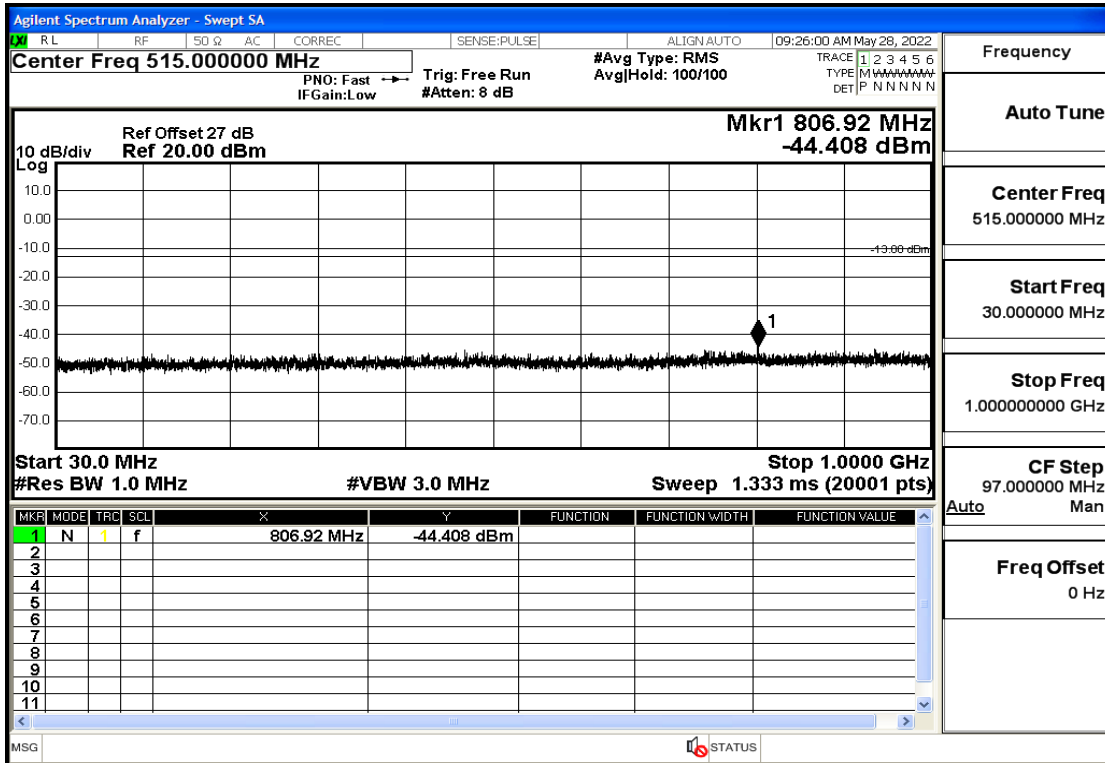
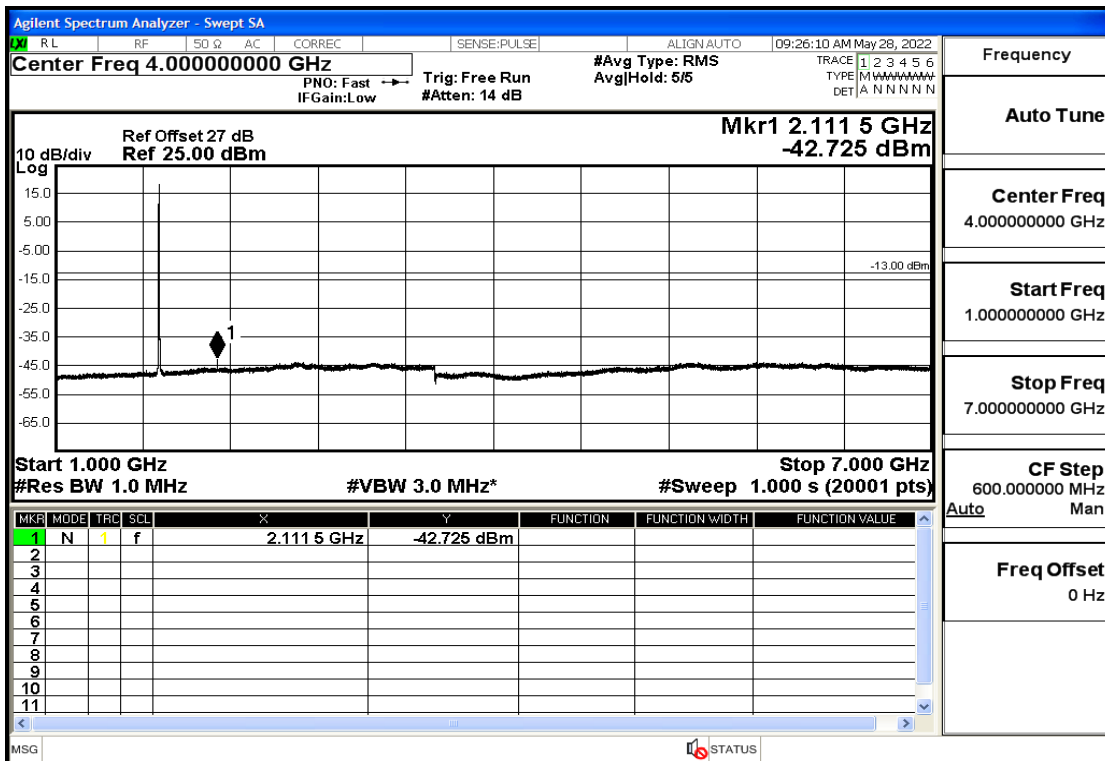


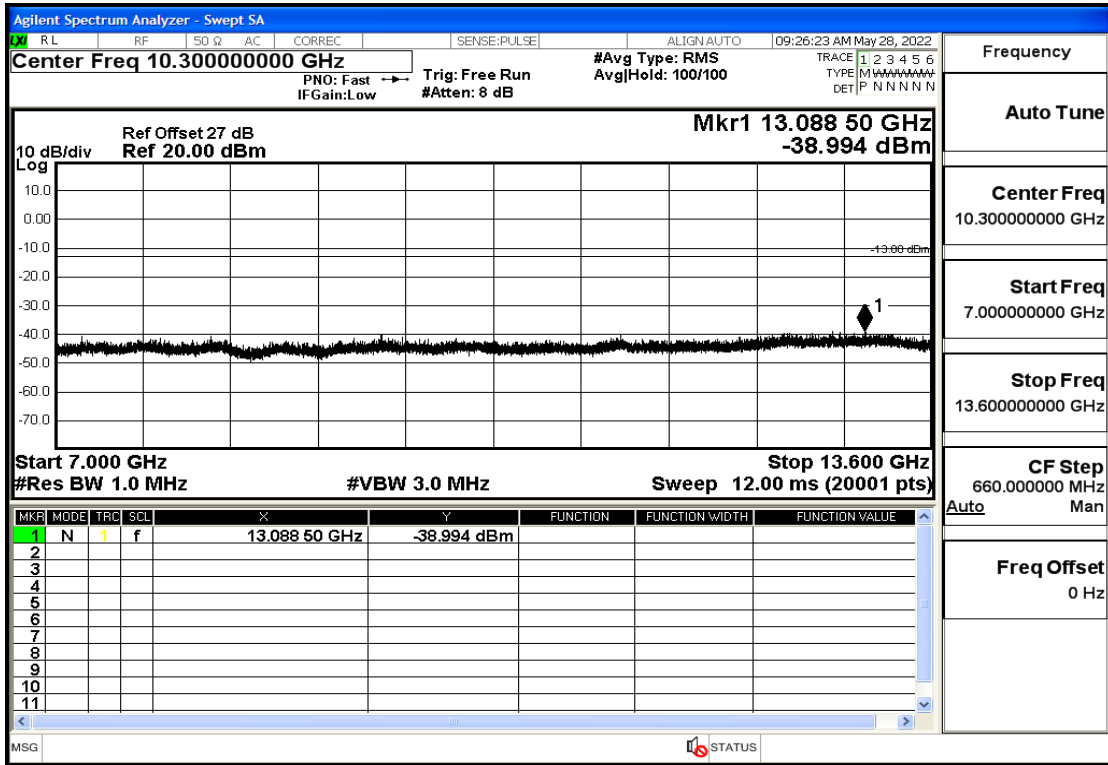
OB4-3-1711.5-Q16-15#LOW@30mHz-1GHz@Pass



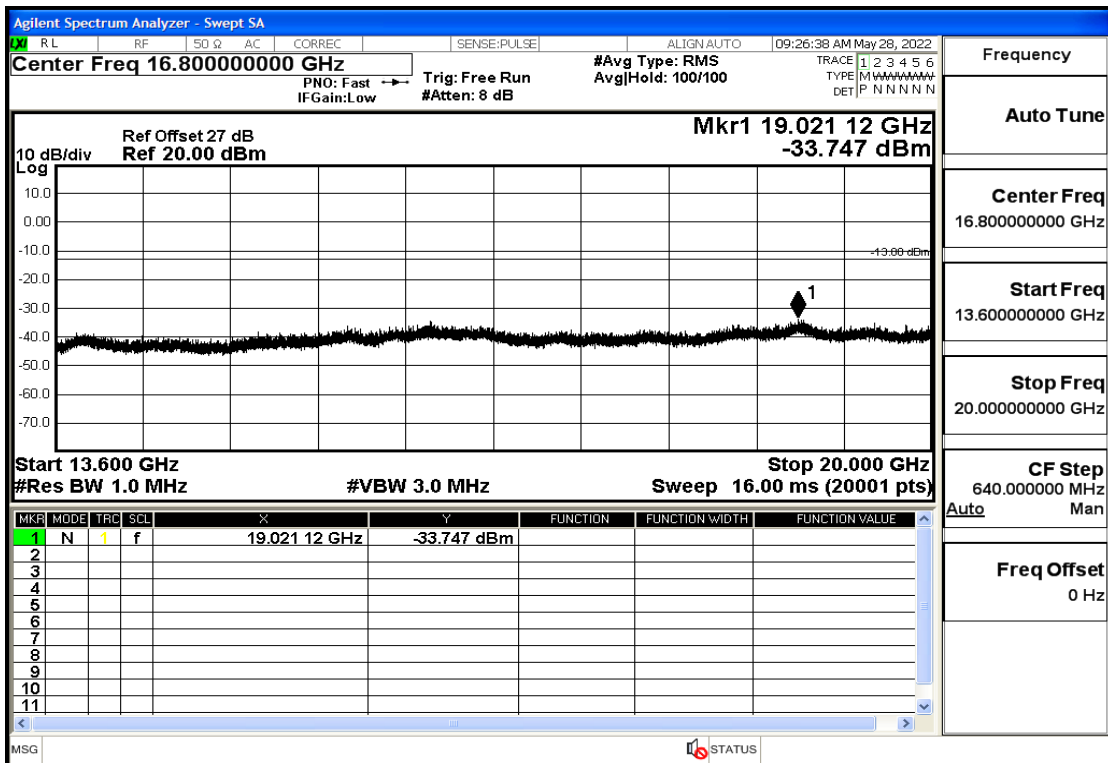
OB4-3-1711.5-Q16-15#LOW@1GHz-7GHz@Pass



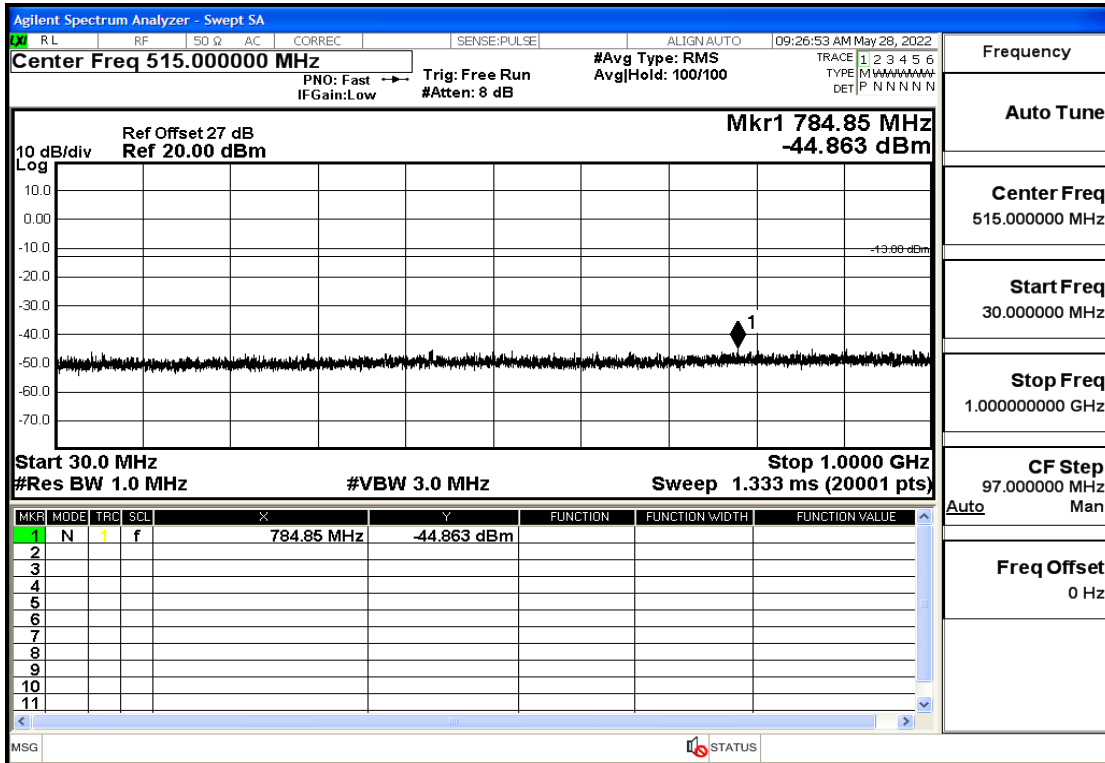
OB4-3-1711.5-Q16-15#LOW@7GHz-13.6GHz@Pass



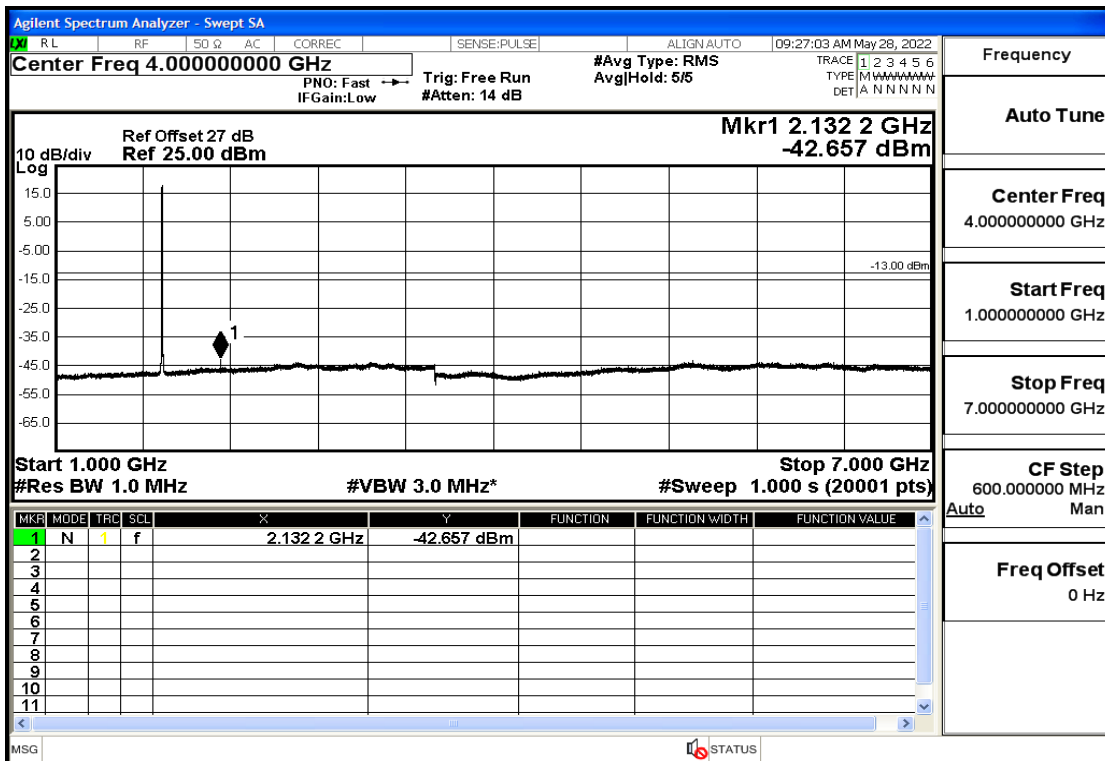
OB4-3-1711.5-Q16-15#LOW@13.6GHz-20GHz@Pass



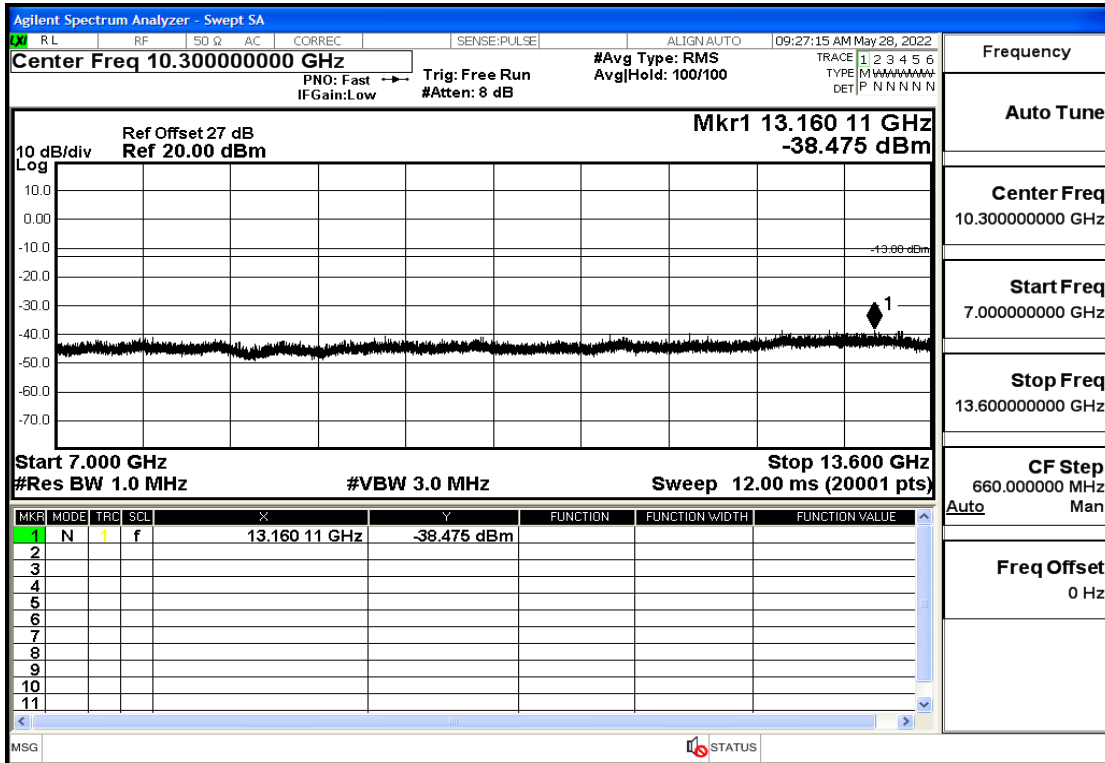
OB4-3-1732.5-Q16-15#LOW@30mHz-1GHz@Pass



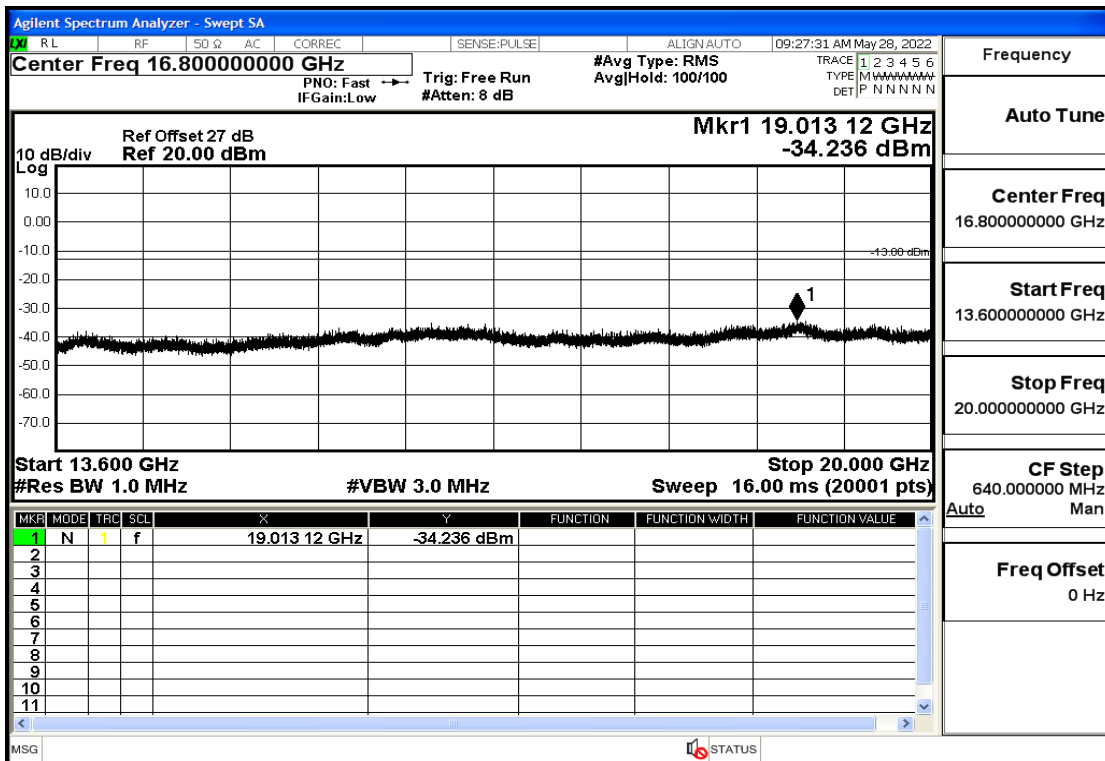
OB4-3-1732.5-Q16-15#LOW@1GHz-7GHz@Pass



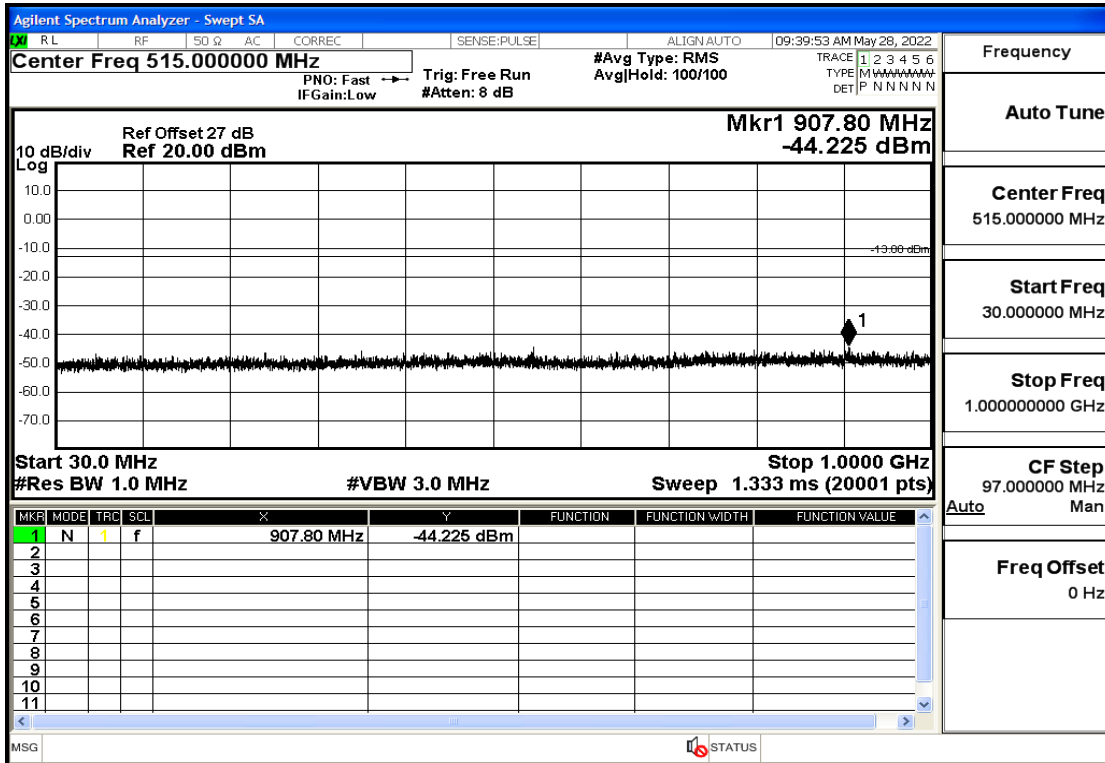
OB4-3-1732.5-Q16-15#LOW@7GHz-13.6GHz@Pass



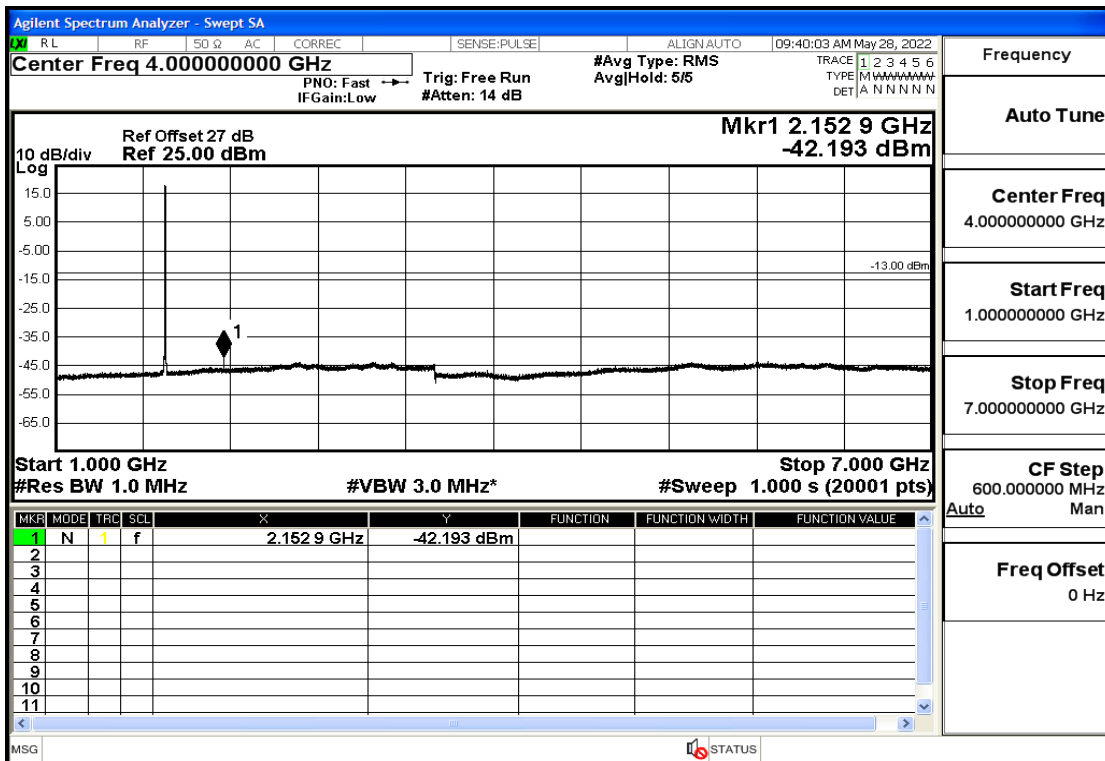
OB4-3-1732.5-Q16-15#LOW@13.6GHz-20GHz@Pass



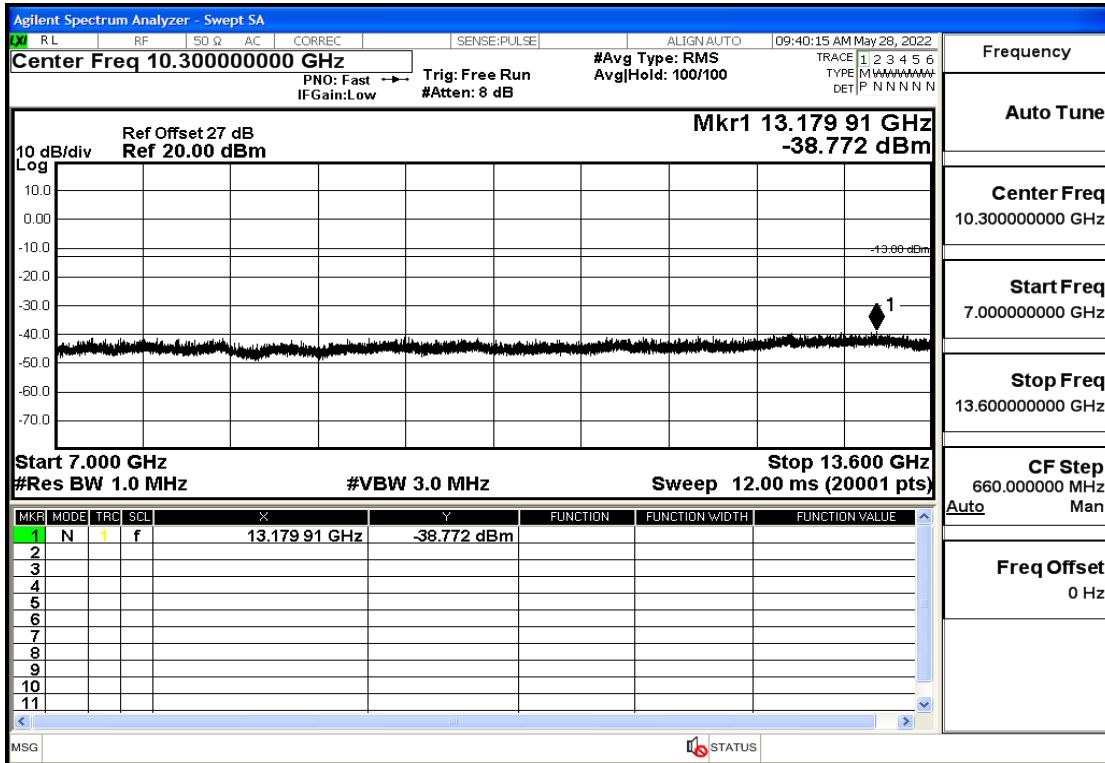
OB4-3-1753.5-Q16-15#LOW@30mHz-1GHz@Pass



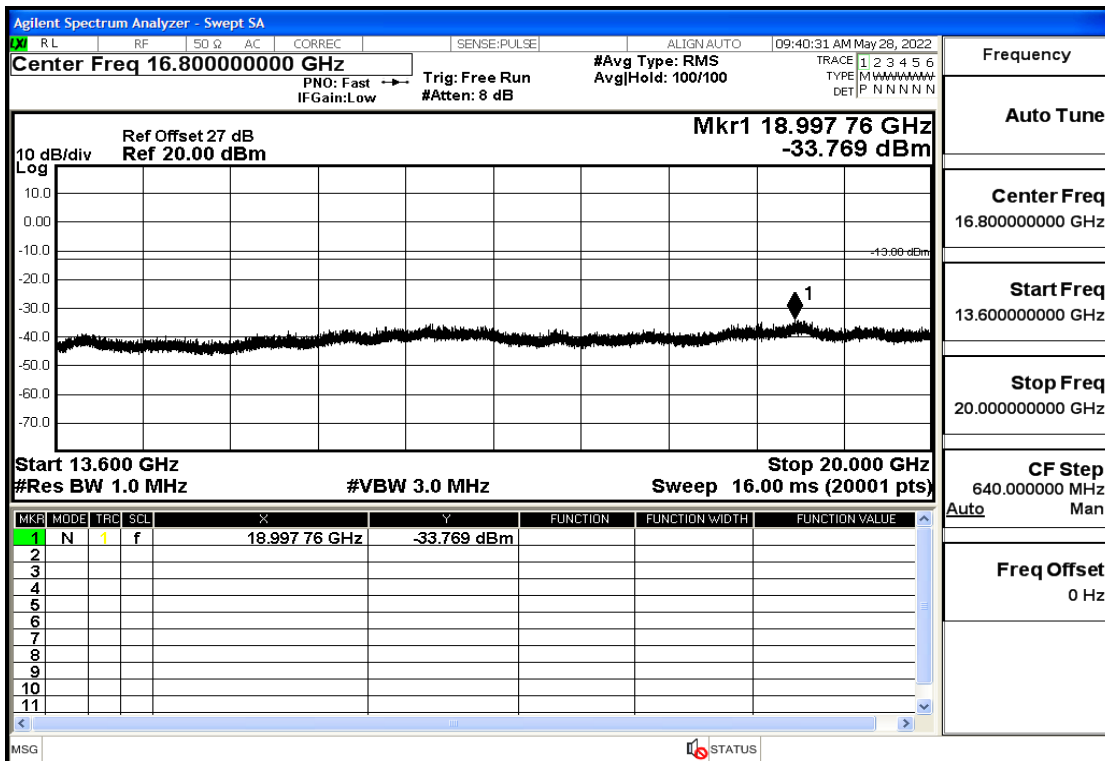
OB4-3-1753.5-Q16-15#LOW@1GHz-7GHz@Pass



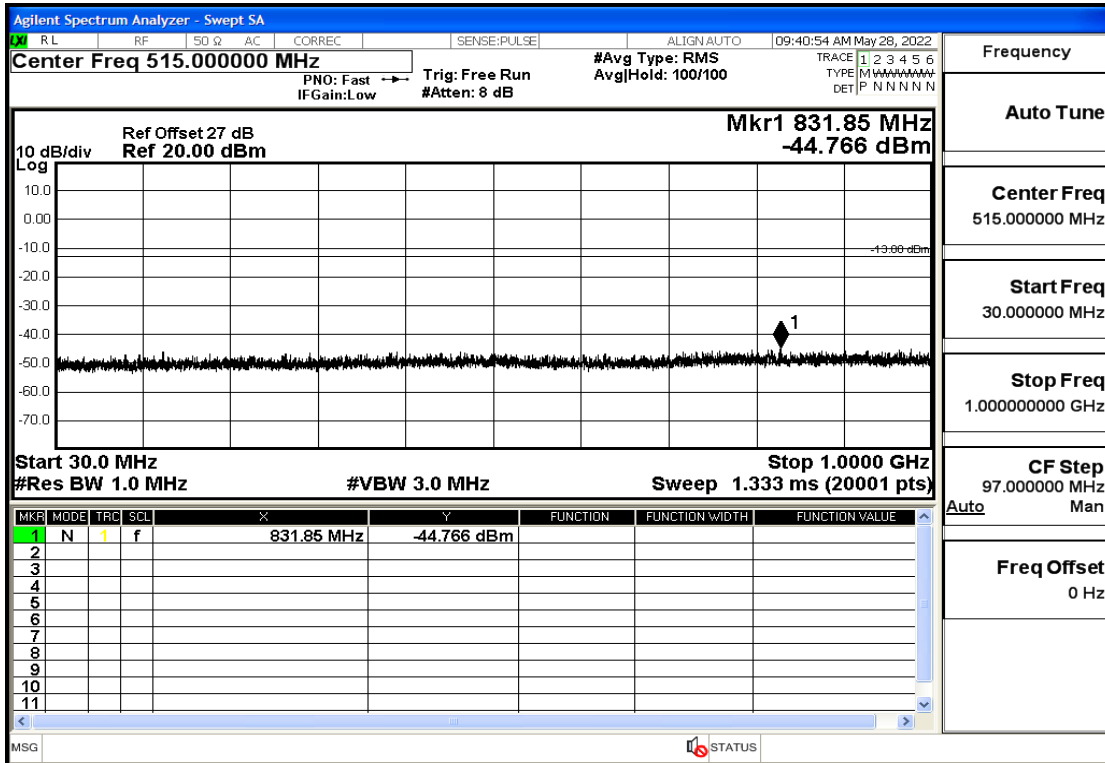
OB4-3-1753.5-Q16-15#LOW@7GHz-13.6GHz@Pass



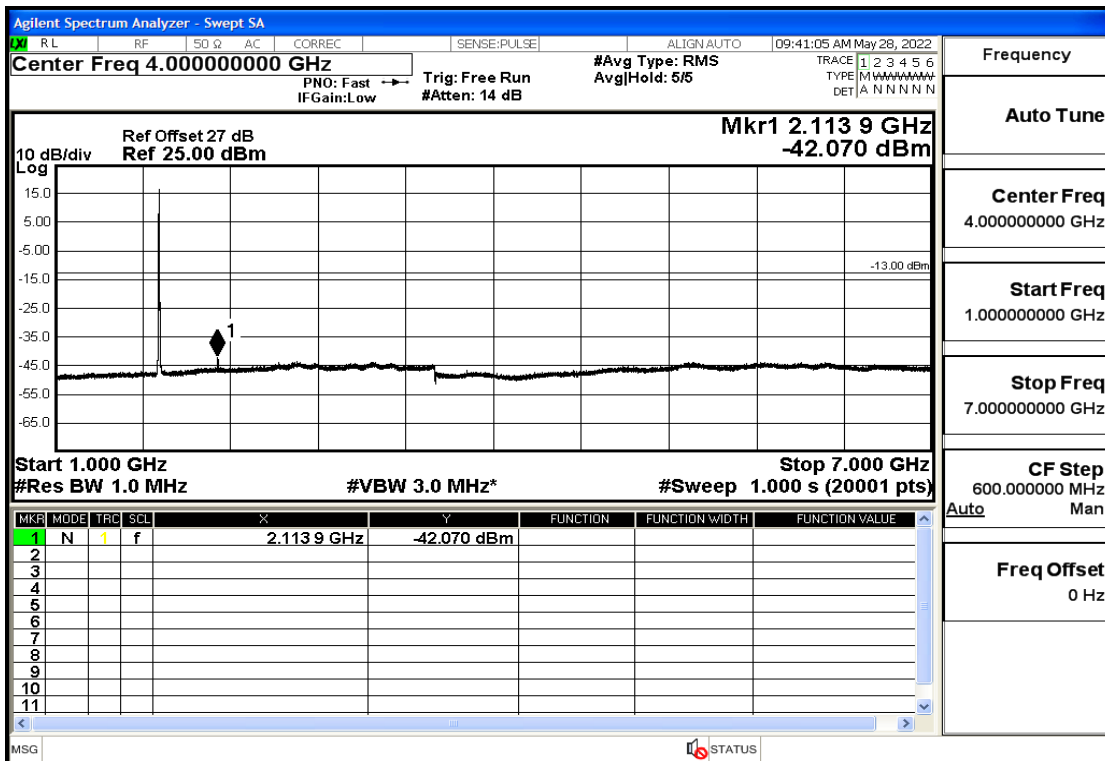
OB4-3-1753.5-Q16-15#LOW@13.6GHz-20GHz@Pass



