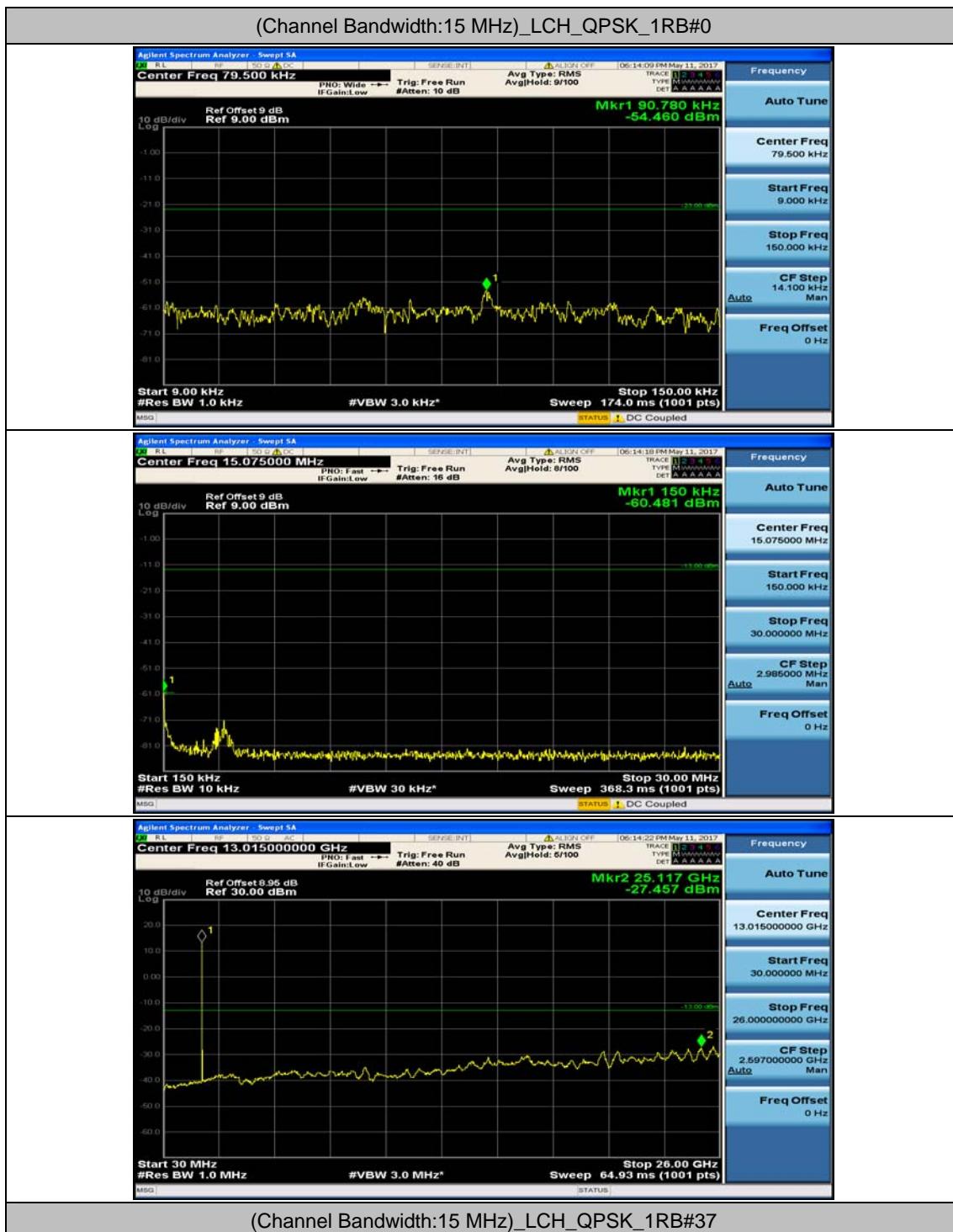
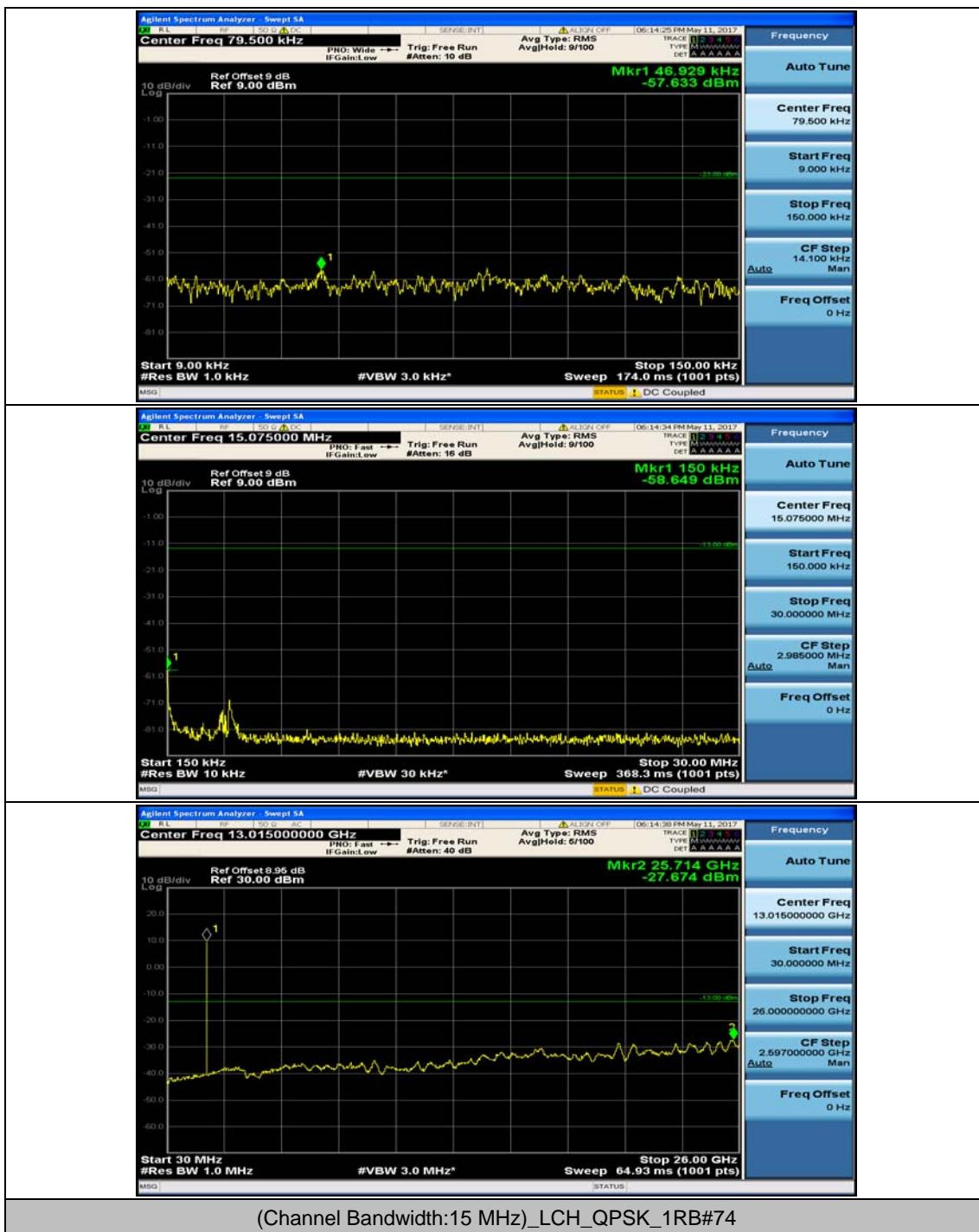
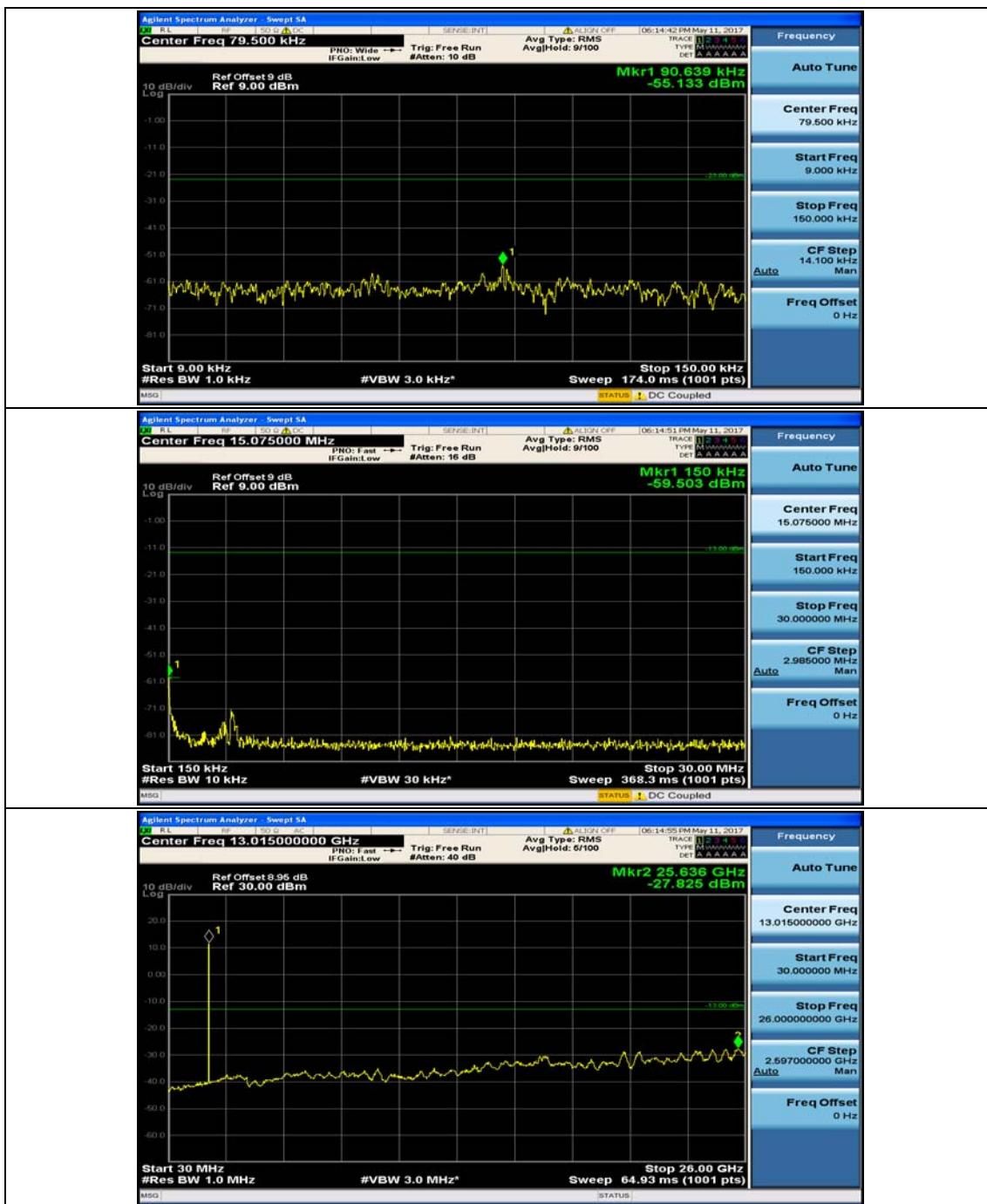
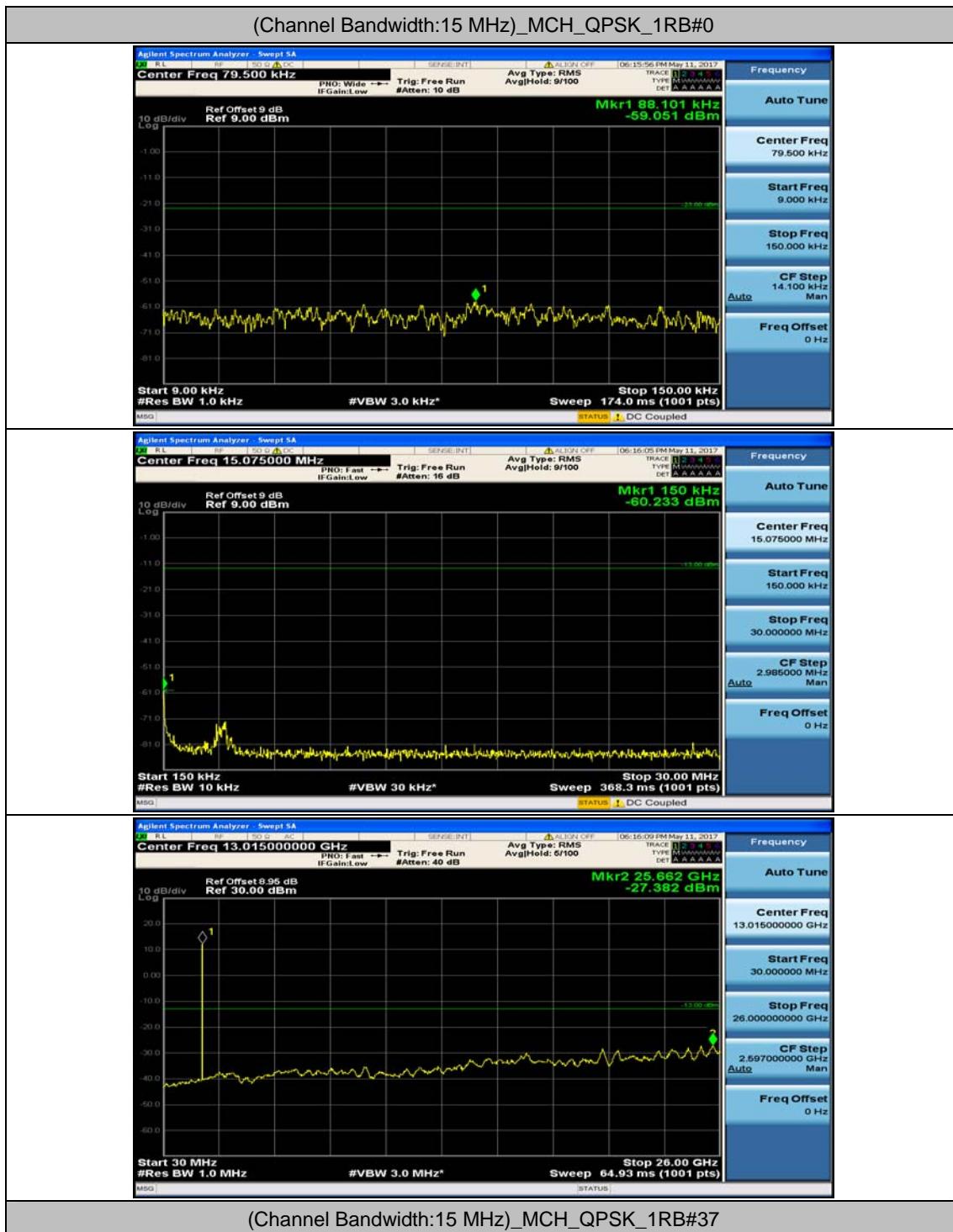


