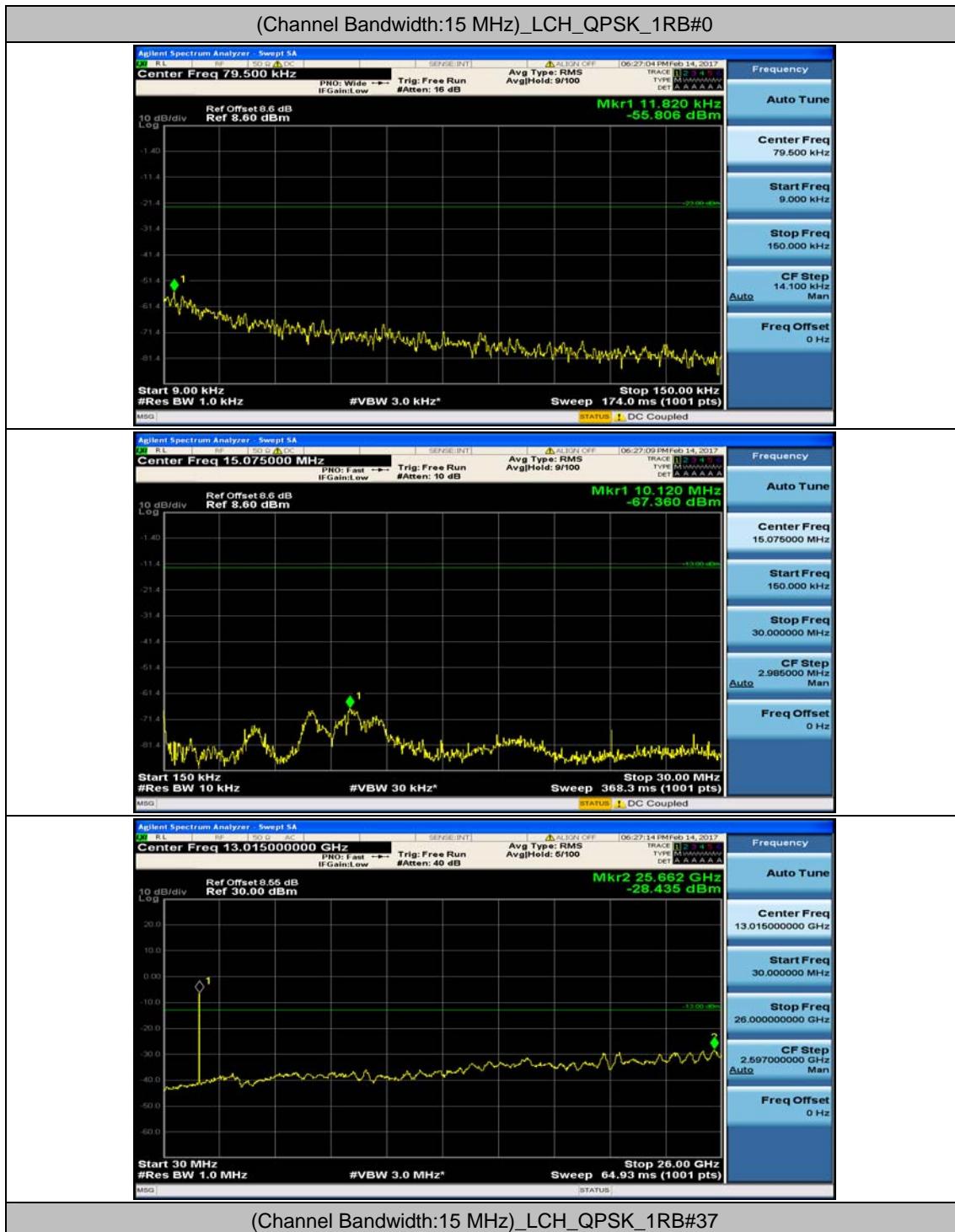
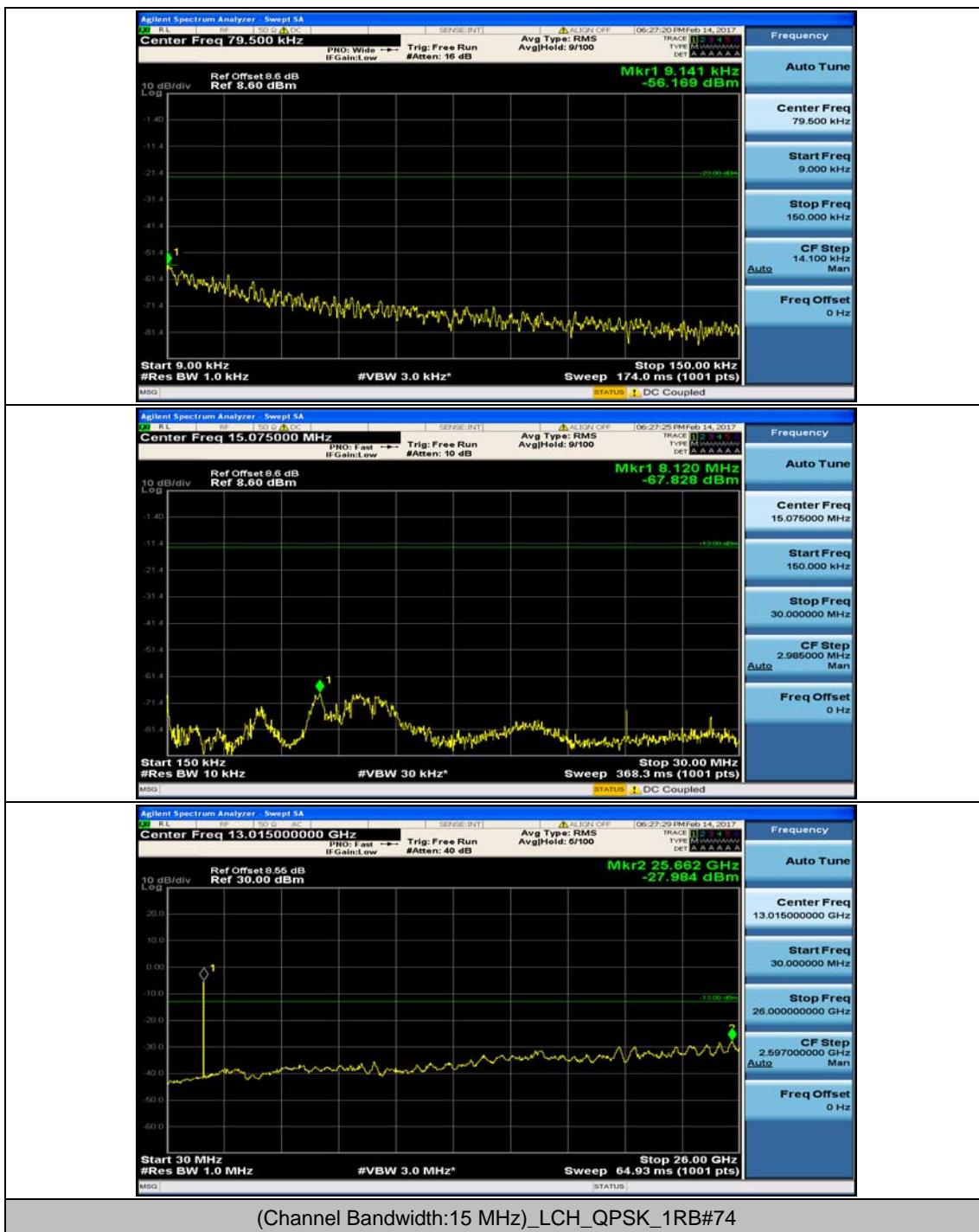
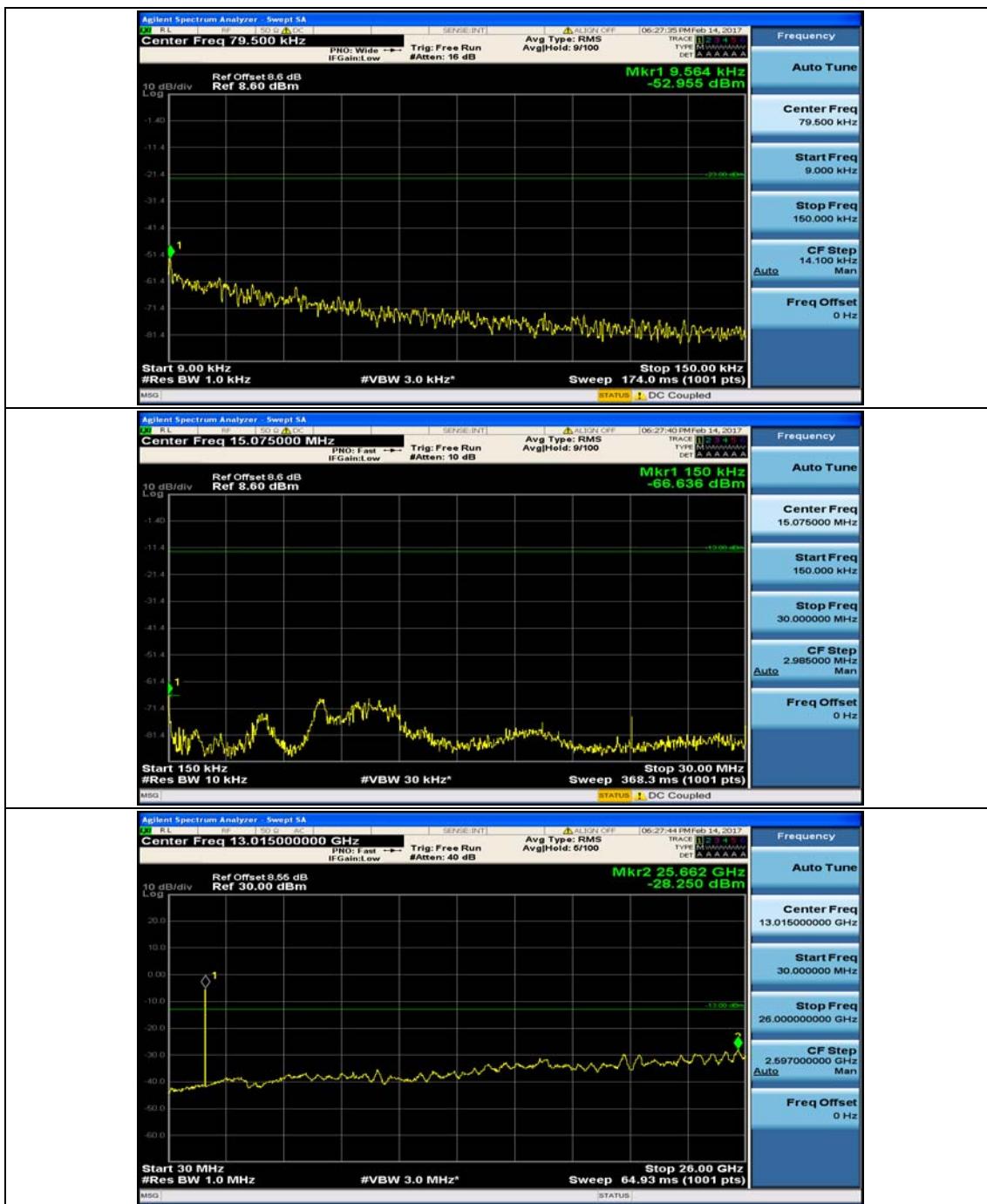
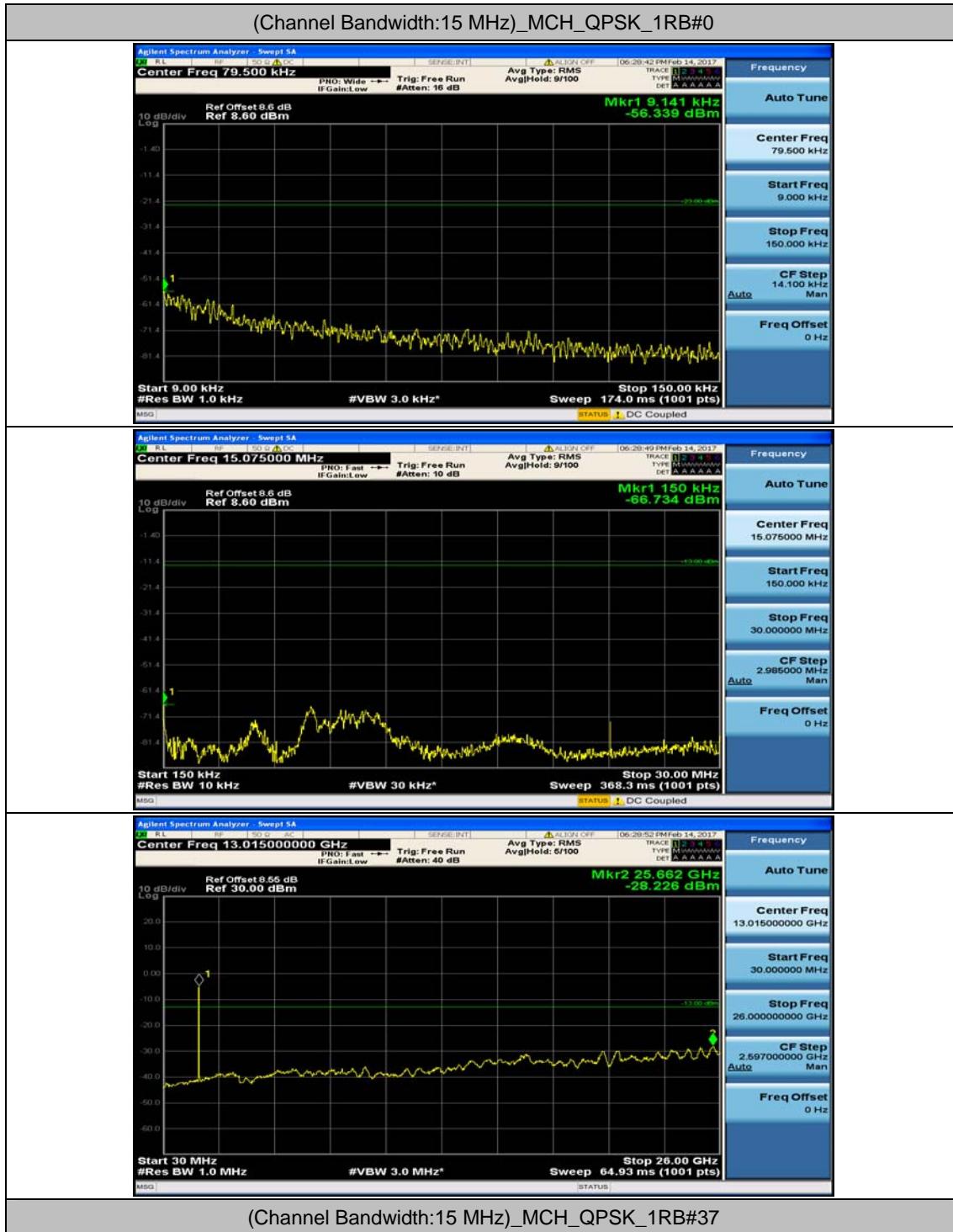


