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Band7_10MHz_16QAM_20800_1RB#0



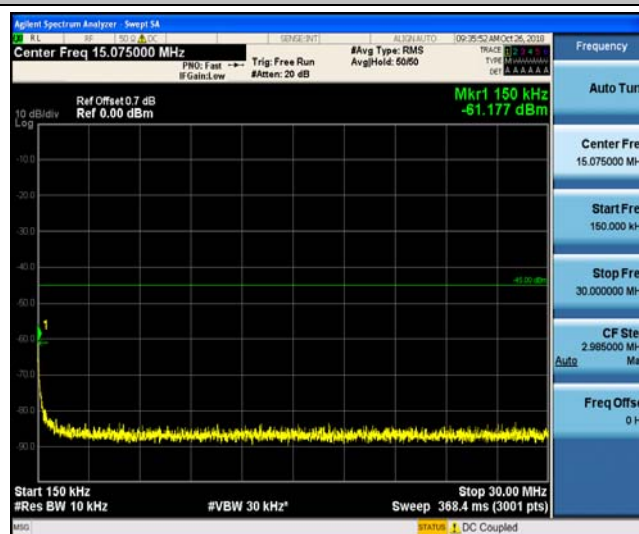
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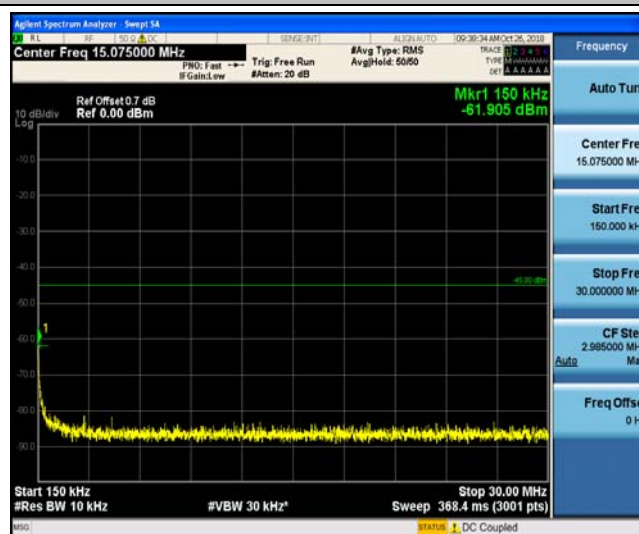
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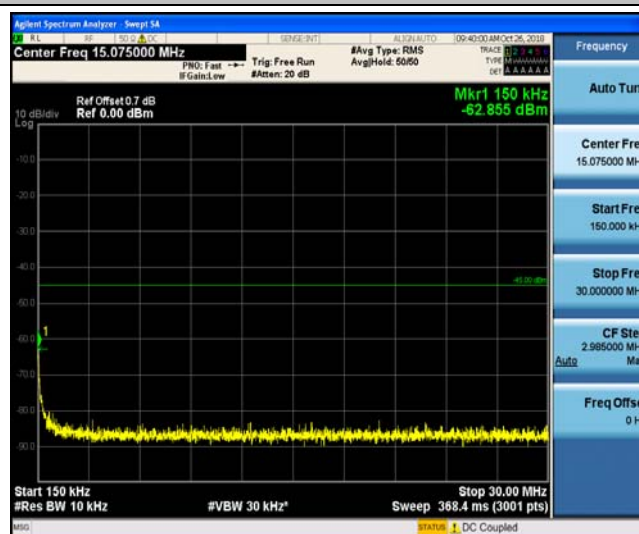
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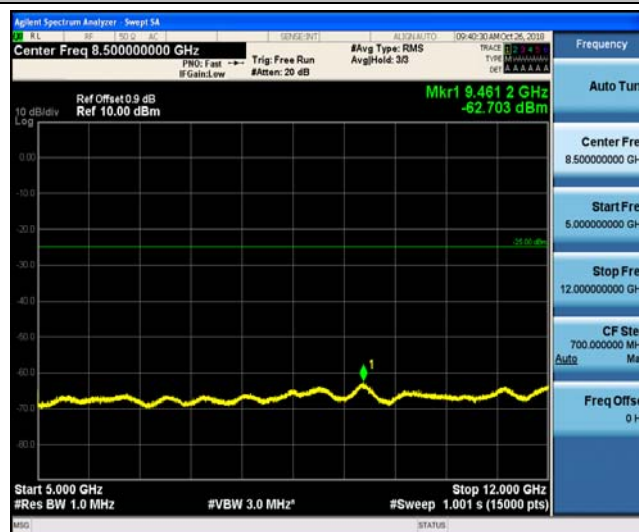
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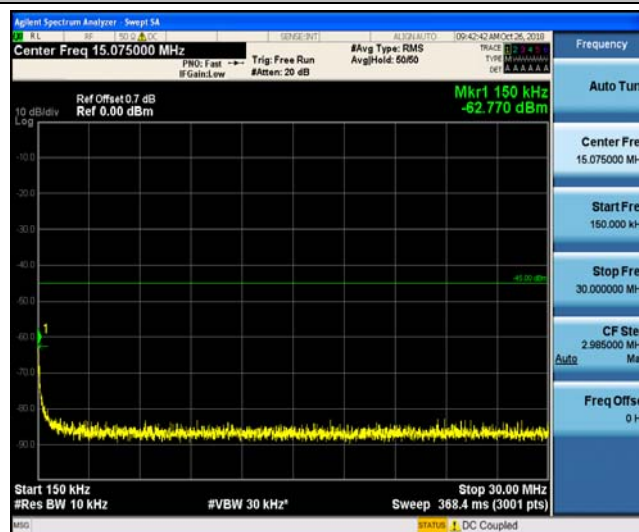
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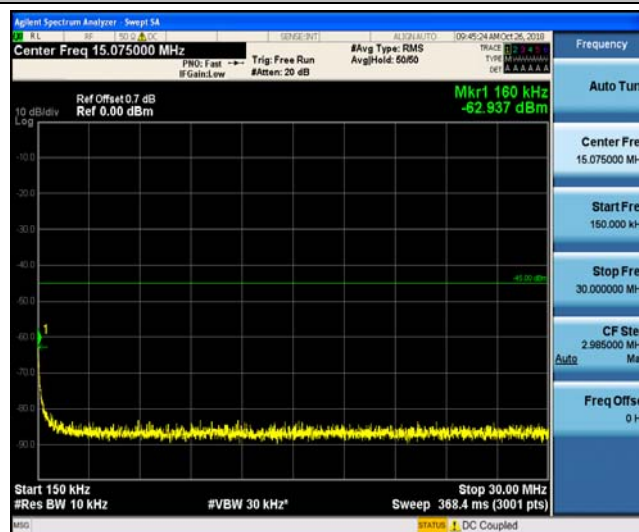
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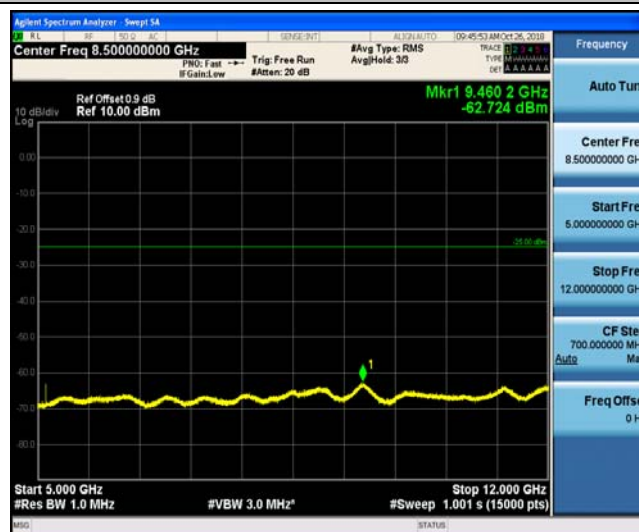
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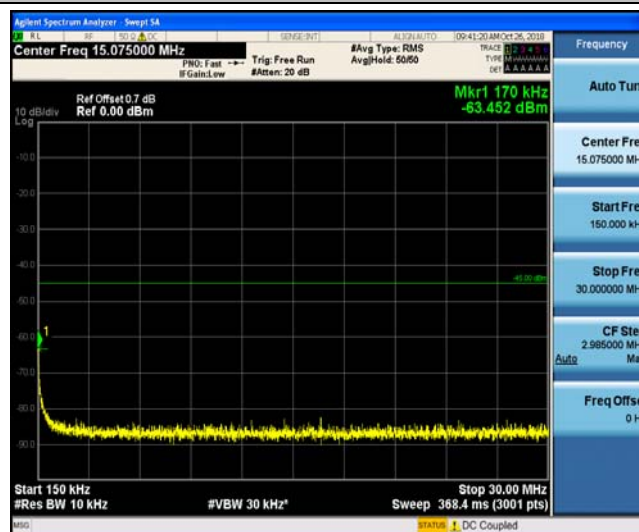
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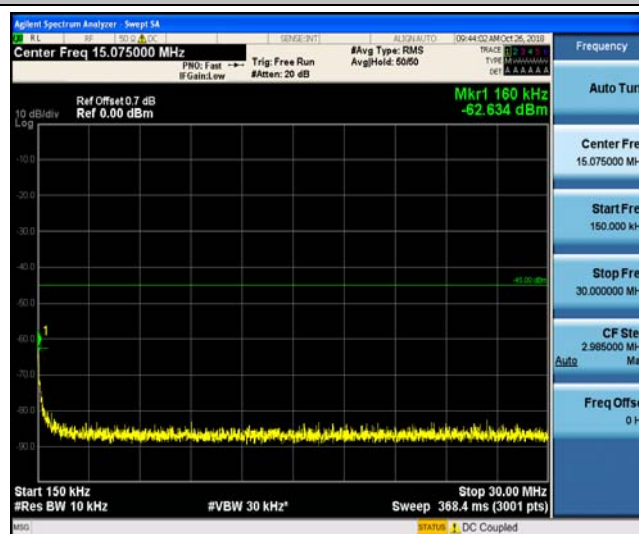
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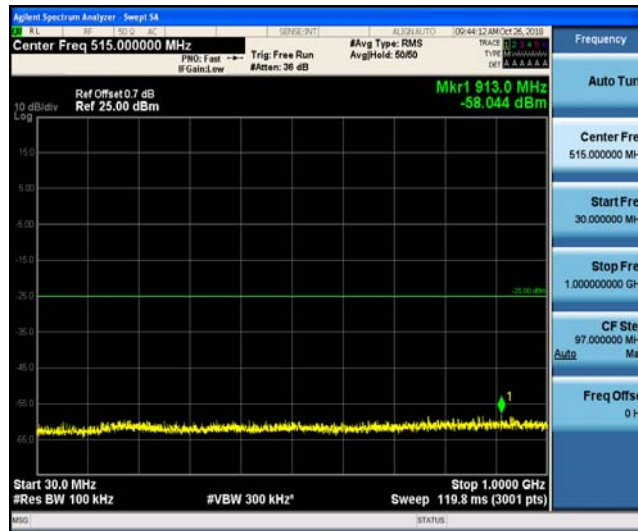
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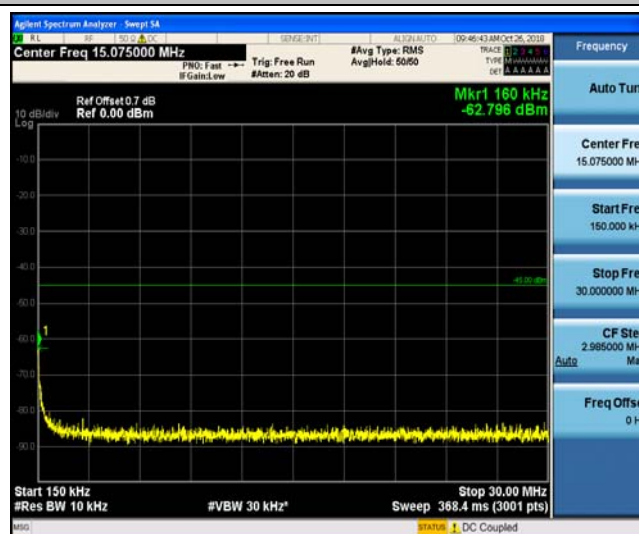
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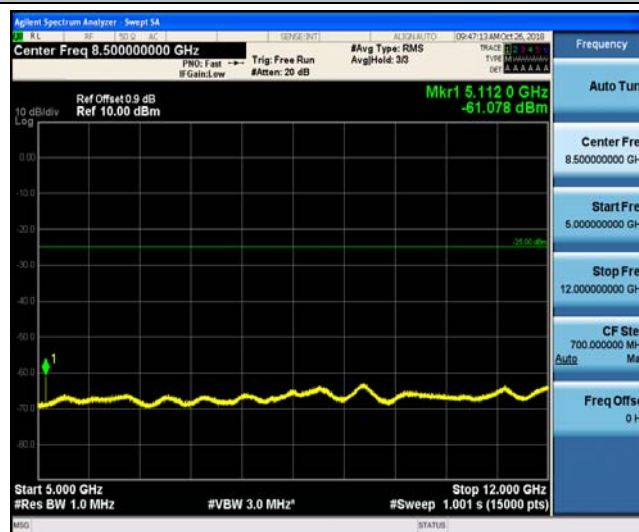
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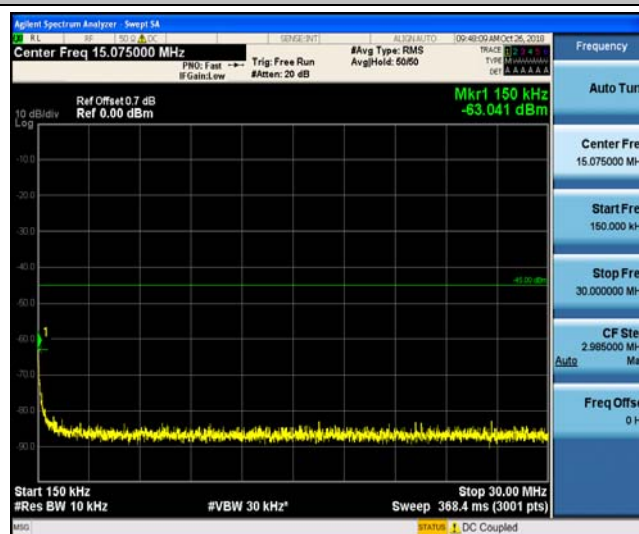
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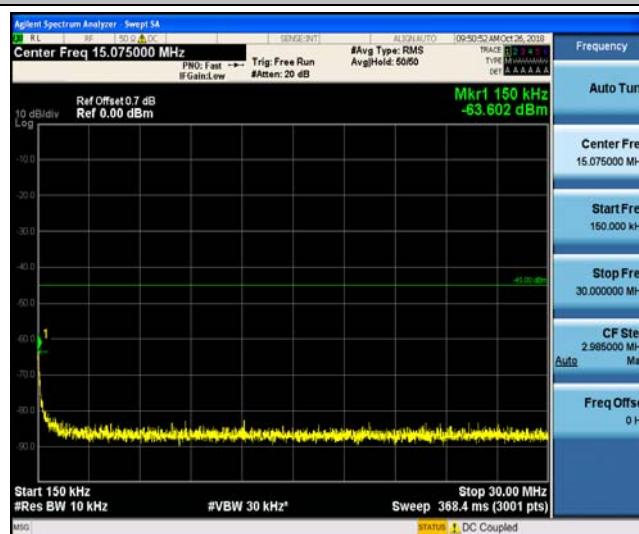
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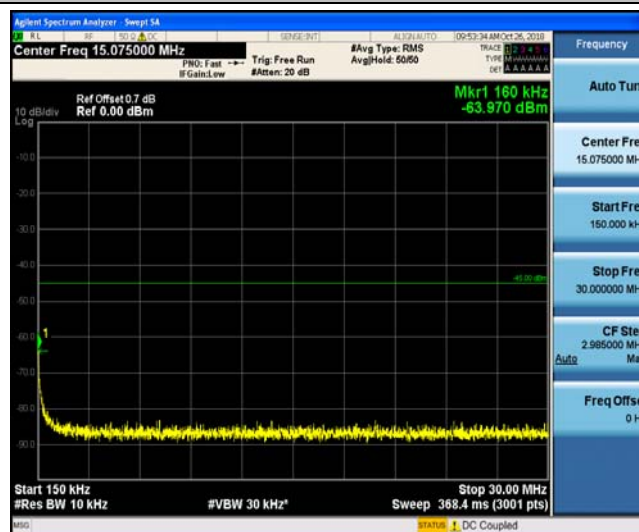
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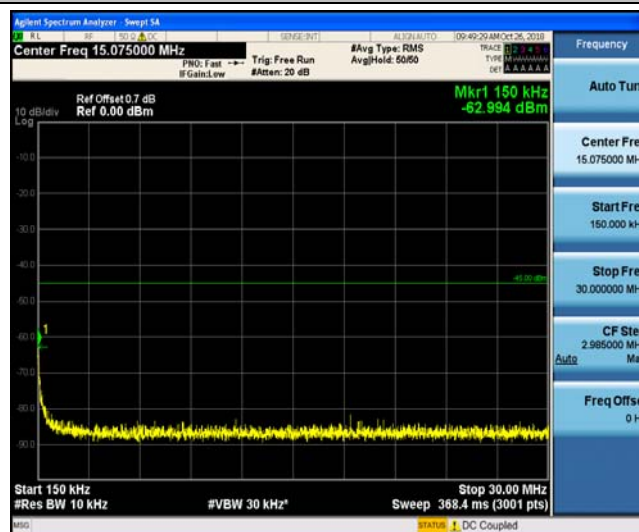
