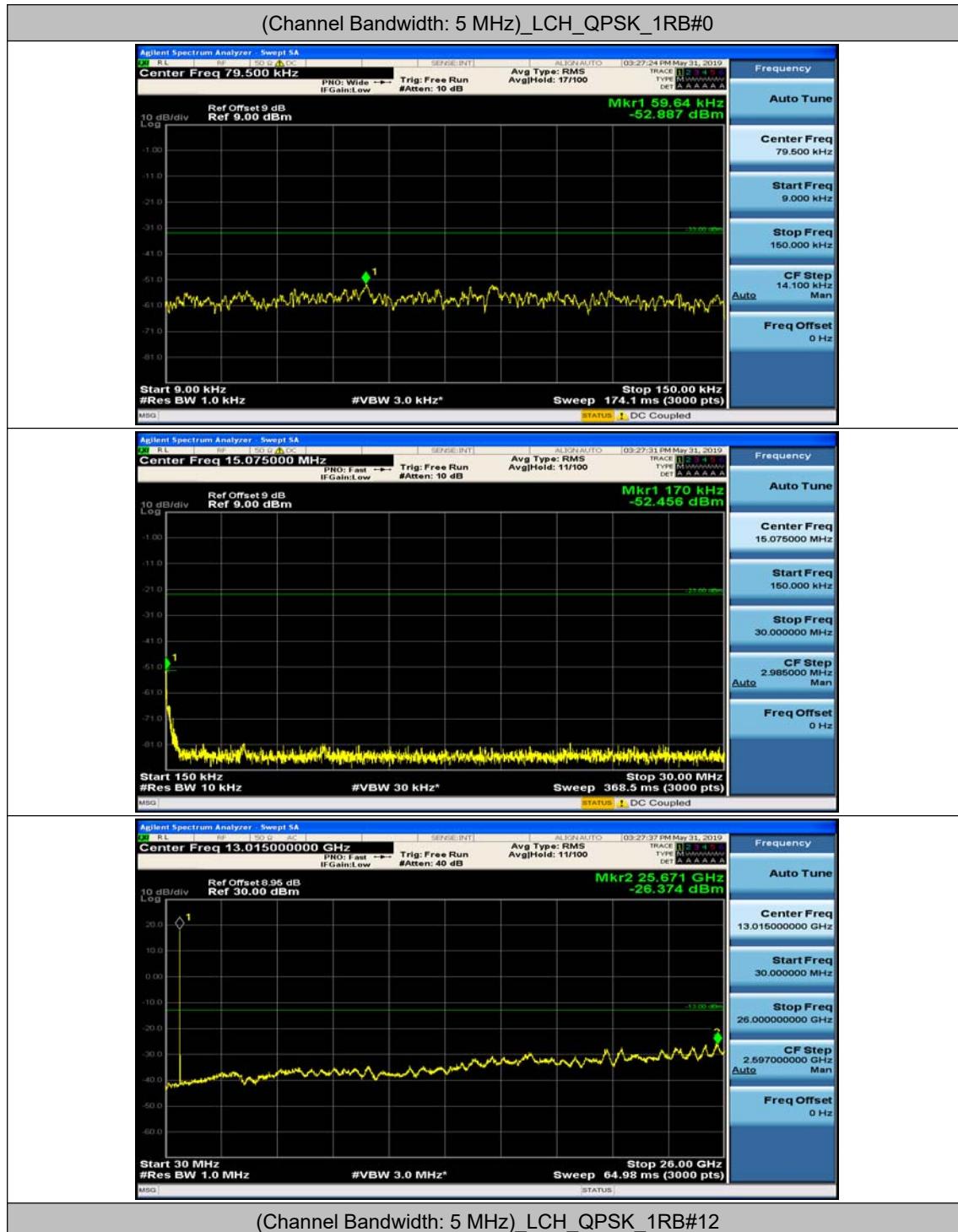
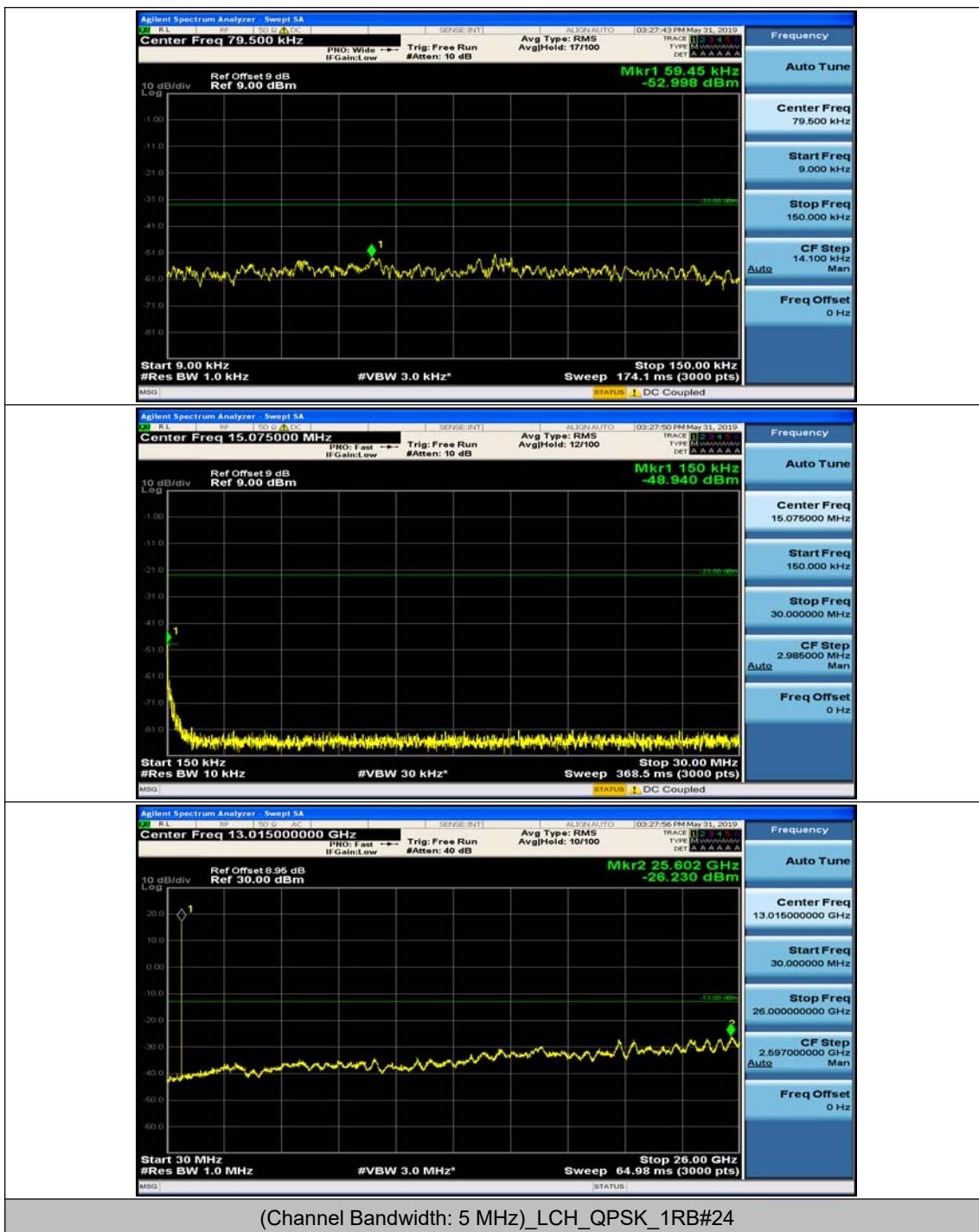


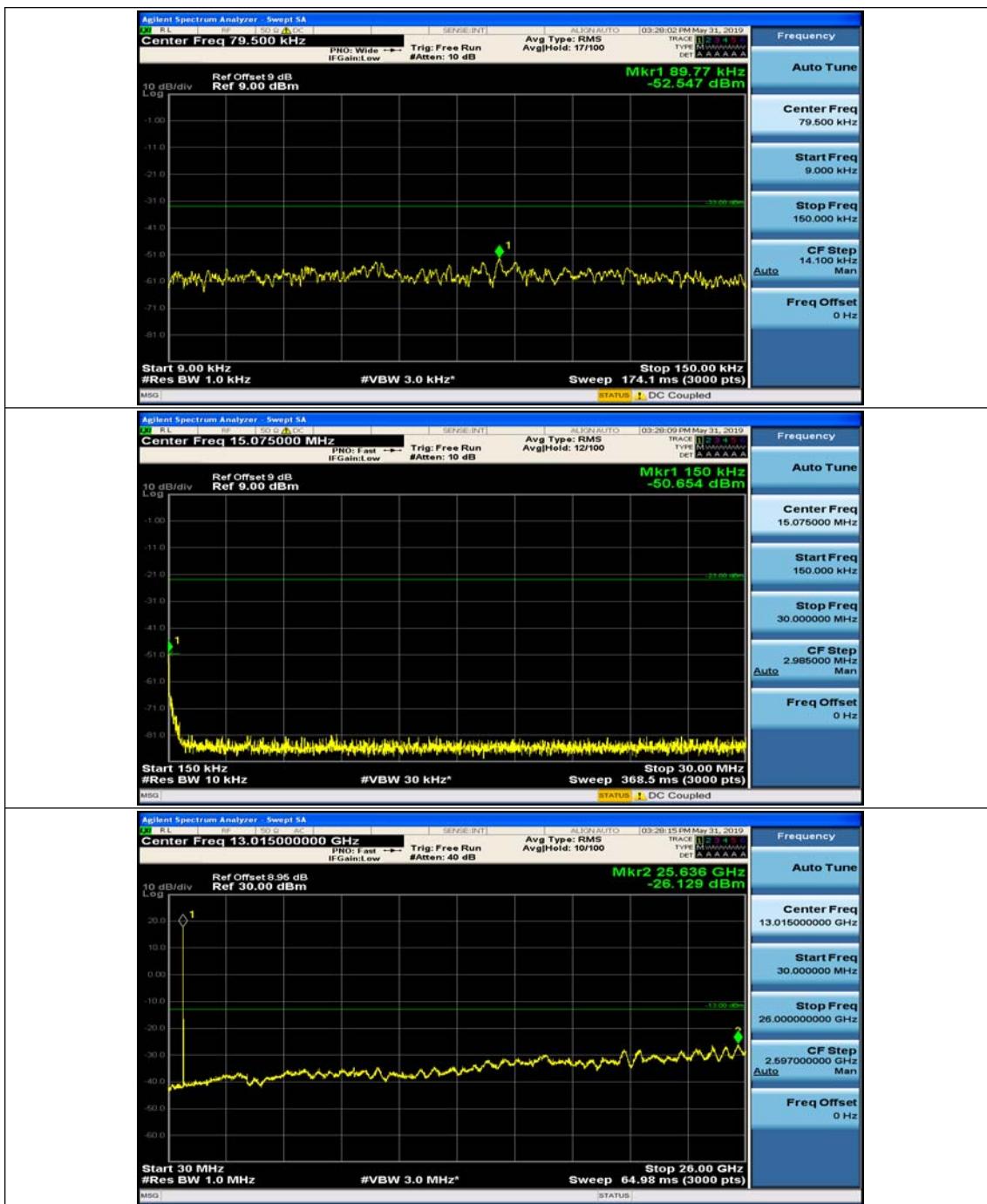
## Appendix E: Conducted Spurious Emission

