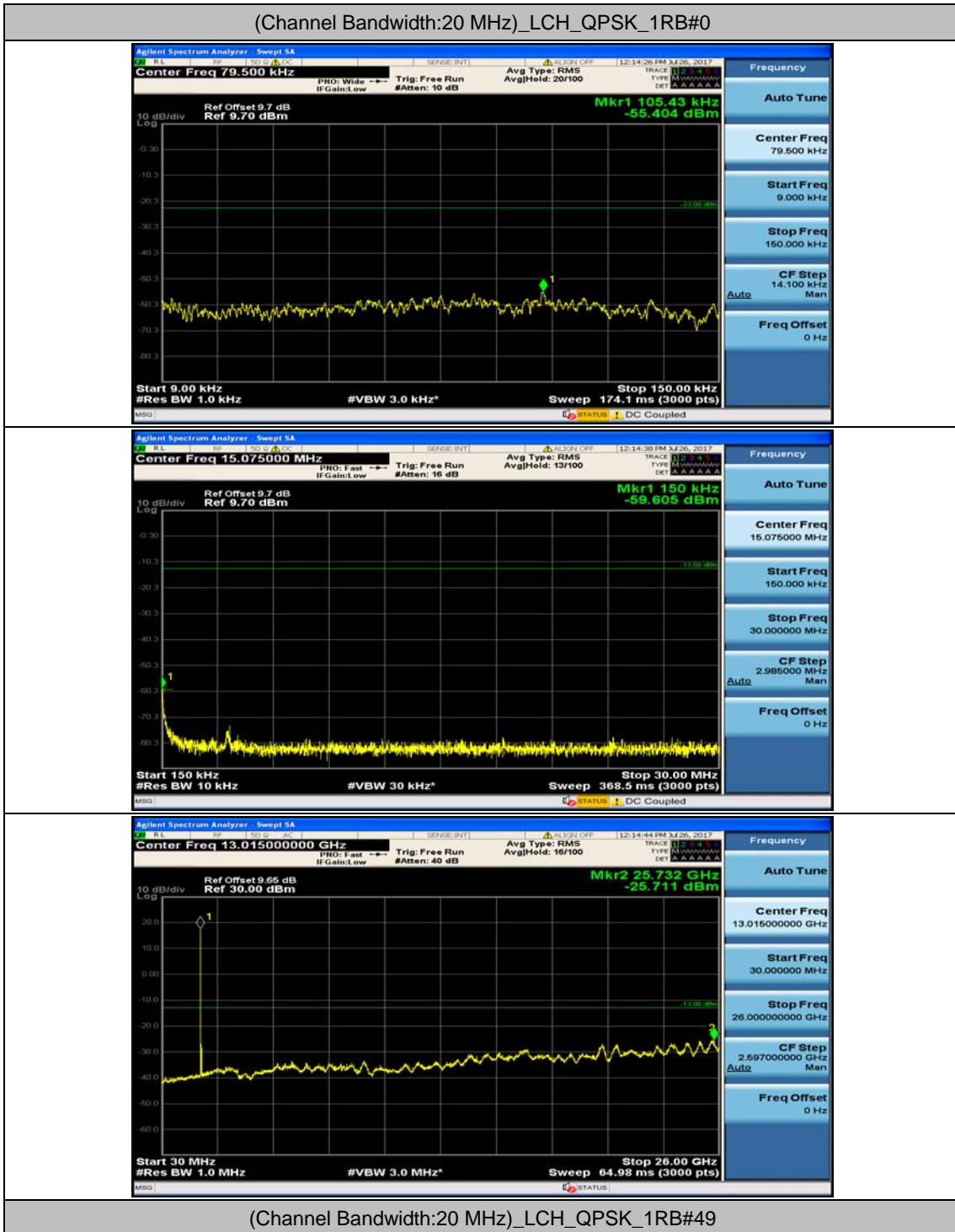
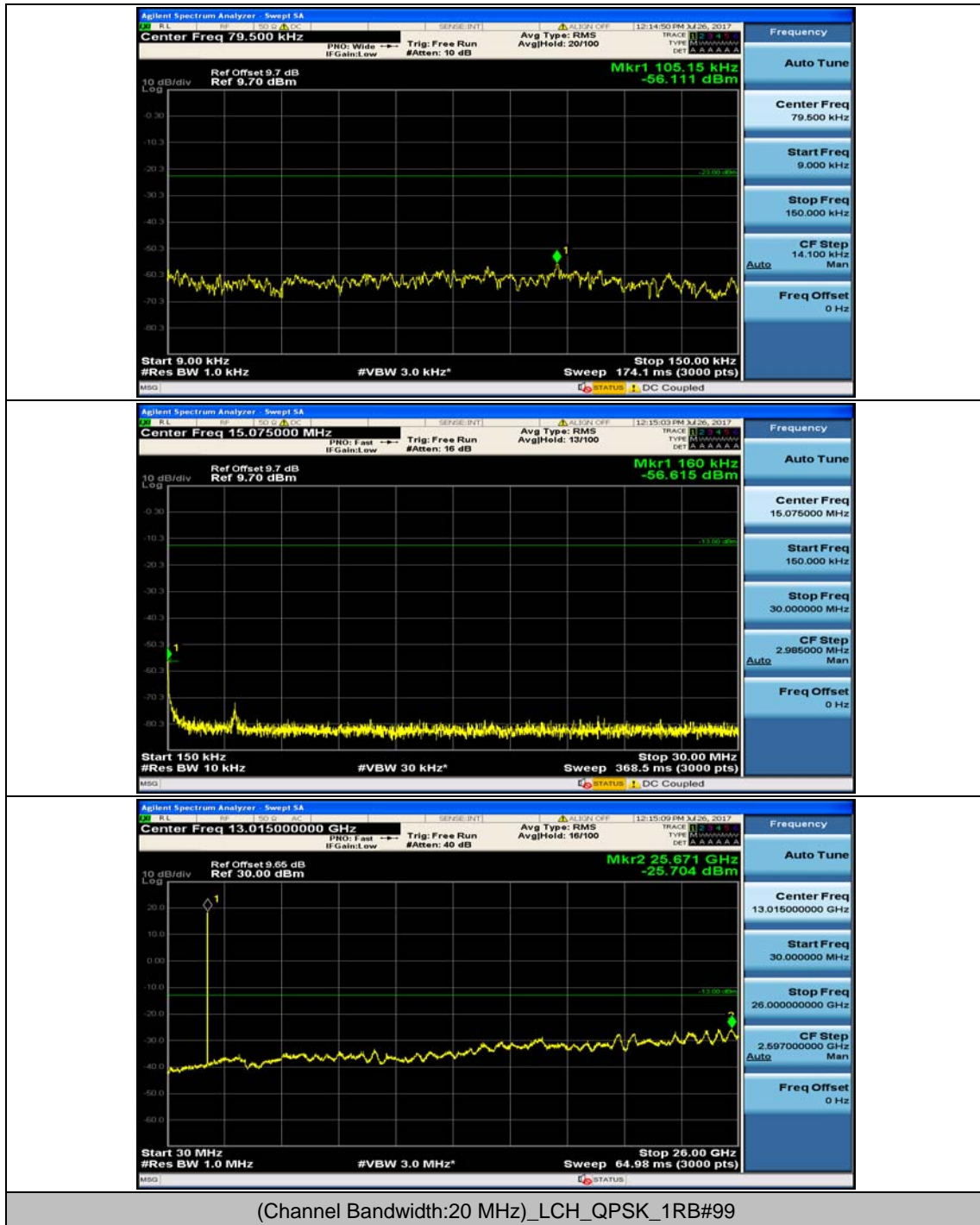
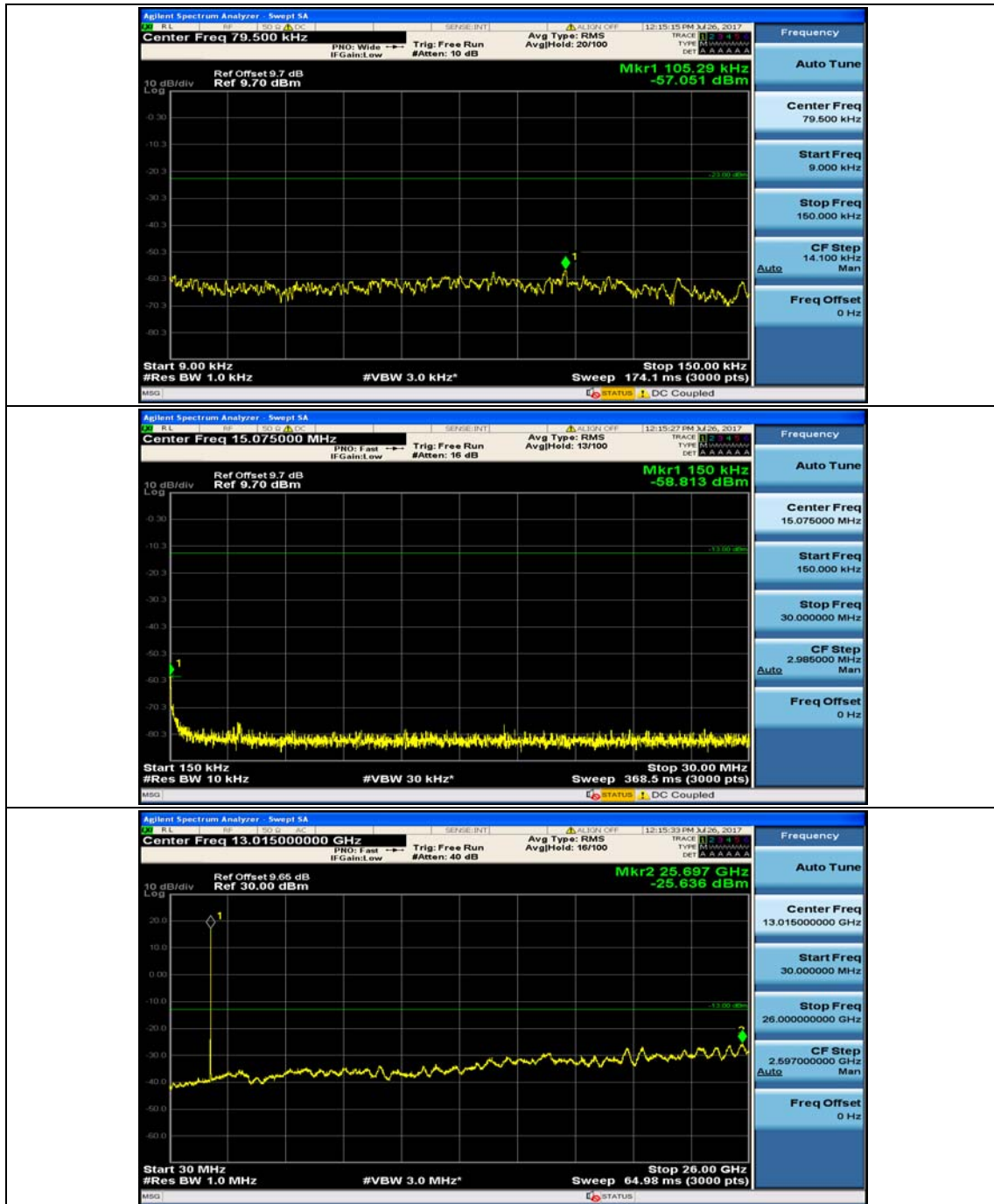