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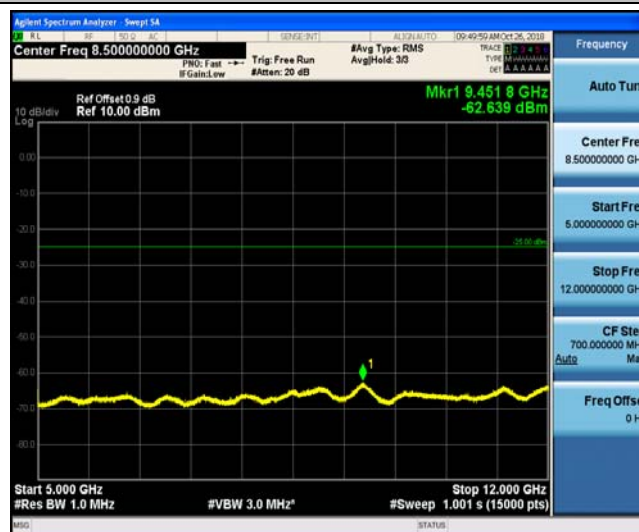
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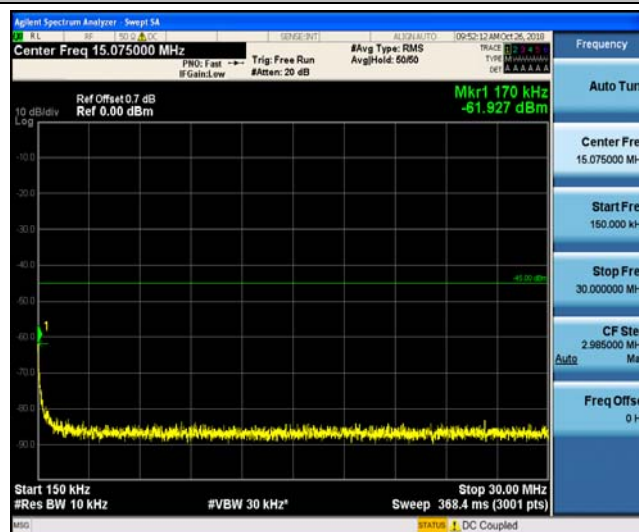
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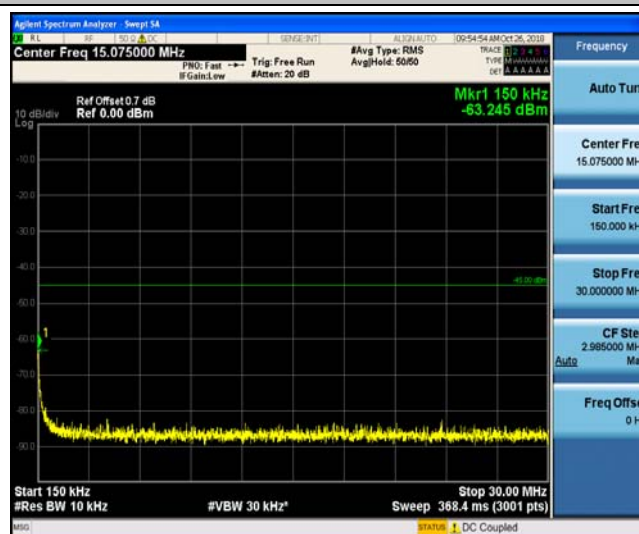
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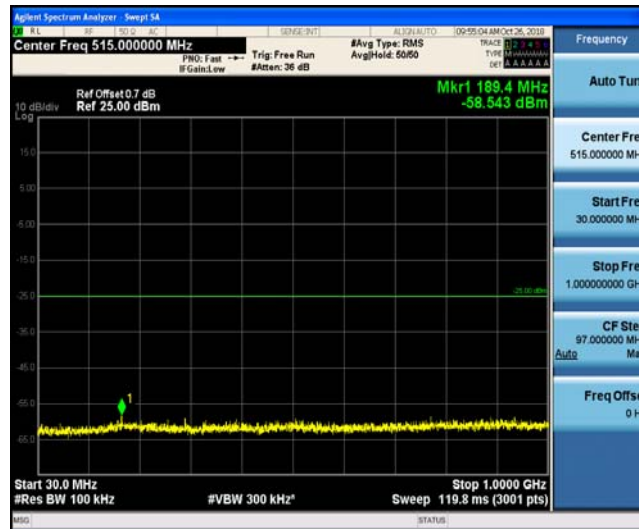
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Band7_20MHz_16QAM_21350_1RB#0



Band7_20MHz_16QAM_21350_1RB#0



Band7_20MHz_16QAM_21350_1RB#0



Appendix F: Frequency Stability

Test Result

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	1.71	0.000683	± 2.5	PASS
		VN	TN	-1.65	-0.000659	± 2.5	PASS
		VH	TN	3.11	0.001243	± 2.5	PASS
	MCH	VL	TN	0.97	0.000383	± 2.5	PASS
		VN	TN	3.07	0.001211	± 2.5	PASS
		VH	TN	4.31	0.001700	± 2.5	PASS
	HCH	VL	TN	0.99	0.000386	± 2.5	PASS
		VN	TN	4.04	0.001574	± 2.5	PASS
		VH	TN	4.45	0.001733	± 2.5	PASS
16QAM	LCH	VL	TN	4.32	0.001726	± 2.5	PASS
		VN	TN	0.24	0.000096	± 2.5	PASS
		VH	TN	2.4	0.000959	± 2.5	PASS
	MCH	VL	TN	4.22	0.001665	± 2.5	PASS
		VN	TN	0.97	0.000383	± 2.5	PASS
		VH	TN	-0.72	-0.000284	± 2.5	PASS
	HCH	VL	TN	4.74	0.001846	± 2.5	PASS
		VN	TN	3.71	0.001445	± 2.5	PASS
		VH	TN	-1.55	-0.000604	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.52	0.001407	± 2.5	PASS
		VN	-20	4.04	0.001614	± 2.5	PASS
		VN	-10	4.68	0.001870	± 2.5	PASS
		VN	0	3.51	0.001403	± 2.5	PASS
		VN	10	3.61	0.001443	± 2.5	PASS
		VN	20	3.17	0.001267	± 2.5	PASS
		VN	30	4.12	0.001646	± 2.5	PASS
		VN	40	3.29	0.001315	± 2.5	PASS