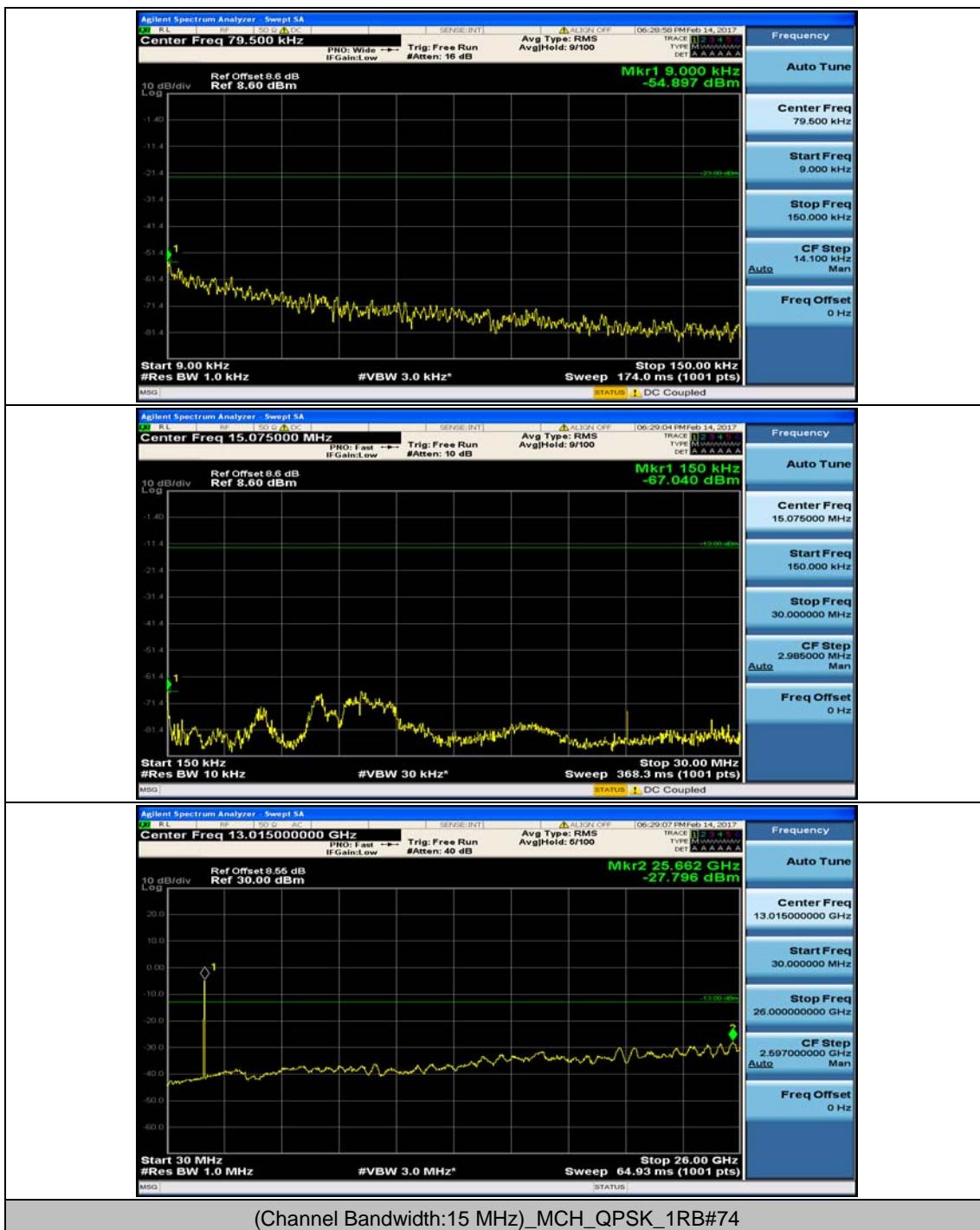
## Channel Bandwidth: 15 MHz

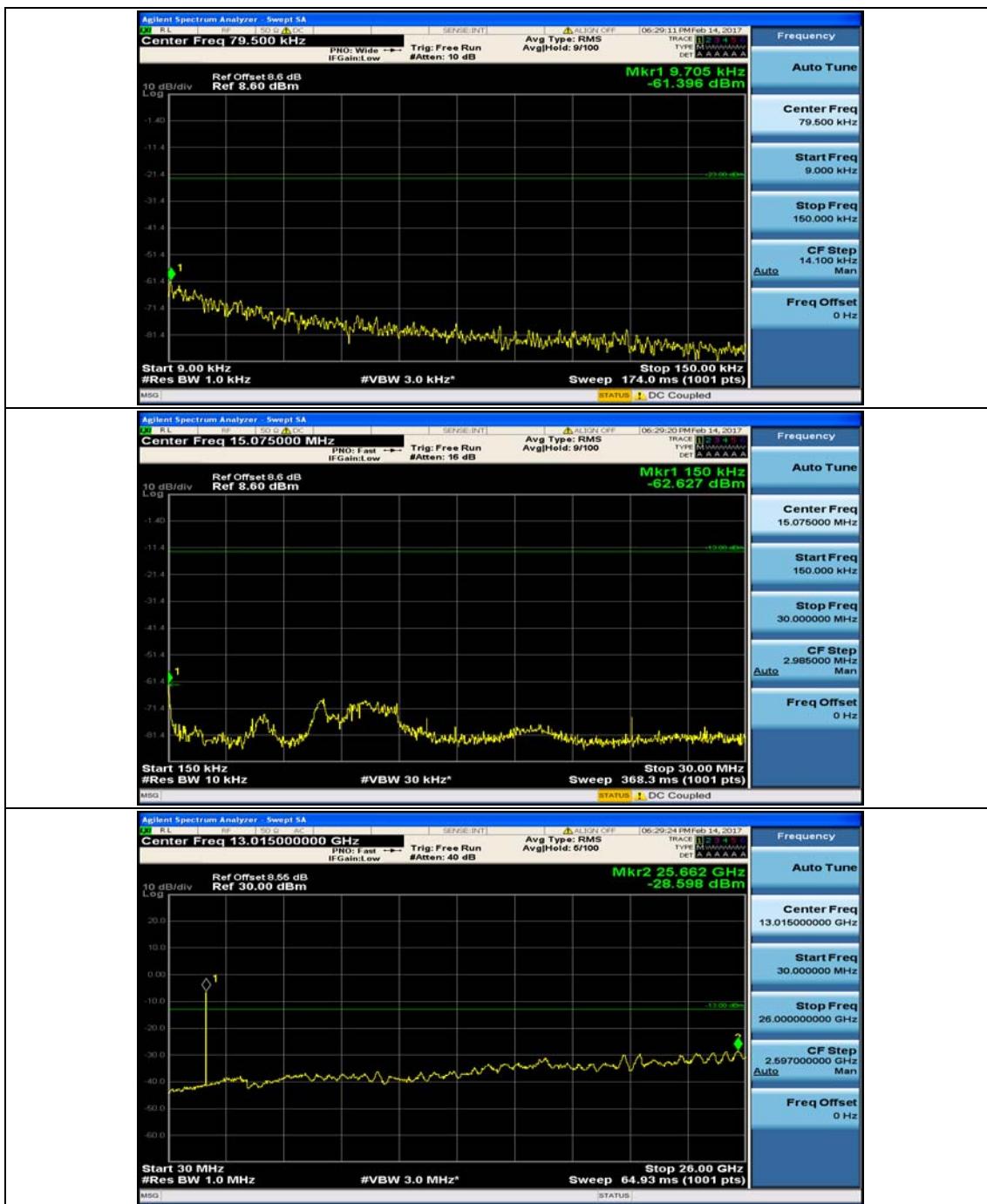


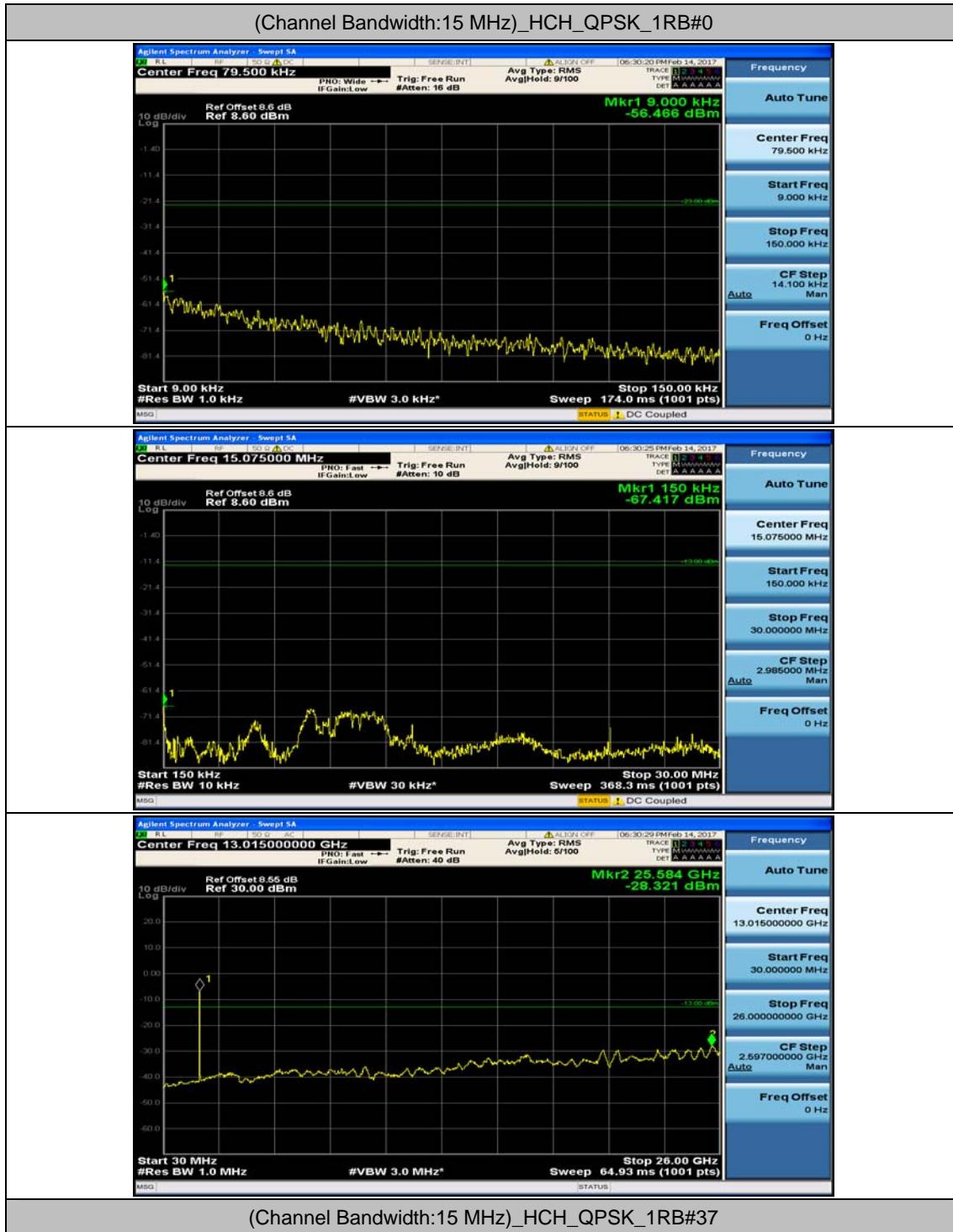


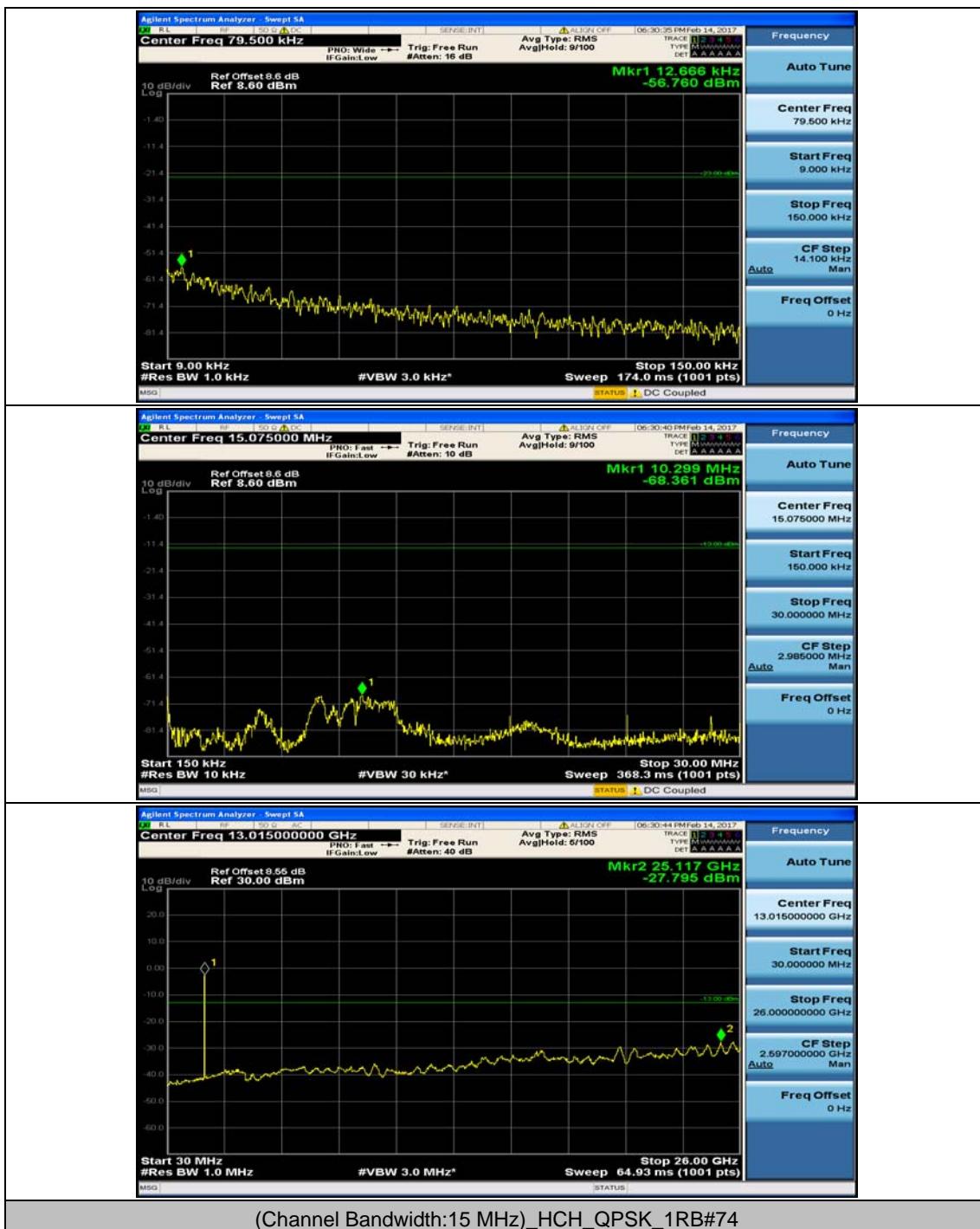


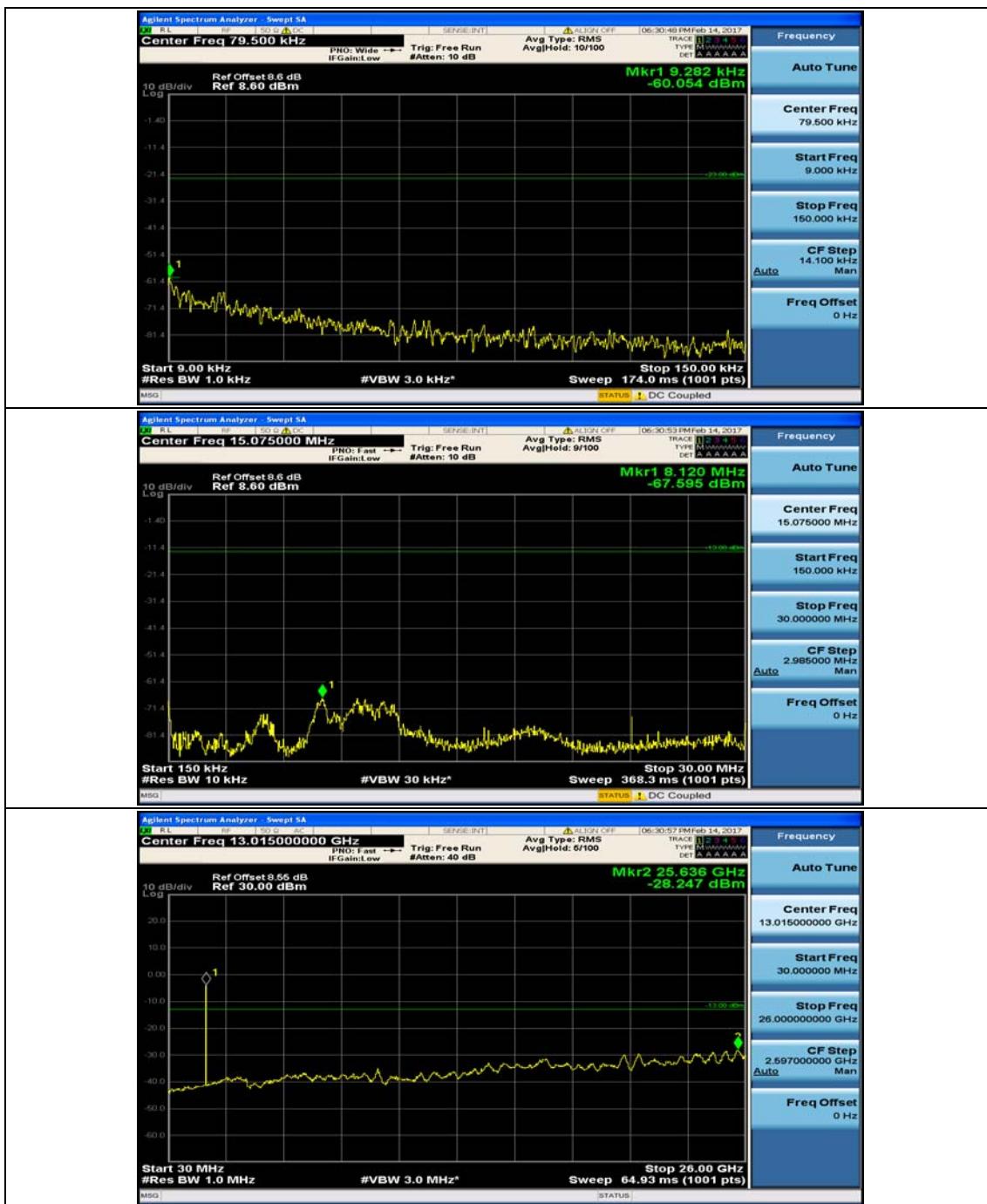


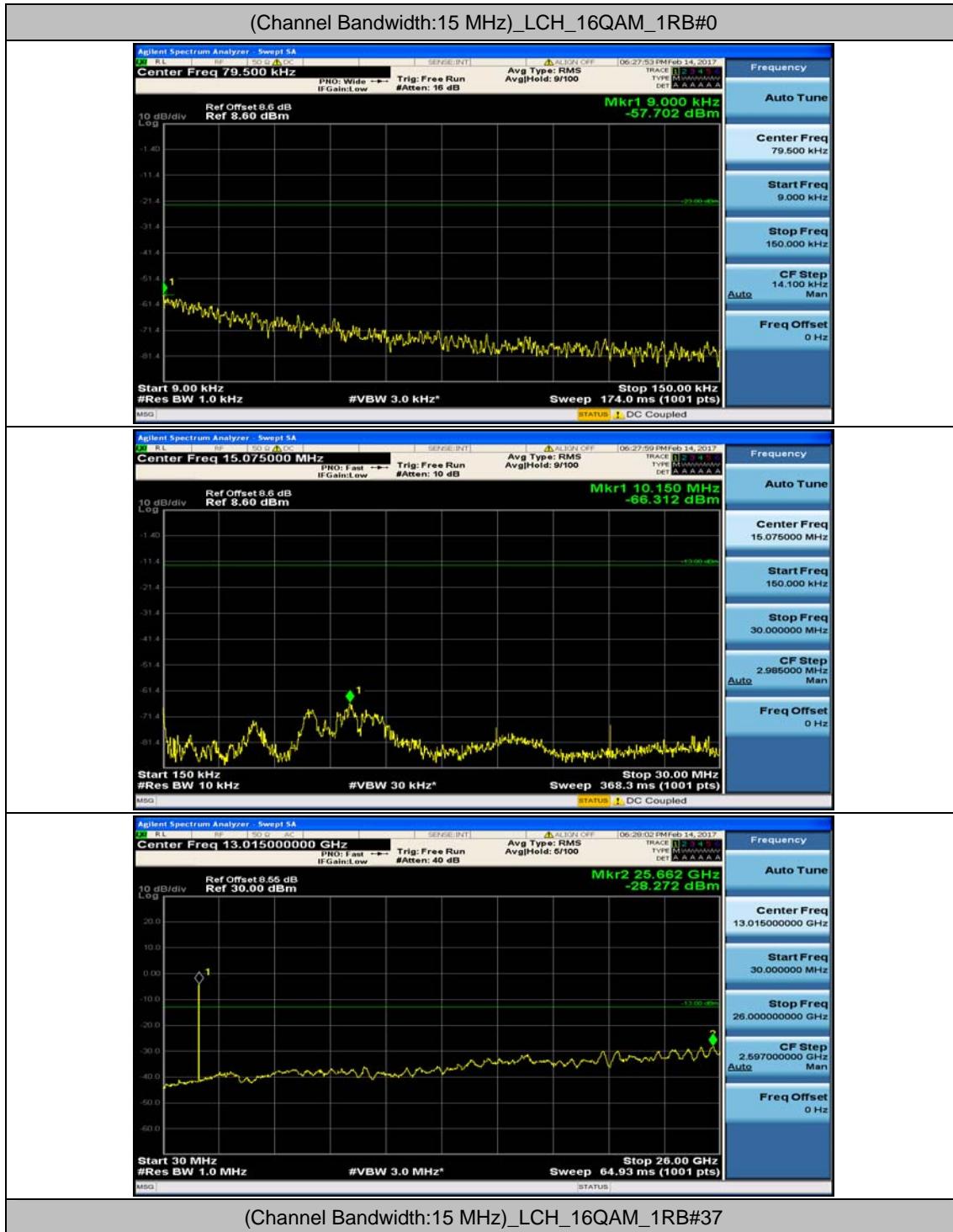


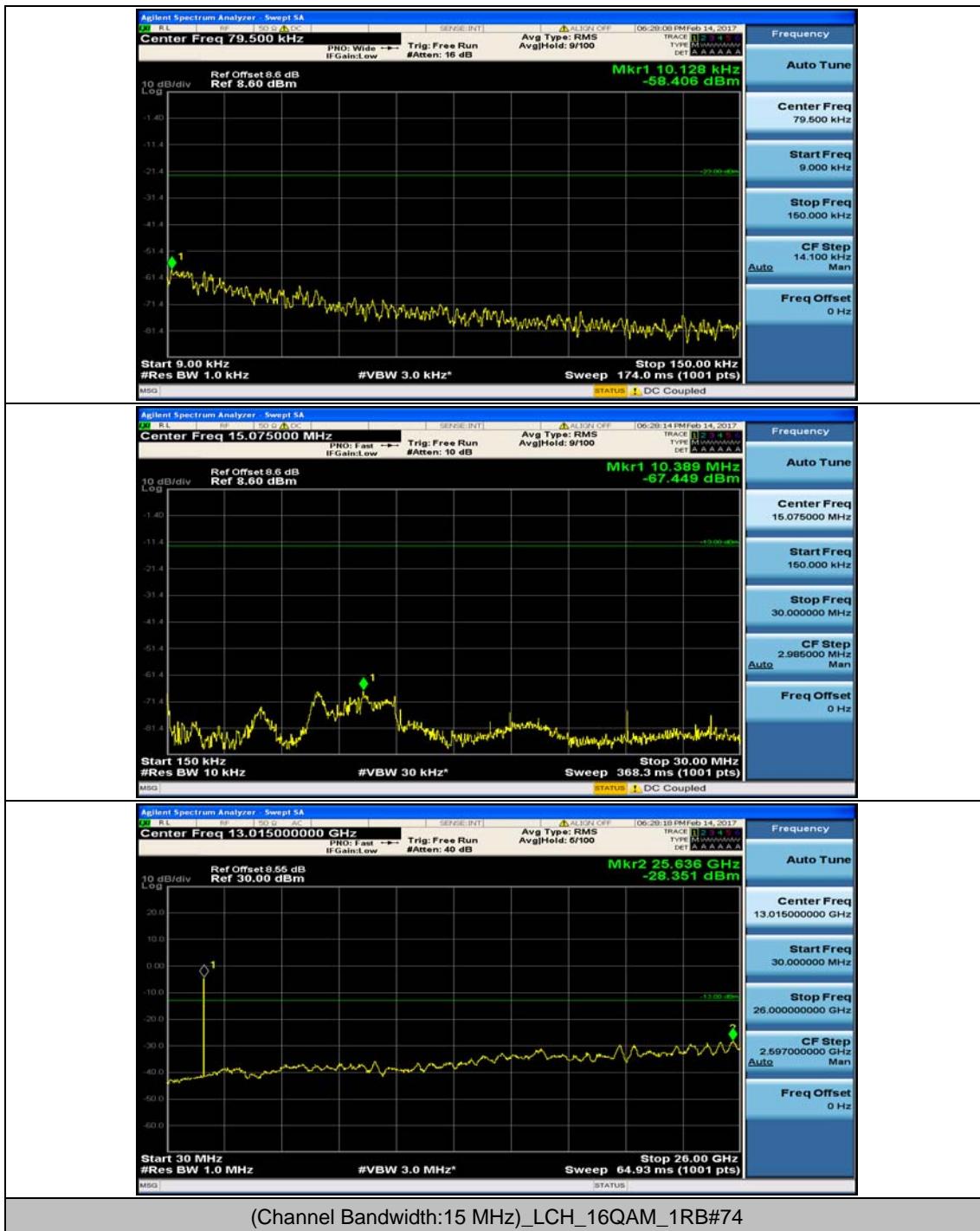


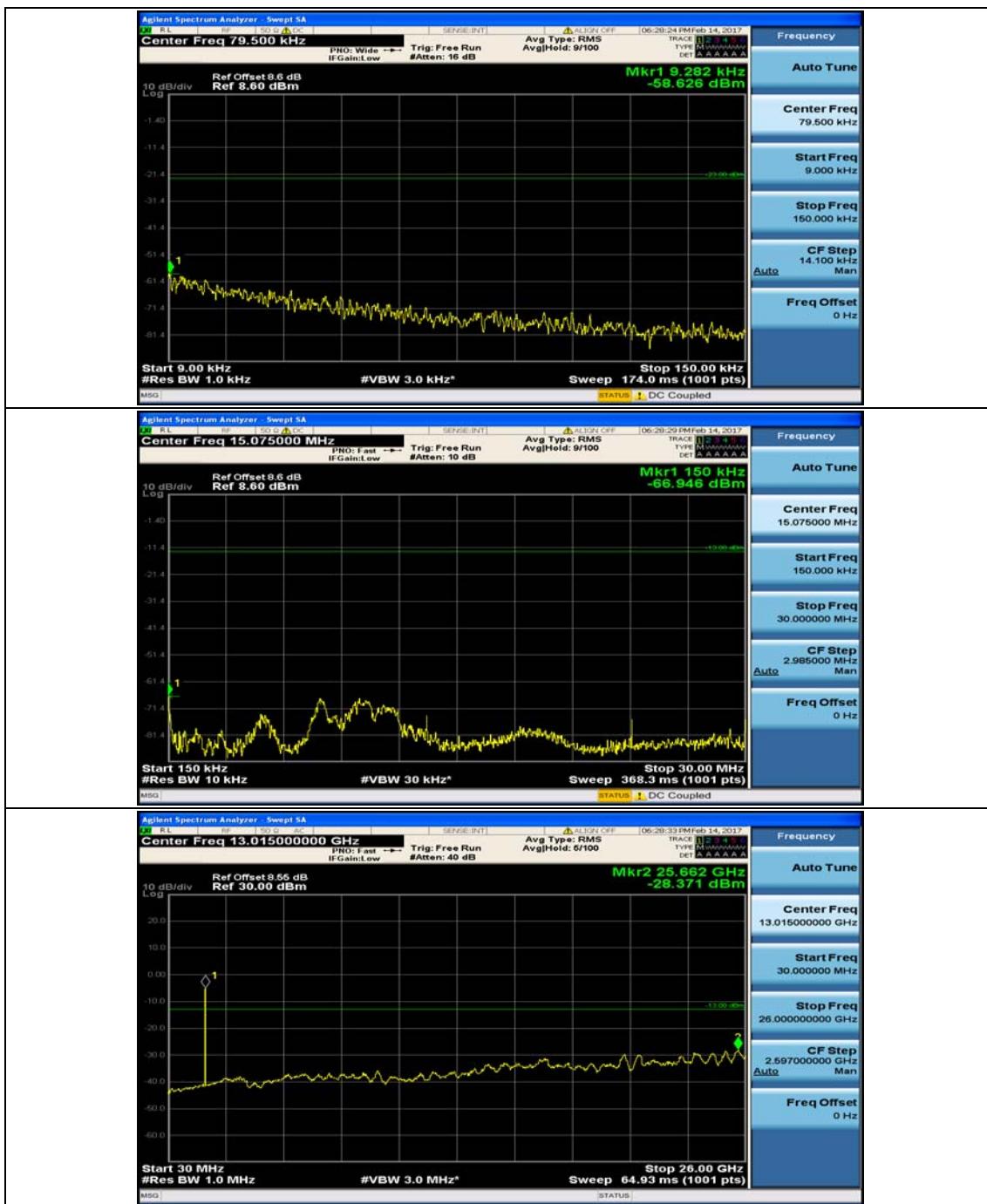


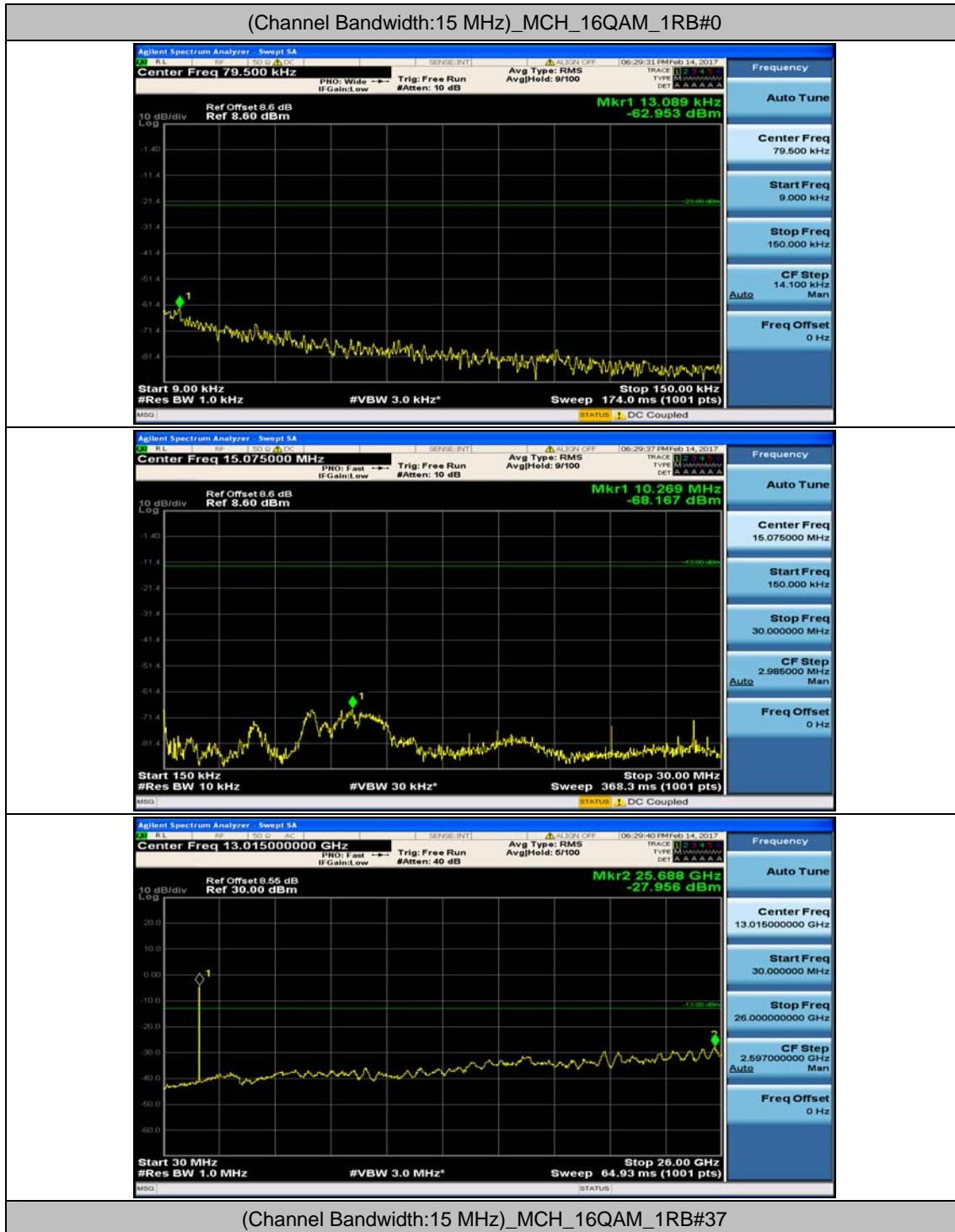


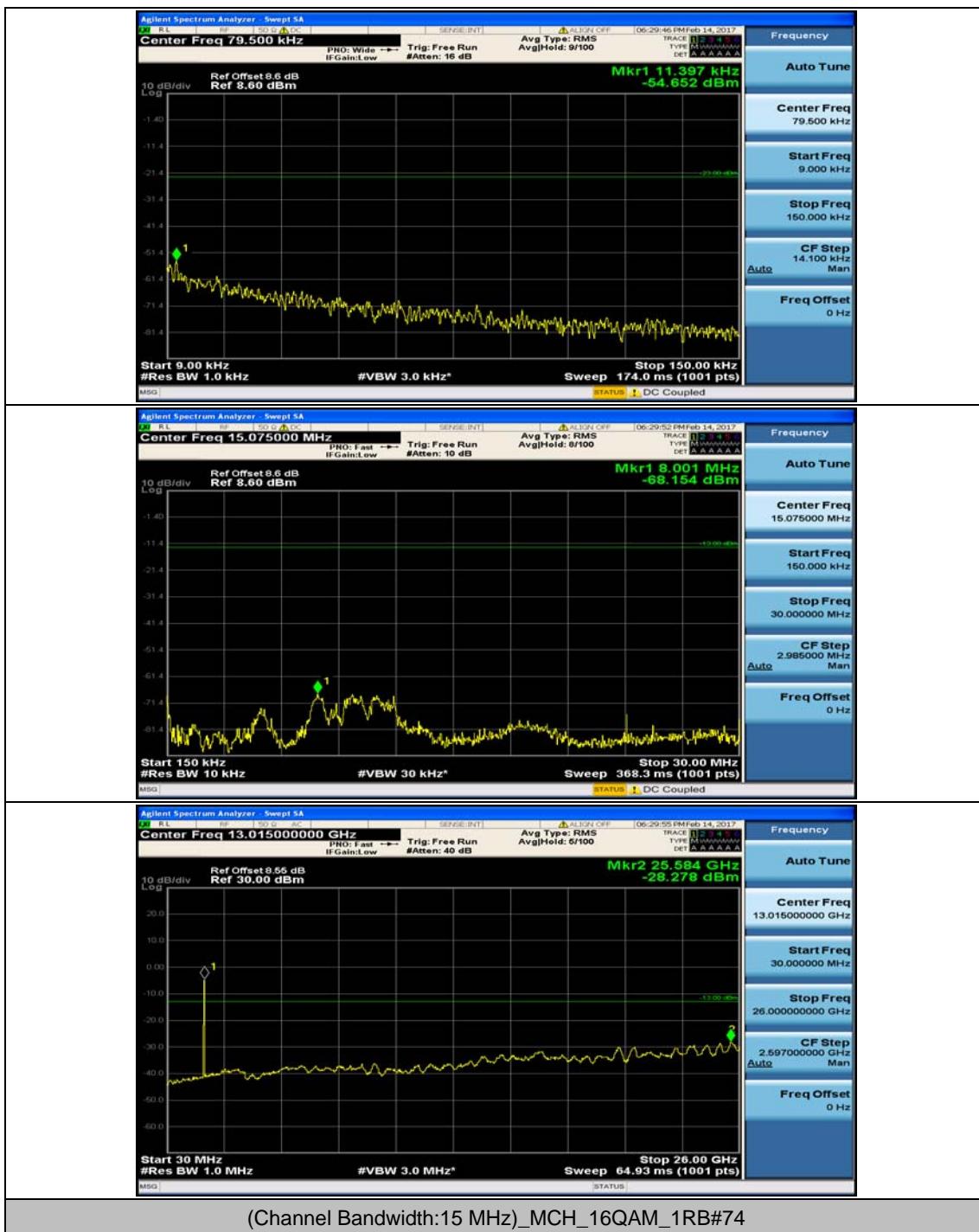




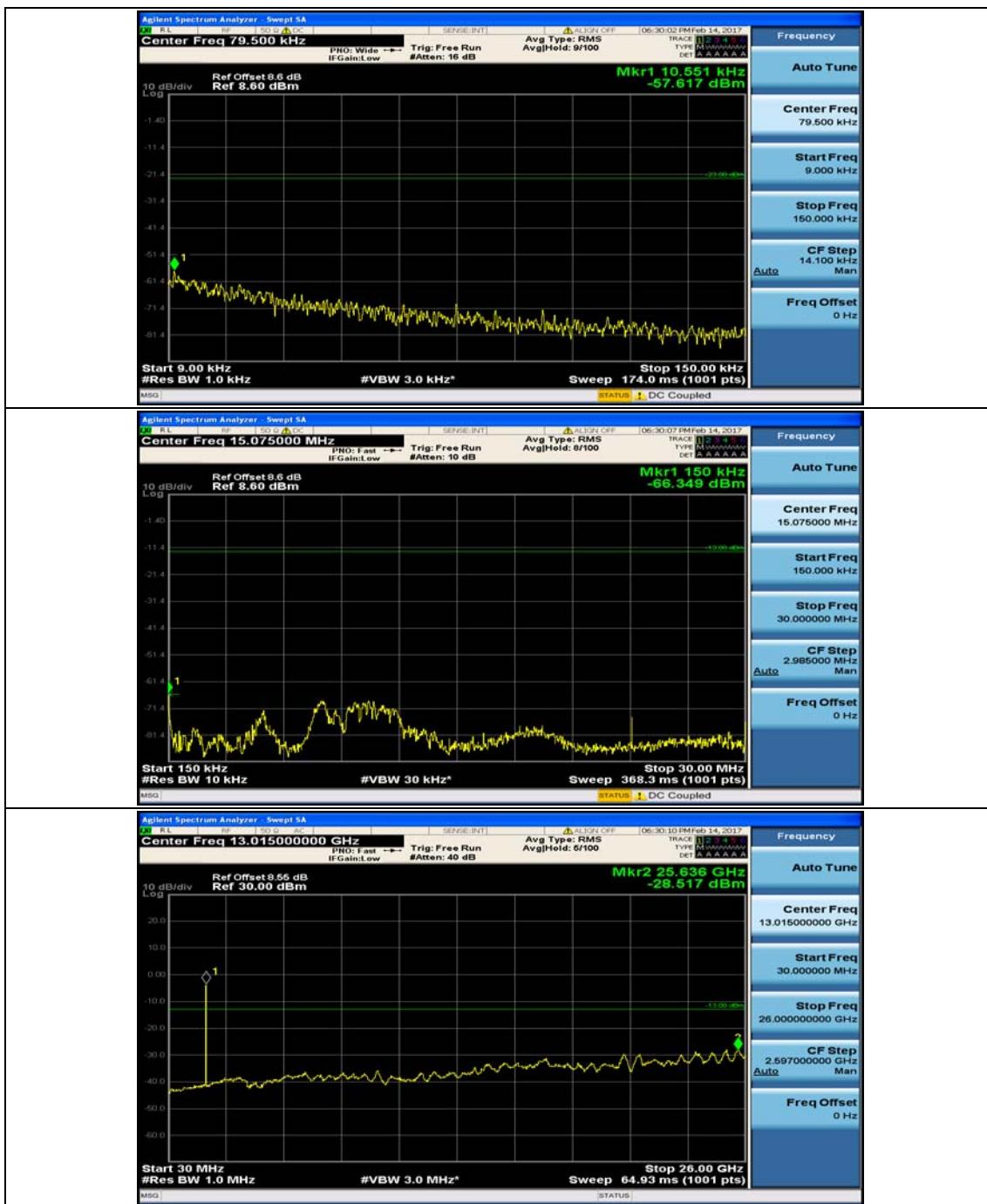


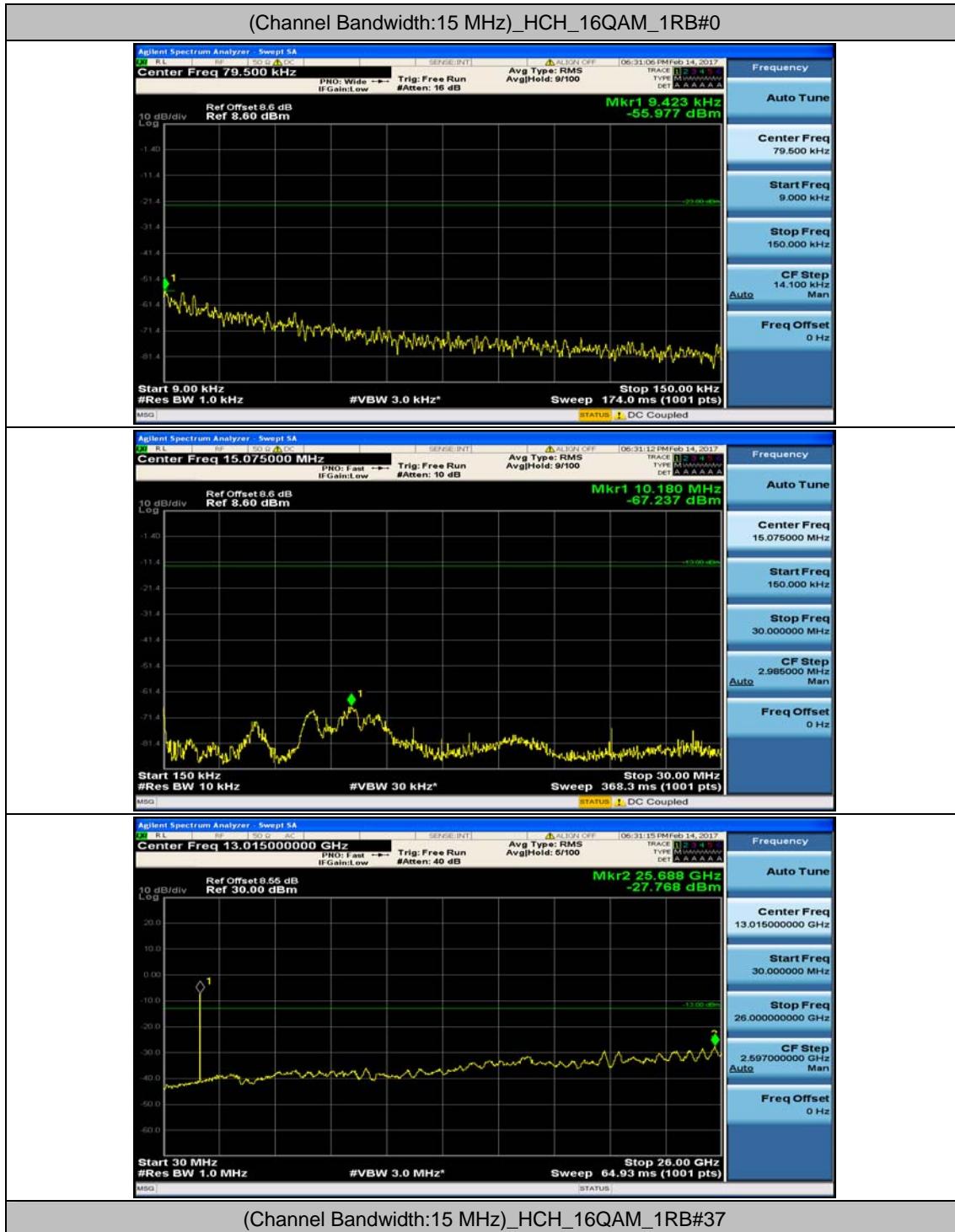


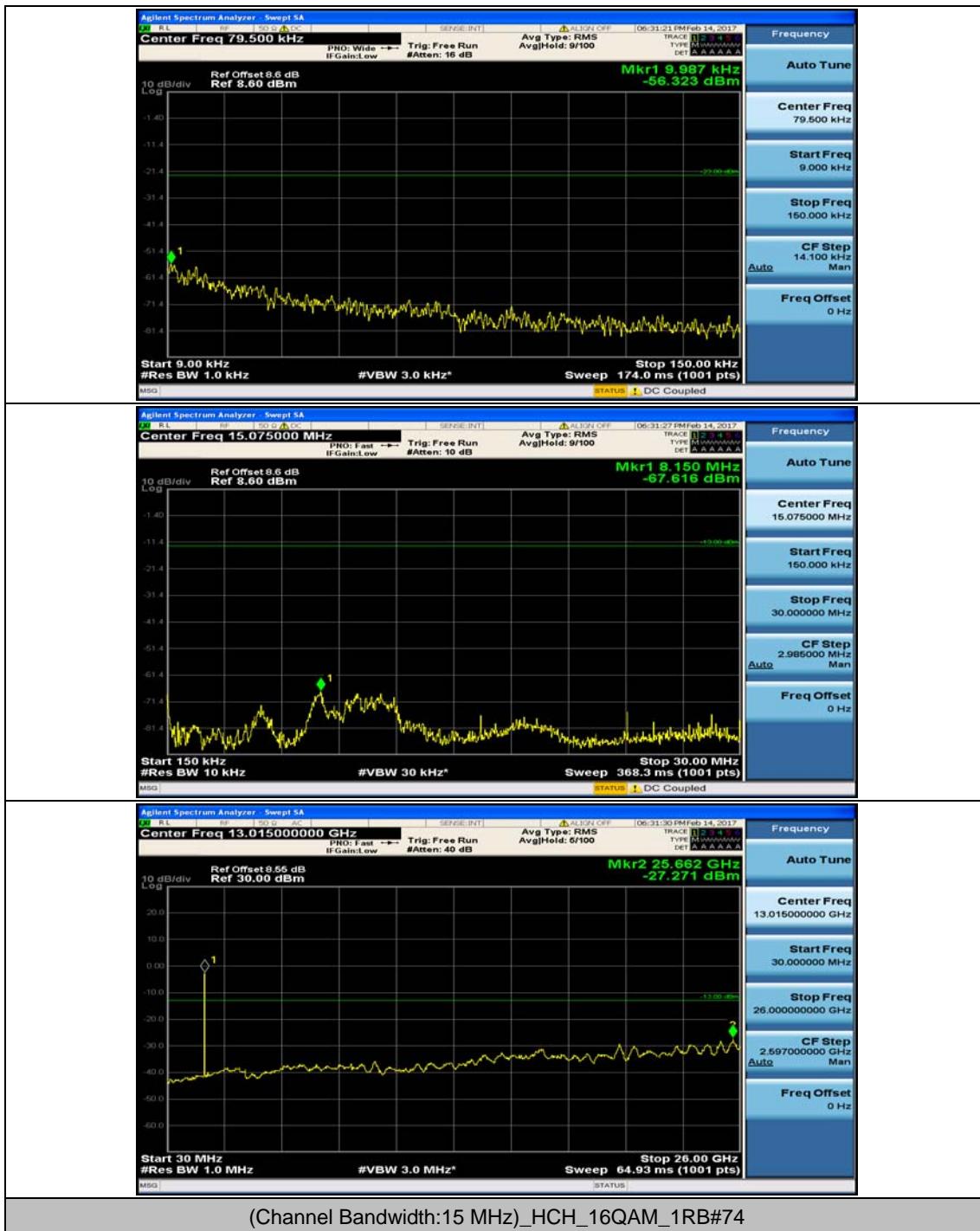


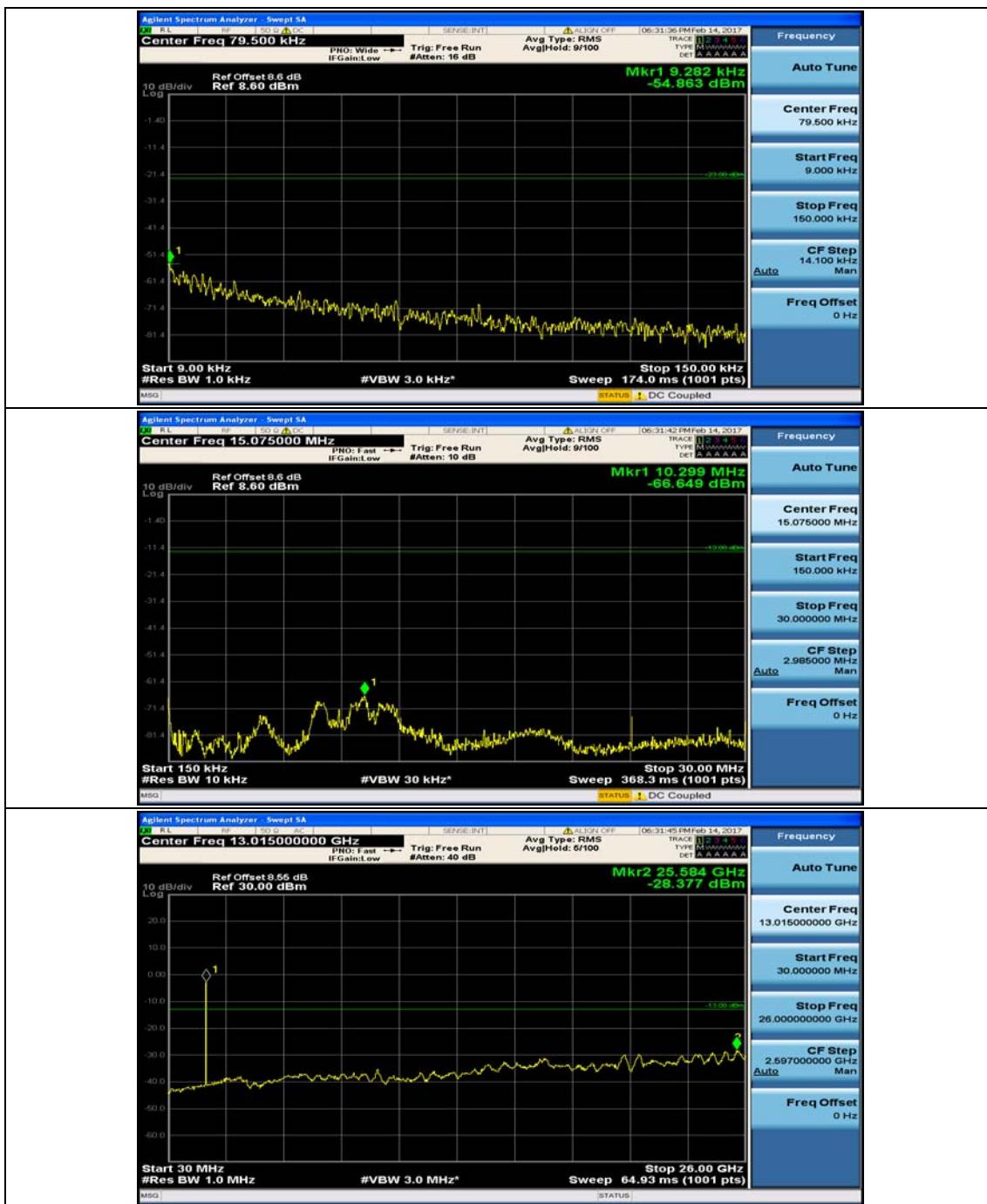


(Channel Bandwidth:15 MHz)\_MCH\_16QAM\_1RB#74

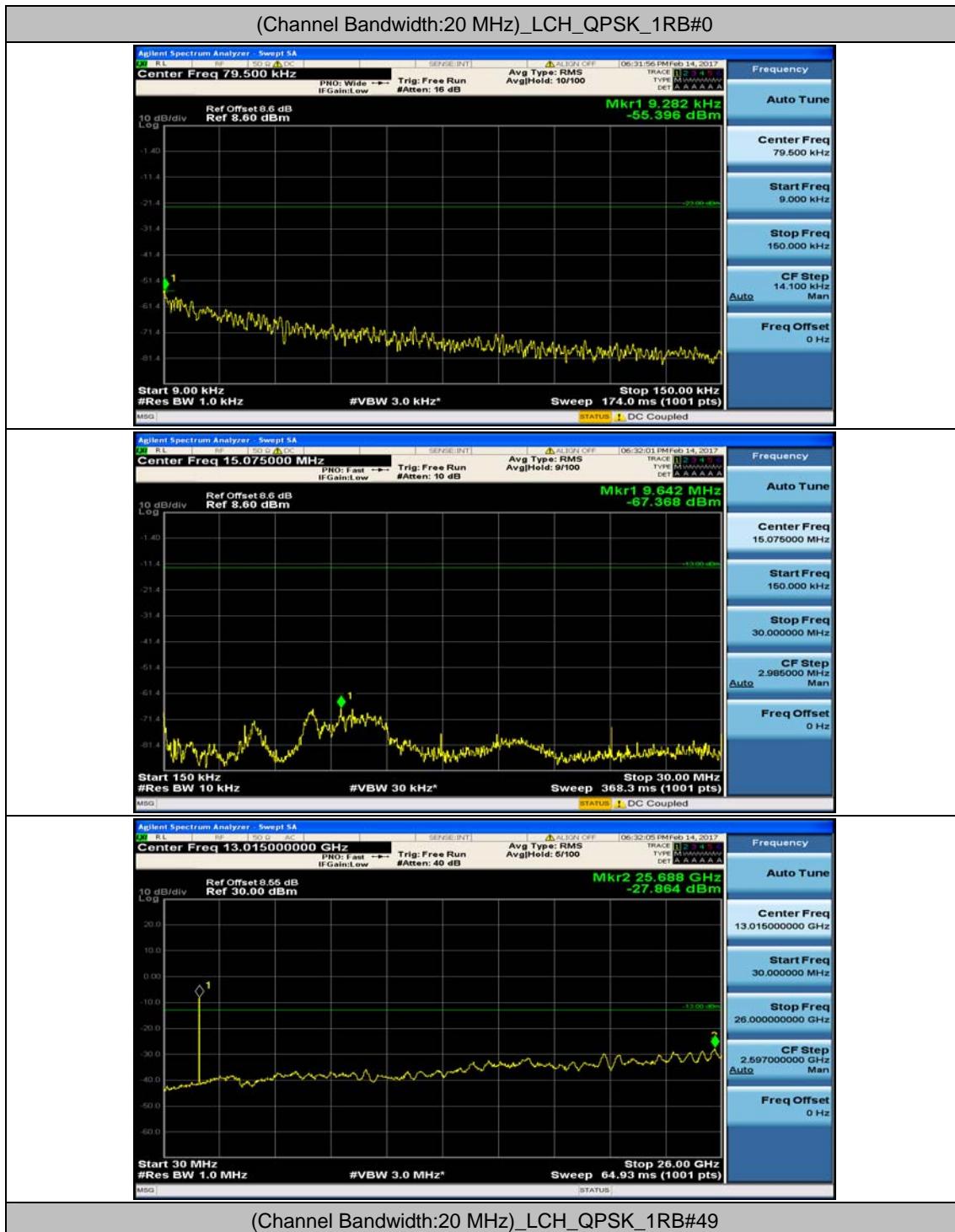


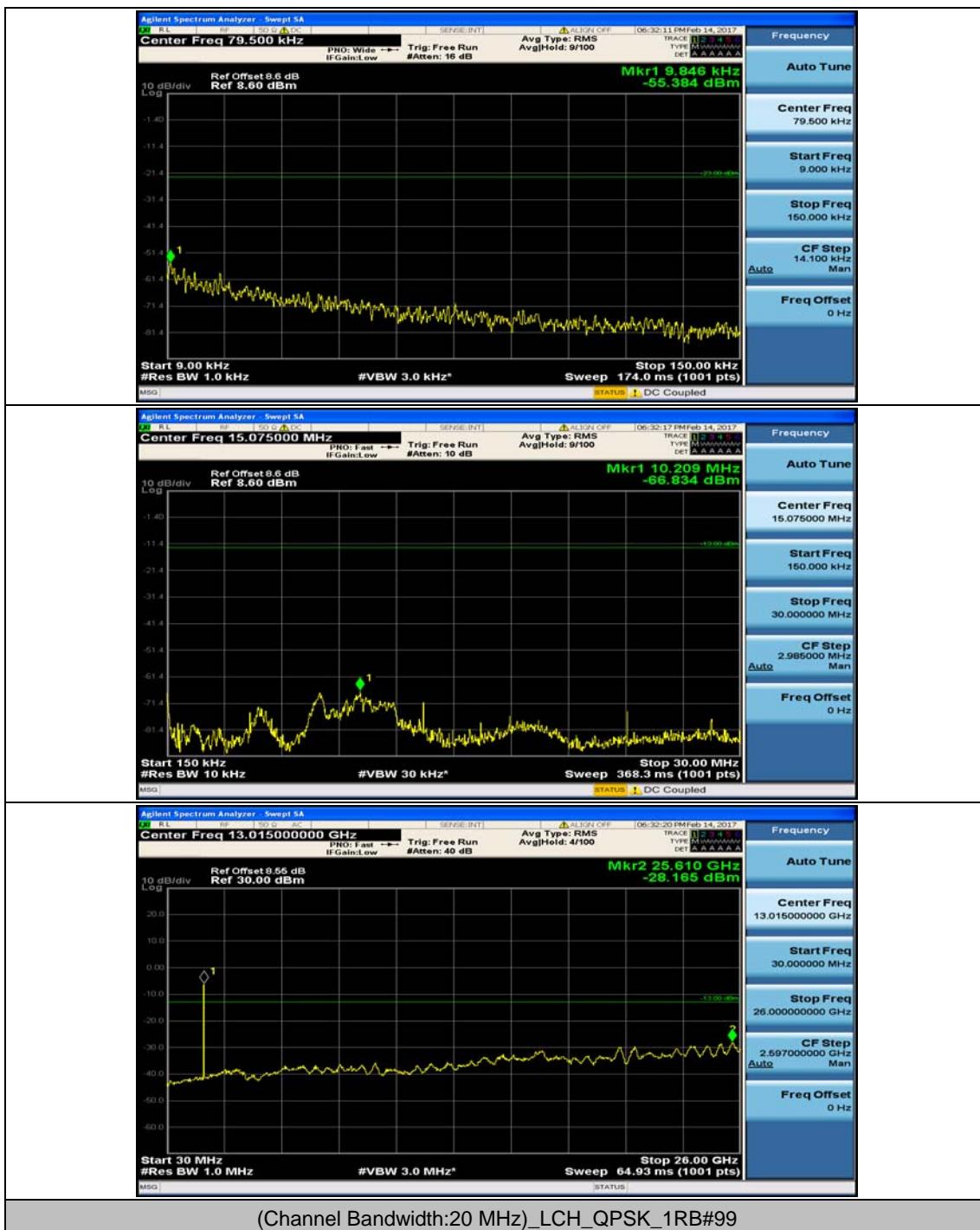


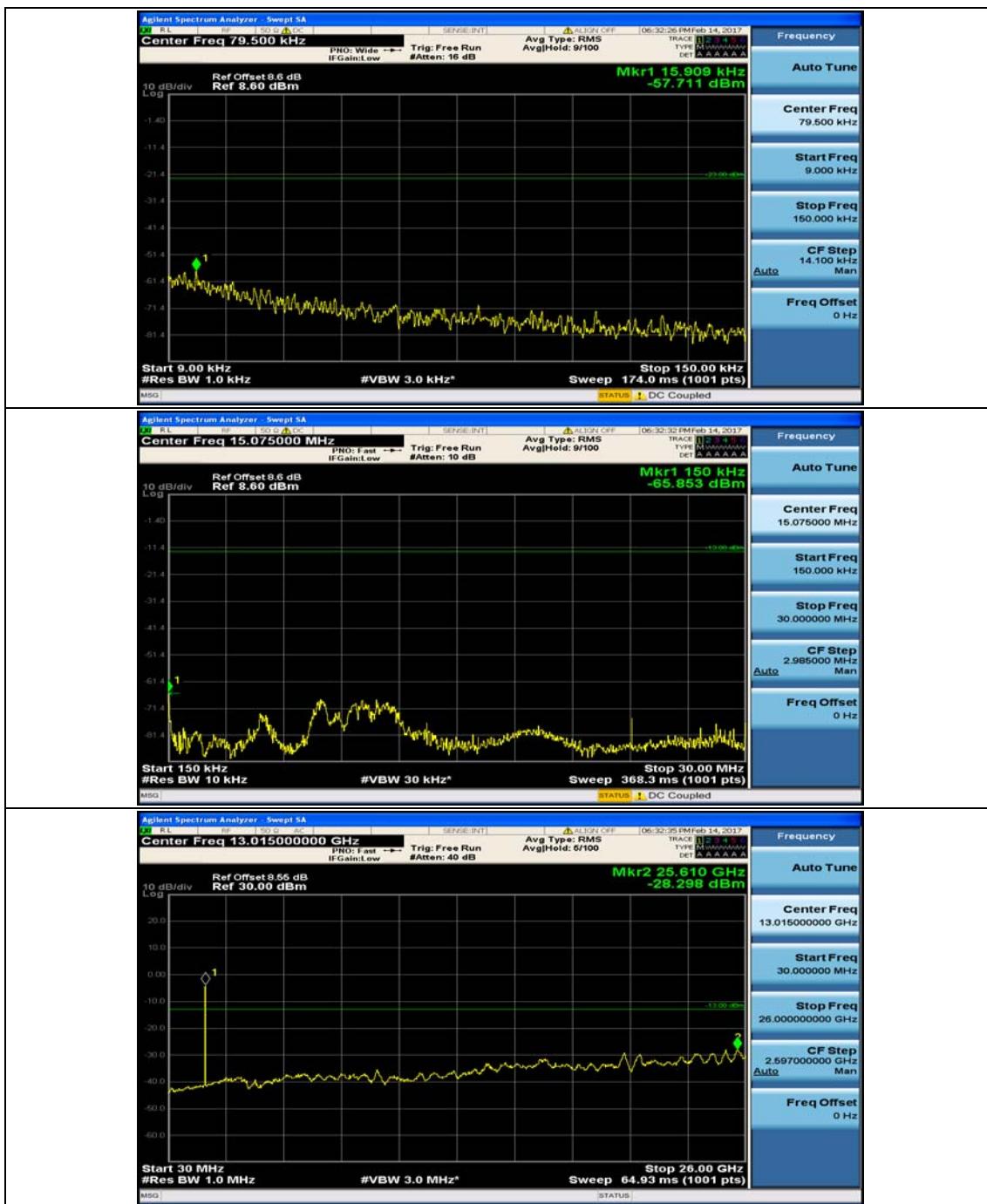


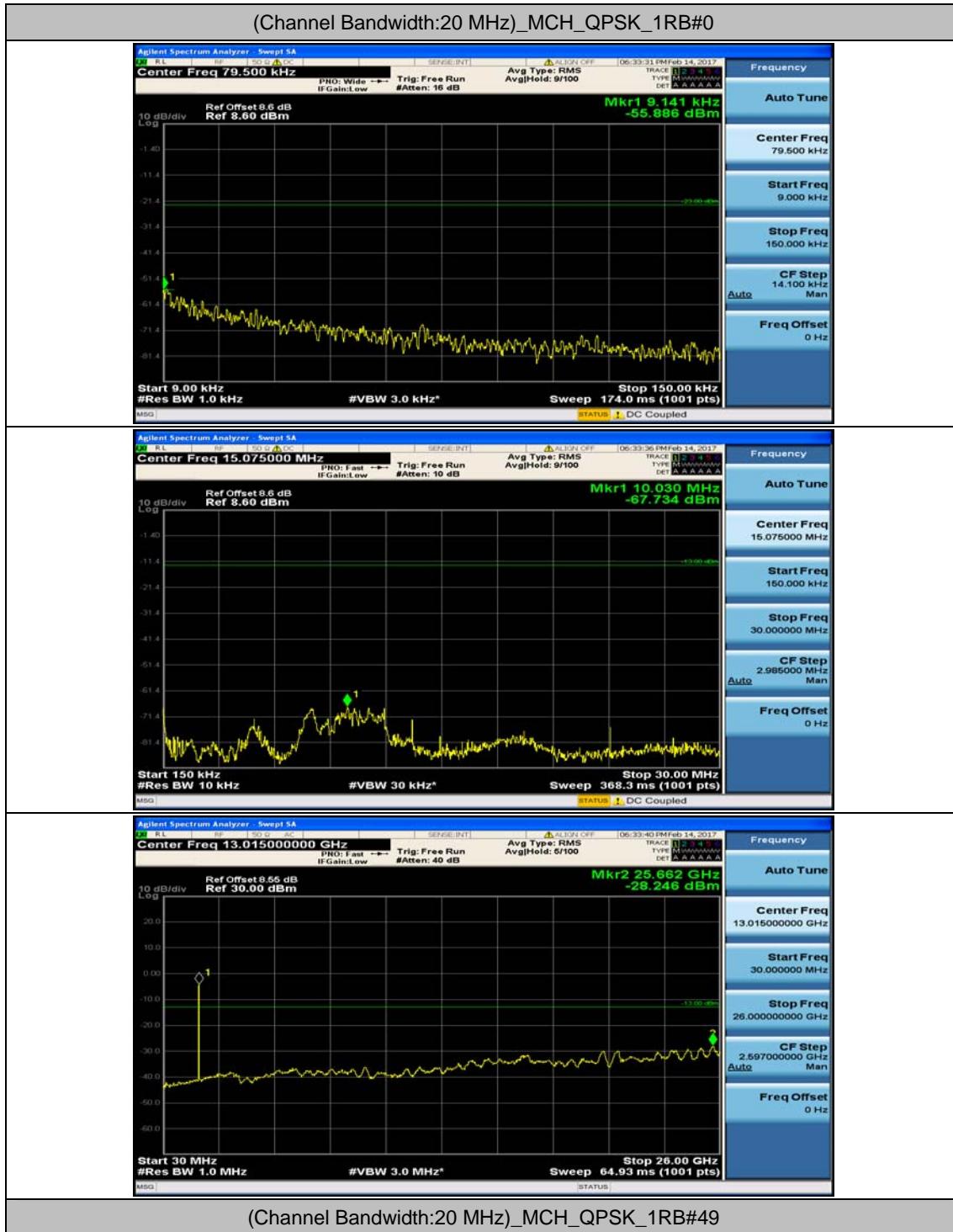


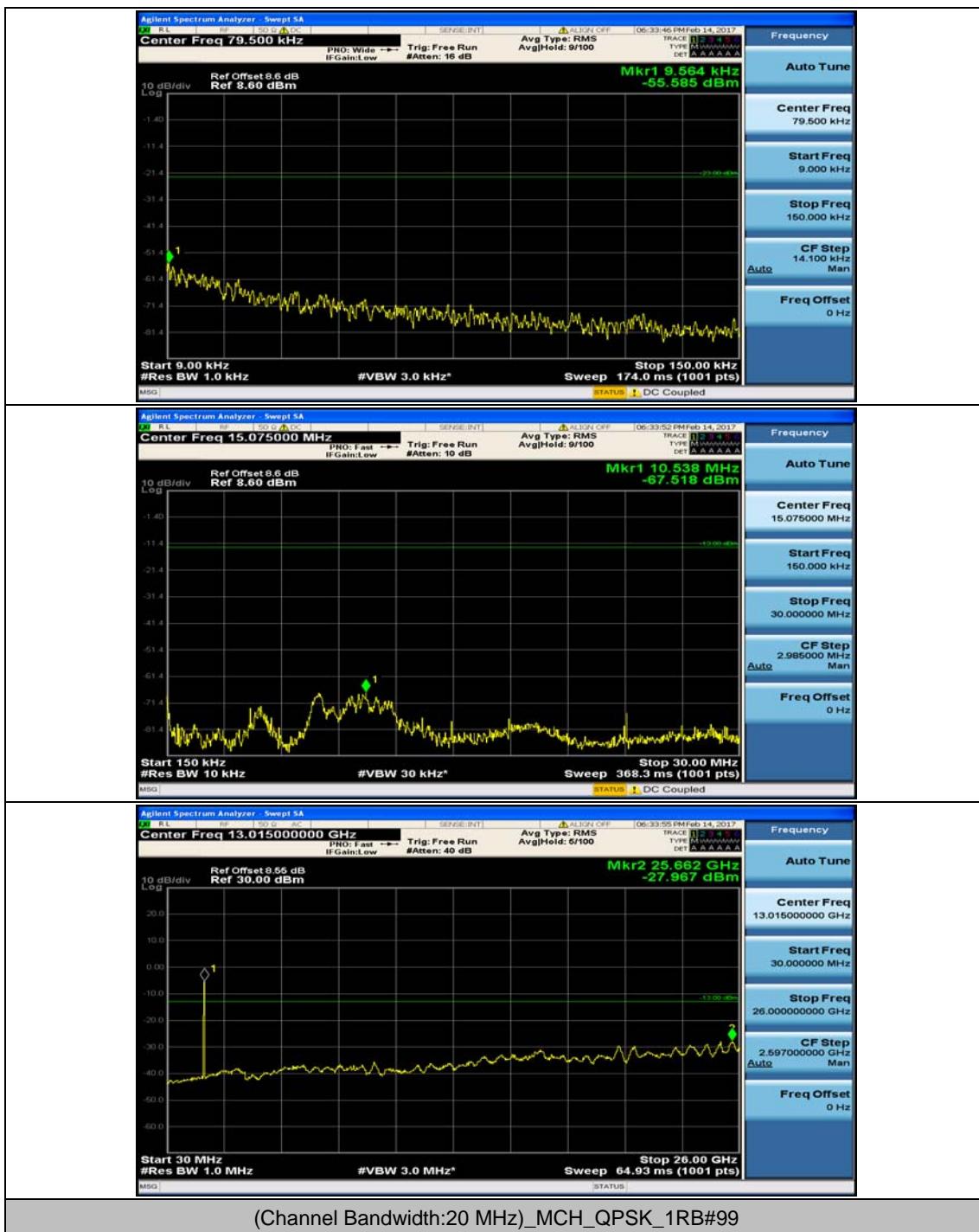
## Channel Bandwidth: 20 MHz

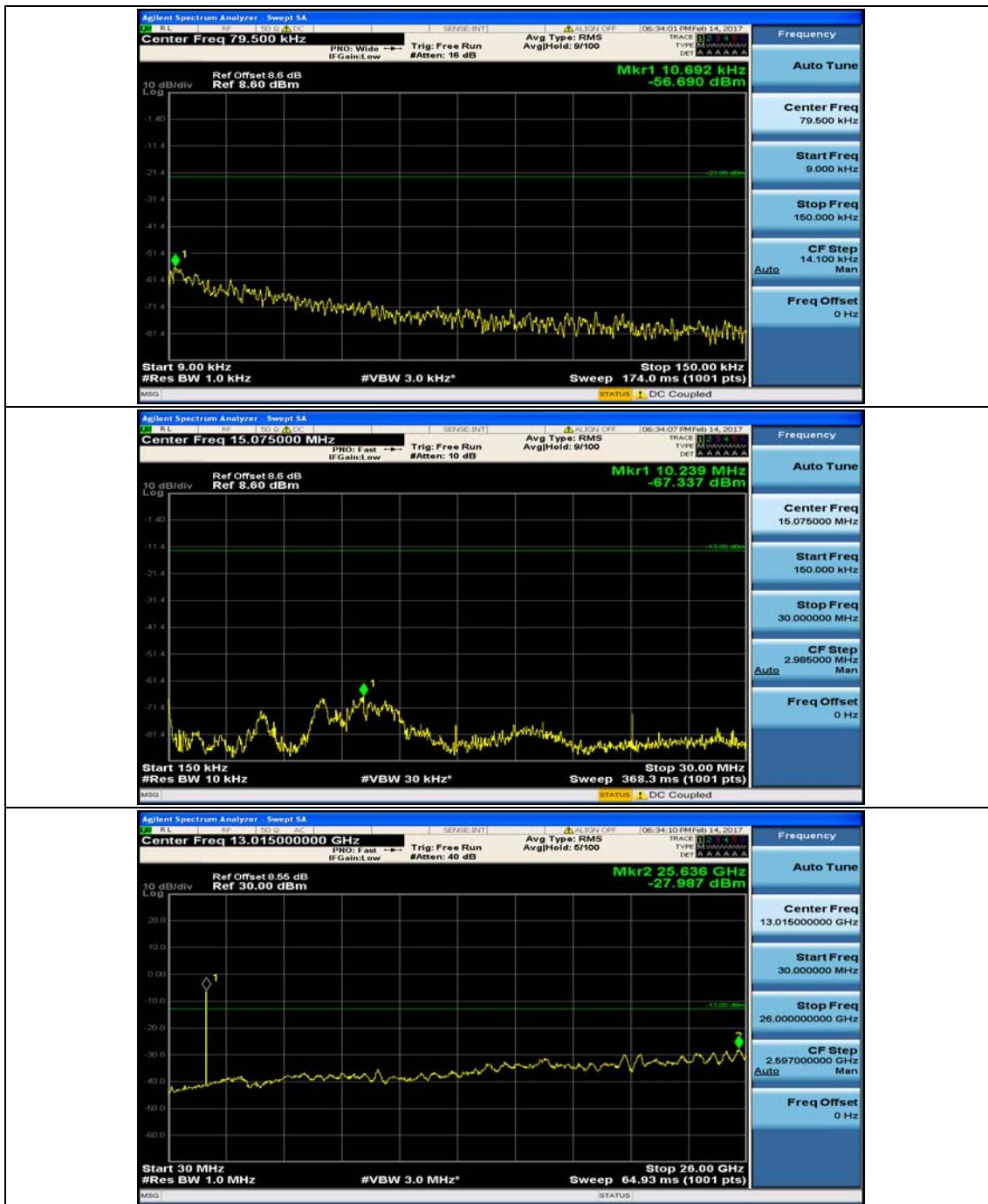


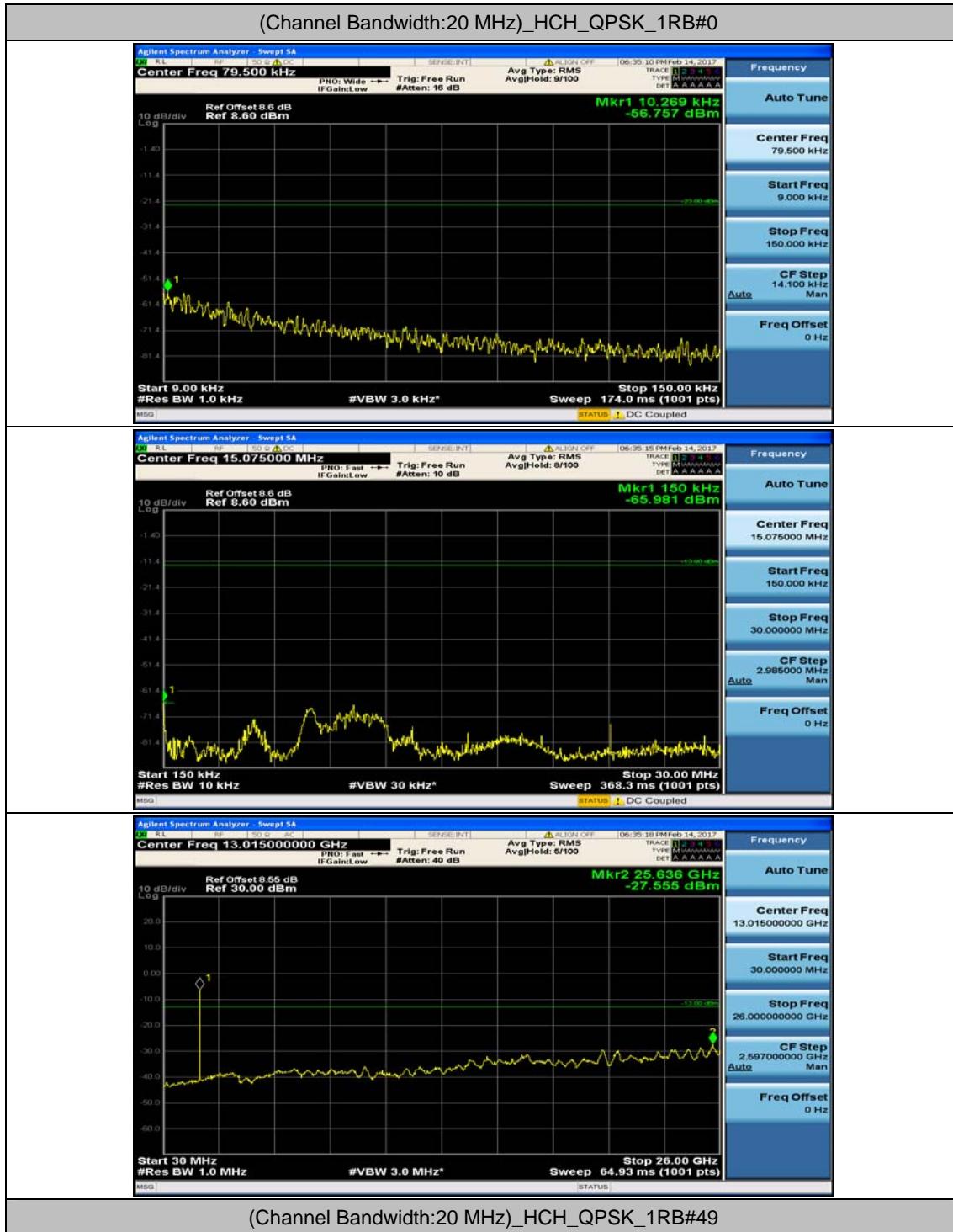


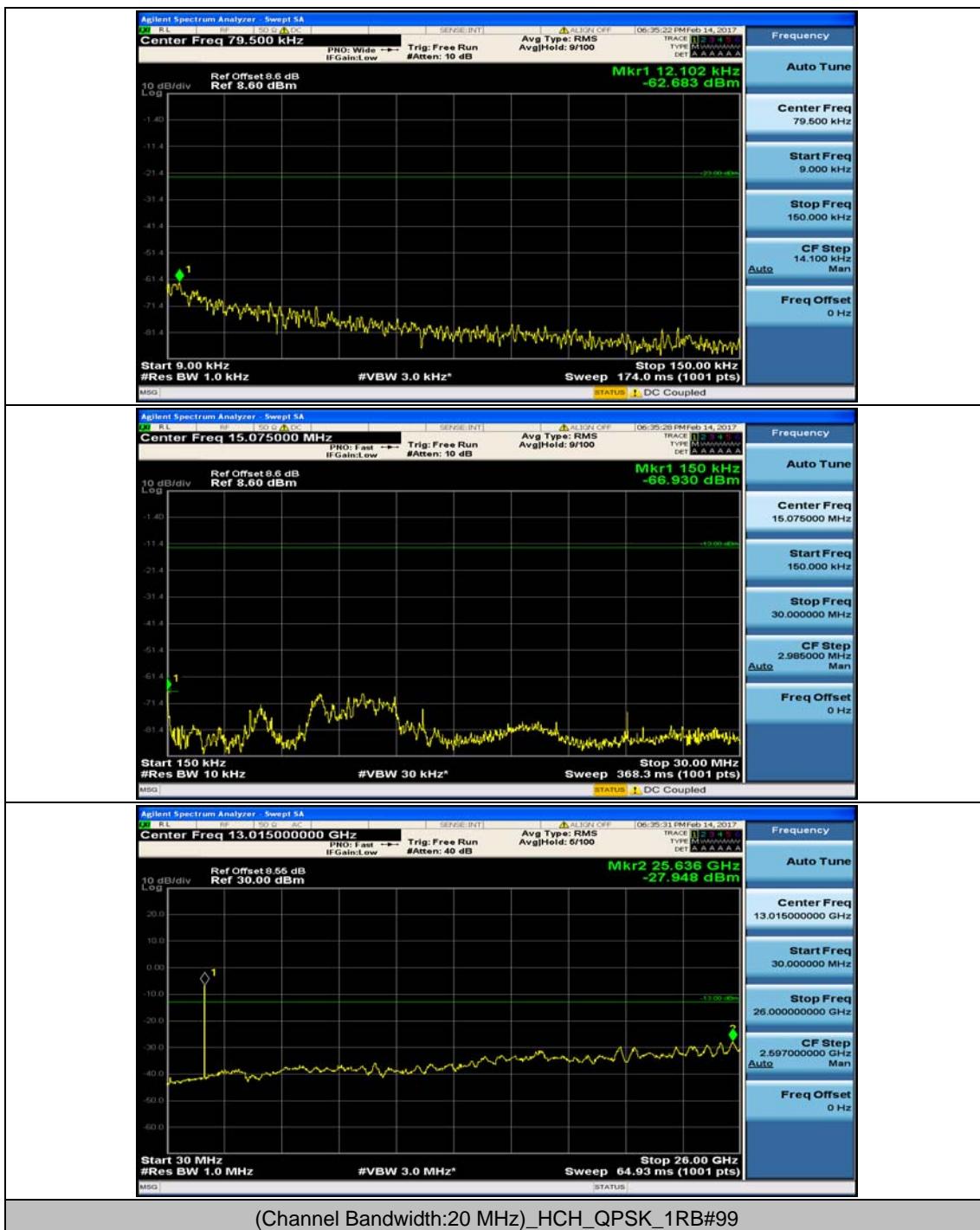


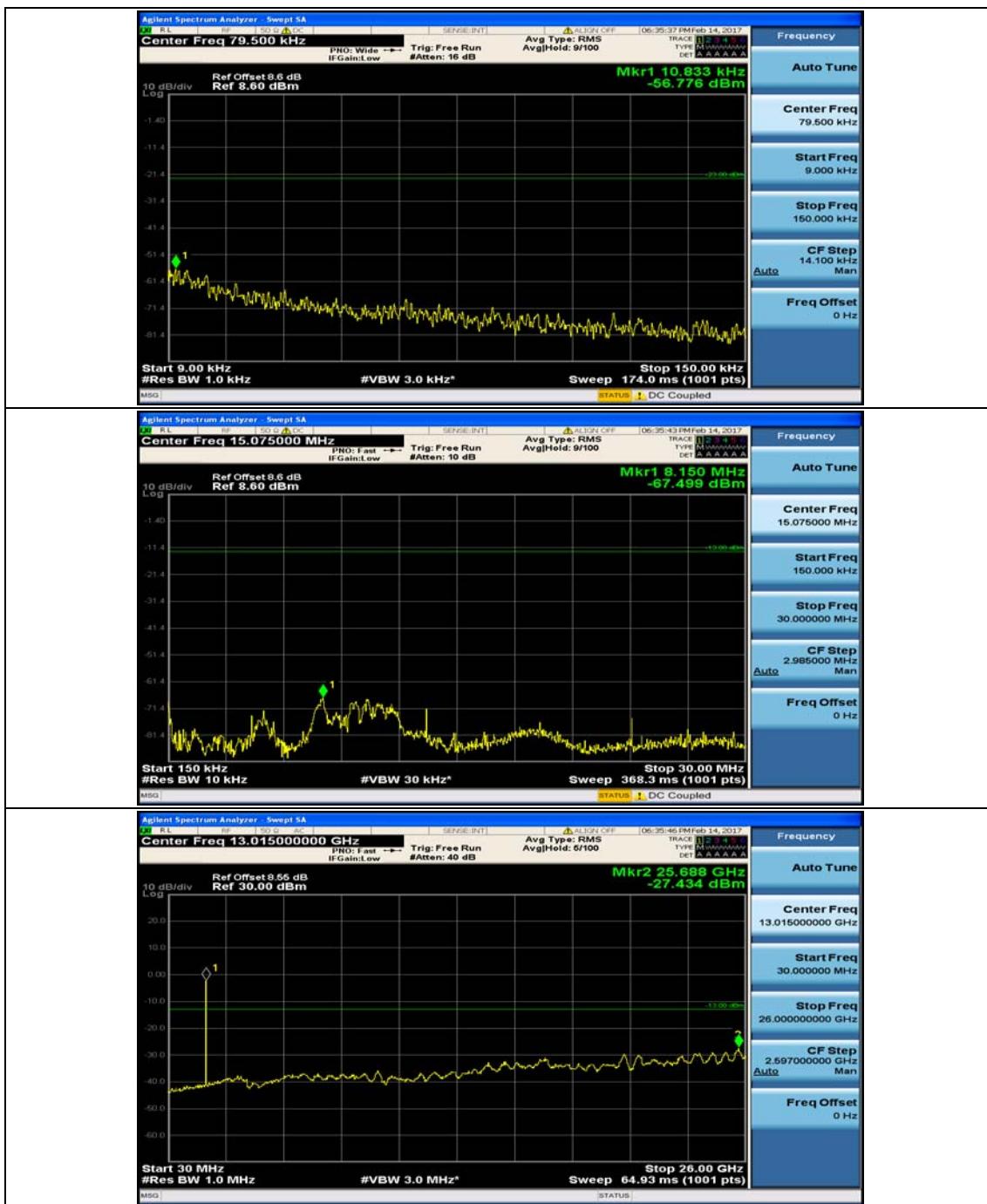


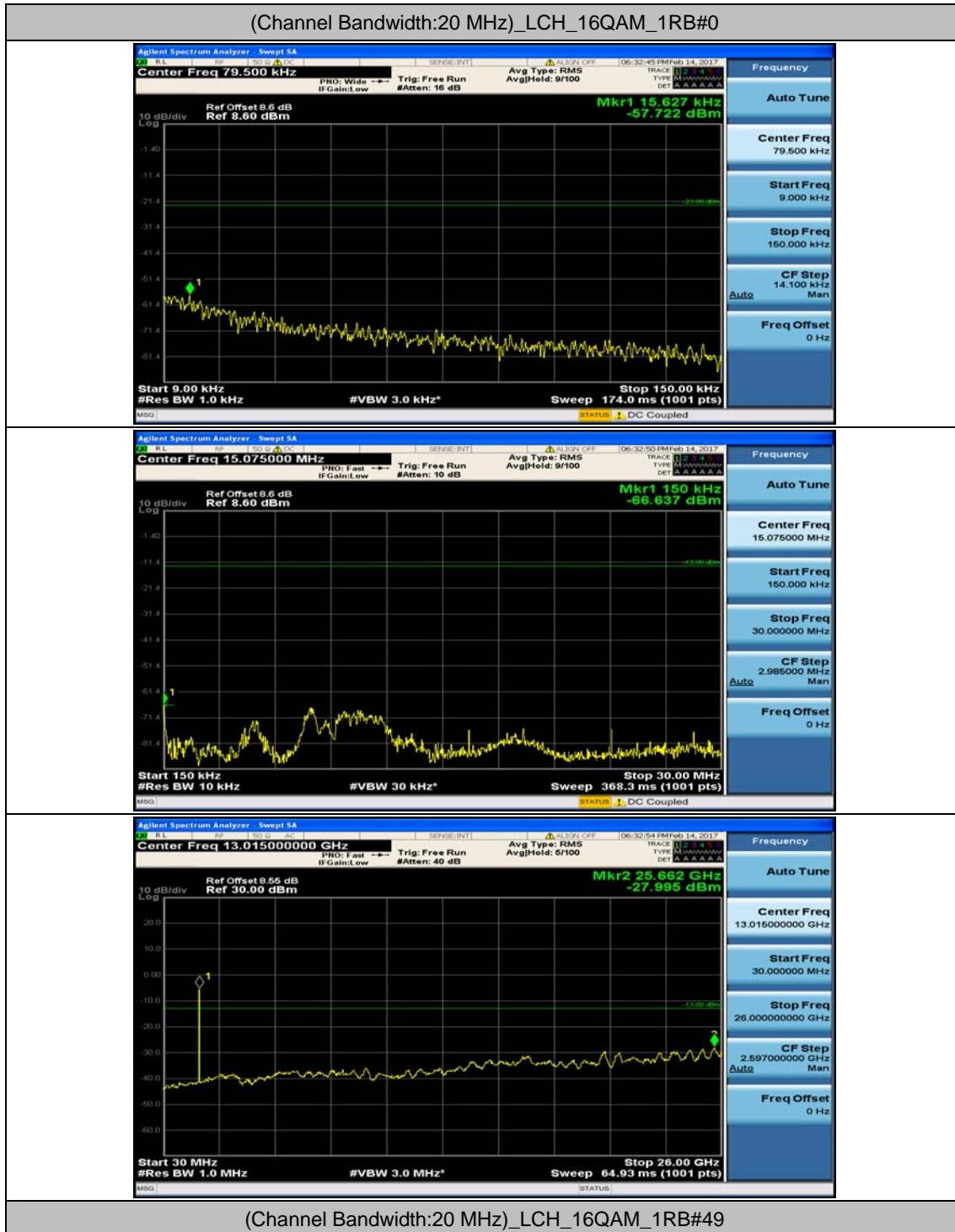


