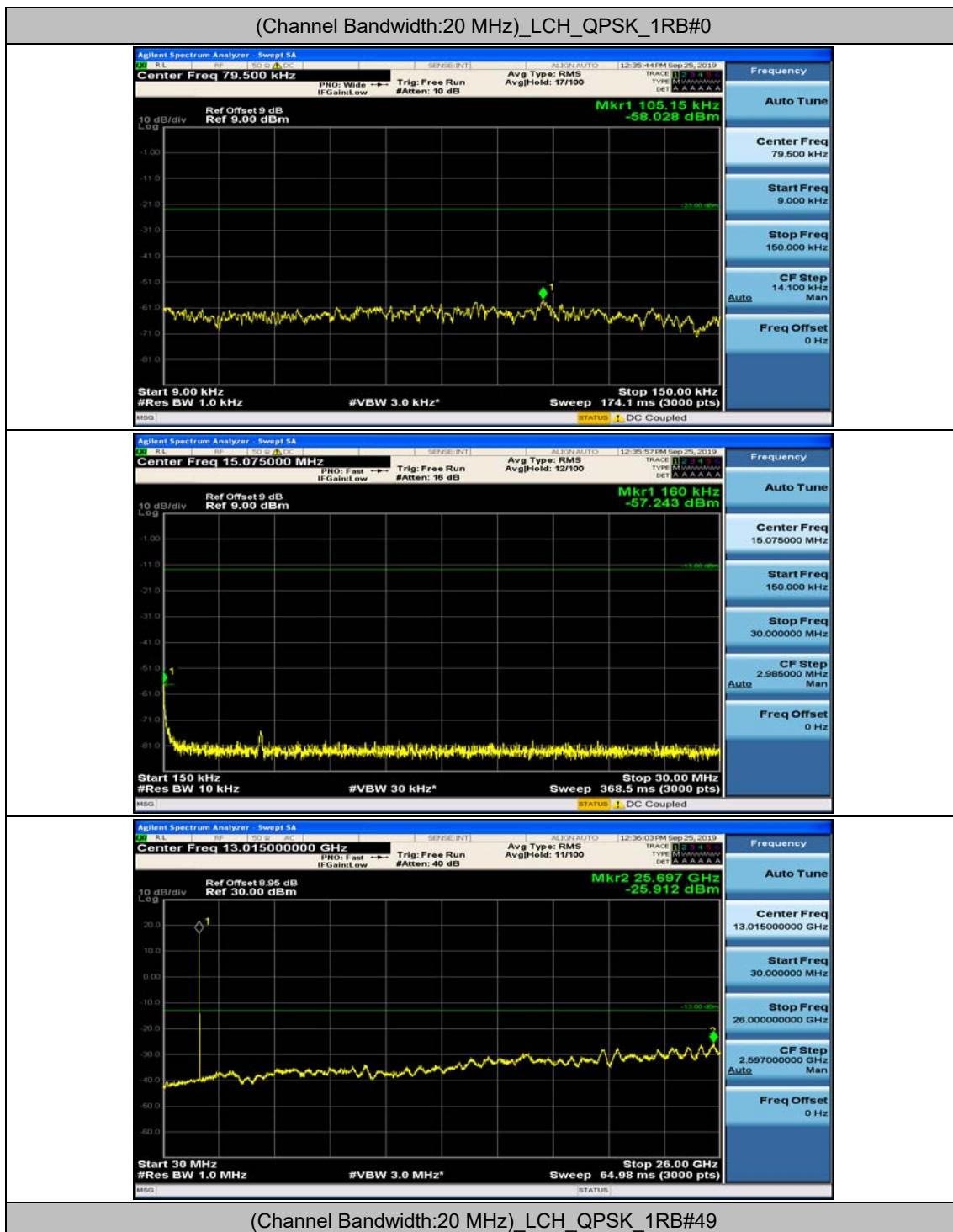
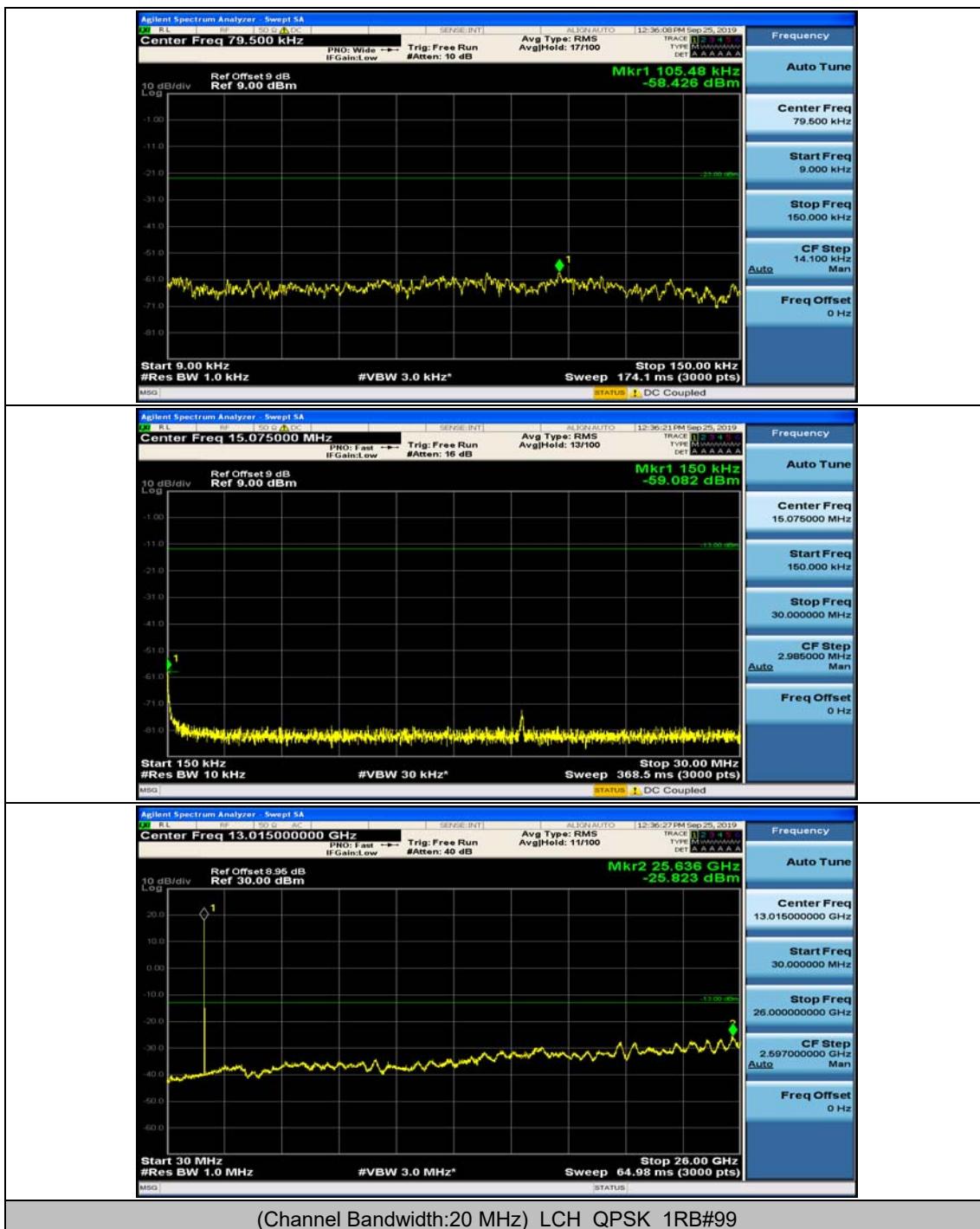
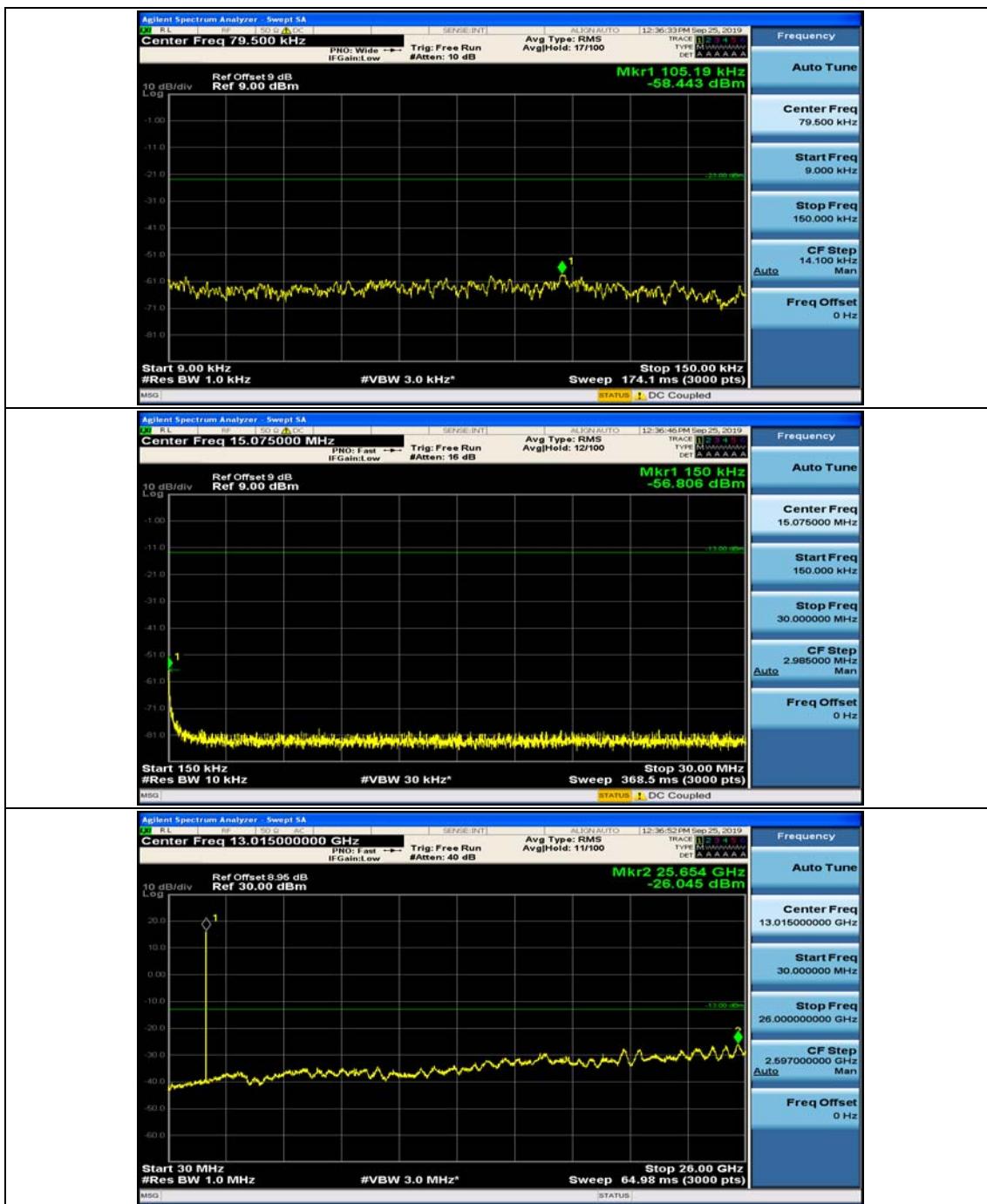
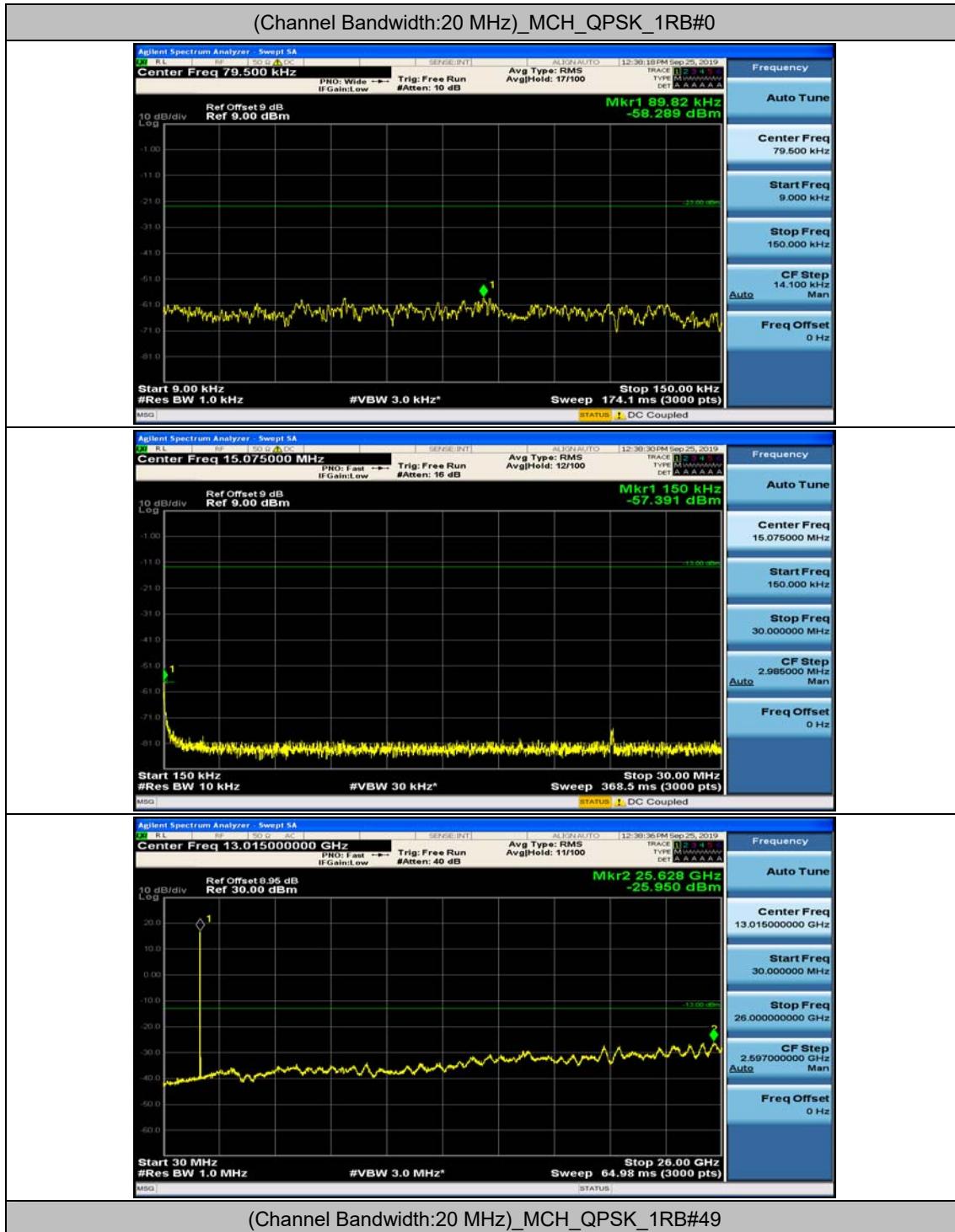


