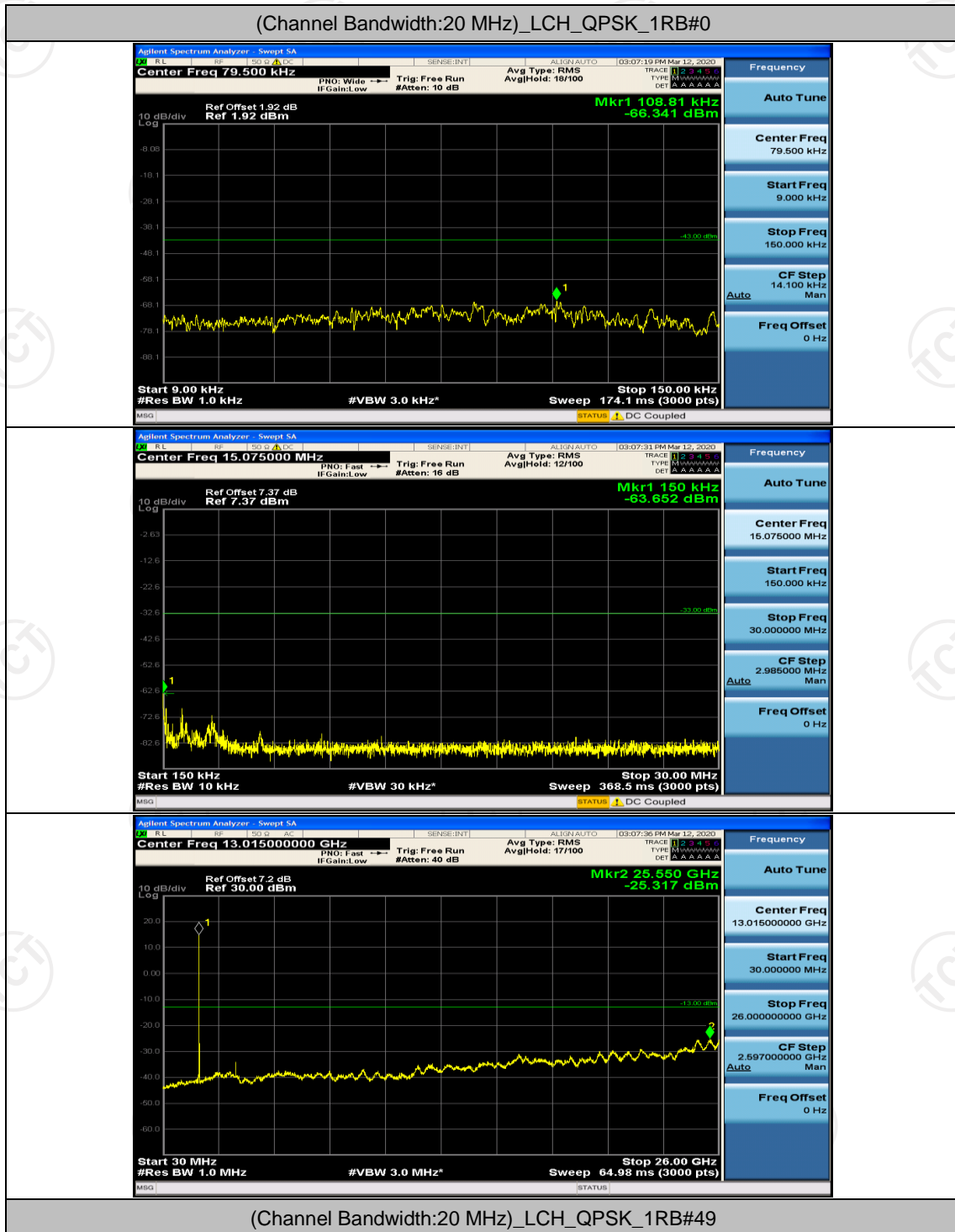
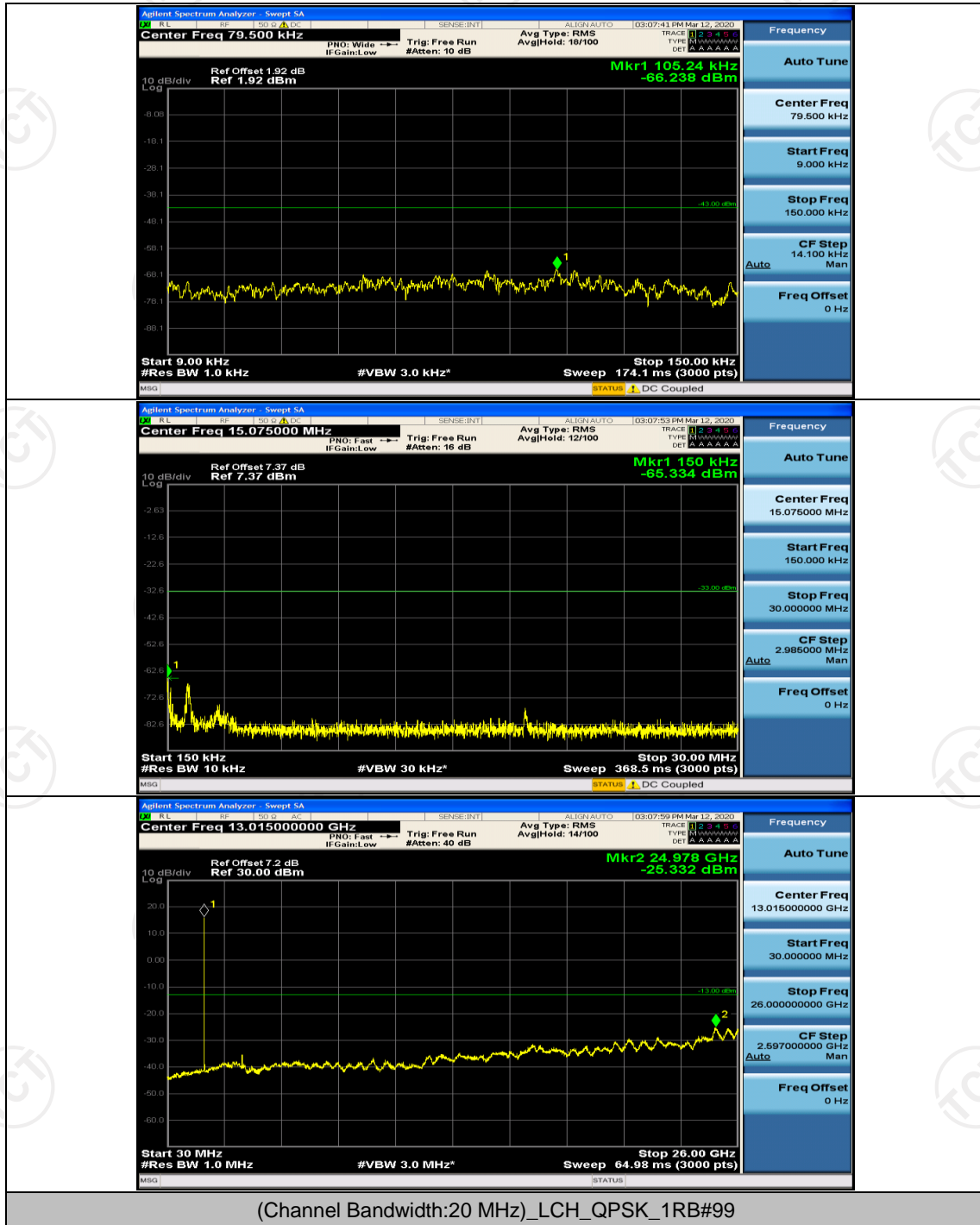
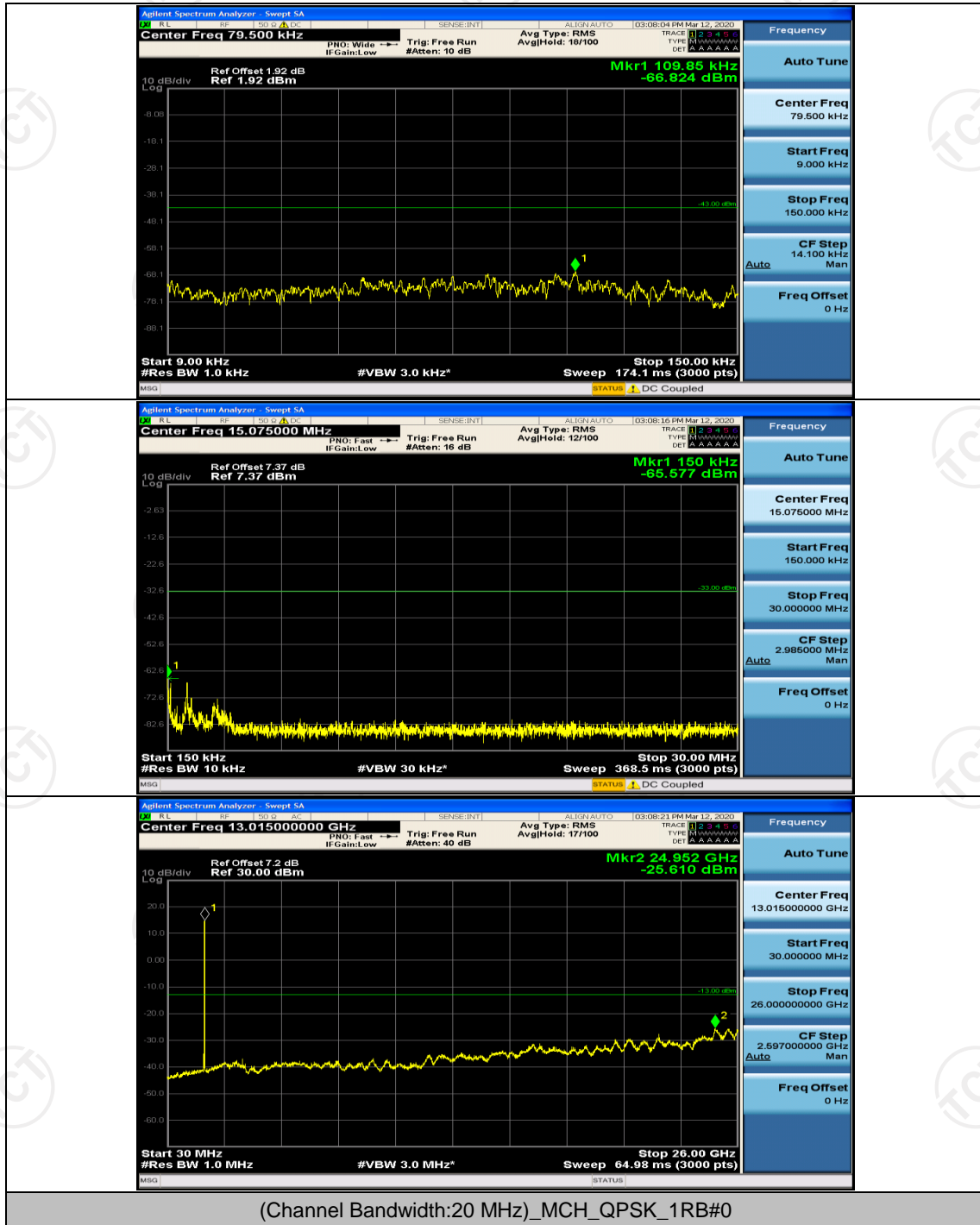


