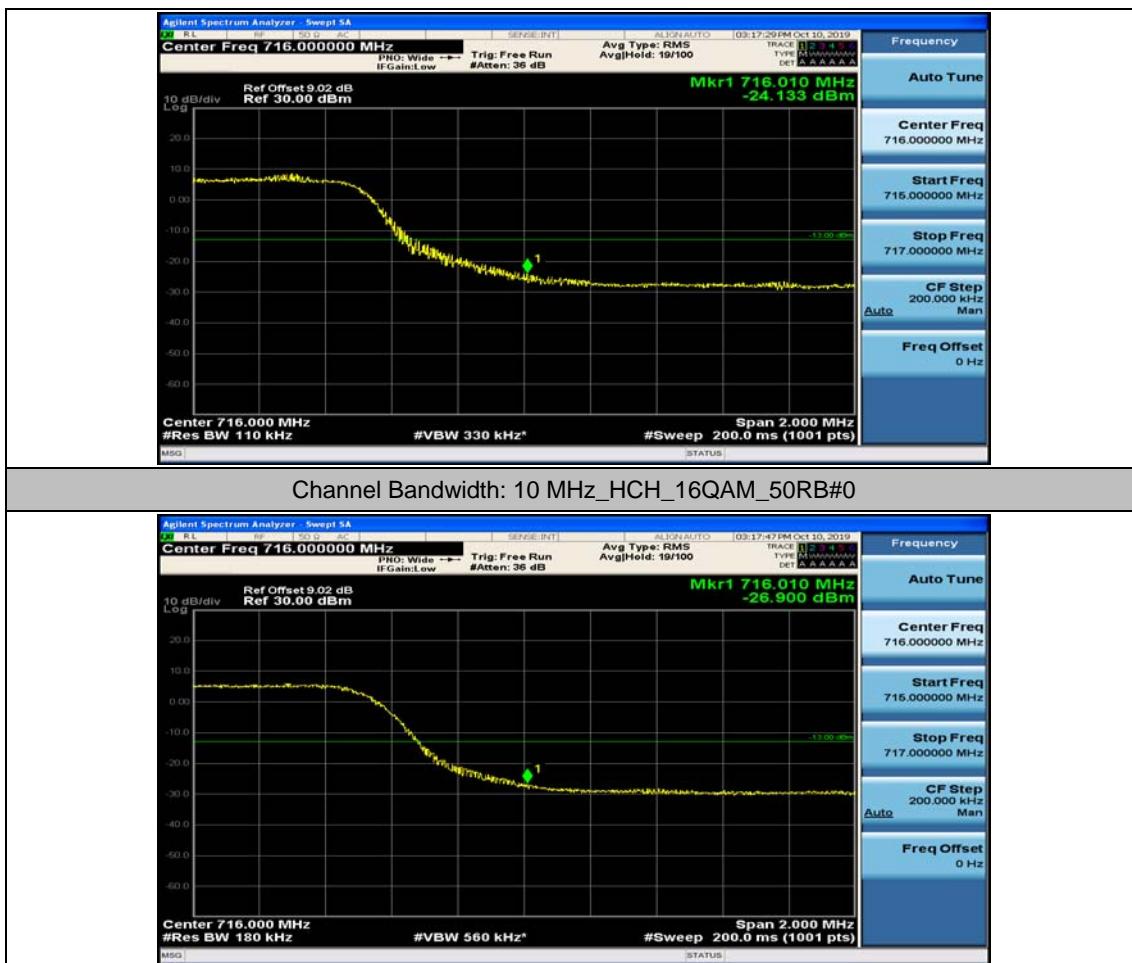


**Channel Bandwidth: 10 MHz\_HCH\_16QAM\_1RB#49**

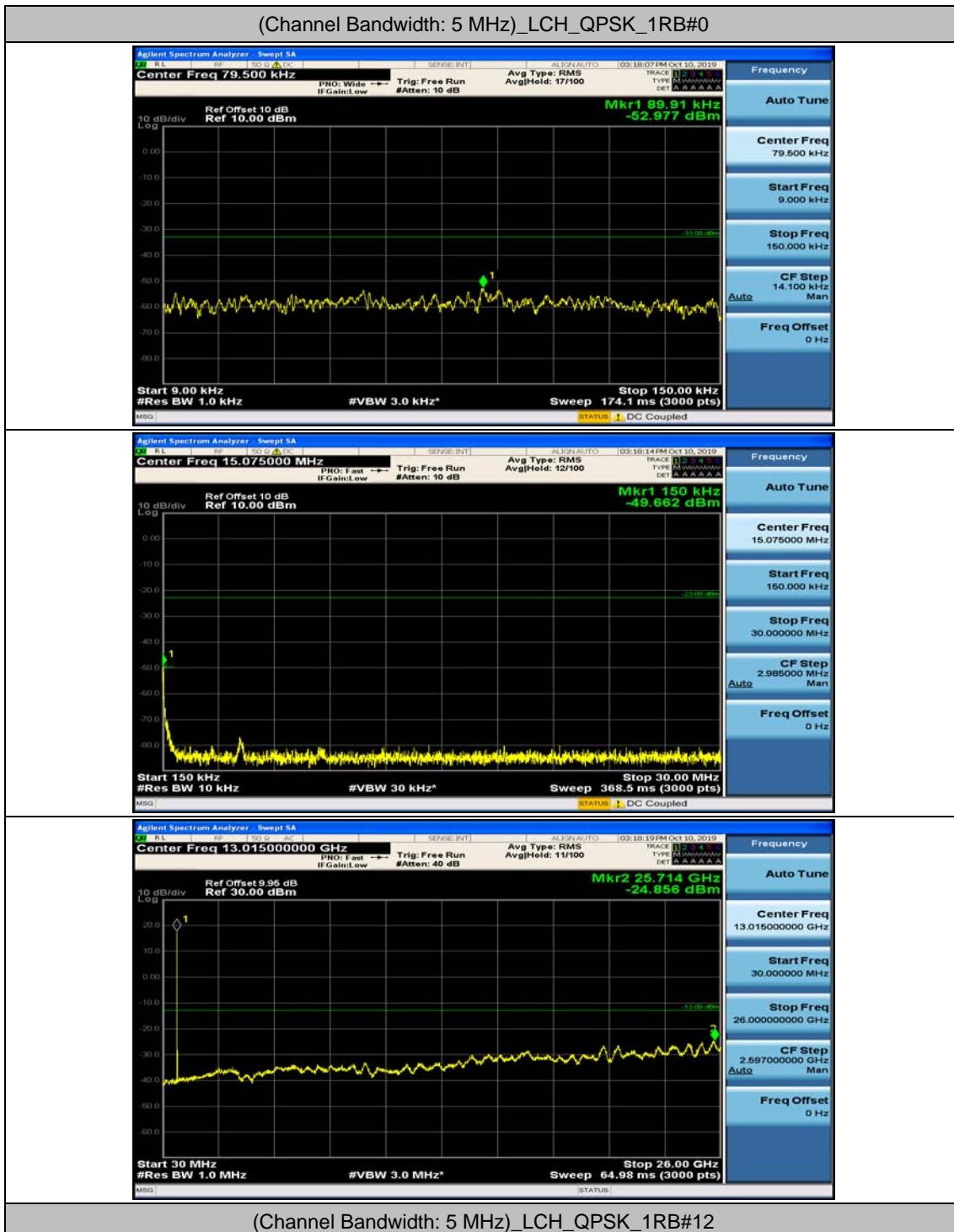


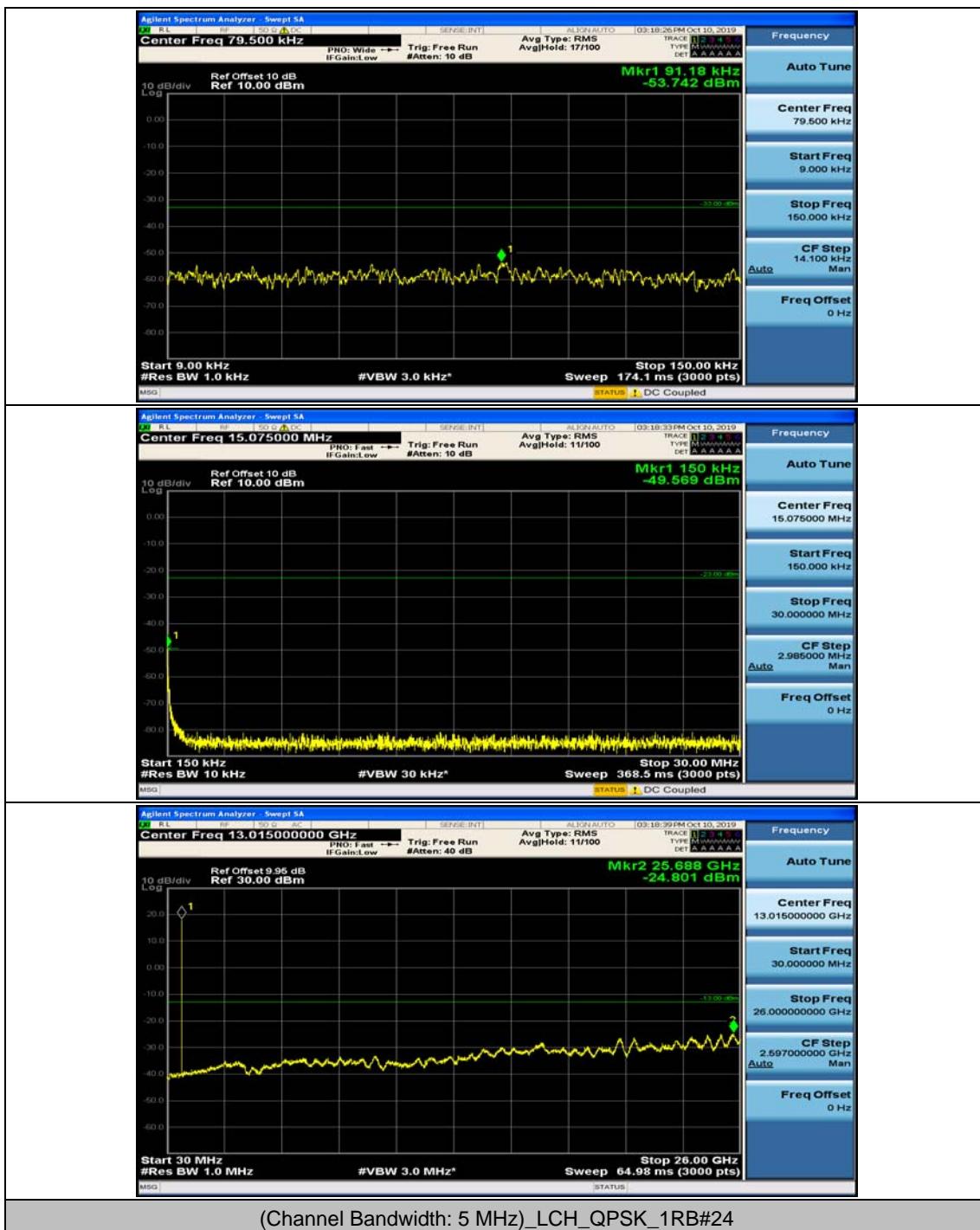


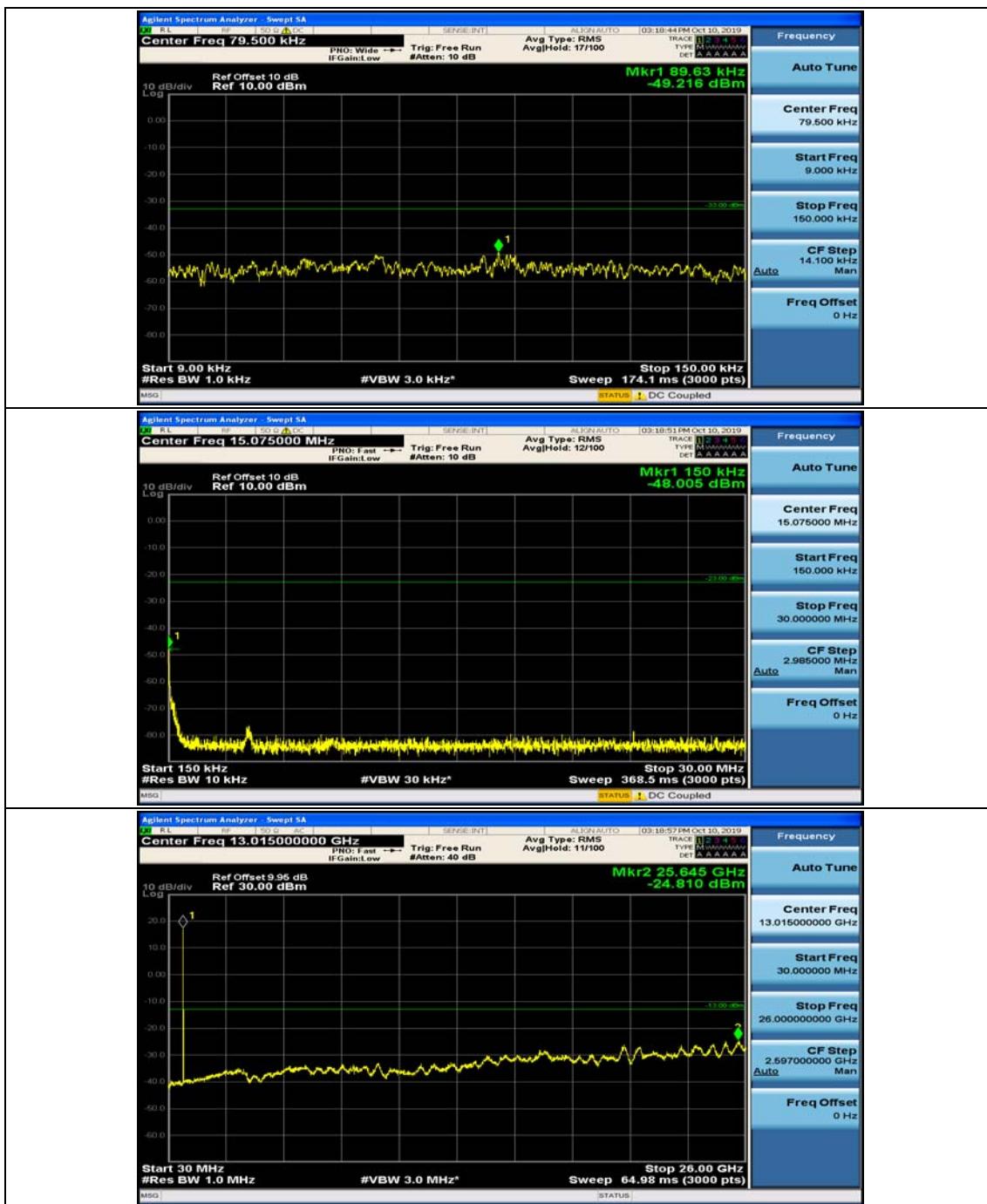
## Appendix E: Conducted Spurious Emission

