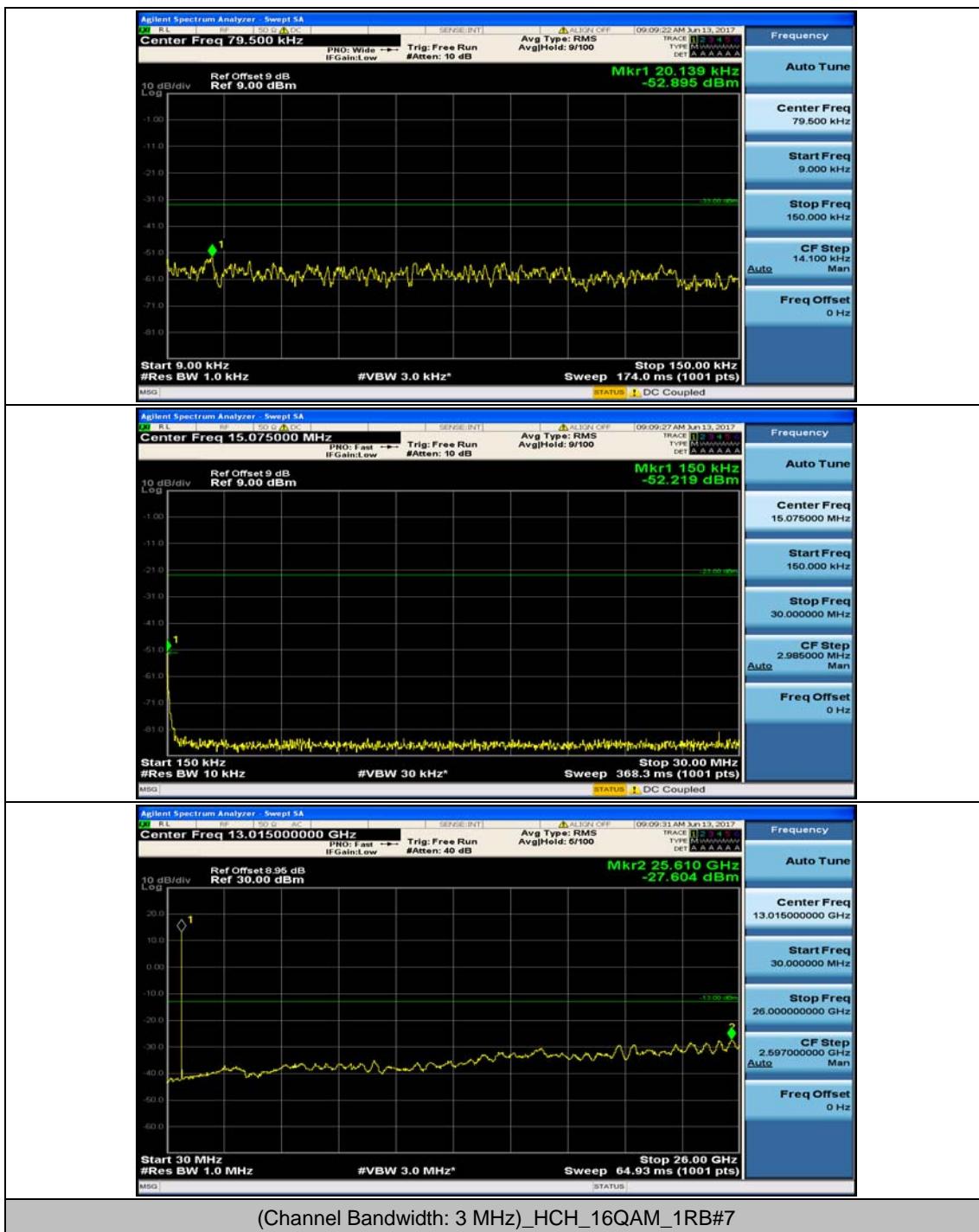
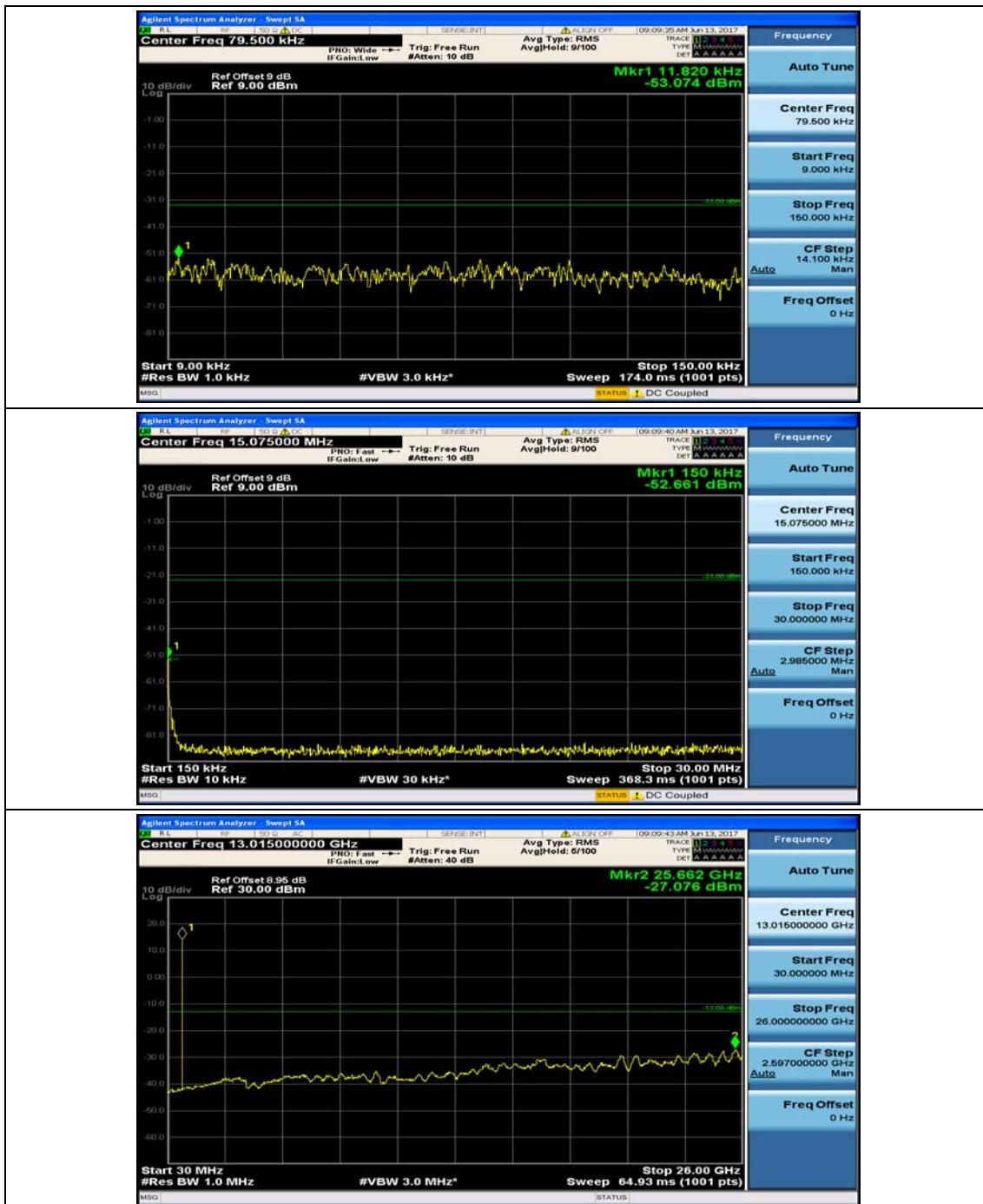
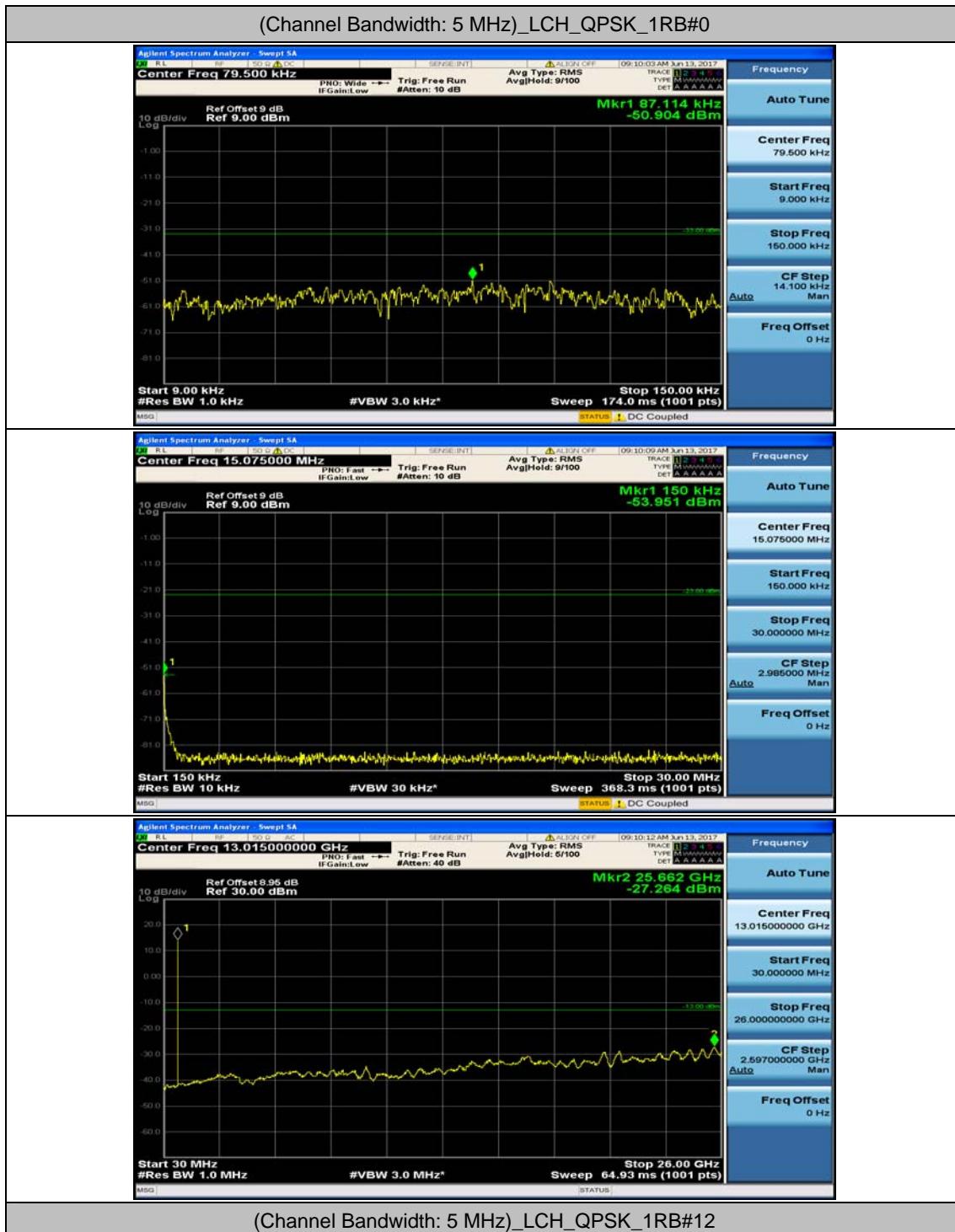


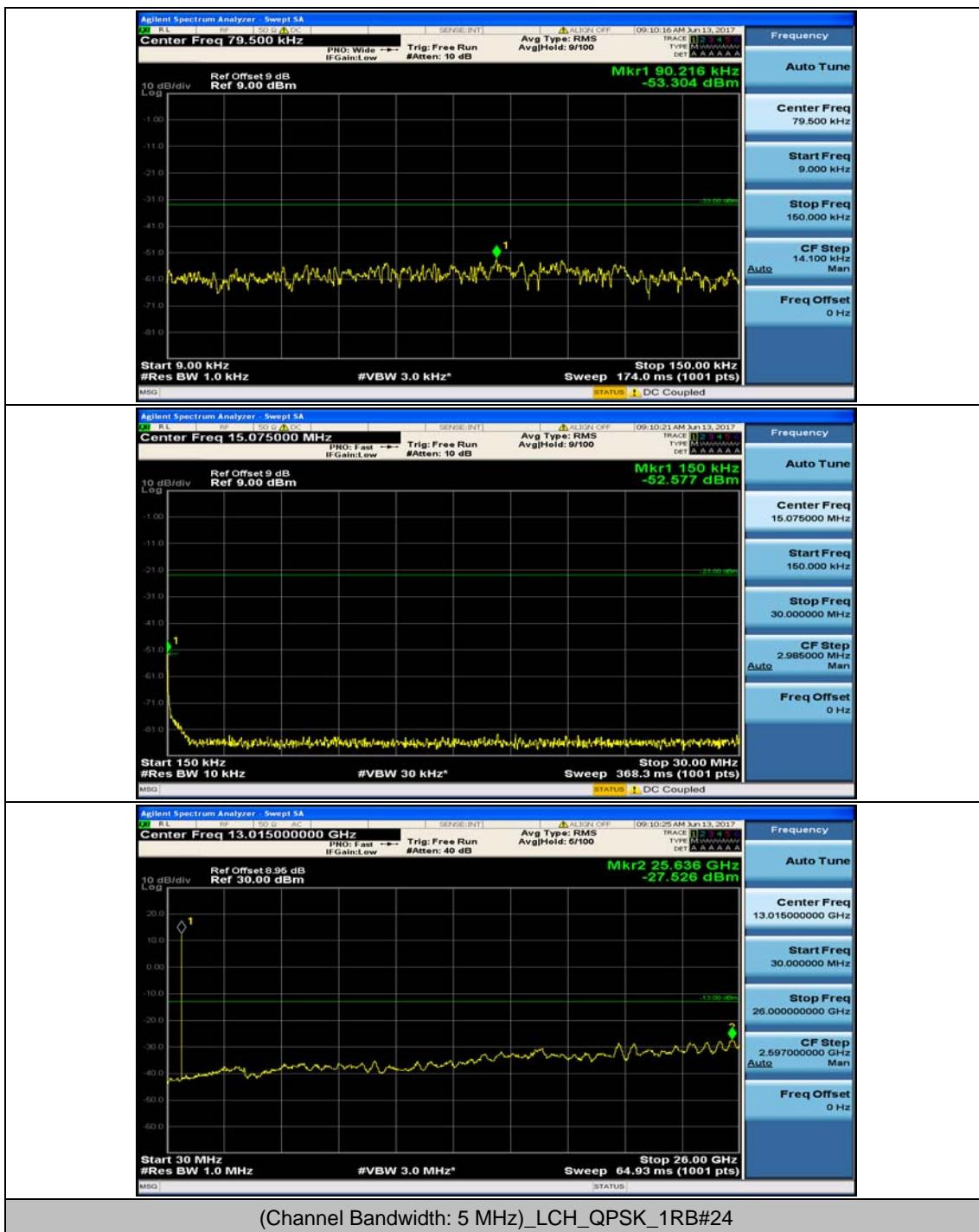
(Channel Bandwidth: 3 MHz)\_HCH\_16QAM\_1RB#0

