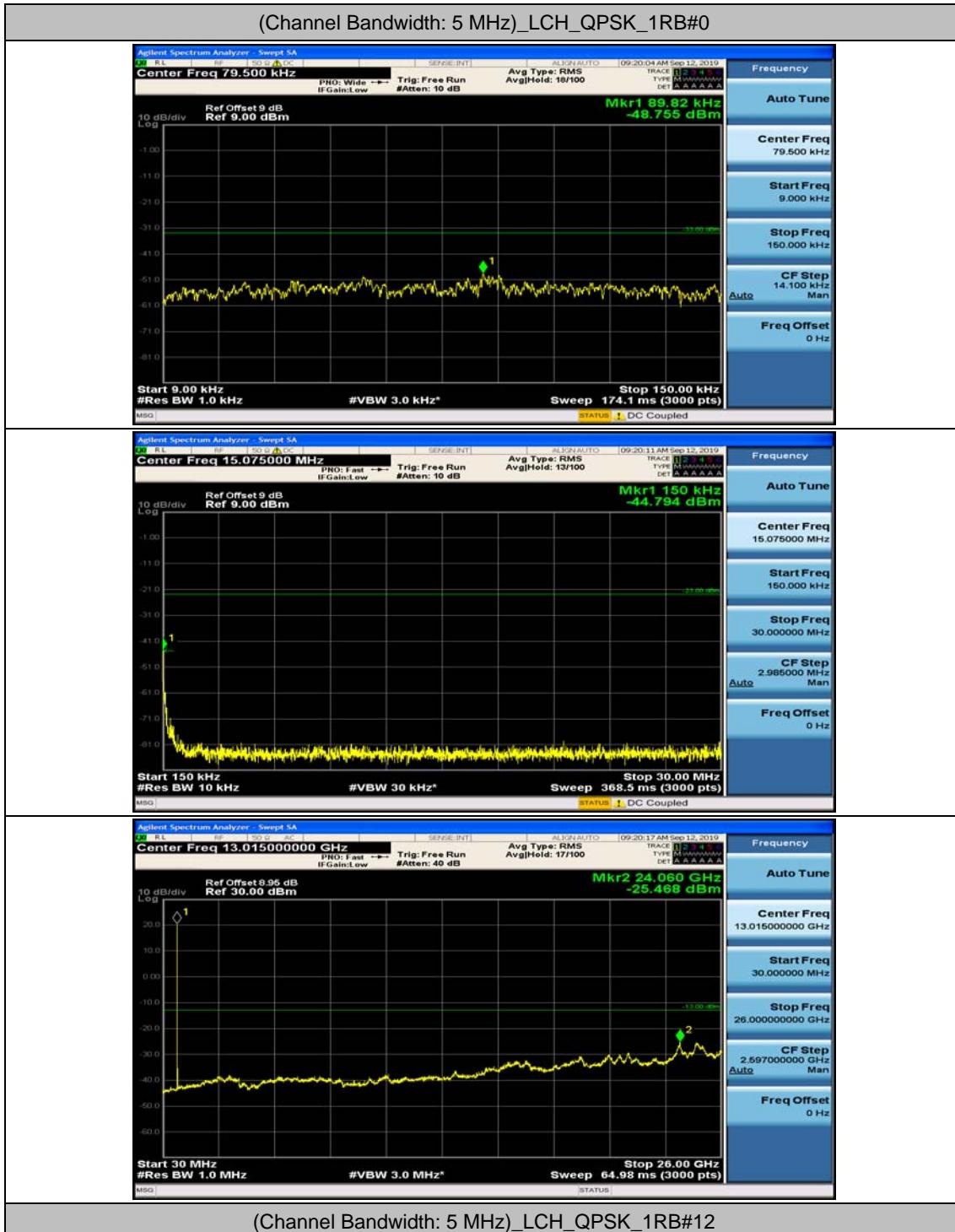
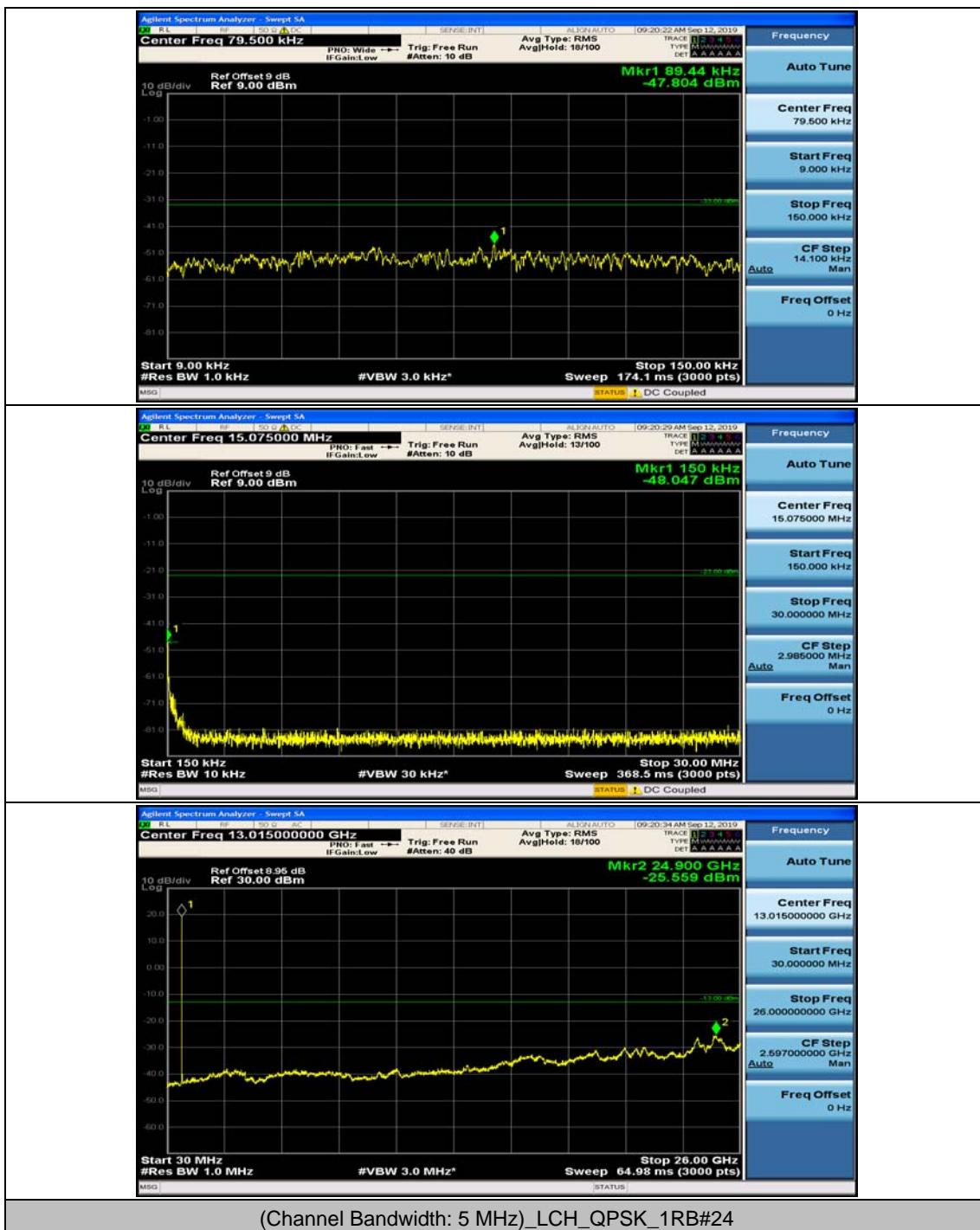