		VN	50	3.62	0.001447	± 2.5	PASS
	MCH	VN	-30	0.72	0.000284	± 2.5	PASS
		VN	-20	1.06	0.000418	± 2.5	PASS
		VN	-10	-1.26	-0.000497	± 2.5	PASS

		VN	0	0.46	0.000181	± 2.5	PASS
		VN	10	5	0.001972	± 2.5	PASS
		VN	20	2.61	0.001030	± 2.5	PASS
		VN	30	4.69	0.001850	± 2.5	PASS
		VN	40	2.65	0.001045	± 2.5	PASS
		VN	50	4.77	0.001882	± 2.5	PASS
	HCH	VN	-30	3.29	0.001281	± 2.5	PASS
		VN	-20	2.39	0.000931	± 2.5	PASS
		VN	-10	2.45	0.000954	± 2.5	PASS
		VN	0	-1.11	-0.000432	± 2.5	PASS
		VN	10	2.39	0.000931	± 2.5	PASS
		VN	20	1.62	0.000631	± 2.5	PASS
		VN	30	3.11	0.001211	± 2.5	PASS
		VN	40	0.25	0.000097	± 2.5	PASS
		VN	50	-0.78	-0.000304	± 2.5	PASS
16QAM	LCH	VN	-30	-0.57	-0.000228	± 2.5	PASS
		VN	-20	3.93	0.001570	± 2.5	PASS
		VN	-10	4.92	0.001966	± 2.5	PASS
		VN	0	3.03	0.001211	± 2.5	PASS
		VN	10	3.3	0.001319	± 2.5	PASS
		VN	20	3.47	0.001387	± 2.5	PASS
		VN	30	-1.13	-0.000452	± 2.5	PASS
		VN	40	2.82	0.001127	± 2.5	PASS
		VN	50	3.52	0.001407	± 2.5	PASS
	MCH	VN	-30	-1.39	-0.000548	± 2.5	PASS
		VN	-20	3.58	0.001412	± 2.5	PASS
		VN	-10	-1.07	-0.000422	± 2.5	PASS
		VN	0	0.03	0.000012	± 2.5	PASS
		VN	10	0.61	0.000241	± 2.5	PASS
		VN	20	1.75	0.000690	± 2.5	PASS
		VN	30	-0.7	-0.000276	± 2.5	PASS
		VN	40	-0.5	-0.000197	± 2.5	PASS
		VN	50	2.83	0.001116	± 2.5	PASS
	HCH	VN	-30	1.73	0.000674	± 2.5	PASS
		VN	-20	0.33	0.000129	± 2.5	PASS
		VN	-10	2.16	0.000841	± 2.5	PASS
		VN	0	4.85	0.001889	± 2.5	PASS
		VN	10	-1.33	-0.000518	± 2.5	PASS
		VN	20	3.65	0.001422	± 2.5	PASS
		VN	30	4.78	0.001862	± 2.5	PASS
		VN	40	3.42	0.001332	± 2.5	PASS

		VN	50	1.24	0.000483	± 2.5	PASS
