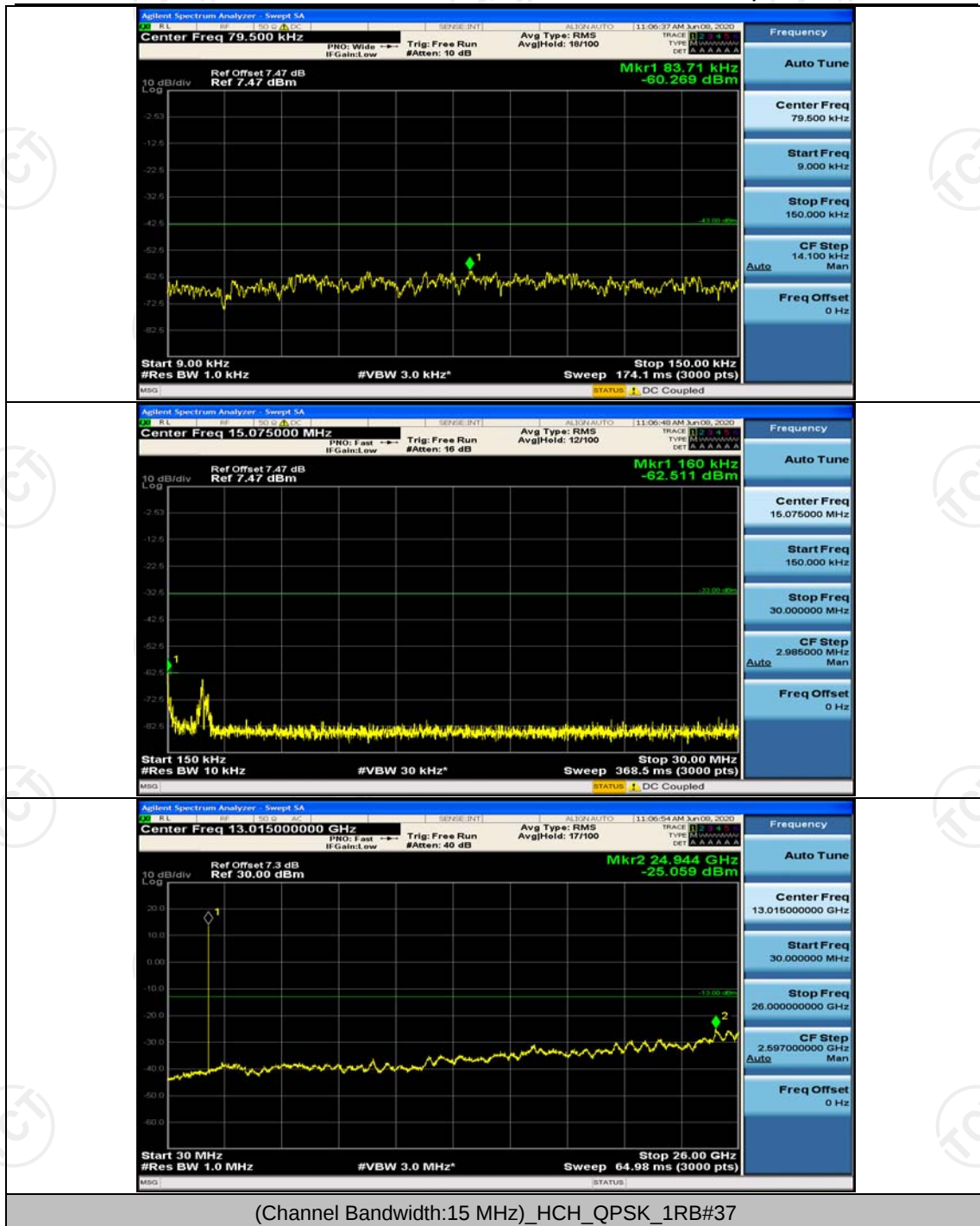
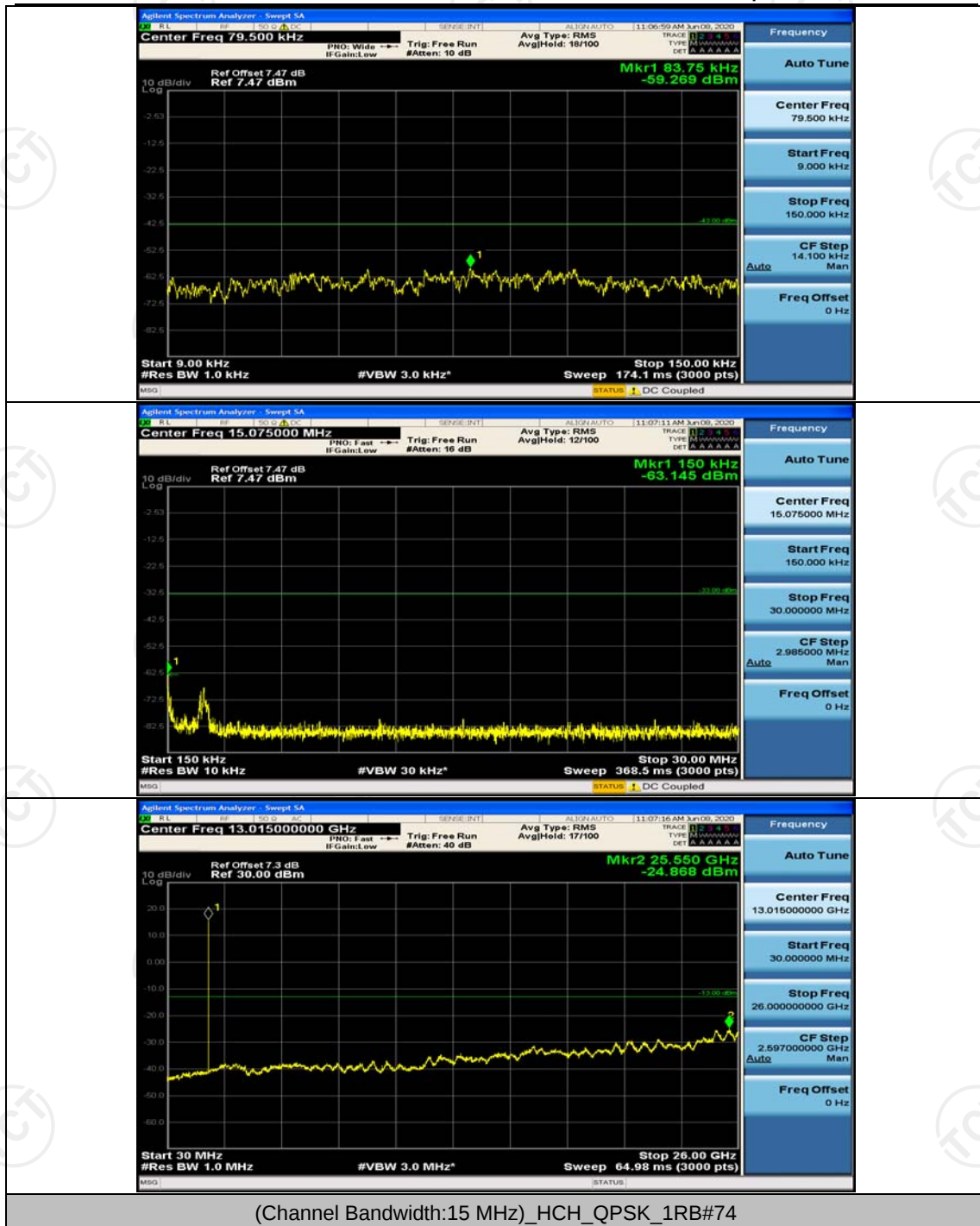