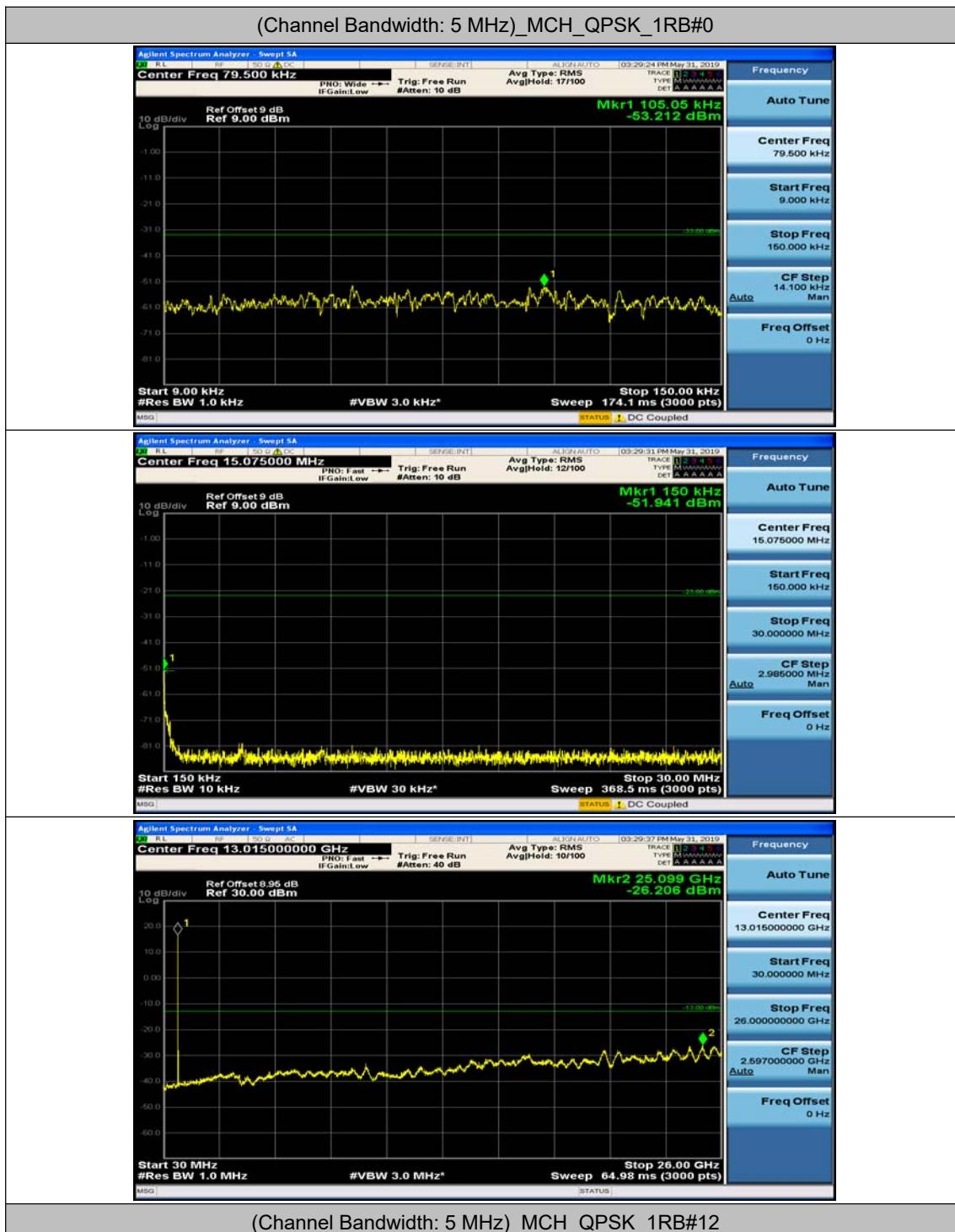
### Test Graphs

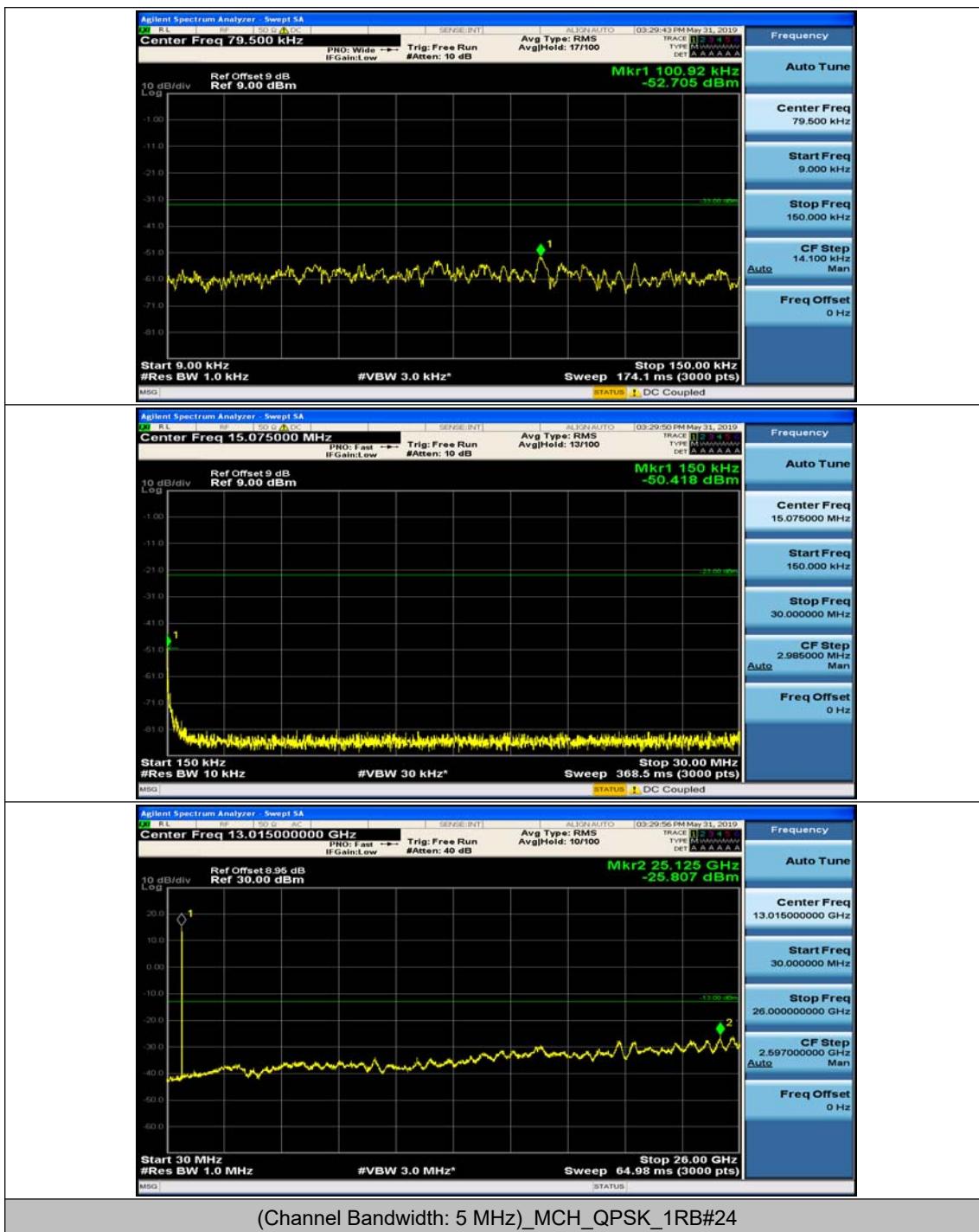
#### Channel Bandwidth: 5 MHz

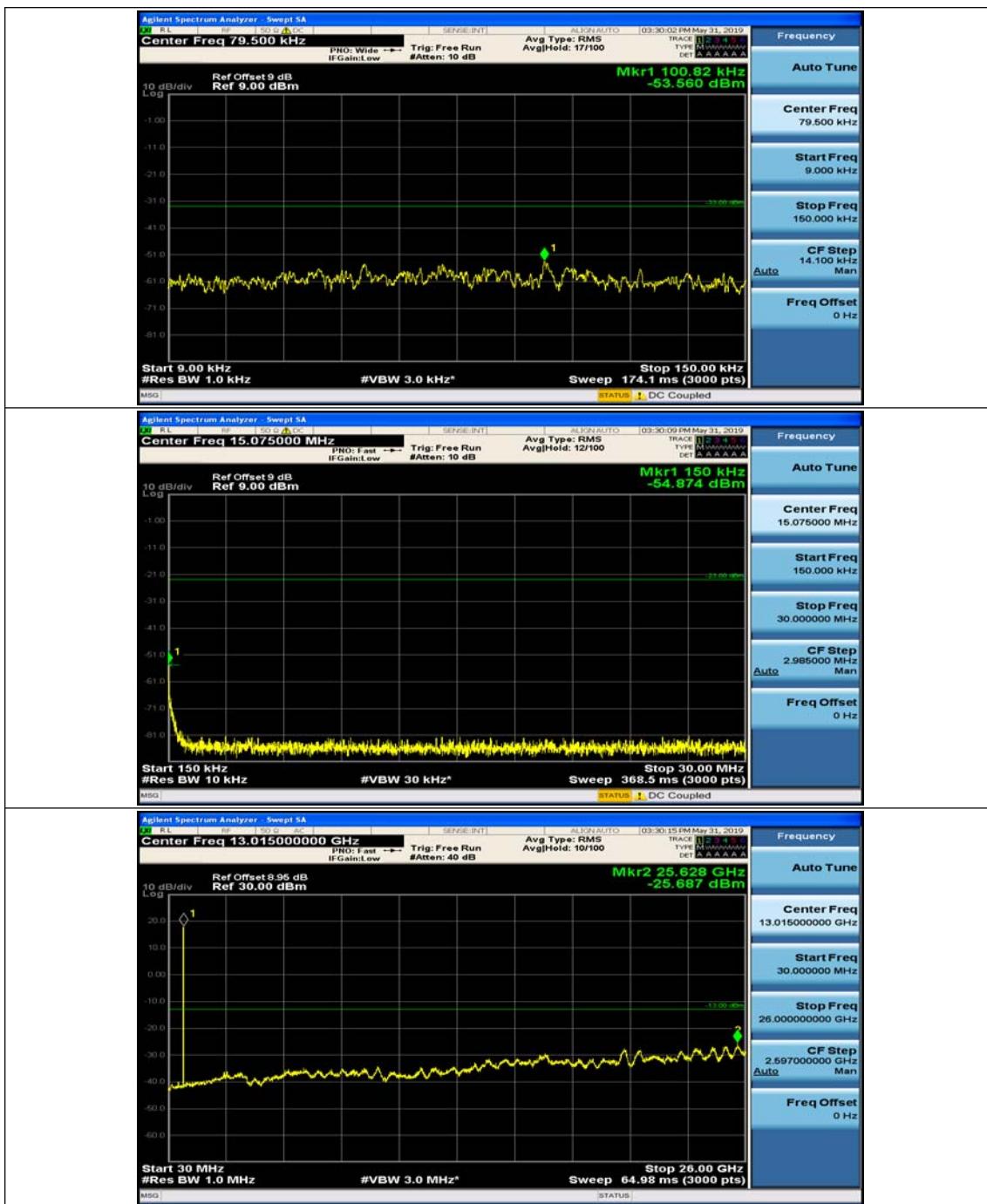


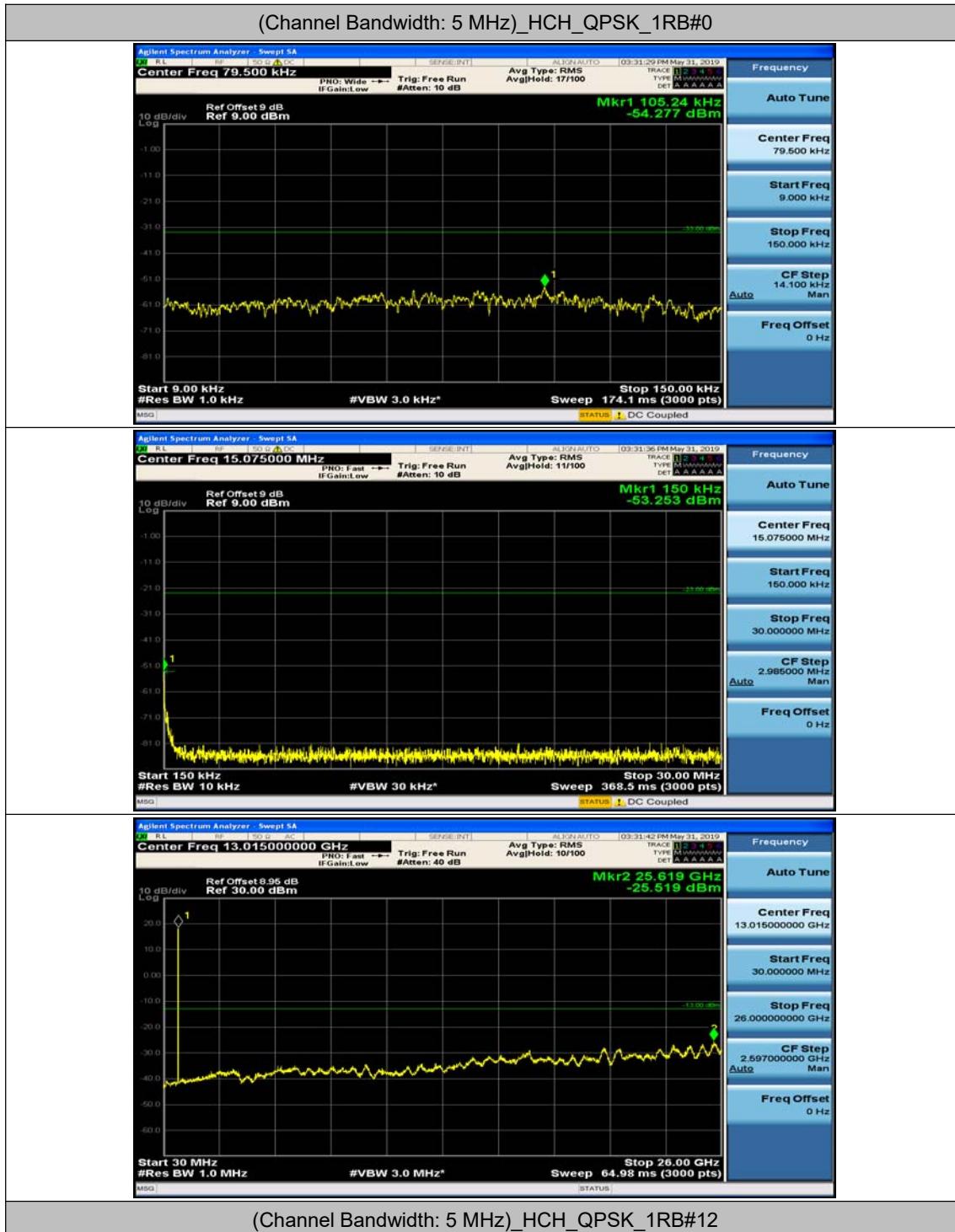




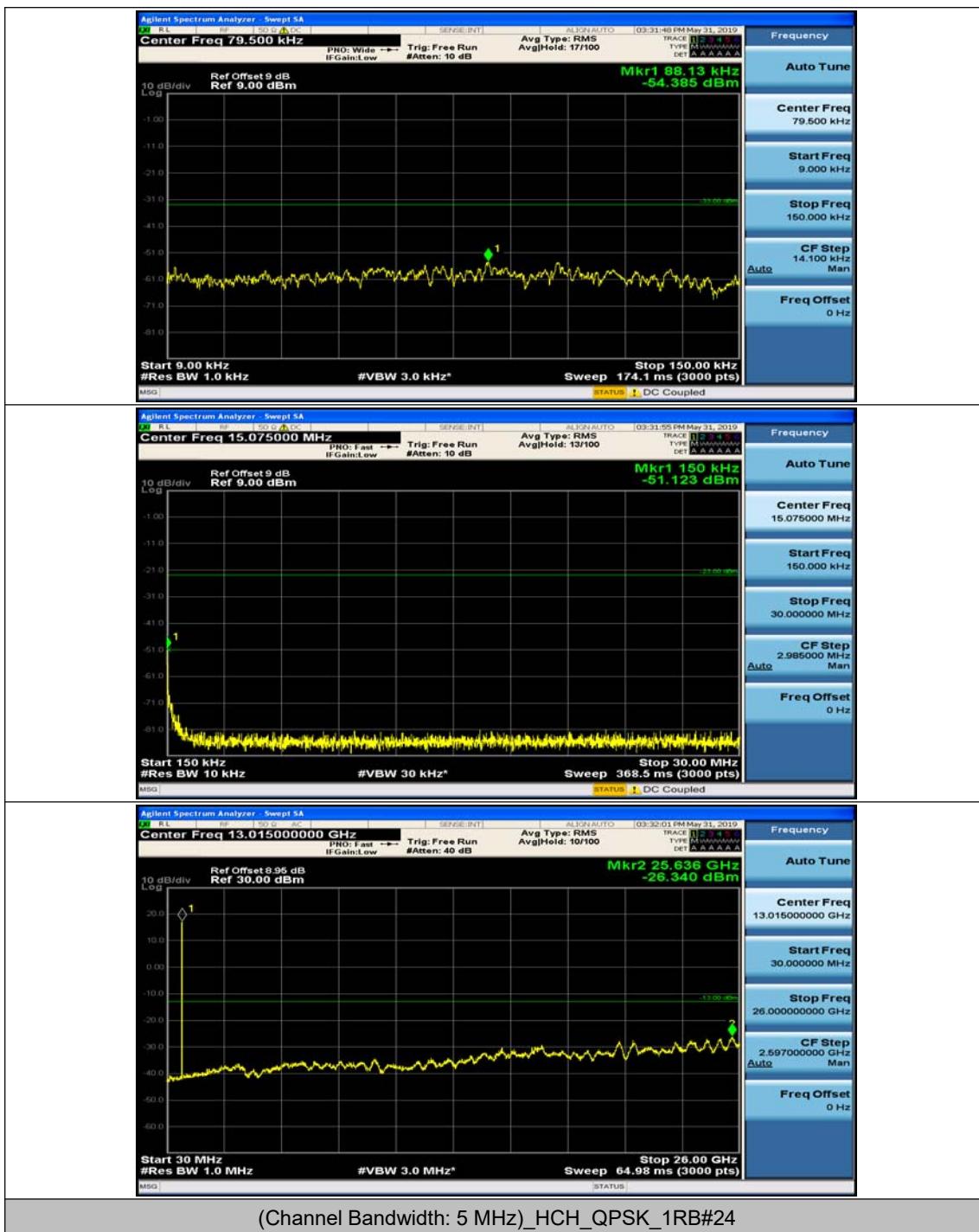