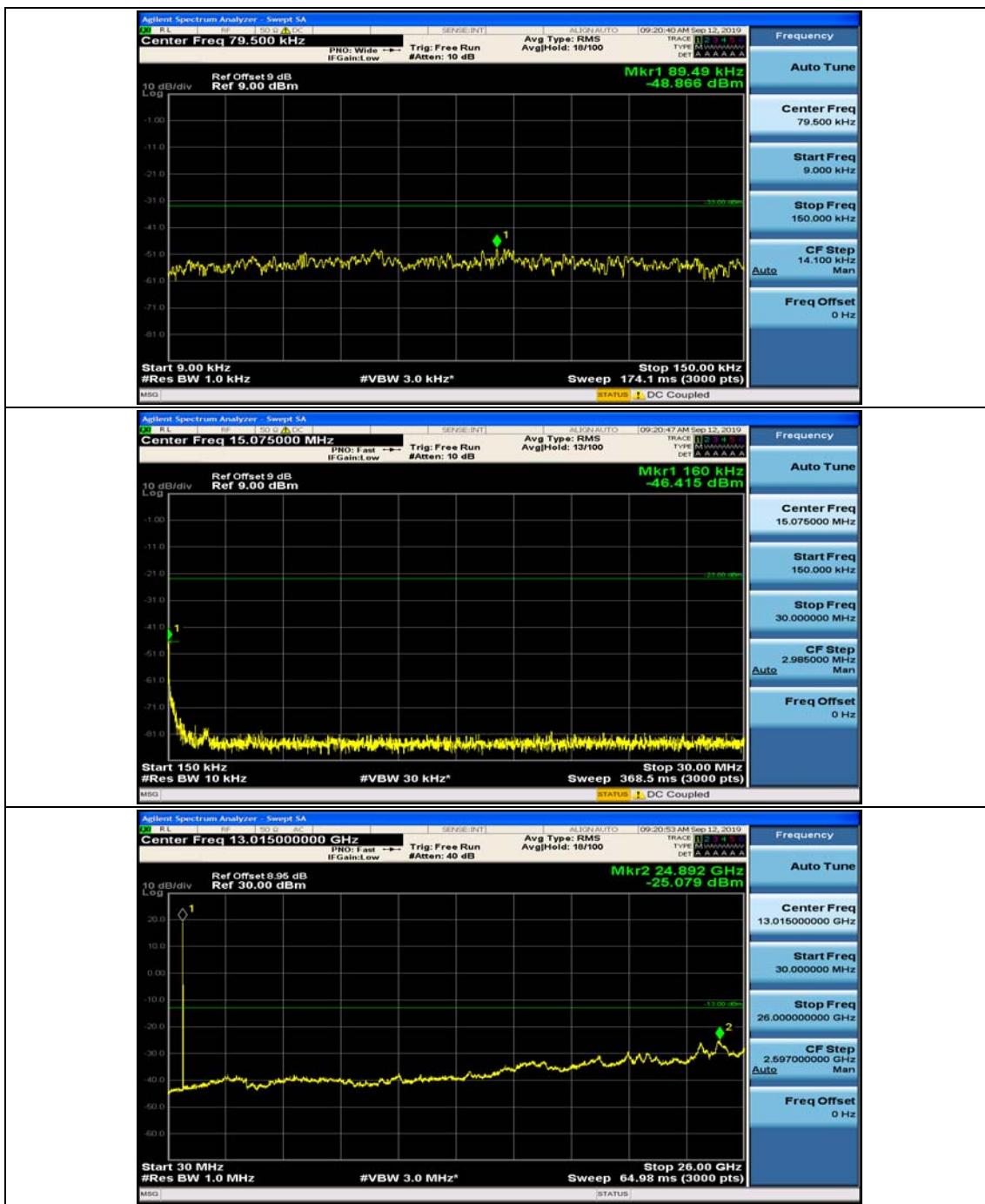
Appendix E: Conducted Spurious Emission

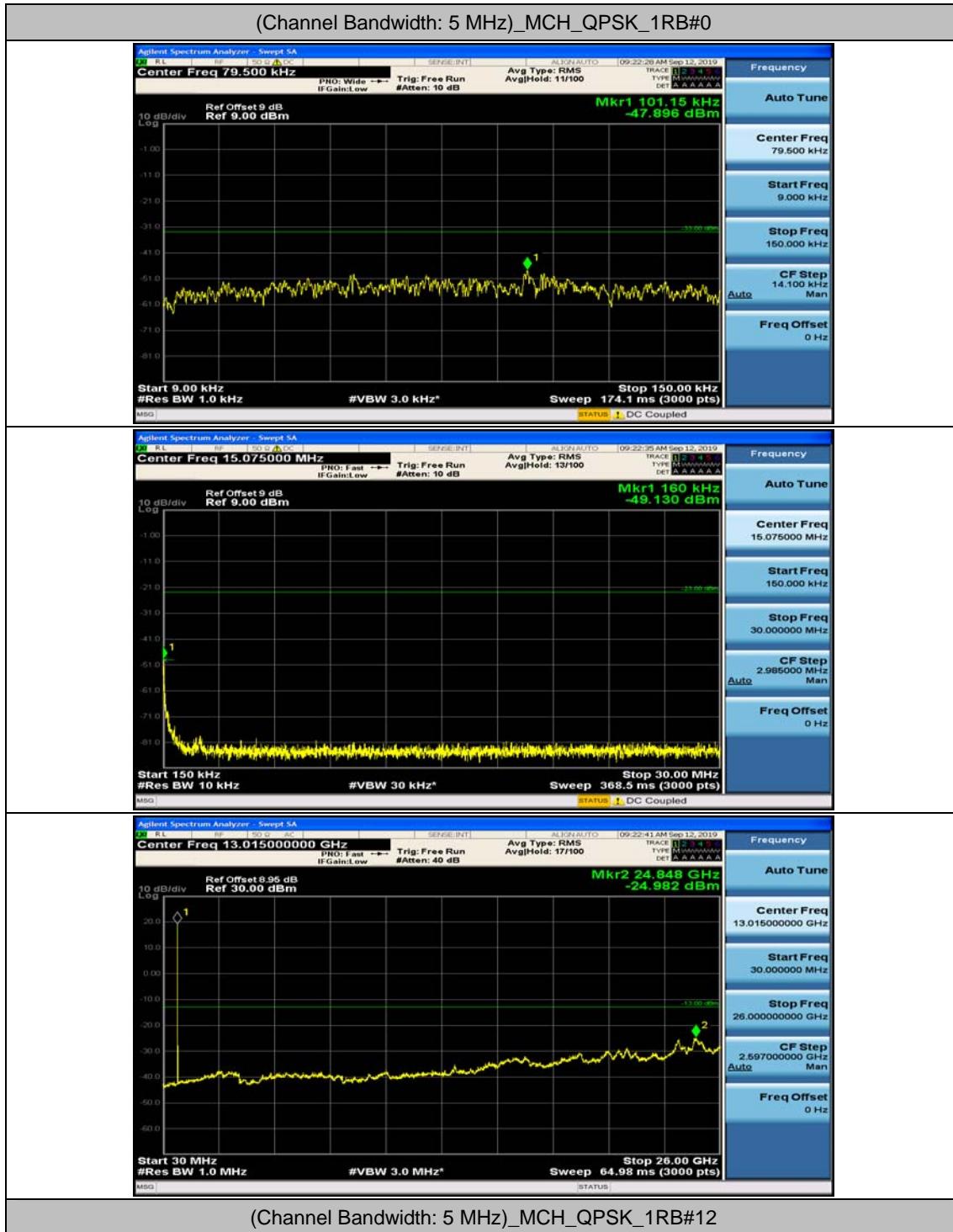
Test Graphs

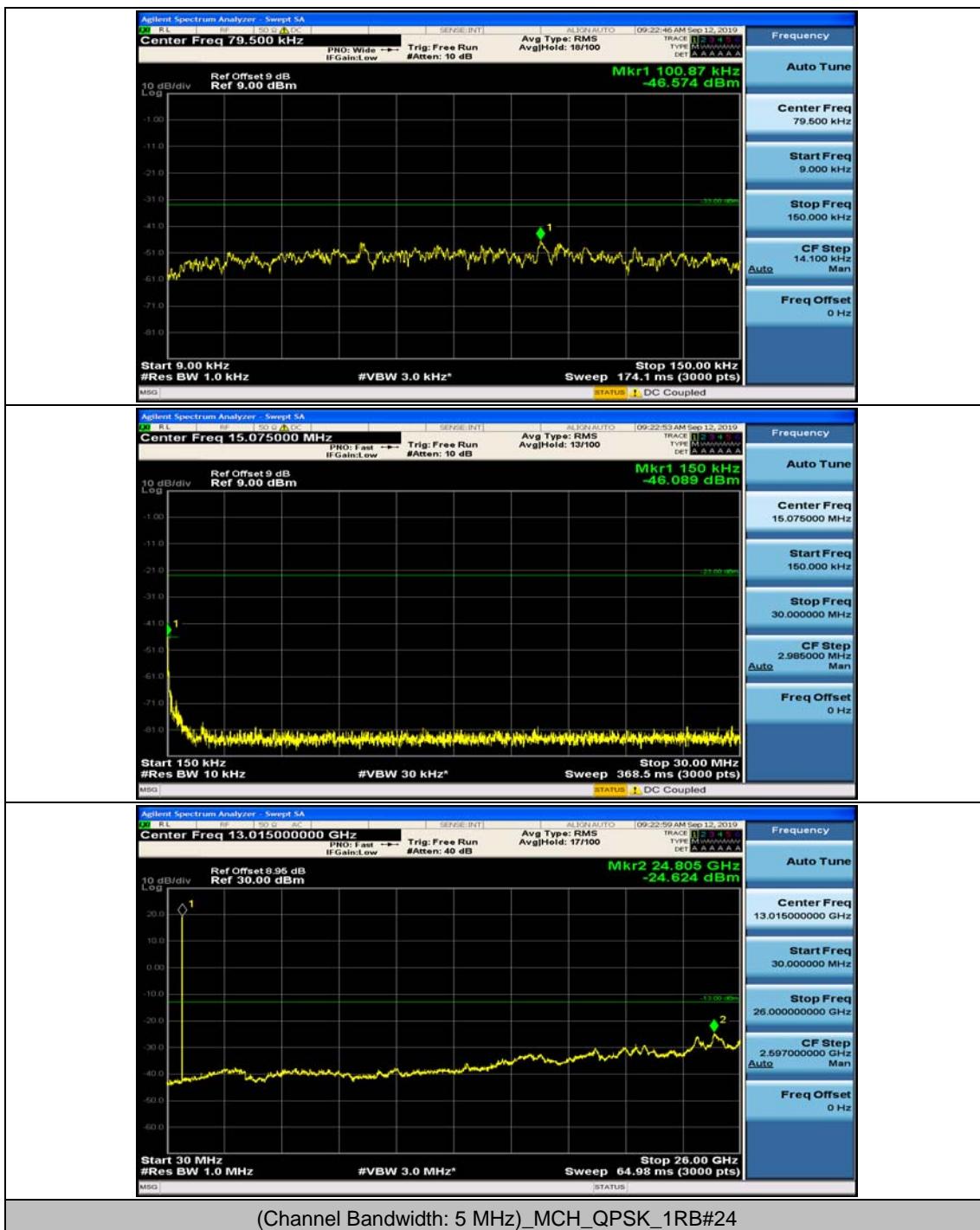
Channel Bandwidth: 5 MHz

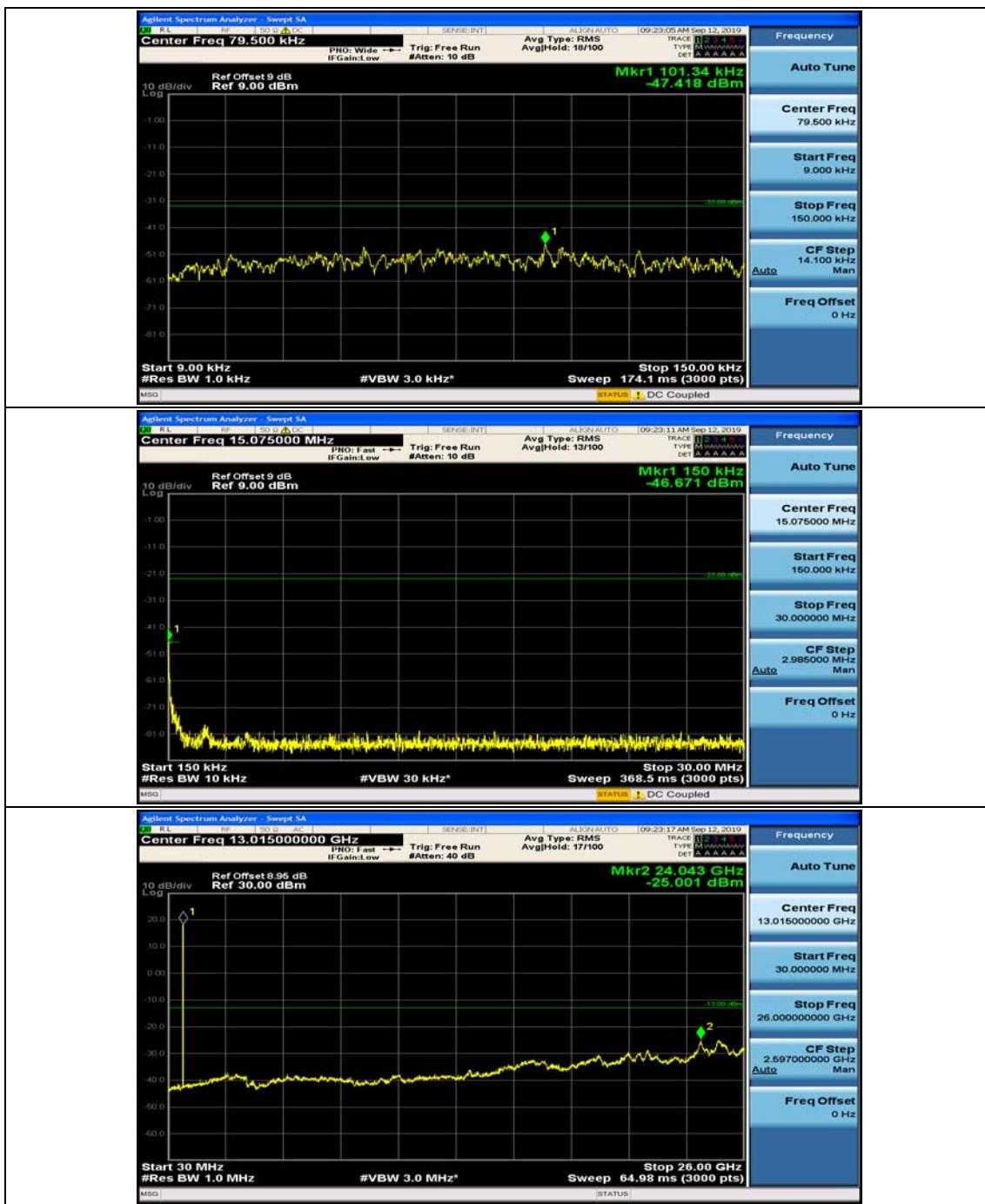


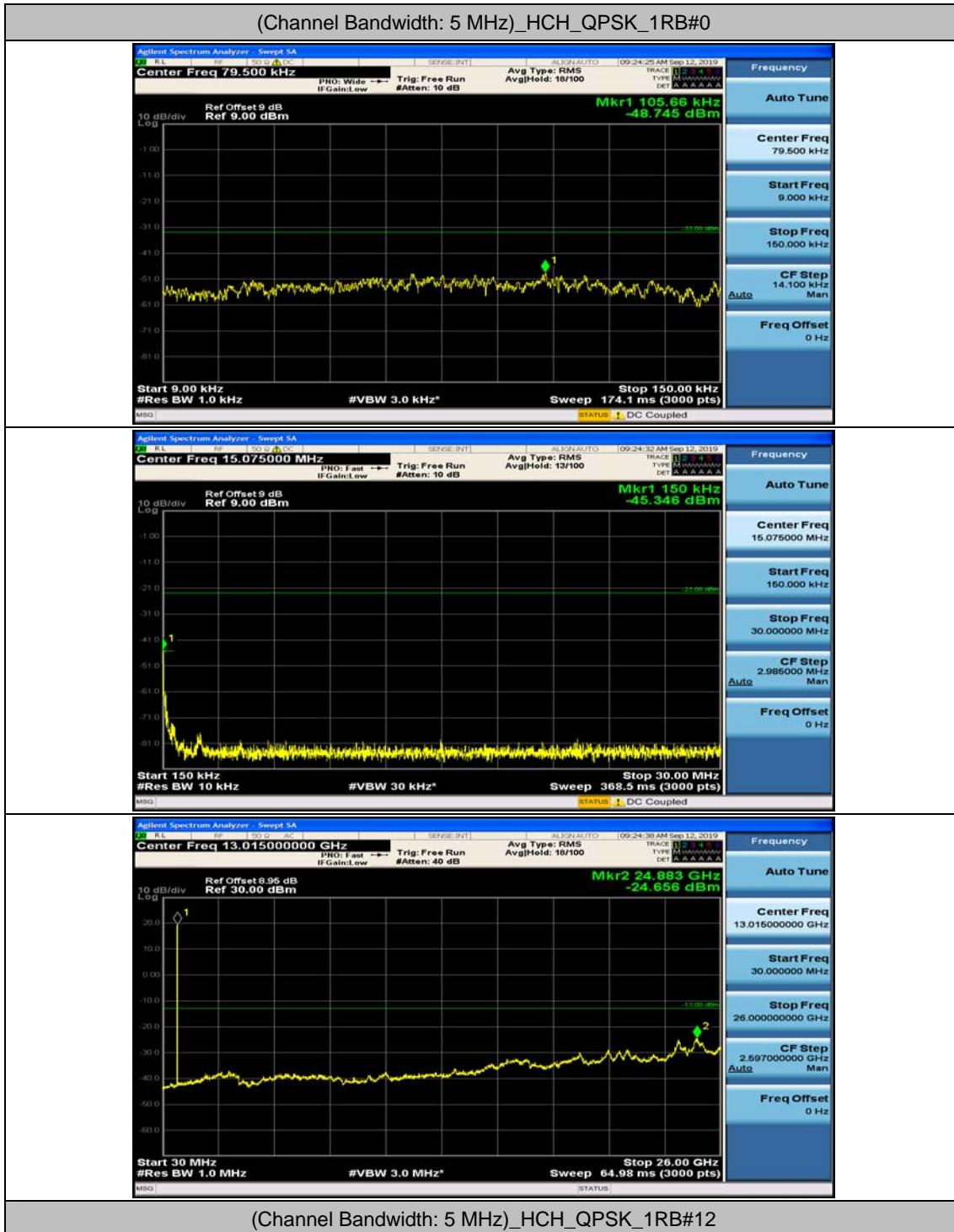


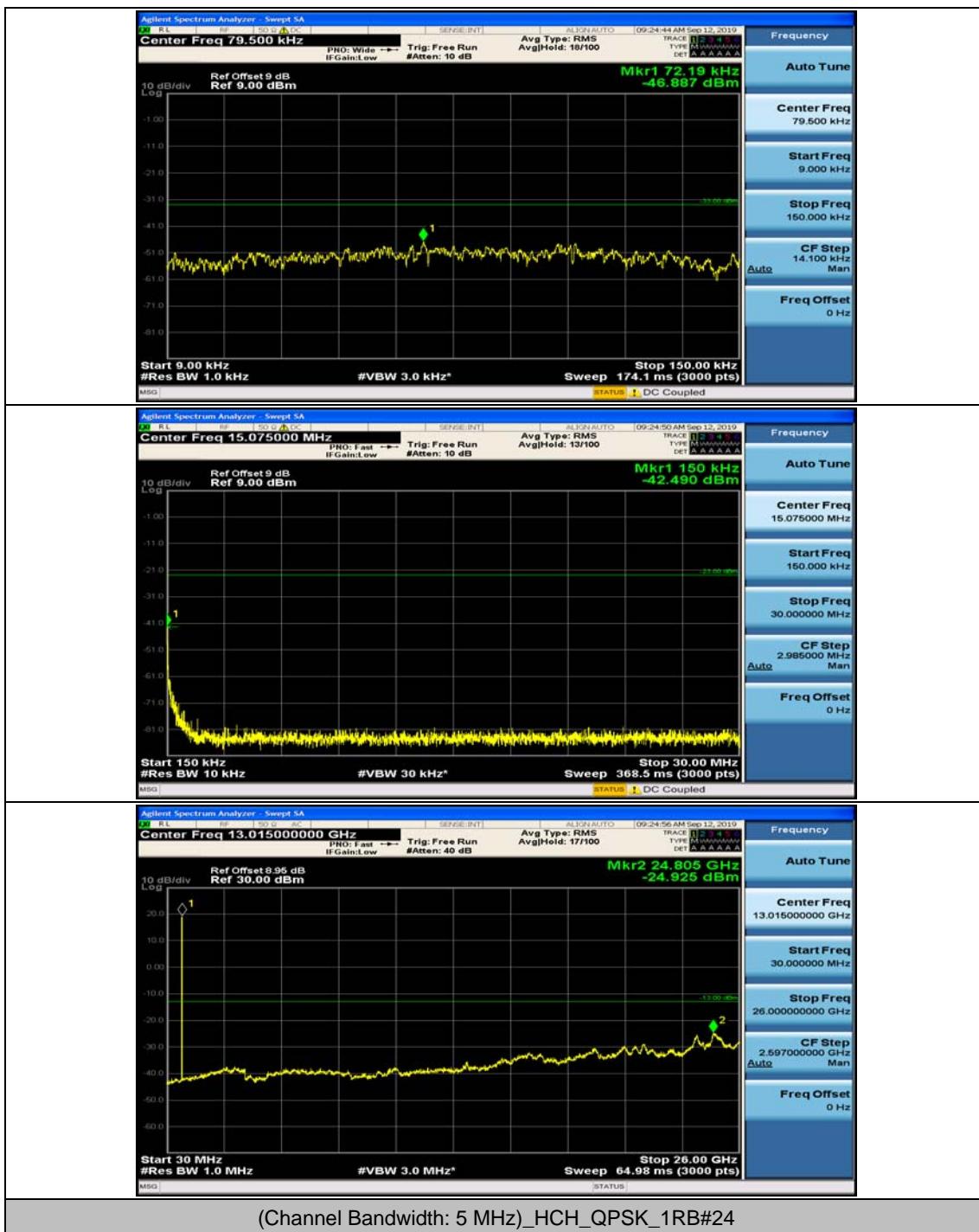


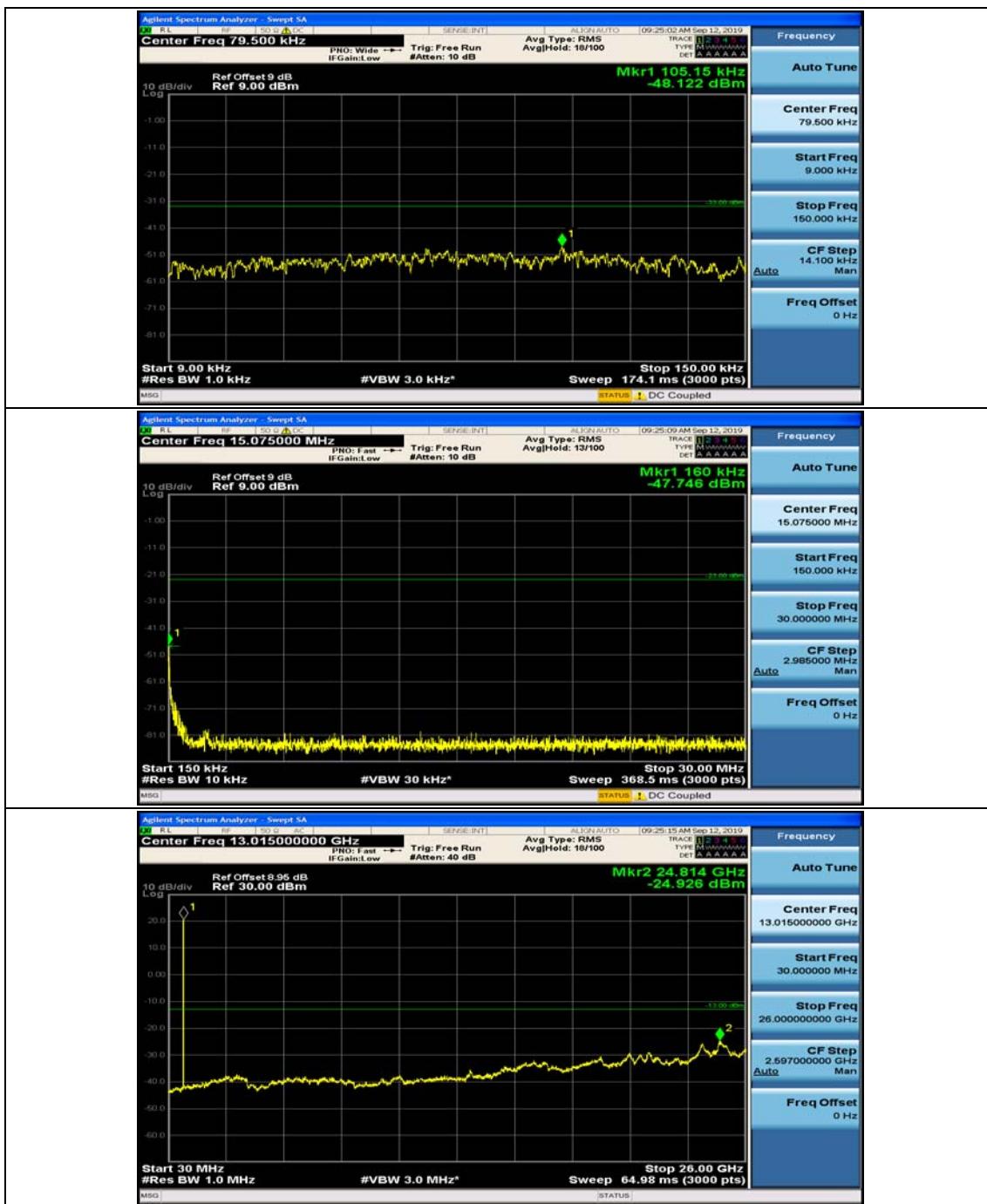


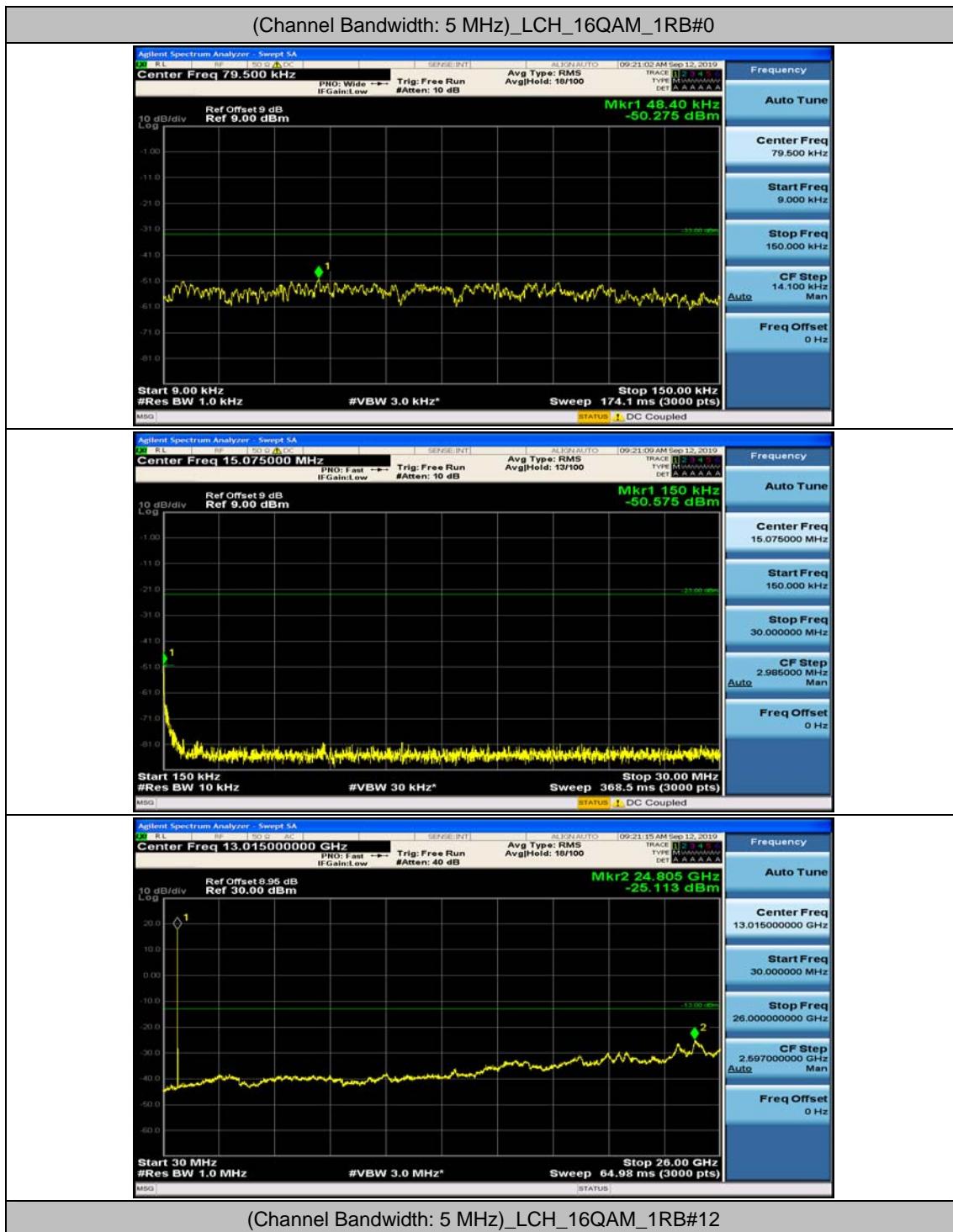


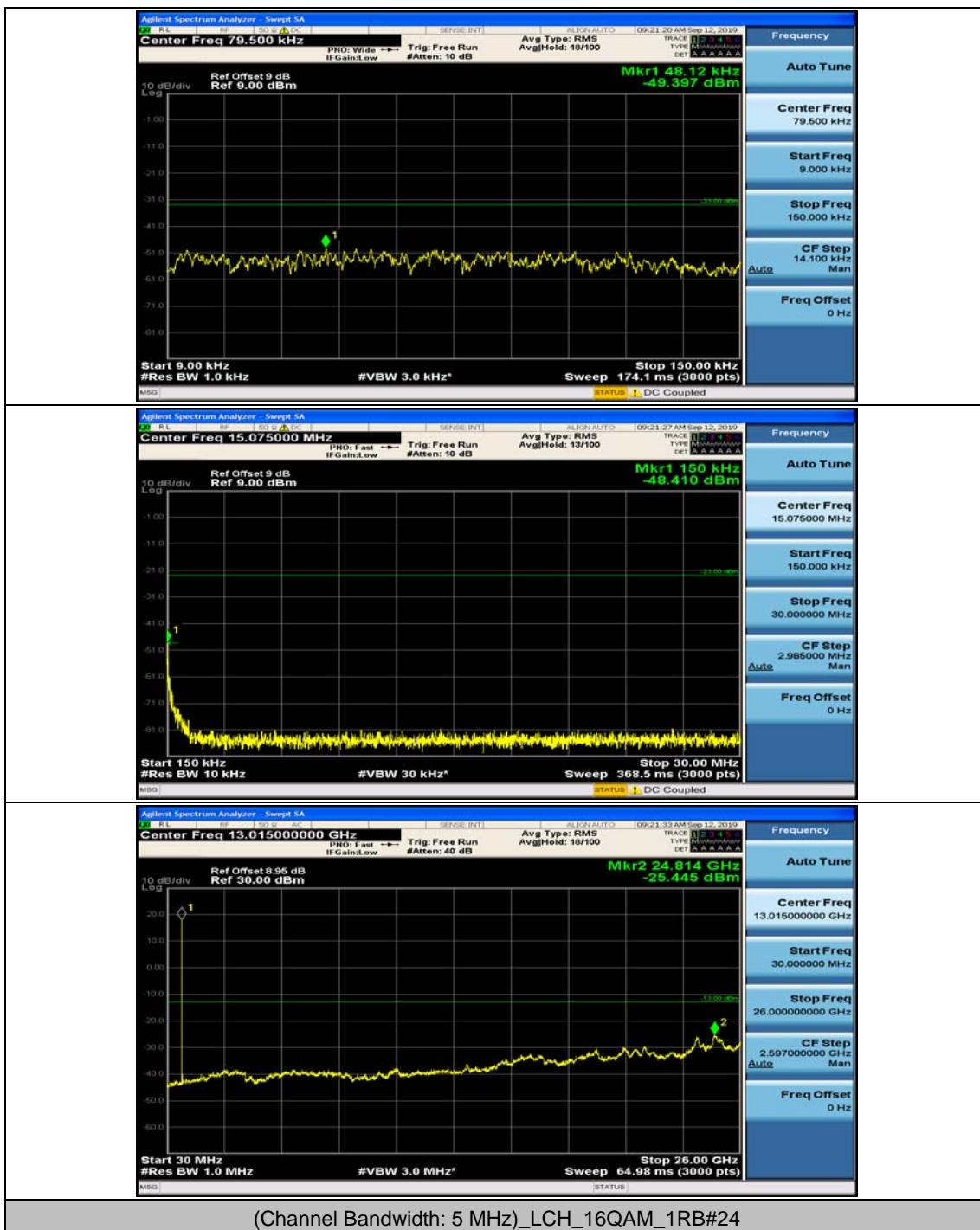


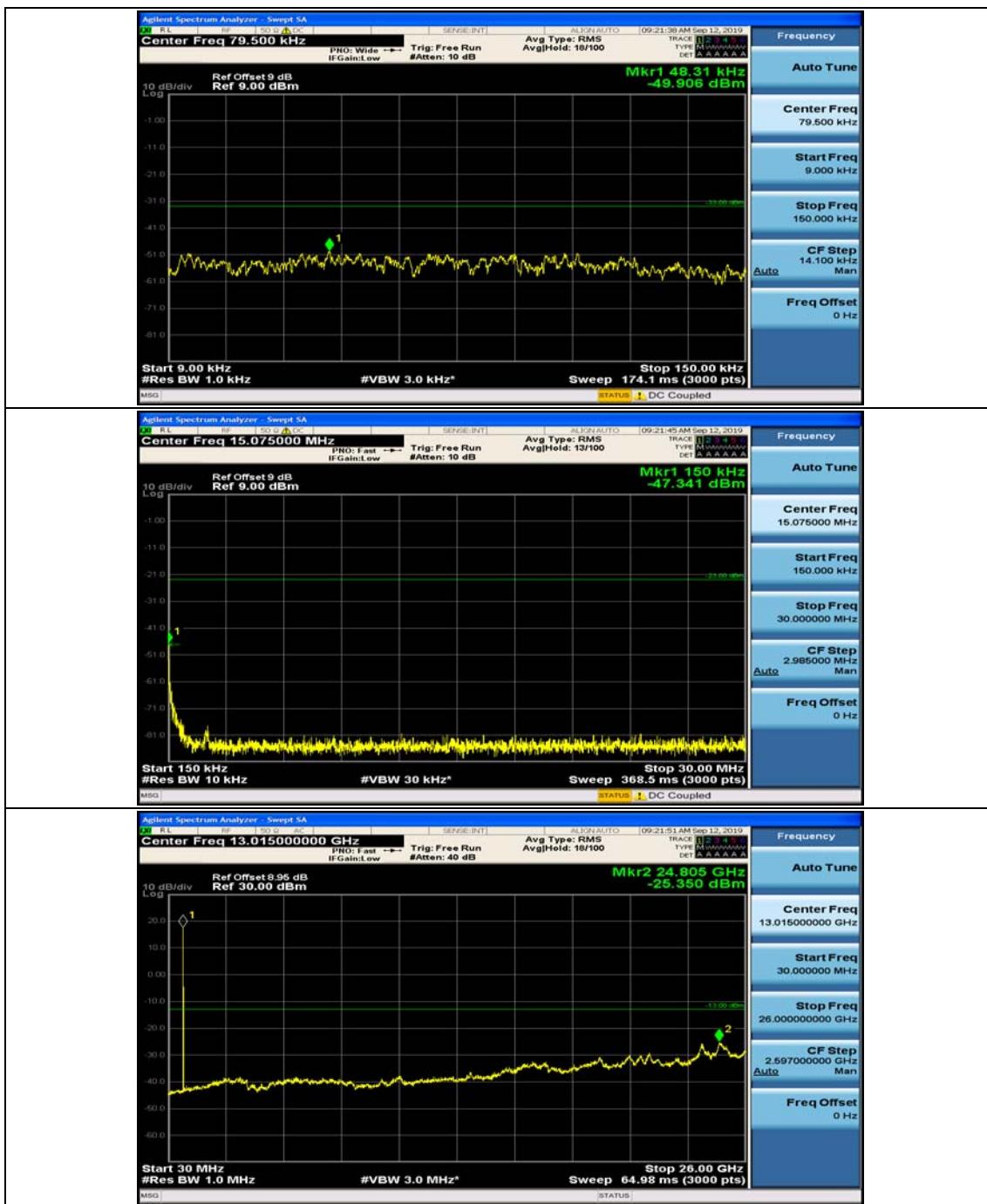


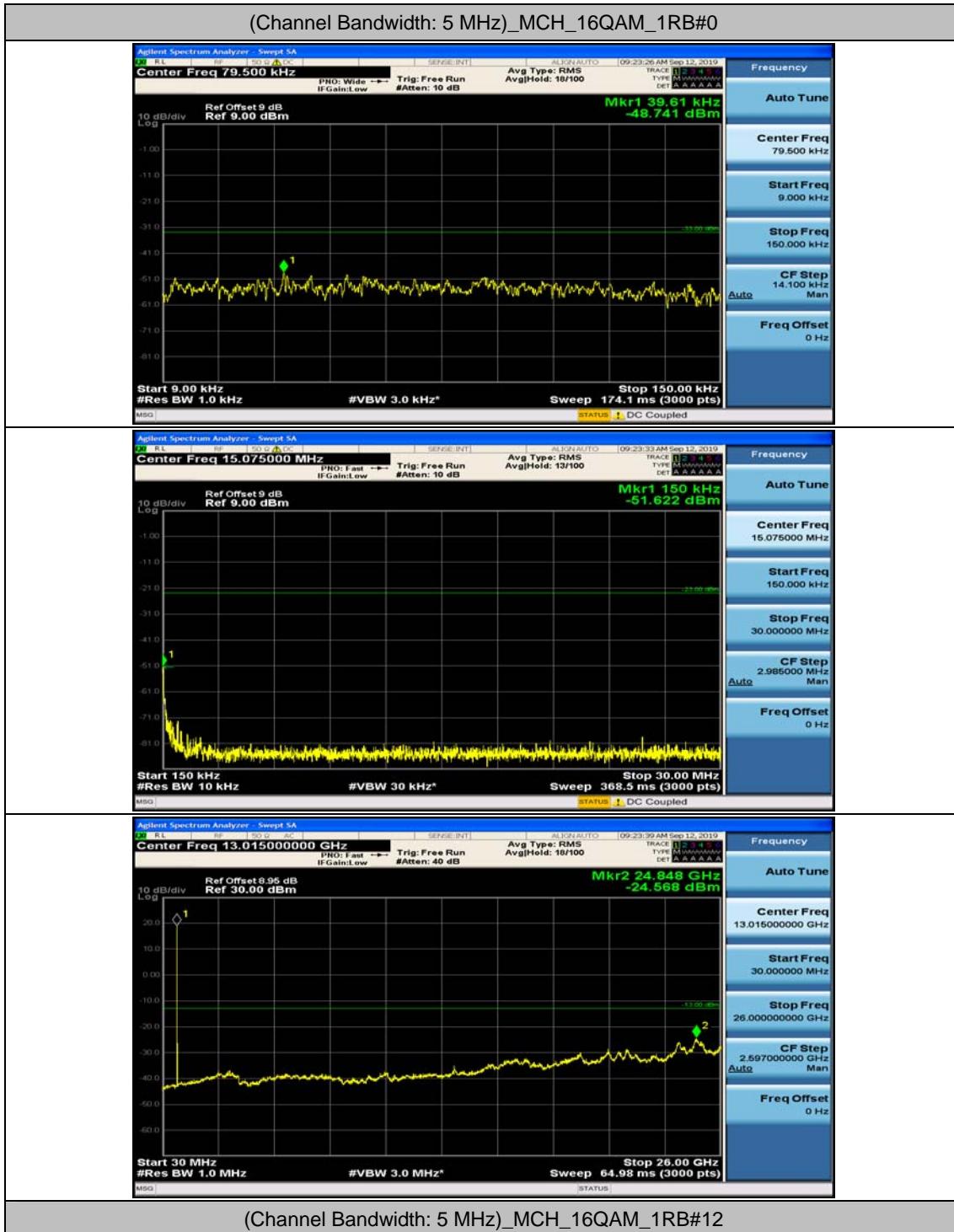


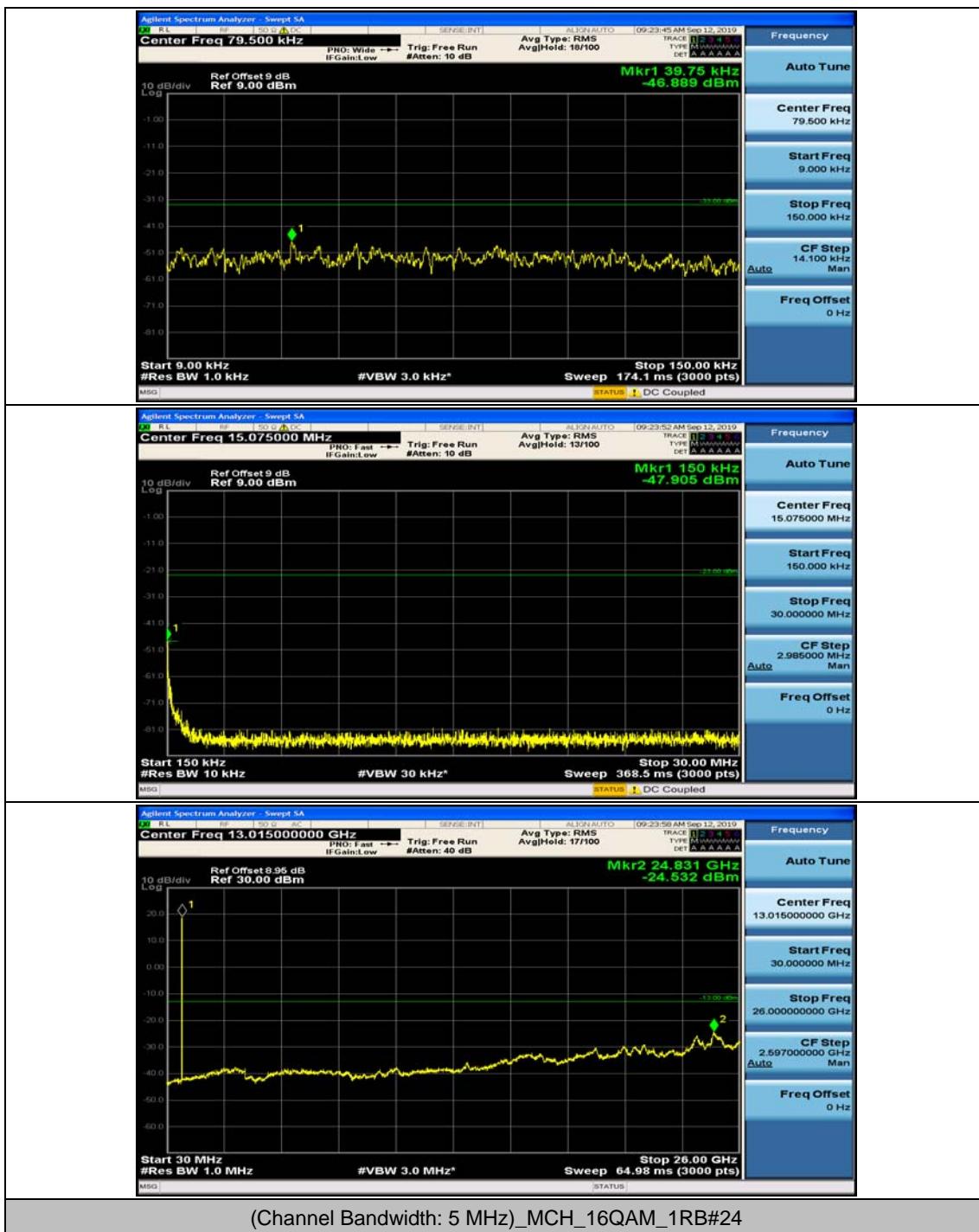


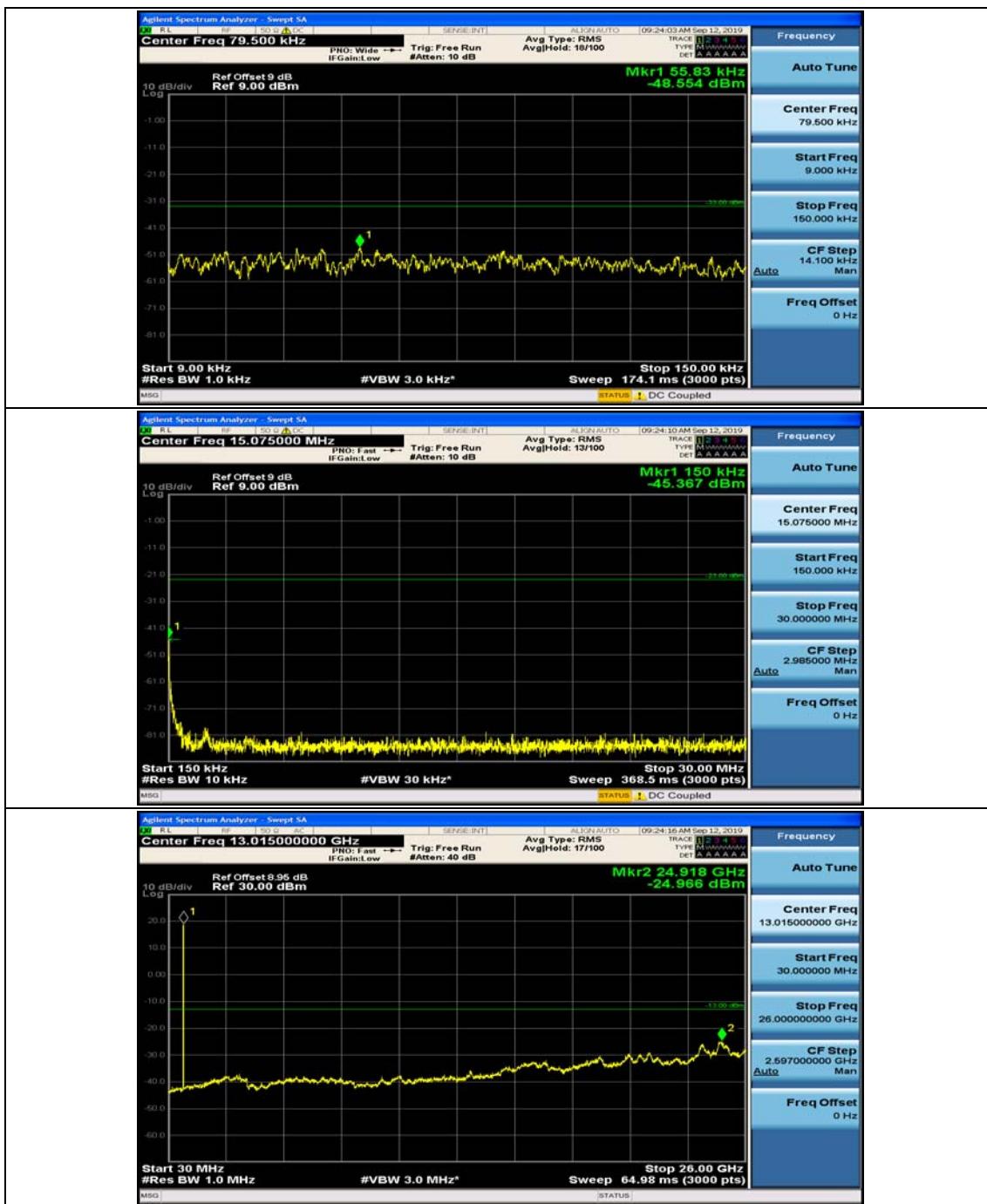


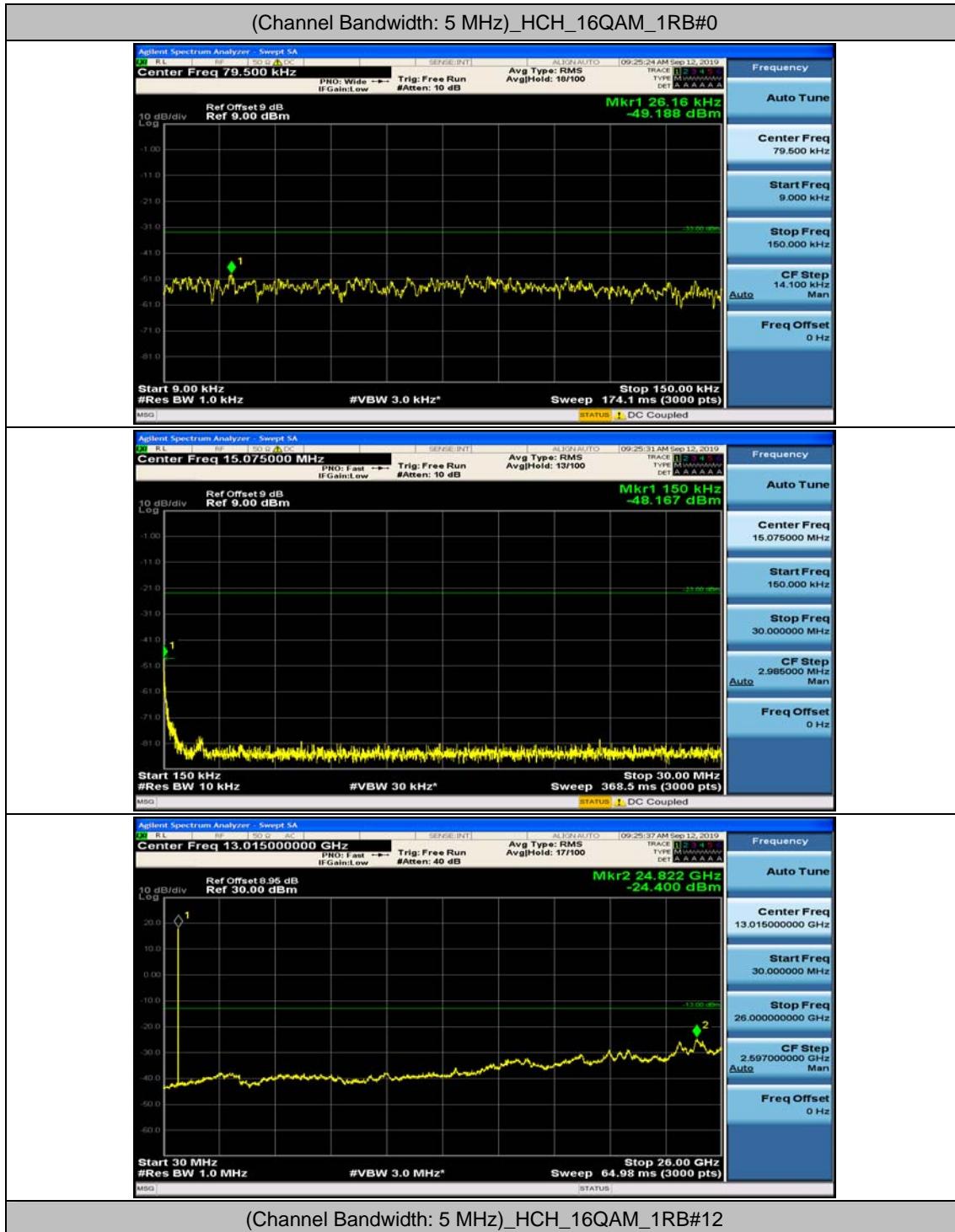


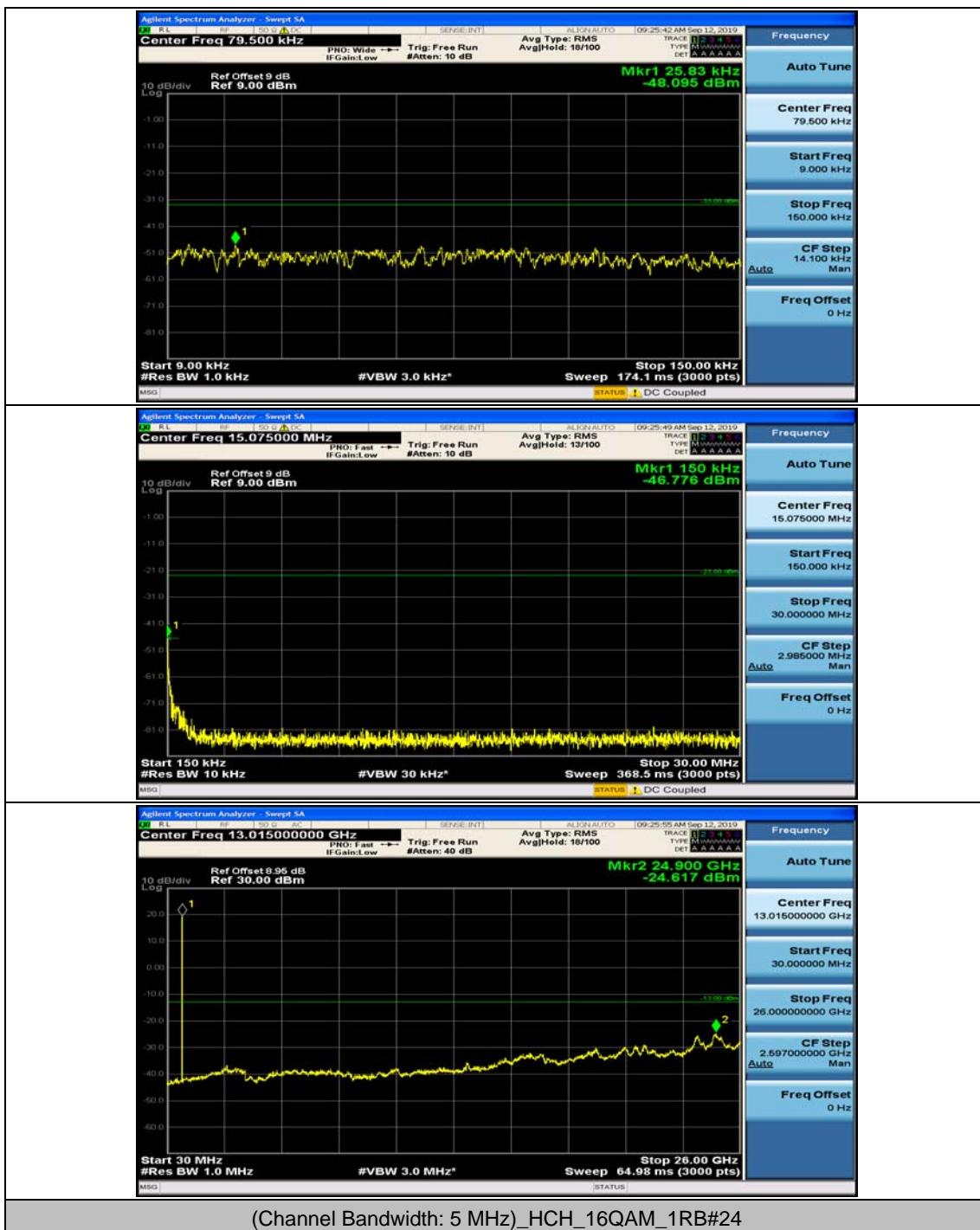


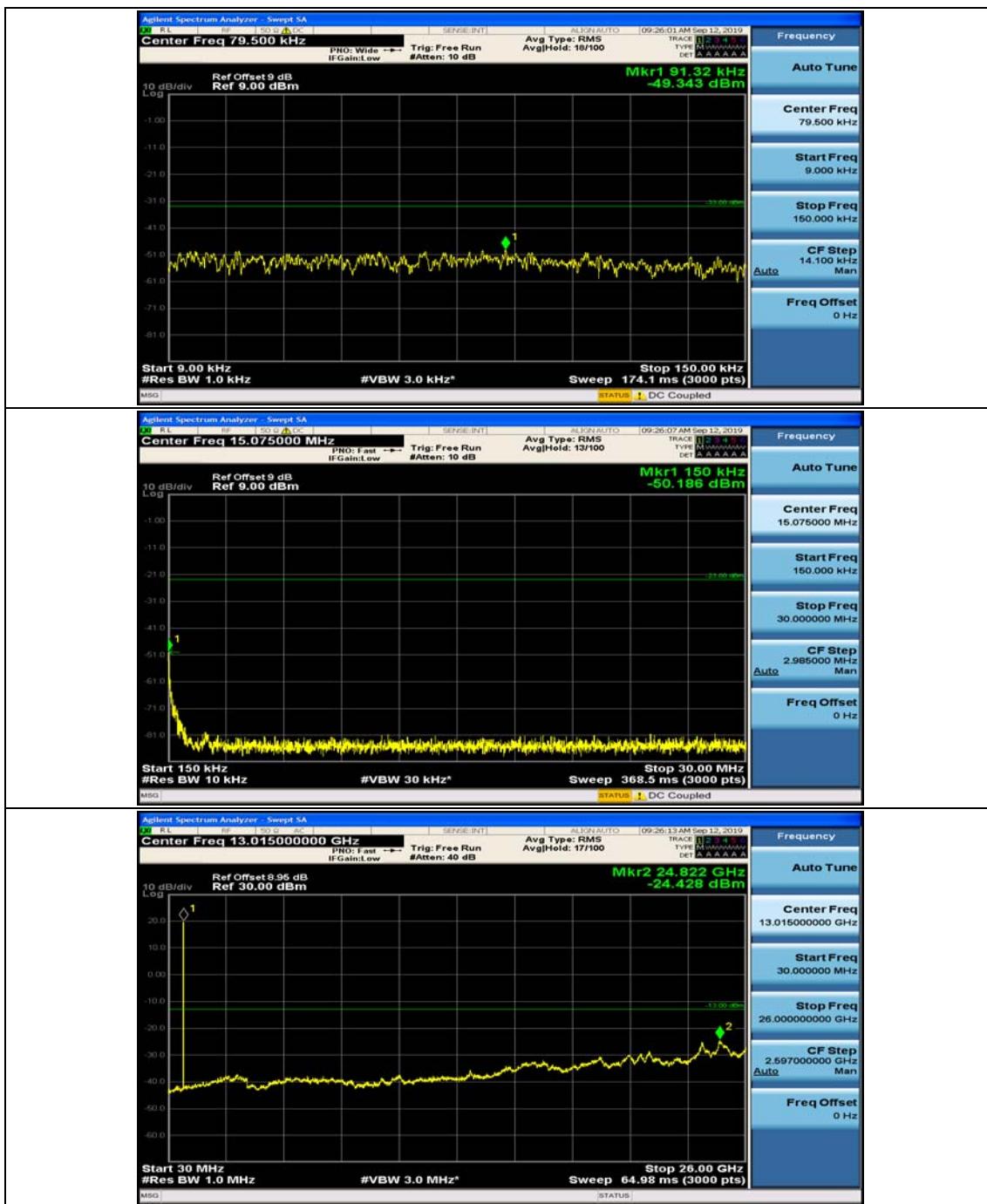




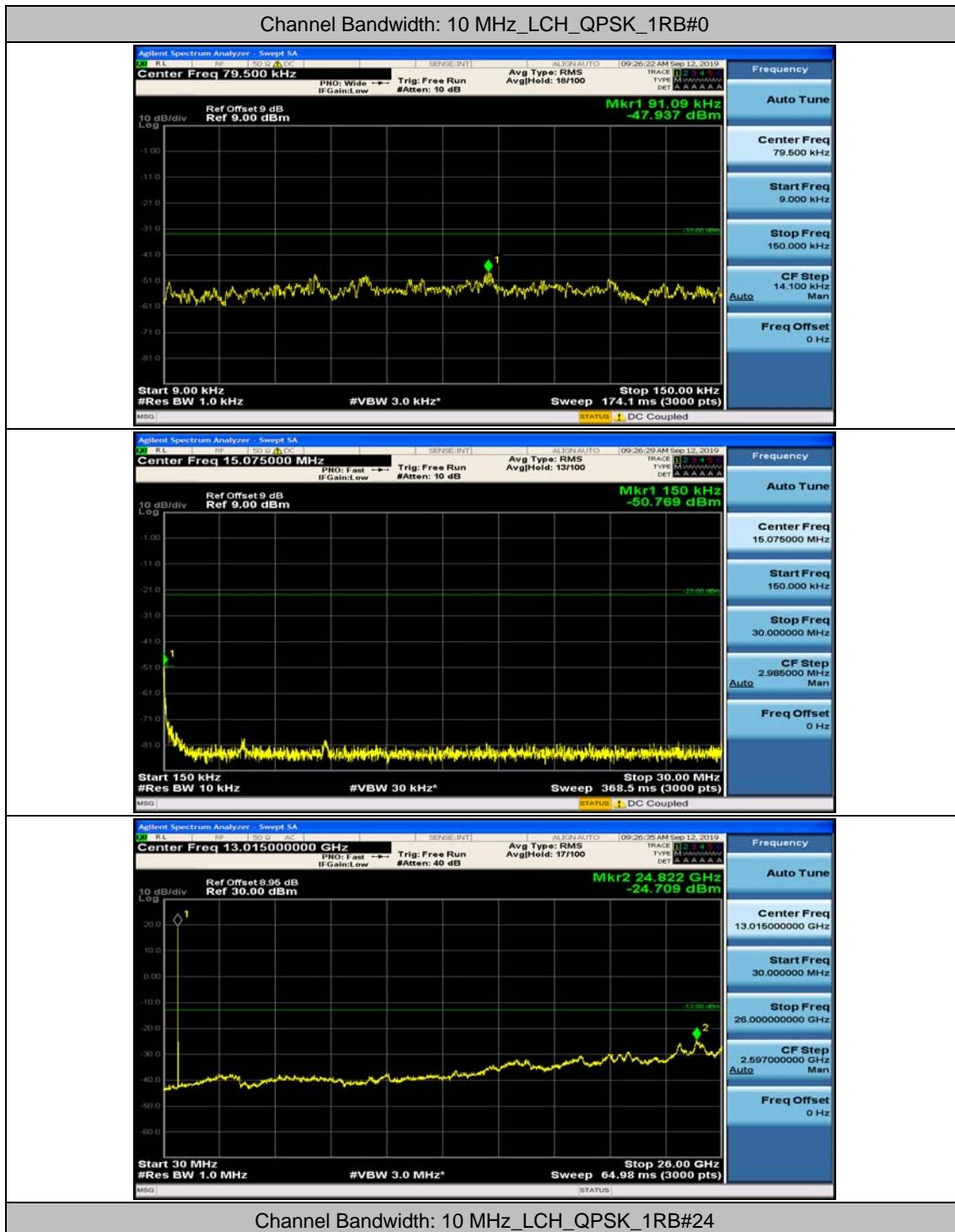


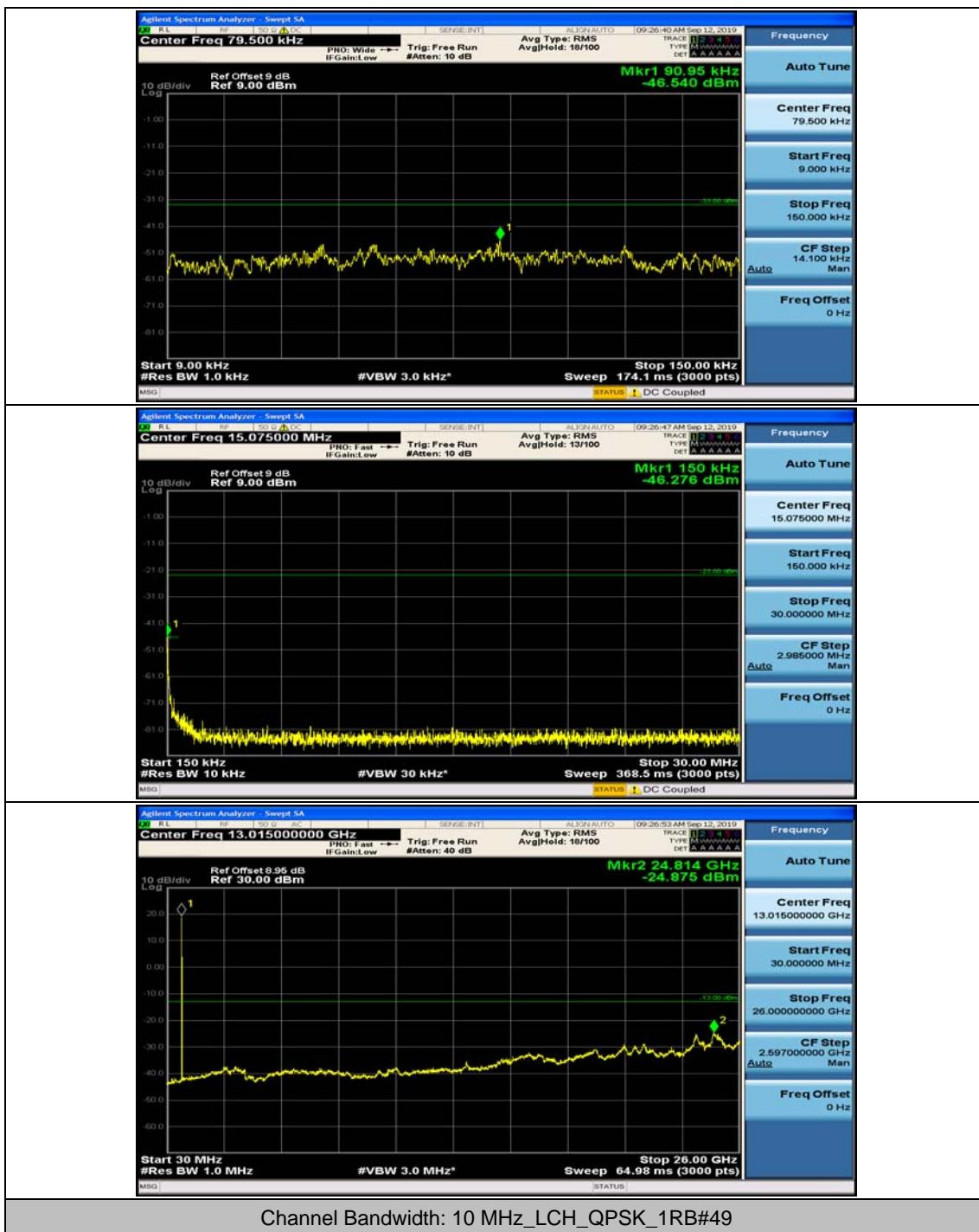


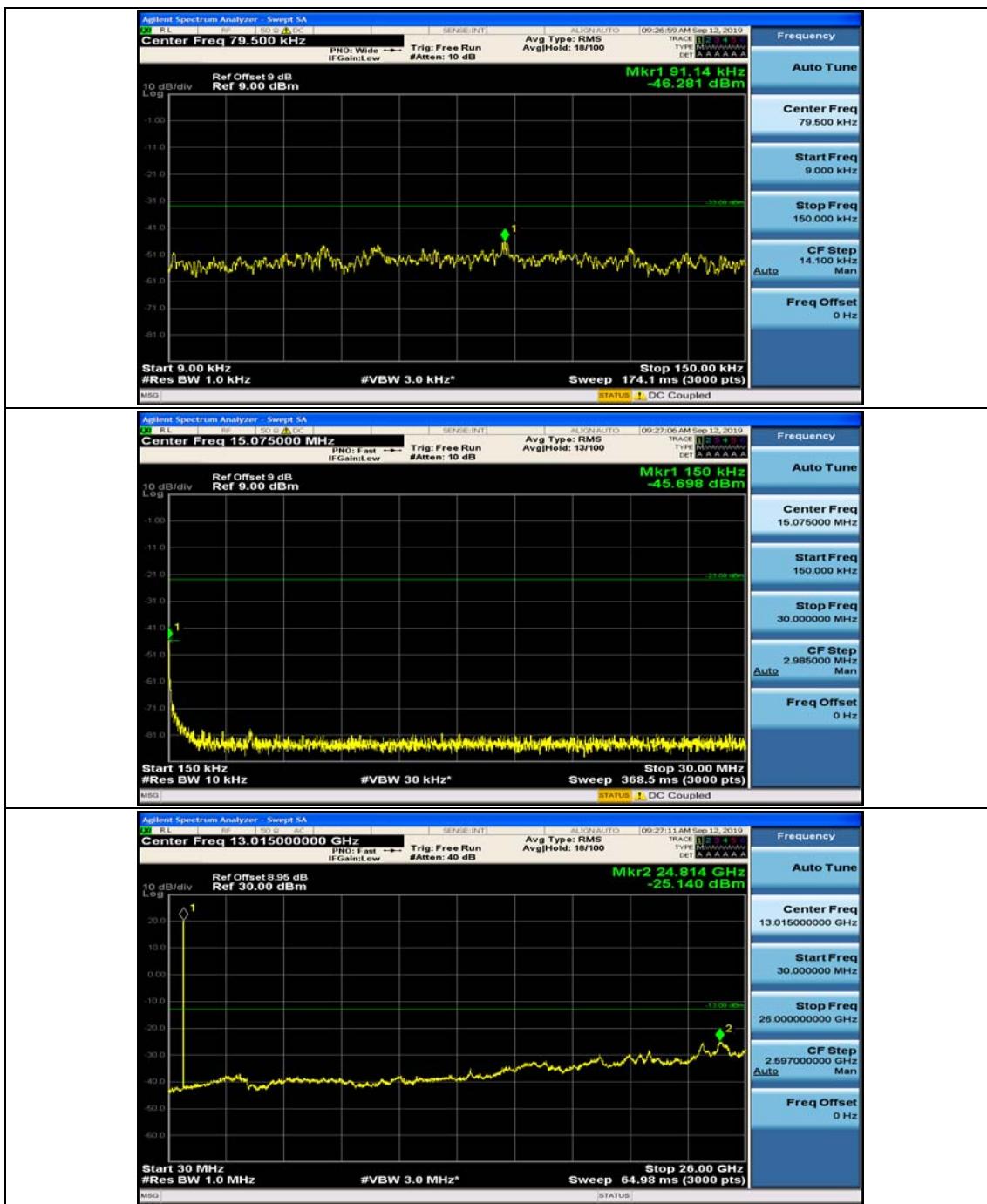


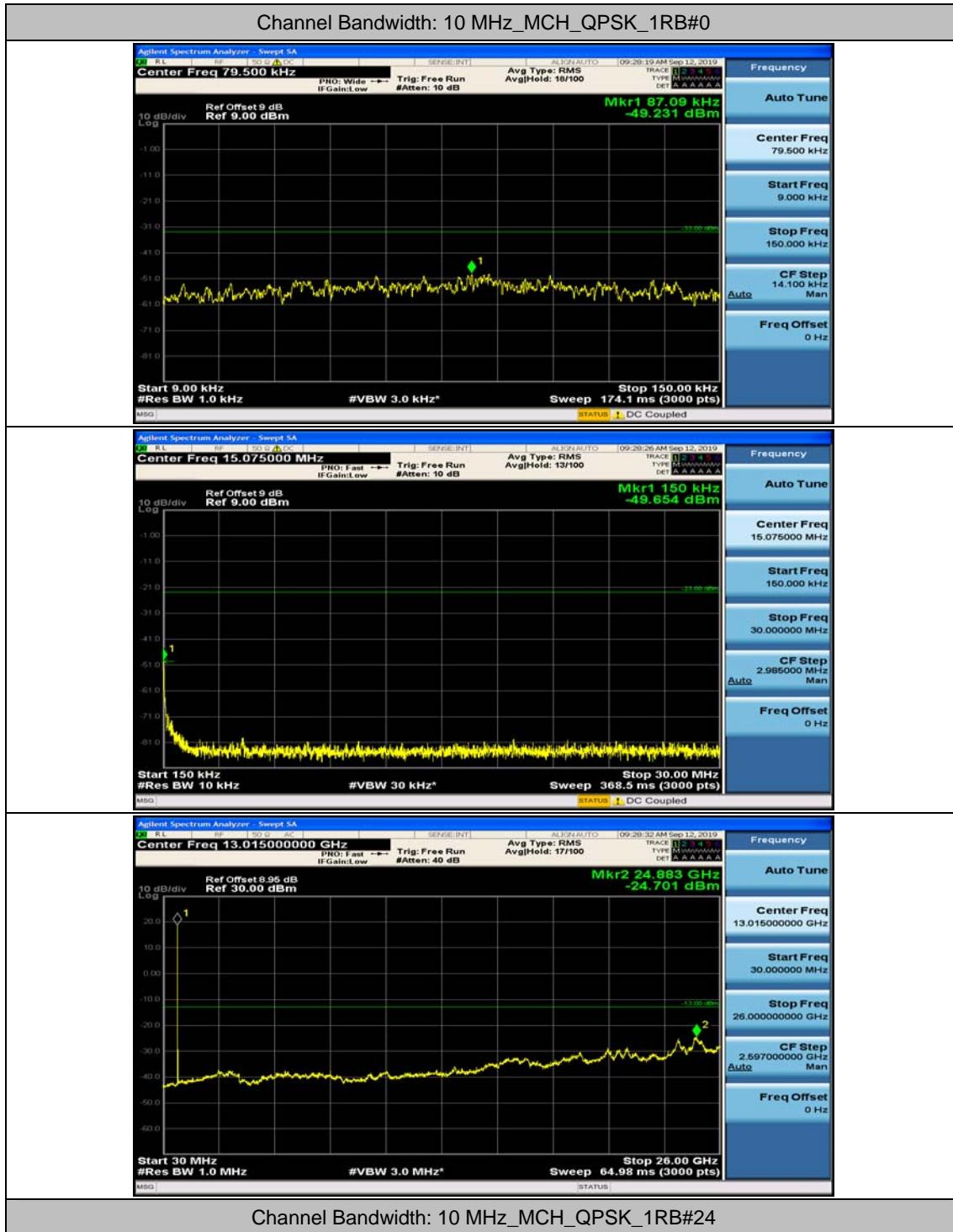


