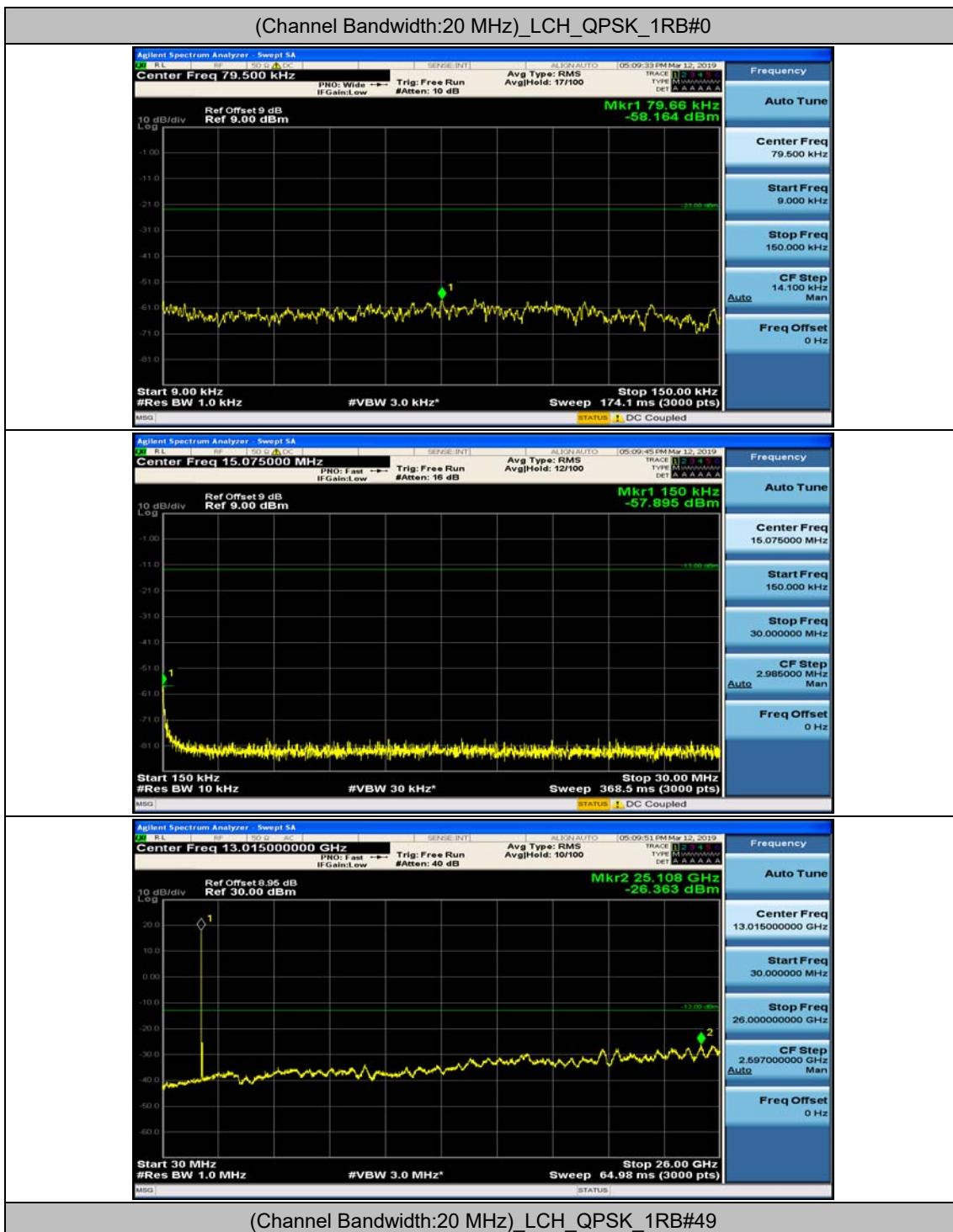
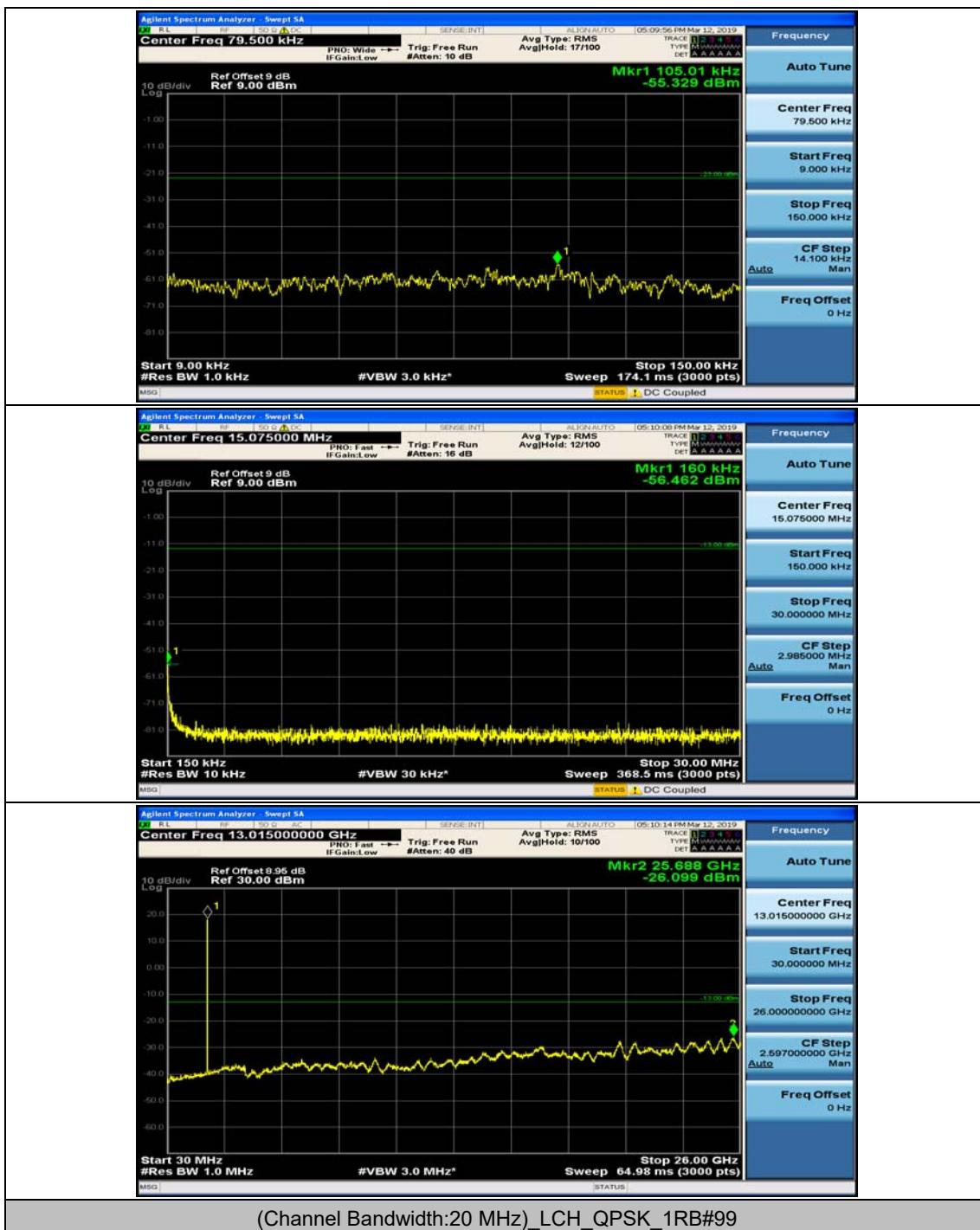
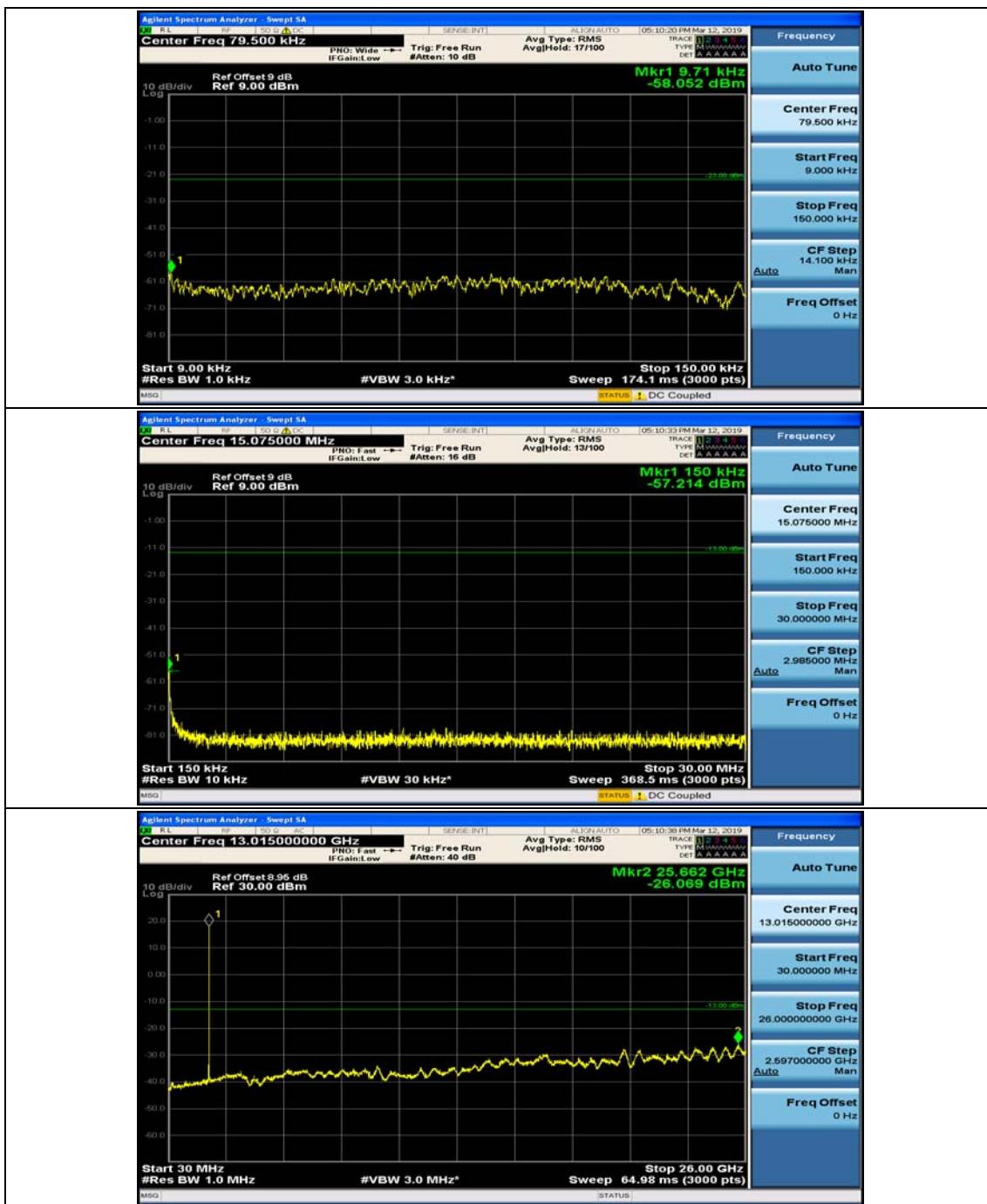
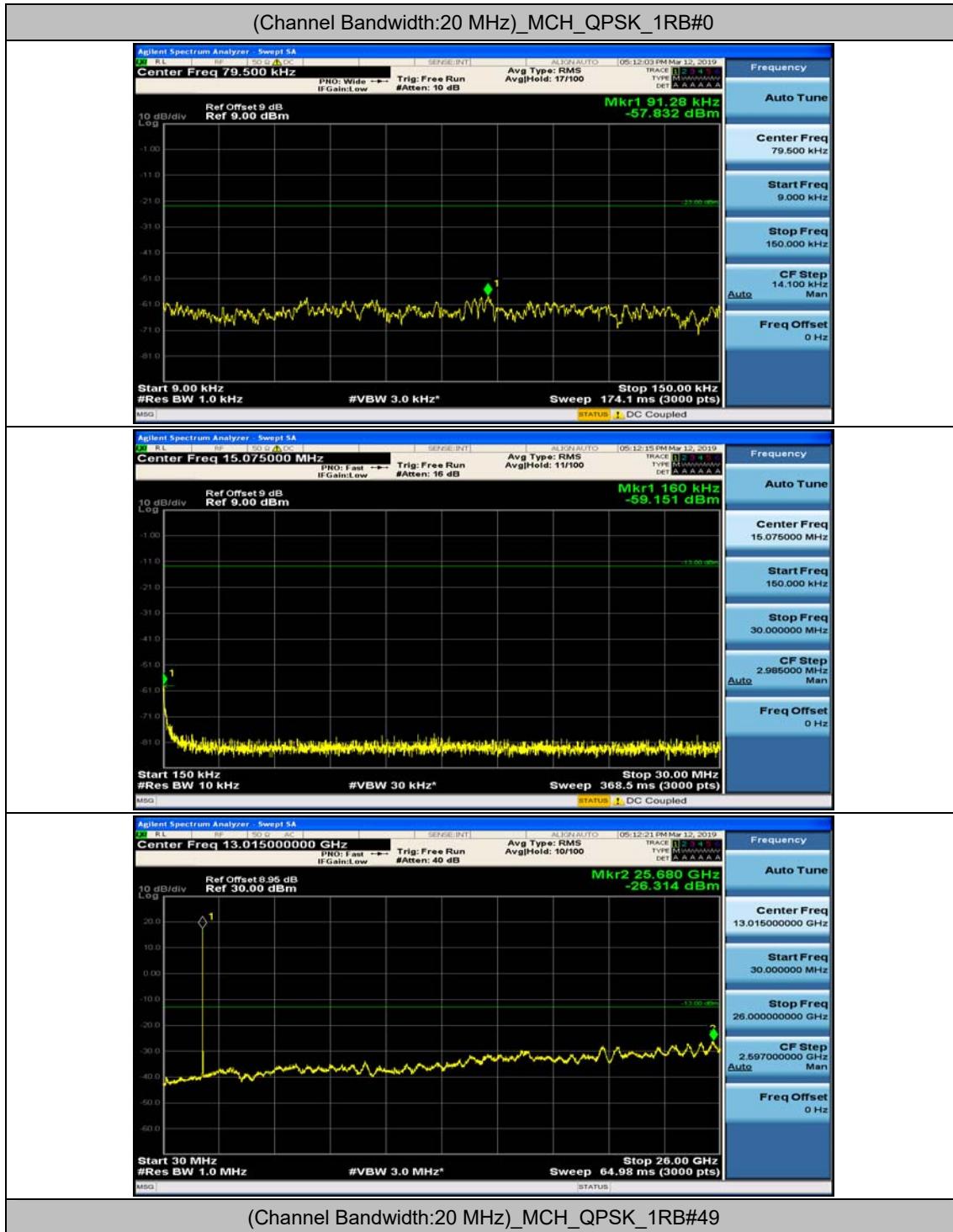


