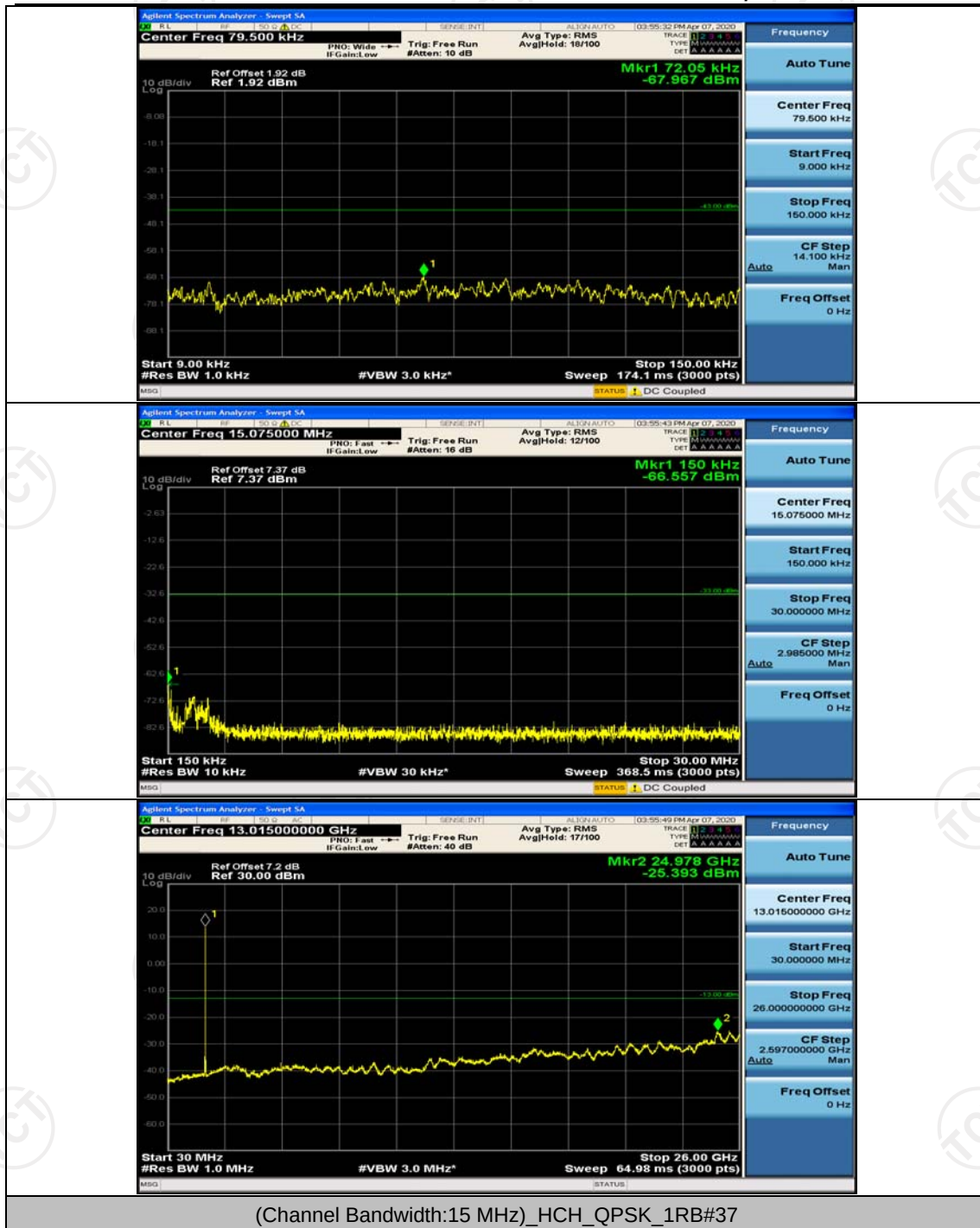
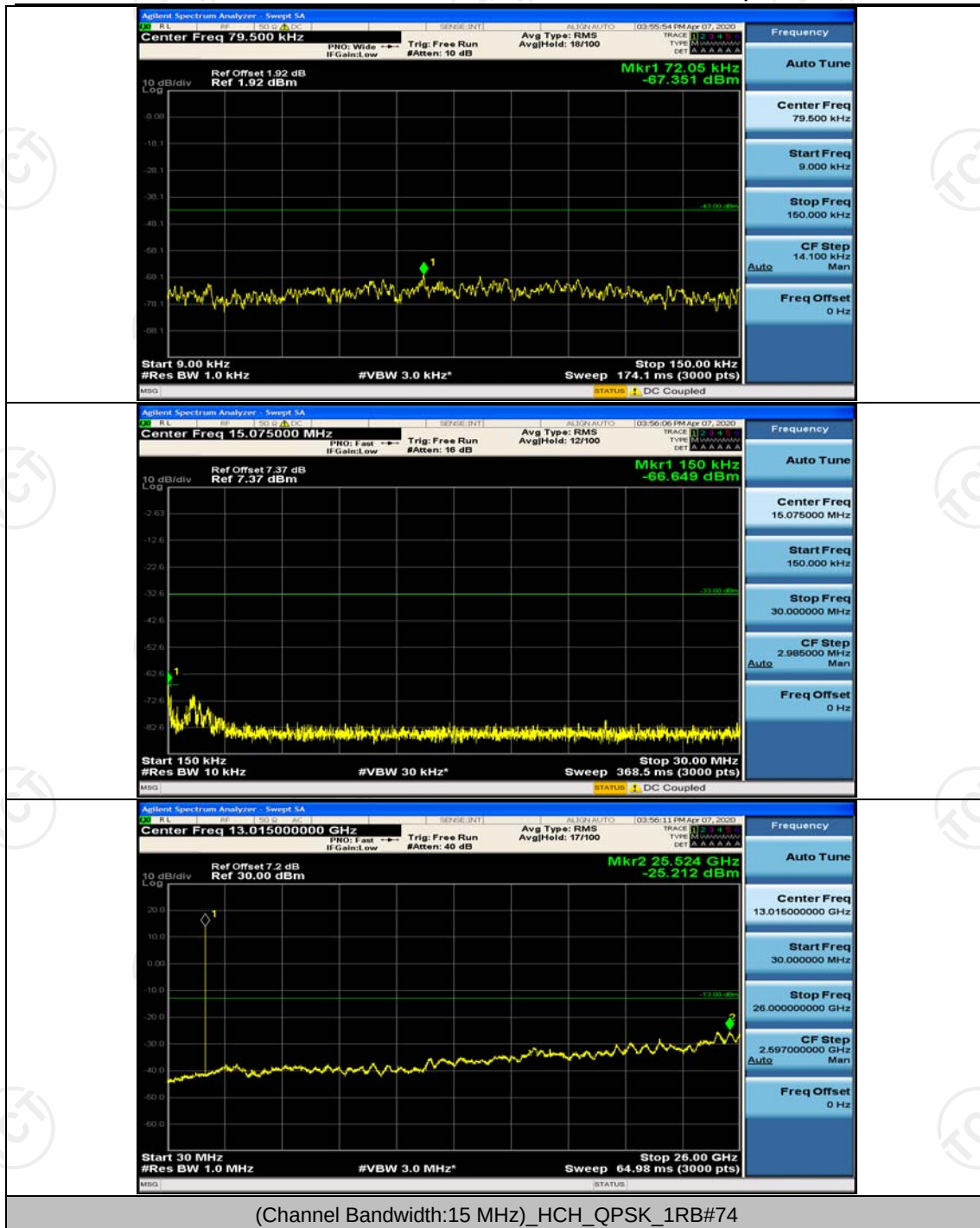
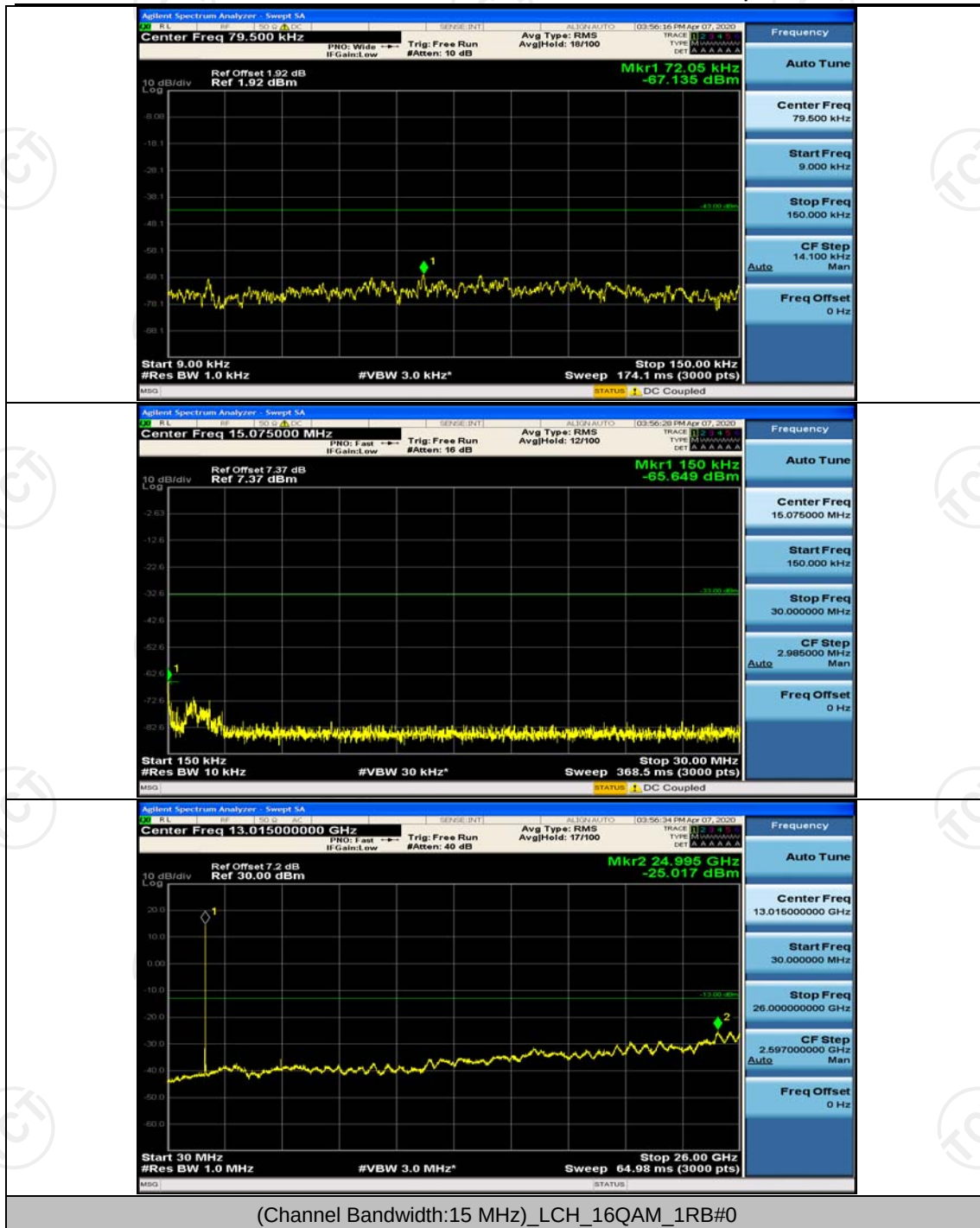
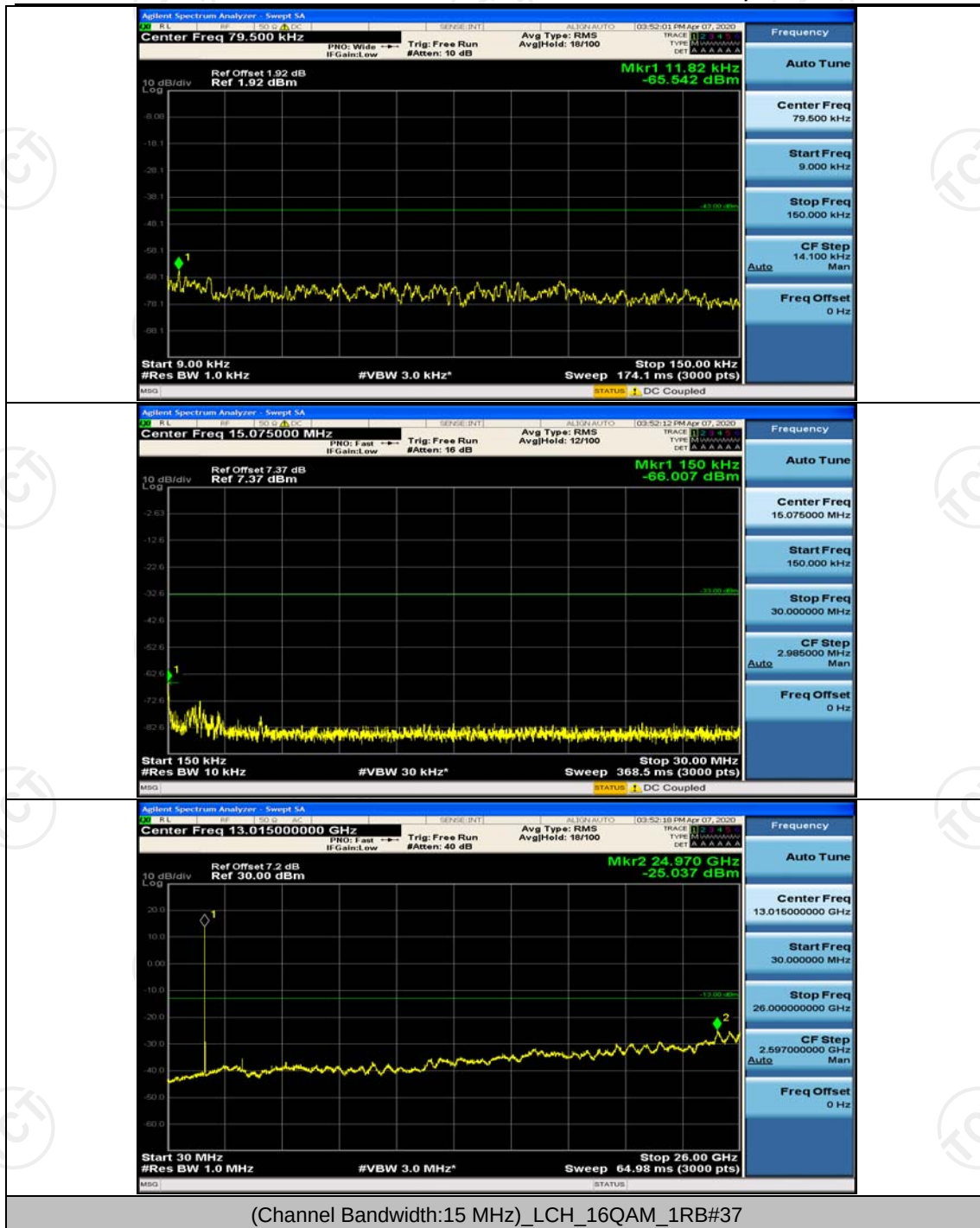
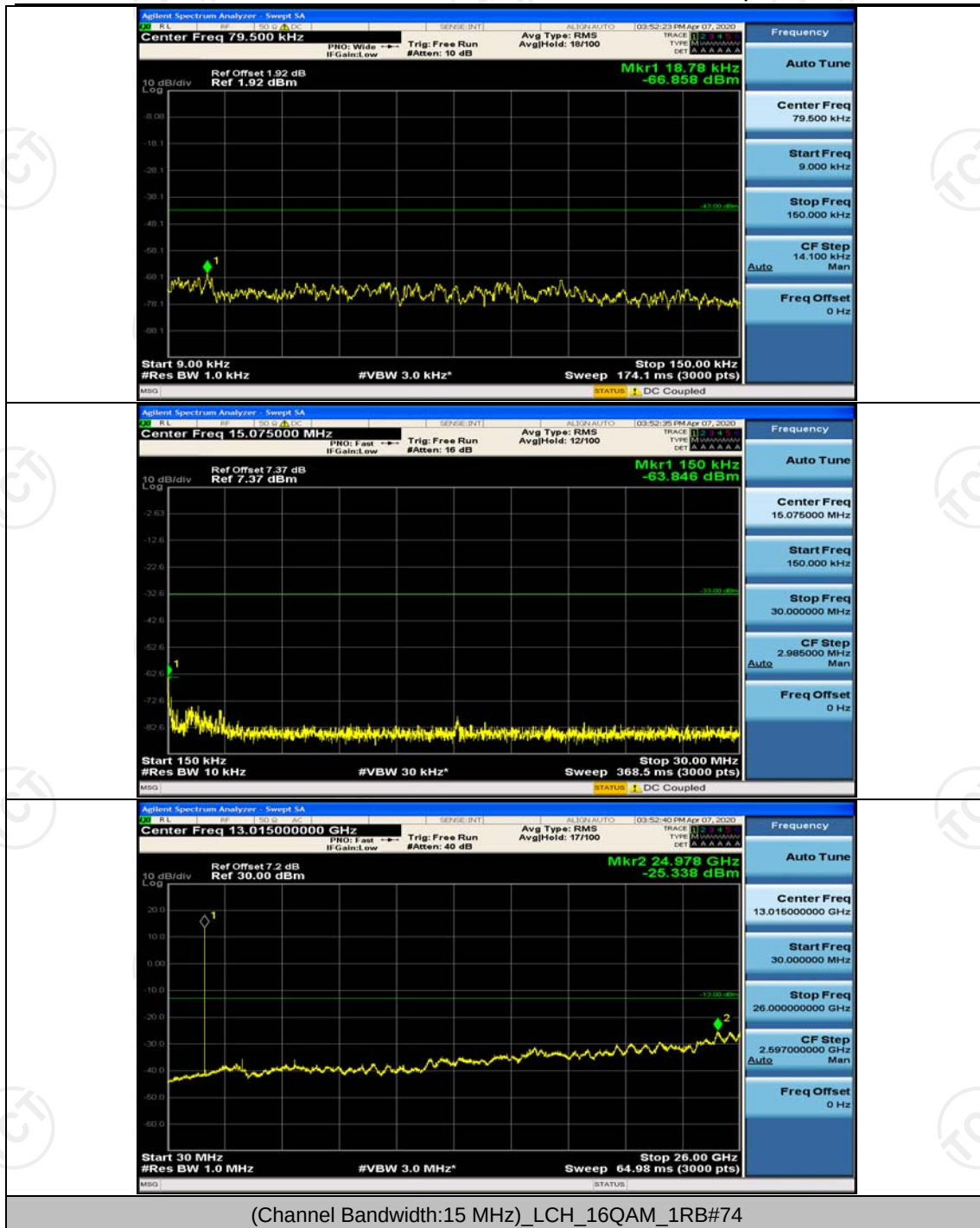


