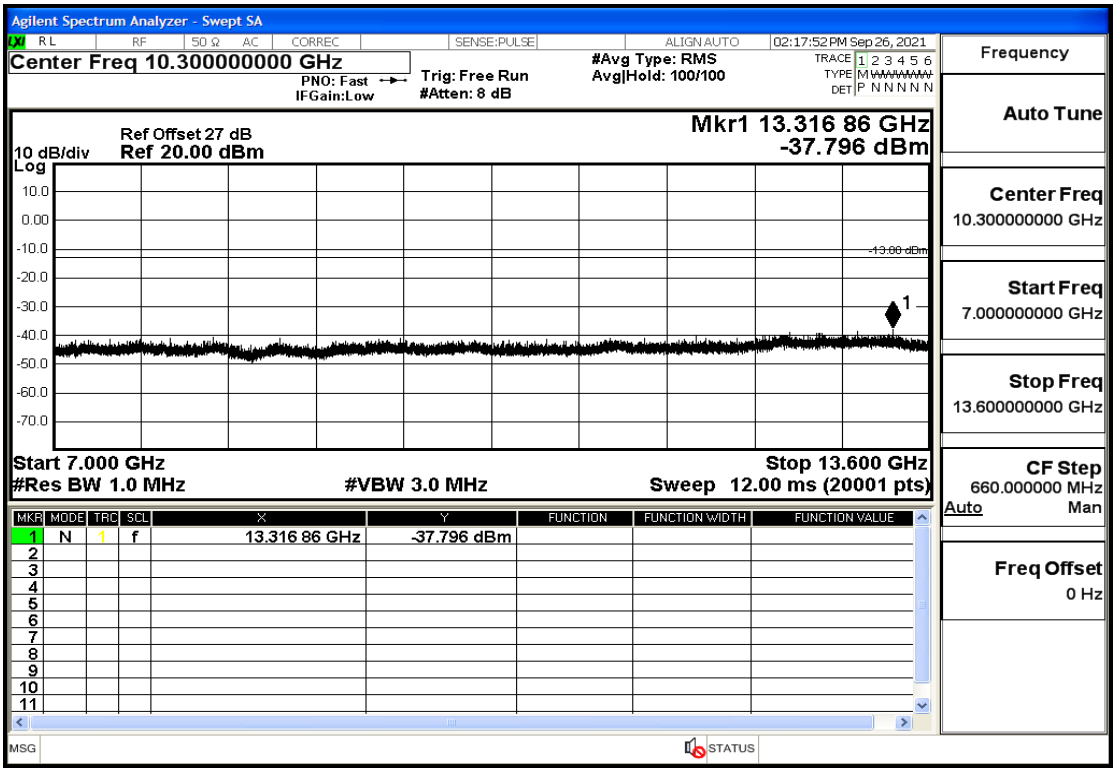
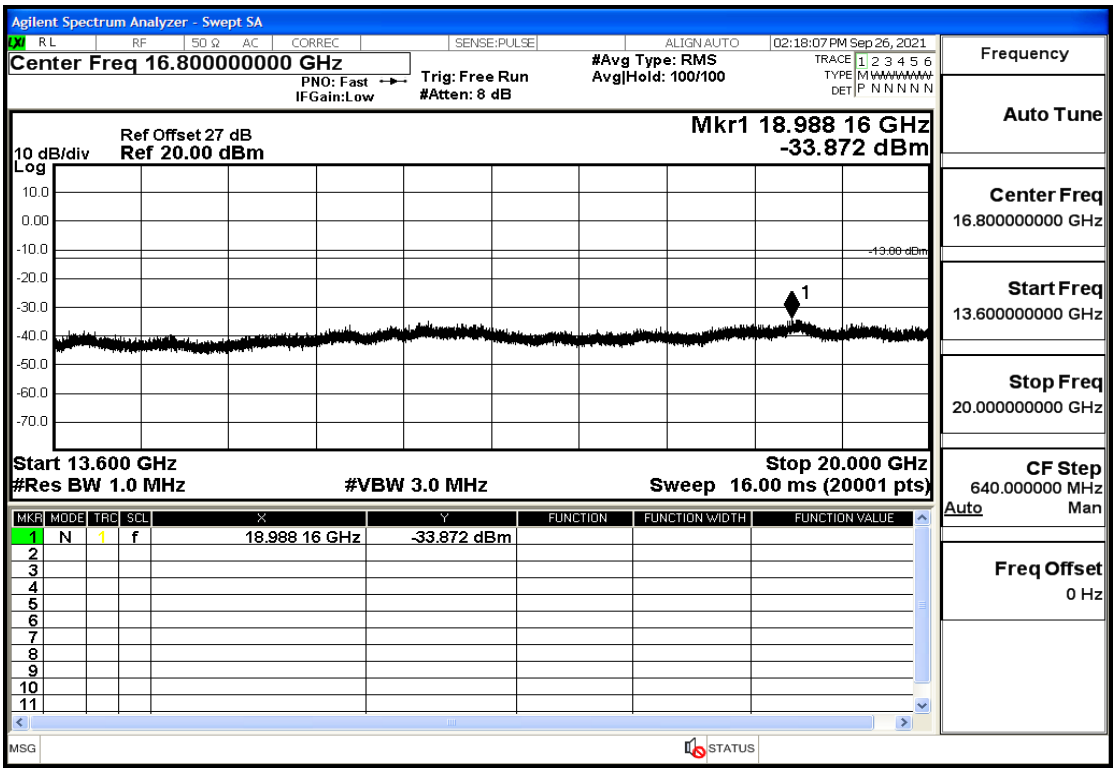
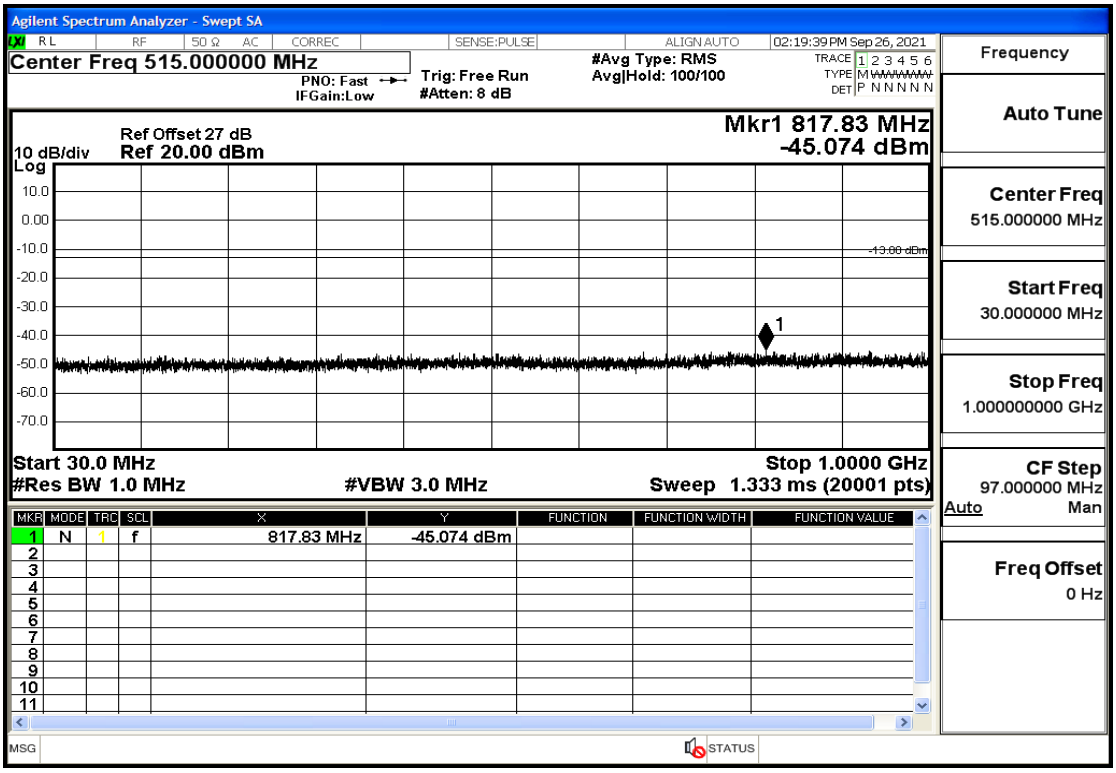
OB4-15-1747.5-QPSK-1#HIGH@7GHz-13.6GHz@Pass



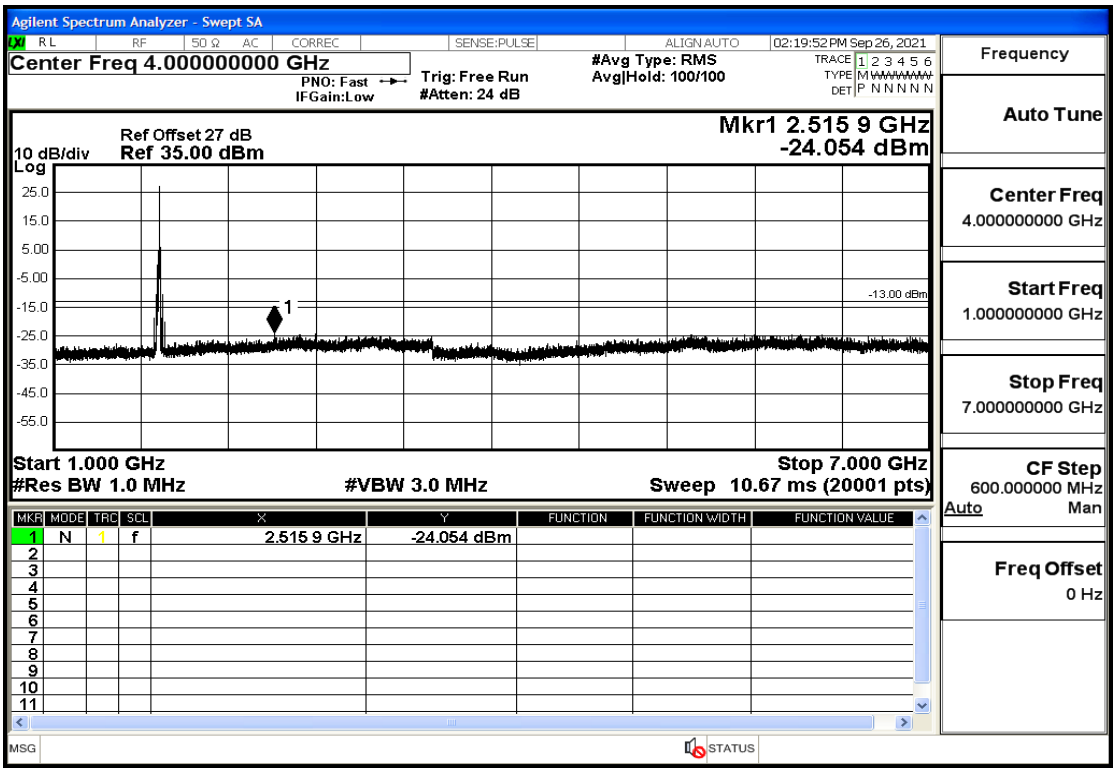
OB4-15-1747.5-QPSK-1#HIGH@13.6GHz-20GHz@Pass



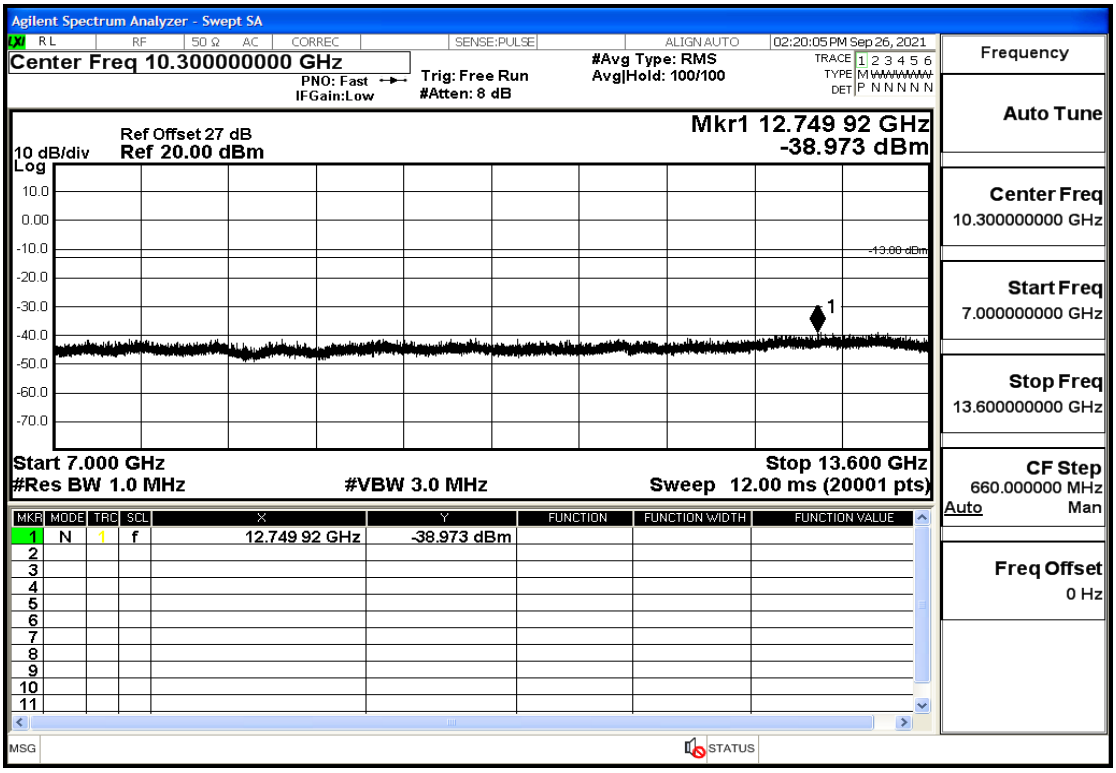
OB4-20-1720-QPSK-100#0@30mHz-1GHz@Pass



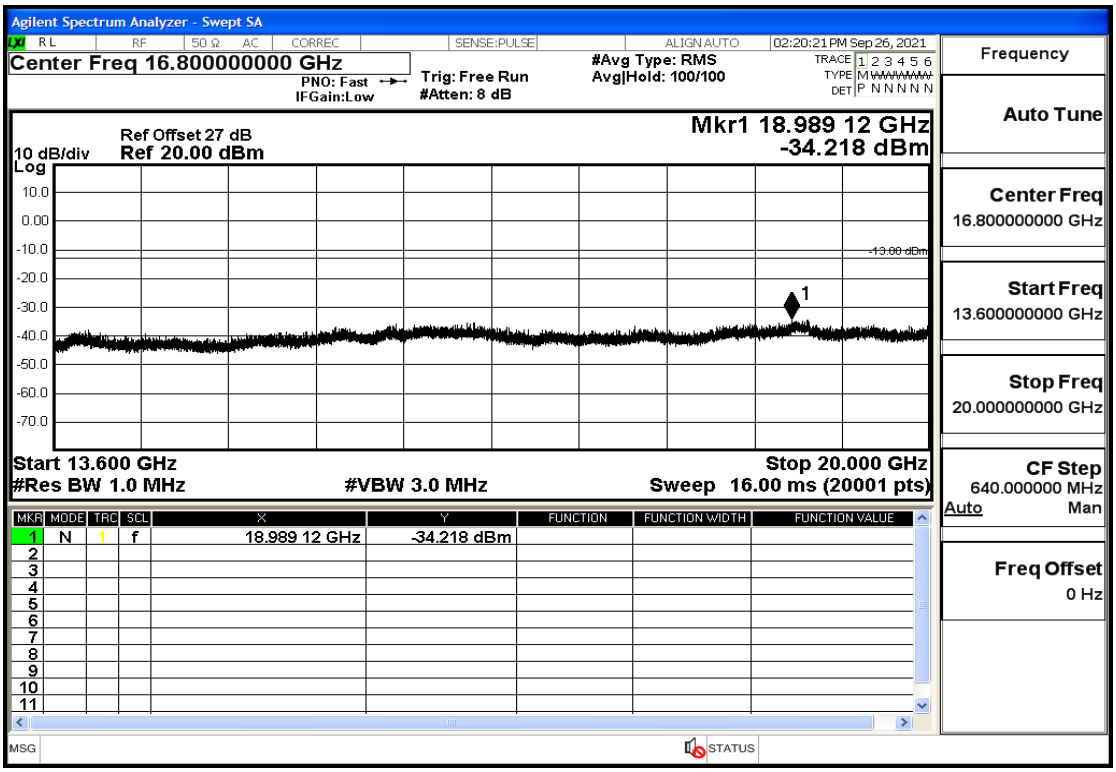
OB4-20-1720-QPSK-100#0@1GHz-7GHz@Pass



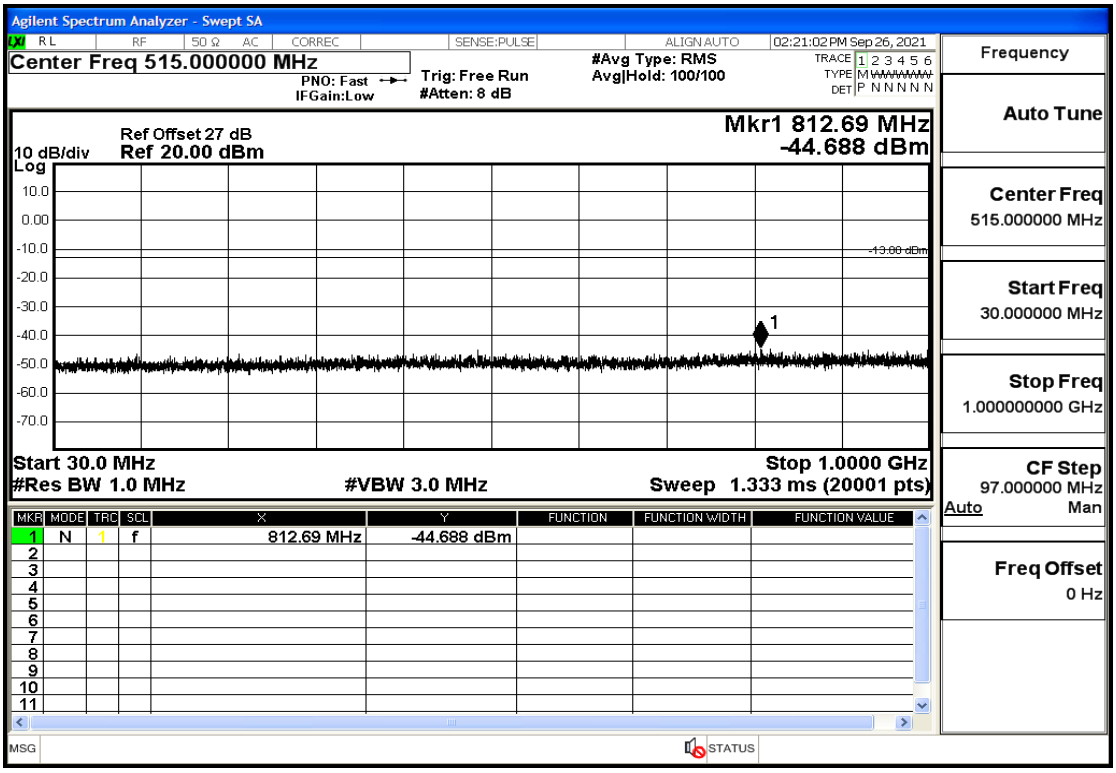
OB4-20-1720-QPSK-100#0@7GHz-13.6GHz@Pass



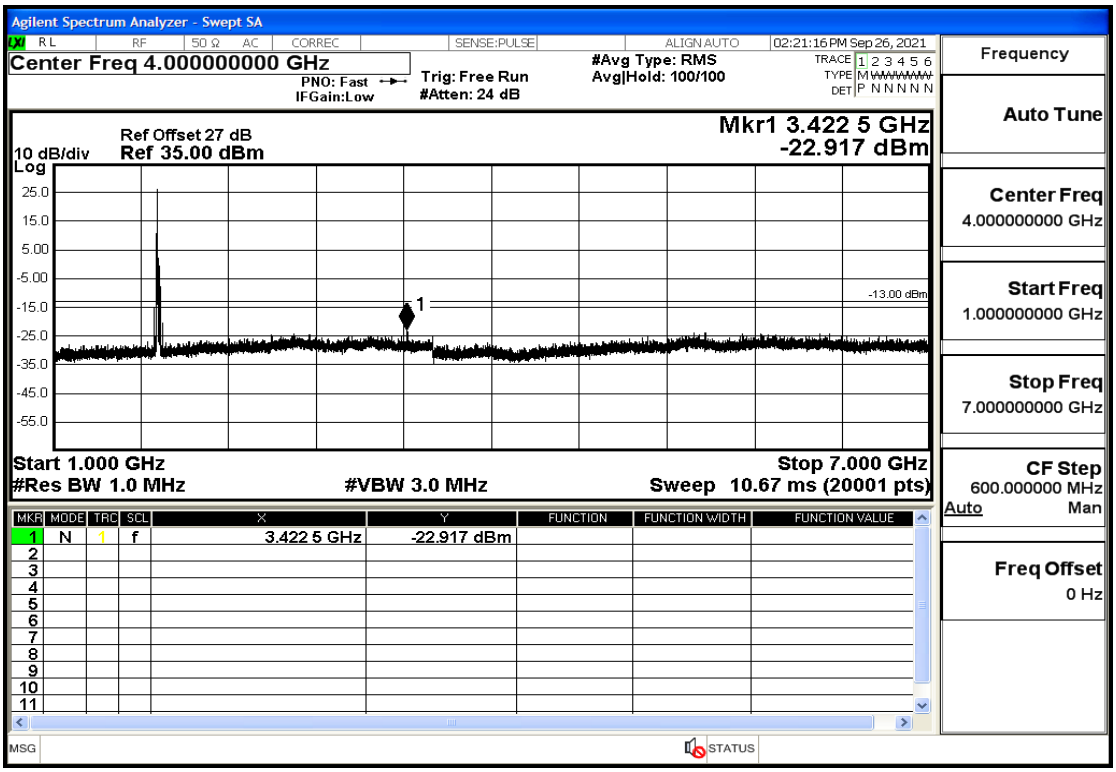
OB4-20-1720-QPSK-100#0@13.6GHz-20GHz@Pass



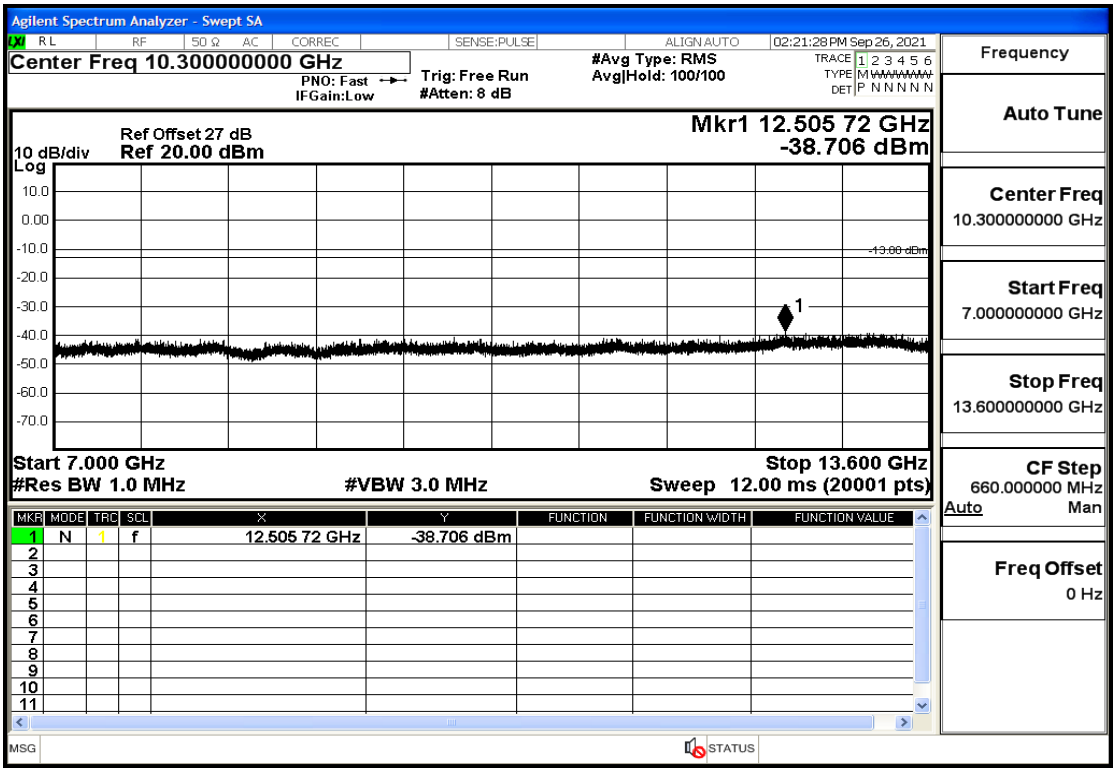
OB4-20-1720-QPSK-1#LOW@30mHz-1GHz@Pass



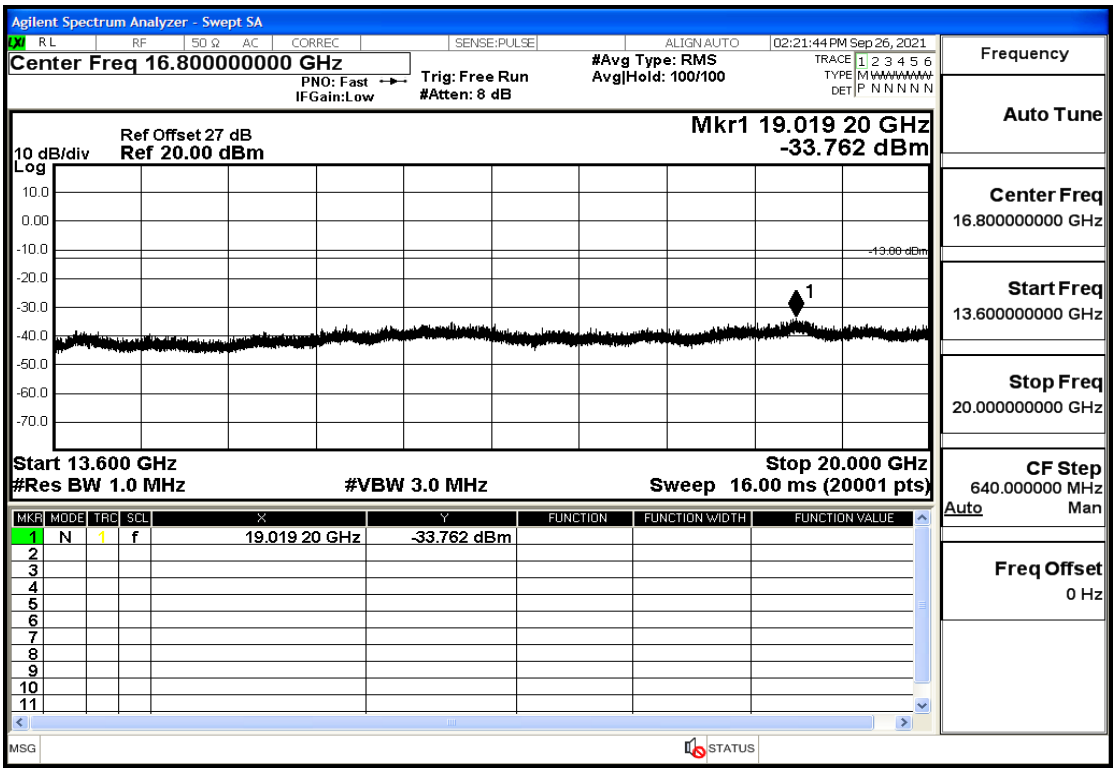
OB4-20-1720-QPSK-1#LOW@1GHz-7GHz@Pass



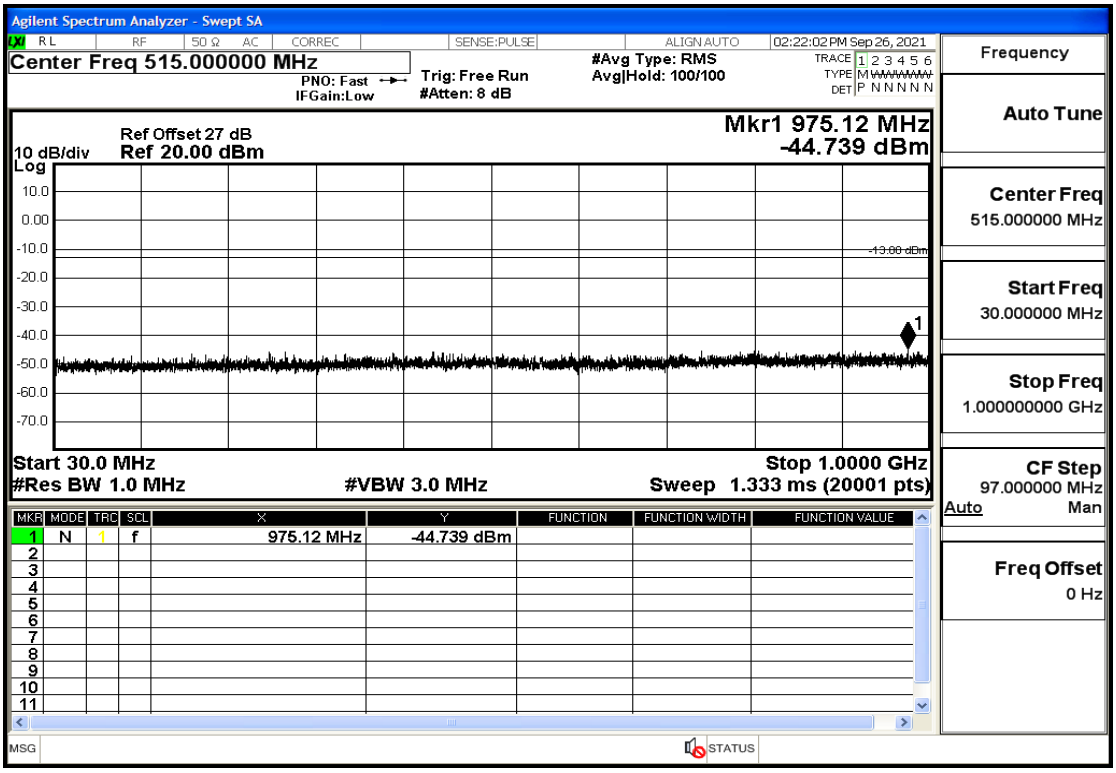
OB4-20-1720-QPSK-1#LOW@7GHz-13.6GHz@Pass



