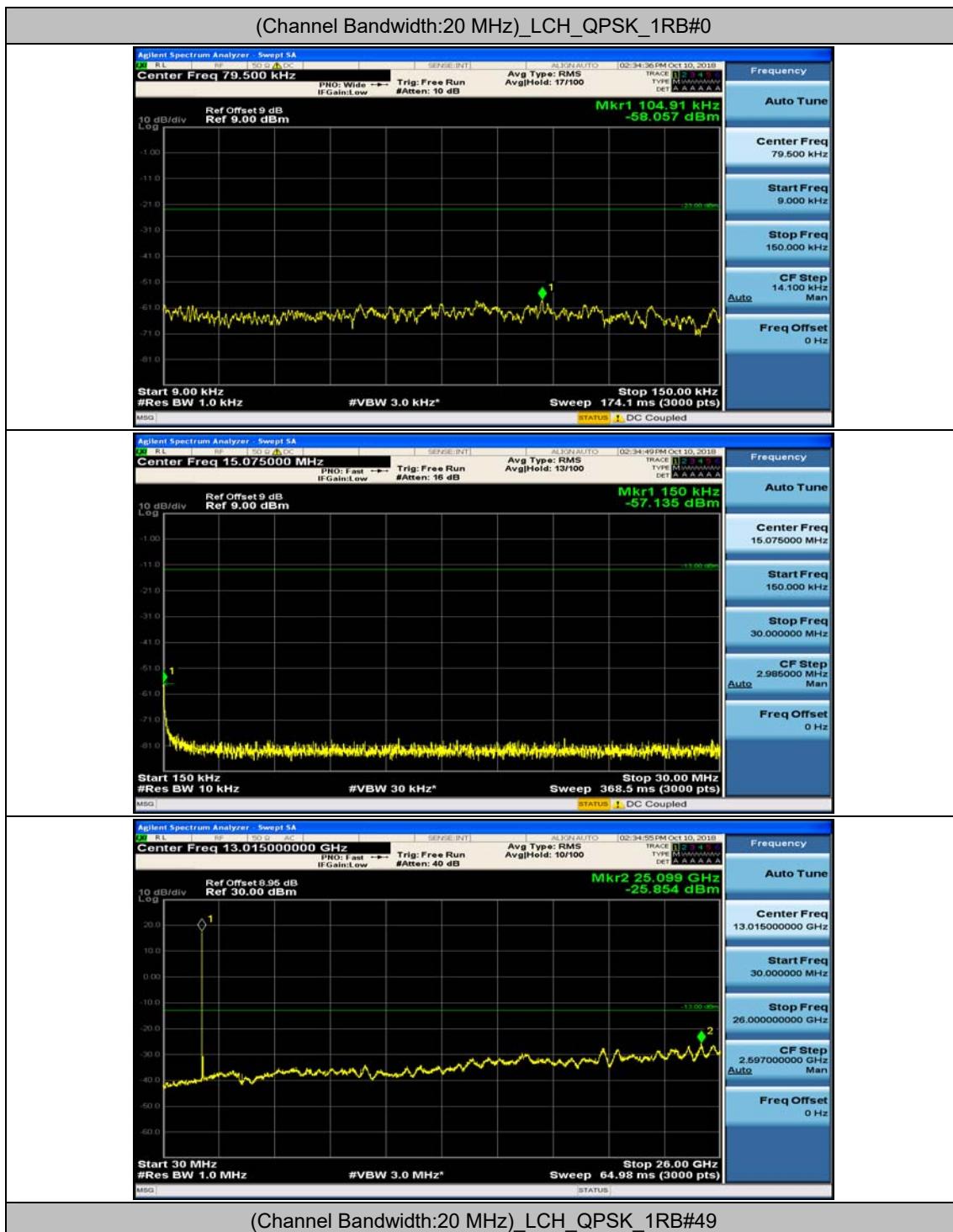
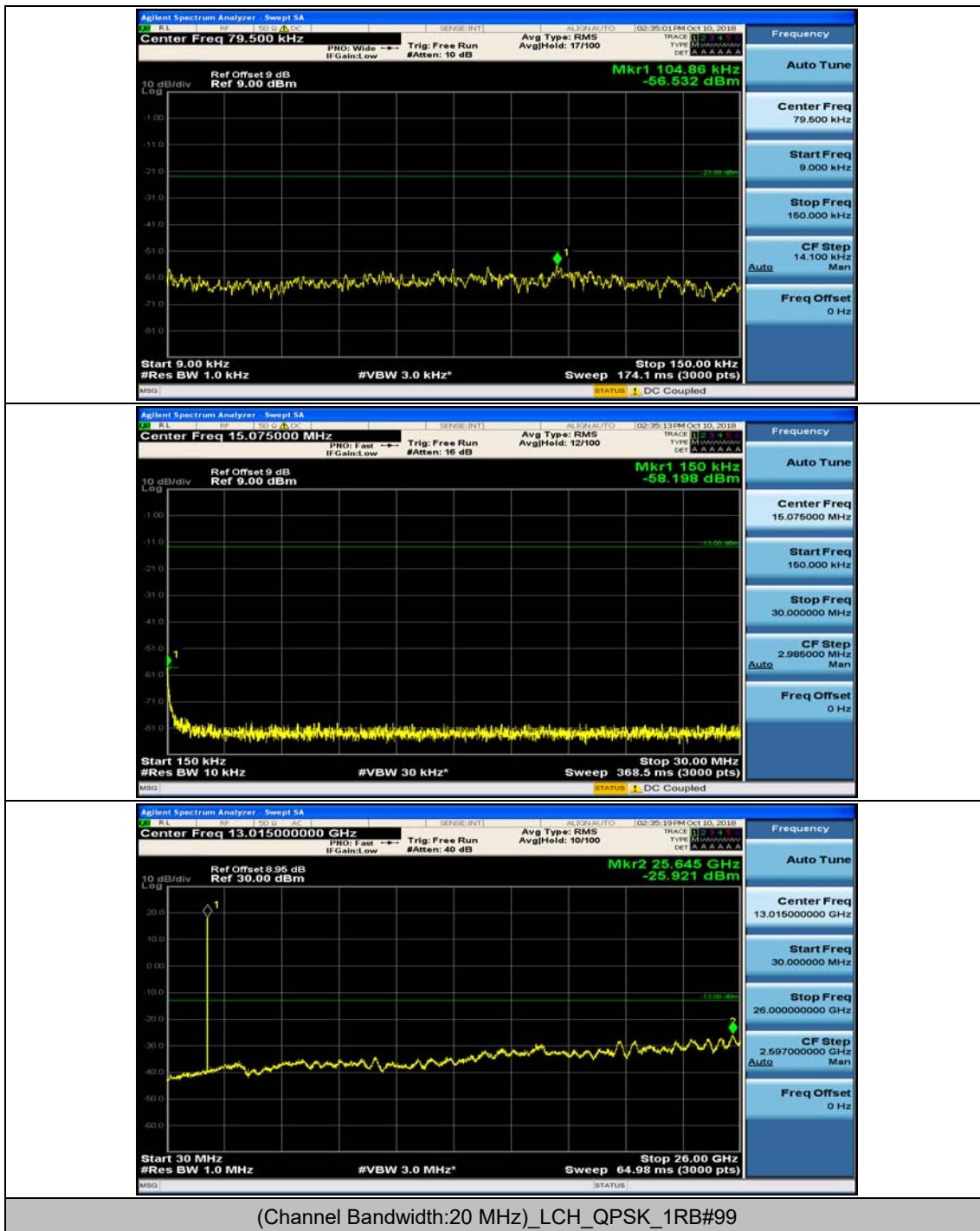
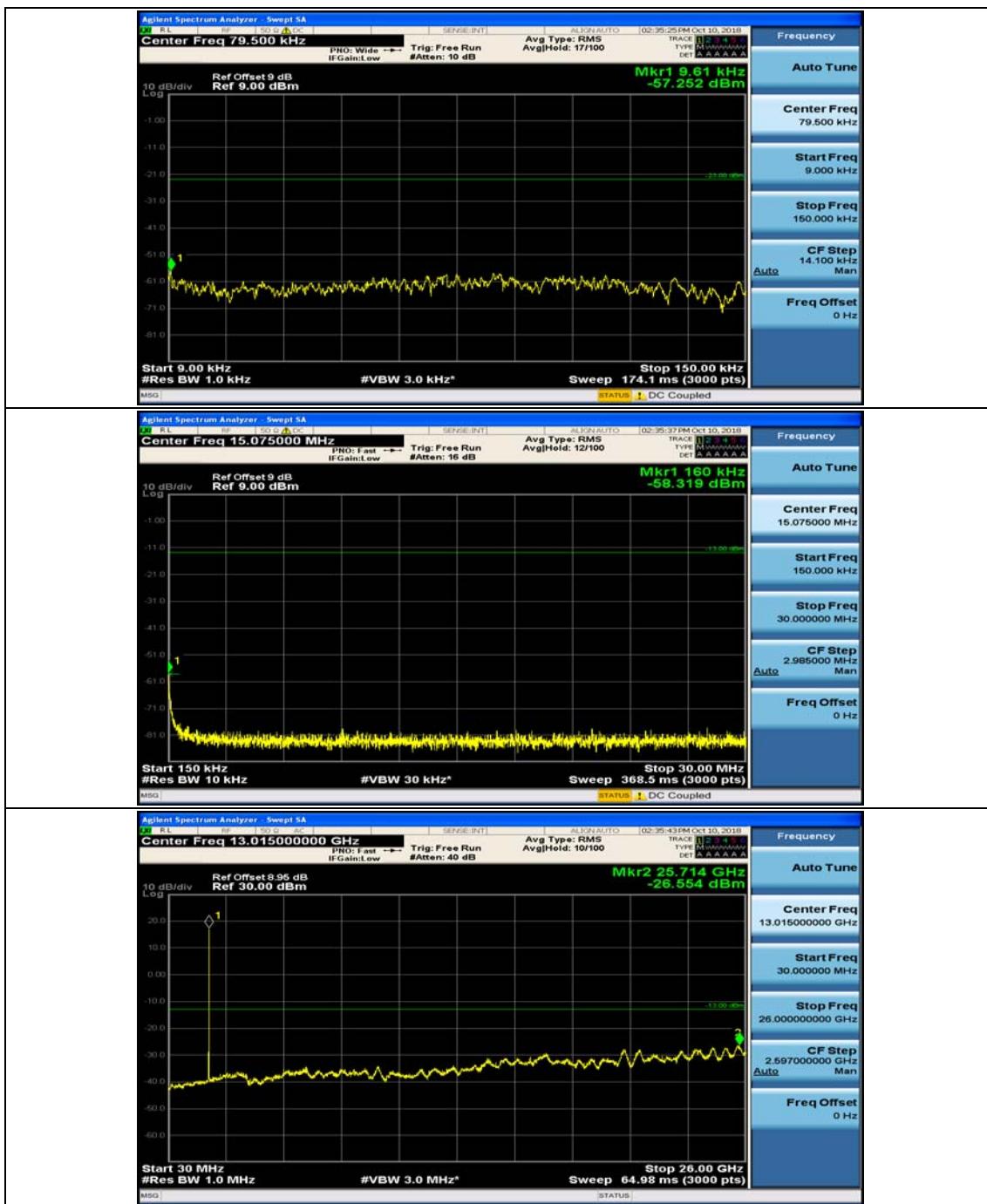
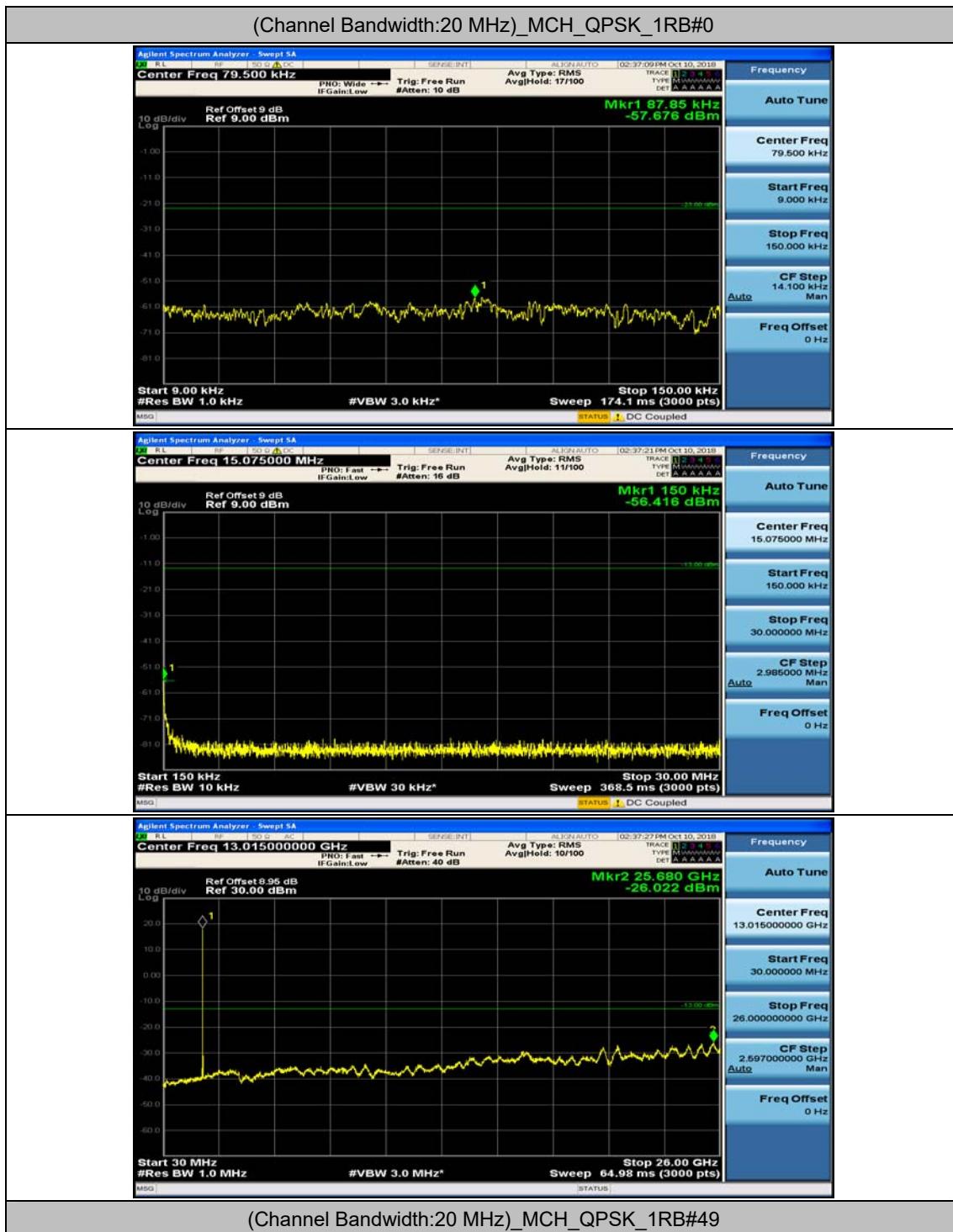


