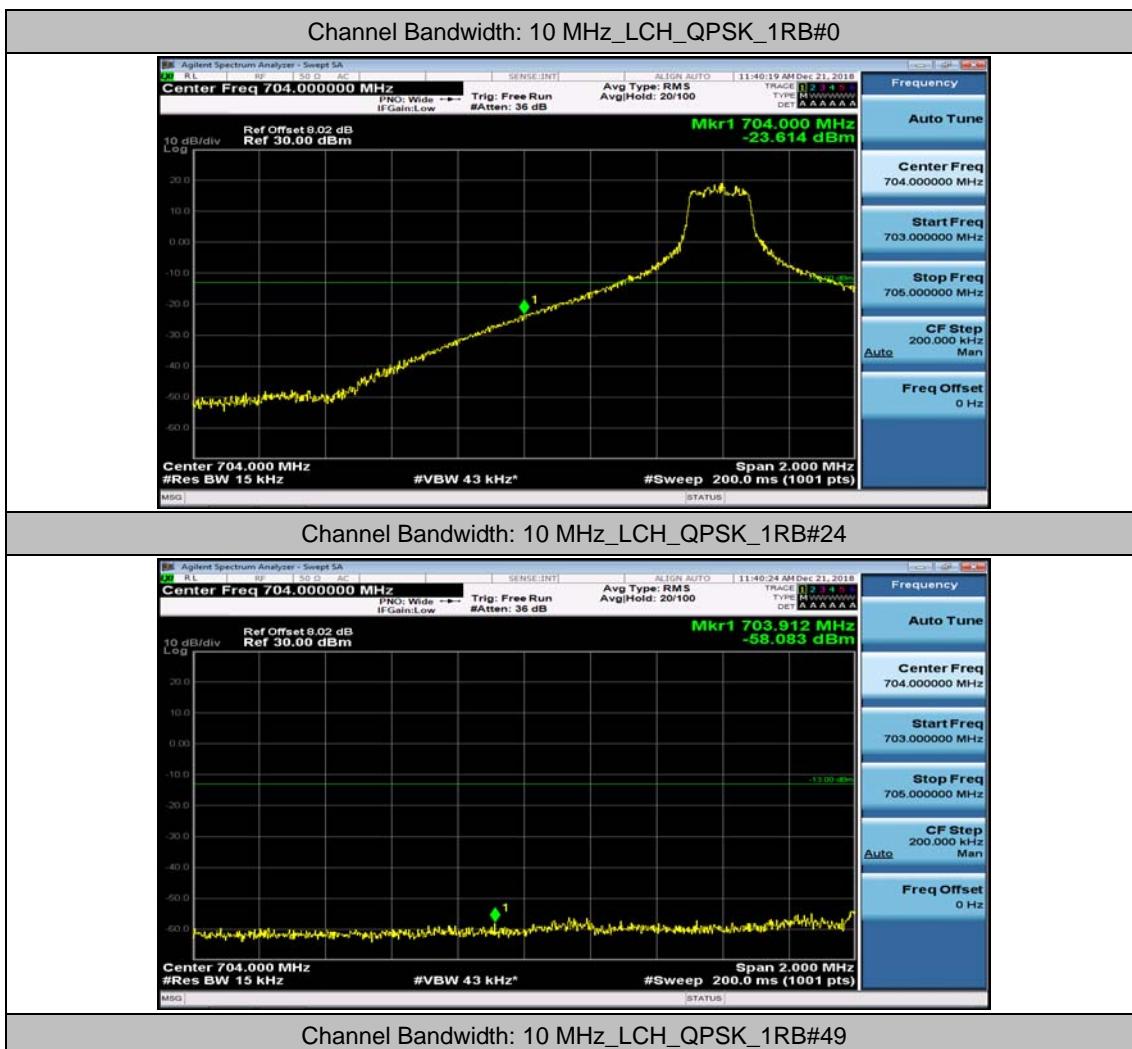
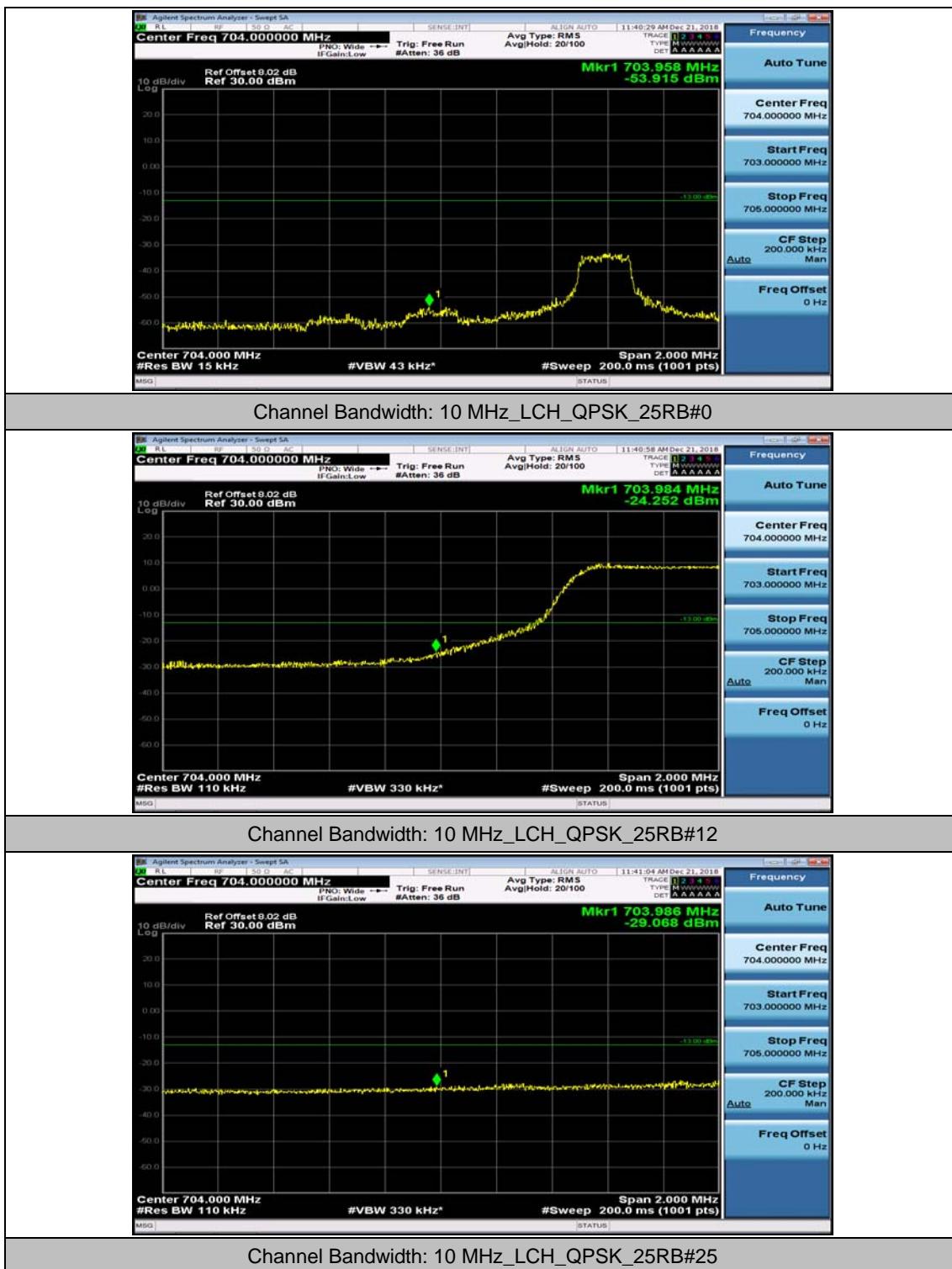