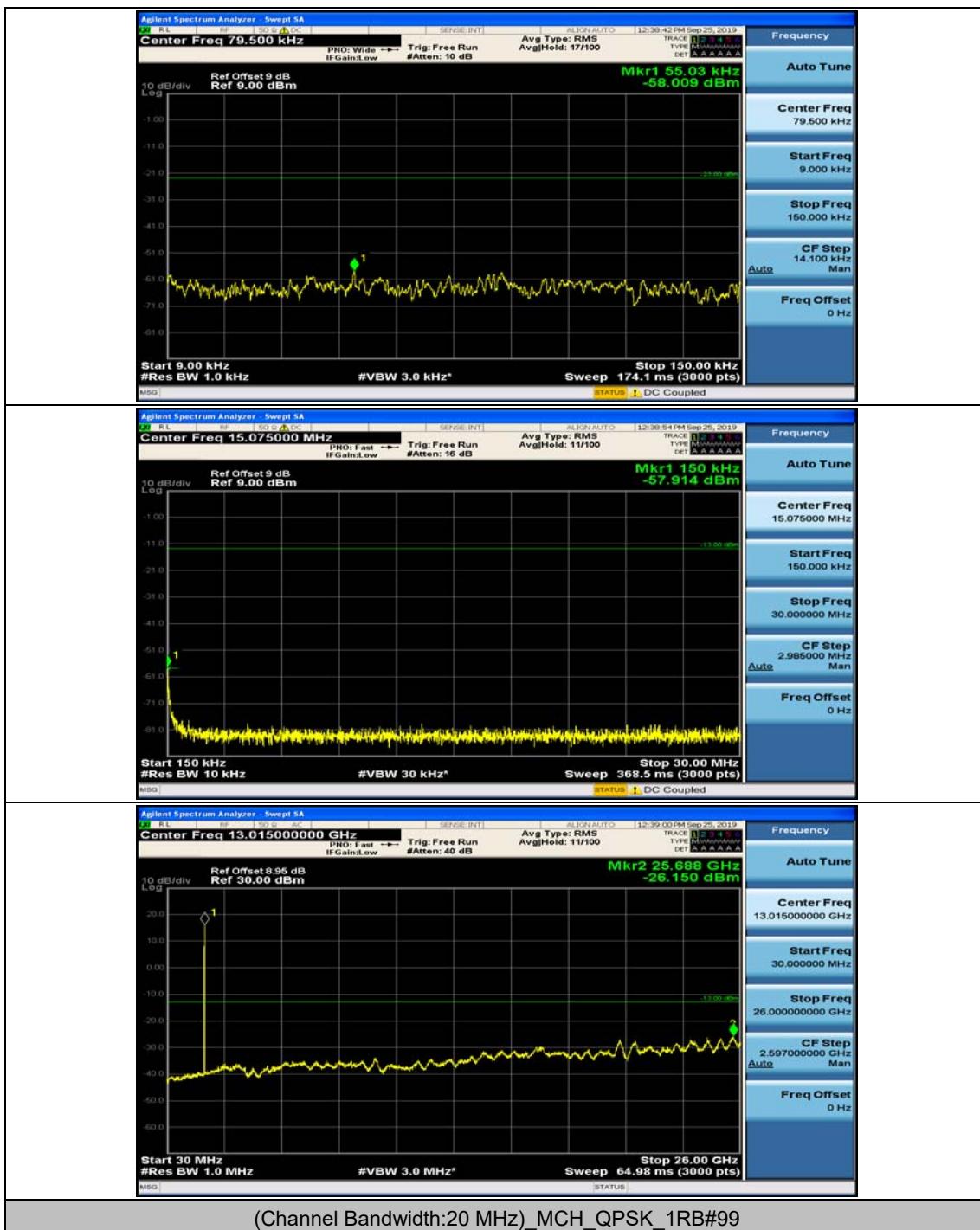
## Channel Bandwidth: 20 MHz

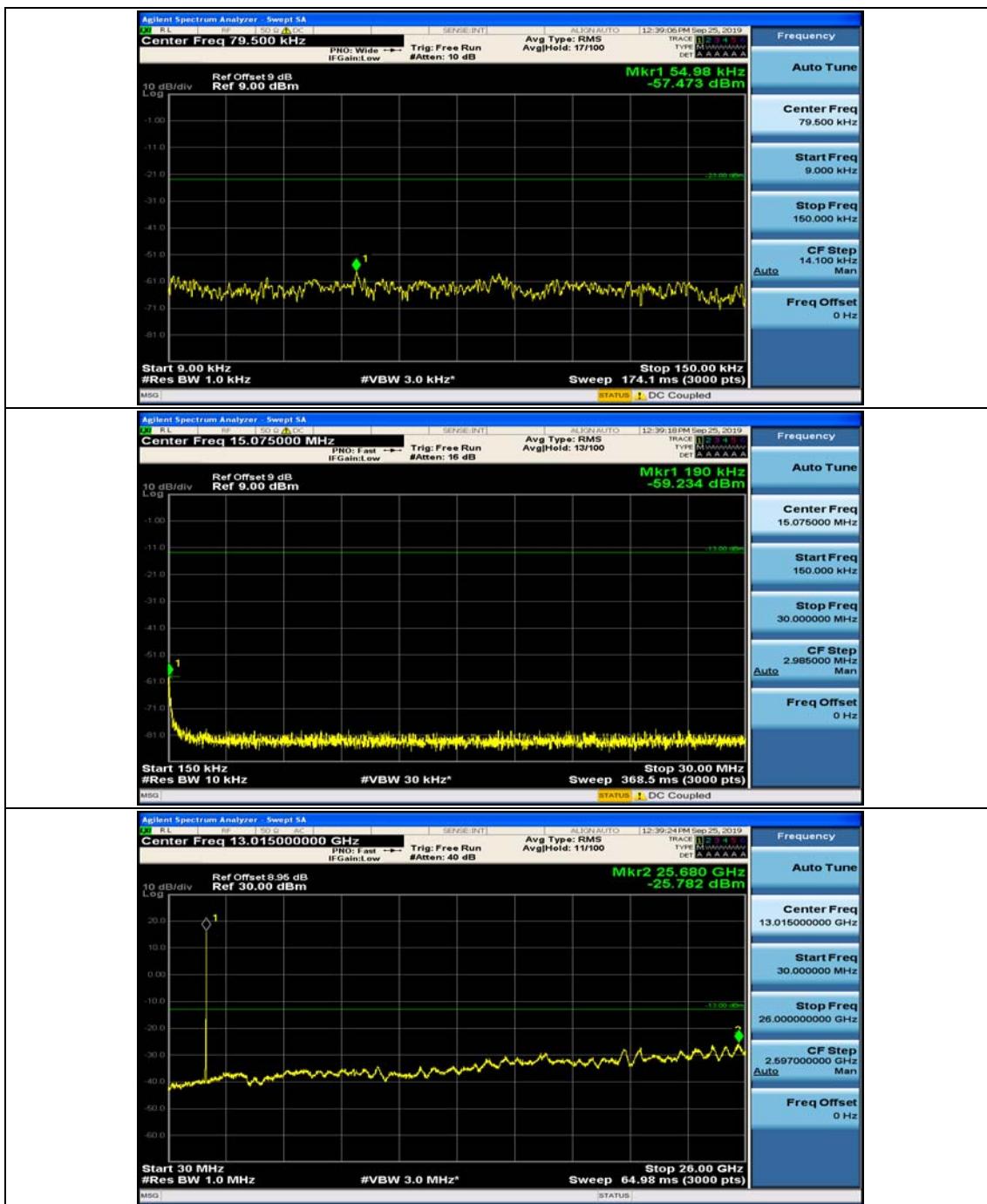


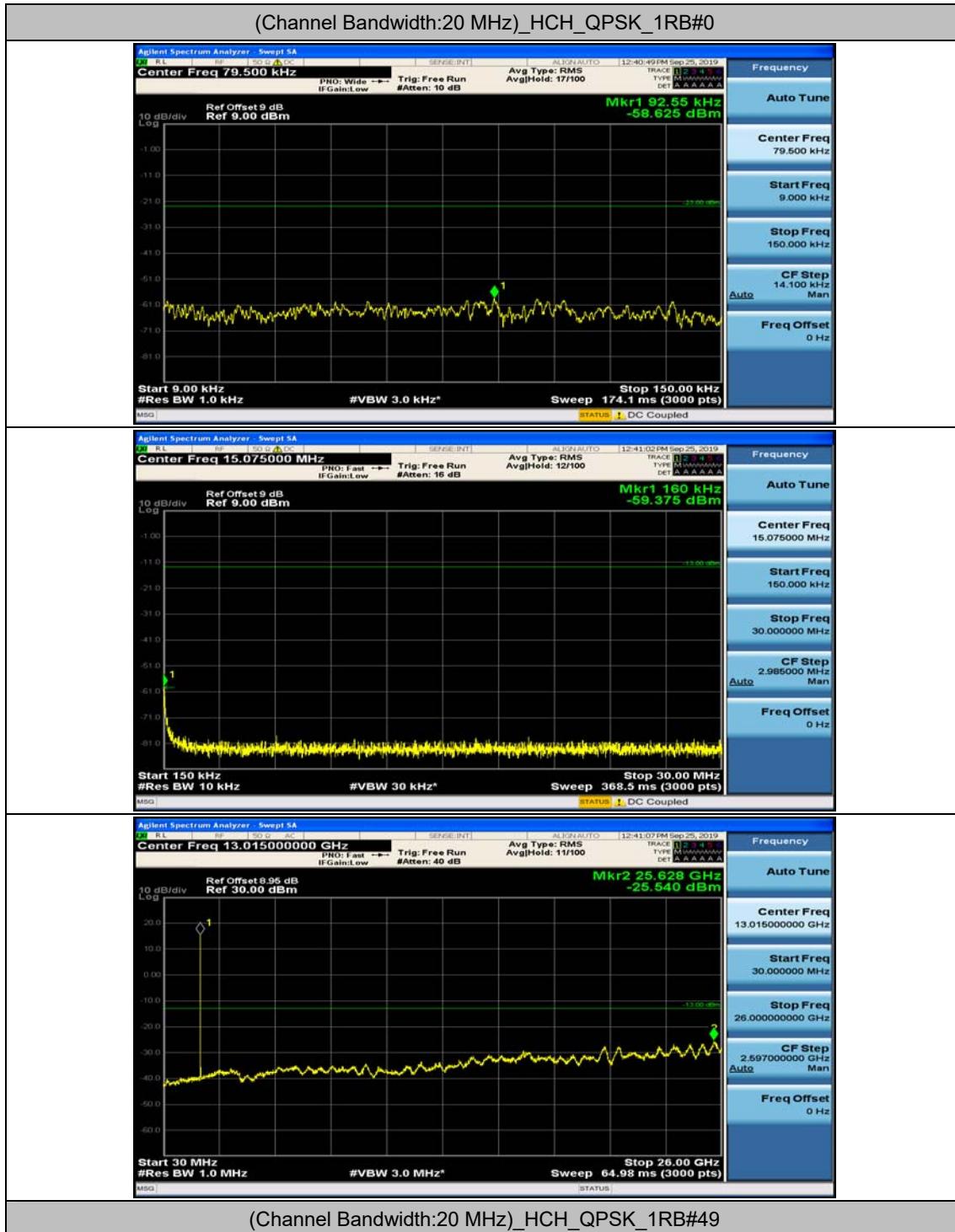


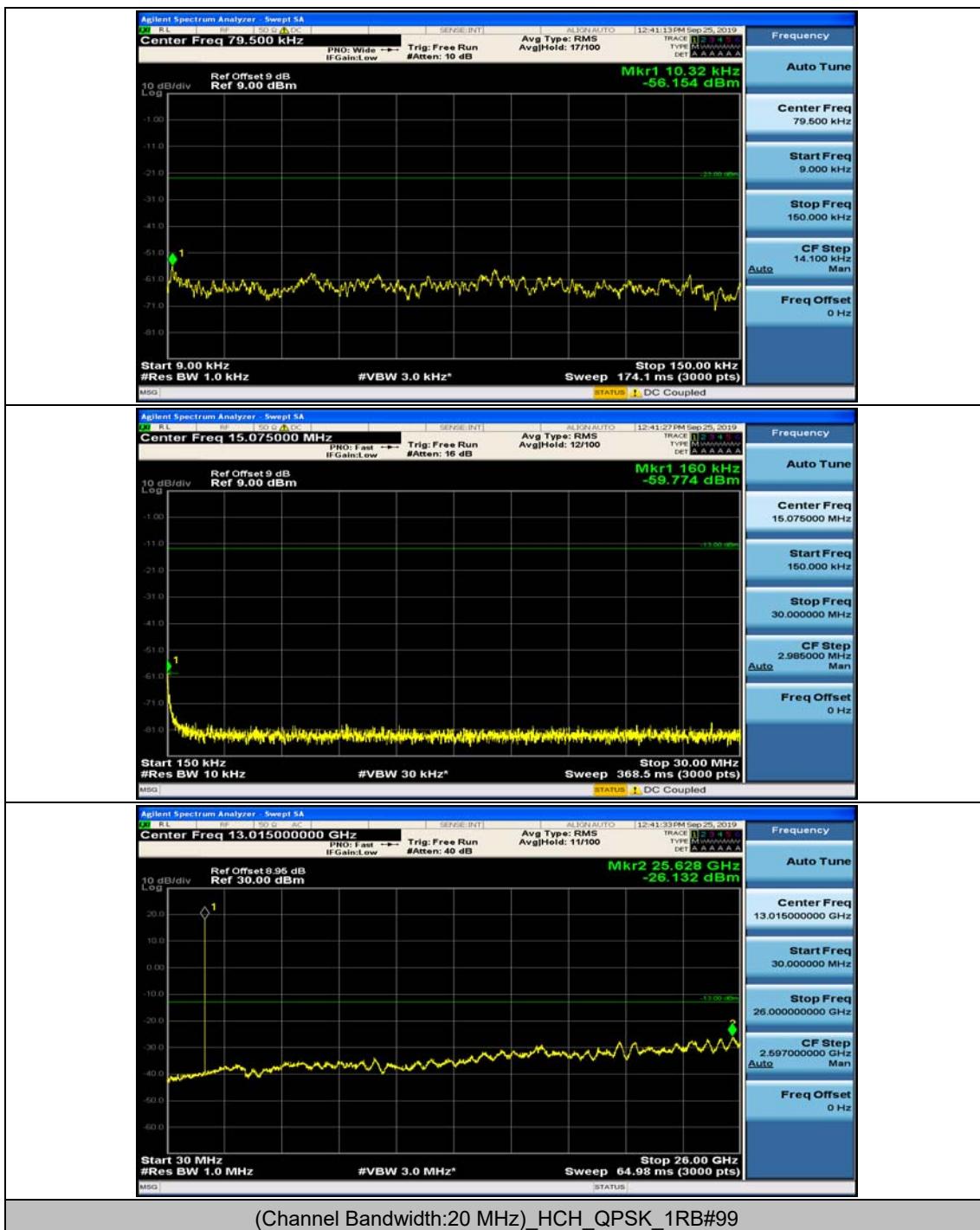


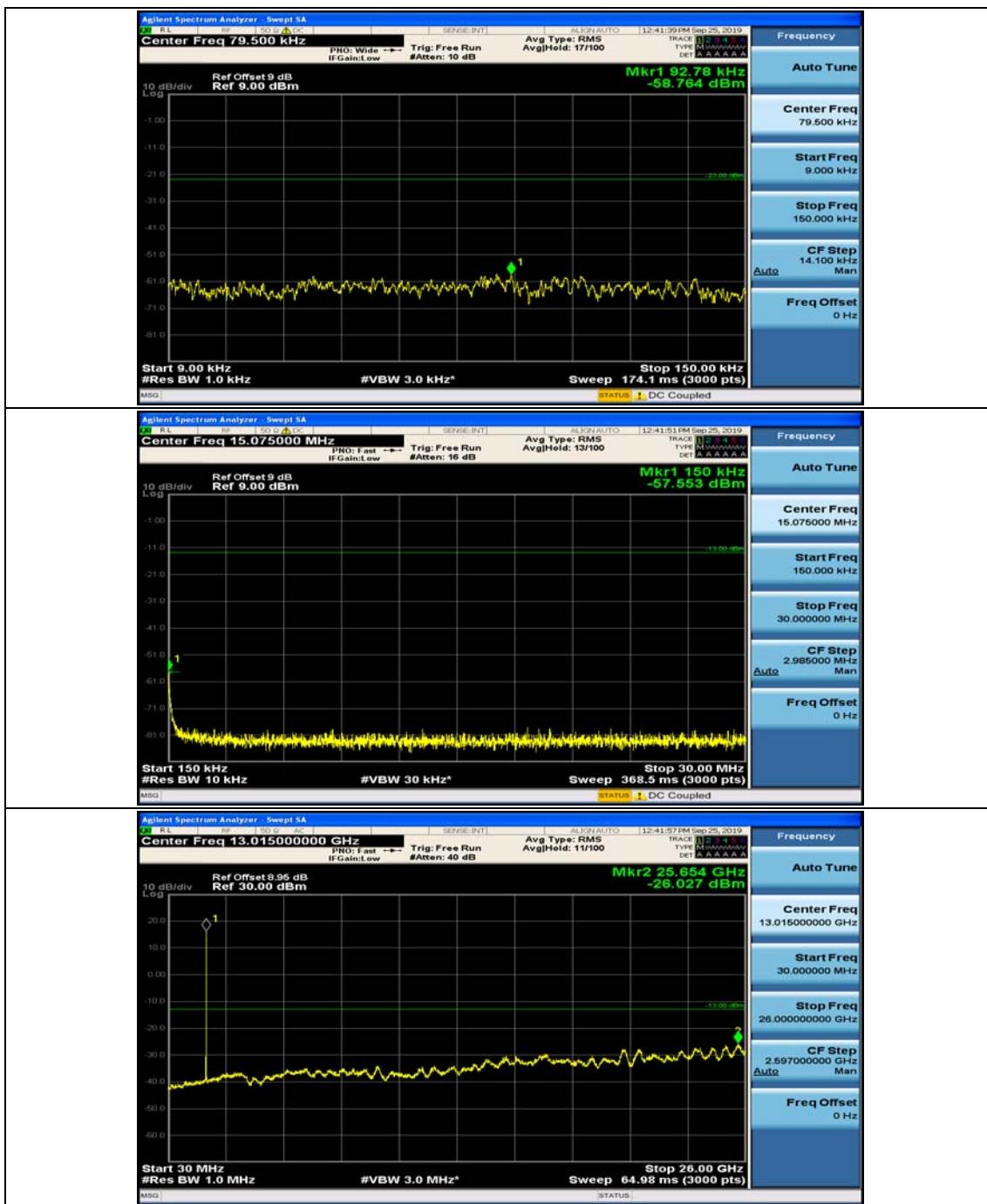


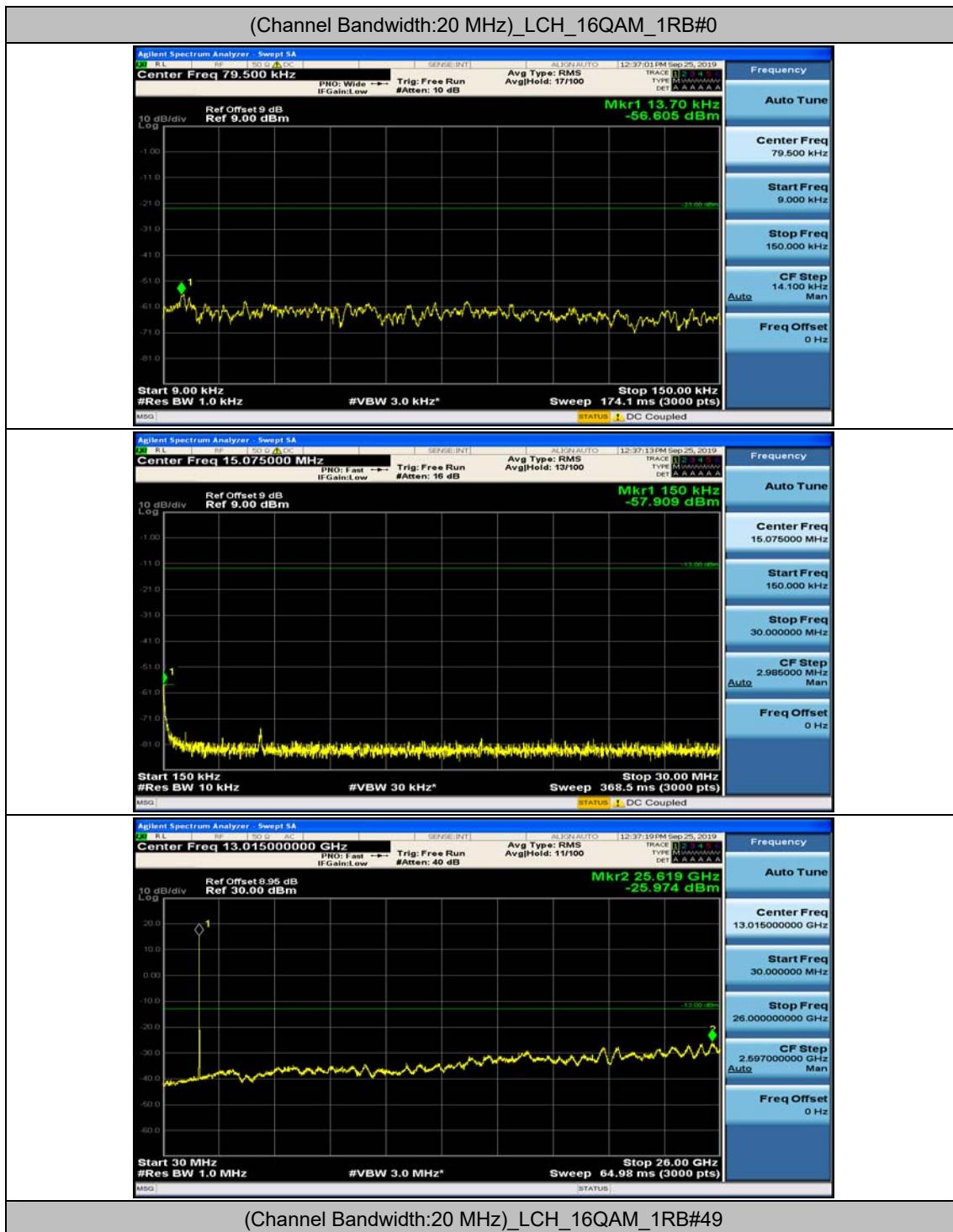


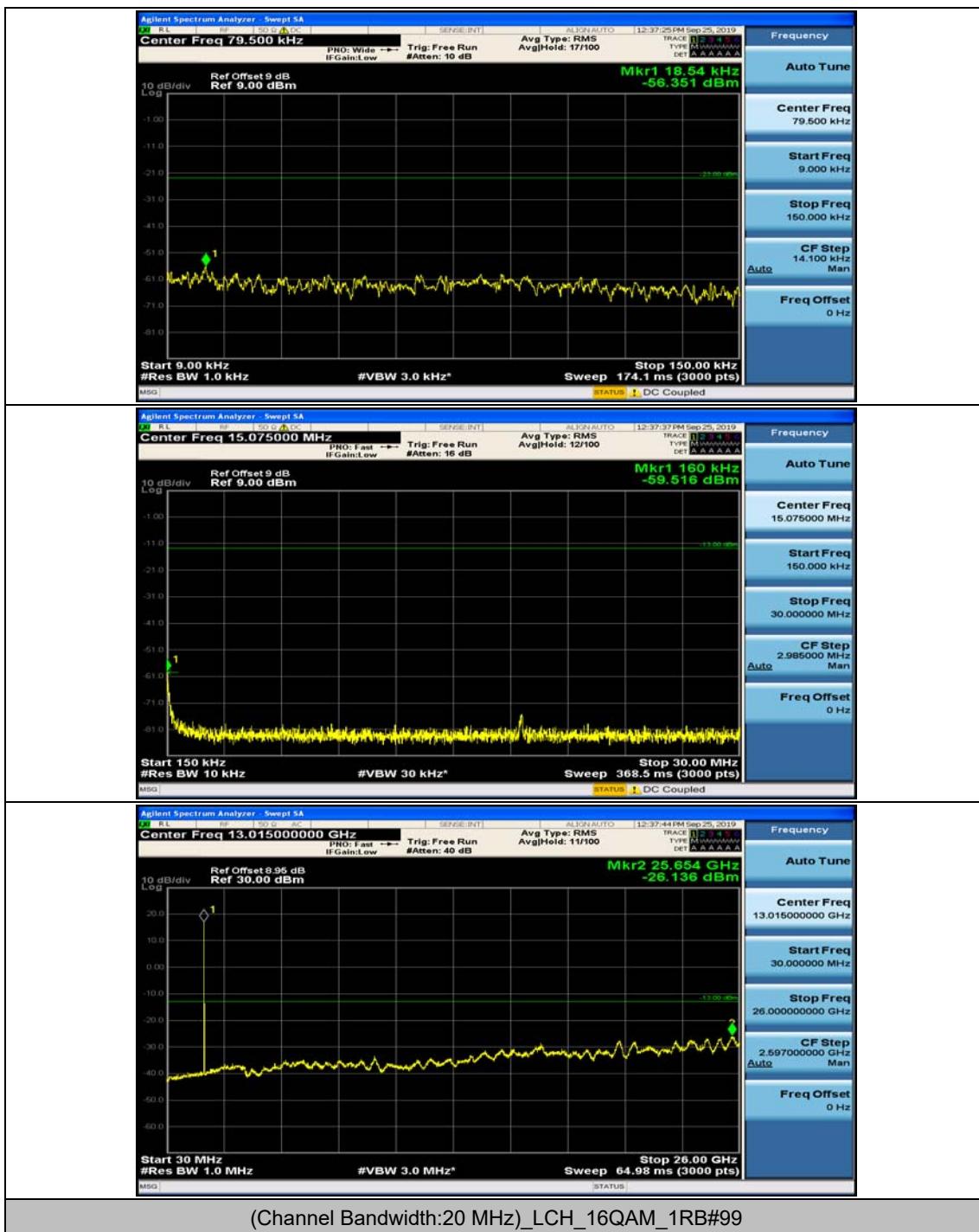


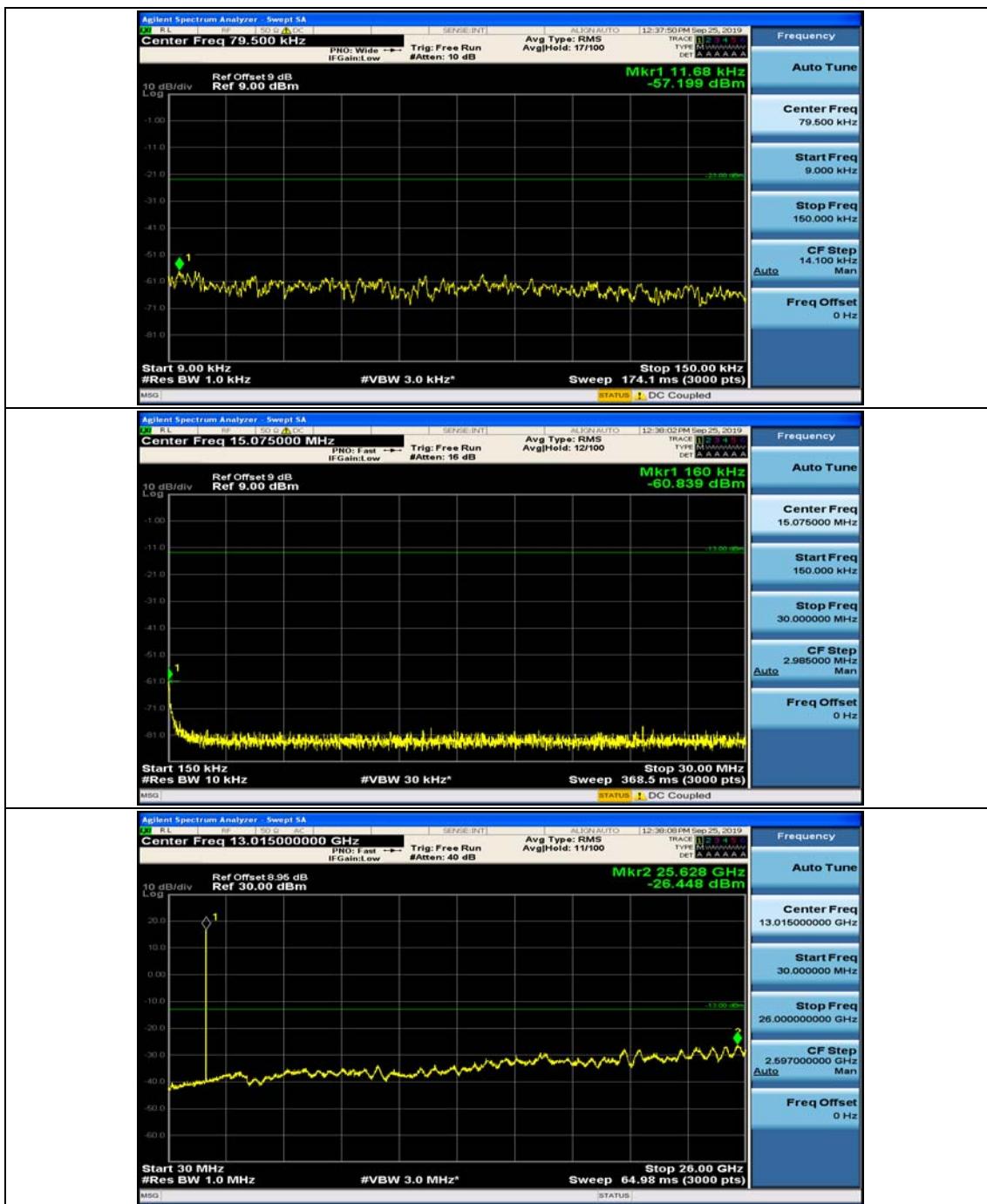


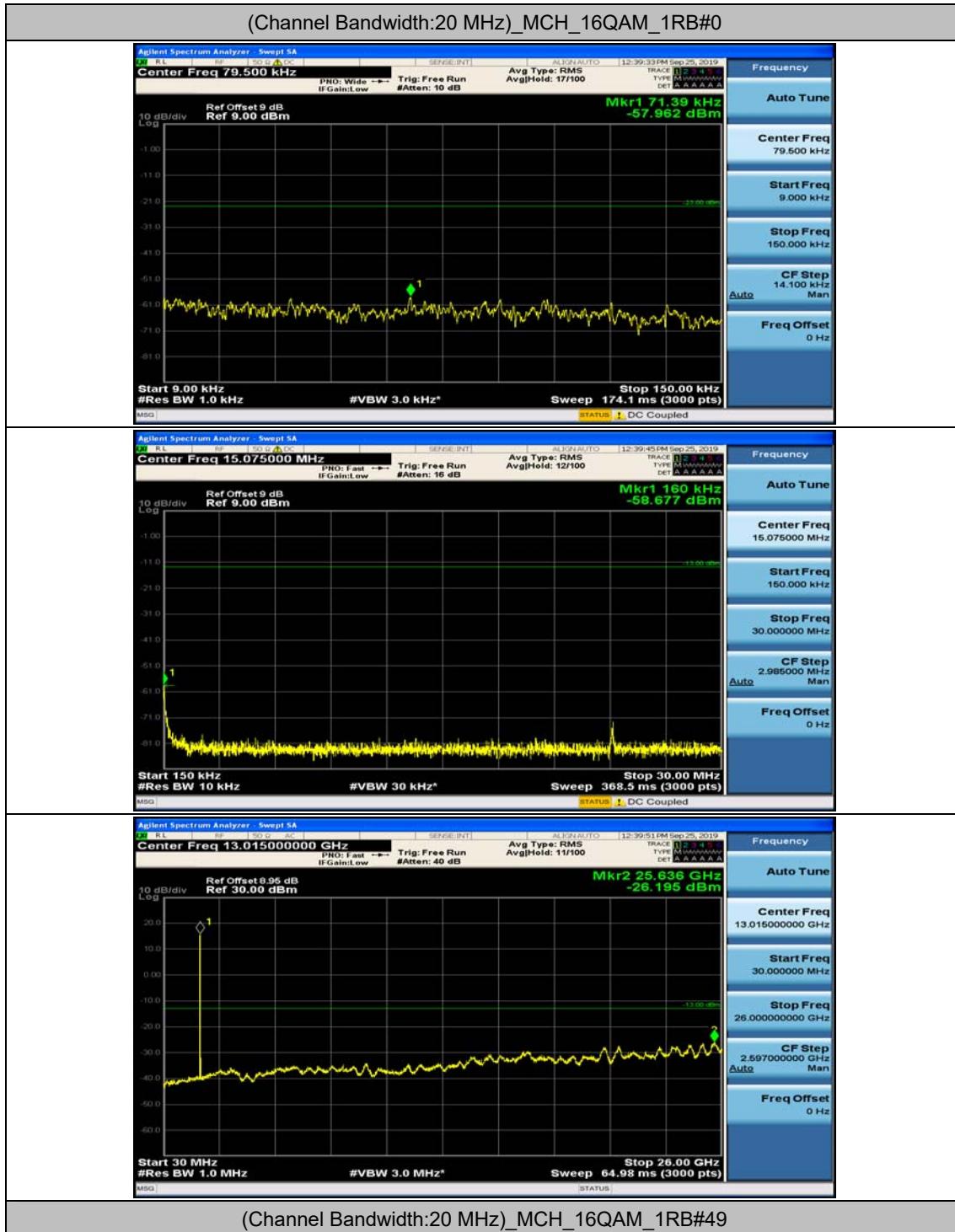


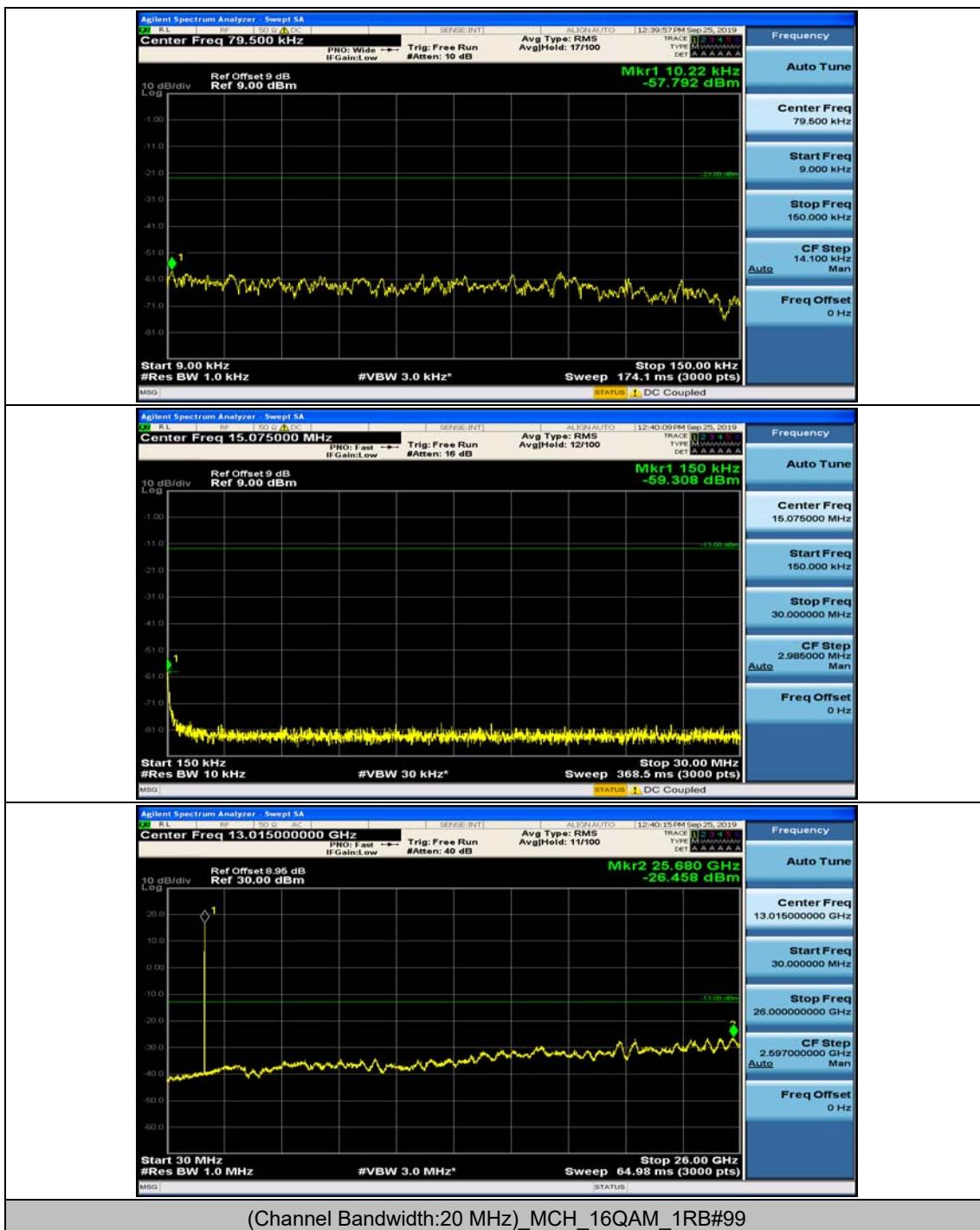


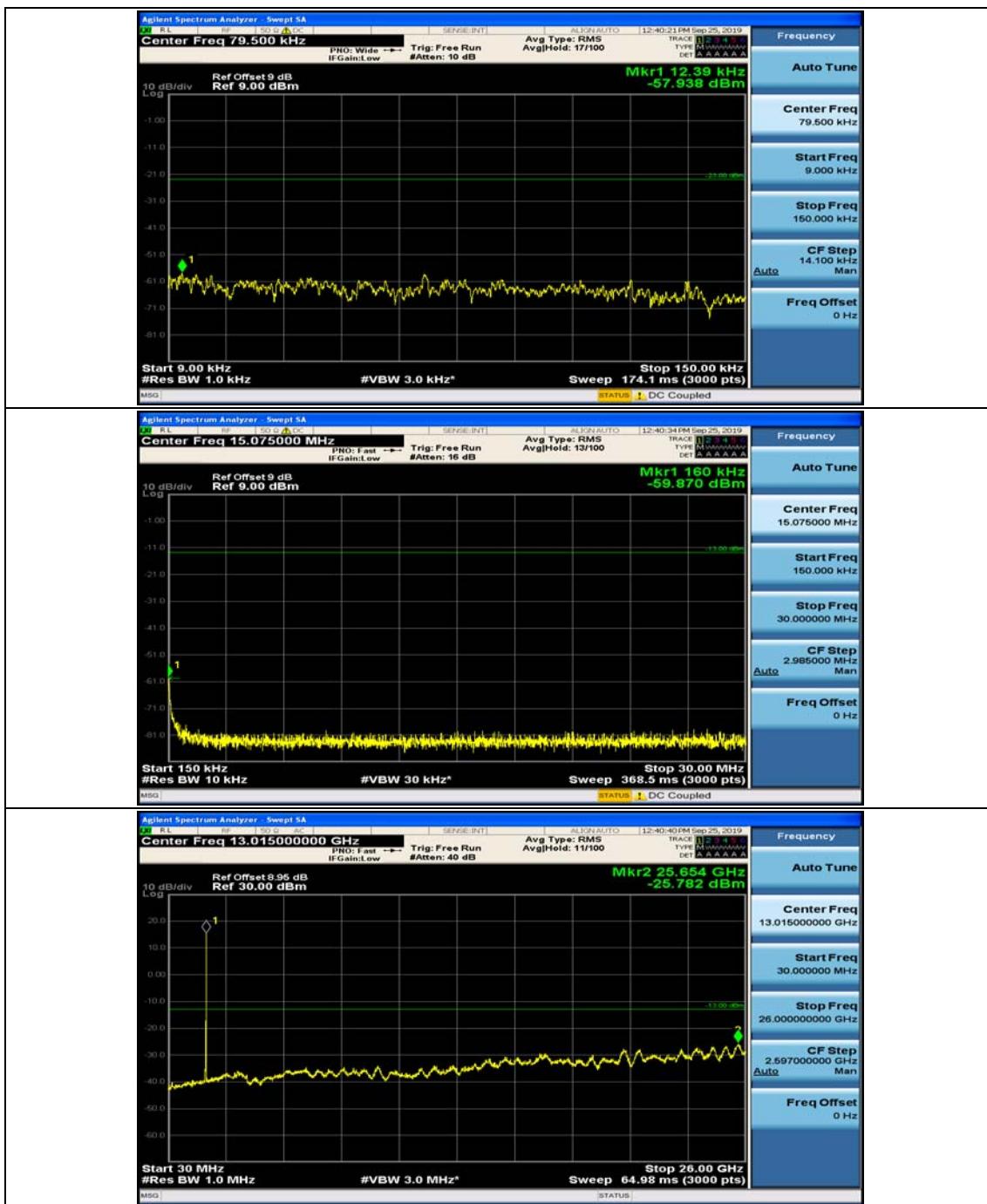


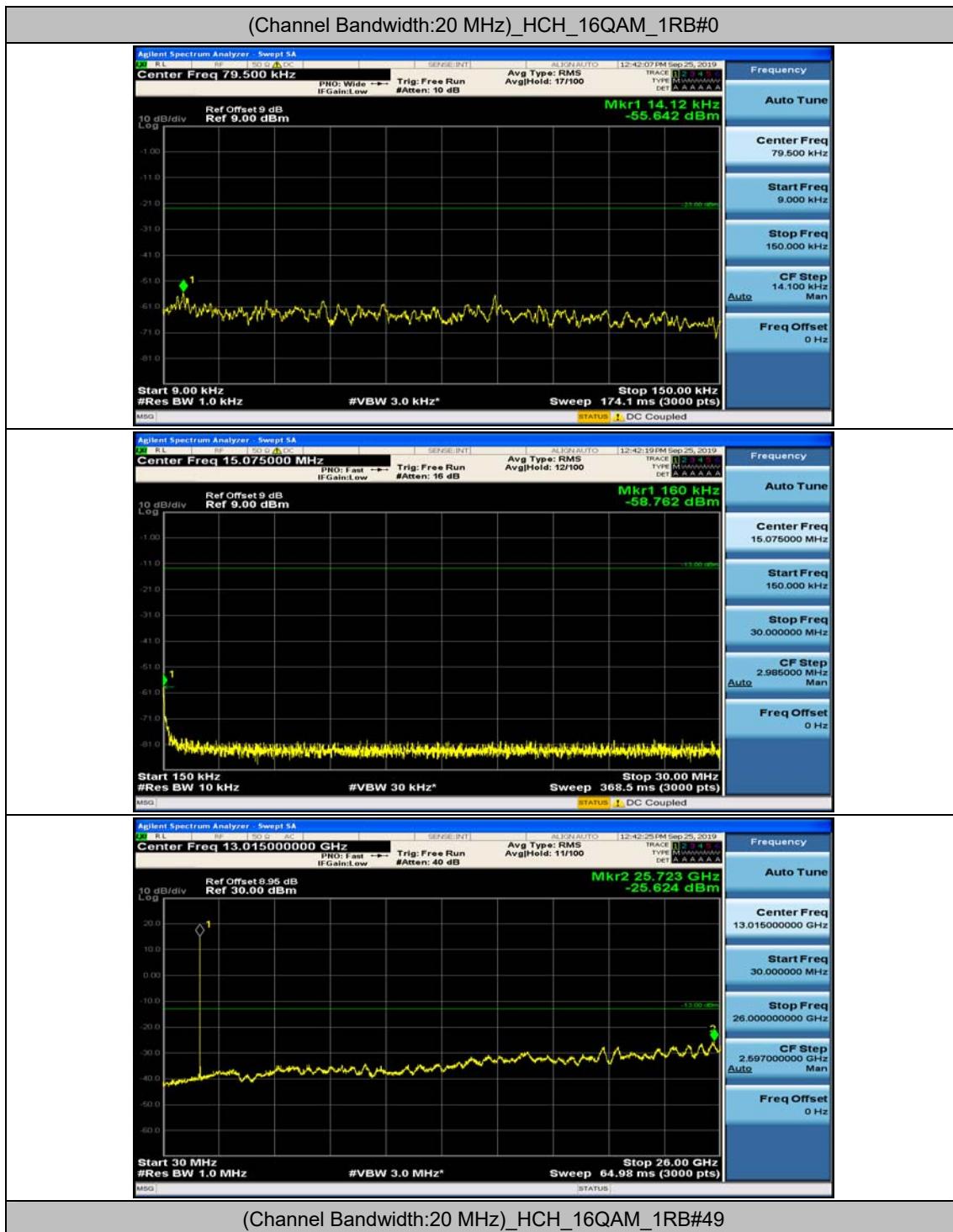


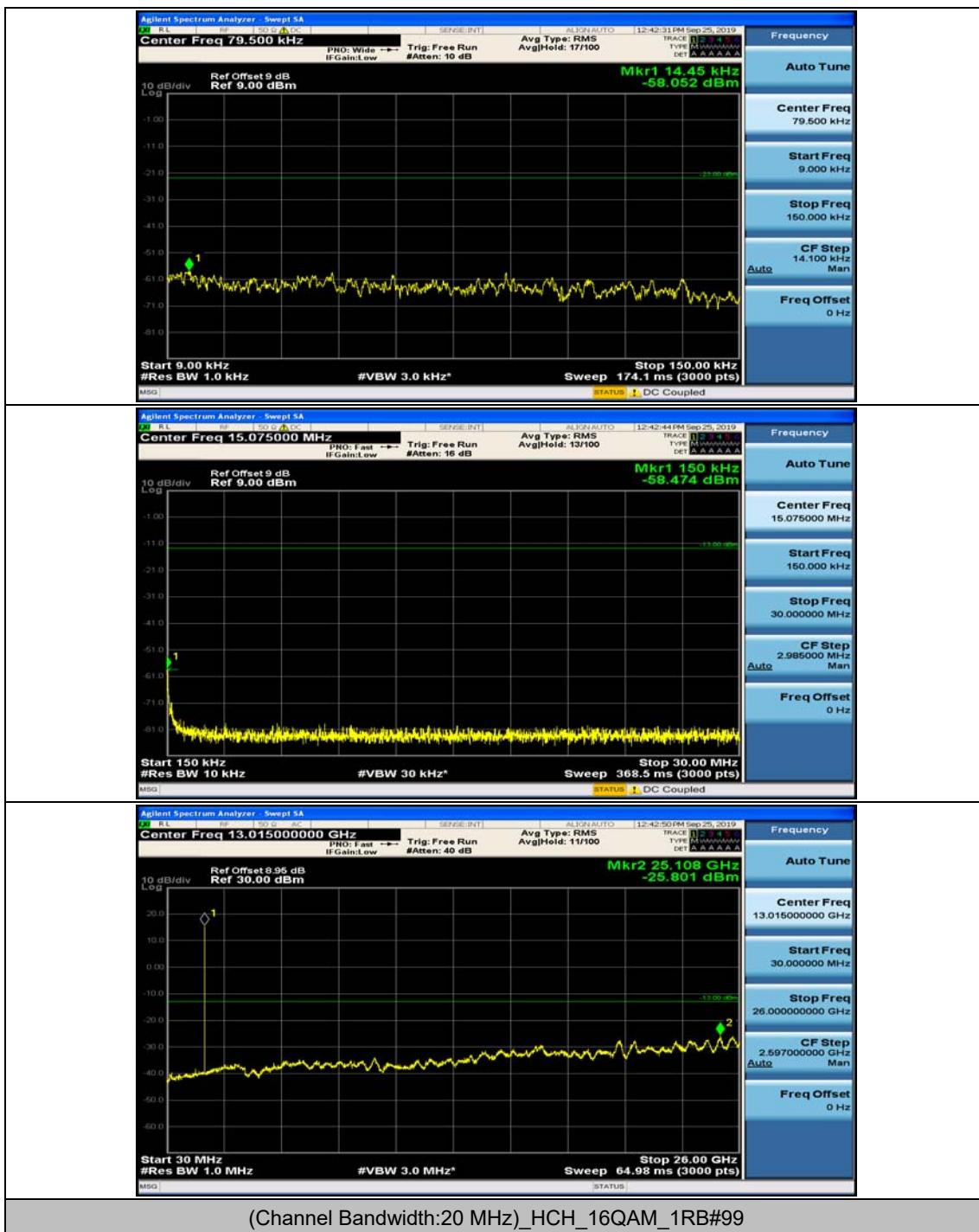


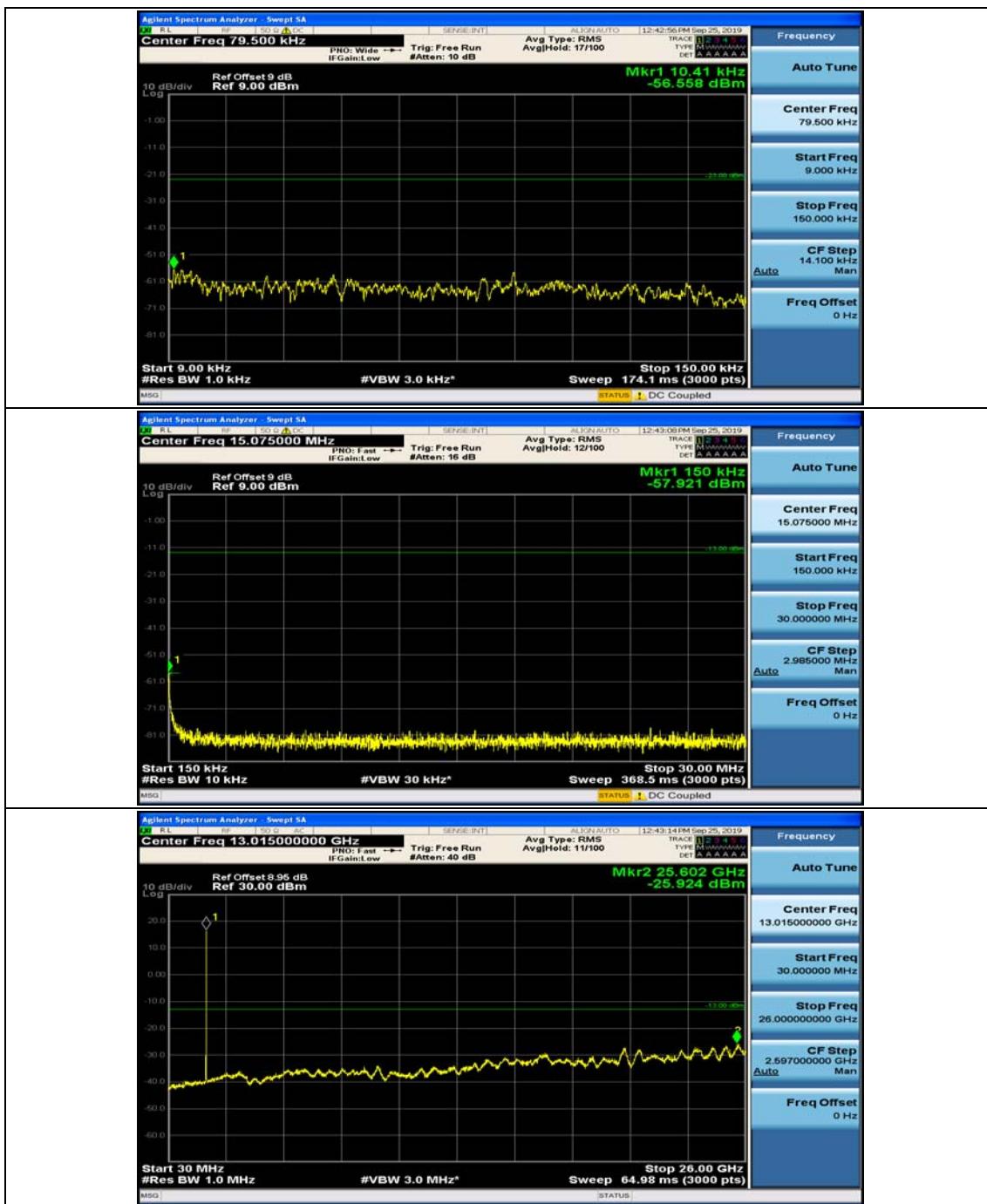












## Appendix F: Frequency Stability

### 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	2.07	0.001210	± 2.5	PASS
		VN	TN	-0.9	-0.000526	± 2.5	PASS
		VH	TN	4.34	0.002537	± 2.5	PASS
	MCH	VL	TN	2.68	0.001547	± 2.5	PASS
		VN	TN	1.46	0.000843	± 2.5	PASS
		VH	TN	2.81	0.001622	± 2.5	PASS
