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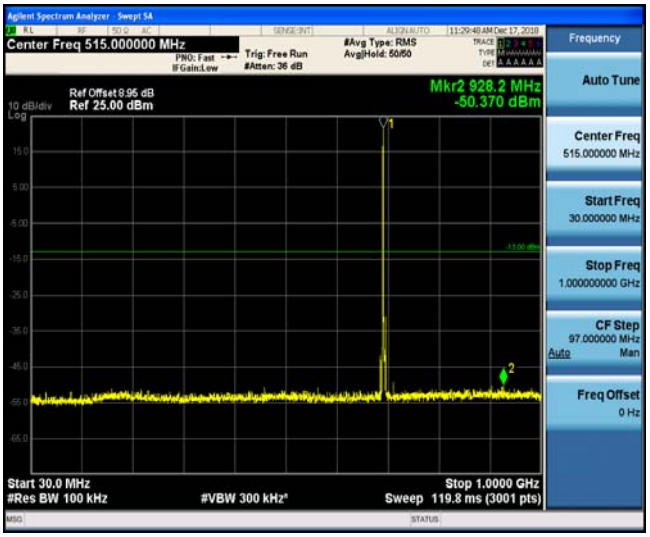
Band12_3MHz_QPSK_23025_1RB#0

Band12_3MHz_QPSK_23025_1RB#0



Band12_3MHz_QPSK_23025_1RB#0

Band12_3MHz_QPSK_23025_1RB#0

Band12_3MHz_QPSK_23025_1RB#0

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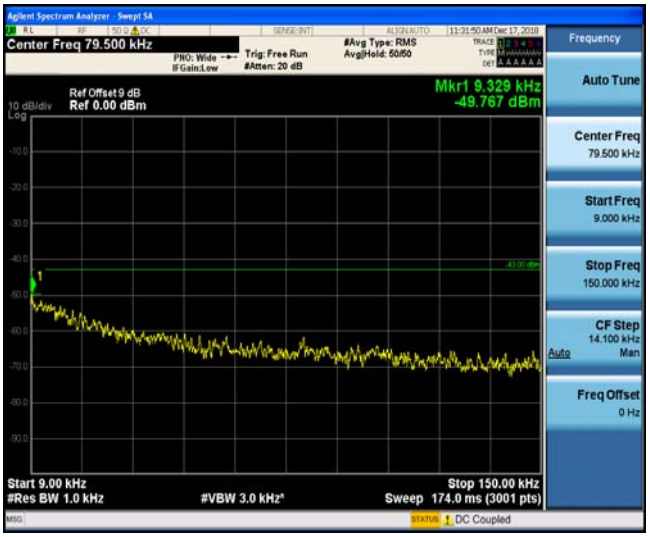
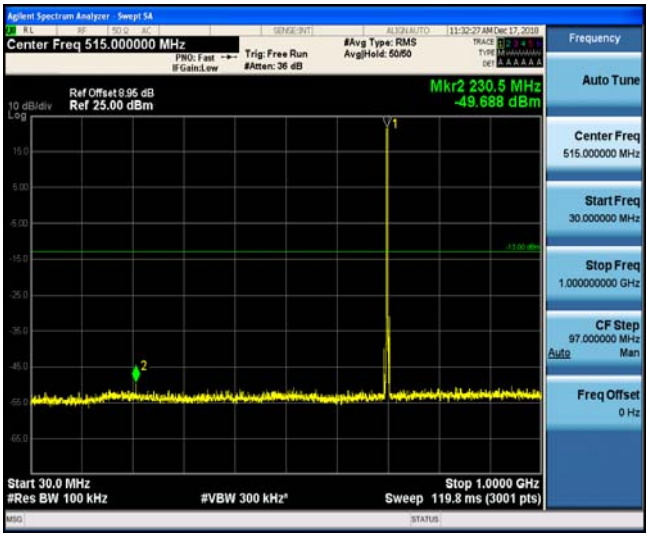


Band12_3MHz_QPSK_23095_1RB#0

Band12_3MHz_QPSK_23095_1RB#0



Band12_3MHz_QPSK_23095_1RB#0

Band12_3MHz_QPSK_23095_1RB#0

Band12_3MHz_QPSK_23095_1RB#0

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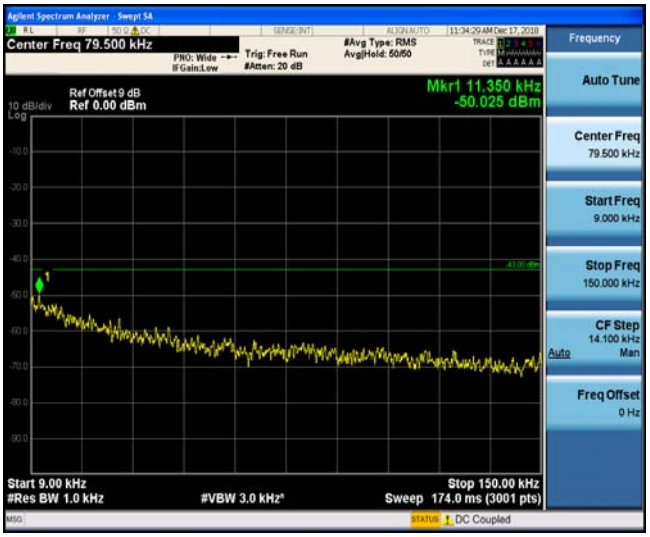

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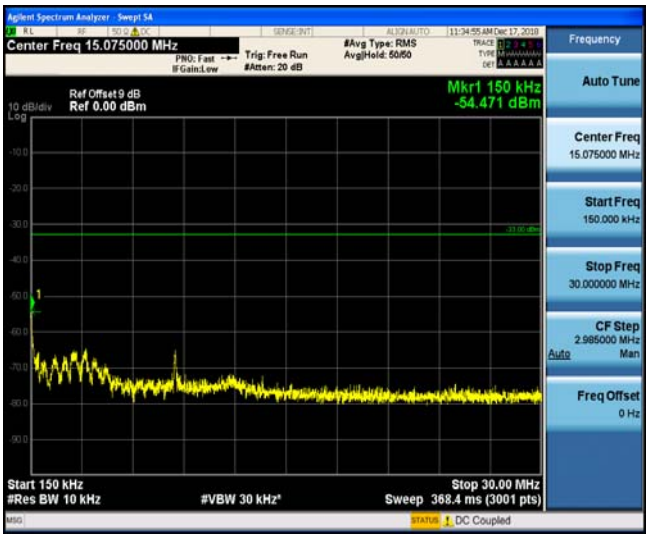

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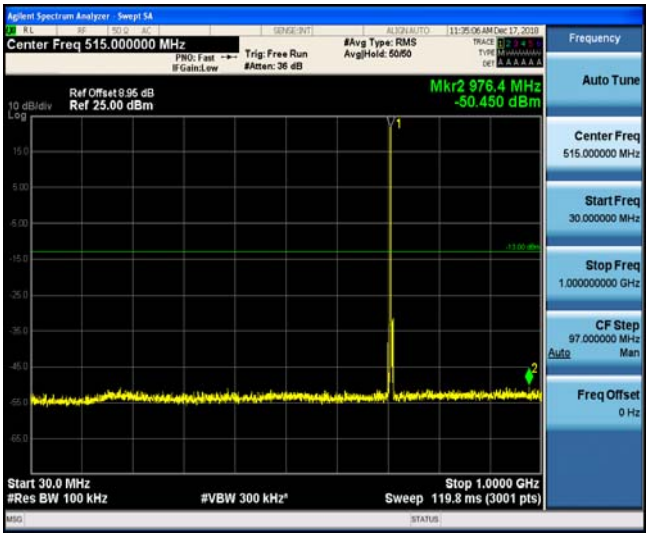

