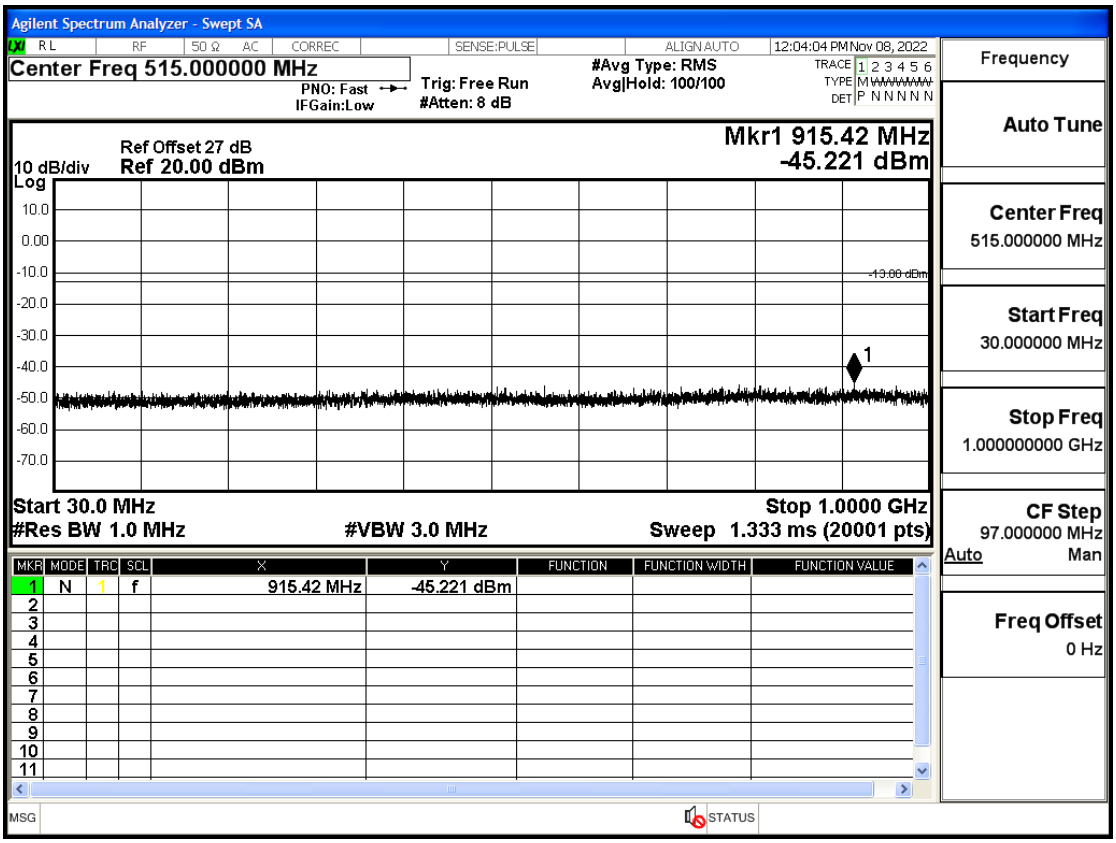
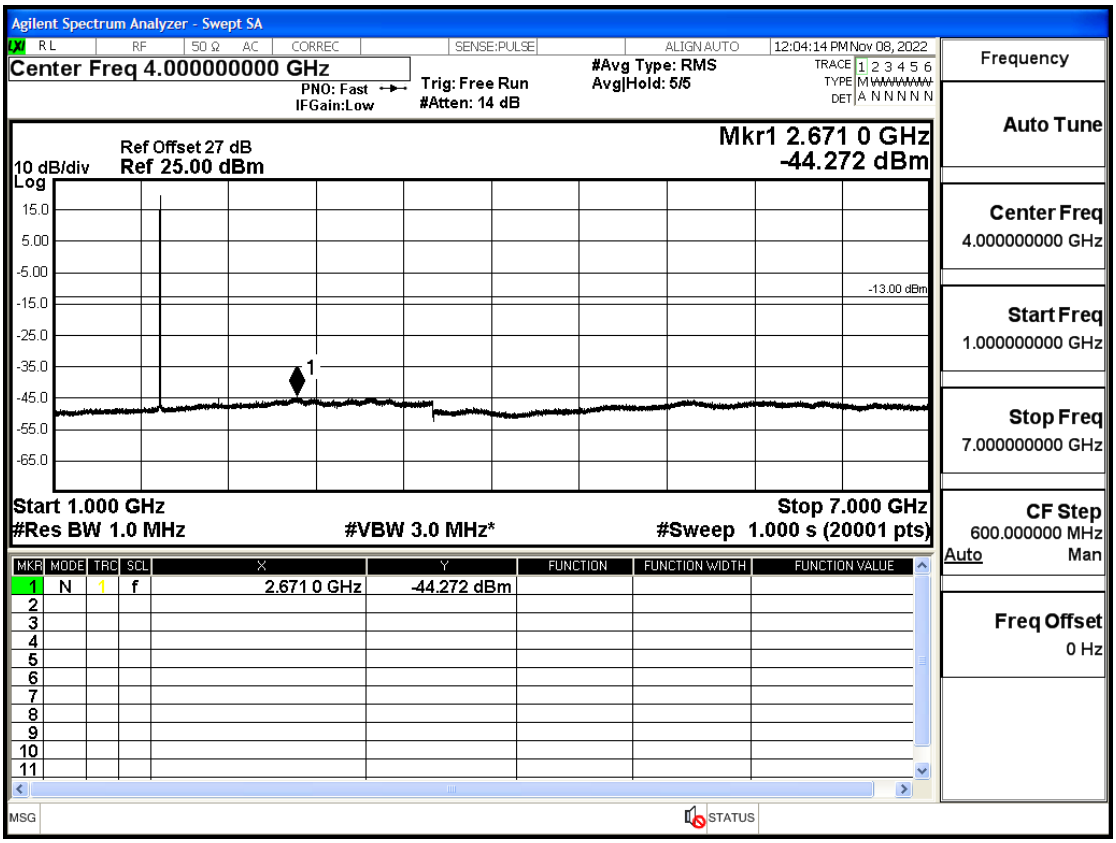
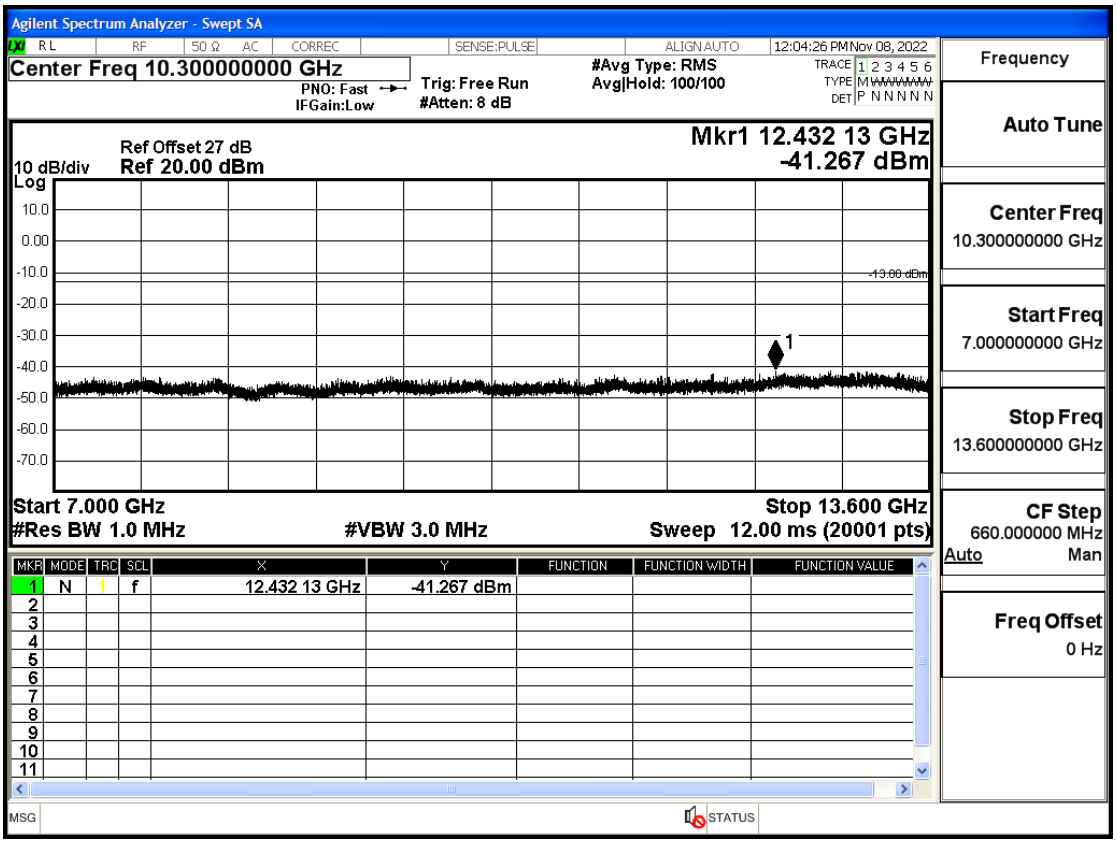
OB4-1.4-1732.5-Q16-6#LOW@30mHz-1GHz@Pass



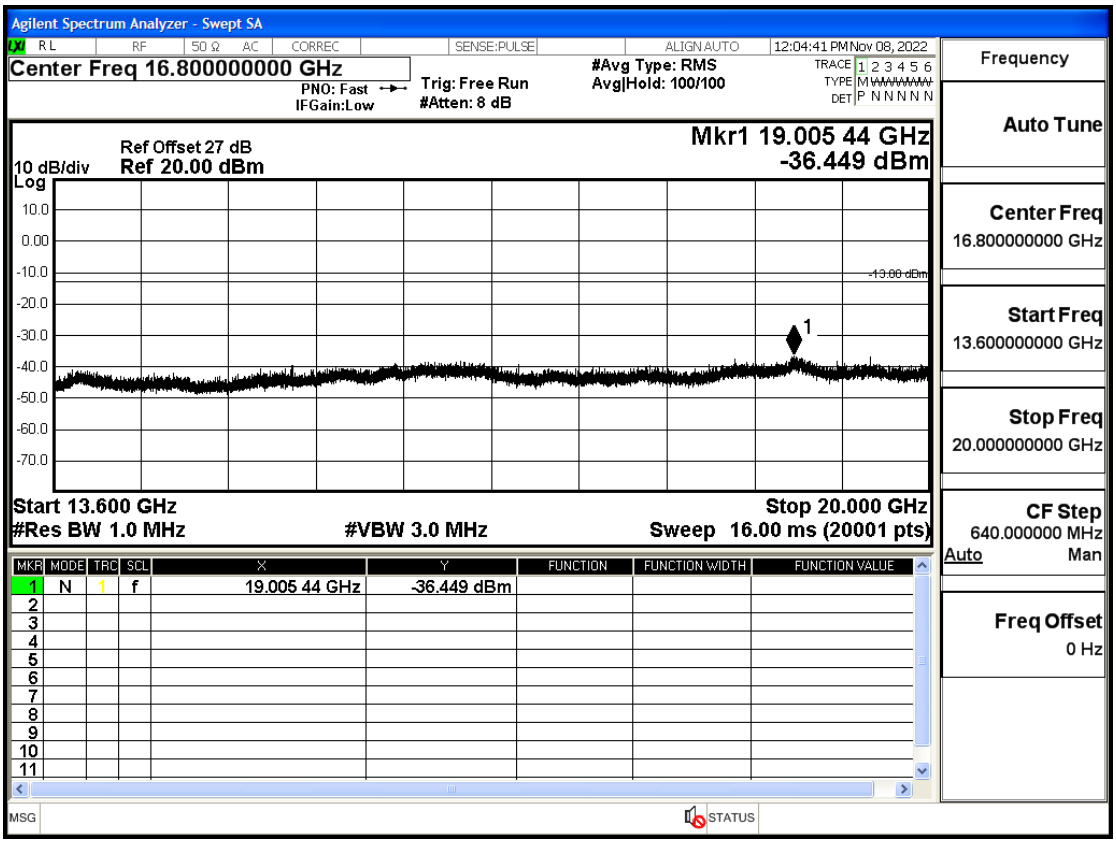
OB4-1.4-1732.5-Q16-6#LOW@1GHz-7GHz@Pass



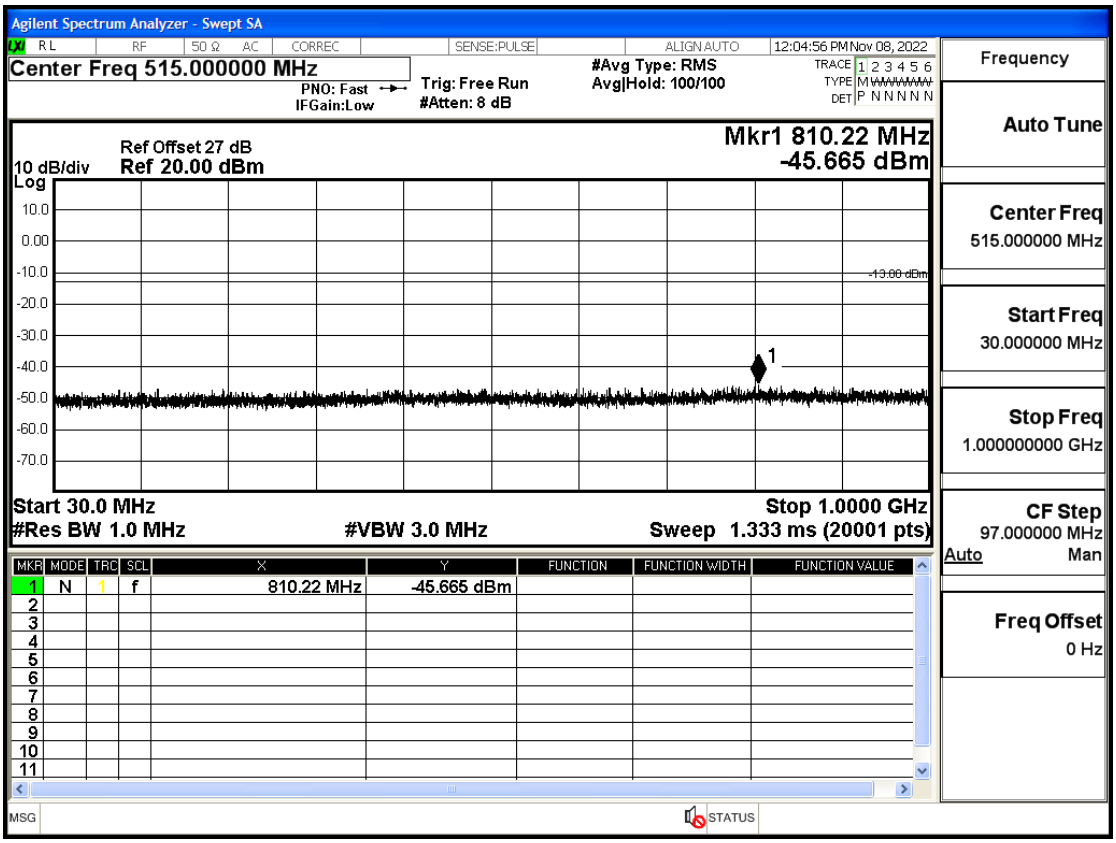
OB4-1.4-1732.5-Q16-6#LOW@7GHz-13.6GHz@Pass



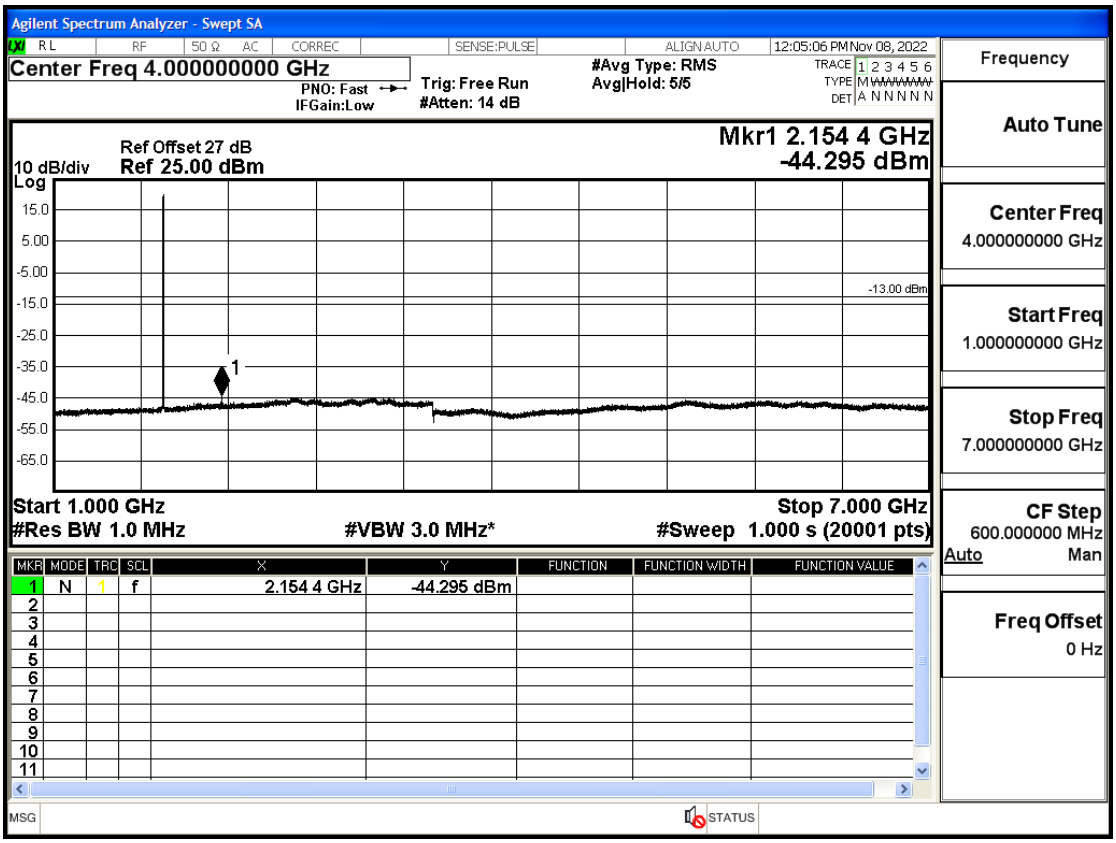
OB4-1.4-1732.5-Q16-6#LOW@13.6GHz-20GHz@Pass



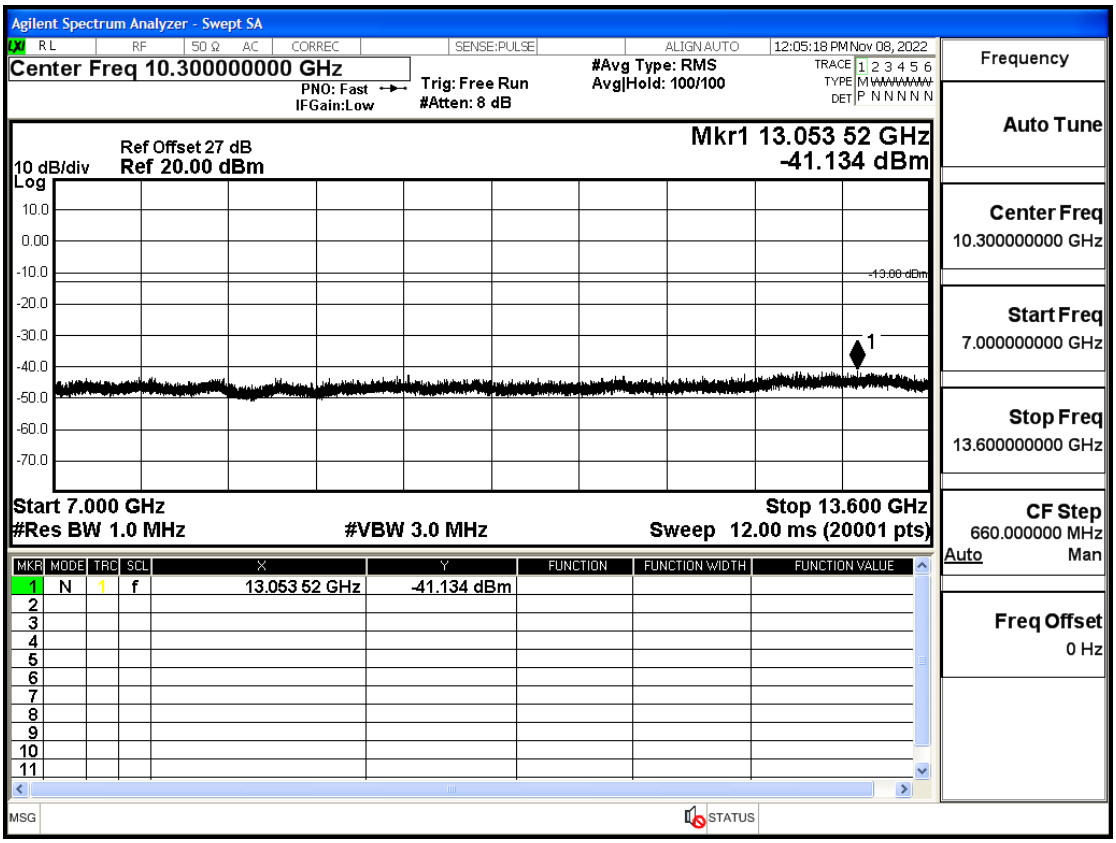
OB4-1.4-1754.3-Q16-6#LOW@30mHz-1GHz@Pass



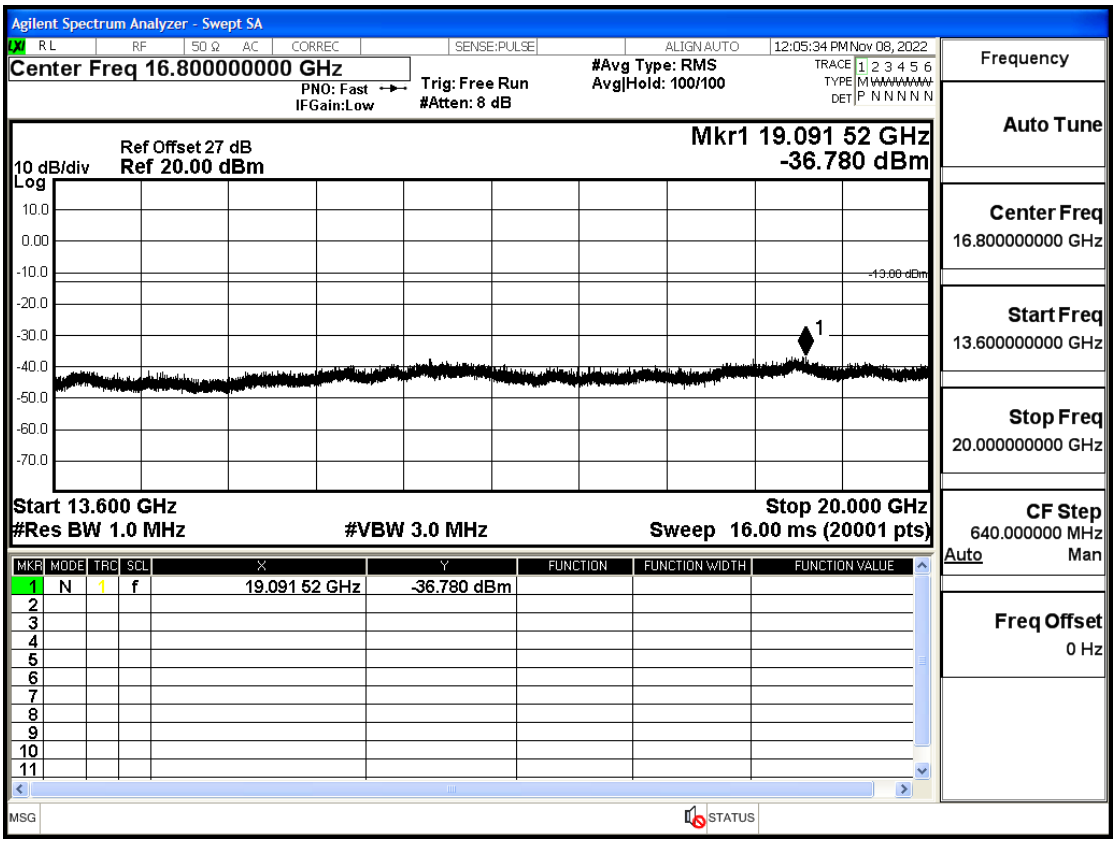
OB4-1.4-1754.3-Q16-6#LOW@1GHz-7GHz@Pass



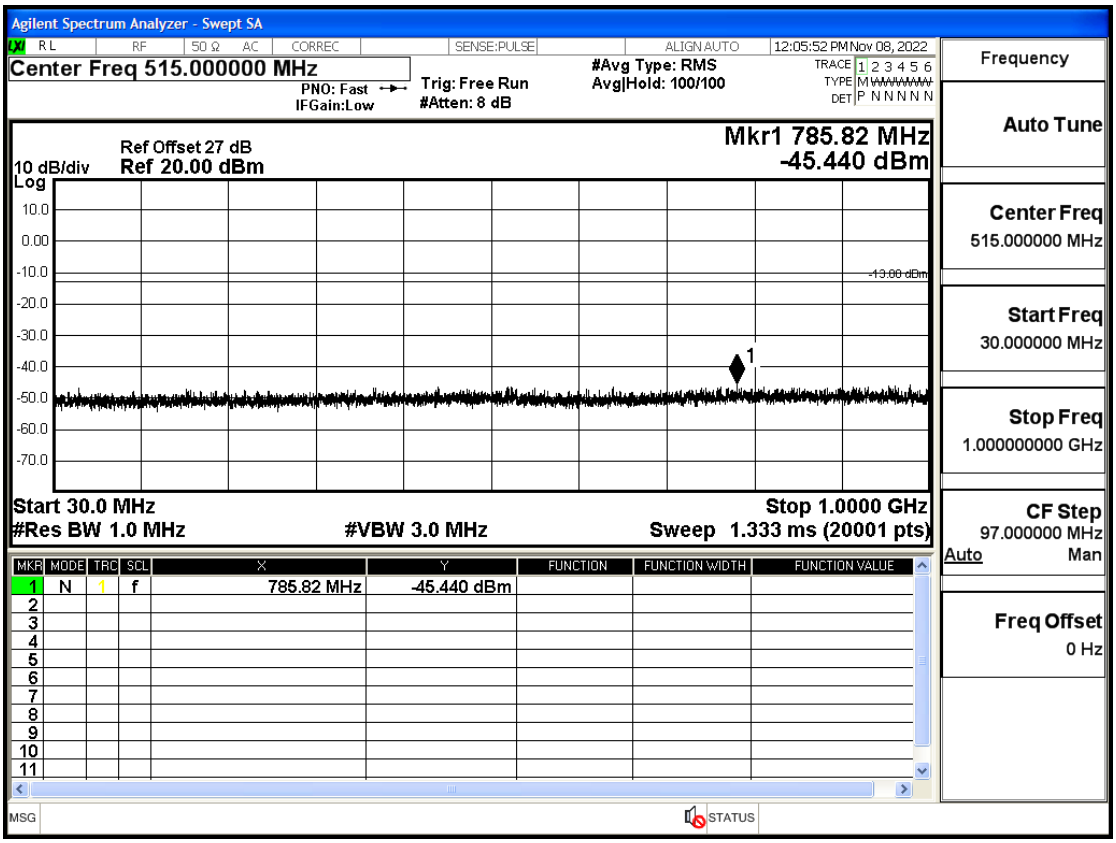
OB4-1.4-1754.3-Q16-6#LOW@7GHz-13.6GHz@Pass



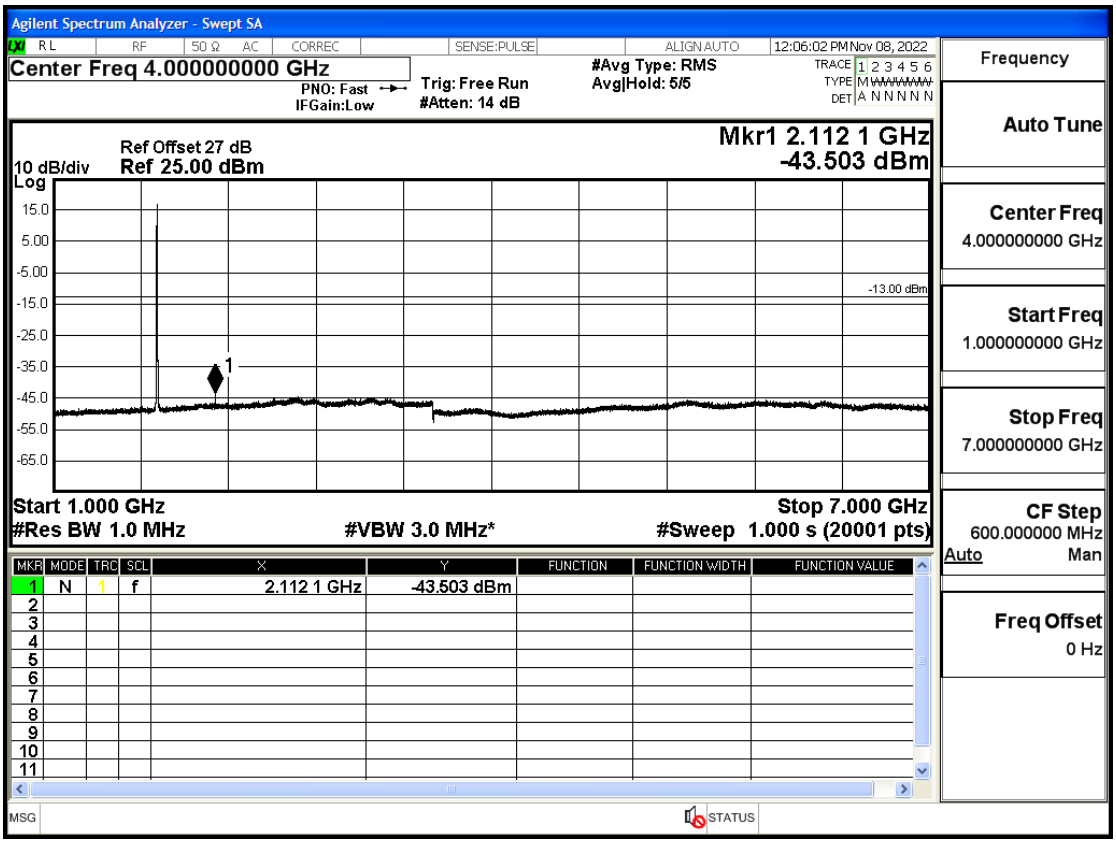
OB4-1.4-1754.3-Q16-6#LOW@13.6GHz-20GHz@Pass



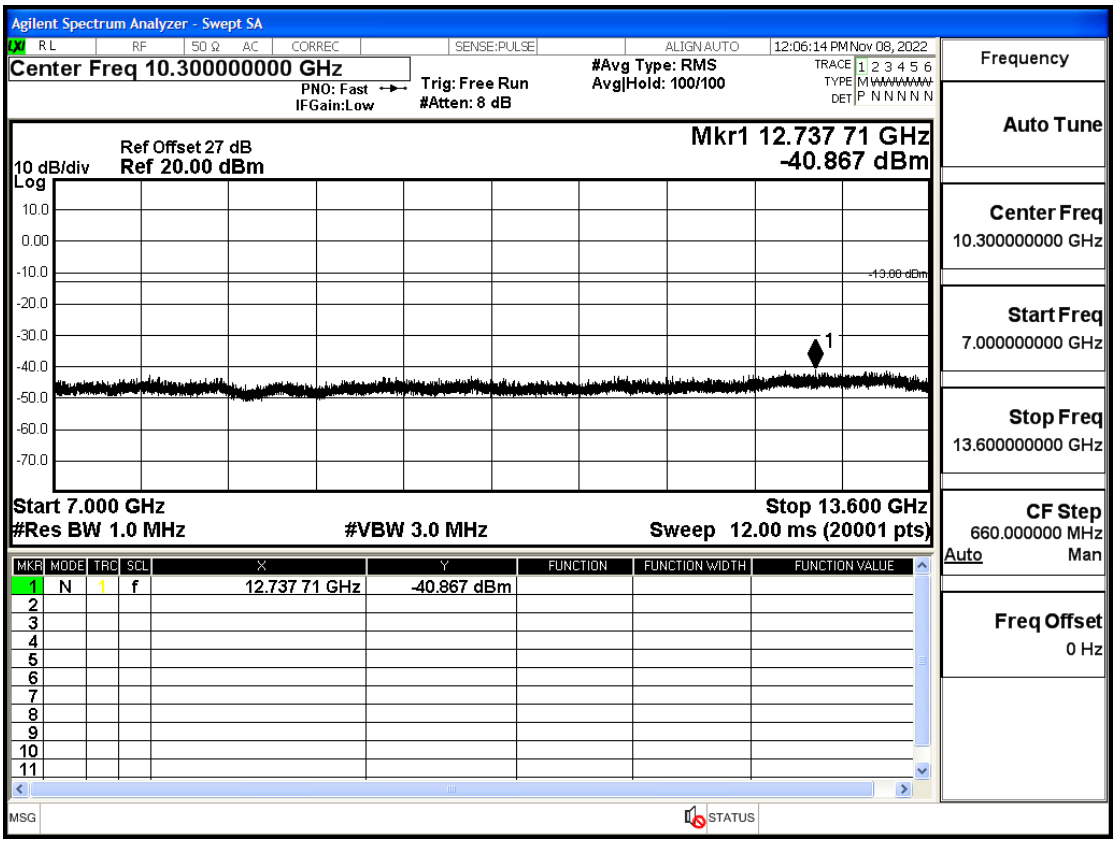
OB4-3-1711.5-Q16-15#LOW@30mHz-1GHz@Pass



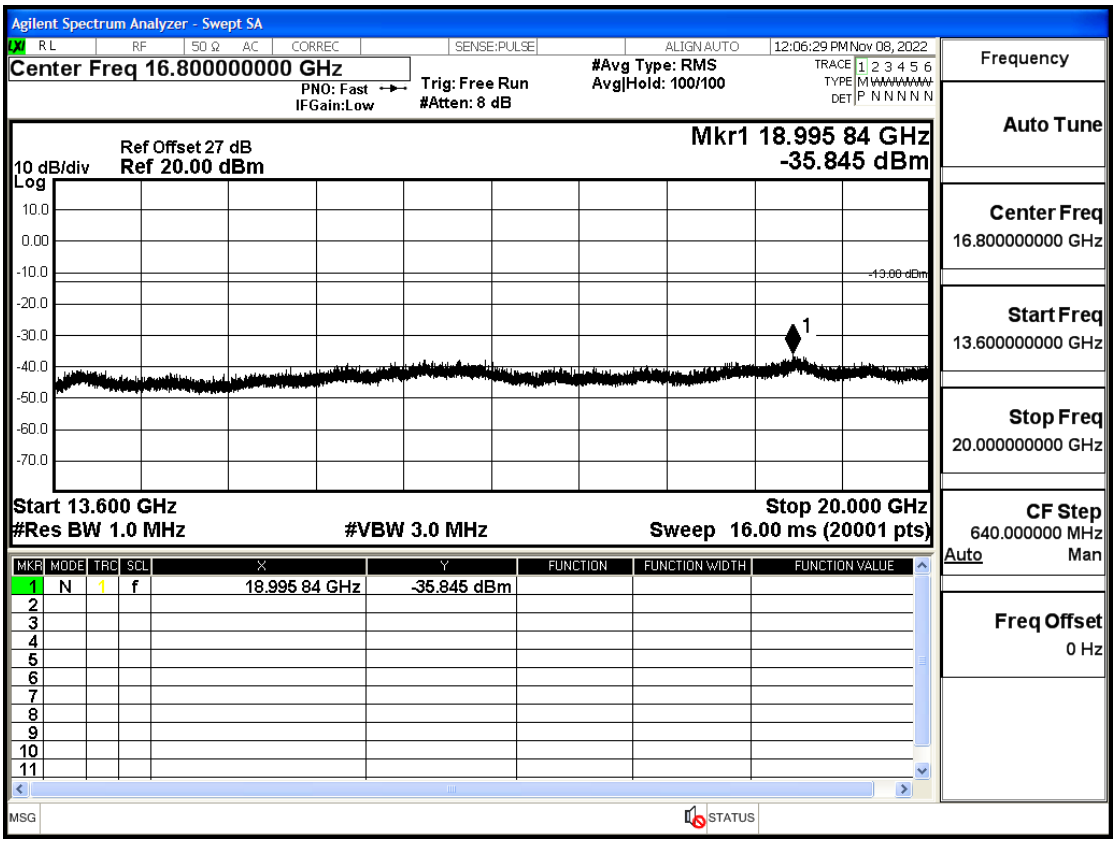
OB4-3-1711.5-Q16-15#LOW@1GHz-7GHz@Pass



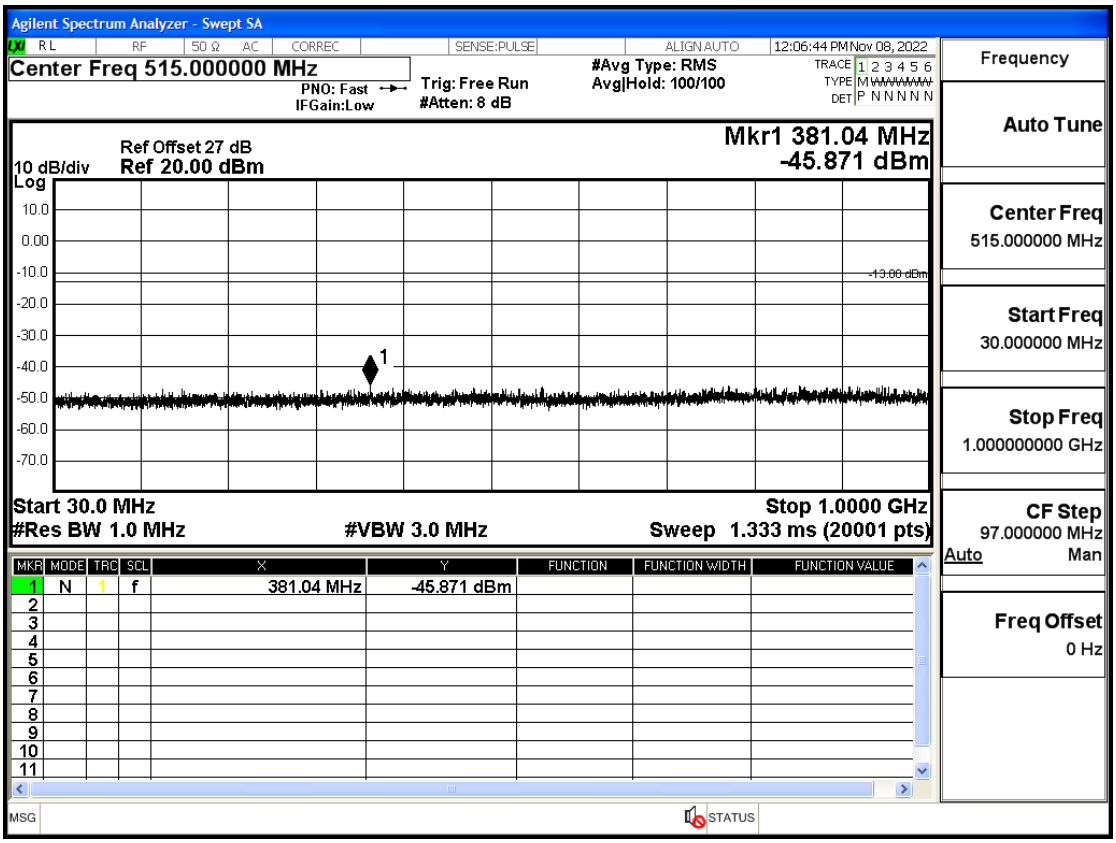
OB4-3-1711.5-Q16-15#LOW@7GHz-13.6GHz@Pass



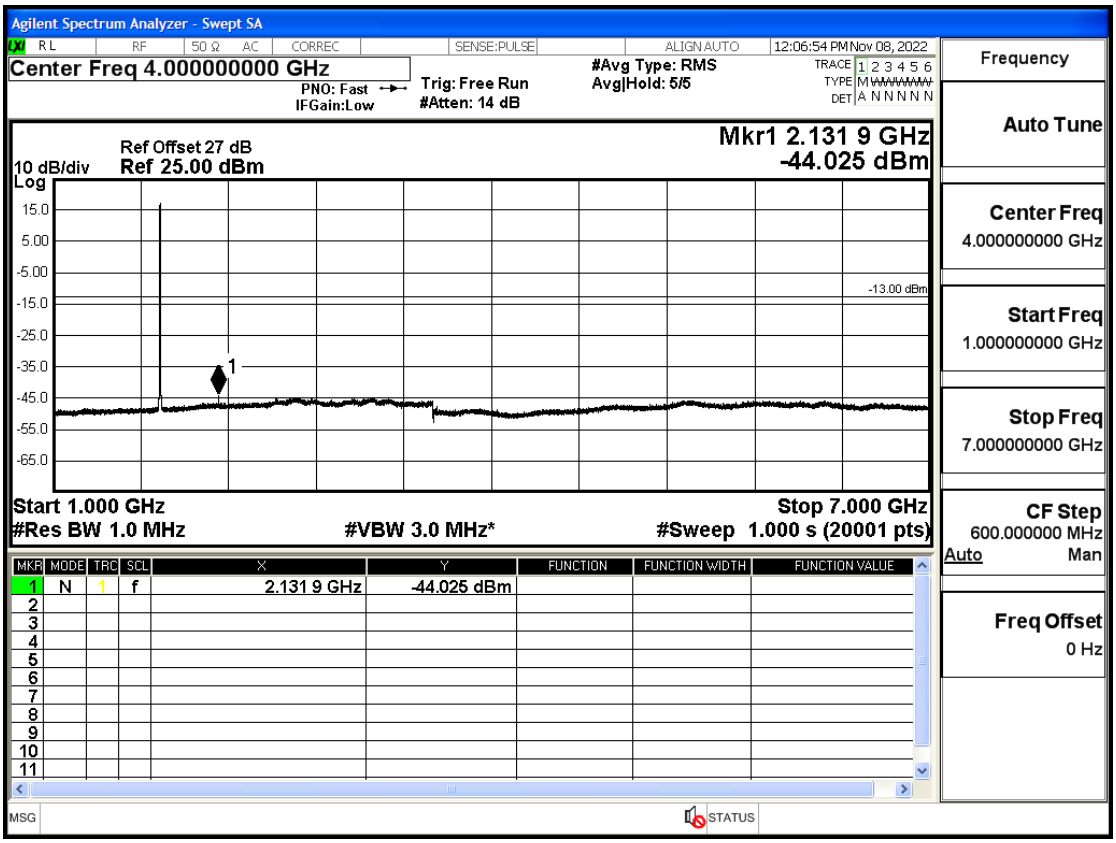
OB4-3-1711.5-Q16-15#LOW@13.6GHz-20GHz@Pass



