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Band7_10MHz_16QAM_20800_1RB#0



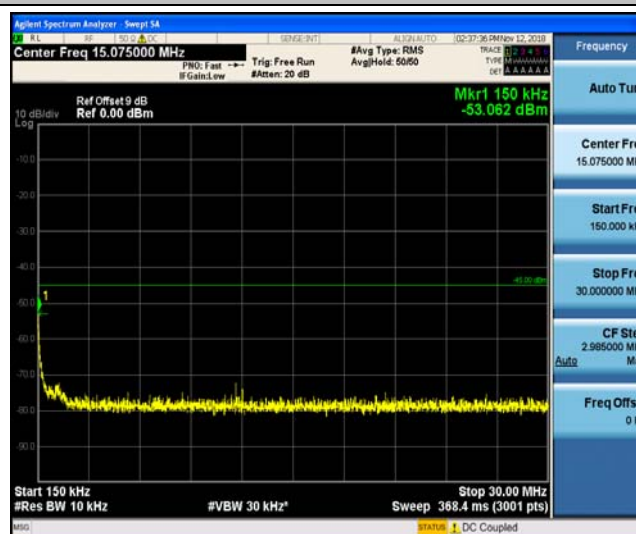
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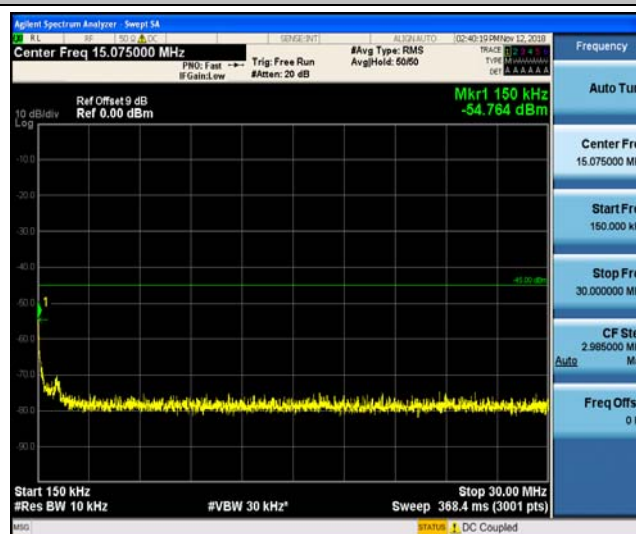
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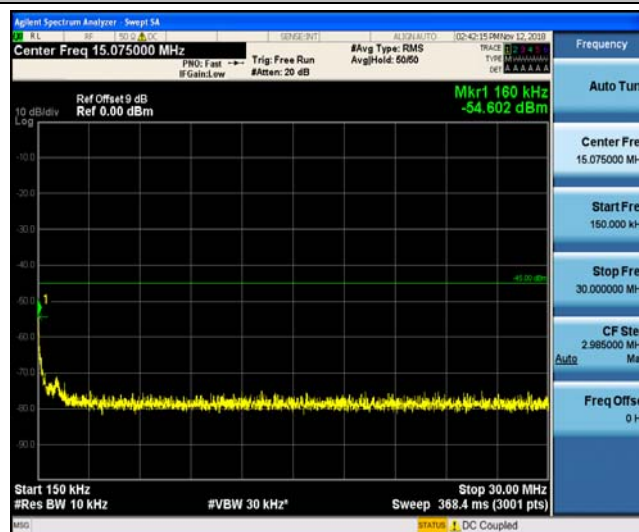
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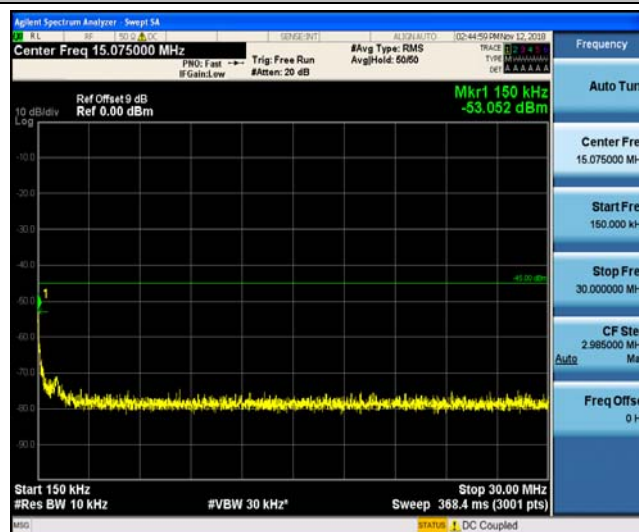
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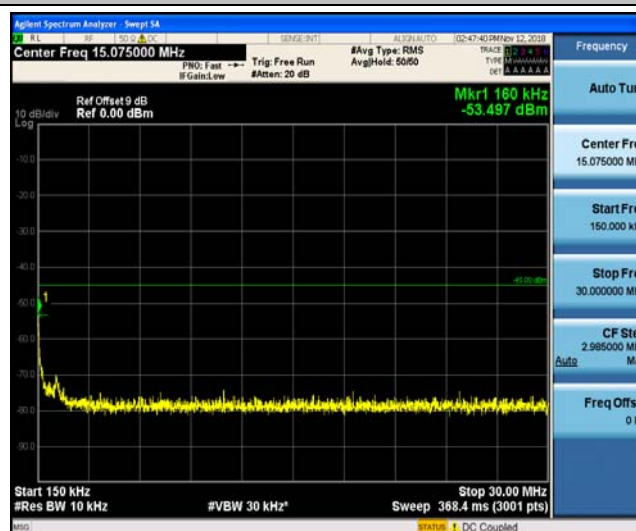
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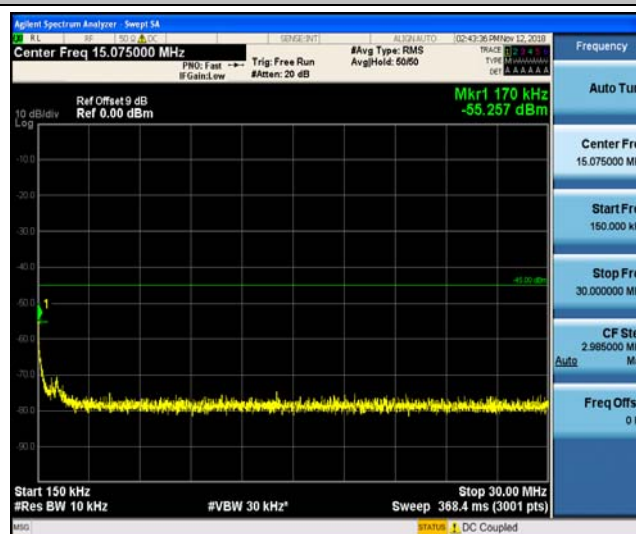
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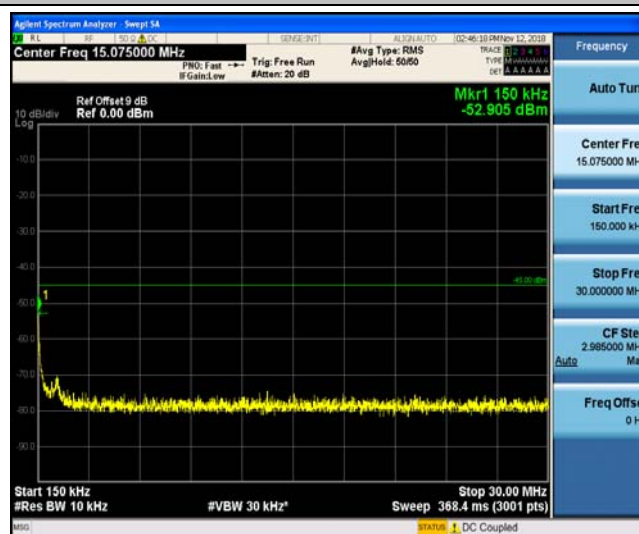
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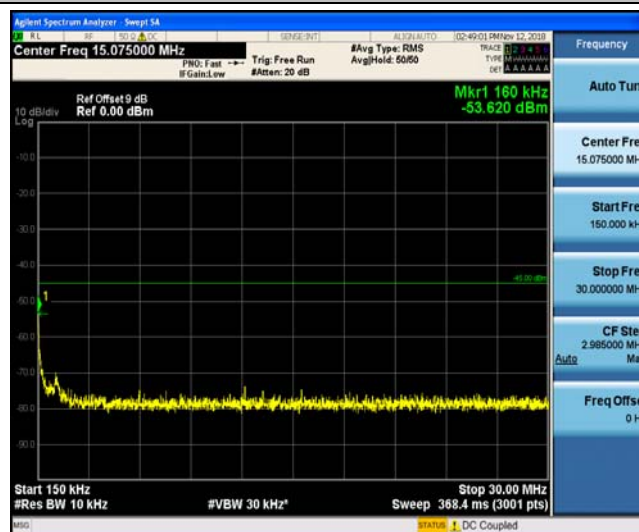
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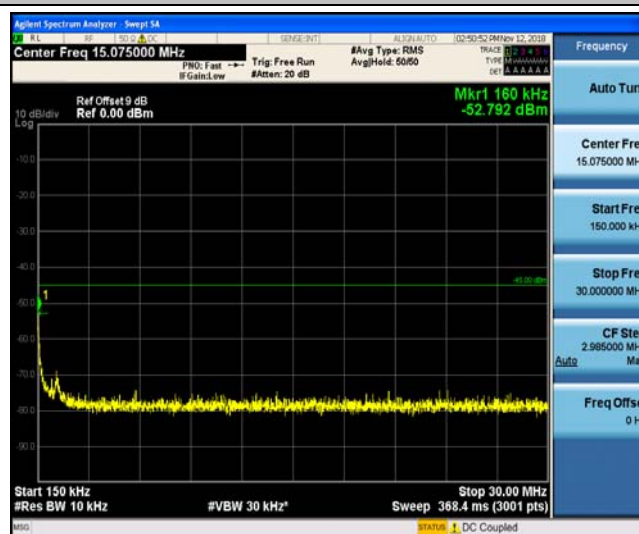
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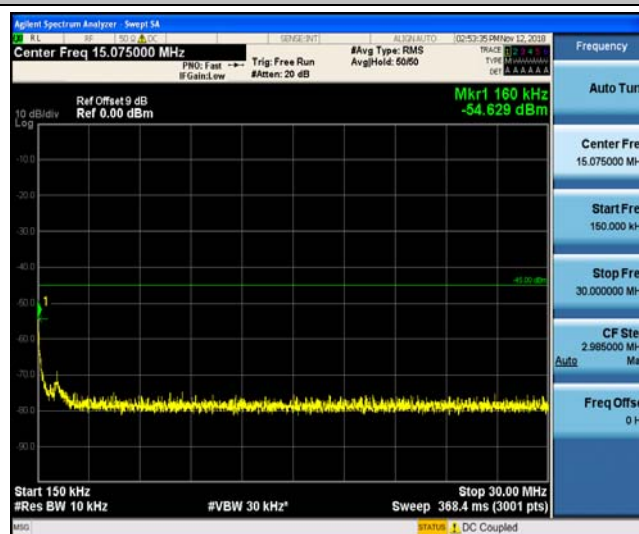
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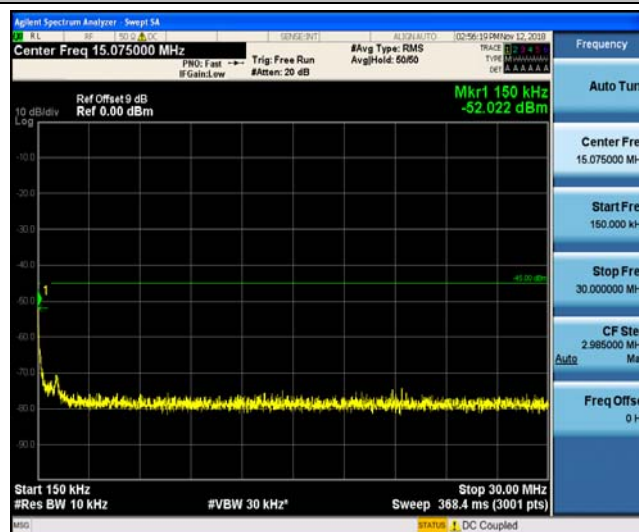
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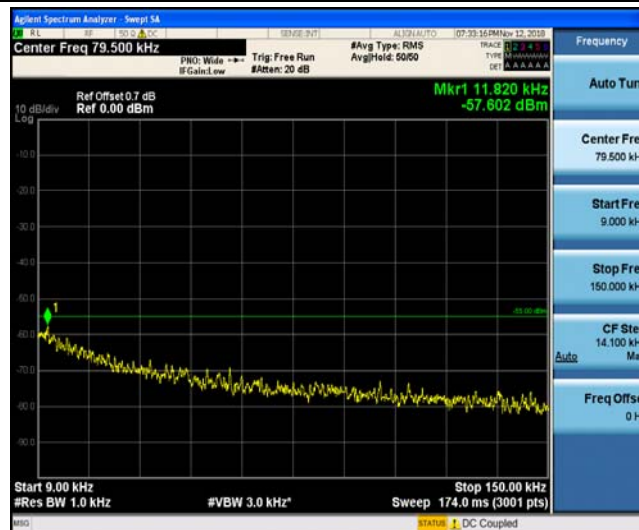
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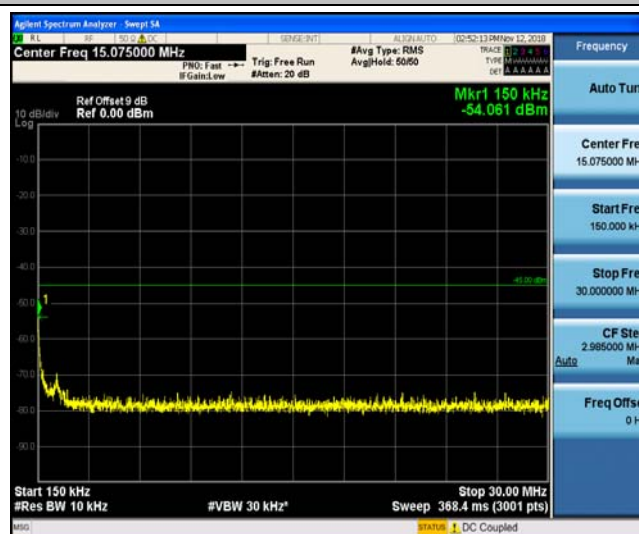
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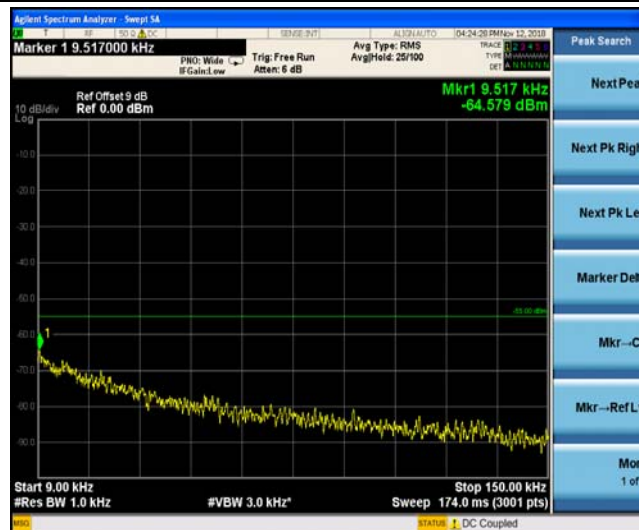
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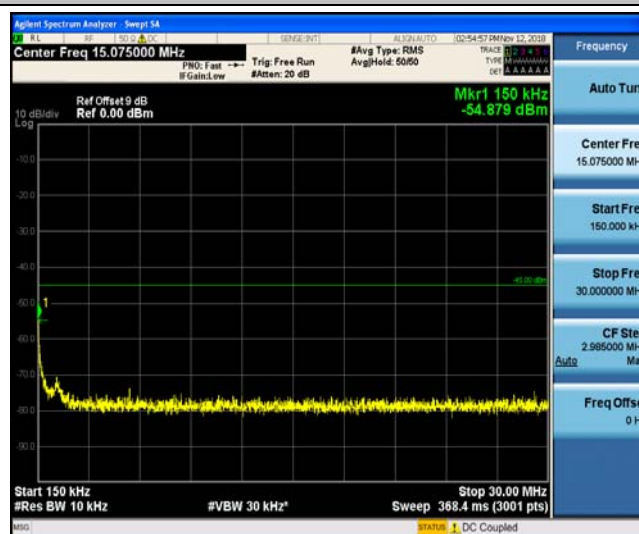