Band12_3MHz_QPSK_23165_1RB#0

Band12_3MHz_QPSK_23165_1RB#0

Band12_3MHz_QPSK_23165_1RB#0

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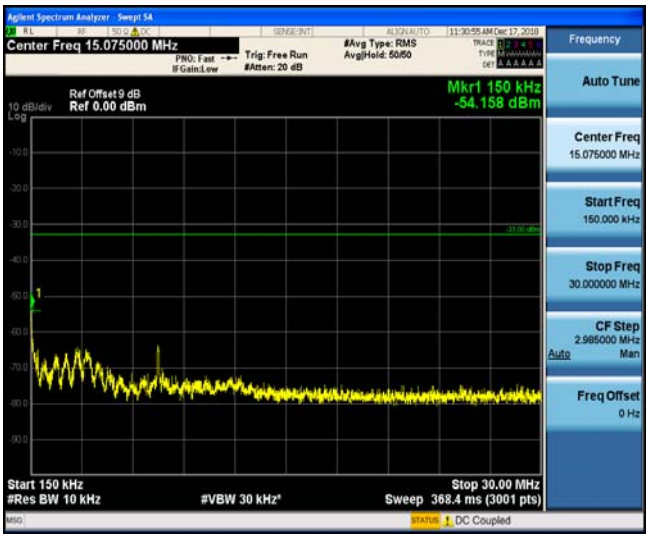
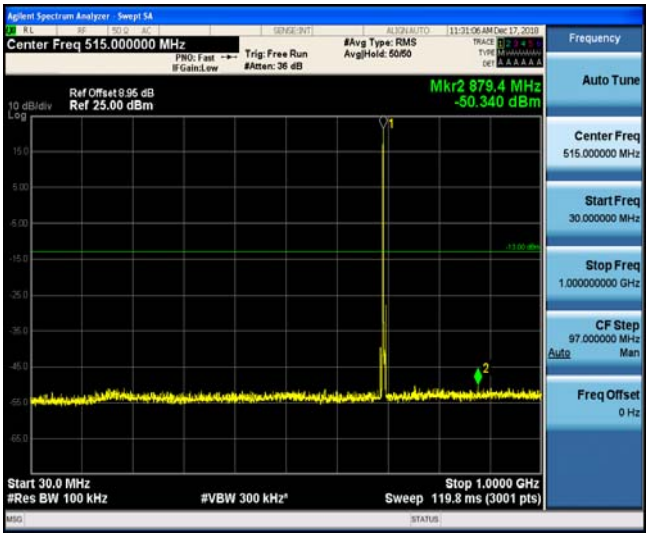