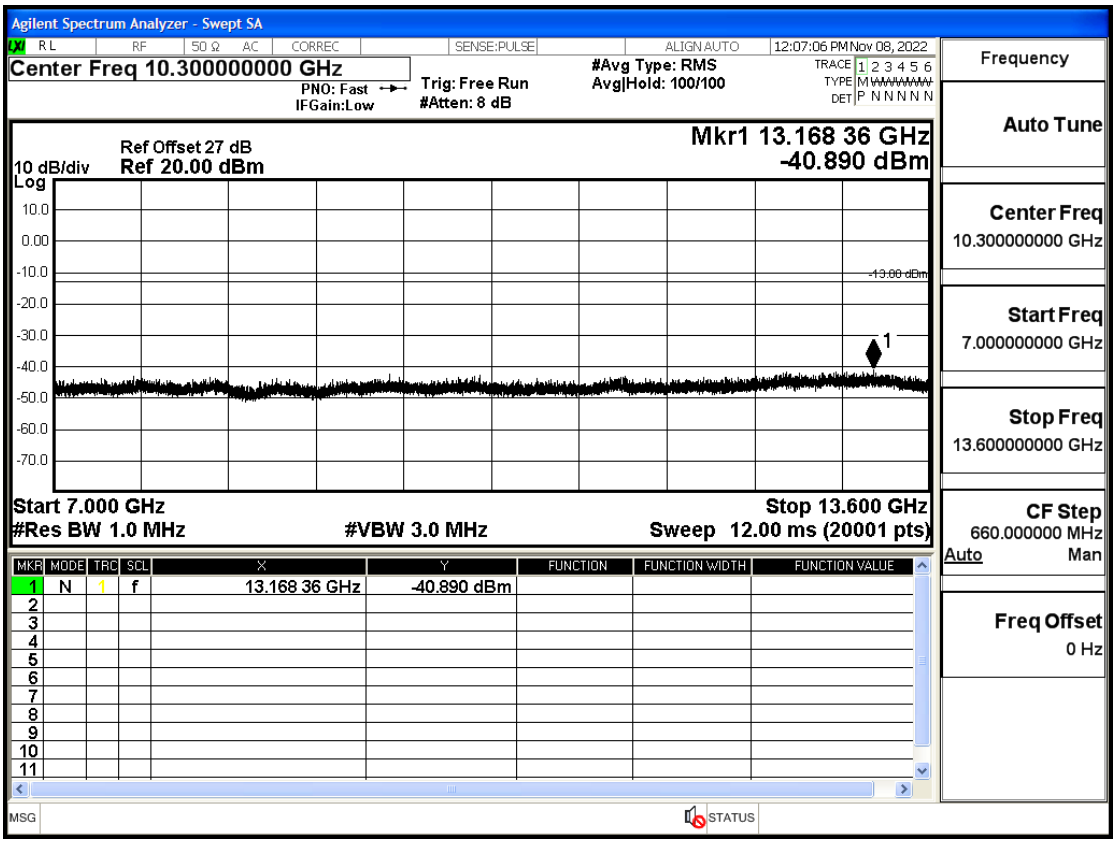
OB4-3-1732.5-Q16-15#LOW@30mHz-1GHz@Pass



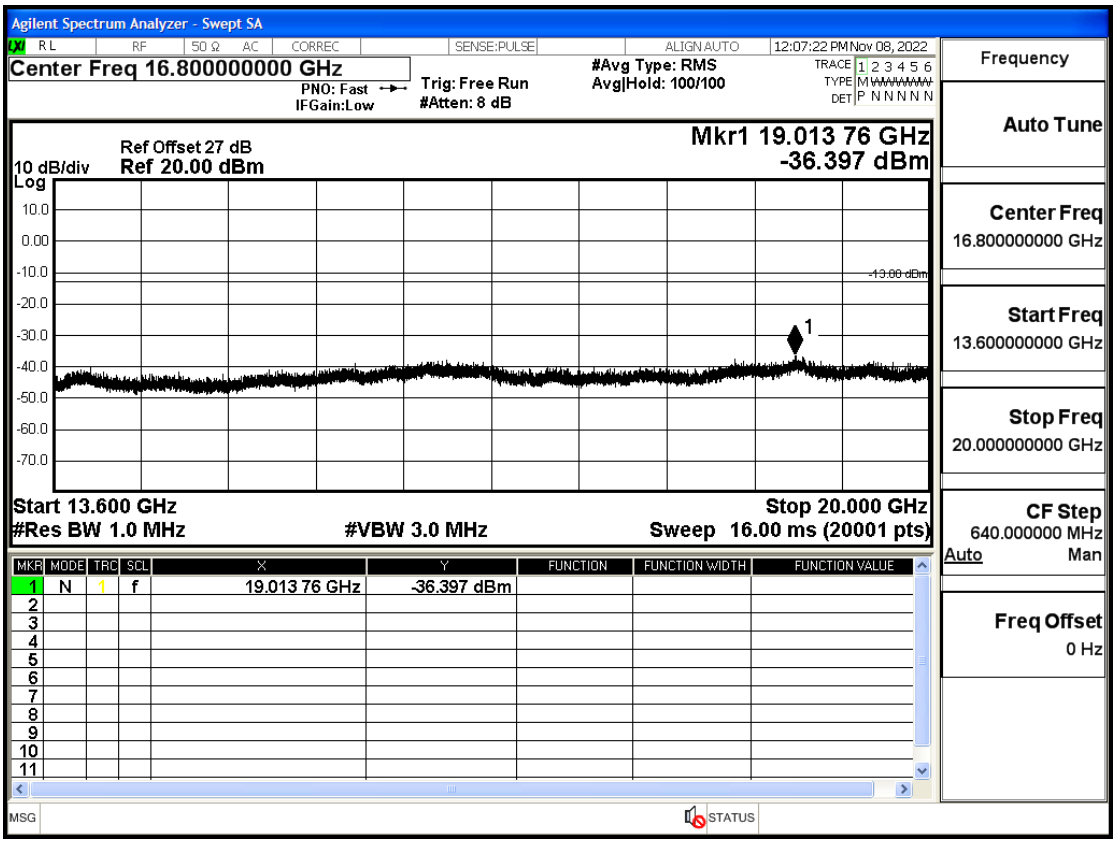
OB4-3-1732.5-Q16-15#LOW@1GHz-7GHz@Pass



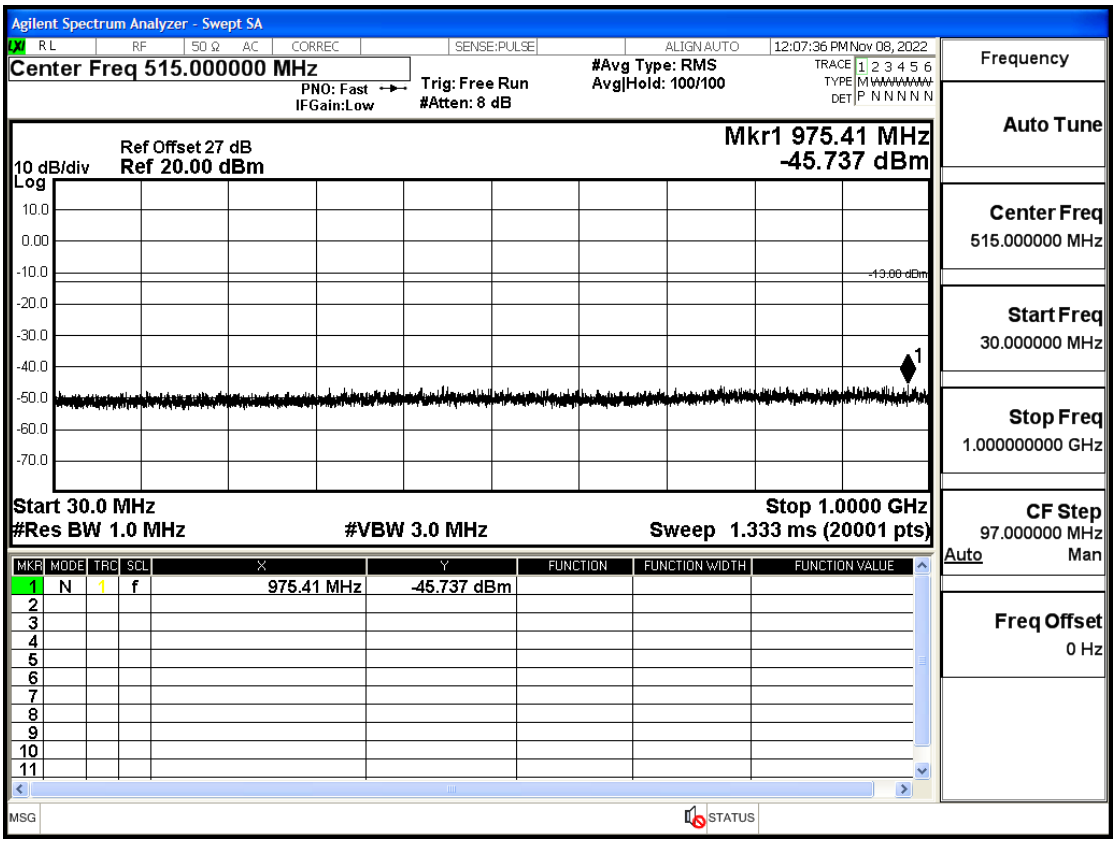
OB4-3-1732.5-Q16-15#LOW@7GHz-13.6GHz@Pass



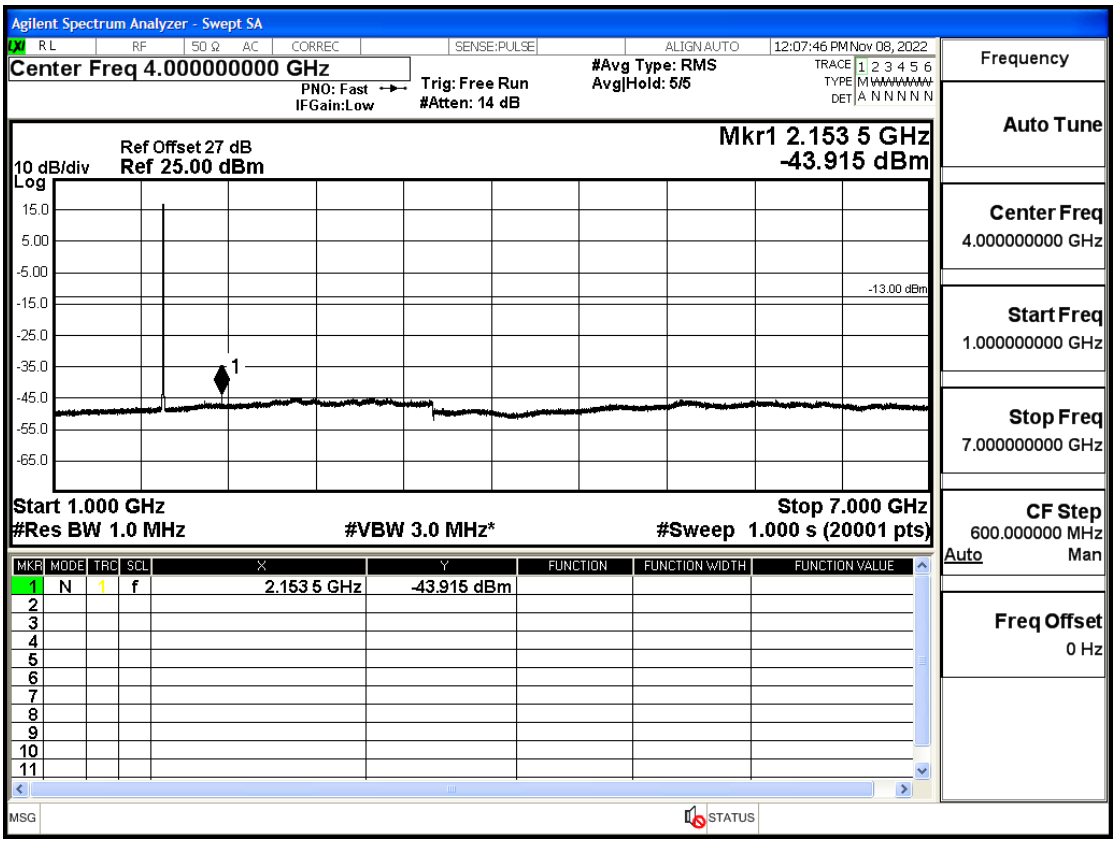
OB4-3-1732.5-Q16-15#LOW@13.6GHz-20GHz@Pass



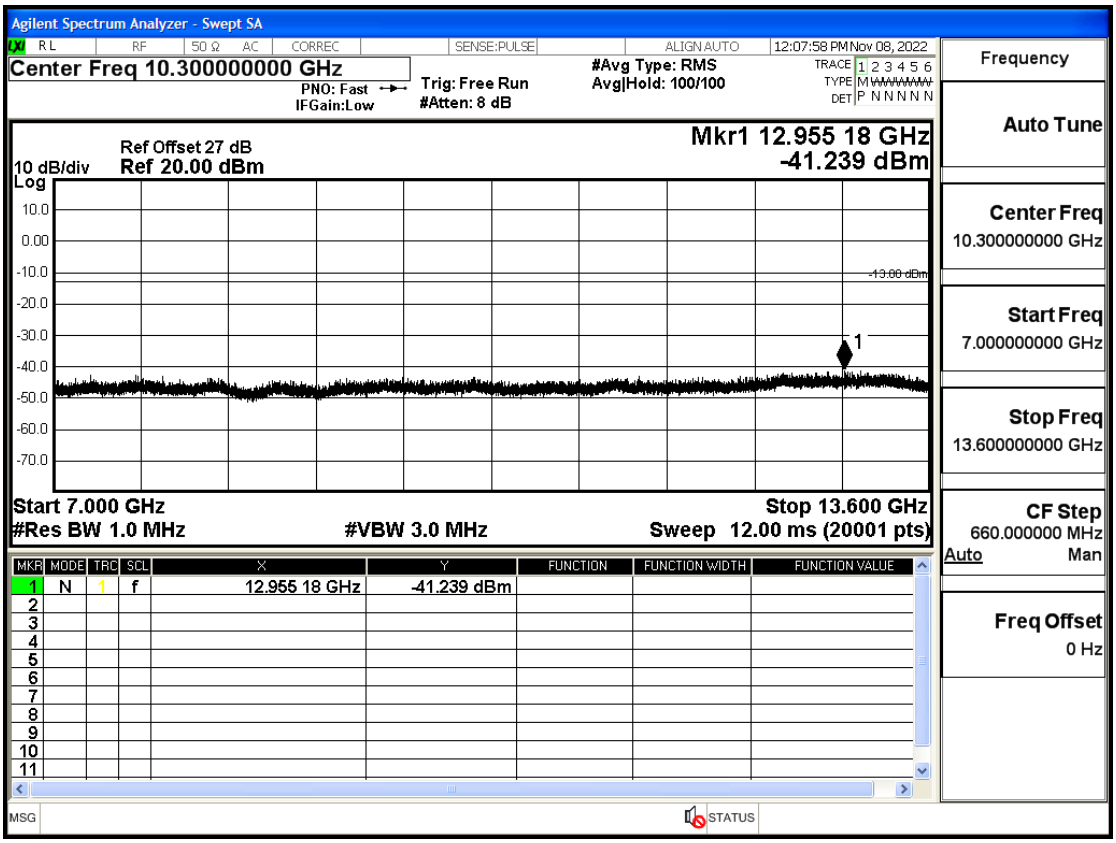
OB4-3-1753.5-Q16-15#LOW@30mHz-1GHz@Pass



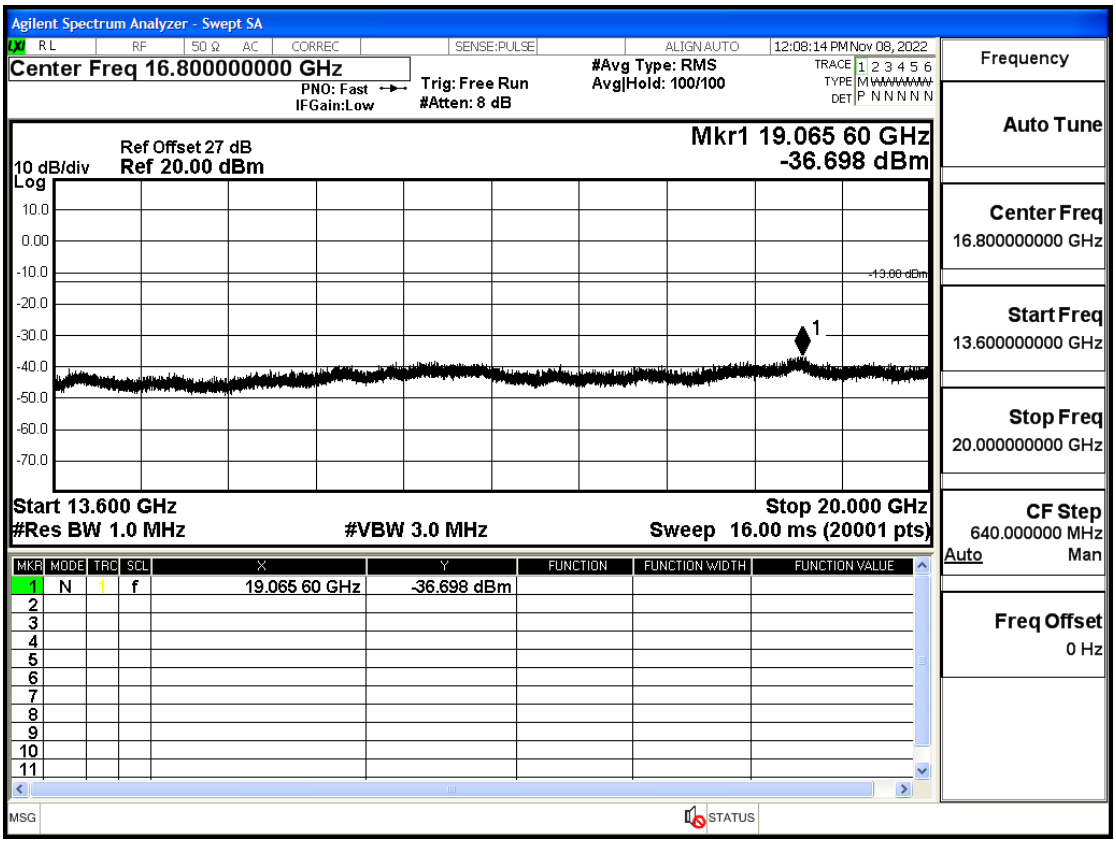
OB4-3-1753.5-Q16-15#LOW@1GHz-7GHz@Pass



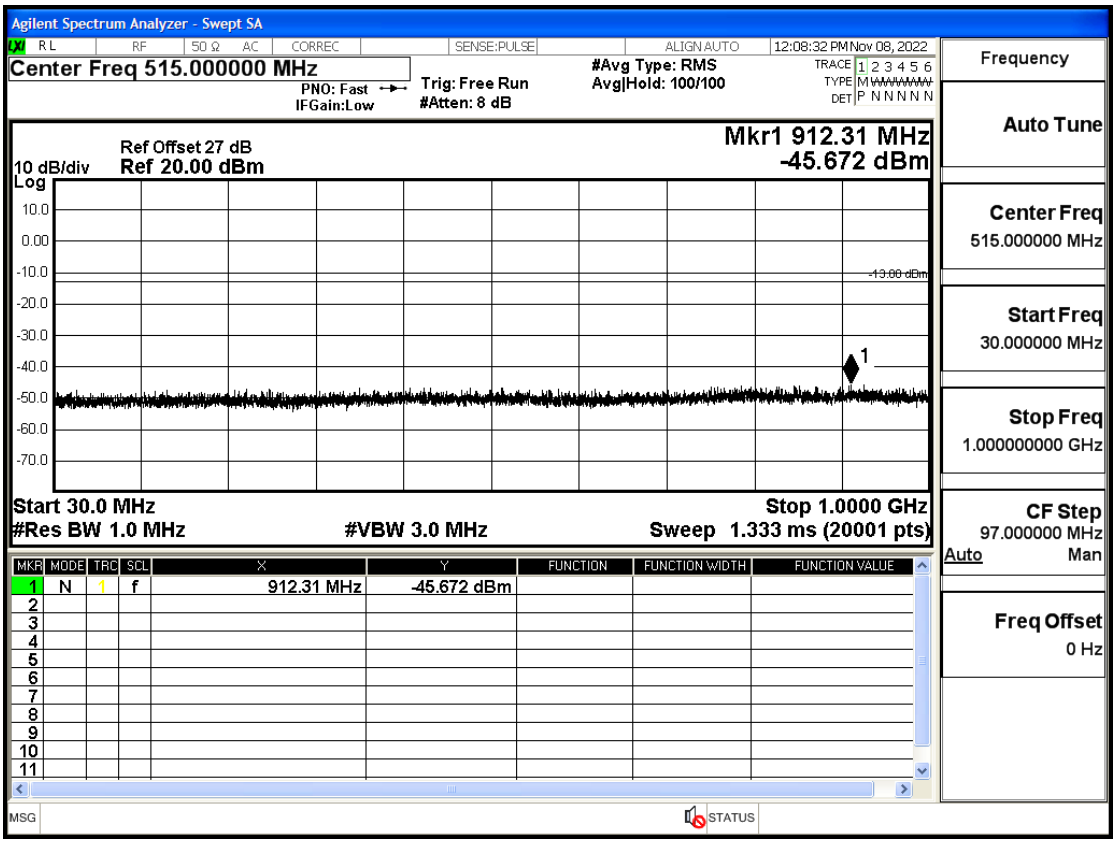
OB4-3-1753.5-Q16-15#LOW@7GHz-13.6GHz@Pass



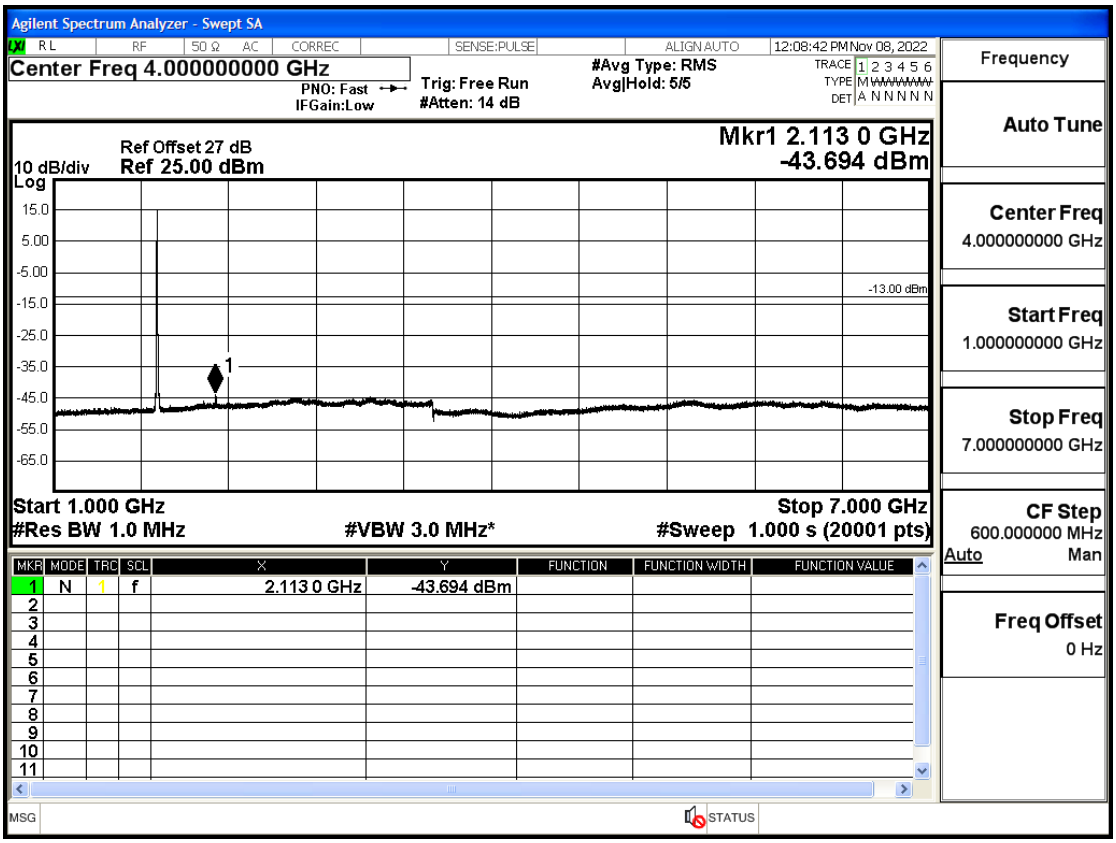
OB4-3-1753.5-Q16-15#LOW@13.6GHz-20GHz@Pass



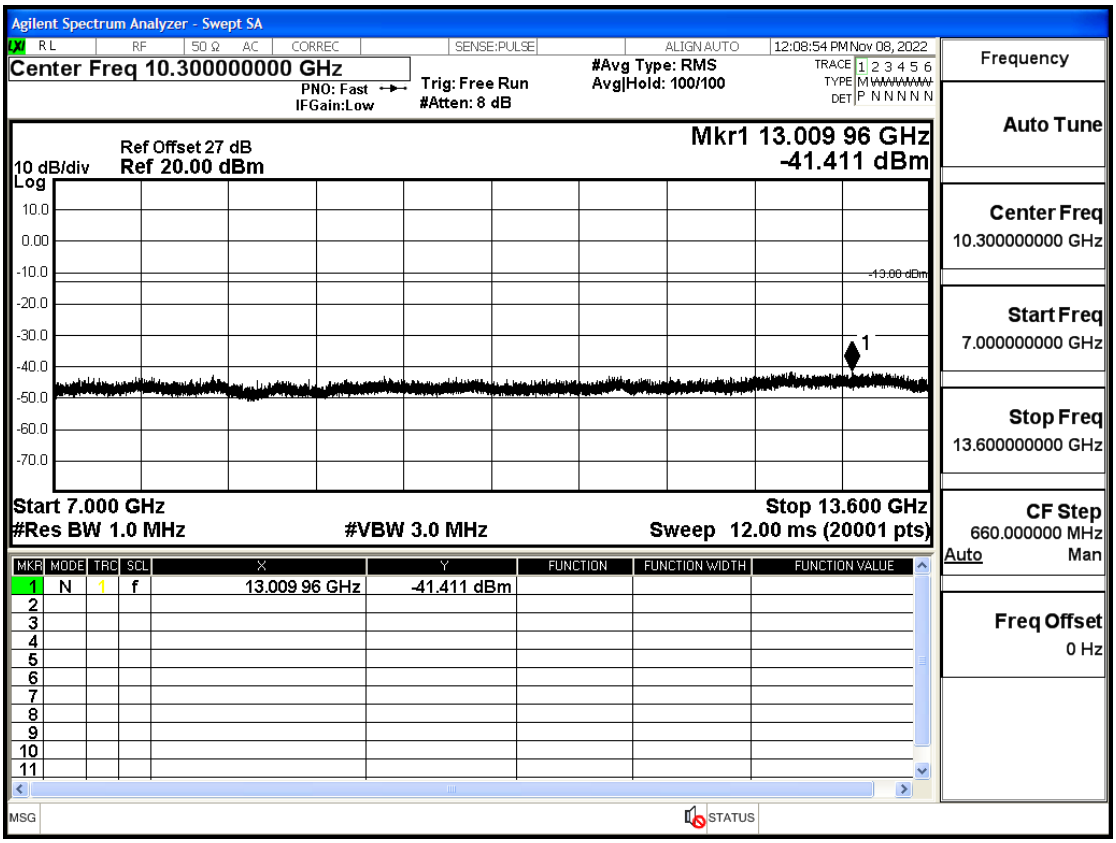
OB4-5-1712.5-Q16-25#LOW@30mHz-1GHz@Pass



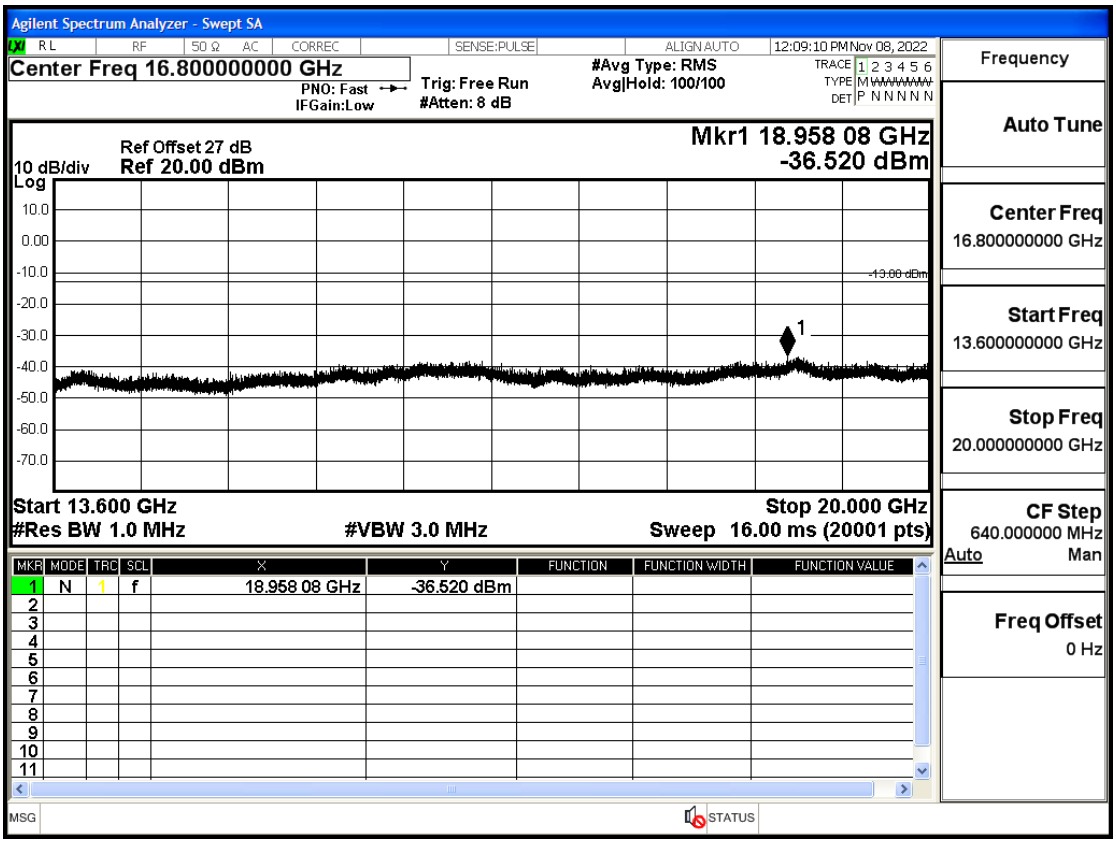
OB4-5-1712.5-Q16-25#LOW@1GHz-7GHz@Pass



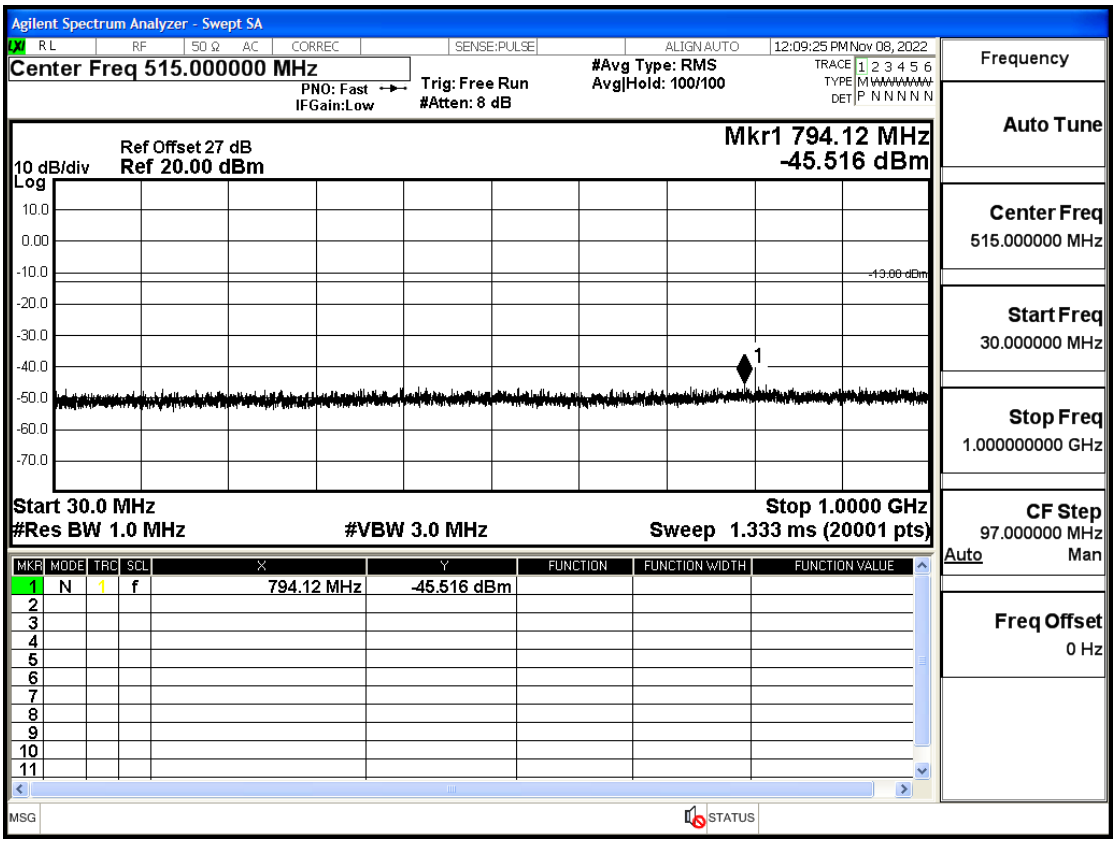
OB4-5-1712.5-Q16-25#LOW@7GHz-13.6GHz@Pass



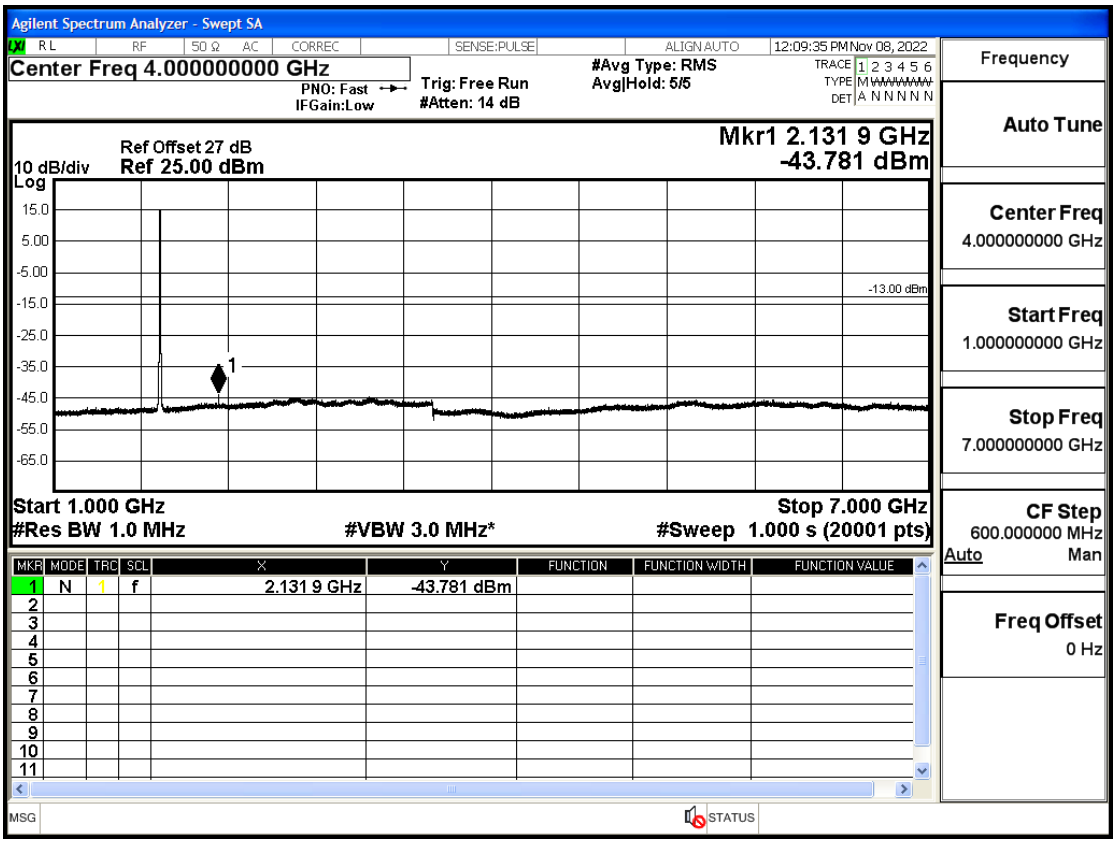
OB4-5-1712.5-Q16-25#LOW@13.6GHz-20GHz@Pass



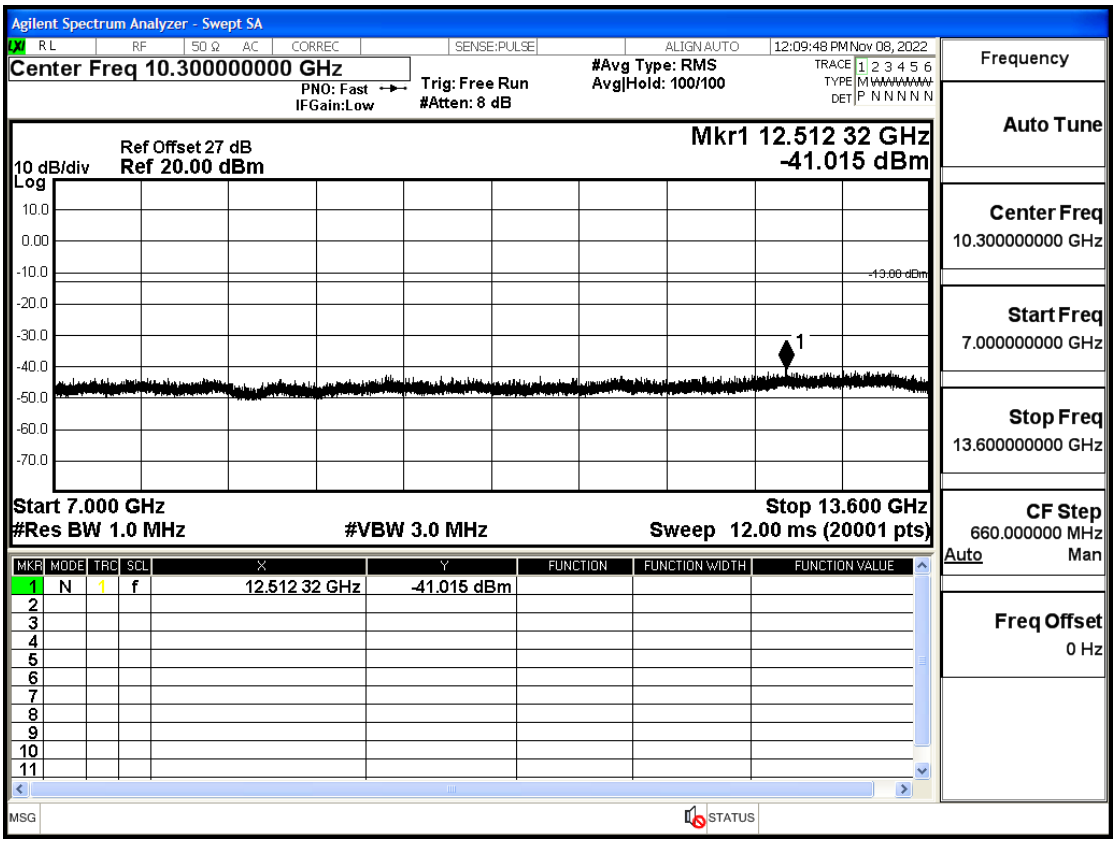
OB4-5-1732.5-Q16-25#LOW@30mHz-1GHz@Pass



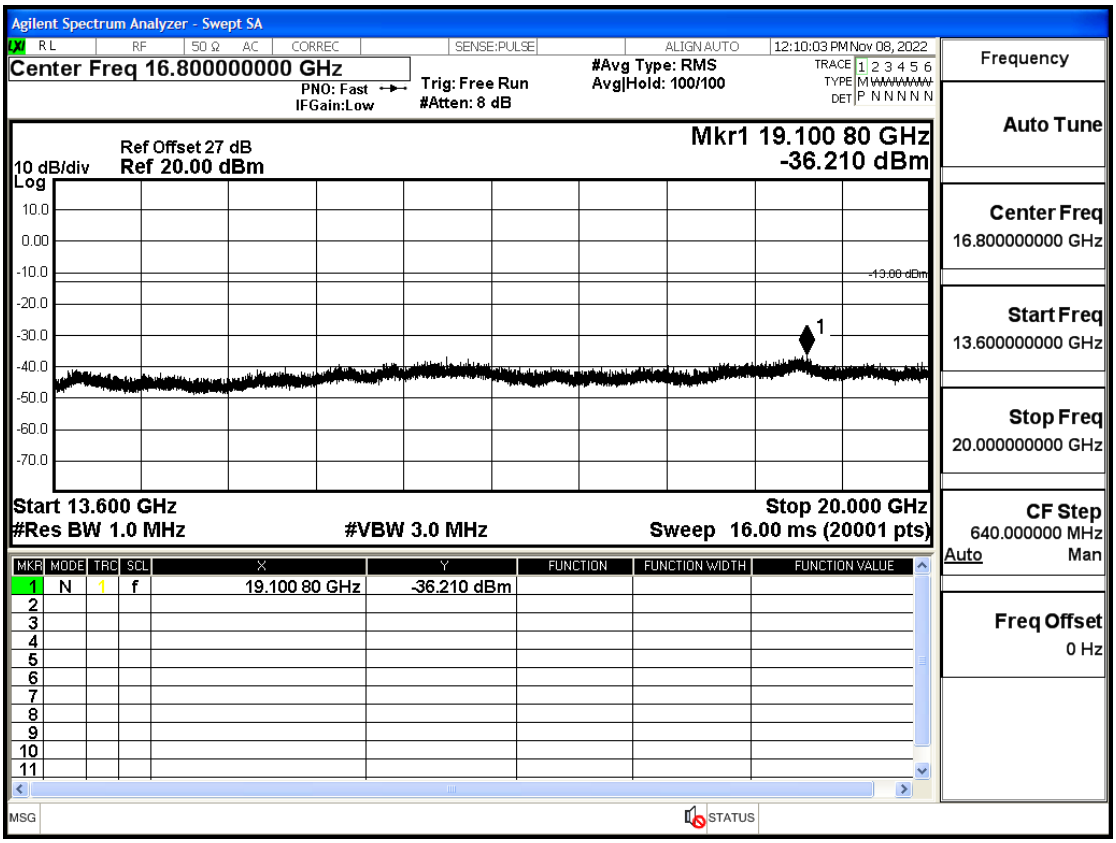
OB4-5-1732.5-Q16-25#LOW@1GHz-7GHz@Pass



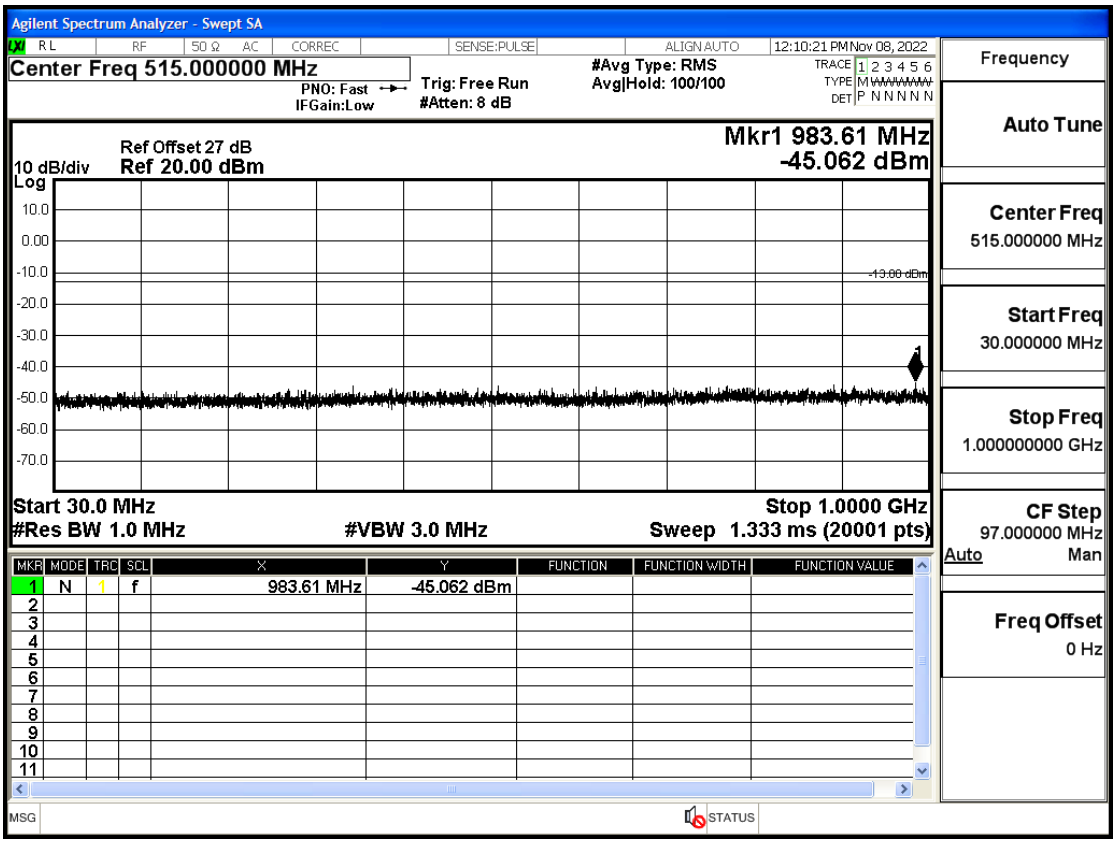
OB4-5-1732.5-Q16-25#LOW@7GHz-13.6GHz@Pass