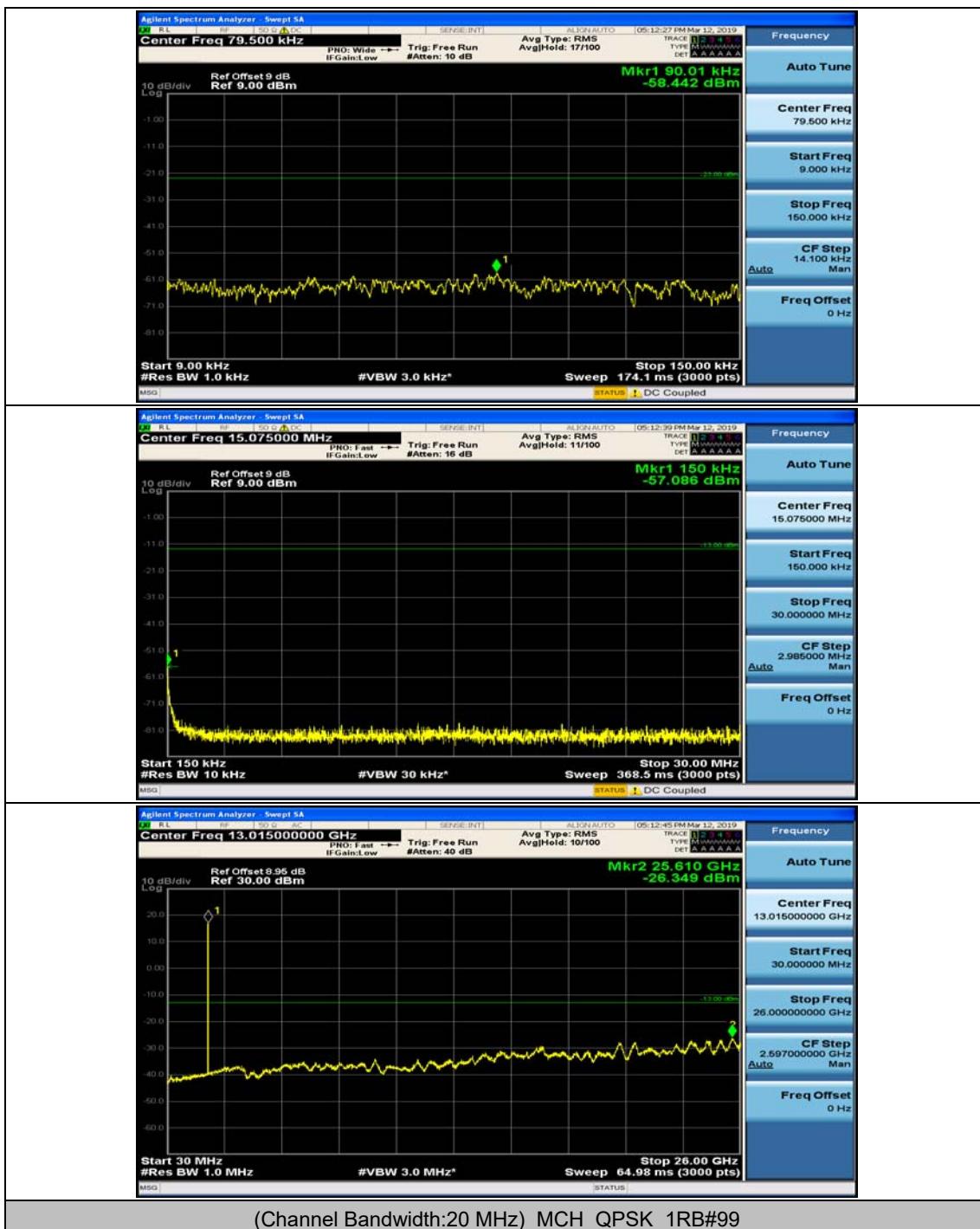
## Channel Bandwidth: 20 MHz

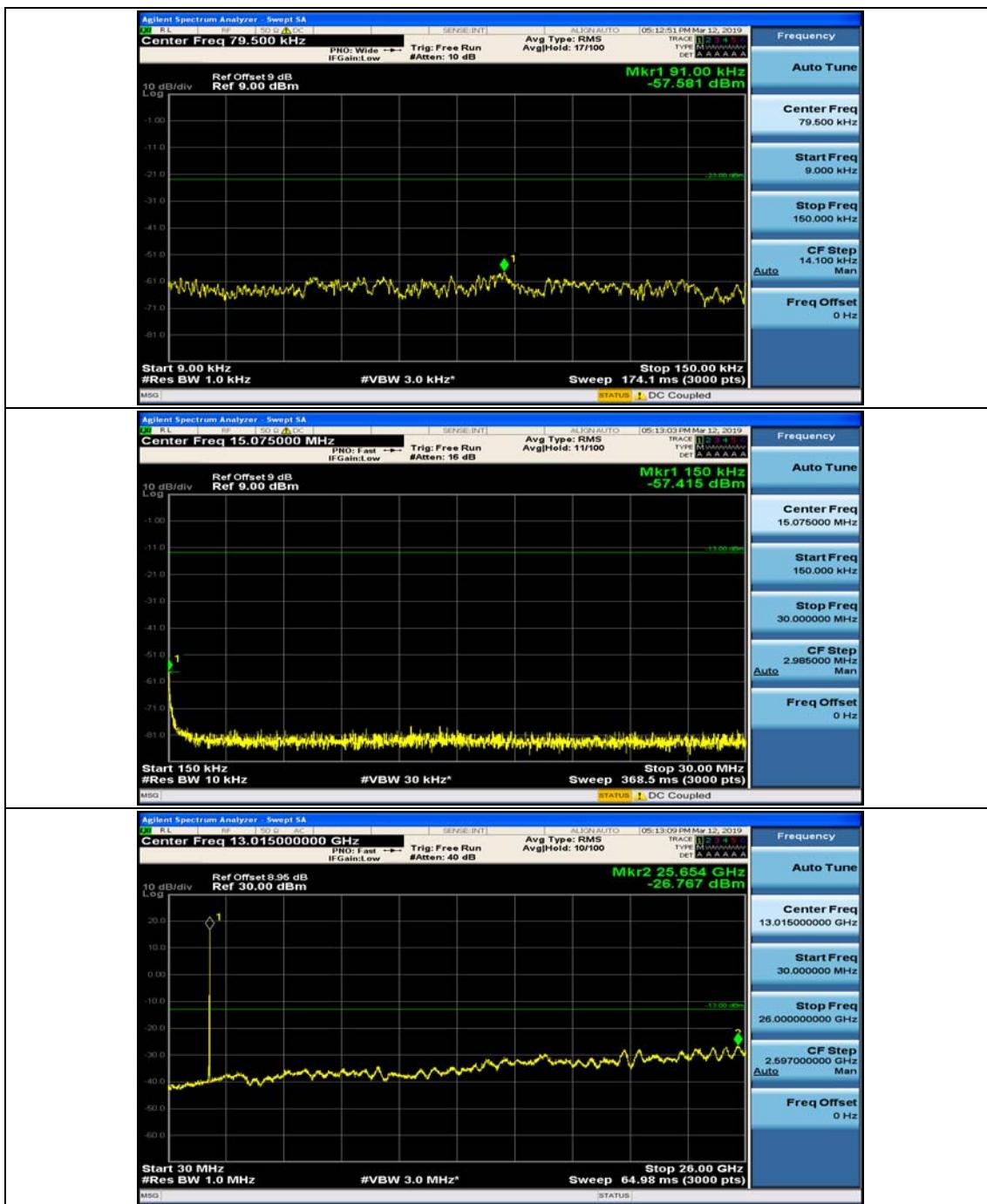


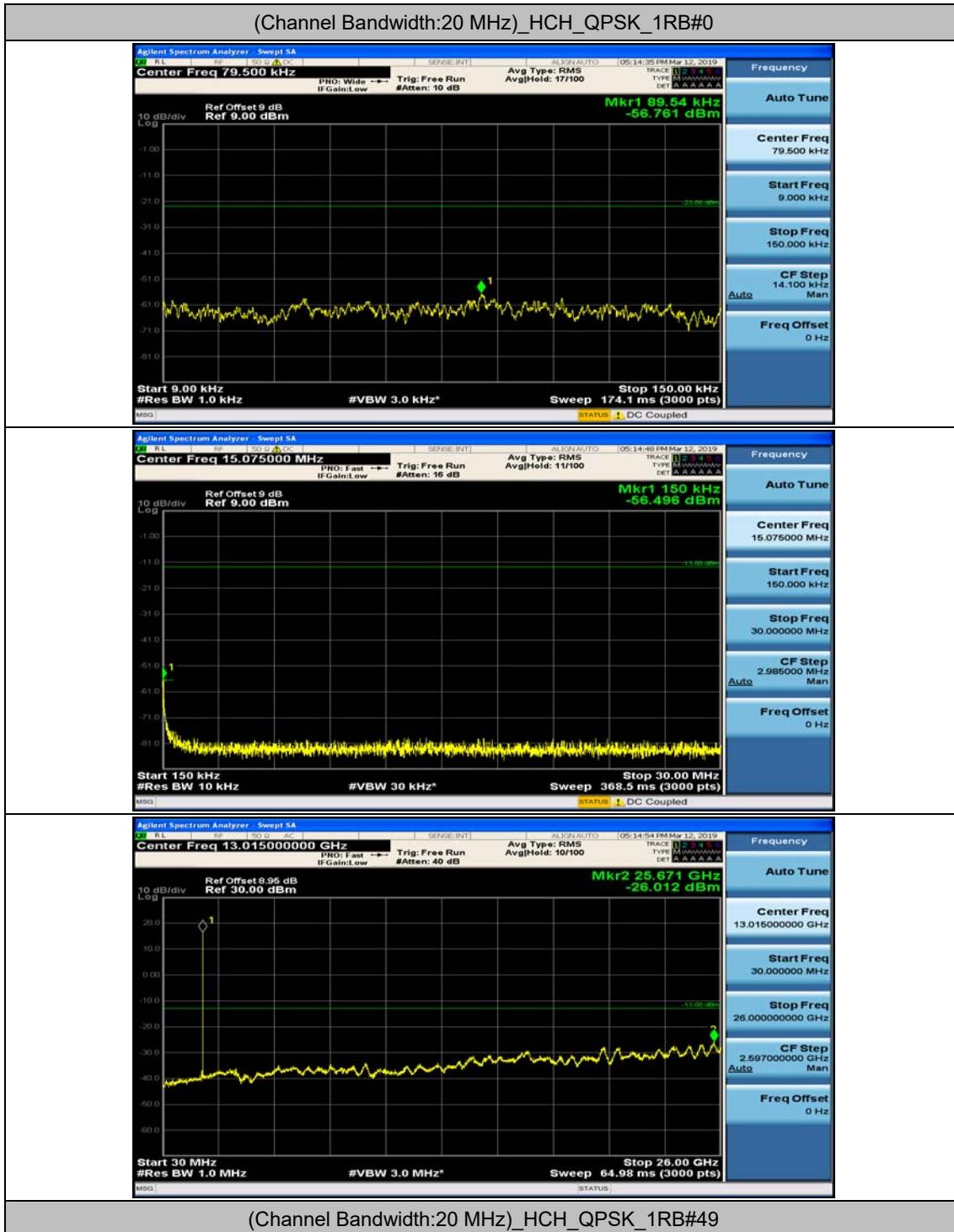


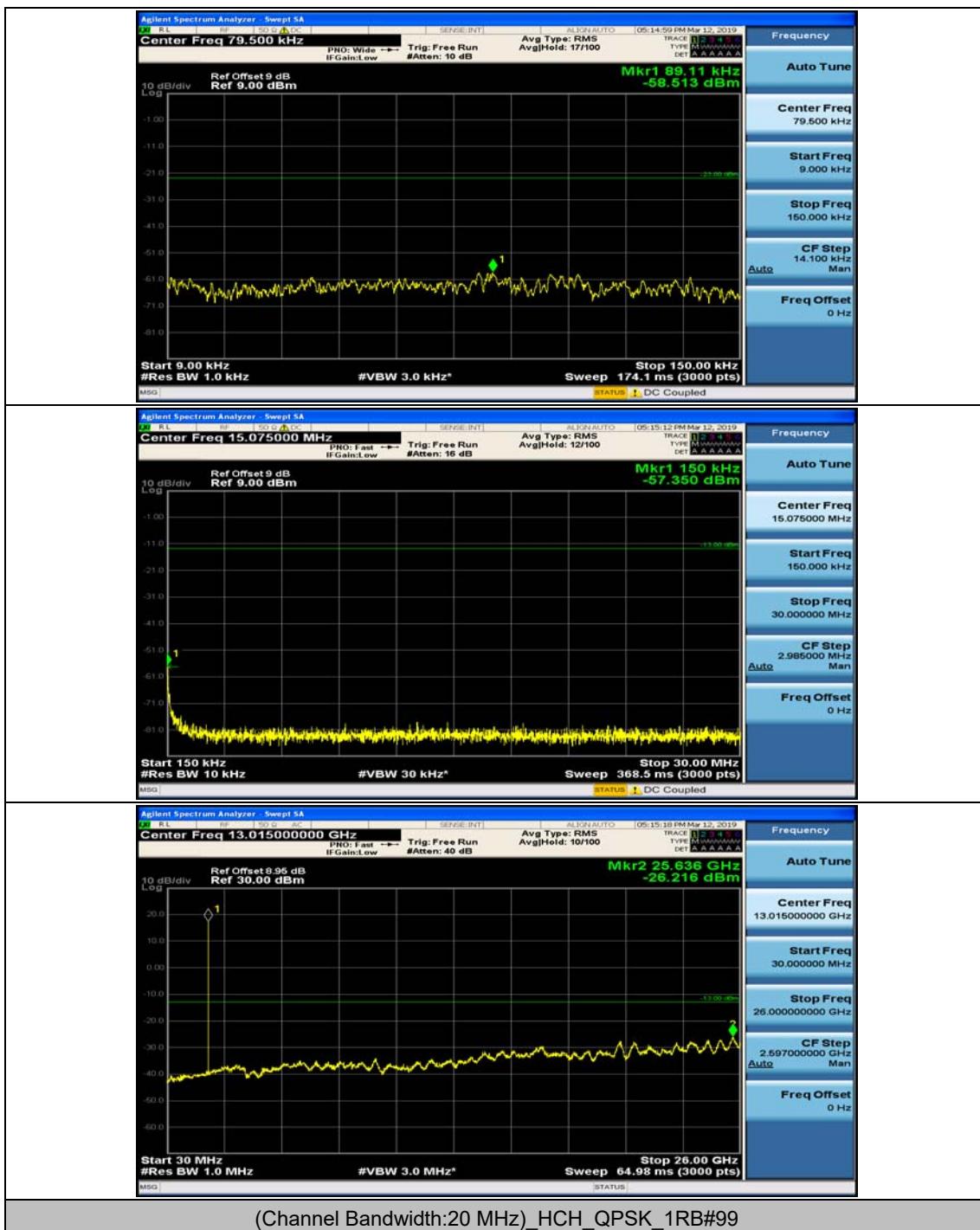


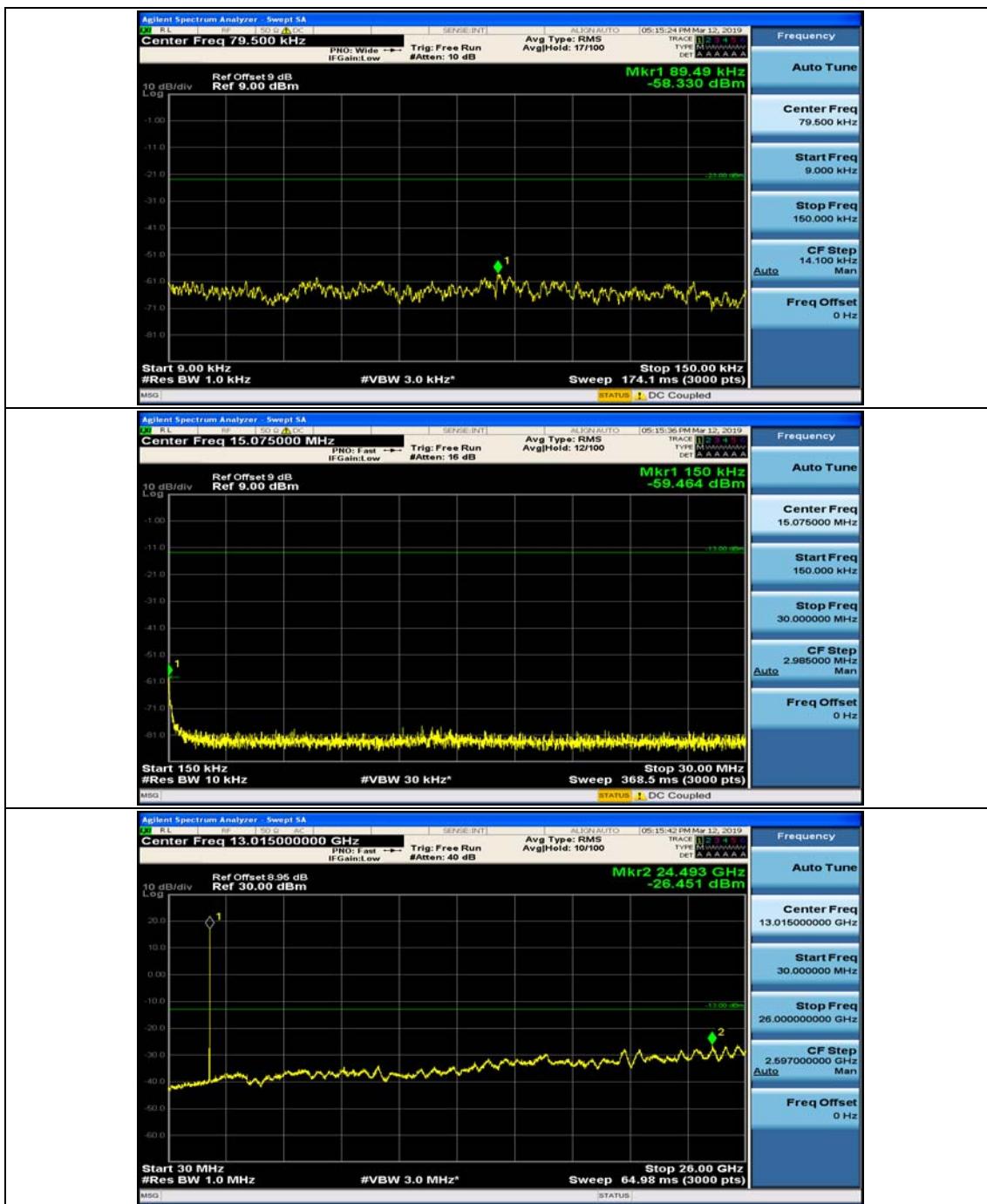


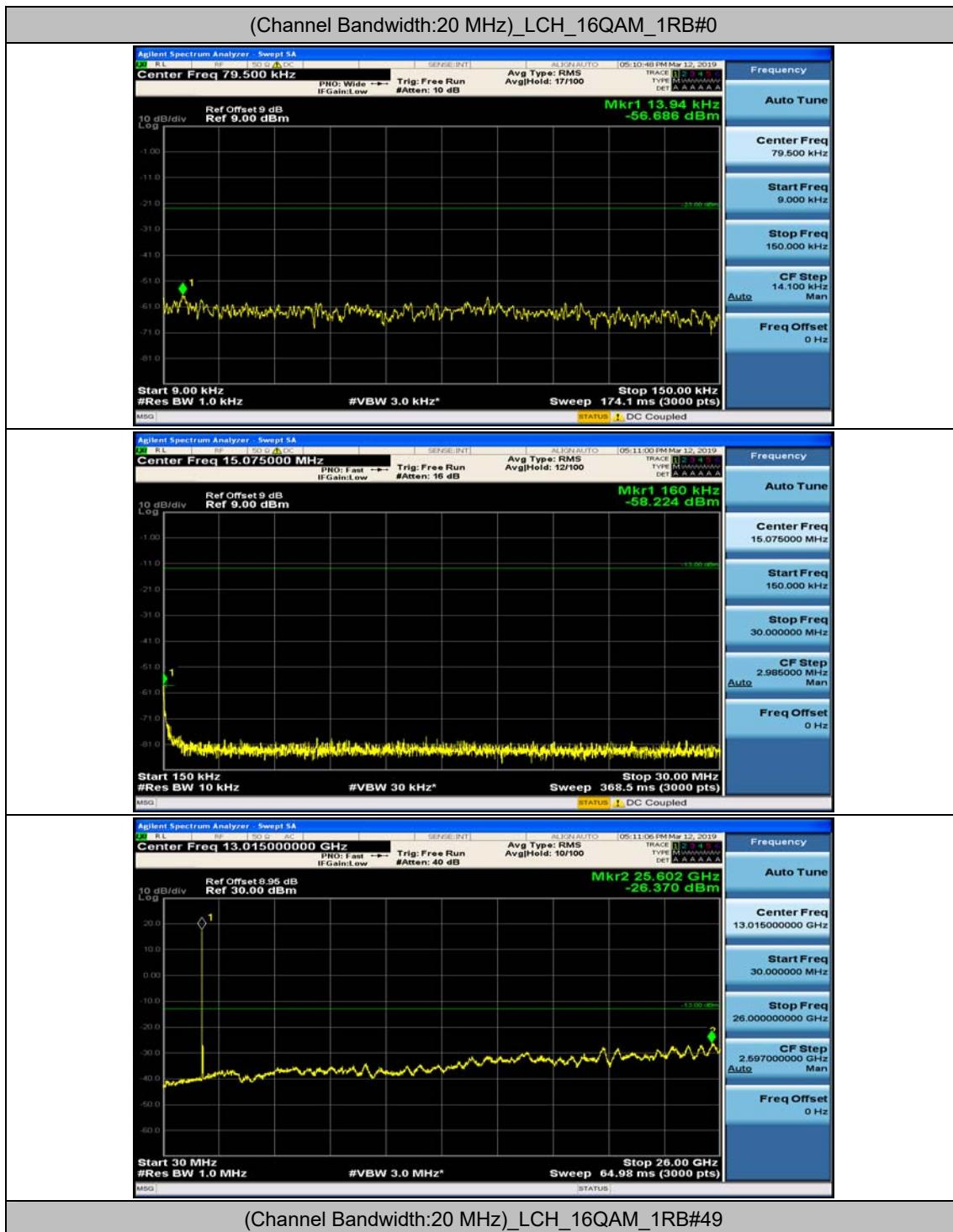


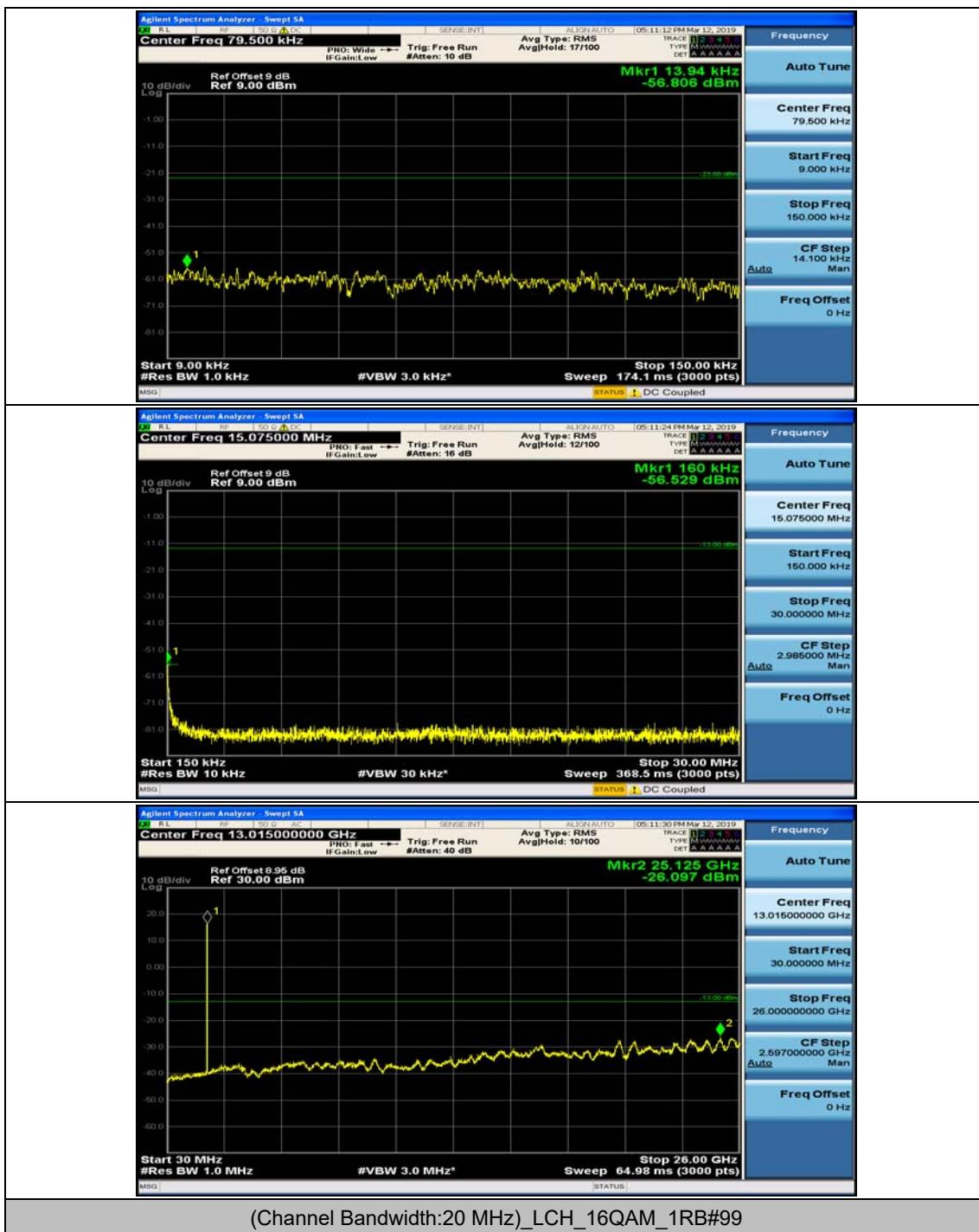


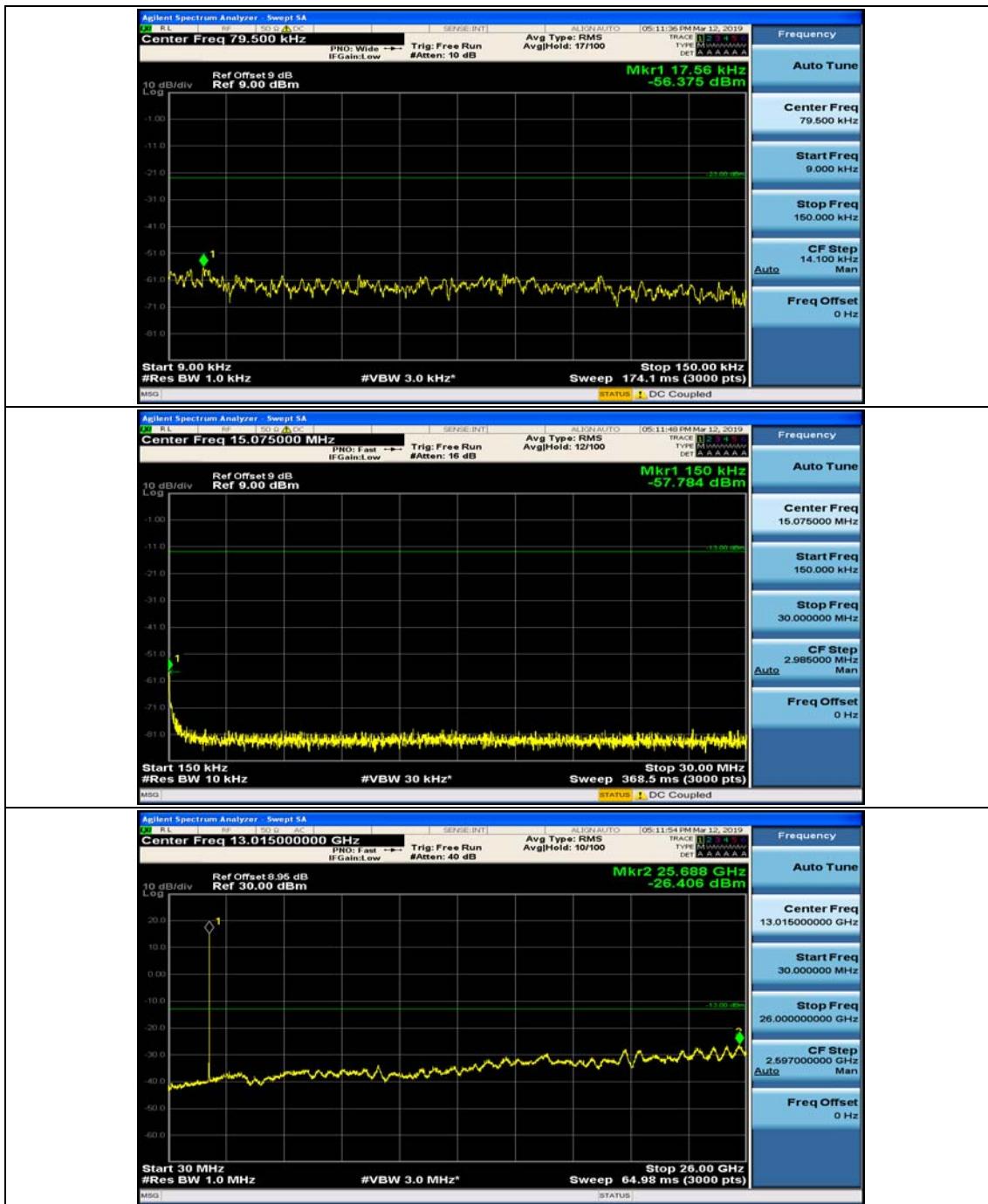


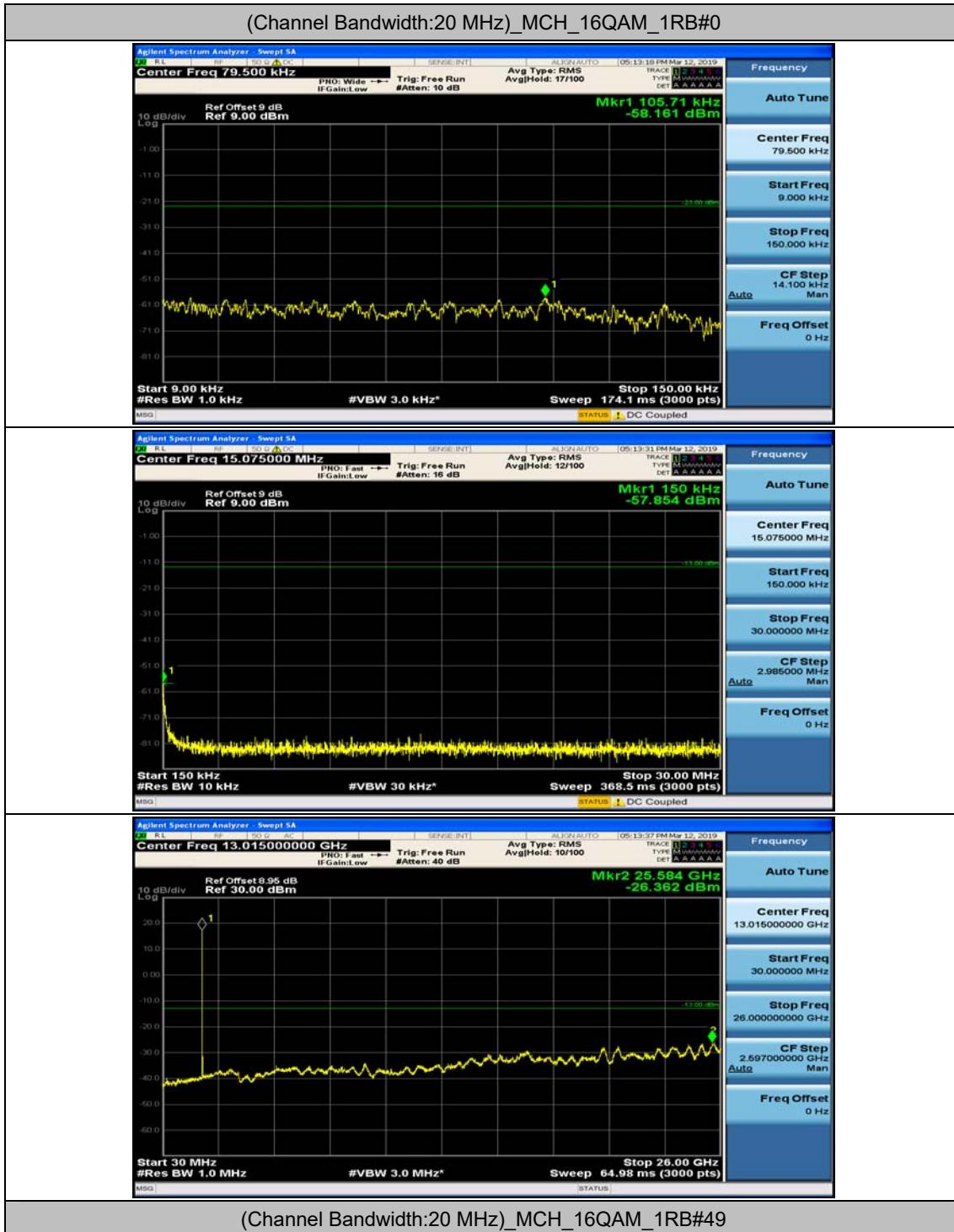


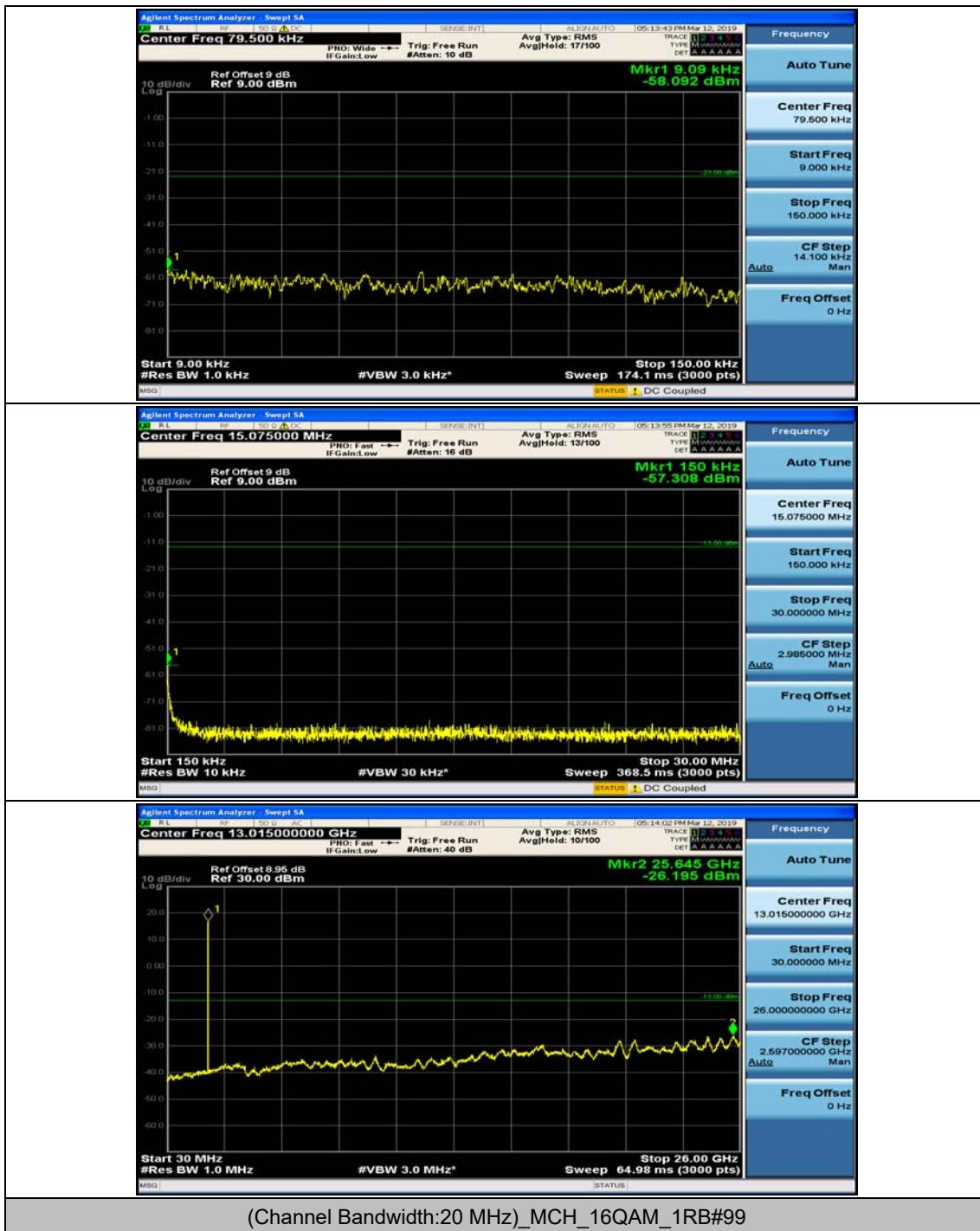


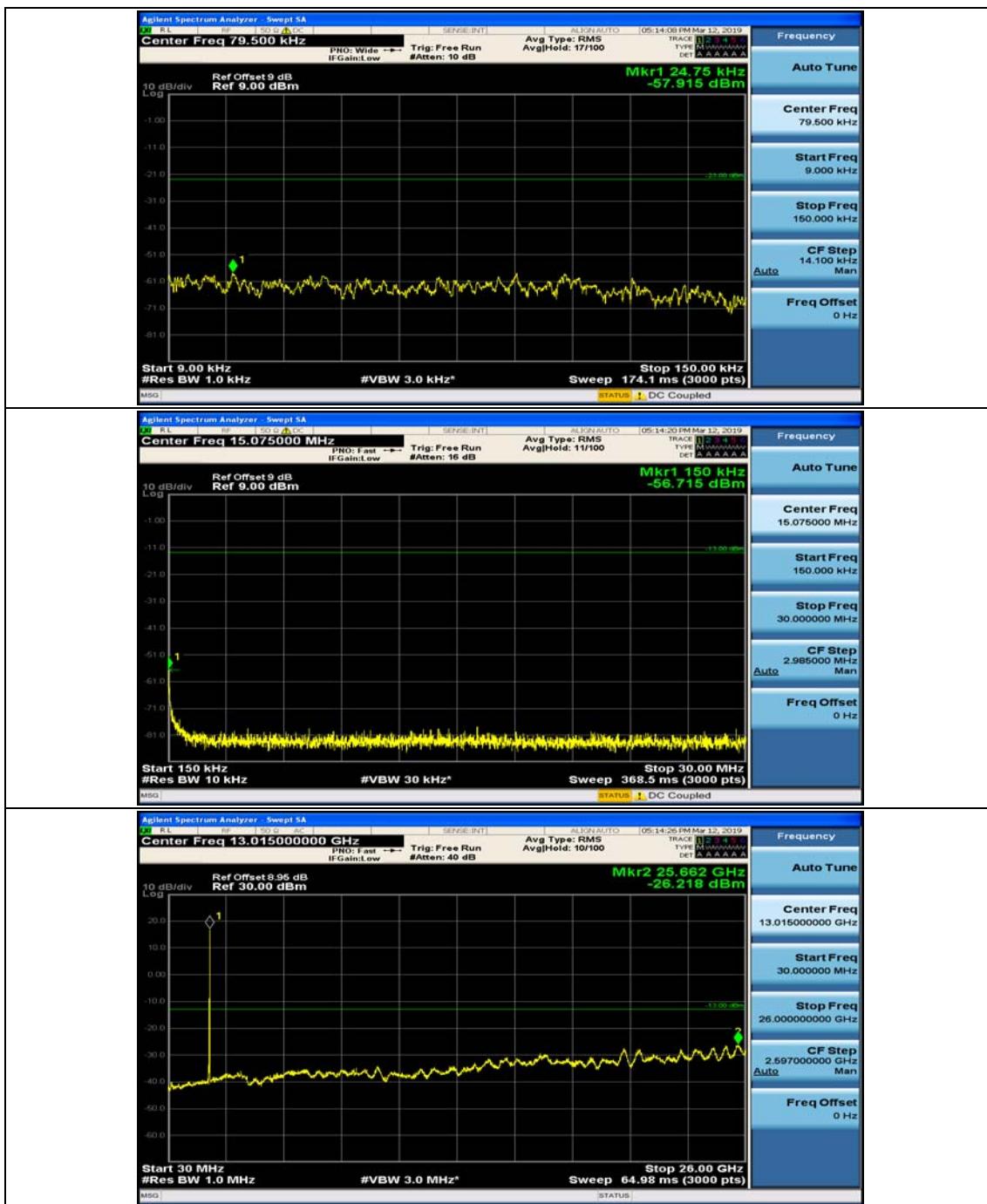


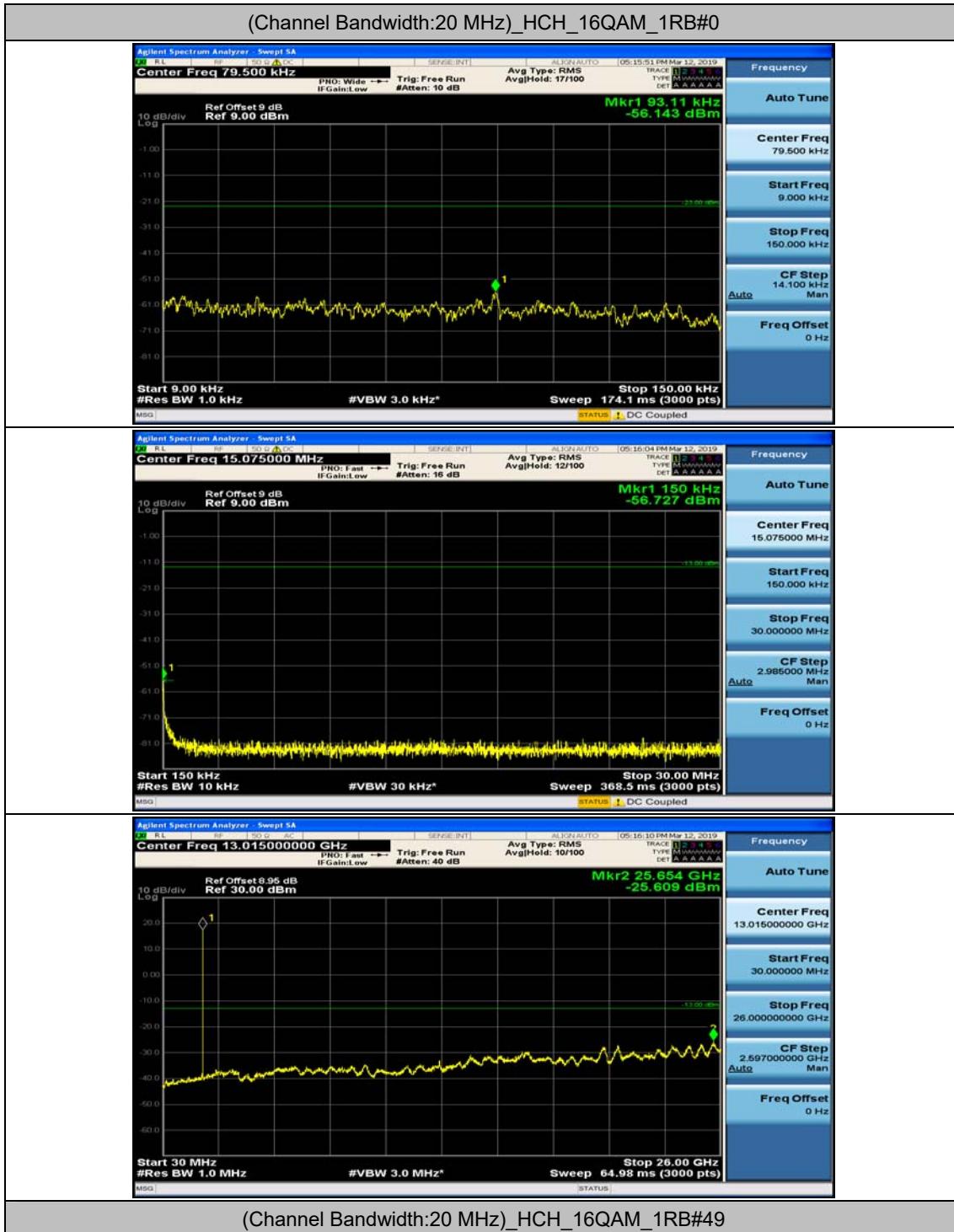


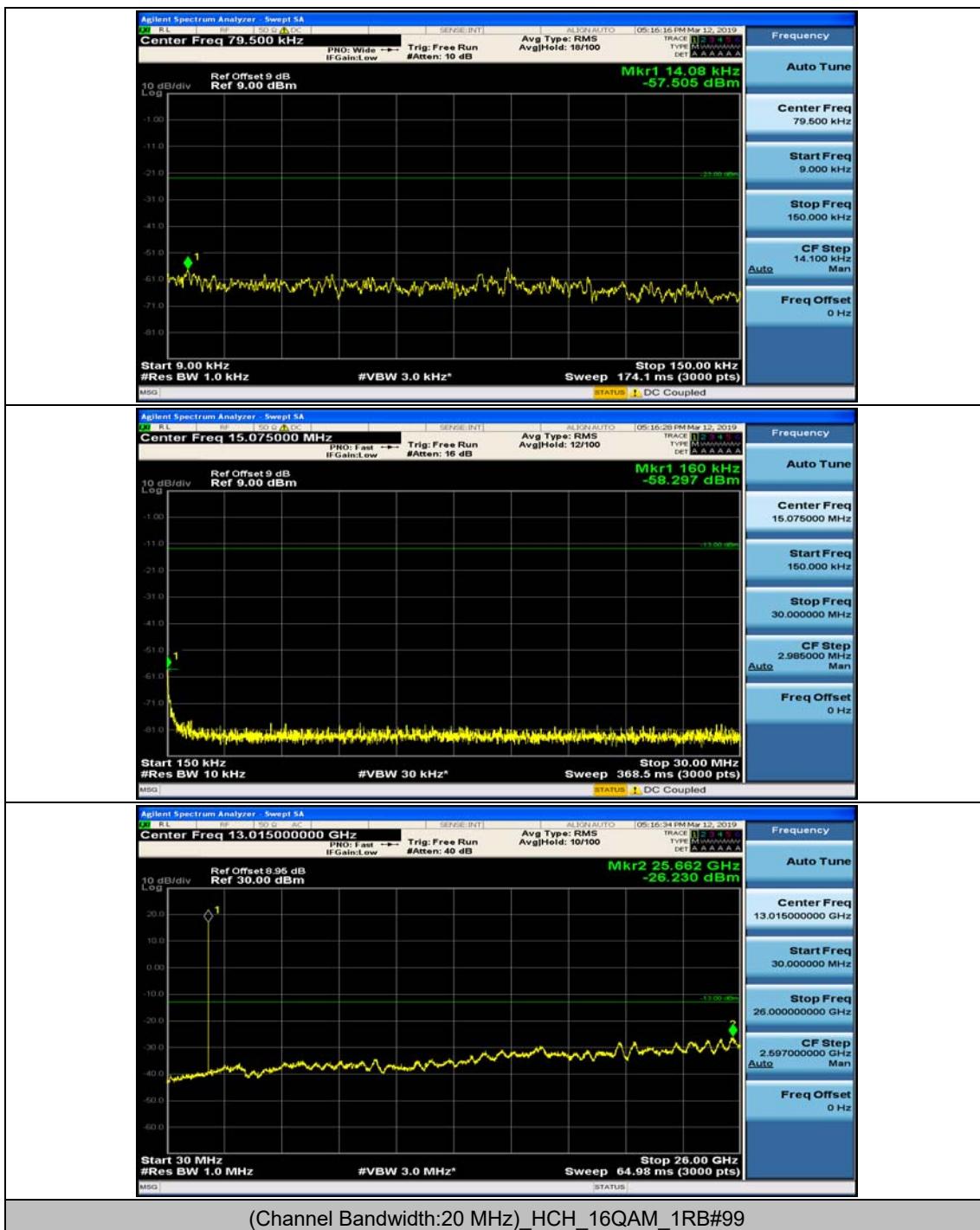


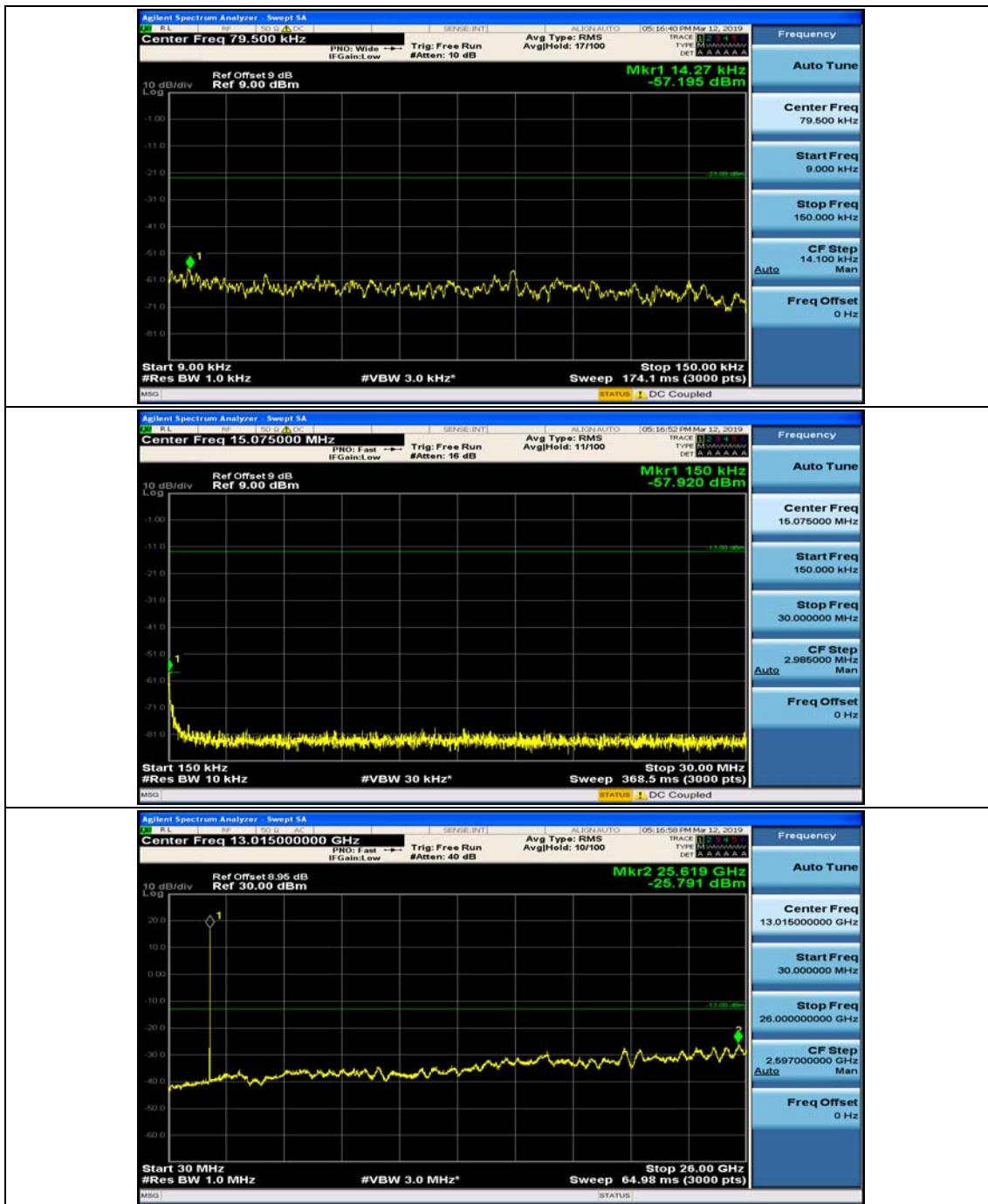












## Appendix F: Frequency Stability

### 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	1.77	0.000956	± 2.5	PASS
		VN	TN	1.12	0.000605	± 2.5	PASS
		VH	TN	-1.13	-0.000611	± 2.5	PASS
	MCH	VL	TN	4.46	0.002372	± 2.5	PASS
		VN	TN	-1.74	-0.000926	± 2.5	PASS
		VH	TN	0.62	0.000330	± 2.5	PASS