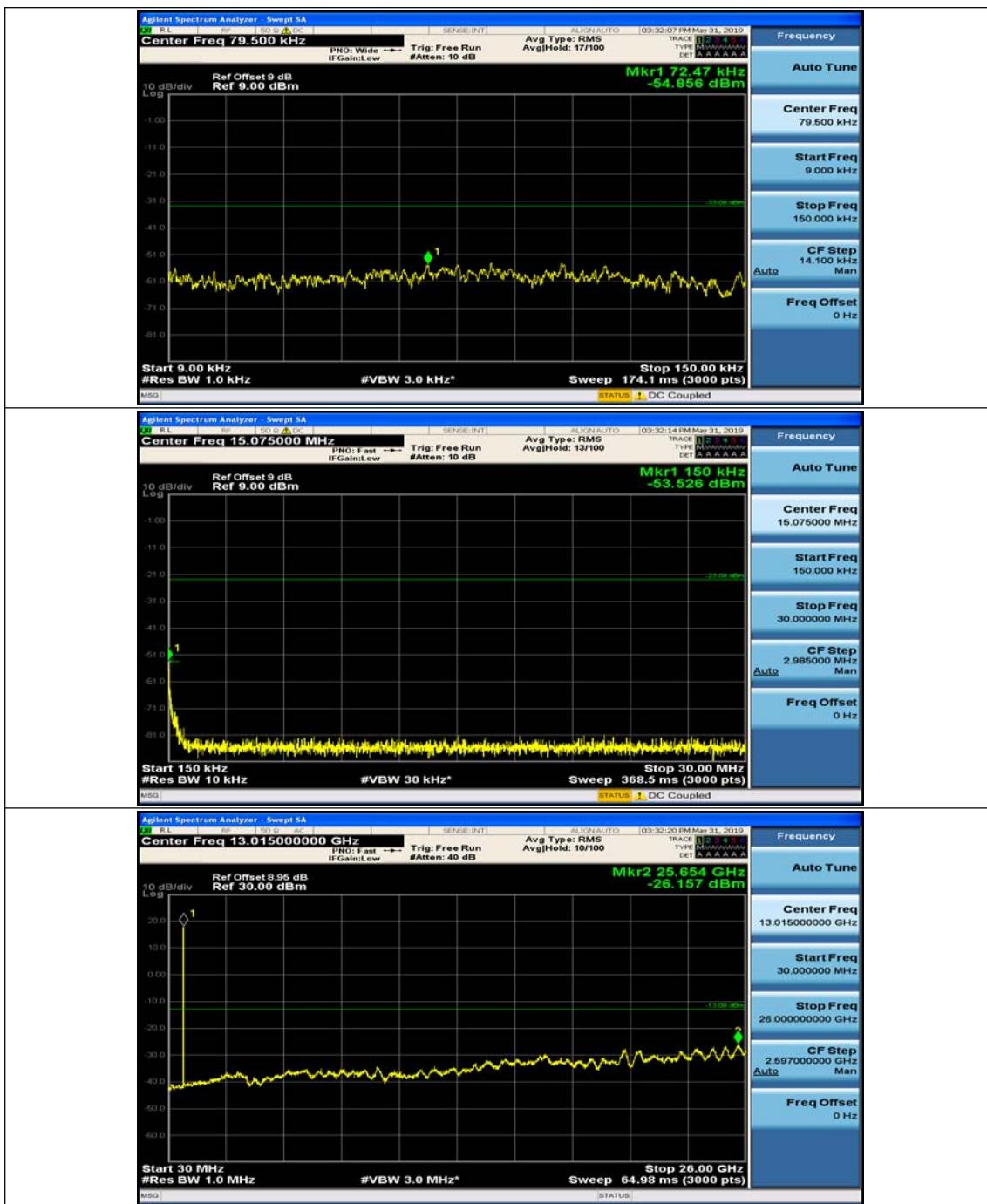


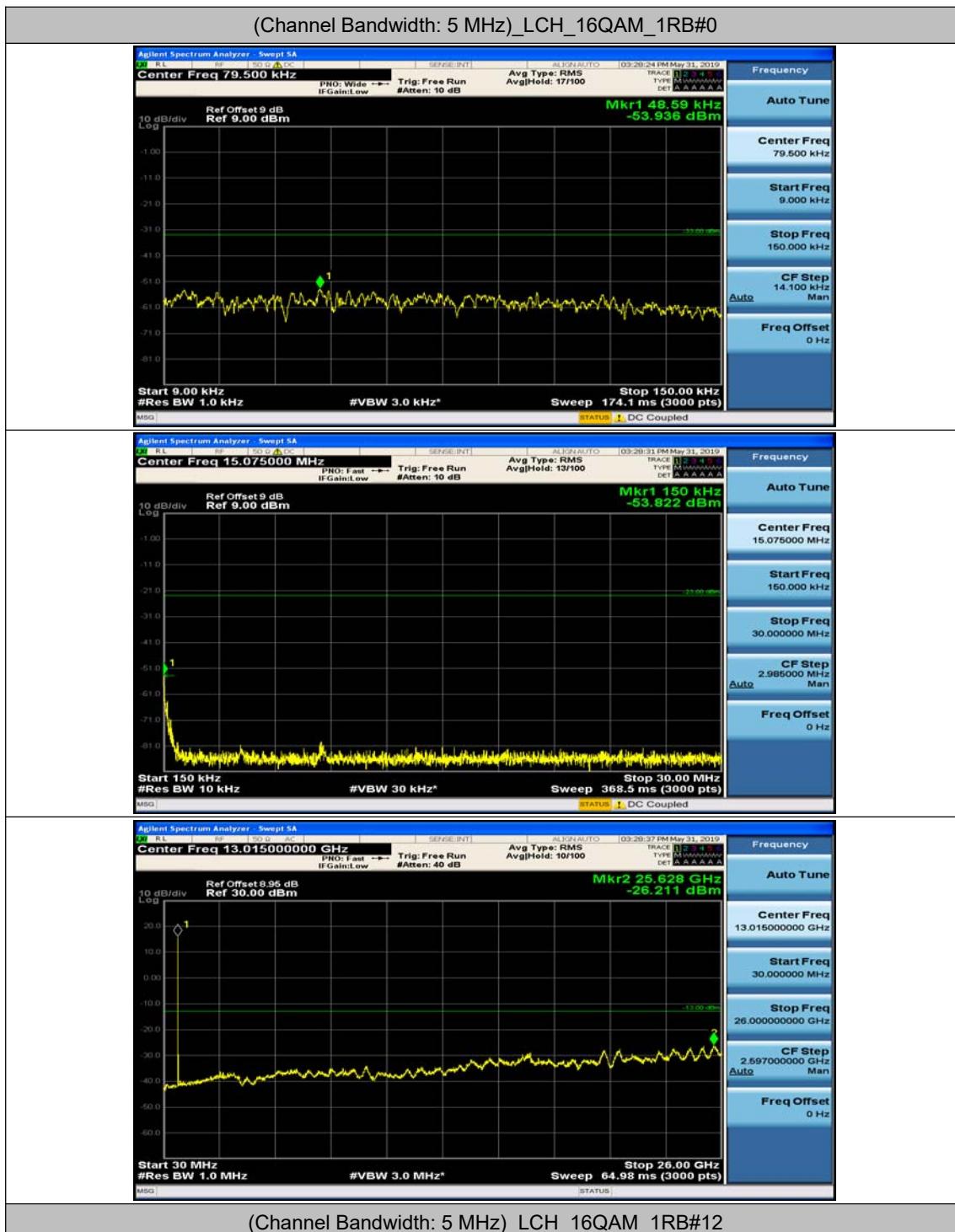


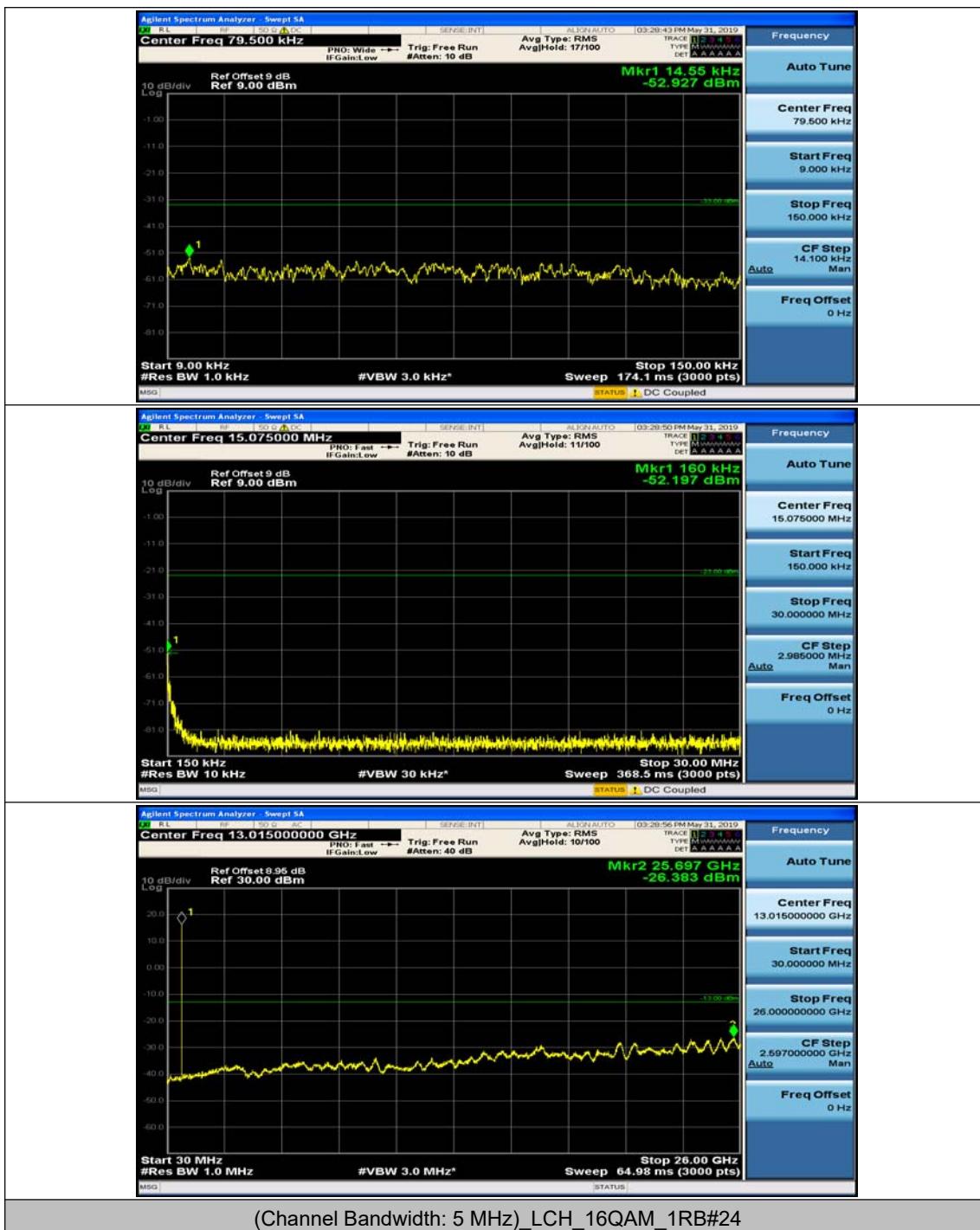


(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#12

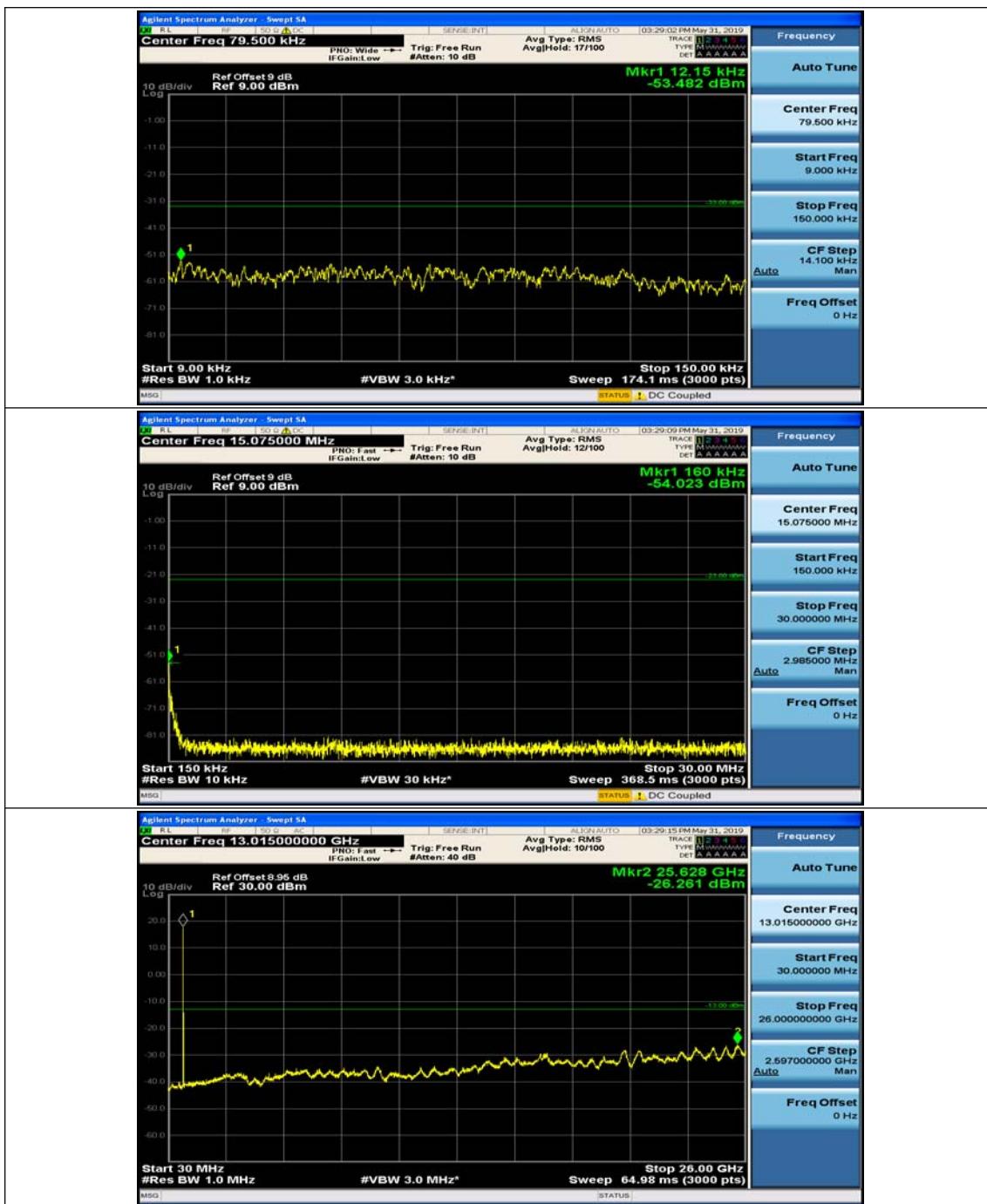