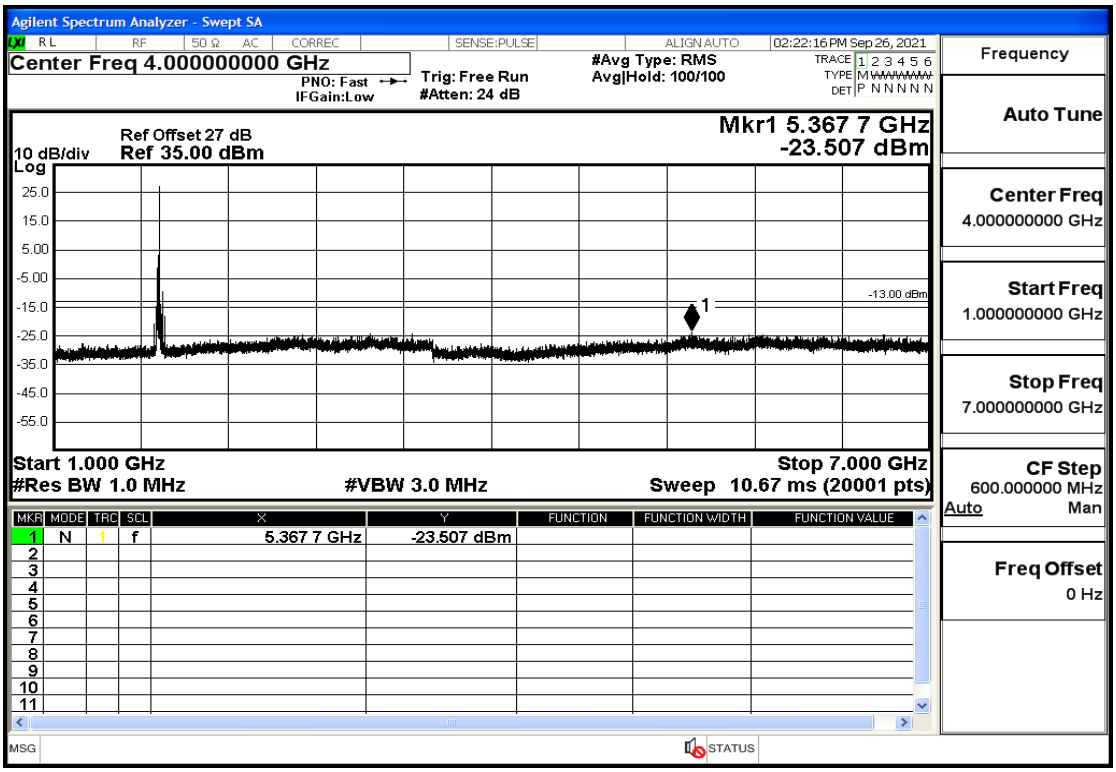
OB4-20-1720-QPSK-1#LOW@13.6GHz-20GHz@Pass



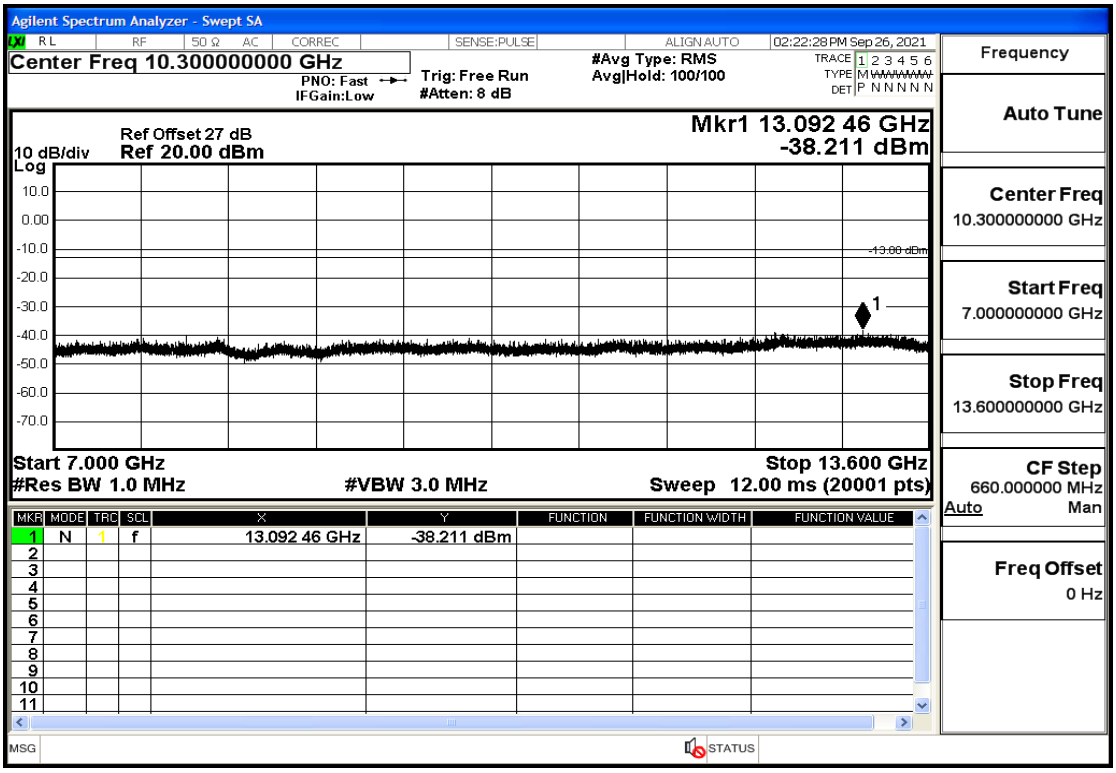
OB4-20-1720-QPSK-1#HIGH@30mHz-1GHz@Pass



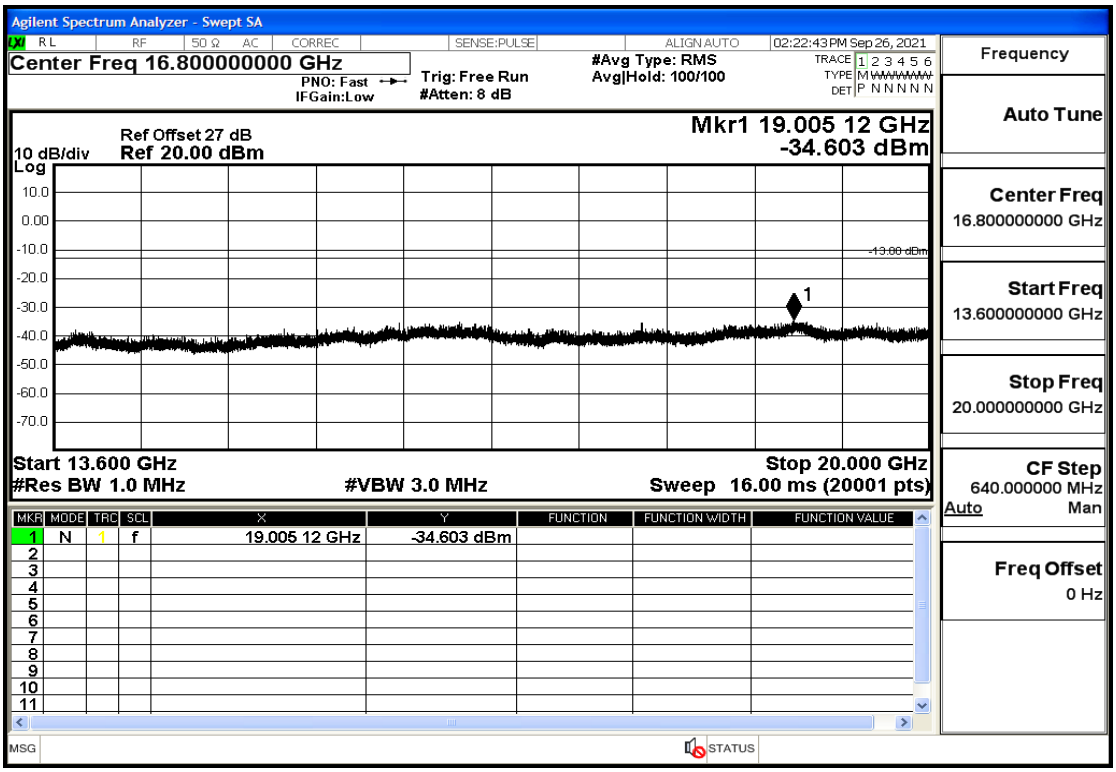
OB4-20-1720-QPSK-1#HIGH@1GHz-7GHz@Pass



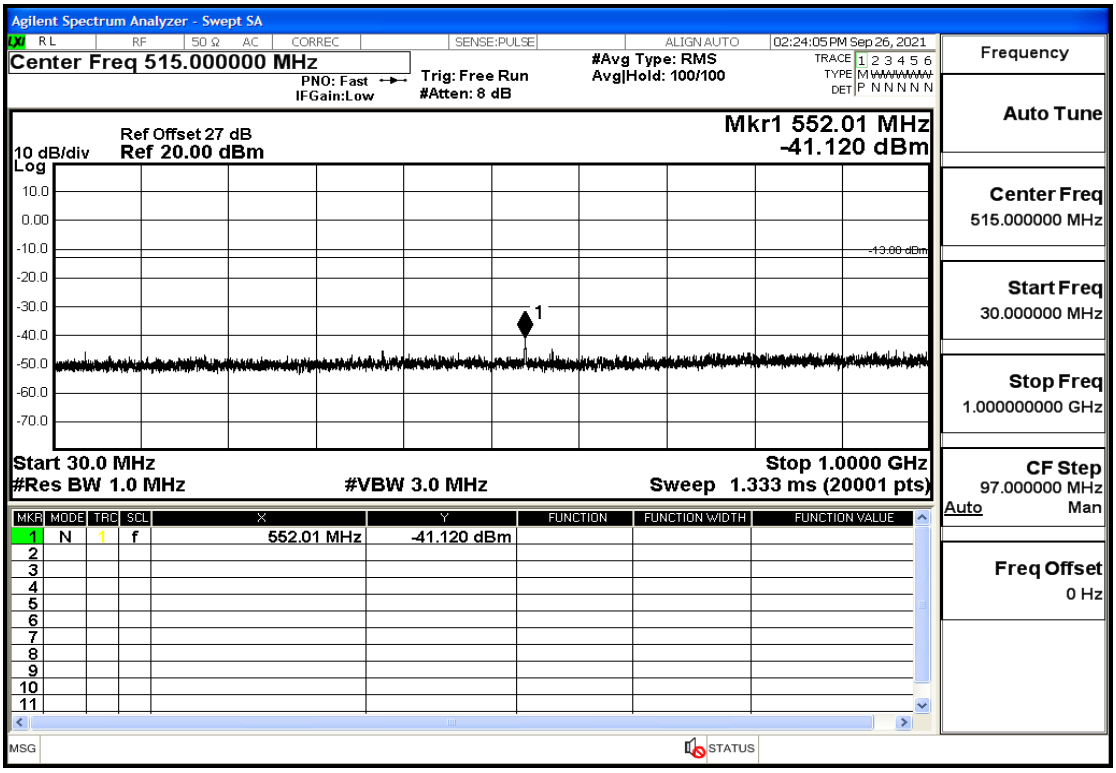
OB4-20-1720-QPSK-1#HIGH@7GHz-13.6GHz@Pass



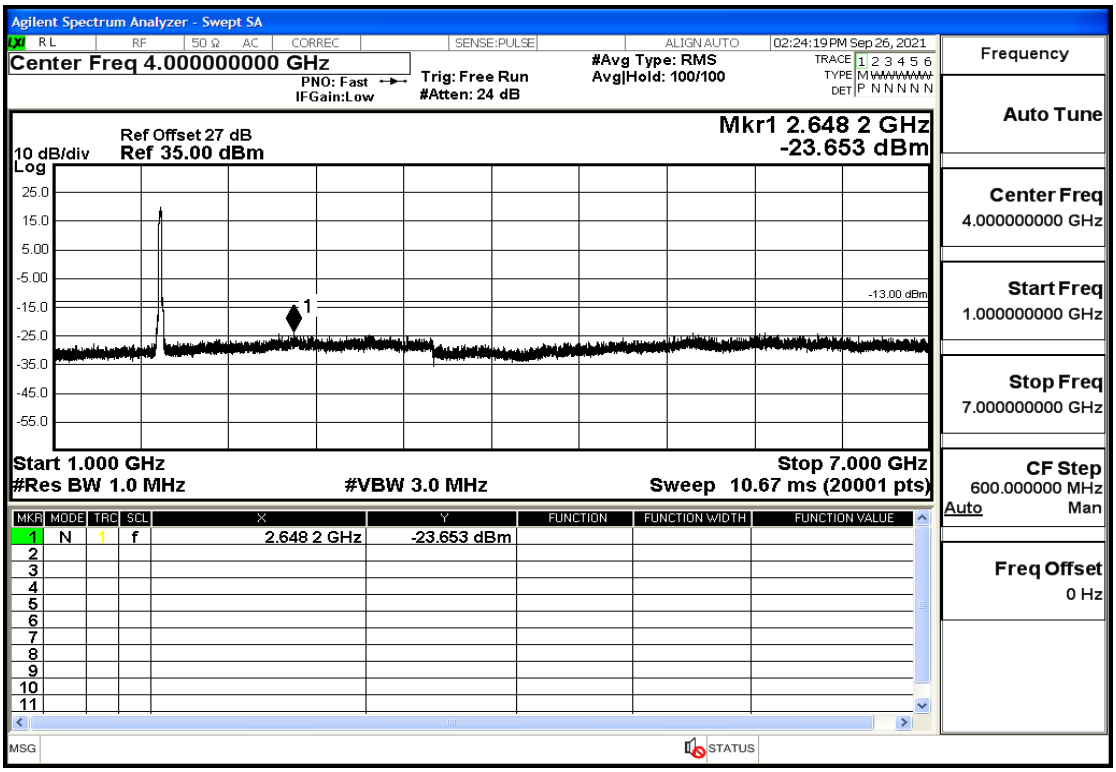
OB4-20-1720-QPSK-1#HIGH@13.6GHz-20GHz@Pass



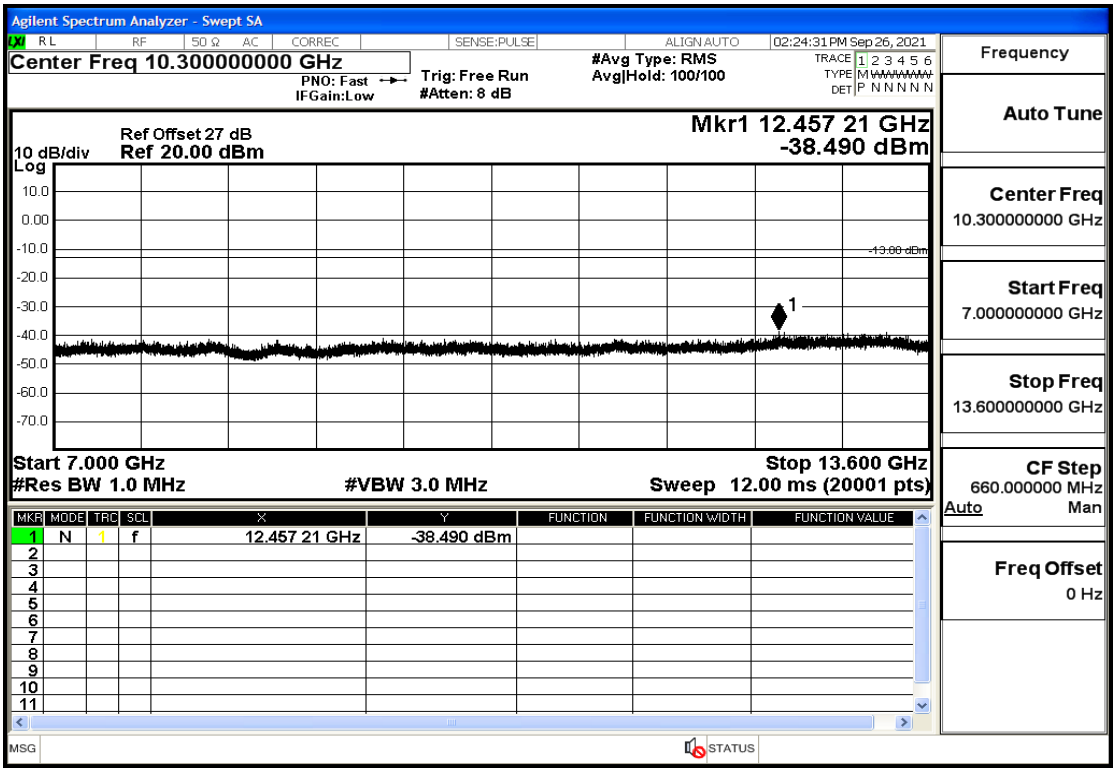
OB4-20-1732.5-QPSK-100#0@30mHz-1GHz@Pass



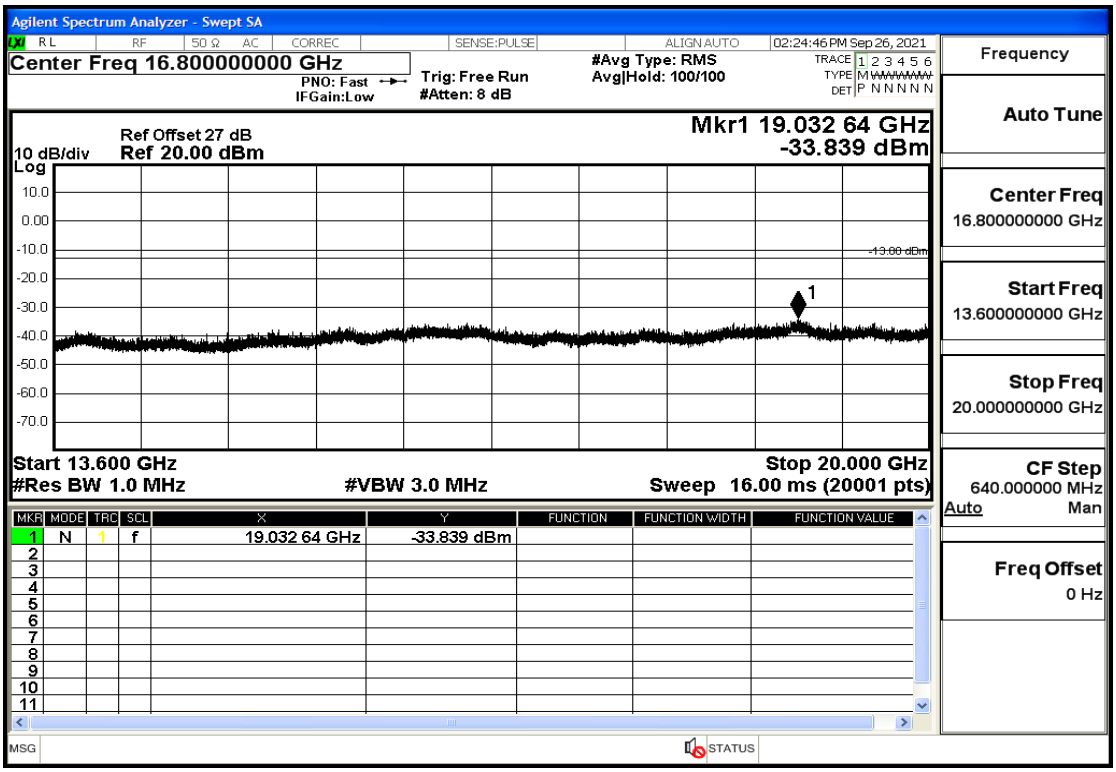
OB4-20-1732.5-QPSK-100#0@1GHz-7GHz@Pass



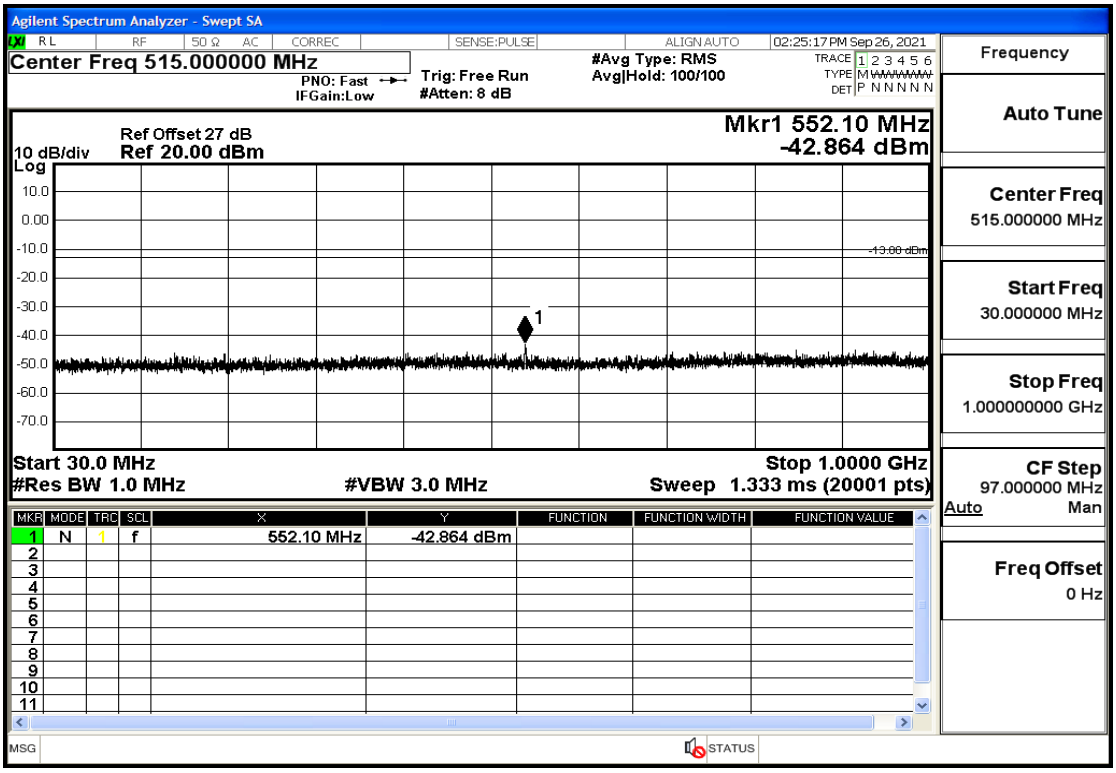
OB4-20-1732.5-QPSK-100#0@7GHz-13.6GHz@Pass



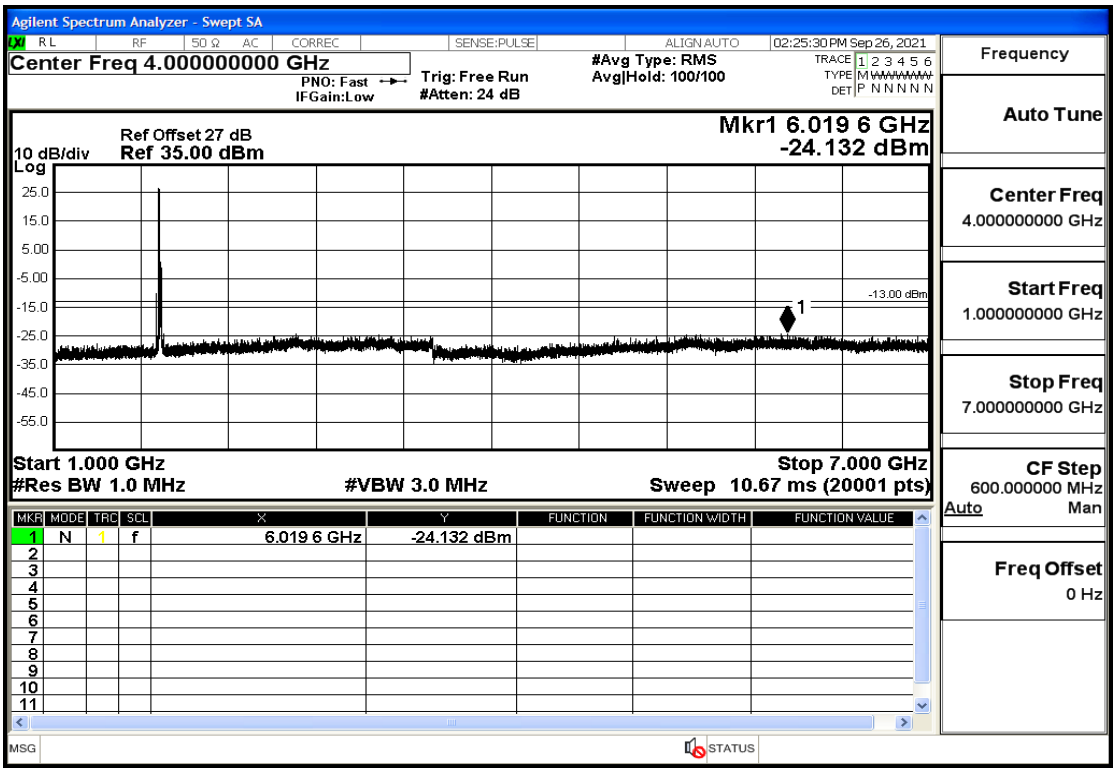
OB4-20-1732.5-QPSK-100#0@13.6GHz-20GHz@Pass



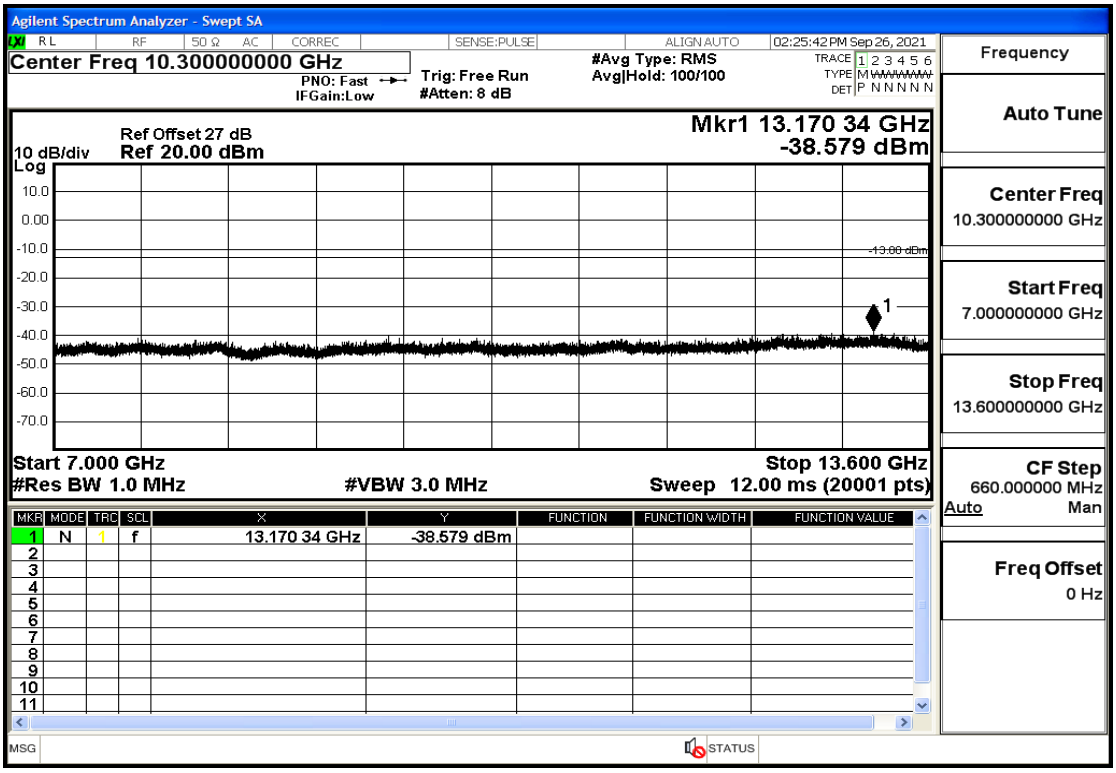
OB4-20-1732.5-QPSK-1#LOW@30mHz-1GHz@Pass