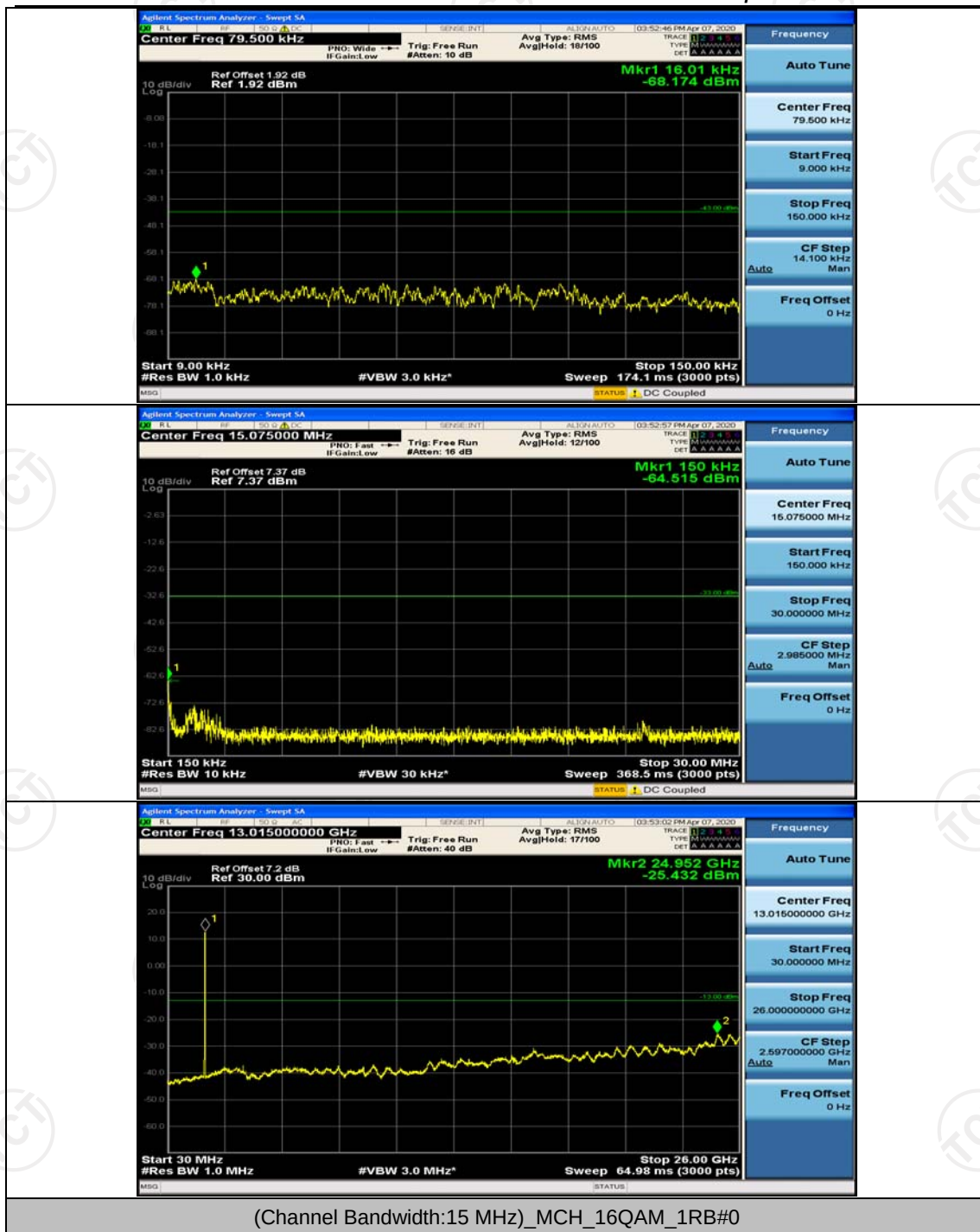


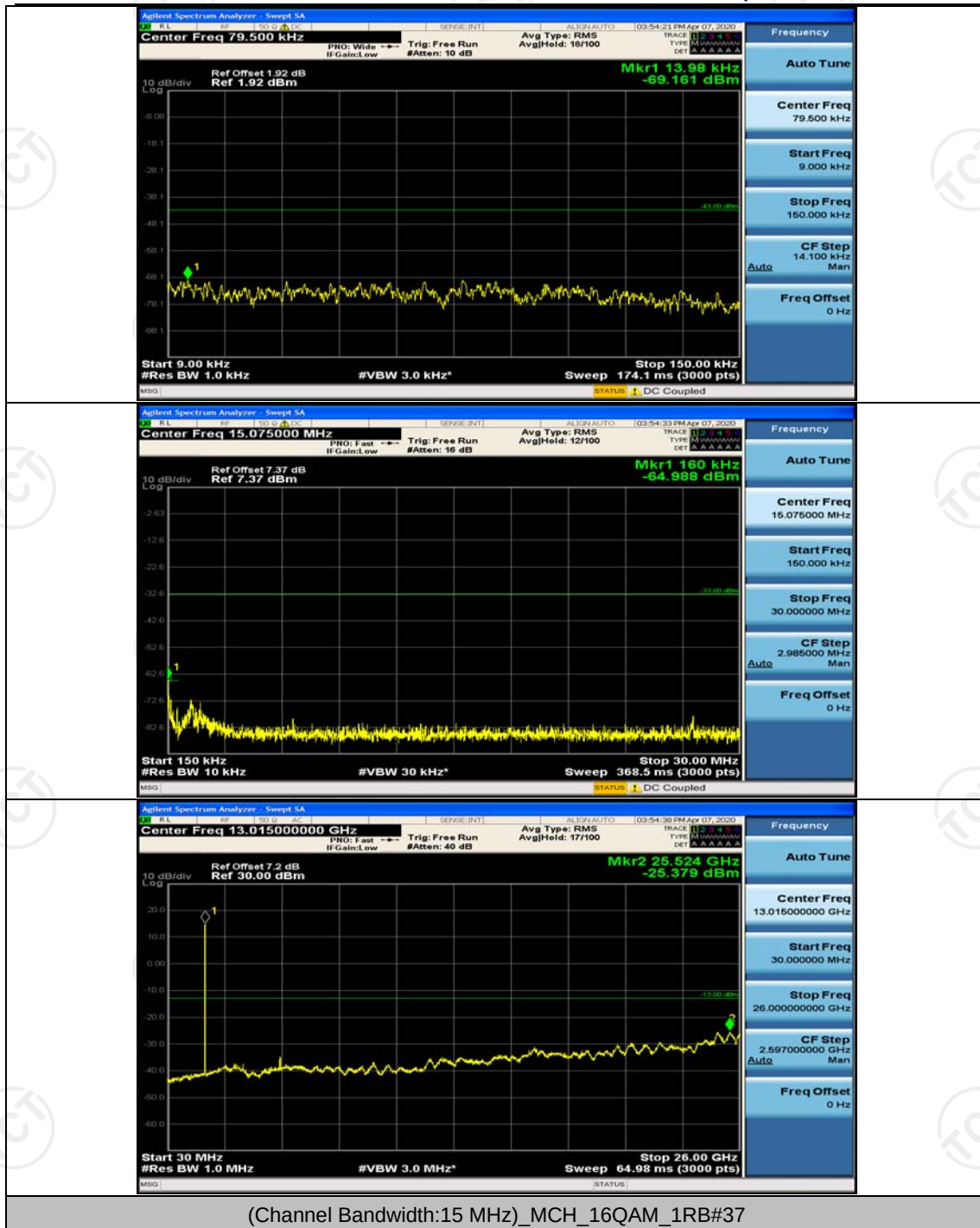


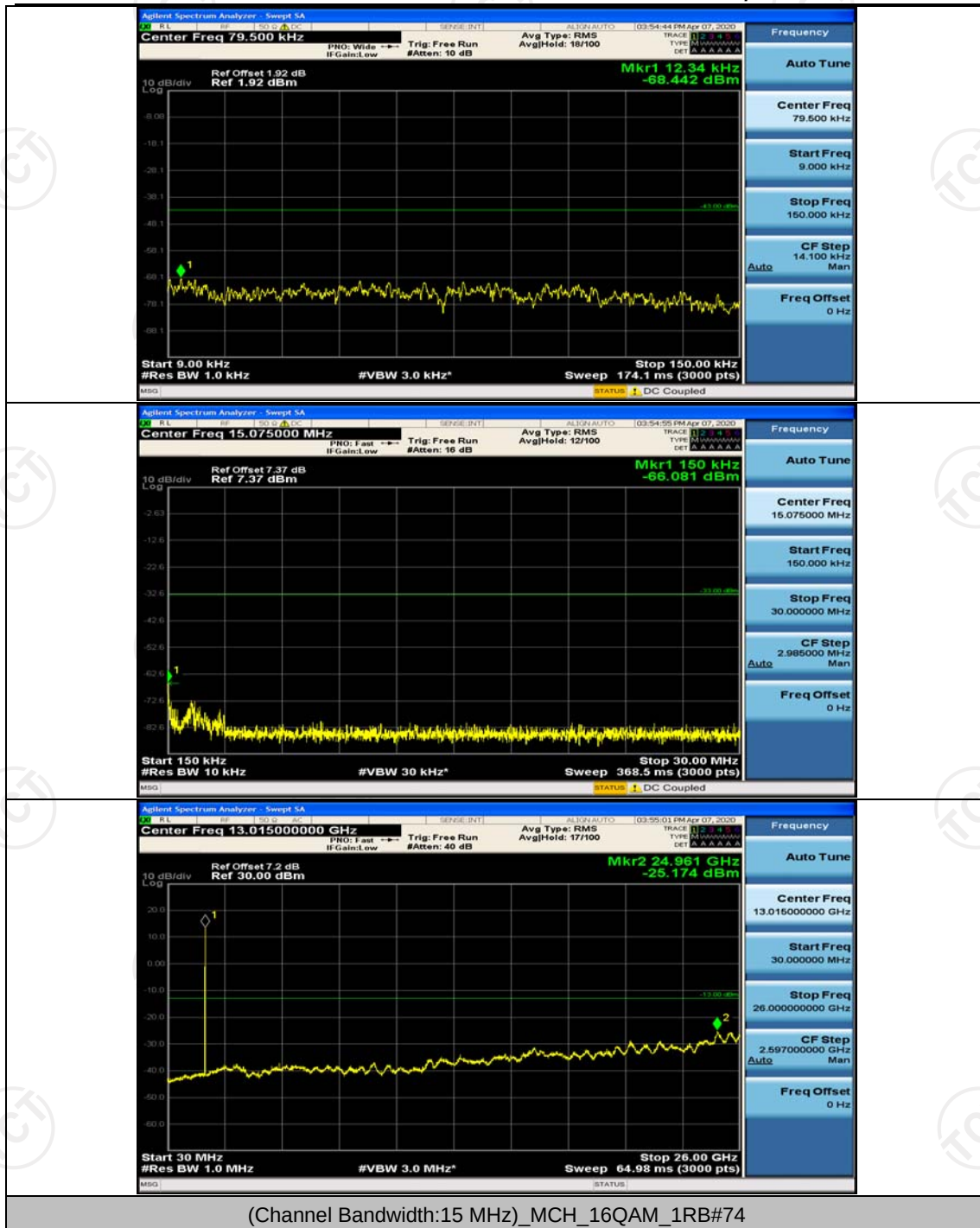


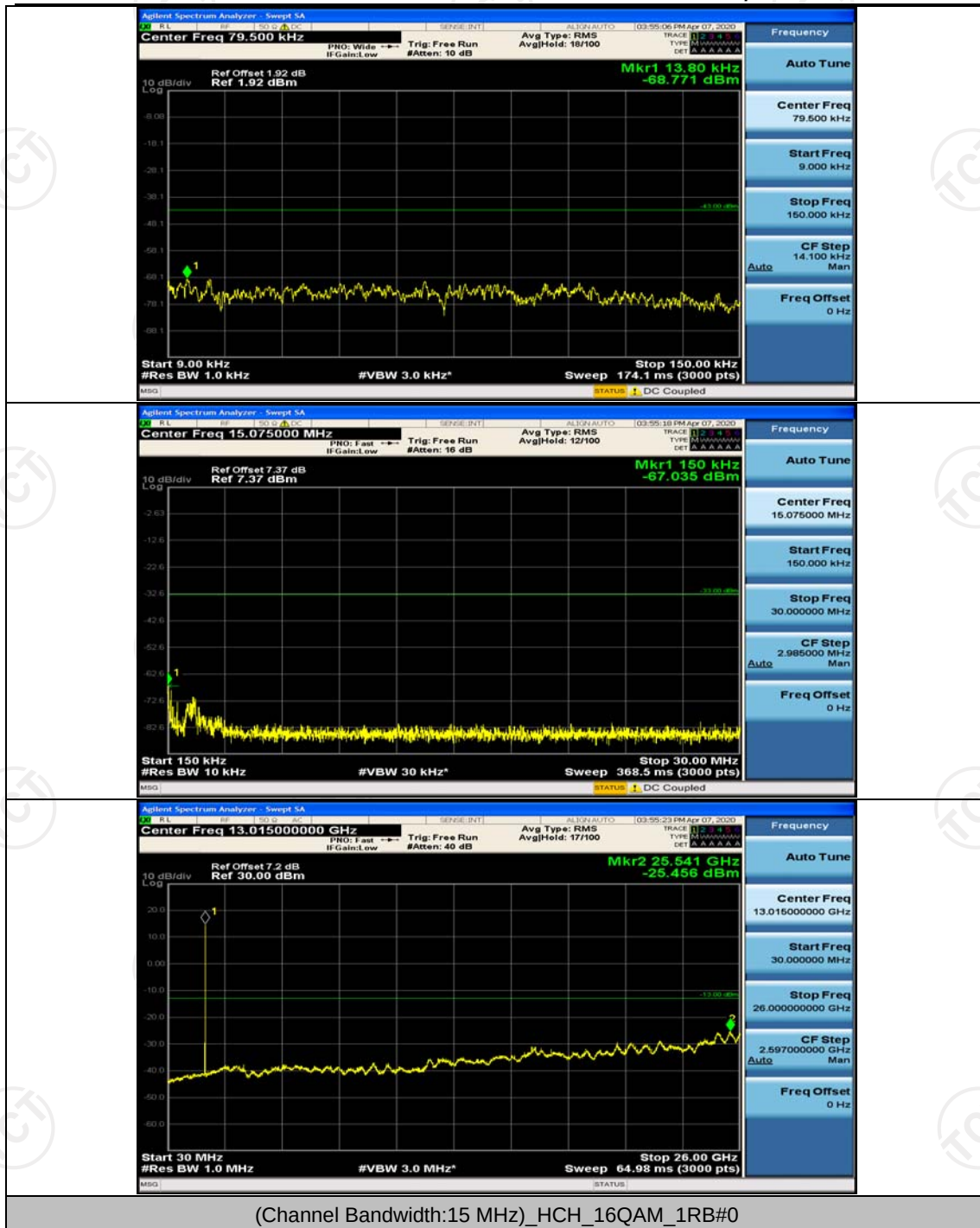


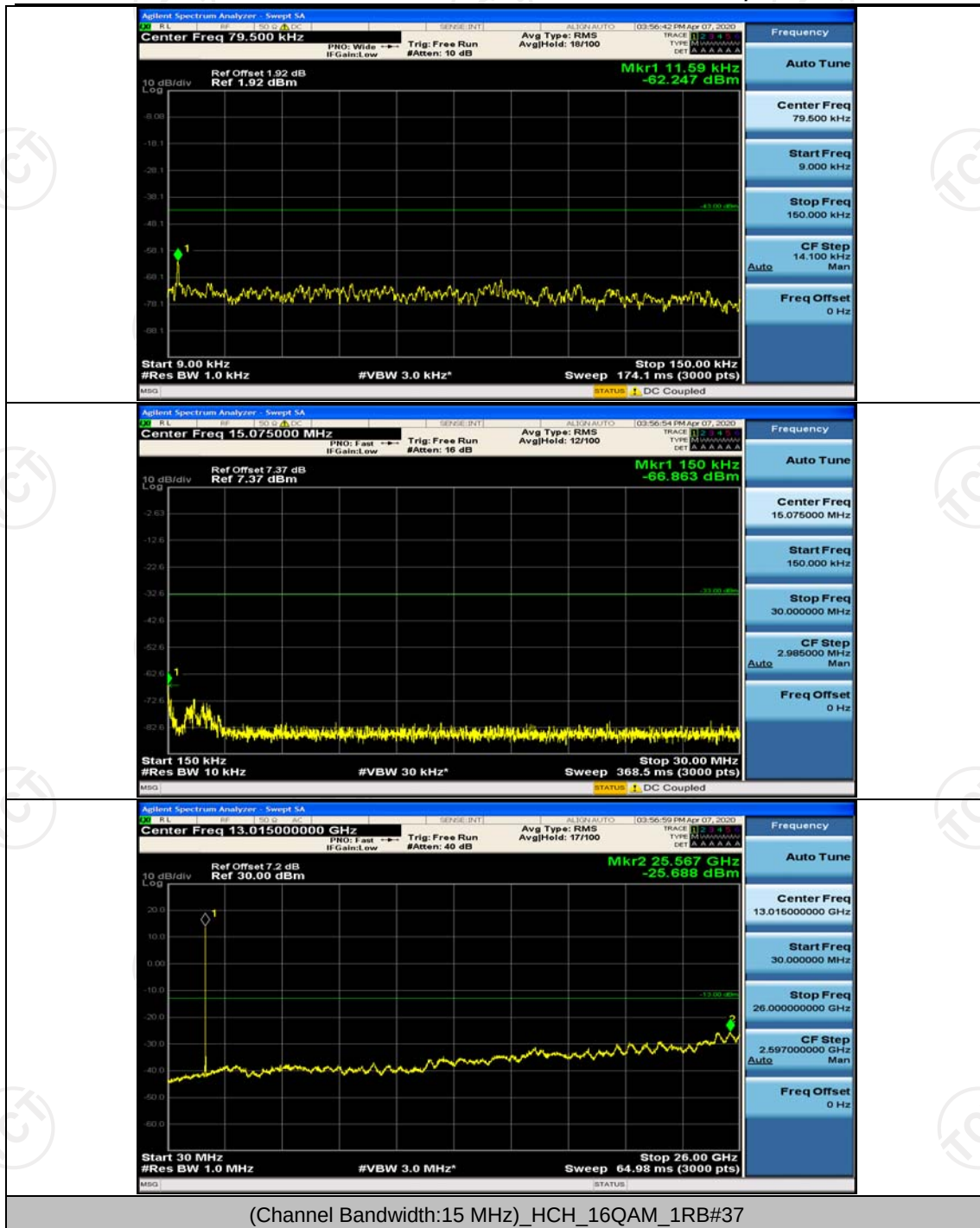


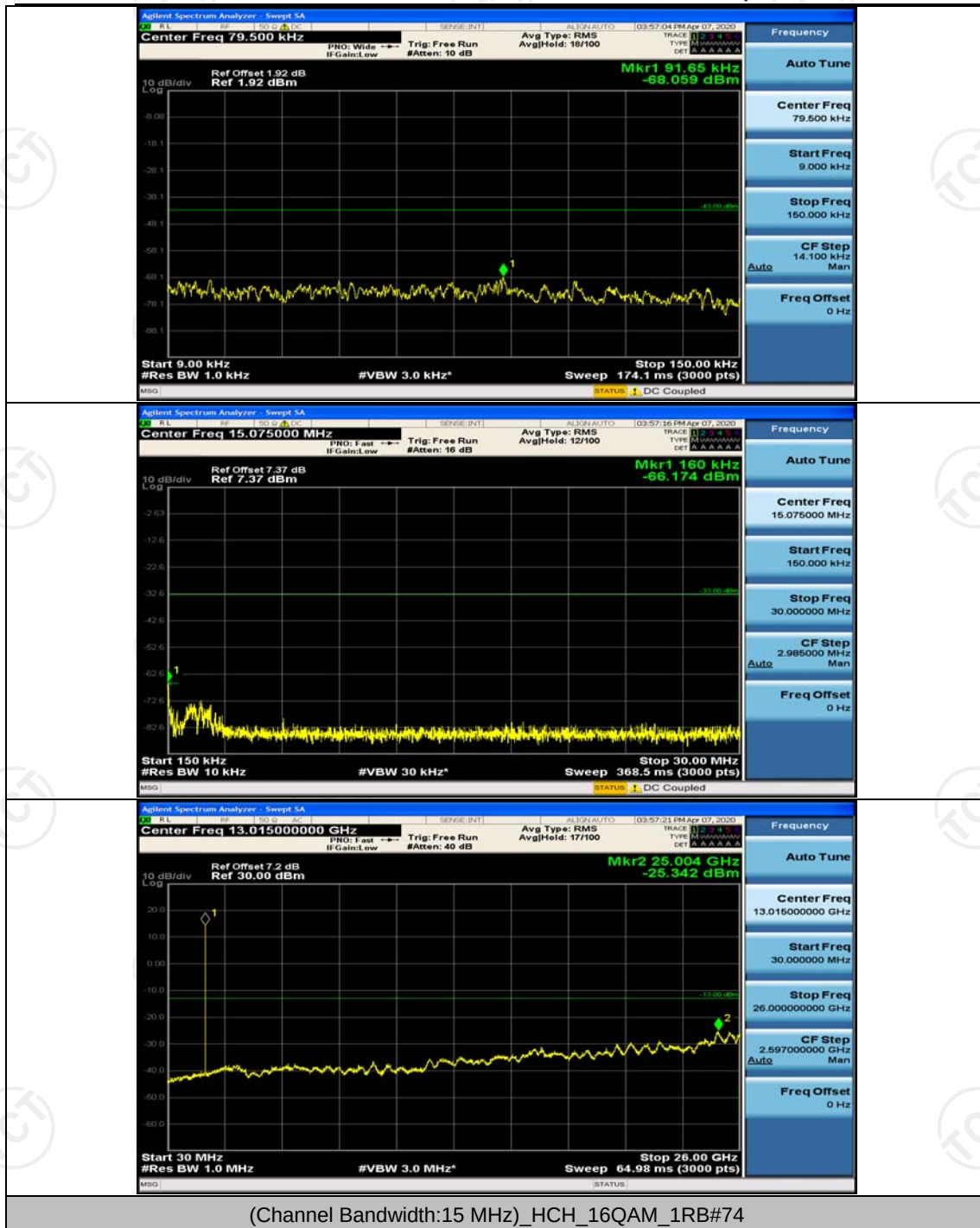


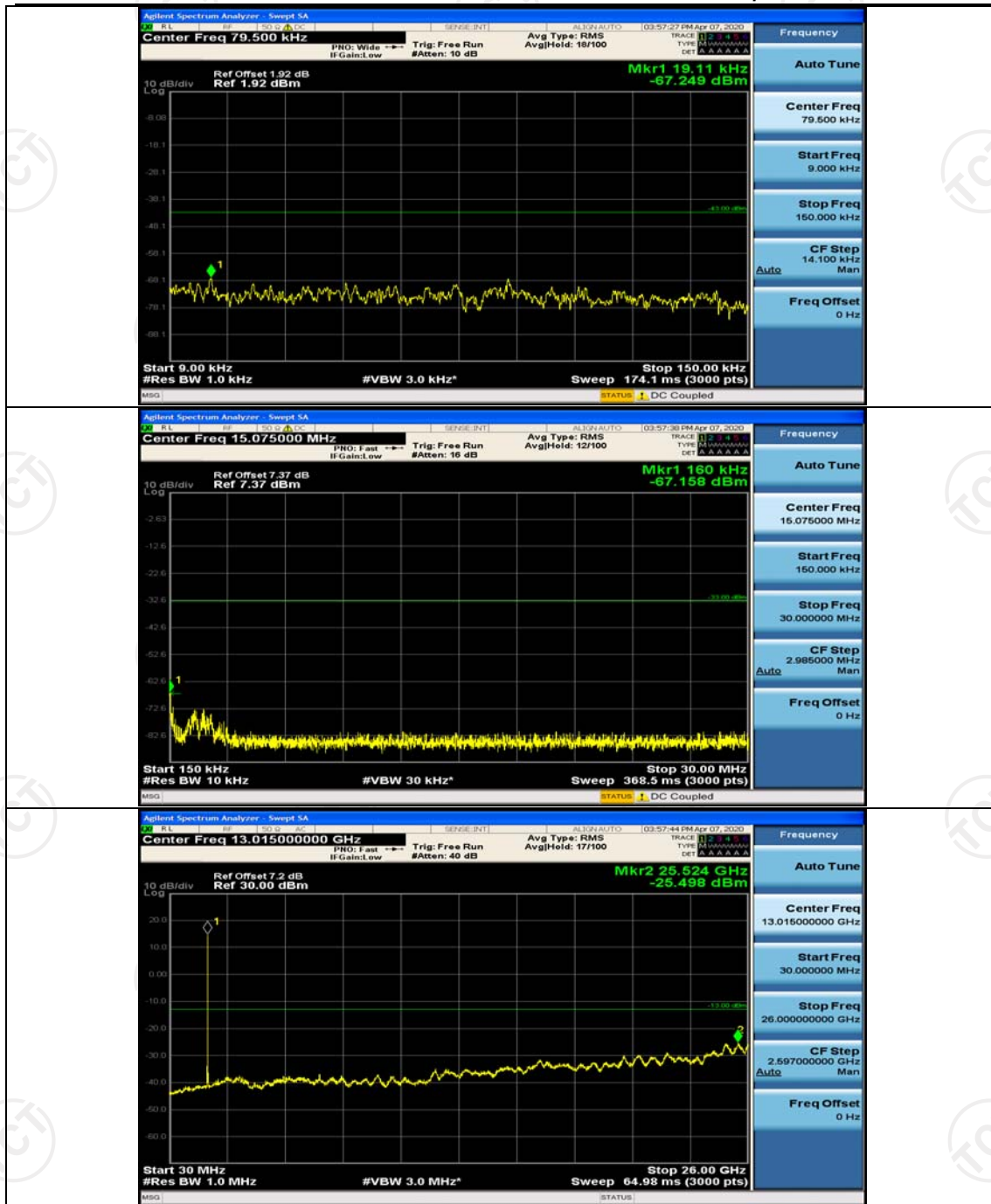




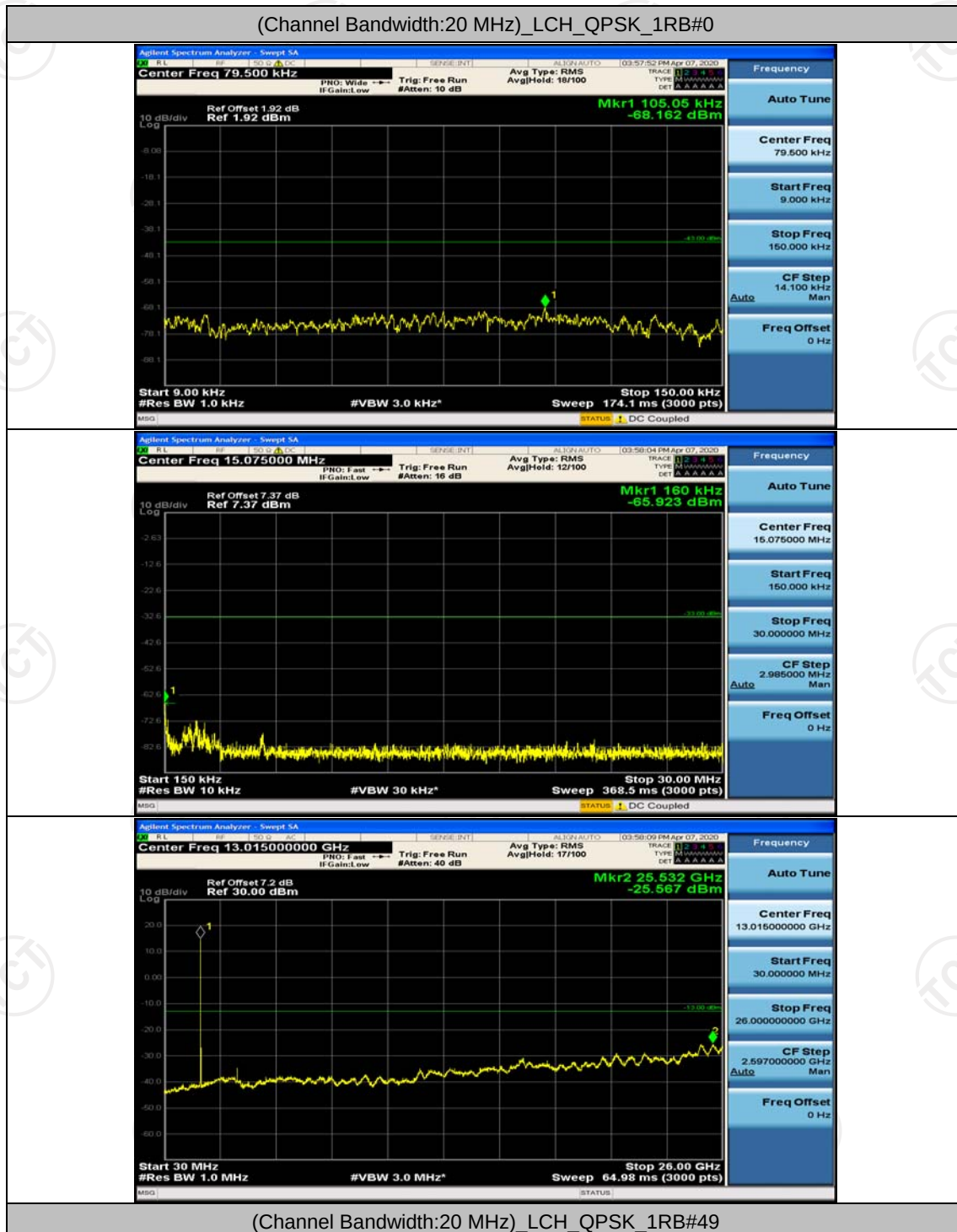


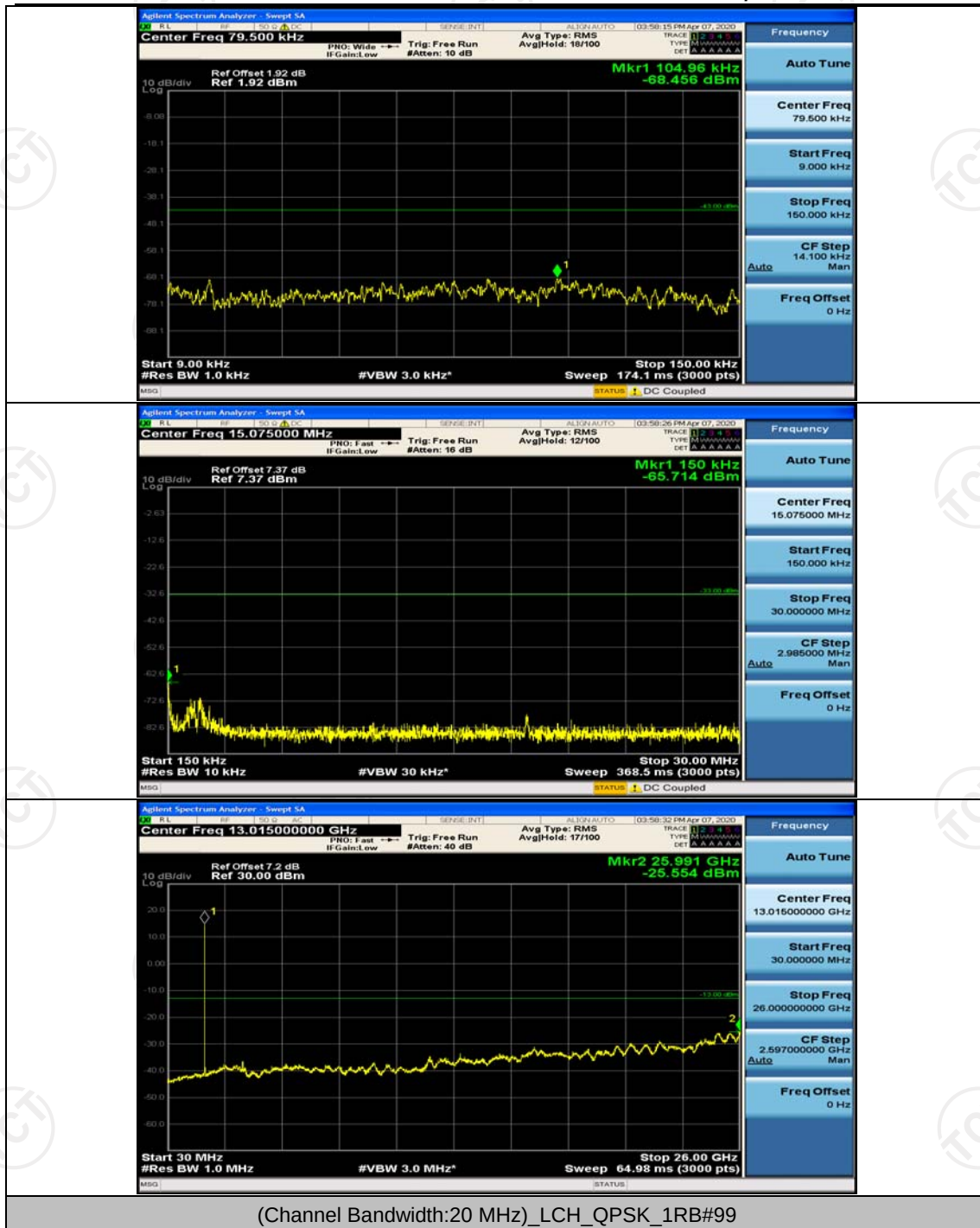


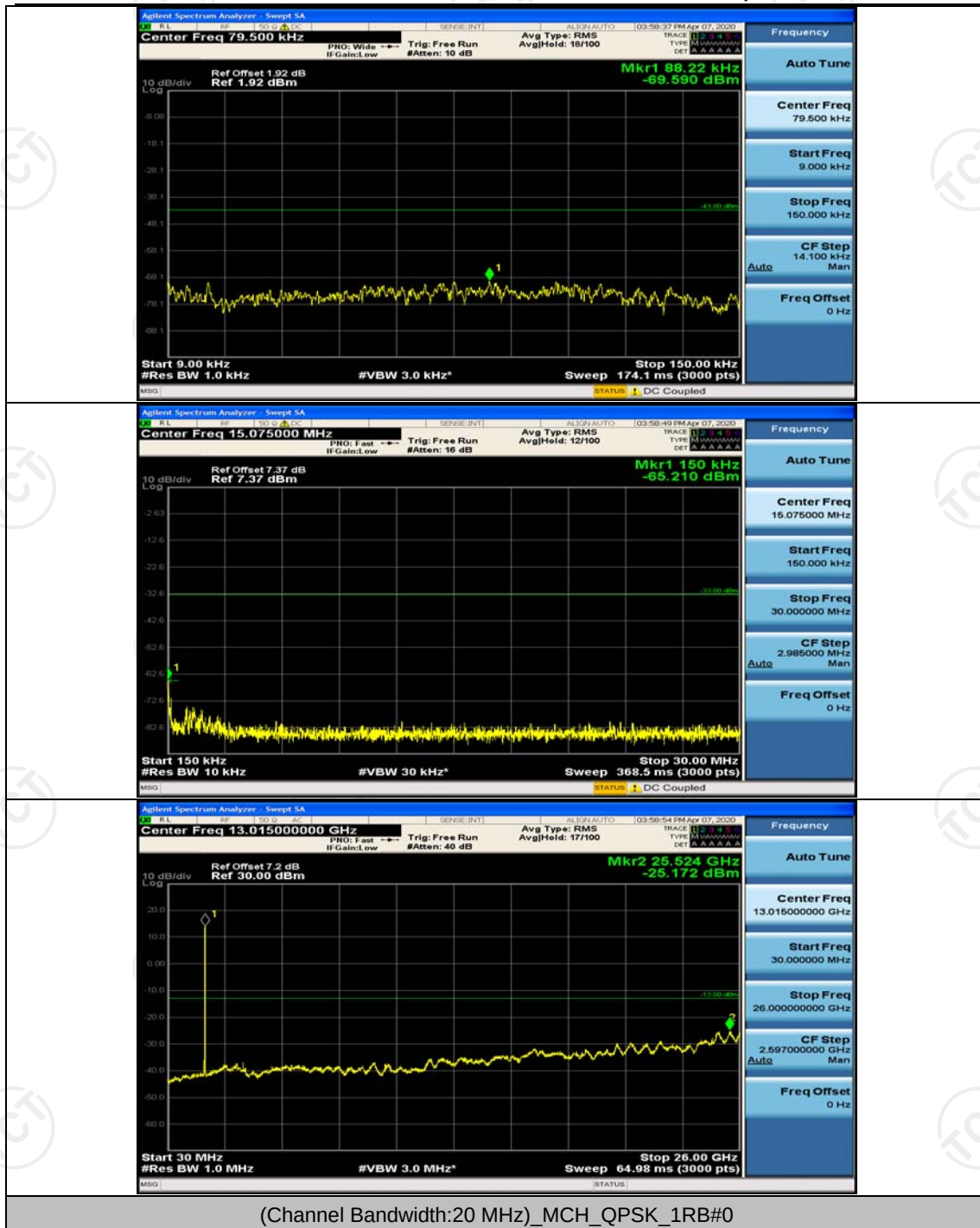


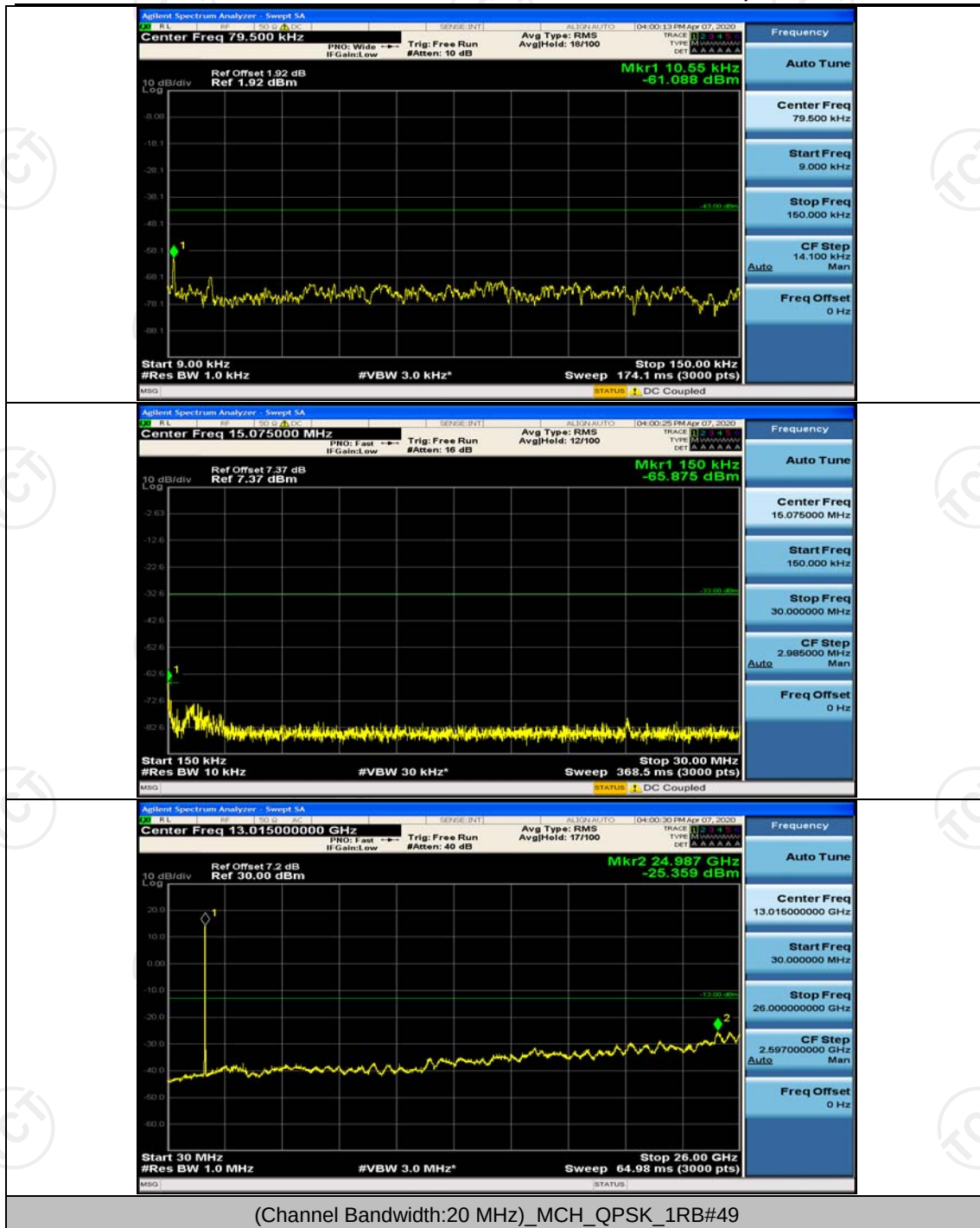


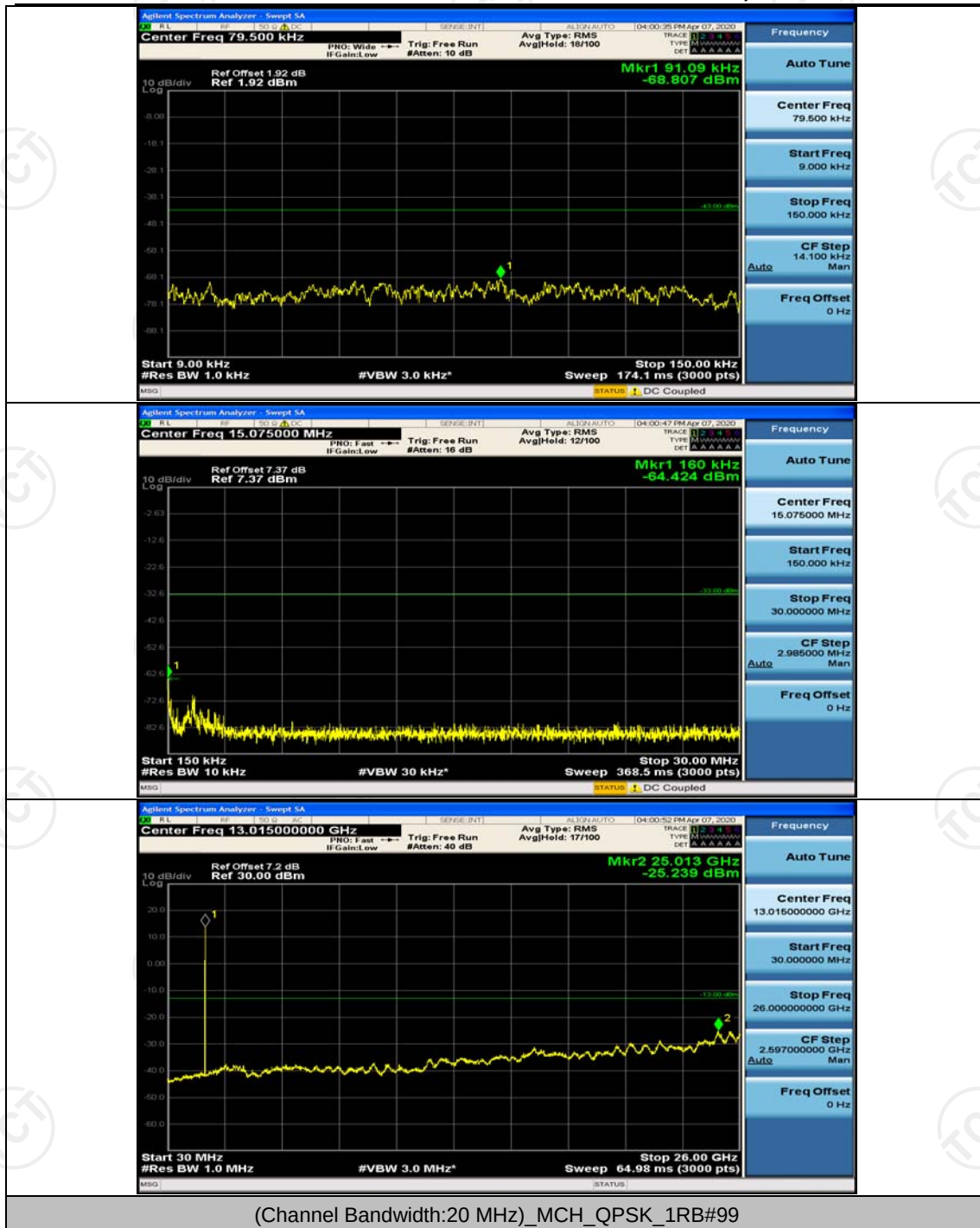
Channel Bandwidth: 20 MHz