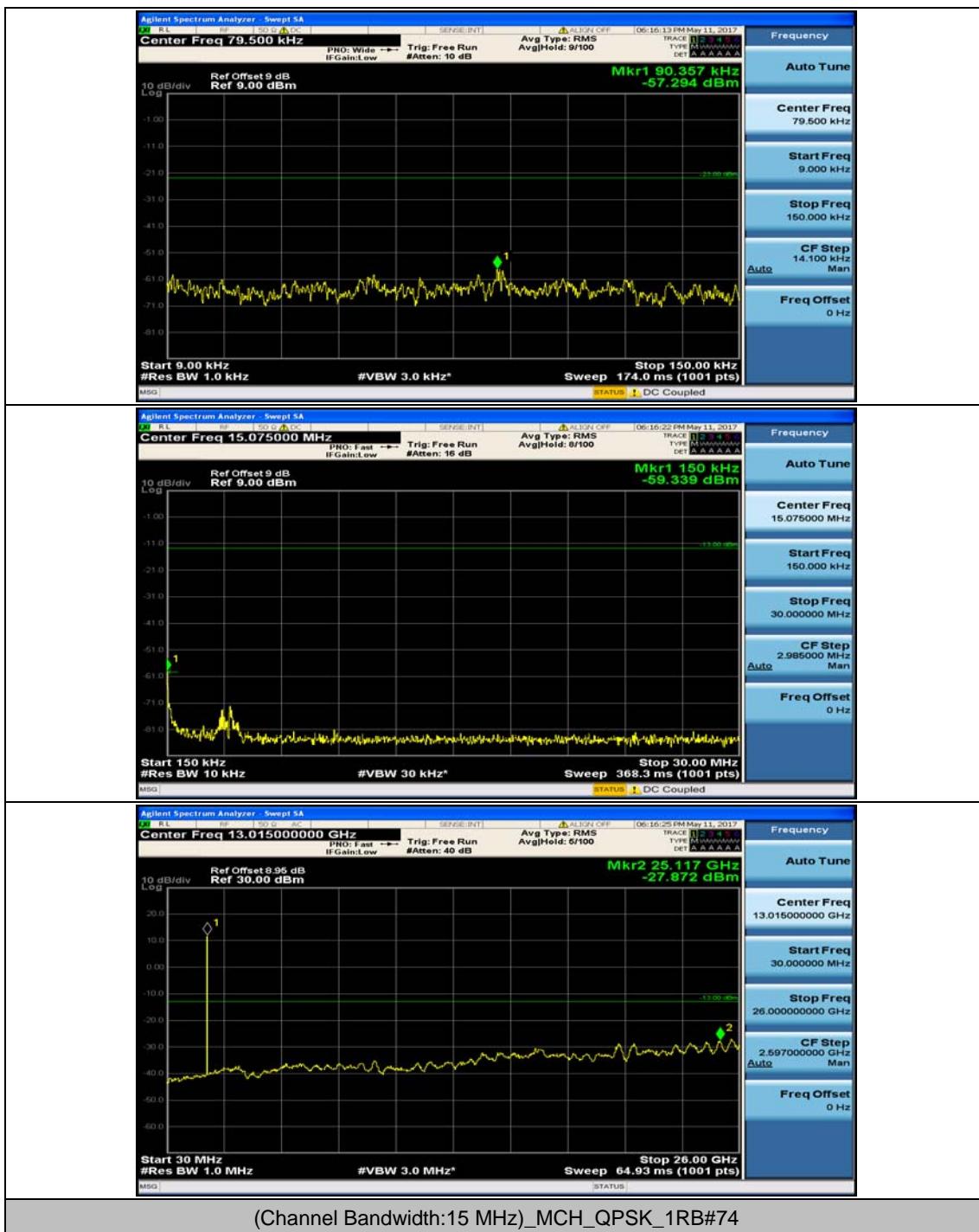
## Channel Bandwidth: 15 MHz

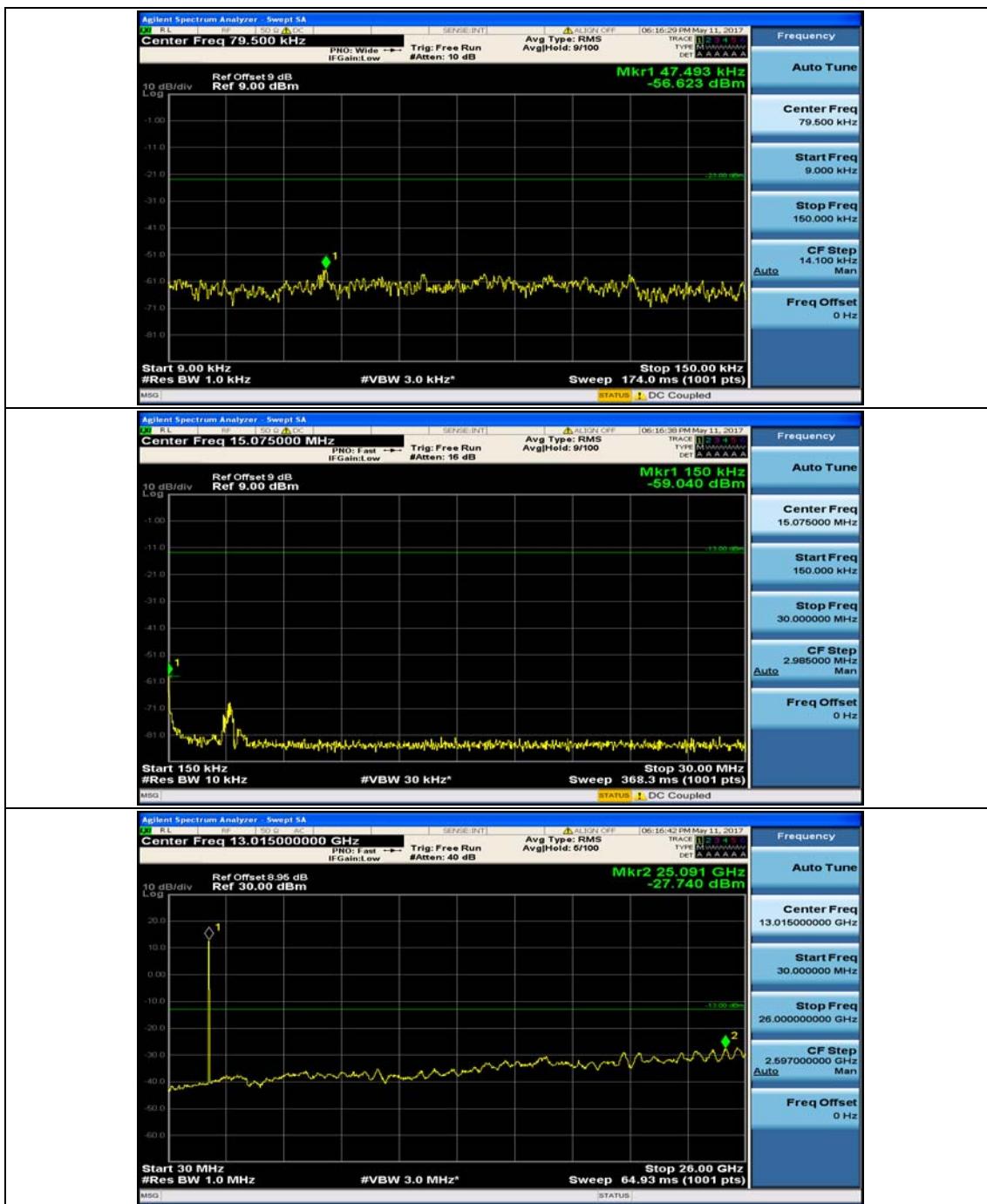


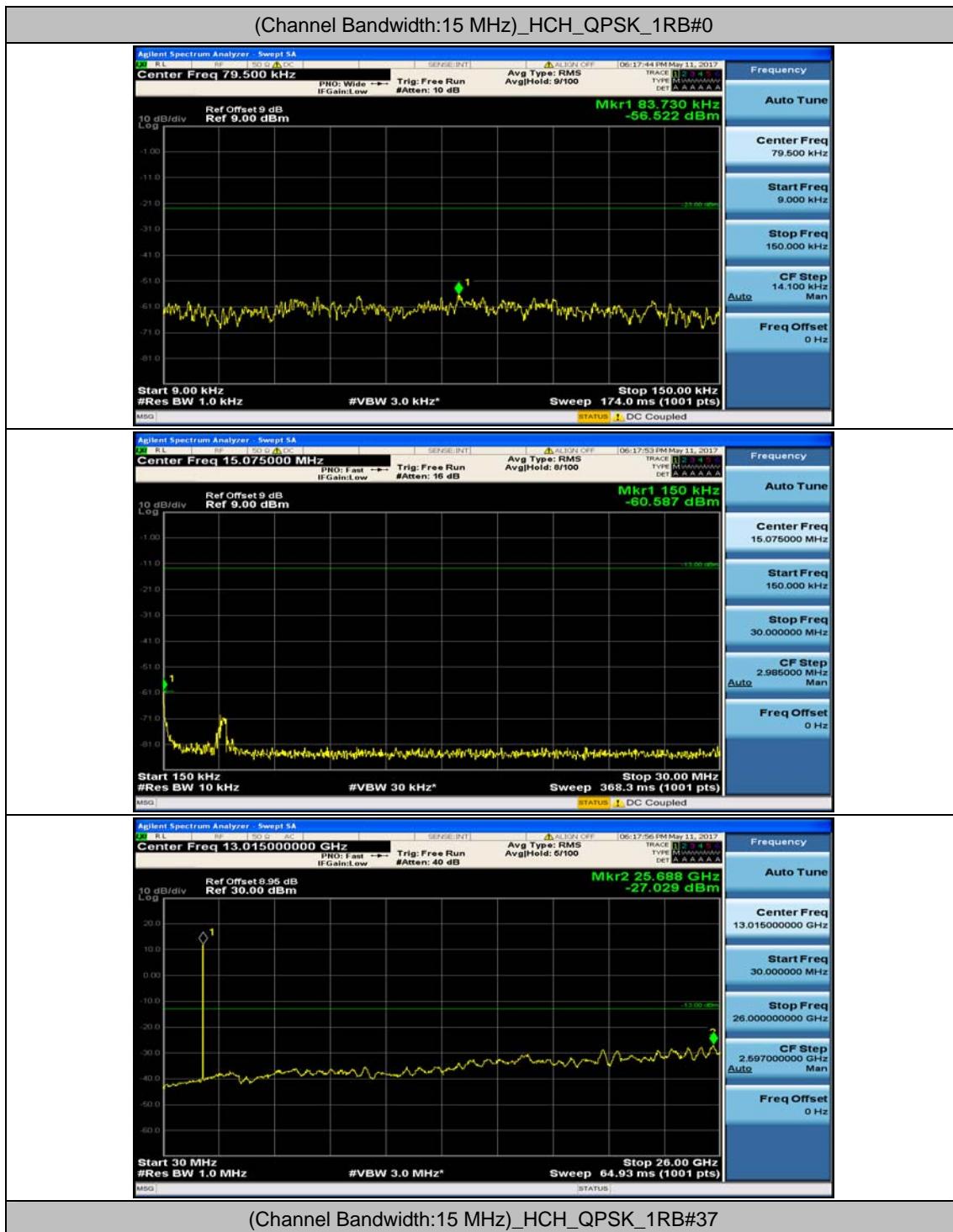


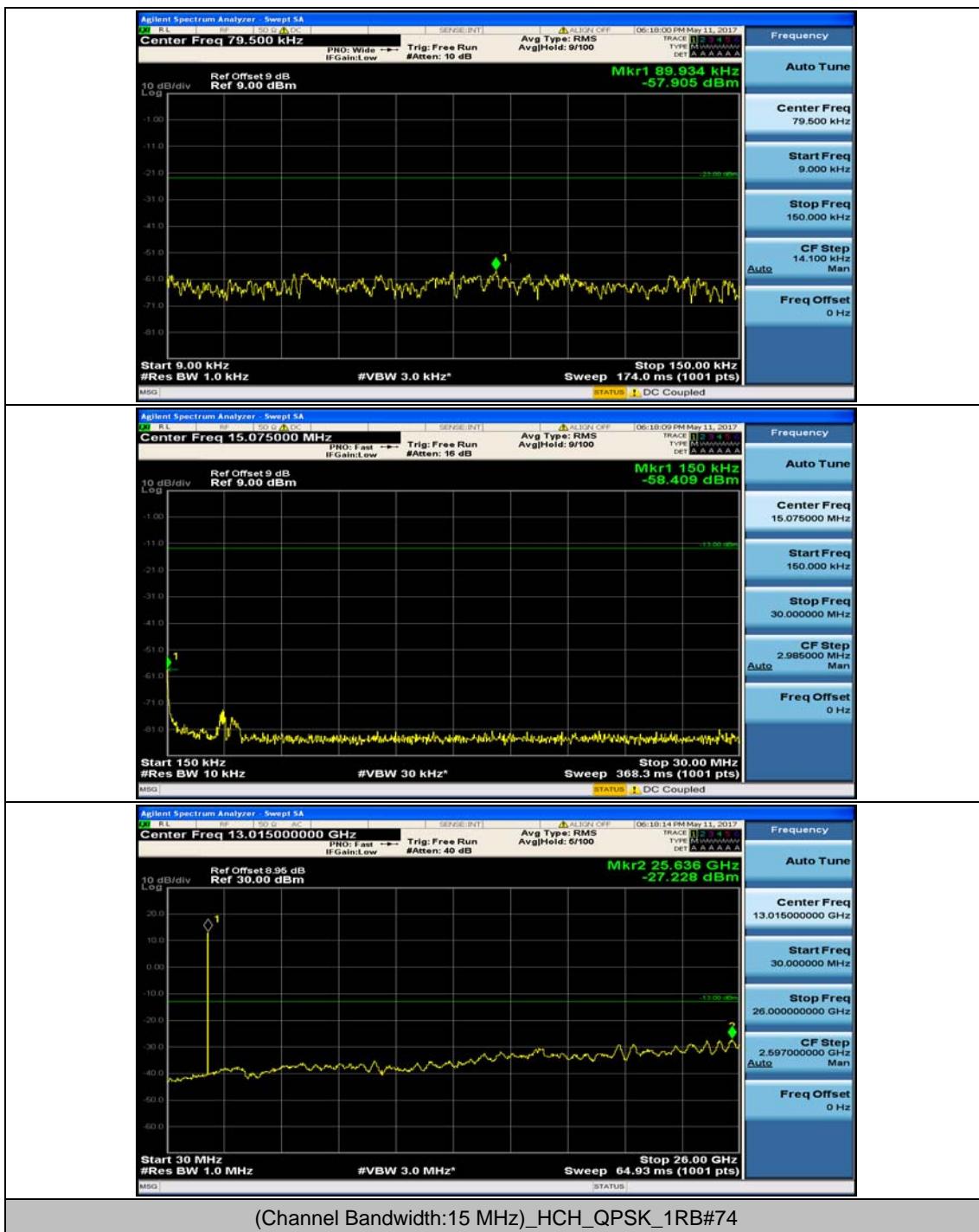


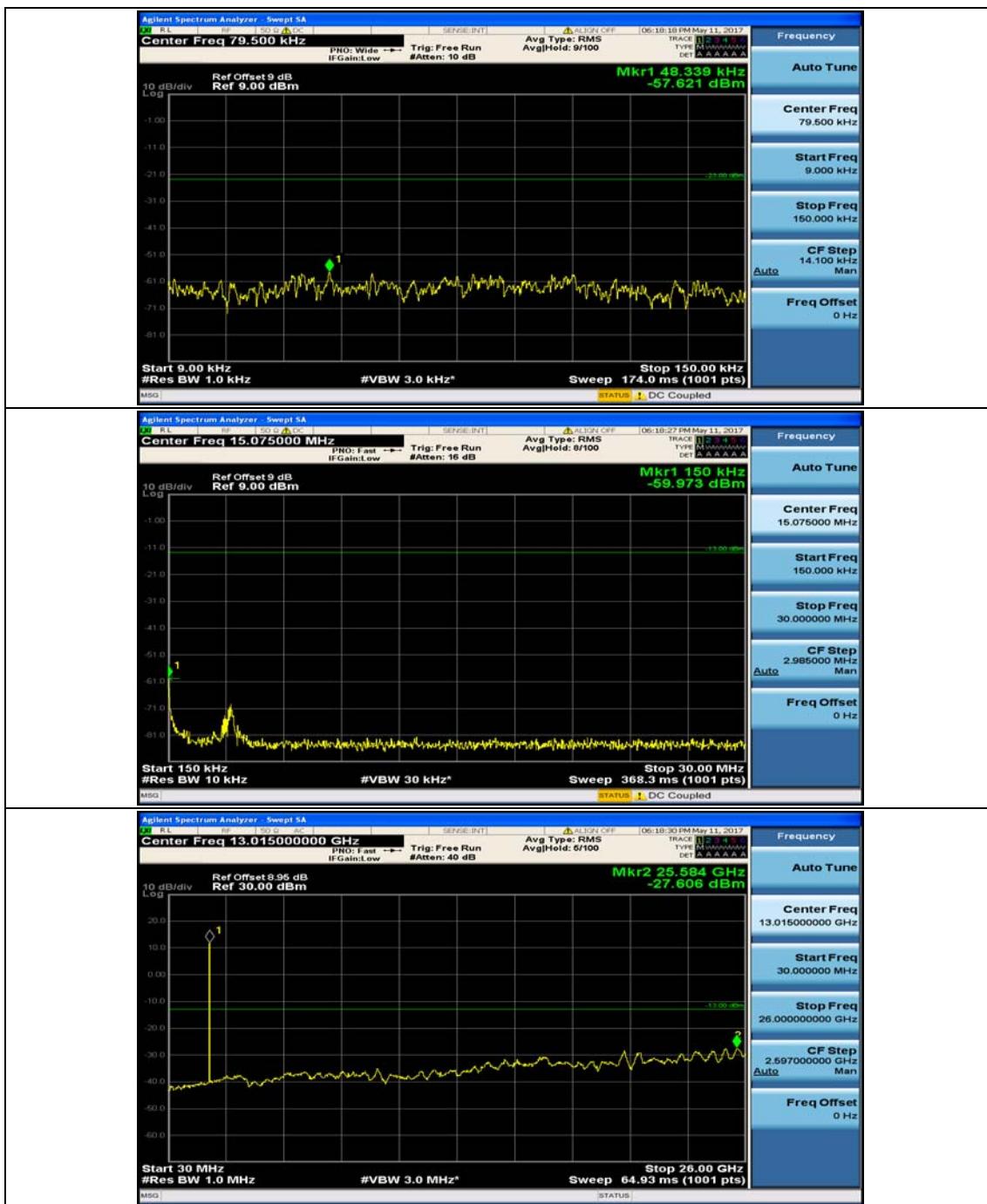


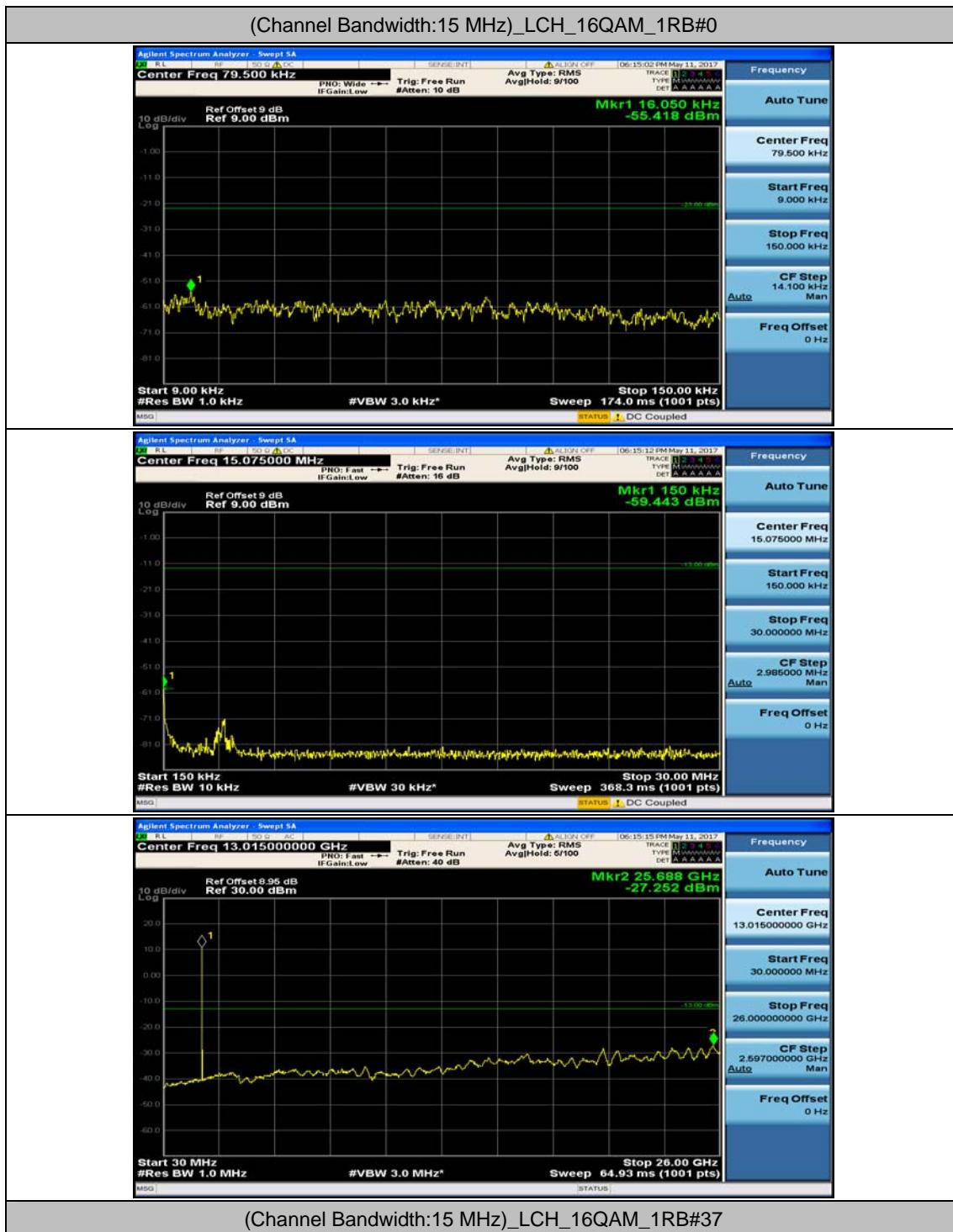


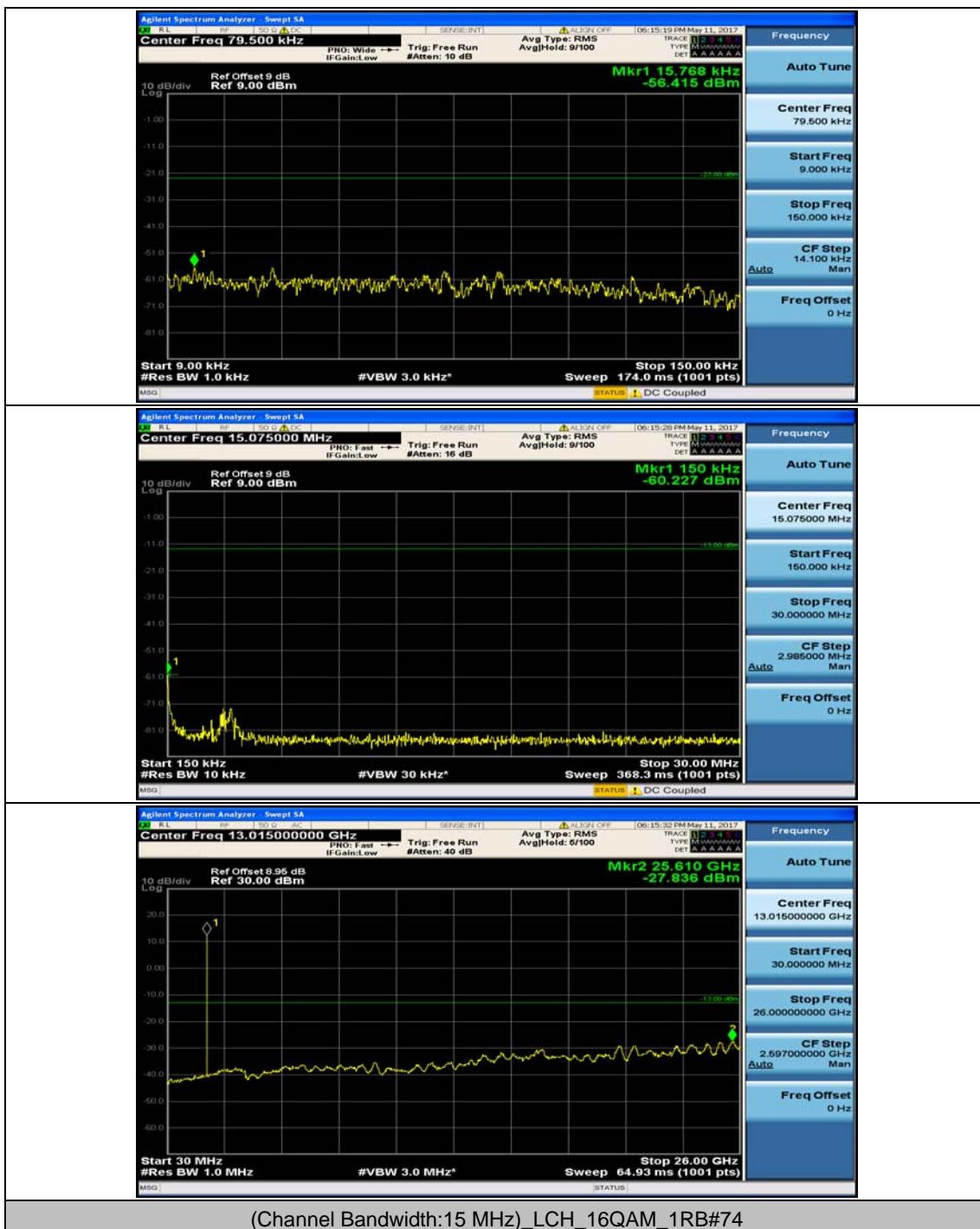


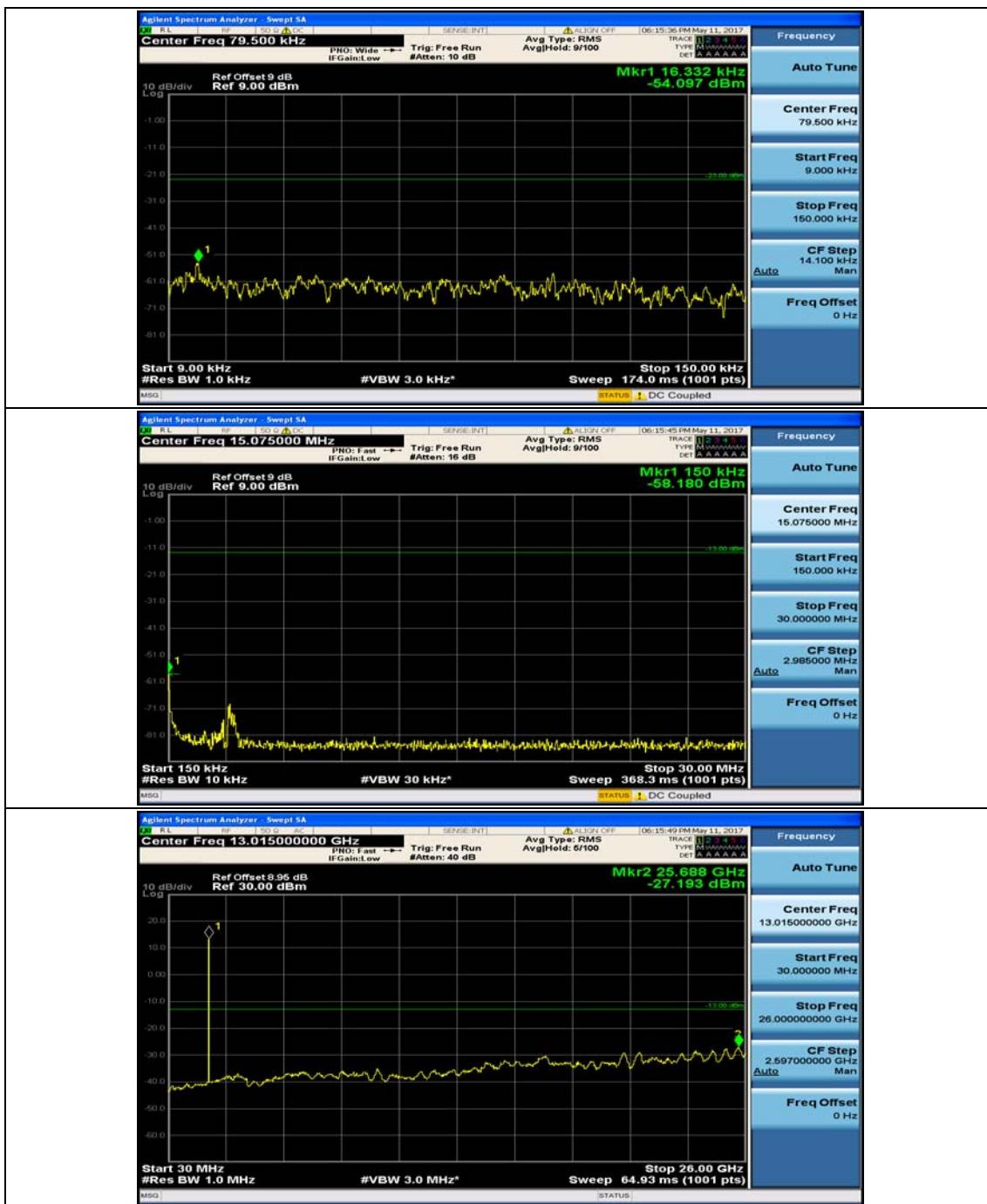


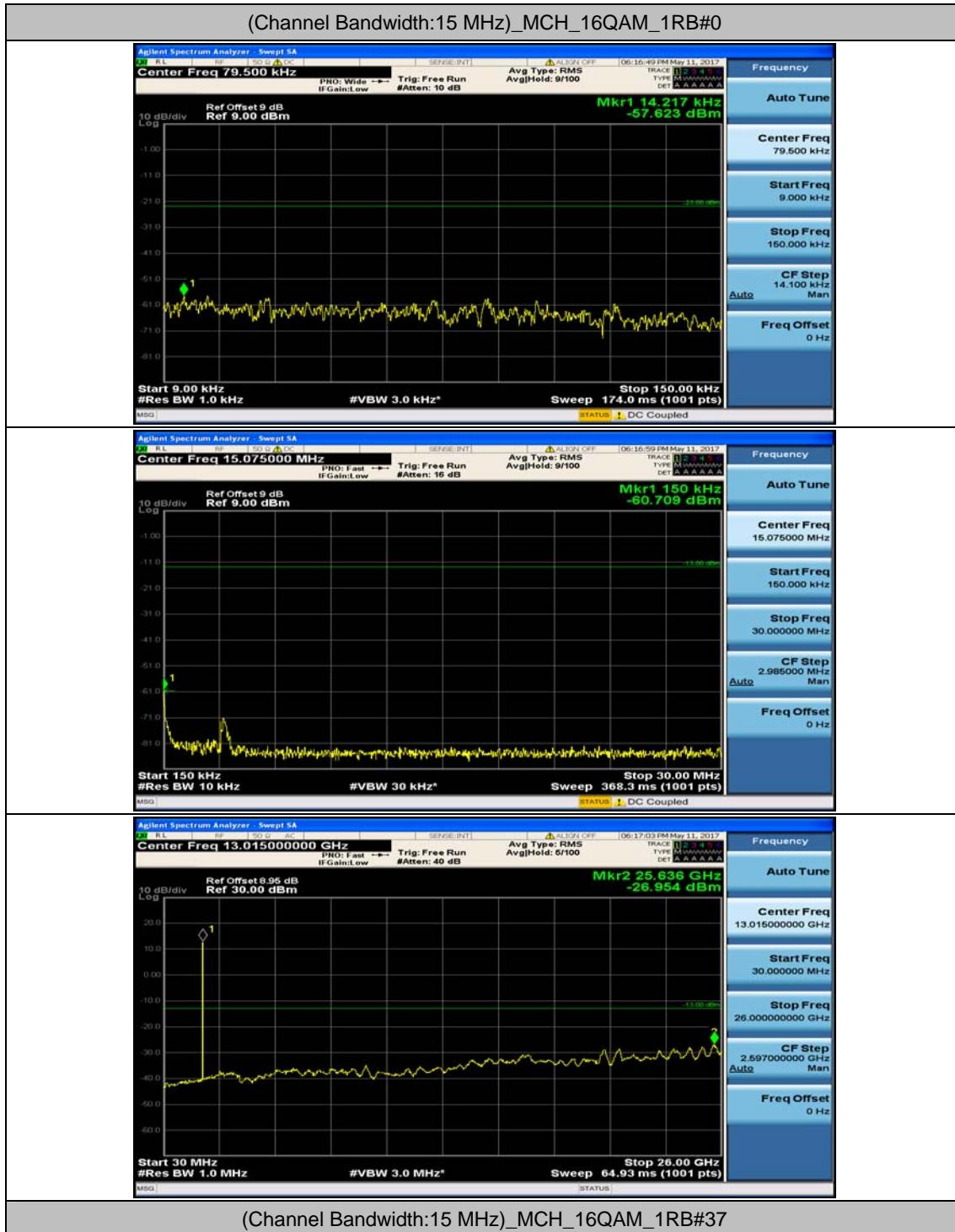


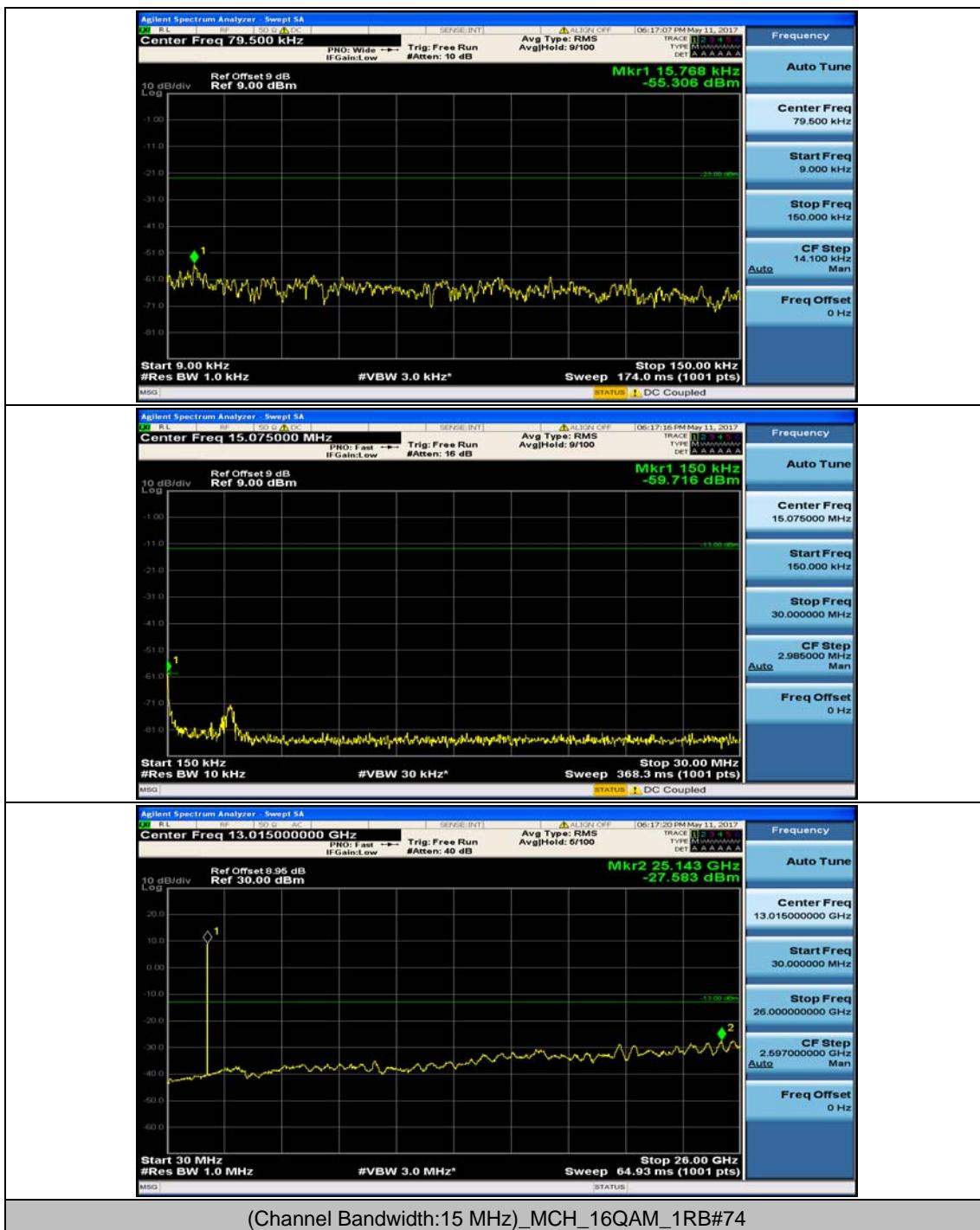




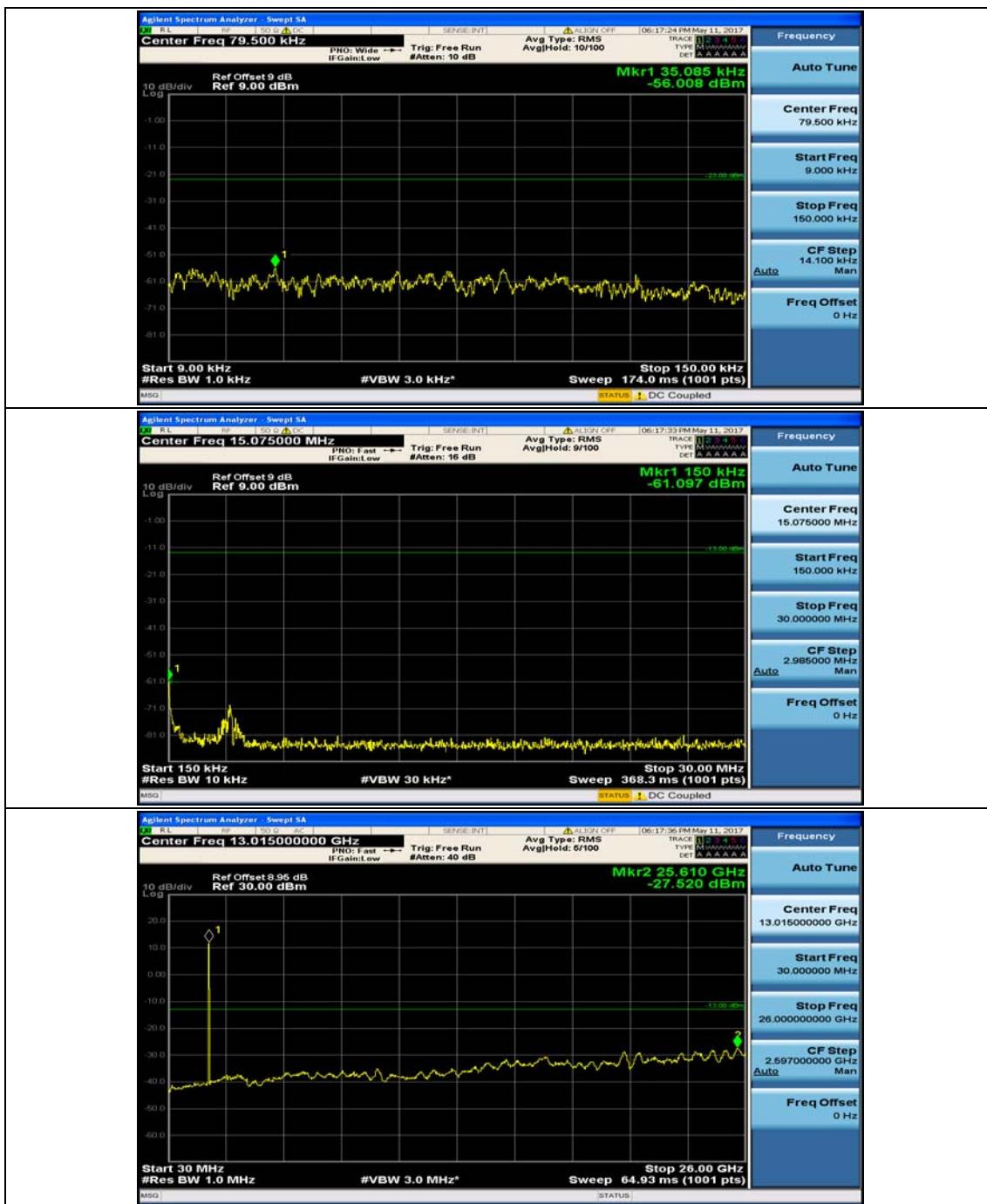


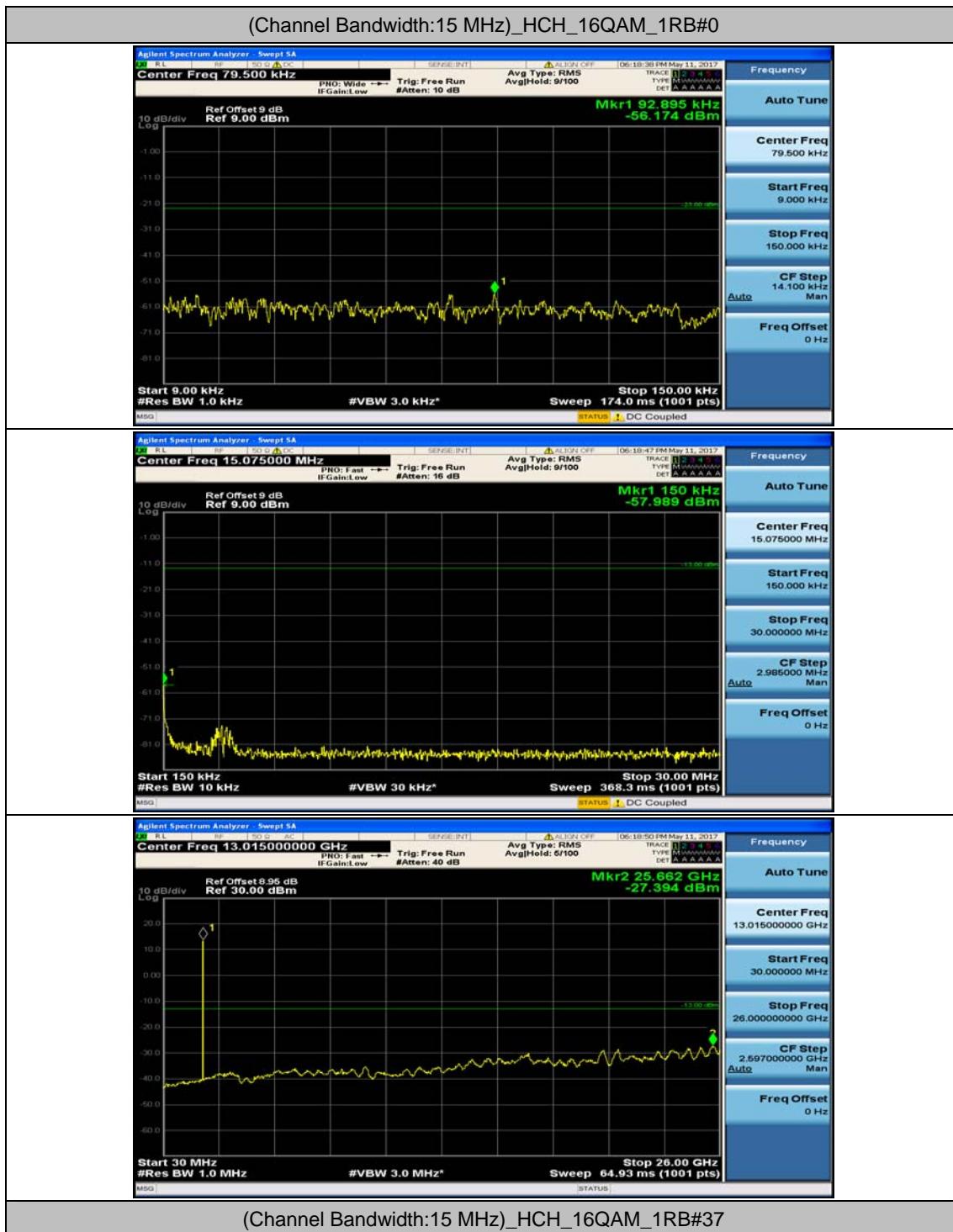


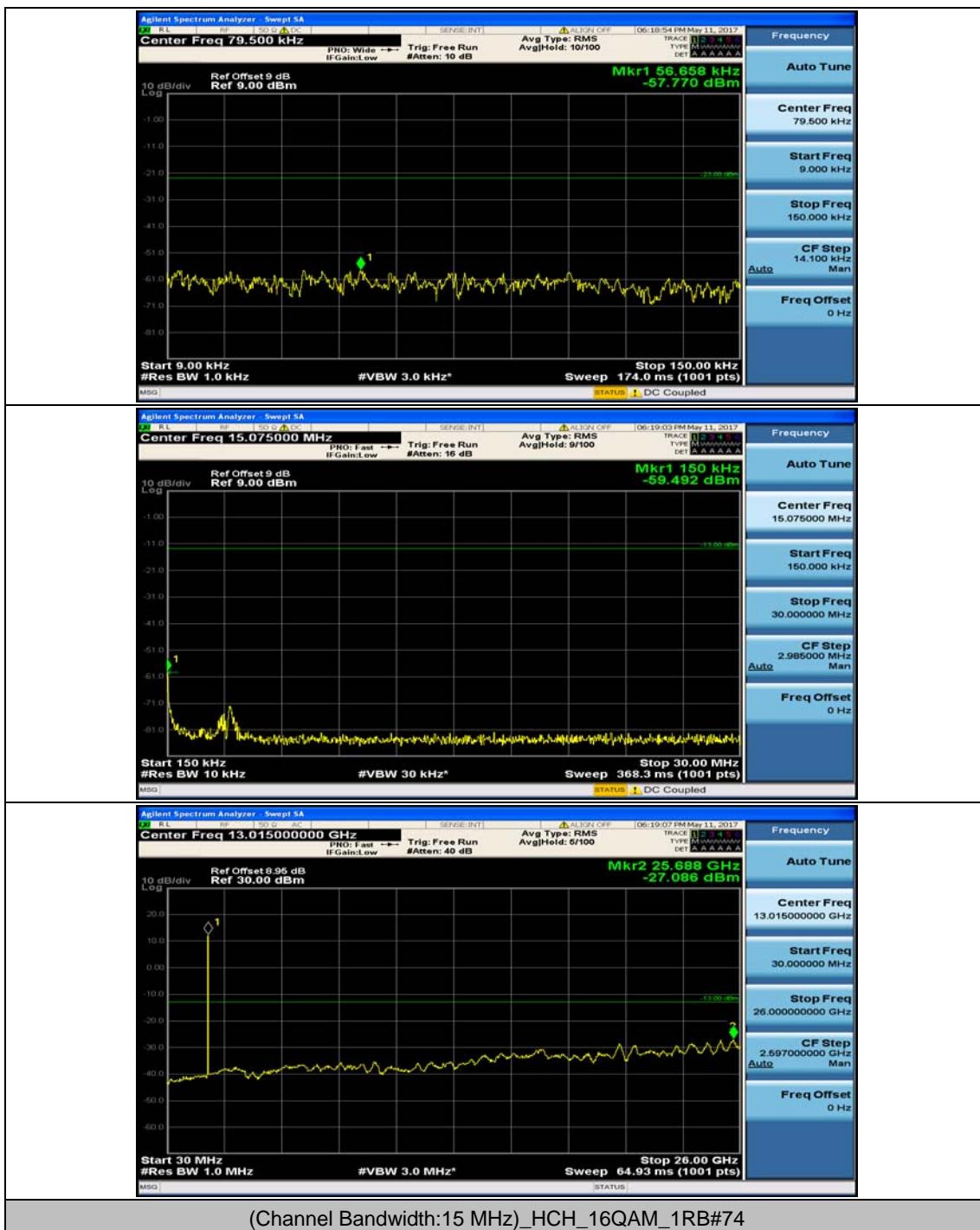


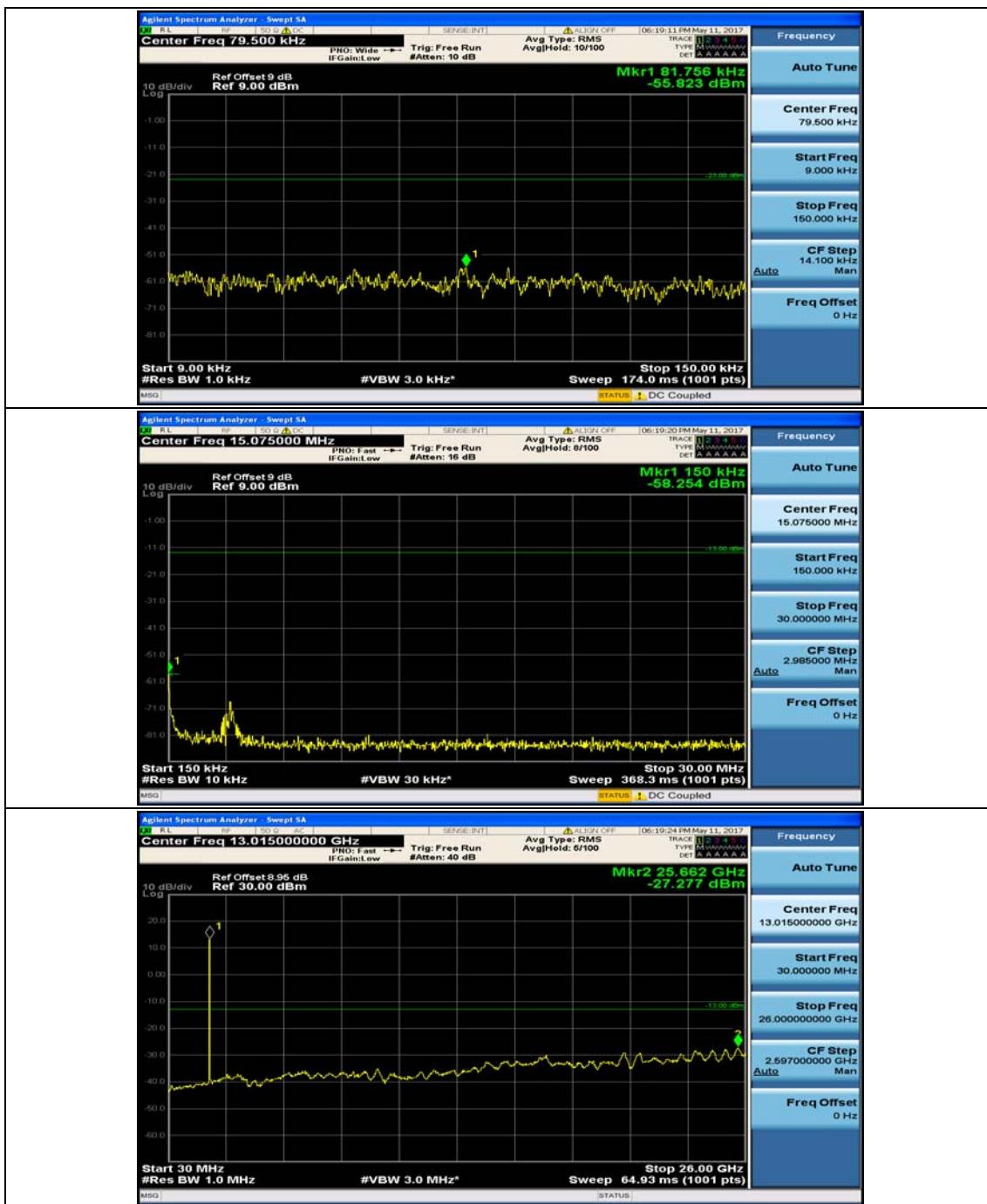


(Channel Bandwidth:15 MHz)\_MCH\_16QAM\_1RB#74

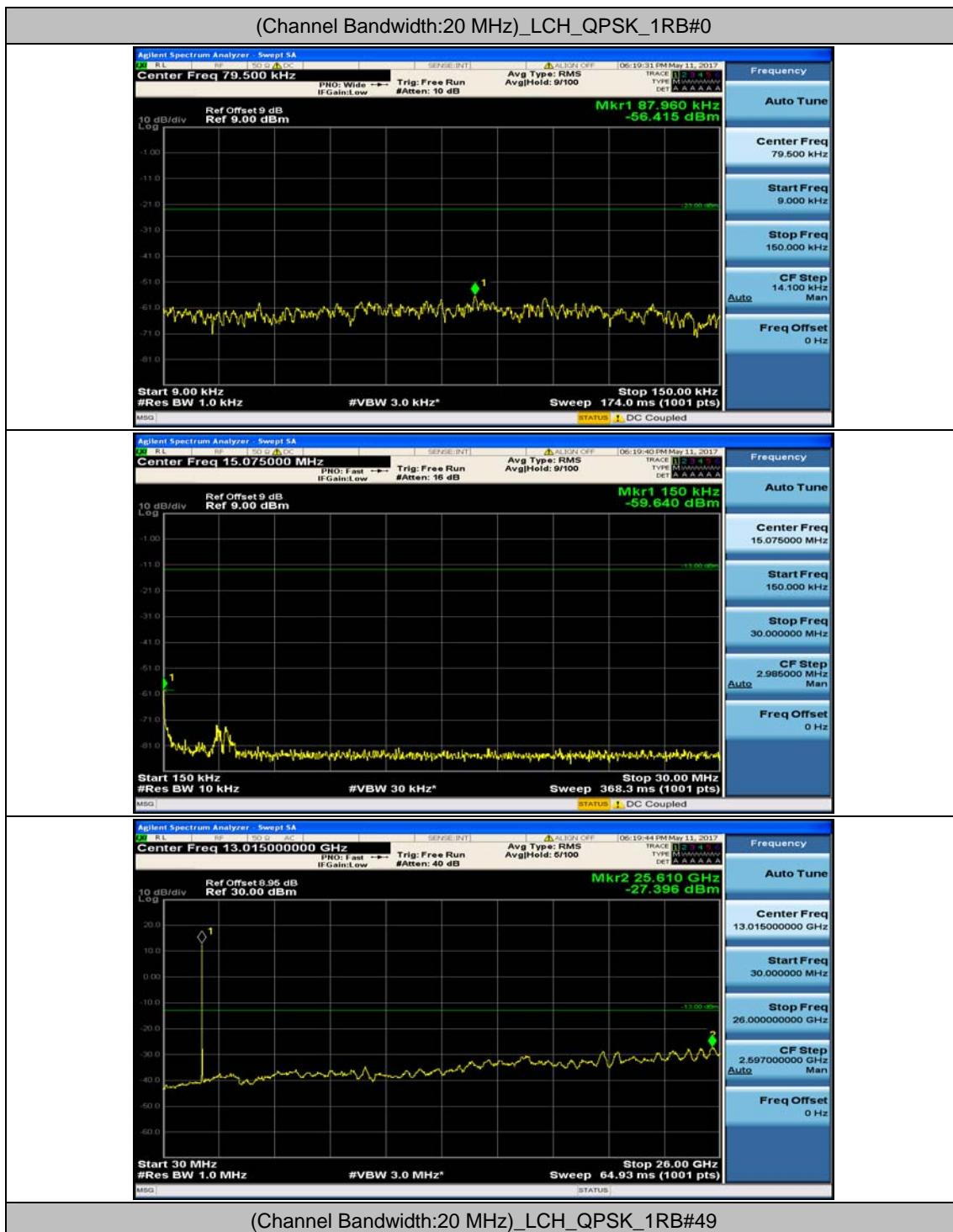


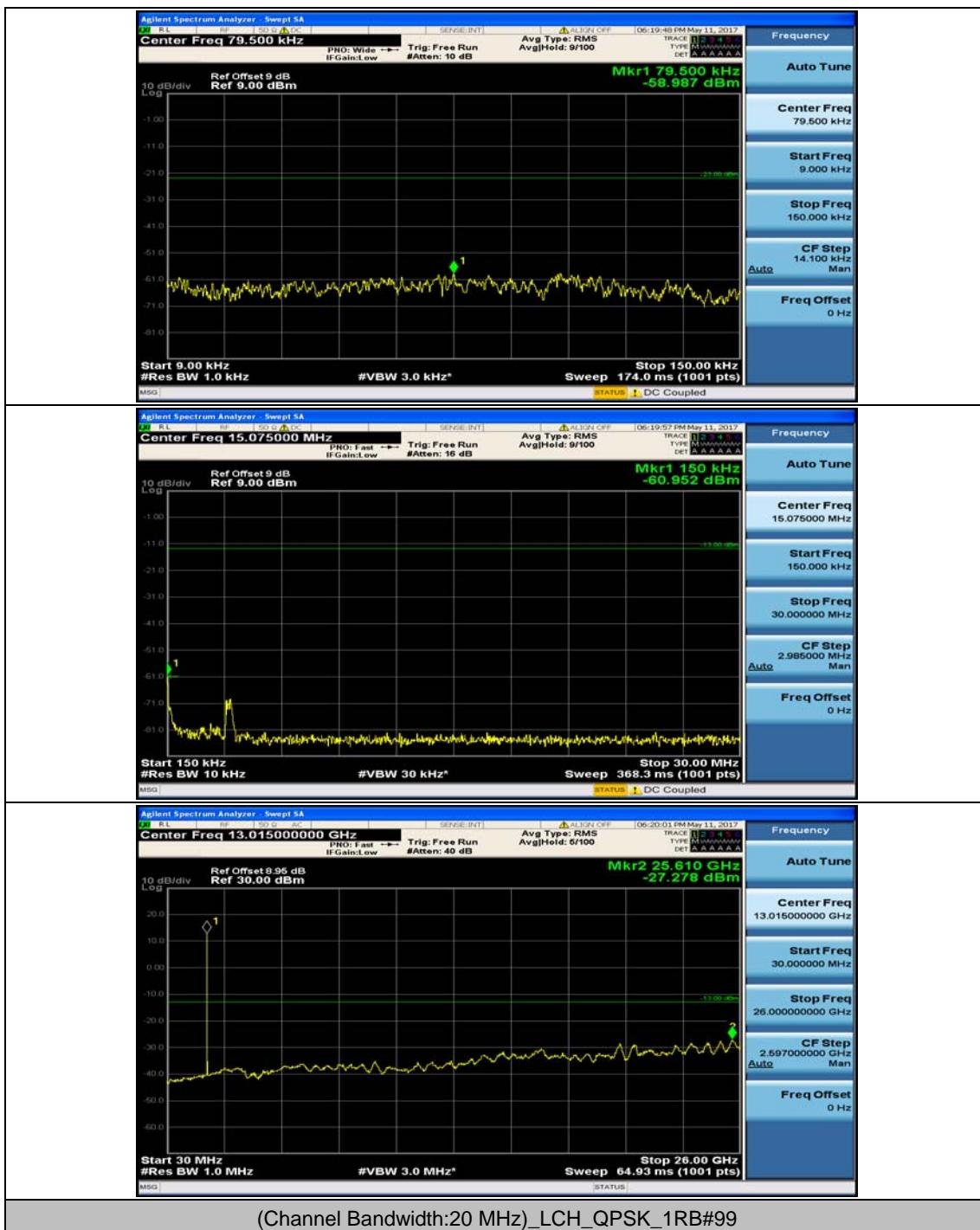


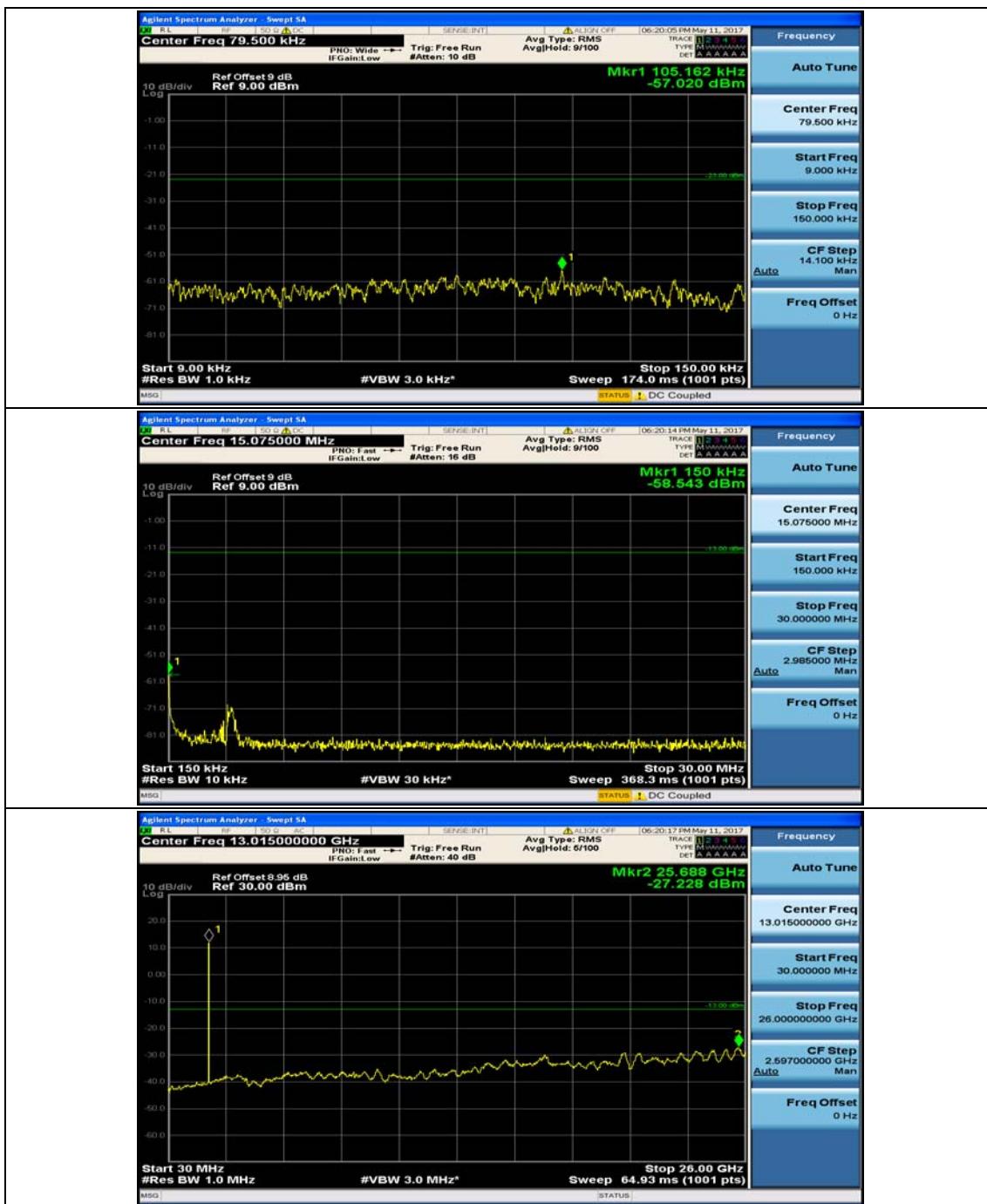


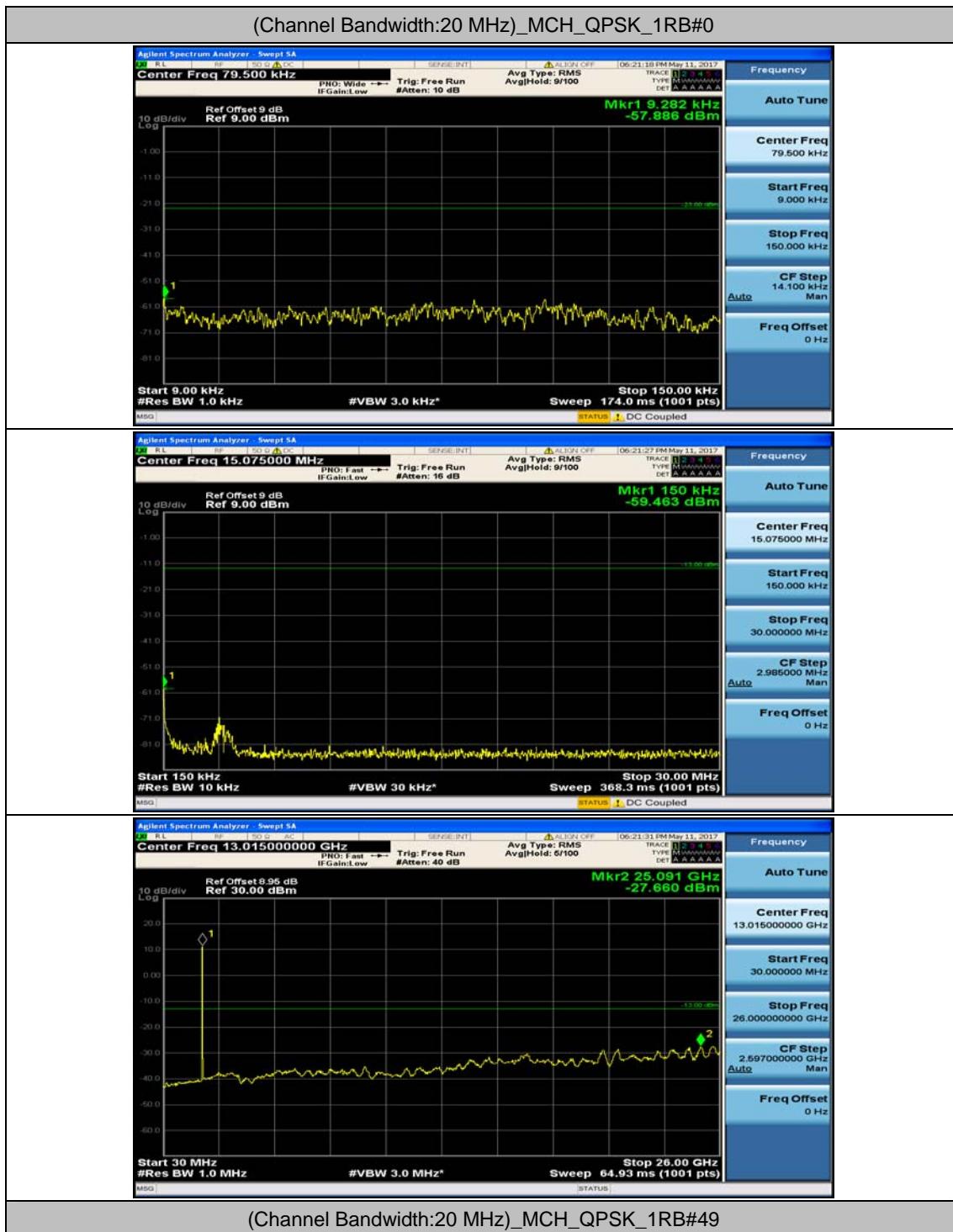


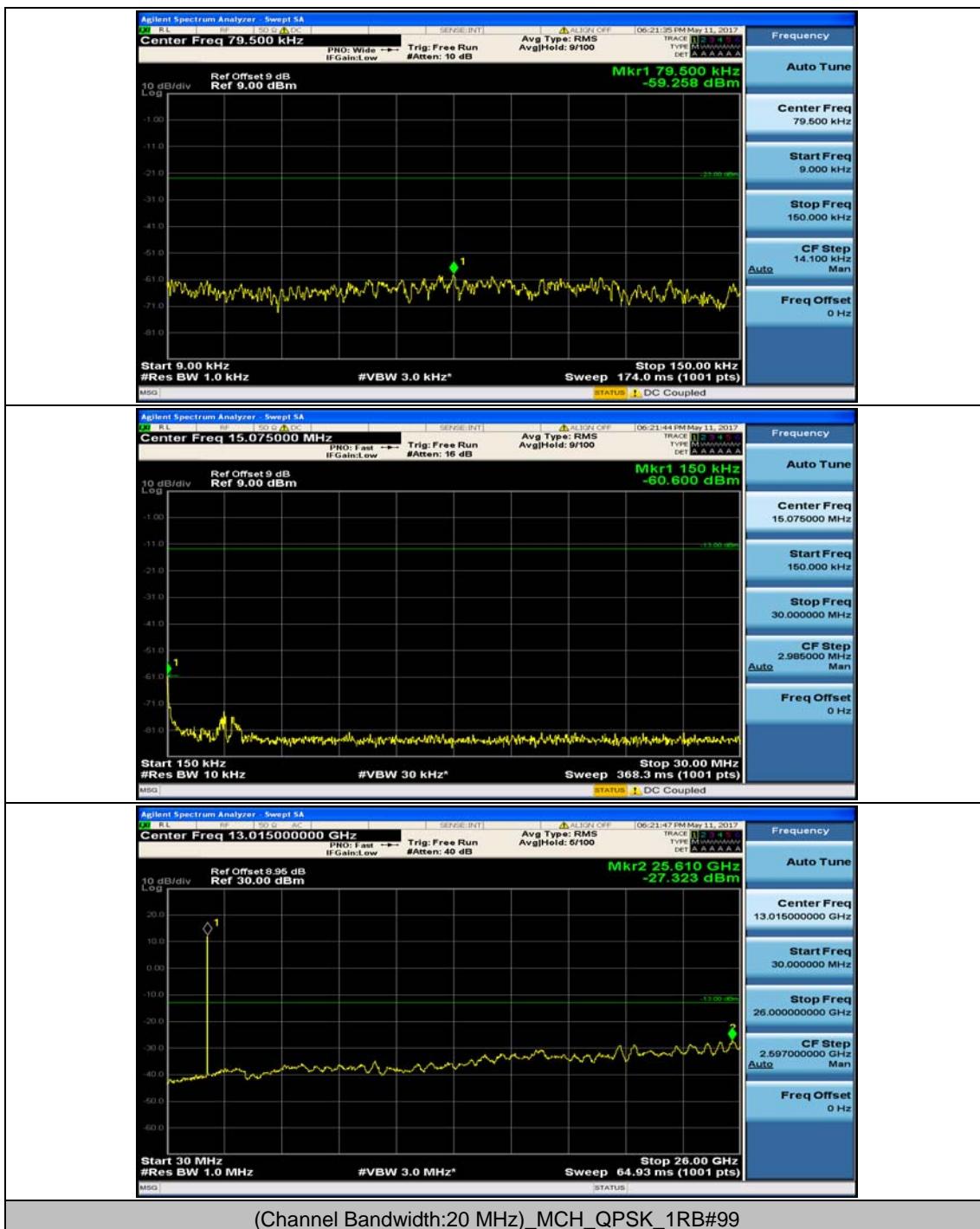
## Channel Bandwidth: 20 MHz

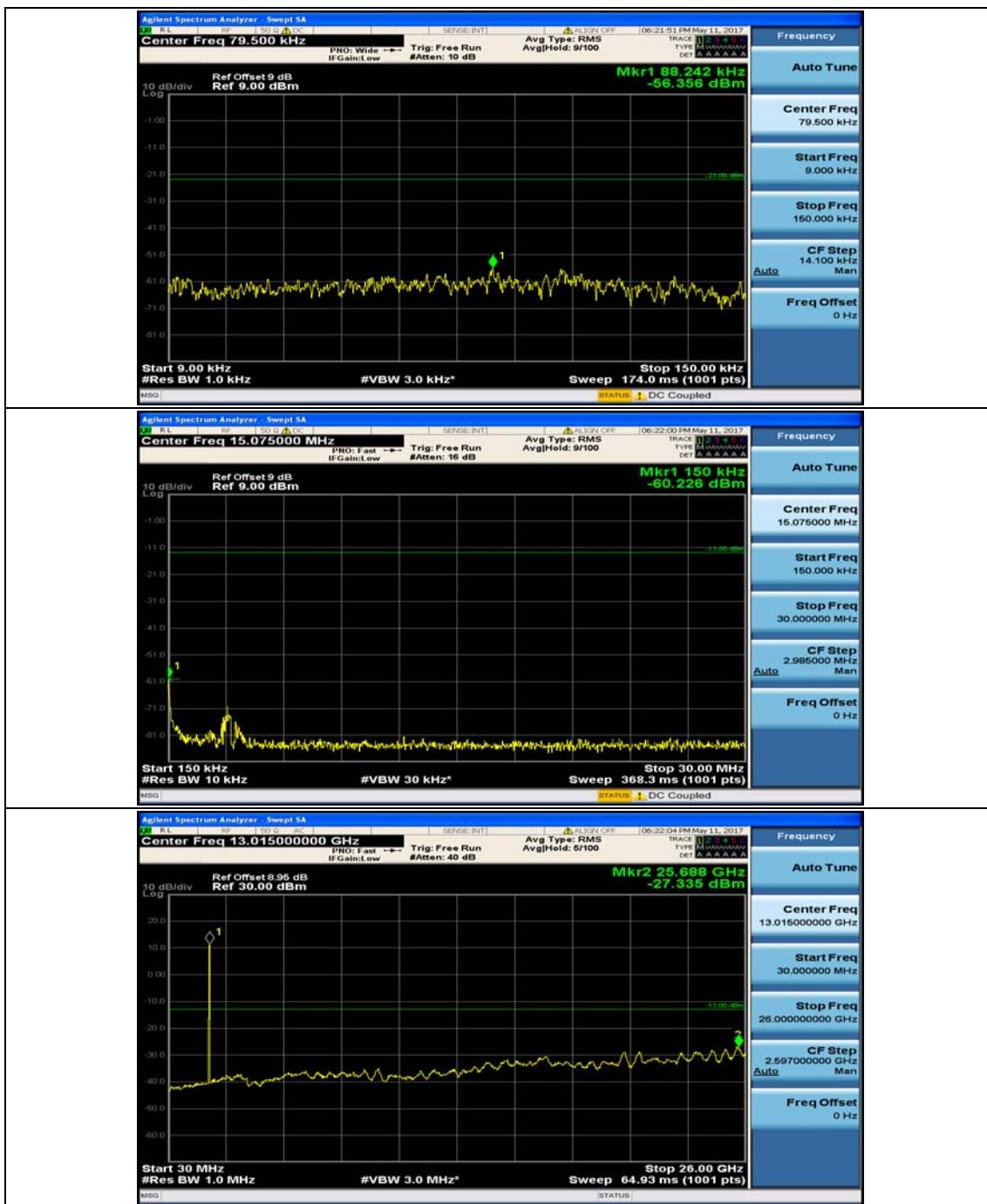


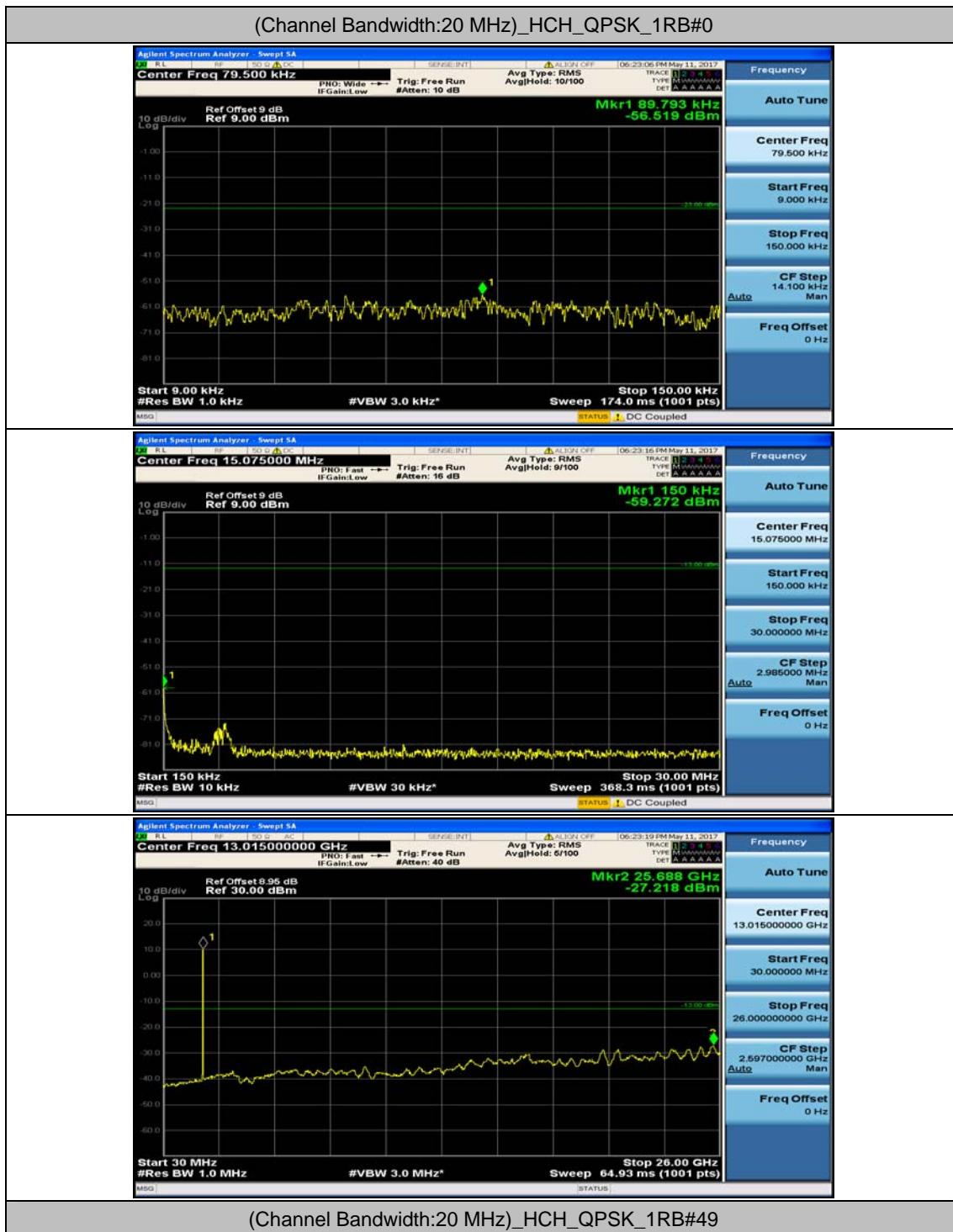


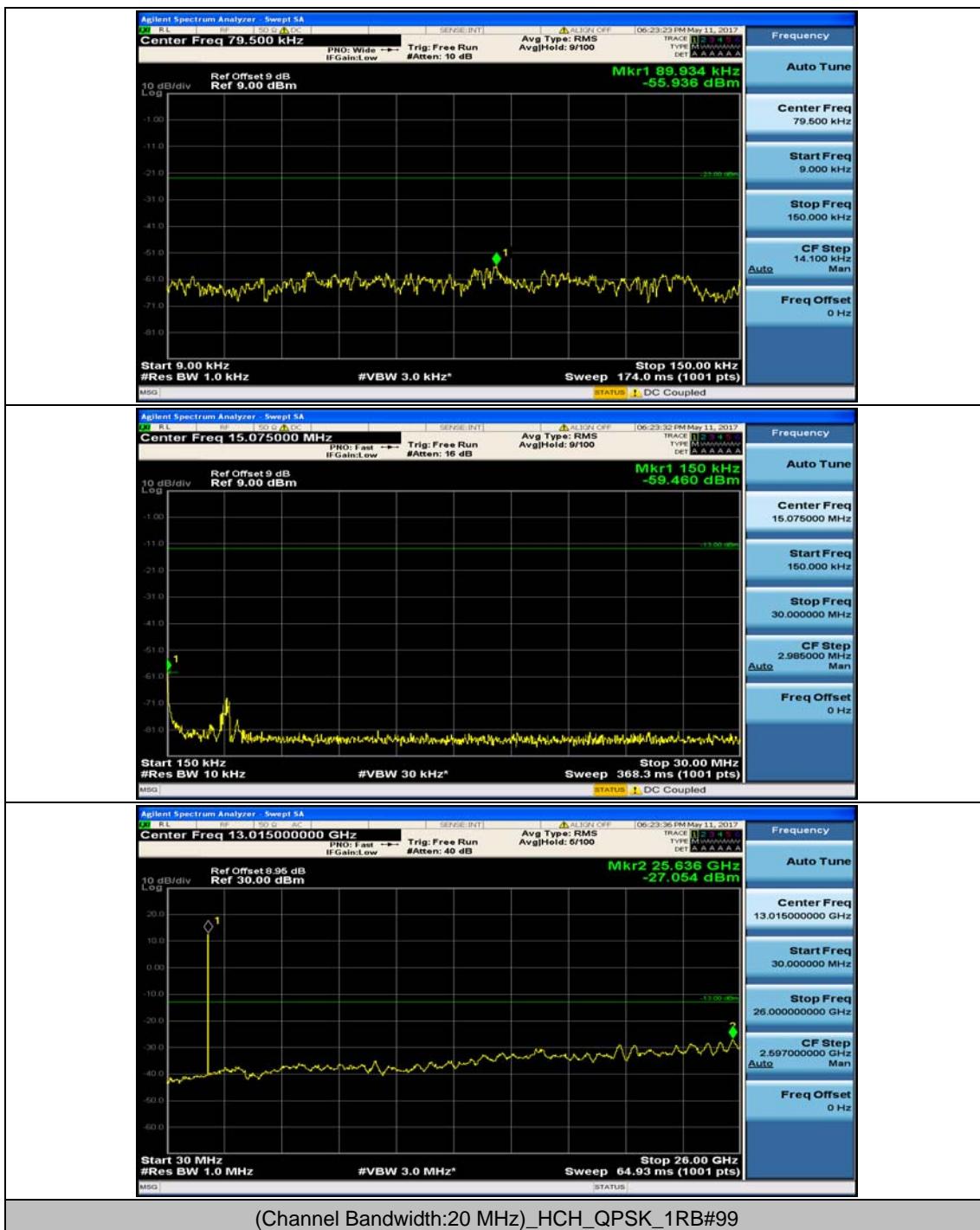


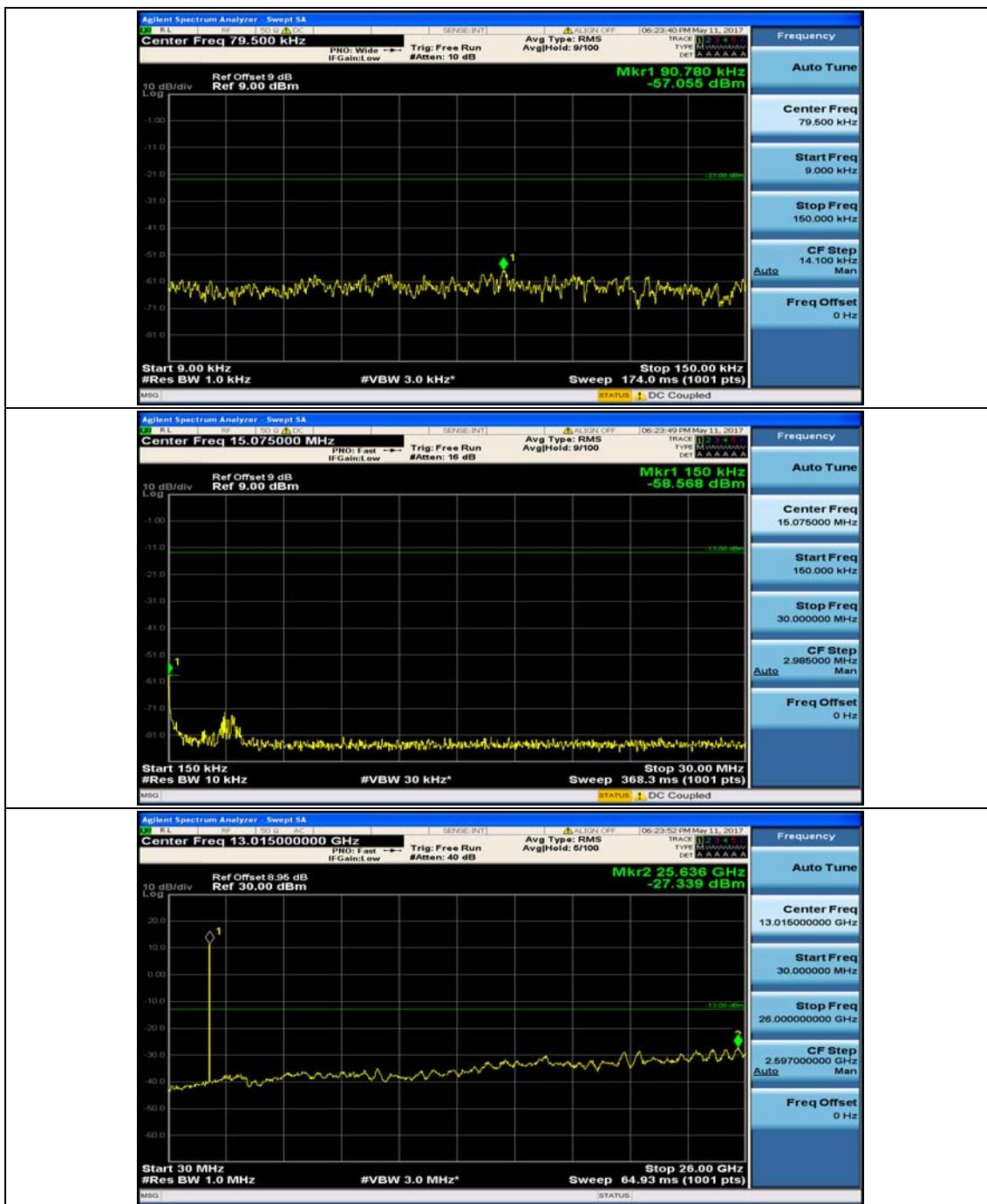


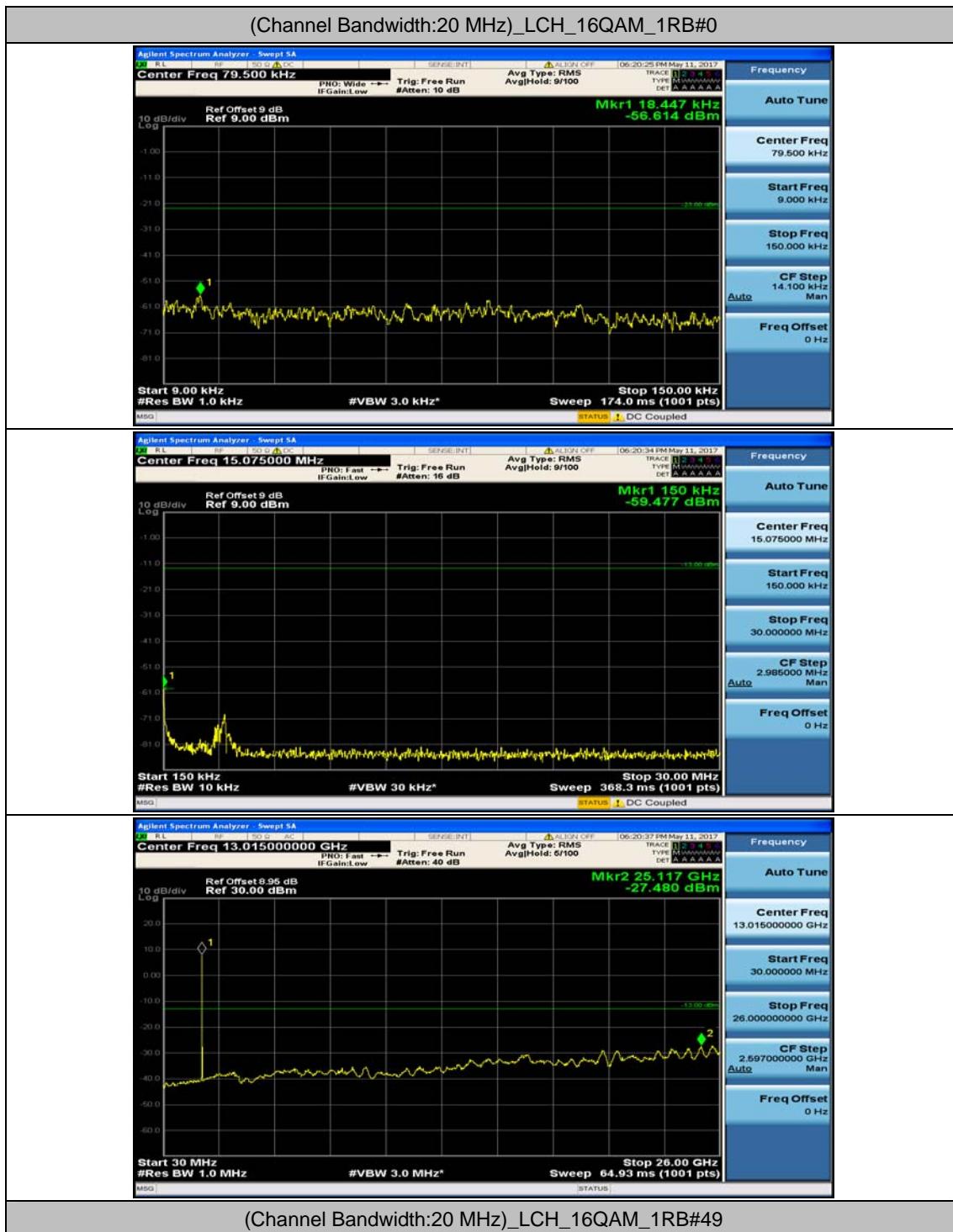


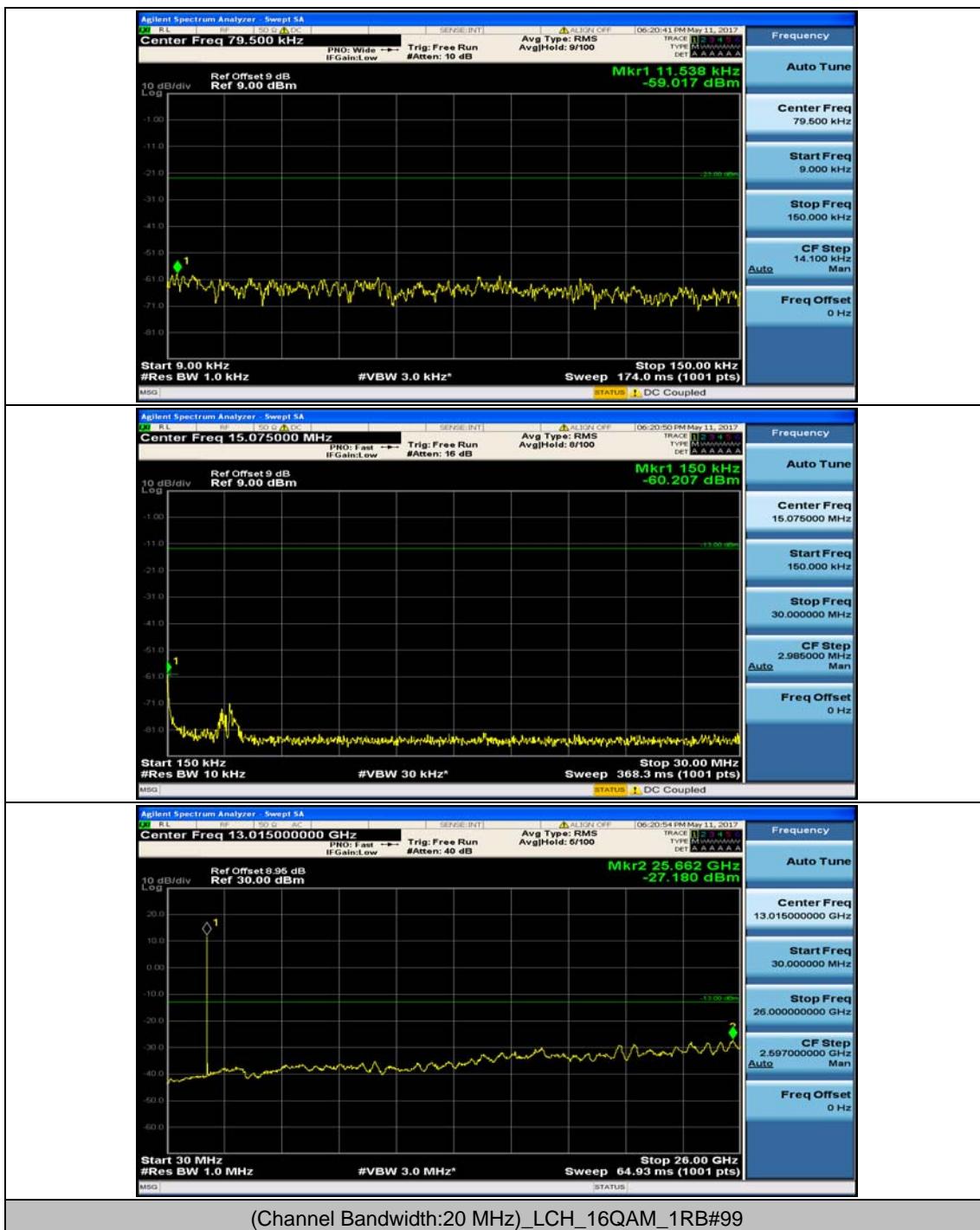