Band12_3MHz_16QAM_23025_1RB#0



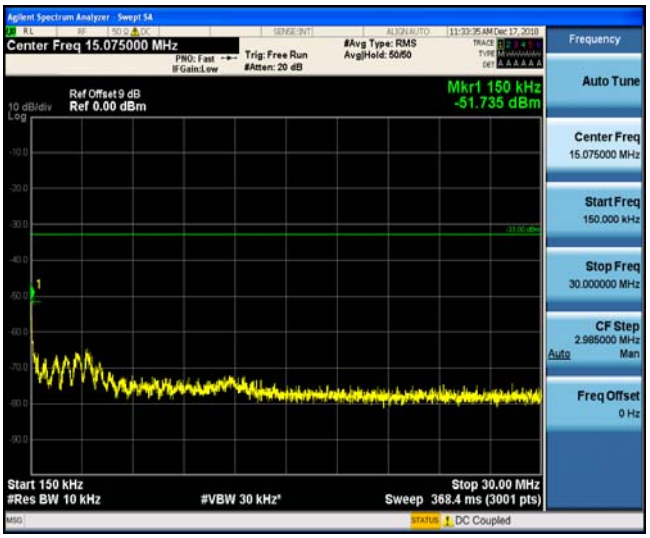
Band12_3MHz_16QAM_23025_1RB#0

Band12_3MHz_16QAM_23025_1RB#0

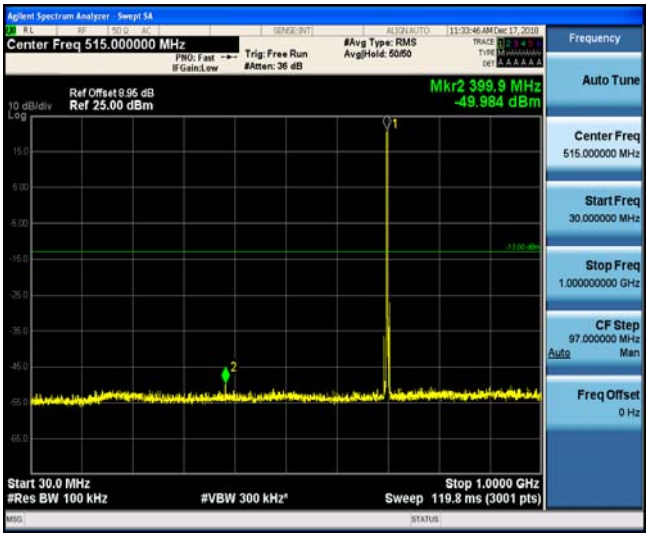
Band12_3MHz_16QAM_23025_1RB#0

Band12_3MHz_16QAM_23095_1RB#0

Band12_3MHz_16QAM_23095_1RB#0



Band12_3MHz_16QAM_23095_1RB#0



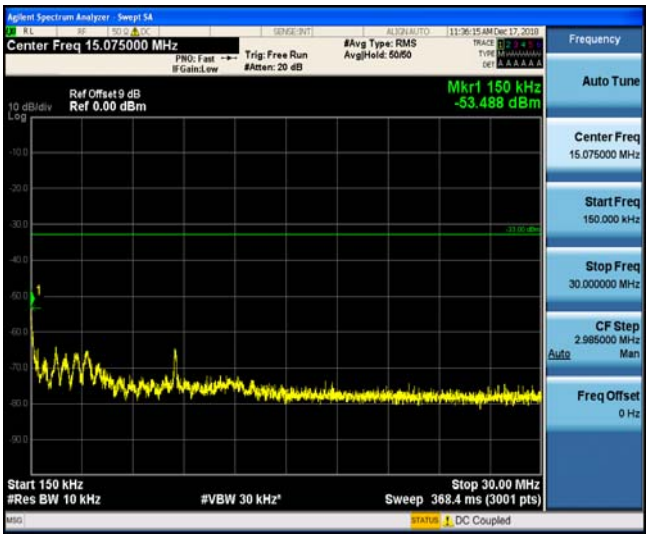
Band12_3MHz_16QAM_23095_1RB#0

Band12_3MHz_16QAM_23095_1RB#0

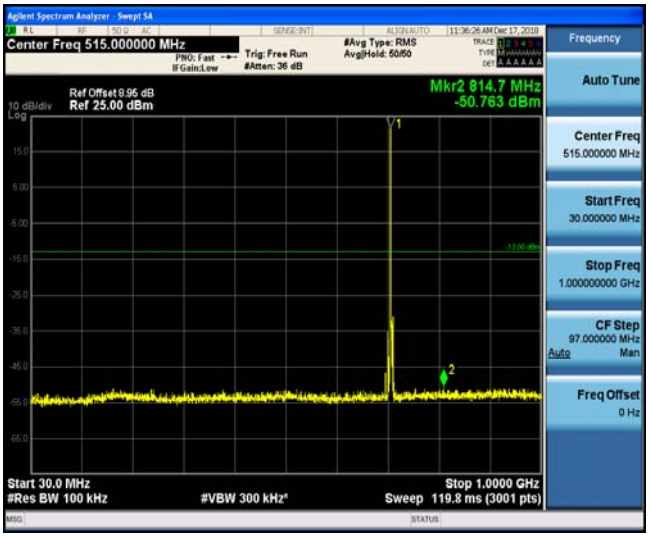
Band12_3MHz_16QAM_23095_1RB#0

Band12_3MHz_16QAM_23165_1RB#0

Band12_3MHz_16QAM_23165_1RB#0



Band12_3MHz_16QAM_23165_1RB#0



Band12_3MHz_16QAM_23165_1RB#0

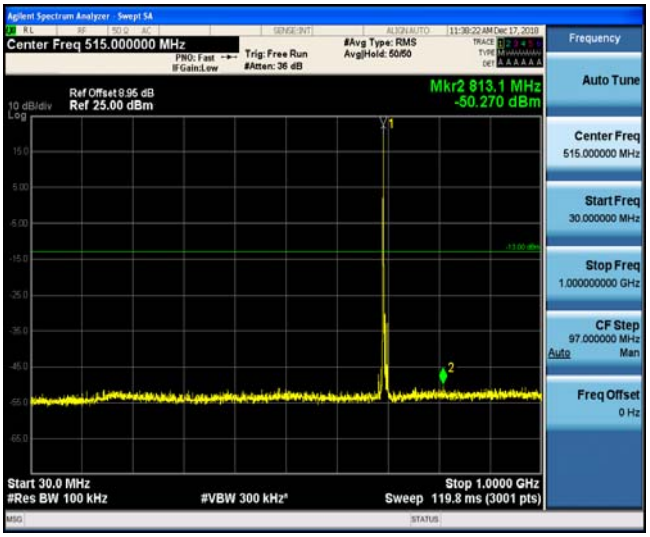
Band12_3MHz_16QAM_23165_1RB#0

Band12_3MHz_16QAM_23165_1RB#0

Band12_5MHz_QPSK_23035_1RB#0

Band12_5MHz_QPSK_23035_1RB#0

Band12_5MHz_QPSK_23035_1RB#0



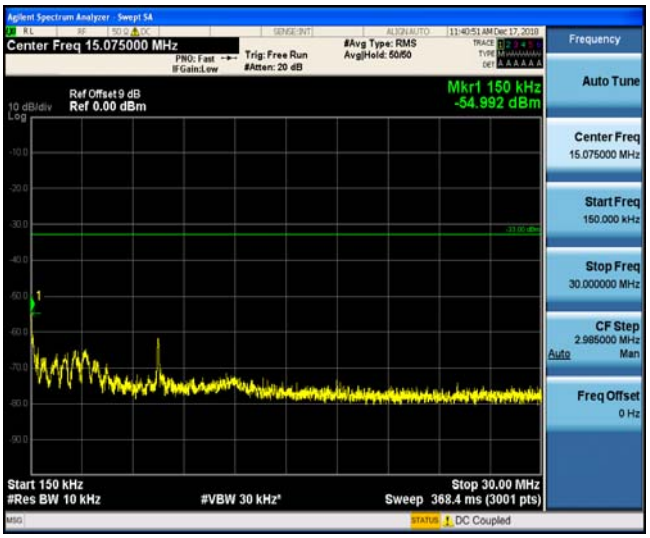
Band12_5MHz_QPSK_23035_1RB#0

Band12_5MHz_QPSK_23035_1RB#0

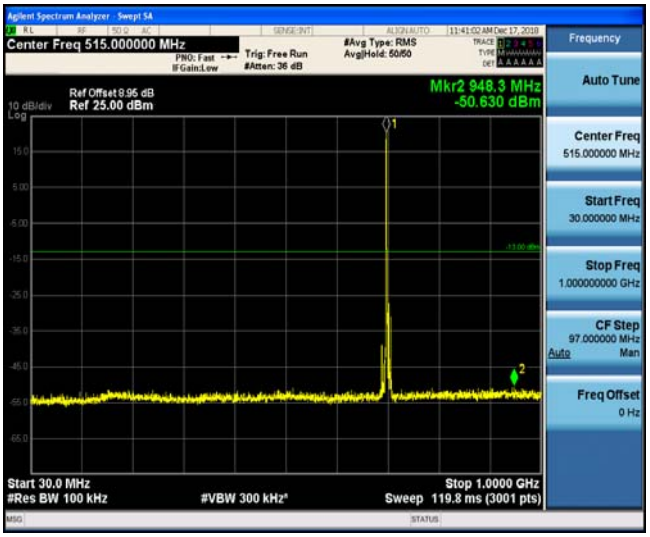
Band12_5MHz_QPSK_23035_1RB#0

Band12_5MHz_QPSK_23095_1RB#0

Band12_5MHz_QPSK_23095_1RB#0



Band12_5MHz_QPSK_23095_1RB#0



Band12_5MHz_QPSK_23095_1RB#0

Band12_5MHz_QPSK_23095_1RB#0

Band12_5MHz_QPSK_23095_1RB#0

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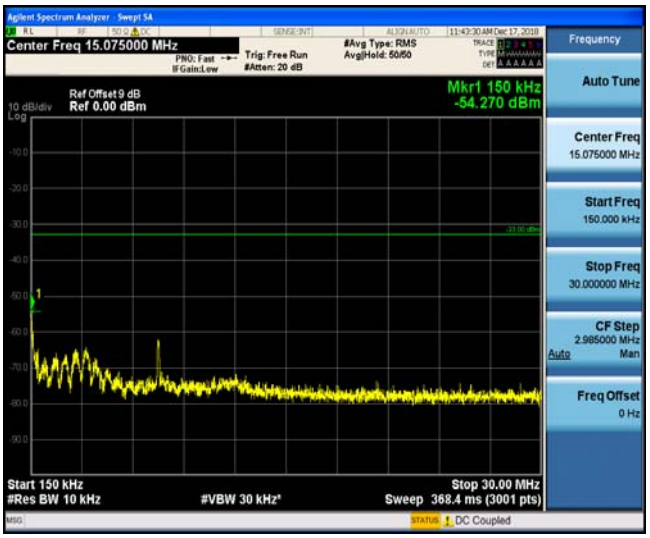
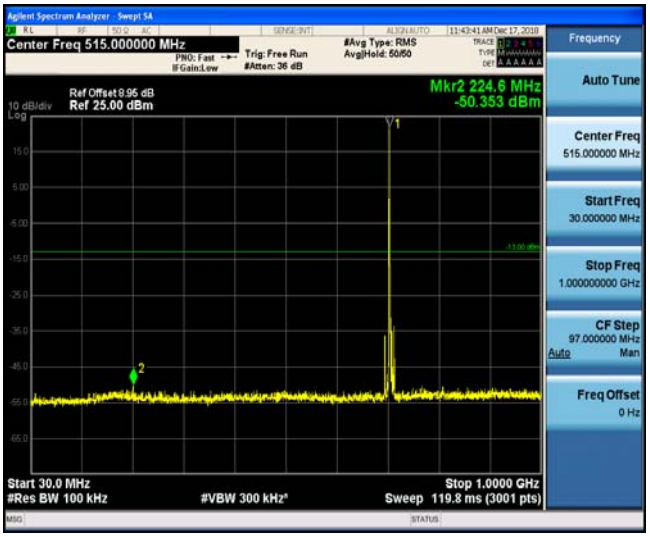
Band12_5MHz_QPSK_23155_1RB#0