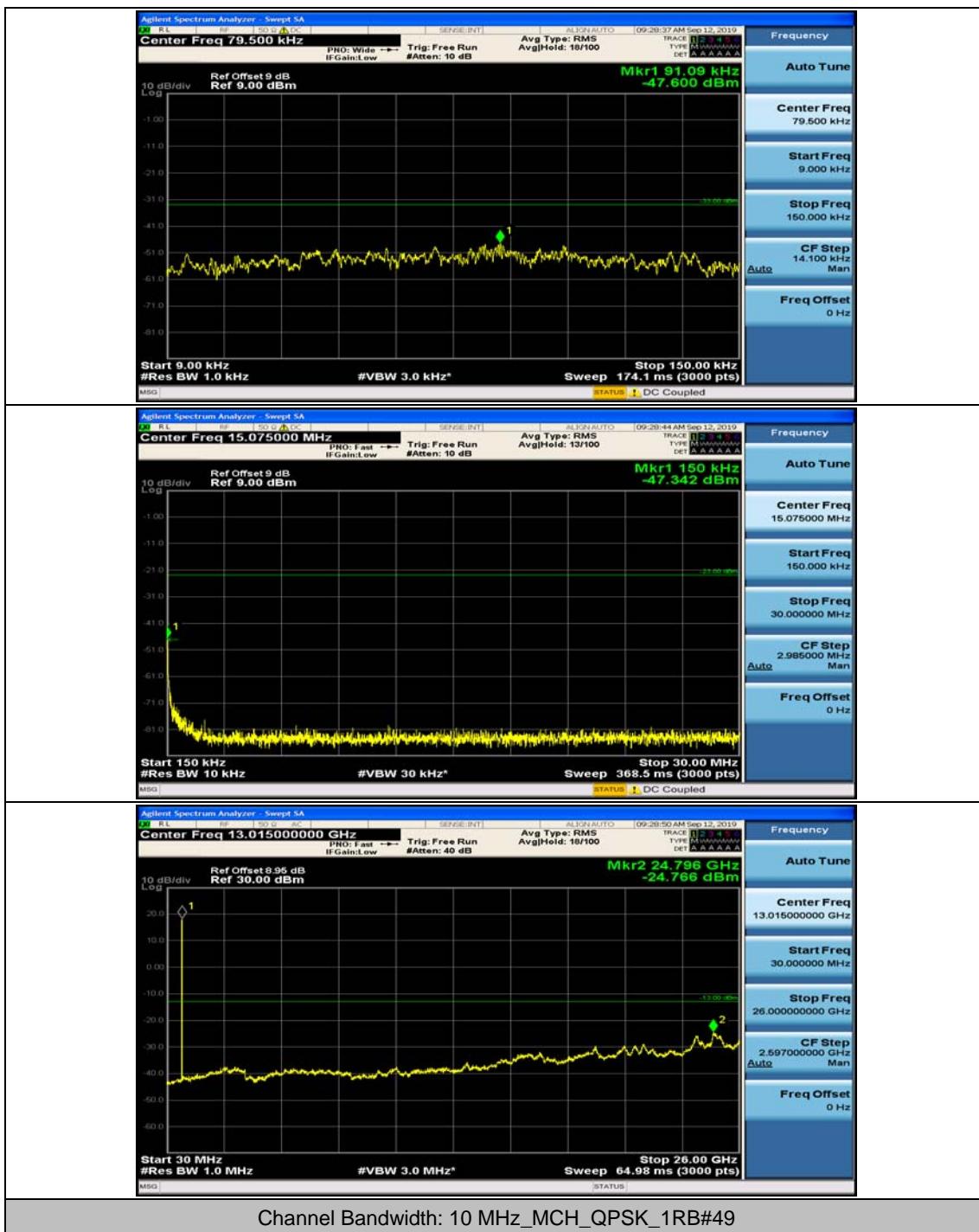
Channel Bandwidth: 10 MHz

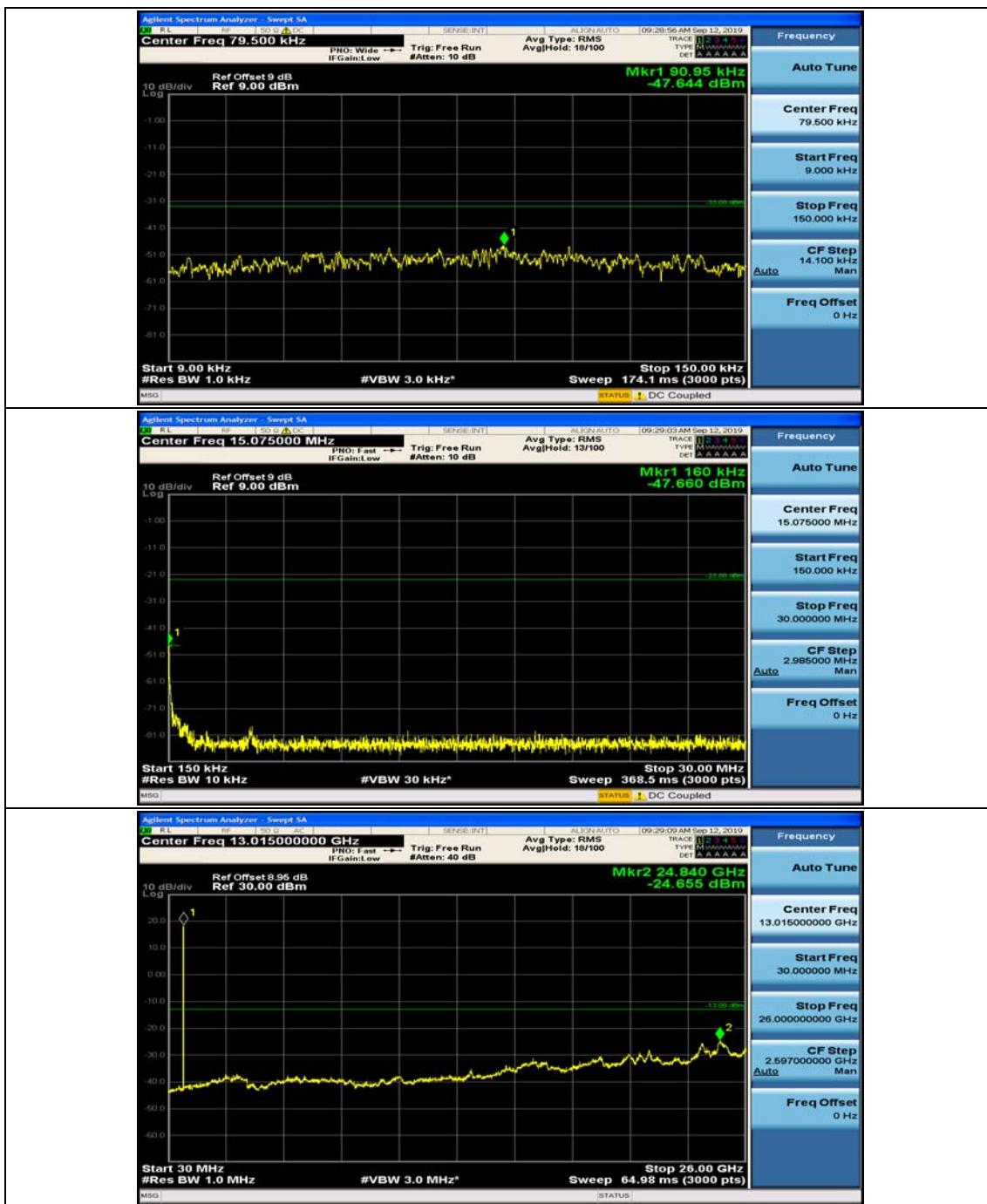


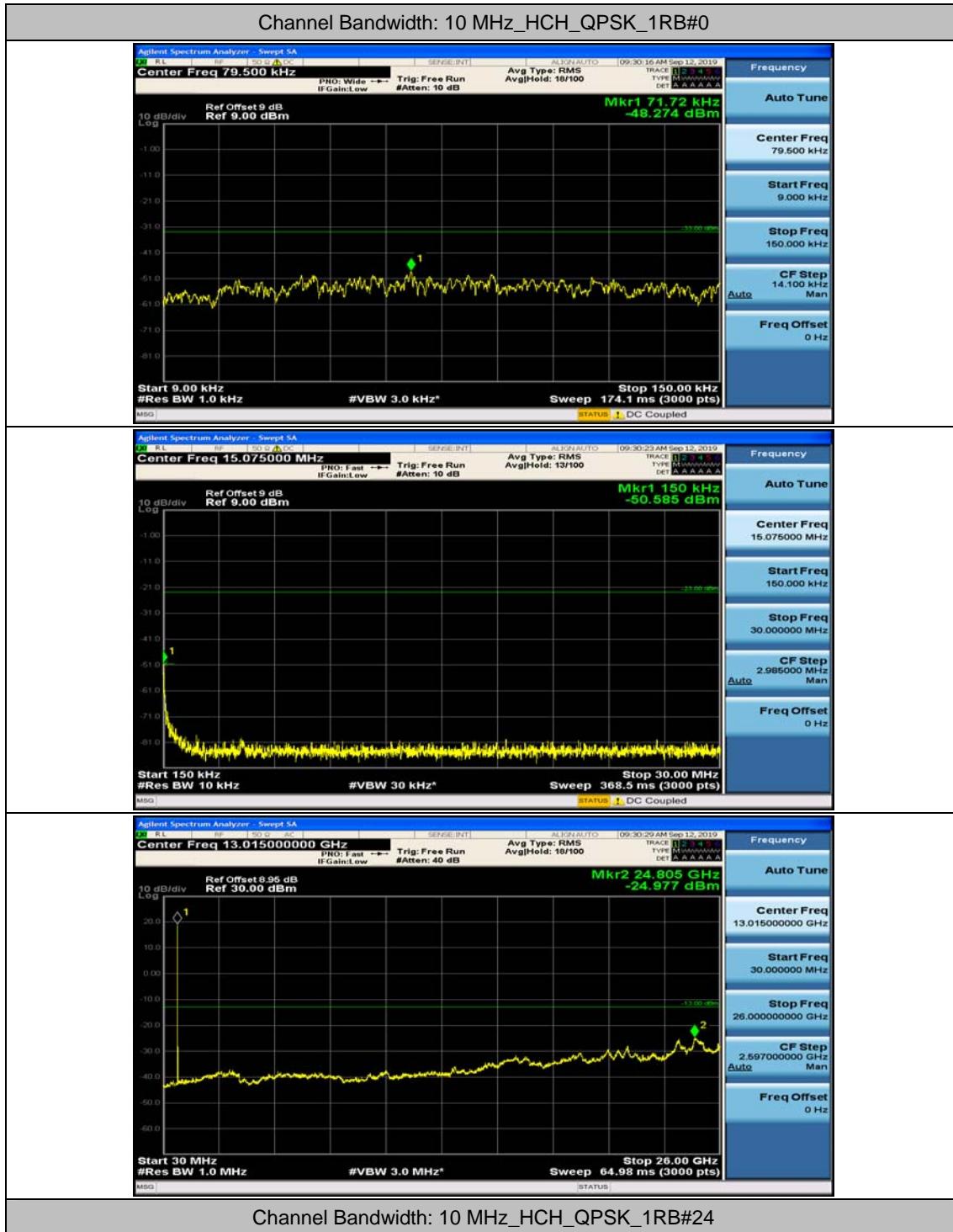


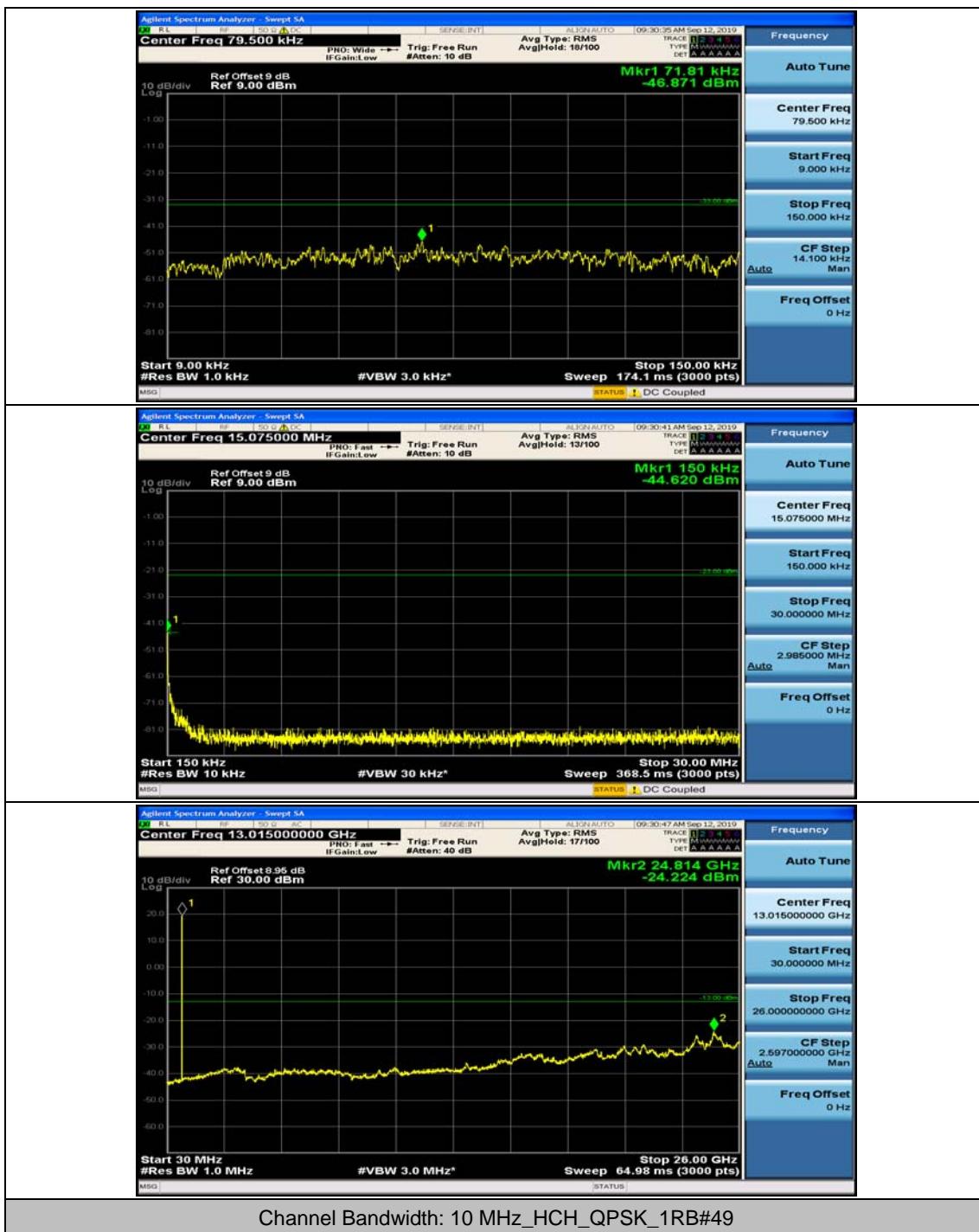


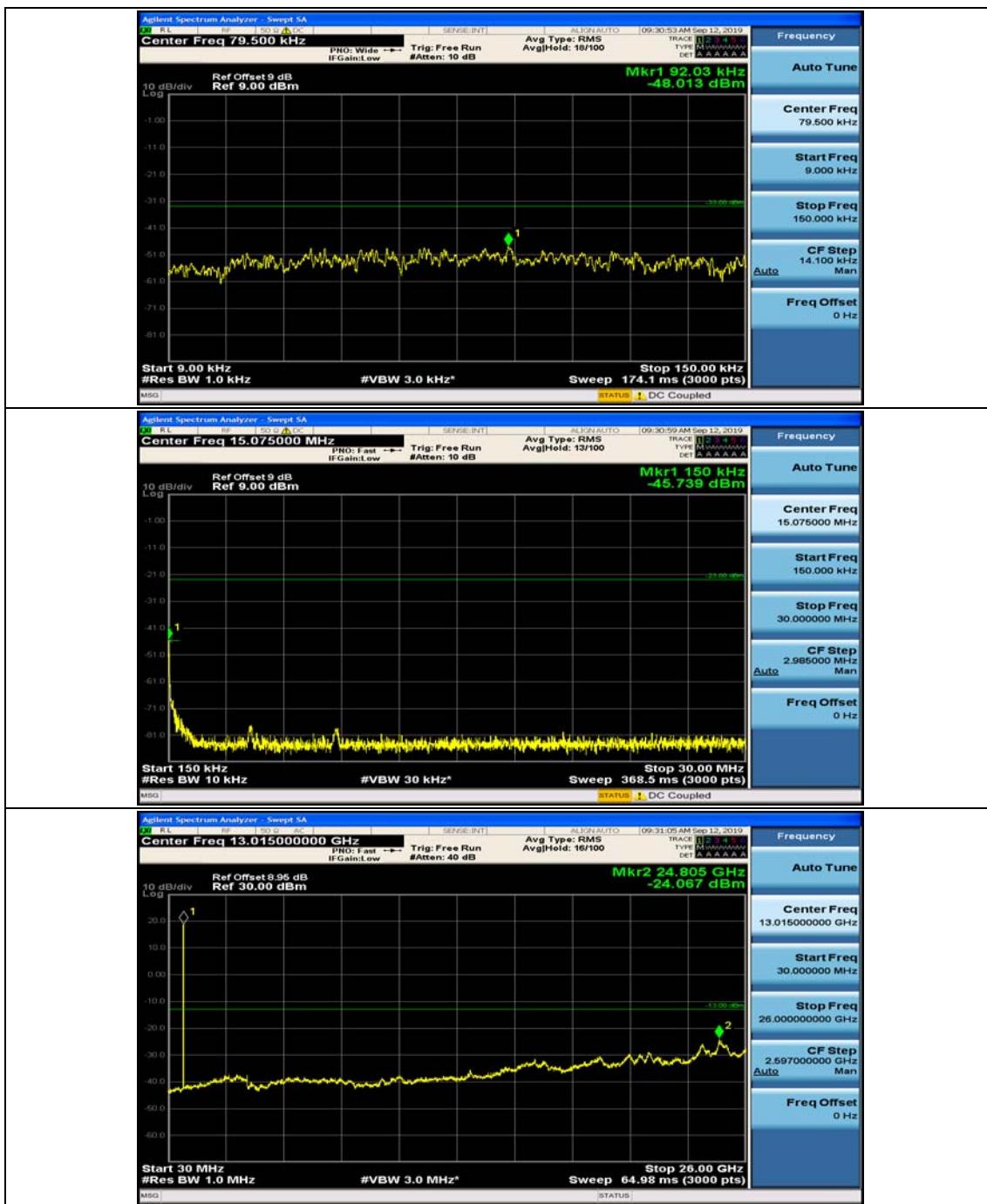


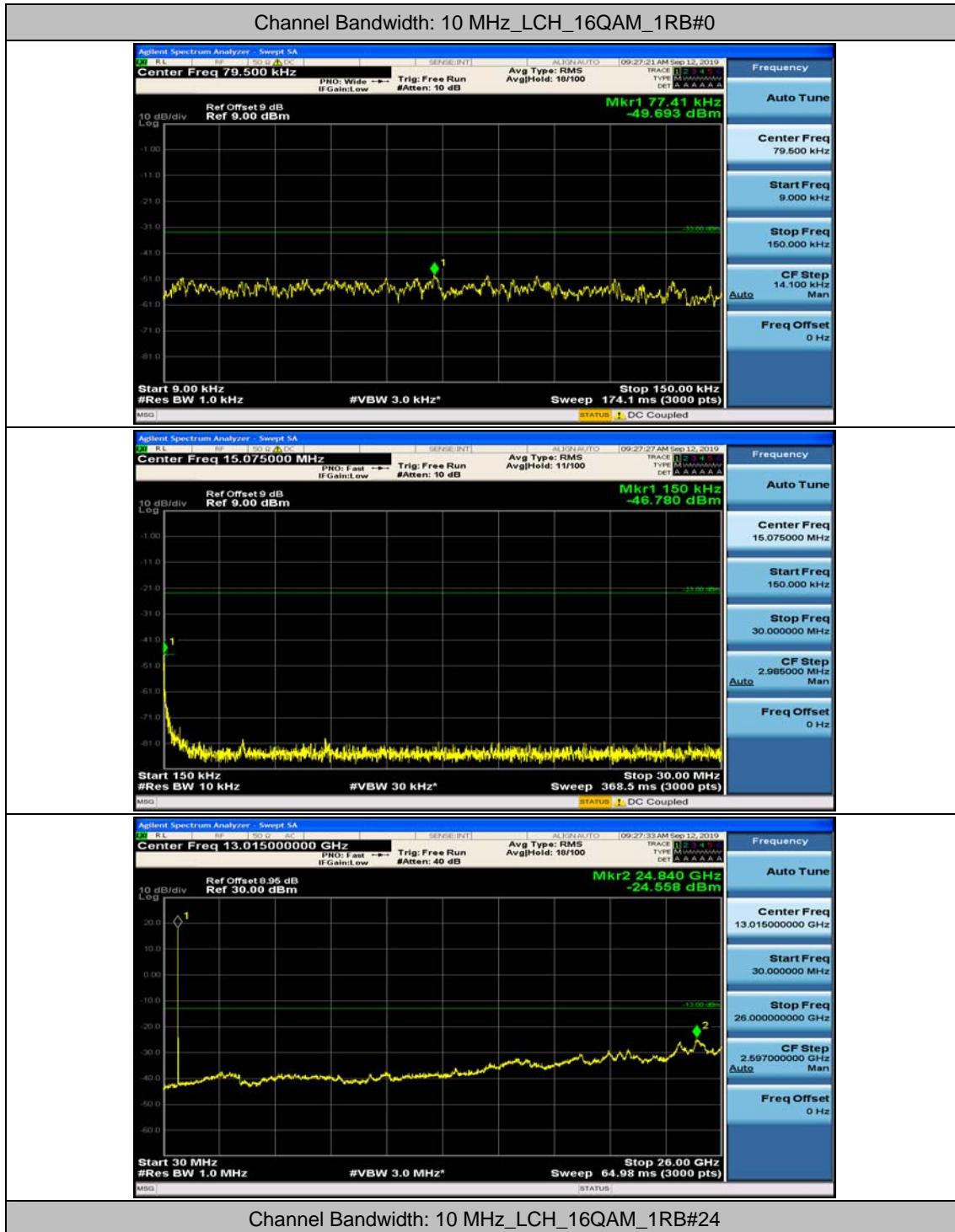


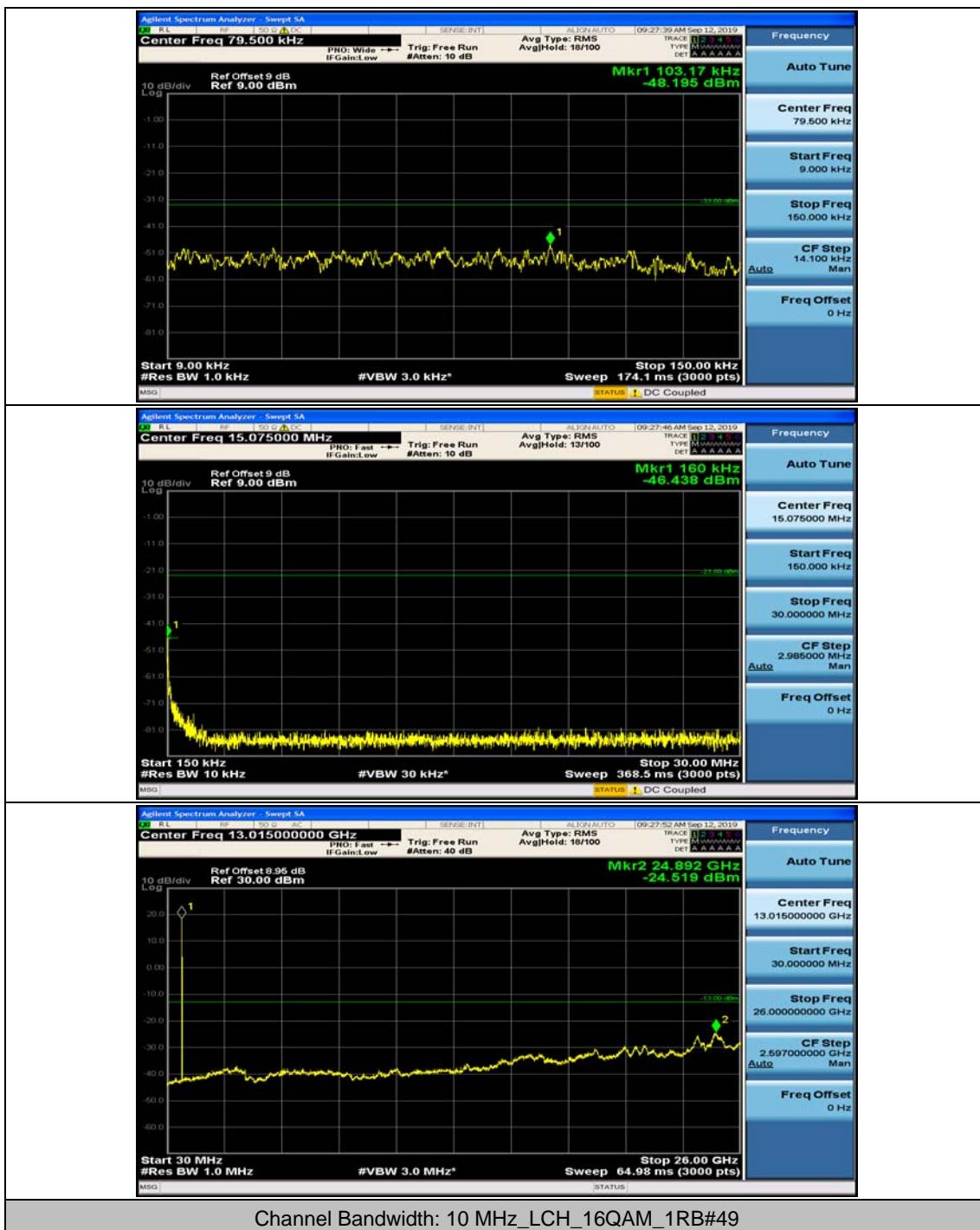


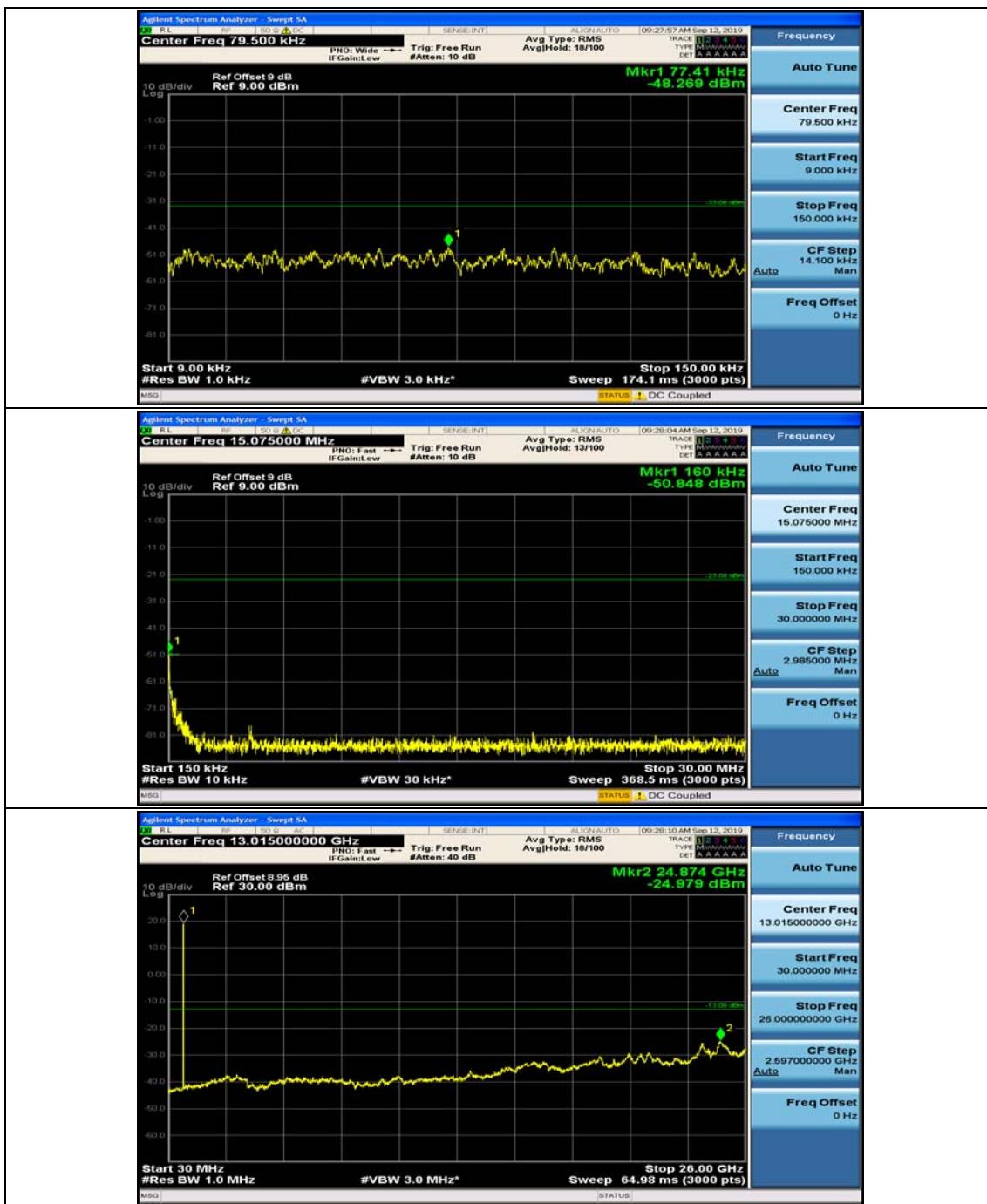


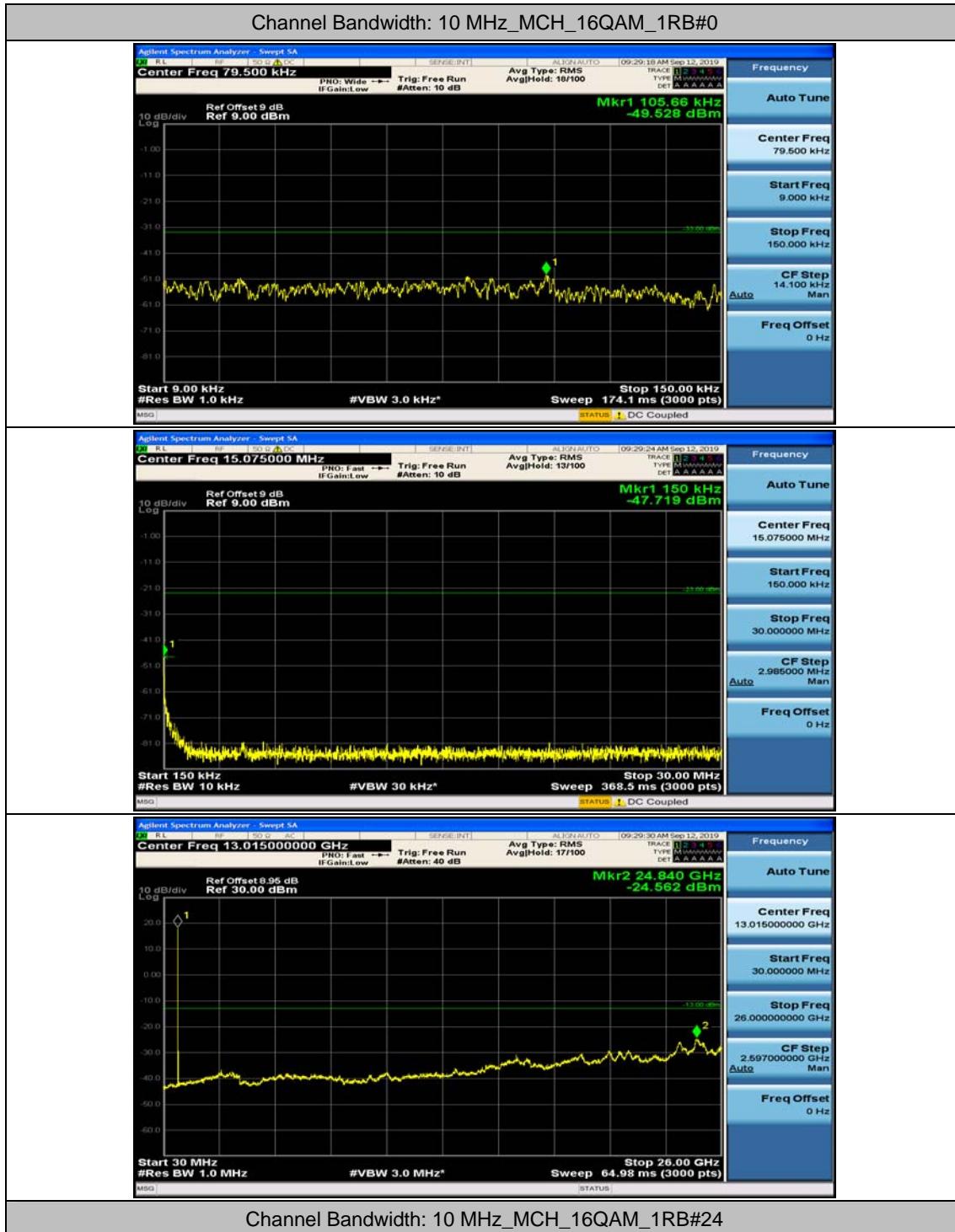


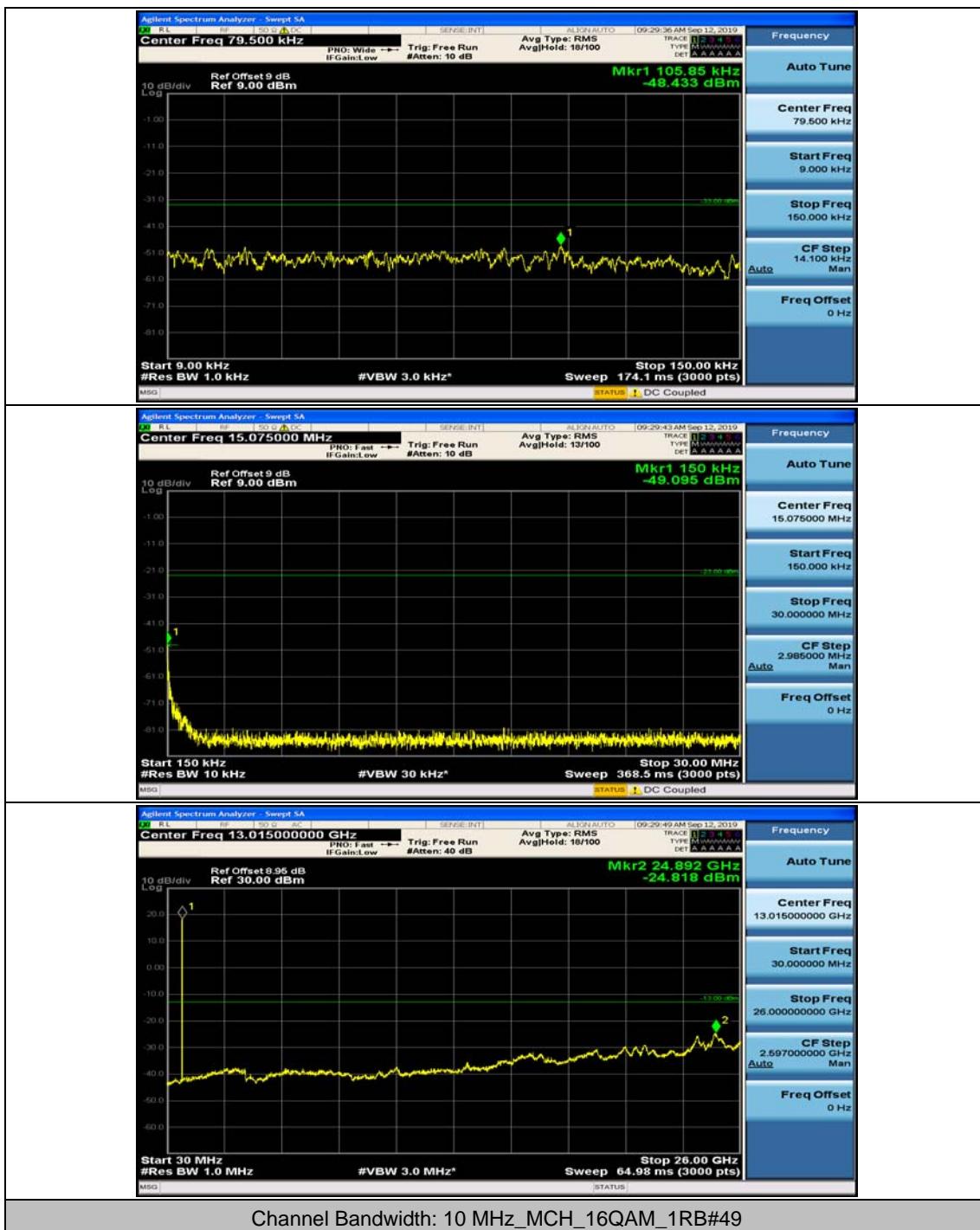


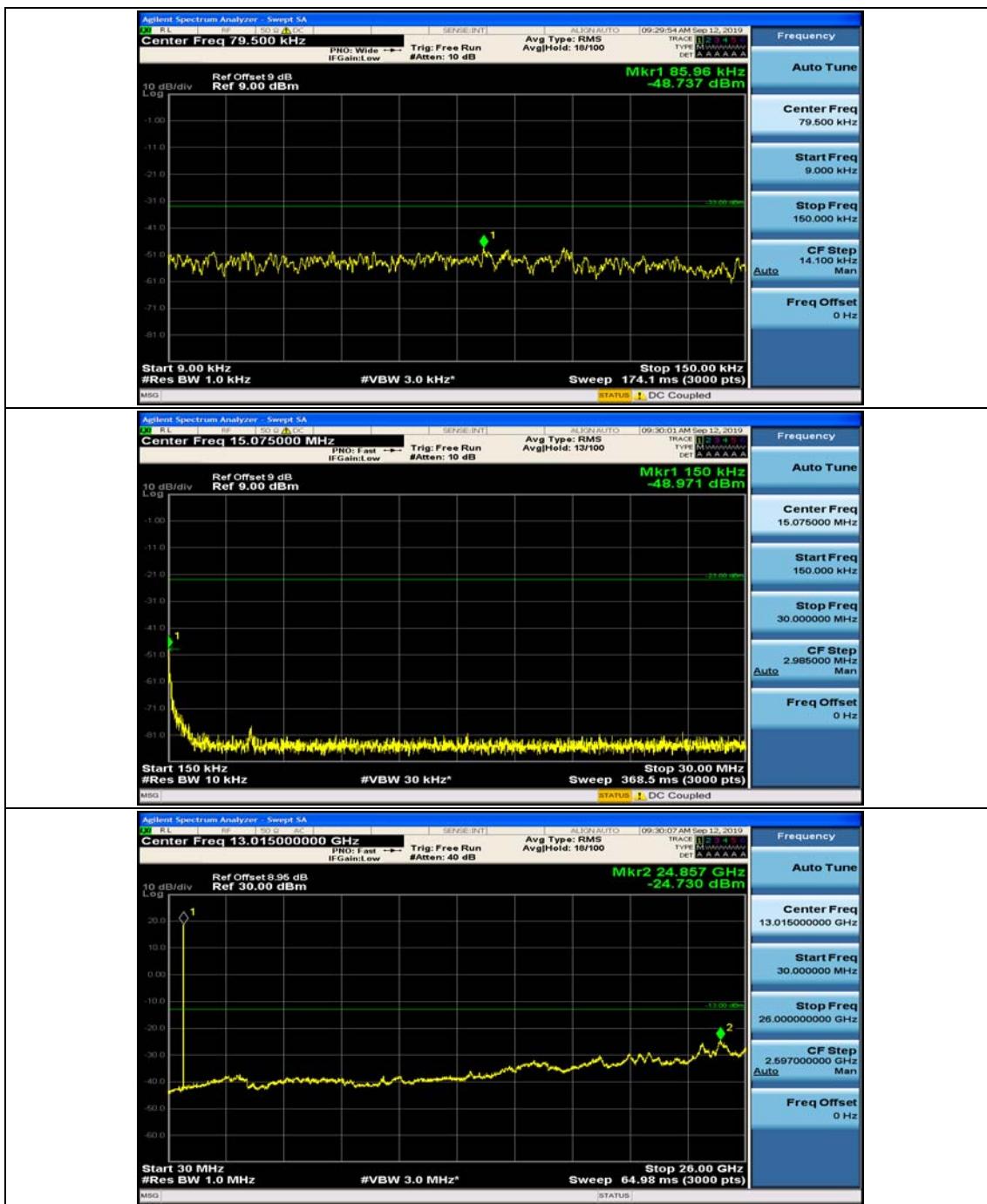


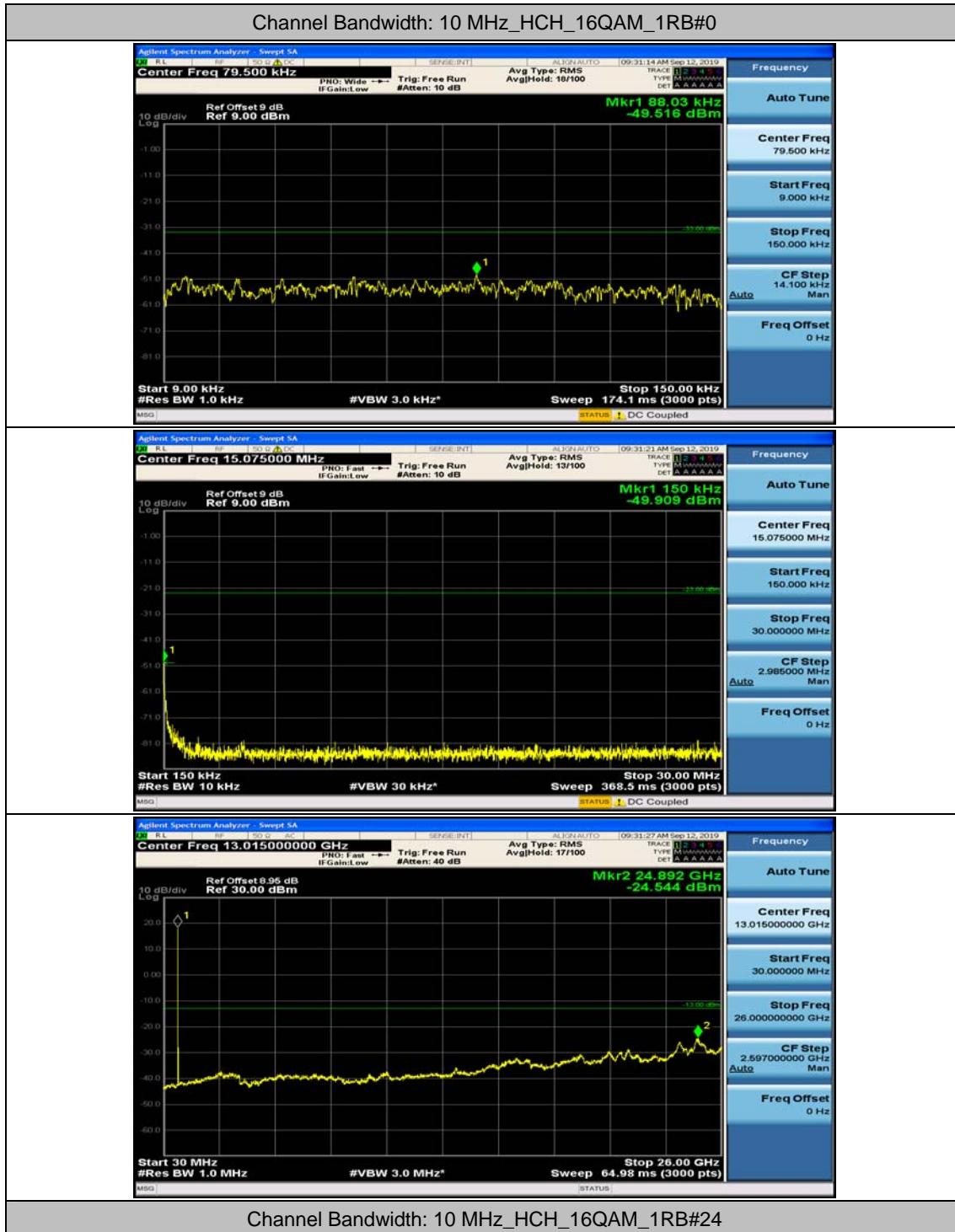


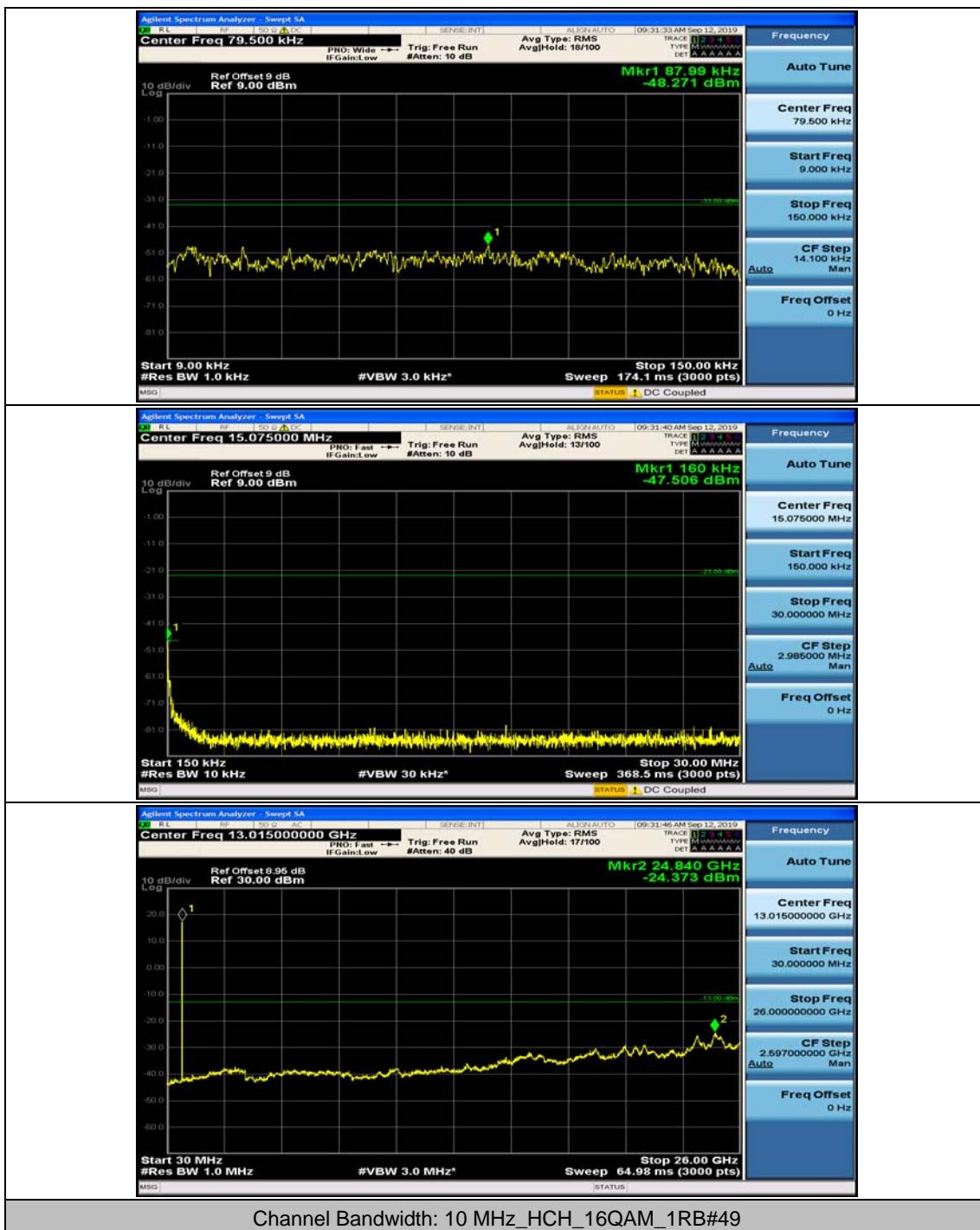


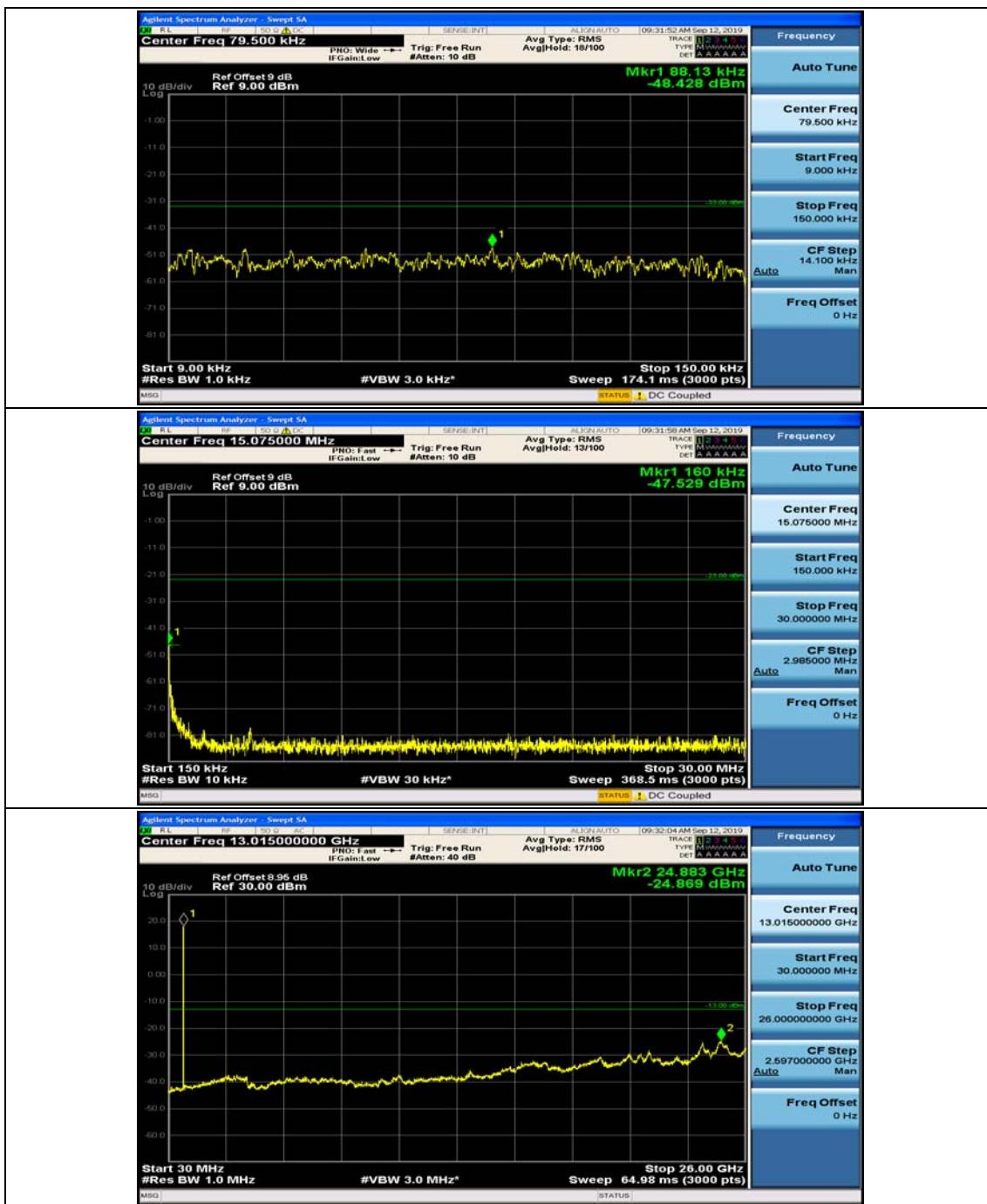












Appendix F: Frequency Stability

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	-0.11	-0.000156	± 2.5	PASS
		VN	TN	0.36	0.000510	± 2.5	PASS
		VH	TN	1.25	0.001769	± 2.5	PASS
	MCH	VL	TN	3.83	0.005394	± 2.5	PASS
		VN	TN	-1.82	-0.002563	± 2.5	PASS
		VH	TN	-0.58	-0.000817	± 2.5	PASS
	HCH	VL	TN	-1.21	-0.001696	± 2.5	PASS