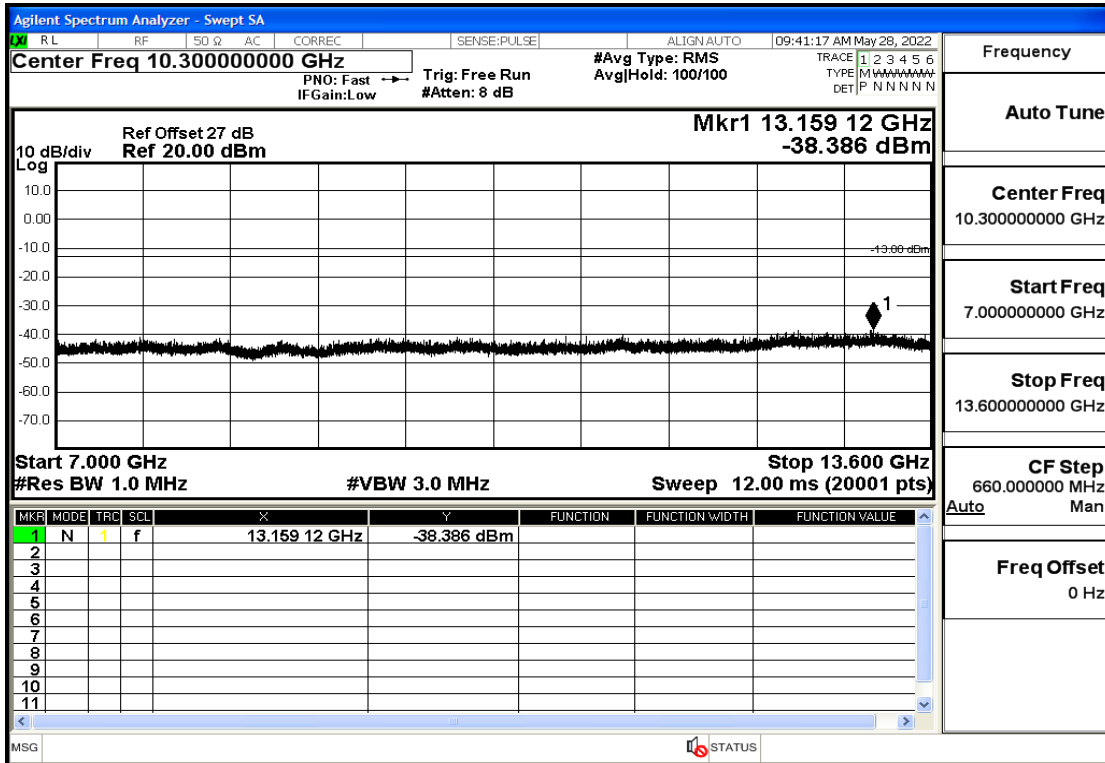
OB4-5-1712.5-Q16-25#LOW@30mHz-1GHz@Pass



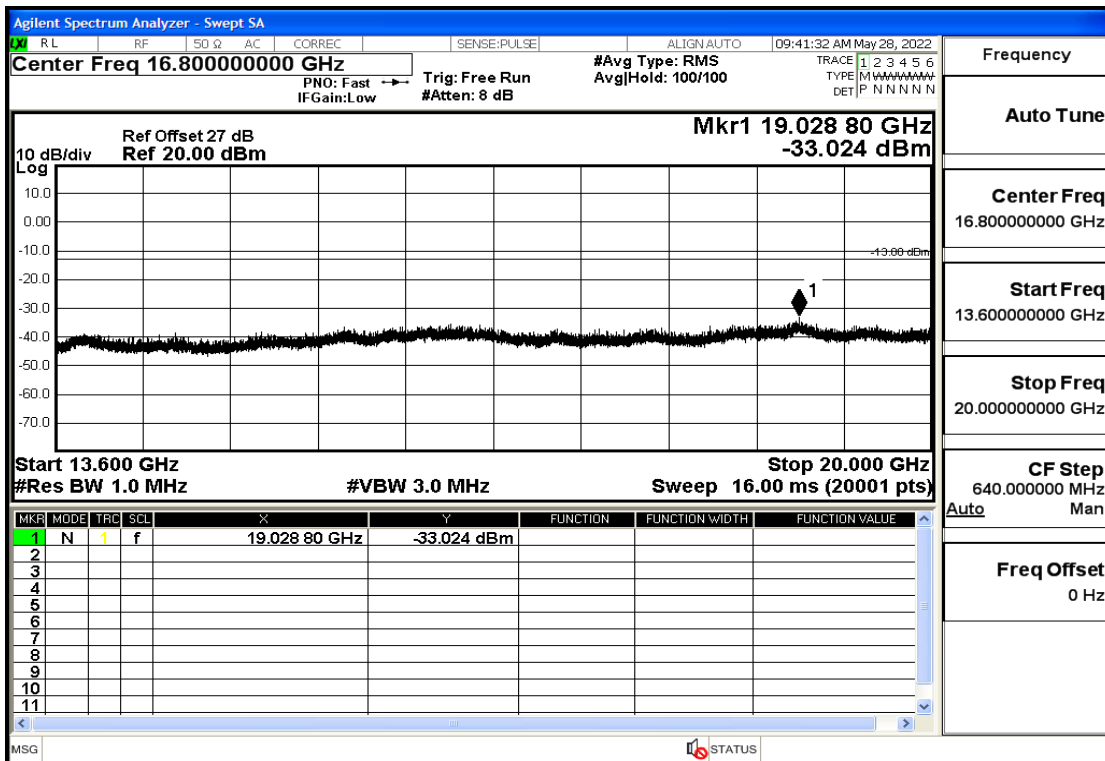
OB4-5-1712.5-Q16-25#LOW@1GHz-7GHz@Pass



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

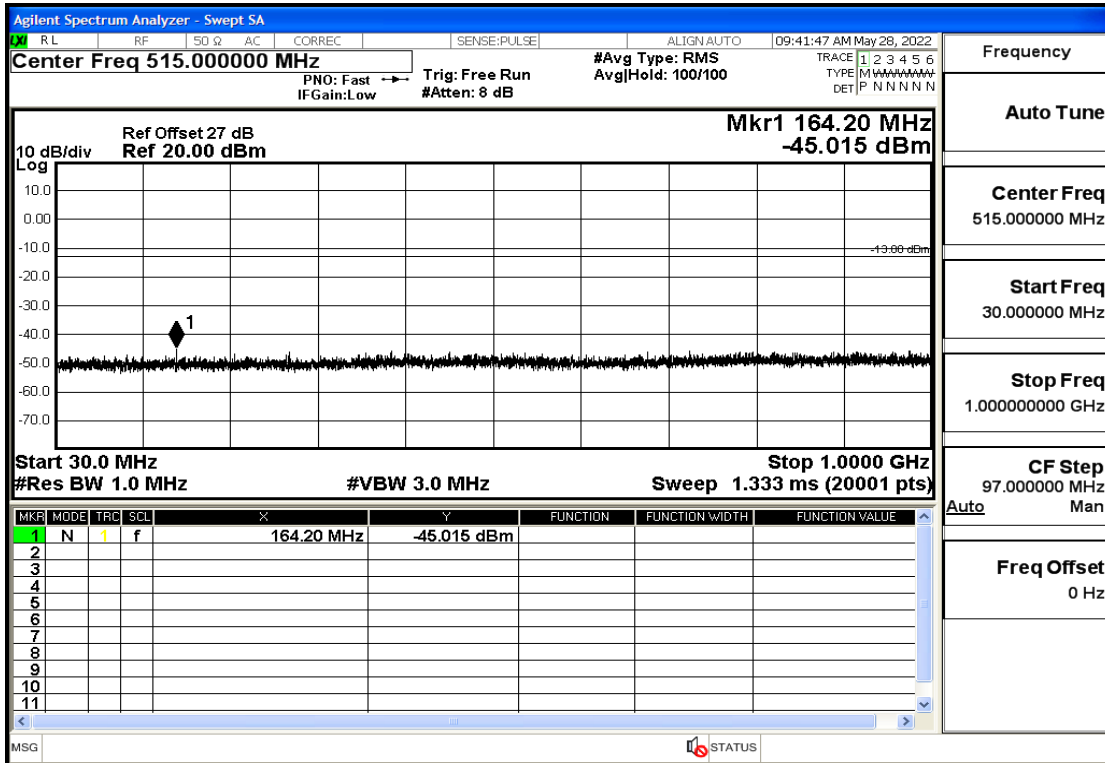


OB4-5-1712.5-Q16-25#LOW@13.6GHz-20GHz@Pass

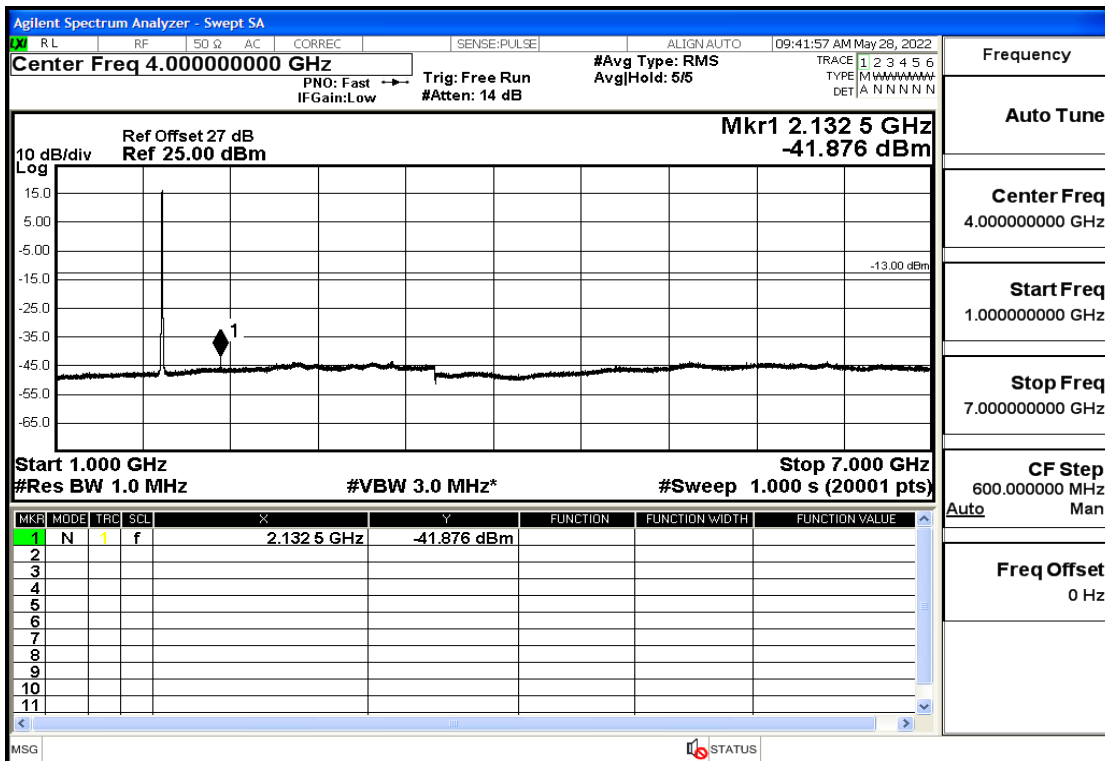




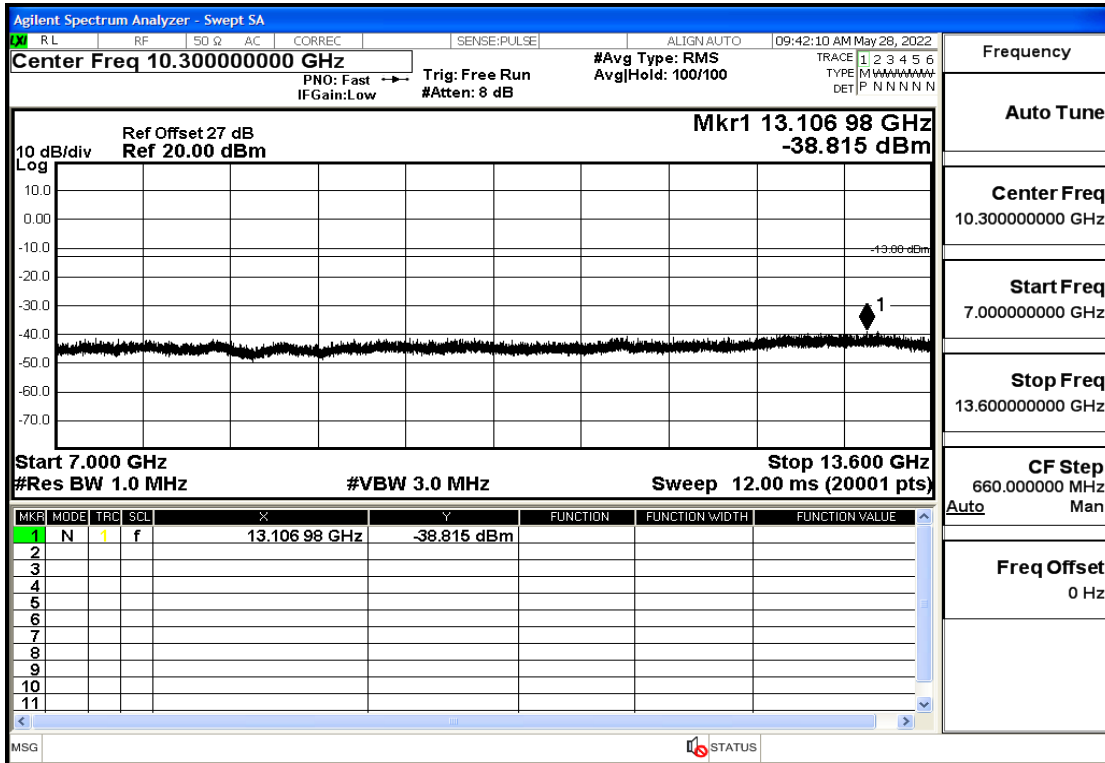
OB4-5-1732.5-Q16-25#LOW@30mHz-1GHz@Pass



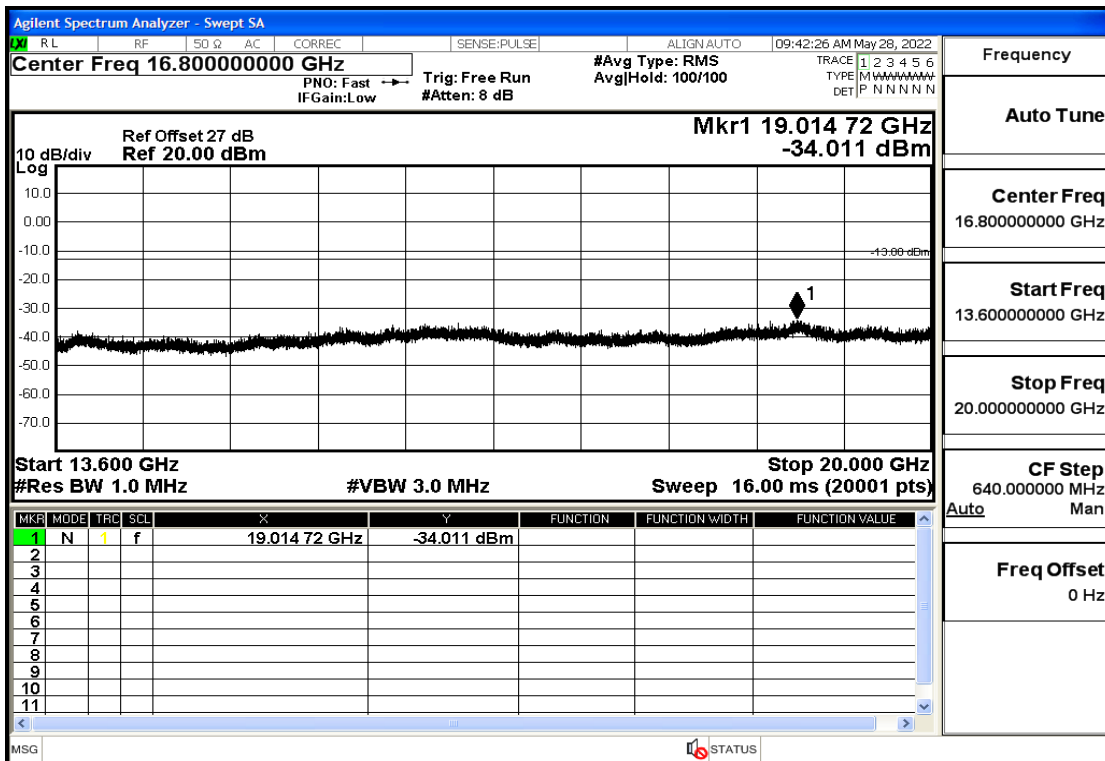
OB4-5-1732.5-Q16-25#LOW@1GHz-7GHz@Pass



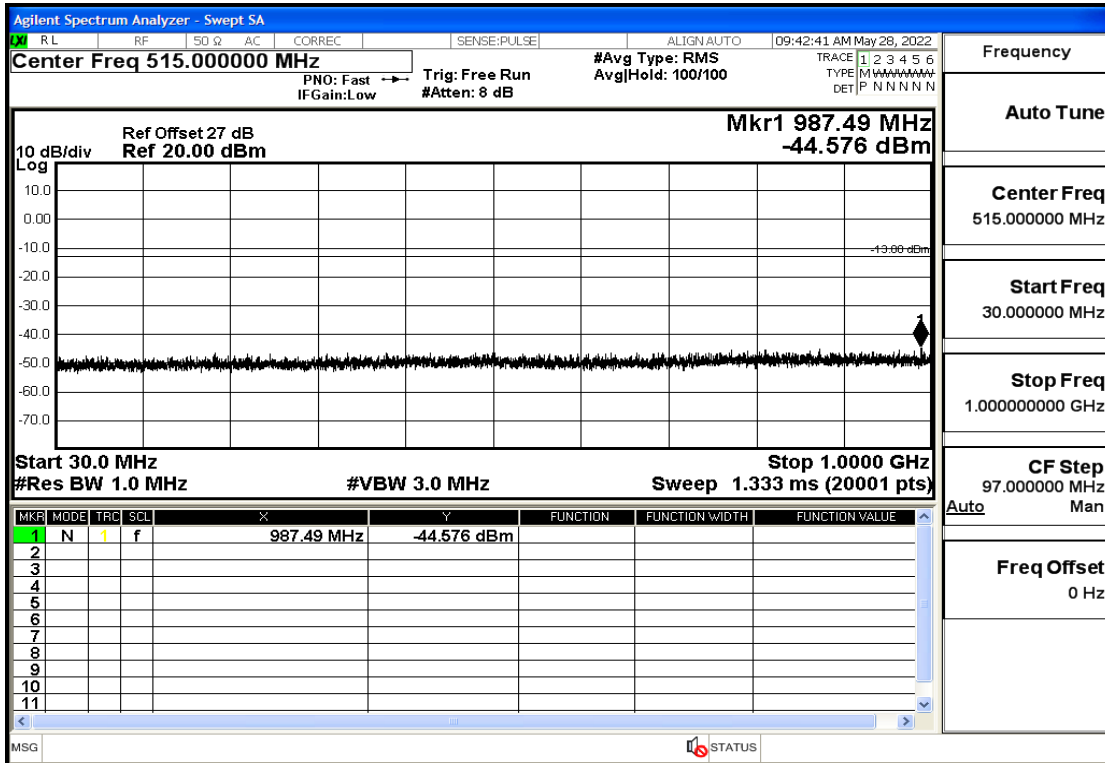
OB4-5-1732.5-Q16-25#LOW@7GHz-13.6GHz@Pass



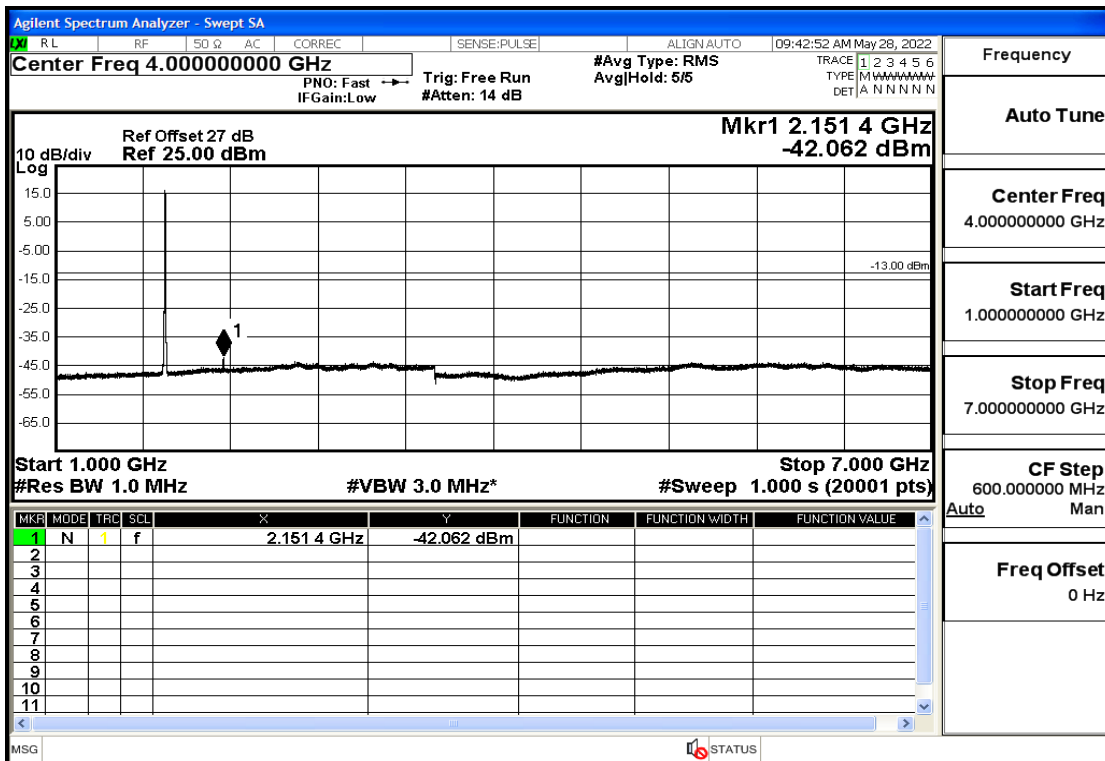
OB4-5-1732.5-Q16-25#LOW@13.6GHz-20GHz@Pass



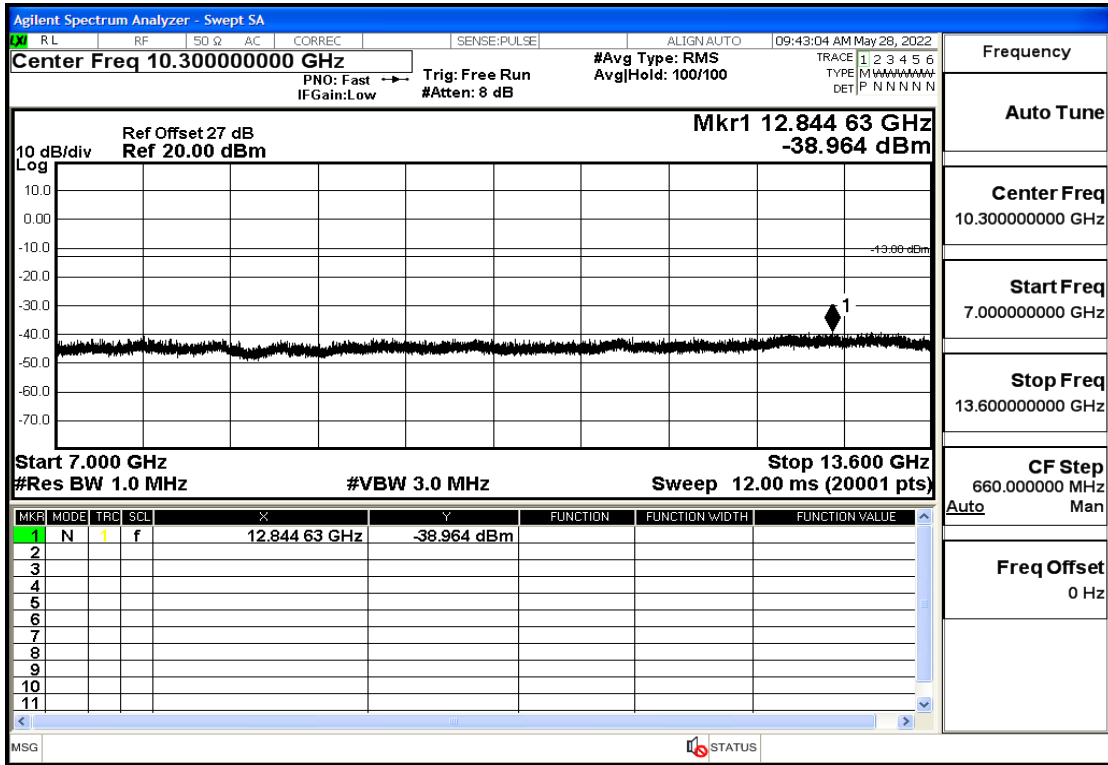
OB4-5-1752.5-Q16-25#LOW@30mHz-1GHz@Pass



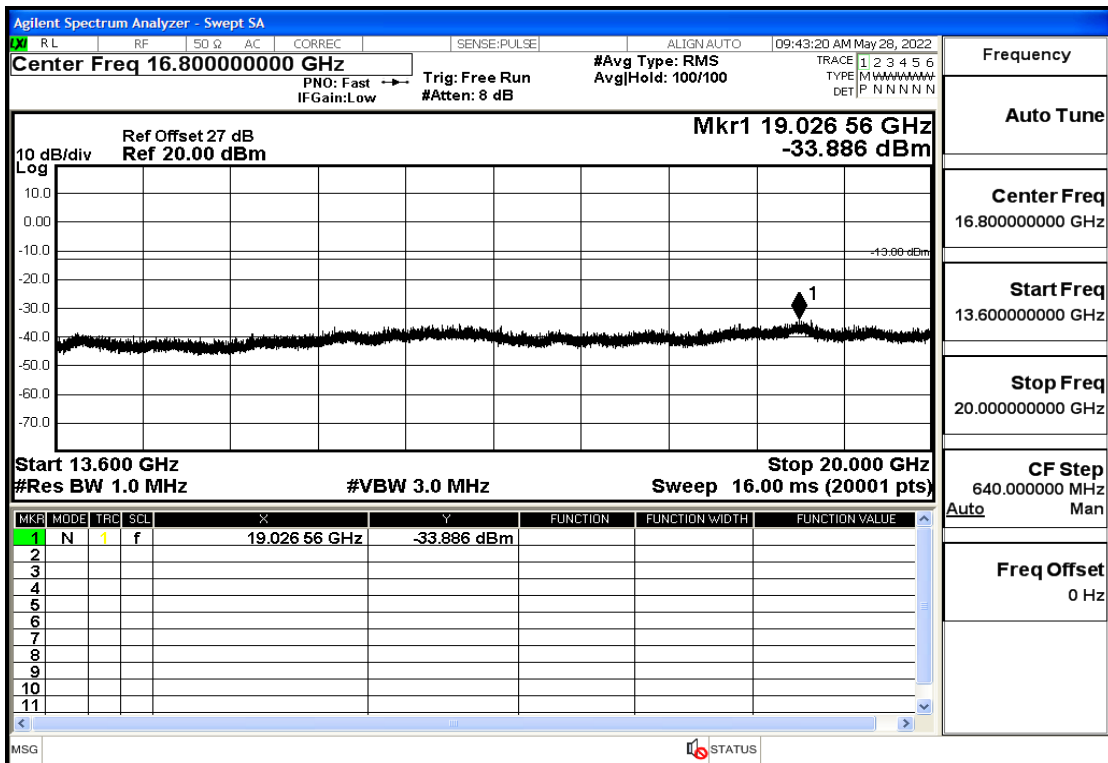
OB4-5-1752.5-Q16-25#LOW@1GHz-7GHz@Pass



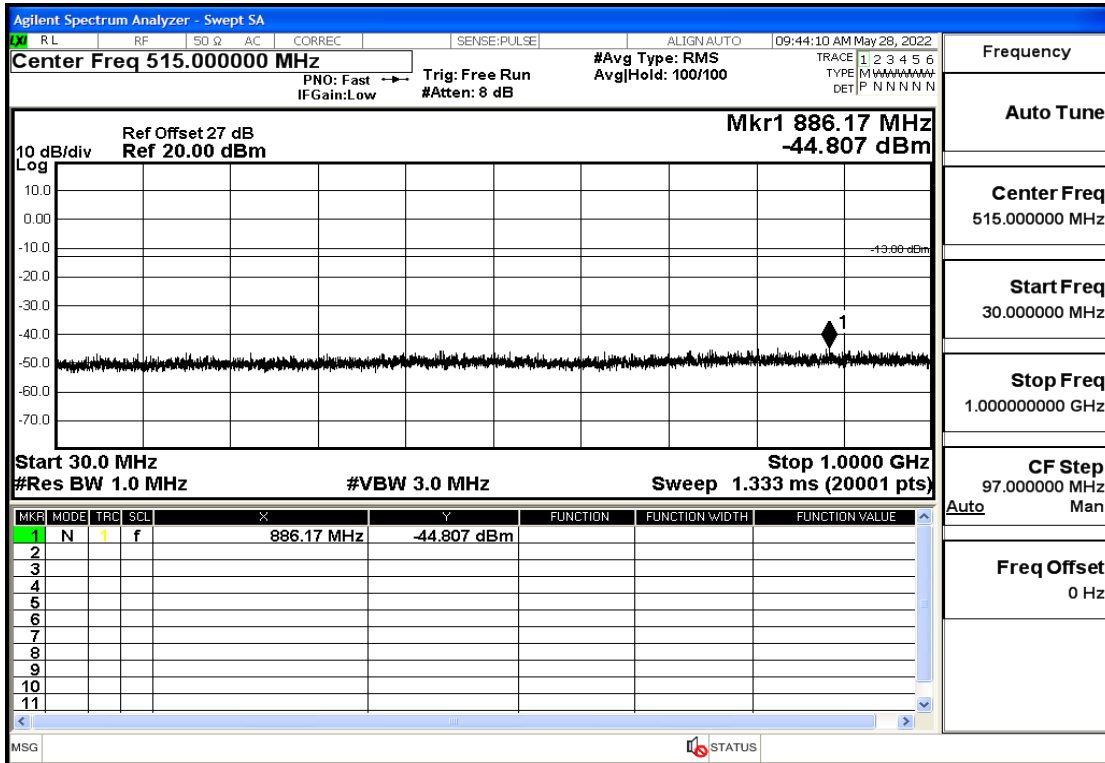
OB4-5-1752.5-Q16-25#LOW@7GHz-13.6GHz@Pass



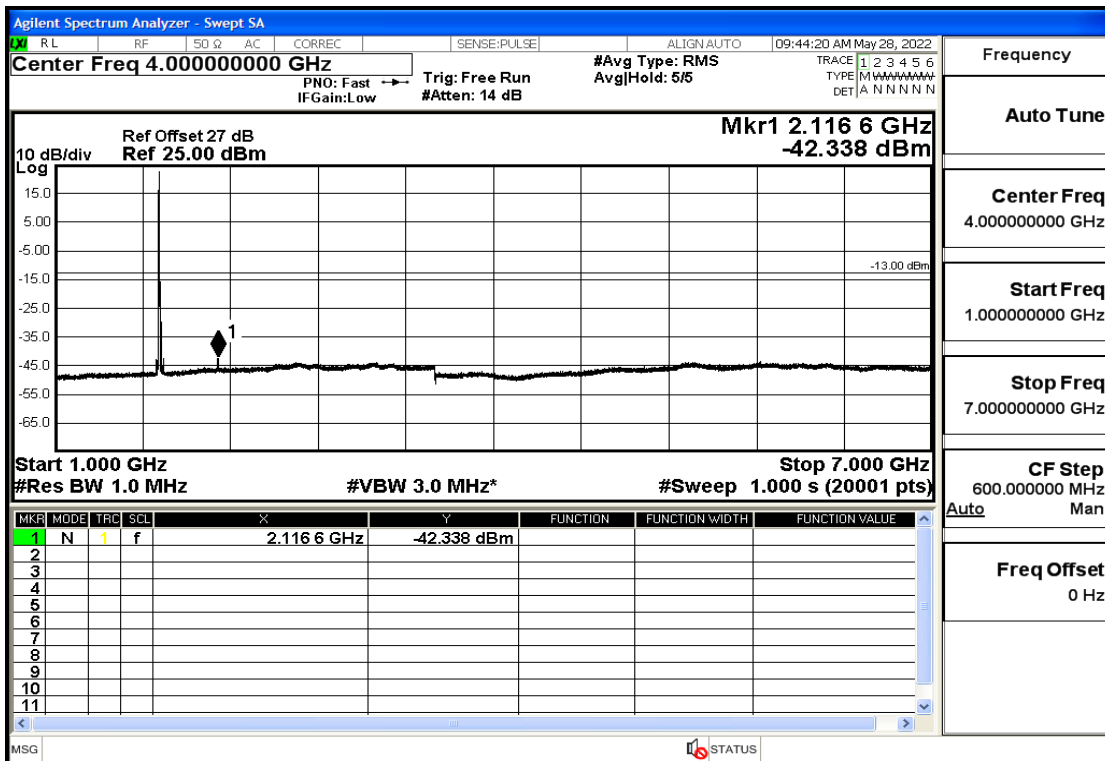
OB4-5-1752.5-Q16-25#LOW@13.6GHz-20GHz@Pass