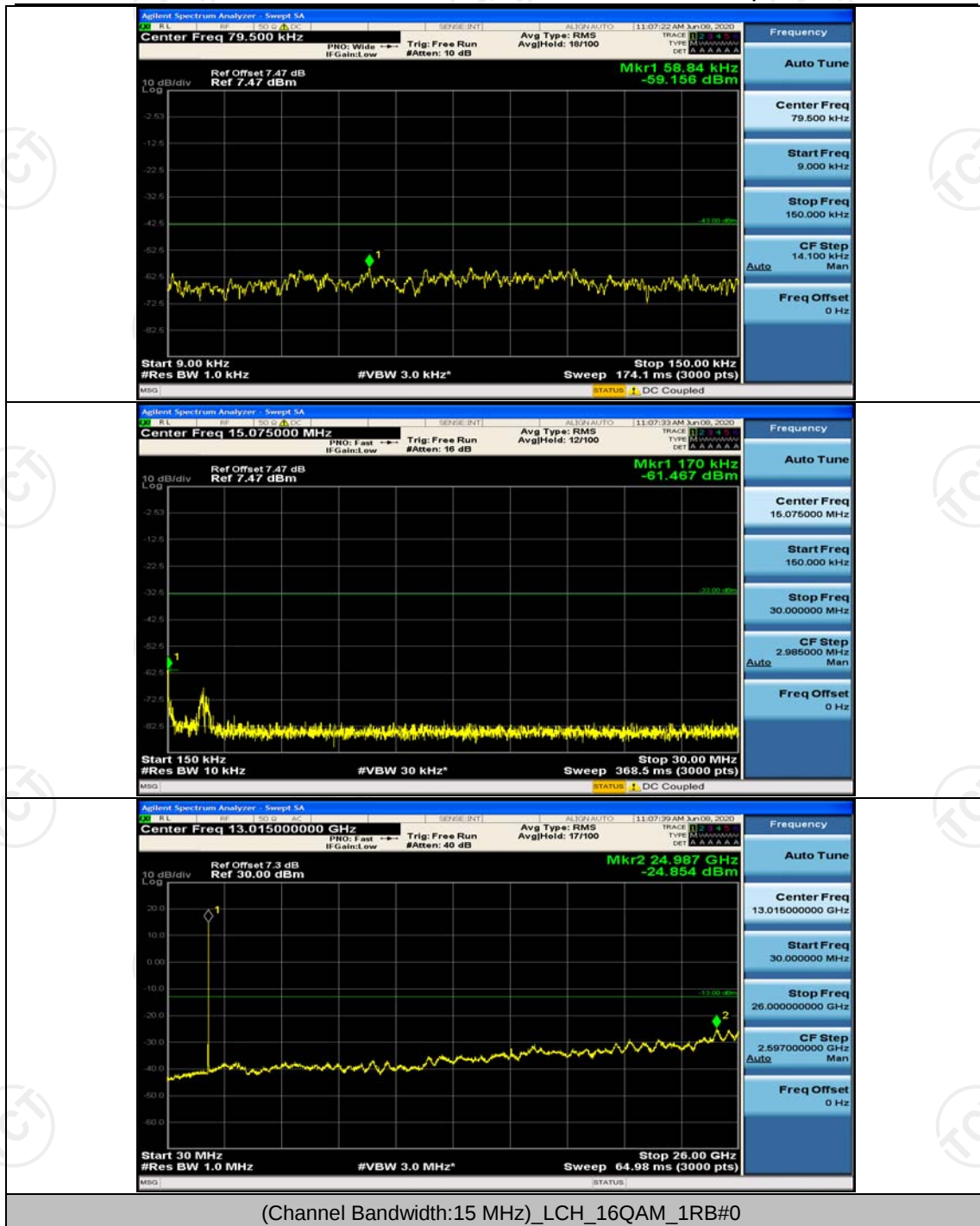