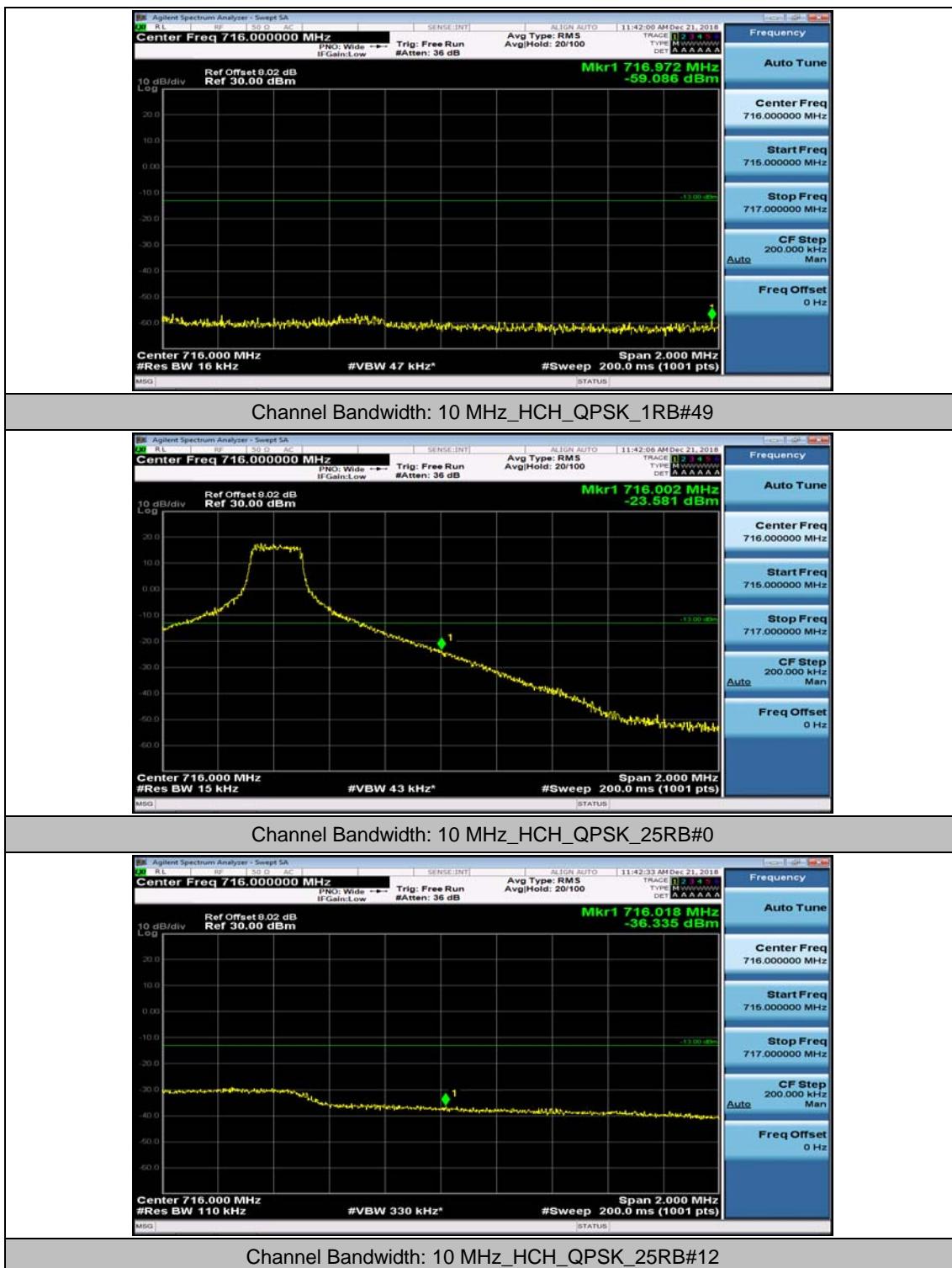


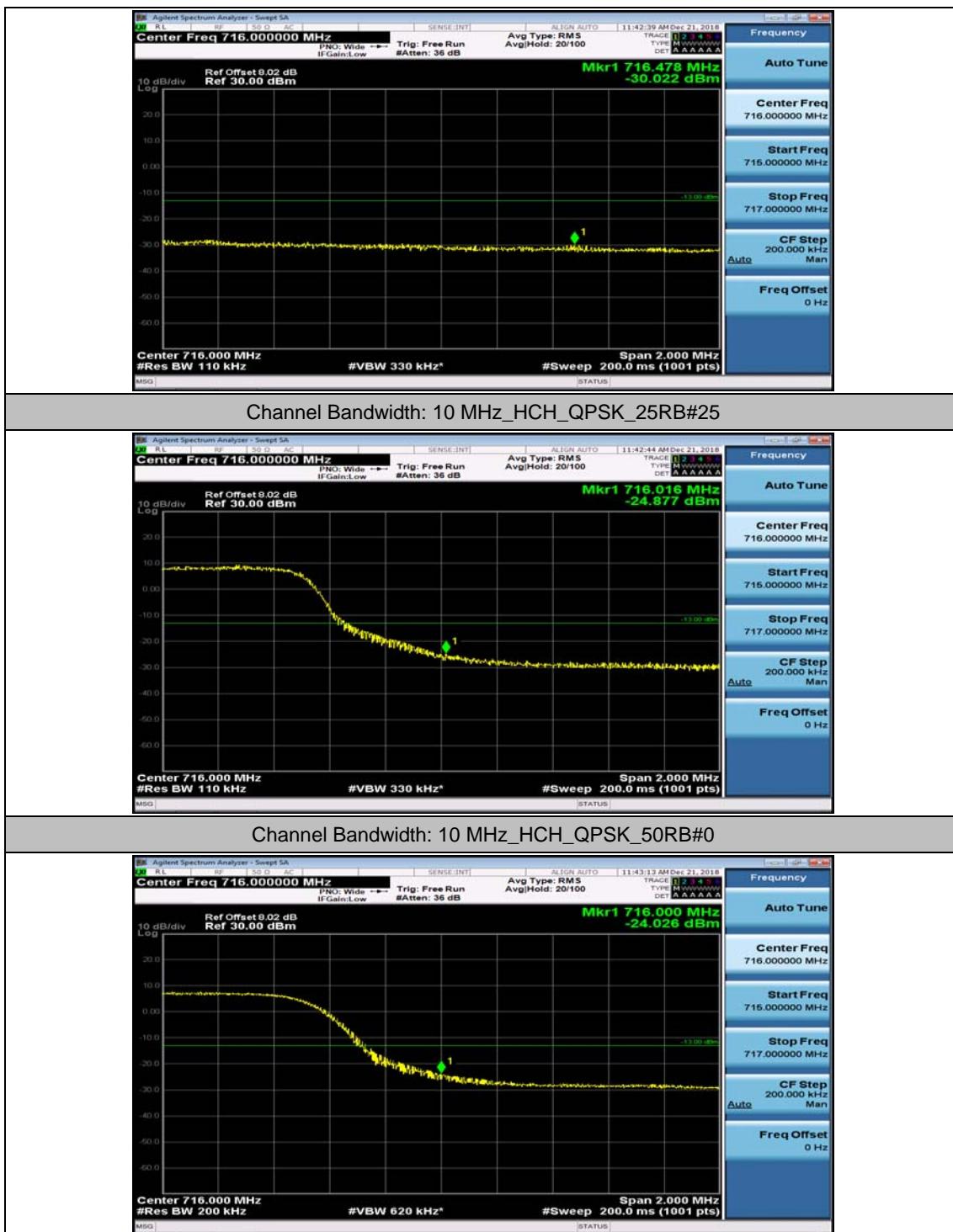
Channel Bandwidth: 10 MHz

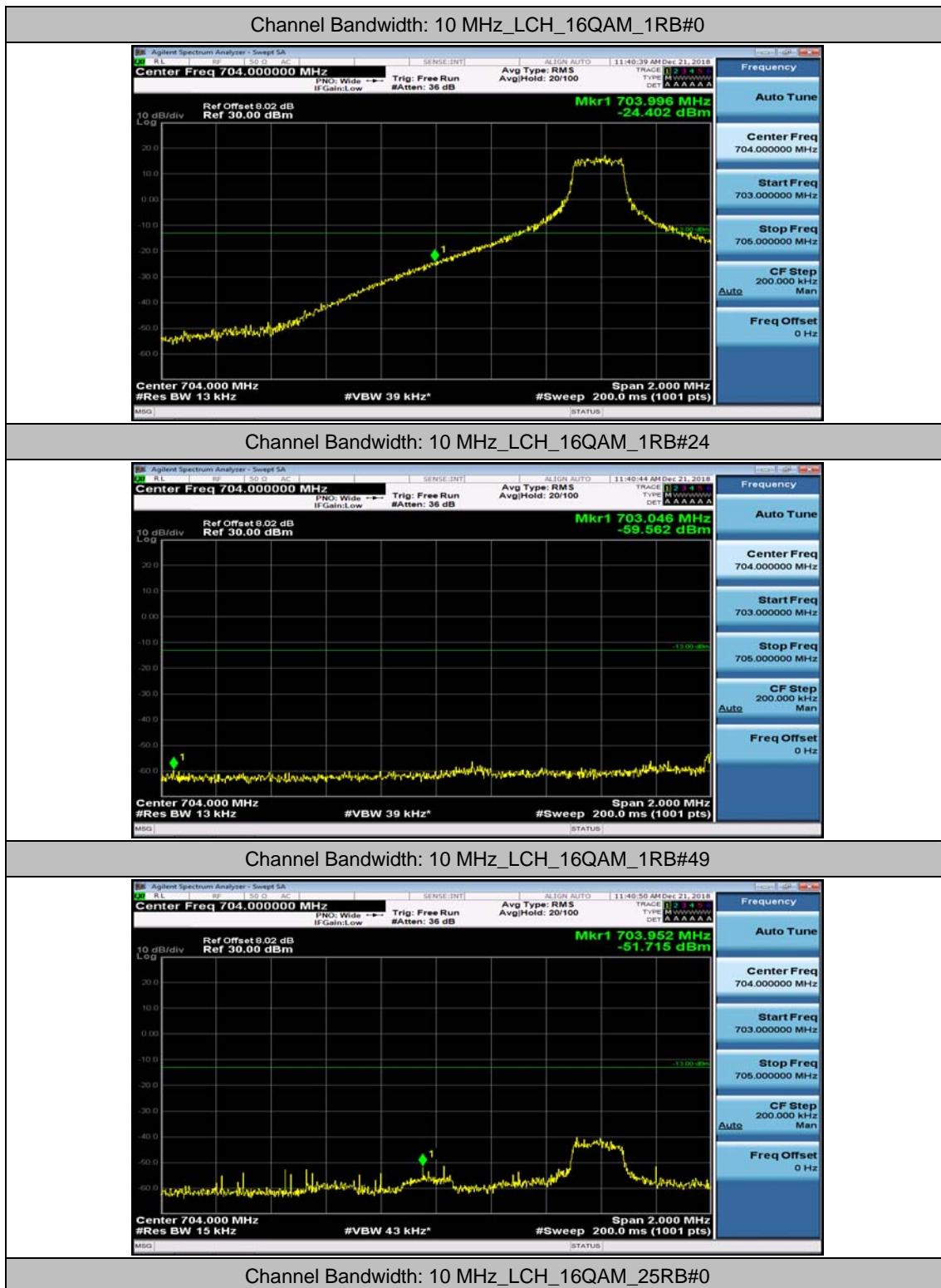


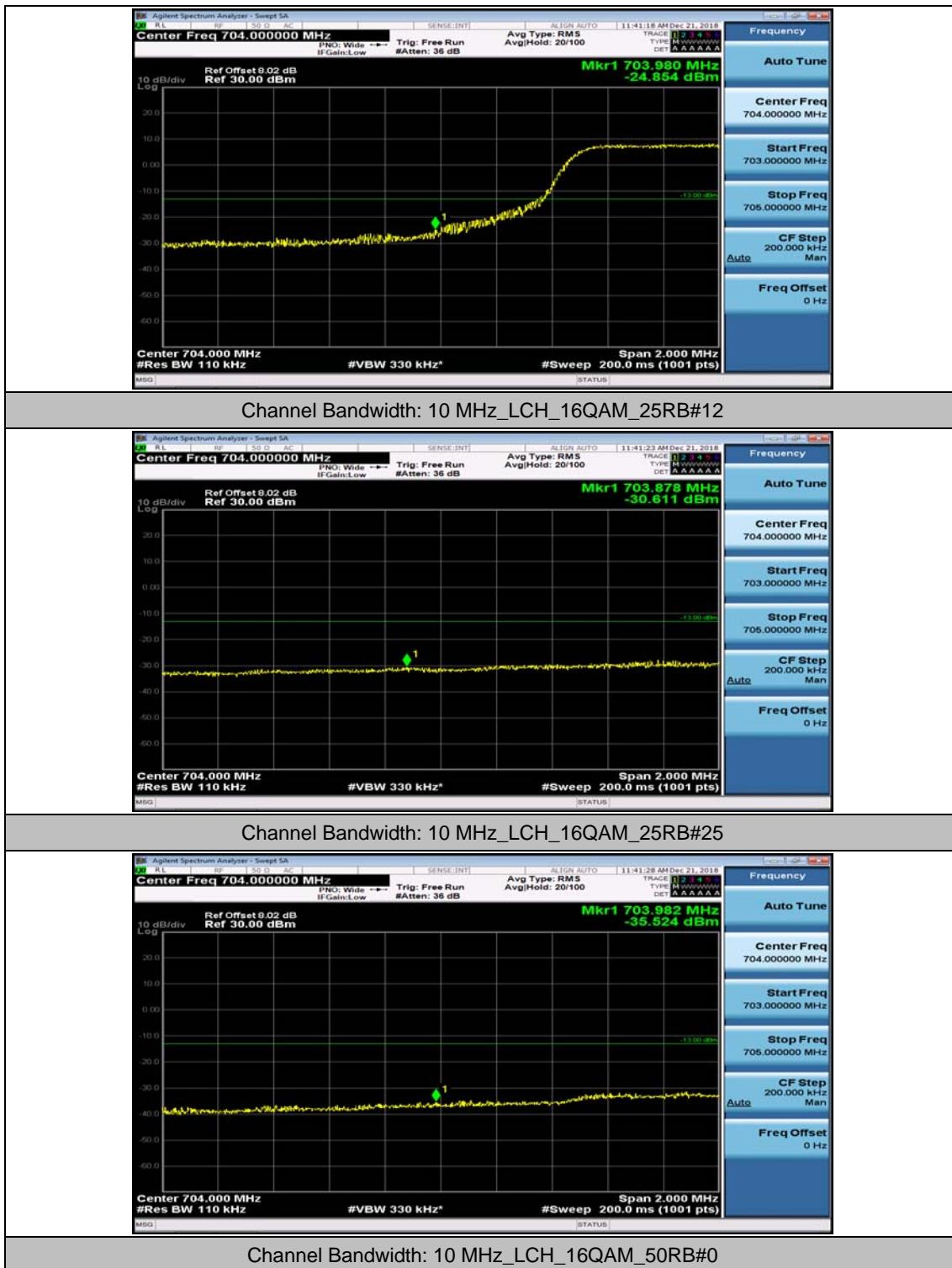


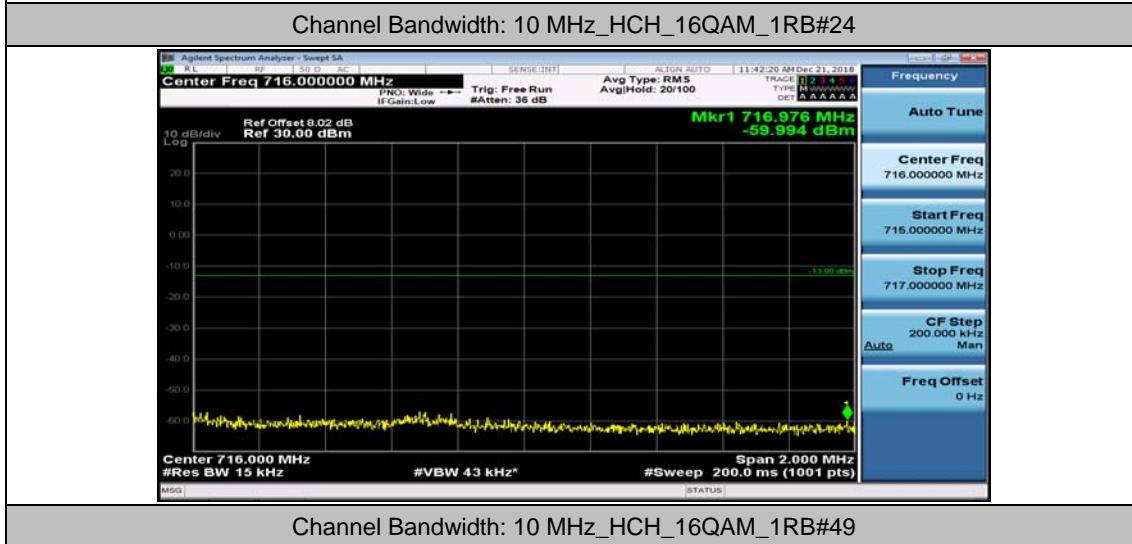
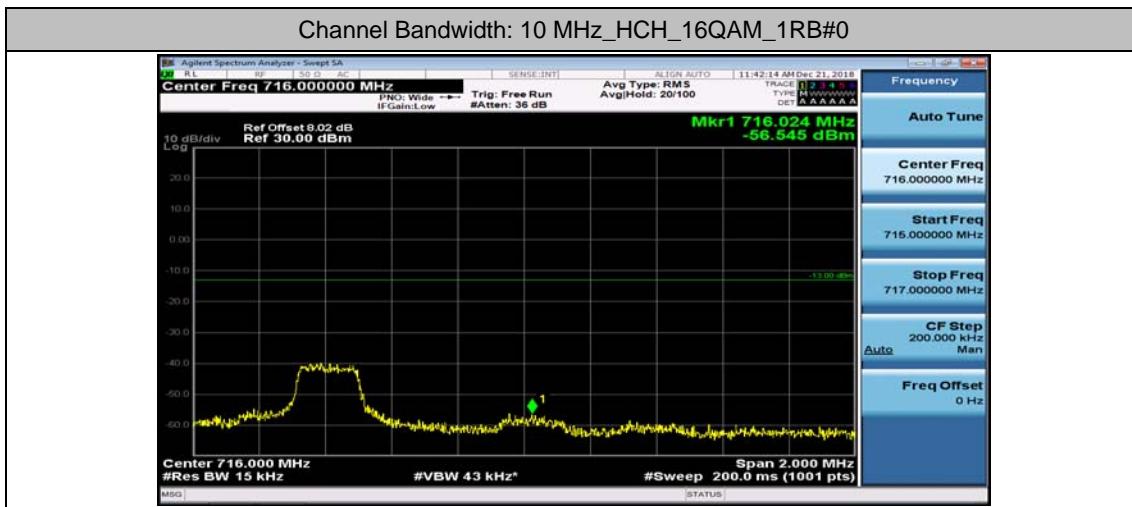




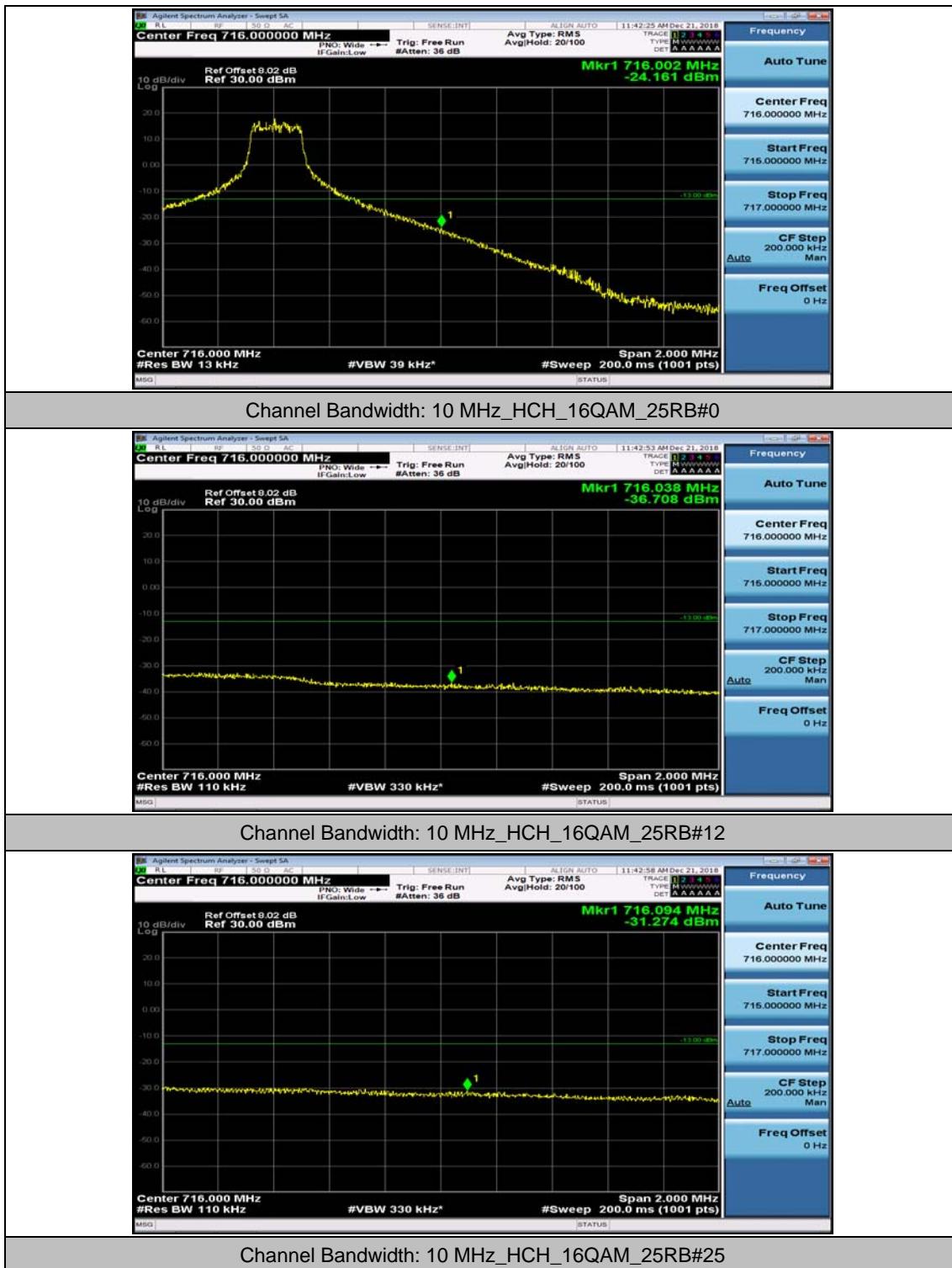


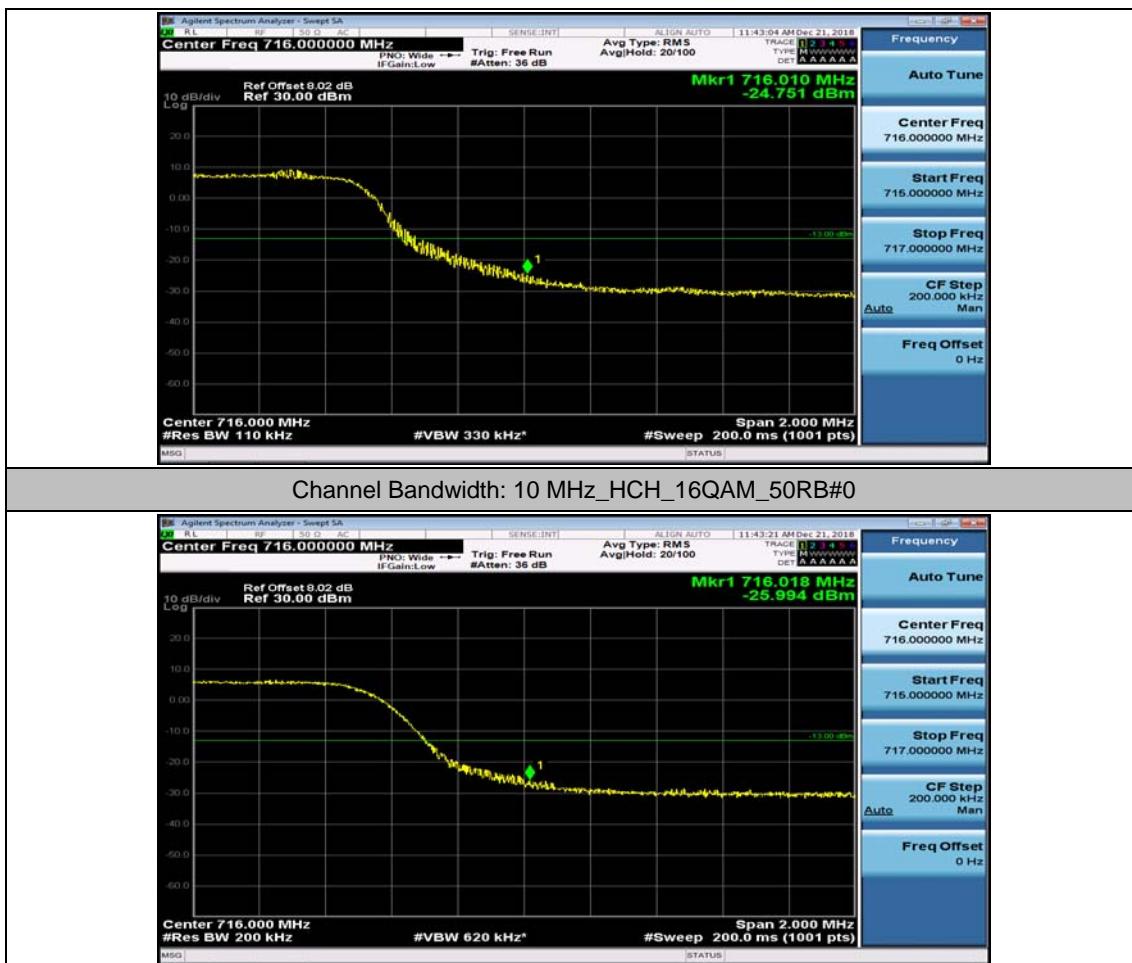






Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#49





Appendix E: Conducted Spurious Emission

Test Result

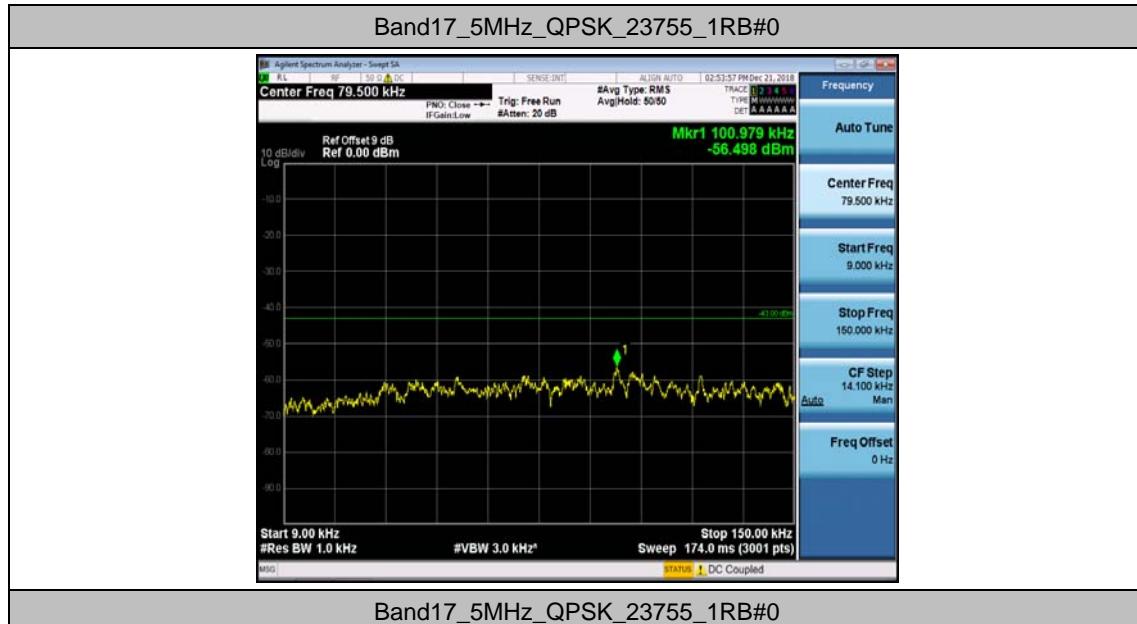
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	Range1:0.009~0.15MHz	-56.5	PASS
Band17	5MHz	QPSK	23755	1RB#0	Range2:0.15~30MHz	-54.8	PASS
Band17	5MHz	QPSK	23755	1RB#0	Range3:30~1000MHz	-51.33	PASS
Band17	5MHz	QPSK	23755	1RB#0	Range4:1000~5000MHz	-39.13	PASS
Band17	5MHz	QPSK	23755	1RB#0	Range5:5000~12000MHz	-57.07	PASS
Band17	5MHz	QPSK	23755	1RB#0	Range6:12000~18000MHz	-44.12	PASS
Band17	5MHz	QPSK	23790	1RB#0	Range1:0.009~0.15MHz	-58.12	PASS
Band17	5MHz	QPSK	23790	1RB#0	Range2:0.15~30MHz	-54.34	PASS
Band17	5MHz	QPSK	23790	1RB#0	Range3:30~1000MHz	-51.32	PASS
Band17	5MHz	QPSK	23790	1RB#0	Range4:1000~5000MHz	-40.67	PASS
Band17	5MHz	QPSK	23790	1RB#0	Range5:5000~12000MHz	-57.11	PASS
Band17	5MHz	QPSK	23790	1RB#0	Range6:12000~18000MHz	-43.92	PASS
Band17	5MHz	QPSK	23825	1RB#0	Range1:0.009~0.15MHz	-58.24	PASS
Band17	5MHz	QPSK	23825	1RB#0	Range2:0.15~30MHz	-54.01	PASS
Band17	5MHz	QPSK	23825	1RB#0	Range3:30~1000MHz	-51.72	PASS
Band17	5MHz	QPSK	23825	1RB#0	Range4:1000~5000MHz	-43.44	PASS
Band17	5MHz	QPSK	23825	1RB#0	Range5:5000~12000MHz	-57.26	PASS