### Channel Bandwidth: 20 MHz

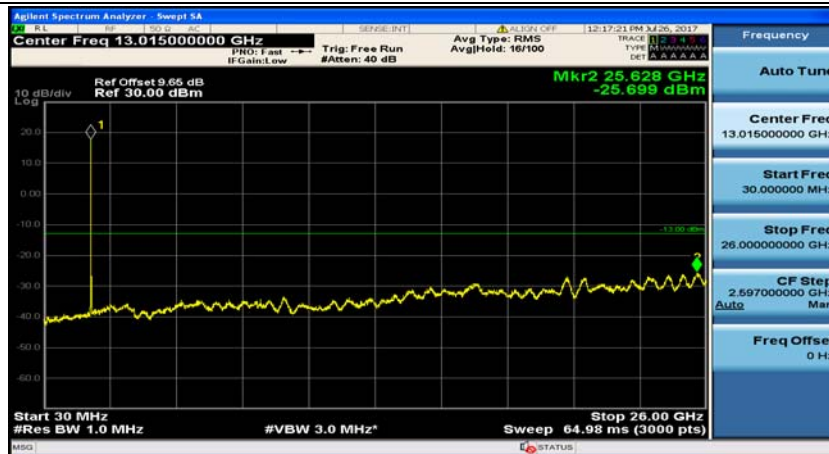
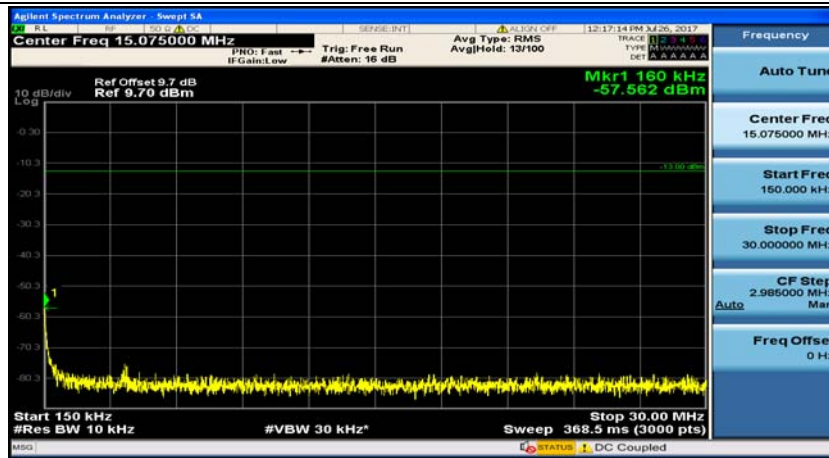




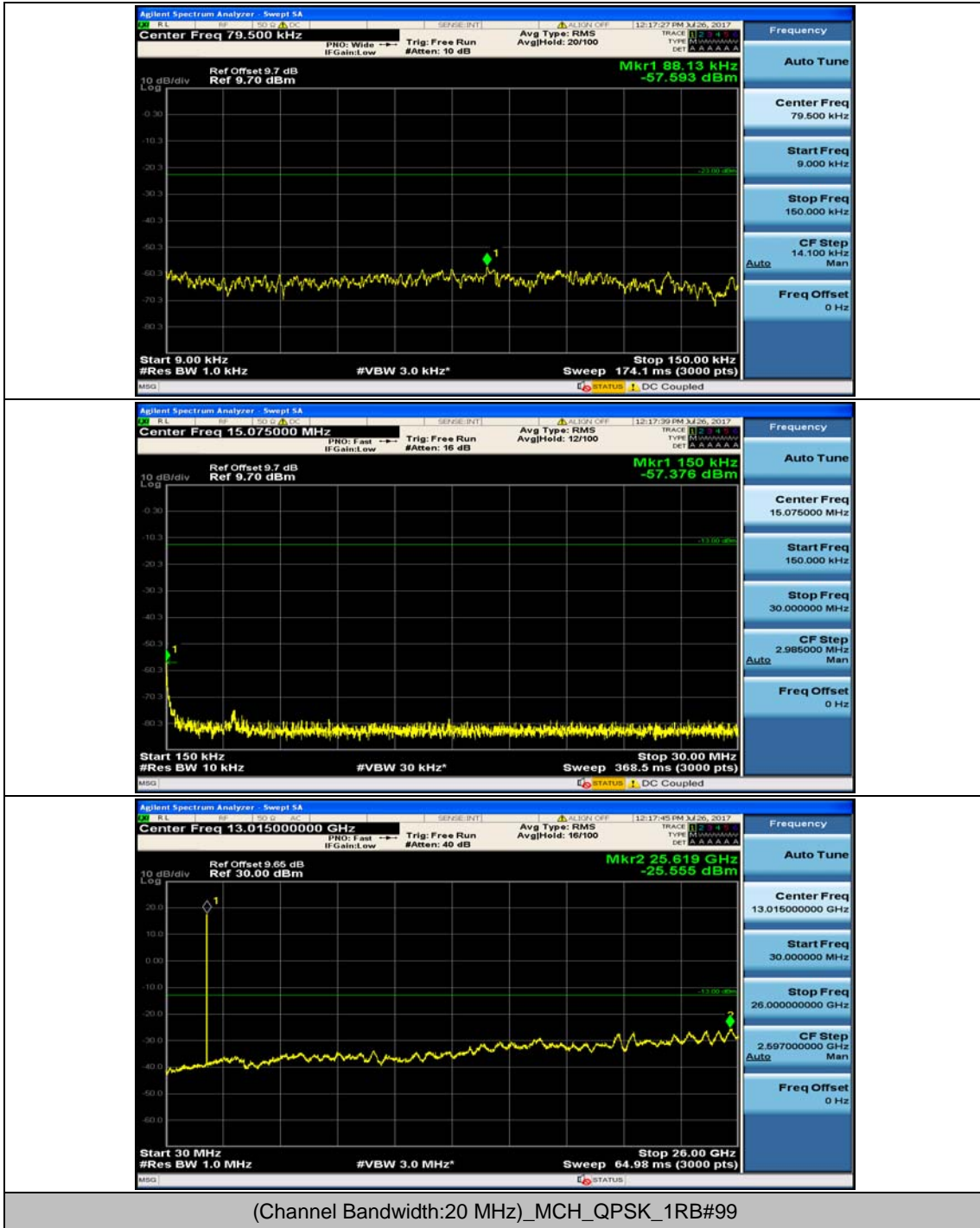


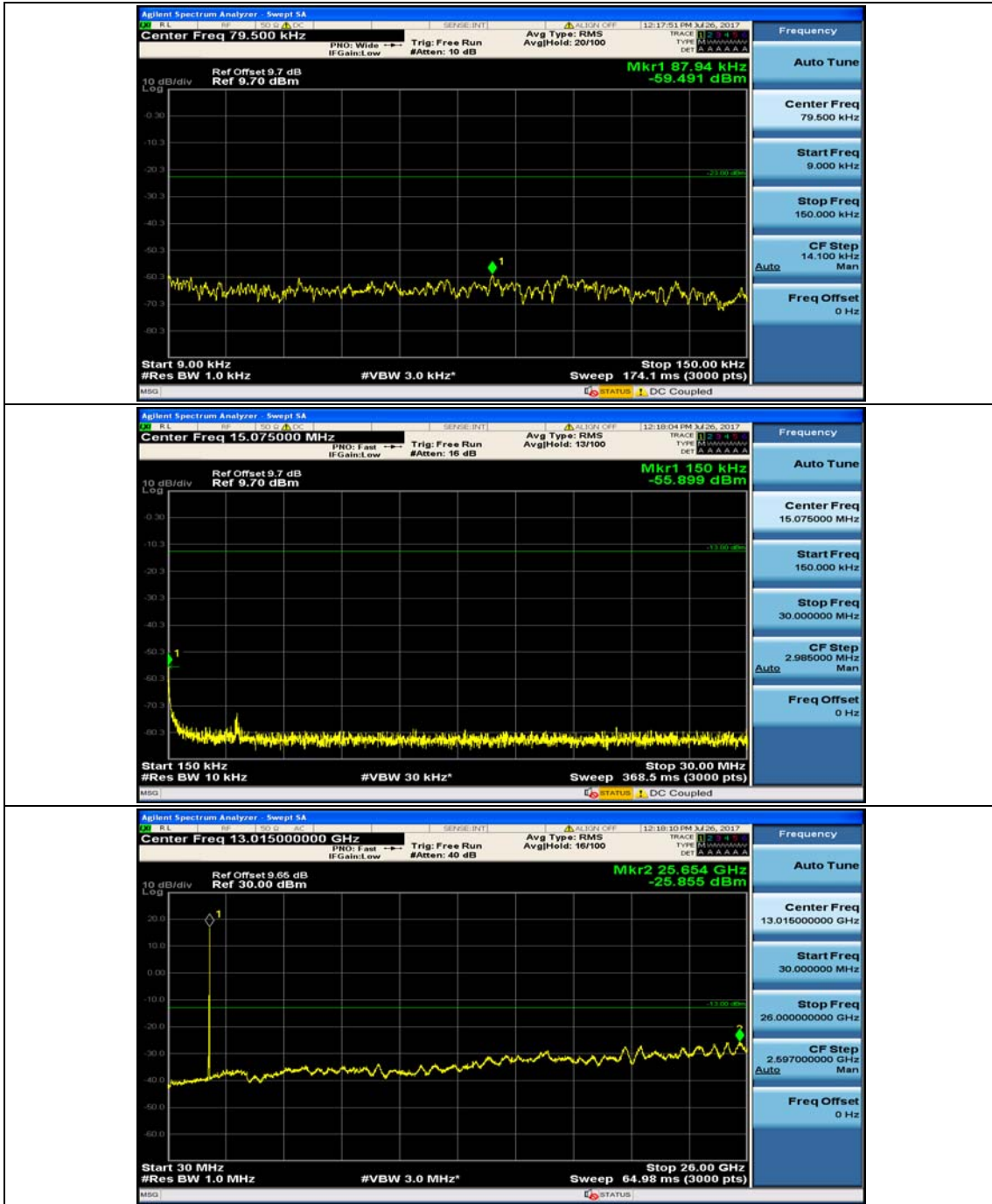


(Channel Bandwidth:20 MHz)\_MCH\_QPSK\_1RB#0



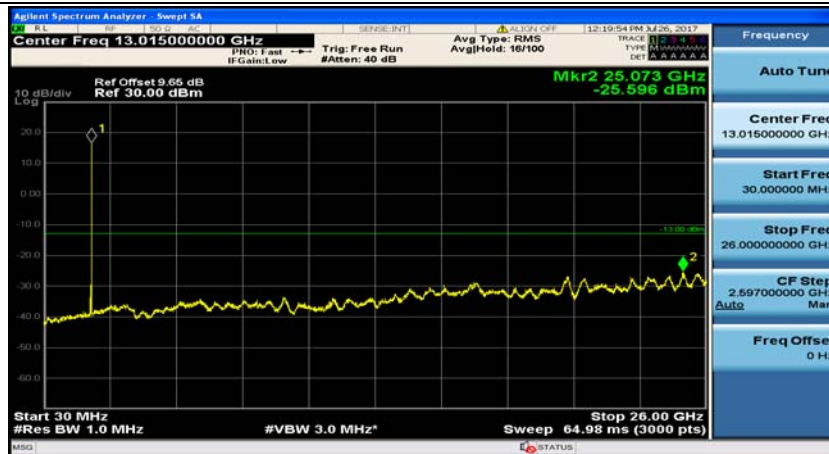
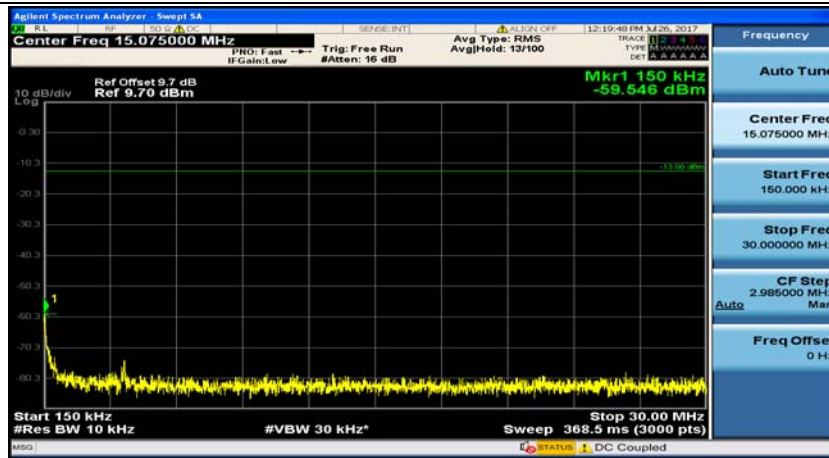
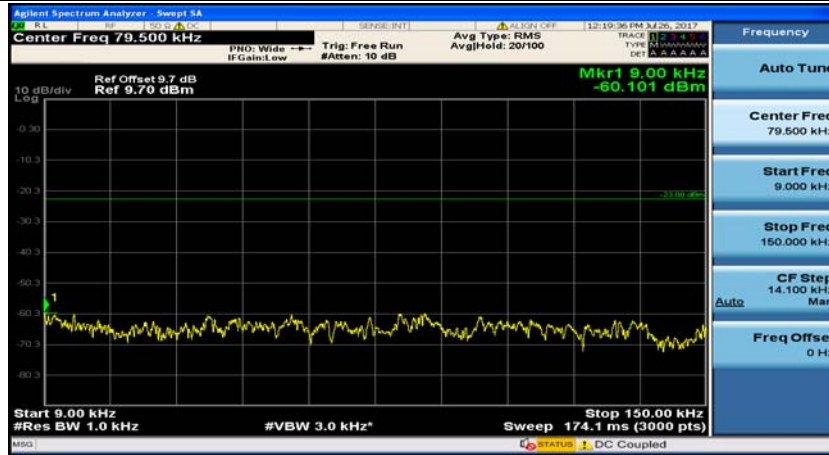
(Channel Bandwidth:20 MHz)\_MCH\_QPSK\_1RB#49



