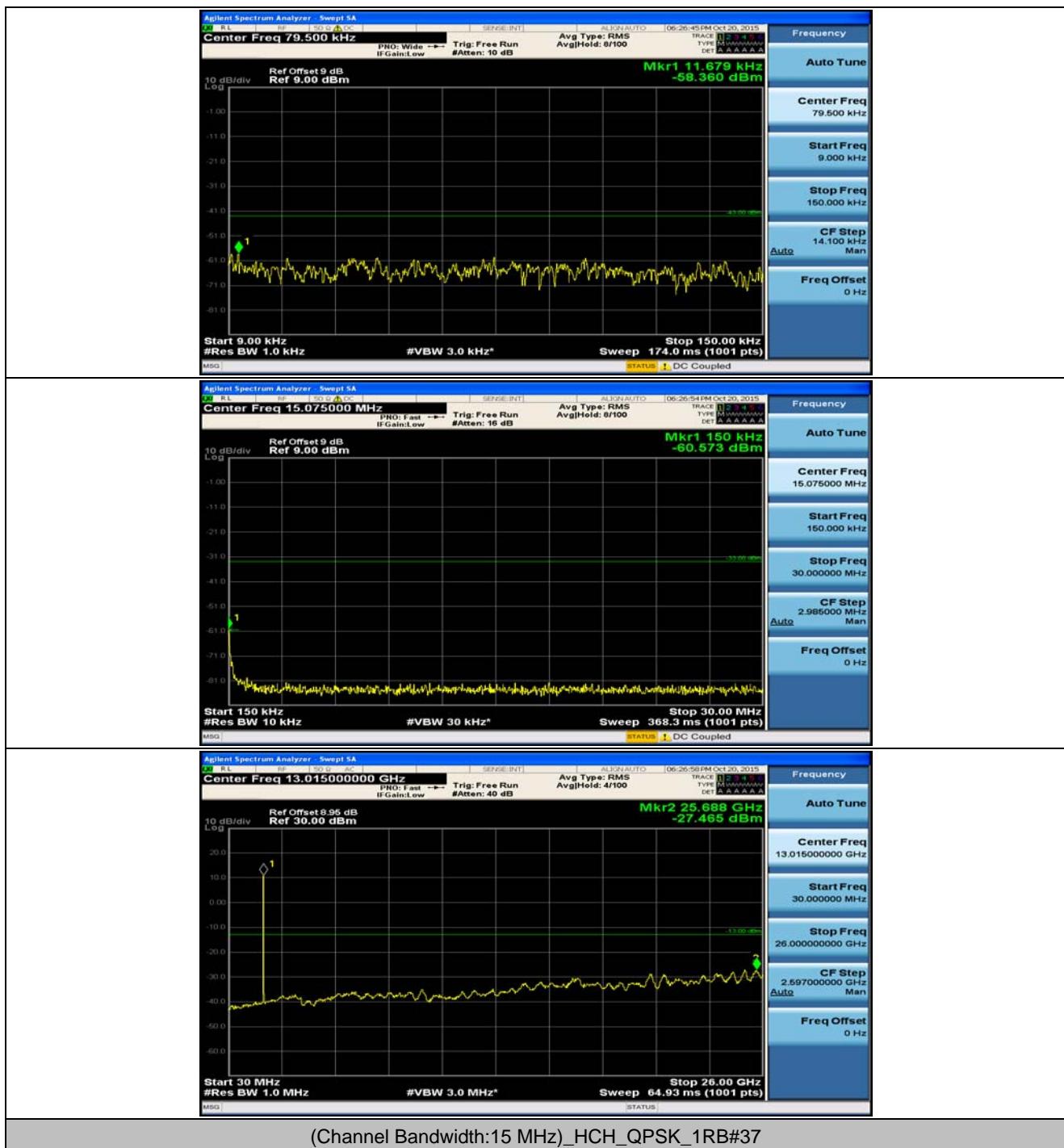
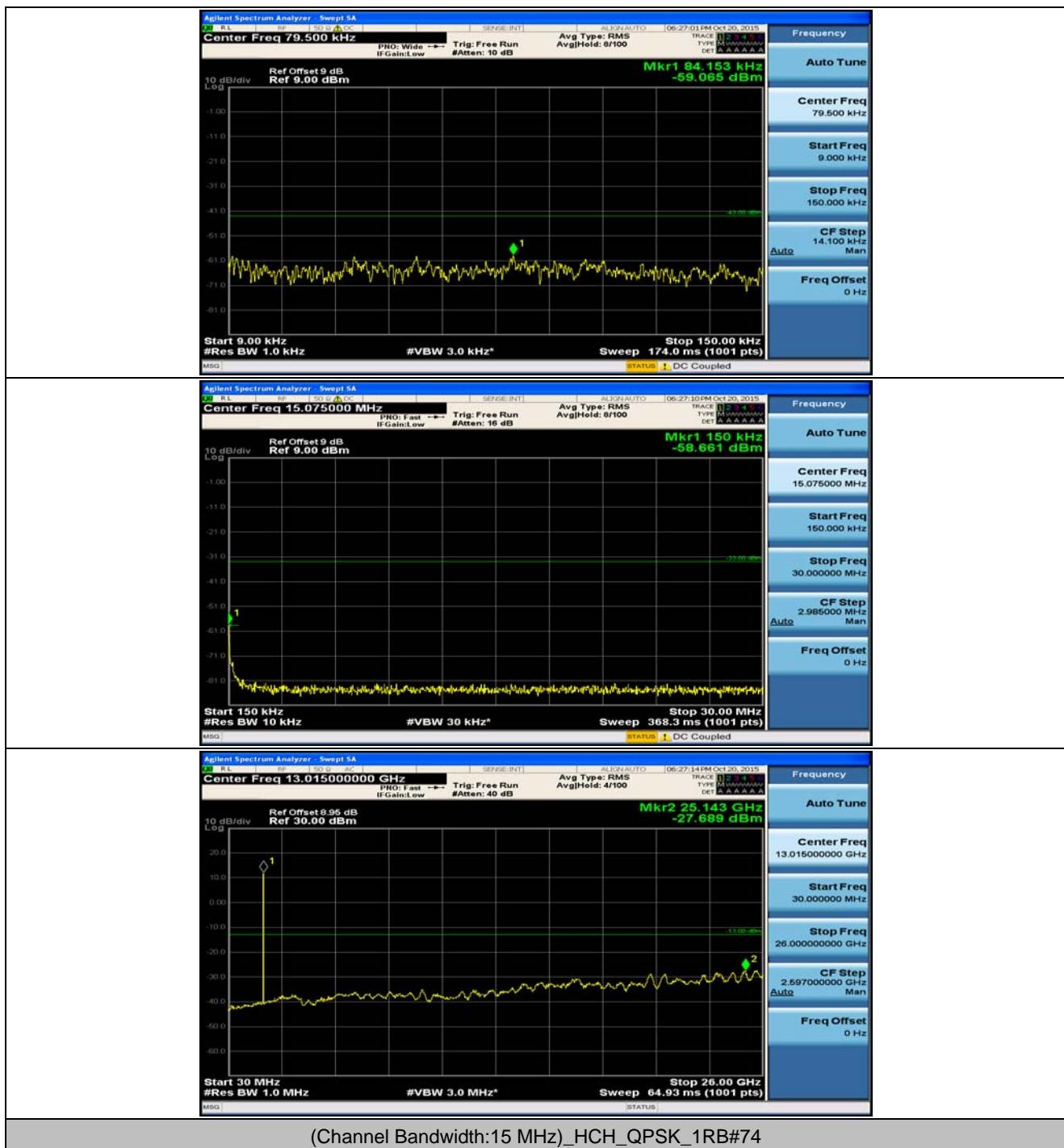
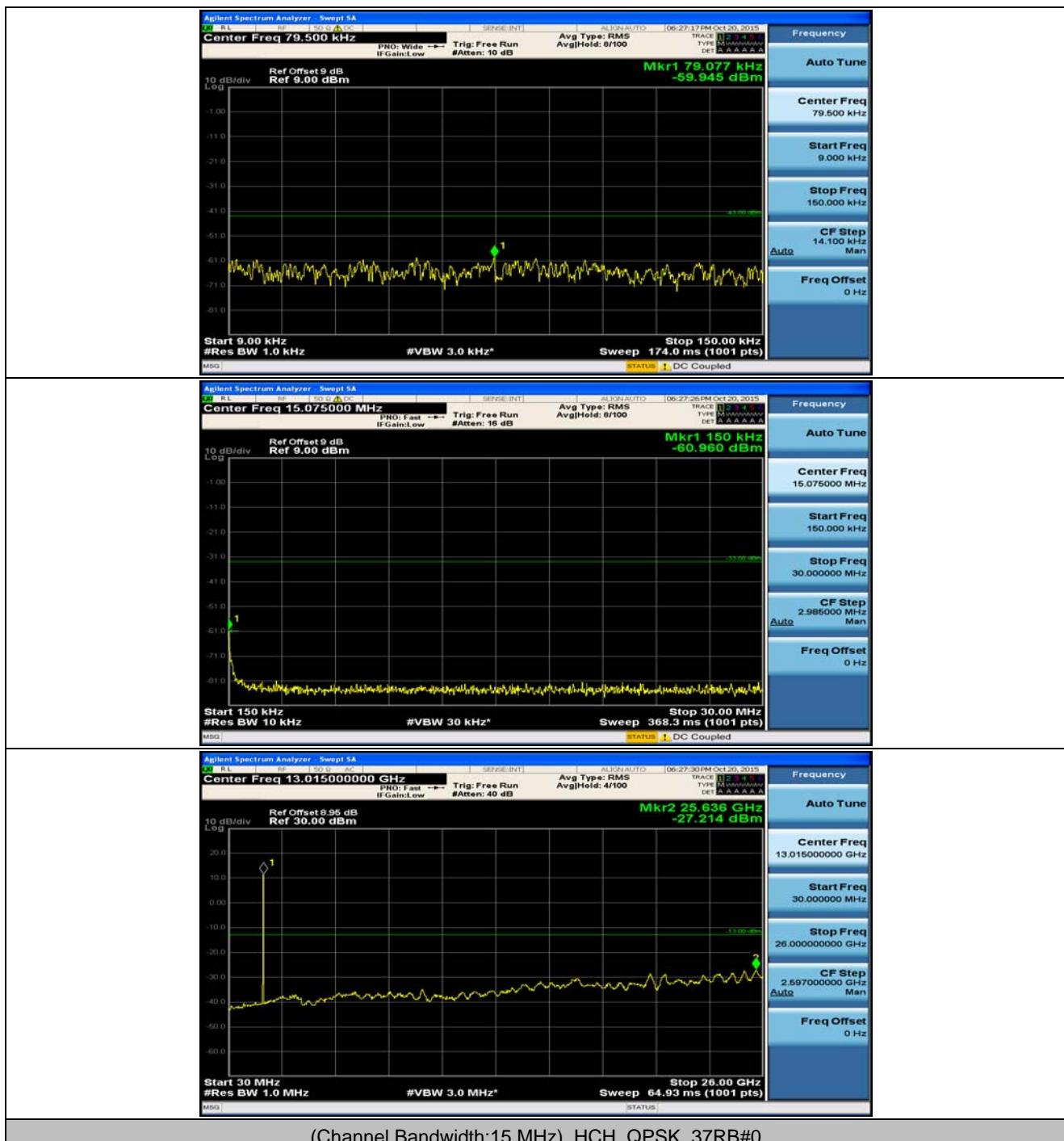