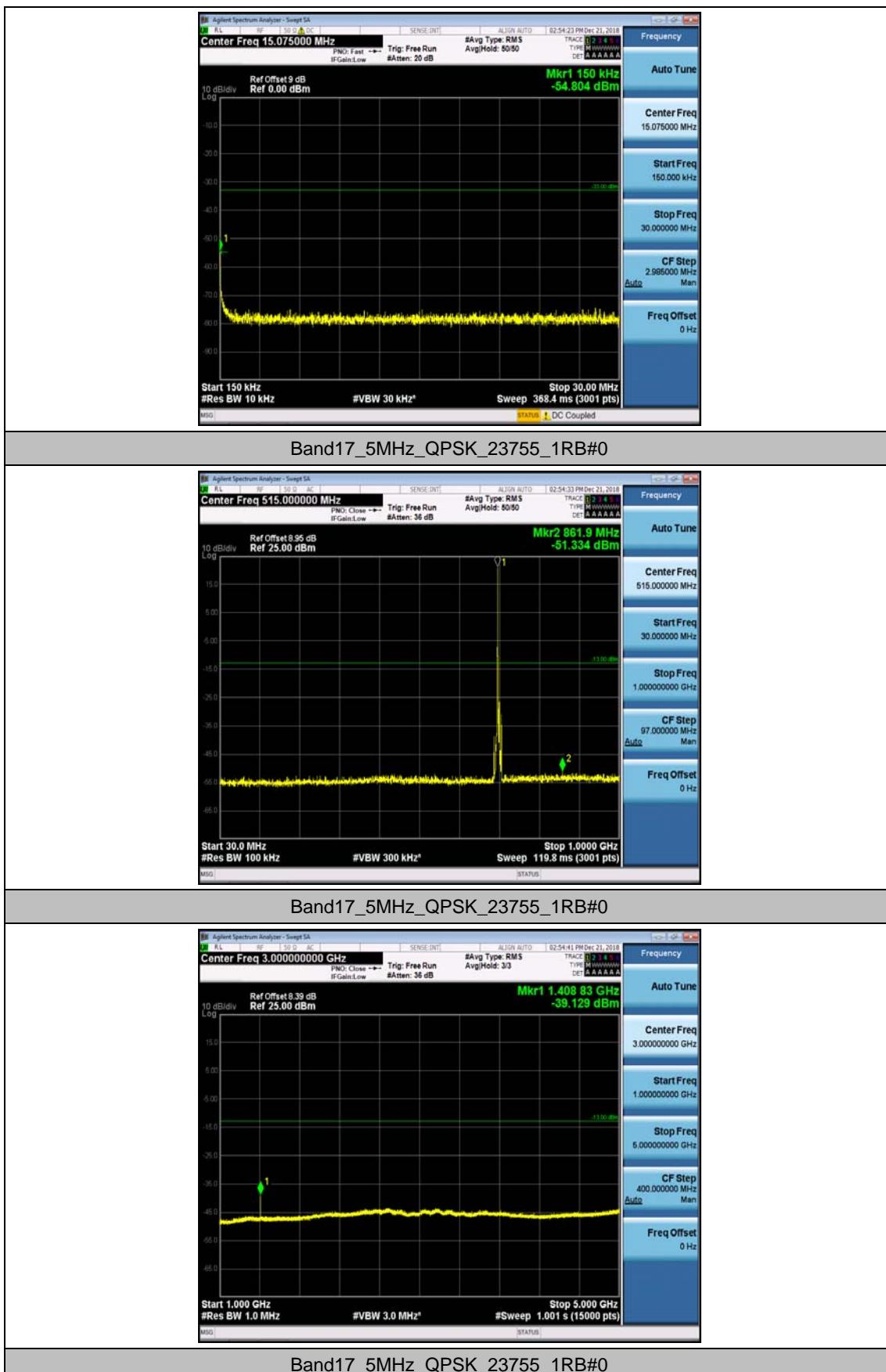
Band1 7	5MHz	QPSK	23825	1RB#0	Range6:12000~18000M Hz	-44.1 7	PASS
Band1 7	5MHz	16QAM	23755	1RB#0	Range1:0.009~0.15MHz	-58.3 8	PASS
Band1 7	5MHz	16QAM	23755	1RB#0	Range2:0.15~30MHz	-56.5 2	PASS
Band1 7	5MHz	16QAM	23755	1RB#0	Range3:30~1000MHz	-51.0 5	PASS
Band1 7	5MHz	16QAM	23755	1RB#0	Range4:1000~5000MHz	-39.9 7	PASS
Band1 7	5MHz	16QAM	23755	1RB#0	Range5:5000~12000MH z	-57.1 2	PASS
Band1 7	5MHz	16QAM	23755	1RB#0	Range6:12000~18000M Hz	-44.1 3	PASS
Band1 7	5MHz	16QAM	23790	1RB#0	Range1:0.009~0.15MHz	-58.5 9	PASS
Band1 7	5MHz	16QAM	23790	1RB#0	Range2:0.15~30MHz	-56.9 9	PASS
Band1 7	5MHz	16QAM	23790	1RB#0	Range3:30~1000MHz	-51.1 6	PASS
Band1 7	5MHz	16QAM	23790	1RB#0	Range4:1000~5000MHz	-41.3 8	PASS
Band1 7	5MHz	16QAM	23790	1RB#0	Range5:5000~12000MH z	-57.0 5	PASS
Band1 7	5MHz	16QAM	23790	1RB#0	Range6:12000~18000M Hz	-44.0 6	PASS
Band1 7	5MHz	16QAM	23825	1RB#0	Range1:0.009~0.15MHz	-58.5 5	PASS
Band1 7	5MHz	16QAM	23825	1RB#0	Range2:0.15~30MHz	-57.6 4	PASS
Band1 7	5MHz	16QAM	23825	1RB#0	Range3:30~1000MHz	-51.0 8	PASS
Band1 7	5MHz	16QAM	23825	1RB#0	Range4:1000~5000MHz	-43.4 5	PASS
Band1 7	5MHz	16QAM	23825	1RB#0	Range5:5000~12000MH z	-57.3	PASS
Band1 7	5MHz	16QAM	23825	1RB#0	Range6:12000~18000M Hz	-43.9 9	PASS
Band1 7	10MHz	QPSK	23780	1RB#0	Range1:0.009~0.15MHz	-55.7 7	PASS
Band1 7	10MHz	QPSK	23780	1RB#0	Range2:0.15~30MHz	-55.4 7	PASS
Band1 7	10MHz	QPSK	23780	1RB#0	Range3:30~1000MHz	-51.1 9	PASS

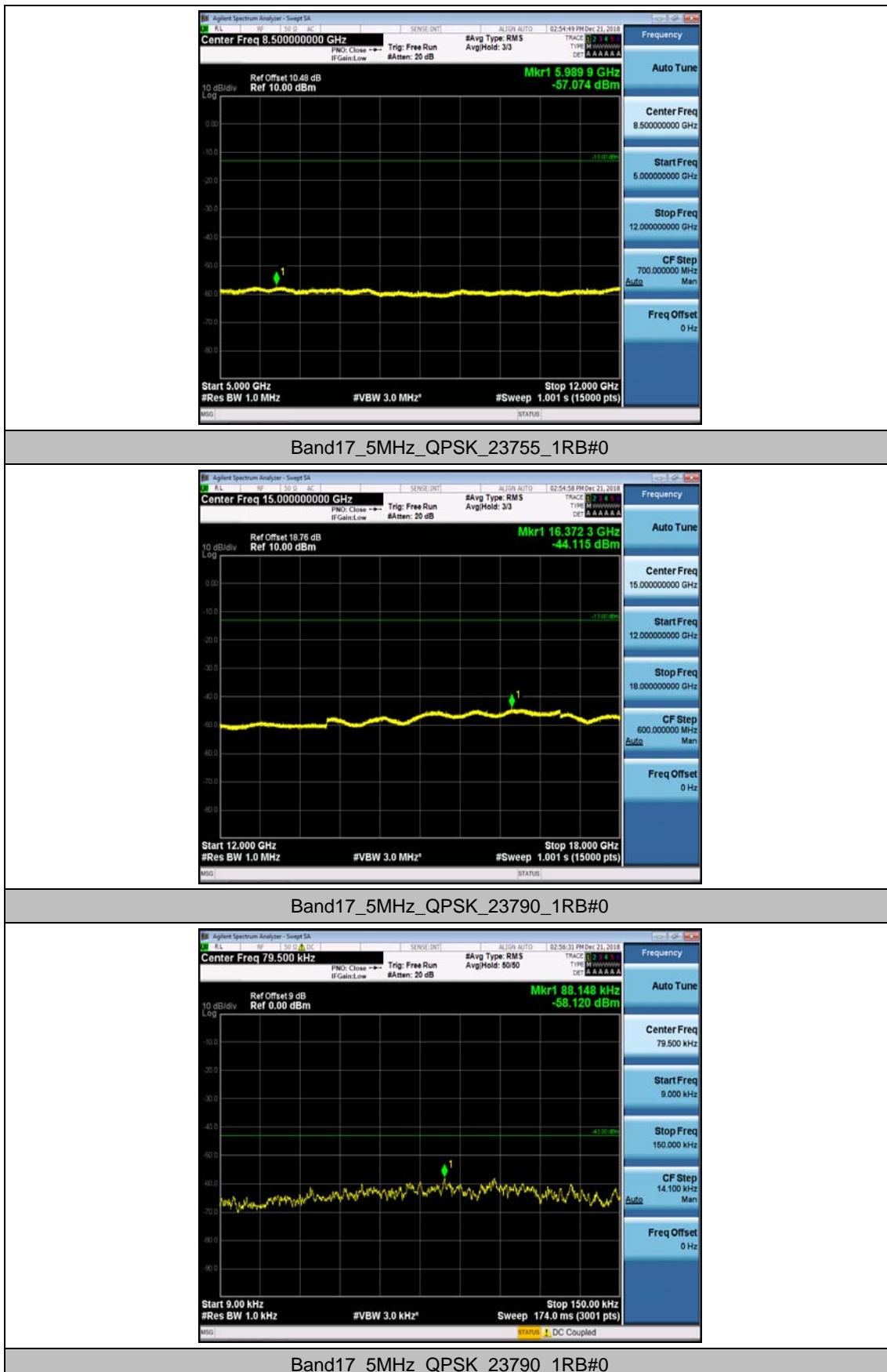
Band1 7	10MHz	QPSK	23780	1RB#0	Range4:1000~5000MHz	-38.8	PASS
Band1 7	10MHz	QPSK	23780	1RB#0	Range5:5000~12000MHz	-57.2	PASS
Band1 7	10MHz	QPSK	23780	1RB#0	Range6:12000~18000MHz	-44	PASS
Band1 7	10MHz	QPSK	23790	1RB#0	Range1:0.009~0.15MHz	-57.8 4	PASS
Band1 7	10MHz	QPSK	23790	1RB#0	Range2:0.15~30MHz	-56.2 2	PASS
Band1 7	10MHz	QPSK	23790	1RB#0	Range3:30~1000MHz	-50.8 5	PASS
Band1 7	10MHz	QPSK	23790	1RB#0	Range4:1000~5000MHz	-38.4 8	PASS
Band1 7	10MHz	QPSK	23790	1RB#0	Range5:5000~12000MHz	-57.1 6	PASS
Band1 7	10MHz	QPSK	23790	1RB#0	Range6:12000~18000MHz	-44.2 4	PASS
Band1 7	10MHz	QPSK	23800	1RB#0	Range1:0.009~0.15MHz	-57.9 1	PASS
Band1 7	10MHz	QPSK	23800	1RB#0	Range2:0.15~30MHz	-56.1 2	PASS
Band1 7	10MHz	QPSK	23800	1RB#0	Range3:30~1000MHz	-51.3 6	PASS
Band1 7	10MHz	QPSK	23800	1RB#0	Range4:1000~5000MHz	-39.4 9	PASS
Band1 7	10MHz	QPSK	23800	1RB#0	Range5:5000~12000MHz	-57.2 3	PASS
Band1 7	10MHz	QPSK	23800	1RB#0	Range6:12000~18000MHz	-44.1 8	PASS
Band1 7	10MHz	16QAM	23780	1RB#0	Range1:0.009~0.15MHz	-57.9	PASS
Band1 7	10MHz	16QAM	23780	1RB#0	Range2:0.15~30MHz	-53.8 4	PASS
Band1 7	10MHz	16QAM	23780	1RB#0	Range3:30~1000MHz	-51.0 2	PASS
Band1 7	10MHz	16QAM	23780	1RB#0	Range4:1000~5000MHz	-39.0 1	PASS
Band1 7	10MHz	16QAM	23780	1RB#0	Range5:5000~12000MHz	-57.0 7	PASS
Band1 7	10MHz	16QAM	23780	1RB#0	Range6:12000~18000MHz	-43.9 2	PASS
Band1 7	10MHz	16QAM	23790	1RB#0	Range1:0.009~0.15MHz	-58.3 9	PASS

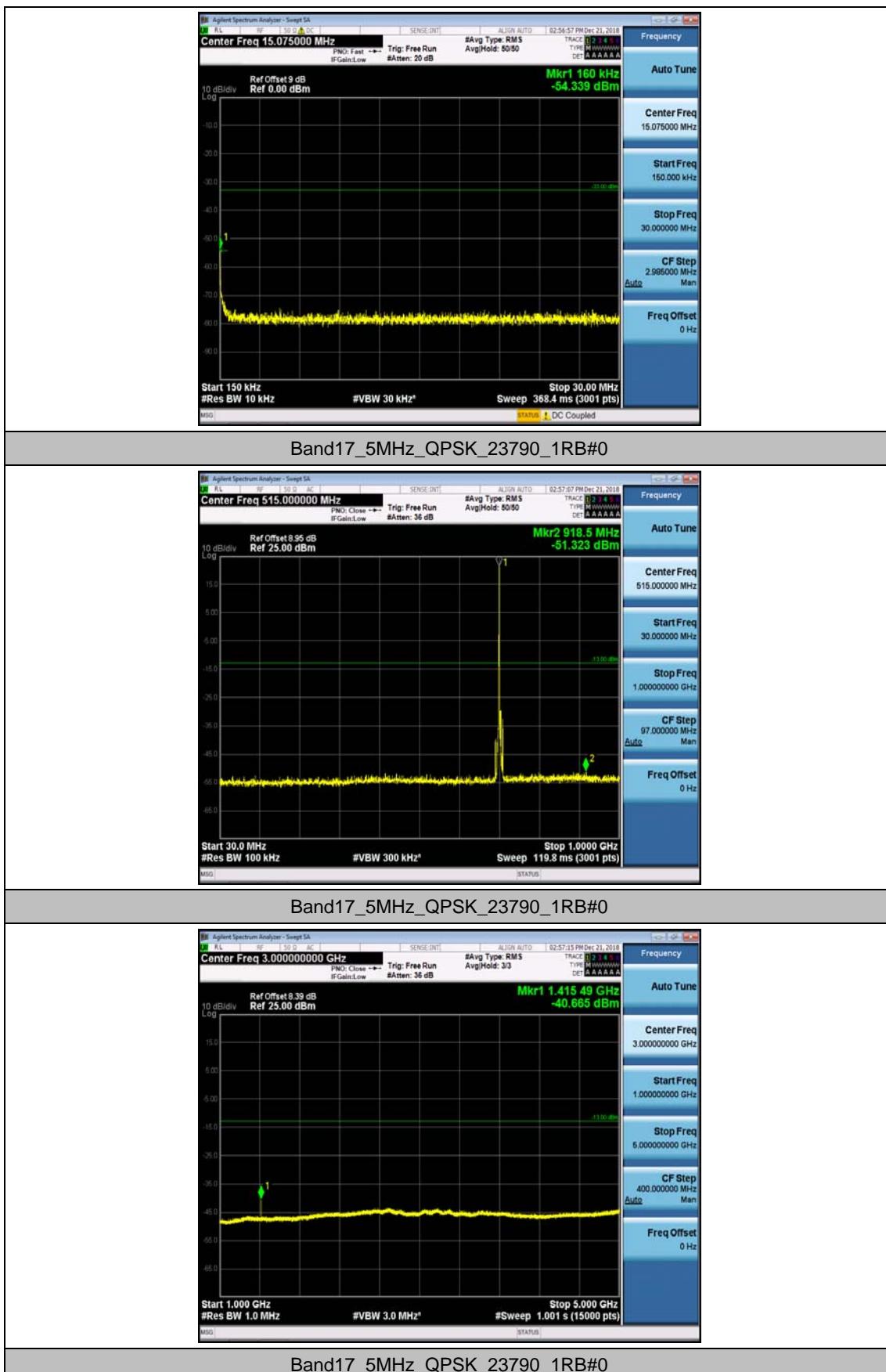
Band1 7	10MHz	16QAM	23790	1RB#0	Range2:0.15~30MHz	-56.7 2	PASS
Band1 7	10MHz	16QAM	23790	1RB#0	Range3:30~1000MHz	-51.5	PASS
Band1 7	10MHz	16QAM	23790	1RB#0	Range4:1000~5000MHz	-39.0 2	PASS
Band1 7	10MHz	16QAM	23790	1RB#0	Range5:5000~12000MH z	-57.1 2	PASS
Band1 7	10MHz	16QAM	23790	1RB#0	Range6:12000~18000M Hz	-44.1 8	PASS
Band1 7	10MHz	16QAM	23800	1RB#0	Range1:0.009~0.15MHz	-58.4 1	PASS
Band1 7	10MHz	16QAM	23800	1RB#0	Range2:0.15~30MHz	-56.2 8	PASS
Band1 7	10MHz	16QAM	23800	1RB#0	Range3:30~1000MHz	-50.6 9	PASS
Band1 7	10MHz	16QAM	23800	1RB#0	Range4:1000~5000MHz	-39.3 3	PASS
Band1 7	10MHz	16QAM	23800	1RB#0	Range5:5000~12000MH z	-57.0 8	PASS
Band1 7	10MHz	16QAM	23800	1RB#0	Range6:12000~18000M Hz	-44.0 4	PASS