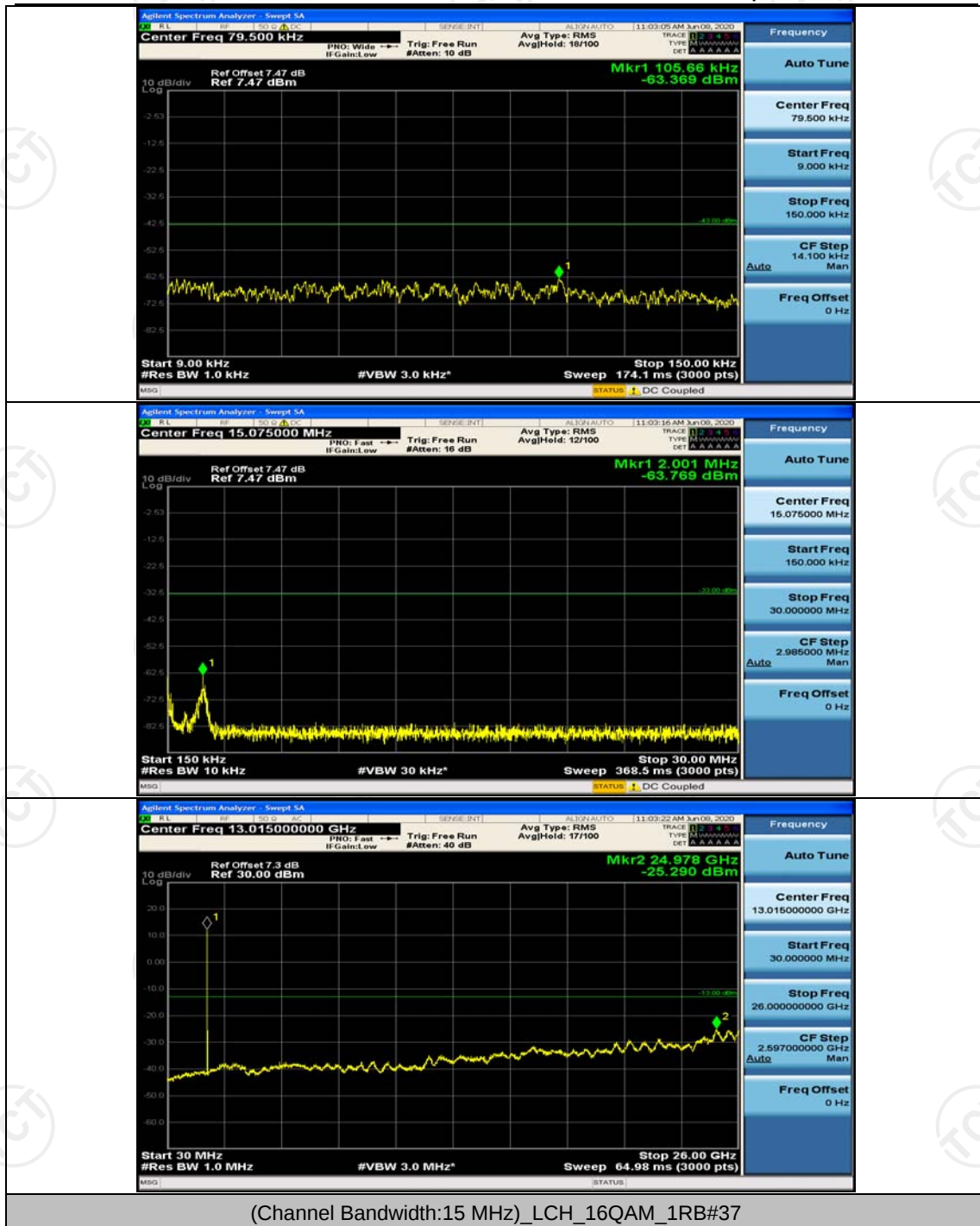
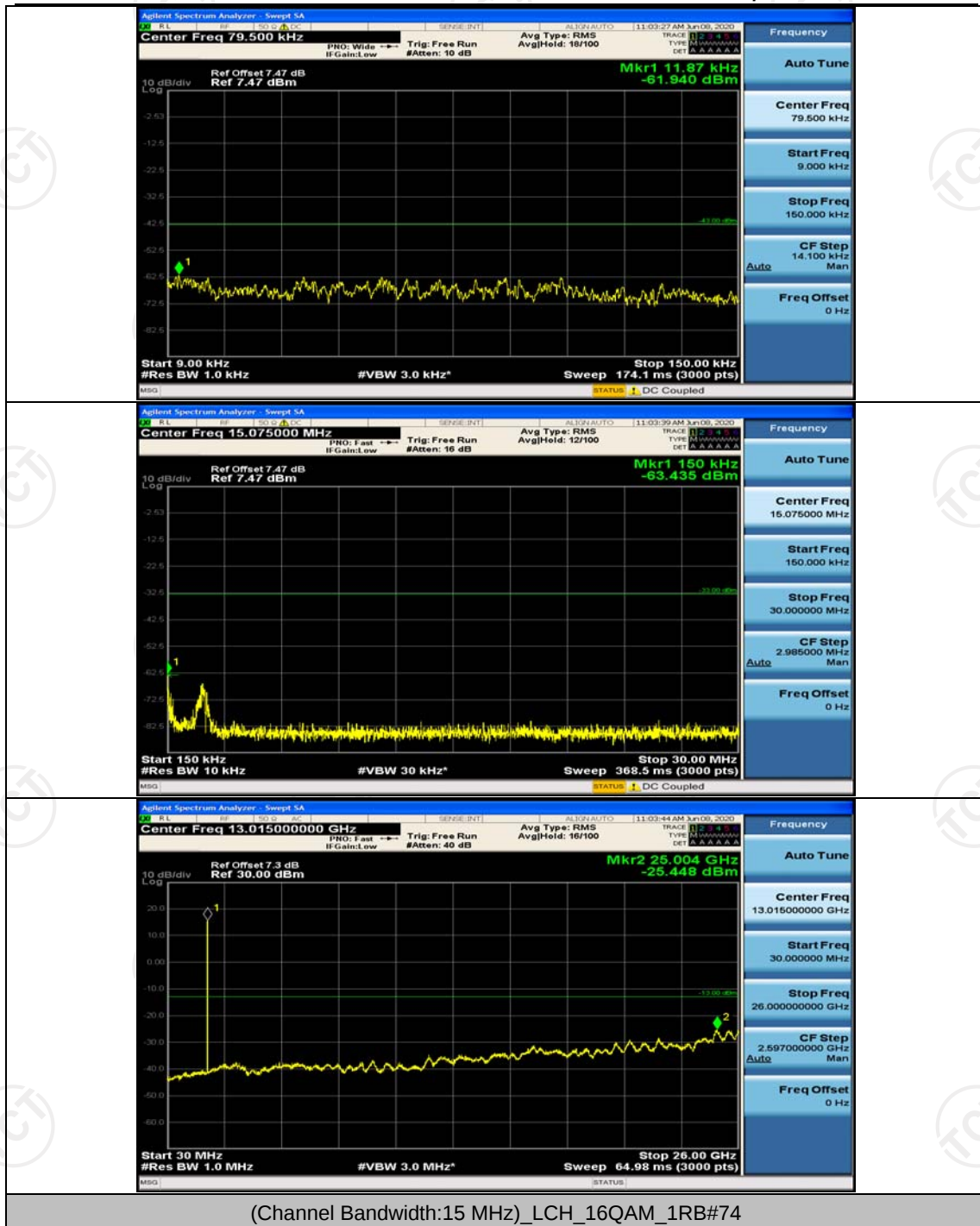