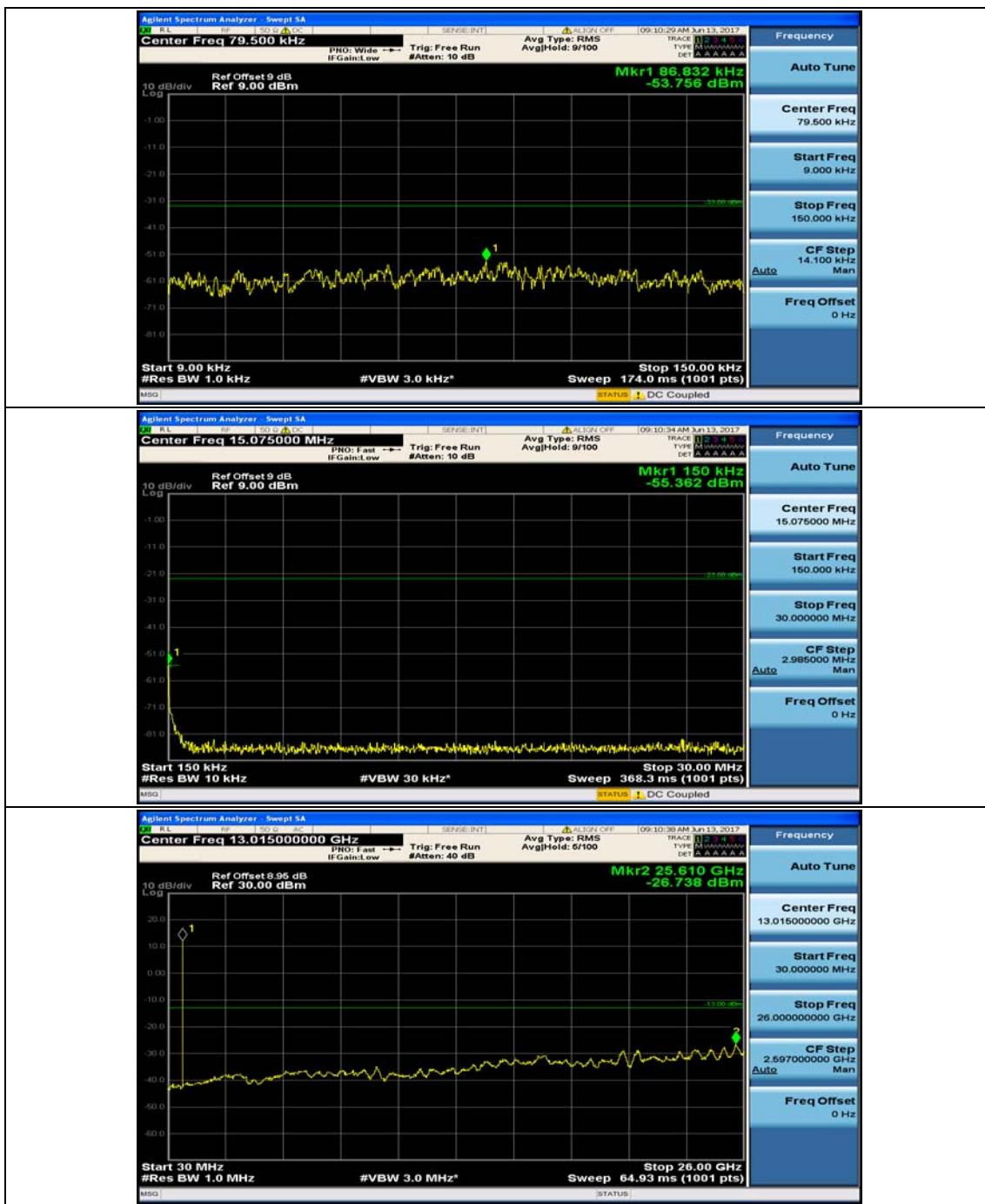




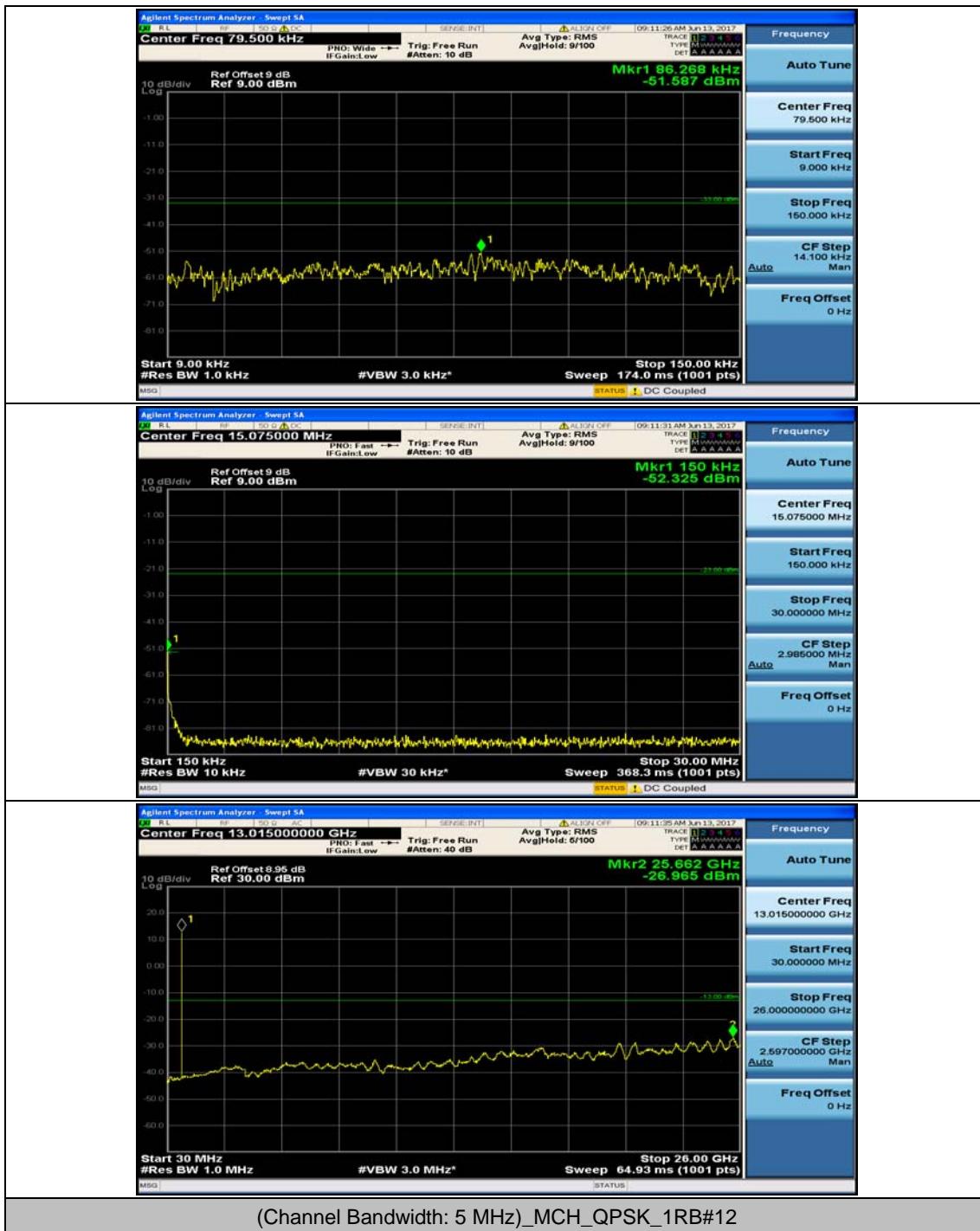
## Channel Bandwidth: 5 MHz

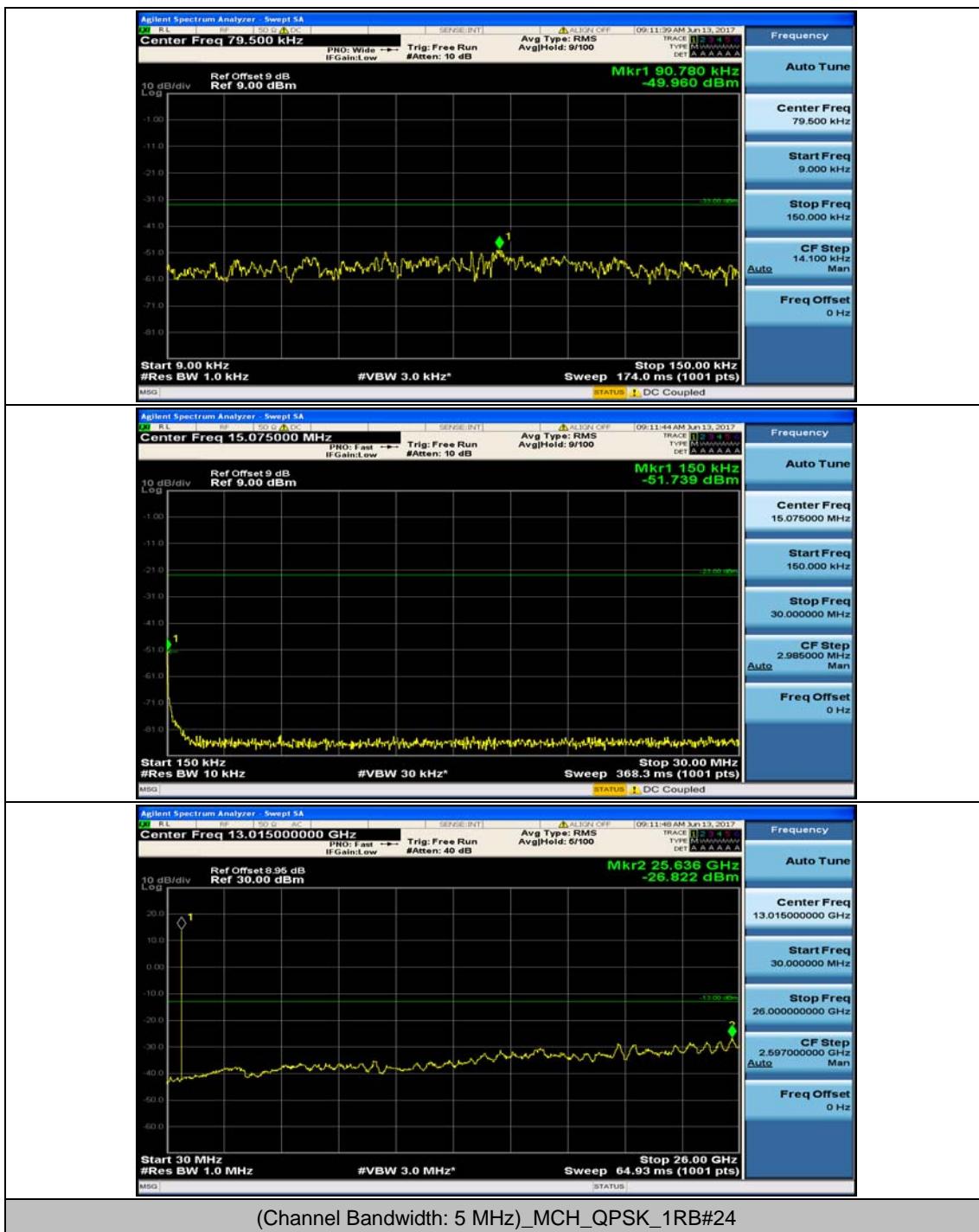


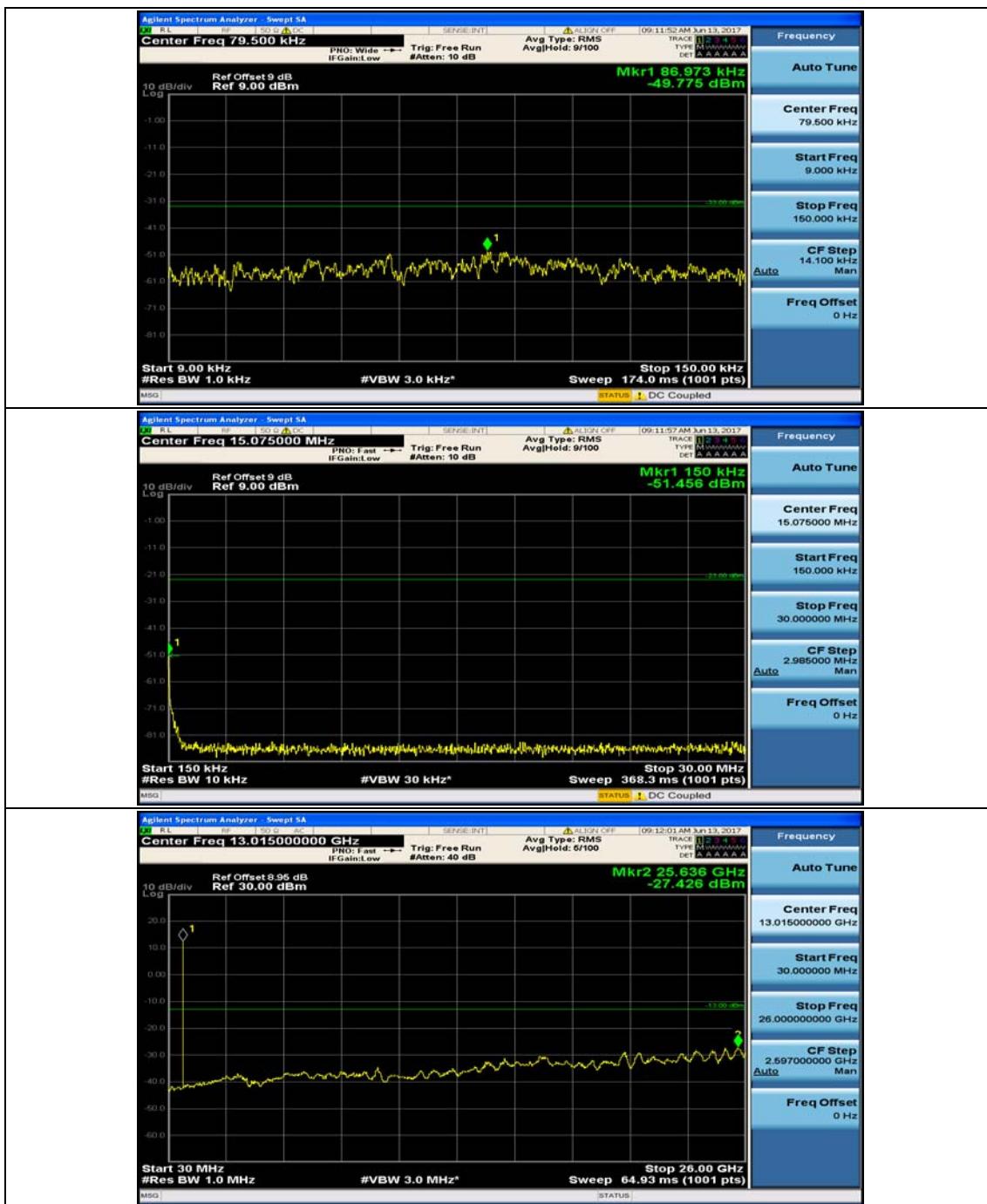




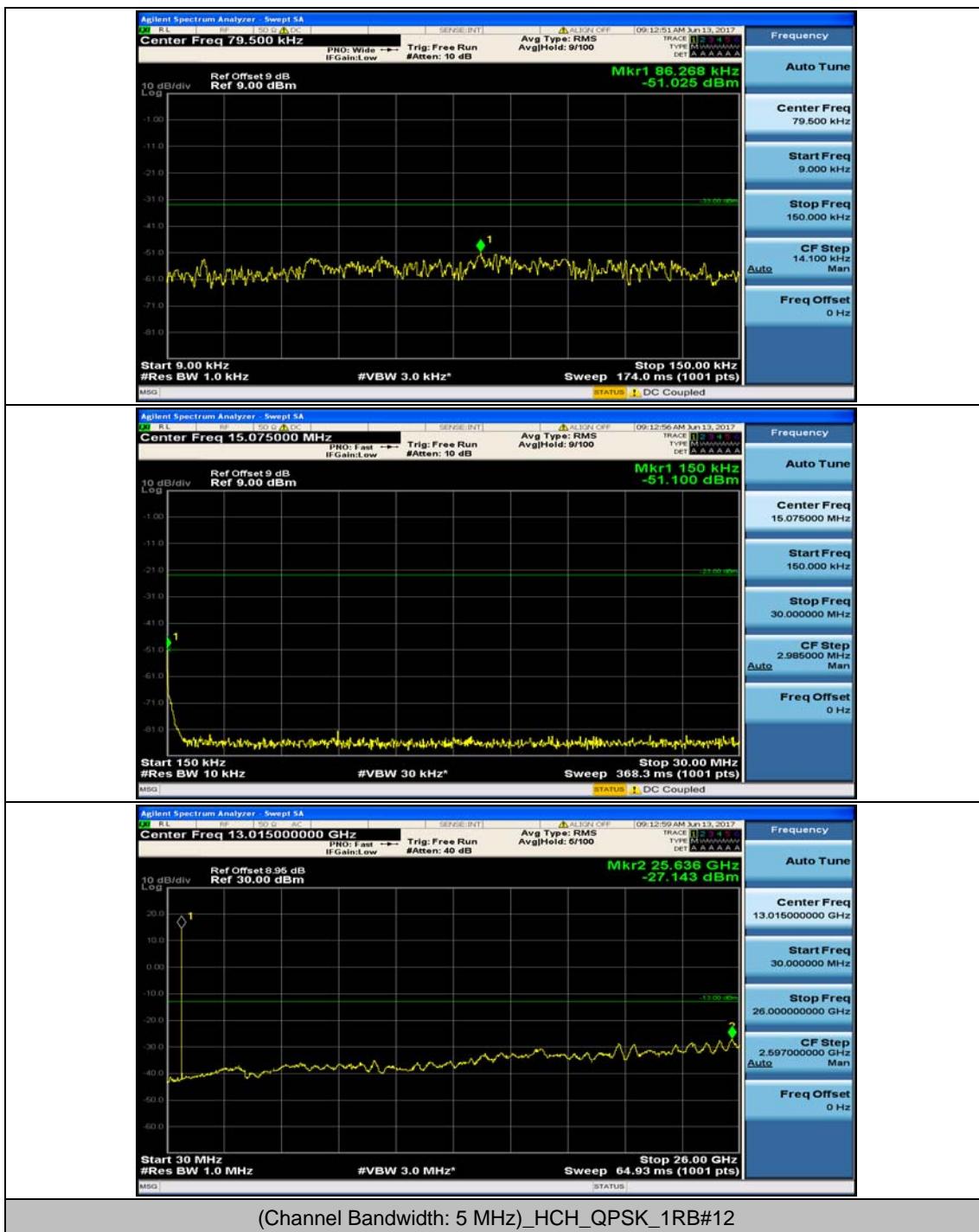
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#0