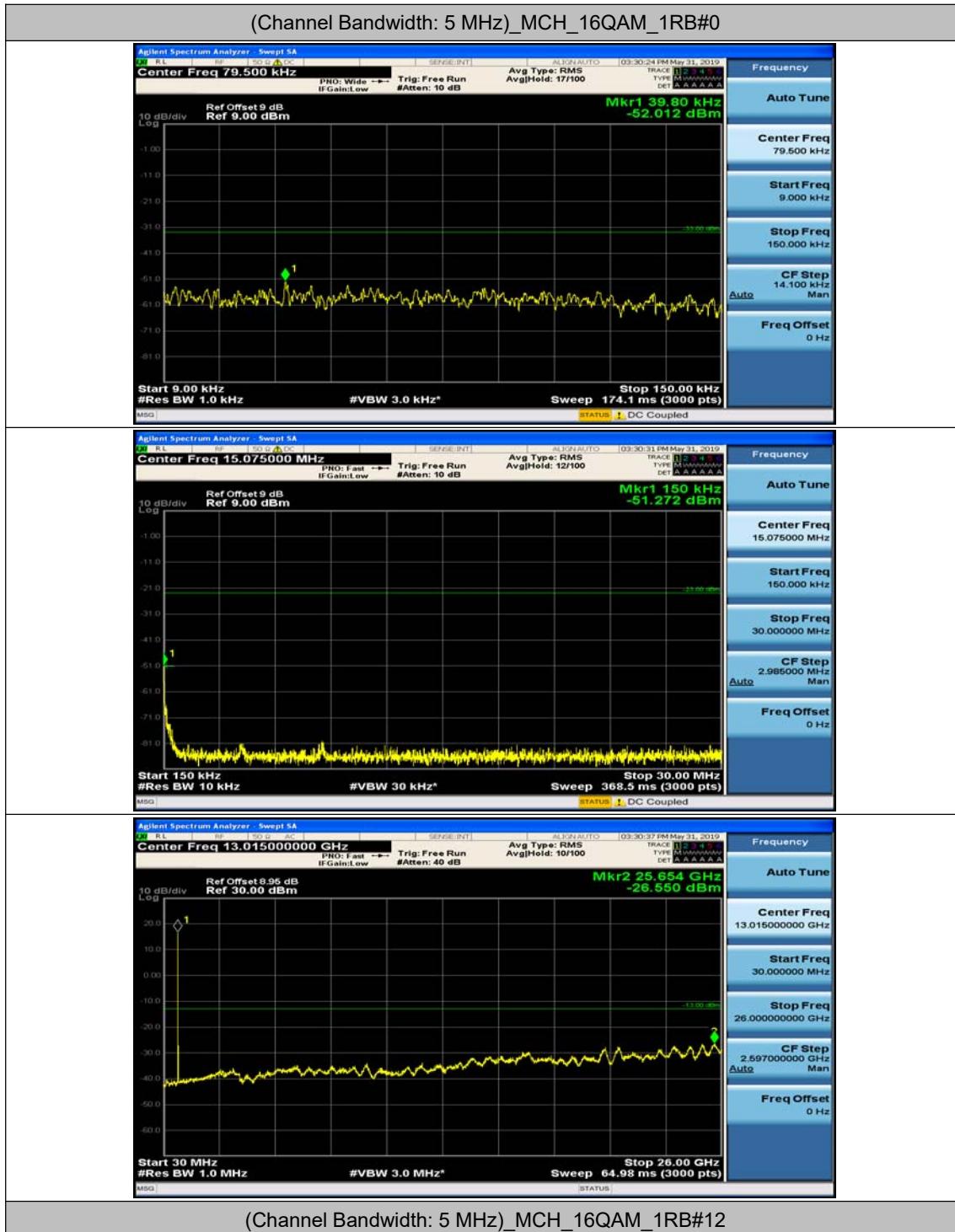


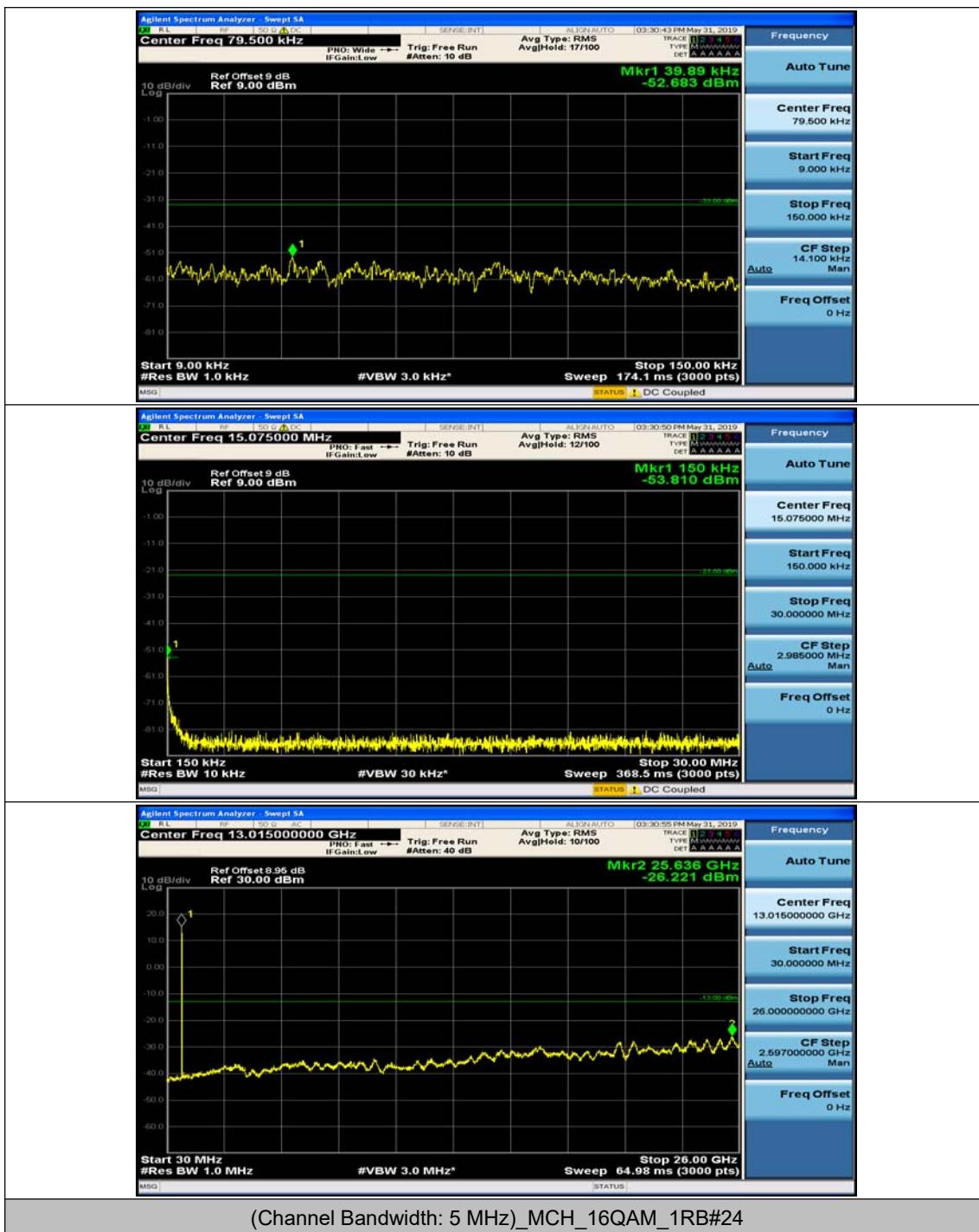


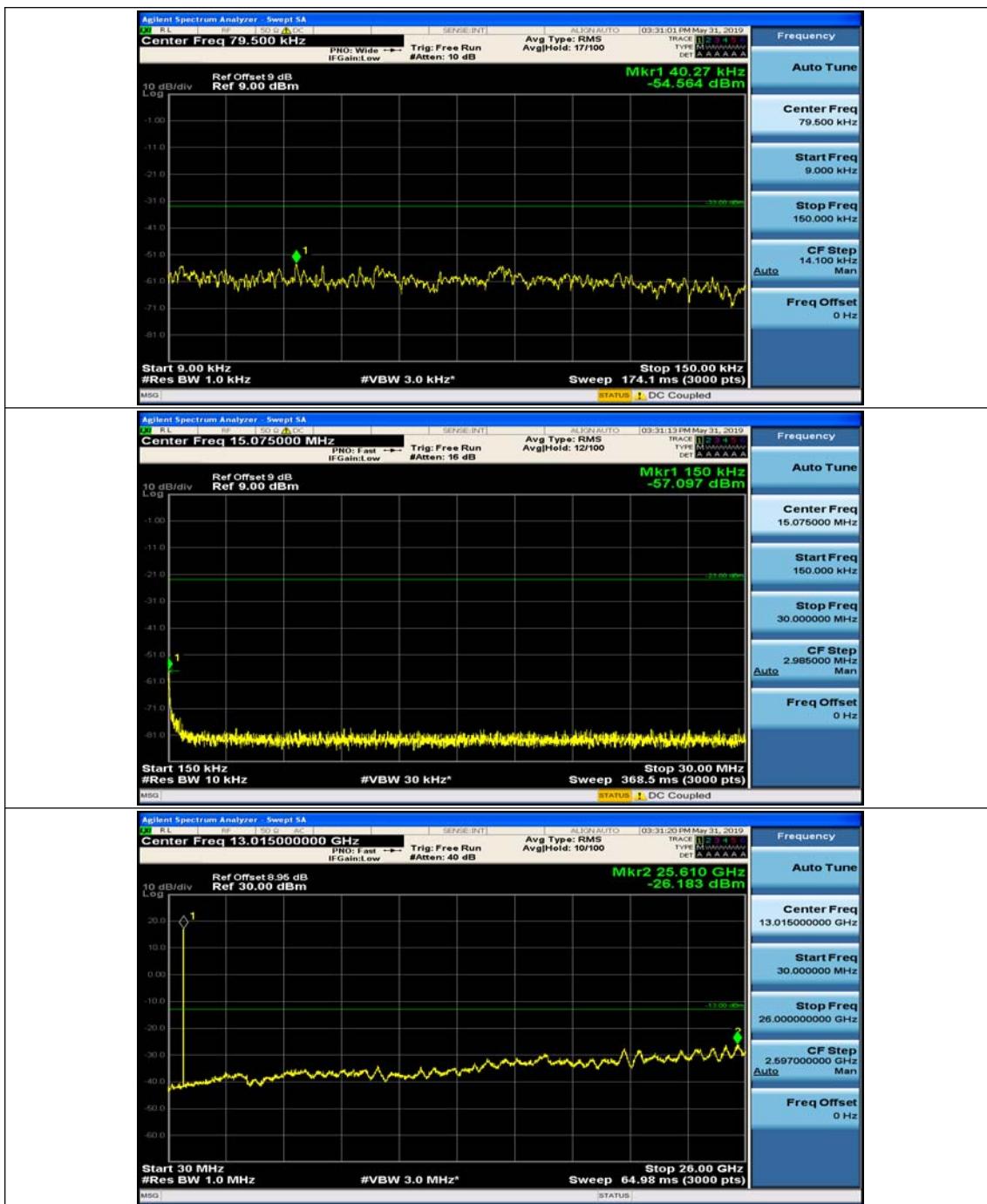


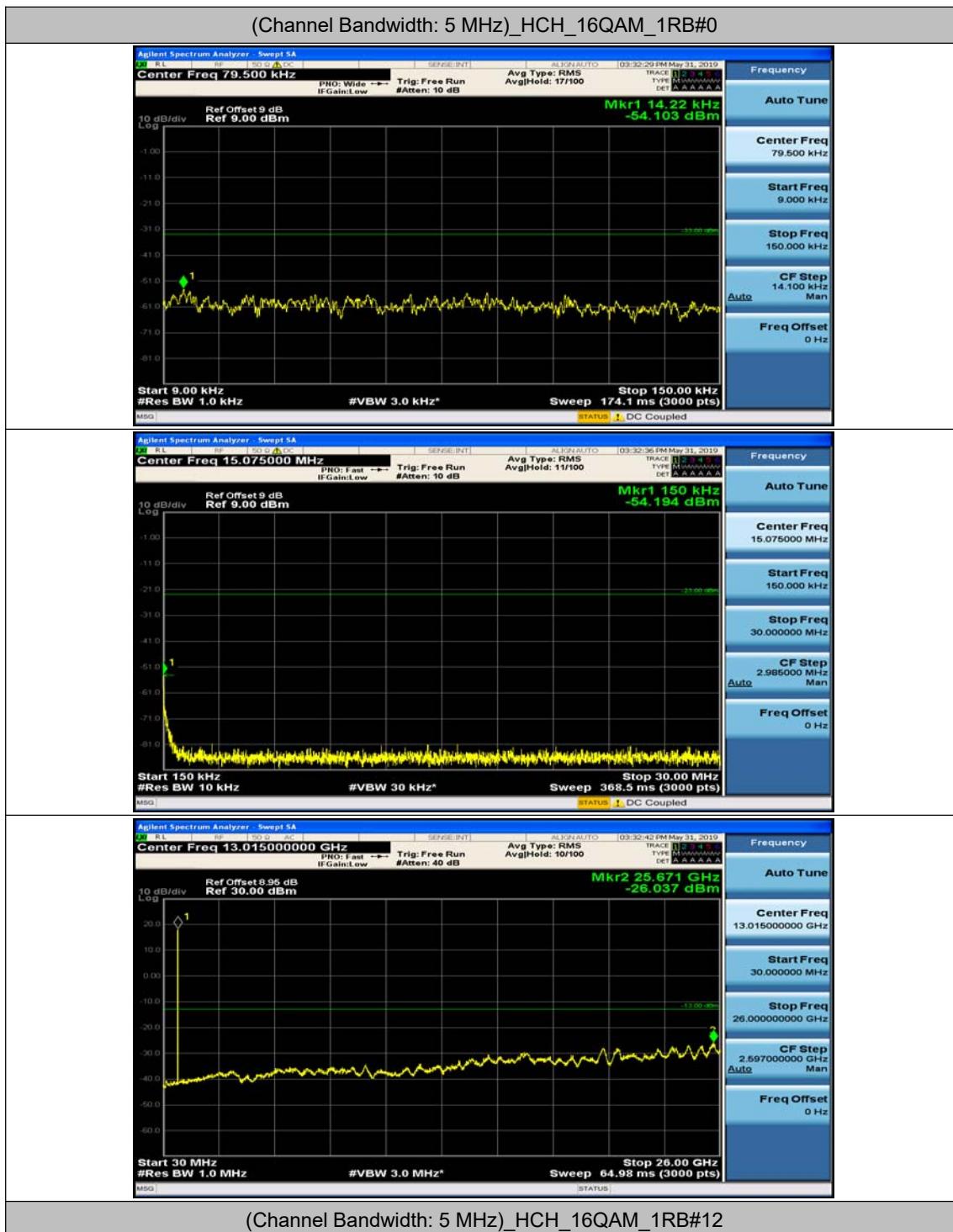
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#24