	HCH	VL	TN	1.14	0.000597	± 2.5	PASS
		VN	TN	4.98	0.002608	± 2.5	PASS
		VH	TN	3.25	0.001702	± 2.5	PASS
16QAM	LCH	VL	TN	3.75	0.002026	± 2.5	PASS
		VN	TN	-0.07	-0.000038	± 2.5	PASS
		VH	TN	1.74	0.000940	± 2.5	PASS
	MCH	VL	TN	4.2	0.002234	± 2.5	PASS
		VN	TN	2.58	0.001372	± 2.5	PASS
		VH	TN	-0.53	-0.000282	± 2.5	PASS
	HCH	VL	TN	2.24	0.001173	± 2.5	PASS
		VN	TN	3.07	0.001608	± 2.5	PASS
		VH	TN	3.78	0.001980	± 2.5	PASS
Temperature							
Modulation	Channe l	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.32	0.002334	± 2.5	PASS
		VN	-20	2.63	0.001421	± 2.5	PASS
		VN	-10	0.45	0.000243	± 2.5	PASS
		VN	0	1.58	0.000854	± 2.5	PASS
		VN	10	-1.05	-0.000567	± 2.5	PASS
		VN	20	-1.63	-0.000881	± 2.5	PASS
		VN	30	4.54	0.002453	± 2.5	PASS
		VN	40	-0.73	-0.000394	± 2.5	PASS
		VN	50	2.36	0.001275	± 2.5	PASS
	MCH	VN	-30	1.04	0.000553	± 2.5	PASS

		VN	-20	2.71	0.001441	$\pm 2.5$	PASS
		VN	-10	0.2	0.000106	$\pm 2.5$	PASS
