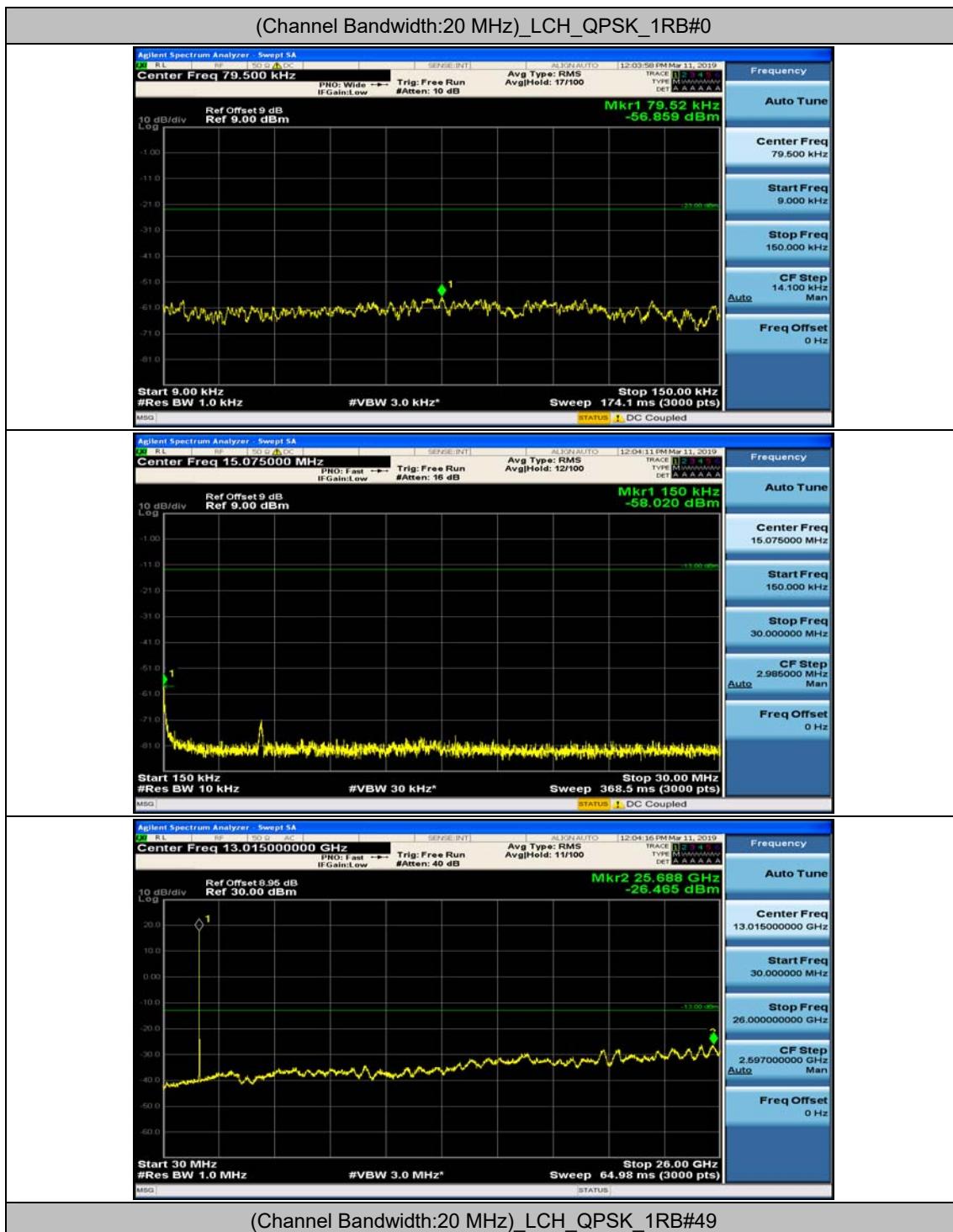
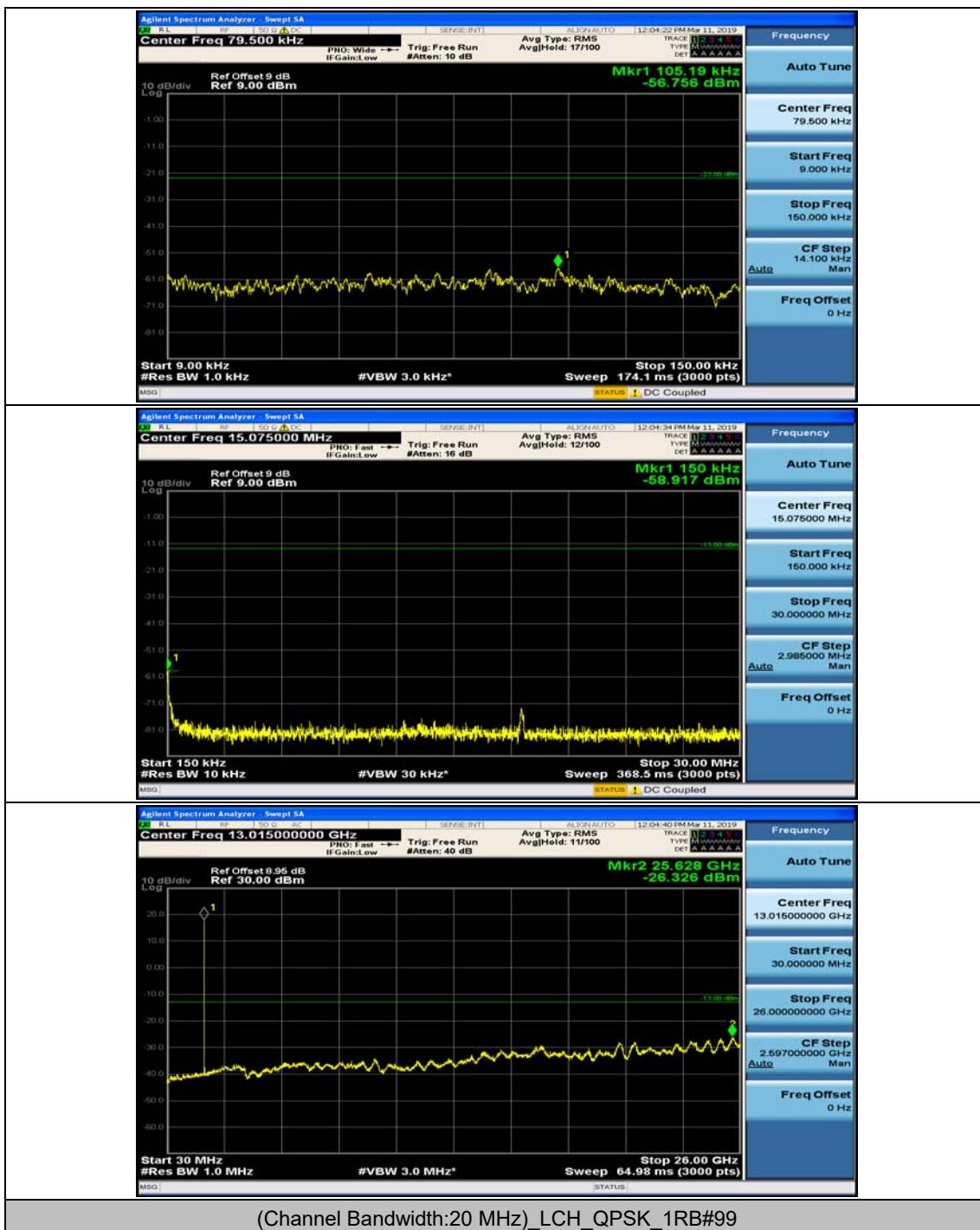
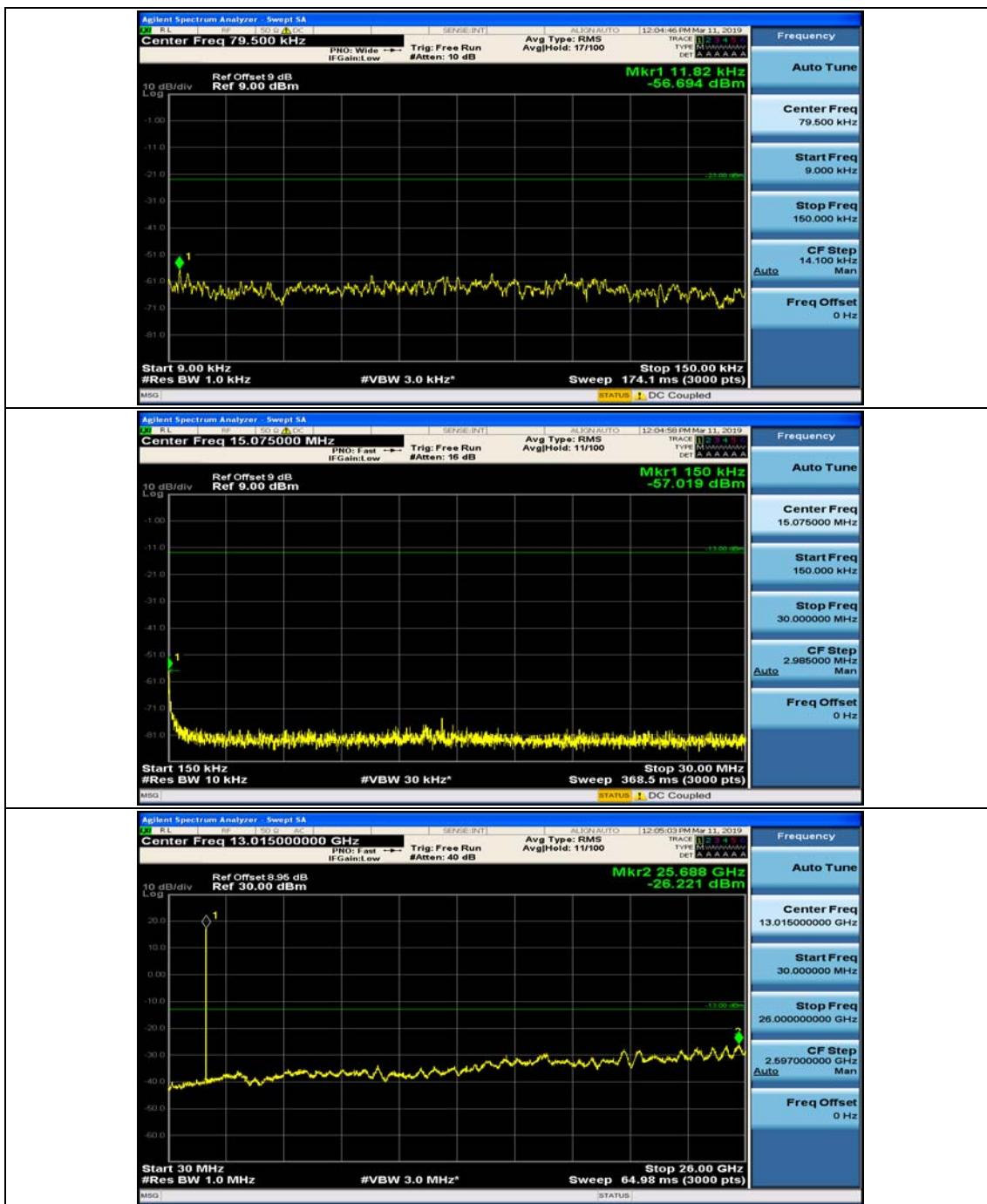
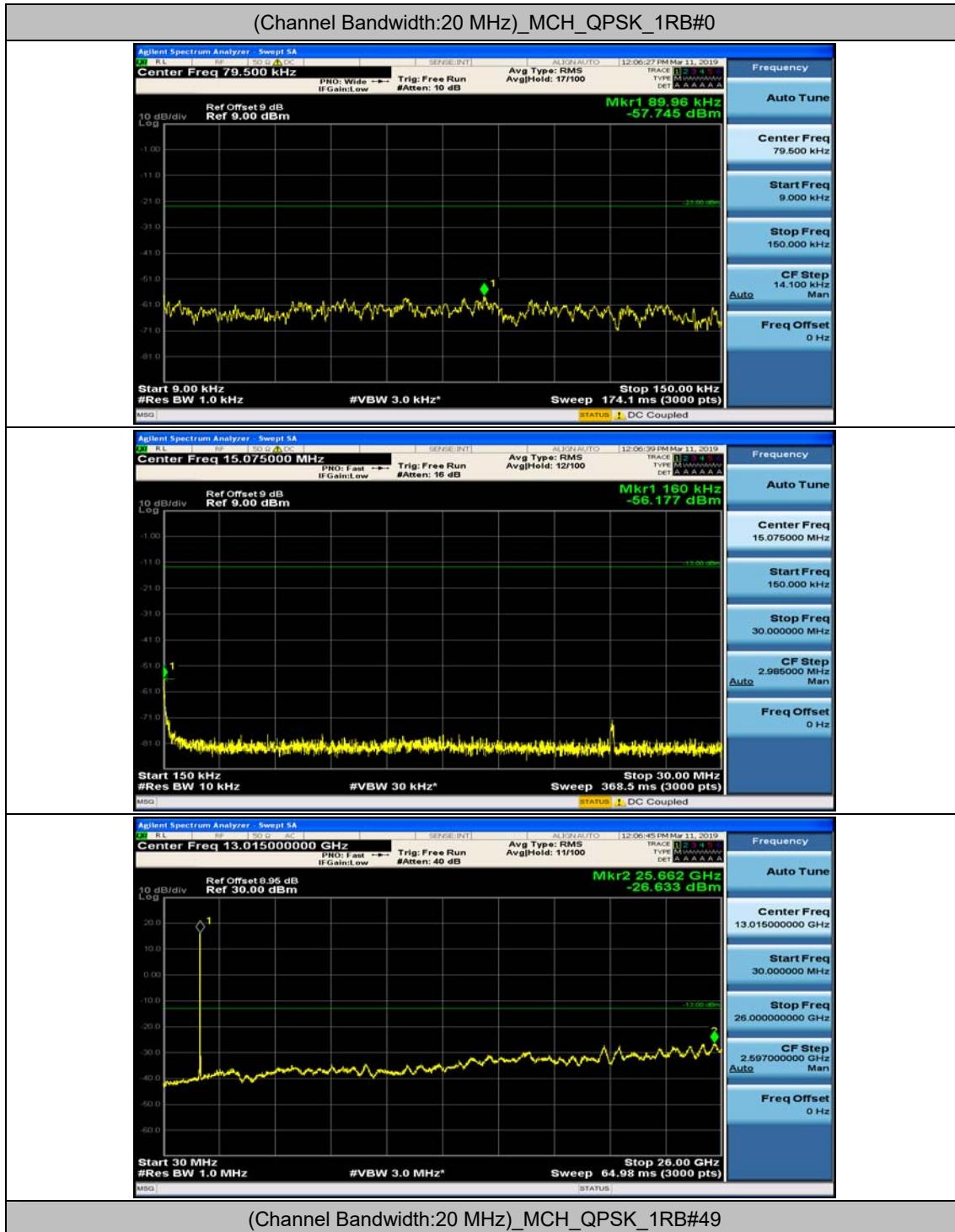