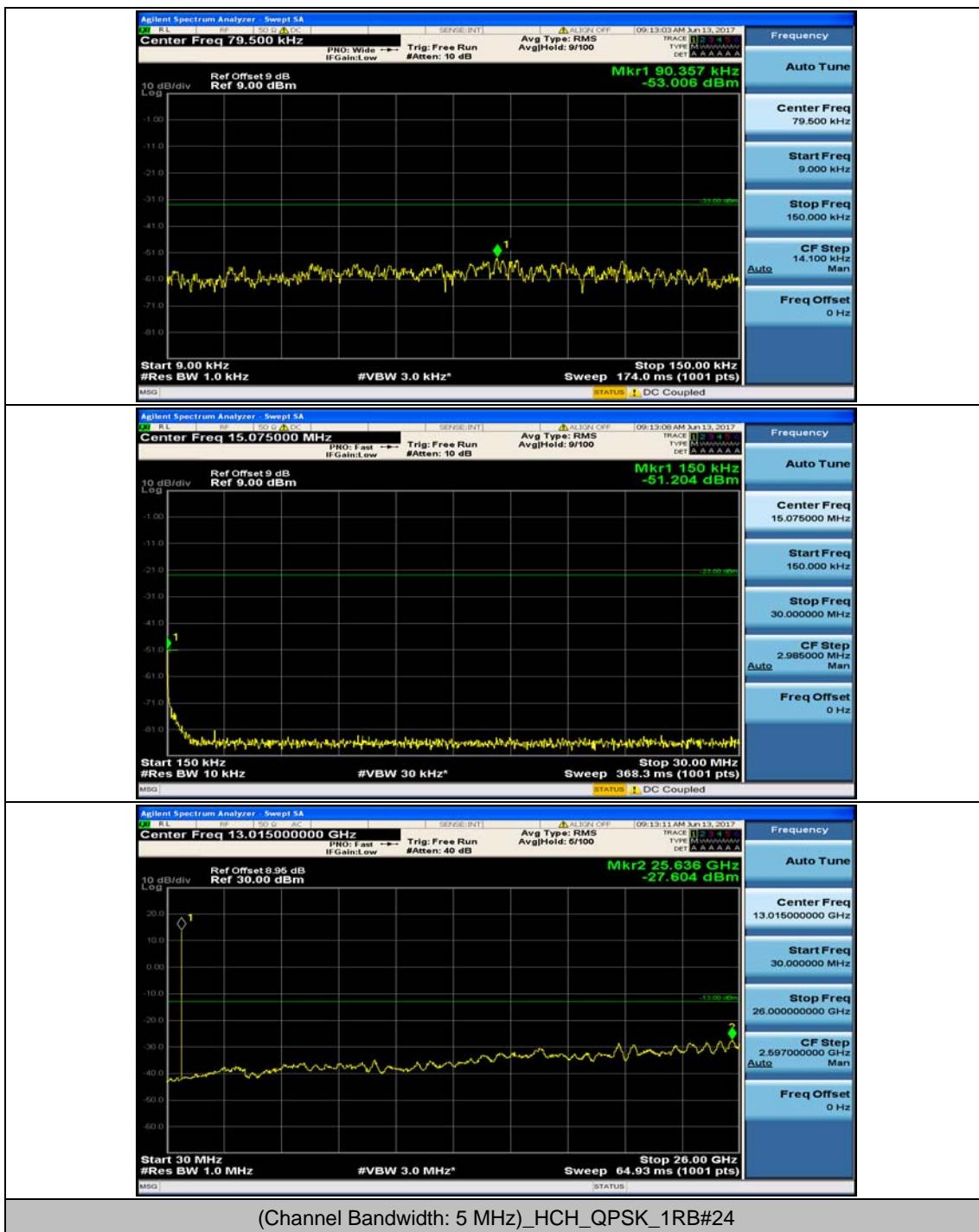


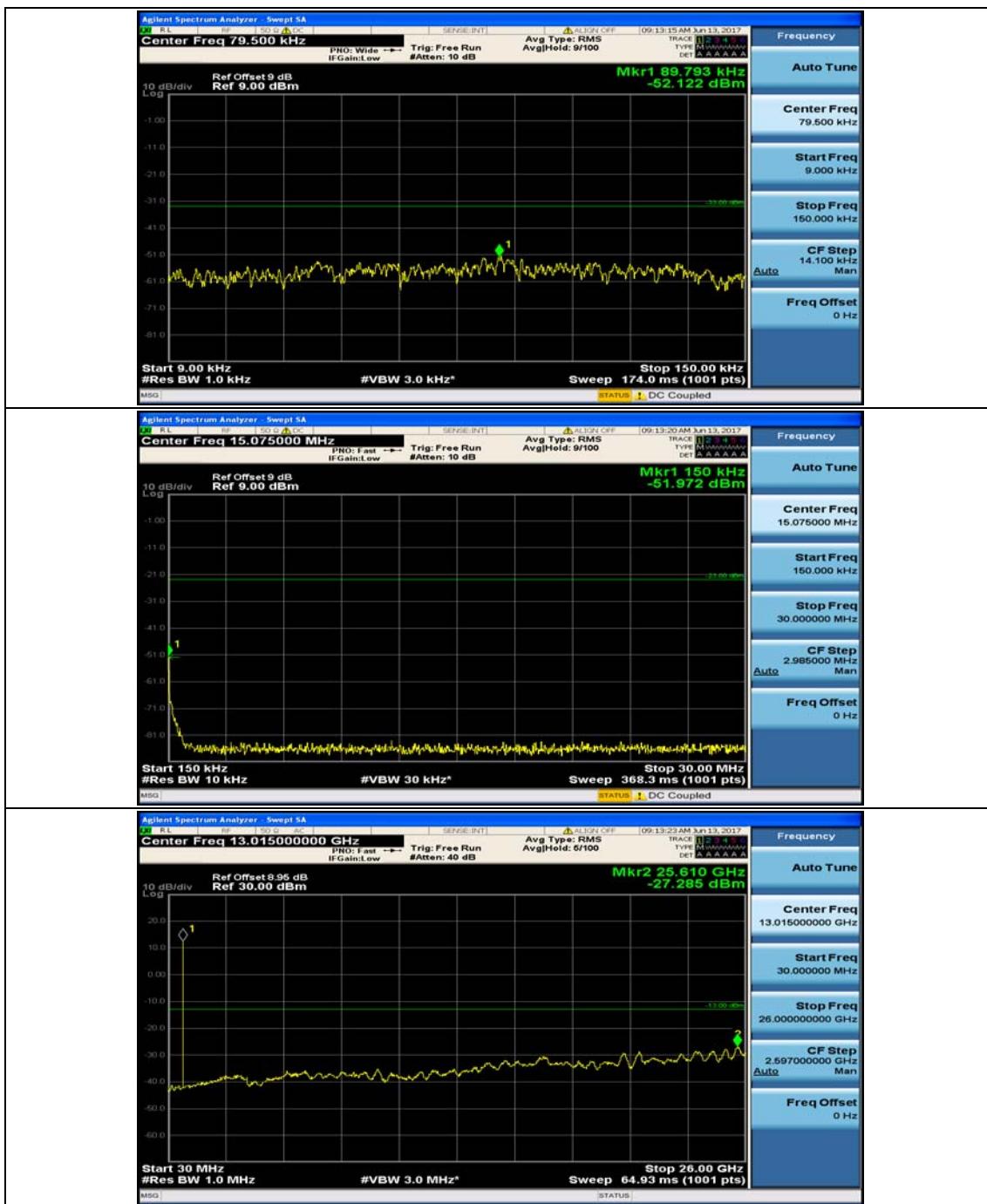




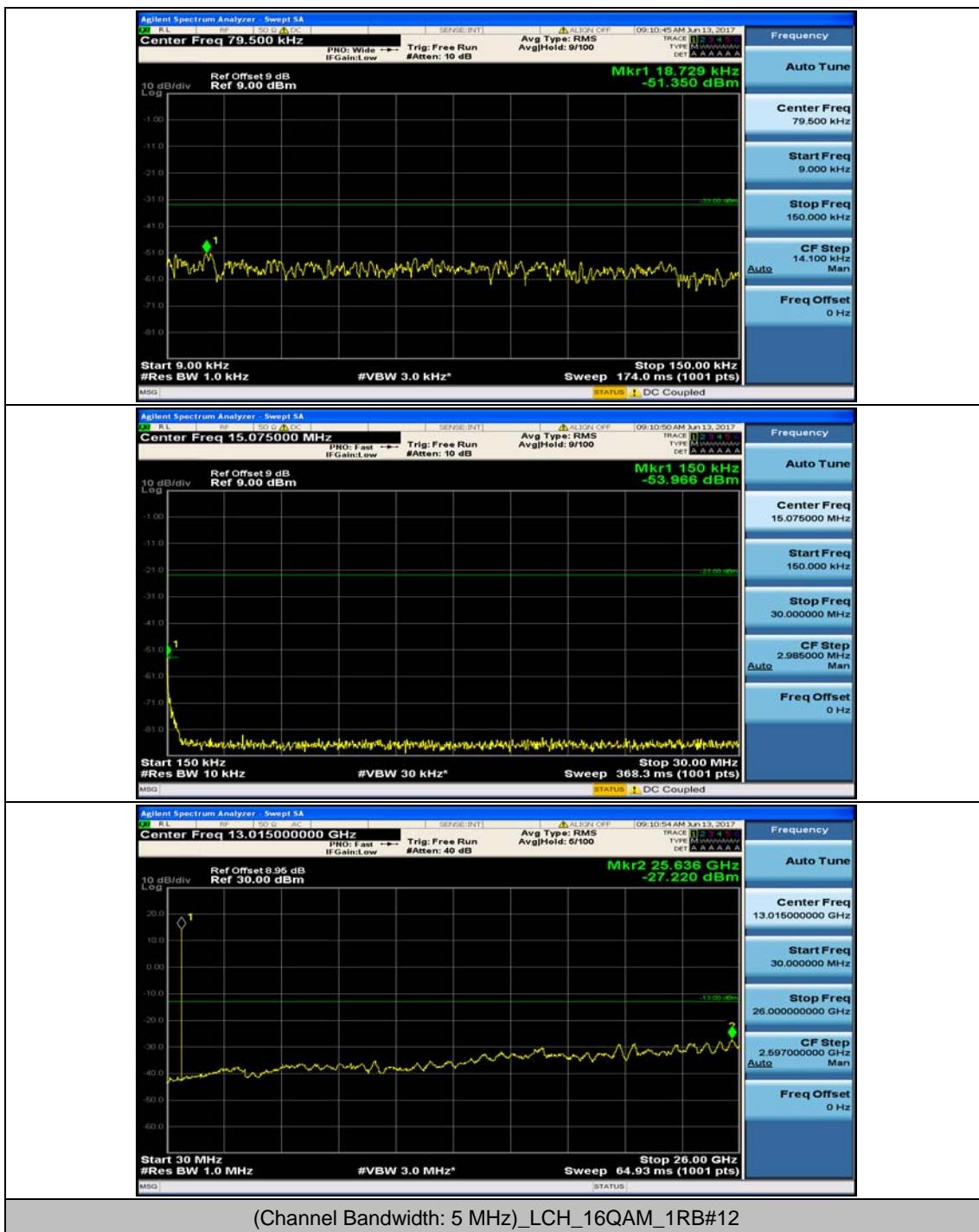
(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#0

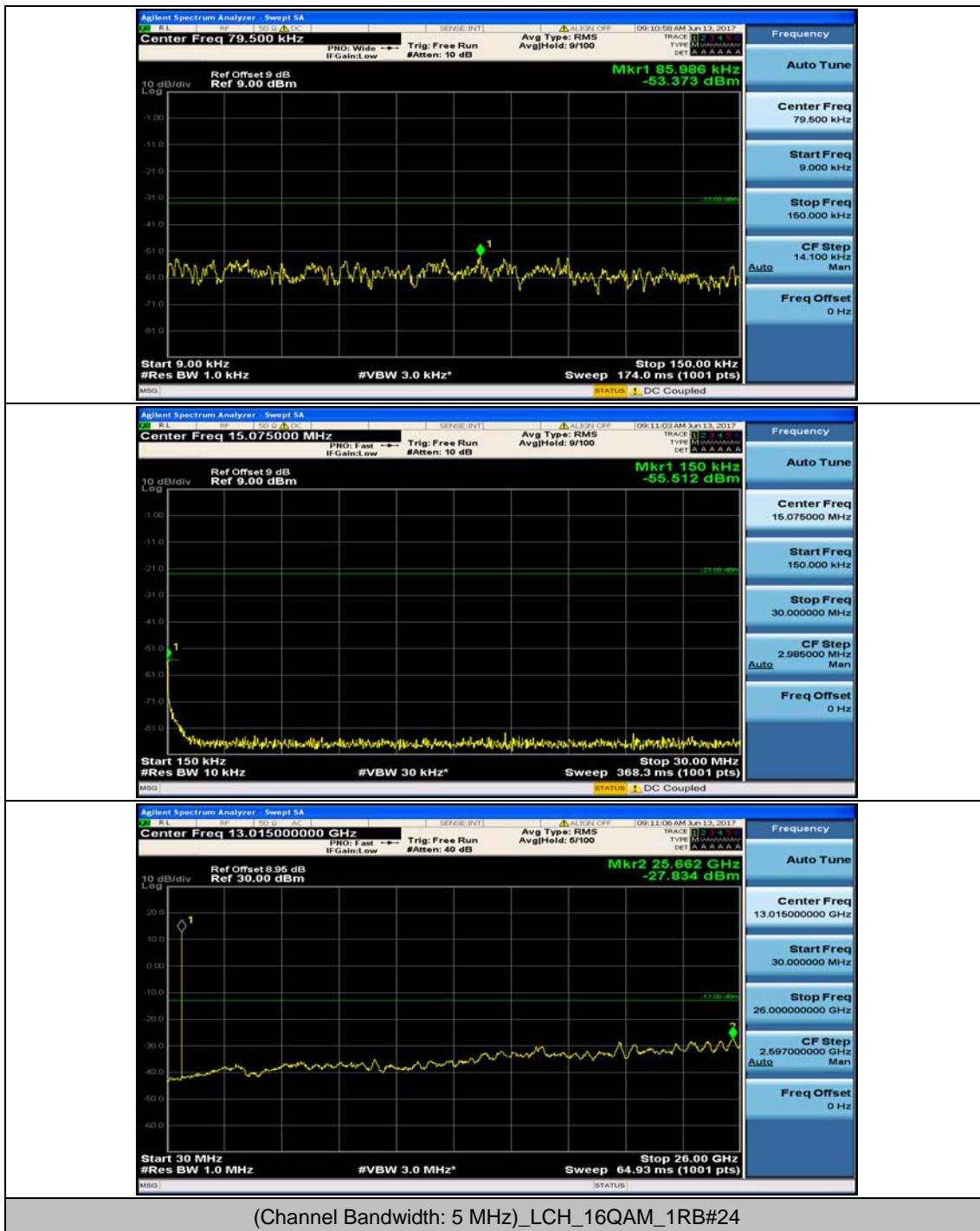


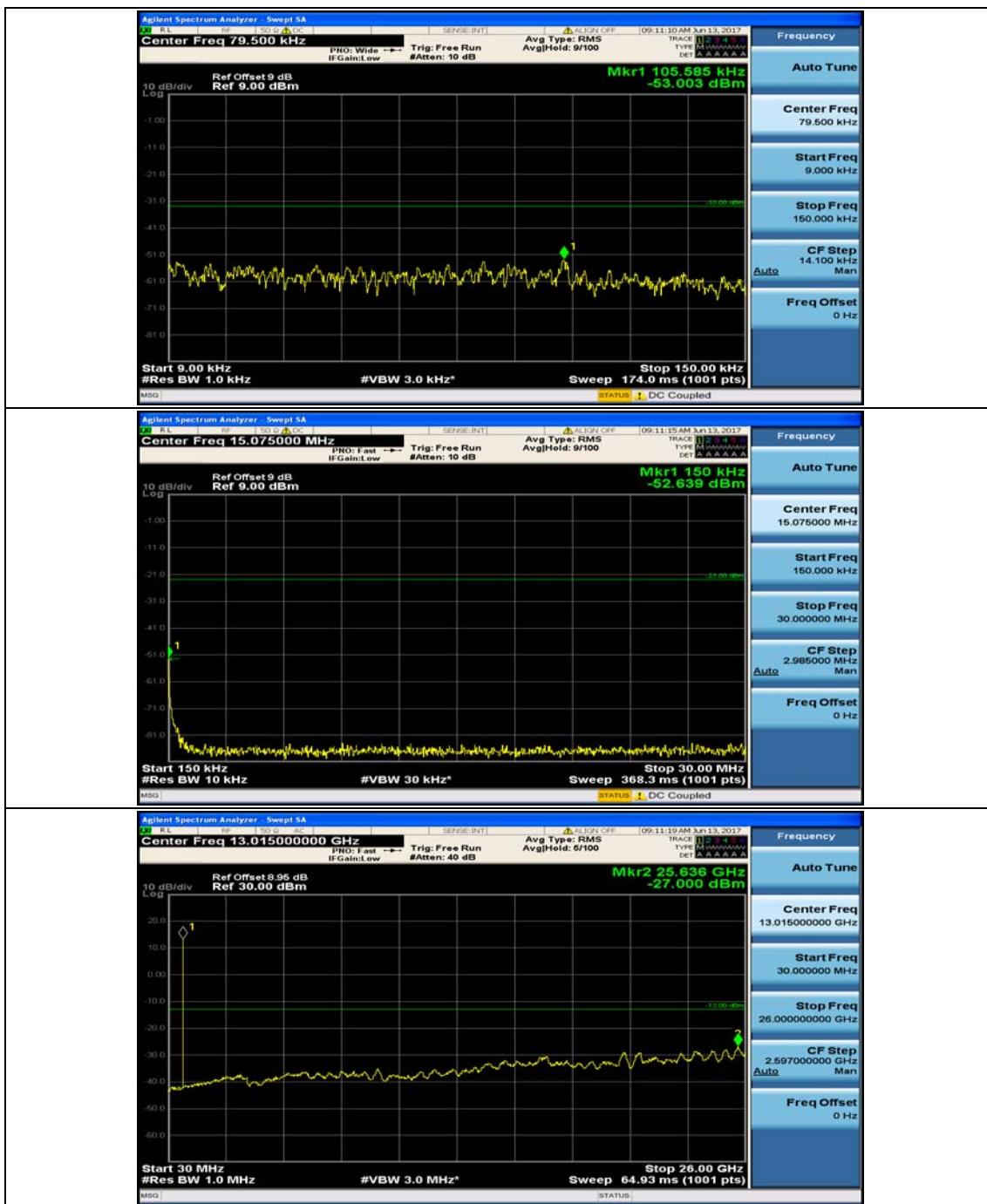




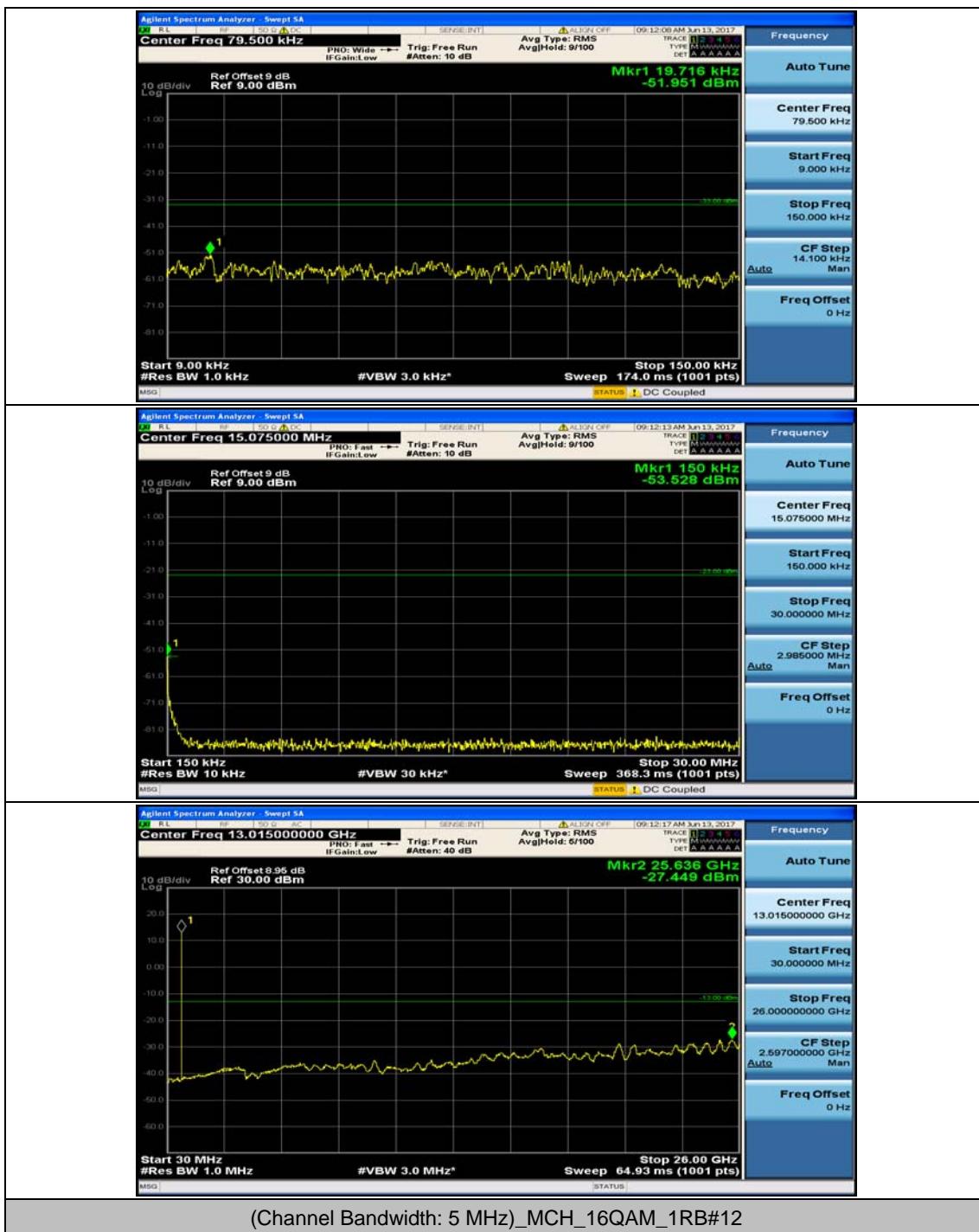
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#0