		VN	TN	-0.87	-0.001219	± 2.5	PASS
		VH	TN	-0.63	-0.000883	± 2.5	PASS
16QAM	LCH	VL	TN	-0.94	-0.001331	± 2.5	PASS
		VN	TN	3.23	0.004572	± 2.5	PASS
		VH	TN	3.41	0.004827	± 2.5	PASS
	MCH	VL	TN	0.72	0.001014	± 2.5	PASS
		VN	TN	-1.09	-0.001535	± 2.5	PASS
		VH	TN	3.8	0.005352	± 2.5	PASS
	HCH	VL	TN	-1.85	-0.002593	± 2.5	PASS
		VN	TN	2.49	0.003490	± 2.5	PASS
		VH	TN	3.08	0.004317	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.07	0.000099	± 2.5	PASS
		VN	-20	1.91	0.002703	± 2.5	PASS
		VN	-10	2.85	0.004034	± 2.5	PASS
		VN	0	4.55	0.006440	± 2.5	PASS
		VN	10	3.24	0.004586	± 2.5	PASS
		VN	20	1.87	0.002647	± 2.5	PASS
		VN	30	3.78	0.005350	± 2.5	PASS
		VN	40	-0.13	-0.000184	± 2.5	PASS
		VN	50	1.8	0.002548	± 2.5	PASS
	MCH	VN	-30	3.21	0.004521	± 2.5	PASS
		VN	-20	0.34	0.000479	± 2.5	PASS

	HCH	VN	-10	3.3	0.004648	± 2.5	PASS
		VN	0	3.53	0.004972	± 2.5	PASS
		VN	10	-1.68	-0.002366	± 2.5	PASS
		VN	20	0.44	0.000620	± 2.5	PASS