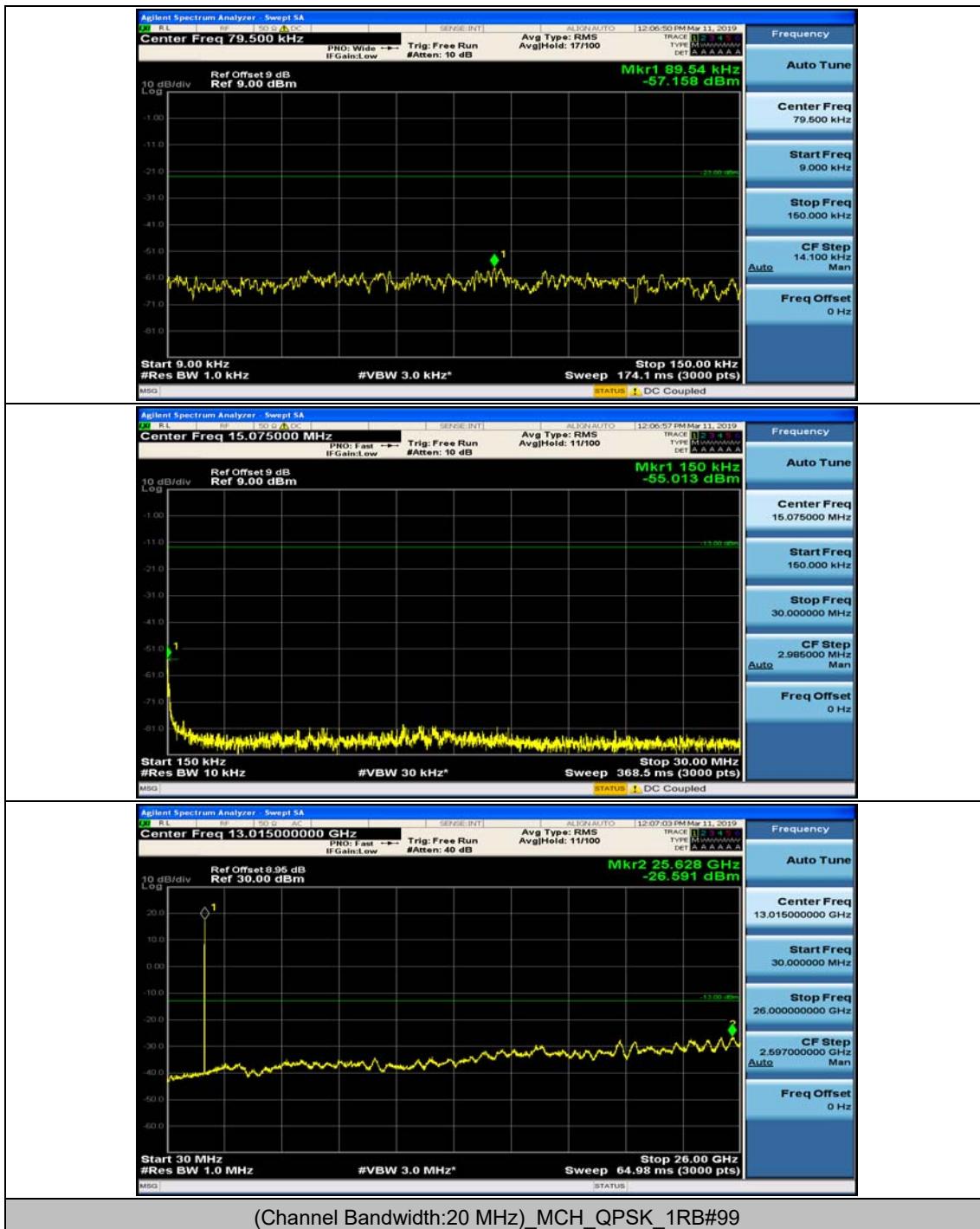
## Channel Bandwidth: 20 MHz

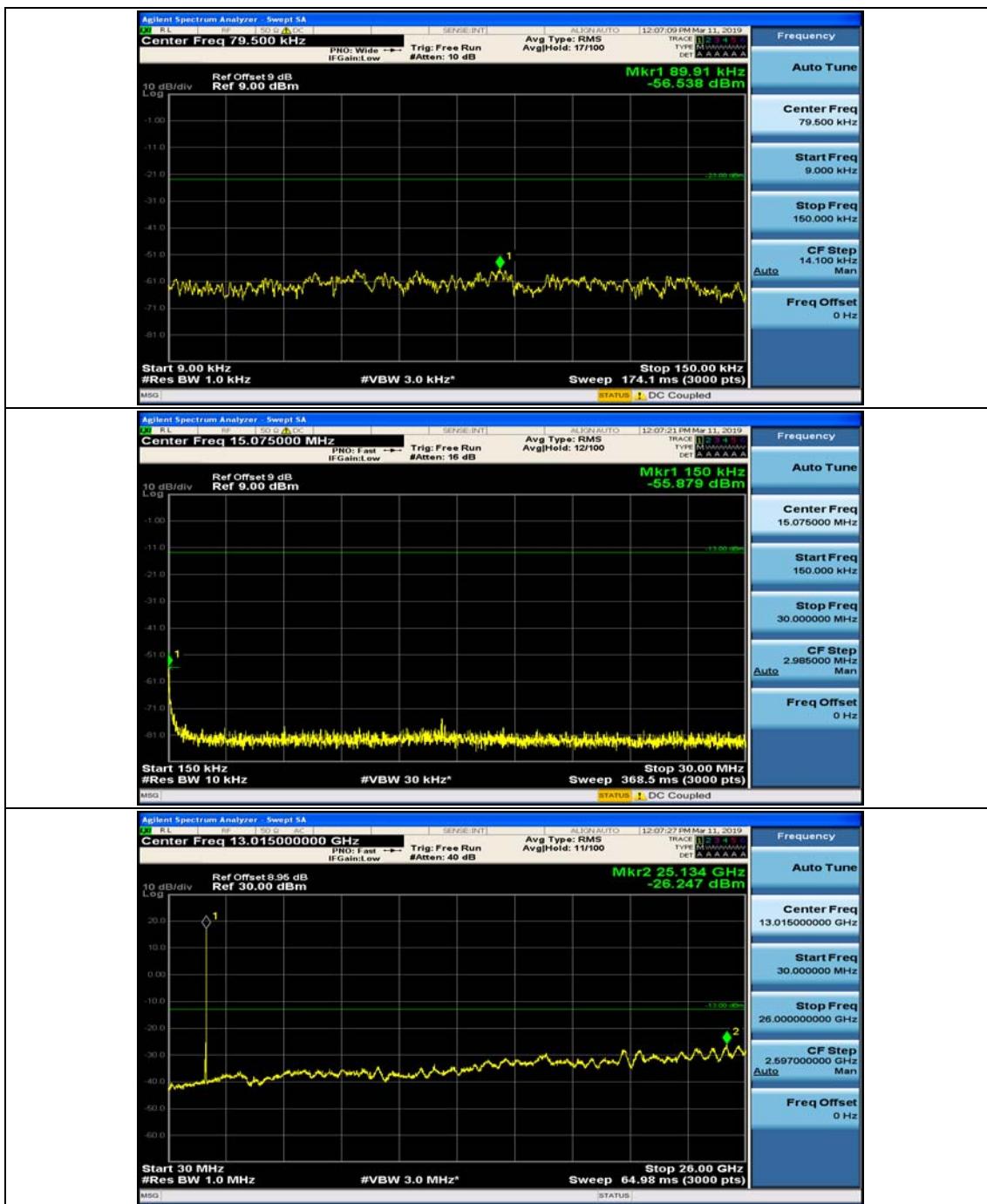


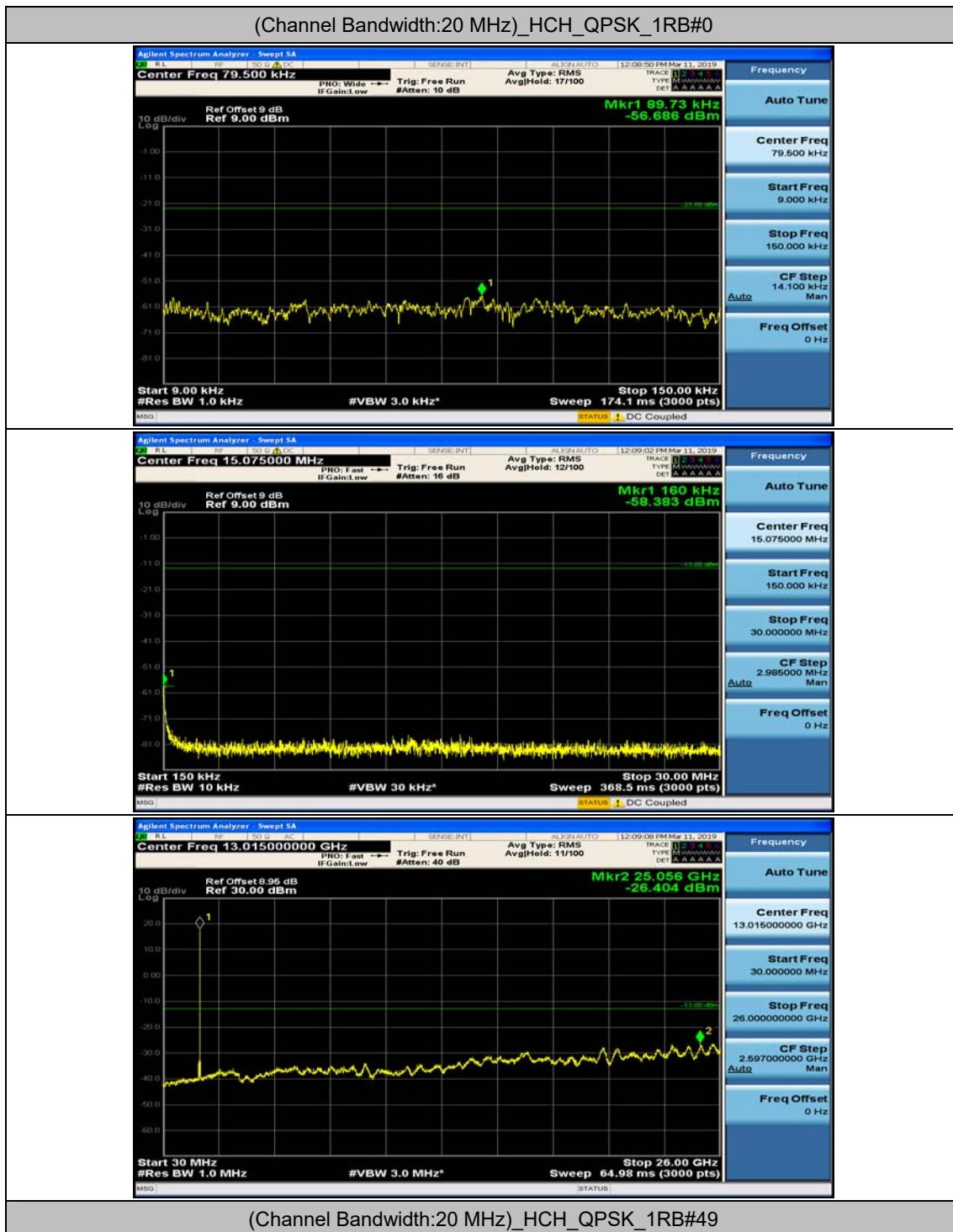


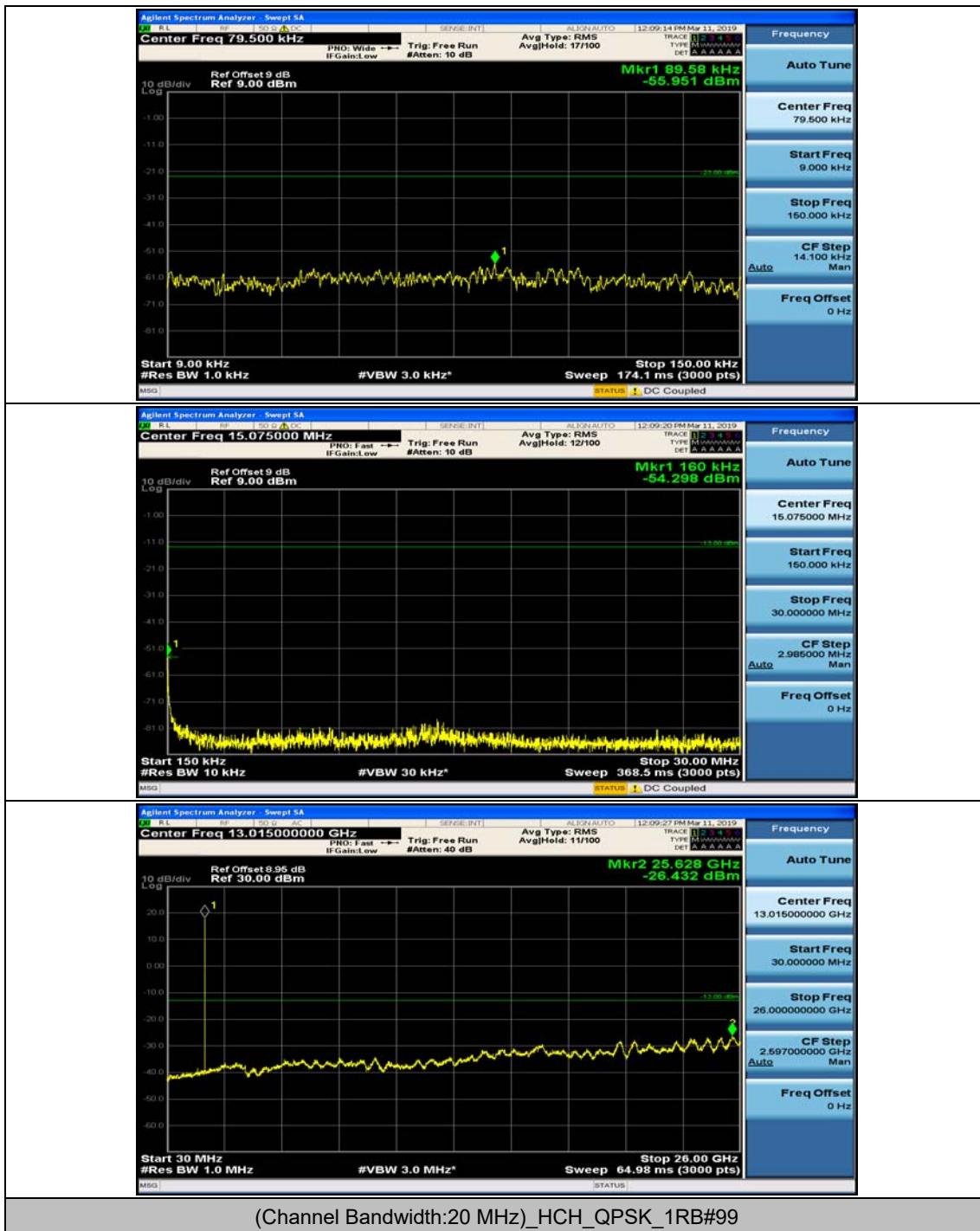


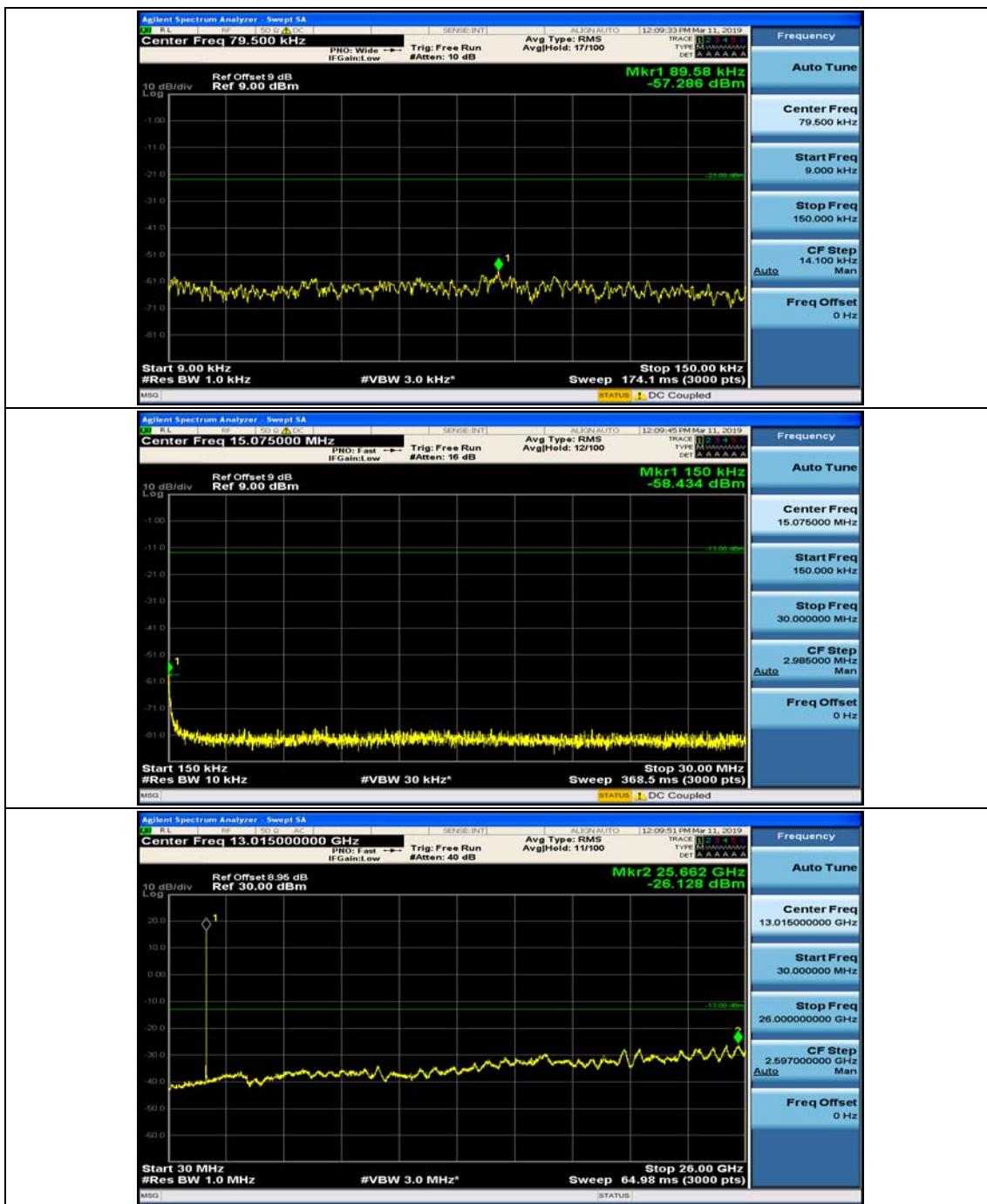


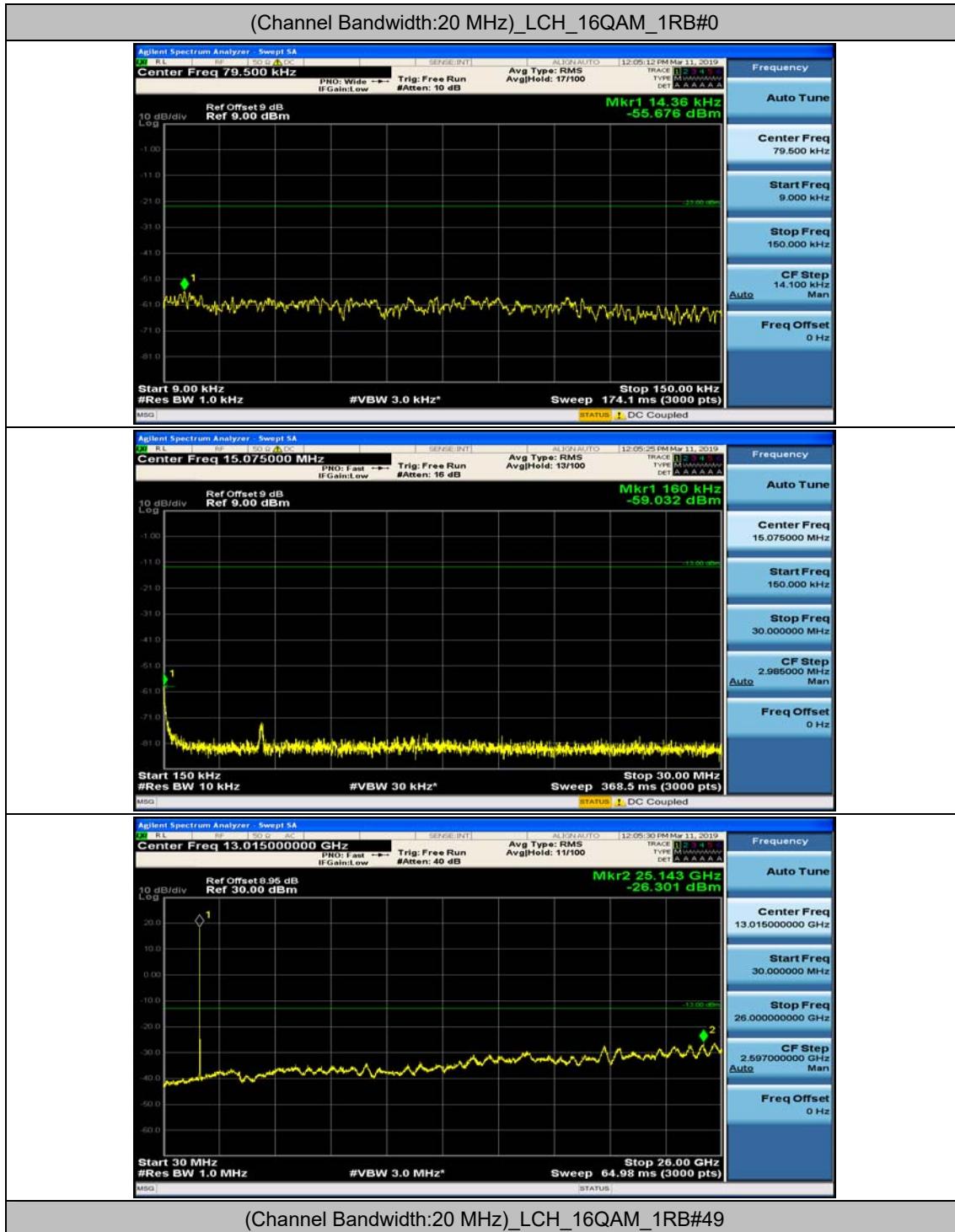


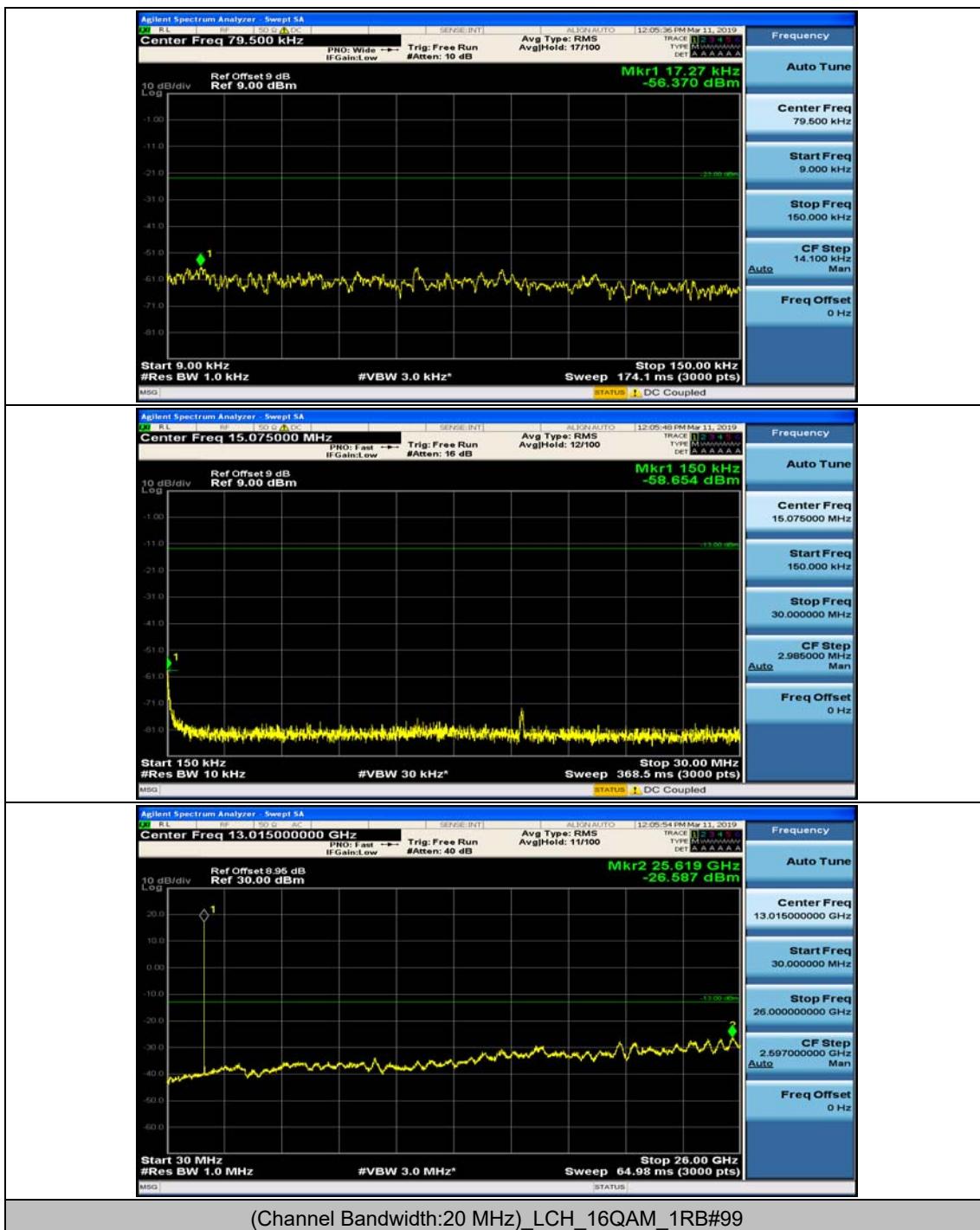


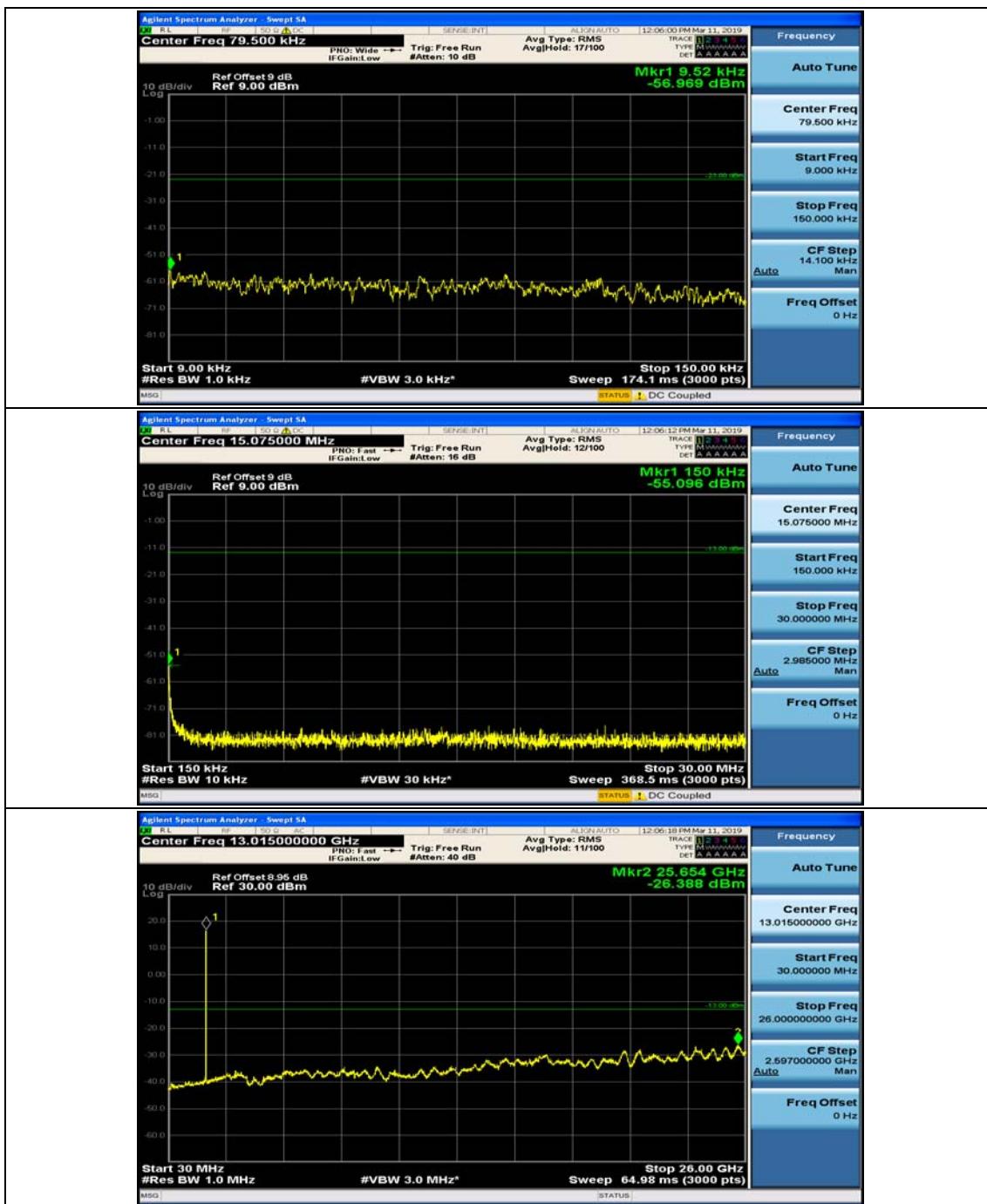


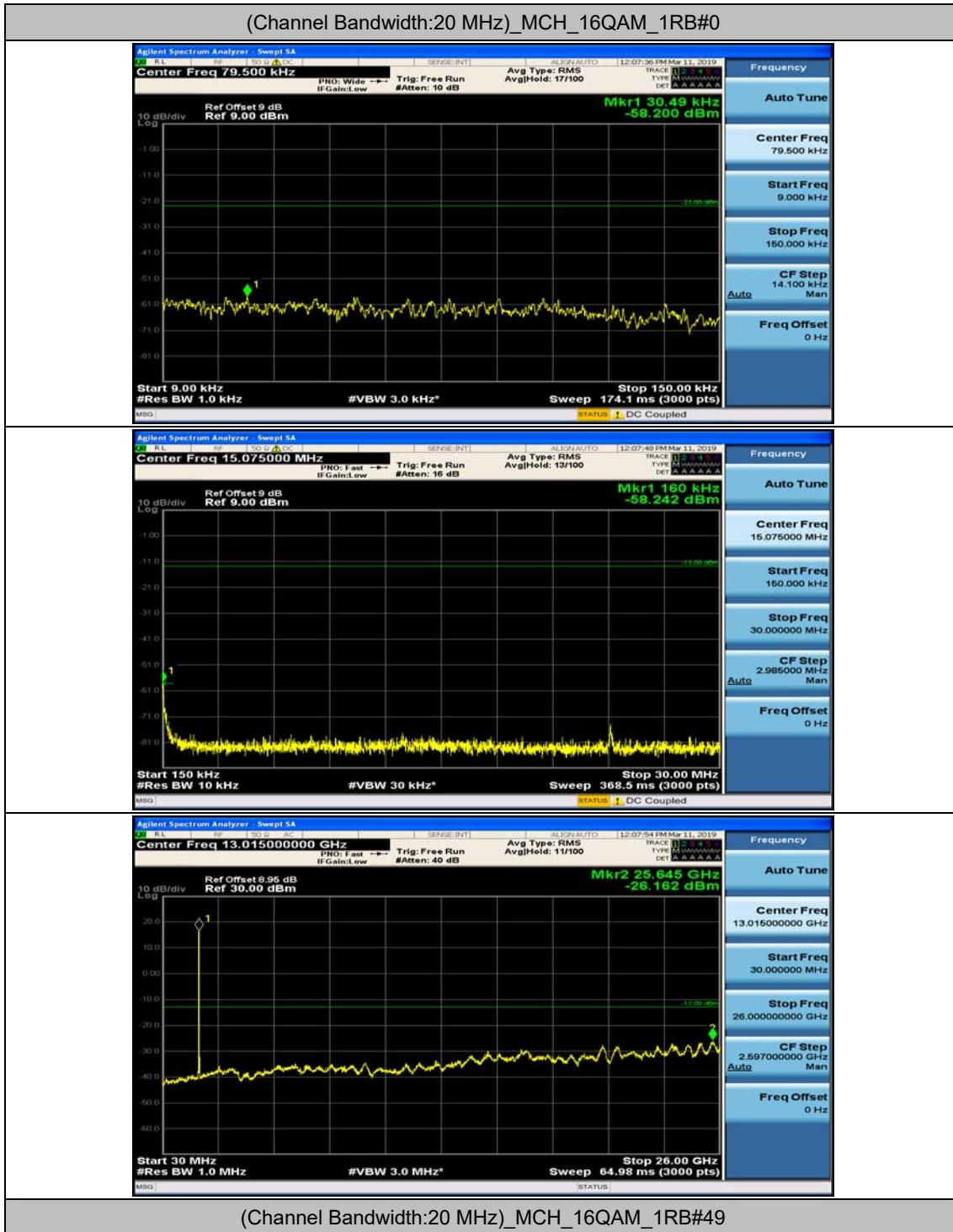


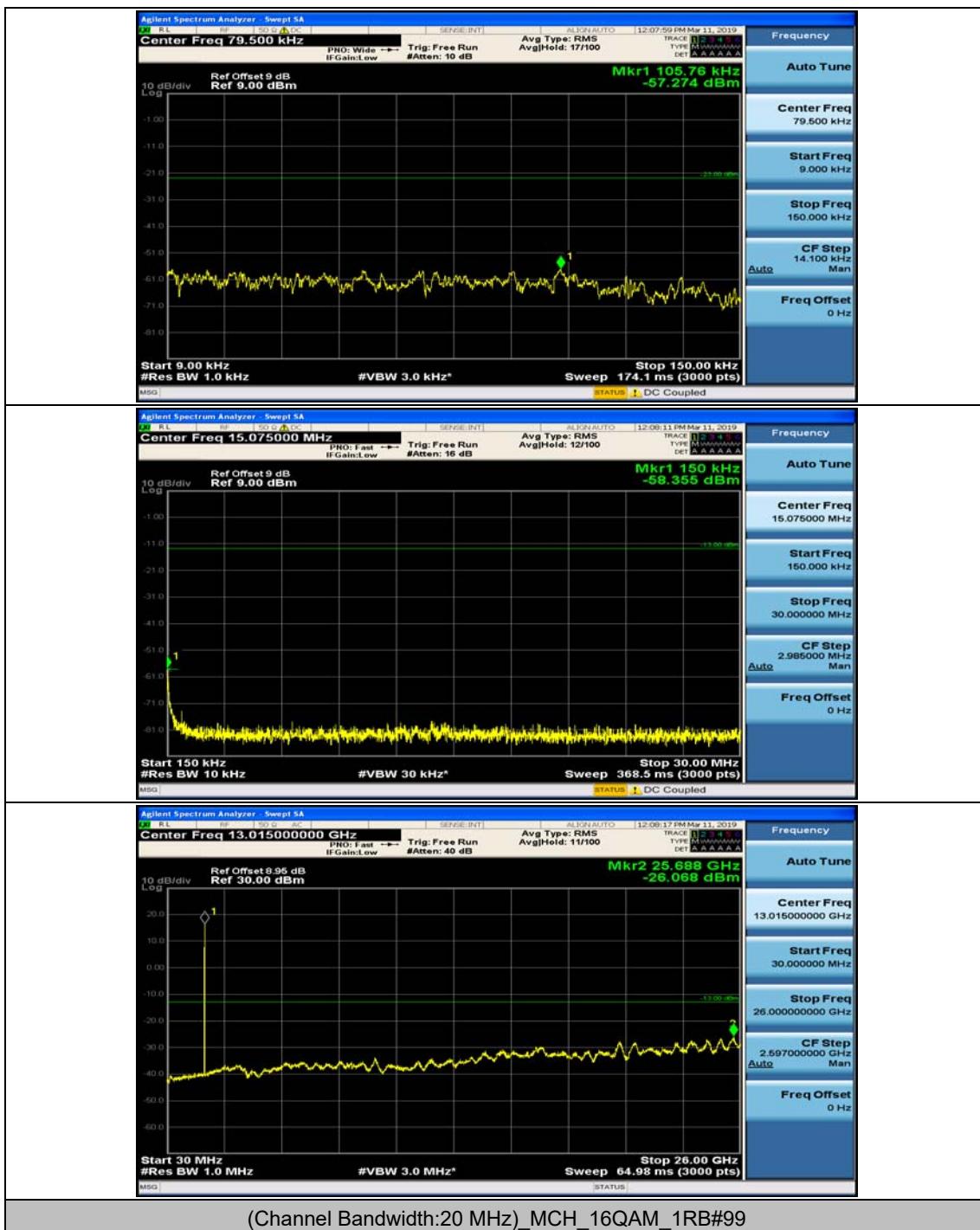


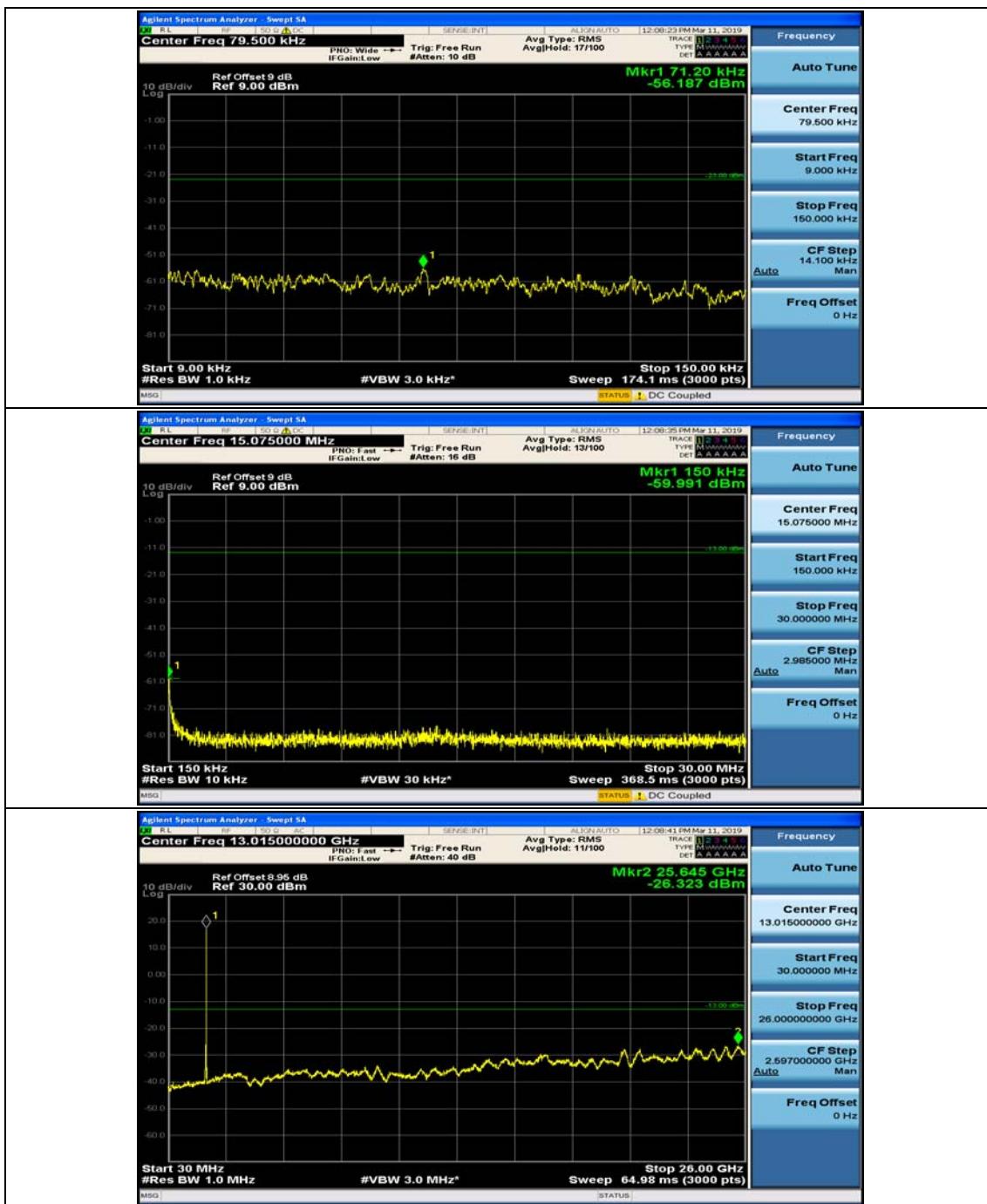


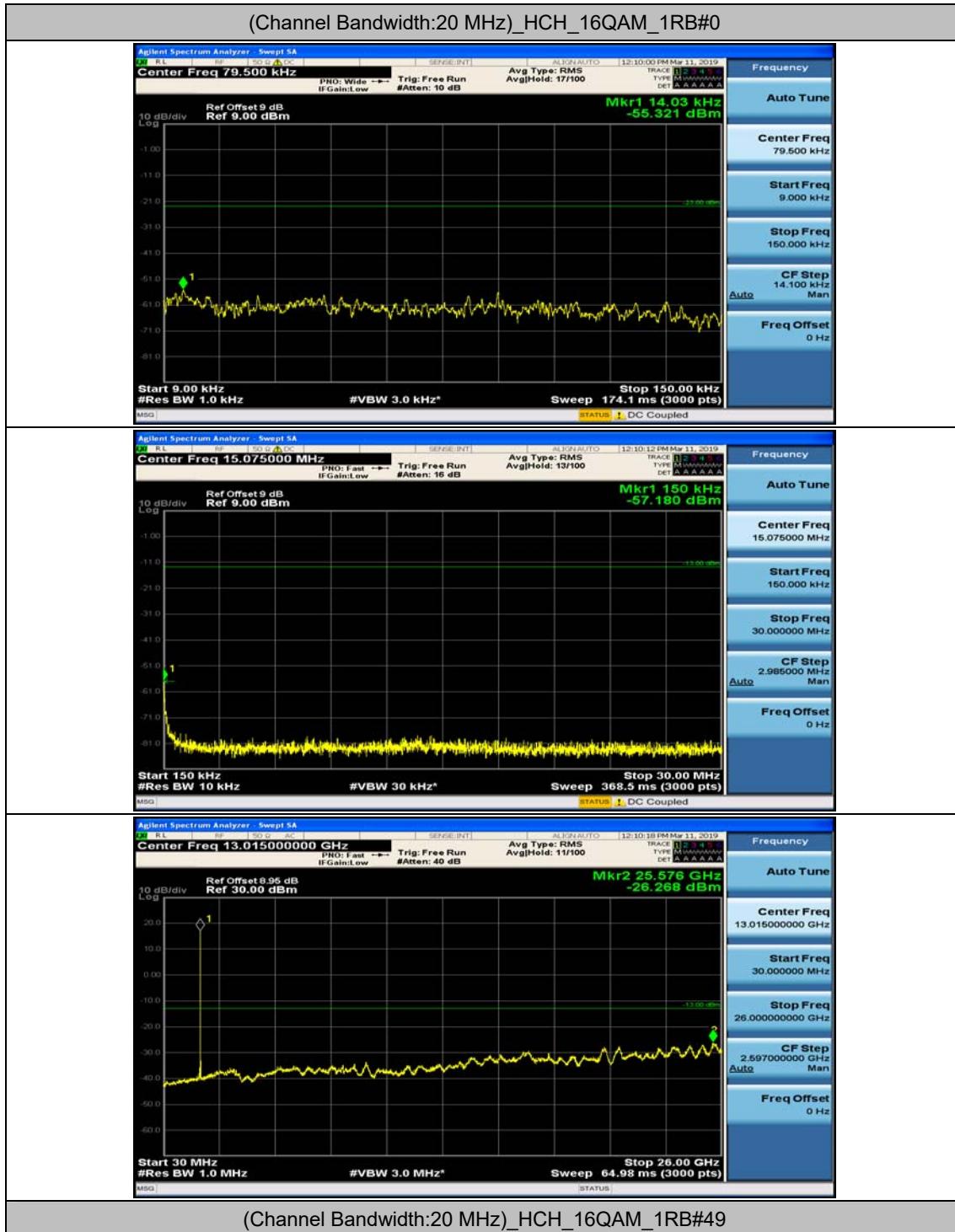


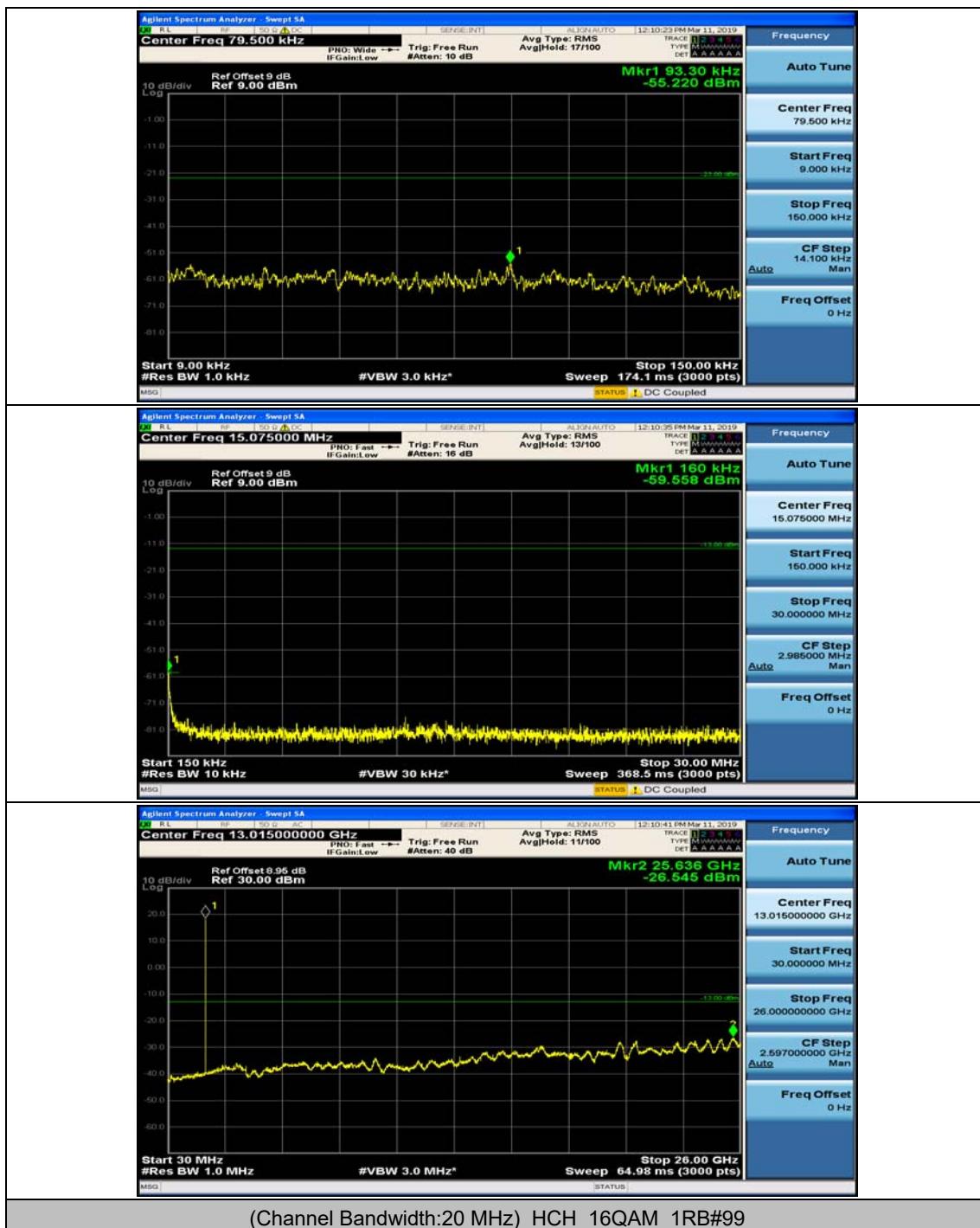


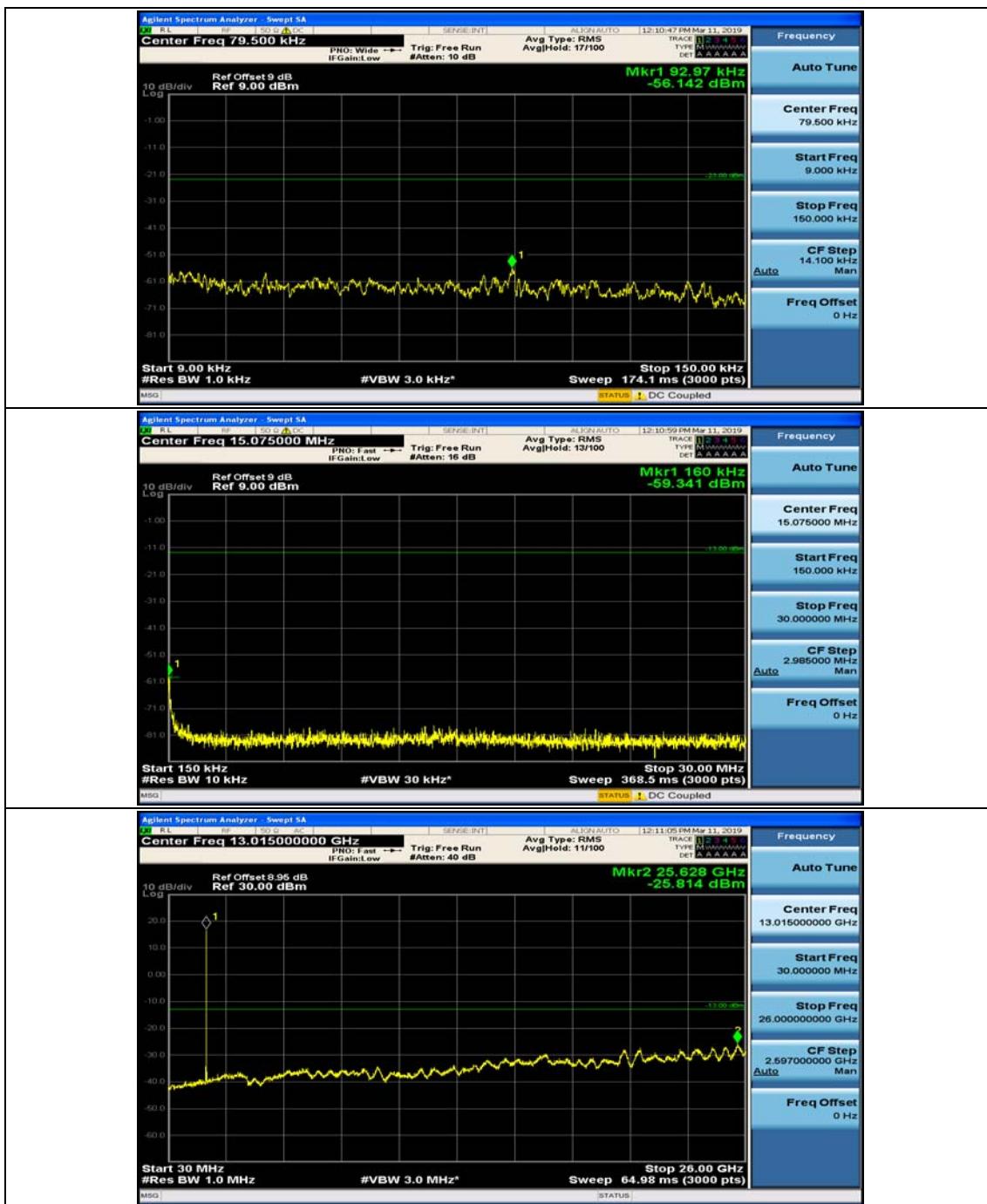












## Appendix F: Frequency Stability

### 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	2.05	0.001198	± 2.5	PASS
		VN	TN	3.01	0.001760	± 2.5	PASS
		VH	TN	4.39	0.002566	± 2.5	PASS
	MCH	VL	TN	2.48	0.001431	± 2.5	PASS