	HCH	VL	TN	0.4	0.000228	± 2.5	PASS
		VN	TN	3.42	0.001949	± 2.5	PASS
		VH	TN	1.11	0.000633	± 2.5	PASS
16QAM	LCH	VL	TN	-0.11	-0.000064	± 2.5	PASS
		VN	TN	0.3	0.000175	± 2.5	PASS
		VH	TN	-0.34	-0.000199	± 2.5	PASS
	MCH	VL	TN	-1.76	-0.001016	± 2.5	PASS
		VN	TN	4.59	0.002649	± 2.5	PASS
		VH	TN	2.54	0.001466	± 2.5	PASS
	HCH	VL	TN	2.41	0.001374	± 2.5	PASS
		VN	TN	3.02	0.001721	± 2.5	PASS
		VH	TN	2.3	0.001311	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.84	0.001076	± 2.5	PASS
		VN	-20	1.2	0.000701	± 2.5	PASS
		VN	-10	1.96	0.001146	± 2.5	PASS
		VN	0	1.54	0.000900	± 2.5	PASS
		VN	10	1.22	0.000713	± 2.5	PASS
		VN	20	-0.45	-0.000263	± 2.5	PASS
		VN	30	1.68	0.000982	± 2.5	PASS
		VN	40	3.54	0.002069	± 2.5	PASS
		VN	50	1.56	0.000912	± 2.5	PASS
	MCH	VN	-30	4.86	0.002805	± 2.5	PASS

		VN	-20	0.97	0.000560	$\pm 2.5$	PASS
		VN	-10	3.27	0.001887	$\pm 2.5$	PASS
		VN	0	3.95	0.002280	$\pm 2.5$	PASS
