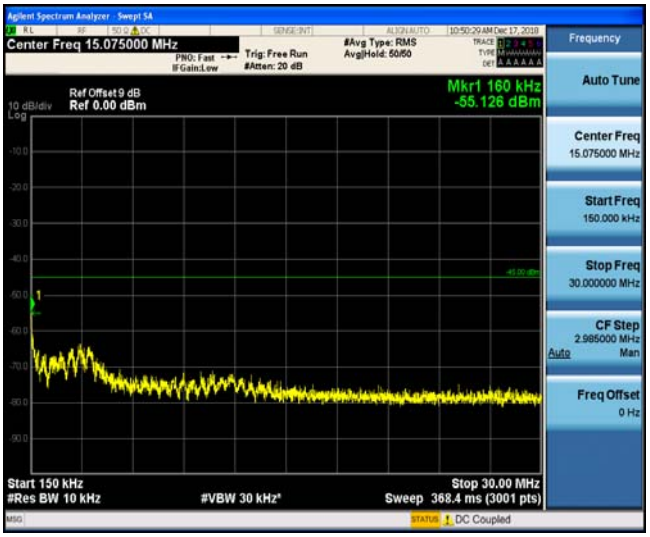

Band7_10MHz_QPSK_20800_1RB#0

Band7_10MHz_QPSK_20800_1RB#0

Band7_10MHz_QPSK_20800_1RB#0

Band7_10MHz_QPSK_20800_1RB#0

Band7_10MHz_QPSK_21100_1RB#0

Band7_10MHz_QPSK_21100_1RB#0

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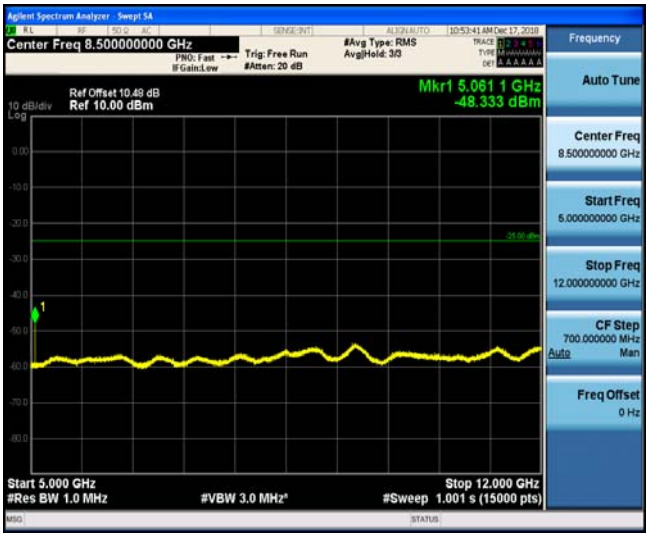

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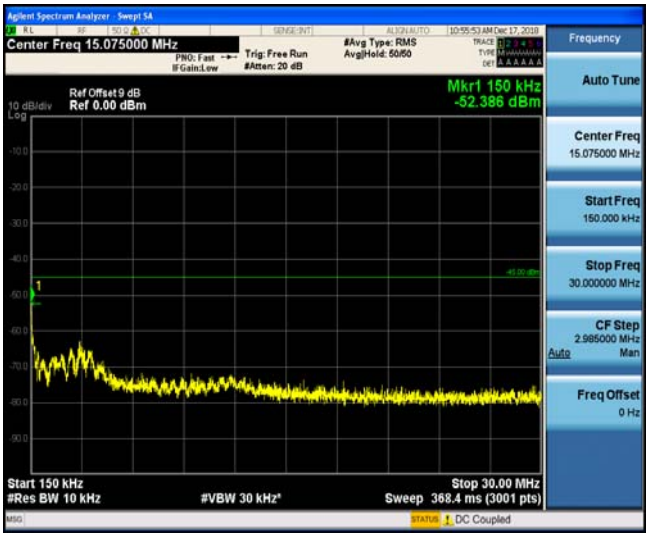

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Band7_10MHz_QPSK_21400_1RB#0

Band7_10MHz_QPSK_21400_1RB#0

Band7_10MHz_16QAM_20800_1RB#0

Band7_10MHz_16QAM_20800_1RB#0

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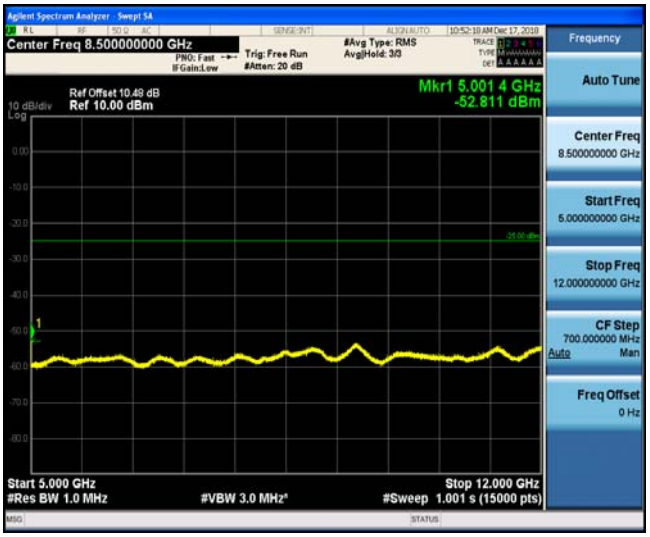

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Band7_10MHz_16QAM_21100_1RB#0

Band7_10MHz_16QAM_21100_1RB#0

Band7_10MHz_16QAM_21100_1RB#0

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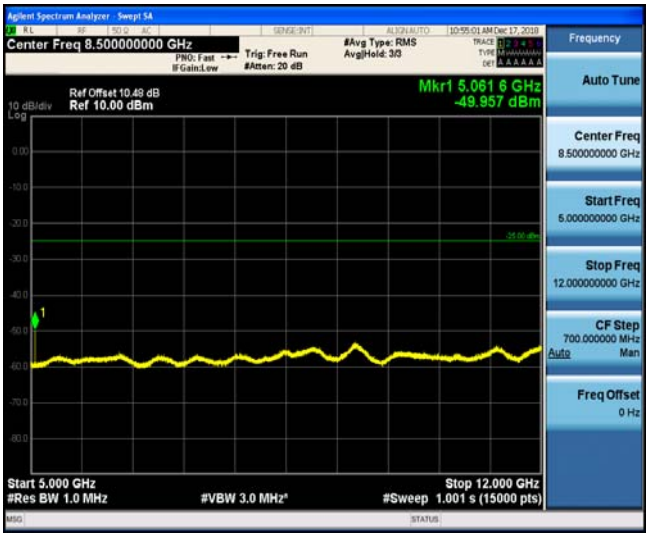
Band7_10MHz_16QAM_21100_1RB#0