Band12_5MHz_QPSK_23155_1RB#0



Band12_5MHz_QPSK_23155_1RB#0

Band12_5MHz_QPSK_23155_1RB#0

Band12_5MHz_QPSK_23155_1RB#0

Band12_5MHz_16QAM_23035_1RB#0

Band12_5MHz_16QAM_23035_1RB#0

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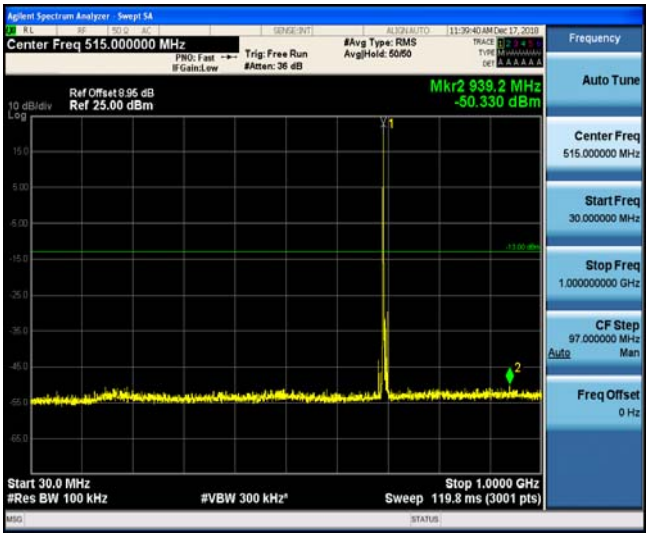


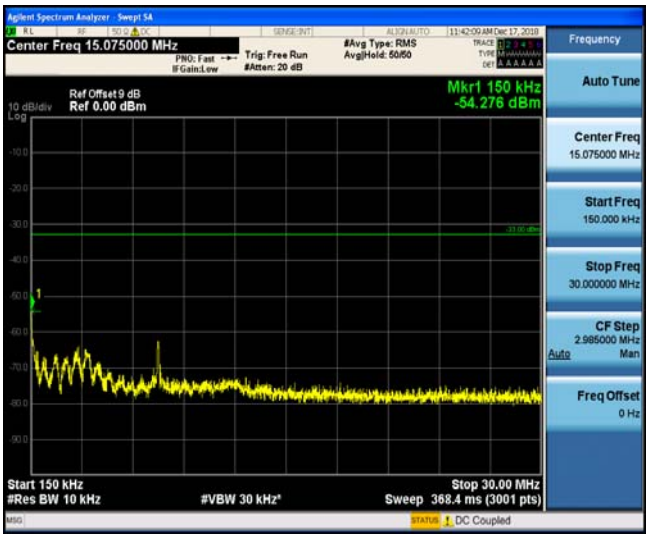
Band12_5MHz_16QAM_23035_1RB#0

Band12_5MHz_16QAM_23035_1RB#0

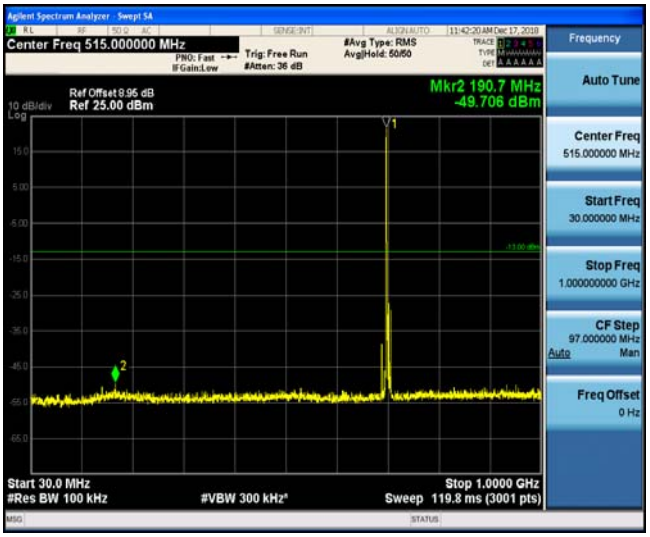
Band12_5MHz_16QAM_23035_1RB#0

Band12_5MHz_16QAM_23095_1RB#0

Band12_5MHz_16QAM_23095_1RB#0



Band12_5MHz_16QAM_23095_1RB#0



Band12_5MHz_16QAM_23095_1RB#0

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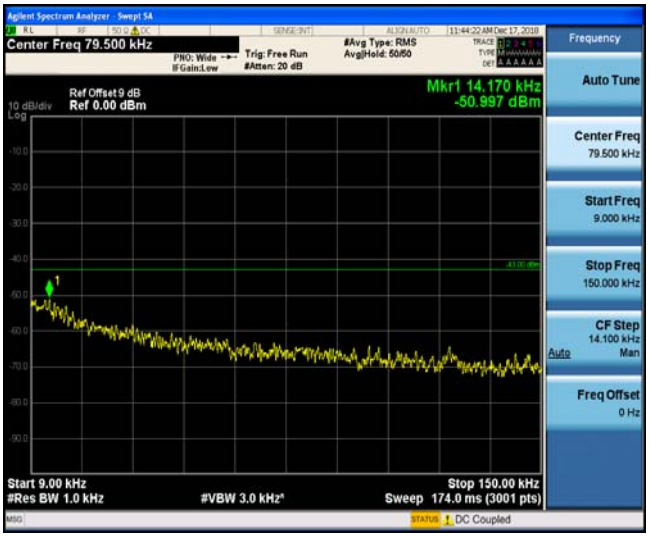

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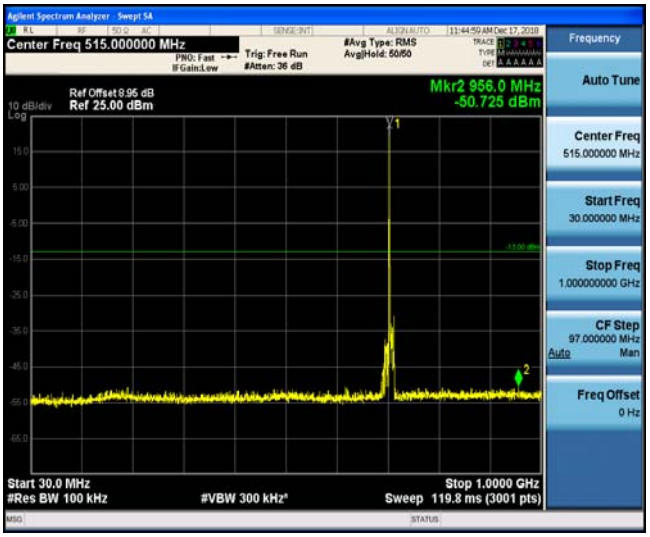


