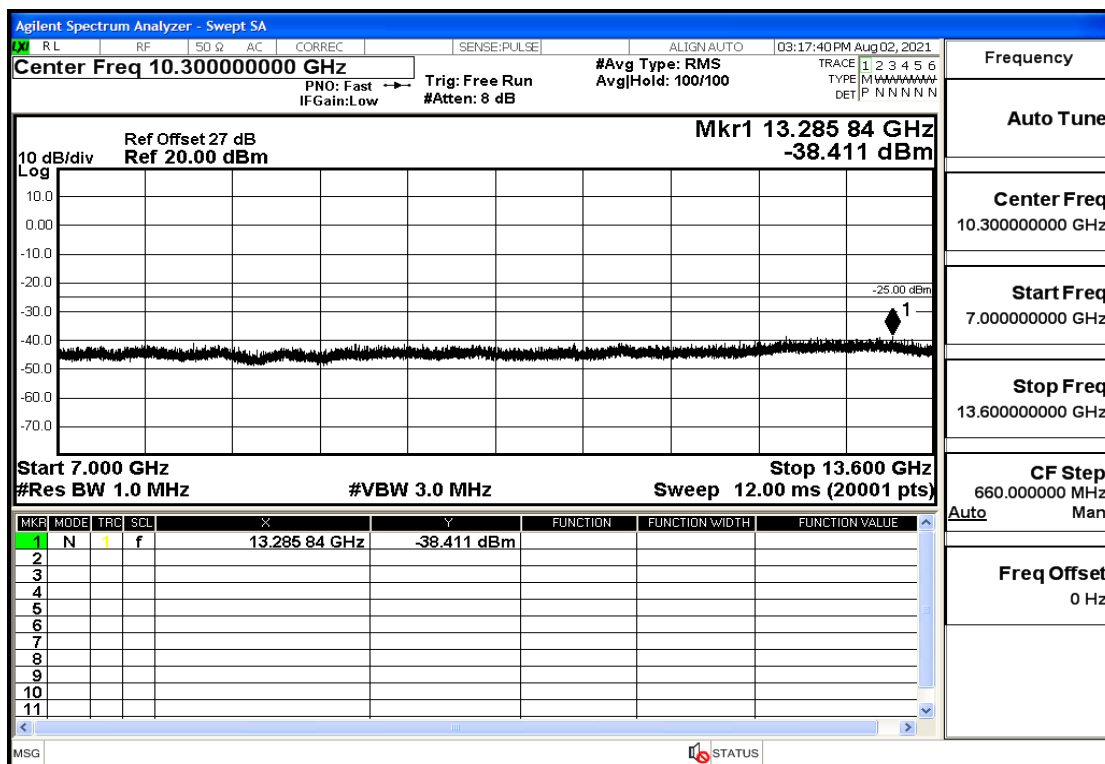
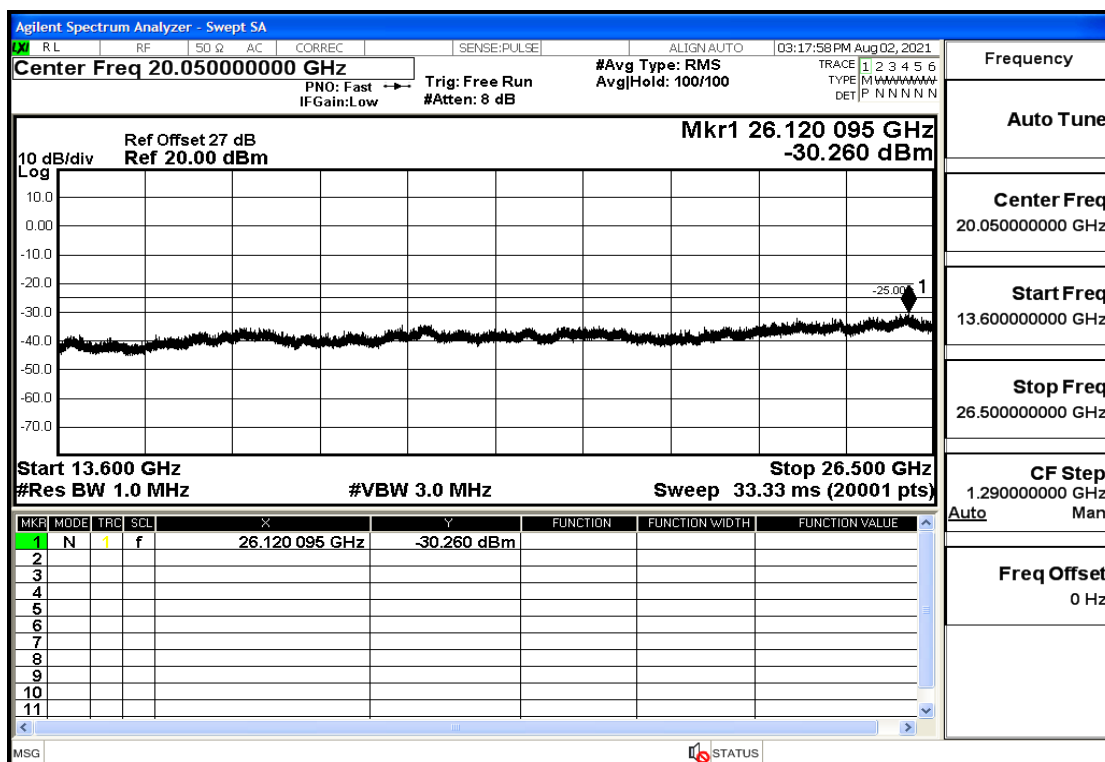


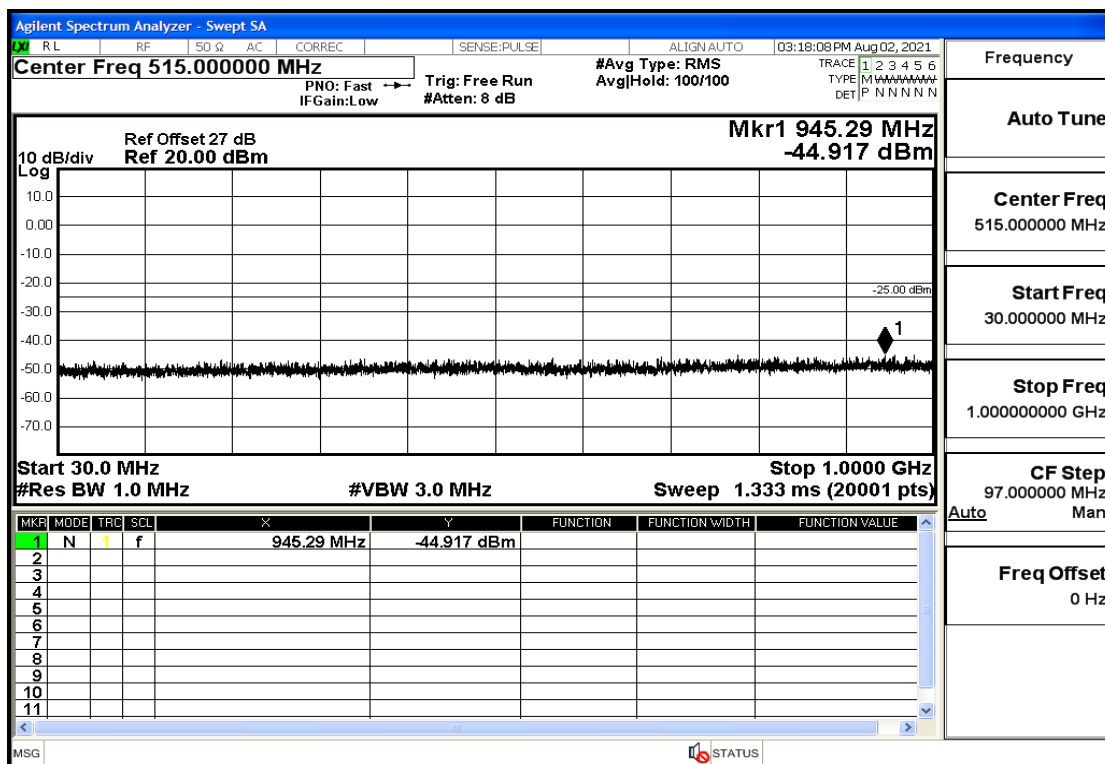
OB38-5-2595-Q16-12#HIGH@7GHz-13.6GHz@Pass



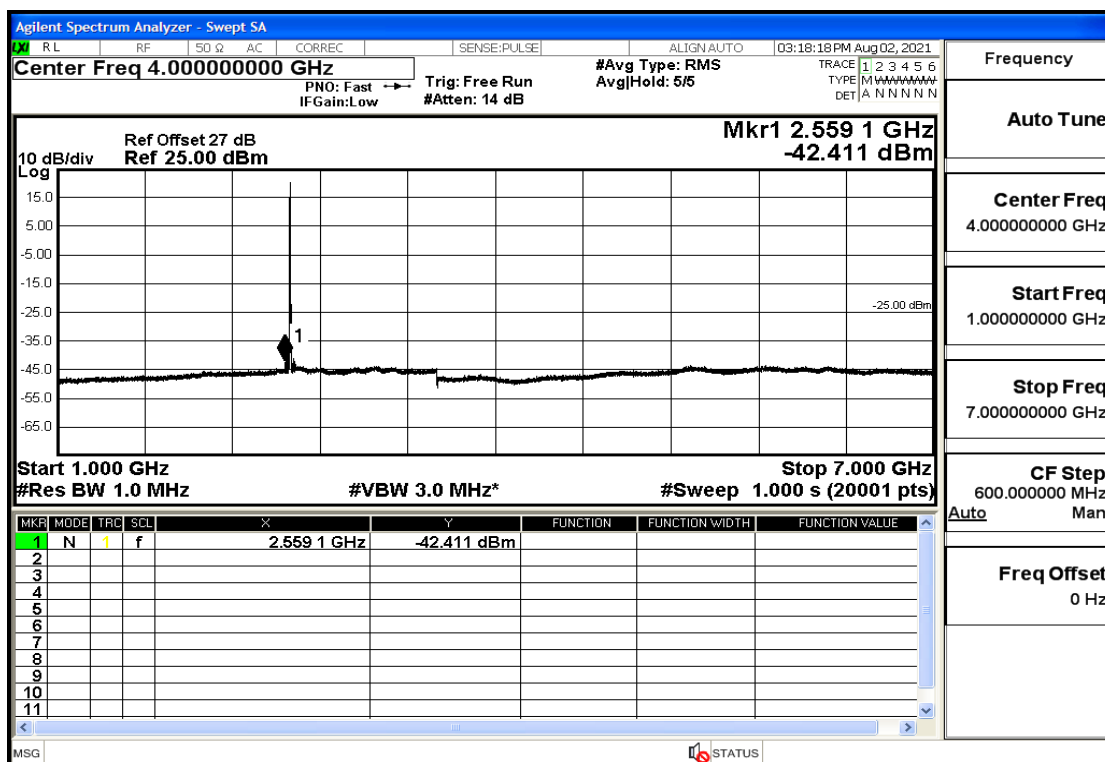
OB38-5-2595-Q16-12#HIGH@13.6GHz-26.5GHz@Pass