		VN	0	1.02	0.000543	$\pm 2.5$	PASS
		VN	10	-0.61	-0.000324	$\pm 2.5$	PASS
		VN	20	-0.44	-0.000234	$\pm 2.5$	PASS
		VN	30	3.87	0.002059	$\pm 2.5$	PASS
		VN	40	3.13	0.001665	$\pm 2.5$	PASS
		VN	50	1.8	0.000957	$\pm 2.5$	PASS
	HCH	VN	-30	2.3	0.001205	$\pm 2.5$	PASS
		VN	-20	4.86	0.002545	$\pm 2.5$	PASS
		VN	-10	3.7	0.001938	$\pm 2.5$	PASS
		VN	0	4.36	0.002284	$\pm 2.5$	PASS
		VN	10	1.58	0.000828	$\pm 2.5$	PASS
		VN	20	-1.95	-0.001021	$\pm 2.5$	PASS
		VN	30	3.61	0.001891	$\pm 2.5$	PASS
		VN	40	3.41	0.001786	$\pm 2.5$	PASS
		VN	50	1.14	0.000597	$\pm 2.5$	PASS
16QAM	LCH	VN	-30	3.55	0.001918	$\pm 2.5$	PASS
		VN	-20	1.38	0.000746	$\pm 2.5$	PASS
		VN	-10	-1.58	-0.000854	$\pm 2.5$	PASS
		VN	0	2.4	0.001297	$\pm 2.5$	PASS
		VN	10	-0.67	-0.000362	$\pm 2.5$	PASS
		VN	20	-0.99	-0.000535	$\pm 2.5$	PASS
		VN	30	4.71	0.002545	$\pm 2.5$	PASS
		VN	40	-0.95	-0.000513	$\pm 2.5$	PASS
		VN	50	-0.12	-0.000065	$\pm 2.5$	PASS