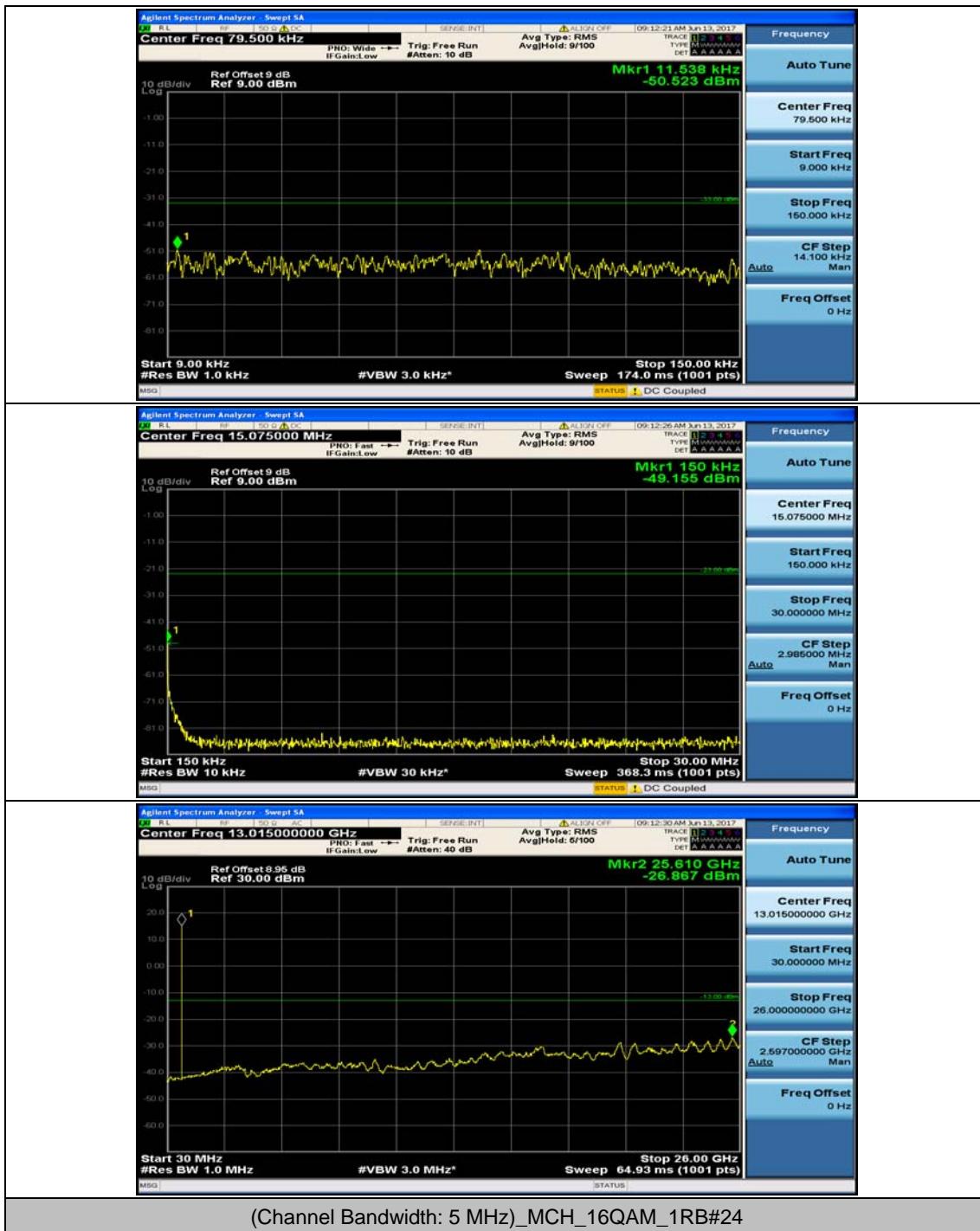


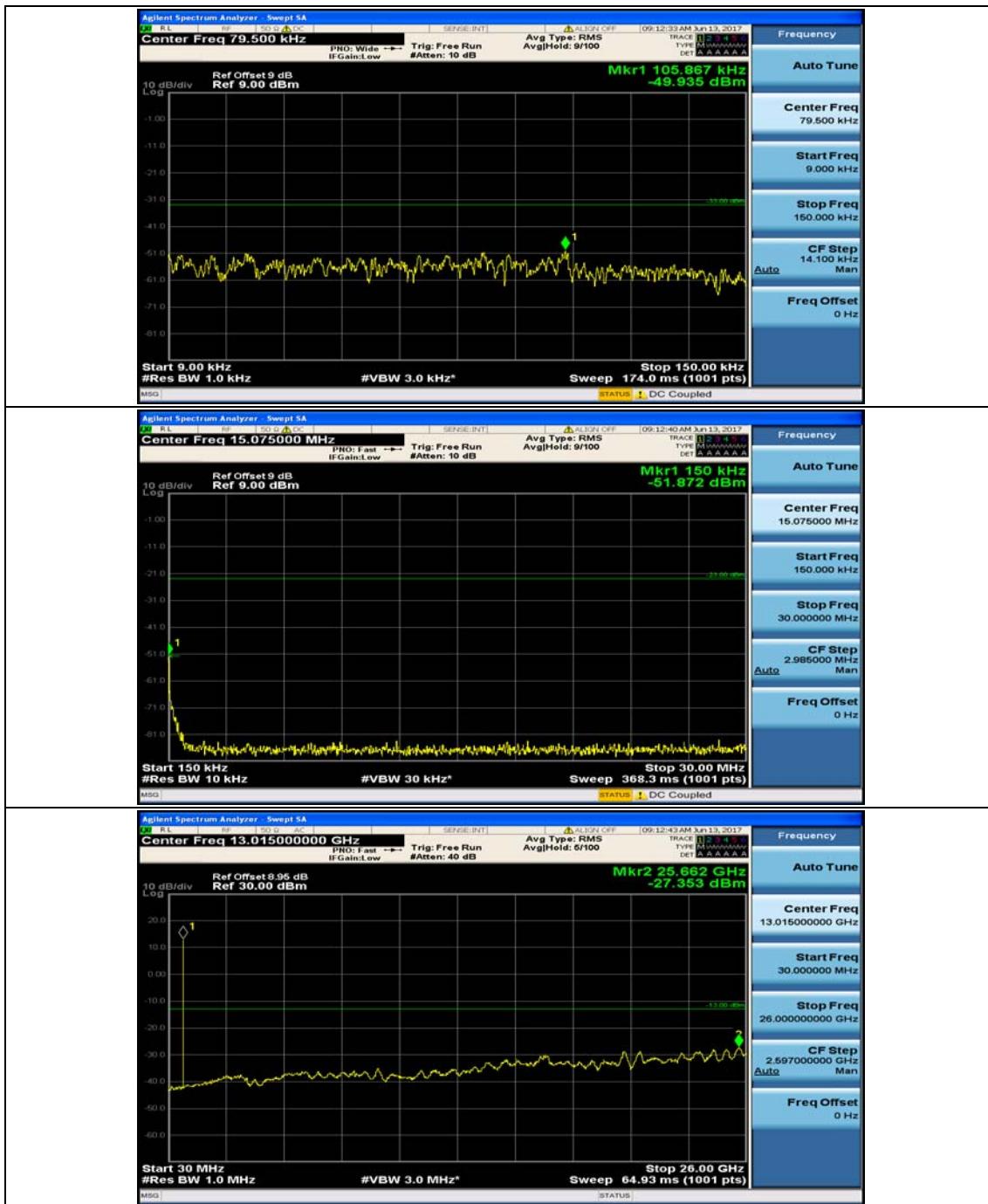




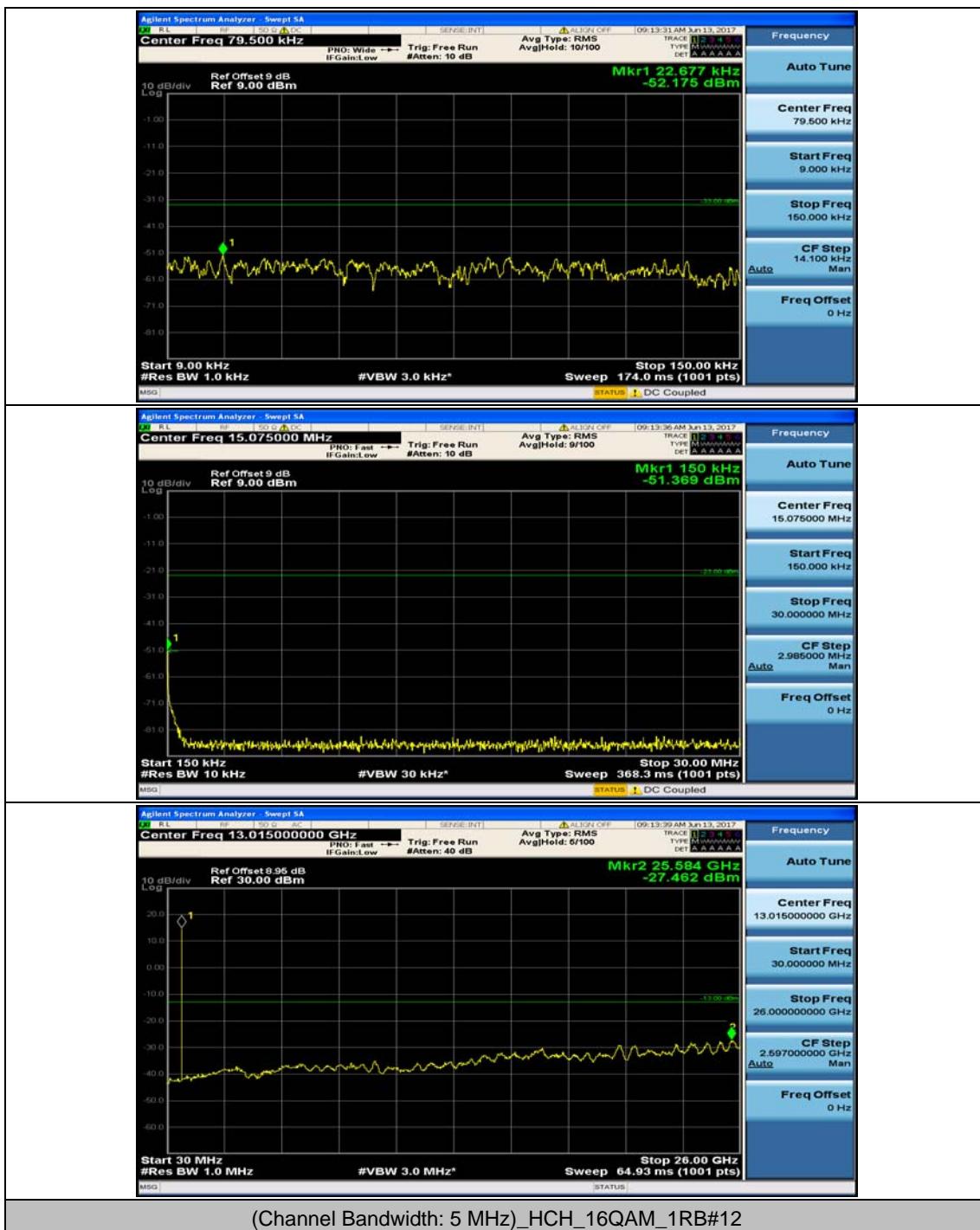
(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_1RB#0

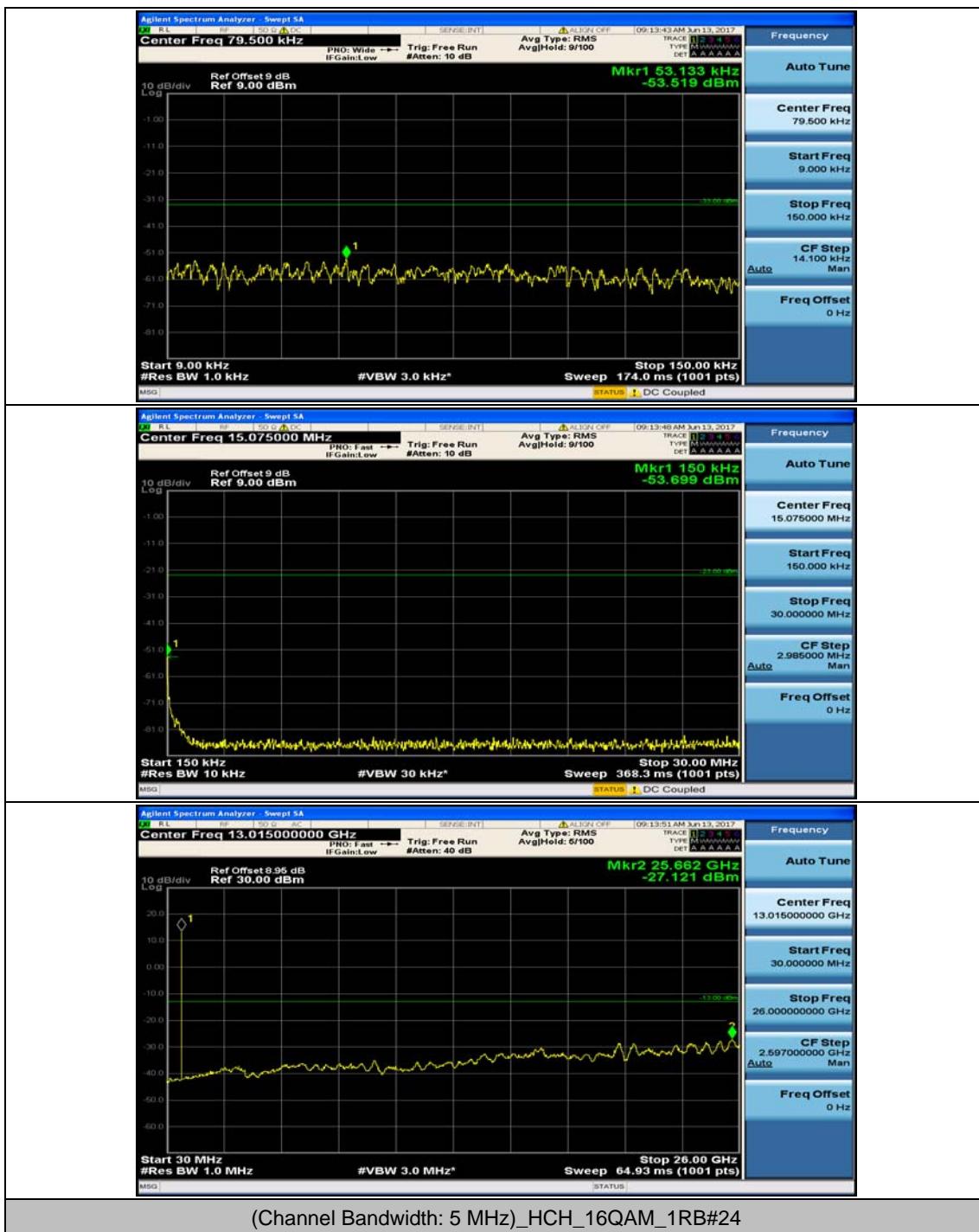


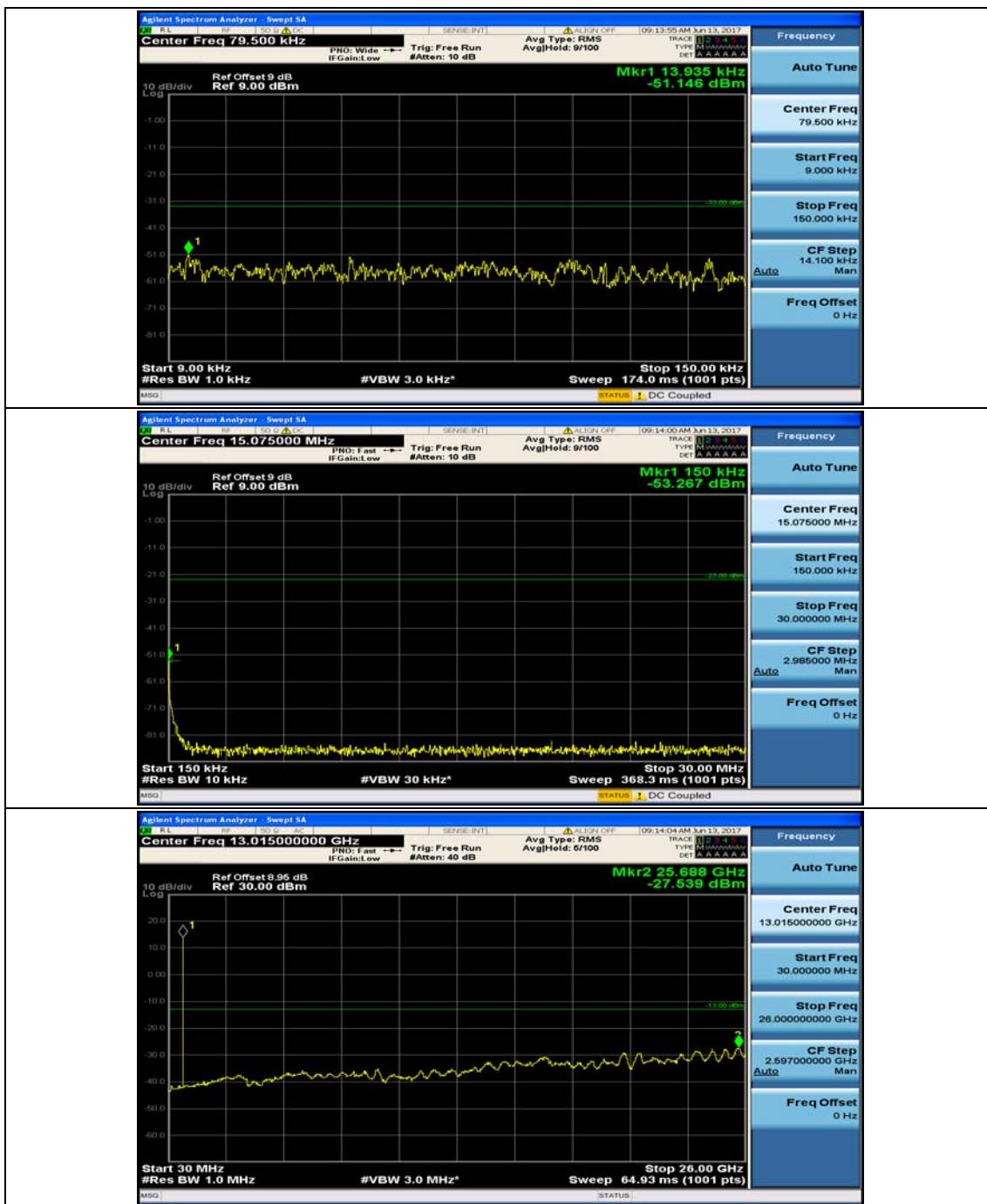




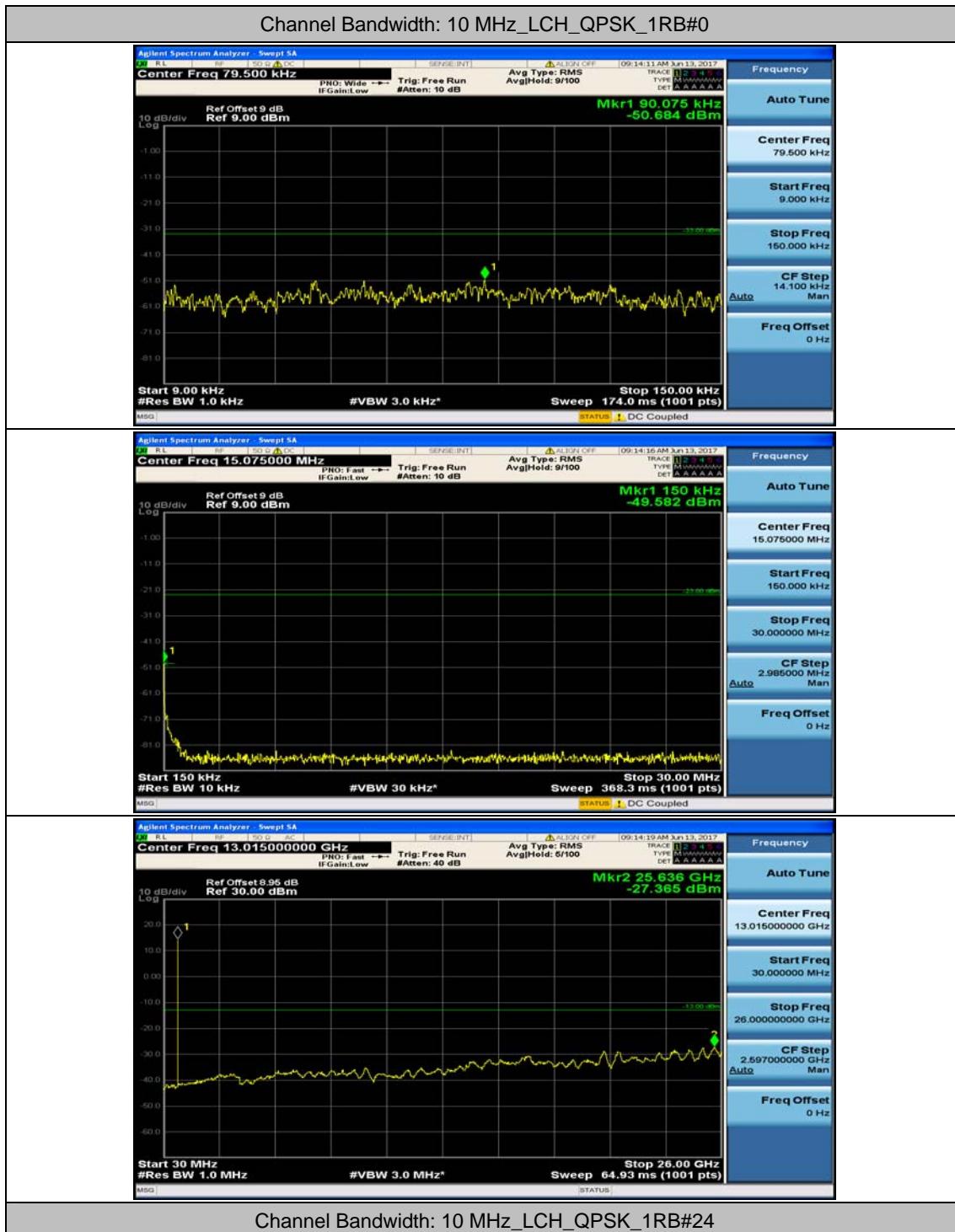
(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#0

