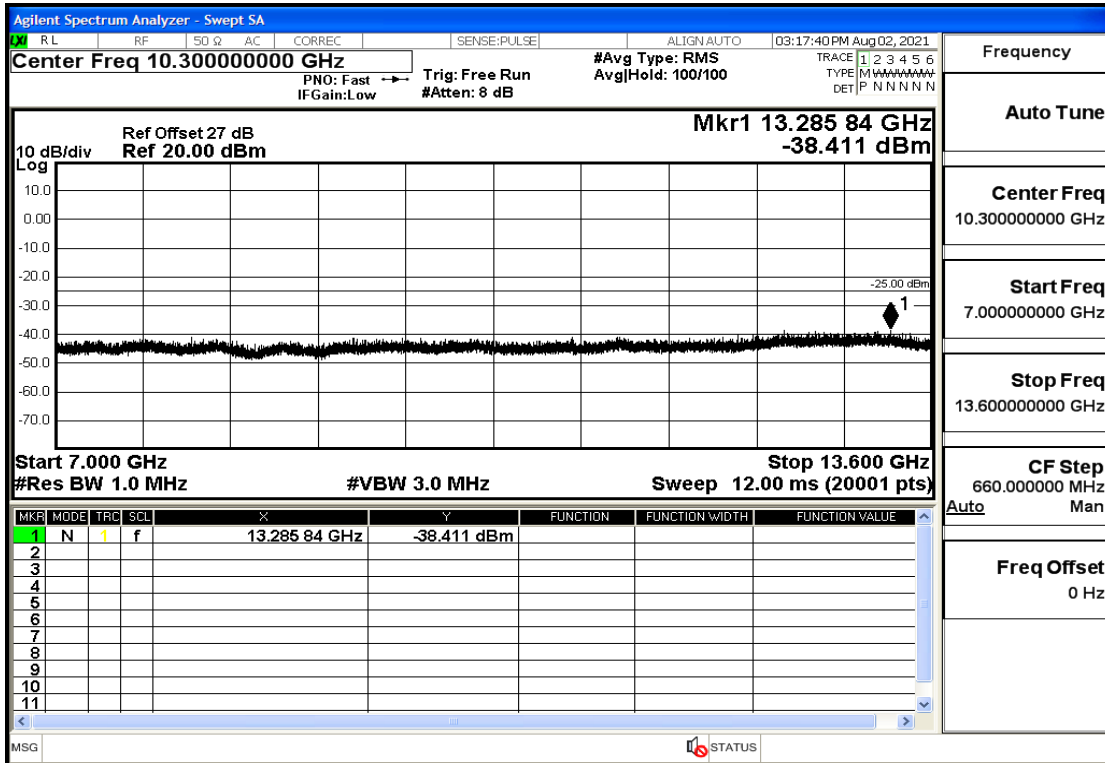
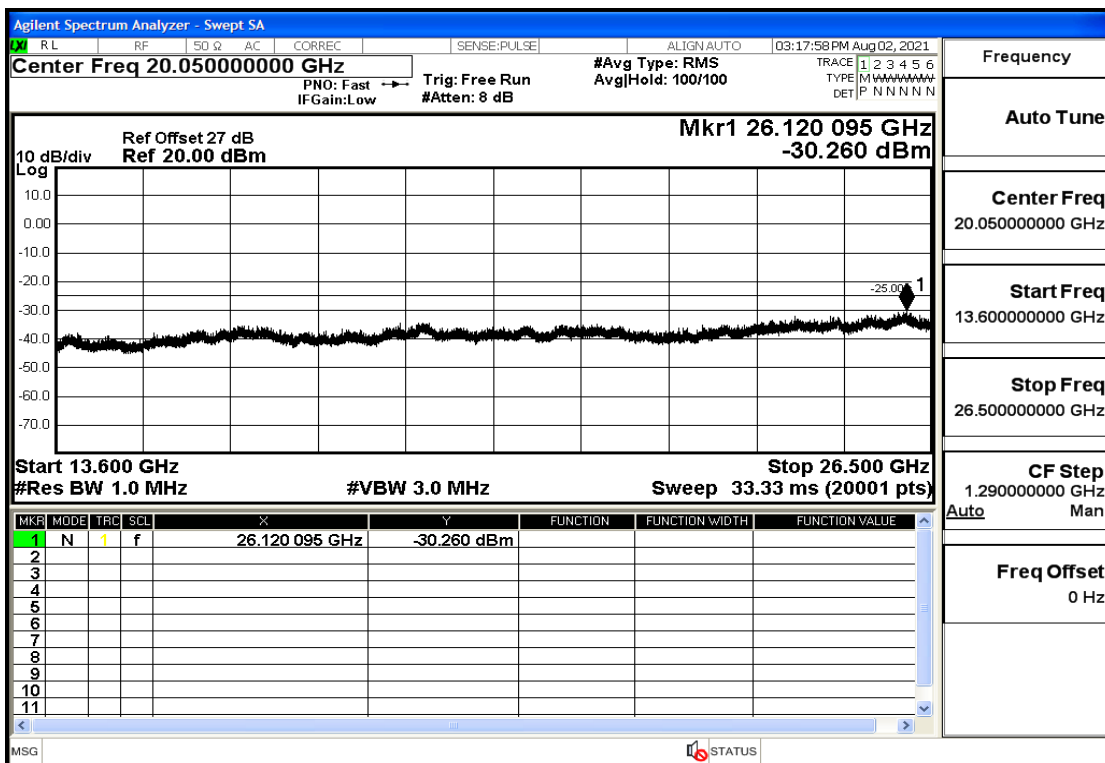


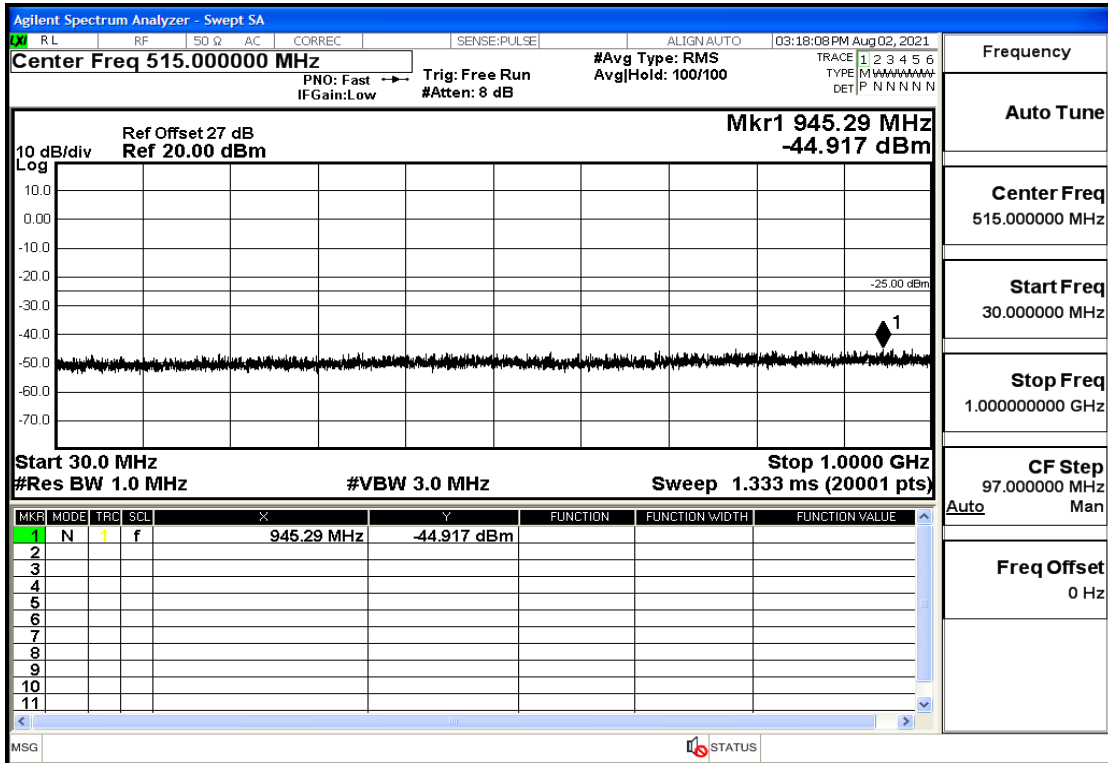
OB38-5-2595-Q16-12#HIGH@7GHz-13.6GHz@Pass



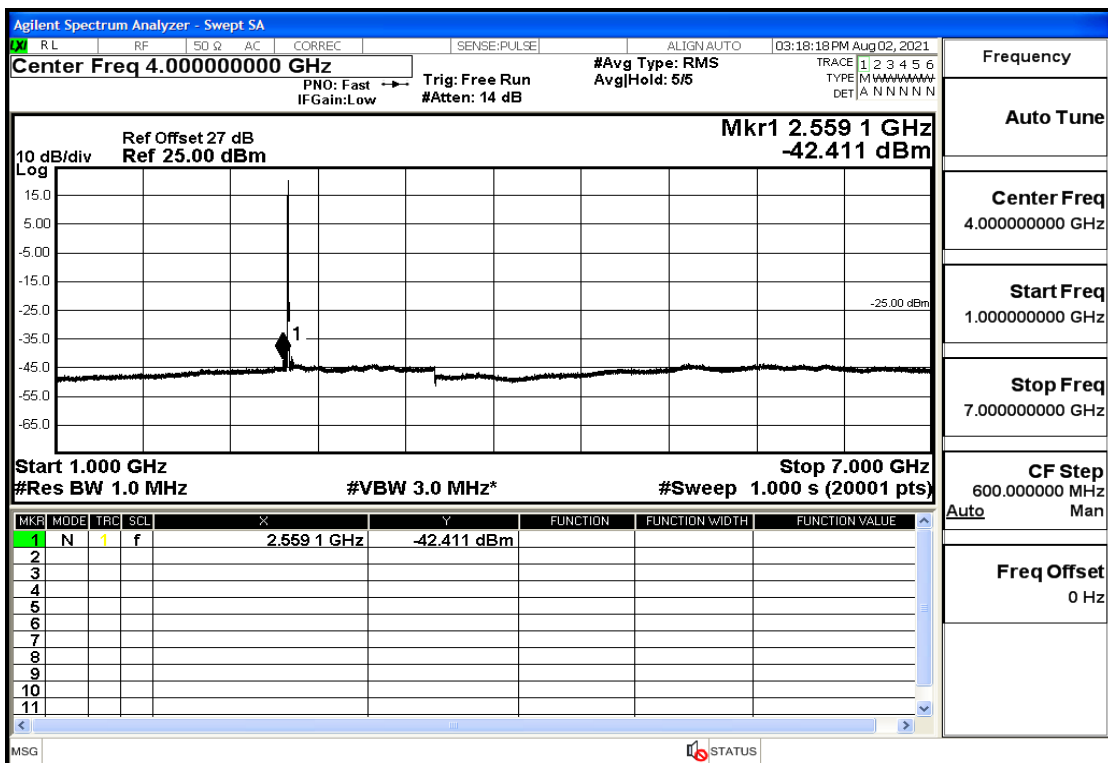
OB38-5-2595-Q16-12#HIGH@13.6GHz-26.5GHz@Pass



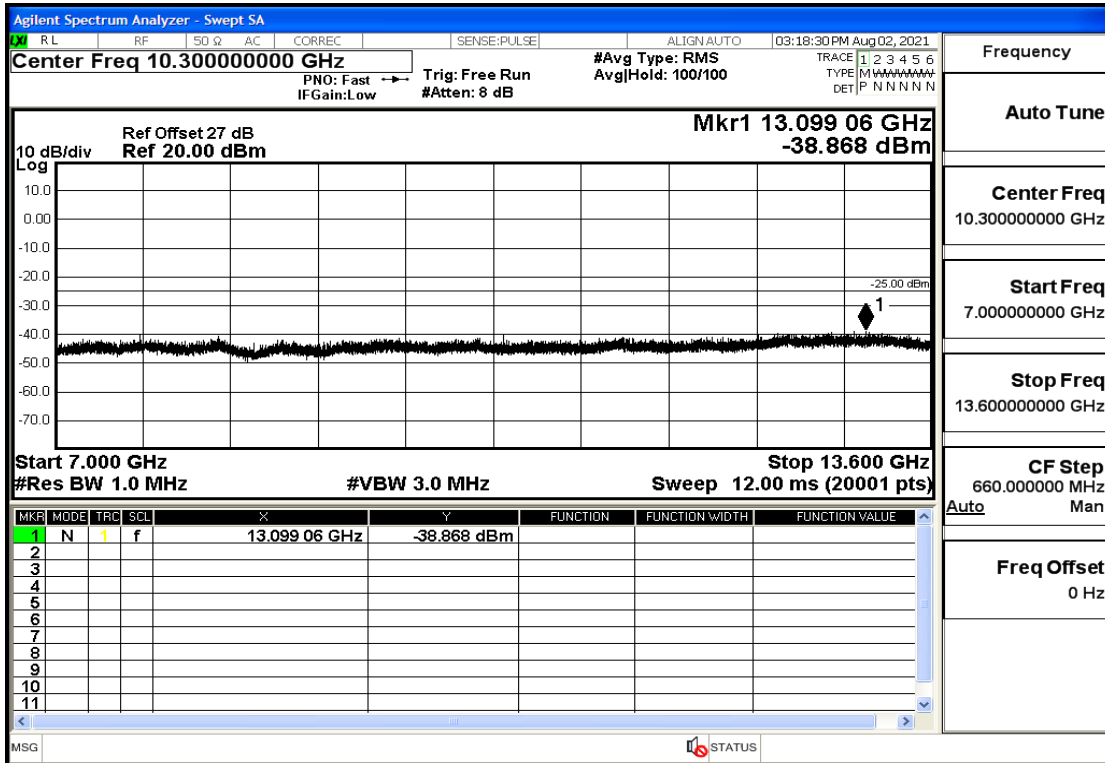
OB38-5-2595-Q16-1#LOW@30mHz-1GHz@Pass



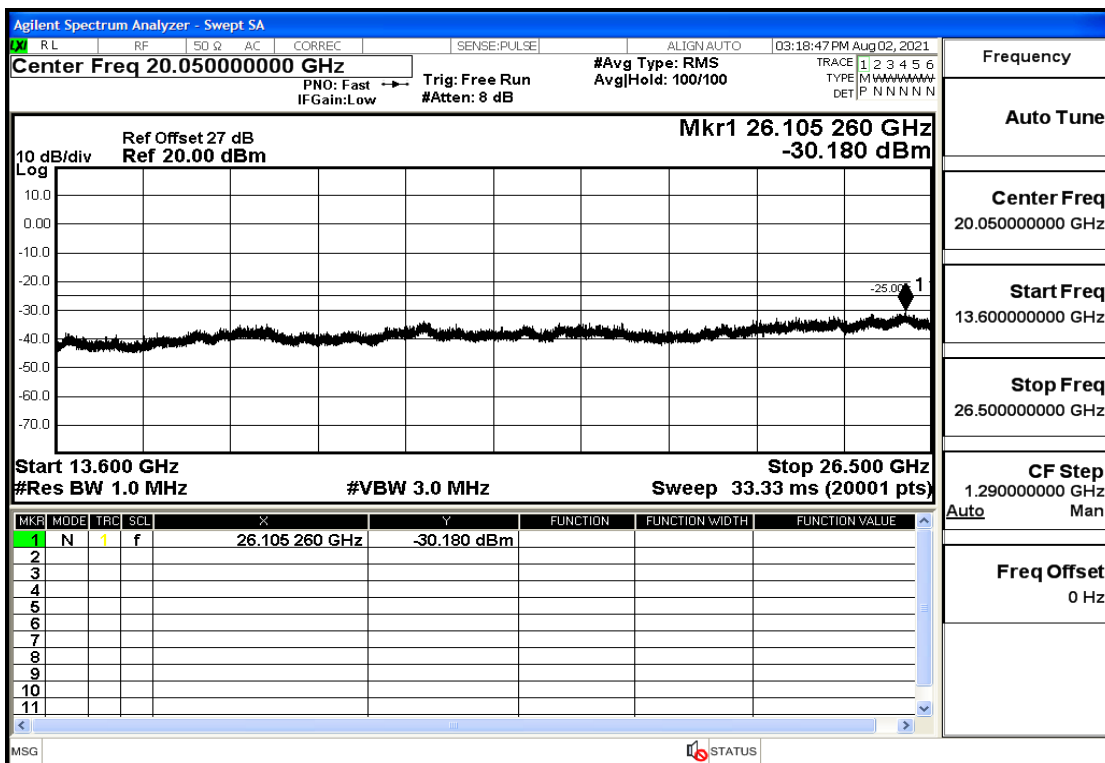
OB38-5-2595-Q16-1#LOW@1GHz-7GHz@Pass



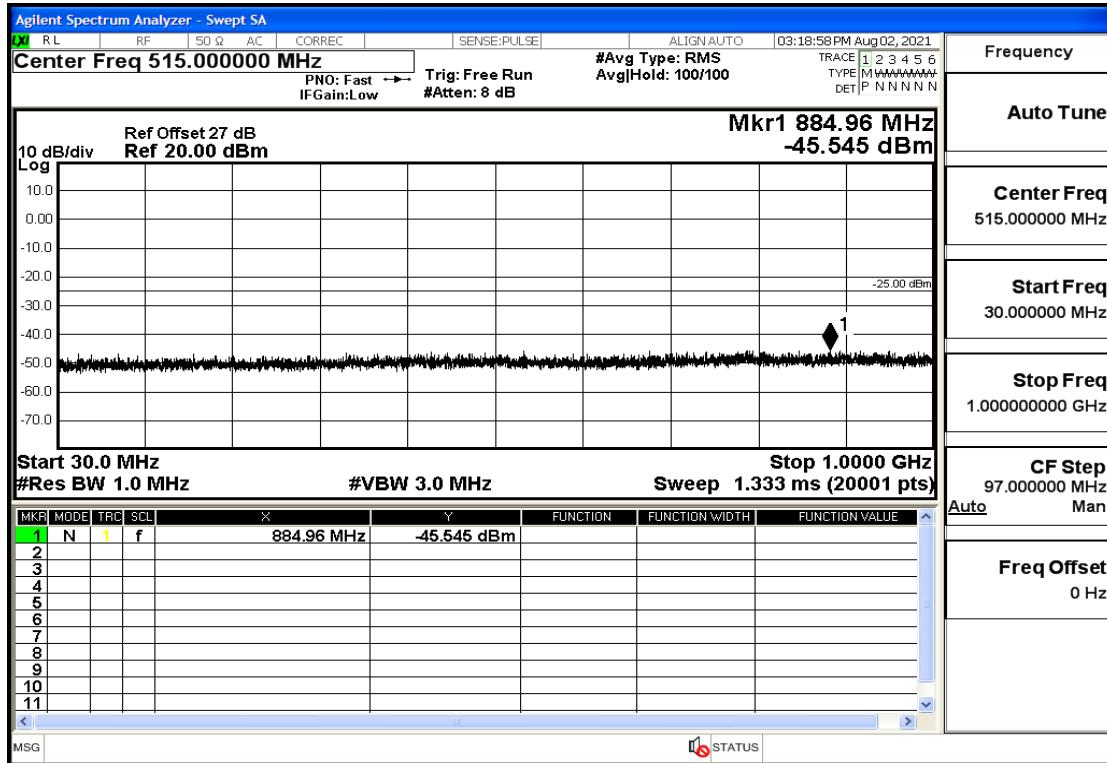
OB38-5-2595-Q16-1#LOW@7GHz-13.6GHz@Pass



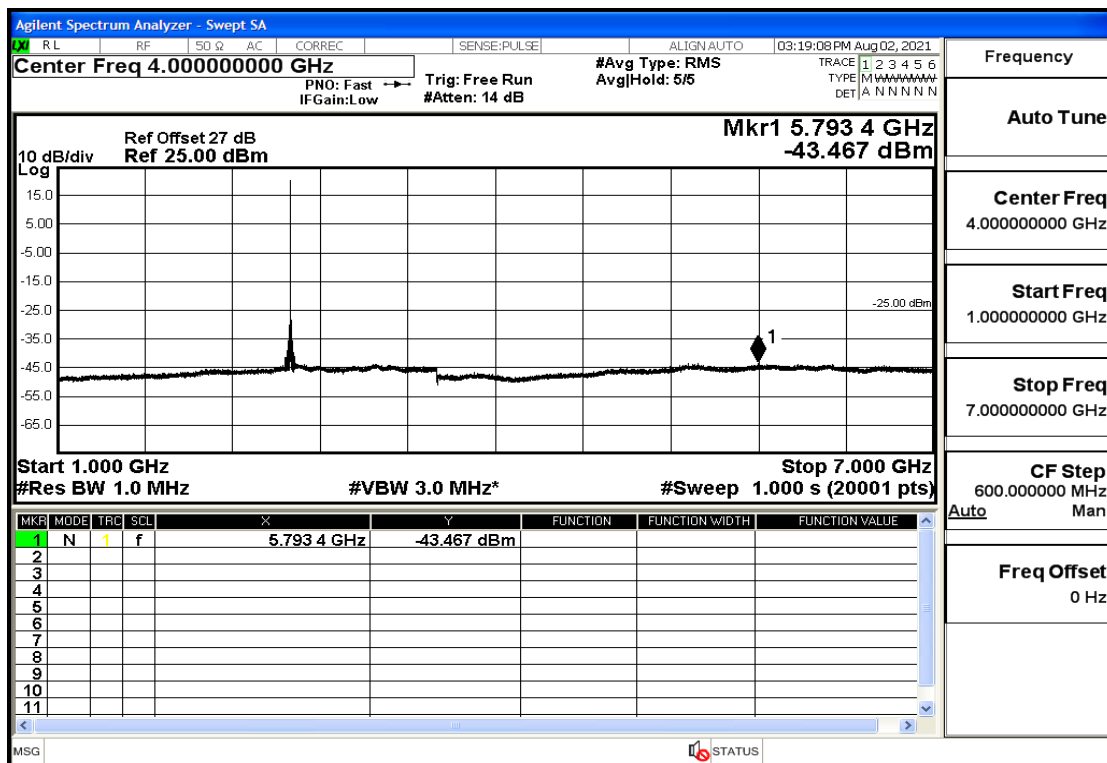
OB38-5-2595-Q16-1#LOW@13.6GHz-26.5GHz@Pass



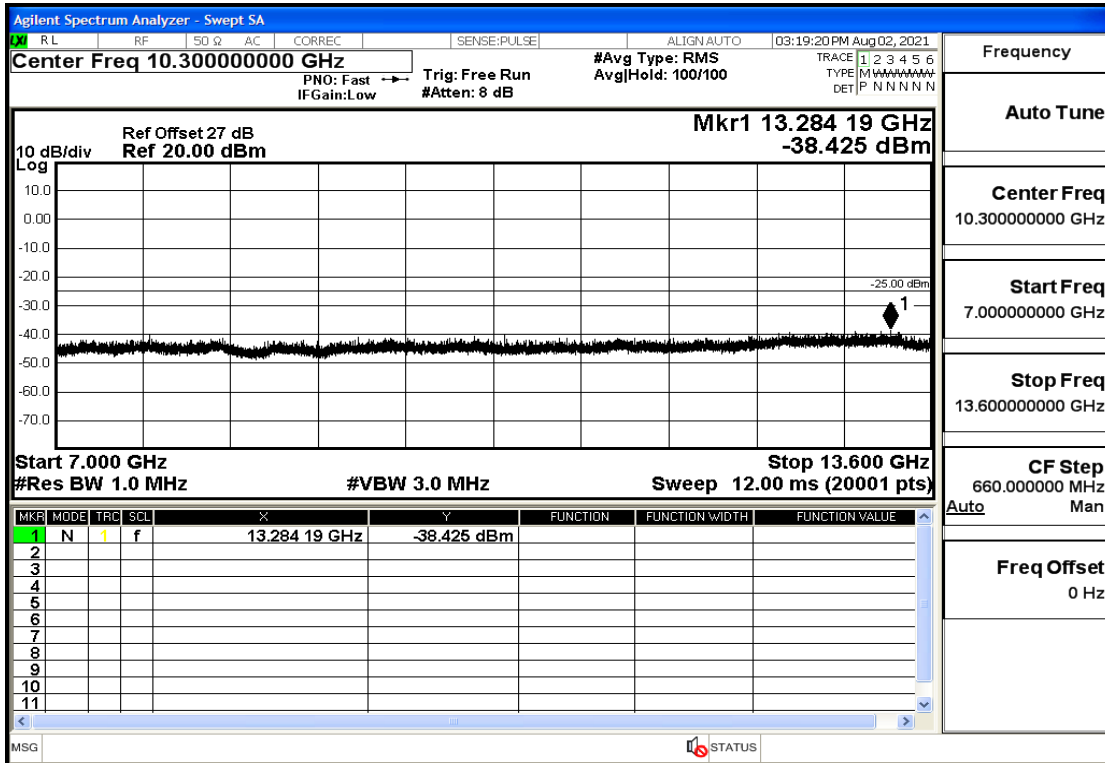
OB38-5-2595-Q16-1#MID@30mHz-1GHz@Pass



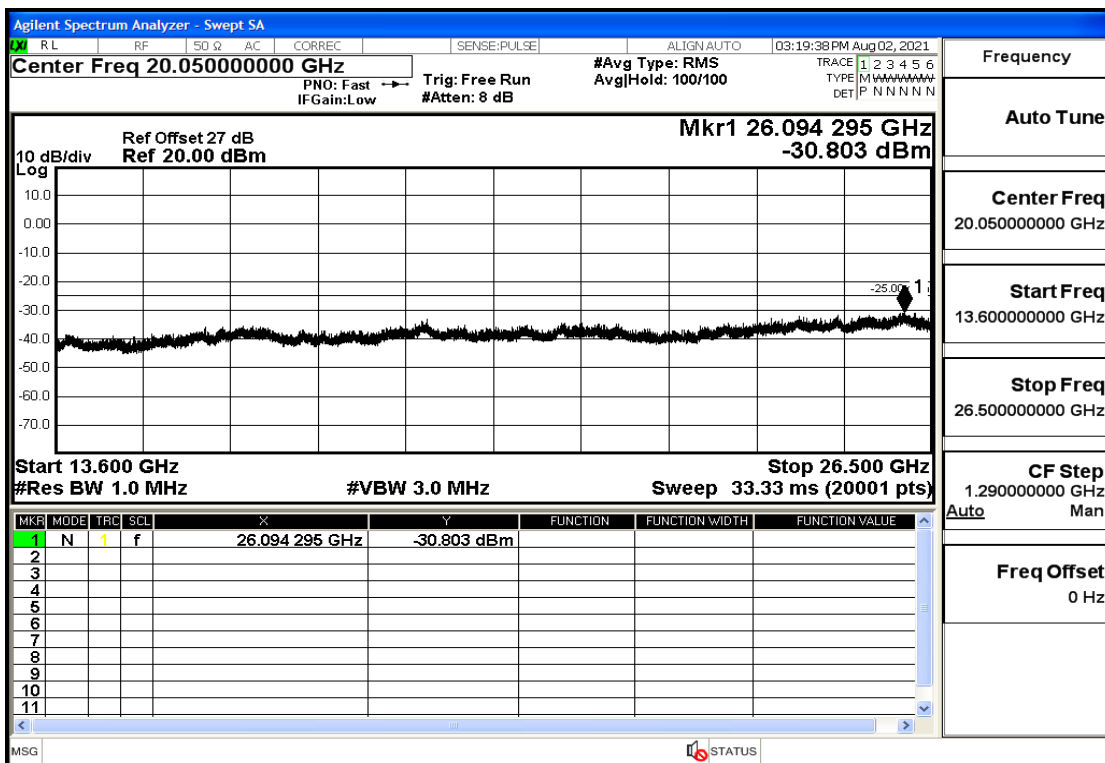
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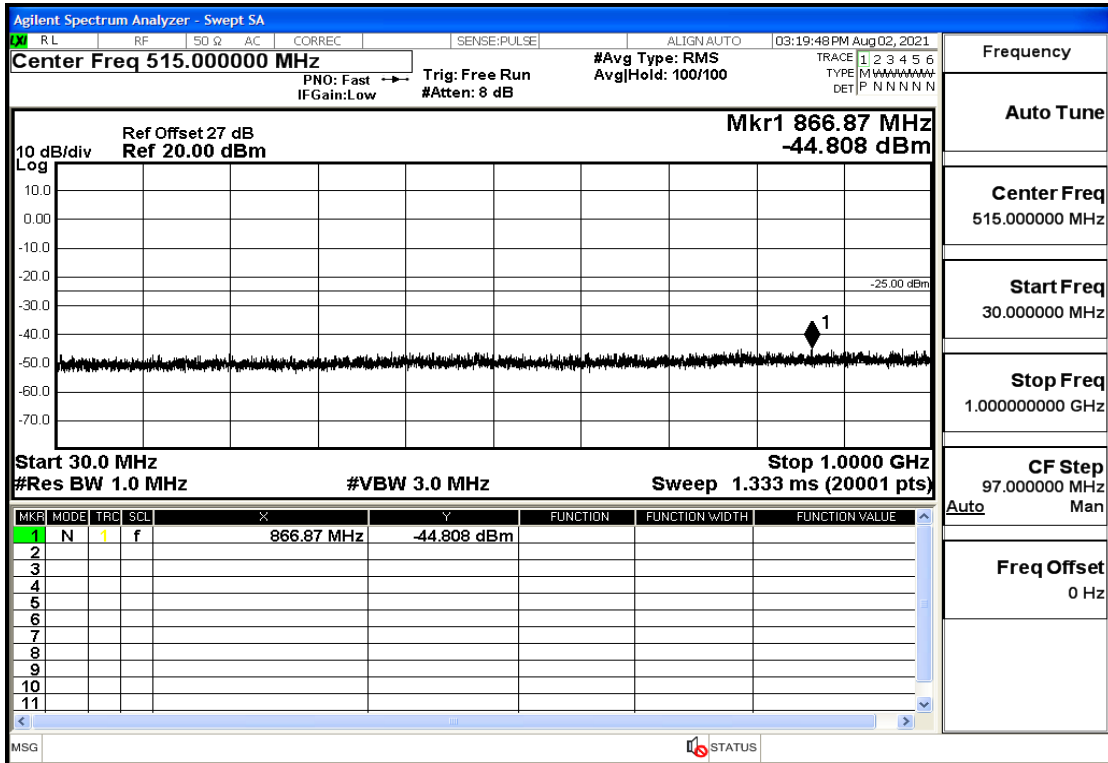
OB38-5-2595-Q16-1#MID@7GHz-13.6GHz@Pass