	MCH	VN	-30	0.09	0.000048	$\pm 2.5$	PASS
		VN	-20	-0.24	-0.000128	$\pm 2.5$	PASS
		VN	-10	4.57	0.002431	$\pm 2.5$	PASS
		VN	0	-0.86	-0.000457	$\pm 2.5$	PASS
		VN	10	4.39	0.002335	$\pm 2.5$	PASS
		VN	20	2.52	0.001340	$\pm 2.5$	PASS
		VN	30	1.68	0.000894	$\pm 2.5$	PASS
		VN	40	0.99	0.000527	$\pm 2.5$	PASS
		VN	50	1.83	0.000973	$\pm 2.5$	PASS
	HCH	VN	-30	0.8	0.000419	$\pm 2.5$	PASS
		VN	-20	0.35	0.000183	$\pm 2.5$	PASS
		VN	-10	-0.08	-0.000042	$\pm 2.5$	PASS
		VN	0	2.33	0.001220	$\pm 2.5$	PASS
		VN	10	-0.08	-0.000042	$\pm 2.5$	PASS
		VN	20	4.44	0.002325	$\pm 2.5$	PASS

		VN	30	3.68	0.001927	$\pm 2.5$	PASS
		VN	40	-1.53	-0.000801	$\pm 2.5$	PASS
		VN	50	1.82	0.000953	$\pm 2.5$	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	-0.38	-0.000205	$\pm 2.5$	PASS
		VN	TN	3.22	0.001739	$\pm 2.5$	PASS
		VH	TN	-0.56	-0.000302	$\pm 2.5$	PASS
	MCH	VL	TN	3.95	0.002101	$\pm 2.5$	PASS
		VN	TN	0.39	0.000207	$\pm 2.5$	PASS
		VH	TN	0.43	0.000229	$\pm 2.5$	PASS