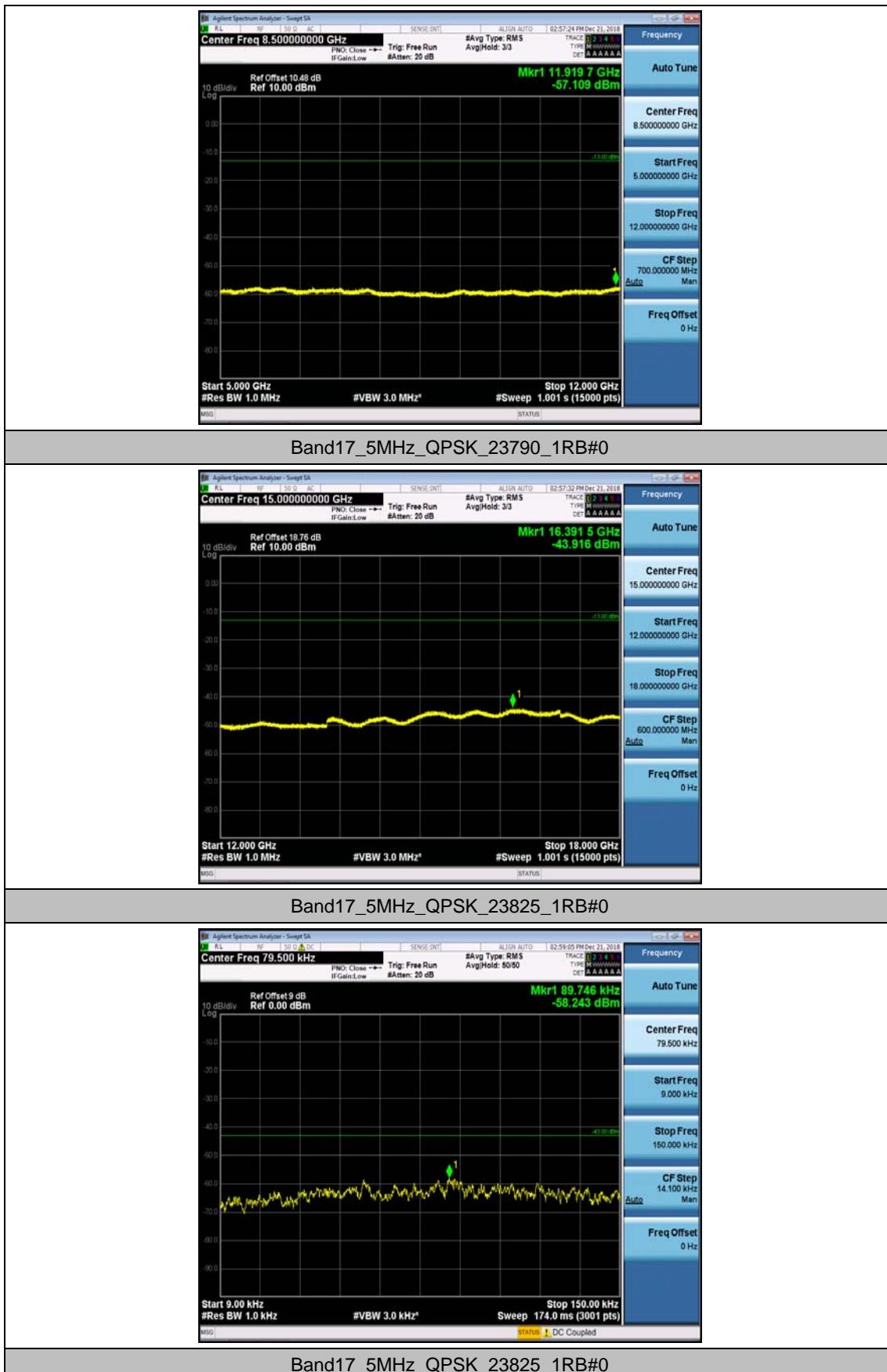
Test Graphs

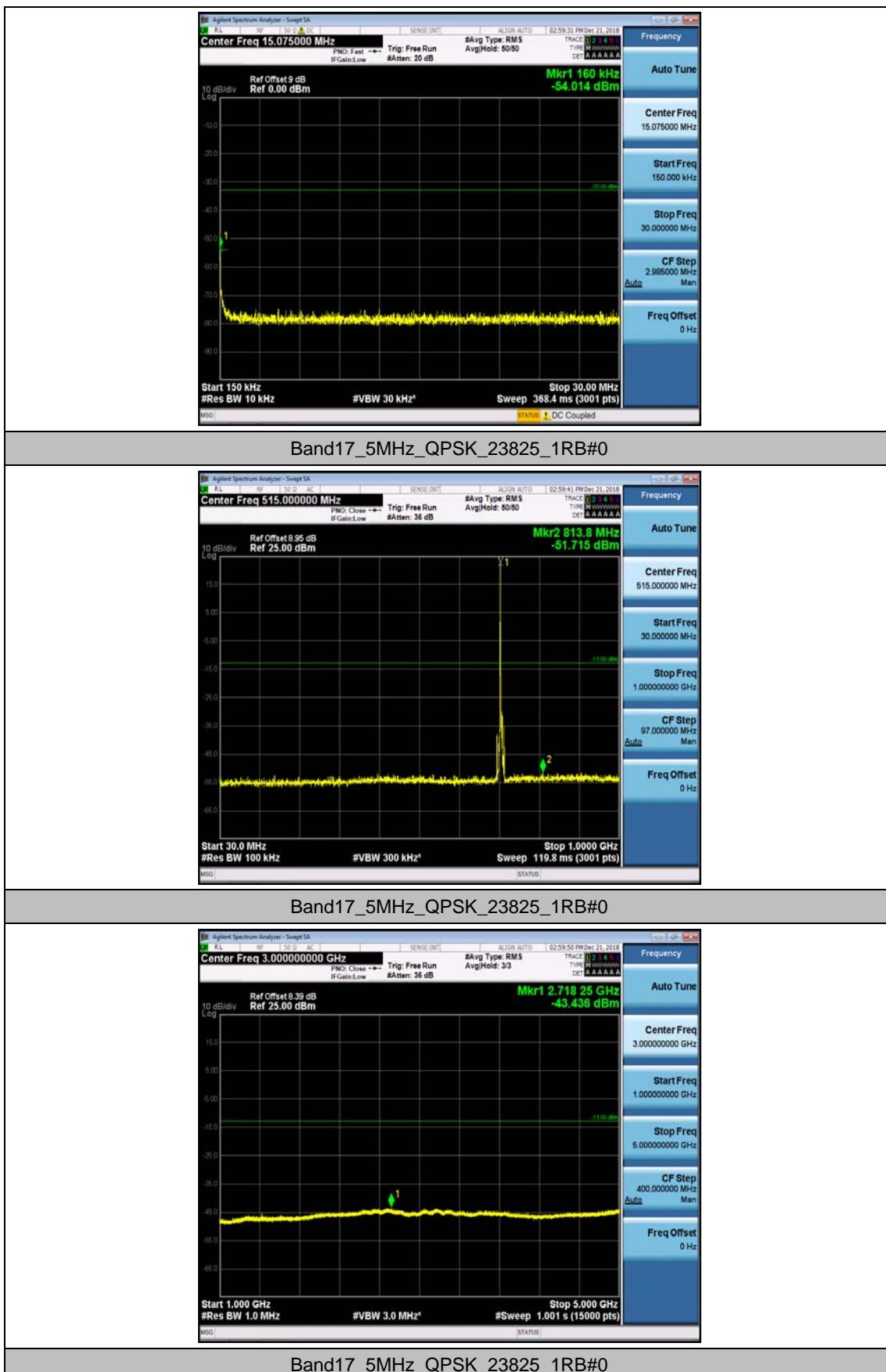


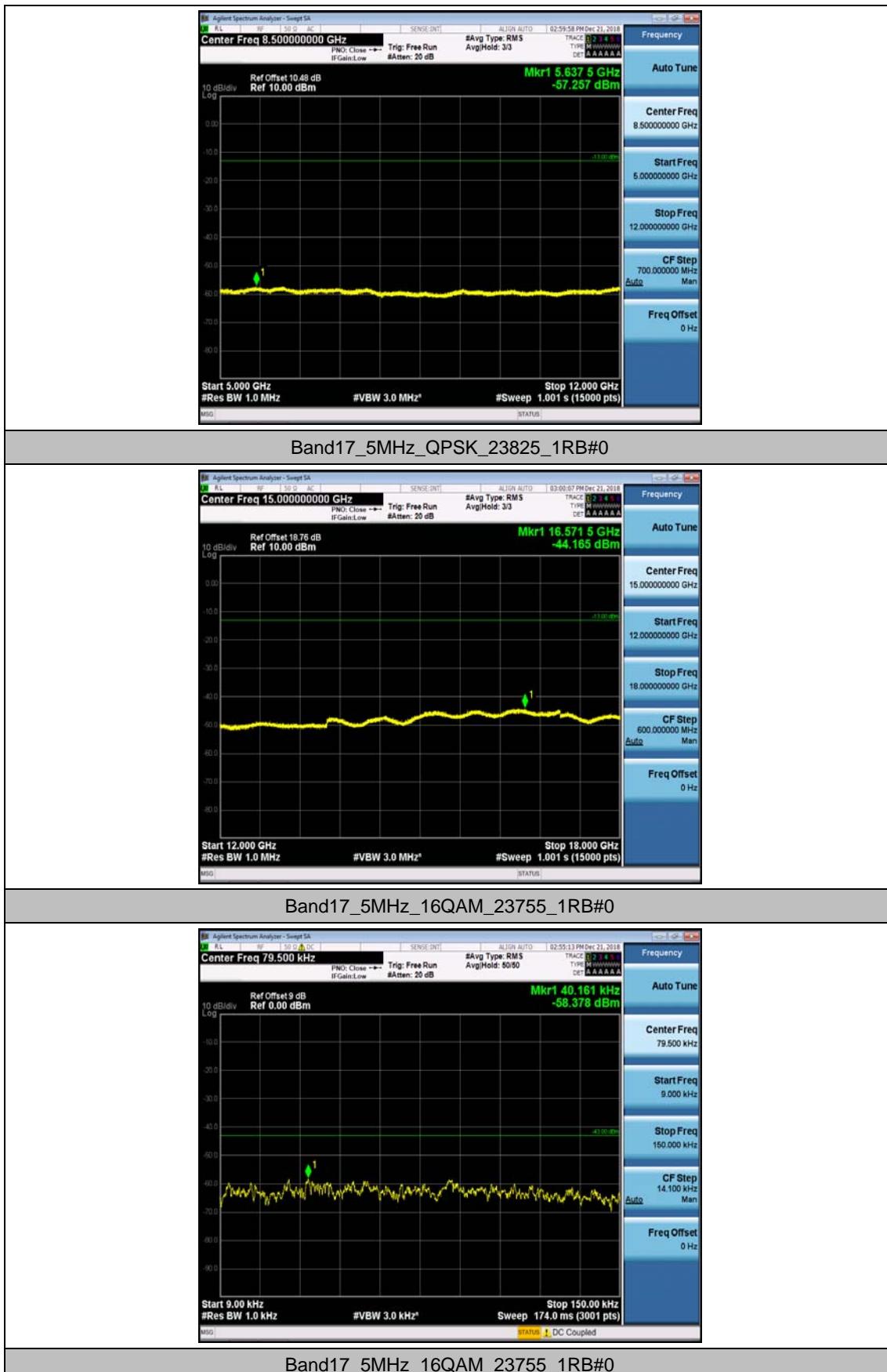


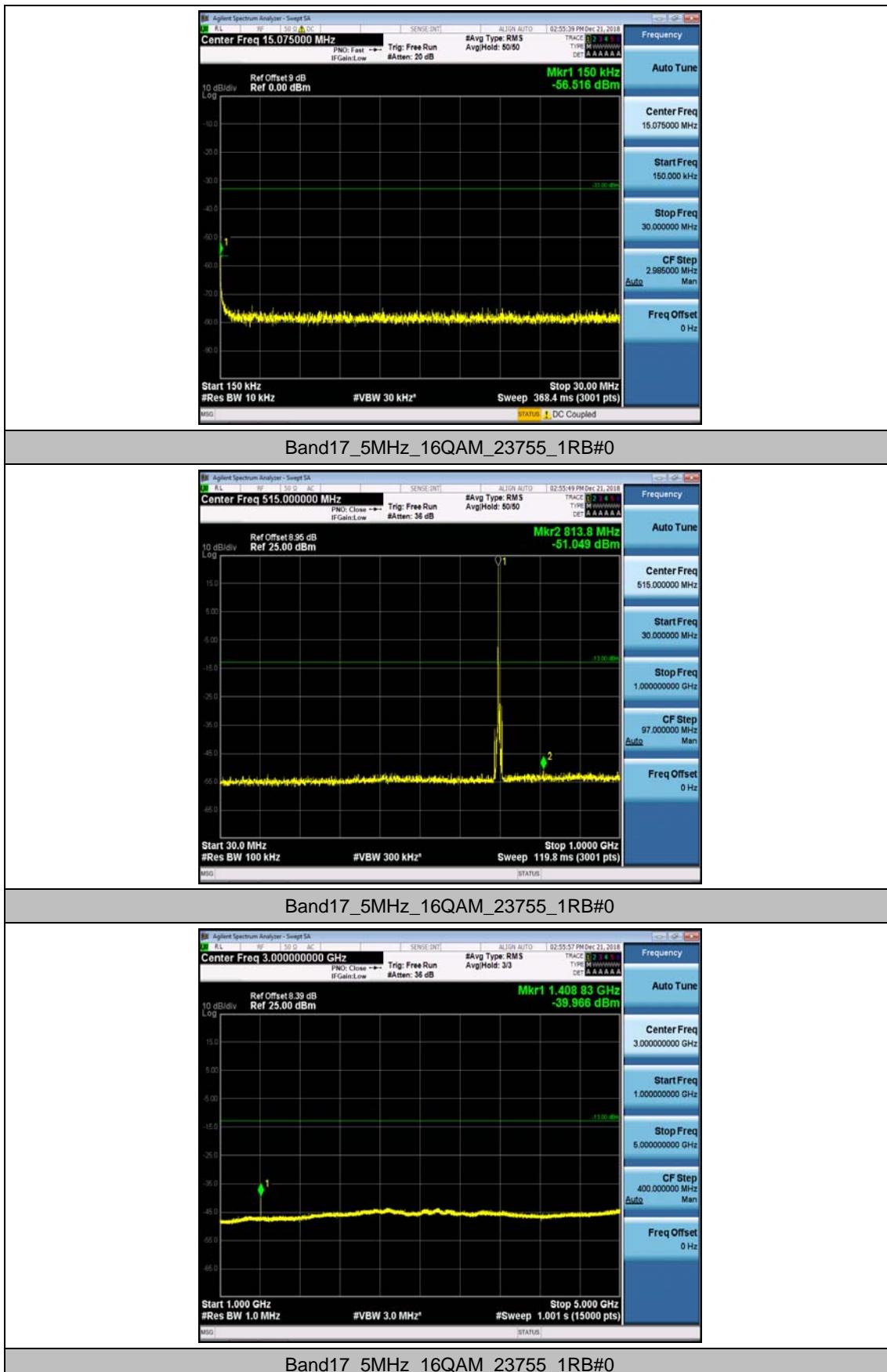


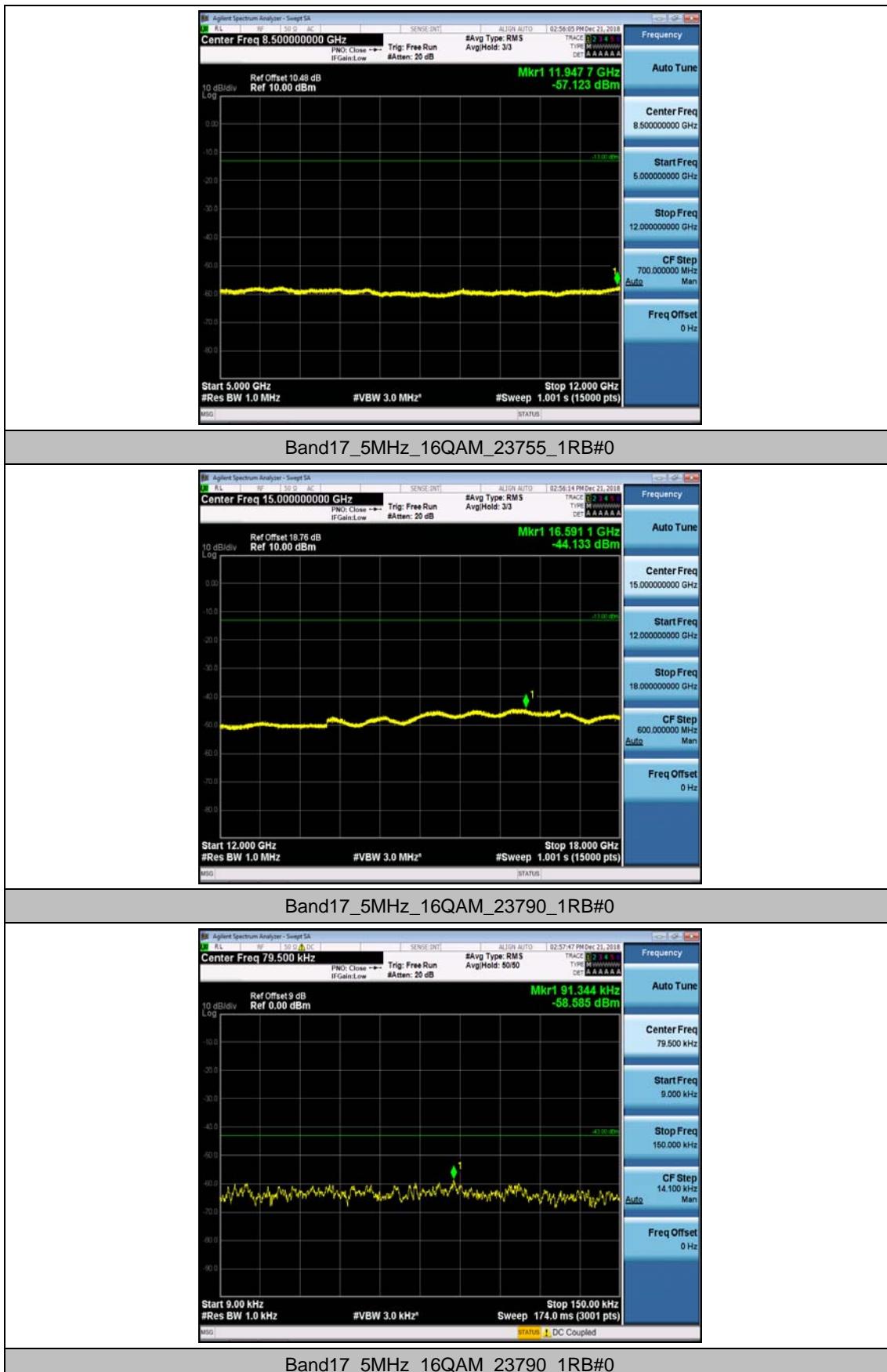


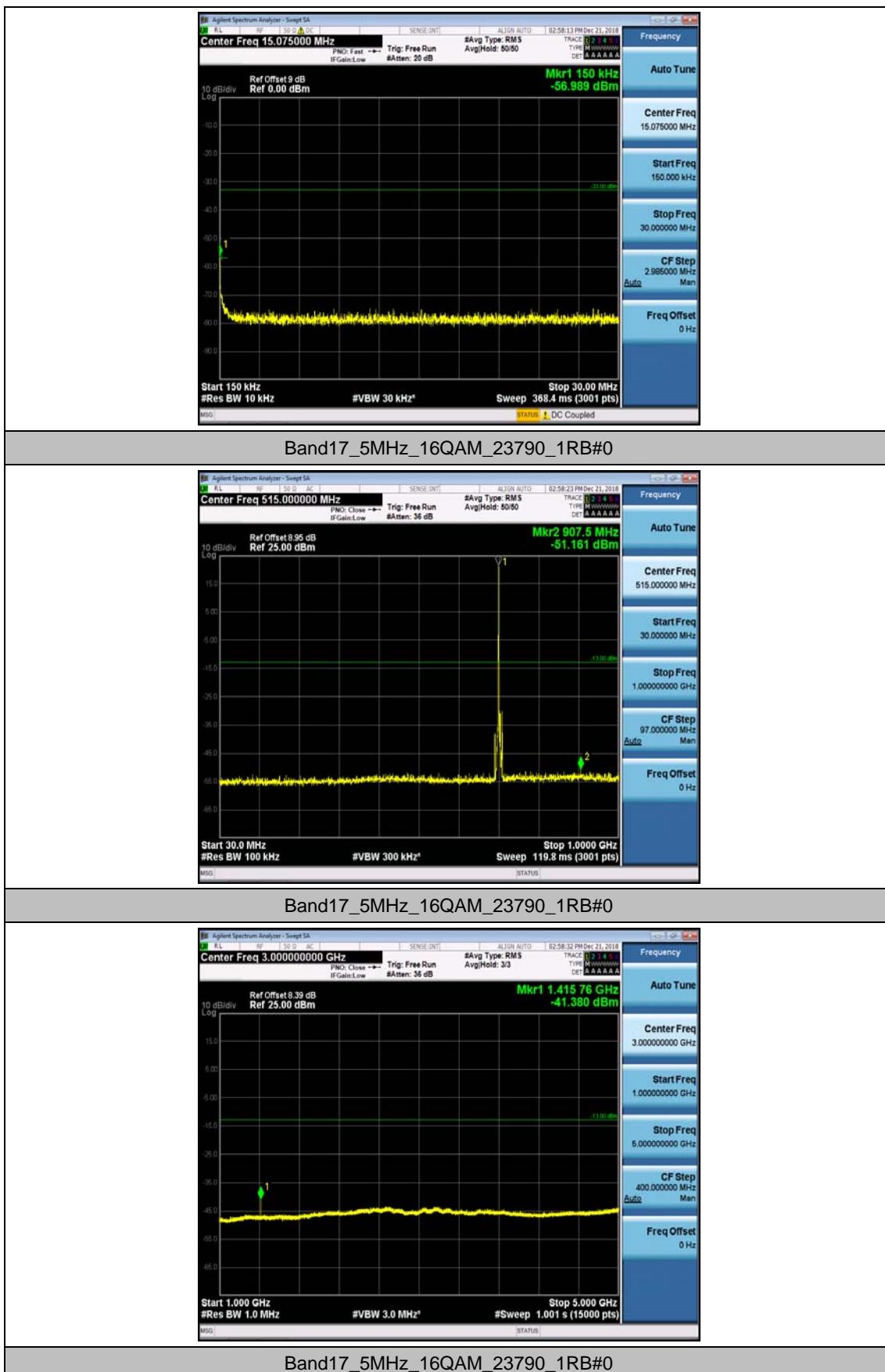


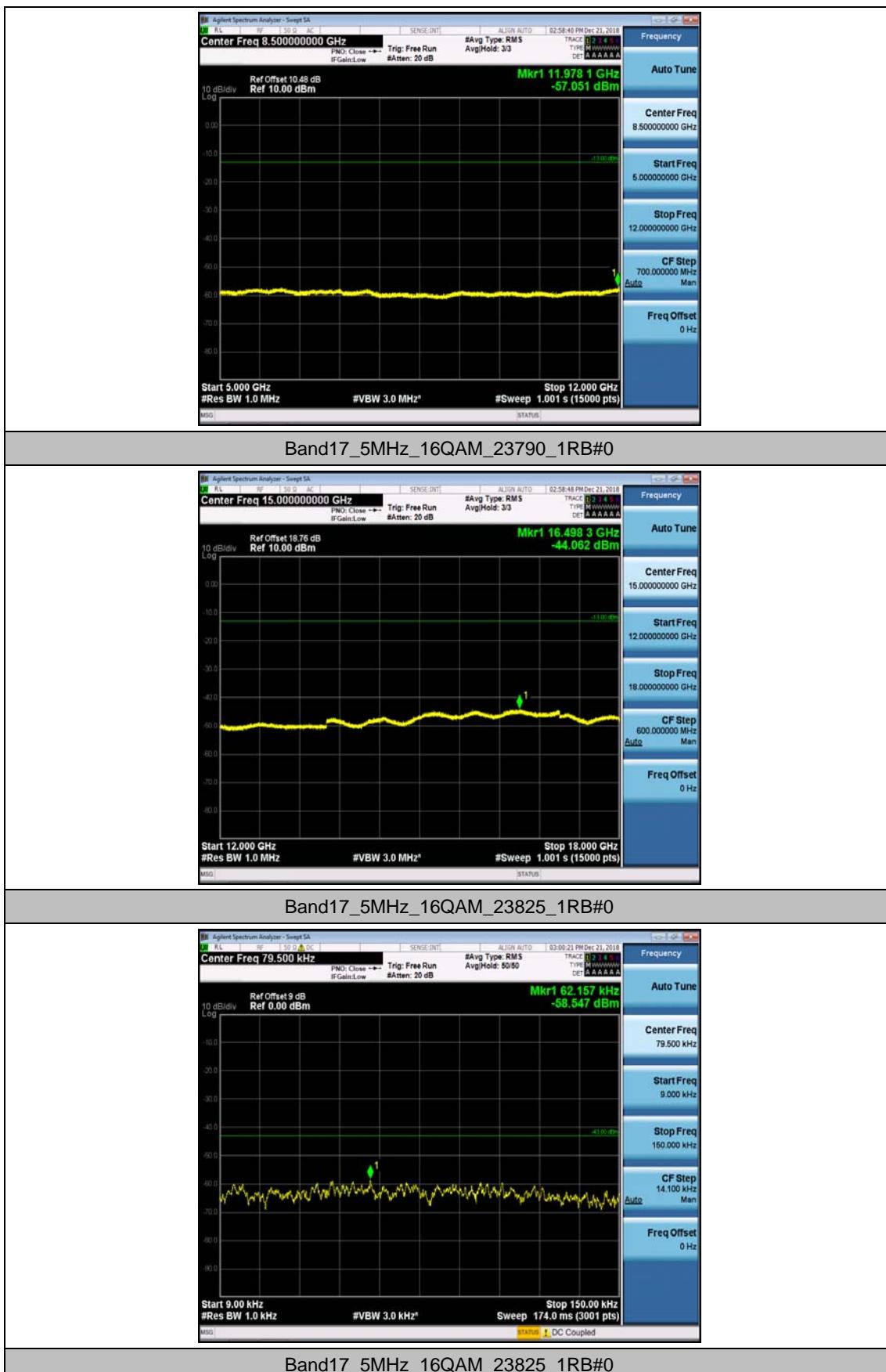


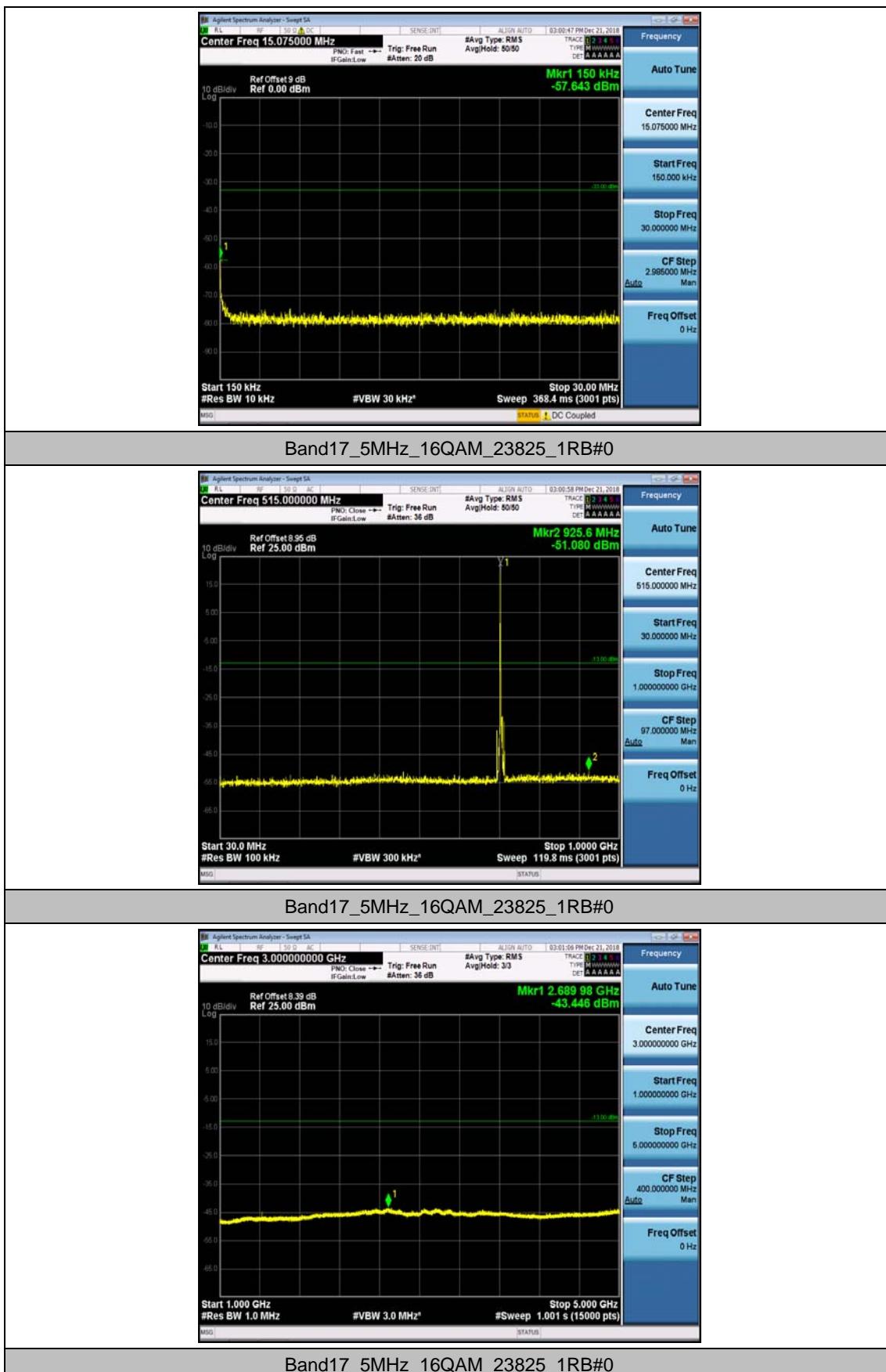


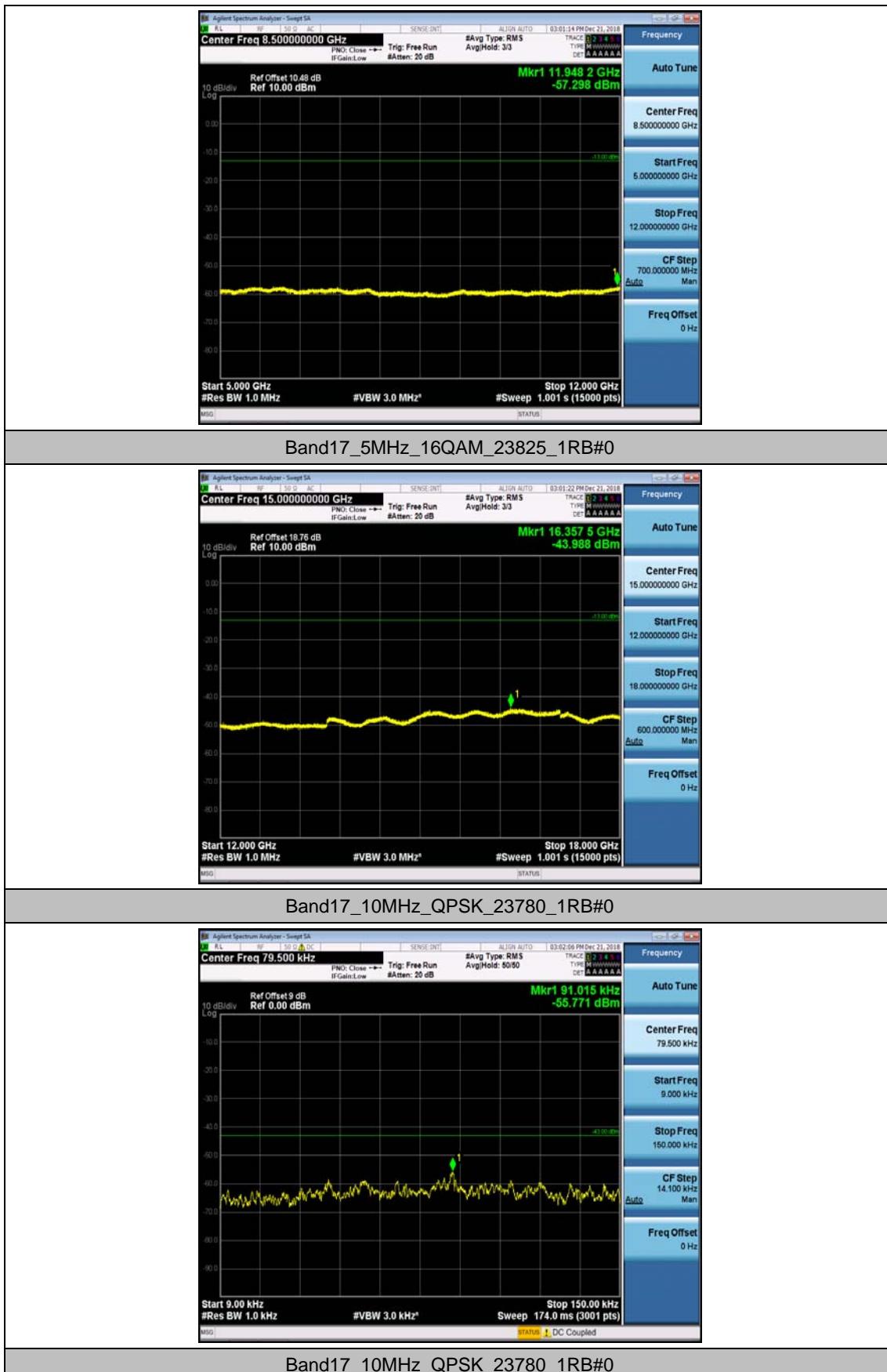


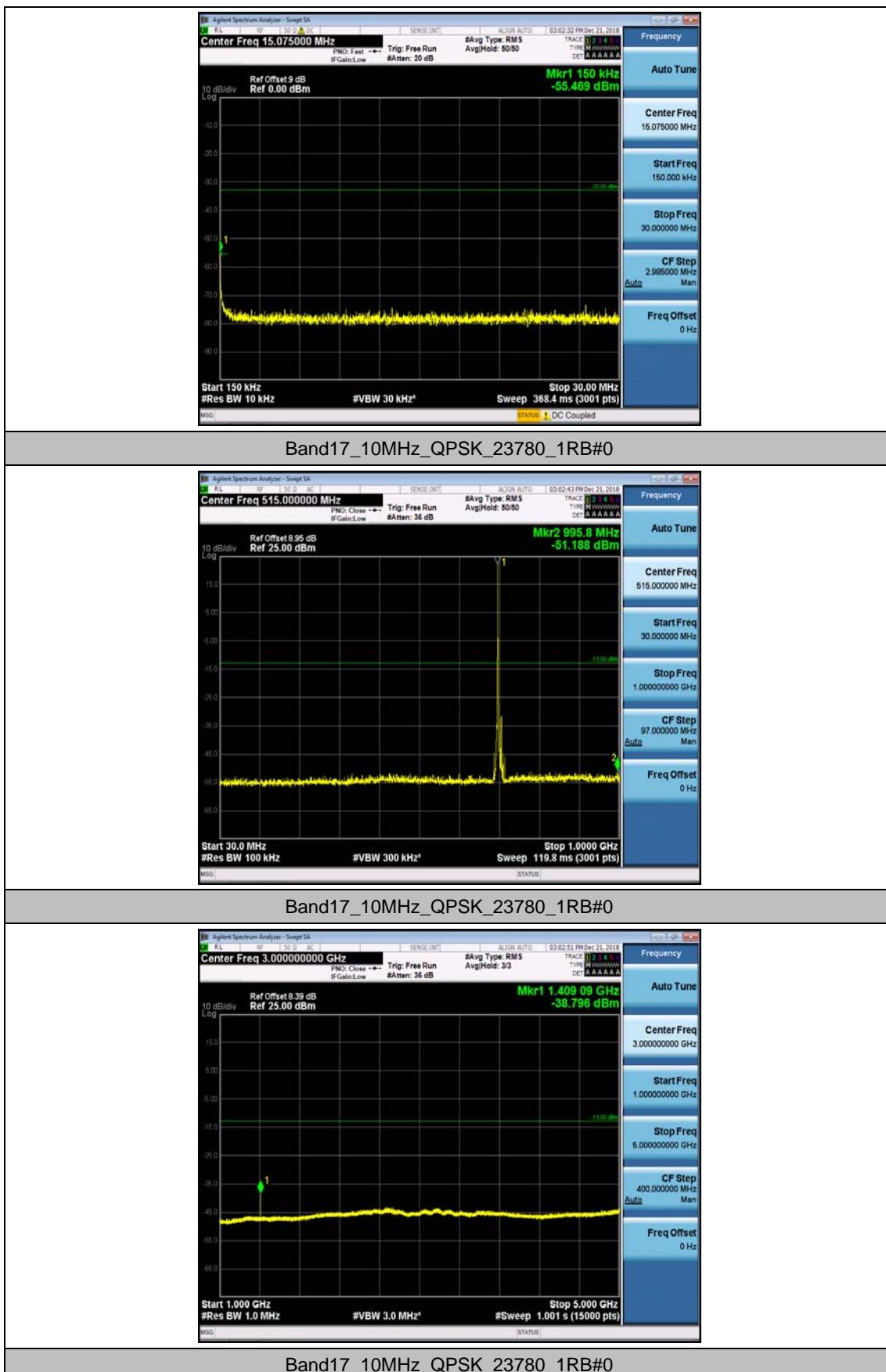


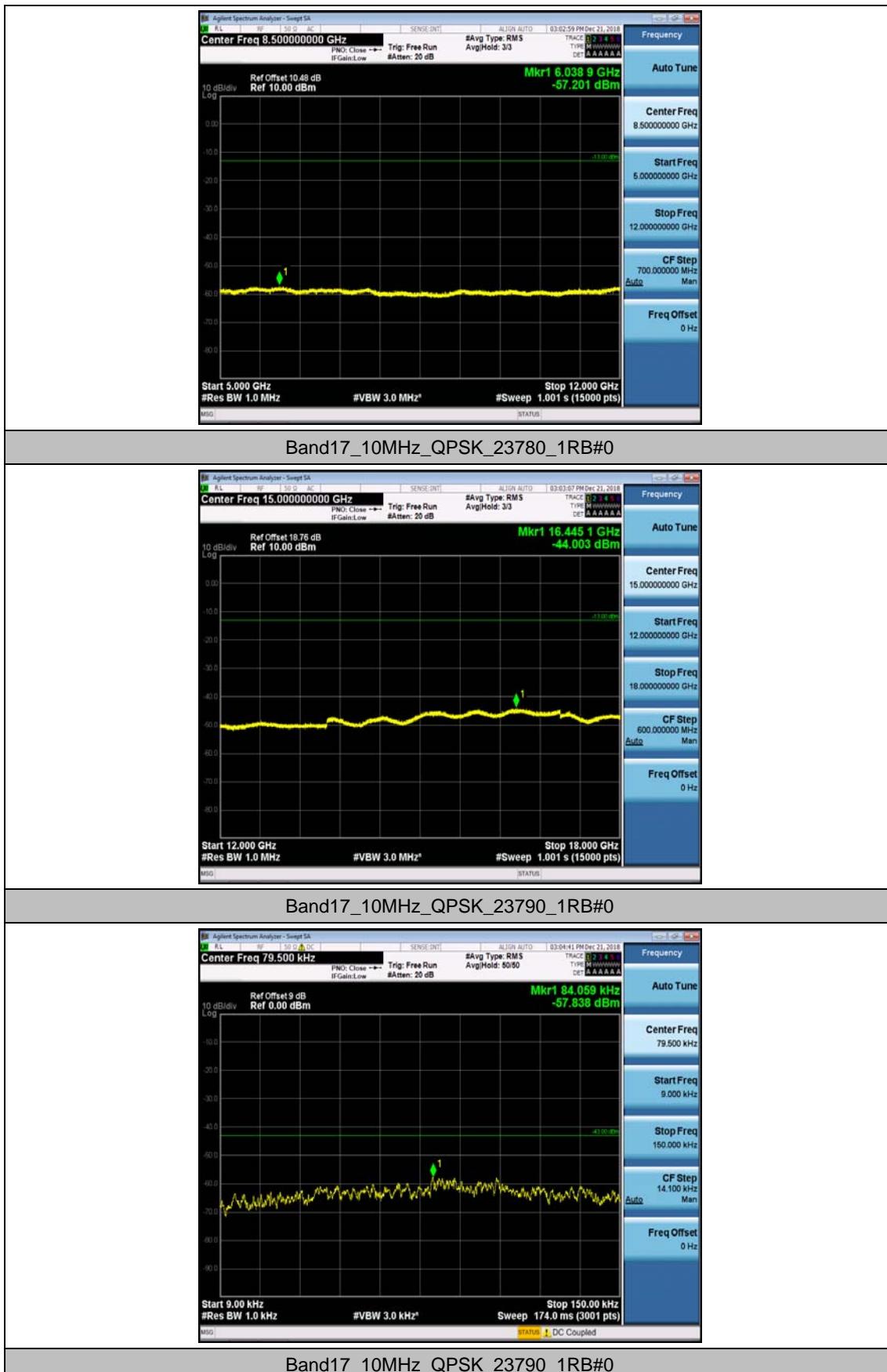


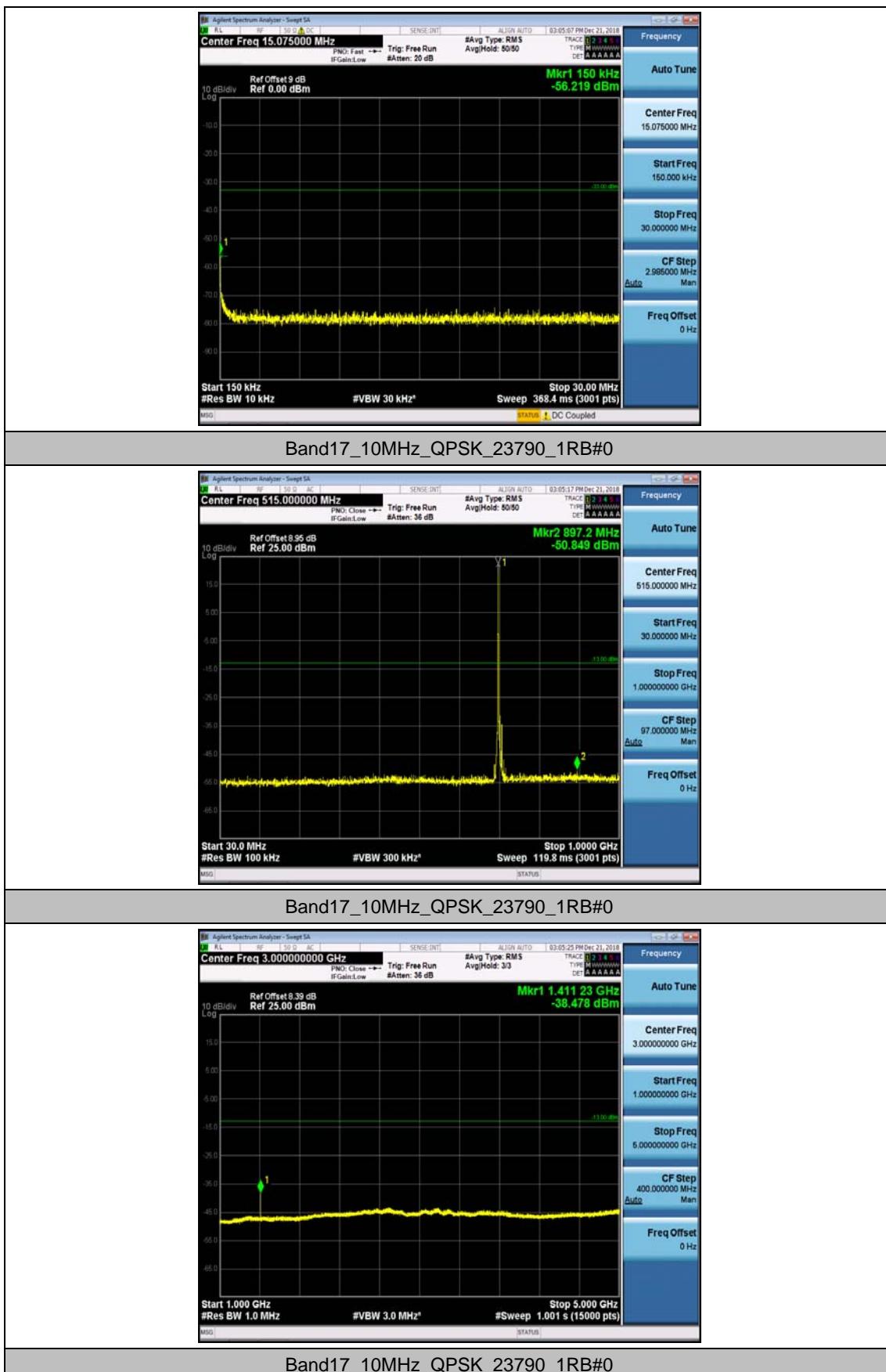


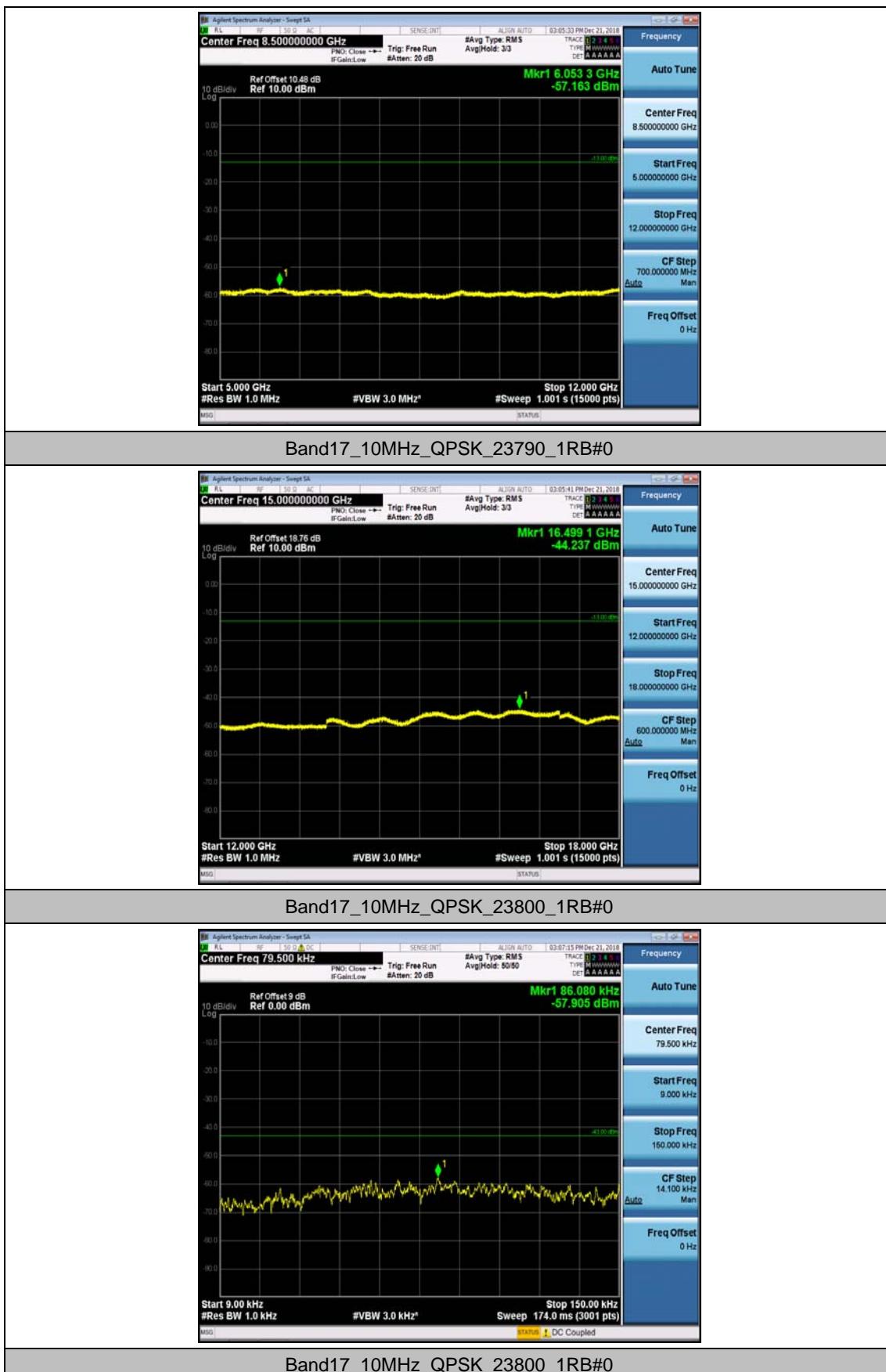


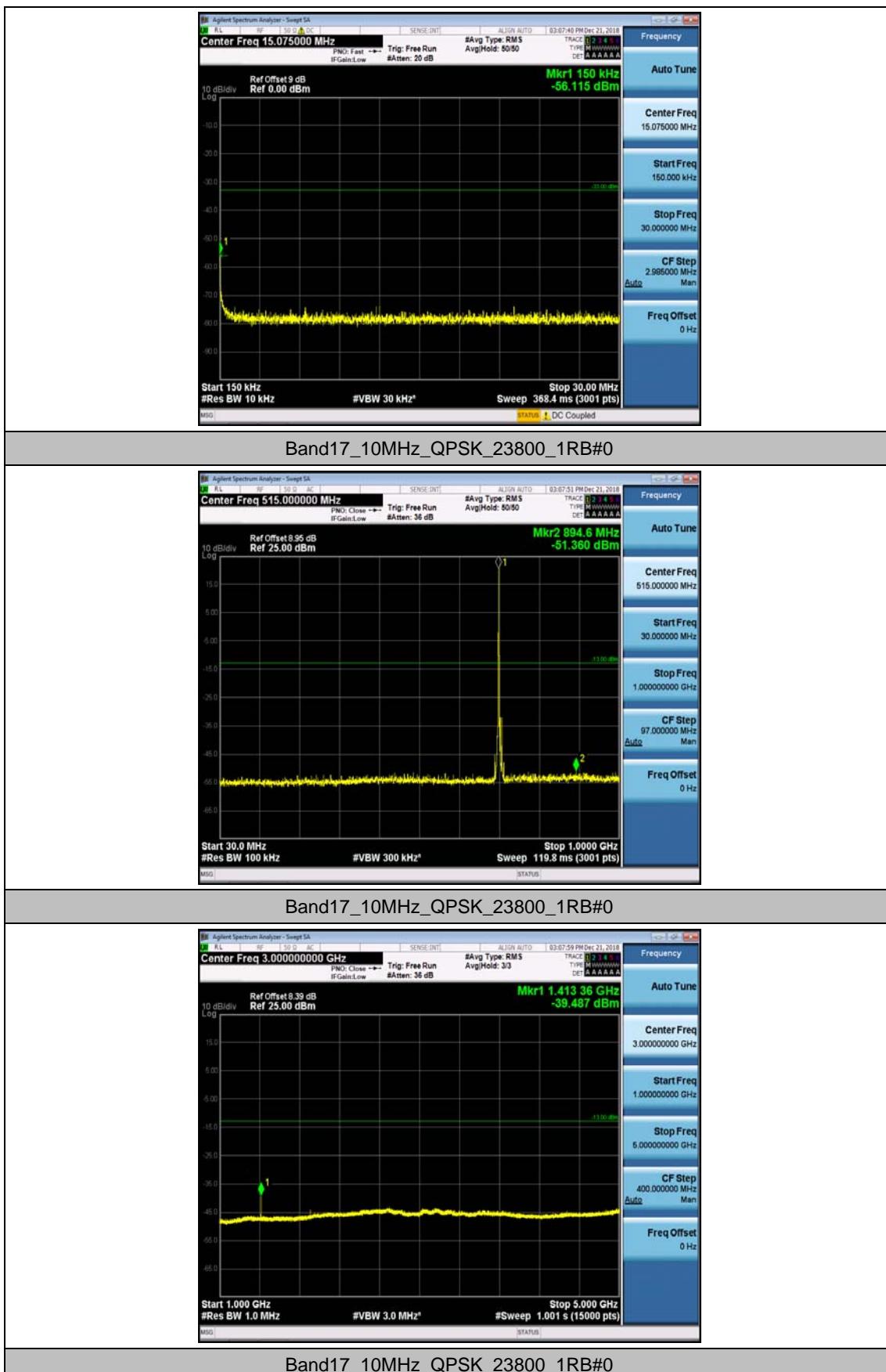


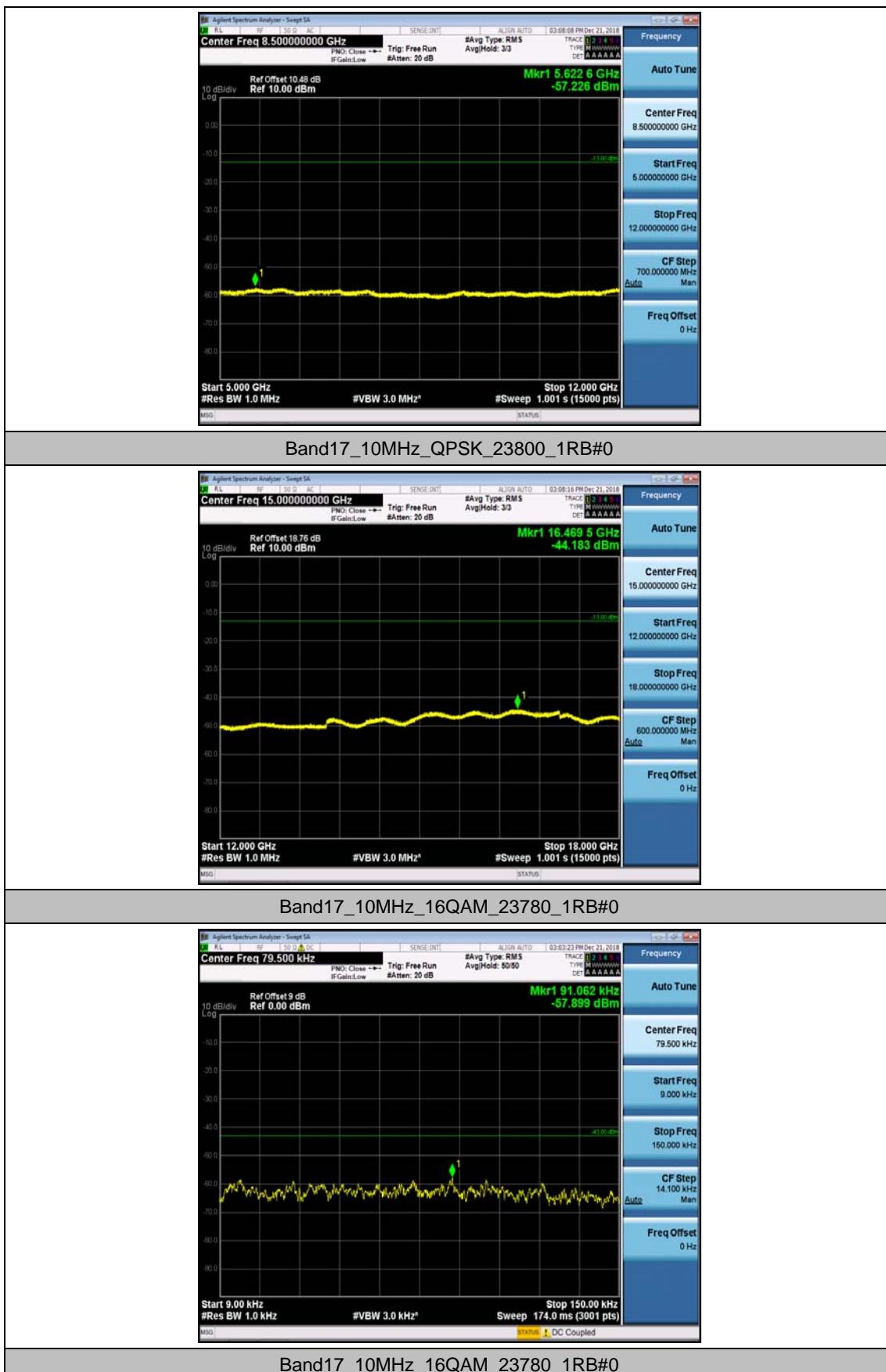


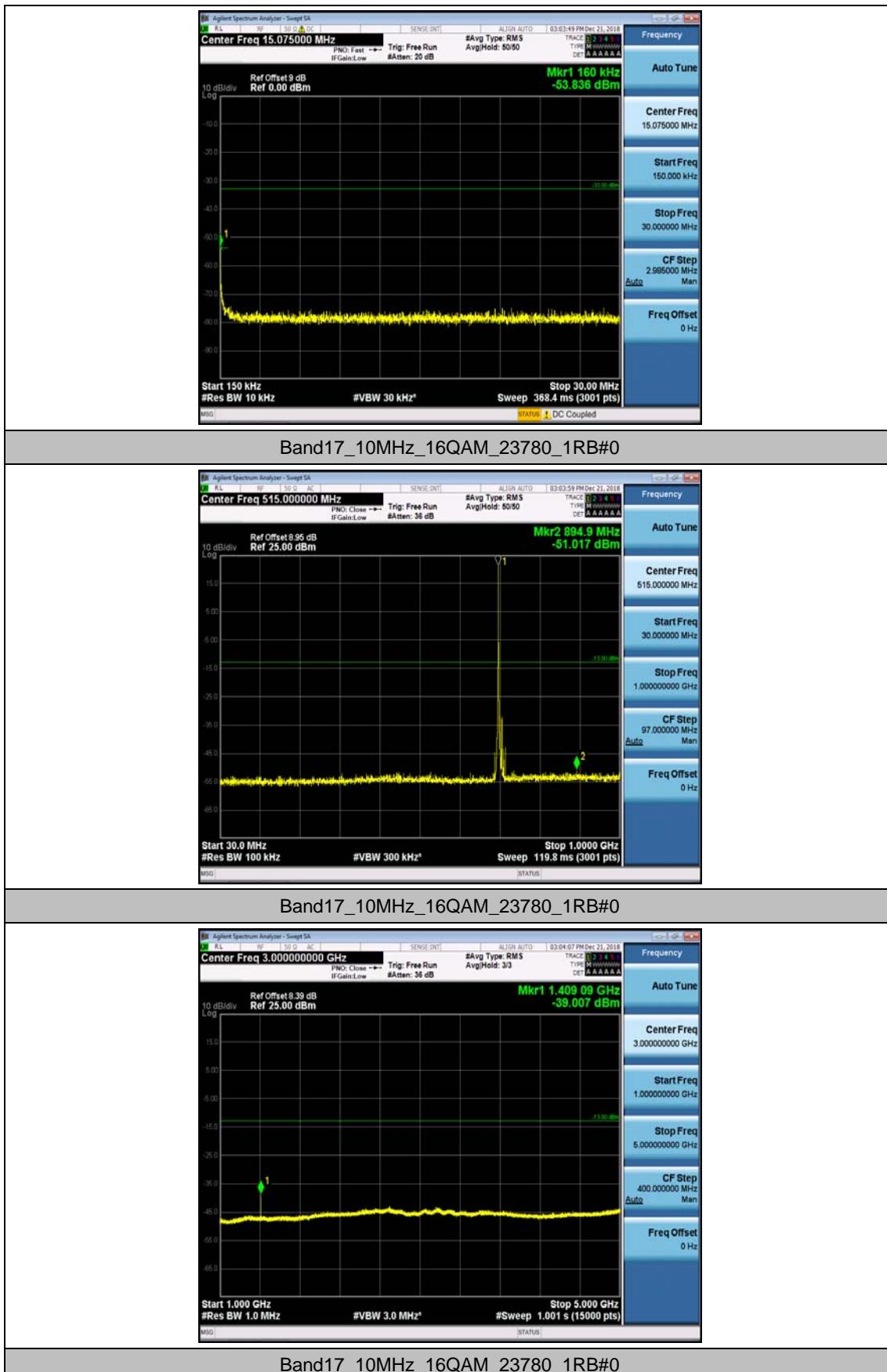


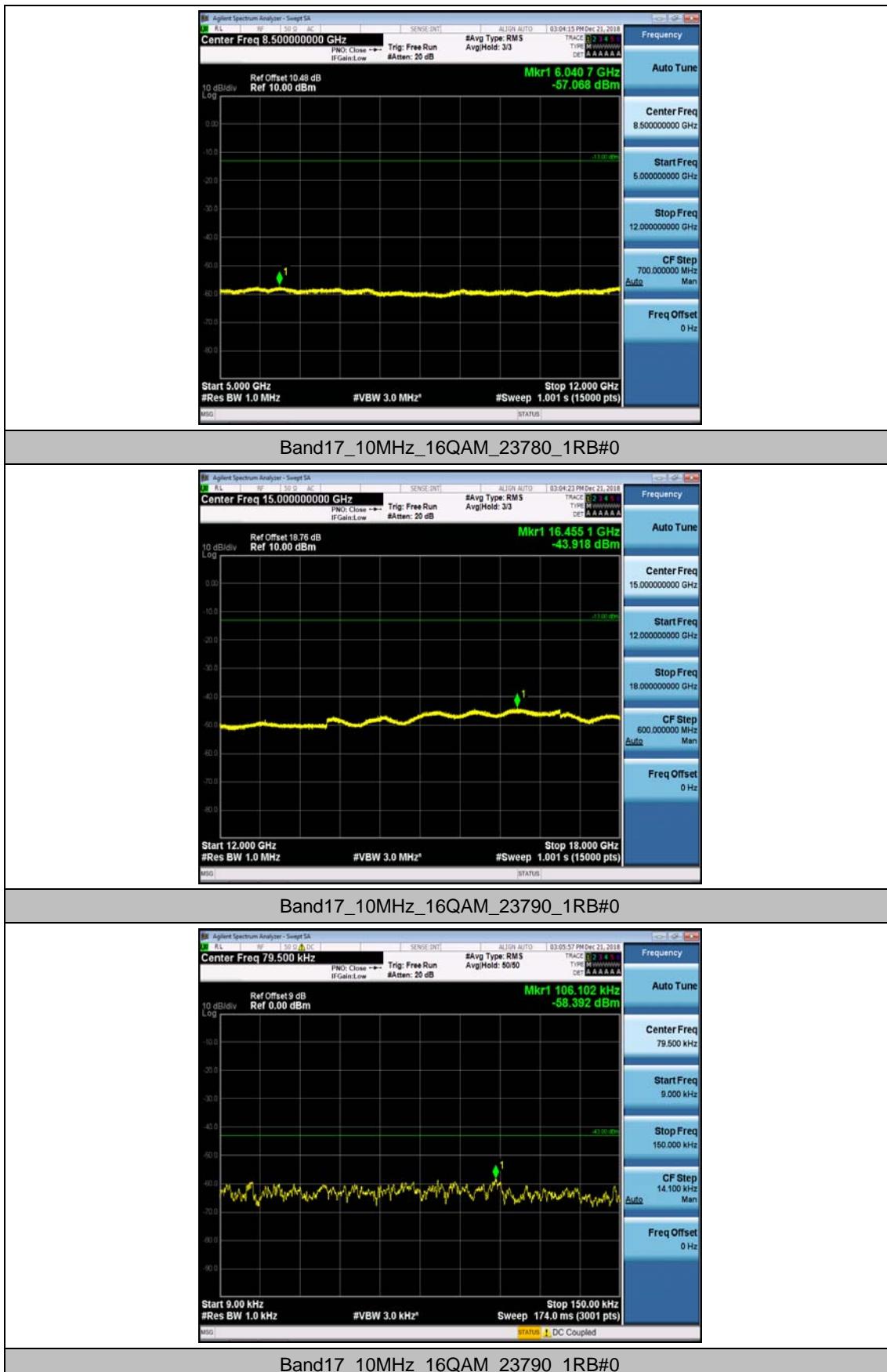


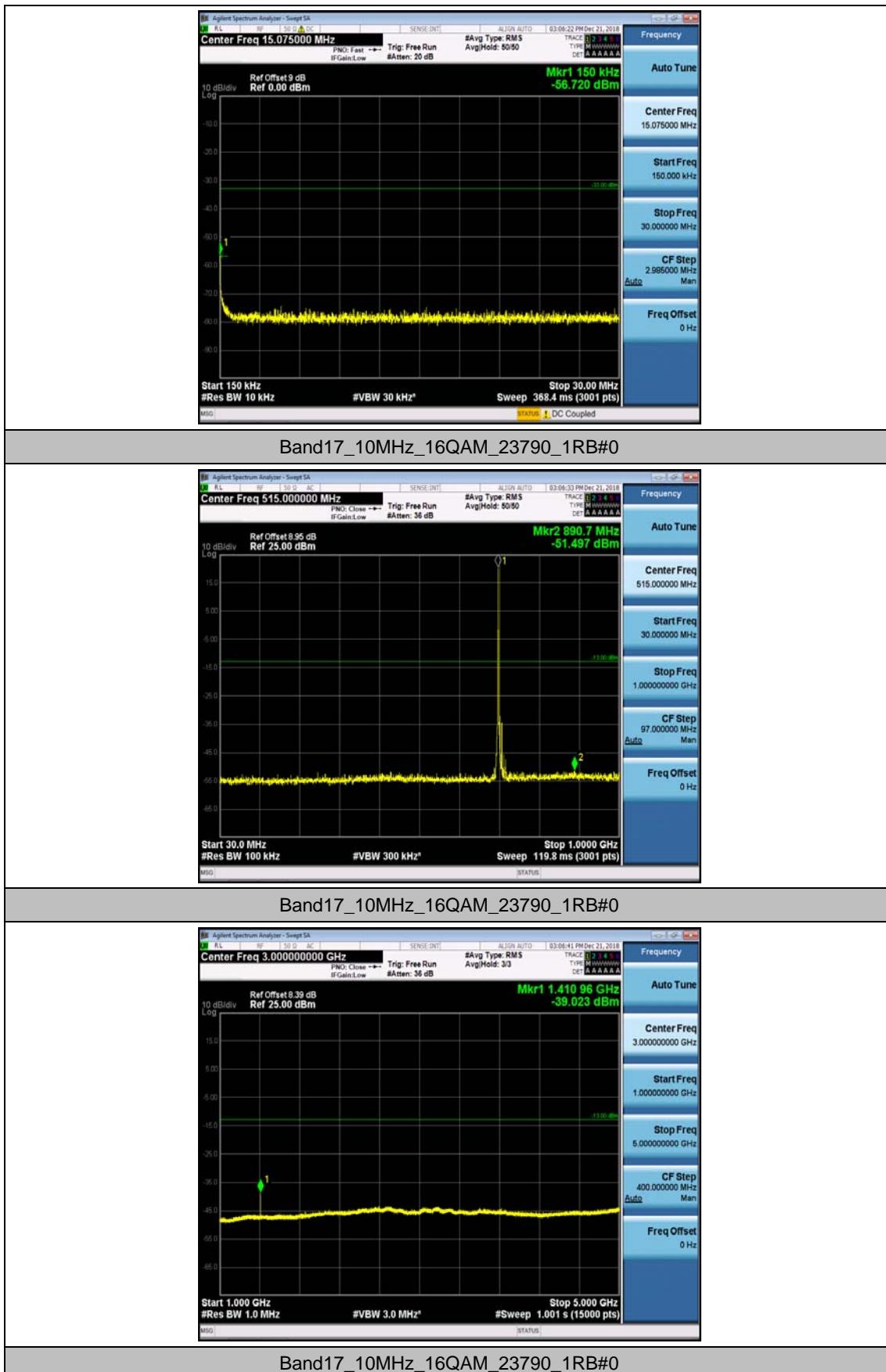


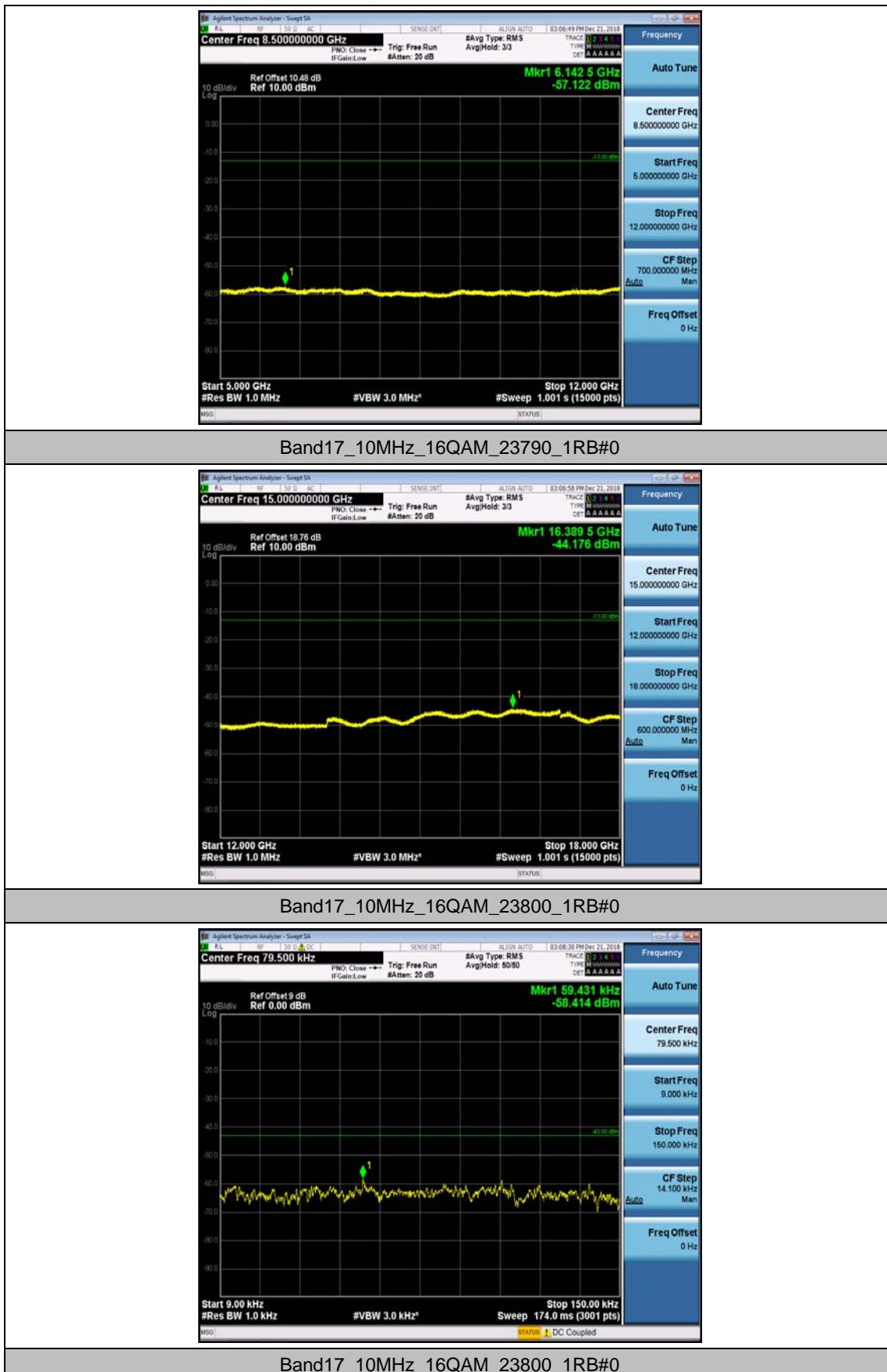


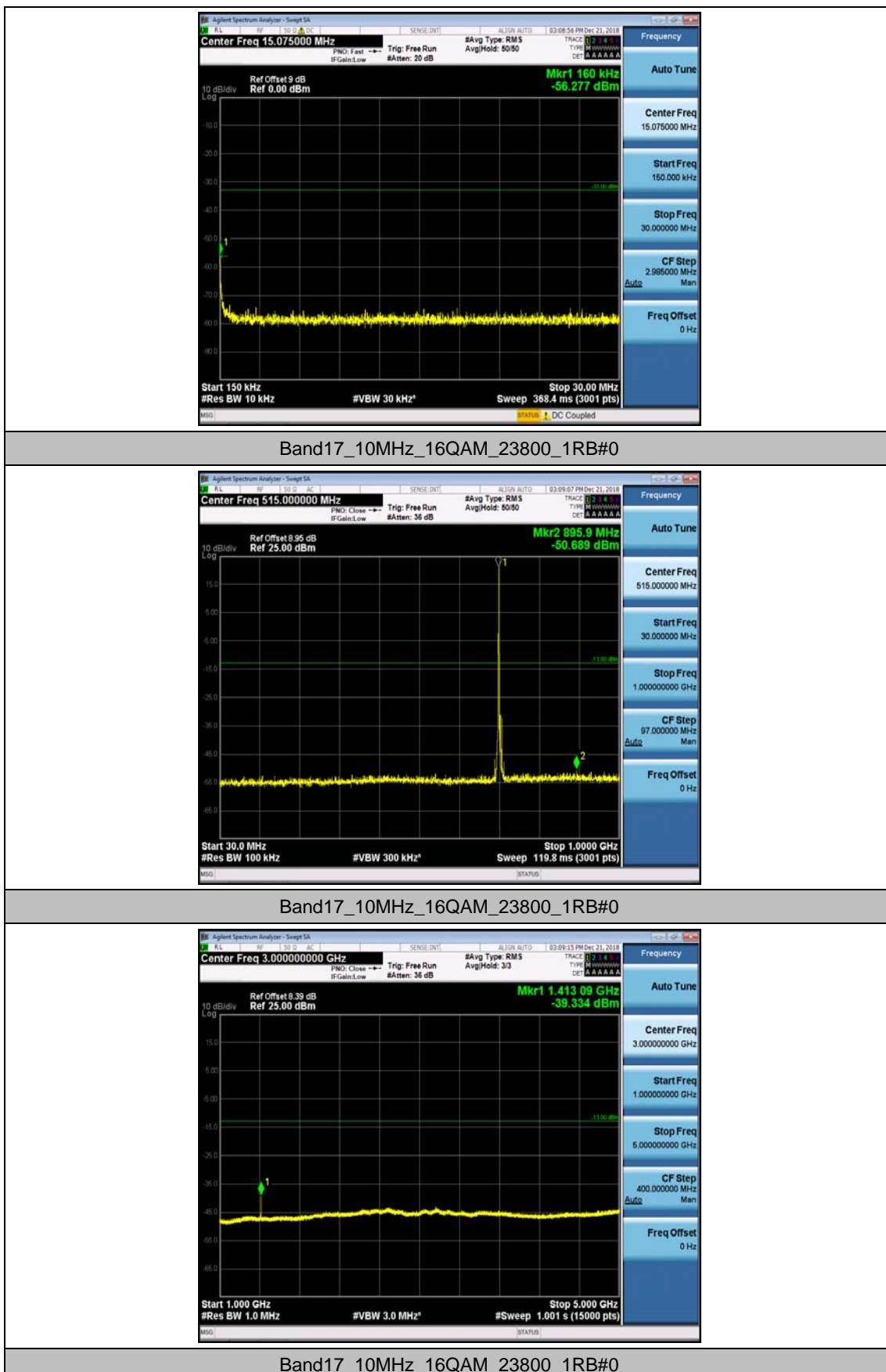


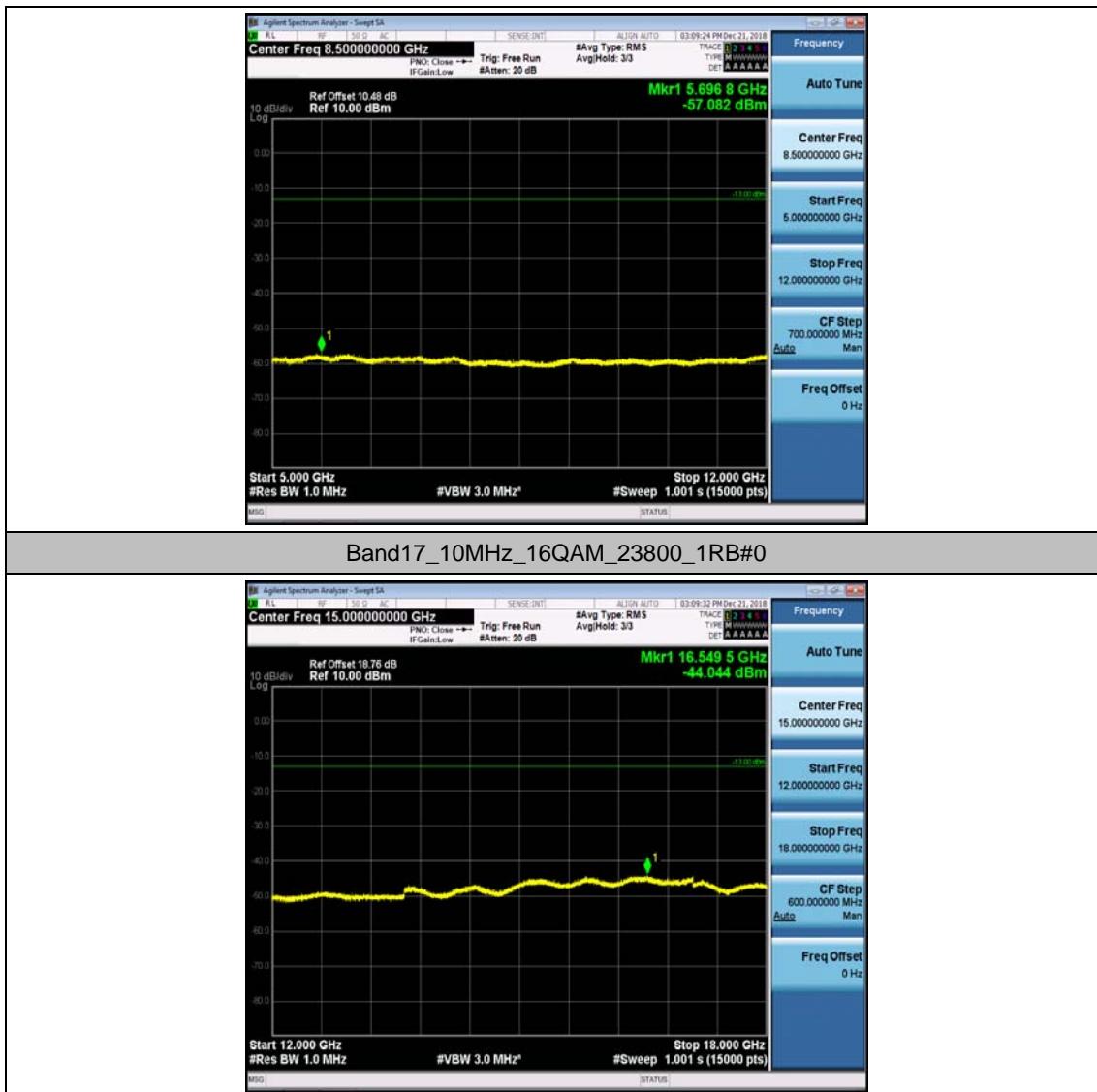












Appendix F: Frequency Stability

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	0.13	0.000184	± 2.5	PASS
		VN	TN	1.62	0.002293	± 2.5	PASS
		VH	TN	0.66	0.000934	± 2.5	PASS
	MCH	VL	TN	1.39	0.001958	± 2.5	PASS
		VN	TN	-0.78	-0.001099	± 2.5	PASS
		VH	TN	3.09	0.004352	± 2.5	PASS