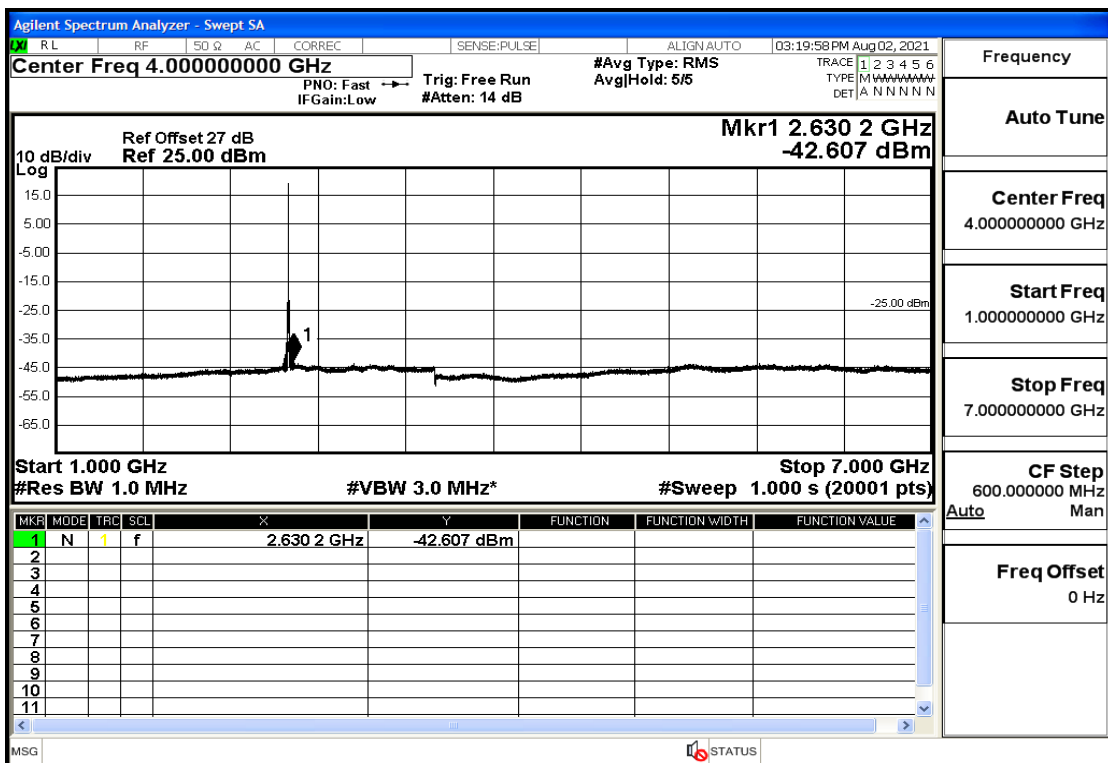
OB38-5-2595-Q16-1#MID@13.6GHz-26.5GHz@Pass



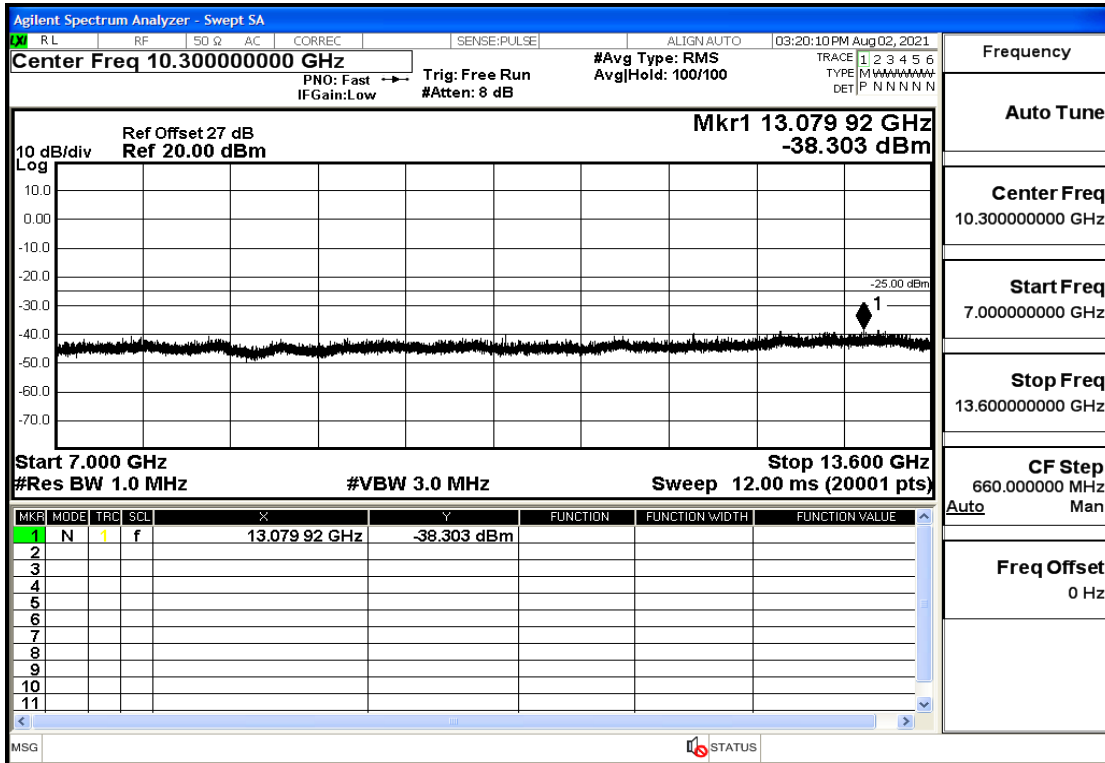
OB38-5-2595-Q16-1#HIGH@30mHz-1GHz@Pass



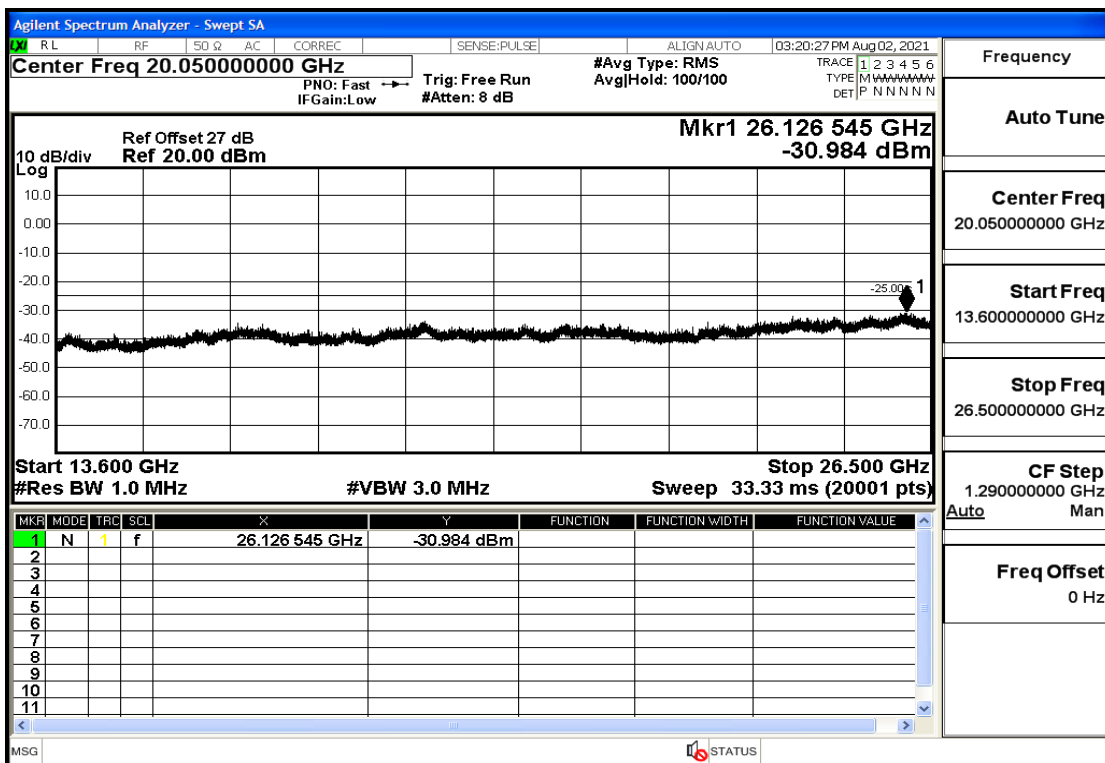
OB38-5-2595-Q16-1#HIGH@1GHz-7GHz@Pass



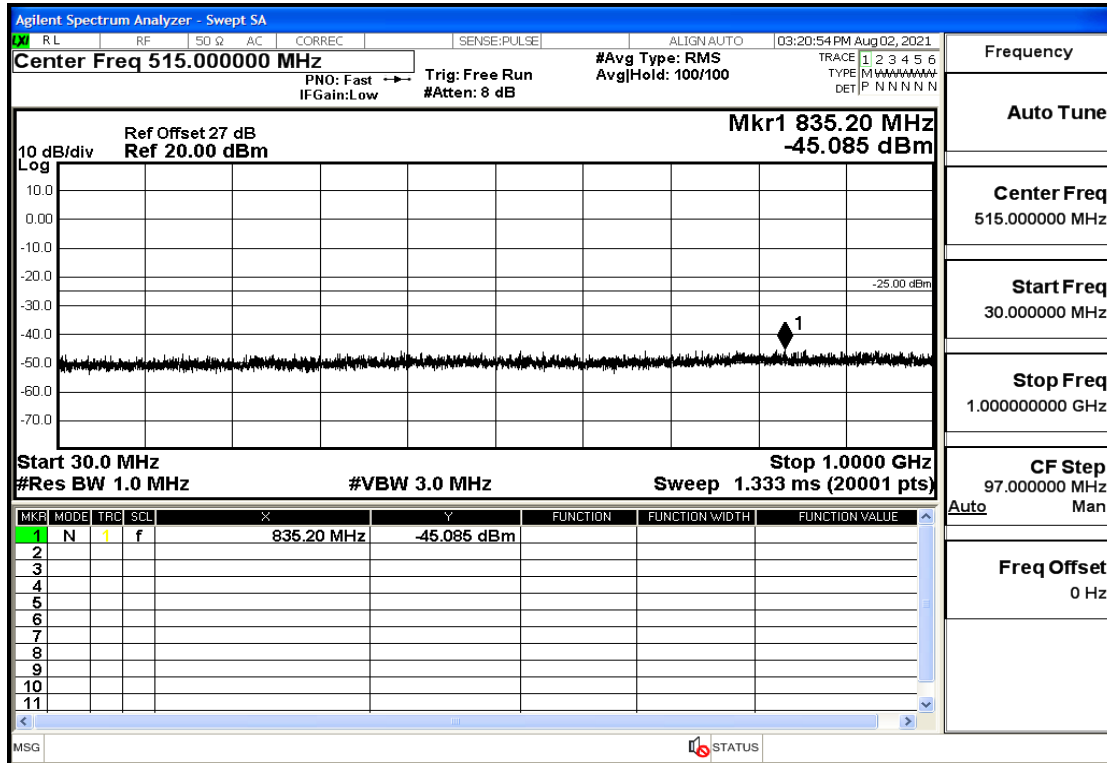
OB38-5-2595-Q16-1#HIGH@7GHz-13.6GHz@Pass



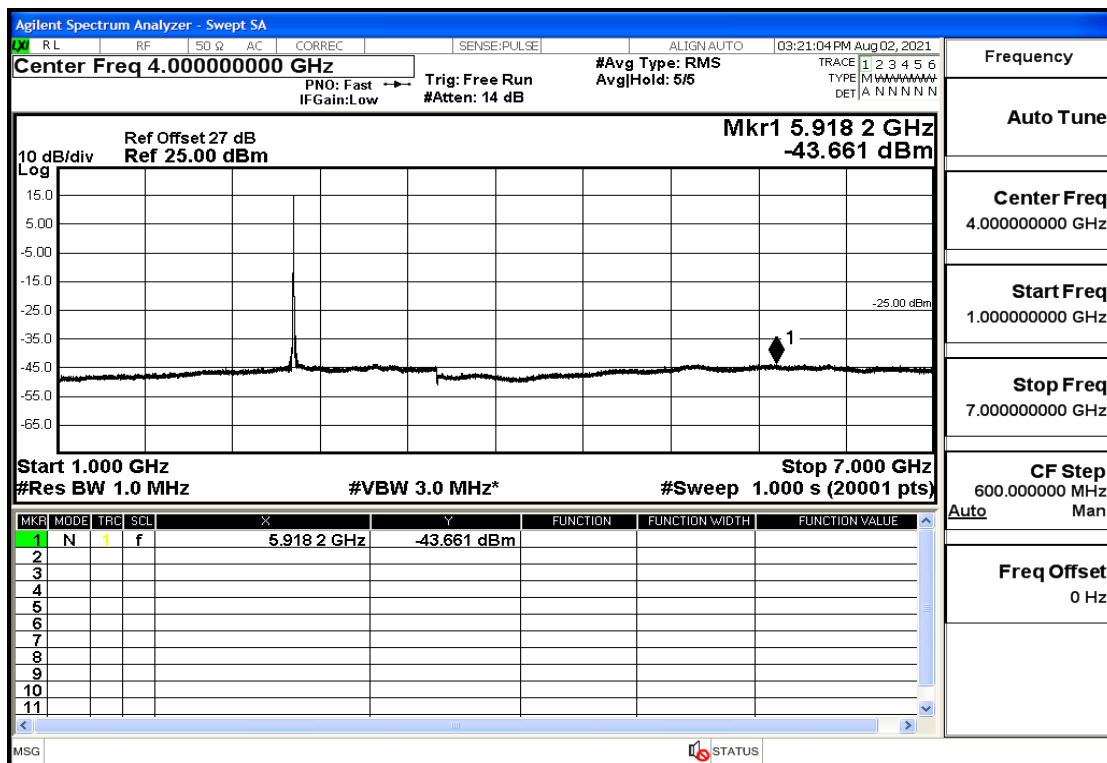
OB38-5-2595-Q16-1#HIGH@13.6GHz-26.5GHz@Pass



OB38-5-2617.5-QPSK-25#LOW@30mHz-1GHz@Pass

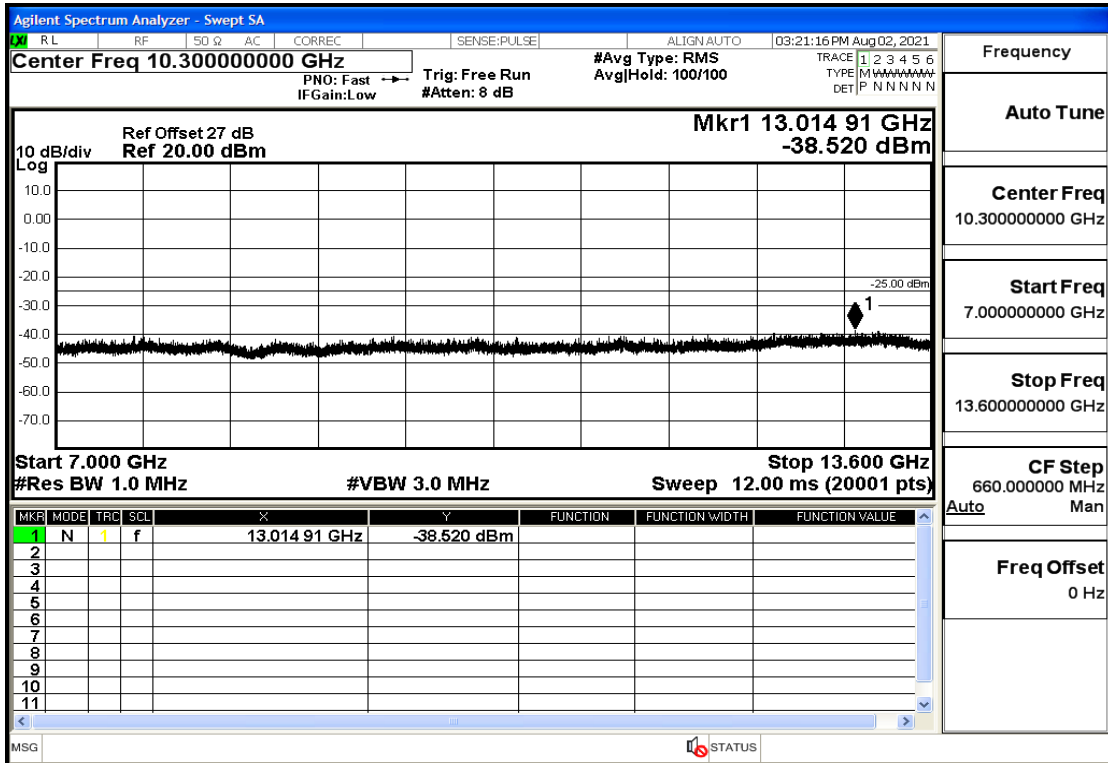


OB38-5-2617.5-QPSK-25#LOW@1GHz-7GHz@Pass

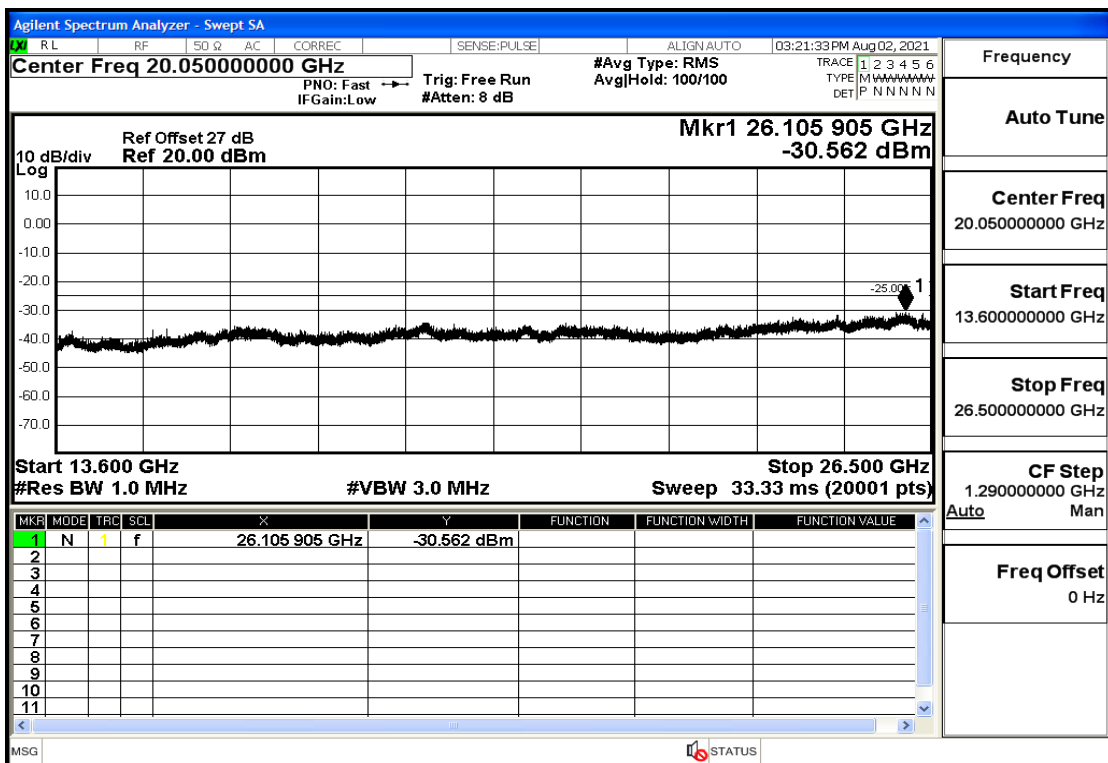




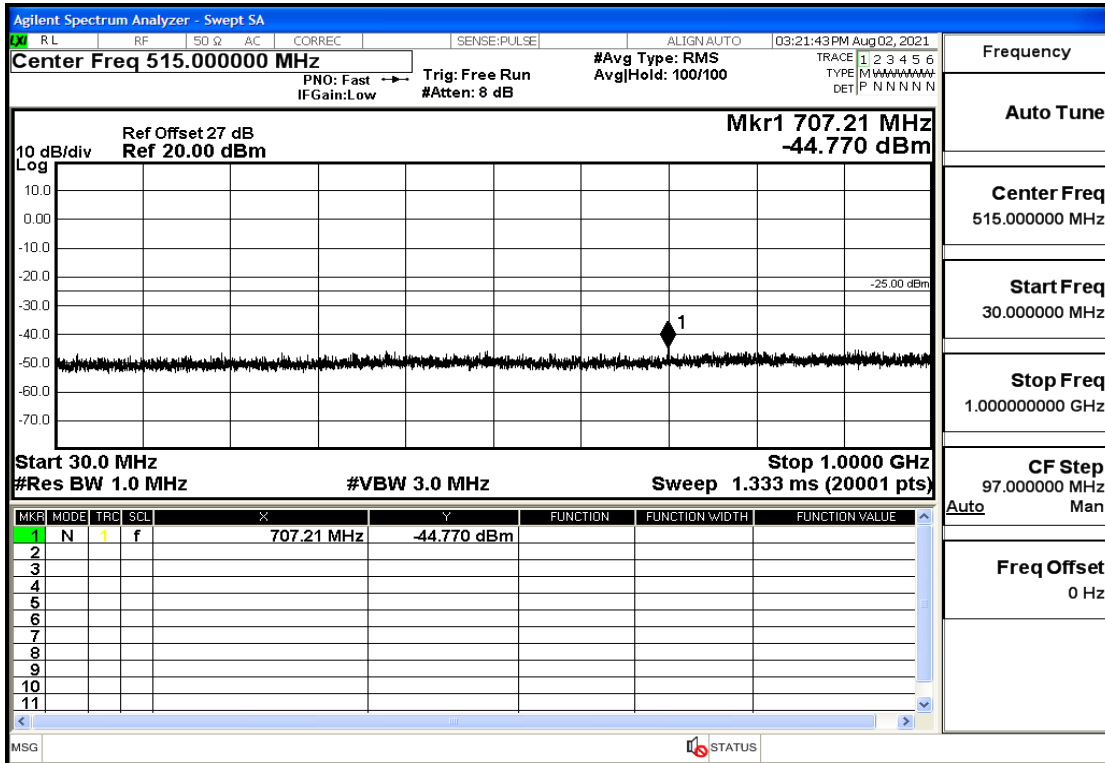
OB38-5-2617.5-QPSK-25#LOW@7GHz-13.6GHz@Pass



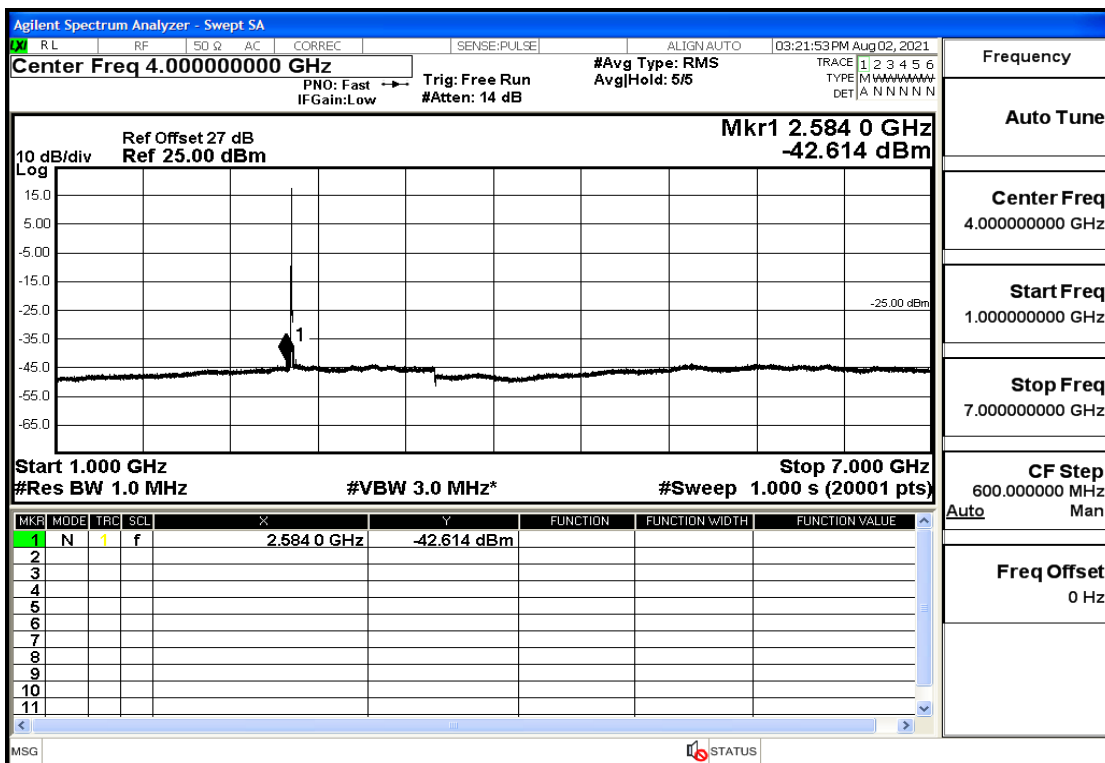
OB38-5-2617.5-QPSK-25#LOW@13.6GHz-26.5GHz@Pass