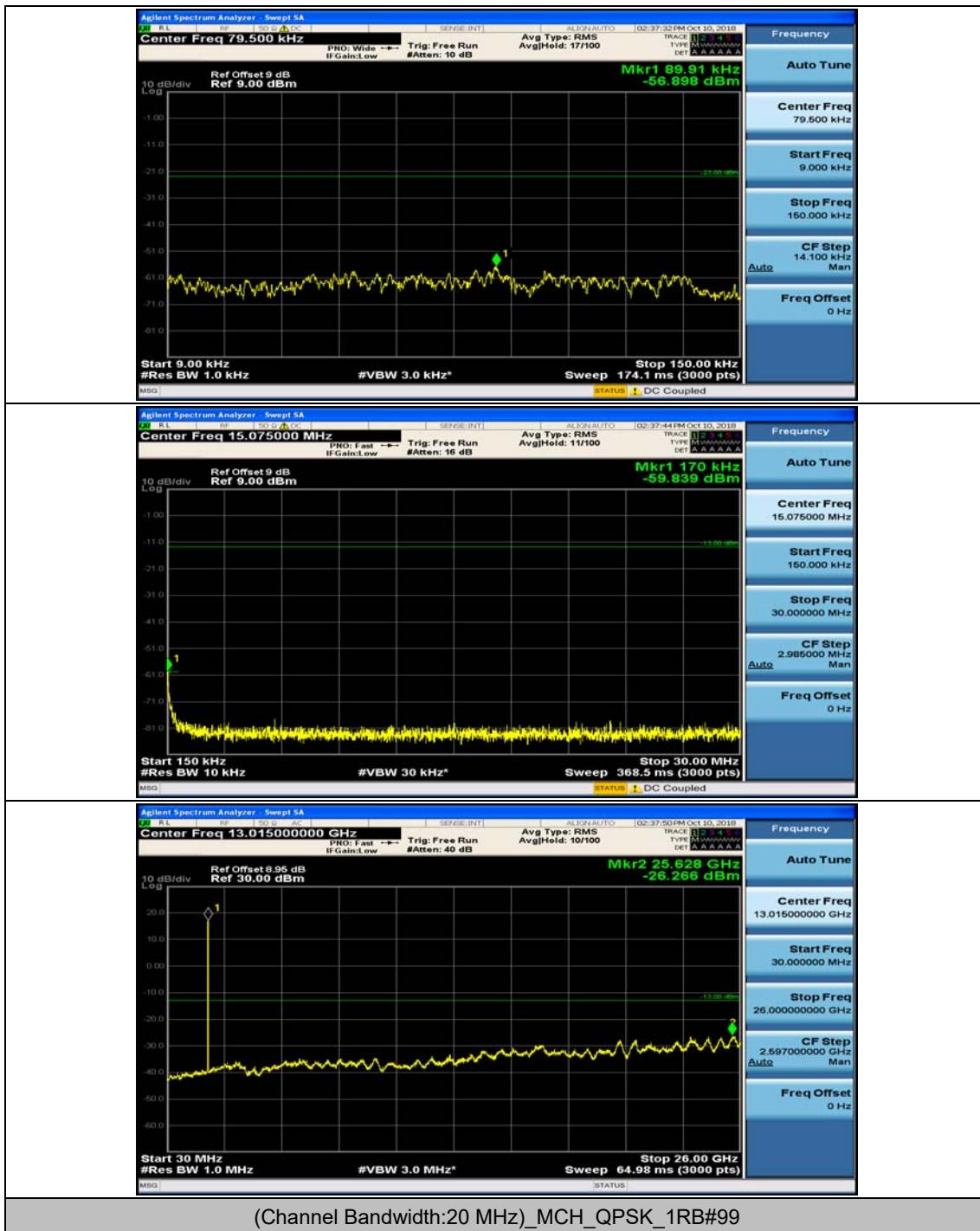
## Channel Bandwidth: 20 MHz

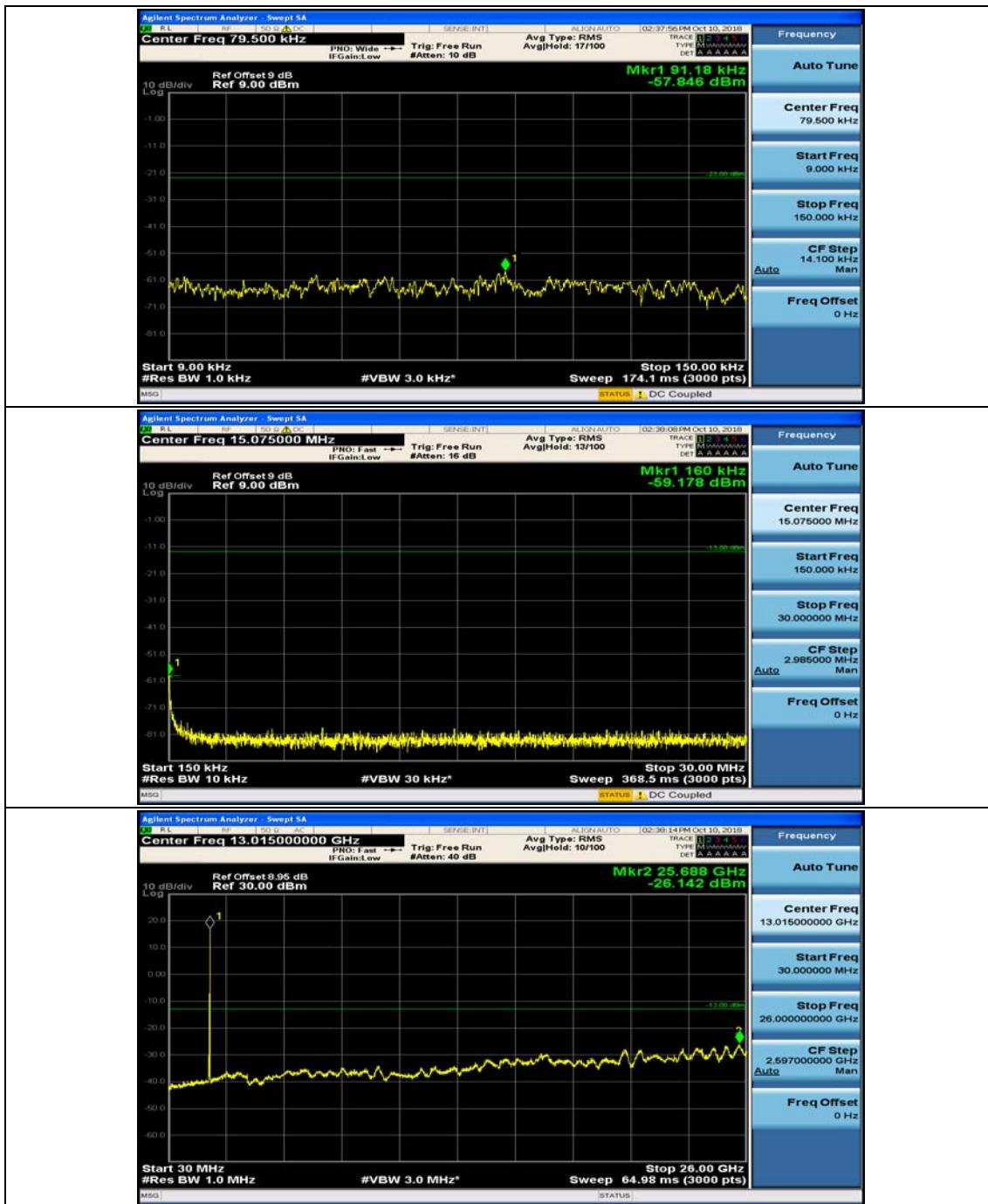


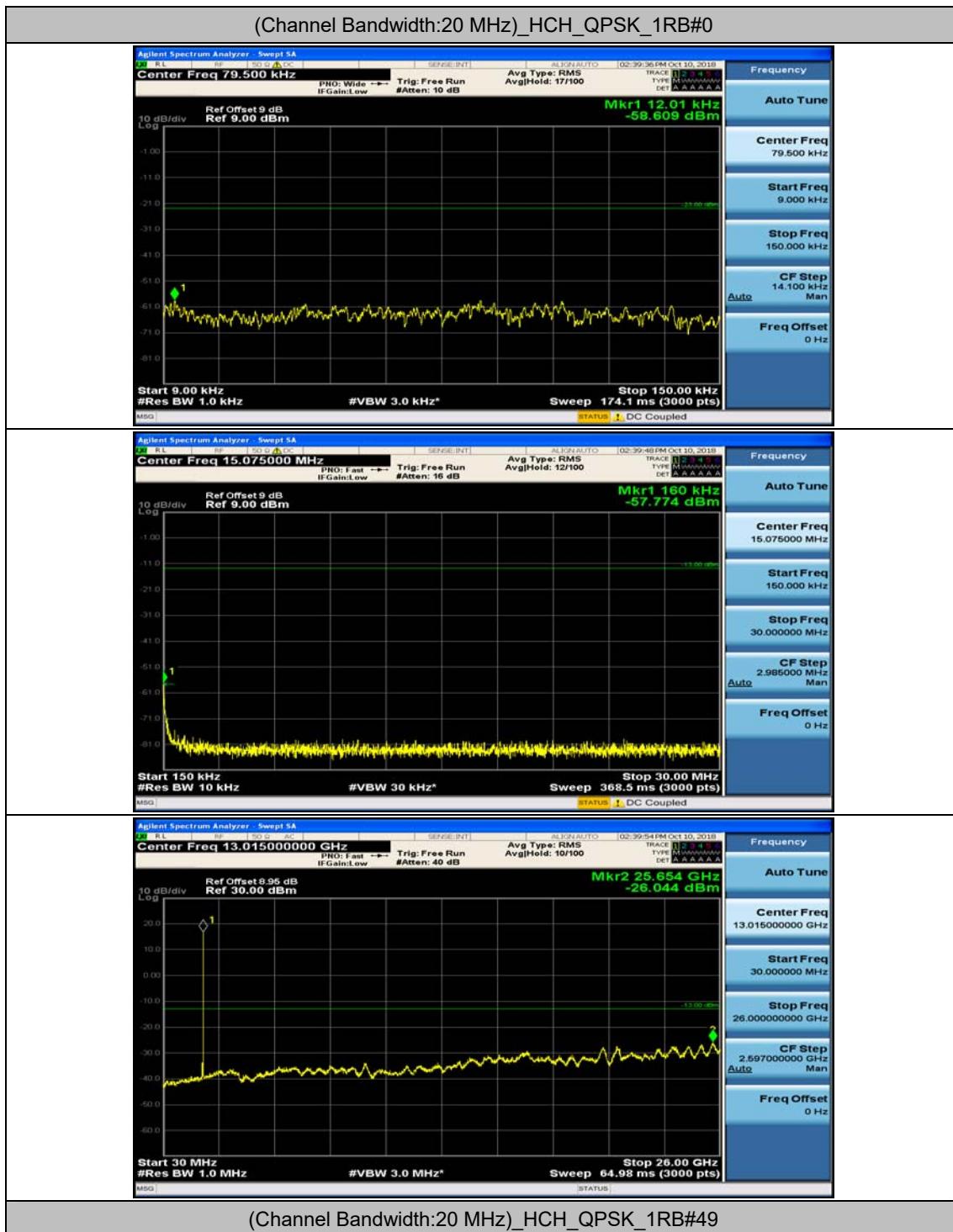


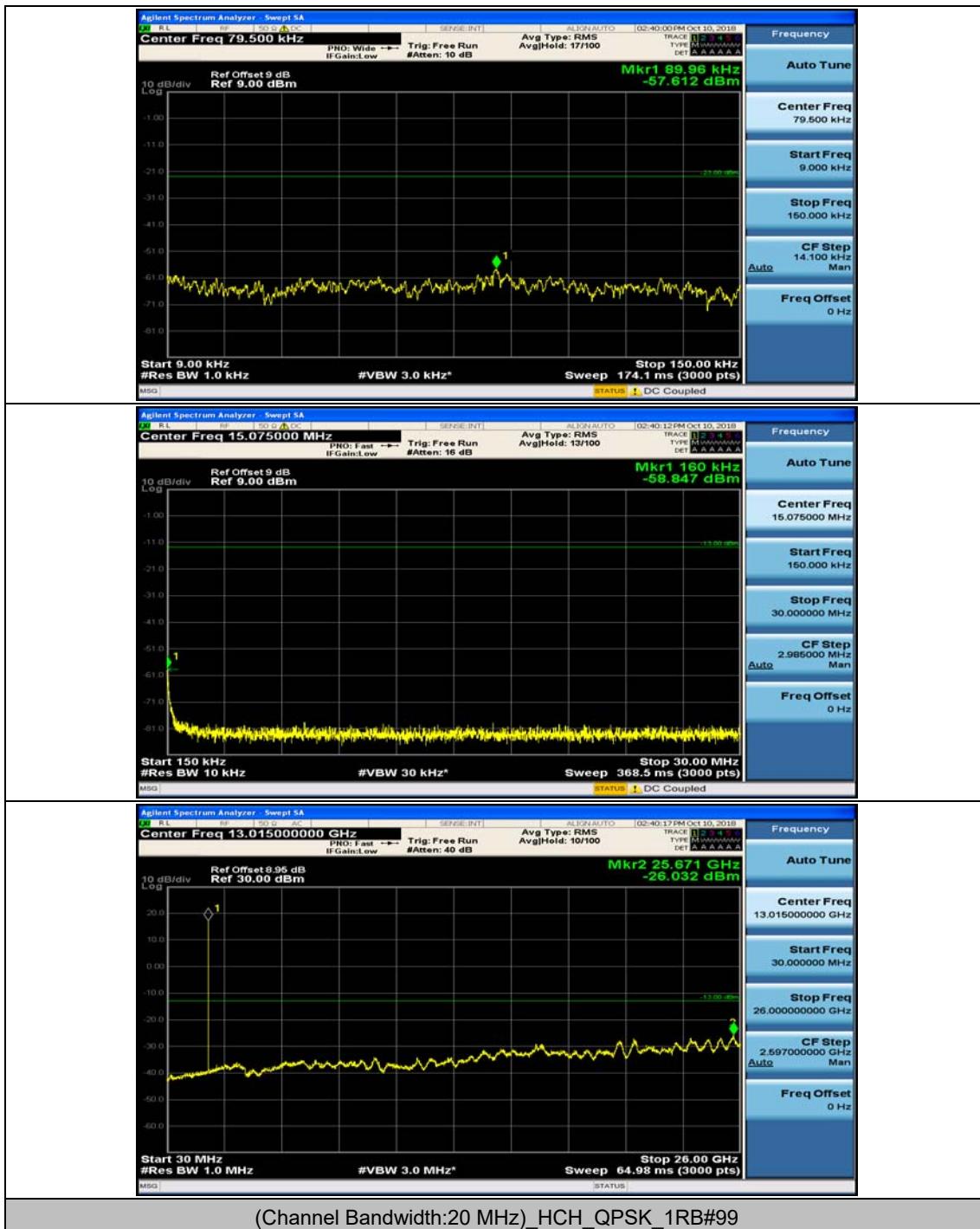


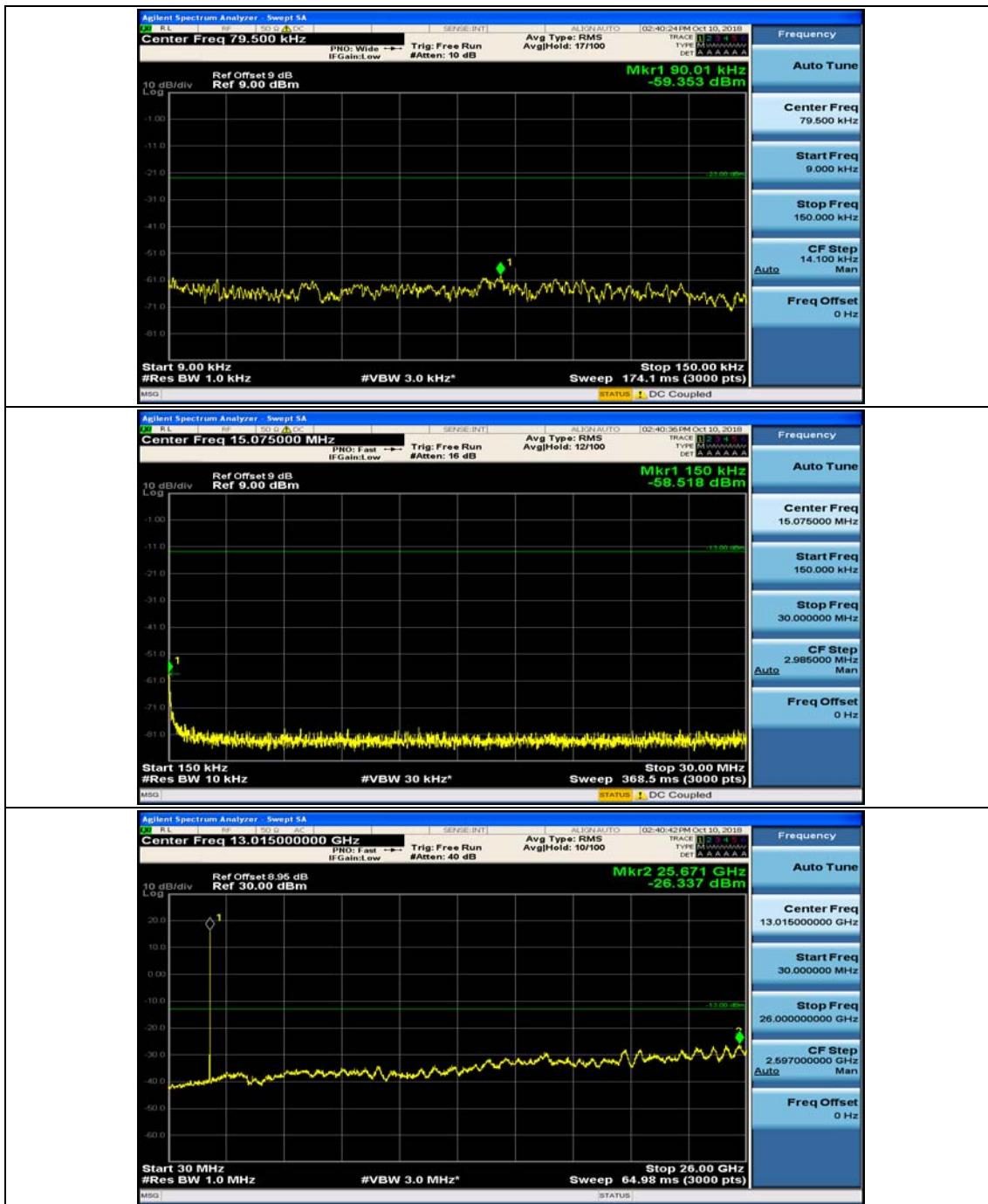


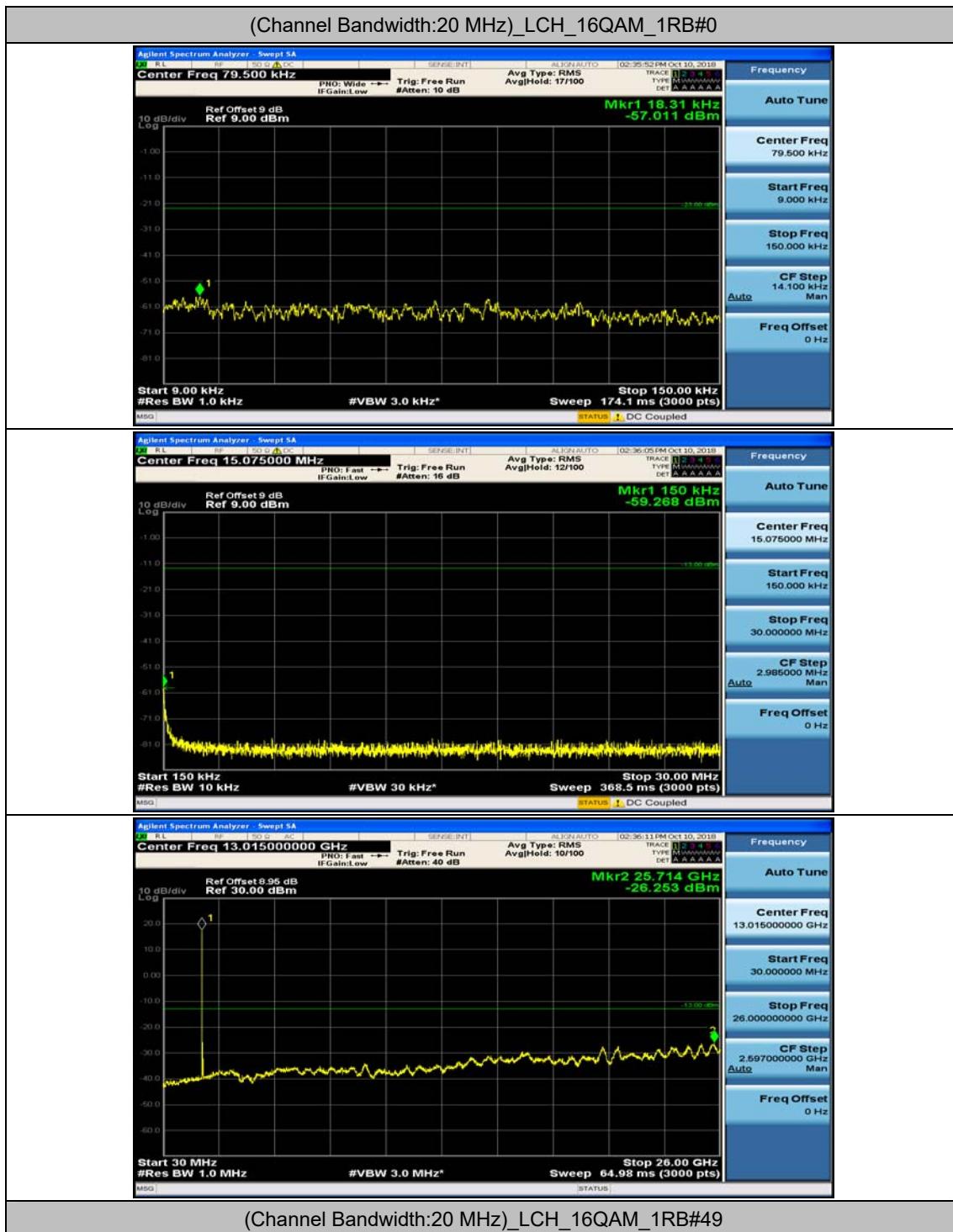


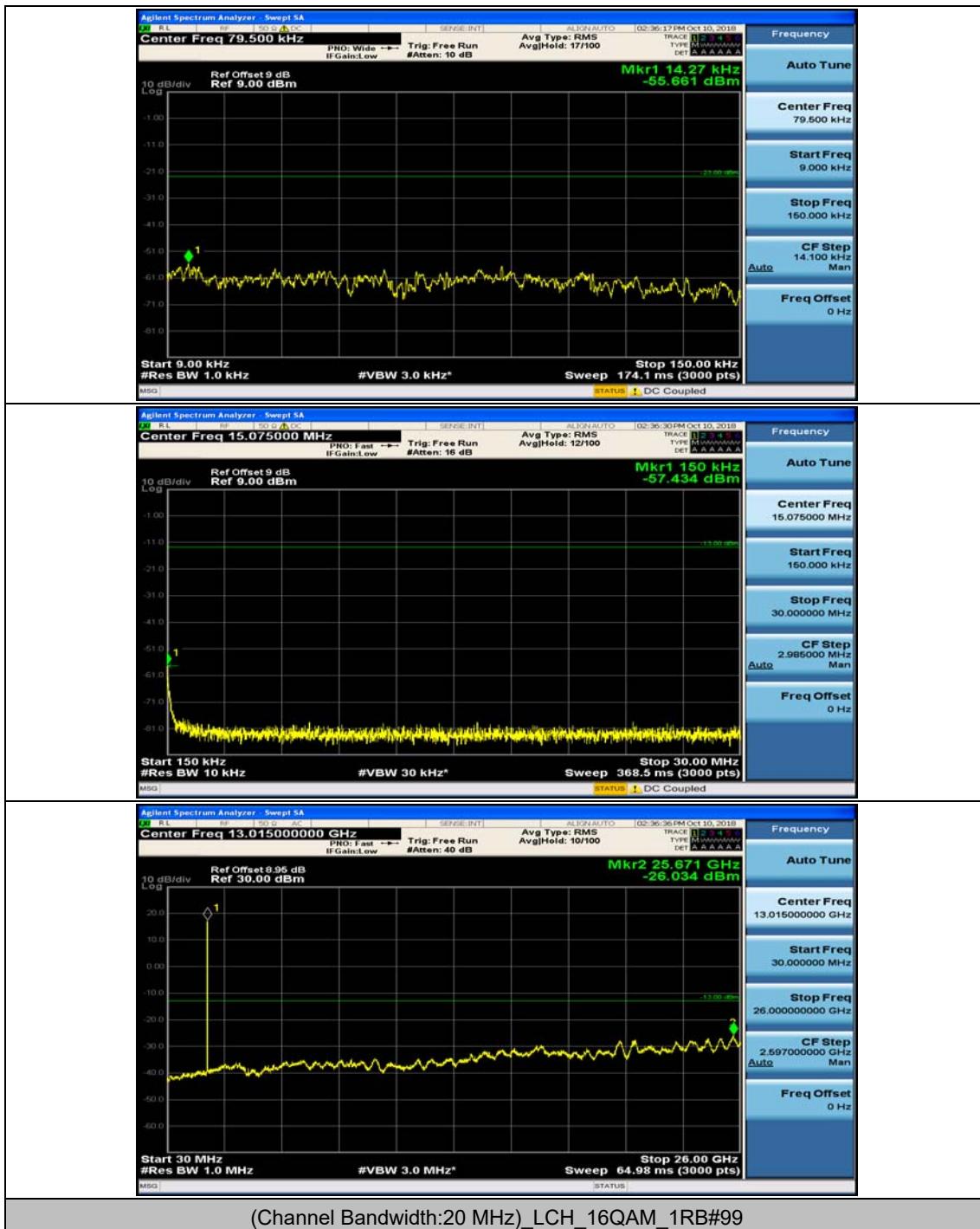


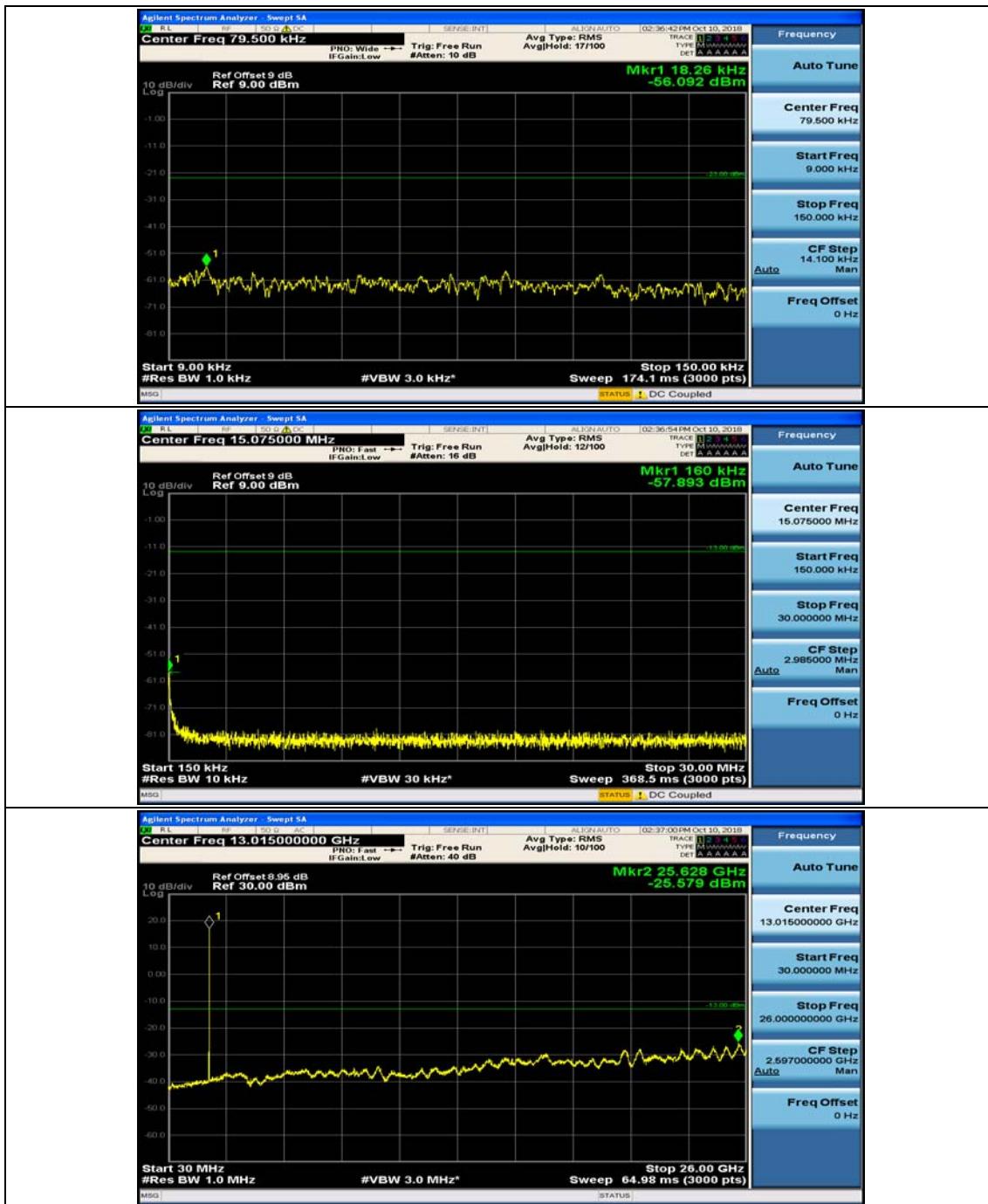


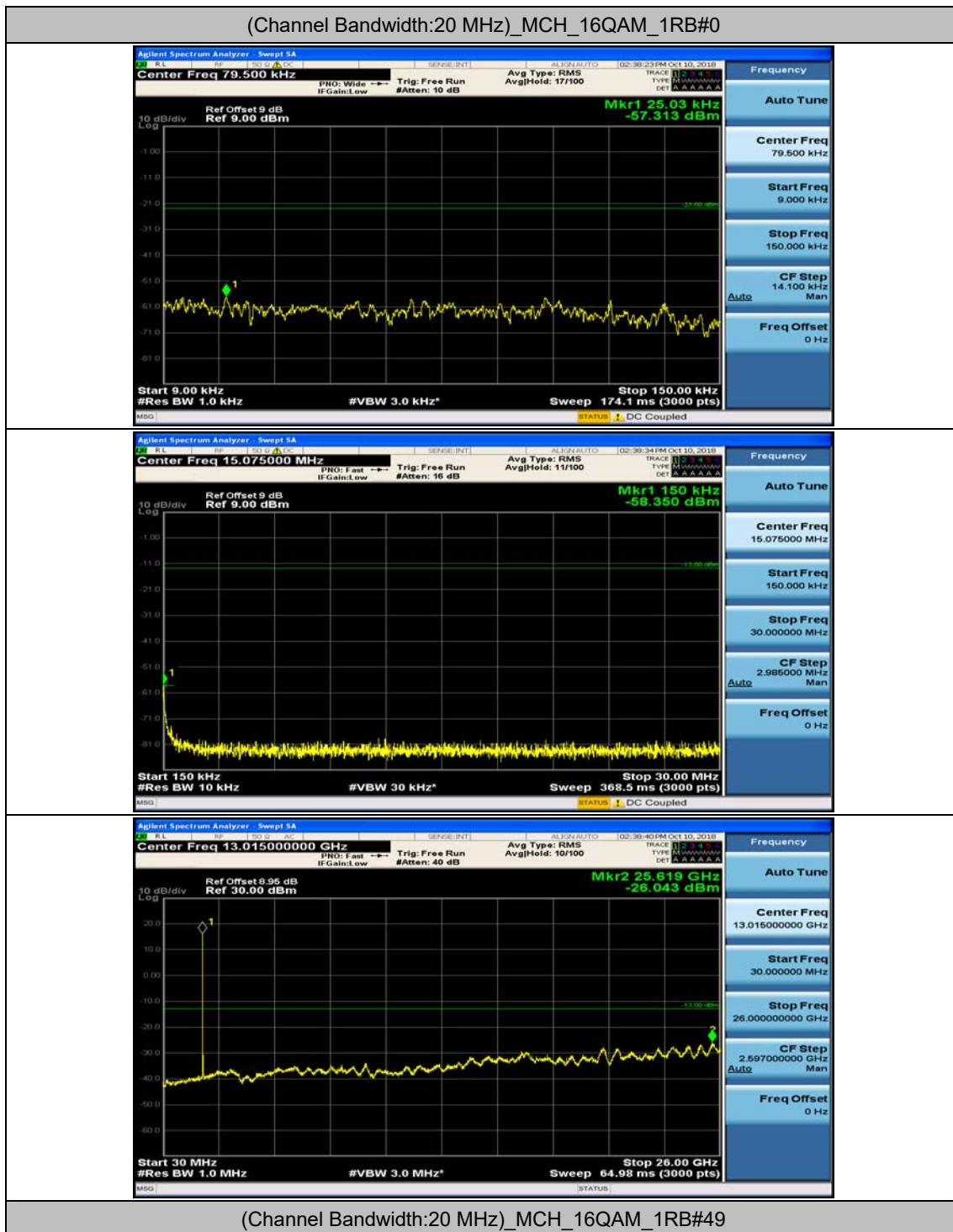


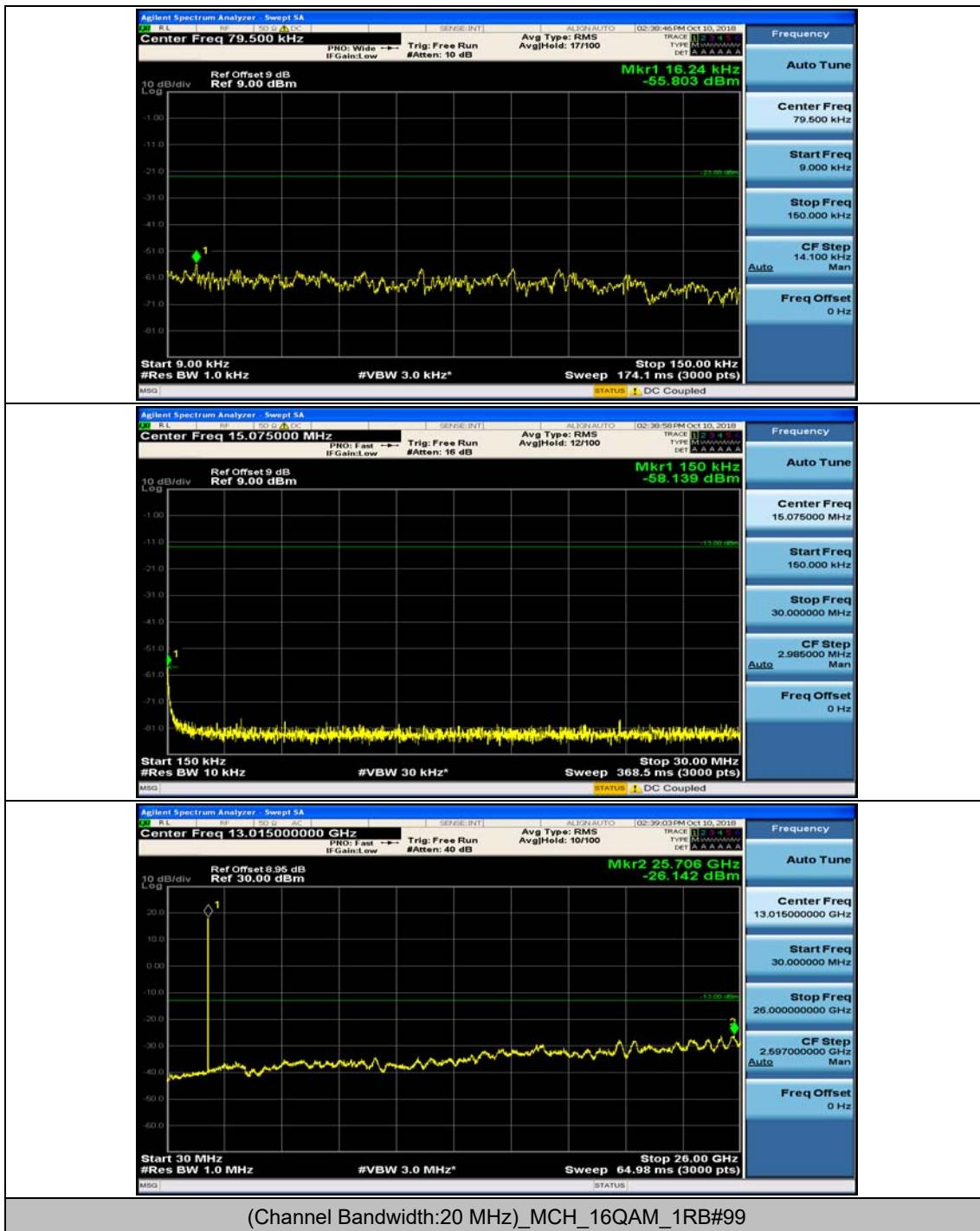


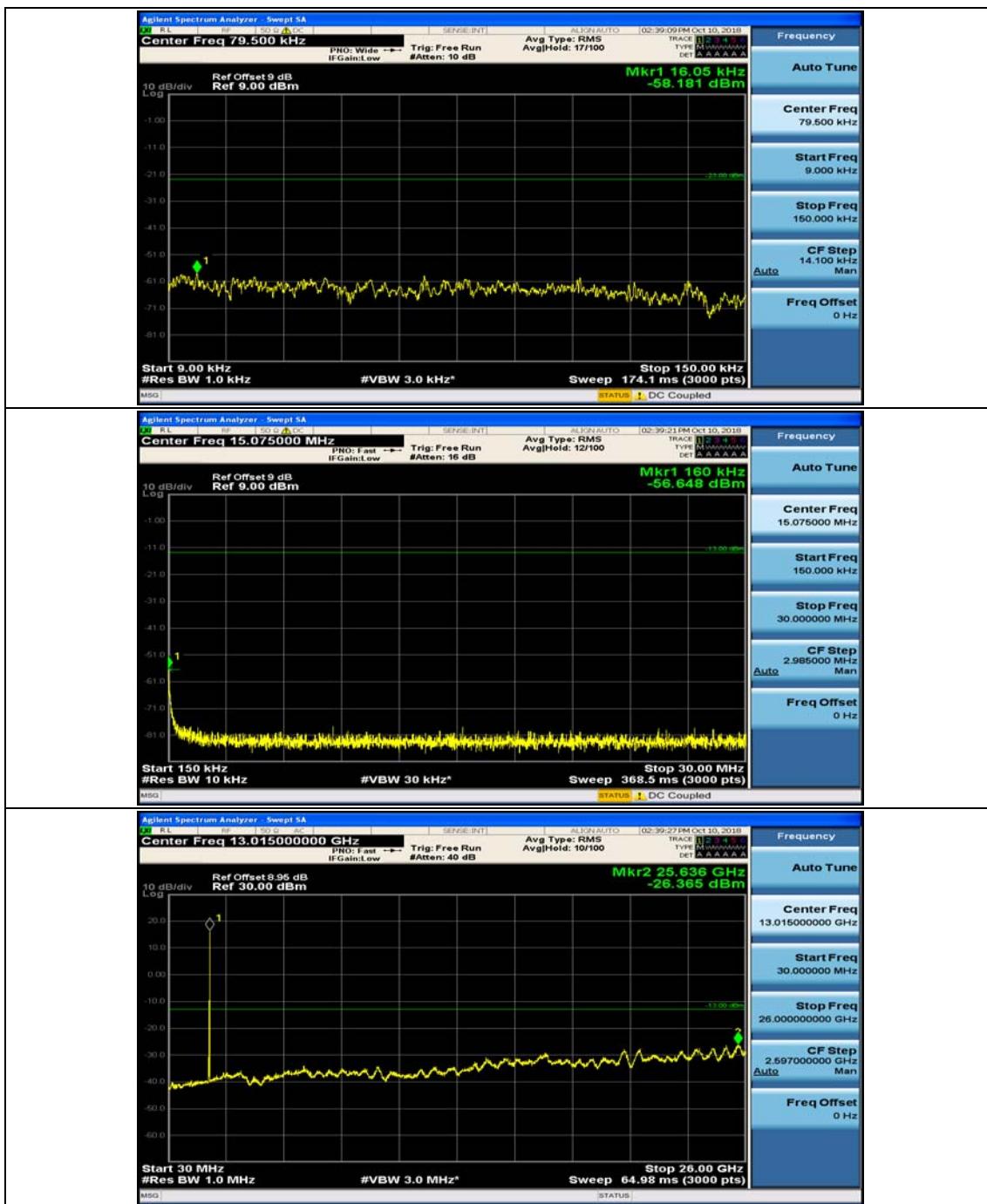


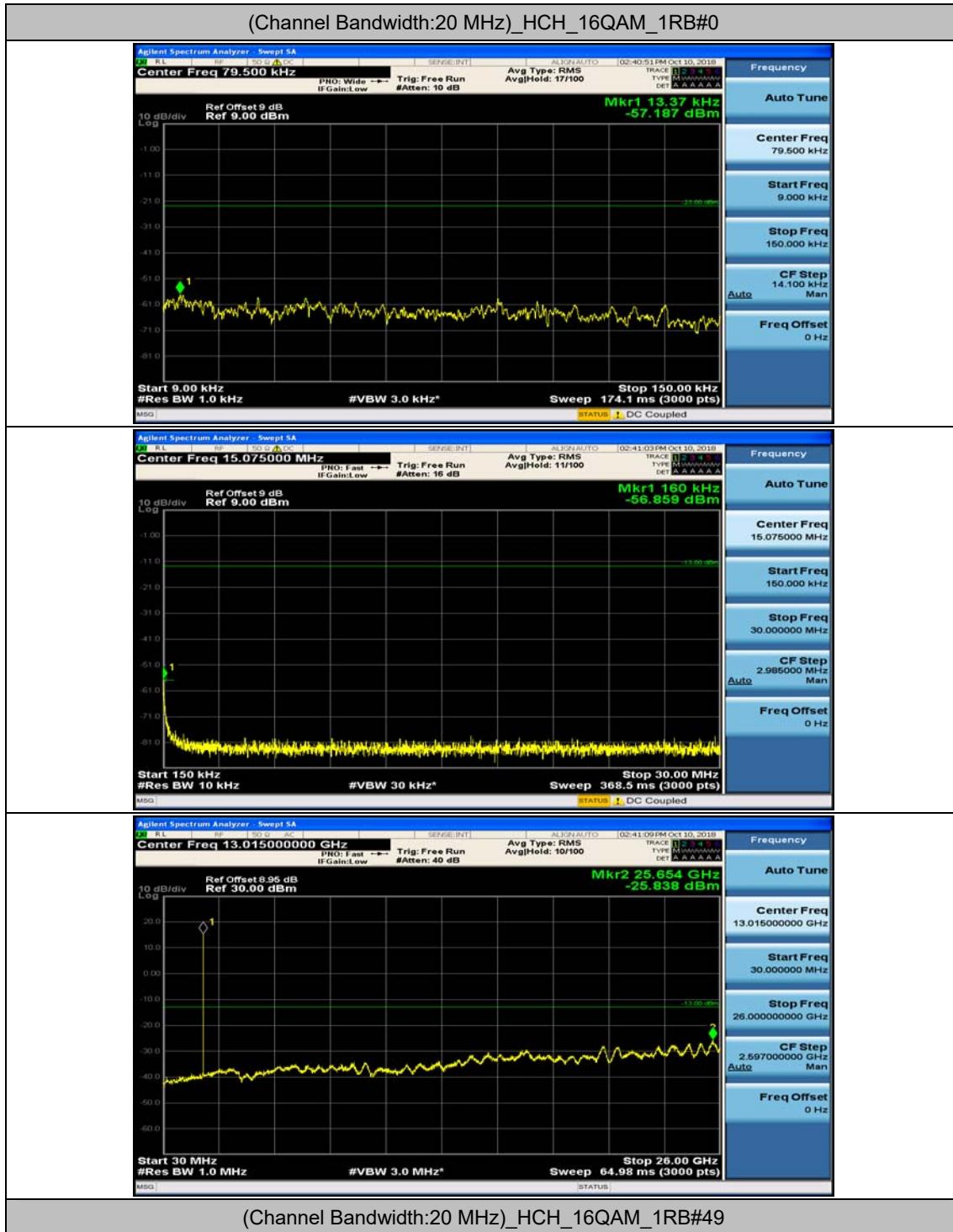


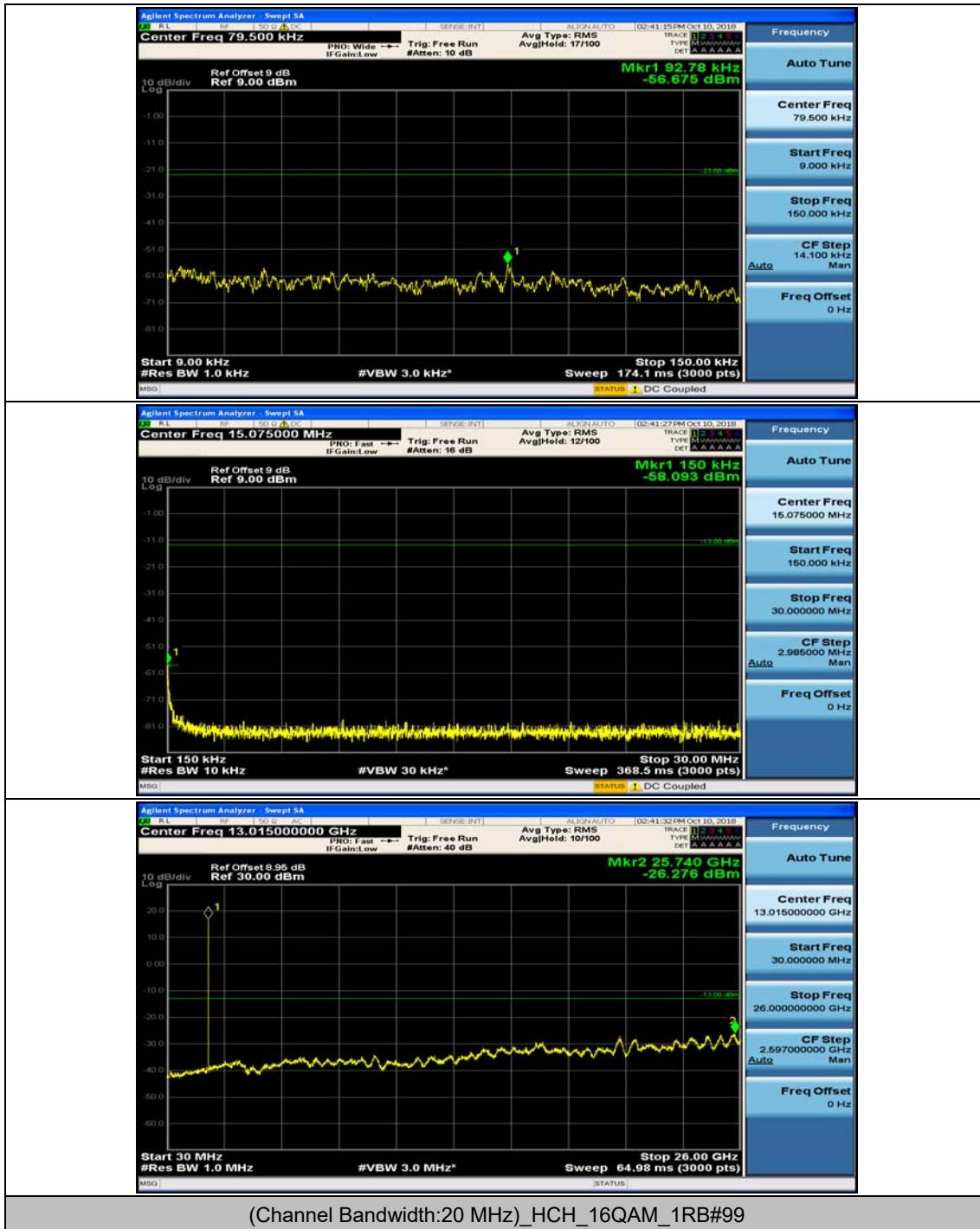


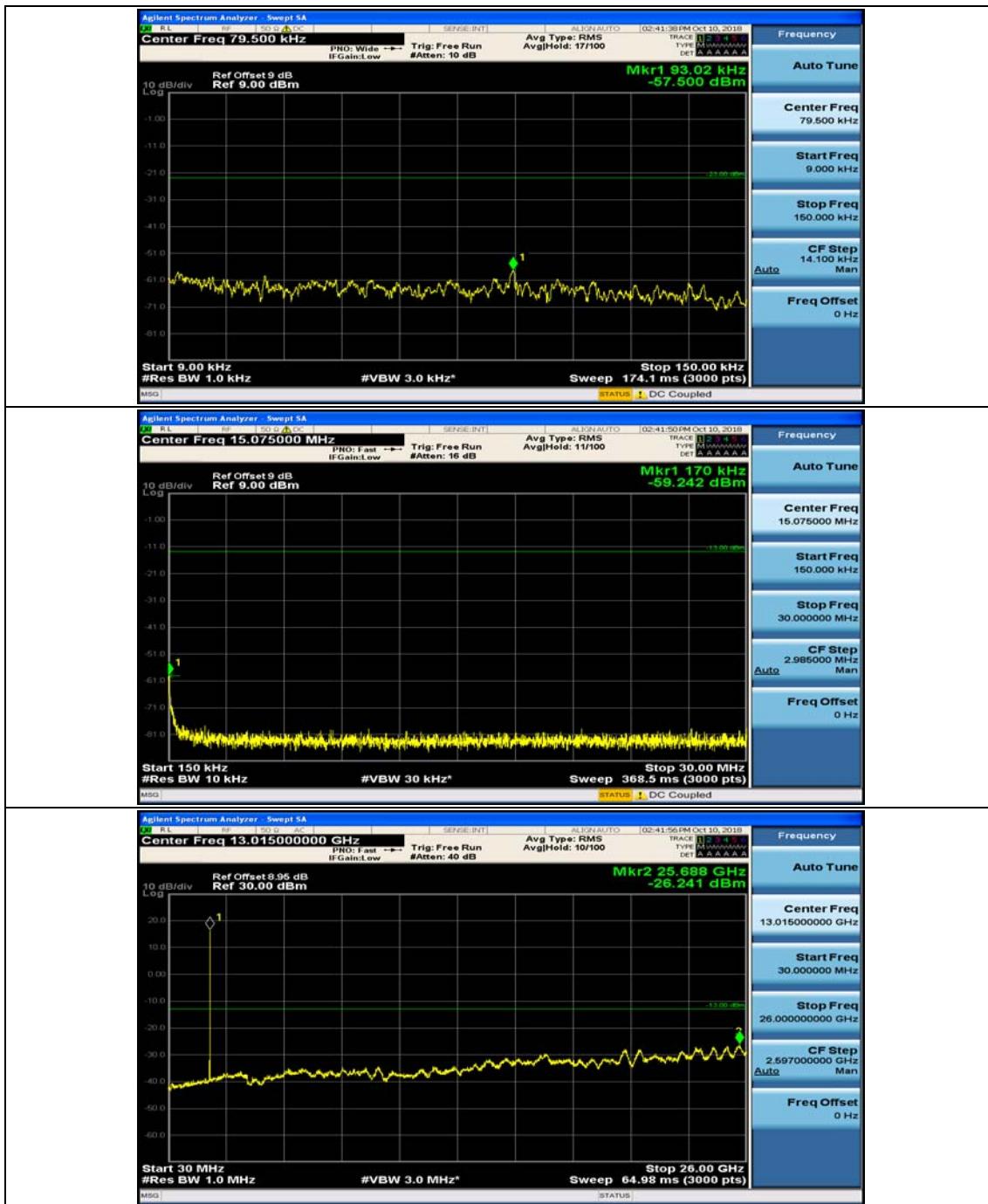