	HCH	VL	TN	0.17	0.000238	± 2.5	PASS
		VN	TN	-0.34	-0.000477	± 2.5	PASS
		VH	TN	0.2	0.000280	± 2.5	PASS
16QAM	LCH	VL	TN	0.99	0.001401	± 2.5	PASS
		VN	TN	4.02	0.005690	± 2.5	PASS
		VH	TN	1.21	0.001713	± 2.5	PASS
	MCH	VL	TN	3.71	0.005225	± 2.5	PASS
		VN	TN	3.45	0.004859	± 2.5	PASS
		VH	TN	4.52	0.006366	± 2.5	PASS
	HCH	VL	TN	1.13	0.001584	± 2.5	PASS
		VN	TN	0.85	0.001191	± 2.5	PASS
		VH	TN	-0.88	-0.001233	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.47	0.003496	± 2.5	PASS
		VN	-20	2.14	0.003029	± 2.5	PASS
		VN	-10	-1.59	-0.002251	± 2.5	PASS
		VN	0	3.51	0.004968	± 2.5	PASS
		VN	10	1.25	0.001769	± 2.5	PASS
		VN	20	2.54	0.003595	± 2.5	PASS
		VN	30	2.75	0.003892	± 2.5	PASS
		VN	40	1.94	0.002746	± 2.5	PASS
		VN	50	1.34	0.001897	± 2.5	PASS
	MCH	VN	-30	0.57	0.000803	± 2.5	PASS
		VN	-20	3.64	0.005127	± 2.5	PASS
		VN	-10	0.6	0.000845	± 2.5	PASS

		VN	0	-1.49	-0.002099	± 2.5	PASS
		VN	10	1.72	0.002423	± 2.5	PASS
		VN	20	3.45	0.004859	± 2.5	PASS
		VN	30	3.43	0.004831	± 2.5	PASS
		VN	40	-1.1	-0.001549	± 2.5	PASS
		VN	50	1.65	0.002324	± 2.5	PASS
		VN	-30	-0.39	-0.000547	± 2.5	PASS
		VN	-20	2.66	0.003728	± 2.5	PASS
		VN	-10	-0.02	-0.000028	± 2.5	PASS
		VN	0	2.84	0.003980	± 2.5	PASS