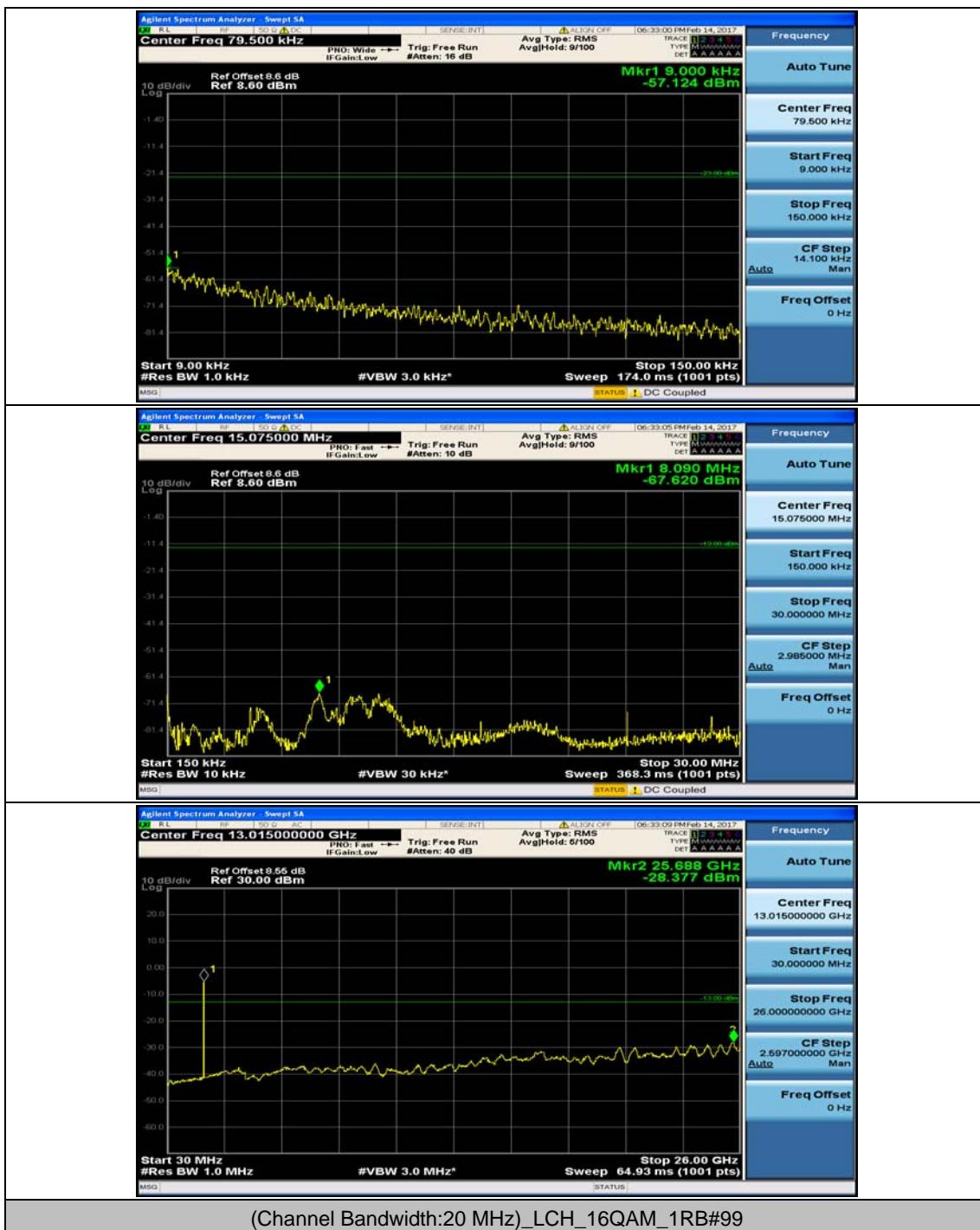


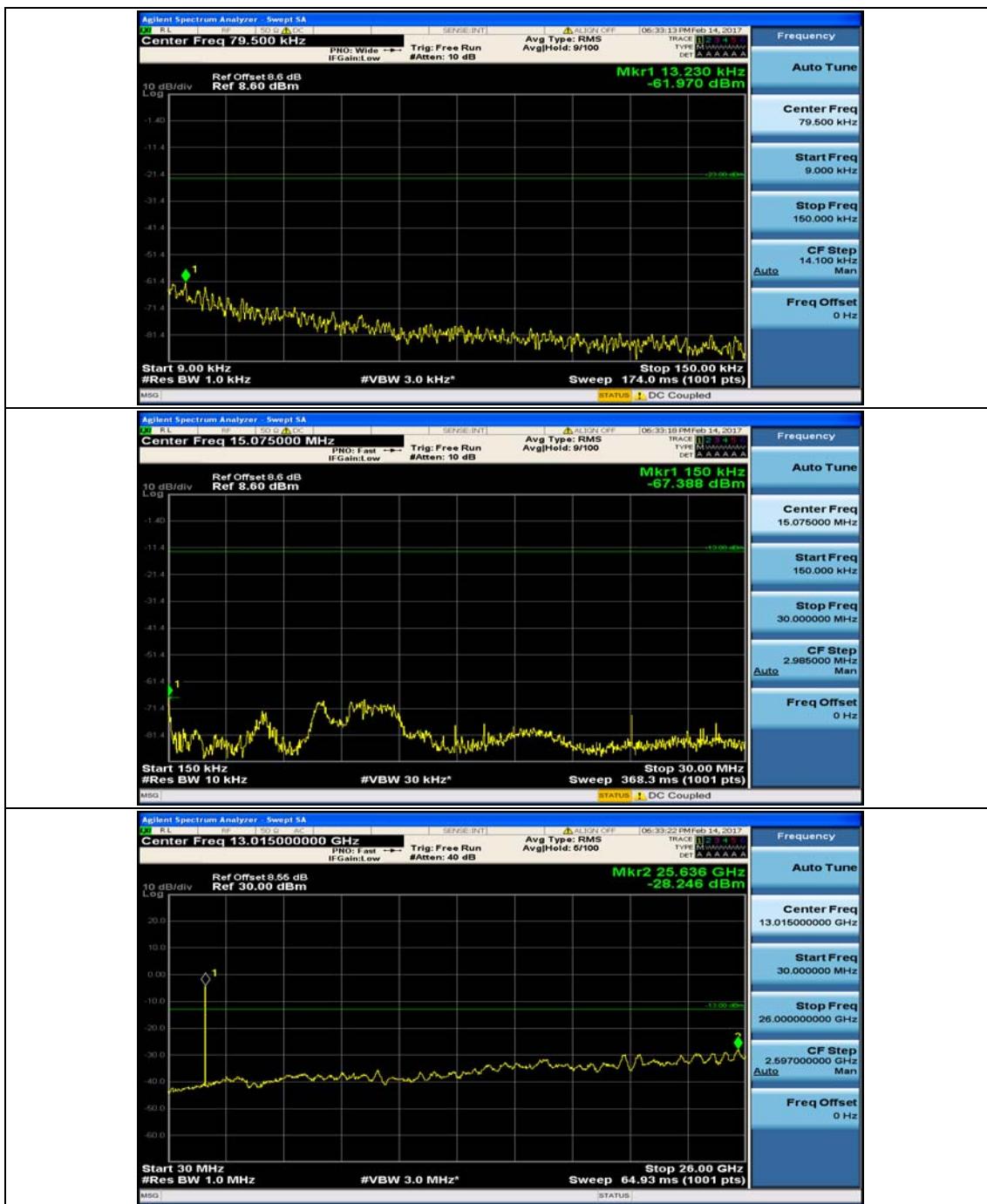


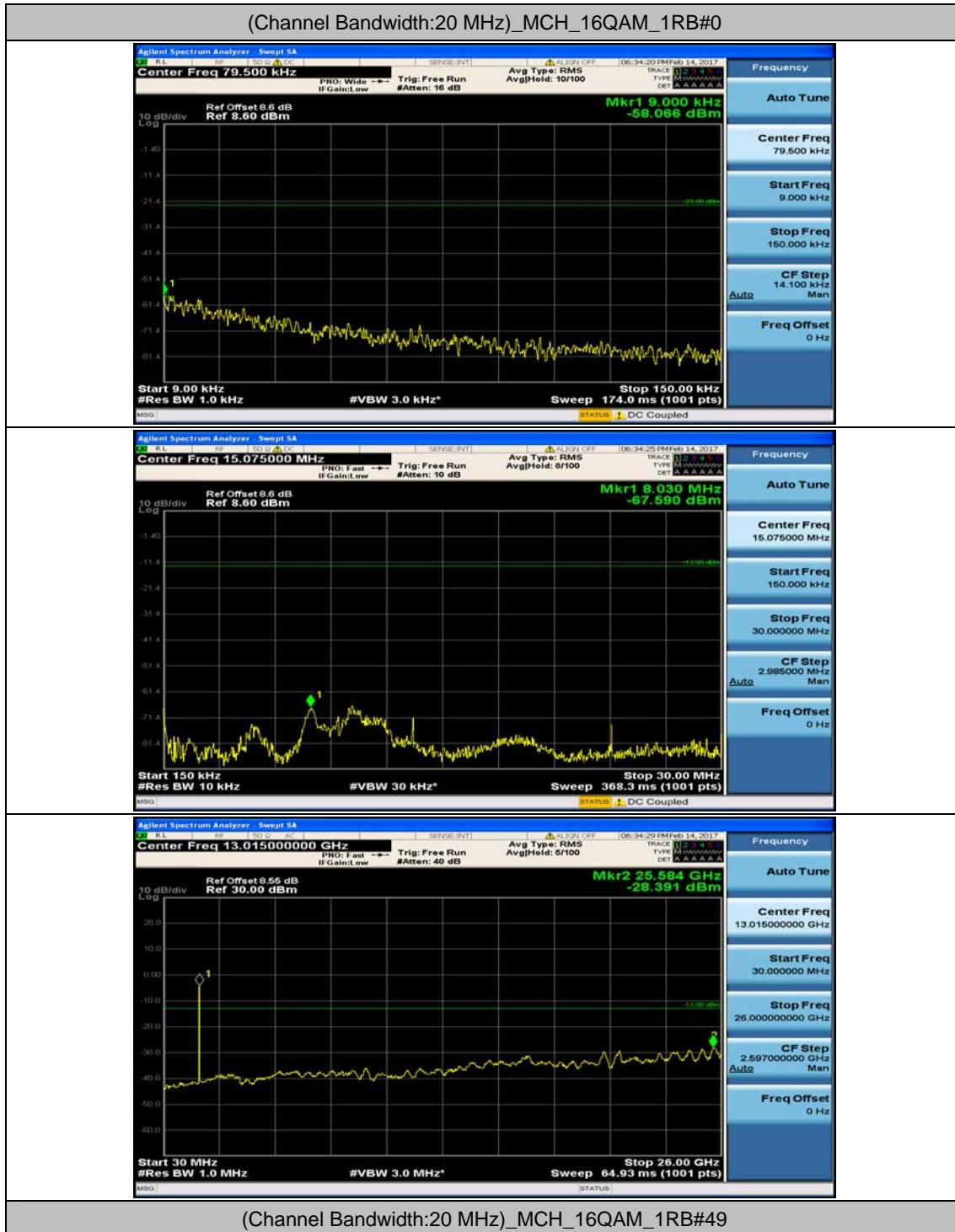


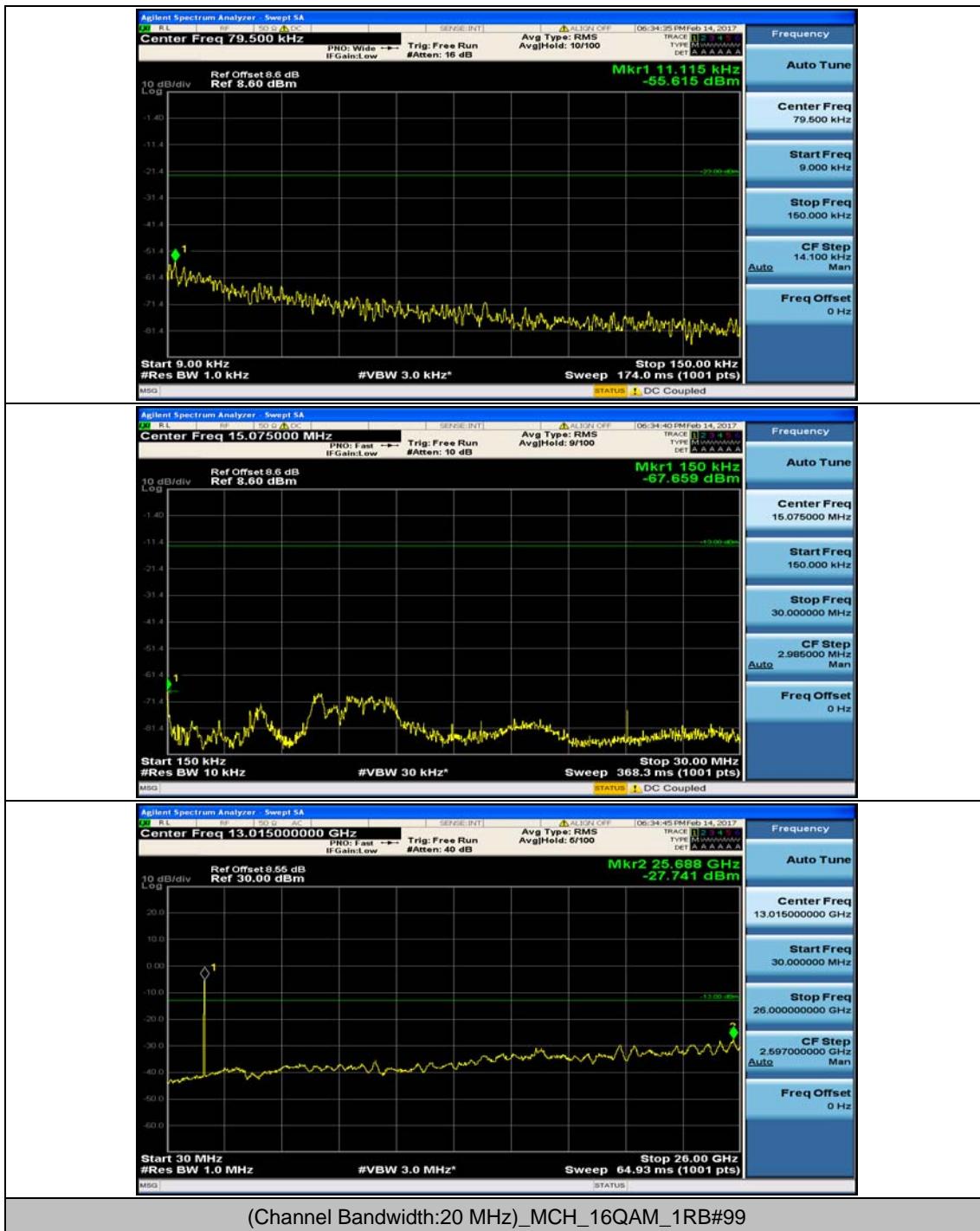




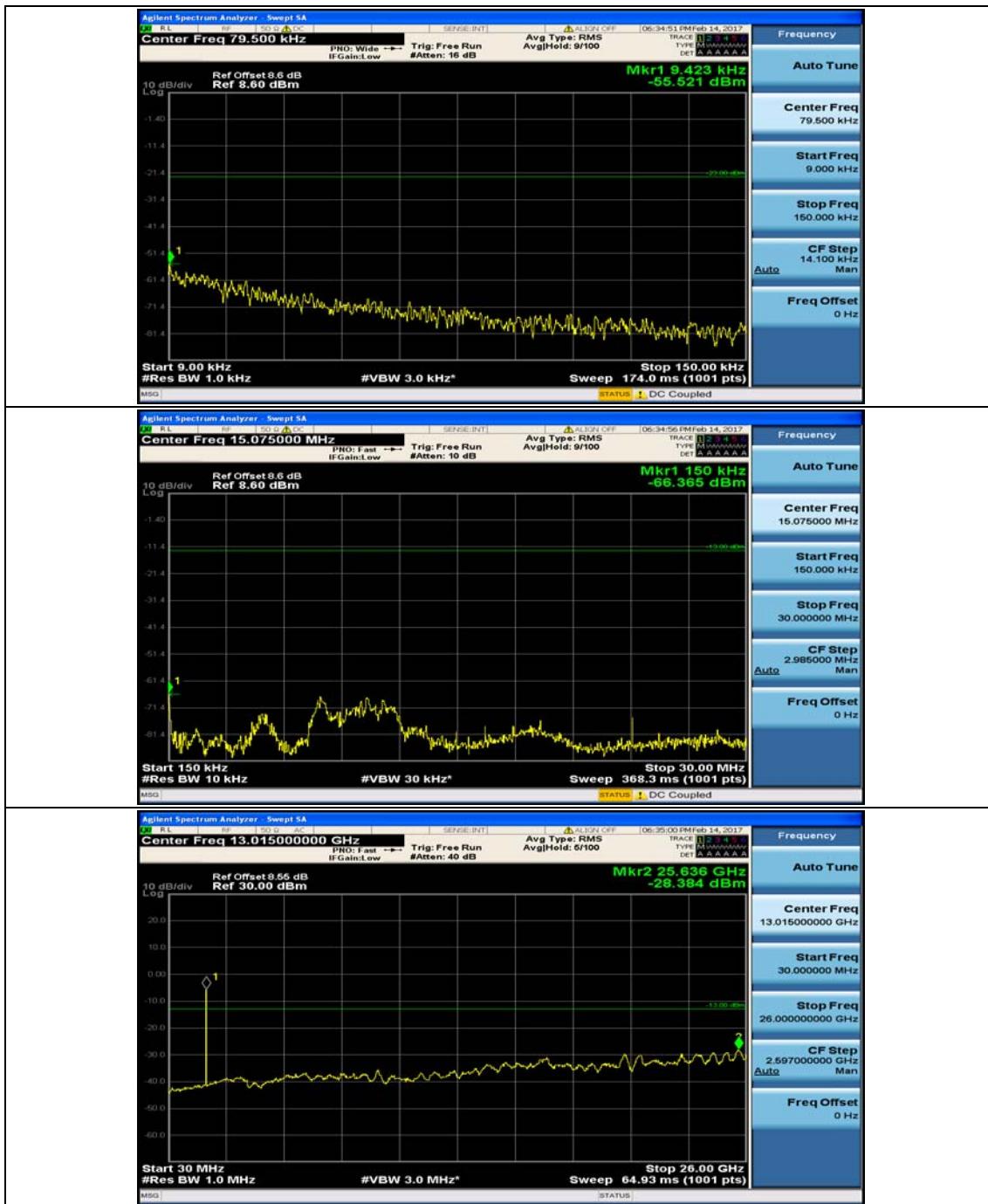


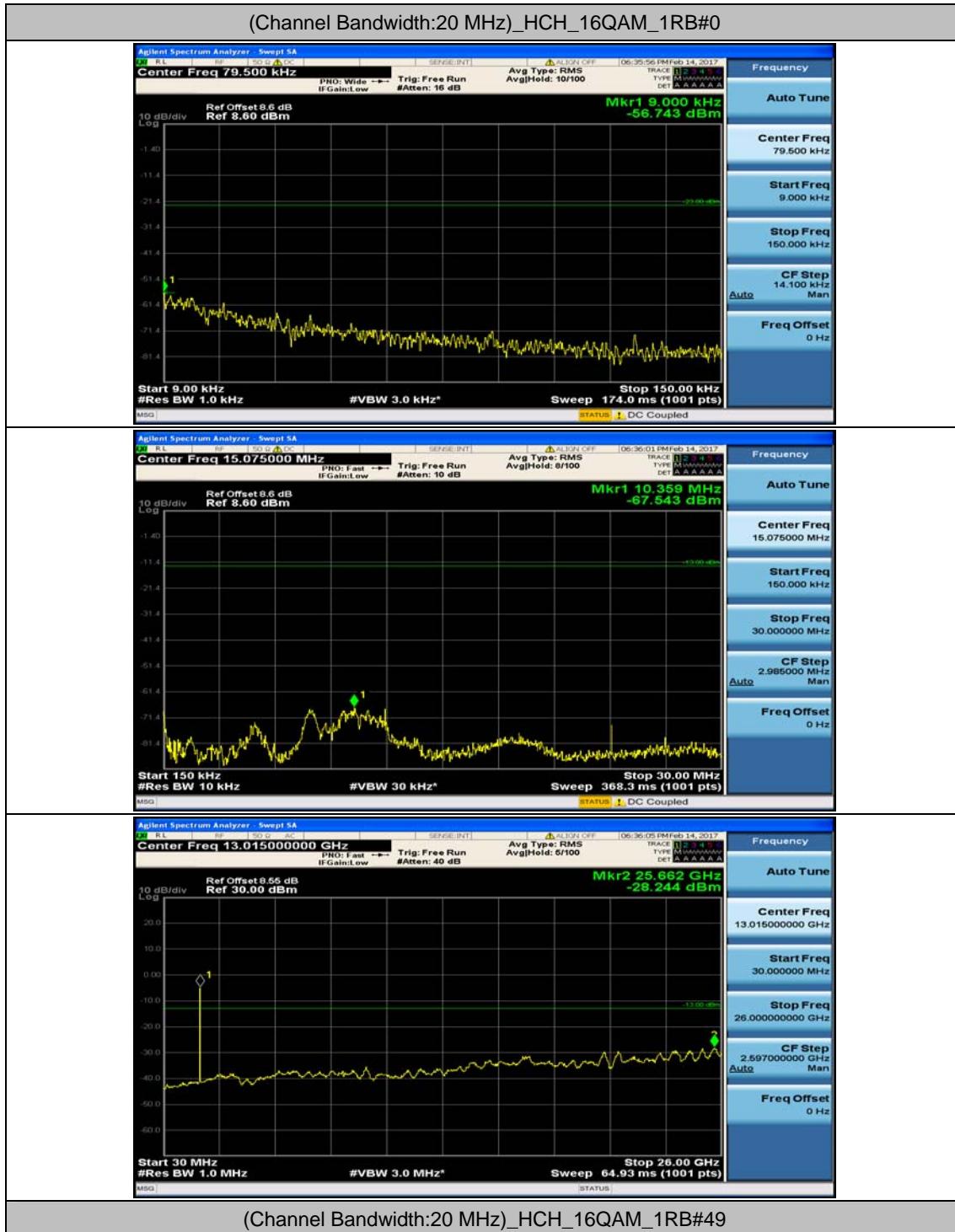


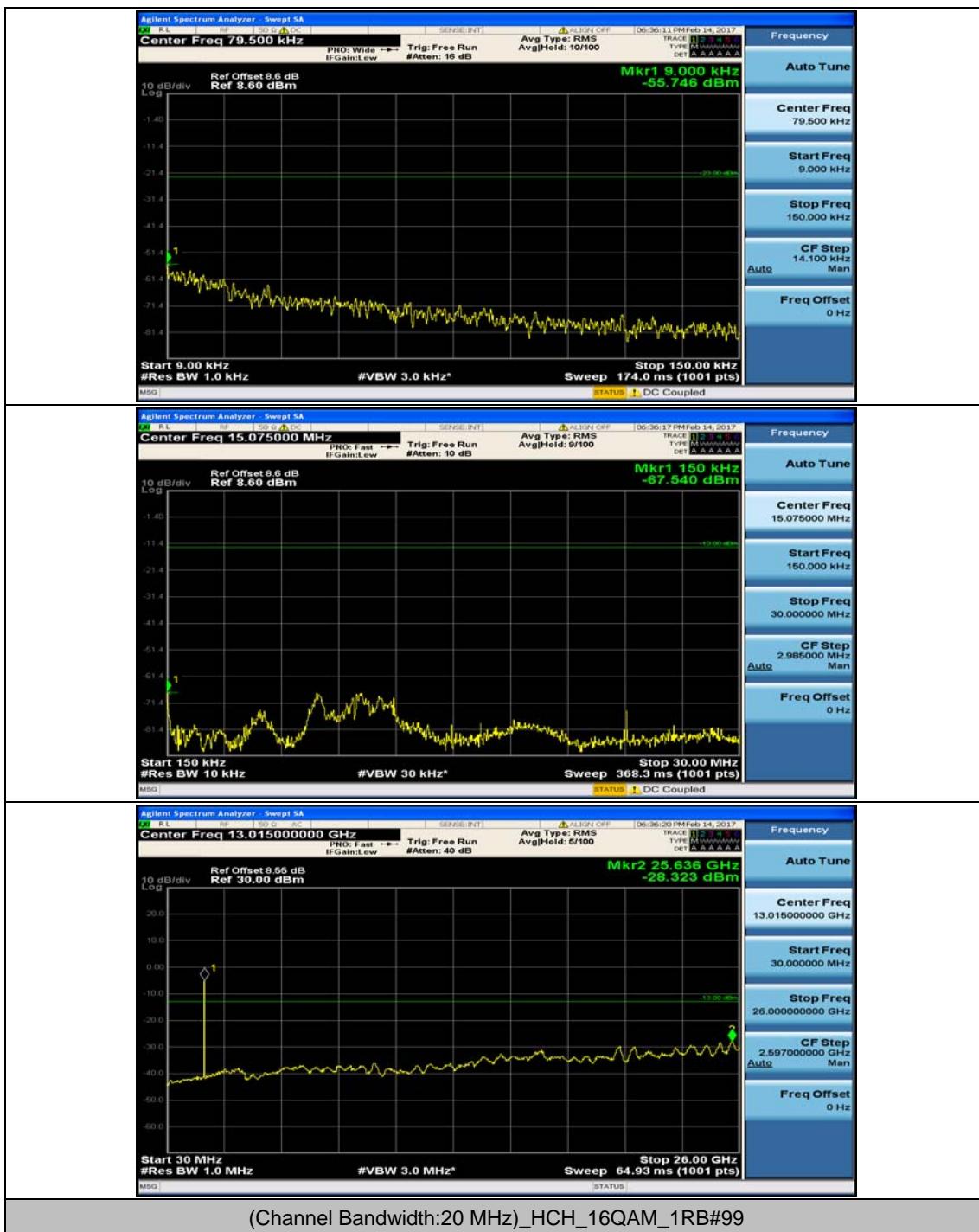


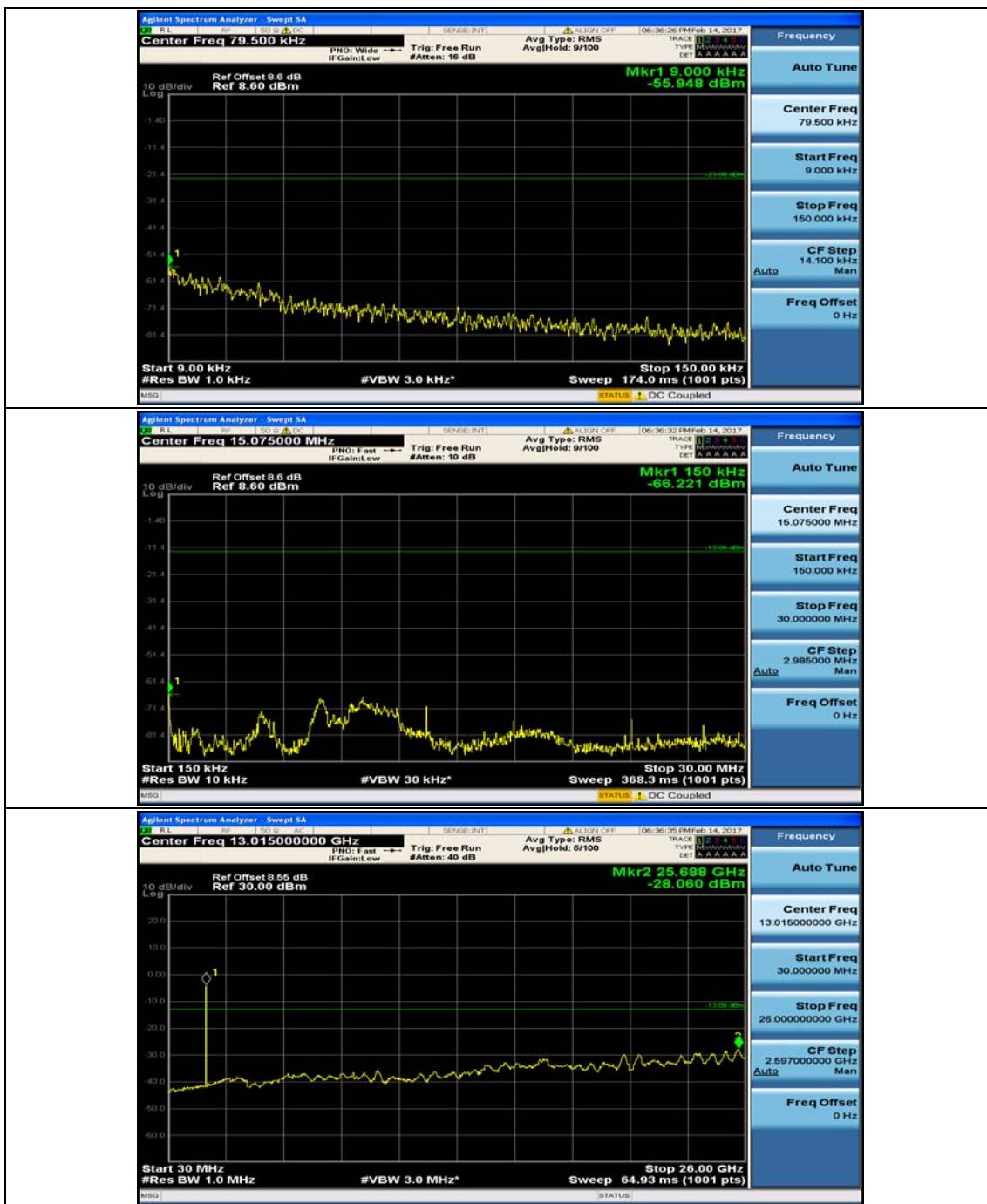


(Channel Bandwidth:20 MHz)\_MCH\_16QAM\_1RB#99









## 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	3.18	0.001859	± 2.5	PASS
		VN	TN	3.63	0.002122	± 2.5	PASS
		VH	TN	-1.45	-0.000848	± 2.5	PASS
	MCH	VL	TN	4.06	0.002343	± 2.5	PASS
		VN	TN	2.1	0.001212	± 2.5	PASS
		VH	TN	2.34	0.001351	± 2.5	PASS
	HCH	VL	TN	3.09	0.001761	± 2.5	PASS
		VN	TN	-0.1	-0.000057	± 2.5	PASS
		VH	TN	4.53	0.002582	± 2.5	PASS
16QAM	LCH	VL	TN	1.93	0.001128	± 2.5	PASS
		VN	TN	0.58	0.000339	± 2.5	PASS
		VH	TN	-1.42	-0.000830	± 2.5	PASS
	MCH	VL	TN	1.49	0.000860	± 2.5	PASS
		VN	TN	3.79	0.002188	± 2.5	PASS
		VH	TN	1.05	0.000606	± 2.5	PASS
	HCH	VL	TN	2.4	0.001368	± 2.5	PASS
		VN	TN	-1.66	-0.000946	± 2.5	PASS
		VH	TN	2.74	0.001562	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.94	0.000549	± 2.5	PASS
		VN	-20	0.4	0.000234	± 2.5	PASS