	HCH	VL	TN	4.06	0.002127	$\pm 2.5$	PASS
		VN	TN	0.38	0.000199	$\pm 2.5$	PASS
		VH	TN	4.14	0.002169	$\pm 2.5$	PASS
16QAM	LCH	VL	TN	0.86	0.000464	$\pm 2.5$	PASS
		VN	TN	0.38	0.000205	$\pm 2.5$	PASS
		VH	TN	2.64	0.001426	$\pm 2.5$	PASS
	MCH	VL	TN	-1.56	-0.000830	$\pm 2.5$	PASS
		VN	TN	4.1	0.002181	$\pm 2.5$	PASS
		VH	TN	3.67	0.001952	$\pm 2.5$	PASS
	HCH	VL	TN	3.2	0.001677	$\pm 2.5$	PASS
		VN	TN	0.72	0.000377	$\pm 2.5$	PASS
		VH	TN	1.54	0.000807	$\pm 2.5$	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.2	0.000108	$\pm 2.5$	PASS
		VN	-20	2.9	0.001566	$\pm 2.5$	PASS
		VN	-10	-0.2	-0.000108	$\pm 2.5$	PASS
		VN	0	0.64	0.000346	$\pm 2.5$	PASS
		VN	10	0.44	0.000238	$\pm 2.5$	PASS
		VN	20	1.45	0.000783	$\pm 2.5$	PASS
		VN	30	3.45	0.001863	$\pm 2.5$	PASS
		VN	40	2.49	0.001345	$\pm 2.5$	PASS
		VN	50	4.98	0.002690	$\pm 2.5$	PASS
	MCH	VN	-30	3.36	0.001787	$\pm 2.5$	PASS
		VN	-20	3.92	0.002085	$\pm 2.5$	PASS