		VN	10	2.7	0.003784	± 2.5	PASS
		VN	20	-0.66	-0.000925	± 2.5	PASS
		VN	30	1.67	0.002341	± 2.5	PASS
		VN	40	0.3	0.000420	± 2.5	PASS
		VN	50	0.72	0.001009	± 2.5	PASS
	HCH	VN	-30	2.2	0.003114	± 2.5	PASS
		VN	-20	2.84	0.004020	± 2.5	PASS
		VN	-10	2.65	0.003751	± 2.5	PASS
		VN	0	0.86	0.001217	± 2.5	PASS
		VN	10	4.36	0.006171	± 2.5	PASS
		VN	20	4.63	0.006553	± 2.5	PASS
		VN	30	0.7	0.000991	± 2.5	PASS
		VN	40	-1.89	-0.002675	± 2.5	PASS
		VN	50	1.6	0.002265	± 2.5	PASS
	LCH	VN	-30	0.35	0.000493	± 2.5	PASS
		VN	-20	-0.62	-0.000873	± 2.5	PASS
		VN	-10	2.47	0.003479	± 2.5	PASS
		VN	0	0.54	0.000761	± 2.5	PASS
		VN	10	4.7	0.006620	± 2.5	PASS
		VN	20	3.98	0.005606	± 2.5	PASS
		VN	30	2.22	0.003127	± 2.5	PASS
		VN	40	4.69	0.006606	± 2.5	PASS
		VN	50	3.75	0.005282	± 2.5	PASS
	MCH	VN	-30	1.98	0.002775	± 2.5	PASS
		VN	-20	1.52	0.002130	± 2.5	PASS
		VN	-10	1.48	0.002074	± 2.5	PASS
		VN	0	-1.1	-0.001542	± 2.5	PASS
		VN	10	-0.21	-0.000294	± 2.5	PASS
		VN	20	1.22	0.001710	± 2.5	PASS
		VN	30	4.49	0.006293	± 2.5	PASS
		VN	40	0.95	0.001331	± 2.5	PASS

		VN	50	-0.96	-0.001345	± 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	1.86	0.002623	± 2.5	PASS
		VN	TN	-1.21	-0.001707	± 2.5	PASS
		VH	TN	-0.83	-0.001171	± 2.5	PASS