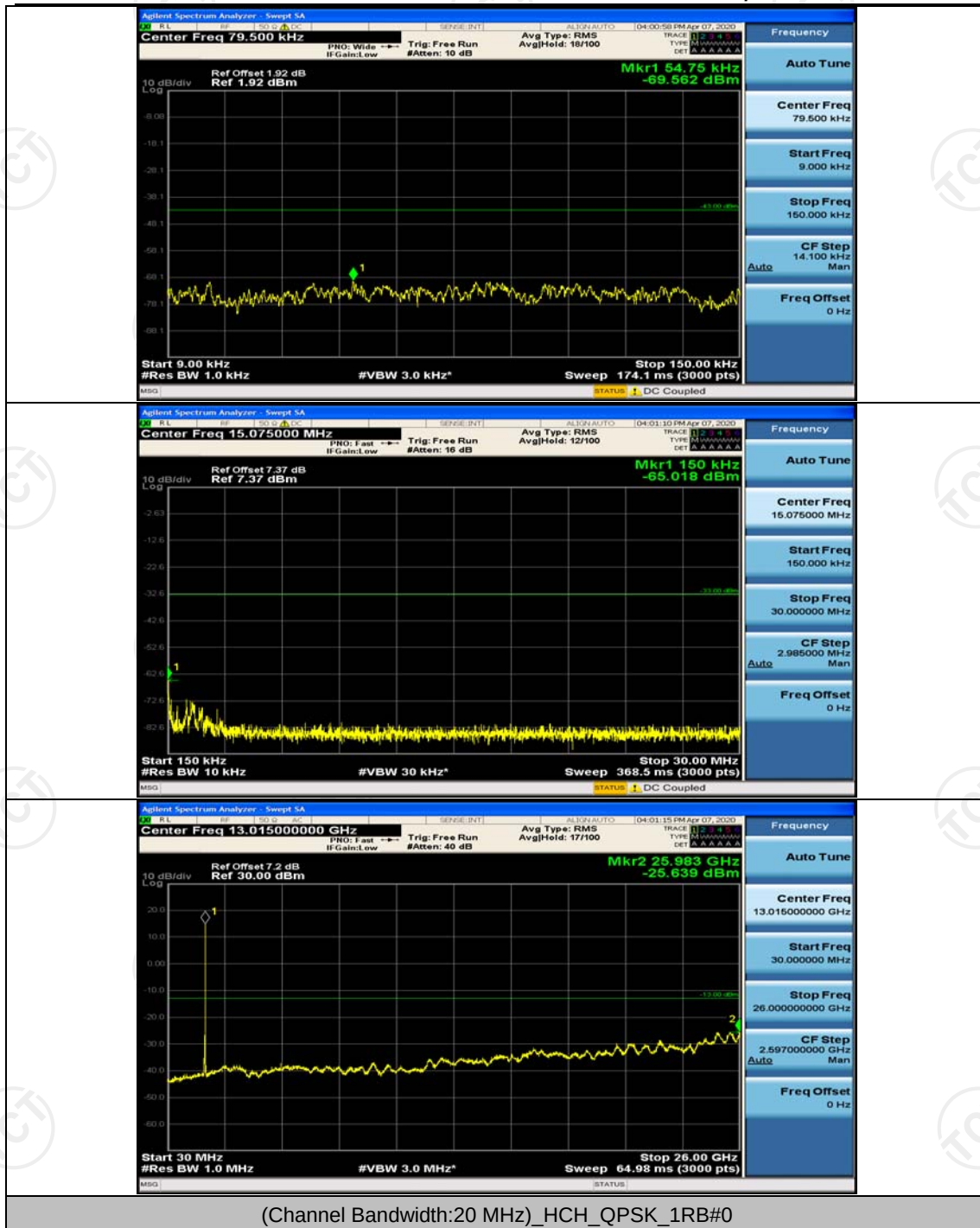


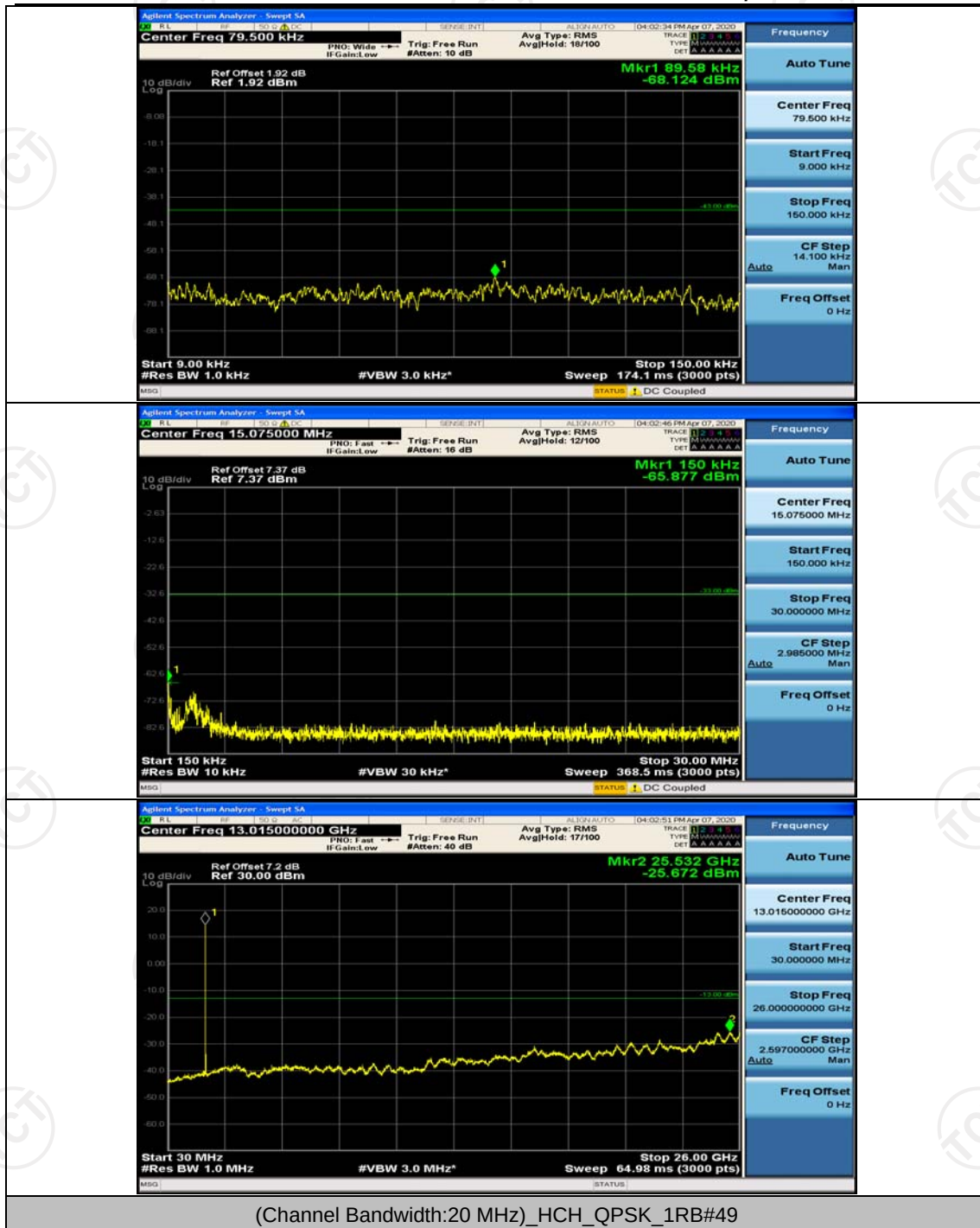


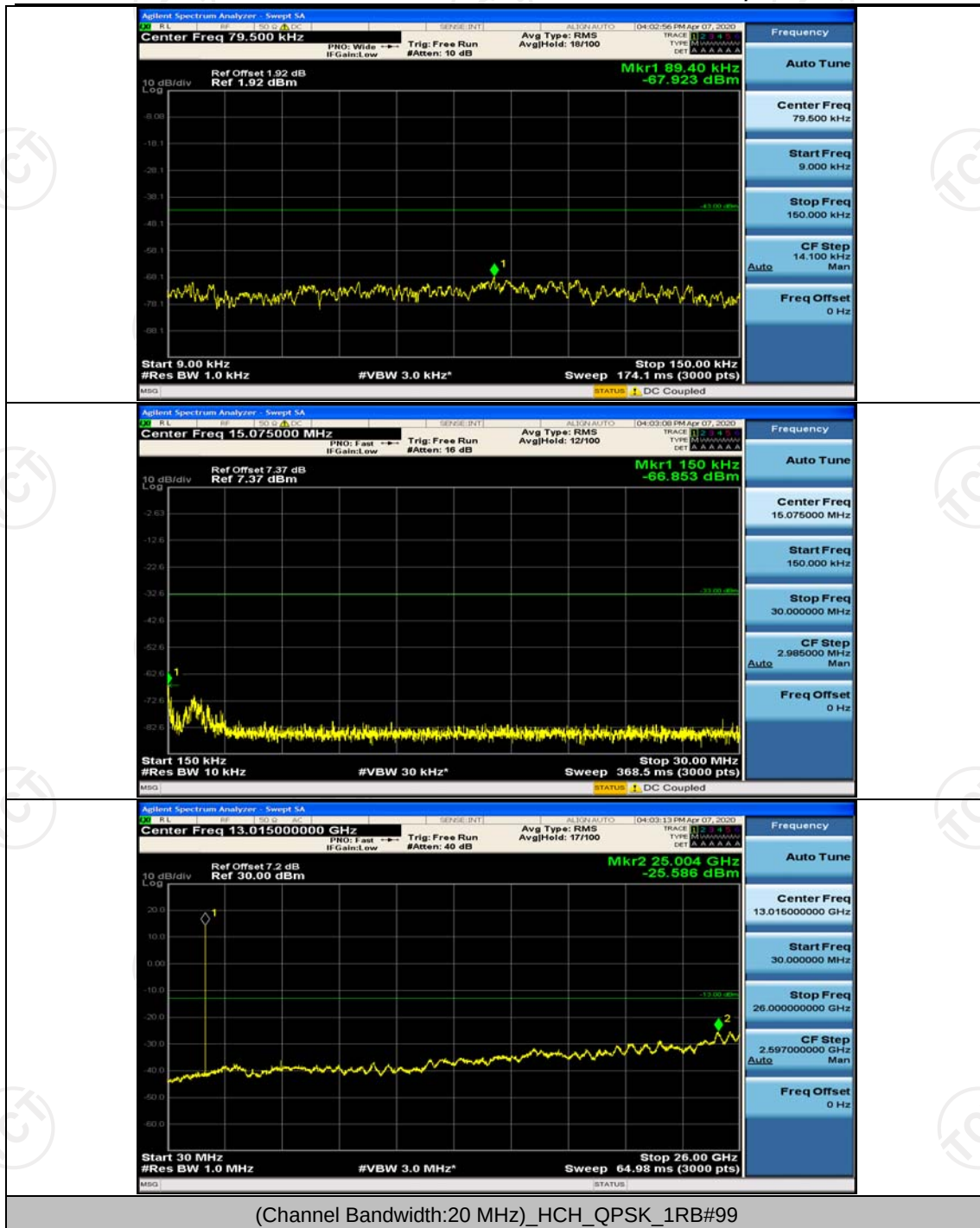


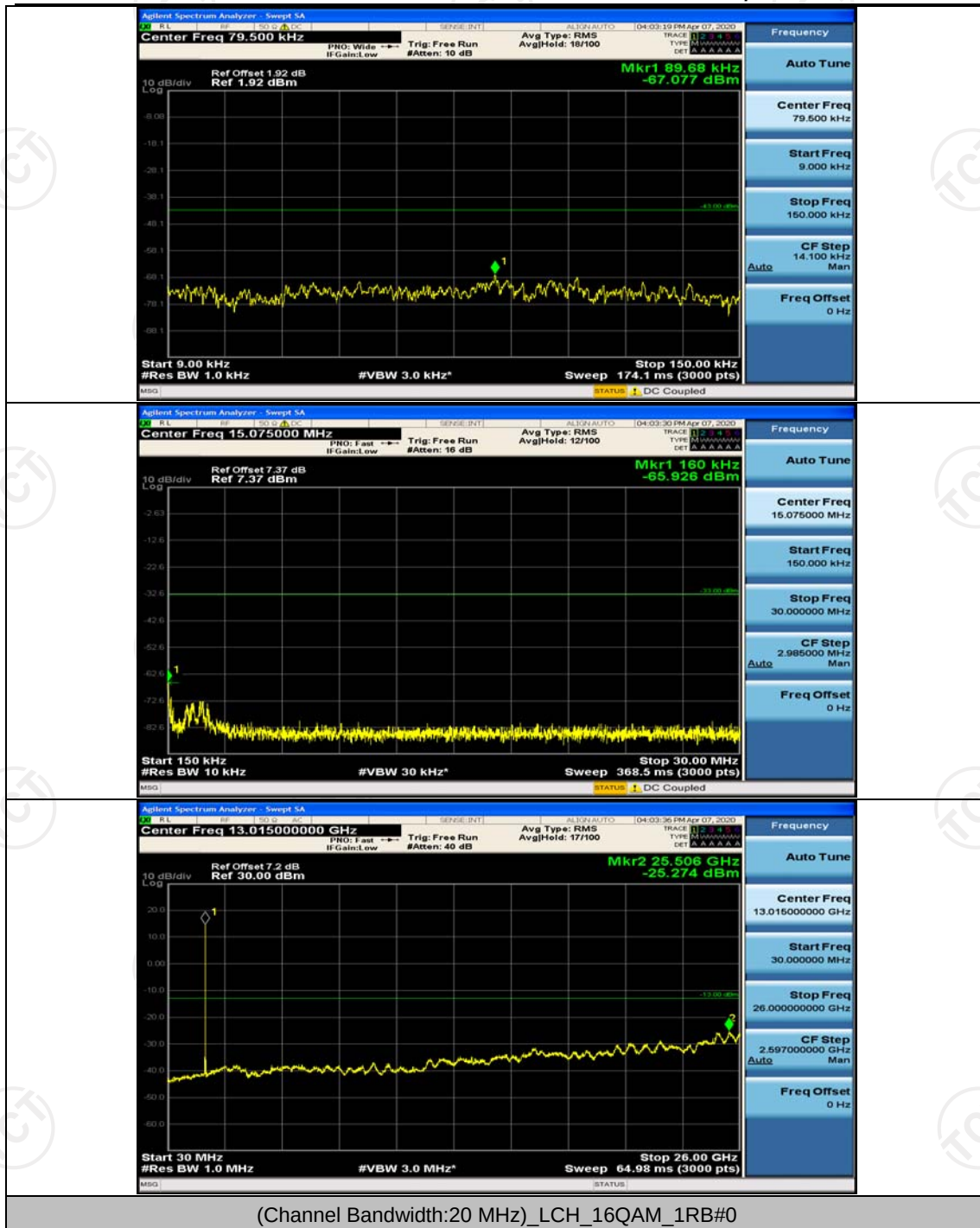


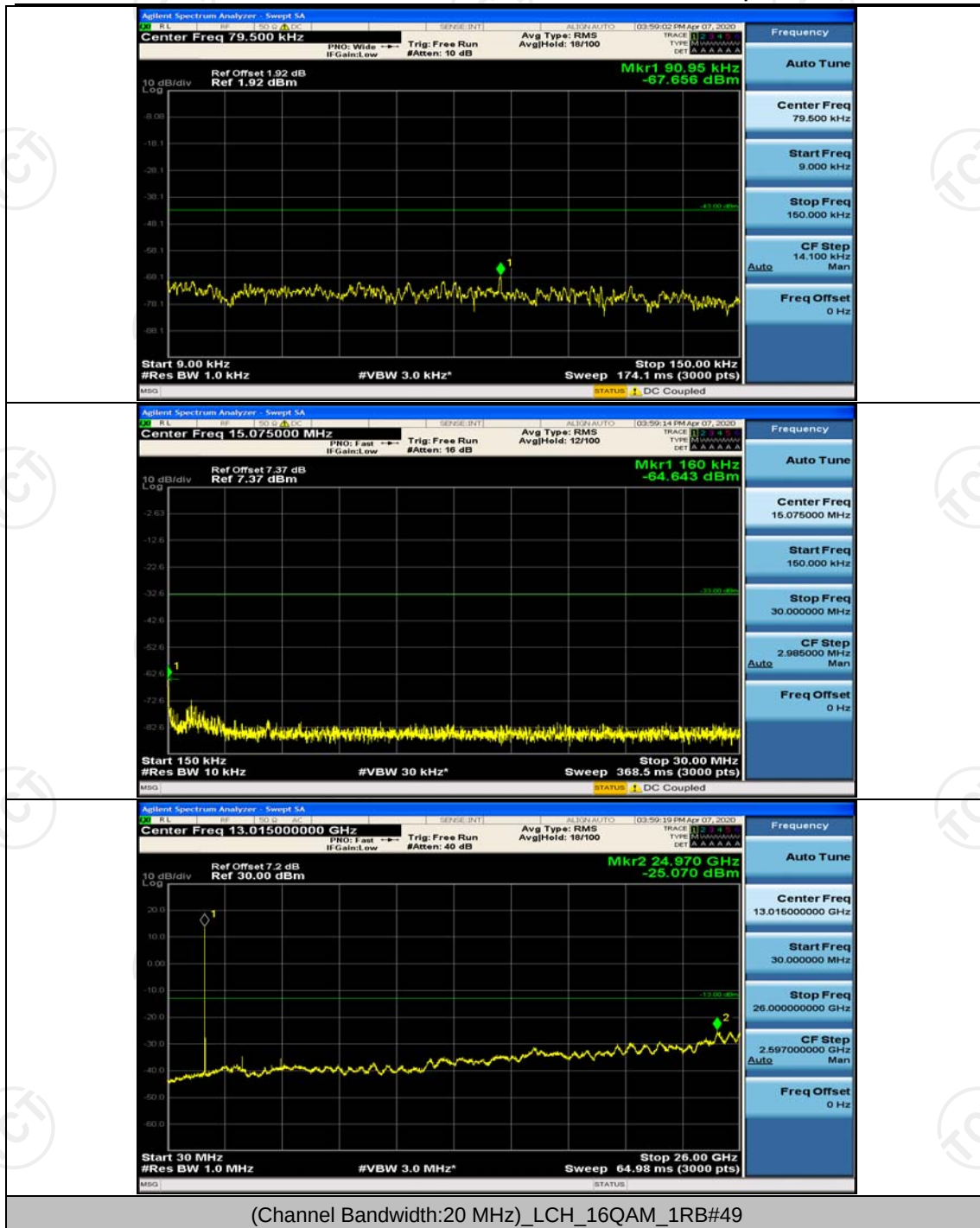


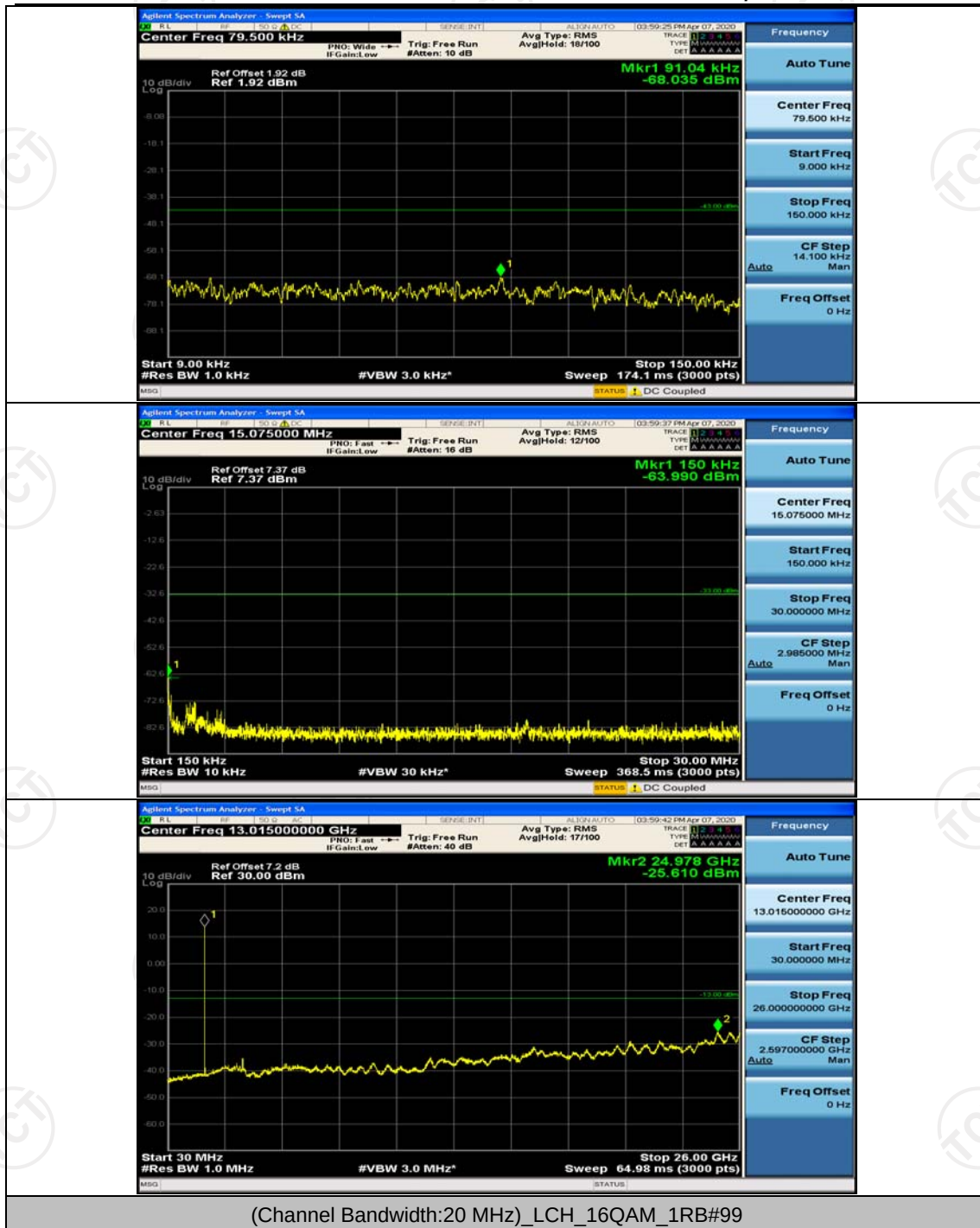


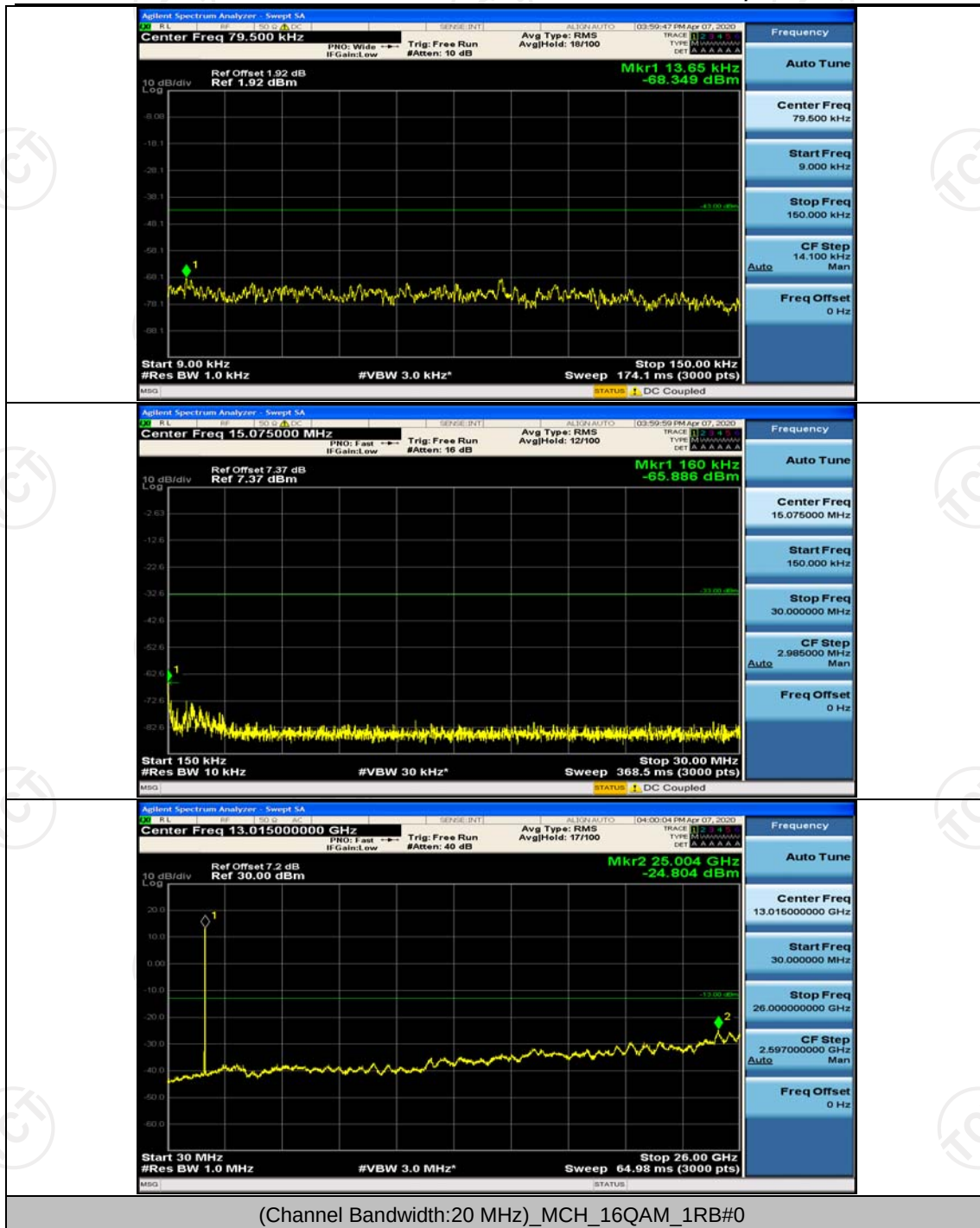


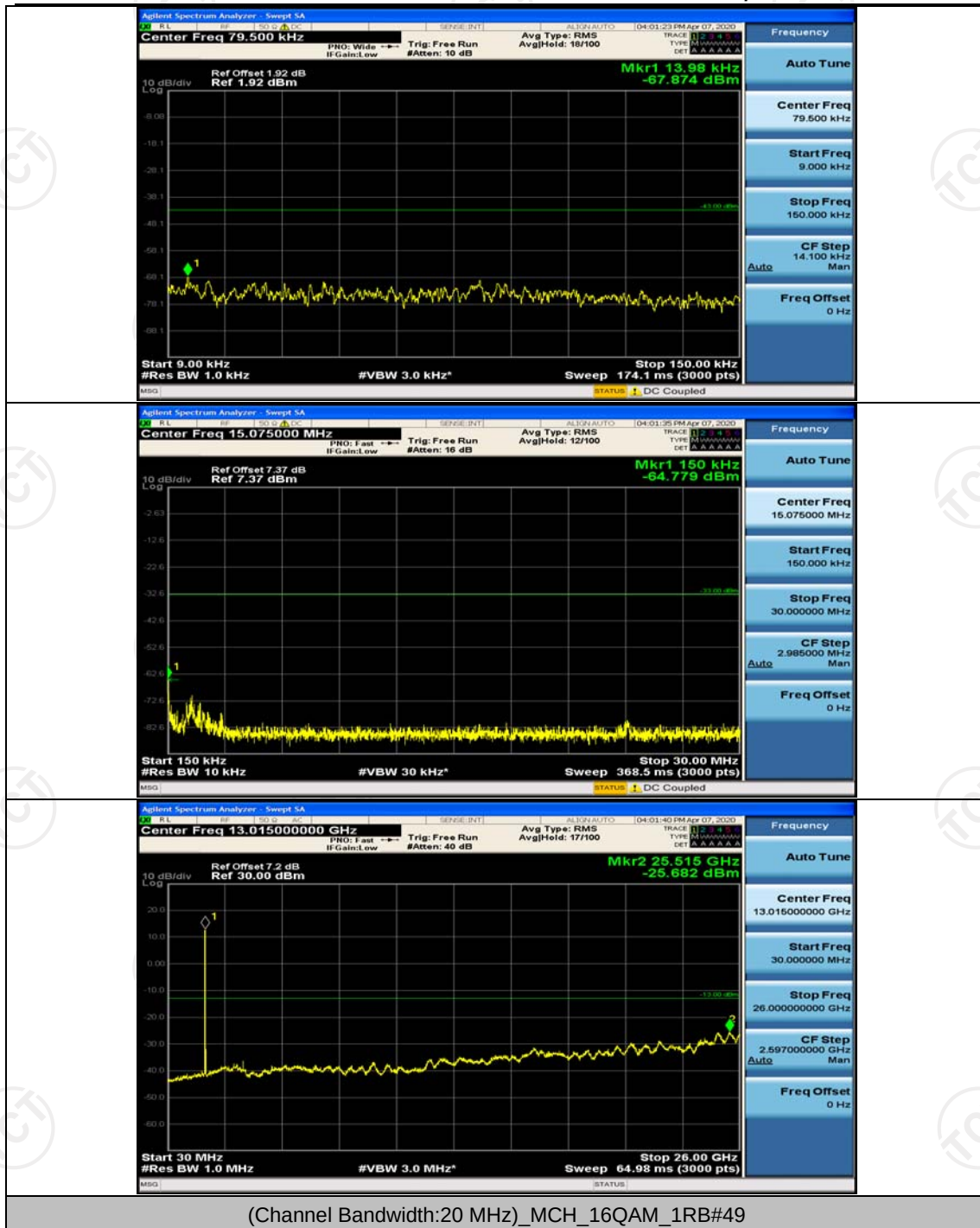


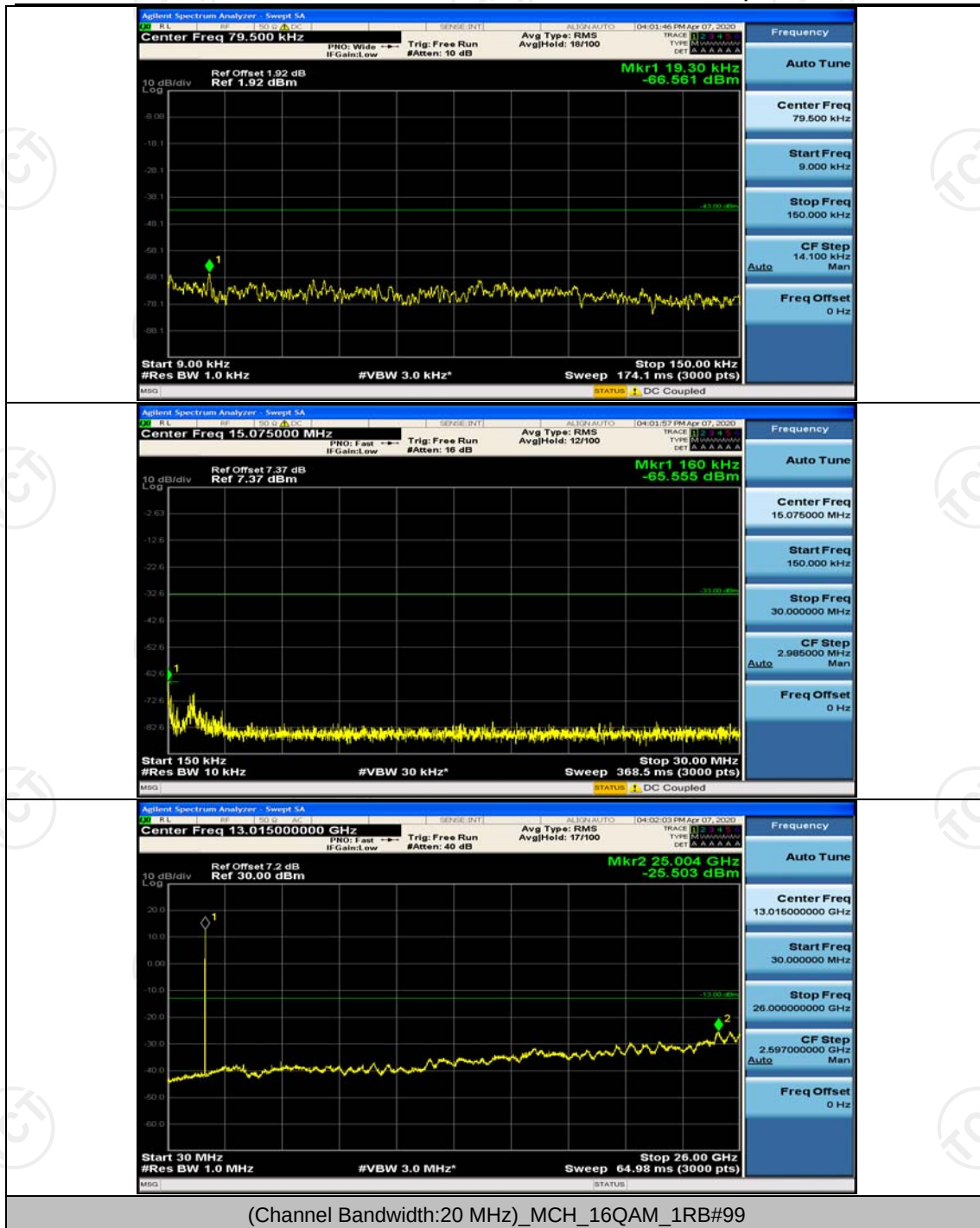


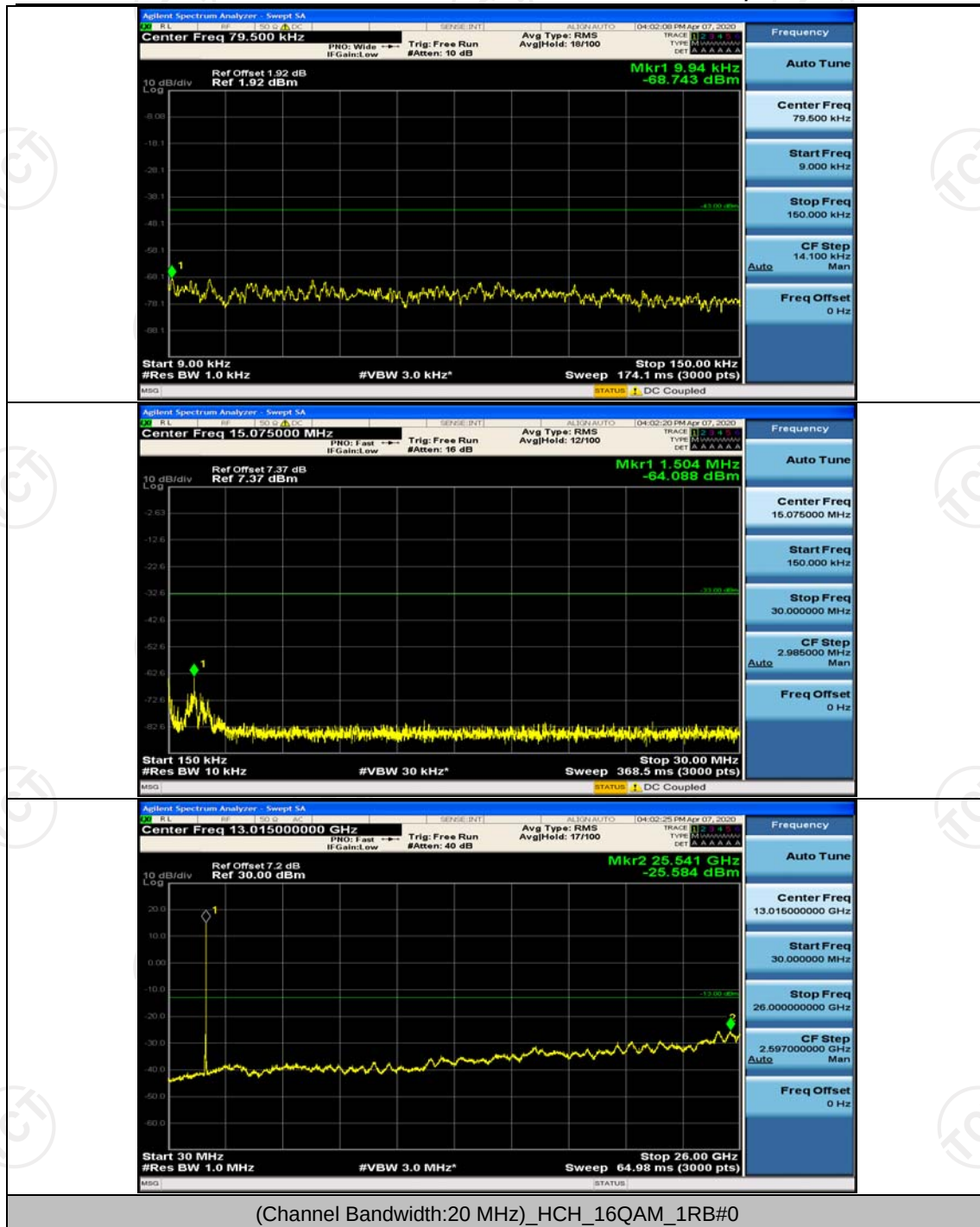


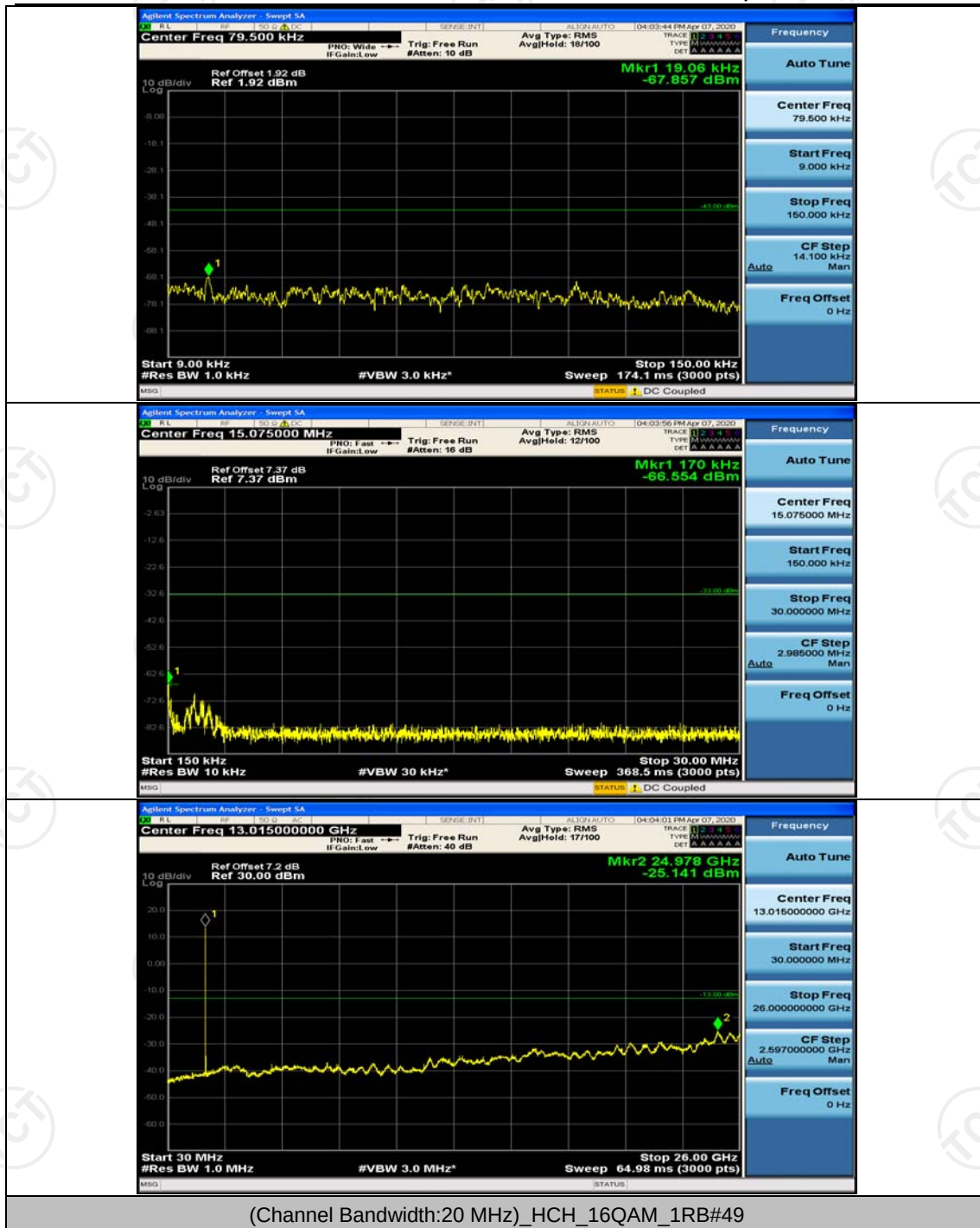


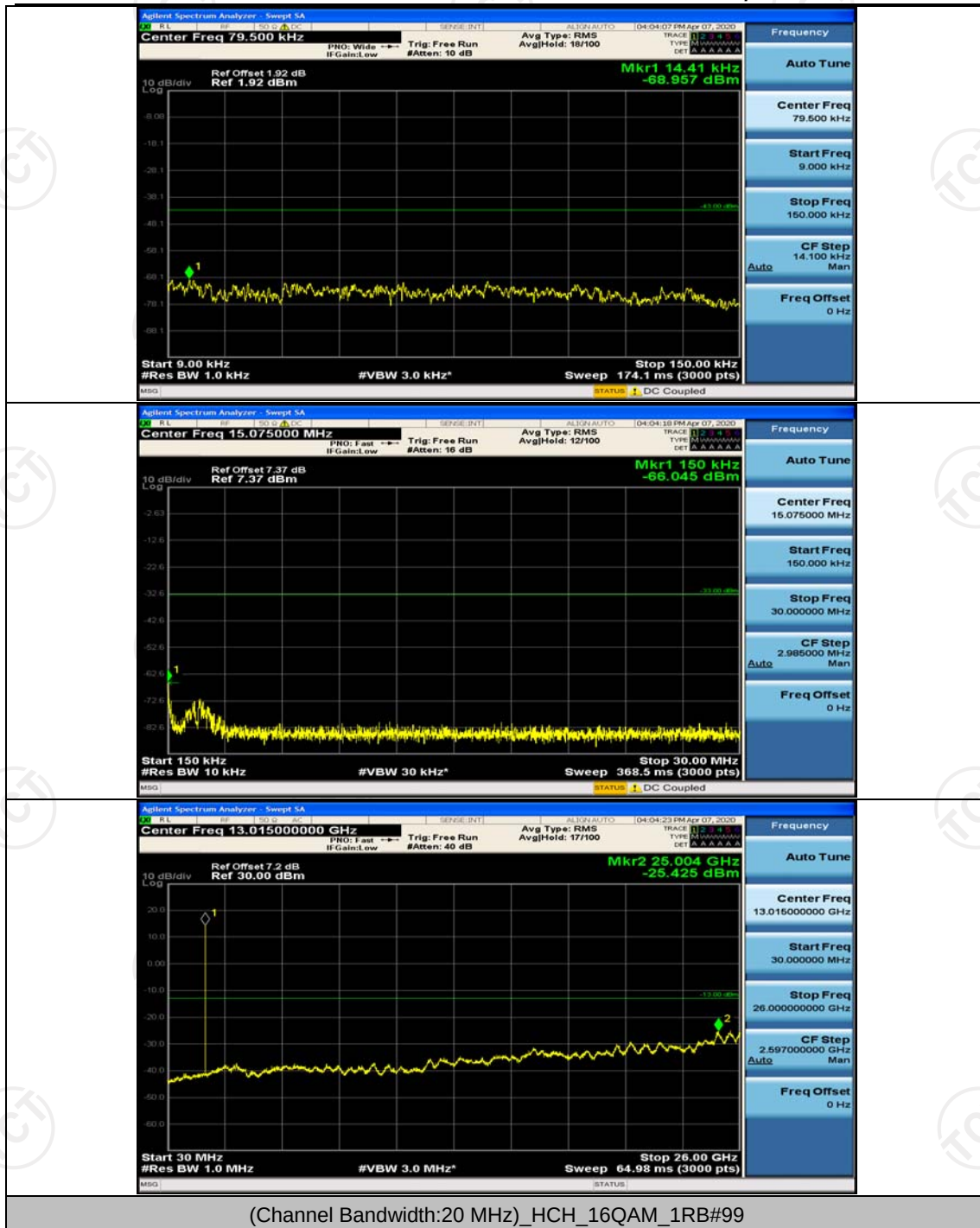