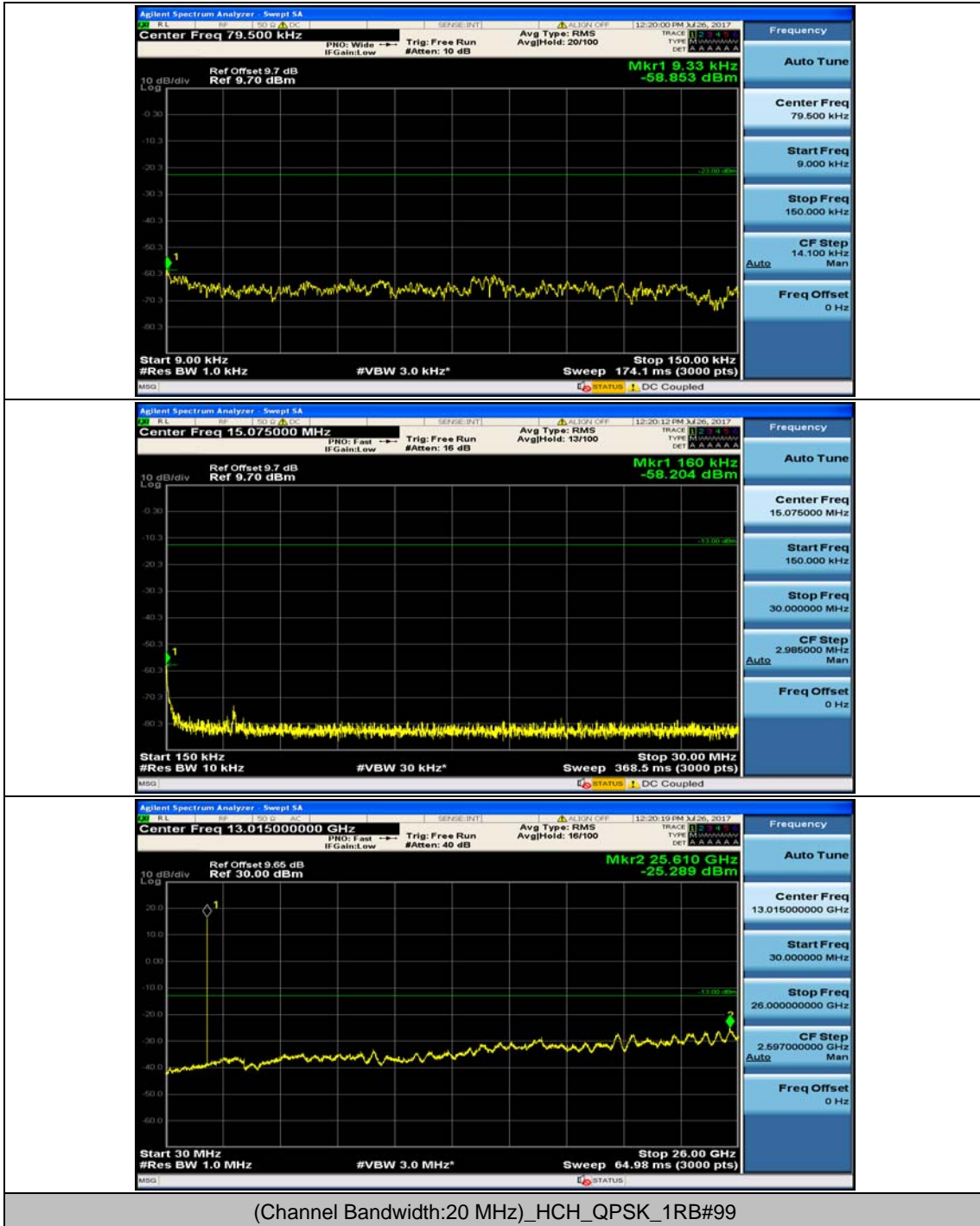


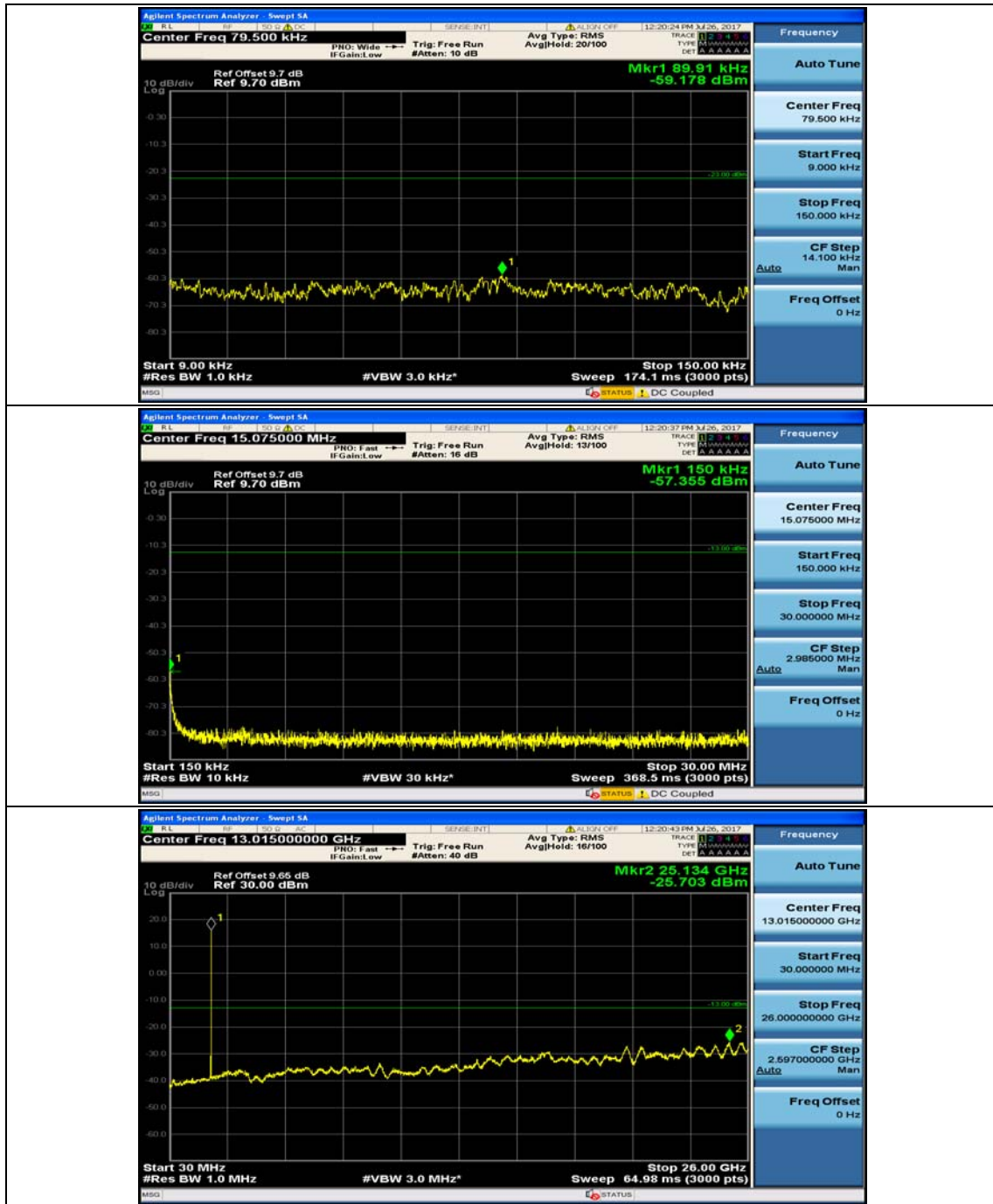


(Channel Bandwidth:20 MHz)\_HCH\_QPSK\_1RB#0

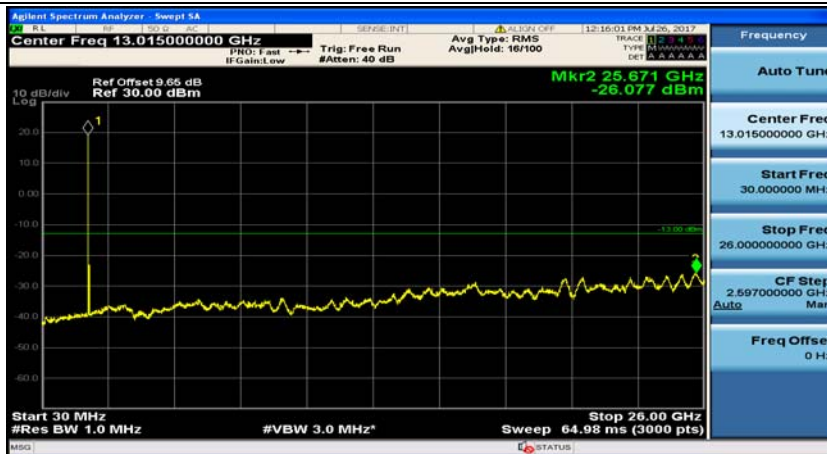
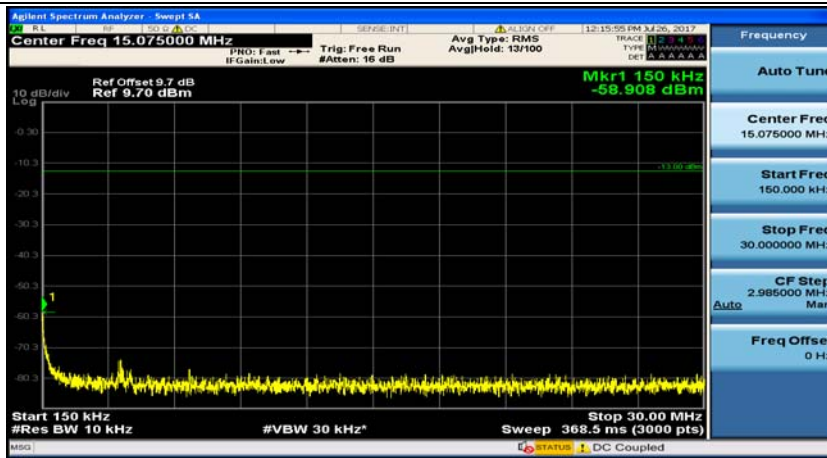
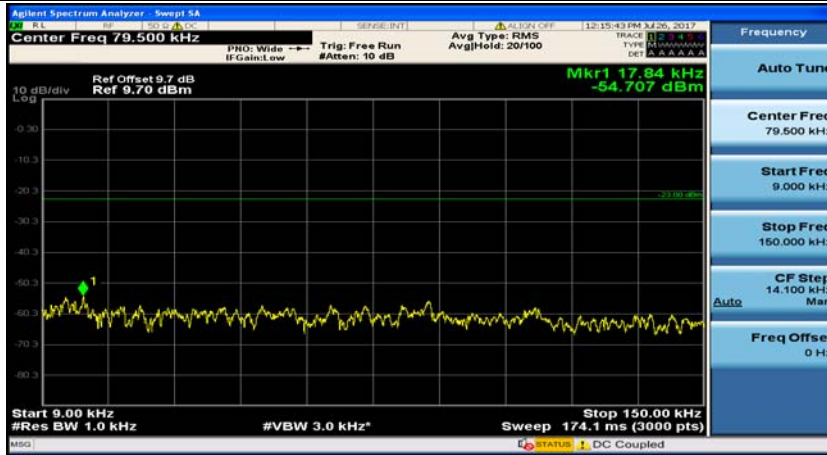