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Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	0.26	0.000104	± 2.5	PASS
		VN	TN	3.46	0.001381	± 2.5	PASS
		VH	TN	4.74	0.001892	± 2.5	PASS
	MCH	VL	TN	-1.26	-0.000497	± 2.5	PASS
		VN	TN	4.7	0.001854	± 2.5	PASS
		VH	TN	1.17	0.000462	± 2.5	PASS
	HCH	VL	TN	0.92	0.000359	± 2.5	PASS
		VN	TN	0.9	0.000351	± 2.5	PASS
		VH	TN	0.77	0.000300	± 2.5	PASS
16QAM	LCH	VL	TN	2.49	0.000994	± 2.5	PASS
		VN	TN	2.92	0.001166	± 2.5	PASS
		VH	TN	3.38	0.001349	± 2.5	PASS
	MCH	VL	TN	-0.55	-0.000217	± 2.5	PASS
		VN	TN	-0.02	-0.000008	± 2.5	PASS
		VH	TN	2.14	0.000844	± 2.5	PASS
	HCH	VL	TN	0.48	0.000187	± 2.5	PASS
		VN	TN	0.3	0.000117	± 2.5	PASS
		VH	TN	-1.6	-0.000624	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.03	0.000012	± 2.5	PASS
		VN	-20	1.83	0.000731	± 2.5	PASS
		VN	-10	0.23	0.000092	± 2.5	PASS
		VN	0	-1.68	-0.000671	± 2.5	PASS
		VN	10	3.31	0.001321	± 2.5	PASS
		VN	20	4.71	0.001880	± 2.5	PASS
		VN	30	-0.36	-0.000144	± 2.5	PASS
		VN	40	4.2	0.001677	± 2.5	PASS
		VN	50	0.3	0.000120	± 2.5	PASS
	MCH	VN	-30	4.91	0.001937	± 2.5	PASS
		VN	-20	3.15	0.001243	± 2.5	PASS
		VN	-10	1.16	0.000458	± 2.5	PASS
		VN	0	0.58	0.000229	± 2.5	PASS

		VN	10	1.11	0.000438	± 2.5	PASS
		VN	20	3.89	0.001535	± 2.5	PASS
		VN	30	2.94	0.001160	± 2.5	PASS
		VN	40	-0.32	-0.000126	± 2.5	PASS
		VN	50	3.68	0.001452	± 2.5	PASS
	HCH	VN	-30	-1.44	-0.000561	± 2.5	PASS
		VN	-20	-1.26	-0.000491	± 2.5	PASS
		VN	-10	1.75	0.000682	± 2.5	PASS
		VN	0	3.06	0.001193	± 2.5	PASS
		VN	10	1.52	0.000593	± 2.5	PASS