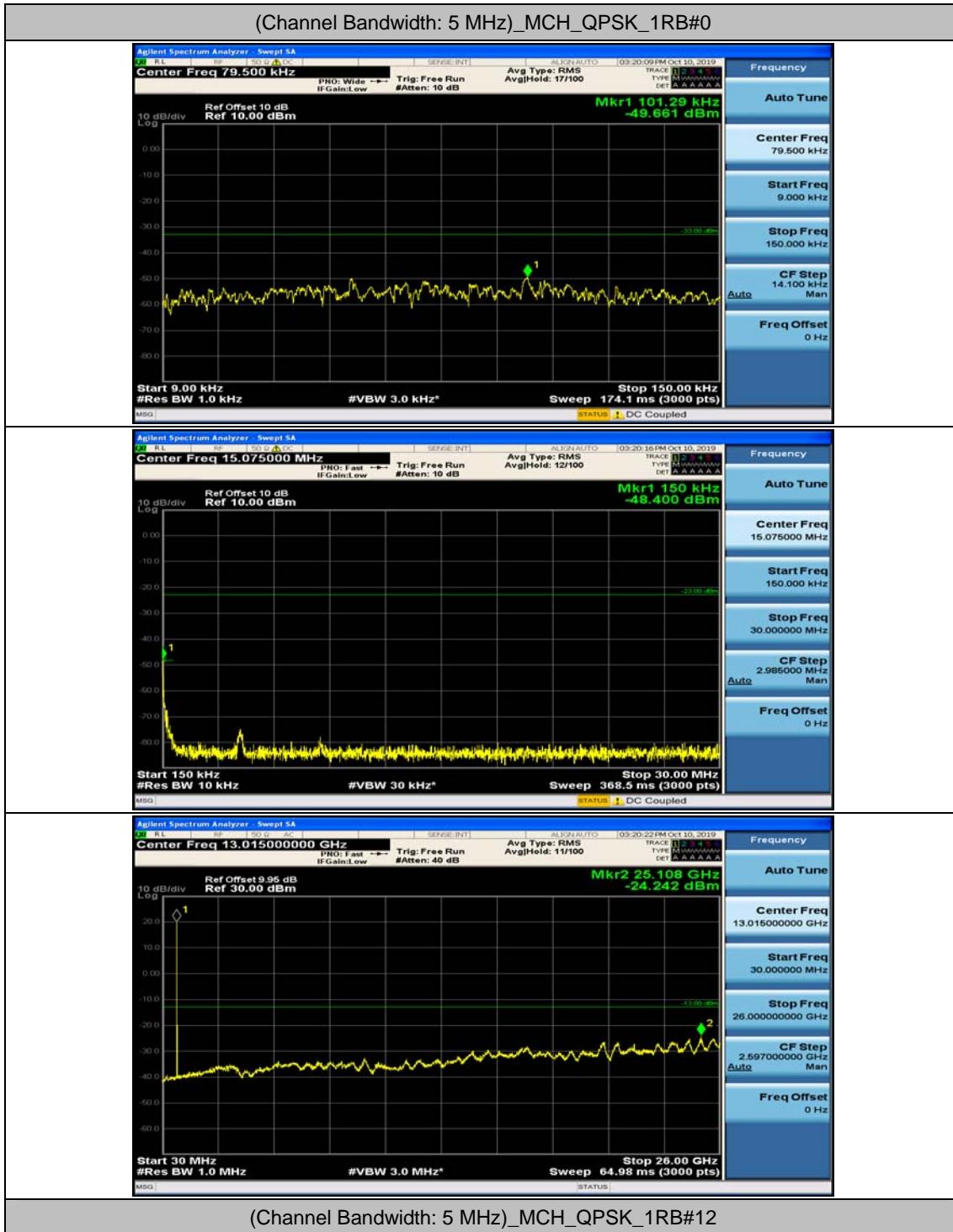
### Test Graphs

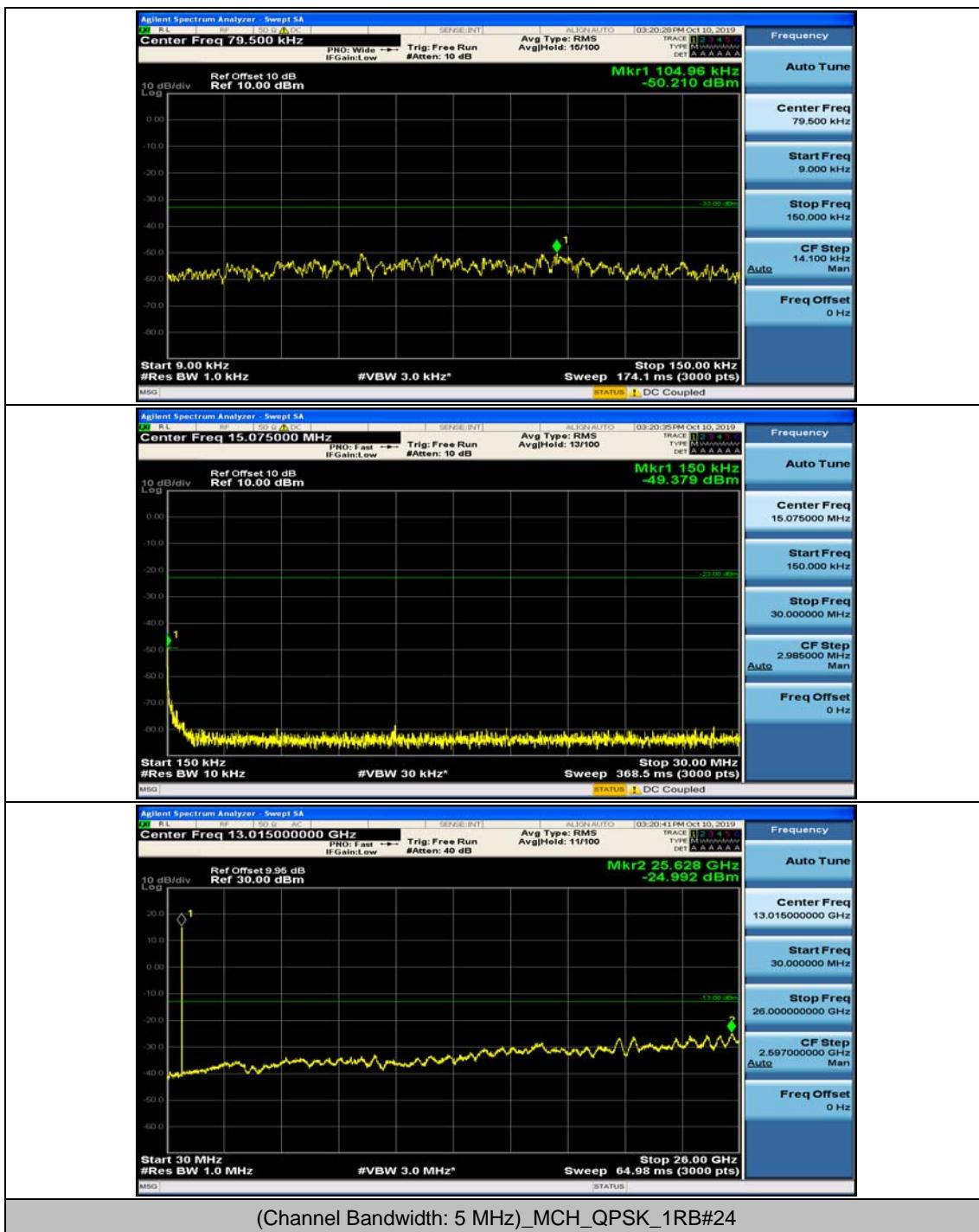
#### Channel Bandwidth: 5 MHz

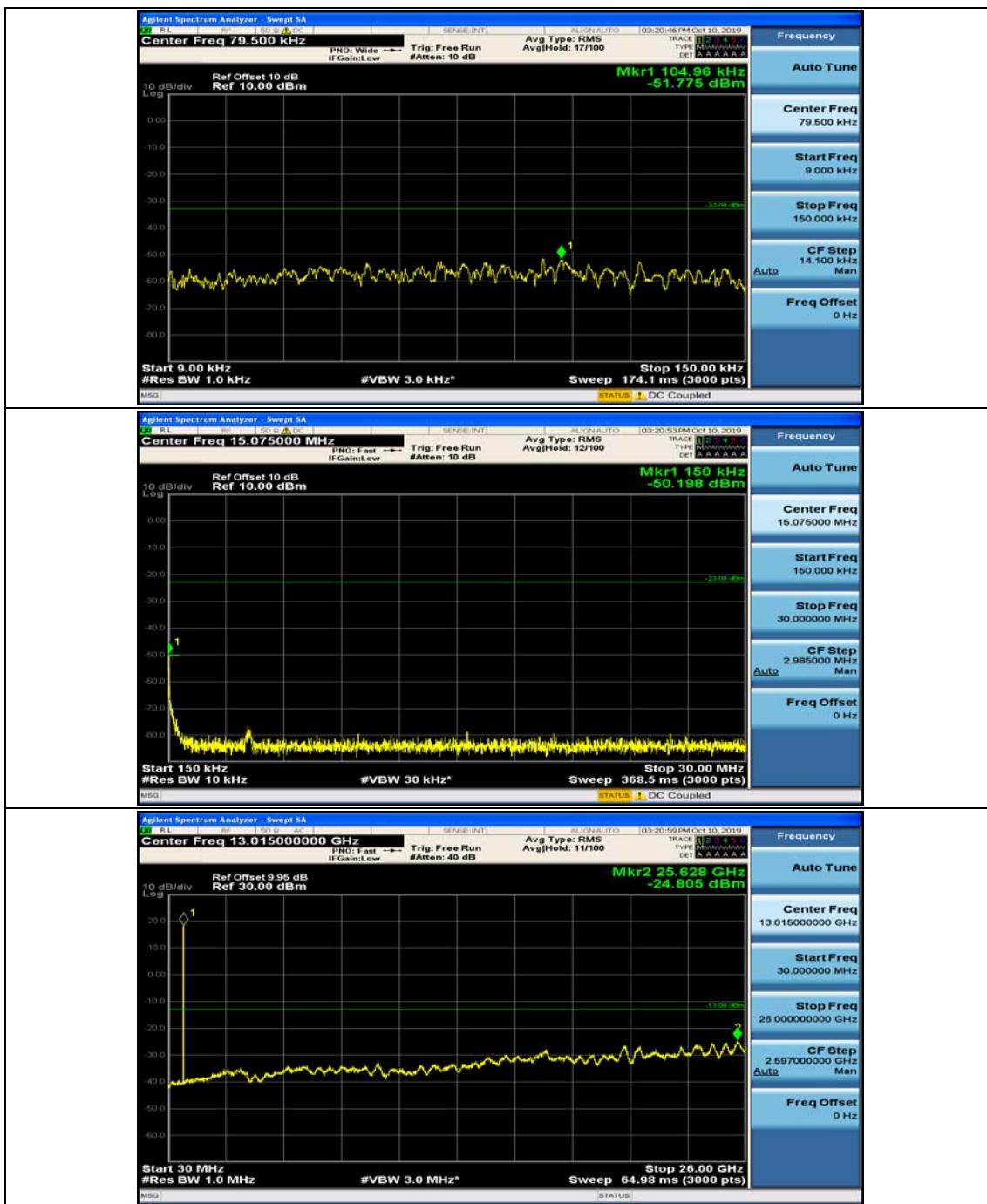


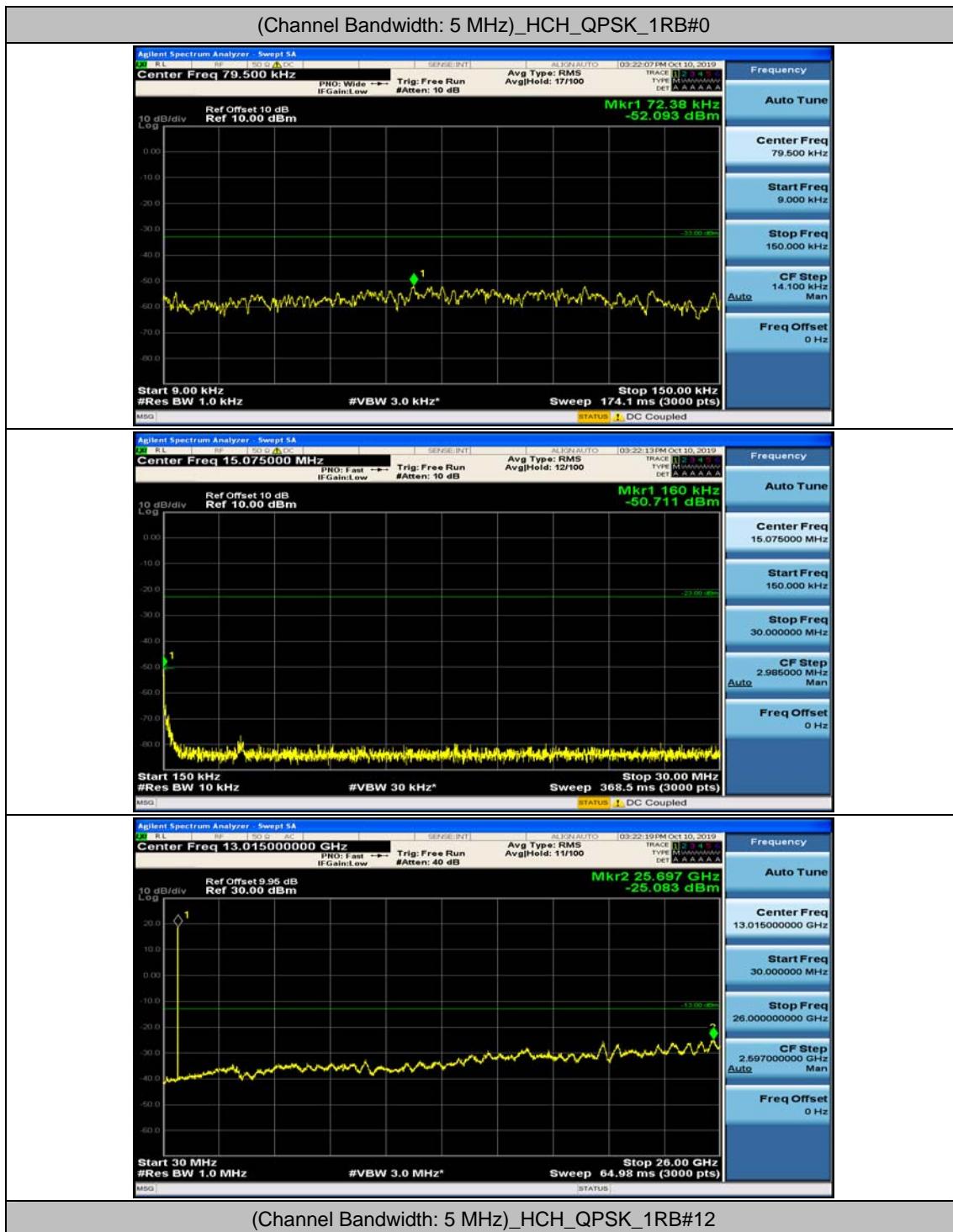


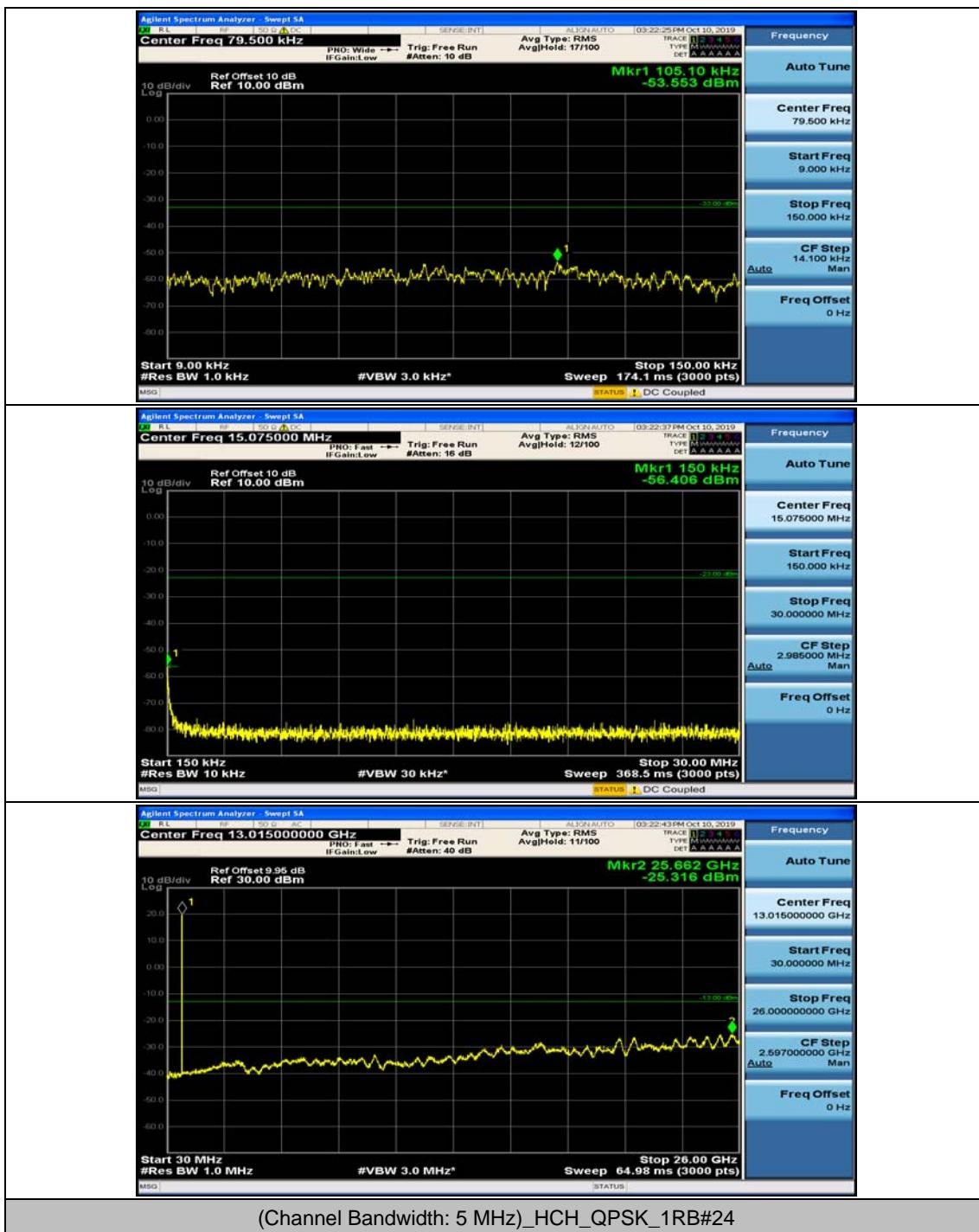


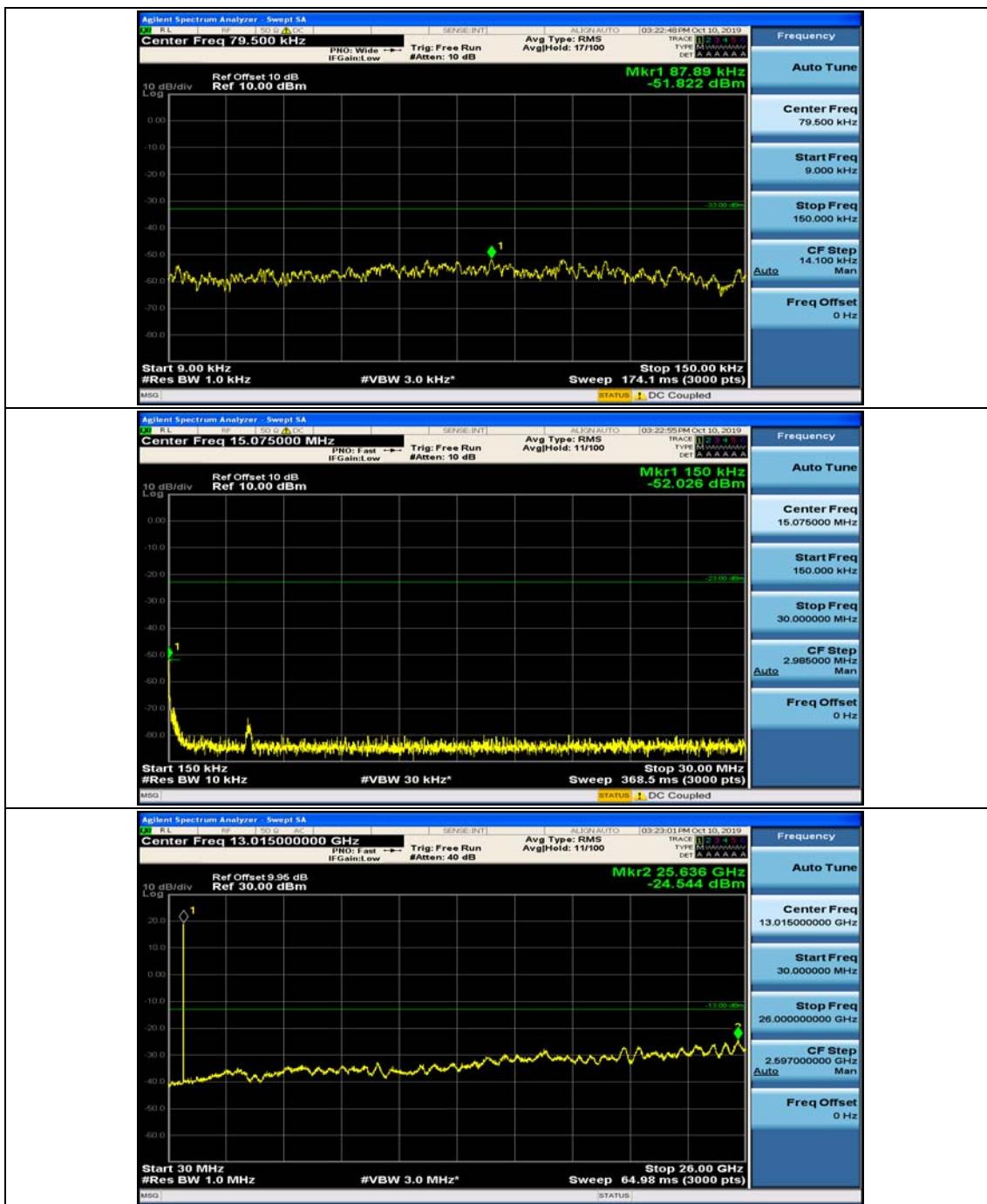


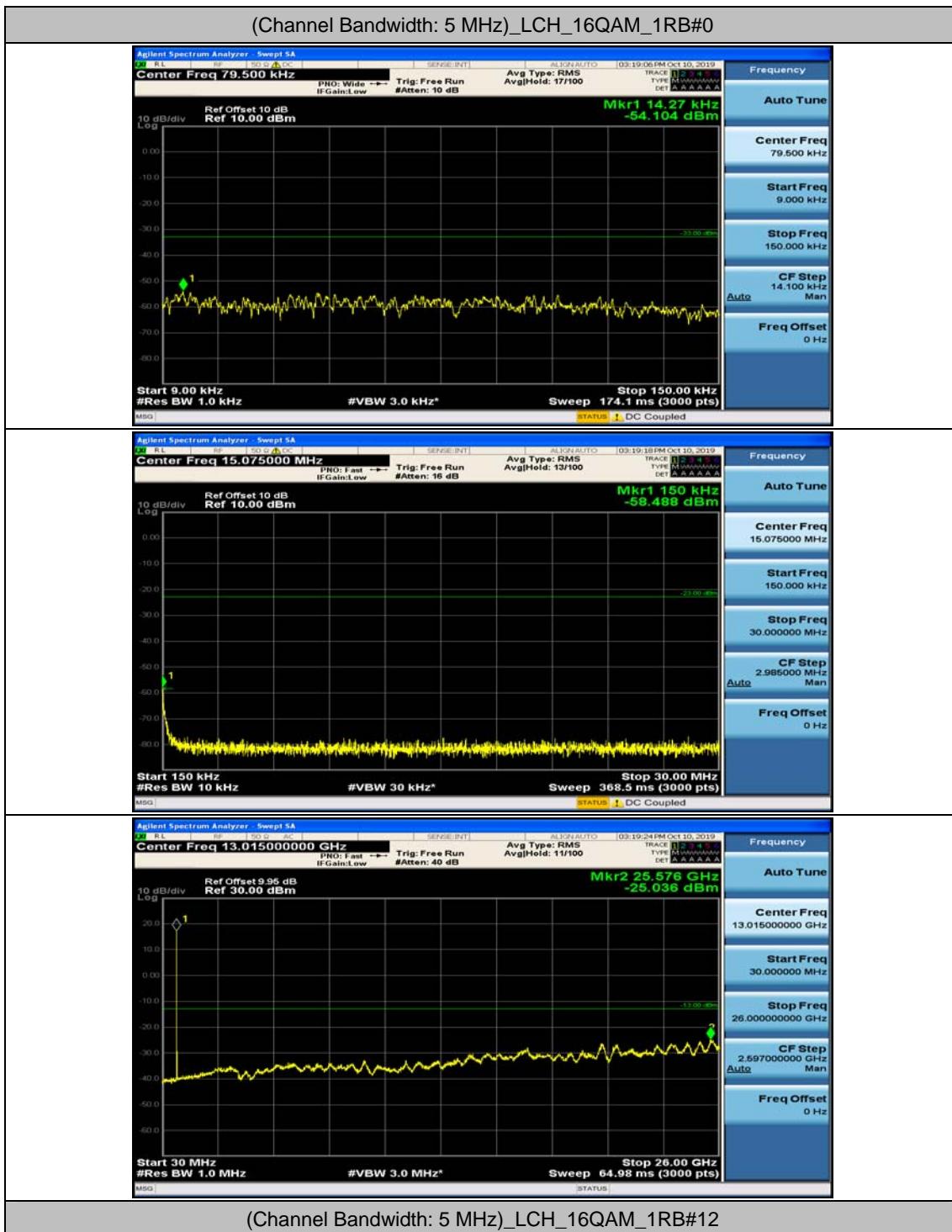


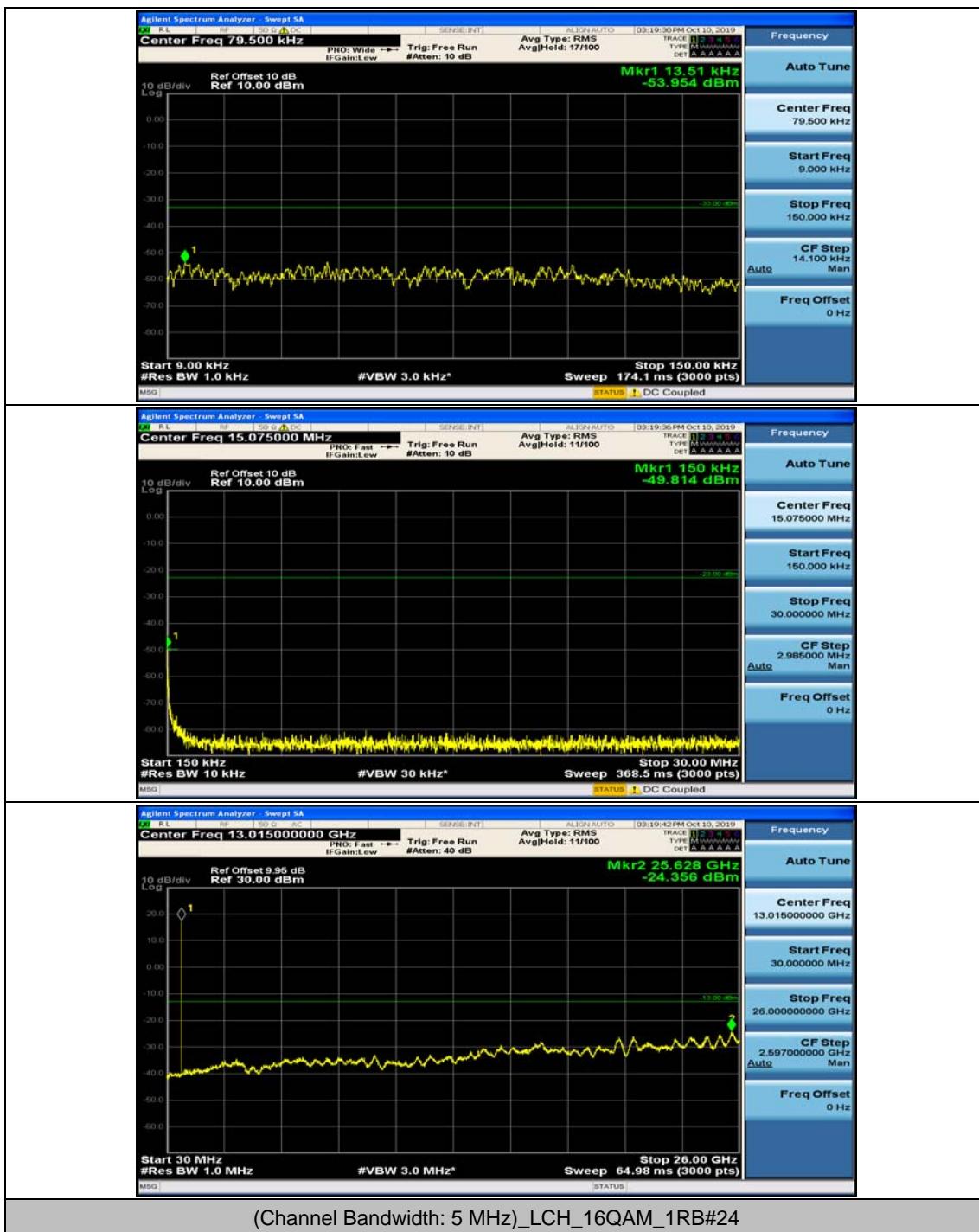


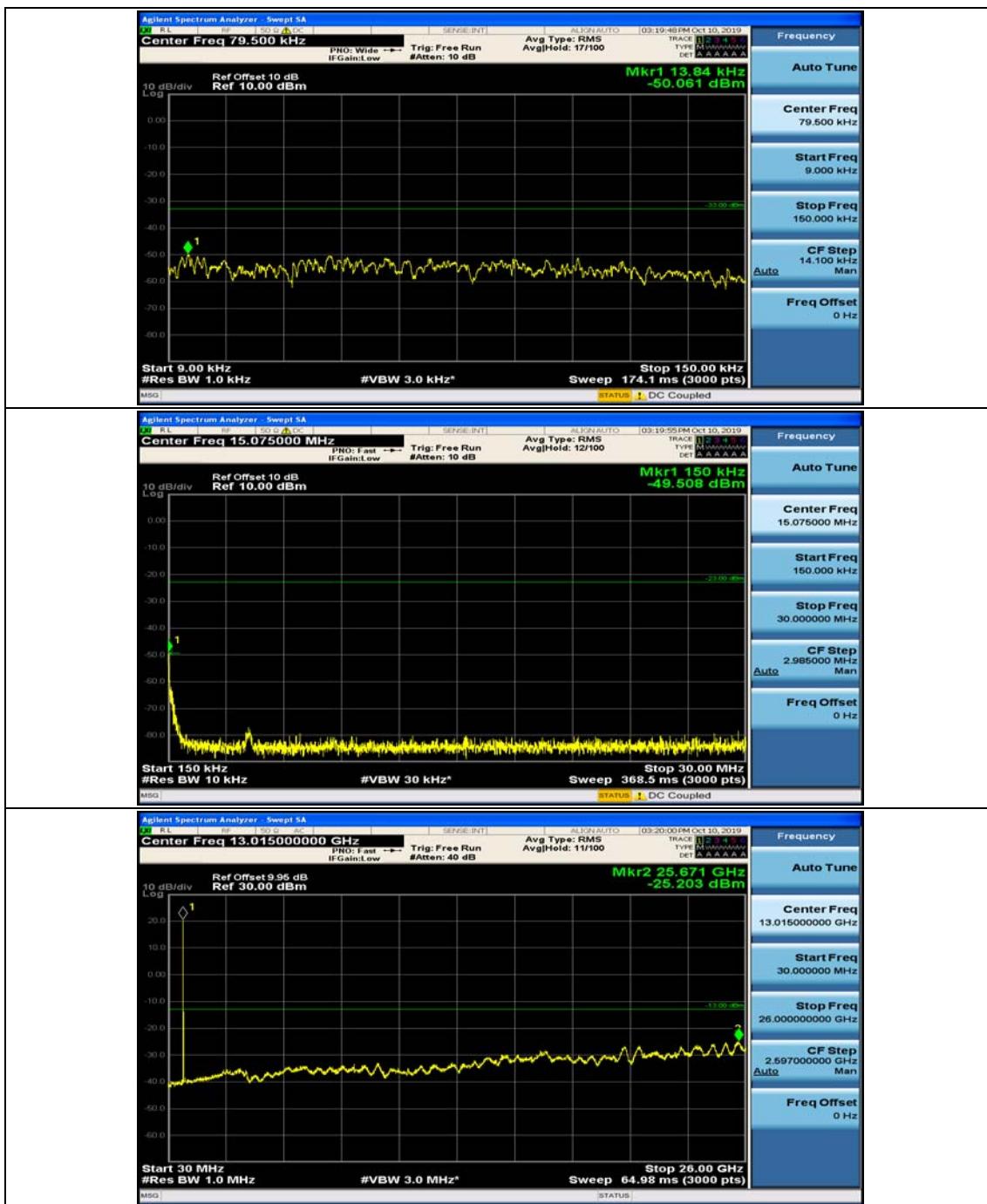


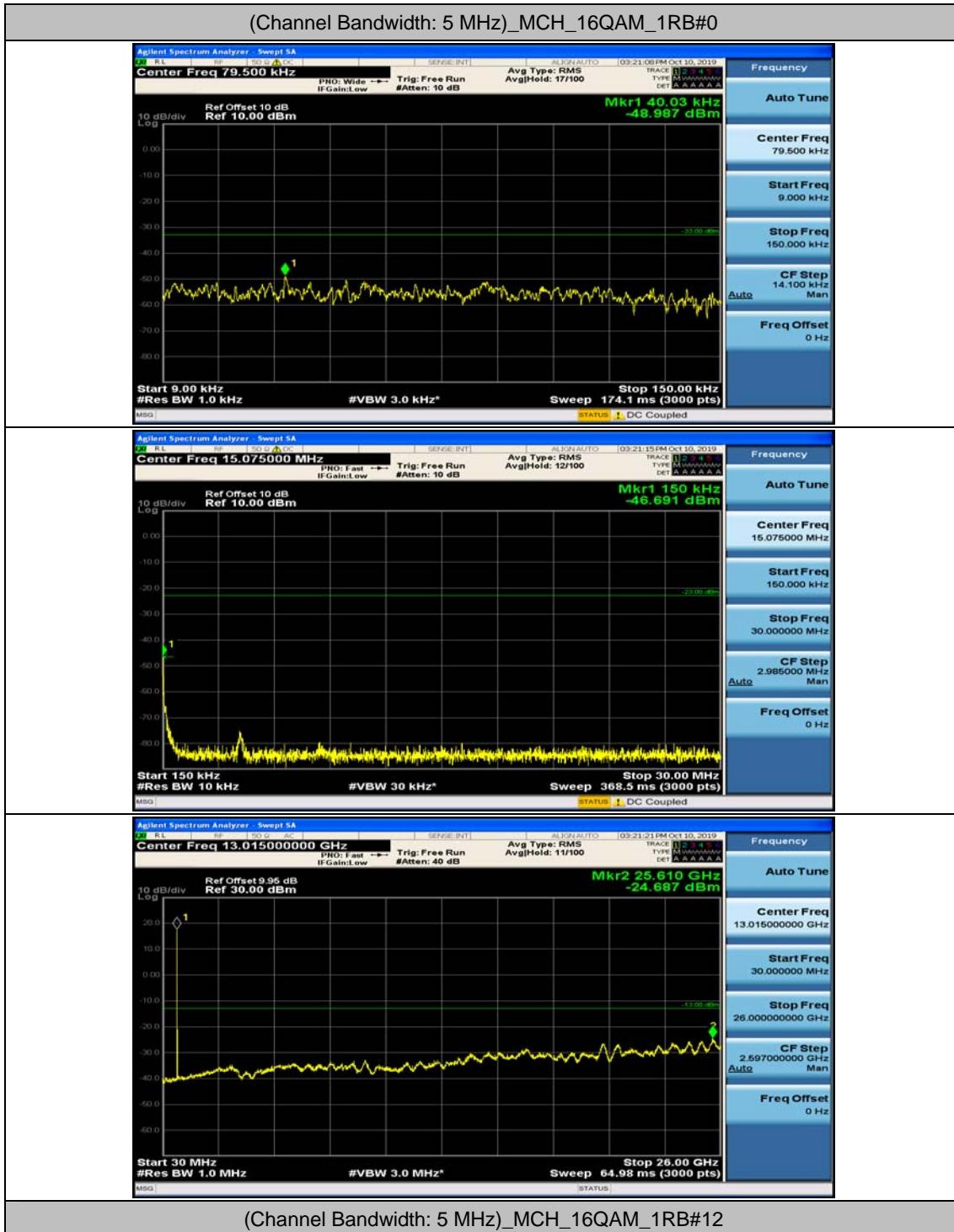


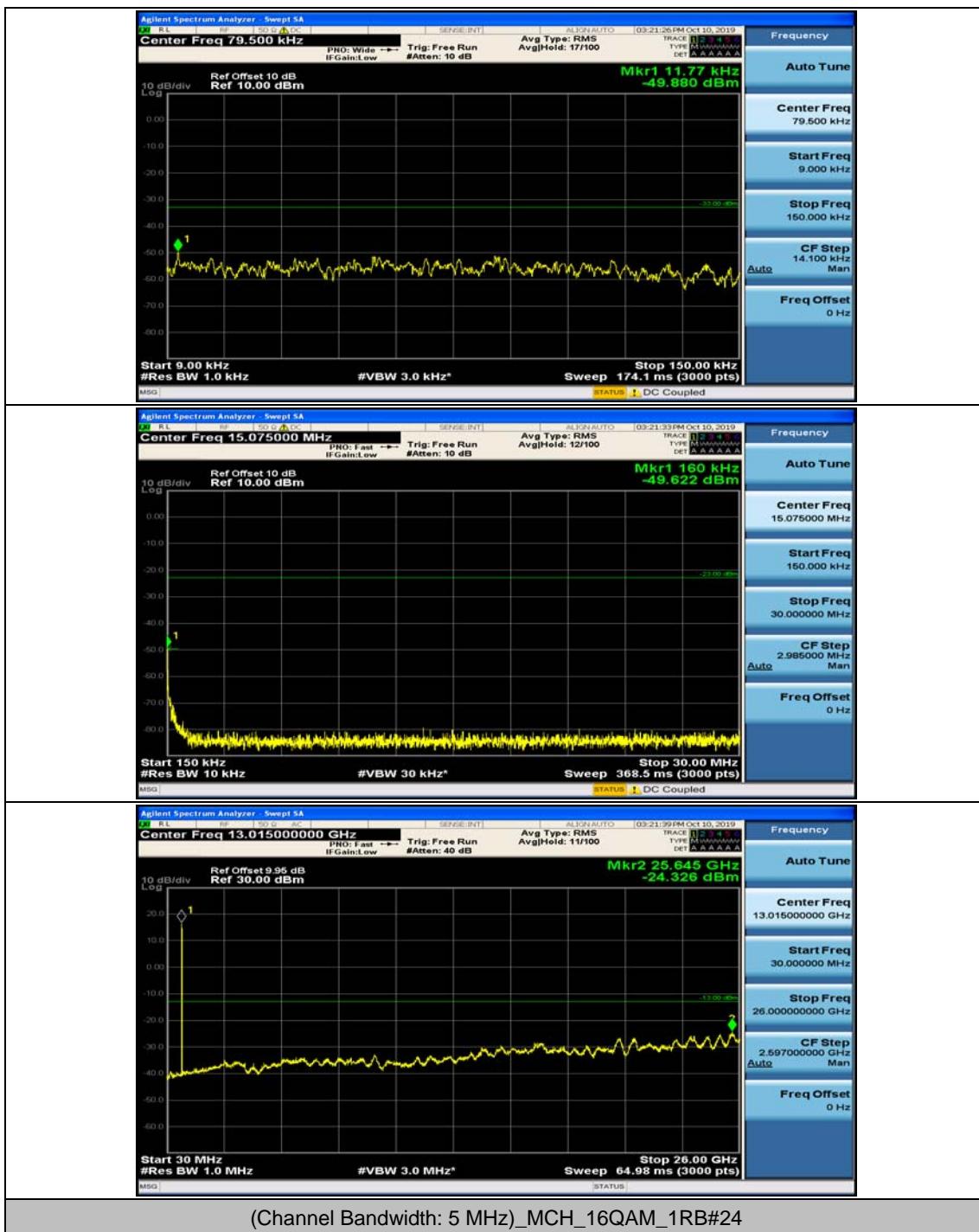


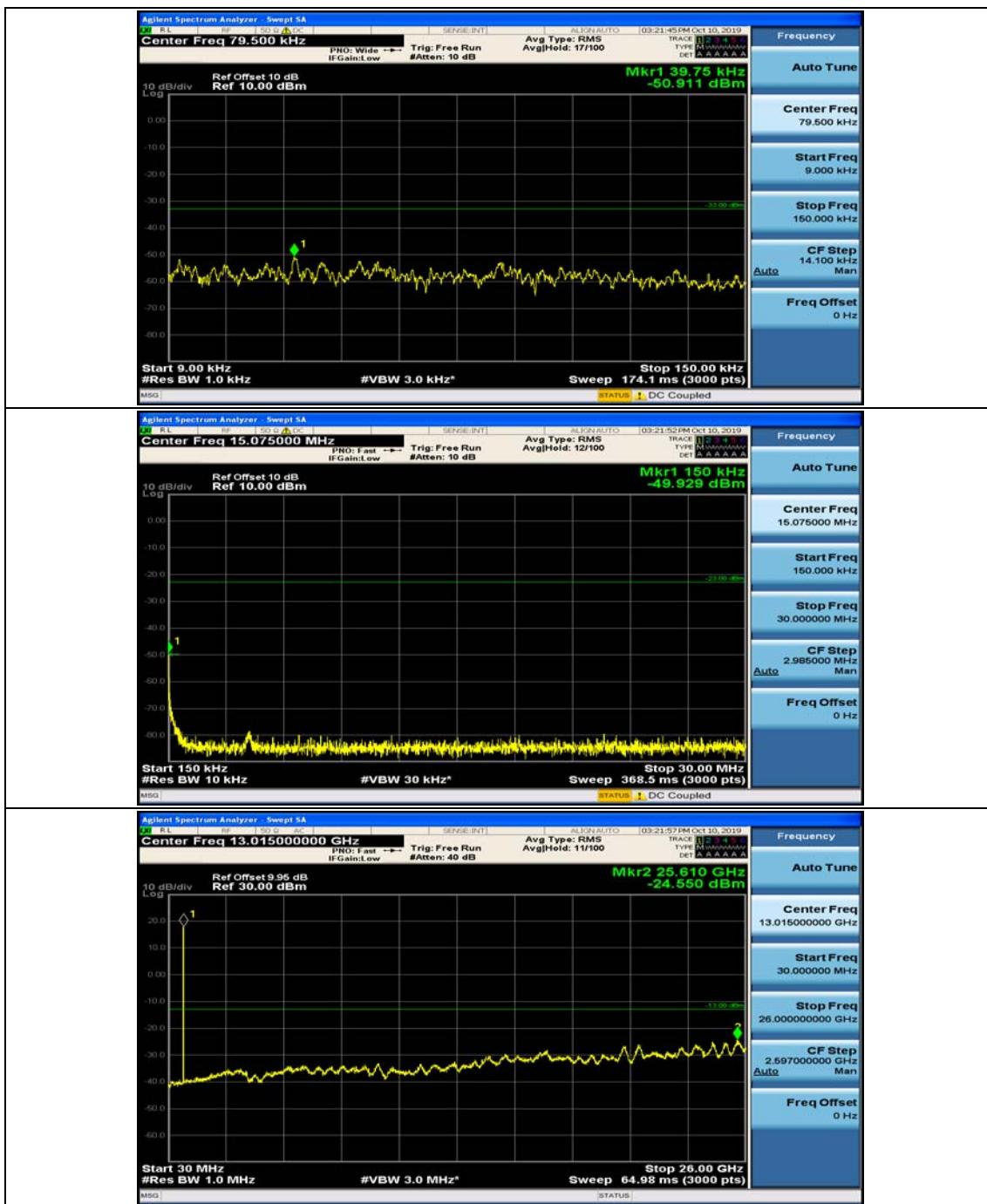


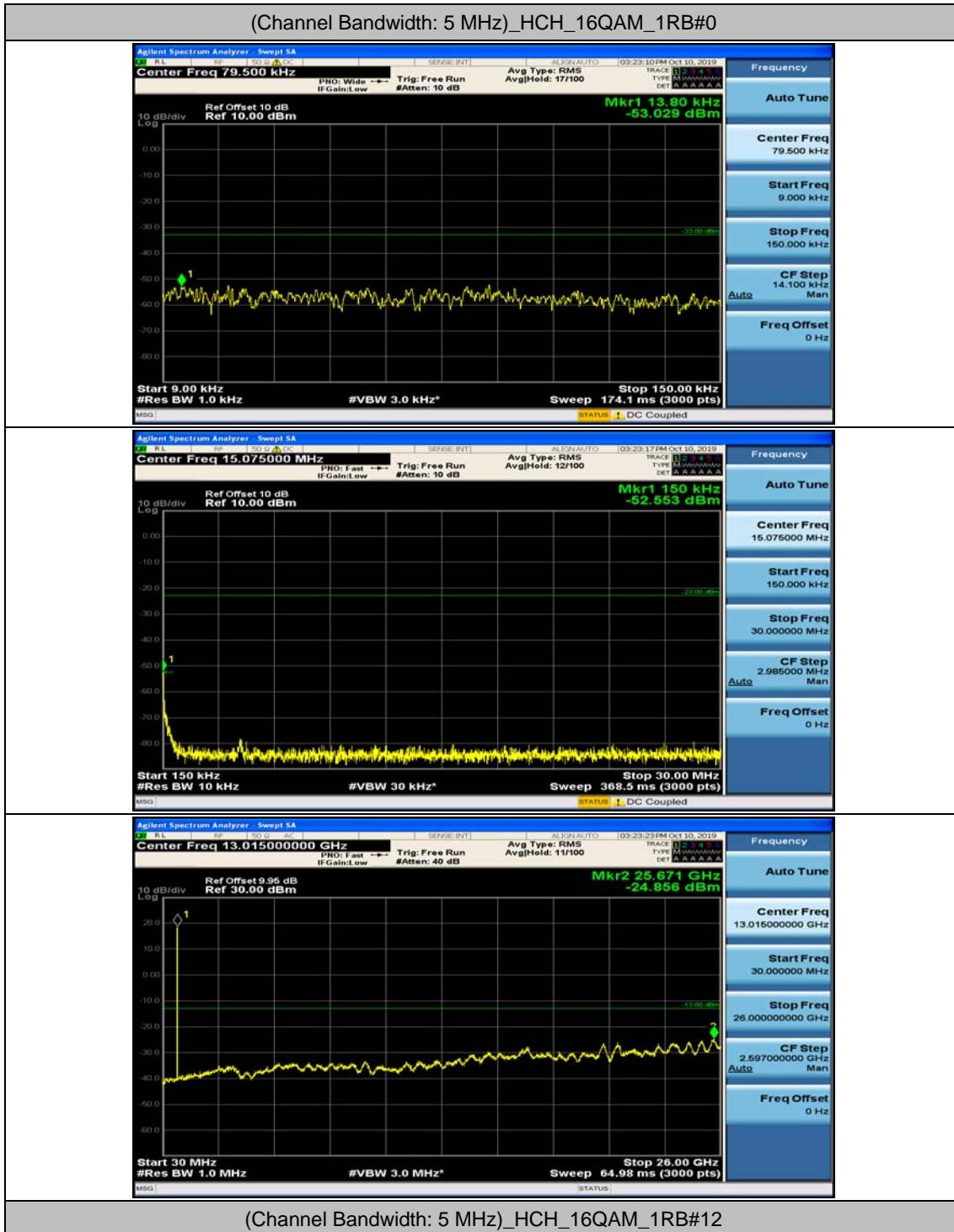


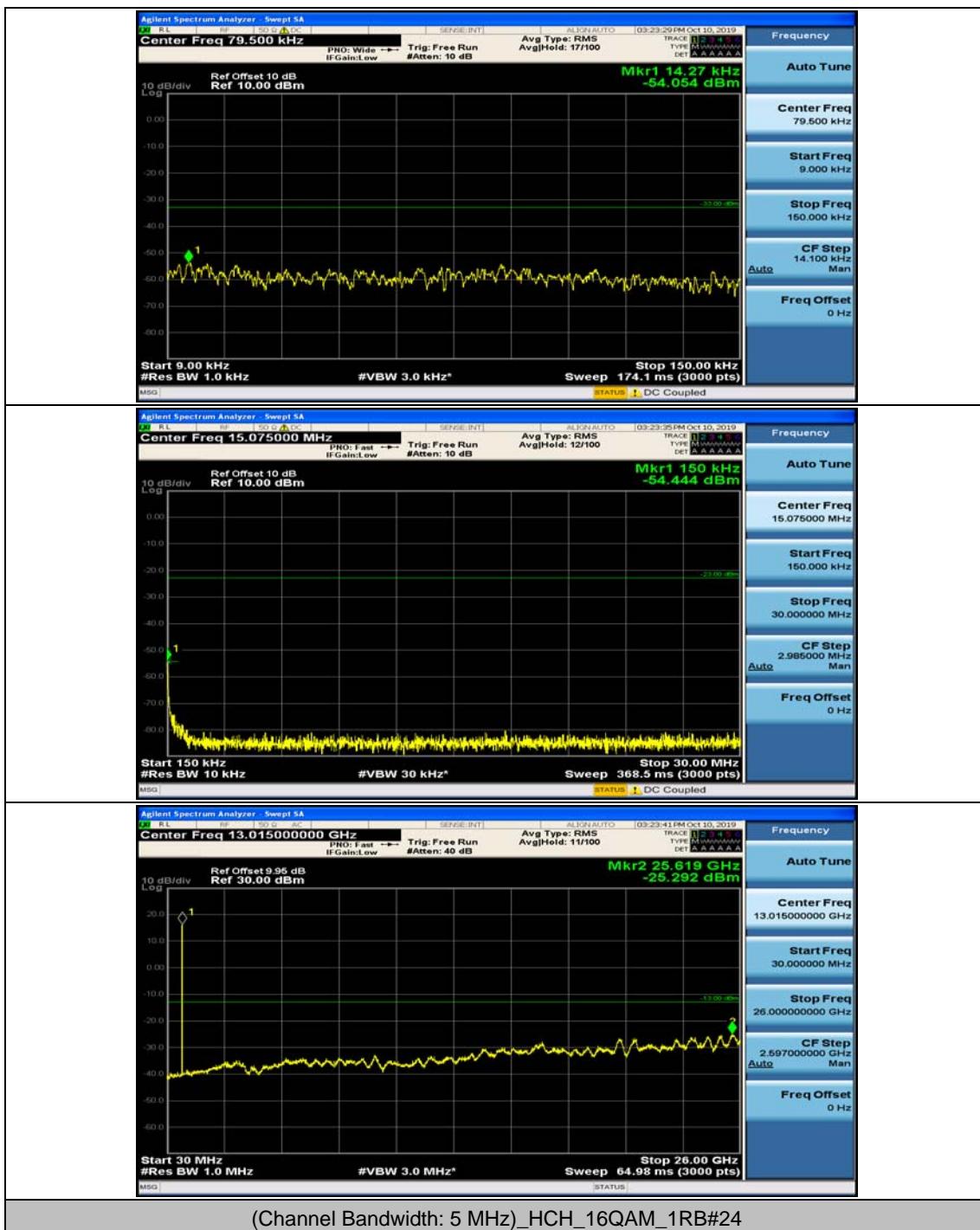


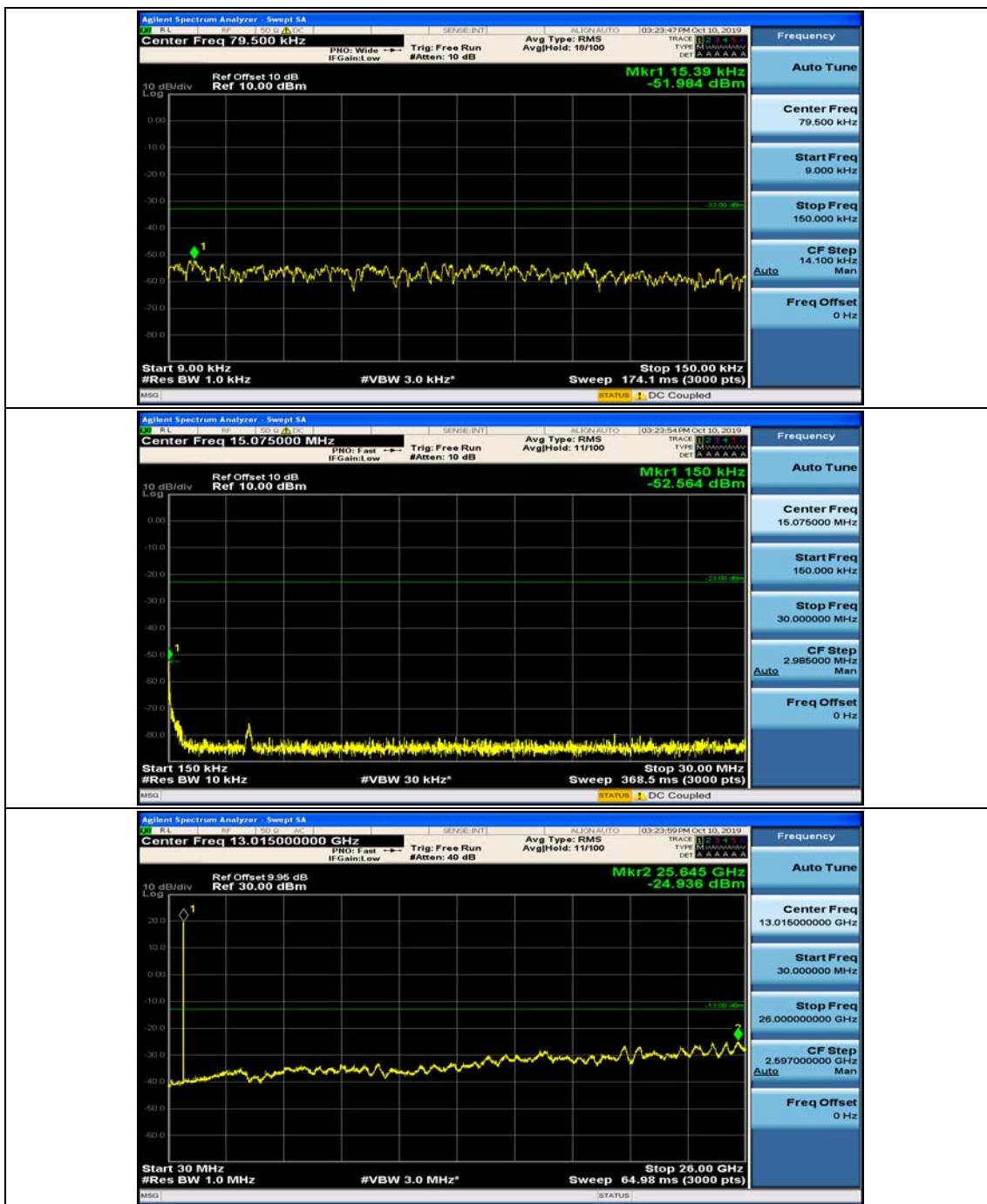




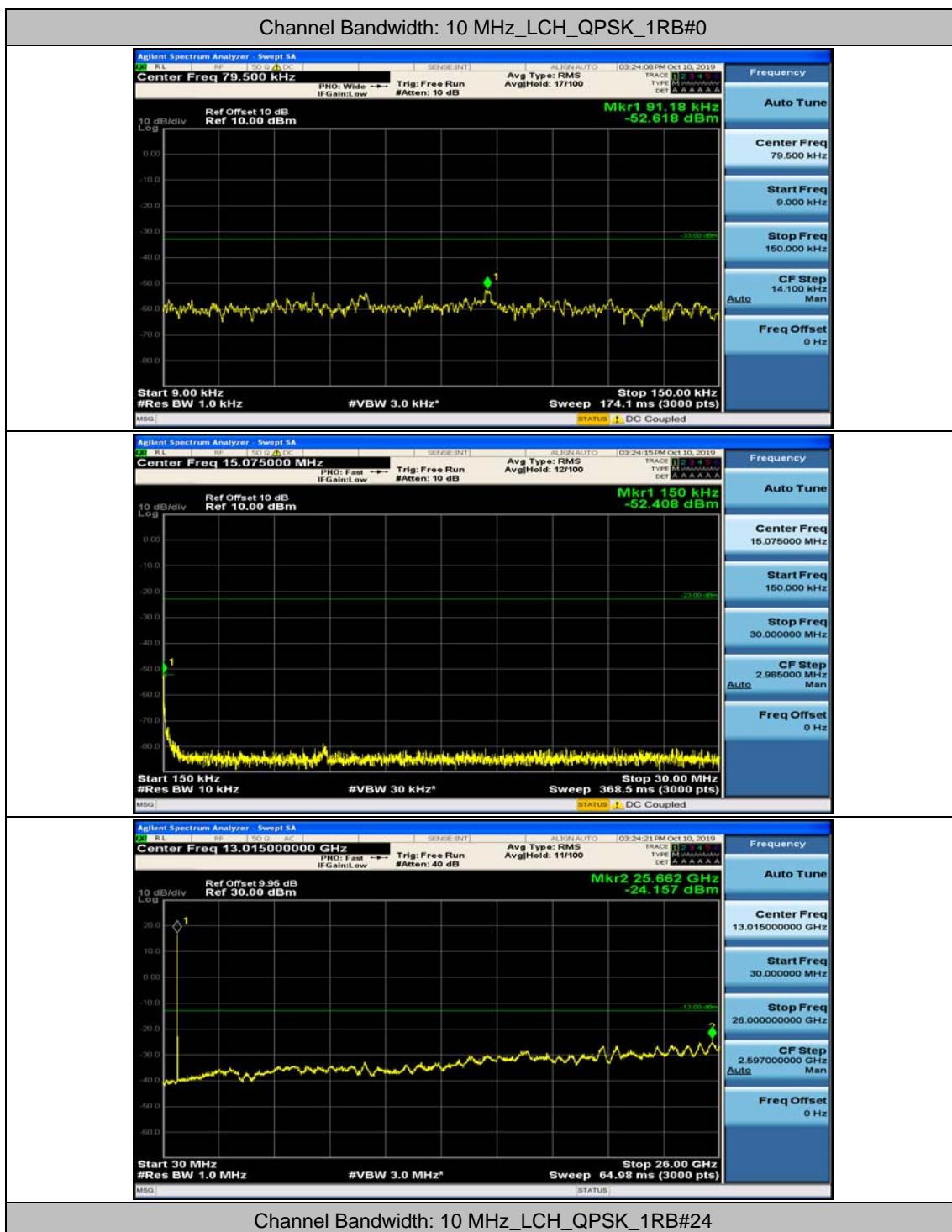


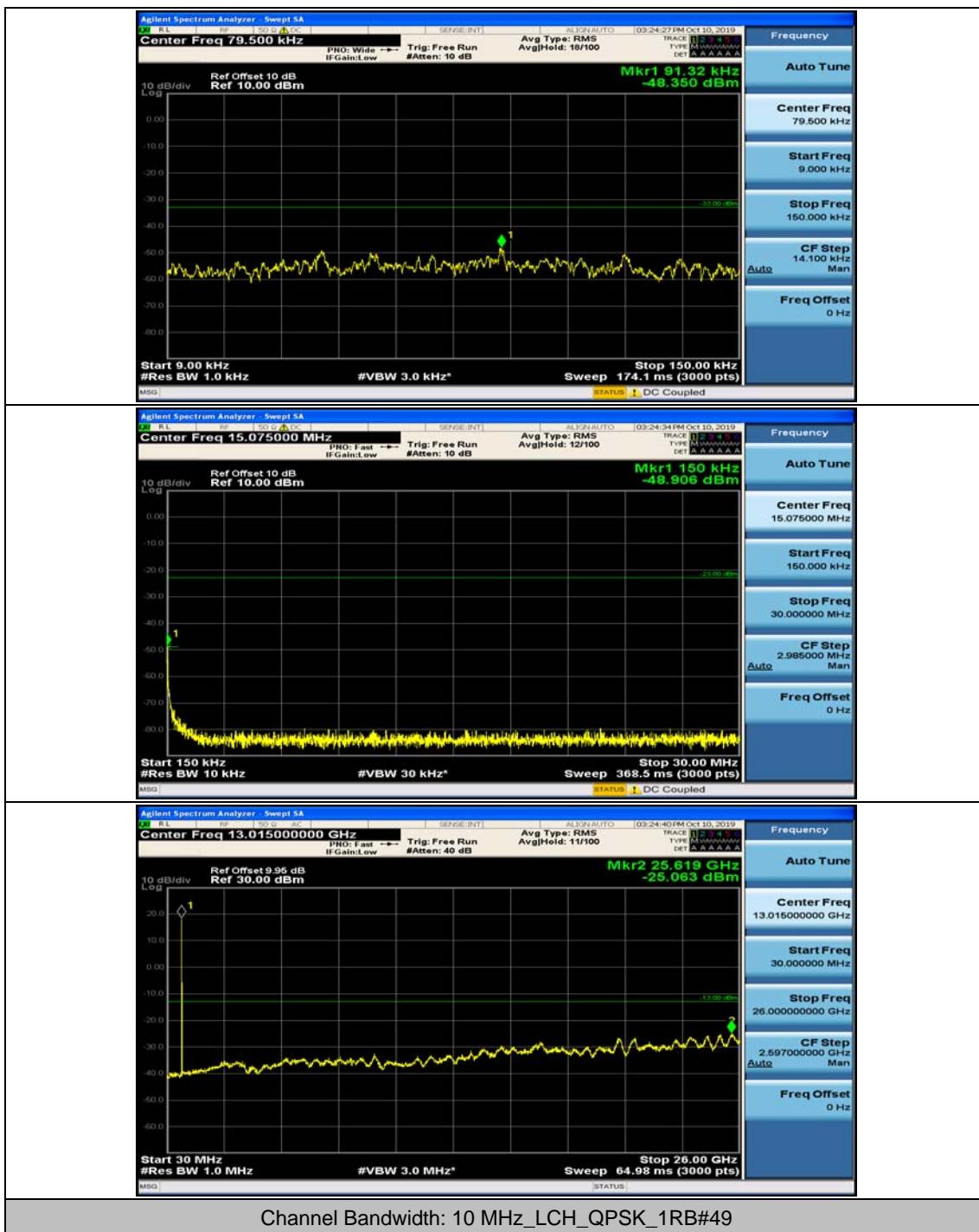


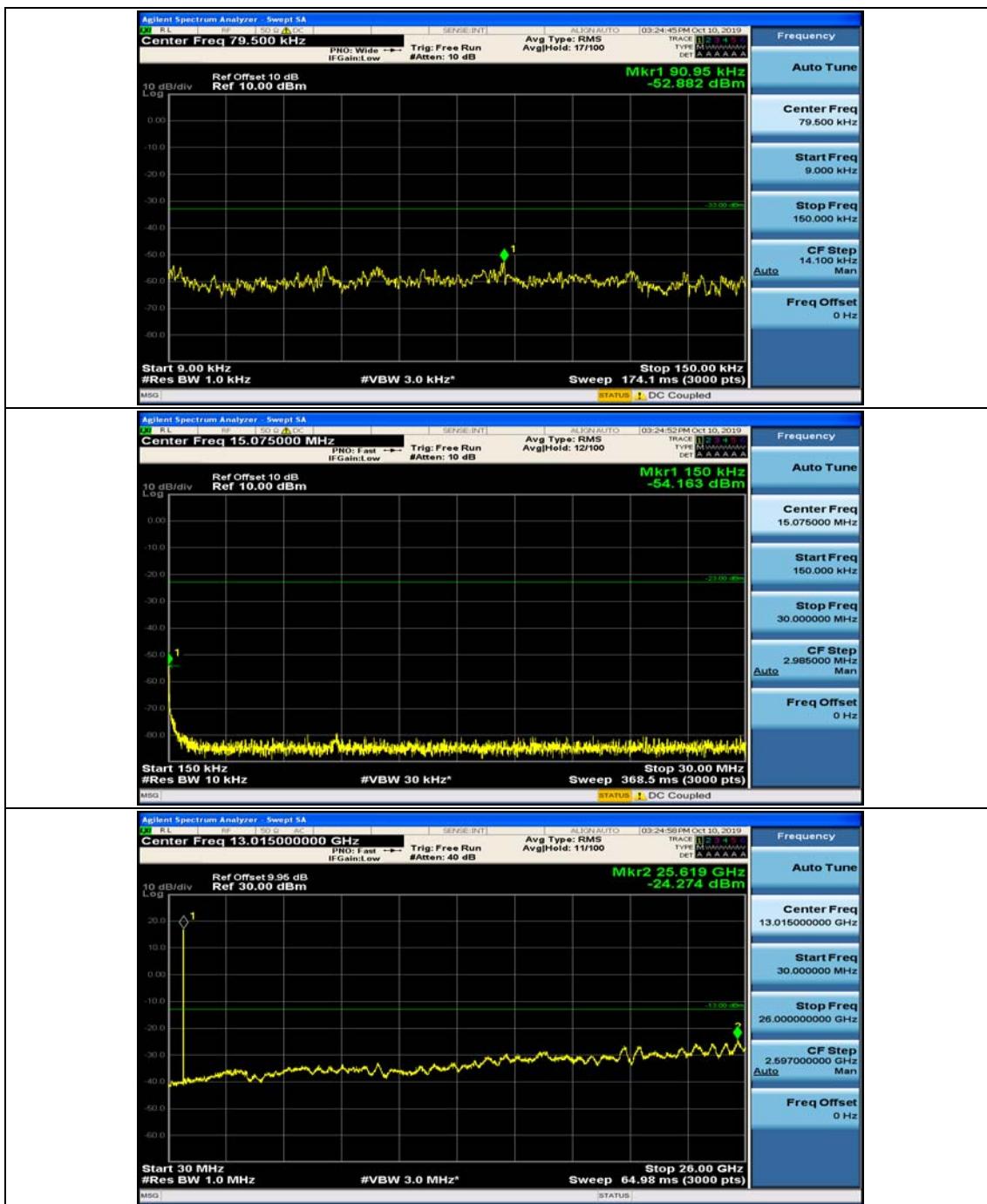


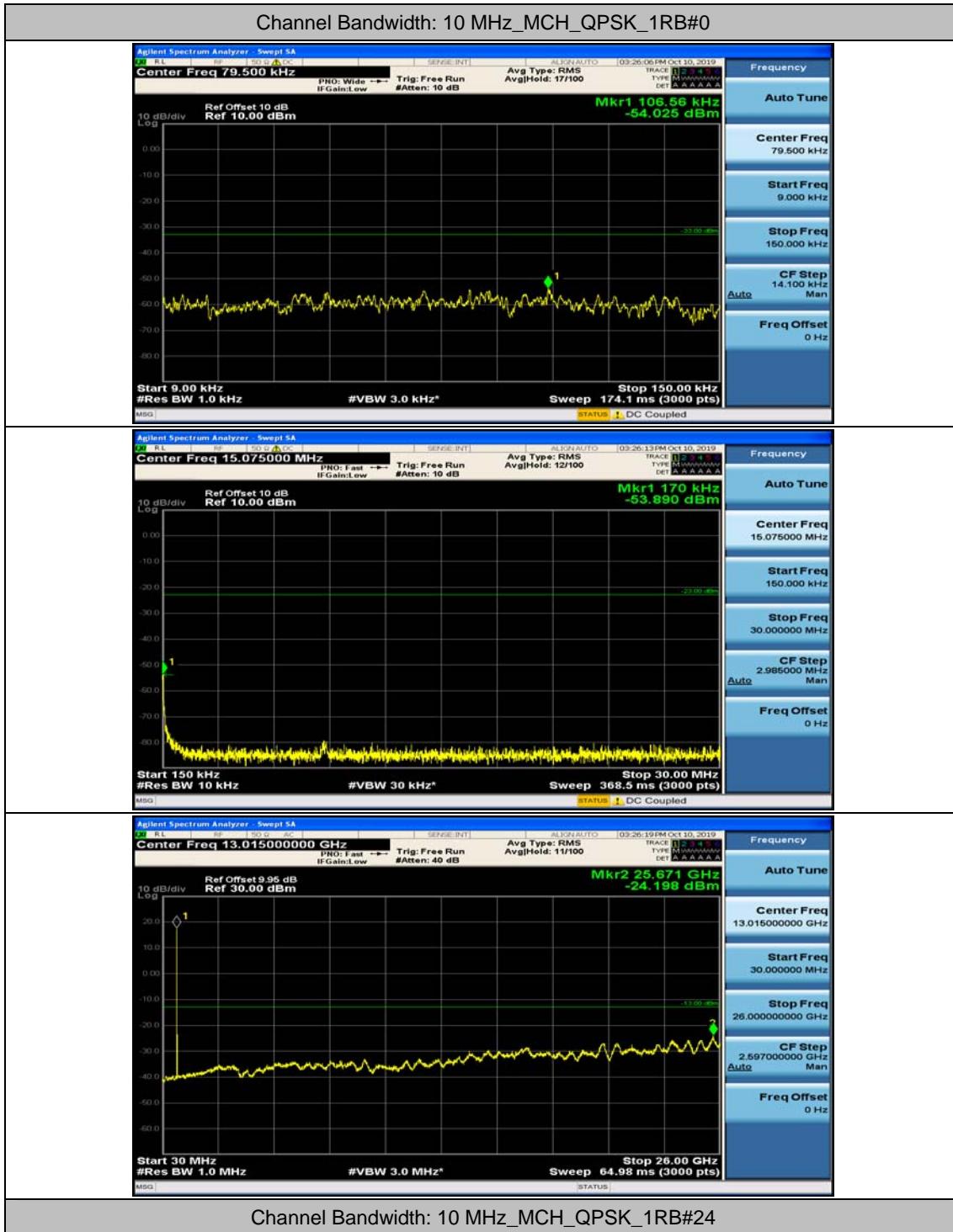


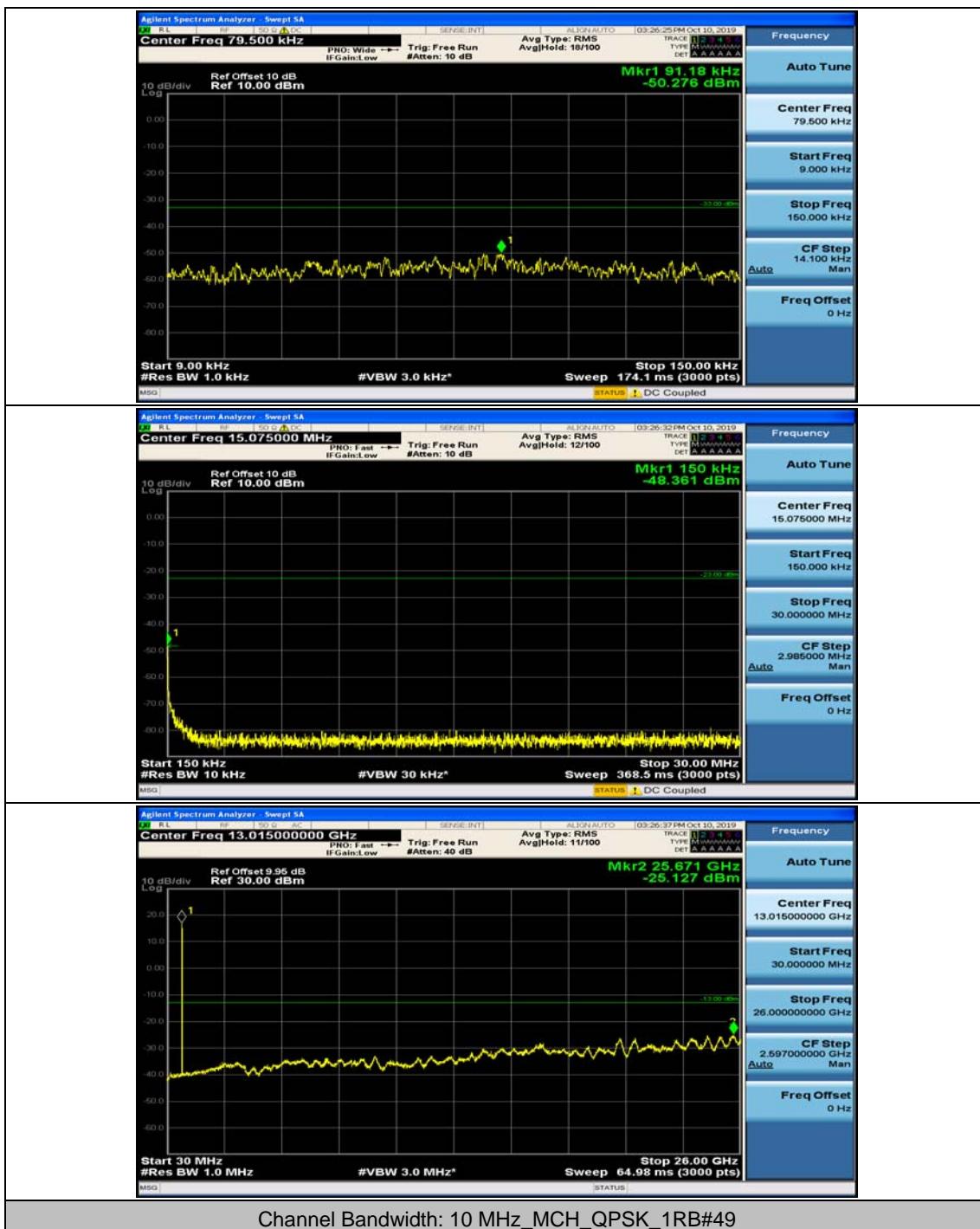
## Channel Bandwidth: 10 MHz

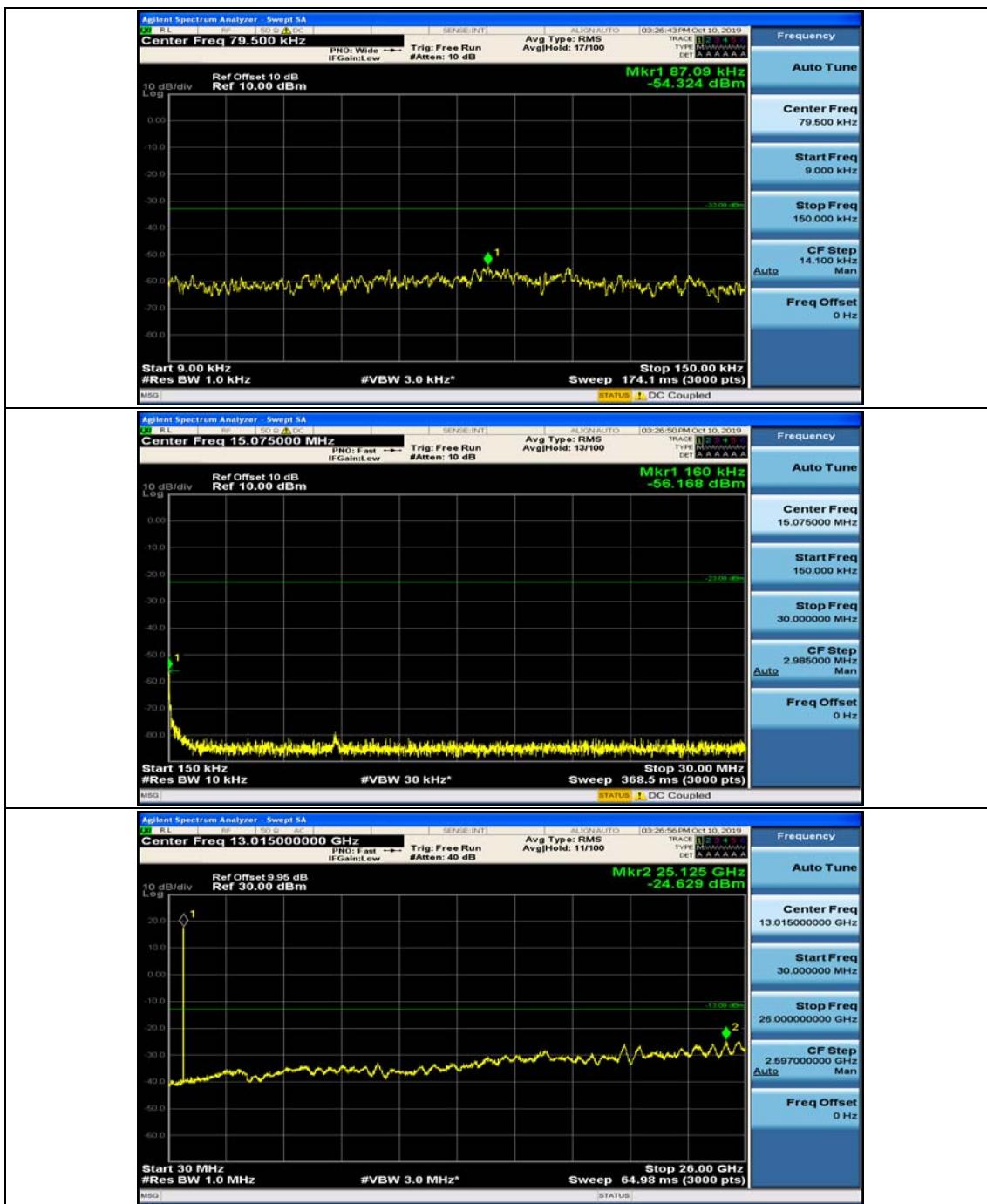


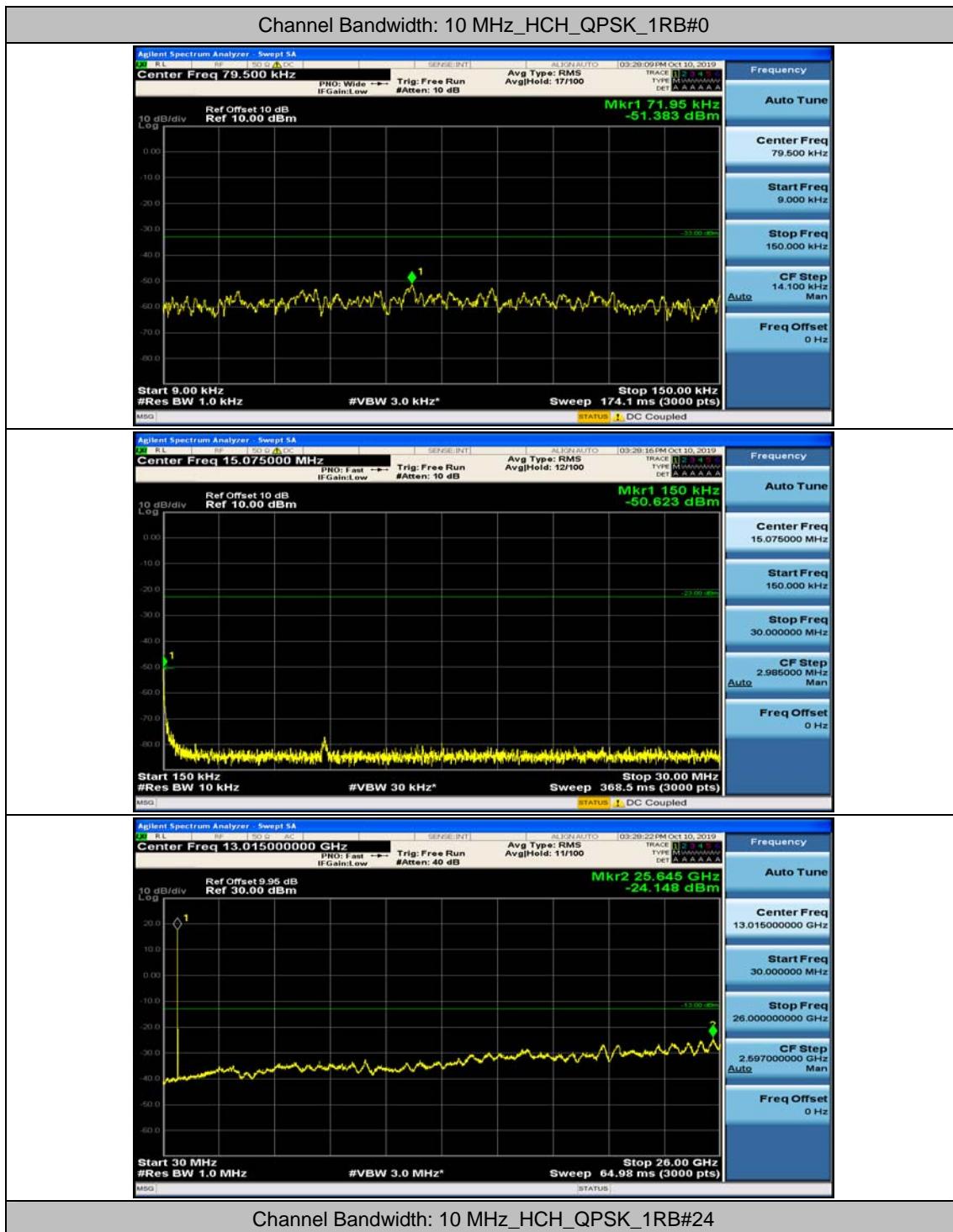