(Channel Bandwidth:15 MHz)\_HCH\_QPSK\_1RB#0

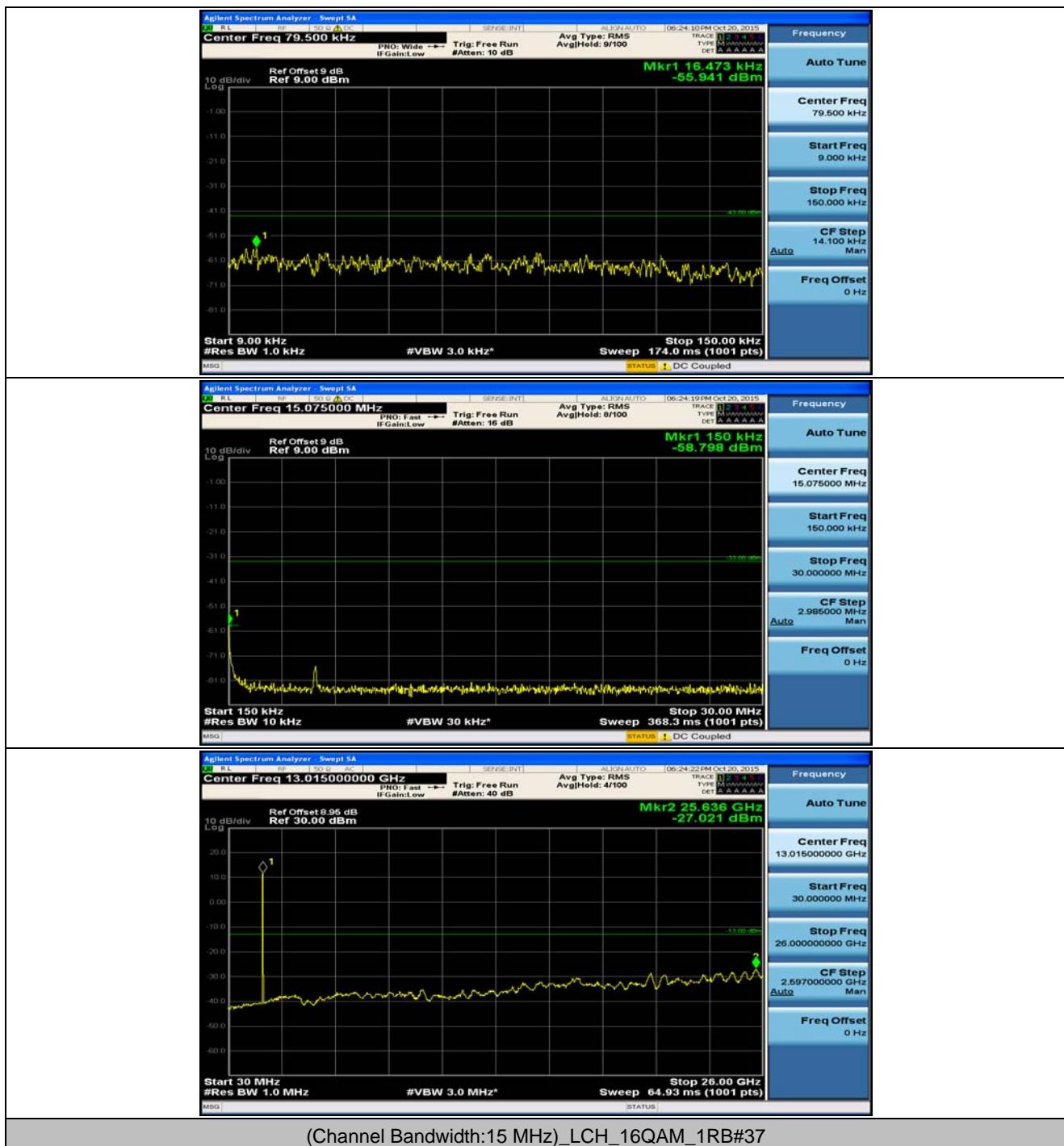


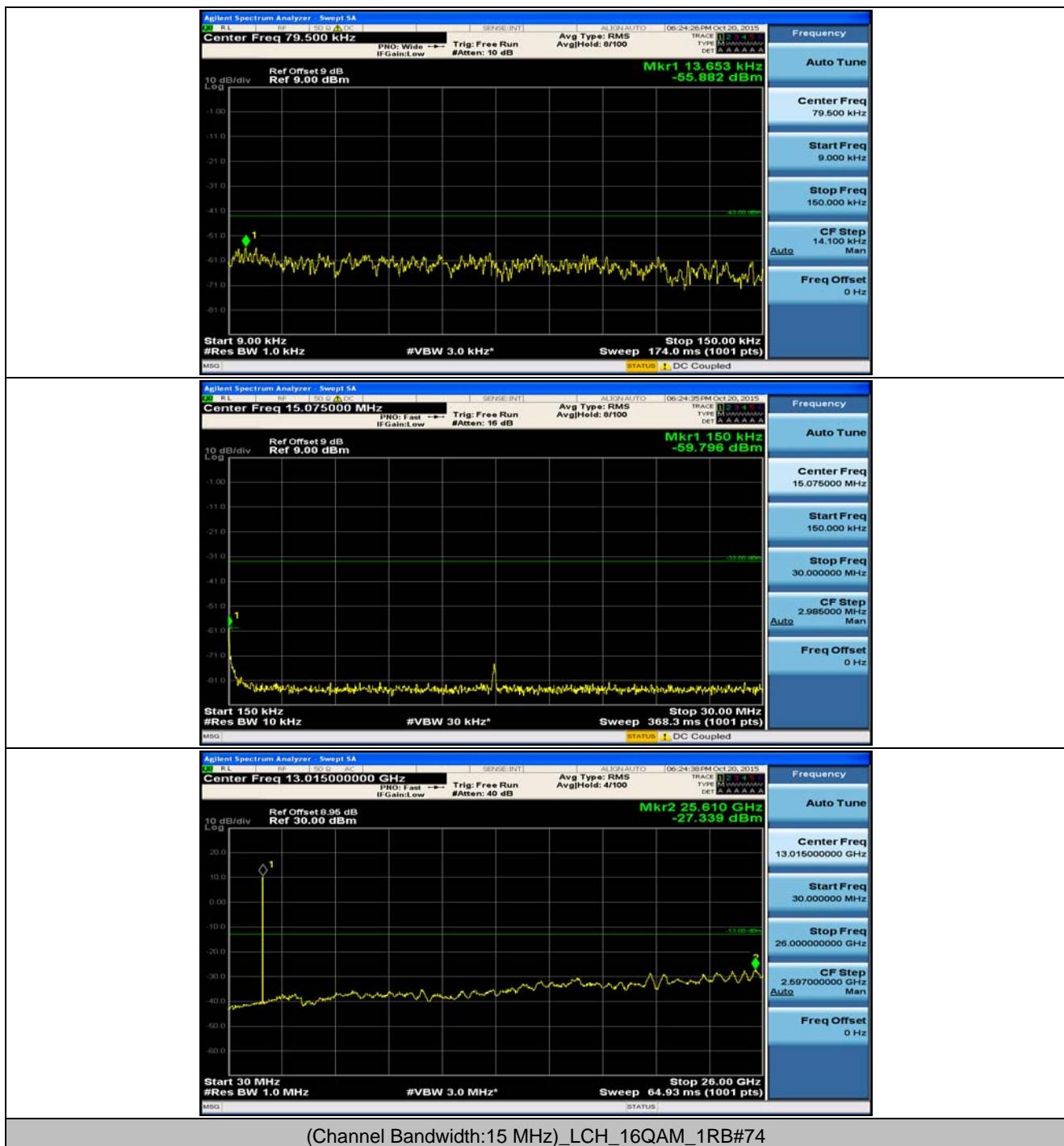


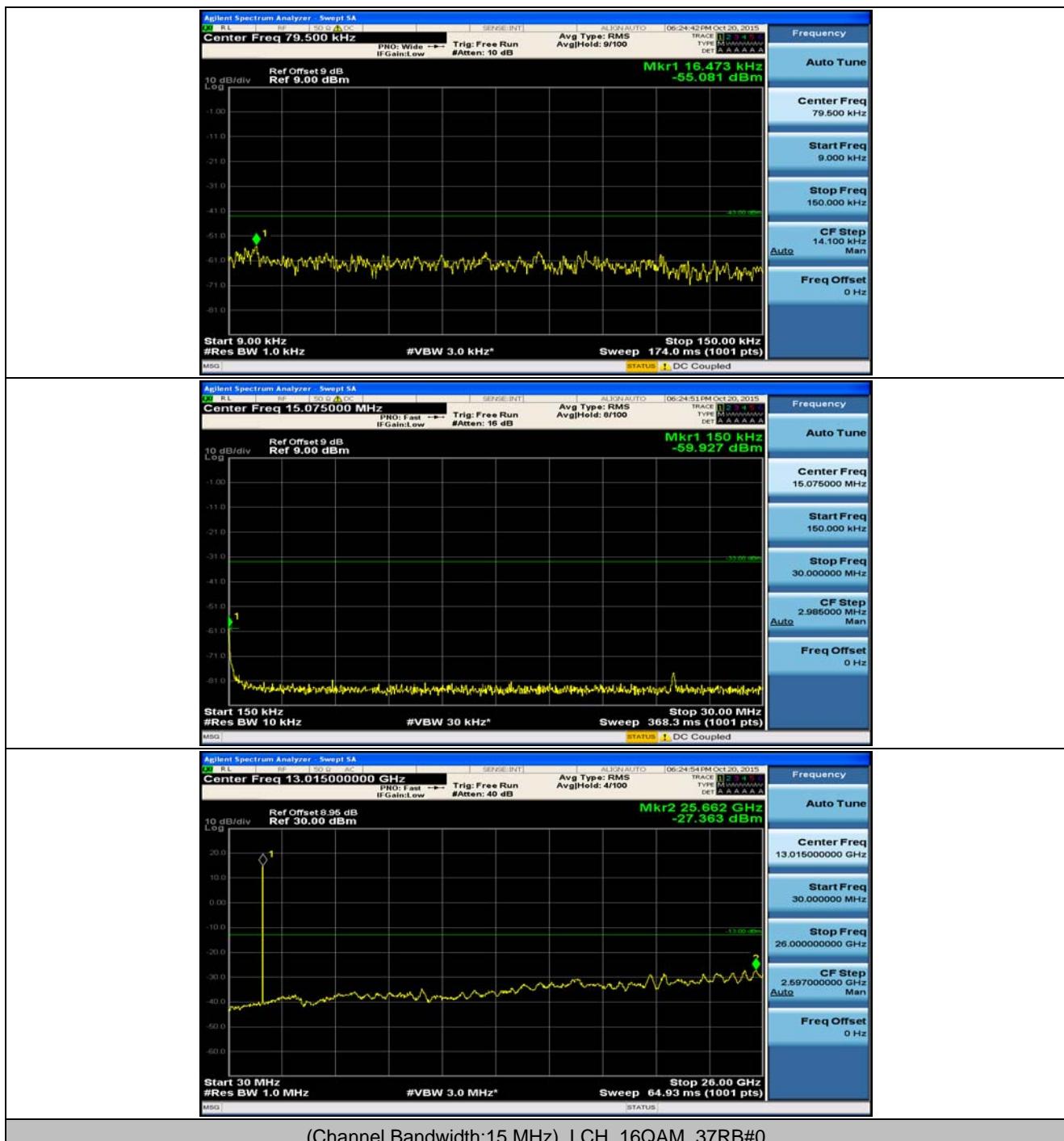


(Channel Bandwidth:15 MHz)\_HCH\_QPSK\_37RB#0

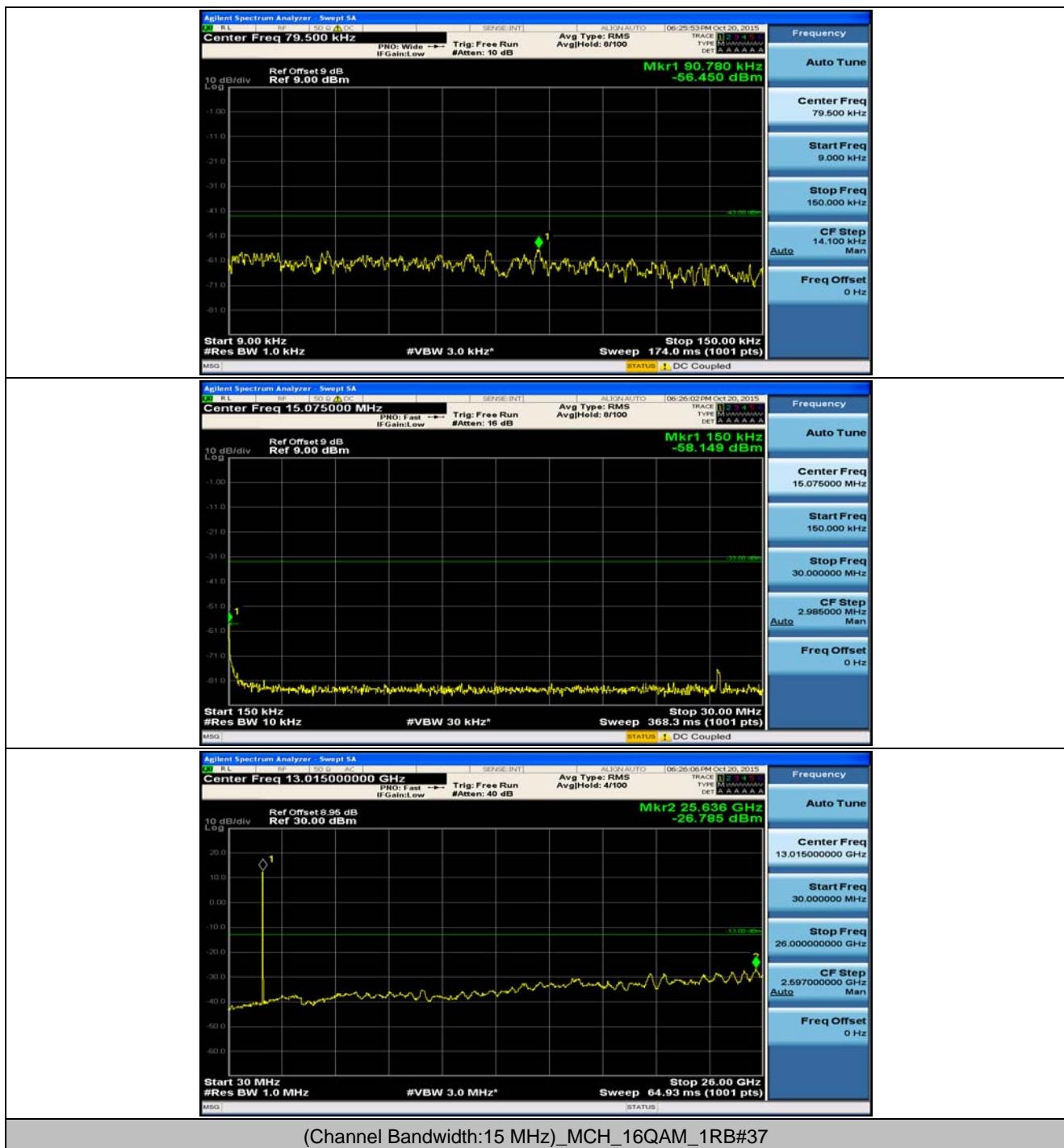
(Channel Bandwidth:15 MHz)\_LCH\_16QAM\_1RB#0

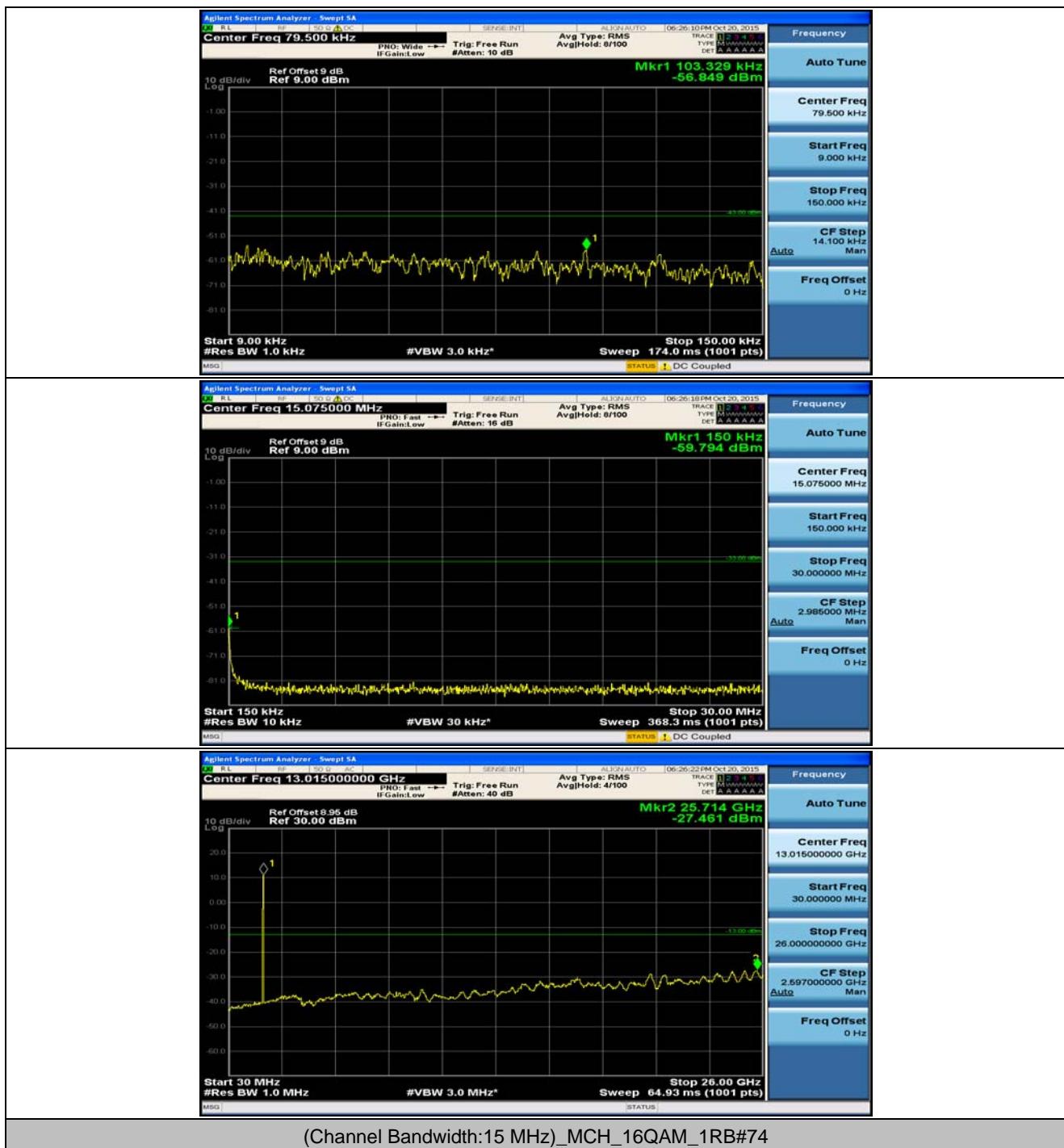


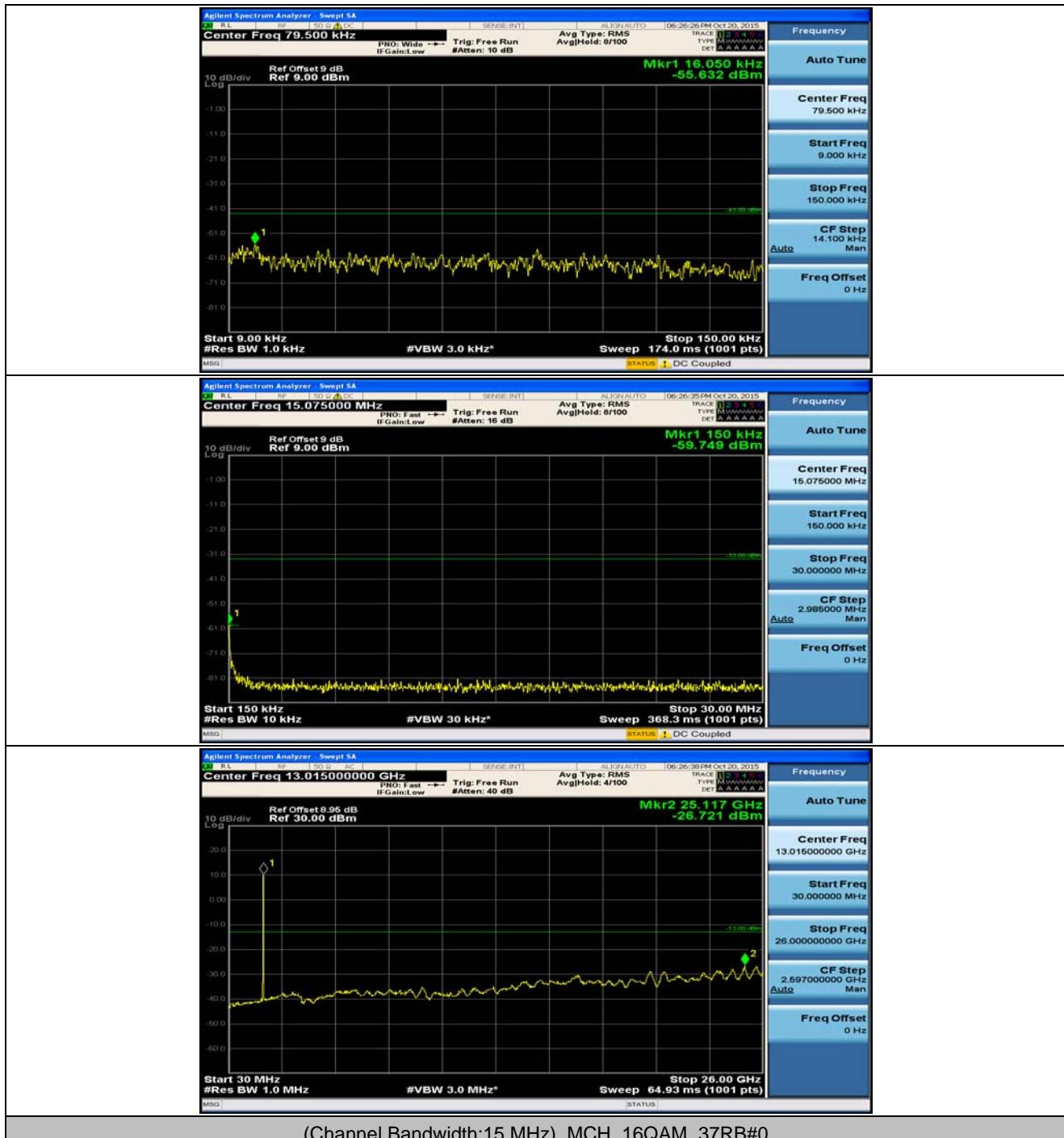




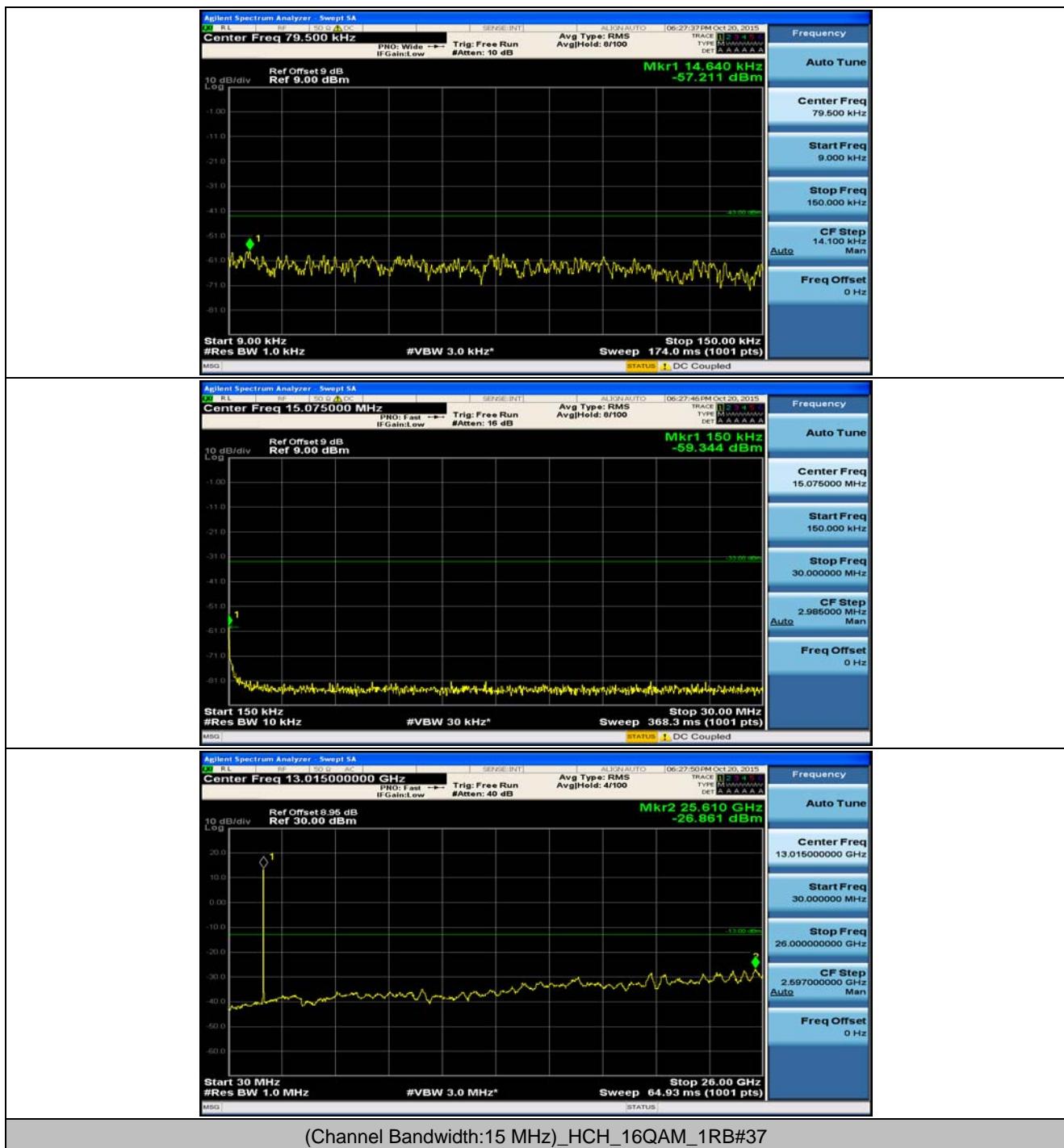
(Channel Bandwidth:15 MHz) MCH\_16QAM\_1RB#0