Band7_10MHz_16QAM_21100_1RB#0

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Band7_10MHz_16QAM_21400_1RB#0

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Band7_10MHz_16QAM_21400_1RB#0

Band7_10MHz_16QAM_21400_1RB#0

Band7_10MHz_16QAM_21400_1RB#0

Band7_15MHz_QPSK_20825_1RB#0

Band7_15MHz_QPSK_20825_1RB#0

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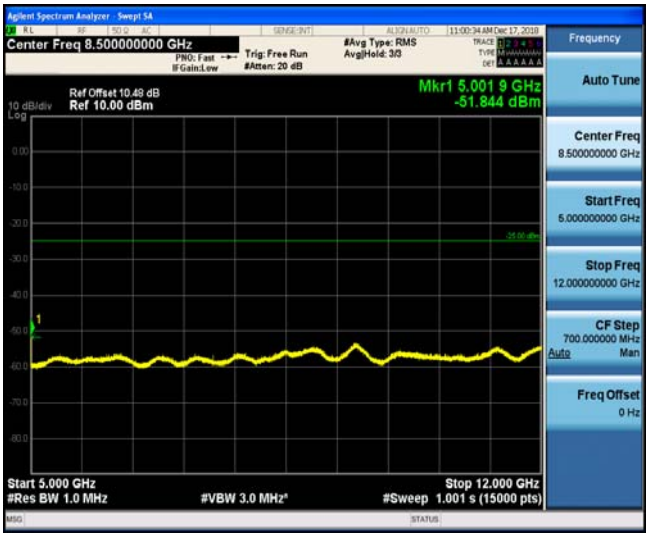

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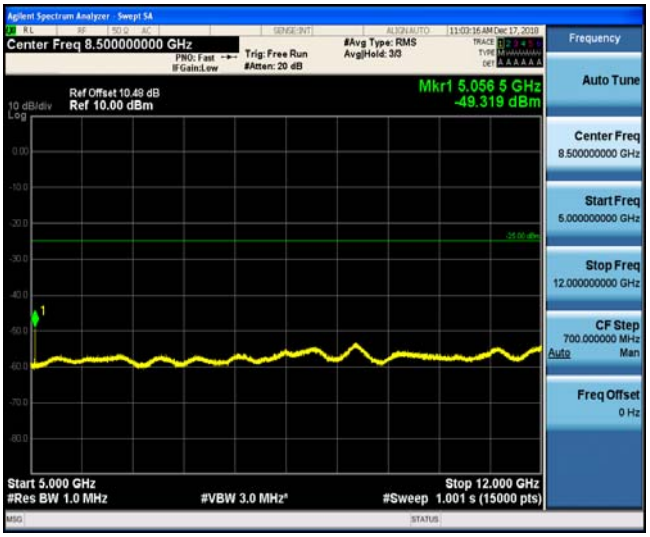
Band7_15MHz_QPSK_21100_1RB#0

Band7_15MHz_QPSK_21100_1RB#0

Band7_15MHz_QPSK_21100_1RB#0

Band7_15MHz_QPSK_21100_1RB#0

Band7_15MHz_QPSK_21100_1RB#0



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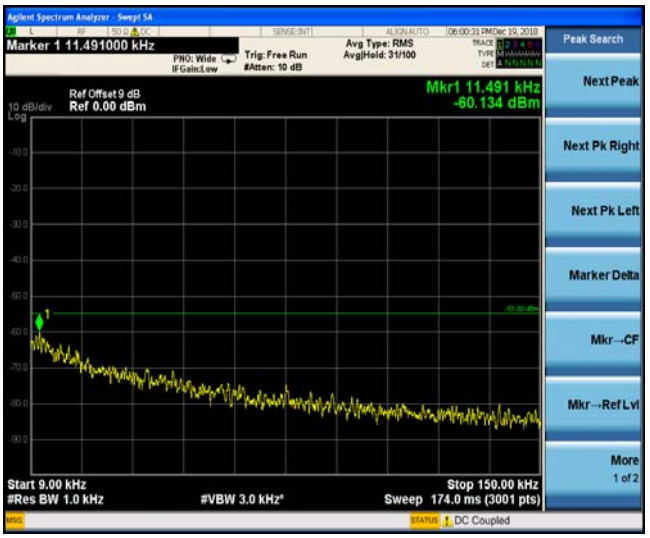

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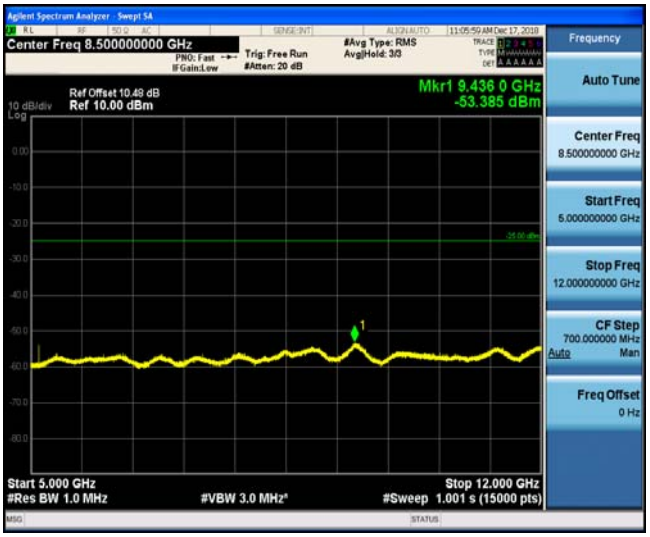
Band7_15MHz_QPSK_21375_1RB#0