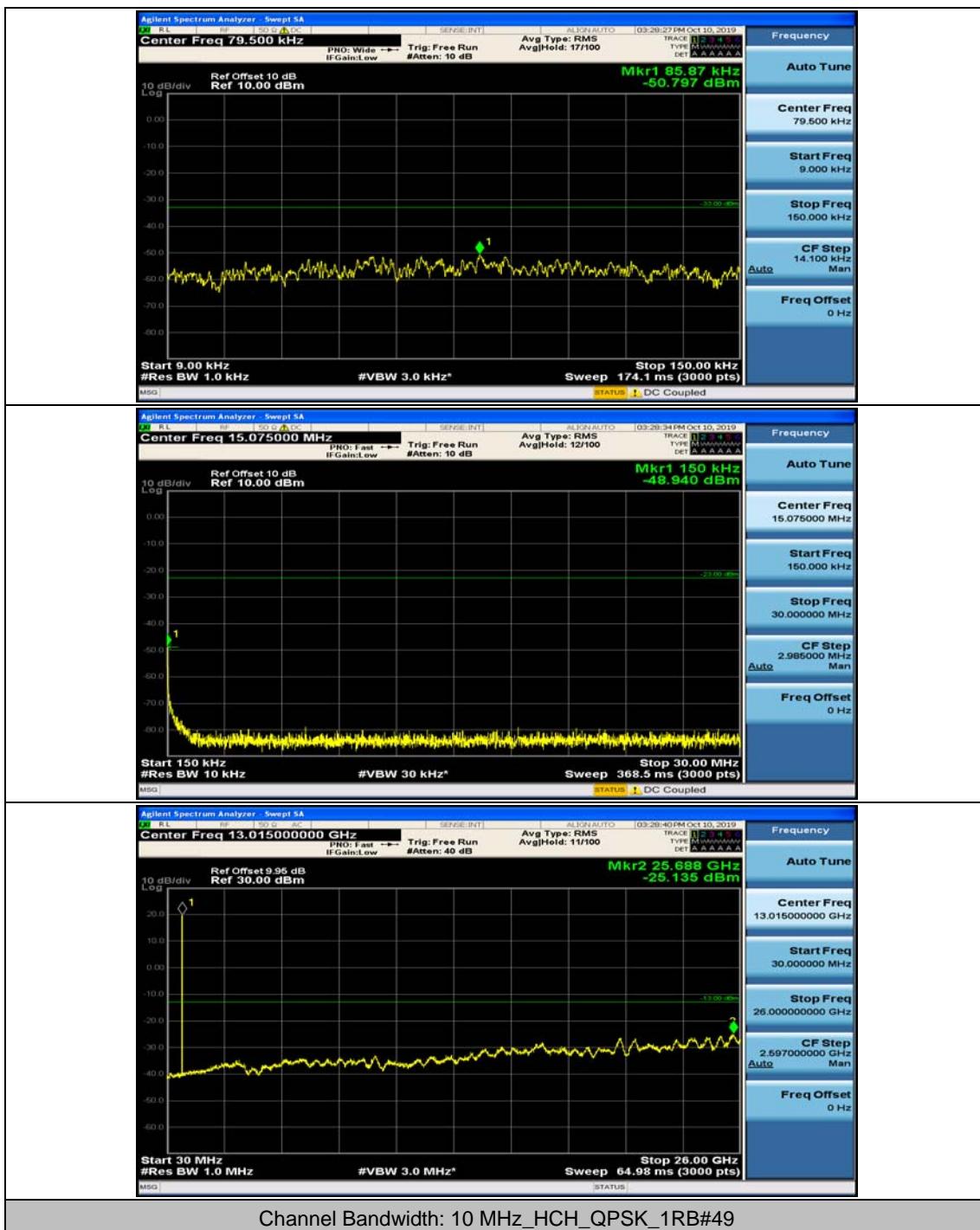


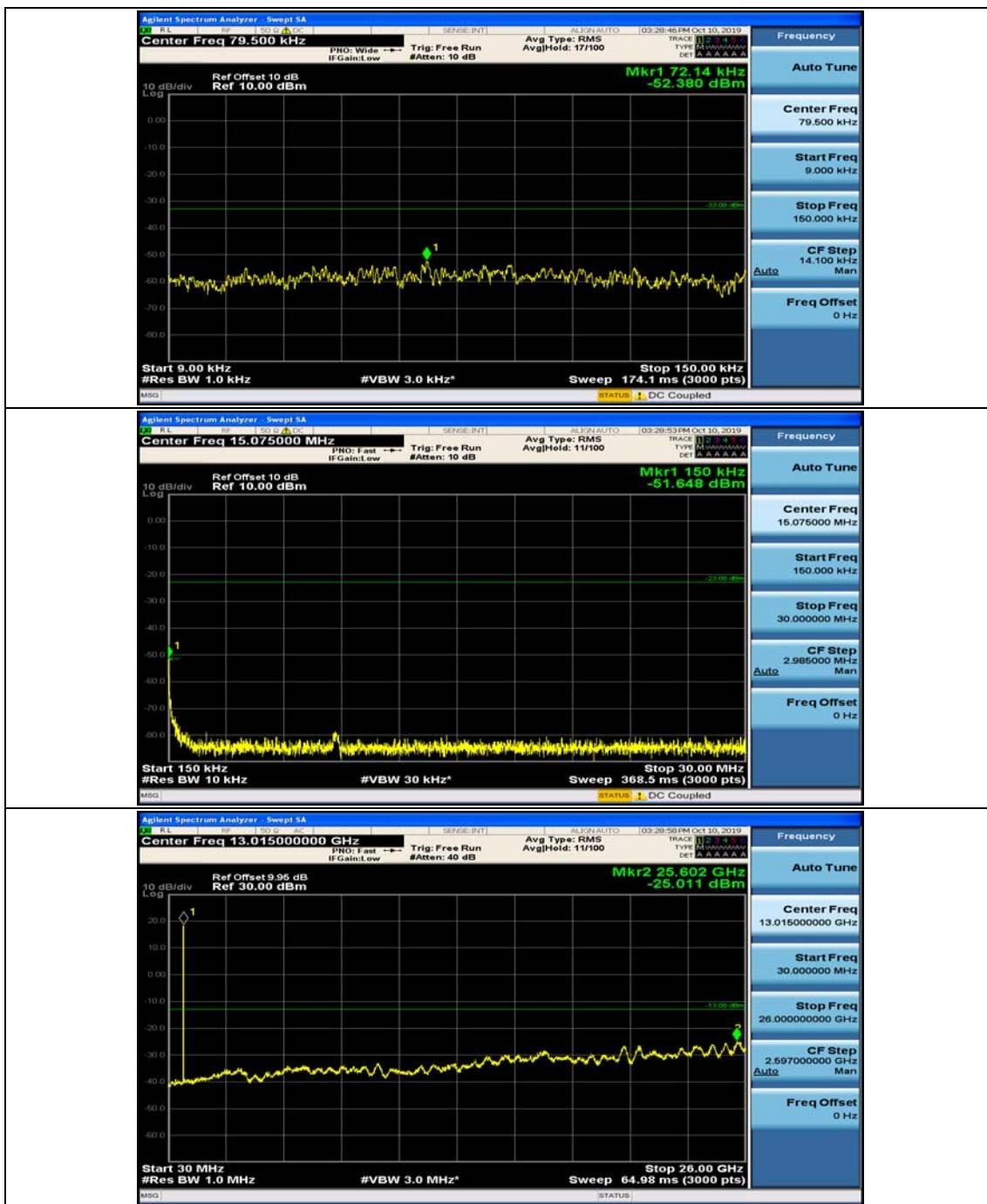


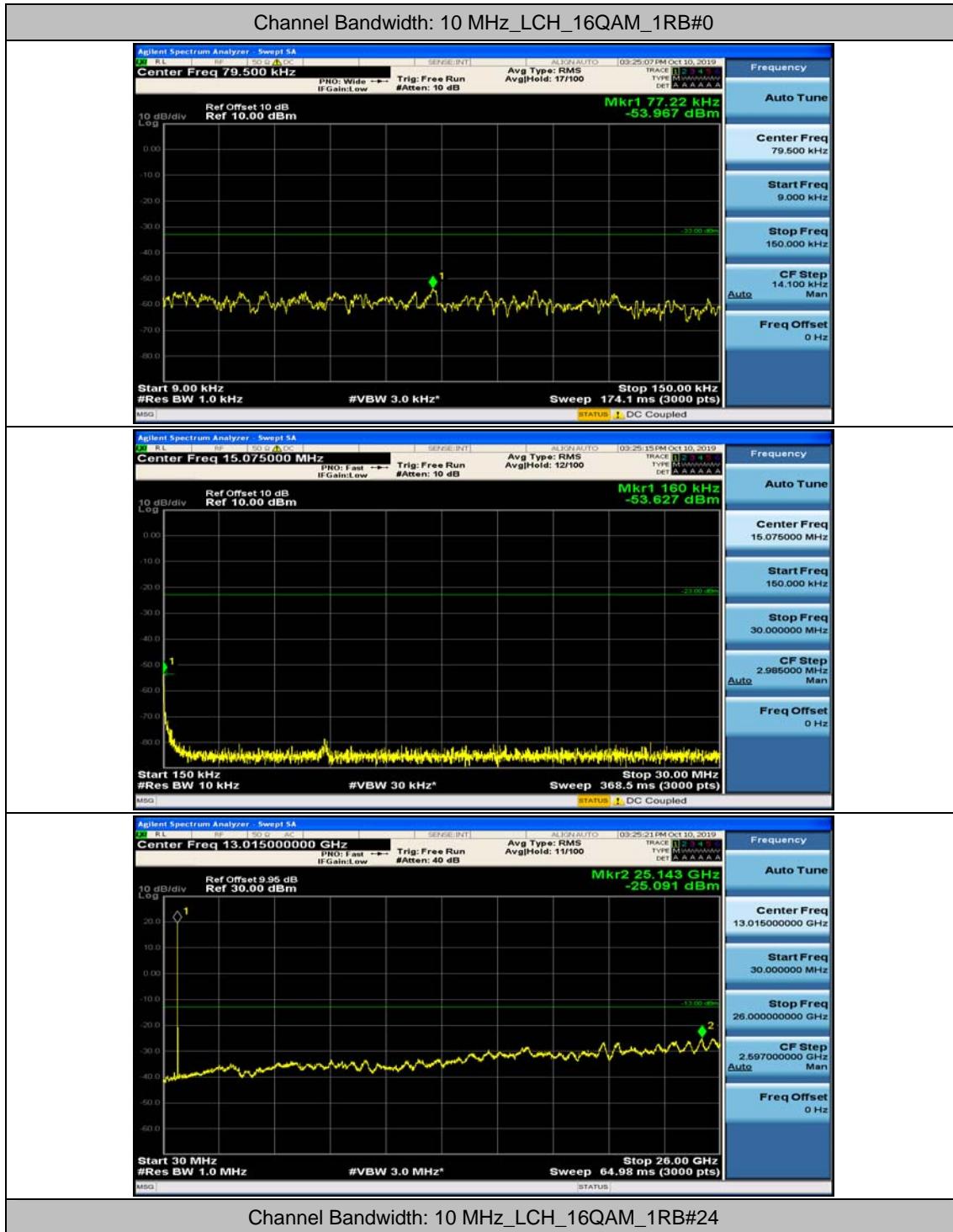


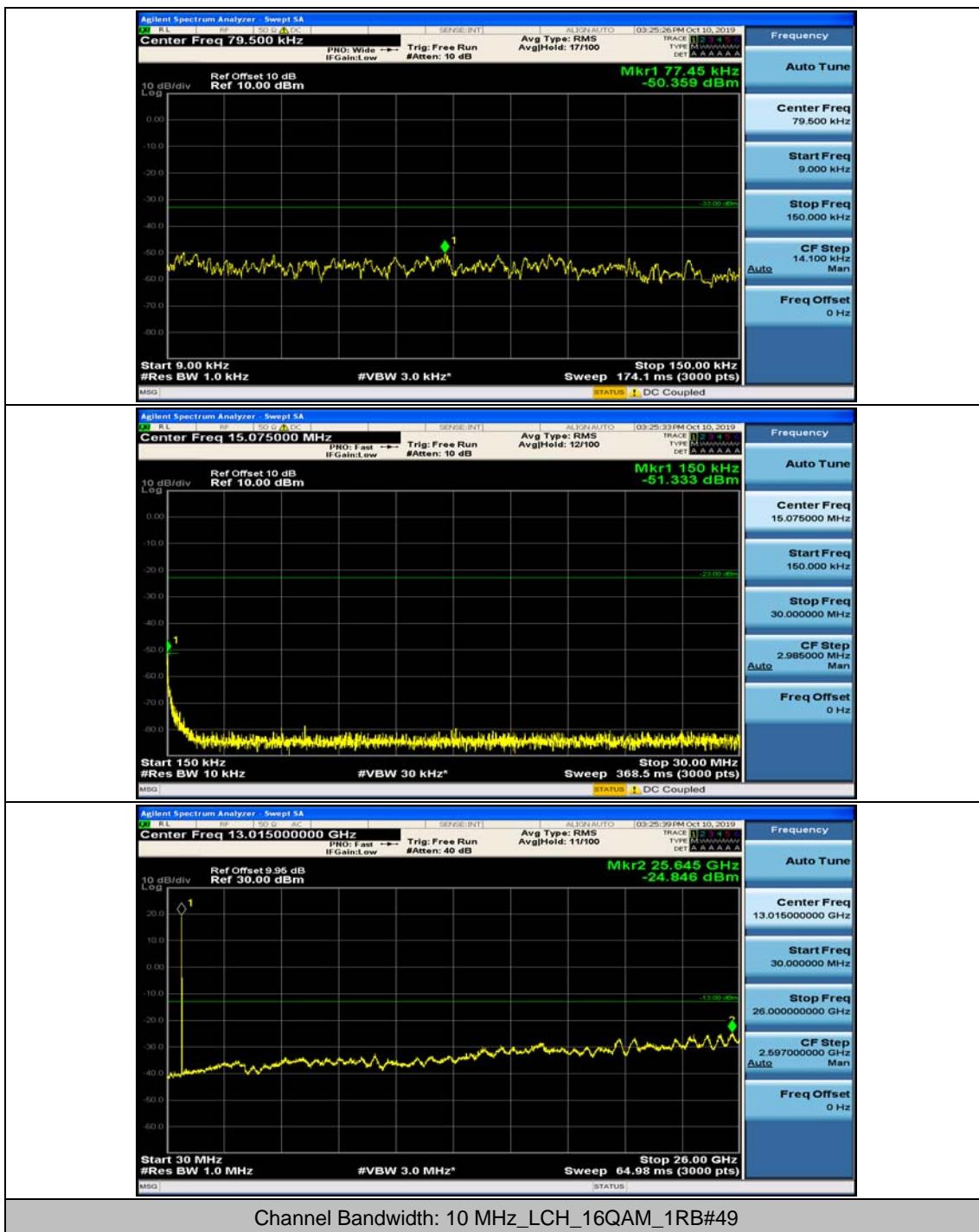


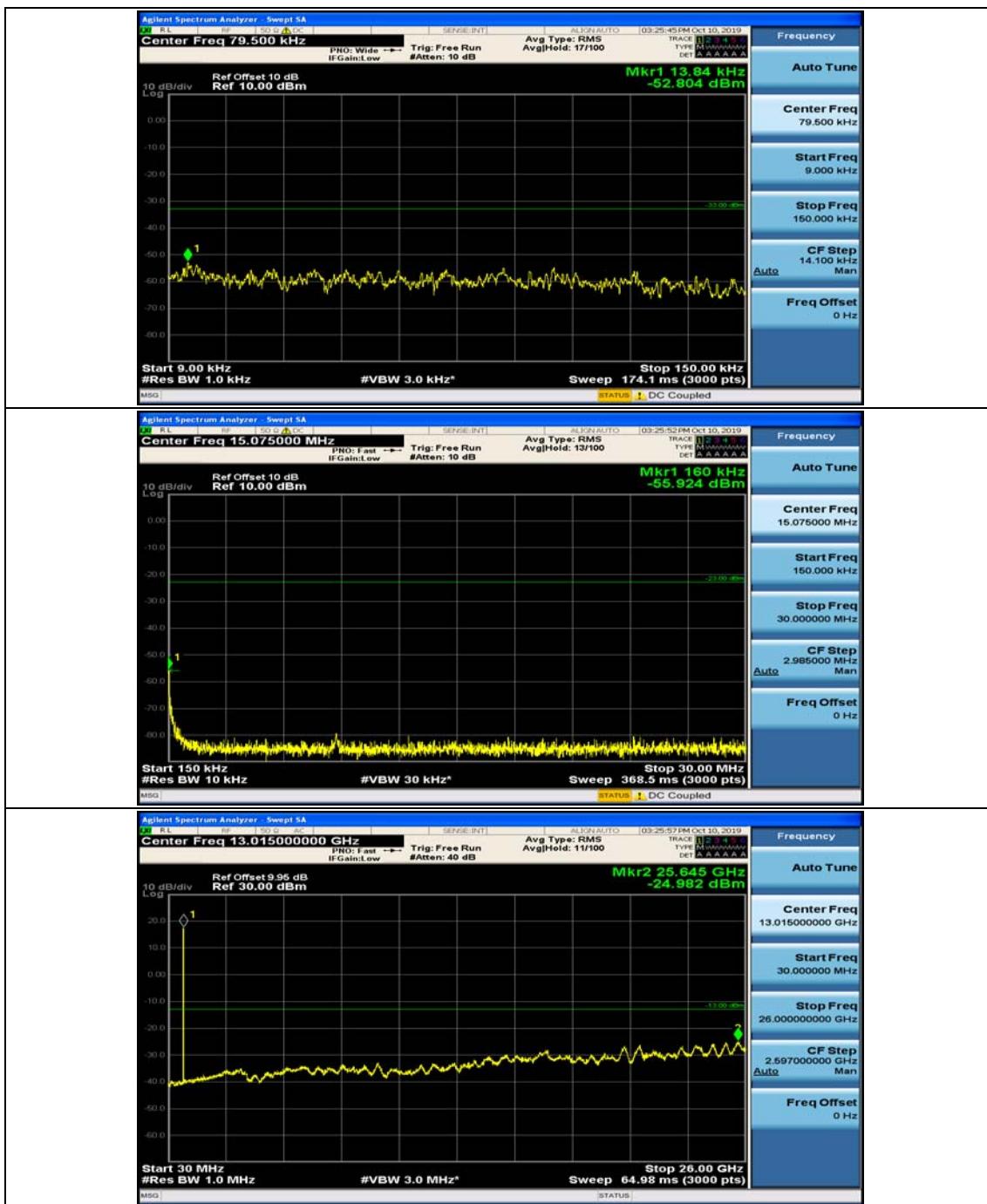


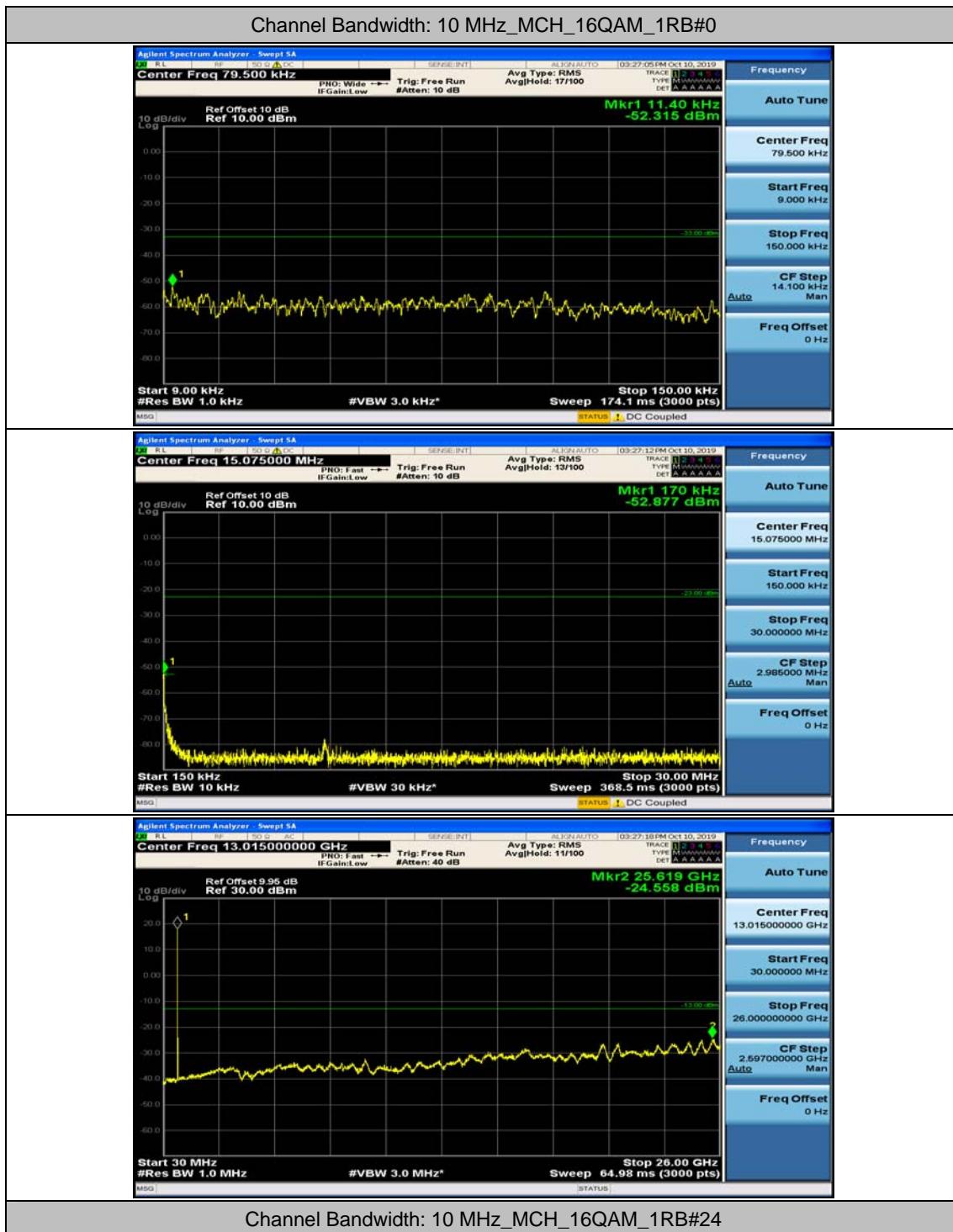


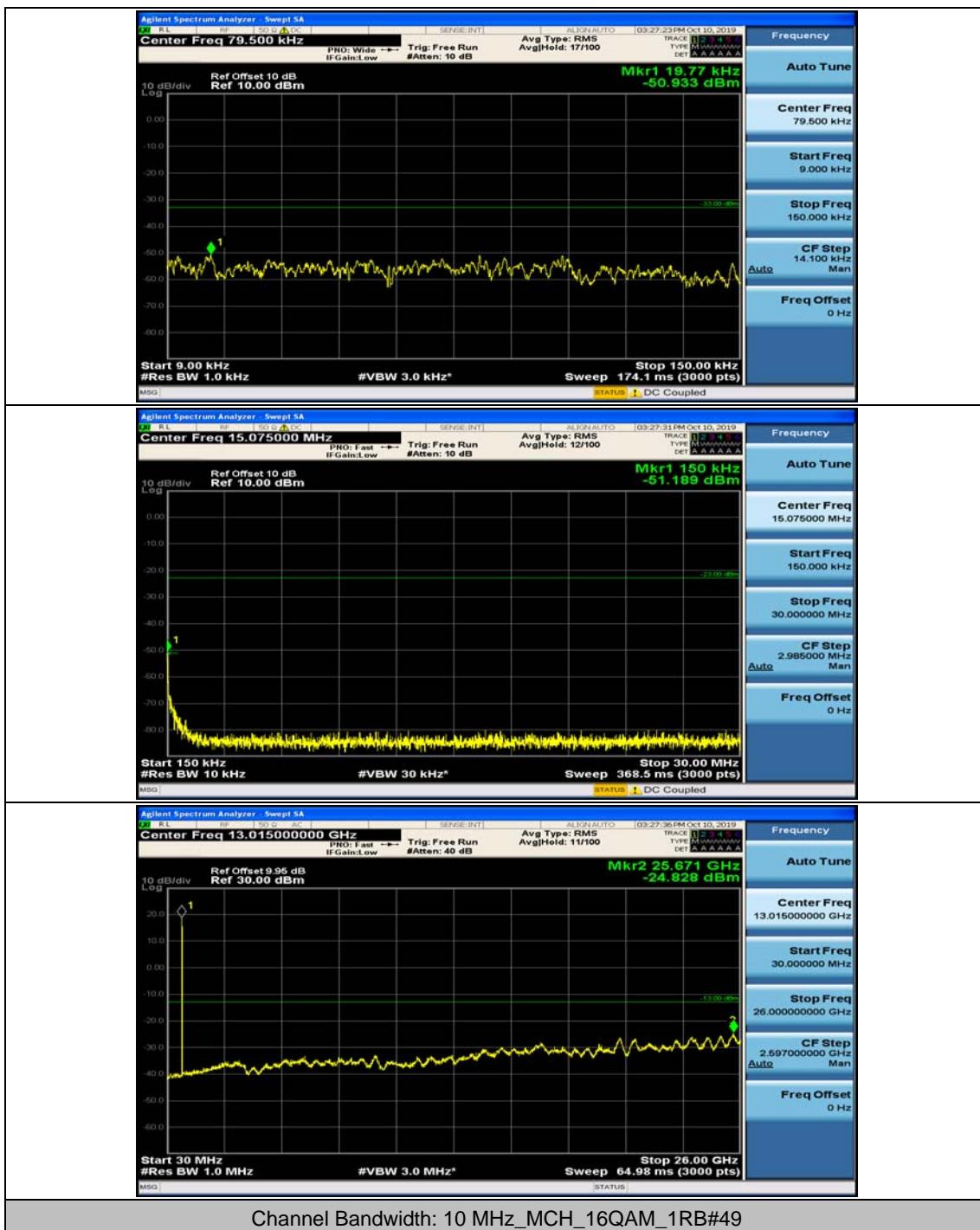


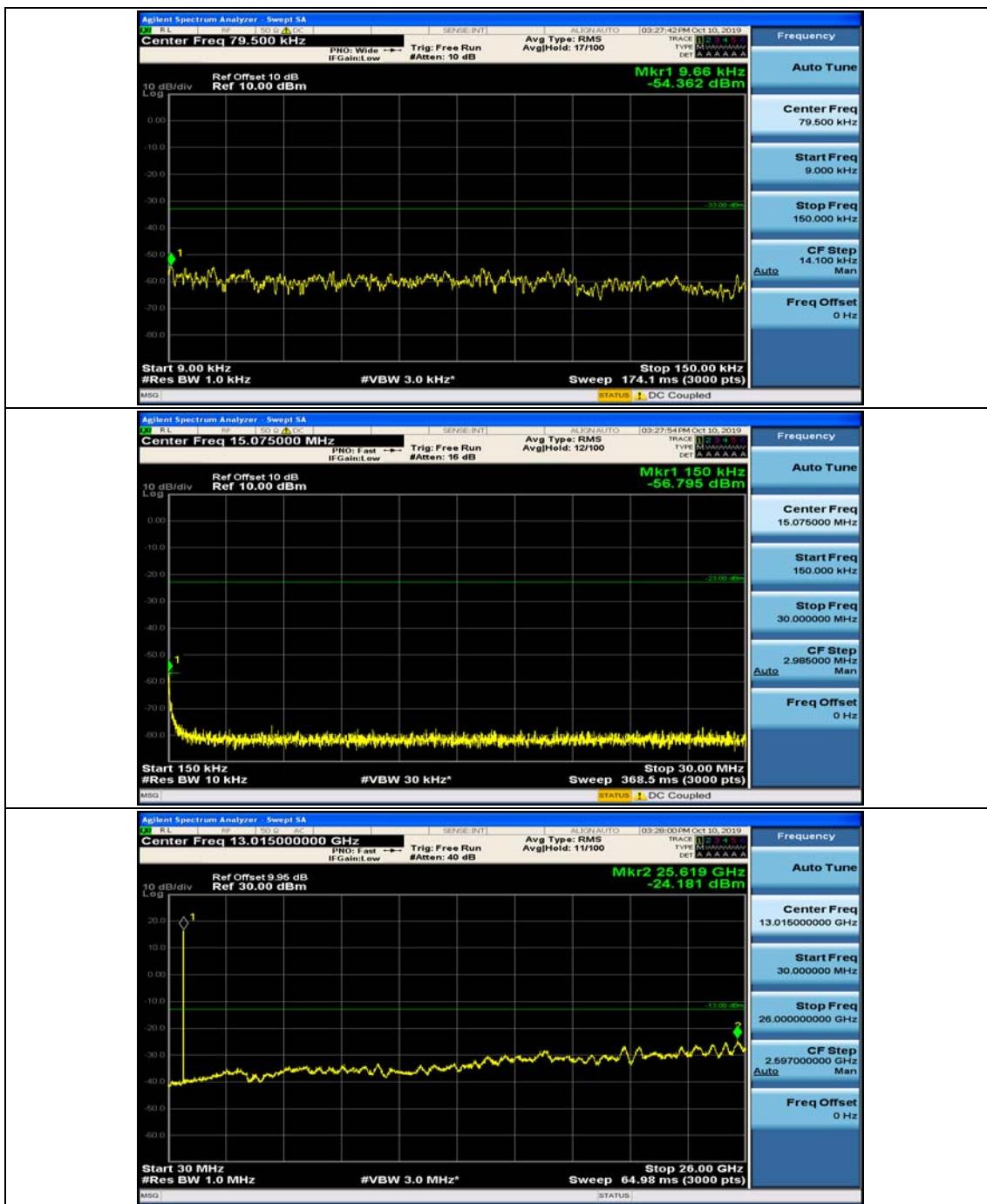


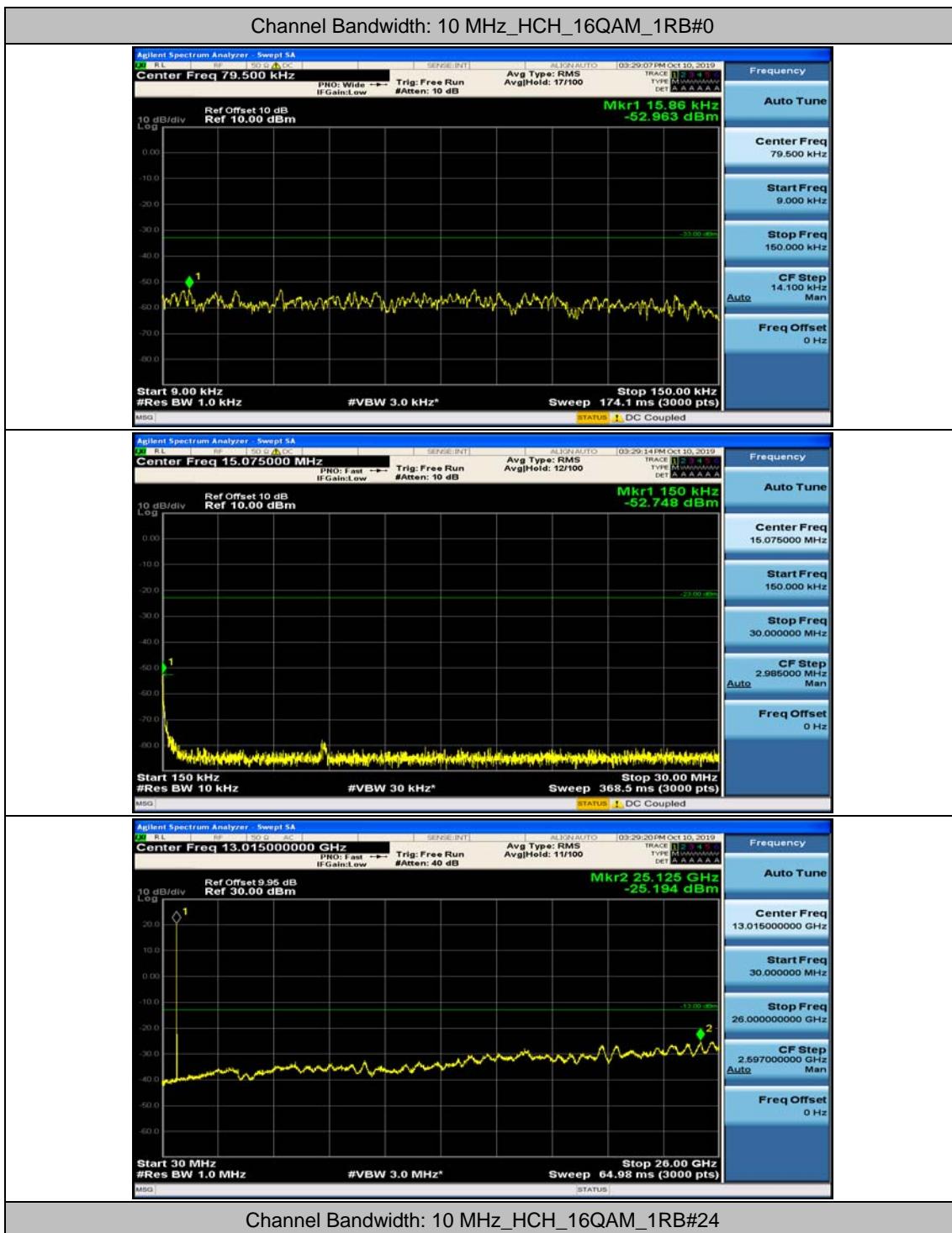


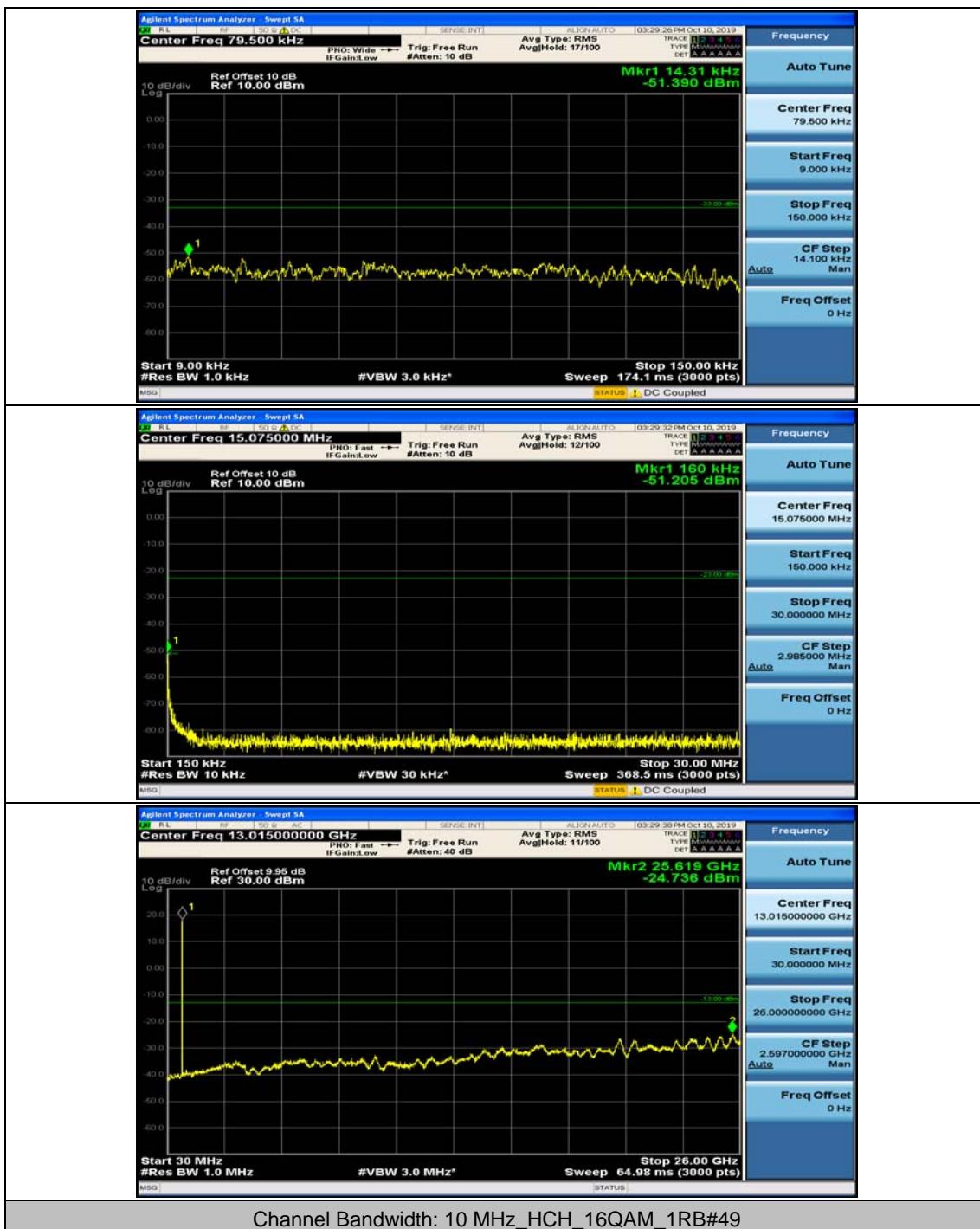


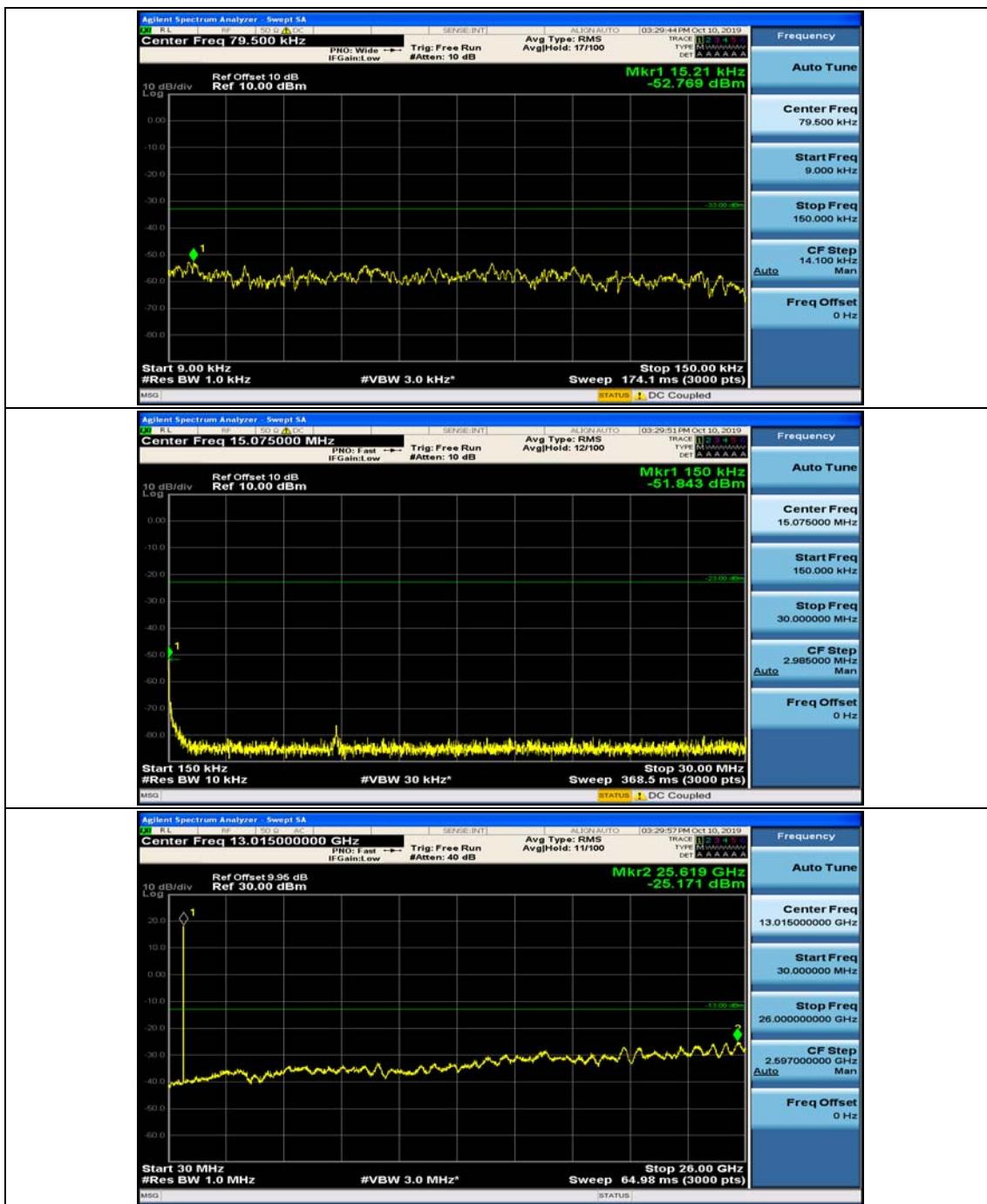












## Appendix F: Frequency Stability

### Test Result

#### Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	4.38	0.006200	± 2.5	PASS
		VN	TN	1.13	0.001599	± 2.5	PASS
		VH	TN	3.55	0.005025	± 2.5	PASS
	MCH	VL	TN	0.52	0.000732	± 2.5	PASS
		VN	TN	0.99	0.001394	± 2.5	PASS
		VH	TN	-1.35	-0.001901	± 2.5	PASS
	HCH	VL	TN	2.87	0.004022	± 2.5	PASS
		VN	TN	0.21	0.000294	± 2.5	PASS
		VH	TN	-0.86	-0.001205	± 2.5	PASS
16QAM	LCH	VL	TN	-1.69	-0.002392	± 2.5	PASS
		VN	TN	-1.9	-0.002689	± 2.5	PASS
		VH	TN	0.61	0.000863	± 2.5	PASS
	MCH	VL	TN	1.62	0.002282	± 2.5	PASS