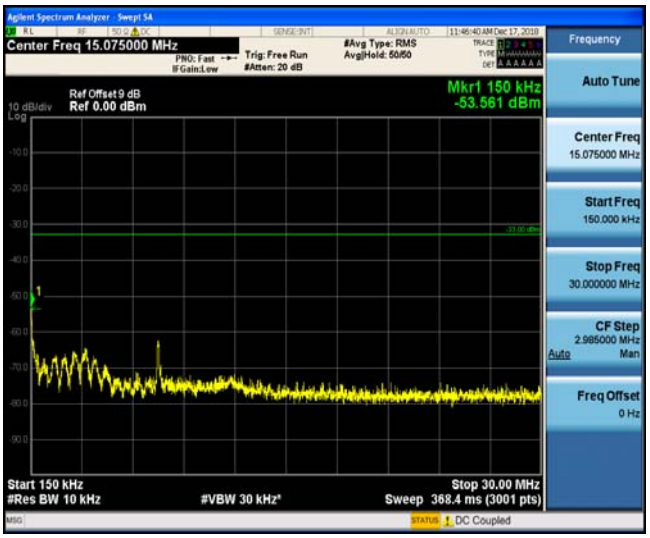
Band12_5MHz_16QAM_23155_1RB#0

Band12_5MHz_16QAM_23155_1RB#0

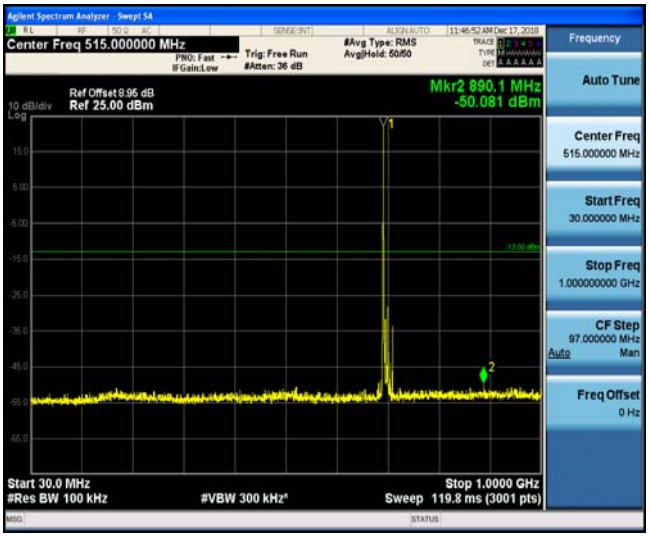
Band12_5MHz_16QAM_23155_1RB#0

Band12_10MHz_QPSK_23060_1RB#0

Band12_10MHz_QPSK_23060_1RB#0



Band12_10MHz_QPSK_23060_1RB#0



Band12_10MHz_QPSK_23060_1RB#0

Band12_10MHz_QPSK_23060_1RB#0

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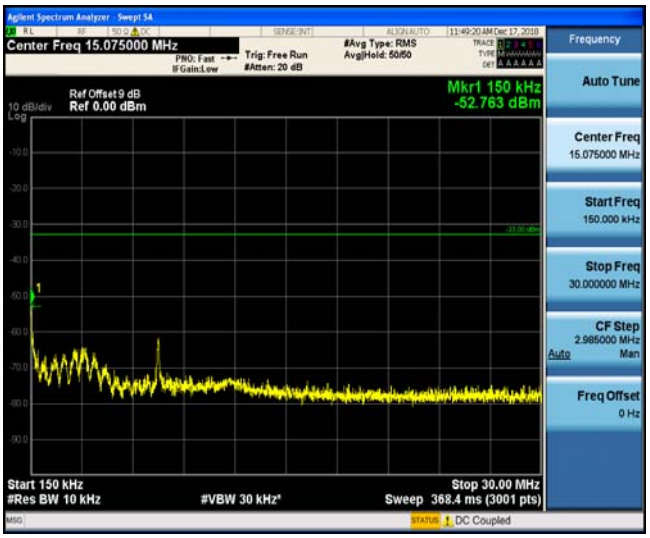
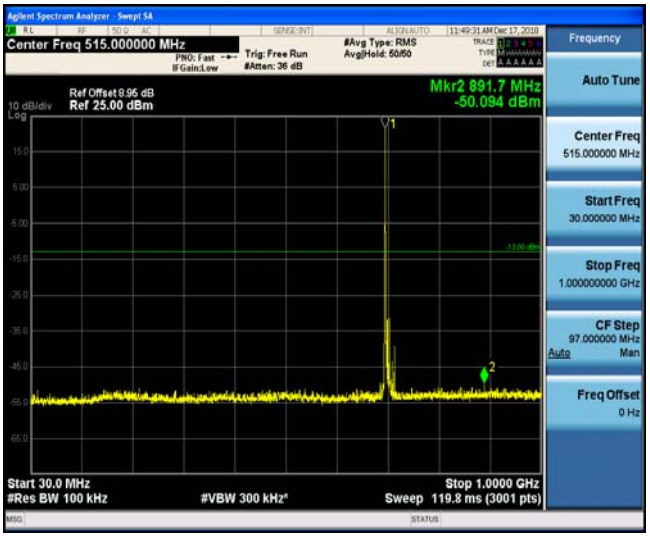
Band12_10MHz_QPSK_23095_1RB#0



Band12_10MHz_QPSK_23095_1RB#0



Band12_10MHz_QPSK_23095_1RB#0

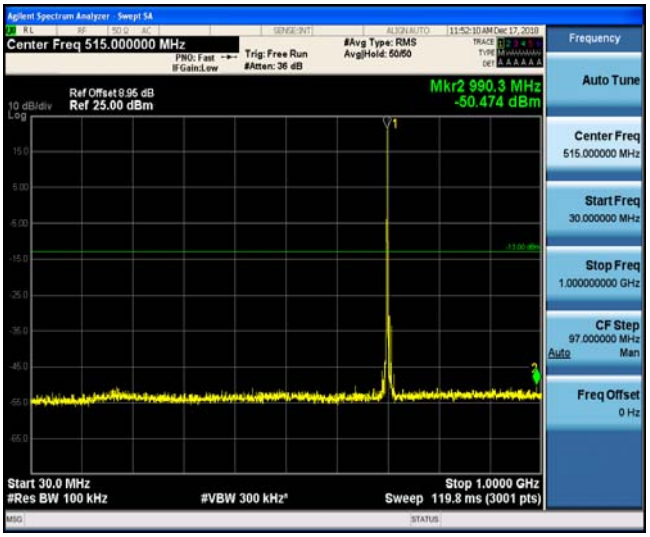
Band12_10MHz_QPSK_23095_1RB#0

Band12_10MHz_QPSK_23095_1RB#0

Band12_10MHz_QPSK_23130_1RB#0

Band12_10MHz_QPSK_23130_1RB#0

Band12_10MHz_QPSK_23130_1RB#0



Band12_10MHz_QPSK_23130_1RB#0

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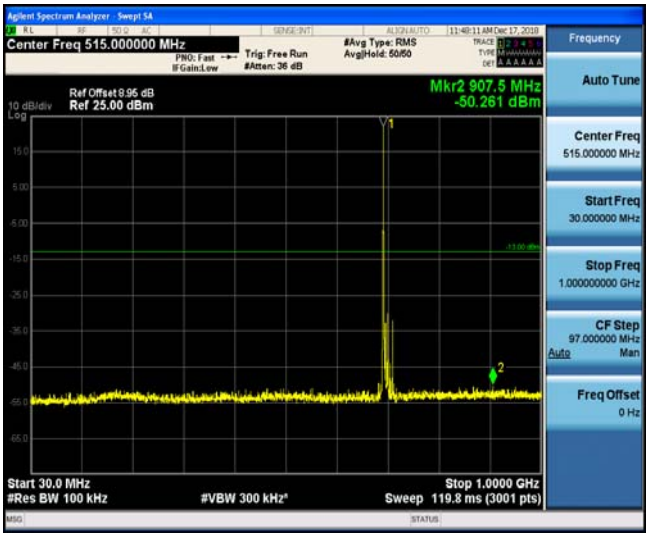
Band12_10MHz_QPSK_23130_1RB#0

Band12_10MHz_16QAM_23060_1RB#0

Band12_10MHz_16QAM_23060_1RB#0

Band12_10MHz_16QAM_23060_1RB#0



Band12_10MHz_16QAM_23060_1RB#0

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Band12_10MHz_16QAM_23060_1RB#0