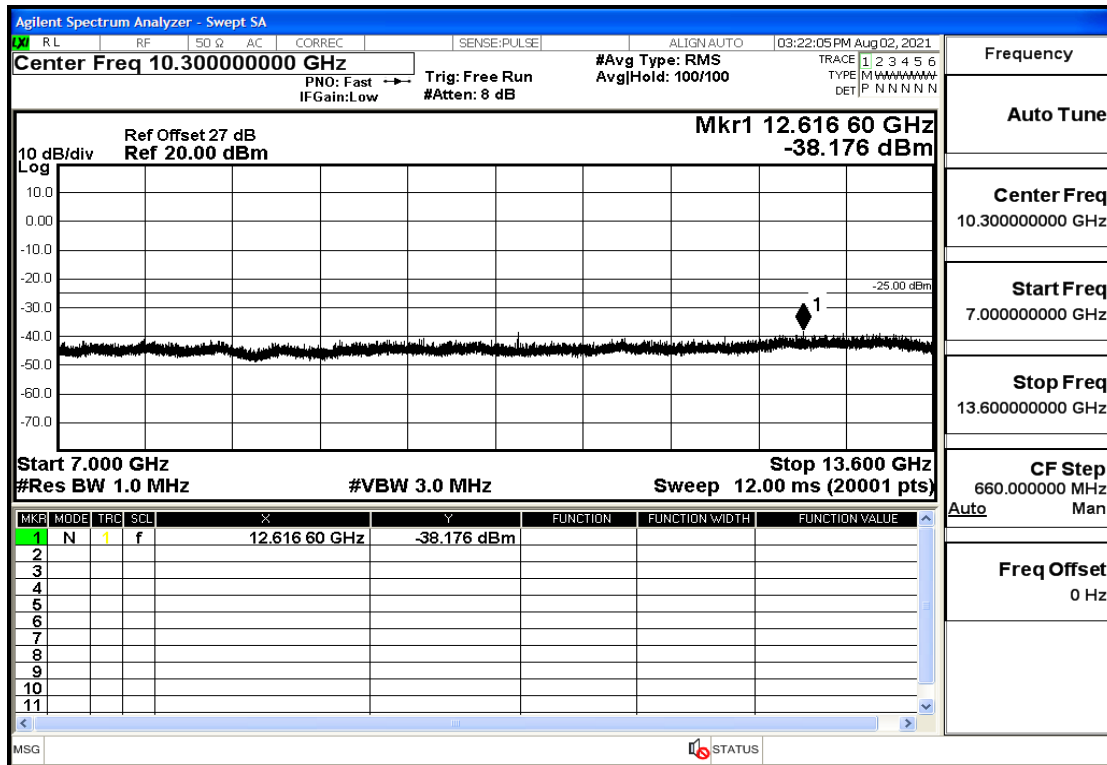
OB38-5-2617.5-QPSK-12#LOW@30mHz-1GHz@Pass



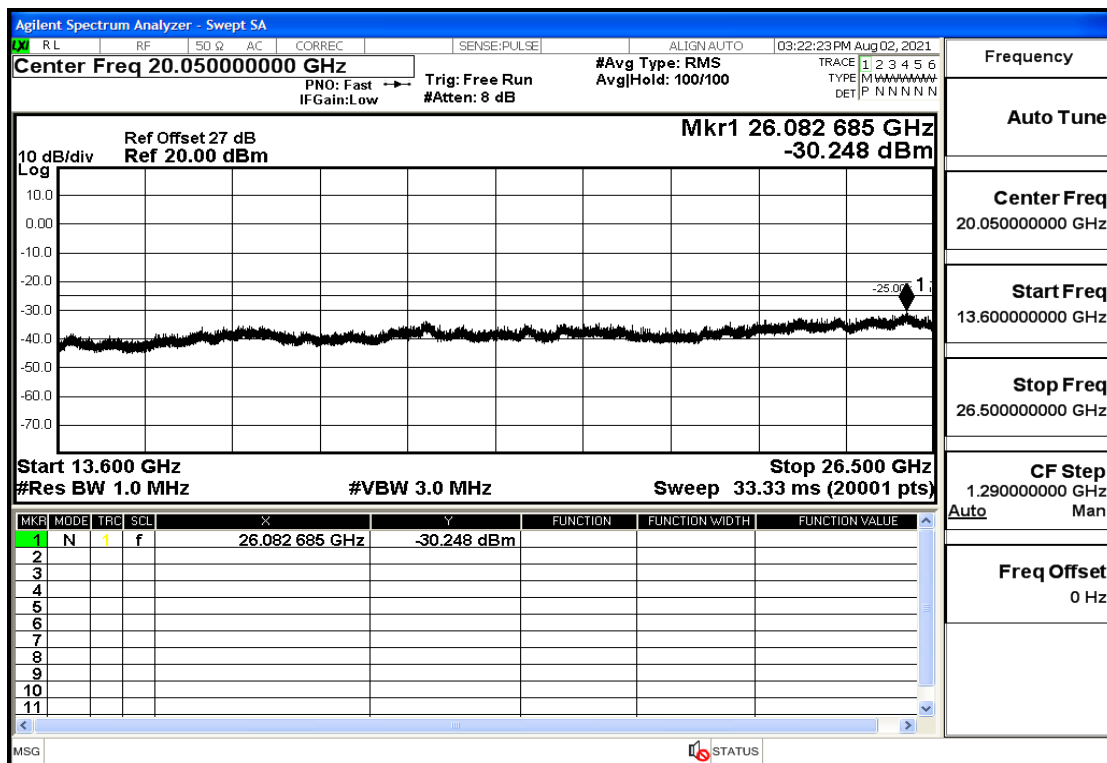
OB38-5-2617.5-QPSK-12#LOW@1GHz-7GHz@Pass



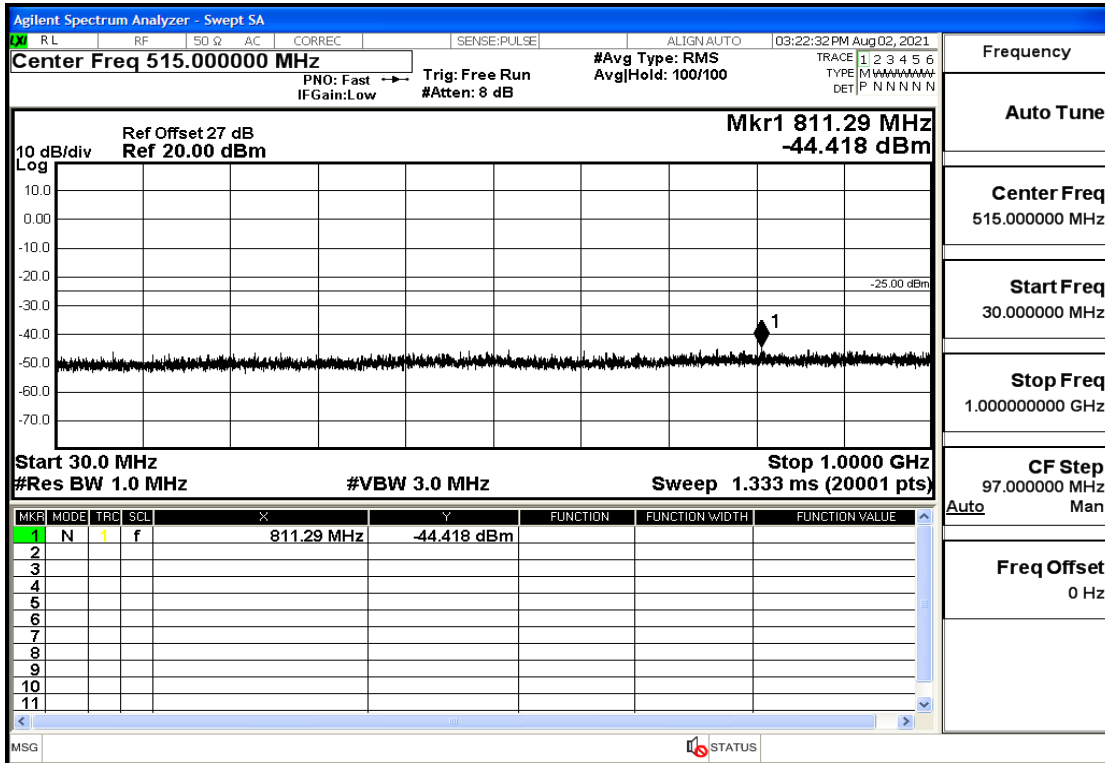
OB38-5-2617.5-QPSK-12#LOW@7GHz-13.6GHz@Pass



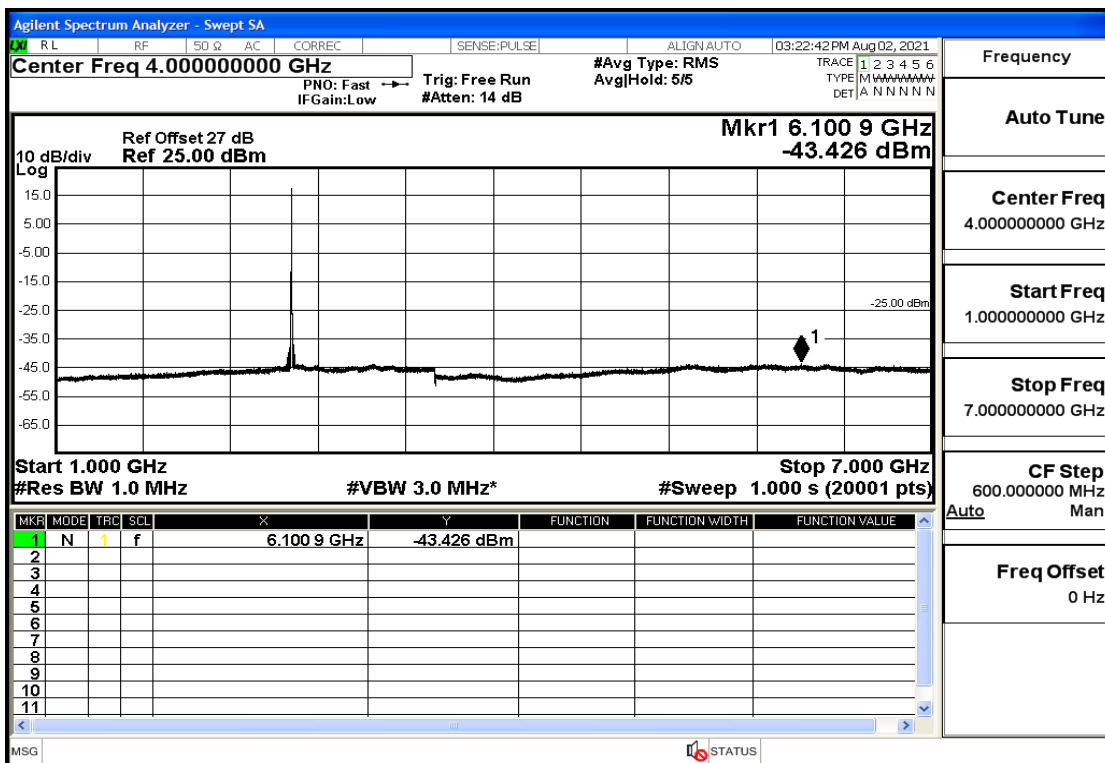
OB38-5-2617.5-QPSK-12#LOW@13.6GHz-26.5GHz@Pass



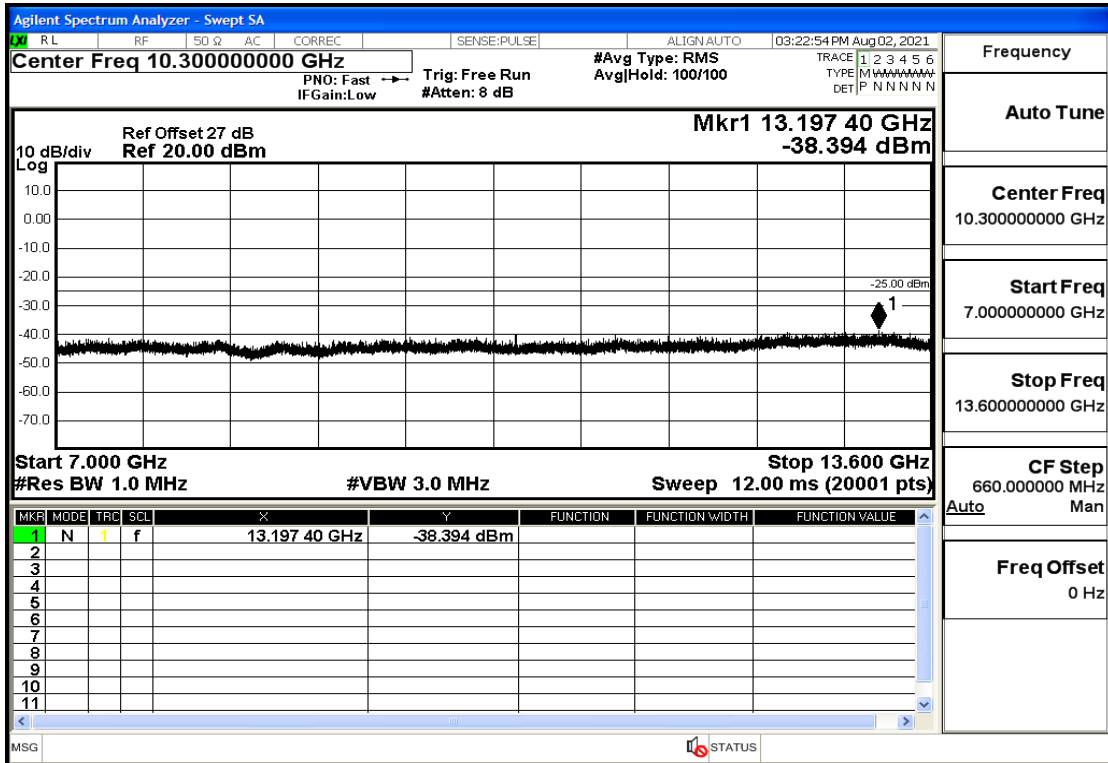
OB38-5-2617.5-QPSK-12#MID@30mHz-1GHz@Pass



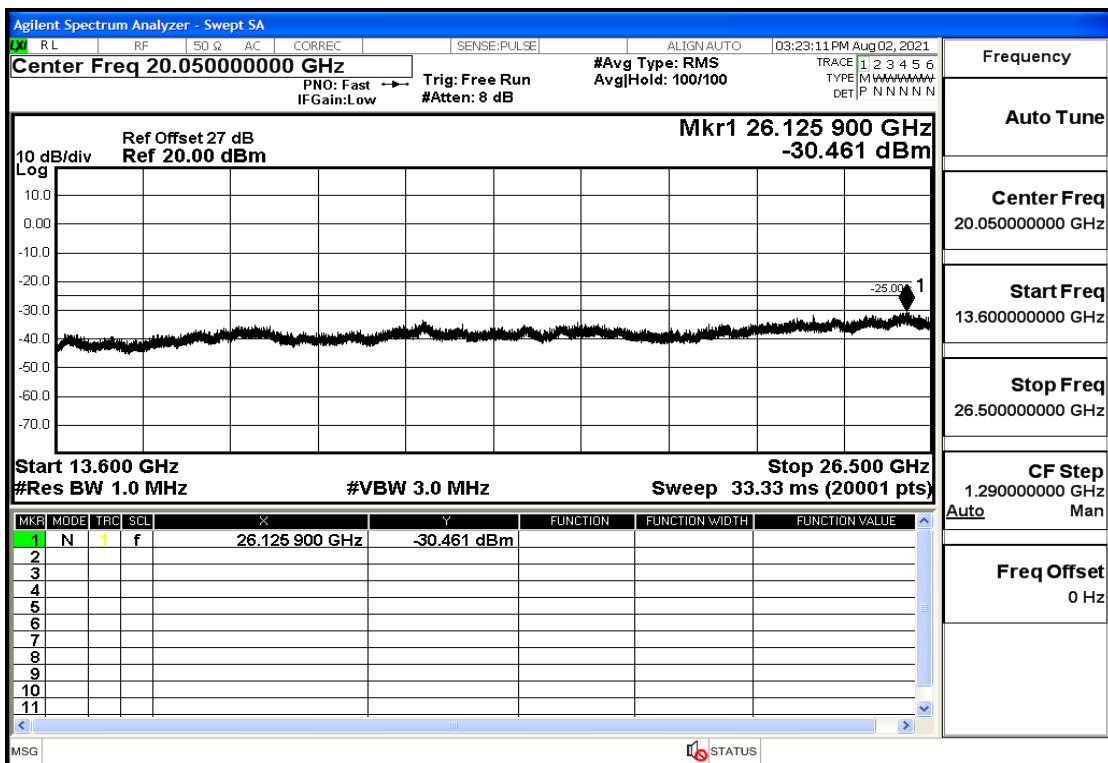
OB38-5-2617.5-QPSK-12#MID@1GHz-7GHz@Pass



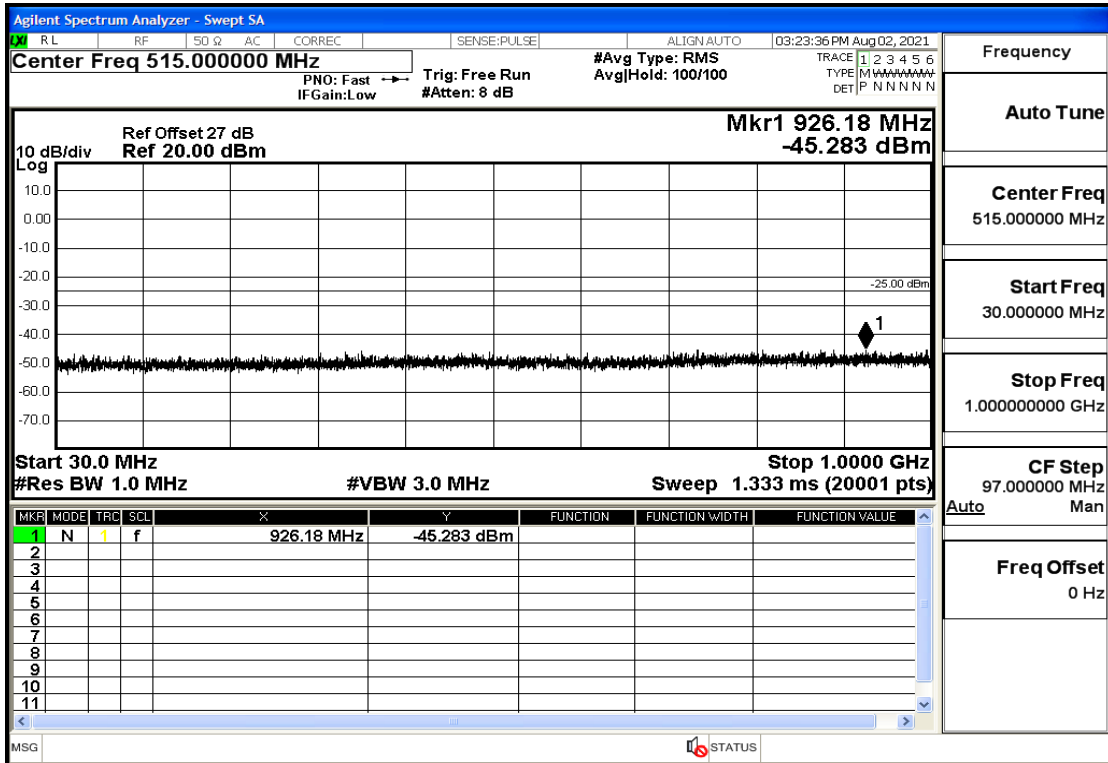
OB38-5-2617.5-QPSK-12#MID@7GHz-13.6GHz@Pass



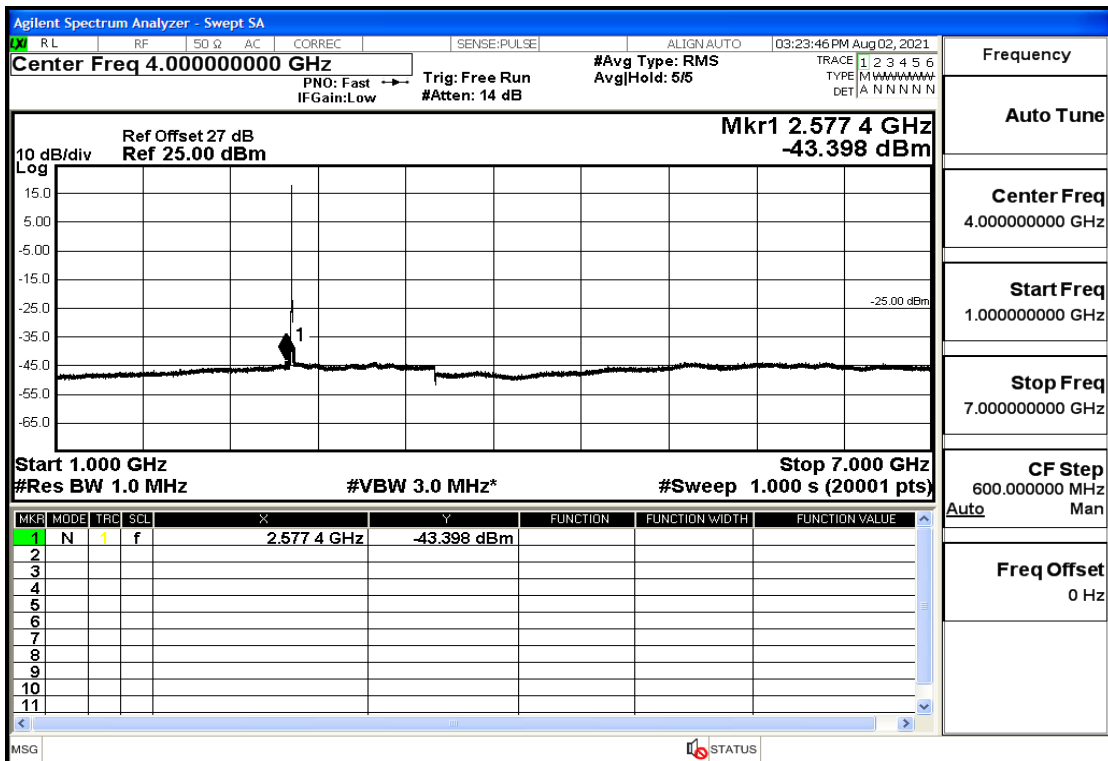
OB38-5-2617.5-QPSK-12#MID@13.6GHz-26.5GHz@Pass



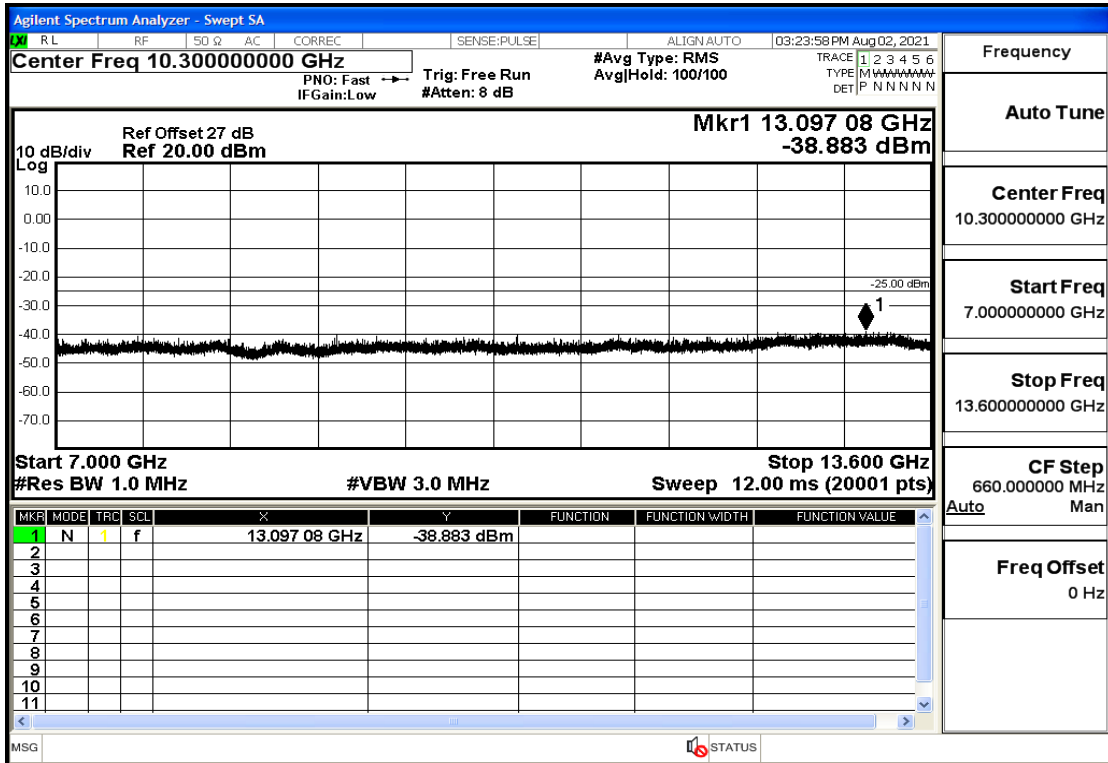
OB38-5-2617.5-QPSK-12#HIGH@30mHz-1GHz@Pass