		VN	TN	2	0.001154	± 2.5	PASS
		VH	TN	-1.74	-0.001004	± 2.5	PASS
	HCH	VL	TN	4.04	0.002303	± 2.5	PASS
		VN	TN	-0.22	-0.000125	± 2.5	PASS
		VH	TN	-0.58	-0.000331	± 2.5	PASS
16QAM	LCH	VL	TN	1.18	0.000690	± 2.5	PASS
		VN	TN	-1.9	-0.001111	± 2.5	PASS
		VH	TN	0.77	0.000450	± 2.5	PASS
	MCH	VL	TN	4.6	0.002655	± 2.5	PASS
		VN	TN	4.19	0.002418	± 2.5	PASS
		VH	TN	4.94	0.002851	± 2.5	PASS
	HCH	VL	TN	4.71	0.002685	± 2.5	PASS
		VN	TN	2.81	0.001602	± 2.5	PASS
		VH	TN	0.07	0.000040	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.89	0.001105	± 2.5	PASS
		VN	-20	-0.51	-0.000298	± 2.5	PASS
		VN	-10	-1.38	-0.000807	± 2.5	PASS
		VN	0	4.15	0.002426	± 2.5	PASS
		VN	10	-0.12	-0.000070	± 2.5	PASS
		VN	20	1.2	0.000701	± 2.5	PASS
		VN	30	4.01	0.002344	± 2.5	PASS
		VN	40	3.72	0.002175	± 2.5	PASS
		VN	50	2	0.001169	± 2.5	PASS
	MCH	VN	-30	-0.93	-0.000537	± 2.5	PASS

		VN	-20	1.25	0.000722	$\pm 2.5$	PASS