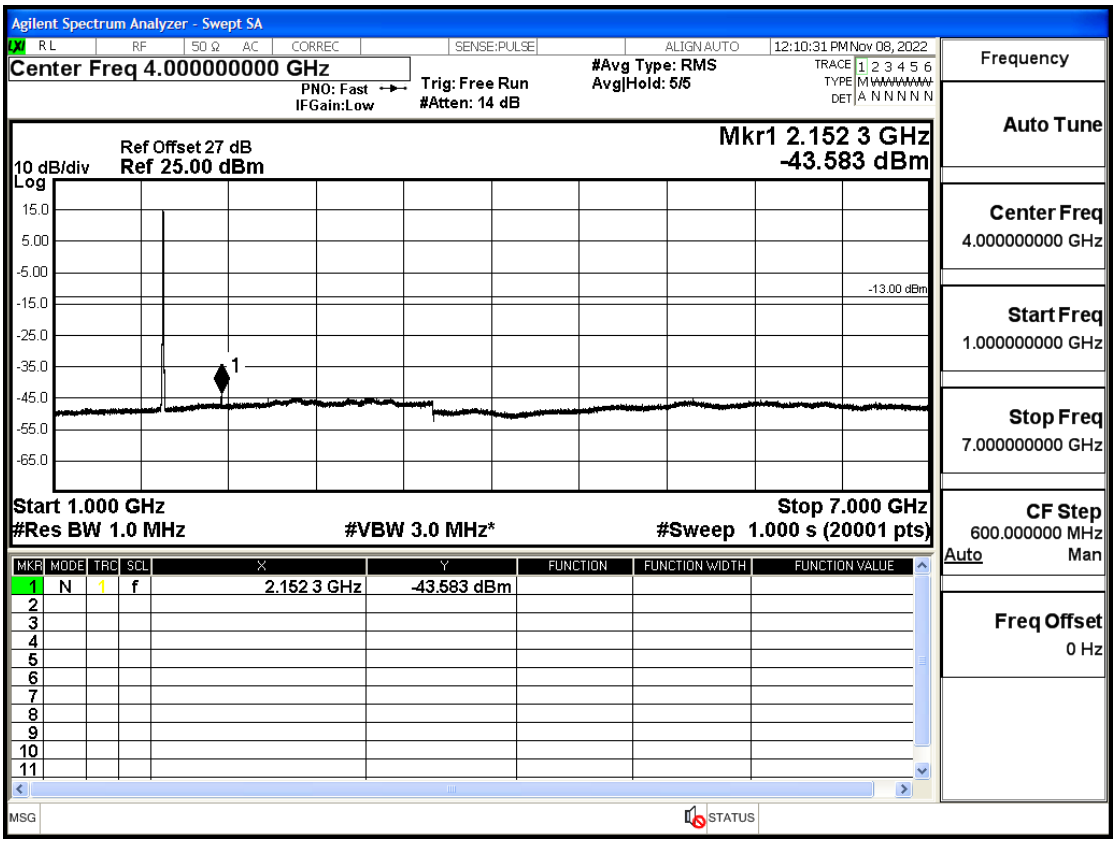
OB4-5-1732.5-Q16-25#LOW@13.6GHz-20GHz@Pass



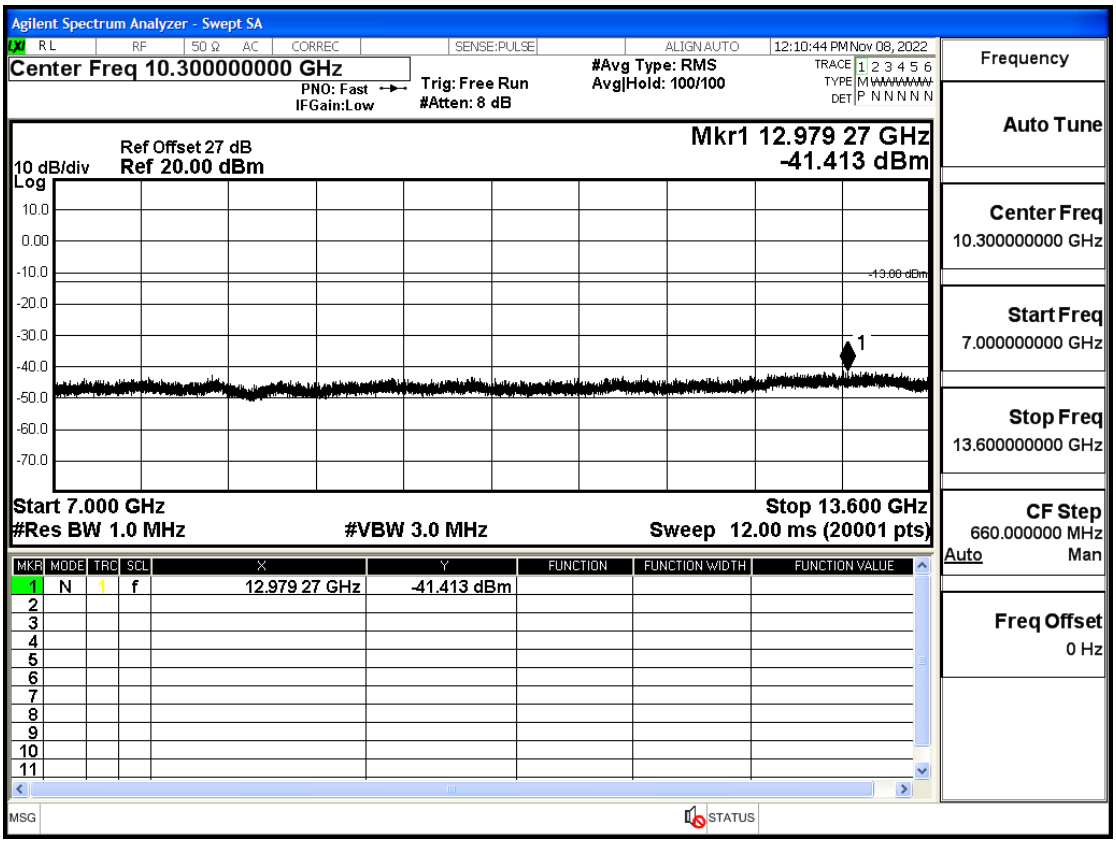
OB4-5-1752.5-Q16-25#LOW@30mHz-1GHz@Pass



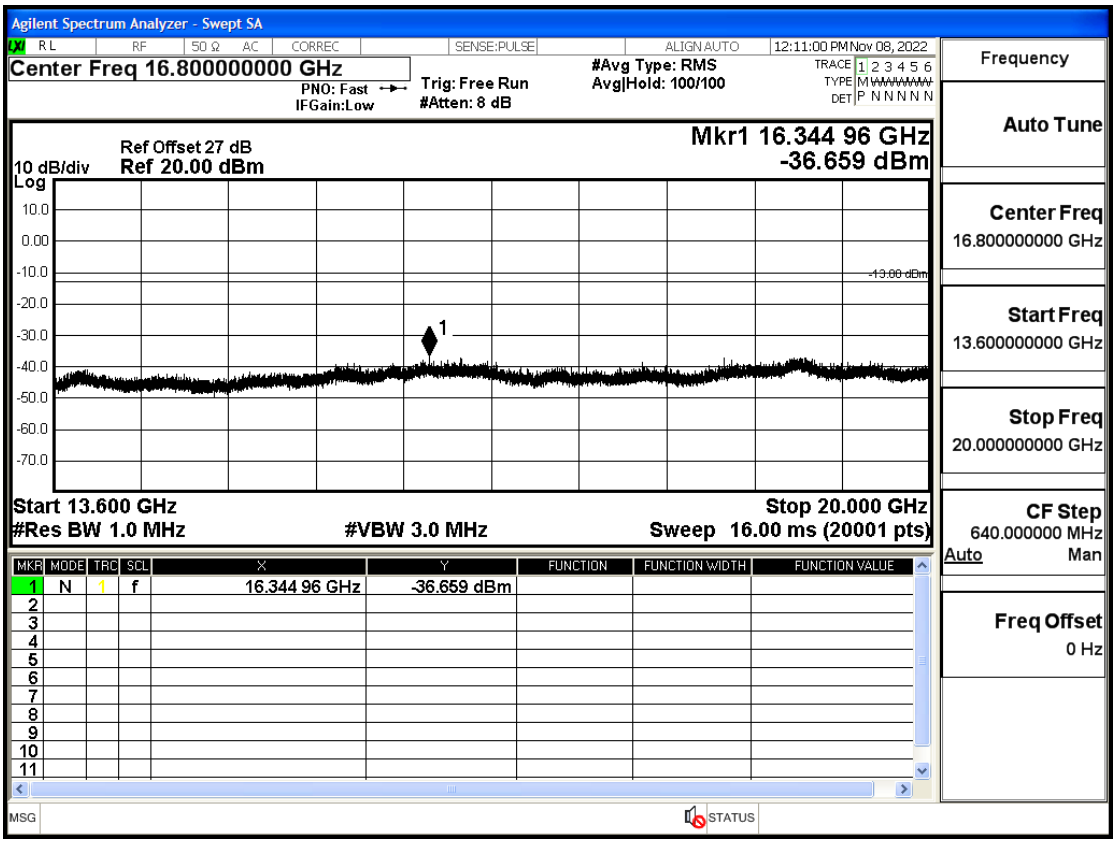
OB4-5-1752.5-Q16-25#LOW@1GHz-7GHz@Pass



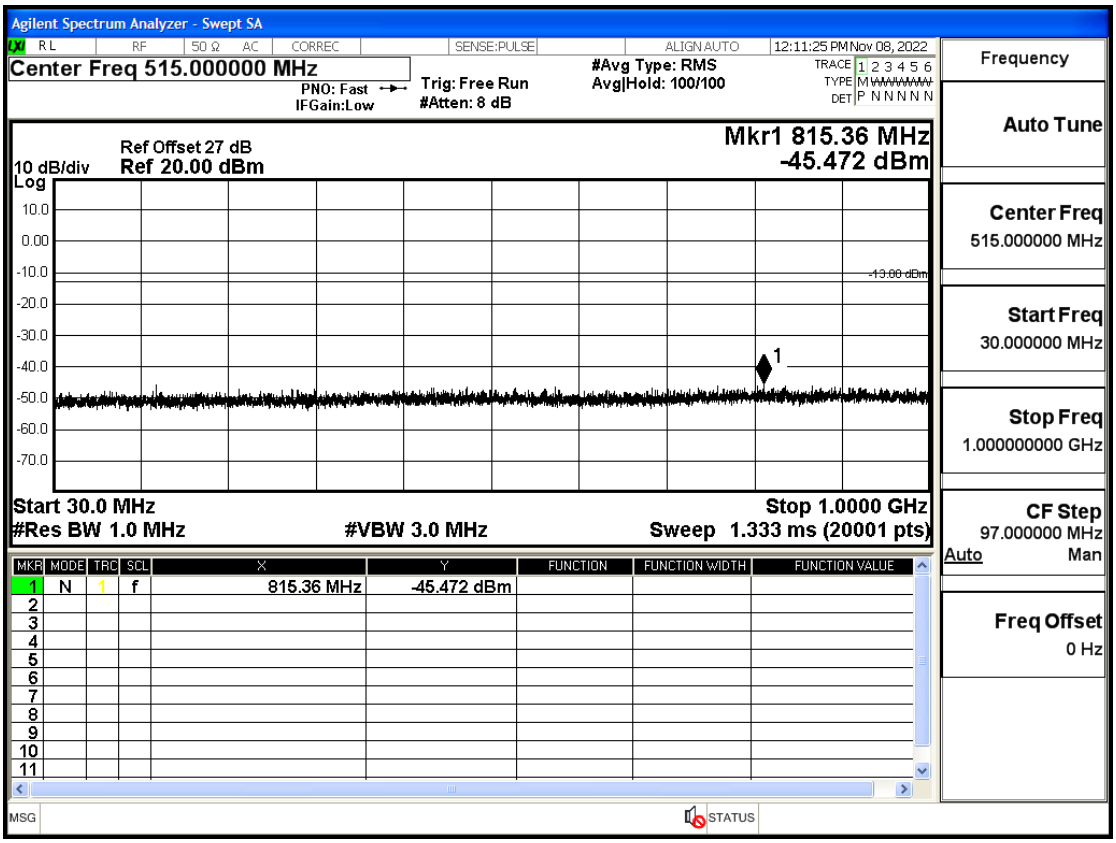
OB4-5-1752.5-Q16-25#LOW@7GHz-13.6GHz@Pass



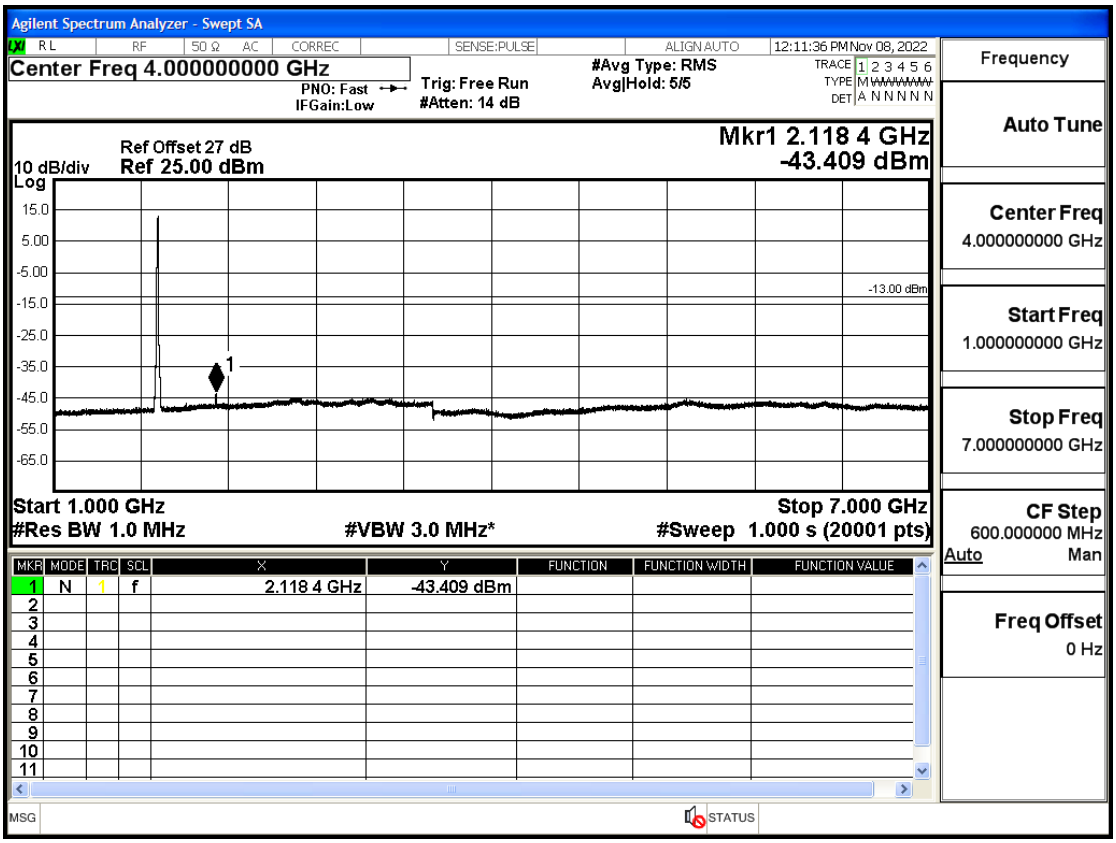
OB4-5-1752.5-Q16-25#LOW@13.6GHz-20GHz@Pass



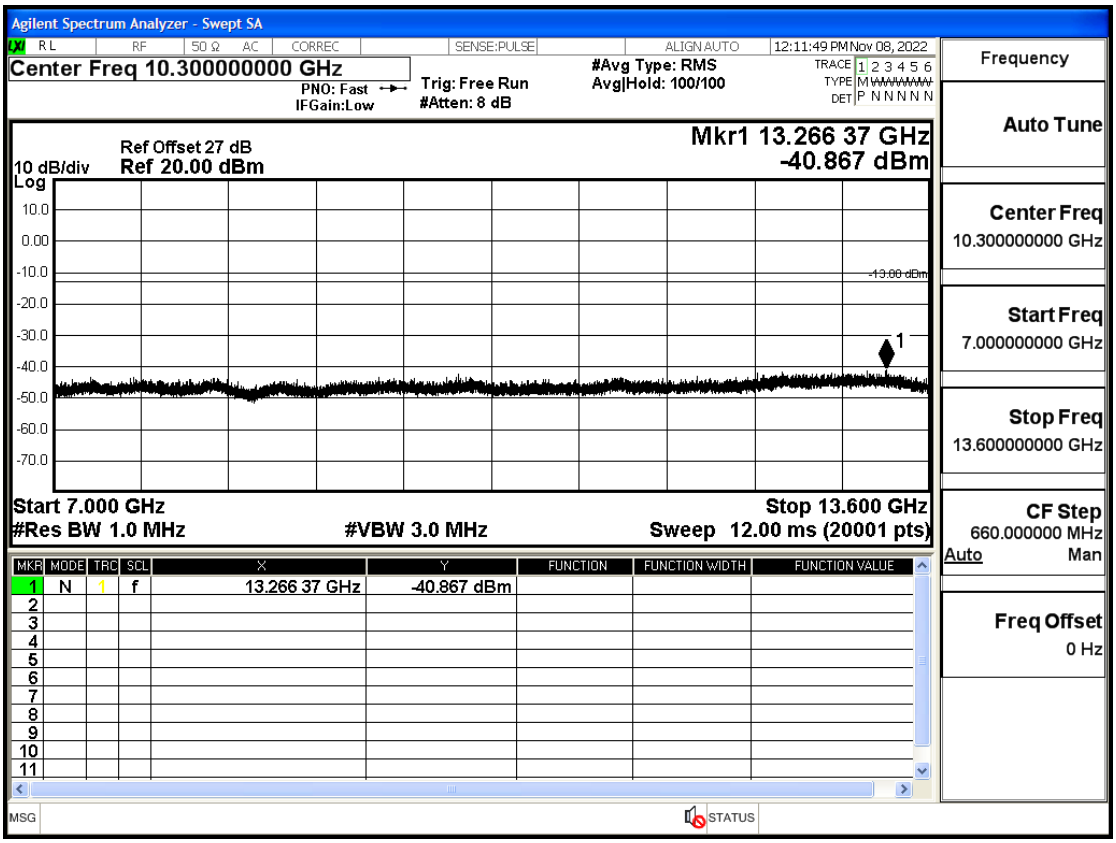
OB4-10-1715-Q16-50#LOW@30mHz-1GHz@Pass



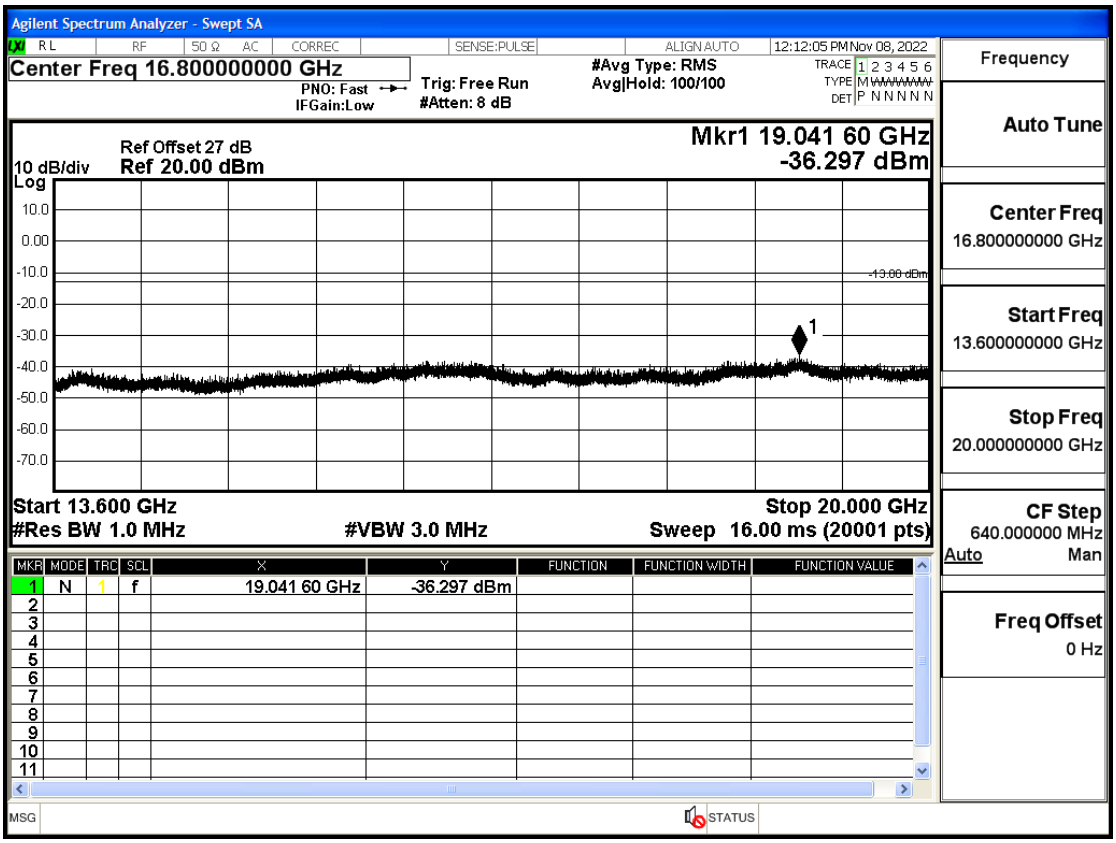
OB4-10-1715-Q16-50#LOW@1GHz-7GHz@Pass



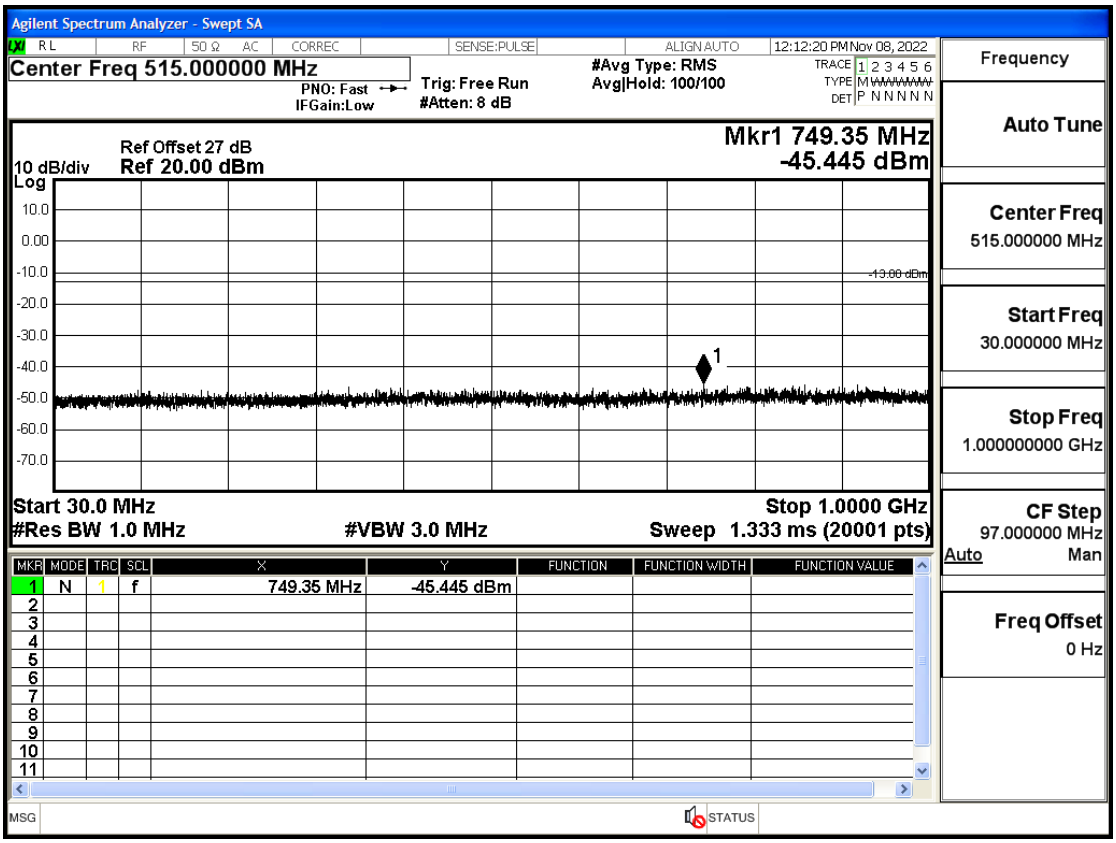
OB4-10-1715-Q16-50#LOW@7GHz-13.6GHz@Pass



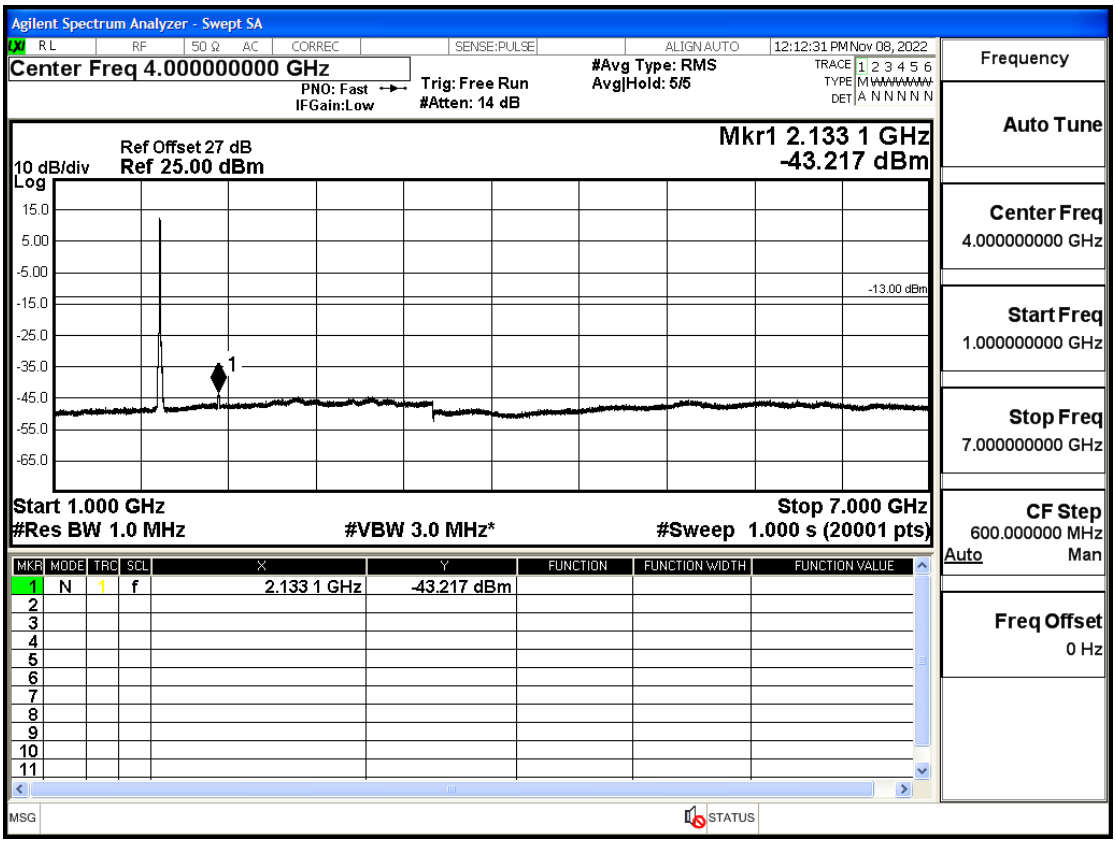
OB4-10-1715-Q16-50#LOW@13.6GHz-20GHz@Pass



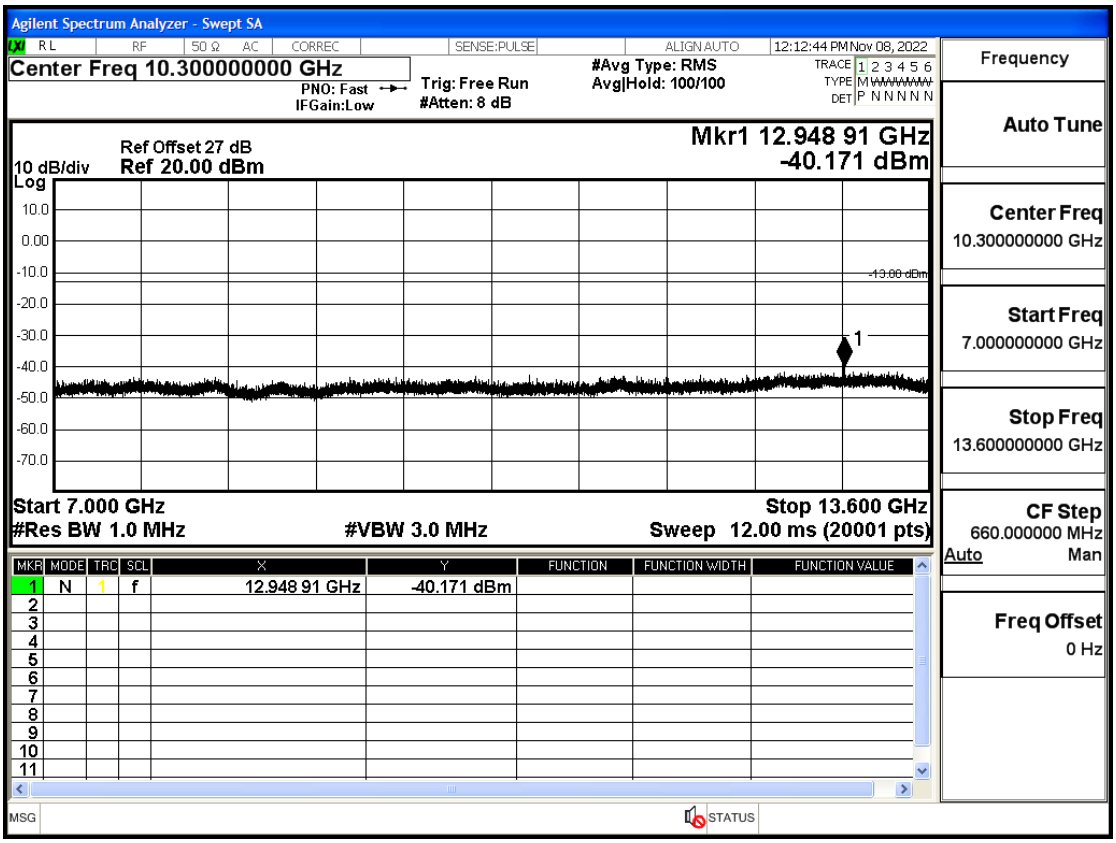
OB4-10-1732.5-Q16-50#LOW@30mHz-1GHz@Pass



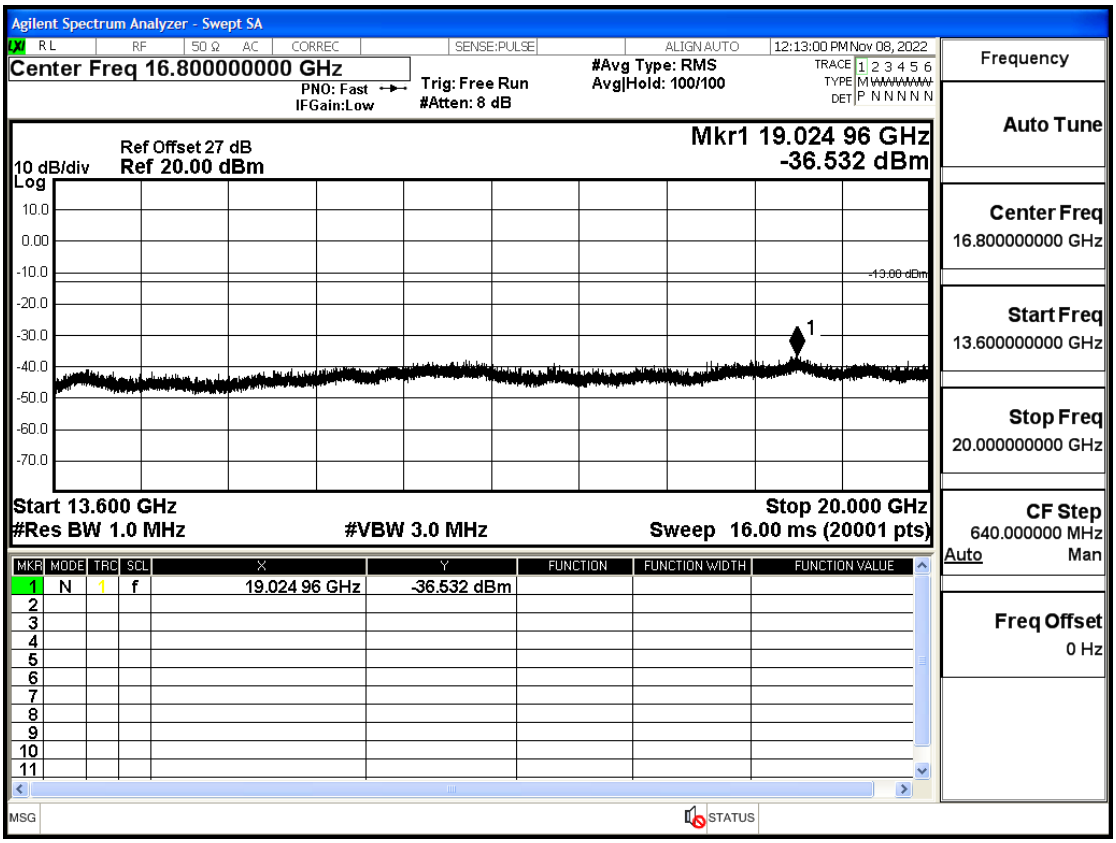
OB4-10-1732.5-Q16-50#LOW@1GHz-7GHz@Pass



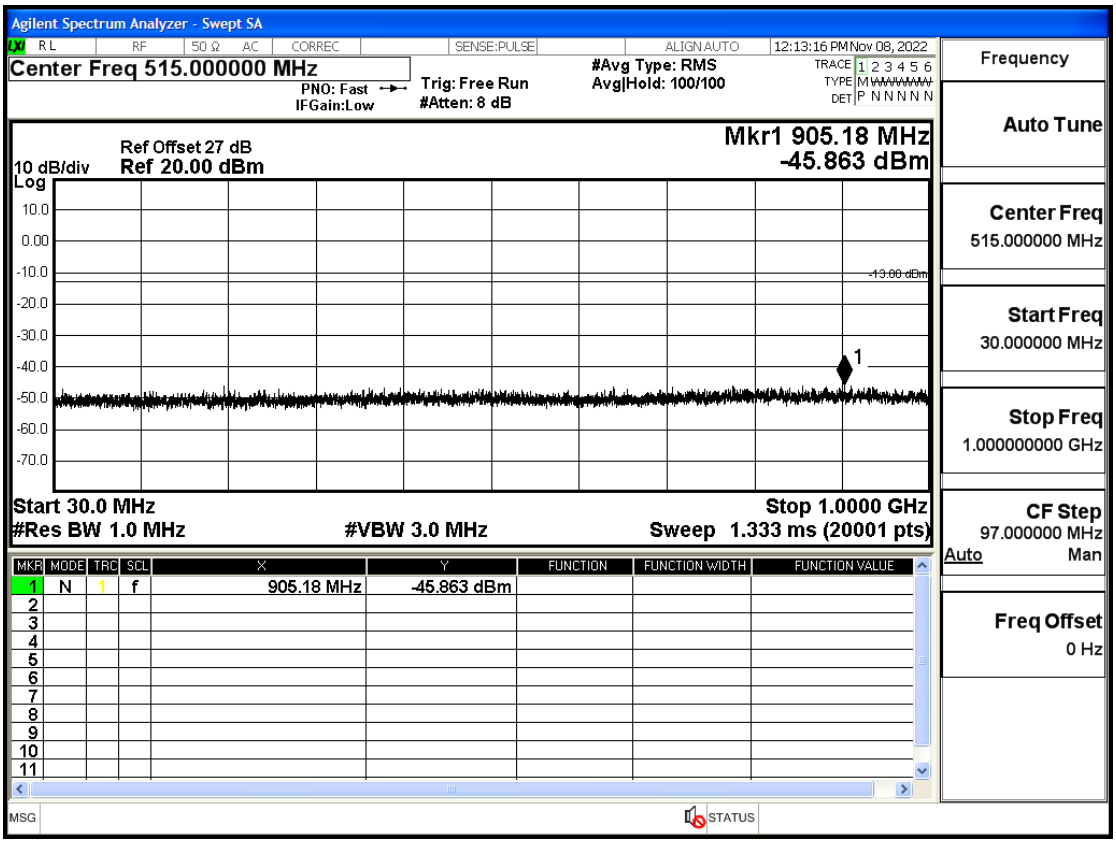
OB4-10-1732.5-Q16-50#LOW@7GHz-13.6GHz@Pass



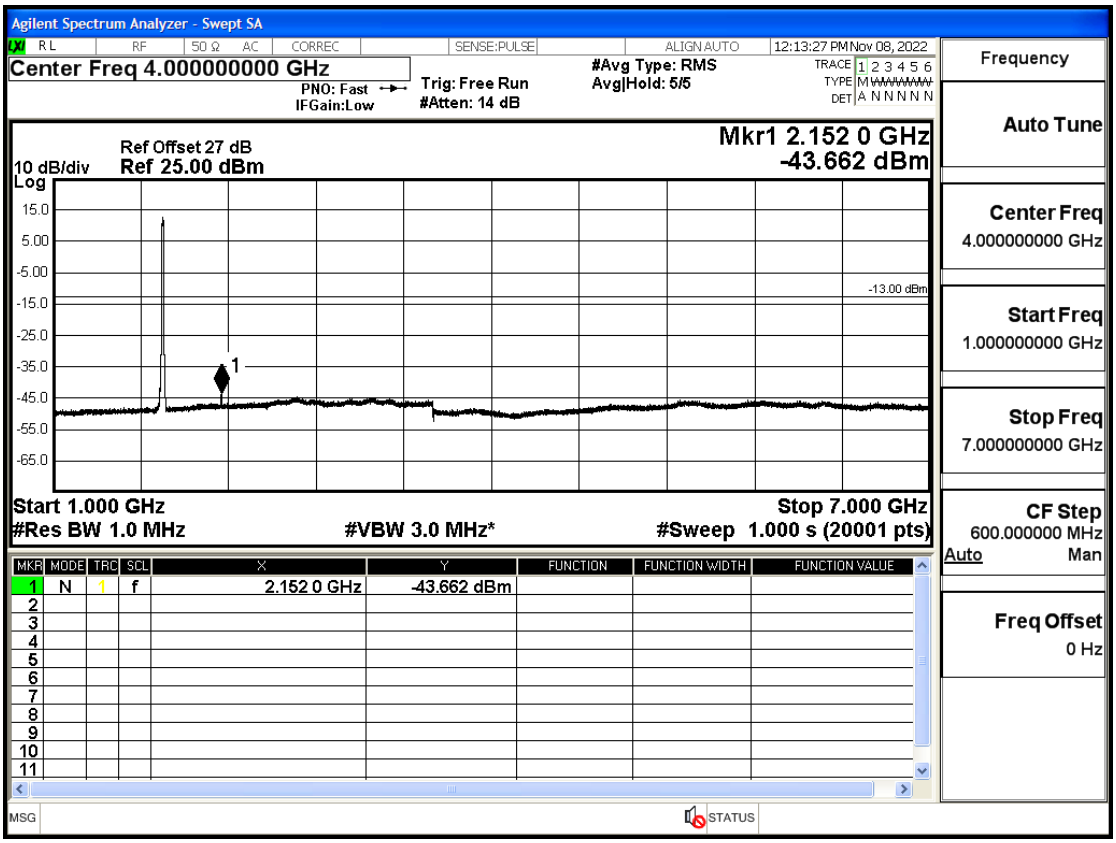
OB4-10-1732.5-Q16-50#LOW@13.6GHz-20GHz@Pass