		VN	TN	1.19	0.001676	± 2.5	PASS
		VH	TN	3.99	0.005620	± 2.5	PASS
	HCH	VL	TN	-1.97	-0.002761	± 2.5	PASS
		VN	TN	4.22	0.005915	± 2.5	PASS
		VH	TN	-0.63	-0.000883	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.45	0.000637	± 2.5	PASS
		VN	-20	3.24	0.004586	± 2.5	PASS
		VN	-10	0.59	0.000835	± 2.5	PASS
		VN	0	-0.4	-0.000566	± 2.5	PASS
		VN	10	4.06	0.005747	± 2.5	PASS
		VN	20	3.89	0.005506	± 2.5	PASS
		VN	30	2.39	0.003383	± 2.5	PASS
		VN	40	4.74	0.006709	± 2.5	PASS
		VN	50	4.01	0.005676	± 2.5	PASS
	MCH	VN	-30	3.91	0.005507	± 2.5	PASS
	MCH	VN	-20	-1.42	-0.002000	± 2.5	PASS

	HCH	VN	-10	2.67	0.003761	$\pm 2.5$	PASS	
		VN	0	2.43	0.003423	$\pm 2.5$	PASS	
		VN	10	-1.54	-0.002169	$\pm 2.5$	PASS	
		VN	20	-0.17	-0.000239	$\pm 2.5$	PASS	
		VN	30	3.74	0.005268	$\pm 2.5$	PASS	
		VN	40	0.67	0.000944	$\pm 2.5$	PASS	
		VN	50	-0.31	-0.000437	$\pm 2.5$	PASS	
		VN	-30	4.04	0.005662	$\pm 2.5$	PASS	
		VN	-20	3.22	0.004513	$\pm 2.5$	PASS	
		VN	-10	1.36	0.001906	$\pm 2.5$	PASS	
		VN	0	3.1	0.004345	$\pm 2.5$	PASS	
		VN	10	-1.23	-0.001724	$\pm 2.5$	PASS	