		VN	30	-1.84	-0.002592	± 2.5	PASS
		VN	40	3.18	0.004479	± 2.5	PASS
		VN	50	-0.69	-0.000972	± 2.5	PASS
		VN	-30	-1.59	-0.002228	± 2.5	PASS
		VN	-20	1.41	0.001976	± 2.5	PASS
		VN	-10	4.07	0.005704	± 2.5	PASS
16QAM	LCH	VN	0	2.87	0.004022	± 2.5	PASS
		VN	10	3.29	0.004611	± 2.5	PASS
		VN	20	1.99	0.002789	± 2.5	PASS
		VN	30	2.18	0.003055	± 2.5	PASS
		VN	40	1.32	0.001850	± 2.5	PASS
		VN	50	-0.15	-0.000210	± 2.5	PASS
		VN	-30	2.91	0.004119	± 2.5	PASS
		VN	-20	-1.88	-0.002661	± 2.5	PASS
		VN	-10	0.77	0.001090	± 2.5	PASS
	MCH	VN	0	1.67	0.002364	± 2.5	PASS
		VN	10	2.08	0.002944	± 2.5	PASS
		VN	20	1.53	0.002166	± 2.5	PASS
		VN	30	2.02	0.002859	± 2.5	PASS
		VN	40	1.36	0.001925	± 2.5	PASS
		VN	50	4.87	0.006893	± 2.5	PASS
		VN	-30	-1.38	-0.001934	± 2.5	PASS
		VN	-20	-1.88	-0.002635	± 2.5	PASS
		VN	-10	3	0.004205	± 2.5	PASS
		VN	0	2.73	0.003826	± 2.5	PASS
	HCH	VN	10	2.06	0.002887	± 2.5	PASS
		VN	20	1.82	0.002551	± 2.5	PASS
		VN	30	-1.27	-0.001780	± 2.5	PASS