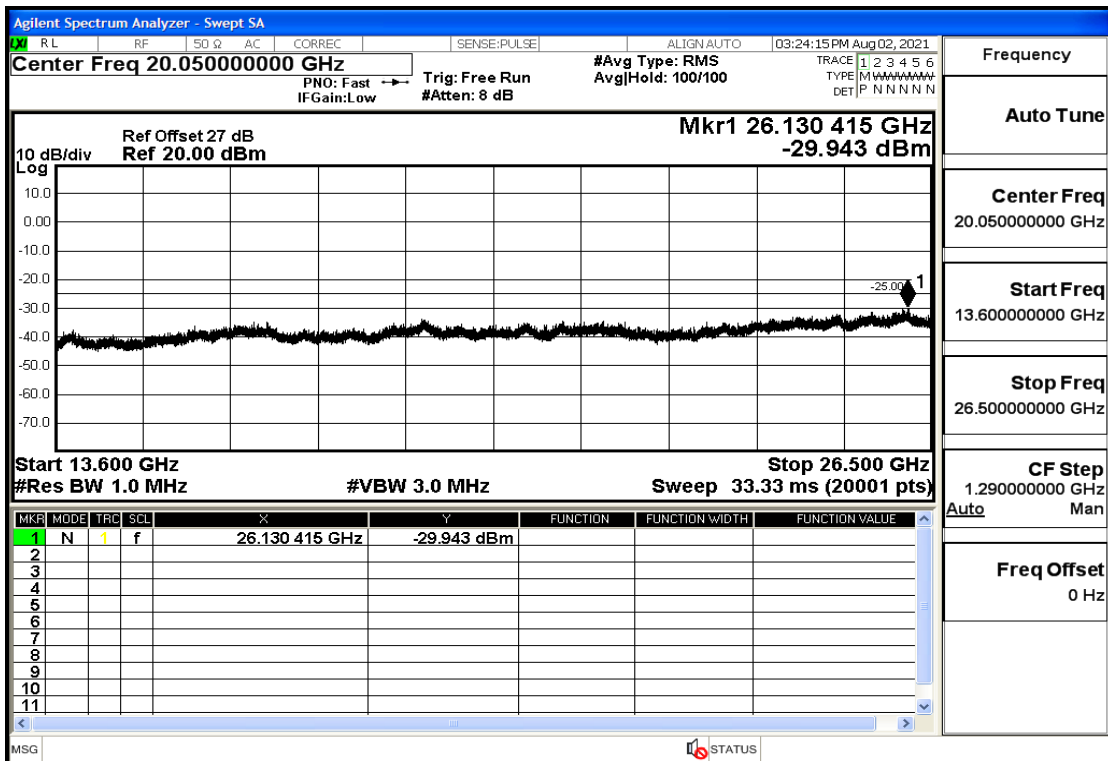
OB38-5-2617.5-QPSK-12#HIGH@1GHz-7GHz@Pass



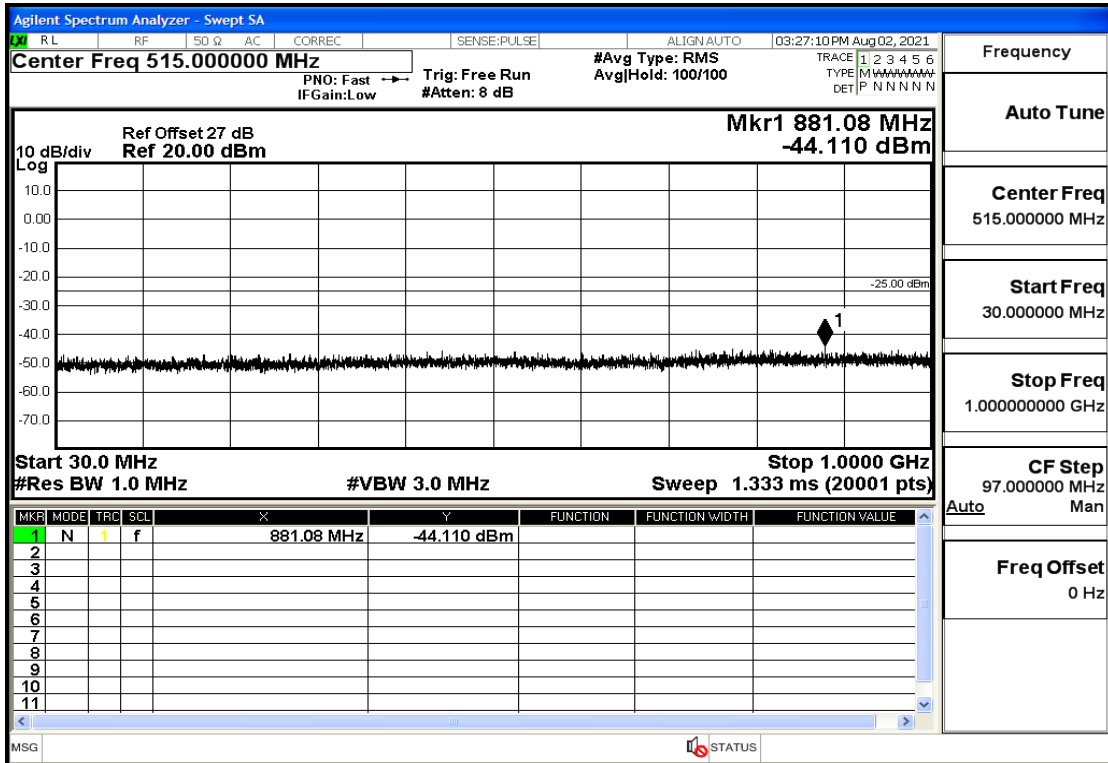
OB38-5-2617.5-QPSK-12#HIGH@7GHz-13.6GHz@Pass



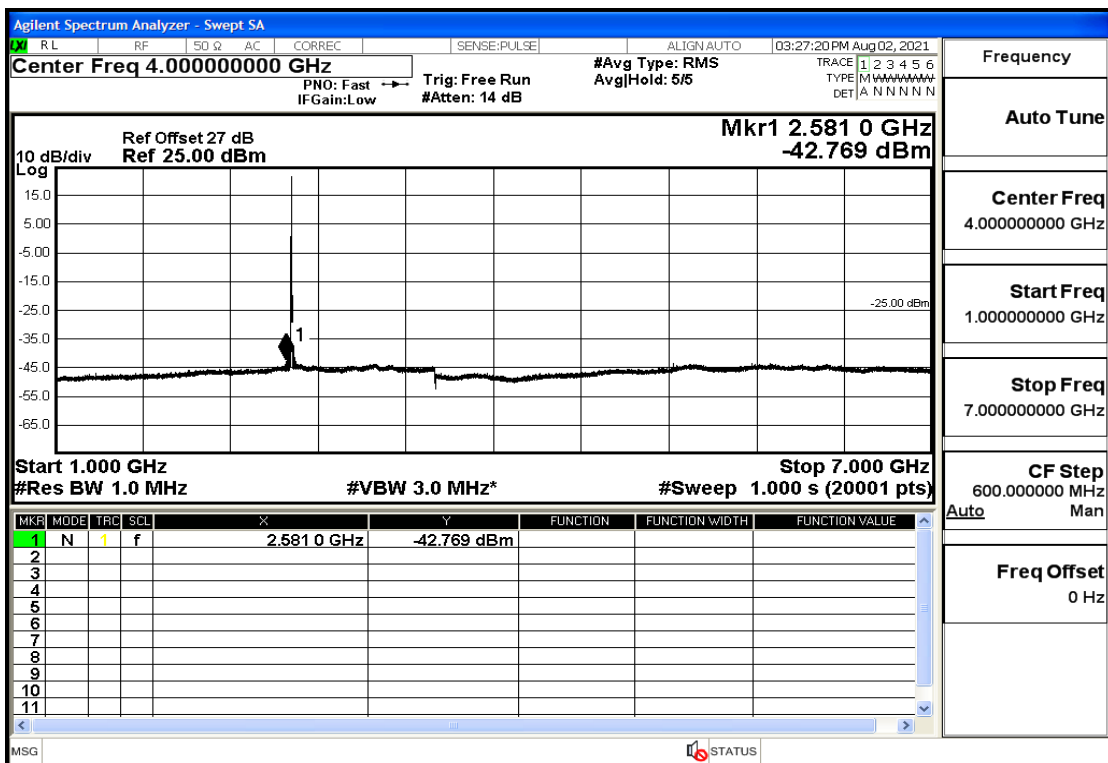
OB38-5-2617.5-QPSK-12#HIGH@13.6GHz-26.5GHz@Pass



OB38-5-2617.5-QPSK-1#LOW@30mHz-1GHz@Pass

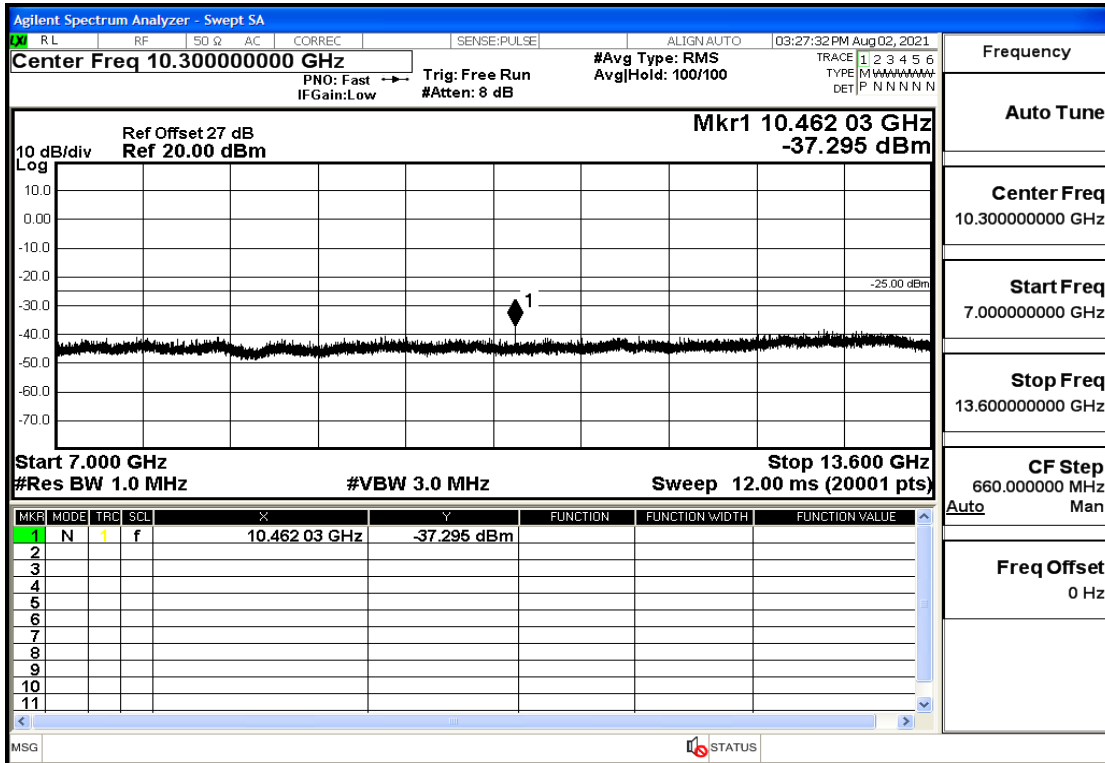


OB38-5-2617.5-QPSK-1#LOW@1GHz-7GHz@Pass

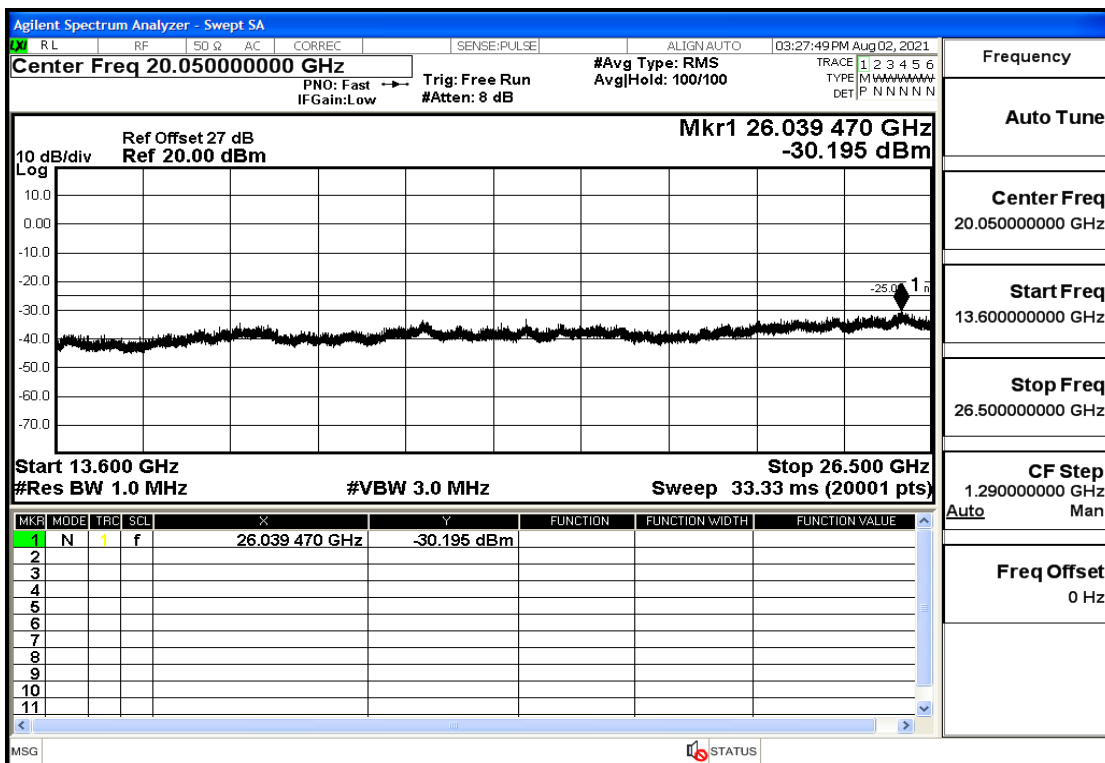




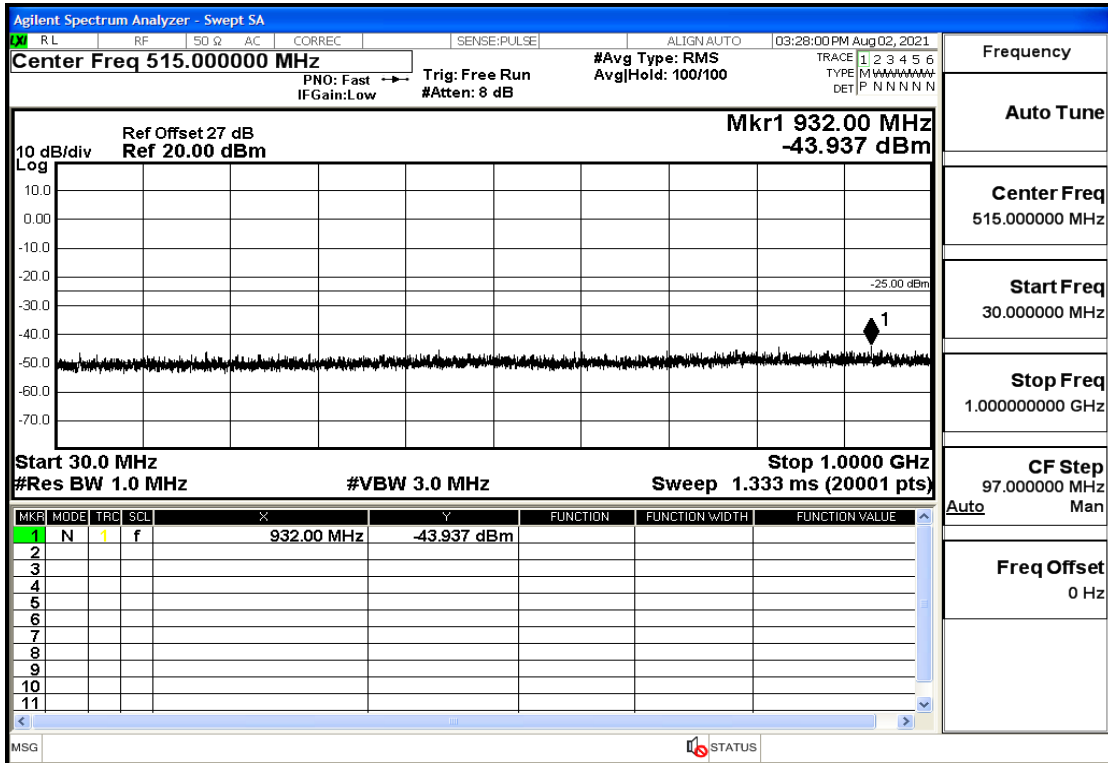
OB38-5-2617.5-QPSK-1#LOW@7GHz-13.6GHz@Pass



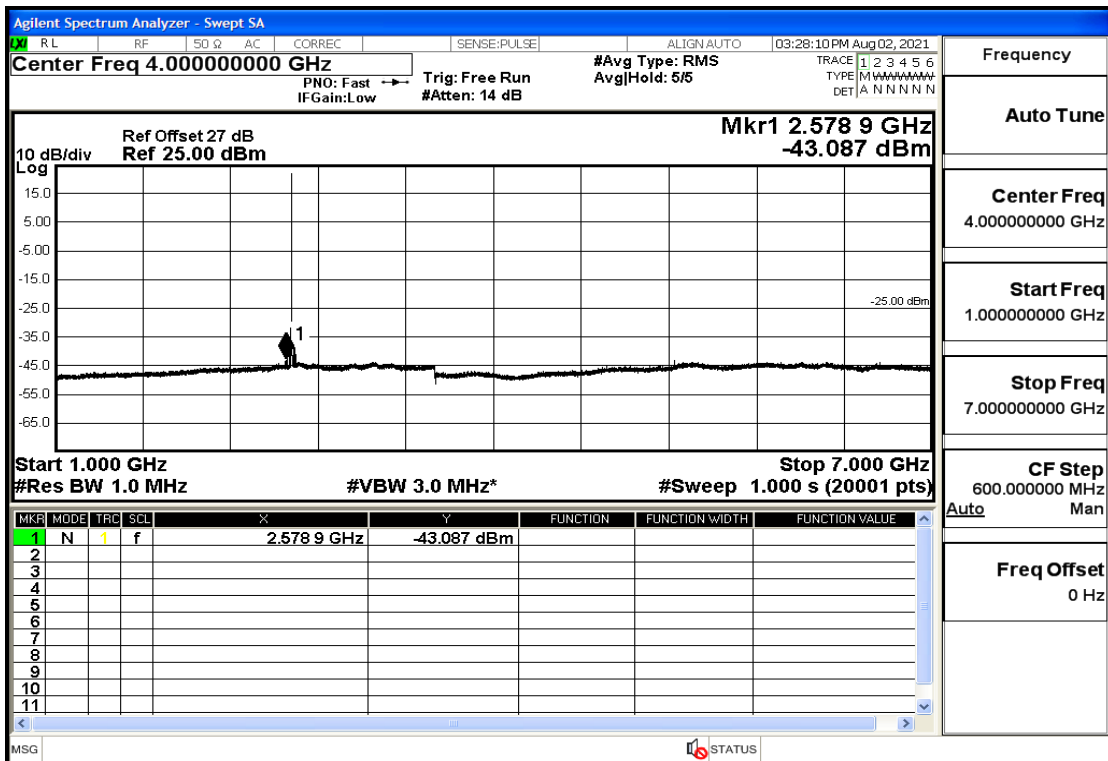
OB38-5-2617.5-QPSK-1#LOW@13.6GHz-26.5GHz@Pass



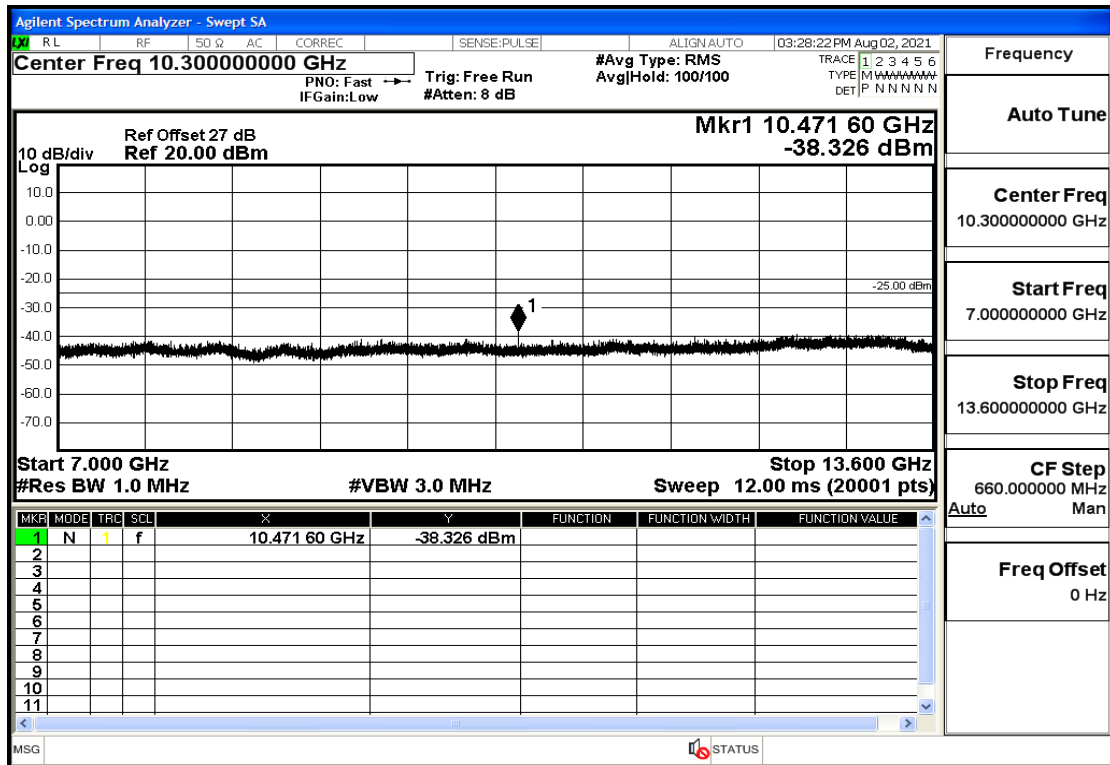
OB38-5-2617.5-QPSK-1#MID@30mHz-1GHz@Pass



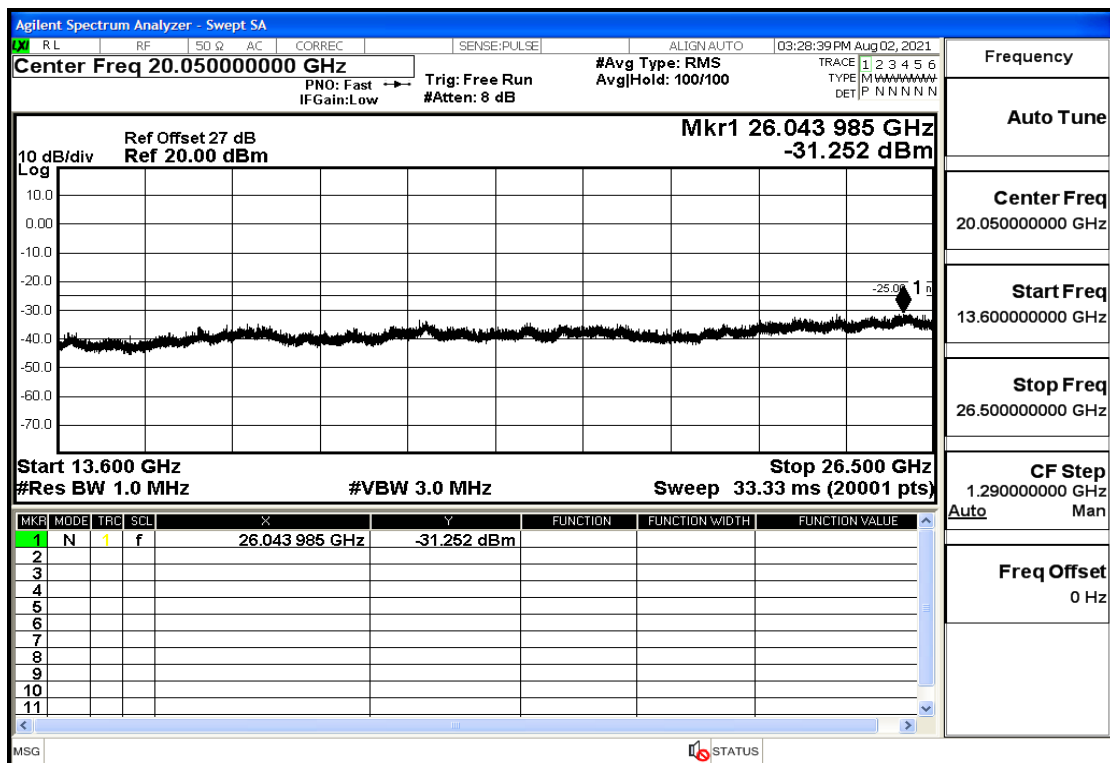
OB38-5-2617.5-QPSK-1#MID@1GHz-7GHz@Pass



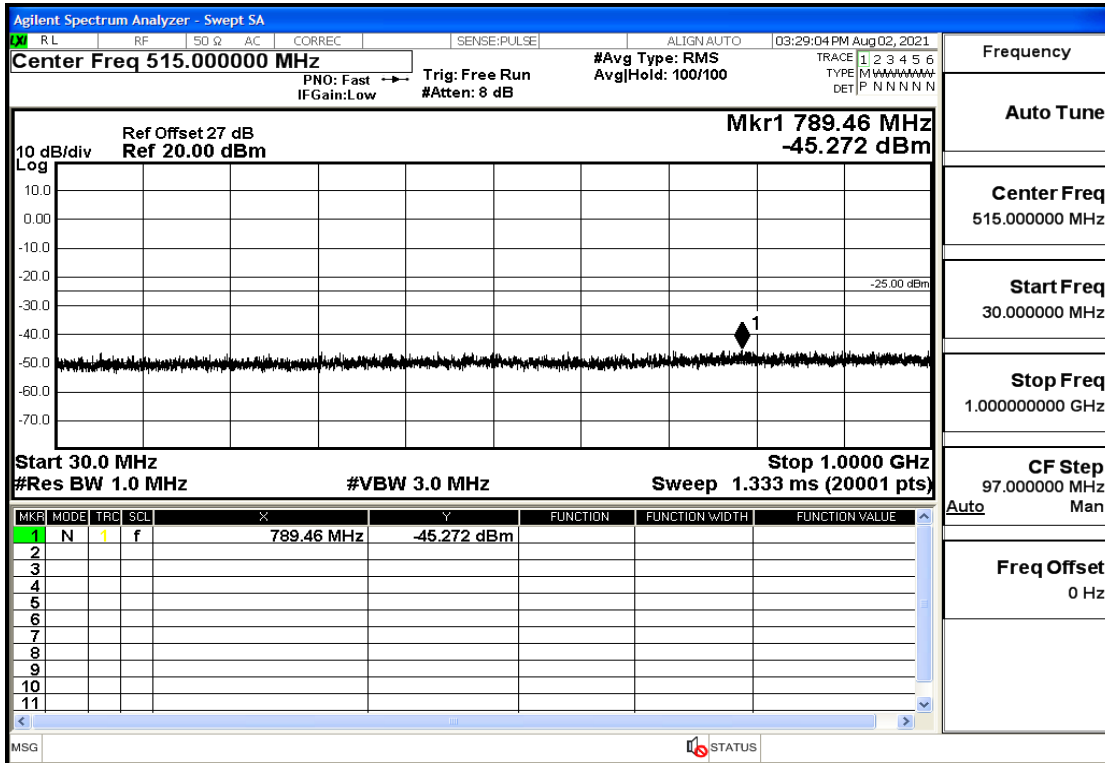
OB38-5-2617.5-QPSK-1#MID@7GHz-13.6GHz@Pass