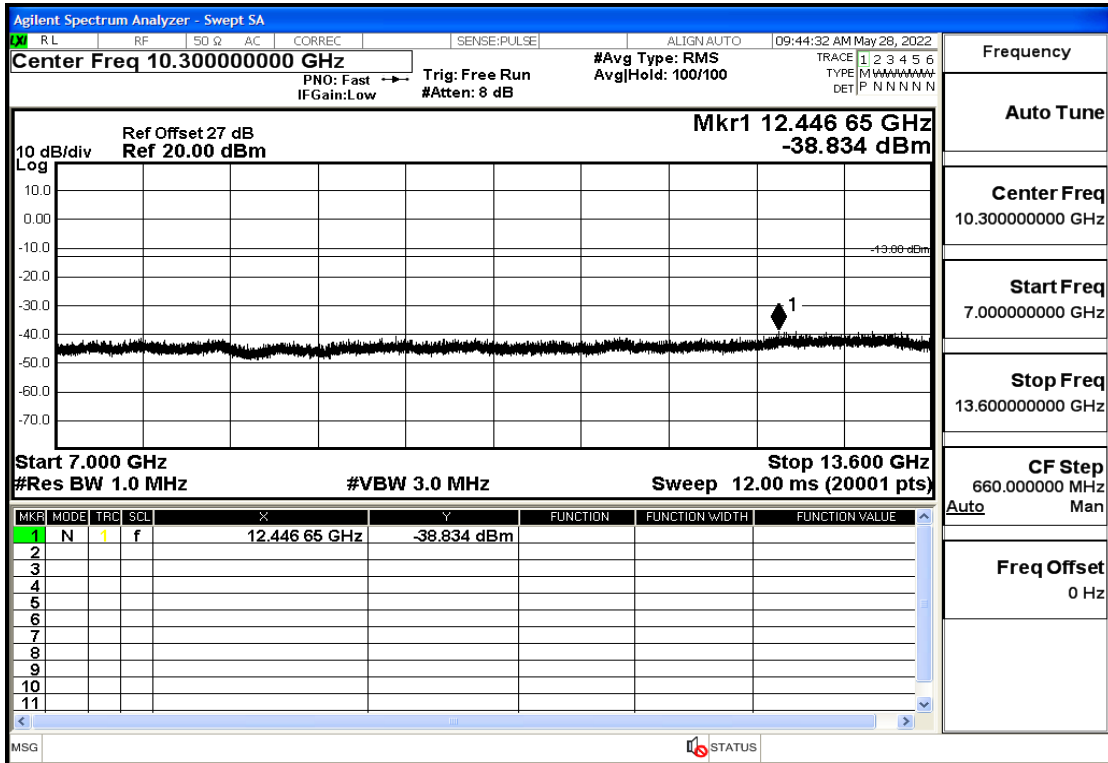
OB4-10-1715-Q16-50#LOW@30mHz-1GHz@Pass



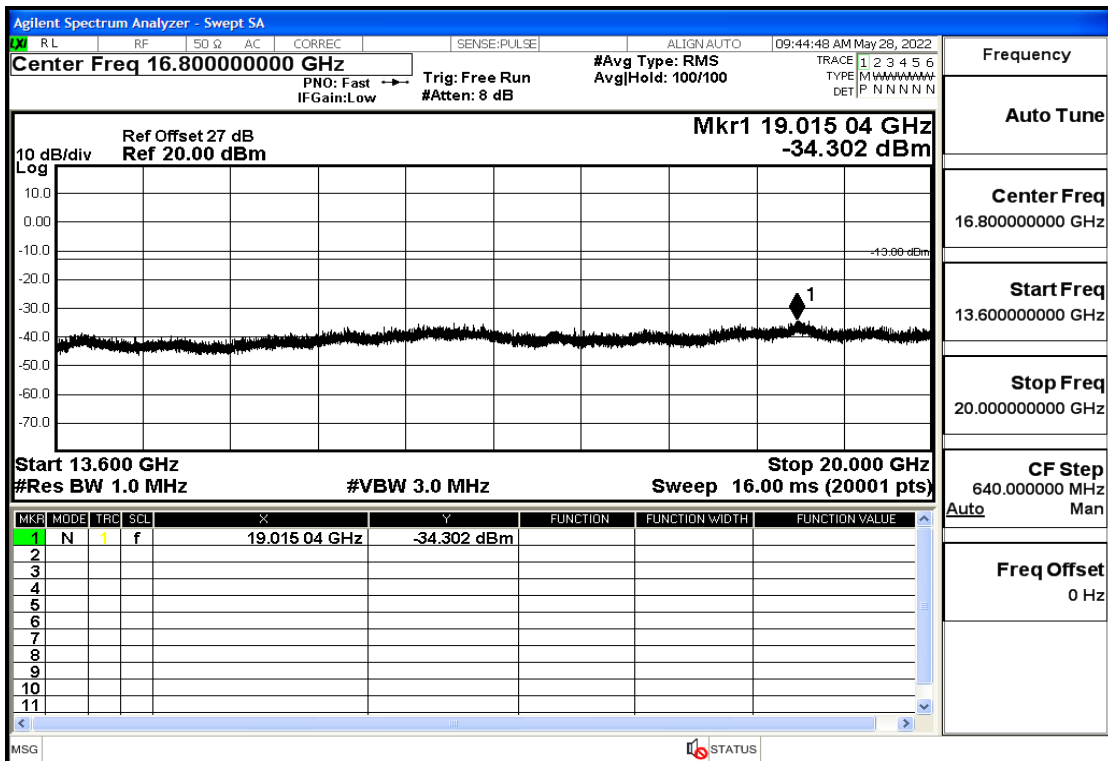
OB4-10-1715-Q16-50#LOW@1GHz-7GHz@Pass



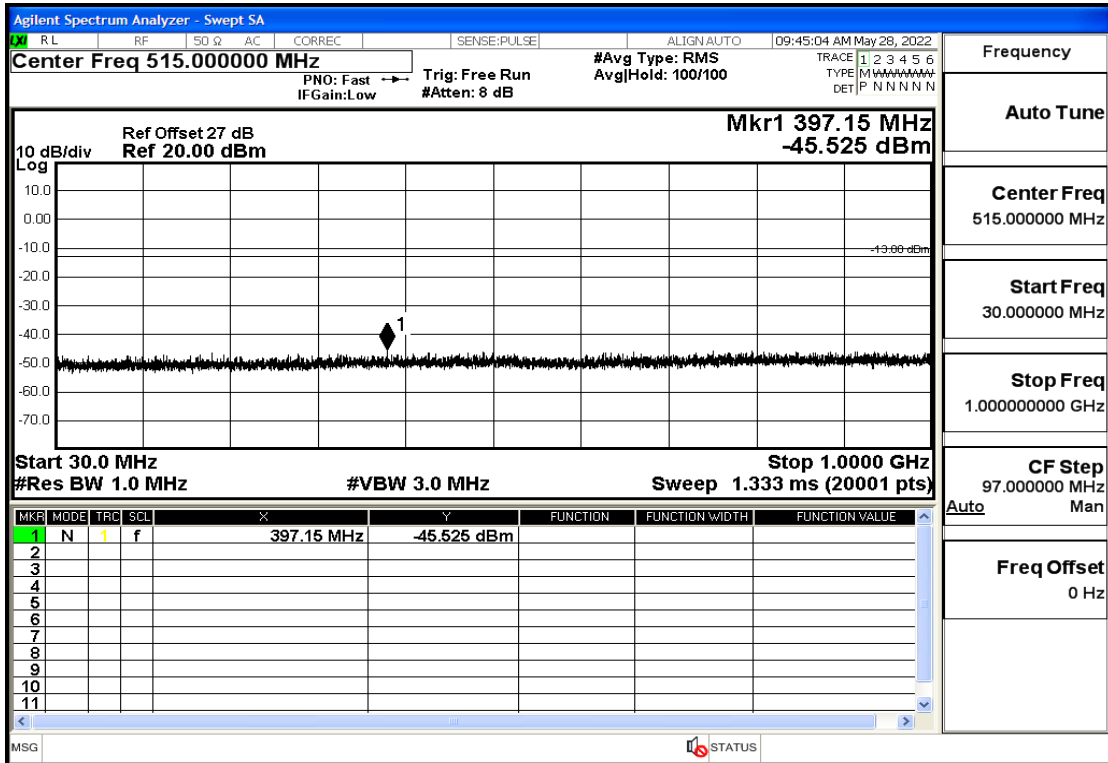
OB4-10-1715-Q16-50#LOW@7GHz-13.6GHz@Pass



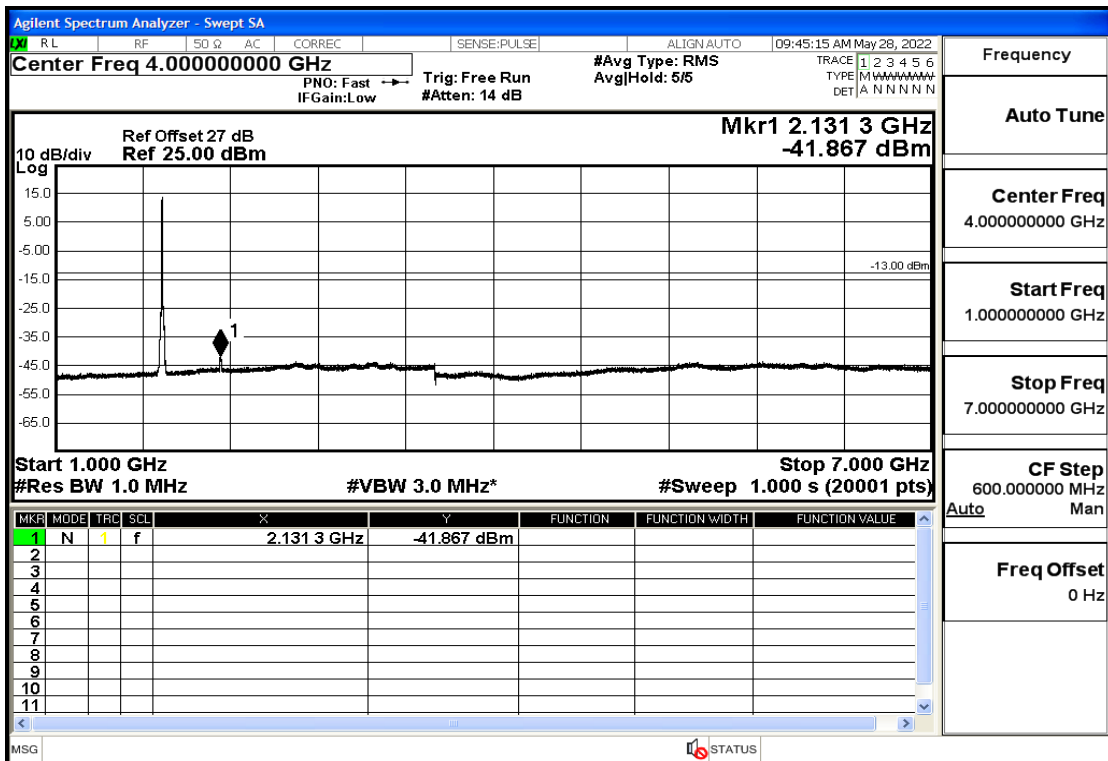
OB4-10-1715-Q16-50#LOW@13.6GHz-20GHz@Pass



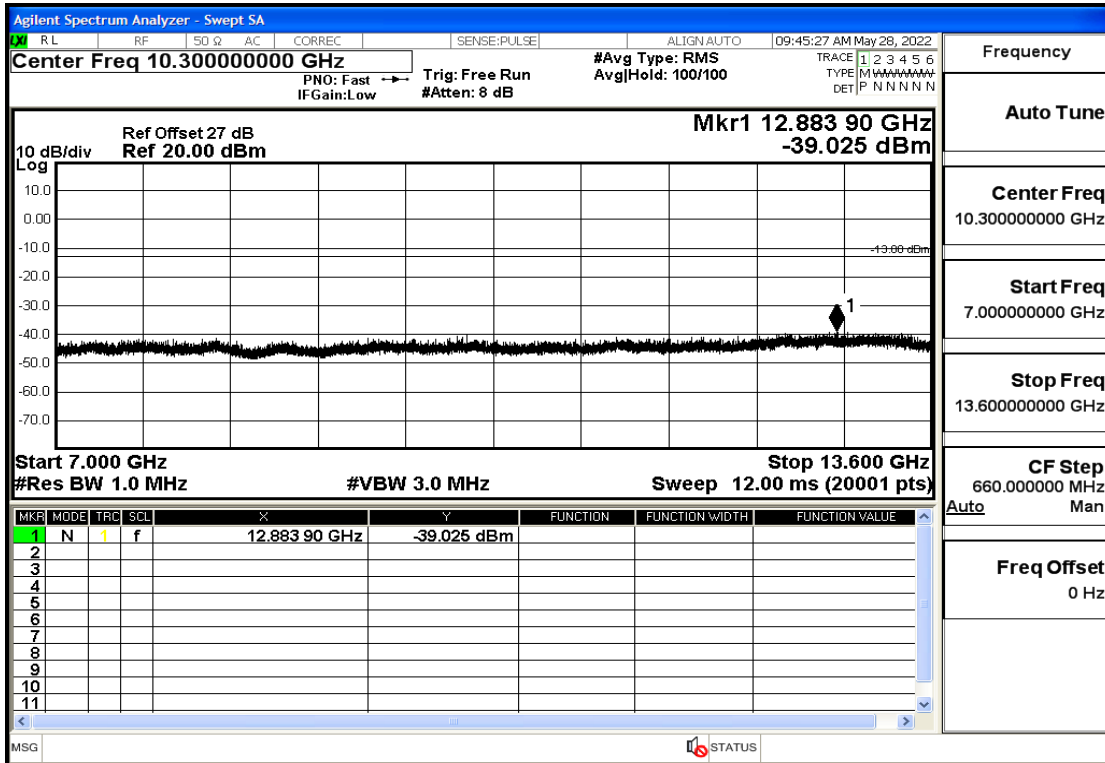
OB4-10-1732.5-Q16-50#LOW@30mHz-1GHz@Pass



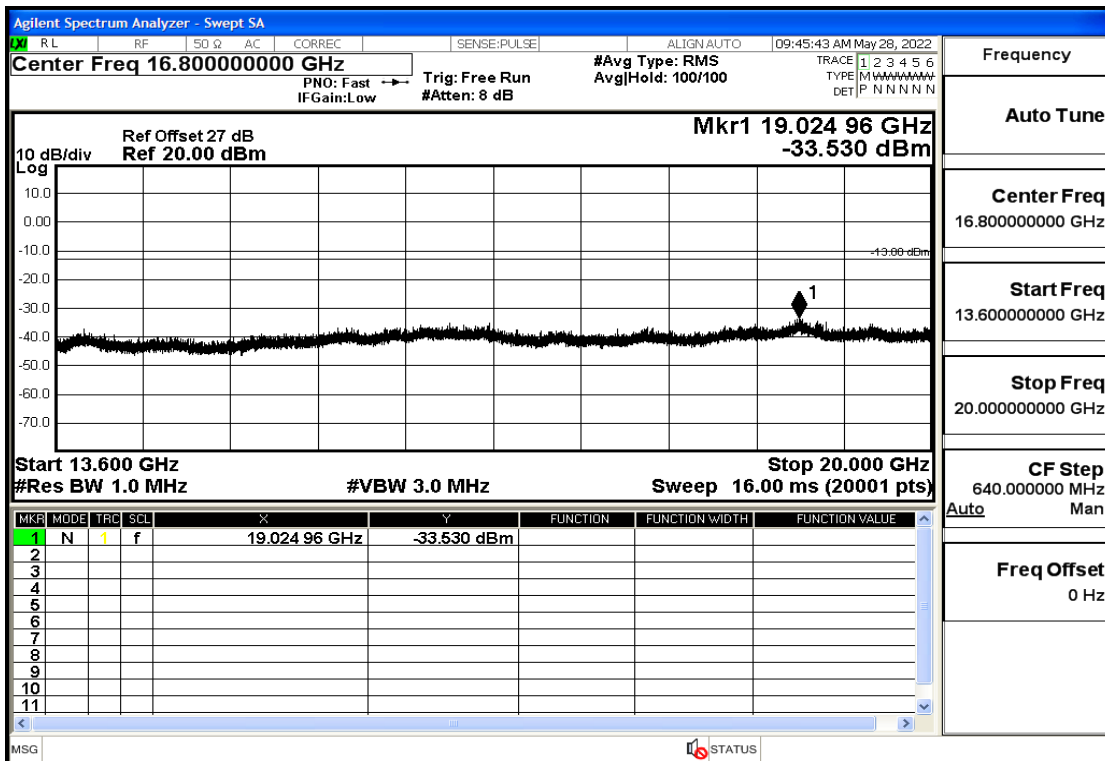
OB4-10-1732.5-Q16-50#LOW@1GHz-7GHz@Pass



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

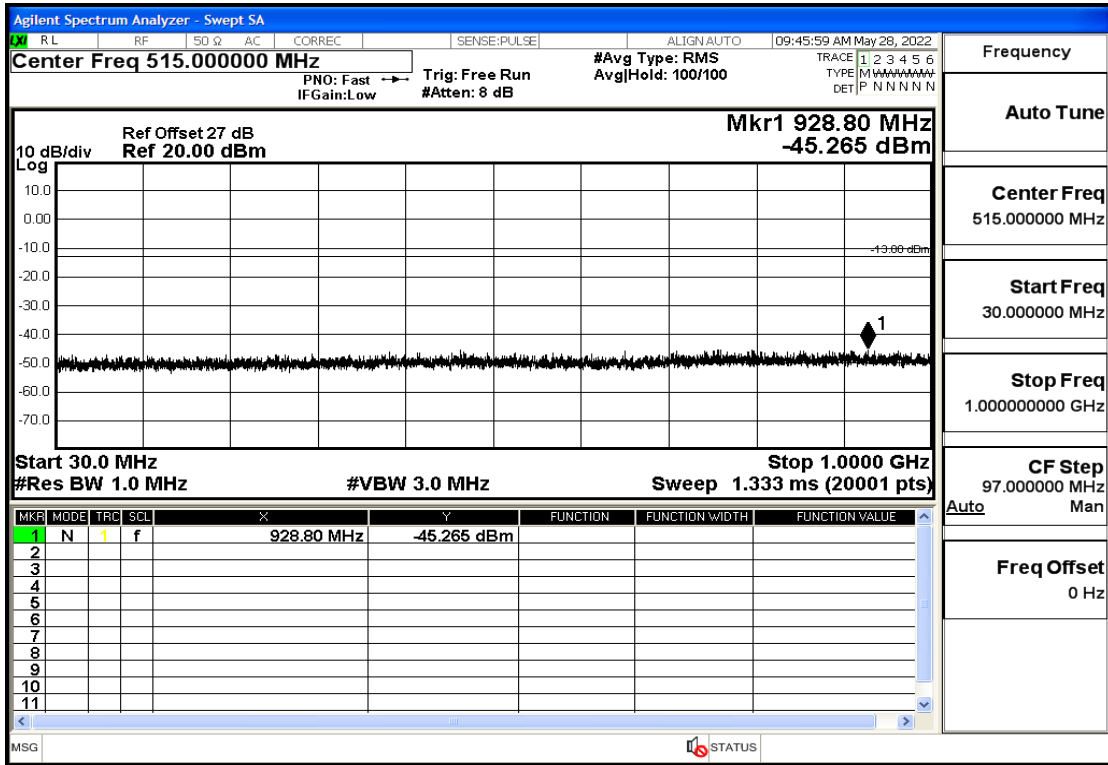


OB4-10-1732.5-Q16-50#LOW@13.6GHz-20GHz@Pass

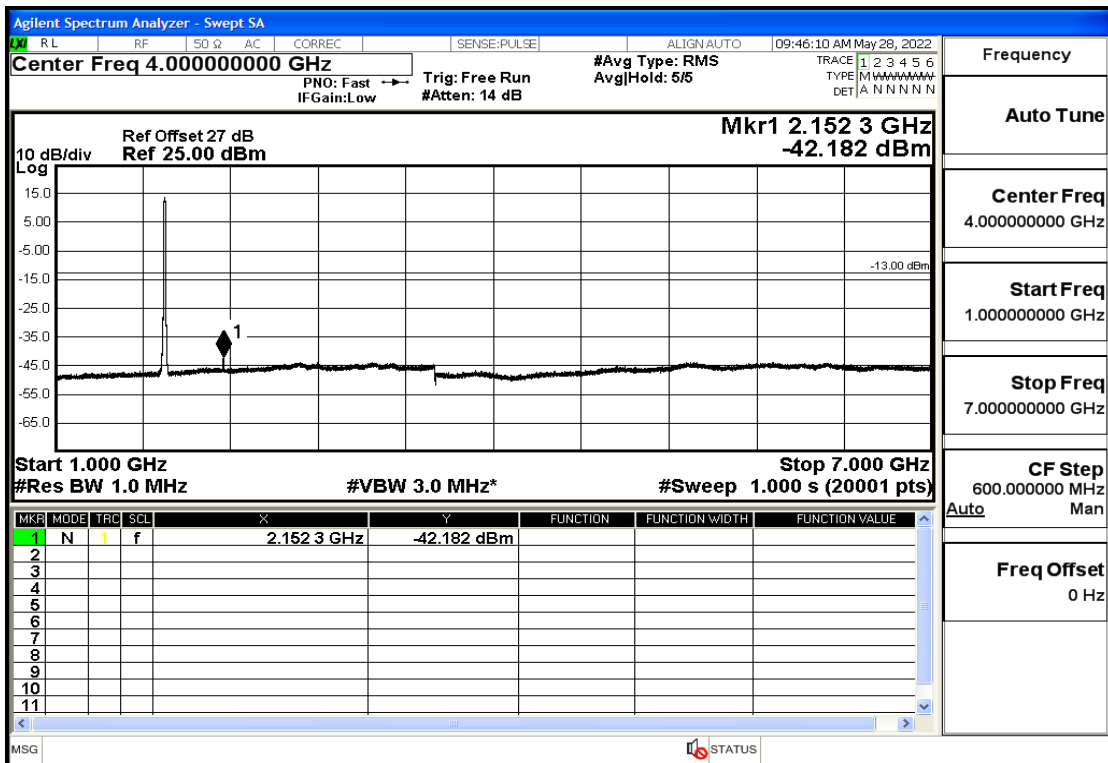




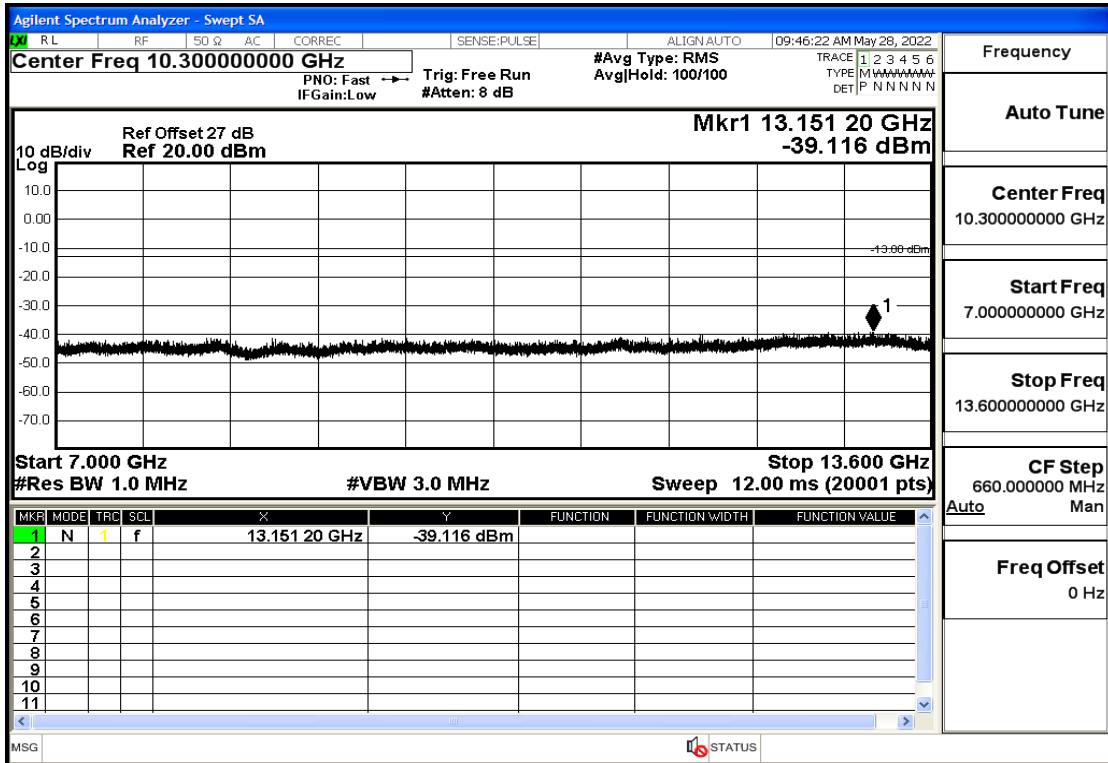
OB4-10-1750-Q16-50#LOW@30mHz-1GHz@Pass



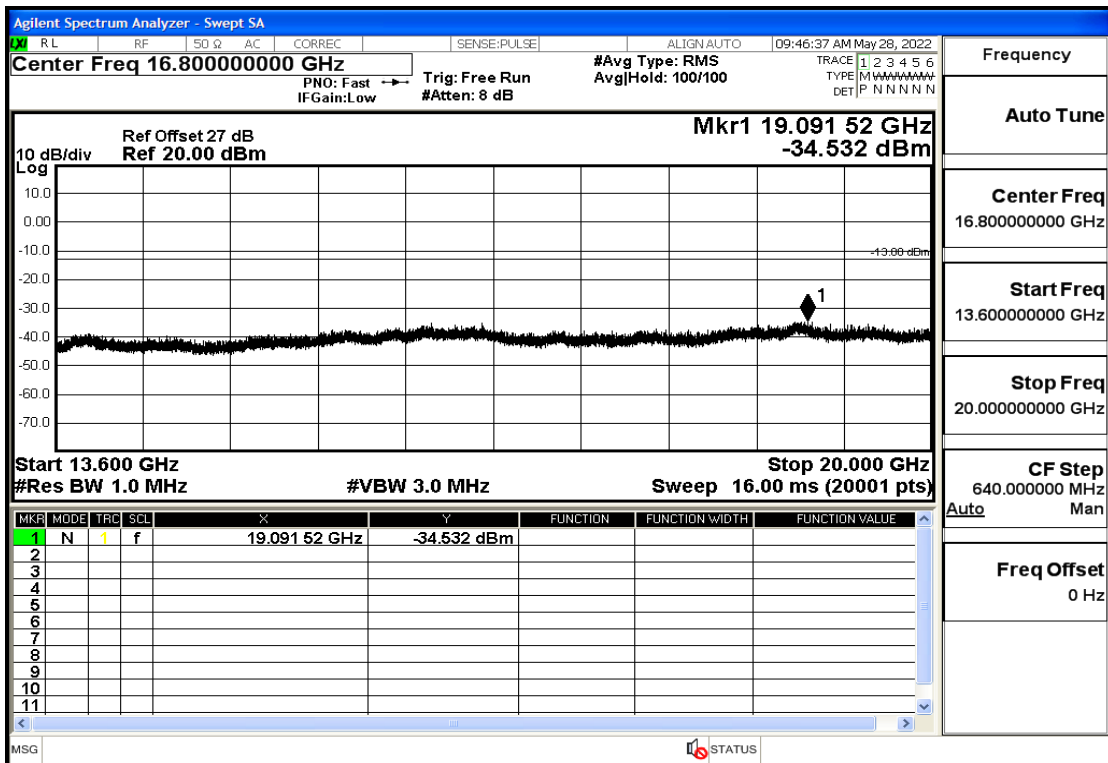
OB4-10-1750-Q16-50#LOW@1GHz-7GHz@Pass



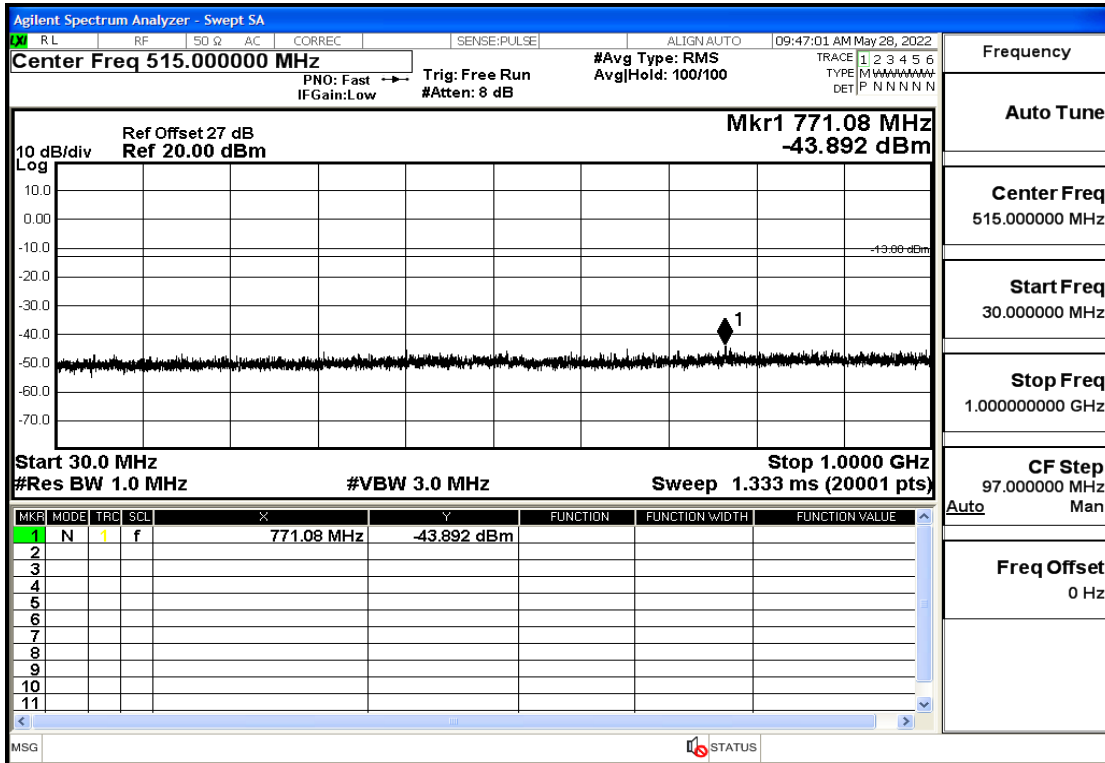
OB4-10-1750-Q16-50#LOW@7GHz-13.6GHz@Pass



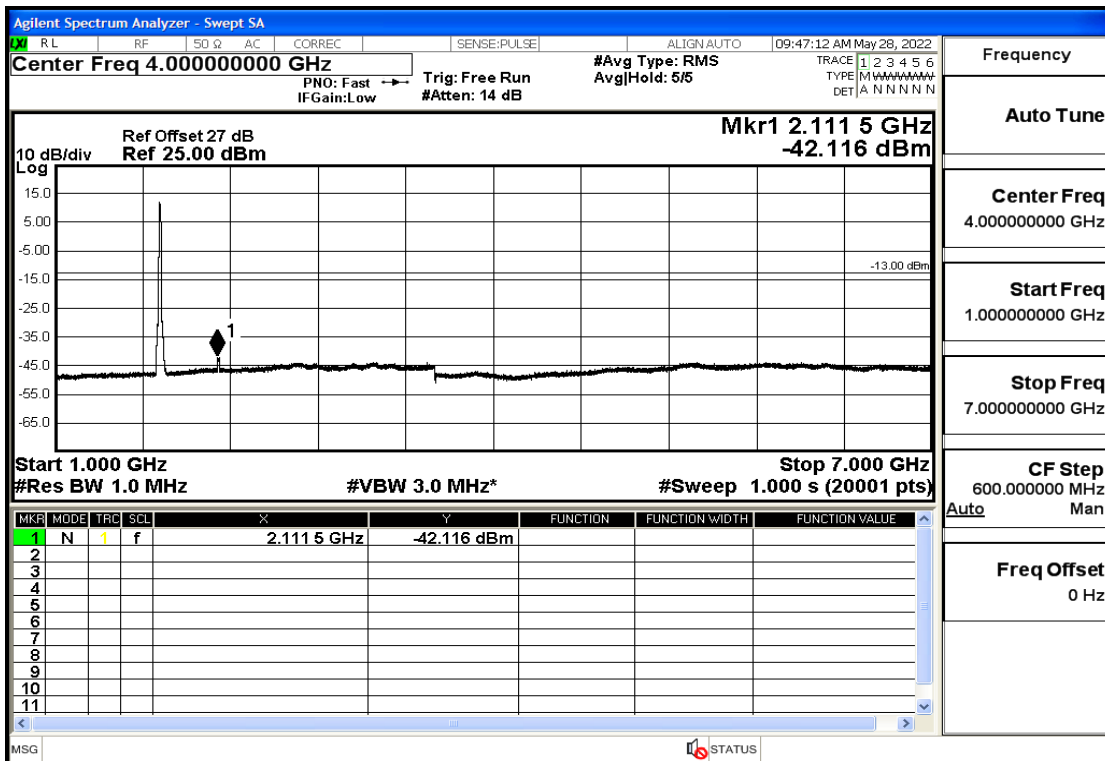
OB4-10-1750-Q16-50#LOW@13.6GHz-20GHz@Pass



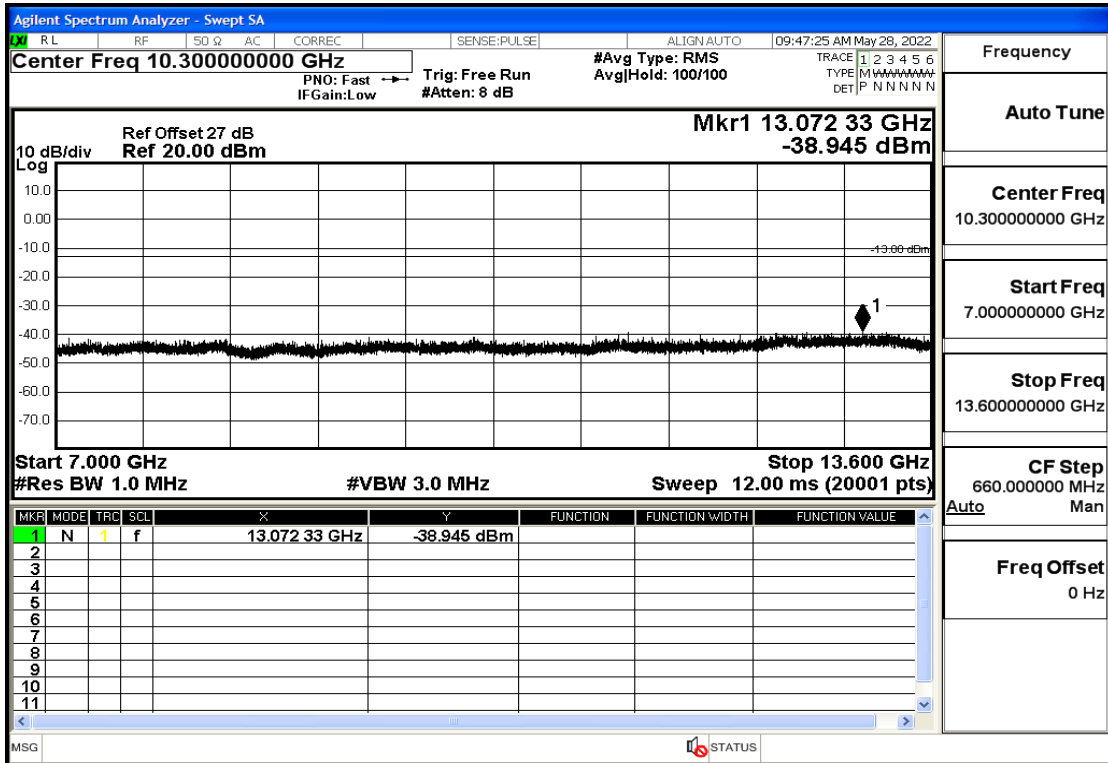
OB4-15-1717.5-Q16-75#LOW@30mHz-1GHz@Pass



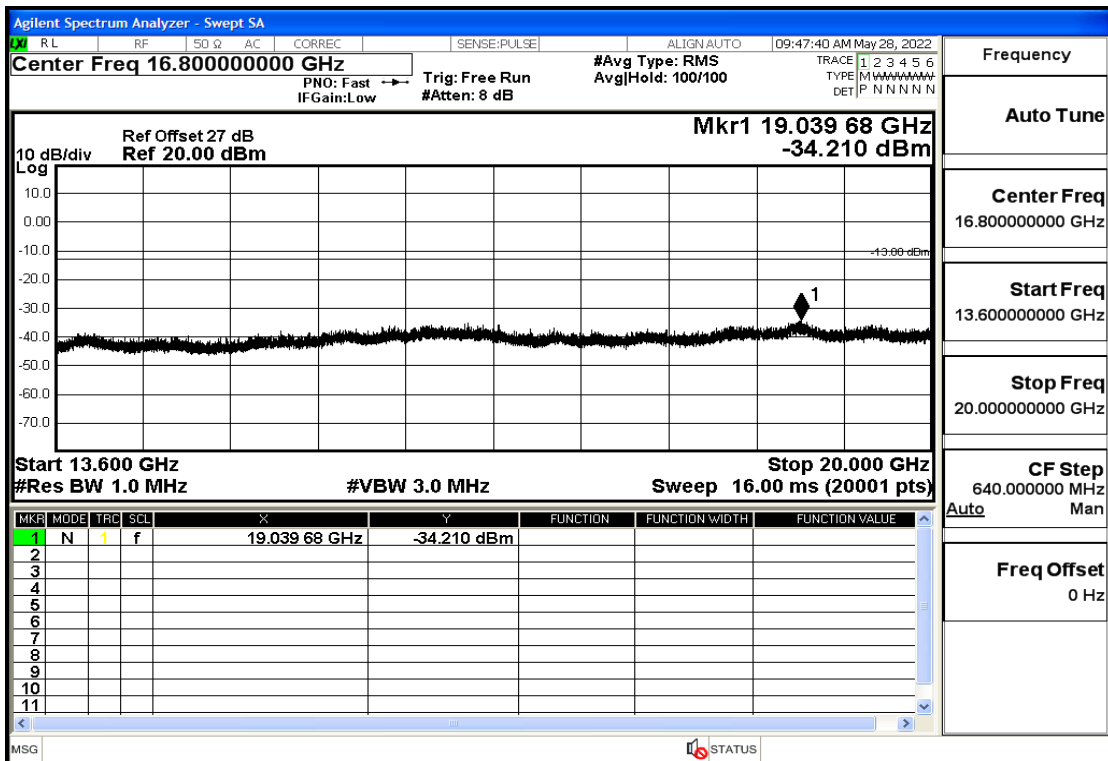
OB4-15-1717.5-Q16-75#LOW@1GHz-7GHz@Pass



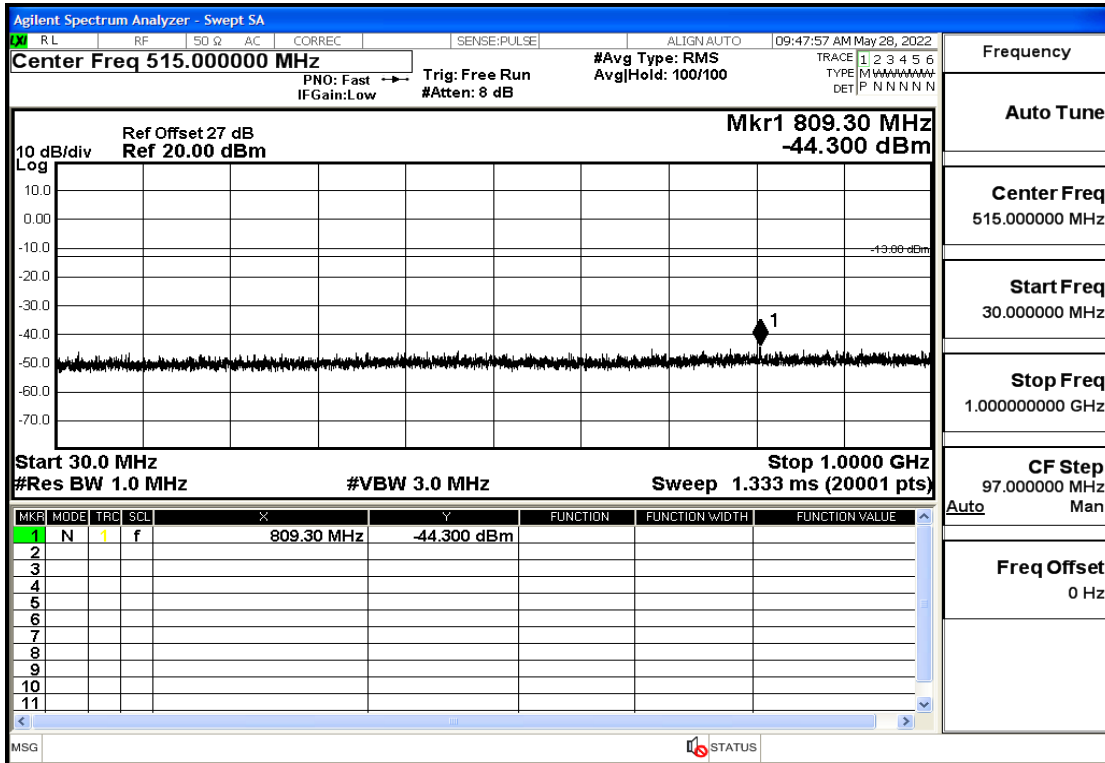
OB4-15-1717.5-Q16-75#LOW@7GHz-13.6GHz@Pass