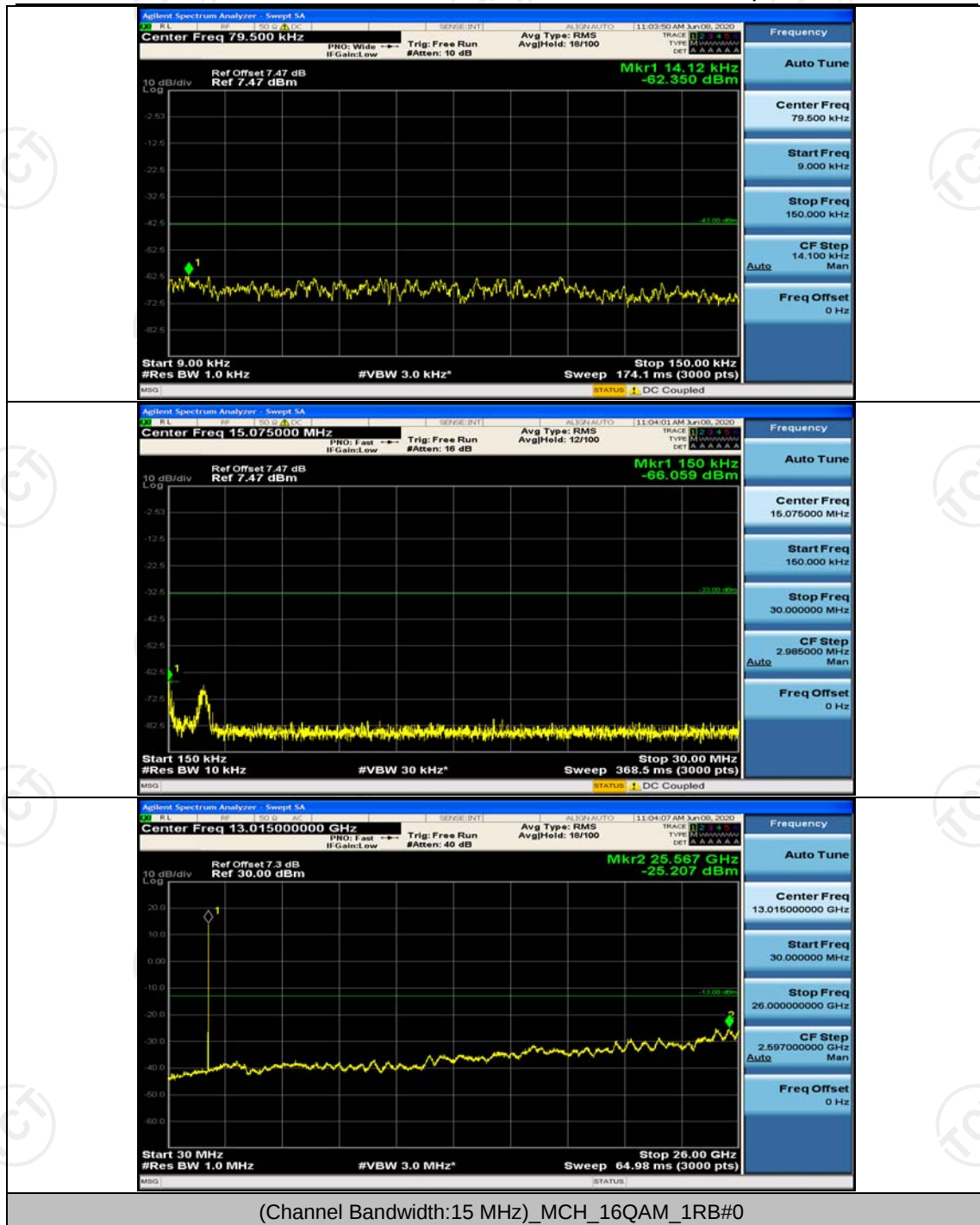