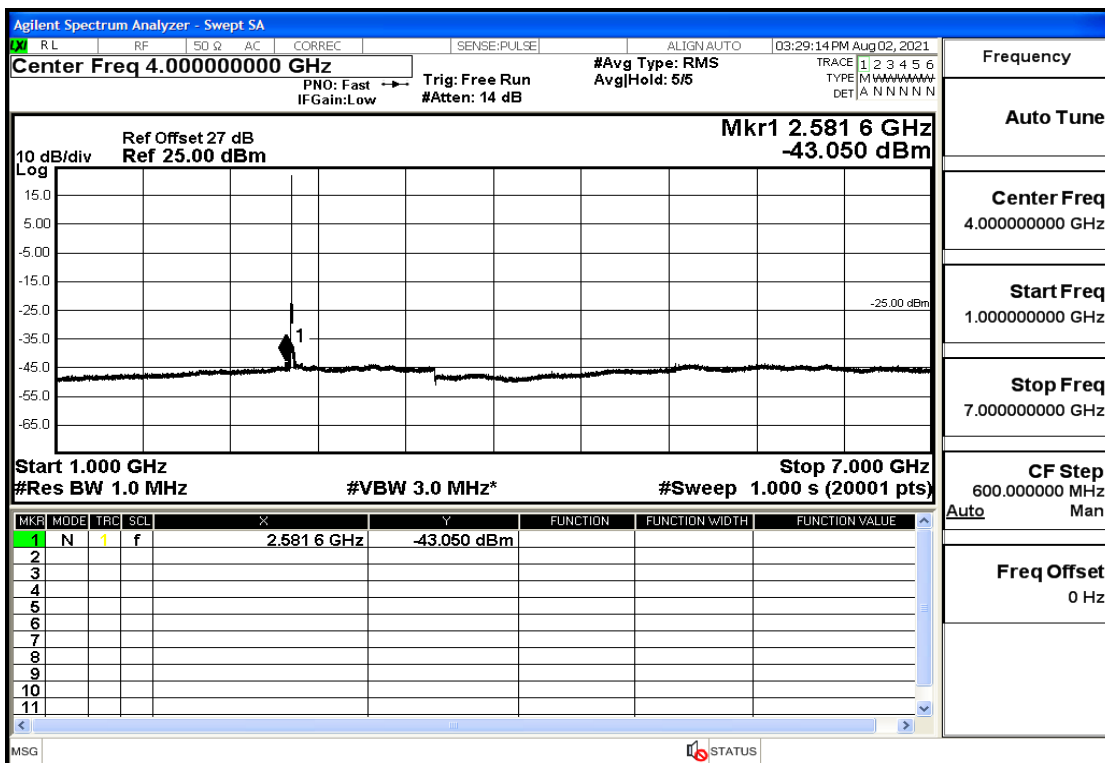
OB38-5-2617.5-QPSK-1#MID@13.6GHz-26.5GHz@Pass



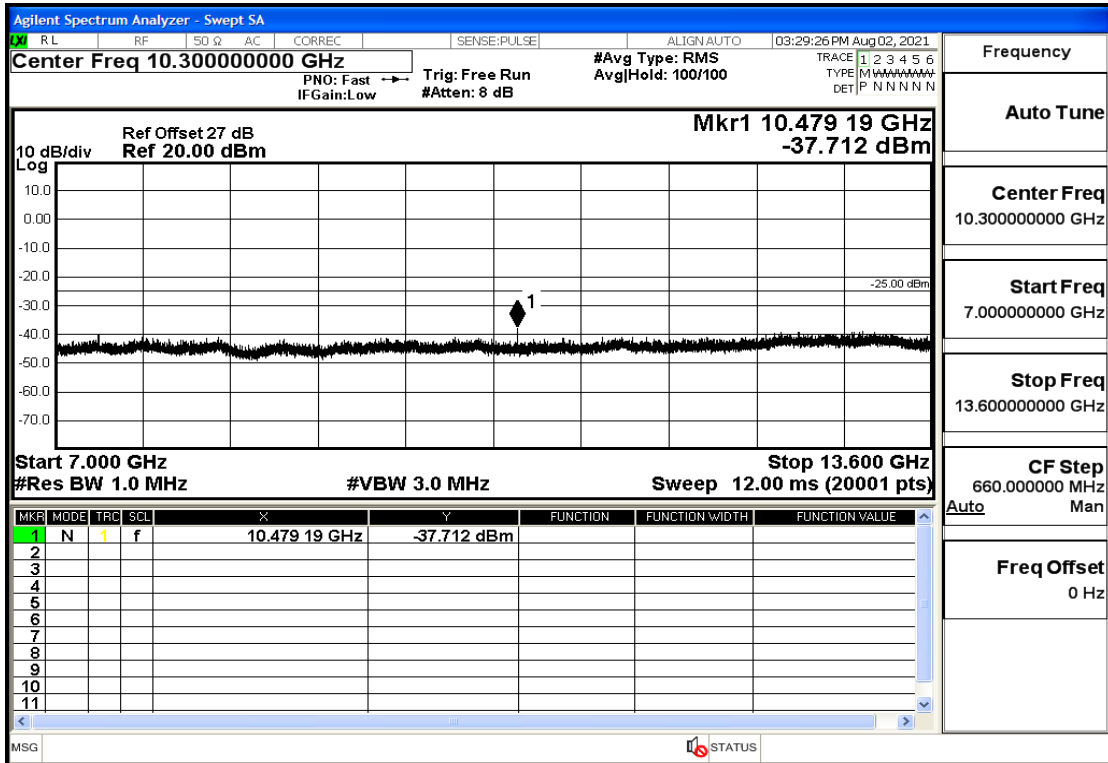
OB38-5-2617.5-QPSK-1#HIGH@30mHz-1GHz@Pass



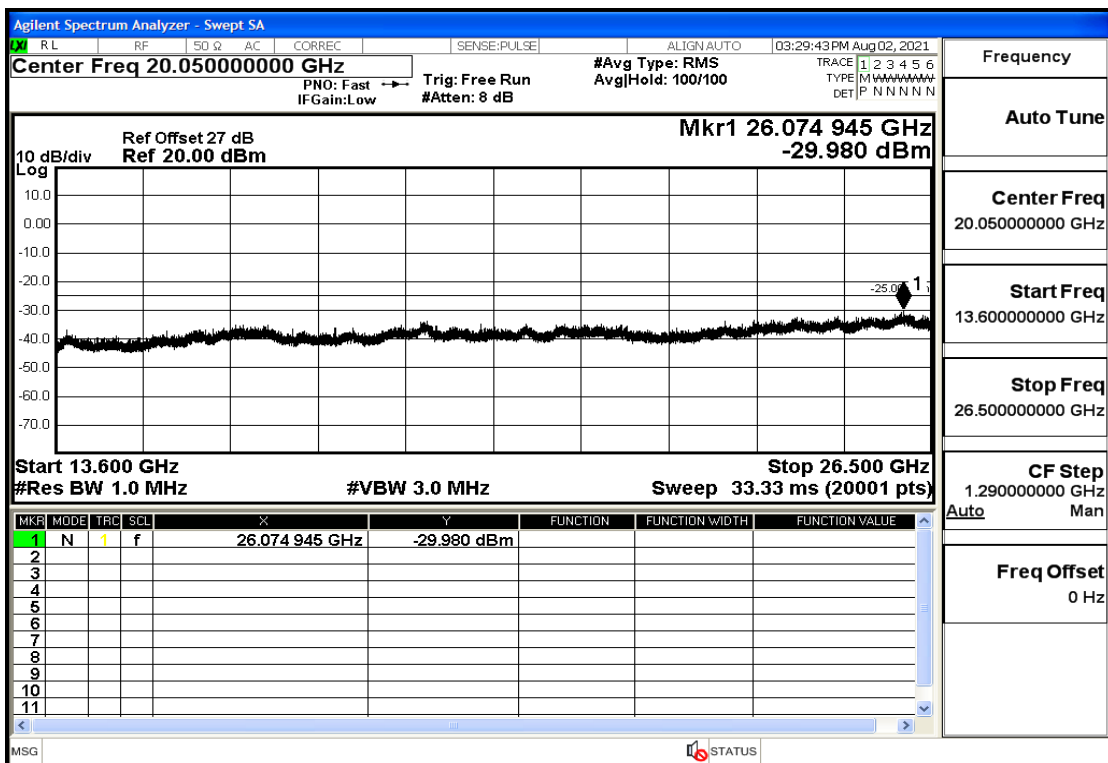
OB38-5-2617.5-QPSK-1#HIGH@1GHz-7GHz@Pass



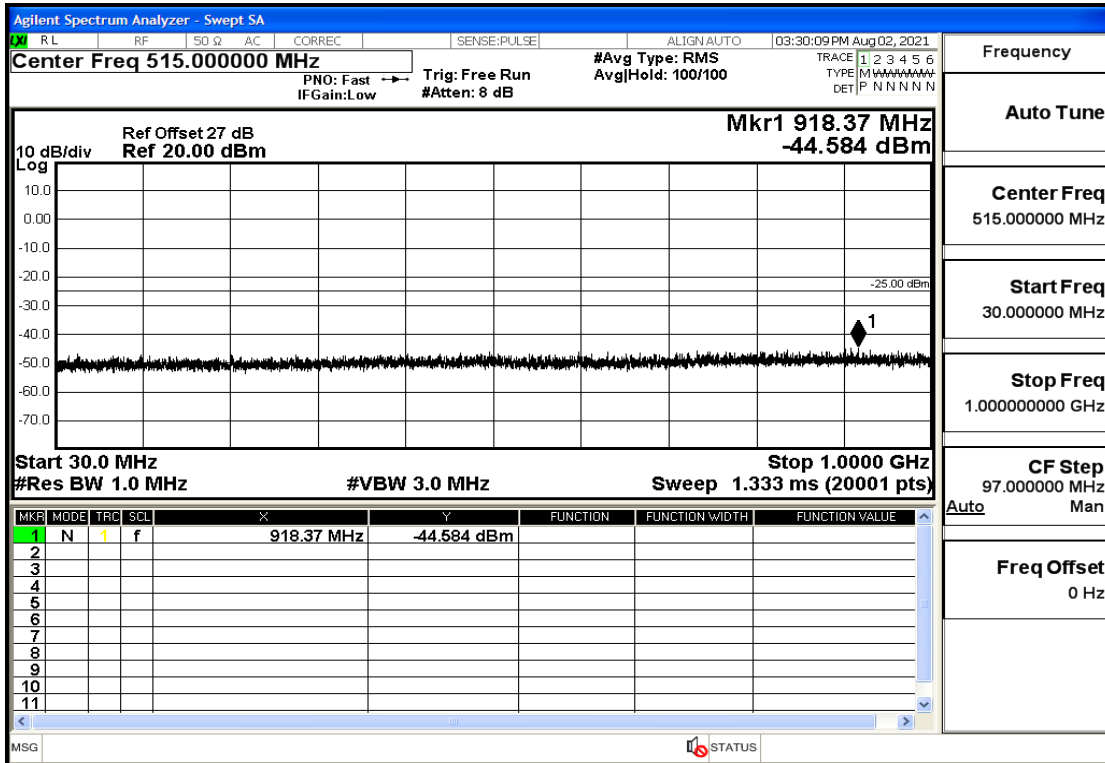
OB38-5-2617.5-QPSK-1#HIGH@7GHz-13.6GHz@Pass



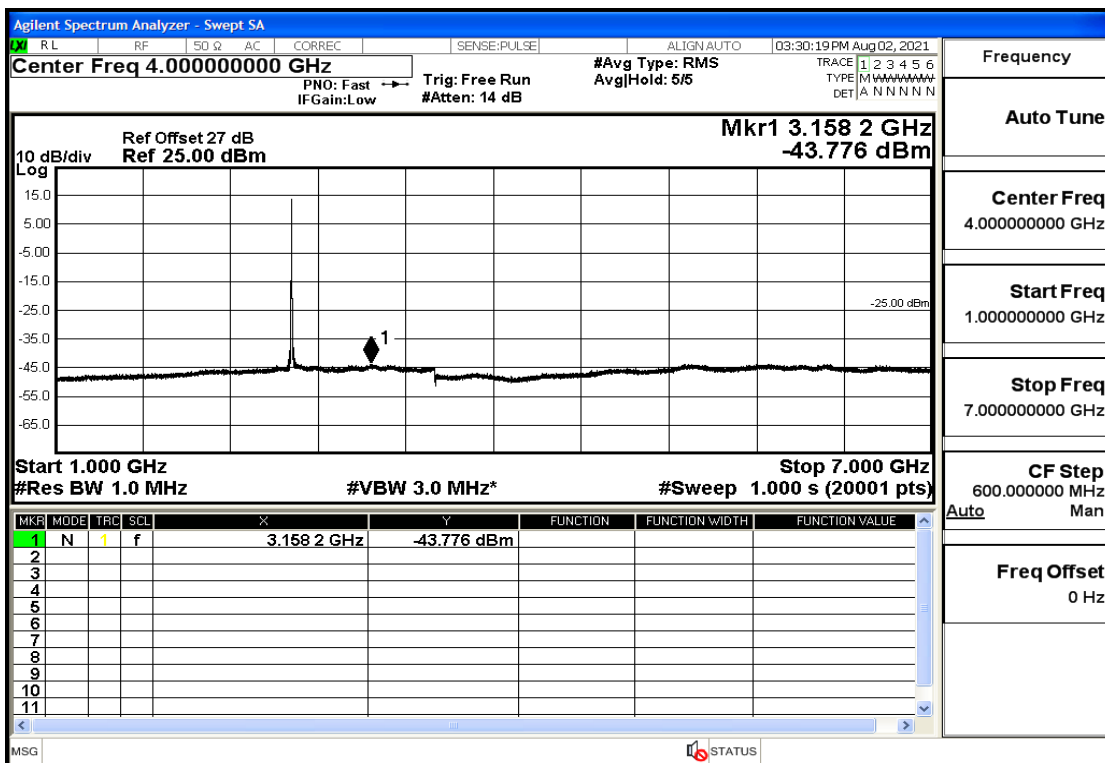
OB38-5-2617.5-QPSK-1#HIGH@13.6GHz-26.5GHz@Pass



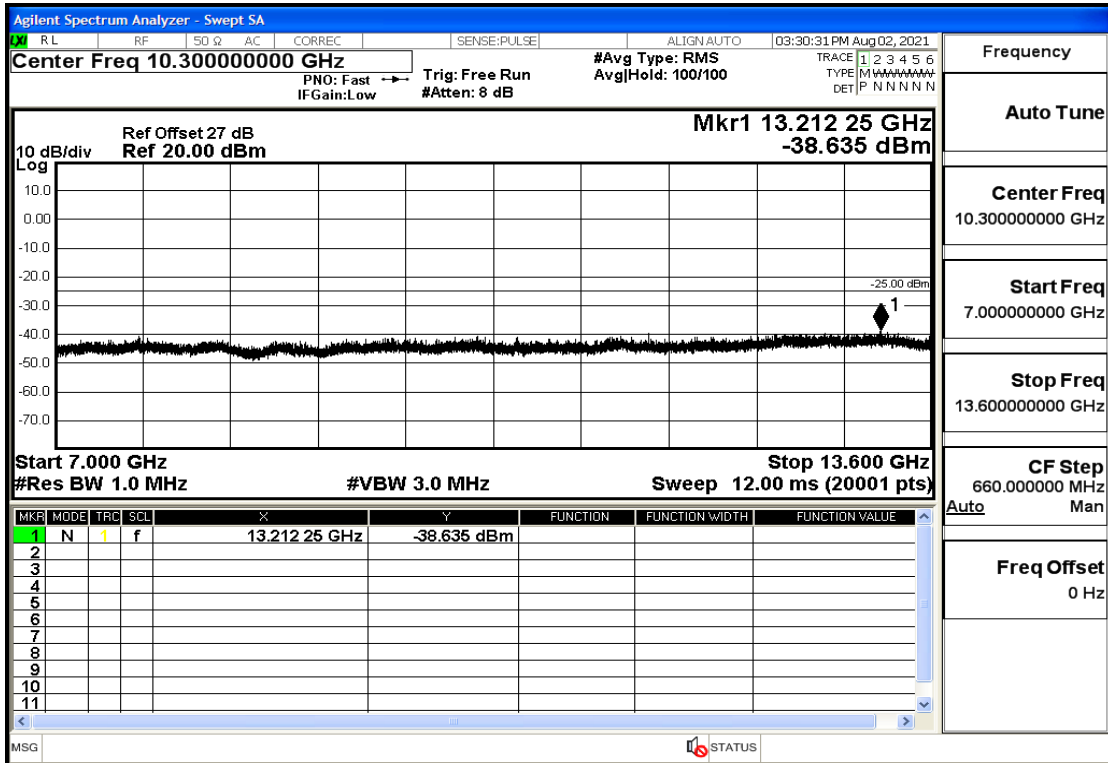
OB38-5-2617.5-Q16-25#LOW@30mHz-1GHz@Pass



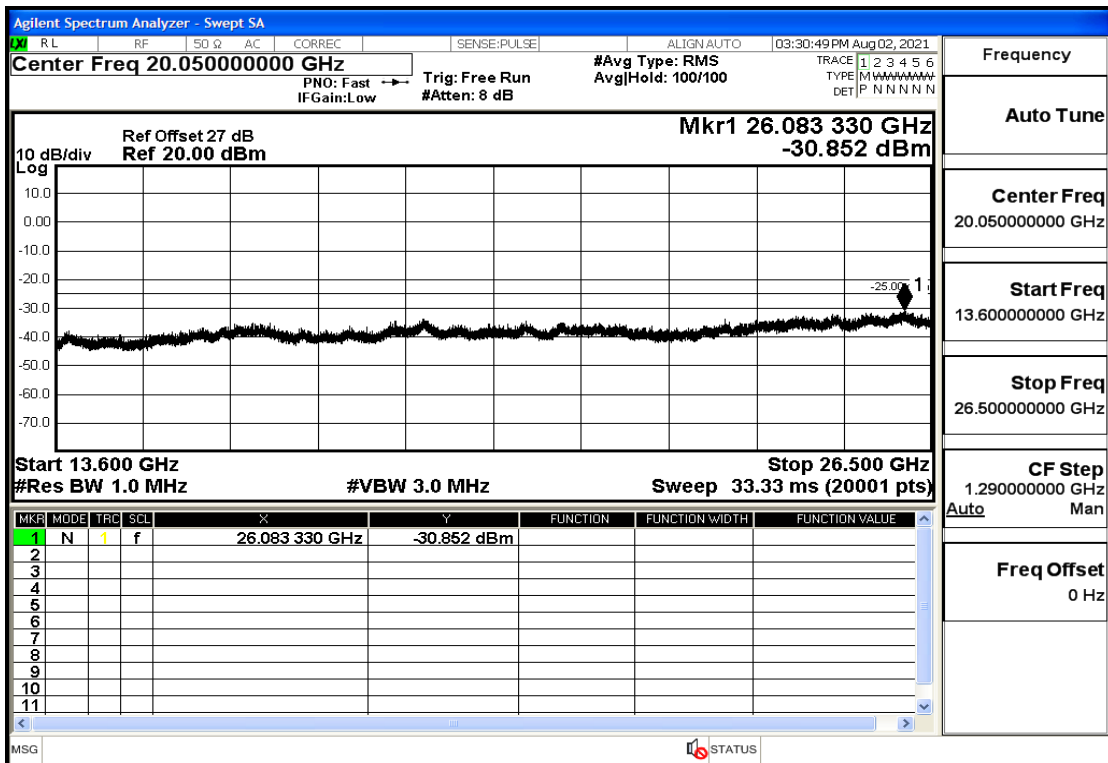
OB38-5-2617.5-Q16-25#LOW@1GHz-7GHz@Pass



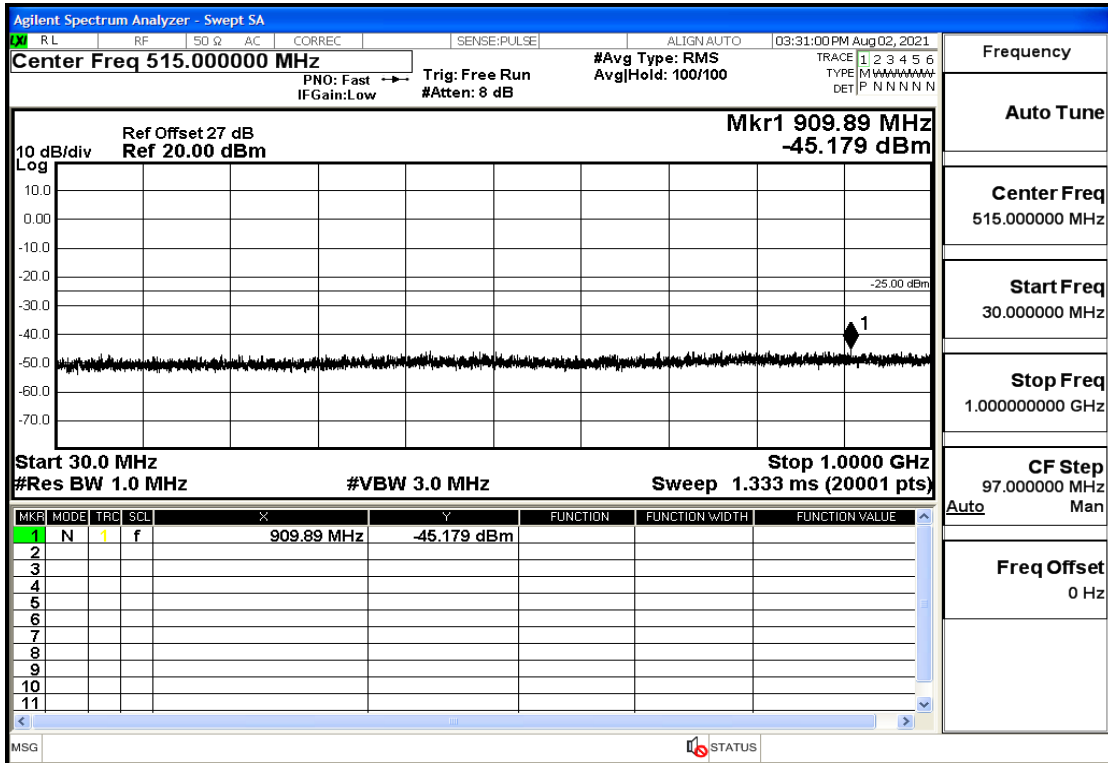
OB38-5-2617.5-Q16-25#LOW@7GHz-13.6GHz@Pass



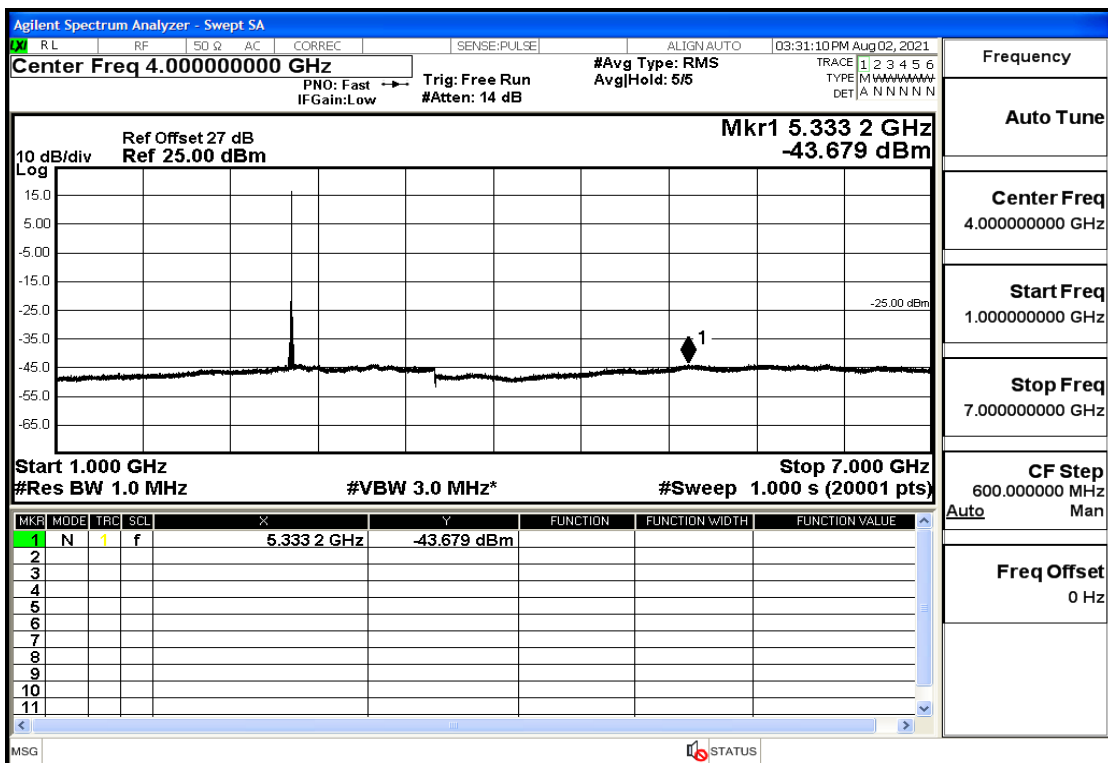
OB38-5-2617.5-Q16-25#LOW@13.6GHz-26.5GHz@Pass