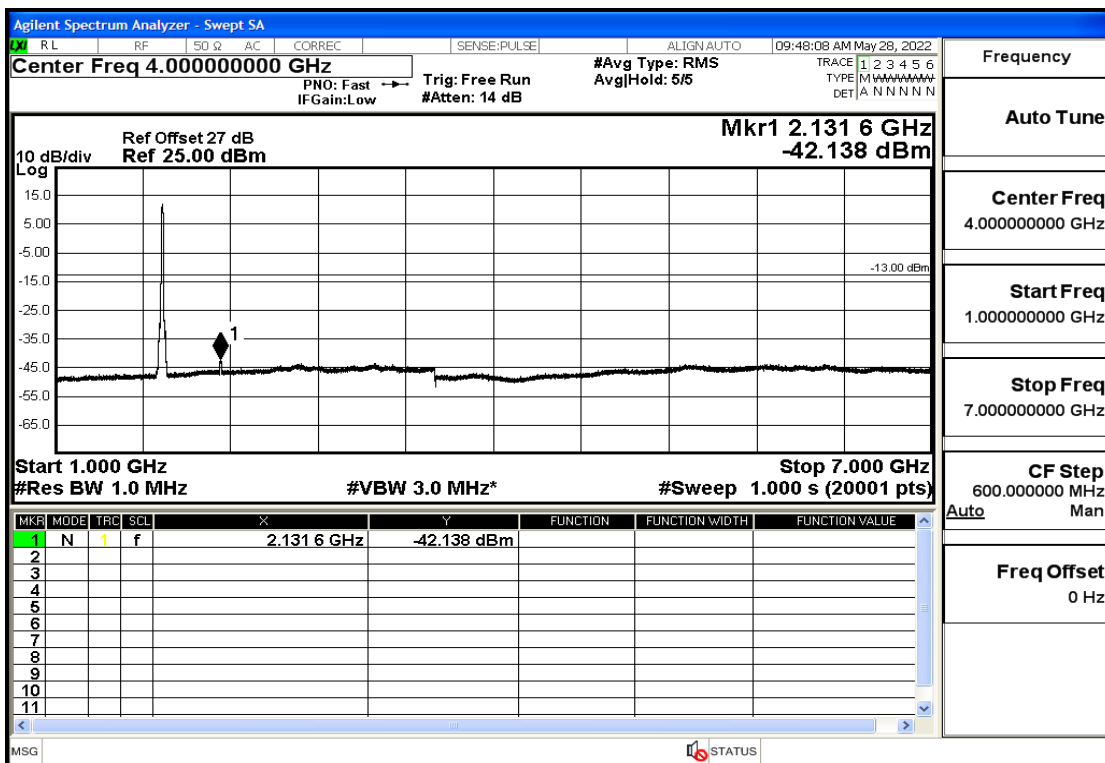
OB4-15-1717.5-Q16-75#LOW@13.6GHz-20GHz@Pass



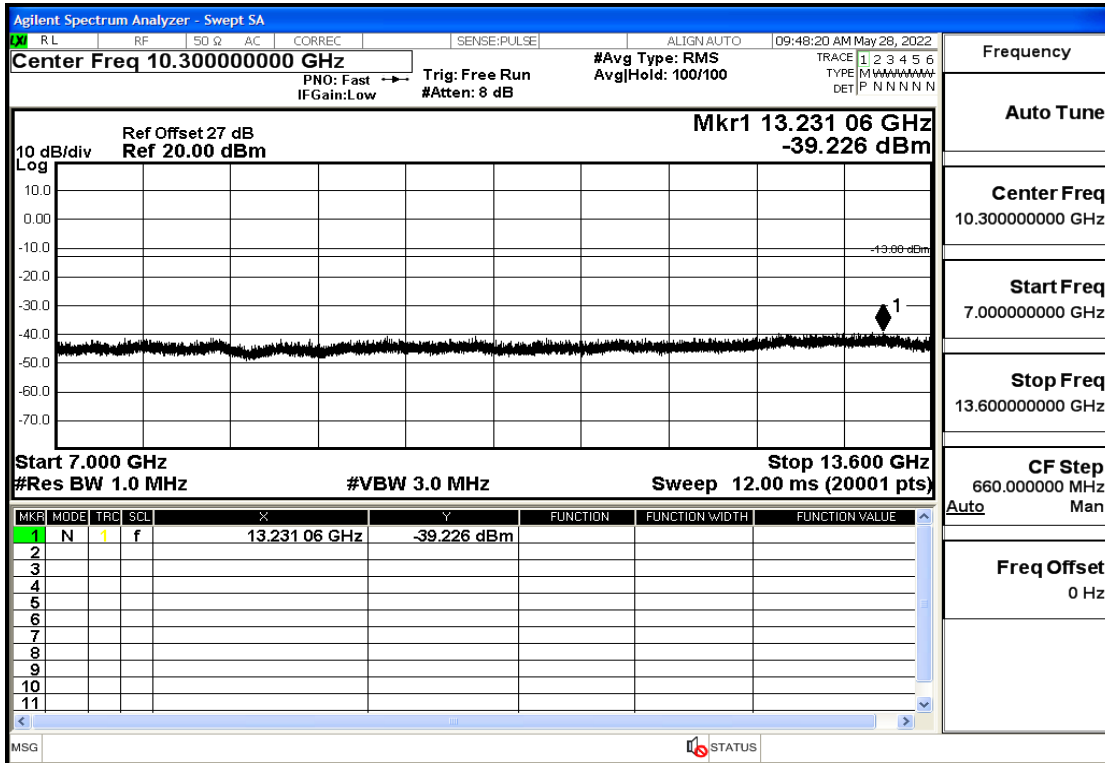
OB4-15-1732.5-Q16-75#LOW@30mHz-1GHz@Pass



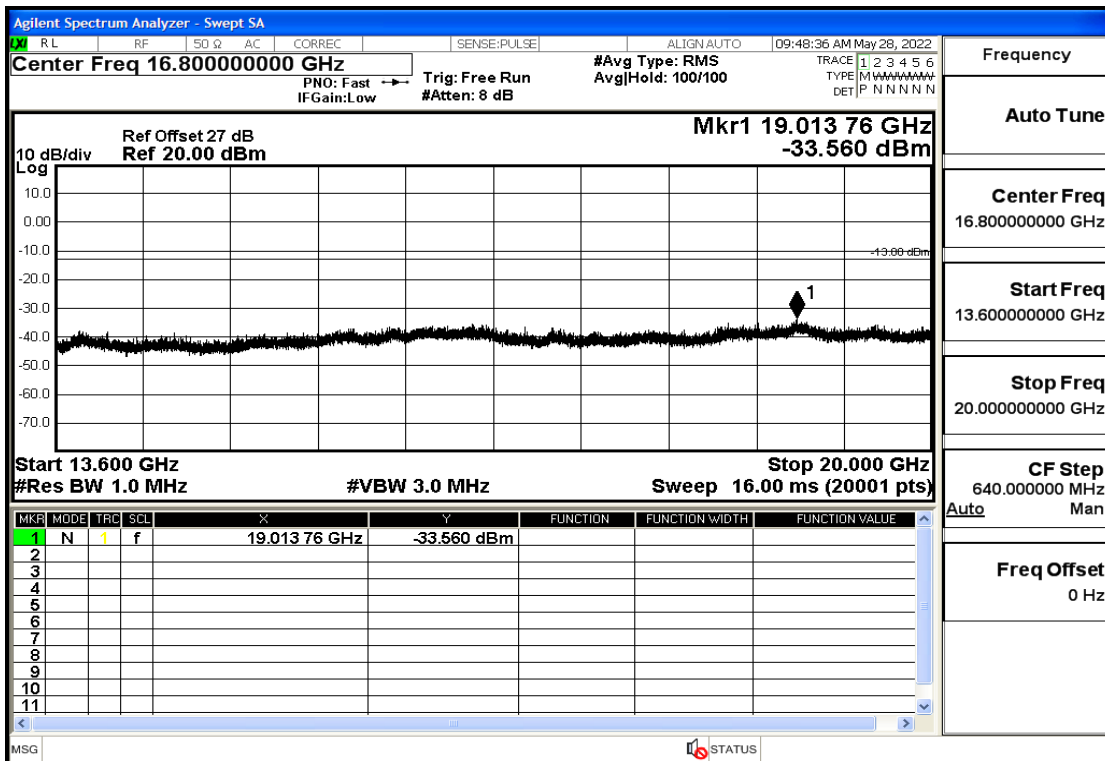
OB4-15-1732.5-Q16-75#LOW@1GHz-7GHz@Pass



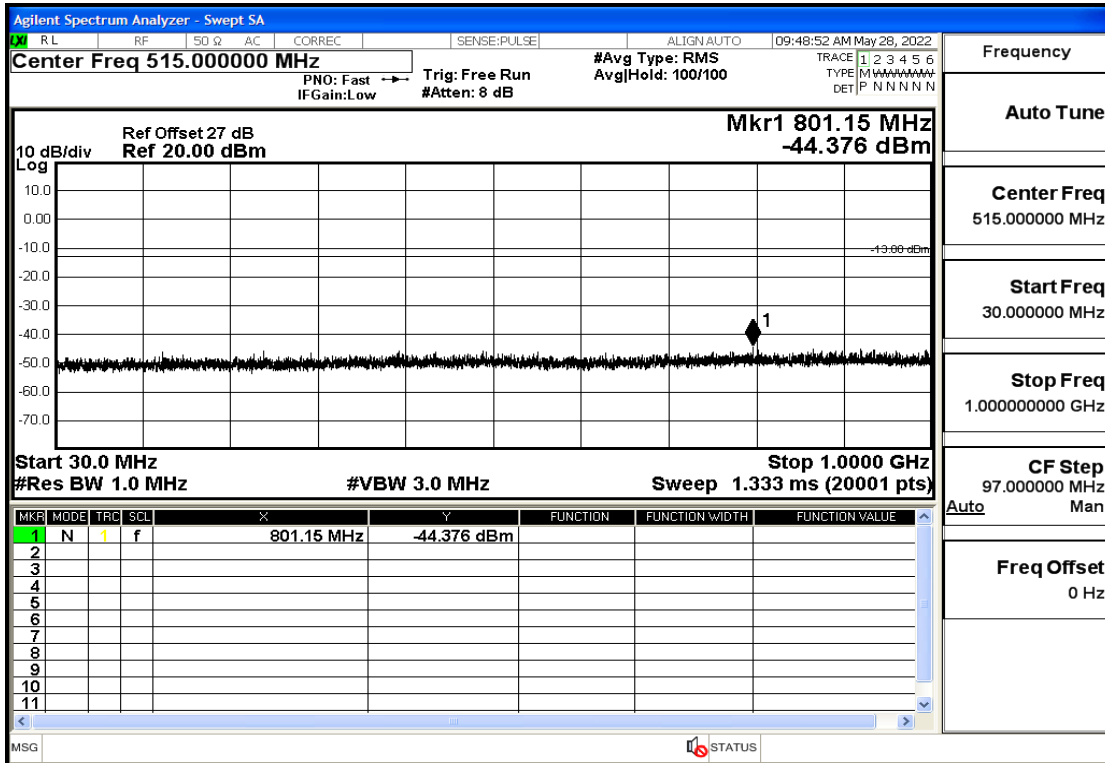
OB4-15-1732.5-Q16-75#LOW@7GHz-13.6GHz@Pass



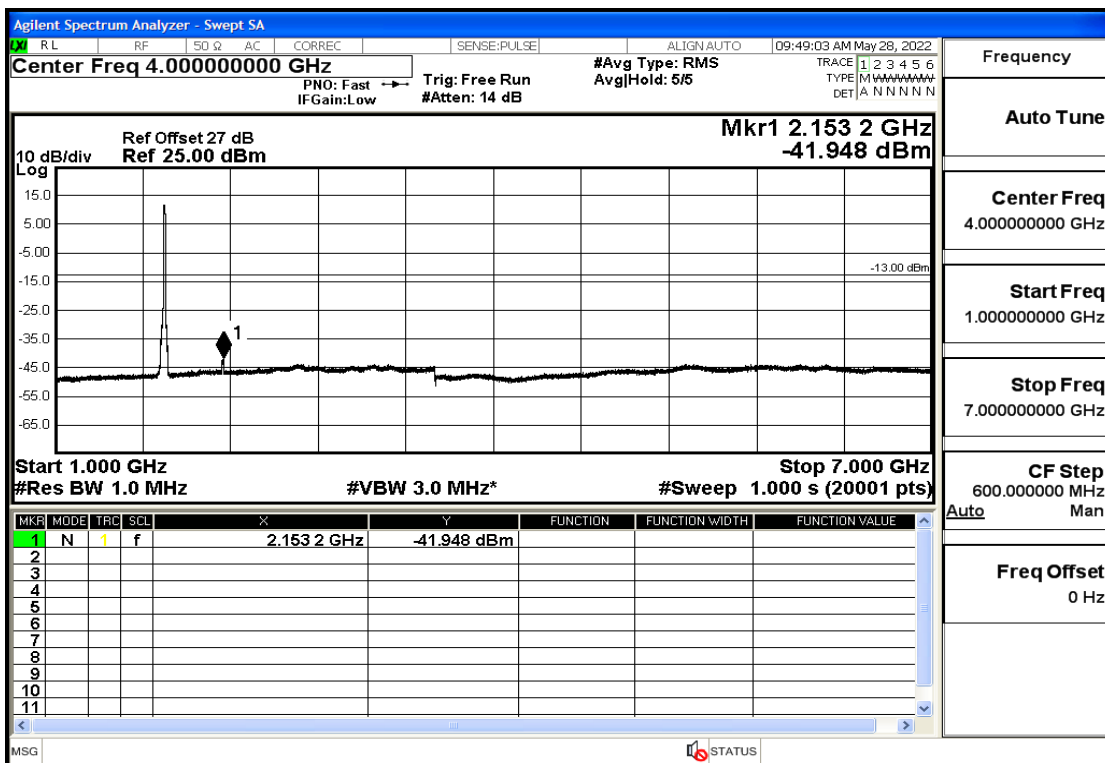
OB4-15-1732.5-Q16-75#LOW@13.6GHz-20GHz@Pass



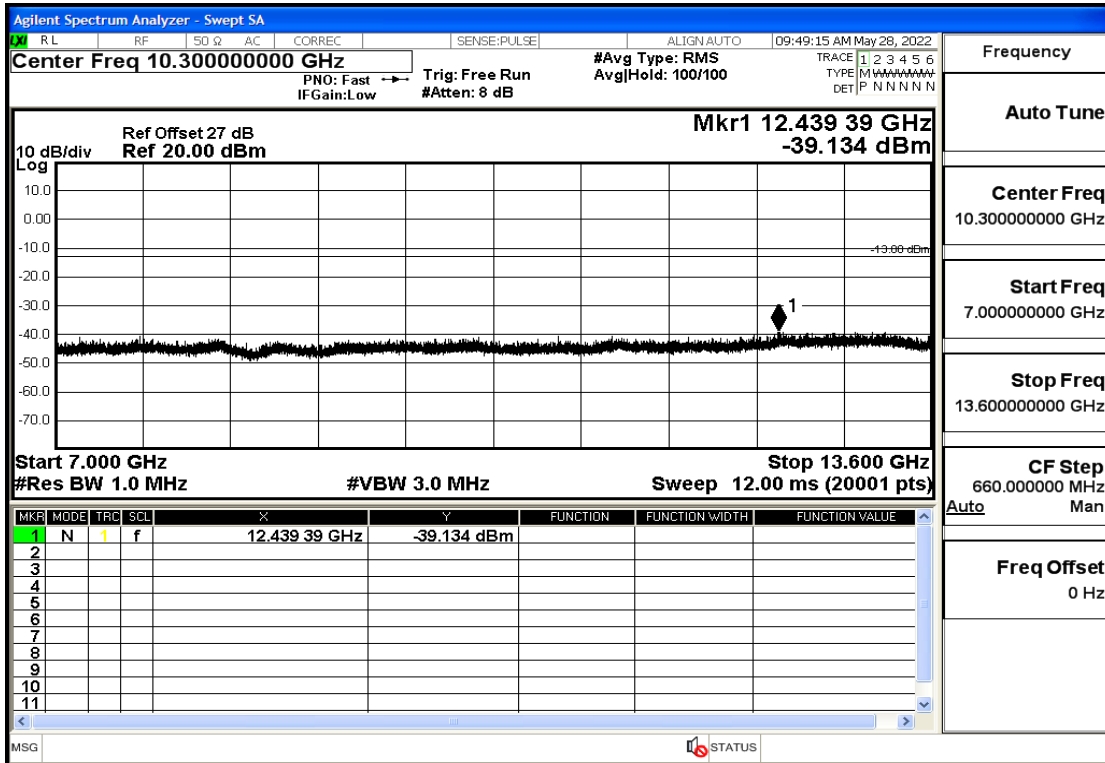
OB4-15-1747.5-Q16-75#LOW@30mHz-1GHz@Pass



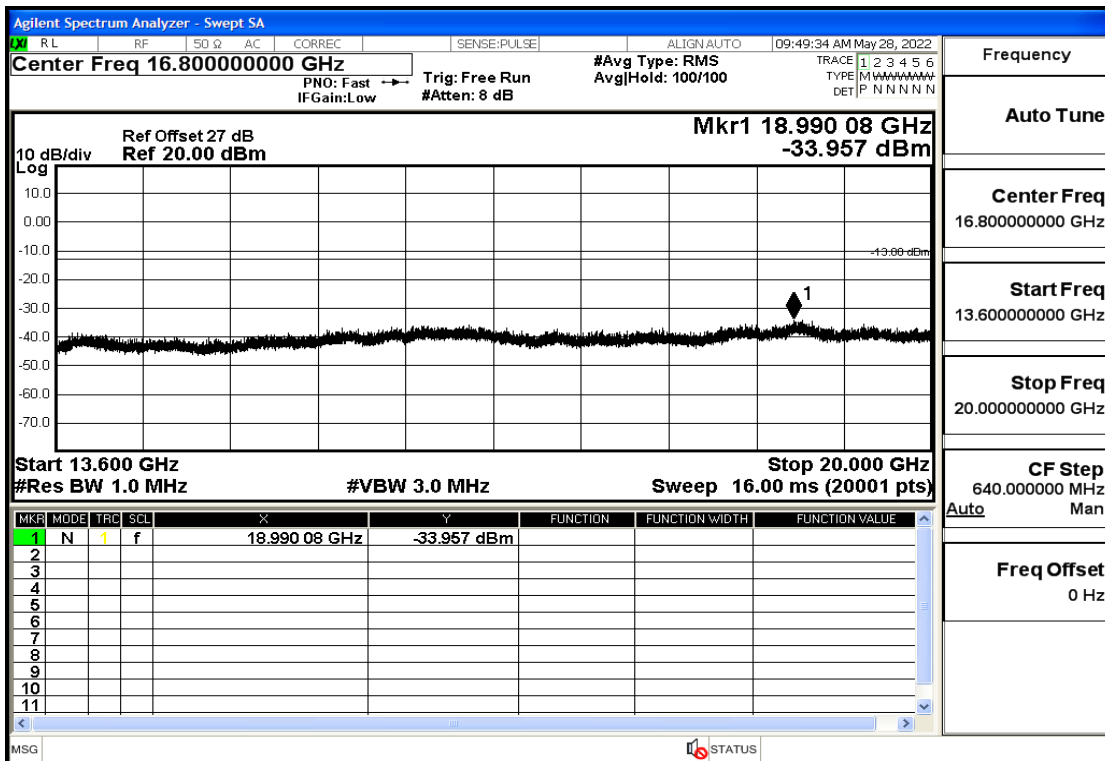
OB4-15-1747.5-Q16-75#LOW@1GHz-7GHz@Pass



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

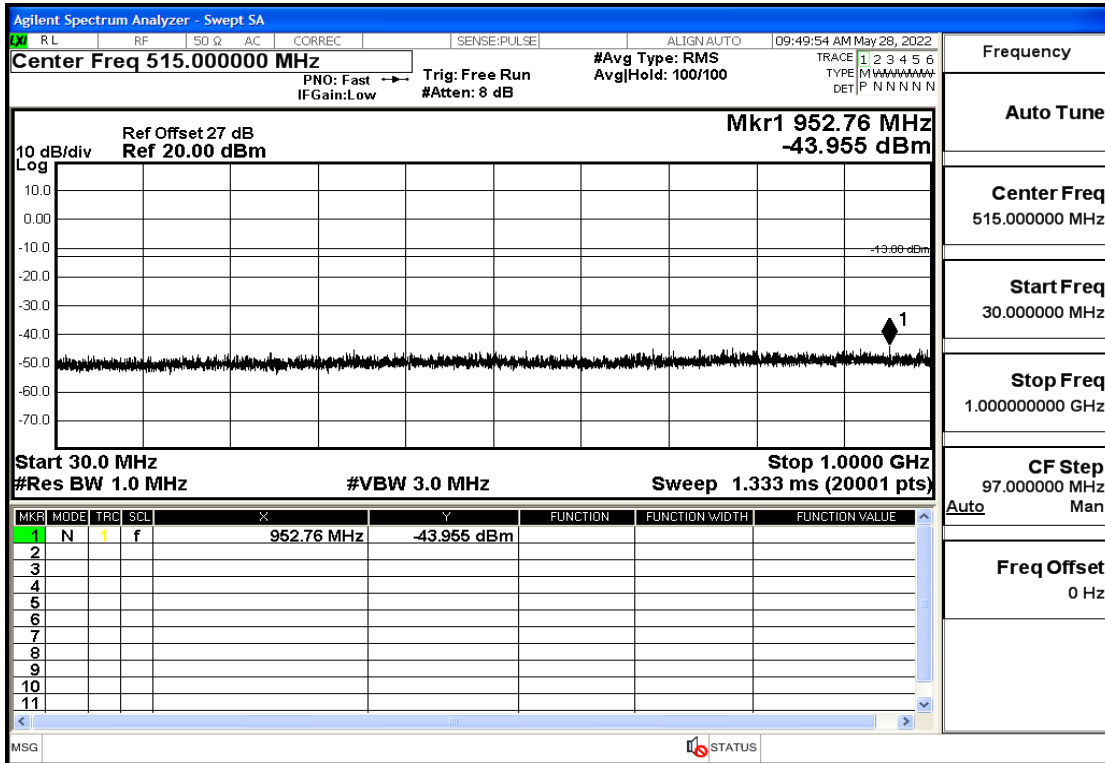


OB4-15-1747.5-Q16-75#LOW@13.6GHz-20GHz@Pass

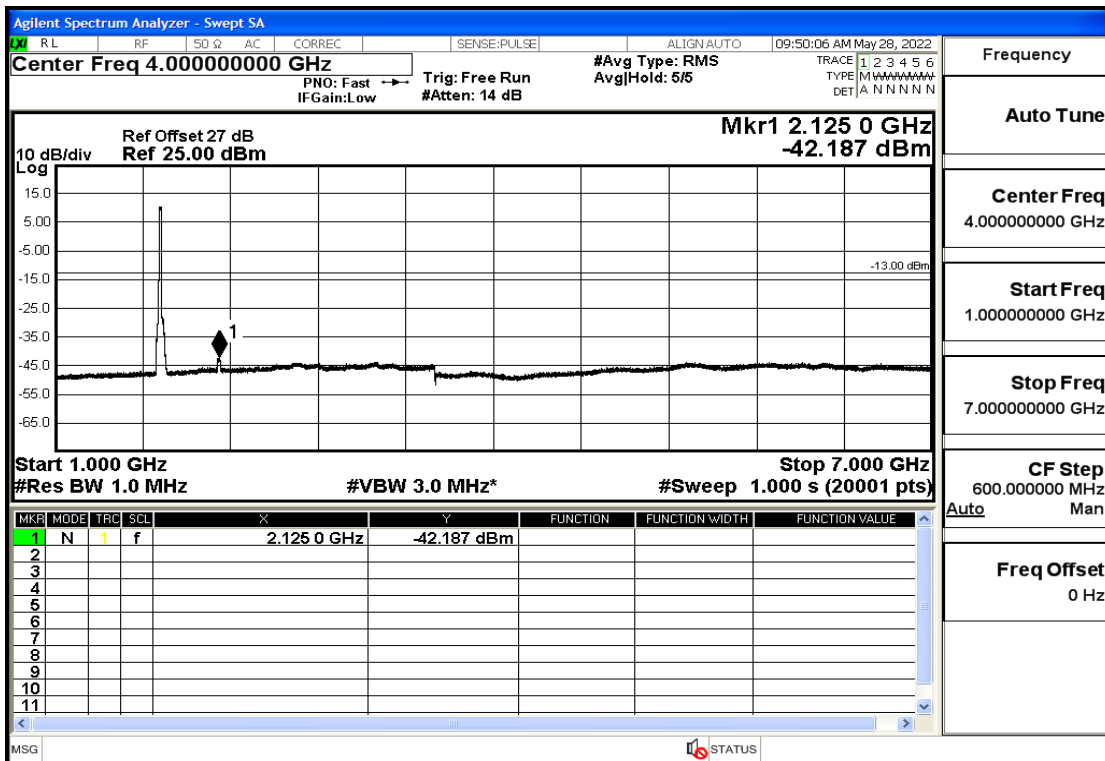




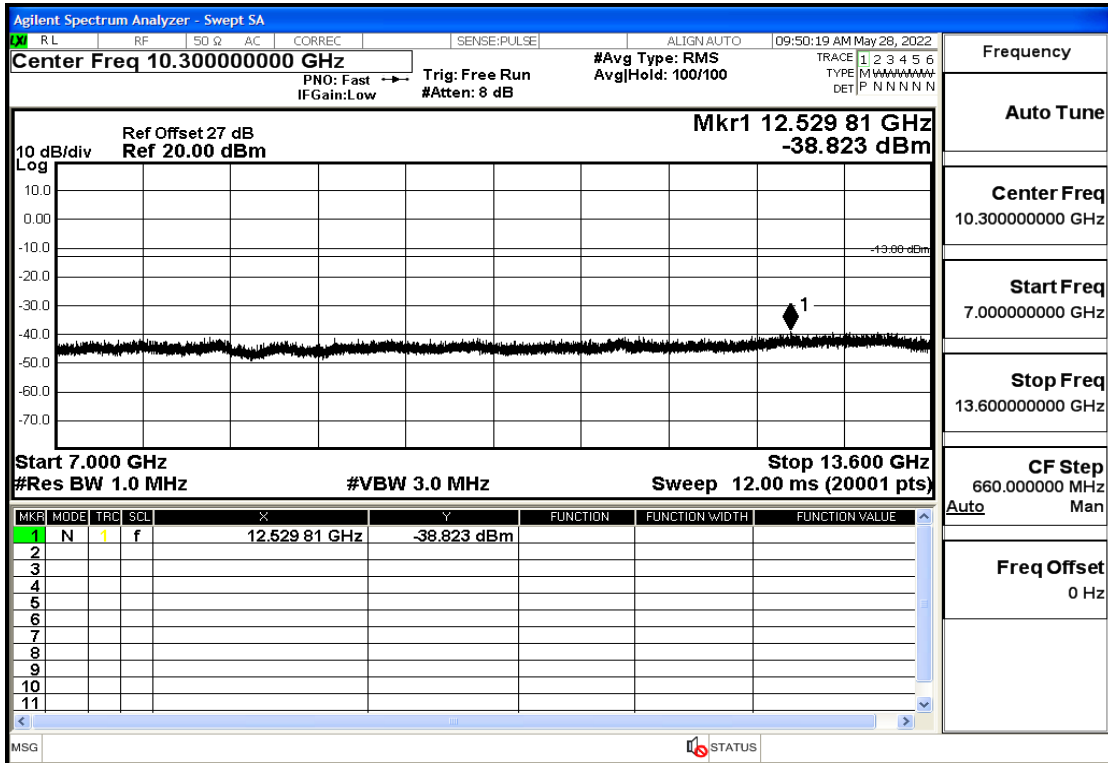
OB4-20-1720-Q16-100#LOW@30mHz-1GHz@Pass



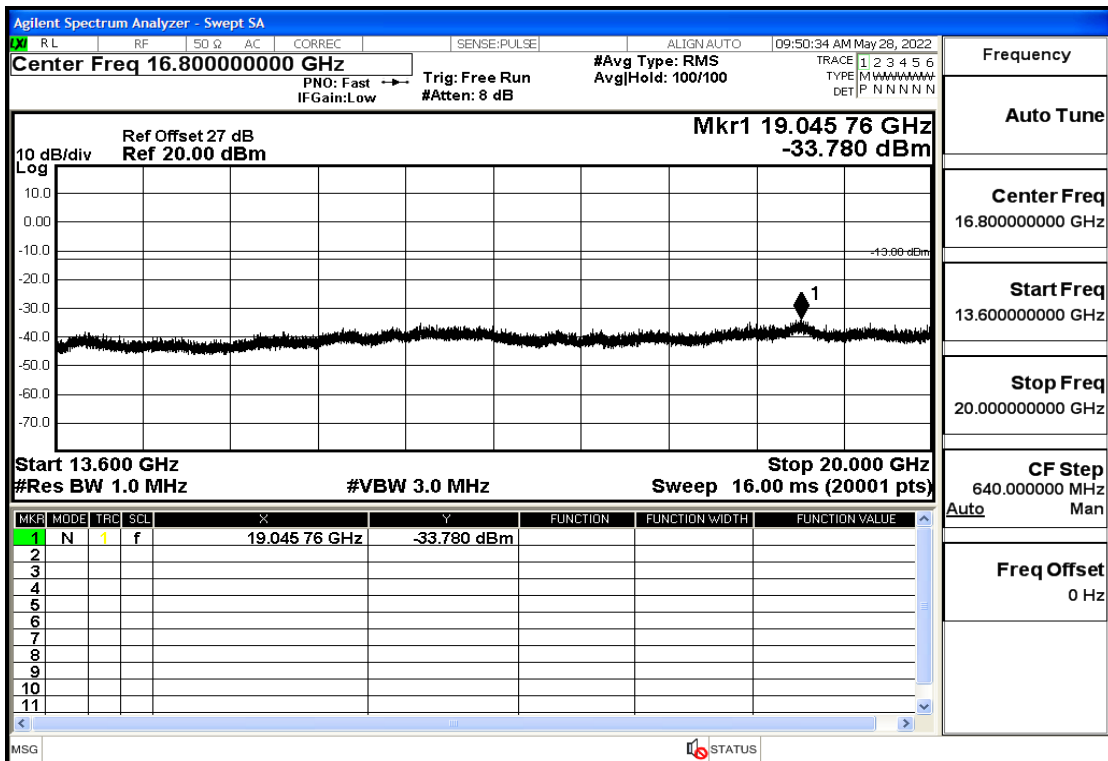
OB4-20-1720-Q16-100#LOW@1GHz-7GHz@Pass



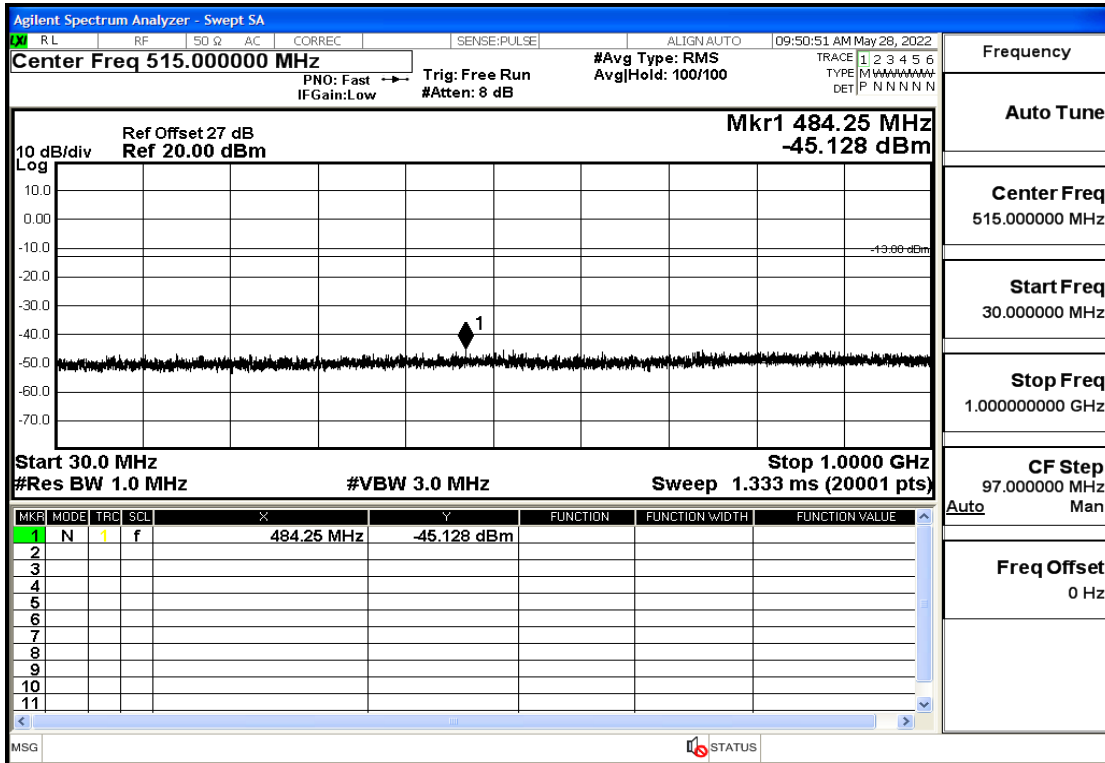
OB4-20-1720-Q16-100#LOW@7GHz-13.6GHz@Pass



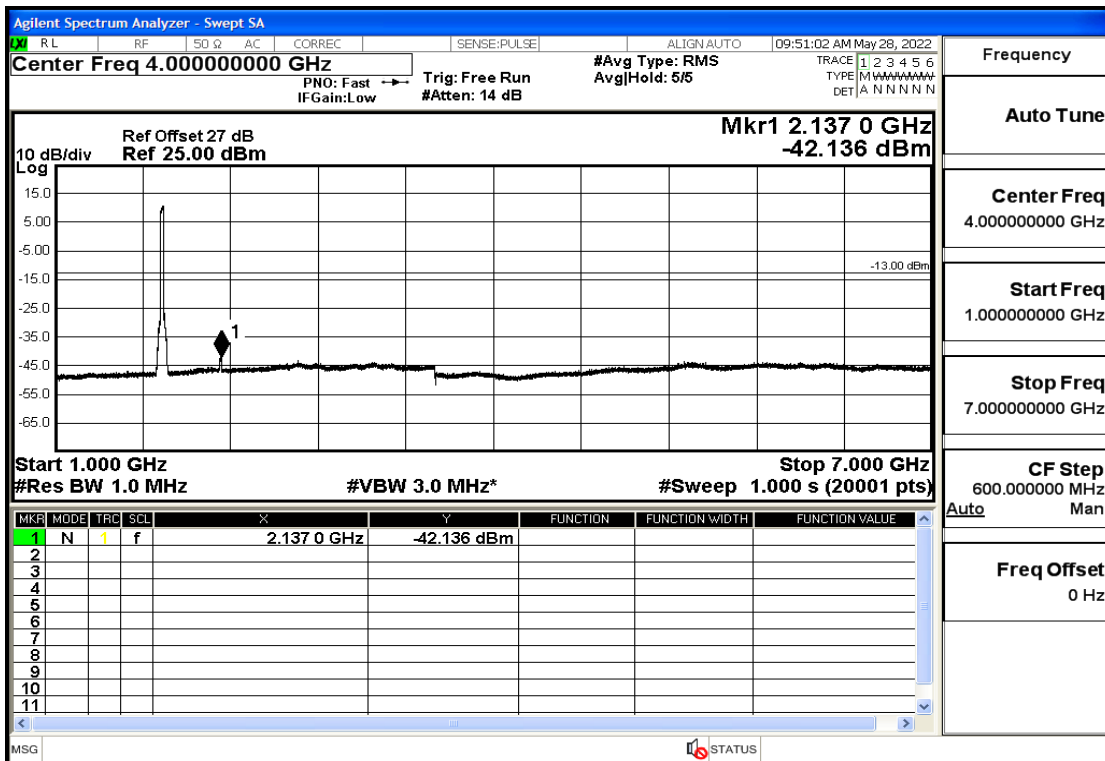
OB4-20-1720-Q16-100#LOW@13.6GHz-20GHz@Pass