		VN	20	4.96	0.001934	± 2.5	PASS
		VN	30	4.13	0.001610	± 2.5	PASS
		VN	40	-1.31	-0.000511	± 2.5	PASS
		VN	50	-0.34	-0.000133	± 2.5	PASS
16QAM	LCH	VN	-30	-0.58	-0.000232	± 2.5	PASS
		VN	-20	2.35	0.000938	± 2.5	PASS
		VN	-10	0.6	0.000240	± 2.5	PASS
		VN	0	-0.42	-0.000168	± 2.5	PASS
		VN	10	-1.21	-0.000483	± 2.5	PASS
		VN	20	1.23	0.000491	± 2.5	PASS
		VN	30	-1.91	-0.000762	± 2.5	PASS
		VN	40	3.91	0.001561	± 2.5	PASS
		VN	50	3.45	0.001377	± 2.5	PASS
	MCH	VN	-30	2.55	0.001006	± 2.5	PASS
		VN	-20	-0.32	-0.000126	± 2.5	PASS
		VN	-10	0.95	0.000375	± 2.5	PASS
		VN	0	-1.37	-0.000540	± 2.5	PASS
		VN	10	1.13	0.000446	± 2.5	PASS
		VN	20	2.96	0.001168	± 2.5	PASS
		VN	30	1.66	0.000655	± 2.5	PASS
		VN	40	-1.79	-0.000706	± 2.5	PASS
		VN	50	2.88	0.001136	± 2.5	PASS
	HCH	VN	-30	2.98	0.001162	± 2.5	PASS
		VN	-20	0.12	0.000047	± 2.5	PASS
		VN	-10	-0.7	-0.000273	± 2.5	PASS
		VN	0	4.36	0.001700	± 2.5	PASS
		VN	10	2.99	0.001166	± 2.5	PASS
		VN	20	1.65	0.000643	± 2.5	PASS
		VN	30	0.21	0.000082	± 2.5	PASS
		VN	40	-1.64	-0.000639	± 2.5	PASS
		VN	50	0.63	0.000246	± 2.5	PASS

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-1.42	-0.000566	± 2.5	PASS
		VN	TN	3.22	0.001284	± 2.5	PASS
		VH	TN	4.77	0.001902	± 2.5	PASS
	MCH	VL	TN	0.1	0.000039	± 2.5	PASS
		VN	TN	4.34	0.001712	± 2.5	PASS
		VH	TN	2.59	0.001022	± 2.5	PASS
	HCH	VL	TN	4.39	0.001713	± 2.5	PASS
		VN	TN	3.34	0.001303	± 2.5	PASS
		VH	TN	-1.19	-0.000464	± 2.5	PASS
16QAM	LCH	VL	TN	2.97	0.001184	± 2.5	PASS
		VN	TN	1.58	0.000630	± 2.5	PASS
		VH	TN	4.2	0.001675	± 2.5	PASS
	MCH	VL	TN	-0.99	-0.000391	± 2.5	PASS