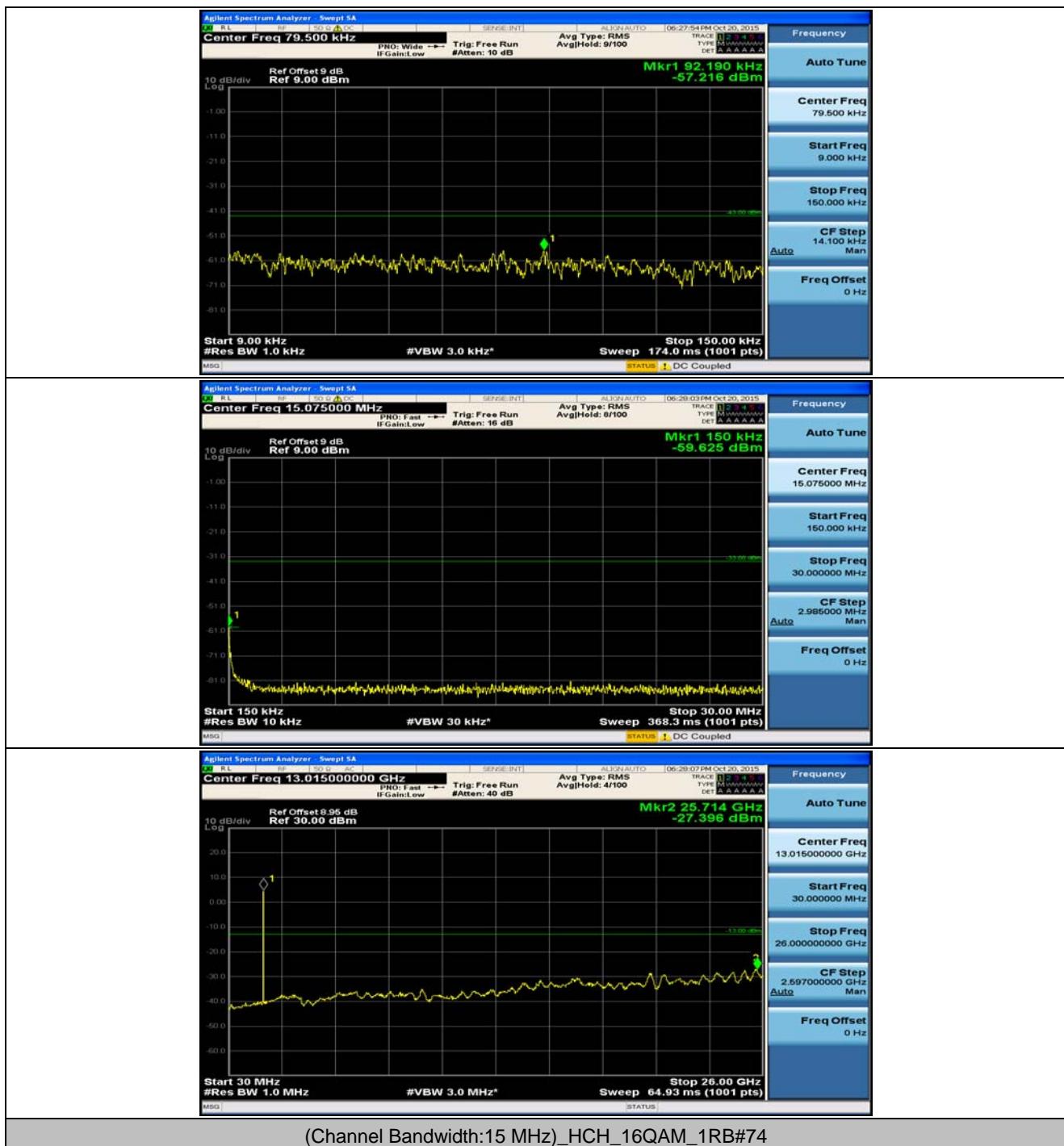


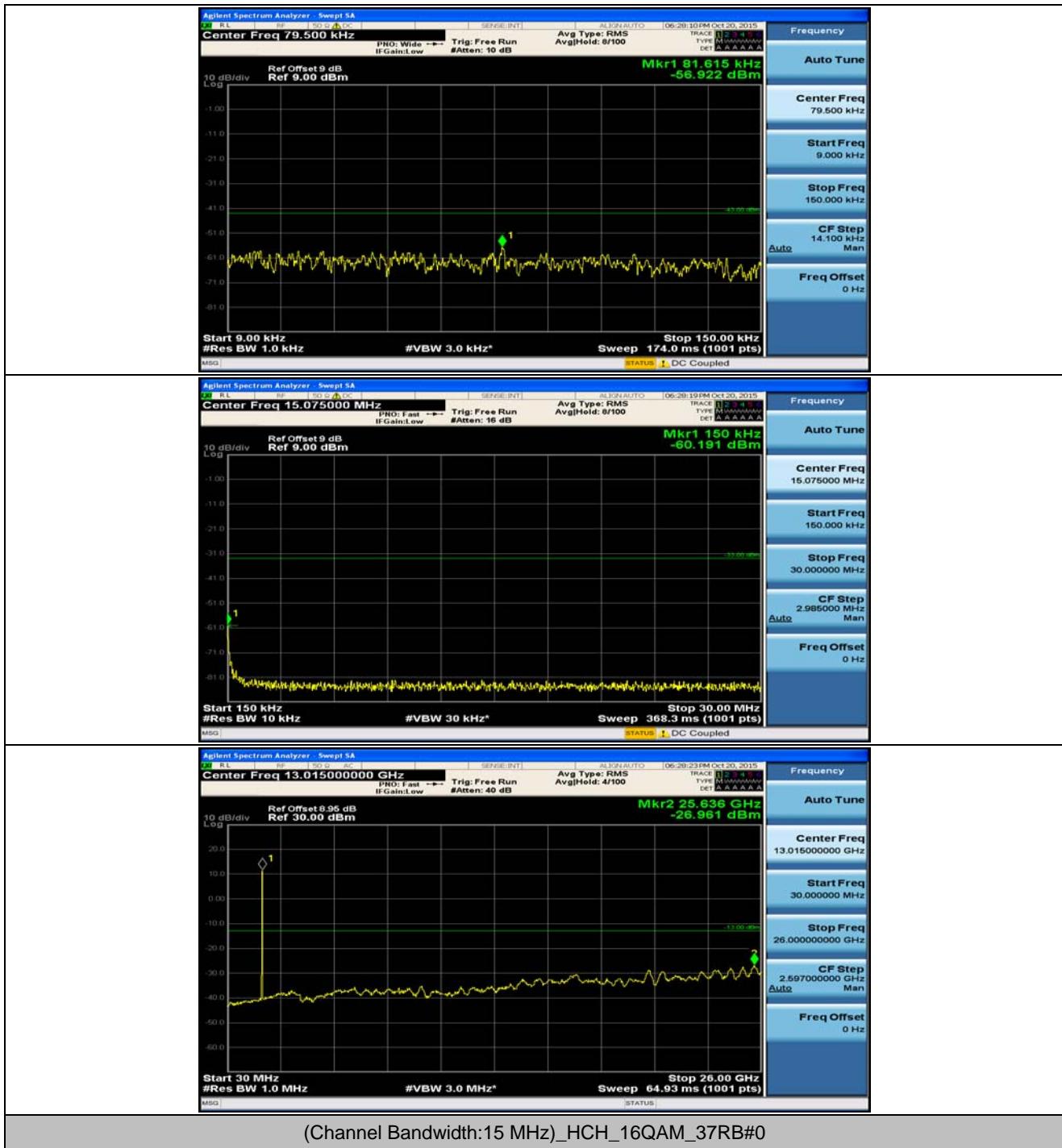




(Channel Bandwidth:15 MHz)\_HCH\_16QAM\_1RB#0

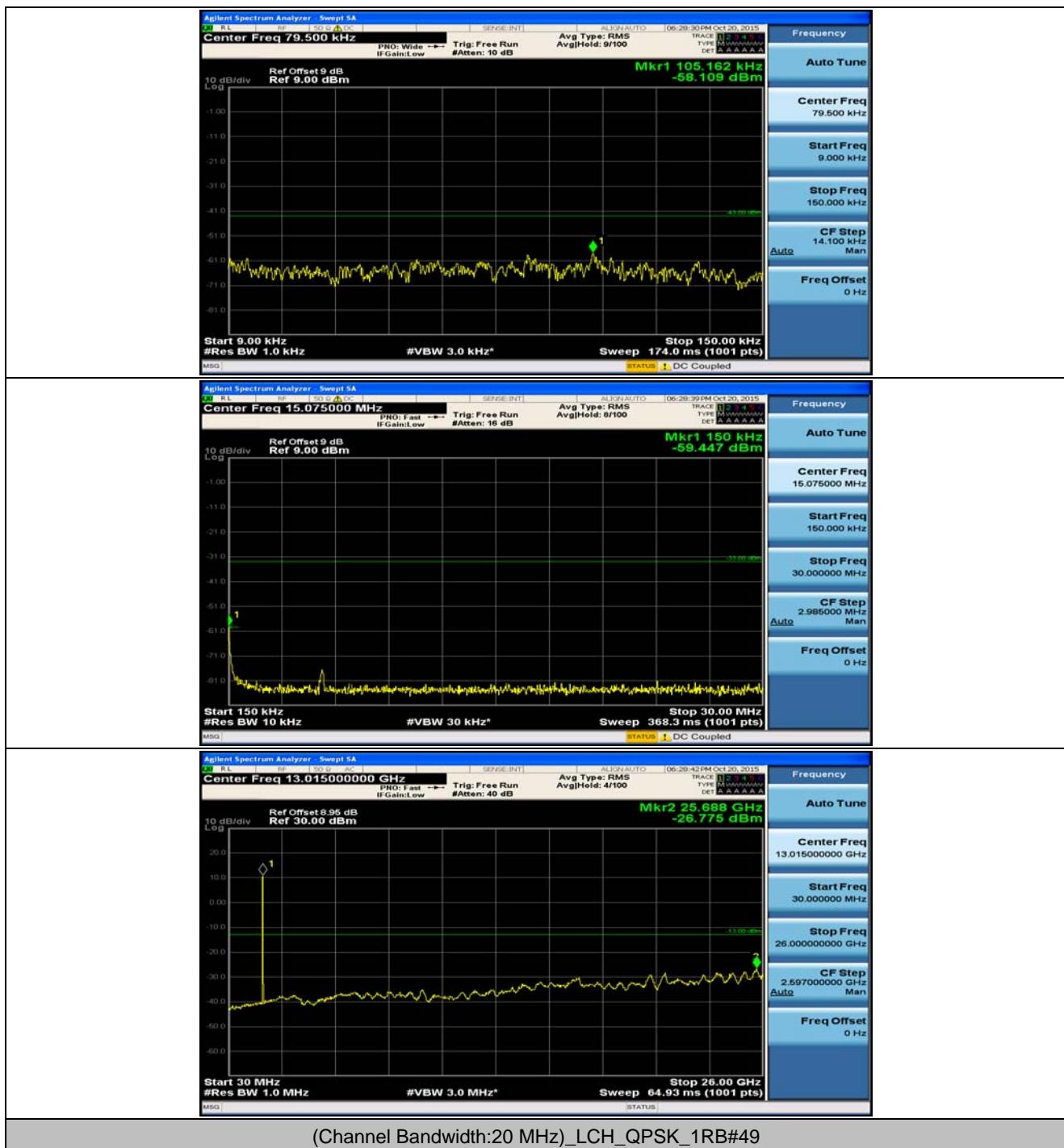


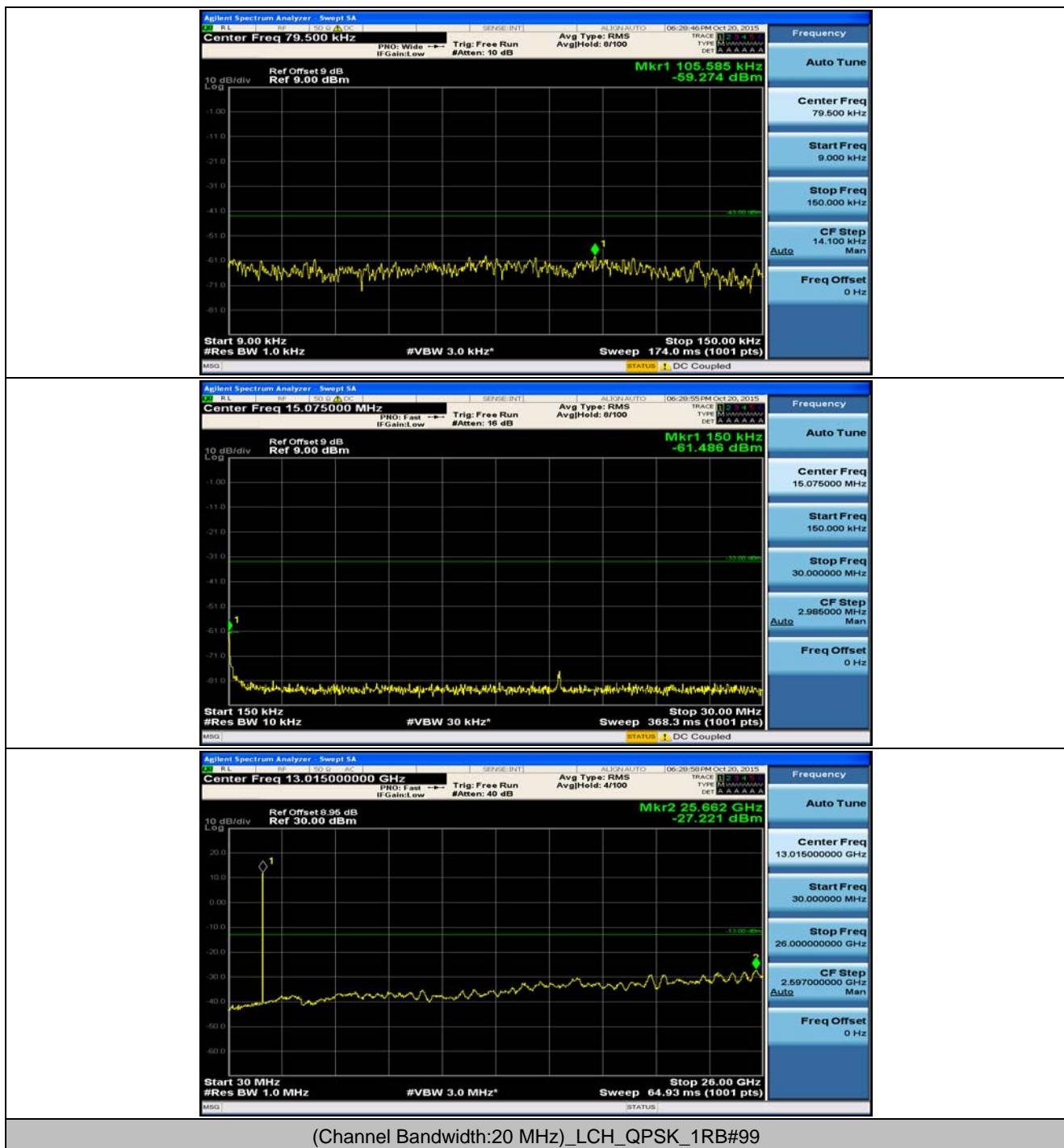


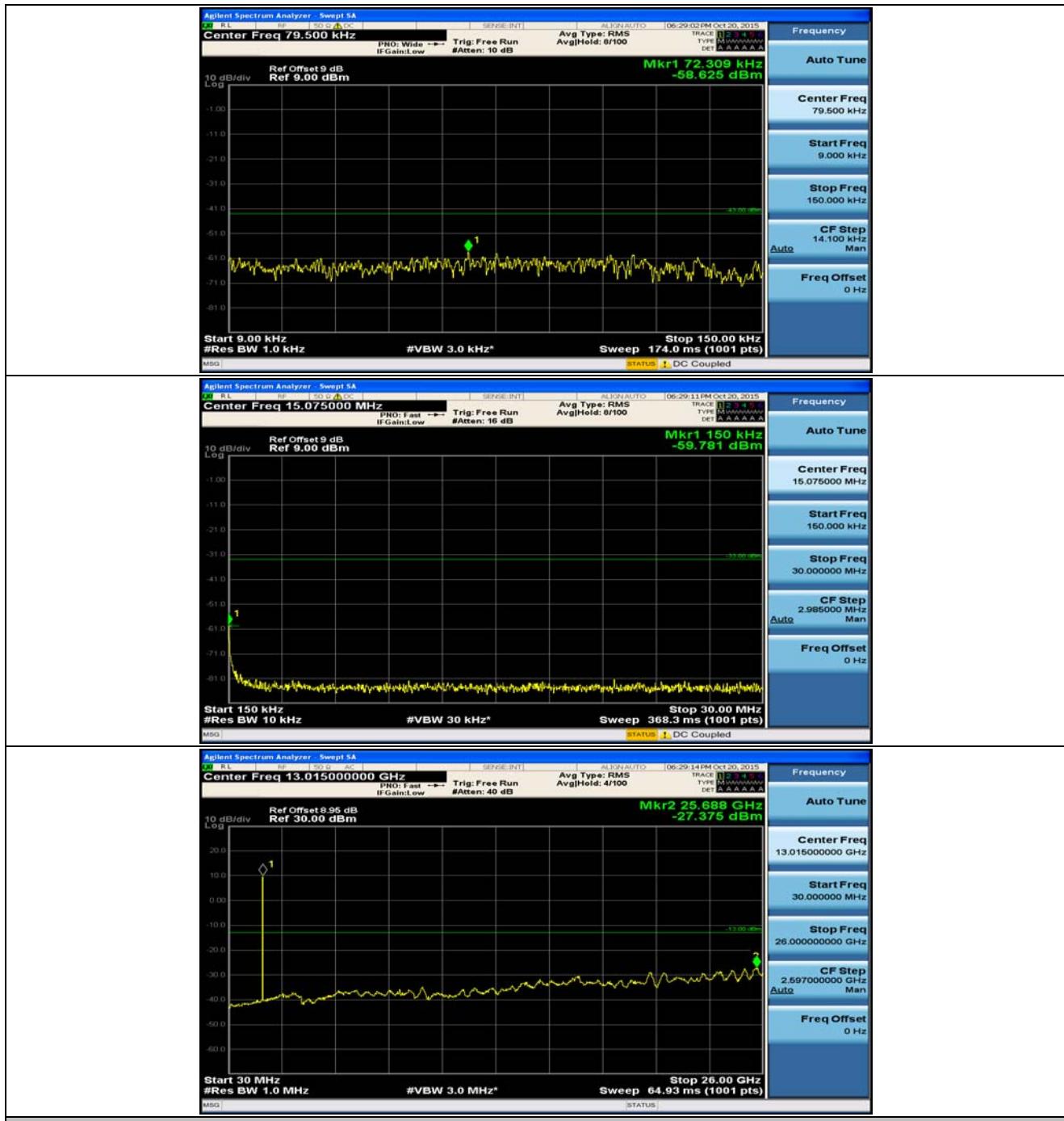


## Channel Bandwidth: 20 MHz

(Channel Bandwidth:20 MHz)\_LCH\_QPSK\_1RB#0