		VN	10	-1.79	-0.001033	$\pm 2.5$	PASS
		VN	20	-1.67	-0.000964	$\pm 2.5$	PASS
		VN	30	4.37	0.002522	$\pm 2.5$	PASS
		VN	40	-1.23	-0.000710	$\pm 2.5$	PASS
		VN	50	3.22	0.001859	$\pm 2.5$	PASS
	HCH	VN	-30	1.51	0.000861	$\pm 2.5$	PASS
		VN	-20	-0.87	-0.000496	$\pm 2.5$	PASS
		VN	-10	3.04	0.001733	$\pm 2.5$	PASS
		VN	0	2.52	0.001436	$\pm 2.5$	PASS
		VN	10	2.25	0.001283	$\pm 2.5$	PASS
		VN	20	-0.18	-0.000103	$\pm 2.5$	PASS
		VN	30	4.71	0.002685	$\pm 2.5$	PASS
		VN	40	3.62	0.002064	$\pm 2.5$	PASS
		VN	50	2.51	0.001431	$\pm 2.5$	PASS
16QAM	LCH	VN	-30	3.65	0.002134	$\pm 2.5$	PASS
		VN	-20	-1.1	-0.000643	$\pm 2.5$	PASS
		VN	-10	1.47	0.000859	$\pm 2.5$	PASS
		VN	0	4.94	0.002888	$\pm 2.5$	PASS
		VN	10	-0.39	-0.000228	$\pm 2.5$	PASS
		VN	20	2.03	0.001187	$\pm 2.5$	PASS
		VN	30	0.88	0.000514	$\pm 2.5$	PASS
		VN	40	2.73	0.001596	$\pm 2.5$	PASS
		VN	50	-0.52	-0.000304	$\pm 2.5$	PASS
	MCH	VN	-30	-0.9	-0.000513	$\pm 2.5$	PASS