Band7_15MHz_QPSK_21375_1RB#0

Band7_15MHz_QPSK_21375_1RB#0



Band7_15MHz_QPSK_21375_1RB#0

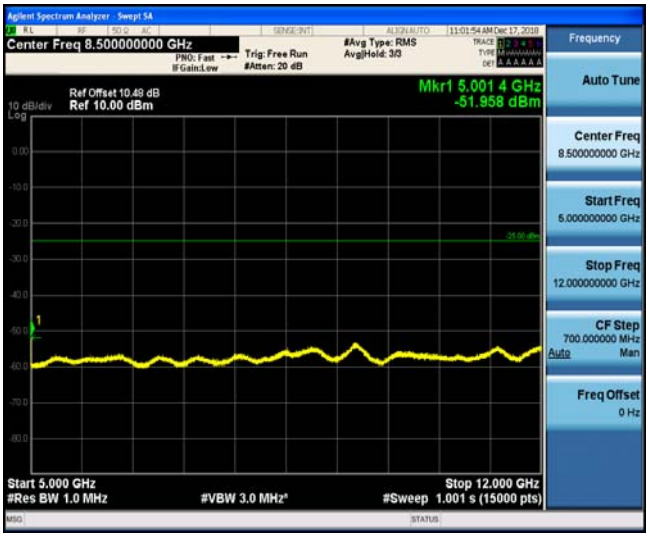
Band7_15MHz_16QAM_20825_1RB#0

Band7_15MHz_16QAM_20825_1RB#0

Band7_15MHz_16QAM_20825_1RB#0

Band7_15MHz_16QAM_20825_1RB#0

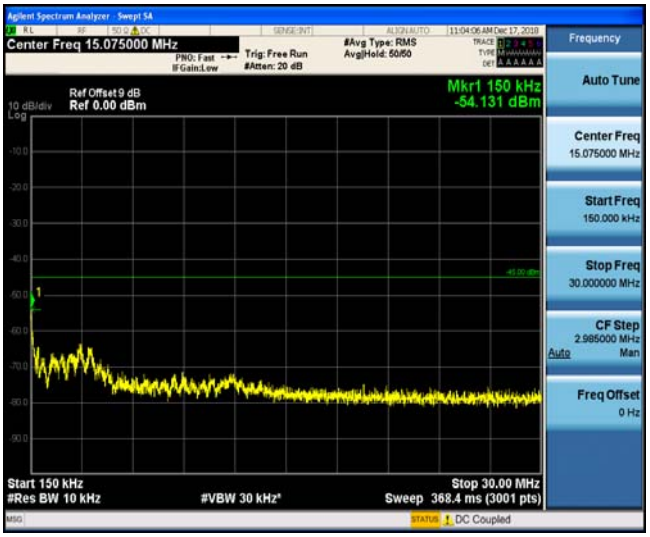
Band7_15MHz_16QAM_20825_1RB#0



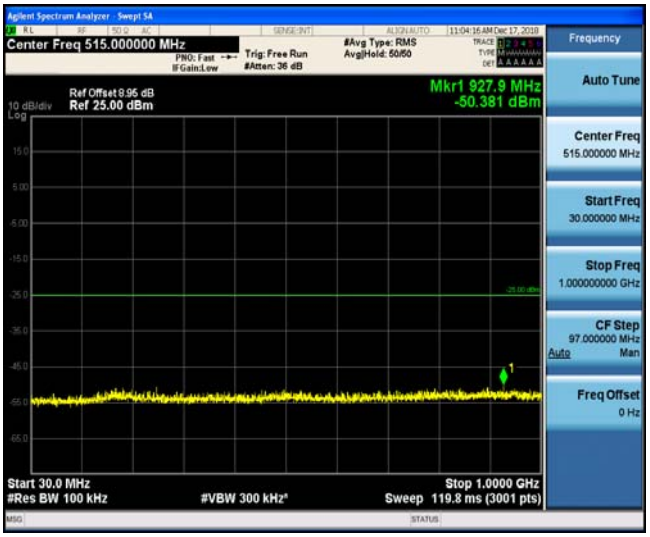
Band7_15MHz_16QAM_20825_1RB#0

Band7_15MHz_16QAM_21100_1RB#0

Band7_15MHz_16QAM_21100_1RB#0



Band7_15MHz_16QAM_21100_1RB#0



Band7_15MHz_16QAM_21100_1RB#0

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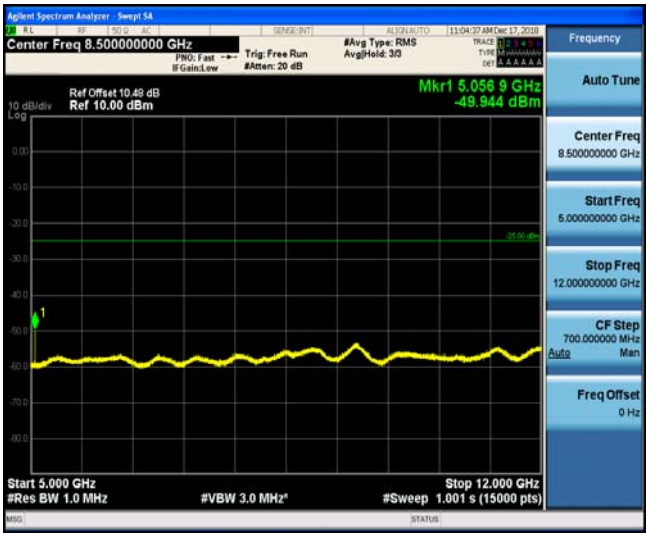