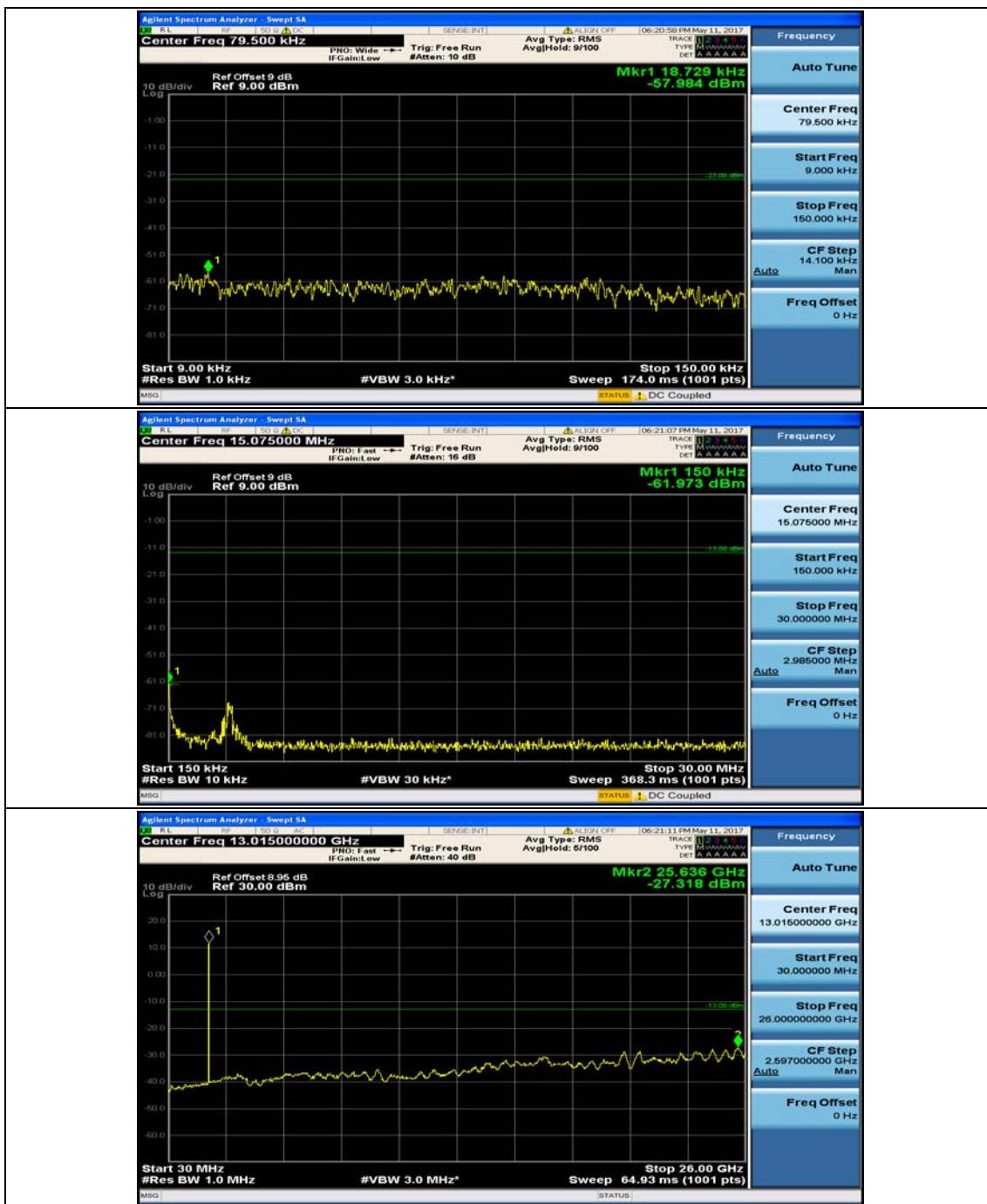


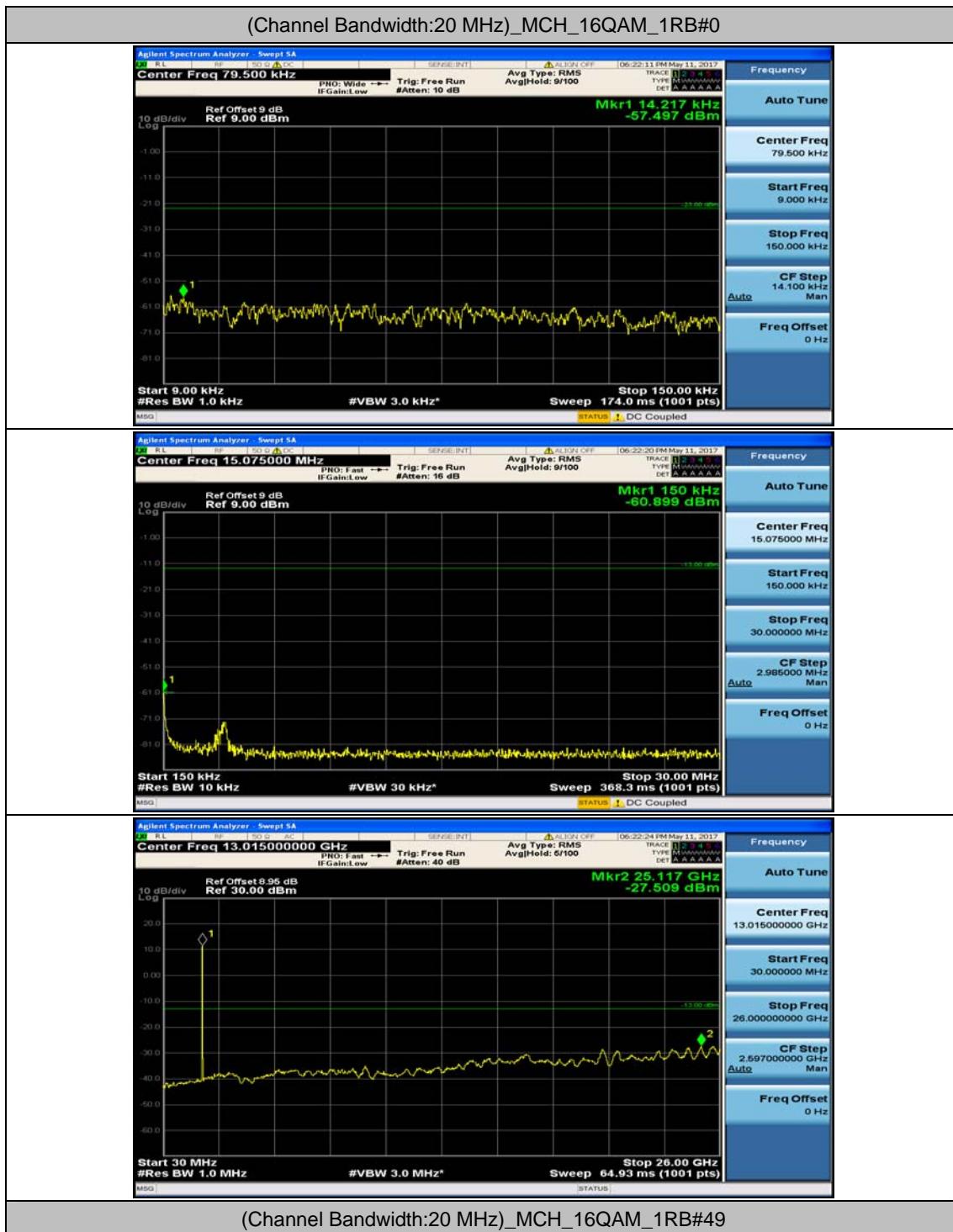


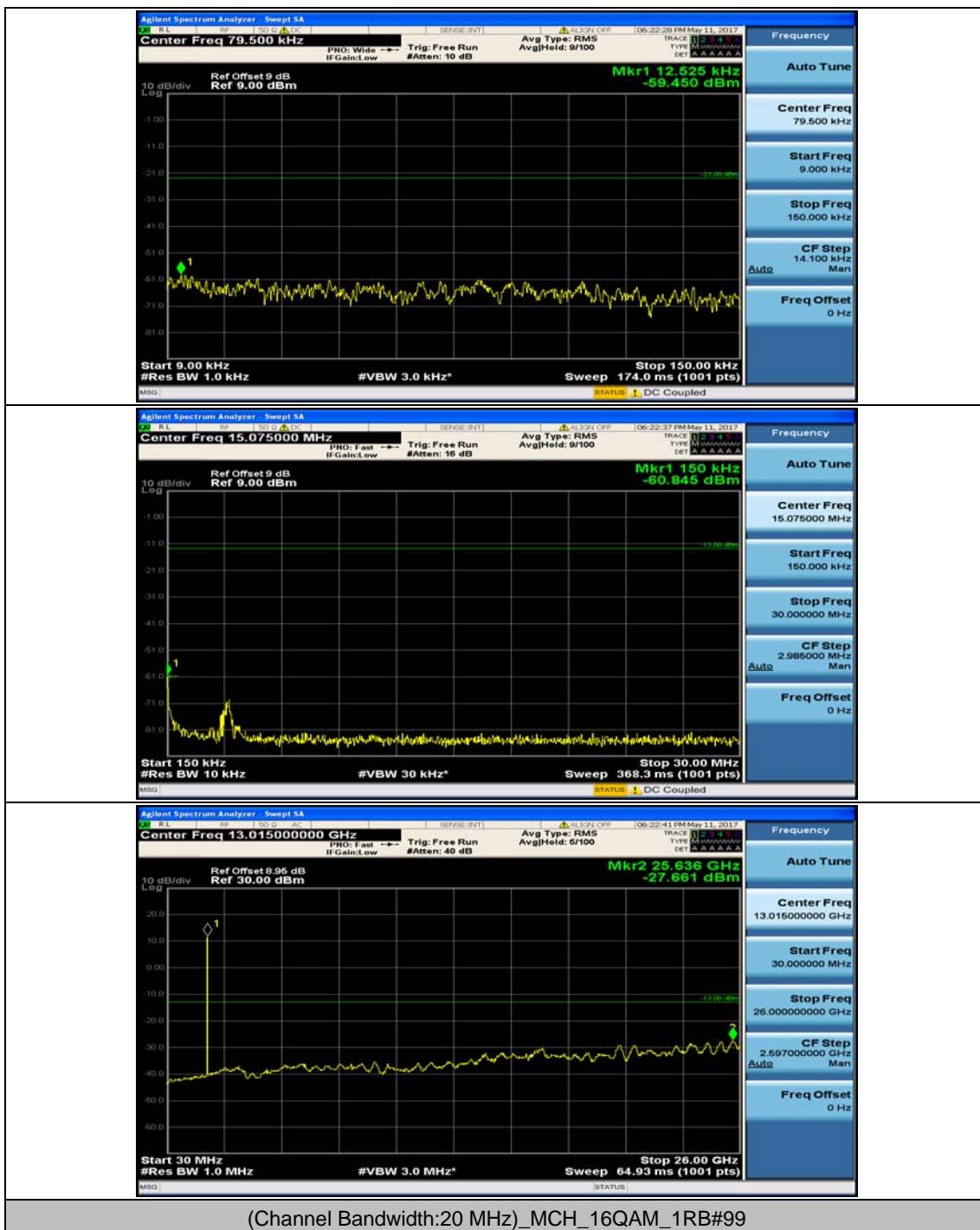


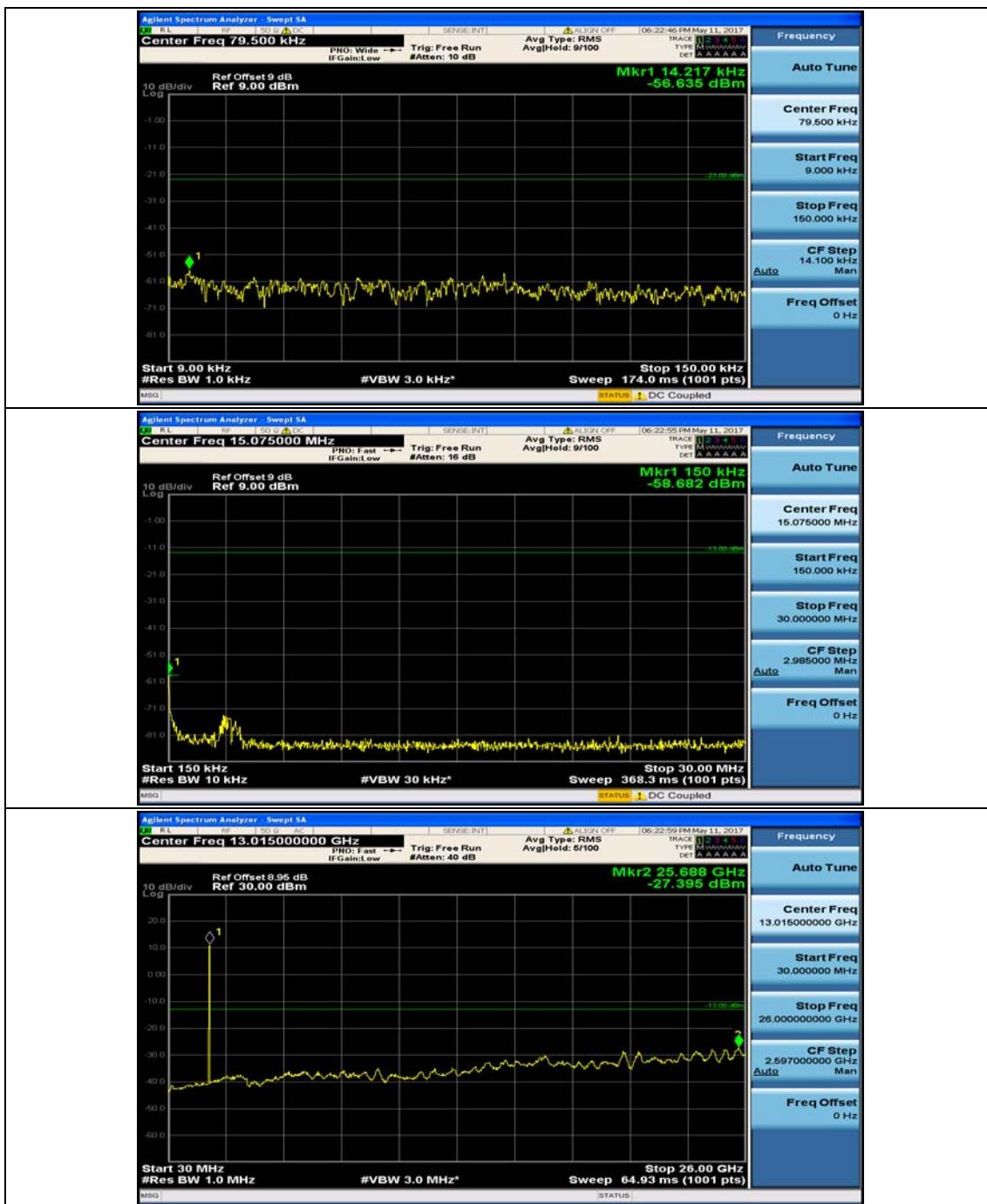


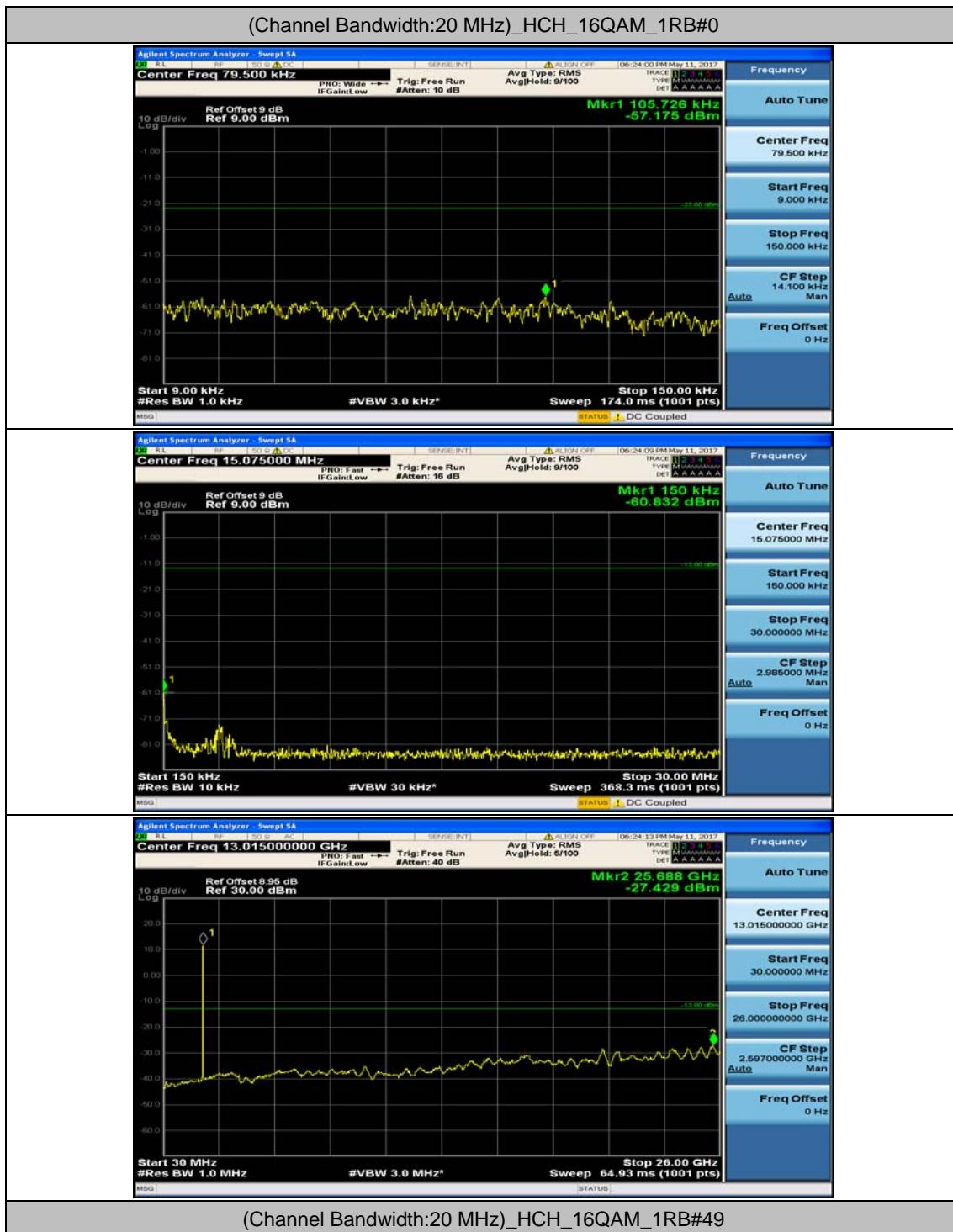


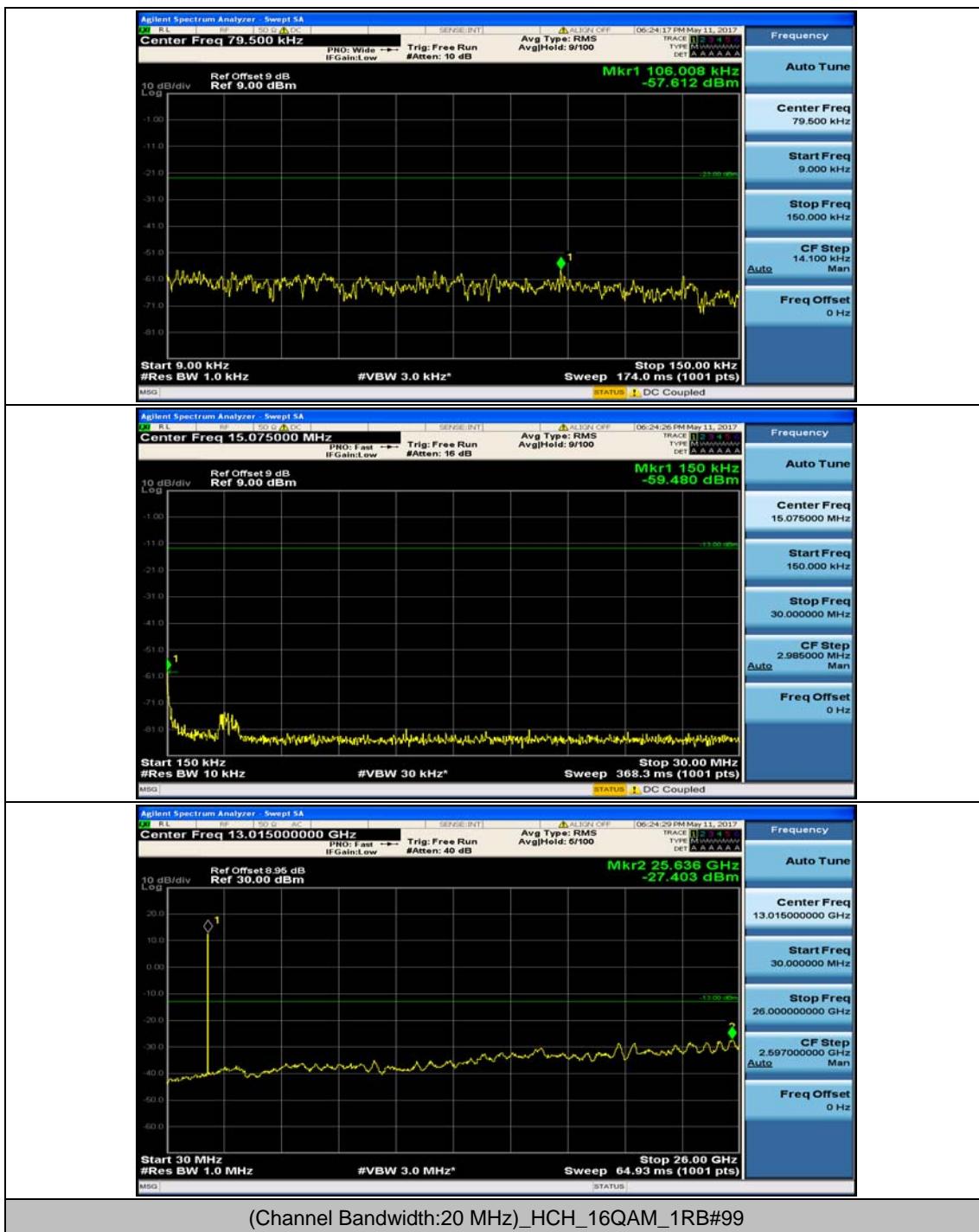




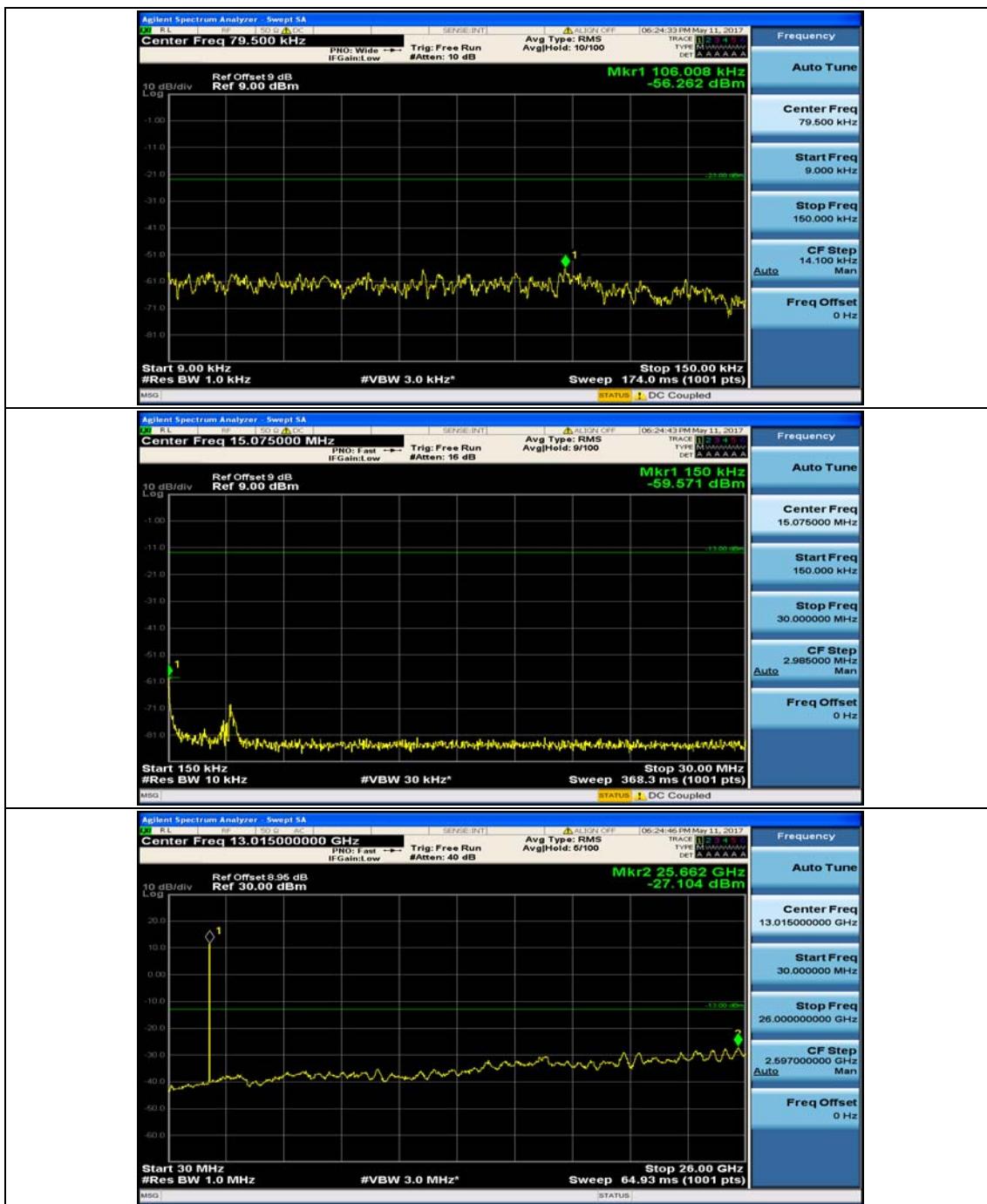








(Channel Bandwidth:20 MHz)\_HCH\_16QAM\_1RB#99



## 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	1.15	0.000621	± 2.5	PASS
		VN	TN	0.51	0.000276	± 2.5	PASS
		VH	TN	0.08	0.000043	± 2.5	PASS
	MCH	VL	TN	3.73	0.001984	± 2.5	PASS
		VN	TN	-1.91	-0.001016	± 2.5	PASS
		VH	TN	-0.71	-0.000378	± 2.5	PASS
	HCH	VL	TN	3.34	0.001749	± 2.5	PASS
		VN	TN	4.13	0.002163	± 2.5	PASS
		VH	TN	1.82	0.000953	± 2.5	PASS
16QAM	LCH	VL	TN	0.72	0.000389	± 2.5	PASS
		VN	TN	2.86	0.001545	± 2.5	PASS
		VH	TN	-1.24	-0.000670	± 2.5	PASS
	MCH	VL	TN	-1.25	-0.000665	± 2.5	PASS
		VN	TN	0.69	0.000367	± 2.5	PASS
		VH	TN	0.79	0.000420	± 2.5	PASS
	HCH	VL	TN	1.73	0.000906	± 2.5	PASS
		VN	TN	-0.46	-0.000241	± 2.5	PASS
		VH	TN	2.13	0.001116	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.53	0.000286	± 2.5	PASS
		VN	-20	1.55	0.000838	± 2.5	PASS
		VN	-10	-0.97	-0.000524	± 2.5	PASS