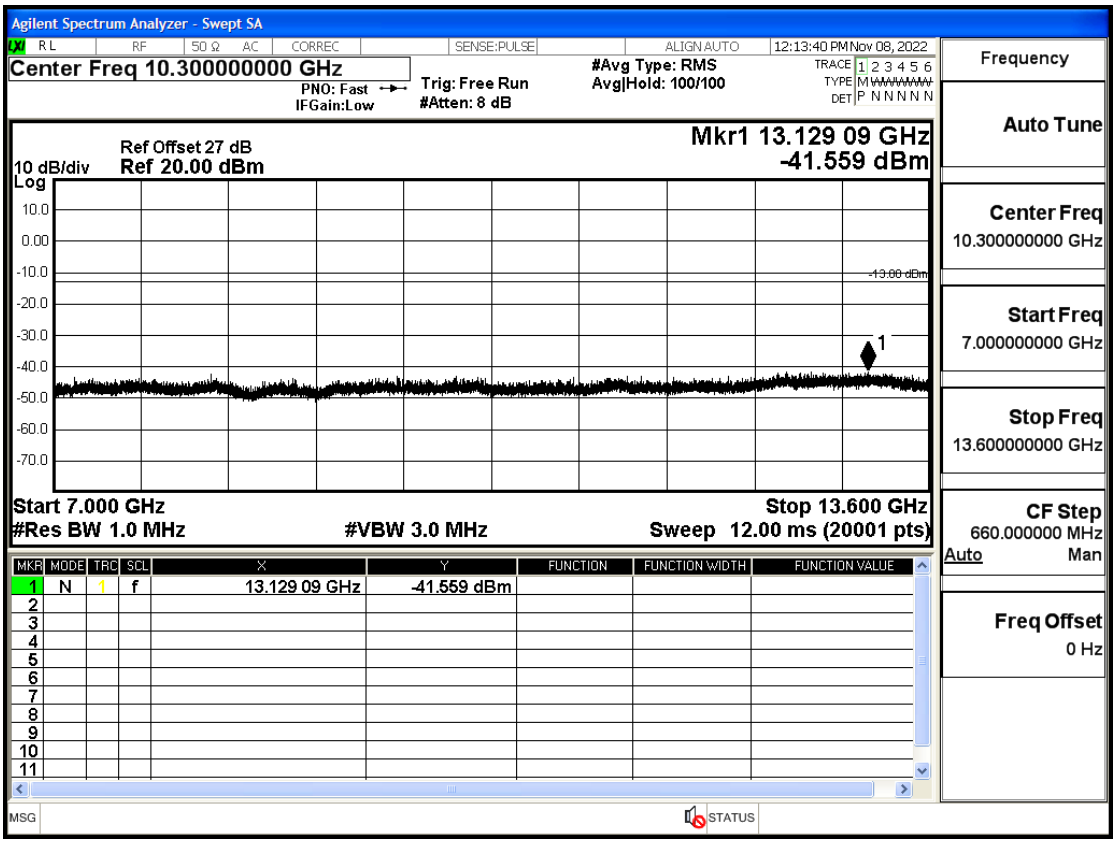
OB4-10-1750-Q16-50#LOW@30mHz-1GHz@Pass



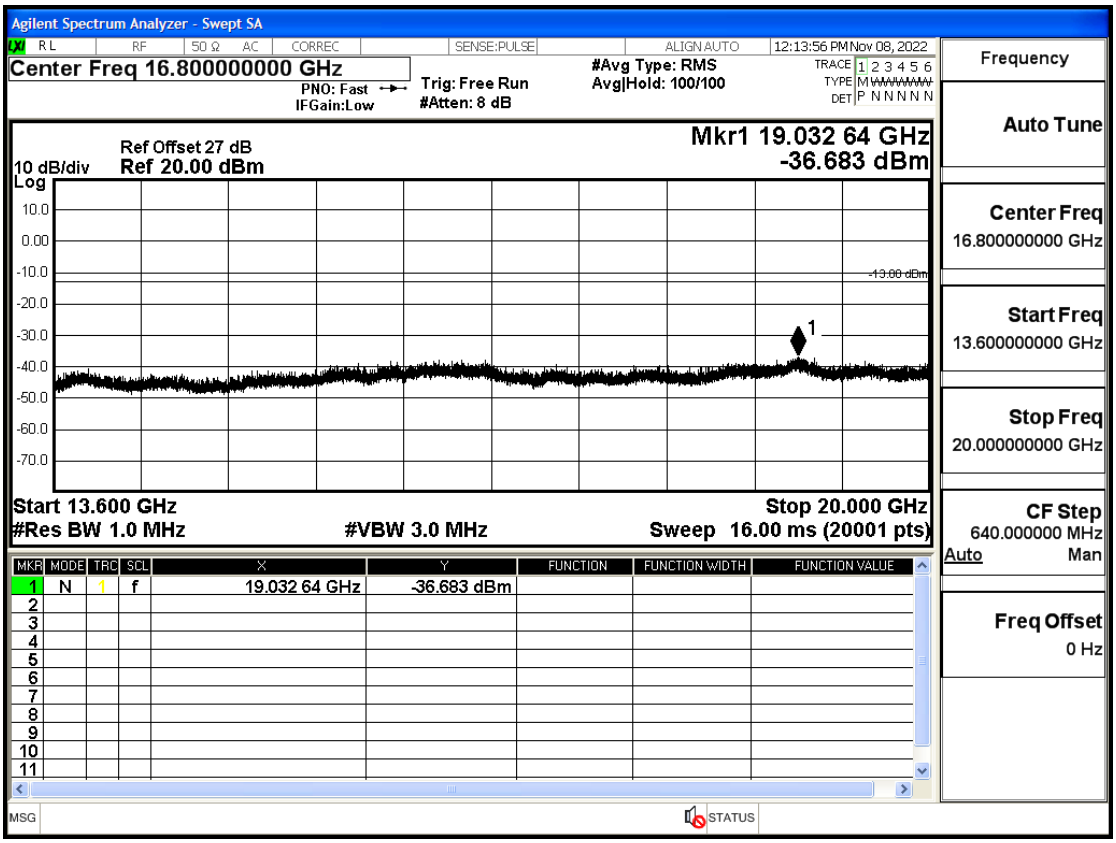
OB4-10-1750-Q16-50#LOW@1GHz-7GHz@Pass



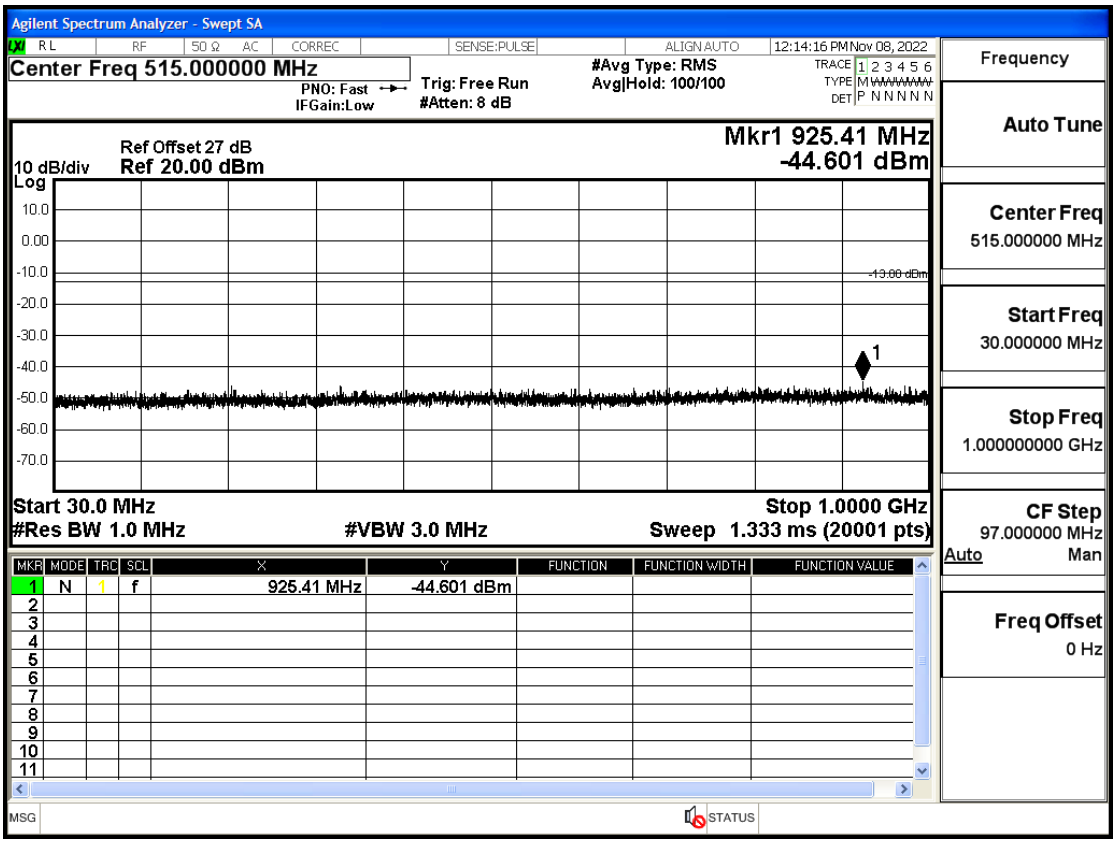
OB4-10-1750-Q16-50#LOW@7GHz-13.6GHz@Pass



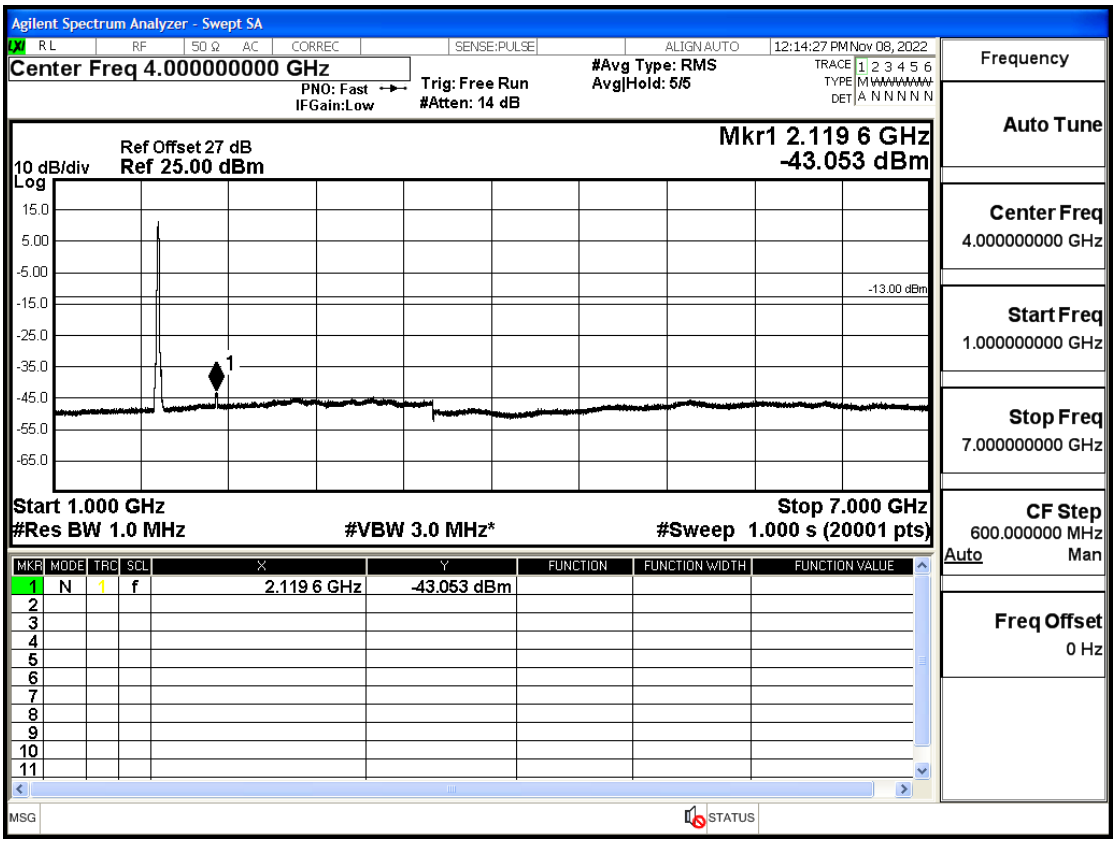
OB4-10-1750-Q16-50#LOW@13.6GHz-20GHz@Pass



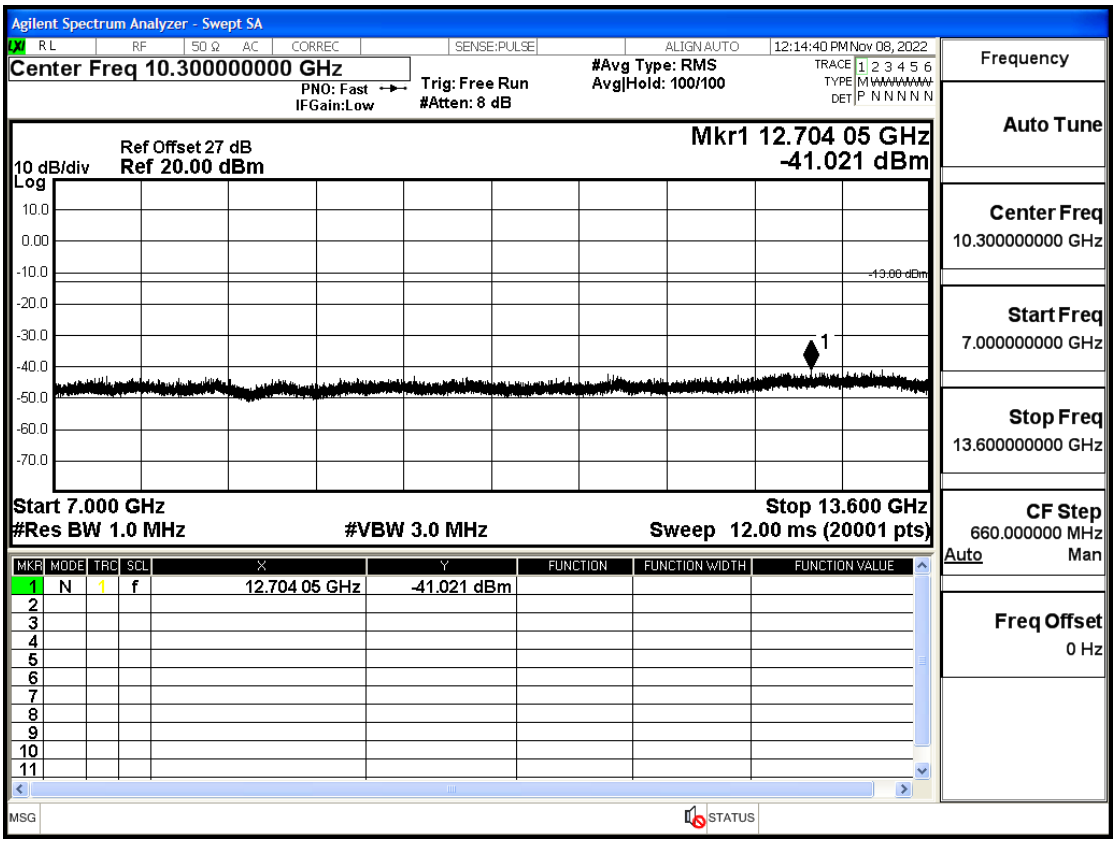
OB4-15-1717.5-Q16-75#LOW@30mHz-1GHz@Pass



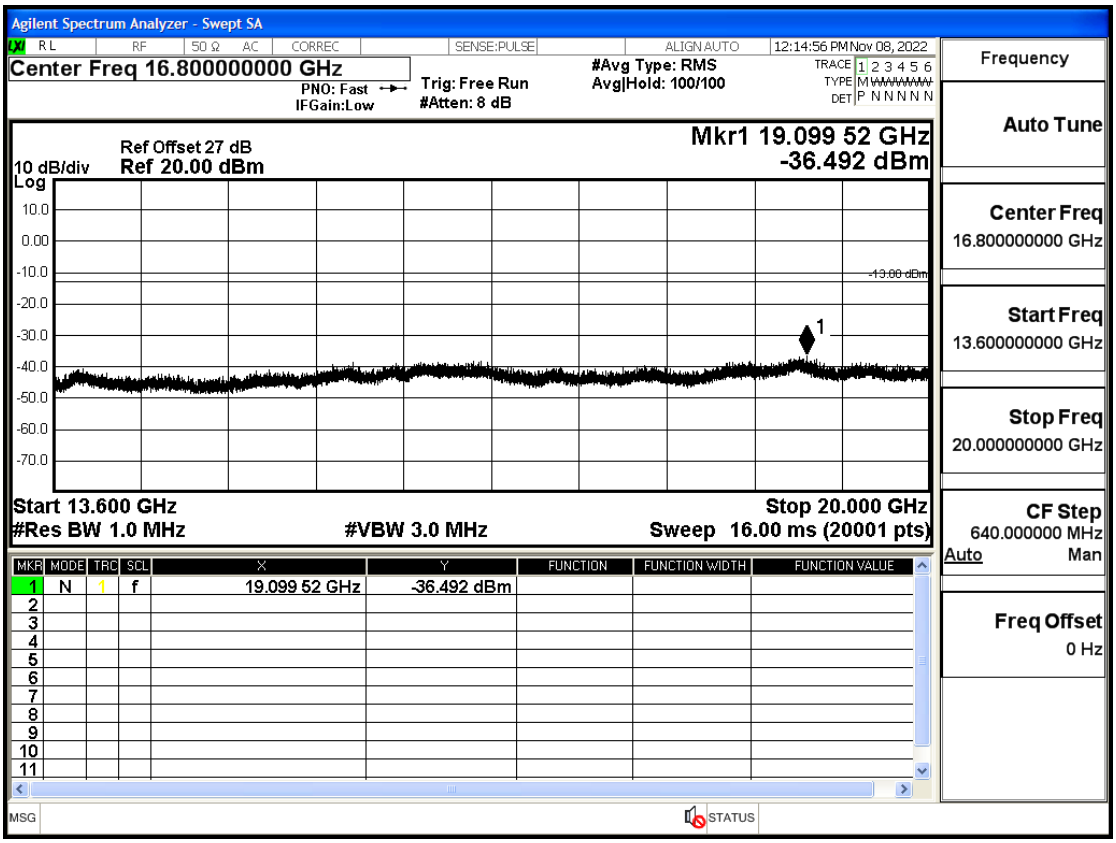
OB4-15-1717.5-Q16-75#LOW@1GHz-7GHz@Pass



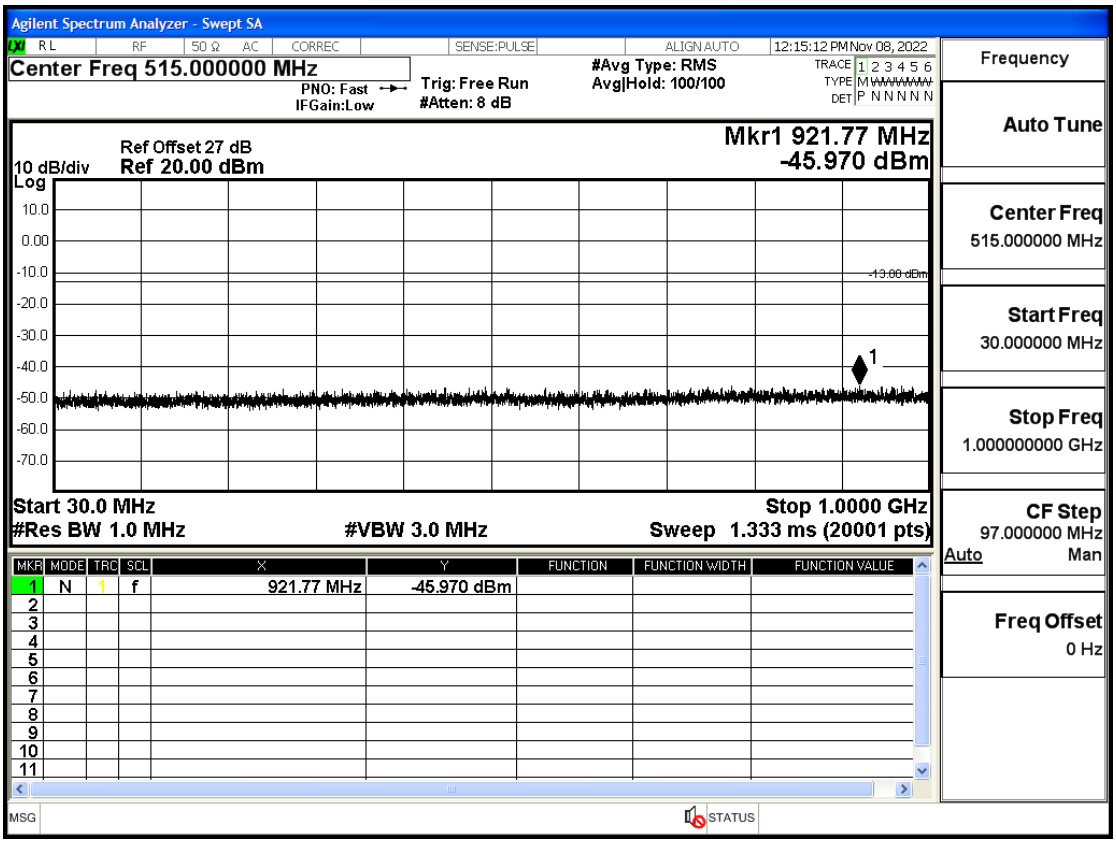
OB4-15-1717.5-Q16-75#LOW@7GHz-13.6GHz@Pass



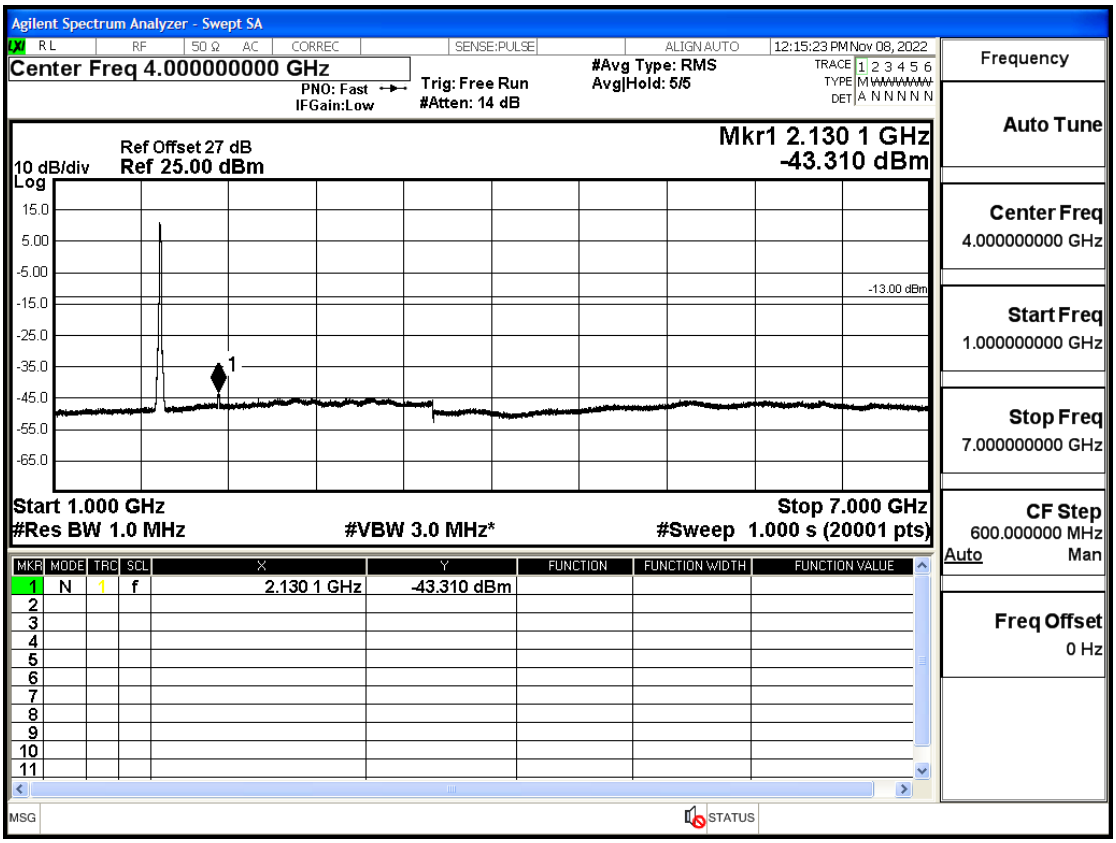
OB4-15-1717.5-Q16-75#LOW@13.6GHz-20GHz@Pass



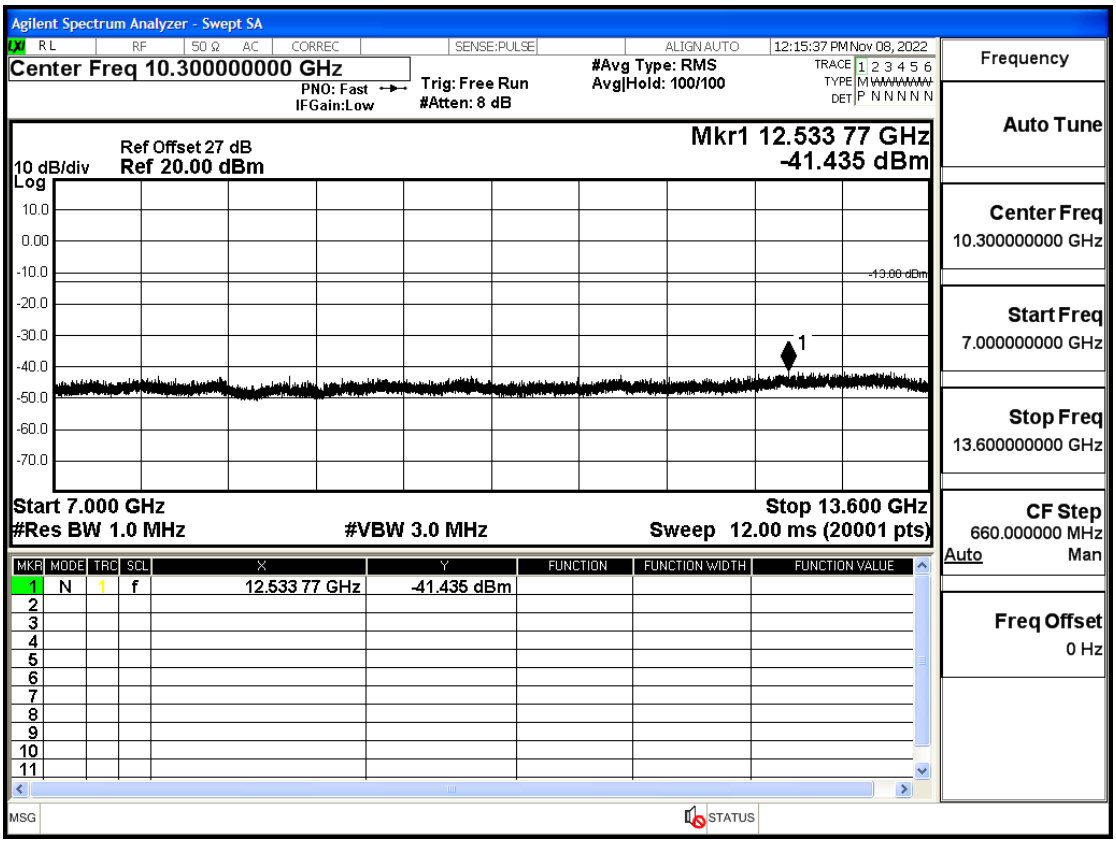
OB4-15-1732.5-Q16-75#LOW@30mHz-1GHz@Pass



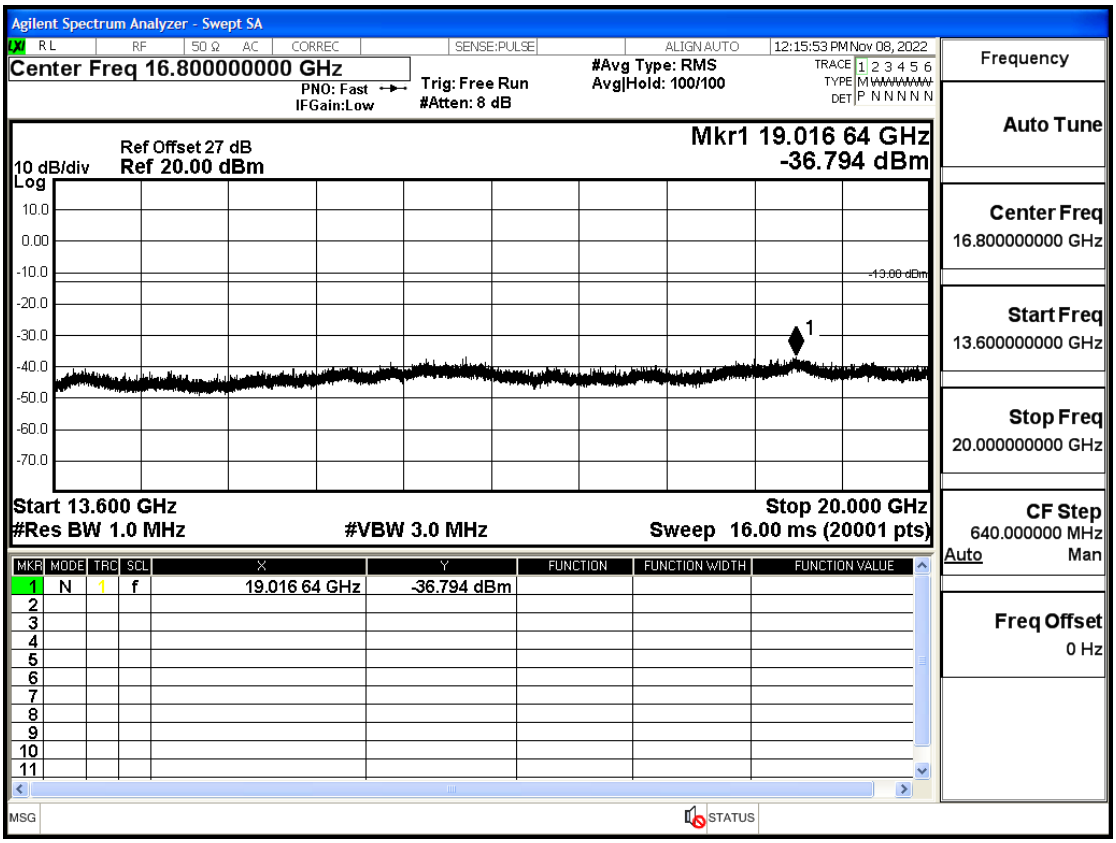
OB4-15-1732.5-Q16-75#LOW@1GHz-7GHz@Pass



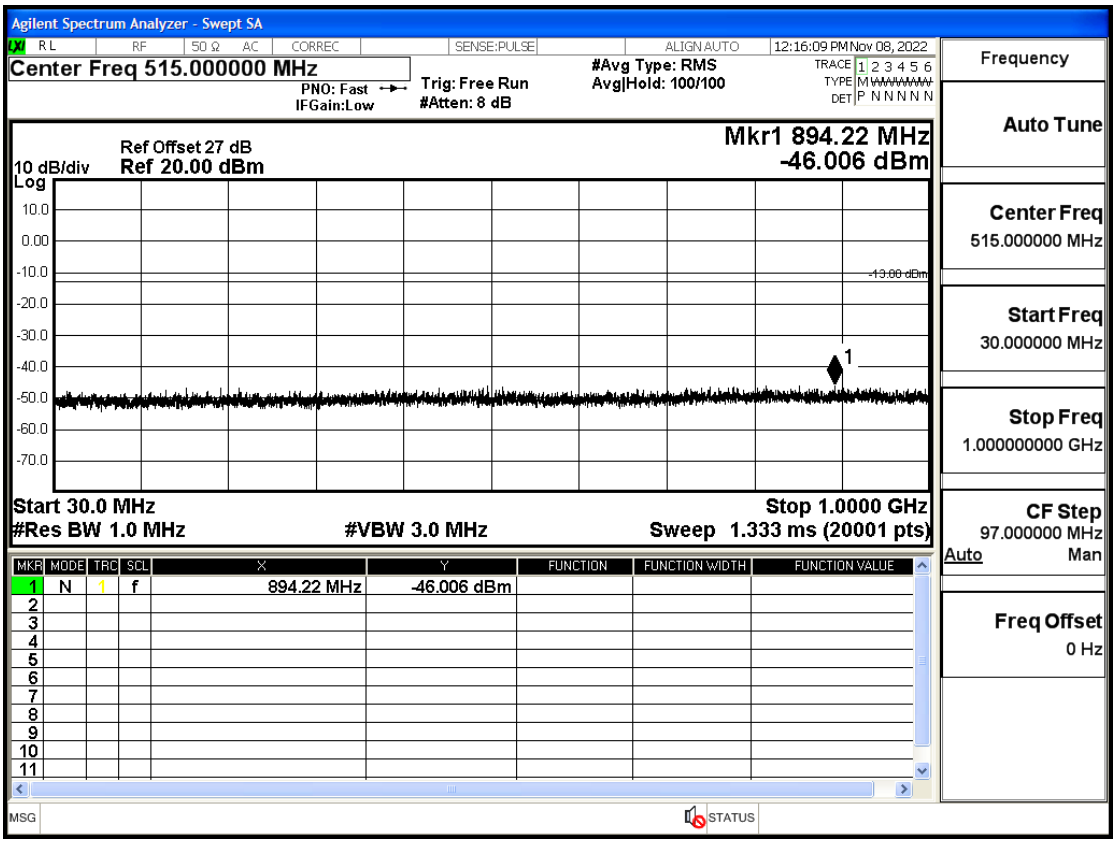
OB4-15-1732.5-Q16-75#LOW@7GHz-13.6GHz@Pass



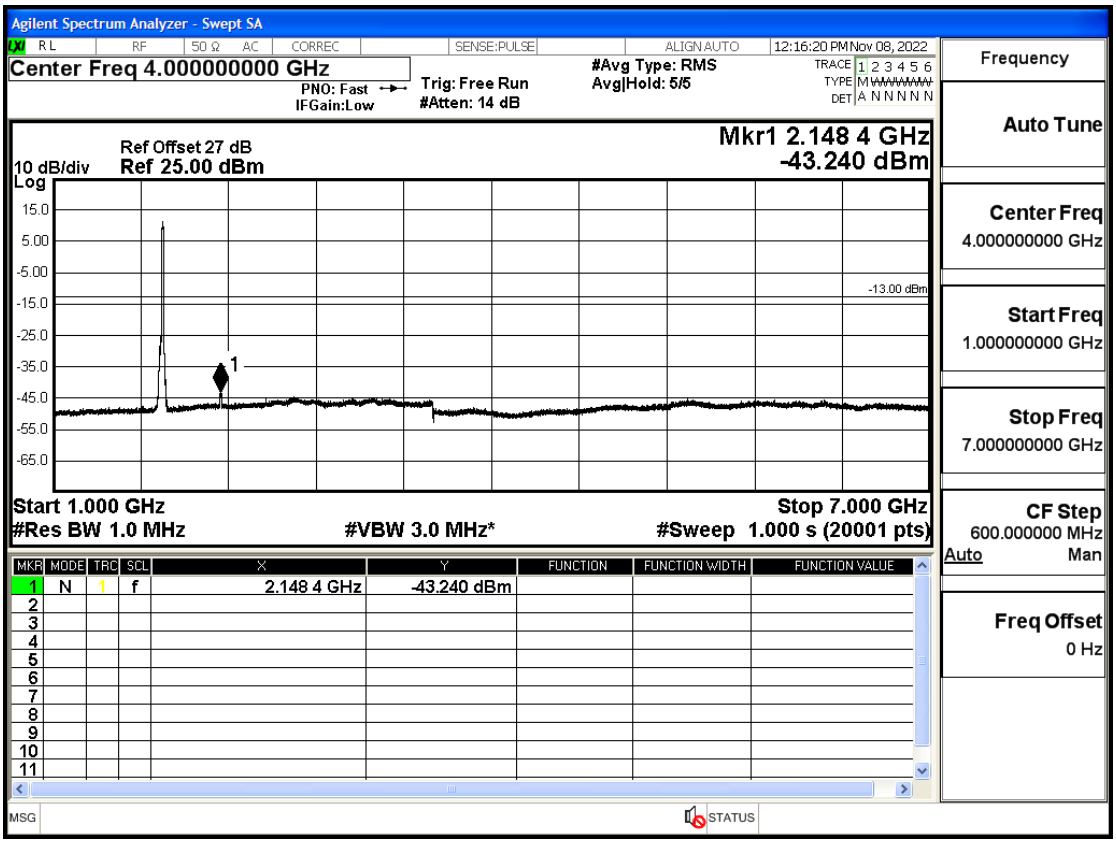
OB4-15-1732.5-Q16-75#LOW@13.6GHz-20GHz@Pass



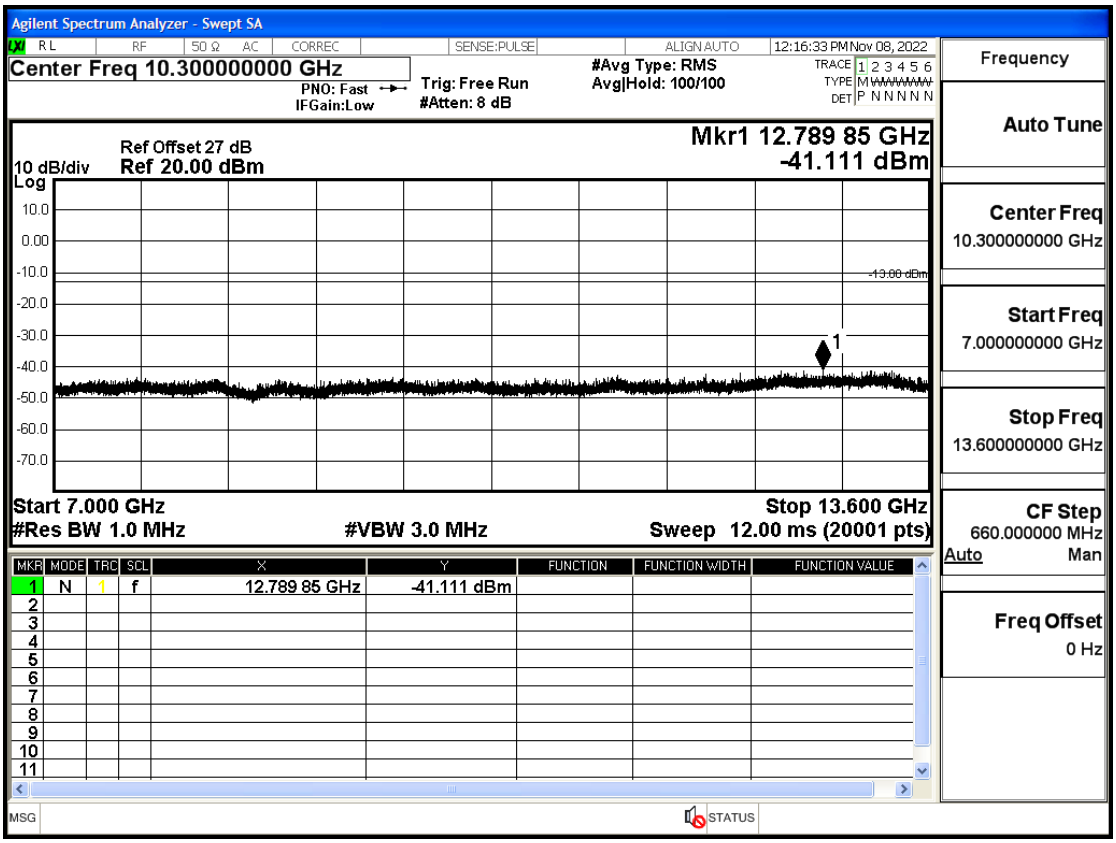
OB4-15-1747.5-Q16-75#LOW@30mHz-1GHz@Pass



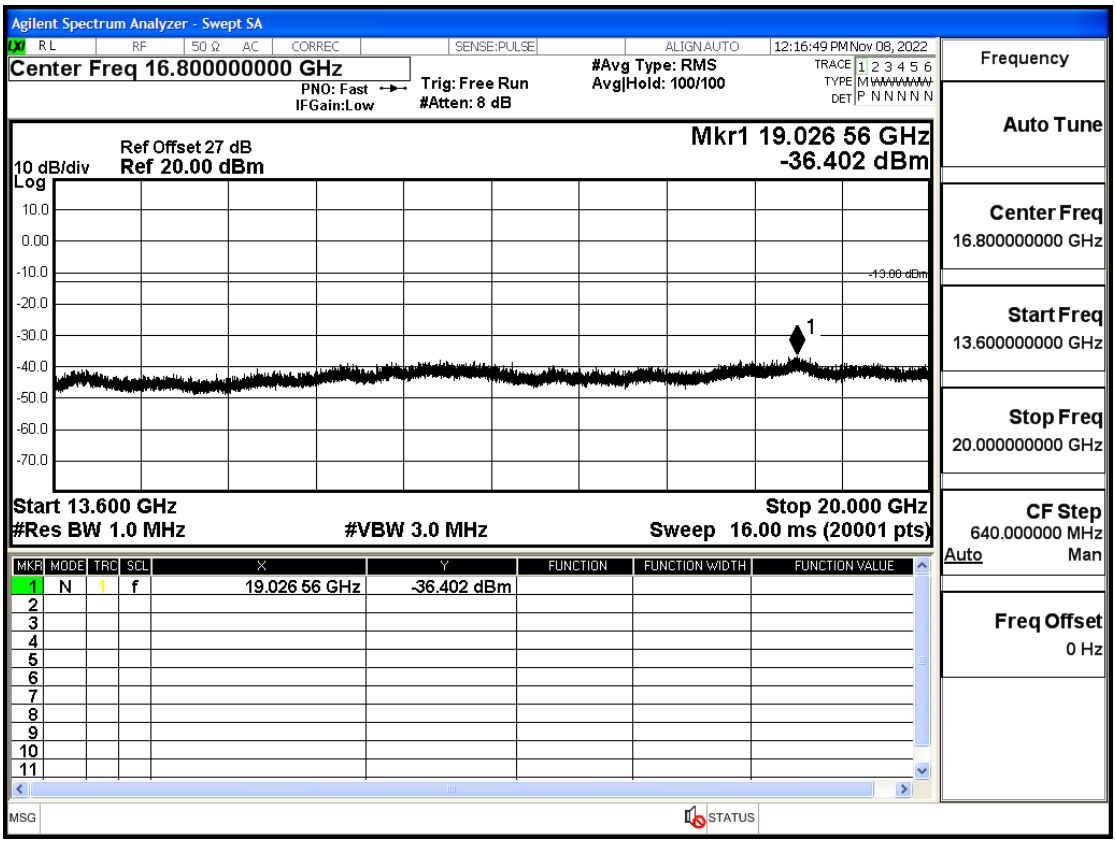
OB4-15-1747.5-Q16-75#LOW@1GHz-7GHz@Pass



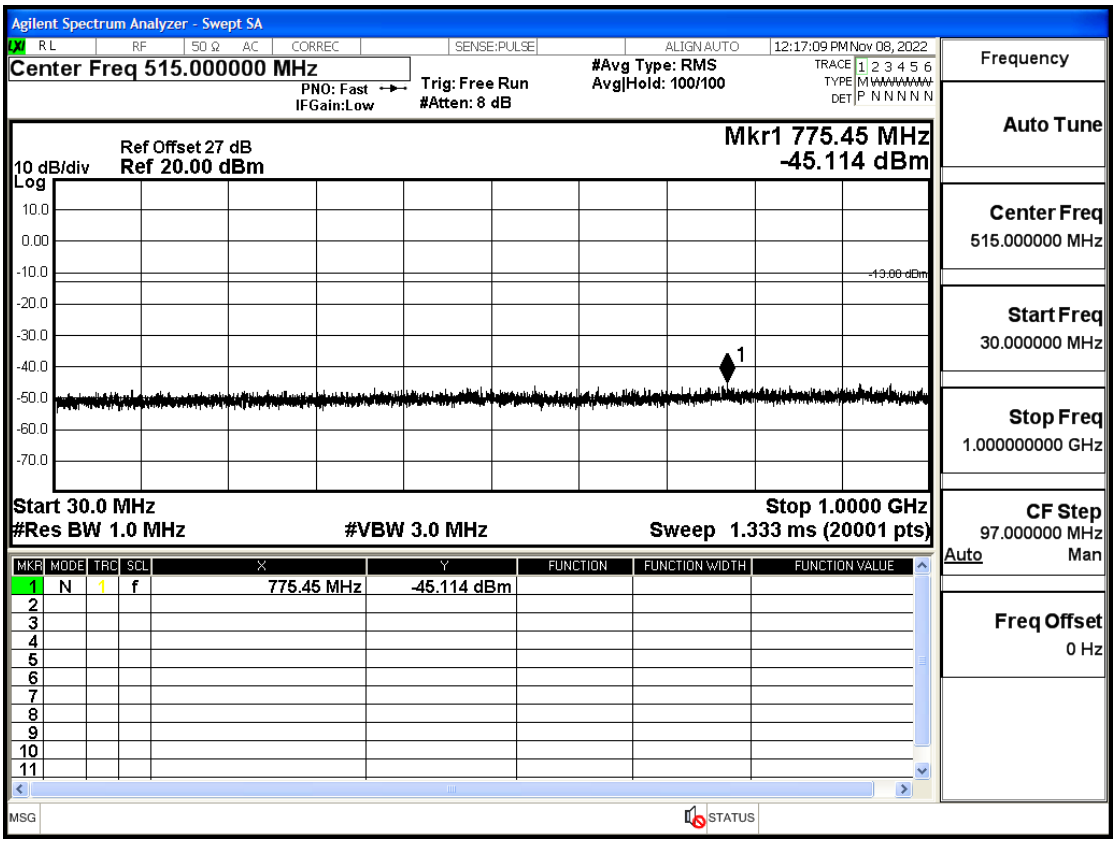
OB4-15-1747.5-Q16-75#LOW@7GHz-13.6GHz@Pass