(Channel Bandwidth:20 MHz)\_HCH\_QPSK\_1RB#49

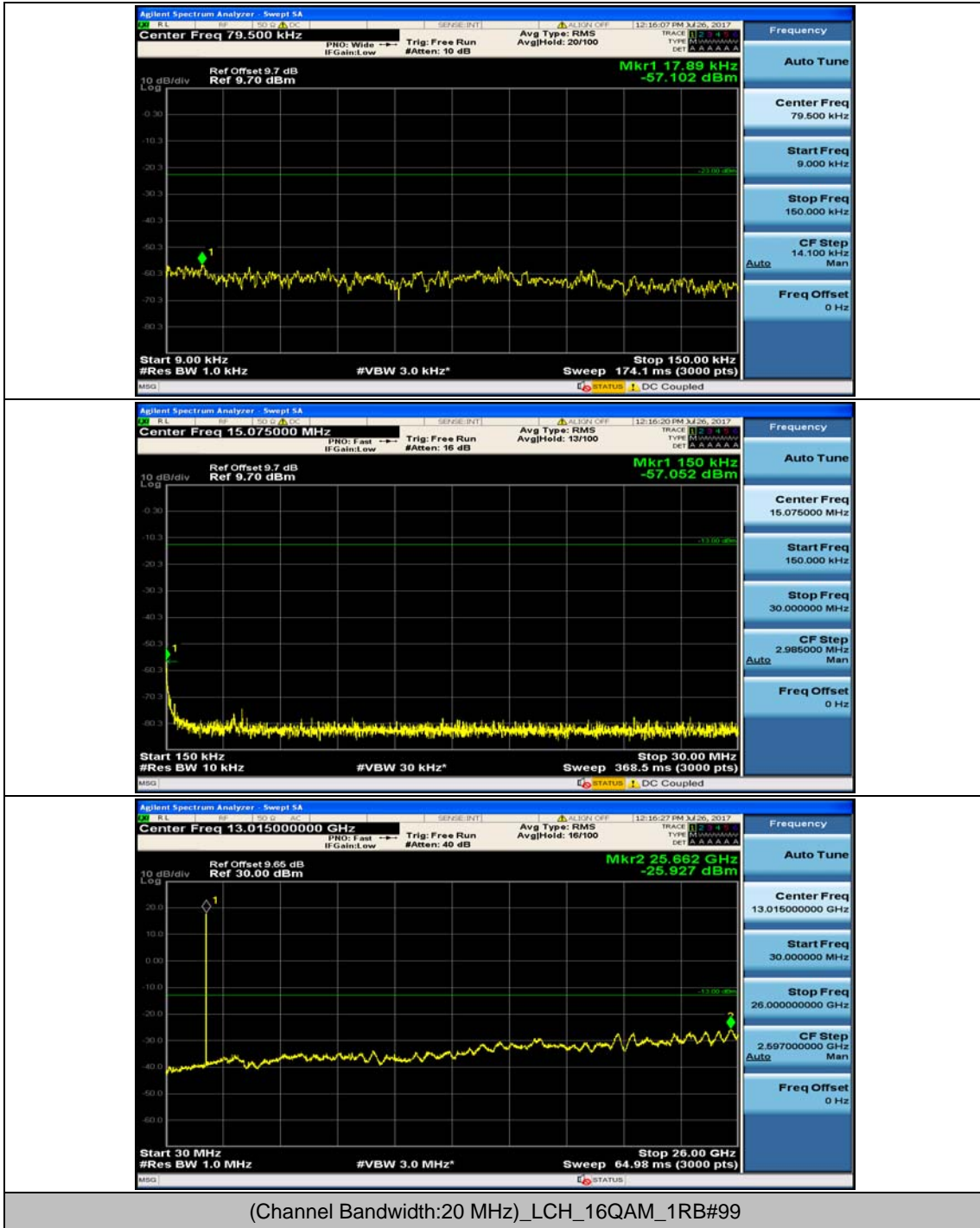




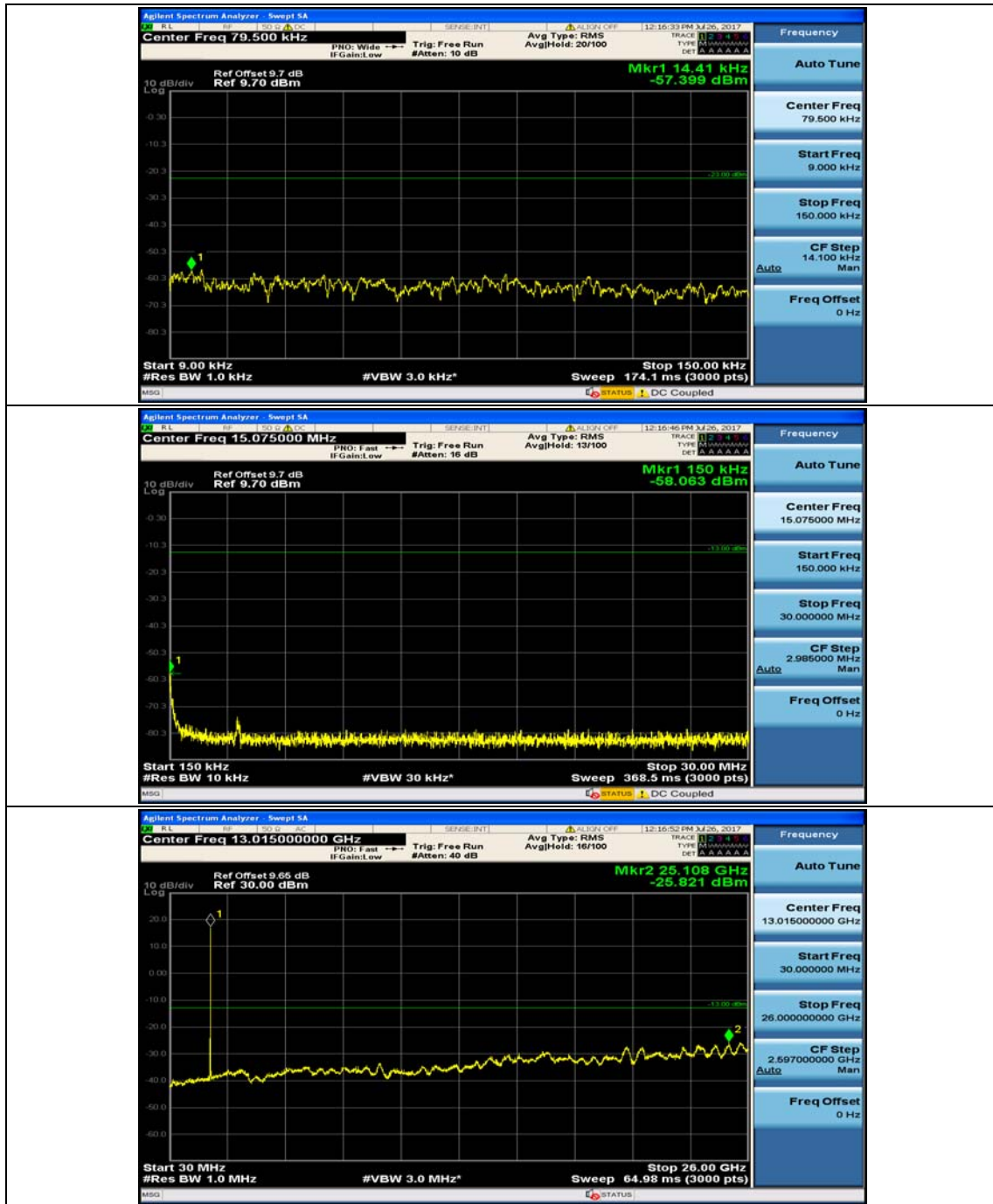
(Channel Bandwidth:20 MHz)\_LCH\_16QAM\_1RB#0



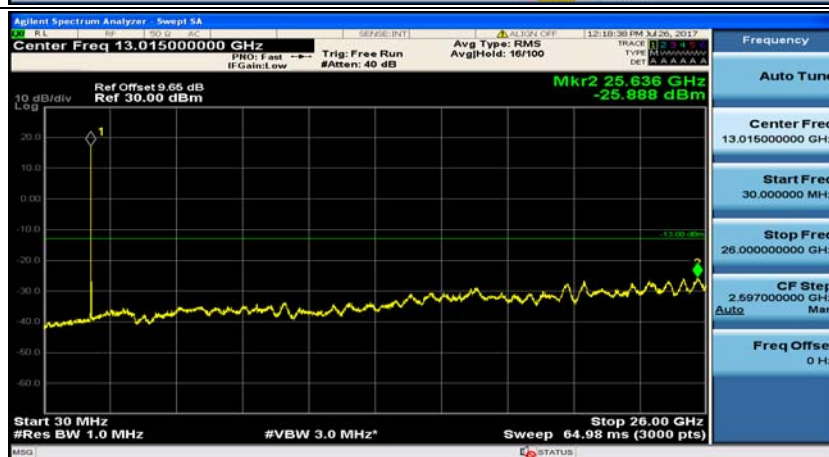
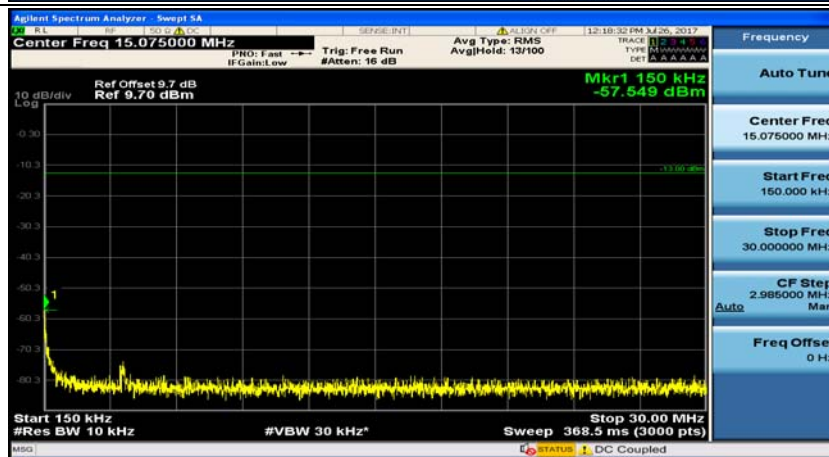
(Channel Bandwidth:20 MHz)\_LCH\_16QAM\_1RB#49