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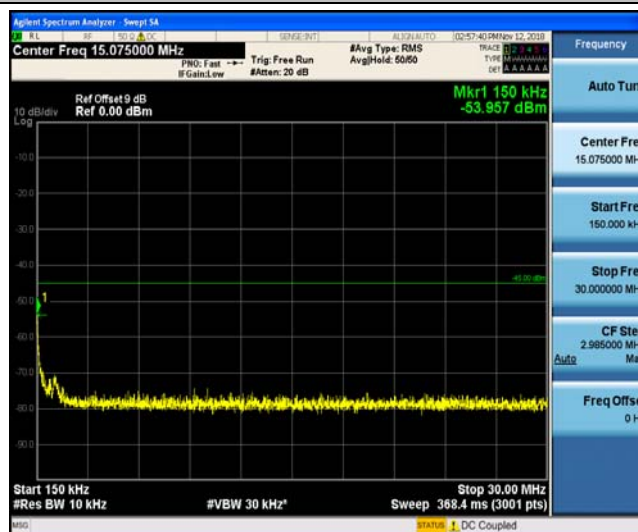
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Band7_20MHz_16QAM_21350_1RB#0



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	1.01	0.000404	± 2.5	PASS
		VN	TN	2.82	0.001127	± 2.5	PASS
		VH	TN	3.11	0.001243	± 2.5	PASS
	MCH	VL	TN	0.43	0.000170	± 2.5	PASS
		VN	TN	2.93	0.001156	± 2.5	PASS
		VH	TN	-0.84	-0.000331	± 2.5	PASS
	HCH	VL	TN	0.58	0.000226	± 2.5	PASS
		VN	TN	4.25	0.001655	± 2.5	PASS
		VH	TN	0.02	0.000008	± 2.5	PASS
16QAM	LCH	VL	TN	0.51	0.000204	± 2.5	PASS
		VN	TN	2.19	0.000875	± 2.5	PASS
		VH	TN	0.64	0.000256	± 2.5	PASS
	MCH	VL	TN	3.77	0.001487	± 2.5	PASS
		VN	TN	-0.12	-0.000047	± 2.5	PASS
		VH	TN	3.27	0.001290	± 2.5	PASS
	HCH	VL	TN	0.62	0.000241	± 2.5	PASS
		VN	TN	-0.05	-0.000019	± 2.5	PASS
		VH	TN	0.38	0.000148	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.12	0.000448	± 2.5	PASS
		VN	-20	4.3	0.001718	± 2.5	PASS
		VN	-10	3.05	0.001219	± 2.5	PASS
		VN	0	-1.07	-0.000428	± 2.5	PASS
		VN	10	-1.39	-0.000555	± 2.5	PASS
		VN	20	-1.68	-0.000671	± 2.5	PASS
		VN	30	-0.32	-0.000128	± 2.5	PASS
		VN	40	3.15	0.001259	± 2.5	PASS
		VN	50	2.75	0.001099	± 2.5	PASS
	MCH	VN	-30	0.9	0.000355	± 2.5	PASS
		VN	-20	2.8	0.001105	± 2.5	PASS
		VN	-10	2.88	0.001136	± 2.5	PASS

		VN	0	4.08	0.001609	± 2.5	PASS
		VN	10	1.18	0.000465	± 2.5	PASS
		VN	20	4.18	0.001649	± 2.5	PASS
		VN	30	4.07	0.001606	± 2.5	PASS
		VN	40	2.11	0.000832	± 2.5	PASS
		VN	50	-0.19	-0.000075	± 2.5	PASS