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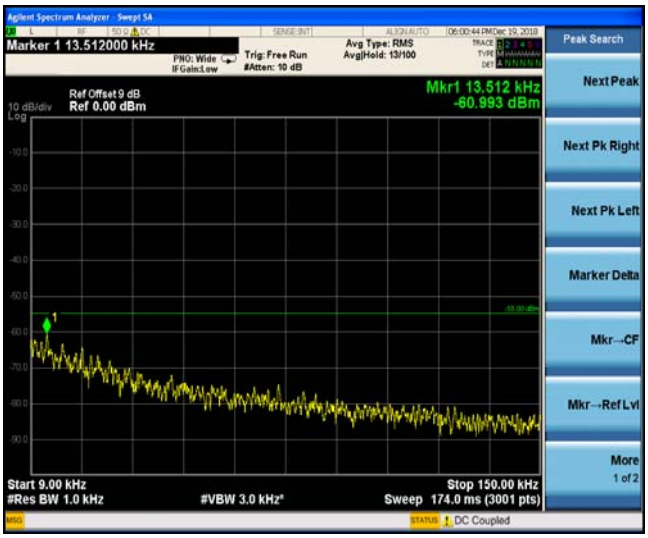
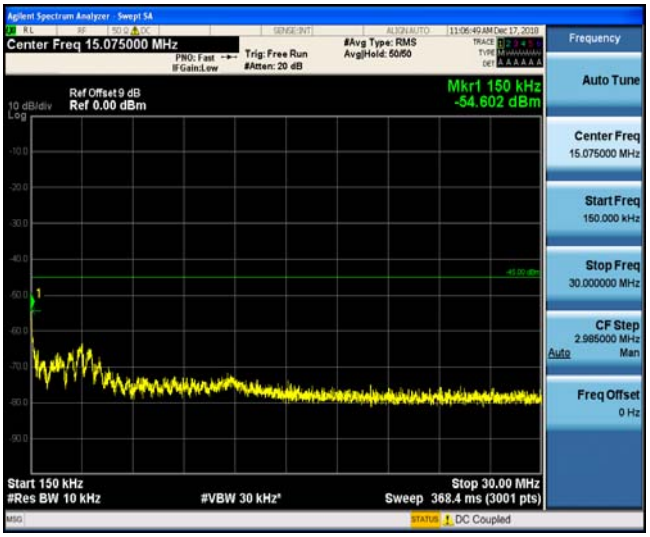


Band7_15MHz_16QAM_21375_1RB#0



Band7_15MHz_16QAM_21375_1RB#0

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Band7_20MHz_QPSK_20850_1RB#0

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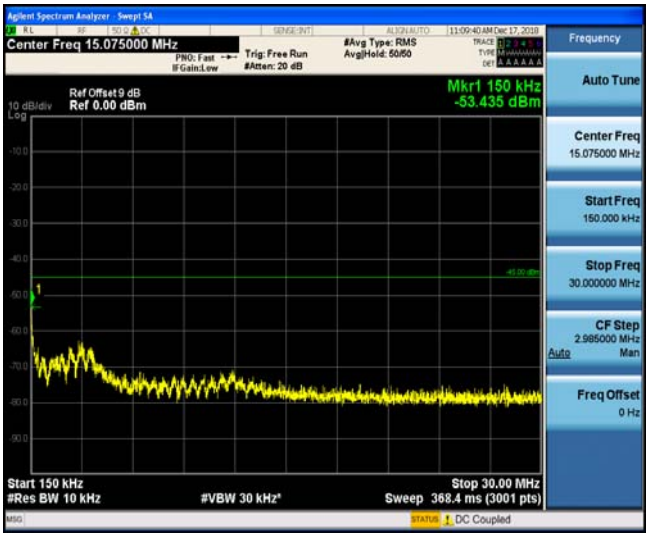

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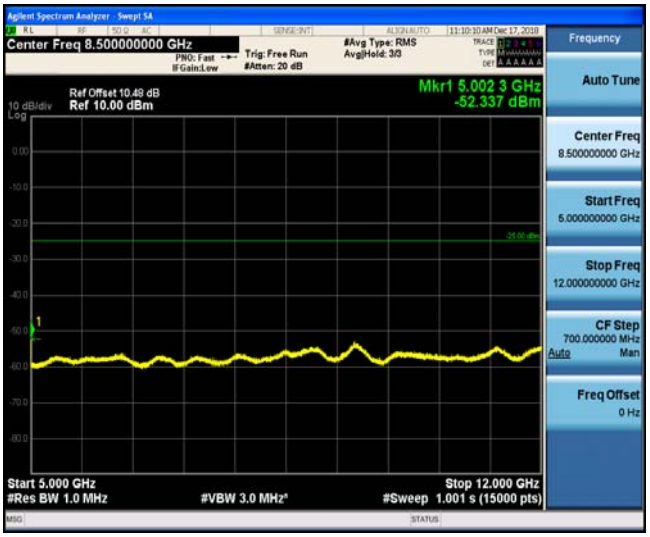

Band7_20MHz_QPSK_20850_1RB#0

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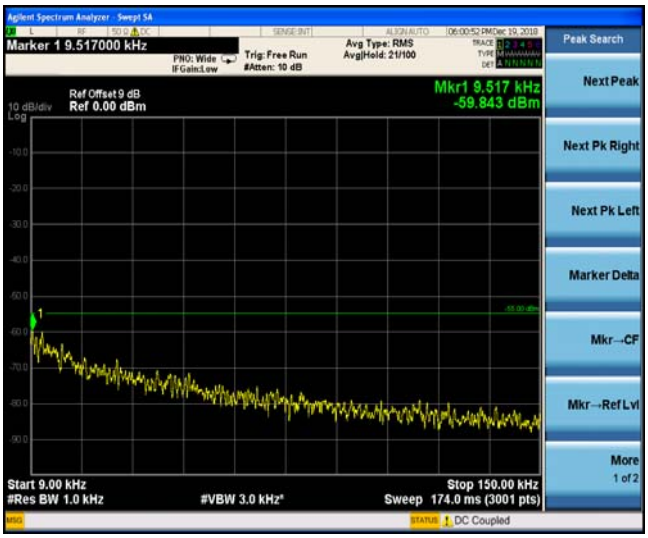

