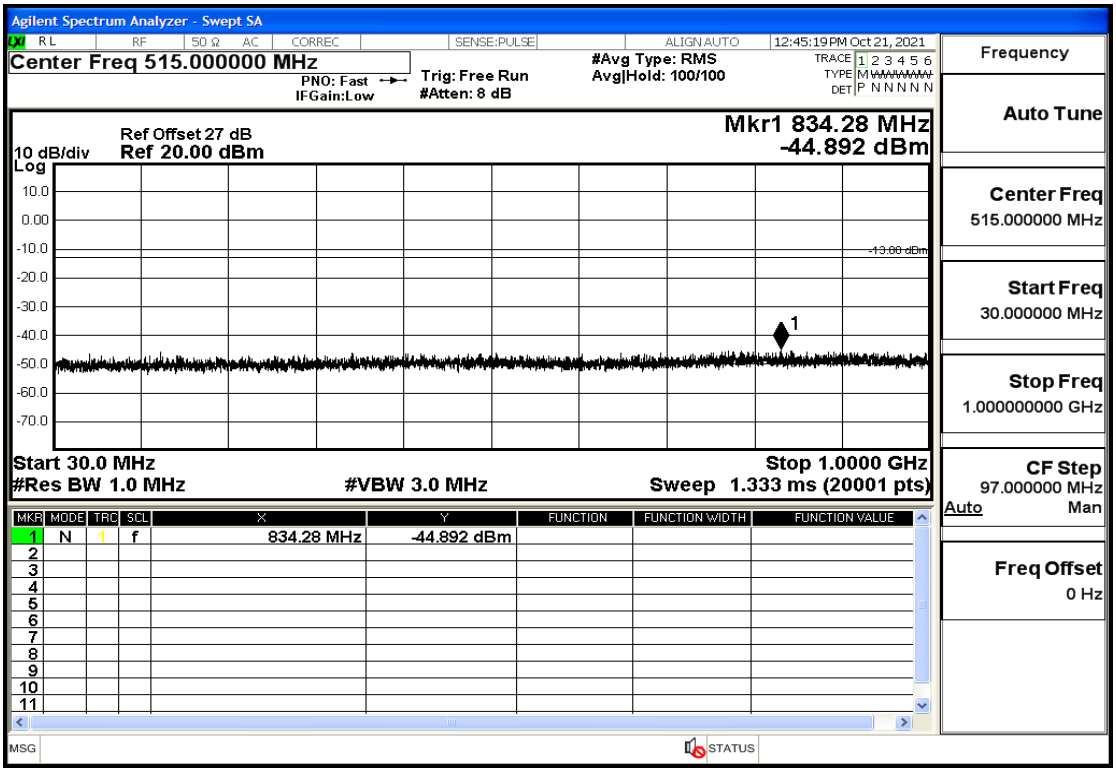
OB4-15-1747.5-QPSK-1#LOW@7GHz-13.6GHz@Pass



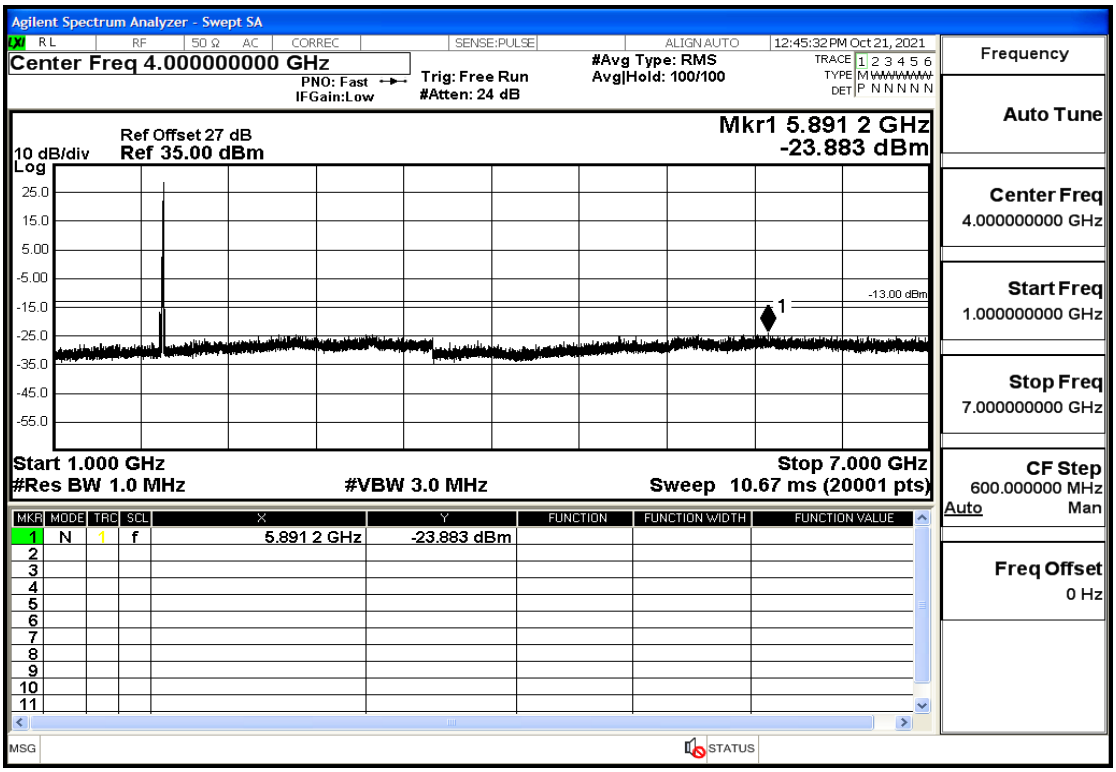
OB4-15-1747.5-QPSK-1#LOW@13.6GHz-20GHz@Pass



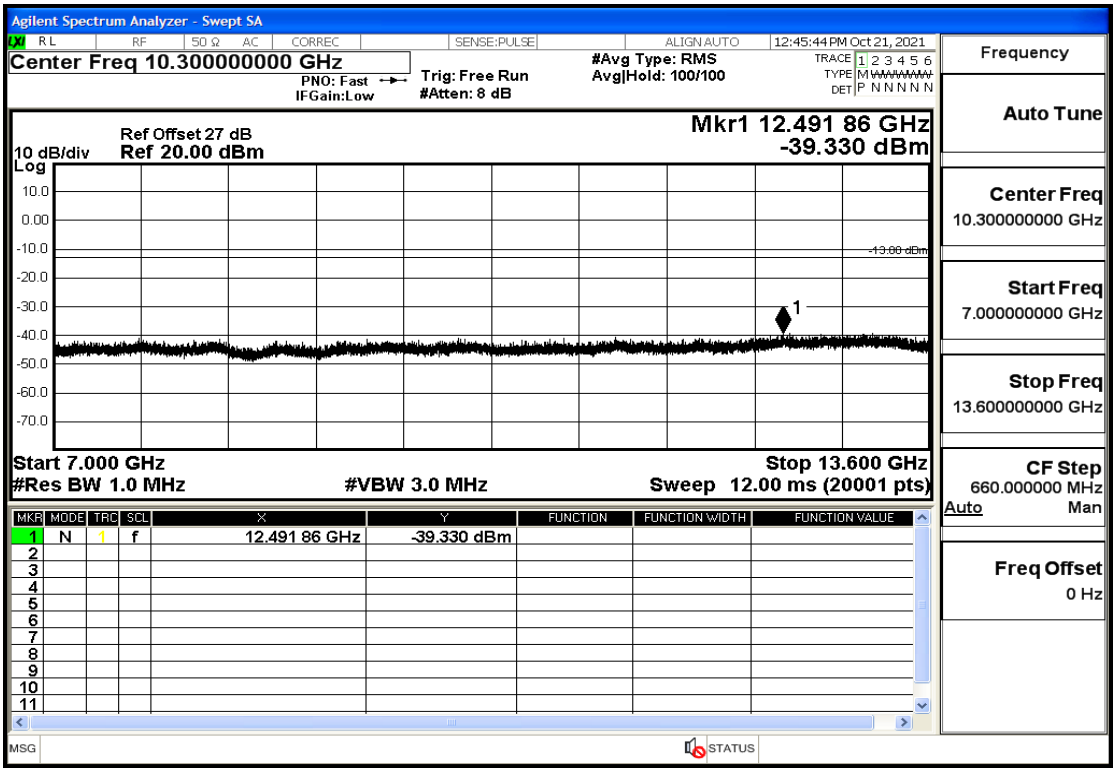
OB4-15-1747.5-QPSK-1#HIGH@30mHz-1GHz@Pass



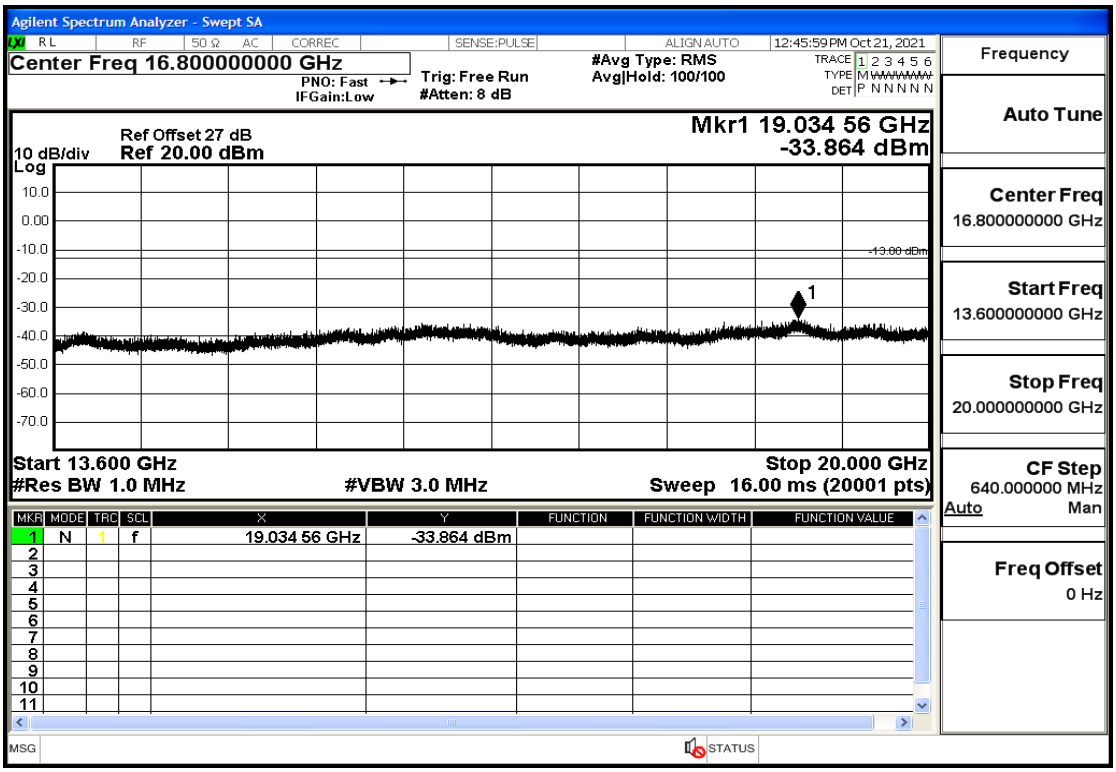
OB4-15-1747.5-QPSK-1#HIGH@1GHz-7GHz@Pass



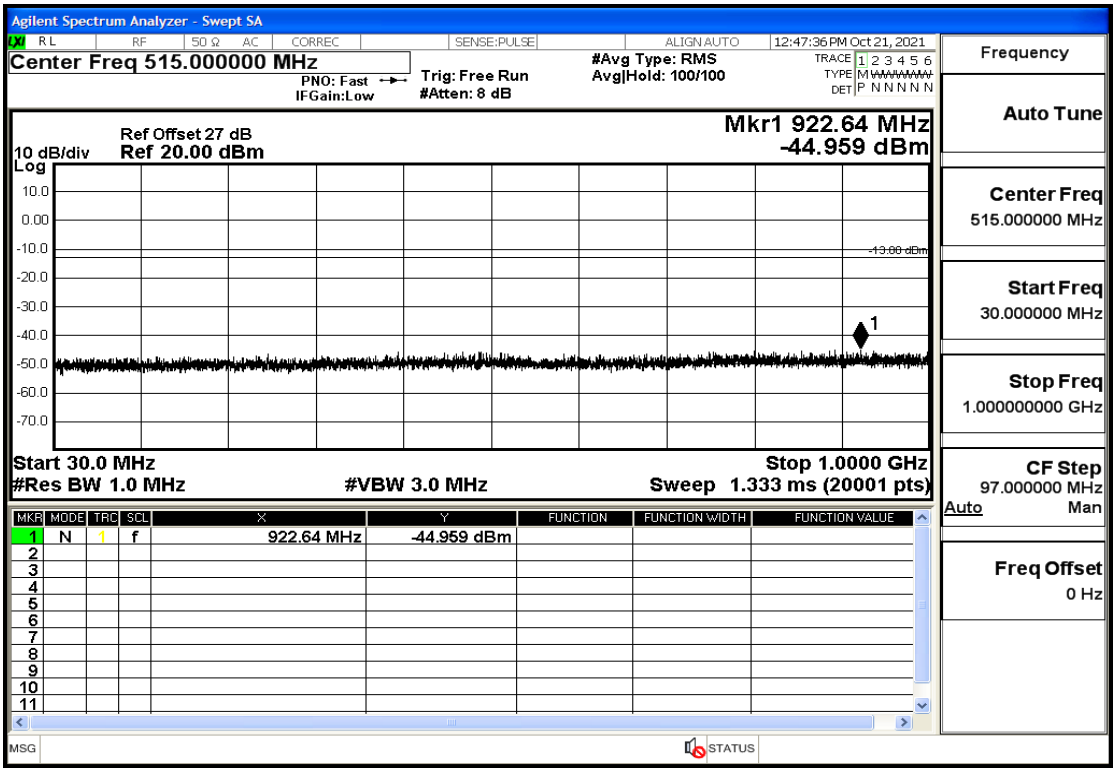
OB4-15-1747.5-QPSK-1#HIGH@7GHz-13.6GHz@Pass



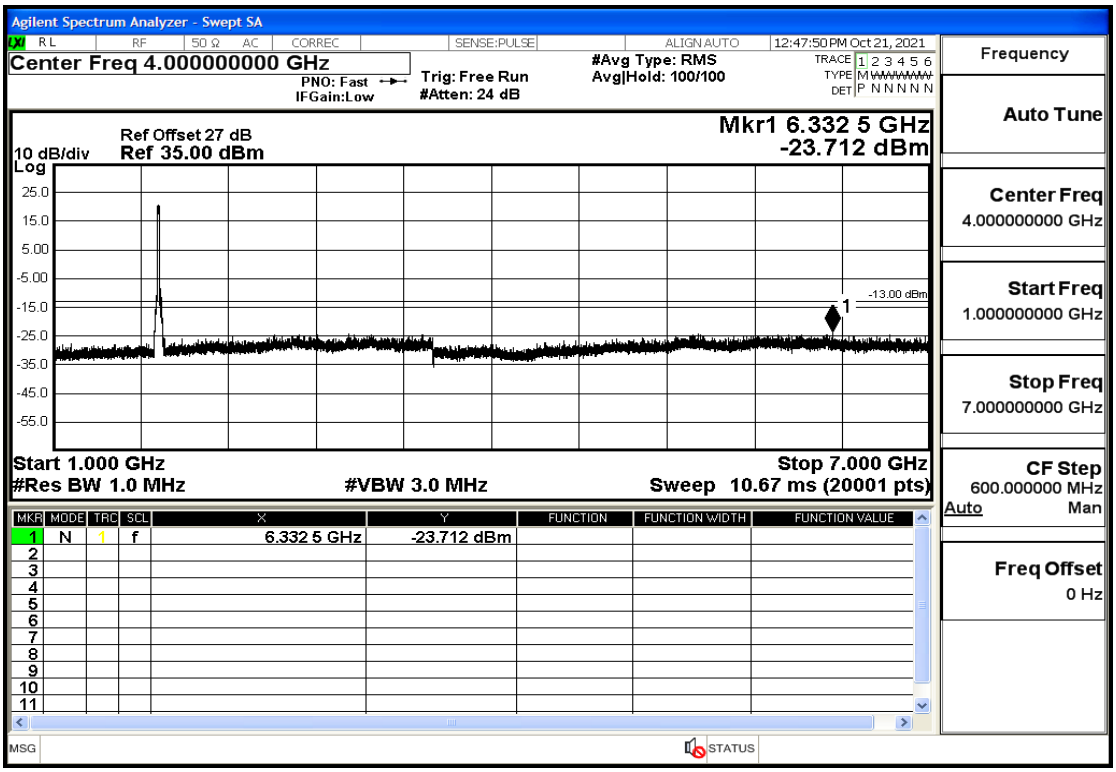
OB4-15-1747.5-QPSK-1#HIGH@13.6GHz-20GHz@Pass



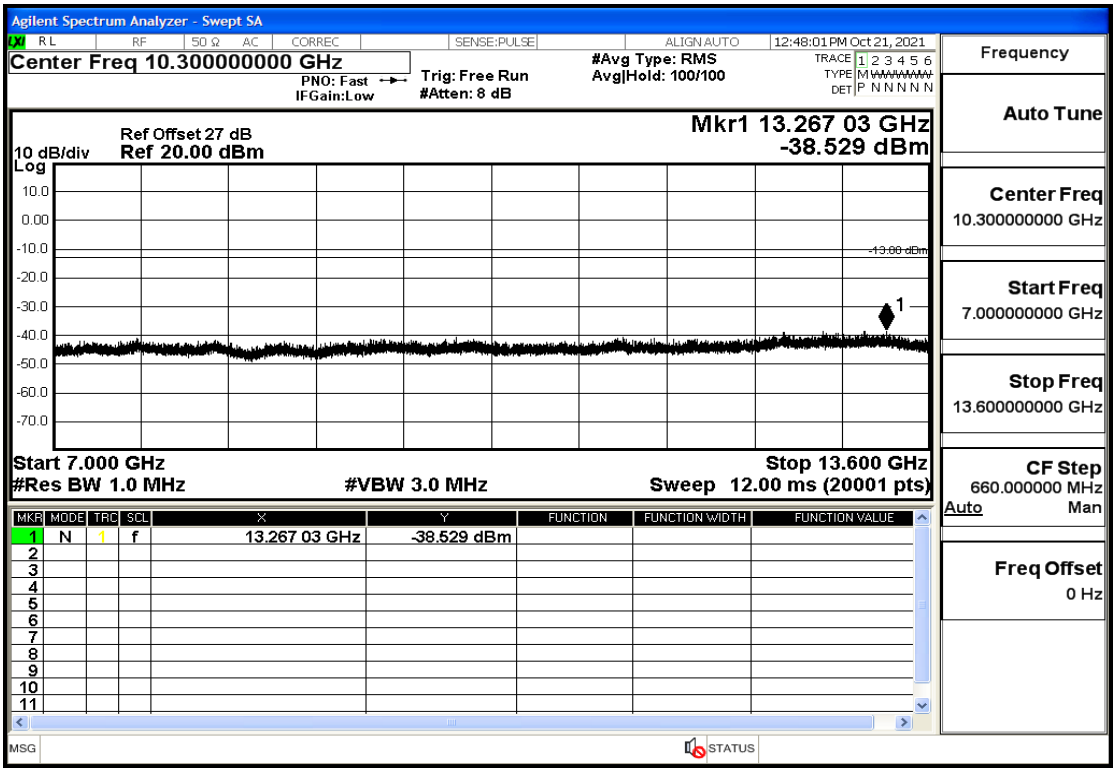
OB4-20-1720-QPSK-100#LOW@30mHz-1GHz@Pass



OB4-20-1720-QPSK-100#LOW@1GHz-7GHz@Pass



OB4-20-1720-QPSK-100#LOW@7GHz-13.6GHz@Pass



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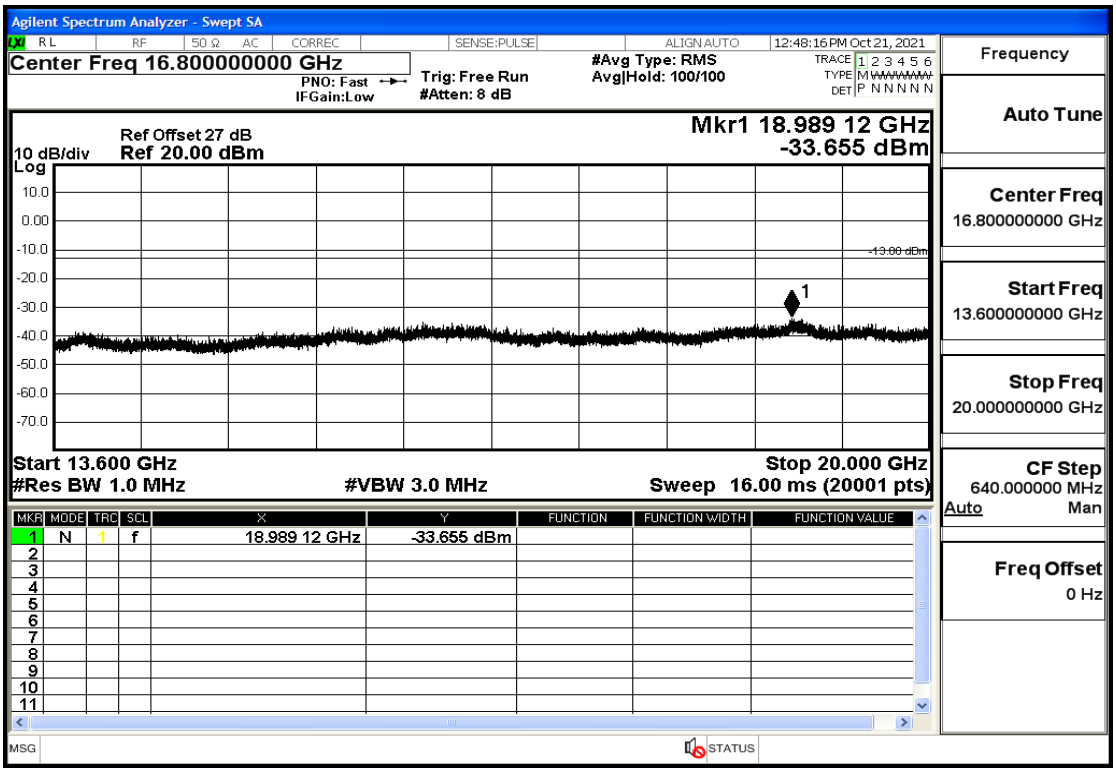
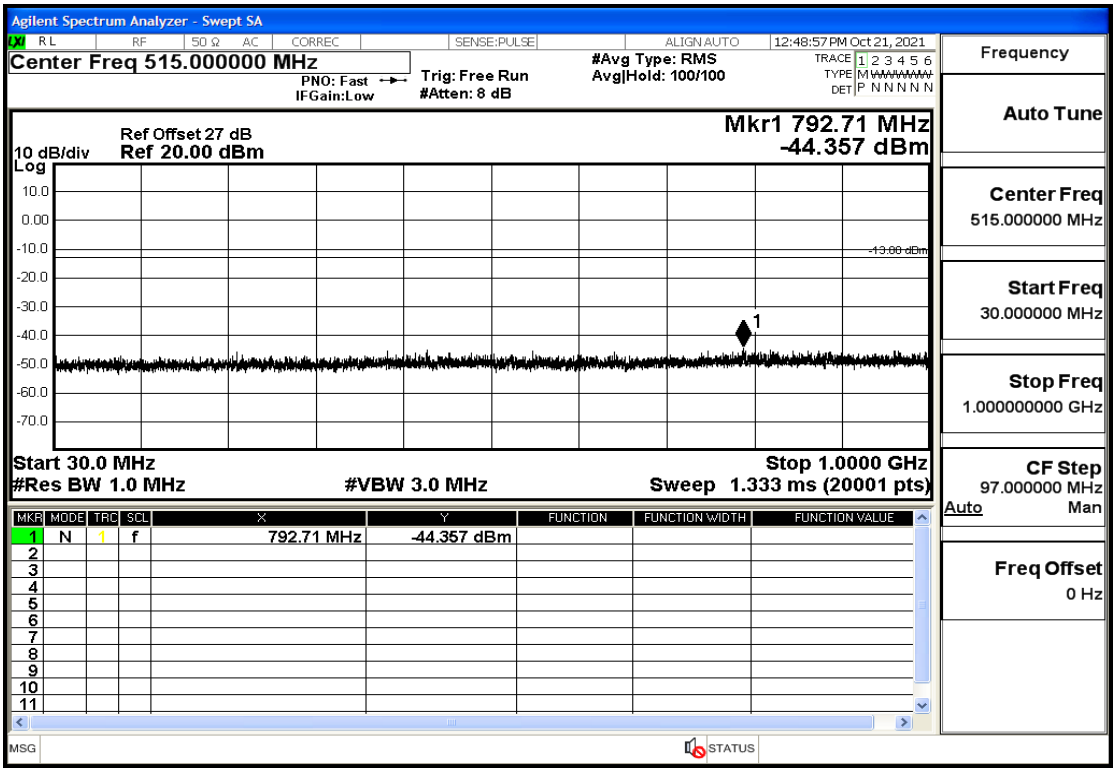
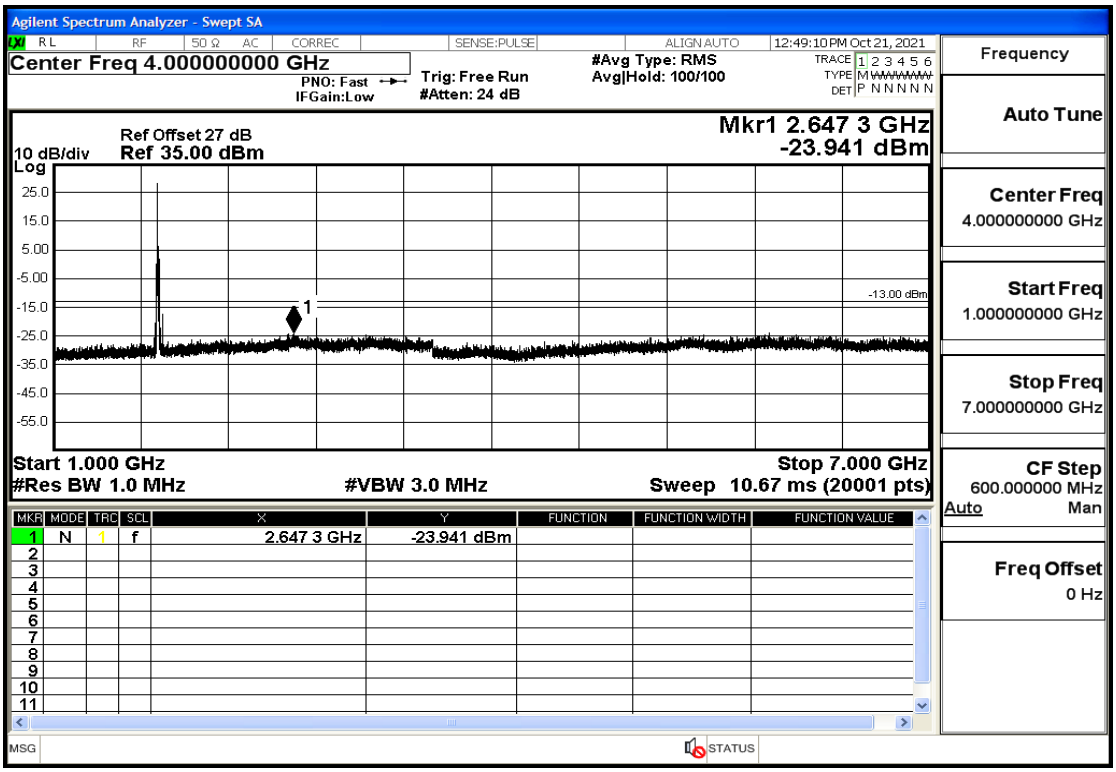