	MCH	VL	TN	-1.69	-0.002380	± 2.5	PASS
		VN	TN	-1.88	-0.002648	± 2.5	PASS
		VH	TN	1.99	0.002803	± 2.5	PASS
	HCH	VL	TN	-1.86	-0.002616	± 2.5	PASS
		VN	TN	-0.2	-0.000281	± 2.5	PASS
		VH	TN	4.46	0.006273	± 2.5	PASS
16QAM	LCH	VL	TN	3.82	0.005388	± 2.5	PASS
		VN	TN	3.73	0.005261	± 2.5	PASS
		VH	TN	0.07	0.000099	± 2.5	PASS
	MCH	VL	TN	0.35	0.000493	± 2.5	PASS
		VN	TN	2.82	0.003972	± 2.5	PASS
		VH	TN	-1.55	-0.002183	± 2.5	PASS
	HCH	VL	TN	1.35	0.001899	± 2.5	PASS
		VN	TN	2.74	0.003854	± 2.5	PASS
		VH	TN	1.22	0.001716	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	1.42	0.002003	± 2.5	PASS
		VN	-20	1.78	0.002511	± 2.5	PASS
		VN	-10	2.78	0.003921	± 2.5	PASS
		VN	0	3.08	0.004344	± 2.5	PASS
		VN	10	4.5	0.006347	± 2.5	PASS
		VN	20	4.61	0.006502	± 2.5	PASS
		VN	30	4.93	0.006953	± 2.5	PASS
		VN	40	2.38	0.003357	± 2.5	PASS
		VN	50	3.07	0.004330	± 2.5	PASS
	MCH	VN	-30	3.87	0.005451	± 2.5	PASS
		VN	-20	3.78	0.005324	± 2.5	PASS
		VN	-10	4.6	0.006479	± 2.5	PASS
		VN	0	-0.92	-0.001296	± 2.5	PASS
		VN	10	2.54	0.003577	± 2.5	PASS

	HCH	VN	20	-1.35	-0.001901	± 2.5	PASS
		VN	30	-0.29	-0.000408	± 2.5	PASS
		VN	40	4.54	0.006394	± 2.5	PASS
		VN	50	0.24	0.000338	± 2.5	PASS
		VN	-30	4.96	0.006976	± 2.5	PASS