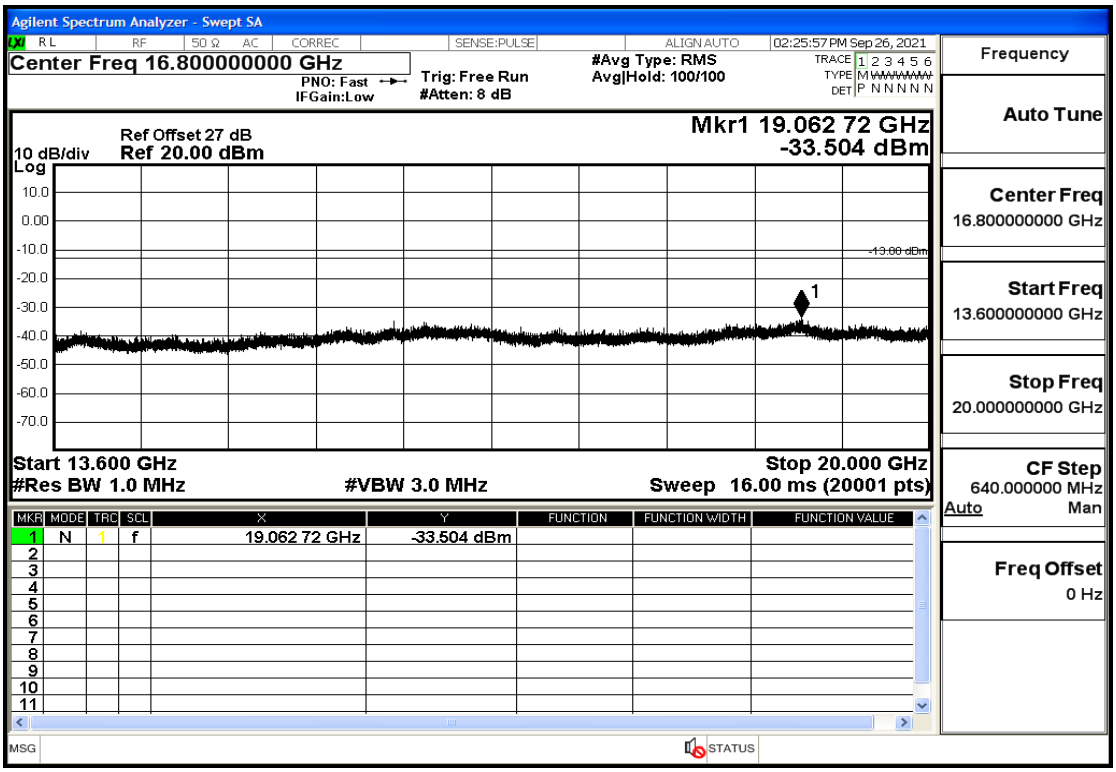
OB4-20-1732.5-QPSK-1#LOW@1GHz-7GHz@Pass



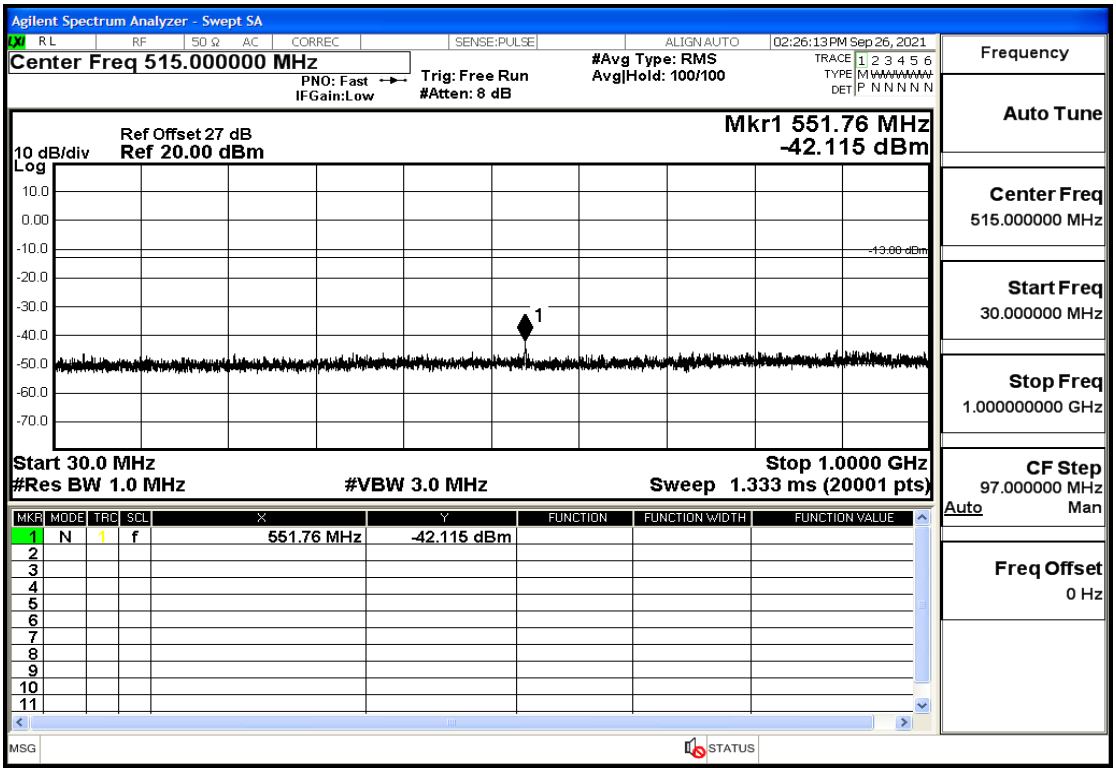
OB4-20-1732.5-QPSK-1#LOW@7GHz-13.6GHz@Pass



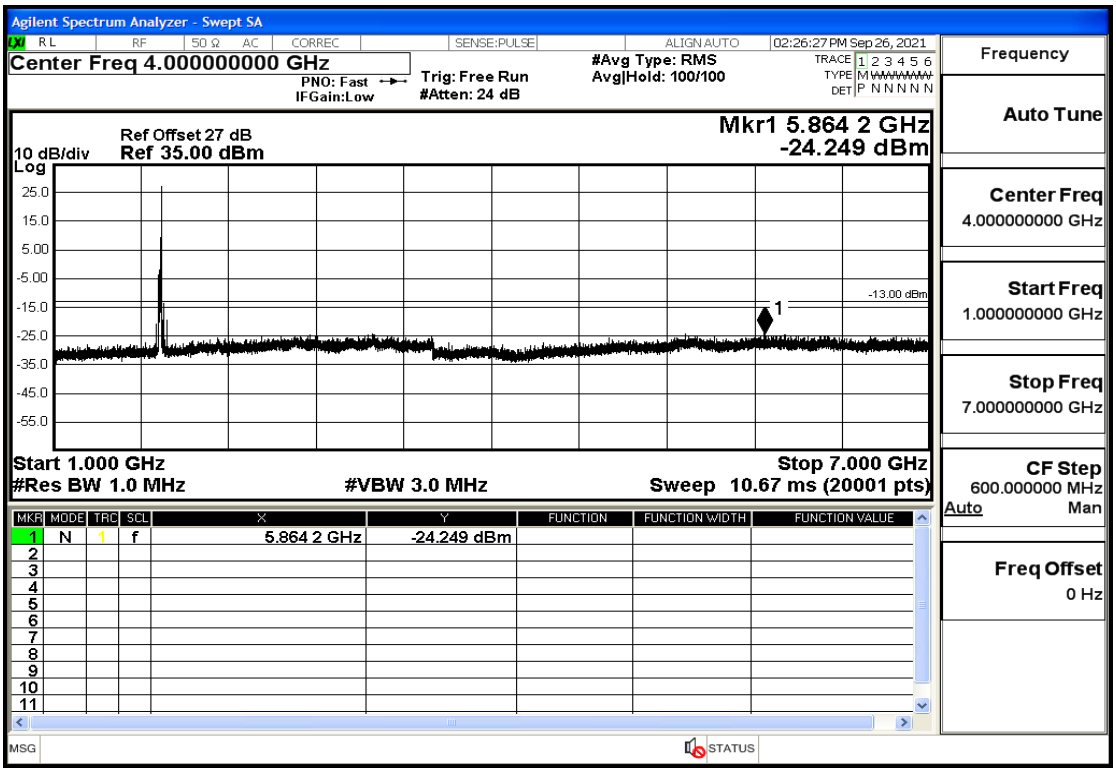
OB4-20-1732.5-QPSK-1#LOW@13.6GHz-20GHz@Pass



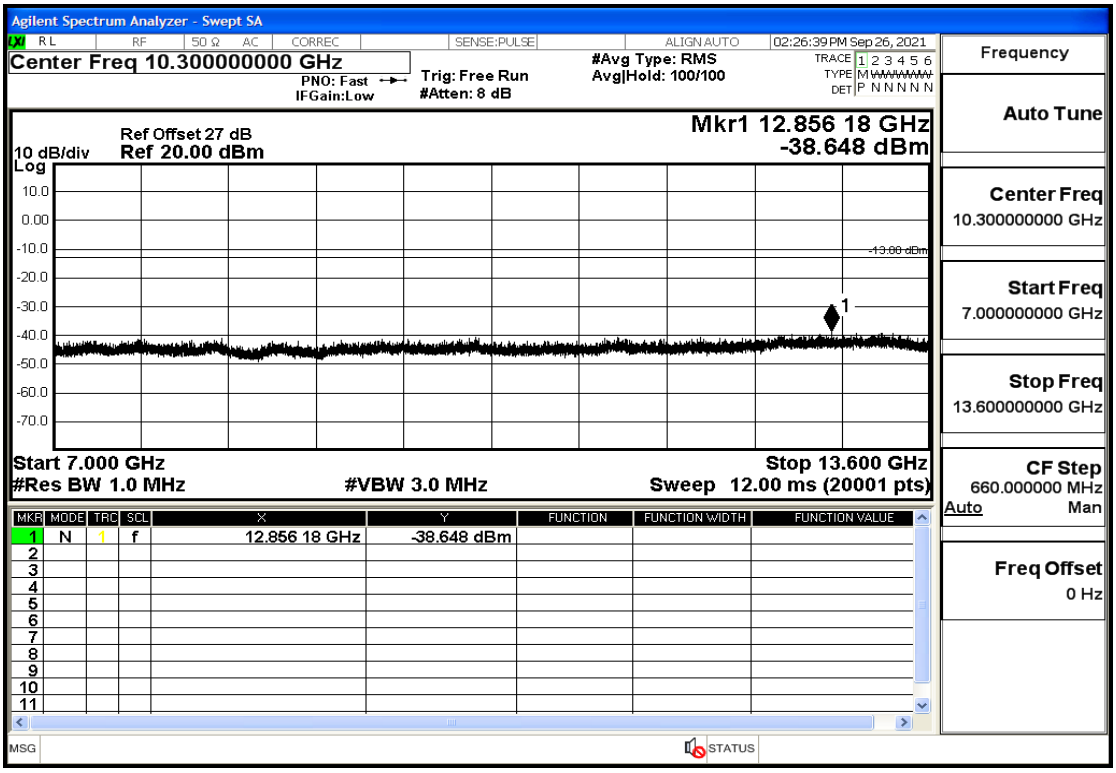
OB4-20-1732.5-QPSK-1#HIGH@30mHz-1GHz@Pass



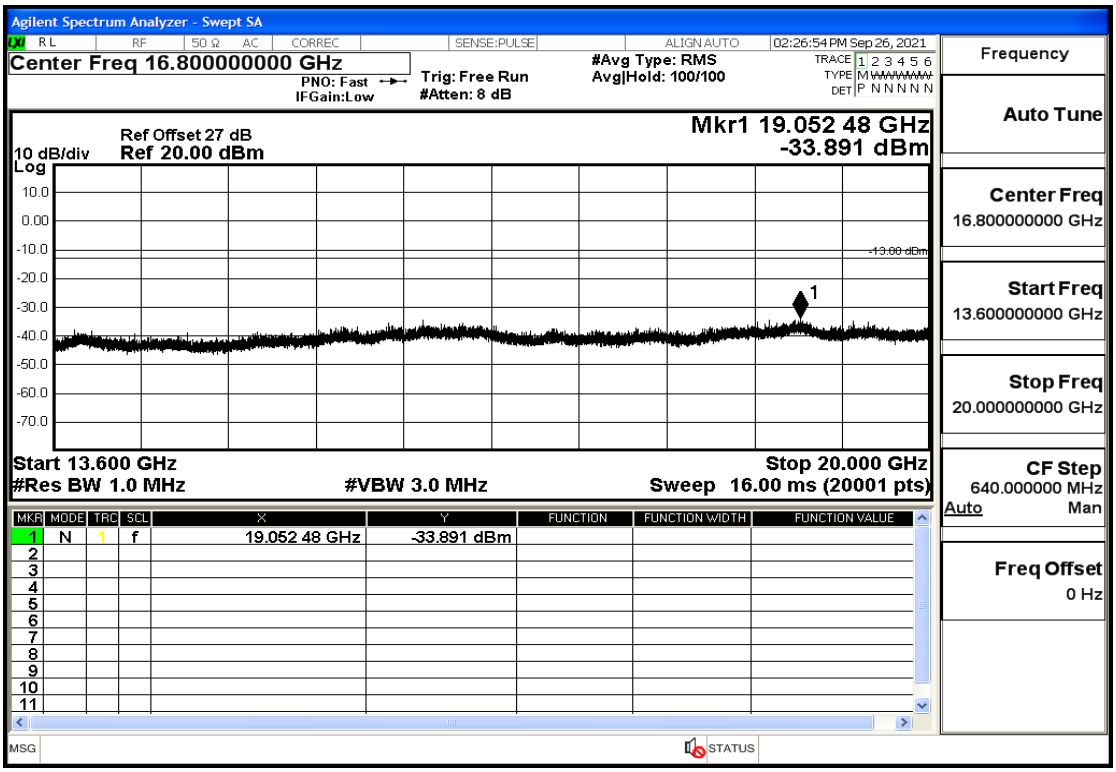
OB4-20-1732.5-QPSK-1#HIGH@1GHz-7GHz@Pass



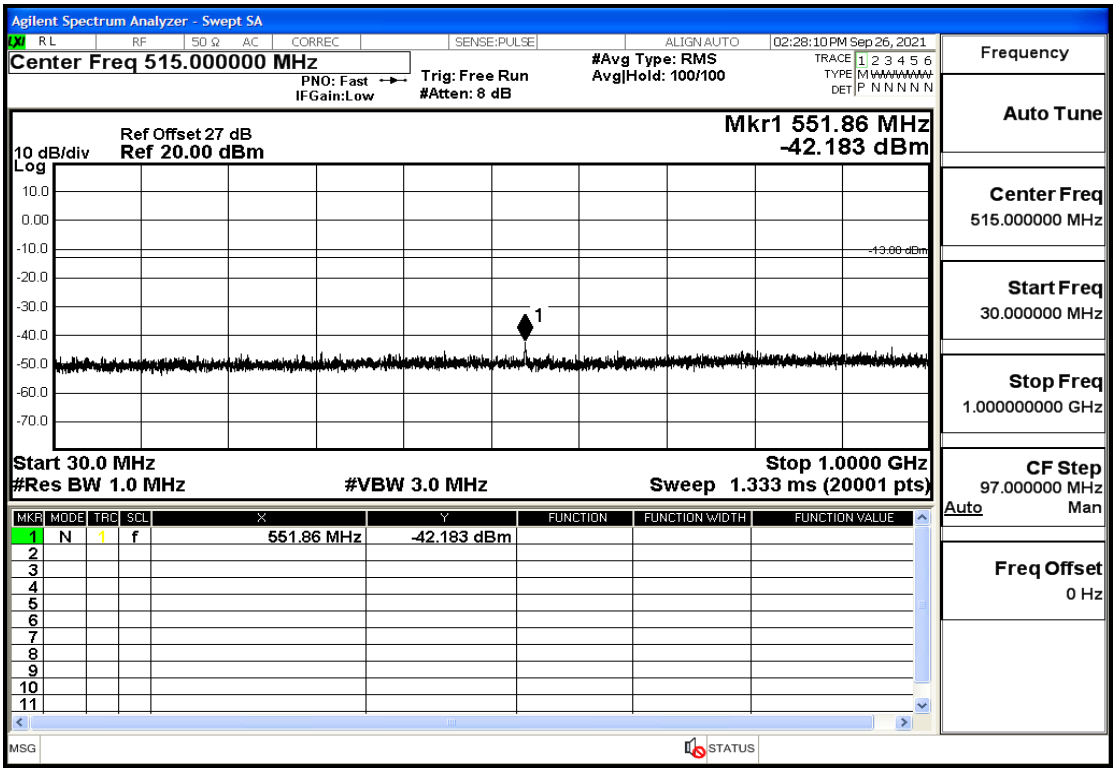
OB4-20-1732.5-QPSK-1#HIGH@7GHz-13.6GHz@Pass



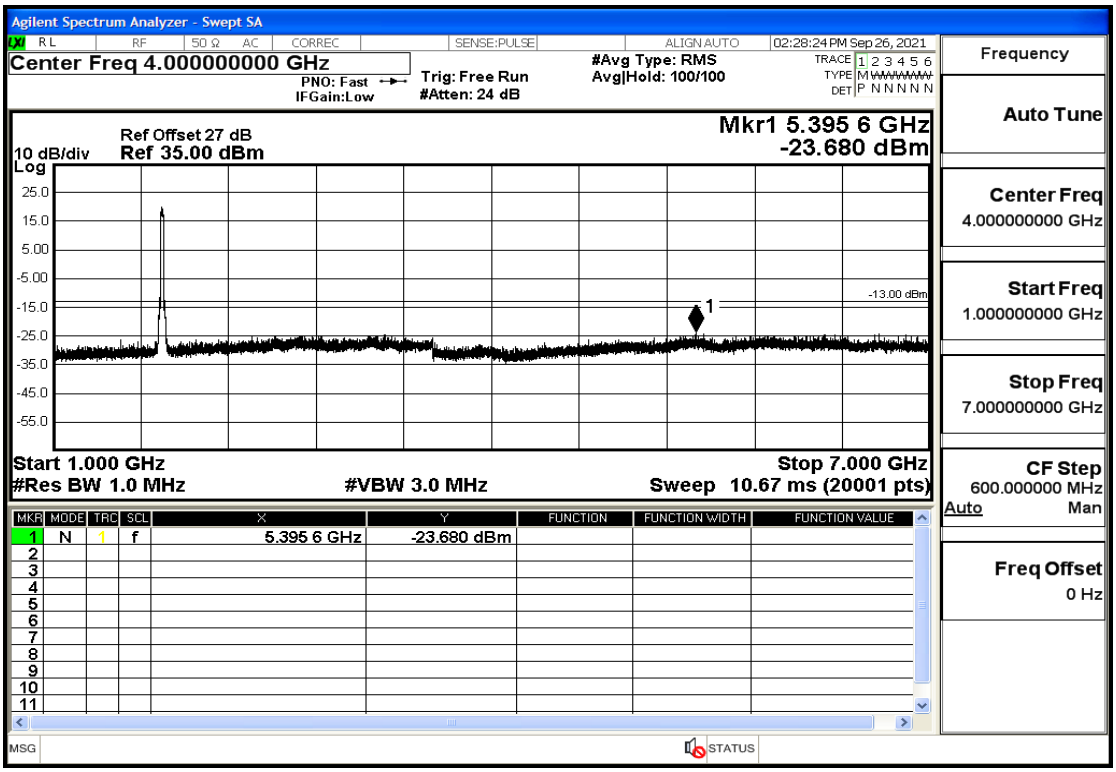
OB4-20-1732.5-QPSK-1#HIGH@13.6GHz-20GHz@Pass



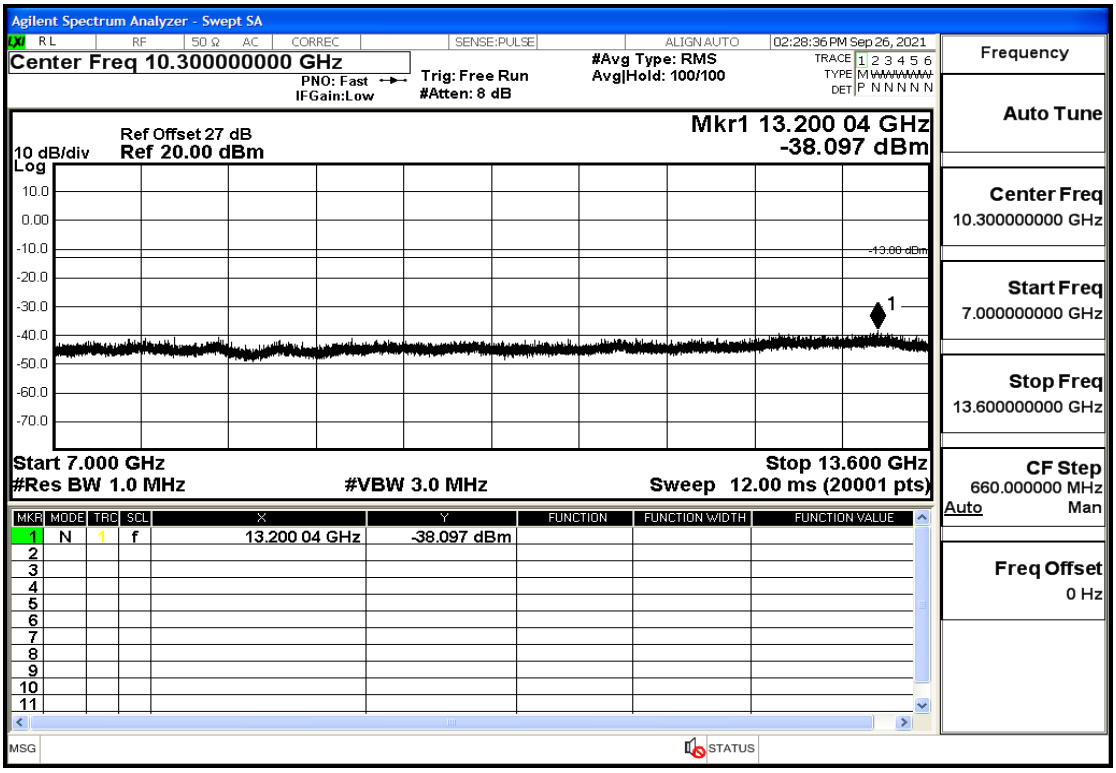
OB4-20-1745-QPSK-100#0@30mHz-1GHz@Pass



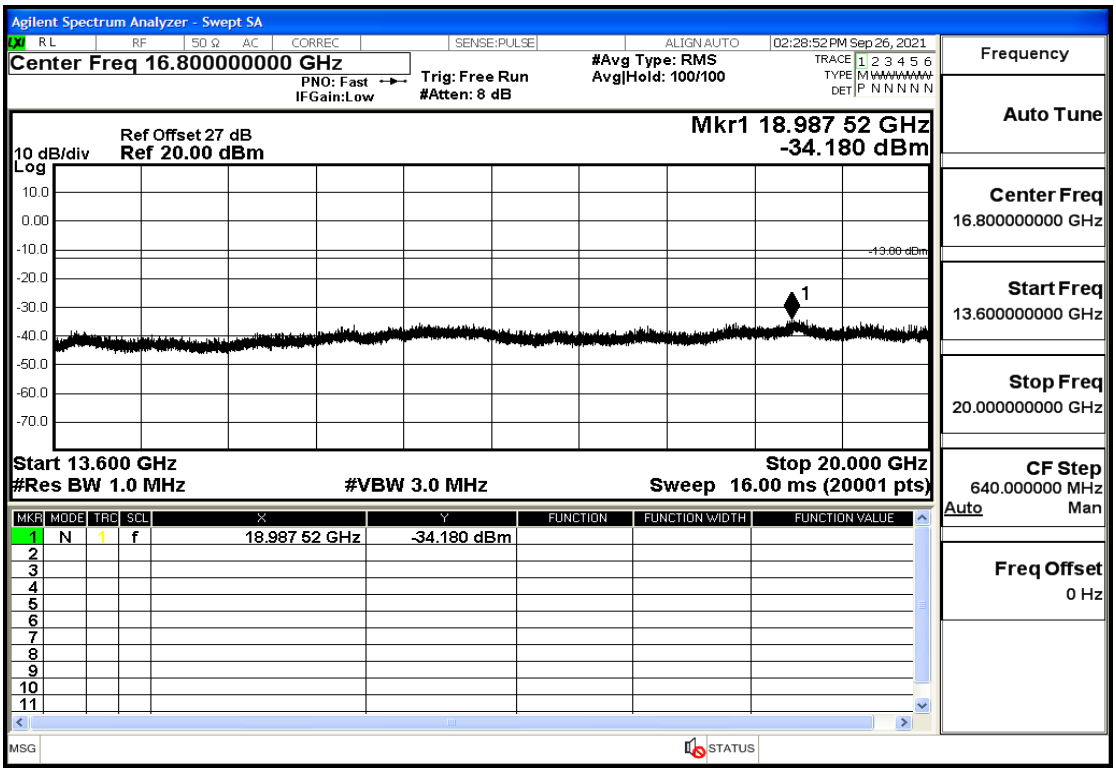
OB4-20-1745-QPSK-100#0@1GHz-7GHz@Pass



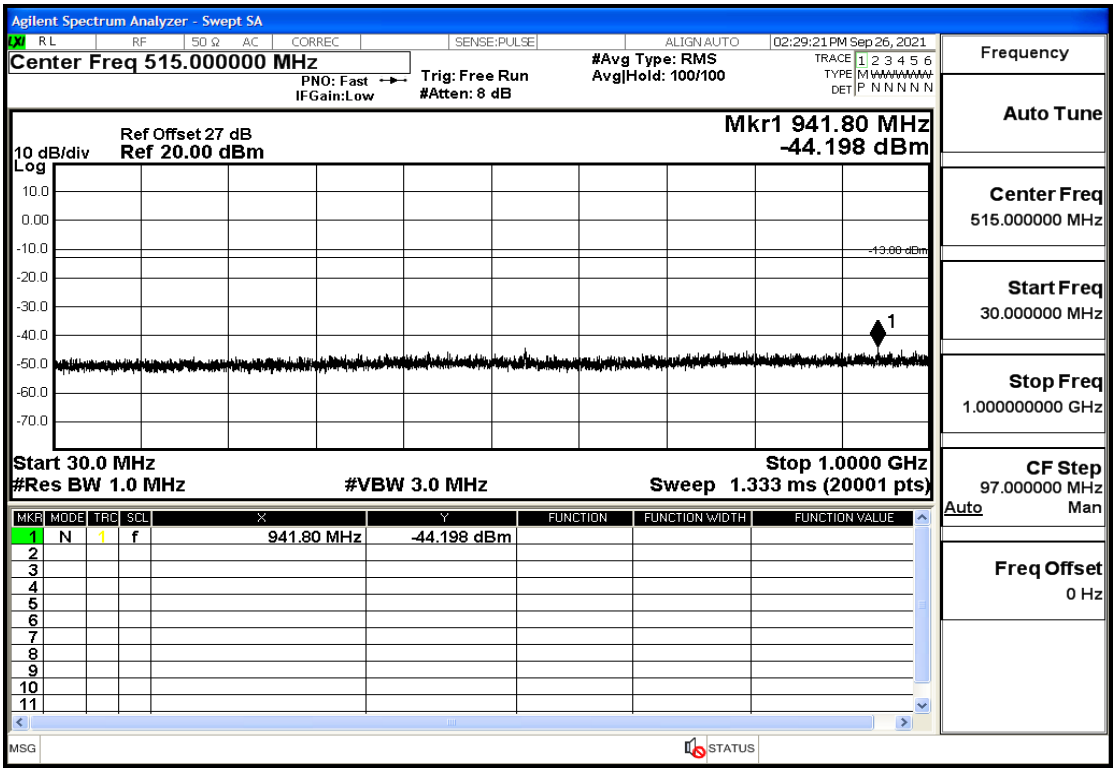
OB4-20-1745-QPSK-100#0@7GHz-13.6GHz@Pass



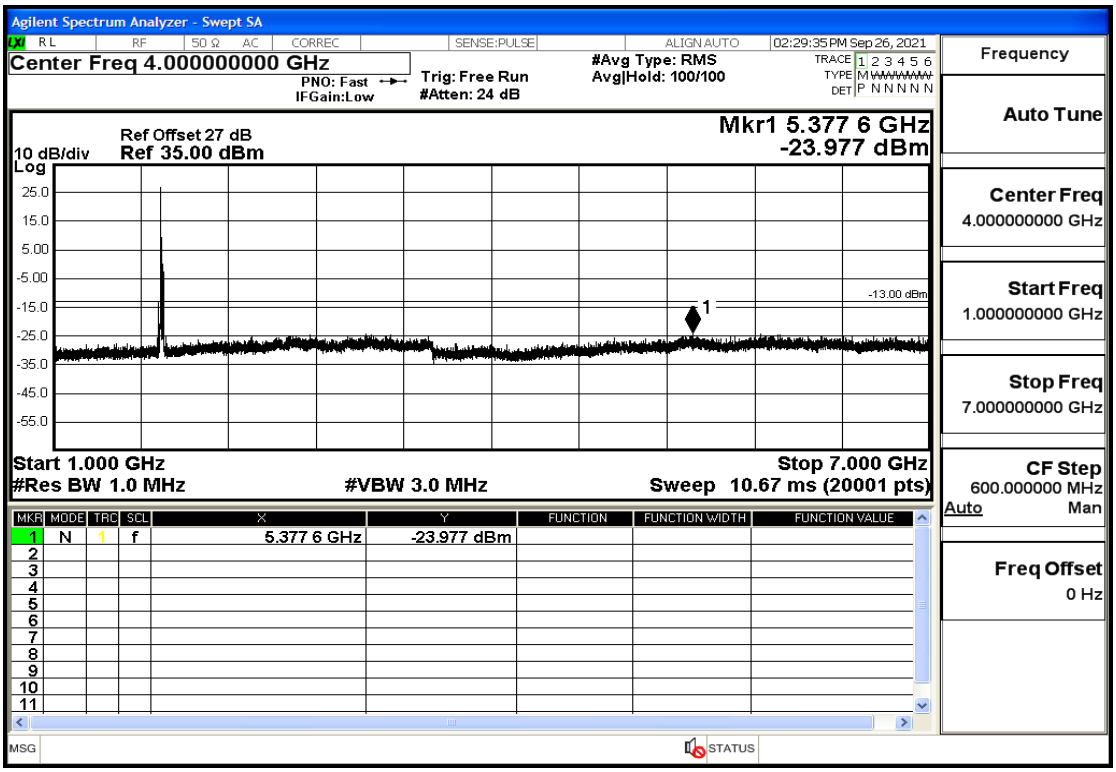
OB4-20-1745-QPSK-100#0@13.6GHz-20GHz@Pass