		VN	40	3.64	0.005102	± 2.5	PASS
		VN	50	-1.54	-0.002158	± 2.5	PASS
		VN	-30	4.83	0.006769	± 2.5	PASS
		VN	-20	-1.58	-0.002214	± 2.5	PASS

		VN	40	-1.77	-0.002481	± 2.5	PASS
		VN	50	-1.88	-0.002635	± 2.5	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	4.12	0.005811	± 2.5	PASS
		VN	TN	-1.78	-0.002511	± 2.5	PASS
		VH	TN	0.82	0.001157	± 2.5	PASS
	MCH	VL	TN	0.98	0.001380	± 2.5	PASS
		VN	TN	4.83	0.006803	± 2.5	PASS
		VH	TN	4.51	0.006352	± 2.5	PASS
	HCH	VL	TN	4.11	0.005781	± 2.5	PASS
		VN	TN	3.38	0.004754	± 2.5	PASS
		VH	TN	-1.38	-0.001941	± 2.5	PASS
16QAM	LCH	VL	TN	1.5	0.002116	± 2.5	PASS
		VN	TN	1.64	0.002313	± 2.5	PASS
		VH	TN	-0.75	-0.001058	± 2.5	PASS
	MCH	VL	TN	4.22	0.005944	± 2.5	PASS
		VN	TN	-1.5	-0.002113	± 2.5	PASS
		VH	TN	-0.3	-0.000423	± 2.5	PASS
	HCH	VL	TN	0.4	0.000563	± 2.5	PASS
		VN	TN	0.28	0.000394	± 2.5	PASS
		VH	TN	0.68	0.000956	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	0.69	0.000973	± 2.5	PASS