		VN	-10	2.07	0.001195	$\pm 2.5$	PASS
		VN	0	0.17	0.000098	$\pm 2.5$	PASS
		VN	10	0.67	0.000387	$\pm 2.5$	PASS
		VN	20	0.22	0.000127	$\pm 2.5$	PASS
		VN	30	-1.38	-0.000797	$\pm 2.5$	PASS
		VN	40	3.74	0.002159	$\pm 2.5$	PASS
		VN	50	3.25	0.001876	$\pm 2.5$	PASS
	HCH	VN	-30	1.61	0.000918	$\pm 2.5$	PASS
		VN	-20	4.42	0.002520	$\pm 2.5$	PASS
		VN	-10	1.23	0.000701	$\pm 2.5$	PASS
		VN	0	-1.88	-0.001072	$\pm 2.5$	PASS
		VN	10	1.89	0.001077	$\pm 2.5$	PASS
		VN	20	-1.66	-0.000946	$\pm 2.5$	PASS
		VN	30	1.66	0.000946	$\pm 2.5$	PASS
		VN	40	2.14	0.001220	$\pm 2.5$	PASS
		VN	50	-0.48	-0.000274	$\pm 2.5$	PASS
16QAM	LCH	VN	-30	2.15	0.001257	$\pm 2.5$	PASS
		VN	-20	2.14	0.001251	$\pm 2.5$	PASS
		VN	-10	3.16	0.001847	$\pm 2.5$	PASS
		VN	0	4.58	0.002677	$\pm 2.5$	PASS
		VN	10	4.64	0.002712	$\pm 2.5$	PASS
		VN	20	4.26	0.002490	$\pm 2.5$	PASS
		VN	30	4.93	0.002882	$\pm 2.5$	PASS