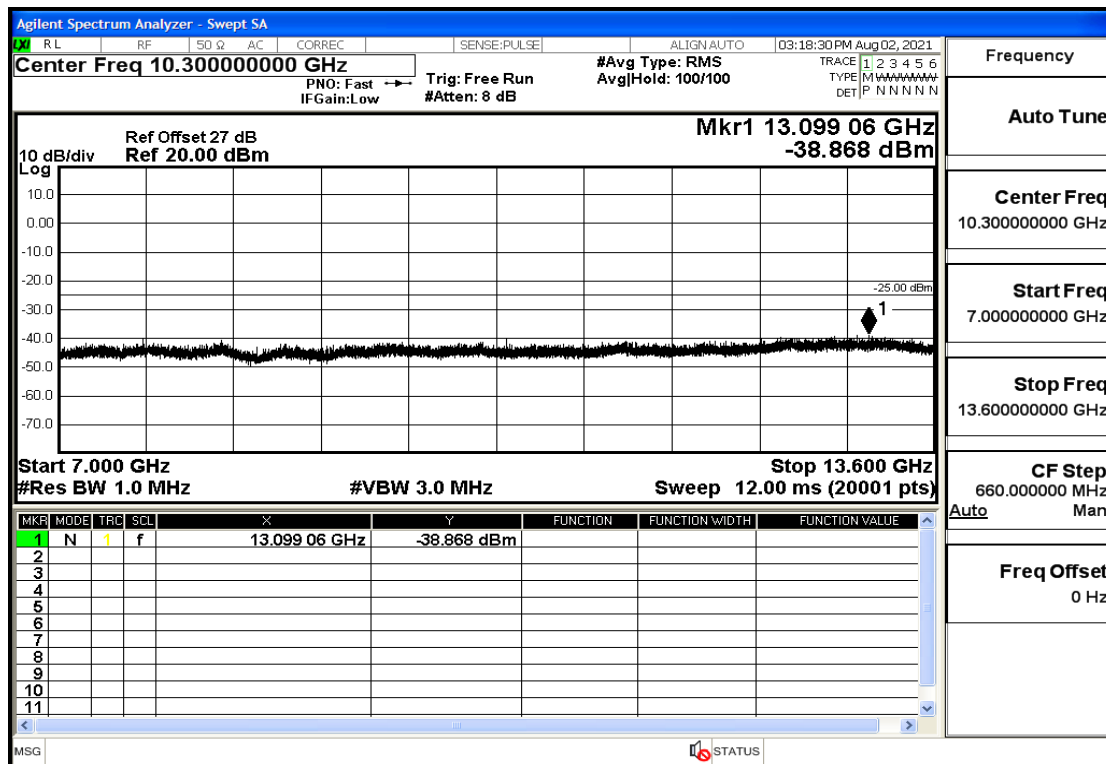
OB38-5-2595-Q16-1#LOW@30mHz-1GHz@Pass



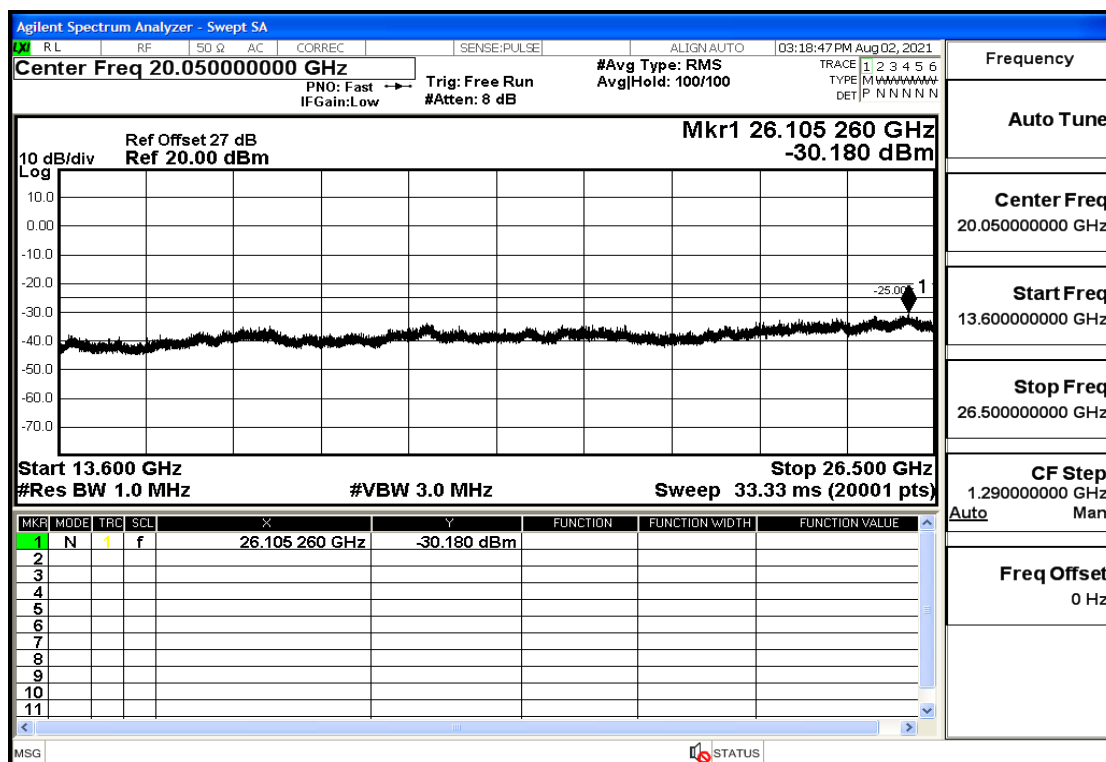
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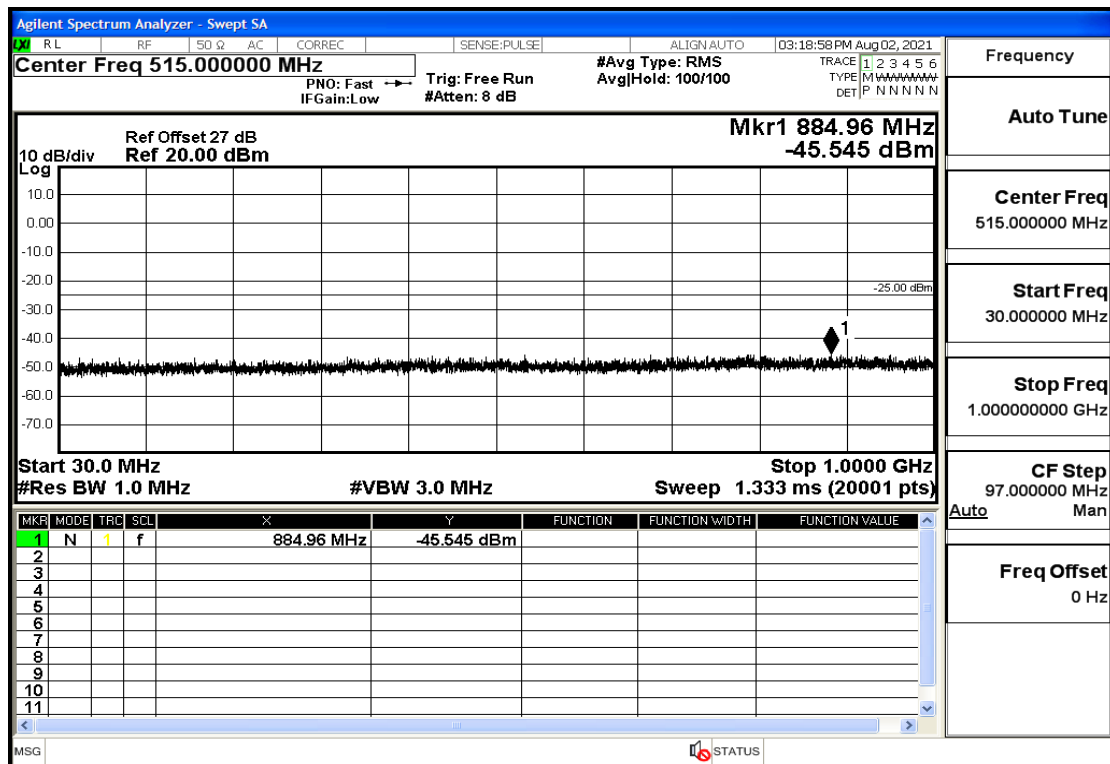
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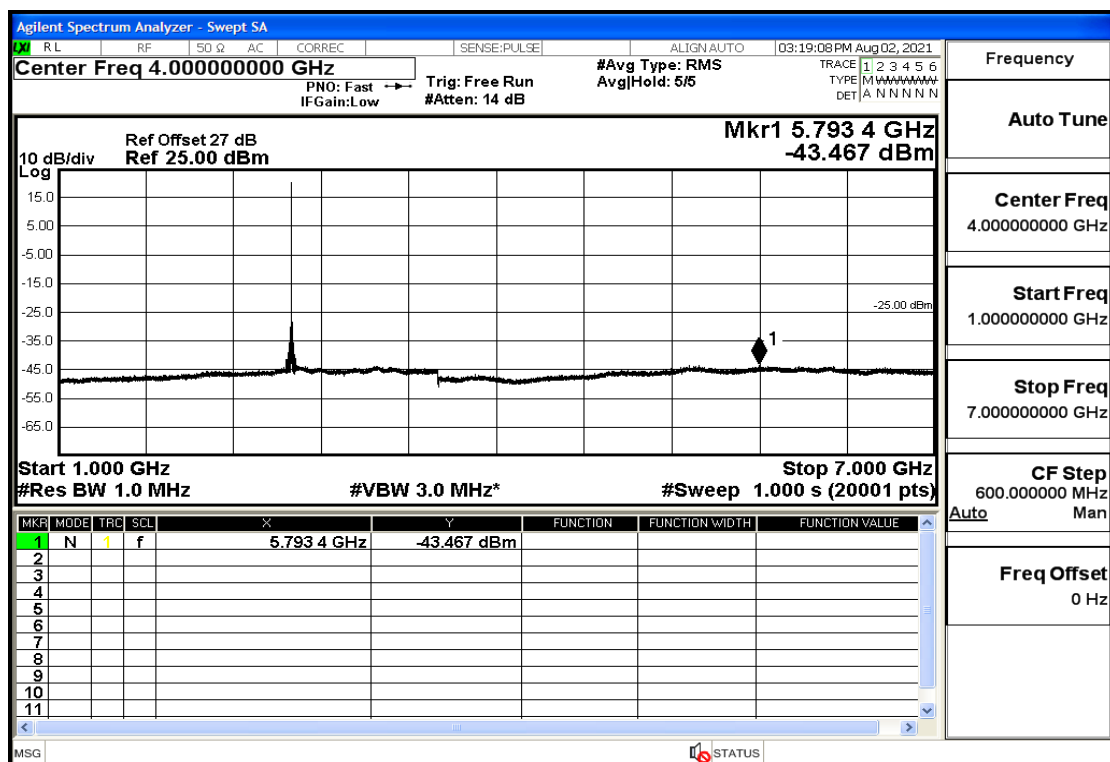
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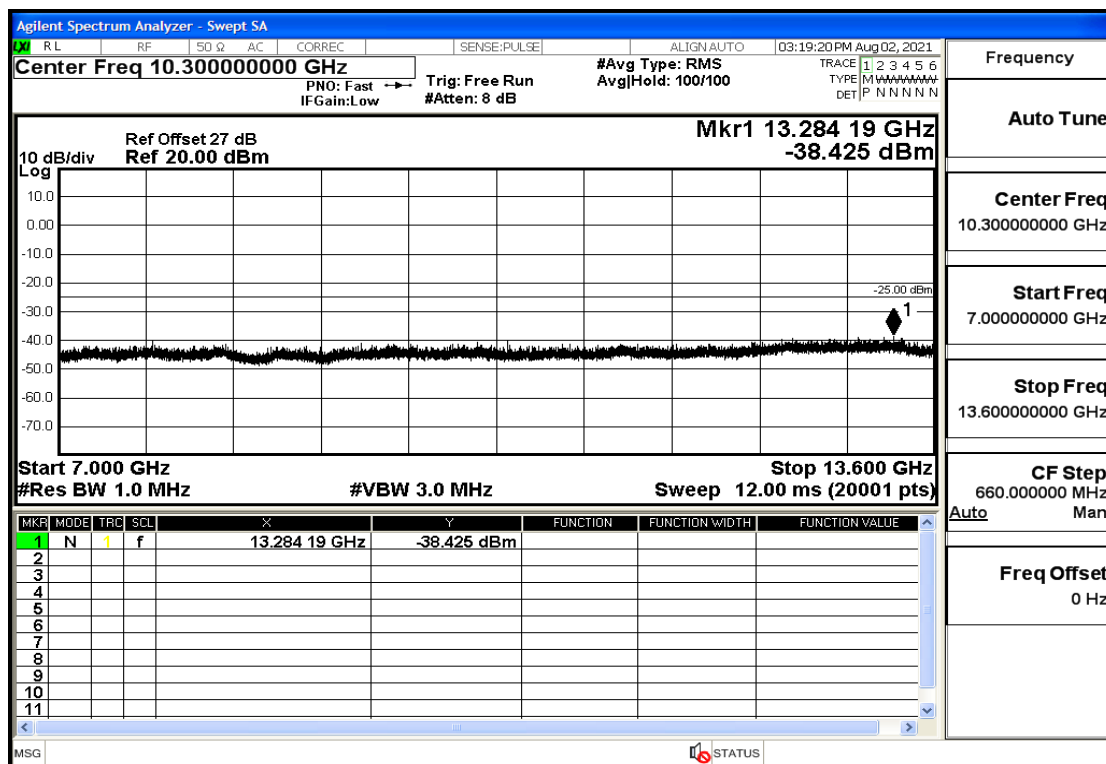
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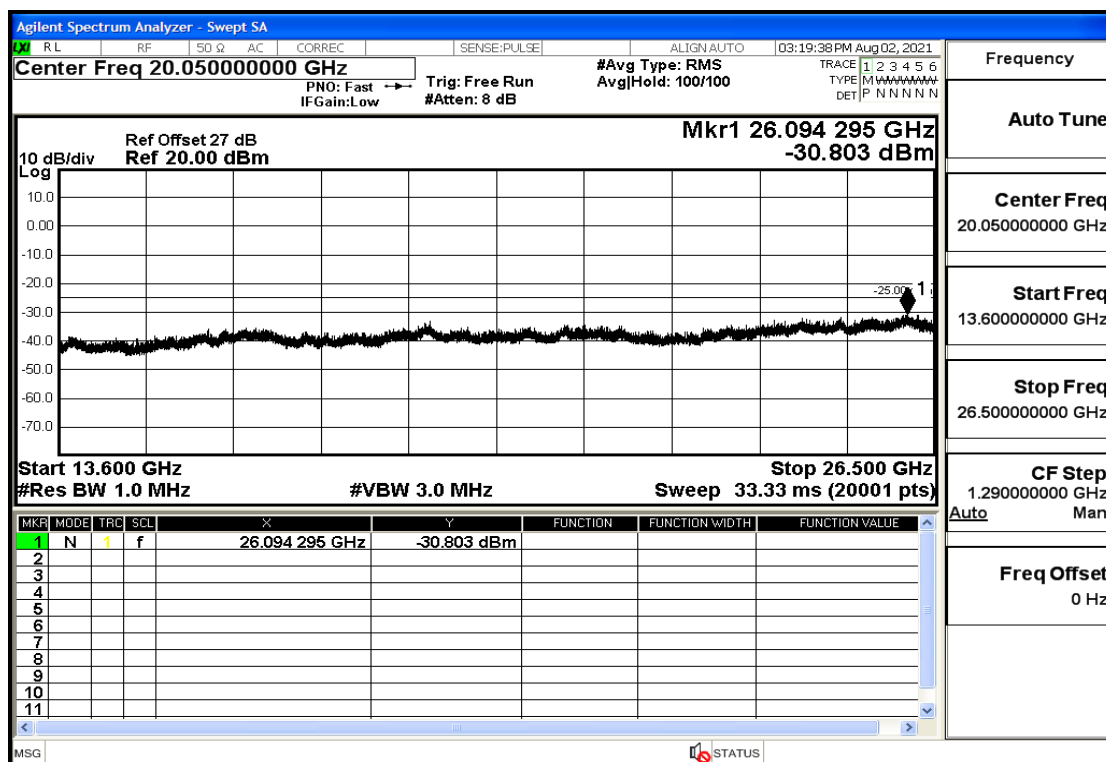
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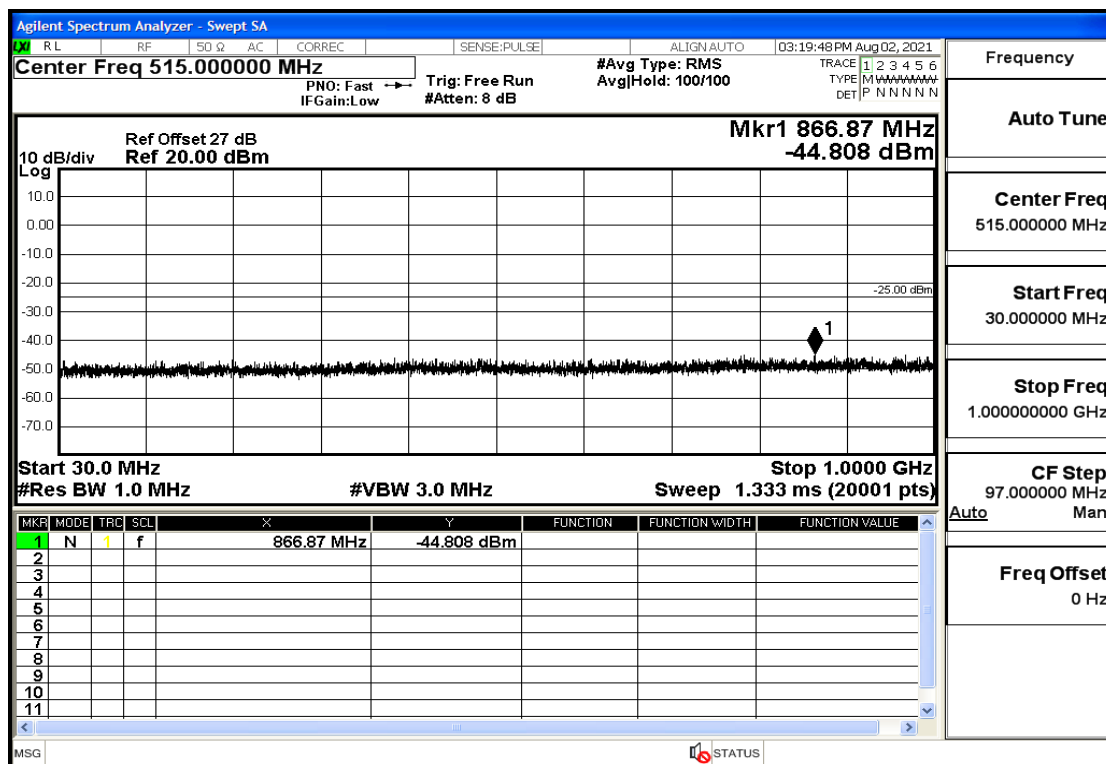
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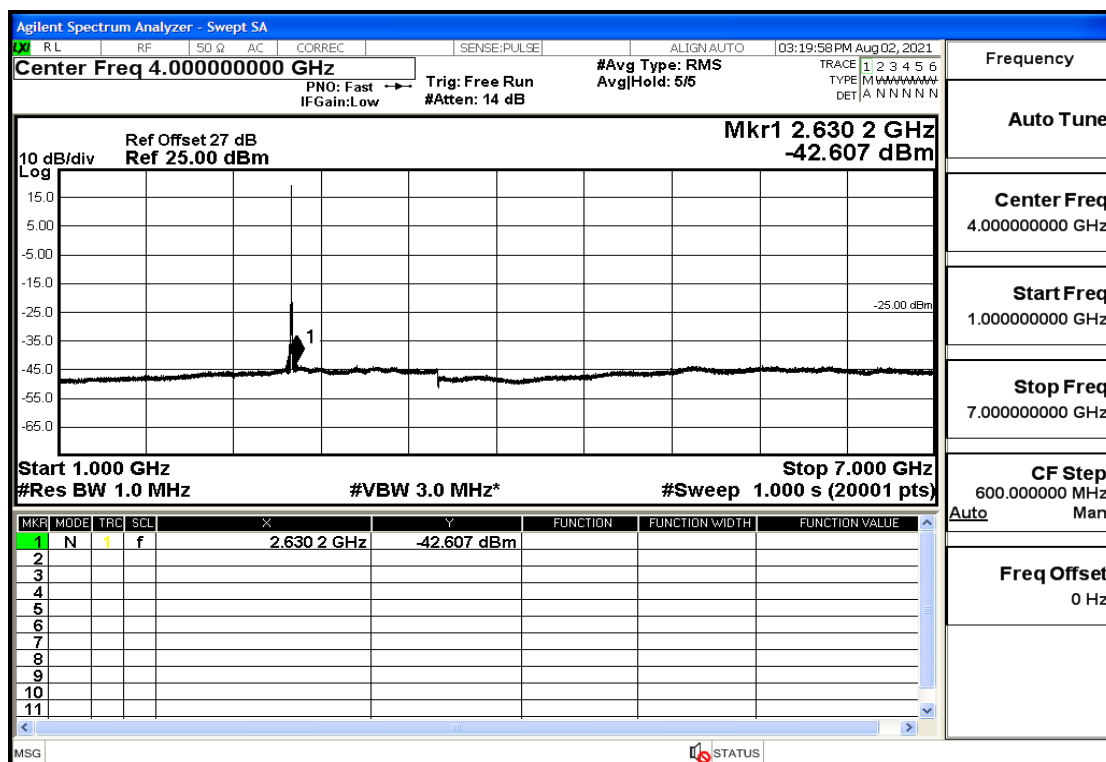
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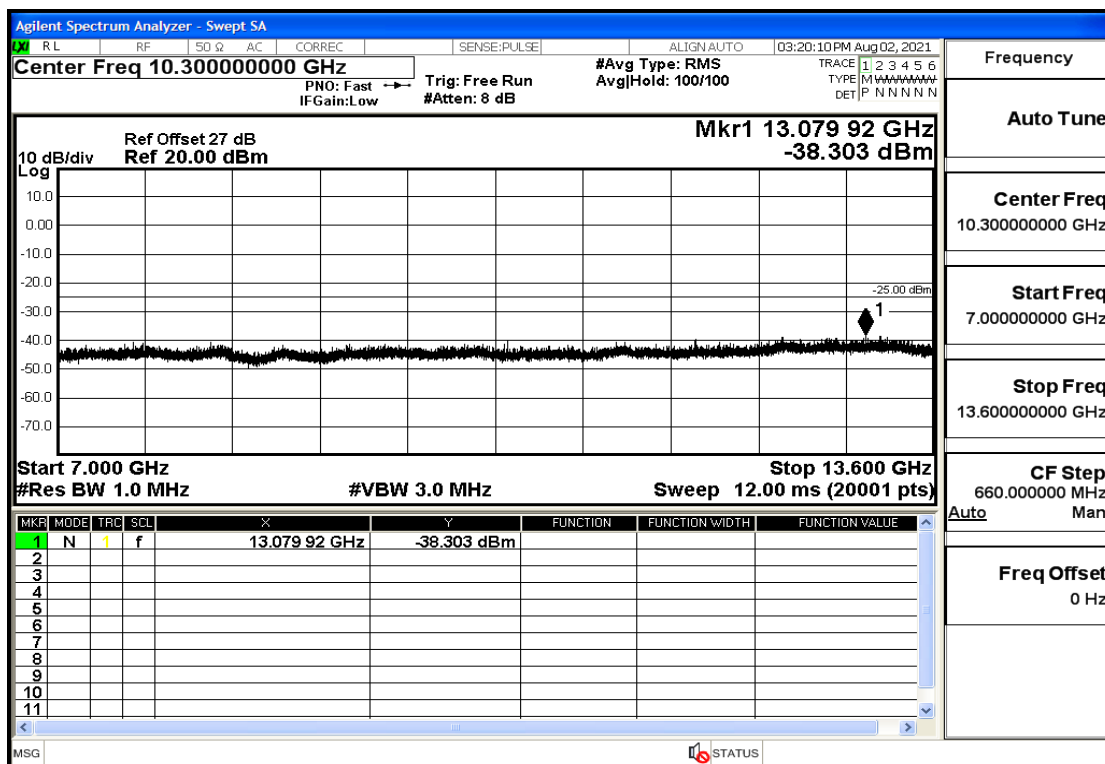
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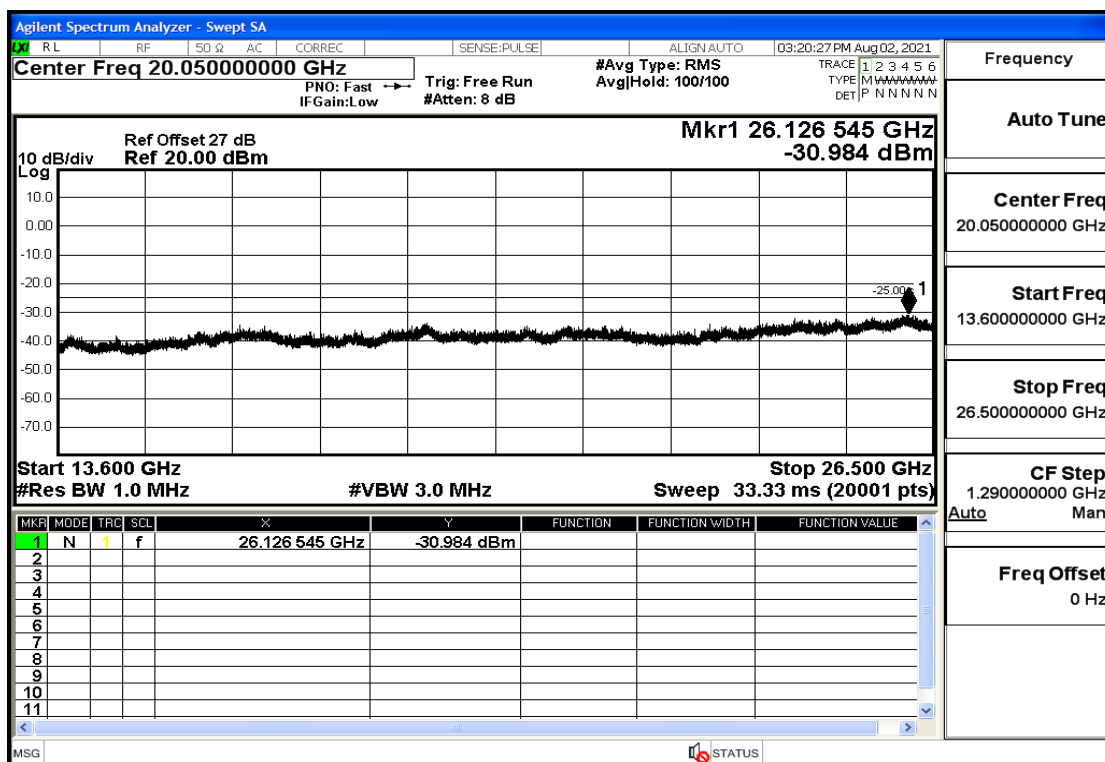
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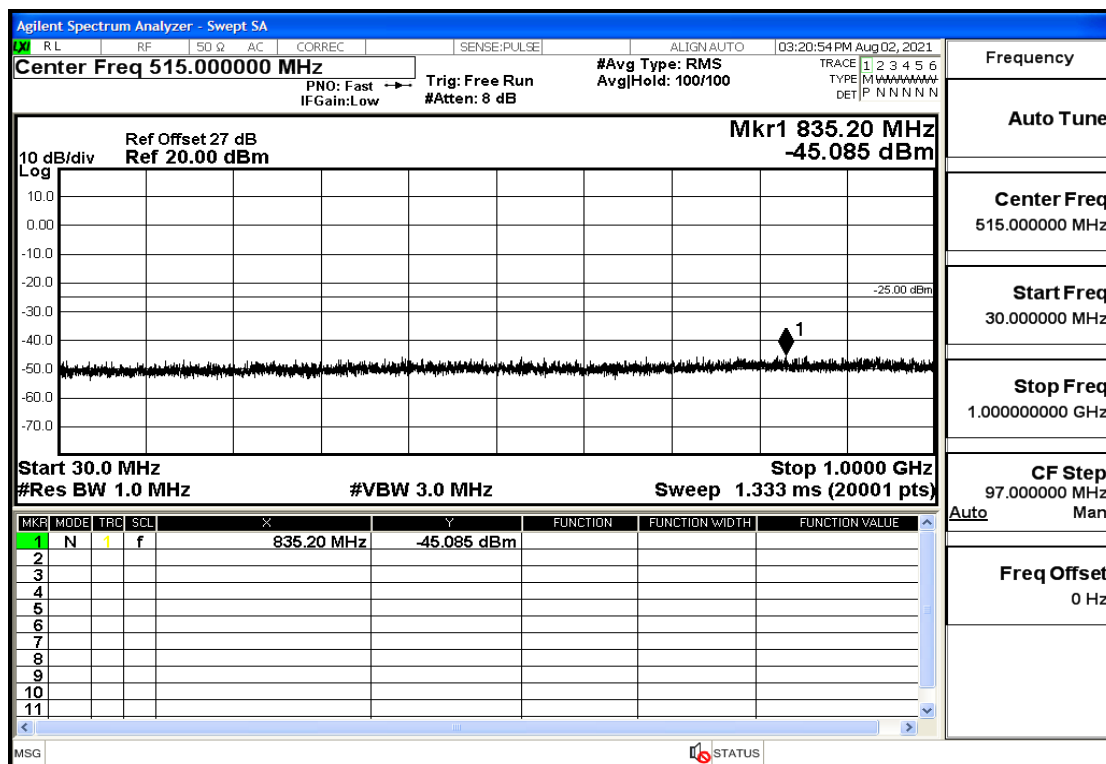
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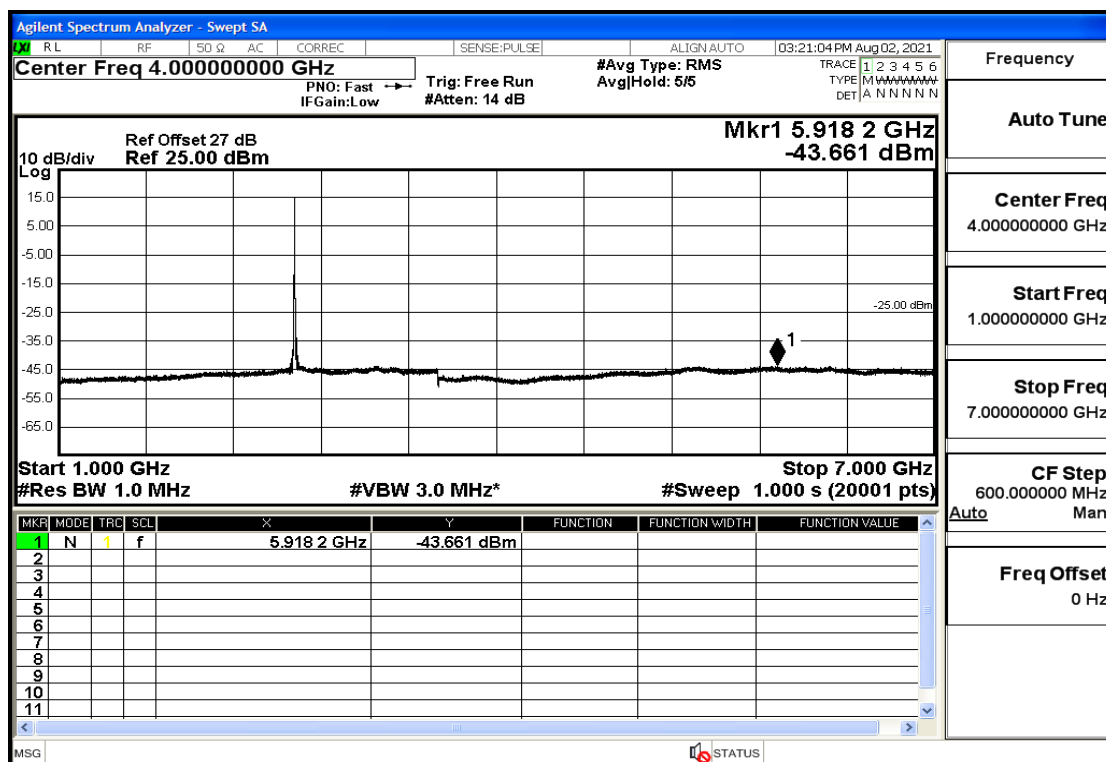
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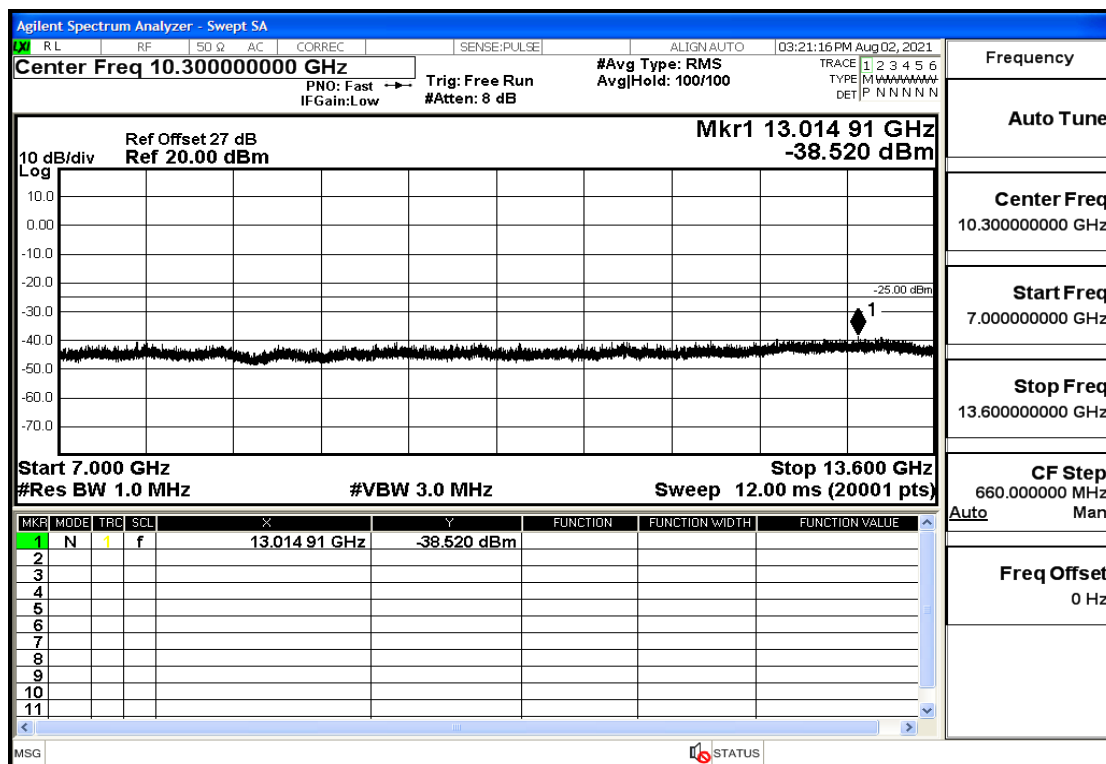
OB38-5-2617.5-QPSK-25#LOW@30MHz-1GHz@Pass



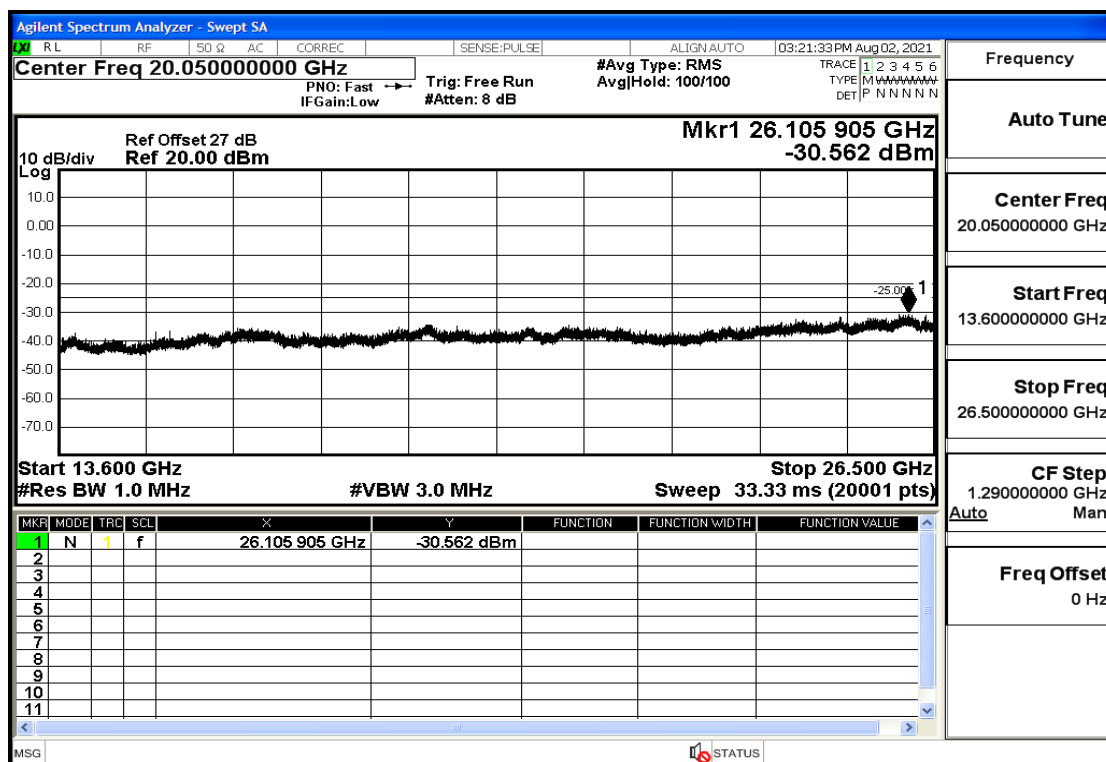
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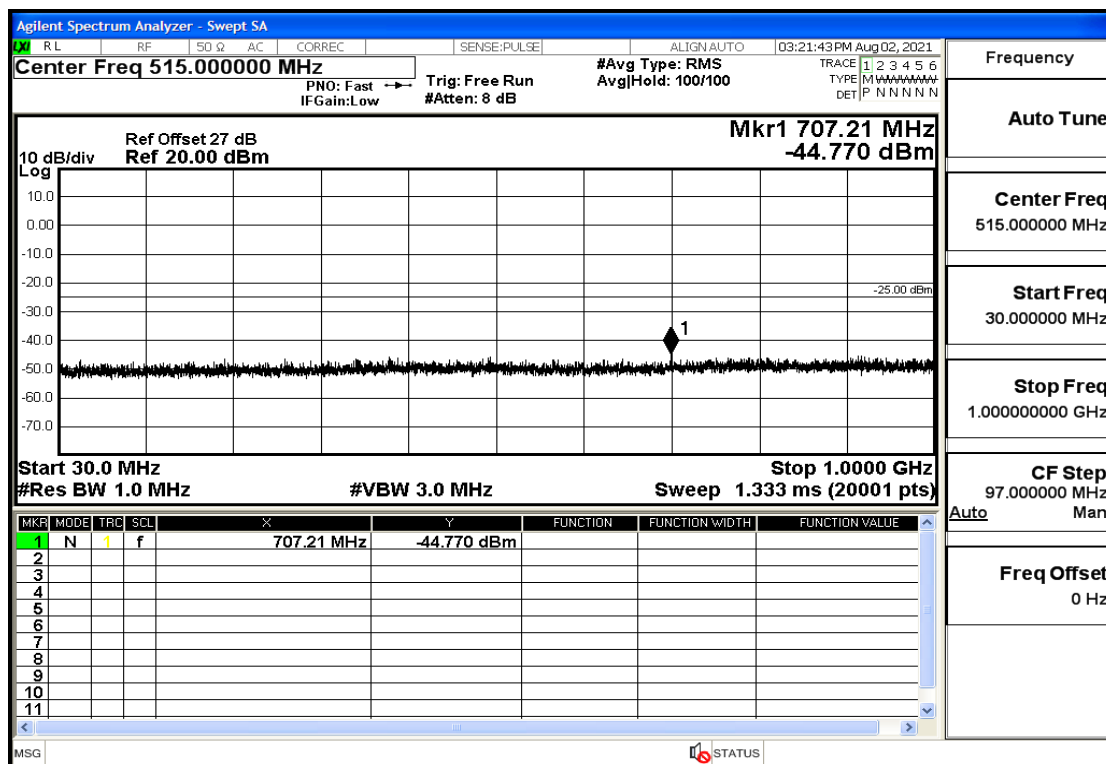
OB38-5-2617.5-QPSK-25#LOW@7GHz-13.6GHz@Pass