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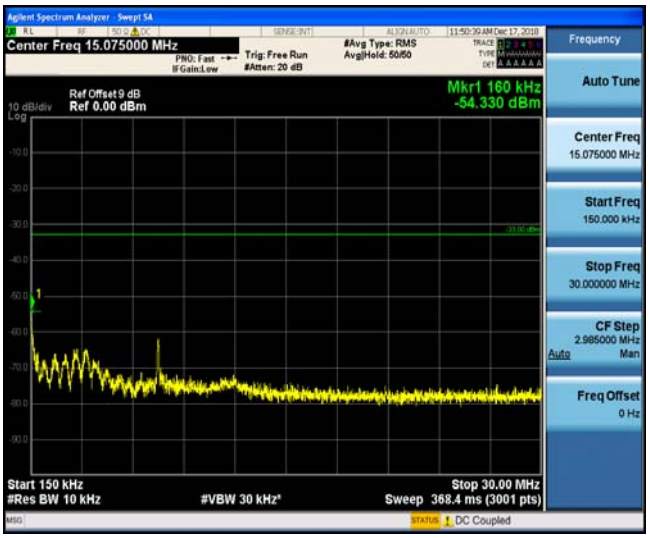
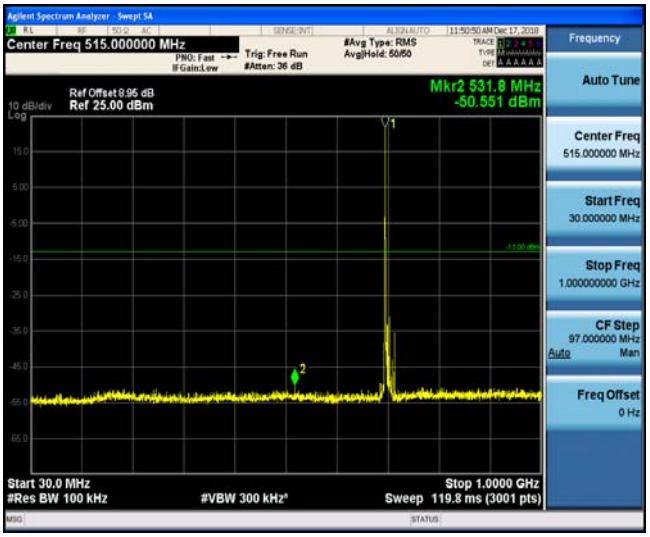
Band12_10MHz_16QAM_23095_1RB#0



Band12_10MHz_16QAM_23095_1RB#0



Band12_10MHz_16QAM_23095_1RB#0

Band12_10MHz_16QAM_23095_1RB#0

Band12_10MHz_16QAM_23095_1RB#0

Band12_10MHz_16QAM_23130_1RB#0

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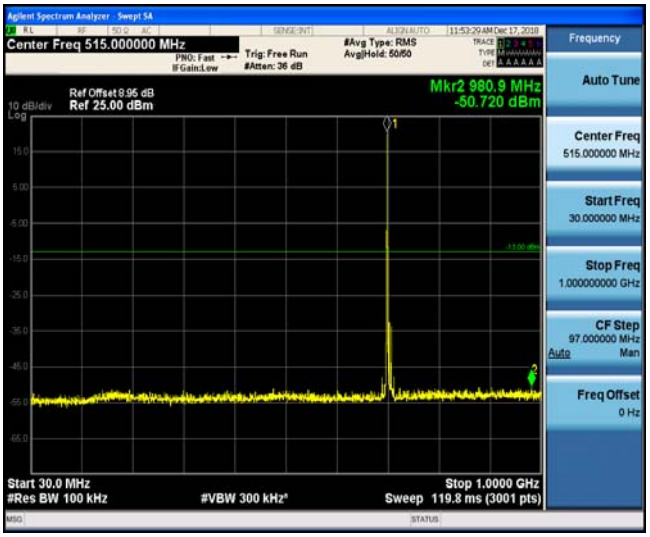
Band12_10MHz_16QAM_23130_1RB#0



Band12_10MHz_16QAM_23130_1RB#0

Band12_10MHz_16QAM_23130_1RB#0

Band12_10MHz_16QAM_23130_1RB#0


Agilent Spectrum Analyzer - Swept SA
Center Freq 15.000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
#Avg Type: RMS
Avg|Hold: 3/3
Frequency
Auto Tune
Ref Offset 18.76 dB
10 dB/div
Log
Ref 10.00 dBm
Mkr1 17.000 7 GHz
-40.665 dBm
Center Freq
15.000000000 GHz
Start Freq
12.000000000 GHz
Stop Freq
18.000000000 GHz
CF Step
600.000000 MHz
Auto
Man
Freq Offset
0 Hz
Start 12.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 18.000 GHz
#Sweep 1.001 s (15000 pts)

Appendix F: Frequency Stability

Test Result

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	2.32	0.003316	± 2.5	PASS
		VN	TN	3.19	0.004559	± 2.5	PASS
		VH	TN	-1.29	-0.001844	± 2.5	PASS
	MCH	VL	TN	-0.44	-0.000622	± 2.5	PASS
		VN	TN	4.42	0.006247	± 2.5	PASS
		VH	TN	3.2	0.004523	± 2.5	PASS
	HCH	VL	TN	-0.09	-0.000126	± 2.5	PASS
		VN	TN	3.89	0.005438	± 2.5	PASS
		VH	TN	1.4	0.001957	± 2.5	PASS
16QAM	LCH	VL	TN	4	0.005717	± 2.5	PASS
		VN	TN	1.41	0.002015	± 2.5	PASS
		VH	TN	0.3	0.000429	± 2.5	PASS
	MCH	VL	TN	1.64	0.002318	± 2.5	PASS
		VN	TN	1.35	0.001908	± 2.5	PASS
		VH	TN	0.71	0.001004	± 2.5	PASS
	HCH	VL	TN	4.88	0.006822	± 2.5	PASS
		VN	TN	3.72	0.005201	± 2.5	PASS
		VH	TN	-0.2	-0.000280	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.85	0.006932	± 2.5	PASS
		VN	-20	2.17	0.003101	± 2.5	PASS
		VN	-10	2.55	0.003644	± 2.5	PASS
		VN	0	-0.51	-0.000729	± 2.5	PASS
		VN	10	2.97	0.004245	± 2.5	PASS
		VN	20	3.16	0.004516	± 2.5	PASS
		VN	30	4.8	0.006860	± 2.5	PASS
		VN	40	0.8	0.001143	± 2.5	PASS
		VN	50	2.02	0.002887	± 2.5	PASS
	MCH	VN	-30	2.94	0.004155	± 2.5	PASS
		VN	-20	0.65	0.000919	± 2.5	PASS

		VN	-10	0.75	0.001060	± 2.5	PASS
		VN	0	-1.05	-0.001484	± 2.5	PASS
		VN	10	1.81	0.002558	± 2.5	PASS
		VN	20	3.04	0.004297	± 2.5	PASS
		VN	30	-0.43	-0.000608	± 2.5	PASS
		VN	40	2.72	0.003845	± 2.5	PASS
		VN	50	-0.63	-0.000890	± 2.5	PASS
	HCH	VN	-30	-0.82	-0.001146	± 2.5	PASS
		VN	-20	-1.2	-0.001678	± 2.5	PASS
		VN	-10	0.32	0.000447	± 2.5	PASS
		VN	0	0.76	0.001062	± 2.5	PASS
		VN	10	1.95	0.002726	± 2.5	PASS
		VN	20	-1.05	-0.001468	± 2.5	PASS
		VN	30	3.2	0.004474	± 2.5	PASS
		VN	40	-0.56	-0.000783	± 2.5	PASS
		VN	50	4.38	0.006123	± 2.5	PASS
16QAM	LCH	VN	-30	3.72	0.005317	± 2.5	PASS
		VN	-20	1.29	0.001844	± 2.5	PASS
		VN	-10	4.65	0.006646	± 2.5	PASS
		VN	0	1.73	0.002472	± 2.5	PASS
		VN	10	-1.84	-0.002630	± 2.5	PASS
		VN	20	4.69	0.006703	± 2.5	PASS
		VN	30	0.08	0.000114	± 2.5	PASS
		VN	40	2.35	0.003359	± 2.5	PASS
		VN	50	2.61	0.003730	± 2.5	PASS
	MCH	VN	-30	1.83	0.002587	± 2.5	PASS
		VN	-20	2.77	0.003915	± 2.5	PASS
		VN	-10	1.31	0.001852	± 2.5	PASS
		VN	0	-0.88	-0.001244	± 2.5	PASS
		VN	10	-1.83	-0.002587	± 2.5	PASS
		VN	20	-0.01	-0.000014	± 2.5	PASS
		VN	30	2.63	0.003717	± 2.5	PASS
		VN	40	0.57	0.000806	± 2.5	PASS
		VN	50	-0.26	-0.000367	± 2.5	PASS
	HCH	VN	-30	4.01	0.005606	± 2.5	PASS
		VN	-20	3.17	0.004432	± 2.5	PASS
		VN	-10	4.07	0.005690	± 2.5	PASS
		VN	0	4.88	0.006822	± 2.5	PASS
		VN	10	4.38	0.006123	± 2.5	PASS
		VN	20	-0.72	-0.001007	± 2.5	PASS
		VN	30	4.66	0.006515	± 2.5	PASS