Band7_20MHz_QPSK_21100_1RB#0

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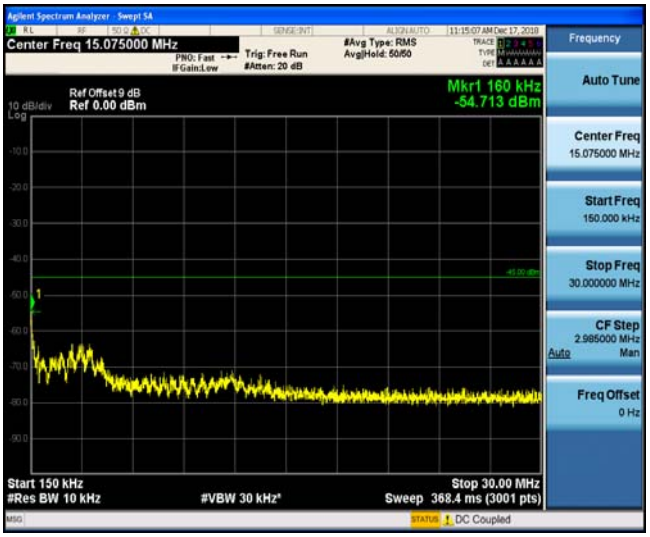
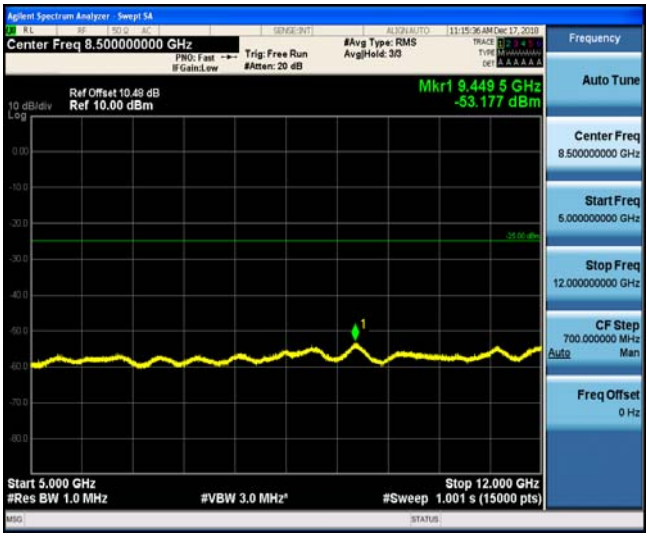
Band7_20MHz_QPSK_21350_1RB#0



Band7_20MHz_QPSK_21350_1RB#0

Band7_20MHz_QPSK_21350_1RB#0

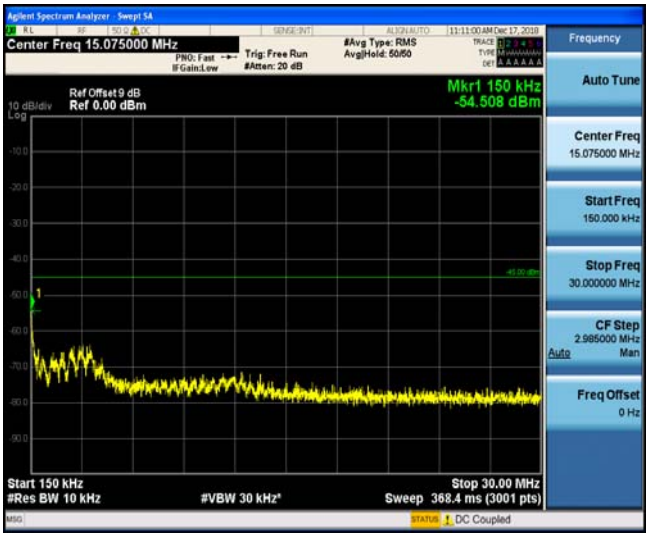
Band7_20MHz_QPSK_21350_1RB#0



Band7_20MHz_QPSK_21350_1RB#0

Band7_20MHz_16QAM_20850_1RB#0

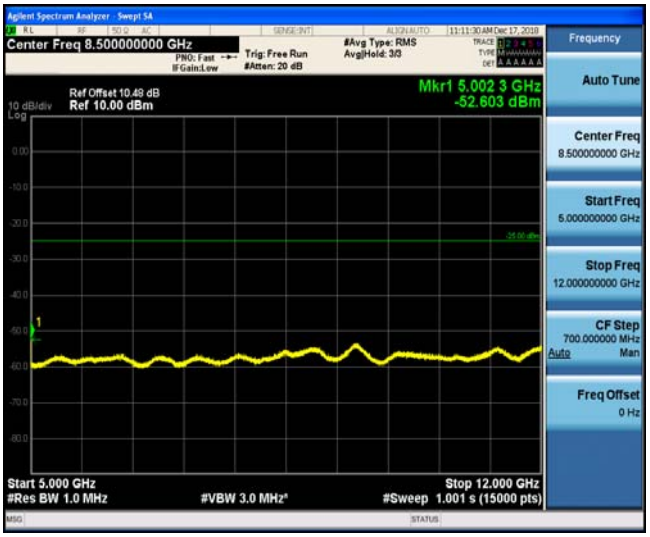
Band7_20MHz_16QAM_20850_1RB#0



Band7_20MHz_16QAM_20850_1RB#0

Band7_20MHz_16QAM_20850_1RB#0

Band7_20MHz_16QAM_20850_1RB#0



Band7_20MHz_16QAM_20850_1RB#0

Band7_20MHz_16QAM_21100_1RB#0

Band7_20MHz_16QAM_21100_1RB#0

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Band7_20MHz_16QAM_21100_1RB#0

Band7_20MHz_16QAM_21350_1RB#0

Band7_20MHz_16QAM_21350_1RB#0

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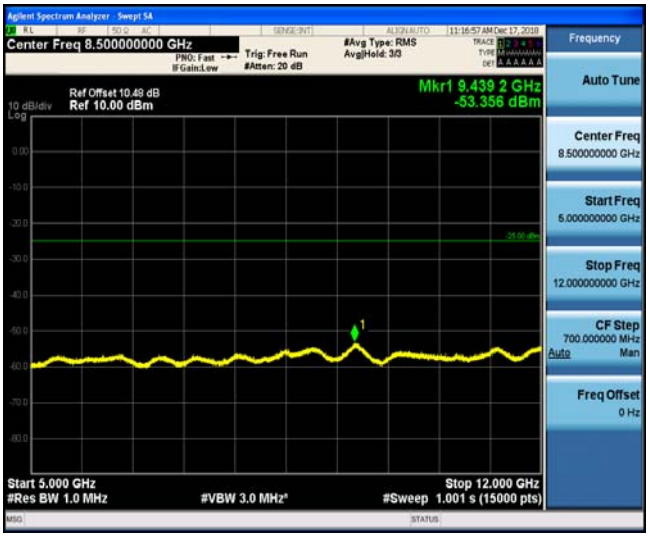
Band7_20MHz_16QAM_21350_1RB#0