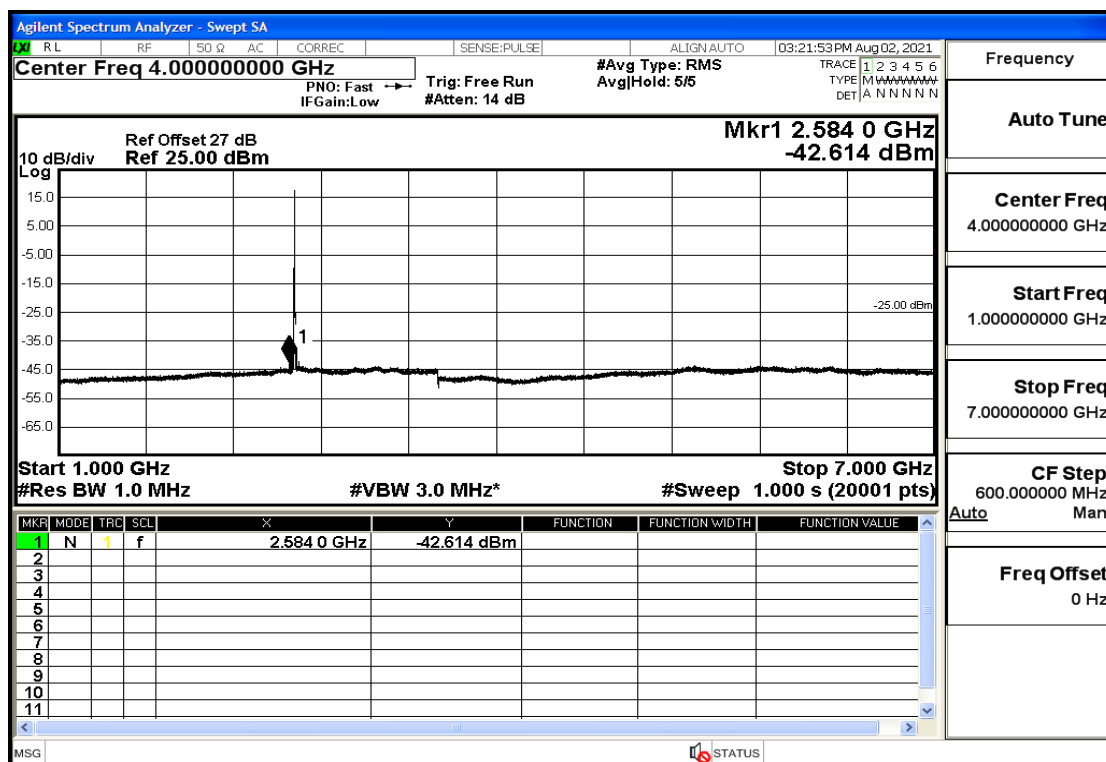
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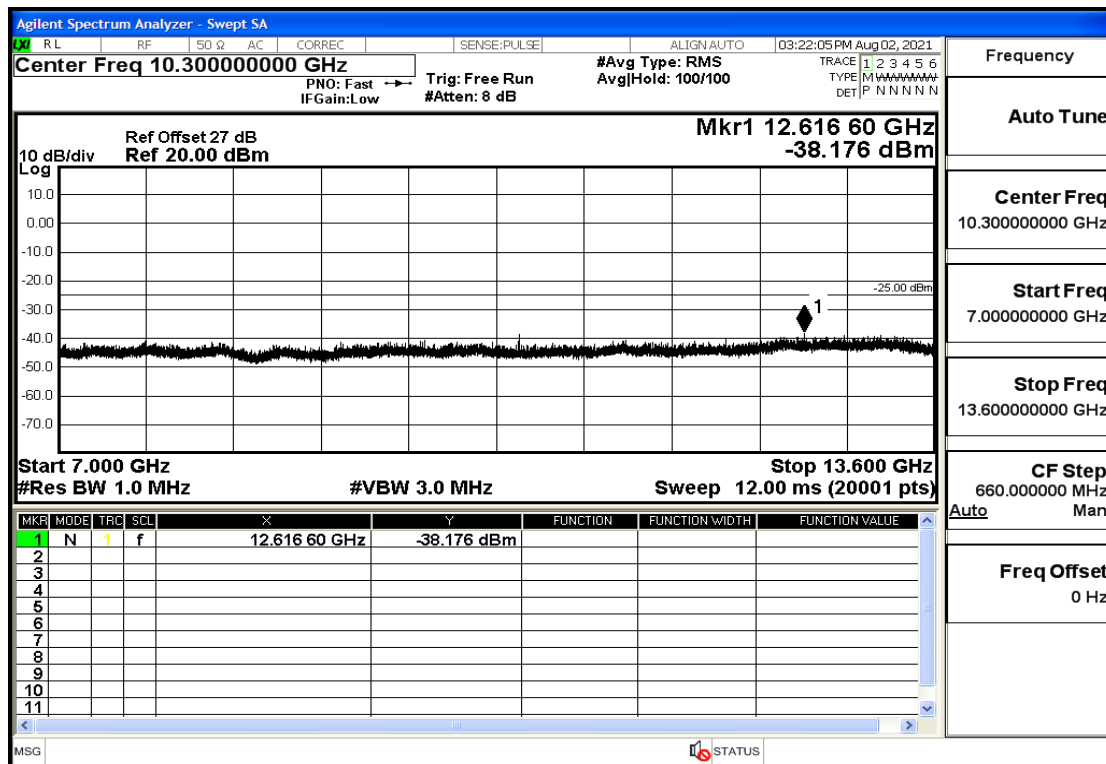
OB38-5-2617.5-QPSK-12#LOW@30mHz-1GHz@Pass



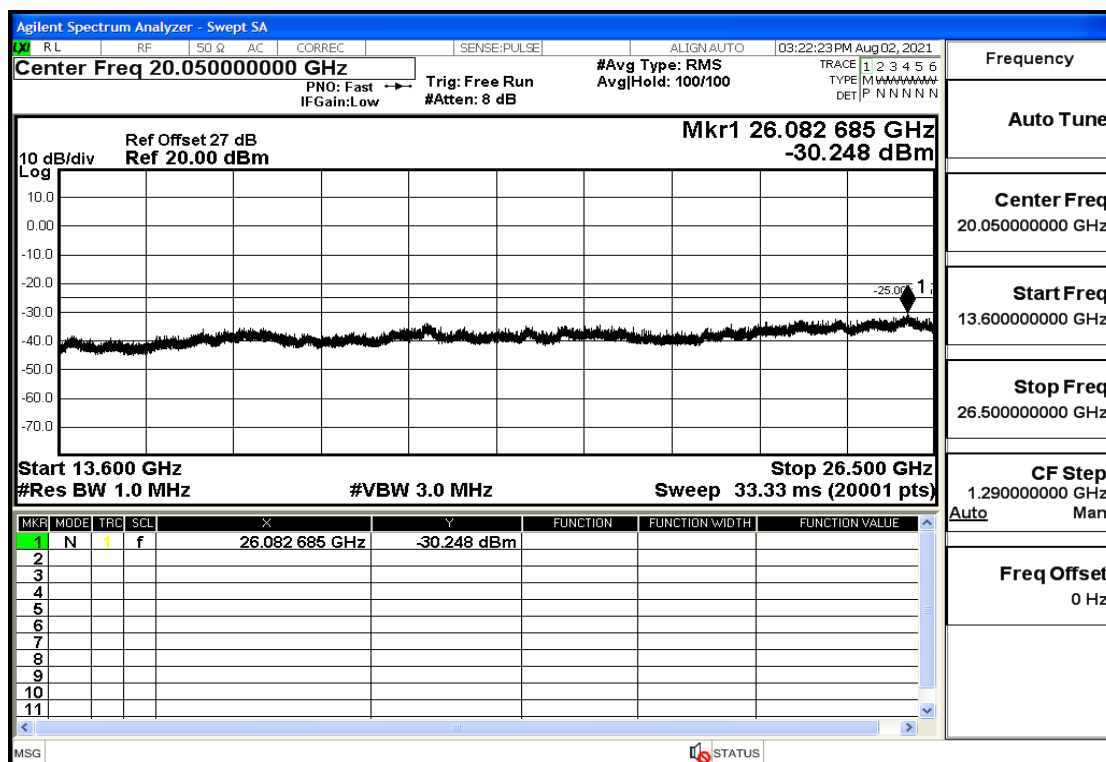
OB38-5-2617.5-QPSK-12#LOW@1GHz-7GHz@Pass



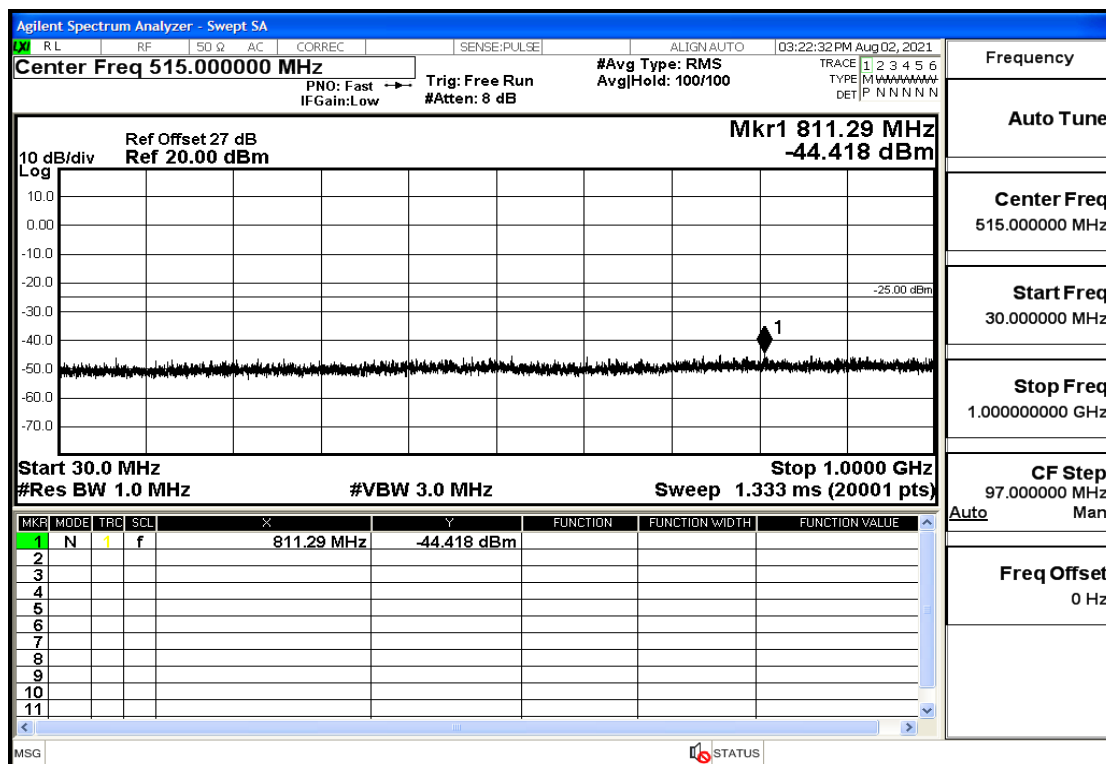
OB38-5-2617.5-QPSK-12#LOW@7GHz-13.6GHz@Pass



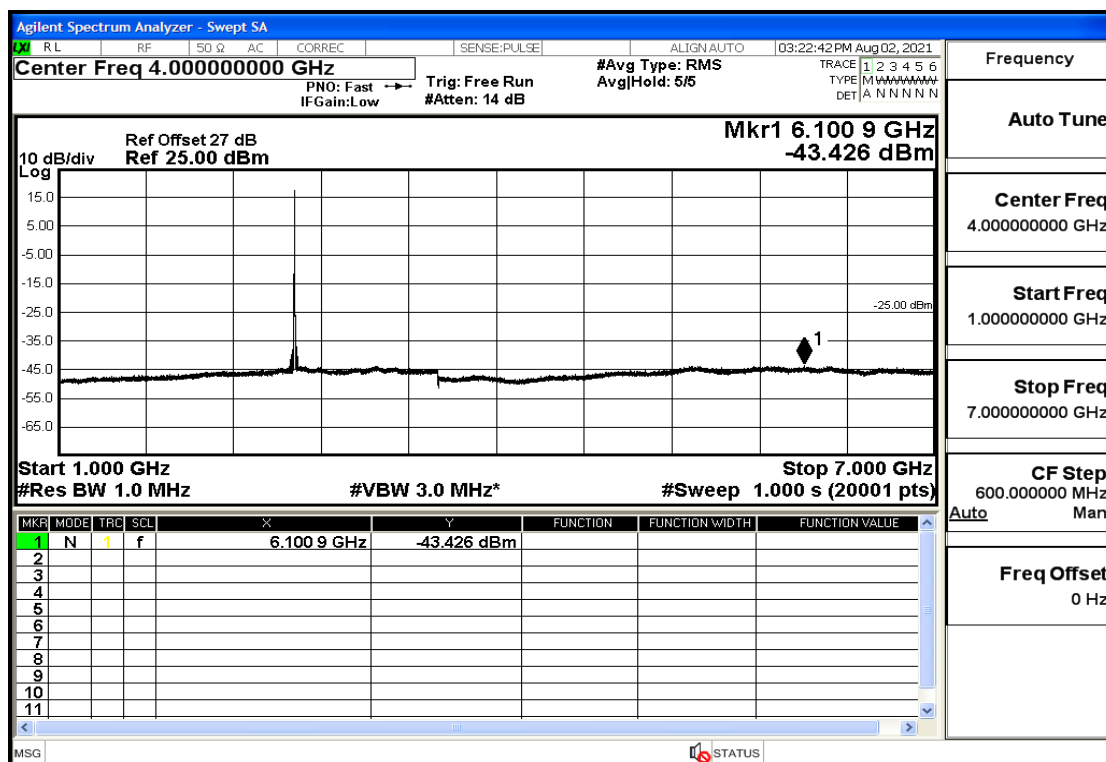
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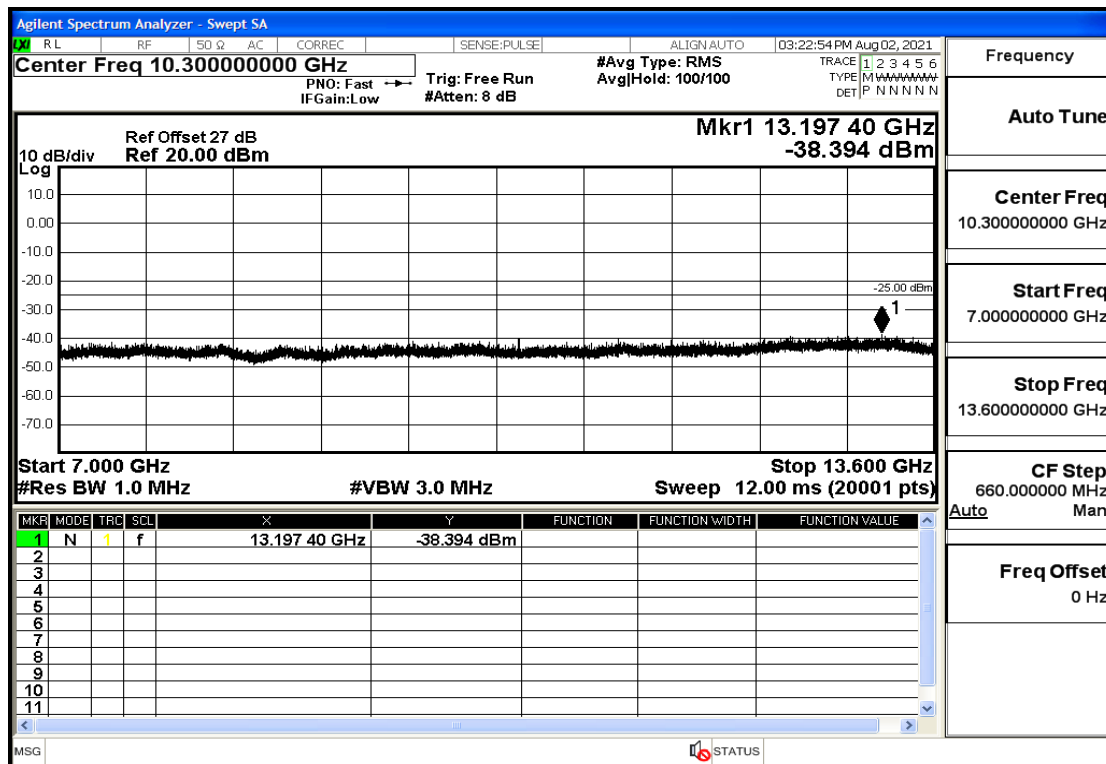
OB38-5-2617.5-QPSK-12#MID@30MHz-1GHz@Pass



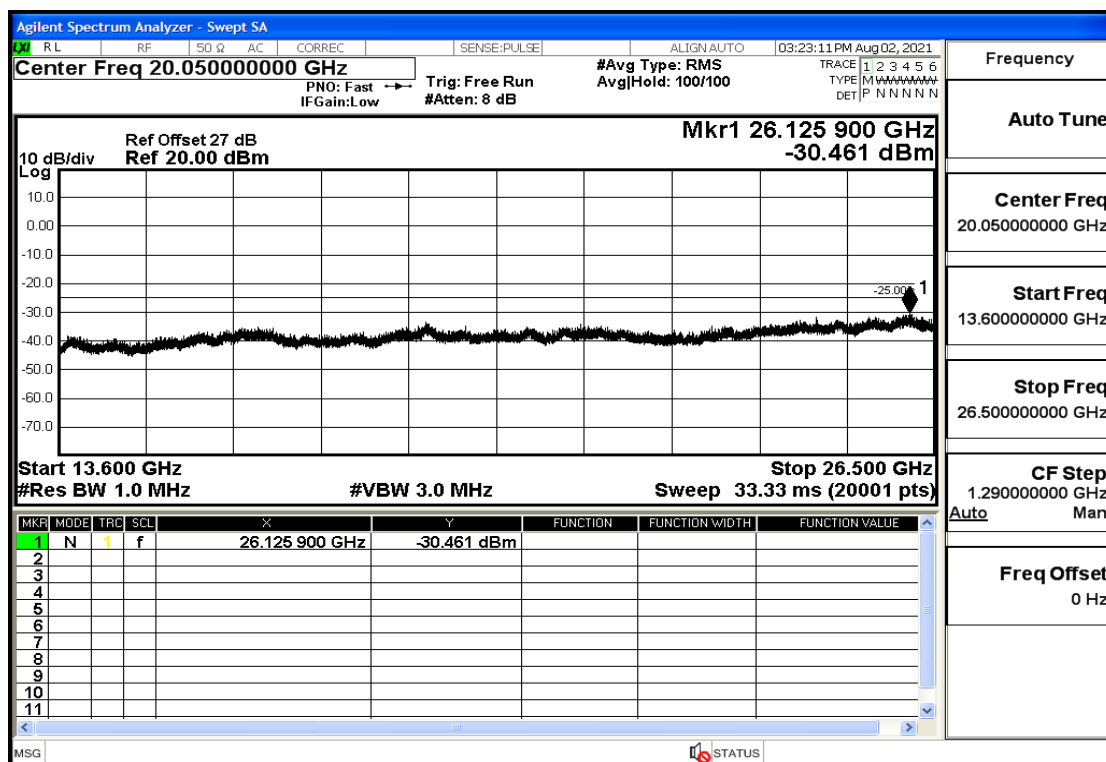
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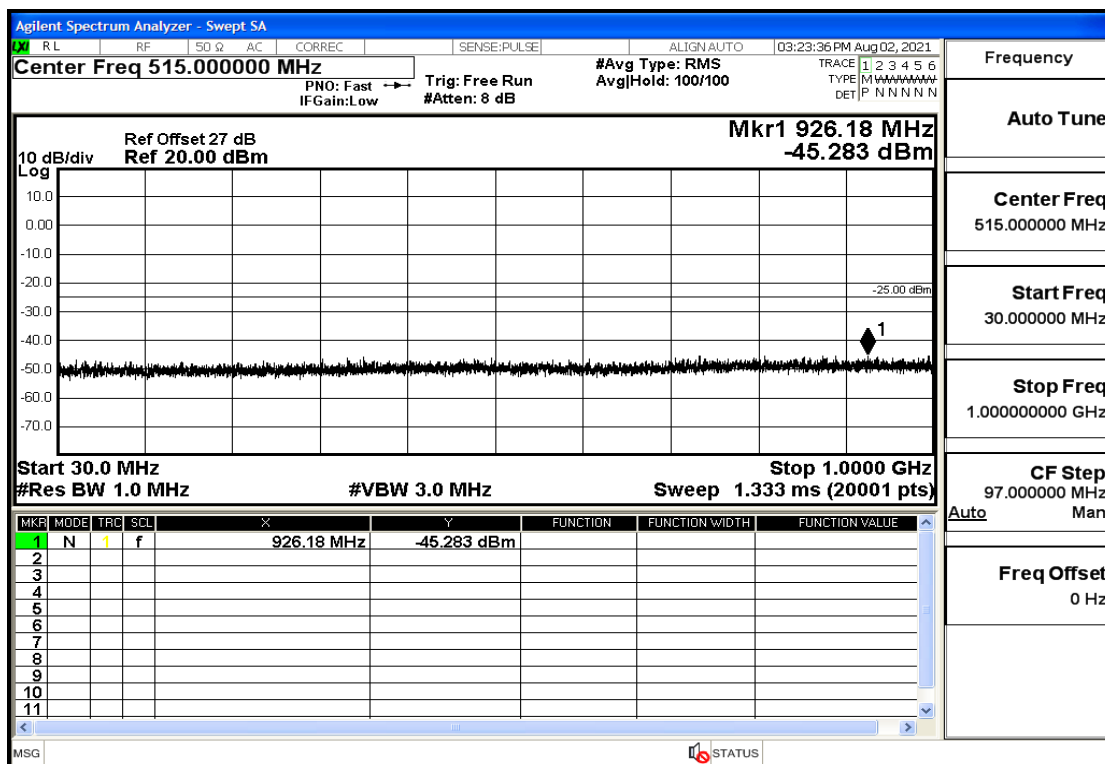
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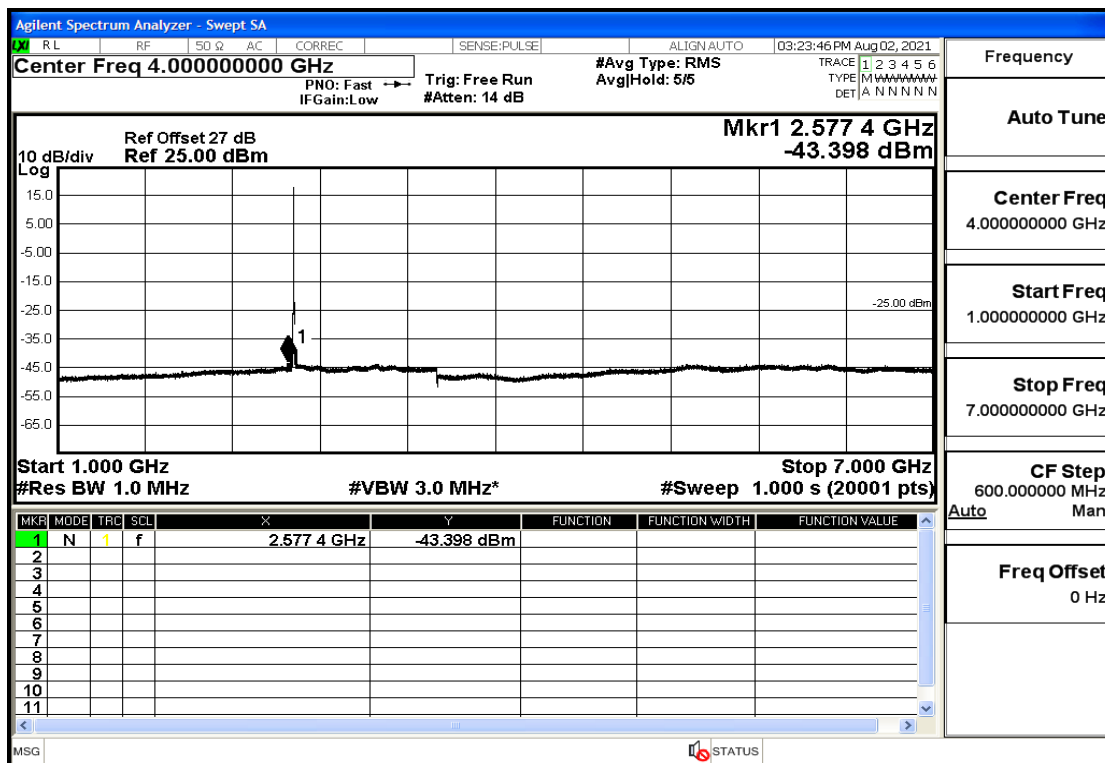
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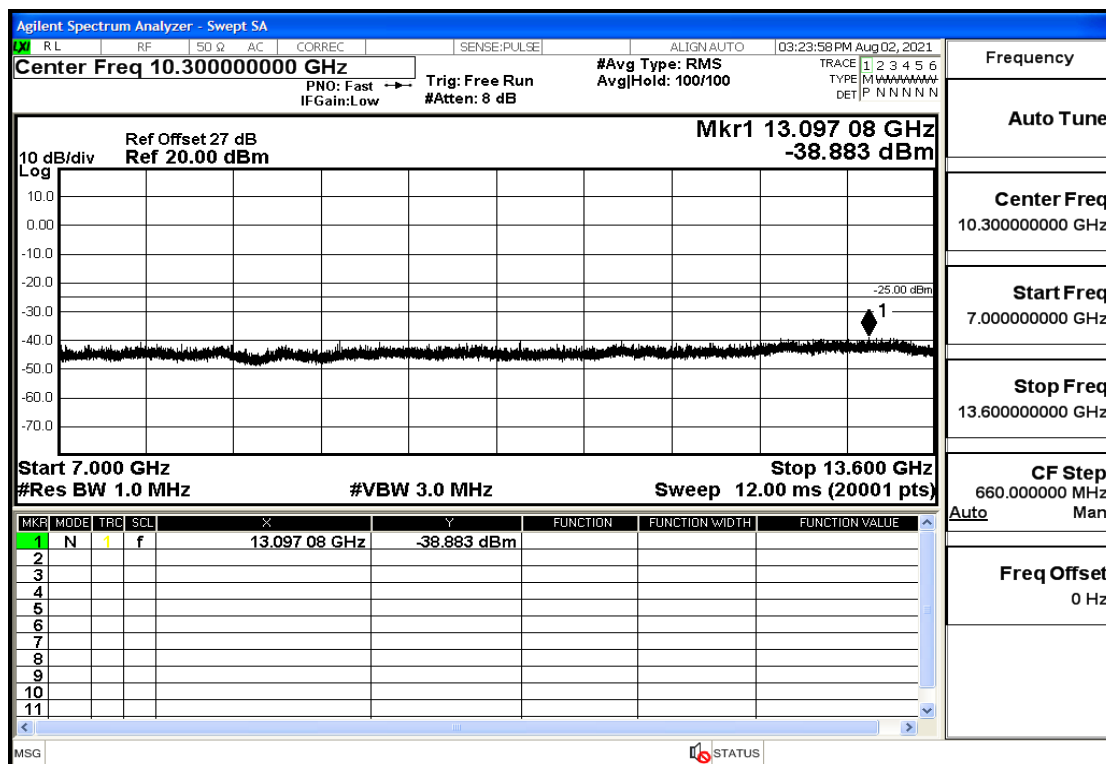
OB38-5-2617.5-QPSK-12#HIGH@30mHz-1GHz@Pass