		VN	40	3.35	0.004683	± 2.5	PASS
		VN	50	-0.9	-0.001258	± 2.5	PASS

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz+							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-0.85	-0.001212	± 2.5	PASS
		VN	TN	0.29	0.000413	± 2.5	PASS
		VH	TN	1.02	0.001454	± 2.5	PASS
	MCH	VL	TN	0.11	0.000155	± 2.5	PASS
		VN	TN	-0.23	-0.000325	± 2.5	PASS
		VH	TN	4.3	0.006078	± 2.5	PASS
	HCH	VL	TN	2.65	0.003714	± 2.5	PASS
		VN	TN	-1.07	-0.001500	± 2.5	PASS
		VH	TN	4.41	0.006181	± 2.5	PASS
16QAM	LCH	VL	TN	1.06	0.001511	± 2.5	PASS
		VN	TN	2.4	0.003421	± 2.5	PASS
		VH	TN	-0.24	-0.000342	± 2.5	PASS
	MCH	VL	TN	4.56	0.006445	± 2.5	PASS
		VN	TN	4.9	0.006926	± 2.5	PASS
		VH	TN	1.92	0.002714	± 2.5	PASS
	HCH	VL	TN	1.52	0.002130	± 2.5	PASS
		VN	TN	4.23	0.005929	± 2.5	PASS
		VH	TN	4.01	0.005620	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.1	0.000143	± 2.5	PASS
		VN	-20	-0.84	-0.001199	± 2.5	PASS
		VN	-10	-1.27	-0.001813	± 2.5	PASS
		VN	0	2.46	0.003512	± 2.5	PASS
		VN	10	4.01	0.005724	± 2.5	PASS
		VN	20	-0.39	-0.000557	± 2.5	PASS
		VN	30	0.15	0.000214	± 2.5	PASS
		VN	40	2.76	0.003940	± 2.5	PASS
		VN	50	-1.5	-0.002141	± 2.5	PASS
	MCH	VN	-30	-0.82	-0.001159	± 2.5	PASS
		VN	-20	2.5	0.003534	± 2.5	PASS
		VN	-10	4.91	0.006940	± 2.5	PASS

		VN	0	2.03	0.002869	± 2.5	PASS
		VN	10	3.91	0.005527	± 2.5	PASS
		VN	20	-1.48	-0.002092	± 2.5	PASS
		VN	30	4.1	0.005795	± 2.5	PASS
		VN	40	3.99	0.005640	± 2.5	PASS
		VN	50	0.92	0.001300	± 2.5	PASS
	HCH	VN	-30	0.28	0.000392	± 2.5	PASS
		VN	-20	2.13	0.002981	± 2.5	PASS
		VN	-10	1.04	0.001456	± 2.5	PASS
		VN	0	2.3	0.003219	± 2.5	PASS
		VN	10	-0.72	-0.001008	± 2.5	PASS
		VN	20	3.76	0.005262	± 2.5	PASS
		VN	30	2.66	0.003723	± 2.5	PASS
		VN	40	-1.22	-0.001707	± 2.5	PASS
		VN	50	3.75	0.005248	± 2.5	PASS
16QAM	LCH	VN	-30	4.62	0.006595	± 2.5	PASS
		VN	-20	-1.47	-0.002099	± 2.5	PASS
		VN	-10	3.3	0.004711	± 2.5	PASS
		VN	0	4.12	0.005882	± 2.5	PASS
		VN	10	2.04	0.002912	± 2.5	PASS
		VN	20	3.38	0.004825	± 2.5	PASS
		VN	30	-1.65	-0.002355	± 2.5	PASS
		VN	40	1.86	0.002655	± 2.5	PASS
		VN	50	0.91	0.001299	± 2.5	PASS
	MCH	VN	-30	4.83	0.006827	± 2.5	PASS
		VN	-20	4.67	0.006601	± 2.5	PASS
		VN	-10	0.83	0.001173	± 2.5	PASS
		VN	0	-1.2	-0.001696	± 2.5	PASS
		VN	10	3.54	0.005004	± 2.5	PASS
		VN	20	4.17	0.005894	± 2.5	PASS
		VN	30	3.59	0.005074	± 2.5	PASS
		VN	40	1.65	0.002332	± 2.5	PASS
		VN	50	-1.34	-0.001894	± 2.5	PASS
	HCH	VN	-30	3.26	0.004563	± 2.5	PASS
		VN	-20	2.68	0.003751	± 2.5	PASS
		VN	-10	-0.04	-0.000056	± 2.5	PASS
		VN	0	4.15	0.005808	± 2.5	PASS
		VN	10	4.09	0.005724	± 2.5	PASS
		VN	20	-0.29	-0.000406	± 2.5	PASS
		VN	30	-0.16	-0.000224	± 2.5	PASS
		VN	40	1.57	0.002197	± 2.5	PASS

		VN	50	1.84	0.002575	± 2.5	PASS

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	2.84	0.004048	± 2.5	PASS
		VN	TN	-0.77	-0.001098	± 2.5	PASS
		VH	TN	1.62	0.002309	± 2.5	PASS
	MCH	VL	TN	-0.67	-0.000947	± 2.5	PASS
		VN	TN	0.93	0.001314	± 2.5	PASS
		VH	TN	3.32	0.004693	± 2.5	PASS
	HCH	VL	TN	0.38	0.000533	± 2.5	PASS
		VN	TN	3.26	0.004569	± 2.5	PASS
		VH	TN	0.77	0.001079	± 2.5	PASS
16QAM	LCH	VL	TN	-1.73	-0.002466	± 2.5	PASS
		VN	TN	-0.12	-0.000171	± 2.5	PASS
		VH	TN	1.75	0.002495	± 2.5	PASS
	MCH	VL	TN	-0.88	-0.001244	± 2.5	PASS
		VN	TN	-0.86	-0.001216	± 2.5	PASS
		VH	TN	0.33	0.000466	± 2.5	PASS
	HCH	VL	TN	-1.55	-0.002172	± 2.5	PASS
		VN	TN	0.81	0.001135	± 2.5	PASS
		VH	TN	-0.35	-0.000491	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.95	0.002780	± 2.5	PASS
		VN	-20	4.16	0.005930	± 2.5	PASS
		VN	-10	2.31	0.003293	± 2.5	PASS
		VN	0	0.94	0.001340	± 2.5	PASS
		VN	10	4.61	0.006572	± 2.5	PASS
		VN	20	1.2	0.001711	± 2.5	PASS
		VN	30	-0.57	-0.000813	± 2.5	PASS
		VN	40	-0.4	-0.000570	± 2.5	PASS
		VN	50	-0.8	-0.001140	± 2.5	PASS
	MCH	VN	-30	3.63	0.005131	± 2.5	PASS
		VN	-20	3.25	0.004594	± 2.5	PASS
		VN	-10	3.11	0.004396	± 2.5	PASS
		VN	0	-0.88	-0.001244	± 2.5	PASS