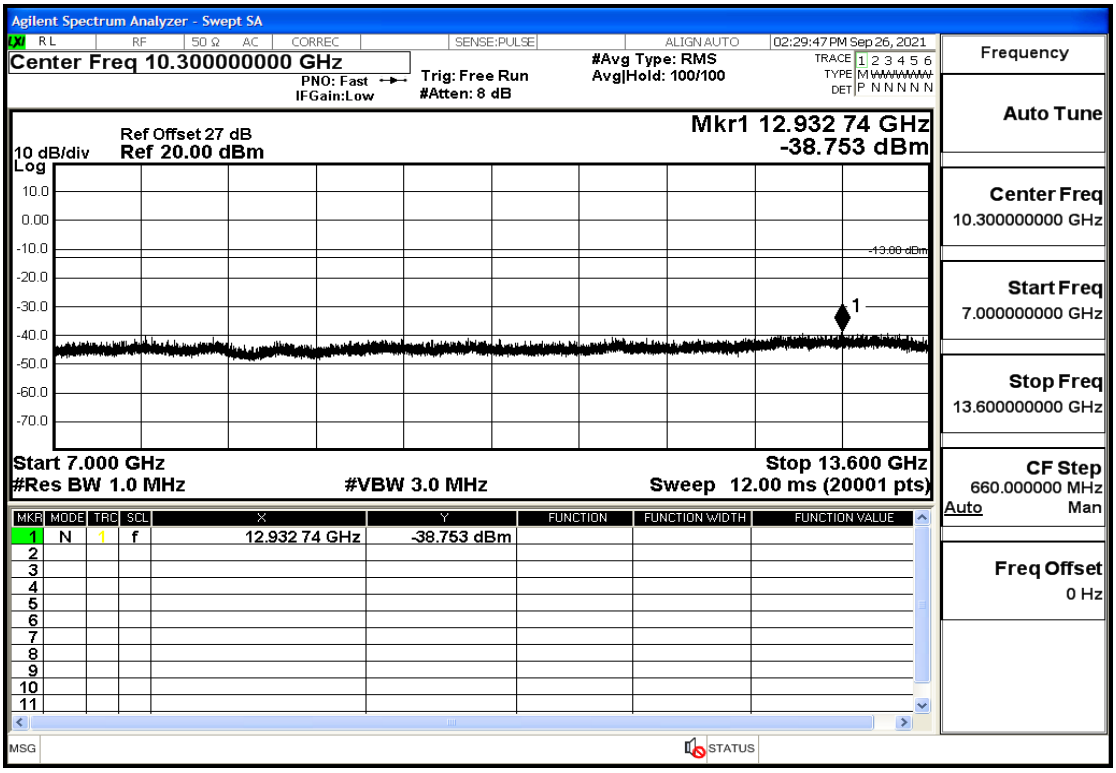
OB4-20-1745-QPSK-1#LOW@30mHz-1GHz@Pass



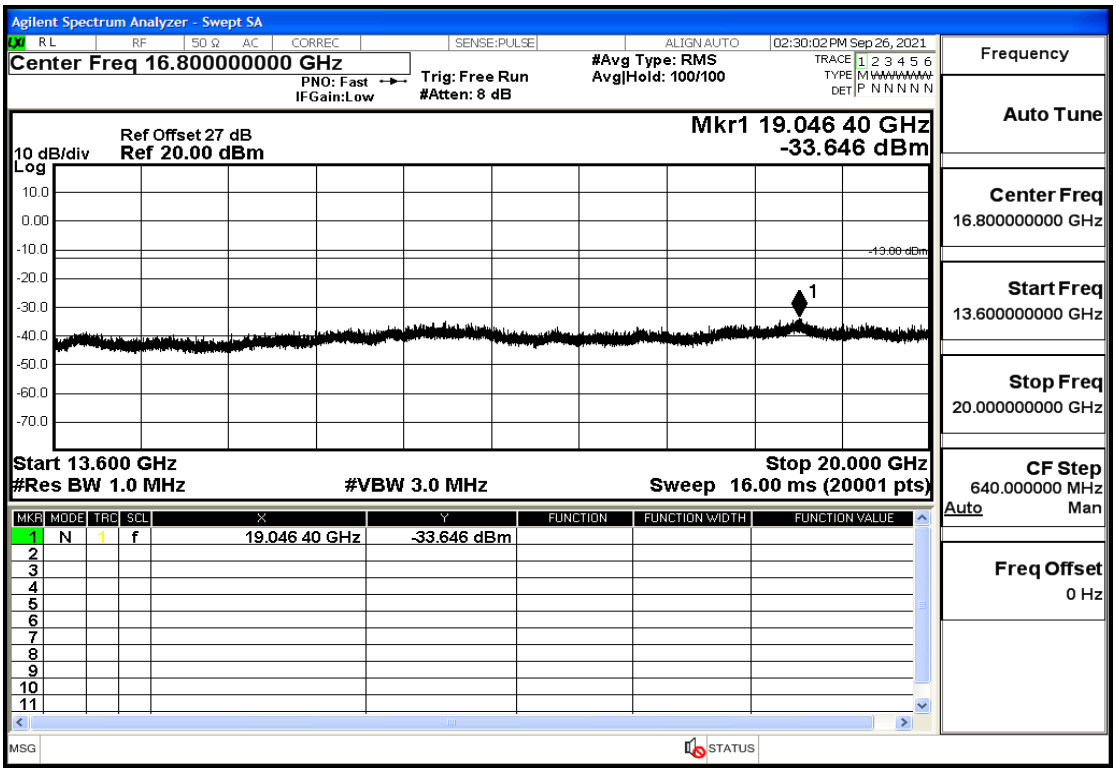
OB4-20-1745-QPSK-1#LOW@1GHz-7GHz@Pass



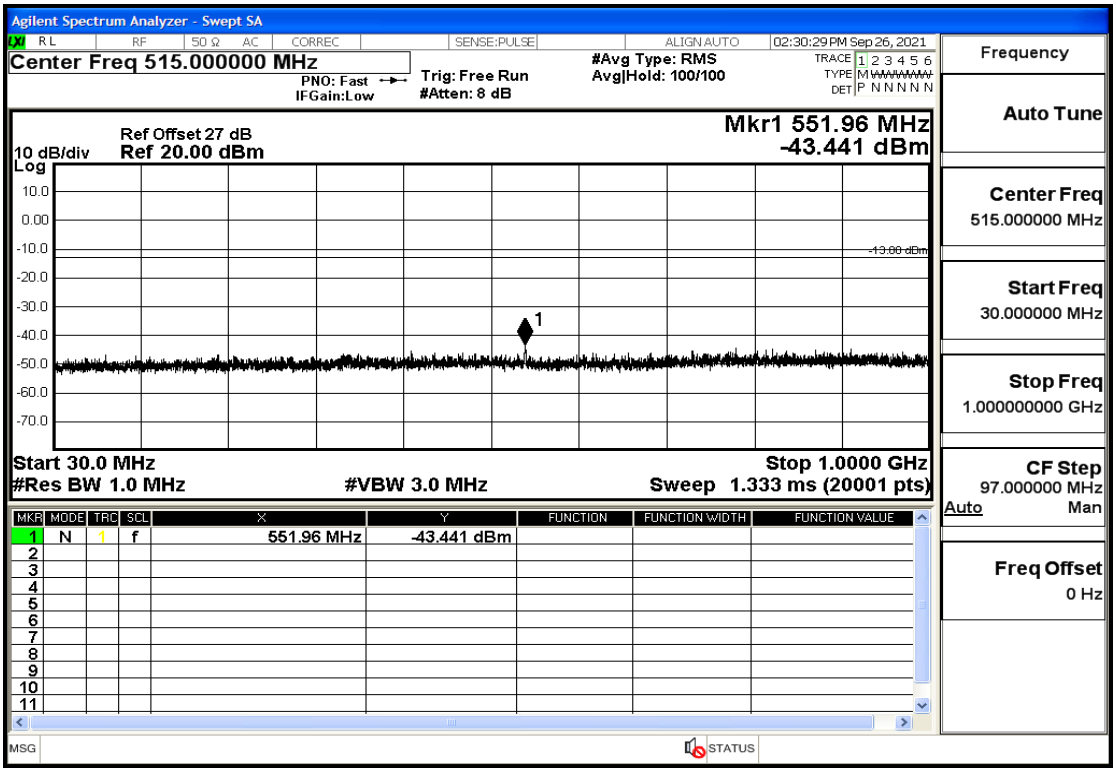
OB4-20-1745-QPSK-1#LOW@7GHz-13.6GHz@Pass



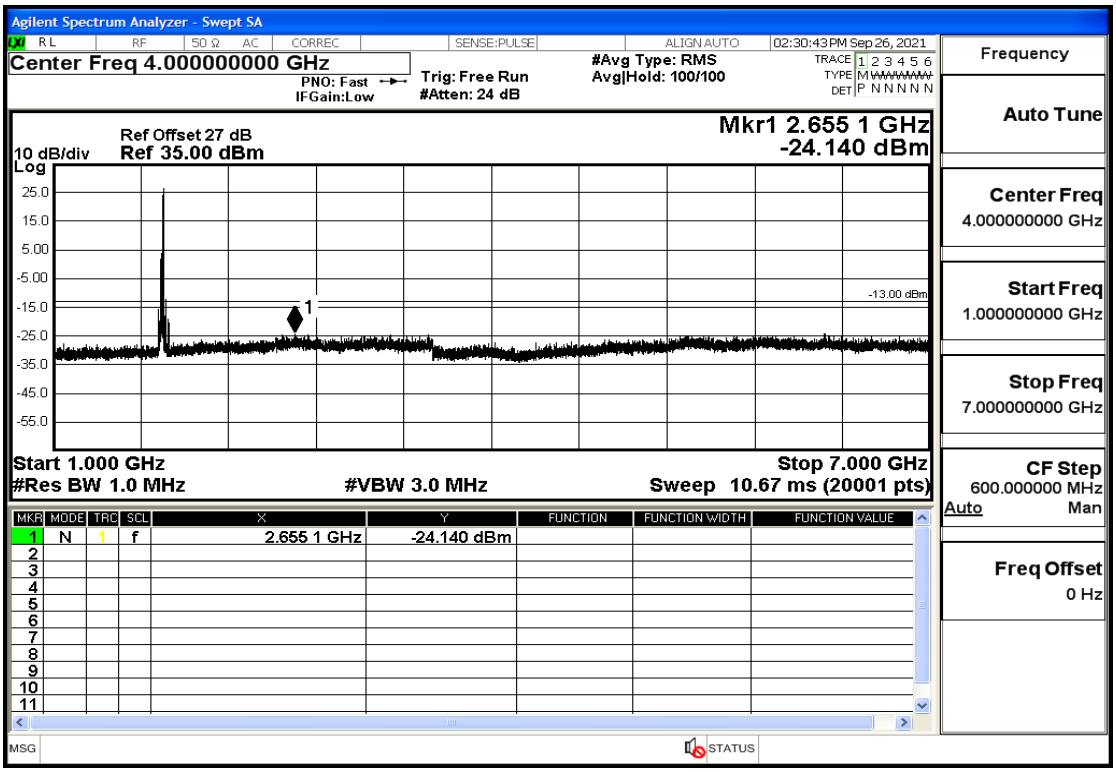
OB4-20-1745-QPSK-1#LOW@13.6GHz-20GHz@Pass



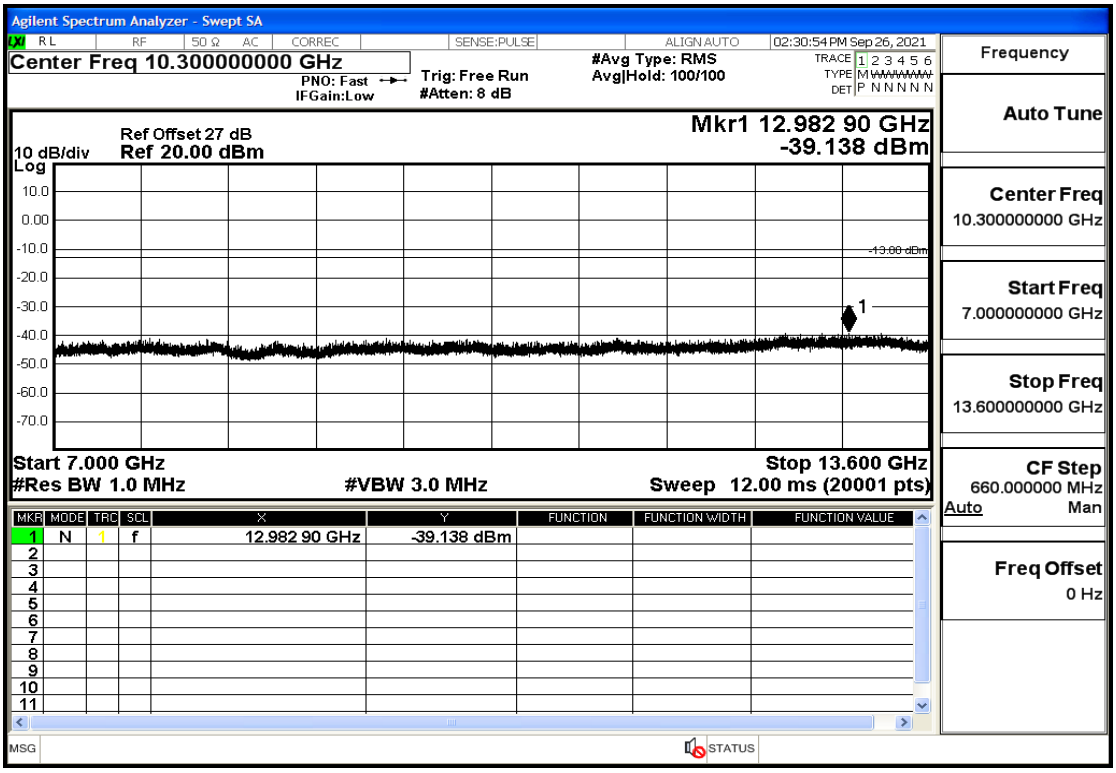
OB4-20-1745-QPSK-1#HIGH@30mHz-1GHz@Pass



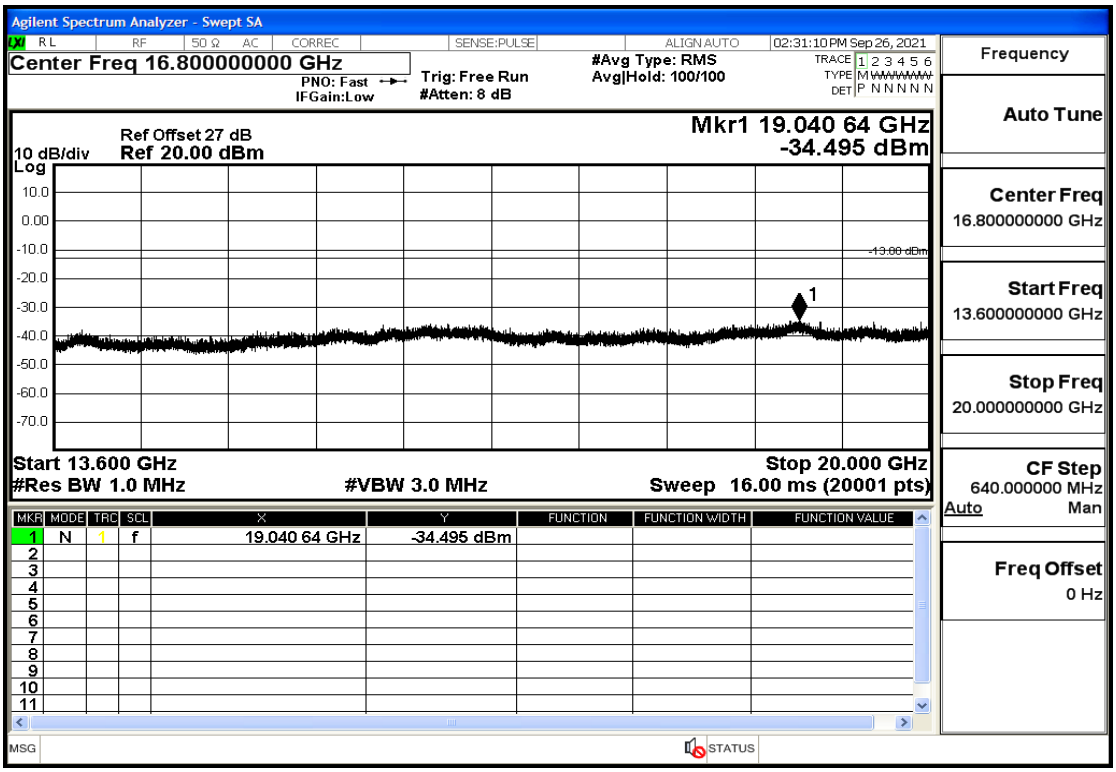
OB4-20-1745-QPSK-1#HIGH@1GHz-7GHz@Pass



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



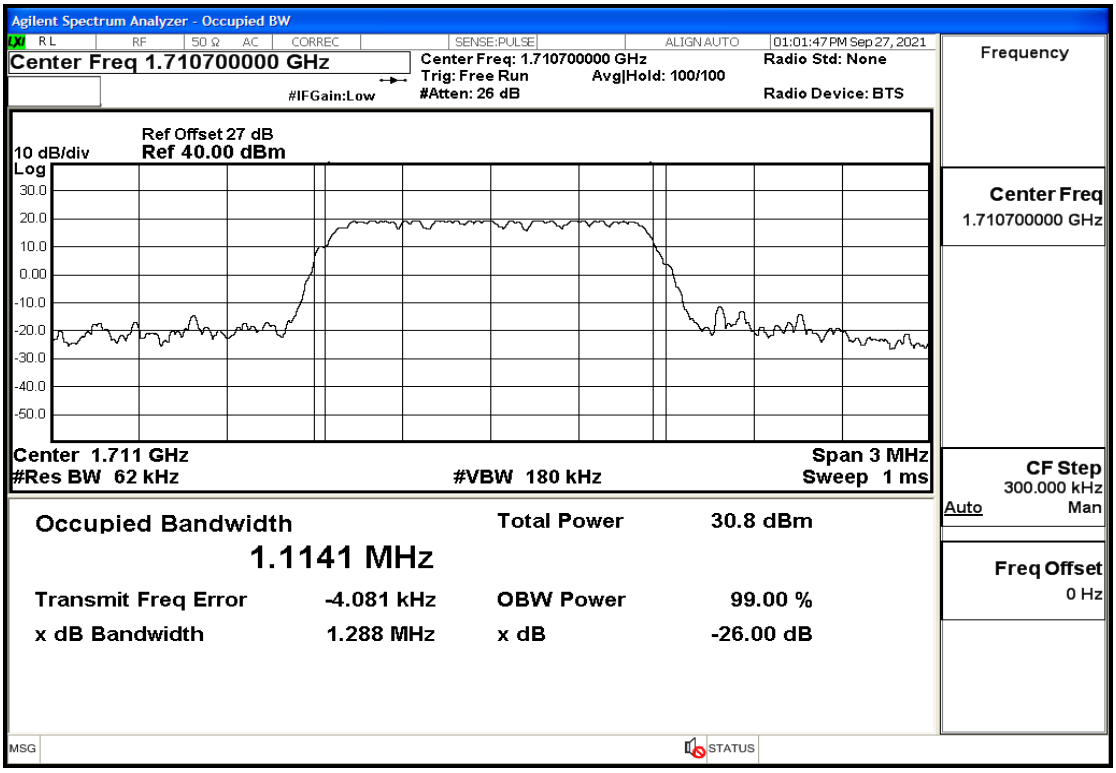
OB4-20-1745-QPSK-1#HIGH@13.6GHz-20GHz@Pass



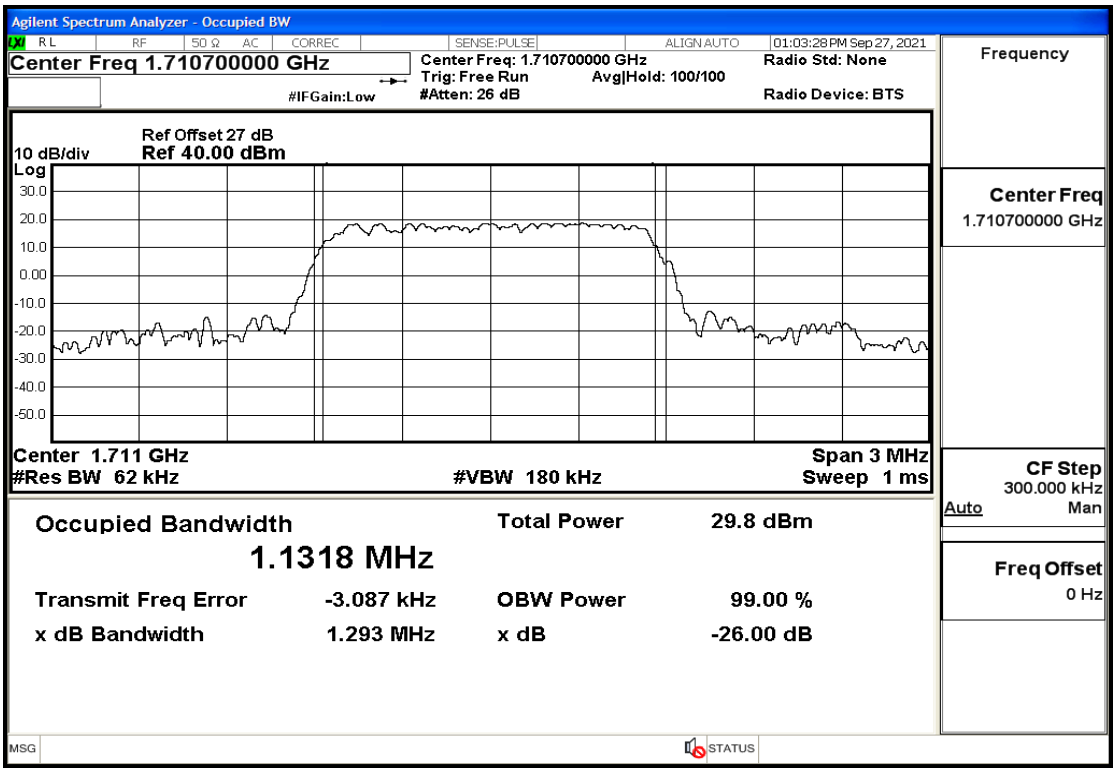
Emission bandwidth and OBW

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	1114.1	1288	No limit
Band4	1.4	1710.7	16QAM	6	LOW	1131.8	1293	No limit
Band4	1.4	1732.5	QPSK	6	LOW	1117.6	1281	No limit
Band4	1.4	1732.5	16QAM	6	LOW	1112.4	1288	No limit
Band4	1.4	1754.3	QPSK	6	LOW	1112.2	1299	No limit
Band4	1.4	1754.3	16QAM	6	LOW	1113.2	1289	No limit
Band4	3	1711.5	QPSK	15	LOW	2772.5	3096	No limit
Band4	3	1711.5	16QAM	15	LOW	2772.5	3096	No limit
Band4	3	1732.5	QPSK	15	LOW	2759.7	3079	No limit
Band4	3	1732.5	16QAM	15	LOW	2757.6	3070	No limit
Band4	3	1753.5	QPSK	15	LOW	2766.3	3120	No limit
Band4	3	1753.5	16QAM	15	LOW	2786.4	3074	No limit
Band4	5	1712.5	QPSK	25	LOW	4586.2	5061	No limit
Band4	5	1712.5	16QAM	25	LOW	4564.6	5056	No limit
Band4	5	1732.5	QPSK	25	LOW	4569.8	5084	No limit
Band4	5	1732.5	16QAM	25	LOW	4565.4	5069	No limit
Band4	5	1752.5	QPSK	25	LOW	4580.8	5124	No limit
Band4	5	1752.5	16QAM	25	LOW	4575.6	5080	No limit
Band4	10	1715	QPSK	50	LOW	9135.1	10150	No limit
Band4	10	1715	16QAM	12	LOW	4272.6	6795	No limit
Band4	10	1732.5	QPSK	50	LOW	9111	9946	No limit
Band4	10	1732.5	16QAM	12	LOW	4622.8	7296	No limit
Band4	10	1750	QPSK	50	LOW	9098.1	10080	No limit
Band4	10	1750	16QAM	12	LOW	4019.3	6832	No limit
Band4	15	1717.5	QPSK	75	LOW	13705	15330	No limit
Band4	15	1717.5	16QAM	16	LOW	6212.8	9862	No limit
Band4	15	1732.5	QPSK	75	LOW	13678	15350	No limit
Band4	15	1732.5	16QAM	16	LOW	5956.9	9907	No limit
Band4	15	1747.5	QPSK	75	LOW	13694	15320	No limit
Band4	15	1747.5	16QAM	16	LOW	5778.4	9680	No limit
Band4	20	1720	QPSK	100	LOW	18294	20190	No limit
Band4	20	1720	16QAM	18	LOW	8094.6	13800	No limit
Band4	20	1732.5	QPSK	100	LOW	18219	20120	No limit
Band4	20	1732.5	16QAM	18	LOW	8876.9	14740	No limit
Band4	20	1745	QPSK	100	LOW	18261	20100	No limit
Band4	20	1745	16QAM	18	LOW	8041.7	13550	No limit

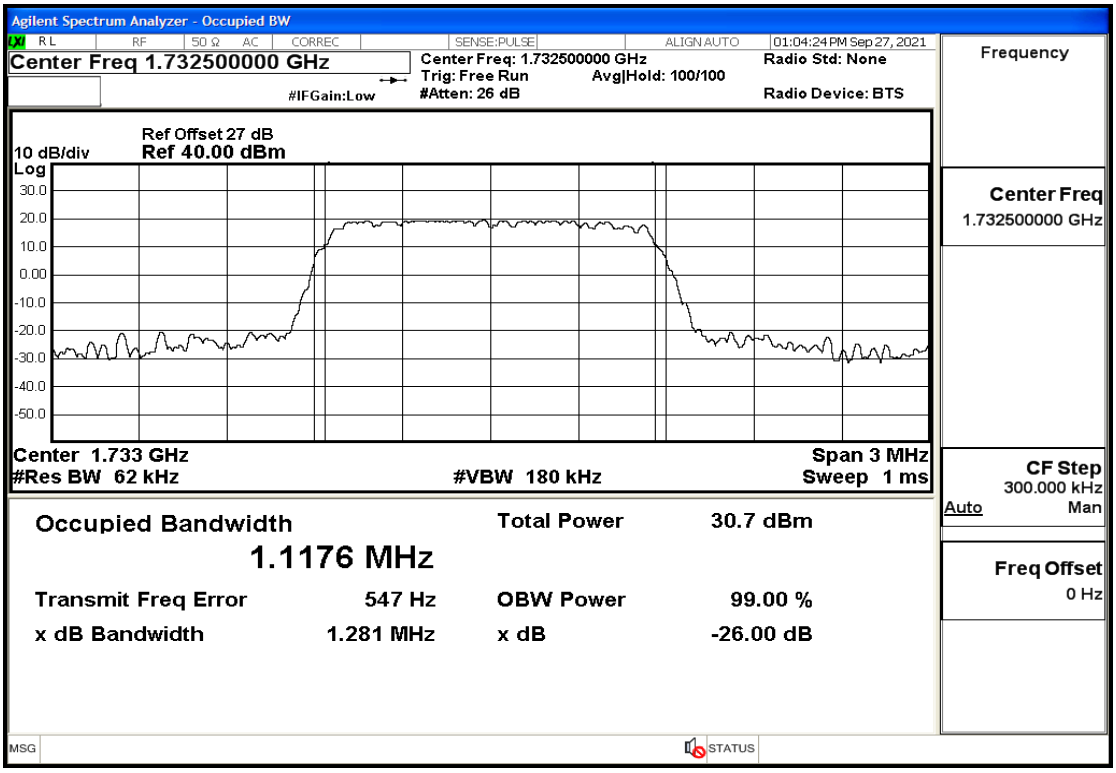
Band4-1.4-1710.7-QPSK-6#LOW@26dB and 99PCT Bandwidth



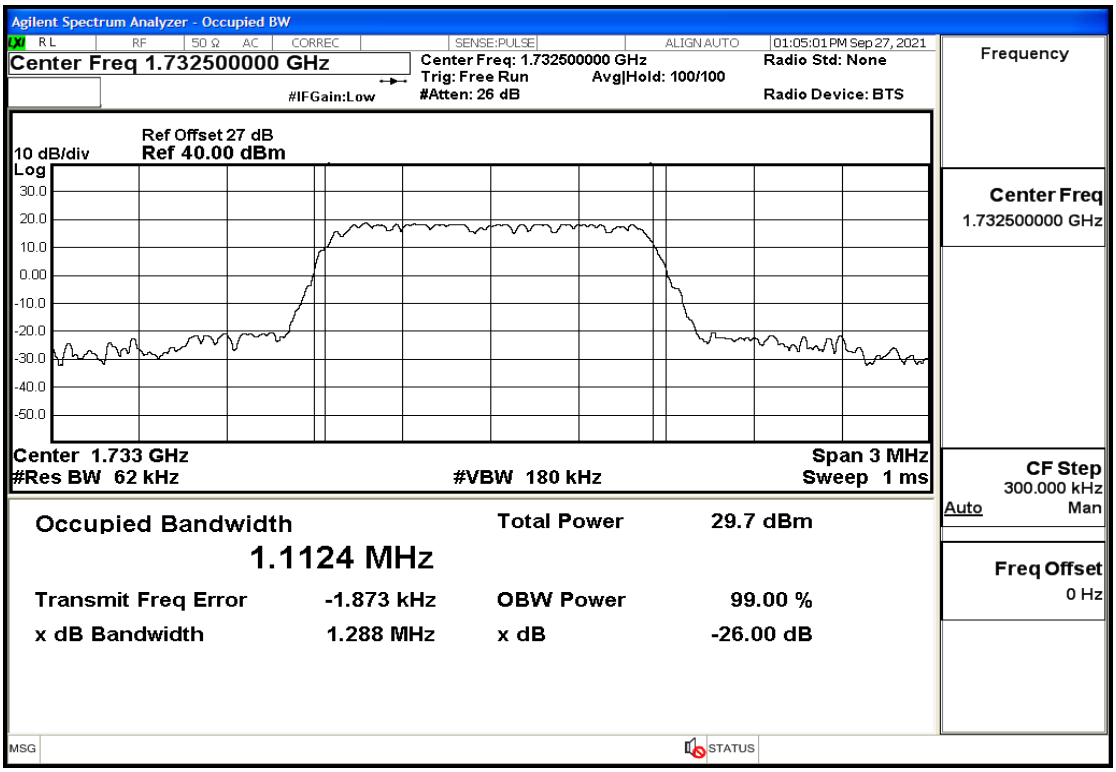
Band4-1.4-1710.7-16QAM-6#LOW@26dB and 99PCT Bandwidth