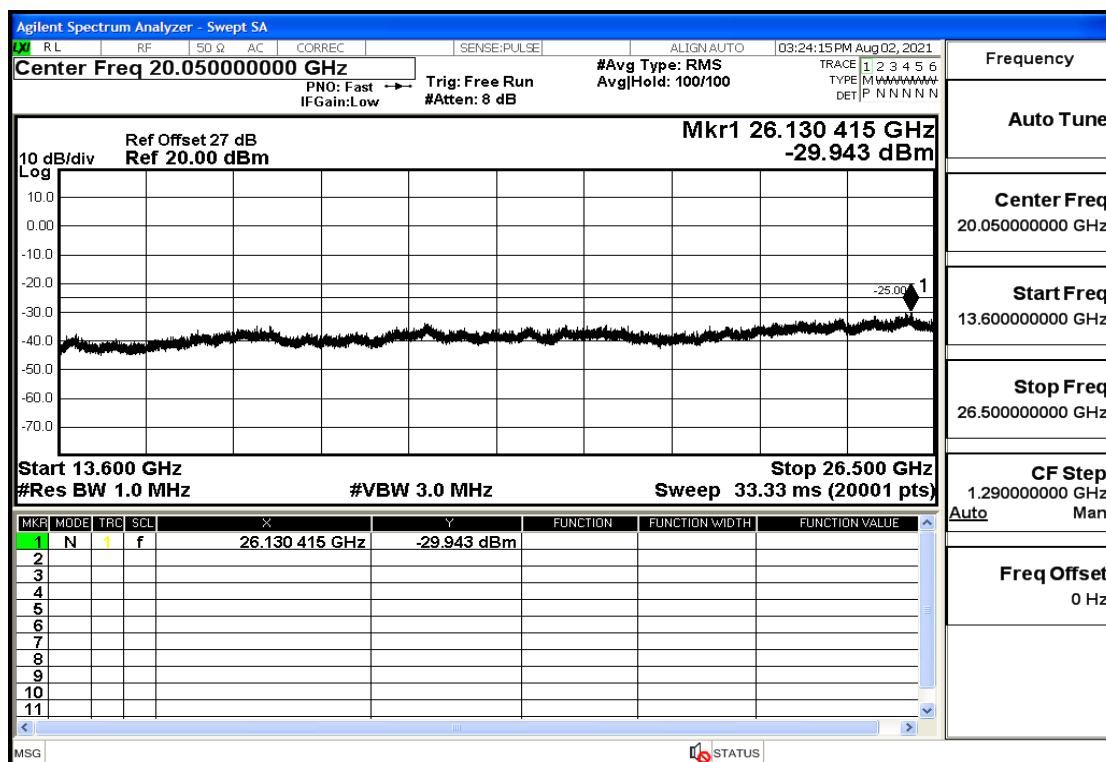
OB38-5-2617.5-QPSK-12#HIGH@1GHz-7GHz@Pass



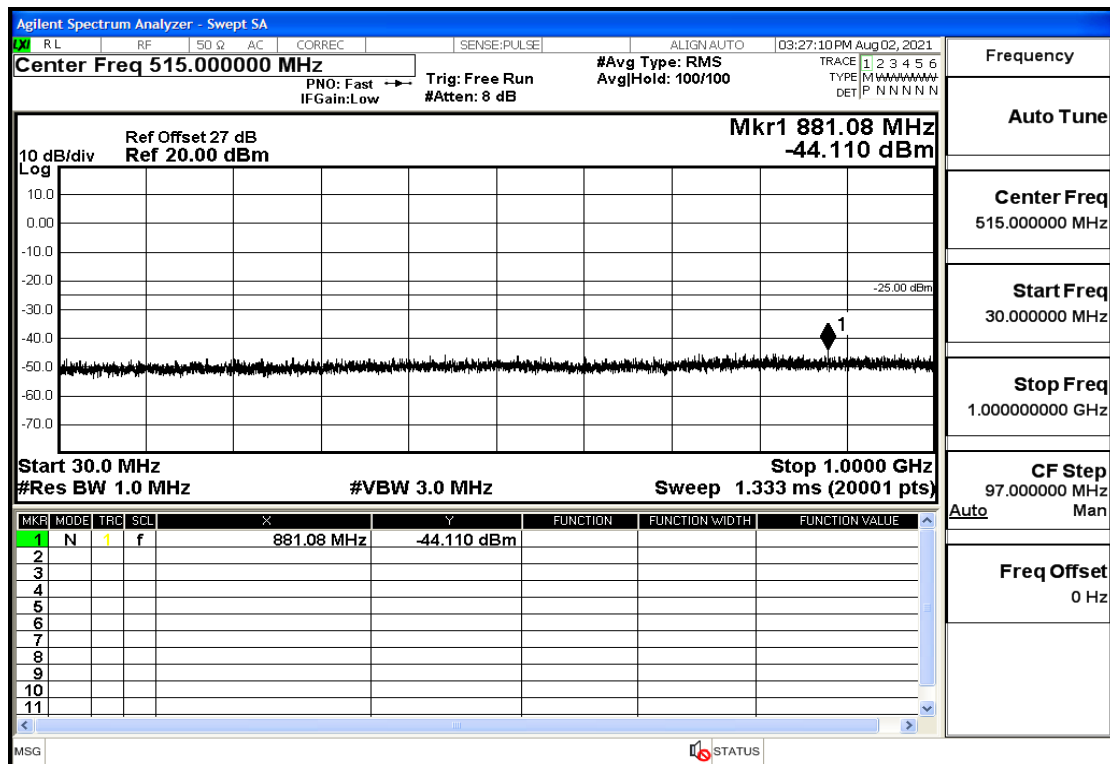
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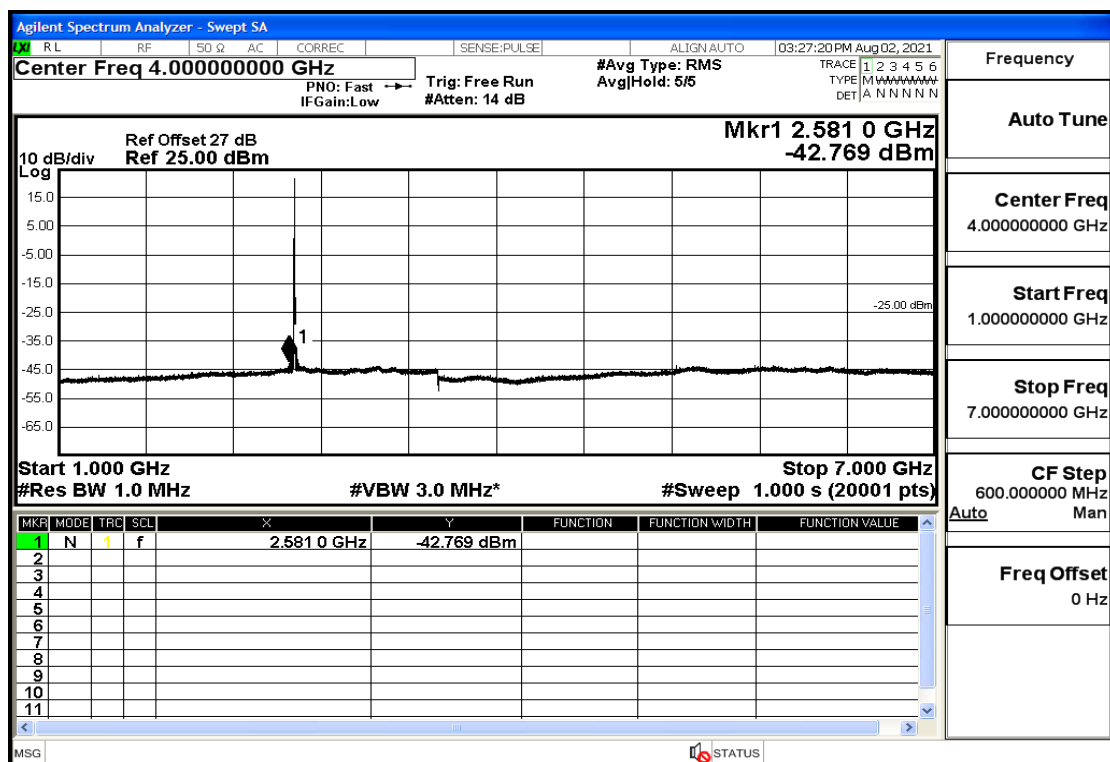
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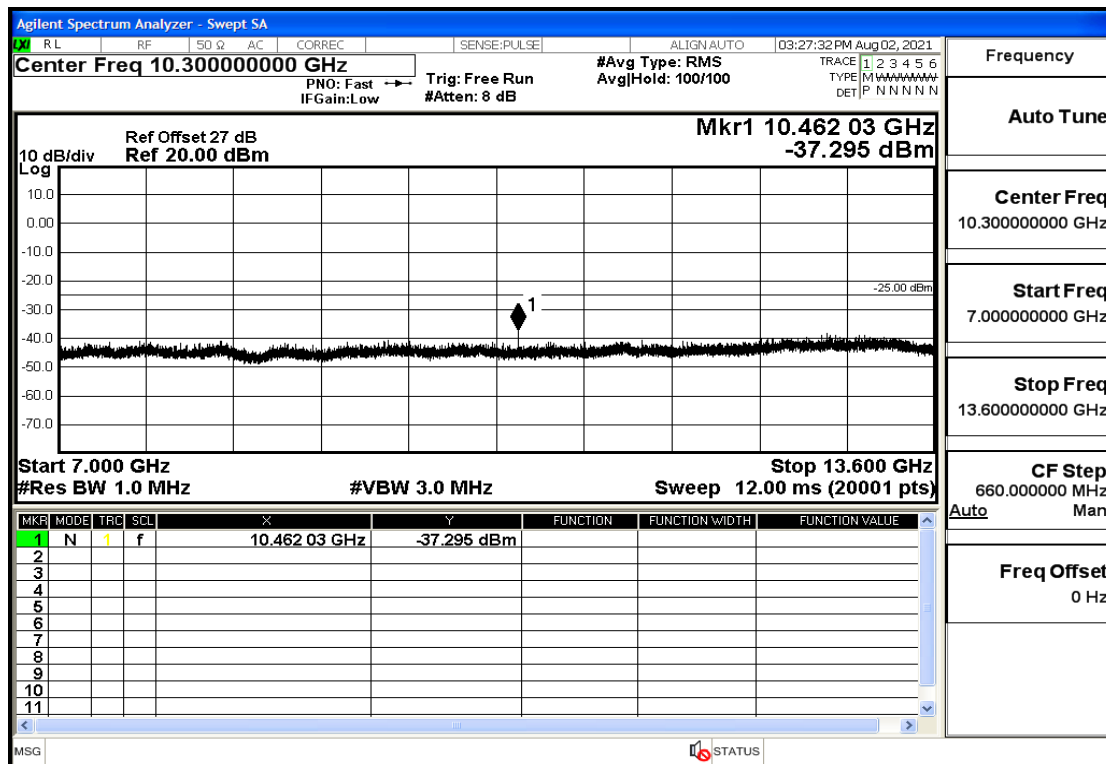
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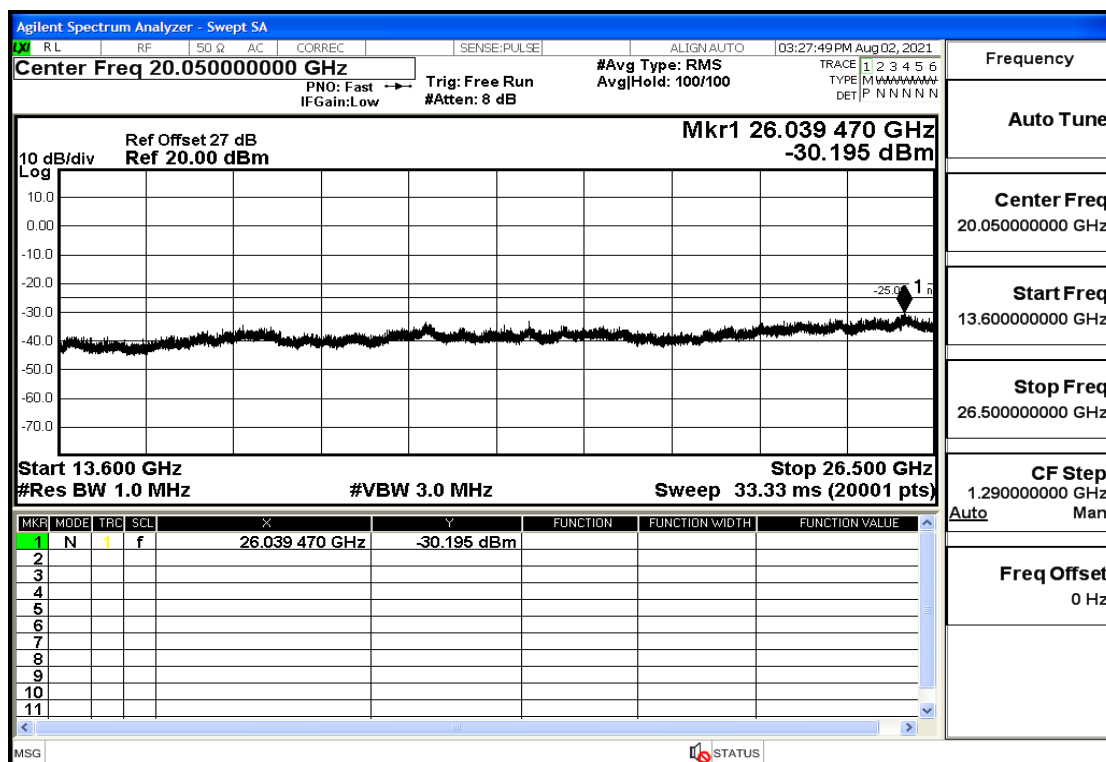
OB38-5-2617.5-QPSK-1#LOW@1GHz-7GHz@Pass