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 (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	2.33	0.000931	± 2.5	PASS
		VN	TN	-0.58	-0.000232	± 2.5	PASS
		VH	TN	3.24	0.001295	± 2.5	PASS
	MCH	VL	TN	3.72	0.001467	± 2.5	PASS
		VN	TN	4.04	0.001594	± 2.5	PASS
		VH	TN	-0.44	-0.000174	± 2.5	PASS
	HCH	VL	TN	1	0.000389	± 2.5	PASS
		VN	TN	0.88	0.000343	± 2.5	PASS
		VH	TN	4.69	0.001827	± 2.5	PASS
16QAM	LCH	VL	TN	-1.41	-0.000563	± 2.5	PASS
		VN	TN	4.5	0.001798	± 2.5	PASS
		VH	TN	-1.31	-0.000523	± 2.5	PASS
	MCH	VL	TN	2.81	0.001108	± 2.5	PASS
		VN	TN	-0.1	-0.000039	± 2.5	PASS
		VH	TN	-1.77	-0.000698	± 2.5	PASS
	HCH	VL	TN	1.09	0.000425	± 2.5	PASS
		VN	TN	2.83	0.001102	± 2.5	PASS
		VH	TN	2.28	0.000888	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.22	0.000887	± 2.5	PASS
		VN	-20	3.52	0.001407	± 2.5	PASS
		VN	-10	3.61	0.001443	± 2.5	PASS
		VN	0	1.46	0.000583	± 2.5	PASS
		VN	10	4.47	0.001786	± 2.5	PASS
		VN	20	4.87	0.001946	± 2.5	PASS
		VN	30	-1.58	-0.000631	± 2.5	PASS
		VN	40	0.41	0.000164	± 2.5	PASS
		VN	50	-0.38	-0.000152	± 2.5	PASS
	MCH	VN	-30	1.25	0.000493	± 2.5	PASS

		VN	-20	2.41	0.000951	± 2.5	PASS
		VN	-10	2.37	0.000935	± 2.5	PASS
		VN	0	4.48	0.001767	± 2.5	PASS
		VN	10	1.52	0.000600	± 2.5	PASS
		VN	20	0.44	0.000174	± 2.5	PASS
		VN	30	2.41	0.000951	± 2.5	PASS
		VN	40	-0.21	-0.000083	± 2.5	PASS
		VN	50	3.07	0.001211	± 2.5	PASS
	HCH	VN	-30	-1.67	-0.000650	± 2.5	PASS
		VN	-20	4.75	0.001850	± 2.5	PASS
		VN	-10	-1.79	-0.000697	± 2.5	PASS
		VN	0	2.19	0.000853	± 2.5	PASS
		VN	10	-0.59	-0.000230	± 2.5	PASS
		VN	20	-1.16	-0.000452	± 2.5	PASS
		VN	30	2.9	0.001130	± 2.5	PASS
		VN	40	1.07	0.000417	± 2.5	PASS
		VN	50	-1.52	-0.000592	± 2.5	PASS
16QAM	LCH	VN	-30	2	0.000799	± 2.5	PASS
		VN	-20	1.5	0.000599	± 2.5	PASS
		VN	-10	4.73	0.001890	± 2.5	PASS
		VN	0	4.81	0.001922	± 2.5	PASS
		VN	10	-0.78	-0.000312	± 2.5	PASS
		VN	20	3.63	0.001451	± 2.5	PASS
		VN	30	0.51	0.000204	± 2.5	PASS
		VN	40	1.11	0.000444	± 2.5	PASS
		VN	50	1.09	0.000436	± 2.5	PASS
	MCH	VN	-30	-1.43	-0.000564	± 2.5	PASS
		VN	-20	3.86	0.001523	± 2.5	PASS
		VN	-10	-0.59	-0.000233	± 2.5	PASS
		VN	0	0.77	0.000304	± 2.5	PASS
		VN	10	1.14	0.000450	± 2.5	PASS
		VN	20	-1.81	-0.000714	± 2.5	PASS
		VN	30	2.27	0.000895	± 2.5	PASS
		VN	40	1.37	0.000540	± 2.5	PASS
		VN	50	1.36	0.000536	± 2.5	PASS
	HCH	VN	-30	-0.86	-0.000335	± 2.5	PASS
		VN	-20	3.13	0.001219	± 2.5	PASS
		VN	-10	1.74	0.000678	± 2.5	PASS
		VN	0	-0.97	-0.000378	± 2.5	PASS
		VN	10	0.22	0.000086	± 2.5	PASS
		VN	20	4.67	0.001819	± 2.5	PASS

		VN	30	0.18	0.000070	± 2.5	PASS
		VN	40	-0.86	-0.000335	± 2.5	PASS
		VN	50	-1.47	-0.000573	± 2.5	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	0.36	0.000144	± 2.5	PASS
		VN	TN	-1.62	-0.000647	± 2.5	PASS
		VH	TN	2.21	0.000882	± 2.5	PASS
	MCH	VL	TN	1.96	0.000773	± 2.5	PASS
		VN	TN	0.55	0.000217	± 2.5	PASS
		VH	TN	-1.57	-0.000619	± 2.5	PASS
	HCH	VL	TN	-1.26	-0.000491	± 2.5	PASS
		VN	TN	3.34	0.001302	± 2.5	PASS
		VH	TN	0.52	0.000203	± 2.5	PASS
16QAM	LCH	VL	TN	-1.33	-0.000531	± 2.5	PASS
		VN	TN	-1.99	-0.000794	± 2.5	PASS
		VH	TN	3.33	0.001329	± 2.5	PASS
	MCH	VL	TN	-0.83	-0.000327	± 2.5	PASS
		VN	TN	4.87	0.001921	± 2.5	PASS
		VH	TN	4.9	0.001933	± 2.5	PASS
	HCH	VL	TN	-0.57	-0.000222	± 2.5	PASS
		VN	TN	-0.09	-0.000035	± 2.5	PASS
		VH	TN	-0.55	-0.000214	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	1.68	0.000671	± 2.5	PASS
		VN	-20	4.92	0.001964	± 2.5	PASS
		VN	-10	1.44	0.000575	± 2.5	PASS
		VN	0	-1.35	-0.000539	± 2.5	PASS
		VN	10	4.97	0.001984	± 2.5	PASS
		VN	20	3.01	0.001202	± 2.5	PASS
		VN	30	3.17	0.001265	± 2.5	PASS
		VN	40	0.8	0.000319	± 2.5	PASS
		VN	50	3.16	0.001261	± 2.5	PASS
	MCH	VN	-30	4.7	0.001854	± 2.5	PASS
		VN	-20	3.81	0.001503	± 2.5	PASS