		VN	0	2.12	0.001146	± 2.5	PASS
		VN	10	4.86	0.002626	± 2.5	PASS
		VN	20	2.23	0.001205	± 2.5	PASS
		VN	30	3.4	0.001837	± 2.5	PASS
		VN	40	-0.8	-0.000432	± 2.5	PASS
		VN	50	0.7	0.000378	± 2.5	PASS
	MCH	VN	-30	4.54	0.002415	± 2.5	PASS

		VN	-20	-0.81	-0.000431	$\pm 2.5$	PASS
		VN	-10	0.71	0.000378	$\pm 2.5$	PASS
		VN	0	0.26	0.000138	$\pm 2.5$	PASS
		VN	10	-0.76	-0.000404	$\pm 2.5$	PASS
		VN	20	4.05	0.002154	$\pm 2.5$	PASS
		VN	30	-1.9	-0.001011	$\pm 2.5$	PASS
		VN	40	0.79	0.000420	$\pm 2.5$	PASS
		VN	50	1.06	0.000564	$\pm 2.5$	PASS
	HCH	VN	-30	4.71	0.002467	$\pm 2.5$	PASS
		VN	-20	-1.27	-0.000665	$\pm 2.5$	PASS
		VN	-10	-1.87	-0.000979	$\pm 2.5$	PASS
		VN	0	4.33	0.002268	$\pm 2.5$	PASS
		VN	10	3.34	0.001749	$\pm 2.5$	PASS
		VN	20	3.77	0.001975	$\pm 2.5$	PASS
		VN	30	-1.97	-0.001032	$\pm 2.5$	PASS
		VN	40	4.19	0.002195	$\pm 2.5$	PASS
		VN	50	1.88	0.000985	$\pm 2.5$	PASS
16QAM	LCH	VN	-30	0.2	0.000108	$\pm 2.5$	PASS
		VN	-20	4.01	0.002167	$\pm 2.5$	PASS
		VN	-10	-1.28	-0.000692	$\pm 2.5$	PASS
		VN	0	4.53	0.002448	$\pm 2.5$	PASS
		VN	10	1.3	0.000702	$\pm 2.5$	PASS
		VN	20	-0.42	-0.000227	$\pm 2.5$	PASS
		VN	30	1.32	0.000713	$\pm 2.5$	PASS