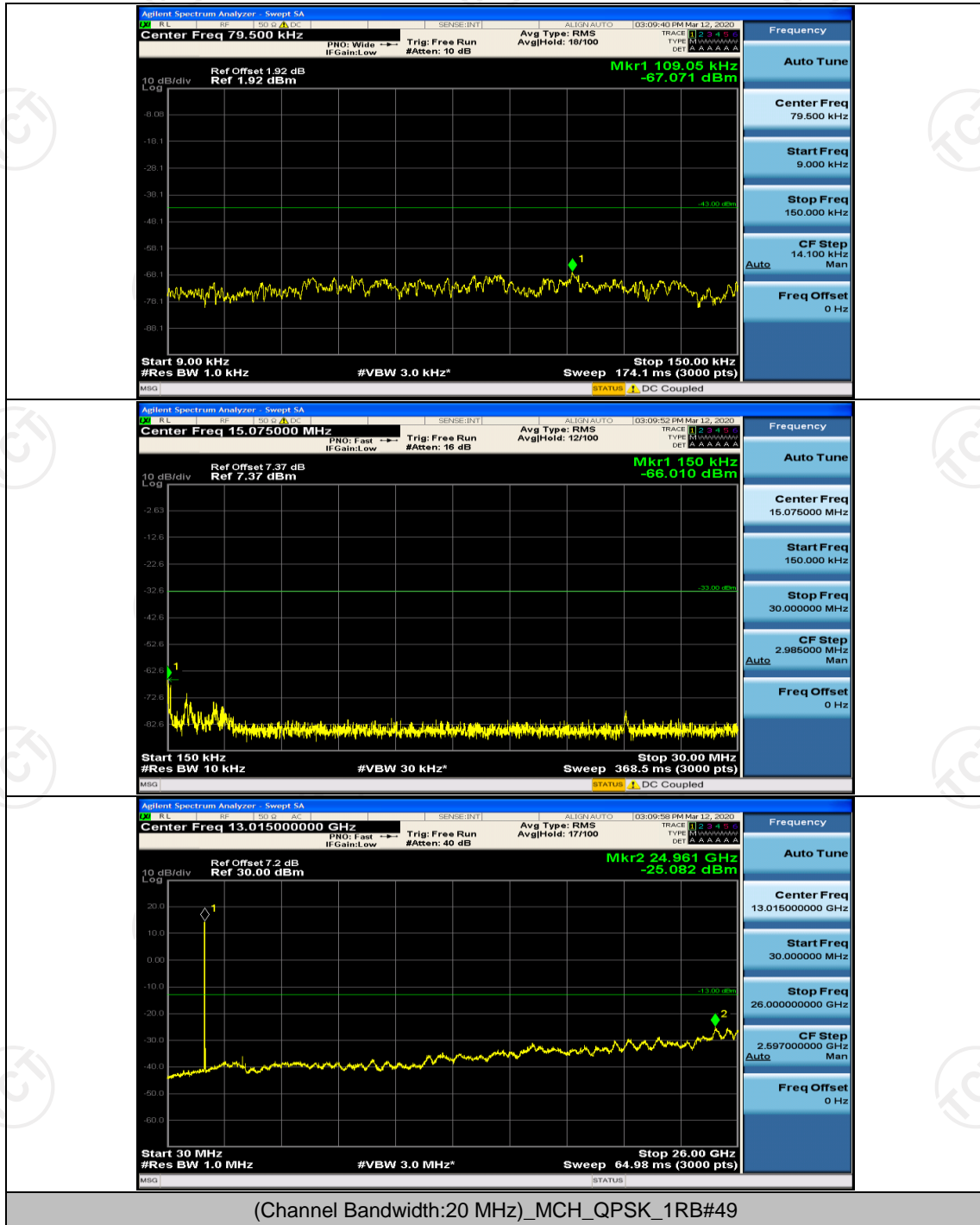


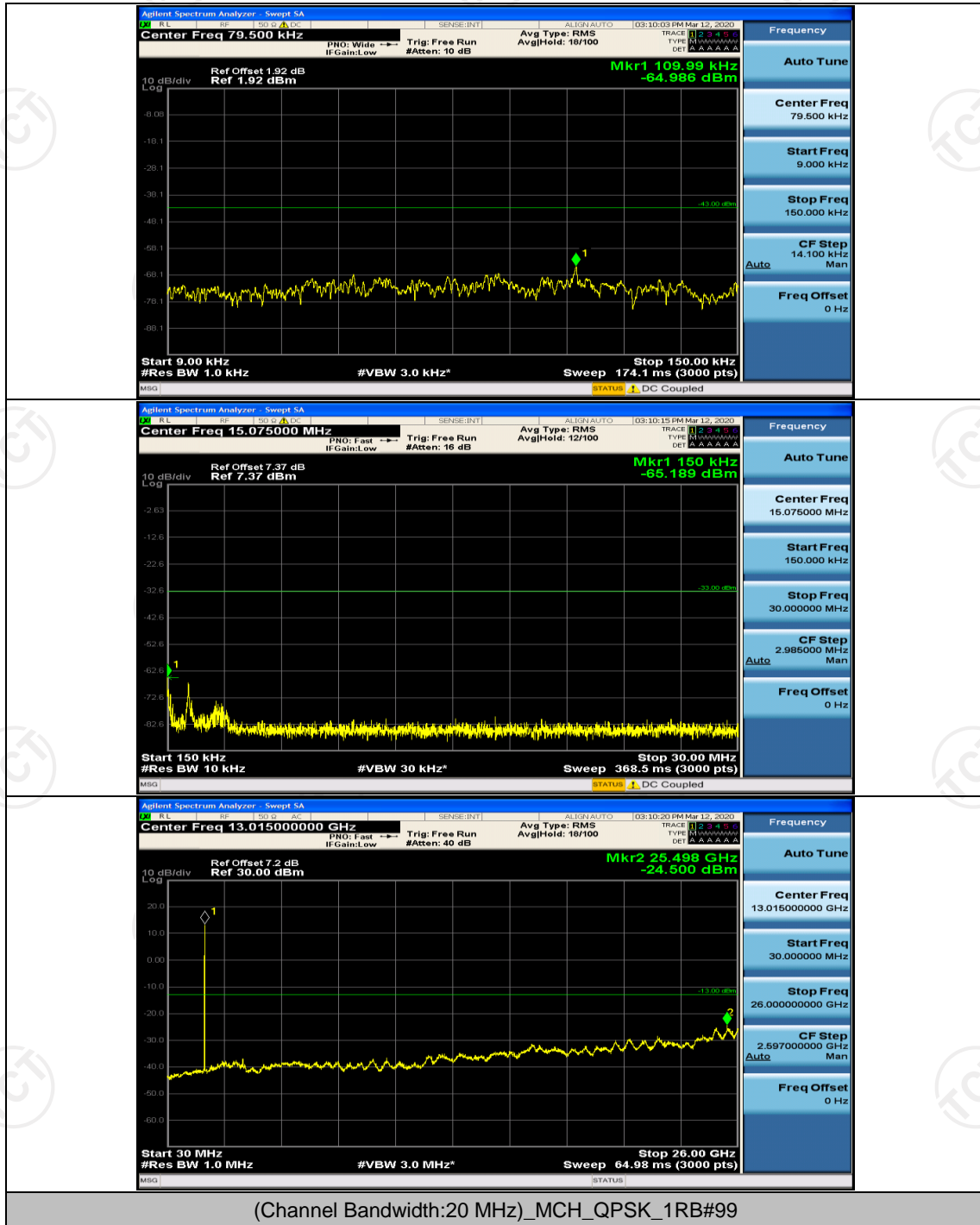
## Channel Bandwidth: 20 MHz

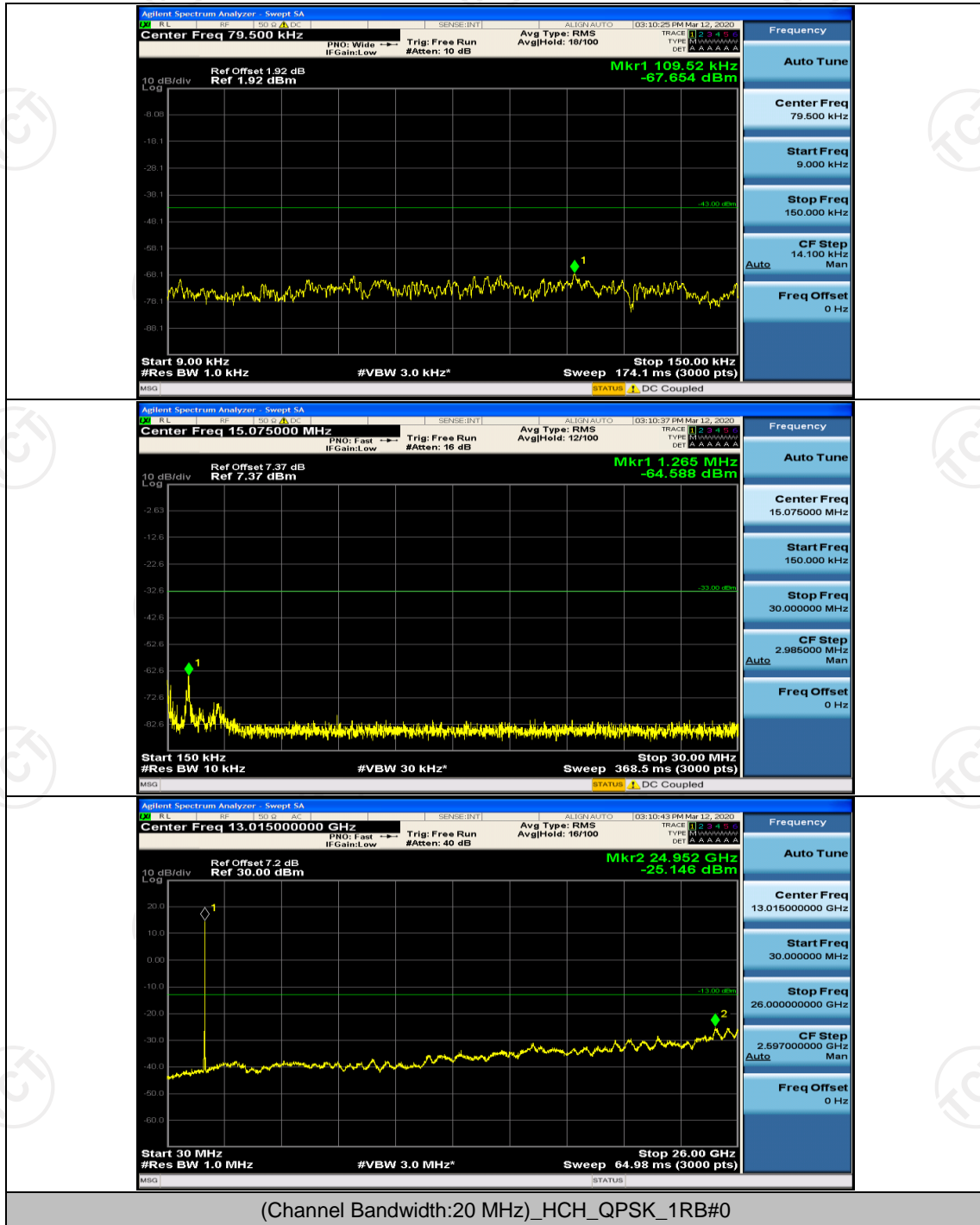


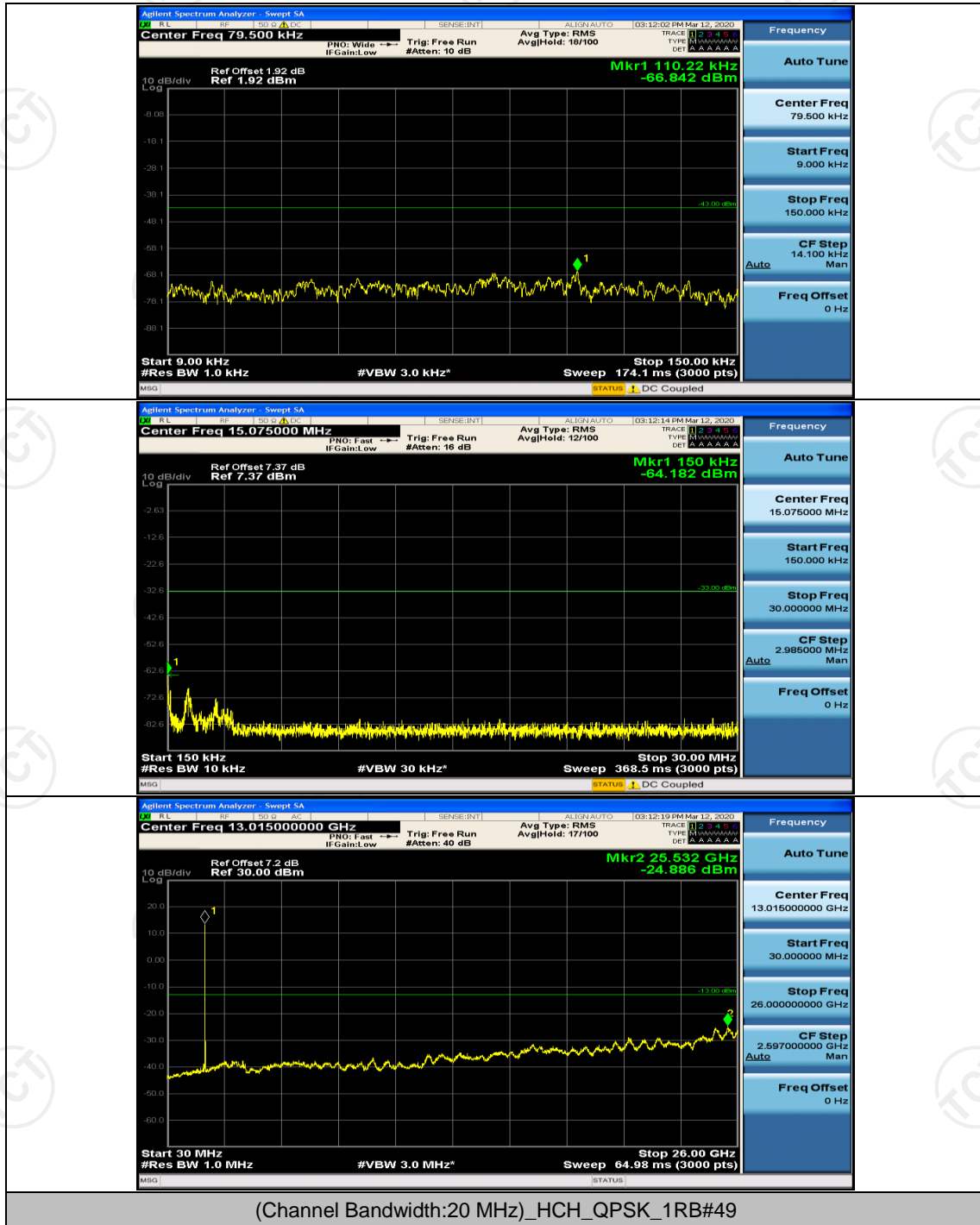


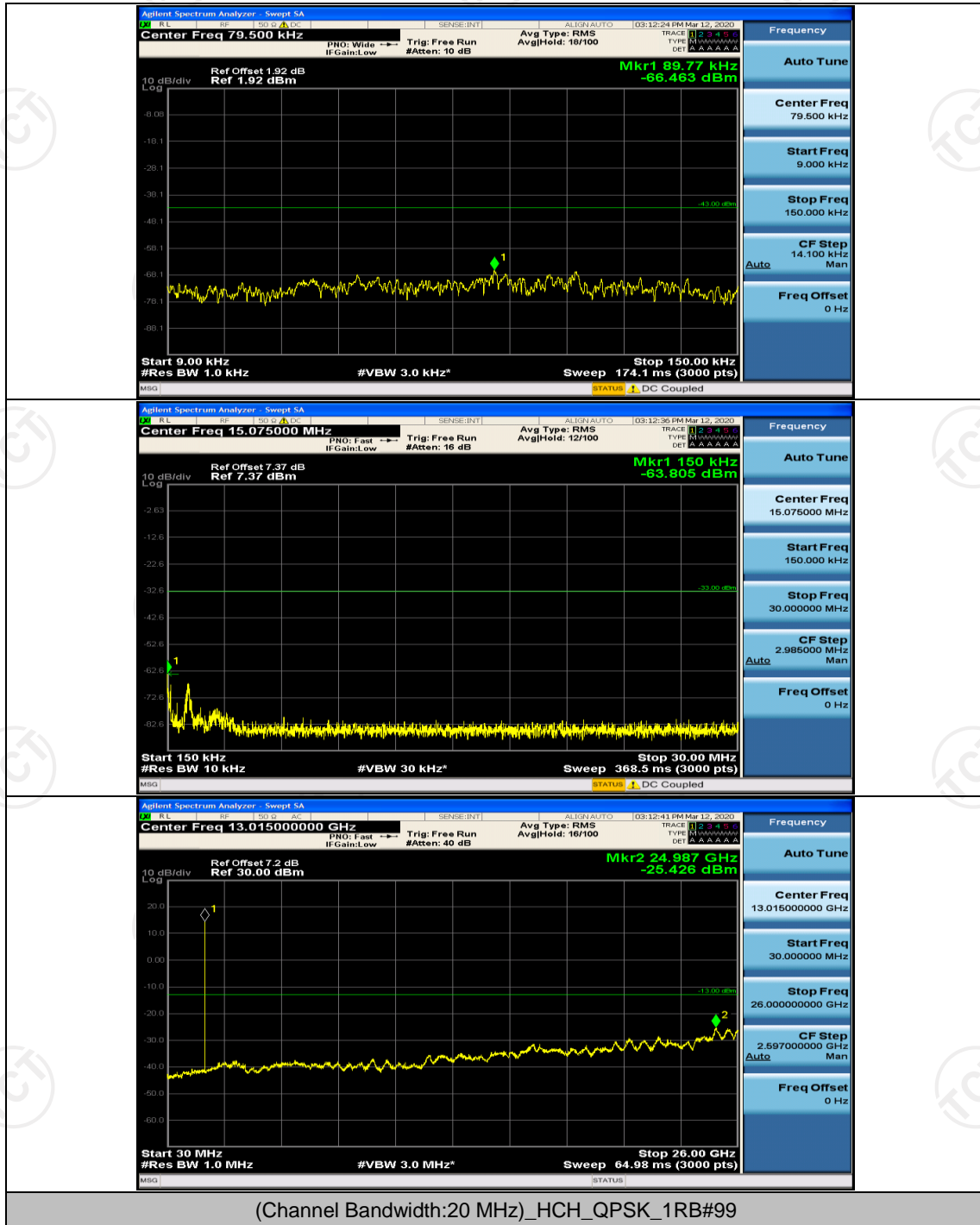




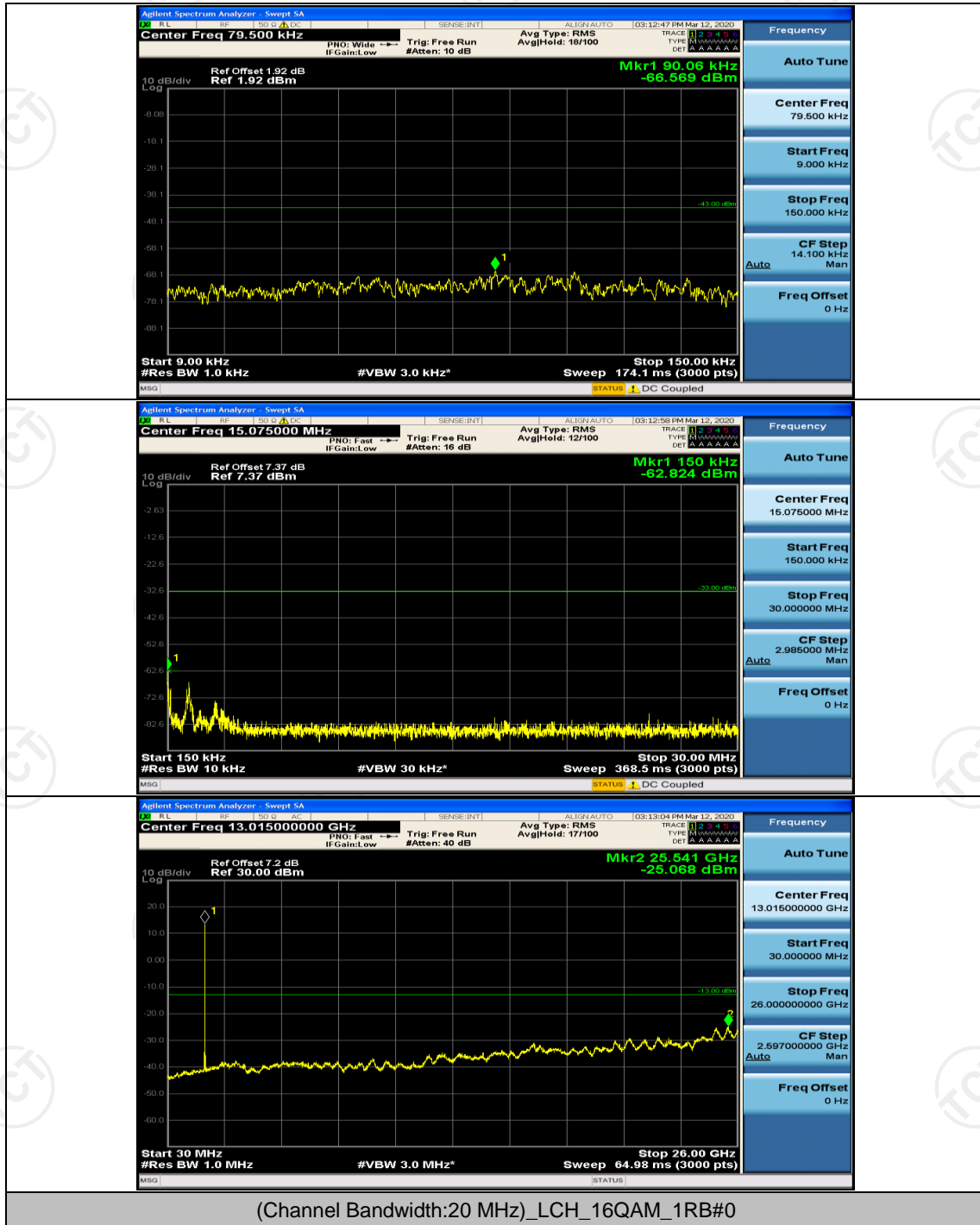


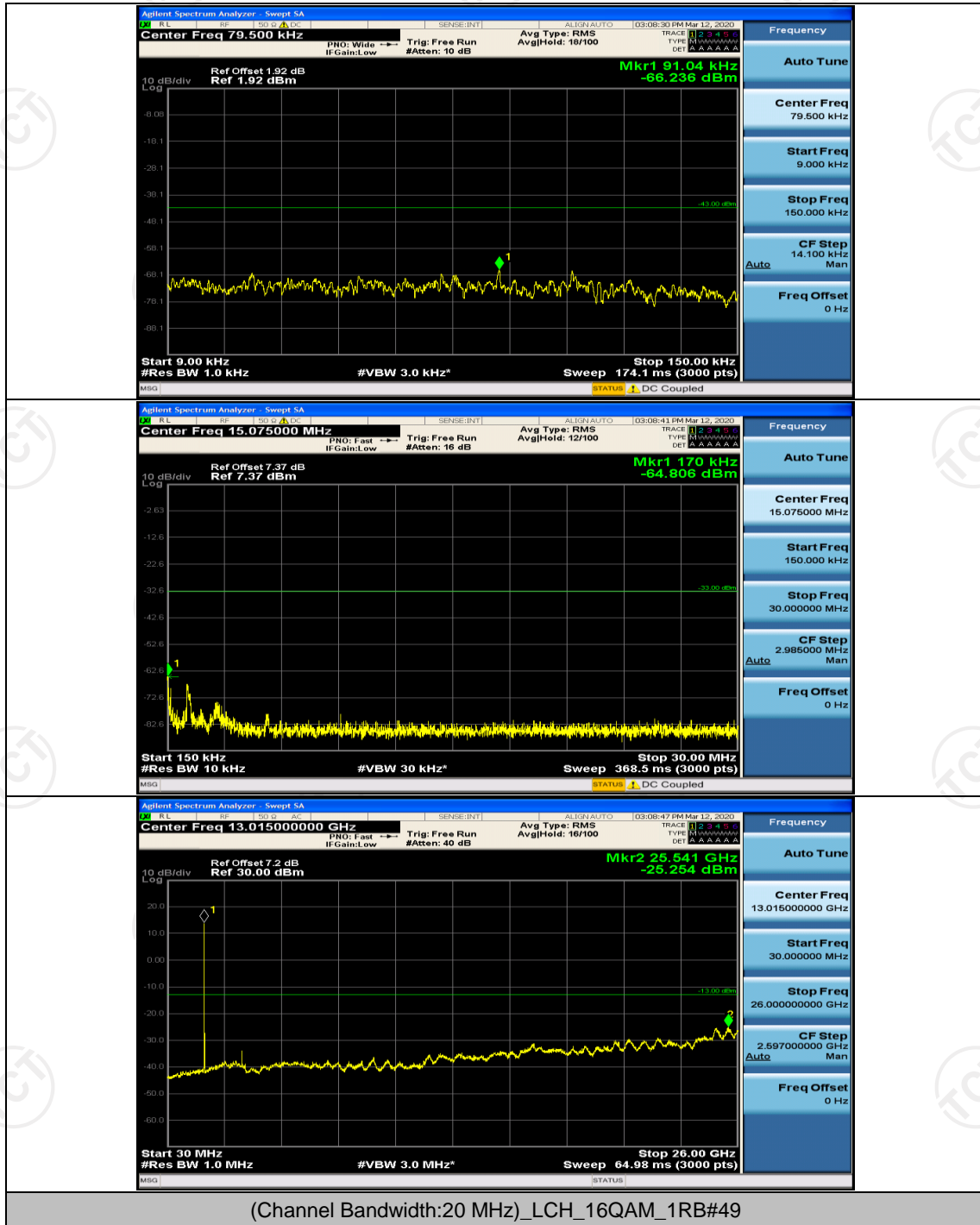


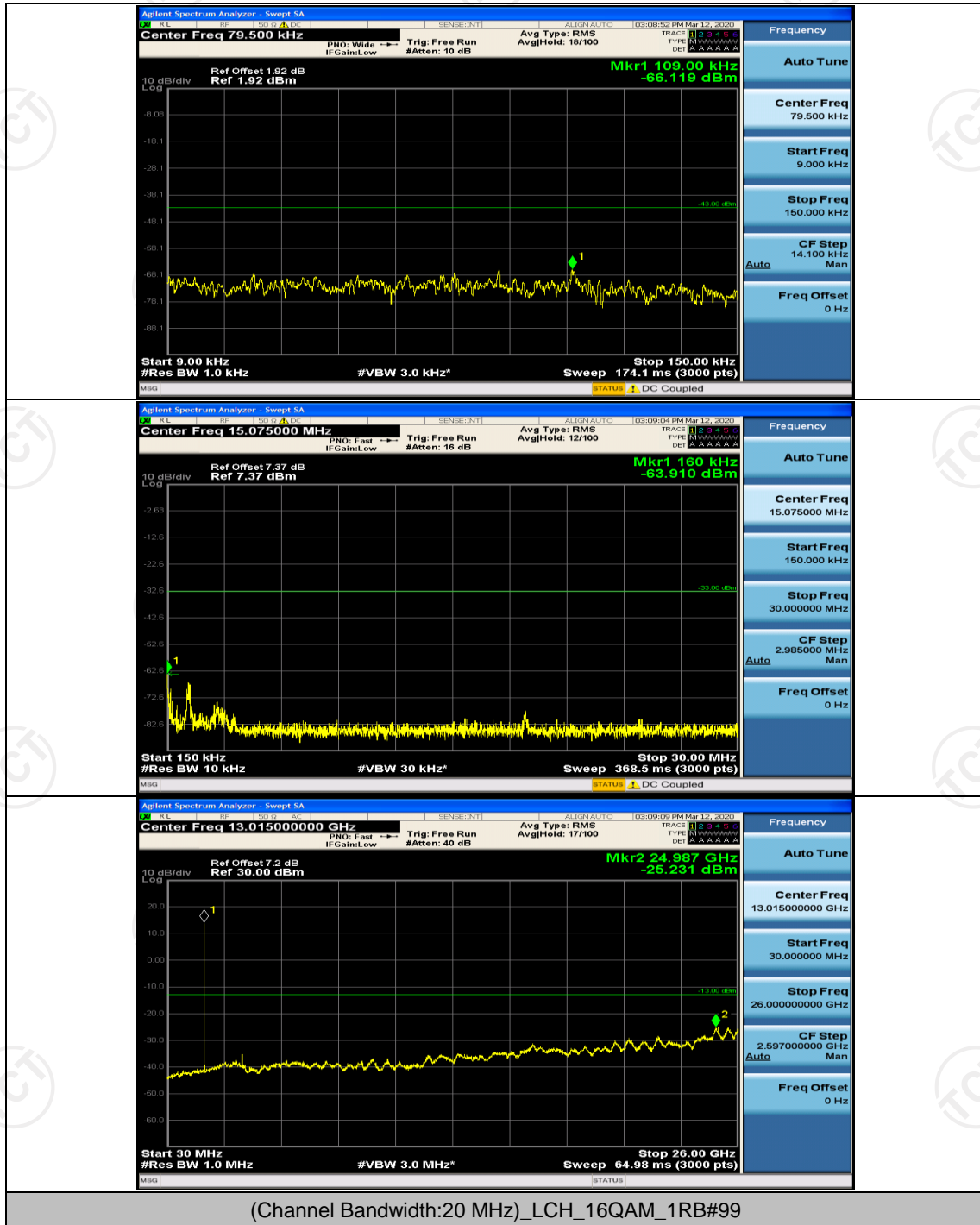


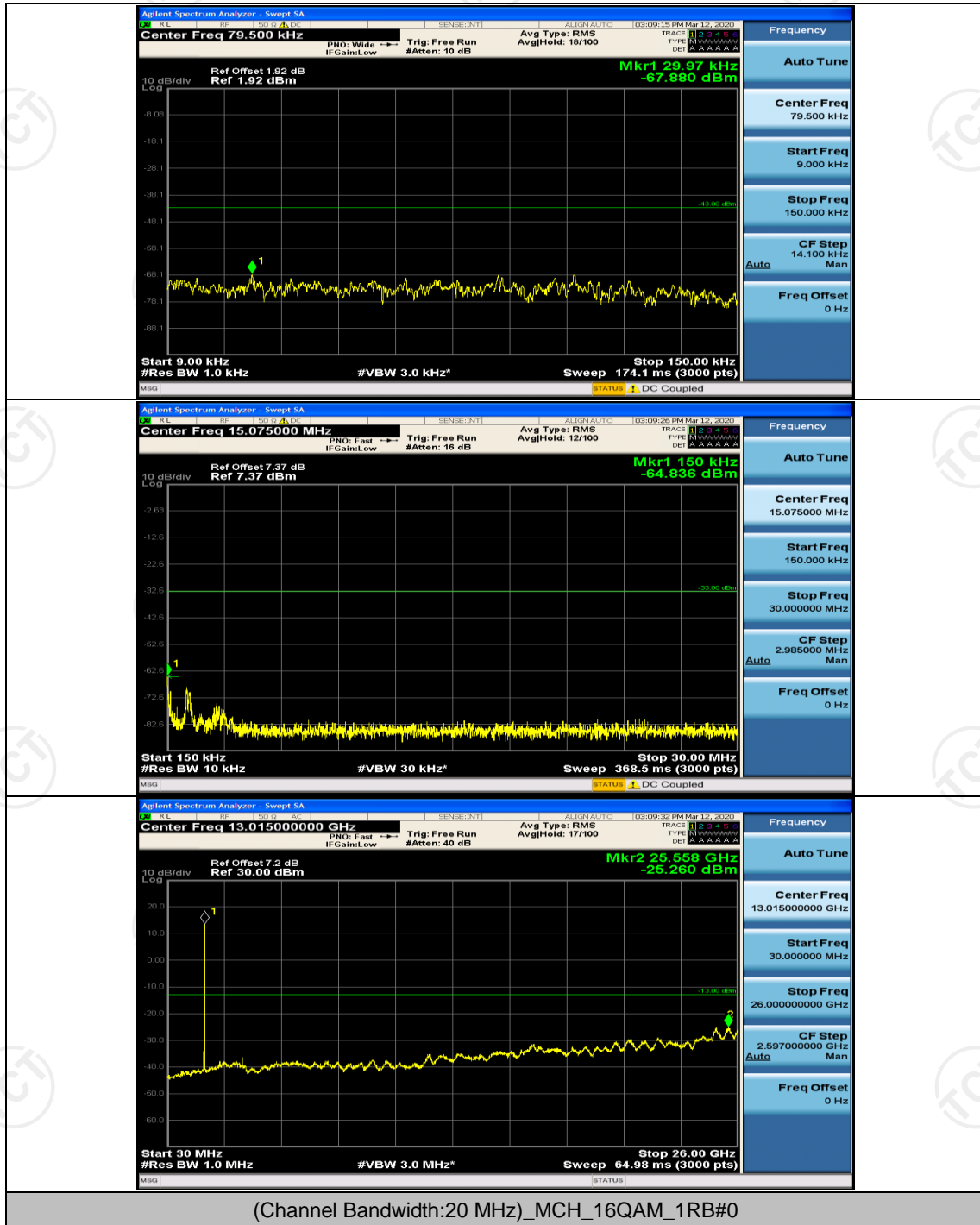


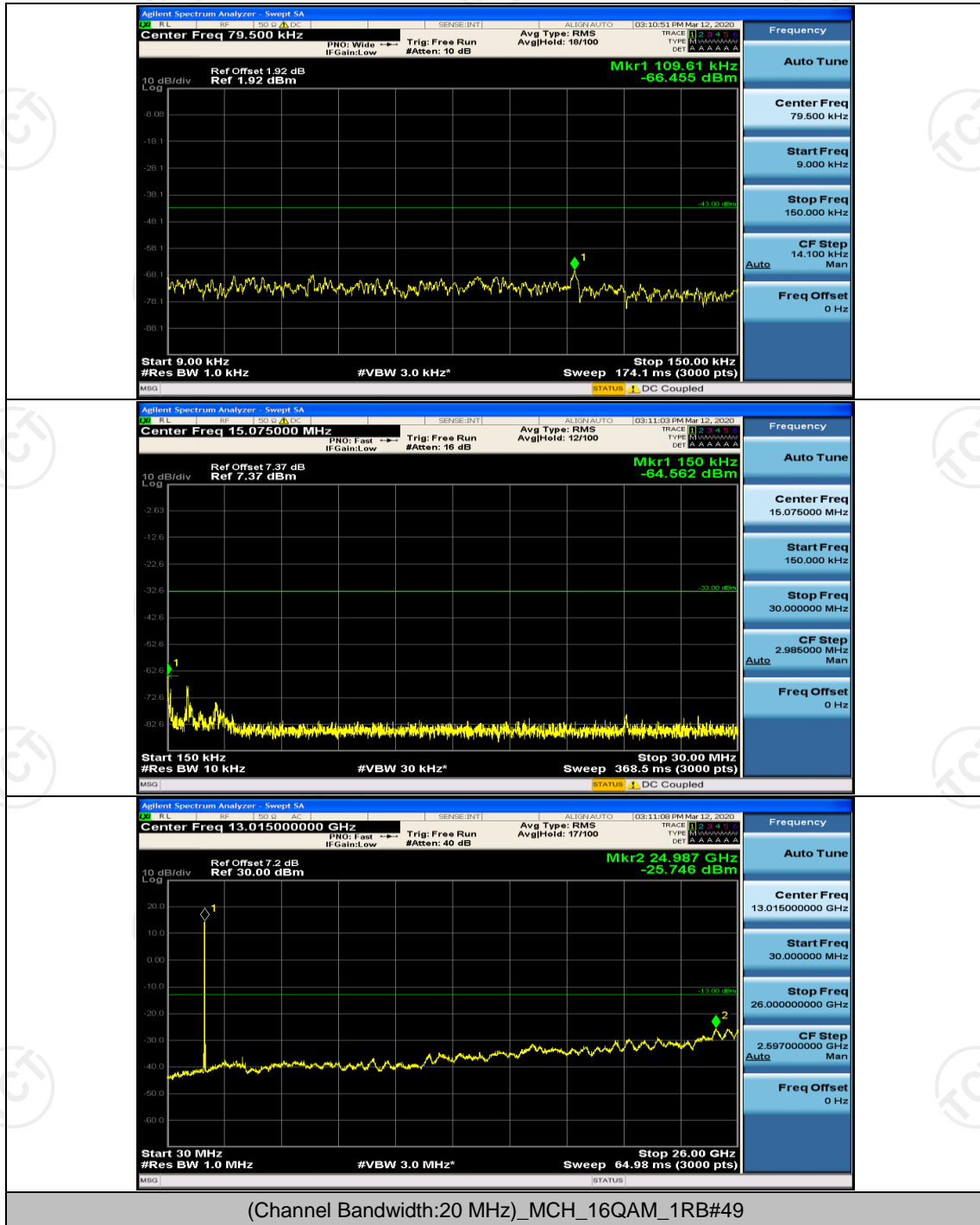


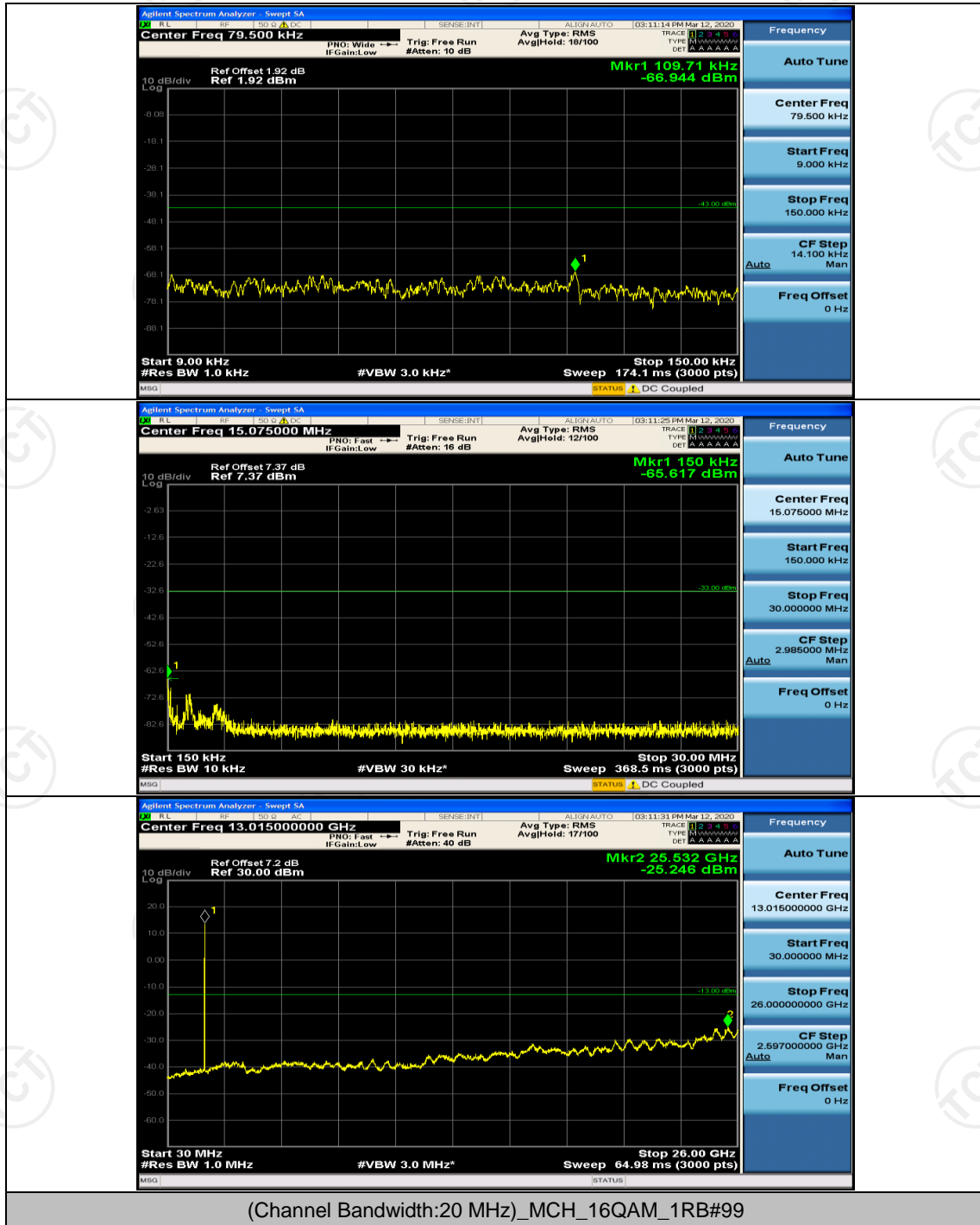