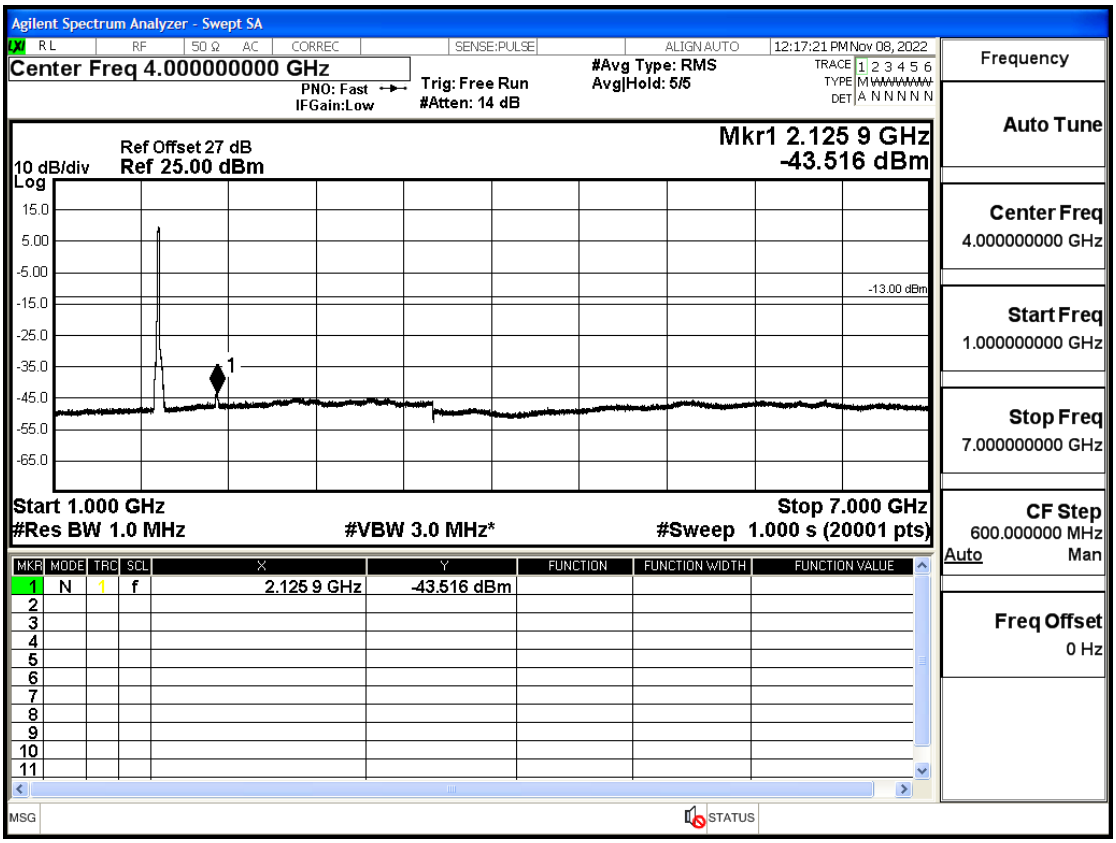
OB4-15-1747.5-Q16-75#LOW@13.6GHz-20GHz@Pass



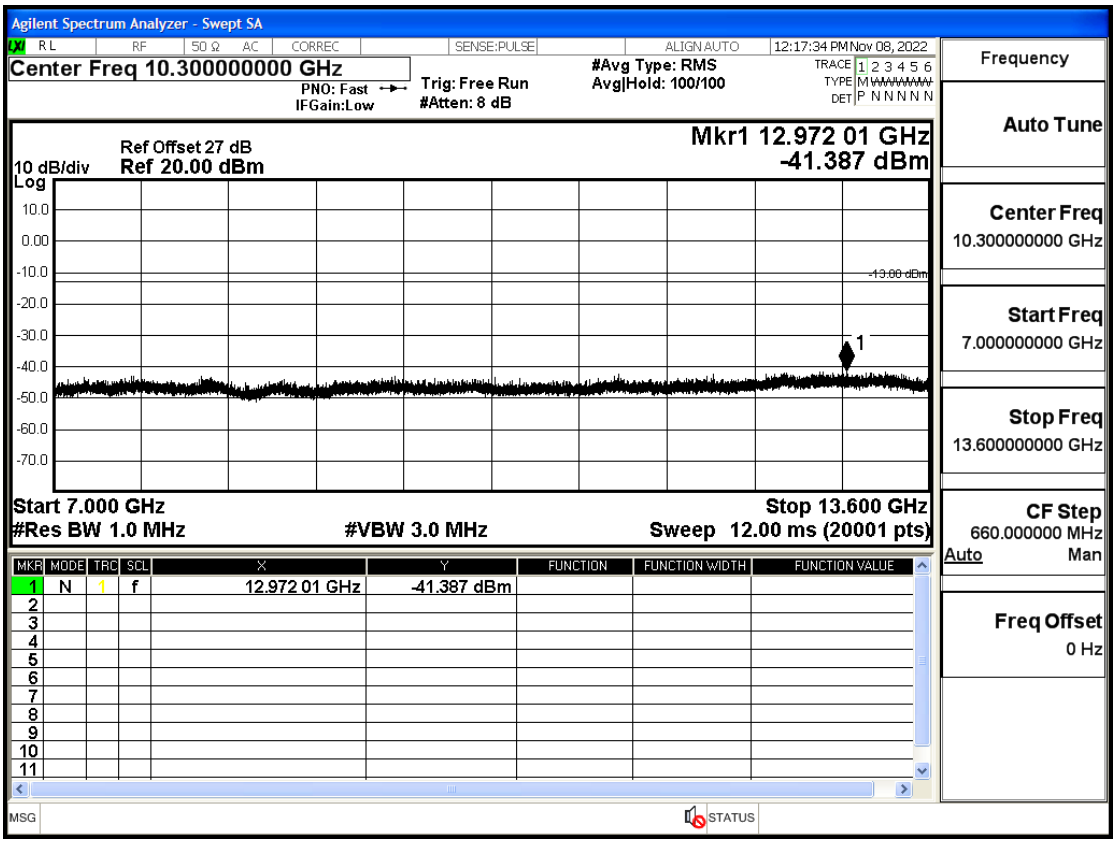
OB4-20-1720-Q16-100#LOW@30mHz-1GHz@Pass



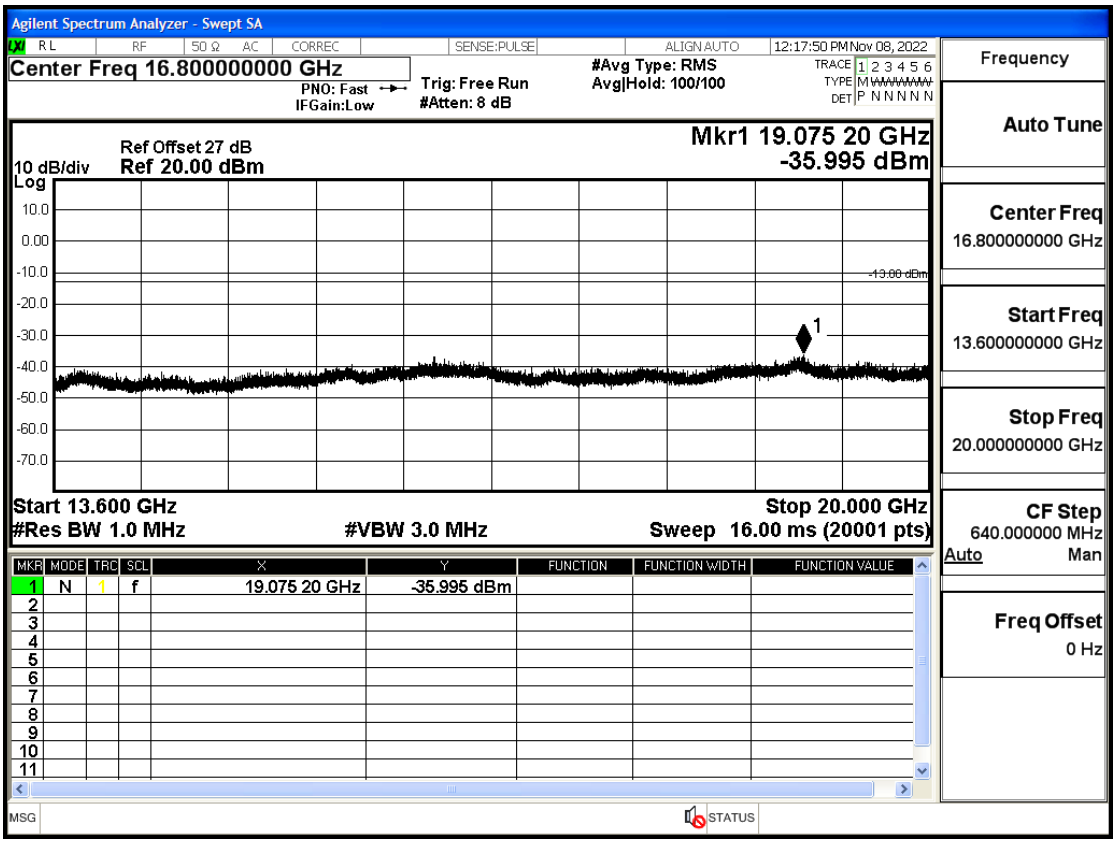
OB4-20-1720-Q16-100#LOW@1GHz-7GHz@Pass



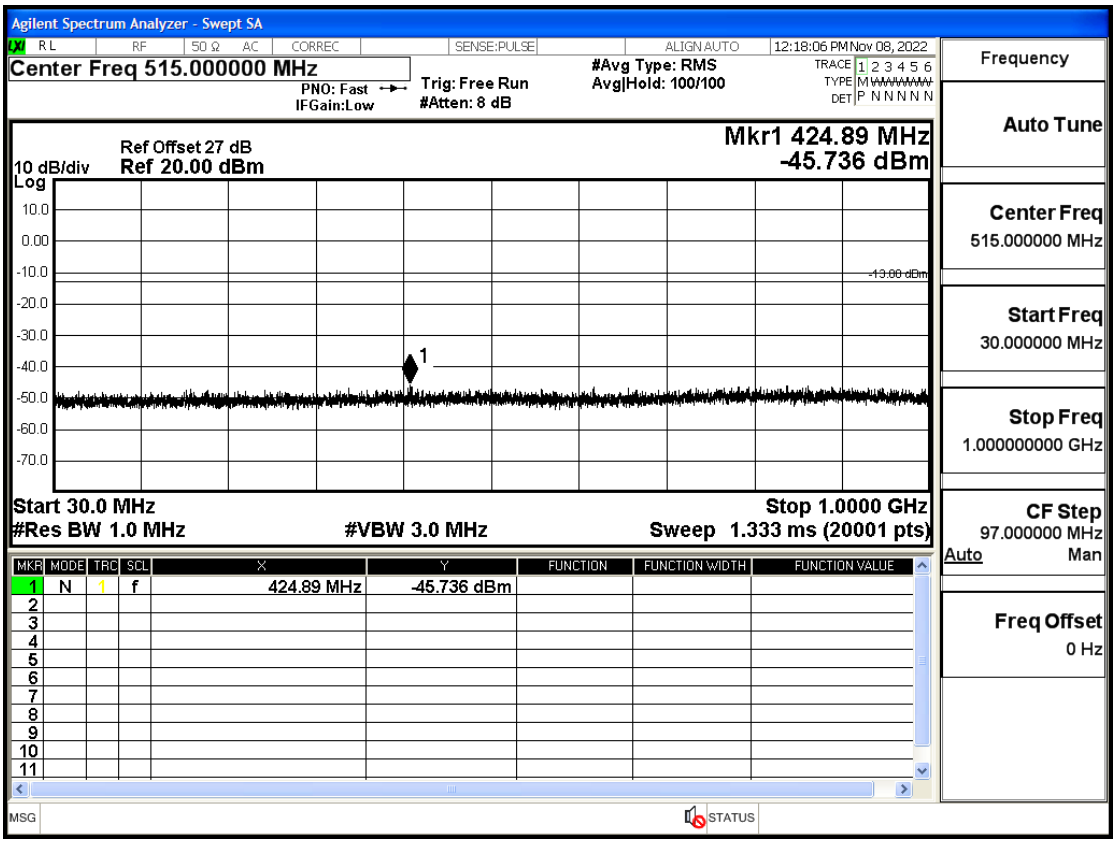
OB4-20-1720-Q16-100#LOW@7GHz-13.6GHz@Pass



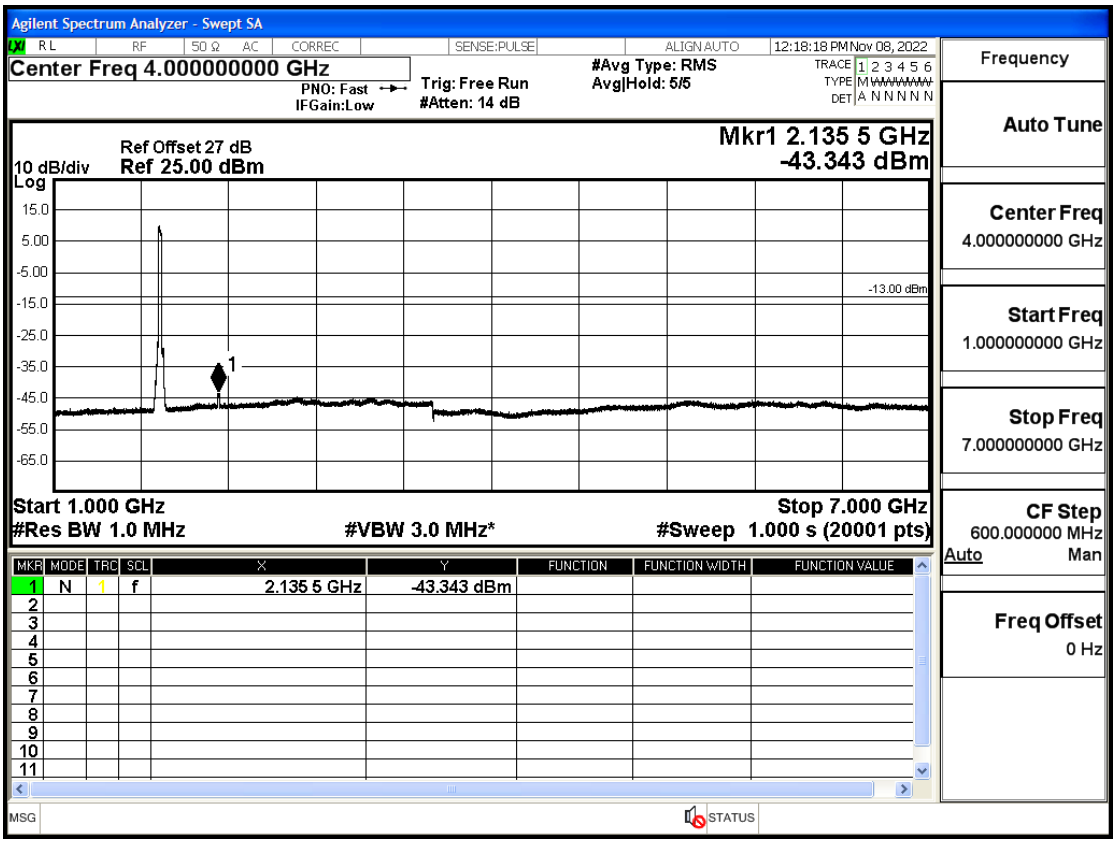
OB4-20-1720-Q16-100#LOW@13.6GHz-20GHz@Pass



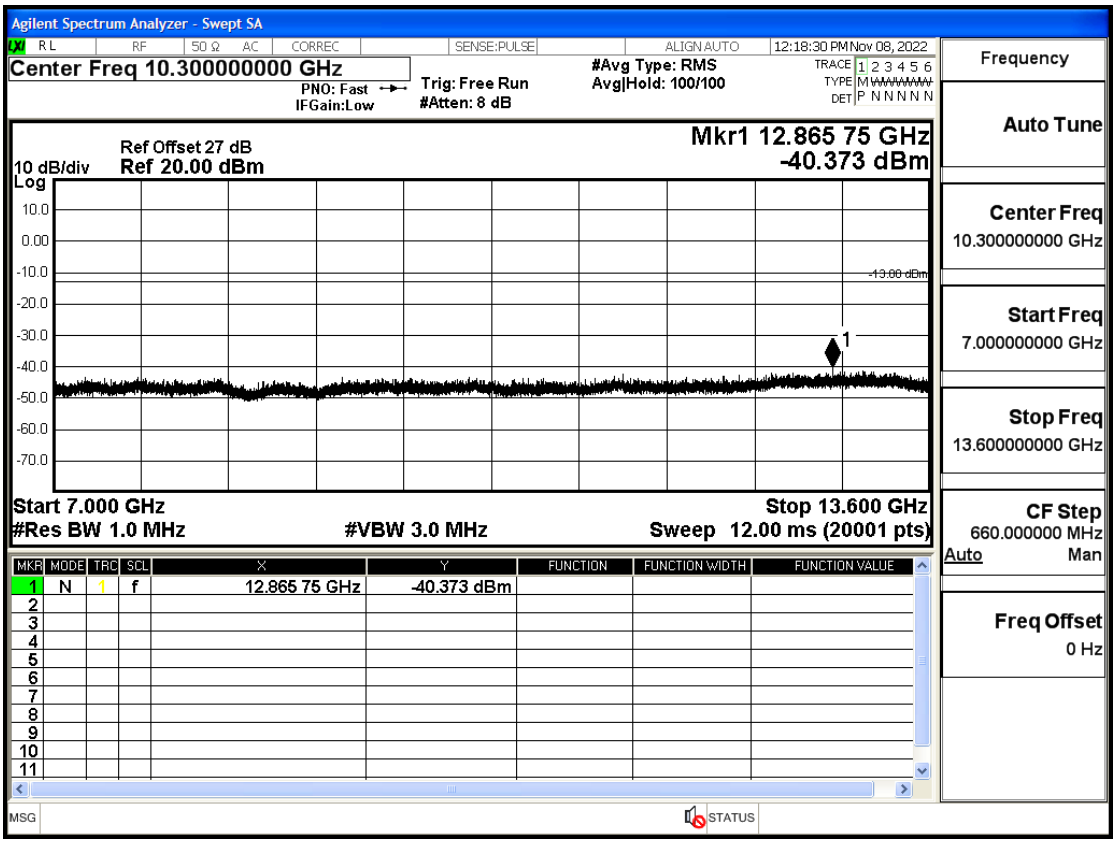
OB4-20-1732.5-Q16-100#LOW@30mHz-1GHz@Pass



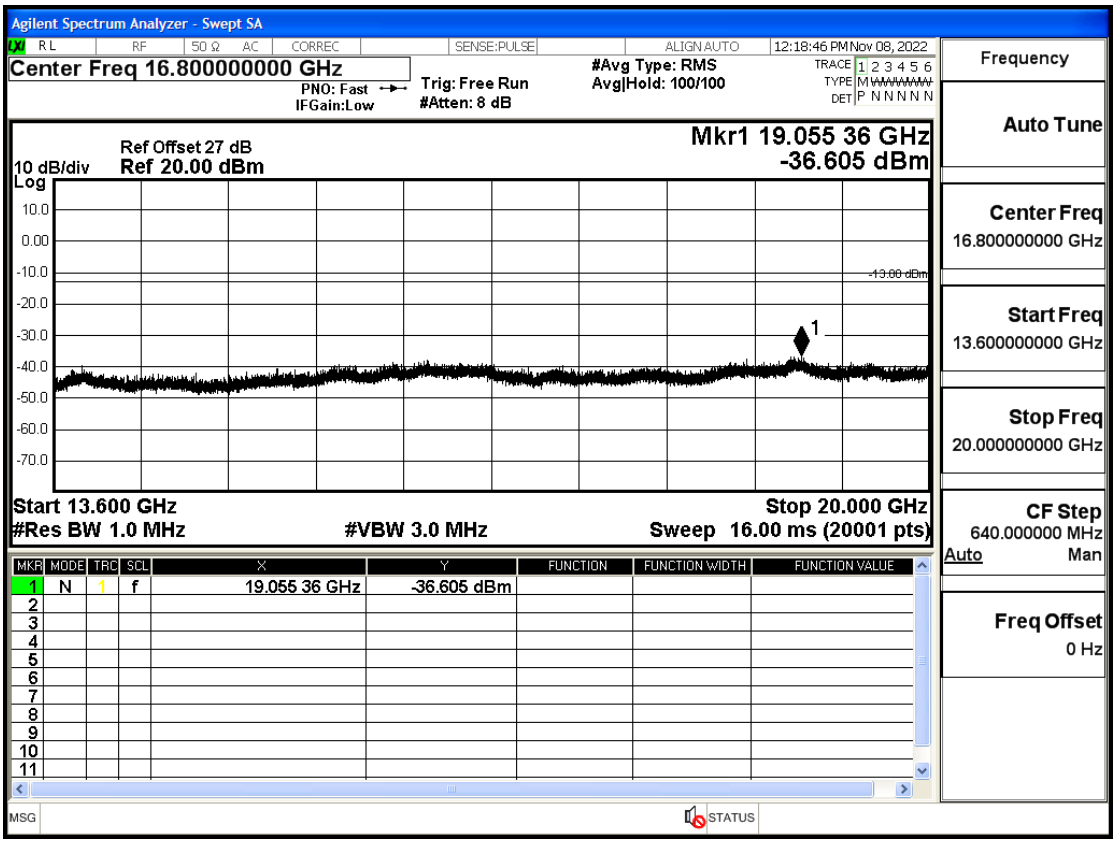
OB4-20-1732.5-Q16-100#LOW@1GHz-7GHz@Pass



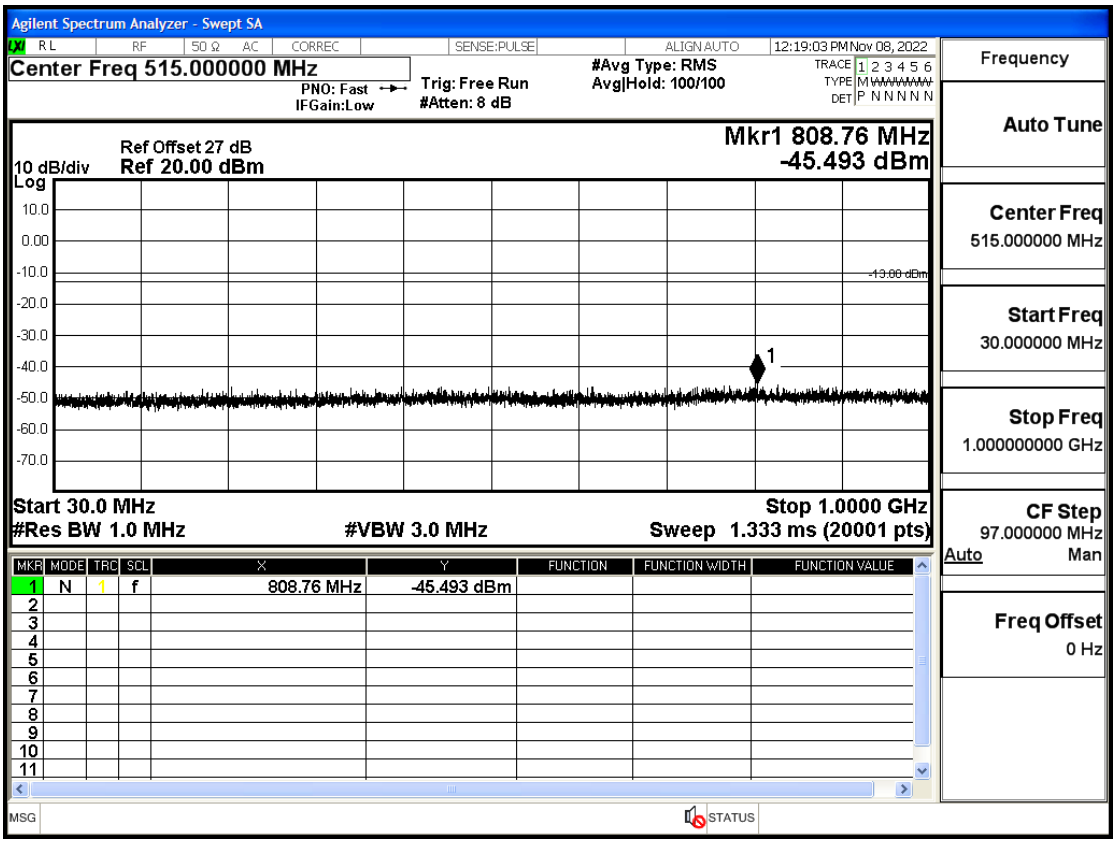
OB4-20-1732.5-Q16-100#LOW@7GHz-13.6GHz@Pass



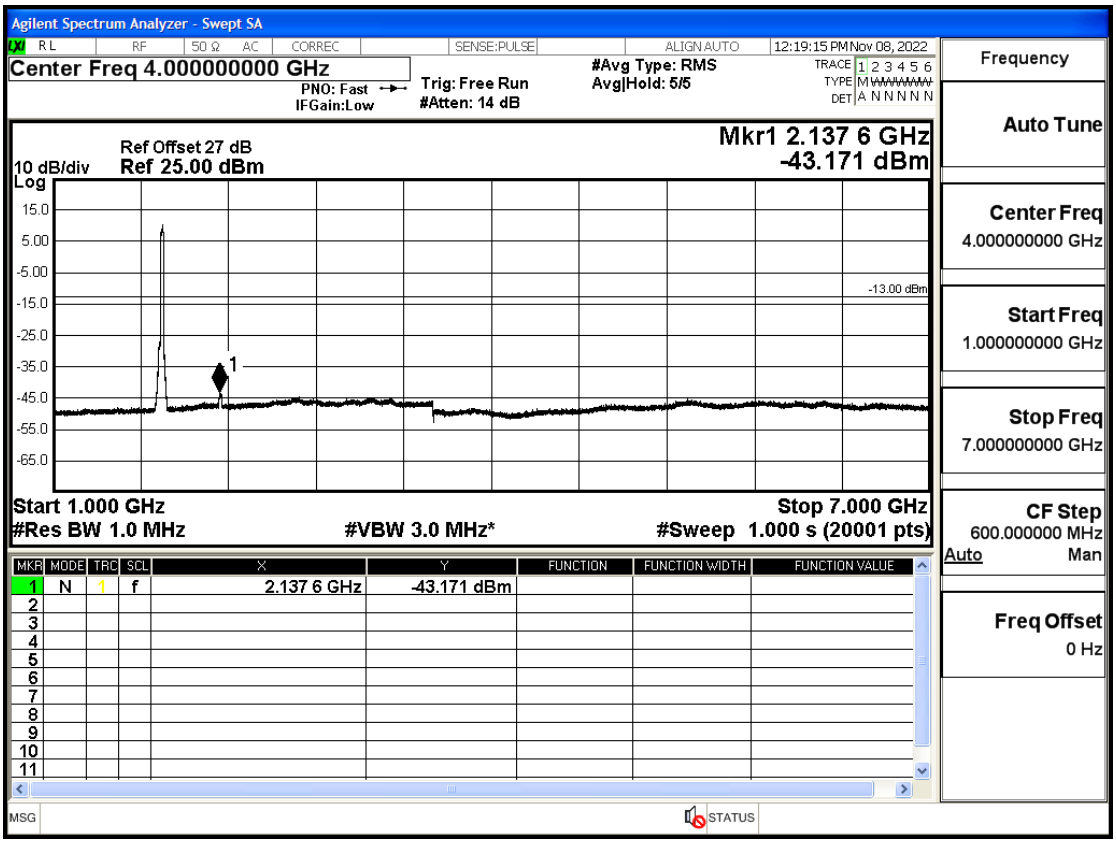
OB4-20-1732.5-Q16-100#LOW@13.6GHz-20GHz@Pass



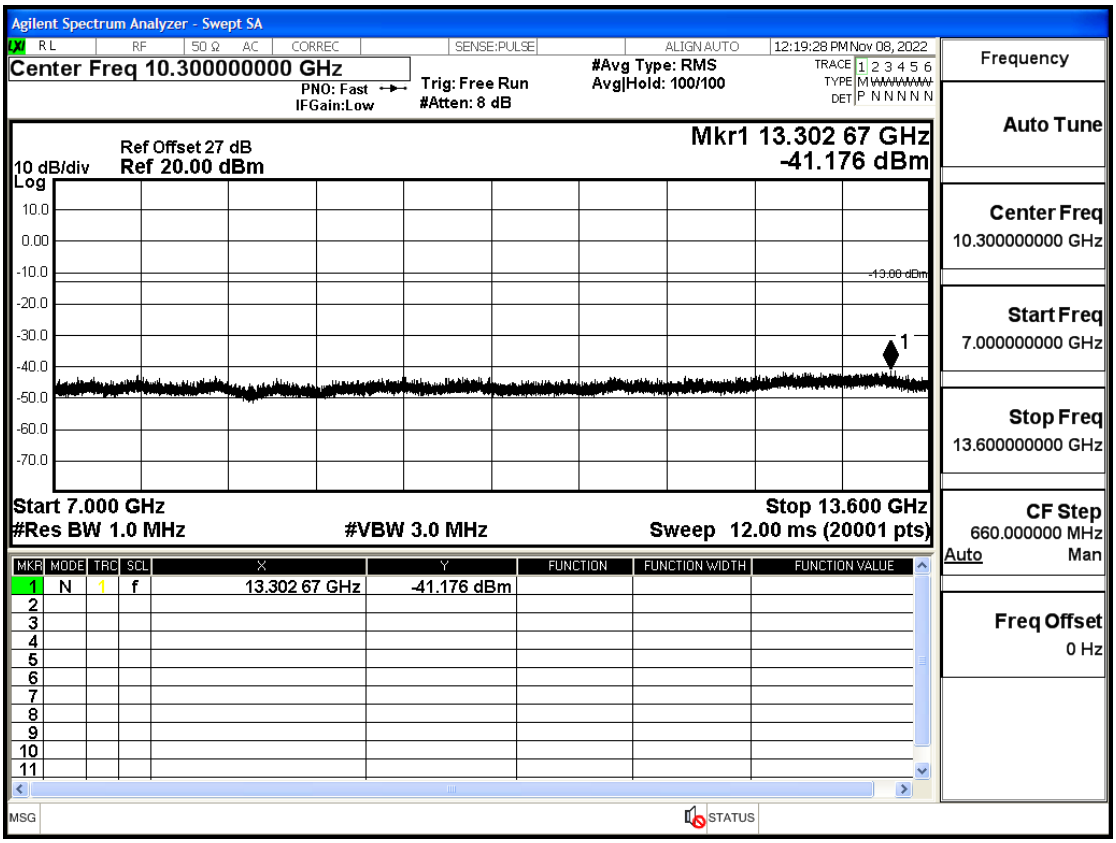
OB4-20-1745-Q16-100#LOW@30mHz-1GHz@Pass



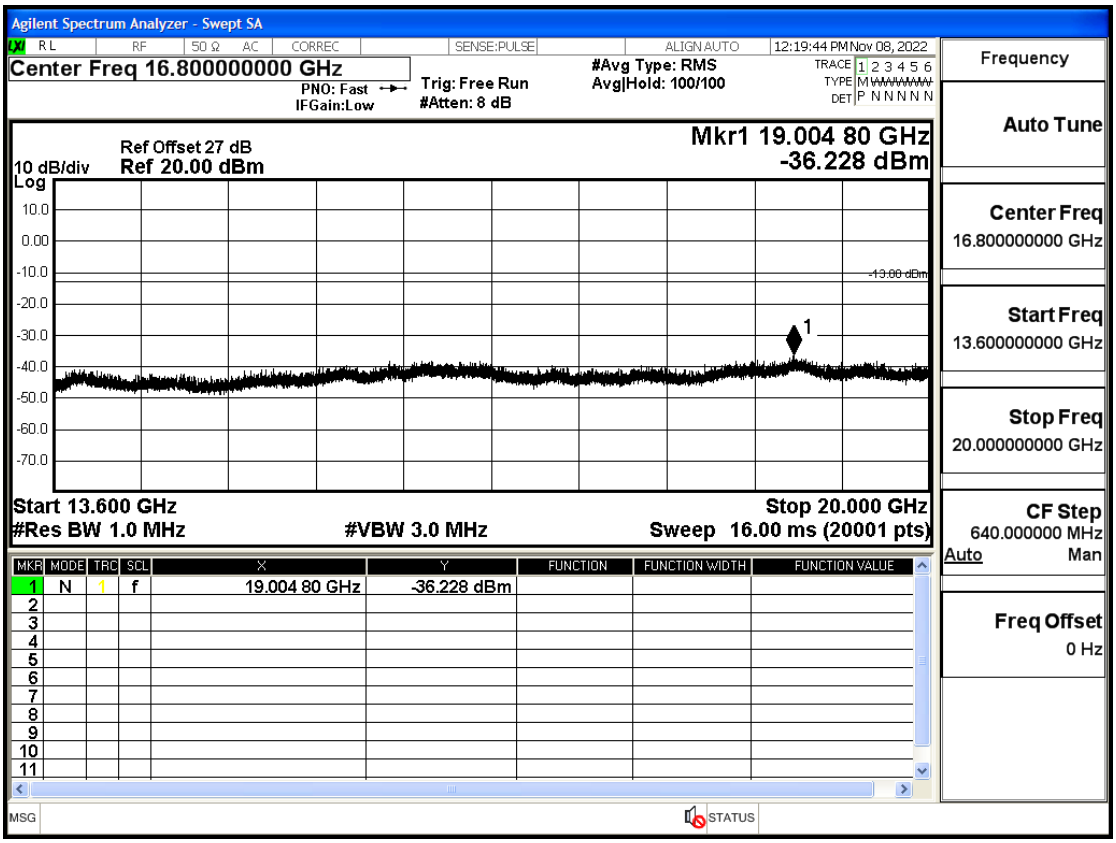
OB4-20-1745-Q16-100#LOW@1GHz-7GHz@Pass



OB4-20-1745-Q16-100#LOW@7GHz-13.6GHz@Pass



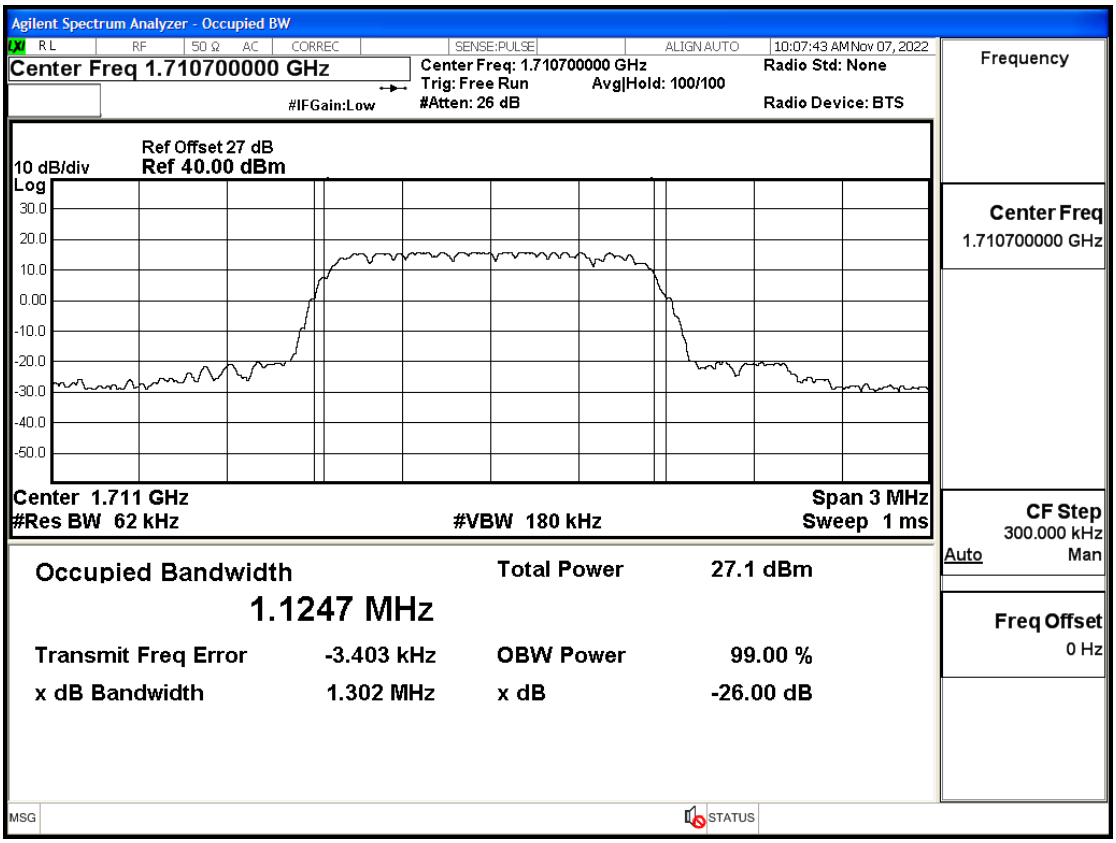
OB4-20-1745-Q16-100#LOW@13.6GHz-20GHz@Pass



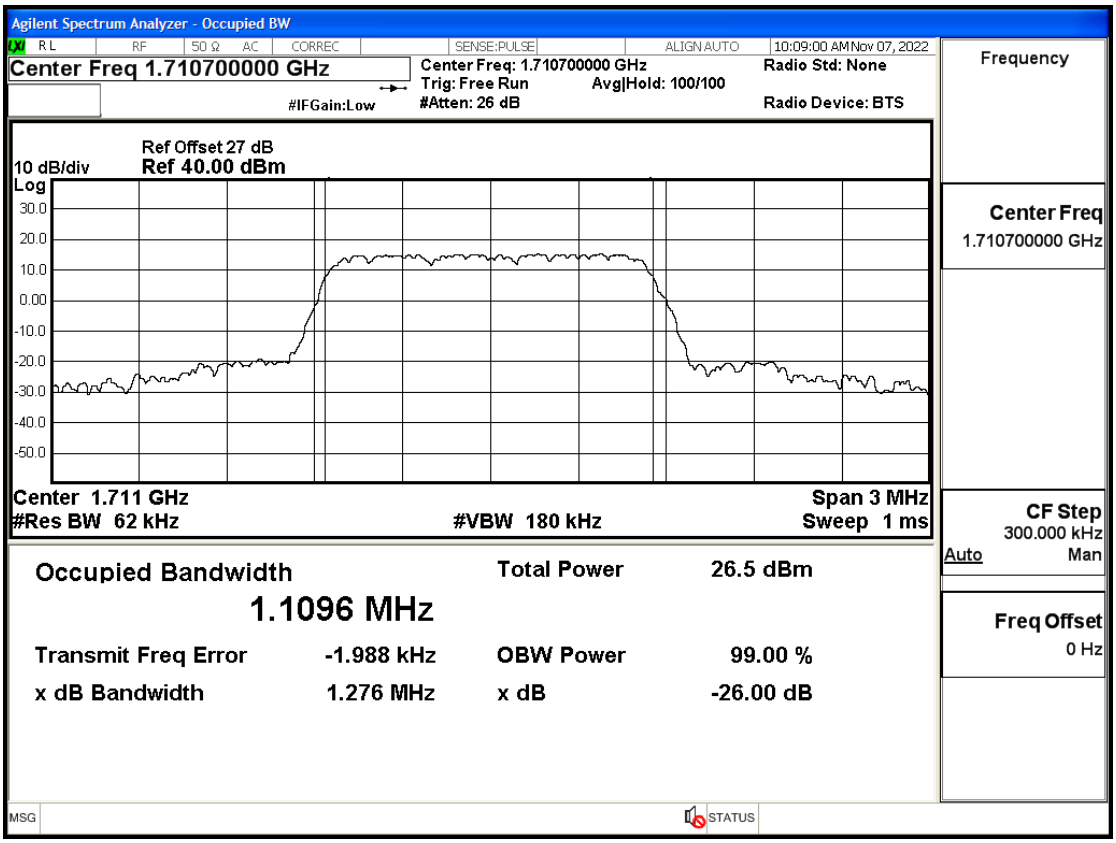
Emission bandwidth and OBW

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	1124.7	1302	No limit
Band4	1.4	1710.7	16QAM	6	LOW	1109.6	1276	No limit
Band4	1.4	1732.5	QPSK	6	LOW	1119.4	1287	No limit
Band4	1.4	1732.5	16QAM	6	LOW	1110.7	1287	No limit
Band4	1.4	1754.3	QPSK	6	LOW	1119.9	1286	No limit
Band4	1.4	1754.3	16QAM	6	LOW	1123.9	1297	No limit
Band4	3	1711.5	QPSK	15	LOW	2777.3	3102	No limit
Band4	3	1711.5	16QAM	15	LOW	2767.4	3112	No limit
Band4	3	1732.5	QPSK	15	LOW	2752.9	3081	No limit
Band4	3	1732.5	16QAM	15	LOW	2772	3129	No limit
Band4	3	1753.5	QPSK	15	LOW	2767	3111	No limit
Band4	3	1753.5	16QAM	15	LOW	2781.2	3117	No limit
Band4	5	1712.5	QPSK	25	LOW	4557.8	5050	No limit
Band4	5	1712.5	16QAM	25	LOW	4569.8	5083	No limit
Band4	5	1732.5	QPSK	25	LOW	4573.2	5068	No limit
Band4	5	1732.5	16QAM	25	LOW	4582.9	5079	No limit
Band4	5	1752.5	QPSK	25	LOW	4565.6	5065	No limit
Band4	5	1752.5	16QAM	25	LOW	4547.8	5094	No limit
Band4	10	1715	QPSK	50	LOW	9087.6	9991	No limit
Band4	10	1715	16QAM	50	LOW	9090.5	10070	No limit
Band4	10	1732.5	QPSK	50	LOW	9108.7	10010	No limit
Band4	10	1732.5	16QAM	50	LOW	9103.4	10050	No limit
Band4	10	1750	QPSK	50	LOW	9113	10020	No limit
Band4	10	1750	16QAM	50	LOW	9073.8	10040	No limit
Band4	15	1717.5	QPSK	75	LOW	13650	15270	No limit
Band4	15	1717.5	16QAM	75	LOW	13642	15100	No limit
Band4	15	1732.5	QPSK	75	LOW	13652	15150	No limit
Band4	15	1732.5	16QAM	75	LOW	13631	14990	No limit
Band4	15	1747.5	QPSK	75	LOW	13711	15010	No limit
Band4	15	1747.5	16QAM	75	LOW	13740	15200	No limit
Band4	20	1720	QPSK	100	LOW	18158	19860	No limit
Band4	20	1720	16QAM	100	LOW	18116	19840	No limit
Band4	20	1732.5	QPSK	100	LOW	18177	20090	No limit
Band4	20	1732.5	16QAM	100	LOW	18153	20100	No limit
Band4	20	1745	QPSK	100	LOW	18359	20120	No limit
Band4	20	1745	16QAM	100	LOW	18350	20150	No limit

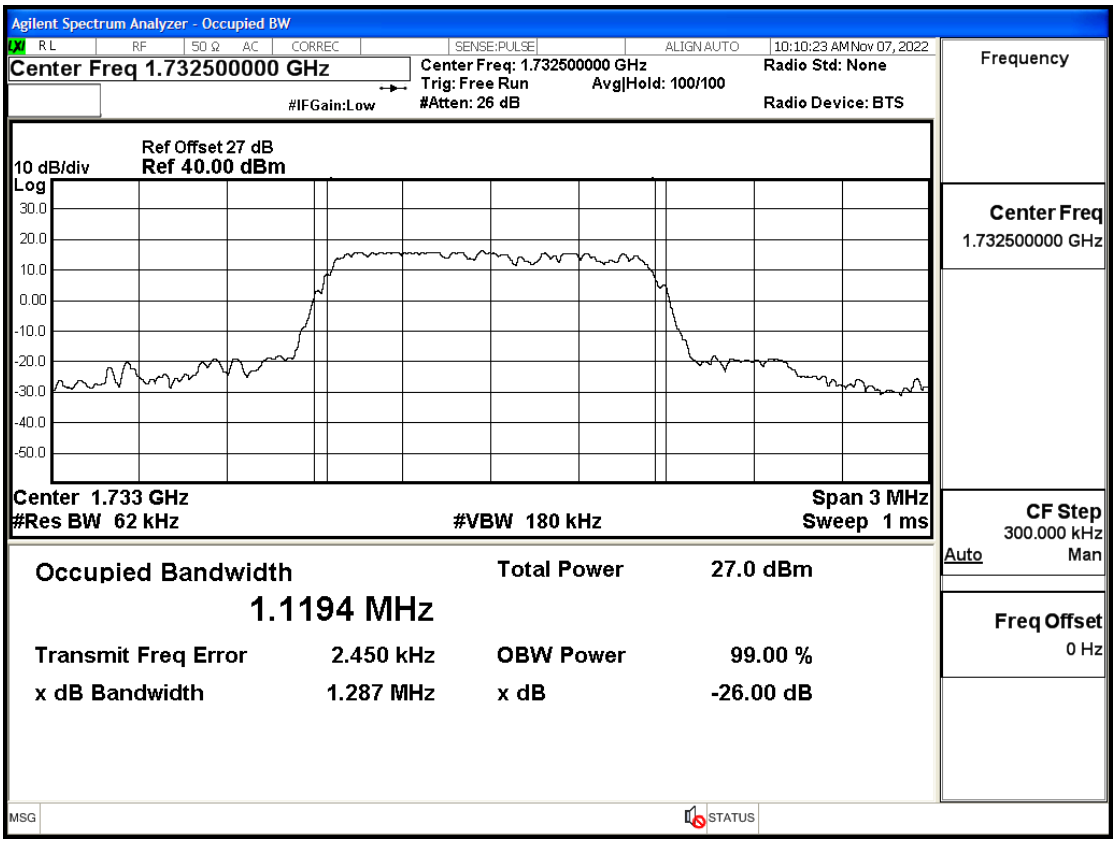
Band4-1.4-1710.7-QPSK-6#LOW@26dB and 99PCT Bandwidth