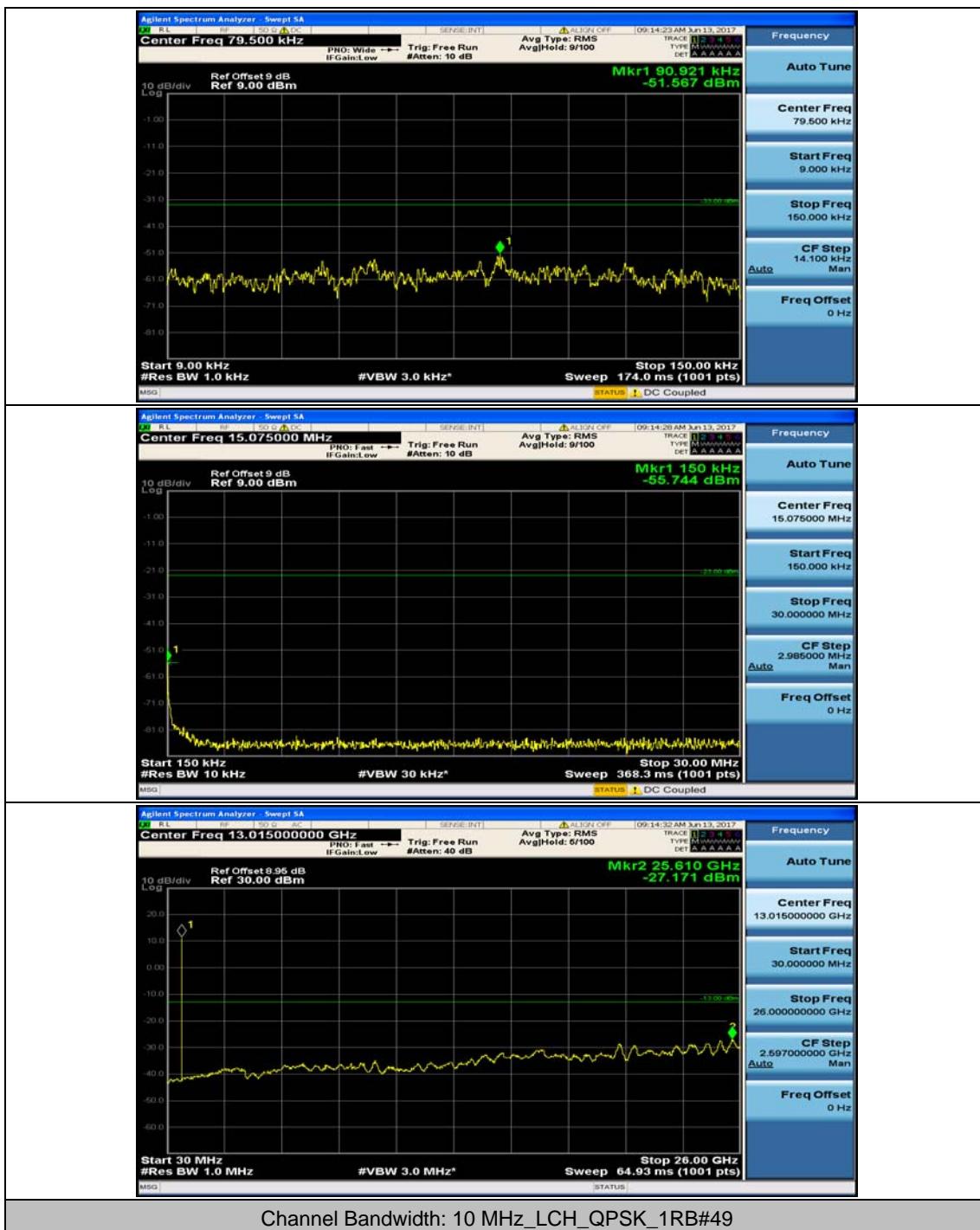


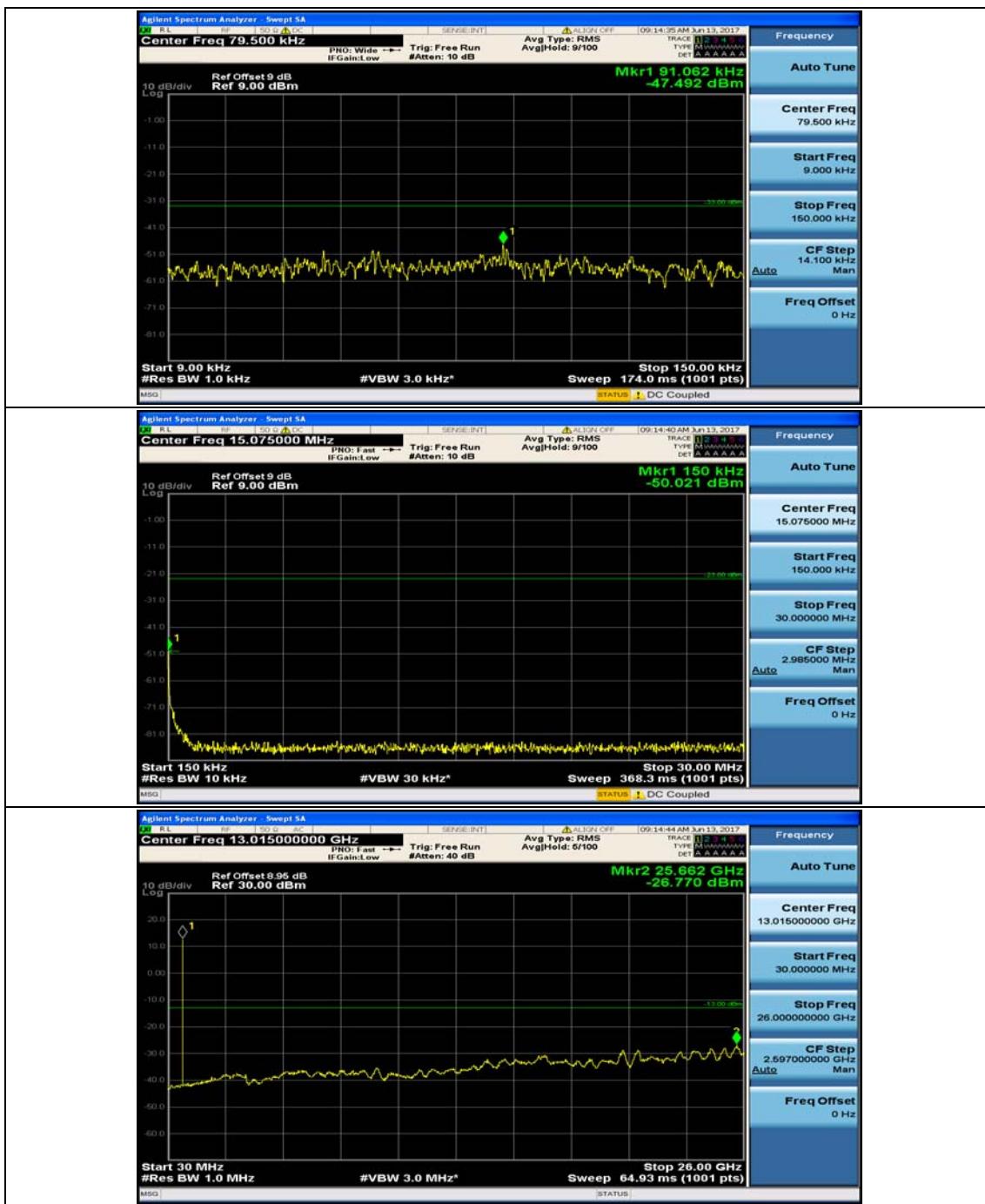




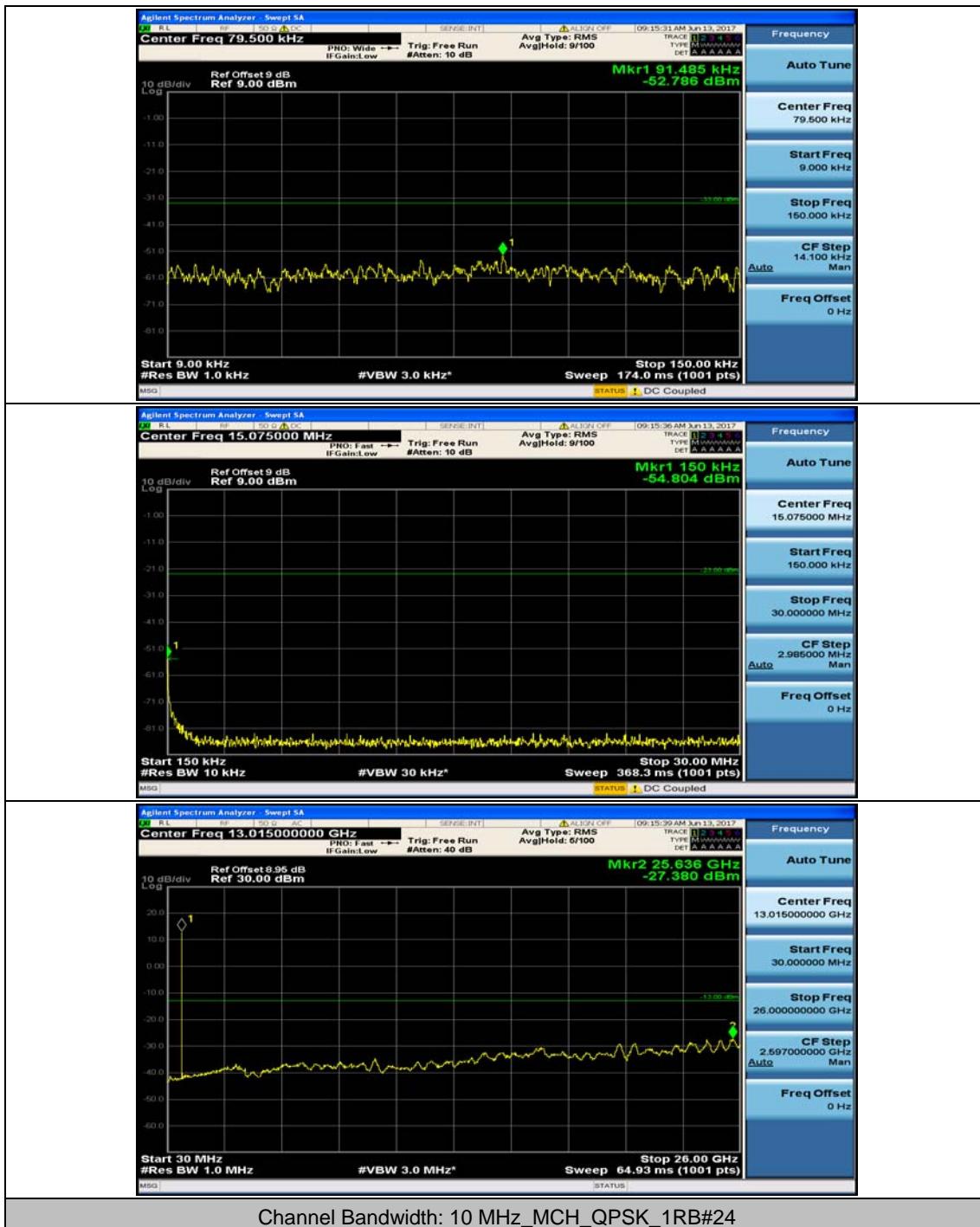
## Channel Bandwidth: 10 MHz

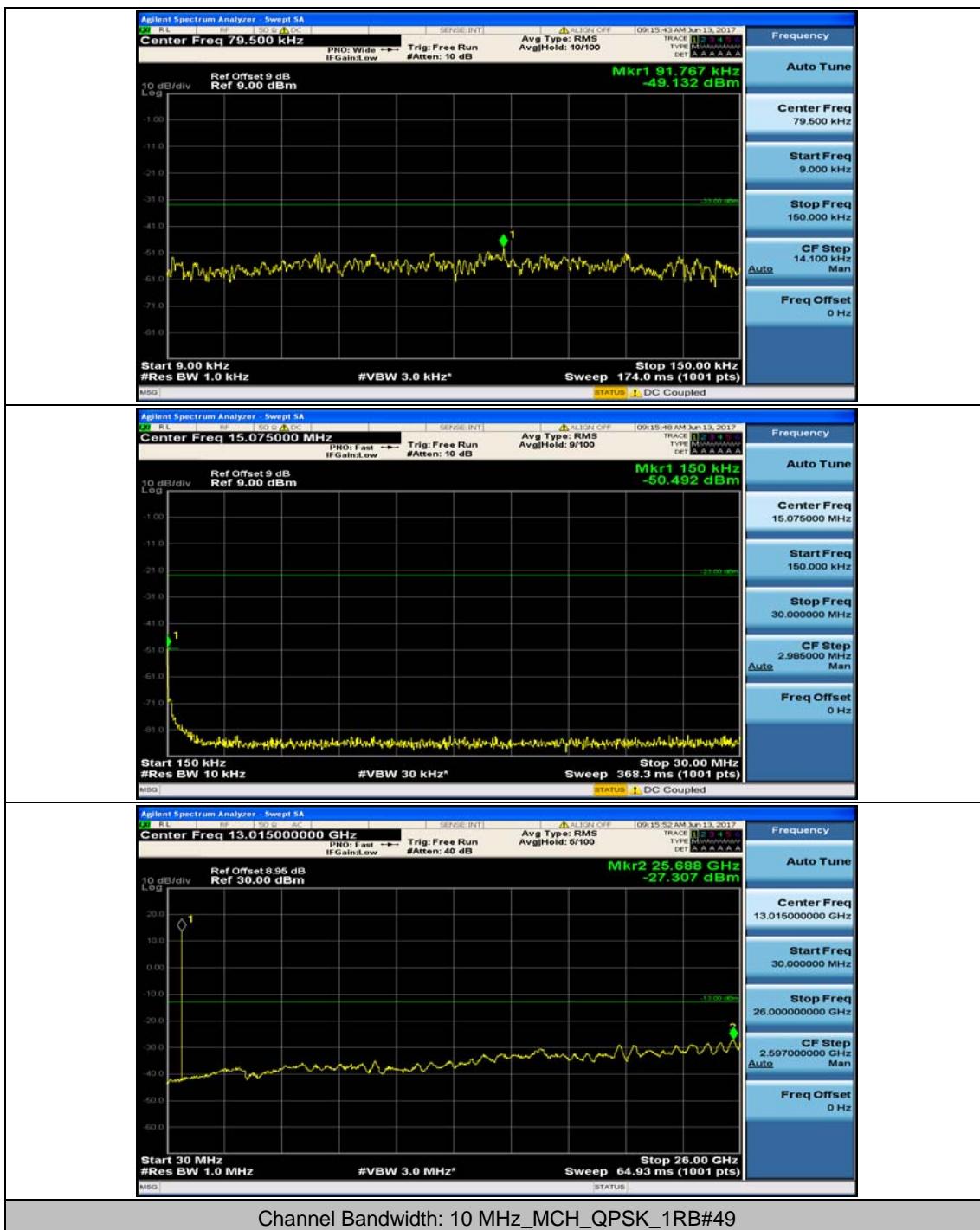


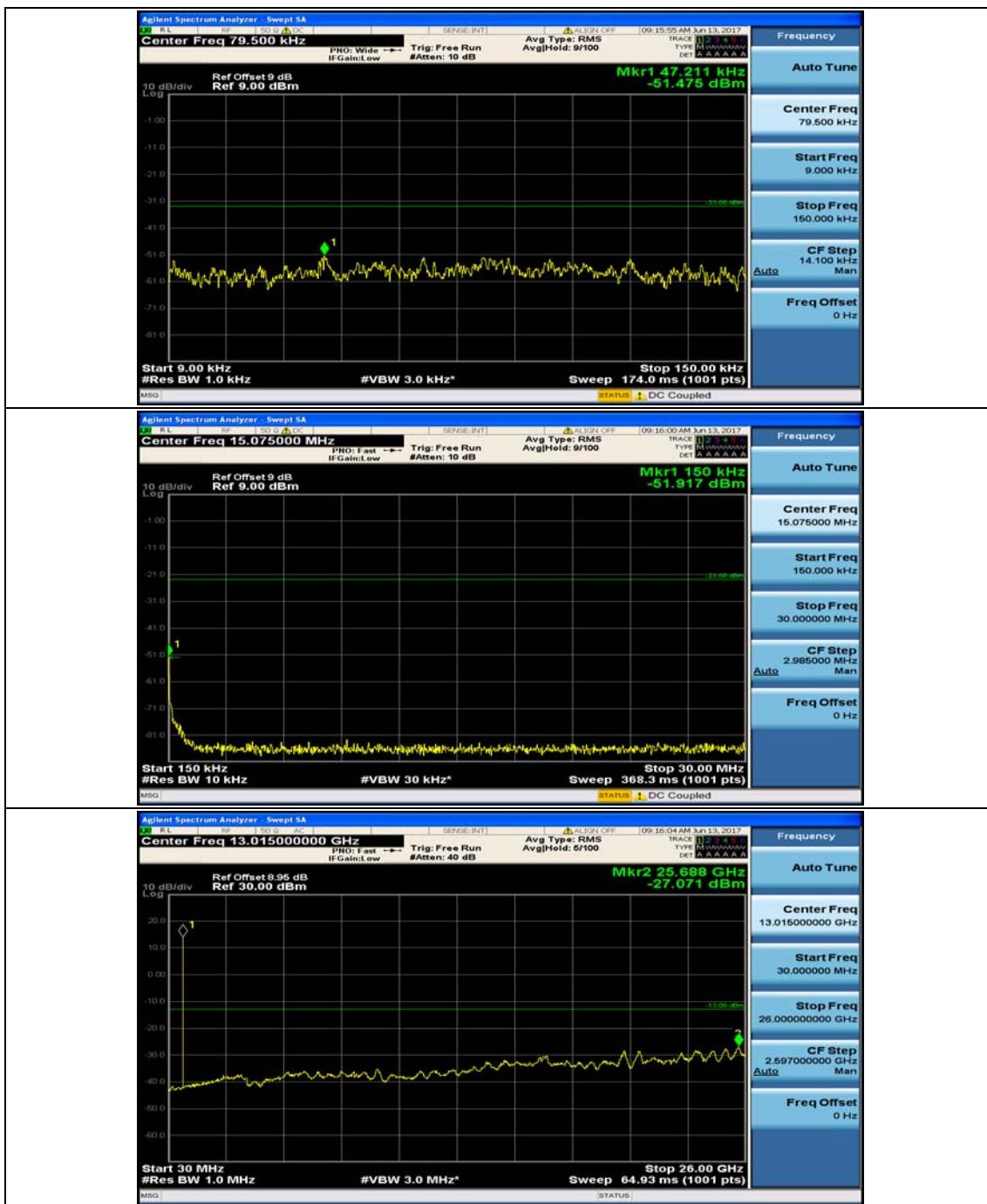




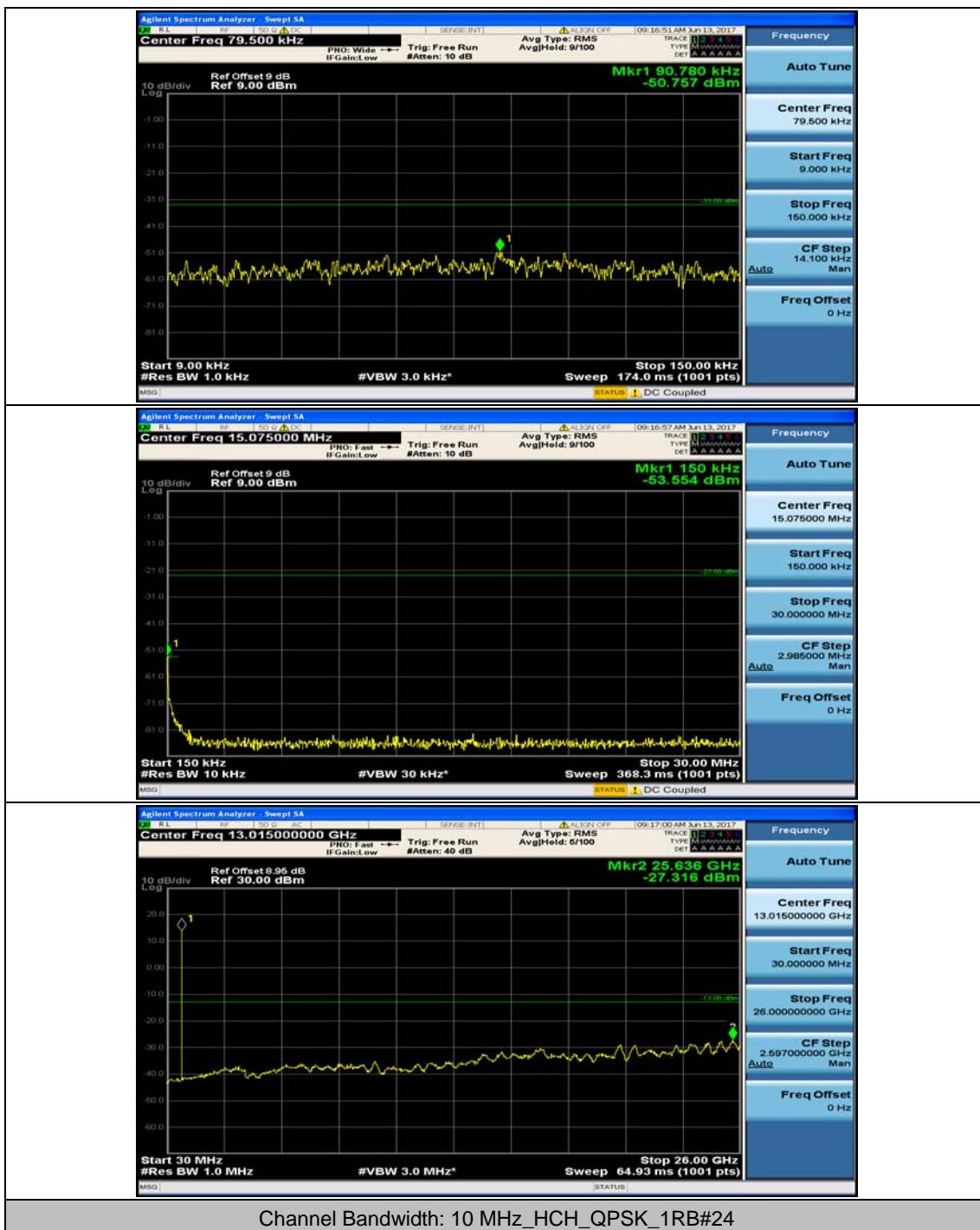
Channel Bandwidth: 10 MHz\_MCH\_QPSK\_1RB#0