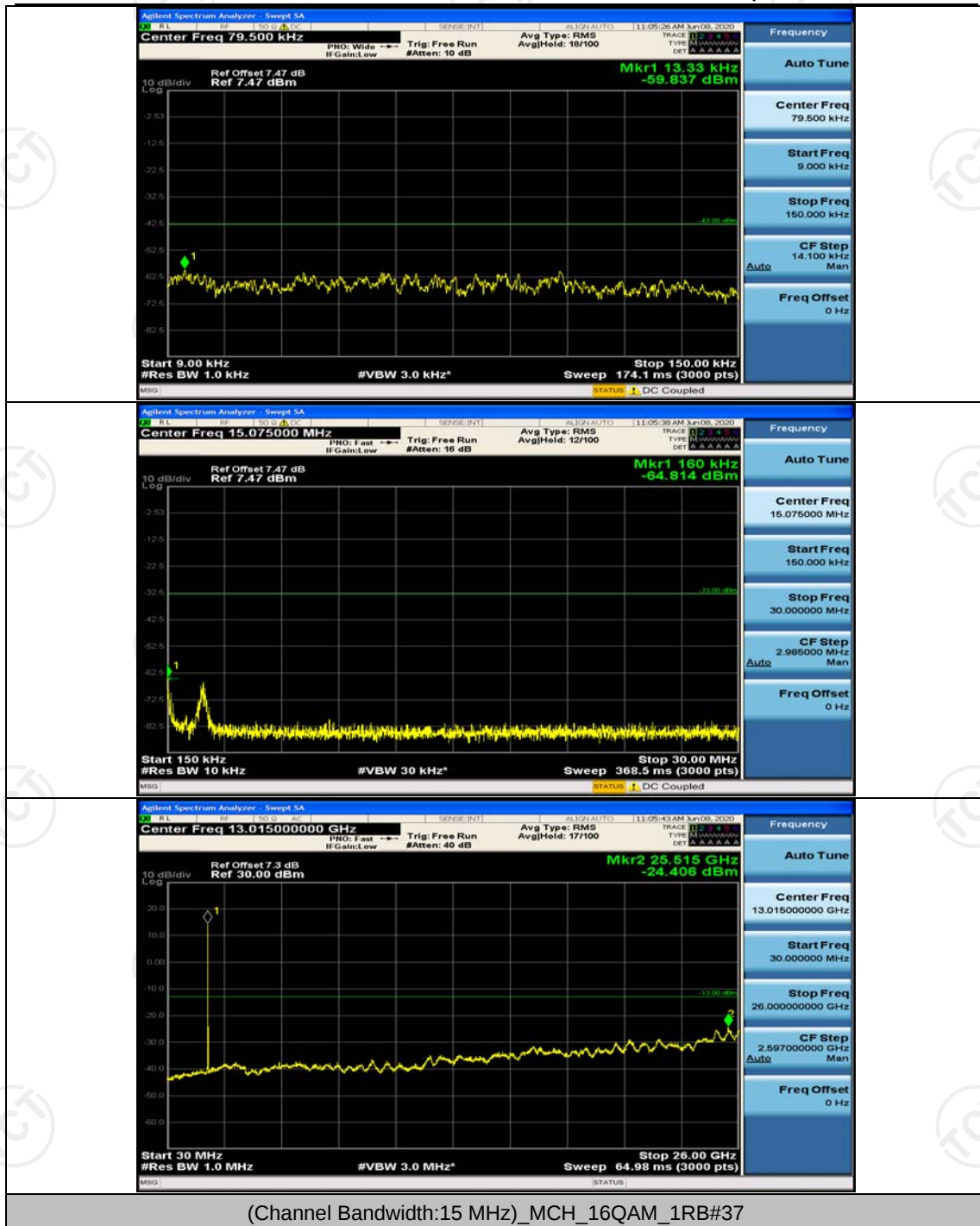


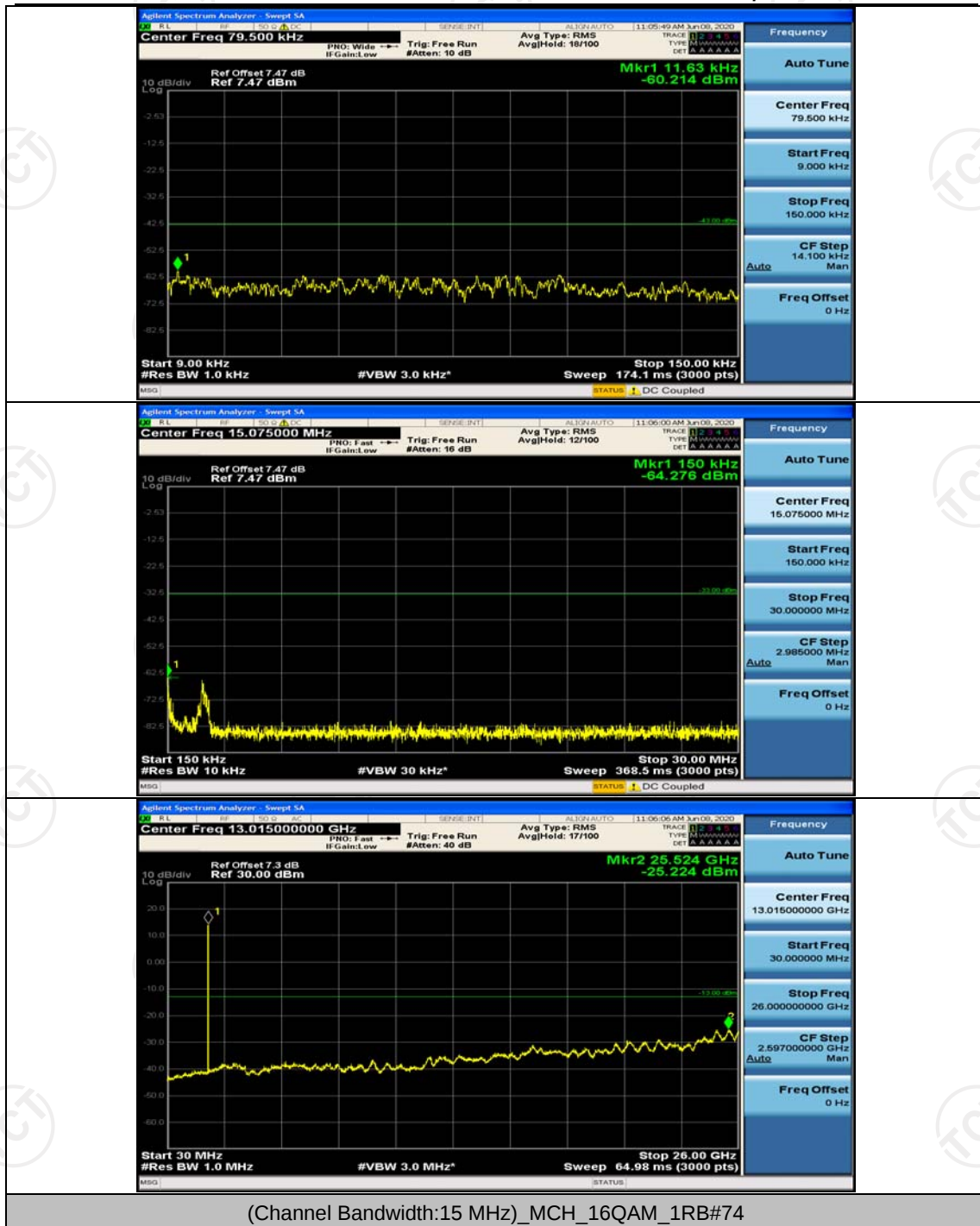