		VN	-20	-1.94	-0.001106	$\pm 2.5$	PASS
		VN	-10	4.66	0.002656	$\pm 2.5$	PASS
		VN	0	0.02	0.000011	$\pm 2.5$	PASS
		VN	10	3.29	0.001875	$\pm 2.5$	PASS
		VN	20	2.18	0.001243	$\pm 2.5$	PASS
		VN	30	3.31	0.001887	$\pm 2.5$	PASS
		VN	40	-1.03	-0.000587	$\pm 2.5$	PASS
	HCH	VN	50	-1.4	-0.000798	$\pm 2.5$	PASS
		VN	-30	0.11	0.000063	$\pm 2.5$	PASS
		VN	-20	3.95	0.002252	$\pm 2.5$	PASS
		VN	-10	0.38	0.000217	$\pm 2.5$	PASS
		VN	0	-1.62	-0.000923	$\pm 2.5$	PASS
		VN	10	4.68	0.002668	$\pm 2.5$	PASS
		VN	20	-1.22	-0.000695	$\pm 2.5$	PASS

		VN	30	3.76	0.002143	$\pm 2.5$	PASS
		VN	40	2.28	0.001300	$\pm 2.5$	PASS
		VN	50	4.35	0.002480	$\pm 2.5$	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	2.13	0.001245	$\pm 2.5$	PASS
		VN	TN	1.06	0.000619	$\pm 2.5$	PASS
		VH	TN	-0.86	-0.000502	$\pm 2.5$	PASS
	MCH	VL	TN	2.23	0.001287	$\pm 2.5$	PASS
		VN	TN	1.23	0.000710	$\pm 2.5$	PASS
		VH	TN	3	0.001732	$\pm 2.5$	PASS