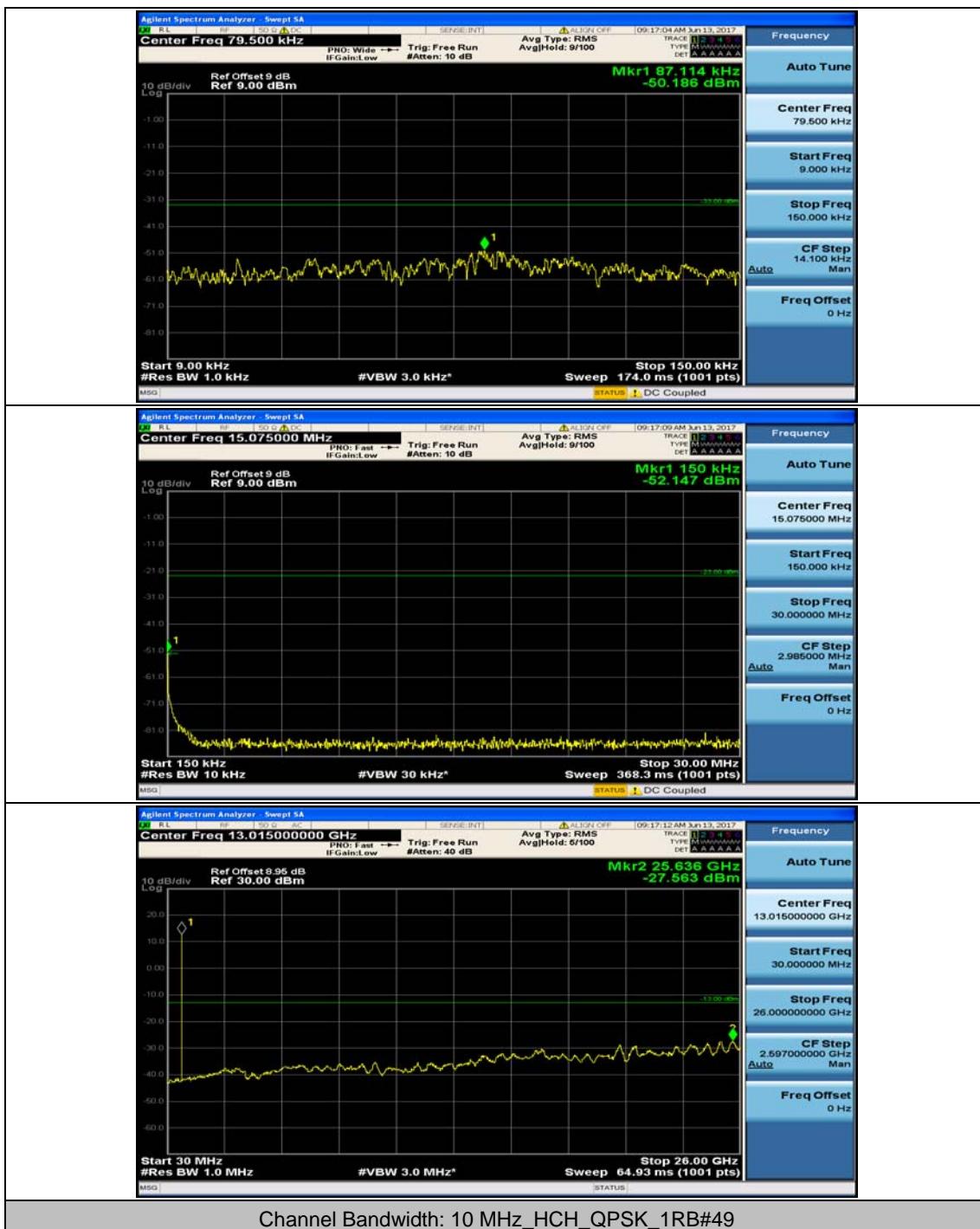


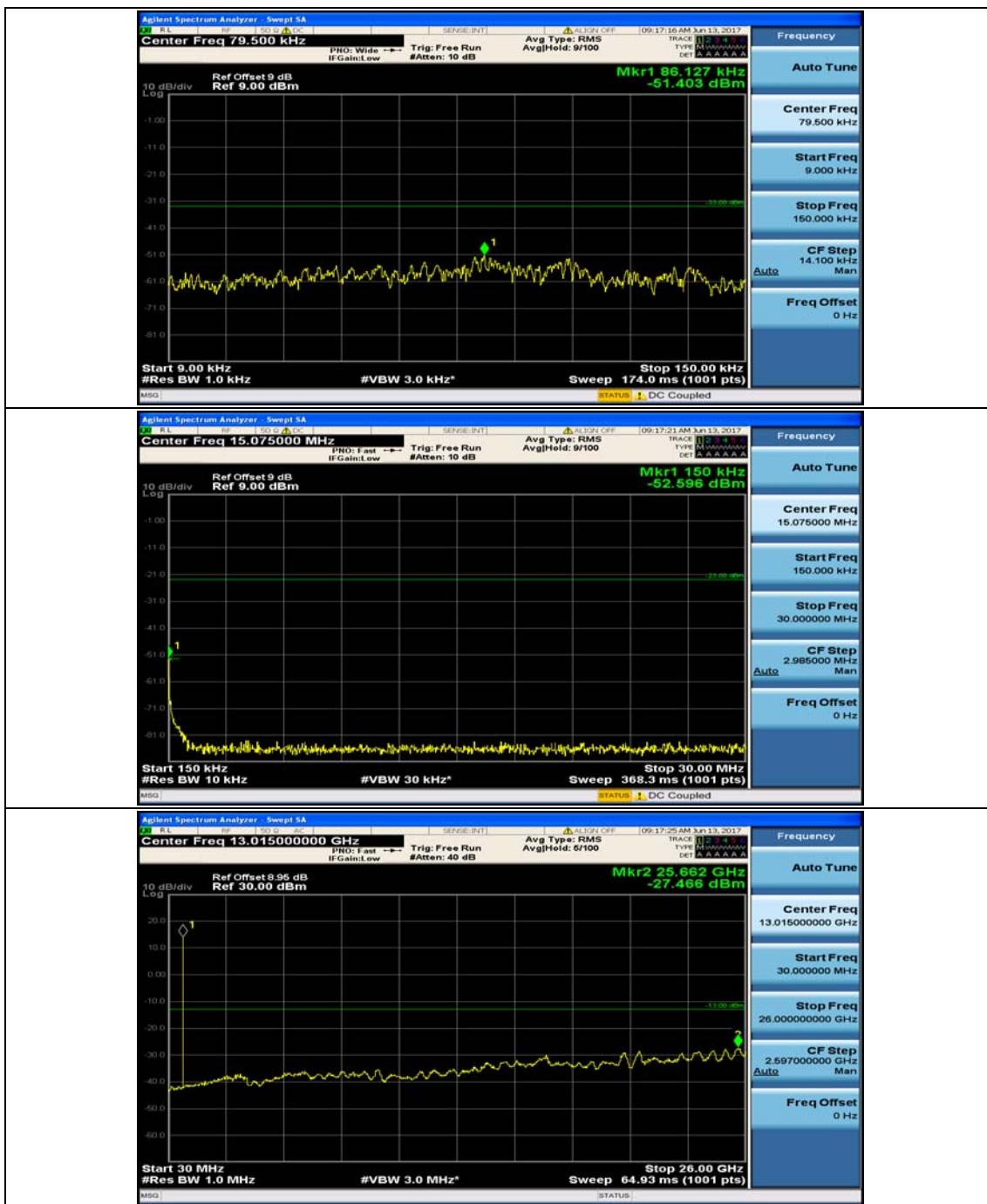




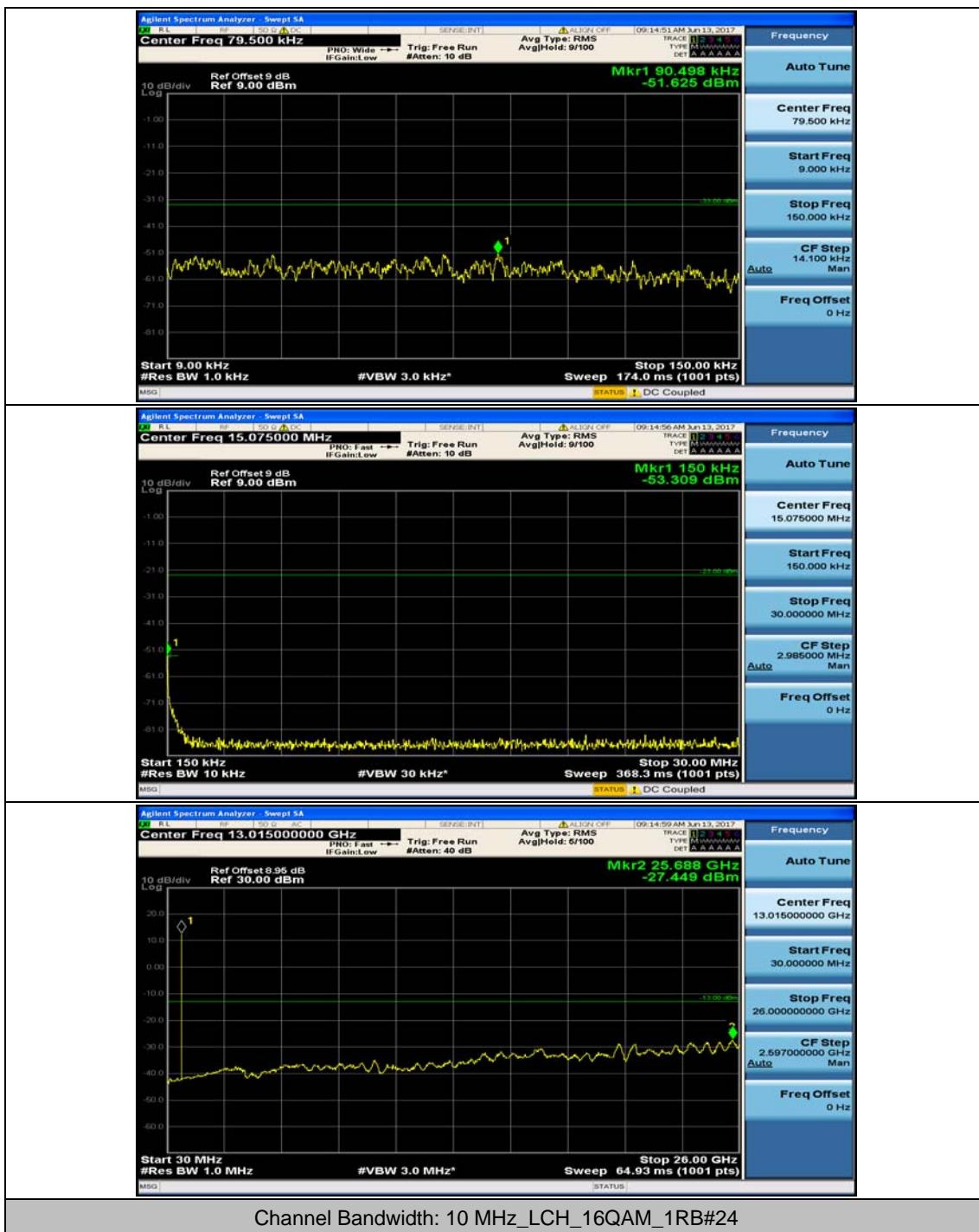
Channel Bandwidth: 10 MHz\_HCH\_QPSK\_1RB#0

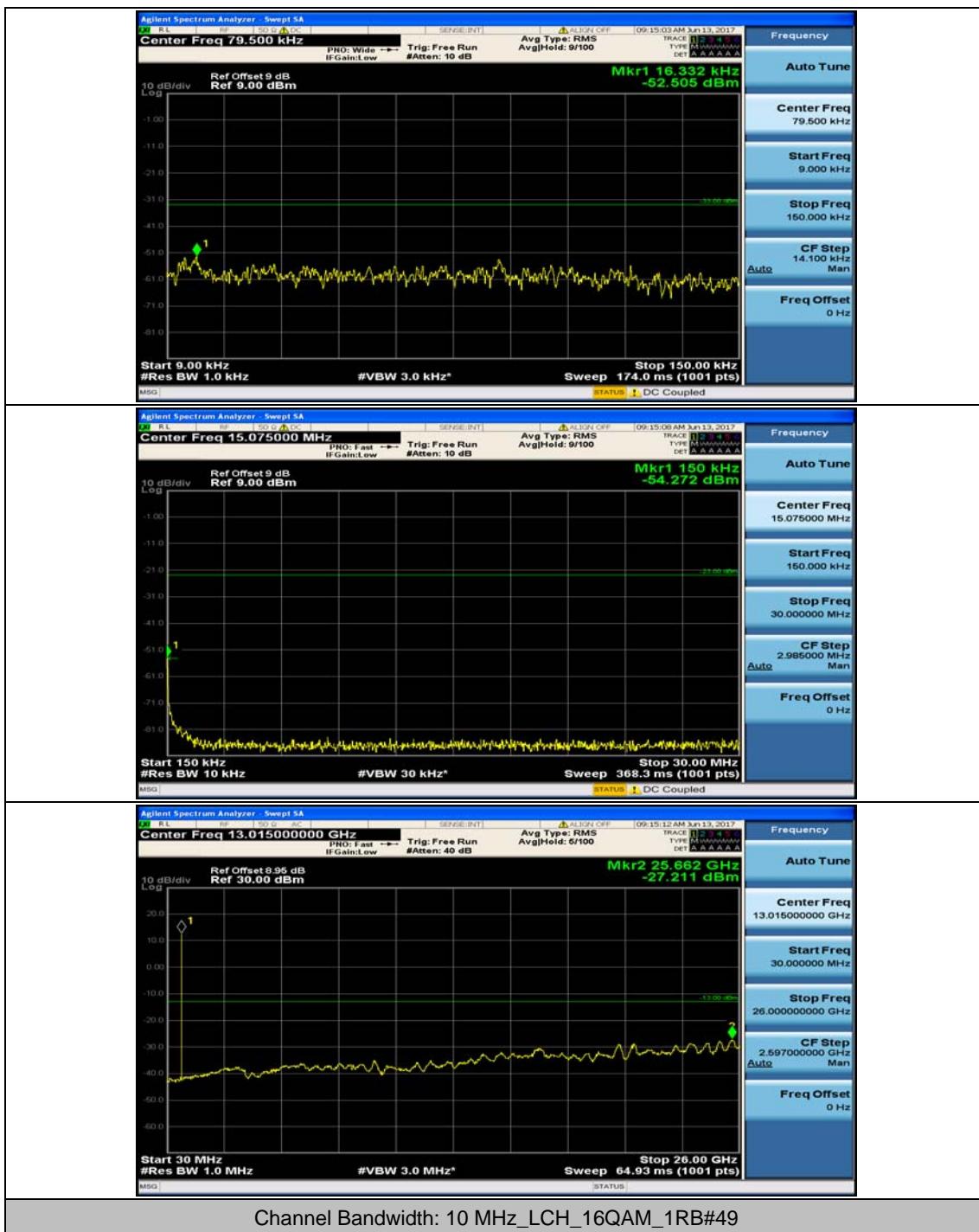


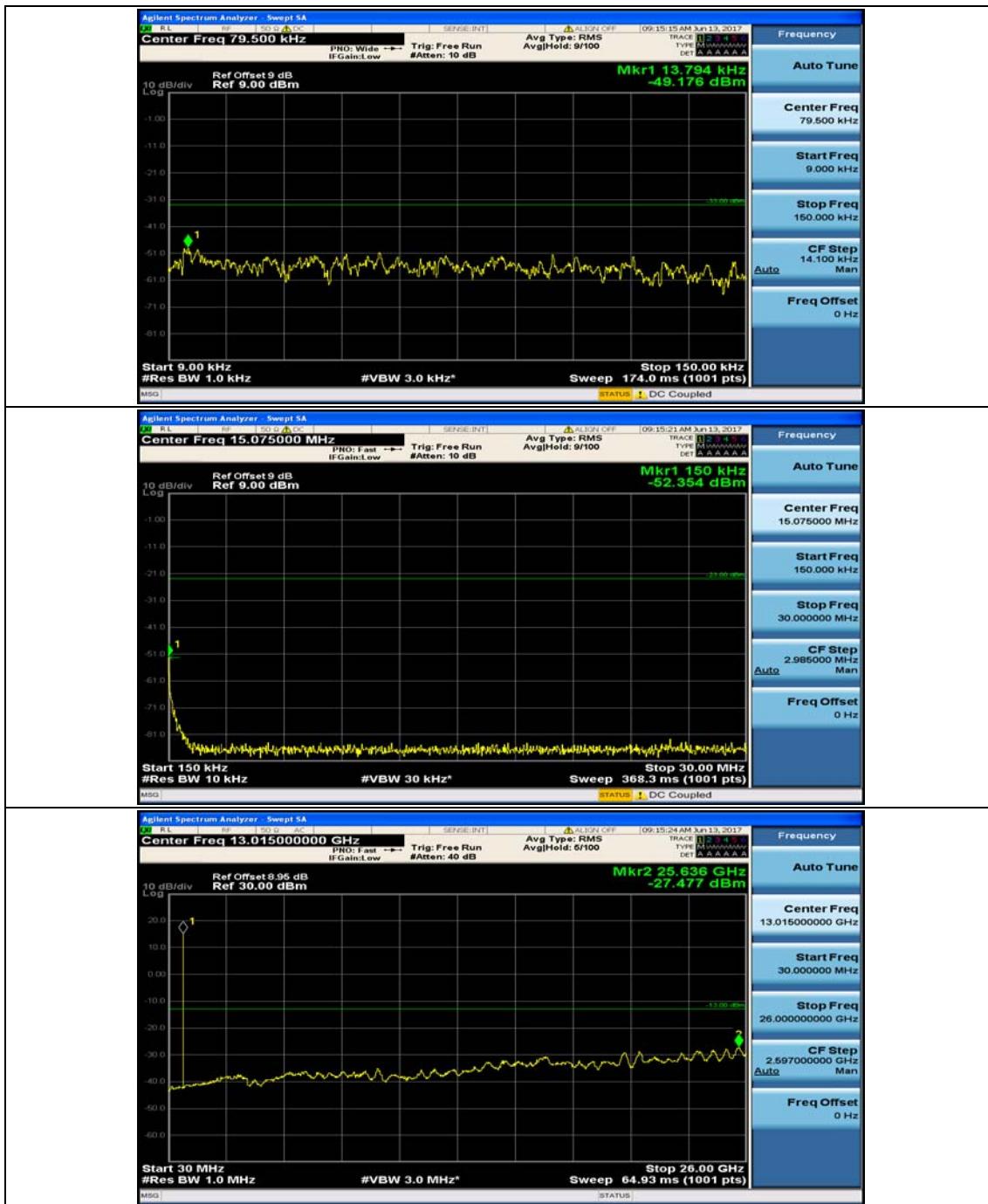




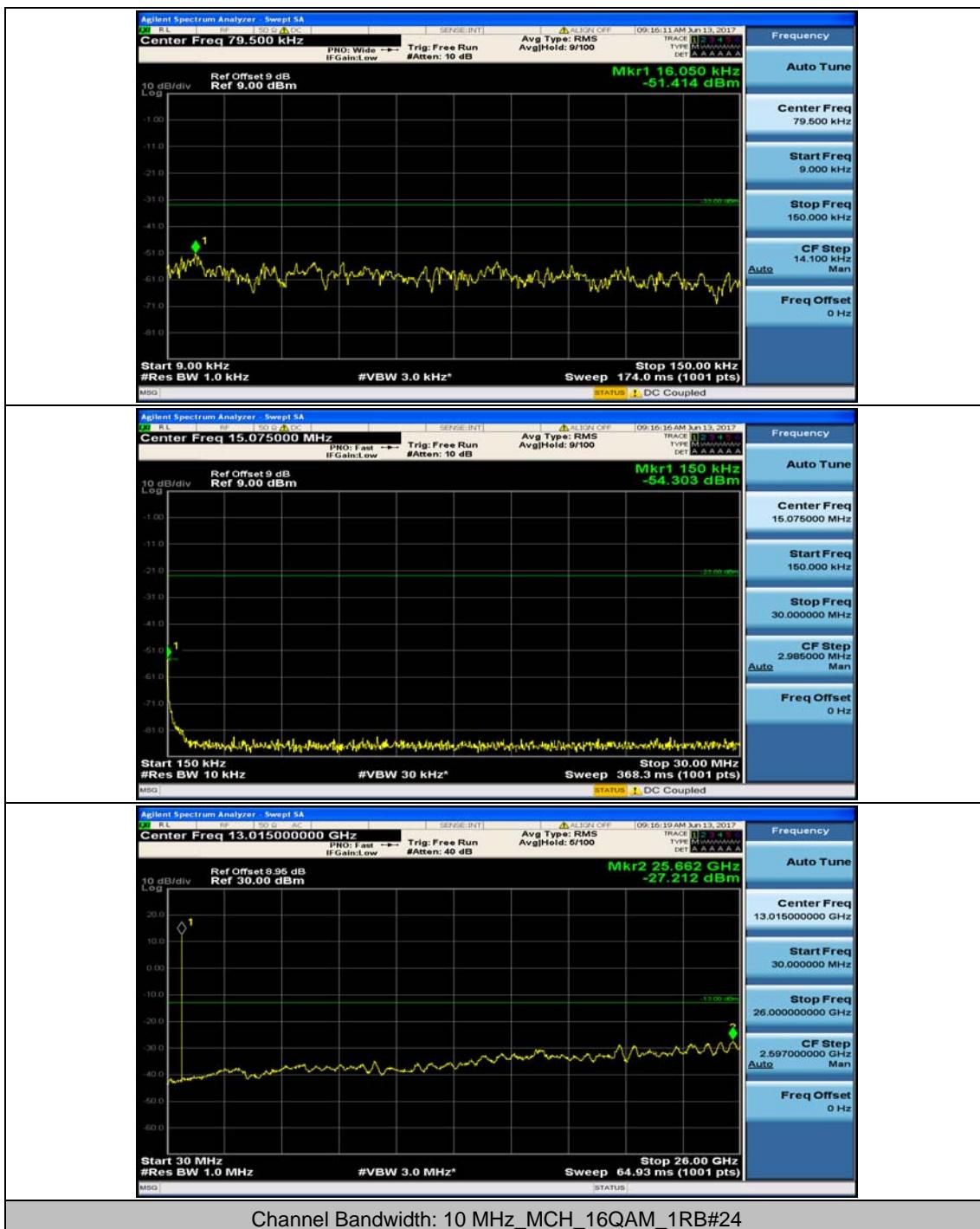
Channel Bandwidth: 10 MHz\_LCH\_16QAM\_1RB#0