## Appendix F: Frequency Stability

### Test Result

#### Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	3.52	0.001902	± 2.5	PASS
		VN	TN	-0.08	-0.000043	± 2.5	PASS
		VH	TN	-0.75	-0.000405	± 2.5	PASS
	MCH	VL	TN	-0.44	-0.000234	± 2.5	PASS
		VN	TN	-0.14	-0.000074	± 2.5	PASS
		VH	TN	1.52	0.000809	± 2.5	PASS
	HCH	VL	TN	2.25	0.001178	± 2.5	PASS
		VN	TN	4.17	0.002184	± 2.5	PASS
		VH	TN	1.48	0.000775	± 2.5	PASS
16QAM	LCH	VL	TN	1.26	0.000681	± 2.5	PASS
		VN	TN	3.55	0.001918	± 2.5	PASS
		VH	TN	4.68	0.002529	± 2.5	PASS
	MCH	VL	TN	3.29	0.001750	± 2.5	PASS
		VN	TN	4.9	0.002606	± 2.5	PASS
		VH	TN	3.03	0.001612	± 2.5	PASS
	HCH	VL	TN	3.34	0.001749	± 2.5	PASS
		VN	TN	0.02	0.000010	± 2.5	PASS
		VH	TN	3.87	0.002027	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.69	-0.000913	± 2.5	PASS
		VN	-20	-0.08	-0.000043	± 2.5	PASS
		VN	-10	-1.76	-0.000951	± 2.5	PASS
		VN	0	0.66	0.000357	± 2.5	PASS
		VN	10	2.4	0.001297	± 2.5	PASS
		VN	20	3.87	0.002091	± 2.5	PASS
		VN	30	4.44	0.002399	± 2.5	PASS
		VN	40	4.46	0.002410	± 2.5	PASS
		VN	50	-1	-0.000540	± 2.5	PASS
	MCH	VN	-30	-0.04	-0.000021	± 2.5	PASS

		VN	-20	1.09	0.000580	$\pm 2.5$	PASS
		VN	-10	2.55	0.001356	$\pm 2.5$	PASS
		VN	0	-1.98	-0.001053	$\pm 2.5$	PASS
		VN	10	4	0.002128	$\pm 2.5$	PASS
		VN	20	4.86	0.002585	$\pm 2.5$	PASS
		VN	30	4.64	0.002468	$\pm 2.5$	PASS
		VN	40	3.76	0.002000	$\pm 2.5$	PASS
		VN	50	1.41	0.000750	$\pm 2.5$	PASS