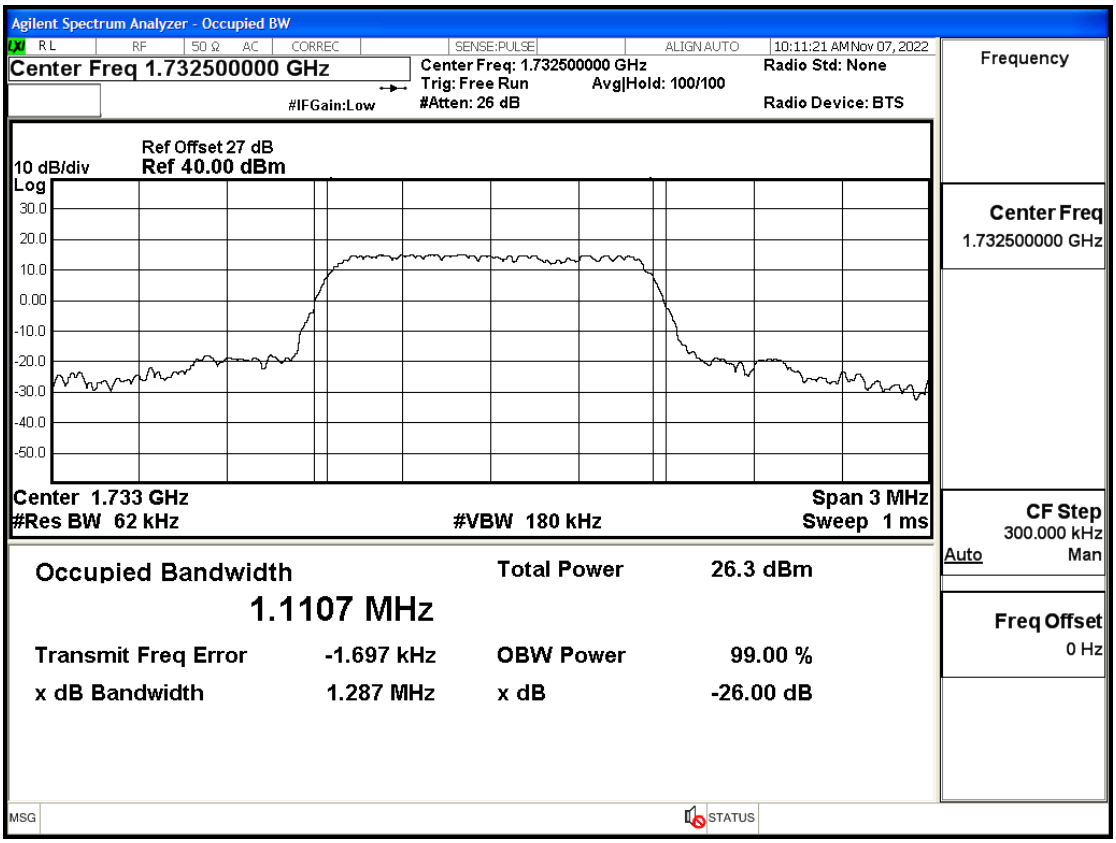
Band4-1.4-1710.7-16QAM-6#LOW@26dB and 99PCT Bandwidth



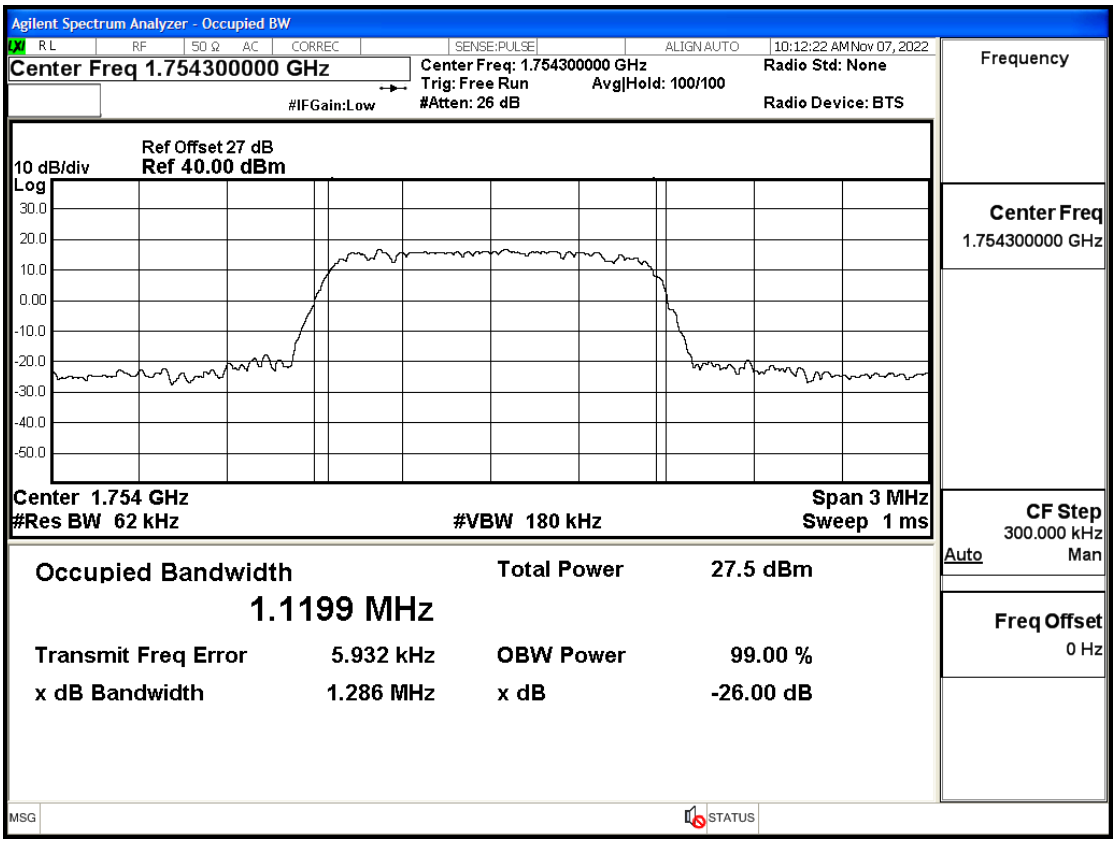
Band4-1.4-1732.5-QPSK-6#LOW@26dB and 99PCT Bandwidth



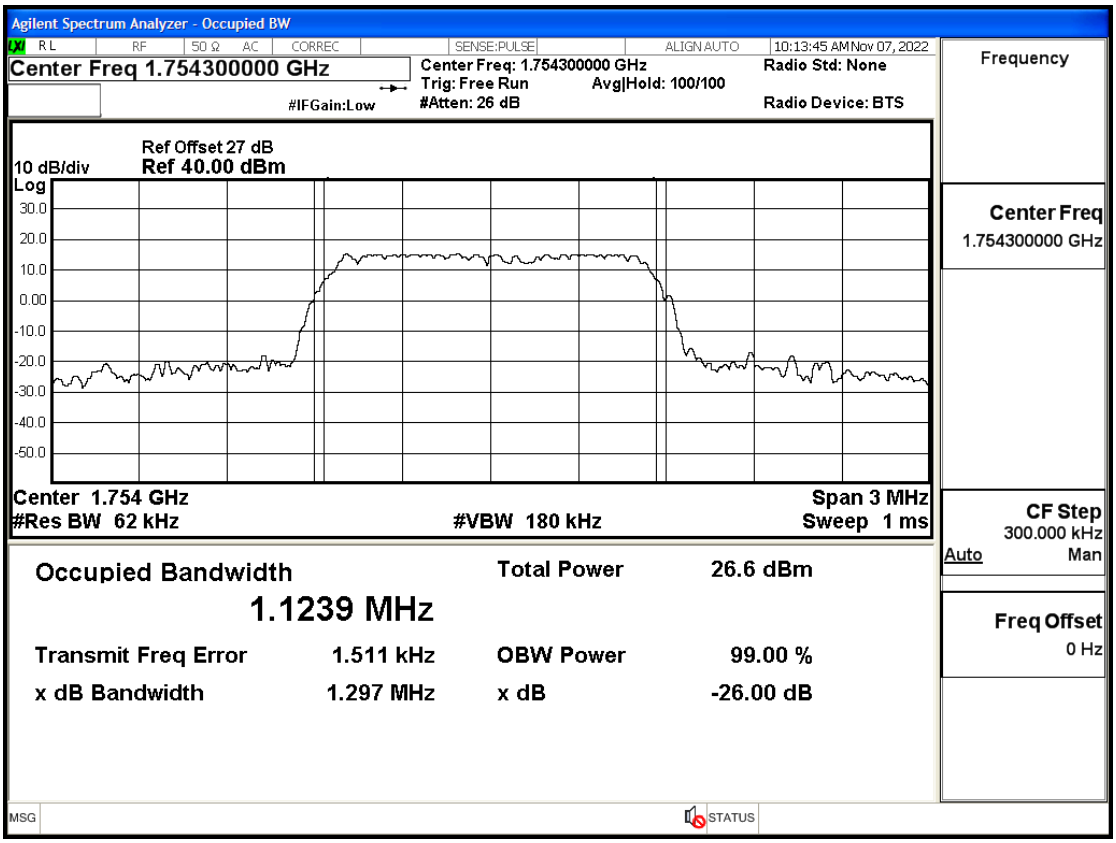
Band4-1.4-1732.5-16QAM-6#LOW@26dB and 99PCT Bandwidth



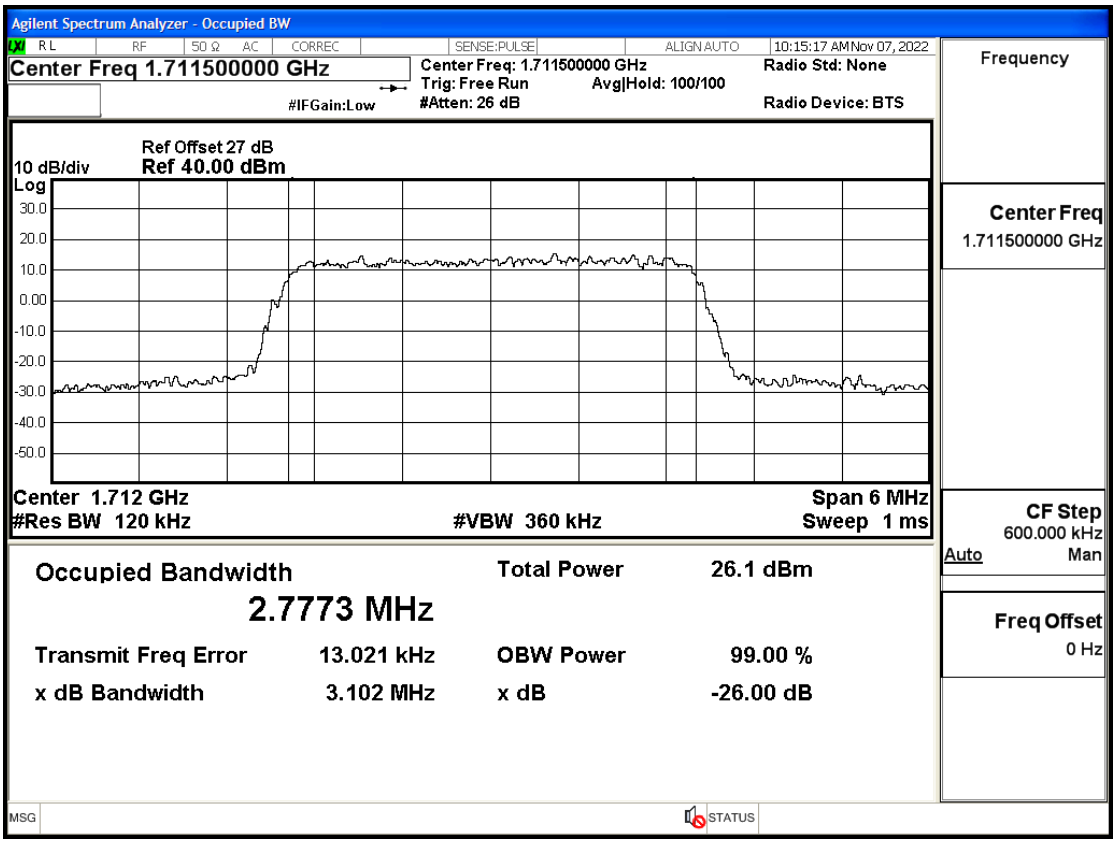
Band4-1.4-1754.3-QPSK-6#LOW@26dB and 99PCT Bandwidth



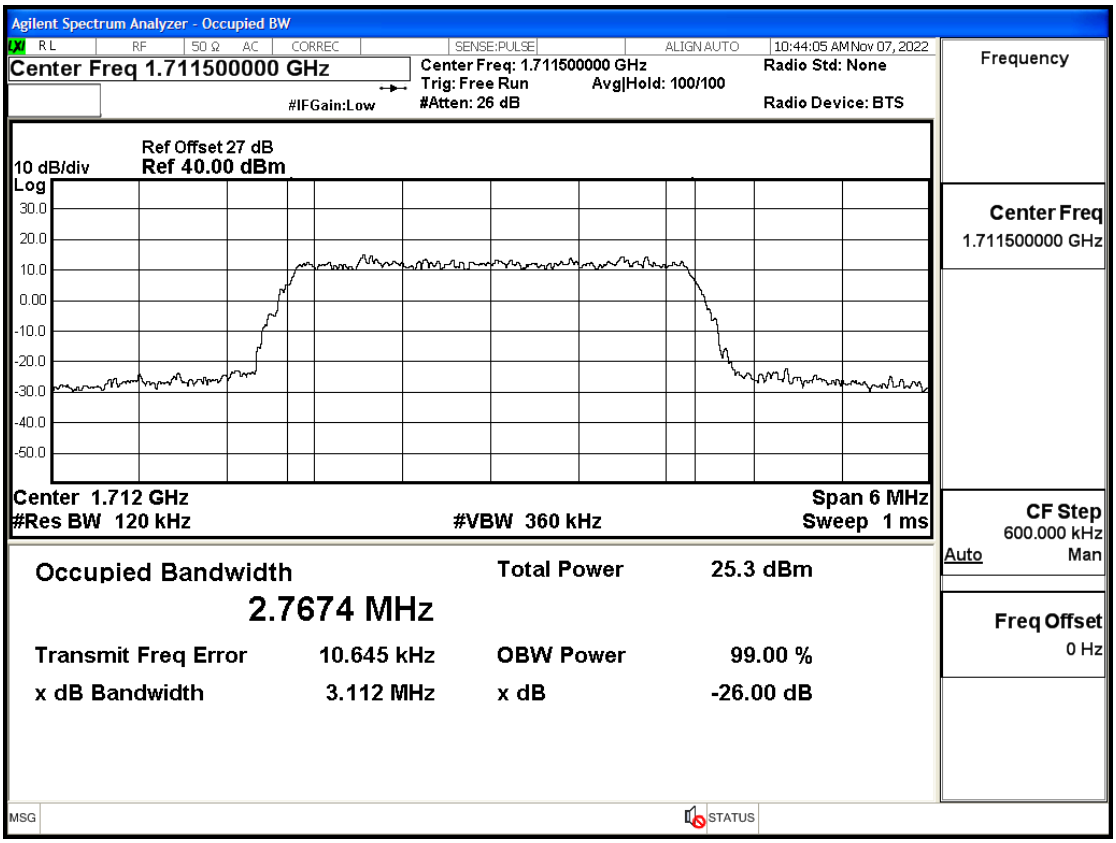
Band4-1.4-1754.3-16QAM-6#LOW@26dB and 99PCT Bandwidth



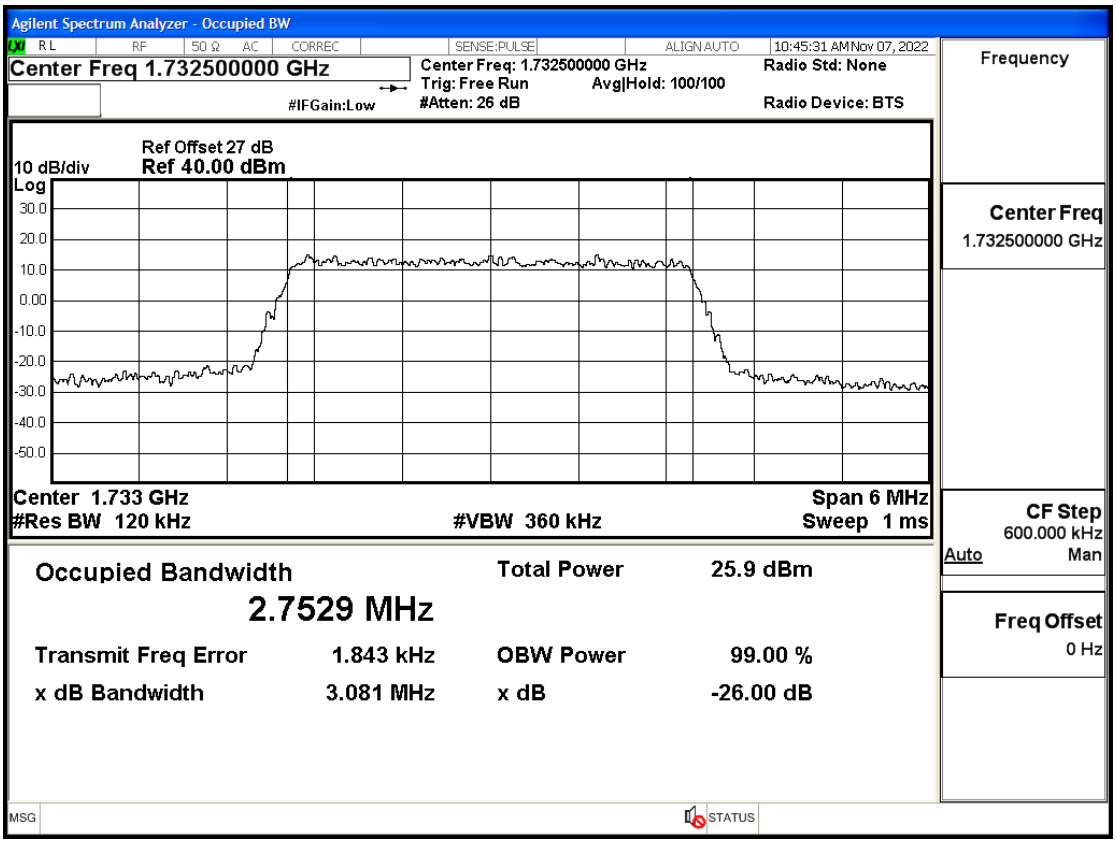
Band4-3-1711.5-QPSK-15#LOW@26dB and 99PCT Bandwidth



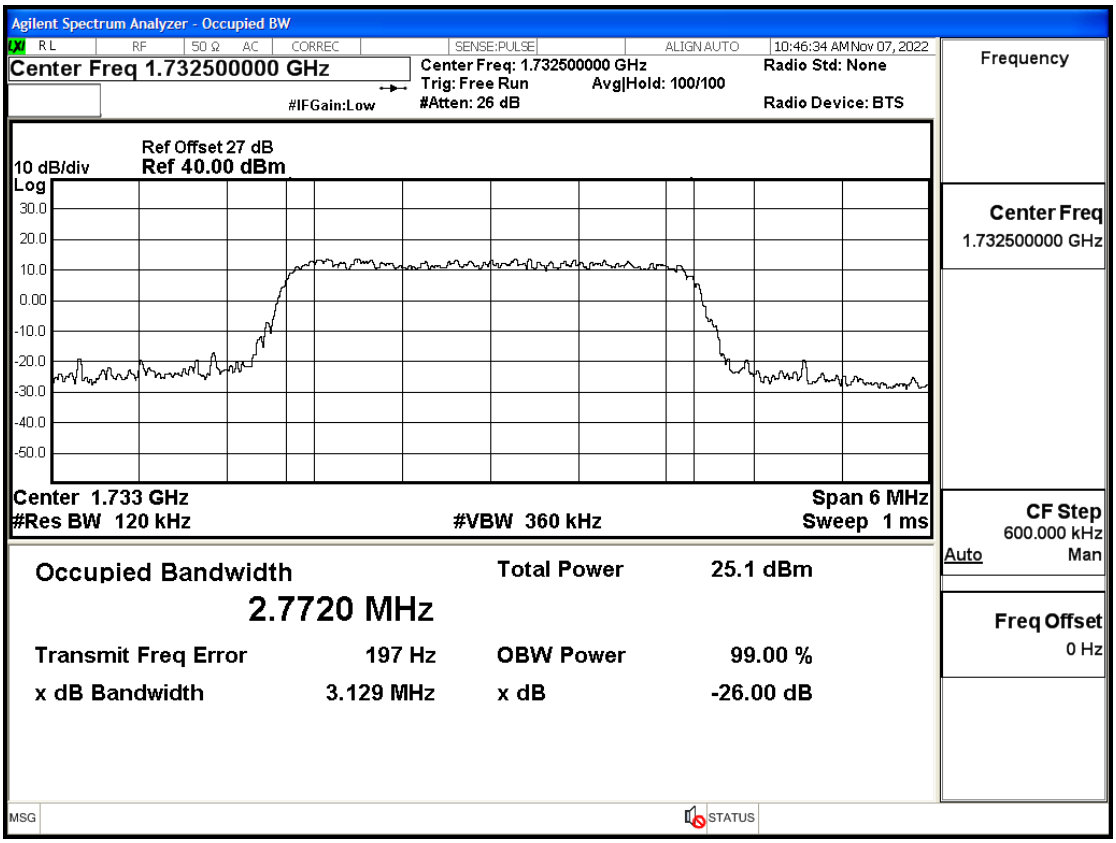
Band4-3-1711.5-16QAM-15#LOW@26dB and 99PCT Bandwidth



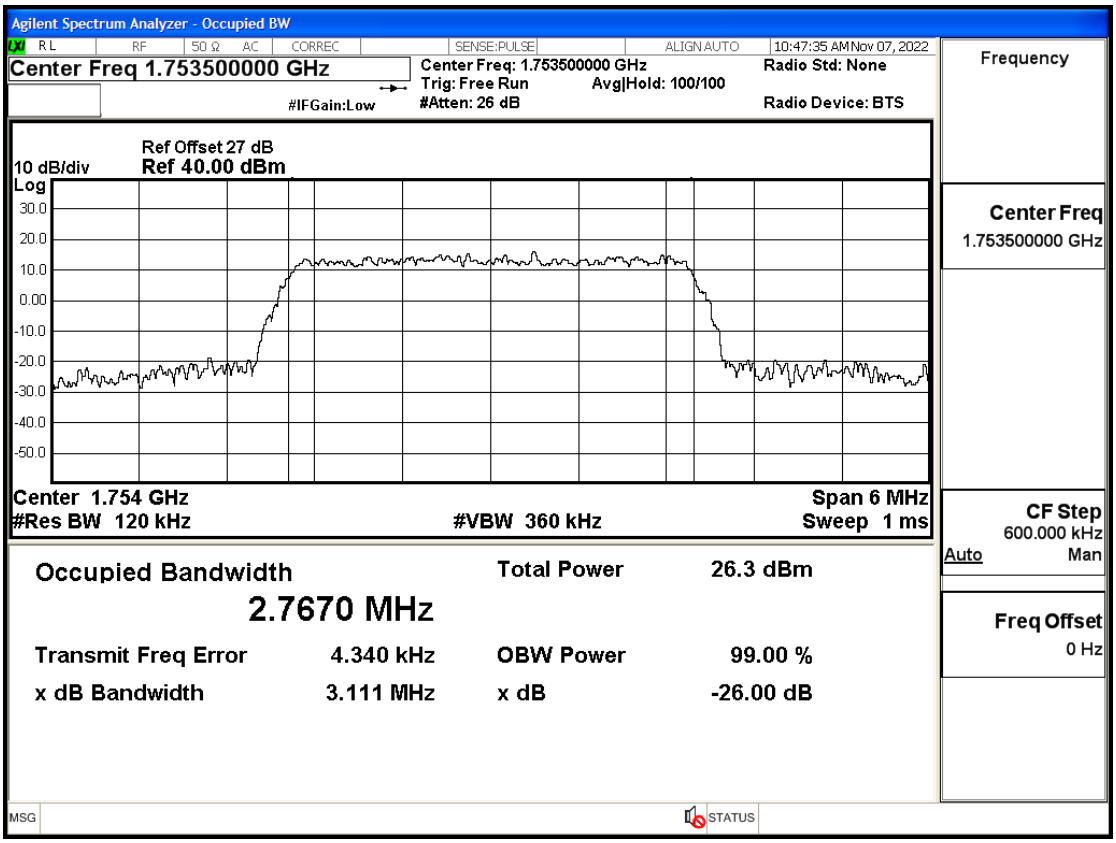
Band4-3-1732.5-QPSK-15#LOW@26dB and 99PCT Bandwidth



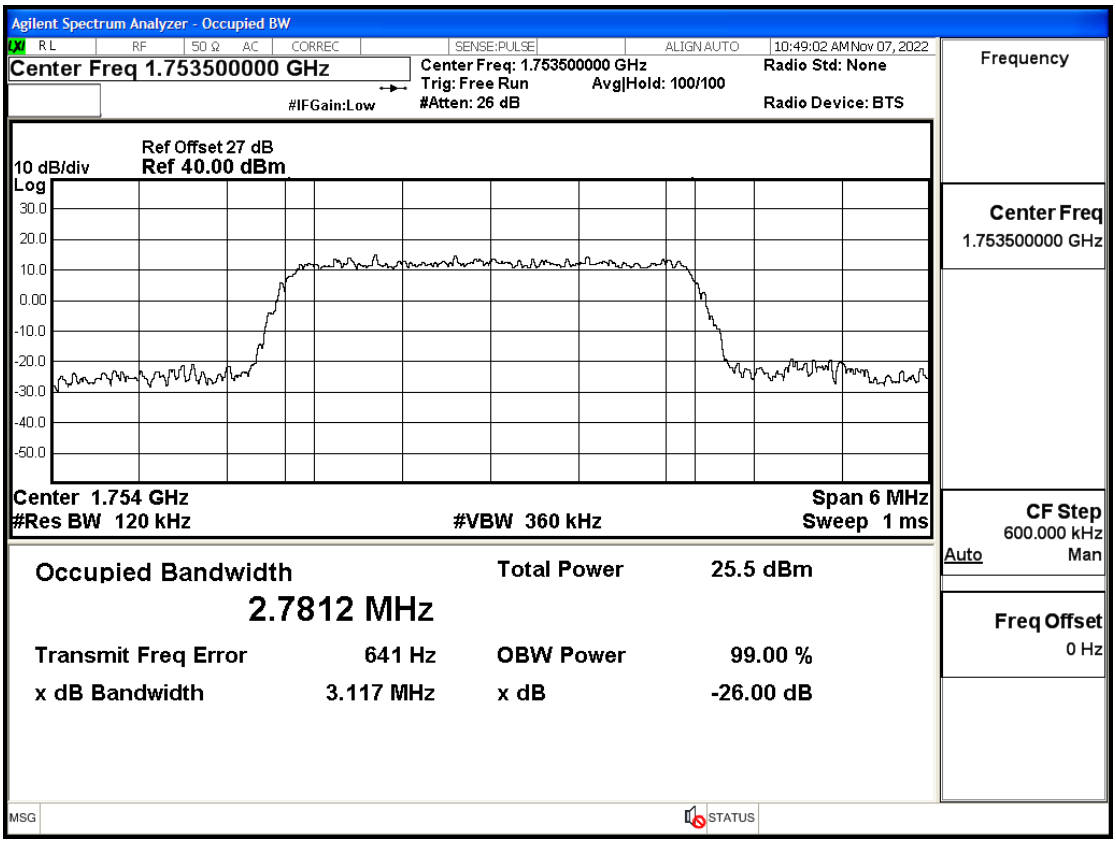
Band4-3-1732.5-16QAM-15#LOW@26dB and 99PCT Bandwidth



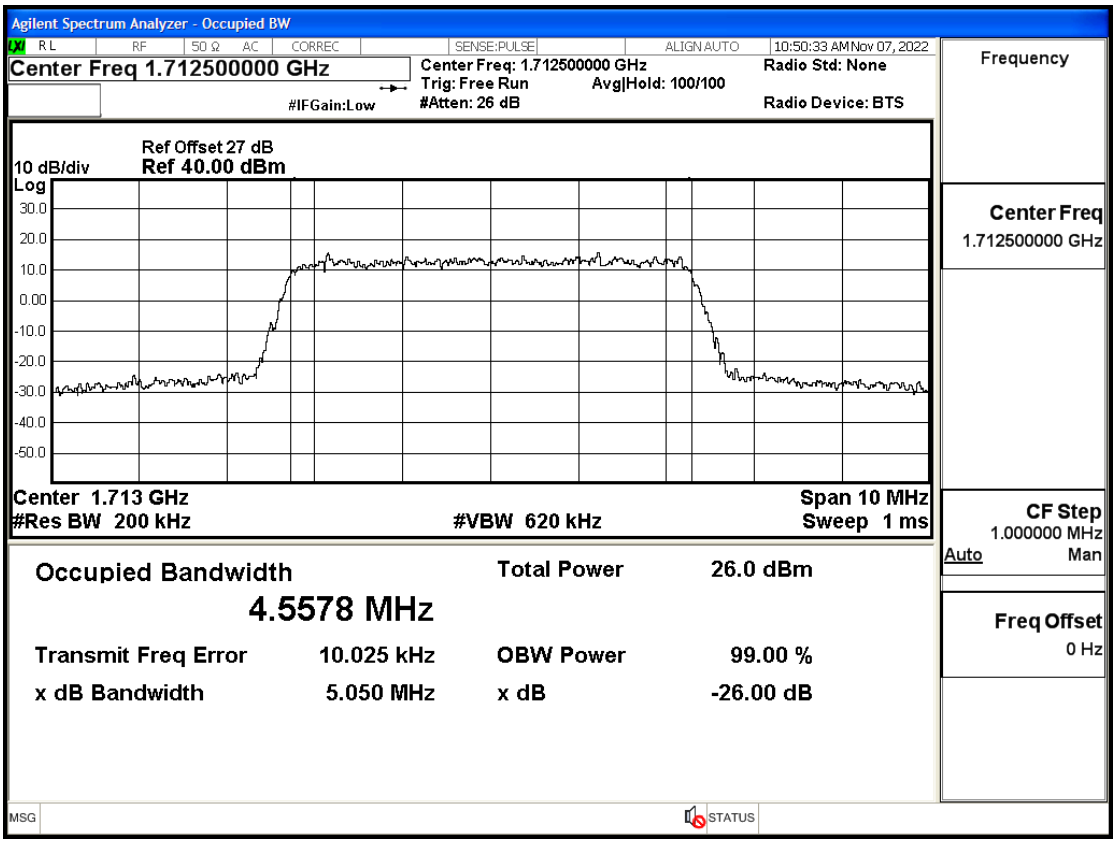
Band4-3-1753.5-QPSK-15#LOW@26dB and 99PCT Bandwidth



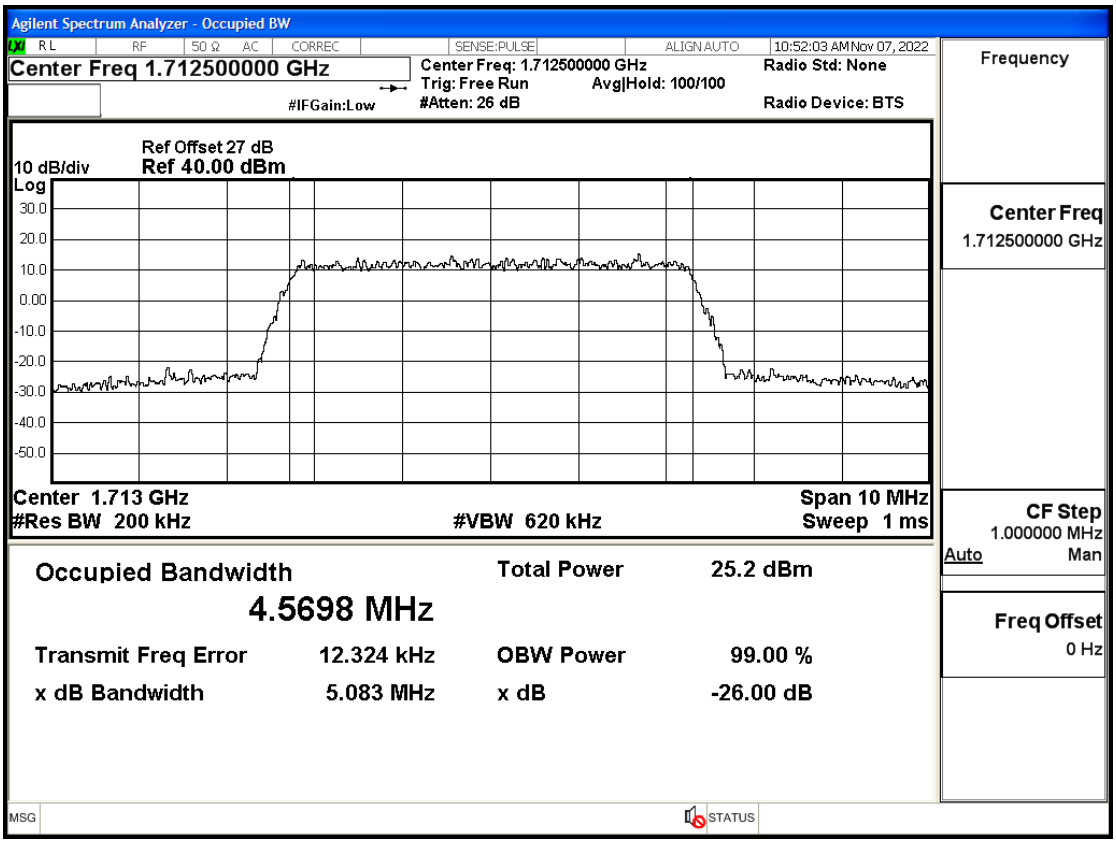
Band4-3-1753.5-16QAM-15#LOW@26dB and 99PCT Bandwidth



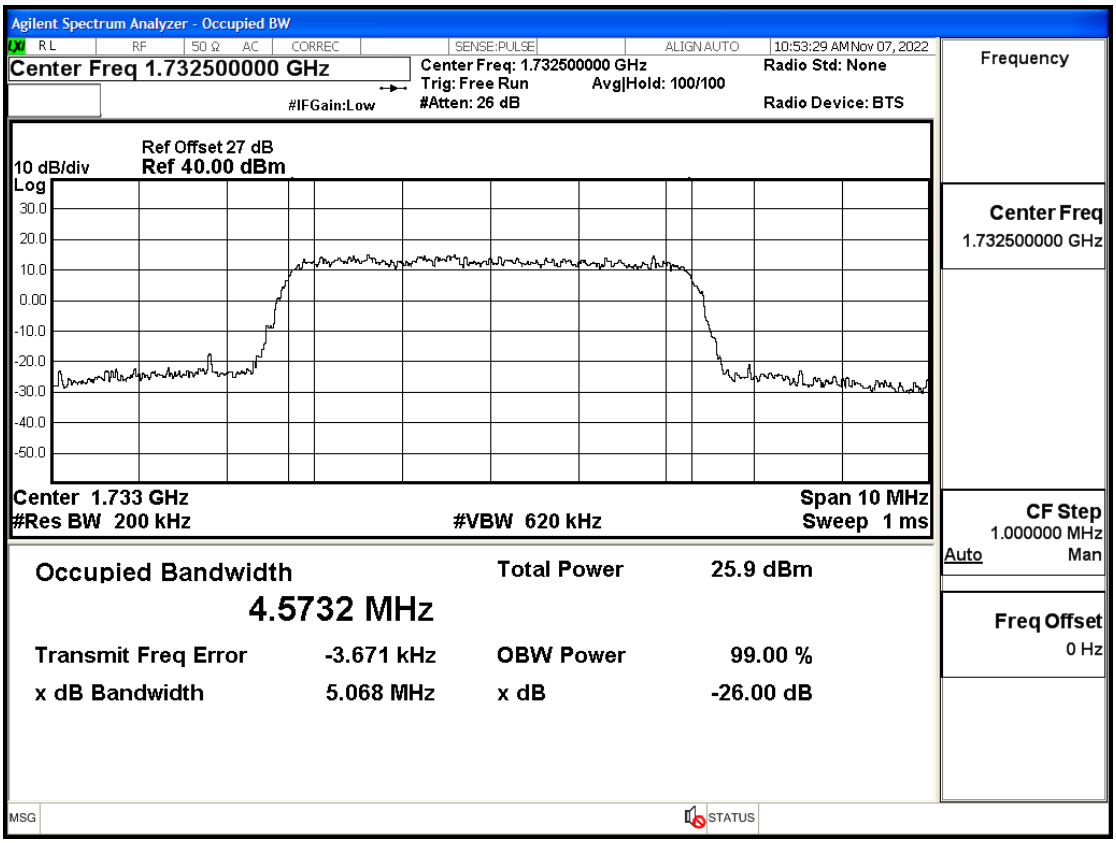
Band4-5-1712.5-QPSK-25#LOW@26dB and 99PCT Bandwidth



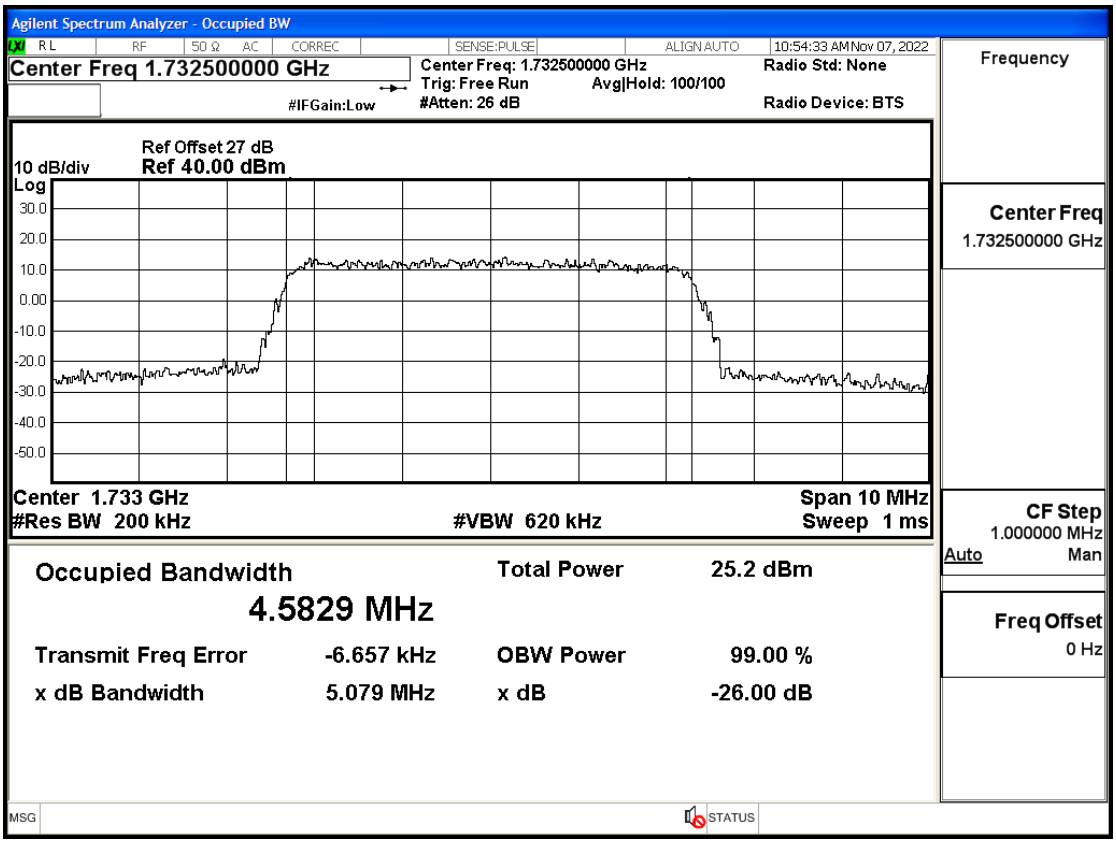
Band4-5-1712.5-16QAM-25#LOW@26dB and 99PCT Bandwidth



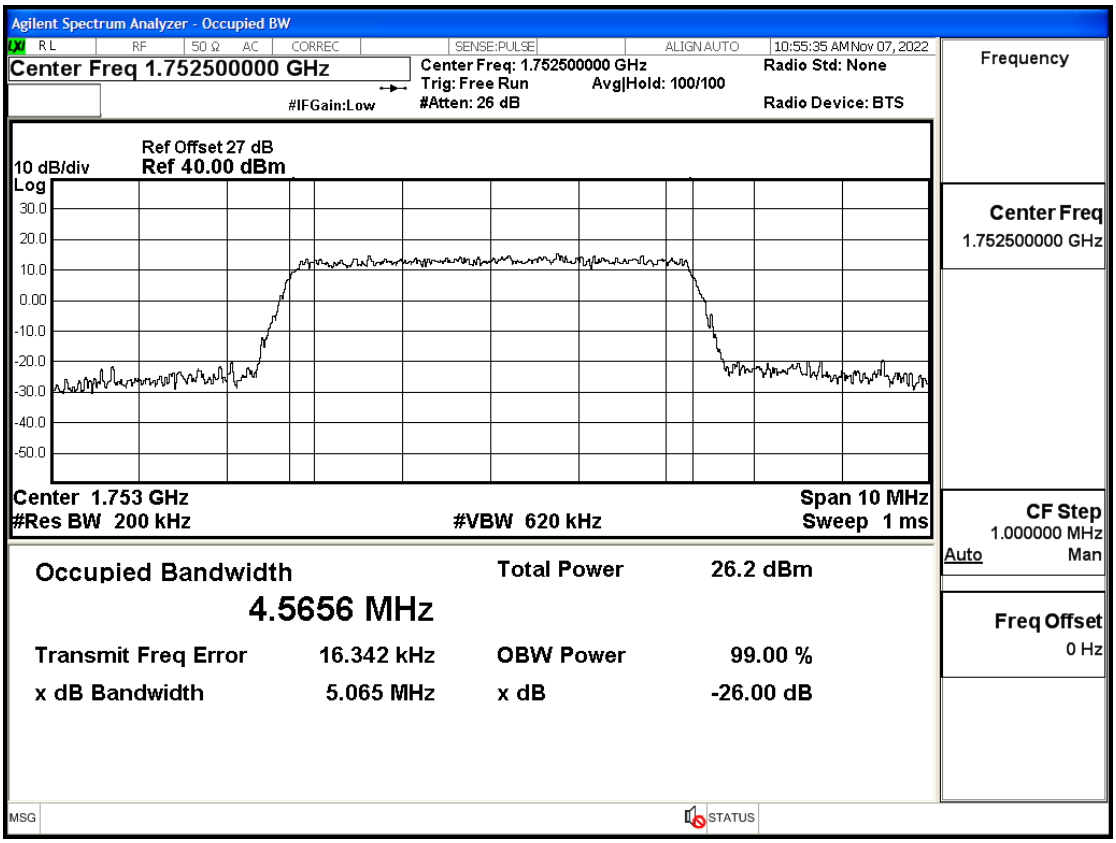
Band4-5-1732.5-QPSK-25#LOW@26dB and 99PCT Bandwidth