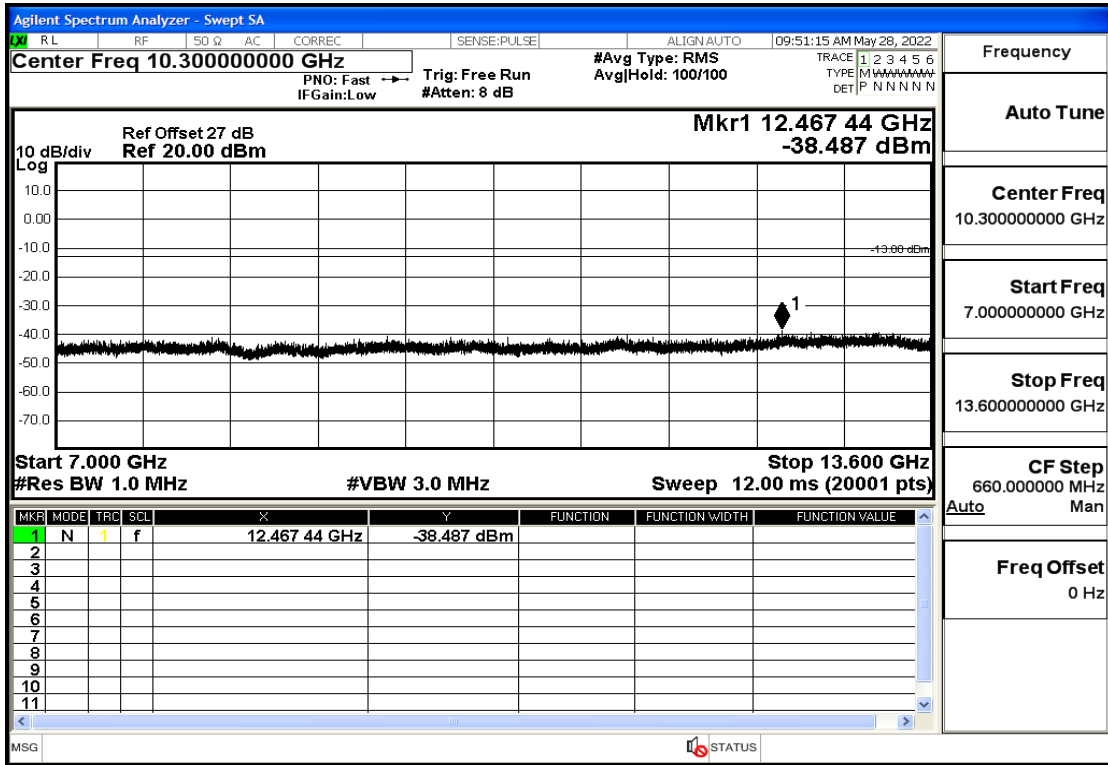
OB4-20-1732.5-Q16-100#LOW@30mHz-1GHz@Pass



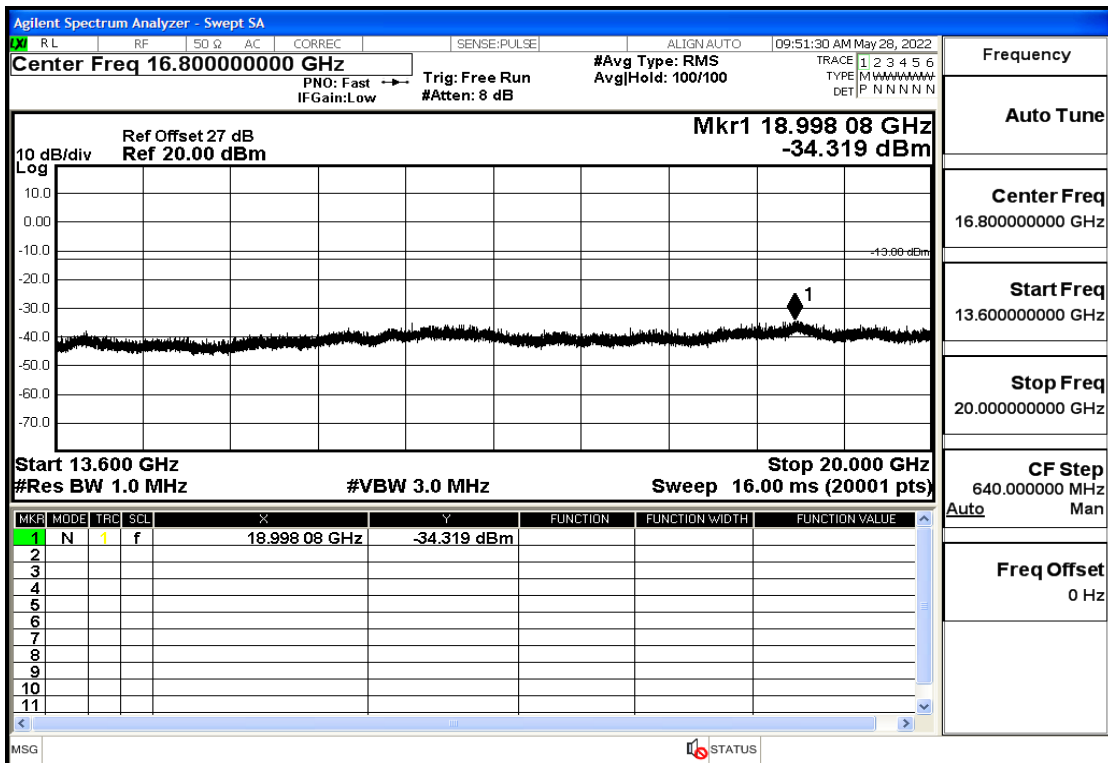
OB4-20-1732.5-Q16-100#LOW@1GHz-7GHz@Pass



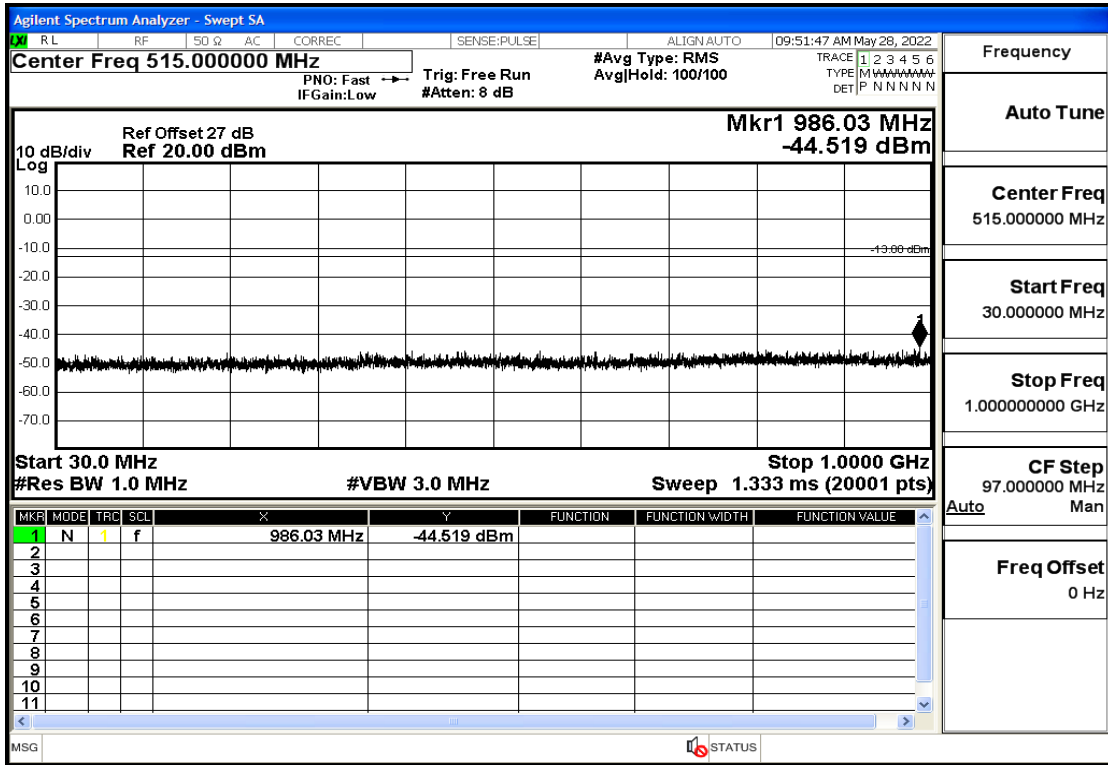
OB4-20-1732.5-Q16-100#LOW@7GHz-13.6GHz@Pass



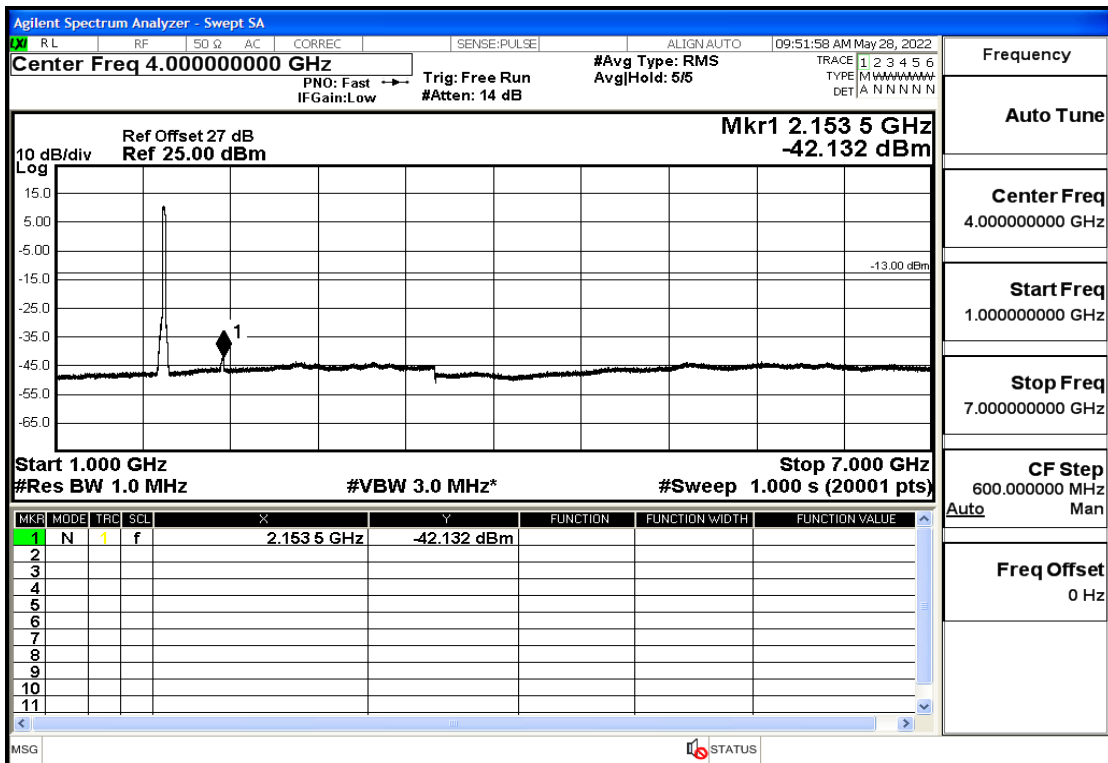
OB4-20-1732.5-Q16-100#LOW@13.6GHz-20GHz@Pass



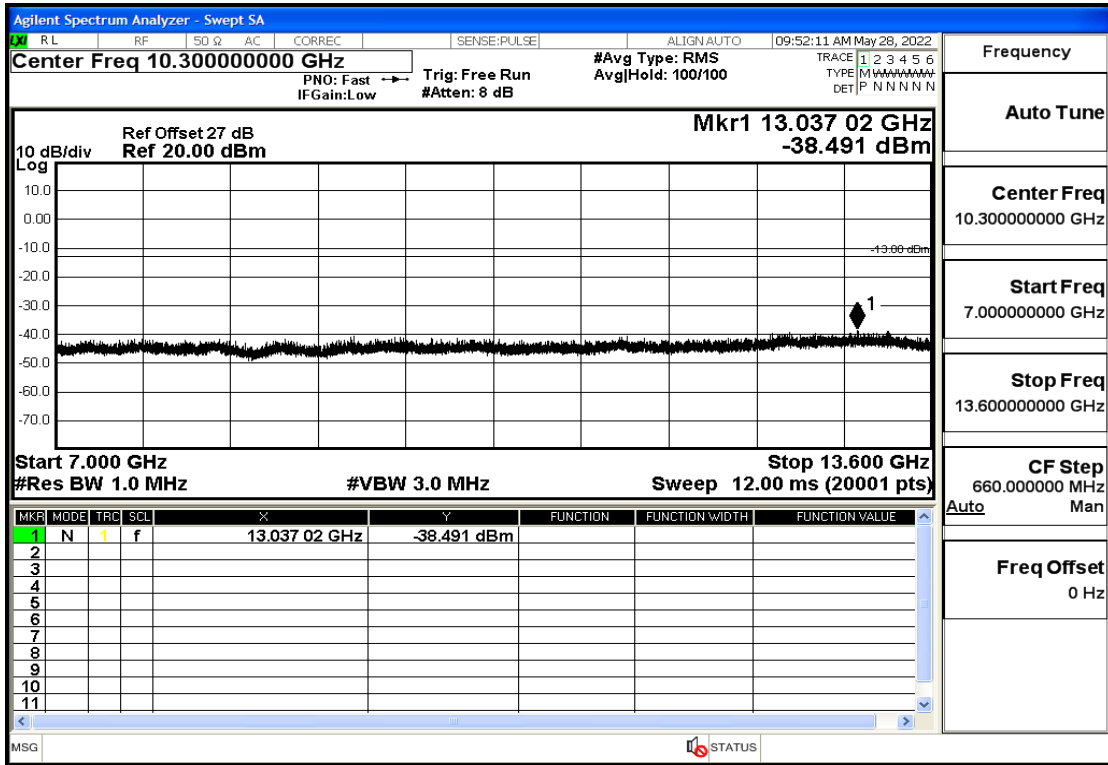
OB4-20-1745-Q16-100#LOW@30mHz-1GHz@Pass



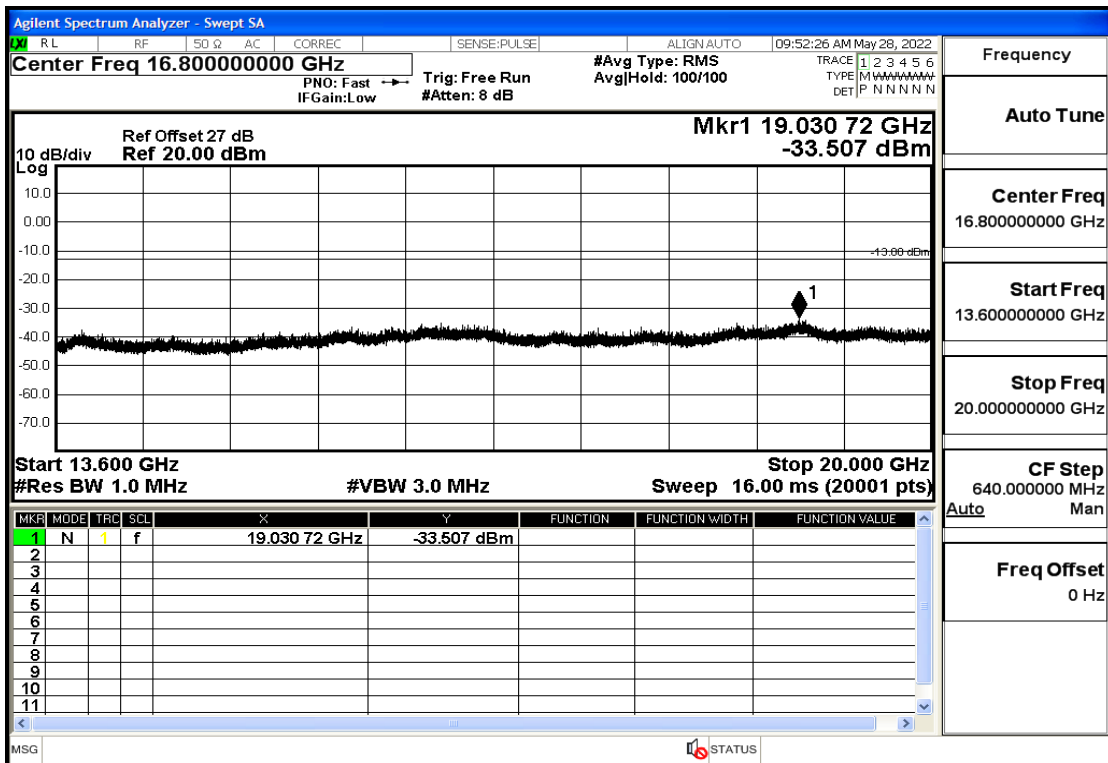
OB4-20-1745-Q16-100#LOW@1GHz-7GHz@Pass



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



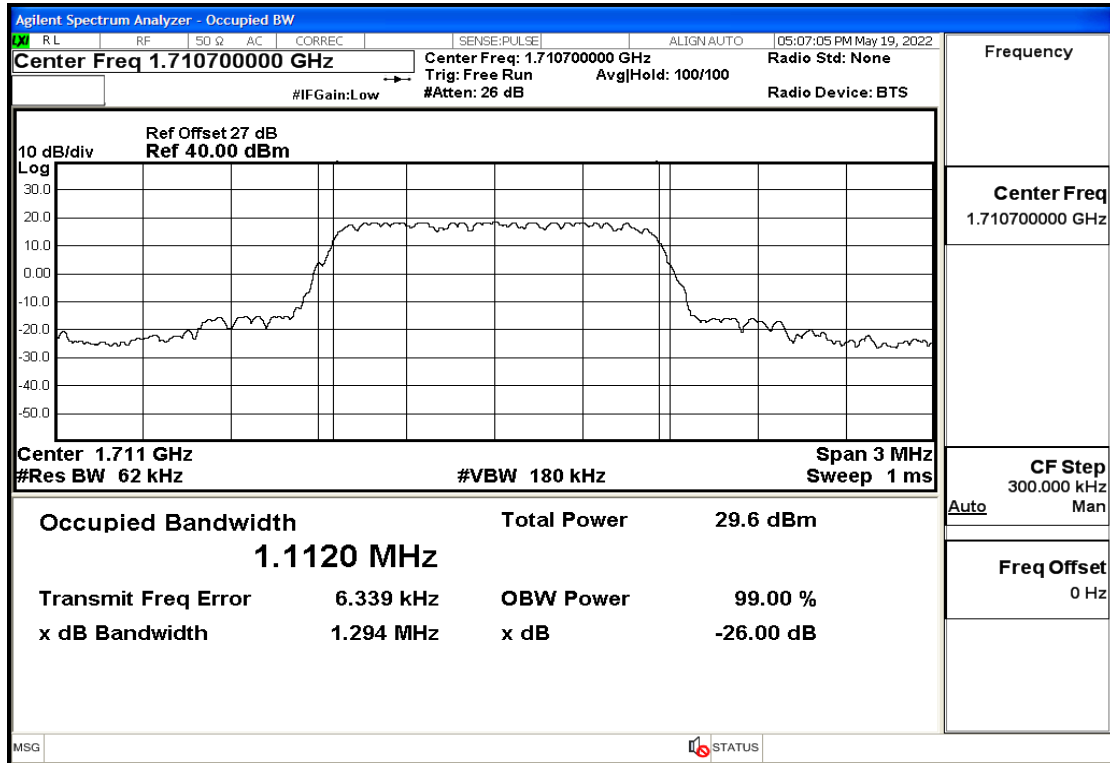
OB4-20-1745-Q16-100#LOW@13.6GHz-20GHz@Pass



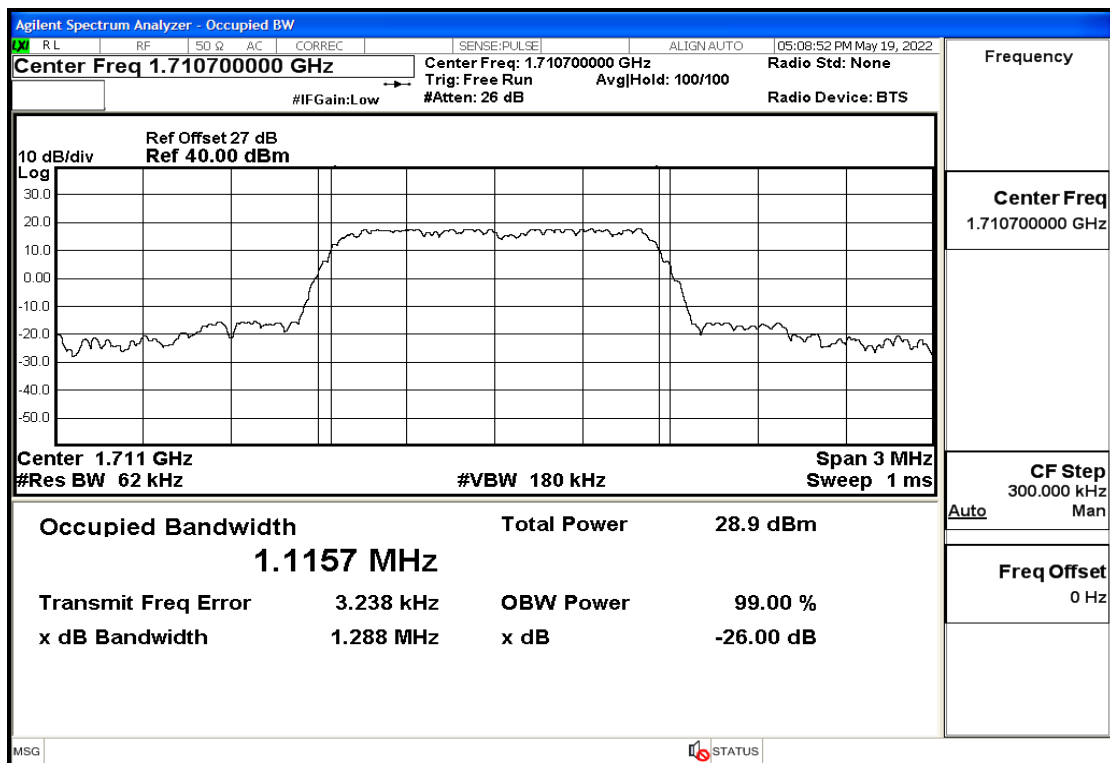
## Emission bandwidth and OBW

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	1112	1294	No limit
Band4	1.4	1710.7	16QAM	6	LOW	1115.7	1288	No limit
Band4	1.4	1732.5	QPSK	6	LOW	1126.4	1297	No limit
Band4	1.4	1732.5	16QAM	6	LOW	1108	1283	No limit
Band4	1.4	1754.3	QPSK	6	LOW	1115.5	1301	No limit
Band4	1.4	1754.3	16QAM	6	LOW	1126.2	1277	No limit
Band4	3	1711.5	QPSK	15	LOW	2758.2	3077	No limit
Band4	3	1711.5	16QAM	15	LOW	2754.9	3087	No limit
Band4	3	1732.5	QPSK	15	LOW	2766.5	3133	No limit
Band4	3	1732.5	16QAM	15	LOW	2762.9	3105	No limit
Band4	3	1753.5	QPSK	15	LOW	2769.8	3068	No limit
Band4	3	1753.5	16QAM	15	LOW	2766.3	3132	No limit
Band4	5	1712.5	QPSK	25	LOW	4569.5	5090	No limit
Band4	5	1712.5	16QAM	25	LOW	4580	5040	No limit
Band4	5	1732.5	QPSK	25	LOW	4591	5131	No limit
Band4	5	1732.5	16QAM	25	LOW	4581.1	5133	No limit
Band4	5	1752.5	QPSK	25	LOW	4587.6	5080	No limit
Band4	5	1752.5	16QAM	25	LOW	4577.9	5078	No limit
Band4	10	1715	QPSK	50	LOW	9087.1	10030	No limit
Band4	10	1715	16QAM	50	LOW	9091.5	10130	No limit
Band4	10	1732.5	QPSK	50	LOW	9117.5	10020	No limit
Band4	10	1732.5	16QAM	50	LOW	9081.3	10090	No limit
Band4	10	1750	QPSK	50	LOW	9153.5	10130	No limit
Band4	10	1750	16QAM	50	LOW	9095.7	10070	No limit
Band4	15	1717.5	QPSK	75	LOW	13656	15110	No limit
Band4	15	1717.5	16QAM	75	LOW	13696	15260	No limit
Band4	15	1732.5	QPSK	75	LOW	13620	15150	No limit
Band4	15	1732.5	16QAM	75	LOW	13707	15150	No limit
Band4	15	1747.5	QPSK	75	LOW	13653	15320	No limit
Band4	15	1747.5	16QAM	75	LOW	13648	15050	No limit
Band4	20	1720	QPSK	100	LOW	18258	20200	No limit
Band4	20	1720	16QAM	100	LOW	18245	19960	No limit
Band4	20	1732.5	QPSK	100	LOW	18217	20100	No limit
Band4	20	1732.5	16QAM	100	LOW	18259	19860	No limit
Band4	20	1745	QPSK	100	LOW	18195	20380	No limit
Band4	20	1745	16QAM	100	LOW	18227	20120	No limit

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

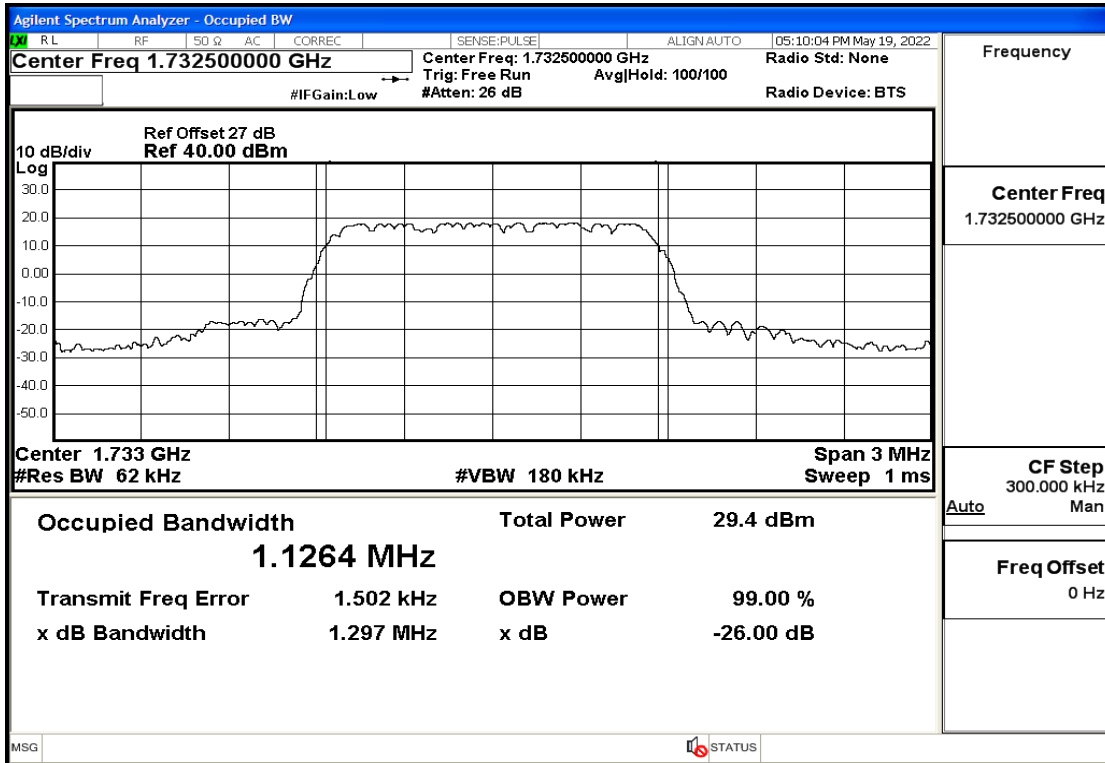


Band4-1.4-1710.7-16QAM-6#LOW@26dB and 99PCT Bandwidth

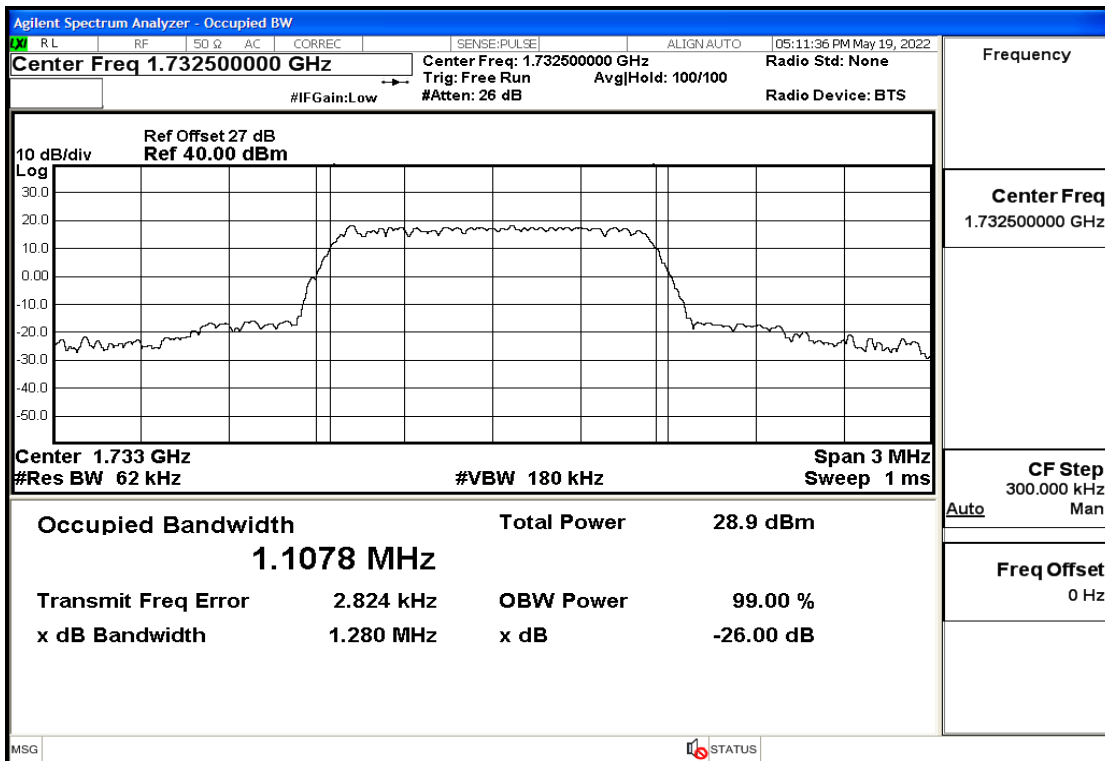




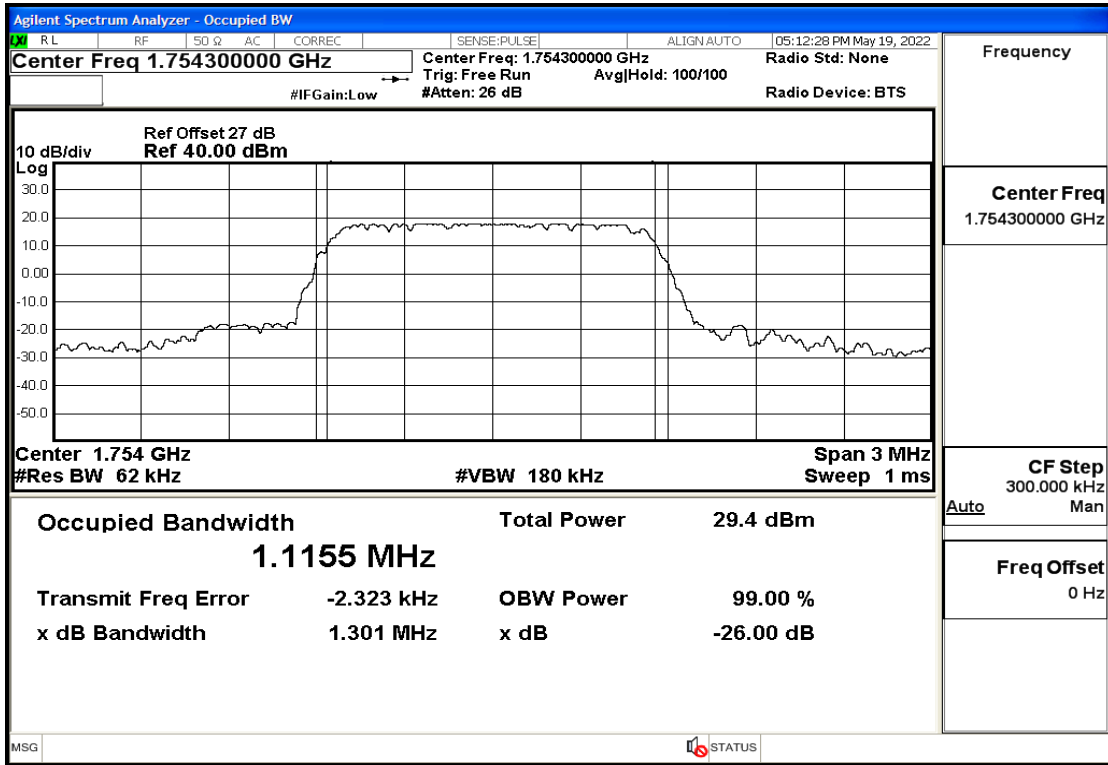
Band4-1.4-1732.5-QPSK-6#LOW@26dB and 99PCT Bandwidth



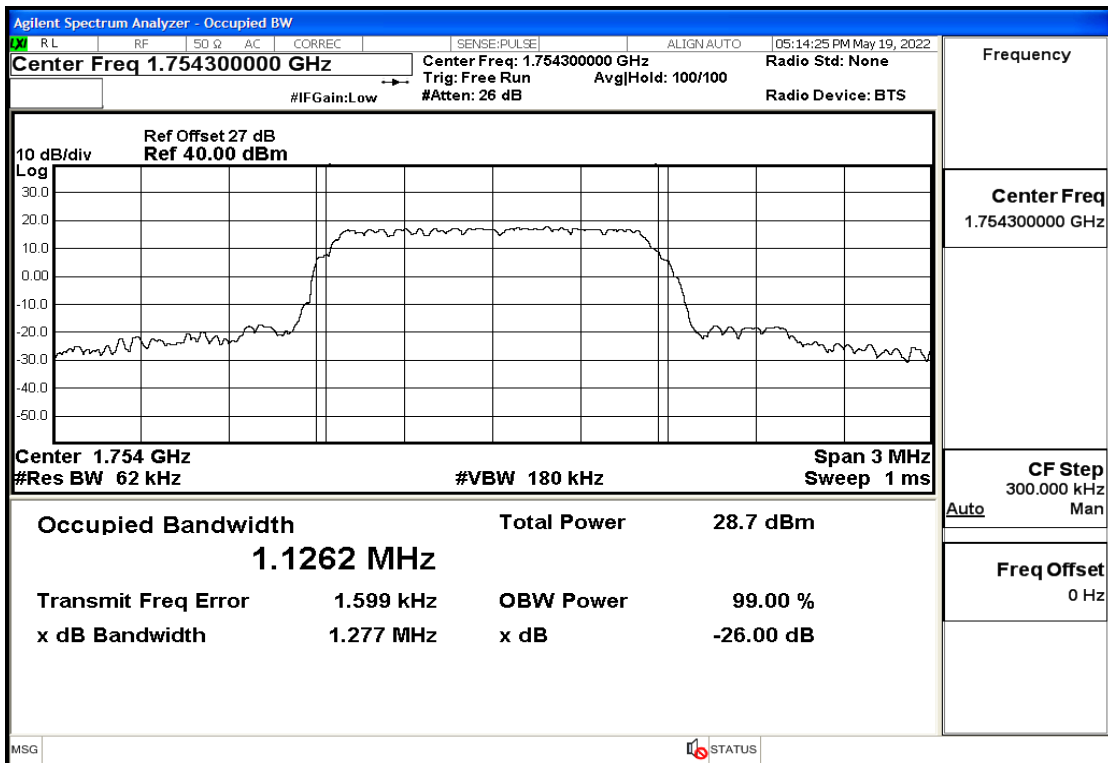
Band4-1.4-1732.5-16QAM-6#LOW@26dB and 99PCT Bandwidth



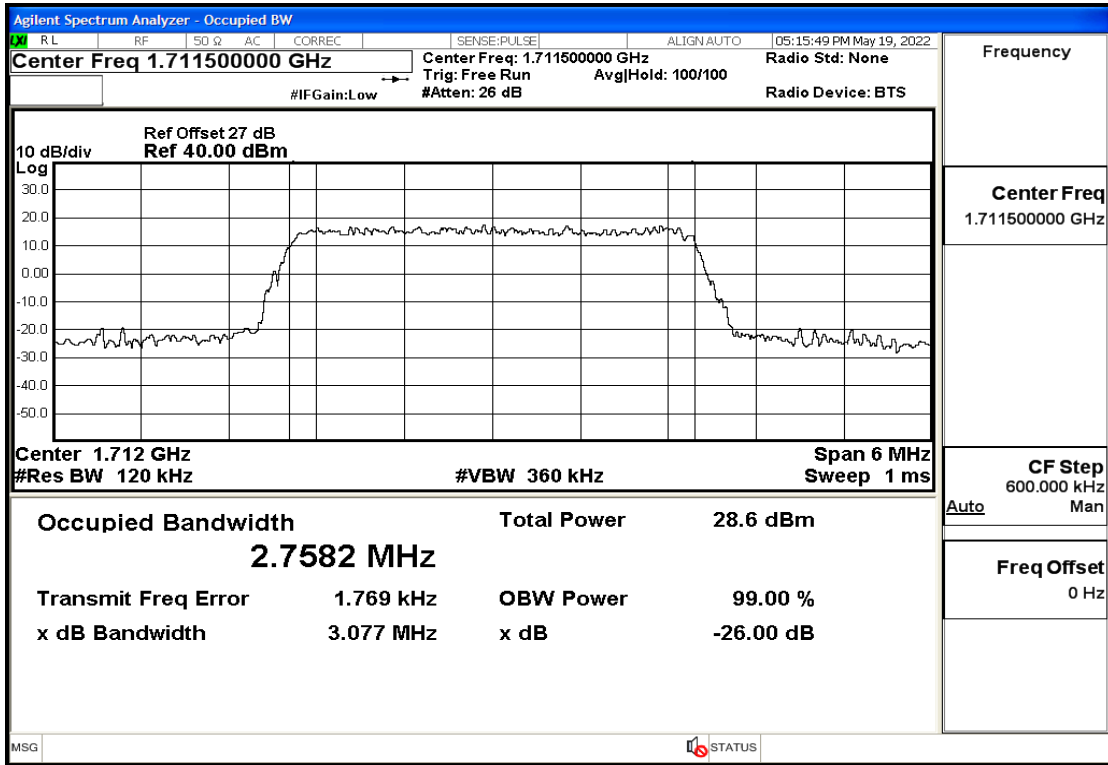
Band4-1.4-1754.3-QPSK-6#LOW@26dB and 99PCT Bandwidth