	HCH	VN	-30	-0.25	-0.000131	$\pm 2.5$	PASS
		VN	-20	1.99	0.001042	$\pm 2.5$	PASS
		VN	-10	0.32	0.000168	$\pm 2.5$	PASS
		VN	0	4.12	0.002158	$\pm 2.5$	PASS
		VN	10	0.46	0.000241	$\pm 2.5$	PASS
		VN	20	3.69	0.001933	$\pm 2.5$	PASS
		VN	30	-1.71	-0.000896	$\pm 2.5$	PASS
		VN	40	1.07	0.000560	$\pm 2.5$	PASS
		VN	50	1.36	0.000712	$\pm 2.5$	PASS
16QAM	LCH	VN	-30	0.73	0.000394	$\pm 2.5$	PASS
		VN	-20	2.9	0.001567	$\pm 2.5$	PASS
		VN	-10	0.92	0.000497	$\pm 2.5$	PASS
		VN	0	-1.17	-0.000632	$\pm 2.5$	PASS
		VN	10	-1.57	-0.000848	$\pm 2.5$	PASS
		VN	20	0.68	0.000367	$\pm 2.5$	PASS
		VN	30	0.31	0.000168	$\pm 2.5$	PASS
		VN	40	-0.49	-0.000265	$\pm 2.5$	PASS
		VN	50	4.14	0.002237	$\pm 2.5$	PASS