		VN	-10	4.72	0.001862	± 2.5	PASS
		VN	0	2.3	0.000907	± 2.5	PASS
		VN	10	-0.05	-0.000020	± 2.5	PASS
		VN	20	3.13	0.001235	± 2.5	PASS
		VN	30	2.91	0.001148	± 2.5	PASS
		VN	40	-1.22	-0.000481	± 2.5	PASS
		VN	50	3.41	0.001345	± 2.5	PASS
	HCH	VN	-30	3.91	0.001524	± 2.5	PASS
		VN	-20	-1.39	-0.000542	± 2.5	PASS
		VN	-10	-1.01	-0.000394	± 2.5	PASS
		VN	0	3.37	0.001314	± 2.5	PASS
		VN	10	0.16	0.000062	± 2.5	PASS
		VN	20	3.86	0.001505	± 2.5	PASS
		VN	30	-0.35	-0.000136	± 2.5	PASS
		VN	40	2.51	0.000979	± 2.5	PASS
		VN	50	3.91	0.001524	± 2.5	PASS
QPSK	LCH	VN	-30	0.57	0.000228	± 2.5	PASS
		VN	-20	2.72	0.001086	± 2.5	PASS
		VN	-10	-0.12	-0.000048	± 2.5	PASS
		VN	0	-1.07	-0.000427	± 2.5	PASS
		VN	10	-0.28	-0.000112	± 2.5	PASS
		VN	20	3.58	0.001429	± 2.5	PASS
		VN	30	-1.84	-0.000735	± 2.5	PASS
		VN	40	0.92	0.000367	± 2.5	PASS
		VN	50	-0.54	-0.000216	± 2.5	PASS
	MCH	VN	-30	4.14	0.001633	± 2.5	PASS
		VN	-20	0.12	0.000047	± 2.5	PASS
		VN	-10	-1.77	-0.000698	± 2.5	PASS
		VN	0	-1.59	-0.000627	± 2.5	PASS
		VN	10	4.4	0.001736	± 2.5	PASS
		VN	20	3.79	0.001495	± 2.5	PASS
		VN	30	2.81	0.001108	± 2.5	PASS
		VN	40	-1.2	-0.000473	± 2.5	PASS
		VN	50	2.61	0.001030	± 2.5	PASS
	HCH	VN	-30	-0.64	-0.000250	± 2.5	PASS
		VN	-20	1.63	0.000635	± 2.5	PASS
		VN	-10	-0.86	-0.000335	± 2.5	PASS
		VN	0	2.08	0.000811	± 2.5	PASS
		VN	10	4.89	0.001906	± 2.5	PASS
		VN	20	0.9	0.000351	± 2.5	PASS
		VN	30	3.56	0.001388	± 2.5	PASS

		VN	40	-1.3	-0.000507	± 2.5	PASS
		VN	50	0.33	0.000129	± 2.5	PASS

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-1.45	-0.000578	± 2.5	PASS
		VN	TN	3.5	0.001396	± 2.5	PASS
		VH	TN	1.03	0.000411	± 2.5	PASS
	MCH	VL	TN	-0.17	-0.000067	± 2.5	PASS
		VN	TN	3.21	0.001266	± 2.5	PASS
		VH	TN	4.24	0.001673	± 2.5	PASS
	HCH	VL	TN	3.31	0.001292	± 2.5	PASS
		VN	TN	1.56	0.000609	± 2.5	PASS
		VH	TN	0.96	0.000375	± 2.5	PASS
16QAM	LCH	VL	TN	-0.78	-0.000311	± 2.5	PASS
		VN	TN	0.98	0.000391	± 2.5	PASS
		VH	TN	4.9	0.001954	± 2.5	PASS
	MCH	VL	TN	3.39	0.001337	± 2.5	PASS
		VN	TN	0.14	0.000055	± 2.5	PASS
		VH	TN	-1.14	-0.000450	± 2.5	PASS
	HCH	VL	TN	-1.28	-0.000500	± 2.5	PASS
		VN	TN	3.54	0.001381	± 2.5	PASS
		VH	TN	-1.1	-0.000429	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.61	-0.000642	± 2.5	PASS
		VN	-20	4.54	0.001811	± 2.5	PASS
		VN	-10	-0.25	-0.000100	± 2.5	PASS
		VN	0	0.36	0.000144	± 2.5	PASS
		VN	10	2.48	0.000989	± 2.5	PASS
		VN	20	2.25	0.000897	± 2.5	PASS
		VN	30	1.25	0.000499	± 2.5	PASS
		VN	40	3.24	0.001292	± 2.5	PASS
		VN	50	-0.69	-0.000275	± 2.5	PASS
	MCH	VN	-30	1.06	0.000418	± 2.5	PASS
		VN	-20	1.5	0.000592	± 2.5	PASS
		VN	-10	4.64	0.001830	± 2.5	PASS