		VN	40	-1.03	-0.000557	$\pm 2.5$	PASS
		VN	50	1.21	0.000654	$\pm 2.5$	PASS
	MCH	VN	-30	3.25	0.001729	$\pm 2.5$	PASS
		VN	-20	1.77	0.000941	$\pm 2.5$	PASS
		VN	-10	0.75	0.000399	$\pm 2.5$	PASS
		VN	0	0.09	0.000048	$\pm 2.5$	PASS
		VN	10	2.5	0.001330	$\pm 2.5$	PASS
		VN	20	2.36	0.001255	$\pm 2.5$	PASS
		VN	30	-0.23	-0.000122	$\pm 2.5$	PASS
		VN	40	2	0.001064	$\pm 2.5$	PASS
		VN	50	-1.73	-0.000920	$\pm 2.5$	PASS
	HCH	VN	-30	0.89	0.000466	$\pm 2.5$	PASS
		VN	-20	1.15	0.000602	$\pm 2.5$	PASS
		VN	-10	0.25	0.000131	$\pm 2.5$	PASS
		VN	0	0.37	0.000194	$\pm 2.5$	PASS
		VN	10	0.53	0.000278	$\pm 2.5$	PASS
		VN	20	-0.55	-0.000288	$\pm 2.5$	PASS

		VN	30	2.82	0.001477	$\pm 2.5$	PASS
		VN	40	0.45	0.000236	$\pm 2.5$	PASS
		VN	50	3.88	0.002032	$\pm 2.5$	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	0.94	0.000508	$\pm 2.5$	PASS
		VN	TN	3.91	0.002112	$\pm 2.5$	PASS
		VH	TN	-1.68	-0.000907	$\pm 2.5$	PASS
	MCH	VL	TN	-0.77	-0.000410	$\pm 2.5$	PASS
		VN	TN	2.95	0.001569	$\pm 2.5$	PASS
		VH	TN	-1.09	-0.000580	$\pm 2.5$	PASS
	HCH	VL	TN	3.91	0.002049	$\pm 2.5$	PASS
		VN	TN	0.82	0.000430	$\pm 2.5$	PASS
		VH	TN	2.88	0.001509	$\pm 2.5$	PASS
16QAM	LCH	VL	TN	-1.91	-0.001032	$\pm 2.5$	PASS