		VN	-10	-1.88	-0.001099	± 2.5	PASS
		VN	0	4.93	0.002882	± 2.5	PASS
		VN	10	2.83	0.001654	± 2.5	PASS
		VN	20	-1.86	-0.001087	± 2.5	PASS
		VN	30	-0.76	-0.000444	± 2.5	PASS
		VN	40	3.47	0.002028	± 2.5	PASS
		VN	50	1.43	0.000836	± 2.5	PASS
	MCH	VN	-30	-0.28	-0.000162	± 2.5	PASS
		VN	-20	4.4	0.002540	± 2.5	PASS

	HCH	VN	-10	-1.84	-0.001062	$\pm 2.5$	PASS
		VN	0	-1.64	-0.000947	$\pm 2.5$	PASS
		VN	10	0.39	0.000225	$\pm 2.5$	PASS
		VN	20	-0.49	-0.000283	$\pm 2.5$	PASS
		VN	30	-1.24	-0.000716	$\pm 2.5$	PASS
		VN	40	-0.28	-0.000162	$\pm 2.5$	PASS
		VN	50	-1.97	-0.001137	$\pm 2.5$	PASS
		VN	-30	-1.03	-0.000587	$\pm 2.5$	PASS
		VN	-20	-0.99	-0.000564	$\pm 2.5$	PASS
		VN	-10	-1.42	-0.000809	$\pm 2.5$	PASS
16QAM	LCH	VN	0	1.46	0.000832	$\pm 2.5$	PASS
		VN	10	0.9	0.000513	$\pm 2.5$	PASS
		VN	20	0.85	0.000485	$\pm 2.5$	PASS
		VN	30	1.96	0.001117	$\pm 2.5$	PASS
		VN	40	-0.54	-0.000308	$\pm 2.5$	PASS
		VN	50	4.62	0.002634	$\pm 2.5$	PASS
		VN	-30	-0.81	-0.000473	$\pm 2.5$	PASS
		VN	-20	-1.18	-0.000690	$\pm 2.5$	PASS
		VN	-10	0.06	0.000035	$\pm 2.5$	PASS
	MCH	VN	0	2.58	0.001508	$\pm 2.5$	PASS
		VN	10	-1.35	-0.000789	$\pm 2.5$	PASS