		VN	-20	1.41	0.001989	± 2.5	PASS
		VN	-10	1.25	0.001763	± 2.5	PASS
		VN	0	1.03	0.001453	± 2.5	PASS
		VN	10	2.22	0.003131	± 2.5	PASS
		VN	20	3.79	0.005346	± 2.5	PASS
		VN	30	1.66	0.002341	± 2.5	PASS
		VN	40	4.67	0.006587	± 2.5	PASS
		VN	50	-1.95	-0.002750	± 2.5	PASS
	MCH	VN	-30	2.92	0.004113	± 2.5	PASS
		VN	-20	-0.96	-0.001352	± 2.5	PASS
		VN	-10	-0.94	-0.001324	± 2.5	PASS

	HCH	VN	0	1.95	0.002746	± 2.5	PASS
		VN	10	2.72	0.003831	± 2.5	PASS
		VN	20	3.63	0.005113	± 2.5	PASS
		VN	30	3.08	0.004338	± 2.5	PASS
		VN	40	0.12	0.000169	± 2.5	PASS
		VN	50	3.22	0.004535	± 2.5	PASS
		VN	-30	1.71	0.002405	± 2.5	PASS
		VN	-20	-0.49	-0.000689	± 2.5	PASS
		VN	-10	-1.66	-0.002335	± 2.5	PASS
		VN	0	2.82	0.003966	± 2.5	PASS
		VN	10	-1.44	-0.002025	± 2.5	PASS
		VN	20	3.05	0.004290	± 2.5	PASS
		VN	30	-0.56	-0.000788	± 2.5	PASS
		VN	40	-0.42	-0.000591	± 2.5	PASS
		VN	50	1.45	0.002039	± 2.5	PASS
QPSK	LCH	VN	-30	3.8	0.005352	± 2.5	PASS