	HCH	VN	-10	3.29	0.001750	$\pm 2.5$	PASS
		VN	0	-0.8	-0.000426	$\pm 2.5$	PASS
		VN	10	-1	-0.000532	$\pm 2.5$	PASS
		VN	20	-0.34	-0.000181	$\pm 2.5$	PASS
		VN	30	1.37	0.000729	$\pm 2.5$	PASS
		VN	40	0.21	0.000112	$\pm 2.5$	PASS
		VN	50	4.67	0.002484	$\pm 2.5$	PASS
		VN	-30	-1.16	-0.000608	$\pm 2.5$	PASS
		VN	-20	4.1	0.002148	$\pm 2.5$	PASS
		VN	-10	4.87	0.002552	$\pm 2.5$	PASS
	LCH	VN	0	3.26	0.001708	$\pm 2.5$	PASS
		VN	10	3.74	0.001960	$\pm 2.5$	PASS
		VN	20	1.24	0.000650	$\pm 2.5$	PASS
		VN	30	1.85	0.000969	$\pm 2.5$	PASS
		VN	40	4.24	0.002222	$\pm 2.5$	PASS
		VN	50	-0.85	-0.000445	$\pm 2.5$	PASS
		VN	-30	2.07	0.001118	$\pm 2.5$	PASS
		VN	-20	-0.72	-0.000389	$\pm 2.5$	PASS
		VN	-10	4.5	0.002430	$\pm 2.5$	PASS
		VN	0	1.96	0.001059	$\pm 2.5$	PASS
	QPSK	VN	10	-0.08	-0.000043	$\pm 2.5$	PASS
		VN	20	-1.41	-0.000762	$\pm 2.5$	PASS
		VN	30	-0.56	-0.000302	$\pm 2.5$	PASS
		VN	40	-0.71	-0.000383	$\pm 2.5$	PASS
		VN	50	-0.53	-0.000286	$\pm 2.5$	PASS
		VN	-30	1.95	0.001037	$\pm 2.5$	PASS
		VN	-20	1.07	0.000569	$\pm 2.5$	PASS
		VN	-10	-1.72	-0.000915	$\pm 2.5$	PASS
		VN	0	1.43	0.000761	$\pm 2.5$	PASS
		VN	10	3.18	0.001691	$\pm 2.5$	PASS
	MCH	VN	20	-0.62	-0.000330	$\pm 2.5$	PASS
		VN	30	-1.14	-0.000606	$\pm 2.5$	PASS
		VN	40	3.82	0.002032	$\pm 2.5$	PASS
		VN	50	0.6	0.000319	$\pm 2.5$	PASS
		VN	-30	4.1	0.002148	$\pm 2.5$	PASS
		VN	-20	2.25	0.001179	$\pm 2.5$	PASS
		VN	-10	-1.23	-0.000644	$\pm 2.5$	PASS
		VN	0	4.08	0.002138	$\pm 2.5$	PASS
		VN	10	3.65	0.001912	$\pm 2.5$	PASS
		VN	20	0.84	0.000440	$\pm 2.5$	PASS
	HCH	VN	30	4.39	0.002300	$\pm 2.5$	PASS

		VN	40	2.75	0.001441	$\pm 2.5$	PASS
		VN	50	4.29	0.002248	$\pm 2.5$	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	-1.8	-0.000972	$\pm 2.5$	PASS
		VN	TN	1.35	0.000729	$\pm 2.5$	PASS
		VH	TN	-1.06	-0.000572	$\pm 2.5$	PASS
	MCH	VL	TN	3.55	0.001888	$\pm 2.5$	PASS
		VN	TN	3.21	0.001707	$\pm 2.5$	PASS
		VH	TN	-0.62	-0.000330	$\pm 2.5$	PASS
	HCH	VL	TN	3.17	0.001662	$\pm 2.5$	PASS
		VN	TN	4.11	0.002155	$\pm 2.5$	PASS
		VH	TN	2.87	0.001505	$\pm 2.5$	PASS
16QAM	LCH	VL	TN	1.39	0.000750	$\pm 2.5$	PASS
		VN	TN	3.25	0.001754	$\pm 2.5$	PASS
		VH	TN	2.89	0.001560	$\pm 2.5$	PASS
	MCH	VL	TN	-1.35	-0.000718	$\pm 2.5$	PASS
		VN	TN	2.8	0.001489	$\pm 2.5$	PASS
		VH	TN	-0.39	-0.000207	$\pm 2.5$	PASS
	HCH	VL	TN	-1.86	-0.000975	$\pm 2.5$	PASS
		VN	TN	4.14	0.002170	$\pm 2.5$	PASS
		VH	TN	4.65	0.002438	$\pm 2.5$	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.21	0.000113	$\pm 2.5$	PASS
		VN	-20	3.22	0.001738	$\pm 2.5$	PASS
		VN	-10	0.29	0.000157	$\pm 2.5$	PASS
		VN	0	3.18	0.001717	$\pm 2.5$	PASS
		VN	10	1.92	0.001036	$\pm 2.5$	PASS
		VN	20	-0.17	-0.000092	$\pm 2.5$	PASS
		VN	30	3.52	0.001900	$\pm 2.5$	PASS
		VN	40	3.72	0.002008	$\pm 2.5$	PASS
		VN	50	2.64	0.001425	$\pm 2.5$	PASS
	MCH	VN	-30	0.79	0.000420	$\pm 2.5$	PASS
		VN	-20	0.72	0.000383	$\pm 2.5$	PASS
		VN	-10	3.5	0.001862	$\pm 2.5$	PASS

		VN	0	2.36	0.001255	$\pm 2.5$	PASS
		VN	10	4	0.002128	$\pm 2.5$	PASS
		VN	20	4.73	0.002516	$\pm 2.5$	PASS
		VN	30	1.74	0.000926	$\pm 2.5$	PASS
		VN	40	1.22	0.000649	$\pm 2.5$	PASS
		VN	50	1.61	0.000856	$\pm 2.5$	PASS
		VN	-30	4.86	0.002548	$\pm 2.5$	PASS
		VN	-20	4.66	0.002443	$\pm 2.5$	PASS
		VN	-10	4.84	0.002537	$\pm 2.5$	PASS
		VN	0	4.88	0.002558	$\pm 2.5$	PASS
	HCH	VN	10	0.52	0.000273	$\pm 2.5$	PASS
		VN	20	2.97	0.001557	$\pm 2.5$	PASS
		VN	30	4.35	0.002280	$\pm 2.5$	PASS
		VN	40	4.08	0.002139	$\pm 2.5$	PASS
		VN	50	-0.26	-0.000136	$\pm 2.5$	PASS
		VN	-30	2.78	0.001501	$\pm 2.5$	PASS
		VN	-20	1.66	0.000896	$\pm 2.5$	PASS
		VN	-10	-0.21	-0.000113	$\pm 2.5$	PASS
		VN	0	1.29	0.000696	$\pm 2.5$	PASS
		VN	10	2.76	0.001490	$\pm 2.5$	PASS
	LCH	VN	20	4.23	0.002283	$\pm 2.5$	PASS
		VN	30	-1.04	-0.000561	$\pm 2.5$	PASS
		VN	40	4.35	0.002348	$\pm 2.5$	PASS
		VN	50	1.19	0.000642	$\pm 2.5$	PASS
		VN	-30	2.51	0.001335	$\pm 2.5$	PASS
		VN	-20	3.62	0.001926	$\pm 2.5$	PASS
		VN	-10	-0.02	-0.000011	$\pm 2.5$	PASS
		VN	0	3.65	0.001941	$\pm 2.5$	PASS
		VN	10	3.79	0.002016	$\pm 2.5$	PASS
		VN	20	1.01	0.000537	$\pm 2.5$	PASS
	MCH	VN	30	2.68	0.001426	$\pm 2.5$	PASS
		VN	40	-0.09	-0.000048	$\pm 2.5$	PASS
		VN	50	4.3	0.002287	$\pm 2.5$	PASS
		VN	-30	1.01	0.000529	$\pm 2.5$	PASS
		VN	-20	1.96	0.001028	$\pm 2.5$	PASS
		VN	-10	2.92	0.001531	$\pm 2.5$	PASS
		VN	0	3.01	0.001578	$\pm 2.5$	PASS
		VN	10	3.37	0.001767	$\pm 2.5$	PASS
		VN	20	-0.56	-0.000294	$\pm 2.5$	PASS
		VN	30	3.57	0.001872	$\pm 2.5$	PASS
	HCH	VN	40	4.98	0.002611	$\pm 2.5$	PASS

		VN	50	-1.05	-0.000550	$\pm 2.5$	PASS
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## 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	0.89	0.000480	$\pm 2.5$	PASS
		VN	TN	-1.07	-0.000577	$\pm 2.5$	PASS
		VH	TN	0.48	0.000259	$\pm 2.5$	PASS
	MCH	VL	TN	0.83	0.000441	$\pm 2.5$	PASS
		VN	TN	4.51	0.002399	$\pm 2.5$	PASS
		VH	TN	-0.47	-0.000250	$\pm 2.5$	PASS
	HCH	VL	TN	4.68	0.002457	$\pm 2.5$	PASS
		VN	TN	-1.34	-0.000703	$\pm 2.5$	PASS
		VH	TN	-0.81	-0.000425	$\pm 2.5$	PASS
16QAM	LCH	VL	TN	3.48	0.001876	$\pm 2.5$	PASS
		VN	TN	0.23	0.000124	$\pm 2.5$	PASS
		VH	TN	-0.07	-0.000038	$\pm 2.5$	PASS
	MCH	VL	TN	0.72	0.000383	$\pm 2.5$	PASS
		VN	TN	0.27	0.000144	$\pm 2.5$	PASS
		VH	TN	-1.62	-0.000862	$\pm 2.5$	PASS
	HCH	VL	TN	1.9	0.000997	$\pm 2.5$	PASS
		VN	TN	-0.57	-0.000299	$\pm 2.5$	PASS
		VH	TN	-1.48	-0.000777	$\pm 2.5$	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	2.3	0.001240	$\pm 2.5$	PASS
		VN	-20	-1.72	-0.000927	$\pm 2.5$	PASS
		VN	-10	-0.34	-0.000183	$\pm 2.5$	PASS
		VN	0	2.46	0.001326	$\pm 2.5$	PASS
		VN	10	4.99	0.002690	$\pm 2.5$	PASS
		VN	20	0.52	0.000280	$\pm 2.5$	PASS
		VN	30	1.93	0.001040	$\pm 2.5$	PASS
		VN	40	0.18	0.000097	$\pm 2.5$	PASS
		VN	50	2.56	0.001380	$\pm 2.5$	PASS
	MCH	VN	-30	0.87	0.000463	$\pm 2.5$	PASS
		VN	-20	-0.28	-0.000149	$\pm 2.5$	PASS
		VN	-10	2.12	0.001128	$\pm 2.5$	PASS
		VN	0	4.95	0.002633	$\pm 2.5$	PASS