	HCH	VL	TN	3.86	0.002201	$\pm 2.5$	PASS
		VN	TN	-0.47	-0.000268	$\pm 2.5$	PASS
		VH	TN	0.54	0.000308	$\pm 2.5$	PASS
16QAM	LCH	VL	TN	0.77	0.000450	$\pm 2.5$	PASS
		VN	TN	3.48	0.002033	$\pm 2.5$	PASS
		VH	TN	3.54	0.002068	$\pm 2.5$	PASS
	MCH	VL	TN	1.22	0.000704	$\pm 2.5$	PASS
		VN	TN	-0.98	-0.000566	$\pm 2.5$	PASS
		VH	TN	1.16	0.000670	$\pm 2.5$	PASS
	HCH	VL	TN	4.14	0.002361	$\pm 2.5$	PASS
		VN	TN	4.56	0.002601	$\pm 2.5$	PASS
		VH	TN	1.06	0.000605	$\pm 2.5$	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.71	0.000999	$\pm 2.5$	PASS
		VN	-20	3.9	0.002279	$\pm 2.5$	PASS
		VN	-10	2.02	0.001180	$\pm 2.5$	PASS
		VN	0	4.6	0.002688	$\pm 2.5$	PASS
		VN	10	4.91	0.002869	$\pm 2.5$	PASS
		VN	20	4.34	0.002536	$\pm 2.5$	PASS
		VN	30	-0.69	-0.000403	$\pm 2.5$	PASS
		VN	40	2.35	0.001373	$\pm 2.5$	PASS
		VN	50	-1.94	-0.001134	$\pm 2.5$	PASS
	MCH	VN	-30	3.93	0.002268	$\pm 2.5$	PASS
		VN	-20	0.92	0.000531	$\pm 2.5$	PASS