		VN	0	2.58	0.001018	± 2.5	PASS
		VN	10	2.22	0.000876	± 2.5	PASS
		VN	20	4.66	0.001838	± 2.5	PASS
		VN	30	3.49	0.001377	± 2.5	PASS
		VN	40	1.43	0.000564	± 2.5	PASS
		VN	50	-0.92	-0.000363	± 2.5	PASS
	HCH	VN	-30	-0.05	-0.000020	± 2.5	PASS
		VN	-20	0.26	0.000101	± 2.5	PASS
		VN	-10	4.51	0.001760	± 2.5	PASS
		VN	0	0.92	0.000359	± 2.5	PASS
		VN	10	-0.06	-0.000023	± 2.5	PASS
		VN	20	-0.04	-0.000016	± 2.5	PASS
		VN	30	0.26	0.000101	± 2.5	PASS
		VN	40	-1.03	-0.000402	± 2.5	PASS
		VN	50	1.02	0.000398	± 2.5	PASS
16QAM	LCH	VN	-30	2.54	0.001013	± 2.5	PASS
		VN	-20	0.4	0.000160	± 2.5	PASS
		VN	-10	3.96	0.001579	± 2.5	PASS
		VN	0	-0.82	-0.000327	± 2.5	PASS
		VN	10	3.23	0.001288	± 2.5	PASS
		VN	20	2.36	0.000941	± 2.5	PASS
		VN	30	1.69	0.000674	± 2.5	PASS
		VN	40	-1.5	-0.000598	± 2.5	PASS
		VN	50	4.15	0.001655	± 2.5	PASS
	MCH	VN	-30	2.19	0.000864	± 2.5	PASS
		VN	-20	-0.88	-0.000347	± 2.5	PASS
		VN	-10	4.43	0.001748	± 2.5	PASS
		VN	0	2.94	0.001160	± 2.5	PASS
		VN	10	-0.7	-0.000276	± 2.5	PASS
		VN	20	1.3	0.000513	± 2.5	PASS
		VN	30	0.01	0.000004	± 2.5	PASS
		VN	40	0.17	0.000067	± 2.5	PASS
		VN	50	-1.87	-0.000738	± 2.5	PASS
	HCH	VN	-30	2.83	0.001104	± 2.5	PASS
		VN	-20	0.15	0.000059	± 2.5	PASS
		VN	-10	0.22	0.000086	± 2.5	PASS
		VN	0	-0.15	-0.000059	± 2.5	PASS
		VN	10	-1.25	-0.000488	± 2.5	PASS
		VN	20	4.38	0.001709	± 2.5	PASS
		VN	30	-0.94	-0.000367	± 2.5	PASS
		VN	40	2.9	0.001132	± 2.5	PASS

		VN	50	4.72	0.001842	± 2.5	PASS

Channel Bandwidth: 20 MHz

Channel Bandwidth: 20 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	2.85	0.001135	± 2.5	PASS
		VN	TN	0.14	0.000056	± 2.5	PASS
		VH	TN	1.33	0.000530	± 2.5	PASS
	MCH	VL	TN	-0.17	-0.000067	± 2.5	PASS
		VN	TN	3.54	0.001396	± 2.5	PASS
		VH	TN	-1.28	-0.000505	± 2.5	PASS
	HCH	VL	TN	1.9	0.000742	± 2.5	PASS
		VN	TN	1.48	0.000578	± 2.5	PASS
		VH	TN	4.81	0.001879	± 2.5	PASS
16QAM	LCH	VL	TN	3.71	0.001478	± 2.5	PASS
		VN	TN	-0.52	-0.000207	± 2.5	PASS
		VH	TN	4.59	0.001829	± 2.5	PASS
	MCH	VL	TN	2.12	0.000836	± 2.5	PASS
		VN	TN	-0.31	-0.000122	± 2.5	PASS
		VH	TN	2.08	0.000821	± 2.5	PASS
	HCH	VL	TN	4.31	0.001684	± 2.5	PASS
		VN	TN	3.8	0.001484	± 2.5	PASS
		VH	TN	2.83	0.001105	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.95	0.001175	± 2.5	PASS
		VN	-20	3.37	0.001343	± 2.5	PASS
		VN	-10	3.46	0.001378	± 2.5	PASS
		VN	0	-0.62	-0.000247	± 2.5	PASS
		VN	10	3.24	0.001291	± 2.5	PASS
		VN	20	-0.33	-0.000131	± 2.5	PASS
		VN	30	-0.96	-0.000382	± 2.5	PASS
		VN	40	1.34	0.000534	± 2.5	PASS
		VN	50	0.86	0.000343	± 2.5	PASS
	MCH	VN	-30	0.09	0.000036	± 2.5	PASS
		VN	-20	0.02	0.000008	± 2.5	PASS
		VN	-10	0.24	0.000095	± 2.5	PASS
		VN	0	4.3	0.001696	± 2.5	PASS

		VN	10	4.97	0.001961	± 2.5	PASS
		VN	20	0.51	0.000201	± 2.5	PASS
		VN	30	2.47	0.000974	± 2.5	PASS
		VN	40	1.9	0.000750	± 2.5	PASS
		VN	50	1.34	0.000529	± 2.5	PASS
	HCH	VN	-30	-1.41	-0.000551	± 2.5	PASS
		VN	-20	-1.58	-0.000617	± 2.5	PASS
		VN	-10	3.9	0.001523	± 2.5	PASS
		VN	0	0.65	0.000254	± 2.5	PASS
		VN	10	4.88	0.001906	± 2.5	PASS
		VN	20	2.46	0.000961	± 2.5	PASS
		VN	30	2.6	0.001016	± 2.5	PASS
		VN	40	3.49	0.001363	± 2.5	PASS
		VN	50	2.88	0.001125	± 2.5	PASS
	LCH	VN	-30	4.94	0.001968	± 2.5	PASS
		VN	-20	-0.29	-0.000116	± 2.5	PASS
		VN	-10	4.35	0.001733	± 2.5	PASS
		VN	0	1.6	0.000637	± 2.5	PASS
		VN	10	-0.61	-0.000243	± 2.5	PASS
		VN	20	1.32	0.000526	± 2.5	PASS
		VN	30	0.79	0.000315	± 2.5	PASS
		VN	40	2.07	0.000825	± 2.5	PASS
		VN	50	2.77	0.001104	± 2.5	PASS
	MCH	VN	-30	4.69	0.001850	± 2.5	PASS
		VN	-20	0.39	0.000154	± 2.5	PASS
		VN	-10	0.1	0.000039	± 2.5	PASS
		VN	0	-1.43	-0.000564	± 2.5	PASS
16QAM		VN	10	0.57	0.000225	± 2.5	PASS
		VN	20	-1.92	-0.000757	± 2.5	PASS
		VN	30	3.36	0.001325	± 2.5	PASS
		VN	40	1.98	0.000781	± 2.5	PASS
		VN	50	2.8	0.001105	± 2.5	PASS
	HCH	VN	-30	-0.53	-0.000207	± 2.5	PASS
		VN	-20	4.3	0.001680	± 2.5	PASS
		VN	-10	1.56	0.000609	± 2.5	PASS
		VN	0	1.57	0.000613	± 2.5	PASS
		VN	10	4.2	0.001641	± 2.5	PASS
		VN	20	1.87	0.000730	± 2.5	PASS
		VN	30	2.71	0.001059	± 2.5	PASS
		VN	40	0.81	0.000316	± 2.5	PASS
		VN	50	-0.94	-0.000367	± 2.5	PASS