OB38-5-2617.5-Q16-12#LOW@30mHz-1GHz@Pass

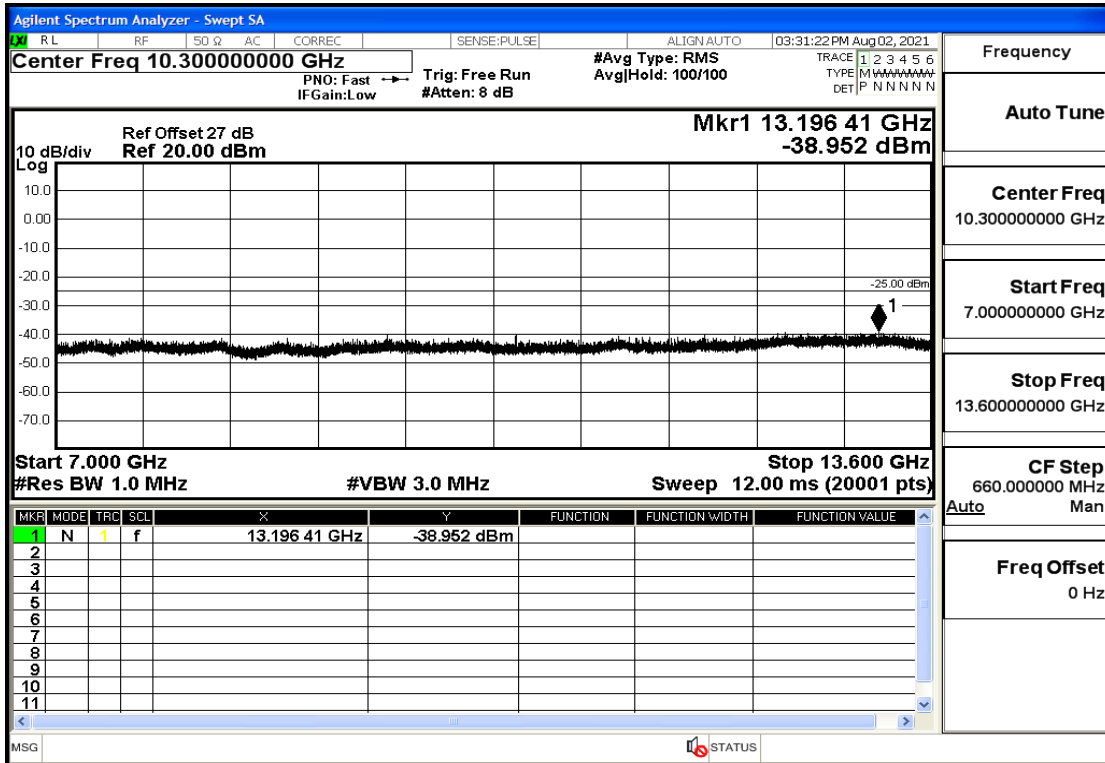


OB38-5-2617.5-Q16-12#LOW@1GHz-7GHz@Pass

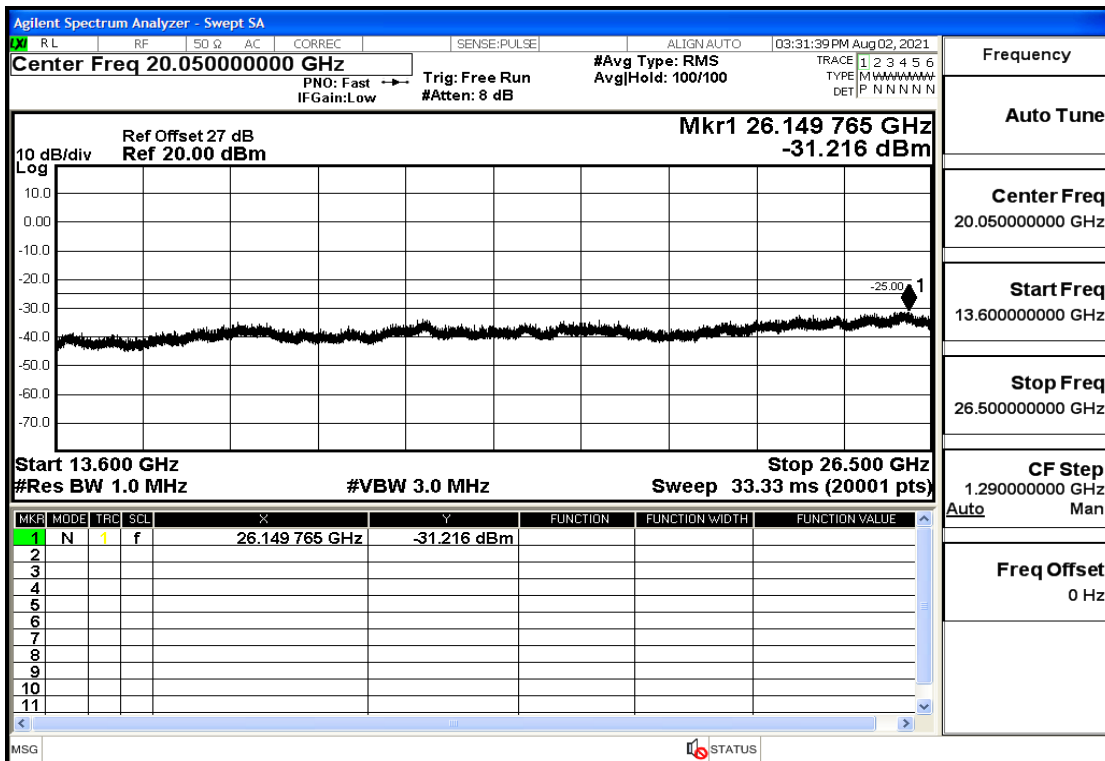




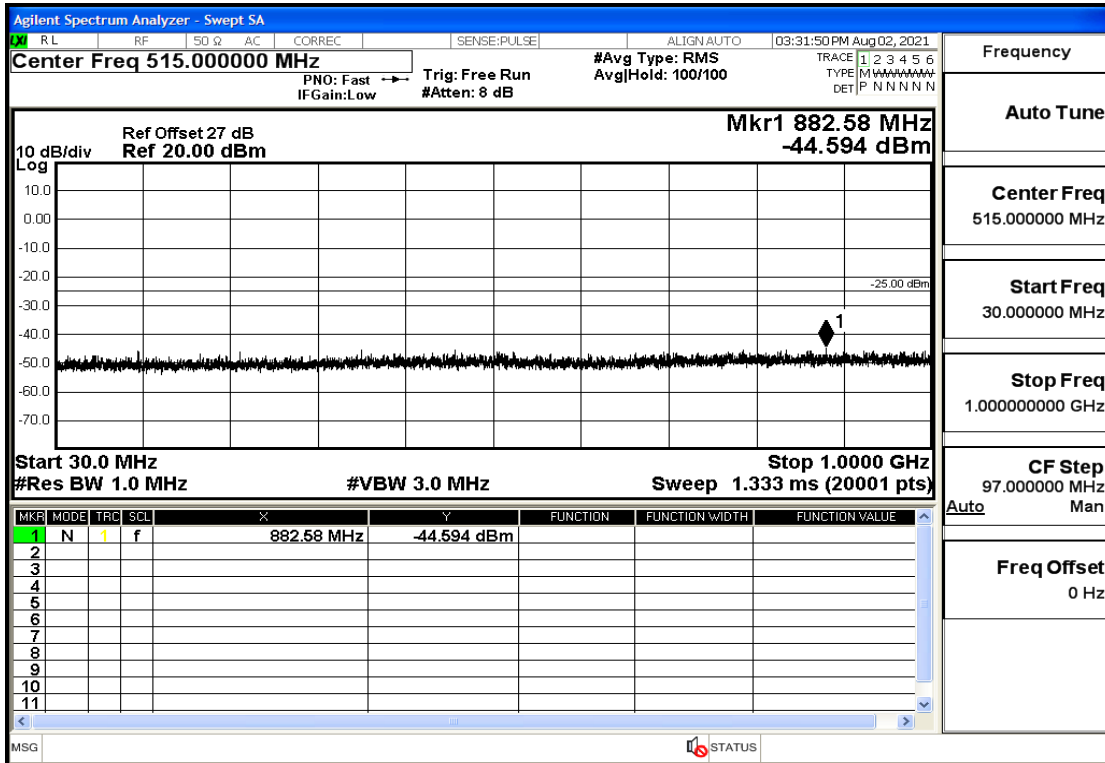
OB38-5-2617.5-Q16-12#LOW@7GHz-13.6GHz@Pass



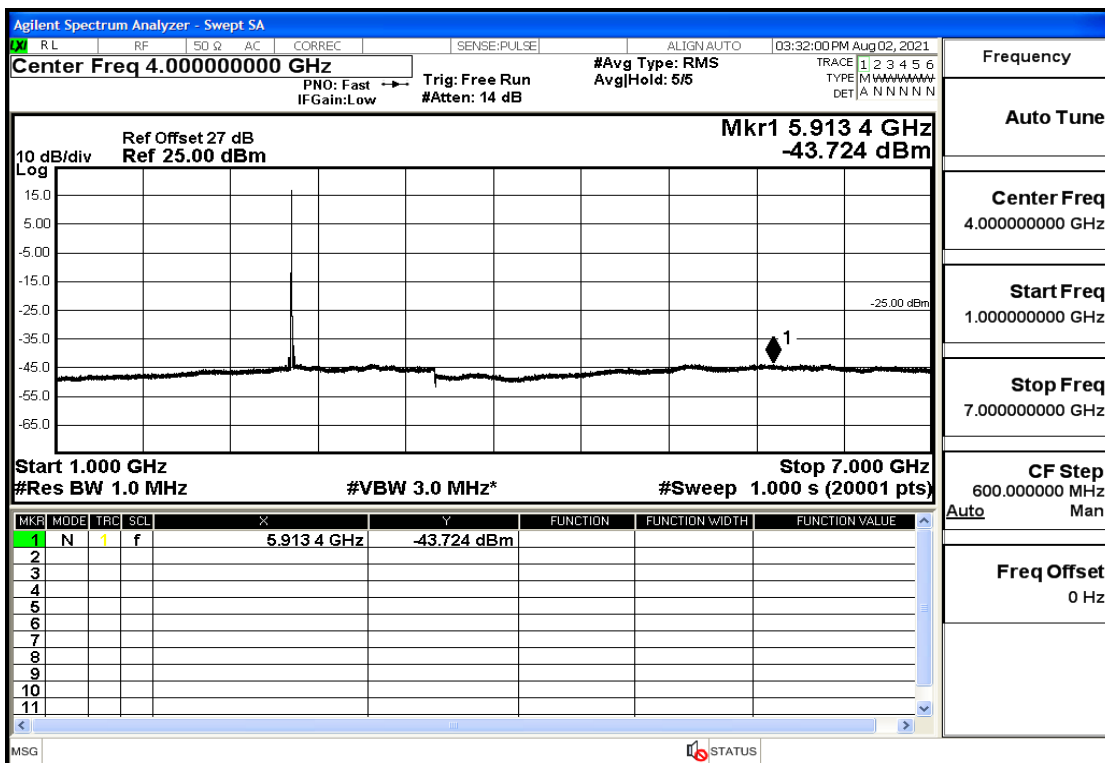
OB38-5-2617.5-Q16-12#LOW@13.6GHz-26.5GHz@Pass



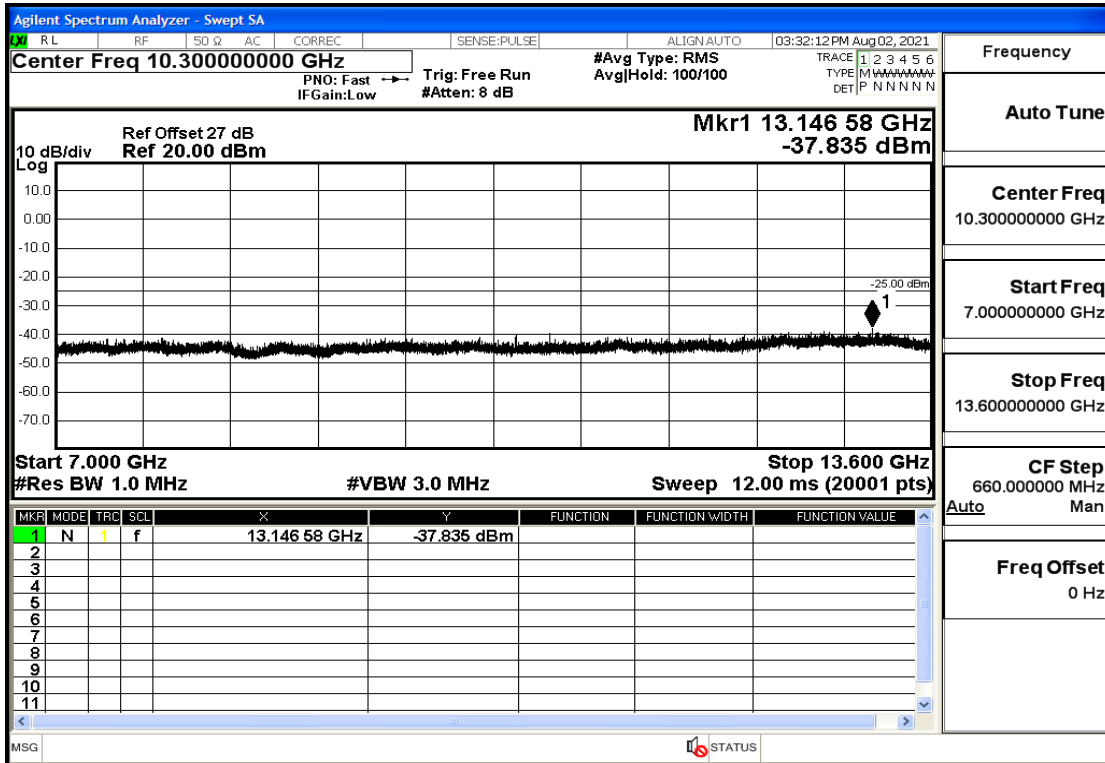
OB38-5-2617.5-Q16-12#MID@30mHz-1GHz@Pass



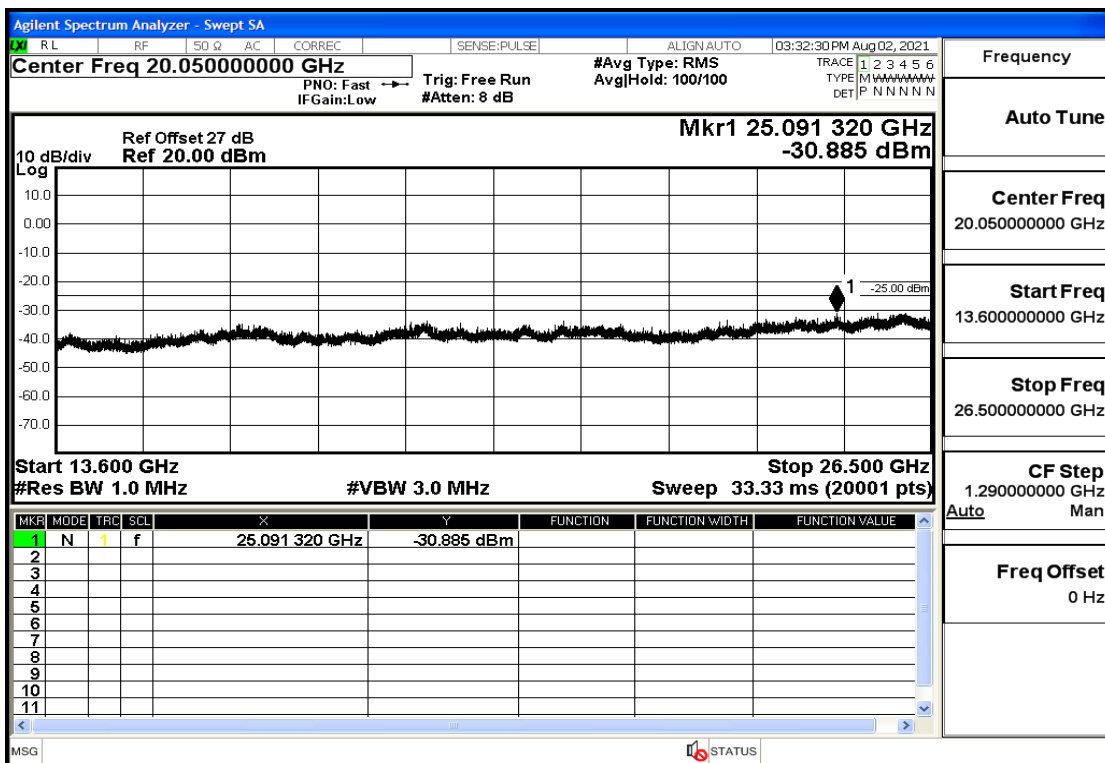
OB38-5-2617.5-Q16-12#MID@1GHz-7GHz@Pass



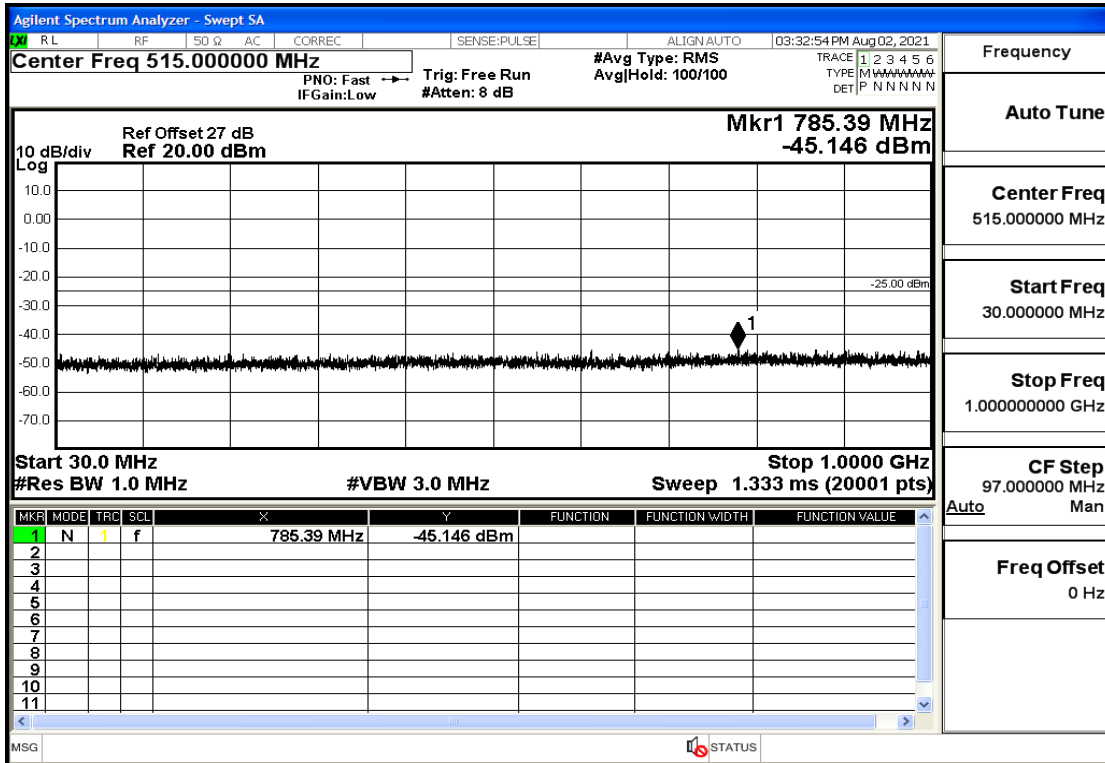
OB38-5-2617.5-Q16-12#MID@7GHz-13.6GHz@Pass



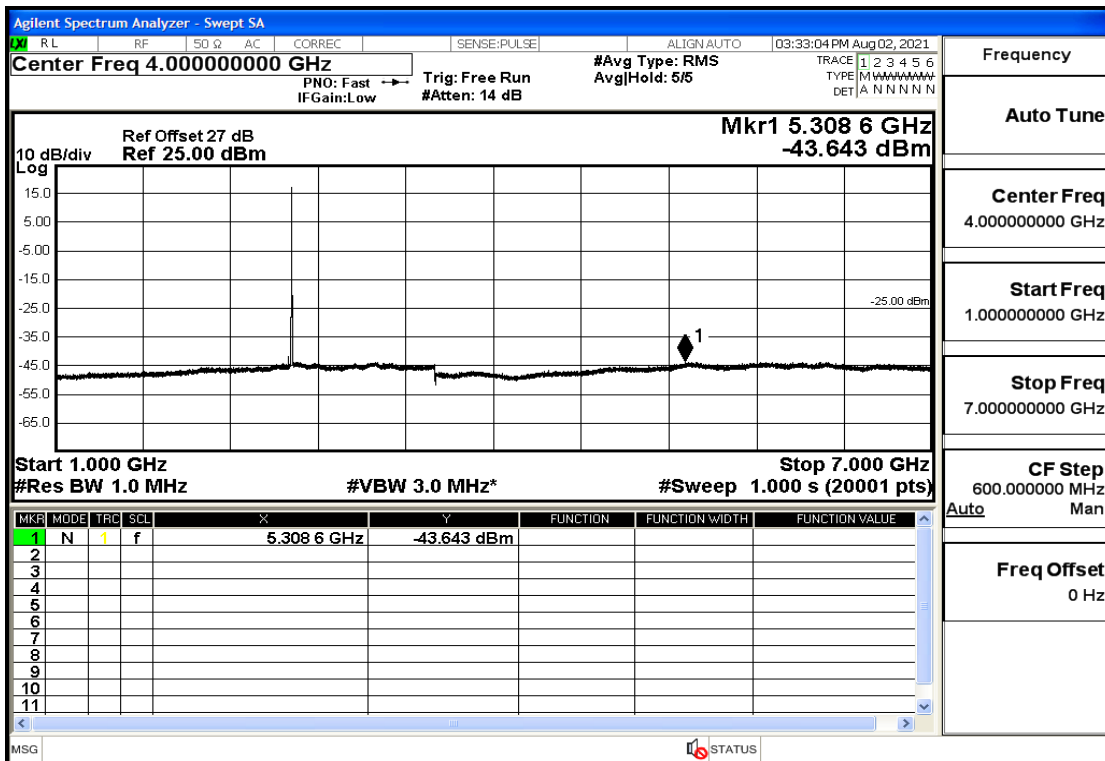
OB38-5-2617.5-Q16-12#MID@13.6GHz-26.5GHz@Pass



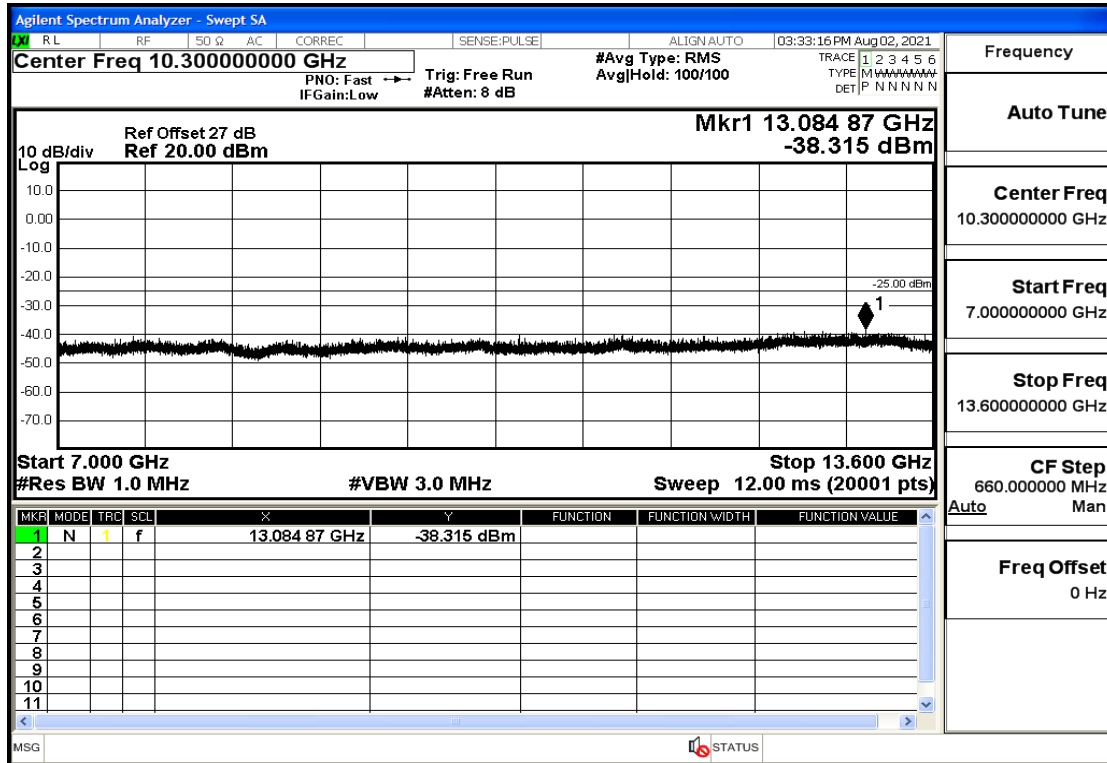
OB38-5-2617.5-Q16-12#HIGH@30MHz-1GHz@Pass



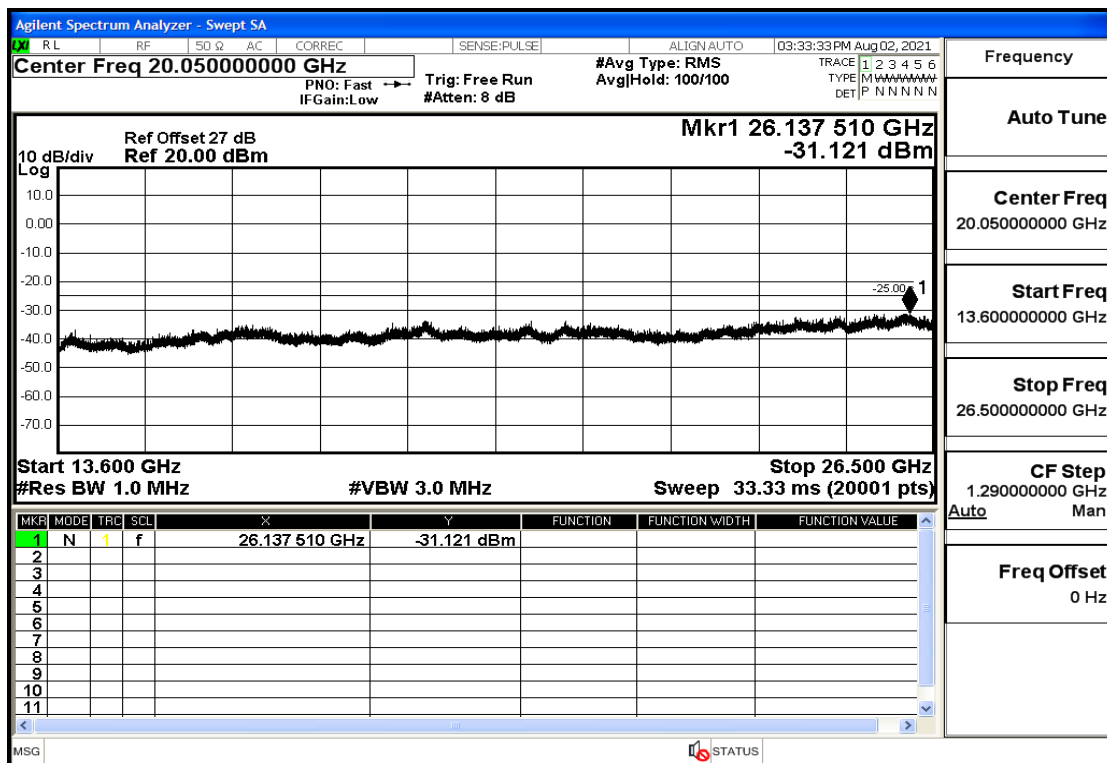
OB38-5-2617.5-Q16-12#HIGH@1GHz-7GHz@Pass



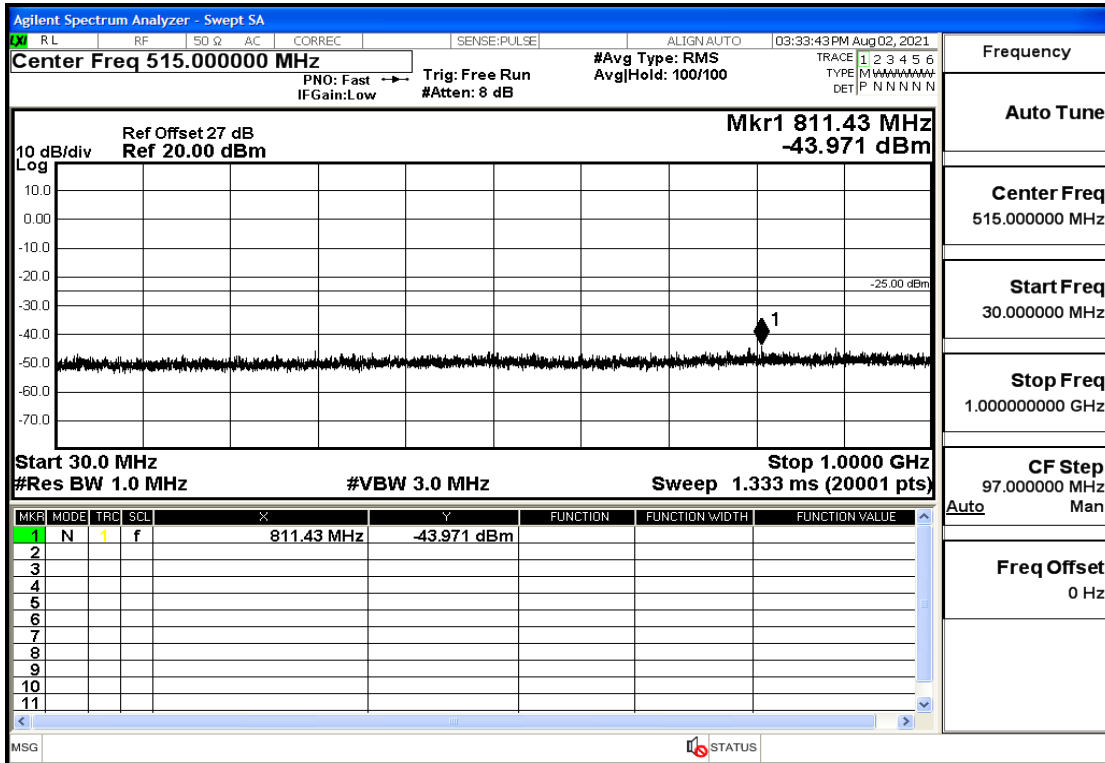
OB38-5-2617.5-Q16-12#HIGH@7GHz-13.6GHz@Pass