		VN	-20	4.5	0.006338	± 2.5	PASS
		VN	-10	2.64	0.003718	± 2.5	PASS
		VN	0	2.17	0.003056	± 2.5	PASS
		VN	10	1.29	0.001817	± 2.5	PASS
		VN	20	2.5	0.003521	± 2.5	PASS
		VN	30	2.36	0.003324	± 2.5	PASS
		VN	40	0.5	0.000704	± 2.5	PASS
		VN	50	2.1	0.002958	± 2.5	PASS
	MCH	VN	-30	4.9	0.006892	± 2.5	PASS
		VN	-20	0.79	0.001111	± 2.5	PASS
		VN	-10	0.27	0.000380	± 2.5	PASS
		VN	0	0.56	0.000788	± 2.5	PASS
		VN	10	-0.42	-0.000591	± 2.5	PASS
		VN	20	-1.8	-0.002532	± 2.5	PASS
		VN	30	-1.8	-0.002532	± 2.5	PASS
		VN	40	-0.41	-0.000577	± 2.5	PASS
		VN	50	2.97	0.004177	± 2.5	PASS
	HCH	VN	-30	-0.37	-0.000520	± 2.5	PASS
		VN	-20	4.38	0.006160	± 2.5	PASS
		VN	-10	1.32	0.001857	± 2.5	PASS
		VN	0	0.76	0.001069	± 2.5	PASS
		VN	10	2.29	0.003221	± 2.5	PASS
		VN	20	-1.04	-0.001463	± 2.5	PASS
		VN	30	0.89	0.001252	± 2.5	PASS
		VN	40	-1.15	-0.001617	± 2.5	PASS



Model: CS22XA

		VN	50	1.18	0.001660	± 2.5	PASS
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