		VN	20	-1.02	-0.001430	$\pm 2.5$	PASS	
		VN	30	3.37	0.004723	$\pm 2.5$	PASS	
	LCH	VN	40	1.05	0.001472	$\pm 2.5$	PASS	
		VN	50	2.59	0.003630	$\pm 2.5$	PASS	
16QAM		VN	-30	4.05	0.005732	$\pm 2.5$	PASS	
		VN	-20	-1.4	-0.001982	$\pm 2.5$	PASS	
		VN	-10	1.47	0.002081	$\pm 2.5$	PASS	
		VN	0	-1.55	-0.002194	$\pm 2.5$	PASS	
		VN	10	1.78	0.002519	$\pm 2.5$	PASS	
		VN	20	3.55	0.005025	$\pm 2.5$	PASS	
		VN	30	1.36	0.001925	$\pm 2.5$	PASS	
		VN	40	-1.92	-0.002718	$\pm 2.5$	PASS	
		VN	50	1.3	0.001840	$\pm 2.5$	PASS	
MCH	VN	-30	4.98	0.006980	$\pm 2.5$	PASS		
	VN	-20	2.87	0.004022	$\pm 2.5$	PASS		
	VN	-10	0.59	0.000827	$\pm 2.5$	PASS		
	VN	0	4.47	0.006265	$\pm 2.5$	PASS		
	VN	10	-1.3	-0.001822	$\pm 2.5$	PASS		
	VN	20	-0.61	-0.000855	$\pm 2.5$	PASS		
	VN	30	0.09	0.000126	$\pm 2.5$	PASS		
	VN	40	2.63	0.003686	$\pm 2.5$	PASS		
	VN	50	-1.66	-0.002327	$\pm 2.5$	PASS		
HCH	VN	-30	4.98	0.006980	$\pm 2.5$	PASS		
	VN	-20	1.34	0.001878	$\pm 2.5$	PASS		
	VN	-10	-0.03	-0.000042	$\pm 2.5$	PASS		
	VN	0	0.65	0.000911	$\pm 2.5$	PASS		