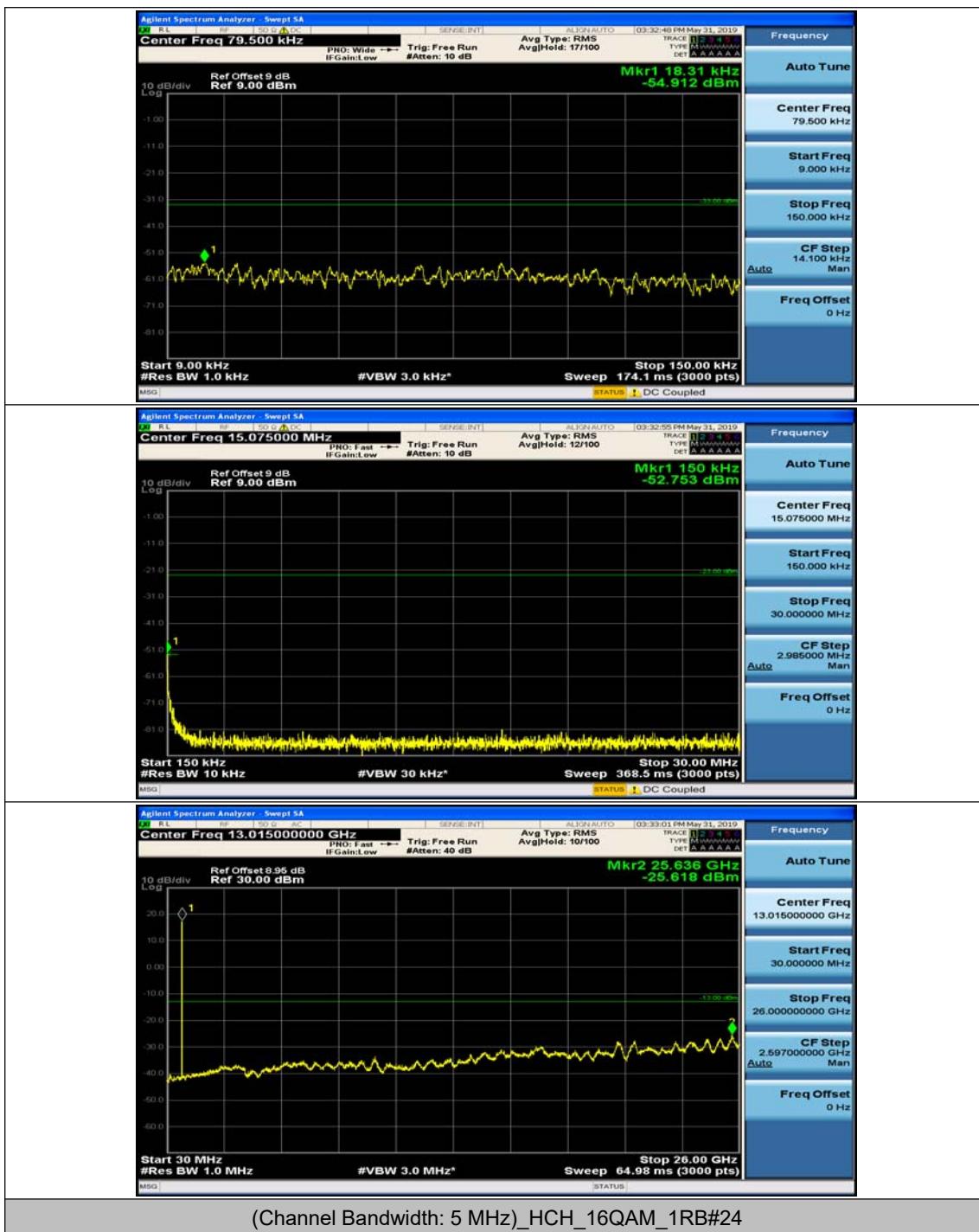


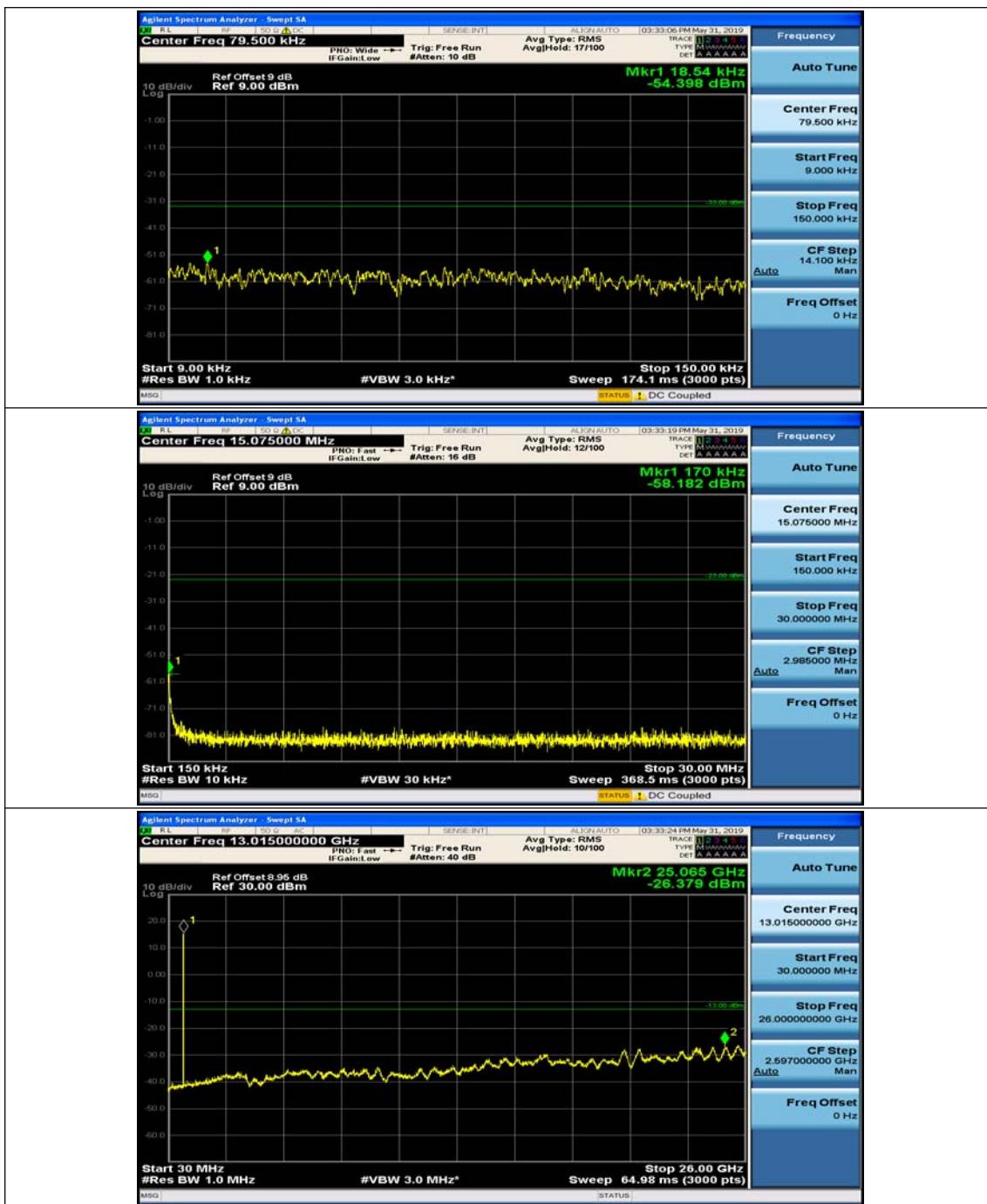




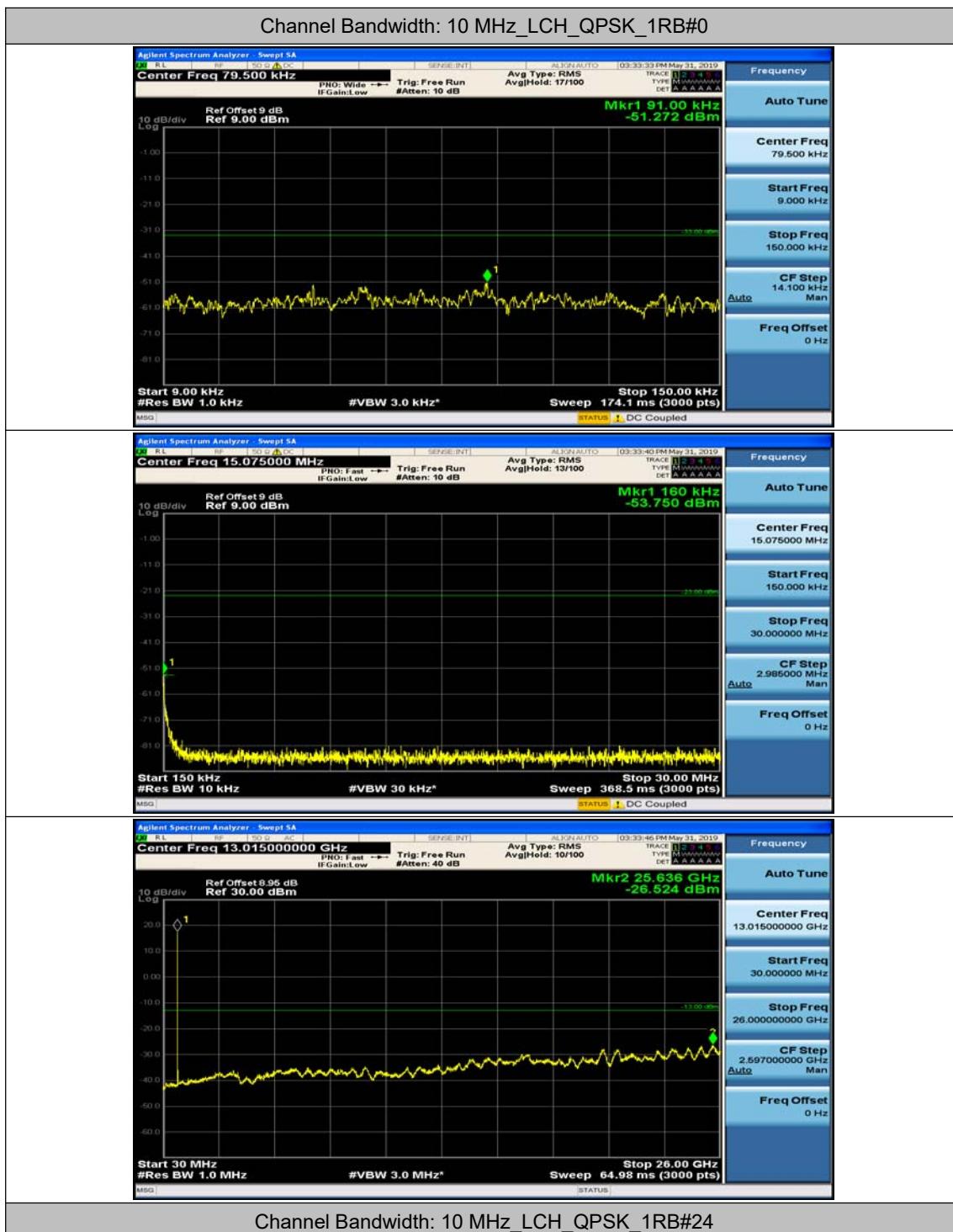


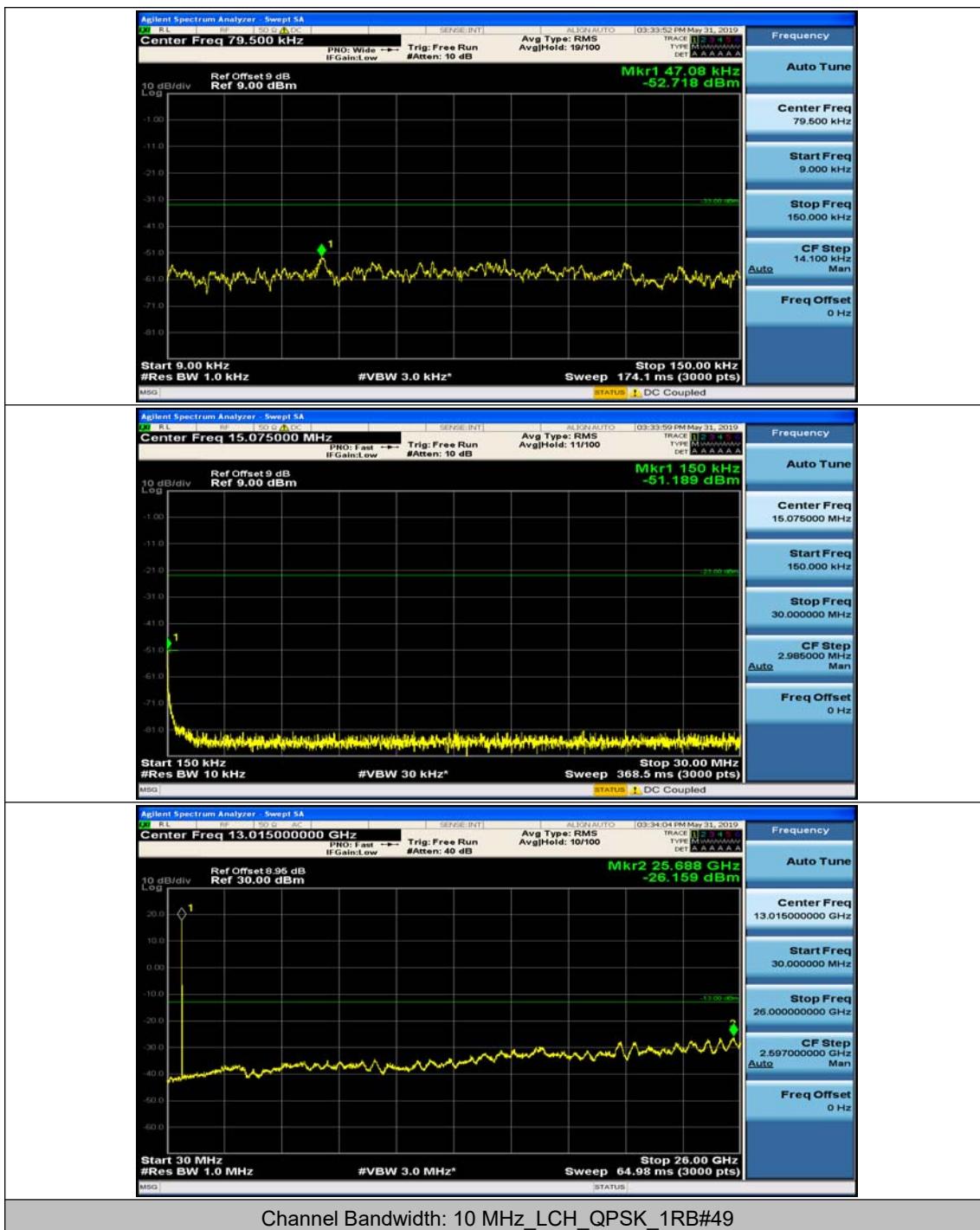


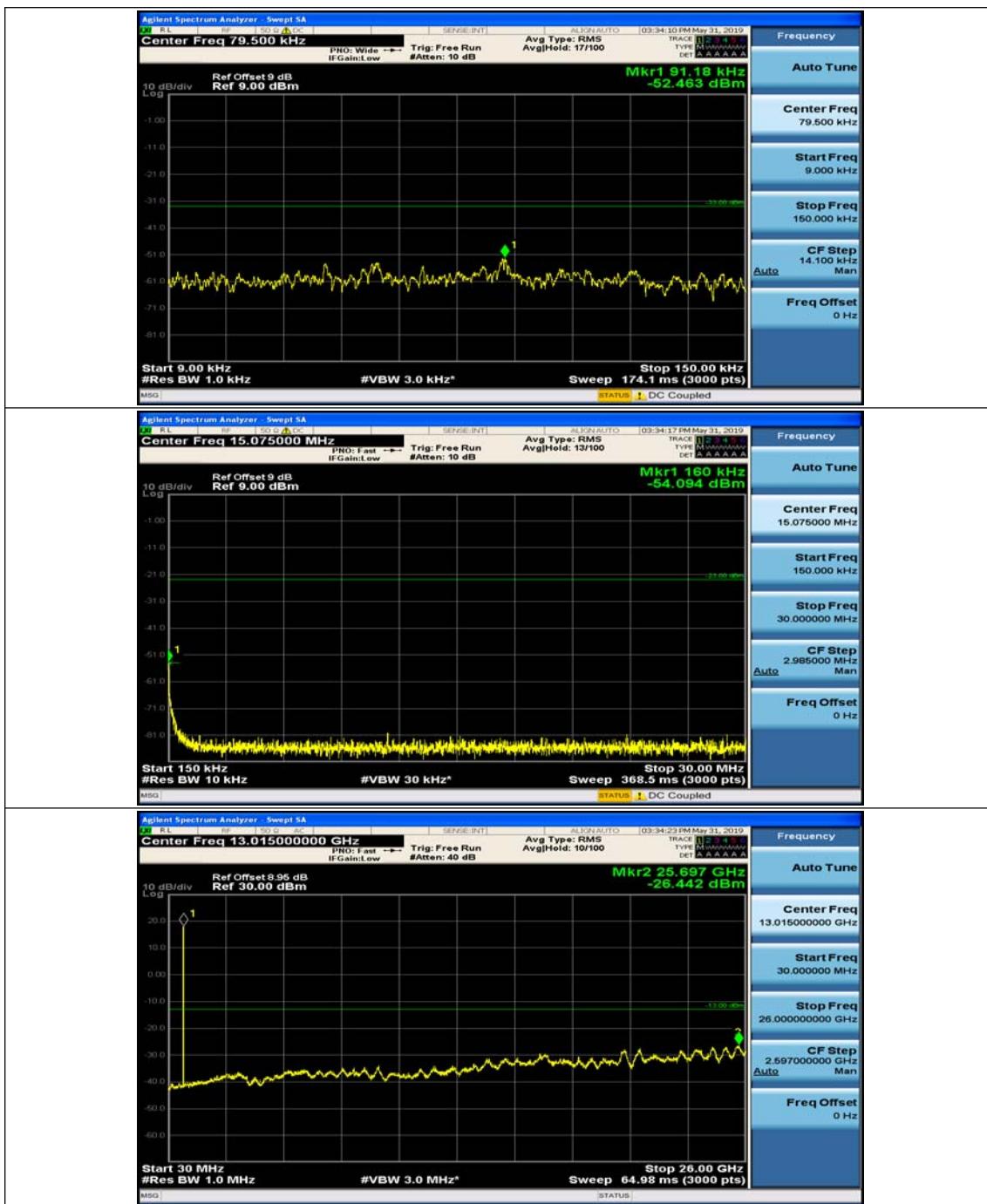


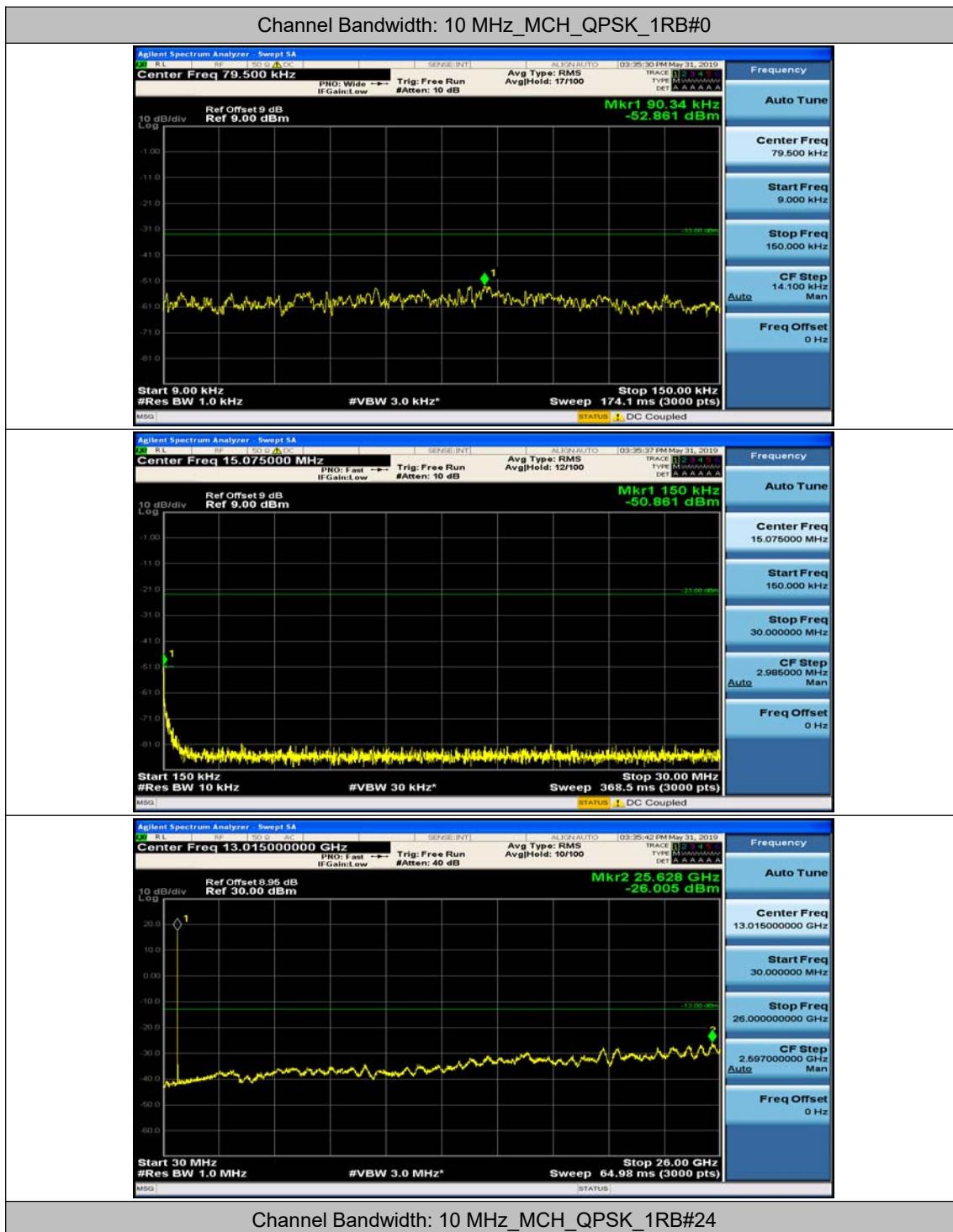