		VN	20	0.27	0.000158	$\pm 2.5$	PASS
		VN	30	-0.2	-0.000117	$\pm 2.5$	PASS
		VN	40	-0.42	-0.000246	$\pm 2.5$	PASS
		VN	50	0.47	0.000275	$\pm 2.5$	PASS
		VN	-30	-0.49	-0.000279	$\pm 2.5$	PASS
		VN	-20	4	0.002280	$\pm 2.5$	PASS
		VN	-10	-1.57	-0.000895	$\pm 2.5$	PASS
		VN	0	-1.25	-0.000713	$\pm 2.5$	PASS
	HCH	VN	10	2.51	0.001431	$\pm 2.5$	PASS
		VN	20	1.73	0.000986	$\pm 2.5$	PASS
		VN	30	0.08	0.000046	$\pm 2.5$	PASS
		VN	40	0.6	0.000342	$\pm 2.5$	PASS
		VN	50	0.77	0.000439	$\pm 2.5$	PASS
		VN	-30	3.98	0.002269	$\pm 2.5$	PASS
		VN	-20	-1	-0.000570	$\pm 2.5$	PASS

		VN	40	-0.83	-0.000473	$\pm 2.5$	PASS
		VN	50	2.05	0.001169	$\pm 2.5$	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	0.95	0.000555	$\pm 2.5$	PASS
		VN	TN	2.5	0.001461	$\pm 2.5$	PASS
		VH	TN	-1.94	-0.001134	$\pm 2.5$	PASS
	MCH	VL	TN	3.88	0.002240	$\pm 2.5$	PASS
		VN	TN	2.68	0.001547	$\pm 2.5$	PASS
		VH	TN	3.53	0.002038	$\pm 2.5$	PASS
	HCH	VL	TN	2.51	0.001431	$\pm 2.5$	PASS
		VN	TN	0.39	0.000222	$\pm 2.5$	PASS
		VH	TN	2.61	0.001488	$\pm 2.5$	PASS
16QAM	LCH	VL	TN	-0.81	-0.000473	$\pm 2.5$	PASS
		VN	TN	4.35	0.002542	$\pm 2.5$	PASS
		VH	TN	1.36	0.000795	$\pm 2.5$	PASS