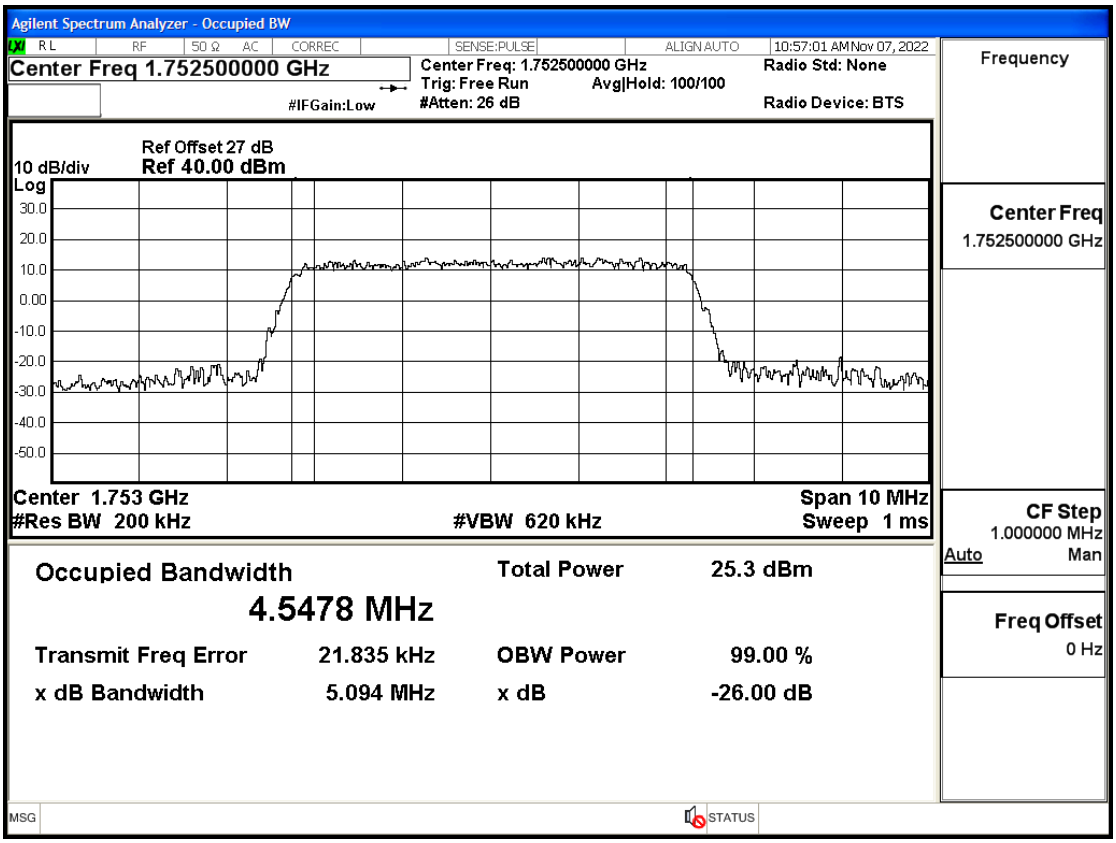
Band4-5-1732.5-16QAM-25#LOW@26dB and 99PCT Bandwidth



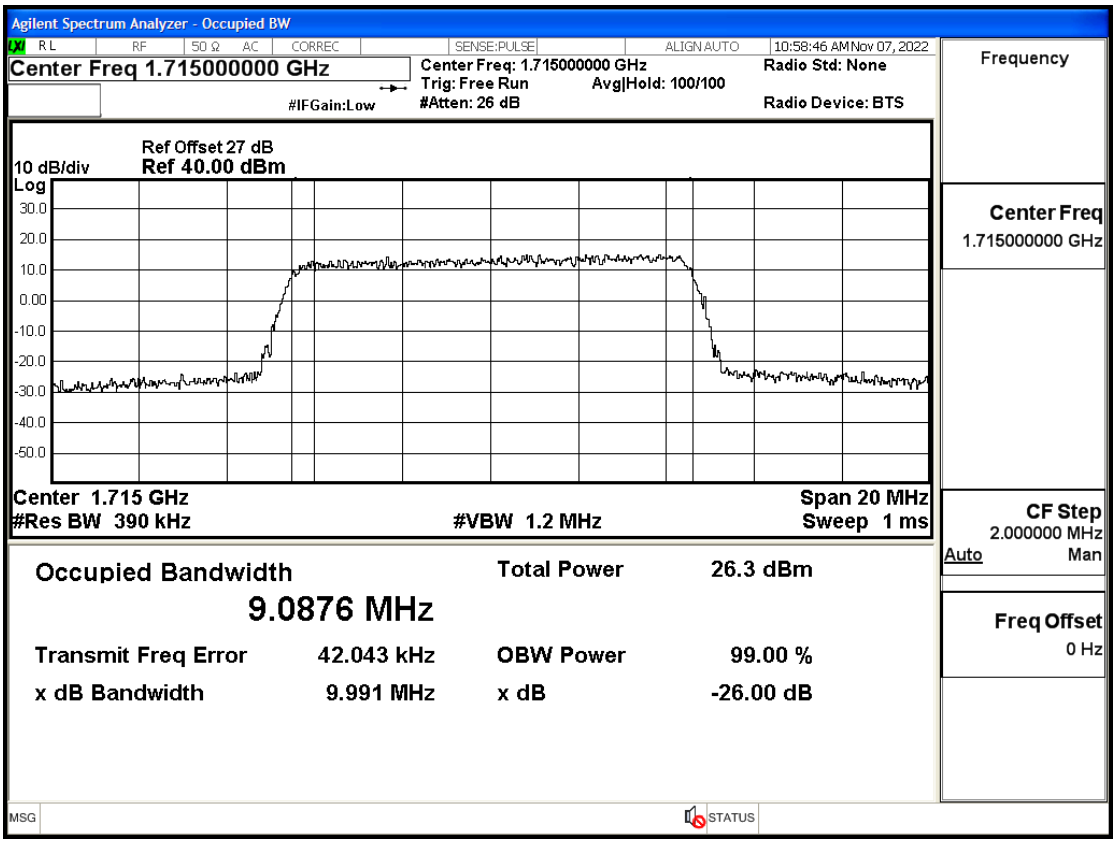
Band4-5-1752.5-QPSK-25#LOW@26dB and 99PCT Bandwidth



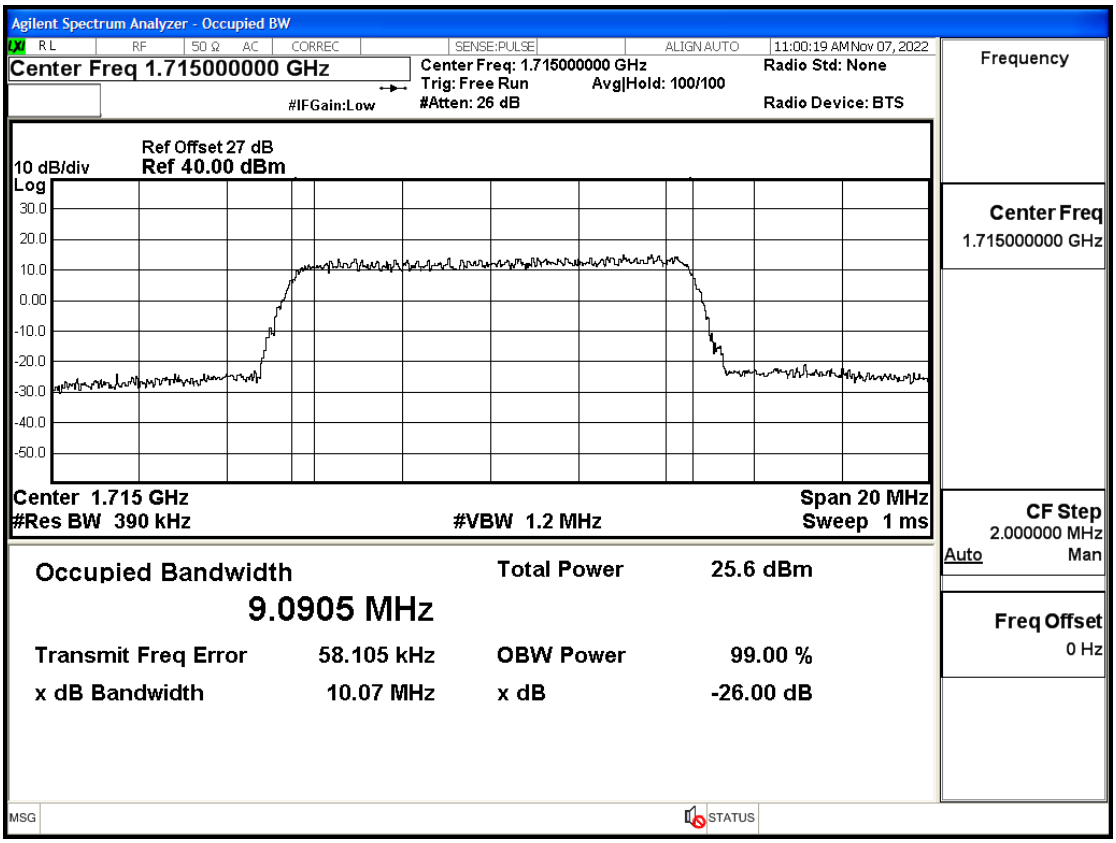
Band4-5-1752.5-16QAM-25#LOW@26dB and 99PCT Bandwidth



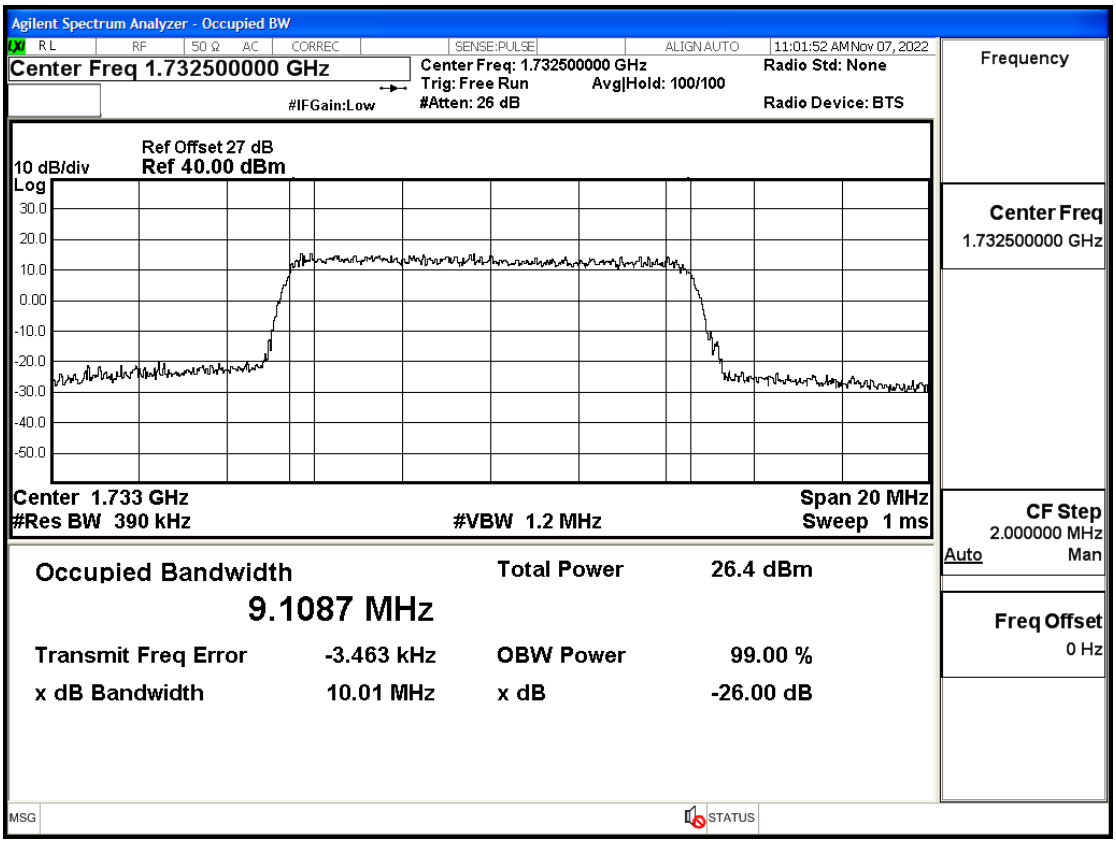
Band4-10-1715-QPSK-50#LOW@26dB and 99PCT Bandwidth



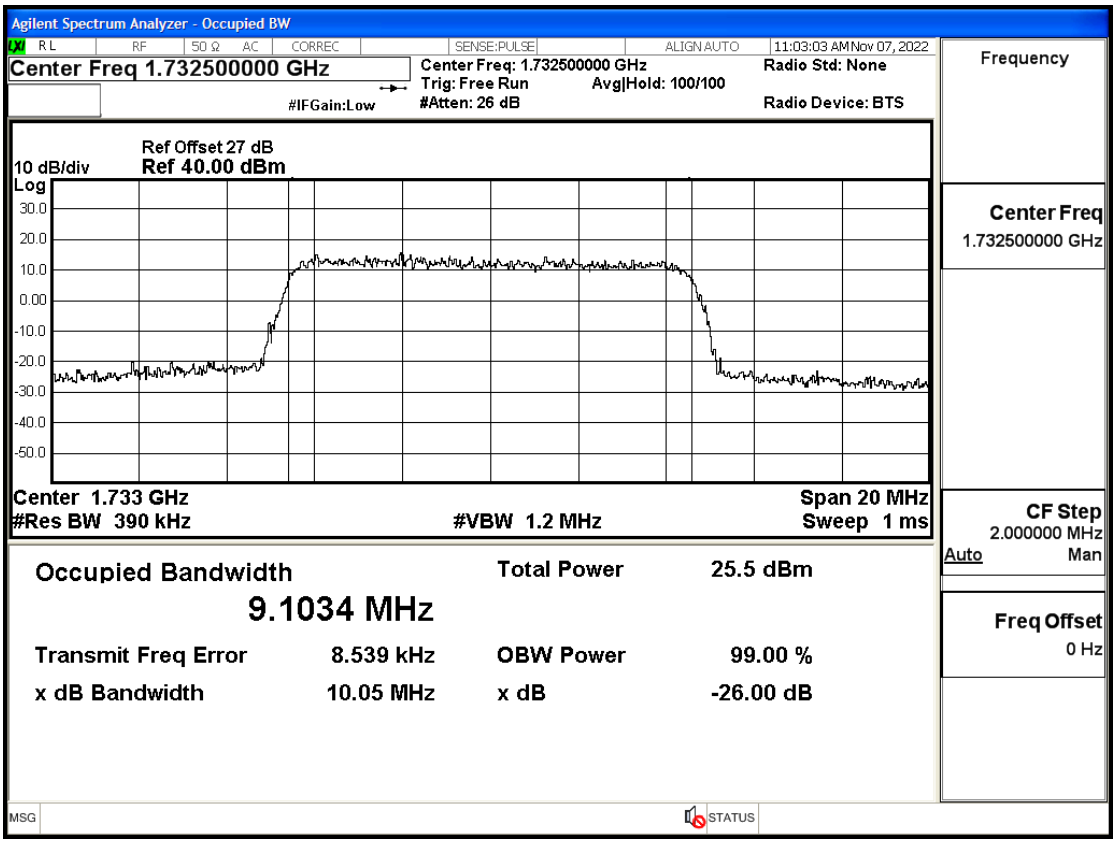
Band4-10-1715-16QAM-50#LOW@26dB and 99PCT Bandwidth



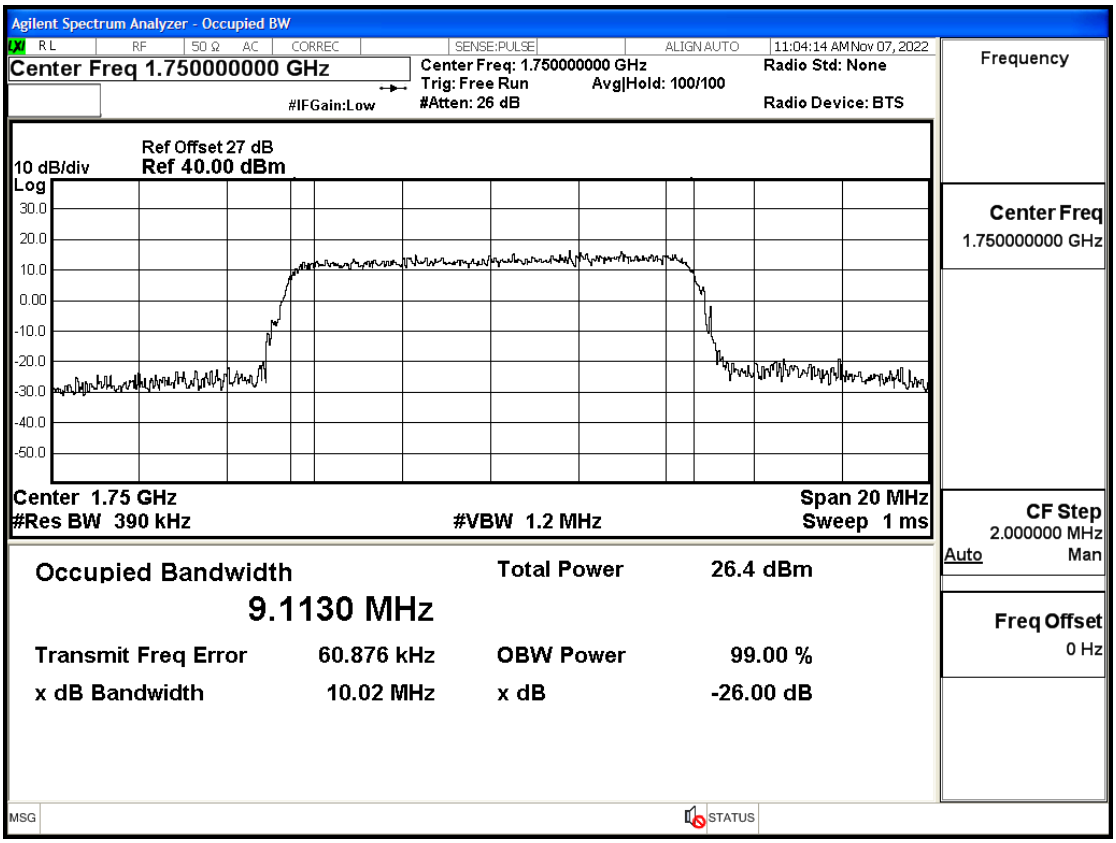
Band4-10-1732.5-QPSK-50#LOW@26dB and 99PCT Bandwidth



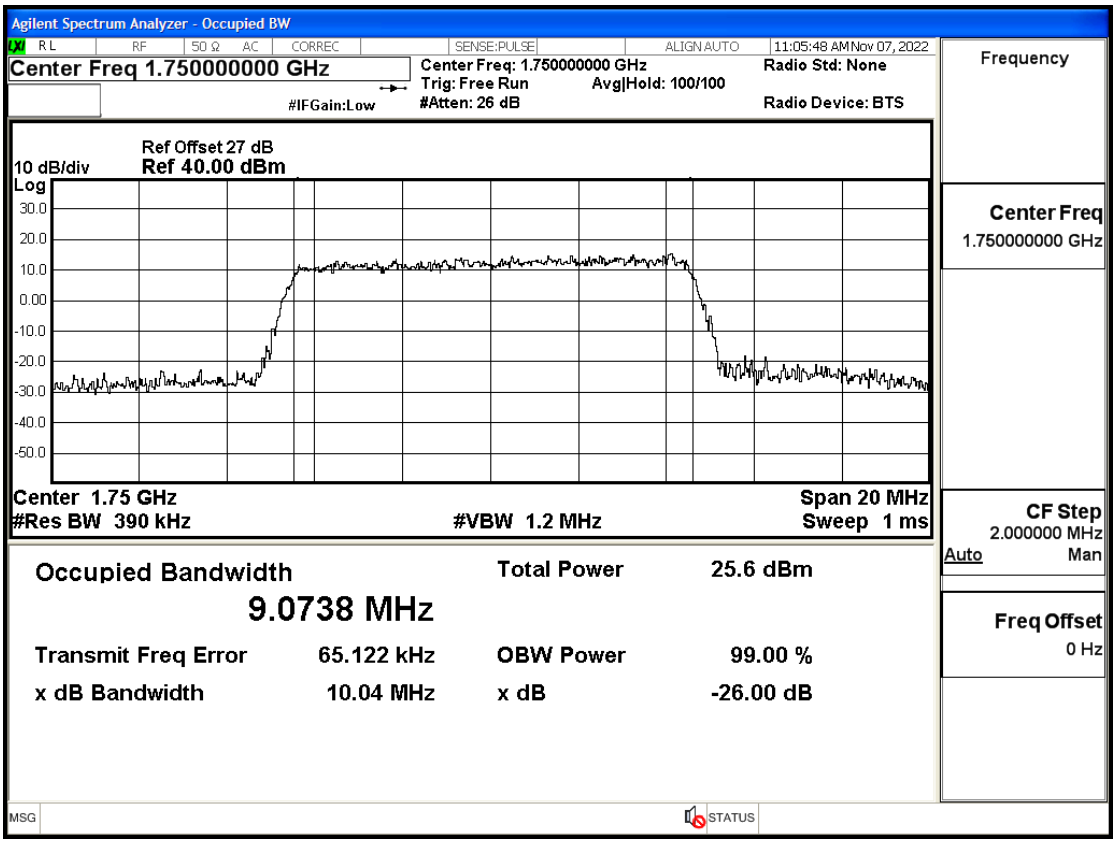
Band4-10-1732.5-16QAM-50#LOW@26dB and 99PCT Bandwidth



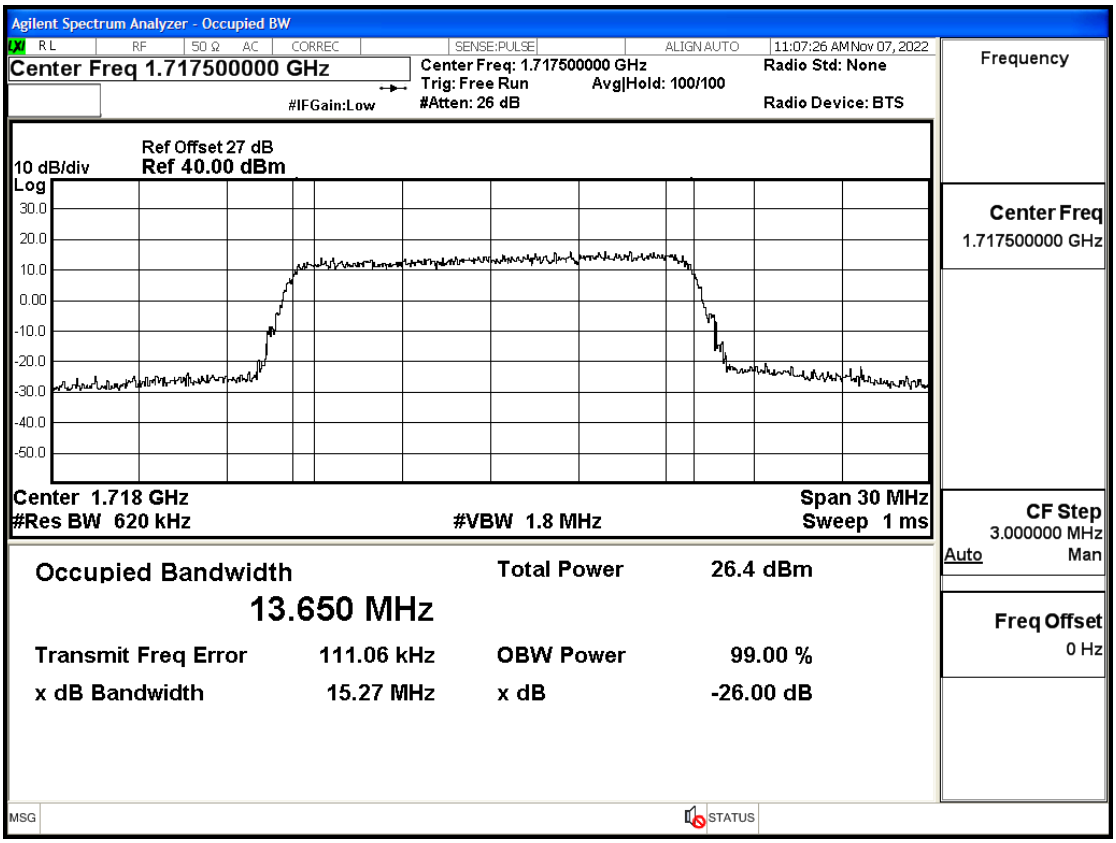
Band4-10-1750-QPSK-50#LOW@26dB and 99PCT Bandwidth



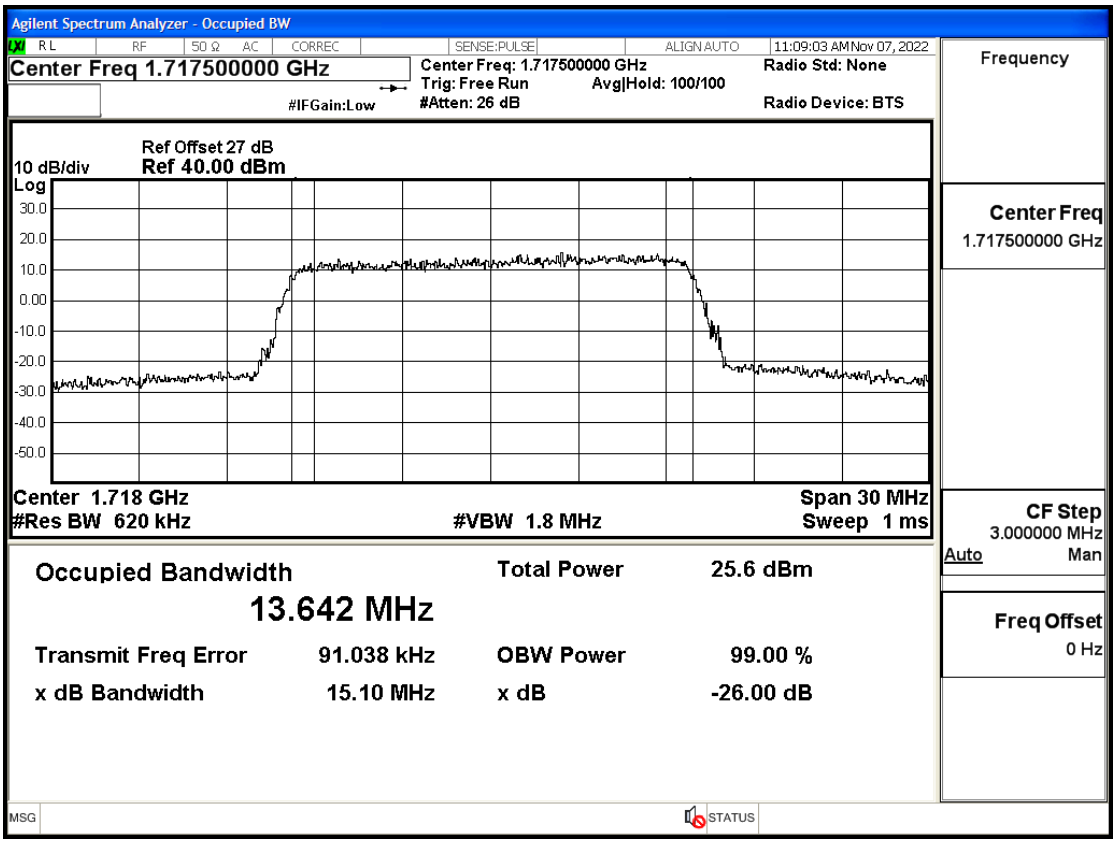
Band4-10-1750-16QAM-50#LOW@26dB and 99PCT Bandwidth



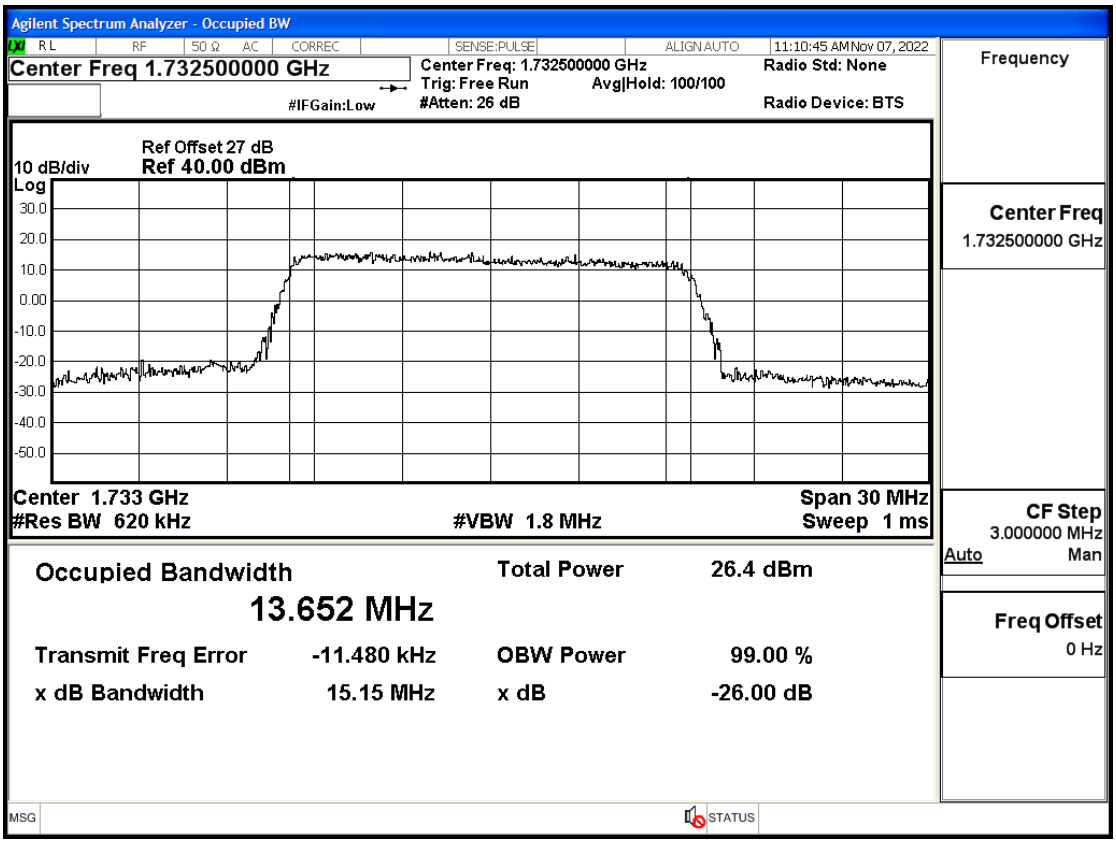
Band4-15-1717.5-QPSK-75#LOW@26dB and 99PCT Bandwidth



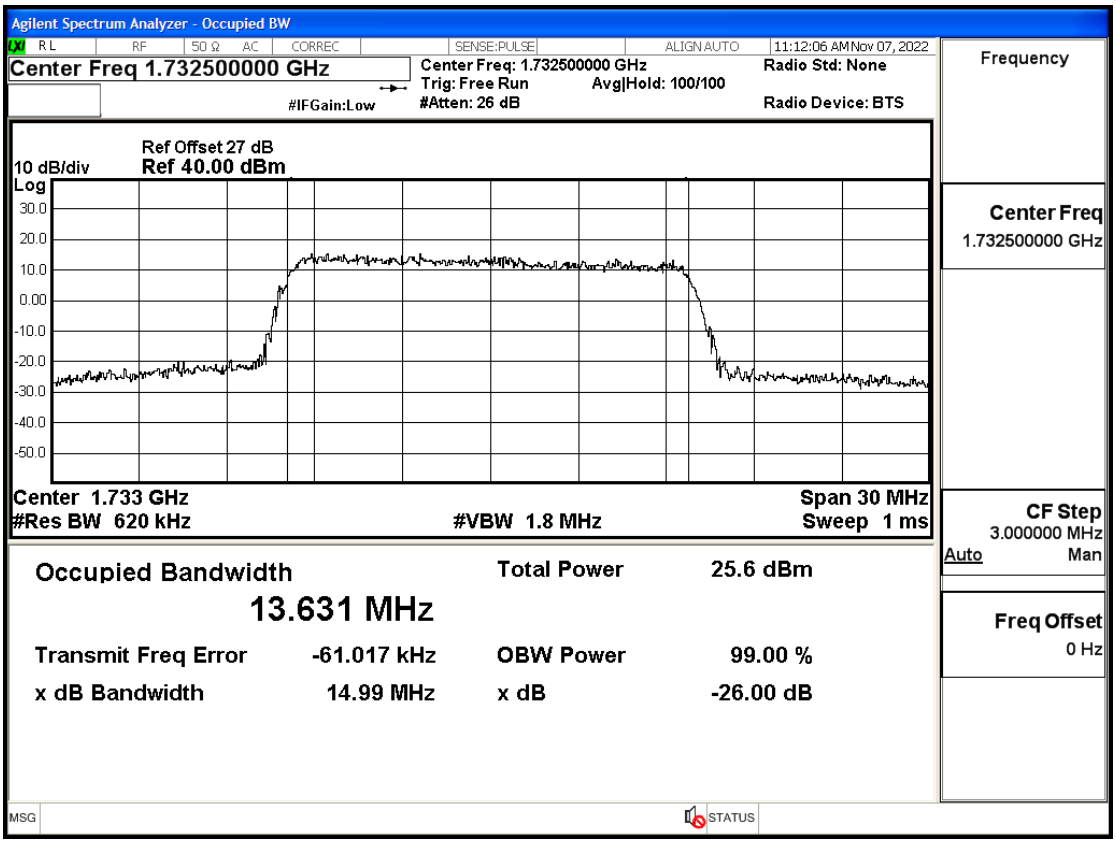
Band4-15-1717.5-16QAM-75#LOW@26dB and 99PCT Bandwidth



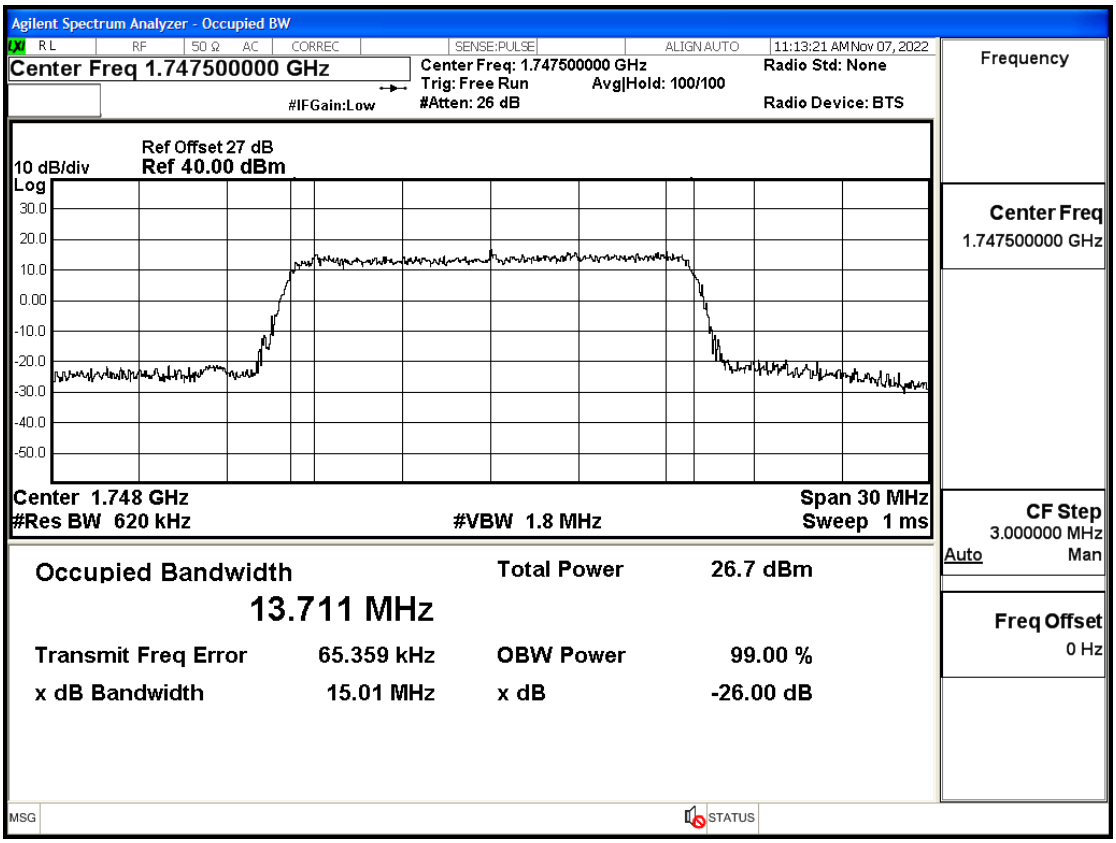
Band4-15-1732.5-QPSK-75#LOW@26dB and 99PCT Bandwidth



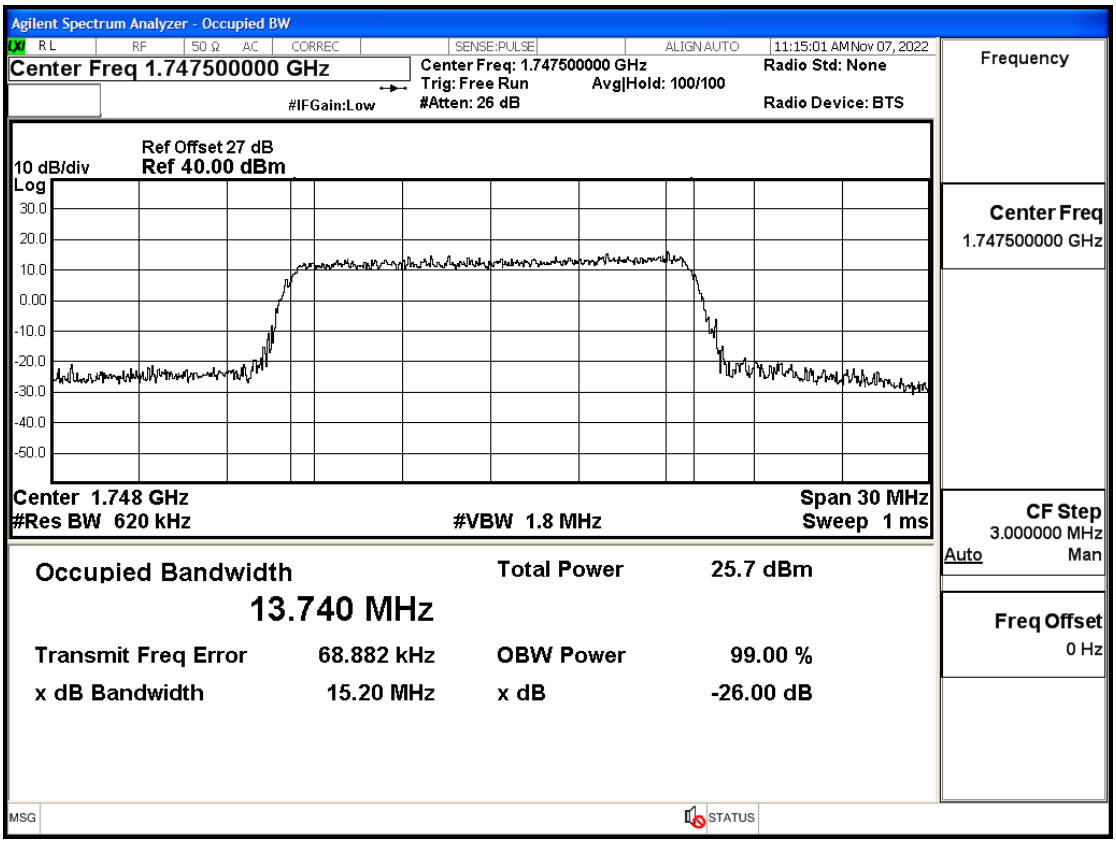
Band4-15-1732.5-16QAM-75#LOW@26dB and 99PCT Bandwidth



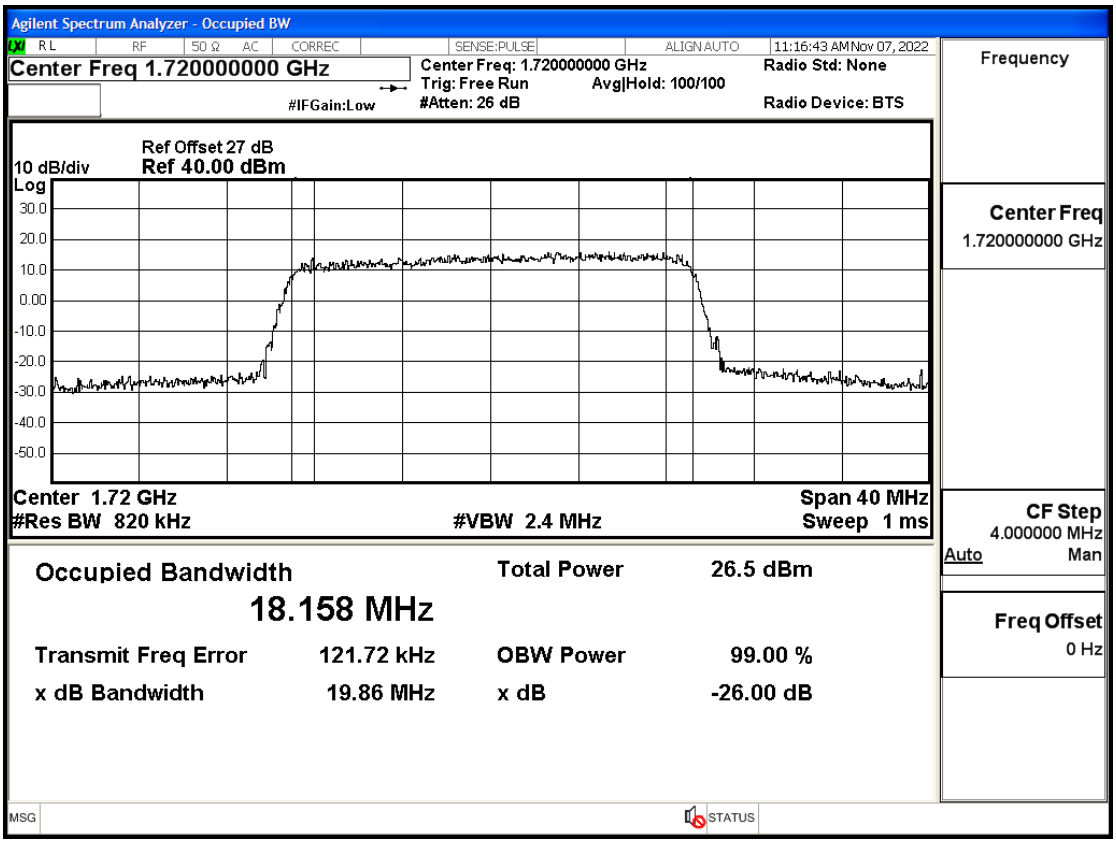
Band4-15-1747.5-QPSK-75#LOW@26dB and 99PCT Bandwidth



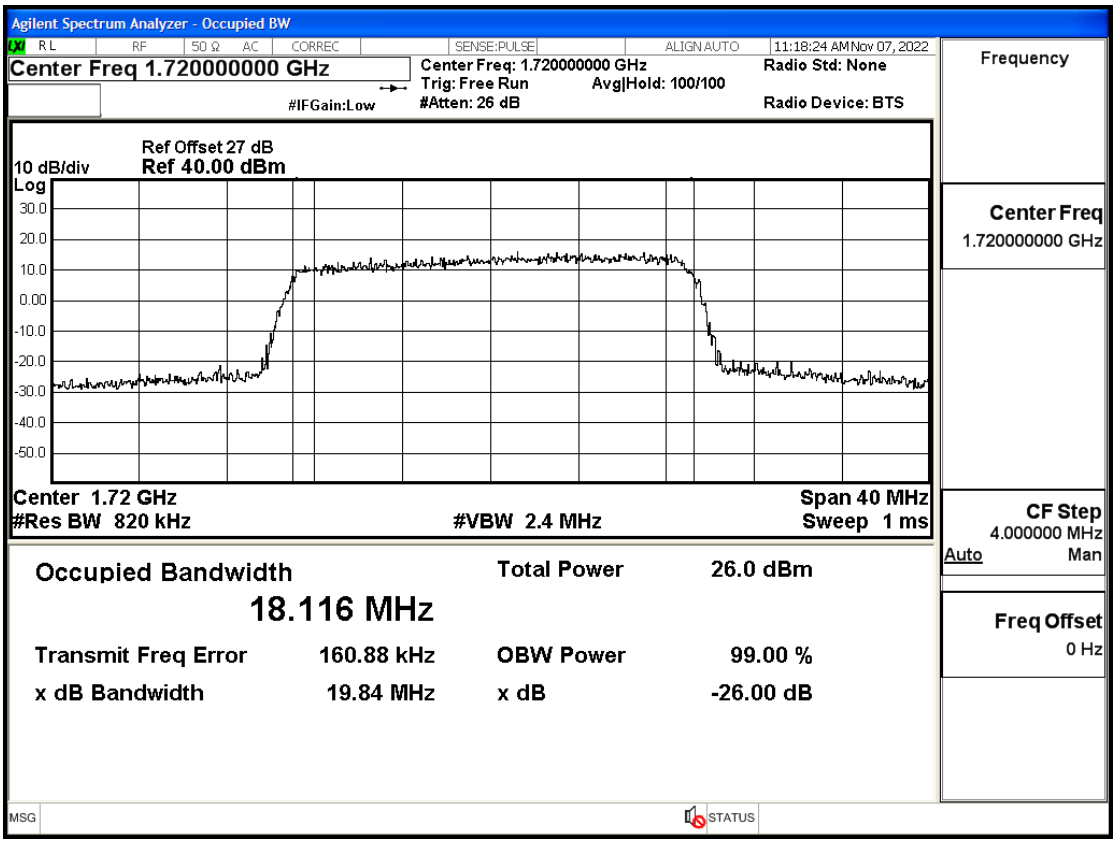
Band4-15-1747.5-16QAM-75#LOW@26dB and 99PCT Bandwidth