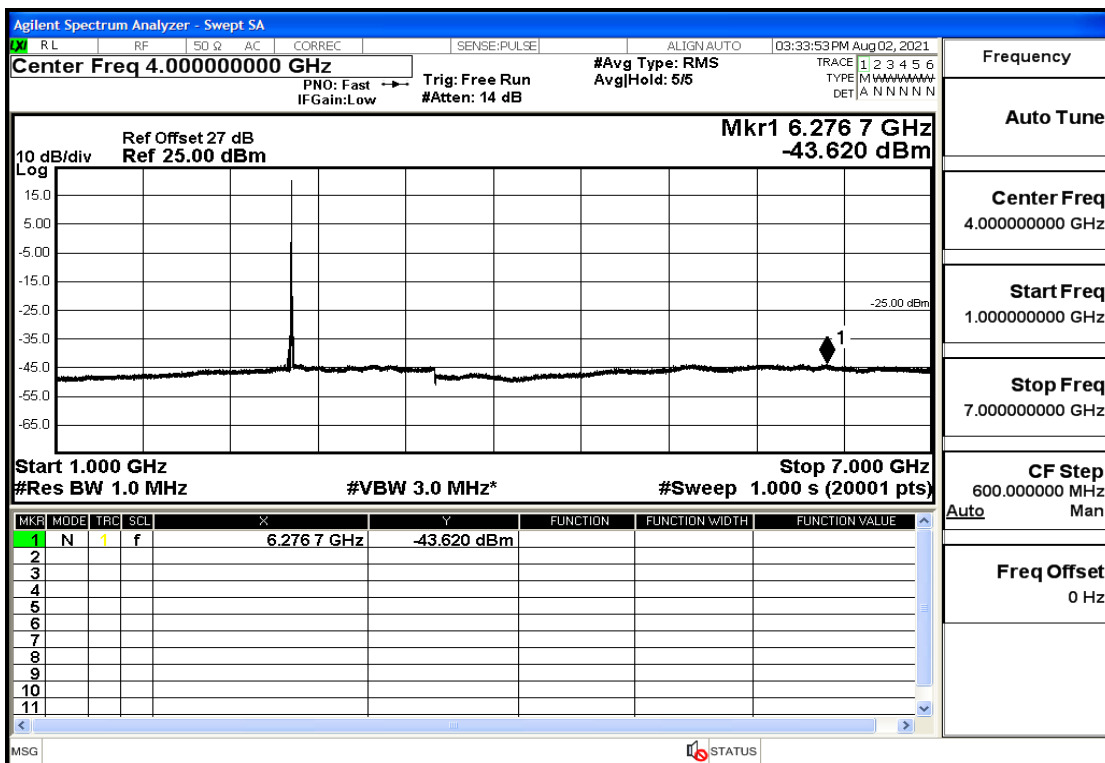
OB38-5-2617.5-Q16-12#HIGH@13.6GHz-26.5GHz@Pass



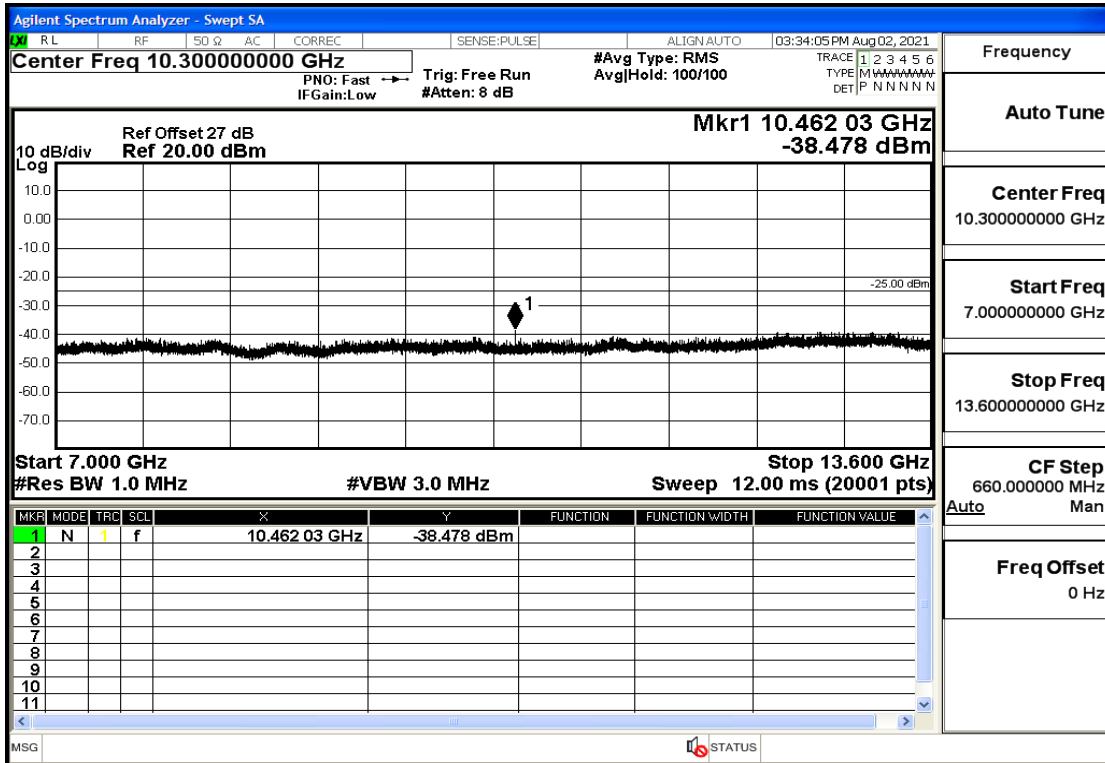
OB38-5-2617.5-Q16-1#LOW@30mHz-1GHz@Pass



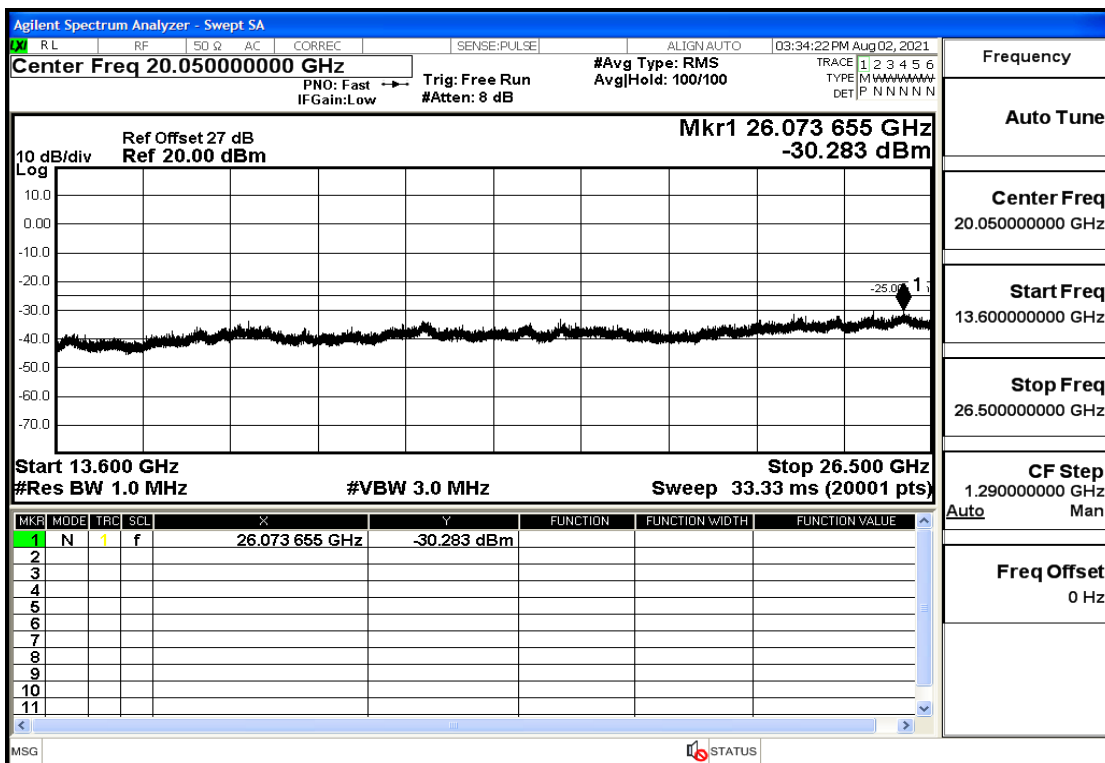
OB38-5-2617.5-Q16-1#LOW@1GHz-7GHz@Pass



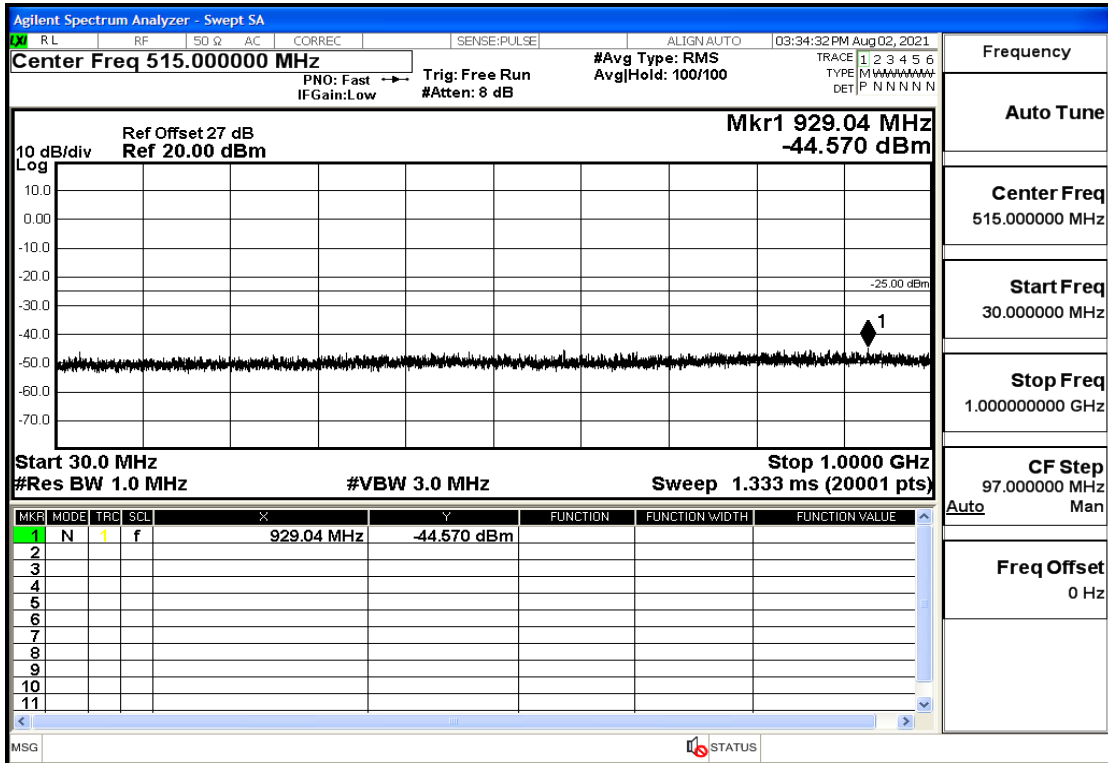
OB38-5-2617.5-Q16-1#LOW@7GHz-13.6GHz@Pass



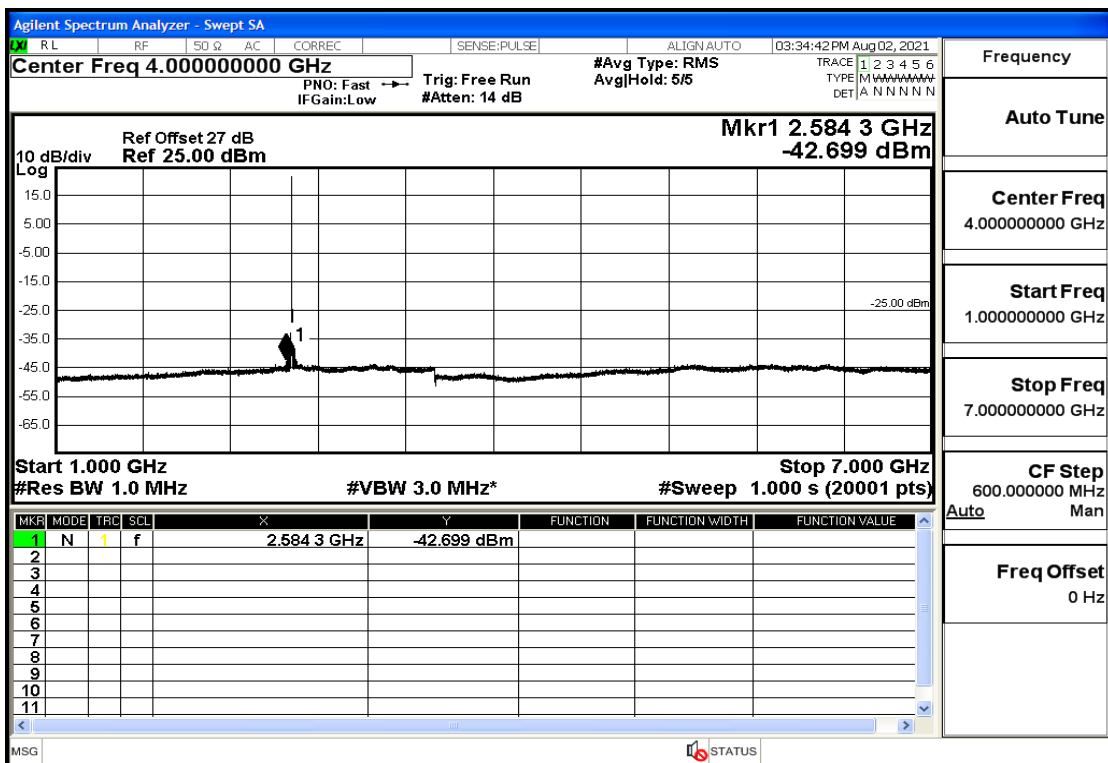
OB38-5-2617.5-Q16-1#LOW@13.6GHz-26.5GHz@Pass



OB38-5-2617.5-Q16-1#MID@30mHz-1GHz@Pass

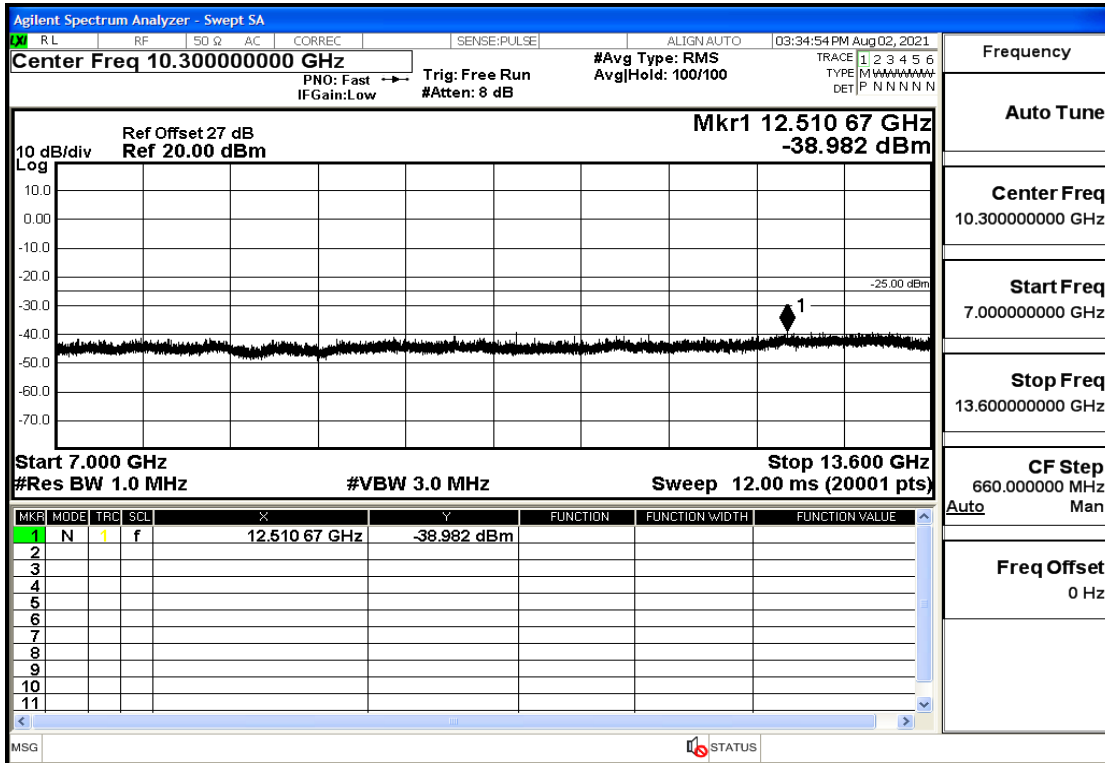


OB38-5-2617.5-Q16-1#MID@1GHz-7GHz@Pass

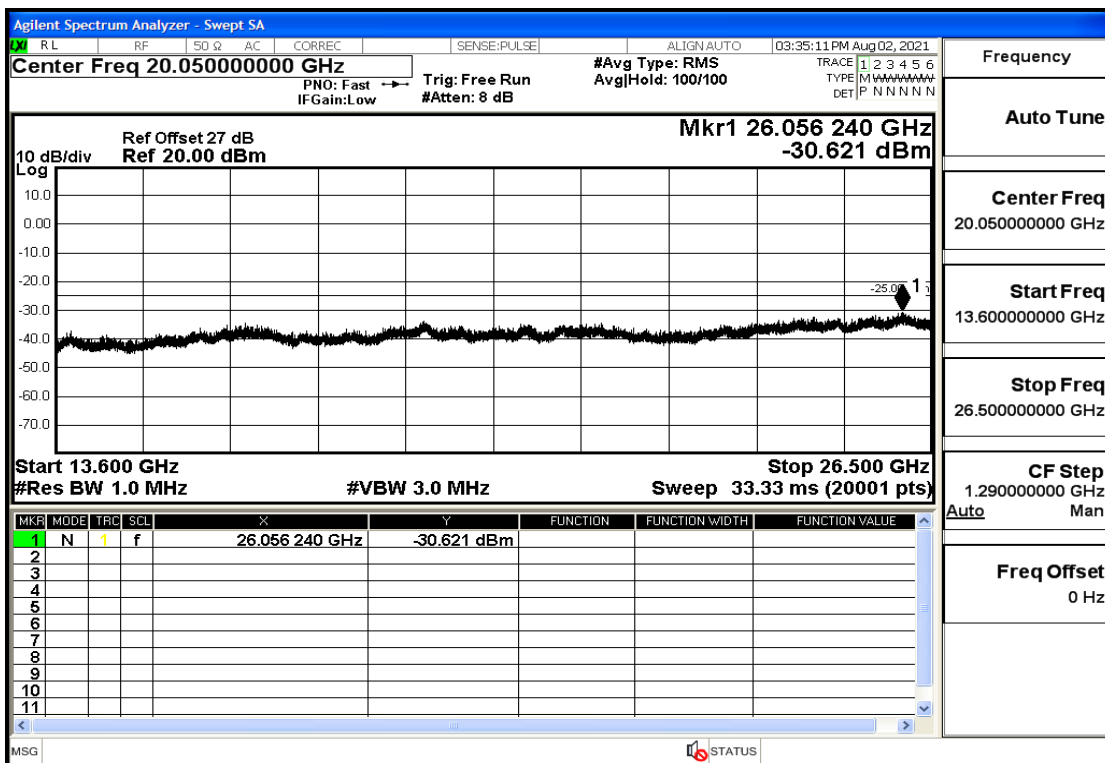




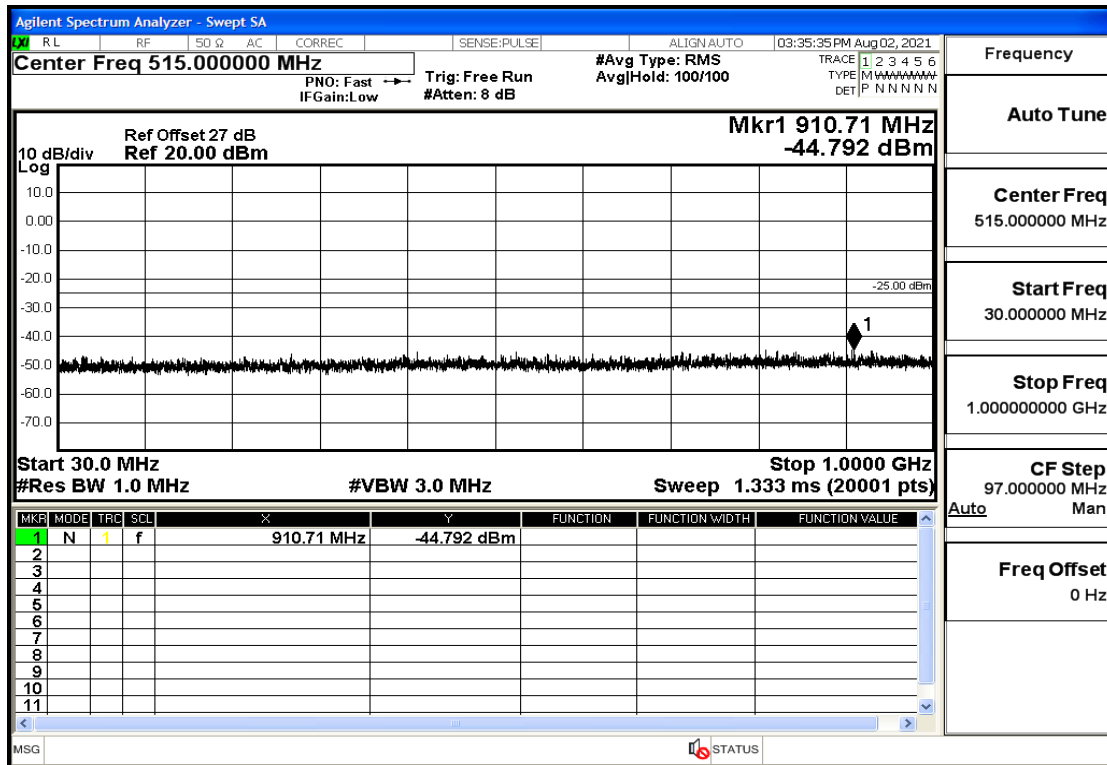
OB38-5-2617.5-Q16-1#MID@7GHz-13.6GHz@Pass



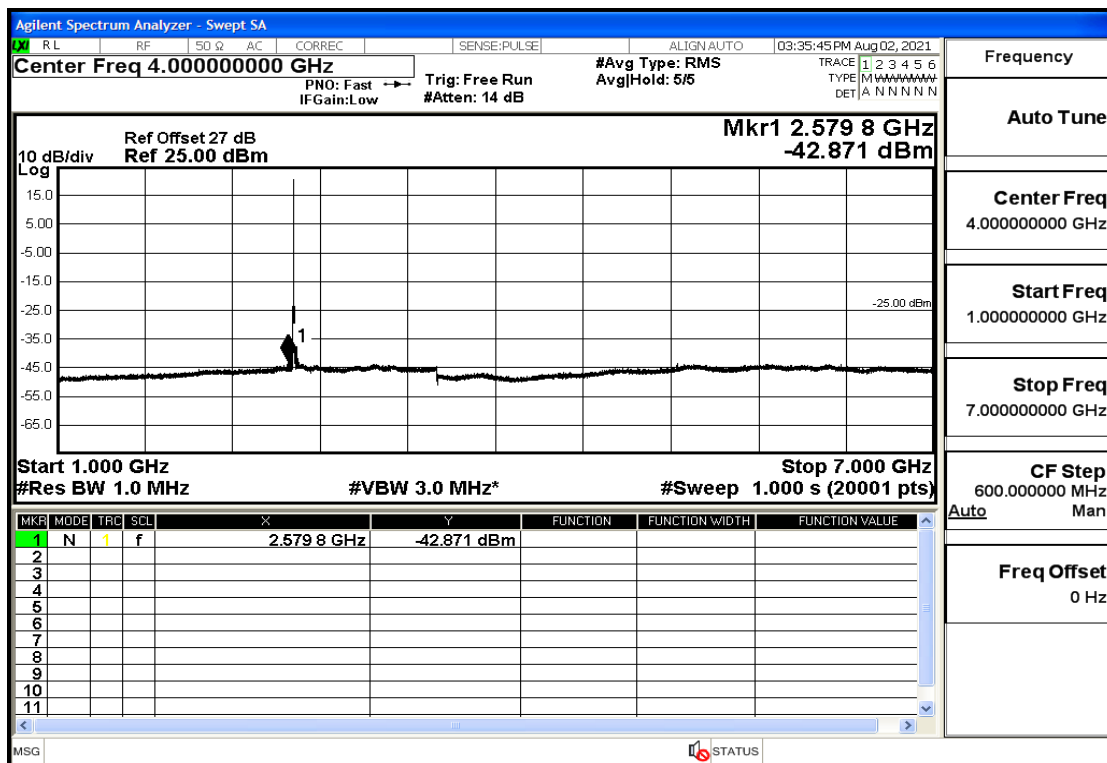
OB38-5-2617.5-Q16-1#MID@13.6GHz-26.5GHz@Pass



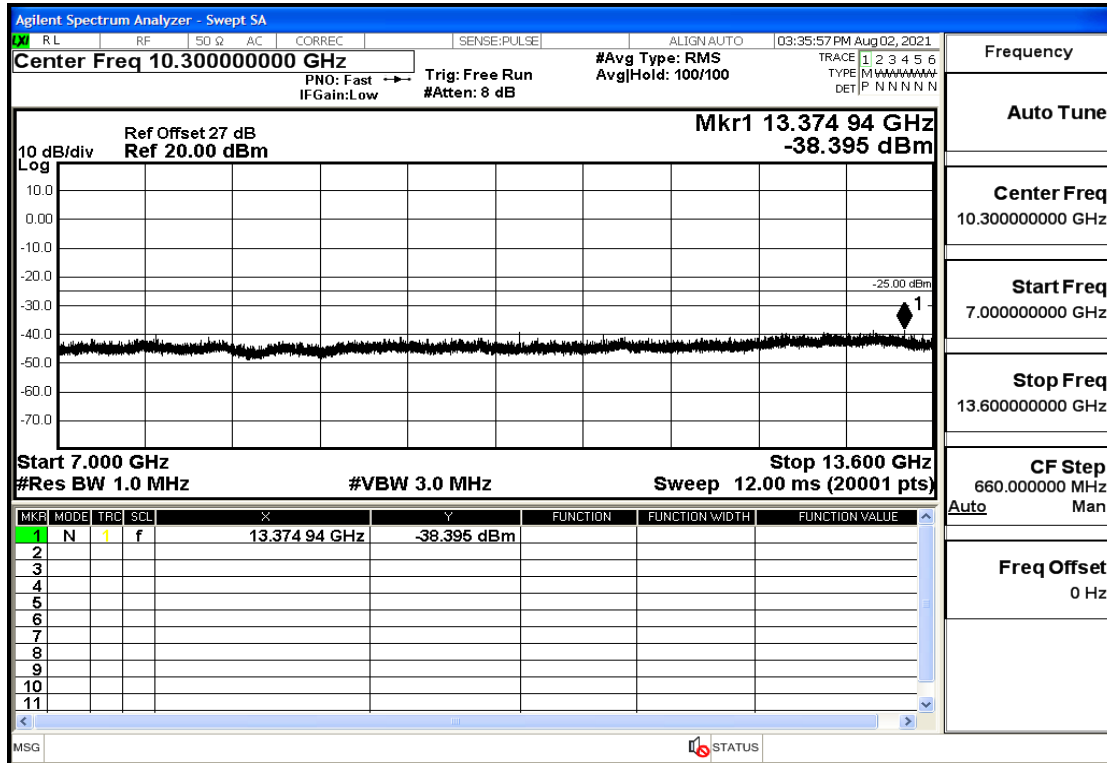
OB38-5-2617.5-Q16-1#HIGH@30mHz-1GHz@Pass