	MCH	VL	TN	-0.64	-0.000369	$\pm 2.5$	PASS
		VN	TN	2.47	0.001426	$\pm 2.5$	PASS
		VH	TN	-0.65	-0.000375	$\pm 2.5$	PASS
	HCH	VL	TN	-0.11	-0.000063	$\pm 2.5$	PASS
		VN	TN	-0.91	-0.000519	$\pm 2.5$	PASS
		VH	TN	-0.79	-0.000451	$\pm 2.5$	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.48	0.000865	$\pm 2.5$	PASS
		VN	-20	-1.45	-0.000847	$\pm 2.5$	PASS
		VN	-10	1.71	0.000999	$\pm 2.5$	PASS
		VN	0	-0.46	-0.000269	$\pm 2.5$	PASS
		VN	10	3.17	0.001852	$\pm 2.5$	PASS
		VN	20	-1.34	-0.000783	$\pm 2.5$	PASS
		VN	30	2.04	0.001192	$\pm 2.5$	PASS
		VN	40	-1.45	-0.000847	$\pm 2.5$	PASS
		VN	50	-1.09	-0.000637	$\pm 2.5$	PASS
	MCH	VN	-30	0.48	0.000277	$\pm 2.5$	PASS
		VN	-20	2.23	0.001287	$\pm 2.5$	PASS
		VN	-10	2.18	0.001258	$\pm 2.5$	PASS

		VN	0	-1.38	-0.000797	$\pm 2.5$	PASS
		VN	10	-1.37	-0.000791	$\pm 2.5$	PASS
		VN	20	0.54	0.000312	$\pm 2.5$	PASS
		VN	30	2.87	0.001657	$\pm 2.5$	PASS
		VN	40	4.33	0.002499	$\pm 2.5$	PASS
		VN	50	2.19	0.001264	$\pm 2.5$	PASS
		VN	-30	4.85	0.002766	$\pm 2.5$	PASS
		VN	-20	3.73	0.002127	$\pm 2.5$	PASS
		VN	-10	3.43	0.001956	$\pm 2.5$	PASS
		VN	0	4.61	0.002629	$\pm 2.5$	PASS
	HCH	VN	10	-1.51	-0.000861	$\pm 2.5$	PASS