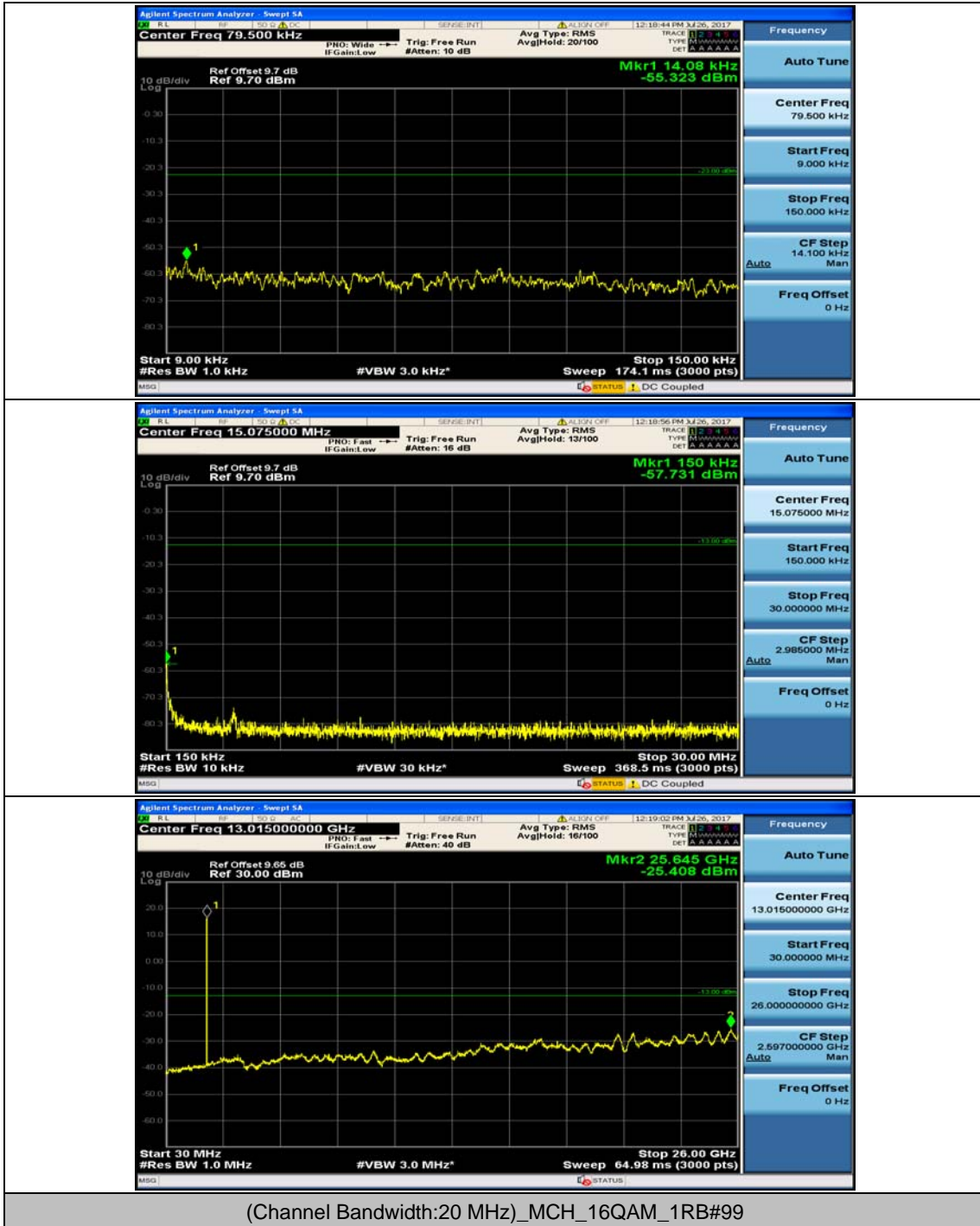


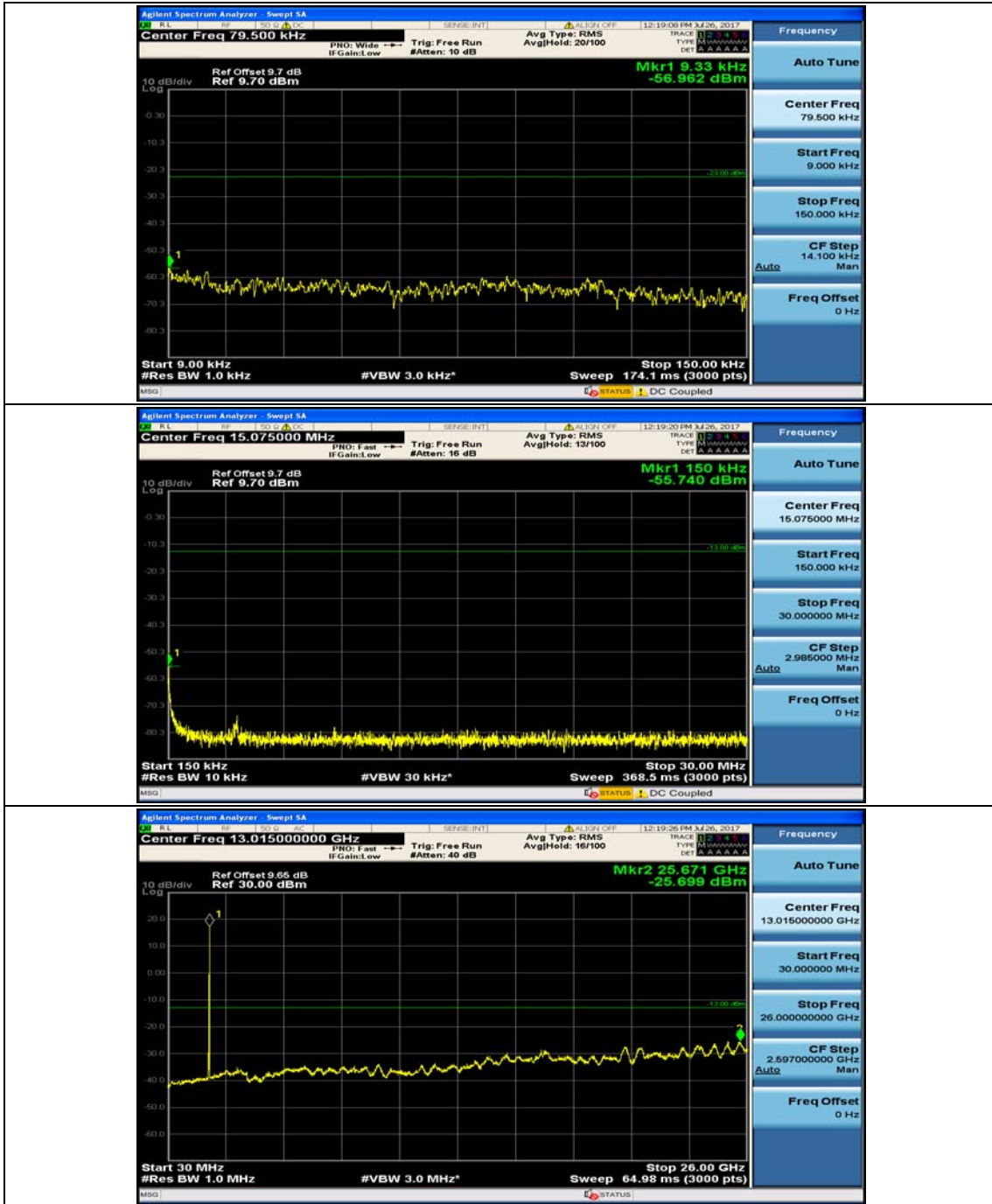


(Channel Bandwidth:20 MHz)\_MCH\_16QAM\_1RB#0

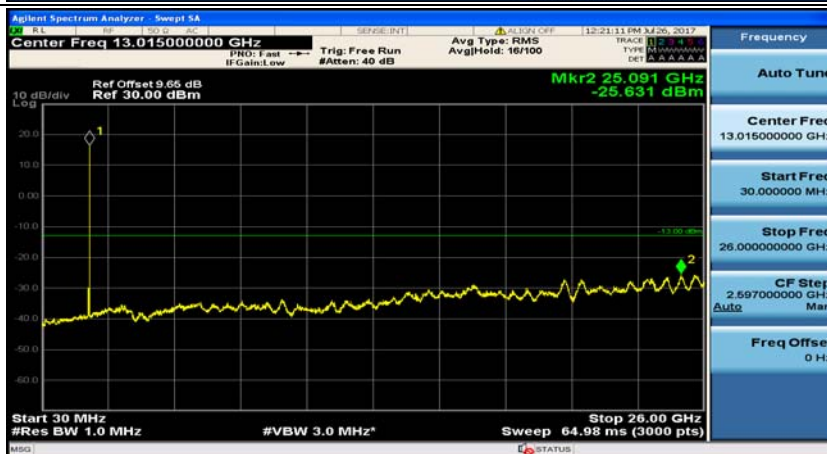
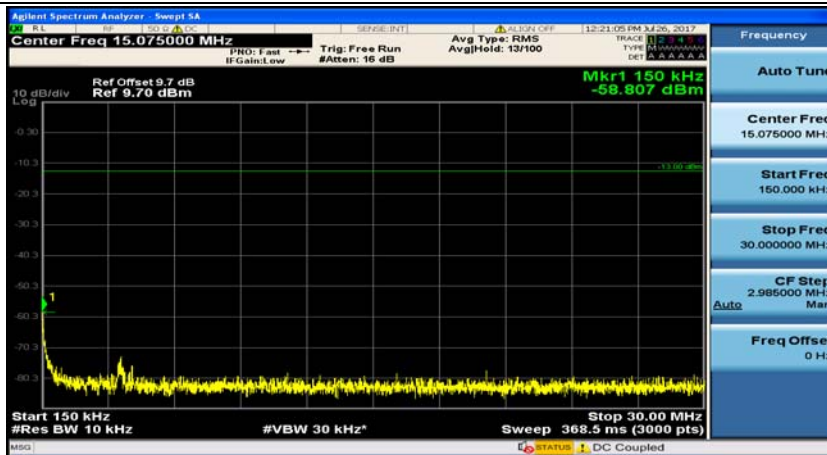
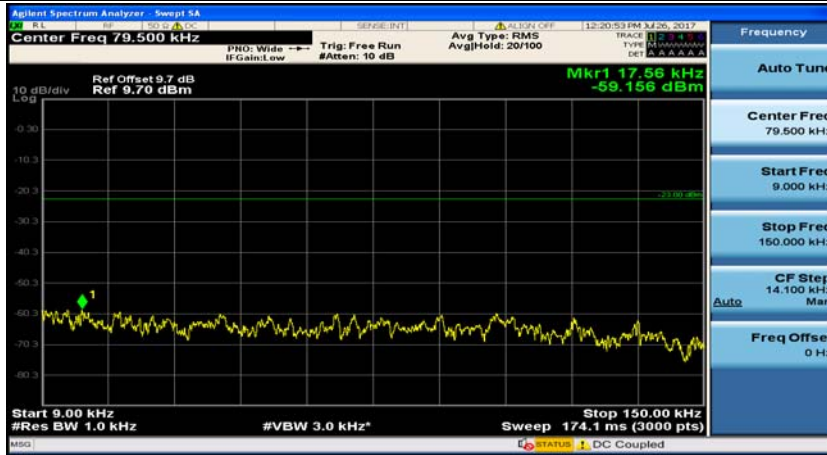