		VN	40	3.02	0.001765	$\pm 2.5$	PASS
		VN	50	0.64	0.000374	$\pm 2.5$	PASS
	MCH	VN	-30	2.77	0.001579	$\pm 2.5$	PASS
		VN	-20	1.97	0.001123	$\pm 2.5$	PASS
		VN	-10	-0.01	-0.000006	$\pm 2.5$	PASS
		VN	0	-0.38	-0.000217	$\pm 2.5$	PASS
		VN	10	-0.46	-0.000262	$\pm 2.5$	PASS
		VN	20	4.02	0.002292	$\pm 2.5$	PASS
		VN	30	-0.09	-0.000051	$\pm 2.5$	PASS
		VN	40	-1.98	-0.001129	$\pm 2.5$	PASS
	HCH	VN	50	1.32	0.000752	$\pm 2.5$	PASS

		VN	30	3.03	0.001727	$\pm 2.5$	PASS
		VN	40	3.15	0.001796	$\pm 2.5$	PASS
		VN	50	-1.23	-0.000701	$\pm 2.5$	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	3.89	0.002273	$\pm 2.5$	PASS
		VN	TN	1.22	0.000713	$\pm 2.5$	PASS
		VH	TN	-1.26	-0.000736	$\pm 2.5$	PASS
	MCH	VL	TN	-1.33	-0.000768	$\pm 2.5$	PASS
		VN	TN	2.73	0.001576	$\pm 2.5$	PASS
		VH	TN	3.18	0.001835	$\pm 2.5$	PASS
	HCH	VL	TN	-1.8	-0.001027	$\pm 2.5$	PASS