## Channel Bandwidth: 10 MHz

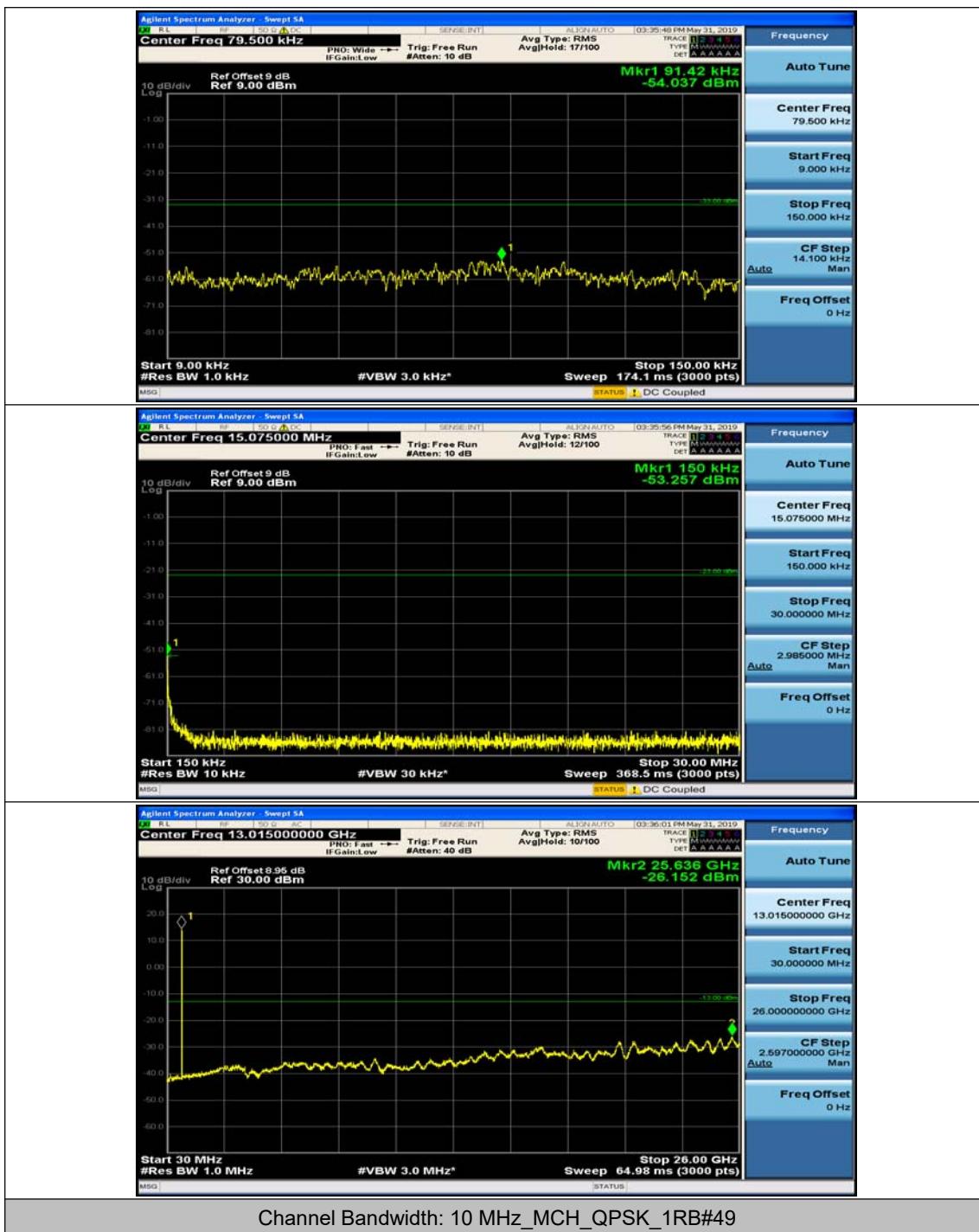


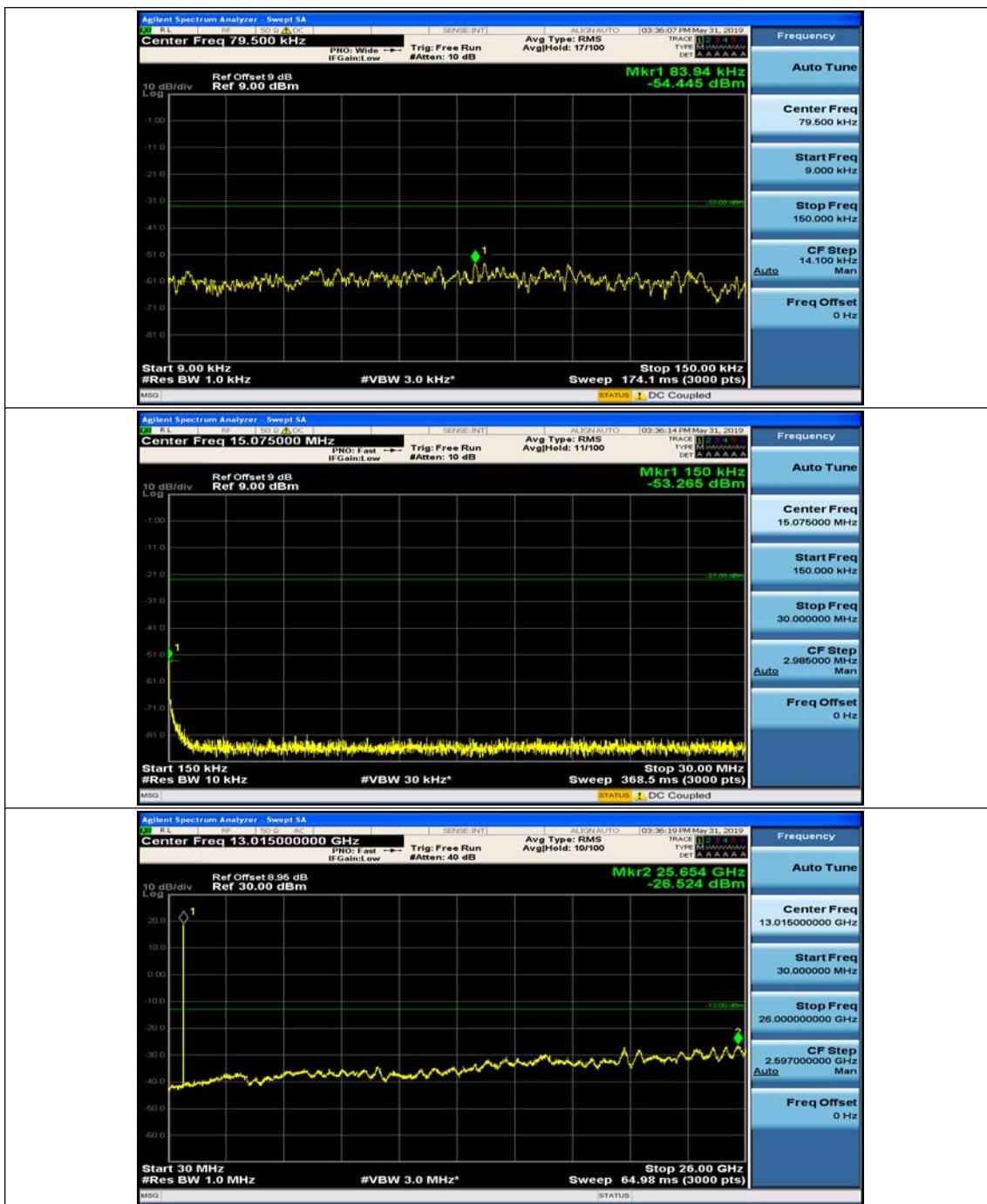


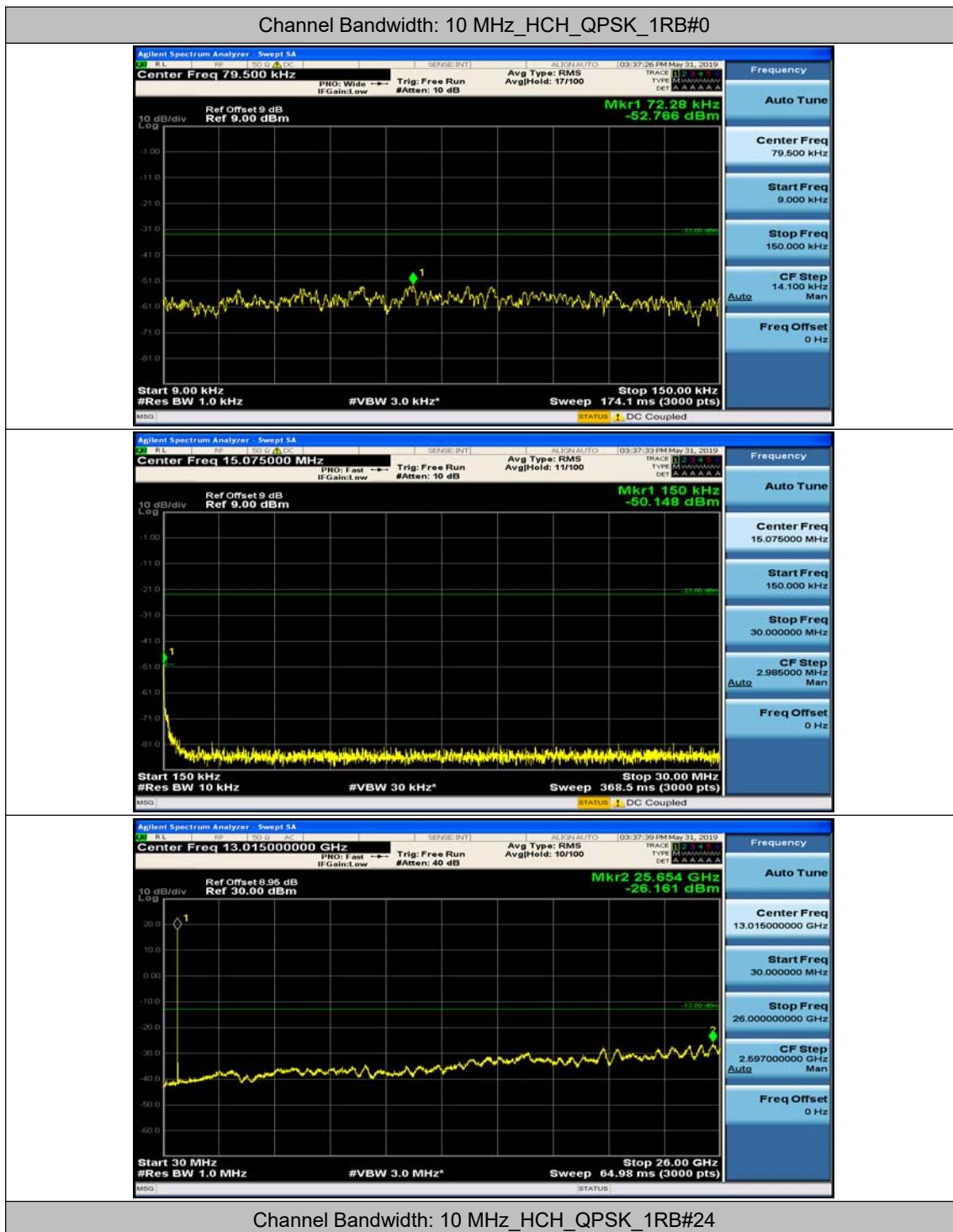


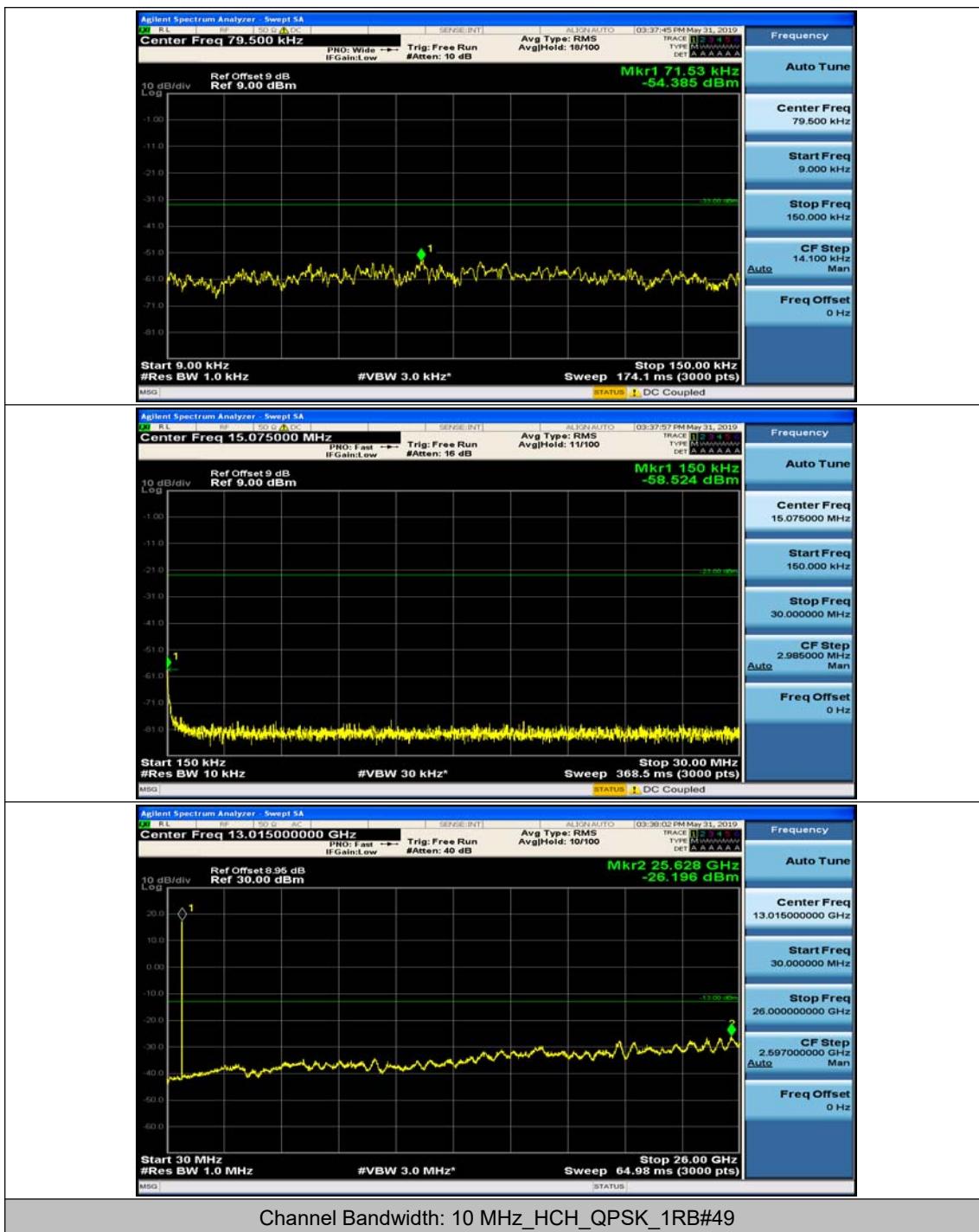


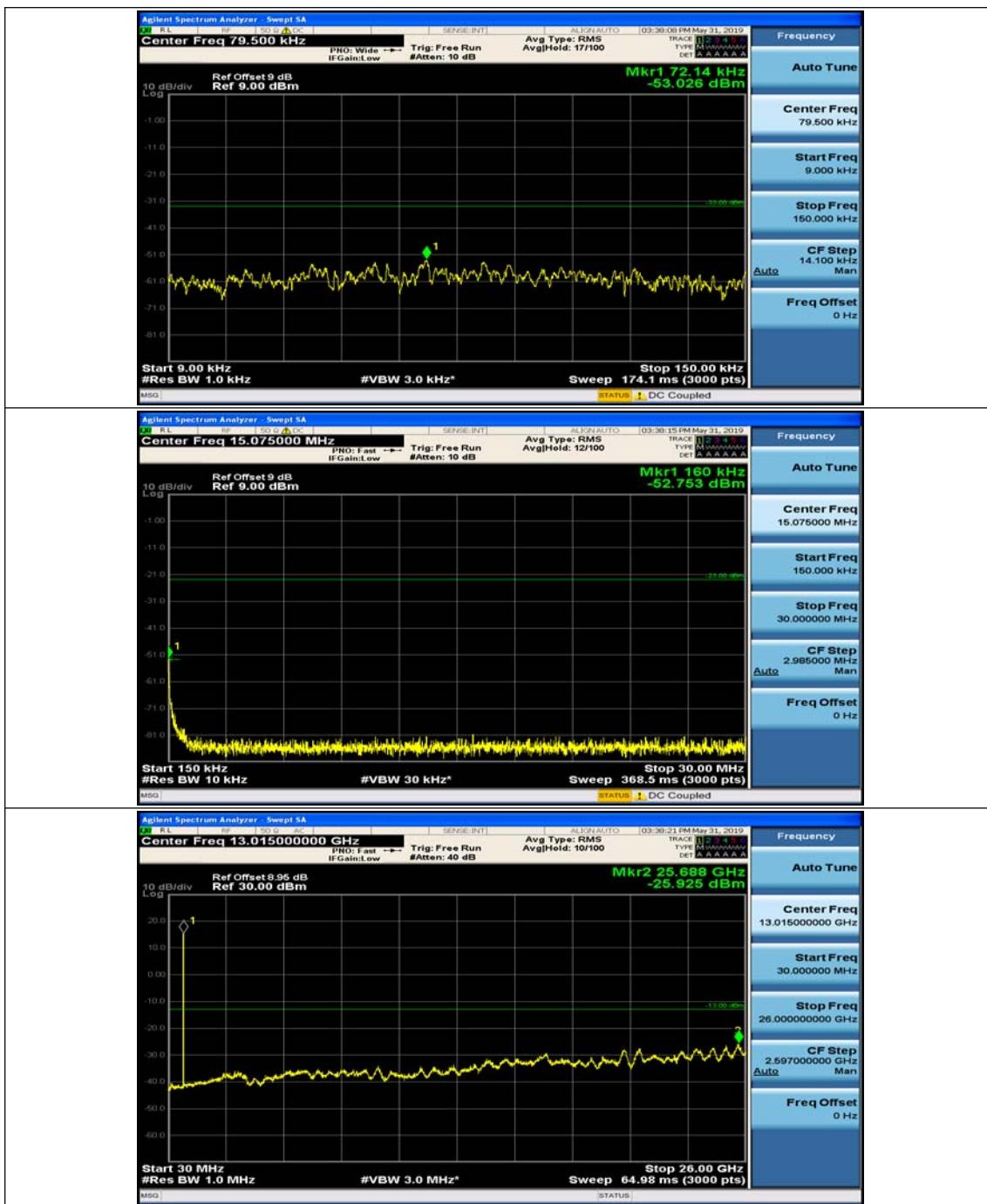
Channel Bandwidth: 10 MHz\_MCH\_QPSK\_1RB#24