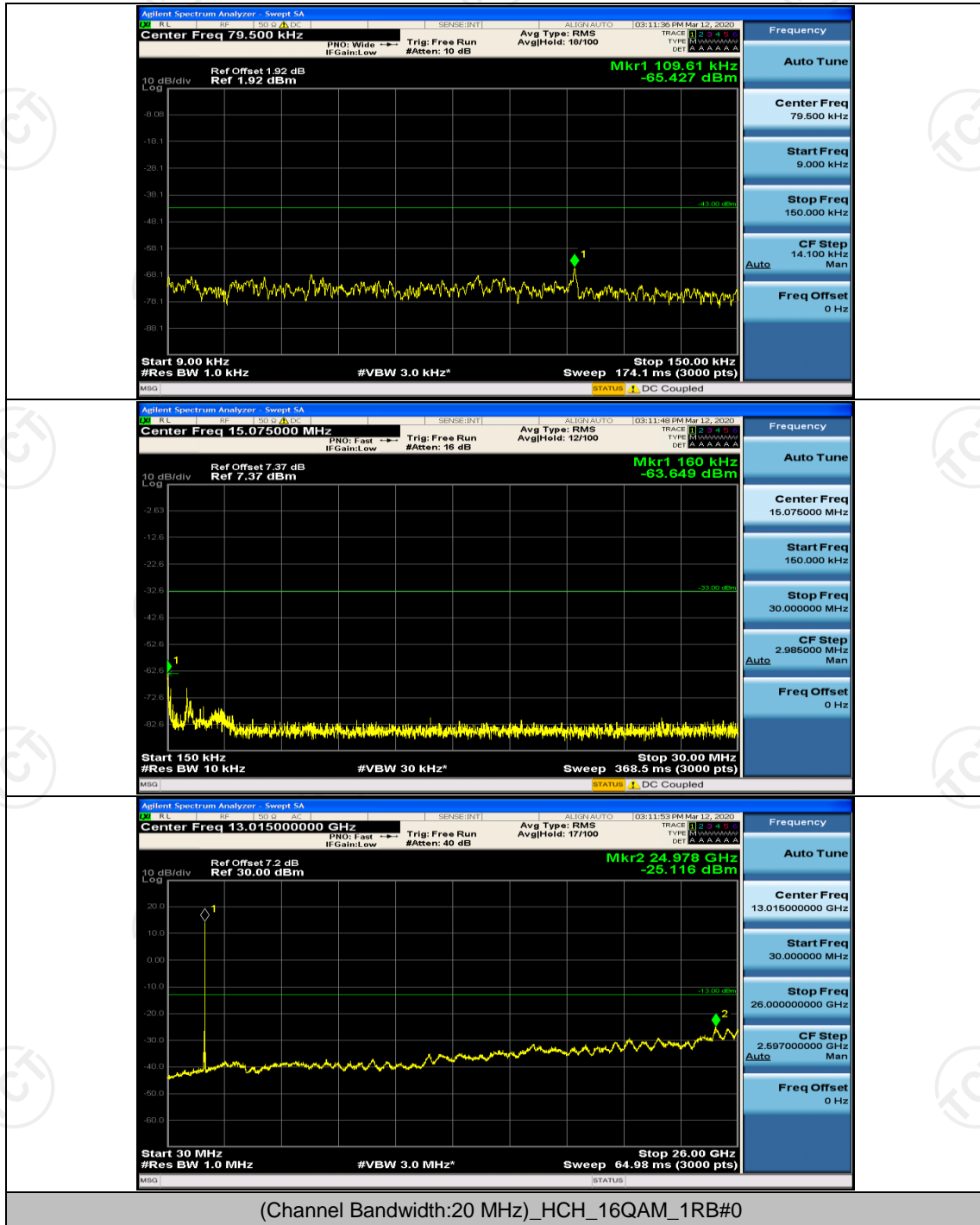


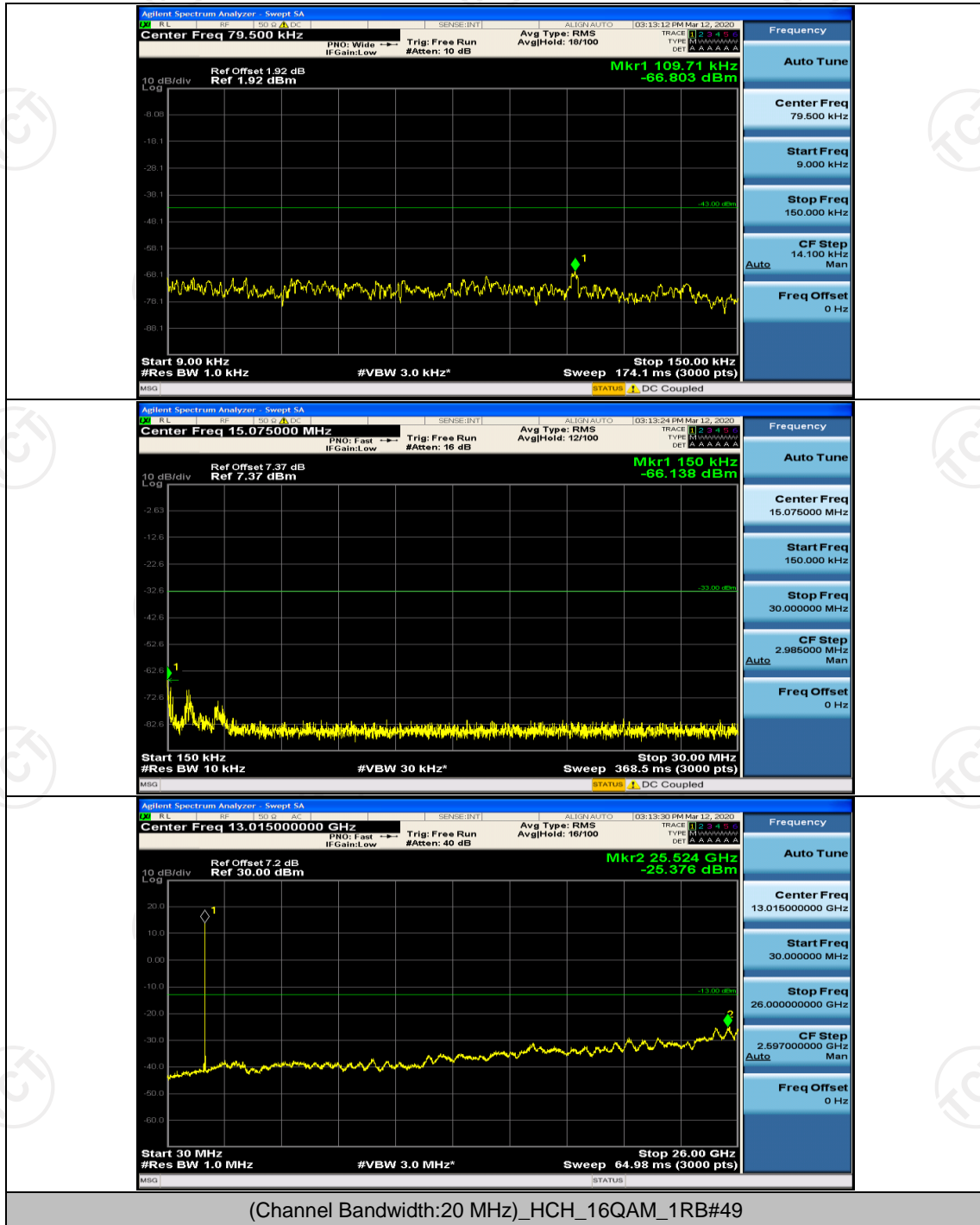




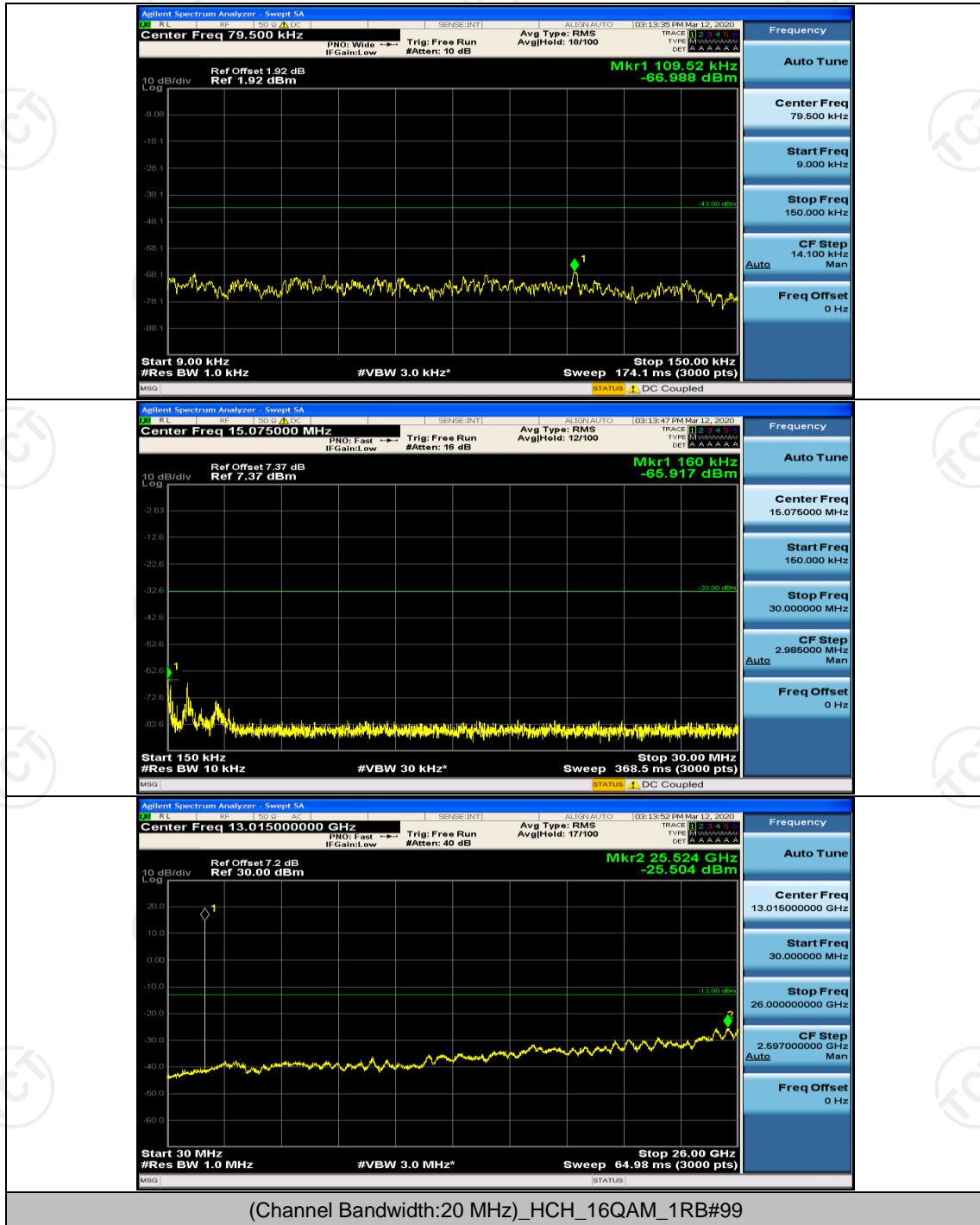


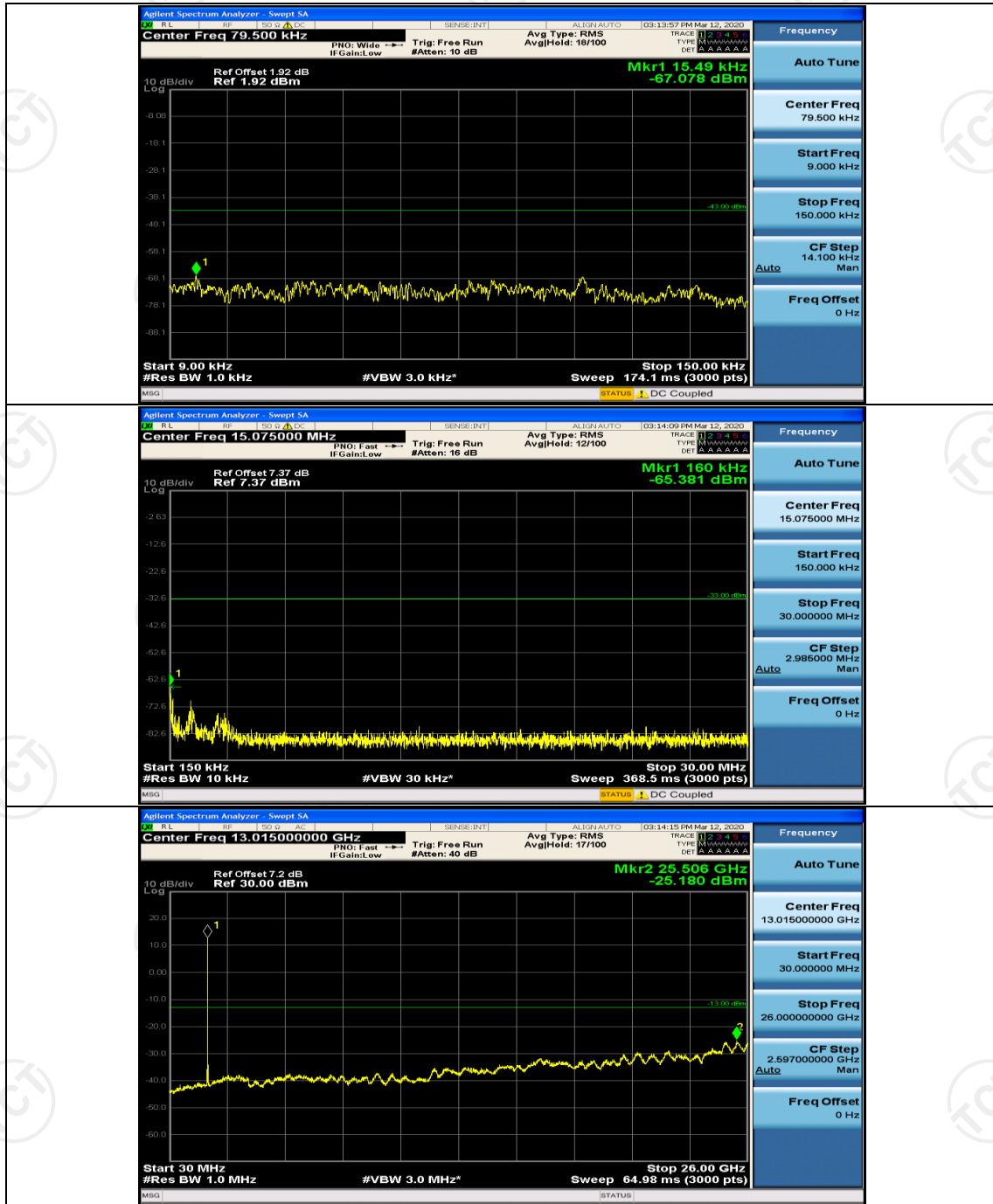












## Appendix F: Frequency Stability

### 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	3.4	25	-4.55	-0.002731	± 2.5	PASS
		3.7	25	-4.49	-0.002626	± 2.5	PASS
		4.2	25	-4.63	-0.002892	± 2.5	PASS
	MCH	3.4	25	-4.77	-0.003005	± 2.5	PASS
		3.7	25	-0.76	-0.000438	± 2.5	PASS
		4.2	25	-0.60	-0.000355	± 2.5	PASS