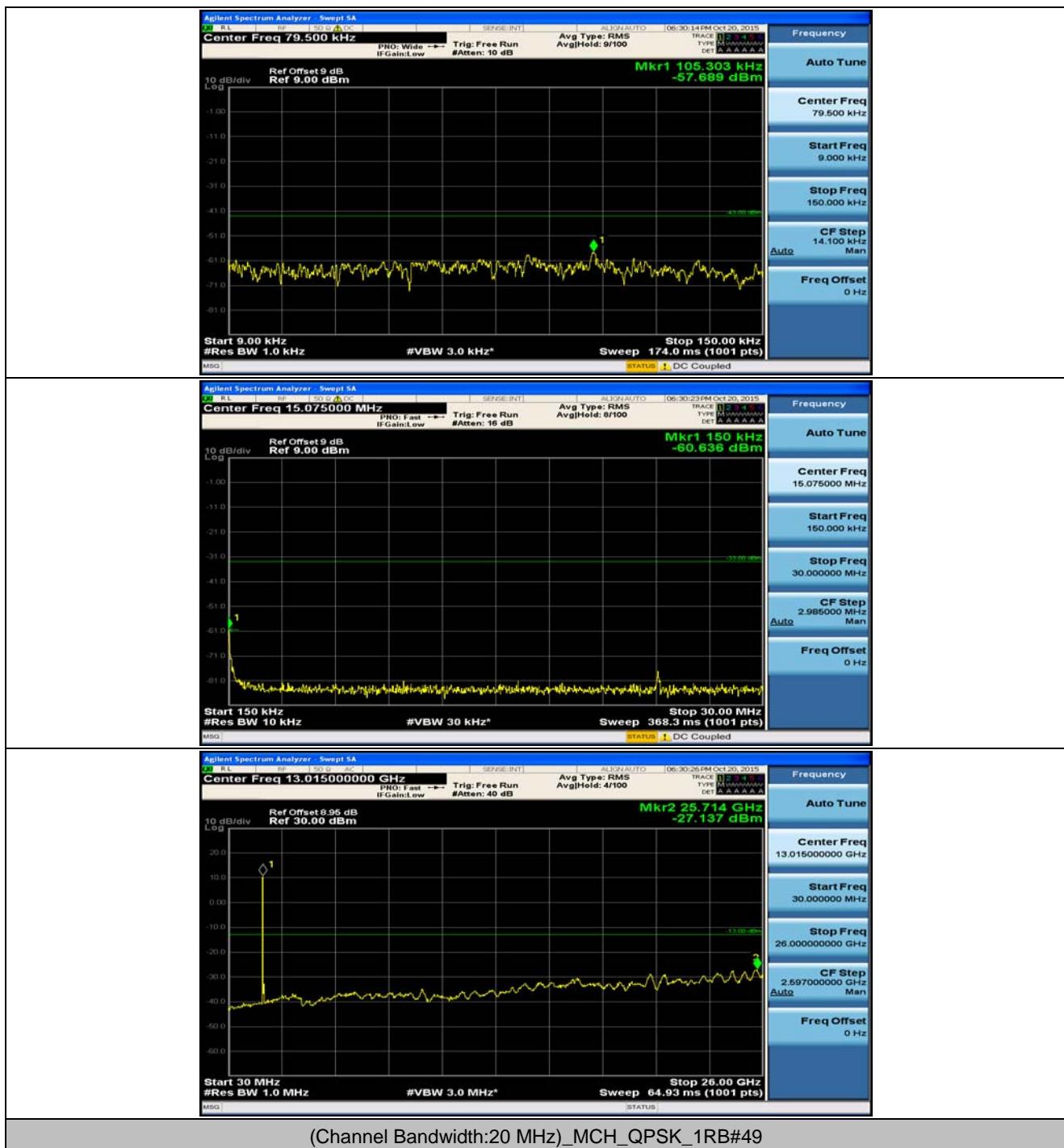


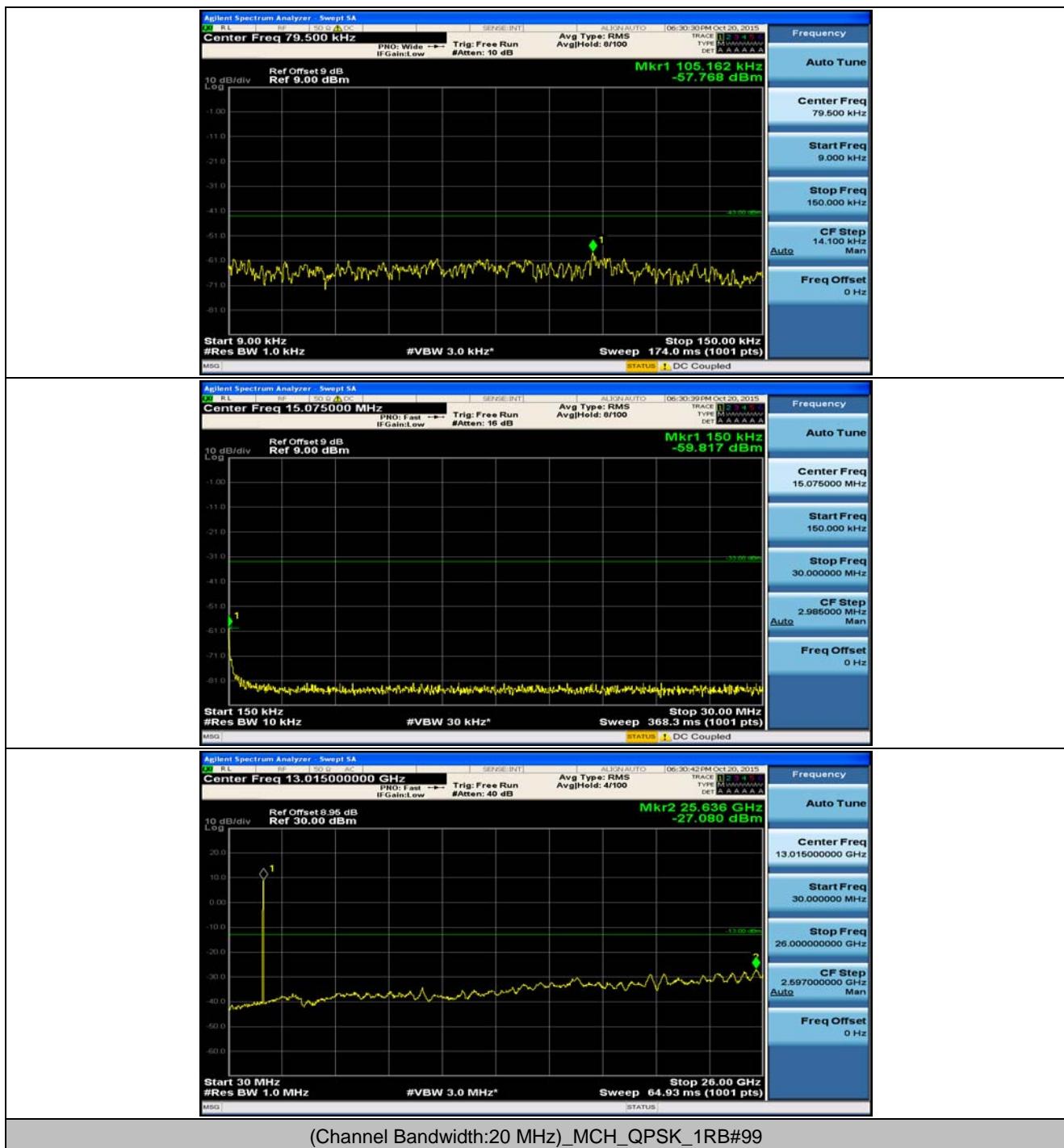


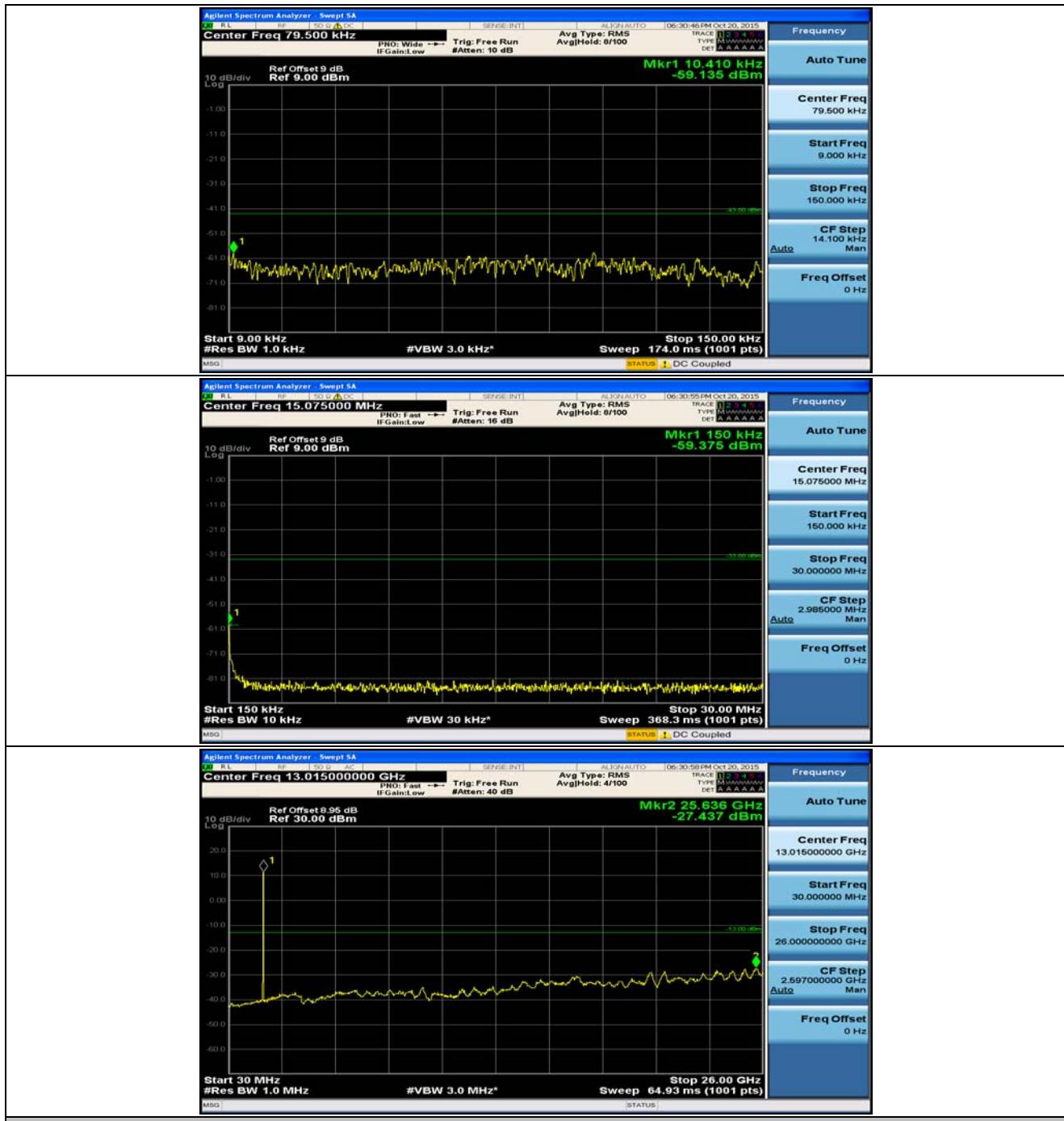


(Channel Bandwidth:20 MHz)\_LCH\_QPSK\_50RB#0

(Channel Bandwidth:20 MHz)\_MCH\_QPSK\_1RB#0

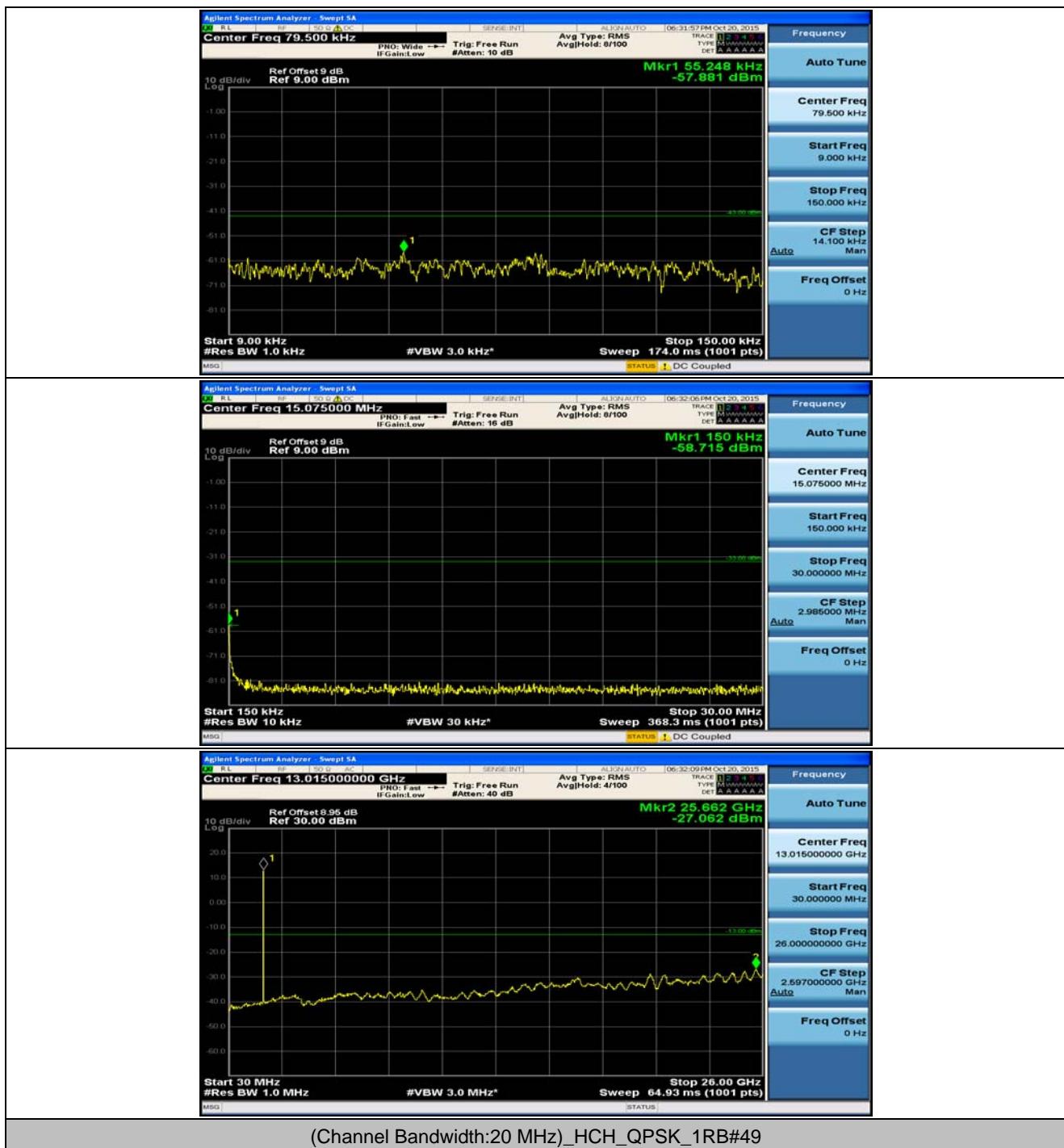


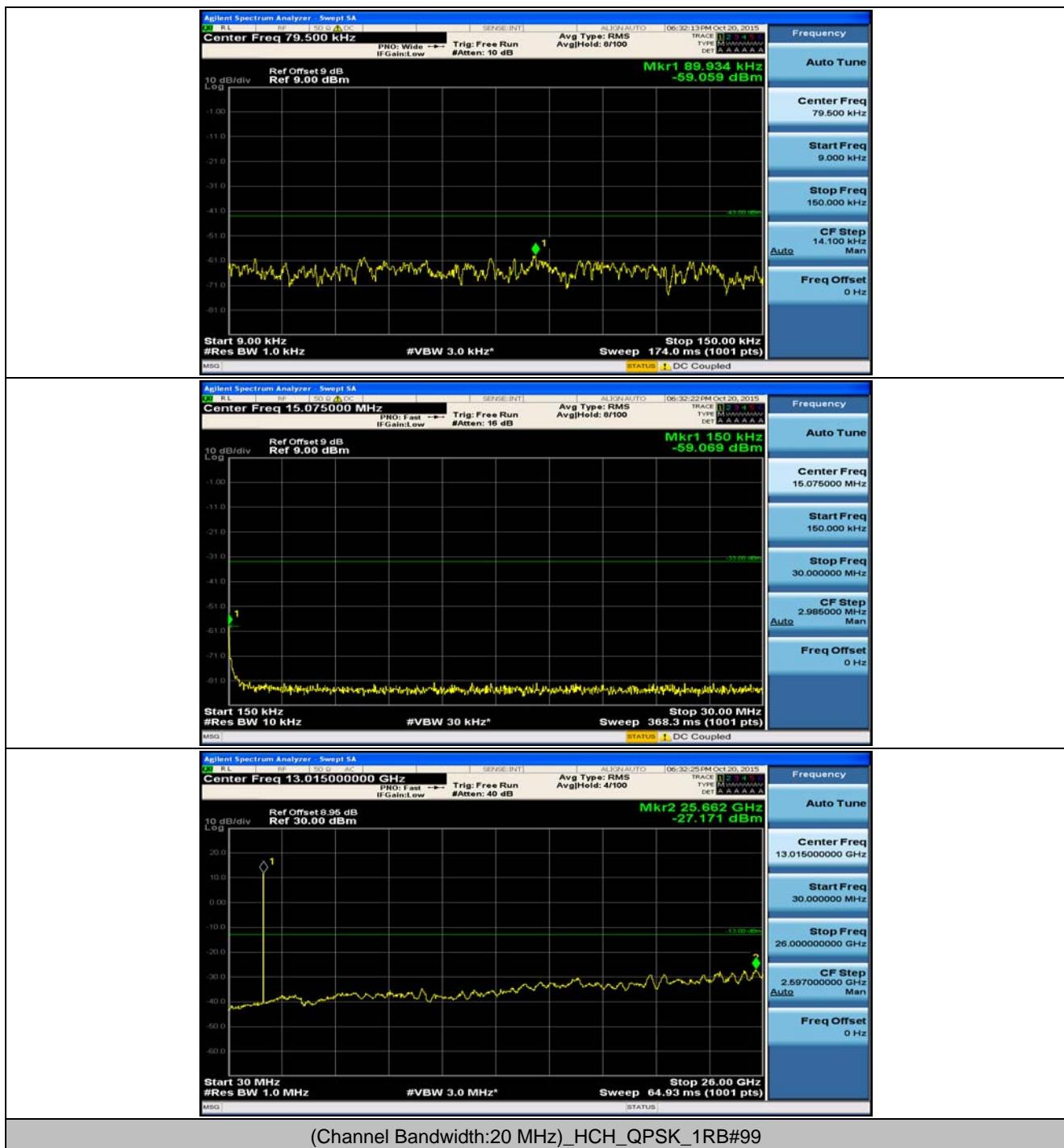