		VN	TN	3.48	0.001880	$\pm 2.5$	PASS
		VH	TN	1.95	0.001053	$\pm 2.5$	PASS
	MCH	VL	TN	0.71	0.000378	$\pm 2.5$	PASS
		VN	TN	0.25	0.000133	$\pm 2.5$	PASS
		VH	TN	-0.08	-0.000043	$\pm 2.5$	PASS
	HCH	VL	TN	4.7	0.002463	$\pm 2.5$	PASS
		VN	TN	-0.8	-0.000419	$\pm 2.5$	PASS
		VH	TN	0.8	0.000419	$\pm 2.5$	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.61	-0.000329	$\pm 2.5$	PASS
		VN	-20	1.17	0.000632	$\pm 2.5$	PASS
		VN	-10	0.73	0.000394	$\pm 2.5$	PASS
		VN	0	-0.97	-0.000524	$\pm 2.5$	PASS
		VN	10	1.74	0.000940	$\pm 2.5$	PASS
		VN	20	3.95	0.002133	$\pm 2.5$	PASS
		VN	30	2.89	0.001561	$\pm 2.5$	PASS
		VN	40	-1.63	-0.000880	$\pm 2.5$	PASS
		VN	50	4.09	0.002209	$\pm 2.5$	PASS
	MCH	VN	-30	4.66	0.002479	$\pm 2.5$	PASS
		VN	-20	4.44	0.002362	$\pm 2.5$	PASS

	HCH	VN	-10	0.88	0.000468	$\pm 2.5$	PASS
		VN	0	2.38	0.001266	$\pm 2.5$	PASS
		VN	10	1.7	0.000904	$\pm 2.5$	PASS
		VN	20	-1.79	-0.000952	$\pm 2.5$	PASS
		VN	30	-1.42	-0.000755	$\pm 2.5$	PASS
		VN	40	2.07	0.001101	$\pm 2.5$	PASS
		VN	50	-1.37	-0.000729	$\pm 2.5$	PASS
		VN	-30	-0.95	-0.000498	$\pm 2.5$	PASS
		VN	-20	4.05	0.002122	$\pm 2.5$	PASS
		VN	-10	1.44	0.000755	$\pm 2.5$	PASS