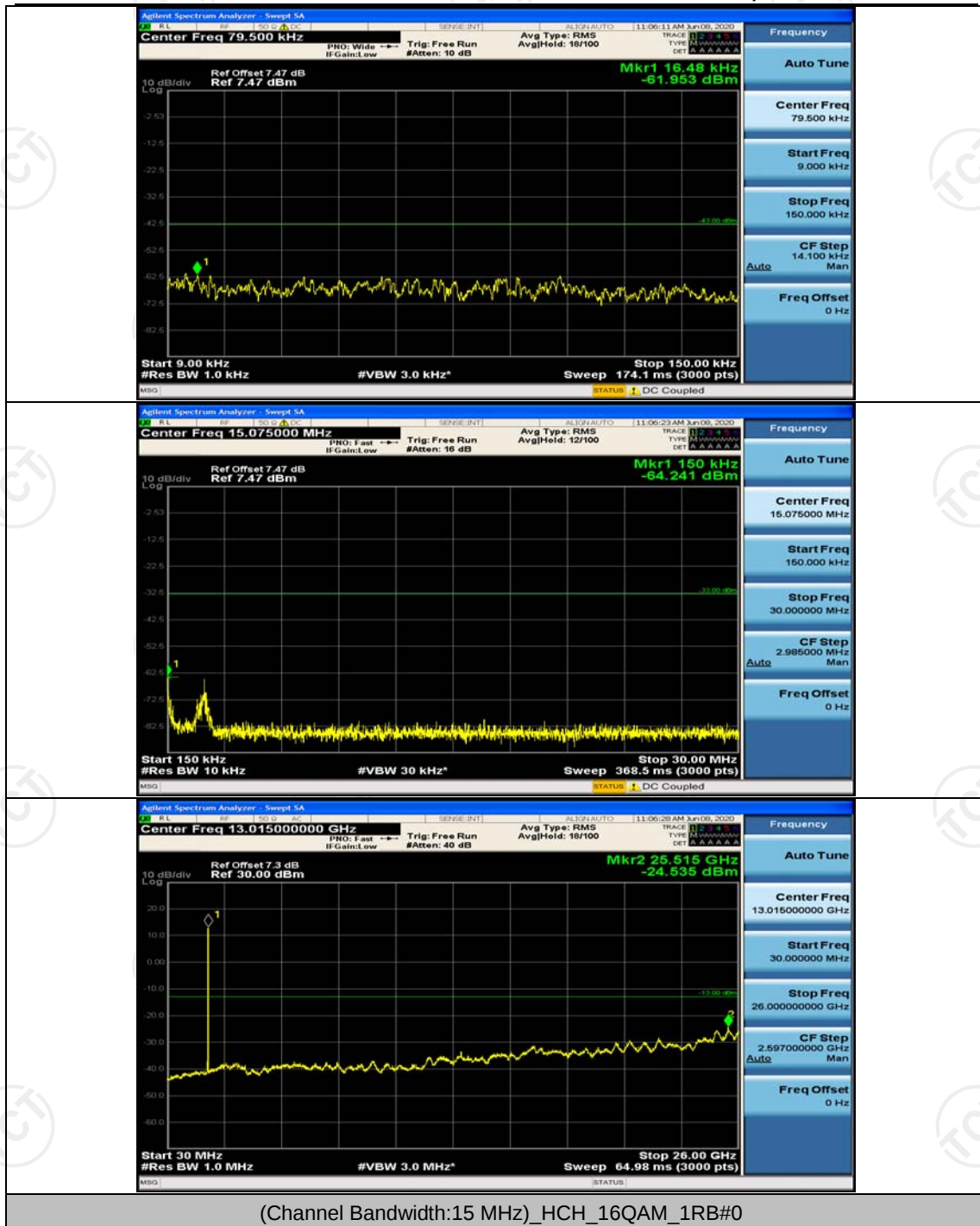