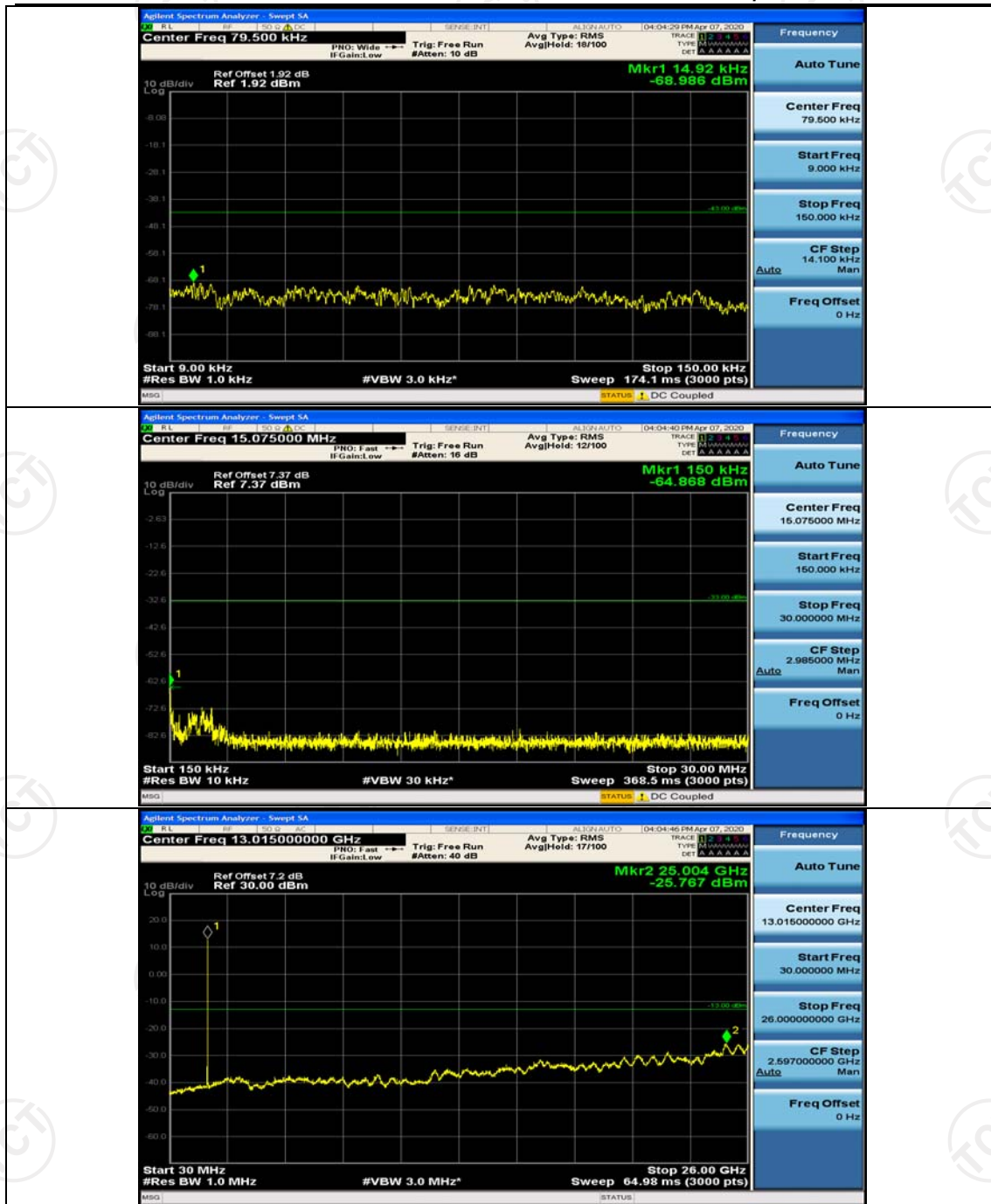












Appendix F: Frequency Stability

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	-0.50	-0.000293	± 2.5	PASS
		3.7	25	1.24	0.000728	± 2.5	PASS
		4.2	25	-1.53	-0.000872	± 2.5	PASS
	MCH	3.4	25	1.32	0.000740	± 2.5	PASS
		3.7	25	0.03	0.000016	± 2.5	PASS
		4.2	25	1.32	0.000740	± 2.5	PASS
	HCH	3.4	25	0.49	0.000284	± 2.5	PASS
		3.7	25	0.53	0.000297	± 2.5	PASS
		4.2	25	0.64	0.000367	± 2.5	PASS
16QAM	LCH	3.4	25	-0.63	-0.000368	± 2.5	PASS
		3.7	25	-0.24	-0.000142	± 2.5	PASS
		4.2	25	1.76	0.001028	± 2.5	PASS