(Channel Bandwidth:20 MHz)\_MCH\_16QAM\_1RB#49



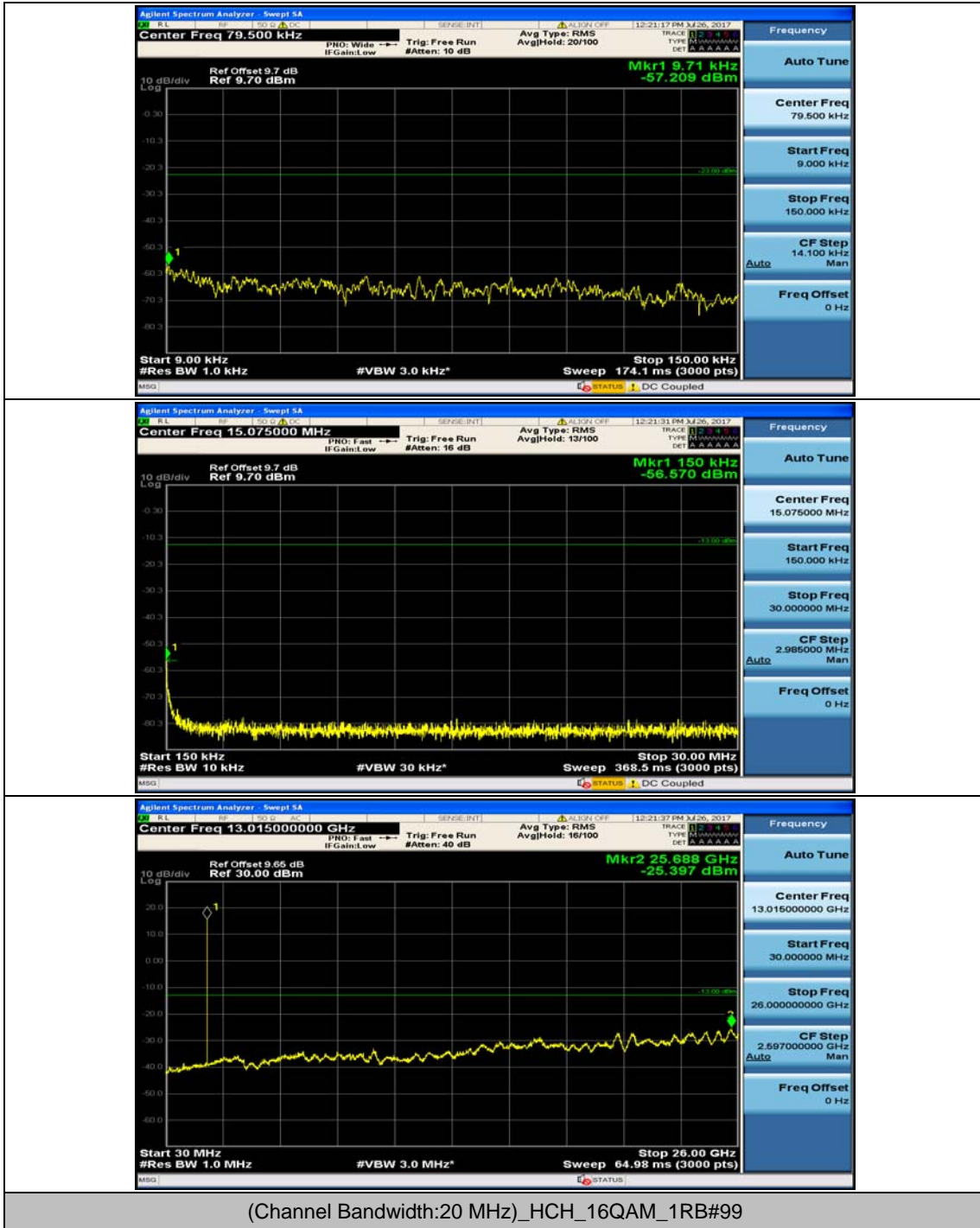


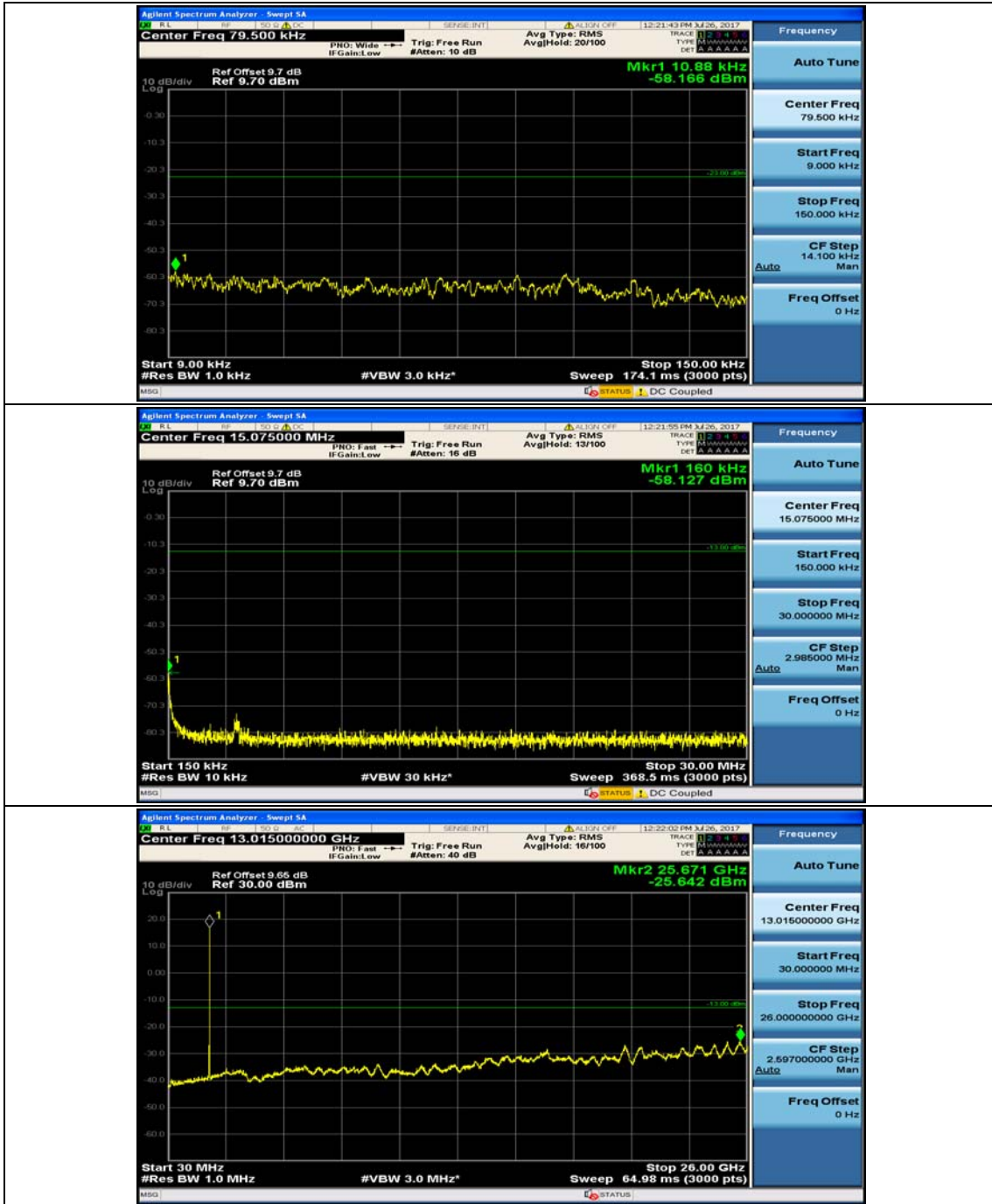
(Channel Bandwidth:20 MHz)\_HCH\_16QAM\_1RB#0



(Channel Bandwidth:20 MHz)\_HCH\_16QAM\_1RB#49







## 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	2.65	0.001425	± 2.5	PASS
		VN	TN	3.34	0.001796	± 2.5	PASS
		VH	TN	1.61	0.000866	± 2.5	PASS
	MCH	VL	TN	2.96	0.001574	± 2.5	PASS
		VN	TN	4.92	0.002617	± 2.5	PASS
		VH	TN	0.96	0.000511	± 2.5	PASS
	HCH	VL	TN	-0.35	-0.000184	± 2.5	PASS
		VN	TN	0.66	0.000347	± 2.5	PASS
		VH	TN	3.52	0.001853	± 2.5	PASS
16QAM	LCH	VL	TN	1.07	0.000575	± 2.5	PASS
		VN	TN	2.35	0.001263	± 2.5	PASS
		VH	TN	4.57	0.002457	± 2.5	PASS
	MCH	VL	TN	0.32	0.000170	± 2.5	PASS
		VN	TN	2.46	0.001309	± 2.5	PASS
		VH	TN	0.72	0.000383	± 2.5	PASS
	HCH	VL	TN	-1.51	-0.000795	± 2.5	PASS
		VN	TN	2.7	0.001421	± 2.5	PASS
		VH	TN	4.44	0.002337	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.33	0.001253	± 2.5	PASS
		VN	-20	0.51	0.000274	± 2.5	PASS
		VN	-10	-1.27	-0.000683	± 2.5	PASS
		VN	0	4.67	0.002511	± 2.5	PASS
		VN	10	2.87	0.001543	± 2.5	PASS
		VN	20	2.78	0.001495	± 2.5	PASS
		VN	30	1.2	0.000645	± 2.5	PASS
		VN	40	-1.73	-0.000930	± 2.5	PASS
	MCH	VN	-30	-1.95	-0.001037	± 2.5	PASS
		VN	-20	0.38	0.000202	± 2.5	PASS

		VN	-10	0.84	0.000447	± 2.5	PASS		
		VN	0	0.97	0.000516	± 2.5	PASS		
		VN	10	3.5	0.001862	± 2.5	PASS		
		VN	20	3.83	0.002037	± 2.5	PASS		
		VN	30	0.8	0.000426	± 2.5	PASS		
		VN	40	-0.95	-0.000505	± 2.5	PASS		
		VN	50	3.47	0.001846	± 2.5	PASS		
	HCH	VN	-30	-0.39	-0.000205	± 2.5	PASS		
		VN	-20	-0.1	-0.000053	± 2.5	PASS		
		VN	-10	-0.41	-0.000216	± 2.5	PASS		
		VN	0	1.51	0.000795	± 2.5	PASS		
		VN	10	3.64	0.001916	± 2.5	PASS		
		VN	20	1.74	0.000916	± 2.5	PASS		
		VN	30	2.31	0.001216	± 2.5	PASS		
		VN	40	0.87	0.000458	± 2.5	PASS		
		VN	50	3.87	0.002037	± 2.5	PASS		
		16QAM	LCH	VN	-30	1.19	0.000640	± 2.5	PASS
				VN	-20	4.3	0.002312	± 2.5	PASS
VN	-10			1.73	0.000930	± 2.5	PASS		
VN	0			4.64	0.002495	± 2.5	PASS		
VN	10			-1.07	-0.000575	± 2.5	PASS		
VN	20			-0.61	-0.000328	± 2.5	PASS		
VN	30			-1.41	-0.000758	± 2.5	PASS		
VN	40			1.46	0.000785	± 2.5	PASS		
VN	50			-1.77	-0.000952	± 2.5	PASS		
MCH	VN		-30	-1.37	-0.000729	± 2.5	PASS		
	VN		-20	1.96	0.001043	± 2.5	PASS		
	VN		-10	0.34	0.000181	± 2.5	PASS		
	VN		0	4.21	0.002239	± 2.5	PASS		
	VN		10	0.65	0.000346	± 2.5	PASS		
	VN		20	3.85	0.002048	± 2.5	PASS		
	VN		30	0.66	0.000351	± 2.5	PASS		
	VN		40	3.37	0.001793	± 2.5	PASS		
	VN		50	0.11	0.000059	± 2.5	PASS		
HCH	VN		-30	4.39	0.002311	± 2.5	PASS		
	VN		-20	-1.05	-0.000553	± 2.5	PASS		
	VN		-10	3.6	0.001895	± 2.5	PASS		
	VN		0	1.46	0.000768	± 2.5	PASS		
	VN		10	1.76	0.000926	± 2.5	PASS		
	VN		20	3.18	0.001674	± 2.5	PASS		
	VN		30	3.06	0.001611	± 2.5	PASS		