		VN	20	4.46	0.002543	$\pm 2.5$	PASS
		VN	30	4.06	0.002315	$\pm 2.5$	PASS
		VN	40	2.41	0.001374	$\pm 2.5$	PASS
		VN	50	2.91	0.001660	$\pm 2.5$	PASS
		VN	-30	2.07	0.001195	$\pm 2.5$	PASS
		VN	-20	-1.51	-0.000872	$\pm 2.5$	PASS
		VN	-10	0.4	0.000231	$\pm 2.5$	PASS
		VN	0	2.72	0.001570	$\pm 2.5$	PASS
		VN	10	-1.87	-0.001079	$\pm 2.5$	PASS
	LCH	VN	20	-0.53	-0.000306	$\pm 2.5$	PASS
		VN	30	-0.14	-0.000081	$\pm 2.5$	PASS
		VN	40	0.13	0.000075	$\pm 2.5$	PASS
		VN	50	0.79	0.000456	$\pm 2.5$	PASS
		VN	-30	1.11	0.000633	$\pm 2.5$	PASS
		VN	-20	4.13	0.002355	$\pm 2.5$	PASS
		VN	-10	2.9	0.001654	$\pm 2.5$	PASS
		VN	0	-1.06	-0.000605	$\pm 2.5$	PASS
		VN	10	-0.05	-0.000029	$\pm 2.5$	PASS
		VN	20	1.62	0.000924	$\pm 2.5$	PASS
	MCH	VN	30	-0.16	-0.000091	$\pm 2.5$	PASS
		VN	40	-0.13	-0.000074	$\pm 2.5$	PASS
		VN	50	-0.86	-0.000490	$\pm 2.5$	PASS
		VN	-30	3.24	0.001848	$\pm 2.5$	PASS
		VN	-20	-1.46	-0.000833	$\pm 2.5$	PASS
		VN	-10	2.92	0.001665	$\pm 2.5$	PASS
		VN	0	-0.21	-0.000120	$\pm 2.5$	PASS
		VN	10	2.71	0.001545	$\pm 2.5$	PASS
		VN	20	-1.92	-0.001095	$\pm 2.5$	PASS
		VN	30	4.35	0.002481	$\pm 2.5$	PASS
	HCH	VN	40	4.06	0.002315	$\pm 2.5$	PASS