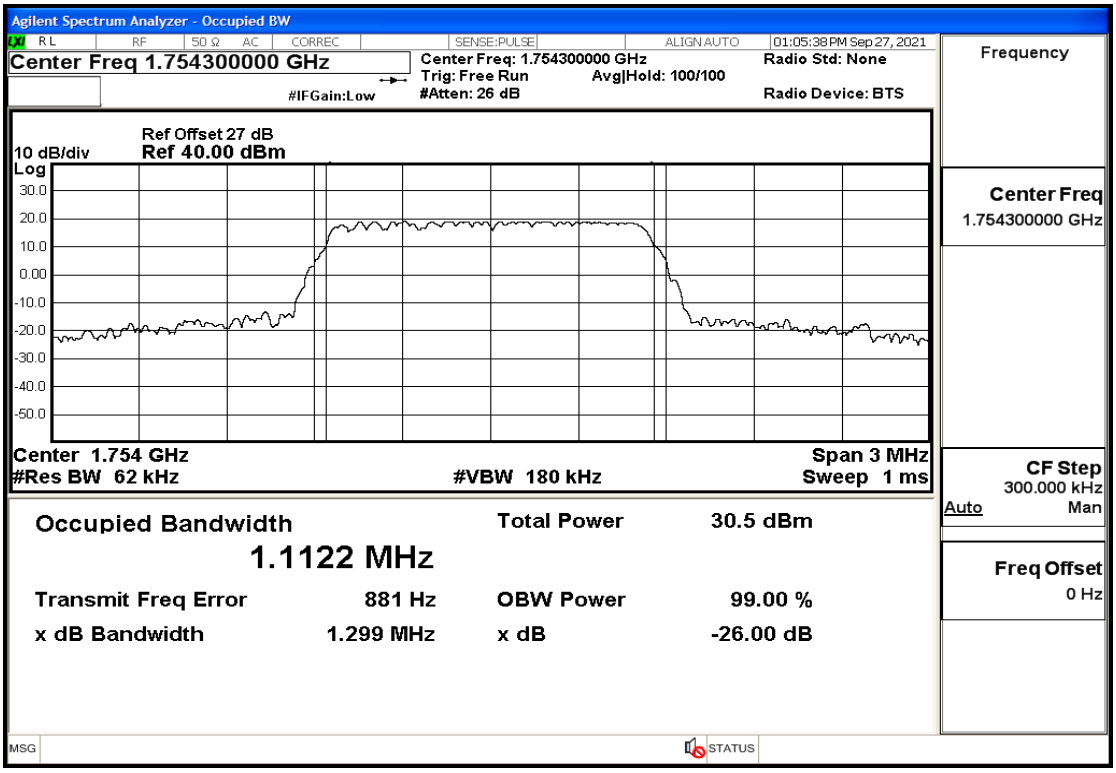
Band4-1.4-1732.5-QPSK-6#LOW@26dB and 99PCT Bandwidth



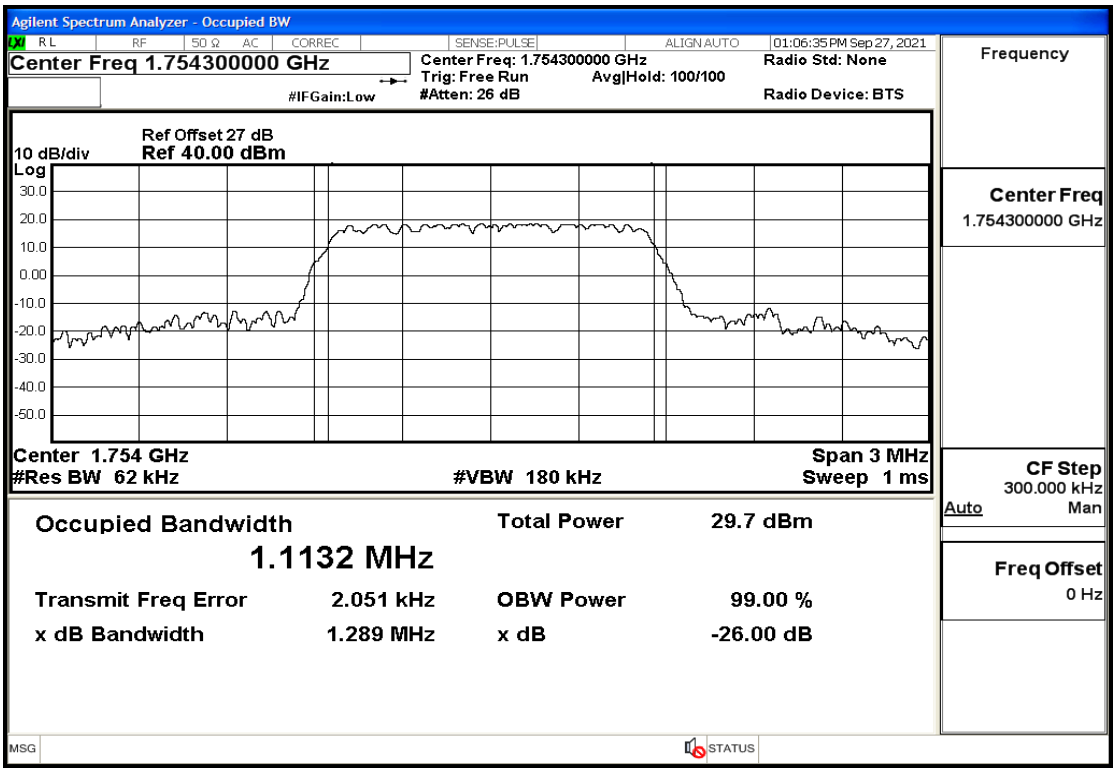
Band4-1.4-1732.5-16QAM-6#LOW@26dB and 99PCT Bandwidth



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

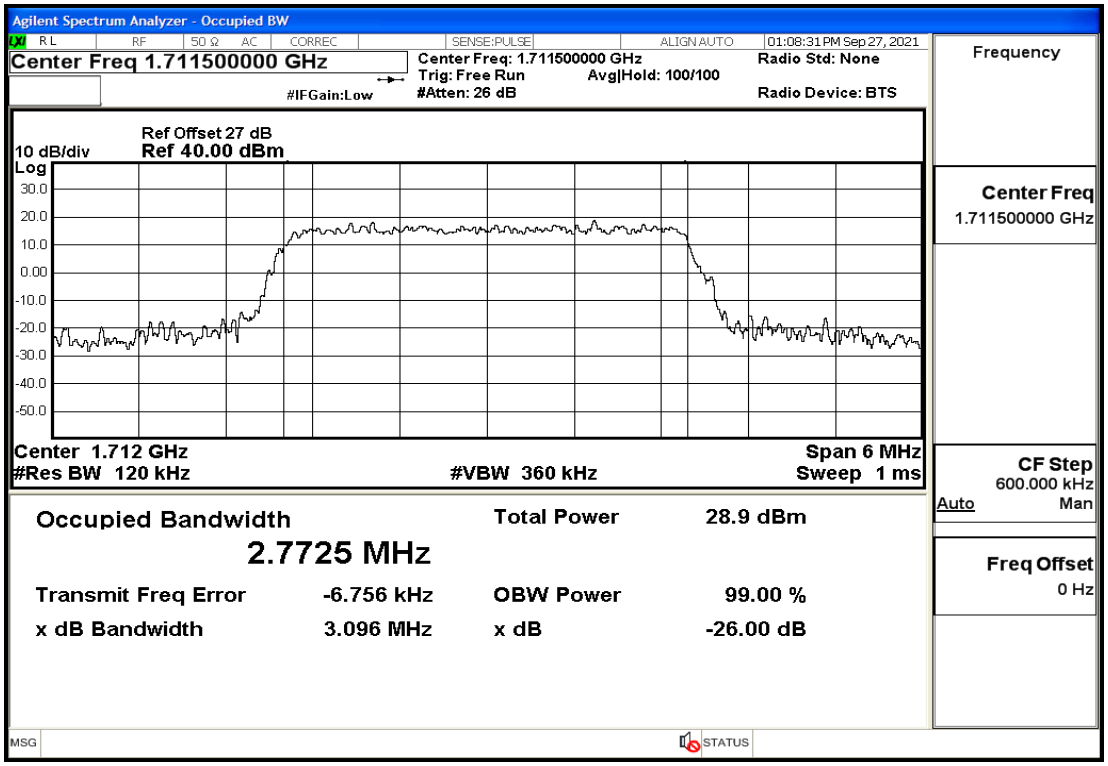


Band4-1.4-1754.3-16QAM-6#LOW@26dB and 99PCT Bandwidth

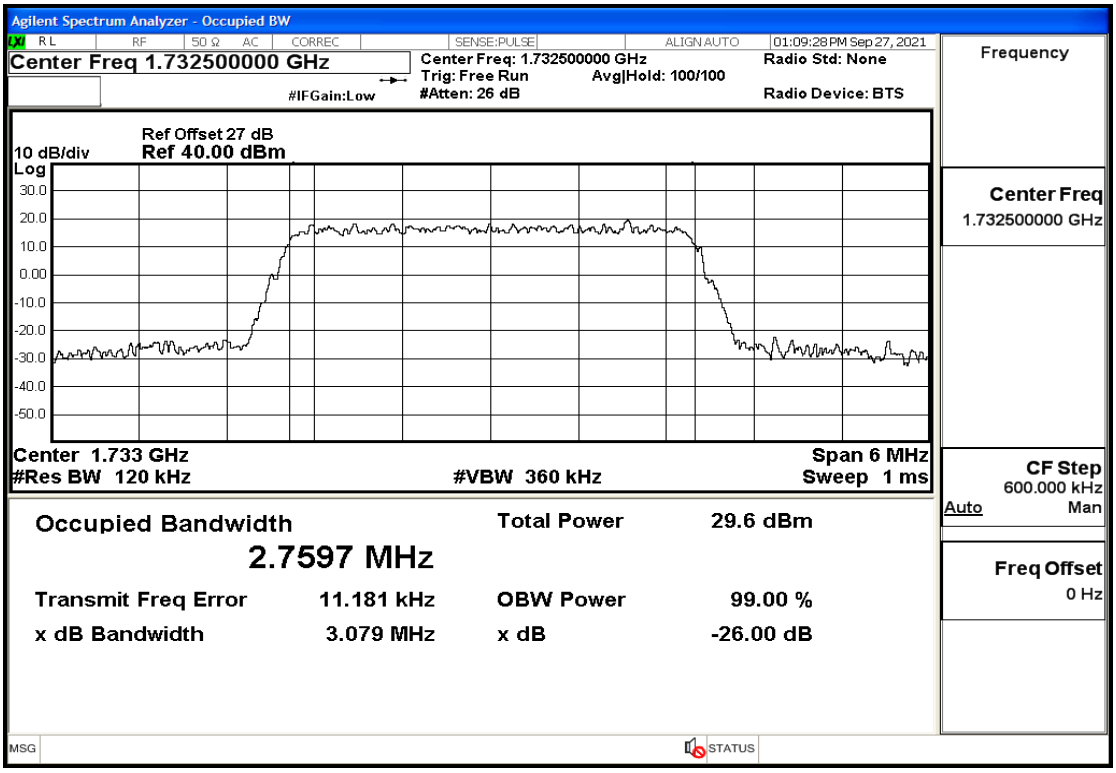


Band4-3-1711.5-QPSK-15#LOW@26dB and 99PCT Bandwidth

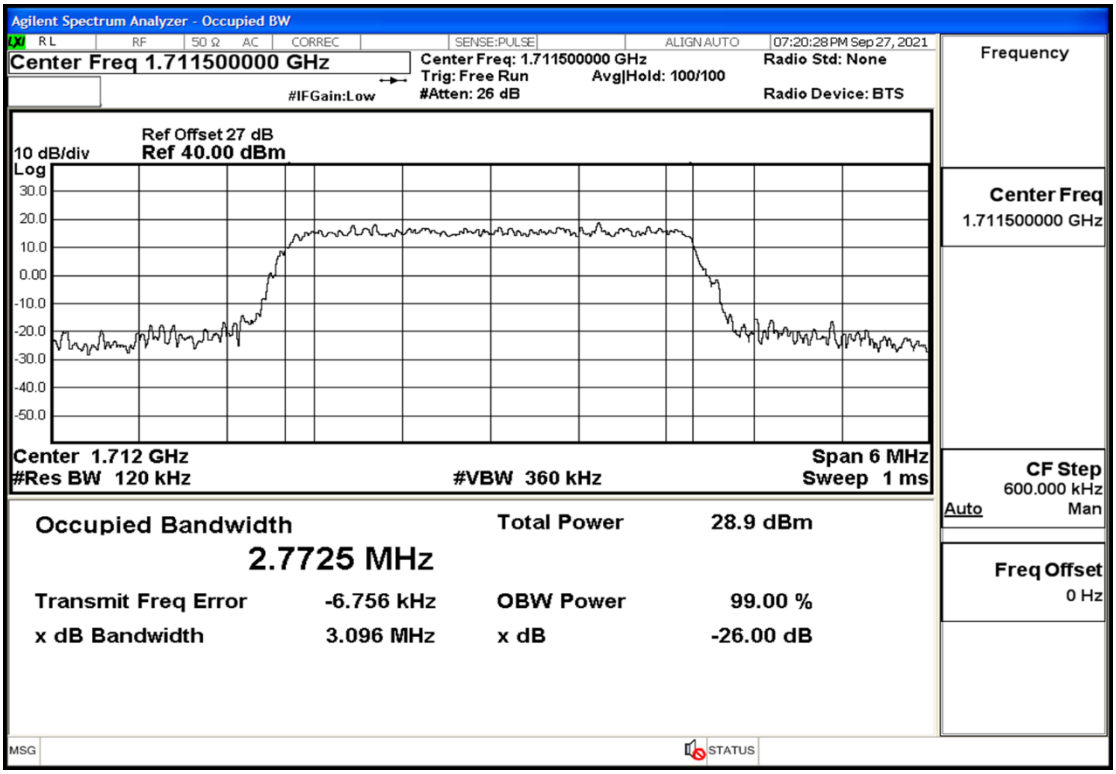
Band4-3-1711.5-16QAM-15#LOW@26dB and 99PCT Bandwidth



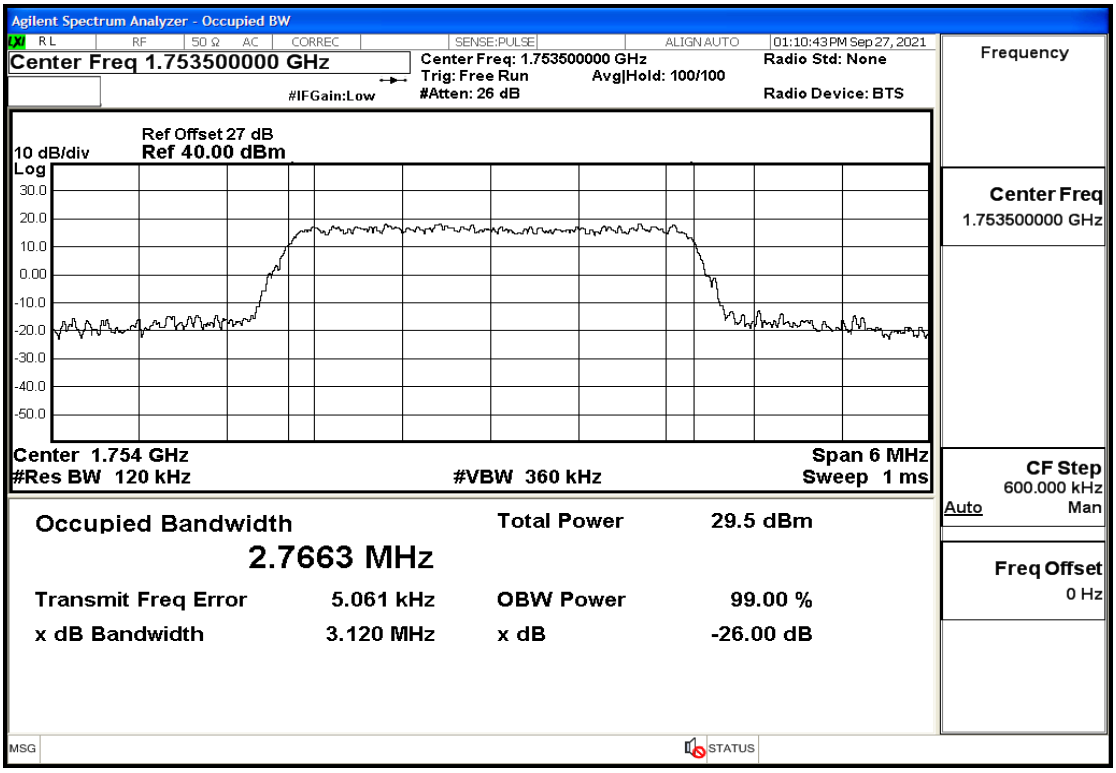
Band4-3-1732.5-QPSK-15#LOW@26dB and 99PCT Bandwidth



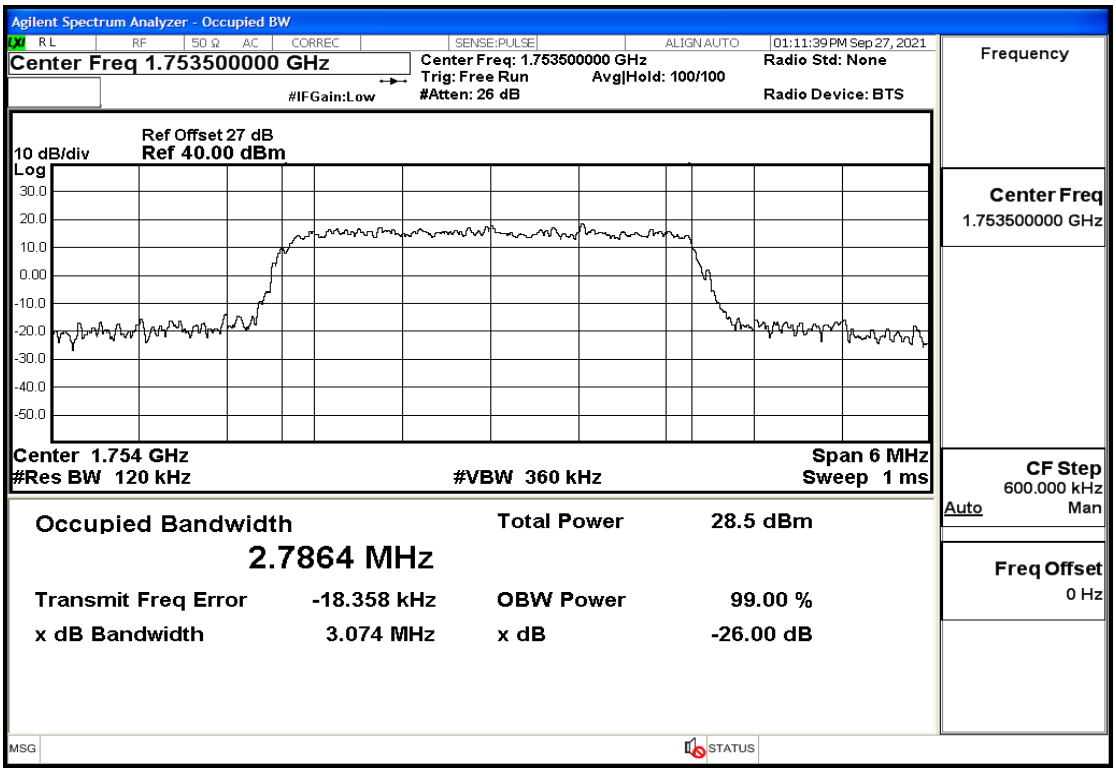
Band4-3-1732.5-16QAM-15#LOW@26dB and 99PCT Bandwidth



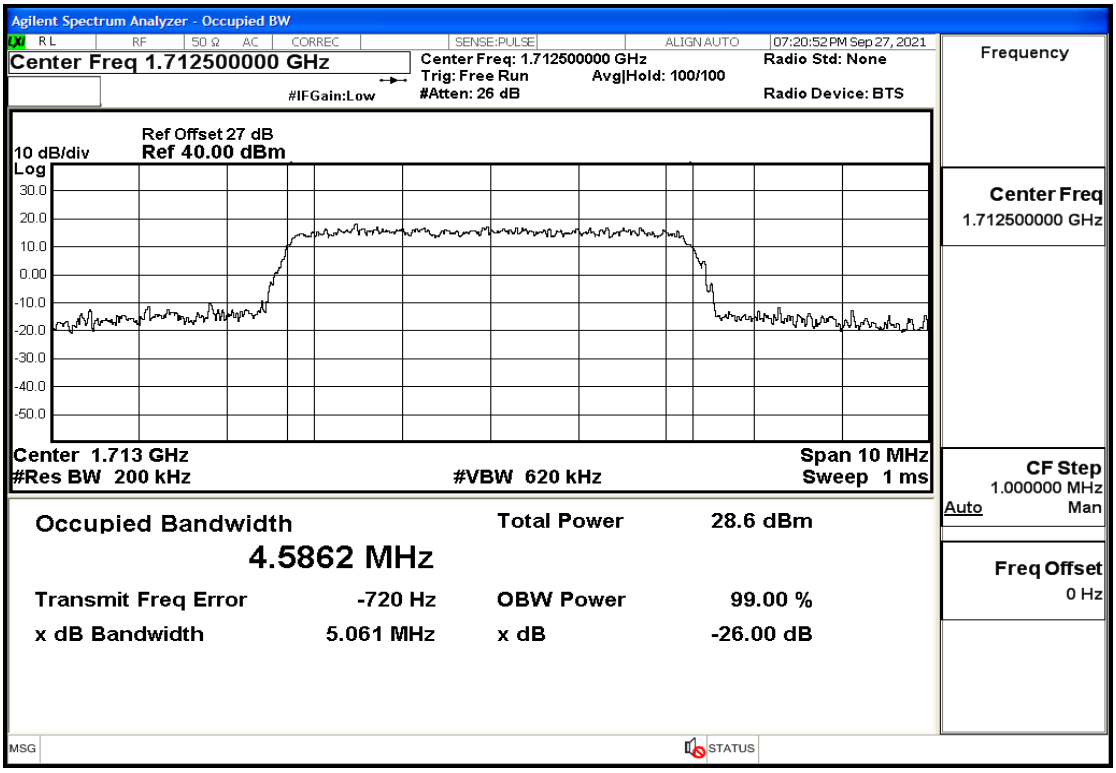
Band4-3-1753.5-QPSK-15#LOW@26dB and 99PCT Bandwidth



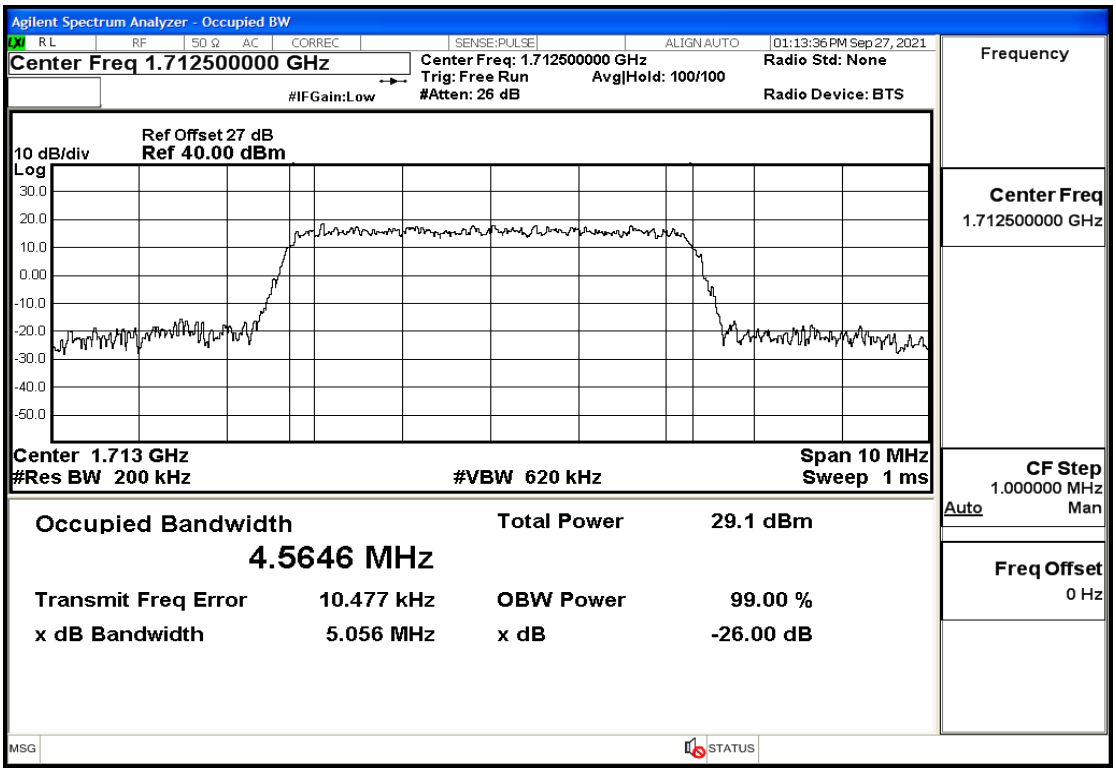
Band4-3-1753.5-16QAM-15#LOW@26dB and 99PCT Bandwidth



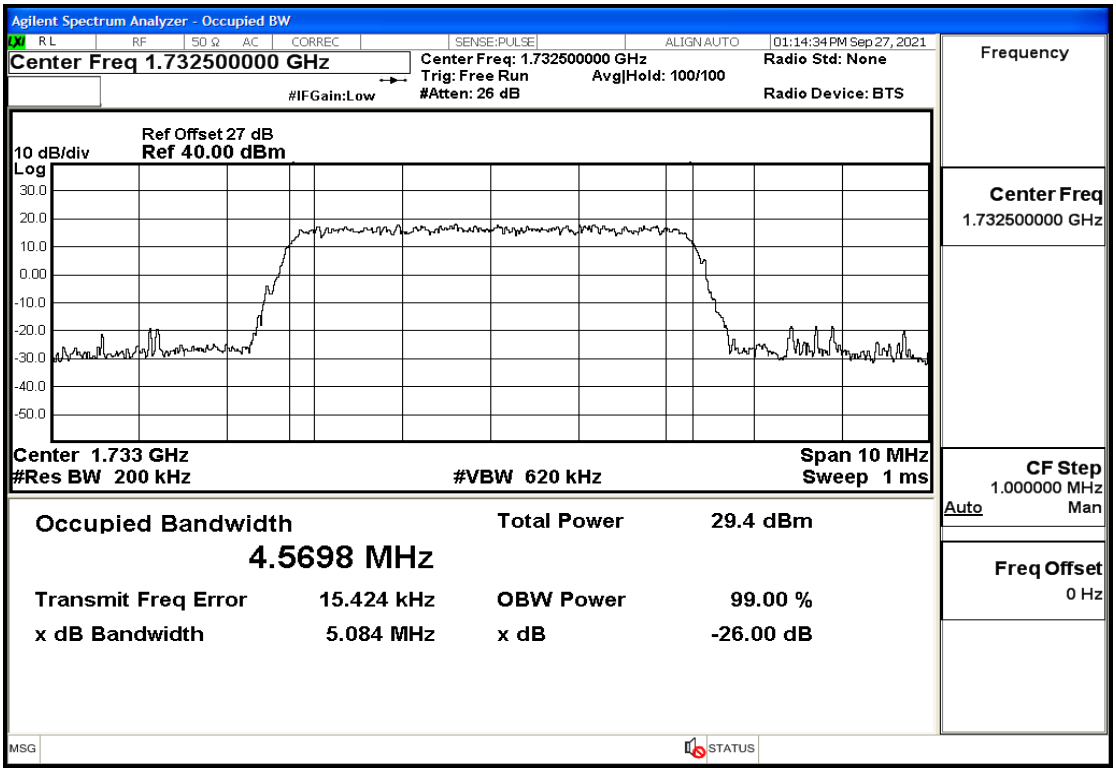
Band4-5-1712.5-QPSK-25#LOW@26dB and 99PCT Bandwidth