	HCH	VN	-30	4.35	0.001694	± 2.5	PASS
		VN	-20	1.41	0.000549	± 2.5	PASS
		VN	-10	4.14	0.001612	± 2.5	PASS
		VN	0	-0.41	-0.000160	± 2.5	PASS
		VN	10	0.88	0.000343	± 2.5	PASS
		VN	20	1.28	0.000499	± 2.5	PASS
		VN	30	-1.07	-0.000417	± 2.5	PASS
		VN	40	4.47	0.001741	± 2.5	PASS
		VN	50	-0.13	-0.000051	± 2.5	PASS
16QAM	LCH	VN	-30	1.54	0.000615	± 2.5	PASS
		VN	-20	1.44	0.000575	± 2.5	PASS
		VN	-10	3.73	0.001491	± 2.5	PASS
		VN	0	3.72	0.001487	± 2.5	PASS
		VN	10	1.06	0.000424	± 2.5	PASS
		VN	20	1.2	0.000480	± 2.5	PASS
		VN	30	2.15	0.000859	± 2.5	PASS
		VN	40	-1.39	-0.000555	± 2.5	PASS
		VN	50	3.89	0.001554	± 2.5	PASS
	MCH	VN	-30	-1.72	-0.000679	± 2.5	PASS
		VN	-20	3.12	0.001231	± 2.5	PASS
		VN	-10	-1.16	-0.000458	± 2.5	PASS
		VN	0	2.7	0.001065	± 2.5	PASS
		VN	10	-0.15	-0.000059	± 2.5	PASS
		VN	20	4.62	0.001822	± 2.5	PASS
		VN	30	-1.85	-0.000730	± 2.5	PASS
		VN	40	-1.27	-0.000501	± 2.5	PASS
		VN	50	2.48	0.000978	± 2.5	PASS
	HCH	VN	-30	2.5	0.000974	± 2.5	PASS
		VN	-20	1.4	0.000545	± 2.5	PASS
		VN	-10	0.41	0.000160	± 2.5	PASS
		VN	0	4.35	0.001694	± 2.5	PASS
		VN	10	0.3	0.000117	± 2.5	PASS
		VN	20	0.35	0.000136	± 2.5	PASS
		VN	30	-0.34	-0.000132	± 2.5	PASS
		VN	40	1.97	0.000767	± 2.5	PASS

		VN	50	4.65	0.001811	± 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	-1.82	-0.000727	± 2.5	PASS
		VN	TN	3.56	0.001421	± 2.5	PASS
		VH	TN	0.77	0.000307	± 2.5	PASS
	MCH	VL	TN	0.04	0.000016	± 2.5	PASS
		VN	TN	1.73	0.000682	± 2.5	PASS
		VH	TN	0.67	0.000264	± 2.5	PASS