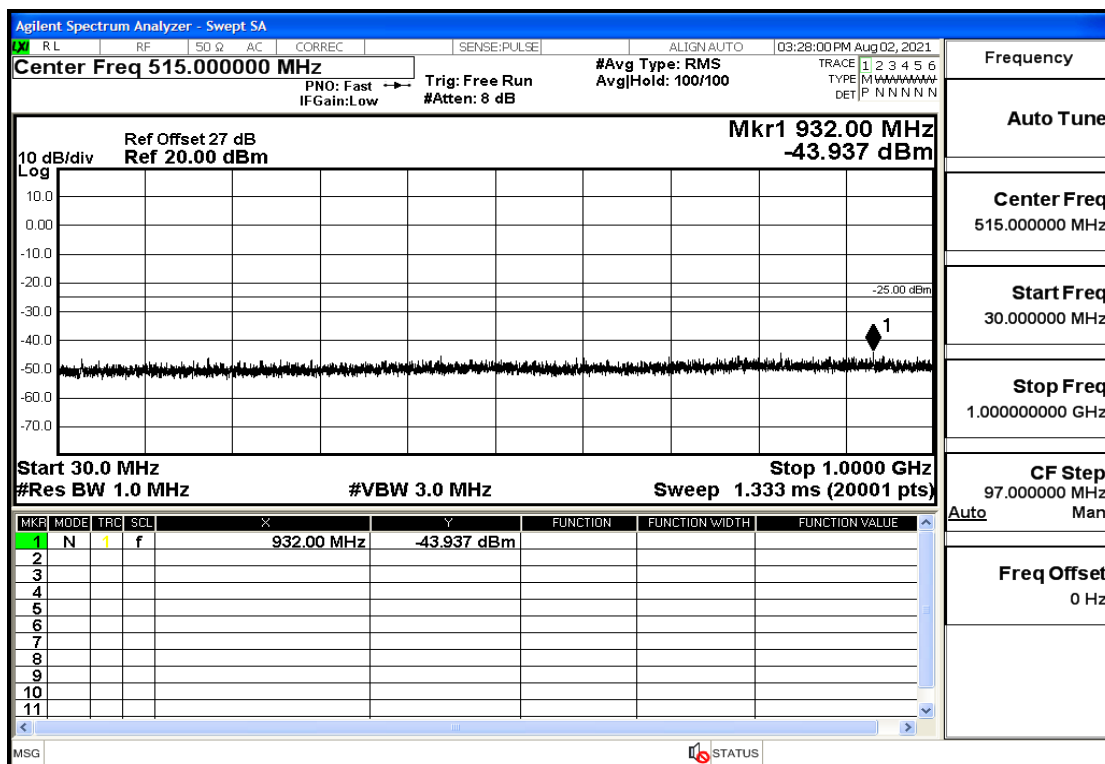
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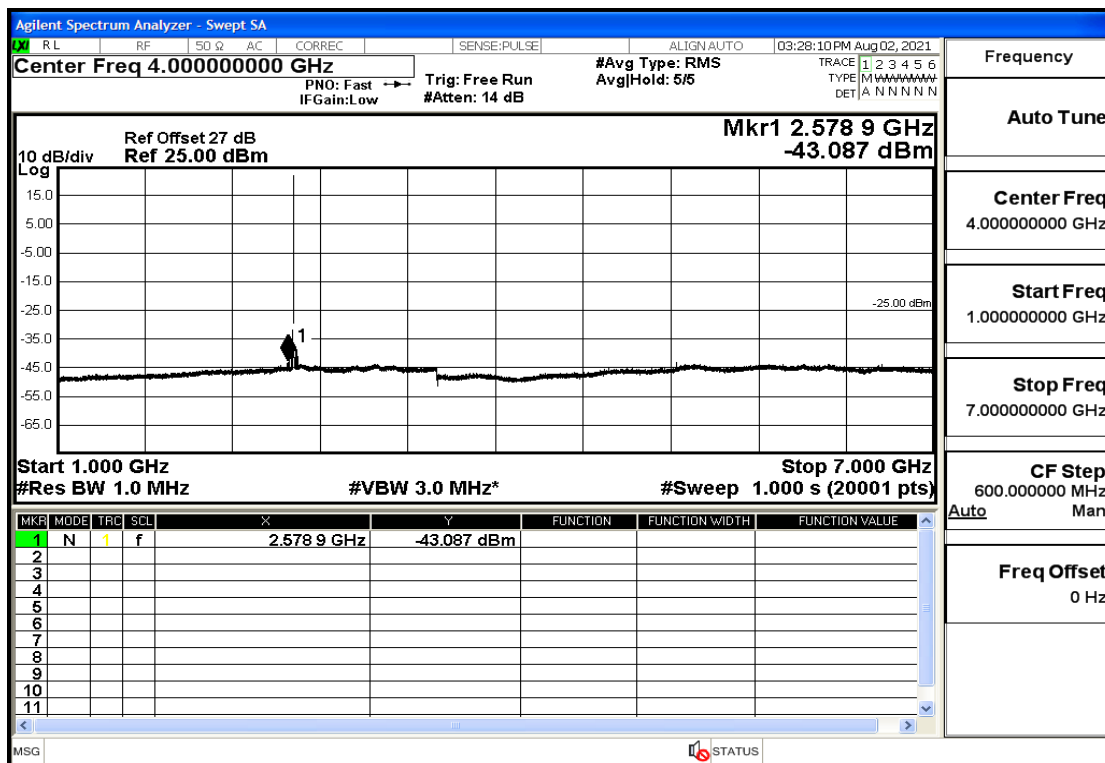
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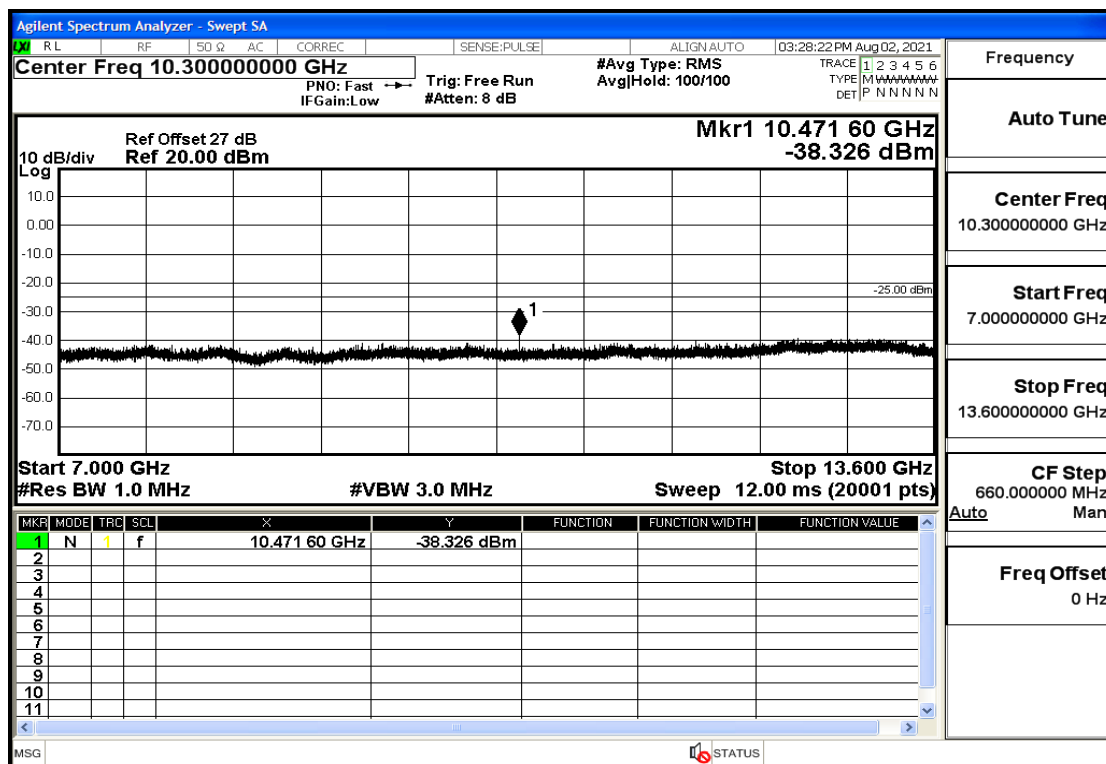
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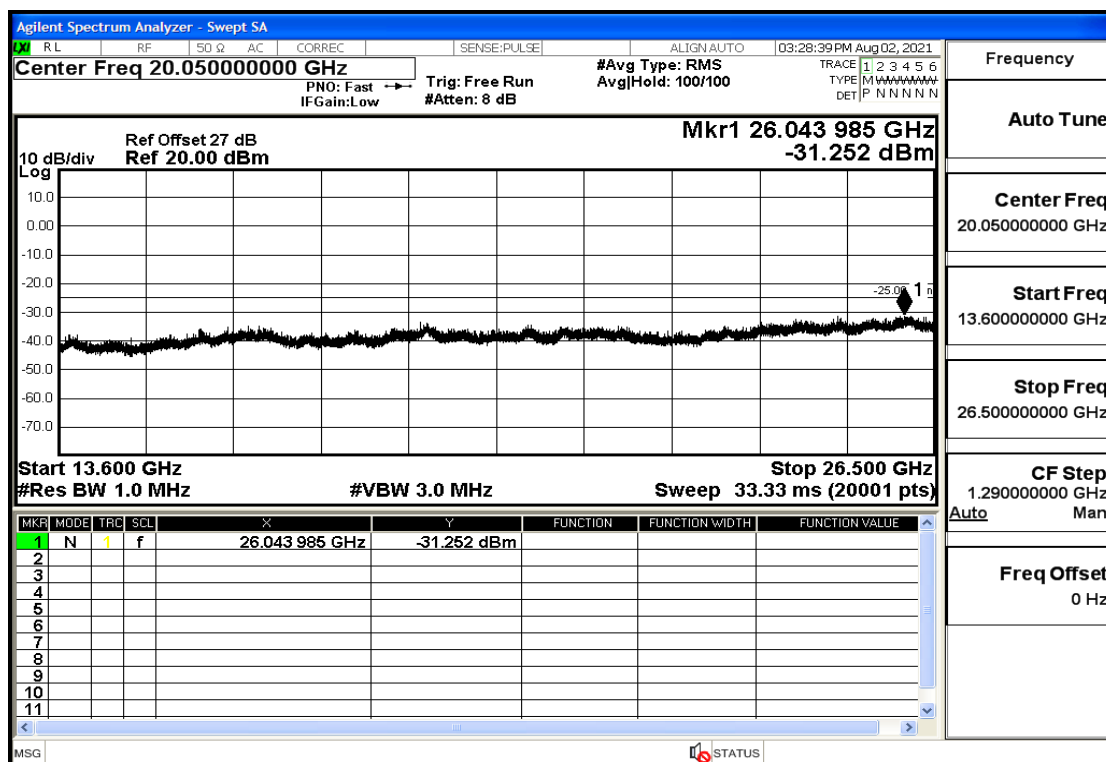
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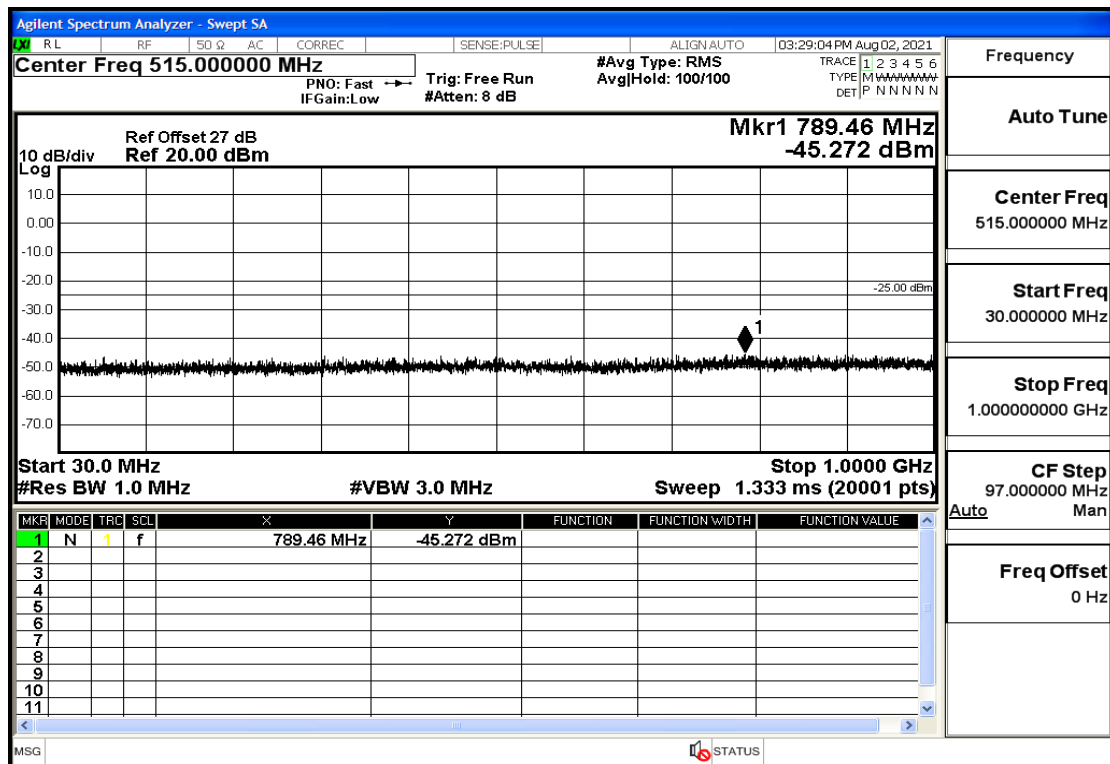
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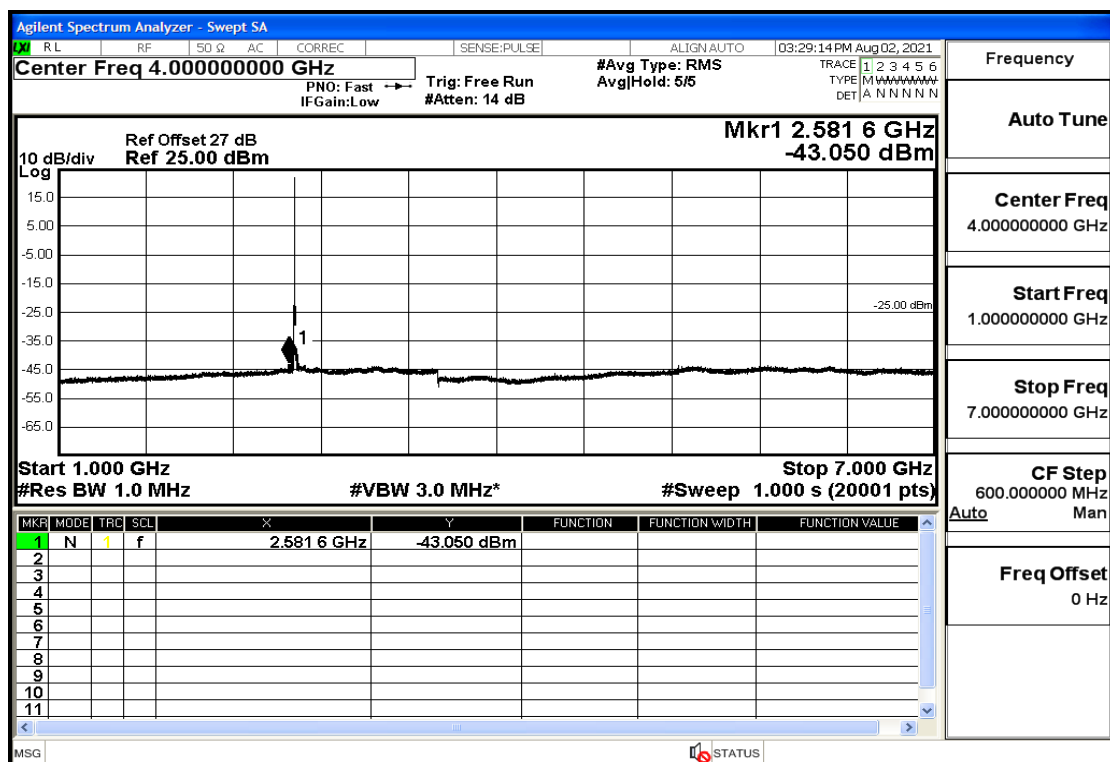
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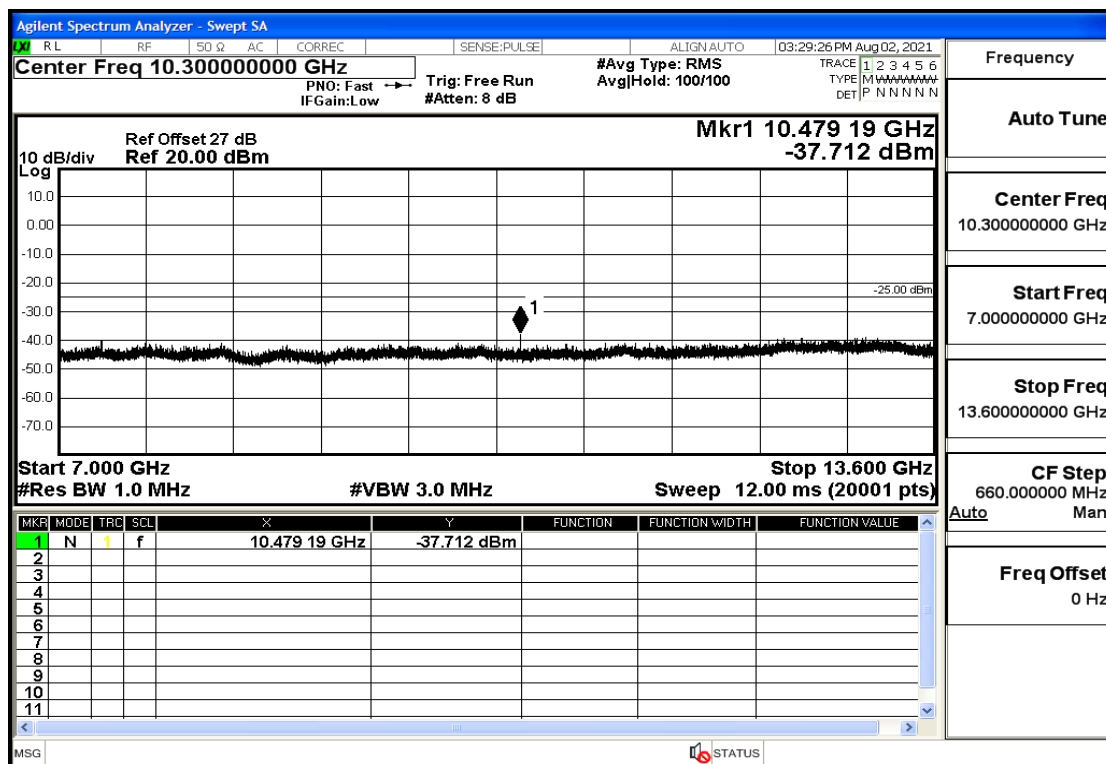
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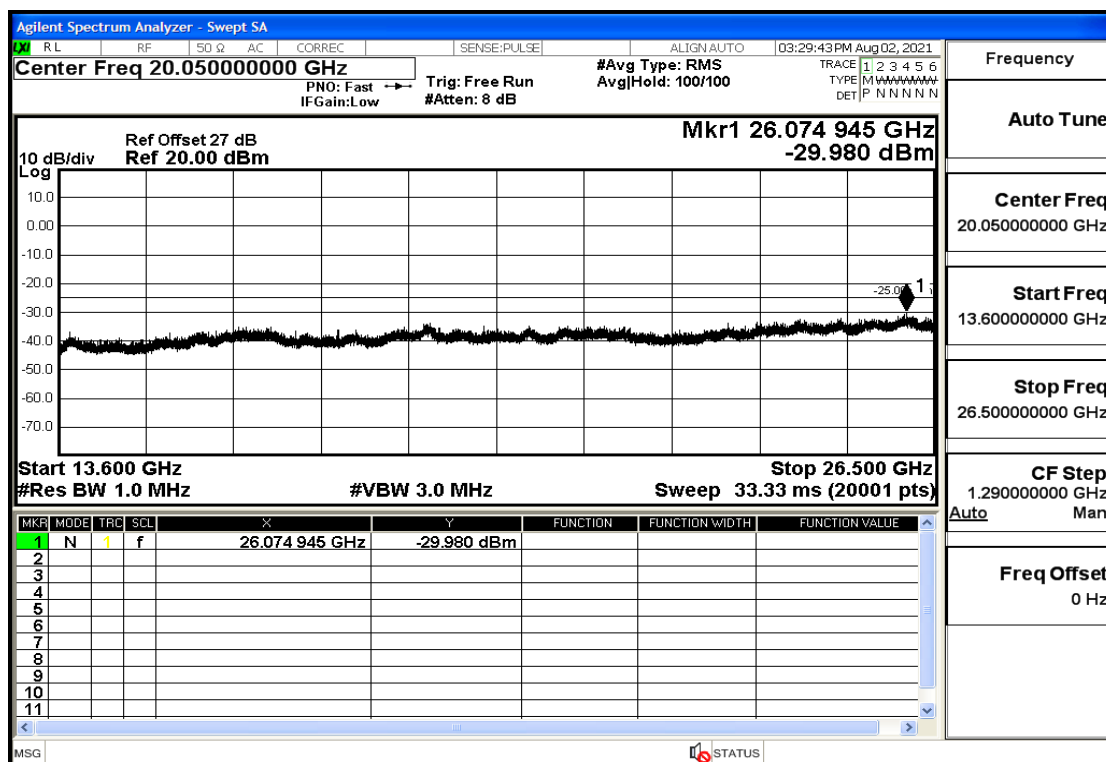
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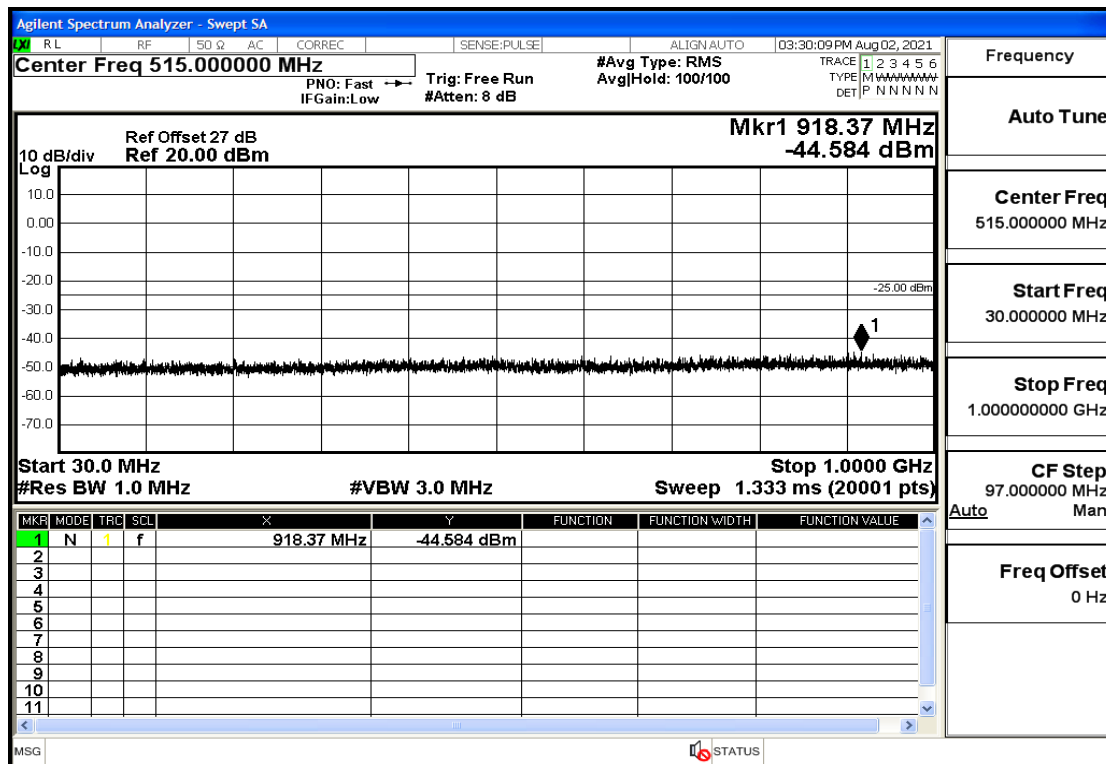
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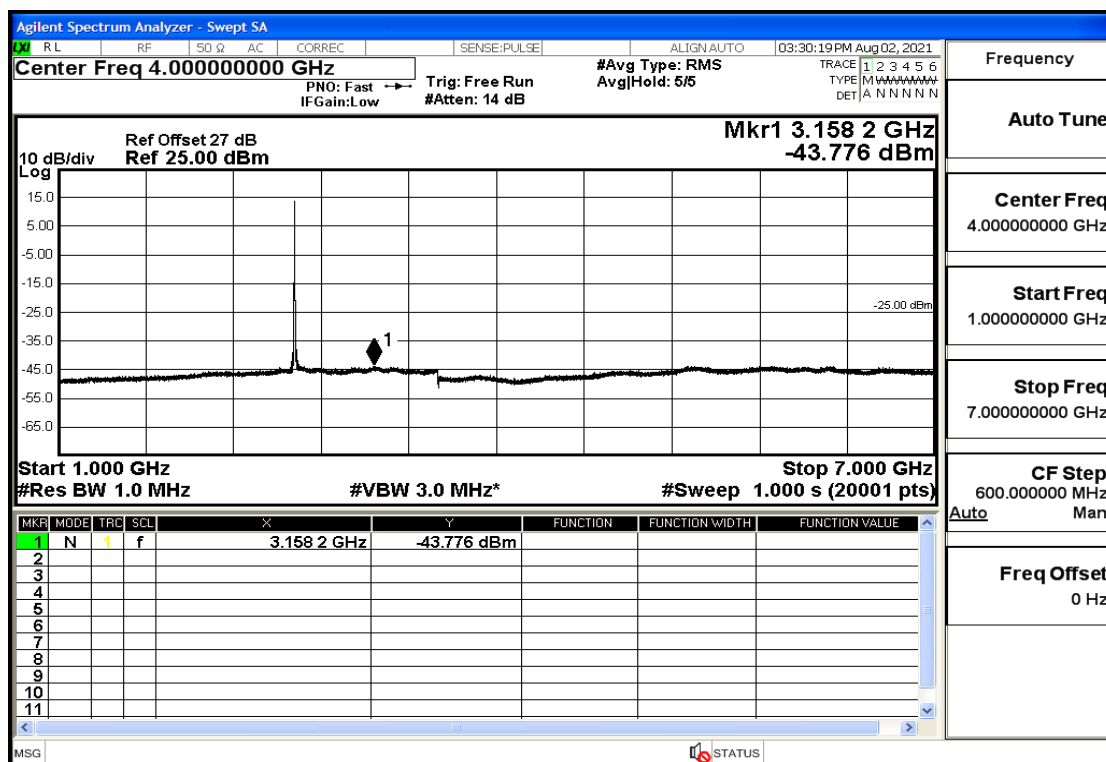
OB38-5-2617.5-QPSK-1#HIGH@13.6GHz-26.5GHz@Pass



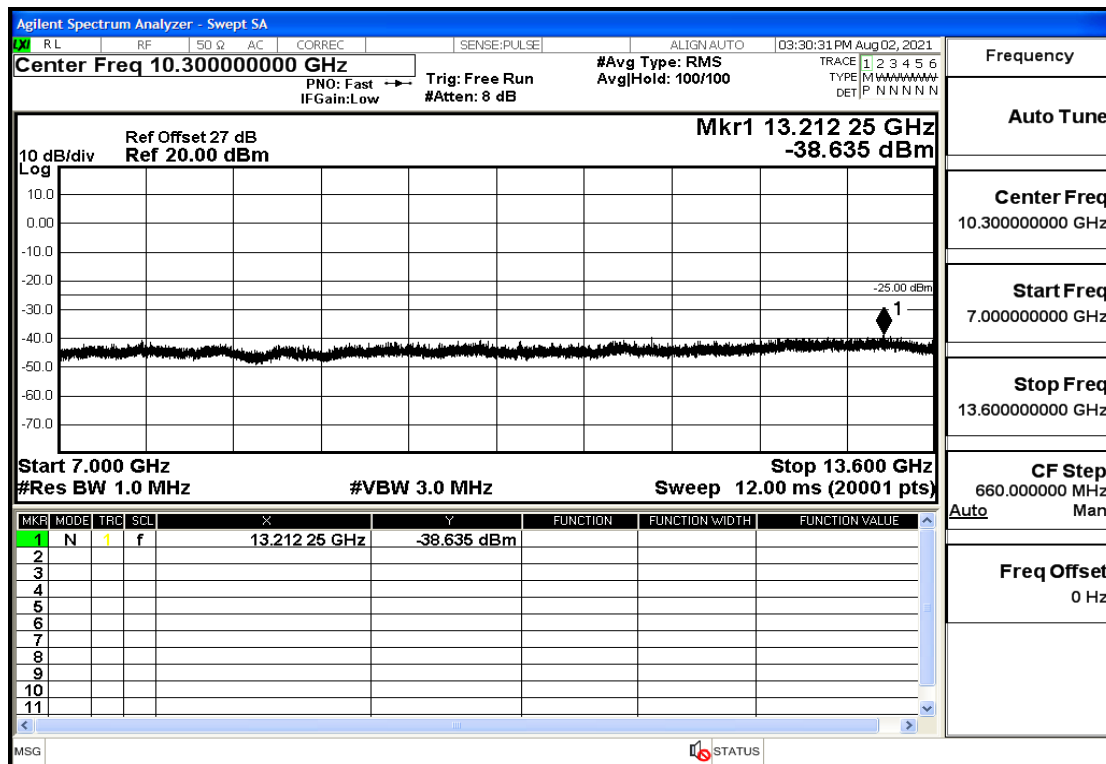
OB38-5-2617.5-Q16-25#LOW@30mHz-1GHz@Pass