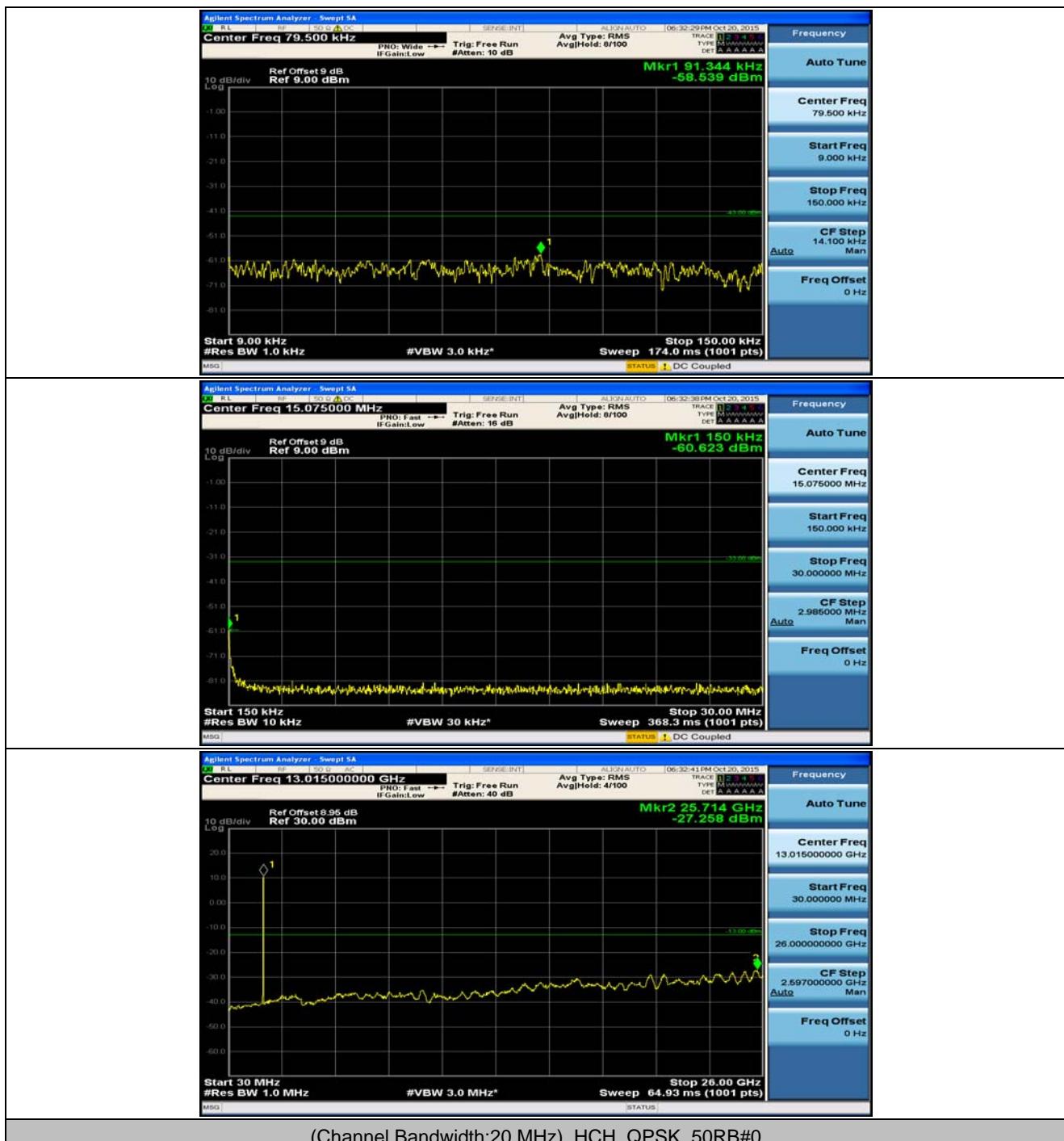


(Channel Bandwidth:20 MHz)\_MCH\_QPSK\_50RB#0

(Channel Bandwidth:20 MHz)\_HCH\_QPSK\_1RB#0

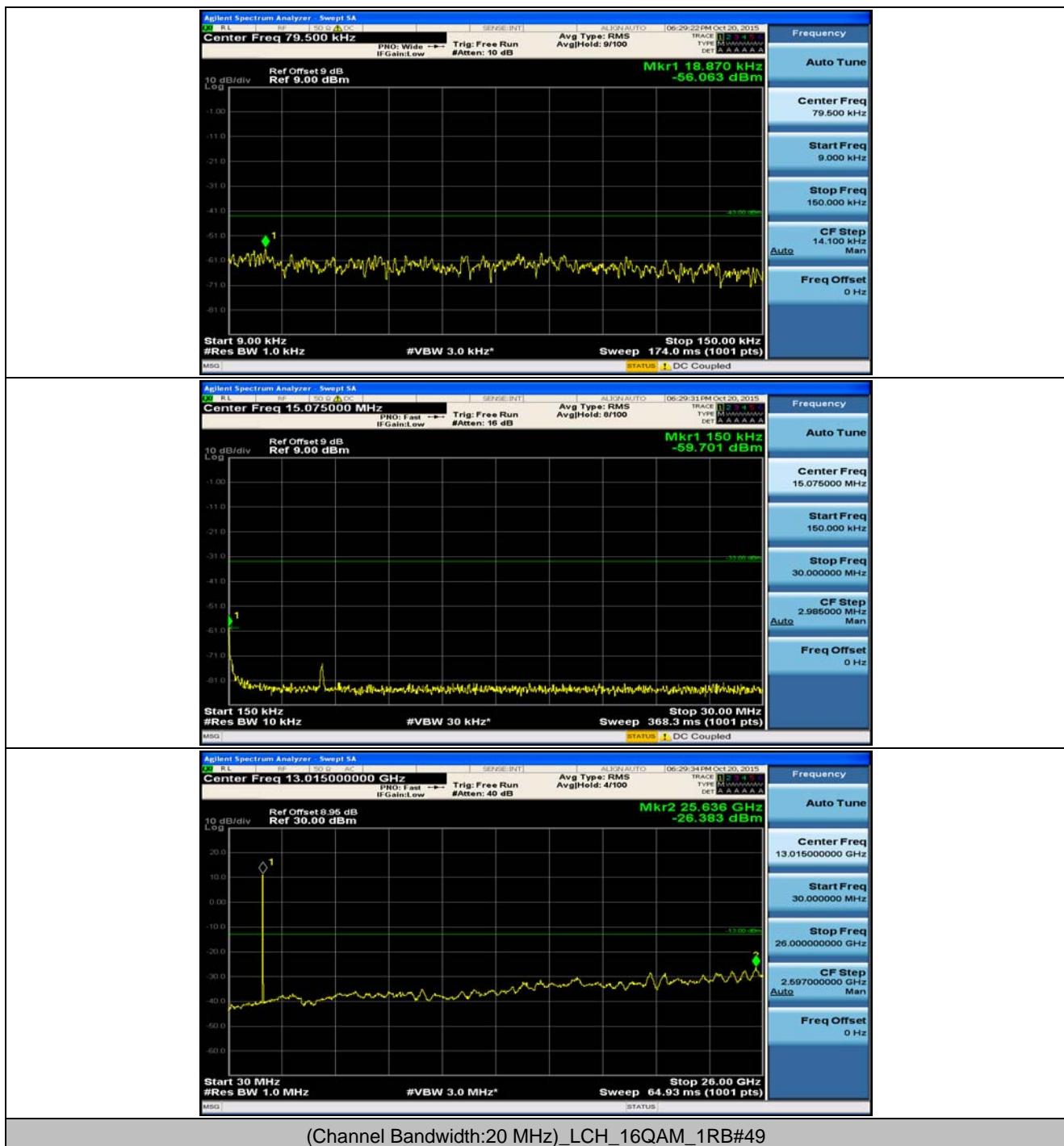


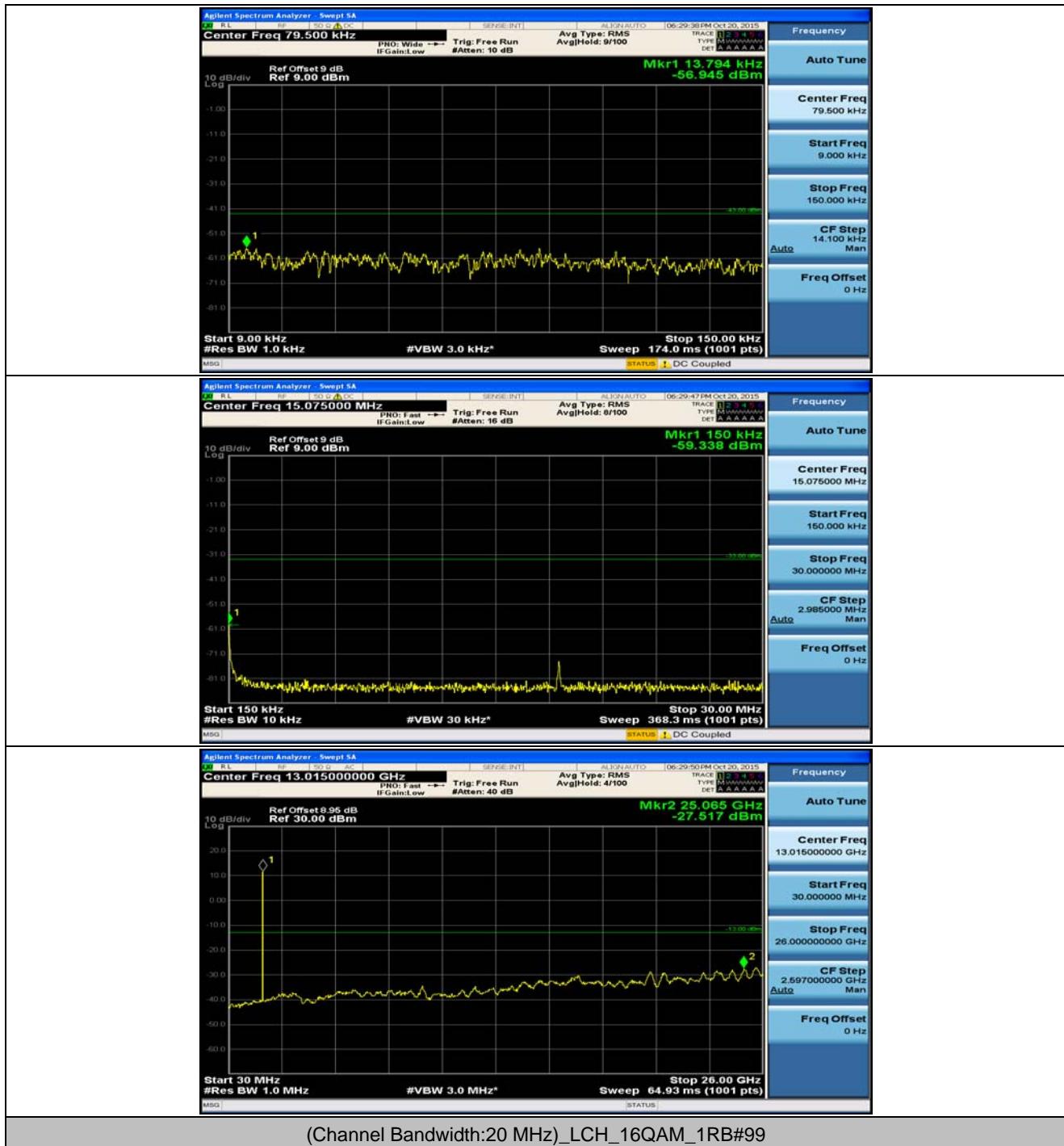


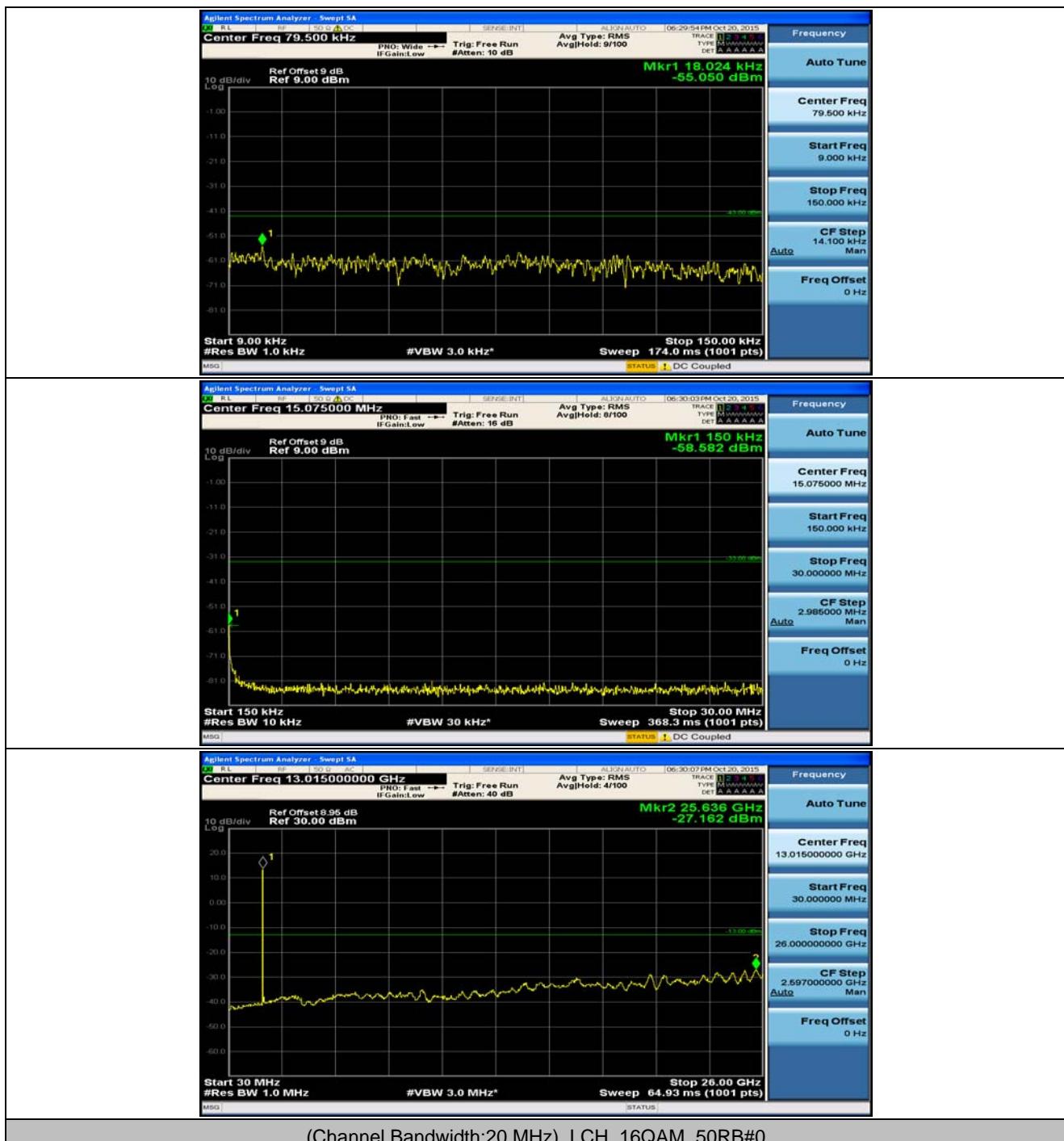


(Channel Bandwidth:20 MHz)\_HCH\_QPSK\_50RB#0