	MCH	VN	-30	3.72	0.001979	$\pm 2.5$	PASS
		VN	-20	2.81	0.001495	$\pm 2.5$	PASS
		VN	-10	1.44	0.000766	$\pm 2.5$	PASS
		VN	0	0.44	0.000234	$\pm 2.5$	PASS
		VN	10	-0.92	-0.000489	$\pm 2.5$	PASS
		VN	20	0.01	0.000005	$\pm 2.5$	PASS
		VN	30	3.68	0.001957	$\pm 2.5$	PASS
		VN	40	2.51	0.001335	$\pm 2.5$	PASS
		VN	50	1.08	0.000574	$\pm 2.5$	PASS
	HCH	VN	-30	2.09	0.001095	$\pm 2.5$	PASS
		VN	-20	2.42	0.001267	$\pm 2.5$	PASS
		VN	-10	4.87	0.002551	$\pm 2.5$	PASS
		VN	0	3.54	0.001854	$\pm 2.5$	PASS
		VN	10	-1.39	-0.000728	$\pm 2.5$	PASS
		VN	20	-1.04	-0.000545	$\pm 2.5$	PASS

		VN	30	-1.22	-0.000639	$\pm 2.5$	PASS
		VN	40	4.49	0.002352	$\pm 2.5$	PASS
		VN	50	-0.65	-0.000340	$\pm 2.5$	PASS

### Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz+							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-0.47	-0.000254	$\pm 2.5$	PASS
		VN	TN	0.05	0.000027	$\pm 2.5$	PASS
		VH	TN	0.62	0.000335	$\pm 2.5$	PASS
	MCH	VL	TN	0.23	0.000122	$\pm 2.5$	PASS
		VN	TN	4.06	0.002160	$\pm 2.5$	PASS
		VH	TN	3.98	0.002117	$\pm 2.5$	PASS
	HCH	VL	TN	3.08	0.001614	$\pm 2.5$	PASS
		VN	TN	-1.06	-0.000555	$\pm 2.5$	PASS
		VH	TN	0.05	0.000026	$\pm 2.5$	PASS
16QAM	LCH	VL	TN	-1.34	-0.000724	$\pm 2.5$	PASS
		VN	TN	0.69	0.000373	$\pm 2.5$	PASS
		VH	TN	2.26	0.001221	$\pm 2.5$	PASS
	MCH	VL	TN	3.14	0.001670	$\pm 2.5$	PASS
		VN	TN	1.31	0.000697	$\pm 2.5$	PASS
		VH	TN	2.81	0.001495	$\pm 2.5$	PASS
	HCH	VL	TN	2.13	0.001116	$\pm 2.5$	PASS
		VN	TN	-1.19	-0.000624	$\pm 2.5$	PASS
		VH	TN	2.69	0.001409	$\pm 2.5$	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.79	0.000967	$\pm 2.5$	PASS
		VN	-20	-1.14	-0.000616	$\pm 2.5$	PASS
		VN	-10	4.31	0.002328	$\pm 2.5$	PASS
		VN	0	4.81	0.002598	$\pm 2.5$	PASS
		VN	10	1.5	0.000810	$\pm 2.5$	PASS
		VN	20	0.77	0.000416	$\pm 2.5$	PASS
		VN	30	-0.48	-0.000259	$\pm 2.5$	PASS
		VN	40	-0.4	-0.000216	$\pm 2.5$	PASS
		VN	50	-1.28	-0.000691	$\pm 2.5$	PASS
	MCH	VN	-30	2.69	0.001431	$\pm 2.5$	PASS
		VN	-20	3.9	0.002074	$\pm 2.5$	PASS

	HCH	VN	-10	-0.31	-0.000165	$\pm 2.5$	PASS
		VN	0	4.68	0.002489	$\pm 2.5$	PASS
		VN	10	-1.29	-0.000686	$\pm 2.5$	PASS
		VN	20	3.95	0.002101	$\pm 2.5$	PASS
		VN	30	-1.37	-0.000729	$\pm 2.5$	PASS
		VN	40	2.56	0.001362	$\pm 2.5$	PASS
		VN	50	-0.22	-0.000117	$\pm 2.5$	PASS
		VN	-30	2.45	0.001284	$\pm 2.5$	PASS
		VN	-20	-0.15	-0.000079	$\pm 2.5$	PASS
		VN	-10	-0.36	-0.000189	$\pm 2.5$	PASS
		VN	0	-0.97	-0.000508	$\pm 2.5$	PASS
		VN	10	-1.18	-0.000618	$\pm 2.5$	PASS
		VN	20	3.93	0.002059	$\pm 2.5$	PASS
		VN	30	1.6	0.000838	$\pm 2.5$	PASS
		VN	40	1.99	0.001043	$\pm 2.5$	PASS
		VN	50	-1.88	-0.000985	$\pm 2.5$	PASS
16QAM	LCH	VN	-30	2.06	0.001113	$\pm 2.5$	PASS
		VN	-20	-0.61	-0.000329	$\pm 2.5$	PASS
		VN	-10	-0.56	-0.000302	$\pm 2.5$	PASS
		VN	0	-1.1	-0.000594	$\pm 2.5$	PASS
		VN	10	3.88	0.002096	$\pm 2.5$	PASS
		VN	20	3.17	0.001712	$\pm 2.5$	PASS
		VN	30	3.39	0.001831	$\pm 2.5$	PASS
		VN	40	0.2	0.000108	$\pm 2.5$	PASS
		VN	50	0.95	0.000513	$\pm 2.5$	PASS
	MCH	VN	-30	-1.07	-0.000569	$\pm 2.5$	PASS
		VN	-20	4.07	0.002165	$\pm 2.5$	PASS
		VN	-10	-0.65	-0.000346	$\pm 2.5$	PASS
		VN	0	-0.16	-0.000085	$\pm 2.5$	PASS
		VN	10	2.26	0.001202	$\pm 2.5$	PASS
		VN	20	0.05	0.000027	$\pm 2.5$	PASS
		VN	30	-0.93	-0.000495	$\pm 2.5$	PASS
	HCH	VN	40	2.83	0.001505	$\pm 2.5$	PASS
		VN	50	1.62	0.000862	$\pm 2.5$	PASS
		VN	-30	1.4	0.000734	$\pm 2.5$	PASS
		VN	-20	0.34	0.000178	$\pm 2.5$	PASS
		VN	-10	2.5	0.001310	$\pm 2.5$	PASS
		VN	0	2.09	0.001095	$\pm 2.5$	PASS
		VN	10	1.92	0.001006	$\pm 2.5$	PASS
		VN	20	4.08	0.002138	$\pm 2.5$	PASS
		VN	30	-1	-0.000524	$\pm 2.5$	PASS

		VN	40	2.01	0.001053	$\pm 2.5$	PASS
		VN	50	-1.99	-0.001043	$\pm 2.5$	PASS

## 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	2.95	0.001592	$\pm 2.5$	PASS
		VN	TN	0.94	0.000507	$\pm 2.5$	PASS
		VH	TN	1.26	0.000680	$\pm 2.5$	PASS
	MCH	VL	TN	2.55	0.001356	$\pm 2.5$	PASS
		VN	TN	0.97	0.000516	$\pm 2.5$	PASS
		VH	TN	-0.12	-0.000064	$\pm 2.5$	PASS
	HCH	VL	TN	-1.17	-0.000613	$\pm 2.5$	PASS
		VN	TN	-1.76	-0.000923	$\pm 2.5$	PASS
		VH	TN	4.3	0.002254	$\pm 2.5$	PASS
16QAM	LCH	VL	TN	4.51	0.002435	$\pm 2.5$	PASS
		VN	TN	0.5	0.000270	$\pm 2.5$	PASS
		VH	TN	1.11	0.000599	$\pm 2.5$	PASS
	MCH	VL	TN	0.07	0.000037	$\pm 2.5$	PASS
		VN	TN	-0.69	-0.000367	$\pm 2.5$	PASS
		VH	TN	3.56	0.001894	$\pm 2.5$	PASS
	HCH	VL	TN	2.15	0.001127	$\pm 2.5$	PASS
		VN	TN	3.8	0.001992	$\pm 2.5$	PASS
		VH	TN	2.9	0.001520	$\pm 2.5$	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.05	0.002186	$\pm 2.5$	PASS
		VN	-20	0.53	0.000286	$\pm 2.5$	PASS
		VN	-10	-1.32	-0.000713	$\pm 2.5$	PASS
		VN	0	0.82	0.000443	$\pm 2.5$	PASS
		VN	10	2.23	0.001204	$\pm 2.5$	PASS
		VN	20	4.19	0.002262	$\pm 2.5$	PASS
		VN	30	-0.95	-0.000513	$\pm 2.5$	PASS
		VN	40	4.64	0.002505	$\pm 2.5$	PASS
		VN	50	-0.46	-0.000248	$\pm 2.5$	PASS
	MCH	VN	-30	2.97	0.001580	$\pm 2.5$	PASS
		VN	-20	1.13	0.000601	$\pm 2.5$	PASS
		VN	-10	4.55	0.002420	$\pm 2.5$	PASS

	HCH	VN	0	-1.84	-0.000979	$\pm 2.5$	PASS
		VN	10	4.1	0.002181	$\pm 2.5$	PASS
		VN	20	-0.21	-0.000112	$\pm 2.5$	PASS
		VN	30	3.27	0.001739	$\pm 2.5$	PASS
		VN	40	2.59	0.001378	$\pm 2.5$	PASS
		VN	50	-0.67	-0.000356	$\pm 2.5$	PASS
		VN	-30	-0.97	-0.000509	$\pm 2.5$	PASS
		VN	-20	-0.44	-0.000231	$\pm 2.5$	PASS
		VN	-10	4.49	0.002354	$\pm 2.5$	PASS
		VN	0	-0.65	-0.000341	$\pm 2.5$	PASS
16QAM	LCH	VN	10	-1.26	-0.000661	$\pm 2.5$	PASS
		VN	20	0.83	0.000435	$\pm 2.5$	PASS
		VN	30	0.98	0.000514	$\pm 2.5$	PASS
		VN	40	3.82	0.002003	$\pm 2.5$	PASS
		VN	50	1.37	0.000718	$\pm 2.5$	PASS
		VN	-30	3.05	0.001646	$\pm 2.5$	PASS
		VN	-20	2.42	0.001306	$\pm 2.5$	PASS
		VN	-10	4.14	0.002235	$\pm 2.5$	PASS
		VN	0	3.77	0.002035	$\pm 2.5$	PASS
	MCH	VN	10	2.61	0.001409	$\pm 2.5$	PASS
		VN	20	1.39	0.000750	$\pm 2.5$	PASS
		VN	30	-1.87	-0.001009	$\pm 2.5$	PASS
		VN	40	1.93	0.001042	$\pm 2.5$	PASS
		VN	50	4.3	0.002321	$\pm 2.5$	PASS
		VN	-30	-1.43	-0.000761	$\pm 2.5$	PASS
		VN	-20	1.71	0.000910	$\pm 2.5$	PASS
		VN	-10	-0.21	-0.000112	$\pm 2.5$	PASS
		VN	0	3.8	0.002021	$\pm 2.5$	PASS
	HCH	VN	10	4.67	0.002484	$\pm 2.5$	PASS
		VN	20	0.71	0.000378	$\pm 2.5$	PASS
		VN	30	-0.07	-0.000037	$\pm 2.5$	PASS
		VN	40	2.77	0.001473	$\pm 2.5$	PASS
		VN	50	5	0.002660	$\pm 2.5$	PASS
		VN	-30	2.38	0.001248	$\pm 2.5$	PASS
		VN	-20	2.5	0.001311	$\pm 2.5$	PASS
		VN	-10	3.4	0.001782	$\pm 2.5$	PASS
		VN	0	2.32	0.001216	$\pm 2.5$	PASS

		VN	50	1.65	0.000865	$\pm 2.5$	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	4.51	0.002431	$\pm 2.5$	PASS
		VN	TN	0.07	0.000038	$\pm 2.5$	PASS
		VH	TN	1.65	0.000889	$\pm 2.5$	PASS
	MCH	VL	TN	-0.07	-0.000037	$\pm 2.5$	PASS
		VN	TN	0.49	0.000261	$\pm 2.5$	PASS
		VH	TN	4.2	0.002234	$\pm 2.5$	PASS
	HCH	VL	TN	-1.97	-0.001034	$\pm 2.5$	PASS
		VN	TN	4.14	0.002173	$\pm 2.5$	PASS
		VH	TN	3.7	0.001942	$\pm 2.5$	PASS
16QAM	LCH	VL	TN	1.94	0.001046	$\pm 2.5$	PASS
		VN	TN	-0.22	-0.000119	$\pm 2.5$	PASS
		VH	TN	4.37	0.002356	$\pm 2.5$	PASS
	MCH	VL	TN	-1.36	-0.000723	$\pm 2.5$	PASS
		VN	TN	1	0.000532	$\pm 2.5$	PASS
		VH	TN	-0.72	-0.000383	$\pm 2.5$	PASS
	HCH	VL	TN	-1.12	-0.000588	$\pm 2.5$	PASS
		VN	TN	-1.31	-0.000688	$\pm 2.5$	PASS
		VH	TN	-1.26	-0.000661	$\pm 2.5$	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	-1.16	-0.000625	$\pm 2.5$	PASS
		VN	-20	2.65	0.001429	$\pm 2.5$	PASS
		VN	-10	-0.97	-0.000523	$\pm 2.5$	PASS
		VN	0	1.5	0.000809	$\pm 2.5$	PASS
		VN	10	-0.16	-0.000086	$\pm 2.5$	PASS
		VN	20	2.4	0.001294	$\pm 2.5$	PASS
		VN	30	4.57	0.002464	$\pm 2.5$	PASS
		VN	40	0.92	0.000496	$\pm 2.5$	PASS
		VN	50	-0.69	-0.000372	$\pm 2.5$	PASS
	MCH	VN	-30	1.19	0.000633	$\pm 2.5$	PASS
		VN	-20	4.88	0.002596	$\pm 2.5$	PASS
		VN	-10	4.18	0.002223	$\pm 2.5$	PASS
		VN	0	1.44	0.000766	$\pm 2.5$	PASS