	HCH	VL	TN	-0.48	-0.000187	± 2.5	PASS
		VN	TN	4.99	0.001945	± 2.5	PASS
		VH	TN	4.98	0.001942	± 2.5	PASS
16QAM	LCH	VL	TN	-1	-0.000399	± 2.5	PASS
		VN	TN	-0.63	-0.000251	± 2.5	PASS
		VH	TN	4.38	0.001749	± 2.5	PASS
	MCH	VL	TN	2.31	0.000911	± 2.5	PASS
		VN	TN	-0.41	-0.000162	± 2.5	PASS
		VH	TN	1.06	0.000418	± 2.5	PASS
	HCH	VL	TN	0.73	0.000285	± 2.5	PASS
		VN	TN	3.5	0.001365	± 2.5	PASS
		VH	TN	1.71	0.000667	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	2.15	0.000858	± 2.5	PASS
		VN	-20	4.86	0.001940	± 2.5	PASS
		VN	-10	-1.44	-0.000575	± 2.5	PASS
		VN	0	-0.66	-0.000263	± 2.5	PASS
		VN	10	3.93	0.001569	± 2.5	PASS
		VN	20	-0.09	-0.000036	± 2.5	PASS
		VN	30	-1.67	-0.000667	± 2.5	PASS
		VN	40	3.36	0.001341	± 2.5	PASS
		VN	50	3.87	0.001545	± 2.5	PASS
	MCH	VN	-30	3.26	0.001286	± 2.5	PASS
		VN	-20	4.24	0.001673	± 2.5	PASS
		VN	-10	-1.05	-0.000414	± 2.5	PASS
		VN	0	-0.82	-0.000323	± 2.5	PASS
		VN	10	0.55	0.000217	± 2.5	PASS

		VN	20	0.94	0.000371	± 2.5	PASS
		VN	30	0.22	0.000087	± 2.5	PASS
		VN	40	-0.54	-0.000213	± 2.5	PASS
		VN	50	1.13	0.000446	± 2.5	PASS
	HCH	VN	-30	2.28	0.000889	± 2.5	PASS
		VN	-20	2.51	0.000979	± 2.5	PASS
		VN	-10	-0.39	-0.000152	± 2.5	PASS
		VN	0	0.16	0.000062	± 2.5	PASS
		VN	10	-0.57	-0.000222	± 2.5	PASS
		VN	20	-0.99	-0.000386	± 2.5	PASS
		VN	30	4.76	0.001856	± 2.5	PASS
		VN	40	1.33	0.000519	± 2.5	PASS
		VN	50	-0.3	-0.000117	± 2.5	PASS
QPSK	LCH	VN	-30	-0.69	-0.000275	± 2.5	PASS
		VN	-20	4.04	0.001613	± 2.5	PASS