		VN	0	-0.66	-0.000346	$\pm 2.5$	PASS
		VN	10	2.43	0.001273	$\pm 2.5$	PASS
		VN	20	0.48	0.000252	$\pm 2.5$	PASS
		VN	30	4.18	0.002190	$\pm 2.5$	PASS
		VN	40	1.47	0.000770	$\pm 2.5$	PASS
		VN	50	4.62	0.002421	$\pm 2.5$	PASS
16QAM	LCH	VN	-30	2.38	0.001285	$\pm 2.5$	PASS
		VN	-20	3.97	0.002144	$\pm 2.5$	PASS
		VN	-10	-0.62	-0.000335	$\pm 2.5$	PASS
		VN	0	-0.84	-0.000454	$\pm 2.5$	PASS
		VN	10	2.97	0.001604	$\pm 2.5$	PASS
		VN	20	0.09	0.000049	$\pm 2.5$	PASS
		VN	30	1.77	0.000956	$\pm 2.5$	PASS
		VN	40	-0.13	-0.000070	$\pm 2.5$	PASS
		VN	50	-1	-0.000540	$\pm 2.5$	PASS
	MCH	VN	-30	-1.91	-0.001016	$\pm 2.5$	PASS
		VN	-20	4.19	0.002229	$\pm 2.5$	PASS
		VN	-10	3.09	0.001644	$\pm 2.5$	PASS
		VN	0	2.62	0.001394	$\pm 2.5$	PASS
		VN	10	4.02	0.002138	$\pm 2.5$	PASS
		VN	20	-0.26	-0.000138	$\pm 2.5$	PASS
		VN	30	-0.33	-0.000176	$\pm 2.5$	PASS
		VN	40	-1.3	-0.000691	$\pm 2.5$	PASS
	HCH	VN	50	2.04	0.001085	$\pm 2.5$	PASS
		VN	-30	-0.07	-0.000037	$\pm 2.5$	PASS
		VN	-20	3.72	0.001949	$\pm 2.5$	PASS
		VN	-10	1.29	0.000676	$\pm 2.5$	PASS
		VN	0	3.71	0.001944	$\pm 2.5$	PASS
		VN	10	-1.53	-0.000802	$\pm 2.5$	PASS
		VN	20	4.52	0.002368	$\pm 2.5$	PASS
		VN	30	1.61	0.000844	$\pm 2.5$	PASS