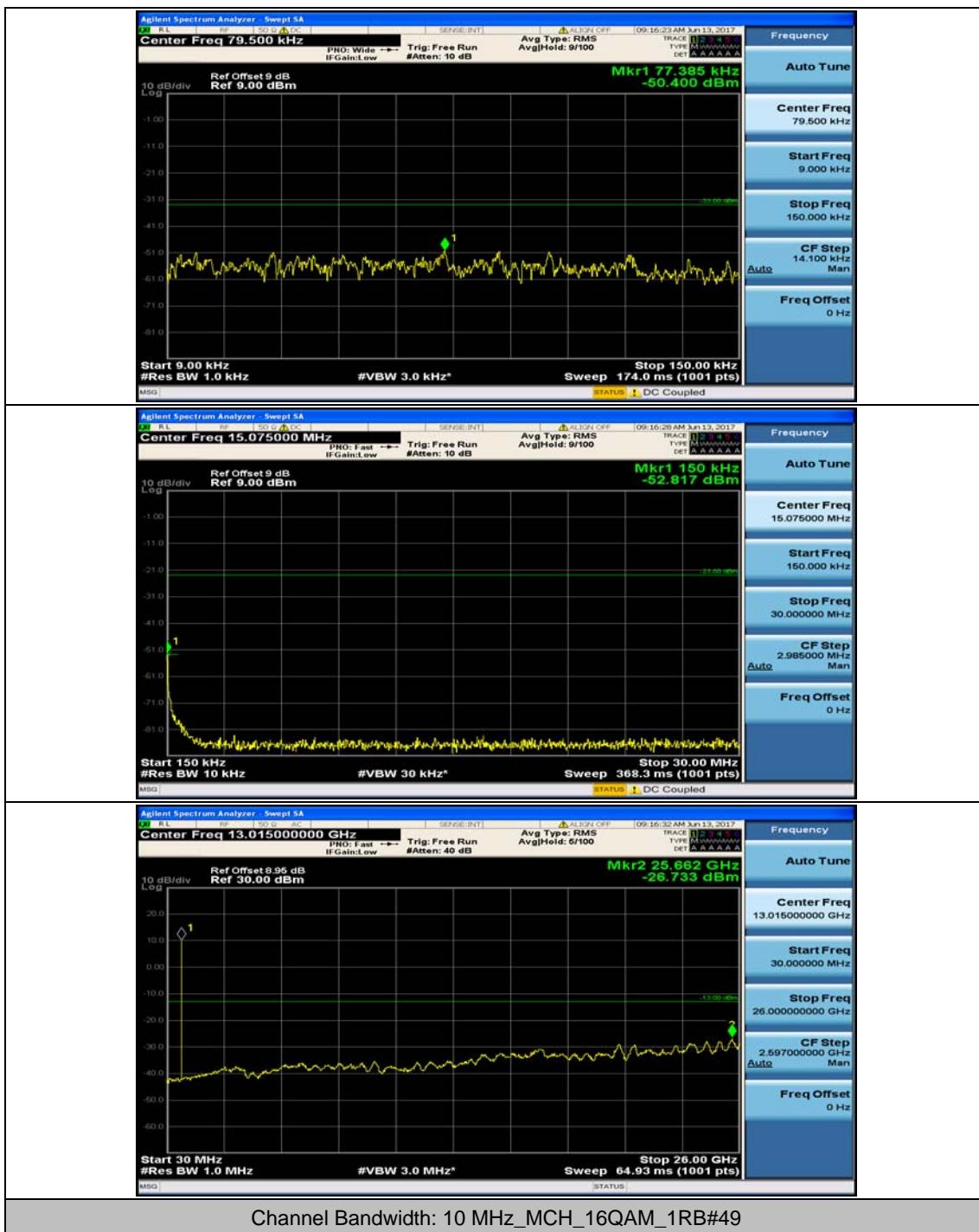


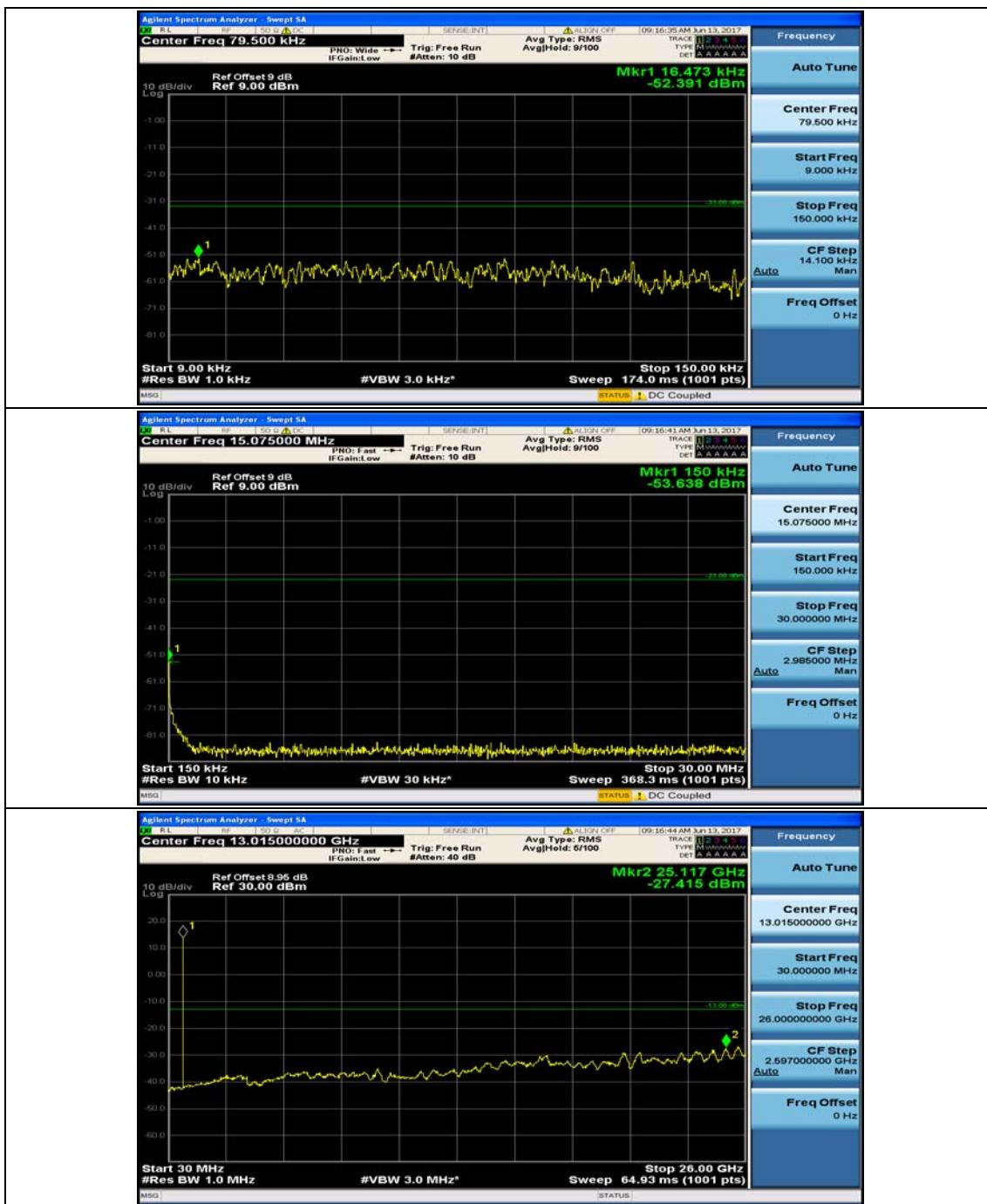




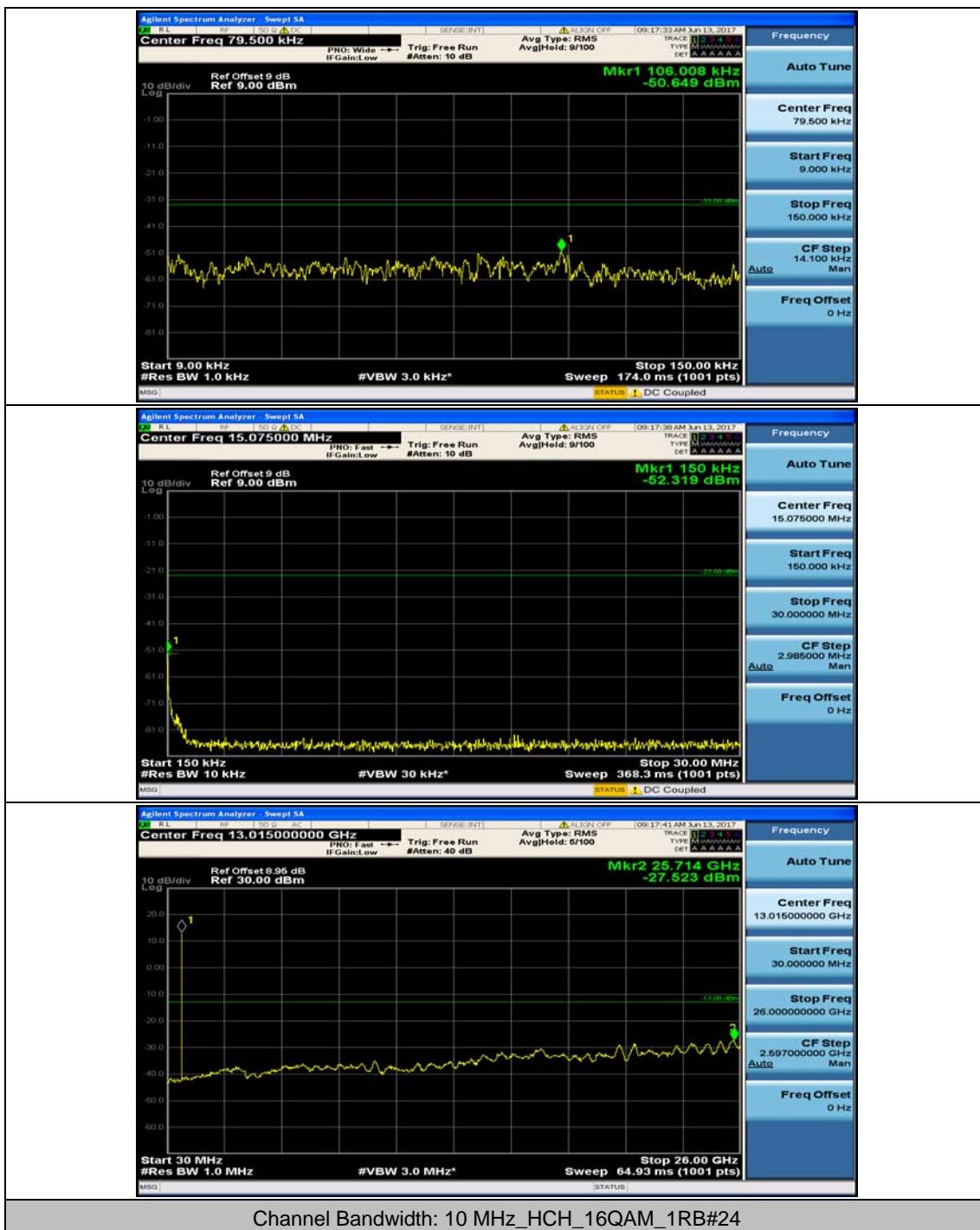
Channel Bandwidth: 10 MHz\_MCH\_16QAM\_1RB#0

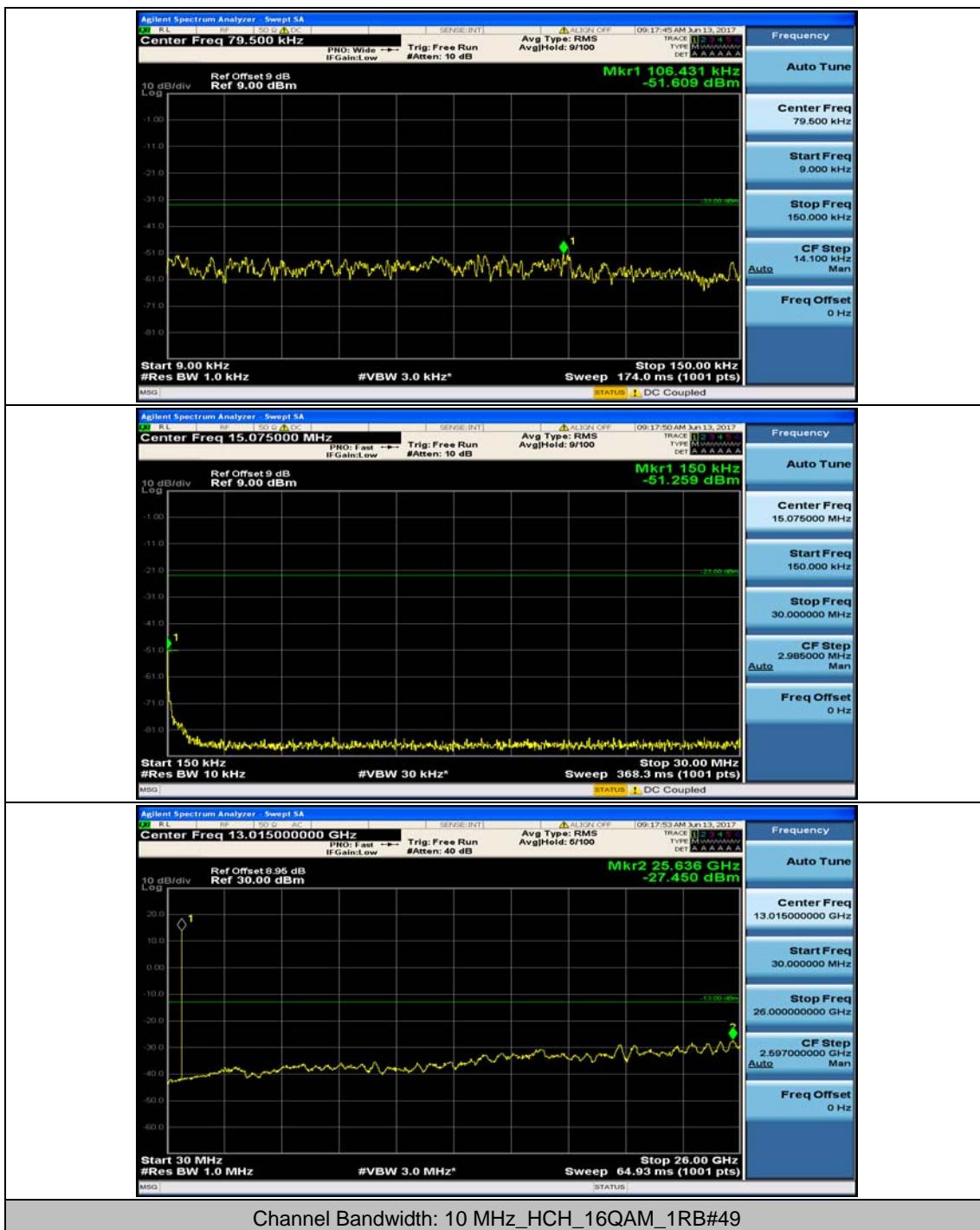


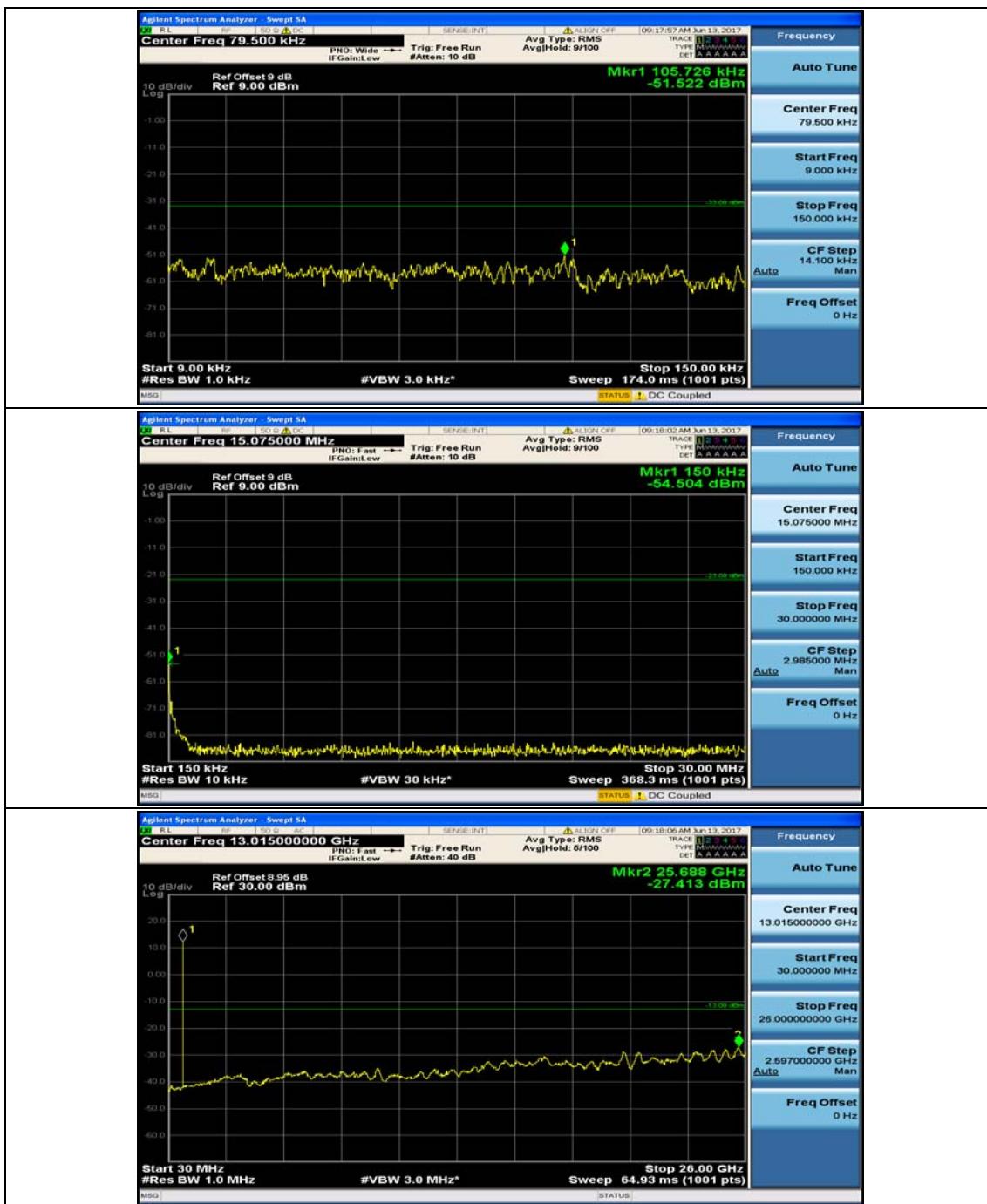




Channel Bandwidth: 10 MHz\_HCH\_16QAM\_1RB#0







## 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	1.3	0.001858	± 2.5	PASS
		VN	TN	-0.69	-0.000986	± 2.5	PASS
		VH	TN	0.79	0.001129	± 2.5	PASS
	MCH	VL	TN	4.21	0.005951	± 2.5	PASS
		VN	TN	4	0.005654	± 2.5	PASS
		VH	TN	-1.17	-0.001654	± 2.5	PASS
	HCH	VL	TN	2.04	0.002852	± 2.5	PASS
		VN	TN	3.07	0.004292	± 2.5	PASS
		VH	TN	-1.9	-0.002656	± 2.5	PASS
16QAM	LCH	VL	TN	-0.79	-0.001129	± 2.5	PASS
		VN	TN	-0.87	-0.001243	± 2.5	PASS
		VH	TN	4.92	0.007032	± 2.5	PASS
	MCH	VL	TN	-0.07	-0.000099	± 2.5	PASS
		VN	TN	2.11	0.002982	± 2.5	PASS
		VH	TN	0.16	0.000226	± 2.5	PASS
	HCH	VL	TN	4.33	0.006053	± 2.5	PASS
		VN	TN	3.59	0.005019	± 2.5	PASS
		VH	TN	1.44	0.002013	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.18	-0.001686	± 2.5	PASS
		VN	-20	-1.78	-0.002544	± 2.5	PASS
		VN	-10	0.81	0.001158	± 2.5	PASS
		VN	0	0.04	0.000057	± 2.5	PASS
		VN	10	-1.06	-0.001515	± 2.5	PASS
		VN	20	4.61	0.006589	± 2.5	PASS
		VN	30	3.18	0.004545	± 2.5	PASS
		VN	40	0.44	0.000629	± 2.5	PASS
		VN	50	-1.99	-0.002844	± 2.5	PASS
	MCH	VN	-30	-1.04	-0.001470	± 2.5	PASS
		VN	-20	1.7	0.002403	± 2.5	PASS