	HCH	3.4	25	-0.34	-0.000223	± 2.5	PASS
		3.7	25	-5.87	-0.003343	± 2.5	PASS
		4.2	25	-5.99	-0.003476	± 2.5	PASS
16QAM	LCH	3.4	25	-6.34	-0.003611	± 2.5	PASS
		3.7	25	-2.03	-0.001187	± 2.5	PASS
		4.2	25	-2.20	-0.001301	± 2.5	PASS
	MCH	3.4	25	-2.31	-0.001415	± 2.5	PASS
		3.7	25	-0.49	-0.000281	± 2.5	PASS
		4.2	25	-0.63	-0.000303	± 2.5	PASS
	HCH	3.4	25	-0.76	-0.000419	± 2.5	PASS
		3.7	25	-4.79	-0.002732	± 2.5	PASS
		4.2	25	-4.90	-0.002900	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	3.7	-30	-9.63	-0.005735	± 2.5	PASS
		3.7	-20	-9.48	-0.005690	± 2.5	PASS
		3.7	-10	-9.35	-0.005578	± 2.5	PASS
		3.7	0	-9.12	-0.005462	± 2.5	PASS
		3.7	10	-9.01	-0.005330	± 2.5	PASS
		3.7	20	-8.85	-0.005176	± 2.5	PASS
		3.7	30	-8.14	-0.004758	± 2.5	PASS
		3.7	40	-4.48	-0.002617	± 2.5	PASS
		3.7	50	-6.72	-0.003930	± 2.5	PASS
	MCH	3.7	-30	-6.55	-0.003703	± 2.5	PASS
		3.7	-20	-6.31	-0.003571	± 2.5	PASS
		3.7	-10	-6.18	-0.003306	± 2.5	PASS
		3.7	0	-6.06	-0.003217	± 2.5	PASS
		3.7	10	-6.02	-0.003210	± 2.5	PASS