		VN	-10	0.64	0.000369	$\pm 2.5$	PASS
		VN	0	2.19	0.001264	$\pm 2.5$	PASS
		VN	10	0.35	0.000202	$\pm 2.5$	PASS
		VN	20	-1.39	-0.000802	$\pm 2.5$	PASS
		VN	30	4.6	0.002655	$\pm 2.5$	PASS
		VN	40	3.93	0.002268	$\pm 2.5$	PASS
		VN	50	-0.7	-0.000404	$\pm 2.5$	PASS
	HCH	VN	-30	2.07	0.001180	$\pm 2.5$	PASS
		VN	-20	-0.47	-0.000268	$\pm 2.5$	PASS
		VN	-10	4.01	0.002287	$\pm 2.5$	PASS
		VN	0	0.28	0.000160	$\pm 2.5$	PASS
		VN	10	4.67	0.002663	$\pm 2.5$	PASS
		VN	20	0.22	0.000125	$\pm 2.5$	PASS
		VN	30	-1.35	-0.000770	$\pm 2.5$	PASS
		VN	40	1.24	0.000707	$\pm 2.5$	PASS
		VN	50	2.38	0.001357	$\pm 2.5$	PASS
	LCH	VN	-30	0.03	0.000017	$\pm 2.5$	PASS
		VN	-20	-1.81	-0.001045	$\pm 2.5$	PASS
		VN	-10	4.53	0.002615	$\pm 2.5$	PASS
		VN	0	4.08	0.002355	$\pm 2.5$	PASS
		VN	10	1.01	0.000583	$\pm 2.5$	PASS
		VN	20	4.39	0.002534	$\pm 2.5$	PASS
		VN	30	-0.48	-0.000277	$\pm 2.5$	PASS
		VN	40	2.81	0.001622	$\pm 2.5$	PASS
		VN	50	-0.87	-0.000502	$\pm 2.5$	PASS
	MCH	VN	-30	1.63	0.000930	$\pm 2.5$	PASS
		VN	-20	2.04	0.001163	$\pm 2.5$	PASS
		VN	-10	0.83	0.000473	$\pm 2.5$	PASS
		VN	0	2.03	0.001158	$\pm 2.5$	PASS
		VN	10	2.05	0.001169	$\pm 2.5$	PASS
		VN	20	3.01	0.001717	$\pm 2.5$	PASS
		VN	30	2.73	0.001557	$\pm 2.5$	PASS
		VN	40	-0.8	-0.000456	$\pm 2.5$	PASS
		VN	50	3.35	0.001910	$\pm 2.5$	PASS
	HCH	VN	-30	-1.21	-0.000690	$\pm 2.5$	PASS
		VN	-20	-1.27	-0.000724	$\pm 2.5$	PASS
		VN	-10	3.19	0.001819	$\pm 2.5$	PASS
		VN	0	0.71	0.000405	$\pm 2.5$	PASS
		VN	10	2.26	0.001289	$\pm 2.5$	PASS
		VN	20	3.65	0.002082	$\pm 2.5$	PASS
		VN	30	4.45	0.002538	$\pm 2.5$	PASS

		VN	40	0.27	0.000154	$\pm 2.5$	PASS
		VN	50	1.53	0.000873	$\pm 2.5$	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	-1.39	-0.000812	$\pm 2.5$	PASS
		VN	TN	0.48	0.000280	$\pm 2.5$	PASS
		VH	TN	4.8	0.002803	$\pm 2.5$	PASS
	MCH	VL	TN	3.66	0.002113	$\pm 2.5$	PASS
		VN	TN	-1.71	-0.000987	$\pm 2.5$	PASS
		VH	TN	-0.9	-0.000519	$\pm 2.5$	PASS
	HCH	VL	TN	1.49	0.000850	$\pm 2.5$	PASS
		VN	TN	3.8	0.002168	$\pm 2.5$	PASS
		VH	TN	-0.21	-0.000120	$\pm 2.5$	PASS
16QAM	LCH	VL	TN	-0.18	-0.000105	$\pm 2.5$	PASS
		VN	TN	1.29	0.000753	$\pm 2.5$	PASS
		VH	TN	4.83	0.002820	$\pm 2.5$	PASS
	MCH	VL	TN	1.99	0.001149	$\pm 2.5$	PASS
		VN	TN	1.51	0.000872	$\pm 2.5$	PASS
		VH	TN	1.23	0.000710	$\pm 2.5$	PASS
	HCH	VL	TN	2.15	0.001227	$\pm 2.5$	PASS
		VN	TN	4.88	0.002785	$\pm 2.5$	PASS
		VH	TN	2.59	0.001478	$\pm 2.5$	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.49	0.001454	$\pm 2.5$	PASS
		VN	-20	2.56	0.001495	$\pm 2.5$	PASS
		VN	-10	2.85	0.001664	$\pm 2.5$	PASS
		VN	0	2.95	0.001723	$\pm 2.5$	PASS
		VN	10	0.18	0.000105	$\pm 2.5$	PASS
		VN	20	2.68	0.001565	$\pm 2.5$	PASS
		VN	30	-1.31	-0.000765	$\pm 2.5$	PASS
		VN	40	-0.56	-0.000327	$\pm 2.5$	PASS
		VN	50	4.43	0.002587	$\pm 2.5$	PASS
	MCH	VN	-30	4.28	0.002470	$\pm 2.5$	PASS
		VN	-20	3.26	0.001882	$\pm 2.5$	PASS
		VN	-10	3.18	0.001835	$\pm 2.5$	PASS

	HCH	VN	0	1.57	0.000906	$\pm 2.5$	PASS
		VN	10	1.69	0.000975	$\pm 2.5$	PASS
		VN	20	3.44	0.001986	$\pm 2.5$	PASS
		VN	30	-0.2	-0.000115	$\pm 2.5$	PASS
		VN	40	3.73	0.002153	$\pm 2.5$	PASS
		VN	50	-1.66	-0.000958	$\pm 2.5$	PASS
		VN	-30	0.69	0.000394	$\pm 2.5$	PASS
		VN	-20	0.01	0.000005	$\pm 2.5$	PASS
		VN	-10	-1.23	-0.000645	$\pm 2.5$	PASS
		VN	0	4.78	0.002506	$\pm 2.5$	PASS
		VN	10	0.37	0.000194	$\pm 2.5$	PASS
		VN	20	2.51	0.001316	$\pm 2.5$	PASS
		VN	30	2.27	0.001190	$\pm 2.5$	PASS
		VN	40	3.47	0.001819	$\pm 2.5$	PASS
		VN	50	0.17	0.000089	$\pm 2.5$	PASS
16QAM	LCH	VN	-30	0.51	0.000294	$\pm 2.5$	PASS
		VN	-20	2.12	0.001224	$\pm 2.5$	PASS
		VN	-10	1.02	0.000589	$\pm 2.5$	PASS
		VN	0	3.69	0.002130	$\pm 2.5$	PASS
		VN	10	4.37	0.002522	$\pm 2.5$	PASS
		VN	20	-0.86	-0.000496	$\pm 2.5$	PASS
		VN	30	-0.93	-0.000537	$\pm 2.5$	PASS
		VN	40	1.03	0.000595	$\pm 2.5$	PASS
		VN	50	2.53	0.001460	$\pm 2.5$	PASS
	MCH	VN	-30	-0.05	-0.000029	$\pm 2.5$	PASS
		VN	-20	-1.76	-0.001004	$\pm 2.5$	PASS
		VN	-10	3.56	0.002031	$\pm 2.5$	PASS
		VN	0	0.86	0.000491	$\pm 2.5$	PASS
		VN	10	2.59	0.001478	$\pm 2.5$	PASS
		VN	20	-0.01	-0.000006	$\pm 2.5$	PASS
		VN	30	0.6	0.000342	$\pm 2.5$	PASS
		VN	40	3.26	0.001860	$\pm 2.5$	PASS
		VN	50	-0.31	-0.000177	$\pm 2.5$	PASS
	HCH	VN	-30	3.31	0.001735	$\pm 2.5$	PASS
		VN	-20	2.75	0.001442	$\pm 2.5$	PASS
		VN	-10	-1.64	-0.000860	$\pm 2.5$	PASS
		VN	0	2.31	0.001211	$\pm 2.5$	PASS
		VN	10	0.1	0.000052	$\pm 2.5$	PASS
		VN	20	-1.31	-0.000687	$\pm 2.5$	PASS
		VN	30	2.52	0.001321	$\pm 2.5$	PASS
		VN	40	-1	-0.000524	$\pm 2.5$	PASS

		VN	50	4.2	0.002202	$\pm 2.5$	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	1.58	0.000921	$\pm 2.5$	PASS
		VN	TN	4.32	0.002519	$\pm 2.5$	PASS
		VH	TN	0.03	0.000017	$\pm 2.5$	PASS
	MCH	VL	TN	-0.73	-0.000421	$\pm 2.5$	PASS
		VN	TN	0.05	0.000029	$\pm 2.5$	PASS
		VH	TN	4.86	0.002805	$\pm 2.5$	PASS
	HCH	VL	TN	2.87	0.001640	$\pm 2.5$	PASS
		VN	TN	2.85	0.001629	$\pm 2.5$	PASS
		VH	TN	3.13	0.001789	$\pm 2.5$	PASS
16QAM	LCH	VL	TN	3.57	0.002082	$\pm 2.5$	PASS
		VN	TN	4.81	0.002805	$\pm 2.5$	PASS
		VH	TN	-0.72	-0.000420	$\pm 2.5$	PASS
	MCH	VL	TN	2.01	0.001160	$\pm 2.5$	PASS
		VN	TN	2.08	0.001201	$\pm 2.5$	PASS
		VH	TN	0.16	0.000092	$\pm 2.5$	PASS
	HCH	VL	TN	4.58	0.002617	$\pm 2.5$	PASS
		VN	TN	1.57	0.000897	$\pm 2.5$	PASS
		VH	TN	1.12	0.000640	$\pm 2.5$	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	4.21	0.002455	$\pm 2.5$	PASS
		VN	-20	-1.49	-0.000869	$\pm 2.5$	PASS
		VN	-10	-0.65	-0.000379	$\pm 2.5$	PASS
		VN	0	4.19	0.002443	$\pm 2.5$	PASS
		VN	10	4.35	0.002536	$\pm 2.5$	PASS
		VN	20	1.3	0.000758	$\pm 2.5$	PASS
		VN	30	-0.78	-0.000455	$\pm 2.5$	PASS
		VN	40	1.22	0.000711	$\pm 2.5$	PASS
		VN	50	4.23	0.002466	$\pm 2.5$	PASS
	MCH	VN	-30	1.36	0.000785	$\pm 2.5$	PASS
		VN	-20	0.15	0.000087	$\pm 2.5$	PASS
		VN	-10	1.34	0.000773	$\pm 2.5$	PASS
		VN	0	3.04	0.001755	$\pm 2.5$	PASS