	HCH	VN	-10	1.09	0.001541	$\pm 2.5$	PASS
		VN	0	-1.8	-0.002544	$\pm 2.5$	PASS
		VN	10	1.38	0.001951	$\pm 2.5$	PASS
		VN	20	2.72	0.003845	$\pm 2.5$	PASS
		VN	30	3.45	0.004876	$\pm 2.5$	PASS
		VN	40	4.4	0.006219	$\pm 2.5$	PASS
		VN	50	3.76	0.005314	$\pm 2.5$	PASS
		VN	-30	4.08	0.005704	$\pm 2.5$	PASS
		VN	-20	0.96	0.001342	$\pm 2.5$	PASS
		VN	-10	-1.04	-0.001454	$\pm 2.5$	PASS
16QAM	LCH	VN	0	-0.86	-0.001202	$\pm 2.5$	PASS
		VN	10	-1.46	-0.002041	$\pm 2.5$	PASS
		VN	20	3.71	0.005187	$\pm 2.5$	PASS
		VN	30	-0.73	-0.001021	$\pm 2.5$	PASS
		VN	40	2.34	0.003271	$\pm 2.5$	PASS
		VN	50	3.94	0.005508	$\pm 2.5$	PASS
		VN	-30	2.94	0.004202	$\pm 2.5$	PASS
		VN	-20	2.91	0.004159	$\pm 2.5$	PASS
		VN	-10	1.08	0.001544	$\pm 2.5$	PASS
	MCH	VN	0	-0.74	-0.001058	$\pm 2.5$	PASS
		VN	10	-1.86	-0.002658	$\pm 2.5$	PASS
		VN	20	-0.48	-0.000686	$\pm 2.5$	PASS
		VN	30	2.28	0.003259	$\pm 2.5$	PASS
		VN	40	1.32	0.001887	$\pm 2.5$	PASS
		VN	50	-0.08	-0.000114	$\pm 2.5$	PASS
		VN	-30	2.57	0.003633	$\pm 2.5$	PASS
		VN	-20	2.11	0.002982	$\pm 2.5$	PASS
		VN	-10	1.44	0.002035	$\pm 2.5$	PASS
		VN	0	-1.15	-0.001625	$\pm 2.5$	PASS
	HCH	VN	10	0.5	0.000707	$\pm 2.5$	PASS
		VN	20	-0.16	-0.000226	$\pm 2.5$	PASS
		VN	30	2.47	0.003491	$\pm 2.5$	PASS
		VN	40	0.43	0.000608	$\pm 2.5$	PASS
		VN	50	3.43	0.004848	$\pm 2.5$	PASS
		VN	-30	2.05	0.002866	$\pm 2.5$	PASS
		VN	-20	1.55	0.002167	$\pm 2.5$	PASS

		VN	40	-0.77	-0.001076	$\pm 2.5$	PASS
		VN	50	-0.33	-0.000461	$\pm 2.5$	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	3.33	0.004754	$\pm 2.5$	PASS
		VN	TN	-1.12	-0.001599	$\pm 2.5$	PASS
		VH	TN	-0.89	-0.001271	$\pm 2.5$	PASS
	MCH	VL	TN	-0.51	-0.000721	$\pm 2.5$	PASS
		VN	TN	-0.78	-0.001102	$\pm 2.5$	PASS
		VH	TN	0.02	0.000028	$\pm 2.5$	PASS
	HCH	VL	TN	3.05	0.004269	$\pm 2.5$	PASS
		VN	TN	1.29	0.001805	$\pm 2.5$	PASS
		VH	TN	3.73	0.005220	$\pm 2.5$	PASS
16QAM	LCH	VL	TN	3.6	0.005139	$\pm 2.5$	PASS
		VN	TN	0.11	0.000157	$\pm 2.5$	PASS
		VH	TN	1.47	0.002099	$\pm 2.5$	PASS
	MCH	VL	TN	1.89	0.002671	$\pm 2.5$	PASS
		VN	TN	-0.54	-0.000763	$\pm 2.5$	PASS
		VH	TN	-0.5	-0.000707	$\pm 2.5$	PASS
	HCH	VL	TN	-1.42	-0.001987	$\pm 2.5$	PASS
		VN	TN	-0.97	-0.001358	$\pm 2.5$	PASS
		VH	TN	2.67	0.003737	$\pm 2.5$	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.91	0.005582	$\pm 2.5$	PASS
		VN	-20	1.86	0.002655	$\pm 2.5$	PASS
		VN	-10	3.11	0.004440	$\pm 2.5$	PASS
		VN	0	0.9	0.001285	$\pm 2.5$	PASS
		VN	10	4.57	0.006524	$\pm 2.5$	PASS
		VN	20	0.52	0.000742	$\pm 2.5$	PASS
		VN	30	4.54	0.006481	$\pm 2.5$	PASS
		VN	40	1.43	0.002041	$\pm 2.5$	PASS
		VN	50	0.18	0.000257	$\pm 2.5$	PASS
	MCH	VN	-30	0.03	0.000042	$\pm 2.5$	PASS
		VN	-20	1.4	0.001979	$\pm 2.5$	PASS
		VN	-10	4.67	0.006601	$\pm 2.5$	PASS

	HCH	VN	0	3.14	0.004438	$\pm 2.5$	PASS
		VN	10	-0.01	-0.000014	$\pm 2.5$	PASS
		VN	20	4.31	0.006092	$\pm 2.5$	PASS
		VN	30	3.17	0.004481	$\pm 2.5$	PASS
		VN	40	1.37	0.001936	$\pm 2.5$	PASS
		VN	50	2.02	0.002855	$\pm 2.5$	PASS
		VN	-30	0.62	0.000868	$\pm 2.5$	PASS
		VN	-20	-1.79	-0.002505	$\pm 2.5$	PASS
		VN	-10	1.21	0.001693	$\pm 2.5$	PASS
		VN	0	-1.26	-0.001763	$\pm 2.5$	PASS
		VN	10	2	0.002799	$\pm 2.5$	PASS
		VN	20	-1.53	-0.002141	$\pm 2.5$	PASS
		VN	30	-1.59	-0.002225	$\pm 2.5$	PASS
		VN	40	4.4	0.006158	$\pm 2.5$	PASS
		VN	50	3.98	0.005570	$\pm 2.5$	PASS
16QAM	LCH	VN	-30	2.96	0.004226	$\pm 2.5$	PASS
		VN	-20	3.37	0.004811	$\pm 2.5$	PASS
		VN	-10	2.04	0.002912	$\pm 2.5$	PASS
		VN	0	3.32	0.004739	$\pm 2.5$	PASS
		VN	10	2.33	0.003326	$\pm 2.5$	PASS
		VN	20	-0.21	-0.000300	$\pm 2.5$	PASS
		VN	30	-1.68	-0.002398	$\pm 2.5$	PASS
		VN	40	2.08	0.002969	$\pm 2.5$	PASS
		VN	50	3.03	0.004325	$\pm 2.5$	PASS
	MCH	VN	-30	-0.33	-0.000466	$\pm 2.5$	PASS
		VN	-20	-1.75	-0.002473	$\pm 2.5$	PASS
		VN	-10	1.99	0.002813	$\pm 2.5$	PASS
		VN	0	1.87	0.002643	$\pm 2.5$	PASS
		VN	10	4.42	0.006247	$\pm 2.5$	PASS
		VN	20	-0.78	-0.001102	$\pm 2.5$	PASS
		VN	30	4.07	0.005753	$\pm 2.5$	PASS
		VN	40	1.46	0.002064	$\pm 2.5$	PASS
		VN	50	2.63	0.003717	$\pm 2.5$	PASS
	HCH	VN	-30	2.64	0.003695	$\pm 2.5$	PASS
		VN	-20	4.01	0.005612	$\pm 2.5$	PASS
		VN	-10	4.55	0.006368	$\pm 2.5$	PASS
		VN	0	2.36	0.003303	$\pm 2.5$	PASS
		VN	10	4.16	0.005822	$\pm 2.5$	PASS
		VN	20	3.65	0.005108	$\pm 2.5$	PASS
		VN	30	-1.33	-0.001861	$\pm 2.5$	PASS
		VN	40	2.2	0.003079	$\pm 2.5$	PASS

		VN	50	-0.64	-0.000896	$\pm 2.5$	PASS
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## 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	-1.5	-0.002138	$\pm 2.5$	PASS
		VN	TN	3.27	0.004661	$\pm 2.5$	PASS
		VH	TN	2.8	0.003991	$\pm 2.5$	PASS
	MCH	VL	TN	1.5	0.002120	$\pm 2.5$	PASS
		VN	TN	4.23	0.005979	$\pm 2.5$	PASS
		VH	TN	0.2	0.000283	$\pm 2.5$	PASS
	HCH	VL	TN	2.15	0.003013	$\pm 2.5$	PASS
		VN	TN	-1.78	-0.002495	$\pm 2.5$	PASS
		VH	TN	-1.17	-0.001640	$\pm 2.5$	PASS
16QAM	LCH	VL	TN	1.22	0.001739	$\pm 2.5$	PASS
		VN	TN	0.83	0.001183	$\pm 2.5$	PASS
		VH	TN	1.65	0.002352	$\pm 2.5$	PASS
	MCH	VL	TN	4.62	0.006530	$\pm 2.5$	PASS
		VN	TN	0.95	0.001343	$\pm 2.5$	PASS
		VH	TN	1.78	0.002516	$\pm 2.5$	PASS
	HCH	VL	TN	-0.77	-0.001079	$\pm 2.5$	PASS
		VN	TN	-0.1	-0.000140	$\pm 2.5$	PASS
		VH	TN	2.36	0.003308	$\pm 2.5$	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.03	-0.001468	$\pm 2.5$	PASS
		VN	-20	1.2	0.001711	$\pm 2.5$	PASS
		VN	-10	3.21	0.004576	$\pm 2.5$	PASS
		VN	0	3.94	0.005617	$\pm 2.5$	PASS
		VN	10	-0.99	-0.001411	$\pm 2.5$	PASS
		VN	20	1.95	0.002780	$\pm 2.5$	PASS
		VN	30	3.68	0.005246	$\pm 2.5$	PASS
		VN	40	-1.96	-0.002794	$\pm 2.5$	PASS
		VN	50	3.78	0.005388	$\pm 2.5$	PASS
	MCH	VN	-30	1.63	0.002304	$\pm 2.5$	PASS
		VN	-20	3.25	0.004594	$\pm 2.5$	PASS
		VN	-10	-0.14	-0.000198	$\pm 2.5$	PASS
		VN	0	0.47	0.000664	$\pm 2.5$	PASS

		VN	10	1.32	0.001866	$\pm 2.5$	PASS
		VN	20	-0.43	-0.000608	$\pm 2.5$	PASS
		VN	30	0.94	0.001329	$\pm 2.5$	PASS
		VN	40	-0.8	-0.001131	$\pm 2.5$	PASS
		VN	50	3.71	0.005244	$\pm 2.5$	PASS
		VN	-30	3.05	0.004275	$\pm 2.5$	PASS
		VN	-20	1.28	0.001794	$\pm 2.5$	PASS
		VN	-10	4.54	0.006363	$\pm 2.5$	PASS
		VN	0	-0.64	-0.000897	$\pm 2.5$	PASS
		VN	10	0.05	0.000070	$\pm 2.5$	PASS
	HCH	VN	20	0.34	0.000477	$\pm 2.5$	PASS
		VN	30	-1.98	-0.002775	$\pm 2.5$	PASS
		VN	40	4.47	0.006265	$\pm 2.5$	PASS
		VN	50	1.87	0.002621	$\pm 2.5$	PASS
		VN	-30	4.78	0.006814	$\pm 2.5$	PASS
		VN	-20	2.32	0.003307	$\pm 2.5$	PASS
		VN	-10	-1.49	-0.002124	$\pm 2.5$	PASS
		VN	0	-1.51	-0.002153	$\pm 2.5$	PASS
		VN	10	3.12	0.004448	$\pm 2.5$	PASS
		VN	20	4.1	0.005845	$\pm 2.5$	PASS
	LCH	VN	30	-0.25	-0.000356	$\pm 2.5$	PASS
		VN	40	3.28	0.004676	$\pm 2.5$	PASS
		VN	50	3.88	0.005531	$\pm 2.5$	PASS
		VN	-30	0.36	0.000509	$\pm 2.5$	PASS
		VN	-20	0.22	0.000311	$\pm 2.5$	PASS
		VN	-10	1.96	0.002770	$\pm 2.5$	PASS
		VN	0	4.07	0.005753	$\pm 2.5$	PASS
		VN	10	-1.14	-0.001611	$\pm 2.5$	PASS
		VN	20	-0.73	-0.001032	$\pm 2.5$	PASS
		VN	30	0.05	0.000071	$\pm 2.5$	PASS
	MCH	VN	40	3.23	0.004565	$\pm 2.5$	PASS
		VN	50	-1.78	-0.002516	$\pm 2.5$	PASS
		VN	-30	-1.39	-0.001948	$\pm 2.5$	PASS
		VN	-20	3.73	0.005228	$\pm 2.5$	PASS
		VN	-10	1.22	0.001710	$\pm 2.5$	PASS
		VN	0	1.6	0.002242	$\pm 2.5$	PASS
		VN	10	2.09	0.002929	$\pm 2.5$	PASS
		VN	20	1.73	0.002425	$\pm 2.5$	PASS
		VN	30	-1.96	-0.002747	$\pm 2.5$	PASS
		VN	40	-0.68	-0.000953	$\pm 2.5$	PASS
	HCH	VN	50	1.67	0.002341	$\pm 2.5$	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	0.43	0.000611	± 2.5	PASS
		VN	TN	-0.61	-0.000866	± 2.5	PASS
		VH	TN	4.86	0.006903	± 2.5	PASS
	MCH	VL	TN	-1.05	-0.001484	± 2.5	PASS
		VN	TN	4.83	0.006827	± 2.5	PASS
		VH	TN	0.88	0.001244	± 2.5	PASS
	HCH	VL	TN	1.07	0.001505	± 2.5	PASS
		VN	TN	3.56	0.005007	± 2.5	PASS
		VH	TN	4.73	0.006653	± 2.5	PASS
16QAM	LCH	VL	TN	1.43	0.002031	± 2.5	PASS
		VN	TN	-1.05	-0.001491	± 2.5	PASS
		VH	TN	2.5	0.003551	± 2.5	PASS
	MCH	VL	TN	-1.53	-0.002163	± 2.5	PASS
		VN	TN	1.39	0.001965	± 2.5	PASS
		VH	TN	0.82	0.001159	± 2.5	PASS
	HCH	VL	TN	0.94	0.001322	± 2.5	PASS
		VN	TN	1.27	0.001786	± 2.5	PASS
		VH	TN	2.06	0.002897	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	2.98	0.004233	± 2.5	PASS
		VN	-20	3.92	0.005568	± 2.5	PASS
		VN	-10	-1.83	-0.002599	± 2.5	PASS
		VN	0	3.19	0.004531	± 2.5	PASS
		VN	10	2.72	0.003864	± 2.5	PASS
		VN	20	1.76	0.002500	± 2.5	PASS
		VN	30	4.31	0.006122	± 2.5	PASS
		VN	40	1.68	0.002386	± 2.5	PASS
		VN	50	1.66	0.002358	± 2.5	PASS
	MCH	VN	-30	2.86	0.004042	± 2.5	PASS
		VN	-20	0.84	0.001187	± 2.5	PASS
		VN	-10	4.09	0.005781	± 2.5	PASS
		VN	0	3.98	0.005625	± 2.5	PASS
		VN	10	2.6	0.003675	± 2.5	PASS
		VN	20	-0.91	-0.001286	± 2.5	PASS

		VN	30	0.42	0.000594	$\pm 2.5$	PASS
		VN	40	2.59	0.003661	$\pm 2.5$	PASS
		VN	50	-1.25	-0.001767	$\pm 2.5$	PASS
	HCH	VN	-30	-0.75	-0.001055	$\pm 2.5$	PASS
		VN	-20	3.58	0.005035	$\pm 2.5$	PASS
		VN	-10	-0.26	-0.000366	$\pm 2.5$	PASS
		VN	0	2.81	0.003952	$\pm 2.5$	PASS
		VN	10	2.07	0.002911	$\pm 2.5$	PASS
		VN	20	0.15	0.000211	$\pm 2.5$	PASS
		VN	30	-0.08	-0.000113	$\pm 2.5$	PASS
	LCH	VN	40	-1.33	-0.001871	$\pm 2.5$	PASS
		VN	50	-1.49	-0.002096	$\pm 2.5$	PASS
	MCH	VN	-30	0.96	0.001364	$\pm 2.5$	PASS
		VN	-20	-1.63	-0.002315	$\pm 2.5$	PASS
		VN	-10	2.39	0.003395	$\pm 2.5$	PASS
		VN	0	1.65	0.002344	$\pm 2.5$	PASS
		VN	10	0.38	0.000540	$\pm 2.5$	PASS
		VN	20	-1.5	-0.002131	$\pm 2.5$	PASS
		VN	30	-1.52	-0.002159	$\pm 2.5$	PASS
		VN	40	4.79	0.006804	$\pm 2.5$	PASS
		VN	50	-1.6	-0.002273	$\pm 2.5$	PASS
	HCH	VN	-30	-0.17	-0.000240	$\pm 2.5$	PASS
		VN	-20	4.21	0.005951	$\pm 2.5$	PASS
		VN	-10	-1.76	-0.002488	$\pm 2.5$	PASS
		VN	0	3.48	0.004919	$\pm 2.5$	PASS
		VN	10	-0.37	-0.000523	$\pm 2.5$	PASS
		VN	20	1.97	0.002784	$\pm 2.5$	PASS
		VN	30	-1.65	-0.002332	$\pm 2.5$	PASS
		VN	40	1.74	0.002459	$\pm 2.5$	PASS
		VN	50	3.82	0.005399	$\pm 2.5$	PASS
		VN	-30	1.33	0.001871	$\pm 2.5$	PASS