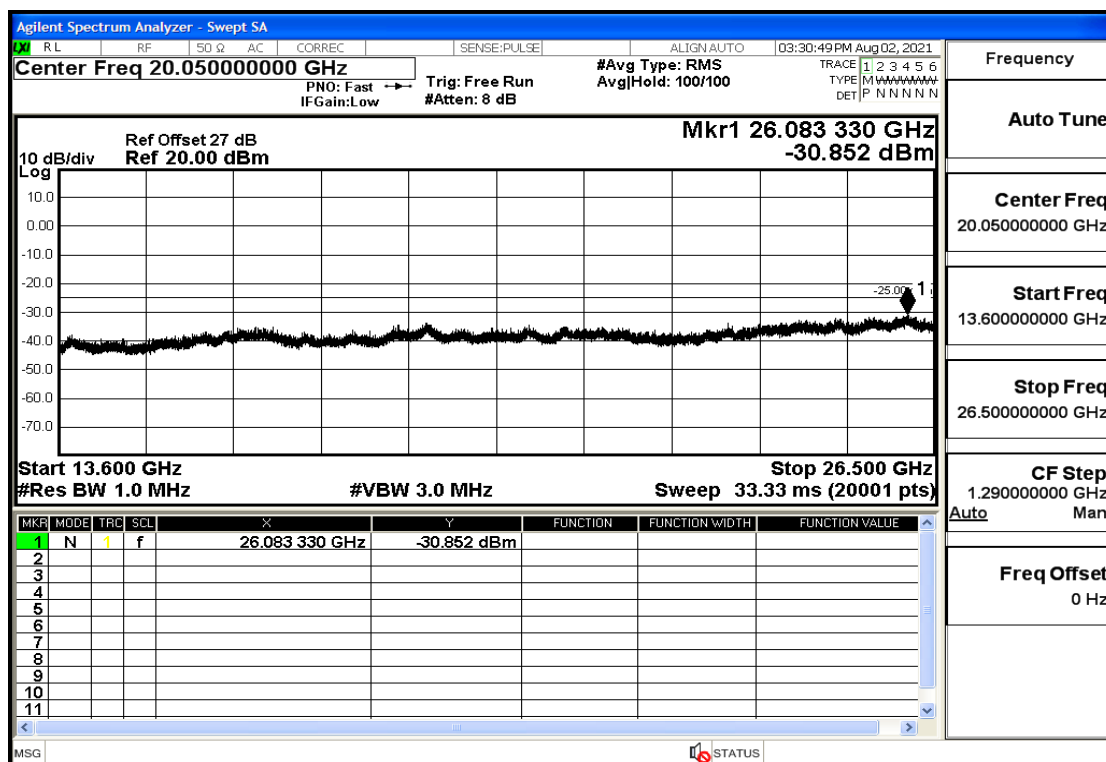
OB38-5-2617.5-Q16-25#LOW@1GHz-7GHz@Pass



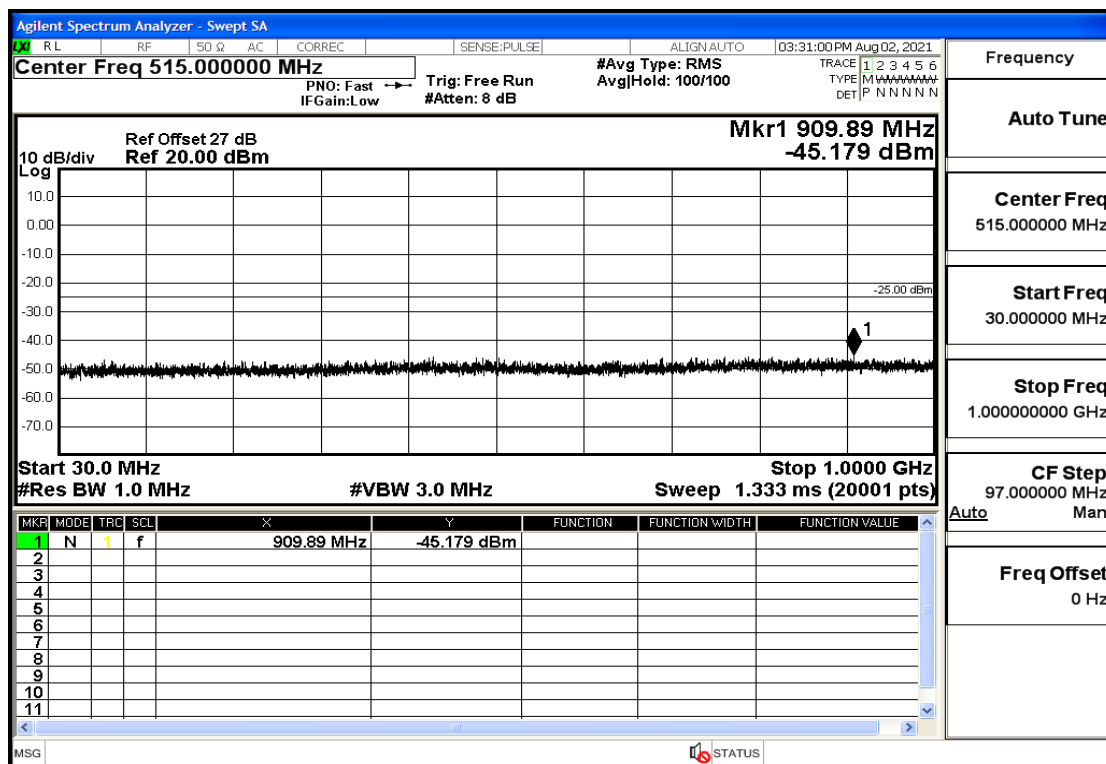
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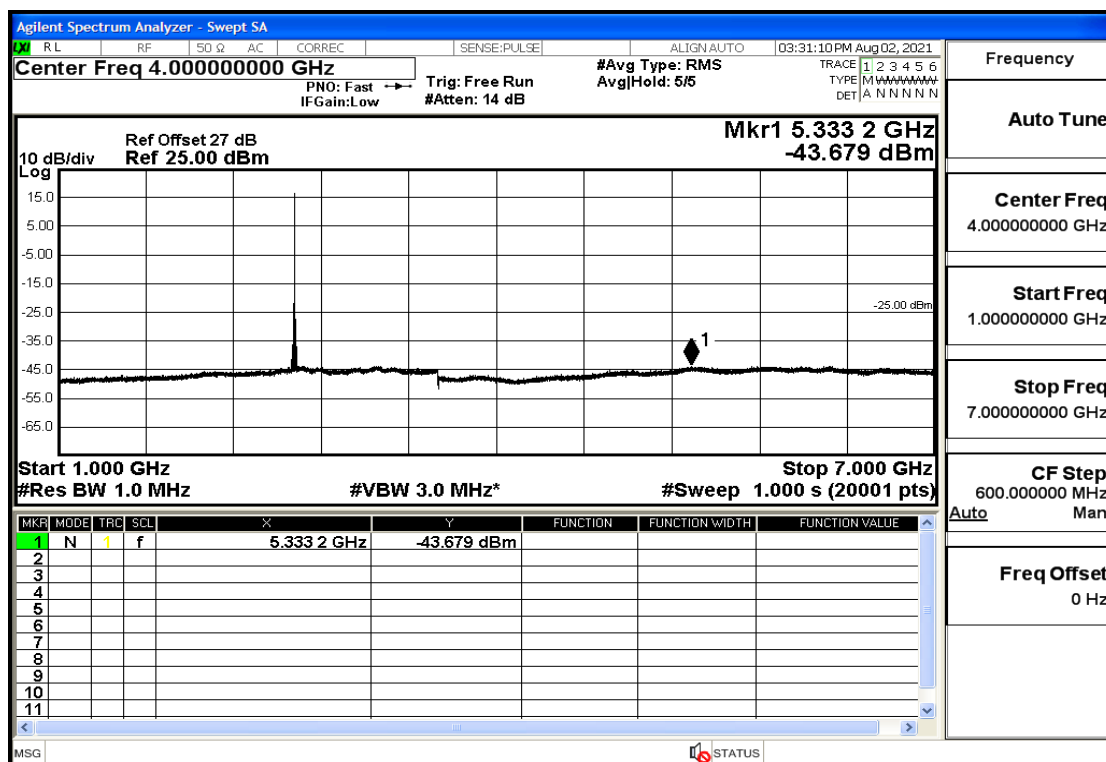
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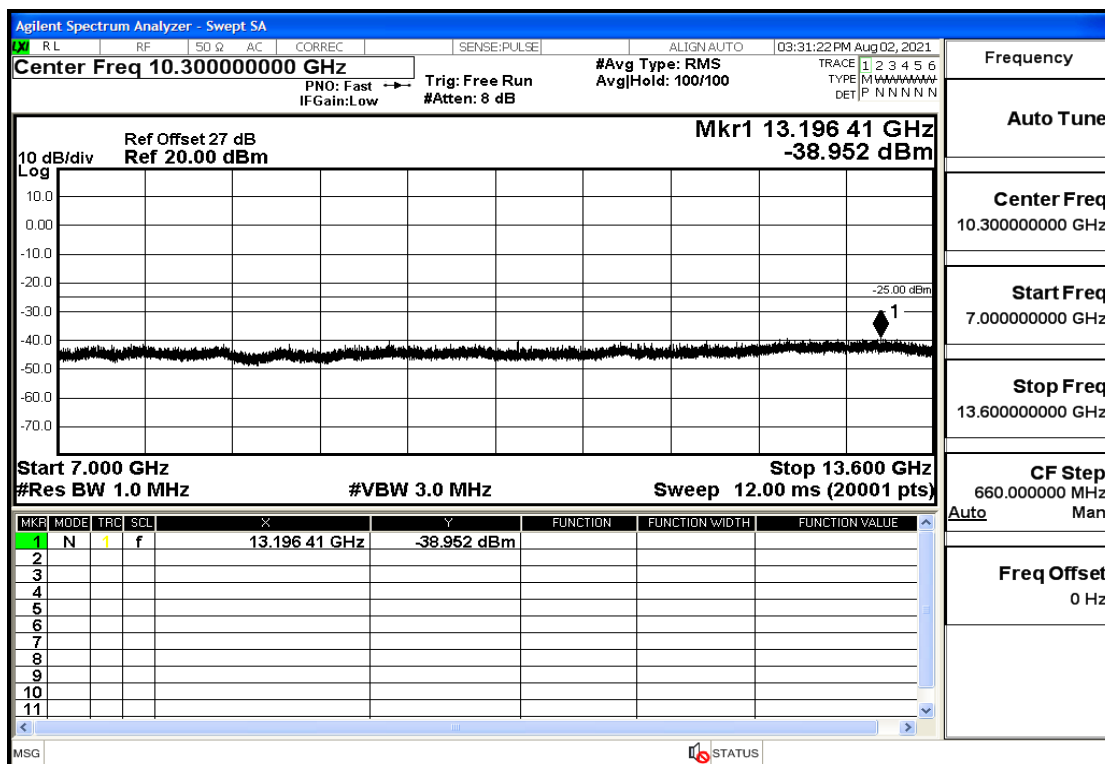
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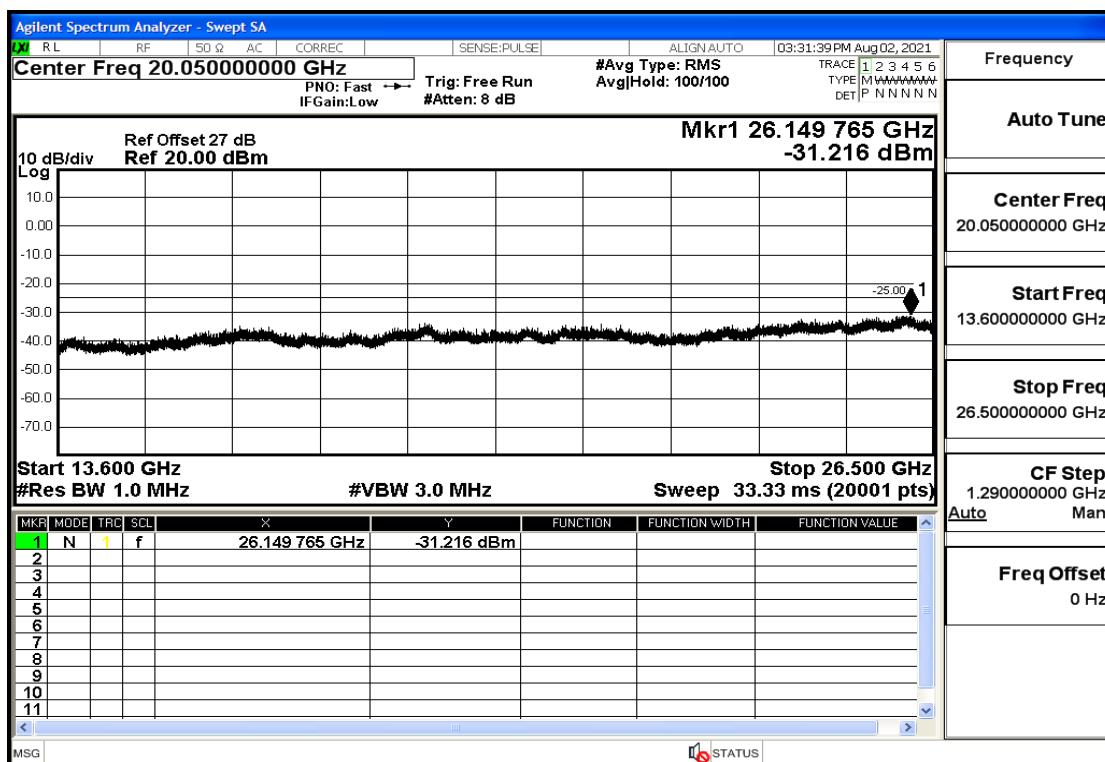
OB38-5-2617.5-Q16-12#LOW@1GHz-7GHz@Pass