		VN	-10	-0.21	-0.000084	± 2.5	PASS
		VN	0	-0.13	-0.000052	± 2.5	PASS
		VN	10	4.82	0.001924	± 2.5	PASS
		VN	20	3.74	0.001493	± 2.5	PASS
		VN	30	4.72	0.001884	± 2.5	PASS
		VN	40	3.33	0.001329	± 2.5	PASS
		VN	50	3.28	0.001309	± 2.5	PASS
	MCH	VN	-30	2.9	0.001144	± 2.5	PASS
		VN	-20	2.53	0.000998	± 2.5	PASS
		VN	-10	3.72	0.001467	± 2.5	PASS
		VN	0	4.47	0.001763	± 2.5	PASS
		VN	10	1.92	0.000757	± 2.5	PASS
		VN	20	0.68	0.000268	± 2.5	PASS
		VN	30	1.94	0.000765	± 2.5	PASS
		VN	40	4.61	0.001819	± 2.5	PASS
		VN	50	2.58	0.001018	± 2.5	PASS
	HCH	VN	-30	0.11	0.000043	± 2.5	PASS
		VN	-20	2.53	0.000986	± 2.5	PASS
		VN	-10	-1.84	-0.000717	± 2.5	PASS
		VN	0	0.34	0.000133	± 2.5	PASS
		VN	10	1.46	0.000569	± 2.5	PASS
		VN	20	1.11	0.000433	± 2.5	PASS
		VN	30	3.7	0.001442	± 2.5	PASS
		VN	40	3.63	0.001415	± 2.5	PASS
		VN	50	4.49	0.001750	± 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	3.42	0.001364	± 2.5	PASS
		VN	TN	-1.85	-0.000738	± 2.5	PASS
		VH	TN	-0.81	-0.000323	± 2.5	PASS
	MCH	VL	TN	-1.57	-0.000619	± 2.5	PASS
		VN	TN	3.62	0.001428	± 2.5	PASS
		VH	TN	3.33	0.001314	± 2.5	PASS
	HCH	VL	TN	4.07	0.001588	± 2.5	PASS
		VN	TN	4.91	0.001916	± 2.5	PASS
		VH	TN	0.02	0.000008	± 2.5	PASS
16QAM	LCH	VL	TN	3.26	0.001300	± 2.5	PASS
		VN	TN	-0.99	-0.000395	± 2.5	PASS
		VH	TN	1.22	0.000487	± 2.5	PASS
	MCH	VL	TN	4.45	0.001755	± 2.5	PASS
		VN	TN	3.63	0.001432	± 2.5	PASS
		VH	TN	-1.83	-0.000722	± 2.5	PASS
	HCH	VL	TN	-1.28	-0.000500	± 2.5	PASS
		VN	TN	2.54	0.000991	± 2.5	PASS