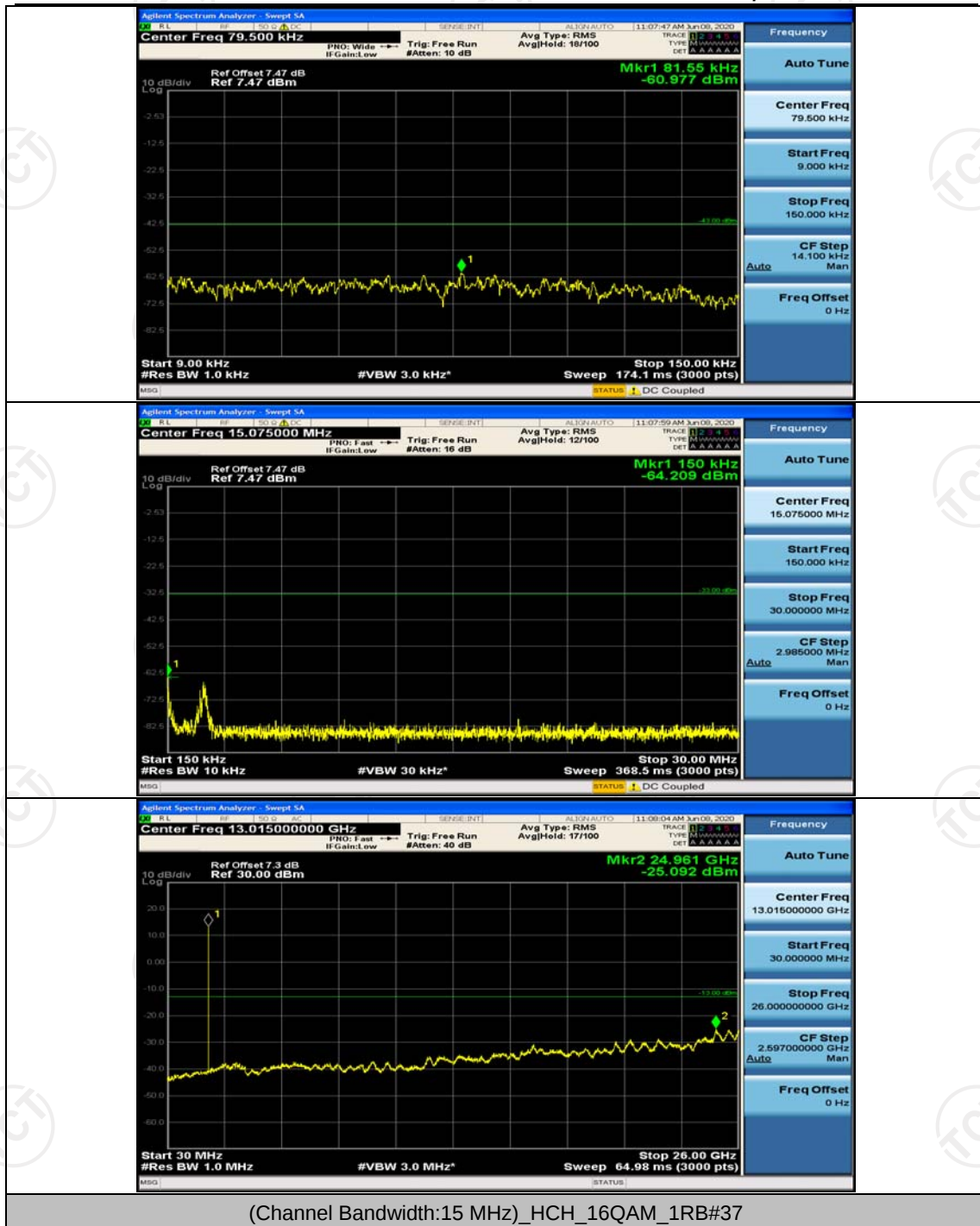


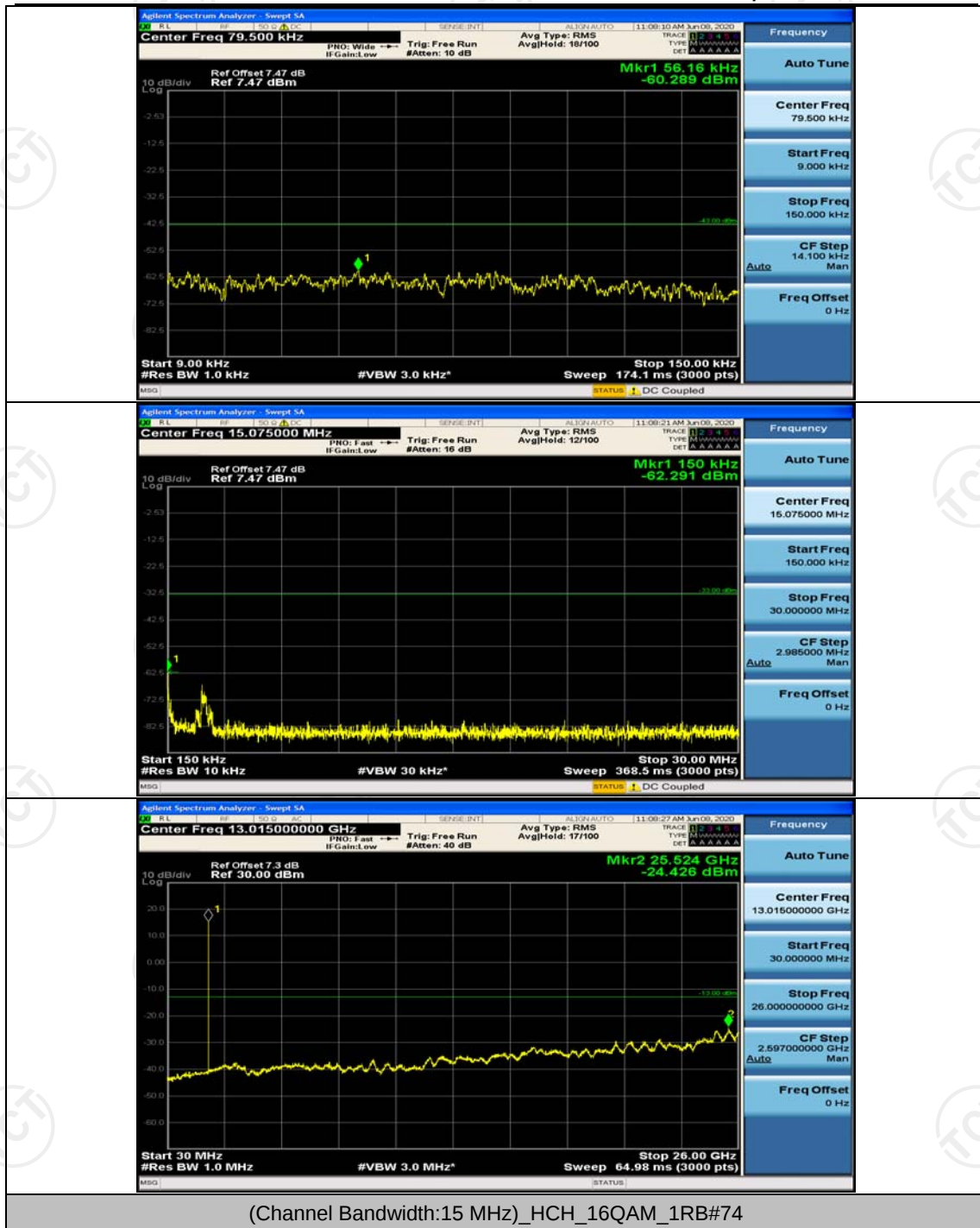