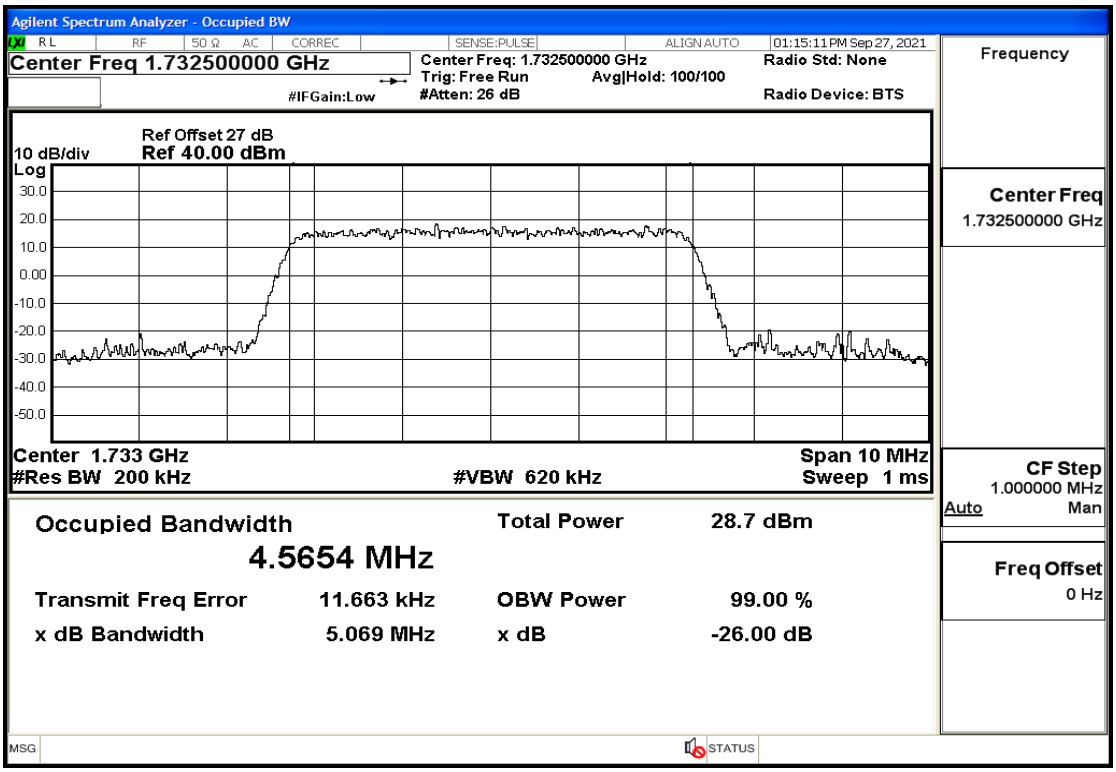
Band4-5-1712.5-16QAM-25#LOW@26dB and 99PCT Bandwidth



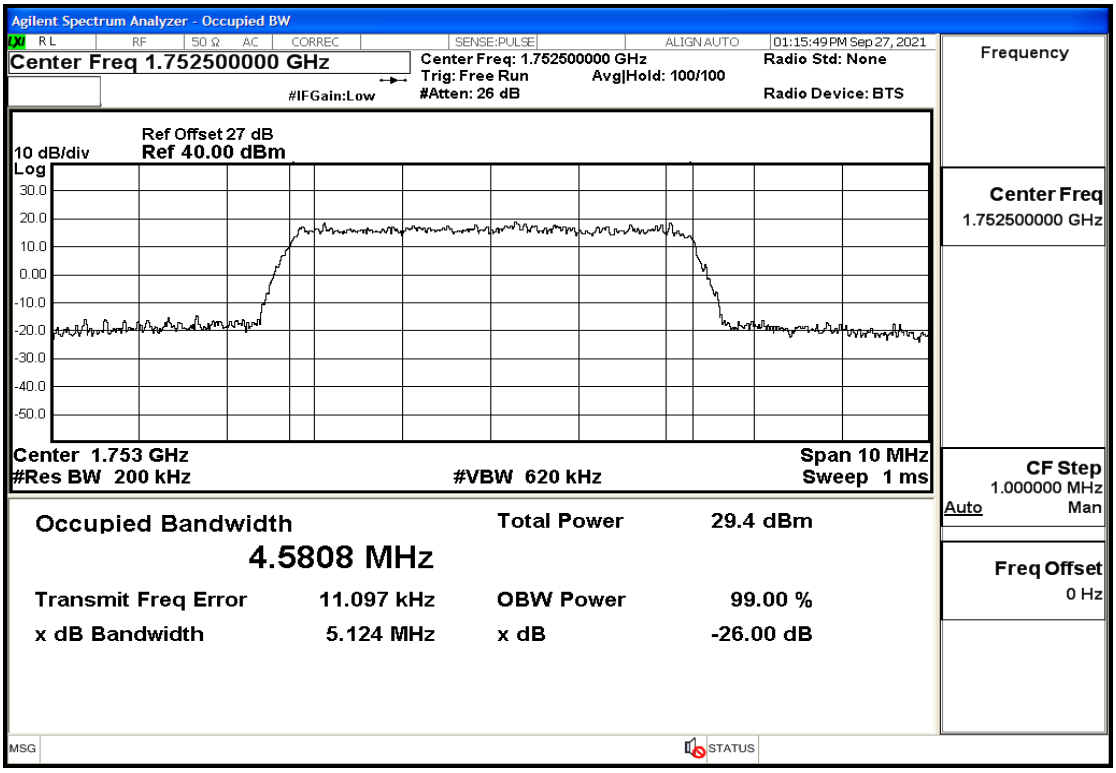
Band4-5-1732.5-QPSK-25#LOW@26dB and 99PCT Bandwidth



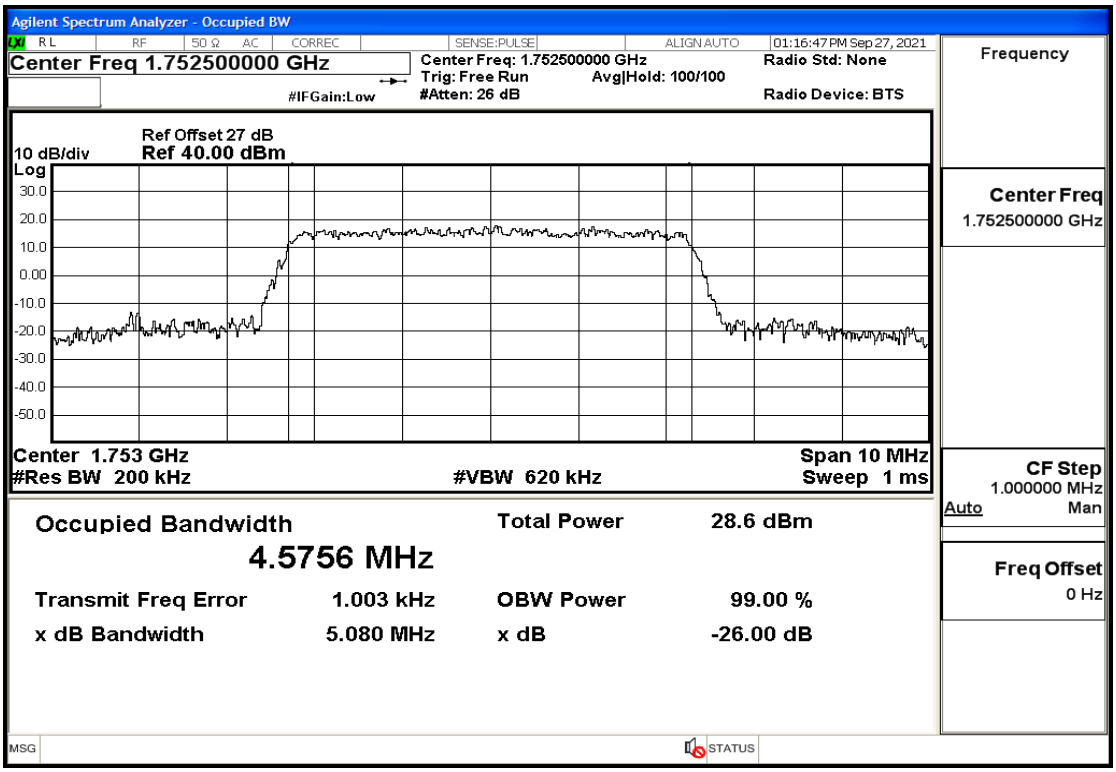
Band4-5-1732.5-16QAM-25#LOW@26dB and 99PCT Bandwidth



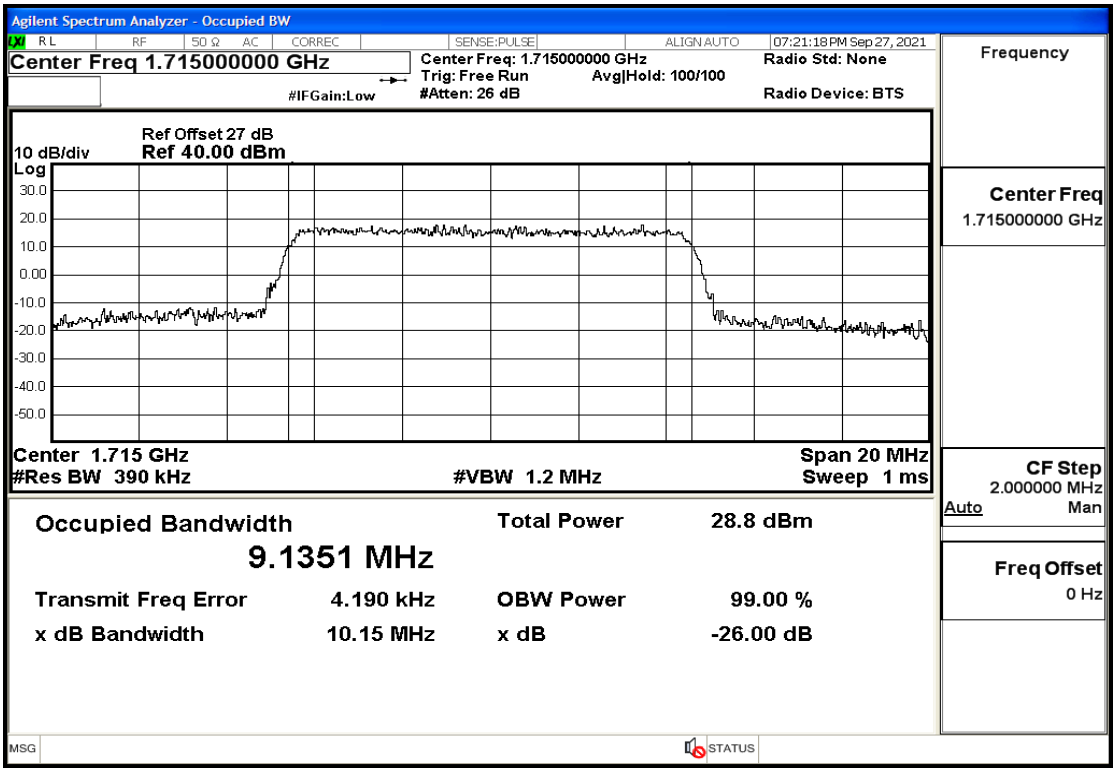
Band4-5-1752.5-QPSK-25#LOW@26dB and 99PCT Bandwidth



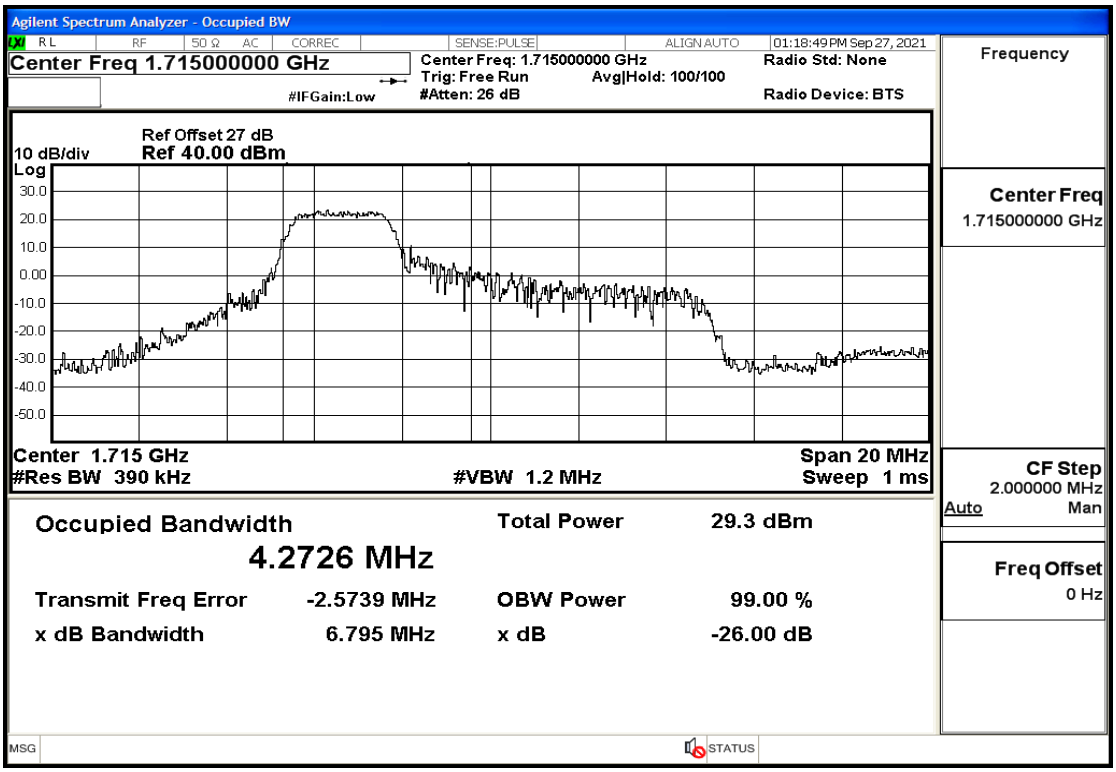
Band4-5-1752.5-16QAM-25#LOW@26dB and 99PCT Bandwidth



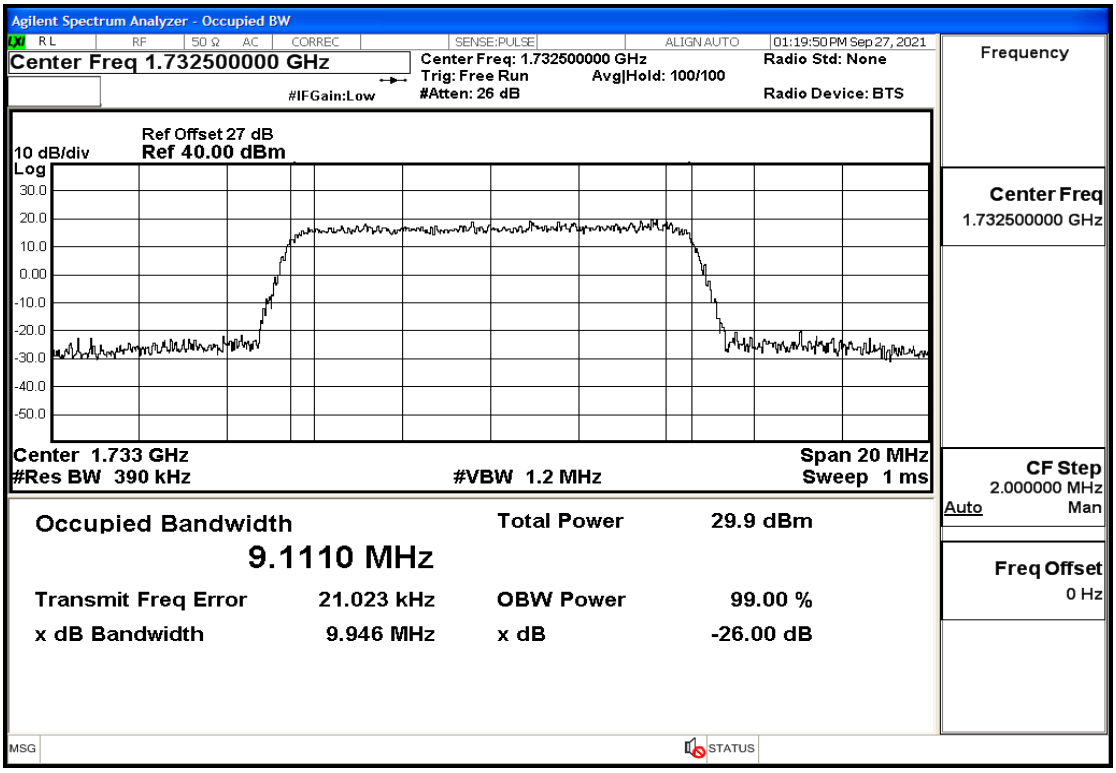
Band4-10-1715-QPSK-50#LOW@26dB and 99PCT Bandwidth



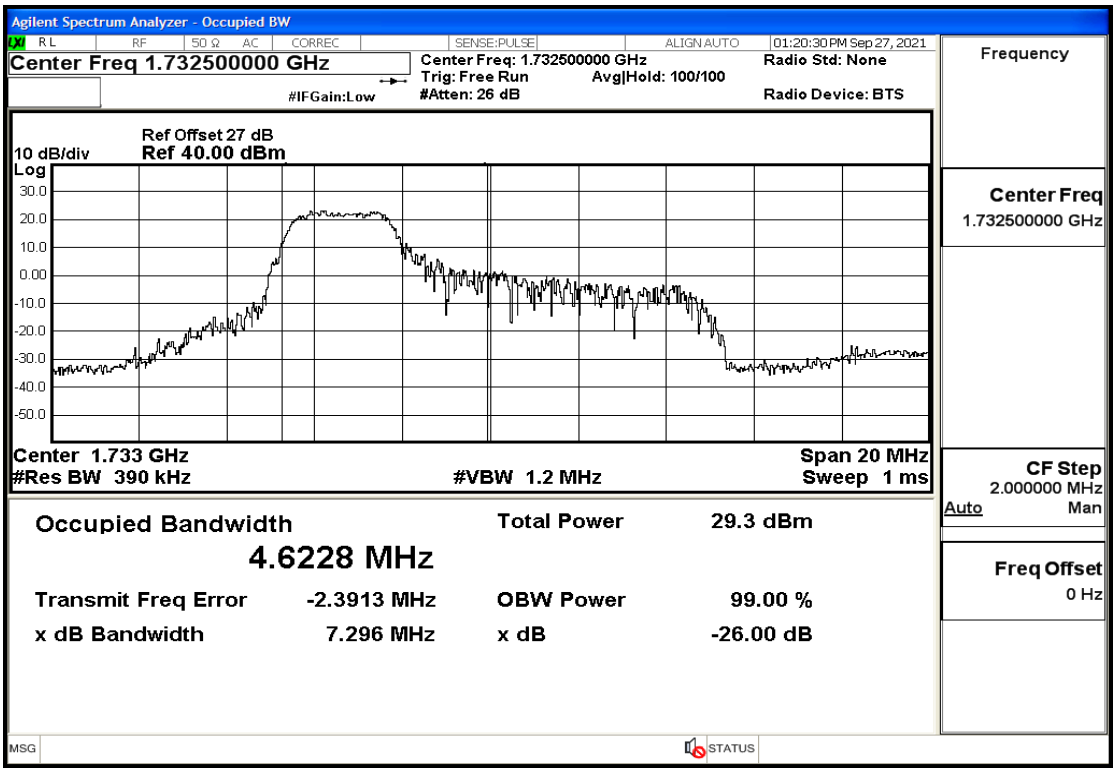
Band4-10-1715-16QAM-12#LOW@26dB and 99PCT Bandwidth



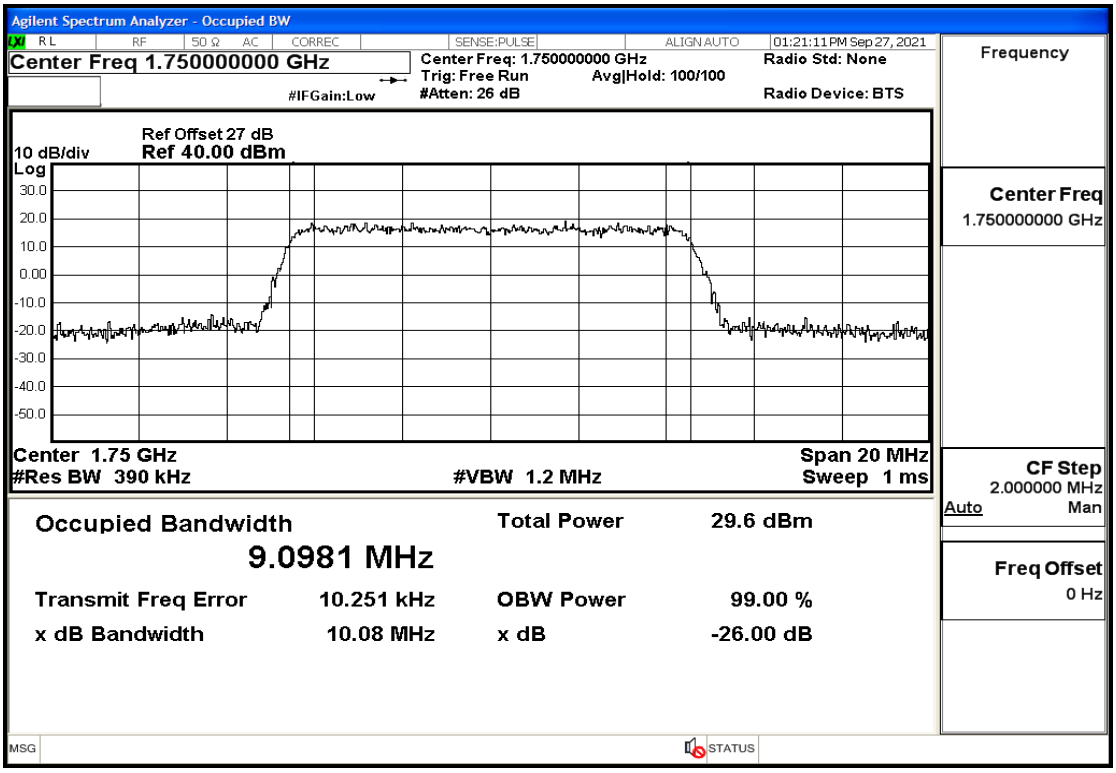
Band4-10-1732.5-QPSK-50#LOW@26dB and 99PCT Bandwidth



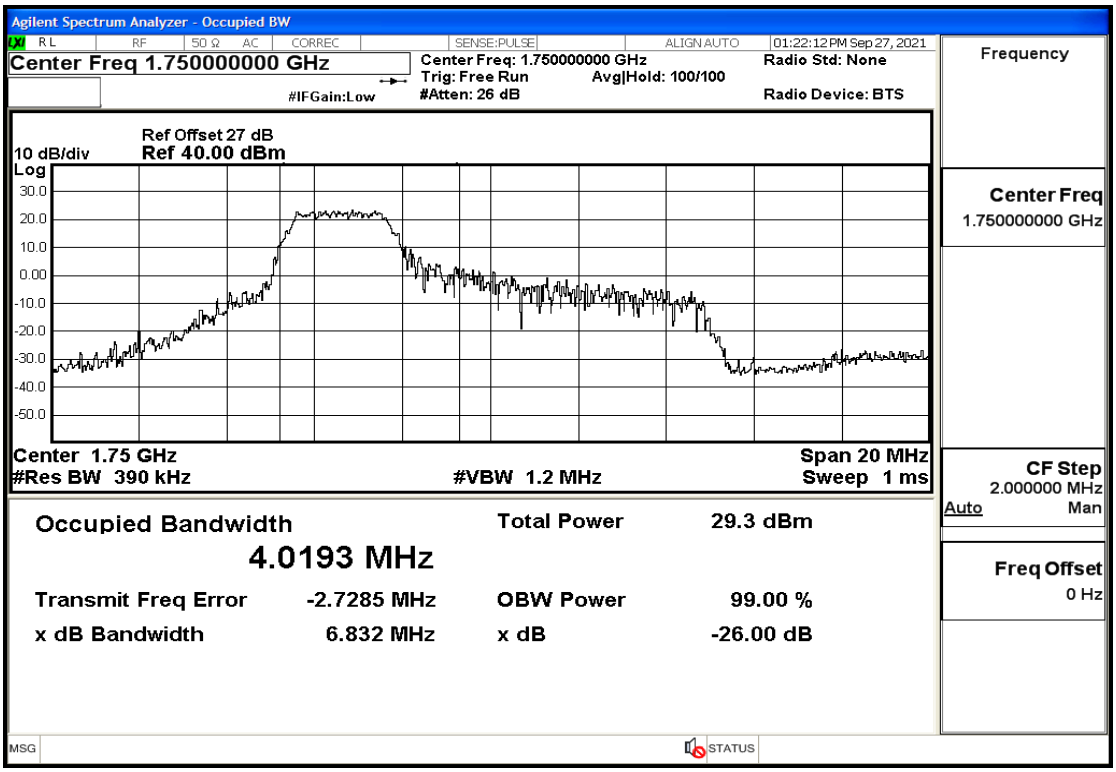
Band4-10-1732.5-16QAM-12#LOW@26dB and 99PCT Bandwidth



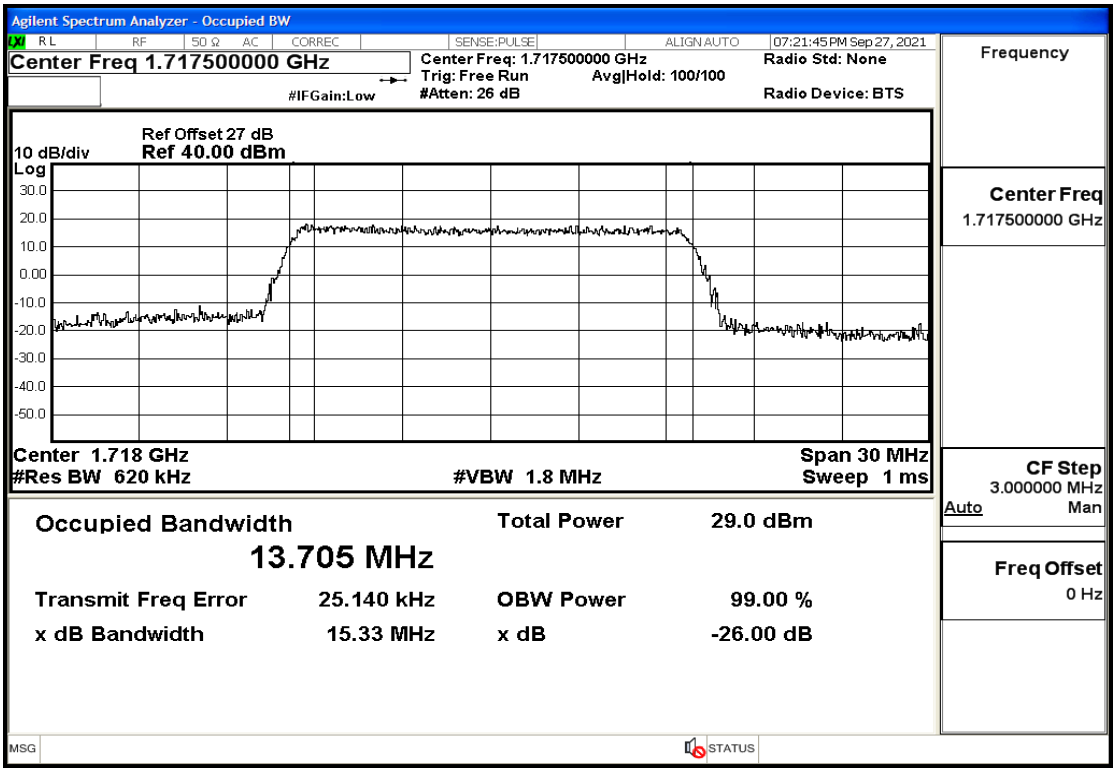
Band4-10-1750-QPSK-50#LOW@26dB and 99PCT Bandwidth



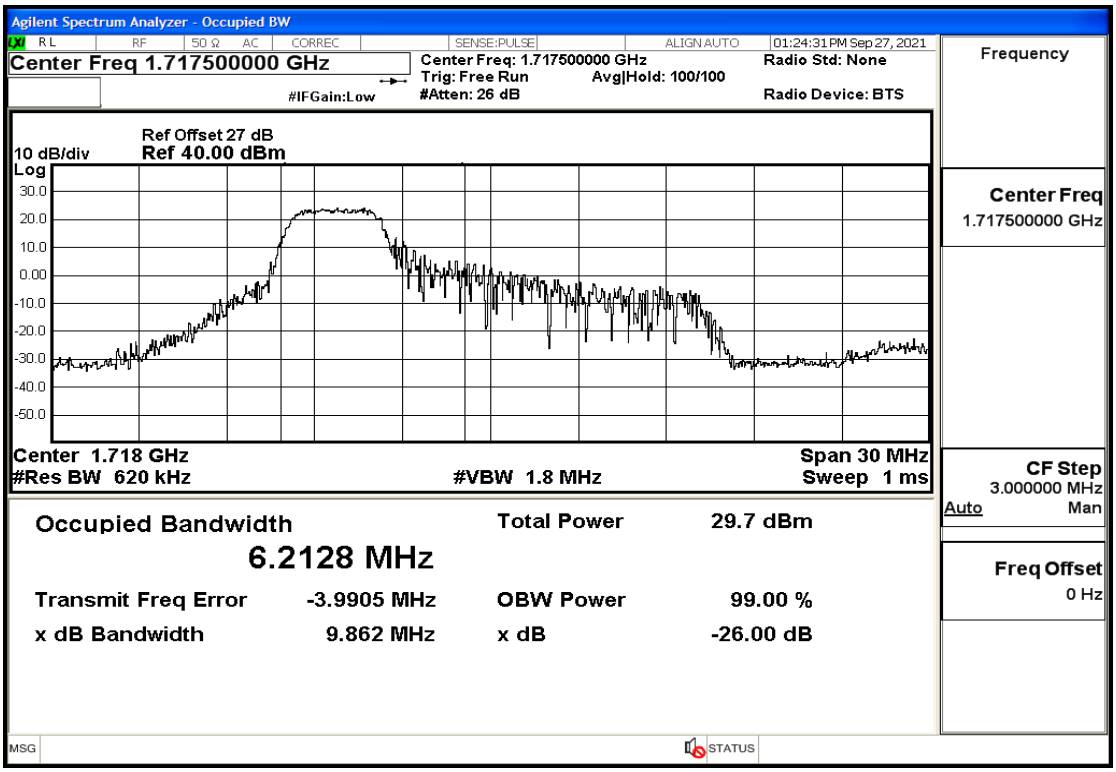
Band4-10-1750-16QAM-12#LOW@26dB and 99PCT Bandwidth