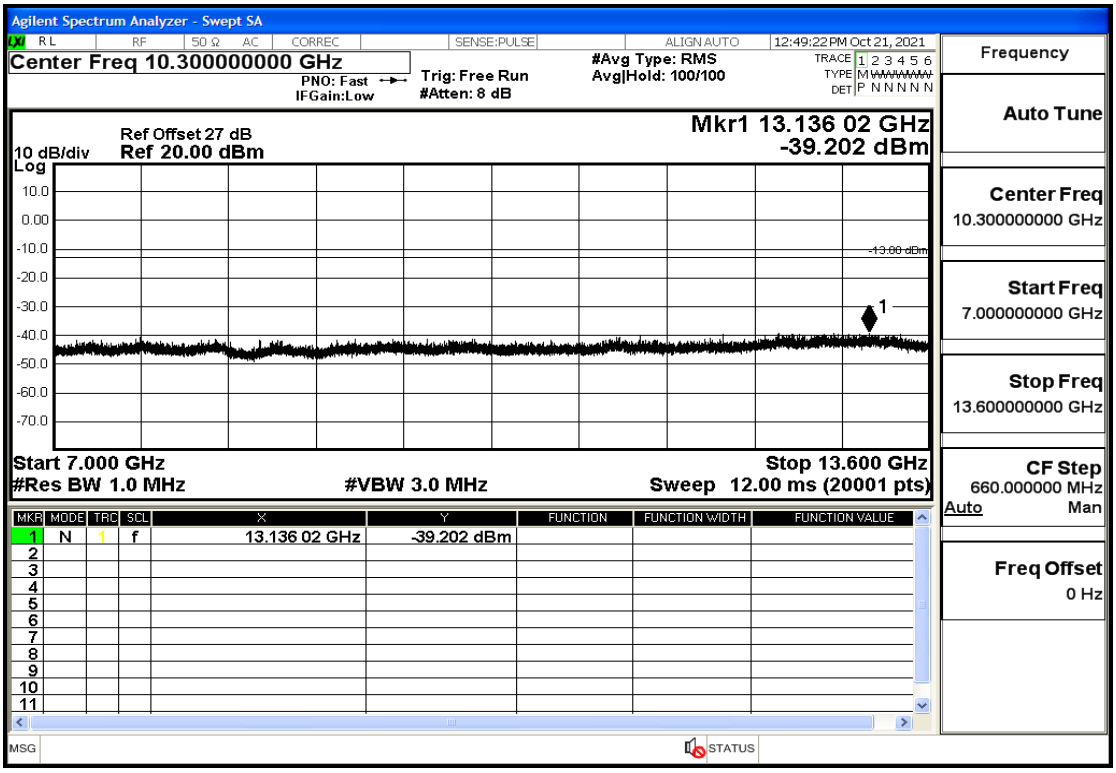
OB4-20-1720-QPSK-1#LOW@30mHz-1GHz@Pass



OB4-20-1720-QPSK-1#LOW@1GHz-7GHz@Pass



OB4-20-1720-QPSK-1#LOW@7GHz-13.6GHz@Pass



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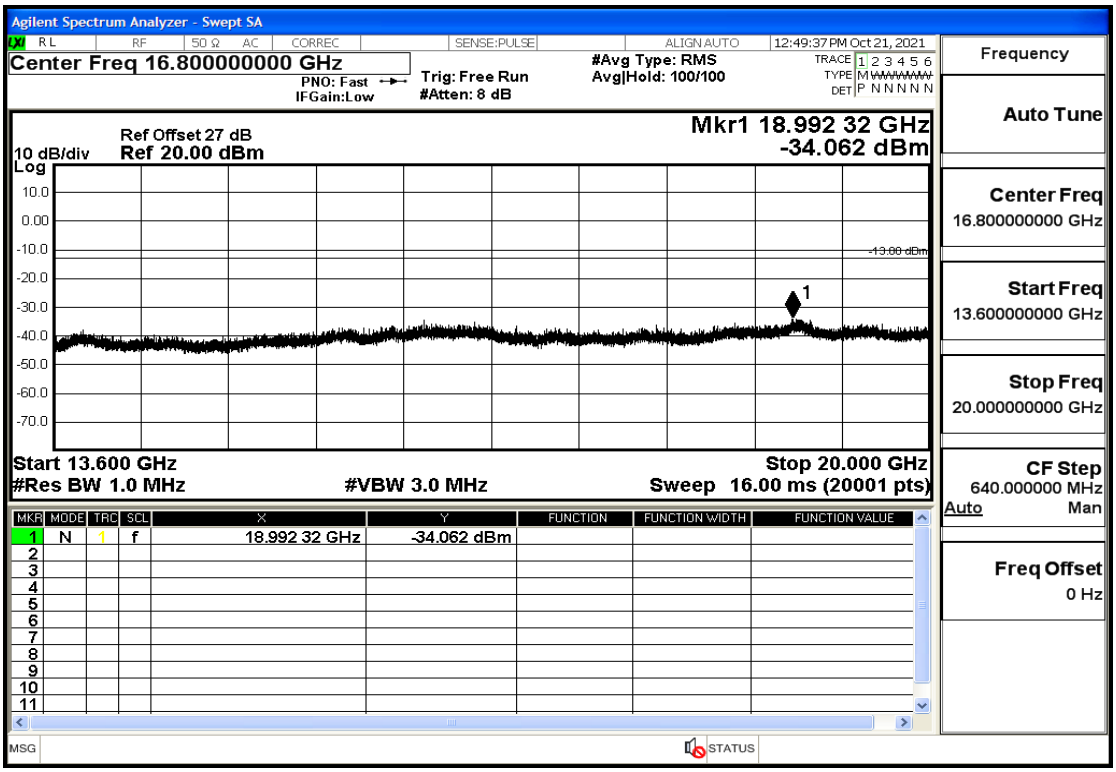
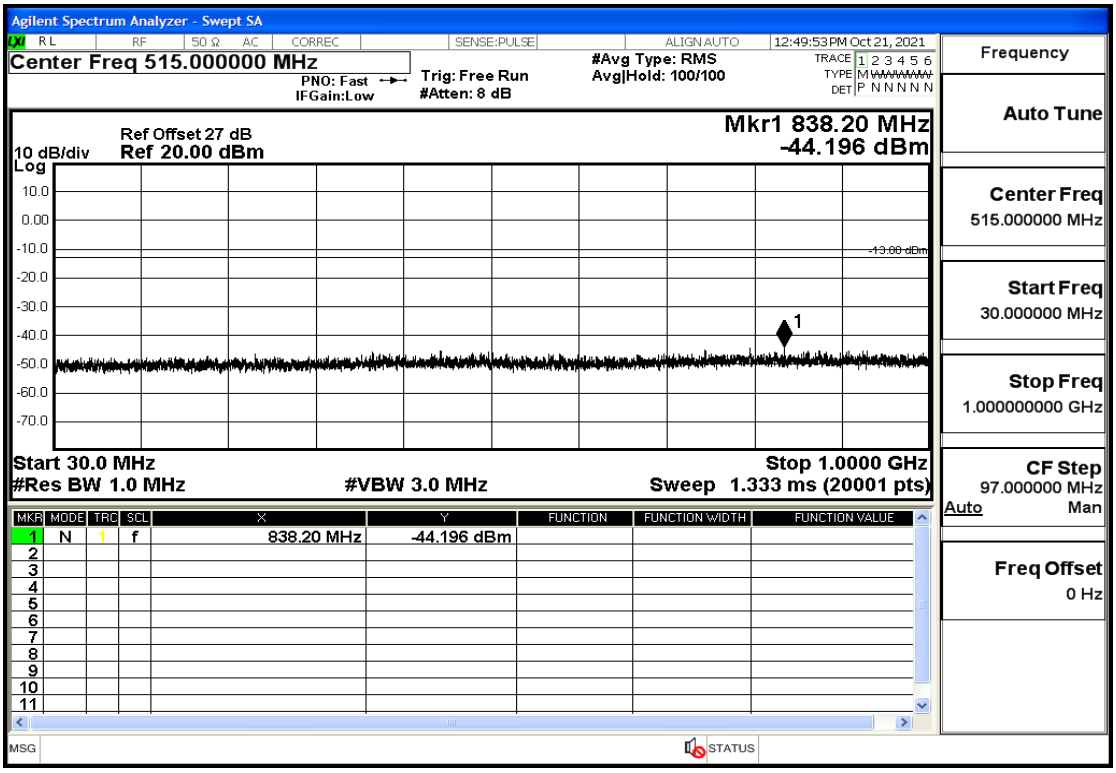
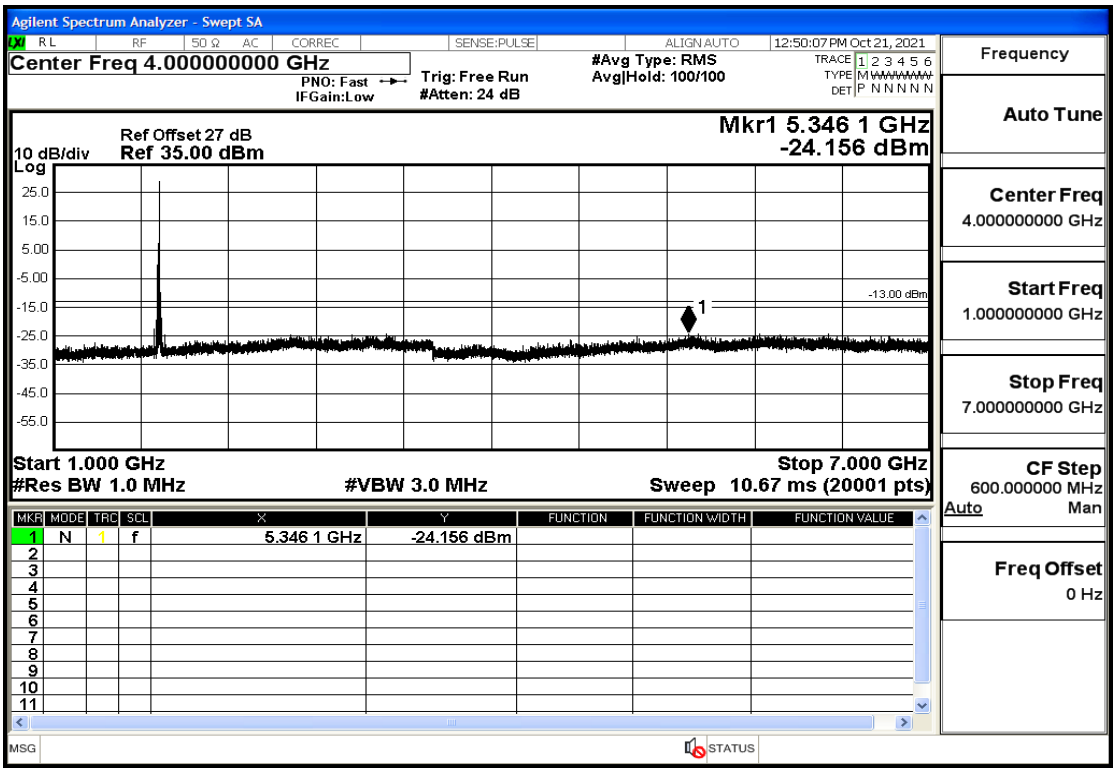


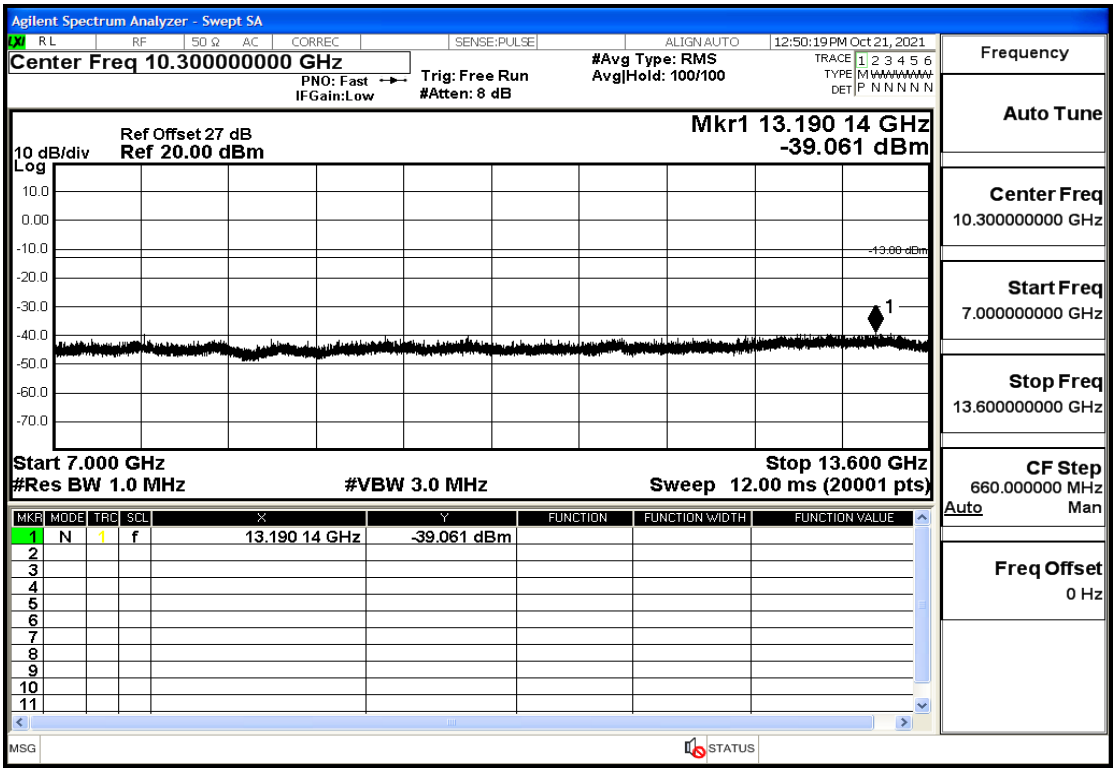
OB4-20-1720-QPSK-1#HIGH@30mHz-1GHz@Pass



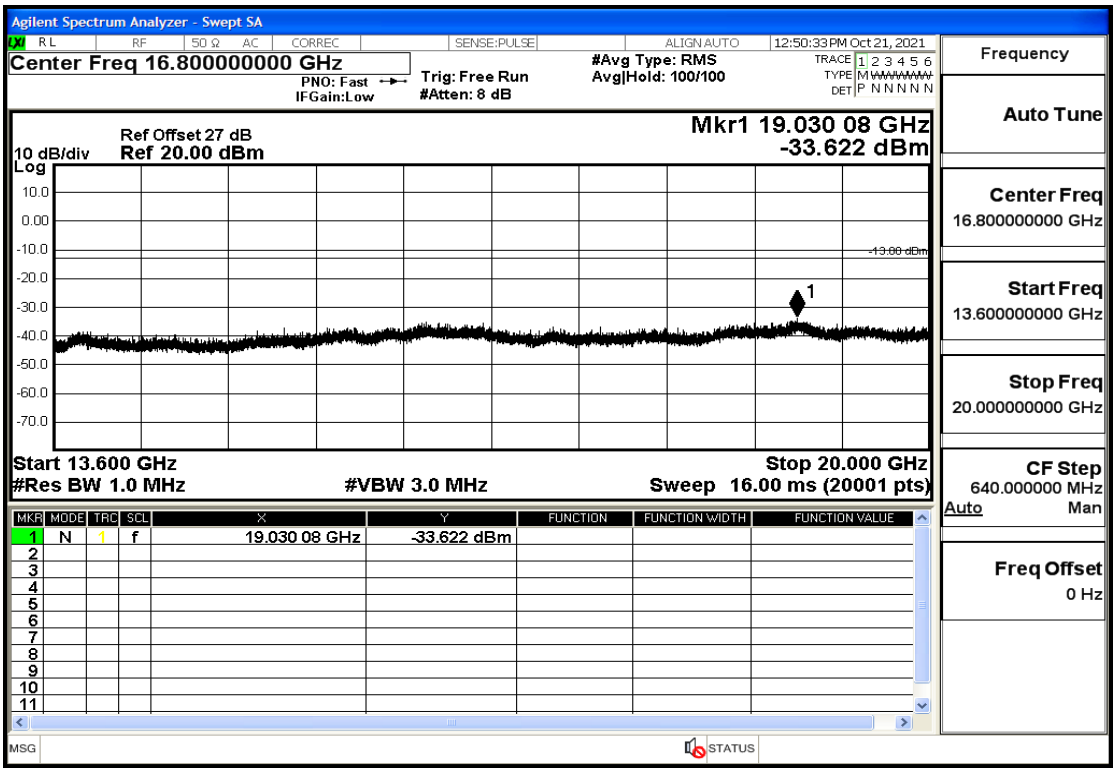
OB4-20-1720-QPSK-1#HIGH@1GHz-7GHz@Pass



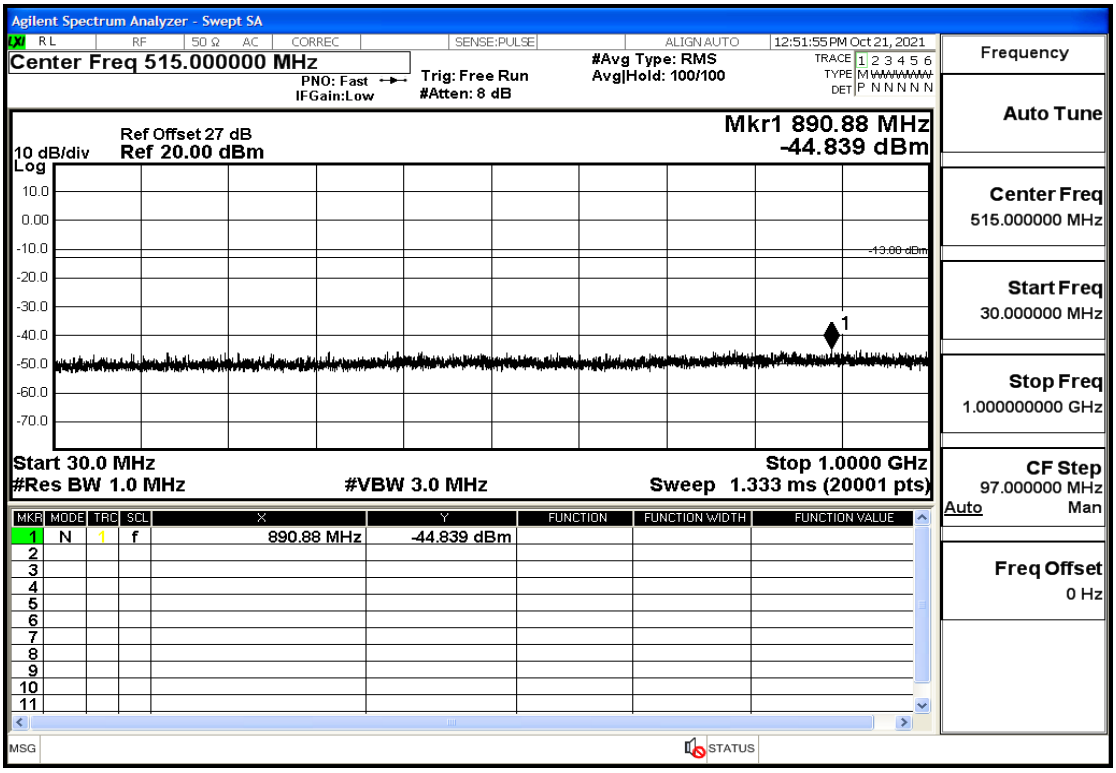
OB4-20-1720-QPSK-1#HIGH@7GHz-13.6GHz@Pass



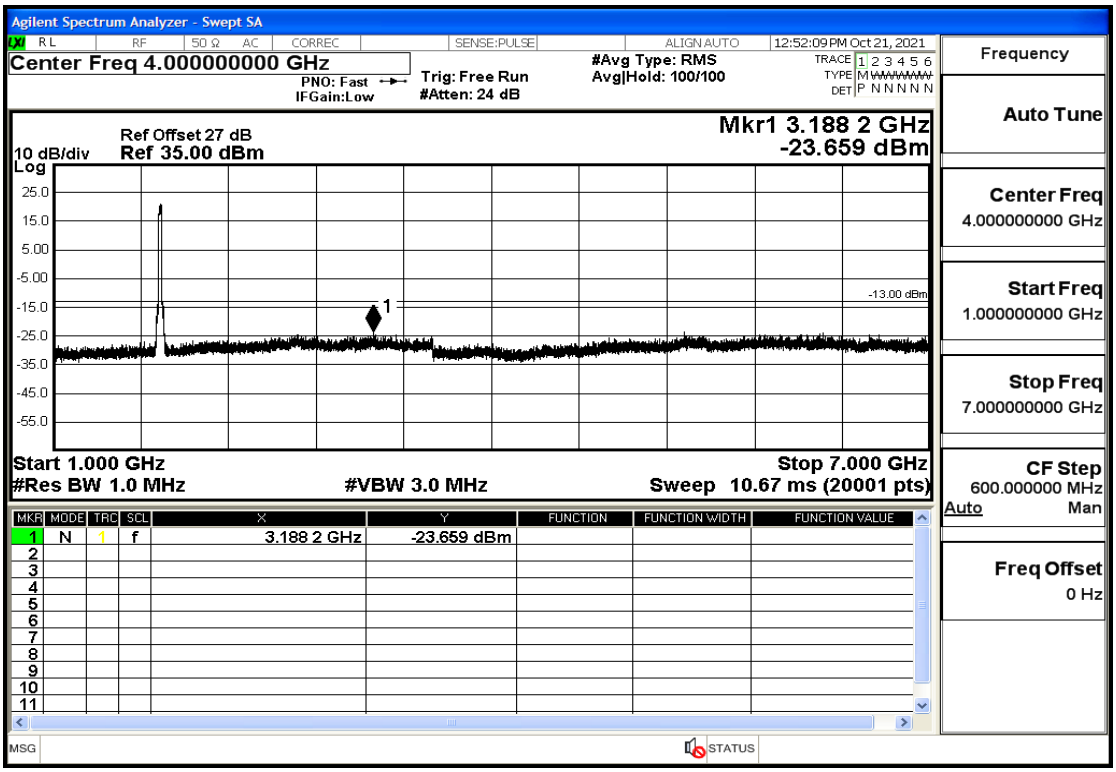
OB4-20-1720-QPSK-1#HIGH@13.6GHz-20GHz@Pass



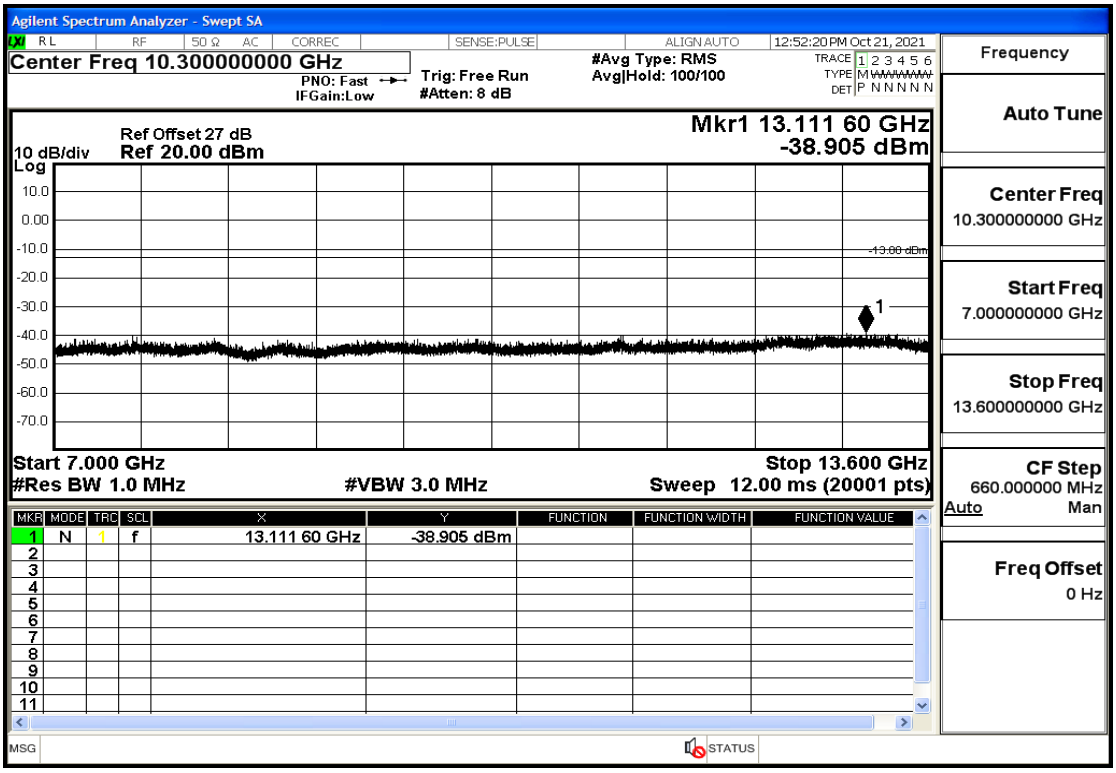
OB4-20-1732.5-QPSK-100#LOW@30mHz-1GHz@Pass



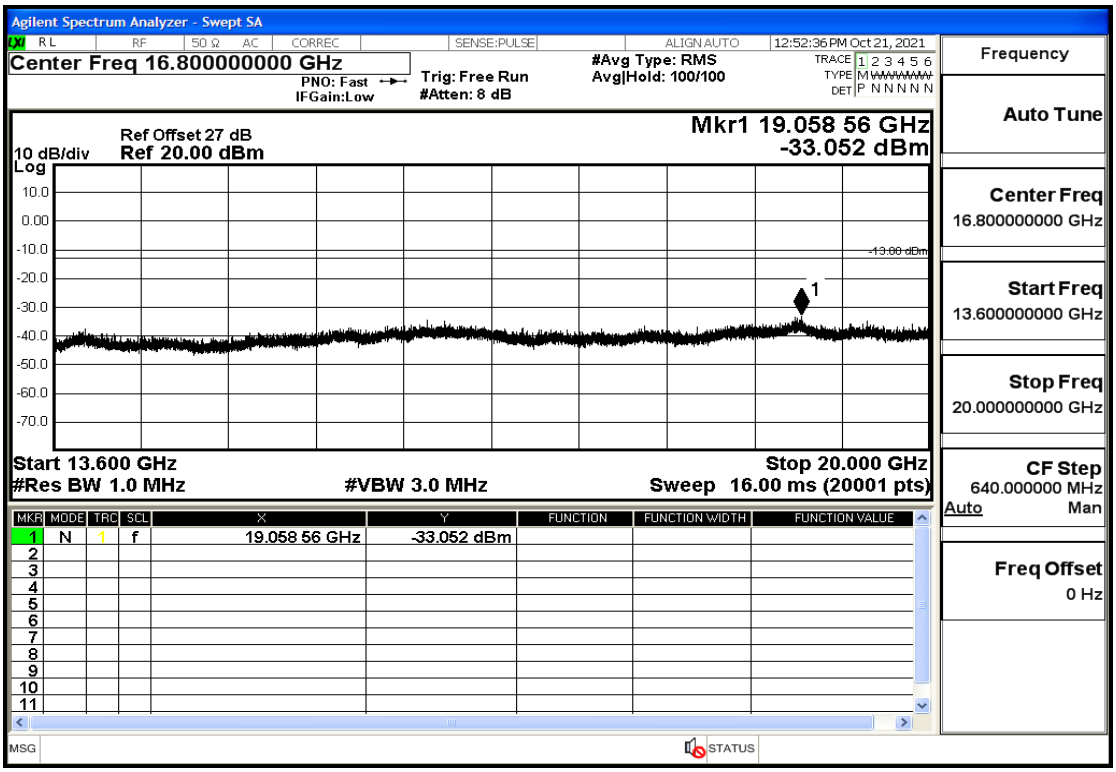
OB4-20-1732.5-QPSK-100#LOW@1GHz-7GHz@Pass



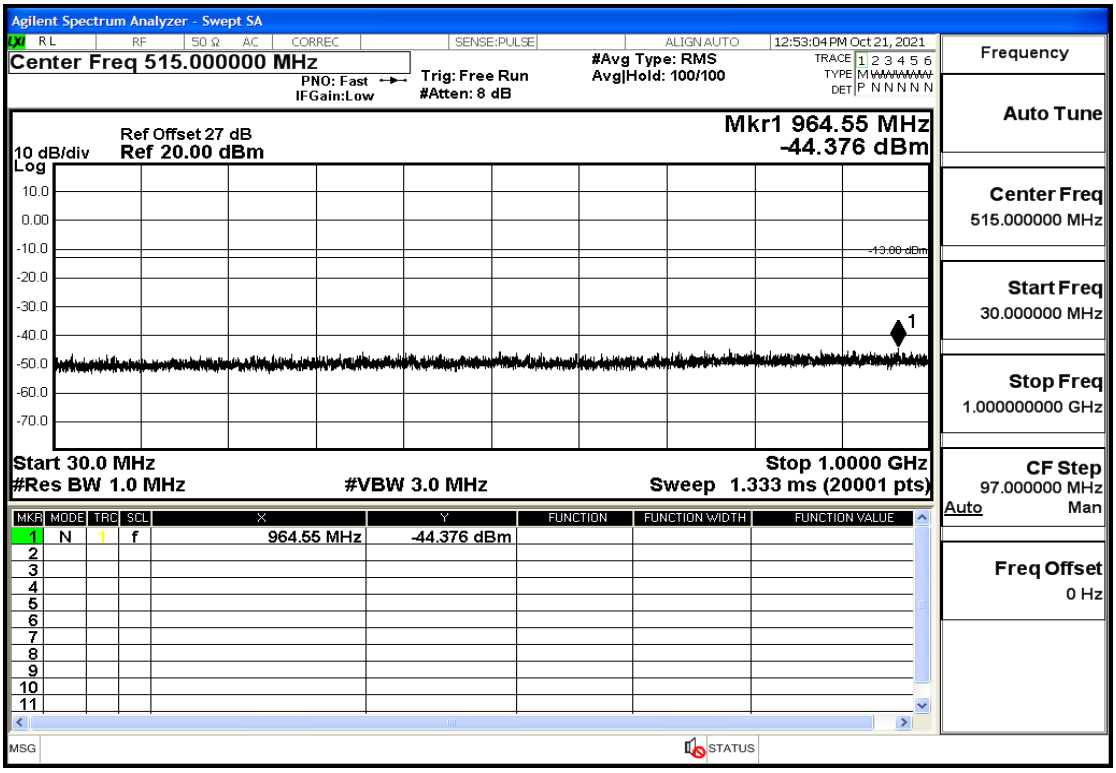
OB4-20-1732.5-QPSK-100#LOW@7GHz-13.6GHz@Pass



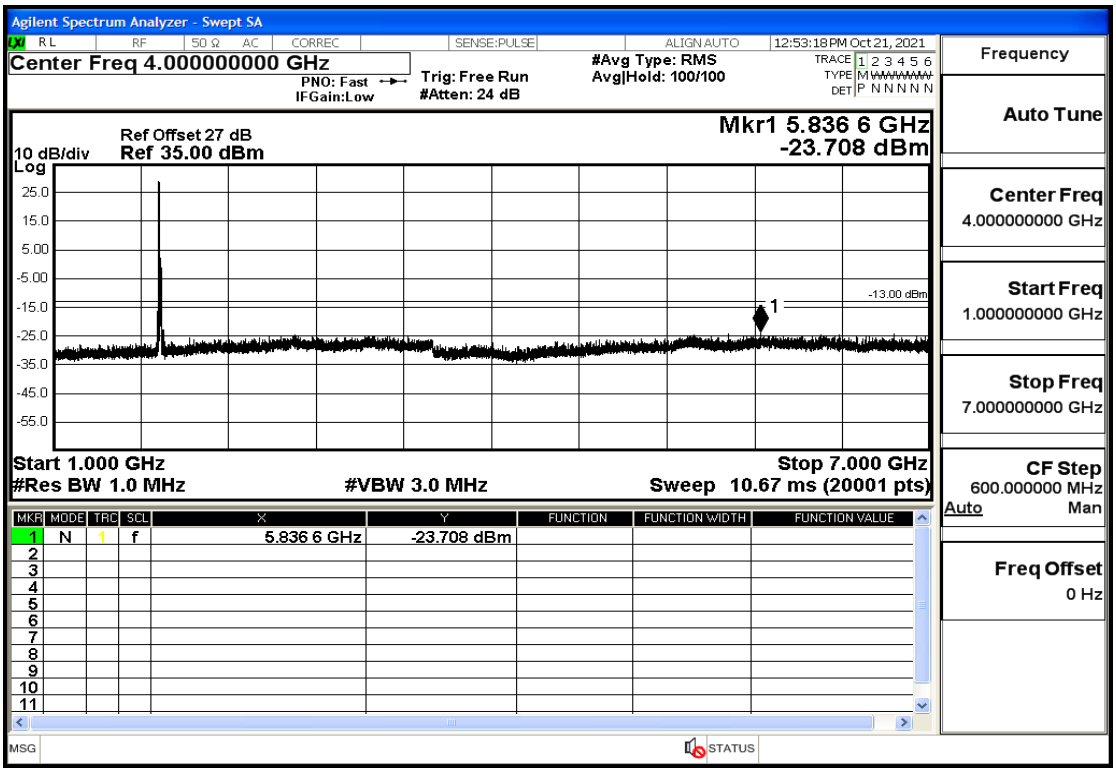
OB4-20-1732.5-QPSK-100#LOW@13.6GHz-20GHz@Pass