		VN	50	0.75	0.000428	$\pm 2.5$	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	-1.61	-0.000940	$\pm 2.5$	PASS
		VN	TN	-1.95	-0.001139	$\pm 2.5$	PASS
		VH	TN	4.87	0.002844	$\pm 2.5$	PASS
	MCH	VL	TN	4.16	0.002401	$\pm 2.5$	PASS
		VN	TN	3.55	0.002049	$\pm 2.5$	PASS
		VH	TN	3.35	0.001934	$\pm 2.5$	PASS
	HCH	VL	TN	-1.2	-0.000685	$\pm 2.5$	PASS
		VN	TN	1.78	0.001016	$\pm 2.5$	PASS
		VH	TN	-1.97	-0.001124	$\pm 2.5$	PASS
16QAM	LCH	VL	TN	3.01	0.001758	$\pm 2.5$	PASS
		VN	TN	-1.97	-0.001150	$\pm 2.5$	PASS
		VH	TN	4.12	0.002406	$\pm 2.5$	PASS
	MCH	VL	TN	2.81	0.001622	$\pm 2.5$	PASS
		VN	TN	1.34	0.000773	$\pm 2.5$	PASS
		VH	TN	4.66	0.002690	$\pm 2.5$	PASS
	HCH	VL	TN	0.5	0.000285	$\pm 2.5$	PASS
		VN	TN	-1.11	-0.000633	$\pm 2.5$	PASS
		VH	TN	4.2	0.002397	$\pm 2.5$	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.68	0.002149	$\pm 2.5$	PASS
		VN	-20	-0.54	-0.000315	$\pm 2.5$	PASS
		VN	-10	0.51	0.000298	$\pm 2.5$	PASS
		VN	0	-0.86	-0.000502	$\pm 2.5$	PASS
		VN	10	2.68	0.001565	$\pm 2.5$	PASS
		VN	20	3.75	0.002190	$\pm 2.5$	PASS
		VN	30	1.91	0.001115	$\pm 2.5$	PASS
		VN	40	2.09	0.001220	$\pm 2.5$	PASS
		VN	50	-1.82	-0.001063	$\pm 2.5$	PASS
	MCH	VN	-30	-1.35	-0.000779	$\pm 2.5$	PASS
		VN	-20	4.5	0.002597	$\pm 2.5$	PASS
		VN	-10	0.26	0.000150	$\pm 2.5$	PASS
		VN	0	4.38	0.002528	$\pm 2.5$	PASS

		VN	10	3.98	0.002297	$\pm 2.5$	PASS
		VN	20	1.79	0.001033	$\pm 2.5$	PASS
		VN	30	0.44	0.000254	$\pm 2.5$	PASS
		VN	40	4.94	0.002851	$\pm 2.5$	PASS
		VN	50	4.79	0.002765	$\pm 2.5$	PASS
		VN	-30	3.24	0.001849	$\pm 2.5$	PASS
		VN	-20	2.46	0.001290	$\pm 2.5$	PASS
		VN	-10	0.64	0.000336	$\pm 2.5$	PASS
		VN	0	-0.77	-0.000404	$\pm 2.5$	PASS
		VN	10	-1.37	-0.000718	$\pm 2.5$	PASS
	HCH	VN	20	3.3	0.001730	$\pm 2.5$	PASS
		VN	30	0.26	0.000136	$\pm 2.5$	PASS
		VN	40	-1.63	-0.000855	$\pm 2.5$	PASS
		VN	50	2.46	0.001290	$\pm 2.5$	PASS
		VN	-30	4.14	0.002390	$\pm 2.5$	PASS
		VN	-20	0.72	0.000416	$\pm 2.5$	PASS
		VN	-10	2.48	0.001431	$\pm 2.5$	PASS
		VN	0	3.32	0.001916	$\pm 2.5$	PASS
		VN	10	-1.12	-0.000646	$\pm 2.5$	PASS
		VN	20	-0.95	-0.000548	$\pm 2.5$	PASS
	LCH	VN	30	-1.38	-0.000797	$\pm 2.5$	PASS
		VN	40	1.93	0.001114	$\pm 2.5$	PASS
		VN	50	3.55	0.002049	$\pm 2.5$	PASS
		VN	-30	1.14	0.000650	$\pm 2.5$	PASS
		VN	-20	0.36	0.000205	$\pm 2.5$	PASS
		VN	-10	-1.36	-0.000776	$\pm 2.5$	PASS
		VN	0	3.28	0.001872	$\pm 2.5$	PASS
		VN	10	3.5	0.001997	$\pm 2.5$	PASS
		VN	20	4.57	0.002608	$\pm 2.5$	PASS
		VN	30	-0.85	-0.000485	$\pm 2.5$	PASS
	MCH	VN	40	1.23	0.000702	$\pm 2.5$	PASS
		VN	50	-0.49	-0.000280	$\pm 2.5$	PASS
		VN	-30	2.42	0.001269	$\pm 2.5$	PASS
		VN	-20	2.55	0.001337	$\pm 2.5$	PASS
		VN	-10	-0.6	-0.000315	$\pm 2.5$	PASS
		VN	0	2.67	0.001400	$\pm 2.5$	PASS
		VN	10	4.95	0.002595	$\pm 2.5$	PASS
		VN	20	2.25	0.001180	$\pm 2.5$	PASS
		VN	30	-0.73	-0.000383	$\pm 2.5$	PASS
		VN	40	0.46	0.000241	$\pm 2.5$	PASS
	HCH	VN	50	4.4	0.002307	$\pm 2.5$	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	2.07	0.001207	± 2.5	PASS
		VN	TN	0.26	0.000152	± 2.5	PASS
		VH	TN	2.76	0.001609	± 2.5	PASS
	MCH	VL	TN	4.86	0.002805	± 2.5	PASS
		VN	TN	4.48	0.002586	± 2.5	PASS
		VH	TN	-0.39	-0.000225	± 2.5	PASS
	HCH	VL	TN	-1.8	-0.001029	± 2.5	PASS
		VN	TN	2.34	0.001337	± 2.5	PASS
		VH	TN	-0.73	-0.000417	± 2.5	PASS
16QAM	LCH	VL	TN	3.82	0.002227	± 2.5	PASS
		VN	TN	4.5	0.002624	± 2.5	PASS
		VH	TN	2.78	0.001621	± 2.5	PASS
	MCH	VL	TN	4.26	0.002459	± 2.5	PASS
		VN	TN	-0.17	-0.000098	± 2.5	PASS
		VH	TN	-0.46	-0.000266	± 2.5	PASS
	HCH	VL	TN	-1.9	-0.001086	± 2.5	PASS
		VN	TN	4.32	0.002469	± 2.5	PASS
		VH	TN	1.91	0.001091	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	-0.75	-0.000437	± 2.5	PASS
		VN	-20	0.98	0.000571	± 2.5	PASS
		VN	-10	0.61	0.000356	± 2.5	PASS
		VN	0	1.5	0.000875	± 2.5	PASS
		VN	10	-0.19	-0.000111	± 2.5	PASS
		VN	20	1.58	0.000921	± 2.5	PASS
		VN	30	3.93	0.002292	± 2.5	PASS
		VN	40	-1.33	-0.000776	± 2.5	PASS
		VN	50	3.72	0.002169	± 2.5	PASS
	MCH	VN	-30	1.83	0.001056	± 2.5	PASS
		VN	-20	3.56	0.002055	± 2.5	PASS
		VN	-10	0.89	0.000514	± 2.5	PASS
		VN	0	-1.62	-0.000935	± 2.5	PASS
		VN	10	4.6	0.002655	± 2.5	PASS
		VN	20	0.68	0.000392	± 2.5	PASS

	HCH	VN	30	3.46	0.001997	$\pm 2.5$	PASS
		VN	40	3.14	0.001812	$\pm 2.5$	PASS
		VN	50	3.23	0.001864	$\pm 2.5$	PASS
		VN	-30	3.22	0.001840	$\pm 2.5$	PASS
		VN	-20	-0.42	-0.000240	$\pm 2.5$	PASS
		VN	-10	3.69	0.002109	$\pm 2.5$	PASS
		VN	0	0.28	0.000160	$\pm 2.5$	PASS
		VN	10	3.41	0.001949	$\pm 2.5$	PASS
		VN	20	1.95	0.001114	$\pm 2.5$	PASS
		VN	30	-1.3	-0.000743	$\pm 2.5$	PASS
	LCH	VN	40	-1.73	-0.000989	$\pm 2.5$	PASS
		VN	50	-0.69	-0.000394	$\pm 2.5$	PASS
		VN	-30	3.72	0.002147	$\pm 2.5$	PASS
		VN	-20	-1.3	-0.000750	$\pm 2.5$	PASS
		VN	-10	-0.55	-0.000317	$\pm 2.5$	PASS
		VN	0	-1.67	-0.000964	$\pm 2.5$	PASS
		VN	10	0.36	0.000208	$\pm 2.5$	PASS
		VN	20	4.57	0.002638	$\pm 2.5$	PASS
		VN	30	1.85	0.001068	$\pm 2.5$	PASS
	MCH	VN	40	2.62	0.001512	$\pm 2.5$	PASS
		VN	50	2.39	0.001380	$\pm 2.5$	PASS
		VN	-30	2.49	0.001423	$\pm 2.5$	PASS
		VN	-20	-0.66	-0.000377	$\pm 2.5$	PASS
		VN	-10	-0.35	-0.000200	$\pm 2.5$	PASS
		VN	0	-0.54	-0.000309	$\pm 2.5$	PASS
		VN	10	3.47	0.001983	$\pm 2.5$	PASS
		VN	20	2.56	0.001463	$\pm 2.5$	PASS
		VN	30	-1.12	-0.000640	$\pm 2.5$	PASS
	HCH	VN	40	3.15	0.001800	$\pm 2.5$	PASS
		VN	50	4.08	0.002331	$\pm 2.5$	PASS
		VN	-30	4.74	0.002709	$\pm 2.5$	PASS
		VN	-20	4.5	0.002571	$\pm 2.5$	PASS
		VN	-10	-1.13	-0.000646	$\pm 2.5$	PASS
		VN	0	4.6	0.002629	$\pm 2.5$	PASS
		VN	10	3.58	0.002046	$\pm 2.5$	PASS
		VN	20	0.93	0.000531	$\pm 2.5$	PASS
		VN	30	-0.48	-0.000274	$\pm 2.5$	PASS
	HCH	VN	40	3.55	0.002029	$\pm 2.5$	PASS
		VN	50	1.14	0.000651	$\pm 2.5$	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	0.3	0.000175	± 2.5	PASS
		VN	TN	2.96	0.001726	± 2.5	PASS
		VH	TN	-0.7	-0.000408	± 2.5	PASS
	MCH	VL	TN	0.56	0.000323	± 2.5	PASS
		VN	TN	2.14	0.001235	± 2.5	PASS
		VH	TN	-0.21	-0.000121	± 2.5	PASS
	HCH	VL	TN	-0.15	-0.000086	± 2.5	PASS
		VN	TN	0.59	0.000337	± 2.5	PASS
		VH	TN	0.2	0.000114	± 2.5	PASS
16QAM	LCH	VL	TN	0.78	0.000455	± 2.5	PASS
		VN	TN	-1	-0.000583	± 2.5	PASS
		VH	TN	3.44	0.002006	± 2.5	PASS
	MCH	VL	TN	-1.69	-0.000975	± 2.5	PASS
		VN	TN	3.07	0.001772	± 2.5	PASS
		VH	TN	0.83	0.000479	± 2.5	PASS
	HCH	VL	TN	3.63	0.002074	± 2.5	PASS
		VN	TN	3.62	0.002069	± 2.5	PASS
		VH	TN	2.21	0.001263	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.48	0.000862	± 2.5	PASS
		VN	-20	4.42	0.002577	± 2.5	PASS
		VN	-10	-1.83	-0.001067	± 2.5	PASS
		VN	0	-1.53	-0.000892	± 2.5	PASS
		VN	10	-1.23	-0.000717	± 2.5	PASS
		VN	20	3.3	0.001924	± 2.5	PASS
		VN	30	4.24	0.002472	± 2.5	PASS
		VN	40	1.63	0.000950	± 2.5	PASS
		VN	50	2.5	0.001458	± 2.5	PASS
	MCH	VN	-30	1.35	0.000779	± 2.5	PASS
		VN	-20	-0.09	-0.000052	± 2.5	PASS
		VN	-10	0.23	0.000133	± 2.5	PASS
		VN	0	1.99	0.001149	± 2.5	PASS
		VN	10	4.01	0.002315	± 2.5	PASS
		VN	20	-0.8	-0.000462	± 2.5	PASS

		VN	30	4.83	0.002788	$\pm 2.5$	PASS
		VN	40	-1.77	-0.001022	$\pm 2.5$	PASS
		VN	50	-1.74	-0.001004	$\pm 2.5$	PASS
	HCH	VN	-30	2.65	0.001514	$\pm 2.5$	PASS
		VN	-20	-0.43	-0.000246	$\pm 2.5$	PASS
		VN	-10	4.48	0.002560	$\pm 2.5$	PASS
		VN	0	0.69	0.000394	$\pm 2.5$	PASS
		VN	10	1.57	0.000897	$\pm 2.5$	PASS
		VN	20	-1.84	-0.001051	$\pm 2.5$	PASS
		VN	30	2.36	0.001349	$\pm 2.5$	PASS
16QAM	LCH	VN	40	2.5	0.001429	$\pm 2.5$	PASS
		VN	50	4.7	0.002686	$\pm 2.5$	PASS
	MCH	VN	-30	2.58	0.001489	$\pm 2.5$	PASS
		VN	-20	2.11	0.001218	$\pm 2.5$	PASS
		VN	-10	-1.97	-0.001137	$\pm 2.5$	PASS
		VN	0	3.19	0.001841	$\pm 2.5$	PASS
		VN	10	-1.72	-0.000993	$\pm 2.5$	PASS
		VN	20	-1.35	-0.000779	$\pm 2.5$	PASS
		VN	30	-0.38	-0.000219	$\pm 2.5$	PASS
		VN	40	0.75	0.000433	$\pm 2.5$	PASS
		VN	50	4.46	0.002574	$\pm 2.5$	PASS
	HCH	VN	-30	2.74	0.001566	$\pm 2.5$	PASS
		VN	-20	4.31	0.002463	$\pm 2.5$	PASS
		VN	-10	-0.6	-0.000343	$\pm 2.5$	PASS
		VN	0	-1.85	-0.001057	$\pm 2.5$	PASS
		VN	10	1.26	0.000720	$\pm 2.5$	PASS
		VN	20	2.04	0.001166	$\pm 2.5$	PASS
		VN	30	2.17	0.001240	$\pm 2.5$	PASS
		VN	40	1.25	0.000714	$\pm 2.5$	PASS
		VN	50	0.88	0.000503	$\pm 2.5$	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	1.05	0.000610	± 2.5	PASS
		VN	TN	0.56	0.000327	± 2.5	PASS
		VH	TN	3.95	0.002303	± 2.5	PASS
	MCH	VL	TN	-0.91	-0.000525	± 2.5	PASS
		VN	TN	2.81	0.001622	± 2.5	PASS
		VH	TN	-0.8	-0.000462	± 2.5	PASS
	HCH	VL	TN	2.7	0.001543	± 2.5	PASS
		VN	TN	0.02	0.000011	± 2.5	PASS
		VH	TN	3.82	0.002183	± 2.5	PASS
16QAM	LCH	VL	TN	2.4	0.001399	± 2.5	PASS
		VN	TN	0.53	0.000309	± 2.5	PASS
		VH	TN	-0.76	-0.000443	± 2.5	PASS
	MCH	VL	TN	1.89	0.001091	± 2.5	PASS
		VN	TN	3.31	0.001911	± 2.5	PASS
		VH	TN	3.56	0.002055	± 2.5	PASS
	HCH	VL	TN	2.48	0.001417	± 2.5	PASS
		VN	TN	0.82	0.000469	± 2.5	PASS
		VH	TN	3.04	0.001737	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.17	0.000099	± 2.5	PASS
		VN	-20	-1.87	-0.001087	± 2.5	PASS
		VN	-10	-1.59	-0.000924	± 2.5	PASS
		VN	0	2.07	0.001203	± 2.5	PASS
		VN	10	4.29	0.002494	± 2.5	PASS
		VN	20	2.39	0.001390	± 2.5	PASS
		VN	30	3.74	0.002174	± 2.5	PASS
		VN	40	2.07	0.001203	± 2.5	PASS
		VN	50	-1.3	-0.000756	± 2.5	PASS
	MCH	VN	-30	-0.29	-0.000167	± 2.5	PASS
		VN	-20	3.2	0.001847	± 2.5	PASS
		VN	-10	3.44	0.001986	± 2.5	PASS
		VN	0	0.75	0.000433	± 2.5	PASS
		VN	10	-1.02	-0.000589	± 2.5	PASS
		VN	20	4.88	0.002817	± 2.5	PASS

		VN	30	-0.71	-0.000410	$\pm 2.5$	PASS
		VN	40	1.66	0.000958	$\pm 2.5$	PASS
		VN	50	0.51	0.000294	$\pm 2.5$	PASS
	HCH	VN	-30	3.46	0.001983	$\pm 2.5$	PASS
		VN	-20	-0.76	-0.000436	$\pm 2.5$	PASS
		VN	-10	4.39	0.002516	$\pm 2.5$	PASS
		VN	0	-0.04	-0.000023	$\pm 2.5$	PASS
		VN	10	1.78	0.001020	$\pm 2.5$	PASS
		VN	20	-1.8	-0.001032	$\pm 2.5$	PASS
		VN	30	3.85	0.002206	$\pm 2.5$	PASS
16QAM	LCH	VN	40	1.45	0.000831	$\pm 2.5$	PASS
		VN	50	2.47	0.001415	$\pm 2.5$	PASS
	MCH	VN	-30	-0.33	-0.000190	$\pm 2.5$	PASS
		VN	-20	-0.8	-0.000462	$\pm 2.5$	PASS
		VN	-10	-0.34	-0.000196	$\pm 2.5$	PASS
		VN	0	2.38	0.001374	$\pm 2.5$	PASS
		VN	10	3.98	0.002297	$\pm 2.5$	PASS
		VN	20	4.84	0.002794	$\pm 2.5$	PASS
		VN	30	0.99	0.000571	$\pm 2.5$	PASS
		VN	40	4.95	0.002857	$\pm 2.5$	PASS
		VN	50	4.01	0.002315	$\pm 2.5$	PASS
	HCH	VN	-30	0.43	0.000246	$\pm 2.5$	PASS
		VN	-20	-0.81	-0.000464	$\pm 2.5$	PASS
		VN	-10	1.17	0.000670	$\pm 2.5$	PASS
		VN	0	0.93	0.000533	$\pm 2.5$	PASS
		VN	10	2.57	0.001473	$\pm 2.5$	PASS
		VN	20	3.81	0.002183	$\pm 2.5$	PASS
		VN	30	0.1	0.000057	$\pm 2.5$	PASS
		VN	40	-0.56	-0.000321	$\pm 2.5$	PASS
		VN	50	2.74	0.001570	$\pm 2.5$	PASS