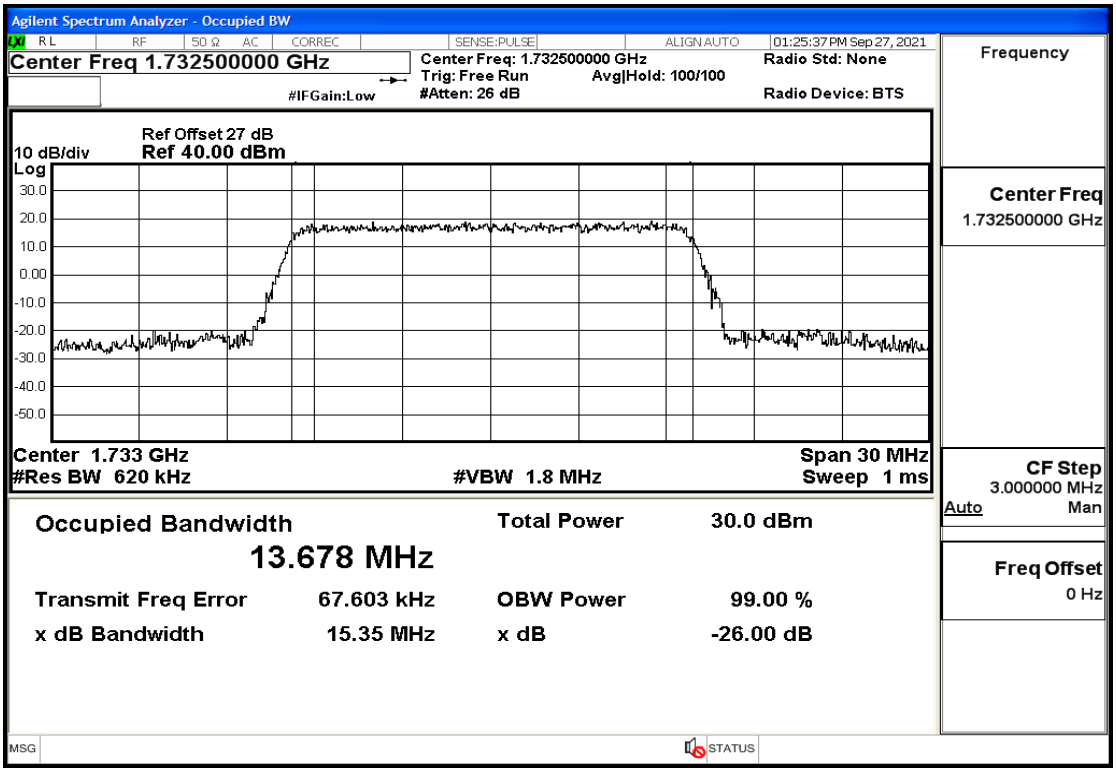
Band4-15-1717.5-QPSK-75#LOW@26dB and 99PCT Bandwidth



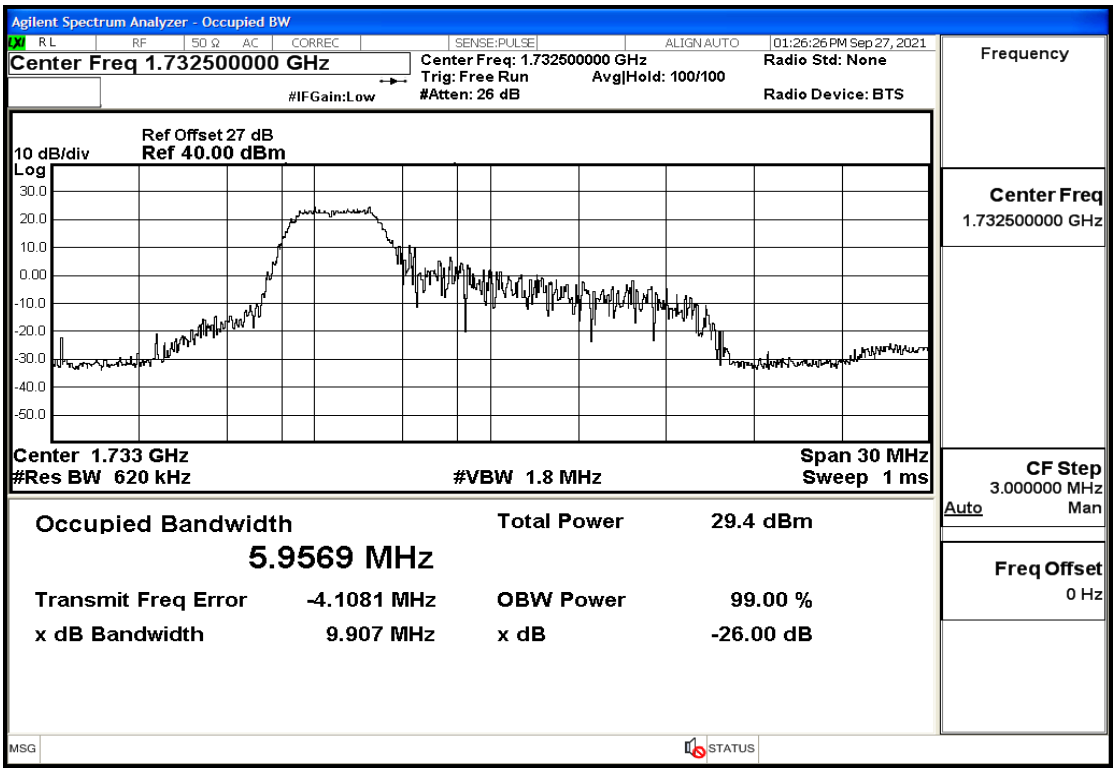
Band4-15-1717.5-16QAM-16#LOW@26dB and 99PCT Bandwidth



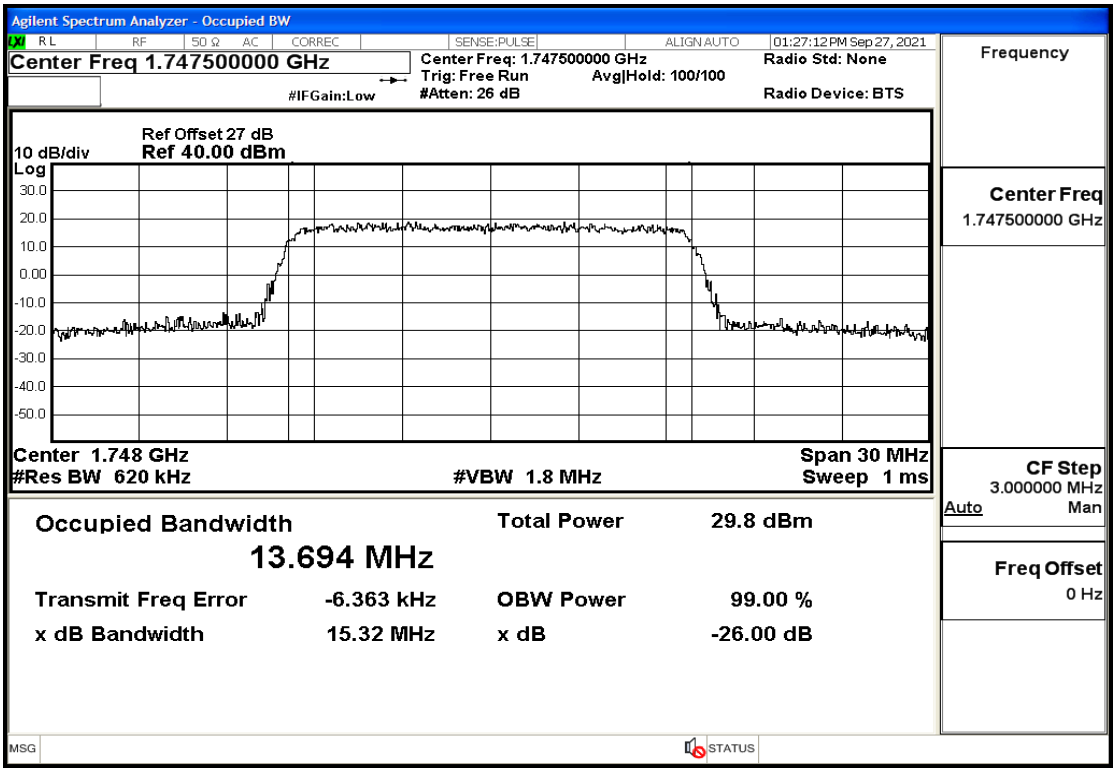
Band4-15-1732.5-QPSK-75#LOW@26dB and 99PCT Bandwidth



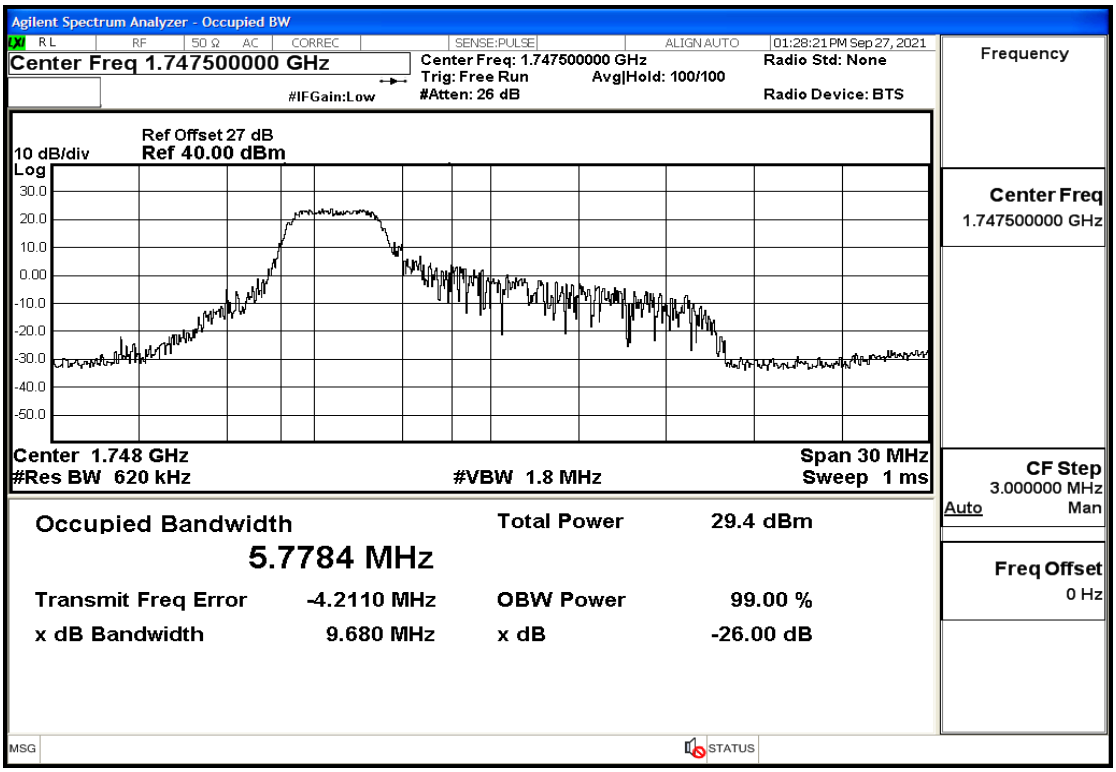
Band4-15-1732.5-16QAM-16#LOW@26dB and 99PCT Bandwidth



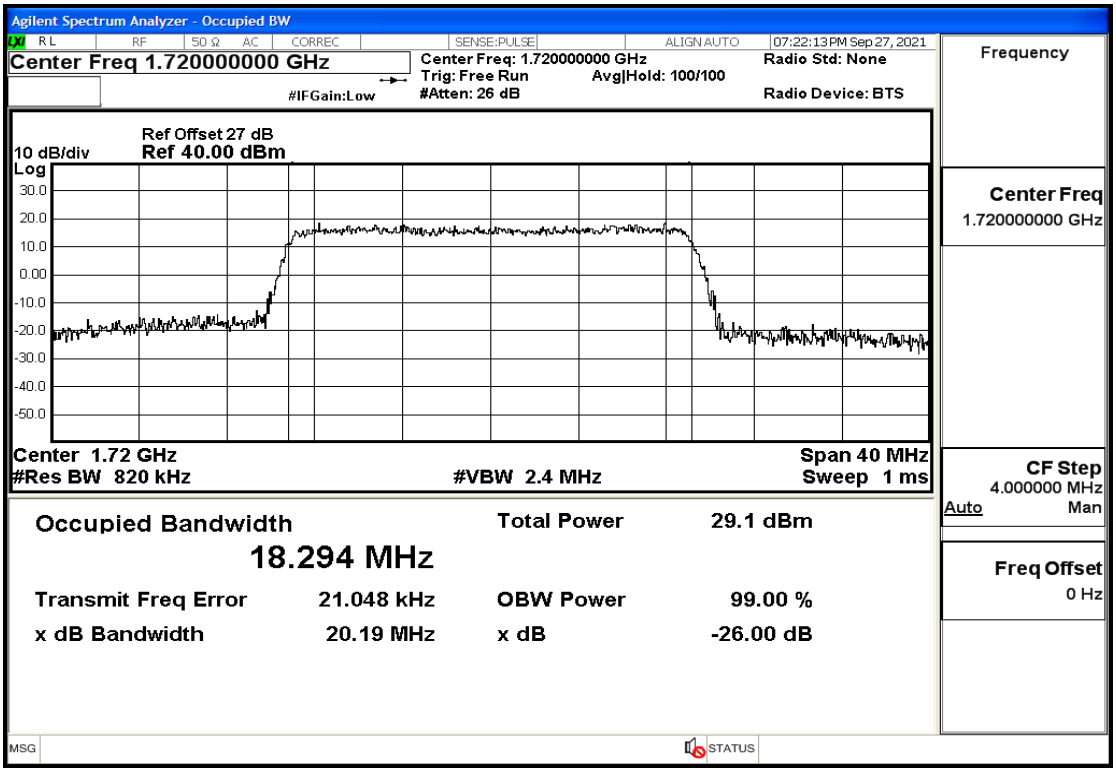
Band4-15-1747.5-QPSK-75#LOW@26dB and 99PCT Bandwidth



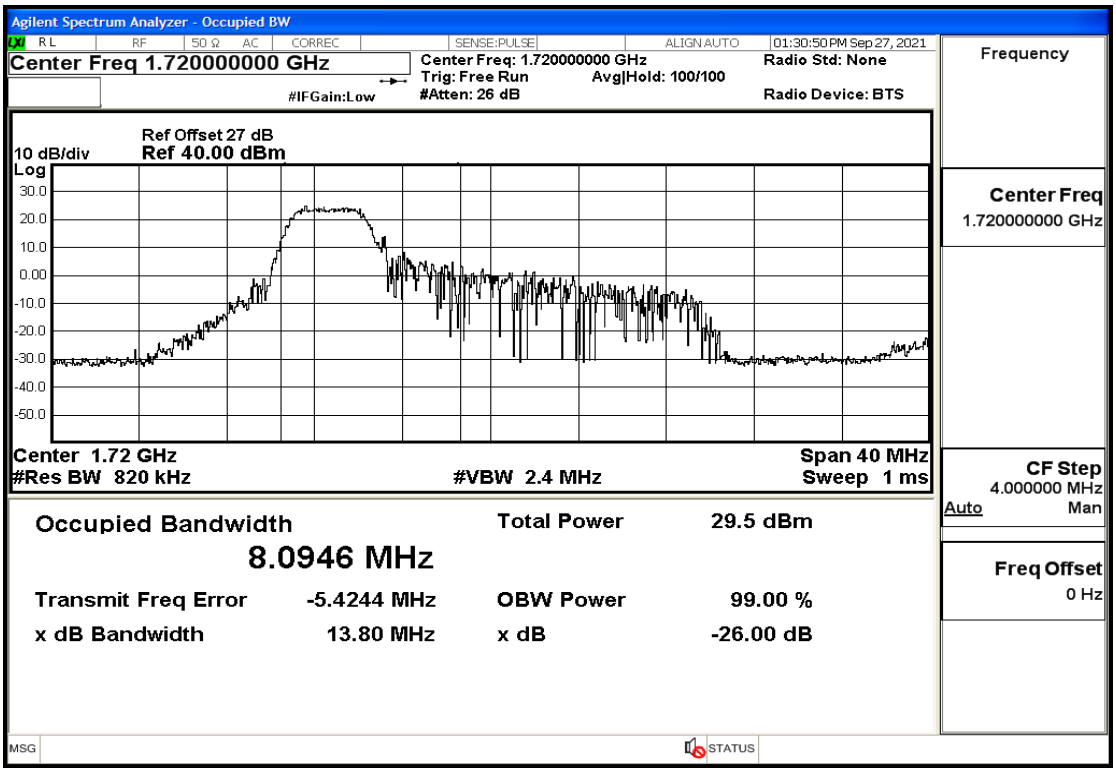
Band4-15-1747.5-16QAM-16#LOW@26dB and 99PCT Bandwidth



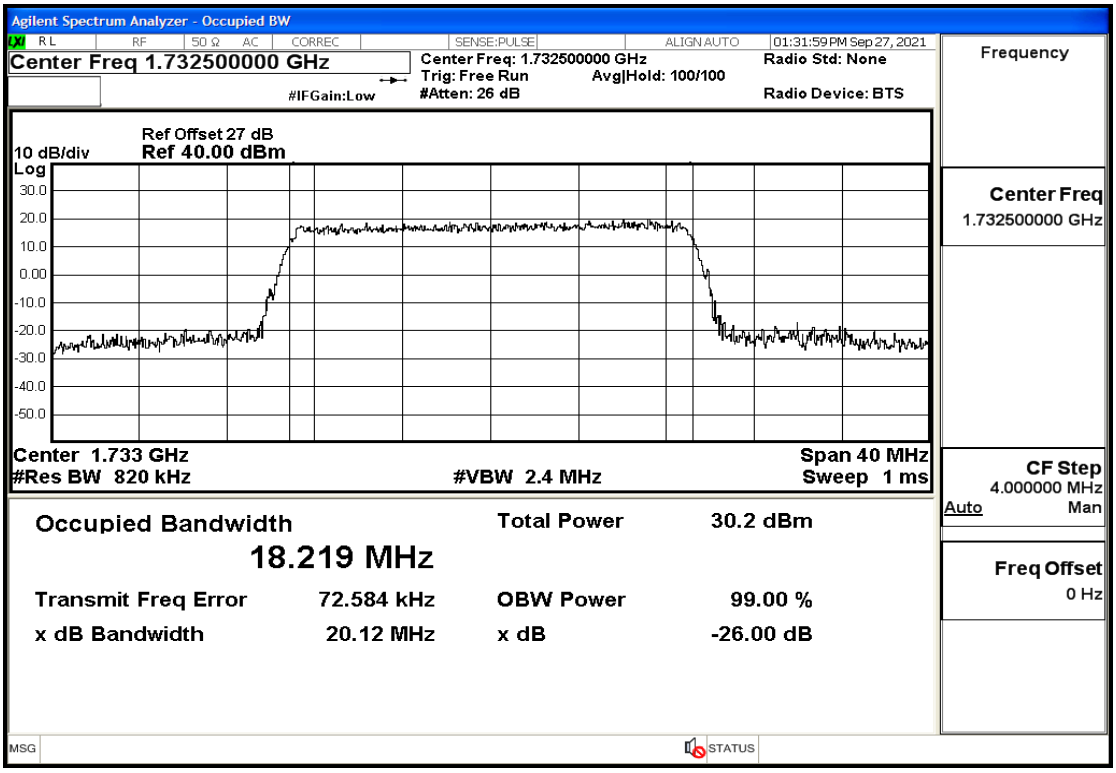
Band4-20-1720-QPSK-100#LOW@26dB and 99PCT Bandwidth



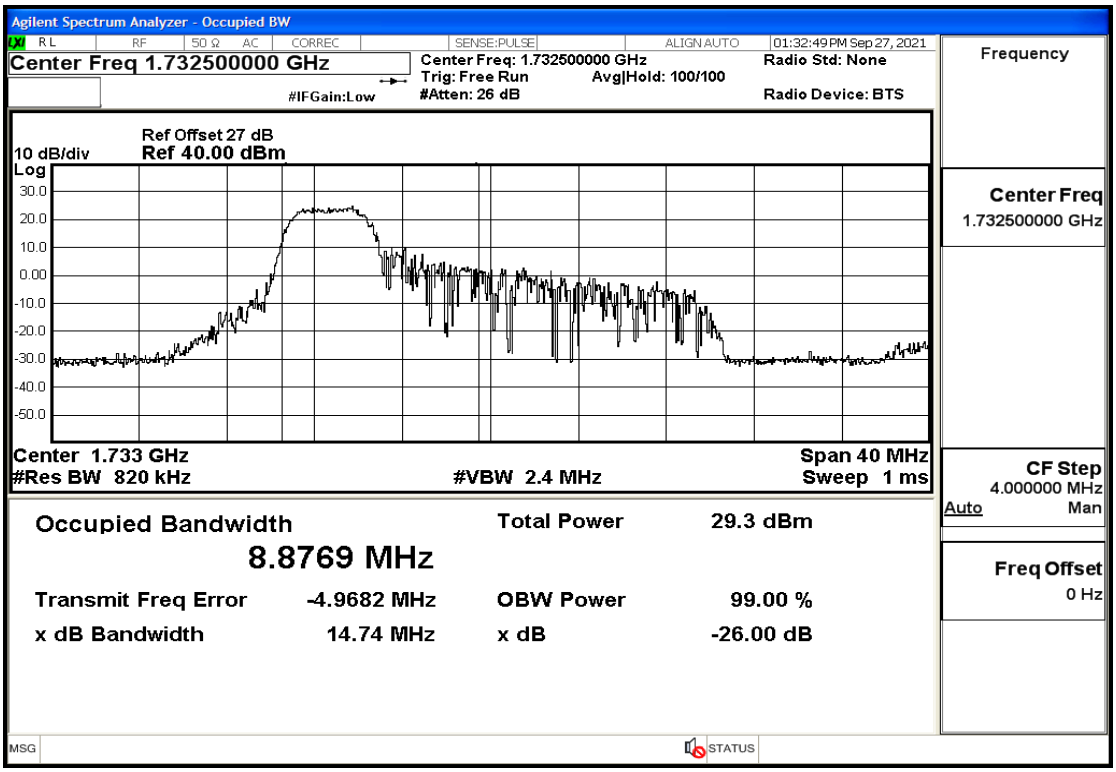
Band4-20-1720-16QAM-18#LOW@26dB and 99PCT Bandwidth



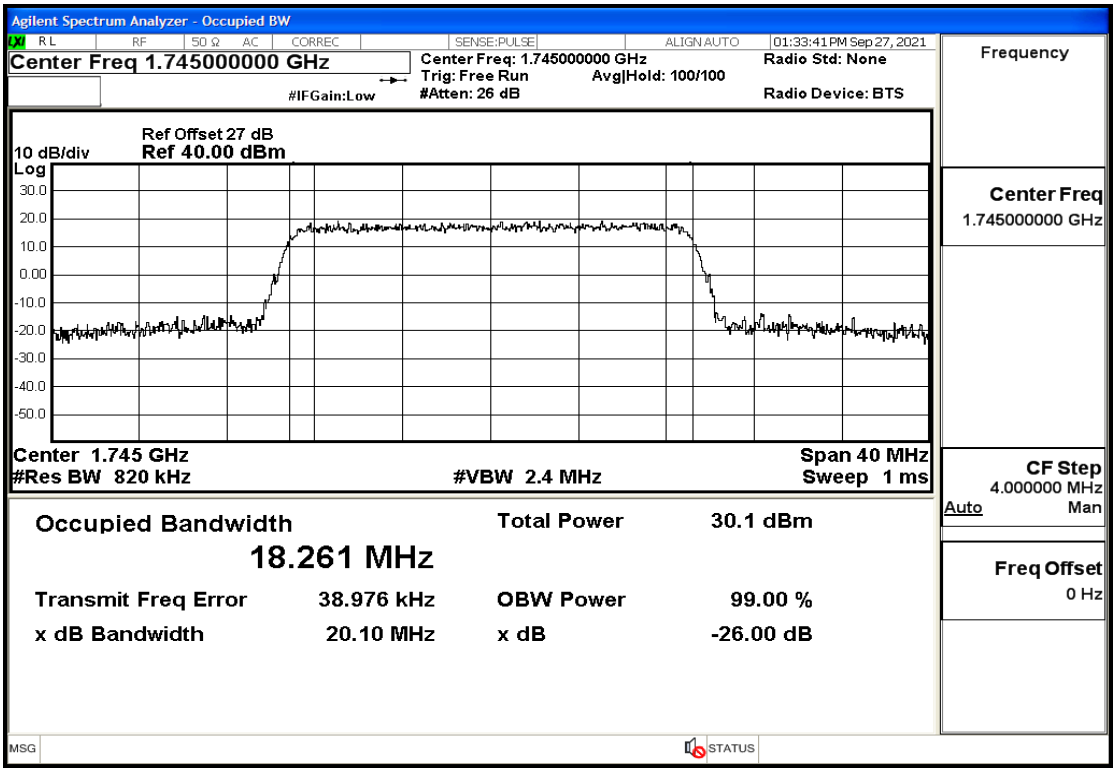
Band4-20-1732.5-QPSK-100#LOW@26dB and 99PCT Bandwidth



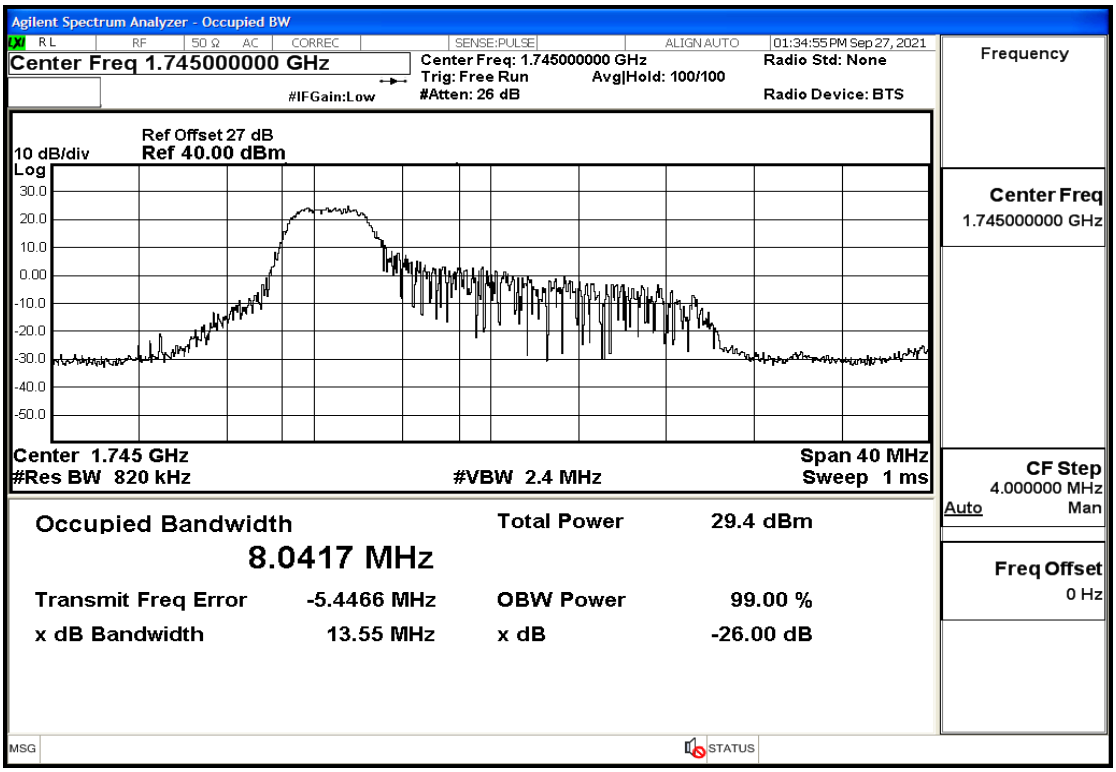
Band4-20-1732.5-16QAM-18#LOW@26dB and 99PCT Bandwidth



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



Band4-20-1745-16QAM-18#LOW@26dB and 99PCT Bandwidth



Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 5MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0568	PASS
40	Normal Voltage	0.0378	
30	Normal Voltage	0.0177	
20(Ref.)	Normal Voltage	0.0266	
10	Normal Voltage	0.0647	
0	Normal Voltage	0.0176	
-10	Normal Voltage	0.0417	
-20	Normal Voltage	0.0346	
-30	Normal Voltage	0.0165	
20	Maximum Voltage	0.0170	
20	Normal Voltage	0.0269	
20	Battery End Point	0.0659	