		VN	-20	4.52	0.006357	± 2.5	PASS
		VN	-10	1.02	0.001435	± 2.5	PASS
		VN	0	-0.96	-0.001350	± 2.5	PASS
		VN	10	4.86	0.006835	± 2.5	PASS
		VN	20	4.15	0.005837	± 2.5	PASS
	LCH	VN	30	-0.71	-0.000999	± 2.5	PASS
		VN	40	0.48	0.000675	± 2.5	PASS
		VN	50	1.56	0.002194	± 2.5	PASS
		VN	-30	3.81	0.005374	± 2.5	PASS
		VN	-20	1.02	0.001439	± 2.5	PASS
		VN	-10	-0.83	-0.001171	± 2.5	PASS
		VN	0	0.66	0.000931	± 2.5	PASS
		VN	10	2.32	0.003272	± 2.5	PASS
		VN	20	3.65	0.005148	± 2.5	PASS
		VN	30	-1.33	-0.001876	± 2.5	PASS
	QPSK	VN	40	-0.81	-0.001142	± 2.5	PASS
		VN	50	-0.03	-0.000042	± 2.5	PASS
		VN	-30	-0.06	-0.000085	± 2.5	PASS
		VN	-20	0.93	0.001310	± 2.5	PASS
		VN	-10	2.25	0.003169	± 2.5	PASS
		VN	0	4.95	0.006972	± 2.5	PASS
		VN	10	3.79	0.005338	± 2.5	PASS
		VN	20	-0.6	-0.000845	± 2.5	PASS
		VN	30	2.26	0.003183	± 2.5	PASS
		VN	40	4.19	0.005901	± 2.5	PASS
	MCH	VN	50	4.79	0.006746	± 2.5	PASS
		VN	-30	-1.44	-0.002025	± 2.5	PASS
		VN	-20	-1.41	-0.001983	± 2.5	PASS
		VN	-10	3.3	0.004641	± 2.5	PASS
		VN	0	4.17	0.005865	± 2.5	PASS
		VN	10	1.51	0.002124	± 2.5	PASS
		VN	20	4.35	0.006118	± 2.5	PASS
		VN	30	0.74	0.001041	± 2.5	PASS
		VN	40	1.08	0.001519	± 2.5	PASS
		VN	50	-0.69	-0.000970	± 2.5	PASS