		VN	40	3.23	0.001700	± 2.5	PASS
		VN	50	2.63	0.001384	± 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	1.29	0.000694	± 2.5	PASS
		VN	TN	-0.3	-0.000161	± 2.5	PASS
		VH	TN	-0.27	-0.000145	± 2.5	PASS
	MCH	VL	TN	0.18	0.000096	± 2.5	PASS
		VN	TN	1.9	0.001011	± 2.5	PASS
		VH	TN	0.83	0.000441	± 2.5	PASS
	HCH	VL	TN	2.52	0.001326	± 2.5	PASS
		VN	TN	2.33	0.001226	± 2.5	PASS
		VH	TN	1.14	0.000600	± 2.5	PASS
16QAM	LCH	VL	TN	0.98	0.000527	± 2.5	PASS
		VN	TN	-1.11	-0.000597	± 2.5	PASS
		VH	TN	0.5	0.000269	± 2.5	PASS
	MCH	VL	TN	4.69	0.002495	± 2.5	PASS
		VN	TN	3.81	0.002027	± 2.5	PASS
		VH	TN	0.99	0.000527	± 2.5	PASS
	HCH	VL	TN	-0.61	-0.000321	± 2.5	PASS
		VN	TN	3.73	0.001963	± 2.5	PASS
		VH	TN	3.73	0.001963	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.99	0.000532	± 2.5	PASS
		VN	-20	-0.07	-0.000038	± 2.5	PASS
		VN	-10	0.36	0.000194	± 2.5	PASS
		VN	0	0.83	0.000446	± 2.5	PASS
		VN	10	1.06	0.000570	± 2.5	PASS
		VN	20	0.66	0.000355	± 2.5	PASS
		VN	30	3.45	0.001855	± 2.5	PASS
		VN	40	0.83	0.000446	± 2.5	PASS
		VN	50	4.06	0.002183	± 2.5	PASS
	MCH	VN	-30	3.54	0.001883	± 2.5	PASS
		VN	-20	3.24	0.001723	± 2.5	PASS
		VN	-10	2.72	0.001447	± 2.5	PASS



		VN	0	4.82	0.002564	± 2.5	PASS		
		VN	10	3.47	0.001846	± 2.5	PASS		
		VN	20	2.12	0.001128	± 2.5	PASS		
		VN	30	1.88	0.001000	± 2.5	PASS		
		VN	40	0.35	0.000186	± 2.5	PASS		
		VN	50	3.68	0.001957	± 2.5	PASS		
	HCH	VN	-30	3.94	0.002074	± 2.5	PASS		
		VN	-20	0.09	0.000047	± 2.5	PASS		
		VN	-10	0.78	0.000411	± 2.5	PASS		
		VN	0	0.99	0.000521	± 2.5	PASS		
		VN	10	1.56	0.000821	± 2.5	PASS		
		VN	20	0.49	0.000258	± 2.5	PASS		
		VN	30	2.85	0.001500	± 2.5	PASS		
		VN	40	0.23	0.000121	± 2.5	PASS		
		VN	50	1.21	0.000637	± 2.5	PASS		
		QPSK	LCH	VN	-30	0.75	0.000403	± 2.5	PASS
				VN	-20	-0.49	-0.000263	± 2.5	PASS
				VN	-10	2.62	0.001409	± 2.5	PASS
VN	0			3.49	0.001876	± 2.5	PASS		
VN	10			-1.77	-0.000952	± 2.5	PASS		
VN	20			2.65	0.001425	± 2.5	PASS		
VN	30			-0.69	-0.000371	± 2.5	PASS		
VN	40			4.72	0.002538	± 2.5	PASS		
VN	50			3.51	0.001887	± 2.5	PASS		
MCH	VN		-30	4.26	0.002266	± 2.5	PASS		
	VN		-20	-1.04	-0.000553	± 2.5	PASS		
	VN		-10	0.31	0.000165	± 2.5	PASS		
	VN		0	-0.65	-0.000346	± 2.5	PASS		
	VN		10	-0.85	-0.000452	± 2.5	PASS		
	VN		20	1.87	0.000995	± 2.5	PASS		
	VN		30	-1.87	-0.000995	± 2.5	PASS		
	VN		40	0.61	0.000324	± 2.5	PASS		
	VN		50	-1.22	-0.000649	± 2.5	PASS		
HCH	VN		-30	3.44	0.001811	± 2.5	PASS		
	VN		-20	3.76	0.001979	± 2.5	PASS		
	VN		-10	3.69	0.001942	± 2.5	PASS		
	VN		0	0.59	0.000311	± 2.5	PASS		
	VN		10	2.23	0.001174	± 2.5	PASS		
	VN		20	0.72	0.000379	± 2.5	PASS		
	VN		30	-0.43	-0.000226	± 2.5	PASS		
	VN		40	1.58	0.000832	± 2.5	PASS		

		VN	50	1.85	0.000974	± 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	-0.02	-0.000011	± 2.5	PASS
		VN	TN	1.55	0.000833	± 2.5	PASS
		VH	TN	3.5	0.001882	± 2.5	PASS
	MCH	VL	TN	-1.04	-0.000553	± 2.5	PASS
		VN	TN	-1.93	-0.001027	± 2.5	PASS
		VH	TN	-1.49	-0.000793	± 2.5	PASS
	HCH	VL	TN	0.23	0.000121	± 2.5	PASS
		VN	TN	2.16	0.001137	± 2.5	PASS
		VH	TN	4.39	0.002311	± 2.5	PASS
16QAM	LCH	VL	TN	3.17	0.001704	± 2.5	PASS
		VN	TN	0.93	0.000500	± 2.5	PASS
		VH	TN	4.21	0.002263	± 2.5	PASS
	MCH	VL	TN	-0.48	-0.000255	± 2.5	PASS
		VN	TN	-1.64	-0.000872	± 2.5	PASS
		VH	TN	3.87	0.002059	± 2.5	PASS
	HCH	VL	TN	3.84	0.002021	± 2.5	PASS
		VN	TN	-1	-0.000526	± 2.5	PASS
		VH	TN	-1.03	-0.000542	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.26	0.001753	± 2.5	PASS
		VN	-20	0.21	0.000113	± 2.5	PASS
		VN	-10	3.74	0.002011	± 2.5	PASS
		VN	0	1.78	0.000957	± 2.5	PASS
		VN	10	0.21	0.000113	± 2.5	PASS
		VN	20	0.44	0.000237	± 2.5	PASS
		VN	30	-1.69	-0.000909	± 2.5	PASS
		VN	40	1.06	0.000570	± 2.5	PASS
		VN	50	2.31	0.001242	± 2.5	PASS
	MCH	VN	-30	2.68	0.001426	± 2.5	PASS
		VN	-20	0.96	0.000511	± 2.5	PASS
		VN	-10	-1.53	-0.000814	± 2.5	PASS
		VN	0	-0.64	-0.000340	± 2.5	PASS

		VN	10	2.58	0.001372	± 2.5	PASS
		VN	20	-1.18	-0.000628	± 2.5	PASS
		VN	30	4.19	0.002229	± 2.5	PASS
		VN	40	2.88	0.001532	± 2.5	PASS
		VN	50	1.52	0.000809	± 2.5	PASS
	HCH	VN	-30	3.79	0.001995	± 2.5	PASS
		VN	-20	1.16	0.000611	± 2.5	PASS
		VN	-10	-1.06	-0.000558	± 2.5	PASS
		VN	0	2.06	0.001084	± 2.5	PASS
		VN	10	-0.44	-0.000232	± 2.5	PASS
		VN	20	-0.1	-0.000053	± 2.5	PASS
		VN	30	1.59	0.000837	± 2.5	PASS
		VN	40	4.04	0.002126	± 2.5	PASS
		VN	50	4.57	0.002405	± 2.5	PASS
		16QAM	LCH	VN	-30	-1.16	-0.000624
VN	-20			1.28	0.000688	± 2.5	PASS
VN	-10			4.22	0.002269	± 2.5	PASS
VN	0			-0.11	-0.000059	± 2.5	PASS
VN	10			4.04	0.002172	± 2.5	PASS
VN	20			-0.03	-0.000016	± 2.5	PASS
VN	30			-0.22	-0.000118	± 2.5	PASS
VN	40			4.32	0.002323	± 2.5	PASS
VN	50			3.06	0.001645	± 2.5	PASS
MCH	VN		-30	-0.34	-0.000181	± 2.5	PASS
	VN		-20	-1.46	-0.000777	± 2.5	PASS
	VN		-10	-0.7	-0.000372	± 2.5	PASS
	VN		0	3.59	0.001910	± 2.5	PASS
	VN		10	2.43	0.001293	± 2.5	PASS
	VN		20	-1.08	-0.000574	± 2.5	PASS
	VN		30	-0.79	-0.000420	± 2.5	PASS
	VN		40	4.19	0.002229	± 2.5	PASS
	VN		50	-0.4	-0.000213	± 2.5	PASS
HCH	VN		-30	3.79	0.001995	± 2.5	PASS
	VN		-20	1.29	0.000679	± 2.5	PASS
	VN		-10	4.77	0.002511	± 2.5	PASS
	VN		0	-1.13	-0.000595	± 2.5	PASS
	VN		10	0.75	0.000395	± 2.5	PASS
	VN		20	-1.49	-0.000784	± 2.5	PASS
	VN		30	-0.77	-0.000405	± 2.5	PASS
	VN		40	-1.53	-0.000805	± 2.5	PASS
	VN		50	3.56	0.001874	± 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	2.48	0.001333	± 2.5	PASS
		VN	TN	-1.46	-0.000785	± 2.5	PASS
		VH	TN	-1.32	-0.000710	± 2.5	PASS
	MCH	VL	TN	1.61	0.000856	± 2.5	PASS
		VN	TN	3.63	0.001931	± 2.5	PASS
		VH	TN	-1.16	-0.000617	± 2.5	PASS
	HCH	VL	TN	3.02	0.001589	± 2.5	PASS
		VN	TN	0.07	0.000037	± 2.5	PASS
		VH	TN	2.06	0.001084	± 2.5	PASS
16QAM	LCH	VL	TN	2.8	0.001505	± 2.5	PASS
		VN	TN	3.25	0.001747	± 2.5	PASS
		VH	TN	-0.19	-0.000102	± 2.5	PASS
	MCH	VL	TN	-0.03	-0.000016	± 2.5	PASS
		VN	TN	4.02	0.002138	± 2.5	PASS
		VH	TN	2.58	0.001372	± 2.5	PASS
	HCH	VL	TN	-1.73	-0.000911	± 2.5	PASS
		VN	TN	0.77	0.000405	± 2.5	PASS
		VH	TN	4.25	0.002237	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	-0.73	-0.000392	± 2.5	PASS
		VN	-20	-1.59	-0.000855	± 2.5	PASS
		VN	-10	-0.75	-0.000403	± 2.5	PASS
		VN	0	3.76	0.002022	± 2.5	PASS
		VN	10	-1.68	-0.000903	± 2.5	PASS
		VN	20	-2	-0.001075	± 2.5	PASS
		VN	30	-1.24	-0.000667	± 2.5	PASS
		VN	40	-0.04	-0.000022	± 2.5	PASS
		VN	50	2.23	0.001199	± 2.5	PASS
	MCH	VN	-30	1.92	0.001021	± 2.5	PASS
		VN	-20	3.52	0.001872	± 2.5	PASS
		VN	-10	3.16	0.001681	± 2.5	PASS
		VN	0	1.11	0.000590	± 2.5	PASS
		VN	10	0.11	0.000059	± 2.5	PASS
		VN	20	0.15	0.000080	± 2.5	PASS