	VN	10	3.09	0.004331	$\pm 2.5$	PASS		
	VN	20	-0.01	-0.000014	$\pm 2.5$	PASS		
	VN	30	1.29	0.001808	$\pm 2.5$	PASS		

		VN	40	0.49	0.000687	$\pm 2.5$	PASS
		VN	50	0.9	0.001261	$\pm 2.5$	PASS

## 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	-1.11	-0.001566	$\pm 2.5$	PASS
		VN	TN	4.69	0.006615	$\pm 2.5$	PASS
		VH	TN	-0.6	-0.000846	$\pm 2.5$	PASS
	MCH	VL	TN	2.69	0.003789	$\pm 2.5$	PASS
		VN	TN	2.29	0.003225	$\pm 2.5$	PASS
		VH	TN	2.84	0.004000	$\pm 2.5$	PASS
	HCH	VL	TN	4.51	0.006343	$\pm 2.5$	PASS
		VN	TN	-1.56	-0.002194	$\pm 2.5$	PASS
		VH	TN	2.29	0.003221	$\pm 2.5$	PASS
16QAM	LCH	VL	TN	4.92	0.006939	$\pm 2.5$	PASS
		VN	TN	2.39	0.003371	$\pm 2.5$	PASS
		VH	TN	-0.83	-0.001171	$\pm 2.5$	PASS
	MCH	VL	TN	1.14	0.001606	$\pm 2.5$	PASS
		VN	TN	0.35	0.000493	$\pm 2.5$	PASS
		VH	TN	0.51	0.000718	$\pm 2.5$	PASS
	HCH	VL	TN	2.69	0.003783	$\pm 2.5$	PASS
		VN	TN	-1.21	-0.001702	$\pm 2.5$	PASS
		VH	TN	-1.49	-0.002096	$\pm 2.5$	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.04	0.004288	$\pm 2.5$	PASS
		VN	-20	3.34	0.004711	$\pm 2.5$	PASS