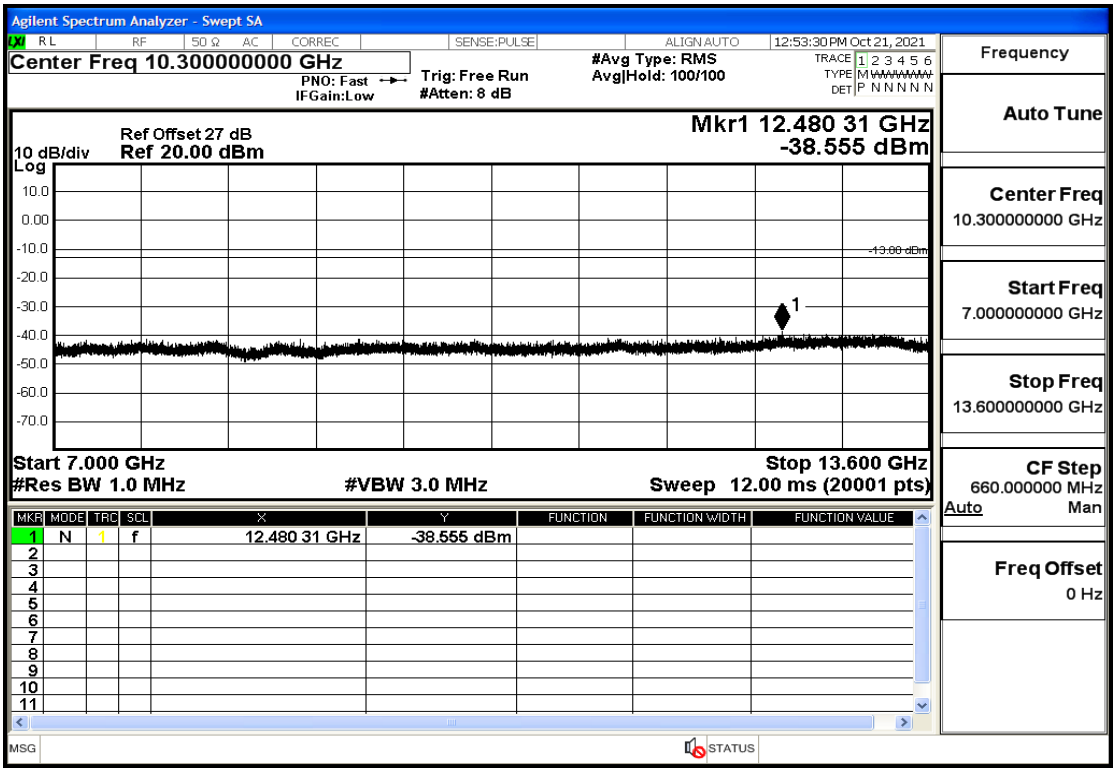
OB4-20-1732.5-QPSK-1#LOW@30mHz-1GHz@Pass



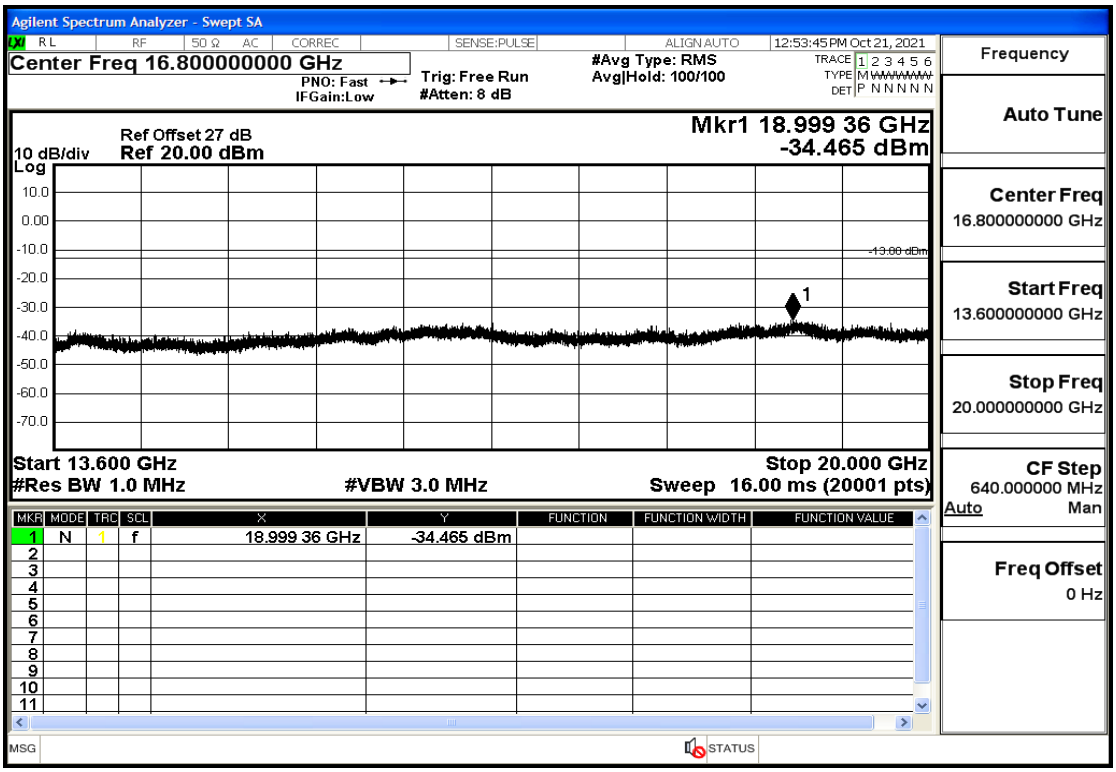
OB4-20-1732.5-QPSK-1#LOW@1GHz-7GHz@Pass



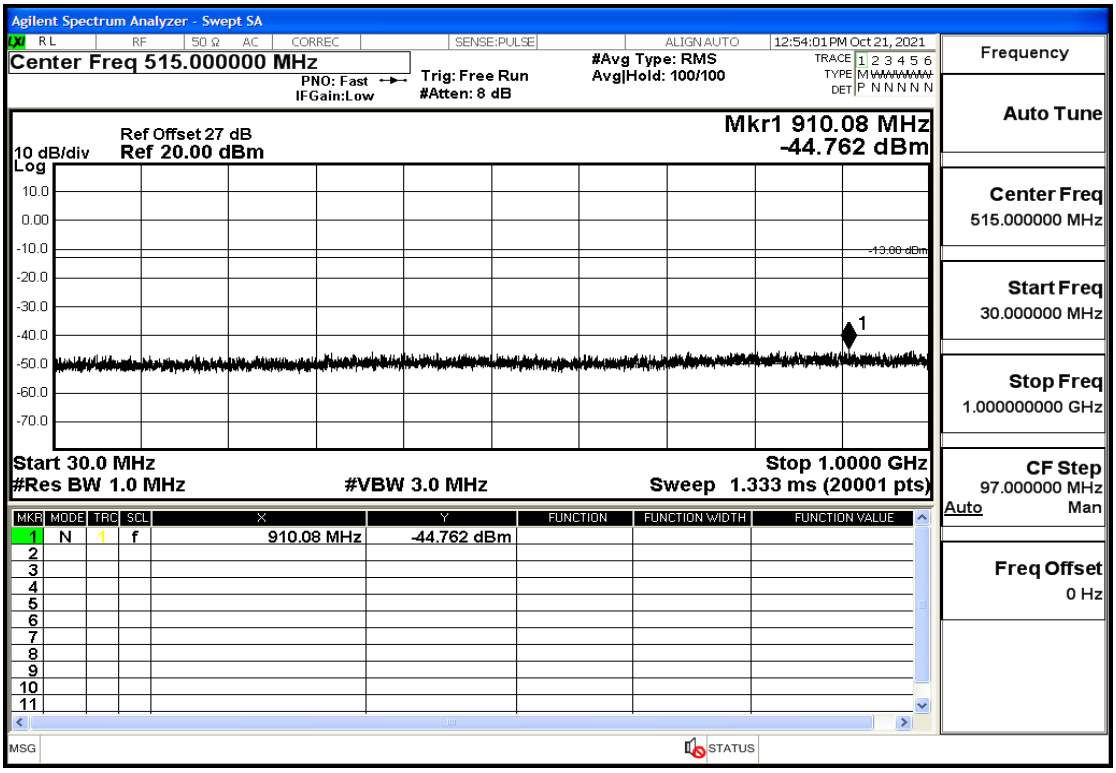
OB4-20-1732.5-QPSK-1#LOW@7GHz-13.6GHz@Pass



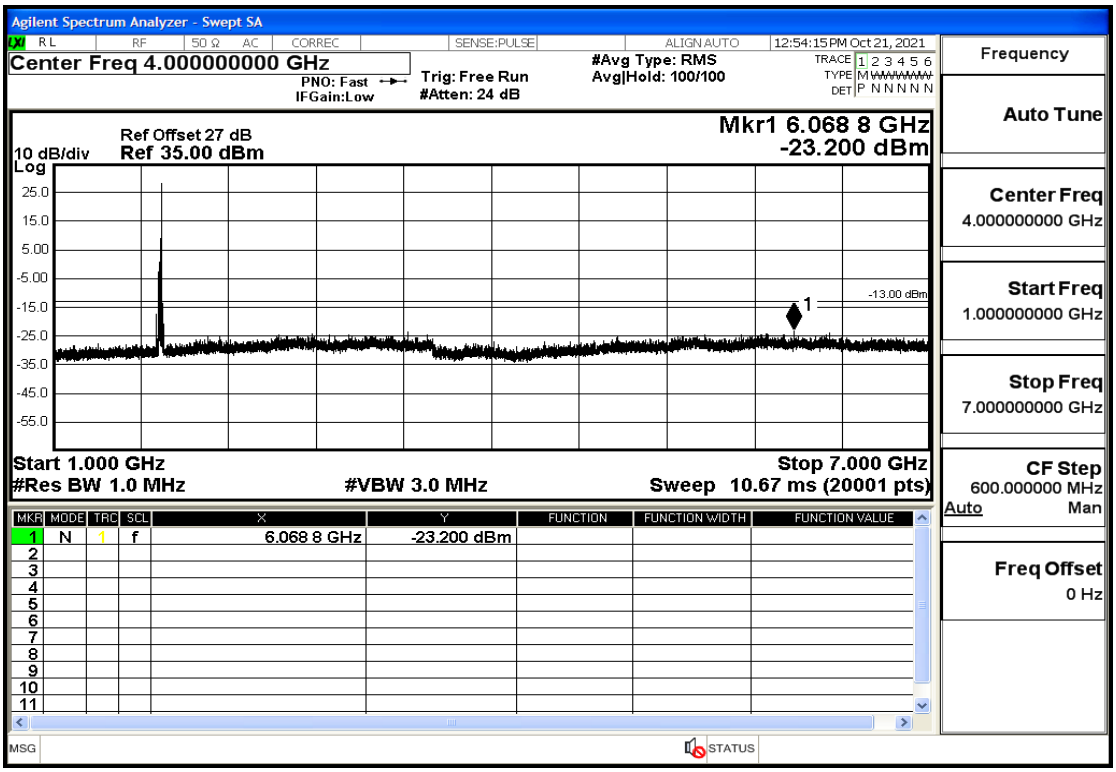
OB4-20-1732.5-QPSK-1#LOW@13.6GHz-20GHz@Pass



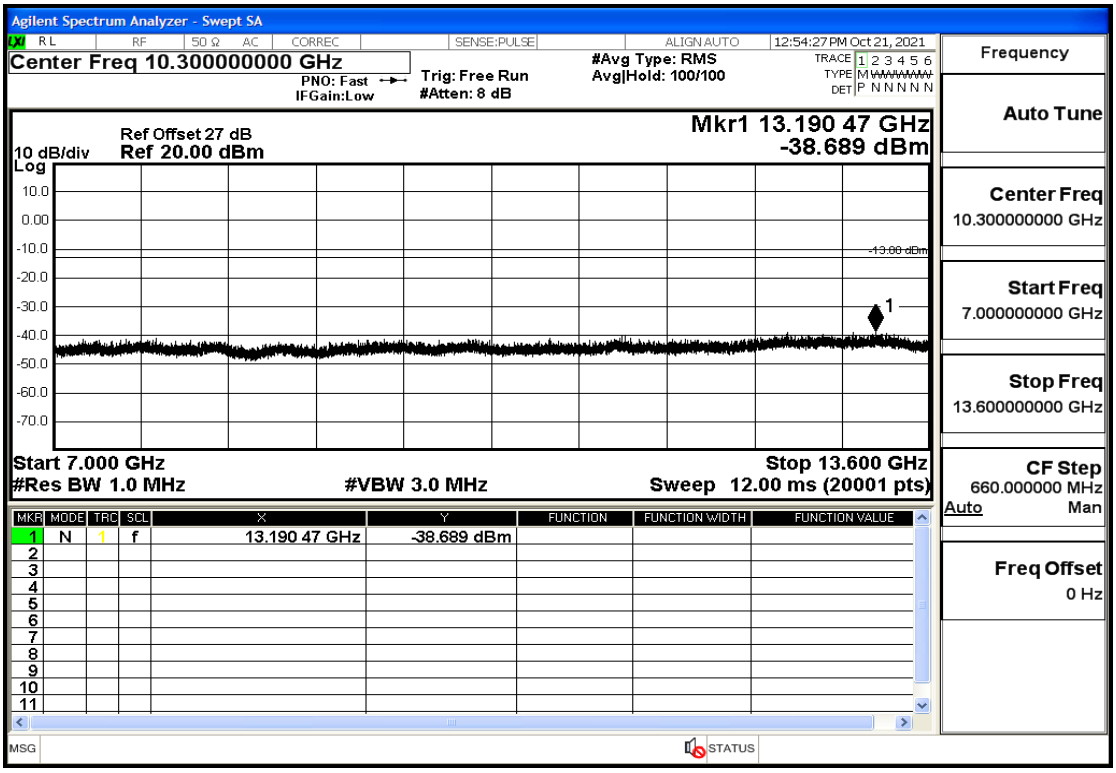
OB4-20-1732.5-QPSK-1#HIGH@30mHz-1GHz@Pass



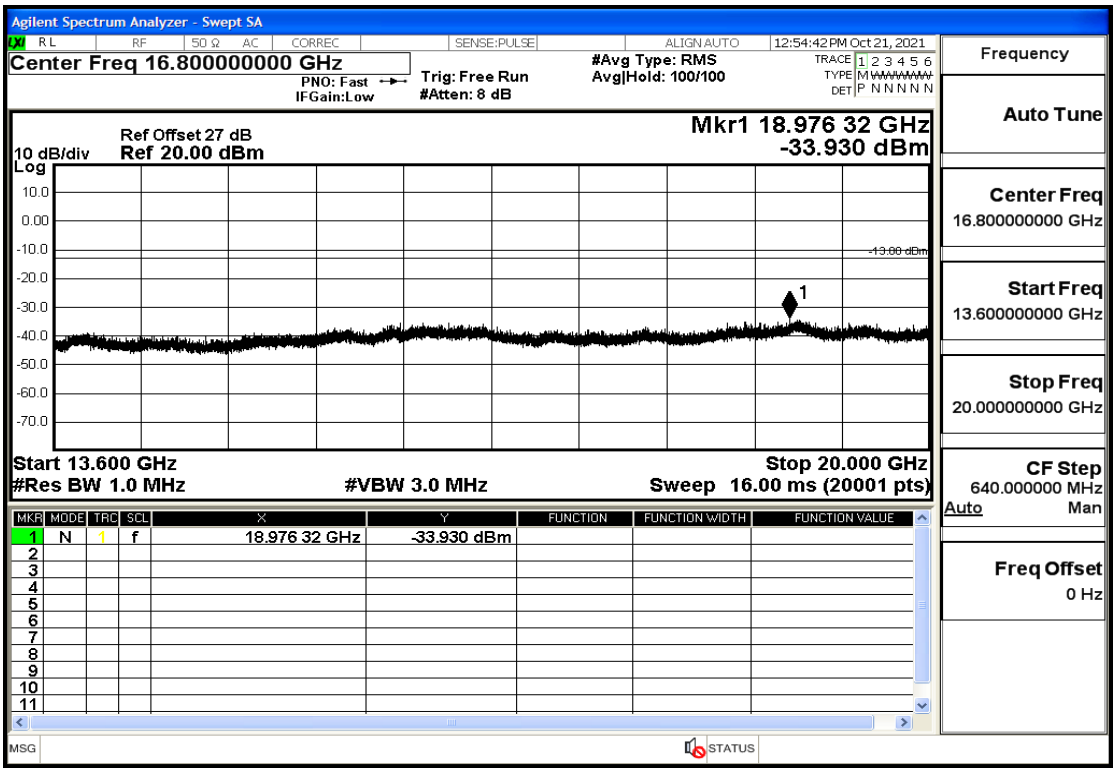
OB4-20-1732.5-QPSK-1#HIGH@1GHz-7GHz@Pass



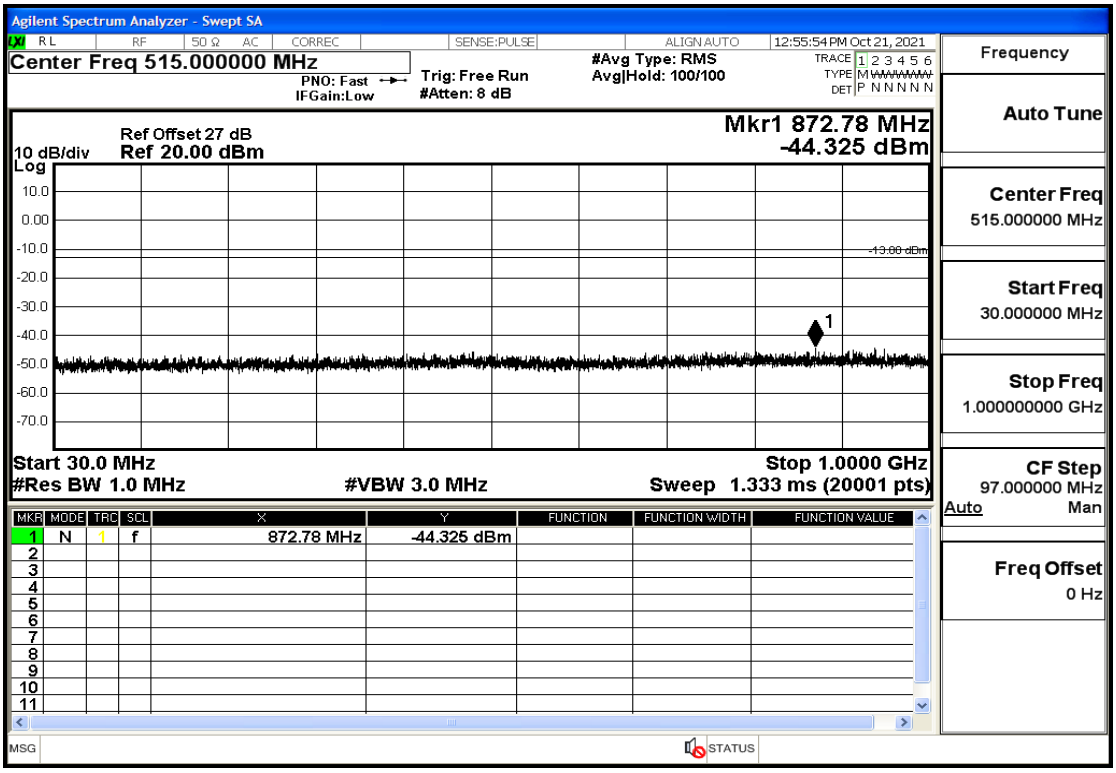
OB4-20-1732.5-QPSK-1#HIGH@7GHz-13.6GHz@Pass



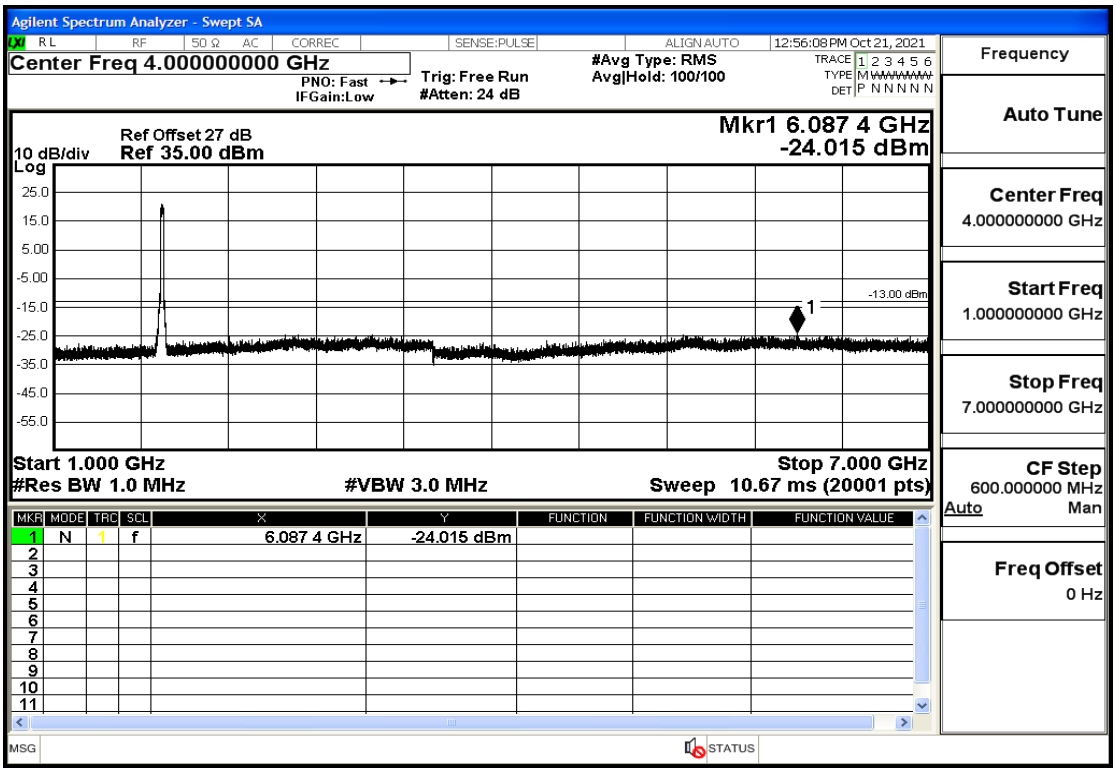
OB4-20-1732.5-QPSK-1#HIGH@13.6GHz-20GHz@Pass



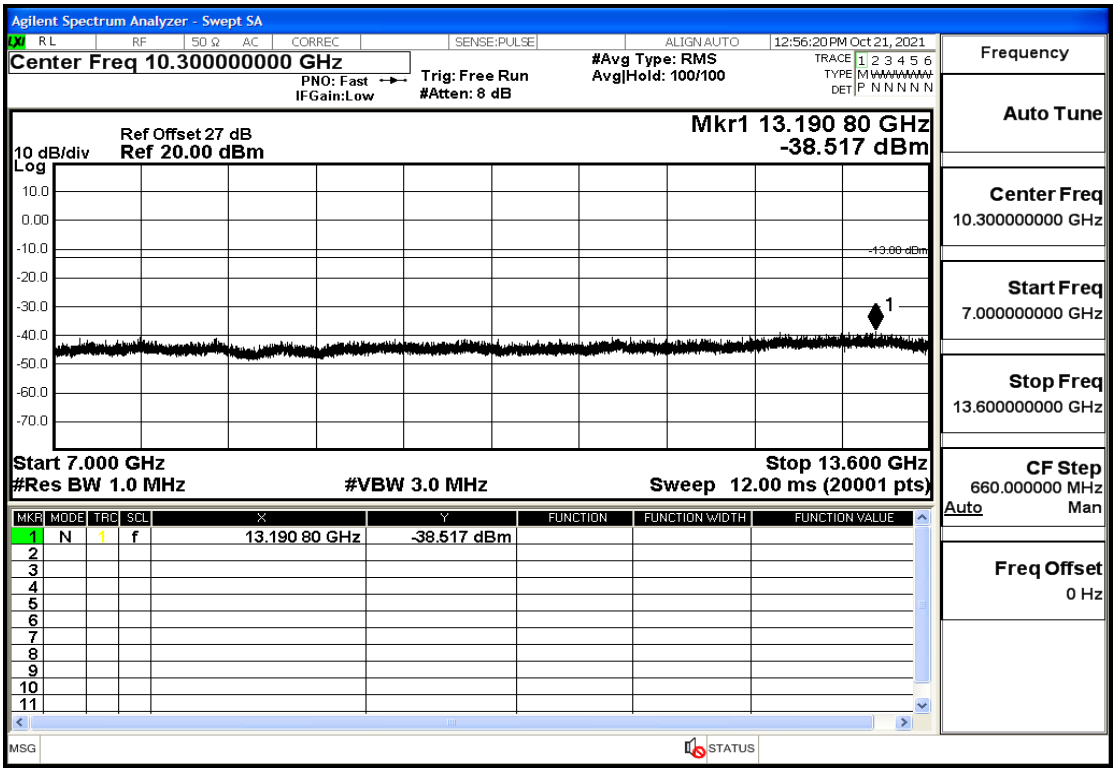
OB4-20-1745-QPSK-100#LOW@30mHz-1GHz@Pass



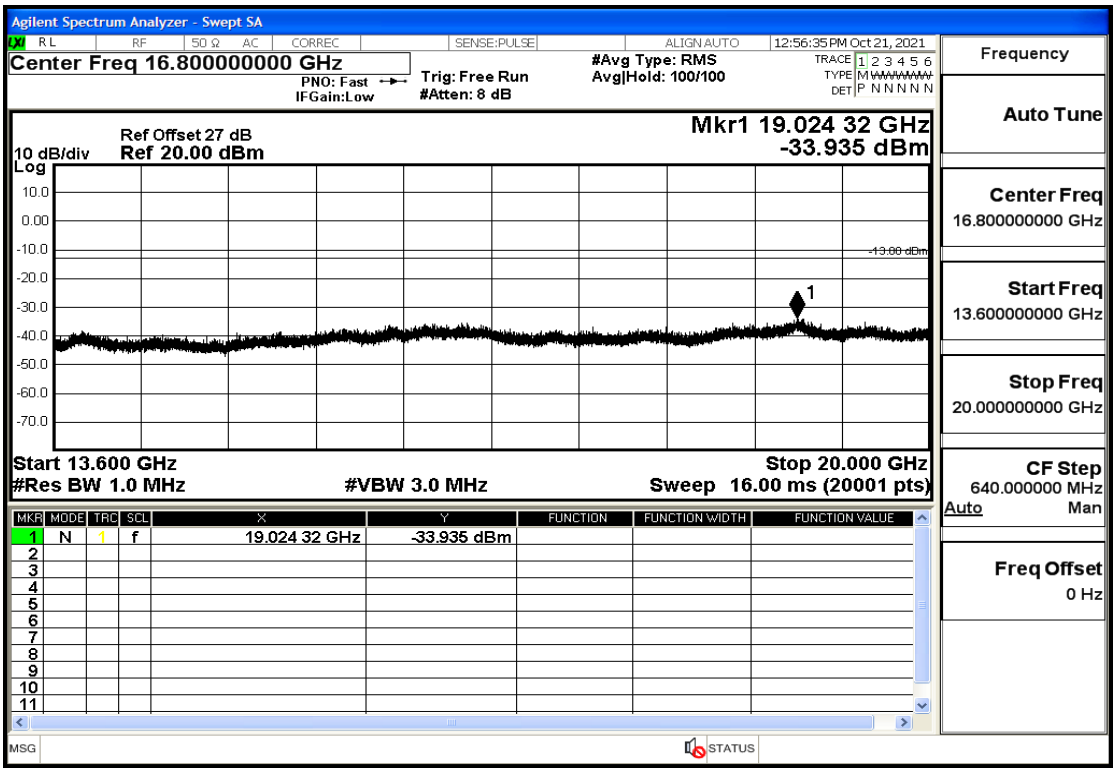
OB4-20-1745-QPSK-100#LOW@1GHz-7GHz@Pass



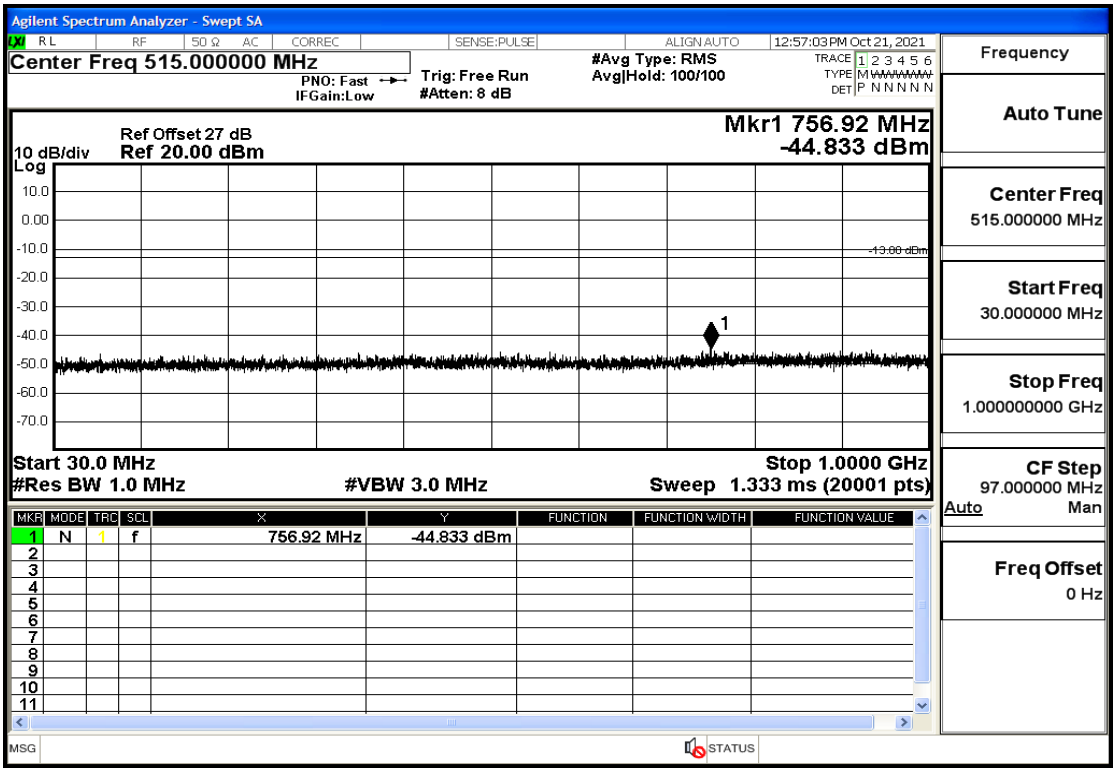
OB4-20-1745-QPSK-100#LOW@7GHz-13.6GHz@Pass