		VN	40	4.87	0.002552	$\pm 2.5$	PASS
		VN	50	0.46	0.000241	$\pm 2.5$	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	-1.73	-0.000934	$\pm 2.5$	PASS
		VN	TN	2.74	0.001479	$\pm 2.5$	PASS
		VH	TN	2.18	0.001177	$\pm 2.5$	PASS
	MCH	VL	TN	2.09	0.001112	$\pm 2.5$	PASS
		VN	TN	3.82	0.002032	$\pm 2.5$	PASS
		VH	TN	2.52	0.001340	$\pm 2.5$	PASS
	HCH	VL	TN	0.65	0.000341	$\pm 2.5$	PASS
		VN	TN	0.02	0.000010	$\pm 2.5$	PASS
		VH	TN	1.47	0.000771	$\pm 2.5$	PASS
16QAM	LCH	VL	TN	4.16	0.002246	$\pm 2.5$	PASS
		VN	TN	2.4	0.001296	$\pm 2.5$	PASS
		VH	TN	3.55	0.001916	$\pm 2.5$	PASS
	MCH	VL	TN	2.2	0.001170	$\pm 2.5$	PASS
		VN	TN	-0.73	-0.000388	$\pm 2.5$	PASS
		VH	TN	1.52	0.000809	$\pm 2.5$	PASS
	HCH	VL	TN	0.39	0.000204	$\pm 2.5$	PASS
		VN	TN	1.25	0.000655	$\pm 2.5$	PASS
		VH	TN	2.06	0.001080	$\pm 2.5$	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.3	0.001242	$\pm 2.5$	PASS
		VN	-20	-1.18	-0.000637	$\pm 2.5$	PASS
		VN	-10	2.51	0.001355	$\pm 2.5$	PASS
		VN	0	4.64	0.002505	$\pm 2.5$	PASS
		VN	10	0.69	0.000372	$\pm 2.5$	PASS
		VN	20	-0.24	-0.000130	$\pm 2.5$	PASS
		VN	30	-1.42	-0.000767	$\pm 2.5$	PASS
		VN	40	-1.86	-0.001004	$\pm 2.5$	PASS
		VN	50	0.96	0.000518	$\pm 2.5$	PASS
	MCH	VN	-30	4.95	0.002633	$\pm 2.5$	PASS
		VN	-20	2.23	0.001186	$\pm 2.5$	PASS
		VN	-10	-0.71	-0.000378	$\pm 2.5$	PASS

	HCH	VN	0	0.29	0.000154	$\pm 2.5$	PASS
		VN	10	0.4	0.000213	$\pm 2.5$	PASS
		VN	20	1.78	0.000947	$\pm 2.5$	PASS
		VN	30	2.63	0.001399	$\pm 2.5$	PASS
		VN	40	-0.69	-0.000367	$\pm 2.5$	PASS
		VN	50	1.16	0.000617	$\pm 2.5$	PASS
		VN	-30	1.47	0.000771	$\pm 2.5$	PASS
		VN	-20	-0.87	-0.000456	$\pm 2.5$	PASS
		VN	-10	0.69	0.000362	$\pm 2.5$	PASS
		VN	0	4.71	0.002469	$\pm 2.5$	PASS
		VN	10	-0.62	-0.000325	$\pm 2.5$	PASS
		VN	20	-1.01	-0.000529	$\pm 2.5$	PASS
		VN	30	-0.36	-0.000189	$\pm 2.5$	PASS
		VN	40	-1.13	-0.000592	$\pm 2.5$	PASS
		VN	50	-0.5	-0.000262	$\pm 2.5$	PASS
16QAM	LCH	VN	-30	-0.25	-0.000135	$\pm 2.5$	PASS
		VN	-20	4.87	0.002629	$\pm 2.5$	PASS
		VN	-10	1.13	0.000610	$\pm 2.5$	PASS
		VN	0	1.39	0.000750	$\pm 2.5$	PASS
		VN	10	-0.65	-0.000351	$\pm 2.5$	PASS
		VN	20	3.36	0.001814	$\pm 2.5$	PASS
		VN	30	-1.49	-0.000804	$\pm 2.5$	PASS
		VN	40	2.97	0.001603	$\pm 2.5$	PASS
		VN	50	1.43	0.000772	$\pm 2.5$	PASS
	MCH	VN	-30	-0.49	-0.000261	$\pm 2.5$	PASS
		VN	-20	1.42	0.000755	$\pm 2.5$	PASS
		VN	-10	2.14	0.001138	$\pm 2.5$	PASS
		VN	0	-0.33	-0.000176	$\pm 2.5$	PASS
		VN	10	-1.78	-0.000947	$\pm 2.5$	PASS
		VN	20	2.21	0.001176	$\pm 2.5$	PASS
		VN	30	0.51	0.000271	$\pm 2.5$	PASS
		VN	40	4.41	0.002346	$\pm 2.5$	PASS
		VN	50	0.71	0.000378	$\pm 2.5$	PASS
	HCH	VN	-30	0.78	0.000409	$\pm 2.5$	PASS
		VN	-20	-0.27	-0.000142	$\pm 2.5$	PASS
		VN	-10	4.04	0.002118	$\pm 2.5$	PASS
		VN	0	4.98	0.002611	$\pm 2.5$	PASS
		VN	10	1.81	0.000949	$\pm 2.5$	PASS
		VN	20	-0.21	-0.000110	$\pm 2.5$	PASS
		VN	30	-0.67	-0.000351	$\pm 2.5$	PASS
		VN	40	1.19	0.000624	$\pm 2.5$	PASS

		VN	50	1.18	0.000619	$\pm 2.5$	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	0.9	0.000485	$\pm 2.5$	PASS
		VN	TN	-1.23	-0.000663	$\pm 2.5$	PASS
		VH	TN	1.51	0.000814	$\pm 2.5$	PASS
	MCH	VL	TN	4.96	0.002638	$\pm 2.5$	PASS
		VN	TN	2.32	0.001234	$\pm 2.5$	PASS
		VH	TN	0.27	0.000144	$\pm 2.5$	PASS
	HCH	VL	TN	2.74	0.001438	$\pm 2.5$	PASS
		VN	TN	-0.58	-0.000304	$\pm 2.5$	PASS
		VH	TN	-0.74	-0.000388	$\pm 2.5$	PASS
16QAM	LCH	VL	TN	-0.17	-0.000092	$\pm 2.5$	PASS
		VN	TN	0.73	0.000394	$\pm 2.5$	PASS
		VH	TN	-0.22	-0.000119	$\pm 2.5$	PASS
	MCH	VL	TN	3.6	0.001915	$\pm 2.5$	PASS
		VN	TN	4.13	0.002197	$\pm 2.5$	PASS
		VH	TN	0.08	0.000043	$\pm 2.5$	PASS
	HCH	VL	TN	-0.74	-0.000388	$\pm 2.5$	PASS
		VN	TN	4.41	0.002315	$\pm 2.5$	PASS
		VH	TN	-0.27	-0.000142	$\pm 2.5$	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	-1.37	-0.000739	$\pm 2.5$	PASS
		VN	-20	1.54	0.000830	$\pm 2.5$	PASS
		VN	-10	4.82	0.002598	$\pm 2.5$	PASS
		VN	0	-0.85	-0.000458	$\pm 2.5$	PASS
		VN	10	4.83	0.002604	$\pm 2.5$	PASS
		VN	20	0.7	0.000377	$\pm 2.5$	PASS
		VN	30	1.51	0.000814	$\pm 2.5$	PASS
		VN	40	-1.77	-0.000954	$\pm 2.5$	PASS
		VN	50	0.9	0.000485	$\pm 2.5$	PASS
	MCH	VN	-30	-1.57	-0.000835	$\pm 2.5$	PASS
		VN	-20	3.03	0.001612	$\pm 2.5$	PASS
		VN	-10	3.53	0.001878	$\pm 2.5$	PASS
		VN	0	1.52	0.000809	$\pm 2.5$	PASS

		VN	10	3.62	0.001926	$\pm 2.5$	PASS
		VN	20	4.69	0.002495	$\pm 2.5$	PASS
		VN	30	1.71	0.000910	$\pm 2.5$	PASS
		VN	40	-0.52	-0.000277	$\pm 2.5$	PASS
		VN	50	3.21	0.001707	$\pm 2.5$	PASS
		VN	-30	0.4	0.000210	$\pm 2.5$	PASS
		VN	-20	2.94	0.001543	$\pm 2.5$	PASS
		VN	-10	-1.1	-0.000577	$\pm 2.5$	PASS
		VN	0	3.05	0.001601	$\pm 2.5$	PASS
		VN	10	4.18	0.002194	$\pm 2.5$	PASS
		VN	20	0.02	0.000010	$\pm 2.5$	PASS
		VN	30	1.75	0.000919	$\pm 2.5$	PASS
		VN	40	3.38	0.001774	$\pm 2.5$	PASS
		VN	50	0.79	0.000415	$\pm 2.5$	PASS
		VN	-30	-0.68	-0.000367	$\pm 2.5$	PASS
		VN	-20	4.69	0.002528	$\pm 2.5$	PASS
		VN	-10	2.98	0.001606	$\pm 2.5$	PASS
		VN	0	-1.59	-0.000857	$\pm 2.5$	PASS
		VN	10	4.47	0.002410	$\pm 2.5$	PASS
		VN	20	-1.02	-0.000550	$\pm 2.5$	PASS
		VN	30	4.3	0.002318	$\pm 2.5$	PASS
		VN	40	-1.51	-0.000814	$\pm 2.5$	PASS
		VN	50	3.3	0.001779	$\pm 2.5$	PASS
		VN	-30	-0.99	-0.000527	$\pm 2.5$	PASS
		VN	-20	2.02	0.001074	$\pm 2.5$	PASS
		VN	-10	2.01	0.001069	$\pm 2.5$	PASS
		VN	0	4.41	0.002346	$\pm 2.5$	PASS
		VN	10	3.9	0.002074	$\pm 2.5$	PASS
		VN	20	-0.01	-0.000005	$\pm 2.5$	PASS
		VN	30	4.46	0.002372	$\pm 2.5$	PASS
		VN	40	1.79	0.000952	$\pm 2.5$	PASS
		VN	50	3.31	0.001761	$\pm 2.5$	PASS
		VN	-30	-0.93	-0.000488	$\pm 2.5$	PASS
		VN	-20	4.65	0.002441	$\pm 2.5$	PASS
		VN	-10	1.68	0.000882	$\pm 2.5$	PASS
		VN	0	-0.38	-0.000199	$\pm 2.5$	PASS
		VN	10	-0.27	-0.000142	$\pm 2.5$	PASS
		VN	20	1.09	0.000572	$\pm 2.5$	PASS
		VN	30	3.96	0.002079	$\pm 2.5$	PASS
		VN	40	-0.8	-0.000420	$\pm 2.5$	PASS
		VN	50	1.14	0.000598	$\pm 2.5$	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	2.79	0.001502	± 2.5	PASS
		VN	TN	4.65	0.002503	± 2.5	PASS
		VH	TN	-0.79	-0.000425	± 2.5	PASS
	MCH	VL	TN	-0.61	-0.000324	± 2.5	PASS
		VN	TN	3.98	0.002117	± 2.5	PASS
		VH	TN	1.2	0.000638	± 2.5	PASS
	HCH	VL	TN	-0.06	-0.000032	± 2.5	PASS
		VN	TN	-0.87	-0.000457	± 2.5	PASS
		VH	TN	-1.43	-0.000752	± 2.5	PASS
16QAM	LCH	VL	TN	2.63	0.001416	± 2.5	PASS
		VN	TN	2.95	0.001588	± 2.5	PASS
		VH	TN	1.1	0.000592	± 2.5	PASS
	MCH	VL	TN	2.07	0.001101	± 2.5	PASS
		VN	TN	0.1	0.000053	± 2.5	PASS
		VH	TN	-1.94	-0.001032	± 2.5	PASS
	HCH	VL	TN	4.71	0.002476	± 2.5	PASS
		VN	TN	4.62	0.002428	± 2.5	PASS
		VH	TN	1.3	0.000683	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.51	-0.000813	± 2.5	PASS
		VN	-20	1.61	0.000867	± 2.5	PASS
		VN	-10	1.94	0.001044	± 2.5	PASS
		VN	0	-0.08	-0.000043	± 2.5	PASS
		VN	10	2.79	0.001502	± 2.5	PASS
		VN	20	1.41	0.000759	± 2.5	PASS
		VN	30	0.05	0.000027	± 2.5	PASS
		VN	40	3.42	0.001841	± 2.5	PASS
		VN	50	2.28	0.001227	± 2.5	PASS
	MCH	VN	-30	4.14	0.002202	± 2.5	PASS
		VN	-20	3.97	0.002112	± 2.5	PASS
		VN	-10	-1.33	-0.000707	± 2.5	PASS
		VN	0	2.7	0.001436	± 2.5	PASS
		VN	10	0.23	0.000122	± 2.5	PASS
		VN	20	-1.93	-0.001027	± 2.5	PASS

		VN	30	2.78	0.001479	$\pm 2.5$	PASS
		VN	40	2.37	0.001261	$\pm 2.5$	PASS
		VN	50	2.84	0.001511	$\pm 2.5$	PASS
	HCH	VN	-30	3.24	0.001703	$\pm 2.5$	PASS
		VN	-20	2.11	0.001109	$\pm 2.5$	PASS
		VN	-10	-0.87	-0.000457	$\pm 2.5$	PASS
		VN	0	-0.5	-0.000263	$\pm 2.5$	PASS
		VN	10	2.58	0.001356	$\pm 2.5$	PASS
		VN	20	-1.14	-0.000599	$\pm 2.5$	PASS
		VN	30	4.28	0.002250	$\pm 2.5$	PASS
16QAM	LCH	VN	40	4.45	0.002339	$\pm 2.5$	PASS
		VN	50	0.86	0.000452	$\pm 2.5$	PASS
	MCH	VN	-30	2.26	0.001217	$\pm 2.5$	PASS
		VN	-20	3.79	0.002040	$\pm 2.5$	PASS
		VN	-10	1.74	0.000937	$\pm 2.5$	PASS
		VN	0	-0.37	-0.000199	$\pm 2.5$	PASS
		VN	10	-1.15	-0.000619	$\pm 2.5$	PASS
		VN	20	3.92	0.002110	$\pm 2.5$	PASS
		VN	30	-1.02	-0.000549	$\pm 2.5$	PASS
		VN	40	0.75	0.000404	$\pm 2.5$	PASS
		VN	50	-0.62	-0.000334	$\pm 2.5$	PASS
	HCH	VN	-30	-1.84	-0.000979	$\pm 2.5$	PASS
		VN	-20	-0.48	-0.000255	$\pm 2.5$	PASS
		VN	-10	1.5	0.000798	$\pm 2.5$	PASS
		VN	0	2.78	0.001479	$\pm 2.5$	PASS
		VN	10	-1.5	-0.000798	$\pm 2.5$	PASS
		VN	20	1.93	0.001027	$\pm 2.5$	PASS
		VN	30	4.96	0.002638	$\pm 2.5$	PASS
		VN	40	-1.39	-0.000739	$\pm 2.5$	PASS
		VN	50	-1.28	-0.000681	$\pm 2.5$	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	1.08	0.000581	± 2.5	PASS
		VN	TN	4.81	0.002586	± 2.5	PASS
		VH	TN	0.78	0.000419	± 2.5	PASS
	MCH	VL	TN	4.14	0.002202	± 2.5	PASS
		VN	TN	2.34	0.001245	± 2.5	PASS
		VH	TN	3.42	0.001819	± 2.5	PASS
	HCH	VL	TN	4.36	0.002295	± 2.5	PASS
		VN	TN	1.65	0.000868	± 2.5	PASS
		VH	TN	2.9	0.001526	± 2.5	PASS
16QAM	LCH	VL	TN	-0.82	-0.000441	± 2.5	PASS
		VN	TN	2.46	0.001323	± 2.5	PASS
		VH	TN	0.16	0.000086	± 2.5	PASS
	MCH	VL	TN	3.44	0.001830	± 2.5	PASS
		VN	TN	3.33	0.001771	± 2.5	PASS
		VH	TN	0.68	0.000362	± 2.5	PASS
	HCH	VL	TN	4.92	0.002589	± 2.5	PASS
		VN	TN	2.19	0.001153	± 2.5	PASS
		VH	TN	3.1	0.001632	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.42	0.000763	± 2.5	PASS
		VN	-20	1.11	0.000597	± 2.5	PASS
		VN	-10	1.54	0.000828	± 2.5	PASS
		VN	0	1.76	0.000946	± 2.5	PASS
		VN	10	2.61	0.001403	± 2.5	PASS
		VN	20	3.17	0.001704	± 2.5	PASS
		VN	30	0.47	0.000253	± 2.5	PASS
		VN	40	2.73	0.001468	± 2.5	PASS
		VN	50	3.57	0.001919	± 2.5	PASS
	MCH	VN	-30	-1.76	-0.000936	± 2.5	PASS
		VN	-20	0.98	0.000521	± 2.5	PASS
		VN	-10	0.83	0.000441	± 2.5	PASS
		VN	0	4.19	0.002229	± 2.5	PASS
		VN	10	2.66	0.001415	± 2.5	PASS
		VN	20	3.92	0.002085	± 2.5	PASS

		VN	30	-1.19	-0.000633	$\pm 2.5$	PASS
		VN	40	-1.68	-0.000894	$\pm 2.5$	PASS
		VN	50	4.56	0.002426	$\pm 2.5$	PASS
	HCH	VN	-30	-1.4	-0.000737	$\pm 2.5$	PASS
		VN	-20	1.44	0.000758	$\pm 2.5$	PASS
		VN	-10	-0.84	-0.000442	$\pm 2.5$	PASS
		VN	0	-0.19	-0.000100	$\pm 2.5$	PASS
		VN	10	2.45	0.001289	$\pm 2.5$	PASS
		VN	20	1.11	0.000584	$\pm 2.5$	PASS
		VN	30	4.51	0.002374	$\pm 2.5$	PASS
16QAM	LCH	VN	40	1.47	0.000774	$\pm 2.5$	PASS
		VN	50	0.45	0.000237	$\pm 2.5$	PASS
	MCH	VN	-30	3.77	0.002027	$\pm 2.5$	PASS
		VN	-20	-1.37	-0.000737	$\pm 2.5$	PASS
		VN	-10	3.3	0.001774	$\pm 2.5$	PASS
		VN	0	2.08	0.001118	$\pm 2.5$	PASS
		VN	10	-0.77	-0.000414	$\pm 2.5$	PASS
		VN	20	2.04	0.001097	$\pm 2.5$	PASS
		VN	30	-1.47	-0.000790	$\pm 2.5$	PASS
		VN	40	-0.89	-0.000478	$\pm 2.5$	PASS
		VN	50	3.1	0.001667	$\pm 2.5$	PASS
	HCH	VN	-30	1.63	0.000867	$\pm 2.5$	PASS
		VN	-20	3.07	0.001633	$\pm 2.5$	PASS
		VN	-10	3.35	0.001782	$\pm 2.5$	PASS
		VN	0	-0.81	-0.000431	$\pm 2.5$	PASS
		VN	10	0.86	0.000457	$\pm 2.5$	PASS
		VN	20	4.88	0.002596	$\pm 2.5$	PASS
		VN	30	-1.41	-0.000750	$\pm 2.5$	PASS
		VN	40	1.73	0.000920	$\pm 2.5$	PASS
		VN	50	-0.88	-0.000468	$\pm 2.5$	PASS