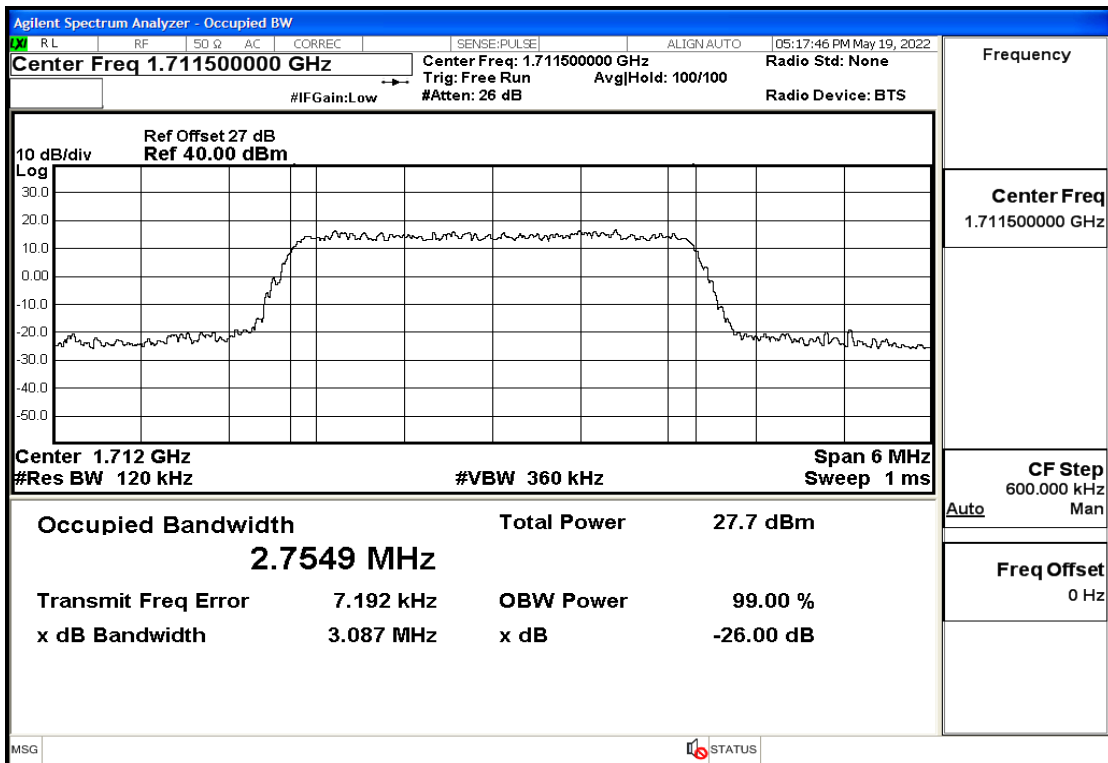
Band4-1.4-1754.3-16QAM-6#LOW@26dB and 99PCT Bandwidth



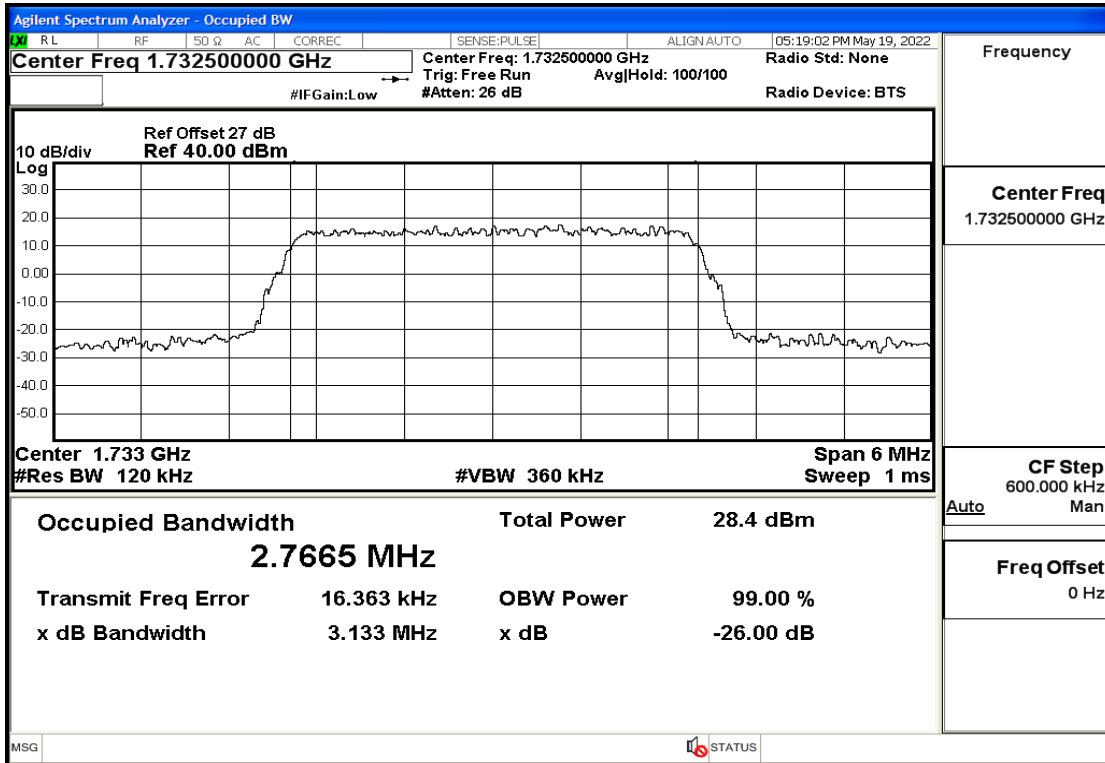
Band4-3-1711.5-QPSK-15#LOW@26dB and 99PCT Bandwidth



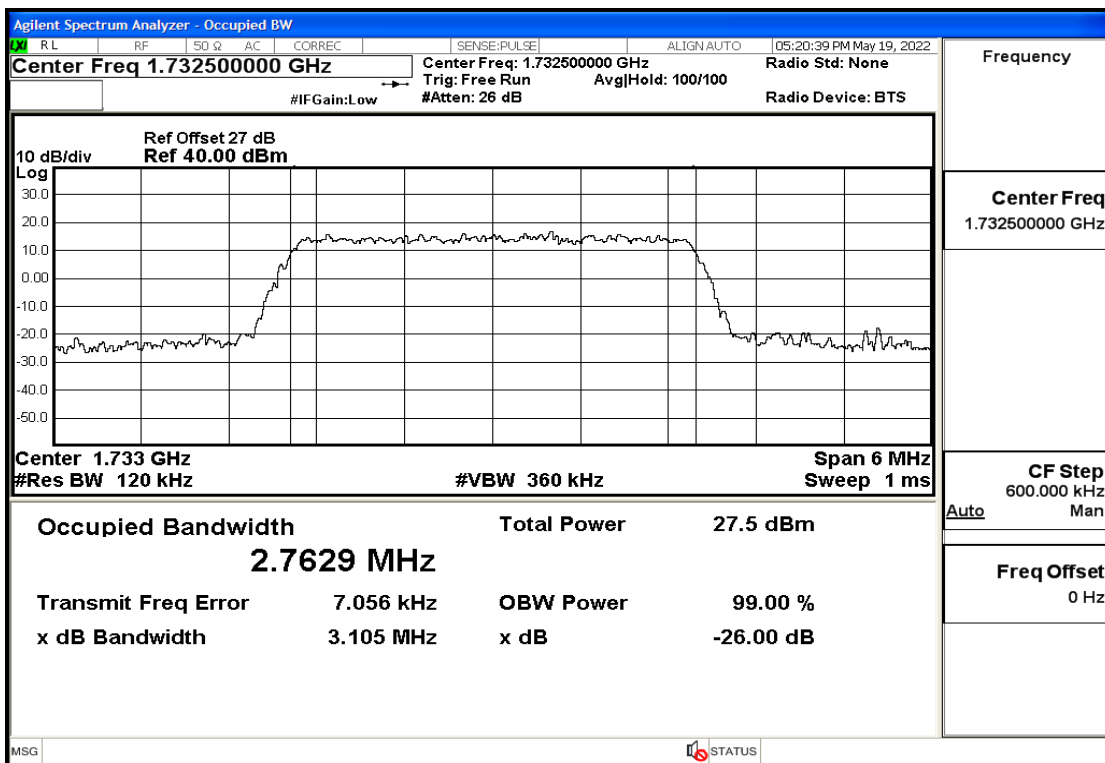
Band4-3-1711.5-16QAM-15#LOW@26dB and 99PCT Bandwidth



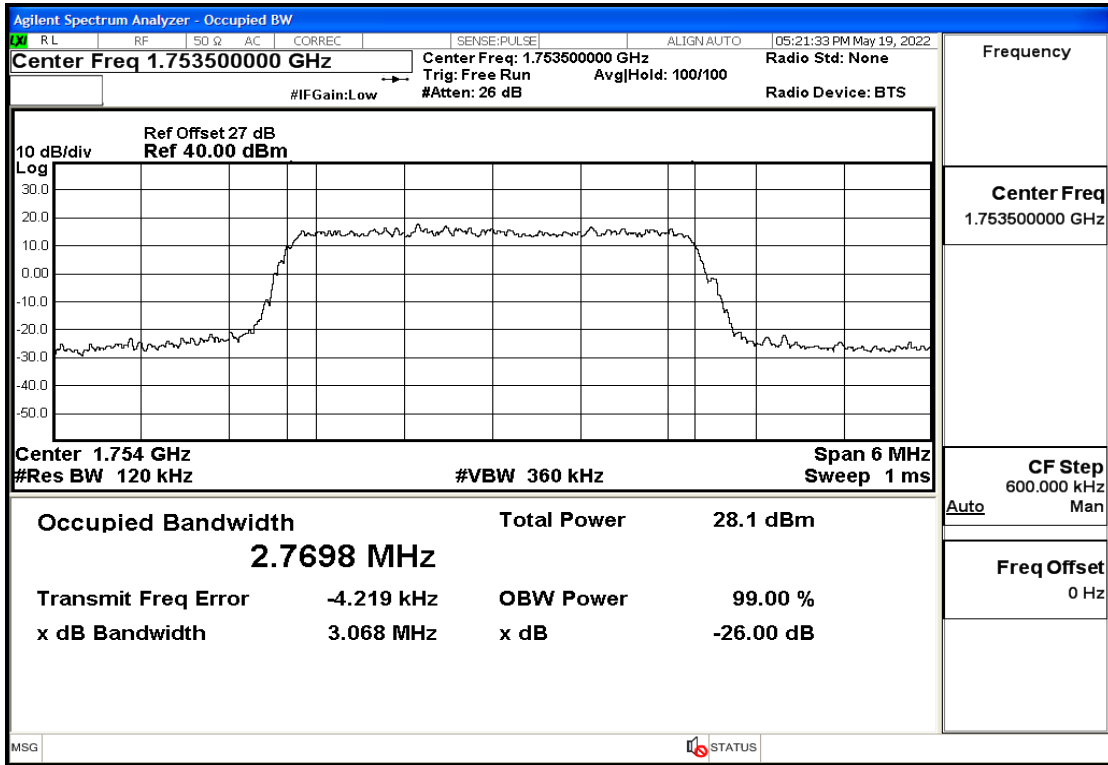
Band4-3-1732.5-QPSK-15#LOW@26dB and 99PCT Bandwidth



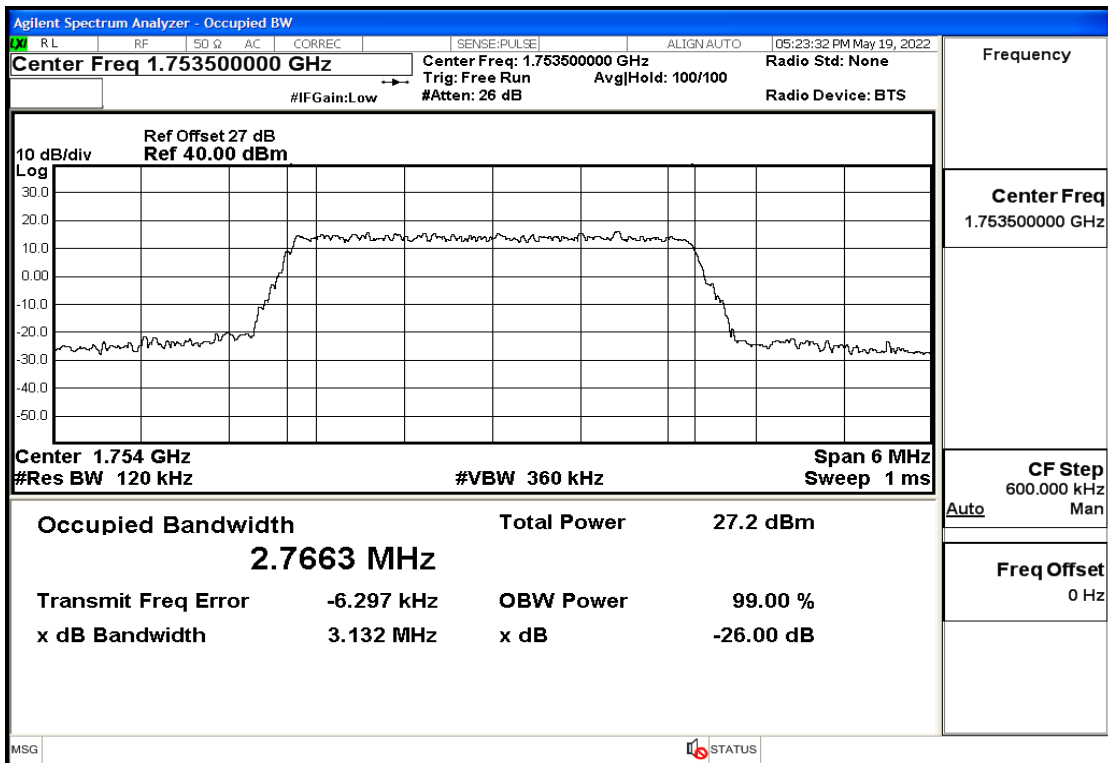
Band4-3-1732.5-16QAM-15#LOW@26dB and 99PCT Bandwidth



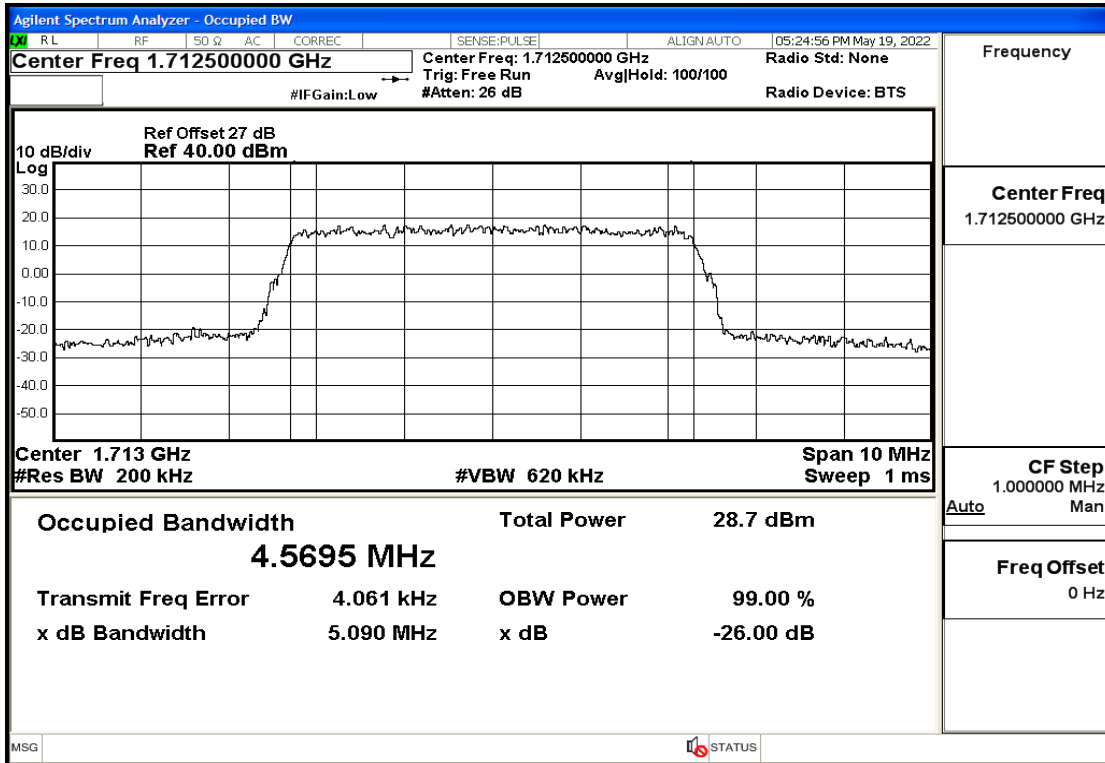
Band4-3-1753.5-QPSK-15#LOW@26dB and 99PCT Bandwidth



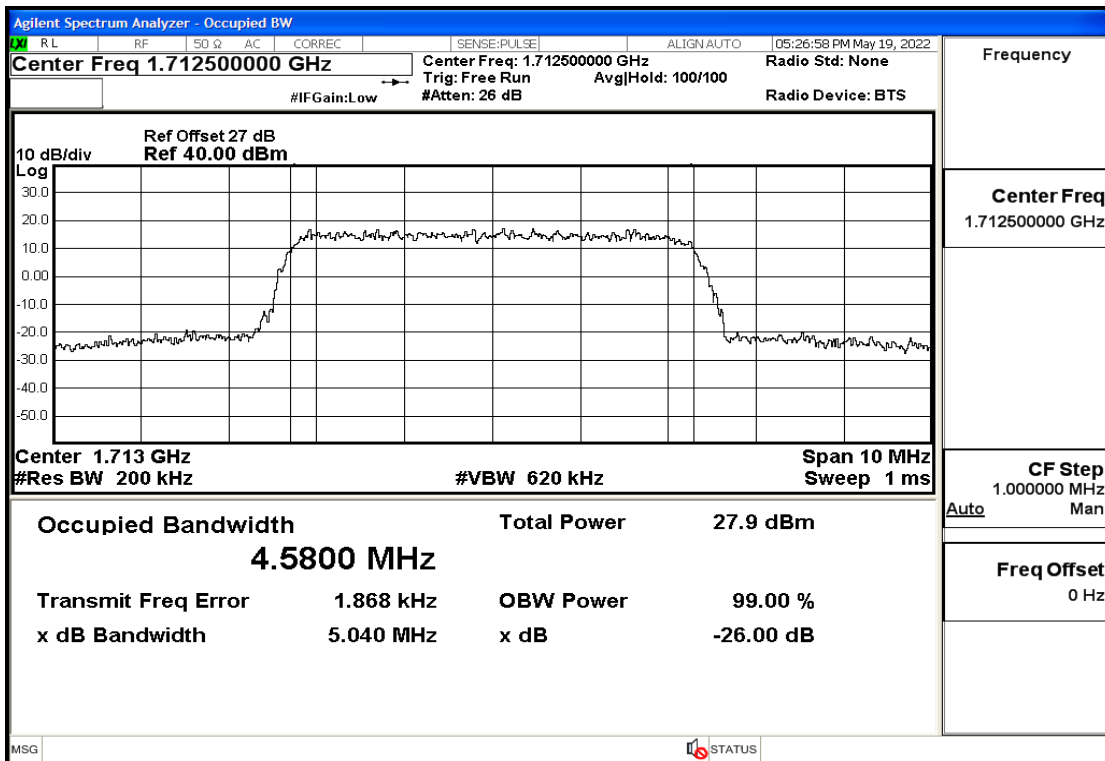
Band4-3-1753.5-16QAM-15#LOW@26dB and 99PCT Bandwidth



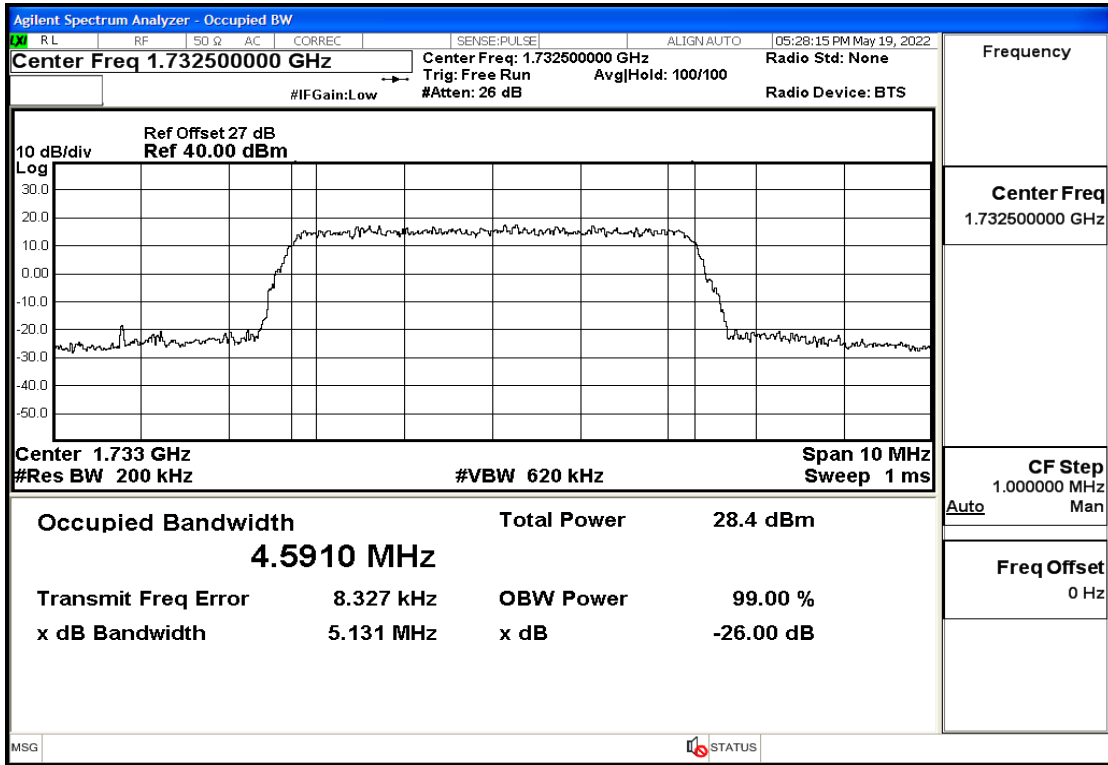
Band4-5-1712.5-QPSK-25#LOW@26dB and 99PCT Bandwidth



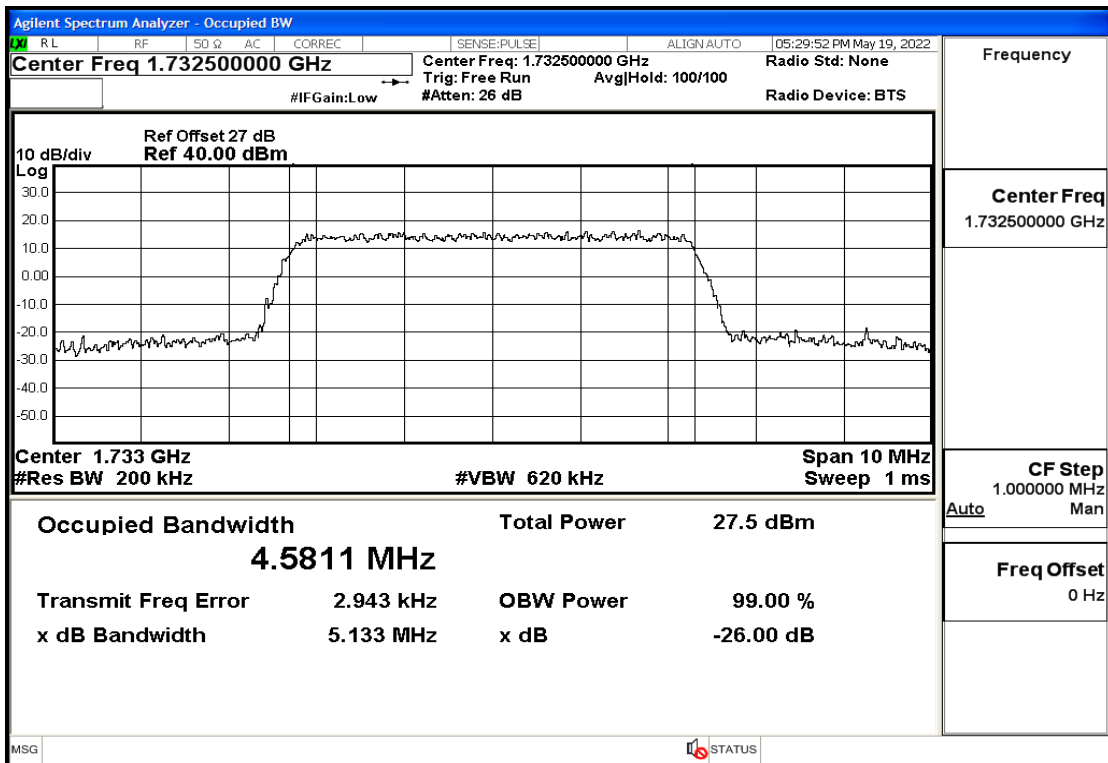
Band4-5-1712.5-16QAM-25#LOW@26dB and 99PCT Bandwidth



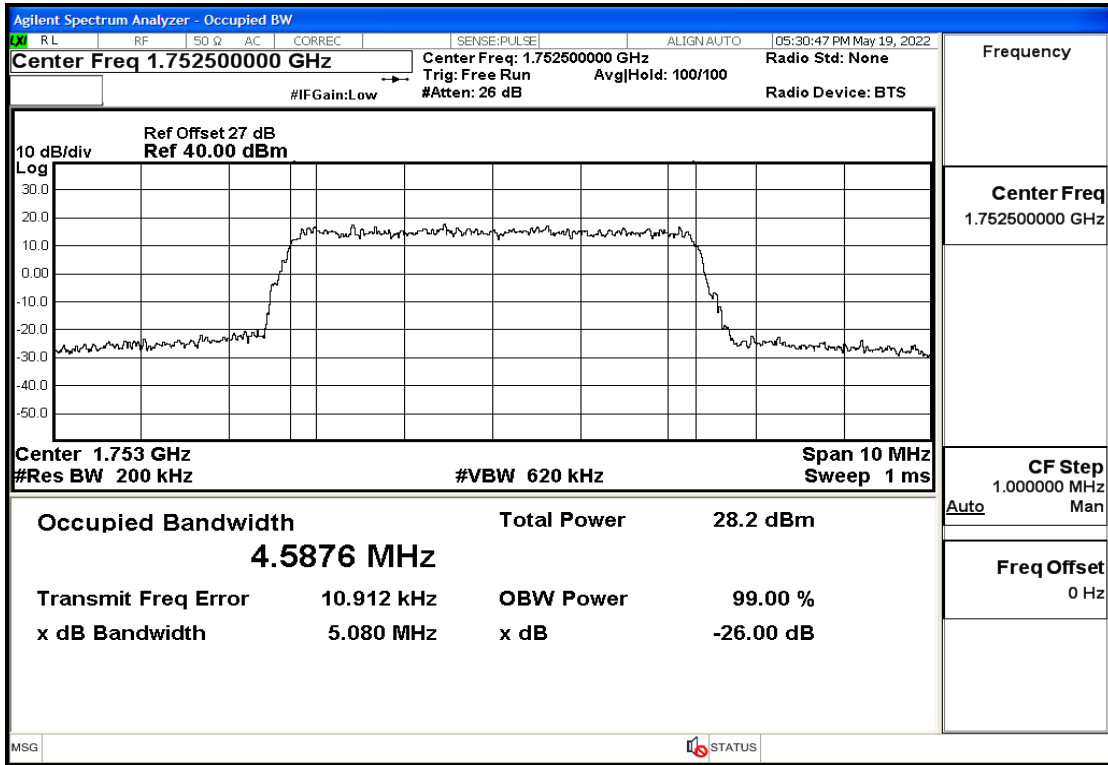
Band4-5-1732.5-QPSK-25#LOW@26dB and 99PCT Bandwidth



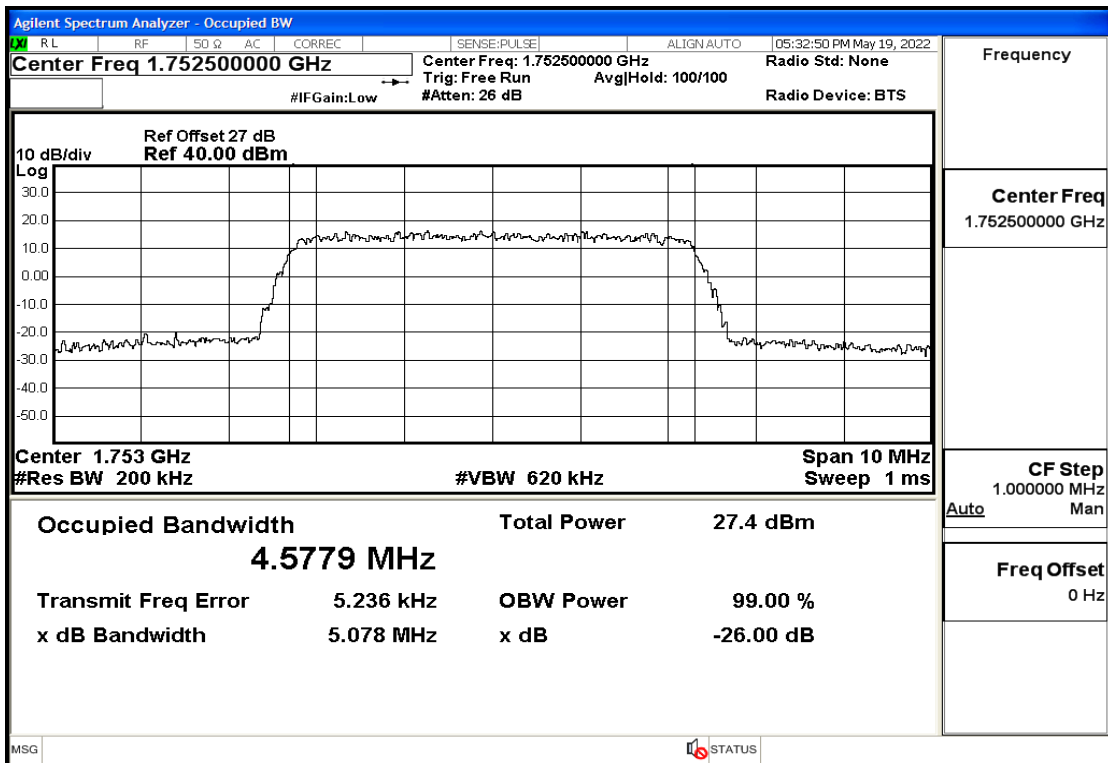
Band4-5-1732.5-16QAM-25#LOW@26dB and 99PCT Bandwidth



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

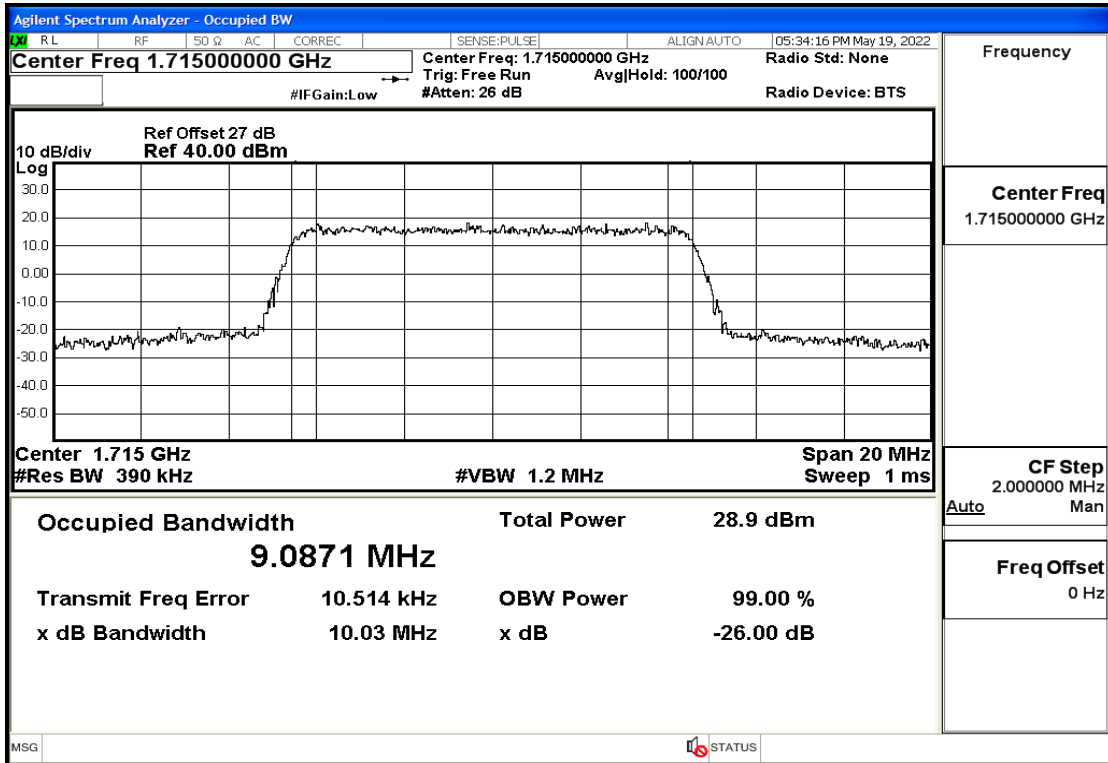


Band4-5-1752.5-16QAM-25#LOW@26dB and 99PCT Bandwidth

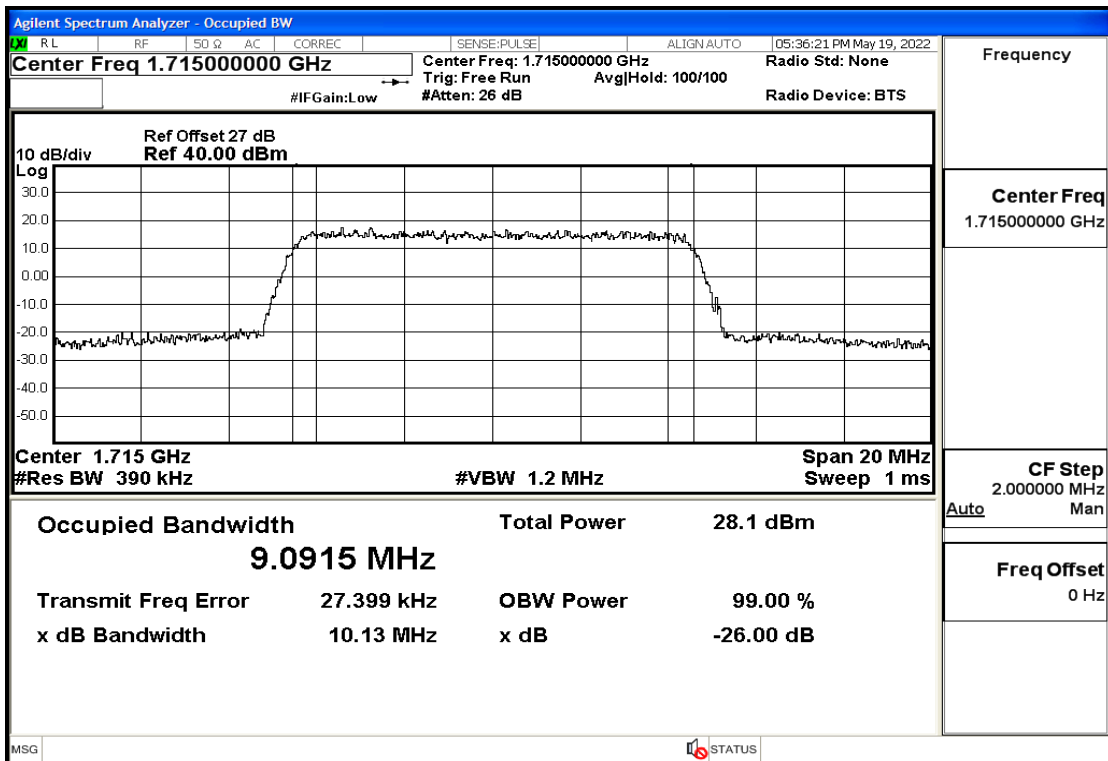




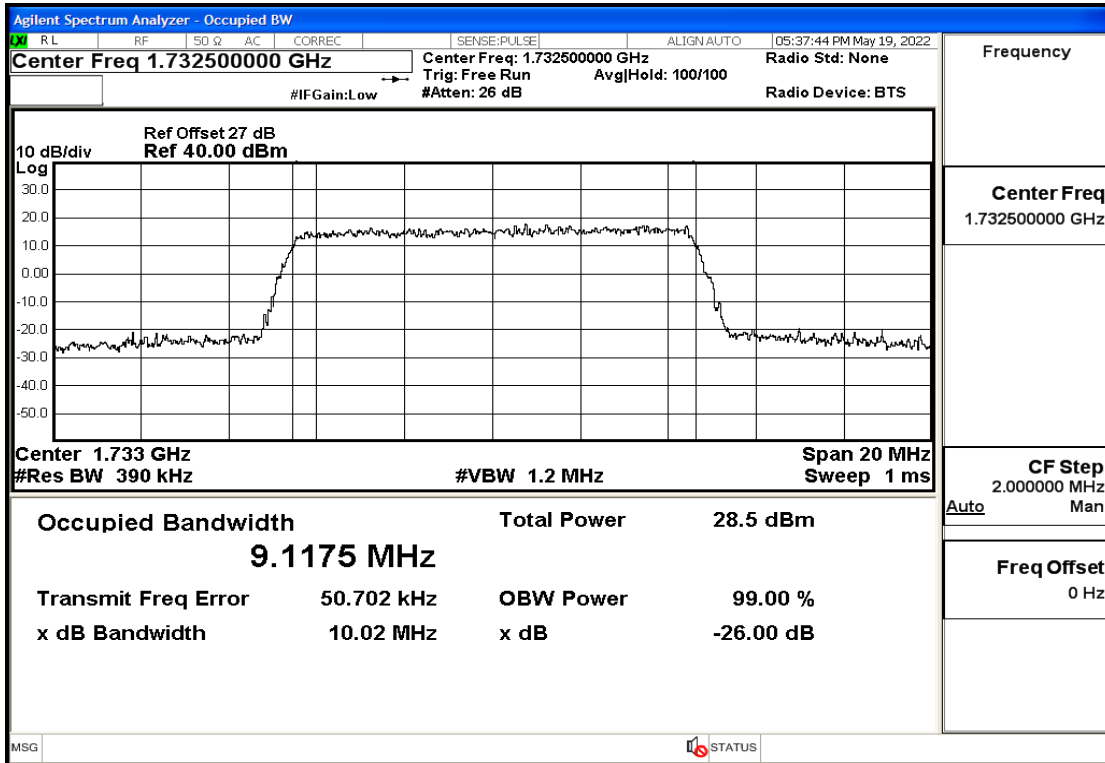
Band4-10-1715-QPSK-50#LOW@26dB and 99PCT Bandwidth