		VN	-10	0.25	0.000353	$\pm 2.5$	PASS
		VN	0	-1.96	-0.002764	$\pm 2.5$	PASS
		VN	10	2.02	0.002849	$\pm 2.5$	PASS
		VN	20	2.21	0.003117	$\pm 2.5$	PASS
		VN	30	-1.24	-0.001749	$\pm 2.5$	PASS
		VN	40	-1.82	-0.002567	$\pm 2.5$	PASS
		VN	50	2.94	0.004147	$\pm 2.5$	PASS
	MCH	VN	-30	2.32	0.003268	$\pm 2.5$	PASS
		VN	-20	-0.79	-0.001113	$\pm 2.5$	PASS
		VN	-10	-1.68	-0.002366	$\pm 2.5$	PASS

		VN	0	-0.47	-0.000662	$\pm 2.5$	PASS
		VN	10	-1.5	-0.002113	$\pm 2.5$	PASS
		VN	20	0.51	0.000718	$\pm 2.5$	PASS
		VN	30	0.82	0.001155	$\pm 2.5$	PASS
		VN	40	1.79	0.002521	$\pm 2.5$	PASS
		VN	50	2.93	0.004127	$\pm 2.5$	PASS
		VN	-30	2.17	0.003052	$\pm 2.5$	PASS
		VN	-20	-0.02	-0.000028	$\pm 2.5$	PASS
		VN	-10	-1.59	-0.002236	$\pm 2.5$	PASS
		VN	0	1.23	0.001730	$\pm 2.5$	PASS
	HCH	VN	10	-0.6	-0.000844	$\pm 2.5$	PASS
		VN	20	3.86	0.005429	$\pm 2.5$	PASS
		VN	30	0.41	0.000577	$\pm 2.5$	PASS
		VN	40	-1.59	-0.002236	$\pm 2.5$	PASS
		VN	50	3.52	0.004951	$\pm 2.5$	PASS
		VN	-30	2.15	0.003028	$\pm 2.5$	PASS
		VN	-20	4.15	0.005845	$\pm 2.5$	PASS