		VH	TN	2.63	0.001026	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.26	-0.000104	± 2.5	PASS
		VN	-20	4.25	0.001695	± 2.5	PASS
		VN	-10	2.13	0.000849	± 2.5	PASS
		VN	0	2.78	0.001109	± 2.5	PASS
		VN	10	4.45	0.001775	± 2.5	PASS
		VN	20	3.92	0.001563	± 2.5	PASS
		VN	30	-1.44	-0.000574	± 2.5	PASS
		VN	40	0.53	0.000211	± 2.5	PASS
		VN	50	-0.88	-0.000351	± 2.5	PASS
	MCH	VN	-30	3.25	0.001282	± 2.5	PASS
		VN	-20	1.5	0.000592	± 2.5	PASS
		VN	-10	-0.35	-0.000138	± 2.5	PASS
		VN	0	0.28	0.000110	± 2.5	PASS
		VN	10	3.69	0.001456	± 2.5	PASS
		VN	20	2.88	0.001136	± 2.5	PASS
VN	30	4.58	0.001807	± 2.5	PASS		

		VN	40	1.12	0.000442	± 2.5	PASS
		VN	50	3.96	0.001562	± 2.5	PASS
	HCH	VN	-30	3.15	0.001229	± 2.5	PASS
		VN	-20	0.33	0.000129	± 2.5	PASS
		VN	-10	-1.61	-0.000628	± 2.5	PASS
		VN	0	2.83	0.001104	± 2.5	PASS
		VN	10	3.65	0.001424	± 2.5	PASS
		VN	20	3.57	0.001393	± 2.5	PASS
		VN	30	4.26	0.001662	± 2.5	PASS
		VN	40	2.17	0.000847	± 2.5	PASS
		VN	50	-0.9	-0.000351	± 2.5	PASS
16QAM	LCH	VN	-30	0.64	0.000255	± 2.5	PASS
		VN	-20	0.88	0.000351	± 2.5	PASS
		VN	-10	0.16	0.000064	± 2.5	PASS
		VN	0	3.18	0.001268	± 2.5	PASS
		VN	10	-1.75	-0.000698	± 2.5	PASS
		VN	20	2.14	0.000853	± 2.5	PASS
		VN	30	3.89	0.001551	± 2.5	PASS
		VN	40	4.1	0.001635	± 2.5	PASS
		VN	50	-1.99	-0.000794	± 2.5	PASS
	MCH	VN	-30	3.78	0.001491	± 2.5	PASS
		VN	-20	3.86	0.001523	± 2.5	PASS
		VN	-10	4.4	0.001736	± 2.5	PASS
		VN	0	3.7	0.001460	± 2.5	PASS
		VN	10	3.37	0.001329	± 2.5	PASS
		VN	20	1.18	0.000465	± 2.5	PASS