		VN	TN	-1.05	-0.000599	$\pm 2.5$	PASS
		VH	TN	-1.19	-0.000679	$\pm 2.5$	PASS
16QAM	LCH	VL	TN	-0.94	-0.000549	$\pm 2.5$	PASS
		VN	TN	4.56	0.002664	$\pm 2.5$	PASS
		VH	TN	0.58	0.000339	$\pm 2.5$	PASS
	MCH	VL	TN	4.96	0.002863	$\pm 2.5$	PASS
		VN	TN	0.35	0.000202	$\pm 2.5$	PASS
		VH	TN	-0.1	-0.000058	$\pm 2.5$	PASS
	HCH	VL	TN	-1.28	-0.000730	$\pm 2.5$	PASS
		VN	TN	0.31	0.000177	$\pm 2.5$	PASS
		VH	TN	-0.49	-0.000279	$\pm 2.5$	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.95	0.002892	$\pm 2.5$	PASS
		VN	-20	3.15	0.001840	$\pm 2.5$	PASS
		VN	-10	-1.84	-0.001075	$\pm 2.5$	PASS
		VN	0	-0.58	-0.000339	$\pm 2.5$	PASS
		VN	10	4.99	0.002916	$\pm 2.5$	PASS
		VN	20	1.62	0.000947	$\pm 2.5$	PASS
		VN	30	4.61	0.002694	$\pm 2.5$	PASS
		VN	40	3.08	0.001800	$\pm 2.5$	PASS
		VN	50	3.35	0.001957	$\pm 2.5$	PASS
	MCH	VN	-30	-0.44	-0.000254	$\pm 2.5$	PASS
		VN	-20	4.92	0.002840	$\pm 2.5$	PASS