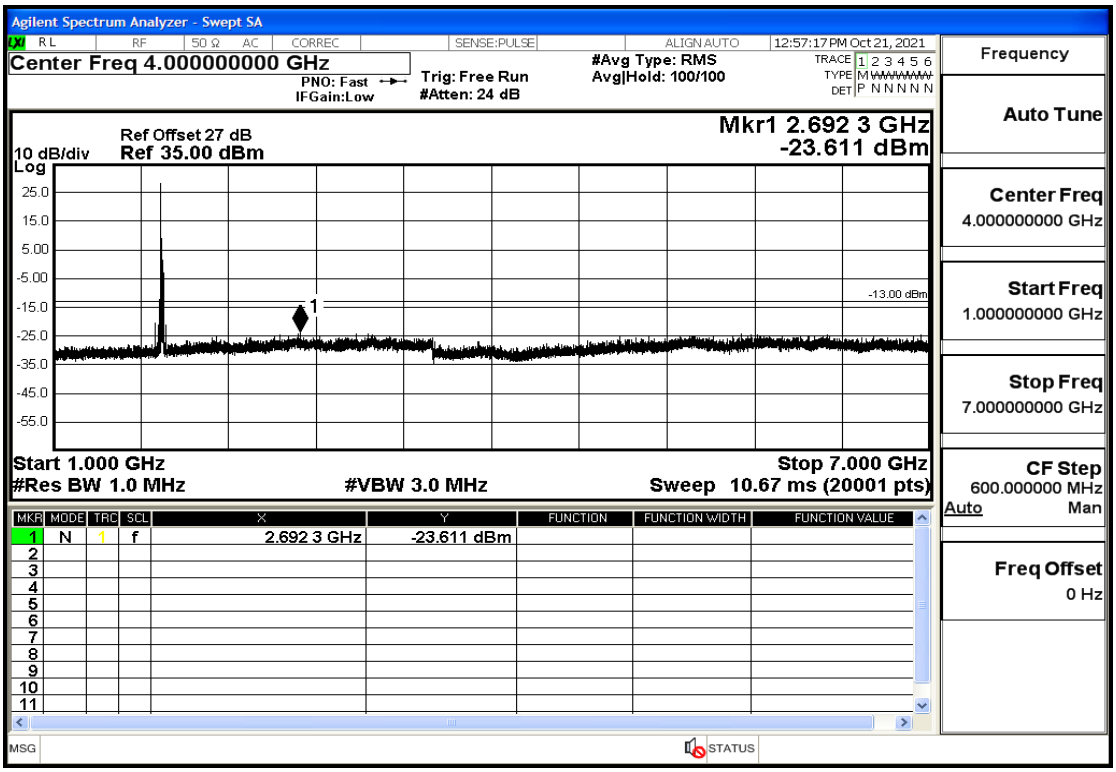
OB4-20-1745-QPSK-100#LOW@13.6GHz-20GHz@Pass



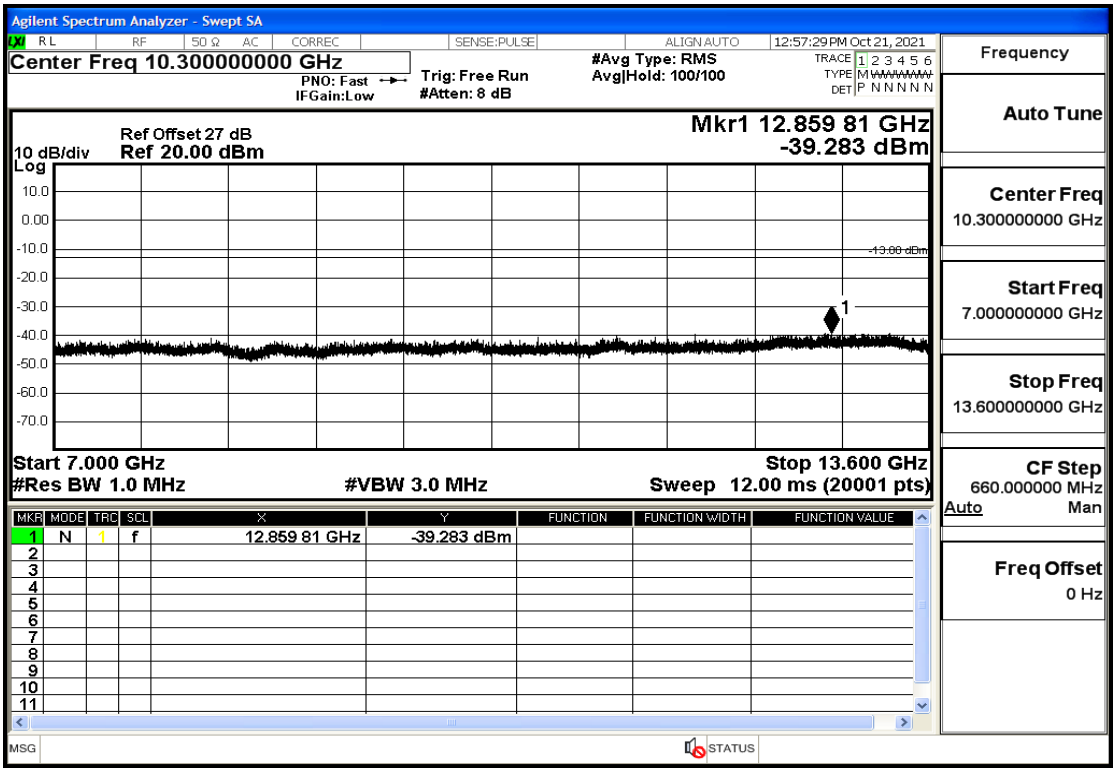
OB4-20-1745-QPSK-1#LOW@30mHz-1GHz@Pass



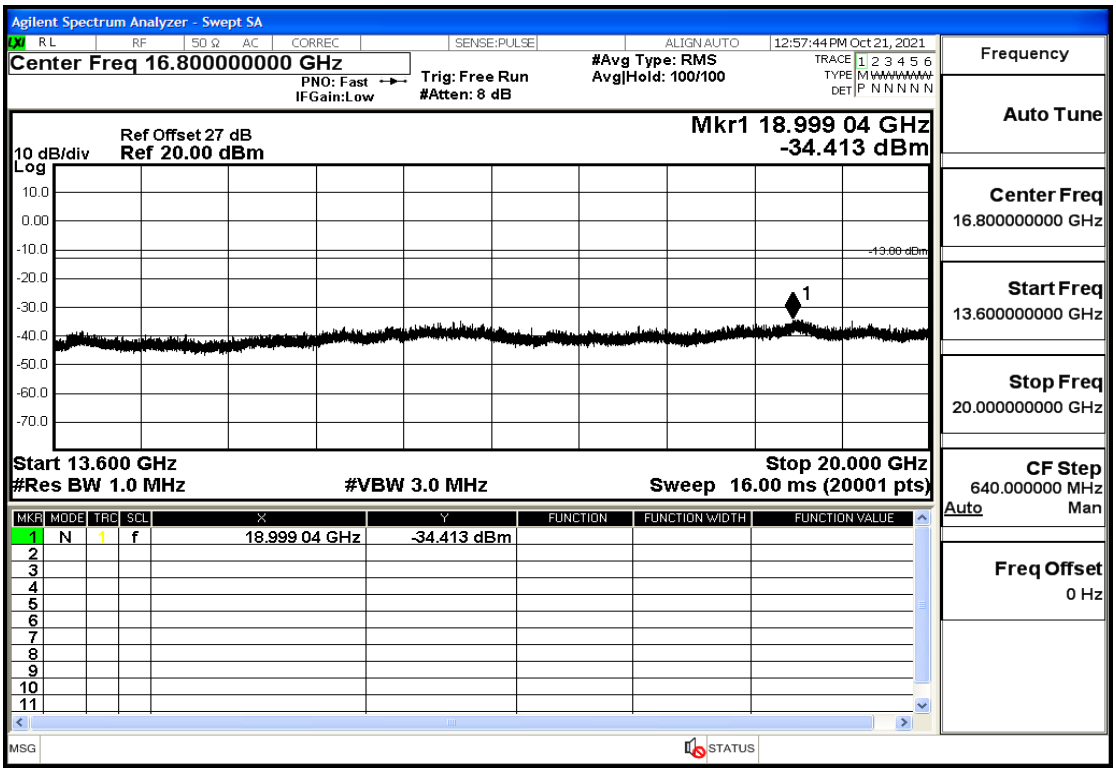
OB4-20-1745-QPSK-1#LOW@1GHz-7GHz@Pass



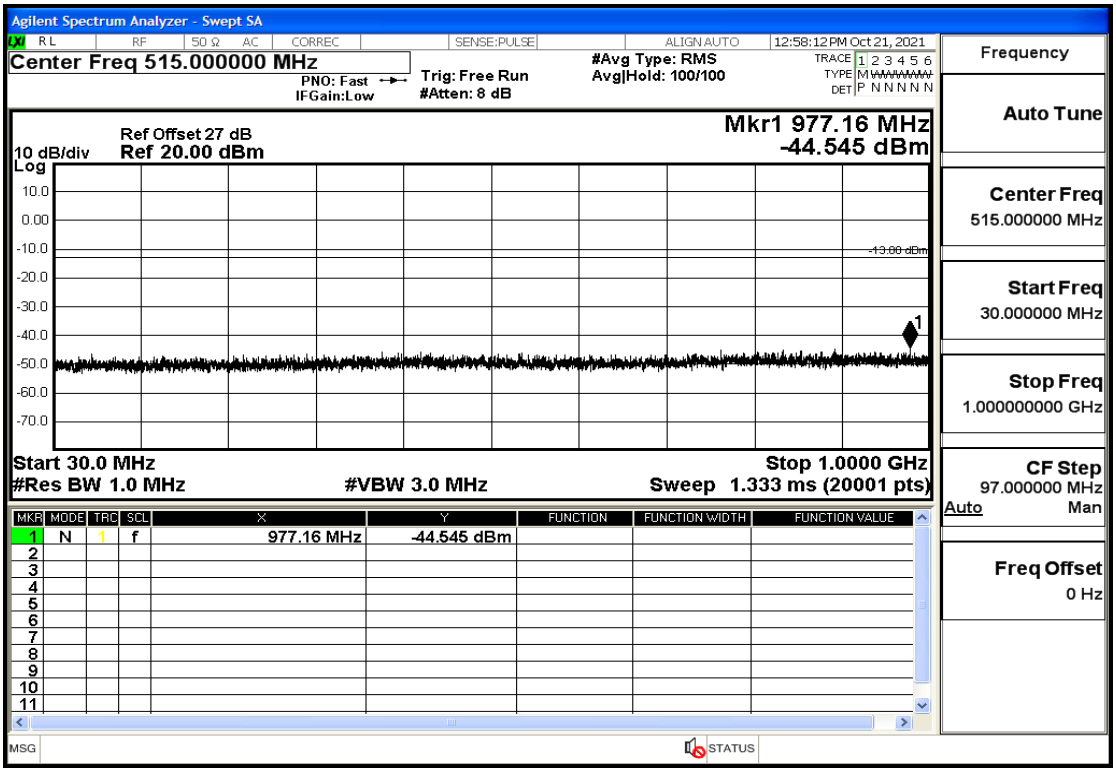
OB4-20-1745-QPSK-1#LOW@7GHz-13.6GHz@Pass



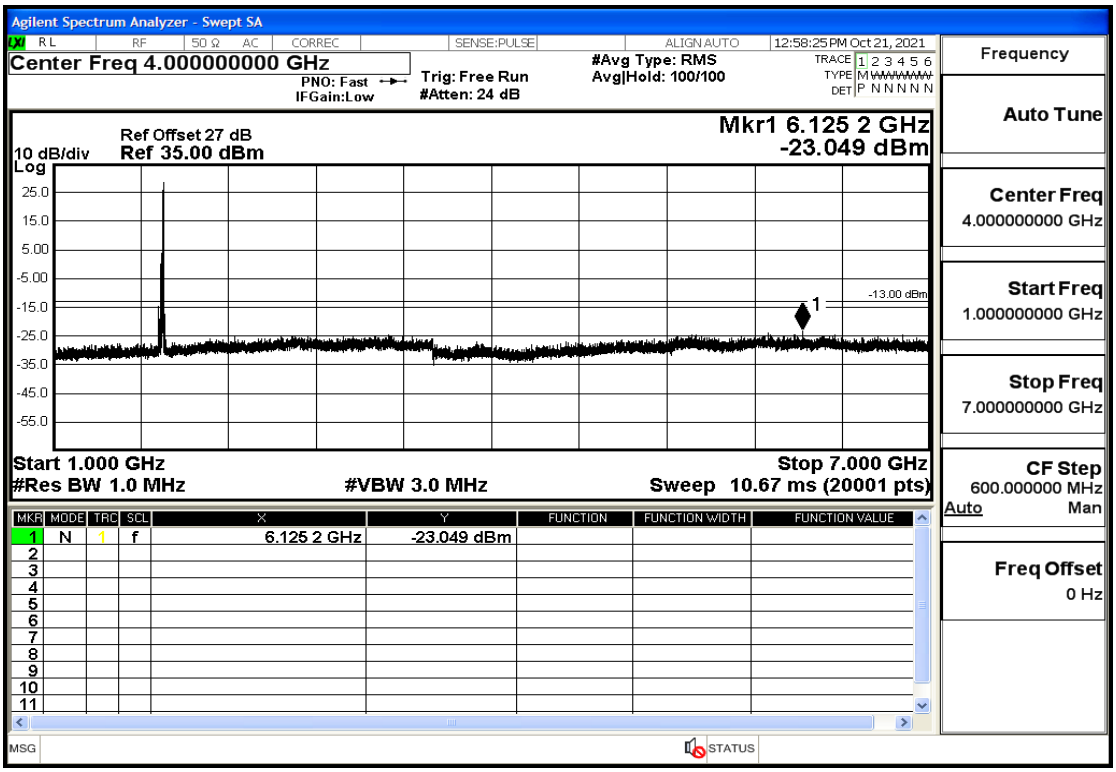
OB4-20-1745-QPSK-1#LOW@13.6GHz-20GHz@Pass



OB4-20-1745-QPSK-1#HIGH@30mHz-1GHz@Pass



OB4-20-1745-QPSK-1#HIGH@1GHz-7GHz@Pass



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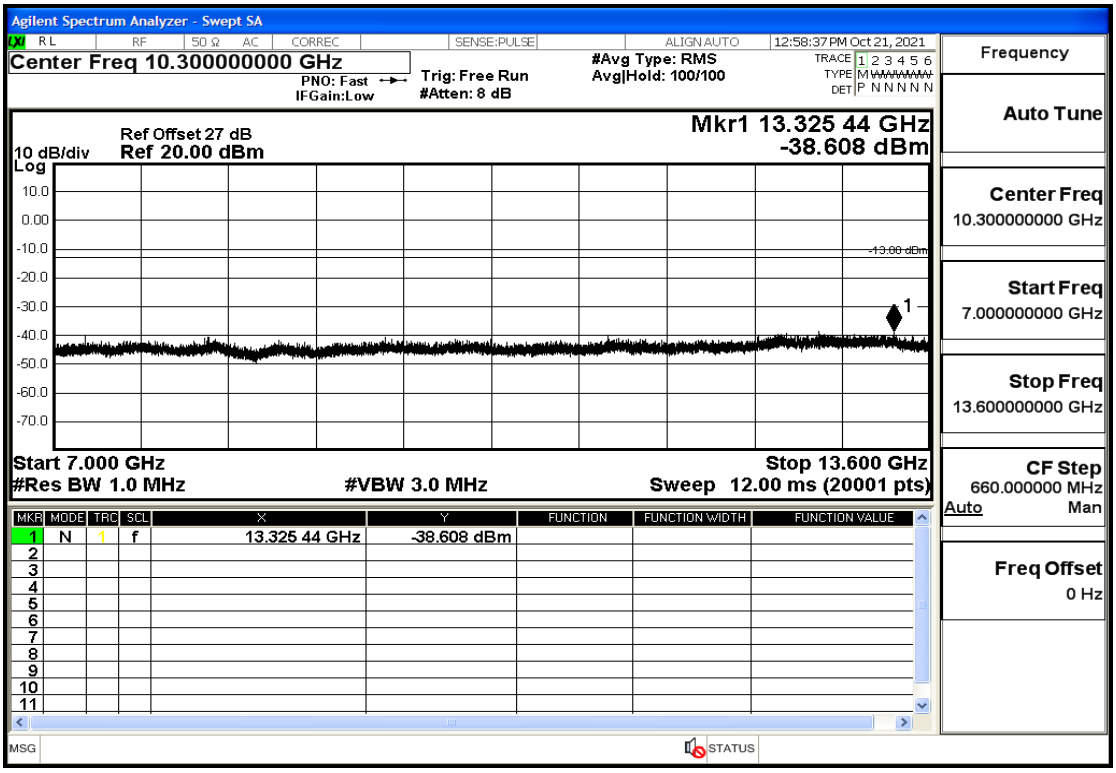
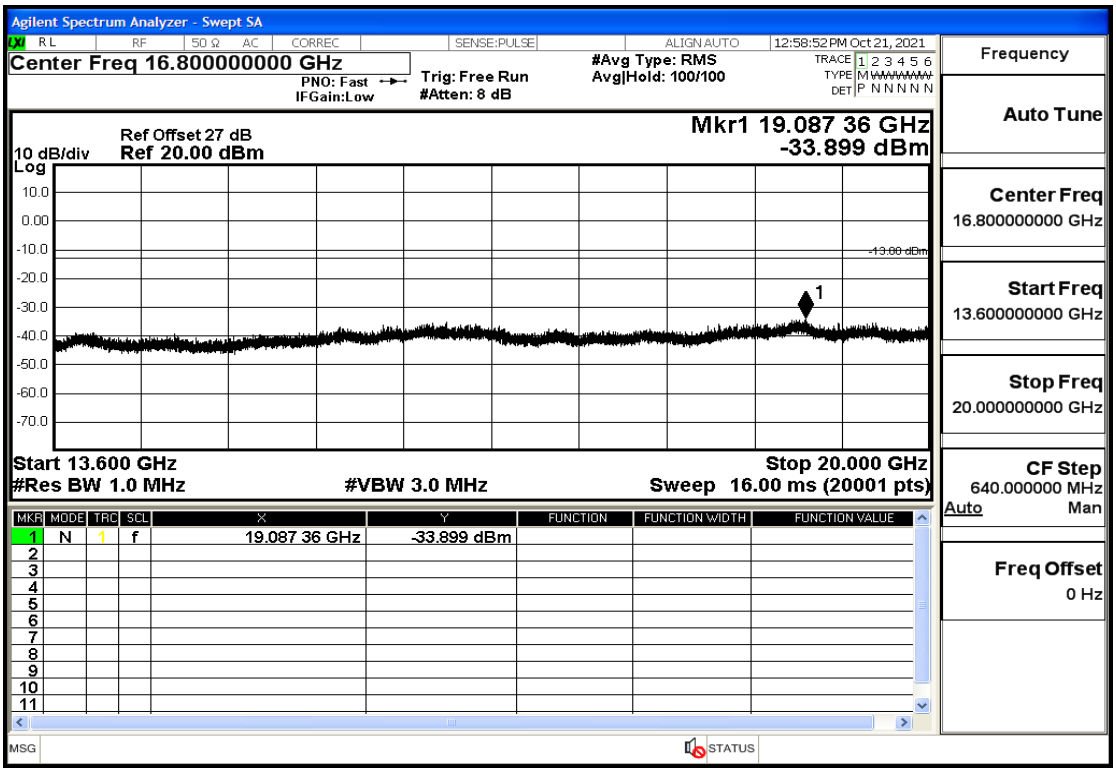


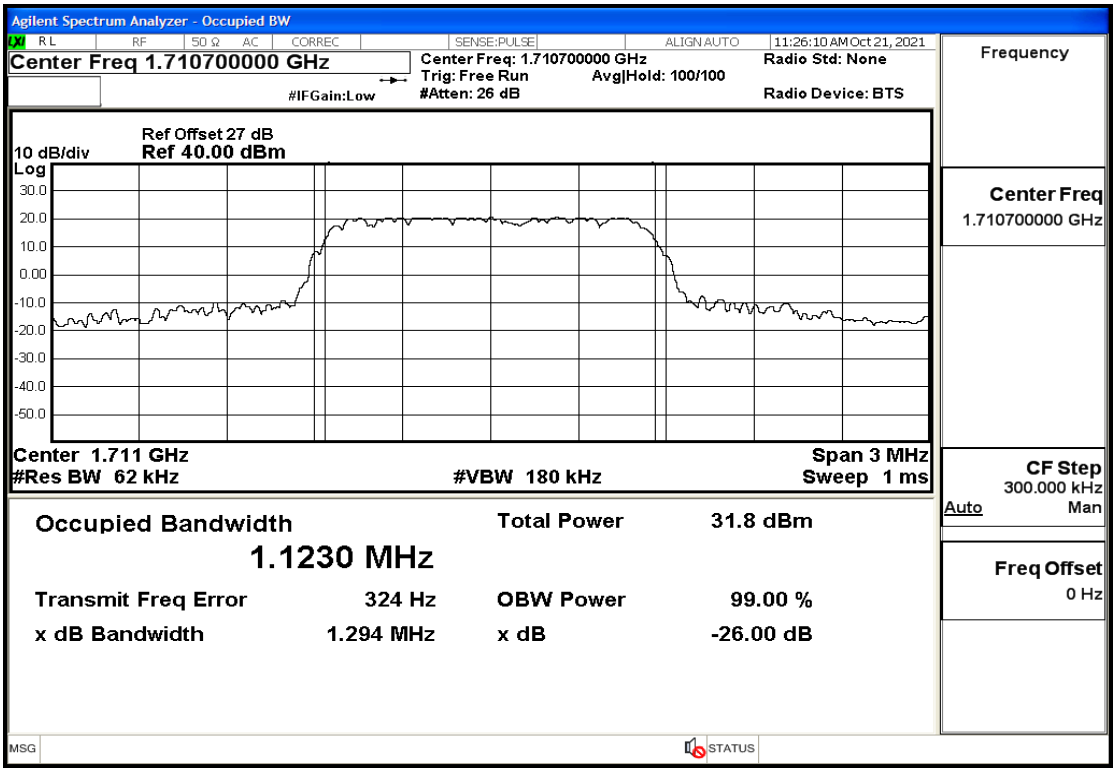
OB4-20-1745-QPSK-1#HIGH@13.6GHz-20GHz@Pass



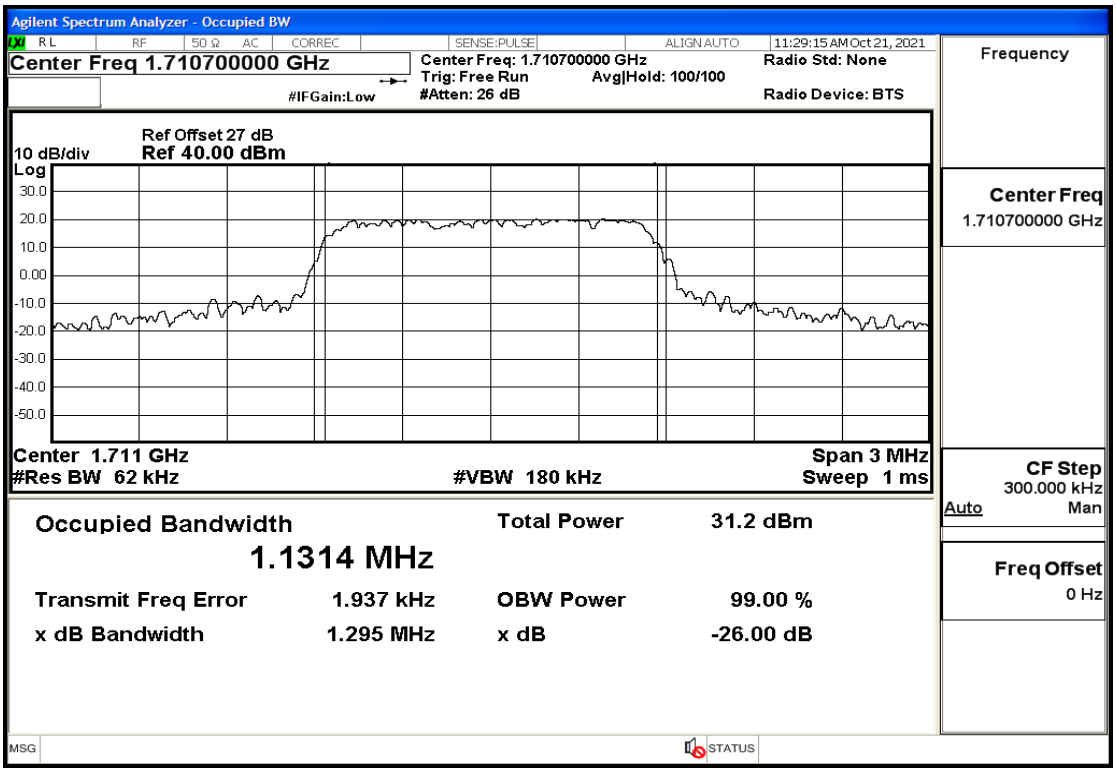
Emission bandwidth and OBW

Band	Bandwidth(MHz)	UL Frequency(MHz)	Modulation	RB Size	RB Offset	Occupied Bandwidth(KHz)	Emission Bandwidth(KHz)	Limit
Band4	1.4	1710.7	QPSK	6	LOW	1123	1294	No limit
Band4	1.4	1710.7	16QAM	6	LOW	1131.4	1295	No limit
Band4	1.4	1732.5	QPSK	6	LOW	1110.8	1291	No limit
Band4	1.4	1732.5	16QAM	6	LOW	1115.6	1298	No limit
Band4	1.4	1754.3	QPSK	6	LOW	1106.3	1299	No limit
Band4	1.4	1754.3	16QAM	6	LOW	1122.9	1312	No limit
Band4	3	1711.5	QPSK	15	LOW	2782.1	3127	No limit
Band4	3	1711.5	16QAM	15	LOW	2771	3056	No limit
Band4	3	1732.5	QPSK	15	LOW	2785.9	3116	No limit
Band4	3	1732.5	16QAM	15	LOW	2770	3108	No limit
Band4	3	1753.5	QPSK	15	LOW	2761.3	3074	No limit
Band4	3	1753.5	16QAM	15	LOW	2762.2	3101	No limit
Band4	5	1712.5	QPSK	25	LOW	4587.8	5067	No limit
Band4	5	1712.5	16QAM	25	LOW	4569	5071	No limit
Band4	5	1732.5	QPSK	25	LOW	4570.2	5071	No limit
Band4	5	1732.5	16QAM	25	LOW	4591.4	5123	No limit
Band4	5	1752.5	QPSK	25	LOW	4579.3	5057	No limit
Band4	5	1752.5	16QAM	25	LOW	4574	5091	No limit
Band4	10	1715	QPSK	50	LOW	9156.3	10200	No limit
Band4	10	1715	16QAM	50	LOW	9106.3	10190	No limit
Band4	10	1732.5	QPSK	50	LOW	9122.8	9978	No limit
Band4	10	1732.5	16QAM	50	LOW	9108.4	10120	No limit
Band4	10	1750	QPSK	50	LOW	9144.2	10100	No limit
Band4	10	1750	16QAM	50	LOW	9153.7	10030	No limit
Band4	15	1717.5	QPSK	75	LOW	13696	15410	No limit
Band4	15	1717.5	16QAM	75	LOW	13666	15170	No limit
Band4	15	1732.5	QPSK	75	LOW	13648	15290	No limit
Band4	15	1732.5	16QAM	75	LOW	13682	15330	No limit
Band4	15	1747.5	QPSK	75	LOW	13718	15180	No limit
Band4	15	1747.5	16QAM	75	LOW	13736	15350	No limit
Band4	20	1720	QPSK	100	LOW	18280	20140	No limit
Band4	20	1720	16QAM	100	LOW	18293	20120	No limit
Band4	20	1732.5	QPSK	100	LOW	18223	19880	No limit
Band4	20	1732.5	16QAM	100	LOW	18277	20260	No limit
Band4	20	1745	QPSK	100	LOW	18278	20230	No limit
Band4	20	1745	16QAM	100	LOW	18270	20430	No limit

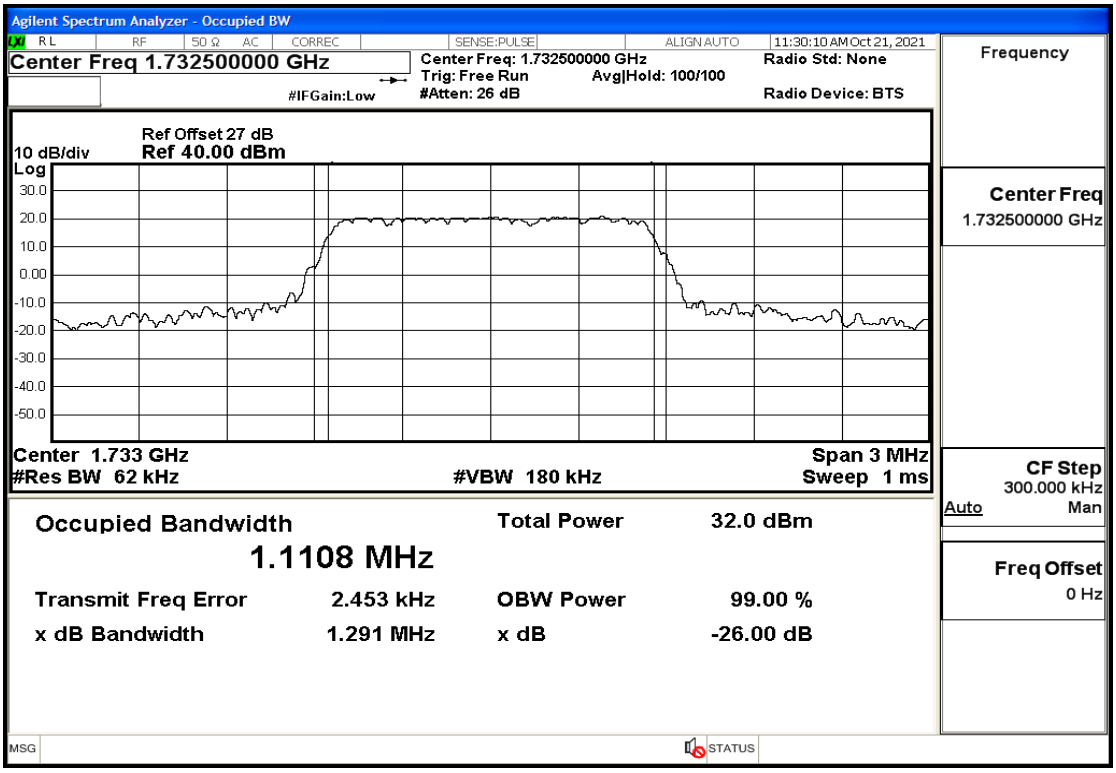
Band4-1.4-1710.7-QPSK-6#LOW@26dB and 99PCT Bandwidth