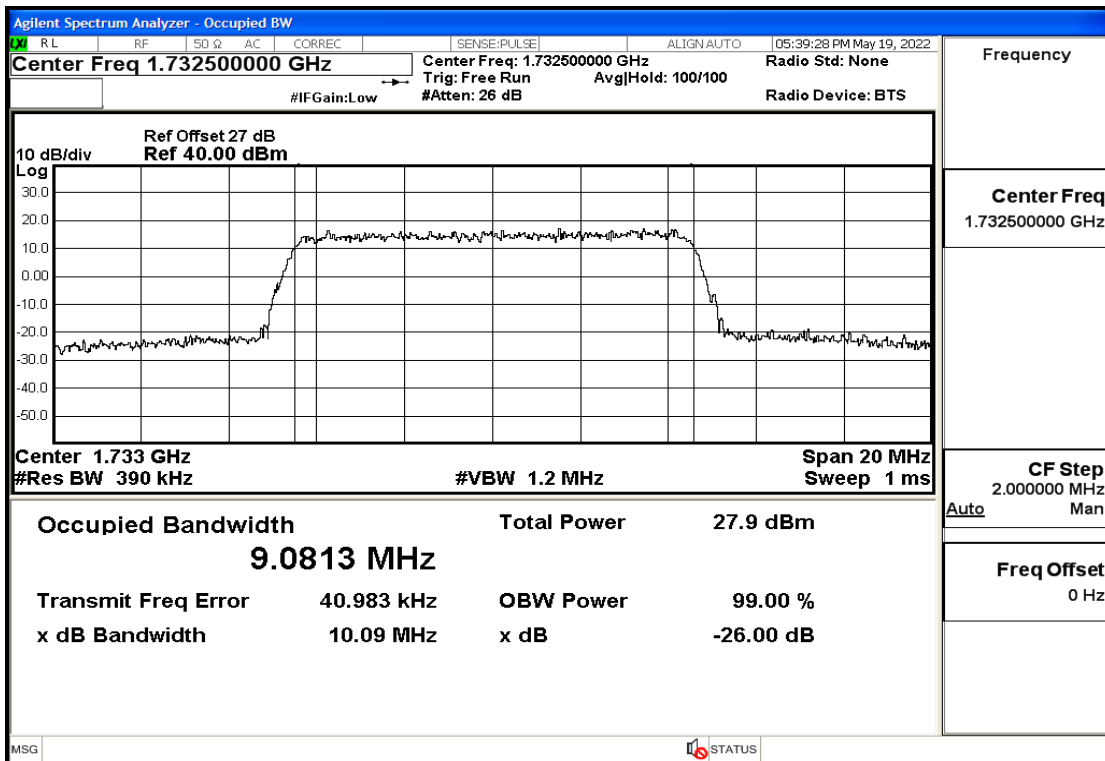
Band4-10-1715-16QAM-50#LOW@26dB and 99PCT Bandwidth



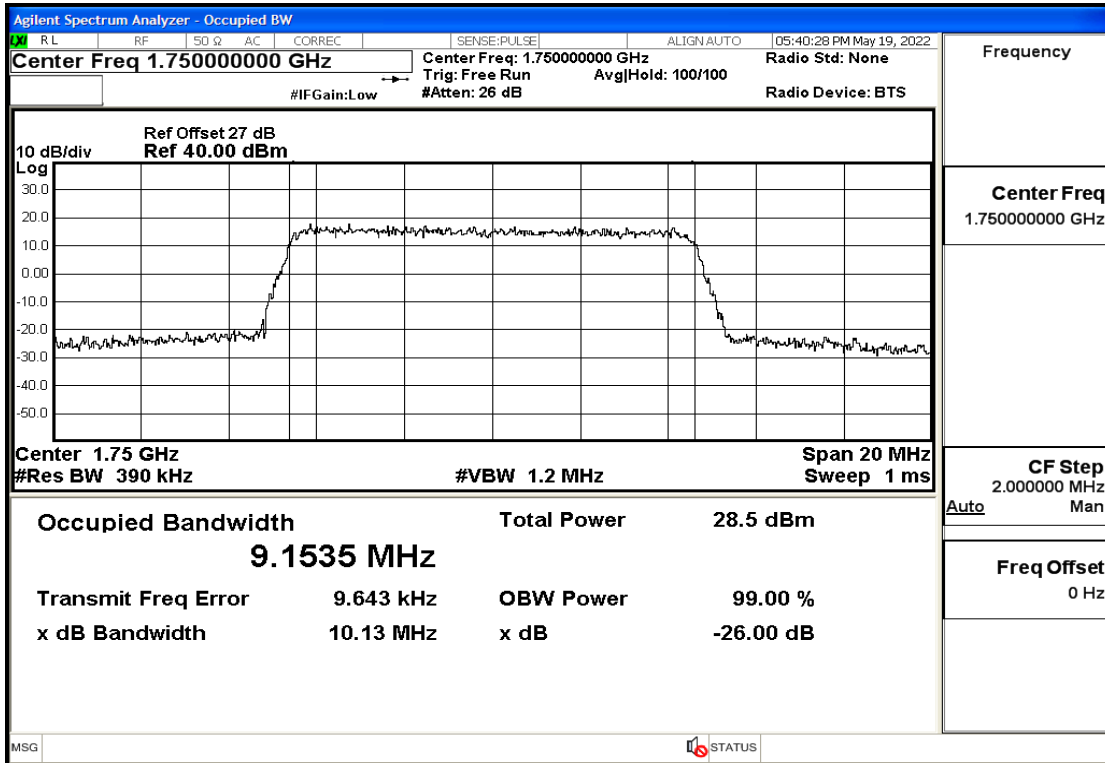
Band4-10-1732.5-QPSK-50#LOW@26dB and 99PCT Bandwidth



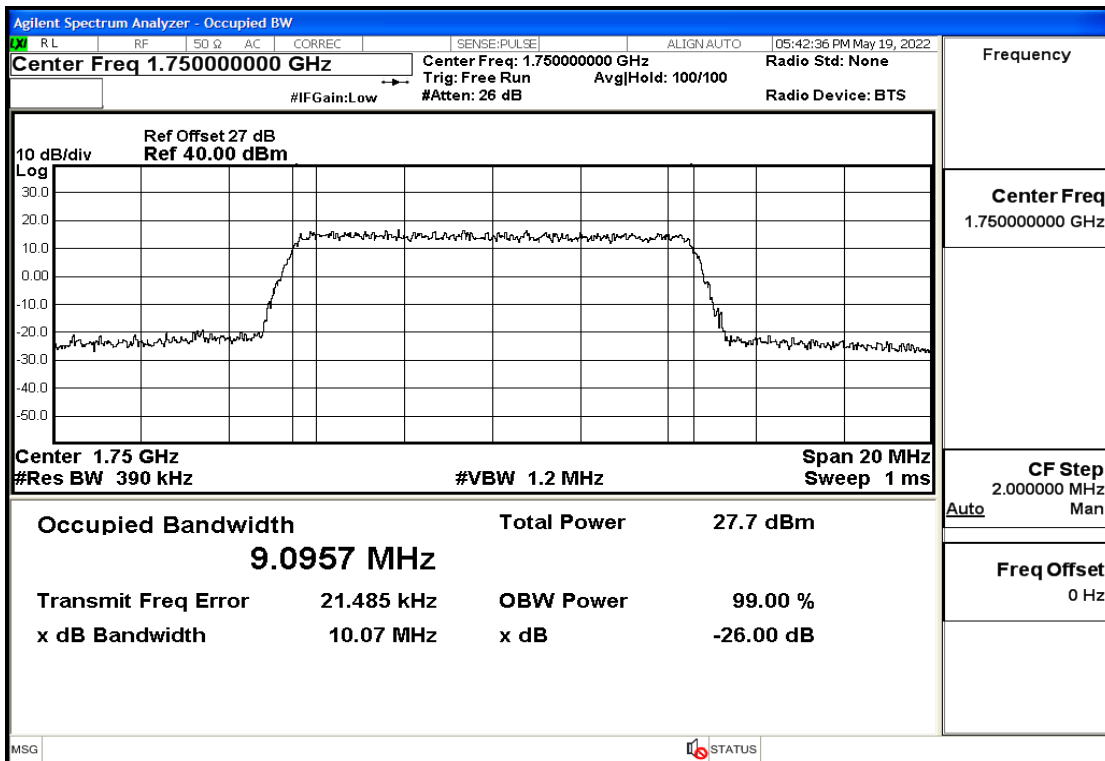
Band4-10-1732.5-16QAM-50#LOW@26dB and 99PCT Bandwidth



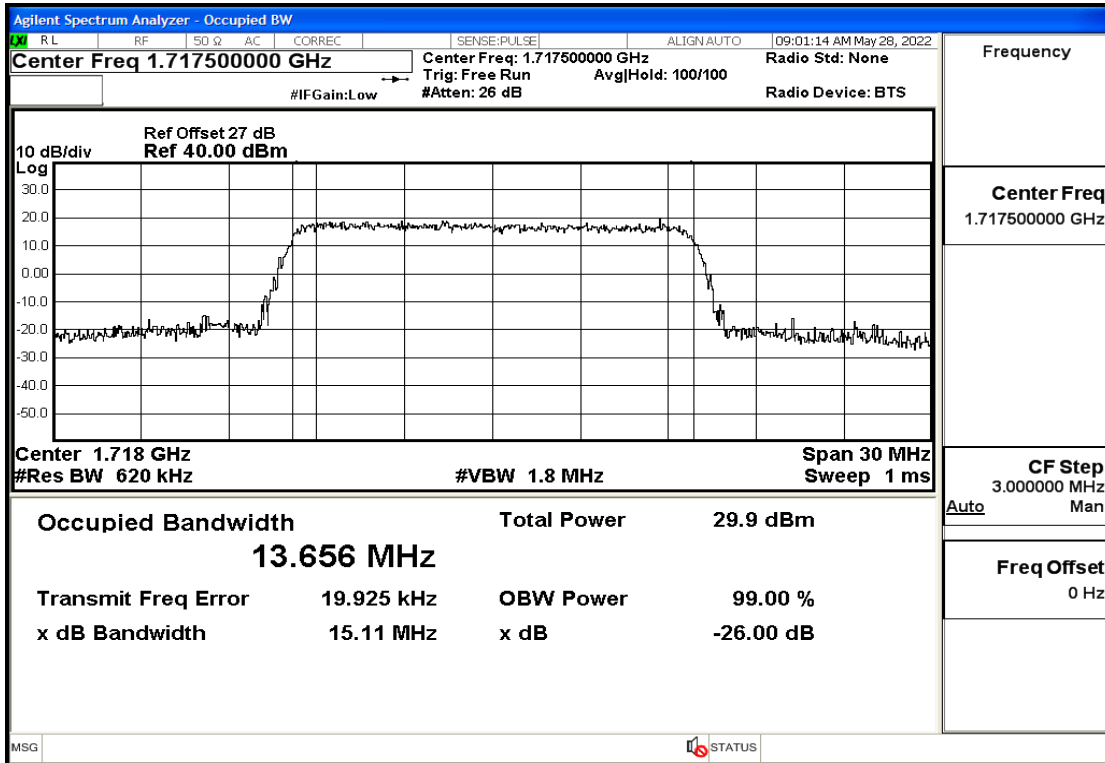
Band4-10-1750-QPSK-50#LOW@26dB and 99PCT Bandwidth



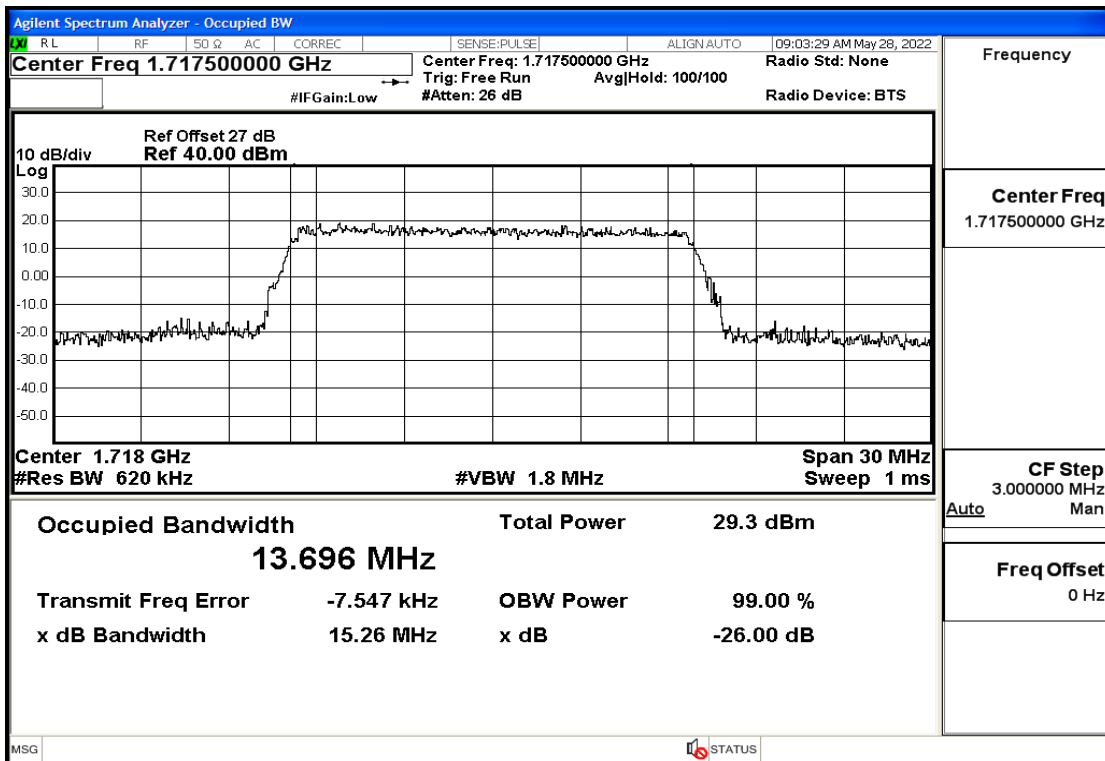
Band4-10-1750-16QAM-50#LOW@26dB and 99PCT Bandwidth



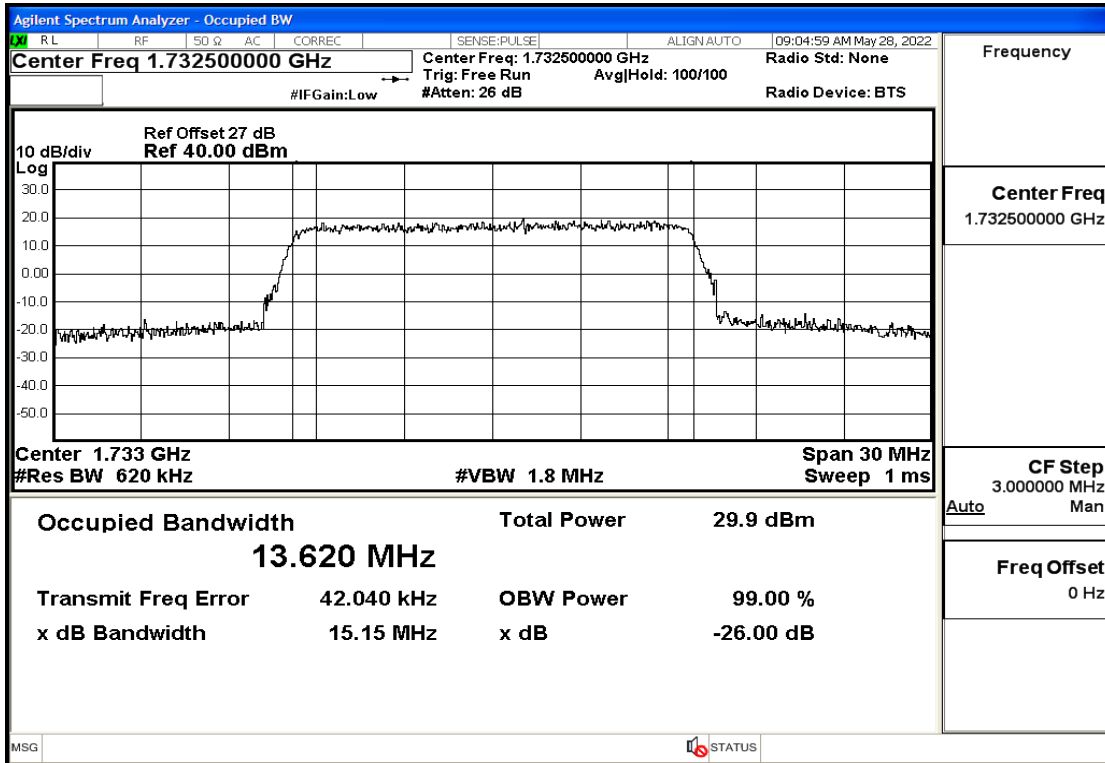
Band4-15-1717.5-QPSK-75#LOW@26dB and 99PCT Bandwidth



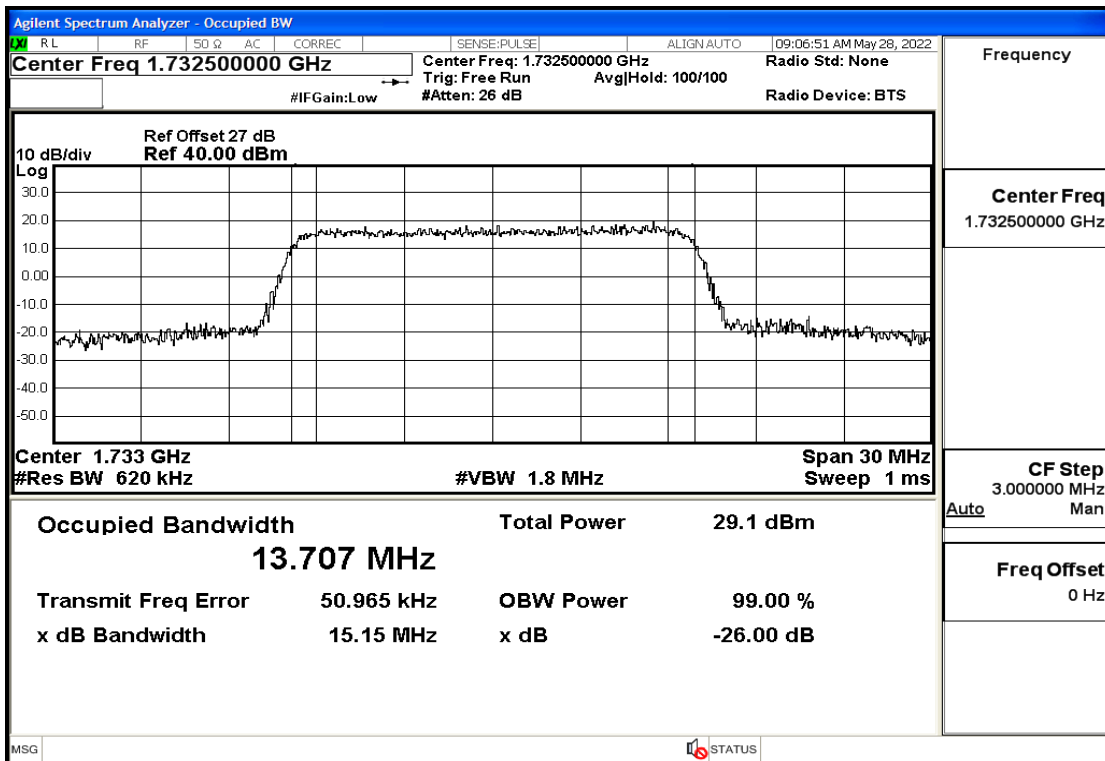
Band4-15-1717.5-16QAM-75#LOW@26dB and 99PCT Bandwidth



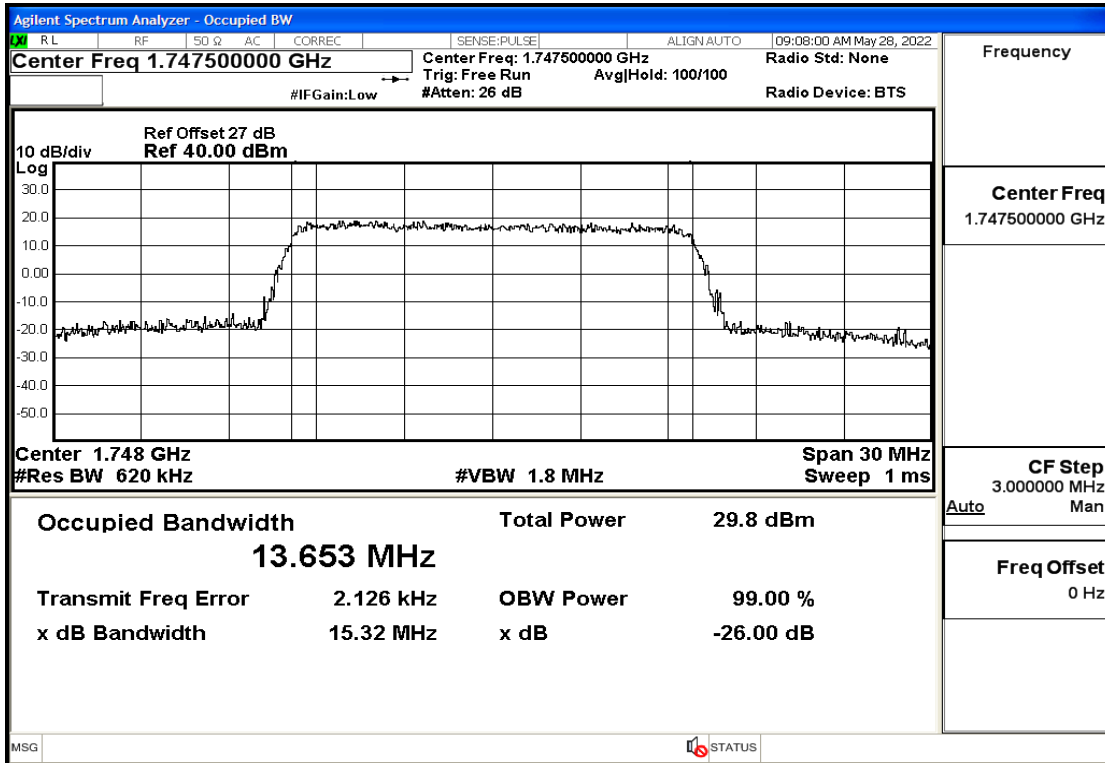
Band4-15-1732.5-QPSK-75#LOW@26dB and 99PCT Bandwidth



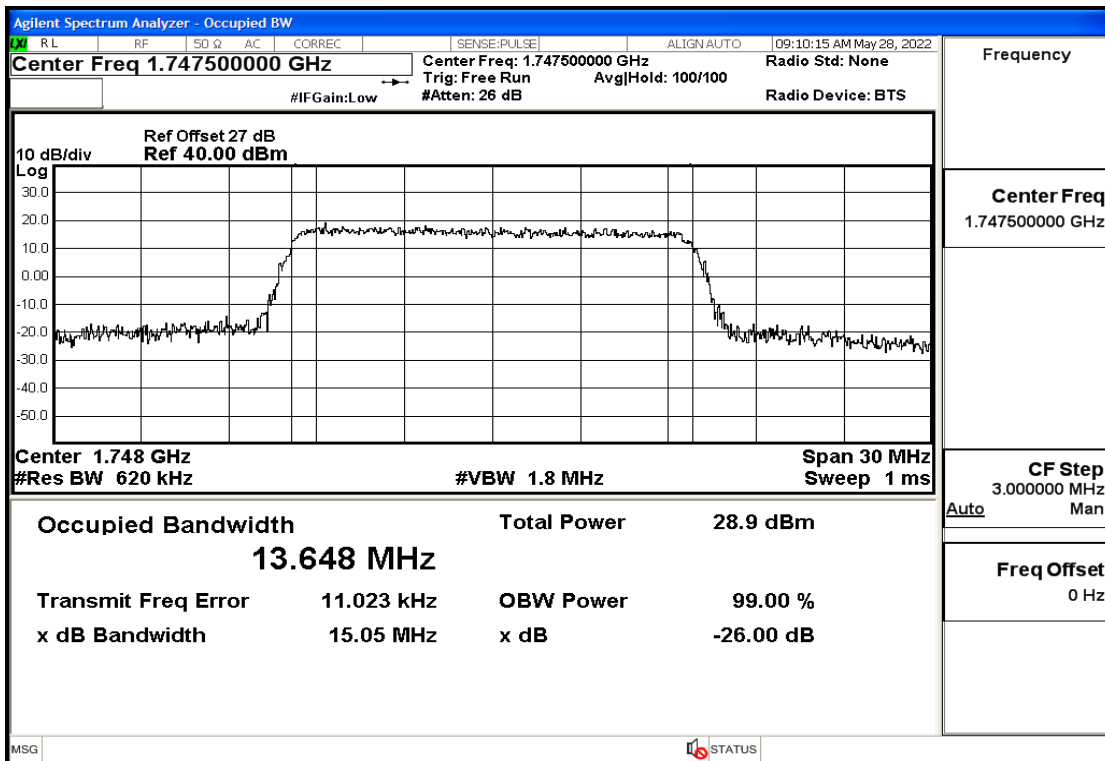
Band4-15-1732.5-16QAM-75#LOW@26dB and 99PCT Bandwidth



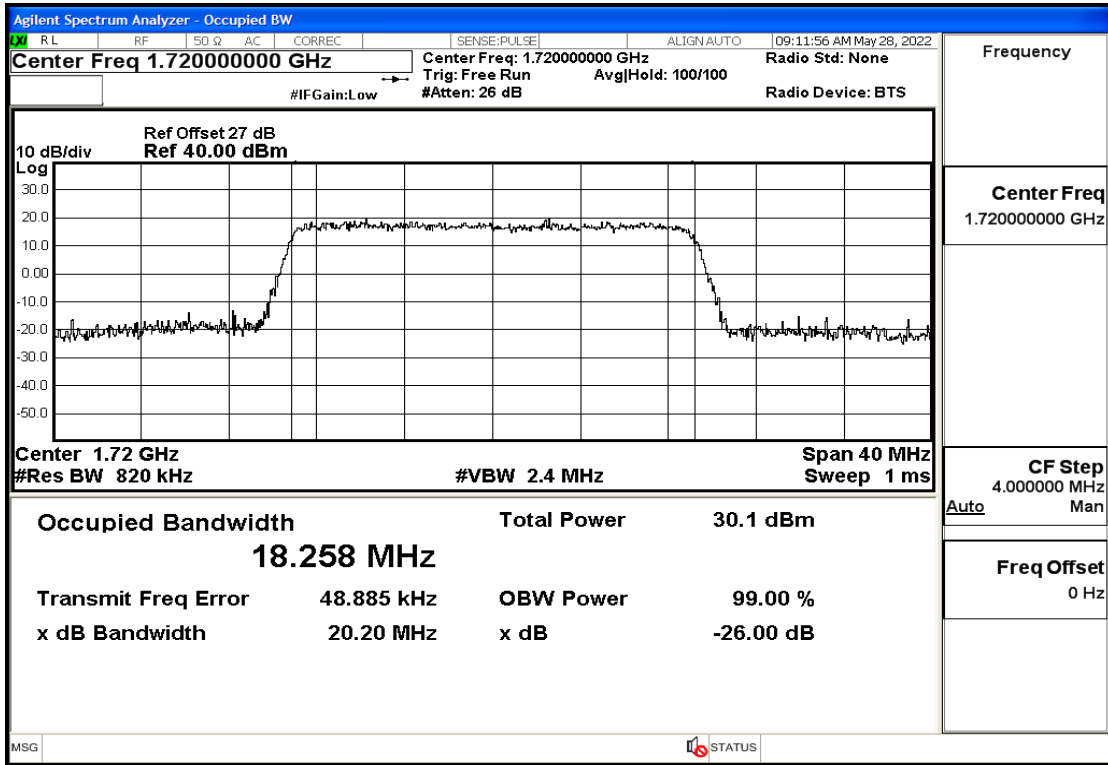
Band4-15-1747.5-QPSK-75#LOW@26dB and 99PCT Bandwidth



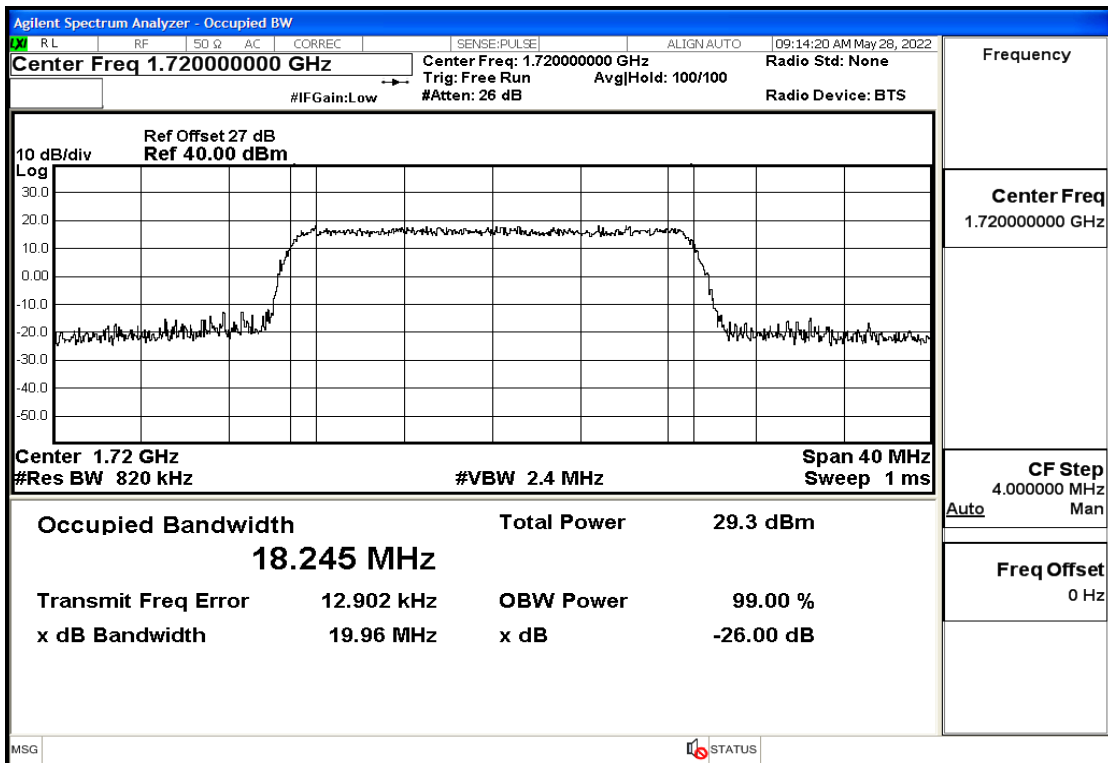
Band4-15-1747.5-16QAM-75#LOW@26dB and 99PCT Bandwidth



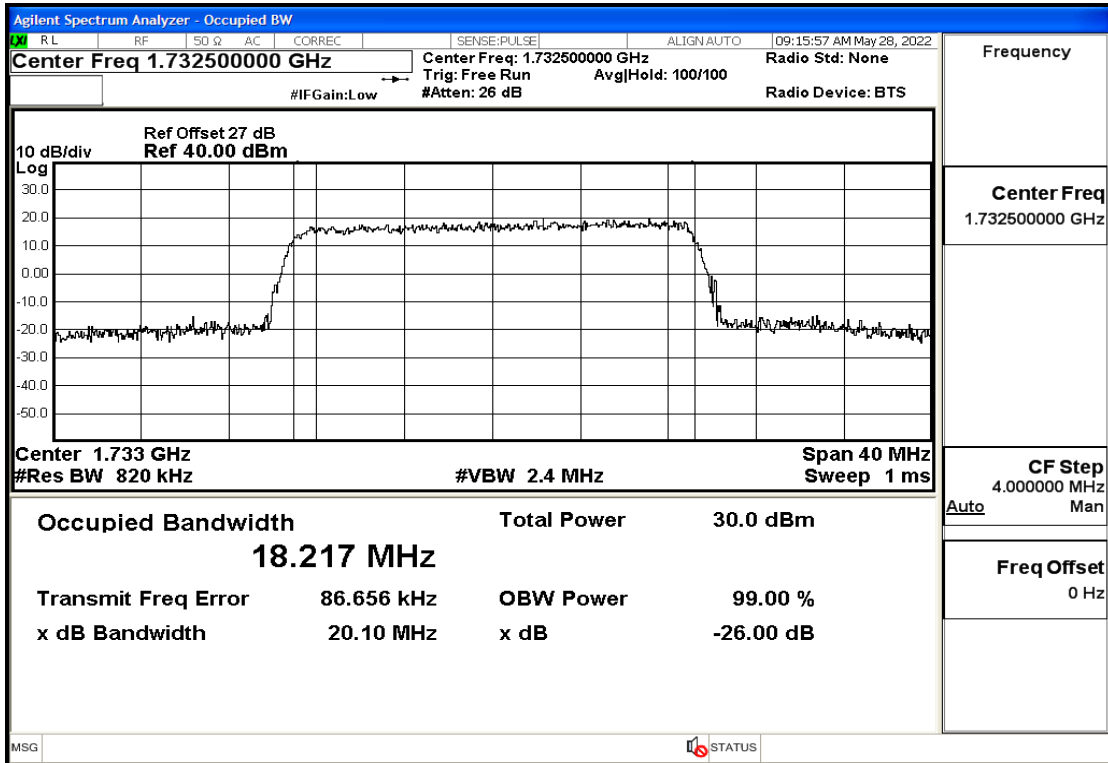
Band4-20-1720-QPSK-100#LOW@26dB and 99PCT Bandwidth



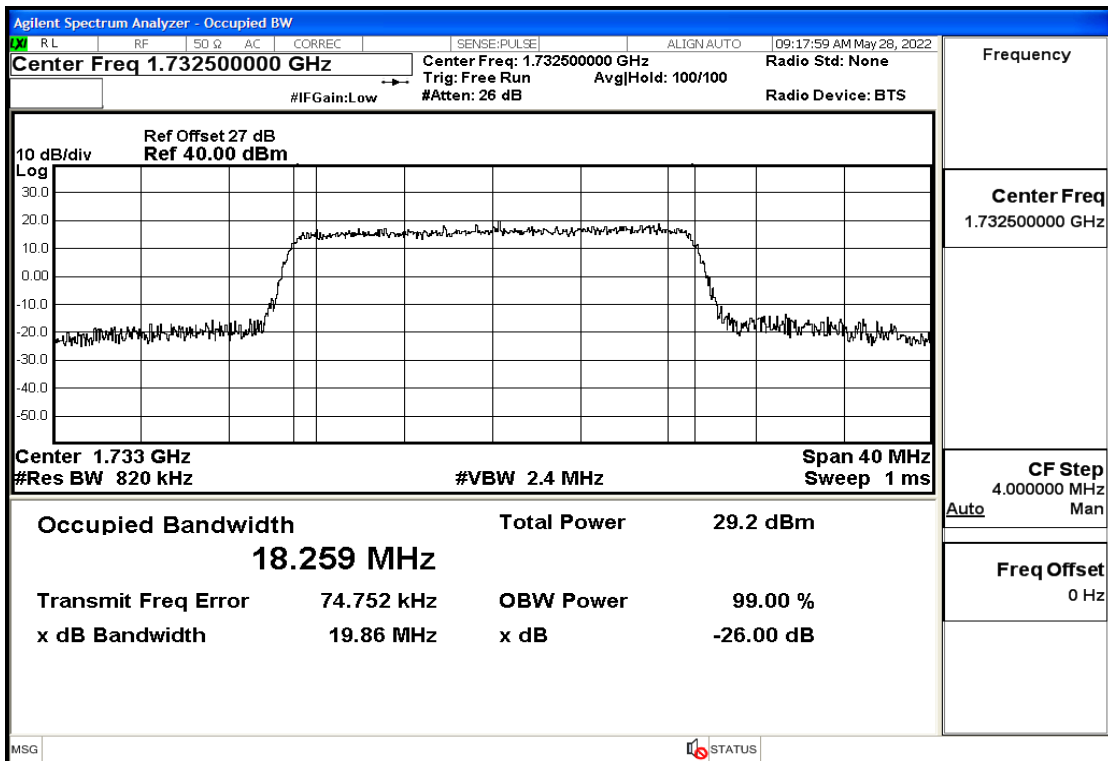
Band4-20-1720-16QAM-100#LOW@26dB and 99PCT Bandwidth