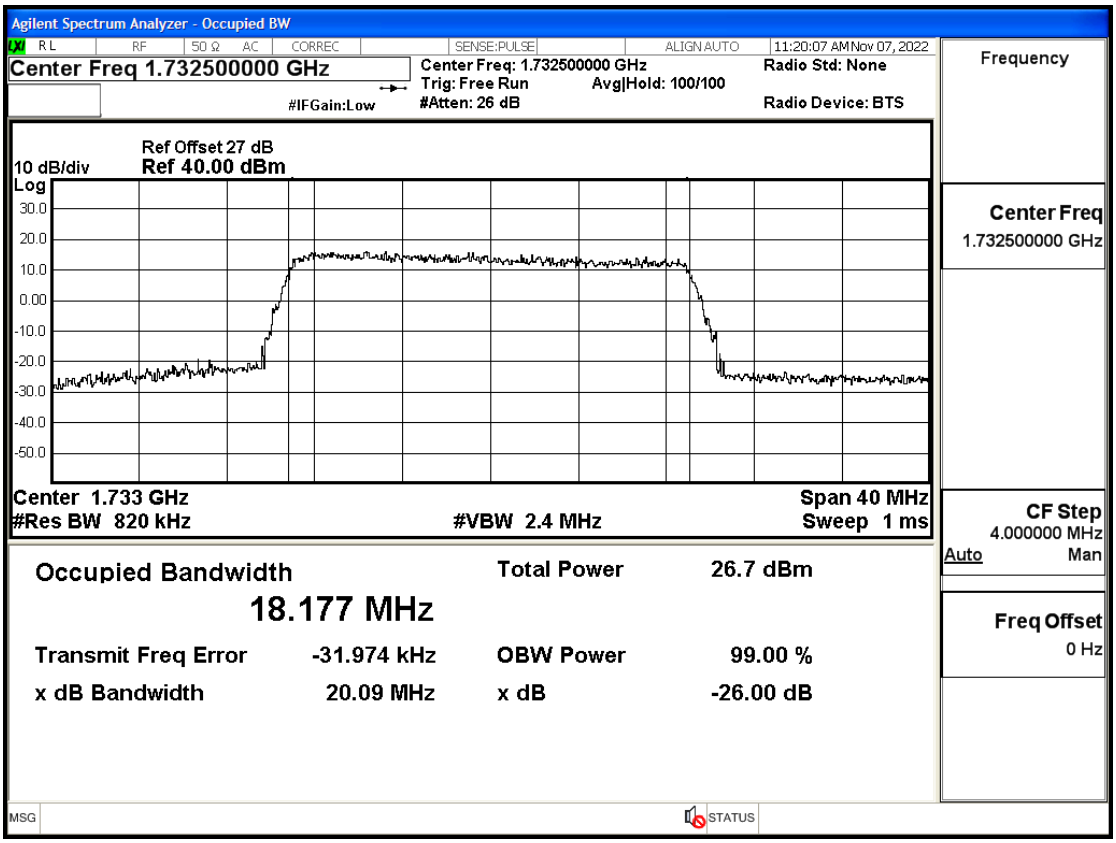
Band4-20-1720-QPSK-100#LOW@26dB and 99PCT Bandwidth



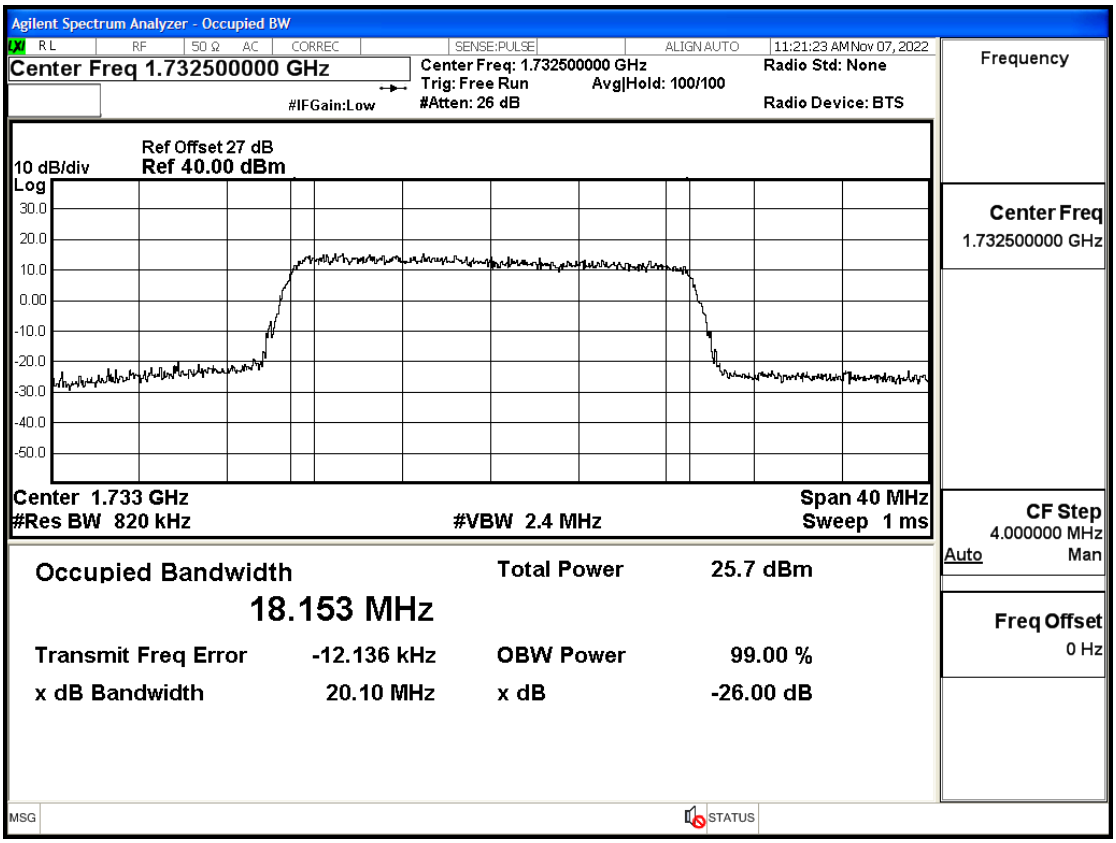
Band4-20-1720-16QAM-100#LOW@26dB and 99PCT Bandwidth



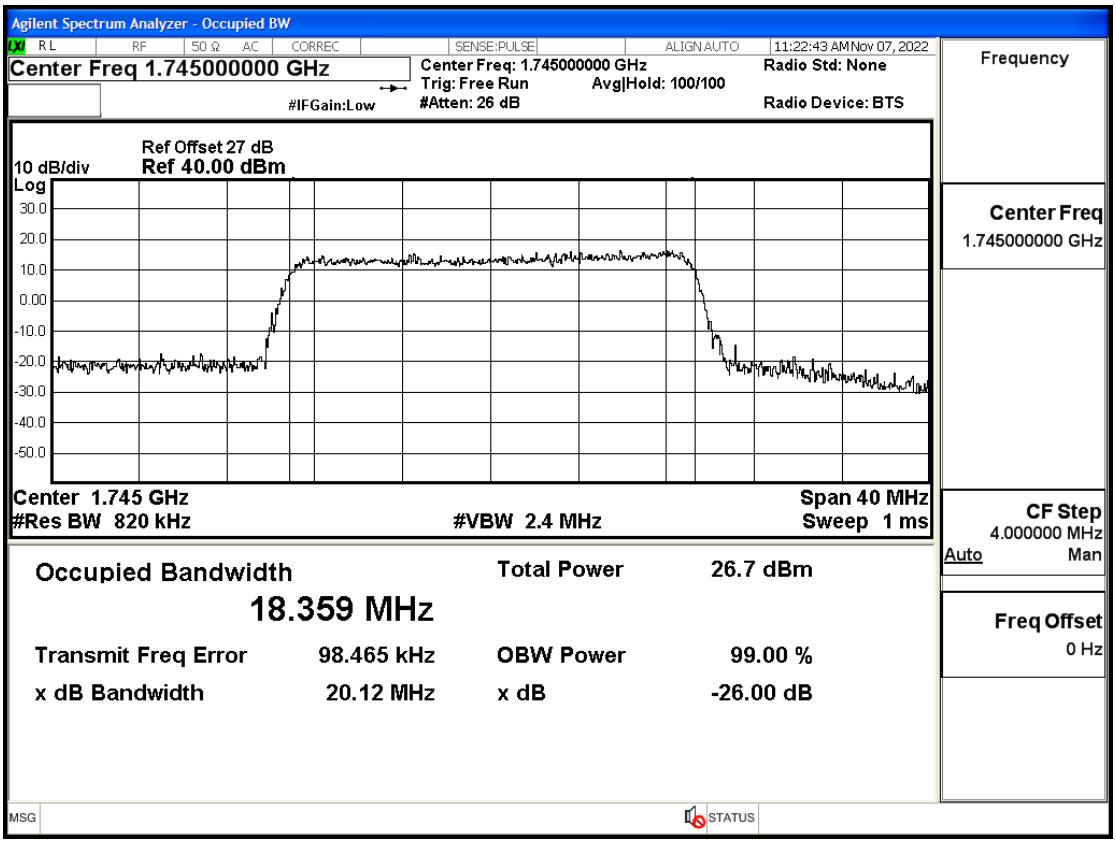
Band4-20-1732.5-QPSK-100#LOW@26dB and 99PCT Bandwidth



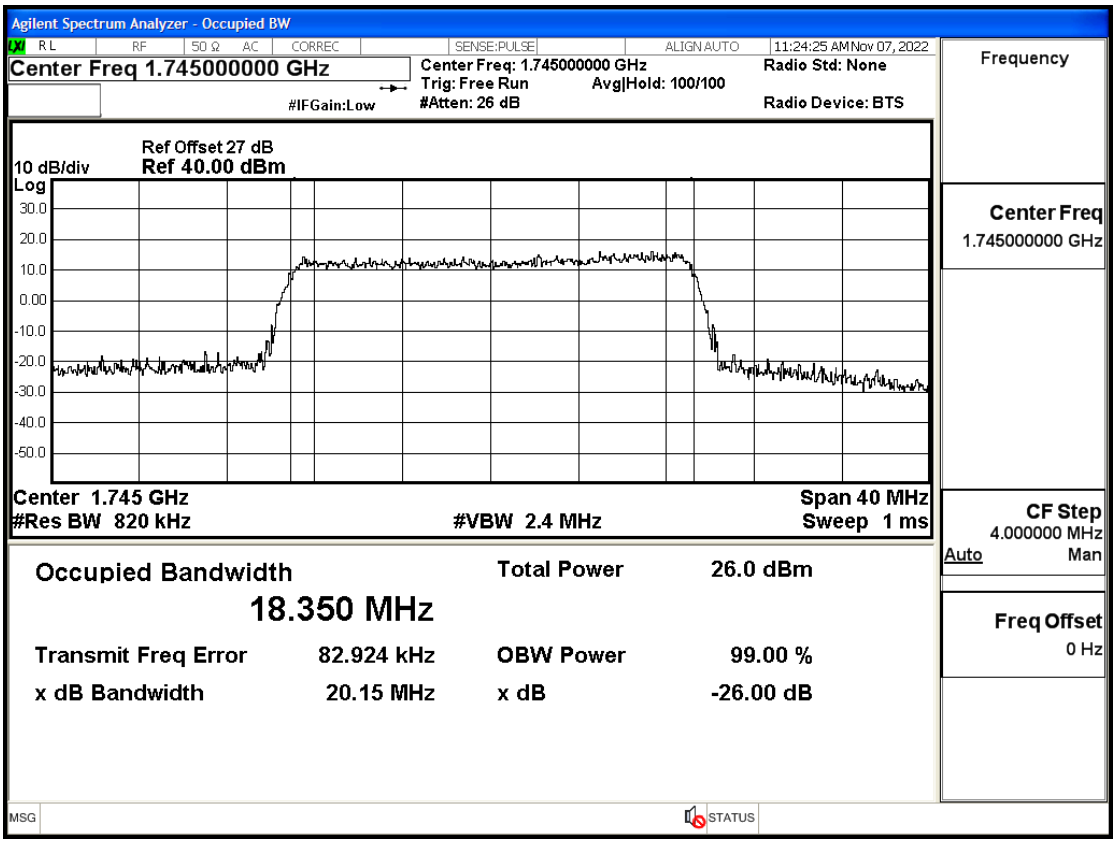
Band4-20-1732.5-16QAM-100#LOW@26dB and 99PCT Bandwidth



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 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 5MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0577	PASS
40	Normal Voltage	0.0332	
30	Normal Voltage	0.0192	
20(Ref.)	Normal Voltage	0.0295	
10	Normal Voltage	0.0661	
0	Normal Voltage	0.0188	
-10	Normal Voltage	0.0480	
-20	Normal Voltage	0.0376	
-30	Normal Voltage	0.0184	
20	Maximum Voltage	0.0165	
20	Normal Voltage	0.0282	
20	Battery End Point	0.0693	

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	21.73	26.43	4.7	13	0.92	22.65	30	Pass
Band4	1.4	1710.7	QPSK	3	LOW	19.7	25.48	5.78	13	0.92	20.62	30	Pass
Band4	1.4	1710.7	QPSK	3	MID	19.66	25.46	5.8	13	0.92	20.58	30	Pass
Band4	1.4	1710.7	QPSK	3	HIGH	19.72	25.37	5.65	13	0.92	20.64	30	Pass
Band4	1.4	1710.7	QPSK	1	LOW	19.62	25.07	5.45	13	0.92	20.54	30	Pass
Band4	1.4	1710.7	QPSK	1	MID	19.66	25.06	5.4	13	0.92	20.58	30	Pass
Band4	1.4	1710.7	QPSK	1	HIGH	19.6	25.04	5.44	13	0.92	20.52	30	Pass
Band4	1.4	1710.7	16QAM	6	LOW	19.85	26.83	6.98	13	0.92	20.77	30	Pass
Band4	1.4	1710.7	16QAM	3	LOW	18.83	24.82	5.99	13	0.92	19.75	30	Pass
Band4	1.4	1710.7	16QAM	3	MID	18.82	24.82	6	13	0.92	19.74	30	Pass
Band4	1.4	1710.7	16QAM	3	HIGH	18.91	24.91	6	13	0.92	19.83	30	Pass
Band4	1.4	1710.7	16QAM	1	LOW	19.62	25.03	5.41	13	0.92	20.54	30	Pass
Band4	1.4	1710.7	16QAM	1	MID	19.65	24.97	5.32	13	0.92	20.57	30	Pass
Band4	1.4	1710.7	16QAM	1	HIGH	19.65	25.03	5.38	13	0.92	20.57	30	Pass
Band4	1.4	1732.5	QPSK	6	LOW	20.62	26.37	5.75	13	0.92	21.54	30	Pass
Band4	1.4	1732.5	QPSK	3	LOW	19.63	24.78	5.15	13	0.92	20.55	30	Pass
Band4	1.4	1732.5	QPSK	3	MID	19.63	24.75	5.12	13	0.92	20.55	30	Pass
Band4	1.4	1732.5	QPSK	3	HIGH	19.55	24.66	5.11	13	0.92	20.47	30	Pass
Band4	1.4	1732.5	QPSK	1	LOW	19.74	24.58	4.84	13	0.92	20.66	30	Pass
Band4	1.4	1732.5	QPSK	1	MID	19.91	24.55	4.64	13	0.92	20.83	30	Pass
Band4	1.4	1732.5	QPSK	1	HIGH	19.97	24.69	4.72	13	0.92	20.89	30	Pass
Band4	1.4	1732.5	16QAM	6	LOW	19.97	26.25	6.28	13	0.92	20.89	30	Pass
Band4	1.4	1732.5	16QAM	3	LOW	18.85	24.86	6.01	13	0.92	19.77	30	Pass
Band4	1.4	1732.5	16QAM	3	MID	18.86	24.85	5.99	13	0.92	19.78	30	Pass
Band4	1.4	1732.5	16QAM	3	HIGH	18.92	25.04	6.12	13	0.92	19.84	30	Pass
Band4	1.4	1732.5	16QAM	1	LOW	18.95	23.81	4.86	13	0.92	19.87	30	Pass
Band4	1.4	1732.5	16QAM	1	MID	18.98	23.75	4.77	13	0.92	19.9	30	Pass
Band4	1.4	1732.5	16QAM	1	HIGH	18.89	23.78	4.89	13	0.92	19.81	30	Pass
Band4	1.4	1754.3	QPSK	6	LOW	20.71	25.79	5.08	13	0.92	21.63	30	Pass
Band4	1.4	1754.3	QPSK	3	LOW	19.81	24.43	4.62	13	0.92	20.73	30	Pass
Band4	1.4	1754.3	QPSK	3	MID	19.79	24.43	4.64	13	0.92	20.71	30	Pass
Band4	1.4	1754.3	QPSK	3	HIGH	19.9	24.5	4.6	13	0.92	20.82	30	Pass
Band4	1.4	1754.3	QPSK	1	LOW	19.88	24.03	4.15	13	0.92	20.8	30	Pass
Band4	1.4	1754.3	QPSK	1	MID	19.94	24.03	4.09	13	0.92	20.86	30	Pass
Band4	1.4	1754.3	QPSK	1	HIGH	19.97	24.07	4.1	13	0.92	20.89	30	Pass
Band4	1.4	1754.3	16QAM	6	LOW	20.14	25.83	5.69	13	0.92	21.06	30	Pass
Band4	1.4	1754.3	16QAM	3	LOW	18.74	24.34	5.6	13	0.92	19.66	30	Pass
Band4	1.4	1754.3	16QAM	3	MID	18.74	24.38	5.64	13	0.92	19.66	30	Pass
Band4	1.4	1754.3	16QAM	3	HIGH	18.64	24.3	5.66	13	0.92	19.56	30	Pass
Band4	1.4	1754.3	16QAM	1	LOW	18.87	23.54	4.67	13	0.92	19.79	30	Pass

Band4	1.4	1754.3	16QAM	1	MID	18.79	23.47	4.68	13	0.92	19.71	30	Pass
Band4	1.4	1754.3	16QAM	1	HIGH	18.84	23.53	4.69	13	0.92	19.76	30	Pass
Band4	3	1711.5	QPSK	15	LOW	20.5	26.41	5.91	13	0.92	21.42	30	Pass
Band4	3	1711.5	QPSK	8	LOW	18.66	24.47	5.81	13	0.92	19.58	30	Pass
Band4	3	1711.5	QPSK	8	MID	18.66	24.58	5.92	13	0.92	19.58	30	Pass
Band4	3	1711.5	QPSK	8	HIGH	18.59	24.42	5.83	13	0.92	19.51	30	Pass
Band4	3	1711.5	QPSK	1	LOW	19.57	24.36	4.79	13	0.92	20.49	30	Pass
Band4	3	1711.5	QPSK	1	MID	19.6	24.5	4.9	13	0.92	20.52	30	Pass
Band4	3	1711.5	QPSK	1	HIGH	19.53	24.43	4.9	13	0.92	20.45	30	Pass
Band4	3	1711.5	16QAM	15	LOW	19.71	26.16	6.45	13	0.92	20.63	30	Pass
Band4	3	1711.5	16QAM	8	LOW	18.14	24.88	6.74	13	0.92	19.06	30	Pass
Band4	3	1711.5	16QAM	8	MID	18.03	24.86	6.83	13	0.92	18.95	30	Pass
Band4	3	1711.5	16QAM	8	HIGH	18.06	24.76	6.7	13	0.92	18.98	30	Pass
Band4	3	1711.5	16QAM	1	LOW	19.23	25.18	5.95	13	0.92	20.15	30	Pass
Band4	3	1711.5	16QAM	1	MID	19.28	25.36	6.08	13	0.92	20.2	30	Pass
Band4	3	1711.5	16QAM	1	HIGH	19.16	25.27	6.11	13	0.92	20.08	30	Pass
Band4	3	1732.5	QPSK	15	LOW	20.6	26.31	5.71	13	0.92	21.52	30	Pass
Band4	3	1732.5	QPSK	8	LOW	18.6	24.58	5.98	13	0.92	19.52	30	Pass
Band4	3	1732.5	QPSK	8	MID	18.51	24.46	5.95	13	0.92	19.43	30	Pass
Band4	3	1732.5	QPSK	8	HIGH	18.53	24.48	5.95	13	0.92	19.45	30	Pass
Band4	3	1732.5	QPSK	1	LOW	19.67	24.47	4.8	13	0.92	20.59	30	Pass
Band4	3	1732.5	QPSK	1	MID	19.67	24.46	4.79	13	0.92	20.59	30	Pass
Band4	3	1732.5	QPSK	1	HIGH	19.77	24.54	4.77	13	0.92	20.69	30	Pass
Band4	3	1732.5	16QAM	15	LOW	19.89	26.37	6.48	13	0.92	20.81	30	Pass
Band4	3	1732.5	16QAM	8	LOW	17.8	24.39	6.59	13	0.92	18.72	30	Pass
Band4	3	1732.5	16QAM	8	MID	17.83	24.33	6.5	13	0.92	18.75	30	Pass
Band4	3	1732.5	16QAM	8	HIGH	17.8	24.14	6.34	13	0.92	18.72	30	Pass
Band4	3	1732.5	16QAM	1	LOW	19.39	24.01	4.62	13	0.92	20.31	30	Pass
Band4	3	1732.5	16QAM	1	MID	19.42	24.54	5.12	13	0.92	20.34	30	Pass
Band4	3	1732.5	16QAM	1	HIGH	19.36	24.11	4.75	13	0.92	20.28	30	Pass
Band4	3	1753.5	QPSK	15	LOW	20.69	27.05	6.36	13	0.92	21.61	30	Pass
Band4	3	1753.5	QPSK	8	LOW	18.97	24.44	5.47	13	0.92	19.89	30	Pass
Band4	3	1753.5	QPSK	8	MID	18.85	24.46	5.61	13	0.92	19.77	30	Pass
Band4	3	1753.5	QPSK	8	HIGH	18.76	24.29	5.53	13	0.92	19.68	30	Pass
Band4	3	1753.5	QPSK	1	LOW	19.98	24.17	4.19	13	0.92	20.9	30	Pass
Band4	3	1753.5	QPSK	1	MID	19.98	24.05	4.07	13	0.92	20.9	30	Pass
Band4	3	1753.5	QPSK	1	HIGH	20.16	24.06	3.9	13	0.92	21.08	30	Pass
Band4	3	1753.5	16QAM	15	LOW	19.8	26.04	6.24	13	0.92	20.72	30	Pass
Band4	3	1753.5	16QAM	8	LOW	18.2	24.24	6.04	13	0.92	19.12	30	Pass
Band4	3	1753.5	16QAM	8	MID	18.08	23.84	5.76	13	0.92	19	30	Pass
Band4	3	1753.5	16QAM	8	HIGH	18.17	24.16	5.99	13	0.92	19.09	30	Pass
Band4	3	1753.5	16QAM	1	LOW	19.08	23.73	4.65	13	0.92	20	30	Pass
Band4	3	1753.5	16QAM	1	MID	19.08	23.58	4.5	13	0.92	20	30	Pass
Band4	3	1753.5	16QAM	1	HIGH	19.19	23.61	4.42	13	0.92	20.11	30	Pass
Band4	5	1712.5	QPSK	25	LOW	20.53	26.72	6.19	13	0.92	21.45	30	Pass
Band4	5	1712.5	QPSK	12	LOW	18.54	24.38	5.84	13	0.92	19.46	30	Pass

Band4	5	1712.5	QPSK	12	MID	18.53	24.54	6.01	13	0.92	19.45	30	Pass
Band4	5	1712.5	QPSK	12	HIGH	18.63	24.49	5.86	13	0.92	19.55	30	Pass
Band4	5	1712.5	QPSK	1	LOW	19.71	25.44	5.73	13	0.92	20.63	30	Pass
Band4	5	1712.5	QPSK	1	MID	19.77	25.63	5.86	13	0.92	20.69	30	Pass
Band4	5	1712.5	QPSK	1	HIGH	19.6	25.58	5.98	13	0.92	20.52	30	Pass
Band4	5	1712.5	16QAM	25	LOW	19.8	26.62	6.82	13	0.92	20.72	30	Pass
Band4	5	1712.5	16QAM	12	LOW	17.86	25.16	7.3	13	0.92	18.78	30	Pass
Band4	5	1712.5	16QAM	12	MID	17.86	25.18	7.32	13	0.92	18.78	30	Pass
Band4	5	1712.5	16QAM	12	HIGH	17.74	25.23	7.49	13	0.92	18.66	30	Pass
Band4	5	1712.5	16QAM	1	LOW	18.12	23.8	5.68	13	0.92	19.04	30	Pass
Band4	5	1712.5	16QAM	1	MID	18.01	23.86	5.85	13	0.92	18.93	30	Pass
Band4	5	1712.5	16QAM	1	HIGH	17.86	23.81	5.95	13	0.92	18.78	30	Pass
Band4	5	1732.5	QPSK	25	LOW	20.63	26.88	6.25	13	0.92	21.55	30	Pass
Band4	5	1732.5	QPSK	12	LOW	18.48	24.7	6.22	13	0.92	19.4	30	Pass
Band4	5	1732.5	QPSK	12	MID	18.51	24.62	6.11	13	0.92	19.43	30	Pass
Band4	5	1732.5	QPSK	12	HIGH	18.63	24.85	6.22	13	0.92	19.55	30	Pass
Band4	5	1732.5	QPSK	1	LOW	19.85	24.91	5.06	13	0.92	20.77	30	Pass
Band4	5	1732.5	QPSK	1	MID	19.71	24.47	4.76	13	0.92	20.63	30	Pass
Band4	5	1732.5	QPSK	1	HIGH	19.77	24.54	4.77	13	0.92	20.69	30	Pass
Band4	5	1732.5	16QAM	25	LOW	19.9	27.41	7.51	13	0.92	20.82	30	Pass
Band4	5	1732.5	16QAM	12	LOW	17.59	24.22	6.63	13	0.92	18.51	30	Pass
Band4	5	1732.5	16QAM	12	MID	17.63	24.29	6.66	13	0.92	18.55	30	Pass
Band4	5	1732.5	16QAM	12	HIGH	17.57	24.24	6.67	13	0.92	18.49	30	Pass
Band4	5	1732.5	16QAM	1	LOW	18.68	24.22	5.54	13	0.92	19.6	30	Pass
Band4	5	1732.5	16QAM	1	MID	18.68	24.25	5.57	13	0.92	19.6	30	Pass
Band4	5	1732.5	16QAM	1	HIGH	18.7	24.26	5.56	13	0.92	19.62	30	Pass
Band4	5	1752.5	QPSK	25	LOW	20.69	26.29	5.6	13	0.92	21.61	30	Pass
Band4	5	1752.5	QPSK	12	LOW	18.76	24.24	5.48	13	0.92	19.68	30	Pass
Band4	5	1752.5	QPSK	12	MID	18.74	24.23	5.49	13	0.92	19.66	30	Pass
Band4	5	1752.5	QPSK	12	HIGH	18.86	24.04	5.18	13	0.92	19.78	30	Pass
Band4	5	1752.5	QPSK	1	LOW	19.71	24.45	4.74	13	0.92	20.63	30	Pass
Band4	5	1752.5	QPSK	1	MID	19.7	24.21	4.51	13	0.92	20.62	30	Pass
Band4	5	1752.5	QPSK	1	HIGH	19.74	24.08	4.34	13	0.92	20.66	30	Pass
Band4	5	1752.5	16QAM	25	LOW	19.86	26.73	6.87	13	0.92	20.78	30	Pass
Band4	5	1752.5	16QAM	12	LOW	17.69	24.24	6.55	13	0.92	18.61	30	Pass
Band4	5	1752.5	16QAM	12	MID	17.81	24.3	6.49	13	0.92	18.73	30	Pass
Band4	5	1752.5	16QAM	12	HIGH	17.85	24.02	6.17	13	0.92	18.77	30	Pass
Band4	5	1752.5	16QAM	1	LOW	18.42	24.3	5.88	13	0.92	19.34	30	Pass
Band4	5	1752.5	16QAM	1	MID	18.43	24.05	5.62	13	0.92	19.35	30	Pass
Band4	5	1752.5	16QAM	1	HIGH	18.4	23.96	5.56	13	0.92	19.32	30	Pass
Band4	10	1715	QPSK	50	LOW	20.62	26.75	6.13	13	0.92	21.54	30	Pass
Band4	10	1715	QPSK	25	LOW	18.58	24.99	6.41	13	0.92	19.5	30	Pass
Band4	10	1715	QPSK	25	MID	18.66	24.94	6.28	13	0.92	19.58	30	Pass
Band4	10	1715	QPSK	25	HIGH	18.63	25.17	6.54	13	0.92	19.55	30	Pass
Band4	10	1715	QPSK	1	LOW	19.49	24.39	4.9	13	0.92	20.41	30	Pass
Band4	10	1715	QPSK	1	MID	19.44	24.57	5.13	13	0.92	20.36	30	Pass

Band4	10	1715	QPSK	1	HIGH	19.61	24.6	4.99	13	0.92	20.53	30	Pass
Band4	10	1715	16QAM	50	LOW	19.75	27.31	7.56	13	0.92	20.67	30	Pass
Band4	10	1715	16QAM	25	LOW	17.71	25.01	7.3	13	0.92	18.63	30	Pass
Band4	10	1715	16QAM	25	MID	17.71	25.09	7.38	13	0.92	18.63	30	Pass
Band4	10	1715	16QAM	25	HIGH	17.72	25.22	7.5	13	0.92	18.64	30	Pass
Band4	10	1715	16QAM	1	LOW	19.06	25.16	6.1	13	0.92	19.98	30	Pass
Band4	10	1715	16QAM	1	MID	18.94	25.25	6.31	13	0.92	19.86	30	Pass
Band4	10	1715	16QAM	1	HIGH	18.99	25.14	6.15	13	0.92	19.91	30	Pass
Band4	10	1732.5	QPSK	50	LOW	20.68	26.73	6.05	13	0.92	21.6	30	Pass
Band4	10	1732.5	QPSK	25	LOW	18.51	24.41	5.9	13	0.92	19.43	30	Pass
Band4	10	1732.5	QPSK	25	MID	18.54	24.44	5.9	13	0.92	19.46	30	Pass
Band4	10	1732.5	QPSK	25	HIGH	18.58	24.73	6.15	13	0.92	19.5	30	Pass
Band4	10	1732.5	QPSK	1	LOW	19.86	24.48	4.62	13	0.92	20.78	30	Pass
Band4	10	1732.5	QPSK	1	MID	19.82	24.52	4.7	13	0.92	20.74	30	Pass
Band4	10	1732.5	QPSK	1	HIGH	19.82	24.69	4.87	13	0.92	20.74	30	Pass
Band4	10	1732.5	16QAM	50	LOW	19.92	26.85	6.93	13	0.92	20.84	30	Pass
Band4	10	1732.5	16QAM	25	LOW	17.76	24.9	7.14	13	0.92	18.68	30	Pass
Band4	10	1732.5	16QAM	25	MID	17.8	24.94	7.14	13	0.92	18.72	30	Pass
Band4	10	1732.5	16QAM	25	HIGH	17.73	24.9	7.17	13	0.92	18.65	30	Pass
Band4	10	1732.5	16QAM	1	LOW	19.4	24.07	4.67	13	0.92	20.32	30	Pass
Band4	10	1732.5	16QAM	1	MID	19.43	24.04	4.61	13	0.92	20.35	30	Pass
Band4	10	1732.5	16QAM	1	HIGH	19.42	24.9	5.48	13	0.92	20.34	30	Pass
Band4	10	1750	QPSK	50	LOW	20.8	26.3	5.5	13	0.92	21.72	30	Pass
Band4	10	1750	QPSK	25	LOW	18.72	24.84	6.12	13	0.92	19.64	30	Pass
Band4	10	1750	QPSK	25	MID	18.69	25.02	6.33	13	0.92	19.61	30	Pass
Band4	10	1750	QPSK	25	HIGH	18.84	24.75	5.91	13	0.92	19.76	30	Pass
Band4	10	1750	QPSK	1	LOW	19.79	24.69	4.9	13	0.92	20.71	30	Pass
Band4	10	1750	QPSK	1	MID	19.94	24.31	4.37	13	0.92	20.86	30	Pass
Band4	10	1750	QPSK	1	HIGH	20.05	24.04	3.99	13	0.92	20.97	30	Pass
Band4	10	1750	16QAM	50	LOW	19.88	26.92	7.04	13	0.92	20.8	30	Pass
Band4	10	1750	16QAM	25	LOW	17.98	24.83	6.85	13	0.92	18.9	30	Pass
Band4	10	1750	16QAM	25	MID	17.97	24.73	6.76	13	0.92	18.89	30	Pass
Band4	10	1750	16QAM	25	HIGH	18.06	24.55	6.49	13	0.92	18.98	30	Pass
Band4	10	1750	16QAM	1	LOW	18.51	23.48	4.97	13	0.92	19.43	30	Pass
Band4	10	1750	16QAM	1	MID	18.7	23.64	4.94	13	0.92	19.62	30	Pass
Band4	10	1750	16QAM	1	HIGH	18.69	23.4	4.71	13	0.92	19.61	30	Pass
Band4	15	1717.5	QPSK	75	LOW	20.62	27.22	6.6	13	0.92	21.54	30	Pass
Band4	15	1717.5	QPSK	38	LOW	18.69	25.67	6.98	13	0.92	19.61	30	Pass
Band4	15	1717.5	QPSK	38	MID	18.69	25.69	7	13	0.92	19.61	30	Pass
Band4	15	1717.5	QPSK	38	HIGH	18.7	25.68	6.98	13	0.92	19.62	30	Pass
Band4	15	1717.5	QPSK	1	LOW	19.59	24.69	5.1	13	0.92	20.51	30	Pass
Band4	15	1717.5	QPSK	1	MID	19.63	24.71	5.08	13	0.92	20.55	30	Pass
Band4	15	1717.5	QPSK	1	HIGH	19.74	24.39	4.65	13	0.92	20.66	30	Pass
Band4	15	1717.5	16QAM	75	LOW	19.79	26.99	7.2	13	0.92	20.71	30	Pass
Band4	15	1717.5	16QAM	38	LOW	17.65	25.22	7.57	13	0.92	18.57	30	Pass
Band4	15	1717.5	16QAM	38	MID	17.66	25.33	7.67	13	0.92	18.58	30	Pass

Band4	15	1717.5	16QAM	38	HIGH	17.66	25.34	7.68	13	0.92	18.58	30	Pass
Band4	15	1717.5	16QAM	1	LOW	19.22	25.59	6.37	13	0.92	20.14	30	Pass
Band4	15	1717.5	16QAM	1	MID	19.27	25.44	6.17	13	0.92	20.19	30	Pass
Band4	15	1717.5	16QAM	1	HIGH	19.21	24.87	5.66	13	0.92	20.13	30	Pass
Band4	15	1732.5	QPSK	75	LOW	20.71	27.25	6.54	13	0.92	21.63	30	Pass
Band4	15	1732.5	QPSK	38	LOW	18.56	25.36	6.8	13	0.92	19.48	30	Pass
Band4	15	1732.5	QPSK	38	MID	18.56	25.11	6.55	13	0.92	19.48	30	Pass
Band4	15	1732.5	QPSK	38	HIGH	18.57	25.31	6.74	13	0.92	19.49	30	Pass
Band4	15	1732.5	QPSK	1	LOW	19.77	24.55	4.78	13	0.92	20.69	30	Pass
Band4	15	1732.5	QPSK	1	MID	19.82	24.55	4.73	13	0.92	20.74	30	Pass
Band4	15	1732.5	QPSK	1	HIGH	19.84	24.66	4.82	13	0.92	20.76	30	Pass
Band4	15	1732.5	16QAM	75	LOW	19.85	26.94	7.09	13	0.92	20.77	30	Pass
Band4	15	1732.5	16QAM	38	LOW	17.66	25.03	7.37	13	0.92	18.58	30	Pass
Band4	15	1732.5	16QAM	38	MID	17.68	25.09	7.41	13	0.92	18.6	30	Pass
Band4	15	1732.5	16QAM	38	HIGH	17.7	25.06	7.36	13	0.92	18.62	30	Pass
Band4	15	1732.5	16QAM	1	LOW	18.88	24.32	5.44	13	0.92	19.8	30	Pass
Band4	15	1732.5	16QAM	1	MID	18.96	23.83	4.87	13	0.92	19.88	30	Pass
Band4	15	1732.5	16QAM	1	HIGH	18.93	24.63	5.7	13	0.92	19.85	30	Pass
Band4	15	1747.5	QPSK	75	LOW	20.66	26.96	6.3	13	0.92	21.58	30	Pass
Band4	15	1747.5	QPSK	38	LOW	18.75	25.34	6.59	13	0.92	19.67	30	Pass
Band4	15	1747.5	QPSK	38	MID	18.74	25.29	6.55	13	0.92	19.66	30	Pass
Band4	15	1747.5	QPSK	38	HIGH	18.73	25.29	6.56	13	0.92	19.65	30	Pass
Band4	15	1747.5	QPSK	1	LOW	19.7	24.63	4.93	13	0.92	20.62	30	Pass
Band4	15	1747.5	QPSK	1	MID	19.74	24.25	4.51	13	0.92	20.66	30	Pass
Band4	15	1747.5	QPSK	1	HIGH	19.91	23.93	4.02	13	0.92	20.83	30	Pass
Band4	15	1747.5	16QAM	75	LOW	19.98	26.87	6.89	13	0.92	20.9	30	Pass
Band4	15	1747.5	16QAM	38	LOW	17.87	25.05	7.18	13	0.92	18.79	30	Pass
Band4	15	1747.5	16QAM	38	MID	17.87	25.13	7.26	13	0.92	18.79	30	Pass
Band4	15	1747.5	16QAM	38	HIGH	17.88	25.1	7.22	13	0.92	18.8	30	Pass
Band4	15	1747.5	16QAM	1	LOW	19.32	24.93	5.61	13	0.92	20.24	30	Pass
Band4	15	1747.5	16QAM	1	MID	19.3	24.06	4.76	13	0.92	20.22	30	Pass
Band4	15	1747.5	16QAM	1	HIGH	19.35	24.16	4.81	13	0.92	20.27	30	Pass
Band4	20	1720	QPSK	100	LOW	20.73	26.79	6.06	13	0.92	21.65	30	Pass
Band4	20	1720	QPSK	50	LOW	18.52	25.03	6.51	13	0.92	19.44	30	Pass
Band4	20	1720	QPSK	50	MID	18.62	25.07	6.45	13	0.92	19.54	30	Pass
Band4	20	1720	QPSK	50	HIGH	18.69	24.92	6.23	13	0.92	19.61	30	Pass
Band4	20	1720	QPSK	1	LOW	19.81	25.21	5.4	13	0.92	20.73	30	Pass
Band4	20	1720	QPSK	1	MID	19.78	24.82	5.04	13	0.92	20.7	30	Pass
Band4	20	1720	QPSK	1	HIGH	19.92	24.54	4.62	13	0.92	20.84	30	Pass
Band4	20	1720	16QAM	100	LOW	19.82	27.4	7.58	13	0.92	20.74	30	Pass
Band4	20	1720	16QAM	50	LOW	17.83	25.7	7.87	13	0.92	18.75	30	Pass
Band4	20	1720	16QAM	50	MID	17.82	25.65	7.83	13	0.92	18.74	30	Pass
Band4	20	1720	16QAM	50	HIGH	17.75	25.23	7.48	13	0.92	18.67	30	Pass
Band4	20	1720	16QAM	1	LOW	19	25.97	6.97	13	0.92	19.92	30	Pass
Band4	20	1720	16QAM	1	MID	19.02	24.7	5.68	13	0.92	19.94	30	Pass
Band4	20	1720	16QAM	1	HIGH	18.95	25.47	6.52	13	0.92	19.87	30	Pass

Band4	20	1732.5	QPSK	100	LOW	20.73	27.02	6.29	13	0.92	21.65	30	Pass
Band4	20	1732.5	QPSK	50	LOW	18.67	24.8	6.13	13	0.92	19.59	30	Pass
Band4	20	1732.5	QPSK	50	MID	18.7	24.86	6.16	13	0.92	19.62	30	Pass
Band4	20	1732.5	QPSK	50	HIGH	18.63	24.72	6.09	13	0.92	19.55	30	Pass
Band4	20	1732.5	QPSK	1	LOW	19.88	25.21	5.33	13	0.92	20.8	30	Pass
Band4	20	1732.5	QPSK	1	MID	19.99	24.72	4.73	13	0.92	20.91	30	Pass
Band4	20	1732.5	QPSK	1	HIGH	19.79	25.6	5.81	13	0.92	20.71	30	Pass
Band4	20	1732.5	16QAM	100	LOW	19.74	27.1	7.36	13	0.92	20.66	30	Pass
Band4	20	1732.5	16QAM	50	LOW	17.76	24.82	7.06	13	0.92	18.68	30	Pass
Band4	20	1732.5	16QAM	50	MID	17.69	24.7	7.01	13	0.92	18.61	30	Pass
Band4	20	1732.5	16QAM	50	HIGH	17.76	24.86	7.1	13	0.92	18.68	30	Pass
Band4	20	1732.5	16QAM	1	LOW	18.85	24.84	5.99	13	0.92	19.77	30	Pass
Band4	20	1732.5	16QAM	1	MID	18.72	24.7	5.98	13	0.92	19.64	30	Pass
Band4	20	1732.5	16QAM	1	HIGH	18.85	24.94	6.09	13	0.92	19.77	30	Pass
Band4	20	1745	QPSK	100	LOW	20.68	26.93	6.25	13	0.92	21.6	30	Pass
Band4	20	1745	QPSK	50	LOW	18.75	24.88	6.13	13	0.92	19.67	30	Pass
Band4	20	1745	QPSK	50	MID	18.73	24.84	6.11	13	0.92	19.65	30	Pass
Band4	20	1745	QPSK	50	HIGH	18.8	24.72	5.92	13	0.92	19.72	30	Pass
Band4	20	1745	QPSK	1	LOW	19.79	24.82	5.03	13	0.92	20.71	30	Pass
Band4	20	1745	QPSK	1	MID	19.88	24.73	4.85	13	0.92	20.8	30	Pass
Band4	20	1745	QPSK	1	HIGH	20	24.37	4.37	13	0.92	20.92	30	Pass
Band4	20	1745	16QAM	100	LOW	19.91	27.05	7.14	13	0.92	20.83	30	Pass
Band4	20	1745	16QAM	50	LOW	17.87	25.01	7.14	13	0.92	18.79	30	Pass
Band4	20	1745	16QAM	50	MID	17.86	25.08	7.22	13	0.92	18.78	30	Pass
Band4	20	1745	16QAM	50	HIGH	17.91	24.86	6.95	13	0.92	18.83	30	Pass
Band4	20	1745	16QAM	1	LOW	19.27	24.89	5.62	13	0.92	20.19	30	Pass
Band4	20	1745	16QAM	1	MID	19.49	24.63	5.14	13	0.92	20.41	30	Pass
Band4	20	1745	16QAM	1	HIGH	19.63	24.87	5.24	13	0.92	20.55	30	Pass