(Channel Bandwidth:20 MHz)\_LCH\_16QAM\_1RB#0

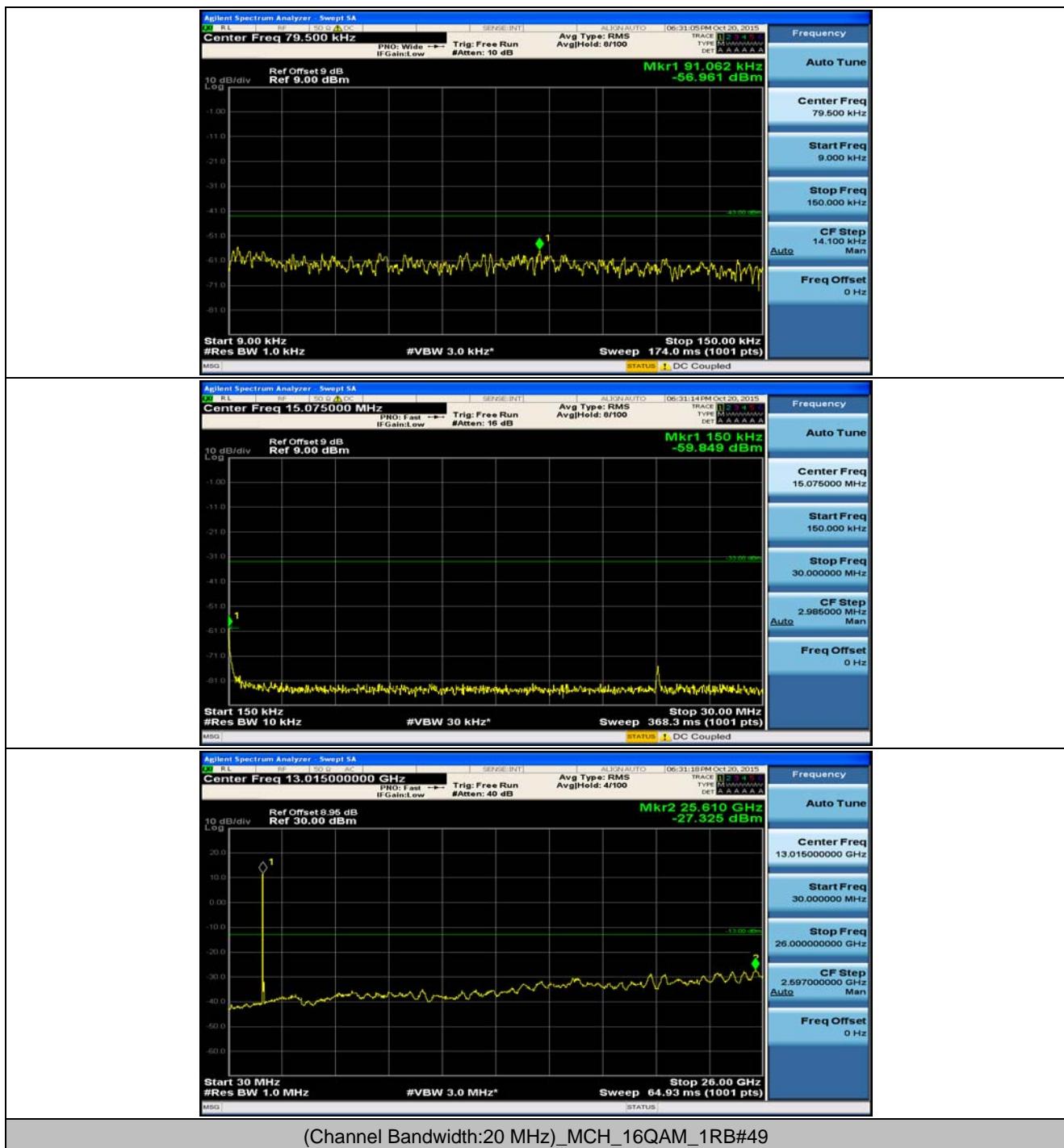


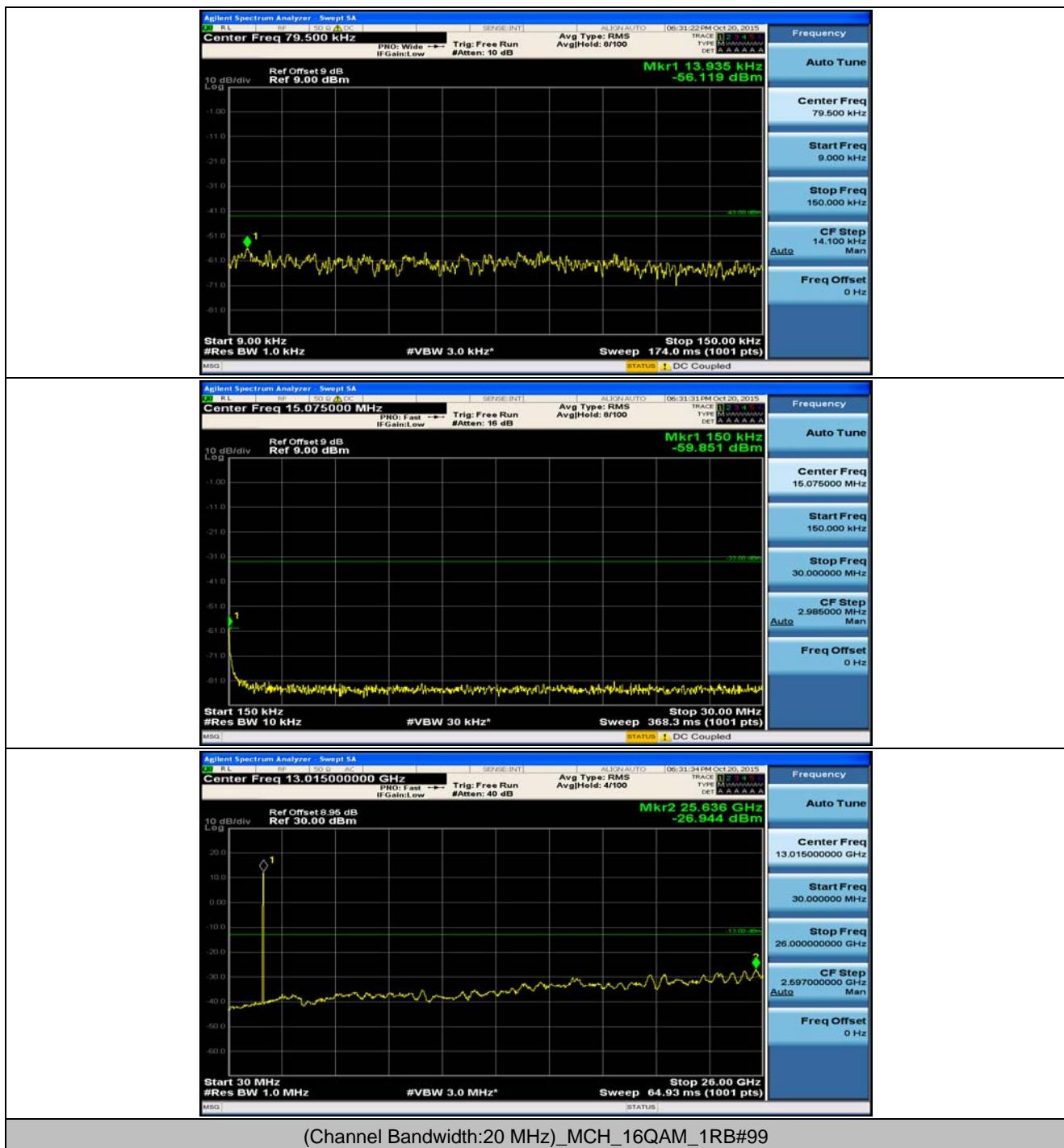


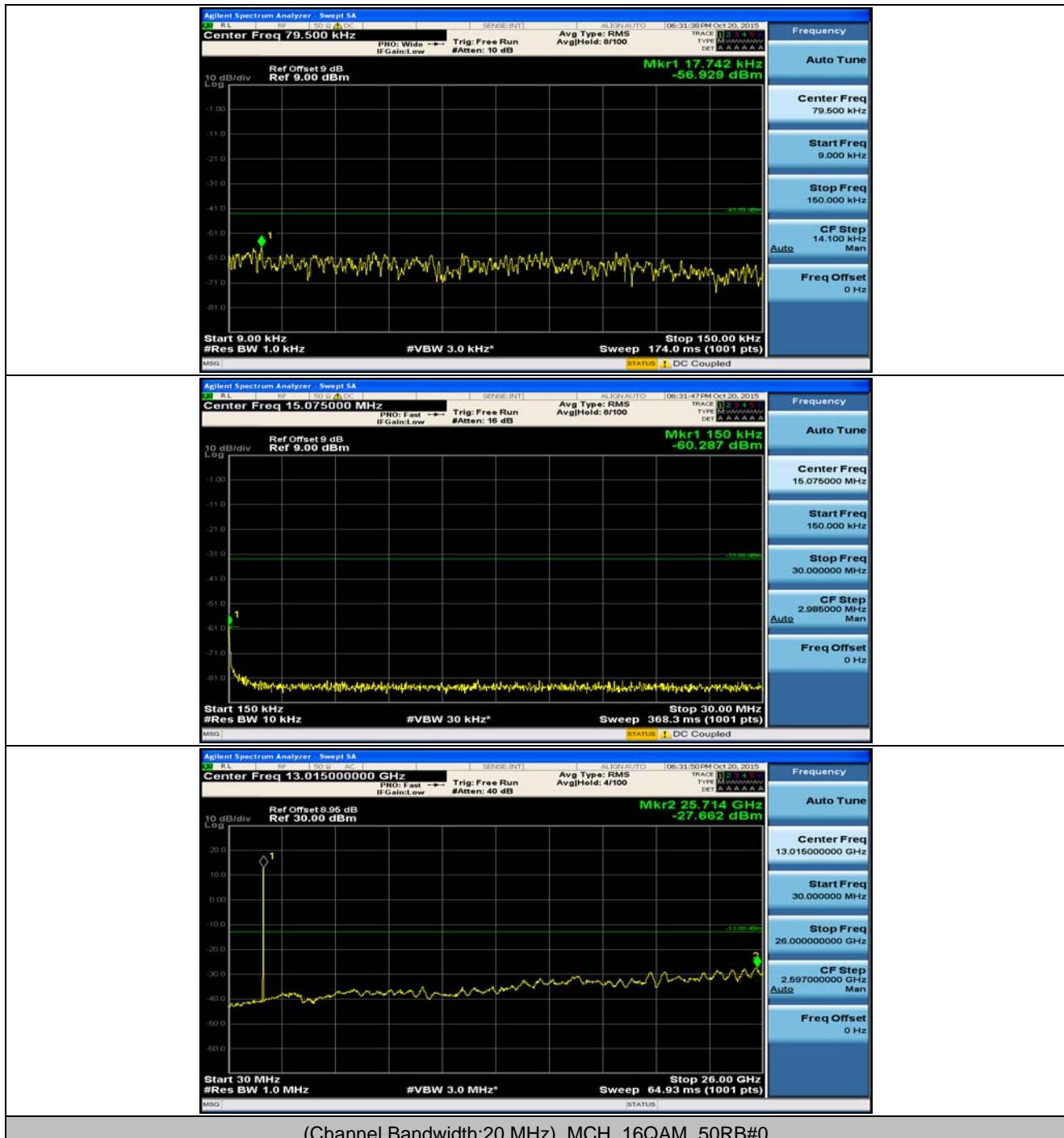


(Channel Bandwidth:20 MHz) LCH\_16QAM\_50RB#0

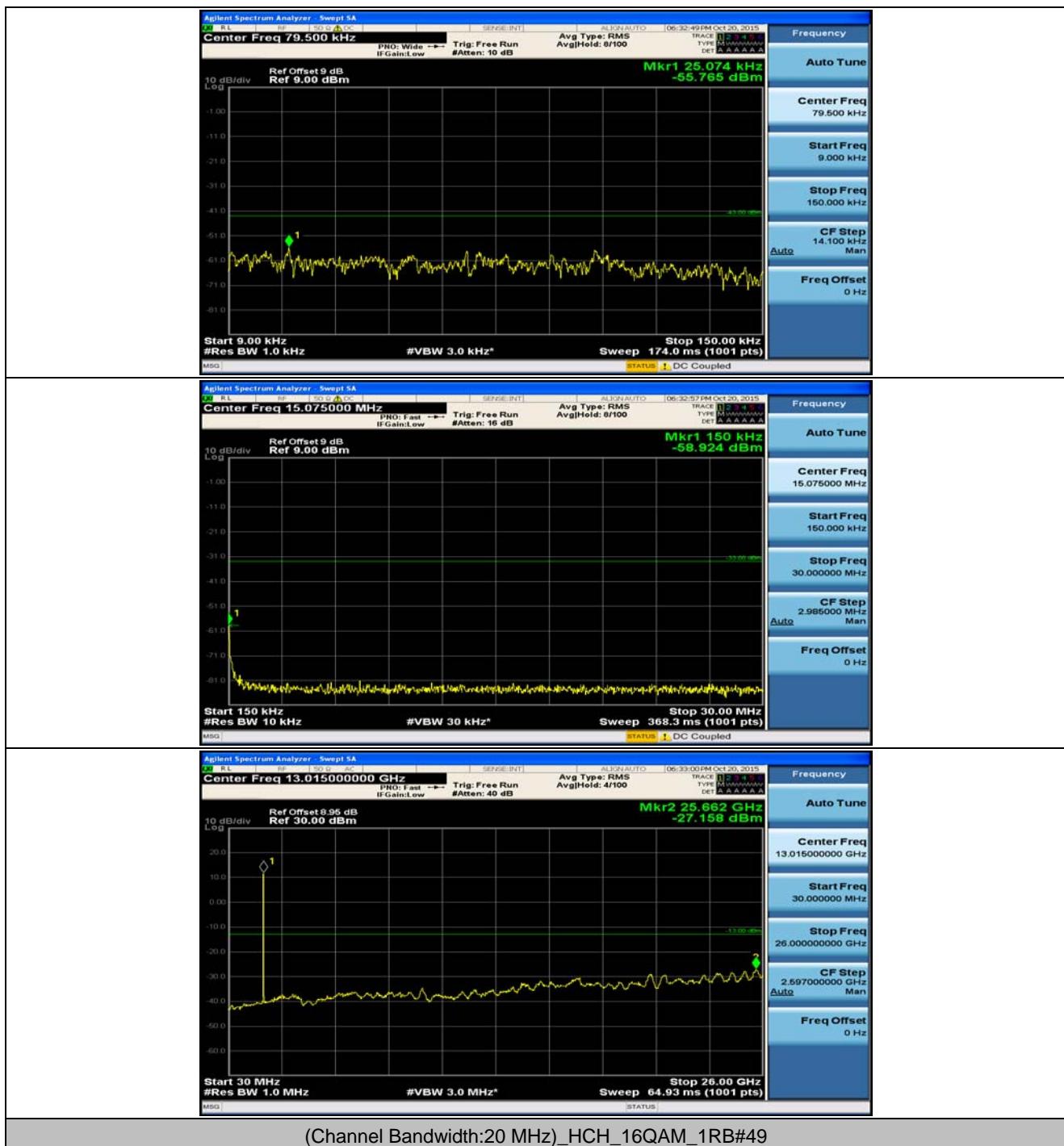
(Channel Bandwidth:20 MHz) MCH\_16QAM\_1RB#0