		VN	30	2.12	0.000836	± 2.5	PASS
		VN	40	0.24	0.000095	± 2.5	PASS
		VN	50	-0.25	-0.000099	± 2.5	PASS
	HCH	VN	-30	-0.3	-0.000117	± 2.5	PASS
		VN	-20	2.24	0.000874	± 2.5	PASS
		VN	-10	0.07	0.000027	± 2.5	PASS
		VN	0	-1.43	-0.000558	± 2.5	PASS
		VN	10	4.86	0.001897	± 2.5	PASS
		VN	20	0.19	0.000074	± 2.5	PASS
		VN	30	-1.5	-0.000585	± 2.5	PASS
		VN	40	-1.54	-0.000601	± 2.5	PASS
		VN	50	1.88	0.000734	± 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	0.69	0.000275	± 2.5	PASS
		VN	TN	1.66	0.000661	± 2.5	PASS
		VH	TN	0.14	0.000056	± 2.5	PASS
	MCH	VL	TN	3.55	0.001400	± 2.5	PASS
		VN	TN	1.46	0.000576	± 2.5	PASS
		VH	TN	3.3	0.001302	± 2.5	PASS
	HCH	VL	TN	-1.16	-0.000453	± 2.5	PASS
		VN	TN	-1.61	-0.000629	± 2.5	PASS
		VH	TN	4.31	0.001684	± 2.5	PASS
16QAM	LCH	VL	TN	-1.97	-0.000785	± 2.5	PASS
		VN	TN	4.2	0.001673	± 2.5	PASS
		VH	TN	2.46	0.000980	± 2.5	PASS
	MCH	VL	TN	4.17	0.001645	± 2.5	PASS
		VN	TN	0.04	0.000016	± 2.5	PASS
		VH	TN	4.09	0.001613	± 2.5	PASS
	HCH	VL	TN	2.68	0.001047	± 2.5	PASS
		VN	TN	-0.89	-0.000348	± 2.5	PASS
		VH	TN	0.75	0.000293	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.78	-0.000311	± 2.5	PASS
		VN	-20	4.46	0.001777	± 2.5	PASS
		VN	-10	2.87	0.001143	± 2.5	PASS
		VN	0	-1.07	-0.000426	± 2.5	PASS
		VN	10	4.8	0.001912	± 2.5	PASS
		VN	20	0.11	0.000044	± 2.5	PASS
		VN	30	4.83	0.001924	± 2.5	PASS
		VN	40	3.98	0.001586	± 2.5	PASS
		VN	50	1.58	0.000629	± 2.5	PASS
	MCH	VN	-30	0.51	0.000201	± 2.5	PASS
		VN	-20	2.46	0.000970	± 2.5	PASS