	MCH	3.4	25	-0.27	-0.000159	± 2.5	PASS
		3.7	25	0.51	0.000293	± 2.5	PASS
		4.2	25	-1.24	-0.000709	± 2.5	PASS
	HCH	3.4	25	-1.87	-0.001068	± 2.5	PASS
		3.7	25	-0.59	-0.000334	± 2.5	PASS
		4.2	25	-1.39	-0.000791	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	3.7	-30	1.79	0.001005	± 2.5	PASS
		3.7	-20	1.96	0.001102	± 2.5	PASS
		3.7	-10	1.17	0.000660	± 2.5	PASS
		3.7	0	2.10	0.001182	± 2.5	PASS
		3.7	10	-1.49	-0.000848	± 2.5	PASS
		3.7	20	1.02	0.000594	± 2.5	PASS
		3.7	30	1.00	0.000585	± 2.5	PASS
		3.7	40	1.34	0.000786	± 2.5	PASS
	MCH	3.7	50	1.00	0.000585	± 2.5	PASS
		3.7	-30	2.00	0.001170	± 2.5	PASS
		3.7	-20	1.60	0.000936	± 2.5	PASS
		3.7	-10	1.57	0.000919	± 2.5	PASS
		3.7	0	1.57	0.000919	± 2.5	PASS
		3.7	10	2.33	0.001362	± 2.5	PASS
		3.7	20	-0.16	-0.000090	± 2.5	PASS
		3.7	30	0.40	0.000228	± 2.5	PASS
3.7	40	0.20	0.000114	± 2.5	PASS		

	HCH	3.7	50	-0.54	-0.000310	± 2.5	PASS
		3.7	-30	0.20	0.000114	± 2.5	PASS
		3.7	-20	0.59	0.000334	± 2.5	PASS
		3.7	-10	0.19	0.000106	± 2.5	PASS
		3.7	0	0.51	0.000293	± 2.5	PASS
		3.7	10	0.19	0.000105	± 2.5	PASS