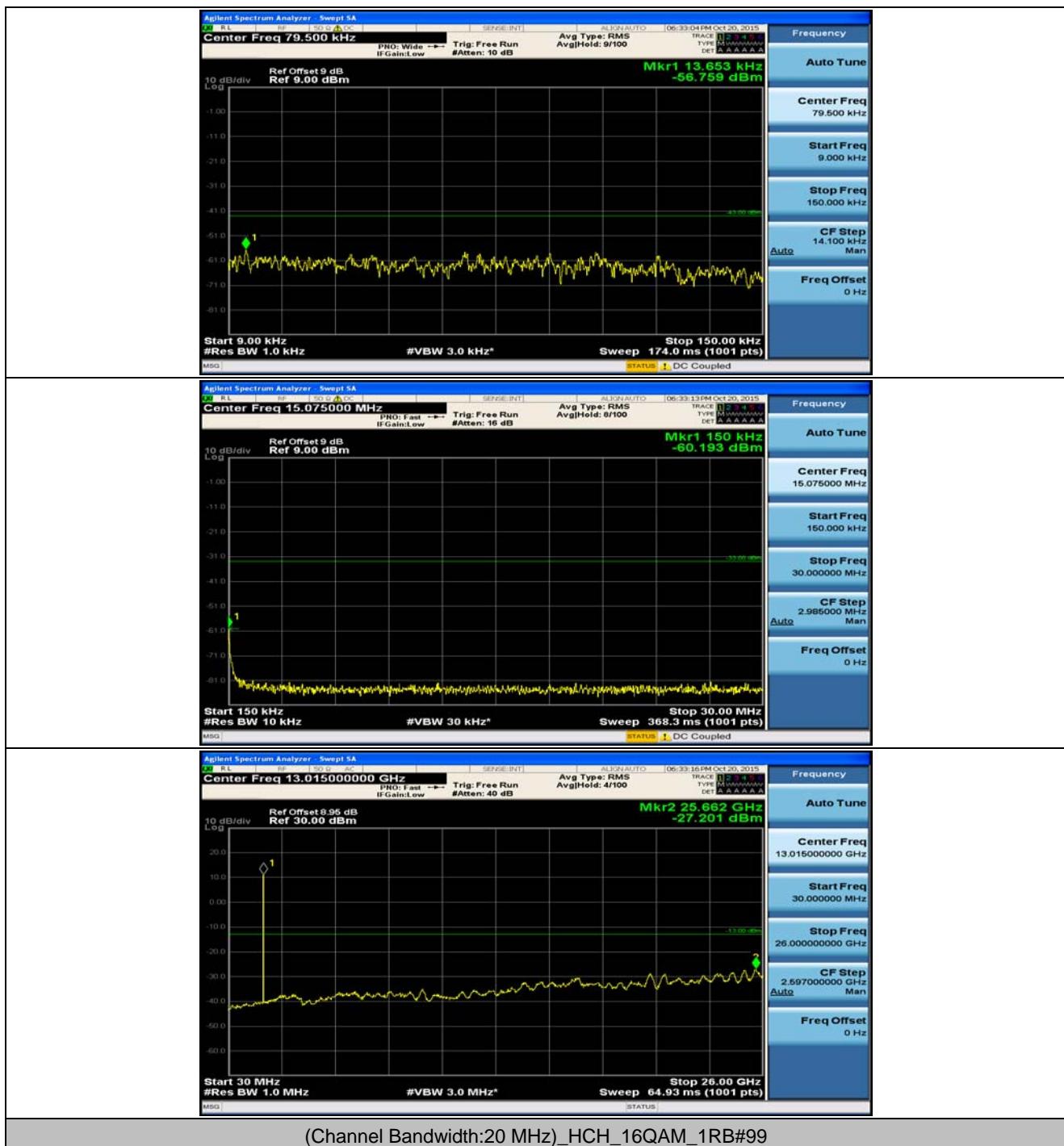


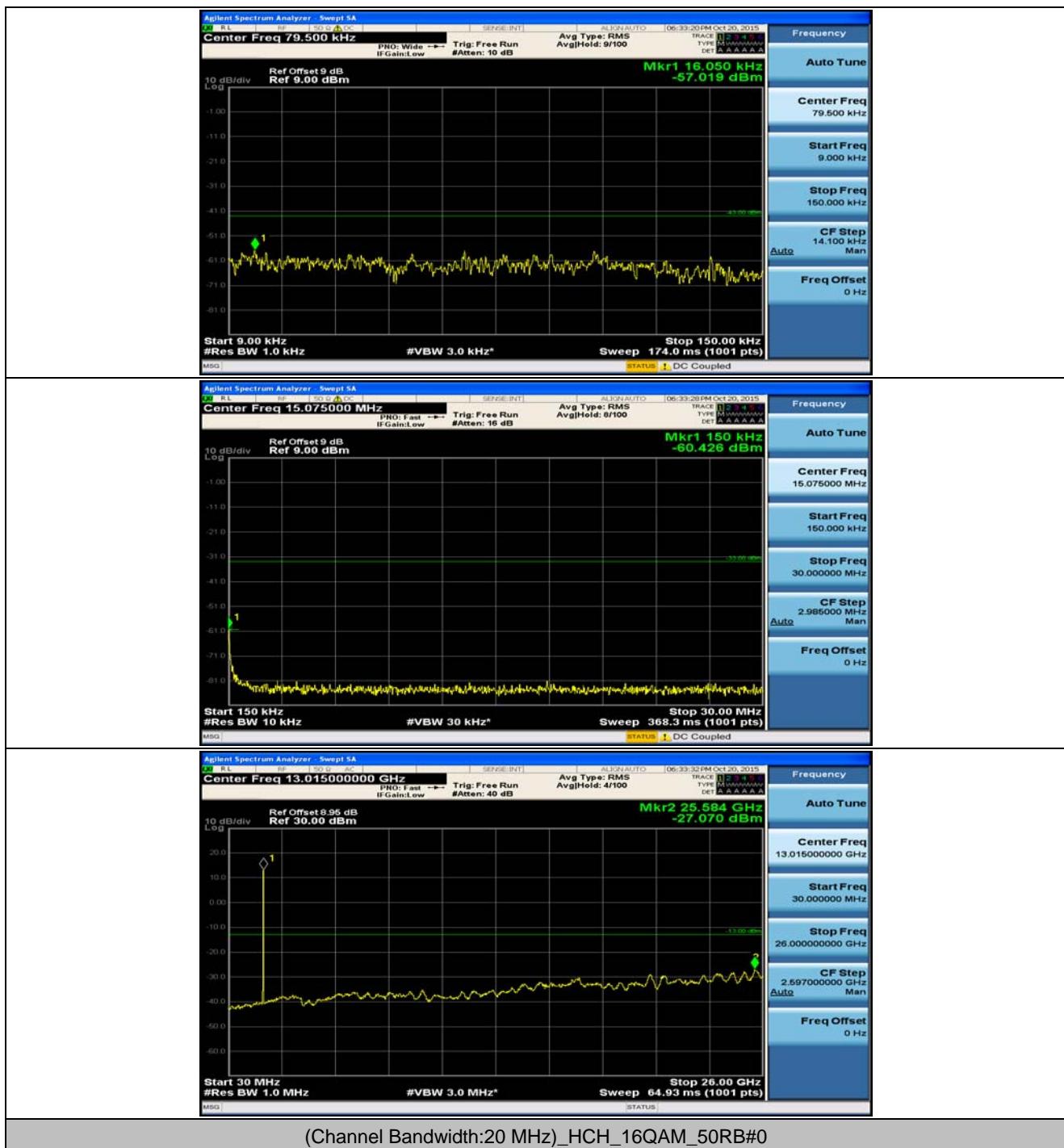




(Channel Bandwidth:20 MHz)\_HCH\_16QAM\_1RB#0







## 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	-1.13	-0.000661	± 2.5	PASS
		VN	TN	2.09	0.001221	± 2.5	PASS
		VH	TN	-2.65	-0.001547	± 2.5	PASS
	MCH	VL	TN	-1.97	-0.001139	± 2.5	PASS
		VN	TN	1.09	0.000628	± 2.5	PASS
		VH	TN	-2.03	-0.001172	± 2.5	PASS
	HCH	VL	TN	-2.00	-0.001142	± 2.5	PASS
		VN	TN	0.26	0.000147	± 2.5	PASS
		VH	TN	-1.99	-0.001133	± 2.5	PASS
16QAM	LCH	VL	TN	-0.94	-0.000552	± 2.5	PASS
		VN	TN	1.47	0.000861	± 2.5	PASS
		VH	TN	0.27	0.000159	± 2.5	PASS
	MCH	VL	TN	1.99	0.001148	± 2.5	PASS
		VN	TN	1.07	0.000619	± 2.5	PASS
		VH	TN	-0.29	-0.000165	± 2.5	PASS
	HCH	VL	TN	3.58	0.002039	± 2.5	PASS
		VN	TN	-2.26	-0.001288	± 2.5	PASS
		VH	TN	3.93	0.002242	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-2.20	-0.001288	± 2.5	PASS
		VN	-20	0.16	0.000092	± 2.5	PASS
		VN	-10	-2.12	-0.001238	± 2.5	PASS
		VN	0	2.83	0.001656	± 2.5	PASS
		VN	10	2.76	0.001614	± 2.5	PASS
		VN	20	2.40	0.001405	± 2.5	PASS
		VN	30	1.70	0.000995	± 2.5	PASS
		VN	40	-1.80	-0.001054	± 2.5	PASS
		VN	50	0.21	0.000125	± 2.5	PASS
	MCH	VN	-30	-0.24	-0.000140	± 2.5	PASS
		VN	-20	-0.77	-0.000446	± 2.5	PASS
		VN	-10	0.94	0.000545	± 2.5	PASS
		VN	0	-0.03	-0.000017	± 2.5	PASS
		VN	10	2.75	0.001585	± 2.5	PASS
		VN	20	2.33	0.001346	± 2.5	PASS
		VN	30	0.90	0.000520	± 2.5	PASS

	HCH	VN	40	0.93	0.000537	$\pm 2.5$	PASS
		VN	50	-3.91	-0.002254	$\pm 2.5$	PASS
		VN	-30	-0.46	-0.000261	$\pm 2.5$	PASS
		VN	-20	1.22	0.000693	$\pm 2.5$	PASS
		VN	-10	2.02	0.001150	$\pm 2.5$	PASS
		VN	0	1.60	0.000913	$\pm 2.5$	PASS
		VN	10	-2.23	-0.001272	$\pm 2.5$	PASS
		VN	20	0.23	0.000130	$\pm 2.5$	PASS
		VN	30	-0.79	-0.000448	$\pm 2.5$	PASS
		VN	40	0.27	0.000155	$\pm 2.5$	PASS
		VN	50	-0.44	-0.000253	$\pm 2.5$	PASS
16QAM	LCH	VN	-30	5.01	0.002854	$\pm 2.5$	PASS
		VN	-20	-0.92	-0.000535	$\pm 2.5$	PASS
		VN	-10	-1.59	-0.000928	$\pm 2.5$	PASS
		VN	0	2.23	0.001304	$\pm 2.5$	PASS
		VN	10	1.20	0.000702	$\pm 2.5$	PASS
		VN	20	-1.22	-0.000711	$\pm 2.5$	PASS
		VN	30	3.55	0.002074	$\pm 2.5$	PASS
		VN	40	2.73	0.001597	$\pm 2.5$	PASS
		VN	50	-2.10	-0.001229	$\pm 2.5$	PASS
	MCH	VN	-30	-3.26	-0.001883	$\pm 2.5$	PASS
		VN	-20	1.69	0.000974	$\pm 2.5$	PASS
		VN	-10	-0.60	-0.000347	$\pm 2.5$	PASS
		VN	0	0.37	0.000215	$\pm 2.5$	PASS
		VN	10	-1.04	-0.000603	$\pm 2.5$	PASS
		VN	20	-0.17	-0.000099	$\pm 2.5$	PASS
		VN	30	0.46	0.000264	$\pm 2.5$	PASS
		VN	40	0.54	0.000314	$\pm 2.5$	PASS
		VN	50	-0.30	-0.000173	$\pm 2.5$	PASS
	HCH	VN	-30	0.31	0.000179	$\pm 2.5$	PASS
		VN	-20	-0.36	-0.000204	$\pm 2.5$	PASS
		VN	-10	-0.36	-0.000204	$\pm 2.5$	PASS
		VN	0	0.31	0.000179	$\pm 2.5$	PASS
		VN	10	-1.04	-0.000595	$\pm 2.5$	PASS
		VN	20	1.97	0.001125	$\pm 2.5$	PASS
		VN	30	1.79	0.001019	$\pm 2.5$	PASS
		VN	40	-3.50	-0.001998	$\pm 2.5$	PASS
		VN	50	0.89	0.000506	$\pm 2.5$	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	-1.93	-0.001128	$\pm 2.5$	PASS
		VN	TN	0.89	0.000518	$\pm 2.5$	PASS
		VH	TN	0.21	0.000125	$\pm 2.5$	PASS
	MCH	VL	TN	0.31	0.000182	$\pm 2.5$	PASS

16QAM	HCH	VN	TN	1.20	0.000694	$\pm 2.5$	PASS
		VH	TN	-1.10	-0.000636	$\pm 2.5$	PASS
		VL	TN	0.94	0.000538	$\pm 2.5$	PASS
		VN	TN	-1.50	-0.000857	$\pm 2.5$	PASS
		VH	TN	1.44	0.000824	$\pm 2.5$	PASS
	LCH	VL	TN	1.96	0.001145	$\pm 2.5$	PASS
		VN	TN	2.83	0.001655	$\pm 2.5$	PASS
		VH	TN	1.34	0.000786	$\pm 2.5$	PASS
	MCH	VL	TN	-0.37	-0.000215	$\pm 2.5$	PASS
		VN	TN	0.06	0.000033	$\pm 2.5$	PASS
		VH	TN	0.13	0.000074	$\pm 2.5$	PASS
	HCH	VL	TN	0.80	0.000457	$\pm 2.5$	PASS
		VN	TN	-0.19	-0.000106	$\pm 2.5$	PASS
		VH	TN	3.91	0.002227	$\pm 2.5$	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.82	0.001647	$\pm 2.5$	PASS
		VN	-20	-1.30	-0.000761	$\pm 2.5$	PASS
		VN	-10	1.34	0.000786	$\pm 2.5$	PASS
		VN	0	2.25	0.001312	$\pm 2.5$	PASS
		VN	10	2.46	0.001438	$\pm 2.5$	PASS
		VN	20	1.32	0.000769	$\pm 2.5$	PASS
		VN	30	-3.36	-0.001964	$\pm 2.5$	PASS
		VN	40	-0.62	-0.000359	$\pm 2.5$	PASS
		VN	50	-0.41	-0.000242	$\pm 2.5$	PASS
	MCH	VN	-30	-4.69	-0.002708	$\pm 2.5$	PASS
		VN	-20	-4.01	-0.002312	$\pm 2.5$	PASS
		VN	-10	0.47	0.000272	$\pm 2.5$	PASS
		VN	0	-0.04	-0.000025	$\pm 2.5$	PASS
		VN	10	-0.16	-0.000091	$\pm 2.5$	PASS
		VN	20	1.96	0.001131	$\pm 2.5$	PASS
		VN	30	-0.19	-0.000107	$\pm 2.5$	PASS
		VN	40	1.97	0.001139	$\pm 2.5$	PASS
		VN	50	0.72	0.000413	$\pm 2.5$	PASS
	HCH	VN	-30	-1.77	-0.001012	$\pm 2.5$	PASS
		VN	-20	-1.34	-0.000767	$\pm 2.5$	PASS
		VN	-10	-0.83	-0.000473	$\pm 2.5$	PASS
		VN	0	0.59	0.000334	$\pm 2.5$	PASS
		VN	10	1.87	0.001069	$\pm 2.5$	PASS
		VN	20	2.00	0.001142	$\pm 2.5$	PASS
		VN	30	8.01	0.004568	$\pm 2.5$	PASS
		VN	40	-2.96	-0.001689	$\pm 2.5$	PASS
		VN	50	0.69	0.000392	$\pm 2.5$	PASS
QPSK	LCH	VN	-30	0.17	0.000100	$\pm 2.5$	PASS
		VN	-20	-1.73	-0.000999	$\pm 2.5$	PASS
		VN	-10	-3.15	-0.001817	$\pm 2.5$	PASS
		VN	0	-1.04	-0.000603	$\pm 2.5$	PASS
		VN	10	1.95	0.001123	$\pm 2.5$	PASS
		VN	20	0.46	0.000267	$\pm 2.5$	PASS

		VN	30	3.16	0.001847	$\pm 2.5$	PASS
		VN	40	-3.08	-0.001797	$\pm 2.5$	PASS
		VN	50	2.23	0.001304	$\pm 2.5$	PASS
	MCH	VN	-30	1.59	0.000917	$\pm 2.5$	PASS
		VN	-20	1.54	0.000892	$\pm 2.5$	PASS
		VN	-10	0.44	0.000256	$\pm 2.5$	PASS
		VN	0	-0.83	-0.000479	$\pm 2.5$	PASS
		VN	10	-1.27	-0.000735	$\pm 2.5$	PASS
		VN	20	-0.53	-0.000306	$\pm 2.5$	PASS
		VN	30	-2.50	-0.001445	$\pm 2.5$	PASS
		VN	40	-1.03	-0.000594	$\pm 2.5$	PASS
		VN	50	0.93	0.000537	$\pm 2.5$	PASS
	HCH	VN	-30	0.06	0.000033	$\pm 2.5$	PASS
		VN	-20	-0.73	-0.000416	$\pm 2.5$	PASS
		VN	-10	-0.33	-0.000188	$\pm 2.5$	PASS
		VN	0	0.06	0.000033	$\pm 2.5$	PASS
		VN	10	-1.33	-0.000759	$\pm 2.5$	PASS
		VN	20	-1.33	-0.000759	$\pm 2.5$	PASS
		VN	30	0.07	0.000041	$\pm 2.5$	PASS
		VN	40	-1.07	-0.000612	$\pm 2.5$	PASS
		VN	50	-0.36	-0.000204	$\pm 2.5$	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	-1.33	-0.000777	$\pm 2.5$	PASS
		VN	TN	2.46	0.001437	$\pm 2.5$	PASS
		VH	TN	-0.94	-0.000551	$\pm 2.5$	PASS
	MCH	VL	TN	3.56	0.002056	$\pm 2.5$	PASS
		VN	TN	-0.79	-0.000454	$\pm 2.5$	PASS
		VH	TN	-0.31	-0.000182	$\pm 2.5$	PASS
	HCH	VL	TN	0.29	0.000163	$\pm 2.5$	PASS
		VN	TN	4.09	0.002335	$\pm 2.5$	PASS
		VH	TN	0.97	0.000555	$\pm 2.5$	PASS
16QAM	LCH	VL	TN	0.50	0.000292	$\pm 2.5$	PASS
		VN	TN	-3.62	-0.002113	$\pm 2.5$	PASS
		VH	TN	-0.62	-0.000359	$\pm 2.5$	PASS
	MCH	VL	TN	-0.70	-0.000405	$\pm 2.5$	PASS
		VN	TN	-0.06	-0.000033	$\pm 2.5$	PASS
		VH	TN	3.60	0.002081	$\pm 2.5$	PASS
	HCH	VL	TN	3.16	0.001804	$\pm 2.5$	PASS
		VN	TN	0.30	0.000171	$\pm 2.5$	PASS
		VH	TN	0.66	0.000375	$\pm 2.5$	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict