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

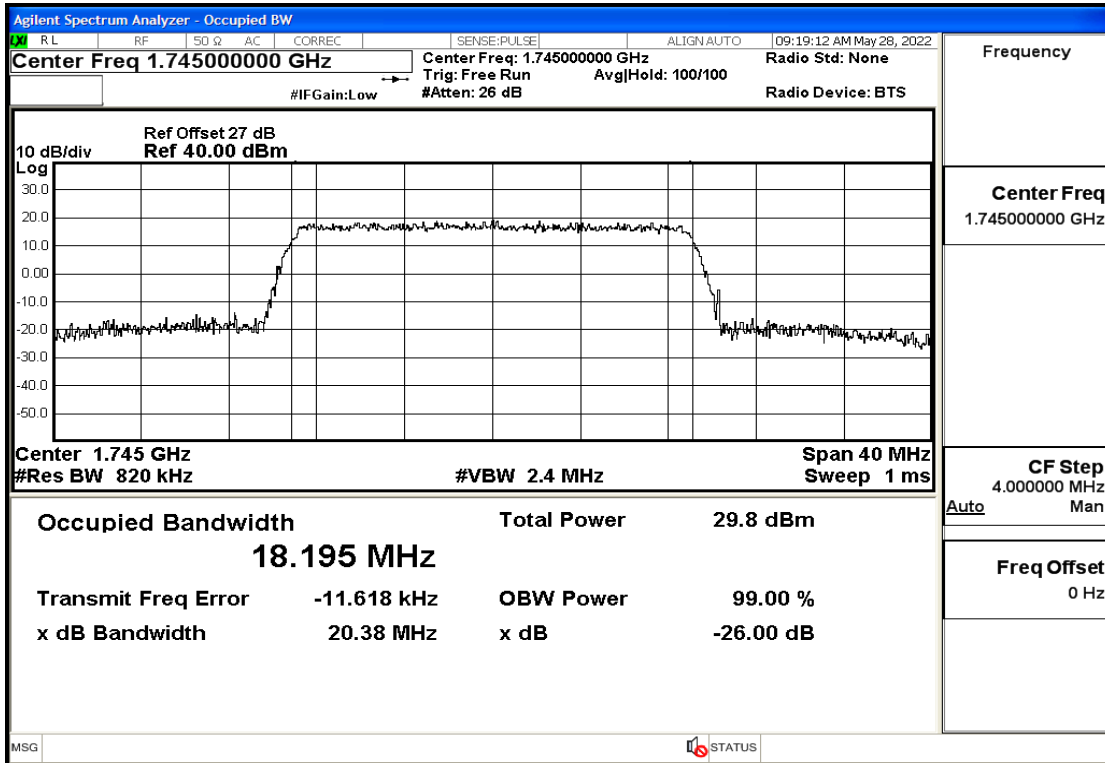


Band4-20-1732.5-16QAM-100#LOW@26dB and 99PCT Bandwidth

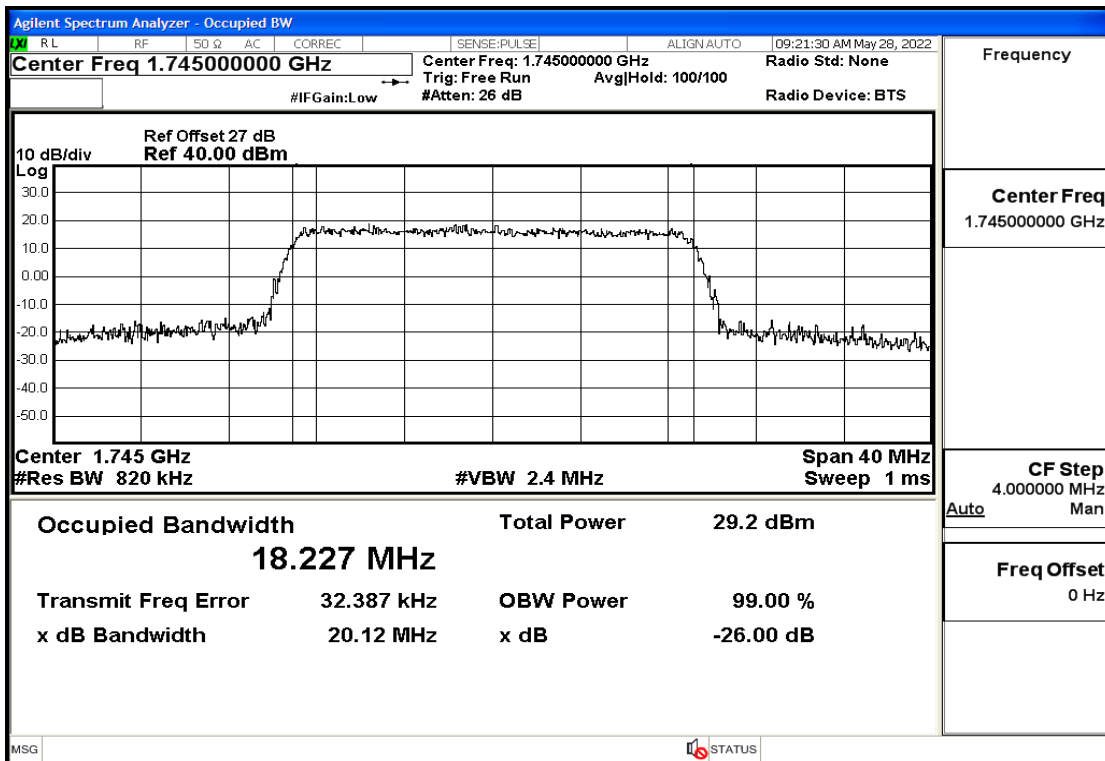




Band4-20-1745-QPSK-100#LOW@26dB and 99PCT Bandwidth



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	0.0659	PASS
40	Normal Voltage	0.0344	
30	Normal Voltage	0.0185	
20(Ref.)	Normal Voltage	0.0267	
10	Normal Voltage	0.0564	
0	Normal Voltage	0.0163	
-10	Normal Voltage	0.0463	
-20	Normal Voltage	0.0374	
-30	Normal Voltage	0.0163	
20	Maximum Voltage	0.0185	
20	Normal Voltage	0.0291	
20	Battery End Point	0.0679	

## 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	20.83	26.54	5.71	13	1.1	21.93	30	Pass
Band4	1.4	1710.7	QPSK	3	LOW	21.8	26.86	5.06	13	1.1	22.9	30	Pass
Band4	1.4	1710.7	QPSK	3	MID	21.79	26.86	5.07	13	1.1	22.89	30	Pass
Band4	1.4	1710.7	QPSK	3	HIGH	21.81	26.91	5.1	13	1.1	22.91	30	Pass
Band4	1.4	1710.7	QPSK	1	LOW	21.82	26.66	4.84	13	1.1	22.92	30	Pass
Band4	1.4	1710.7	QPSK	1	MID	21.92	26.75	4.83	13	1.1	23.02	30	Pass
Band4	1.4	1710.7	QPSK	1	HIGH	21.96	26.88	4.92	13	1.1	23.06	30	Pass
Band4	1.4	1710.7	16QAM	6	LOW	20.75	27.09	6.34	13	1.1	21.85	30	Pass
Band4	1.4	1710.7	16QAM	3	LOW	20.94	27.03	6.09	13	1.1	22.04	30	Pass
Band4	1.4	1710.7	16QAM	3	MID	21.02	27.04	6.02	13	1.1	22.12	30	Pass
Band4	1.4	1710.7	16QAM	3	HIGH	20.98	27.22	6.24	13	1.1	22.08	30	Pass
Band4	1.4	1710.7	16QAM	1	LOW	21.78	26.57	4.79	13	1.1	22.88	30	Pass
Band4	1.4	1710.7	16QAM	1	MID	21.75	26.33	4.58	13	1.1	22.85	30	Pass
Band4	1.4	1710.7	16QAM	1	HIGH	21.8	26.43	4.63	13	1.1	22.9	30	Pass
Band4	1.4	1732.5	QPSK	6	LOW	20.57	26.56	5.99	13	1.1	21.67	30	Pass
Band4	1.4	1732.5	QPSK	3	LOW	21.77	27.29	5.52	13	1.1	22.87	30	Pass
Band4	1.4	1732.5	QPSK	3	MID	21.87	27.36	5.49	13	1.1	22.97	30	Pass
Band4	1.4	1732.5	QPSK	3	HIGH	21.8	27.3	5.5	13	1.1	22.9	30	Pass
Band4	1.4	1732.5	QPSK	1	LOW	21.7	26.75	5.05	13	1.1	22.8	30	Pass
Band4	1.4	1732.5	QPSK	1	MID	21.61	26.66	5.05	13	1.1	22.71	30	Pass
Band4	1.4	1732.5	QPSK	1	HIGH	21.65	26.69	5.04	13	1.1	22.75	30	Pass
Band4	1.4	1732.5	16QAM	6	LOW	20.54	26.81	6.27	13	1.1	21.64	30	Pass
Band4	1.4	1732.5	16QAM	3	LOW	20.8	27.17	6.37	13	1.1	21.9	30	Pass
Band4	1.4	1732.5	16QAM	3	MID	20.79	27.16	6.37	13	1.1	21.89	30	Pass
Band4	1.4	1732.5	16QAM	3	HIGH	20.76	27.11	6.35	13	1.1	21.86	30	Pass
Band4	1.4	1732.5	16QAM	1	LOW	20.63	25.89	5.26	13	1.1	21.73	30	Pass
Band4	1.4	1732.5	16QAM	1	MID	20.69	25.95	5.26	13	1.1	21.79	30	Pass
Band4	1.4	1732.5	16QAM	1	HIGH	20.65	25.9	5.25	13	1.1	21.75	30	Pass
Band4	1.4	1754.3	QPSK	6	LOW	20.29	26.72	6.43	13	1.1	21.39	30	Pass
Band4	1.4	1754.3	QPSK	3	LOW	21.32	27.21	5.89	13	1.1	22.42	30	Pass
Band4	1.4	1754.3	QPSK	3	MID	21.41	27.27	5.86	13	1.1	22.51	30	Pass
Band4	1.4	1754.3	QPSK	3	HIGH	21.35	27.11	5.76	13	1.1	22.45	30	Pass
Band4	1.4	1754.3	QPSK	1	LOW	21.6	27	5.4	13	1.1	22.7	30	Pass
Band4	1.4	1754.3	QPSK	1	MID	21.56	26.93	5.37	13	1.1	22.66	30	Pass
Band4	1.4	1754.3	QPSK	1	HIGH	21.61	26.97	5.36	13	1.1	22.71	30	Pass
Band4	1.4	1754.3	16QAM	6	LOW	20.25	26.82	6.57	13	1.1	21.35	30	Pass
Band4	1.4	1754.3	16QAM	3	LOW	20.77	26.73	5.96	13	1.1	21.87	30	Pass
Band4	1.4	1754.3	16QAM	3	MID	20.76	26.67	5.91	13	1.1	21.86	30	Pass
Band4	1.4	1754.3	16QAM	3	HIGH	20.72	26.74	6.02	13	1.1	21.82	30	Pass
Band4	1.4	1754.3	16QAM	1	LOW	21.56	26.96	5.4	13	1.1	22.66	30	Pass
Band4	1.4	1754.3	16QAM	1	MID	21.59	26.9	5.31	13	1.1	22.69	30	Pass
Band4	1.4	1754.3	16QAM	1	HIGH	21.75	26.98	5.23	13	1.1	22.85	30	Pass
Band4	3	1711.5	QPSK	15	LOW	20.82	27.18	6.36	13	1.1	21.92	30	Pass
Band4	3	1711.5	QPSK	8	LOW	20.73	26.44	5.71	13	1.1	21.83	30	Pass
Band4	3	1711.5	QPSK	8	MID	20.94	26.66	5.72	13	1.1	22.04	30	Pass

Band4	3	1711.5	QPSK	8	HIGH	20.72	26.58	5.86	13	1.1	21.82	30	Pass
Band4	3	1711.5	QPSK	1	LOW	21.87	26.43	4.56	13	1.1	22.97	30	Pass
Band4	3	1711.5	QPSK	1	MID	21.99	26.63	4.64	13	1.1	23.09	30	Pass
Band4	3	1711.5	QPSK	1	HIGH	21.94	26.63	4.69	13	1.1	23.04	30	Pass
Band4	3	1711.5	16QAM	15	LOW	20.48	27.03	6.55	13	1.1	21.58	30	Pass
Band4	3	1711.5	16QAM	8	LOW	20.42	26.79	6.37	13	1.1	21.52	30	Pass
Band4	3	1711.5	16QAM	8	MID	20.42	27.05	6.63	13	1.1	21.52	30	Pass
Band4	3	1711.5	16QAM	8	HIGH	20.3	26.92	6.62	13	1.1	21.4	30	Pass
Band4	3	1711.5	16QAM	1	LOW	21.6	27.12	5.52	13	1.1	22.7	30	Pass
Band4	3	1711.5	16QAM	1	MID	21.49	27.12	5.63	13	1.1	22.59	30	Pass
Band4	3	1711.5	16QAM	1	HIGH	21.39	27.15	5.76	13	1.1	22.49	30	Pass
Band4	3	1732.5	QPSK	15	LOW	20.6	26.34	5.74	13	1.1	21.7	30	Pass
Band4	3	1732.5	QPSK	8	LOW	20.67	26.69	6.02	13	1.1	21.77	30	Pass
Band4	3	1732.5	QPSK	8	MID	20.67	26.94	6.27	13	1.1	21.77	30	Pass
Band4	3	1732.5	QPSK	8	HIGH	20.66	26.85	6.19	13	1.1	21.76	30	Pass
Band4	3	1732.5	QPSK	1	LOW	21.8	26.96	5.16	13	1.1	22.9	30	Pass
Band4	3	1732.5	QPSK	1	MID	21.8	26.84	5.04	13	1.1	22.9	30	Pass
Band4	3	1732.5	QPSK	1	HIGH	21.73	26.74	5.01	13	1.1	22.83	30	Pass
Band4	3	1732.5	16QAM	15	LOW	20.43	27.3	6.87	13	1.1	21.53	30	Pass
Band4	3	1732.5	16QAM	8	LOW	19.84	26.3	6.46	13	1.1	20.94	30	Pass
Band4	3	1732.5	16QAM	8	MID	19.85	26.55	6.7	13	1.1	20.95	30	Pass
Band4	3	1732.5	16QAM	8	HIGH	19.75	26.4	6.65	13	1.1	20.85	30	Pass
Band4	3	1732.5	16QAM	1	LOW	21.49	26.9	5.41	13	1.1	22.59	30	Pass
Band4	3	1732.5	16QAM	1	MID	21.51	26.82	5.31	13	1.1	22.61	30	Pass
Band4	3	1732.5	16QAM	1	HIGH	21.55	26.26	4.71	13	1.1	22.65	30	Pass
Band4	3	1753.5	QPSK	15	LOW	20.35	27.25	6.9	13	1.1	21.45	30	Pass
Band4	3	1753.5	QPSK	8	LOW	20.42	26.83	6.41	13	1.1	21.52	30	Pass
Band4	3	1753.5	QPSK	8	MID	20.41	26.8	6.39	13	1.1	21.51	30	Pass
Band4	3	1753.5	QPSK	8	HIGH	20.46	26.81	6.35	13	1.1	21.56	30	Pass
Band4	3	1753.5	QPSK	1	LOW	21.46	26.59	5.13	13	1.1	22.56	30	Pass
Band4	3	1753.5	QPSK	1	MID	21.54	26.58	5.04	13	1.1	22.64	30	Pass
Band4	3	1753.5	QPSK	1	HIGH	21.46	26.53	5.07	13	1.1	22.56	30	Pass
Band4	3	1753.5	16QAM	15	LOW	20.17	26.71	6.54	13	1.1	21.27	30	Pass
Band4	3	1753.5	16QAM	8	LOW	19.73	26.13	6.4	13	1.1	20.83	30	Pass
Band4	3	1753.5	16QAM	8	MID	19.74	26.49	6.75	13	1.1	20.84	30	Pass
Band4	3	1753.5	16QAM	8	HIGH	19.81	26.34	6.53	13	1.1	20.91	30	Pass
Band4	3	1753.5	16QAM	1	LOW	20.79	26.03	5.24	13	1.1	21.89	30	Pass
Band4	3	1753.5	16QAM	1	MID	20.77	25.92	5.15	13	1.1	21.87	30	Pass
Band4	3	1753.5	16QAM	1	HIGH	20.75	25.9	5.15	13	1.1	21.85	30	Pass
Band4	5	1712.5	QPSK	25	LOW	20.87	27.16	6.29	13	1.1	21.97	30	Pass
Band4	5	1712.5	QPSK	12	LOW	20.92	26.76	5.84	13	1.1	22.02	30	Pass
Band4	5	1712.5	QPSK	12	MID	20.92	26.59	5.67	13	1.1	22.02	30	Pass
Band4	5	1712.5	QPSK	12	HIGH	20.83	26.59	5.76	13	1.1	21.93	30	Pass
Band4	5	1712.5	QPSK	1	LOW	21.89	27.11	5.22	13	1.1	22.99	30	Pass
Band4	5	1712.5	QPSK	1	MID	21.86	27.34	5.48	13	1.1	22.96	30	Pass
Band4	5	1712.5	QPSK	1	HIGH	21.85	27.5	5.65	13	1.1	22.95	30	Pass
Band4	5	1712.5	16QAM	25	LOW	20.54	27.32	6.78	13	1.1	21.64	30	Pass
Band4	5	1712.5	16QAM	12	LOW	20.08	27.09	7.01	13	1.1	21.18	30	Pass
Band4	5	1712.5	16QAM	12	MID	20.07	26.97	6.9	13	1.1	21.17	30	Pass
Band4	5	1712.5	16QAM	12	HIGH	19.98	27.05	7.07	13	1.1	21.08	30	Pass

Band4	5	1712.5	16QAM	1	LOW	20.38	26.08	5.7	13	1.1	21.48	30	Pass
Band4	5	1712.5	16QAM	1	MID	20.34	26.15	5.81	13	1.1	21.44	30	Pass
Band4	5	1712.5	16QAM	1	HIGH	20.14	26.1	5.96	13	1.1	21.24	30	Pass
Band4	5	1732.5	QPSK	25	LOW	20.6	27.23	6.63	13	1.1	21.7	30	Pass
Band4	5	1732.5	QPSK	12	LOW	20.7	27.23	6.53	13	1.1	21.8	30	Pass
Band4	5	1732.5	QPSK	12	MID	20.69	27.01	6.32	13	1.1	21.79	30	Pass
Band4	5	1732.5	QPSK	12	HIGH	20.72	27.16	6.44	13	1.1	21.82	30	Pass
Band4	5	1732.5	QPSK	1	LOW	21.73	26.88	5.15	13	1.1	22.83	30	Pass
Band4	5	1732.5	QPSK	1	MID	21.81	26.77	4.96	13	1.1	22.91	30	Pass
Band4	5	1732.5	QPSK	1	HIGH	21.89	26.7	4.81	13	1.1	22.99	30	Pass
Band4	5	1732.5	16QAM	25	LOW	20.4	27.9	7.5	13	1.1	21.5	30	Pass
Band4	5	1732.5	16QAM	12	LOW	19.72	26.48	6.76	13	1.1	20.82	30	Pass
Band4	5	1732.5	16QAM	12	MID	19.73	26.67	6.94	13	1.1	20.83	30	Pass
Band4	5	1732.5	16QAM	12	HIGH	19.71	26.49	6.78	13	1.1	20.81	30	Pass
Band4	5	1732.5	16QAM	1	LOW	20.94	26.68	5.74	13	1.1	22.04	30	Pass
Band4	5	1732.5	16QAM	1	MID	20.9	26.52	5.62	13	1.1	22	30	Pass
Band4	5	1732.5	16QAM	1	HIGH	20.92	26.44	5.52	13	1.1	22.02	30	Pass
Band4	5	1752.5	QPSK	25	LOW	20.35	26.76	6.41	13	1.1	21.45	30	Pass
Band4	5	1752.5	QPSK	12	LOW	20.48	26.52	6.04	13	1.1	21.58	30	Pass
Band4	5	1752.5	QPSK	12	MID	20.49	26.53	6.04	13	1.1	21.59	30	Pass
Band4	5	1752.5	QPSK	12	HIGH	20.38	26.41	6.03	13	1.1	21.48	30	Pass
Band4	5	1752.5	QPSK	1	LOW	21.23	26.73	5.5	13	1.1	22.33	30	Pass
Band4	5	1752.5	QPSK	1	MID	21.11	26.65	5.54	13	1.1	22.21	30	Pass
Band4	5	1752.5	QPSK	1	HIGH	21.12	26.56	5.44	13	1.1	22.22	30	Pass
Band4	5	1752.5	16QAM	25	LOW	20.27	27.61	7.34	13	1.1	21.37	30	Pass
Band4	5	1752.5	16QAM	12	LOW	19.48	26.4	6.92	13	1.1	20.58	30	Pass
Band4	5	1752.5	16QAM	12	MID	19.52	26.48	6.96	13	1.1	20.62	30	Pass
Band4	5	1752.5	16QAM	12	HIGH	19.53	26.56	7.03	13	1.1	20.63	30	Pass
Band4	5	1752.5	16QAM	1	LOW	20.55	26.84	6.29	13	1.1	21.65	30	Pass
Band4	5	1752.5	16QAM	1	MID	20.6	26.8	6.2	13	1.1	21.7	30	Pass
Band4	5	1752.5	16QAM	1	HIGH	20.58	26.76	6.18	13	1.1	21.68	30	Pass
Band4	10	1715	QPSK	50	LOW	20.88	27.14	6.26	13	1.1	21.98	30	Pass
Band4	10	1715	QPSK	25	LOW	20.79	26.97	6.18	13	1.1	21.89	30	Pass
Band4	10	1715	QPSK	25	MID	20.8	26.98	6.18	13	1.1	21.9	30	Pass
Band4	10	1715	QPSK	25	HIGH	20.7	27.26	6.56	13	1.1	21.8	30	Pass
Band4	10	1715	QPSK	1	LOW	21.74	26.43	4.69	13	1.1	22.84	30	Pass
Band4	10	1715	QPSK	1	MID	21.76	26.7	4.94	13	1.1	22.86	30	Pass
Band4	10	1715	QPSK	1	HIGH	21.69	26.85	5.16	13	1.1	22.79	30	Pass
Band4	10	1715	16QAM	50	LOW	21.16	25.96	4.8	13	1.1	22.26	30	Pass
Band4	10	1715	16QAM	25	LOW	19.81	26.91	7.1	13	1.1	20.91	30	Pass
Band4	10	1715	16QAM	25	MID	19.89	27.06	7.17	13	1.1	20.99	30	Pass
Band4	10	1715	16QAM	25	HIGH	19.87	27.3	7.43	13	1.1	20.97	30	Pass
Band4	10	1715	16QAM	1	LOW	21.26	27	5.74	13	1.1	22.36	30	Pass
Band4	10	1715	16QAM	1	MID	21.22	27.26	6.04	13	1.1	22.32	30	Pass
Band4	10	1715	16QAM	1	HIGH	21.02	27.43	6.41	13	1.1	22.12	30	Pass
Band4	10	1732.5	QPSK	50	LOW	20.6	26.95	6.35	13	1.1	21.7	30	Pass
Band4	10	1732.5	QPSK	25	LOW	20.64	27.03	6.39	13	1.1	21.74	30	Pass
Band4	10	1732.5	QPSK	25	MID	20.65	26.85	6.2	13	1.1	21.75	30	Pass
Band4	10	1732.5	QPSK	25	HIGH	20.73	26.78	6.05	13	1.1	21.83	30	Pass
Band4	10	1732.5	QPSK	1	LOW	21.89	27.13	5.24	13	1.1	22.99	30	Pass

Band4	10	1732.5	QPSK	1	MID	21.86	26.79	4.93	13	1.1	22.96	30	Pass
Band4	10	1732.5	QPSK	1	HIGH	21.84	26.66	4.82	13	1.1	22.94	30	Pass
Band4	10	1732.5	16QAM	50	LOW	20.31	27.53	7.22	13	1.1	21.41	30	Pass
Band4	10	1732.5	16QAM	25	LOW	19.89	27.32	7.43	13	1.1	20.99	30	Pass
Band4	10	1732.5	16QAM	25	MID	19.8	27.35	7.55	13	1.1	20.9	30	Pass
Band4	10	1732.5	16QAM	25	HIGH	19.84	27.1	7.26	13	1.1	20.94	30	Pass
Band4	10	1732.5	16QAM	1	LOW	20.94	26.33	5.39	13	1.1	22.04	30	Pass
Band4	10	1732.5	16QAM	1	MID	20.89	25.82	4.93	13	1.1	21.99	30	Pass
Band4	10	1732.5	16QAM	1	HIGH	20.88	26.37	5.49	13	1.1	21.98	30	Pass
Band4	10	1750	QPSK	50	LOW	20.41	26.93	6.52	13	1.1	21.51	30	Pass
Band4	10	1750	QPSK	25	LOW	20.48	27.13	6.65	13	1.1	21.58	30	Pass
Band4	10	1750	QPSK	25	MID	20.56	27.12	6.56	13	1.1	21.66	30	Pass
Band4	10	1750	QPSK	25	HIGH	20.31	27.17	6.86	13	1.1	21.41	30	Pass
Band4	10	1750	QPSK	1	LOW	21.78	26.67	4.89	13	1.1	22.88	30	Pass
Band4	10	1750	QPSK	1	MID	21.71	26.74	5.03	13	1.1	22.81	30	Pass
Band4	10	1750	QPSK	1	HIGH	21.67	26.64	4.97	13	1.1	22.77	30	Pass
Band4	10	1750	16QAM	50	LOW	20.26	26.86	6.6	13	1.1	21.36	30	Pass
Band4	10	1750	16QAM	25	LOW	19.71	26.94	7.23	13	1.1	20.81	30	Pass
Band4	10	1750	16QAM	25	MID	19.73	27	7.27	13	1.1	20.83	30	Pass
Band4	10	1750	16QAM	25	HIGH	19.68	27.04	7.36	13	1.1	20.78	30	Pass
Band4	10	1750	16QAM	1	LOW	20.31	25.63	5.32	13	1.1	21.41	30	Pass
Band4	10	1750	16QAM	1	MID	20.34	25.75	5.41	13	1.1	21.44	30	Pass
Band4	10	1750	16QAM	1	HIGH	20.28	25.65	5.37	13	1.1	21.38	30	Pass
Band4	15	1717.5	QPSK	75	LOW	21.27	27.96	6.69	13	1.1	22.37	30	Pass
Band4	15	1717.5	QPSK	38	LOW	21.28	27.95	6.67	13	1.1	22.38	30	Pass
Band4	15	1717.5	QPSK	38	MID	21.28	27.95	6.67	13	1.1	22.38	30	Pass
Band4	15	1717.5	QPSK	38	HIGH	21.27	27.88	6.61	13	1.1	22.37	30	Pass
Band4	15	1717.5	QPSK	1	LOW	22.37	26.6	4.23	13	1.1	23.47	30	Pass
Band4	15	1717.5	QPSK	1	MID	22.35	26.98	4.63	13	1.1	23.45	30	Pass
Band4	15	1717.5	QPSK	1	HIGH	22.22	26.94	4.72	13	1.1	23.32	30	Pass
Band4	15	1717.5	16QAM	75	LOW	20.35	27.56	7.21	13	1.1	21.45	30	Pass
Band4	15	1717.5	16QAM	38	LOW	20.43	27.46	7.03	13	1.1	21.53	30	Pass
Band4	15	1717.5	16QAM	38	MID	20.44	27.61	7.17	13	1.1	21.54	30	Pass
Band4	15	1717.5	16QAM	38	HIGH	20.44	27.66	7.22	13	1.1	21.54	30	Pass
Band4	15	1717.5	16QAM	1	LOW	22.09	27.23	5.14	13	1.1	23.19	30	Pass
Band4	15	1717.5	16QAM	1	MID	22.09	27.52	5.43	13	1.1	23.19	30	Pass
Band4	15	1717.5	16QAM	1	HIGH	21.9	27.51	5.61	13	1.1	23	30	Pass
Band4	15	1732.5	QPSK	75	LOW	21.18	27.6	6.42	13	1.1	22.28	30	Pass
Band4	15	1732.5	QPSK	38	LOW	21.23	27.6	6.37	13	1.1	22.33	30	Pass
Band4	15	1732.5	QPSK	38	MID	21.23	27.65	6.42	13	1.1	22.33	30	Pass
Band4	15	1732.5	QPSK	38	HIGH	21.22	27.66	6.44	13	1.1	22.32	30	Pass
Band4	15	1732.5	QPSK	1	LOW	22.42	27.19	4.77	13	1.1	23.52	30	Pass
Band4	15	1732.5	QPSK	1	MID	22.5	26.71	4.21	13	1.1	23.6	30	Pass
Band4	15	1732.5	QPSK	1	HIGH	22.36	26.5	4.14	13	1.1	23.46	30	Pass
Band4	15	1732.5	16QAM	75	LOW	20.34	27.43	7.09	13	1.1	21.44	30	Pass
Band4	15	1732.5	16QAM	38	LOW	20.36	27.38	7.02	13	1.1	21.46	30	Pass
Band4	15	1732.5	16QAM	38	MID	20.37	27.38	7.01	13	1.1	21.47	30	Pass
Band4	15	1732.5	16QAM	38	HIGH	20.38	27.35	6.97	13	1.1	21.48	30	Pass
Band4	15	1732.5	16QAM	1	LOW	21.5	27.23	5.73	13	1.1	22.6	30	Pass
Band4	15	1732.5	16QAM	1	MID	21.44	25.9	4.46	13	1.1	22.54	30	Pass

Band4	15	1732.5	16QAM	1	HIGH	21.44	26.21	4.77	13	1.1	22.54	30	Pass
Band4	15	1747.5	QPSK	75	LOW	21.09	27.43	6.34	13	1.1	22.19	30	Pass
Band4	15	1747.5	QPSK	38	LOW	21.16	27.46	6.3	13	1.1	22.26	30	Pass
Band4	15	1747.5	QPSK	38	MID	21.17	27.43	6.26	13	1.1	22.27	30	Pass
Band4	15	1747.5	QPSK	38	HIGH	21.17	27.54	6.37	13	1.1	22.27	30	Pass
Band4	15	1747.5	QPSK	1	LOW	22.57	26.9	4.33	13	1.1	23.67	30	Pass
Band4	15	1747.5	QPSK	1	MID	22.33	26.6	4.27	13	1.1	23.43	30	Pass
Band4	15	1747.5	QPSK	1	HIGH	22.22	26.59	4.37	13	1.1	23.32	30	Pass
Band4	15	1747.5	16QAM	75	LOW	20.28	27.28	7	13	1.1	21.38	30	Pass
Band4	15	1747.5	16QAM	38	LOW	20.32	27.29	6.97	13	1.1	21.42	30	Pass
Band4	15	1747.5	16QAM	38	MID	20.3	27.18	6.88	13	1.1	21.4	30	Pass
Band4	15	1747.5	16QAM	38	HIGH	20.18	27.18	7	13	1.1	21.28	30	Pass
Band4	15	1747.5	16QAM	1	LOW	21.76	26.85	5.09	13	1.1	22.86	30	Pass
Band4	15	1747.5	16QAM	1	MID	21.67	26.19	4.52	13	1.1	22.77	30	Pass
Band4	15	1747.5	16QAM	1	HIGH	21.65	27.02	5.37	13	1.1	22.75	30	Pass
Band4	20	1720	QPSK	100	LOW	21.34	27.64	6.3	13	1.1	22.44	30	Pass
Band4	20	1720	QPSK	50	LOW	21.26	27.17	5.91	13	1.1	22.36	30	Pass
Band4	20	1720	QPSK	50	MID	21.27	27.16	5.89	13	1.1	22.37	30	Pass
Band4	20	1720	QPSK	50	HIGH	21.22	27.27	6.05	13	1.1	22.32	30	Pass
Band4	20	1720	QPSK	1	LOW	22.53	26.65	4.12	13	1.1	23.63	30	Pass
Band4	20	1720	QPSK	1	MID	22.48	27.14	4.66	13	1.1	23.58	30	Pass
Band4	20	1720	QPSK	1	HIGH	22.32	26.87	4.55	13	1.1	23.42	30	Pass
Band4	20	1720	16QAM	100	LOW	20.41	28.16	7.75	13	1.1	21.51	30	Pass
Band4	20	1720	16QAM	50	LOW	20.64	27.65	7.01	13	1.1	21.74	30	Pass
Band4	20	1720	16QAM	50	MID	20.53	27.65	7.12	13	1.1	21.63	30	Pass
Band4	20	1720	16QAM	50	HIGH	20.4	27.66	7.26	13	1.1	21.5	30	Pass
Band4	20	1720	16QAM	1	LOW	21.74	27.51	5.77	13	1.1	22.84	30	Pass
Band4	20	1720	16QAM	1	MID	21.68	27.03	5.35	13	1.1	22.78	30	Pass
Band4	20	1720	16QAM	1	HIGH	21.52	27.68	6.16	13	1.1	22.62	30	Pass
Band4	20	1732.5	QPSK	100	LOW	21.15	27.47	6.32	13	1.1	22.25	30	Pass
Band4	20	1732.5	QPSK	50	LOW	21.25	27.21	5.96	13	1.1	22.35	30	Pass
Band4	20	1732.5	QPSK	50	MID	21.24	27.19	5.95	13	1.1	22.34	30	Pass
Band4	20	1732.5	QPSK	50	HIGH	21.39	26.84	5.45	13	1.1	22.49	30	Pass
Band4	20	1732.5	QPSK	1	LOW	22.42	28.07	5.65	13	1.1	23.52	30	Pass
Band4	20	1732.5	QPSK	1	MID	22.32	26.53	4.21	13	1.1	23.42	30	Pass
Band4	20	1732.5	QPSK	1	HIGH	22.36	27.21	4.85	13	1.1	23.46	30	Pass
Band4	20	1732.5	16QAM	100	LOW	20.34	27.56	7.22	13	1.1	21.44	30	Pass
Band4	20	1732.5	16QAM	50	LOW	20.41	27.25	6.84	13	1.1	21.51	30	Pass
Band4	20	1732.5	16QAM	50	MID	20.4	27.23	6.83	13	1.1	21.5	30	Pass
Band4	20	1732.5	16QAM	50	HIGH	20.38	26.87	6.49	13	1.1	21.48	30	Pass
Band4	20	1732.5	16QAM	1	LOW	21.83	27.52	5.69	13	1.1	22.93	30	Pass
Band4	20	1732.5	16QAM	1	MID	21.81	26.95	5.14	13	1.1	22.91	30	Pass
Band4	20	1732.5	16QAM	1	HIGH	21.62	26.72	5.1	13	1.1	22.72	30	Pass
Band4	20	1745	QPSK	100	LOW	21.02	27.28	6.26	13	1.1	22.12	30	Pass
Band4	20	1745	QPSK	50	LOW	21.09	26.75	5.66	13	1.1	22.19	30	Pass
Band4	20	1745	QPSK	50	MID	21.09	26.73	5.64	13	1.1	22.19	30	Pass
Band4	20	1745	QPSK	50	HIGH	21.09	26.9	5.81	13	1.1	22.19	30	Pass
Band4	20	1745	QPSK	1	LOW	22.27	27.27	5	13	1.1	23.37	30	Pass
Band4	20	1745	QPSK	1	MID	22.19	26.63	4.44	13	1.1	23.29	30	Pass
Band4	20	1745	QPSK	1	HIGH	22.17	26.88	4.71	13	1.1	23.27	30	Pass

Band4	20	1745	16QAM	100	LOW	20.42	27.45	7.03	13	1.1	21.52	30	Pass
Band4	20	1745	16QAM	50	LOW	20.17	26.73	6.56	13	1.1	21.27	30	Pass
Band4	20	1745	16QAM	50	MID	20.19	26.71	6.52	13	1.1	21.29	30	Pass
Band4	20	1745	16QAM	50	HIGH	20.2	27.03	6.83	13	1.1	21.3	30	Pass
Band4	20	1745	16QAM	1	LOW	21.85	26.79	4.94	13	1.1	22.95	30	Pass
Band4	20	1745	16QAM	1	MID	21.78	26.56	4.78	13	1.1	22.88	30	Pass
Band4	20	1745	16QAM	1	HIGH	21.75	27.46	5.71	13	1.1	22.85	30	Pass