		3.7	20	-1.90	-0.001069	± 2.5	PASS
		3.7	30	-0.51	-0.000289	± 2.5	PASS
		3.7	40	0.26	0.000145	± 2.5	PASS
		3.7	50	1.50	0.000844	± 2.5	PASS
16QAM	LCH	3.7	-30	1.46	0.000820	± 2.5	PASS
		3.7	-20	1.37	0.000772	± 2.5	PASS
		3.7	-10	2.63	0.001480	± 2.5	PASS
		3.7	0	3.03	0.001705	± 2.5	PASS
		3.7	10	1.83	0.001069	± 2.5	PASS
		3.7	20	1.07	0.000627	± 2.5	PASS
		3.7	30	0.37	0.000217	± 2.5	PASS
		3.7	40	0.69	0.000401	± 2.5	PASS
		3.7	50	0.73	0.000426	± 2.5	PASS
	MCH	3.7	-30	1.02	0.000571	± 2.5	PASS
		3.7	-20	0.16	0.000089	± 2.5	PASS
		3.7	-10	-0.97	-0.000547	± 2.5	PASS
		3.7	0	0.24	0.000137	± 2.5	PASS
		3.7	10	1.22	0.000684	± 2.5	PASS
		3.7	20	0.17	0.000098	± 2.5	PASS
		3.7	30	-0.23	-0.000130	± 2.5	PASS
		3.7	40	0.21	0.000122	± 2.5	PASS
		3.7	50	0.83	0.000473	± 2.5	PASS
	HCH	3.7	-30	-1.00	-0.000571	± 2.5	PASS
		3.7	-20	-1.49	-0.000848	± 2.5	PASS
		3.7	-10	-0.64	-0.000367	± 2.5	PASS
		3.7	0	-2.05	-0.001166	± 2.5	PASS
		3.7	10	-2.55	-0.001451	± 2.5	PASS
		3.7	20	2.06	0.001158	± 2.5	PASS
		3.7	30	0.54	0.000306	± 2.5	PASS
		3.7	40	0.86	0.000482	± 2.5	PASS
		3.7	50	1.03	0.000579	± 2.5	PASS