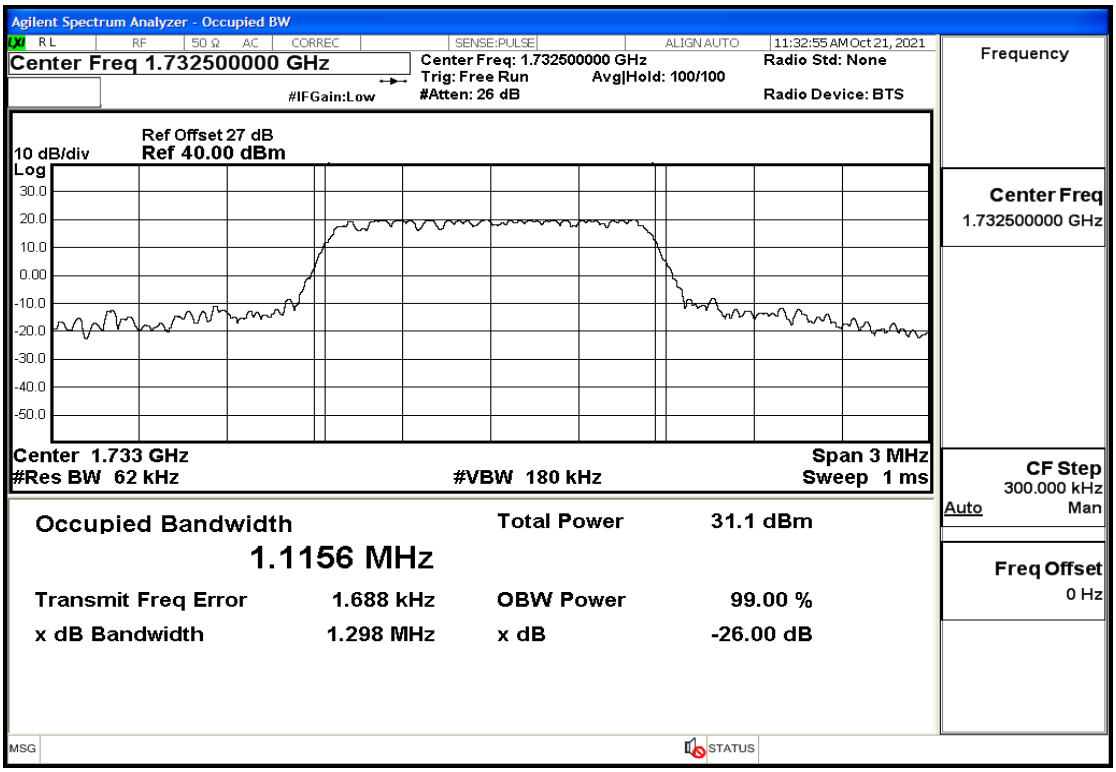
Band4-1.4-1710.7-16QAM-6#LOW@26dB and 99PCT Bandwidth



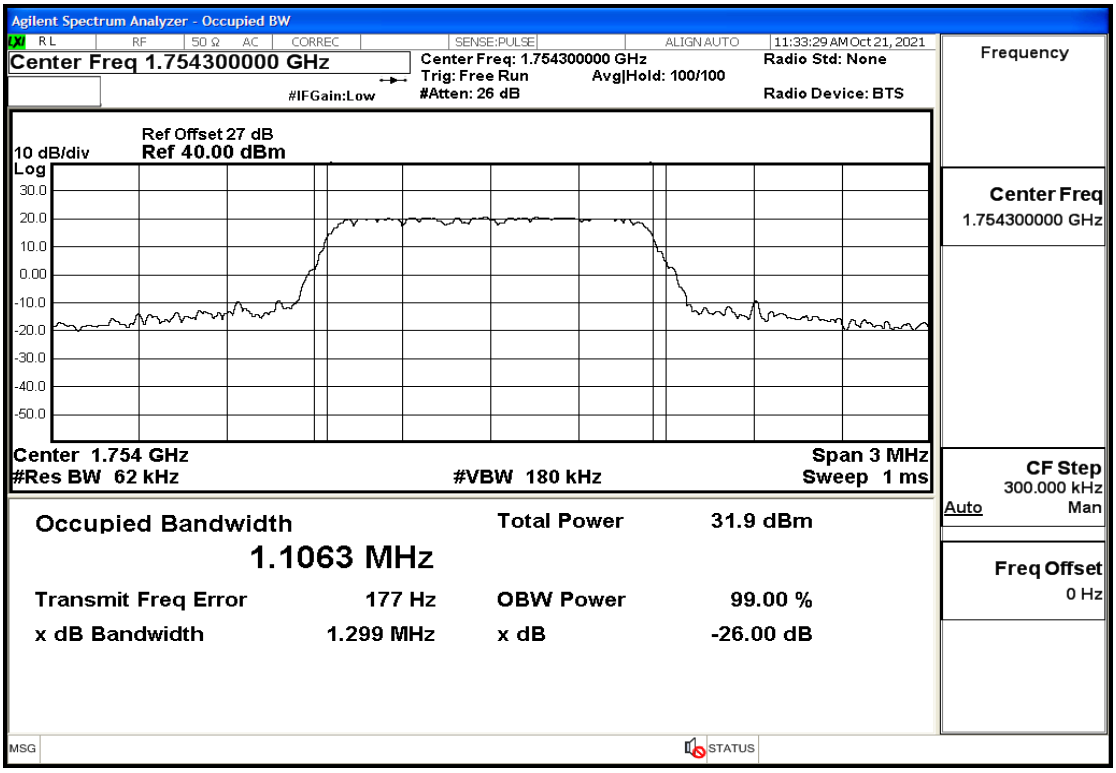
Band4-1.4-1732.5-QPSK-6#LOW@26dB and 99PCT Bandwidth



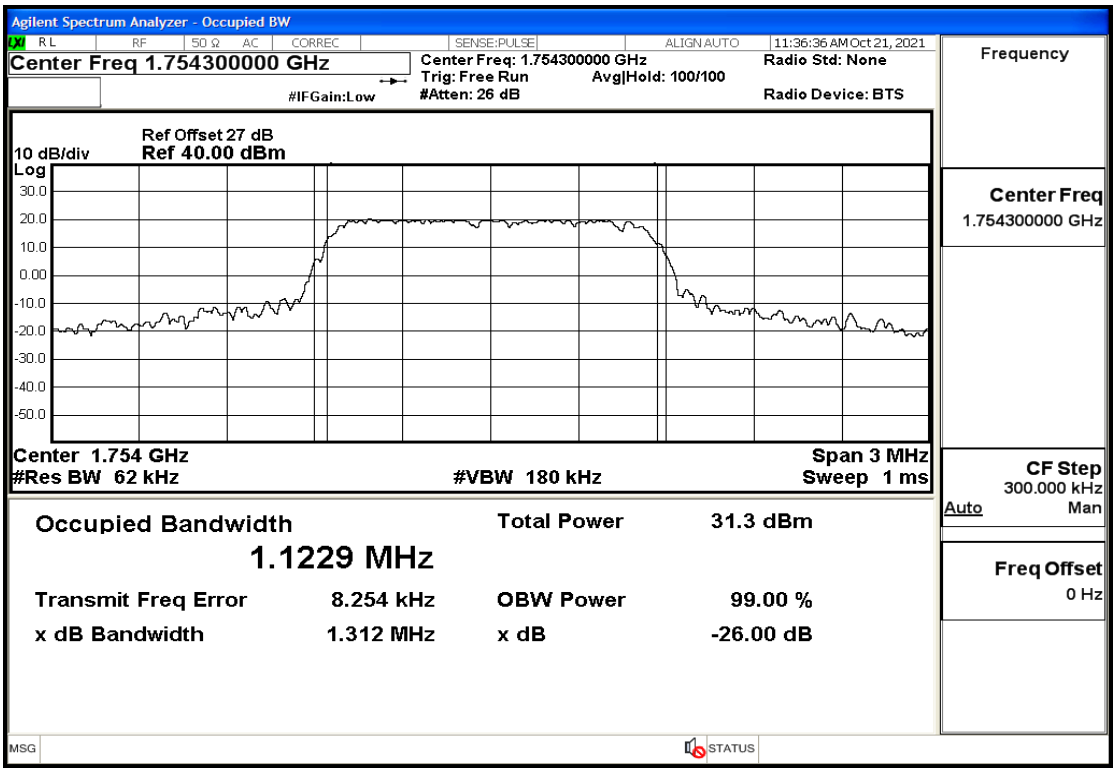
Band4-1.4-1732.5-16QAM-6#LOW@26dB and 99PCT Bandwidth



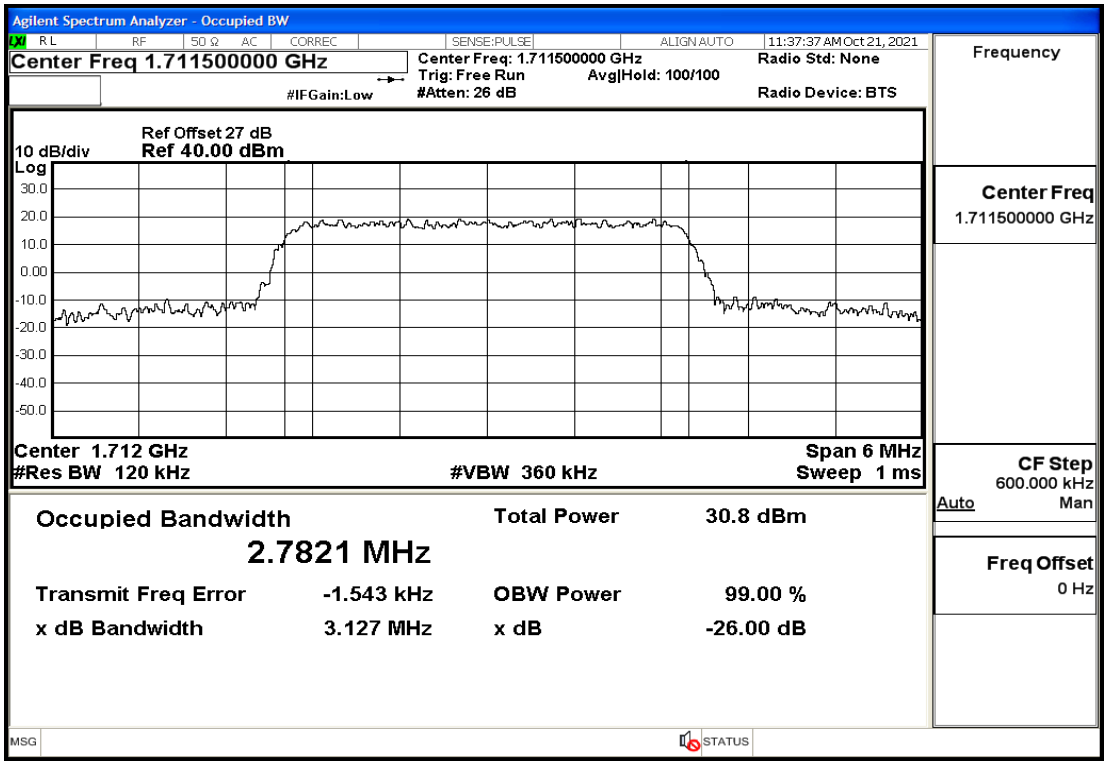
Band4-1.4-1754.3-QPSK-6#LOW@26dB and 99PCT Bandwidth



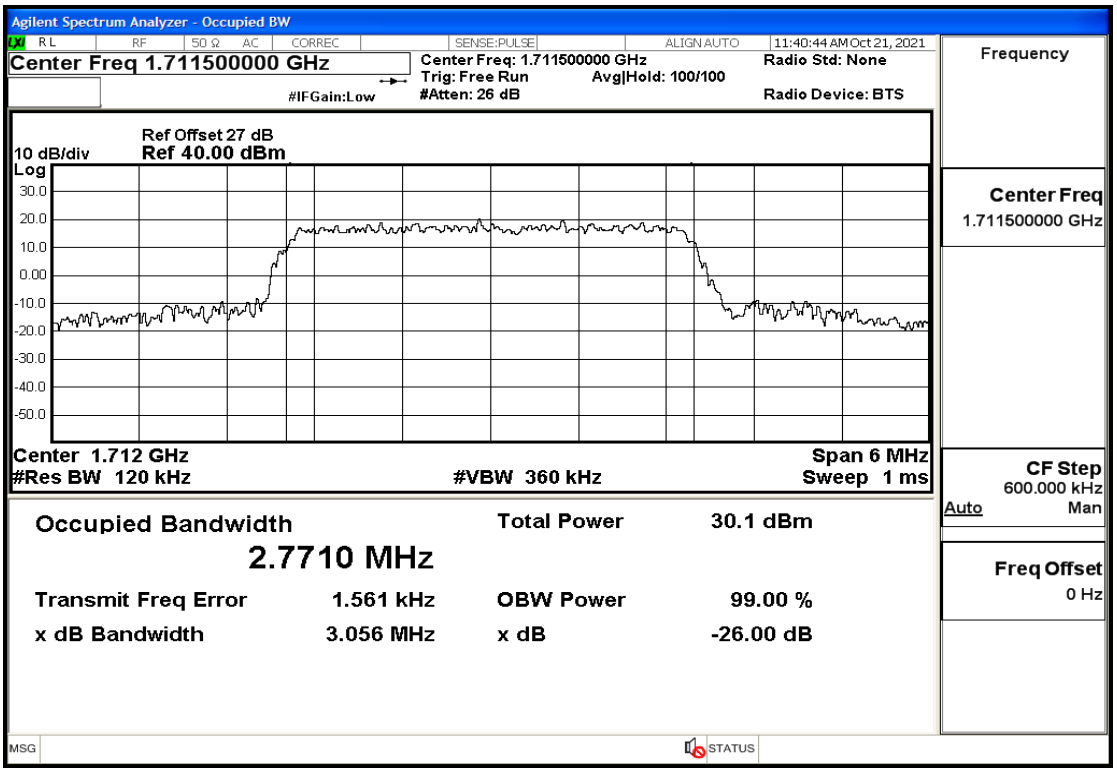
Band4-1.4-1754.3-16QAM-6#LOW@26dB and 99PCT Bandwidth



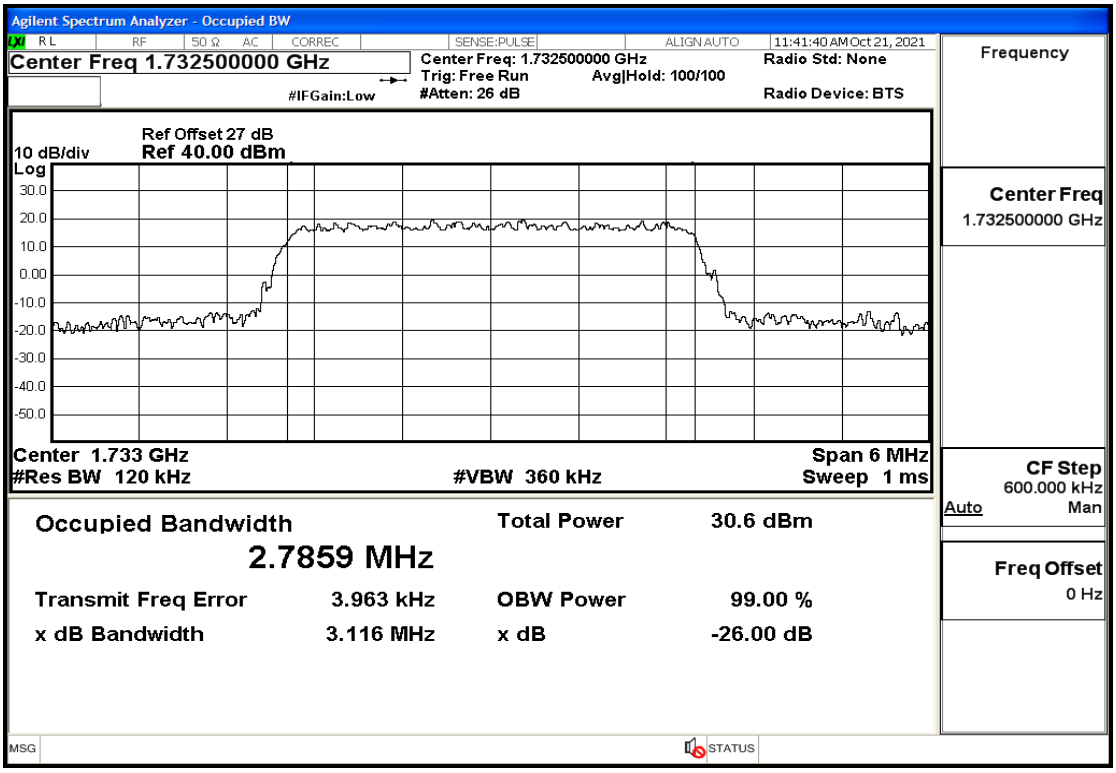
Band4-3-1711.5-QPSK-15#LOW@26dB and 99PCT Bandwidth



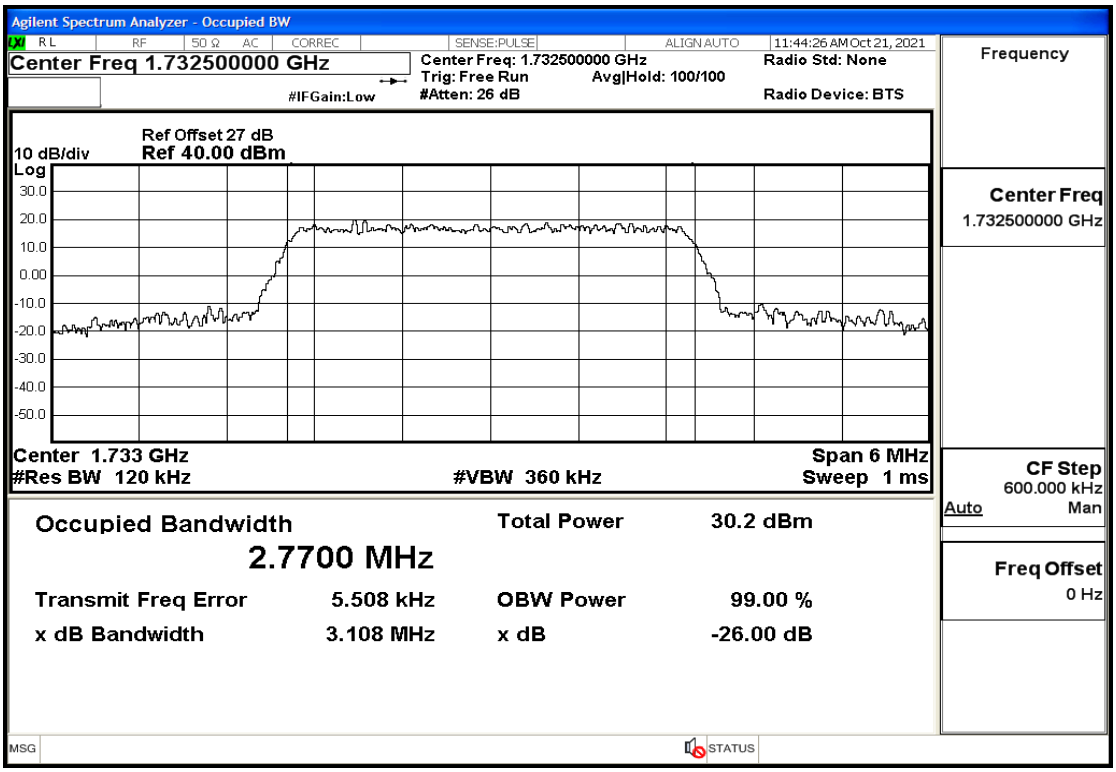
Band4-3-1711.5-16QAM-15#LOW@26dB and 99PCT Bandwidth



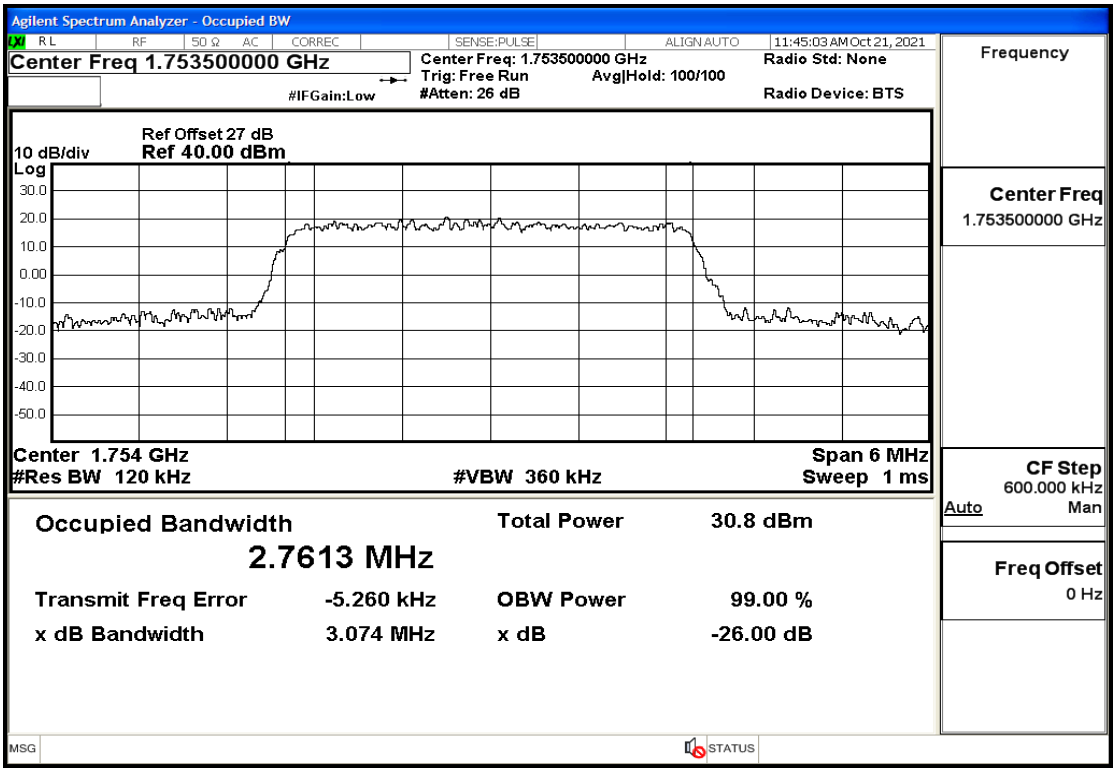
Band4-3-1732.5-QPSK-15#LOW@26dB and 99PCT Bandwidth



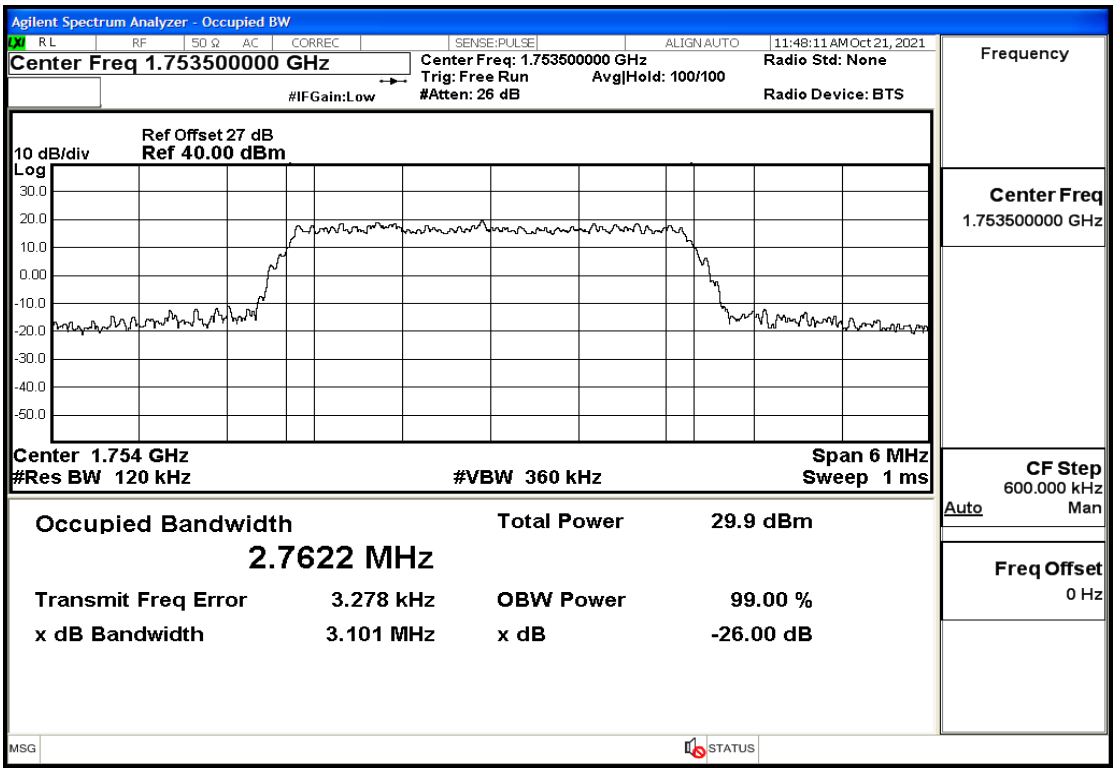
Band4-3-1732.5-16QAM-15#LOW@26dB and 99PCT Bandwidth



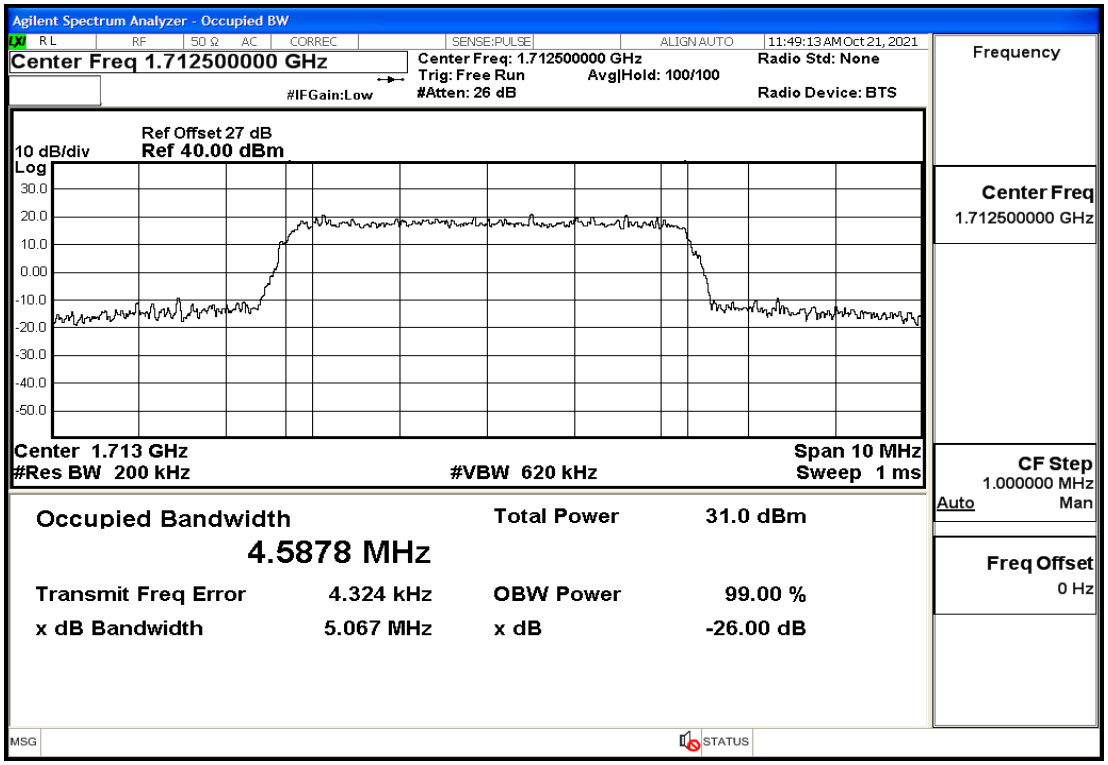
Band4-3-1753.5-QPSK-15#LOW@26dB and 99PCT Bandwidth



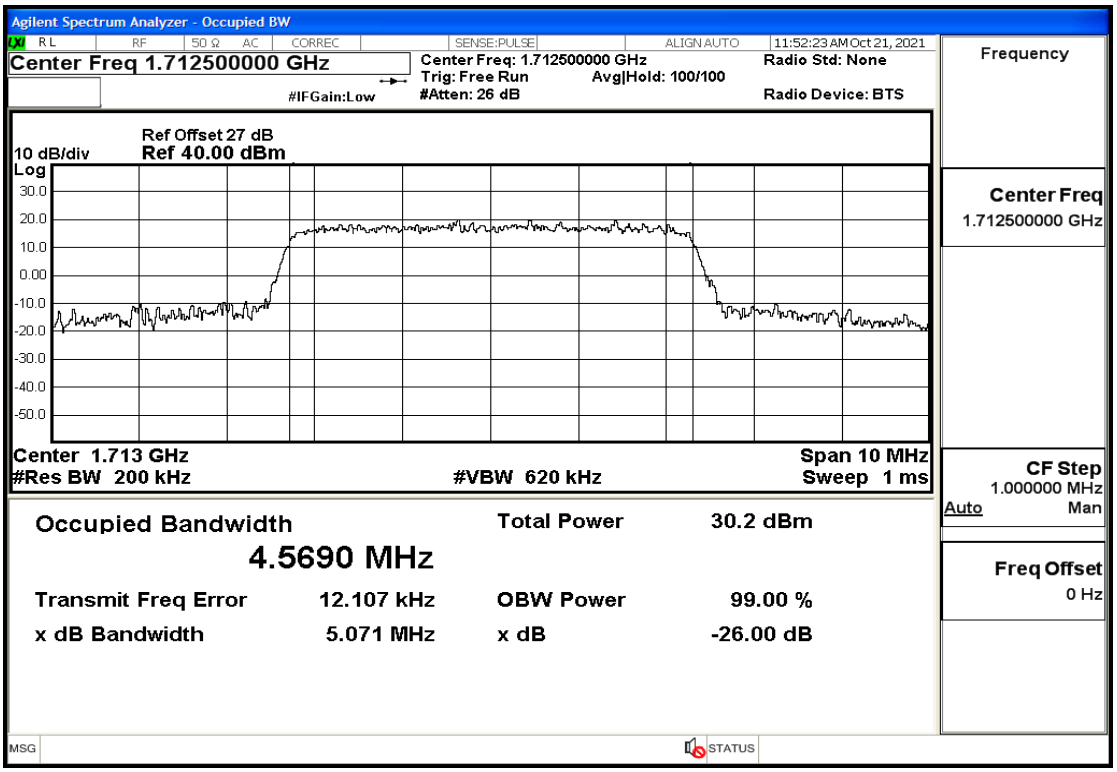
Band4-3-1753.5-16QAM-15#LOW@26dB and 99PCT Bandwidth