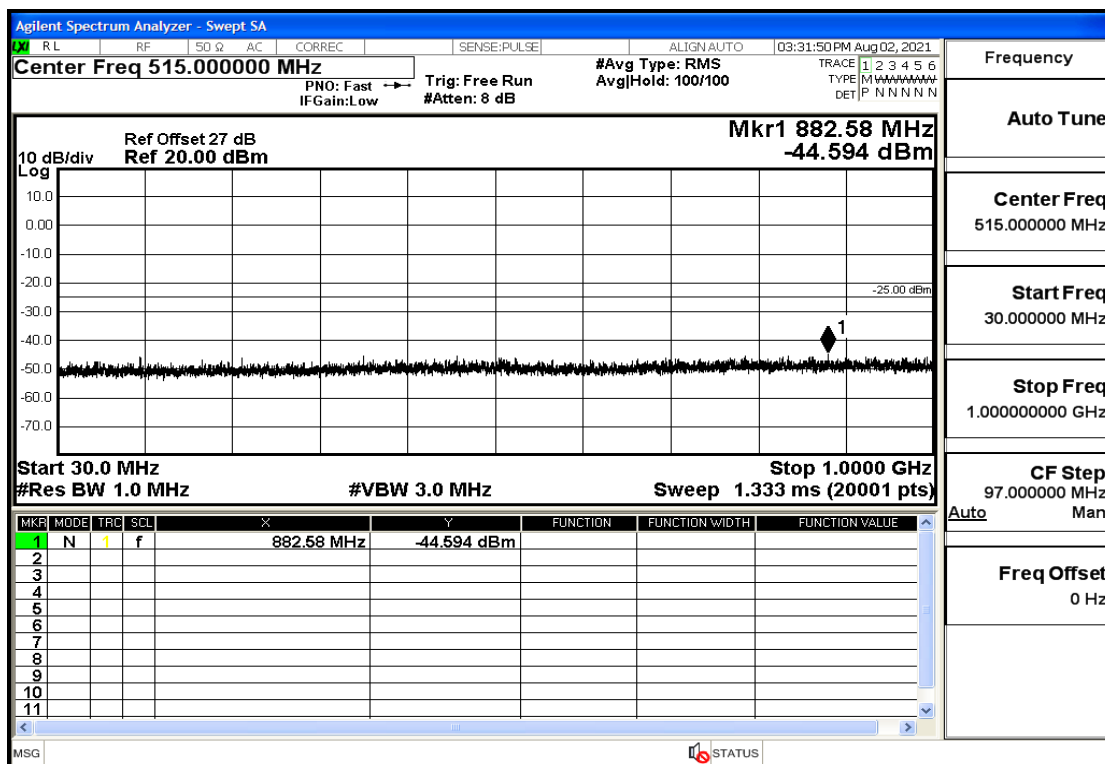
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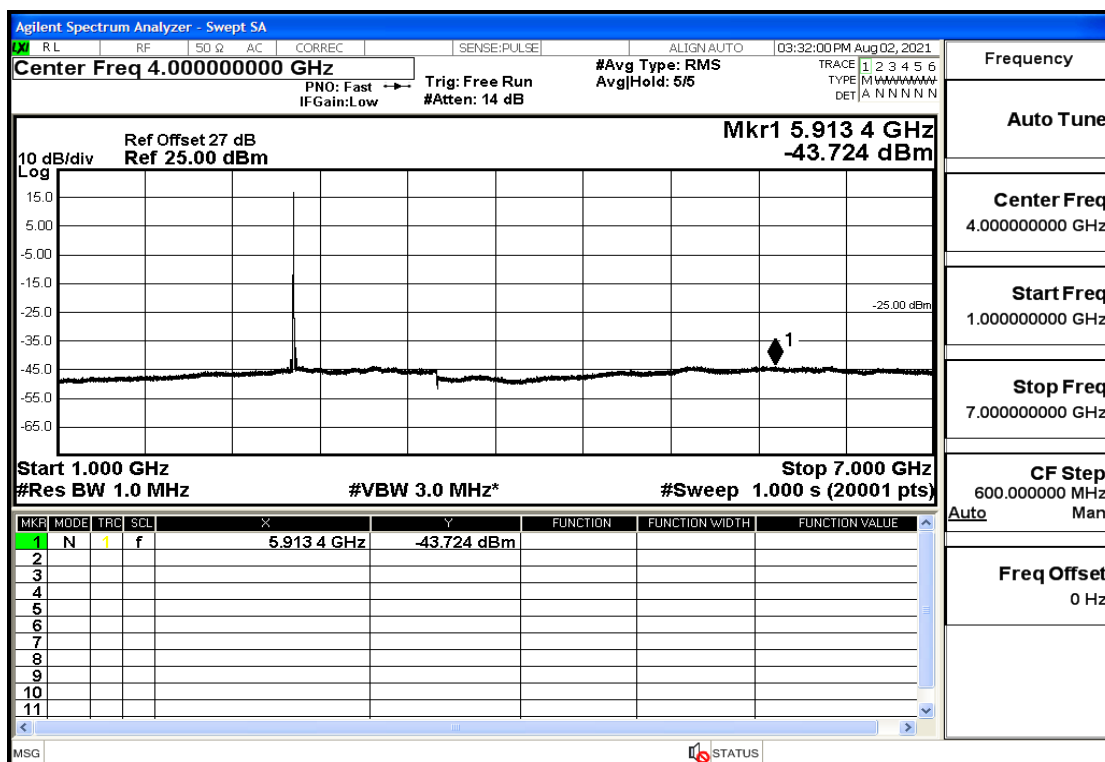
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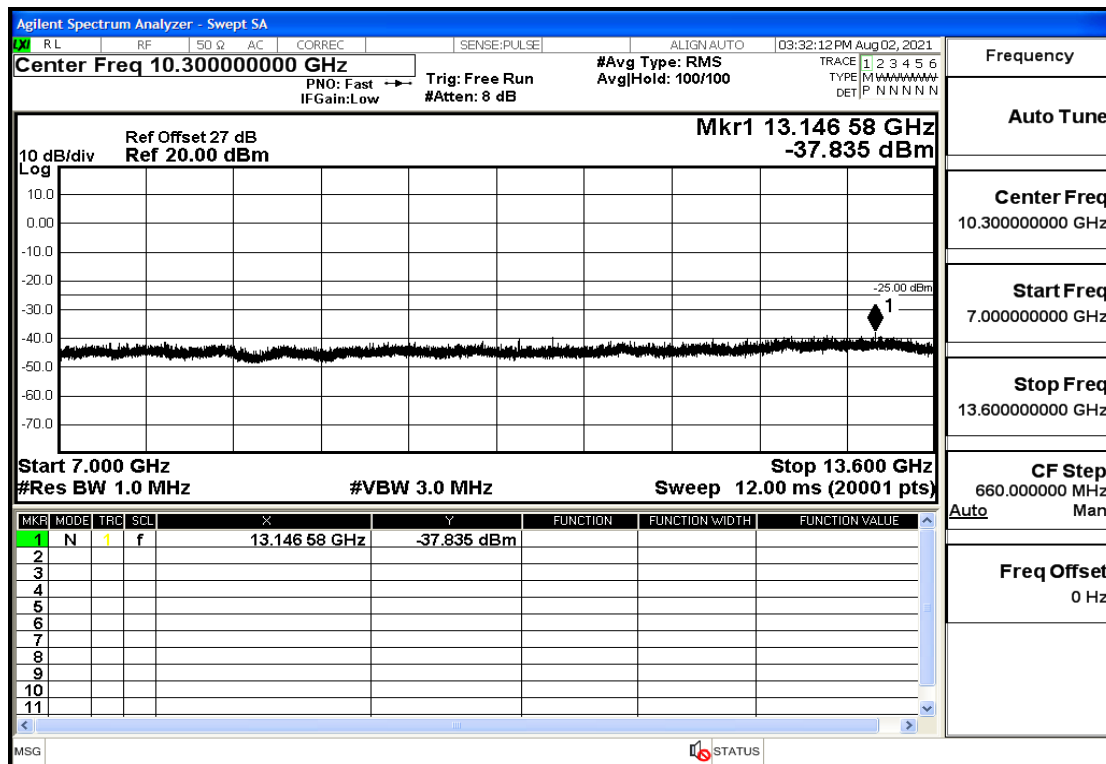
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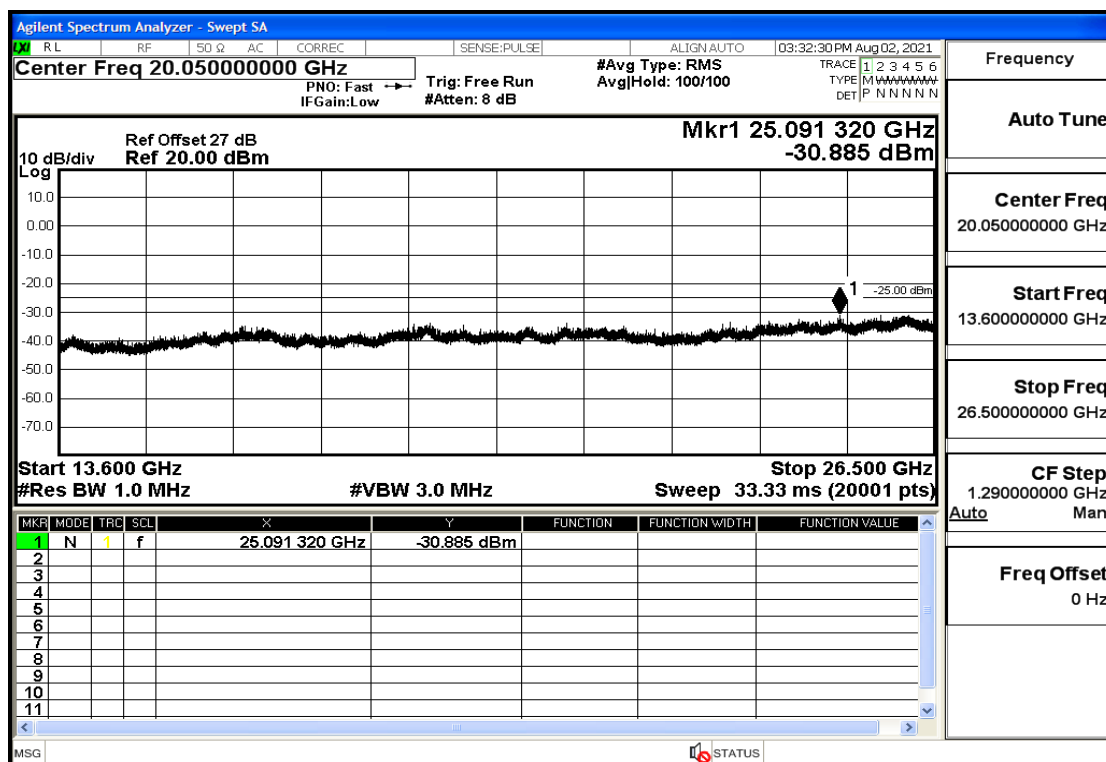
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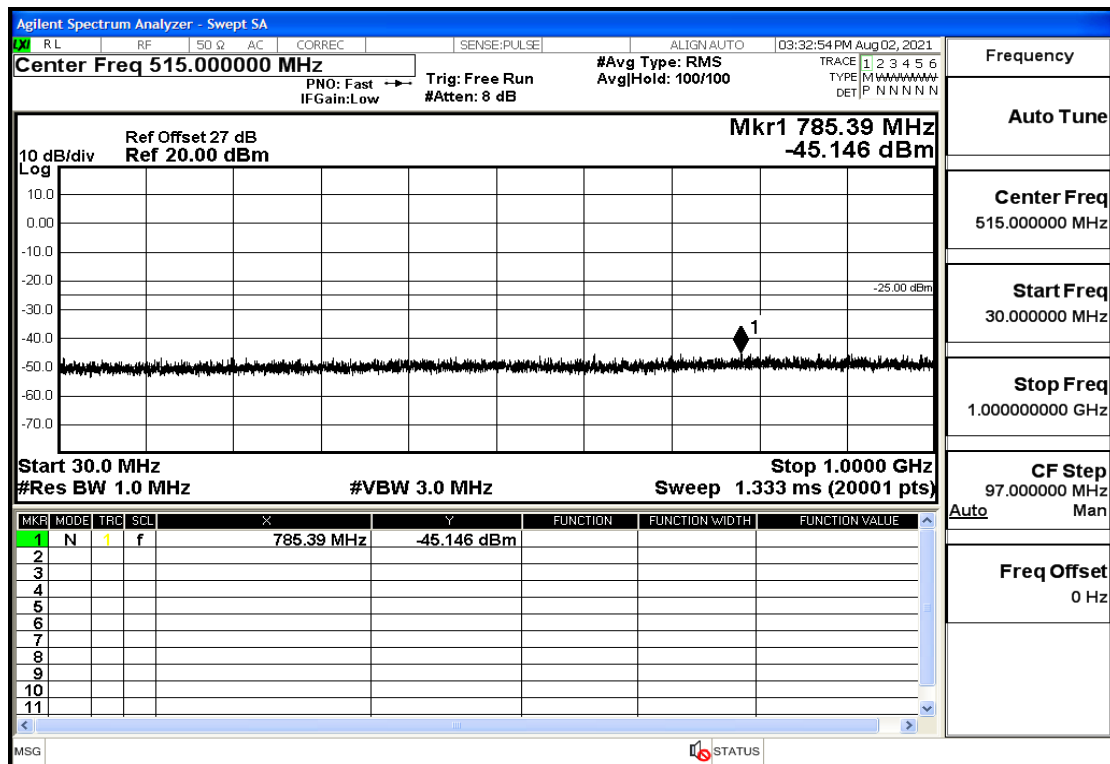
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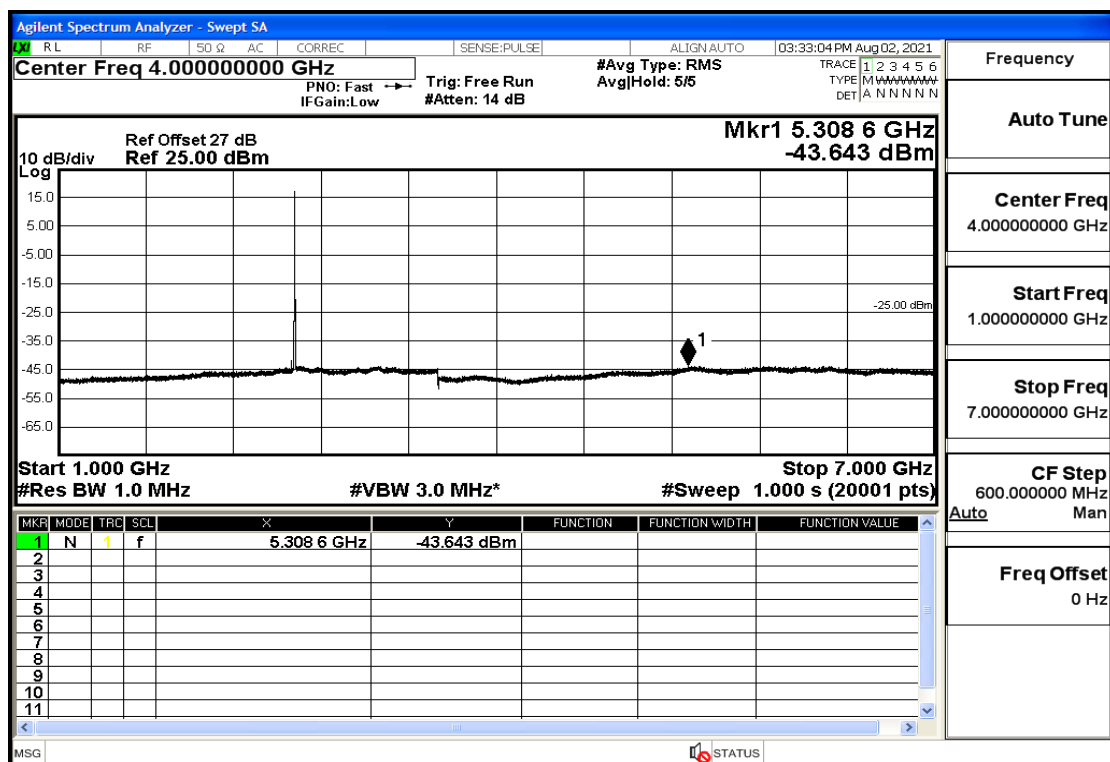
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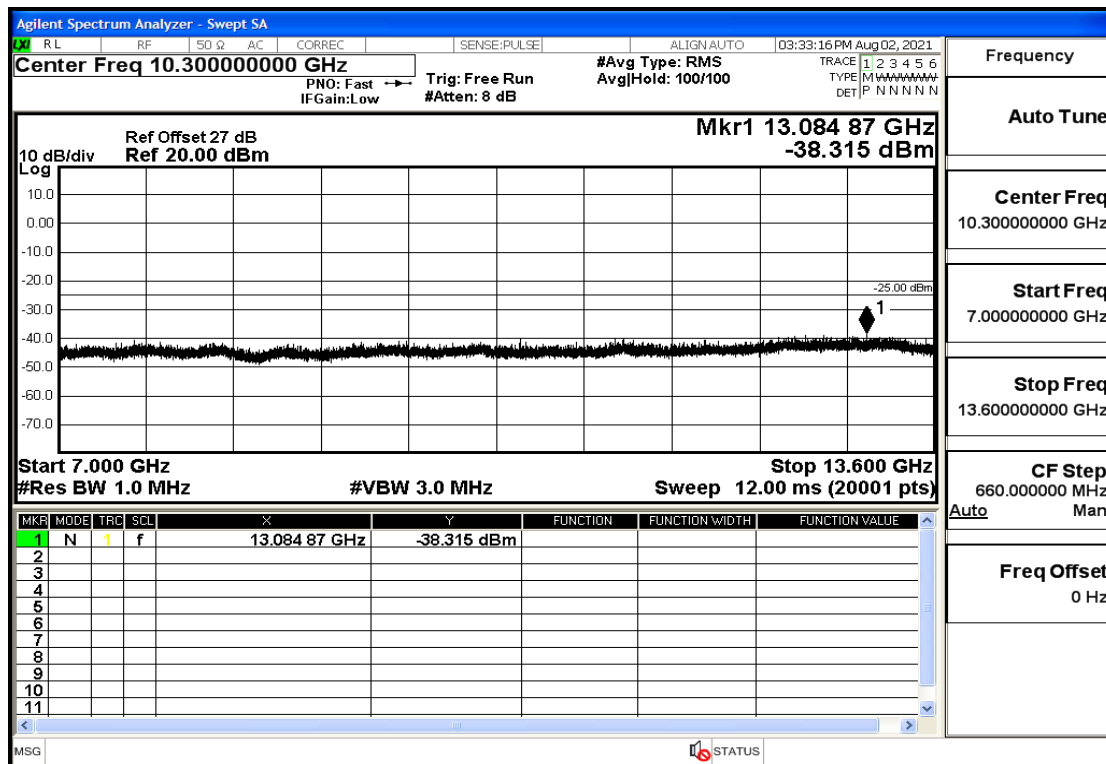
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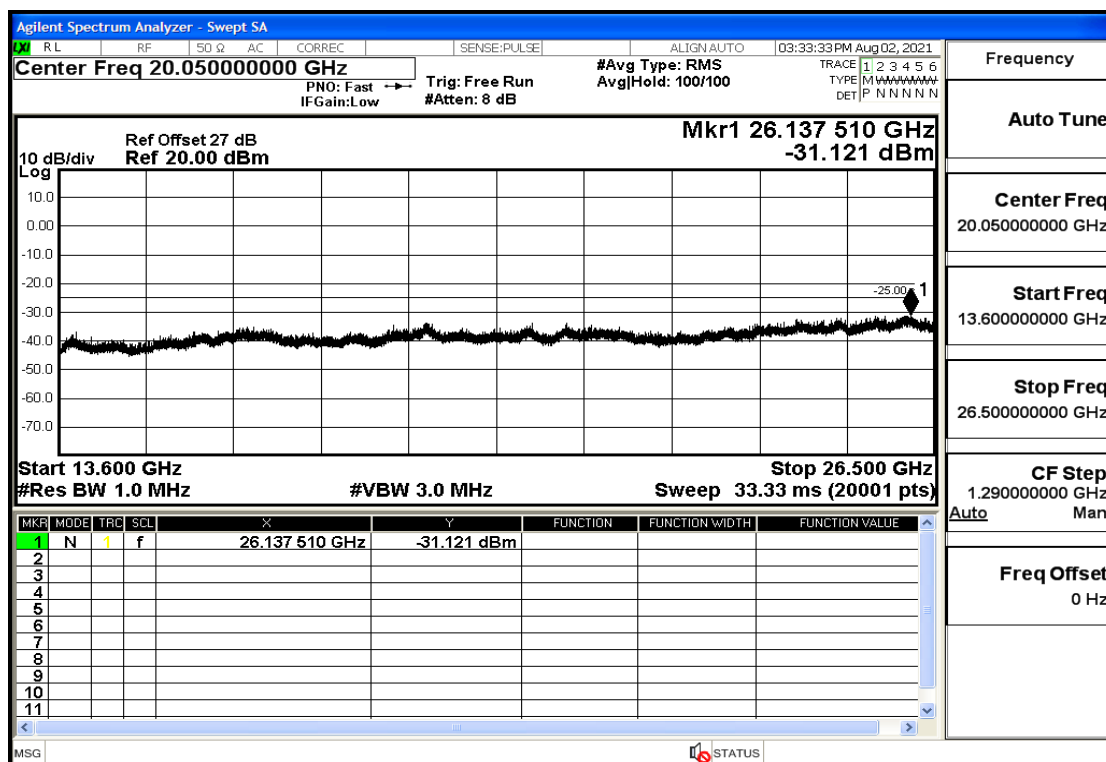
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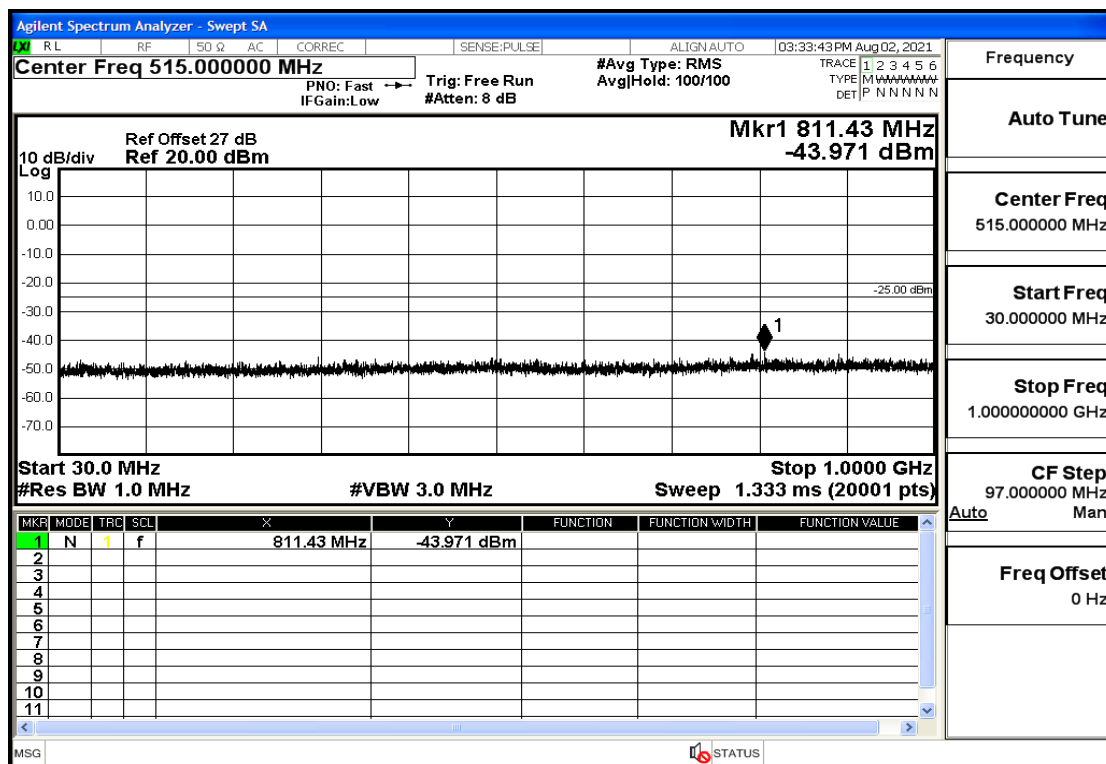
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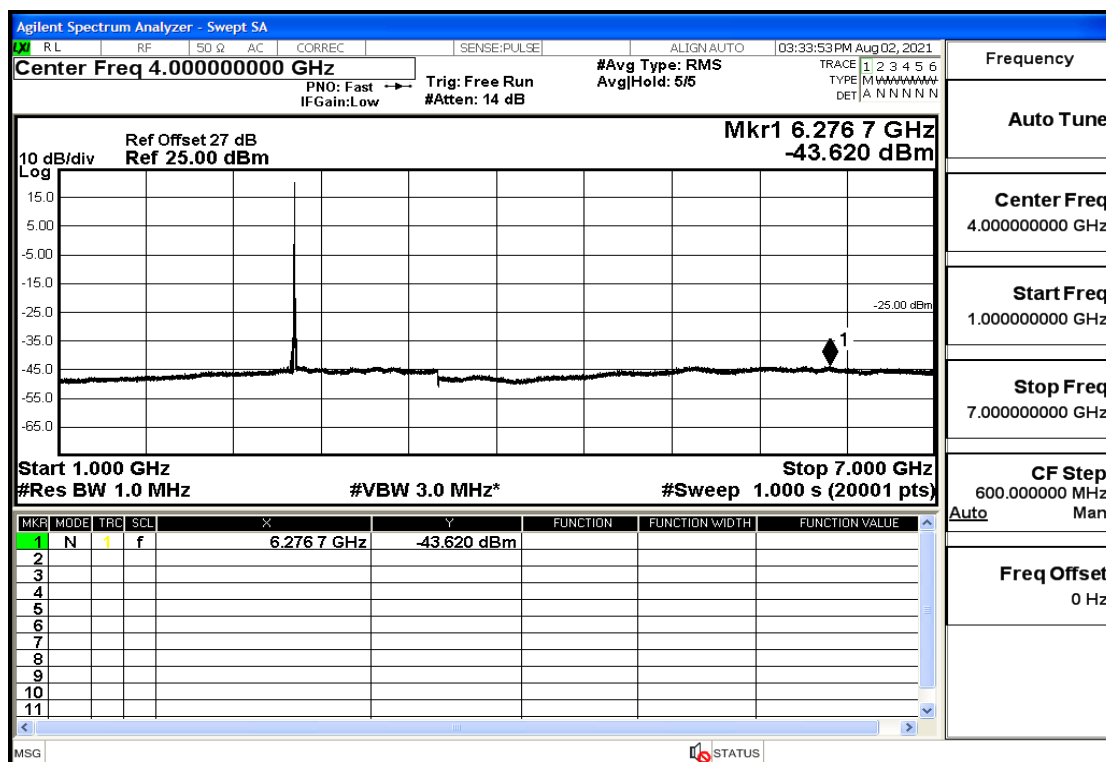
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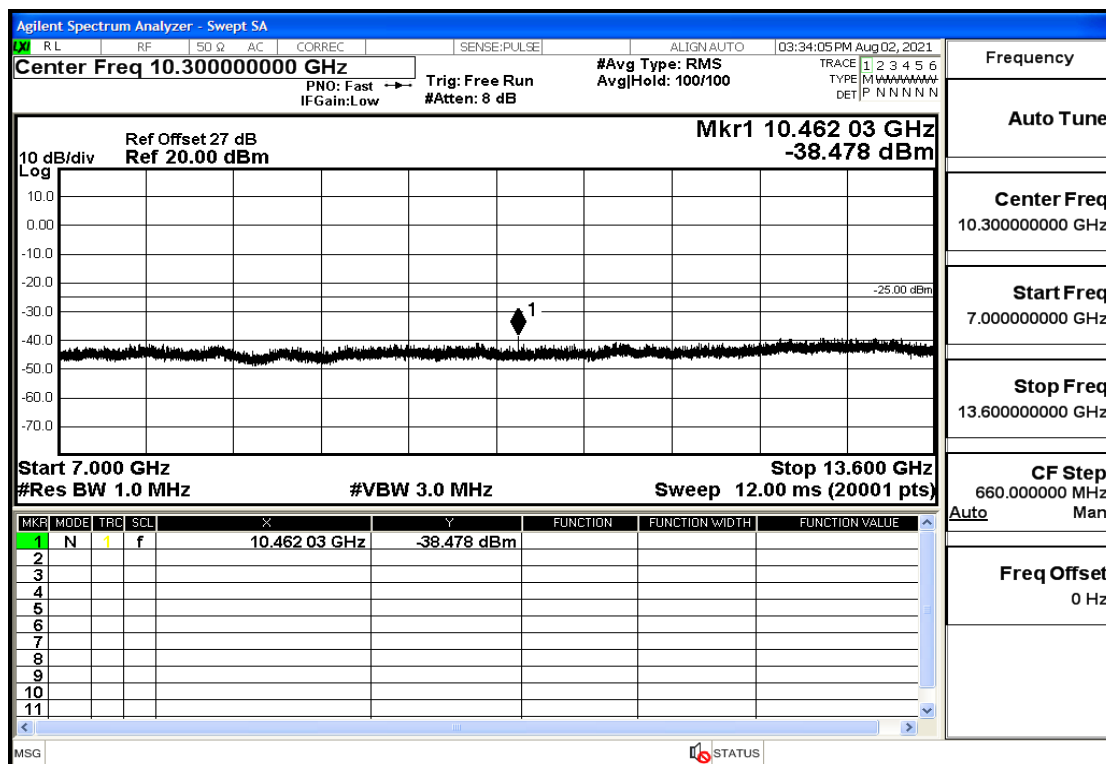
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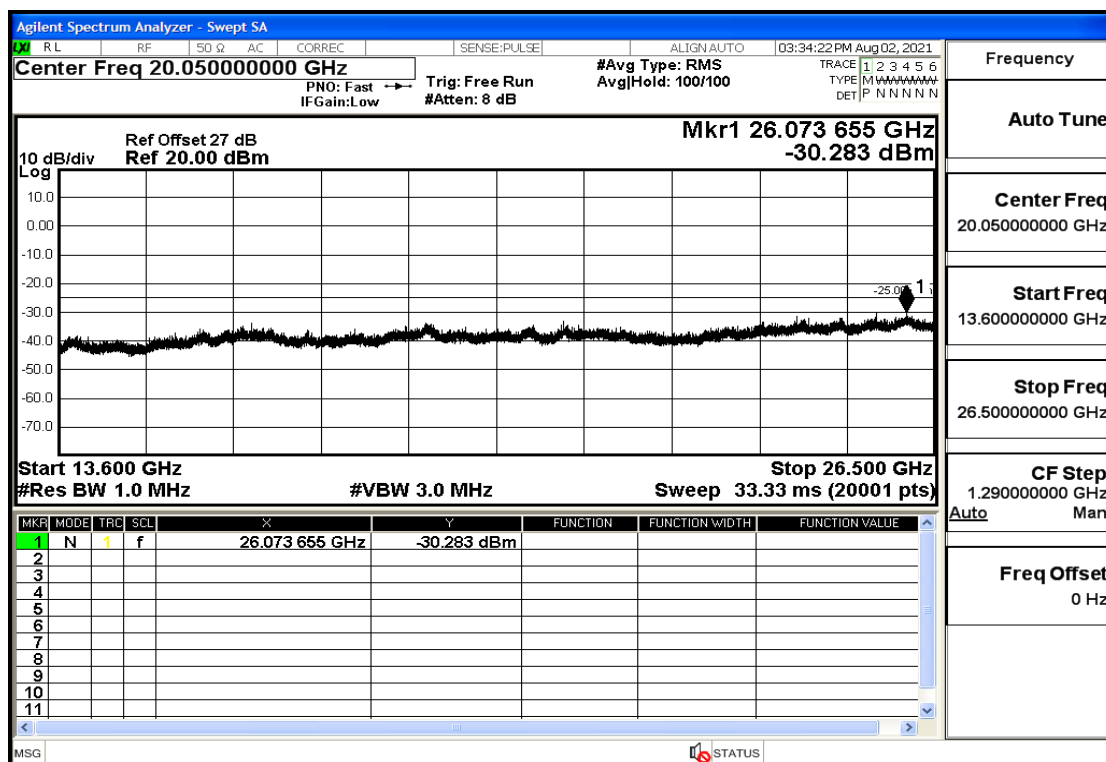
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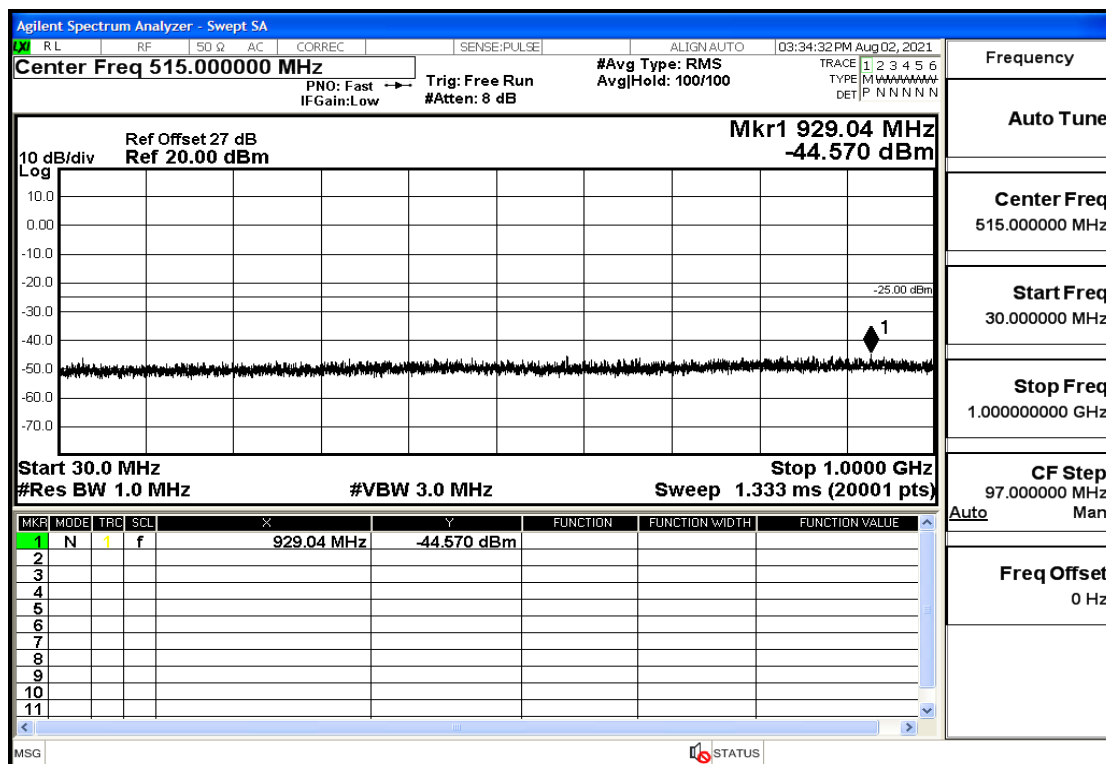
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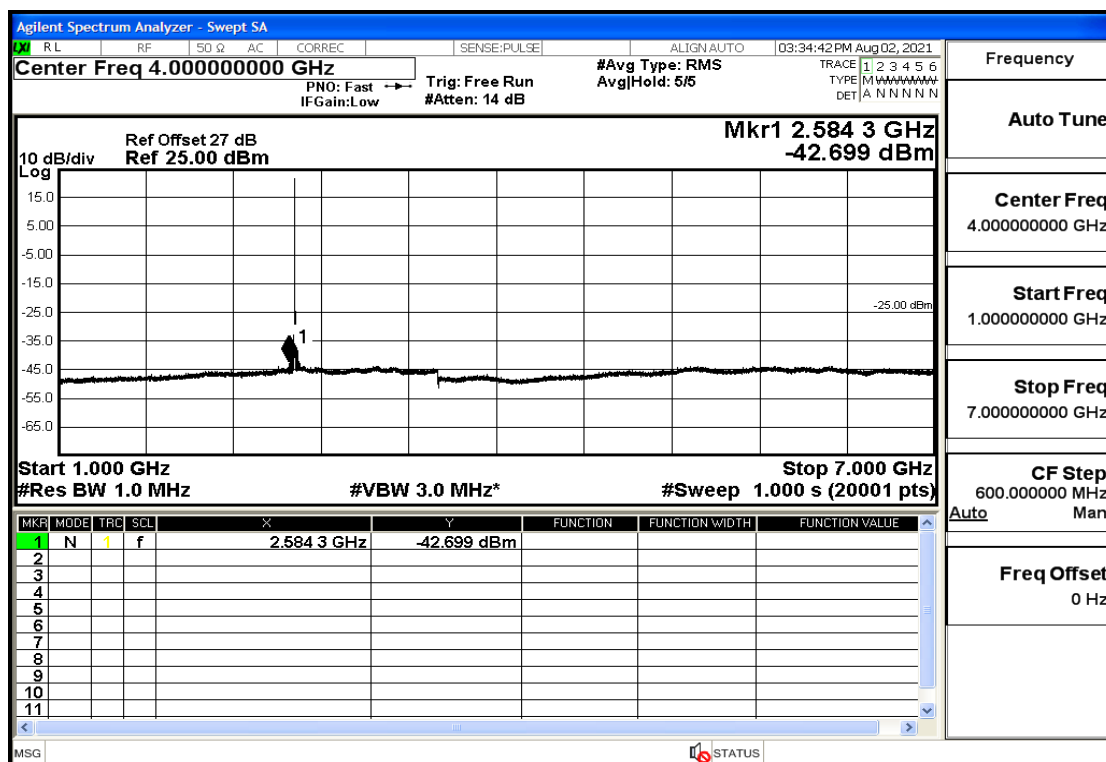
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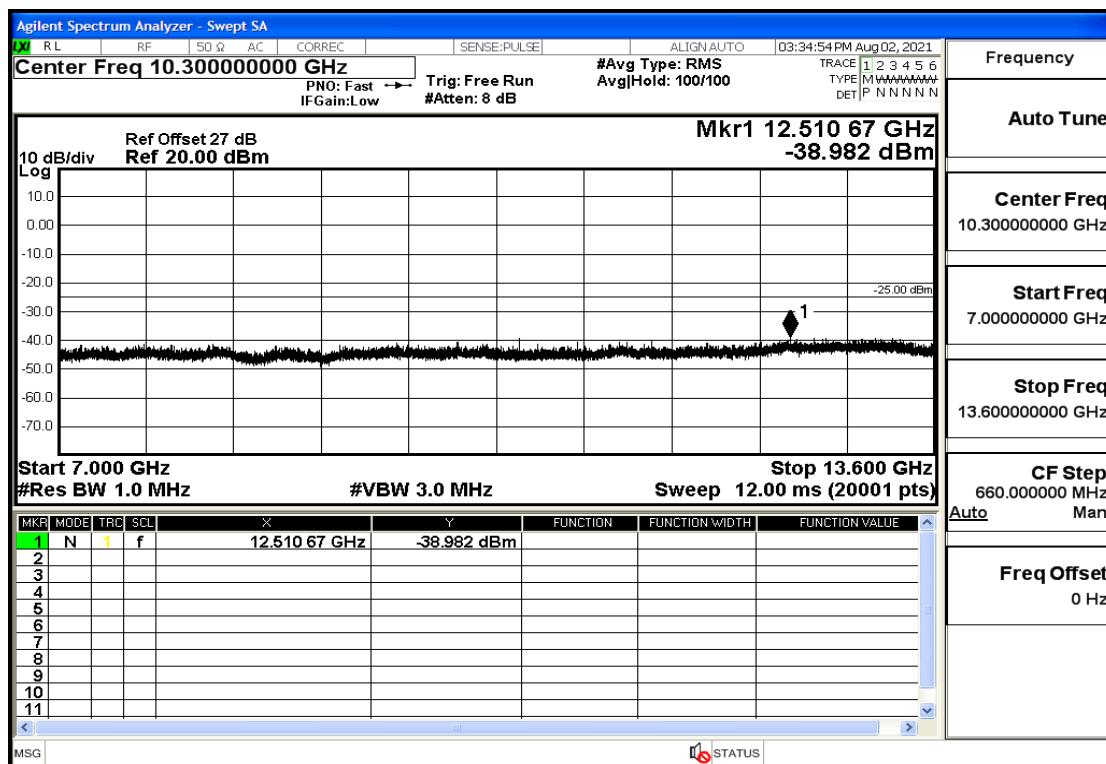
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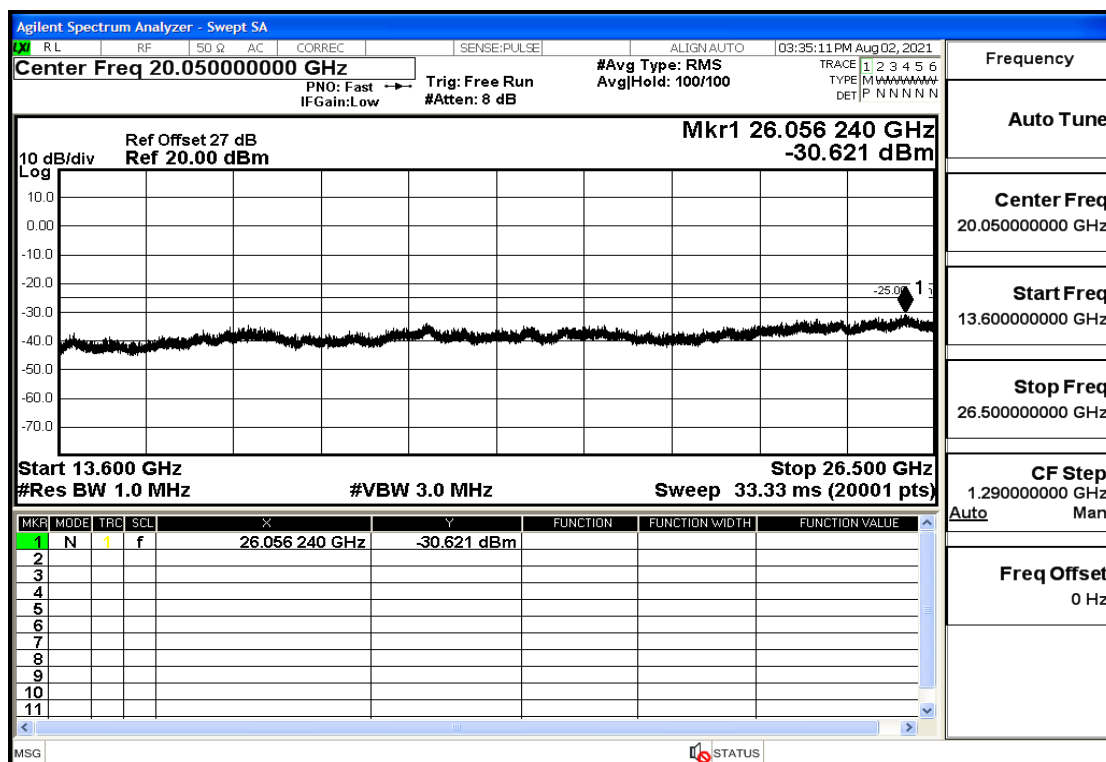
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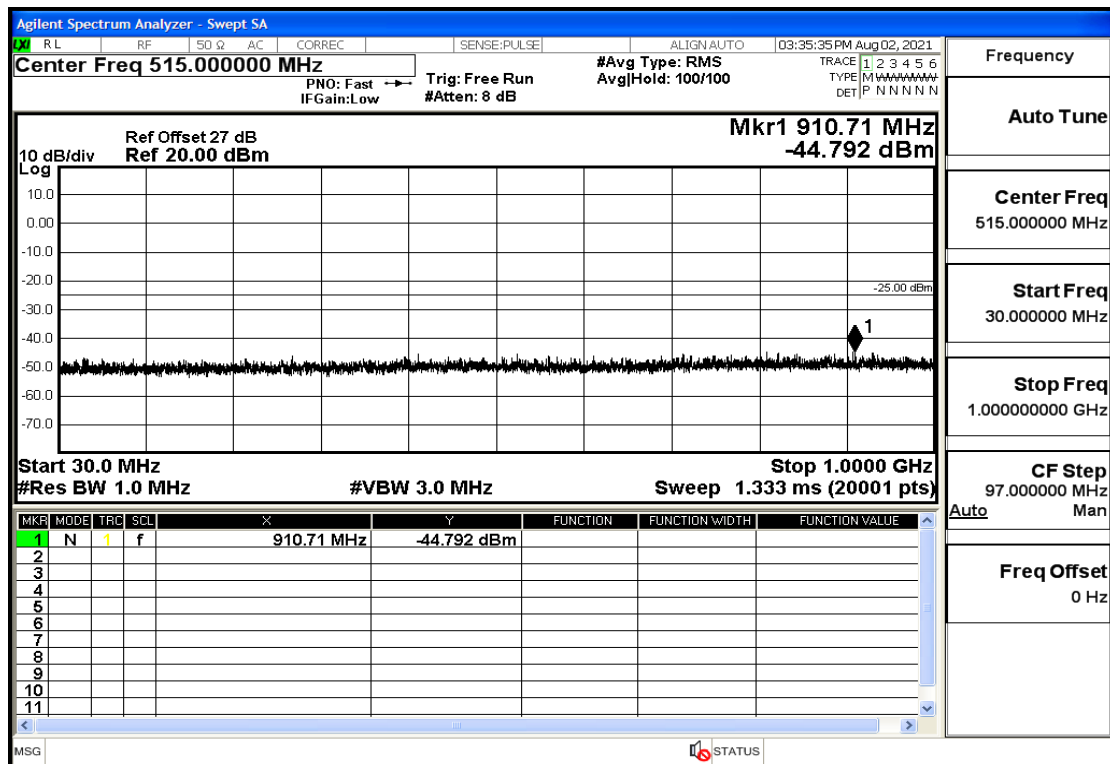
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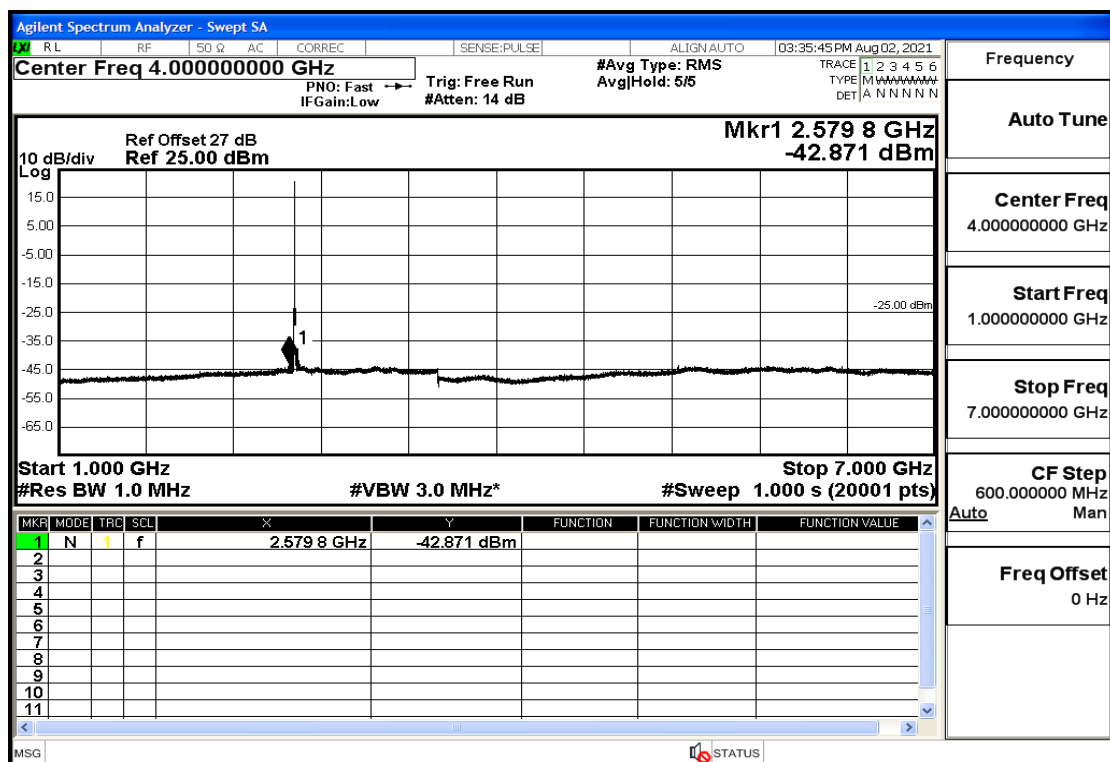
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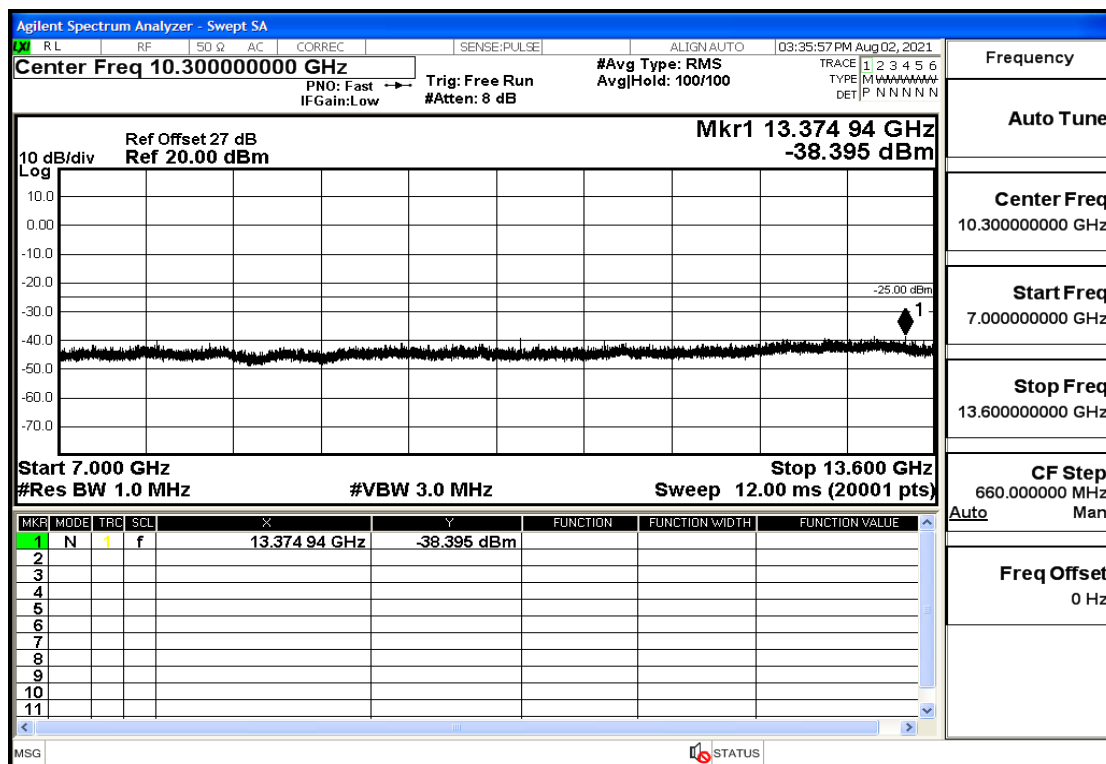
OB38-5-2617.5-Q16-1#HIGH@30mHz-1GHz@Pass