		VN	10	0.67	0.000387	$\pm 2.5$	PASS
		VN	20	3.43	0.001980	$\pm 2.5$	PASS
		VN	30	1.76	0.001016	$\pm 2.5$	PASS
		VN	40	3.34	0.001928	$\pm 2.5$	PASS
		VN	50	-0.28	-0.000162	$\pm 2.5$	PASS
		VN	-30	3.21	0.001834	$\pm 2.5$	PASS
		VN	-20	4.92	0.002811	$\pm 2.5$	PASS
		VN	-10	3.97	0.002269	$\pm 2.5$	PASS
		VN	0	-1.49	-0.000851	$\pm 2.5$	PASS
		VN	10	1.93	0.001103	$\pm 2.5$	PASS
	HCH	VN	20	-1.88	-0.001074	$\pm 2.5$	PASS
		VN	30	-1.3	-0.000743	$\pm 2.5$	PASS
		VN	40	1.38	0.000789	$\pm 2.5$	PASS
		VN	50	1.57	0.000897	$\pm 2.5$	PASS
		VN	-30	1.59	0.000918	$\pm 2.5$	PASS
		VN	-20	2.11	0.001218	$\pm 2.5$	PASS
		VN	-10	5	0.002886	$\pm 2.5$	PASS
		VN	0	4.72	0.002724	$\pm 2.5$	PASS
		VN	10	-0.07	-0.000040	$\pm 2.5$	PASS
		VN	20	3.49	0.002014	$\pm 2.5$	PASS
	LCH	VN	30	2.45	0.001414	$\pm 2.5$	PASS
		VN	40	3.56	0.002055	$\pm 2.5$	PASS
		VN	50	-1.57	-0.000906	$\pm 2.5$	PASS
		VN	-30	1.21	0.000691	$\pm 2.5$	PASS
		VN	-20	1.6	0.000914	$\pm 2.5$	PASS
		VN	-10	0.73	0.000417	$\pm 2.5$	PASS
		VN	0	-1.93	-0.001103	$\pm 2.5$	PASS
		VN	10	4.76	0.002720	$\pm 2.5$	PASS
		VN	20	-0.15	-0.000086	$\pm 2.5$	PASS
		VN	30	2.07	0.001183	$\pm 2.5$	PASS
	MCH	VN	40	4.22	0.002411	$\pm 2.5$	PASS
		VN	50	-0.53	-0.000303	$\pm 2.5$	PASS
		VN	-30	3.17	0.001811	$\pm 2.5$	PASS
		VN	-20	0.77	0.000440	$\pm 2.5$	PASS
		VN	-10	-1.71	-0.000977	$\pm 2.5$	PASS
		VN	0	-0.2	-0.000114	$\pm 2.5$	PASS
		VN	10	-0.73	-0.000417	$\pm 2.5$	PASS
		VN	20	2.59	0.001480	$\pm 2.5$	PASS
		VN	30	-0.83	-0.000474	$\pm 2.5$	PASS
		VN	40	2.92	0.001669	$\pm 2.5$	PASS
	HCH	VN	50	1.67	0.000954	$\pm 2.5$	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	4.82	0.002806	± 2.5	PASS
		VN	TN	3.31	0.001927	± 2.5	PASS
		VH	TN	0.52	0.000303	± 2.5	PASS
	MCH	VL	TN	4.61	0.002661	± 2.5	PASS
		VN	TN	4.69	0.002707	± 2.5	PASS
		VH	TN	-1.25	-0.000722	± 2.5	PASS
	HCH	VL	TN	1.04	0.000595	± 2.5	PASS
		VN	TN	-0.85	-0.000486	± 2.5	PASS
		VH	TN	4.48	0.002564	± 2.5	PASS
16QAM	LCH	VL	TN	-1.56	-0.000908	± 2.5	PASS
		VN	TN	-0.61	-0.000355	± 2.5	PASS
		VH	TN	3.41	0.001985	± 2.5	PASS
	MCH	VL	TN	-1.07	-0.000618	± 2.5	PASS
		VN	TN	2.7	0.001558	± 2.5	PASS
		VH	TN	2.33	0.001345	± 2.5	PASS
	HCH	VL	TN	0.6	0.000343	± 2.5	PASS
		VN	TN	-1.62	-0.000927	± 2.5	PASS
		VH	TN	1.78	0.001019	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.16	0.001258	± 2.5	PASS
		VN	-20	2.53	0.001473	± 2.5	PASS
		VN	-10	-0.11	-0.000064	± 2.5	PASS
		VN	0	2.32	0.001351	± 2.5	PASS
		VN	10	0.92	0.000536	± 2.5	PASS
		VN	20	1.38	0.000803	± 2.5	PASS
		VN	30	-1.46	-0.000850	± 2.5	PASS
		VN	40	2.49	0.001450	± 2.5	PASS
		VN	50	2.47	0.001438	± 2.5	PASS
	MCH	VN	-30	3.28	0.001893	± 2.5	PASS
		VN	-20	1.72	0.000993	± 2.5	PASS
		VN	-10	-0.44	-0.000254	± 2.5	PASS
		VN	0	-0.74	-0.000427	± 2.5	PASS
		VN	10	1.82	0.001051	± 2.5	PASS
		VN	20	1.63	0.000941	± 2.5	PASS

	HCH	VN	30	4.64	0.002678	$\pm$ 2.5	PASS
		VN	40	3.55	0.002049	$\pm$ 2.5	PASS
		VN	50	-1.09	-0.000629	$\pm$ 2.5	PASS
		VN	-30	-0.89	-0.000509	$\pm$ 2.5	PASS
		VN	-20	1.1	0.000629	$\pm$ 2.5	PASS
		VN	-10	2.24	0.001282	$\pm$ 2.5	PASS
		VN	0	2.66	0.001522	$\pm$ 2.5	PASS
		VN	10	4.02	0.002300	$\pm$ 2.5	PASS
		VN	20	3.97	0.002272	$\pm$ 2.5	PASS
		VN	30	3.27	0.001871	$\pm$ 2.5	PASS
	LCH	VN	40	3.67	0.002100	$\pm$ 2.5	PASS
		VN	50	0.74	0.000423	$\pm$ 2.5	PASS
		VN	-30	1.73	0.000999	$\pm$ 2.5	PASS
		VN	-20	1.56	0.000900	$\pm$ 2.5	PASS
		VN	-10	4.28	0.002470	$\pm$ 2.5	PASS
		VN	0	1.38	0.000797	$\pm$ 2.5	PASS
		VN	10	4.41	0.002545	$\pm$ 2.5	PASS
		VN	20	-1.11	-0.000641	$\pm$ 2.5	PASS
		VN	30	4.68	0.002701	$\pm$ 2.5	PASS
	MCH	VN	40	2.73	0.001576	$\pm$ 2.5	PASS
		VN	50	3.34	0.001928	$\pm$ 2.5	PASS
		VN	-30	3.17	0.001814	$\pm$ 2.5	PASS
		VN	-20	1.12	0.000641	$\pm$ 2.5	PASS
		VN	-10	0.86	0.000492	$\pm$ 2.5	PASS
		VN	0	3.72	0.002129	$\pm$ 2.5	PASS
		VN	10	3.71	0.002123	$\pm$ 2.5	PASS
		VN	20	0.78	0.000446	$\pm$ 2.5	PASS
		VN	30	-1.72	-0.000984	$\pm$ 2.5	PASS
	HCH	VN	40	4.01	0.002295	$\pm$ 2.5	PASS
		VN	50	-0.22	-0.000126	$\pm$ 2.5	PASS
		VN	-30	-0.91	-0.000521	$\pm$ 2.5	PASS
		VN	-20	1.03	0.000589	$\pm$ 2.5	PASS
		VN	-10	-0.09	-0.000052	$\pm$ 2.5	PASS
		VN	0	4.26	0.002438	$\pm$ 2.5	PASS
		VN	10	3.29	0.001883	$\pm$ 2.5	PASS
		VN	20	3.48	0.001991	$\pm$ 2.5	PASS
		VN	30	4.19	0.002398	$\pm$ 2.5	PASS
		VN	40	2.37	0.001356	$\pm$ 2.5	PASS
		VN	50	2.43	0.001391	$\pm$ 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	2.08	0.001209	± 2.5	PASS
		VN	TN	-1.06	-0.000616	± 2.5	PASS
		VH	TN	3.92	0.002279	± 2.5	PASS
	MCH	VL	TN	3.64	0.002101	± 2.5	PASS
		VN	TN	-1.76	-0.001016	± 2.5	PASS
		VH	TN	-0.23	-0.000133	± 2.5	PASS
	HCH	VL	TN	1.88	0.001077	± 2.5	PASS
		VN	TN	2.78	0.001593	± 2.5	PASS
		VH	TN	-1.19	-0.000682	± 2.5	PASS
16QAM	LCH	VL	TN	-0.61	-0.000355	± 2.5	PASS
		VN	TN	0.09	0.000052	± 2.5	PASS
		VH	TN	-0.75	-0.000436	± 2.5	PASS
	MCH	VL	TN	-1.06	-0.000612	± 2.5	PASS
		VN	TN	-0.14	-0.000081	± 2.5	PASS
		VH	TN	1.92	0.001108	± 2.5	PASS
	HCH	VL	TN	1.15	0.000659	± 2.5	PASS
		VN	TN	-1.51	-0.000865	± 2.5	PASS
		VH	TN	-0.46	-0.000264	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.47	0.001436	± 2.5	PASS
		VN	-20	3.39	0.001971	± 2.5	PASS
		VN	-10	-0.48	-0.000279	± 2.5	PASS
		VN	0	-0.84	-0.000488	± 2.5	PASS
		VN	10	-0.04	-0.000023	± 2.5	PASS
		VN	20	3.16	0.001837	± 2.5	PASS
		VN	30	-1.62	-0.000942	± 2.5	PASS
		VN	40	1.45	0.000843	± 2.5	PASS
		VN	50	-1.1	-0.000640	± 2.5	PASS
	MCH	VN	-30	-0.05	-0.000029	± 2.5	PASS
		VN	-20	-0.9	-0.000519	± 2.5	PASS
		VN	-10	-0.91	-0.000525	± 2.5	PASS
		VN	0	4.31	0.002488	± 2.5	PASS
		VN	10	4.09	0.002361	± 2.5	PASS
		VN	20	1.18	0.000681	± 2.5	PASS

	HCH	VN	30	2.98	0.001720	$\pm 2.5$	PASS
		VN	40	1.26	0.000727	$\pm 2.5$	PASS
		VN	50	-1.95	-0.001126	$\pm 2.5$	PASS
		VN	-30	-1.9	-0.001089	$\pm 2.5$	PASS
		VN	-20	3.99	0.002287	$\pm 2.5$	PASS
		VN	-10	-1.54	-0.000883	$\pm 2.5$	PASS
		VN	0	1.11	0.000636	$\pm 2.5$	PASS
		VN	10	-1.42	-0.000814	$\pm 2.5$	PASS
		VN	20	1.21	0.000693	$\pm 2.5$	PASS
		VN	30	-1.5	-0.000860	$\pm 2.5$	PASS
	LCH	VN	40	0.64	0.000367	$\pm 2.5$	PASS
		VN	50	2.05	0.001175	$\pm 2.5$	PASS
		VN	-30	3.85	0.002222	$\pm 2.5$	PASS
		VN	-20	0.84	0.000485	$\pm 2.5$	PASS
		VN	-10	0.43	0.000248	$\pm 2.5$	PASS
		VN	0	-0.01	-0.000006	$\pm 2.5$	PASS
		VN	10	4.95	0.002857	$\pm 2.5$	PASS
		VN	20	3.46	0.001997	$\pm 2.5$	PASS
		VN	30	-1.96	-0.001131	$\pm 2.5$	PASS
	MCH	VN	40	1.31	0.000756	$\pm 2.5$	PASS
		VN	50	-0.64	-0.000369	$\pm 2.5$	PASS
		VN	-30	0.32	0.000183	$\pm 2.5$	PASS
		VN	-20	2.62	0.001501	$\pm 2.5$	PASS
		VN	-10	3.27	0.001874	$\pm 2.5$	PASS
		VN	0	3.36	0.001926	$\pm 2.5$	PASS
		VN	10	-1.38	-0.000791	$\pm 2.5$	PASS
		VN	20	4.45	0.002550	$\pm 2.5$	PASS
		VN	30	0.58	0.000332	$\pm 2.5$	PASS
	HCH	VN	40	2.03	0.001163	$\pm 2.5$	PASS
		VN	50	1.78	0.001020	$\pm 2.5$	PASS
		VN	-30	0.91	0.000521	$\pm 2.5$	PASS
		VN	-20	3.92	0.002246	$\pm 2.5$	PASS
		VN	-10	1.98	0.001135	$\pm 2.5$	PASS
		VN	0	-0.4	-0.000229	$\pm 2.5$	PASS
		VN	10	0.52	0.000298	$\pm 2.5$	PASS
		VN	20	4.57	0.002619	$\pm 2.5$	PASS
		VN	30	0.03	0.000017	$\pm 2.5$	PASS