	QPSK	LCH	VN	-30	0.16	0.000092	$\pm 2.5$	PASS
			VN	-20	1.87	0.001094	$\pm 2.5$	PASS
			VN	-10	1.59	0.000927	$\pm 2.5$	PASS
			VN	0	-0.69	-0.000401	$\pm 2.5$	PASS
			VN	10	-1.77	-0.001036	$\pm 2.5$	PASS
			VN	20	0.36	0.000209	$\pm 2.5$	PASS
			VN	30	-3.00	-0.001754	$\pm 2.5$	PASS
			VN	40	2.03	0.001186	$\pm 2.5$	PASS
			VN	50	0.13	0.000075	$\pm 2.5$	PASS
			VN	-30	-1.22	-0.000702	$\pm 2.5$	PASS
	16QAM	MCH	VN	-20	-1.04	-0.000603	$\pm 2.5$	PASS
			VN	-10	-0.51	-0.000297	$\pm 2.5$	PASS
			VN	0	-1.16	-0.000669	$\pm 2.5$	PASS
			VN	10	0.50	0.000289	$\pm 2.5$	PASS
			VN	20	-2.12	-0.001222	$\pm 2.5$	PASS
			VN	30	-0.51	-0.000297	$\pm 2.5$	PASS
			VN	40	-2.15	-0.001239	$\pm 2.5$	PASS
			VN	50	1.29	0.000743	$\pm 2.5$	PASS
			VN	-30	-0.87	-0.000498	$\pm 2.5$	PASS
			VN	-20	1.19	0.000678	$\pm 2.5$	PASS
	HCH	HCH	VN	-10	2.53	0.001445	$\pm 2.5$	PASS
			VN	0	-1.90	-0.001086	$\pm 2.5$	PASS
			VN	10	-1.75	-0.000996	$\pm 2.5$	PASS
			VN	20	1.79	0.001020	$\pm 2.5$	PASS
			VN	30	1.54	0.000882	$\pm 2.5$	PASS
			VN	40	0.62	0.000351	$\pm 2.5$	PASS
			VN	50	0.90	0.000514	$\pm 2.5$	PASS
			VN	-30	0.19	0.000109	$\pm 2.5$	PASS
			VN	-20	0.23	0.000134	$\pm 2.5$	PASS
			VN	-10	-0.60	-0.000351	$\pm 2.5$	PASS
	16QAM	LCH	VN	0	-0.10	-0.000058	$\pm 2.5$	PASS
			VN	10	-0.43	-0.000251	$\pm 2.5$	PASS
			VN	20	2.46	0.001437	$\pm 2.5$	PASS
			VN	30	2.35	0.001370	$\pm 2.5$	PASS
			VN	40	-0.72	-0.000418	$\pm 2.5$	PASS
			VN	50	-1.40	-0.000819	$\pm 2.5$	PASS
			VN	-30	2.27	0.001313	$\pm 2.5$	PASS
			VN	-20	-0.99	-0.000570	$\pm 2.5$	PASS
			VN	-10	-1.20	-0.000694	$\pm 2.5$	PASS
			VN	0	-2.02	-0.001164	$\pm 2.5$	PASS
	HCH	MCH	VN	10	2.85	0.001643	$\pm 2.5$	PASS
			VN	20	-1.23	-0.000710	$\pm 2.5$	PASS
			VN	30	-3.26	-0.001883	$\pm 2.5$	PASS
			VN	40	0.80	0.000462	$\pm 2.5$	PASS
			VN	50	-1.90	-0.001098	$\pm 2.5$	PASS
			VN	-30	2.43	0.001388	$\pm 2.5$	PASS
			VN	-20	-1.83	-0.001045	$\pm 2.5$	PASS
			VN	-10	2.93	0.001673	$\pm 2.5$	PASS
			VN	0	-2.79	-0.001592	$\pm 2.5$	PASS
			VN	10	-0.11	-0.000065	$\pm 2.5$	PASS

		VN	20	1.20	0.000686	$\pm 2.5$	PASS
		VN	30	0.89	0.000506	$\pm 2.5$	PASS
		VN	40	0.76	0.000433	$\pm 2.5$	PASS
		VN	50	0.99	0.000563	$\pm 2.5$	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	0.37	0.000217	$\pm 2.5$	PASS
		VN	TN	-0.74	-0.000434	$\pm 2.5$	PASS
		VH	TN	1.16	0.000676	$\pm 2.5$	PASS
	MCH	VL	TN	0.07	0.000041	$\pm 2.5$	PASS
		VN	TN	1.32	0.000760	$\pm 2.5$	PASS
		VH	TN	1.07	0.000619	$\pm 2.5$	PASS
	HCH	VL	TN	-0.21	-0.000123	$\pm 2.5$	PASS
		VN	TN	1.17	0.000670	$\pm 2.5$	PASS
		VH	TN	-1.06	-0.000605	$\pm 2.5$	PASS
16QAM	LCH	VL	TN	0.20	0.000117	$\pm 2.5$	PASS
		VN	TN	0.39	0.000225	$\pm 2.5$	PASS
		VH	TN	0.53	0.000309	$\pm 2.5$	PASS
	MCH	VL	TN	1.27	0.000735	$\pm 2.5$	PASS
		VN	TN	0.43	0.000248	$\pm 2.5$	PASS
		VH	TN	0.59	0.000339	$\pm 2.5$	PASS
	HCH	VL	TN	-0.50	-0.000286	$\pm 2.5$	PASS
		VN	TN	-0.06	-0.000033	$\pm 2.5$	PASS
		VH	TN	-0.19	-0.000106	$\pm 2.5$	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	1.75	0.001018	$\pm 2.5$	PASS
		VN	-20	0.76	0.000442	$\pm 2.5$	PASS
		VN	-10	-0.04	-0.000025	$\pm 2.5$	PASS
		VN	0	-0.41	-0.000242	$\pm 2.5$	PASS
		VN	10	-0.04	-0.000025	$\pm 2.5$	PASS
		VN	20	2.20	0.001285	$\pm 2.5$	PASS
		VN	30	1.66	0.000968	$\pm 2.5$	PASS
		VN	40	0.66	0.000384	$\pm 2.5$	PASS
		VN	50	-0.11	-0.000067	$\pm 2.5$	PASS
	MCH	VN	-30	0.37	0.000217	$\pm 2.5$	PASS
		VN	-20	0.30	0.000175	$\pm 2.5$	PASS
		VN	-10	-0.26	-0.000150	$\pm 2.5$	PASS
		VN	0	1.00	0.000584	$\pm 2.5$	PASS
		VN	10	1.16	0.000669	$\pm 2.5$	PASS
		VN	20	0.60	0.000347	$\pm 2.5$	PASS
		VN	30	0.59	0.000339	$\pm 2.5$	PASS
		VN	40	0.59	0.000339	$\pm 2.5$	PASS

		VN	50	-0.11	-0.000066	$\pm 2.5$	PASS
HCH	LCH	VN	-30	-0.50	-0.000289	$\pm 2.5$	PASS
		VN	-20	0.23	0.000132	$\pm 2.5$	PASS
		VN	-10	0.10	0.000058	$\pm 2.5$	PASS
		VN	0	-0.66	-0.000380	$\pm 2.5$	PASS
		VN	10	-0.06	-0.000033	$\pm 2.5$	PASS
		VN	20	0.54	0.000311	$\pm 2.5$	PASS
		VN	30	0.57	0.000327	$\pm 2.5$	PASS
		VN	40	0.24	0.000139	$\pm 2.5$	PASS
		VN	50	-0.43	-0.000245	$\pm 2.5$	PASS
		VN	-30	0.86	0.000490	$\pm 2.5$	PASS
QPSK	MCH	VN	-20	0.54	0.000311	$\pm 2.5$	PASS
		VN	-10	-0.31	-0.000180	$\pm 2.5$	PASS
		VN	0	0.36	0.000204	$\pm 2.5$	PASS
		VN	10	0.20	0.000114	$\pm 2.5$	PASS
		VN	20	0.36	0.000209	$\pm 2.5$	PASS
		VN	30	-0.40	-0.000234	$\pm 2.5$	PASS
		VN	40	0.14	0.000083	$\pm 2.5$	PASS
		VN	50	1.56	0.000909	$\pm 2.5$	PASS
		VN	-30	0.27	0.000158	$\pm 2.5$	PASS
		VN	-20	-0.21	-0.000125	$\pm 2.5$	PASS
HCH	LCH	VN	-10	-0.67	-0.000392	$\pm 2.5$	PASS
		VN	0	0.16	0.000092	$\pm 2.5$	PASS
		VN	10	0.64	0.000375	$\pm 2.5$	PASS
		VN	20	-1.14	-0.000661	$\pm 2.5$	PASS
		VN	30	-0.34	-0.000198	$\pm 2.5$	PASS
		VN	40	-0.03	-0.000017	$\pm 2.5$	PASS
		VN	50	-0.57	-0.000330	$\pm 2.5$	PASS
		VN	-30	0.94	0.000545	$\pm 2.5$	PASS
		VN	-20	1.27	0.000735	$\pm 2.5$	PASS
		VN	-10	0.03	0.000017	$\pm 2.5$	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	1.53	0.000891	$\pm 2.5$	PASS
		VN	TN	-1.06	-0.000616	$\pm 2.5$	PASS
		VH	TN	0.73	0.000425	$\pm 2.5$	PASS
	MCH	VL	TN	-0.27	-0.000157	$\pm 2.5$	PASS
		VN	TN	0.07	0.000041	$\pm 2.5$	PASS

	HCH	VH	TN	-0.37	-0.000215	$\pm 2.5$	PASS
		VL	TN	0.37	0.000213	$\pm 2.5$	PASS
		VN	TN	1.65	0.000941	$\pm 2.5$	PASS
		VH	TN	-0.70	-0.000401	$\pm 2.5$	PASS
16QAM	LCH	VL	TN	-0.57	-0.000333	$\pm 2.5$	PASS
		VN	TN	0.06	0.000033	$\pm 2.5$	PASS
		VH	TN	0.39	0.000225	$\pm 2.5$	PASS
	MCH	VL	TN	0.34	0.000198	$\pm 2.5$	PASS
		VN	TN	0.23	0.000132	$\pm 2.5$	PASS
		VH	TN	-0.67	-0.000388	$\pm 2.5$	PASS
	HCH	VL	TN	0.23	0.000131	$\pm 2.5$	PASS
		VN	TN	-0.37	-0.000213	$\pm 2.5$	PASS
		VH	TN	0.26	0.000147	$\pm 2.5$	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.02	0.000591	$\pm 2.5$	PASS
		VN	-20	0.43	0.000250	$\pm 2.5$	PASS
		VN	-10	-0.87	-0.000508	$\pm 2.5$	PASS
		VN	0	0.36	0.000208	$\pm 2.5$	PASS
		VN	10	-0.31	-0.000183	$\pm 2.5$	PASS
		VN	20	0.43	0.000250	$\pm 2.5$	PASS
		VN	30	0.80	0.000466	$\pm 2.5$	PASS
		VN	40	0.03	0.000017	$\pm 2.5$	PASS
		VN	50	0.56	0.000325	$\pm 2.5$	PASS
	MCH	VN	-30	-0.36	-0.000208	$\pm 2.5$	PASS
		VN	-20	0.44	0.000258	$\pm 2.5$	PASS
		VN	-10	-0.16	-0.000091	$\pm 2.5$	PASS
		VN	0	-0.57	-0.000330	$\pm 2.5$	PASS
		VN	10	0.04	0.000025	$\pm 2.5$	PASS
		VN	20	-0.24	-0.000140	$\pm 2.5$	PASS
		VN	30	0.13	0.000074	$\pm 2.5$	PASS
		VN	40	-0.82	-0.000471	$\pm 2.5$	PASS
		VN	50	-0.59	-0.000339	$\pm 2.5$	PASS
	HCH	VN	-30	-0.43	-0.000248	$\pm 2.5$	PASS
		VN	-20	-0.56	-0.000322	$\pm 2.5$	PASS
		VN	-10	-0.67	-0.000388	$\pm 2.5$	PASS
		VN	0	0.20	0.000115	$\pm 2.5$	PASS
		VN	10	0.63	0.000360	$\pm 2.5$	PASS
		VN	20	0.80	0.000458	$\pm 2.5$	PASS
		VN	30	0.49	0.000278	$\pm 2.5$	PASS
		VN	40	0.89	0.000508	$\pm 2.5$	PASS
		VN	50	-0.54	-0.000311	$\pm 2.5$	PASS
QPSK	LCH	VN	-30	1.17	0.000683	$\pm 2.5$	PASS
		VN	-20	0.76	0.000441	$\pm 2.5$	PASS
		VN	-10	0.62	0.000358	$\pm 2.5$	PASS
		VN	0	-0.01	-0.000008	$\pm 2.5$	PASS
		VN	10	0.17	0.000100	$\pm 2.5$	PASS
		VN	20	-0.31	-0.000183	$\pm 2.5$	PASS
		VN	30	1.32	0.000766	$\pm 2.5$	PASS

		VN	40	-0.09	-0.000050	$\pm 2.5$	PASS
		VN	50	0.06	0.000033	$\pm 2.5$	PASS
		VN	-30	1.14	0.000661	$\pm 2.5$	PASS
		VN	-20	-0.33	-0.000190	$\pm 2.5$	PASS
		VN	-10	-0.72	-0.000413	$\pm 2.5$	PASS
		VN	0	0.59	0.000339	$\pm 2.5$	PASS
		VN	10	0.72	0.000413	$\pm 2.5$	PASS
		VN	20	0.90	0.000520	$\pm 2.5$	PASS
		VN	30	-0.19	-0.000107	$\pm 2.5$	PASS
		VN	40	-0.01	-0.000008	$\pm 2.5$	PASS
		VN	50	-0.67	-0.000388	$\pm 2.5$	PASS
		VN	-30	0.93	0.000537	$\pm 2.5$	PASS
		VN	-20	0.40	0.000231	$\pm 2.5$	PASS
		VN	-10	-0.59	-0.000339	$\pm 2.5$	PASS
		VN	0	-0.49	-0.000281	$\pm 2.5$	PASS
		VN	10	-0.44	-0.000254	$\pm 2.5$	PASS
		VN	20	0.30	0.000172	$\pm 2.5$	PASS
		VN	30	-0.96	-0.000548	$\pm 2.5$	PASS
		VN	40	1.30	0.000745	$\pm 2.5$	PASS
		VN	50	0.14	0.000082	$\pm 2.5$	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	0.49	0.000283	$\pm 2.5$	PASS
		VN	TN	1.42	0.000823	$\pm 2.5$	PASS
		VH	TN	-0.26	-0.000150	$\pm 2.5$	PASS
	MCH	VL	TN	-1.39	-0.000801	$\pm 2.5$	PASS
		VN	TN	1.30	0.000751	$\pm 2.5$	PASS
		VH	TN	-1.60	-0.000925	$\pm 2.5$	PASS
	HCH	VL	TN	0.70	0.000402	$\pm 2.5$	PASS
		VN	TN	0.66	0.000377	$\pm 2.5$	PASS
		VH	TN	0.29	0.000164	$\pm 2.5$	PASS
16QAM	LCH	VL	TN	-0.43	-0.000250	$\pm 2.5$	PASS
		VN	TN	0.37	0.000216	$\pm 2.5$	PASS
		VH	TN	0.77	0.000449	$\pm 2.5$	PASS
	MCH	VL	TN	-0.56	-0.000322	$\pm 2.5$	PASS
		VN	TN	0.34	0.000198	$\pm 2.5$	PASS
		VH	TN	0.56	0.000322	$\pm 2.5$	PASS
	HCH	VL	TN	0.23	0.000131	$\pm 2.5$	PASS
		VN	TN	0.67	0.000385	$\pm 2.5$	PASS
		VH	TN	0.62	0.000353	$\pm 2.5$	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.33	0.000191	$\pm 2.5$	PASS

		VN	-20	-0.62	-0.000358	$\pm 2.5$	PASS	
		VN	-10	0.57	0.000333	$\pm 2.5$	PASS	
		VN	0	0.77	0.000449	$\pm 2.5$	PASS	
		VN	10	0.27	0.000158	$\pm 2.5$	PASS	
		VN	20	-0.13	-0.000075	$\pm 2.5$	PASS	
		VN	30	0.44	0.000258	$\pm 2.5$	PASS	
		VN	40	0.94	0.000549	$\pm 2.5$	PASS	
		VN	50	0.16	0.000091	$\pm 2.5$	PASS	
	MCH	VN	-30	0.59	0.000341	$\pm 2.5$	PASS	
		VN	-20	1.33	0.000773	$\pm 2.5$	PASS	
		VN	-10	0.00	0.000000	$\pm 2.5$	PASS	
		VN	0	0.76	0.000441	$\pm 2.5$	PASS	
		VN	10	0.03	0.000017	$\pm 2.5$	PASS	
		VN	20	0.60	0.000347	$\pm 2.5$	PASS	
		VN	30	-0.59	-0.000339	$\pm 2.5$	PASS	
		VN	40	-0.40	-0.000231	$\pm 2.5$	PASS	
		VN	50	0.03	0.000017	$\pm 2.5$	PASS	
	HCH	VN	-30	-0.26	-0.000148	$\pm 2.5$	PASS	
		VN	-20	0.44	0.000254	$\pm 2.5$	PASS	
		VN	-10	1.23	0.000705	$\pm 2.5$	PASS	
		VN	0	-0.79	-0.000451	$\pm 2.5$	PASS	
		VN	10	0.41	0.000238	$\pm 2.5$	PASS	
		VN	20	0.33	0.000189	$\pm 2.5$	PASS	
		VN	30	-0.16	-0.000090	$\pm 2.5$	PASS	
		VN	40	0.26	0.000148	$\pm 2.5$	PASS	
		VN	50	0.24	0.000139	$\pm 2.5$	PASS	
	LCH	VN	-30	0.60	0.000349	$\pm 2.5$	PASS	
		VN	-20	0.14	0.000083	$\pm 2.5$	PASS	
		VN	-10	0.43	0.000250	$\pm 2.5$	PASS	
		VN	0	0.86	0.000499	$\pm 2.5$	PASS	
		VN	10	0.47	0.000274	$\pm 2.5$	PASS	
		VN	20	0.40	0.000233	$\pm 2.5$	PASS	
		VN	30	1.02	0.000591	$\pm 2.5$	PASS	
		VN	40	0.23	0.000133	$\pm 2.5$	PASS	
		VN	50	0.77	0.000449	$\pm 2.5$	PASS	
	QPSK	MCH	VN	-30	0.01	0.000008	$\pm 2.5$	PASS
			VN	-20	0.09	0.000050	$\pm 2.5$	PASS
			VN	-10	0.36	0.000206	$\pm 2.5$	PASS
			VN	0	0.43	0.000248	$\pm 2.5$	PASS
			VN	10	-0.24	-0.000140	$\pm 2.5$	PASS
			VN	20	1.19	0.000685	$\pm 2.5$	PASS
			VN	30	1.46	0.000842	$\pm 2.5$	PASS
			VN	40	0.34	0.000198	$\pm 2.5$	PASS
			VN	50	-0.14	-0.000083	$\pm 2.5$	PASS
		HCH	VN	-30	0.13	0.000074	$\pm 2.5$	PASS
			VN	-20	0.66	0.000377	$\pm 2.5$	PASS
			VN	-10	0.51	0.000295	$\pm 2.5$	PASS
			VN	0	-0.54	-0.000312	$\pm 2.5$	PASS
			VN	10	-0.06	-0.000033	$\pm 2.5$	PASS
			VN	20	-0.17	-0.000098	$\pm 2.5$	PASS

		VN	30	-0.53	-0.000303	± 2.5	PASS
		VN	40	0.17	0.000098	± 2.5	PASS
		VN	50	0.03	0.000016	± 2.5	PASS