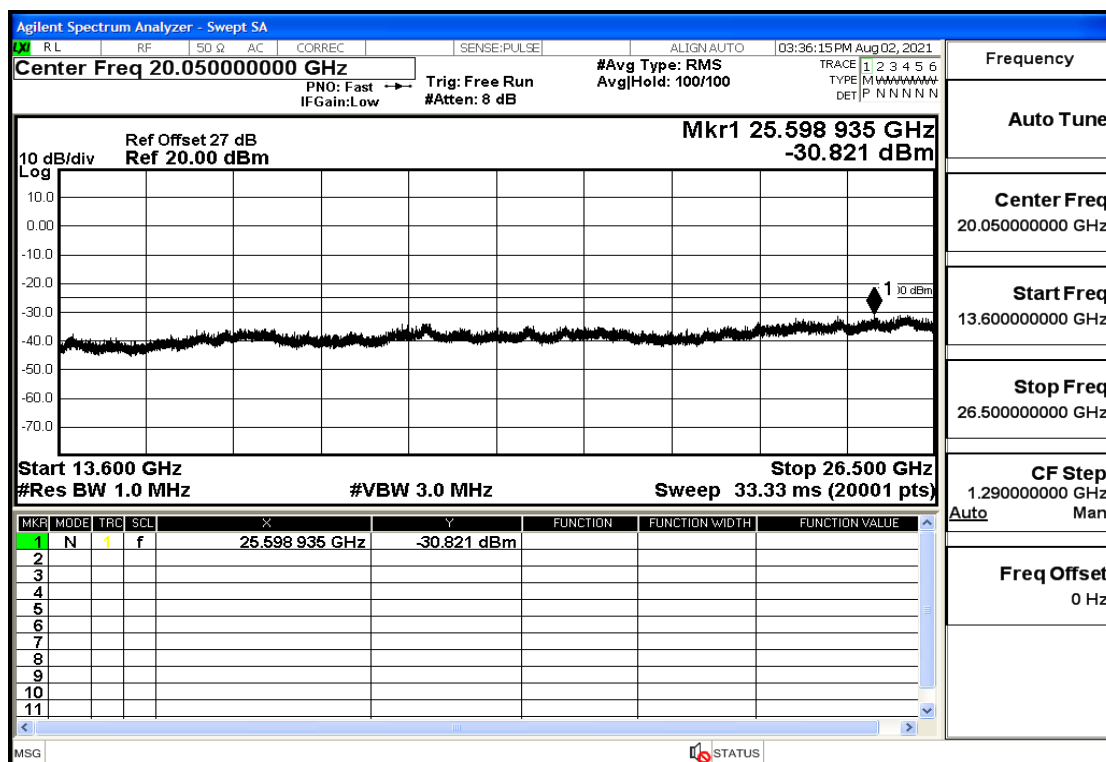
OB38-5-2617.5-Q16-1#HIGH@1GHz-7GHz@Pass



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



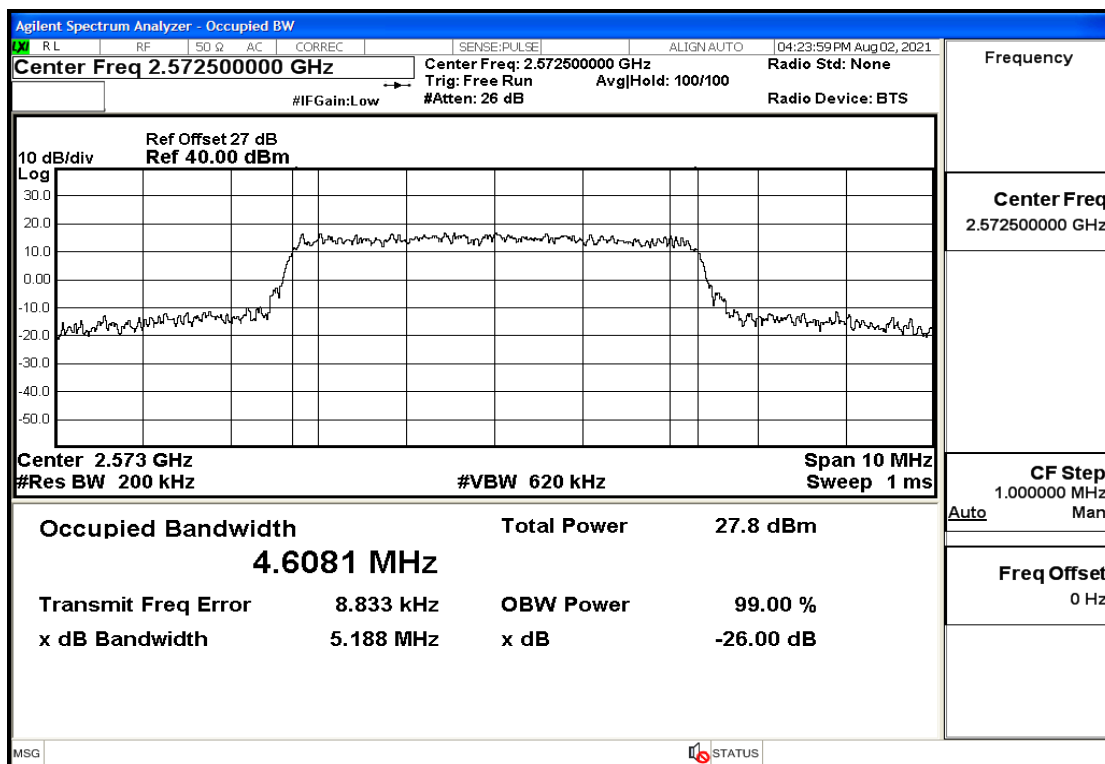
OB38-5-2617.5-Q16-1#HIGH@13.6GHz-26.5GHz@Pass



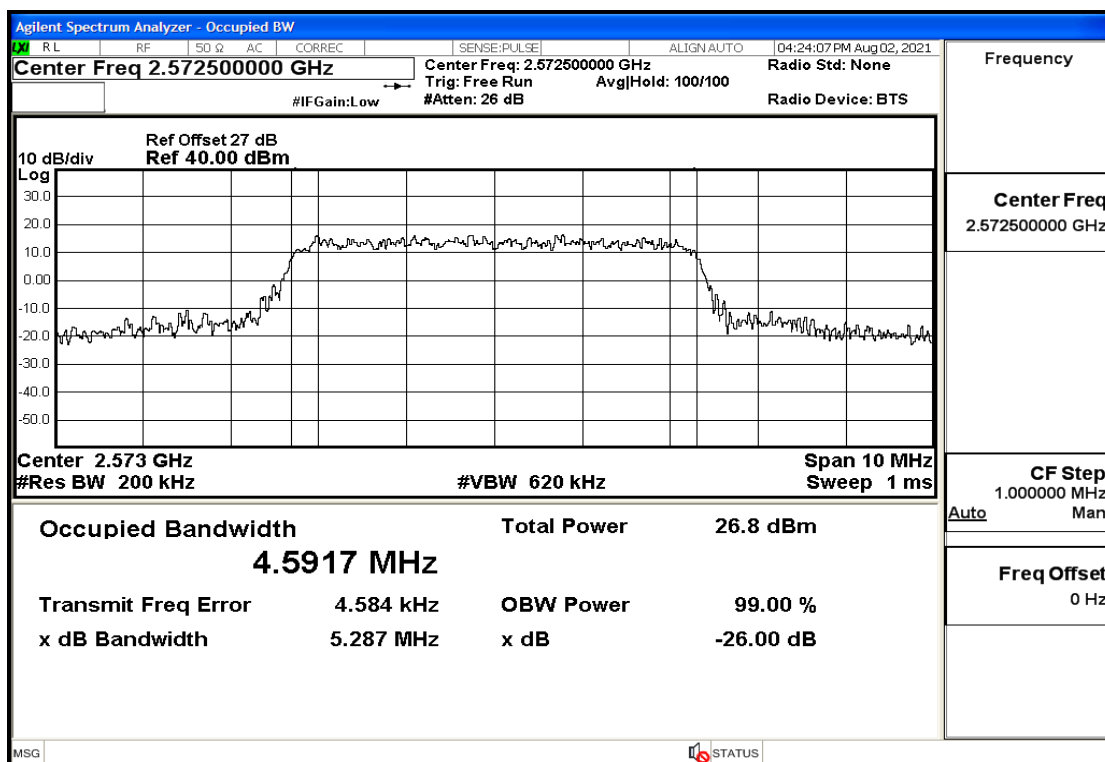
Emission bandwidth and OBW

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

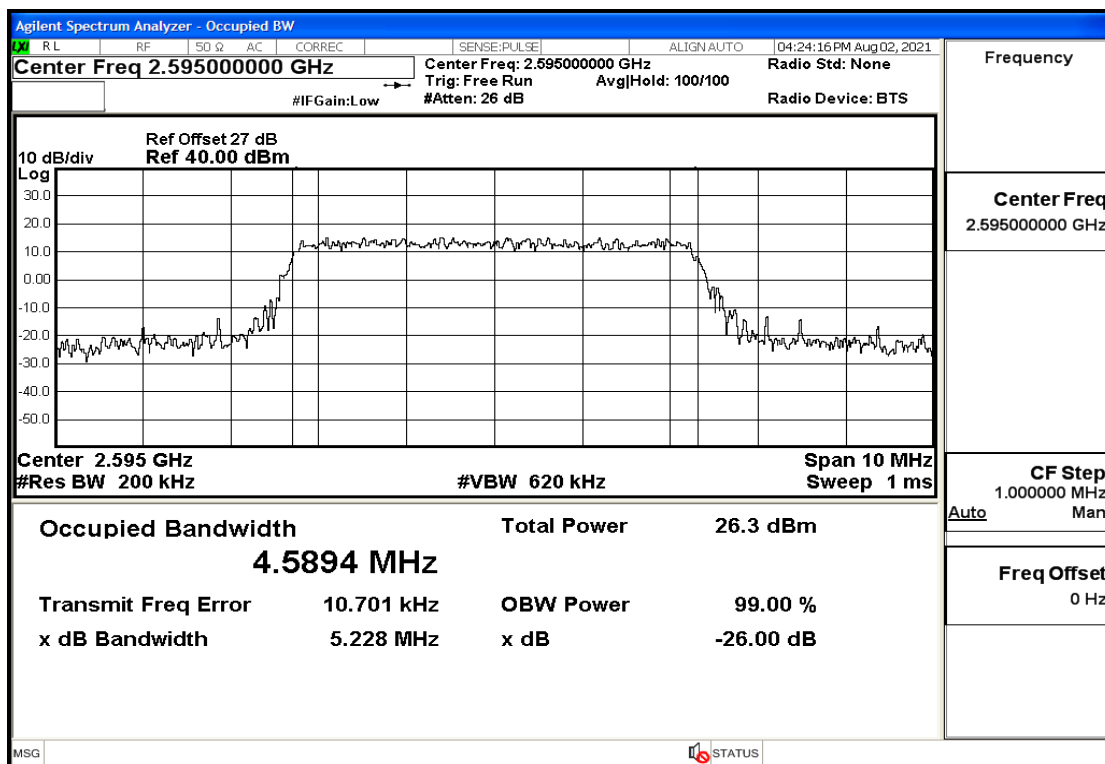
Band38-5-2572.5-QPSK-25#LOW@26dB and 99PCT Bandwidth



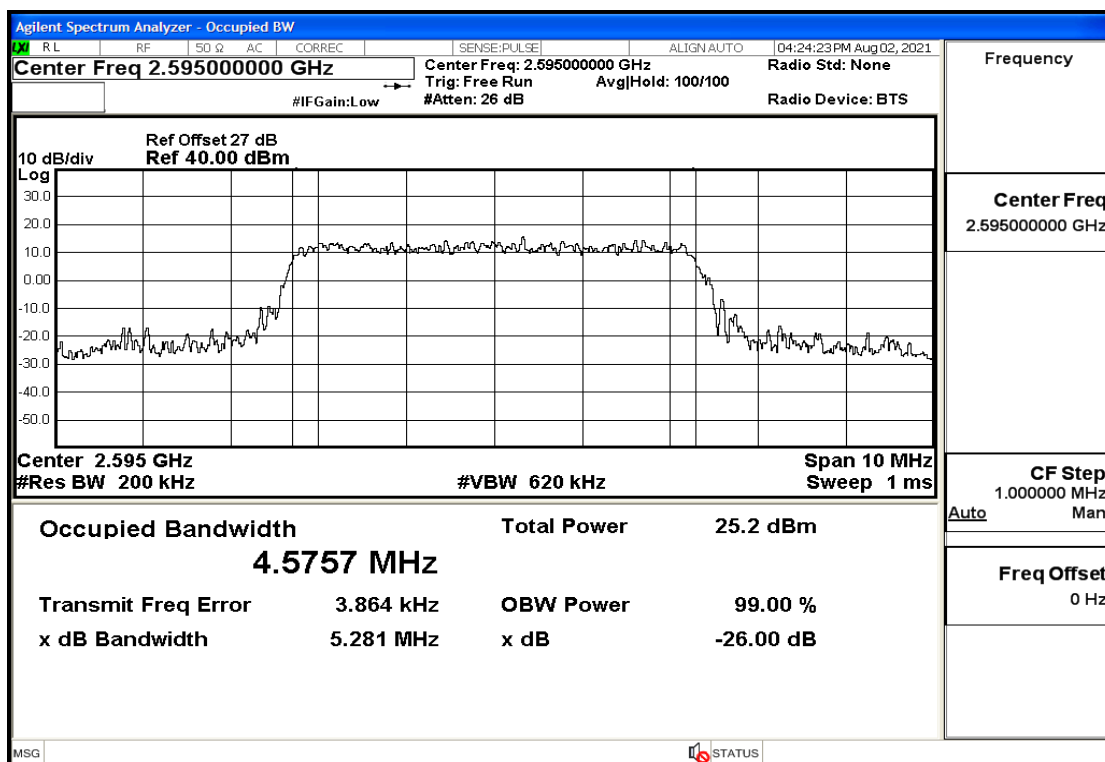
Band38-5-2572.5-16QAM-25#LOW@26dB and 99PCT Bandwidth



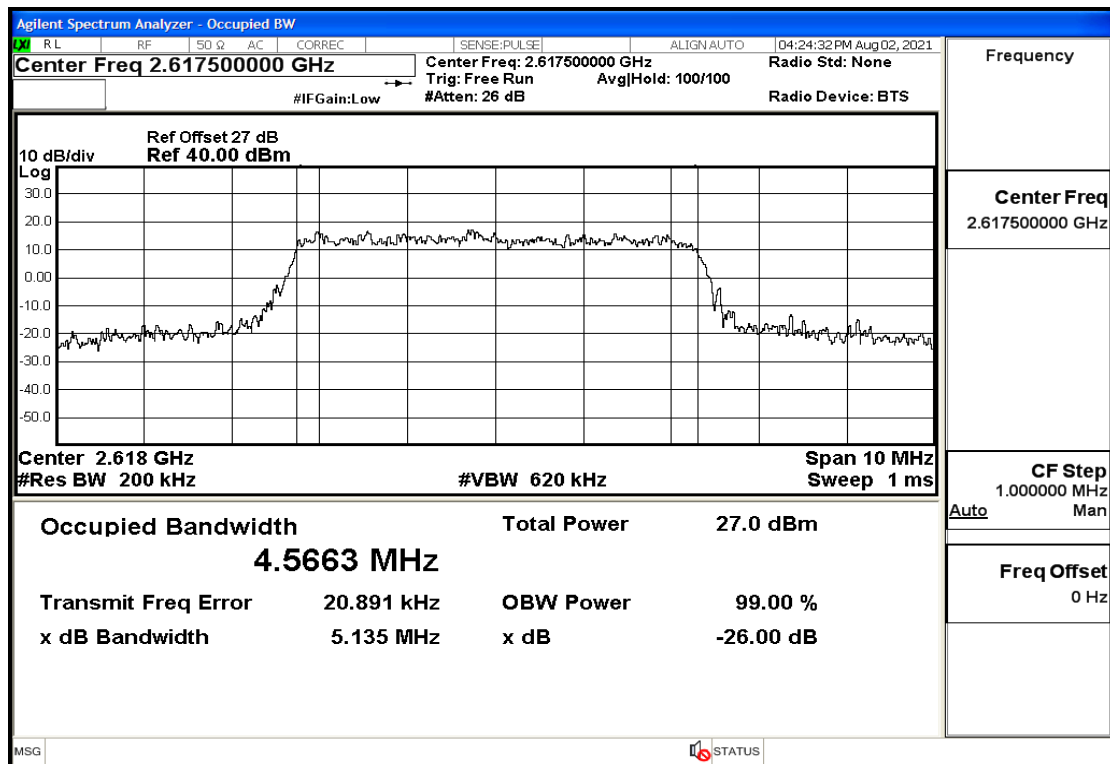
Band38-5-2595-QPSK-25#LOW@26dB and 99PCT Bandwidth



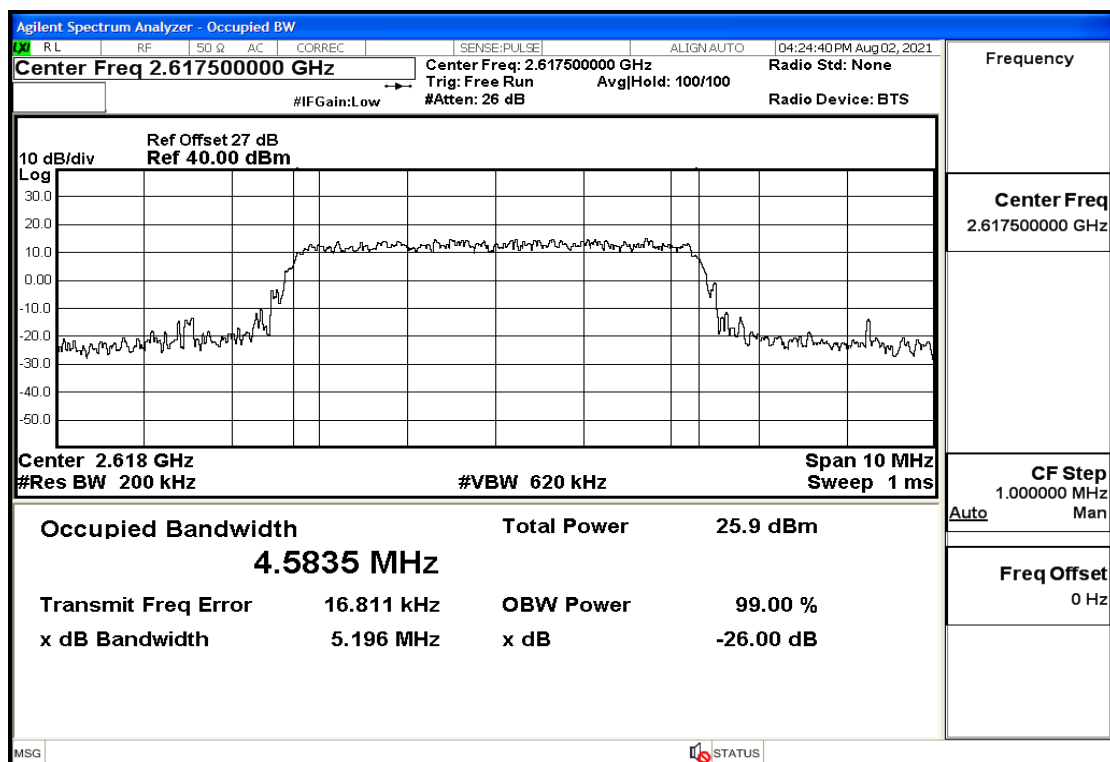
Band38-5-2595-16QAM-25#LOW@26dB and 99PCT Bandwidth



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