		VN	30	-0.03	-0.000016	± 2.5	PASS
		VN	40	-1.94	-0.001032	± 2.5	PASS
		VN	50	-1.28	-0.000681	± 2.5	PASS
	HCH	VN	-30	2.33	0.001226	± 2.5	PASS
		VN	-20	1.58	0.000832	± 2.5	PASS
		VN	-10	0.97	0.000511	± 2.5	PASS
		VN	0	3.98	0.002095	± 2.5	PASS
		VN	10	-1.61	-0.000847	± 2.5	PASS
		VN	20	2.14	0.001126	± 2.5	PASS
		VN	30	2.05	0.001079	± 2.5	PASS
		VN	40	2.64	0.001389	± 2.5	PASS
		VN	50	-0.39	-0.000205	± 2.5	PASS
QPSK	LCH	VN	-30	3.11	0.001672	± 2.5	PASS
		VN	-20	4.59	0.002468	± 2.5	PASS
		VN	-10	0.18	0.000097	± 2.5	PASS
		VN	0	1.37	0.000737	± 2.5	PASS
		VN	10	2.05	0.001102	± 2.5	PASS
		VN	20	4.49	0.002414	± 2.5	PASS
		VN	30	2.65	0.001425	± 2.5	PASS
		VN	40	-1.81	-0.000973	± 2.5	PASS
	MCH	VN	50	3.26	0.001753	± 2.5	PASS
		VN	-30	3.82	0.002032	± 2.5	PASS
		VN	-20	-0.27	-0.000144	± 2.5	PASS
		VN	-10	2.42	0.001287	± 2.5	PASS
		VN	0	2.29	0.001218	± 2.5	PASS
		VN	10	-0.76	-0.000404	± 2.5	PASS
		VN	20	-1.32	-0.000702	± 2.5	PASS
		VN	30	2.79	0.001484	± 2.5	PASS
		VN	40	-0.94	-0.000500	± 2.5	PASS
	HCH	VN	50	3.02	0.001606	± 2.5	PASS
		VN	-30	-0.17	-0.000089	± 2.5	PASS
		VN	-20	4.95	0.002605	± 2.5	PASS
		VN	-10	0.08	0.000042	± 2.5	PASS
		VN	0	1.95	0.001026	± 2.5	PASS
		VN	10	-1.95	-0.001026	± 2.5	PASS
		VN	20	-0.88	-0.000463	± 2.5	PASS
VN		30	0.46	0.000242	± 2.5	PASS	
VN	40	-0.88	-0.000463	± 2.5	PASS		
VN	50	1.26	0.000663	± 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	2.46	0.001323	± 2.5	PASS
		VN	TN	2.86	0.001538	± 2.5	PASS
		VH	TN	-1.23	-0.000661	± 2.5	PASS
	MCH	VL	TN	0.88	0.000468	± 2.5	PASS
		VN	TN	0.39	0.000207	± 2.5	PASS
		VH	TN	1.61	0.000856	± 2.5	PASS
	HCH	VL	TN	3.85	0.002026	± 2.5	PASS
		VN	TN	0.55	0.000289	± 2.5	PASS
		VH	TN	0.63	0.000332	± 2.5	PASS
16QAM	LCH	VL	TN	4.98	0.002677	± 2.5	PASS
		VN	TN	1	0.000538	± 2.5	PASS
		VH	TN	4.85	0.002608	± 2.5	PASS
	MCH	VL	TN	3.35	0.001782	± 2.5	PASS
		VN	TN	-1.04	-0.000553	± 2.5	PASS
		VH	TN	2.91	0.001548	± 2.5	PASS
	HCH	VL	TN	-0.17	-0.000089	± 2.5	PASS
		VN	TN	3.56	0.001874	± 2.5	PASS
		VH	TN	3.55	0.001868	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.97	0.001059	± 2.5	PASS
		VN	-20	2.2	0.001183	± 2.5	PASS
		VN	-10	0.71	0.000382	± 2.5	PASS
		VN	0	1.09	0.000586	± 2.5	PASS
		VN	10	1.39	0.000747	± 2.5	PASS
		VN	20	1.47	0.000790	± 2.5	PASS
		VN	30	-0.65	-0.000349	± 2.5	PASS
		VN	40	-0.79	-0.000425	± 2.5	PASS
	MCH	VN	50	1.37	0.000737	± 2.5	PASS
		VN	-30	-1.42	-0.000755	± 2.5	PASS
		VN	-20	1.7	0.000904	± 2.5	PASS
		VN	-10	3.4	0.001809	± 2.5	PASS
		VN	0	-1.75	-0.000931	± 2.5	PASS
		VN	10	4.69	0.002495	± 2.5	PASS
VN	20	2.7	0.001436	± 2.5	PASS		

	VN	30	3.51	0.001867	± 2.5	PASS	
		40	-1.08	-0.000574	± 2.5	PASS	
		50	4.47	0.002378	± 2.5	PASS	
	HCH	VN	-30	2.24	0.001179	± 2.5	PASS
		VN	-20	4.45	0.002342	± 2.5	PASS
		VN	-10	4.96	0.002611	± 2.5	PASS
		VN	0	3.66	0.001926	± 2.5	PASS
		VN	10	0.26	0.000137	± 2.5	PASS
		VN	20	2.73	0.001437	± 2.5	PASS
		VN	30	0.54	0.000284	± 2.5	PASS
		VN	40	-1.74	-0.000916	± 2.5	PASS
		VN	50	-1.17	-0.000616	± 2.5	PASS
QPSK	LCH	VN	-30	1.67	0.000898	± 2.5	PASS
		VN	-20	-1.67	-0.000898	± 2.5	PASS
		VN	-10	0.05	0.000027	± 2.5	PASS
		VN	0	2.66	0.001430	± 2.5	PASS
		VN	10	1.71	0.000919	± 2.5	PASS
		VN	20	0.49	0.000263	± 2.5	PASS
		VN	30	4.46	0.002398	± 2.5	PASS
		VN	40	-1.4	-0.000753	± 2.5	PASS
		VN	50	0.42	0.000226	± 2.5	PASS
	MCH	VN	-30	4.45	0.002367	± 2.5	PASS
		VN	-20	1.78	0.000947	± 2.5	PASS
		VN	-10	2.15	0.001144	± 2.5	PASS
		VN	0	3.86	0.002053	± 2.5	PASS
		VN	10	-1.97	-0.001048	± 2.5	PASS
		VN	20	0.53	0.000282	± 2.5	PASS
		VN	30	3.2	0.001702	± 2.5	PASS
		VN	40	-1.61	-0.000856	± 2.5	PASS
		VN	50	1.05	0.000559	± 2.5	PASS
	HCH	VN	-30	3.76	0.001979	± 2.5	PASS
		VN	-20	2.35	0.001237	± 2.5	PASS
		VN	-10	-1.61	-0.000847	± 2.5	PASS
		VN	0	0.81	0.000426	± 2.5	PASS
		VN	10	1.74	0.000916	± 2.5	PASS
		VN	20	0.52	0.000274	± 2.5	PASS
		VN	30	4.23	0.002226	± 2.5	PASS
		VN	40	-1.68	-0.000884	± 2.5	PASS
		VN	50	-1.43	-0.000753	± 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	0.86	0.000462	± 2.5	PASS
		VN	TN	4.91	0.002640	± 2.5	PASS
		VH	TN	3.43	0.001844	± 2.5	PASS
	MCH	VL	TN	4.64	0.002468	± 2.5	PASS
		VN	TN	3.79	0.002016	± 2.5	PASS
		VH	TN	-2	-0.001064	± 2.5	PASS
	HCH	VL	TN	3.99	0.002100	± 2.5	PASS
		VN	TN	-0.67	-0.000353	± 2.5	PASS
		VH	TN	1.33	0.000700	± 2.5	PASS
16QAM	LCH	VL	TN	-1.63	-0.000876	± 2.5	PASS
		VN	TN	-1.29	-0.000694	± 2.5	PASS
		VH	TN	4.55	0.002446	± 2.5	PASS
	MCH	VL	TN	-1.76	-0.000936	± 2.5	PASS
		VN	TN	1.04	0.000553	± 2.5	PASS
		VH	TN	-1.68	-0.000894	± 2.5	PASS
	HCH	VL	TN	-1.14	-0.000600	± 2.5	PASS
		VN	TN	-0.44	-0.000232	± 2.5	PASS
		VH	TN	2.83	0.001489	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.61	-0.000328	± 2.5	PASS
		VN	-20	-1.92	-0.001032	± 2.5	PASS
		VN	-10	1	0.000538	± 2.5	PASS
		VN	0	1.19	0.000640	± 2.5	PASS
		VN	10	-1.51	-0.000812	± 2.5	PASS
		VN	20	-1.18	-0.000634	± 2.5	PASS
		VN	30	-1.24	-0.000667	± 2.5	PASS
		VN	40	3.89	0.002091	± 2.5	PASS
		VN	50	1.56	0.000839	± 2.5	PASS
	MCH	VN	-30	-0.13	-0.000069	± 2.5	PASS
		VN	-20	2.04	0.001085	± 2.5	PASS
		VN	-10	4.13	0.002197	± 2.5	PASS
		VN	0	-1.81	-0.000963	± 2.5	PASS
		VN	10	0.47	0.000250	± 2.5	PASS
		VN	20	4.86	0.002585	± 2.5	PASS

		VN	30	2.78	0.001479	± 2.5	PASS
		VN	40	1.46	0.000777	± 2.5	PASS
		VN	50	1.26	0.000670	± 2.5	PASS
	HCH	VN	-30	0.97	0.000511	± 2.5	PASS
		VN	-20	4.2	0.002211	± 2.5	PASS
		VN	-10	2.85	0.001500	± 2.5	PASS
		VN	0	2.96	0.001558	± 2.5	PASS
		VN	10	-1.88	-0.000989	± 2.5	PASS
		VN	20	-0.48	-0.000253	± 2.5	PASS
		VN	30	2.29	0.001205	± 2.5	PASS
		VN	40	4.37	0.002300	± 2.5	PASS
		VN	50	3.54	0.001863	± 2.5	PASS
QPSK	LCH	VN	-30	-1.33	-0.000715	± 2.5	PASS
		VN	-20	2.67	0.001435	± 2.5	PASS
		VN	-10	3.57	0.001919	± 2.5	PASS
		VN	0	0.44	0.000237	± 2.5	PASS
		VN	10	1.34	0.000720	± 2.5	PASS
		VN	20	-0.62	-0.000333	± 2.5	PASS
		VN	30	1.86	0.001000	± 2.5	PASS
		VN	40	1.14	0.000613	± 2.5	PASS
		VN	50	1.08	0.000581	± 2.5	PASS
	MCH	VN	-30	3.78	0.002011	± 2.5	PASS
		VN	-20	0.16	0.000085	± 2.5	PASS
		VN	-10	2.93	0.001559	± 2.5	PASS
		VN	0	0.26	0.000138	± 2.5	PASS
		VN	10	0.74	0.000394	± 2.5	PASS
		VN	20	4.57	0.002431	± 2.5	PASS
		VN	30	1.47	0.000782	± 2.5	PASS
		VN	40	4.29	0.002282	± 2.5	PASS
		VN	50	-0.25	-0.000133	± 2.5	PASS
	HCH	VN	-30	-0.38	-0.000200	± 2.5	PASS
		VN	-20	0.44	0.000232	± 2.5	PASS
		VN	-10	4.74	0.002495	± 2.5	PASS
		VN	0	0.46	0.000242	± 2.5	PASS
		VN	10	2.88	0.001516	± 2.5	PASS
		VN	20	-0.83	-0.000437	± 2.5	PASS
VN		30	-0.75	-0.000395	± 2.5	PASS	
VN		40	-1.89	-0.000995	± 2.5	PASS	
VN	50	0.9	0.000474	± 2.5	PASS		