		VN	TN	1.83	0.000722	± 2.5	PASS
		VH	TN	-0.43	-0.000170	± 2.5	PASS
	HCH	VL	TN	0	0.000000	± 2.5	PASS
		VN	TN	1.93	0.000753	± 2.5	PASS
		VH	TN	1.45	0.000566	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.97	0.000786	± 2.5	PASS
		VN	-20	-1.6	-0.000638	± 2.5	PASS
		VN	-10	3.81	0.001519	± 2.5	PASS
		VN	0	1.55	0.000618	± 2.5	PASS
		VN	10	1.56	0.000622	± 2.5	PASS
		VN	20	-0.99	-0.000395	± 2.5	PASS
		VN	30	2.38	0.000949	± 2.5	PASS
		VN	40	-0.35	-0.000140	± 2.5	PASS
		VN	50	3.53	0.001408	± 2.5	PASS
	MCH	VN	-30	1.13	0.000446	± 2.5	PASS
		VN	-20	0.42	0.000166	± 2.5	PASS
		VN	-10	1.37	0.000540	± 2.5	PASS
		VN	0	3.85	0.001519	± 2.5	PASS
		VN	10	-0.15	-0.000059	± 2.5	PASS
		VN	20	-1.08	-0.000426	± 2.5	PASS

		VN	30	2.33	0.000919	± 2.5	PASS
		VN	40	-1.1	-0.000434	± 2.5	PASS
		VN	50	0.45	0.000178	± 2.5	PASS
	HCH	VN	-30	1.29	0.000503	± 2.5	PASS
		VN	-20	3.48	0.001358	± 2.5	PASS
		VN	-10	4.84	0.001889	± 2.5	PASS
		VN	0	0.19	0.000074	± 2.5	PASS
		VN	10	1.63	0.000636	± 2.5	PASS
		VN	20	3.64	0.001420	± 2.5	PASS
		VN	30	-0.18	-0.000070	± 2.5	PASS
		VN	40	3.72	0.001452	± 2.5	PASS
		VN	50	3.29	0.001284	± 2.5	PASS
16QAM	LCH	VN	-30	2.58	0.001029	± 2.5	PASS
		VN	-20	0.92	0.000367	± 2.5	PASS
		VN	-10	0.4	0.000160	± 2.5	PASS
		VN	0	-1.86	-0.000742	± 2.5	PASS
		VN	10	-1.82	-0.000726	± 2.5	PASS
		VN	20	4.07	0.001623	± 2.5	PASS
		VN	30	1.39	0.000554	± 2.5	PASS
		VN	40	3.59	0.001432	± 2.5	PASS
		VN	50	-1.76	-0.000702	± 2.5	PASS
	MCH	VN	-30	-0.71	-0.000280	± 2.5	PASS
		VN	-20	3.72	0.001467	± 2.5	PASS
		VN	-10	4.96	0.001957	± 2.5	PASS