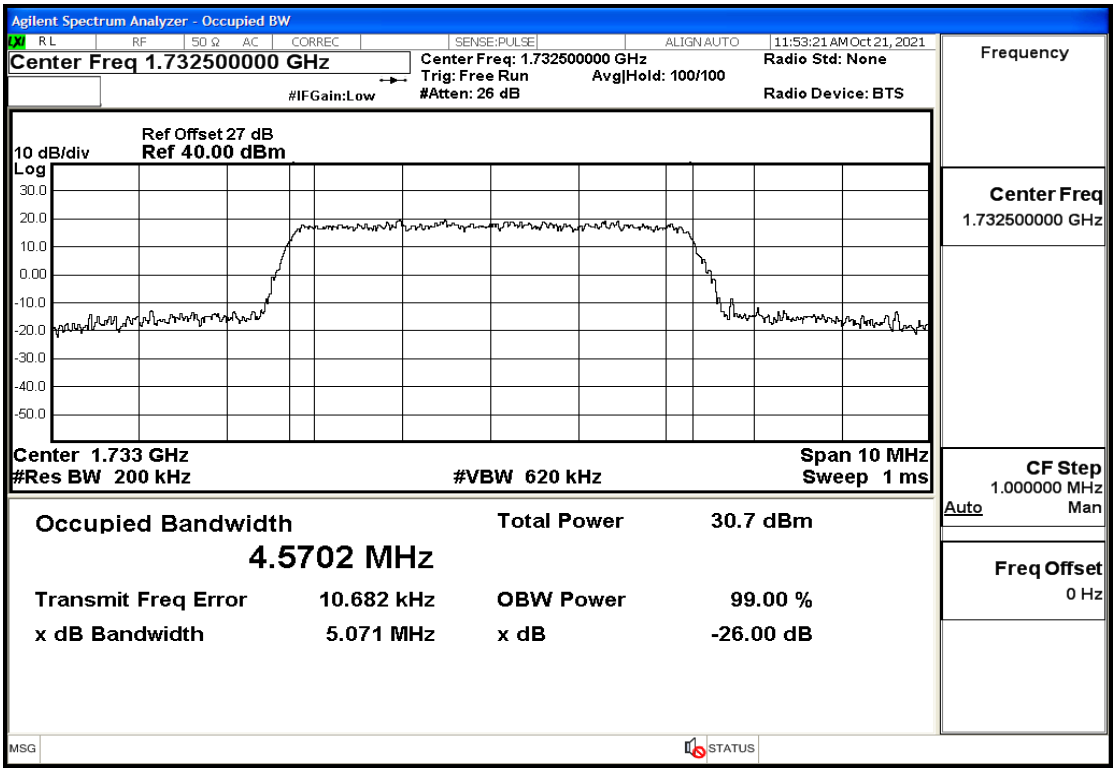
Band4-5-1712.5-QPSK-25#LOW@26dB and 99PCT Bandwidth



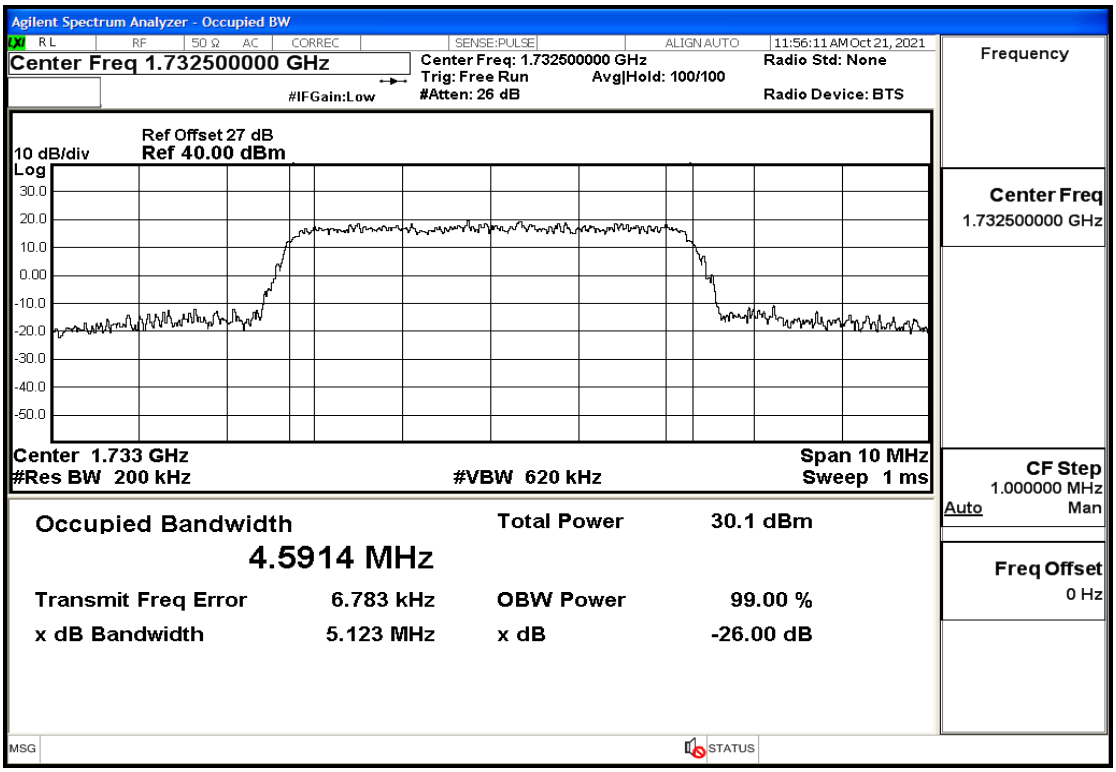
Band4-5-1712.5-16QAM-25#LOW@26dB and 99PCT Bandwidth



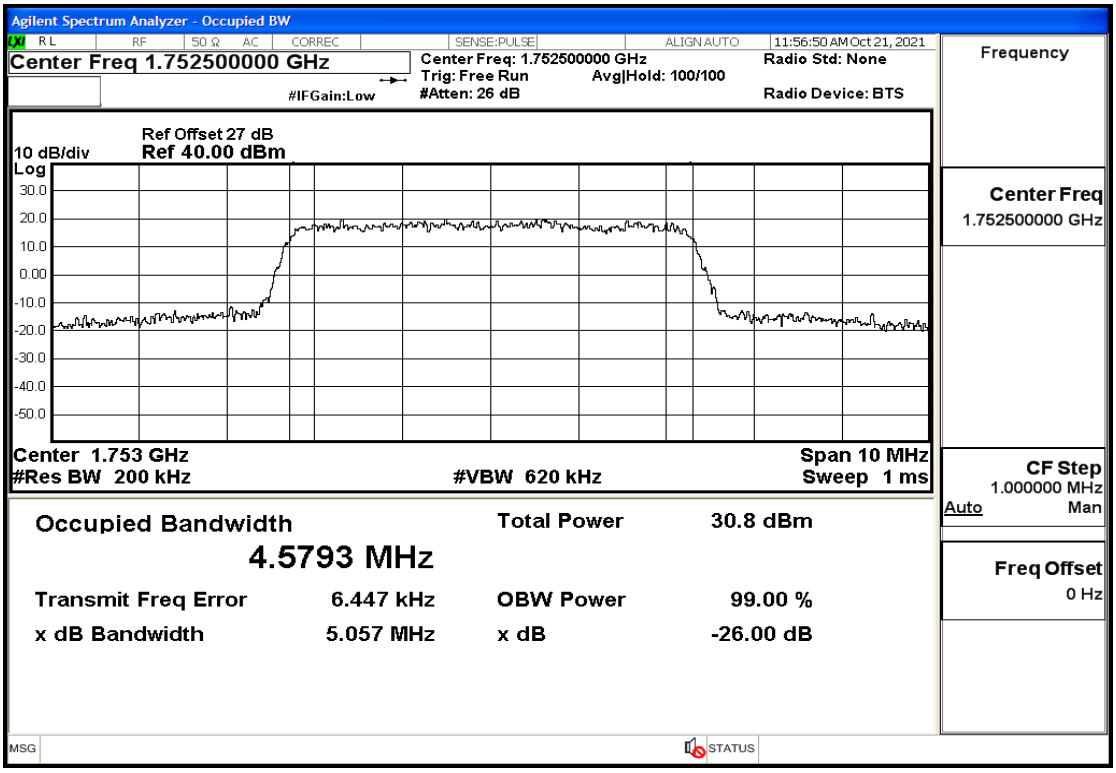
Band4-5-1732.5-QPSK-25#LOW@26dB and 99PCT Bandwidth



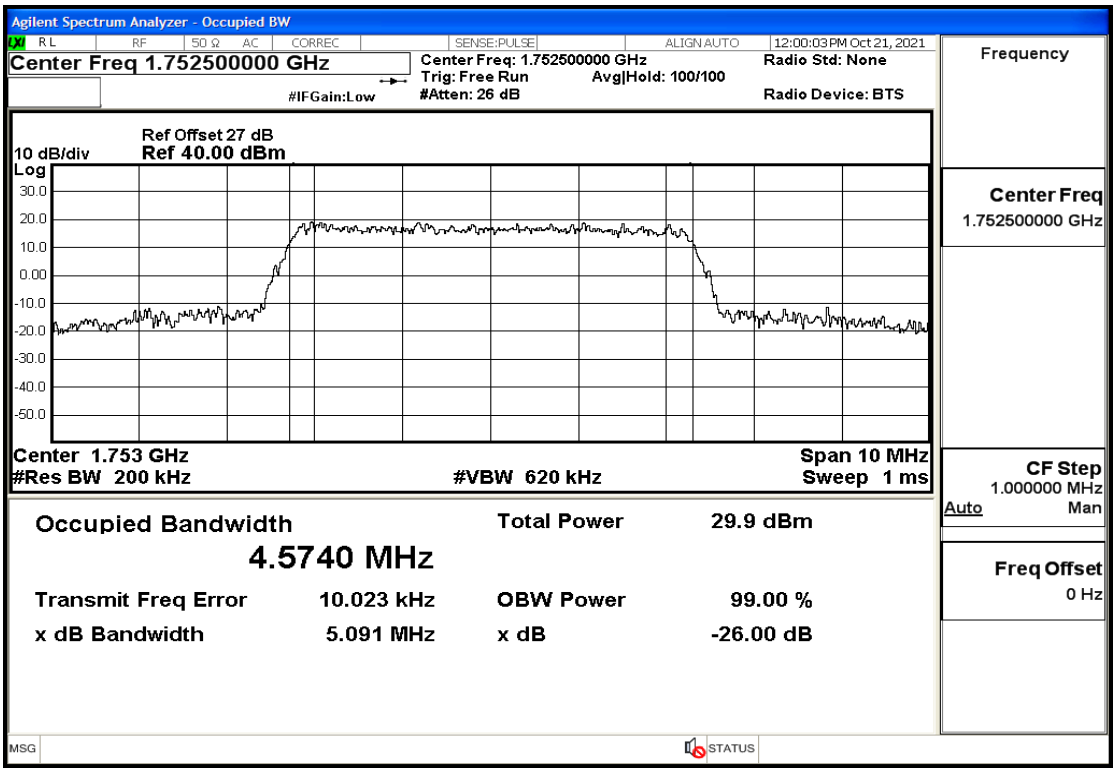
Band4-5-1732.5-16QAM-25#LOW@26dB and 99PCT Bandwidth



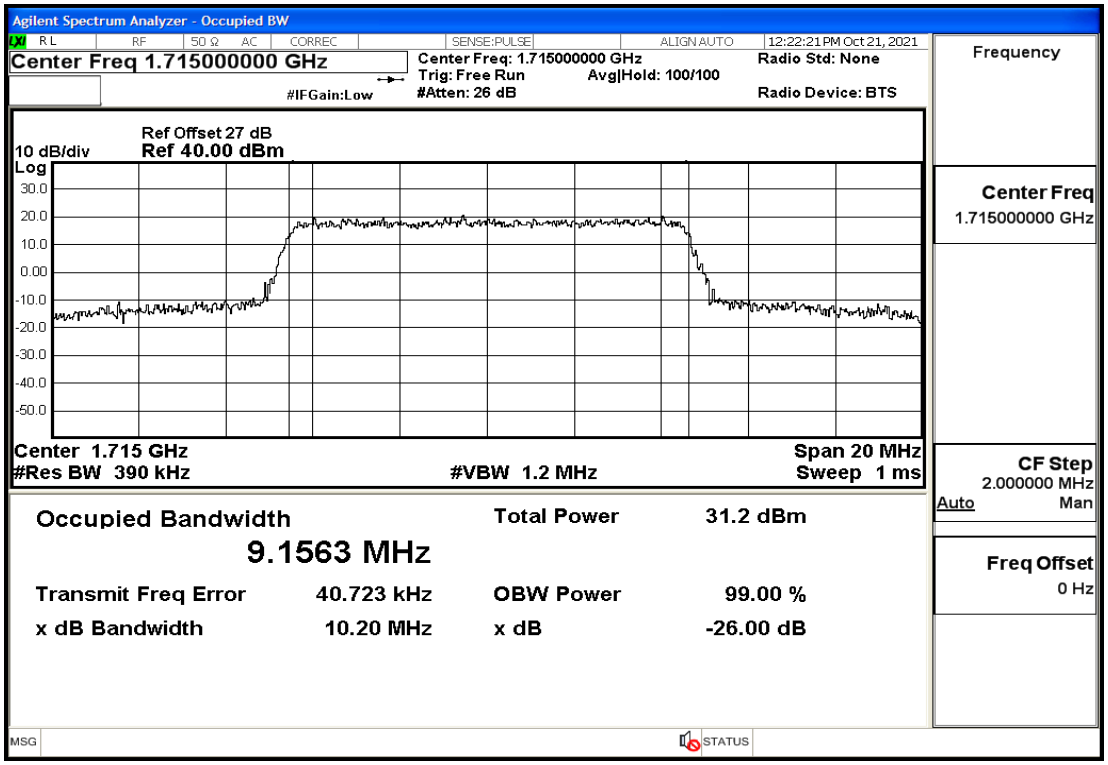
Band4-5-1752.5-QPSK-25#LOW@26dB and 99PCT Bandwidth



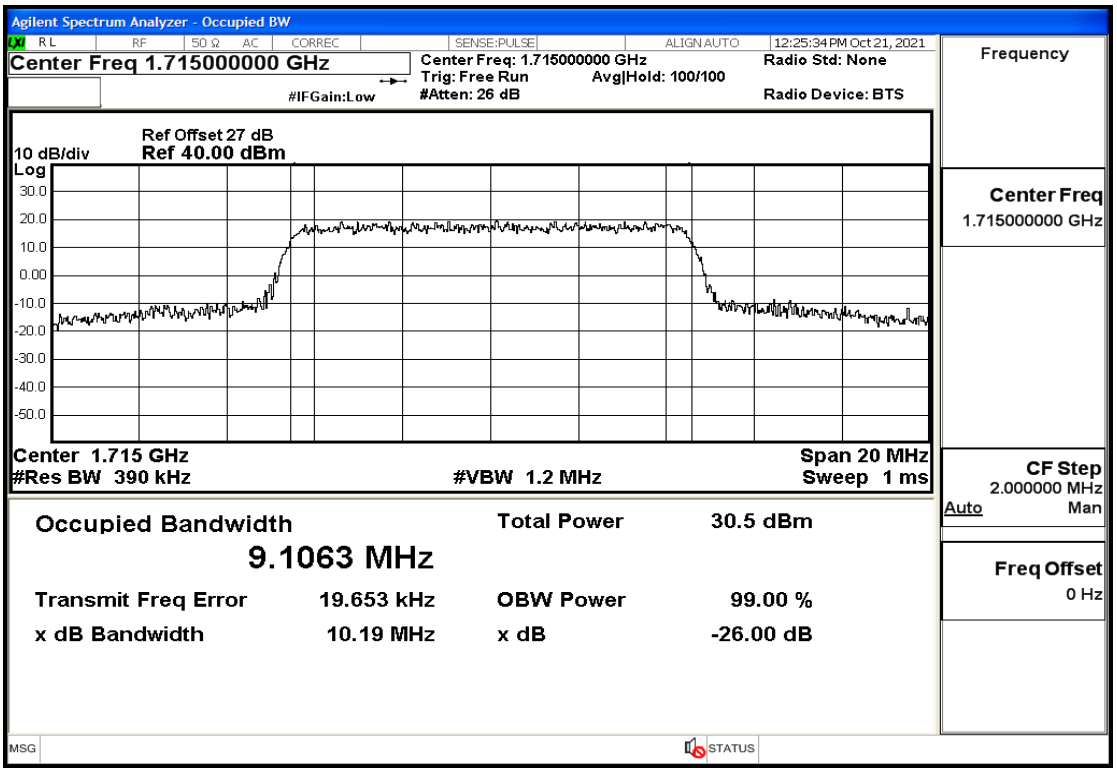
Band4-5-1752.5-16QAM-25#LOW@26dB and 99PCT Bandwidth



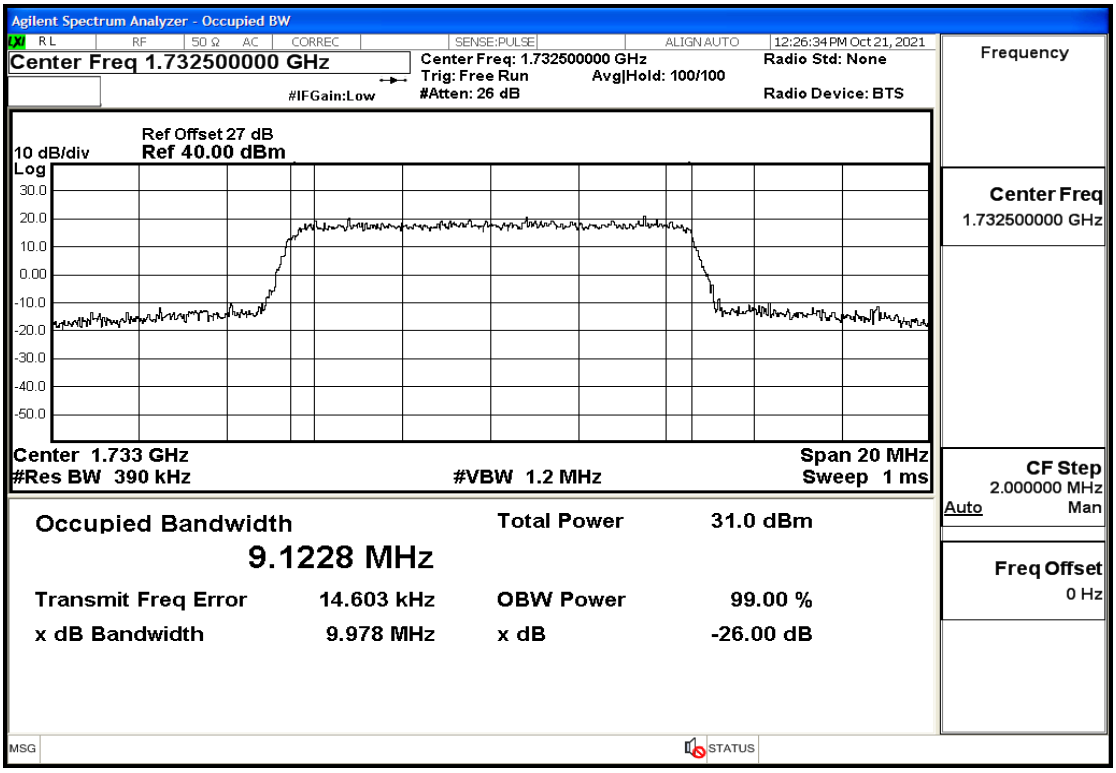
Band4-10-1715-QPSK-50#LOW@26dB and 99PCT Bandwidth



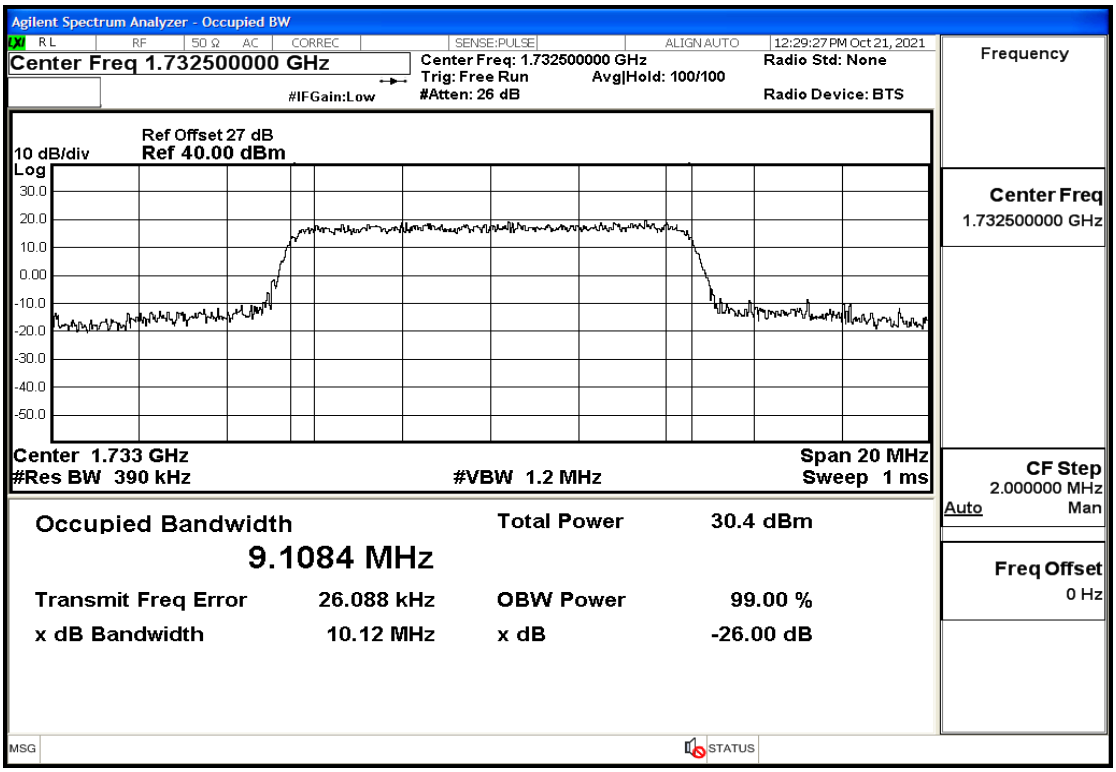
Band4-10-1715-16QAM-50#LOW@26dB and 99PCT Bandwidth



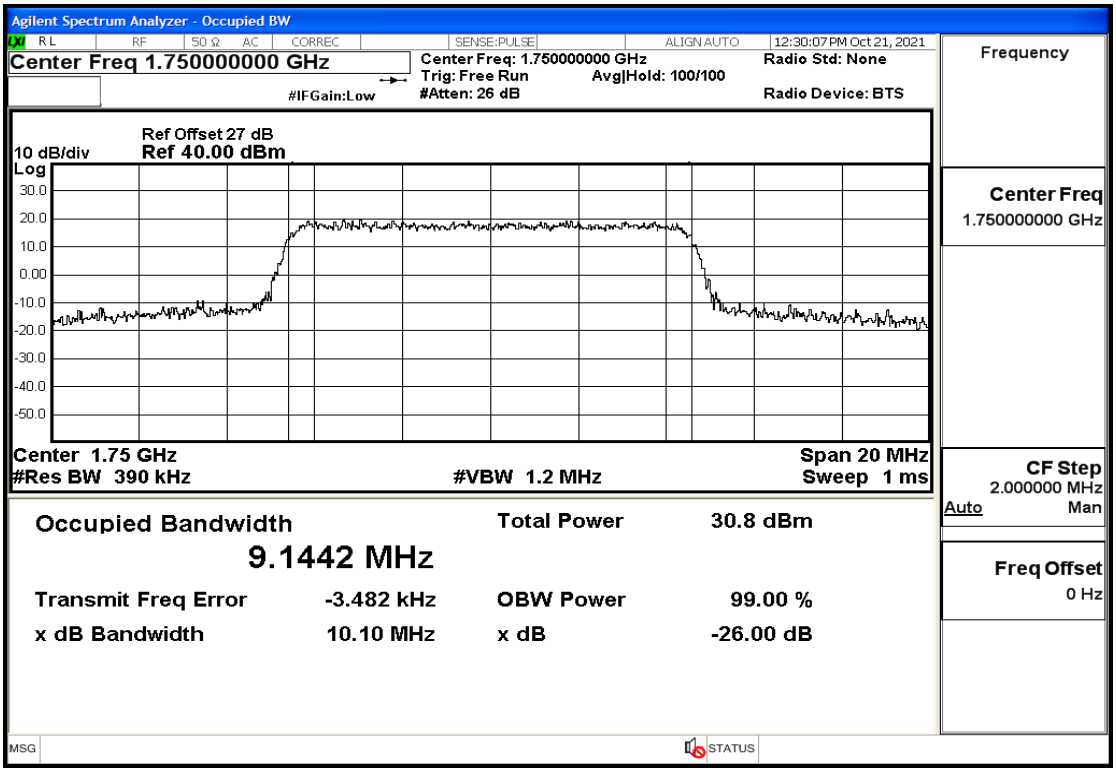
Band4-10-1732.5-QPSK-50#LOW@26dB and 99PCT Bandwidth



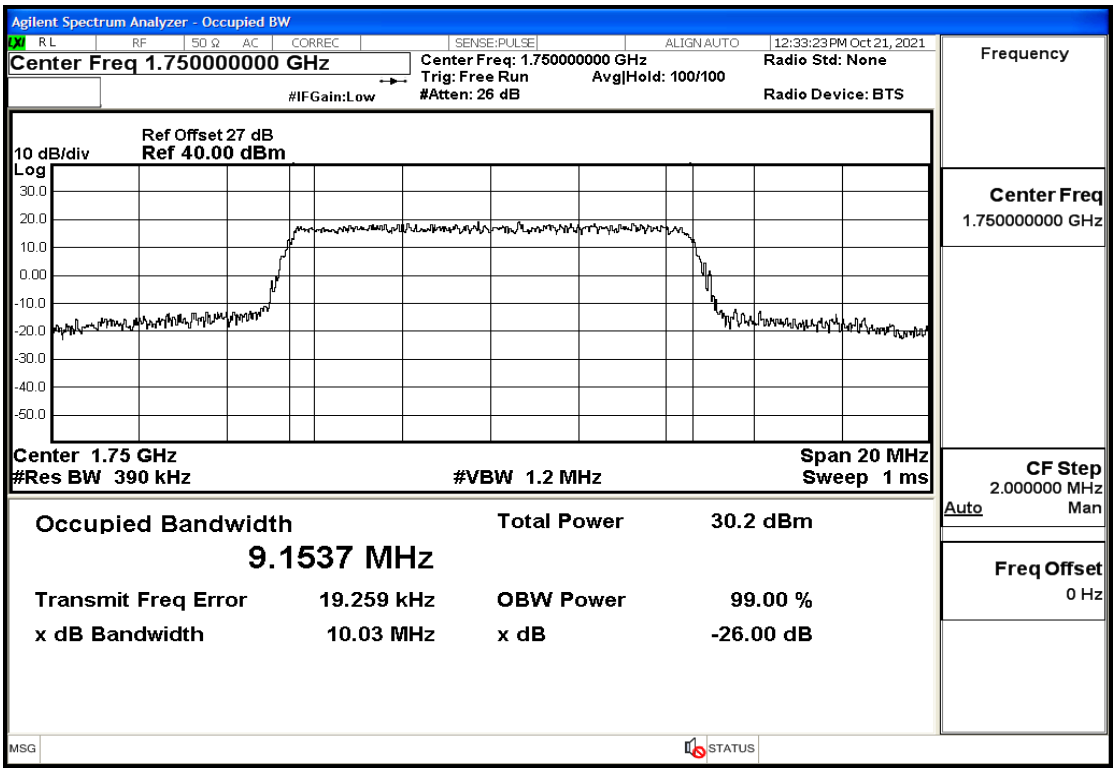
Band4-10-1732.5-16QAM-50#LOW@26dB and 99PCT Bandwidth



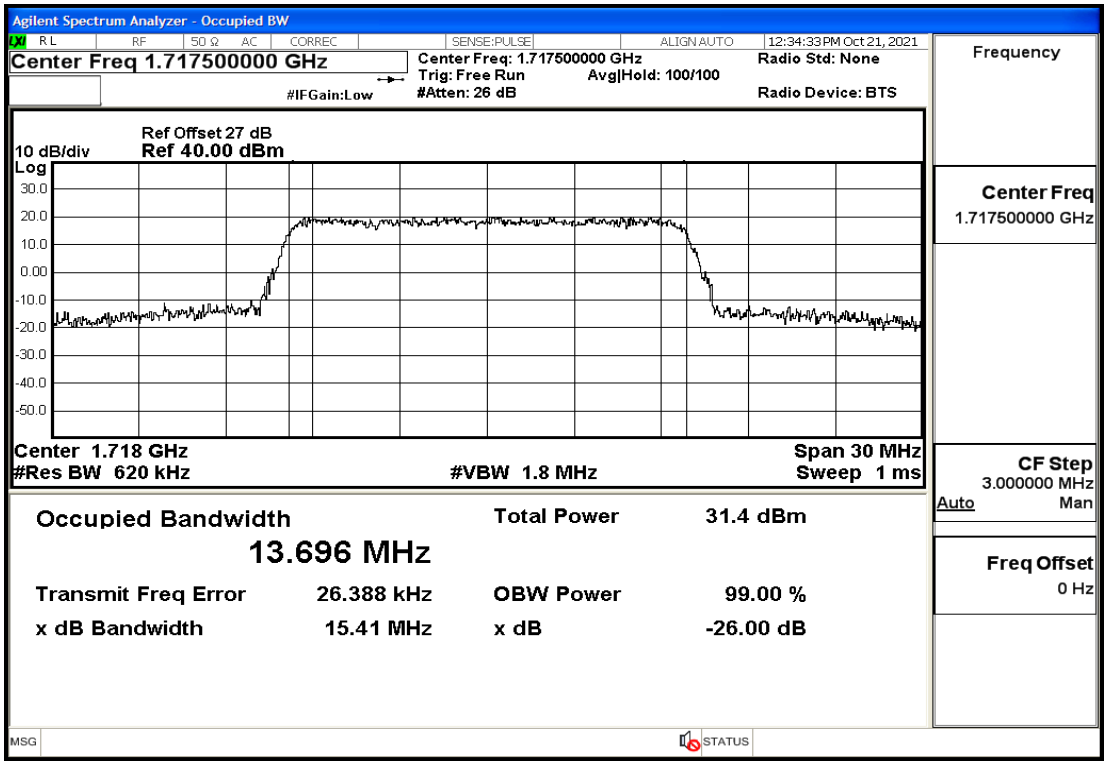
Band4-10-1750-QPSK-50#LOW@26dB and 99PCT Bandwidth