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	22.09	27.76	5.67	13	-0.9	21.19	30	Pass
Band4	1.4	1710.7	QPSK	3	LOW	23.14	27.76	4.62	13	-0.9	22.24	30	Pass
Band4	1.4	1710.7	QPSK	3	MID	23.11	27.75	4.64	13	-0.9	22.21	30	Pass
Band4	1.4	1710.7	QPSK	3	HIGH	23.1	27.75	4.65	13	-0.9	22.2	30	Pass
Band4	1.4	1710.7	QPSK	1	LOW	23.15	27.49	4.34	13	-0.9	22.25	30	Pass
Band4	1.4	1710.7	QPSK	1	MID	23.16	27.47	4.31	13	-0.9	22.26	30	Pass
Band4	1.4	1710.7	QPSK	1	HIGH	23.14	27.53	4.39	13	-0.9	22.24	30	Pass
Band4	1.4	1710.7	16QAM	6	LOW	21.43	28.01	6.58	13	-0.9	20.53	30	Pass
Band4	1.4	1710.7	16QAM	3	LOW	22.3	27.4	5.1	13	-0.9	21.4	30	Pass
Band4	1.4	1710.7	16QAM	3	MID	22.31	27.4	5.09	13	-0.9	21.41	30	Pass
Band4	1.4	1710.7	16QAM	3	HIGH	22.31	27.66	5.35	13	-0.9	21.41	30	Pass
Band4	1.4	1710.7	16QAM	1	LOW	22.91	27.41	4.5	13	-0.9	22.01	30	Pass
Band4	1.4	1710.7	16QAM	1	MID	22.94	27.43	4.49	13	-0.9	22.04	30	Pass
Band4	1.4	1710.7	16QAM	1	HIGH	22.93	27.5	4.57	13	-0.9	22.03	30	Pass
Band4	1.4	1732.5	QPSK	6	LOW	21.81	27.52	5.71	13	-0.9	20.91	30	Pass
Band4	1.4	1732.5	QPSK	3	LOW	22.9	28.07	5.17	13	-0.9	22	30	Pass
Band4	1.4	1732.5	QPSK	3	MID	22.89	28.11	5.22	13	-0.9	21.99	30	Pass
Band4	1.4	1732.5	QPSK	3	HIGH	22.91	28.13	5.22	13	-0.9	22.01	30	Pass
Band4	1.4	1732.5	QPSK	1	LOW	22.94	27.96	5.02	13	-0.9	22.04	30	Pass
Band4	1.4	1732.5	QPSK	1	MID	22.91	27.85	4.94	13	-0.9	22.01	30	Pass
Band4	1.4	1732.5	QPSK	1	HIGH	22.88	27.87	4.99	13	-0.9	21.98	30	Pass
Band4	1.4	1732.5	16QAM	6	LOW	21.2	27.79	6.59	13	-0.9	20.3	30	Pass
Band4	1.4	1732.5	16QAM	3	LOW	21.89	28.15	6.26	13	-0.9	20.99	30	Pass
Band4	1.4	1732.5	16QAM	3	MID	21.89	28.14	6.25	13	-0.9	20.99	30	Pass
Band4	1.4	1732.5	16QAM	3	HIGH	21.93	28.24	6.31	13	-0.9	21.03	30	Pass
Band4	1.4	1732.5	16QAM	1	LOW	22.71	27.51	4.8	13	-0.9	21.81	30	Pass
Band4	1.4	1732.5	16QAM	1	MID	22.56	27.25	4.69	13	-0.9	21.66	30	Pass
Band4	1.4	1732.5	16QAM	1	HIGH	22.63	27.3	4.67	13	-0.9	21.73	30	Pass
Band4	1.4	1754.3	QPSK	6	LOW	21.62	26.9	5.28	13	-0.9	20.72	30	Pass
Band4	1.4	1754.3	QPSK	3	LOW	22.79	26.81	4.02	13	-0.9	21.89	30	Pass
Band4	1.4	1754.3	QPSK	3	MID	22.78	26.91	4.13	13	-0.9	21.88	30	Pass
Band4	1.4	1754.3	QPSK	3	HIGH	22.88	26.89	4.01	13	-0.9	21.98	30	Pass
Band4	1.4	1754.3	QPSK	1	LOW	23.01	26.48	3.47	13	-0.9	22.11	30	Pass
Band4	1.4	1754.3	QPSK	1	MID	22.94	26.46	3.52	13	-0.9	22.04	30	Pass
Band4	1.4	1754.3	QPSK	1	HIGH	23.06	26.47	3.41	13	-0.9	22.16	30	Pass
Band4	1.4	1754.3	16QAM	6	LOW	21.13	27.09	5.96	13	-0.9	20.23	30	Pass
Band4	1.4	1754.3	16QAM	3	LOW	21.78	26.79	5.01	13	-0.9	20.88	30	Pass
Band4	1.4	1754.3	16QAM	3	MID	21.77	26.82	5.05	13	-0.9	20.87	30	Pass
Band4	1.4	1754.3	16QAM	3	HIGH	21.84	26.7	4.86	13	-0.9	20.94	30	Pass
Band4	1.4	1754.3	16QAM	1	LOW	22.07	26.25	4.18	13	-0.9	21.17	30	Pass

Band4	1.4	1754.3	16QAM	1	MID	22.1	26.21	4.11	13	-0.9	21.2	30	Pass
Band4	1.4	1754.3	16QAM	1	HIGH	22.07	26.21	4.14	13	-0.9	21.17	30	Pass
Band4	3	1711.5	QPSK	15	LOW	22.66	27.55	4.89	13	-0.9	21.76	30	Pass
Band4	3	1711.5	QPSK	8	LOW	22.14	27.33	5.19	13	-0.9	21.24	30	Pass
Band4	3	1711.5	QPSK	8	MID	22.13	27.5	5.37	13	-0.9	21.23	30	Pass
Band4	3	1711.5	QPSK	8	HIGH	22.13	27.58	5.45	13	-0.9	21.23	30	Pass
Band4	3	1711.5	QPSK	1	LOW	22.99	27.15	4.16	13	-0.9	22.09	30	Pass
Band4	3	1711.5	QPSK	1	MID	23.02	27.21	4.19	13	-0.9	22.12	30	Pass
Band4	3	1711.5	QPSK	1	HIGH	23	27.24	4.24	13	-0.9	22.1	30	Pass
Band4	3	1711.5	16QAM	15	LOW	21.2	28.08	6.88	13	-0.9	20.3	30	Pass
Band4	3	1711.5	16QAM	8	LOW	21.59	27.54	5.95	13	-0.9	20.69	30	Pass
Band4	3	1711.5	16QAM	8	MID	21.59	27.53	5.94	13	-0.9	20.69	30	Pass
Band4	3	1711.5	16QAM	8	HIGH	21.61	27.62	6.01	13	-0.9	20.71	30	Pass
Band4	3	1711.5	16QAM	1	LOW	22.58	27.52	4.94	13	-0.9	21.68	30	Pass
Band4	3	1711.5	16QAM	1	MID	22.6	27.59	4.99	13	-0.9	21.7	30	Pass
Band4	3	1711.5	16QAM	1	HIGH	22.59	27.66	5.07	13	-0.9	21.69	30	Pass
Band4	3	1732.5	QPSK	15	LOW	21.87	27.54	5.67	13	-0.9	20.97	30	Pass
Band4	3	1732.5	QPSK	8	LOW	21.84	27.8	5.96	13	-0.9	20.94	30	Pass
Band4	3	1732.5	QPSK	8	MID	21.84	27.85	6.01	13	-0.9	20.94	30	Pass
Band4	3	1732.5	QPSK	8	HIGH	21.77	27.76	5.99	13	-0.9	20.87	30	Pass
Band4	3	1732.5	QPSK	1	LOW	22.94	27.97	5.03	13	-0.9	22.04	30	Pass
Band4	3	1732.5	QPSK	1	MID	22.9	27.87	4.97	13	-0.9	22	30	Pass
Band4	3	1732.5	QPSK	1	HIGH	22.94	27.84	4.9	13	-0.9	22.04	30	Pass
Band4	3	1732.5	16QAM	15	LOW	20.97	27.59	6.62	13	-0.9	20.07	30	Pass
Band4	3	1732.5	16QAM	8	LOW	20.94	27.61	6.67	13	-0.9	20.04	30	Pass
Band4	3	1732.5	16QAM	8	MID	20.94	27.5	6.56	13	-0.9	20.04	30	Pass
Band4	3	1732.5	16QAM	8	HIGH	21.03	27.33	6.3	13	-0.9	20.13	30	Pass
Band4	3	1732.5	16QAM	1	LOW	22.71	28.05	5.34	13	-0.9	21.81	30	Pass
Band4	3	1732.5	16QAM	1	MID	22.66	27.91	5.25	13	-0.9	21.76	30	Pass
Band4	3	1732.5	16QAM	1	HIGH	22.69	27.43	4.74	13	-0.9	21.79	30	Pass
Band4	3	1753.5	QPSK	15	LOW	21.75	27.73	5.98	13	-0.9	20.85	30	Pass
Band4	3	1753.5	QPSK	8	LOW	21.75	26.88	5.13	13	-0.9	20.85	30	Pass
Band4	3	1753.5	QPSK	8	MID	21.75	26.8	5.05	13	-0.9	20.85	30	Pass
Band4	3	1753.5	QPSK	8	HIGH	21.74	26.82	5.08	13	-0.9	20.84	30	Pass
Band4	3	1753.5	QPSK	1	LOW	23.01	26.6	3.59	13	-0.9	22.11	30	Pass
Band4	3	1753.5	QPSK	1	MID	22.86	26.5	3.64	13	-0.9	21.96	30	Pass
Band4	3	1753.5	QPSK	1	HIGH	22.97	26.47	3.5	13	-0.9	22.07	30	Pass
Band4	3	1753.5	16QAM	15	LOW	20.95	27.13	6.18	13	-0.9	20.05	30	Pass
Band4	3	1753.5	16QAM	8	LOW	21.23	26.92	5.69	13	-0.9	20.33	30	Pass
Band4	3	1753.5	16QAM	8	MID	21.06	26.85	5.79	13	-0.9	20.16	30	Pass
Band4	3	1753.5	16QAM	8	HIGH	21.14	26.77	5.63	13	-0.9	20.24	30	Pass
Band4	3	1753.5	16QAM	1	LOW	22.26	26.36	4.1	13	-0.9	21.36	30	Pass
Band4	3	1753.5	16QAM	1	MID	22.26	26.32	4.06	13	-0.9	21.36	30	Pass
Band4	3	1753.5	16QAM	1	HIGH	22.05	26.2	4.15	13	-0.9	21.15	30	Pass
Band4	5	1712.5	QPSK	25	LOW	21.49	26.79	5.3	13	-0.9	20.59	30	Pass
Band4	5	1712.5	QPSK	12	LOW	22.06	27.3	5.24	13	-0.9	21.16	30	Pass

Band4	5	1712.5	QPSK	12	MID	22.05	27.5	5.45	13	-0.9	21.15	30	Pass
Band4	5	1712.5	QPSK	12	HIGH	22.05	27.44	5.39	13	-0.9	21.15	30	Pass
Band4	5	1712.5	QPSK	1	LOW	23.06	27.64	4.58	13	-0.9	22.16	30	Pass
Band4	5	1712.5	QPSK	1	MID	23.12	27.77	4.65	13	-0.9	22.22	30	Pass
Band4	5	1712.5	QPSK	1	HIGH	23.04	27.92	4.88	13	-0.9	22.14	30	Pass
Band4	5	1712.5	16QAM	25	LOW	21.33	28.08	6.75	13	-0.9	20.43	30	Pass
Band4	5	1712.5	16QAM	12	LOW	21.31	27.7	6.39	13	-0.9	20.41	30	Pass
Band4	5	1712.5	16QAM	12	MID	21.32	27.73	6.41	13	-0.9	20.42	30	Pass
Band4	5	1712.5	16QAM	12	HIGH	21.15	27.82	6.67	13	-0.9	20.25	30	Pass
Band4	5	1712.5	16QAM	1	LOW	21.53	26.78	5.25	13	-0.9	20.63	30	Pass
Band4	5	1712.5	16QAM	1	MID	21.57	26.88	5.31	13	-0.9	20.67	30	Pass
Band4	5	1712.5	16QAM	1	HIGH	21.38	26.9	5.52	13	-0.9	20.48	30	Pass
Band4	5	1732.5	QPSK	25	LOW	21.78	28.34	6.56	13	-0.9	20.88	30	Pass
Band4	5	1732.5	QPSK	12	LOW	21.81	28.02	6.21	13	-0.9	20.91	30	Pass
Band4	5	1732.5	QPSK	12	MID	21.81	28.25	6.44	13	-0.9	20.91	30	Pass
Band4	5	1732.5	QPSK	12	HIGH	21.83	28.14	6.31	13	-0.9	20.93	30	Pass
Band4	5	1732.5	QPSK	1	LOW	22.95	27.95	5	13	-0.9	22.05	30	Pass
Band4	5	1732.5	QPSK	1	MID	22.99	27.89	4.9	13	-0.9	22.09	30	Pass
Band4	5	1732.5	QPSK	1	HIGH	23.06	27.83	4.77	13	-0.9	22.16	30	Pass
Band4	5	1732.5	16QAM	25	LOW	20.93	28.19	7.26	13	-0.9	20.03	30	Pass
Band4	5	1732.5	16QAM	12	LOW	21.12	27.76	6.64	13	-0.9	20.22	30	Pass
Band4	5	1732.5	16QAM	12	MID	20.93	27.66	6.73	13	-0.9	20.03	30	Pass
Band4	5	1732.5	16QAM	12	HIGH	20.99	27.6	6.61	13	-0.9	20.09	30	Pass
Band4	5	1732.5	16QAM	1	LOW	22.15	27.79	5.64	13	-0.9	21.25	30	Pass
Band4	5	1732.5	16QAM	1	MID	22.24	27.72	5.48	13	-0.9	21.34	30	Pass
Band4	5	1732.5	16QAM	1	HIGH	22.19	27.6	5.41	13	-0.9	21.29	30	Pass
Band4	5	1752.5	QPSK	25	LOW	21.69	27.23	5.54	13	-0.9	20.79	30	Pass
Band4	5	1752.5	QPSK	12	LOW	21.79	26.73	4.94	13	-0.9	20.89	30	Pass
Band4	5	1752.5	QPSK	12	MID	21.8	26.82	5.02	13	-0.9	20.9	30	Pass
Band4	5	1752.5	QPSK	12	HIGH	21.72	26.57	4.85	13	-0.9	20.82	30	Pass
Band4	5	1752.5	QPSK	1	LOW	22.58	26.73	4.15	13	-0.9	21.68	30	Pass
Band4	5	1752.5	QPSK	1	MID	22.6	26.61	4.01	13	-0.9	21.7	30	Pass
Band4	5	1752.5	QPSK	1	HIGH	22.61	26.52	3.91	13	-0.9	21.71	30	Pass
Band4	5	1752.5	16QAM	25	LOW	20.7	27.32	6.62	13	-0.9	19.8	30	Pass
Band4	5	1752.5	16QAM	12	LOW	20.9	26.84	5.94	13	-0.9	20	30	Pass
Band4	5	1752.5	16QAM	12	MID	20.91	26.71	5.8	13	-0.9	20.01	30	Pass
Band4	5	1752.5	16QAM	12	HIGH	20.75	26.67	5.92	13	-0.9	19.85	30	Pass
Band4	5	1752.5	16QAM	1	LOW	21.31	26.63	5.32	13	-0.9	20.41	30	Pass
Band4	5	1752.5	16QAM	1	MID	21.44	26.57	5.13	13	-0.9	20.54	30	Pass
Band4	5	1752.5	16QAM	1	HIGH	21.51	26.45	4.94	13	-0.9	20.61	30	Pass
Band4	10	1715	QPSK	50	LOW	22.16	27.57	5.41	13	-0.9	21.26	30	Pass
Band4	10	1715	QPSK	25	LOW	22.08	27.68	5.6	13	-0.9	21.18	30	Pass
Band4	10	1715	QPSK	25	MID	22.06	27.66	5.6	13	-0.9	21.16	30	Pass
Band4	10	1715	QPSK	25	HIGH	21.91	27.92	6.01	13	-0.9	21.01	30	Pass
Band4	10	1715	QPSK	1	LOW	23	27.18	4.18	13	-0.9	22.1	30	Pass
Band4	10	1715	QPSK	1	MID	22.99	27.41	4.42	13	-0.9	22.09	30	Pass

Band4	10	1715	QPSK	1	HIGH	22.98	27.66	4.68	13	-0.9	22.08	30	Pass
Band4	10	1715	16QAM	12	LOW	22.22	27.58	5.36	13	-0.9	21.32	30	Pass
Band4	10	1715	16QAM	6	LOW	22.42	27.58	5.16	13	-0.9	21.52	30	Pass
Band4	10	1715	16QAM	6	MID	22.42	27.59	5.17	13	-0.9	21.52	30	Pass
Band4	10	1715	16QAM	6	HIGH	22.37	28.11	5.74	13	-0.9	21.47	30	Pass
Band4	10	1715	16QAM	1	LOW	22.33	27.5	5.17	13	-0.9	21.43	30	Pass
Band4	10	1715	16QAM	1	MID	22.38	27.72	5.34	13	-0.9	21.48	30	Pass
Band4	10	1715	16QAM	1	HIGH	22.34	28.11	5.77	13	-0.9	21.44	30	Pass
Band4	10	1732.5	QPSK	50	LOW	21.86	28.18	6.32	13	-0.9	20.96	30	Pass
Band4	10	1732.5	QPSK	25	LOW	21.82	28.03	6.21	13	-0.9	20.92	30	Pass
Band4	10	1732.5	QPSK	25	MID	21.82	28.02	6.2	13	-0.9	20.92	30	Pass
Band4	10	1732.5	QPSK	25	HIGH	21.9	27.99	6.09	13	-0.9	21	30	Pass
Band4	10	1732.5	QPSK	1	LOW	23.06	28.15	5.09	13	-0.9	22.16	30	Pass
Band4	10	1732.5	QPSK	1	MID	23.04	27.94	4.9	13	-0.9	22.14	30	Pass
Band4	10	1732.5	QPSK	1	HIGH	23.01	27.74	4.73	13	-0.9	22.11	30	Pass
Band4	10	1732.5	16QAM	12	LOW	22.01	28.56	6.55	13	-0.9	21.11	30	Pass
Band4	10	1732.5	16QAM	6	LOW	22.39	28.51	6.12	13	-0.9	21.49	30	Pass
Band4	10	1732.5	16QAM	6	MID	22.26	28.47	6.21	13	-0.9	21.36	30	Pass
Band4	10	1732.5	16QAM	6	HIGH	22.29	28.07	5.78	13	-0.9	21.39	30	Pass
Band4	10	1732.5	16QAM	1	LOW	22.2	27.59	5.39	13	-0.9	21.3	30	Pass
Band4	10	1732.5	16QAM	1	MID	22.08	26.94	4.86	13	-0.9	21.18	30	Pass
Band4	10	1732.5	16QAM	1	HIGH	22.06	27.64	5.58	13	-0.9	21.16	30	Pass
Band4	10	1750	QPSK	50	LOW	21.65	27.36	5.71	13	-0.9	20.75	30	Pass
Band4	10	1750	QPSK	25	LOW	21.68	27.26	5.58	13	-0.9	20.78	30	Pass
Band4	10	1750	QPSK	25	MID	21.68	27.17	5.49	13	-0.9	20.78	30	Pass
Band4	10	1750	QPSK	25	HIGH	21.69	27	5.31	13	-0.9	20.79	30	Pass
Band4	10	1750	QPSK	1	LOW	22.98	27.01	4.03	13	-0.9	22.08	30	Pass
Band4	10	1750	QPSK	1	MID	22.95	26.73	3.78	13	-0.9	22.05	30	Pass
Band4	10	1750	QPSK	1	HIGH	22.98	26.76	3.78	13	-0.9	22.08	30	Pass
Band4	10	1750	16QAM	12	LOW	21.99	27.2	5.21	13	-0.9	21.09	30	Pass
Band4	10	1750	16QAM	12	HIGH	21.94	26.78	4.84	13	-0.9	21.04	30	Pass
Band4	10	1750	16QAM	6	LOW	22.12	27.27	5.15	13	-0.9	21.22	30	Pass
Band4	10	1750	16QAM	6	MID	22.12	27.27	5.15	13	-0.9	21.22	30	Pass
Band4	10	1750	16QAM	6	HIGH	22.1	26.77	4.67	13	-0.9	21.2	30	Pass
Band4	10	1750	16QAM	1	LOW	21.56	26.34	4.78	13	-0.9	20.66	30	Pass
Band4	10	1750	16QAM	1	MID	21.7	26.21	4.51	13	-0.9	20.8	30	Pass
Band4	10	1750	16QAM	1	HIGH	21.56	26.15	4.59	13	-0.9	20.66	30	Pass
Band4	15	1717.5	QPSK	75	LOW	23.08	27.5	4.42	13	-0.9	22.18	30	Pass
Band4	15	1717.5	QPSK	38	LOW	23	27.5	4.5	13	-0.9	22.1	30	Pass
Band4	15	1717.5	QPSK	38	MID	23	27.49	4.49	13	-0.9	22.1	30	Pass
Band4	15	1717.5	QPSK	38	HIGH	22.95	28.17	5.22	13	-0.9	22.05	30	Pass
Band4	15	1717.5	QPSK	1	LOW	23.01	27.3	4.29	13	-0.9	22.11	30	Pass
Band4	15	1717.5	QPSK	1	MID	22.99	27.53	4.54	13	-0.9	22.09	30	Pass
Band4	15	1717.5	QPSK	1	HIGH	22.91	27.79	4.88	13	-0.9	22.01	30	Pass
Band4	15	1717.5	16QAM	16	LOW	22.35	27.87	5.52	13	-0.9	21.45	30	Pass
Band4	15	1717.5	16QAM	8	LOW	22.4	27.66	5.26	13	-0.9	21.5	30	Pass

Band4	15	1717.5	16QAM	8	MID	22.41	27.64	5.23	13	-0.9	21.51	30	Pass
Band4	15	1717.5	16QAM	8	HIGH	22.35	28.45	6.1	13	-0.9	21.45	30	Pass
Band4	15	1717.5	16QAM	1	LOW	22.39	27.64	5.25	13	-0.9	21.49	30	Pass
Band4	15	1717.5	16QAM	1	MID	22.29	27.95	5.66	13	-0.9	21.39	30	Pass
Band4	15	1717.5	16QAM	1	HIGH	22.34	28.35	6.01	13	-0.9	21.44	30	Pass
Band4	15	1732.5	QPSK	75	LOW	21.88	28.6	6.72	13	-0.9	20.98	30	Pass
Band4	15	1732.5	QPSK	38	LOW	21.88	28.62	6.74	13	-0.9	20.98	30	Pass
Band4	15	1732.5	QPSK	38	MID	21.88	28.63	6.75	13	-0.9	20.98	30	Pass
Band4	15	1732.5	QPSK	38	HIGH	21.88	28.6	6.72	13	-0.9	20.98	30	Pass
Band4	15	1732.5	QPSK	1	LOW	23.16	28.27	5.11	13	-0.9	22.26	30	Pass
Band4	15	1732.5	QPSK	1	MID	23.04	27.96	4.92	13	-0.9	22.14	30	Pass
Band4	15	1732.5	QPSK	1	HIGH	23.11	27.61	4.5	13	-0.9	22.21	30	Pass
Band4	15	1732.5	16QAM	16	LOW	22.11	28.35	6.24	13	-0.9	21.21	30	Pass
Band4	15	1732.5	16QAM	8	LOW	22.2	28.29	6.09	13	-0.9	21.3	30	Pass
Band4	15	1732.5	16QAM	8	MID	22.2	28.33	6.13	13	-0.9	21.3	30	Pass
Band4	15	1732.5	16QAM	8	HIGH	22.07	27.73	5.66	13	-0.9	21.17	30	Pass
Band4	15	1732.5	16QAM	1	LOW	22.16	28.24	6.08	13	-0.9	21.26	30	Pass
Band4	15	1732.5	16QAM	1	MID	22.09	26.95	4.86	13	-0.9	21.19	30	Pass
Band4	15	1732.5	16QAM	1	HIGH	22.12	27.19	5.07	13	-0.9	21.22	30	Pass
Band4	15	1747.5	QPSK	75	LOW	21.75	27.83	6.08	13	-0.9	20.85	30	Pass
Band4	15	1747.5	QPSK	38	LOW	21.76	27.69	5.93	13	-0.9	20.86	30	Pass
Band4	15	1747.5	QPSK	38	MID	21.77	27.85	6.08	13	-0.9	20.87	30	Pass
Band4	15	1747.5	QPSK	38	HIGH	21.78	27.87	6.09	13	-0.9	20.88	30	Pass
Band4	15	1747.5	QPSK	1	LOW	22.88	27.46	4.58	13	-0.9	21.98	30	Pass
Band4	15	1747.5	QPSK	1	MID	22.86	26.74	3.88	13	-0.9	21.96	30	Pass
Band4	15	1747.5	QPSK	1	HIGH	22.94	26.83	3.89	13	-0.9	22.04	30	Pass
Band4	15	1747.5	16QAM	16	LOW	21.92	27.72	5.8	13	-0.9	21.02	30	Pass
Band4	15	1747.5	16QAM	16	HIGH	21.96	27	5.04	13	-0.9	21.06	30	Pass
Band4	15	1747.5	16QAM	8	LOW	21.87	27.42	5.55	13	-0.9	20.97	30	Pass
Band4	15	1747.5	16QAM	8	MID	21.87	27.4	5.53	13	-0.9	20.97	30	Pass
Band4	15	1747.5	16QAM	8	HIGH	21.89	26.73	4.84	13	-0.9	20.99	30	Pass
Band4	15	1747.5	16QAM	1	LOW	22.52	27.48	4.96	13	-0.9	21.62	30	Pass
Band4	15	1747.5	16QAM	1	MID	22.38	26.6	4.22	13	-0.9	21.48	30	Pass
Band4	15	1747.5	16QAM	1	HIGH	22.3	27.23	4.93	13	-0.9	21.4	30	Pass
Band4	20	1720	QPSK	100	LOW	22.34	28.28	5.94	13	-0.9	21.44	30	Pass
Band4	20	1720	QPSK	50	LOW	22.01	27.89	5.88	13	-0.9	21.11	30	Pass
Band4	20	1720	QPSK	50	MID	22	27.9	5.9	13	-0.9	21.1	30	Pass
Band4	20	1720	QPSK	50	HIGH	22	28.3	6.3	13	-0.9	21.1	30	Pass
Band4	20	1720	QPSK	1	LOW	23.22	27.54	4.32	13	-0.9	22.32	30	Pass
Band4	20	1720	QPSK	1	MID	23.11	27.91	4.8	13	-0.9	22.21	30	Pass
Band4	20	1720	QPSK	1	HIGH	23.08	28.14	5.06	13	-0.9	22.18	30	Pass
Band4	20	1720	16QAM	18	LOW	22.06	27.82	5.76	13	-0.9	21.16	30	Pass
Band4	20	1720	16QAM	9	LOW	22.34	27.63	5.29	13	-0.9	21.44	30	Pass
Band4	20	1720	16QAM	9	MID	22.35	27.61	5.26	13	-0.9	21.45	30	Pass
Band4	20	1720	16QAM	9	HIGH	22.19	28.41	6.22	13	-0.9	21.29	30	Pass
Band4	20	1720	16QAM	1	LOW	22.36	28.23	5.87	13	-0.9	21.46	30	Pass

Band4	20	1720	16QAM	1	MID	22.22	27.68	5.46	13	-0.9	21.32	30	Pass
Band4	20	1720	16QAM	1	HIGH	22.15	28.73	6.58	13	-0.9	21.25	30	Pass
Band4	20	1732.5	QPSK	100	LOW	21.88	28.31	6.43	13	-0.9	20.98	30	Pass
Band4	20	1732.5	QPSK	50	LOW	21.87	28.18	6.31	13	-0.9	20.97	30	Pass
Band4	20	1732.5	QPSK	50	MID	21.87	28.14	6.27	13	-0.9	20.97	30	Pass
Band4	20	1732.5	QPSK	50	HIGH	21.79	27.84	6.05	13	-0.9	20.89	30	Pass
Band4	20	1732.5	QPSK	1	LOW	23.14	29.12	5.98	13	-0.9	22.24	30	Pass
Band4	20	1732.5	QPSK	1	MID	23.09	27.79	4.7	13	-0.9	22.19	30	Pass
Band4	20	1732.5	QPSK	1	HIGH	23.09	27.96	4.87	13	-0.9	22.19	30	Pass
Band4	20	1732.5	16QAM	18	LOW	21.95	28.83	6.88	13	-0.9	21.05	30	Pass
Band4	20	1732.5	16QAM	9	LOW	22.18	28.75	6.57	13	-0.9	21.28	30	Pass
Band4	20	1732.5	16QAM	9	MID	22.17	28.71	6.54	13	-0.9	21.27	30	Pass
Band4	20	1732.5	16QAM	9	HIGH	21.96	27.89	5.93	13	-0.9	21.06	30	Pass
Band4	20	1732.5	16QAM	1	LOW	22.23	28.3	6.07	13	-0.9	21.33	30	Pass
Band4	20	1732.5	16QAM	1	MID	22.11	28.18	6.07	13	-0.9	21.21	30	Pass
Band4	20	1732.5	16QAM	1	HIGH	22.05	27.61	5.56	13	-0.9	21.15	30	Pass
Band4	20	1745	QPSK	100	LOW	21.67	27.91	6.24	13	-0.9	20.77	30	Pass
Band4	20	1745	QPSK	50	LOW	21.68	27.59	5.91	13	-0.9	20.78	30	Pass
Band4	20	1745	QPSK	50	MID	21.68	27.58	5.9	13	-0.9	20.78	30	Pass
Band4	20	1745	QPSK	50	HIGH	21.85	27.14	5.29	13	-0.9	20.95	30	Pass
Band4	20	1745	QPSK	1	LOW	22.85	28.08	5.23	13	-0.9	21.95	30	Pass
Band4	20	1745	QPSK	1	MID	22.94	27.11	4.17	13	-0.9	22.04	30	Pass
Band4	20	1745	QPSK	1	HIGH	22.88	27.2	4.32	13	-0.9	21.98	30	Pass
Band4	20	1745	16QAM	18	LOW	22.06	27.91	5.85	13	-0.9	21.16	30	Pass
Band4	20	1745	16QAM	18	HIGH	22.05	26.86	4.81	13	-0.9	21.15	30	Pass
Band4	20	1745	16QAM	9	LOW	22.17	28.11	5.94	13	-0.9	21.27	30	Pass
Band4	20	1745	16QAM	9	MID	22.17	28.06	5.89	13	-0.9	21.27	30	Pass
Band4	20	1745	16QAM	9	HIGH	22.04	26.91	4.87	13	-0.9	21.14	30	Pass
Band4	20	1745	16QAM	1	LOW	22.75	28.18	5.43	13	-0.9	21.85	30	Pass
Band4	20	1745	16QAM	1	MID	22.67	27.14	4.47	13	-0.9	21.77	30	Pass
Band4	20	1745	16QAM	1	HIGH	22.68	27.65	4.97	13	-0.9	21.78	30	Pass