		VN	0	2.42	0.000955	± 2.5	PASS
		VN	10	0.69	0.000272	± 2.5	PASS
		VN	20	2.2	0.000868	± 2.5	PASS
		VN	30	1.15	0.000454	± 2.5	PASS
		VN	40	0.98	0.000387	± 2.5	PASS
		VN	50	3.06	0.001207	± 2.5	PASS
	HCH	VN	-30	3.83	0.001495	± 2.5	PASS
		VN	-20	0.4	0.000156	± 2.5	PASS
		VN	-10	-0.61	-0.000238	± 2.5	PASS
		VN	0	2.03	0.000792	± 2.5	PASS
		VN	10	-0.76	-0.000297	± 2.5	PASS
		VN	20	-0.56	-0.000219	± 2.5	PASS
		VN	30	2.27	0.000886	± 2.5	PASS
		VN	40	1.54	0.000601	± 2.5	PASS
		VN	50	0.72	0.000281	± 2.5	PASS

Channel Bandwidth: 20 MHz

Channel Bandwidth: 20 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	4.95	0.001972	± 2.5	PASS
		VN	TN	-1.27	-0.000506	± 2.5	PASS
		VH	TN	3.44	0.001371	± 2.5	PASS
	MCH	VL	TN	-0.92	-0.000363	± 2.5	PASS
		VN	TN	-0.62	-0.000245	± 2.5	PASS
		VH	TN	0.6	0.000237	± 2.5	PASS
	HCH	VL	TN	-1.07	-0.000418	± 2.5	PASS
		VN	TN	1.98	0.000773	± 2.5	PASS
		VH	TN	-0.55	-0.000215	± 2.5	PASS
16QAM	LCH	VL	TN	-0.79	-0.000315	± 2.5	PASS
		VN	TN	0	0.000000	± 2.5	PASS
		VH	TN	1.91	0.000761	± 2.5	PASS
	MCH	VL	TN	4.1	0.001617	± 2.5	PASS
		VN	TN	1.4	0.000552	± 2.5	PASS
		VH	TN	3.78	0.001491	± 2.5	PASS
	HCH	VL	TN	-0.24	-0.000094	± 2.5	PASS
		VN	TN	-0.72	-0.000281	± 2.5	PASS
		VH	TN	3.64	0.001422	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.2	-0.000478	± 2.5	PASS
		VN	-20	2.71	0.001080	± 2.5	PASS
		VN	-10	1.38	0.000550	± 2.5	PASS
		VN	0	-1.48	-0.000590	± 2.5	PASS
		VN	10	4.85	0.001932	± 2.5	PASS
		VN	20	4.15	0.001653	± 2.5	PASS
		VN	30	-1.94	-0.000773	± 2.5	PASS
		VN	40	2.85	0.001135	± 2.5	PASS
		VN	50	2.02	0.000805	± 2.5	PASS