		3.7	20	-3.52	-0.002031	± 2.5	PASS	
		3.7	30	-0.37	-0.000215	± 2.5	PASS	
		3.7	40	-1.42	-0.000817	± 2.5	PASS	
		3.7	50	-2.57	-0.001486	± 2.5	PASS	
	HCH	3.7	-30	-2.65	-0.001597	± 2.5	PASS	
		3.7	-20	-2.70	-0.001680	± 2.5	PASS	
		3.7	-10	-3.01	-0.001931	± 2.5	PASS	
		3.7	0	-3.15	-0.002154	± 2.5	PASS	
		3.7	10	-3.29	-0.002231	± 2.5	PASS	
		3.7	20	-2.39	-0.001362	± 2.5	PASS	
		3.7	30	-7.18	-0.004093	± 2.5	PASS	
		3.7	40	-6.15	-0.003506	± 2.5	PASS	
		3.7	50	-3.13	-0.001786	± 2.5	PASS	
16QAM	LCH	3.7	-30	-3.30	-0.001952	± 2.5	PASS	
		3.7	-20	-3.53	-0.002106	± 2.5	PASS	
		3.7	-10	-3.67	-0.002231	± 2.5	PASS	
		3.7	0	-3.71	-0.002293	± 2.5	PASS	
		3.7	10	-3.93	-0.002346	± 2.5	PASS	
		3.7	20	-2.86	-0.001672	± 2.5	PASS	
		3.7	30	-6.24	-0.003646	± 2.5	PASS	
		3.7	40	-1.57	-0.000920	± 2.5	PASS	
	MCH	3.7	50	-2.60	-0.001522	± 2.5	PASS	
		3.7	-30	-2.76	-0.001645	± 2.5	PASS	
		3.7	-20	-2.92	-0.001739	± 2.5	PASS	
		3.7	-10	-3.15	-0.001906	± 2.5	PASS	
		3.7	0	-3.24	-0.002014	± 2.5	PASS	
		3.7	10	-3.39	-0.002157	± 2.5	PASS	
		3.7	20	-1.80	-0.001040	± 2.5	PASS	
		3.7	30	-7.32	-0.004228	± 2.5	PASS	
		3.7	40	-7.12	-0.004112	± 2.5	PASS	
		3.7	50	-3.49	-0.002015	± 2.5	PASS	
	HCH	3.7	-30	-3.68	-0.002234	± 2.5	PASS	
		3.7	-20	-3.70	-0.002431	± 2.5	PASS	
		3.7	-10	-3.99	-0.002607	± 2.5	PASS	
		3.7	0	-4.17	-0.002831	± 2.5	PASS	
		3.7	10	-4.32	-0.003018	± 2.5	PASS	
		3.7	20	-1.49	-0.000848	± 2.5	PASS	
		3.7	30	-5.65	-0.003221	± 2.5	PASS	
		3.7	40	-2.99	-0.001704	± 2.5	PASS	
			3.7	50	-7.90	-0.004501	± 2.5	PASS