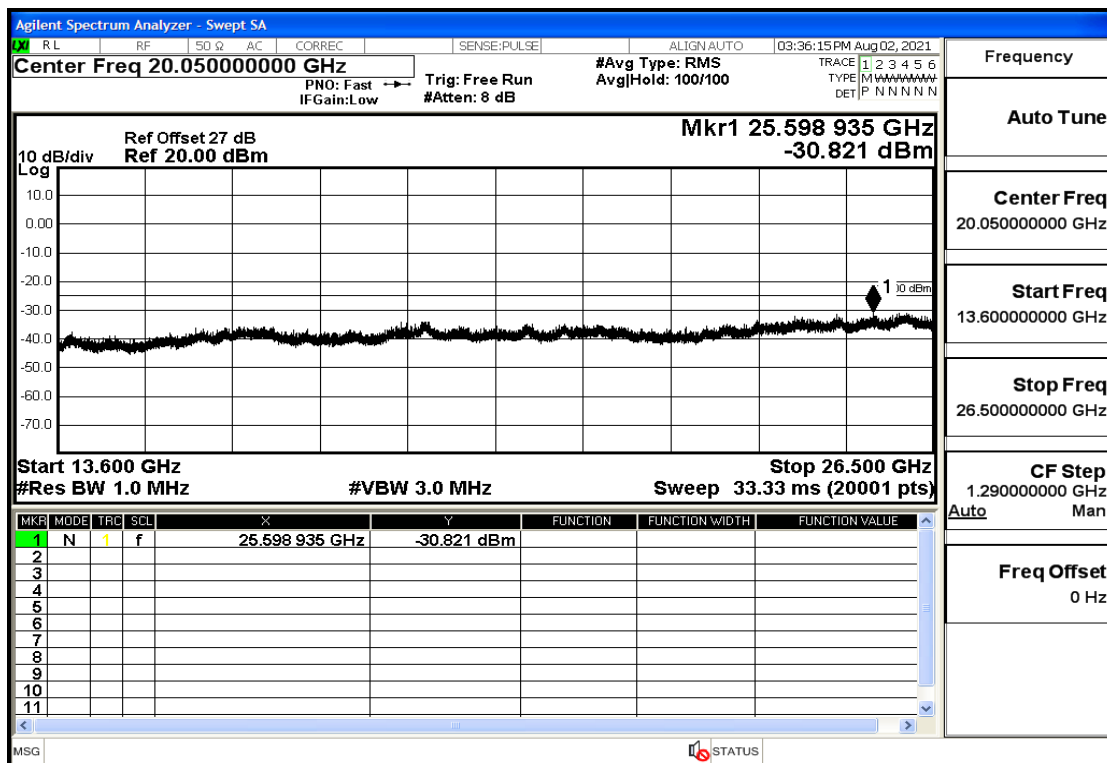
OB38-5-2617.5-Q16-1#HIGH@1GHz-7GHz@Pass



OB38-5-2617.5-Q16-1#HIGH@7GHz-13.6GHz@Pass



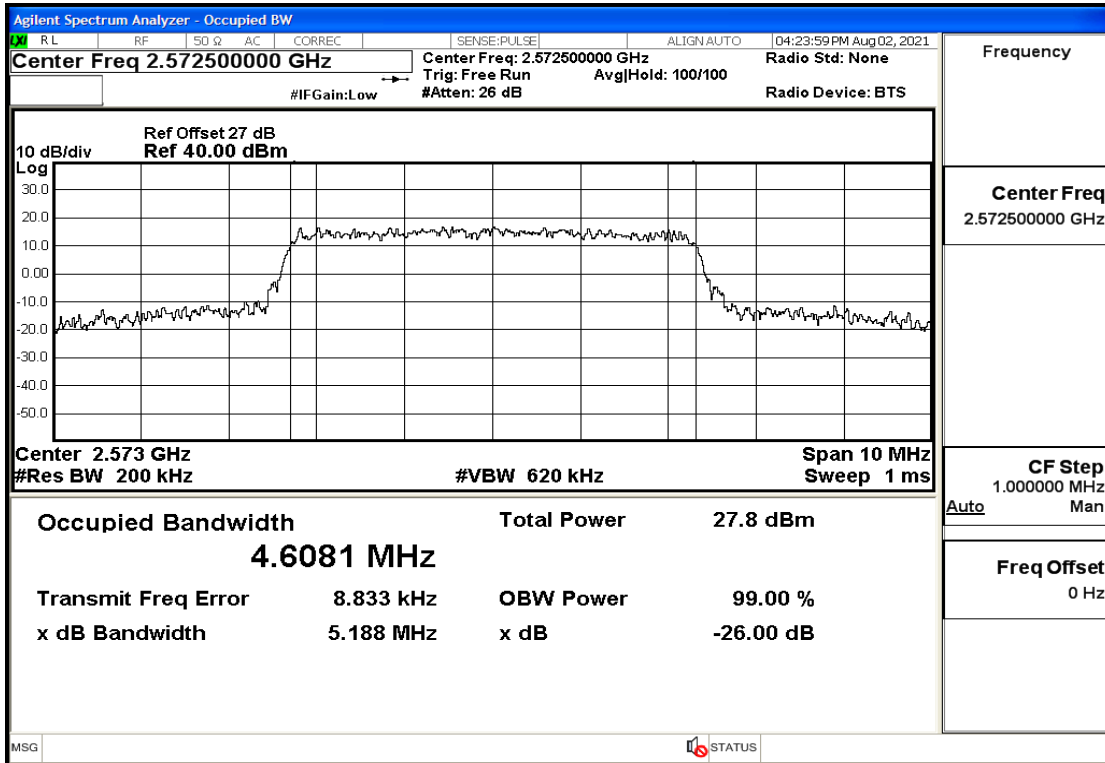
OB38-5-2617.5-Q16-1#HIGH@13.6GHz-26.5GHz@Pass



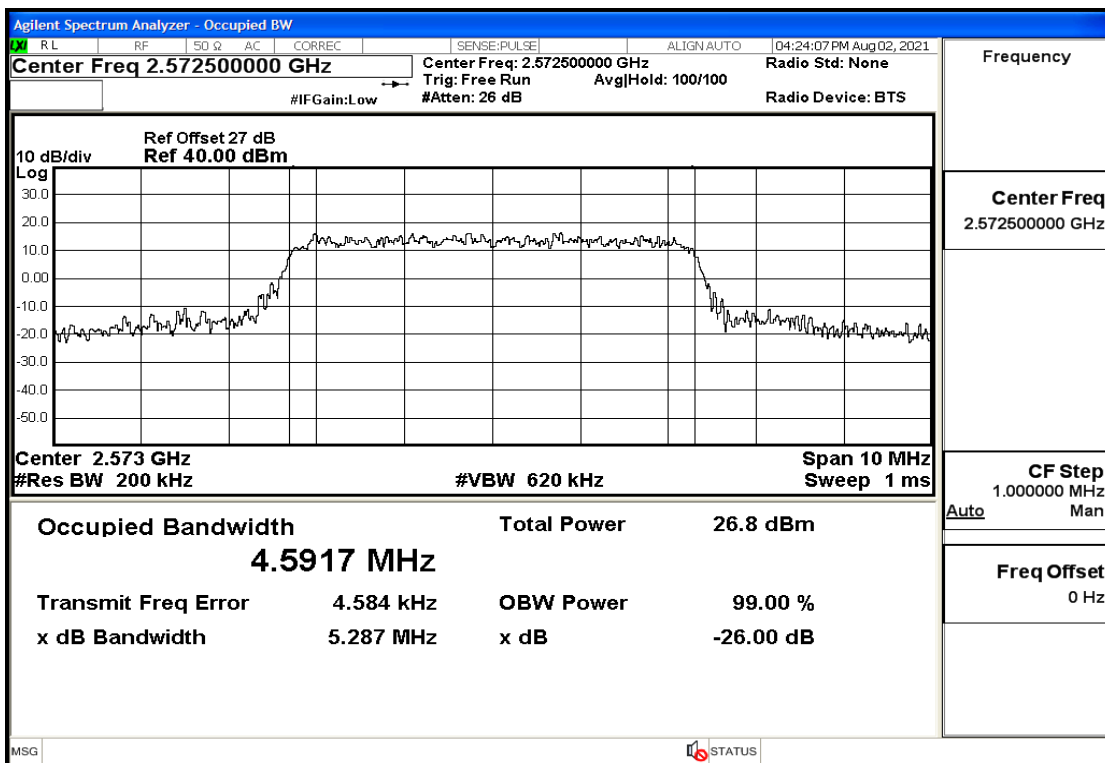
**Emission bandwidth and OBW**

Band	Bandwidth(MHz)	UL Frequency(MHz)	Modulation	RB Size	RB Offset	Occupied Bandwidth(KHz)	Emission Bandwidth(KHz)	Limit
Band38	5	2572.5	QPSK	25	LOW	4608.1	5188	No limit
Band38	5	2572.5	16QAM	25	LOW	4591.7	5287	No limit
Band38	5	2595	QPSK	25	LOW	4589.4	5228	No limit
Band38	5	2595	16QAM	25	LOW	4575.7	5281	No limit
Band38	5	2617.5	QPSK	25	LOW	4566.3	5135	No limit
Band38	5	2617.5	16QAM	25	LOW	4583.5	5196	No limit

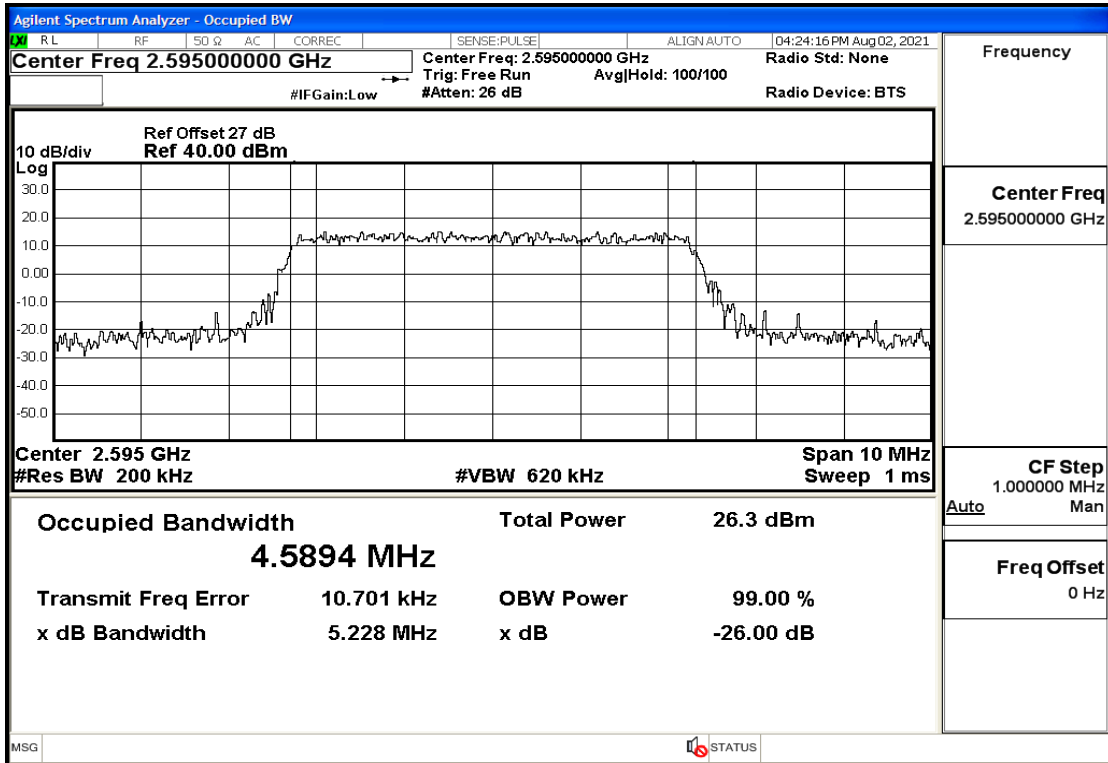
Band38-5-2572.5-QPSK-25#LOW@26dB and 99PCT Bandwidth



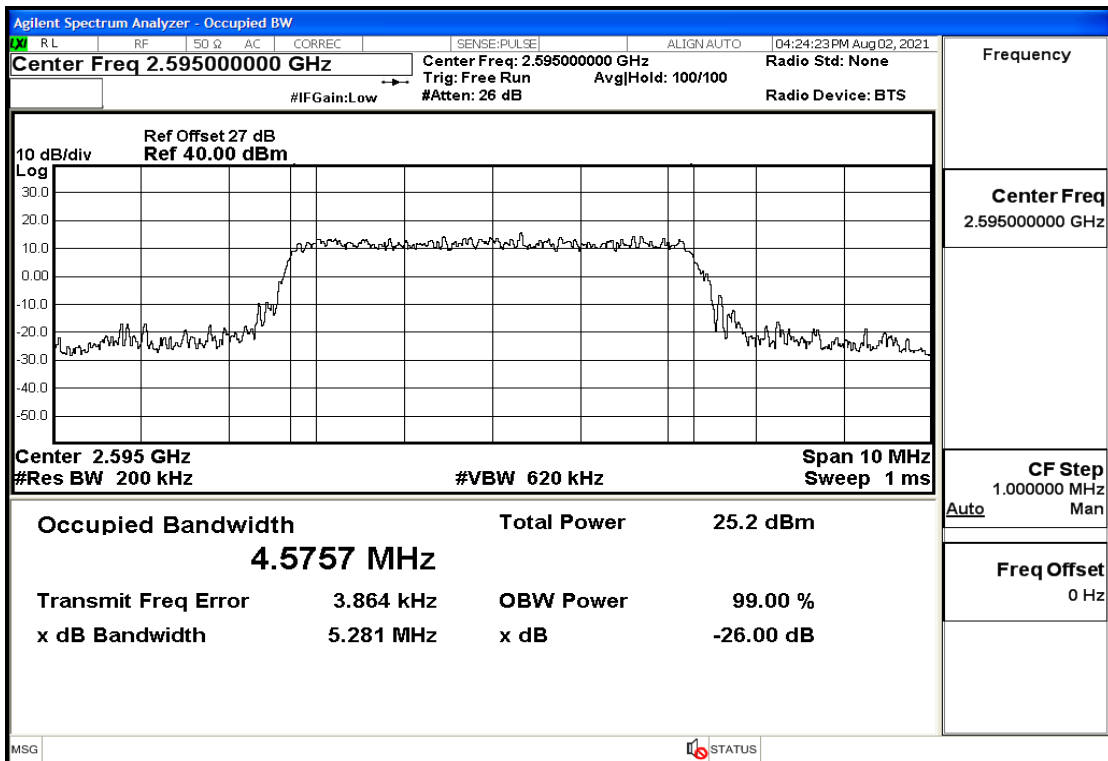
Band38-5-2572.5-16QAM-25#LOW@26dB and 99PCT Bandwidth



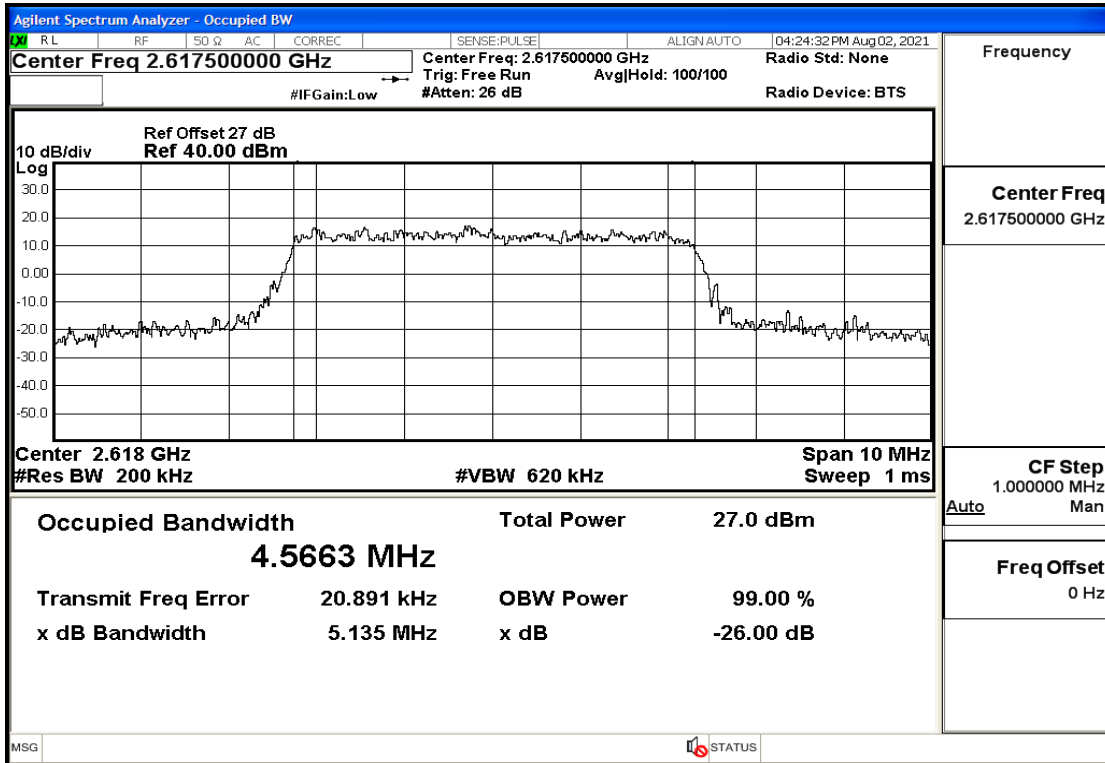
Band38-5-2595-QPSK-25#LOW@26dB and 99PCT Bandwidth



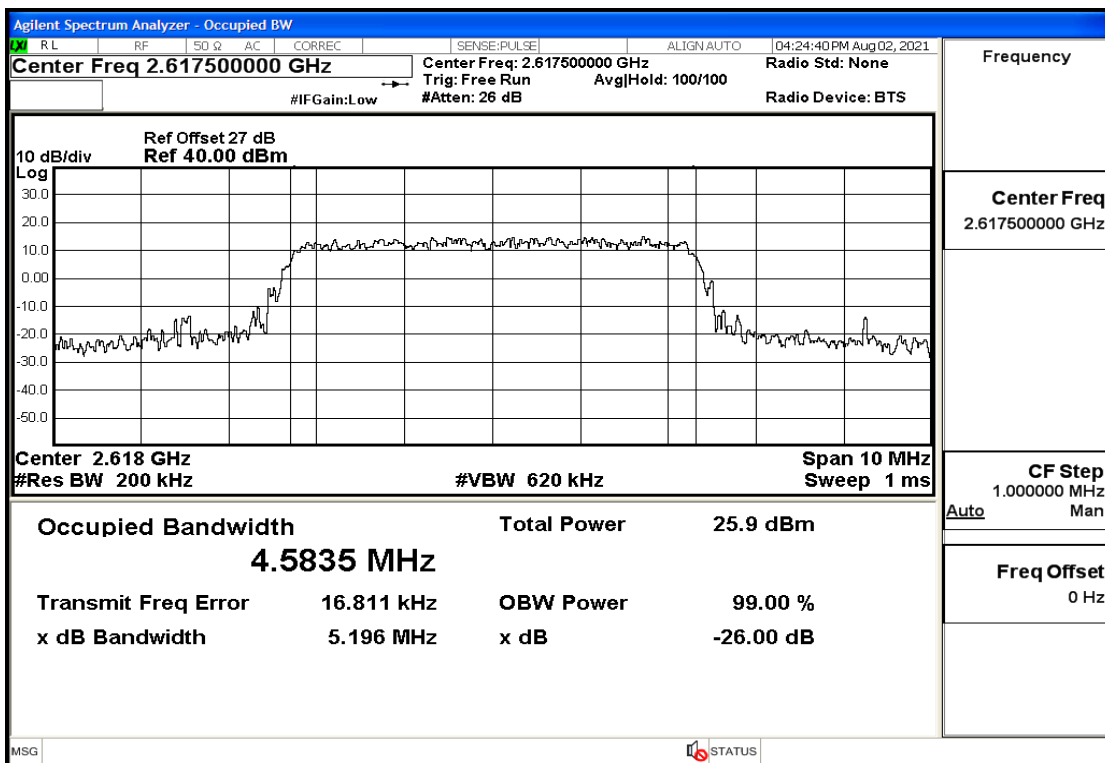
Band38-5-2595-16QAM-25#LOW@26dB and 99PCT Bandwidth



Band38-5-2617.5-QPSK-25#LOW@26dB and 99PCT Bandwidth



Band38-5-2617.5-16QAM-25#LOW@26dB and 99PCT Bandwidth



## Frequency Stability

Test Conditions		LTE Band 38(QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 5MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0657	PASS
40	Normal Voltage	0.0379	
30	Normal Voltage	0.0171	
20(Ref.)	Normal Voltage	0.0276	
10	Normal Voltage	0.0576	
0	Normal Voltage	0.0187	
-10	Normal Voltage	0.0474	
-20	Normal Voltage	0.0355	
-30	Normal Voltage	0.0176	
20	Maximum Voltage	0.0167	
20	Normal Voltage	0.0246	
20	Battery End Point	0.0669	



## 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
Band38	5	2572.5	QPSK	25	LOW	20.84	25.64	4.8	13	1.44	22.28	33	Pass
Band38	5	2572.5	QPSK	12	LOW	20.82	24.99	4.17	13	1.44	22.26	33	Pass
Band38	5	2572.5	QPSK	12	MID	20.8	24.99	4.19	13	1.44	22.24	33	Pass
Band38	5	2572.5	QPSK	12	HIGH	20.66	24.83	4.17	13	1.44	22.1	33	Pass
Band38	5	2572.5	QPSK	1	LOW	21.82	24.63	2.81	13	1.44	23.26	33	Pass
Band38	5	2572.5	QPSK	1	MID	21.83	24.5	2.67	13	1.44	23.27	33	Pass
Band38	5	2572.5	QPSK	1	HIGH	21.44	24.5	3.06	13	1.44	22.88	33	Pass
Band38	5	2572.5	16QAM	25	LOW	19.86	25.19	5.33	13	1.44	21.3	33	Pass
Band38	5	2572.5	16QAM	12	LOW	19.87	24.73	4.86	13	1.44	21.31	33	Pass
Band38	5	2572.5	16QAM	12	MID	19.88	24.89	5.01	13	1.44	21.32	33	Pass
Band38	5	2572.5	16QAM	12	HIGH	19.78	24.86	5.08	13	1.44	21.22	33	Pass
Band38	5	2572.5	16QAM	1	LOW	20.66	24.59	3.93	13	1.44	22.1	33	Pass
Band38	5	2572.5	16QAM	1	MID	20.7	24.42	3.72	13	1.44	22.14	33	Pass
Band38	5	2572.5	16QAM	1	HIGH	20.38	24.42	4.04	13	1.44	21.82	33	Pass
Band38	5	2595	QPSK	25	LOW	19.66	25.76	6.1	13	1.44	21.1	33	Pass
Band38	5	2595	QPSK	12	LOW	19.73	25.11	5.38	13	1.44	21.17	33	Pass
Band38	5	2595	QPSK	12	MID	19.73	25.1	5.37	13	1.44	21.17	33	Pass
Band38	5	2595	QPSK	12	HIGH	19.71	25.08	5.37	13	1.44	21.15	33	Pass
Band38	5	2595	QPSK	1	LOW	20.79	24.79	4	13	1.44	22.23	33	Pass
Band38	5	2595	QPSK	1	MID	20.9	24.83	3.93	13	1.44	22.34	33	Pass
Band38	5	2595	QPSK	1	HIGH	20.7	24.92	4.22	13	1.44	22.14	33	Pass
Band38	5	2595	16QAM	25	LOW	18.53	25.13	6.6	13	1.44	19.97	33	Pass
Band38	5	2595	16QAM	12	LOW	18.72	25.02	6.3	13	1.44	20.16	33	Pass
Band38	5	2595	16QAM	12	MID	18.75	25.05	6.3	13	1.44	20.19	33	Pass
Band38	5	2595	16QAM	12	HIGH	18.69	25.18	6.49	13	1.44	20.13	33	Pass
Band38	5	2595	16QAM	1	LOW	19.9	24.63	4.73	13	1.44	21.34	33	Pass
Band38	5	2595	16QAM	1	MID	20.05	24.71	4.66	13	1.44	21.49	33	Pass
Band38	5	2595	16QAM	1	HIGH	19.75	24.62	4.87	13	1.44	21.19	33	Pass
Band38	5	2617.5	QPSK	25	LOW	20.21	25.82	5.61	13	1.44	21.65	33	Pass
Band38	5	2617.5	QPSK	12	LOW	20.05	25.73	5.68	13	1.44	21.49	33	Pass
Band38	5	2617.5	QPSK	12	MID	20.07	25.73	5.66	13	1.44	21.51	33	Pass
Band38	5	2617.5	QPSK	12	HIGH	20.22	26.04	5.82	13	1.44	21.66	33	Pass
Band38	5	2617.5	QPSK	1	LOW	21.17	25.21	4.04	13	1.44	22.61	33	Pass
Band38	5	2617.5	QPSK	1	MID	21.53	25.28	3.75	13	1.44	22.97	33	Pass
Band38	5	2617.5	QPSK	1	HIGH	21.43	25.38	3.95	13	1.44	22.87	33	Pass
Band38	5	2617.5	16QAM	25	LOW	19.21	25.45	6.24	13	1.44	20.65	33	Pass
Band38	5	2617.5	16QAM	12	LOW	19.07	25.51	6.44	13	1.44	20.51	33	Pass
Band38	5	2617.5	16QAM	12	MID	19.06	25.19	6.13	13	1.44	20.5	33	Pass
Band38	5	2617.5	16QAM	12	HIGH	19.21	25.36	6.15	13	1.44	20.65	33	Pass
Band38	5	2617.5	16QAM	1	LOW	20.02	24.94	4.92	13	1.44	21.46	33	Pass

Band38	5	2617.5	16QAM	1	MID	20.38	25.05	4.67	13	1.44	21.82	33	Pass
Band38	5	2617.5	16QAM	1	HIGH	20.25	25.08	4.83	13	1.44	21.69	33	Pass