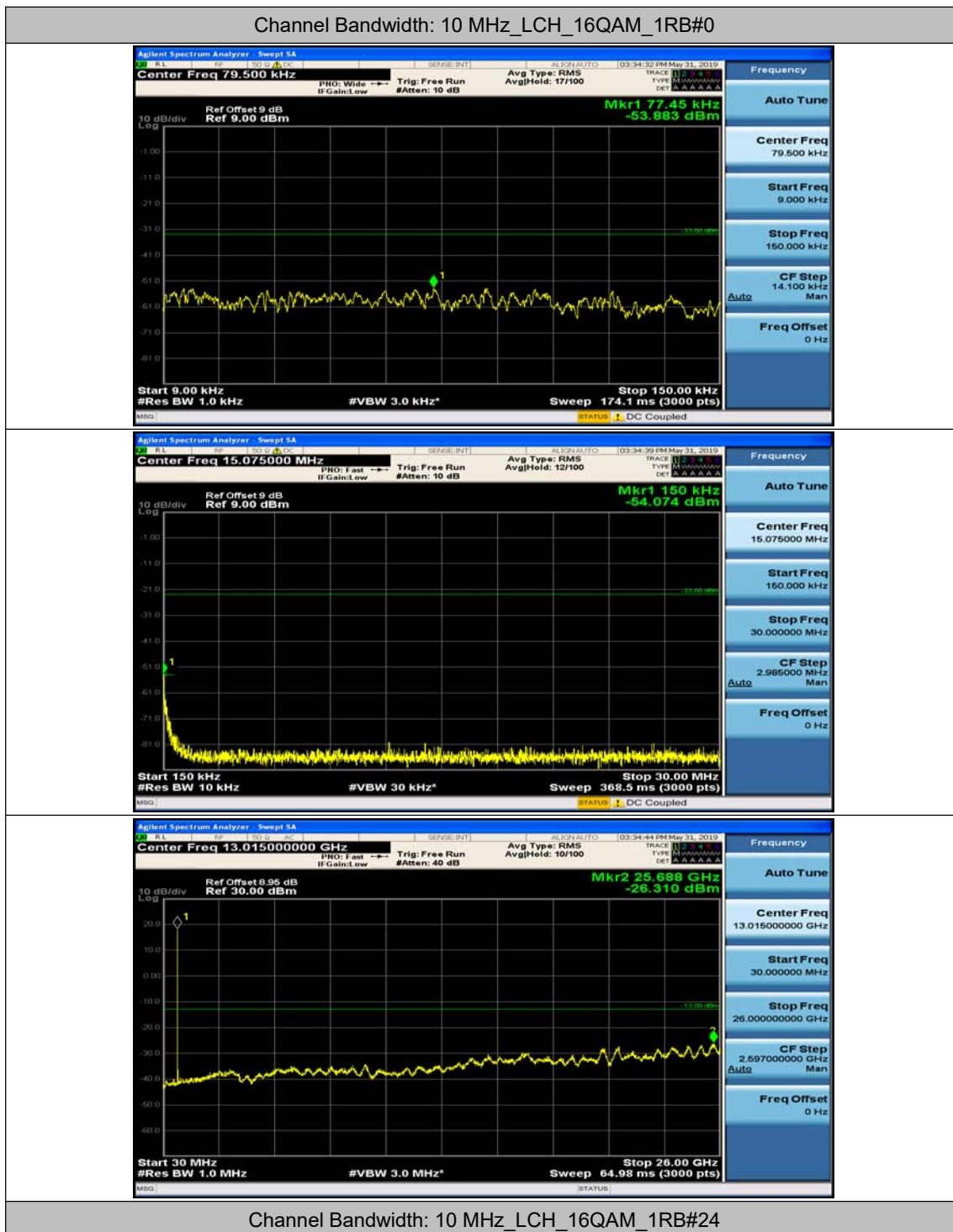


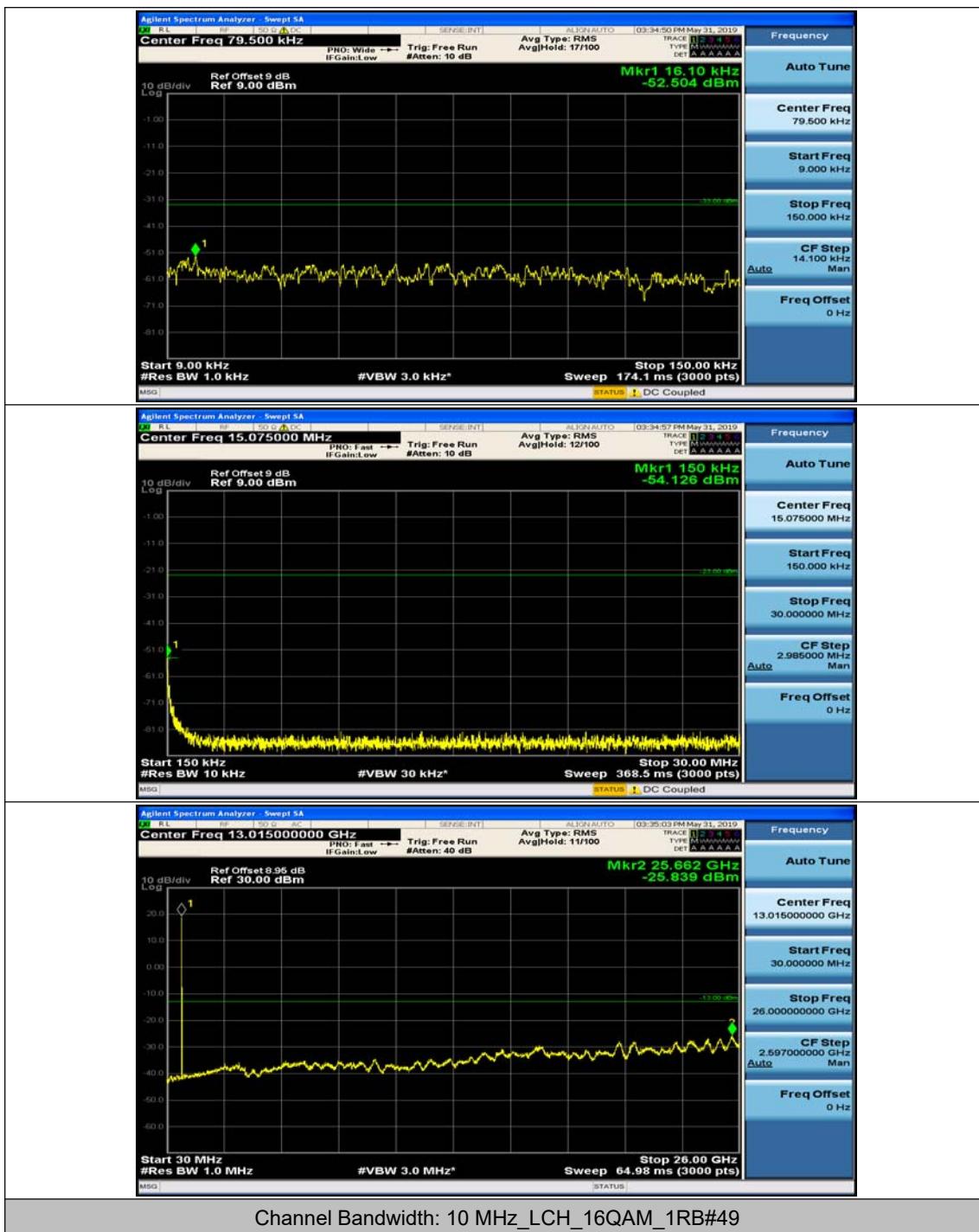


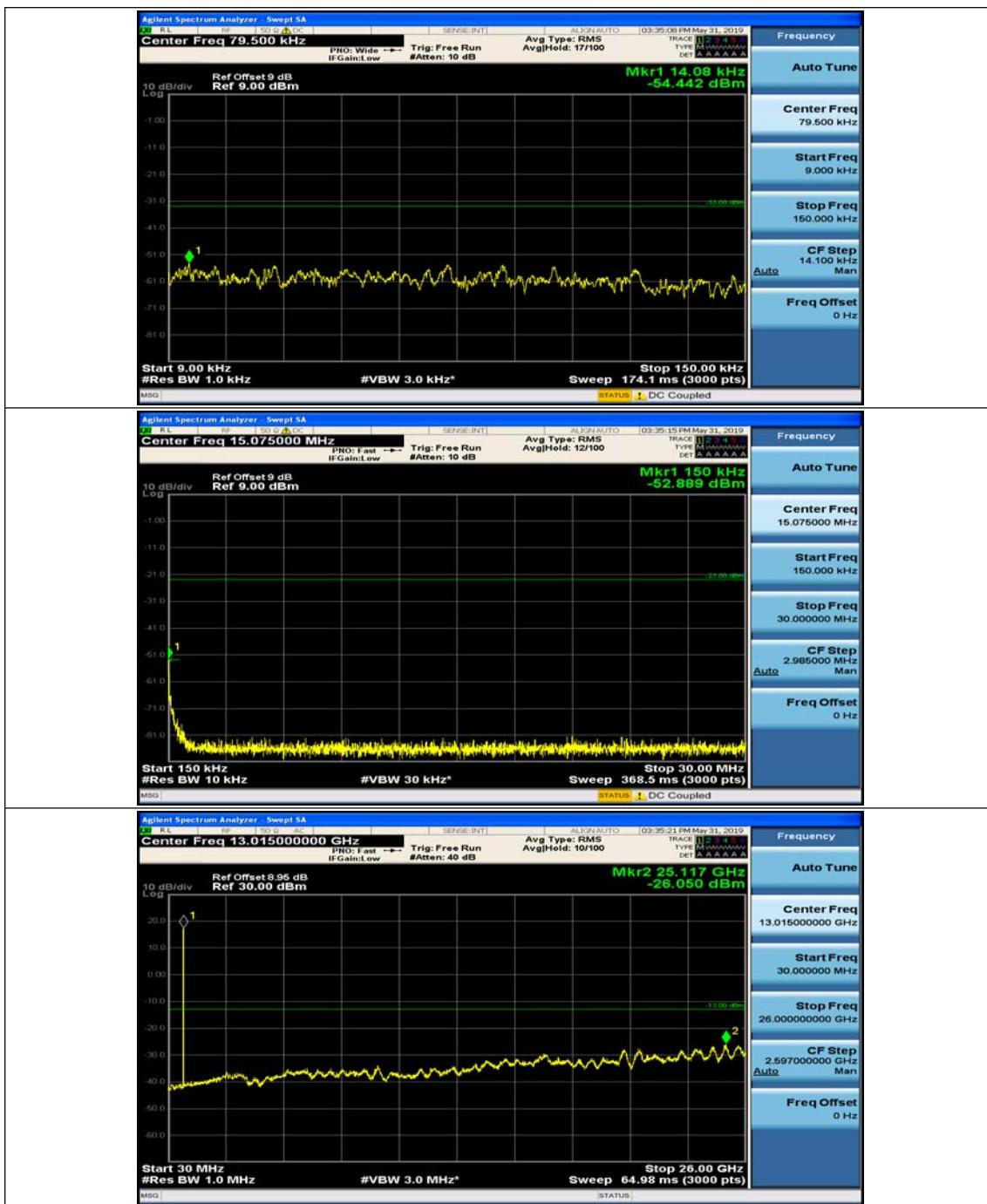


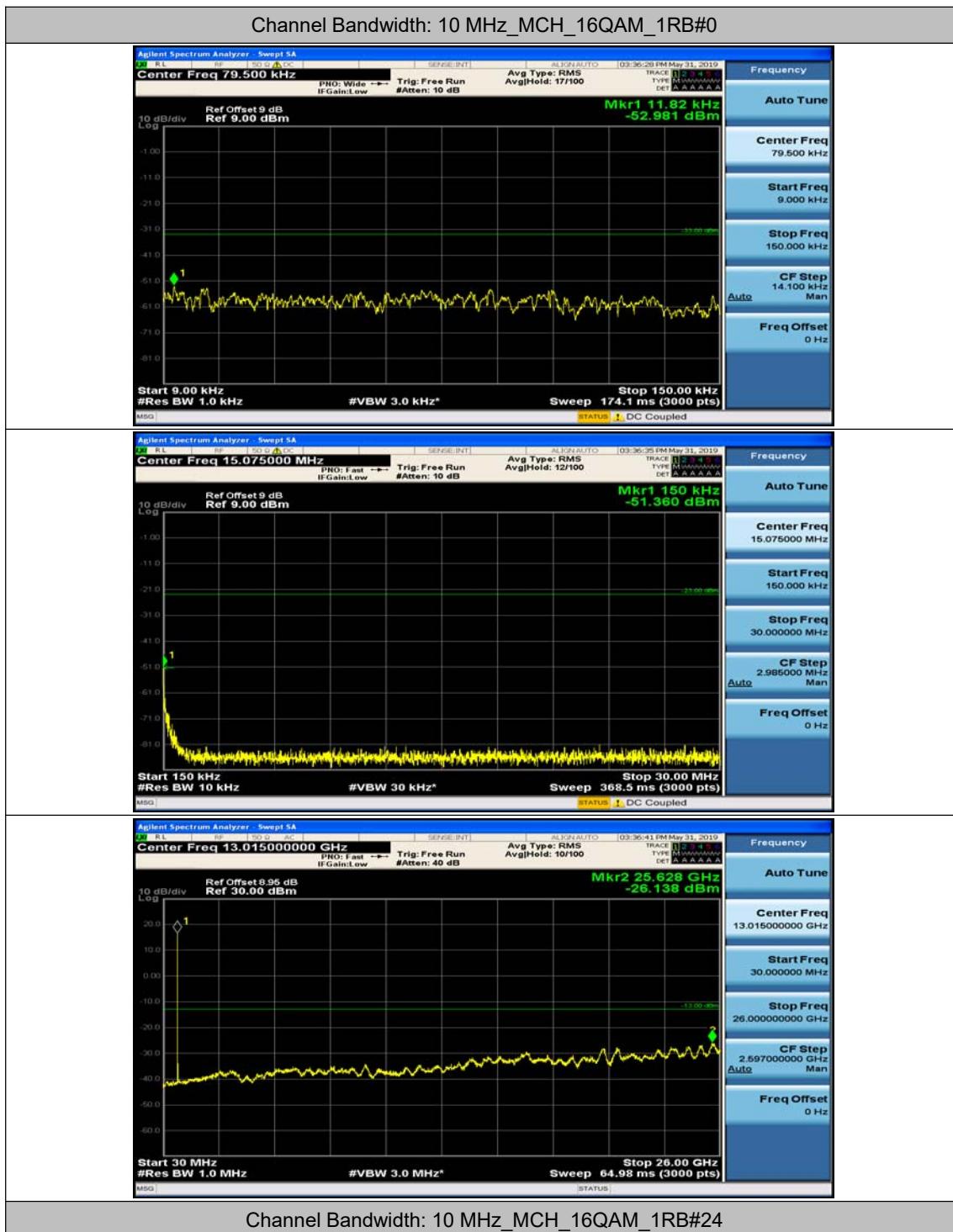


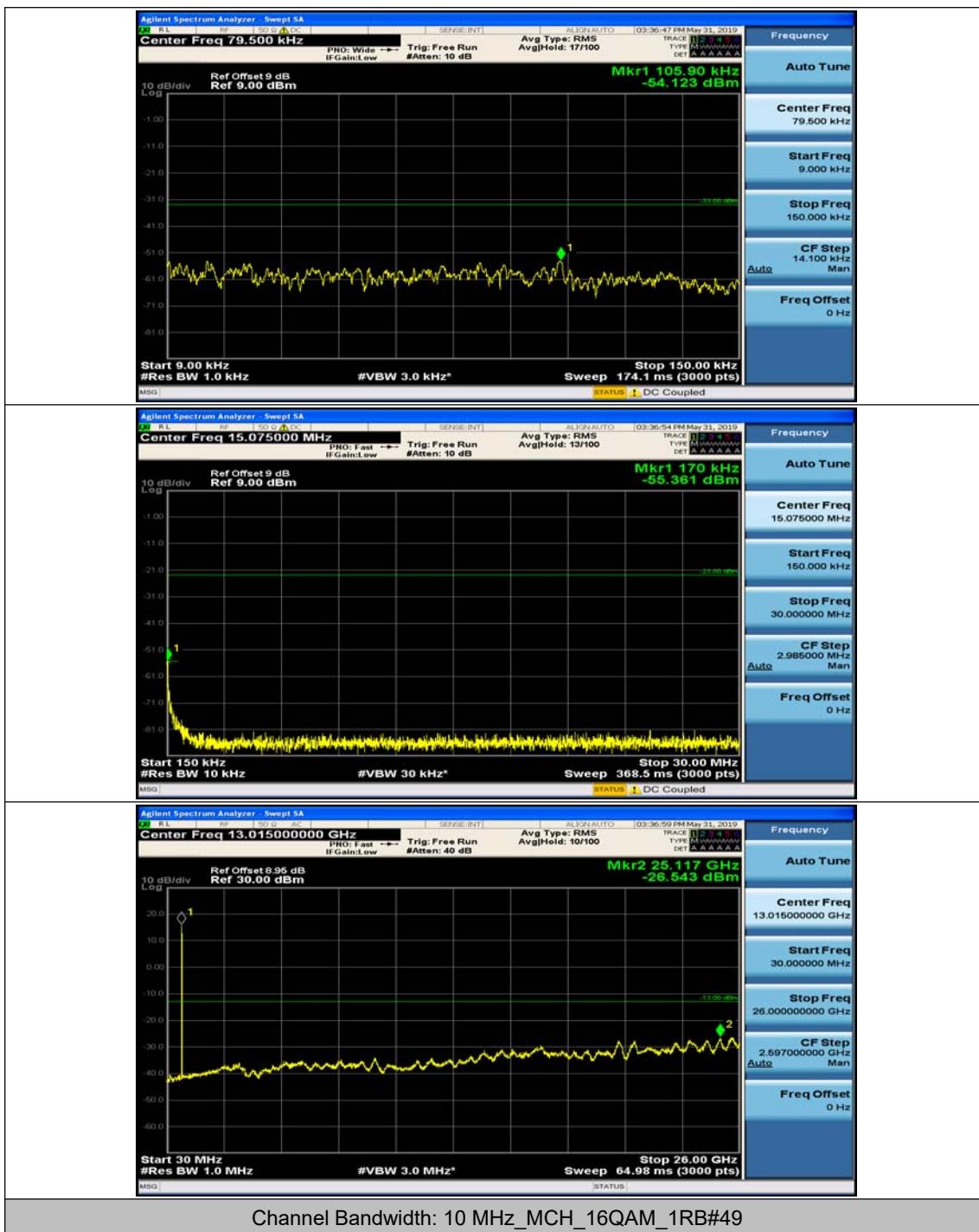


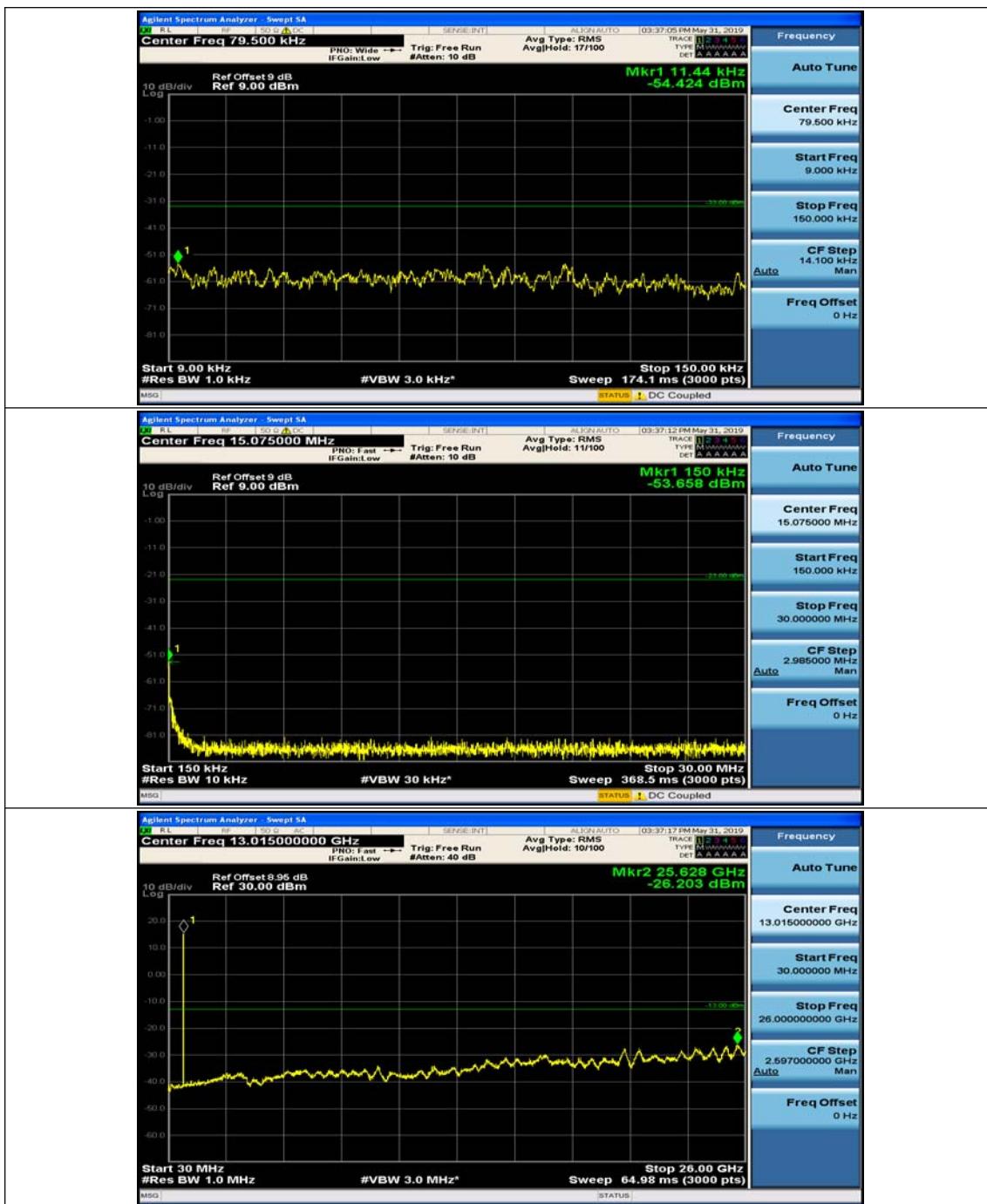


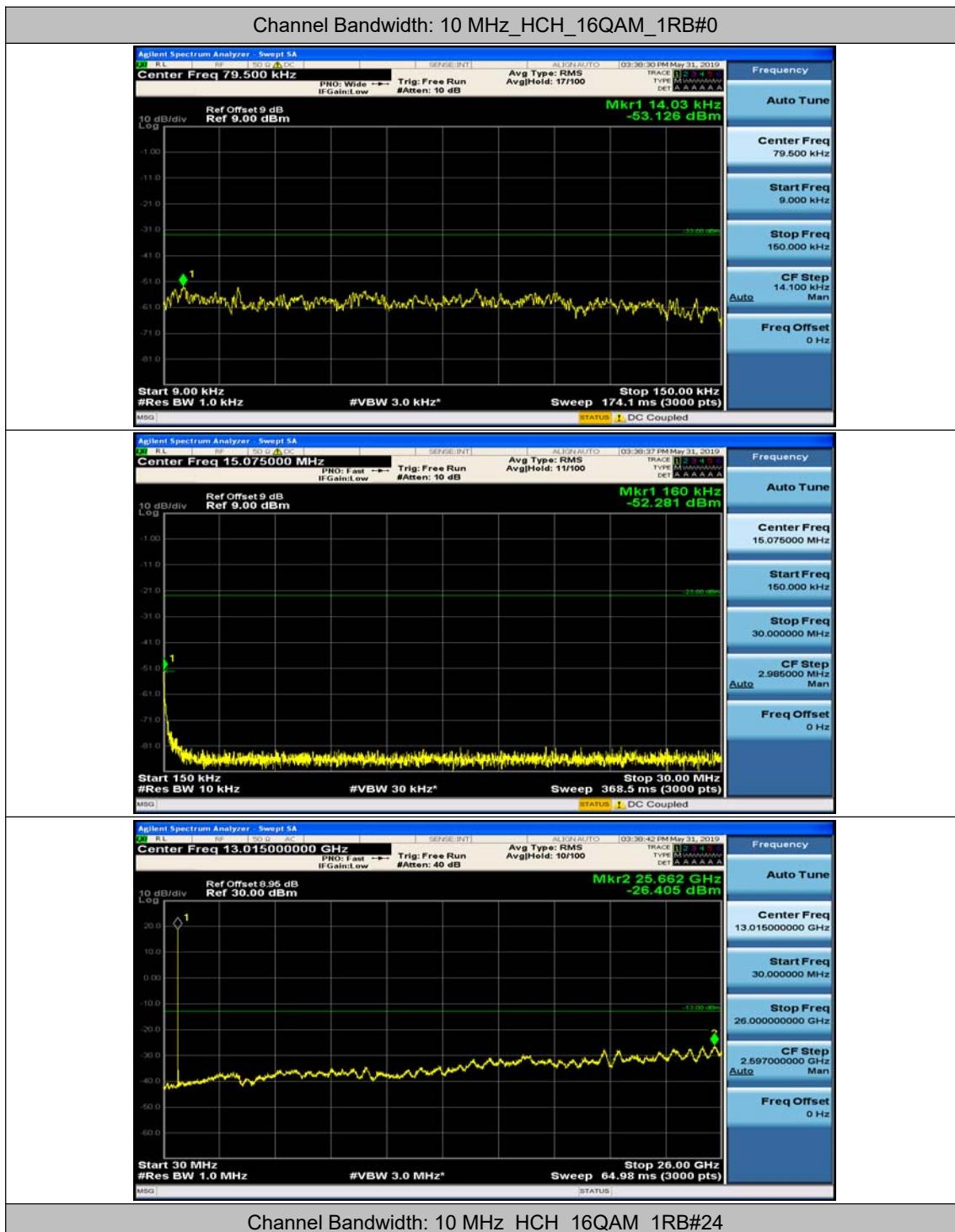


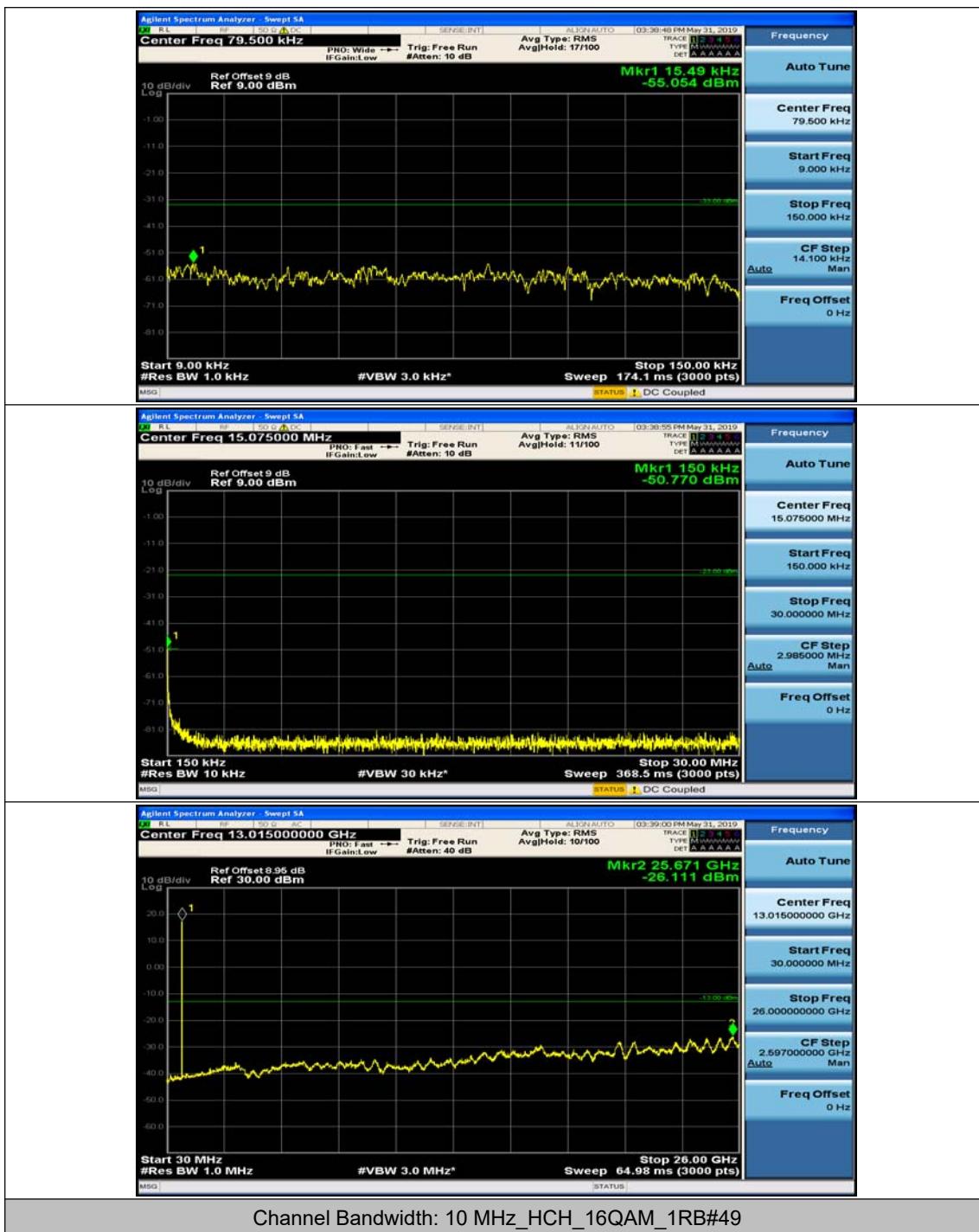


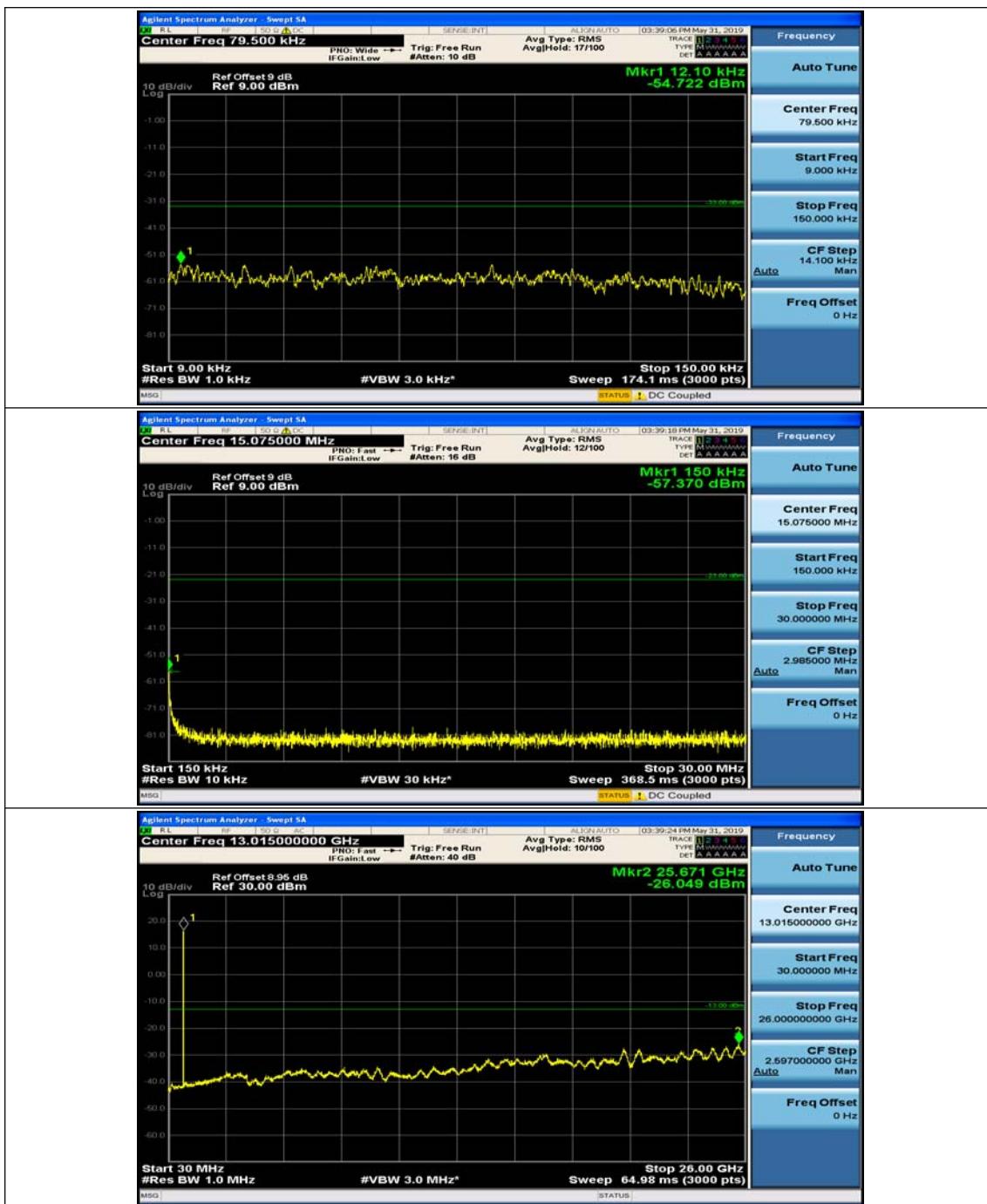












## Appendix F: Frequency Stability

### 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	-0.08	-0.000113	± 2.5	PASS
		VN	TN	4.06	0.005747	± 2.5	PASS
		VH	TN	4.04	0.005718	± 2.5	PASS
	MCH	VL	TN	2.24	0.003155	± 2.5	PASS
		VN	TN	-0.24	-0.000338	± 2.5	PASS
		VH	TN	4.19	0.005901	± 2.5	PASS
	HCH	VL	TN	-0.12	-0.000168	± 2.5	PASS
		VN	TN	3.35	0.004695	± 2.5	PASS
		VH	TN	3.68	0.005158	± 2.5	PASS
16QAM	LCH	VL	TN	4.38	0.006200	± 2.5	PASS
		VN	TN	-1.21	-0.001713	± 2.5	PASS
		VH	TN	2.47	0.003496	± 2.5	PASS
	MCH	VL	TN	0.08	0.000113	± 2.5	PASS
		VN	TN	4.85	0.006831	± 2.5	PASS
		VH	TN	4.98	0.007014	± 2.5	PASS
	HCH	VL	TN	-0.12	-0.000168	± 2.5	PASS
		VN	TN	-1.92	-0.002691	± 2.5	PASS
		VH	TN	-0.86	-0.001205	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.19	0.003100	± 2.5	PASS
		VN	-20	-0.17	-0.000241	± 2.5	PASS
		VN	-10	-0.5	-0.000708	± 2.5	PASS
		VN	0	3.56	0.005039	± 2.5	PASS
		VN	10	4.56	0.006454	± 2.5	PASS
		VN	20	-0.85	-0.001203	± 2.5	PASS
		VN	30	1.3	0.001840	± 2.5	PASS
		VN	40	3.94	0.005577	± 2.5	PASS
		VN	50	0.66	0.000934	± 2.5	PASS
	MCH	VN	-30	-2	-0.002817	± 2.5	PASS

		VN	-20	-1.6	-0.002254	$\pm 2.5$	PASS
		VN	-10	0.95	0.001338	$\pm 2.5$	PASS
		VN	0	2.31	0.003254	$\pm 2.5$	PASS
		VN	10	1.92	0.002704	$\pm 2.5$	PASS
		VN	20	3.6	0.005070	$\pm 2.5$	PASS
		VN	30	-0.23	-0.000324	$\pm 2.5$	PASS
		VN	40	1.29	0.001817	$\pm 2.5$	PASS
		VN	50	4.11	0.005789	$\pm 2.5$	PASS
	HCH	VN	-30	-0.52	-0.000729	$\pm 2.5$	PASS
		VN	-20	0.89	0.001247	$\pm 2.5$	PASS
		VN	-10	0.57	0.000799	$\pm 2.5$	PASS
		VN	0	3.52	0.004933	$\pm 2.5$	PASS
		VN	10	2.55	0.003574	$\pm 2.5$	PASS
		VN	20	-1.39	-0.001948	$\pm 2.5$	PASS
		VN	30	-1.75	-0.002453	$\pm 2.5$	PASS
		VN	40	2.38	0.003336	$\pm 2.5$	PASS
		VN	50	4.81	0.006741	$\pm 2.5$	PASS
16QAM	LCH	VN	-30	4.51	0.006384	$\pm 2.5$	PASS
		VN	-20	3.68	0.005209	$\pm 2.5$	PASS
		VN	-10	-0.02	-0.000028	$\pm 2.5$	PASS
		VN	0	-0.12	-0.000170	$\pm 2.5$	PASS
		VN	10	-0.43	-0.000609	$\pm 2.5$	PASS
		VN	20	0.09	0.000127	$\pm 2.5$	PASS
		VN	30	-1.69	-0.002392	$\pm 2.5$	PASS
		VN	40	-0.87	-0.001231	$\pm 2.5$	PASS
		VN	50	-1.94	-0.002746	$\pm 2.5$	PASS
	MCH	VN	-30	4.18	0.005858	$\pm 2.5$	PASS
		VN	-20	-1.86	-0.002607	$\pm 2.5$	PASS
		VN	-10	-1.51	-0.002116	$\pm 2.5$	PASS
		VN	0	4.3	0.006027	$\pm 2.5$	PASS
		VN	10	4.85	0.006797	$\pm 2.5$	PASS
		VN	20	1.74	0.002439	$\pm 2.5$	PASS
		VN	30	3.5	0.004905	$\pm 2.5$	PASS
	HCH	VN	40	-1.82	-0.002551	$\pm 2.5$	PASS
		VN	50	0.75	0.001051	$\pm 2.5$	PASS
		VN	-30	2.77	0.003882	$\pm 2.5$	PASS
		VN	-20	-1.98	-0.002775	$\pm 2.5$	PASS
		VN	-10	1.15	0.001612	$\pm 2.5$	PASS
		VN	0	0.19	0.000266	$\pm 2.5$	PASS