		VN	-10	-1.53	-0.002155	$\pm 2.5$	PASS
		VN	0	-1.51	-0.002127	$\pm 2.5$	PASS
		VN	10	0.46	0.000648	$\pm 2.5$	PASS
	LCH	VN	20	-0.32	-0.000451	$\pm 2.5$	PASS
		VN	30	0.49	0.000690	$\pm 2.5$	PASS
		VN	40	3.39	0.004775	$\pm 2.5$	PASS
		VN	50	-1.51	-0.002127	$\pm 2.5$	PASS
		VN	-30	-0.83	-0.001167	$\pm 2.5$	PASS
		VN	-20	1.22	0.001716	$\pm 2.5$	PASS
		VN	-10	-1.41	-0.001983	$\pm 2.5$	PASS
		VN	0	2.21	0.003108	$\pm 2.5$	PASS
		VN	10	4.51	0.006343	$\pm 2.5$	PASS
		VN	20	-0.52	-0.000731	$\pm 2.5$	PASS
	MCH	VN	30	4.12	0.005795	$\pm 2.5$	PASS
		VN	40	3.32	0.004669	$\pm 2.5$	PASS
		VN	50	-0.17	-0.000239	$\pm 2.5$	PASS
		VN	-30	-1.85	-0.002602	$\pm 2.5$	PASS
		VN	-20	4.51	0.006343	$\pm 2.5$	PASS
		VN	-10	4.16	0.005851	$\pm 2.5$	PASS
		VN	0	1.1	0.001547	$\pm 2.5$	PASS
		VN	10	4.28	0.006020	$\pm 2.5$	PASS
		VN	20	-1.43	-0.002011	$\pm 2.5$	PASS
		VN	30	-1.23	-0.001730	$\pm 2.5$	PASS
	HCH	VN	40	3.53	0.004965	$\pm 2.5$	PASS



Model: MDT540

		VN	50	-0.76	-0.001069	± 2.5	PASS
--	--	----	----	-------	-----------	-------	------