		VN	-10	-0.8	-0.000462	$\pm 2.5$	PASS
		VN	0	0.6	0.000346	$\pm 2.5$	PASS
		VN	10	2.42	0.001397	$\pm 2.5$	PASS
		VN	20	0.03	0.000017	$\pm 2.5$	PASS
		VN	30	0.16	0.000092	$\pm 2.5$	PASS
		VN	40	-0.2	-0.000115	$\pm 2.5$	PASS
		VN	50	3.49	0.002014	$\pm 2.5$	PASS
	HCH	VN	-30	0.96	0.000547	$\pm 2.5$	PASS
		VN	-20	2.48	0.001414	$\pm 2.5$	PASS
		VN	-10	3.67	0.002093	$\pm 2.5$	PASS
		VN	0	1.84	0.001049	$\pm 2.5$	PASS
		VN	10	1.5	0.000855	$\pm 2.5$	PASS
		VN	20	-1	-0.000570	$\pm 2.5$	PASS
		VN	30	0.46	0.000262	$\pm 2.5$	PASS
		VN	40	2.87	0.001637	$\pm 2.5$	PASS
		VN	50	-0.38	-0.000217	$\pm 2.5$	PASS
	LCH	VN	-30	0.05	0.000029	$\pm 2.5$	PASS
		VN	-20	-1.4	-0.000808	$\pm 2.5$	PASS
		VN	-10	4.42	0.002551	$\pm 2.5$	PASS
		VN	0	3.77	0.002176	$\pm 2.5$	PASS
		VN	10	3.51	0.002026	$\pm 2.5$	PASS
		VN	20	0.89	0.000514	$\pm 2.5$	PASS
		VN	30	3.57	0.002061	$\pm 2.5$	PASS
		VN	40	3.53	0.002038	$\pm 2.5$	PASS
		VN	50	3.32	0.001916	$\pm 2.5$	PASS
	MCH	VN	-30	4.08	0.002327	$\pm 2.5$	PASS
		VN	-20	4.15	0.002367	$\pm 2.5$	PASS
		VN	-10	0.96	0.000547	$\pm 2.5$	PASS
		VN	0	-1.5	-0.000855	$\pm 2.5$	PASS
		VN	10	3.7	0.002110	$\pm 2.5$	PASS
		VN	20	-1.96	-0.001118	$\pm 2.5$	PASS
		VN	30	-1.56	-0.000890	$\pm 2.5$	PASS
		VN	40	1.35	0.000770	$\pm 2.5$	PASS
		VN	50	4.07	0.002321	$\pm 2.5$	PASS
	HCH	VN	-30	4.4	0.002509	$\pm 2.5$	PASS
		VN	-20	1.42	0.000810	$\pm 2.5$	PASS
		VN	-10	4.81	0.002743	$\pm 2.5$	PASS
		VN	0	3.4	0.001939	$\pm 2.5$	PASS
		VN	10	3.26	0.001859	$\pm 2.5$	PASS
		VN	20	1.81	0.001032	$\pm 2.5$	PASS
		VN	30	-1.05	-0.000599	$\pm 2.5$	PASS

		VN	40	-1.98	-0.001129	$\pm 2.5$	PASS
		VN	50	2.83	0.001614	$\pm 2.5$	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	-1.41	-0.000823	$\pm 2.5$	PASS
		VN	TN	1.03	0.000601	$\pm 2.5$	PASS
		VH	TN	-0.33	-0.000193	$\pm 2.5$	PASS
	MCH	VL	TN	4.17	0.002407	$\pm 2.5$	PASS
		VN	TN	4.88	0.002817	$\pm 2.5$	PASS
		VH	TN	4.34	0.002505	$\pm 2.5$	PASS
	HCH	VL	TN	4.72	0.002693	$\pm 2.5$	PASS
		VN	TN	-1.64	-0.000936	$\pm 2.5$	PASS
		VH	TN	3.69	0.002106	$\pm 2.5$	PASS
16QAM	LCH	VL	TN	1.63	0.000952	$\pm 2.5$	PASS
		VN	TN	3.23	0.001886	$\pm 2.5$	PASS
		VH	TN	-0.55	-0.000321	$\pm 2.5$	PASS
	MCH	VL	TN	2.27	0.001310	$\pm 2.5$	PASS
		VN	TN	0.16	0.000092	$\pm 2.5$	PASS
		VH	TN	-1.56	-0.000900	$\pm 2.5$	PASS
	HCH	VL	TN	0	0.000000	$\pm 2.5$	PASS
		VN	TN	3.04	0.001735	$\pm 2.5$	PASS
		VH	TN	1.5	0.000856	$\pm 2.5$	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.02	0.000012	$\pm 2.5$	PASS
		VN	-20	2.54	0.001483	$\pm 2.5$	PASS
		VN	-10	1.73	0.001010	$\pm 2.5$	PASS
		VN	0	-0.35	-0.000204	$\pm 2.5$	PASS
		VN	10	3.84	0.002242	$\pm 2.5$	PASS
		VN	20	-1.42	-0.000829	$\pm 2.5$	PASS
		VN	30	1.74	0.001016	$\pm 2.5$	PASS
		VN	40	4.24	0.002476	$\pm 2.5$	PASS
		VN	50	0.99	0.000578	$\pm 2.5$	PASS
	MCH	VN	-30	-0.14	-0.000081	$\pm 2.5$	PASS
		VN	-20	0.8	0.000462	$\pm 2.5$	PASS
		VN	-10	1.63	0.000941	$\pm 2.5$	PASS

		VN	0	2.79	0.001610	$\pm 2.5$	PASS
		VN	10	4.76	0.002747	$\pm 2.5$	PASS
		VN	20	0.27	0.000156	$\pm 2.5$	PASS
		VN	30	-1.42	-0.000820	$\pm 2.5$	PASS
		VN	40	1.89	0.001091	$\pm 2.5$	PASS
		VN	50	-1.96	-0.001131	$\pm 2.5$	PASS
		VN	-30	3.4	0.001940	$\pm 2.5$	PASS
		VN	-20	0.79	0.000414	$\pm 2.5$	PASS
		VN	-10	0.97	0.000509	$\pm 2.5$	PASS
		VN	0	0.65	0.000341	$\pm 2.5$	PASS
16QAM	HCH	VN	10	-1.35	-0.000708	$\pm 2.5$	PASS
		VN	20	-0.46	-0.000241	$\pm 2.5$	PASS
		VN	30	0.69	0.000362	$\pm 2.5$	PASS
		VN	40	4.88	0.002558	$\pm 2.5$	PASS
		VN	50	2.79	0.001463	$\pm 2.5$	PASS
		VN	-30	-1.09	-0.000629	$\pm 2.5$	PASS
		VN	-20	-1.68	-0.000970	$\pm 2.5$	PASS
		VN	-10	2.88	0.001662	$\pm 2.5$	PASS
		VN	0	4.73	0.002730	$\pm 2.5$	PASS
16QAM	LCH	VN	10	-0.3	-0.000173	$\pm 2.5$	PASS
		VN	20	-0.99	-0.000571	$\pm 2.5$	PASS
		VN	30	3.74	0.002159	$\pm 2.5$	PASS
		VN	40	0.71	0.000410	$\pm 2.5$	PASS
		VN	50	2.36	0.001362	$\pm 2.5$	PASS
		VN	-30	-0.51	-0.000291	$\pm 2.5$	PASS
		VN	-20	4.29	0.002448	$\pm 2.5$	PASS
		VN	-10	4.51	0.002573	$\pm 2.5$	PASS
		VN	0	4.01	0.002288	$\pm 2.5$	PASS
16QAM	MCH	VN	10	1.45	0.000827	$\pm 2.5$	PASS
		VN	20	4.57	0.002608	$\pm 2.5$	PASS
		VN	30	1.45	0.000827	$\pm 2.5$	PASS
		VN	40	4.37	0.002494	$\pm 2.5$	PASS
		VN	50	-0.54	-0.000308	$\pm 2.5$	PASS
		VN	-30	3.84	0.002013	$\pm 2.5$	PASS
		VN	-20	2.45	0.001284	$\pm 2.5$	PASS
		VN	-10	3.4	0.001782	$\pm 2.5$	PASS
		VN	0	0.37	0.000194	$\pm 2.5$	PASS
16QAM	HCH	VN	10	3.96	0.002076	$\pm 2.5$	PASS
		VN	20	1.23	0.000645	$\pm 2.5$	PASS
		VN	30	3.95	0.002071	$\pm 2.5$	PASS
		VN	40	3.1	0.001625	$\pm 2.5$	PASS

		VN	50	-1.55	-0.000813	± 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	2.57	0.001499	± 2.5	PASS
		VN	TN	0.13	0.000076	± 2.5	PASS
		VH	TN	-1.97	-0.001149	± 2.5	PASS
	MCH	VL	TN	0.29	0.000167	± 2.5	PASS
		VN	TN	-0.46	-0.000266	± 2.5	PASS
		VH	TN	3.89	0.002245	± 2.5	PASS
	HCH	VL	TN	-1.14	-0.000651	± 2.5	PASS
		VN	TN	2.41	0.001377	± 2.5	PASS
		VH	TN	3.33	0.001903	± 2.5	PASS
16QAM	LCH	VL	TN	2.67	0.001557	± 2.5	PASS
		VN	TN	2.94	0.001714	± 2.5	PASS
		VH	TN	-1.74	-0.001015	± 2.5	PASS
	MCH	VL	TN	0.55	0.000317	± 2.5	PASS
		VN	TN	3.81	0.002199	± 2.5	PASS
		VH	TN	-0.27	-0.000156	± 2.5	PASS
	HCH	VL	TN	2.28	0.001303	± 2.5	PASS
		VN	TN	0.95	0.000543	± 2.5	PASS
		VH	TN	-0.35	-0.000200	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	3.26	0.001901	± 2.5	PASS
		VN	-20	-0.23	-0.000134	± 2.5	PASS
		VN	-10	3.79	0.002210	± 2.5	PASS
		VN	0	3.07	0.001790	± 2.5	PASS
		VN	10	-0.02	-0.000012	± 2.5	PASS
		VN	20	4.01	0.002338	± 2.5	PASS
		VN	30	4.87	0.002840	± 2.5	PASS
		VN	40	-0.87	-0.000507	± 2.5	PASS
		VN	50	3.66	0.002134	± 2.5	PASS
	MCH	VN	-30	-0.93	-0.000537	± 2.5	PASS
		VN	-20	0.94	0.000543	± 2.5	PASS
		VN	-10	1.69	0.000975	± 2.5	PASS
		VN	0	-0.12	-0.000069	± 2.5	PASS