		VN	10	-0.86	-0.000457	$\pm 2.5$	PASS
		VN	20	2.97	0.001580	$\pm 2.5$	PASS
		VN	30	0.64	0.000340	$\pm 2.5$	PASS
		VN	40	4.71	0.002505	$\pm 2.5$	PASS
		VN	50	3.98	0.002117	$\pm 2.5$	PASS
		VN	-30	-1.39	-0.000730	$\pm 2.5$	PASS
		VN	-20	1.13	0.000593	$\pm 2.5$	PASS
		VN	-10	4.83	0.002535	$\pm 2.5$	PASS
		VN	0	3.29	0.001727	$\pm 2.5$	PASS
		VN	10	-0.16	-0.000084	$\pm 2.5$	PASS
	HCH	VN	20	0.06	0.000031	$\pm 2.5$	PASS
		VN	30	2.78	0.001459	$\pm 2.5$	PASS
		VN	40	0.9	0.000472	$\pm 2.5$	PASS
		VN	50	2.1	0.001102	$\pm 2.5$	PASS
		VN	-30	0.81	0.000437	$\pm 2.5$	PASS
		VN	-20	4.9	0.002642	$\pm 2.5$	PASS
		VN	-10	-0.9	-0.000485	$\pm 2.5$	PASS
		VN	0	2.72	0.001466	$\pm 2.5$	PASS
		VN	10	0.08	0.000043	$\pm 2.5$	PASS
		VN	20	1.2	0.000647	$\pm 2.5$	PASS
	LCH	VN	30	2.53	0.001364	$\pm 2.5$	PASS
		VN	40	1.83	0.000987	$\pm 2.5$	PASS
		VN	50	2.62	0.001412	$\pm 2.5$	PASS
		VN	-30	4.9	0.002606	$\pm 2.5$	PASS
		VN	-20	2.26	0.001202	$\pm 2.5$	PASS
		VN	-10	-1.93	-0.001027	$\pm 2.5$	PASS
		VN	0	-0.81	-0.000431	$\pm 2.5$	PASS
		VN	10	-0.8	-0.000426	$\pm 2.5$	PASS
		VN	20	1.96	0.001043	$\pm 2.5$	PASS
		VN	30	-0.79	-0.000420	$\pm 2.5$	PASS
	MCH	VN	40	1.3	0.000691	$\pm 2.5$	PASS
		VN	50	3	0.001596	$\pm 2.5$	PASS
		VN	-30	3.59	0.001885	$\pm 2.5$	PASS
		VN	-20	-0.06	-0.000031	$\pm 2.5$	PASS
		VN	-10	0.79	0.000415	$\pm 2.5$	PASS
		VN	0	0.55	0.000289	$\pm 2.5$	PASS
		VN	10	1.67	0.000877	$\pm 2.5$	PASS
		VN	20	4.7	0.002467	$\pm 2.5$	PASS
		VN	30	4.74	0.002488	$\pm 2.5$	PASS
		VN	40	-1.57	-0.000824	$\pm 2.5$	PASS
	HCH	VN	50	1.91	0.001003	$\pm 2.5$	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	-1.02	-0.000550	± 2.5	PASS
		VN	TN	0.36	0.000194	± 2.5	PASS
		VH	TN	-1.72	-0.000927	± 2.5	PASS
	MCH	VL	TN	1.06	0.000564	± 2.5	PASS
		VN	TN	-0.3	-0.000160	± 2.5	PASS
		VH	TN	3.74	0.001989	± 2.5	PASS
	HCH	VL	TN	0.24	0.000126	± 2.5	PASS
		VN	TN	2.72	0.001428	± 2.5	PASS
		VH	TN	3.23	0.001696	± 2.5	PASS
16QAM	LCH	VL	TN	4.12	0.002221	± 2.5	PASS
		VN	TN	3.27	0.001763	± 2.5	PASS
		VH	TN	3.76	0.002027	± 2.5	PASS
	MCH	VL	TN	1.99	0.001059	± 2.5	PASS
		VN	TN	-0.77	-0.000410	± 2.5	PASS
		VH	TN	2.21	0.001176	± 2.5	PASS
	HCH	VL	TN	0.83	0.000436	± 2.5	PASS
		VN	TN	-1.69	-0.000887	± 2.5	PASS
		VH	TN	-1.24	-0.000651	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.58	0.002466	± 2.5	PASS
		VN	-20	2.15	0.001157	± 2.5	PASS
		VN	-10	-0.2	-0.000108	± 2.5	PASS
		VN	0	-0.82	-0.000441	± 2.5	PASS
		VN	10	4.91	0.002643	± 2.5	PASS
		VN	20	3	0.001615	± 2.5	PASS
		VN	30	3.79	0.002040	± 2.5	PASS
		VN	40	-1.91	-0.001028	± 2.5	PASS
		VN	50	4.23	0.002277	± 2.5	PASS
	MCH	VN	-30	3.62	0.001926	± 2.5	PASS
		VN	-20	-0.52	-0.000277	± 2.5	PASS
		VN	-10	3.9	0.002074	± 2.5	PASS
		VN	0	0.69	0.000367	± 2.5	PASS
		VN	10	2.43	0.001293	± 2.5	PASS
		VN	20	-0.31	-0.000165	± 2.5	PASS

		VN	30	-1.19	-0.000633	$\pm 2.5$	PASS
		VN	40	0.56	0.000298	$\pm 2.5$	PASS
		VN	50	3.92	0.002085	$\pm 2.5$	PASS
	HCH	VN	-30	1.18	0.000620	$\pm 2.5$	PASS
		VN	-20	-0.4	-0.000210	$\pm 2.5$	PASS
		VN	-10	4.03	0.002118	$\pm 2.5$	PASS
		VN	0	-1.08	-0.000568	$\pm 2.5$	PASS
		VN	10	2.49	0.001309	$\pm 2.5$	PASS
		VN	20	3.43	0.001803	$\pm 2.5$	PASS
		VN	30	0.28	0.000147	$\pm 2.5$	PASS
16QAM	LCH	VN	40	3.72	0.001955	$\pm 2.5$	PASS
		VN	50	0.1	0.000053	$\pm 2.5$	PASS
	MCH	VN	-30	3.91	0.002105	$\pm 2.5$	PASS
		VN	-20	-1.04	-0.000560	$\pm 2.5$	PASS
		VN	-10	3.05	0.001642	$\pm 2.5$	PASS
		VN	0	2.98	0.001604	$\pm 2.5$	PASS
		VN	10	3.16	0.001701	$\pm 2.5$	PASS
		VN	20	3.33	0.001793	$\pm 2.5$	PASS
		VN	30	4.12	0.002218	$\pm 2.5$	PASS
		VN	40	2.5	0.001346	$\pm 2.5$	PASS
		VN	50	-1.32	-0.000711	$\pm 2.5$	PASS
	HCH	VN	-30	-1.77	-0.000941	$\pm 2.5$	PASS
		VN	-20	4.11	0.002186	$\pm 2.5$	PASS
		VN	-10	-0.92	-0.000489	$\pm 2.5$	PASS
		VN	0	-1.47	-0.000782	$\pm 2.5$	PASS
		VN	10	1	0.000532	$\pm 2.5$	PASS
		VN	20	0.45	0.000239	$\pm 2.5$	PASS
		VN	30	1.87	0.000995	$\pm 2.5$	PASS
		VN	40	-1.4	-0.000745	$\pm 2.5$	PASS
		VN	50	2.05	0.001090	$\pm 2.5$	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	2.3	0.001237	± 2.5	PASS
		VN	TN	2.65	0.001425	± 2.5	PASS
		VH	TN	-1.25	-0.000672	± 2.5	PASS
	MCH	VL	TN	0.45	0.000239	± 2.5	PASS
		VN	TN	-1.32	-0.000702	± 2.5	PASS
		VH	TN	-1.25	-0.000665	± 2.5	PASS
	HCH	VL	TN	2.12	0.001116	± 2.5	PASS
		VN	TN	-1.94	-0.001021	± 2.5	PASS
		VH	TN	0.85	0.000447	± 2.5	PASS
16QAM	LCH	VL	TN	3.27	0.001758	± 2.5	PASS
		VN	TN	-0.72	-0.000387	± 2.5	PASS
		VH	TN	-1.83	-0.000984	± 2.5	PASS
	MCH	VL	TN	-1.35	-0.000718	± 2.5	PASS
		VN	TN	3.12	0.001660	± 2.5	PASS
		VH	TN	0.85	0.000452	± 2.5	PASS
	HCH	VL	TN	3.75	0.001974	± 2.5	PASS
		VN	TN	2.38	0.001253	± 2.5	PASS
		VH	TN	2.14	0.001126	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.1	0.001129	± 2.5	PASS
		VN	-20	-1.14	-0.000613	± 2.5	PASS
		VN	-10	-0.39	-0.000210	± 2.5	PASS
		VN	0	2.68	0.001441	± 2.5	PASS
		VN	10	4.88	0.002624	± 2.5	PASS
		VN	20	3.01	0.001618	± 2.5	PASS
		VN	30	-0.26	-0.000140	± 2.5	PASS
		VN	40	2.14	0.001151	± 2.5	PASS
		VN	50	-0.8	-0.000430	± 2.5	PASS
	MCH	VN	-30	-1.67	-0.000888	± 2.5	PASS
		VN	-20	-1.21	-0.000644	± 2.5	PASS
		VN	-10	3.16	0.001681	± 2.5	PASS
		VN	0	1.75	0.000931	± 2.5	PASS
		VN	10	1.01	0.000537	± 2.5	PASS
		VN	20	-0.75	-0.000399	± 2.5	PASS

	HCH	VN	30	1.86	0.000989	$\pm 2.5$	PASS
		VN	40	-0.1	-0.000053	$\pm 2.5$	PASS
		VN	50	4.91	0.002612	$\pm 2.5$	PASS
		VN	-30	3.66	0.001926	$\pm 2.5$	PASS
		VN	-20	-0.84	-0.000442	$\pm 2.5$	PASS
		VN	-10	-1.26	-0.000663	$\pm 2.5$	PASS
		VN	0	3.32	0.001747	$\pm 2.5$	PASS
		VN	10	3.08	0.001621	$\pm 2.5$	PASS
		VN	20	-1.41	-0.000742	$\pm 2.5$	PASS
		VN	30	2.95	0.001553	$\pm 2.5$	PASS
16QAM	LCH	VN	40	3.64	0.001916	$\pm 2.5$	PASS
		VN	50	0.84	0.000442	$\pm 2.5$	PASS
		VN	-30	-1.03	-0.000554	$\pm 2.5$	PASS
		VN	-20	-0.08	-0.000043	$\pm 2.5$	PASS
		VN	-10	3.78	0.002032	$\pm 2.5$	PASS
		VN	0	-0.35	-0.000188	$\pm 2.5$	PASS
		VN	10	-1.21	-0.000651	$\pm 2.5$	PASS
		VN	20	4.54	0.002441	$\pm 2.5$	PASS
		VN	30	1.55	0.000833	$\pm 2.5$	PASS
	MCH	VN	40	4.05	0.002177	$\pm 2.5$	PASS
		VN	50	3.04	0.001634	$\pm 2.5$	PASS
		VN	-30	-0.16	-0.000085	$\pm 2.5$	PASS
		VN	-20	-0.95	-0.000505	$\pm 2.5$	PASS
		VN	-10	0.13	0.000069	$\pm 2.5$	PASS
		VN	0	-0.83	-0.000441	$\pm 2.5$	PASS
		VN	10	2.33	0.001239	$\pm 2.5$	PASS
		VN	20	-0.2	-0.000106	$\pm 2.5$	PASS
		VN	30	4.16	0.002213	$\pm 2.5$	PASS
		VN	40	1.13	0.000601	$\pm 2.5$	PASS
	HCH	VN	50	2.81	0.001495	$\pm 2.5$	PASS
		VN	-30	-1.5	-0.000789	$\pm 2.5$	PASS
		VN	-20	1.72	0.000905	$\pm 2.5$	PASS
		VN	-10	3.87	0.002037	$\pm 2.5$	PASS
		VN	0	1.48	0.000779	$\pm 2.5$	PASS
		VN	10	1.98	0.001042	$\pm 2.5$	PASS
		VN	20	3.01	0.001584	$\pm 2.5$	PASS
		VN	30	0.59	0.000311	$\pm 2.5$	PASS
		VN	40	-1.45	-0.000763	$\pm 2.5$	PASS
		VN	50	-1.52	-0.000800	$\pm 2.5$	PASS