	MCH	VN	-30	1.33	0.000525	± 2.5	PASS
		VN	-20	-0.57	-0.000225	± 2.5	PASS
		VN	-10	-1.8	-0.000710	± 2.5	PASS
		VN	0	0.87	0.000343	± 2.5	PASS
		VN	10	1.72	0.000679	± 2.5	PASS
		VN	20	4.38	0.001728	± 2.5	PASS

		VN	30	1.5	0.000592	± 2.5	PASS
		VN	40	-1.07	-0.000422	± 2.5	PASS
		VN	50	0.64	0.000252	± 2.5	PASS
	HCH	VN	-30	0.37	0.000145	± 2.5	PASS
		VN	-20	-1.93	-0.000754	± 2.5	PASS
		VN	-10	0.83	0.000324	± 2.5	PASS
		VN	0	3.84	0.001500	± 2.5	PASS
		VN	10	1.66	0.000648	± 2.5	PASS
		VN	20	2.35	0.000918	± 2.5	PASS
		VN	30	2.11	0.000824	± 2.5	PASS
		VN	40	4.37	0.001707	± 2.5	PASS
		VN	50	0.88	0.000344	± 2.5	PASS
16QAM	LCH	VN	-30	-1.11	-0.000442	± 2.5	PASS
		VN	-20	0.79	0.000315	± 2.5	PASS
		VN	-10	4.29	0.001709	± 2.5	PASS
		VN	0	4.8	0.001912	± 2.5	PASS
		VN	10	-0.19	-0.000076	± 2.5	PASS
		VN	20	0.44	0.000175	± 2.5	PASS
		VN	30	2.13	0.000849	± 2.5	PASS
		VN	40	3.55	0.001414	± 2.5	PASS
		VN	50	3.81	0.001518	± 2.5	PASS
	MCH	VN	-30	-1.4	-0.000552	± 2.5	PASS
		VN	-20	4.58	0.001807	± 2.5	PASS
		VN	-10	4.86	0.001917	± 2.5	PASS
		VN	0	4.46	0.001759	± 2.5	PASS
		VN	10	-0.42	-0.000166	± 2.5	PASS
		VN	20	1.01	0.000398	± 2.5	PASS
		VN	30	1.8	0.000710	± 2.5	PASS
		VN	40	-0.48	-0.000189	± 2.5	PASS
		VN	50	2.4	0.000947	± 2.5	PASS
	HCH	VN	-30	-0.62	-0.000242	± 2.5	PASS
		VN	-20	0.68	0.000266	± 2.5	PASS
		VN	-10	4.29	0.001676	± 2.5	PASS
		VN	0	-0.73	-0.000285	± 2.5	PASS
		VN	10	0.5	0.000195	± 2.5	PASS
		VN	20	1.26	0.000492	± 2.5	PASS
		VN	30	2.89	0.001129	± 2.5	PASS
		VN	40	4.65	0.001816	± 2.5	PASS
		VN	50	-0.16	-0.000063	± 2.5	PASS