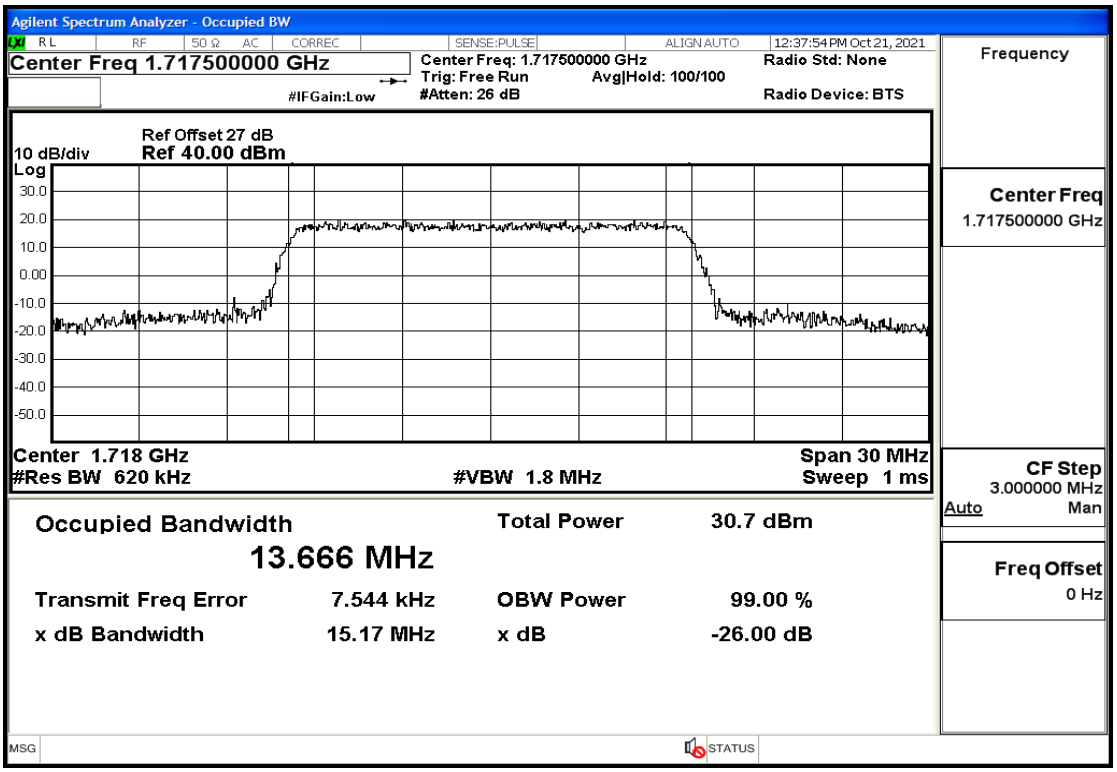
Band4-10-1750-16QAM-50#LOW@26dB and 99PCT Bandwidth



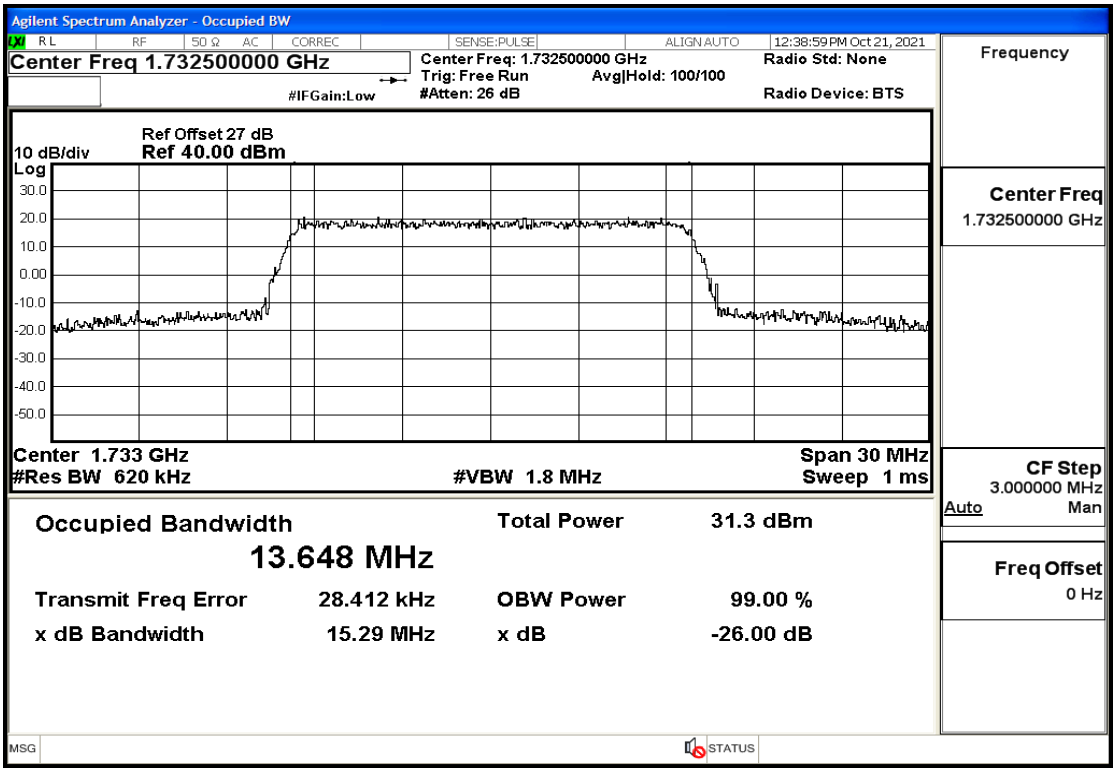
Band4-15-1717.5-QPSK-75#LOW@26dB and 99PCT Bandwidth



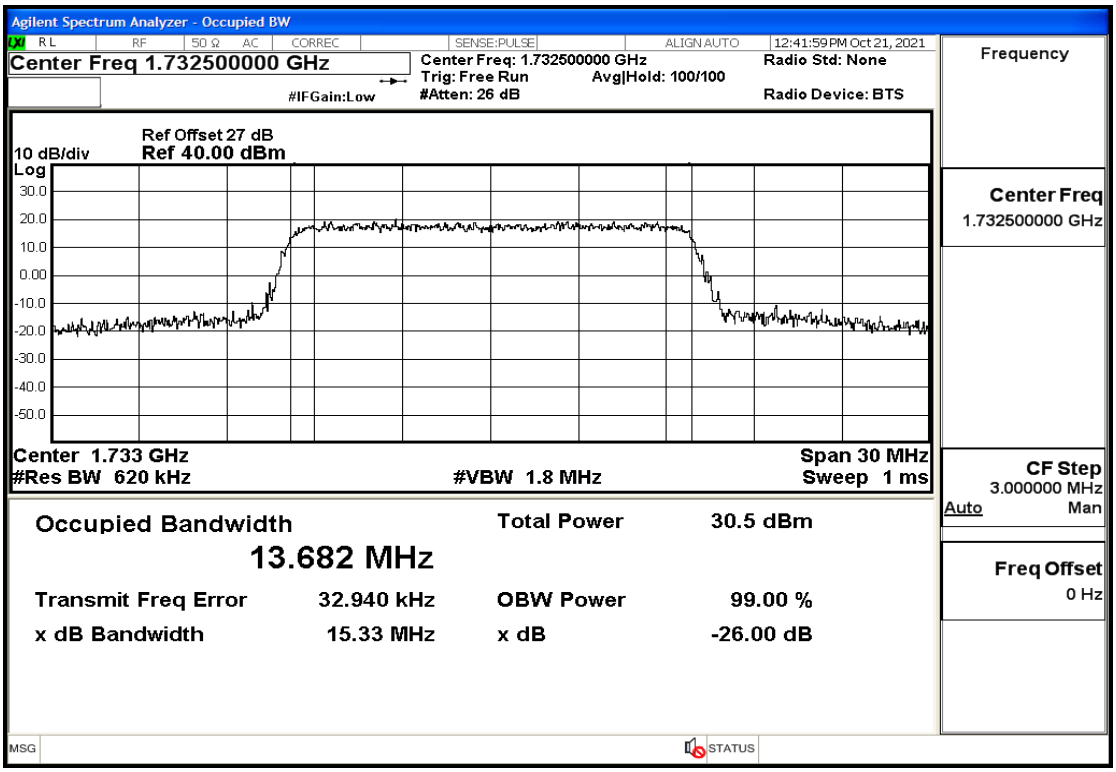
Band4-15-1717.5-16QAM-75#LOW@26dB and 99PCT Bandwidth



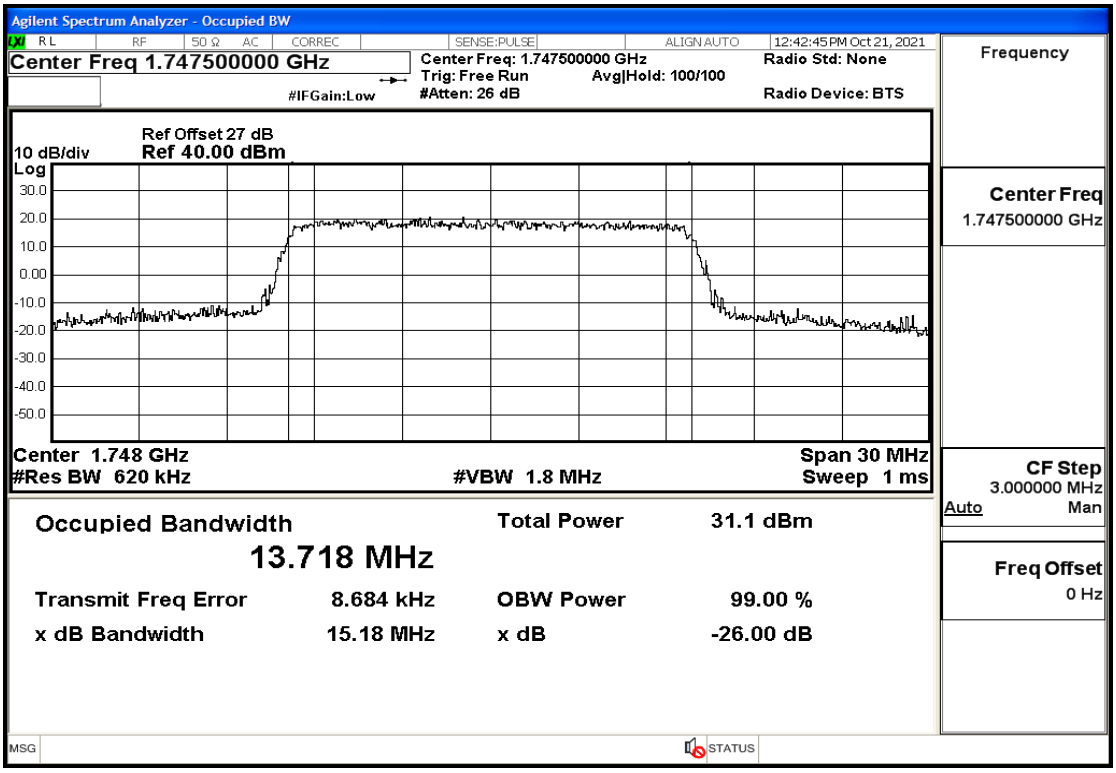
Band4-15-1732.5-QPSK-75#LOW@26dB and 99PCT Bandwidth



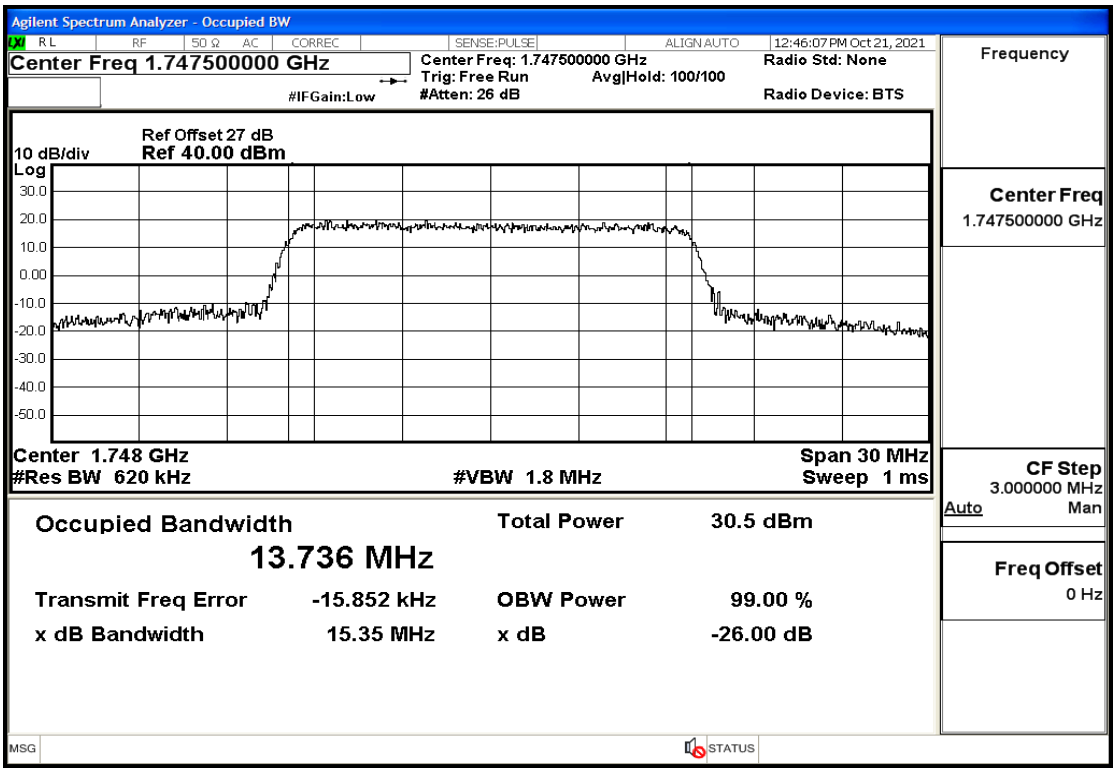
Band4-15-1732.5-16QAM-75#LOW@26dB and 99PCT Bandwidth



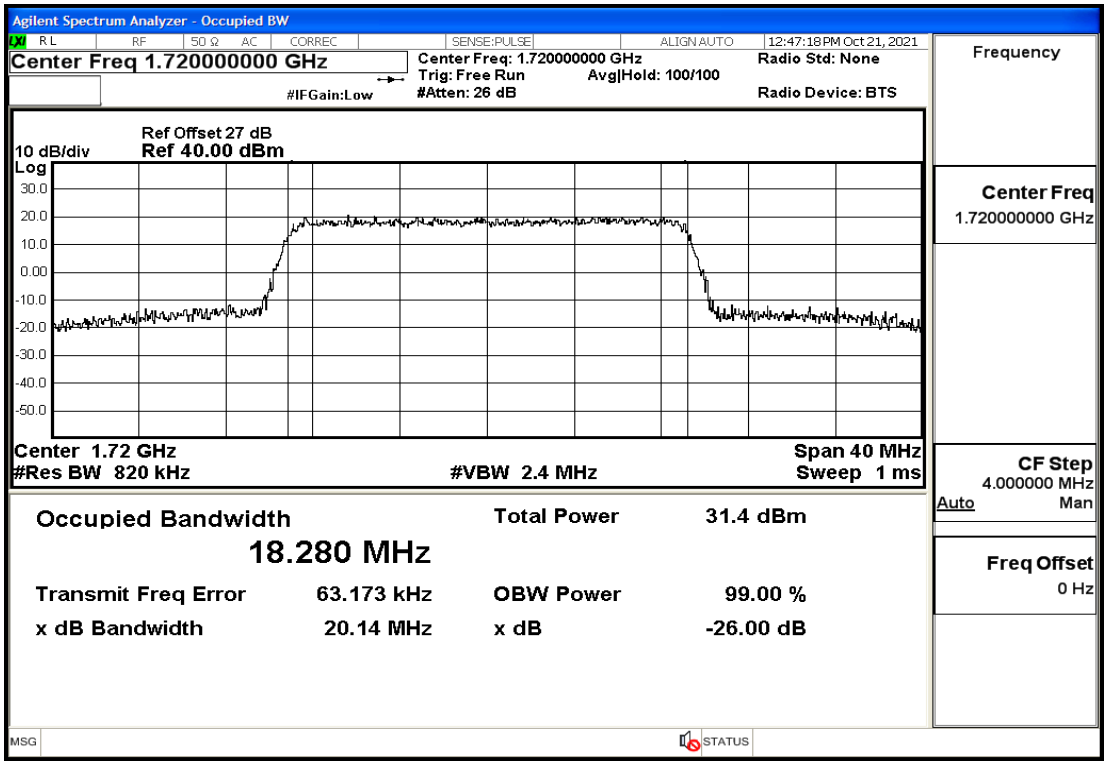
Band4-15-1747.5-QPSK-75#LOW@26dB and 99PCT Bandwidth



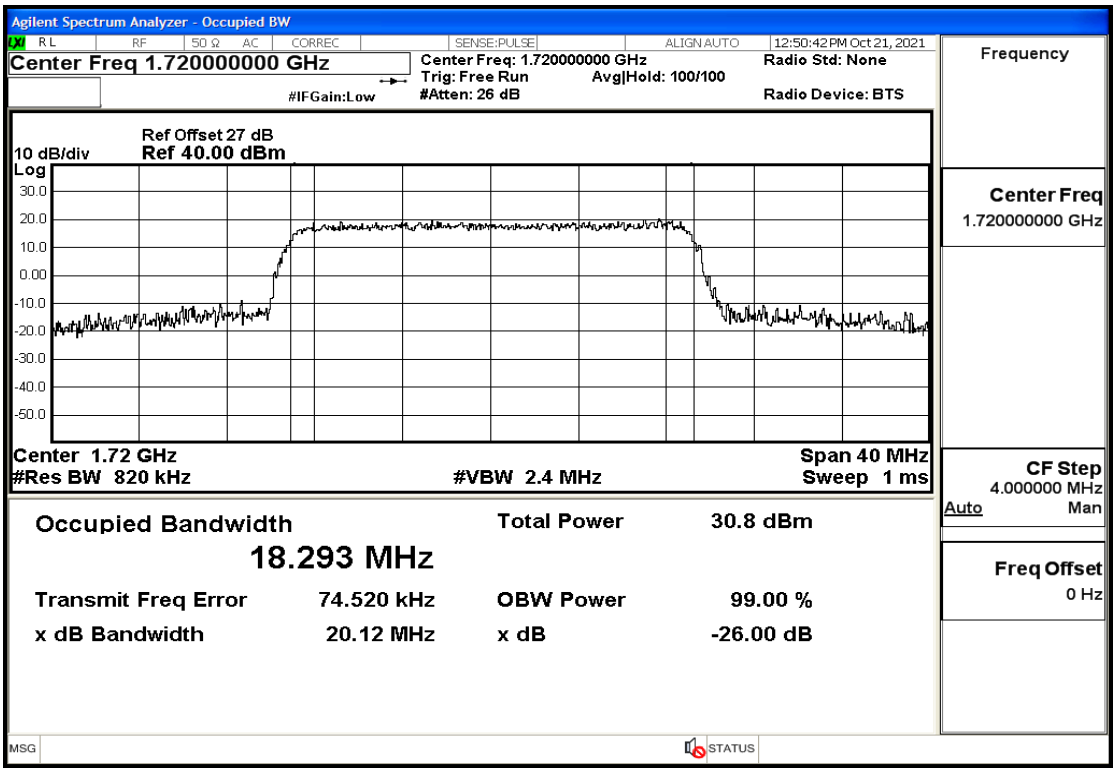
Band4-15-1747.5-16QAM-75#LOW@26dB and 99PCT Bandwidth



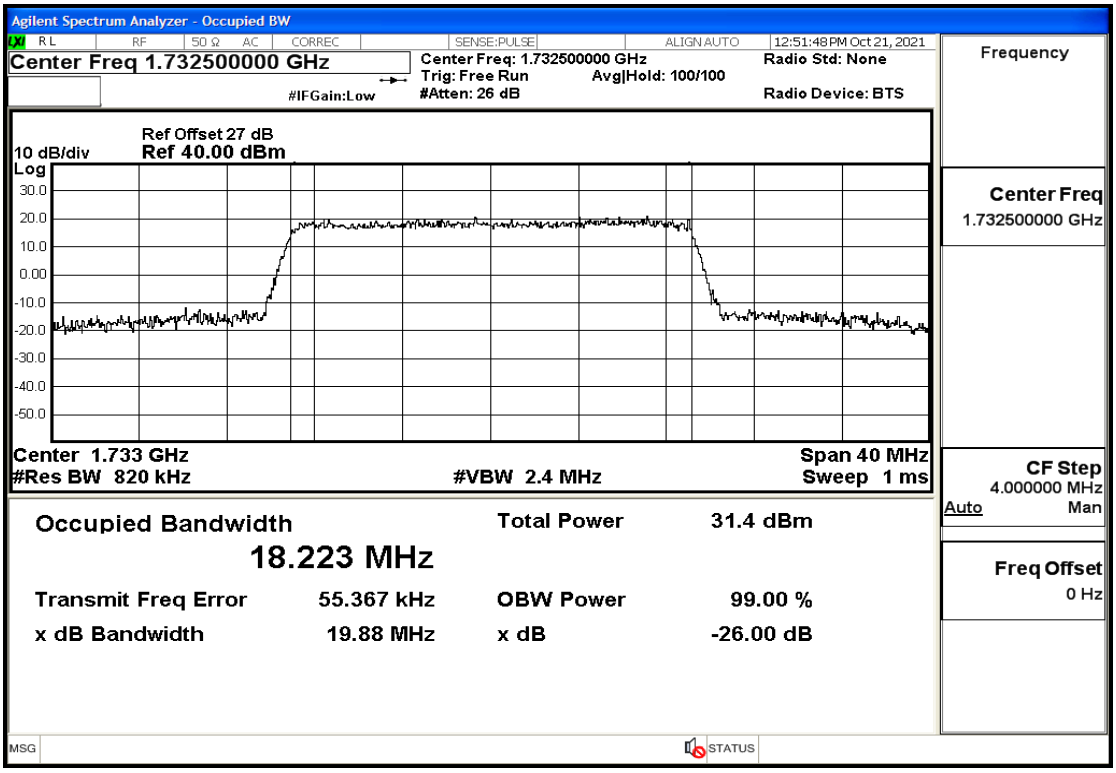
Band4-20-1720-QPSK-100#LOW@26dB and 99PCT Bandwidth



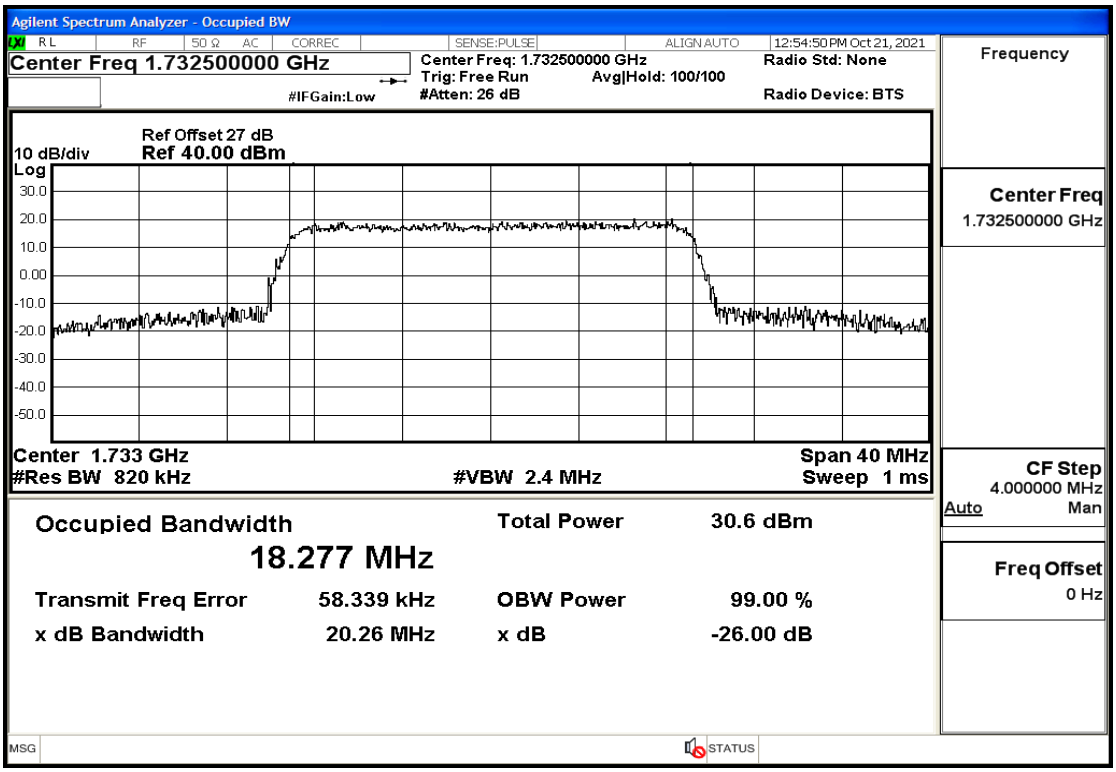
Band4-20-1720-16QAM-100#LOW@26dB and 99PCT Bandwidth



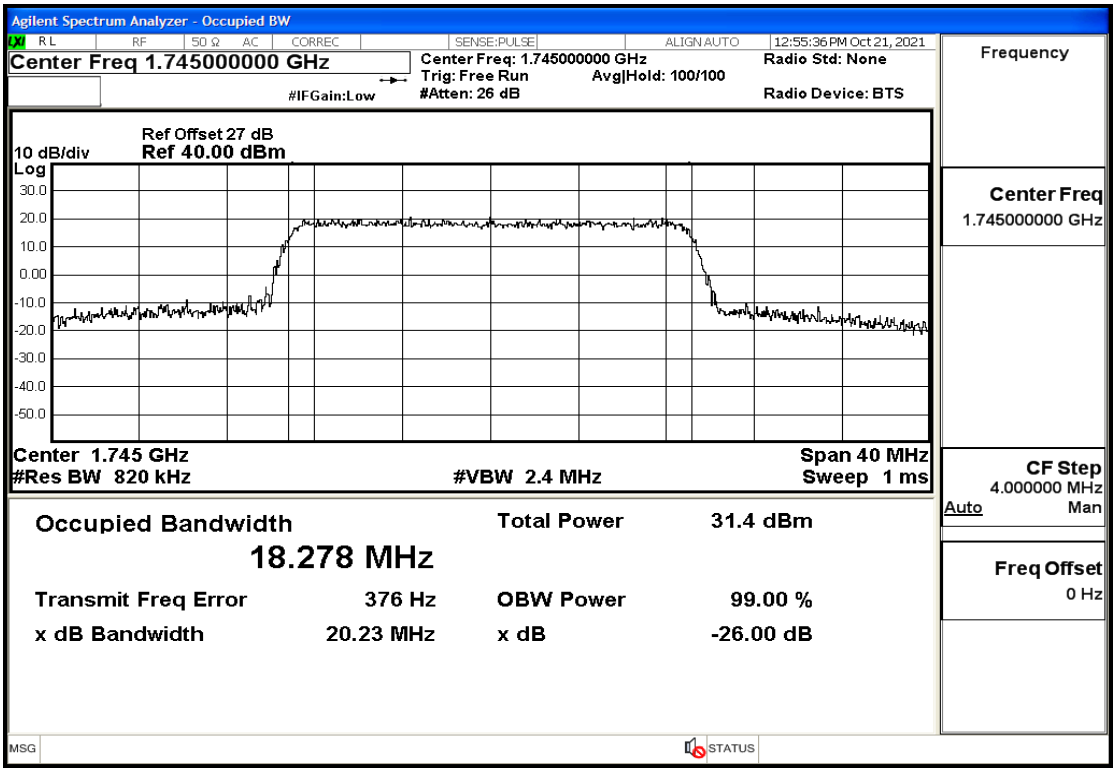
Band4-20-1732.5-QPSK-100#LOW@26dB and 99PCT Bandwidth



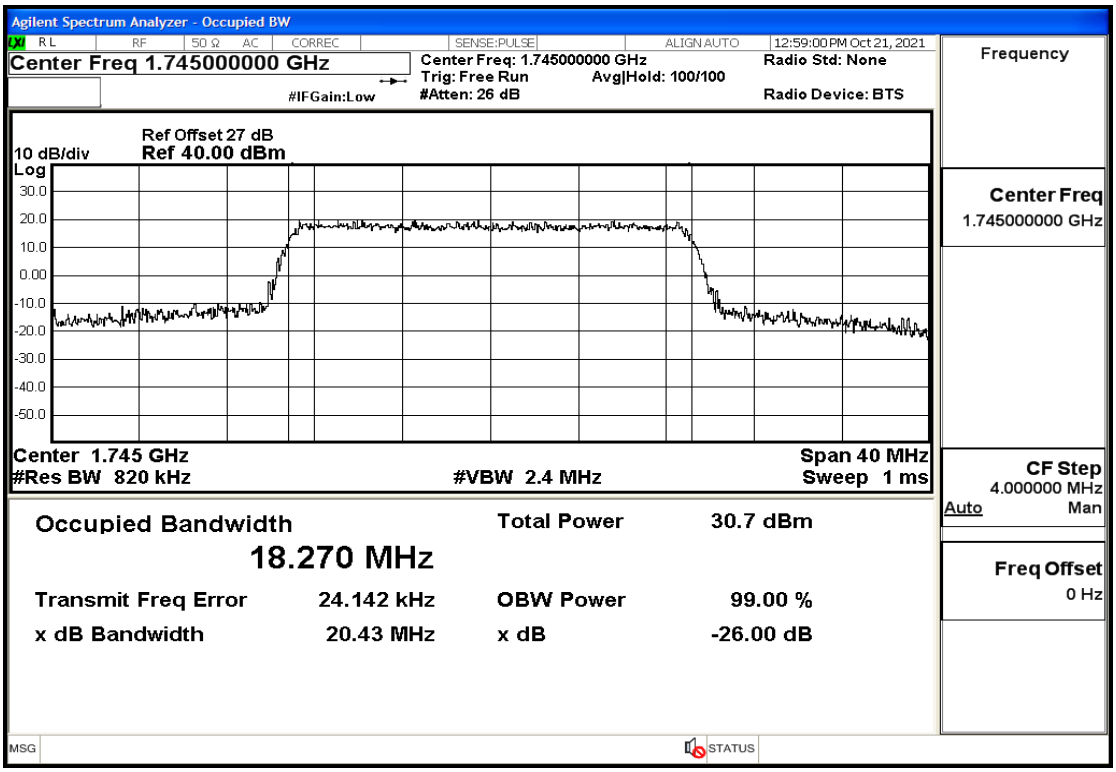
Band4-20-1732.5-16QAM-100#LOW@26dB and 99PCT Bandwidth



Band4-20-1745-QPSK-100#LOW@26dB and 99PCT Bandwidth



Band4-20-1745-16QAM-100#LOW@26dB and 99PCT Bandwidth



Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 5MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0599	PASS
40	Normal Voltage	0.0394	
30	Normal Voltage	0.0161	
20(Ref.)	Normal Voltage	0.0253	
10	Normal Voltage	0.0651	
0	Normal Voltage	0.0168	
-10	Normal Voltage	0.0431	
-20	Normal Voltage	0.0344	
-30	Normal Voltage	0.0192	
20	Maximum Voltage	0.0194	
20	Normal Voltage	0.0300	
20	Battery End Point	0.0595	