		VN	-10	3.92	0.001546	± 2.5	PASS
		VN	0	4.64	0.001830	± 2.5	PASS
		VN	10	-1.71	-0.000675	± 2.5	PASS
		VN	20	4.95	0.001953	± 2.5	PASS
		VN	30	3.91	0.001542	± 2.5	PASS
		VN	40	3.5	0.001381	± 2.5	PASS
		VN	50	3.68	0.001452	± 2.5	PASS

	HCH	VN	-30	2.69	0.001051	± 2.5	PASS
		VN	-20	-0.2	-0.000078	± 2.5	PASS
		VN	-10	4.69	0.001832	± 2.5	PASS
		VN	0	4.11	0.001605	± 2.5	PASS
		VN	10	2.25	0.000879	± 2.5	PASS
		VN	20	-1.01	-0.000395	± 2.5	PASS
		VN	30	4.23	0.001652	± 2.5	PASS
		VN	40	-0.14	-0.000055	± 2.5	PASS
		VN	50	0.03	0.000012	± 2.5	PASS
16QAM	LCH	VN	-30	4.69	0.001869	± 2.5	PASS
		VN	-20	3.06	0.001219	± 2.5	PASS
		VN	-10	-0.41	-0.000163	± 2.5	PASS
		VN	0	-1.91	-0.000761	± 2.5	PASS
		VN	10	3.32	0.001323	± 2.5	PASS
		VN	20	-1.89	-0.000753	± 2.5	PASS
		VN	30	1.76	0.000701	± 2.5	PASS
		VN	40	3.21	0.001279	± 2.5	PASS
		VN	50	2.53	0.001008	± 2.5	PASS
	MCH	VN	-30	-1.6	-0.000631	± 2.5	PASS
		VN	-20	2.02	0.000797	± 2.5	PASS
		VN	-10	1.73	0.000682	± 2.5	PASS
		VN	0	2.54	0.001002	± 2.5	PASS
		VN	10	4.87	0.001921	± 2.5	PASS
		VN	20	2.19	0.000864	± 2.5	PASS
		VN	30	1.88	0.000742	± 2.5	PASS
		VN	40	3.87	0.001527	± 2.5	PASS
		VN	50	2.07	0.000817	± 2.5	PASS
	HCH	VN	-30	-0.3	-0.000117	± 2.5	PASS
		VN	-20	2.67	0.001043	± 2.5	PASS
		VN	-10	3.59	0.001402	± 2.5	PASS
		VN	0	2.45	0.000957	± 2.5	PASS
		VN	10	0.56	0.000219	± 2.5	PASS
		VN	20	3.22	0.001258	± 2.5	PASS
		VN	30	4.96	0.001938	± 2.5	PASS
		VN	40	4.77	0.001863	± 2.5	PASS
		VN	50	1.45	0.000566	± 2.5	PASS