		VN	10	1.43	0.000825	$\pm 2.5$	PASS
		VN	20	3.67	0.002118	$\pm 2.5$	PASS
		VN	30	3.06	0.001766	$\pm 2.5$	PASS
		VN	40	4.75	0.002742	$\pm 2.5$	PASS
		VN	50	2.76	0.001593	$\pm 2.5$	PASS
		VN	-30	-0.46	-0.000263	$\pm 2.5$	PASS
		VN	-20	2.98	0.001703	$\pm 2.5$	PASS
		VN	-10	2.73	0.001560	$\pm 2.5$	PASS
		VN	0	-0.18	-0.000103	$\pm 2.5$	PASS
		VN	10	4.01	0.002291	$\pm 2.5$	PASS
		VN	20	-0.98	-0.000560	$\pm 2.5$	PASS
		VN	30	1.37	0.000783	$\pm 2.5$	PASS
		VN	40	2.33	0.001331	$\pm 2.5$	PASS
		VN	50	2.04	0.001166	$\pm 2.5$	PASS
		VN	-30	3.63	0.002095	$\pm 2.5$	PASS
		VN	-20	4.01	0.002315	$\pm 2.5$	PASS
		VN	-10	2.99	0.001726	$\pm 2.5$	PASS
		VN	0	-1.65	-0.000952	$\pm 2.5$	PASS
		VN	10	2.8	0.001616	$\pm 2.5$	PASS
		VN	20	4.91	0.002834	$\pm 2.5$	PASS
		VN	30	0.72	0.000416	$\pm 2.5$	PASS
		VN	40	4.63	0.002672	$\pm 2.5$	PASS
		VN	50	4.3	0.002482	$\pm 2.5$	PASS
		VN	-30	-1.34	-0.000766	$\pm 2.5$	PASS
		VN	-20	-0.56	-0.000320	$\pm 2.5$	PASS
		VN	-10	4.9	0.002800	$\pm 2.5$	PASS
		VN	0	2.47	0.001411	$\pm 2.5$	PASS
		VN	10	-0.77	-0.000440	$\pm 2.5$	PASS
		VN	20	4.76	0.002720	$\pm 2.5$	PASS
		VN	30	0.35	0.000200	$\pm 2.5$	PASS
		VN	40	-1.11	-0.000634	$\pm 2.5$	PASS
		VN	50	1.92	0.001097	$\pm 2.5$	PASS
		VN	-30	-0.99	-0.000566	$\pm 2.5$	PASS
		VN	-20	-0.73	-0.000417	$\pm 2.5$	PASS
		VN	-10	3.07	0.001754	$\pm 2.5$	PASS
		VN	0	2.24	0.001280	$\pm 2.5$	PASS
		VN	10	3.4	0.001943	$\pm 2.5$	PASS
		VN	20	2.11	0.001206	$\pm 2.5$	PASS
		VN	30	4.26	0.002434	$\pm 2.5$	PASS
		VN	40	3.49	0.001994	$\pm 2.5$	PASS
		VN	50	4.85	0.002771	$\pm 2.5$	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	0.69	0.000402	± 2.5	PASS
		VN	TN	4.35	0.002533	± 2.5	PASS
		VH	TN	3.49	0.002032	± 2.5	PASS
	MCH	VL	TN	-0.52	-0.000300	± 2.5	PASS
		VN	TN	0.81	0.000468	± 2.5	PASS
		VH	TN	1.87	0.001079	± 2.5	PASS
	HCH	VL	TN	1.67	0.000956	± 2.5	PASS
		VN	TN	1.18	0.000675	± 2.5	PASS
		VH	TN	0.28	0.000160	± 2.5	PASS
16QAM	LCH	VL	TN	-0.3	-0.000175	± 2.5	PASS
		VN	TN	1.48	0.000862	± 2.5	PASS
		VH	TN	2.05	0.001194	± 2.5	PASS
	MCH	VL	TN	4.4	0.002540	± 2.5	PASS
		VN	TN	0.89	0.000514	± 2.5	PASS
		VH	TN	4.24	0.002447	± 2.5	PASS
	HCH	VL	TN	1.17	0.000670	± 2.5	PASS
		VN	TN	0.96	0.000549	± 2.5	PASS
		VH	TN	-1.47	-0.000841	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.38	0.000803	± 2.5	PASS
		VN	-20	0.7	0.000408	± 2.5	PASS
		VN	-10	2.08	0.001211	± 2.5	PASS
		VN	0	0.32	0.000186	± 2.5	PASS
		VN	10	2.22	0.001293	± 2.5	PASS
		VN	20	3.7	0.002154	± 2.5	PASS
		VN	30	2.89	0.001683	± 2.5	PASS
		VN	40	-0.22	-0.000128	± 2.5	PASS
		VN	50	4.85	0.002824	± 2.5	PASS
	MCH	VN	-30	0.38	0.000219	± 2.5	PASS
		VN	-20	2.55	0.001472	± 2.5	PASS
		VN	-10	-0.37	-0.000214	± 2.5	PASS
		VN	0	-0.29	-0.000167	± 2.5	PASS
		VN	10	-1.13	-0.000652	± 2.5	PASS
		VN	20	2.53	0.001460	± 2.5	PASS

	HCH	VN	30	1.84	0.001062	$\pm 2.5$	PASS
		VN	40	2.53	0.001460	$\pm 2.5$	PASS
		VN	50	-1.81	-0.001045	$\pm 2.5$	PASS
		VN	-30	3.26	0.001866	$\pm 2.5$	PASS
		VN	-20	1.09	0.000624	$\pm 2.5$	PASS
		VN	-10	3.29	0.001883	$\pm 2.5$	PASS
		VN	0	-1.86	-0.001064	$\pm 2.5$	PASS
		VN	10	1.72	0.000984	$\pm 2.5$	PASS
		VN	20	-1.44	-0.000824	$\pm 2.5$	PASS
		VN	30	-0.78	-0.000446	$\pm 2.5$	PASS
	LCH	VN	40	2.36	0.001351	$\pm 2.5$	PASS
		VN	50	4.24	0.002426	$\pm 2.5$	PASS
		VN	-30	-0.14	-0.000081	$\pm 2.5$	PASS
		VN	-20	-0.33	-0.000190	$\pm 2.5$	PASS
		VN	-10	3.83	0.002211	$\pm 2.5$	PASS
		VN	0	4.22	0.002436	$\pm 2.5$	PASS
		VN	10	2.33	0.001345	$\pm 2.5$	PASS
		VN	20	0.5	0.000289	$\pm 2.5$	PASS
		VN	30	2.02	0.001166	$\pm 2.5$	PASS
	MCH	VN	40	-0.65	-0.000375	$\pm 2.5$	PASS
		VN	50	-0.52	-0.000300	$\pm 2.5$	PASS
		VN	-30	1.79	0.001024	$\pm 2.5$	PASS
		VN	-20	-1.08	-0.000618	$\pm 2.5$	PASS
		VN	-10	2.44	0.001396	$\pm 2.5$	PASS
		VN	0	-0.2	-0.000114	$\pm 2.5$	PASS
		VN	10	4.88	0.002793	$\pm 2.5$	PASS
		VN	20	2.79	0.001597	$\pm 2.5$	PASS
		VN	30	1.84	0.001053	$\pm 2.5$	PASS
	HCH	VN	40	1.41	0.000807	$\pm 2.5$	PASS
		VN	50	-1.21	-0.000692	$\pm 2.5$	PASS
		VN	-30	0.7	0.000401	$\pm 2.5$	PASS
		VN	-20	2.67	0.001528	$\pm 2.5$	PASS
		VN	-10	3.35	0.001917	$\pm 2.5$	PASS
		VN	0	0.9	0.000515	$\pm 2.5$	PASS
		VN	10	3.44	0.001969	$\pm 2.5$	PASS
		VN	20	2.31	0.001322	$\pm 2.5$	PASS
		VN	30	-0.37	-0.000212	$\pm 2.5$	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	4.95	0.002878	± 2.5	PASS
		VN	TN	1.31	0.000762	± 2.5	PASS
		VH	TN	0.86	0.000500	± 2.5	PASS
	MCH	VL	TN	-1.42	-0.000820	± 2.5	PASS
		VN	TN	2.43	0.001403	± 2.5	PASS
		VH	TN	4.12	0.002378	± 2.5	PASS
	HCH	VL	TN	-1.96	-0.001123	± 2.5	PASS
		VN	TN	4.06	0.002327	± 2.5	PASS
		VH	TN	4.74	0.002716	± 2.5	PASS
16QAM	LCH	VL	TN	0.1	0.000058	± 2.5	PASS
		VN	TN	4.83	0.002808	± 2.5	PASS
		VH	TN	3.39	0.001971	± 2.5	PASS
	MCH	VL	TN	1.73	0.000999	± 2.5	PASS
		VN	TN	3.93	0.002268	± 2.5	PASS
		VH	TN	4.55	0.002626	± 2.5	PASS
	HCH	VL	TN	1.93	0.001106	± 2.5	PASS
		VN	TN	-0.58	-0.000332	± 2.5	PASS
		VH	TN	2.63	0.001507	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.6	0.000930	± 2.5	PASS
		VN	-20	2.56	0.001488	± 2.5	PASS
		VN	-10	2.62	0.001523	± 2.5	PASS
		VN	0	1.79	0.001041	± 2.5	PASS
		VN	10	3.23	0.001878	± 2.5	PASS
		VN	20	3.73	0.002169	± 2.5	PASS
		VN	30	1.31	0.000762	± 2.5	PASS
		VN	40	4.22	0.002453	± 2.5	PASS
		VN	50	-1.86	-0.001081	± 2.5	PASS
	MCH	VN	-30	4.61	0.002661	± 2.5	PASS
		VN	-20	1.1	0.000635	± 2.5	PASS
		VN	-10	-1.69	-0.000975	± 2.5	PASS
		VN	0	4.86	0.002805	± 2.5	PASS
		VN	10	-1.84	-0.001062	± 2.5	PASS
		VN	20	4.9	0.002828	± 2.5	PASS

	HCH	VN	30	4.67	0.002696	$\pm 2.5$	PASS
		VN	40	2.74	0.001582	$\pm 2.5$	PASS
		VN	50	0.78	0.000450	$\pm 2.5$	PASS
		VN	-30	4.32	0.002476	$\pm 2.5$	PASS
		VN	-20	4.98	0.002854	$\pm 2.5$	PASS
		VN	-10	-1.13	-0.000648	$\pm 2.5$	PASS
		VN	0	4.81	0.002756	$\pm 2.5$	PASS
		VN	10	1.9	0.001089	$\pm 2.5$	PASS
		VN	20	-1.51	-0.000865	$\pm 2.5$	PASS
		VN	30	-0.6	-0.000344	$\pm 2.5$	PASS
	LCH	VN	40	-1.34	-0.000768	$\pm 2.5$	PASS
		VN	50	1.27	0.000728	$\pm 2.5$	PASS
		VN	-30	3.59	0.002072	$\pm 2.5$	PASS
		VN	-20	1.51	0.000872	$\pm 2.5$	PASS
		VN	-10	2.4	0.001385	$\pm 2.5$	PASS
		VN	0	3.23	0.001864	$\pm 2.5$	PASS
		VN	10	-0.11	-0.000063	$\pm 2.5$	PASS
		VN	20	-1.2	-0.000693	$\pm 2.5$	PASS
		VN	30	2.1	0.001212	$\pm 2.5$	PASS
	MCH	VN	40	-1.26	-0.000727	$\pm 2.5$	PASS
		VN	50	-1.6	-0.000924	$\pm 2.5$	PASS
		VN	-30	-1.99	-0.001140	$\pm 2.5$	PASS
		VN	-20	-0.91	-0.000521	$\pm 2.5$	PASS
		VN	-10	2.64	0.001513	$\pm 2.5$	PASS
		VN	0	-1.68	-0.000963	$\pm 2.5$	PASS
		VN	10	0.3	0.000172	$\pm 2.5$	PASS
		VN	20	1.33	0.000762	$\pm 2.5$	PASS
		VN	30	-1.88	-0.001077	$\pm 2.5$	PASS
	HCH	VN	40	-1.14	-0.000653	$\pm 2.5$	PASS
		VN	50	-0.69	-0.000395	$\pm 2.5$	PASS
		VN	-30	0.87	0.000499	$\pm 2.5$	PASS
		VN	-20	2.17	0.001244	$\pm 2.5$	PASS
		VN	-10	1.13	0.000648	$\pm 2.5$	PASS
		VN	0	1.6	0.000917	$\pm 2.5$	PASS
		VN	10	1.33	0.000762	$\pm 2.5$	PASS
		VN	20	-0.76	-0.000436	$\pm 2.5$	PASS
		VN	30	-1.46	-0.000837	$\pm 2.5$	PASS
		VN	40	3.66	0.002097	$\pm 2.5$	PASS
		VN	50	1.57	0.000900	$\pm 2.5$	PASS