Peak and Average Power

Band	Bandwidth(MHz)	UL Frequency(MHz)	Modulation	RB Size	RB Offset	Average Power	Peak Power	Peak to Average(dB)	limit(dB)	AntGain(dBi)	ERP/EIRP(dBm)	Limit(dBm)	Conclusion
Band4	1.4	1710.7	QPSK	6	LOW	23.35	28.36	5.01	13	0.72	24.07	30	Pass
Band4	1.4	1710.7	QPSK	3	LOW	24.47	27.95	3.48	13	0.72	25.19	30	Pass
Band4	1.4	1710.7	QPSK	3	MID	24.36	28.04	3.68	13	0.72	25.08	30	Pass
Band4	1.4	1710.7	QPSK	3	HIGH	24.39	27.8	3.41	13	0.72	25.11	30	Pass
Band4	1.4	1710.7	QPSK	1	LOW	24.34	27.33	2.99	13	0.72	25.06	30	Pass
Band4	1.4	1710.7	QPSK	1	MID	24.31	27.33	3.02	13	0.72	25.03	30	Pass
Band4	1.4	1710.7	QPSK	1	HIGH	24.31	27.34	3.03	13	0.72	25.03	30	Pass
Band4	1.4	1710.7	16QAM	6	LOW	22.59	28.18	5.59	13	0.72	23.31	30	Pass
Band4	1.4	1710.7	16QAM	3	LOW	23.61	27.92	4.31	13	0.72	24.33	30	Pass
Band4	1.4	1710.7	16QAM	3	MID	23.69	27.96	4.27	13	0.72	24.41	30	Pass
Band4	1.4	1710.7	16QAM	3	HIGH	23.64	27.88	4.24	13	0.72	24.36	30	Pass
Band4	1.4	1710.7	16QAM	1	LOW	24.29	27.5	3.21	13	0.72	25.01	30	Pass
Band4	1.4	1710.7	16QAM	1	MID	24.25	27.48	3.23	13	0.72	24.97	30	Pass
Band4	1.4	1710.7	16QAM	1	HIGH	24.27	27.52	3.25	13	0.72	24.99	30	Pass
Band4	1.4	1732.5	QPSK	6	LOW	23.22	28.2	4.98	13	0.72	23.94	30	Pass
Band4	1.4	1732.5	QPSK	3	LOW	24.26	28.1	3.84	13	0.72	24.98	30	Pass
Band4	1.4	1732.5	QPSK	3	MID	24.25	28.05	3.8	13	0.72	24.97	30	Pass
Band4	1.4	1732.5	QPSK	3	HIGH	24.24	28.03	3.79	13	0.72	24.96	30	Pass
Band4	1.4	1732.5	QPSK	1	LOW	24.21	27.71	3.5	13	0.72	24.93	30	Pass
Band4	1.4	1732.5	QPSK	1	MID	24.24	27.62	3.38	13	0.72	24.96	30	Pass
Band4	1.4	1732.5	QPSK	1	HIGH	24.22	27.65	3.43	13	0.72	24.94	30	Pass
Band4	1.4	1732.5	16QAM	6	LOW	22.46	28.27	5.81	13	0.72	23.18	30	Pass
Band4	1.4	1732.5	16QAM	3	LOW	23.3	28.05	4.75	13	0.72	24.02	30	Pass
Band4	1.4	1732.5	16QAM	3	MID	23.31	28.07	4.76	13	0.72	24.03	30	Pass
Band4	1.4	1732.5	16QAM	3	HIGH	23.32	28.07	4.75	13	0.72	24.04	30	Pass
Band4	1.4	1732.5	16QAM	1	LOW	24.05	28	3.95	13	0.72	24.77	30	Pass
Band4	1.4	1732.5	16QAM	1	MID	23.99	27.66	3.67	13	0.72	24.71	30	Pass
Band4	1.4	1732.5	16QAM	1	HIGH	24.03	27.55	3.52	13	0.72	24.75	30	Pass
Band4	1.4	1754.3	QPSK	6	LOW	22.93	27.96	5.03	13	0.72	23.65	30	Pass
Band4	1.4	1754.3	QPSK	3	LOW	24.18	27.96	3.78	13	0.72	24.9	30	Pass
Band4	1.4	1754.3	QPSK	3	MID	24.16	27.87	3.71	13	0.72	24.88	30	Pass
Band4	1.4	1754.3	QPSK	3	HIGH	24.13	28	3.87	13	0.72	24.85	30	Pass
Band4	1.4	1754.3	QPSK	1	LOW	24.36	27.39	3.03	13	0.72	25.08	30	Pass
Band4	1.4	1754.3	QPSK	1	MID	24.33	27.39	3.06	13	0.72	25.05	30	Pass
Band4	1.4	1754.3	QPSK	1	HIGH	24.34	27.31	2.97	13	0.72	25.06	30	Pass
Band4	1.4	1754.3	16QAM	6	LOW	22.65	28.16	5.51	13	0.72	23.37	30	Pass
Band4	1.4	1754.3	16QAM	3	LOW	23.24	27.92	4.68	13	0.72	23.96	30	Pass
Band4	1.4	1754.3	16QAM	3	MID	23.24	27.93	4.69	13	0.72	23.96	30	Pass
Band4	1.4	1754.3	16QAM	3	HIGH	23.17	27.64	4.47	13	0.72	23.89	30	Pass
Band4	1.4	1754.3	16QAM	1	LOW	23.49	27.2	3.71	13	0.72	24.21	30	Pass

Band4	1.4	1754.3	16QAM	1	MID	23.5	27.2	3.7	13	0.72	24.22	30	Pass
Band4	1.4	1754.3	16QAM	1	HIGH	23.54	27.2	3.66	13	0.72	24.26	30	Pass
Band4	3	1711.5	QPSK	15	LOW	23.36	28.71	5.35	13	0.72	24.08	30	Pass
Band4	3	1711.5	QPSK	8	LOW	23.36	27.7	4.34	13	0.72	24.08	30	Pass
Band4	3	1711.5	QPSK	8	MID	23.36	27.69	4.33	13	0.72	24.08	30	Pass
Band4	3	1711.5	QPSK	8	HIGH	23.26	27.75	4.49	13	0.72	23.98	30	Pass
Band4	3	1711.5	QPSK	1	LOW	24.25	27.21	2.96	13	0.72	24.97	30	Pass
Band4	3	1711.5	QPSK	1	MID	24.29	27.29	3	13	0.72	25.01	30	Pass
Band4	3	1711.5	QPSK	1	HIGH	24.28	27.3	3.02	13	0.72	25	30	Pass
Band4	3	1711.5	16QAM	15	LOW	22.45	27.98	5.53	13	0.72	23.17	30	Pass
Band4	3	1711.5	16QAM	8	LOW	22.72	27.93	5.21	13	0.72	23.44	30	Pass
Band4	3	1711.5	16QAM	8	MID	22.73	27.94	5.21	13	0.72	23.45	30	Pass
Band4	3	1711.5	16QAM	8	HIGH	22.73	27.81	5.08	13	0.72	23.45	30	Pass
Band4	3	1711.5	16QAM	1	LOW	23.77	27.52	3.75	13	0.72	24.49	30	Pass
Band4	3	1711.5	16QAM	1	MID	23.77	27.59	3.82	13	0.72	24.49	30	Pass
Band4	3	1711.5	16QAM	1	HIGH	23.73	27.61	3.88	13	0.72	24.45	30	Pass
Band4	3	1732.5	QPSK	15	LOW	23.11	28.68	5.57	13	0.72	23.83	30	Pass
Band4	3	1732.5	QPSK	8	LOW	23.24	28.22	4.98	13	0.72	23.96	30	Pass
Band4	3	1732.5	QPSK	8	MID	23.15	28.16	5.01	13	0.72	23.87	30	Pass
Band4	3	1732.5	QPSK	8	HIGH	23.16	28.07	4.91	13	0.72	23.88	30	Pass
Band4	3	1732.5	QPSK	1	LOW	24.32	27.77	3.45	13	0.72	25.04	30	Pass
Band4	3	1732.5	QPSK	1	MID	24.29	27.66	3.37	13	0.72	25.01	30	Pass
Band4	3	1732.5	QPSK	1	HIGH	24.25	27.58	3.33	13	0.72	24.97	30	Pass
Band4	3	1732.5	16QAM	15	LOW	22.38	28.26	5.88	13	0.72	23.1	30	Pass
Band4	3	1732.5	16QAM	8	LOW	22.66	28.01	5.35	13	0.72	23.38	30	Pass
Band4	3	1732.5	16QAM	8	MID	22.46	28.02	5.56	13	0.72	23.18	30	Pass
Band4	3	1732.5	16QAM	8	HIGH	22.59	28.09	5.5	13	0.72	23.31	30	Pass
Band4	3	1732.5	16QAM	1	LOW	23.46	28.15	4.69	13	0.72	24.18	30	Pass
Band4	3	1732.5	16QAM	1	MID	23.44	28.01	4.57	13	0.72	24.16	30	Pass
Band4	3	1732.5	16QAM	1	HIGH	23.5	27.67	4.17	13	0.72	24.22	30	Pass
Band4	3	1753.5	QPSK	15	LOW	23.03	28.82	5.79	13	0.72	23.75	30	Pass
Band4	3	1753.5	QPSK	8	LOW	23.1	27.88	4.78	13	0.72	23.82	30	Pass
Band4	3	1753.5	QPSK	8	MID	23.1	28.01	4.91	13	0.72	23.82	30	Pass
Band4	3	1753.5	QPSK	8	HIGH	23.02	27.98	4.96	13	0.72	23.74	30	Pass
Band4	3	1753.5	QPSK	1	LOW	24.28	27.45	3.17	13	0.72	25	30	Pass
Band4	3	1753.5	QPSK	1	MID	24.37	27.4	3.03	13	0.72	25.09	30	Pass
Band4	3	1753.5	QPSK	1	HIGH	24.36	27.77	3.41	13	0.72	25.08	30	Pass
Band4	3	1753.5	16QAM	15	LOW	22.35	28.39	6.04	13	0.72	23.07	30	Pass
Band4	3	1753.5	16QAM	8	LOW	22.61	27.9	5.29	13	0.72	23.33	30	Pass
Band4	3	1753.5	16QAM	8	MID	22.53	27.77	5.24	13	0.72	23.25	30	Pass
Band4	3	1753.5	16QAM	8	HIGH	22.54	27.53	4.99	13	0.72	23.26	30	Pass
Band4	3	1753.5	16QAM	1	LOW	23.52	27.29	3.77	13	0.72	24.24	30	Pass
Band4	3	1753.5	16QAM	1	MID	23.54	27.23	3.69	13	0.72	24.26	30	Pass
Band4	3	1753.5	16QAM	1	HIGH	23.46	27.2	3.74	13	0.72	24.18	30	Pass
Band4	5	1712.5	QPSK	25	LOW	23.38	28.44	5.06	13	0.72	24.1	30	Pass
Band4	5	1712.5	QPSK	12	LOW	23.31	27.64	4.33	13	0.72	24.03	30	Pass

Band4	5	1712.5	QPSK	12	MID	23.31	27.52	4.21	13	0.72	24.03	30	Pass
Band4	5	1712.5	QPSK	12	HIGH	23.37	27.77	4.4	13	0.72	24.09	30	Pass
Band4	5	1712.5	QPSK	1	LOW	24.33	27.63	3.3	13	0.72	25.05	30	Pass
Band4	5	1712.5	QPSK	1	MID	24.23	27.66	3.43	13	0.72	24.95	30	Pass
Band4	5	1712.5	QPSK	1	HIGH	24.21	27.79	3.58	13	0.72	24.93	30	Pass
Band4	5	1712.5	16QAM	25	LOW	22.59	28.65	6.06	13	0.72	23.31	30	Pass
Band4	5	1712.5	16QAM	12	LOW	22.65	27.87	5.22	13	0.72	23.37	30	Pass
Band4	5	1712.5	16QAM	12	MID	22.66	27.79	5.13	13	0.72	23.38	30	Pass
Band4	5	1712.5	16QAM	12	HIGH	22.64	27.96	5.32	13	0.72	23.36	30	Pass
Band4	5	1712.5	16QAM	1	LOW	23.03	27.23	4.2	13	0.72	23.75	30	Pass
Band4	5	1712.5	16QAM	1	MID	22.9	27.28	4.38	13	0.72	23.62	30	Pass
Band4	5	1712.5	16QAM	1	HIGH	22.91	27.39	4.48	13	0.72	23.63	30	Pass
Band4	5	1732.5	QPSK	25	LOW	23.18	28.77	5.59	13	0.72	23.9	30	Pass
Band4	5	1732.5	QPSK	12	LOW	23.15	28.18	5.03	13	0.72	23.87	30	Pass
Band4	5	1732.5	QPSK	12	MID	23.15	28.27	5.12	13	0.72	23.87	30	Pass
Band4	5	1732.5	QPSK	12	HIGH	23.18	28.15	4.97	13	0.72	23.9	30	Pass
Band4	5	1732.5	QPSK	1	LOW	24.39	28.65	4.26	13	0.72	25.11	30	Pass
Band4	5	1732.5	QPSK	1	MID	24.33	27.62	3.29	13	0.72	25.05	30	Pass
Band4	5	1732.5	QPSK	1	HIGH	24.45	27.56	3.11	13	0.72	25.17	30	Pass
Band4	5	1732.5	16QAM	25	LOW	22.5	29.04	6.54	13	0.72	23.22	30	Pass
Band4	5	1732.5	16QAM	12	LOW	22.39	28.06	5.67	13	0.72	23.11	30	Pass
Band4	5	1732.5	16QAM	12	MID	22.41	28.13	5.72	13	0.72	23.13	30	Pass
Band4	5	1732.5	16QAM	12	HIGH	22.46	27.95	5.49	13	0.72	23.18	30	Pass
Band4	5	1732.5	16QAM	1	LOW	23.73	27.98	4.25	13	0.72	24.45	30	Pass
Band4	5	1732.5	16QAM	1	MID	23.61	27.82	4.21	13	0.72	24.33	30	Pass
Band4	5	1732.5	16QAM	1	HIGH	23.63	27.7	4.07	13	0.72	24.35	30	Pass
Band4	5	1752.5	QPSK	25	LOW	23.08	28.46	5.38	13	0.72	23.8	30	Pass
Band4	5	1752.5	QPSK	12	LOW	23.18	27.77	4.59	13	0.72	23.9	30	Pass
Band4	5	1752.5	QPSK	12	MID	23.19	27.71	4.52	13	0.72	23.91	30	Pass
Band4	5	1752.5	QPSK	12	HIGH	23.06	27.71	4.65	13	0.72	23.78	30	Pass
Band4	5	1752.5	QPSK	1	LOW	23.76	27.55	3.79	13	0.72	24.48	30	Pass
Band4	5	1752.5	QPSK	1	MID	23.81	27.55	3.74	13	0.72	24.53	30	Pass
Band4	5	1752.5	QPSK	1	HIGH	23.84	27.49	3.65	13	0.72	24.56	30	Pass
Band4	5	1752.5	16QAM	25	LOW	22.35	28.31	5.96	13	0.72	23.07	30	Pass
Band4	5	1752.5	16QAM	12	LOW	22.11	27.72	5.61	13	0.72	22.83	30	Pass
Band4	5	1752.5	16QAM	12	MID	22.12	27.62	5.5	13	0.72	22.84	30	Pass
Band4	5	1752.5	16QAM	12	HIGH	22.14	27.67	5.53	13	0.72	22.86	30	Pass
Band4	5	1752.5	16QAM	1	LOW	23.2	27.57	4.37	13	0.72	23.92	30	Pass
Band4	5	1752.5	16QAM	1	MID	23.16	27.53	4.37	13	0.72	23.88	30	Pass
Band4	5	1752.5	16QAM	1	HIGH	23.13	27.95	4.82	13	0.72	23.85	30	Pass
Band4	10	1715	QPSK	50	LOW	23.36	28.45	5.09	13	0.72	24.08	30	Pass
Band4	10	1715	QPSK	25	LOW	23.35	27.56	4.21	13	0.72	24.07	30	Pass
Band4	10	1715	QPSK	25	MID	23.35	27.52	4.17	13	0.72	24.07	30	Pass
Band4	10	1715	QPSK	25	HIGH	23.13	27.72	4.59	13	0.72	23.85	30	Pass
Band4	10	1715	QPSK	1	LOW	24.29	27.52	3.23	13	0.72	25.01	30	Pass
Band4	10	1715	QPSK	1	MID	24.16	27.18	3.02	13	0.72	24.88	30	Pass

Band4	10	1715	QPSK	1	HIGH	24.14	27.51	3.37	13	0.72	24.86	30	Pass
Band4	10	1715	16QAM	50	LOW	22.49	28.44	5.95	13	0.72	23.21	30	Pass
Band4	10	1715	16QAM	25	LOW	22.53	27.6	5.07	13	0.72	23.25	30	Pass
Band4	10	1715	16QAM	25	MID	22.53	27.59	5.06	13	0.72	23.25	30	Pass
Band4	10	1715	16QAM	25	HIGH	22.48	27.88	5.4	13	0.72	23.2	30	Pass
Band4	10	1715	16QAM	1	LOW	23.78	27.52	3.74	13	0.72	24.5	30	Pass
Band4	10	1715	16QAM	1	MID	23.76	27.43	3.67	13	0.72	24.48	30	Pass
Band4	10	1715	16QAM	1	HIGH	23.71	27.76	4.05	13	0.72	24.43	30	Pass
Band4	10	1732.5	QPSK	50	LOW	23.29	28.53	5.24	13	0.72	24.01	30	Pass
Band4	10	1732.5	QPSK	25	LOW	23.06	27.84	4.78	13	0.72	23.78	30	Pass
Band4	10	1732.5	QPSK	25	MID	23.06	27.87	4.81	13	0.72	23.78	30	Pass
Band4	10	1732.5	QPSK	25	HIGH	23.16	27.67	4.51	13	0.72	23.88	30	Pass
Band4	10	1732.5	QPSK	1	LOW	24.2	27.86	3.66	13	0.72	24.92	30	Pass
Band4	10	1732.5	QPSK	1	MID	24.22	27.48	3.26	13	0.72	24.94	30	Pass
Band4	10	1732.5	QPSK	1	HIGH	24.26	27.27	3.01	13	0.72	24.98	30	Pass
Band4	10	1732.5	16QAM	50	LOW	22.33	28.25	5.92	13	0.72	23.05	30	Pass
Band4	10	1732.5	16QAM	25	LOW	22.54	28.15	5.61	13	0.72	23.26	30	Pass
Band4	10	1732.5	16QAM	25	MID	22.54	28.24	5.7	13	0.72	23.26	30	Pass
Band4	10	1732.5	16QAM	25	HIGH	22.47	27.96	5.49	13	0.72	23.19	30	Pass
Band4	10	1732.5	16QAM	1	LOW	23.43	28.22	4.79	13	0.72	24.15	30	Pass
Band4	10	1732.5	16QAM	1	MID	23.38	27.19	3.81	13	0.72	24.1	30	Pass
Band4	10	1732.5	16QAM	1	HIGH	23.36	27.85	4.49	13	0.72	24.08	30	Pass
Band4	10	1750	QPSK	50	LOW	23.09	28.08	4.99	13	0.72	23.81	30	Pass
Band4	10	1750	QPSK	25	LOW	23.21	28.46	5.25	13	0.72	23.93	30	Pass
Band4	10	1750	QPSK	25	MID	23.2	28.48	5.28	13	0.72	23.92	30	Pass
Band4	10	1750	QPSK	25	HIGH	23.14	28.46	5.32	13	0.72	23.86	30	Pass
Band4	10	1750	QPSK	1	LOW	24.37	27.86	3.49	13	0.72	25.09	30	Pass
Band4	10	1750	QPSK	1	MID	24.35	27.89	3.54	13	0.72	25.07	30	Pass
Band4	10	1750	QPSK	1	HIGH	24.37	27.88	3.51	13	0.72	25.09	30	Pass
Band4	10	1750	16QAM	50	LOW	22.34	28.81	6.47	13	0.72	23.06	30	Pass
Band4	10	1750	16QAM	25	LOW	22.42	28.24	5.82	13	0.72	23.14	30	Pass
Band4	10	1750	16QAM	25	MID	22.43	28.24	5.81	13	0.72	23.15	30	Pass
Band4	10	1750	16QAM	25	HIGH	22.36	28.28	5.92	13	0.72	23.08	30	Pass
Band4	10	1750	16QAM	1	LOW	23.01	27.32	4.31	13	0.72	23.73	30	Pass
Band4	10	1750	16QAM	1	MID	22.98	27.35	4.37	13	0.72	23.7	30	Pass
Band4	10	1750	16QAM	1	HIGH	22.9	27.35	4.45	13	0.72	23.62	30	Pass
Band4	15	1717.5	QPSK	75	LOW	23.39	29.45	6.06	13	0.72	24.11	30	Pass
Band4	15	1717.5	QPSK	38	LOW	23.2	29.37	6.17	13	0.72	23.92	30	Pass
Band4	15	1717.5	QPSK	38	MID	23.2	29.36	6.16	13	0.72	23.92	30	Pass
Band4	15	1717.5	QPSK	38	HIGH	23.19	29.35	6.16	13	0.72	23.91	30	Pass
Band4	15	1717.5	QPSK	1	LOW	24.25	28.09	3.84	13	0.72	24.97	30	Pass
Band4	15	1717.5	QPSK	1	MID	24.23	28.04	3.81	13	0.72	24.95	30	Pass
Band4	15	1717.5	QPSK	1	HIGH	24.18	28.45	4.27	13	0.72	24.9	30	Pass
Band4	15	1717.5	16QAM	75	LOW	22.53	29.04	6.51	13	0.72	23.25	30	Pass
Band4	15	1717.5	16QAM	38	LOW	22.68	29.1	6.42	13	0.72	23.4	30	Pass
Band4	15	1717.5	16QAM	38	MID	22.69	29.23	6.54	13	0.72	23.41	30	Pass

Band4	15	1717.5	16QAM	38	HIGH	22.54	29.15	6.61	13	0.72	23.26	30	Pass
Band4	15	1717.5	16QAM	1	LOW	23.84	28.59	4.75	13	0.72	24.56	30	Pass
Band4	15	1717.5	16QAM	1	MID	23.78	28.42	4.64	13	0.72	24.5	30	Pass
Band4	15	1717.5	16QAM	1	HIGH	23.76	28.69	4.93	13	0.72	24.48	30	Pass
Band4	15	1732.5	QPSK	75	LOW	23.22	29.31	6.09	13	0.72	23.94	30	Pass
Band4	15	1732.5	QPSK	38	LOW	23.14	29.23	6.09	13	0.72	23.86	30	Pass
Band4	15	1732.5	QPSK	38	MID	23.14	29.21	6.07	13	0.72	23.86	30	Pass
Band4	15	1732.5	QPSK	38	HIGH	23.14	29.24	6.1	13	0.72	23.86	30	Pass
Band4	15	1732.5	QPSK	1	LOW	24.25	28.6	4.35	13	0.72	24.97	30	Pass
Band4	15	1732.5	QPSK	1	MID	24.29	28.11	3.82	13	0.72	25.01	30	Pass
Band4	15	1732.5	QPSK	1	HIGH	24.33	28.11	3.78	13	0.72	25.05	30	Pass
Band4	15	1732.5	16QAM	75	LOW	22.37	29.04	6.67	13	0.72	23.09	30	Pass
Band4	15	1732.5	16QAM	38	LOW	22.45	29.13	6.68	13	0.72	23.17	30	Pass
Band4	15	1732.5	16QAM	38	MID	22.47	29.1	6.63	13	0.72	23.19	30	Pass
Band4	15	1732.5	16QAM	38	HIGH	22.47	29.09	6.62	13	0.72	23.19	30	Pass
Band4	15	1732.5	16QAM	1	LOW	24.16	29	4.84	13	0.72	24.88	30	Pass
Band4	15	1732.5	16QAM	1	MID	24.08	27.97	3.89	13	0.72	24.8	30	Pass
Band4	15	1732.5	16QAM	1	HIGH	24.05	28.34	4.29	13	0.72	24.77	30	Pass
Band4	15	1747.5	QPSK	75	LOW	23.03	28.91	5.88	13	0.72	23.75	30	Pass
Band4	15	1747.5	QPSK	38	LOW	23.15	29	5.85	13	0.72	23.87	30	Pass
Band4	15	1747.5	QPSK	38	MID	23.15	29	5.85	13	0.72	23.87	30	Pass
Band4	15	1747.5	QPSK	38	HIGH	23.15	29.01	5.86	13	0.72	23.87	30	Pass
Band4	15	1747.5	QPSK	1	LOW	24.41	28.33	3.92	13	0.72	25.13	30	Pass
Band4	15	1747.5	QPSK	1	MID	24.37	27.9	3.53	13	0.72	25.09	30	Pass
Band4	15	1747.5	QPSK	1	HIGH	24.36	28.09	3.73	13	0.72	25.08	30	Pass
Band4	15	1747.5	16QAM	75	LOW	22.45	28.82	6.37	13	0.72	23.17	30	Pass
Band4	15	1747.5	16QAM	38	LOW	22.37	28.78	6.41	13	0.72	23.09	30	Pass
Band4	15	1747.5	16QAM	38	MID	22.38	28.78	6.4	13	0.72	23.1	30	Pass
Band4	15	1747.5	16QAM	38	HIGH	22.28	28.75	6.47	13	0.72	23	30	Pass
Band4	15	1747.5	16QAM	1	LOW	23.82	28.44	4.62	13	0.72	24.54	30	Pass
Band4	15	1747.5	16QAM	1	MID	23.86	27.7	3.84	13	0.72	24.58	30	Pass
Band4	15	1747.5	16QAM	1	HIGH	23.83	28.43	4.6	13	0.72	24.55	30	Pass
Band4	20	1720	QPSK	100	LOW	23.33	29.16	5.83	13	0.72	24.05	30	Pass
Band4	20	1720	QPSK	50	LOW	23.35	28.43	5.08	13	0.72	24.07	30	Pass
Band4	20	1720	QPSK	50	MID	23.35	28.39	5.04	13	0.72	24.07	30	Pass
Band4	20	1720	QPSK	50	HIGH	23.2	28.66	5.46	13	0.72	23.92	30	Pass
Band4	20	1720	QPSK	1	LOW	24.63	28.31	3.68	13	0.72	25.35	30	Pass
Band4	20	1720	QPSK	1	MID	24.47	28.32	3.85	13	0.72	25.19	30	Pass
Band4	20	1720	QPSK	1	HIGH	24.48	28.38	3.9	13	0.72	25.2	30	Pass
Band4	20	1720	16QAM	100	LOW	22.47	29.54	7.07	13	0.72	23.19	30	Pass
Band4	20	1720	16QAM	50	LOW	22.68	28.83	6.15	13	0.72	23.4	30	Pass
Band4	20	1720	16QAM	50	MID	22.7	28.79	6.09	13	0.72	23.42	30	Pass
Band4	20	1720	16QAM	50	HIGH	22.55	29.05	6.5	13	0.72	23.27	30	Pass
Band4	20	1720	16QAM	1	LOW	23.72	28.57	4.85	13	0.72	24.44	30	Pass
Band4	20	1720	16QAM	1	MID	23.82	28.38	4.56	13	0.72	24.54	30	Pass
Band4	20	1720	16QAM	1	HIGH	23.81	29.28	5.47	13	0.72	24.53	30	Pass

Band4	20	1732.5	QPSK	100	LOW	23.19	29.16	5.97	13	0.72	23.91	30	Pass
Band4	20	1732.5	QPSK	50	LOW	23.25	28.35	5.1	13	0.72	23.97	30	Pass
Band4	20	1732.5	QPSK	50	MID	23.25	28.35	5.1	13	0.72	23.97	30	Pass
Band4	20	1732.5	QPSK	50	HIGH	23.35	28.31	4.96	13	0.72	24.07	30	Pass
Band4	20	1732.5	QPSK	1	LOW	24.5	29.32	4.82	13	0.72	25.22	30	Pass
Band4	20	1732.5	QPSK	1	MID	24.55	28.15	3.6	13	0.72	25.27	30	Pass
Band4	20	1732.5	QPSK	1	HIGH	24.5	28.7	4.2	13	0.72	25.22	30	Pass
Band4	20	1732.5	16QAM	100	LOW	22.34	29.08	6.74	13	0.72	23.06	30	Pass
Band4	20	1732.5	16QAM	50	LOW	22.54	28.77	6.23	13	0.72	23.26	30	Pass
Band4	20	1732.5	16QAM	50	MID	22.55	28.81	6.26	13	0.72	23.27	30	Pass
Band4	20	1732.5	16QAM	50	HIGH	22.47	28.47	6	13	0.72	23.19	30	Pass
Band4	20	1732.5	16QAM	1	LOW	23.52	28.14	4.62	13	0.72	24.24	30	Pass
Band4	20	1732.5	16QAM	1	MID	23.51	28.4	4.89	13	0.72	24.23	30	Pass
Band4	20	1732.5	16QAM	1	HIGH	23.54	28.15	4.61	13	0.72	24.26	30	Pass
Band4	20	1745	QPSK	100	LOW	23.27	29.02	5.75	13	0.72	23.99	30	Pass
Band4	20	1745	QPSK	50	LOW	23.33	27.98	4.65	13	0.72	24.05	30	Pass
Band4	20	1745	QPSK	50	MID	23.18	28.25	5.07	13	0.72	23.9	30	Pass
Band4	20	1745	QPSK	50	HIGH	23.11	28.29	5.18	13	0.72	23.83	30	Pass
Band4	20	1745	QPSK	1	LOW	24.3	28.72	4.42	13	0.72	25.02	30	Pass
Band4	20	1745	QPSK	1	MID	24.3	27.96	3.66	13	0.72	25.02	30	Pass
Band4	20	1745	QPSK	1	HIGH	24.24	28.35	4.11	13	0.72	24.96	30	Pass
Band4	20	1745	16QAM	100	LOW	22.56	29.05	6.49	13	0.72	23.28	30	Pass
Band4	20	1745	16QAM	50	LOW	22.41	28.31	5.9	13	0.72	23.13	30	Pass
Band4	20	1745	16QAM	50	MID	22.42	28.33	5.91	13	0.72	23.14	30	Pass
Band4	20	1745	16QAM	50	HIGH	22.45	28.32	5.87	13	0.72	23.17	30	Pass
Band4	20	1745	16QAM	1	LOW	24.17	28.6	4.43	13	0.72	24.89	30	Pass
Band4	20	1745	16QAM	1	MID	24.11	28.01	3.9	13	0.72	24.83	30	Pass
Band4	20	1745	16QAM	1	HIGH	24.02	28.79	4.77	13	0.72	24.74	30	Pass