		VN	10	3.35	0.001782	$\pm 2.5$	PASS
		VN	20	-1.99	-0.001059	$\pm 2.5$	PASS
		VN	30	-1.17	-0.000622	$\pm 2.5$	PASS
		VN	40	0.8	0.000426	$\pm 2.5$	PASS
		VN	50	-0.34	-0.000181	$\pm 2.5$	PASS
		VN	-30	4.24	0.002226	$\pm 2.5$	PASS
		VN	-20	4.19	0.002199	$\pm 2.5$	PASS
		VN	-10	-0.46	-0.000241	$\pm 2.5$	PASS
		VN	0	0.44	0.000231	$\pm 2.5$	PASS
		VN	10	3.33	0.001748	$\pm 2.5$	PASS
		VN	20	3.63	0.001906	$\pm 2.5$	PASS
		VN	30	3.16	0.001659	$\pm 2.5$	PASS
		VN	40	3.48	0.001827	$\pm 2.5$	PASS
		VN	50	2.93	0.001538	$\pm 2.5$	PASS
		VN	-30	0.51	0.000275	$\pm 2.5$	PASS
		VN	-20	-1.44	-0.000776	$\pm 2.5$	PASS
		VN	-10	0.97	0.000523	$\pm 2.5$	PASS
		VN	0	1.19	0.000642	$\pm 2.5$	PASS
		VN	10	-0.93	-0.000501	$\pm 2.5$	PASS
		VN	20	4.48	0.002415	$\pm 2.5$	PASS
		VN	30	3.07	0.001655	$\pm 2.5$	PASS
		VN	40	2.1	0.001132	$\pm 2.5$	PASS
		VN	50	4.92	0.002652	$\pm 2.5$	PASS
		VN	-30	1.07	0.000569	$\pm 2.5$	PASS
		VN	-20	-0.13	-0.000069	$\pm 2.5$	PASS
		VN	-10	2.95	0.001569	$\pm 2.5$	PASS
		VN	0	2.64	0.001404	$\pm 2.5$	PASS
		VN	10	-1.76	-0.000936	$\pm 2.5$	PASS
		VN	20	-1.1	-0.000585	$\pm 2.5$	PASS
		VN	30	3.82	0.002032	$\pm 2.5$	PASS
		VN	40	4.31	0.002293	$\pm 2.5$	PASS
		VN	50	0.47	0.000250	$\pm 2.5$	PASS
		VN	-30	4.24	0.002226	$\pm 2.5$	PASS
		VN	-20	4.12	0.002163	$\pm 2.5$	PASS
		VN	-10	4.93	0.002588	$\pm 2.5$	PASS
		VN	0	4.7	0.002467	$\pm 2.5$	PASS
		VN	10	0.86	0.000451	$\pm 2.5$	PASS
		VN	20	1.14	0.000598	$\pm 2.5$	PASS
		VN	30	2.51	0.001318	$\pm 2.5$	PASS
		VN	40	-1.85	-0.000971	$\pm 2.5$	PASS
		VN	50	-0.83	-0.000436	$\pm 2.5$	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	-1.78	-0.000958	± 2.5	PASS
		VN	TN	3.88	0.002089	± 2.5	PASS
		VH	TN	0.42	0.000226	± 2.5	PASS
	MCH	VL	TN	-1.26	-0.000670	± 2.5	PASS
		VN	TN	0.37	0.000197	± 2.5	PASS
		VH	TN	-0.88	-0.000468	± 2.5	PASS
	HCH	VL	TN	4.32	0.002271	± 2.5	PASS
		VN	TN	-1.29	-0.000678	± 2.5	PASS
		VH	TN	-1.07	-0.000562	± 2.5	PASS
16QAM	LCH	VL	TN	1.38	0.000743	± 2.5	PASS
		VN	TN	2.56	0.001378	± 2.5	PASS
		VH	TN	-1.91	-0.001028	± 2.5	PASS
	MCH	VL	TN	-0.07	-0.000037	± 2.5	PASS
		VN	TN	-1.94	-0.001032	± 2.5	PASS
		VH	TN	1.68	0.000894	± 2.5	PASS
	HCH	VL	TN	-1.66	-0.000873	± 2.5	PASS
		VN	TN	3.71	0.001950	± 2.5	PASS
		VH	TN	3.15	0.001656	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.75	0.002019	± 2.5	PASS
		VN	-20	3.2	0.001723	± 2.5	PASS
		VN	-10	0.46	0.000248	± 2.5	PASS
		VN	0	2.44	0.001314	± 2.5	PASS
		VN	10	0.3	0.000162	± 2.5	PASS
		VN	20	3.96	0.002132	± 2.5	PASS
		VN	30	2.33	0.001254	± 2.5	PASS
		VN	40	4.84	0.002606	± 2.5	PASS
		VN	50	1.34	0.000721	± 2.5	PASS
	MCH	VN	-30	4.74	0.002521	± 2.5	PASS
		VN	-20	2.9	0.001543	± 2.5	PASS
		VN	-10	-0.42	-0.000223	± 2.5	PASS
		VN	0	-1.81	-0.000963	± 2.5	PASS
		VN	10	4.78	0.002543	± 2.5	PASS
		VN	20	3.29	0.001750	± 2.5	PASS

	HCH	VN	30	-0.04	-0.000021	$\pm 2.5$	PASS
		VN	40	0.51	0.000271	$\pm 2.5$	PASS
		VN	50	4.07	0.002165	$\pm 2.5$	PASS
		VN	-30	-0.46	-0.000242	$\pm 2.5$	PASS
		VN	-20	1.87	0.000983	$\pm 2.5$	PASS
		VN	-10	0.35	0.000184	$\pm 2.5$	PASS
		VN	0	1.58	0.000830	$\pm 2.5$	PASS
		VN	10	0.75	0.000394	$\pm 2.5$	PASS
		VN	20	0.25	0.000131	$\pm 2.5$	PASS
		VN	30	4.09	0.002150	$\pm 2.5$	PASS
	LCH	VN	40	4.02	0.002113	$\pm 2.5$	PASS
		VN	50	0.27	0.000142	$\pm 2.5$	PASS
		VN	-30	2.48	0.001335	$\pm 2.5$	PASS
		VN	-20	-0.37	-0.000199	$\pm 2.5$	PASS
		VN	-10	3.76	0.002024	$\pm 2.5$	PASS
		VN	0	-1.25	-0.000673	$\pm 2.5$	PASS
		VN	10	-1.97	-0.001061	$\pm 2.5$	PASS
		VN	20	3.23	0.001739	$\pm 2.5$	PASS
		VN	30	2.12	0.001141	$\pm 2.5$	PASS
	MCH	VN	40	-1.69	-0.000910	$\pm 2.5$	PASS
		VN	50	-0.09	-0.000048	$\pm 2.5$	PASS
		VN	-30	2.42	0.001287	$\pm 2.5$	PASS
		VN	-20	0.8	0.000426	$\pm 2.5$	PASS
		VN	-10	2.25	0.001197	$\pm 2.5$	PASS
		VN	0	1.72	0.000915	$\pm 2.5$	PASS
		VN	10	-0.56	-0.000298	$\pm 2.5$	PASS
		VN	20	-1.76	-0.000936	$\pm 2.5$	PASS
		VN	30	0.48	0.000255	$\pm 2.5$	PASS
	HCH	VN	40	1.55	0.000824	$\pm 2.5$	PASS
		VN	50	-0.58	-0.000309	$\pm 2.5$	PASS
		VN	-30	3.01	0.001582	$\pm 2.5$	PASS
		VN	-20	2.32	0.001219	$\pm 2.5$	PASS
		VN	-10	2.57	0.001351	$\pm 2.5$	PASS
		VN	0	-1.5	-0.000788	$\pm 2.5$	PASS
		VN	10	2.29	0.001204	$\pm 2.5$	PASS
		VN	20	4.89	0.002570	$\pm 2.5$	PASS
		VN	30	-1.34	-0.000704	$\pm 2.5$	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	-0.74	-0.000398	± 2.5	PASS
		VN	TN	0.23	0.000124	± 2.5	PASS
		VH	TN	-1.12	-0.000602	± 2.5	PASS
	MCH	VL	TN	-0.97	-0.000516	± 2.5	PASS
		VN	TN	3.85	0.002048	± 2.5	PASS
		VH	TN	2.83	0.001505	± 2.5	PASS
	HCH	VL	TN	1.11	0.000584	± 2.5	PASS
		VN	TN	1.1	0.000579	± 2.5	PASS
		VH	TN	0.71	0.000374	± 2.5	PASS
16QAM	LCH	VL	TN	-0.46	-0.000247	± 2.5	PASS
		VN	TN	-0.03	-0.000016	± 2.5	PASS
		VH	TN	4.02	0.002161	± 2.5	PASS
	MCH	VL	TN	-1.73	-0.000920	± 2.5	PASS
		VN	TN	-1.19	-0.000633	± 2.5	PASS
		VH	TN	4.98	0.002649	± 2.5	PASS
	HCH	VL	TN	0.35	0.000184	± 2.5	PASS
		VN	TN	3.7	0.001947	± 2.5	PASS
		VH	TN	-0.38	-0.000200	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.08	0.001118	± 2.5	PASS
		VN	-20	1.6	0.000860	± 2.5	PASS
		VN	-10	4.83	0.002597	± 2.5	PASS
		VN	0	-0.61	-0.000328	± 2.5	PASS
		VN	10	-1.84	-0.000989	± 2.5	PASS
		VN	20	4.75	0.002554	± 2.5	PASS
		VN	30	0.06	0.000032	± 2.5	PASS
		VN	40	-1.43	-0.000769	± 2.5	PASS
		VN	50	2.5	0.001344	± 2.5	PASS
	MCH	VN	-30	4.6	0.002447	± 2.5	PASS
		VN	-20	1.17	0.000622	± 2.5	PASS
		VN	-10	4.46	0.002372	± 2.5	PASS
		VN	0	-0.41	-0.000218	± 2.5	PASS
		VN	10	-0.98	-0.000521	± 2.5	PASS
		VN	20	0.32	0.000170	± 2.5	PASS

	HCH	VN	30	3.66	0.001947	$\pm 2.5$	PASS
		VN	40	2.78	0.001479	$\pm 2.5$	PASS
		VN	50	0.1	0.000053	$\pm 2.5$	PASS
		VN	-30	1.95	0.001026	$\pm 2.5$	PASS
		VN	-20	1.73	0.000911	$\pm 2.5$	PASS
		VN	-10	-1.28	-0.000674	$\pm 2.5$	PASS
		VN	0	3.05	0.001605	$\pm 2.5$	PASS
		VN	10	-0.69	-0.000363	$\pm 2.5$	PASS
		VN	20	2.35	0.001237	$\pm 2.5$	PASS
		VN	30	4.09	0.002153	$\pm 2.5$	PASS
	LCH	VN	40	3.47	0.001826	$\pm 2.5$	PASS
		VN	50	-1.78	-0.000937	$\pm 2.5$	PASS
		VN	-30	1.74	0.000935	$\pm 2.5$	PASS
		VN	-20	4.59	0.002468	$\pm 2.5$	PASS
		VN	-10	0.83	0.000446	$\pm 2.5$	PASS
		VN	0	-0.5	-0.000269	$\pm 2.5$	PASS
		VN	10	3.14	0.001688	$\pm 2.5$	PASS
		VN	20	1.75	0.000941	$\pm 2.5$	PASS
		VN	30	4.72	0.002538	$\pm 2.5$	PASS
	MCH	VN	40	-0.34	-0.000183	$\pm 2.5$	PASS
		VN	50	4.01	0.002156	$\pm 2.5$	PASS
		VN	-30	2.51	0.001335	$\pm 2.5$	PASS
		VN	-20	-1.79	-0.000952	$\pm 2.5$	PASS
		VN	-10	3.76	0.002000	$\pm 2.5$	PASS
		VN	0	0.07	0.000037	$\pm 2.5$	PASS
		VN	10	0.37	0.000197	$\pm 2.5$	PASS
		VN	20	1.08	0.000574	$\pm 2.5$	PASS
		VN	30	1.51	0.000803	$\pm 2.5$	PASS
	HCH	VN	40	2.72	0.001447	$\pm 2.5$	PASS
		VN	50	2.93	0.001559	$\pm 2.5$	PASS
		VN	-30	2.38	0.001253	$\pm 2.5$	PASS
		VN	-20	3.83	0.002016	$\pm 2.5$	PASS
		VN	-10	2.24	0.001179	$\pm 2.5$	PASS
		VN	0	4.08	0.002147	$\pm 2.5$	PASS
		VN	10	-0.13	-0.000068	$\pm 2.5$	PASS
		VN	20	-0.08	-0.000042	$\pm 2.5$	PASS
		VN	30	0.05	0.000026	$\pm 2.5$	PASS