		VN	10	-1.6	-0.002242	$\pm 2.5$	PASS
		VN	20	3.5	0.004905	$\pm 2.5$	PASS

		VN	30	4.89	0.006854	$\pm 2.5$	PASS
		VN	40	-0.53	-0.000743	$\pm 2.5$	PASS
		VN	50	0.53	0.000743	$\pm 2.5$	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	4.97	0.007010	$\pm 2.5$	PASS
		VN	TN	1.51	0.002130	$\pm 2.5$	PASS
		VH	TN	1.64	0.002313	$\pm 2.5$	PASS
	MCH	VL	TN	4.01	0.005648	$\pm 2.5$	PASS
		VN	TN	2.88	0.004056	$\pm 2.5$	PASS
		VH	TN	4.48	0.006310	$\pm 2.5$	PASS
	HCH	VL	TN	-1.57	-0.002208	$\pm 2.5$	PASS
		VN	TN	-0.39	-0.000549	$\pm 2.5$	PASS
		VH	TN	4.87	0.006850	$\pm 2.5$	PASS
16QAM	LCH	VL	TN	3.64	0.005134	$\pm 2.5$	PASS
		VN	TN	2.08	0.002934	$\pm 2.5$	PASS
		VH	TN	-0.75	-0.001058	$\pm 2.5$	PASS
	MCH	VL	TN	1.05	0.001479	$\pm 2.5$	PASS
		VN	TN	0.91	0.001282	$\pm 2.5$	PASS
		VH	TN	4.01	0.005648	$\pm 2.5$	PASS
	HCH	VL	TN	3.85	0.005415	$\pm 2.5$	PASS
		VN	TN	1.59	0.002236	$\pm 2.5$	PASS
		VH	TN	3.02	0.004248	$\pm 2.5$	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	0.48	0.000677	$\pm 2.5$	PASS
		VN	-20	2.38	0.003357	$\pm 2.5$	PASS
		VN	-10	0.84	0.001185	$\pm 2.5$	PASS
		VN	0	1.44	0.002031	$\pm 2.5$	PASS
		VN	10	2.68	0.003780	$\pm 2.5$	PASS
		VN	20	-1.11	-0.001566	$\pm 2.5$	PASS
		VN	30	3.59	0.005063	$\pm 2.5$	PASS
		VN	40	0.22	0.000310	$\pm 2.5$	PASS
		VN	50	-0.35	-0.000494	$\pm 2.5$	PASS
	MCH	VN	-30	0.83	0.001169	$\pm 2.5$	PASS
		VN	-20	-1.61	-0.002268	$\pm 2.5$	PASS

	HCH	VN	-10	-1.76	-0.002479	$\pm 2.5$	PASS
		VN	0	1.52	0.002141	$\pm 2.5$	PASS
		VN	10	-1.98	-0.002789	$\pm 2.5$	PASS
		VN	20	1.52	0.002141	$\pm 2.5$	PASS
		VN	30	4.41	0.006211	$\pm 2.5$	PASS
		VN	40	-1.42	-0.002000	$\pm 2.5$	PASS
		VN	50	-0.81	-0.001141	$\pm 2.5$	PASS
		VN	-30	3.15	0.004430	$\pm 2.5$	PASS
		VN	-20	4.92	0.006920	$\pm 2.5$	PASS
		VN	-10	2.19	0.003080	$\pm 2.5$	PASS
		VN	0	0.98	0.001378	$\pm 2.5$	PASS
		VN	10	-1.27	-0.001786	$\pm 2.5$	PASS
		VN	20	3.72	0.005232	$\pm 2.5$	PASS
		VN	30	2.76	0.003882	$\pm 2.5$	PASS
		VN	40	3.53	0.004965	$\pm 2.5$	PASS
		VN	50	3.92	0.005513	$\pm 2.5$	PASS
QPSK	LCH	VN	-30	1.53	0.002155	$\pm 2.5$	PASS
		VN	-20	1.46	0.002056	$\pm 2.5$	PASS
		VN	-10	0.2	0.000282	$\pm 2.5$	PASS
		VN	0	4.5	0.006338	$\pm 2.5$	PASS
		VN	10	-1.03	-0.001451	$\pm 2.5$	PASS
		VN	20	-0.09	-0.000127	$\pm 2.5$	PASS
		VN	30	-1.53	-0.002155	$\pm 2.5$	PASS
		VN	40	3.02	0.004254	$\pm 2.5$	PASS
		VN	50	2.43	0.003423	$\pm 2.5$	PASS
	MCH	VN	-30	-0.56	-0.000788	$\pm 2.5$	PASS
		VN	-20	1.69	0.002377	$\pm 2.5$	PASS
		VN	-10	-1.99	-0.002799	$\pm 2.5$	PASS
		VN	0	-0.21	-0.000295	$\pm 2.5$	PASS
		VN	10	-1.2	-0.001688	$\pm 2.5$	PASS
		VN	20	0.92	0.001294	$\pm 2.5$	PASS
		VN	30	3.58	0.005035	$\pm 2.5$	PASS
		VN	40	4.76	0.006695	$\pm 2.5$	PASS
	HCH	VN	50	4.95	0.006962	$\pm 2.5$	PASS
		VN	-30	2.21	0.003108	$\pm 2.5$	PASS
		VN	-20	4.87	0.006850	$\pm 2.5$	PASS
		VN	-10	3.76	0.005288	$\pm 2.5$	PASS
		VN	0	4.52	0.006357	$\pm 2.5$	PASS
		VN	10	0.02	0.000028	$\pm 2.5$	PASS
		VN	20	2.57	0.003615	$\pm 2.5$	PASS
		VN	30	4.79	0.006737	$\pm 2.5$	PASS

		VN	40	1.79	0.002518	± 2.5	PASS
		VN	50	3.65	0.005134	± 2.5	PASS