		VN	10	-0.27	-0.000382	± 2.5	PASS
		VN	20	4.22	0.005965	± 2.5	PASS
		VN	30	0.67	0.000947	± 2.5	PASS
		VN	40	-0.84	-0.001187	± 2.5	PASS
		VN	50	4.7	0.006643	± 2.5	PASS
	HCH	VN	-30	0.98	0.001374	± 2.5	PASS
		VN	-20	0.19	0.000266	± 2.5	PASS
		VN	-10	0.79	0.001107	± 2.5	PASS
		VN	0	-0.96	-0.001345	± 2.5	PASS
		VN	10	1.48	0.002074	± 2.5	PASS
		VN	20	4.29	0.006013	± 2.5	PASS
		VN	30	0.65	0.000911	± 2.5	PASS
		VN	40	1.5	0.002102	± 2.5	PASS
		VN	50	0.58	0.000813	± 2.5	PASS
	LCH	VN	-30	4.01	0.005716	± 2.5	PASS
		VN	-20	4.81	0.006857	± 2.5	PASS
		VN	-10	3.32	0.004733	± 2.5	PASS
		VN	0	4.66	0.006643	± 2.5	PASS
		VN	10	2.32	0.003307	± 2.5	PASS
		VN	20	-0.15	-0.000214	± 2.5	PASS
		VN	30	2.65	0.003778	± 2.5	PASS
		VN	40	-0.86	-0.001226	± 2.5	PASS
		VN	50	-0.15	-0.000214	± 2.5	PASS
	MCH	VN	-30	3.53	0.004989	± 2.5	PASS
		VN	-20	0.38	0.000537	± 2.5	PASS
		VN	-10	-1.32	-0.001866	± 2.5	PASS
		VN	0	0.56	0.000792	± 2.5	PASS
16QAM		VN	10	-0.49	-0.000693	± 2.5	PASS
		VN	20	-1.72	-0.002431	± 2.5	PASS
		VN	30	4.16	0.005880	± 2.5	PASS
		VN	40	2.49	0.003519	± 2.5	PASS
		VN	50	-0.9	-0.001272	± 2.5	PASS
	HCH	VN	-30	3.94	0.005522	± 2.5	PASS
		VN	-20	-1.53	-0.002144	± 2.5	PASS
		VN	-10	4.33	0.006069	± 2.5	PASS
		VN	0	2.33	0.003266	± 2.5	PASS
		VN	10	1.63	0.002285	± 2.5	PASS
		VN	20	3.85	0.005396	± 2.5	PASS
		VN	30	1.12	0.001570	± 2.5	PASS
		VN	40	4.97	0.006966	± 2.5	PASS
		VN	50	-1.26	-0.001766	± 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	-0.33	-0.000469	± 2.5	PASS
		VN	TN	0.33	0.000469	± 2.5	PASS
		VH	TN	-0.77	-0.001094	± 2.5	PASS
	MCH	VL	TN	2.48	0.003505	± 2.5	PASS
		VN	TN	2.29	0.003237	± 2.5	PASS
		VH	TN	4.85	0.006855	± 2.5	PASS
	HCH	VL	TN	1.96	0.002757	± 2.5	PASS
		VN	TN	3.43	0.004824	± 2.5	PASS
		VH	TN	2.67	0.003755	± 2.5	PASS
16QAM	LCH	VL	TN	-1.69	-0.002401	± 2.5	PASS
		VN	TN	0.3	0.000426	± 2.5	PASS
		VH	TN	-0.77	-0.001094	± 2.5	PASS
	MCH	VL	TN	4.28	0.006049	± 2.5	PASS
		VN	TN	-0.19	-0.000269	± 2.5	PASS
		VH	TN	1.96	0.002770	± 2.5	PASS
	HCH	VL	TN	-0.43	-0.000605	± 2.5	PASS
		VN	TN	-0.42	-0.000591	± 2.5	PASS
		VH	TN	2.74	0.003854	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	1.53	0.002173	± 2.5	PASS
		VN	-20	4.68	0.006648	± 2.5	PASS
		VN	-10	1.38	0.001960	± 2.5	PASS
		VN	0	1.42	0.002017	± 2.5	PASS
		VN	10	1.43	0.002031	± 2.5	PASS
		VN	20	1.73	0.002457	± 2.5	PASS
		VN	30	3.55	0.005043	± 2.5	PASS
		VN	40	-1.92	-0.002727	± 2.5	PASS
		VN	50	-0.65	-0.000923	± 2.5	PASS
	MCH	VN	-30	-0.75	-0.001060	± 2.5	PASS
		VN	-20	-1	-0.001413	± 2.5	PASS
		VN	-10	2.52	0.003562	± 2.5	PASS
		VN	0	0.24	0.000339	± 2.5	PASS
		VN	10	3.47	0.004905	± 2.5	PASS
		VN	20	0.61	0.000862	± 2.5	PASS

		VN	30	-1.52	-0.002148	± 2.5	PASS
		VN	40	-1.62	-0.002290	± 2.5	PASS
		VN	50	0.65	0.000919	± 2.5	PASS
	HCH	VN	-30	4.82	0.006779	± 2.5	PASS
		VN	-20	4.03	0.005668	± 2.5	PASS
		VN	-10	3.15	0.004430	± 2.5	PASS
		VN	0	2.6	0.003657	± 2.5	PASS
		VN	10	0.54	0.000759	± 2.5	PASS
		VN	20	1.08	0.001519	± 2.5	PASS
		VN	30	4.9	0.006892	± 2.5	PASS
		VN	40	3.03	0.004262	± 2.5	PASS
		VN	50	-0.24	-0.000338	± 2.5	PASS
QPSK	LCH	VN	-30	3.04	0.004318	± 2.5	PASS
		VN	-20	1.83	0.002599	± 2.5	PASS
		VN	-10	4.08	0.005795	± 2.5	PASS
		VN	0	1.86	0.002642	± 2.5	PASS
		VN	10	-0.53	-0.000753	± 2.5	PASS
		VN	20	-1.16	-0.001648	± 2.5	PASS
		VN	30	1.93	0.002741	± 2.5	PASS
		VN	40	-1.08	-0.001534	± 2.5	PASS
		VN	50	2.35	0.003338	± 2.5	PASS
	MCH	VN	-30	3.45	0.004876	± 2.5	PASS
		VN	-20	0.85	0.001201	± 2.5	PASS
		VN	-10	4.57	0.006459	± 2.5	PASS
		VN	0	3.18	0.004495	± 2.5	PASS
		VN	10	4.25	0.006007	± 2.5	PASS
		VN	20	4.67	0.006601	± 2.5	PASS
		VN	30	3.46	0.004890	± 2.5	PASS
		VN	40	-0.71	-0.001004	± 2.5	PASS
		VN	50	4.73	0.006686	± 2.5	PASS
	HCH	VN	-30	0.15	0.000211	± 2.5	PASS
		VN	-20	-0.89	-0.001252	± 2.5	PASS
		VN	-10	-0.02	-0.000028	± 2.5	PASS
		VN	0	1.95	0.002743	± 2.5	PASS
		VN	10	-0.5	-0.000703	± 2.5	PASS
		VN	20	0.85	0.001195	± 2.5	PASS
		VN	30	-0.8	-0.001125	± 2.5	PASS
		VN	40	-1.55	-0.002180	± 2.5	PASS
		VN	50	2.6	0.003657	± 2.5	PASS