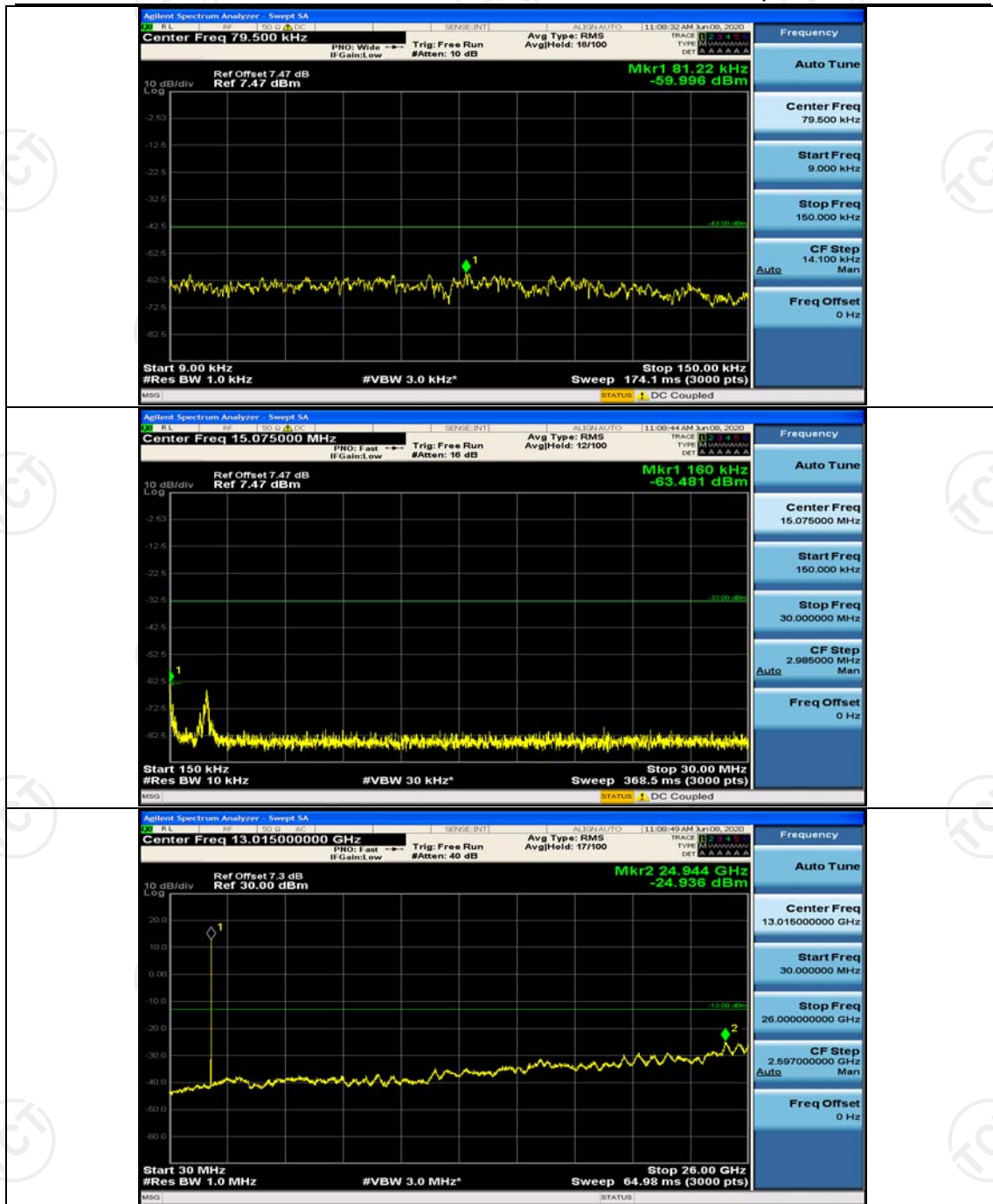




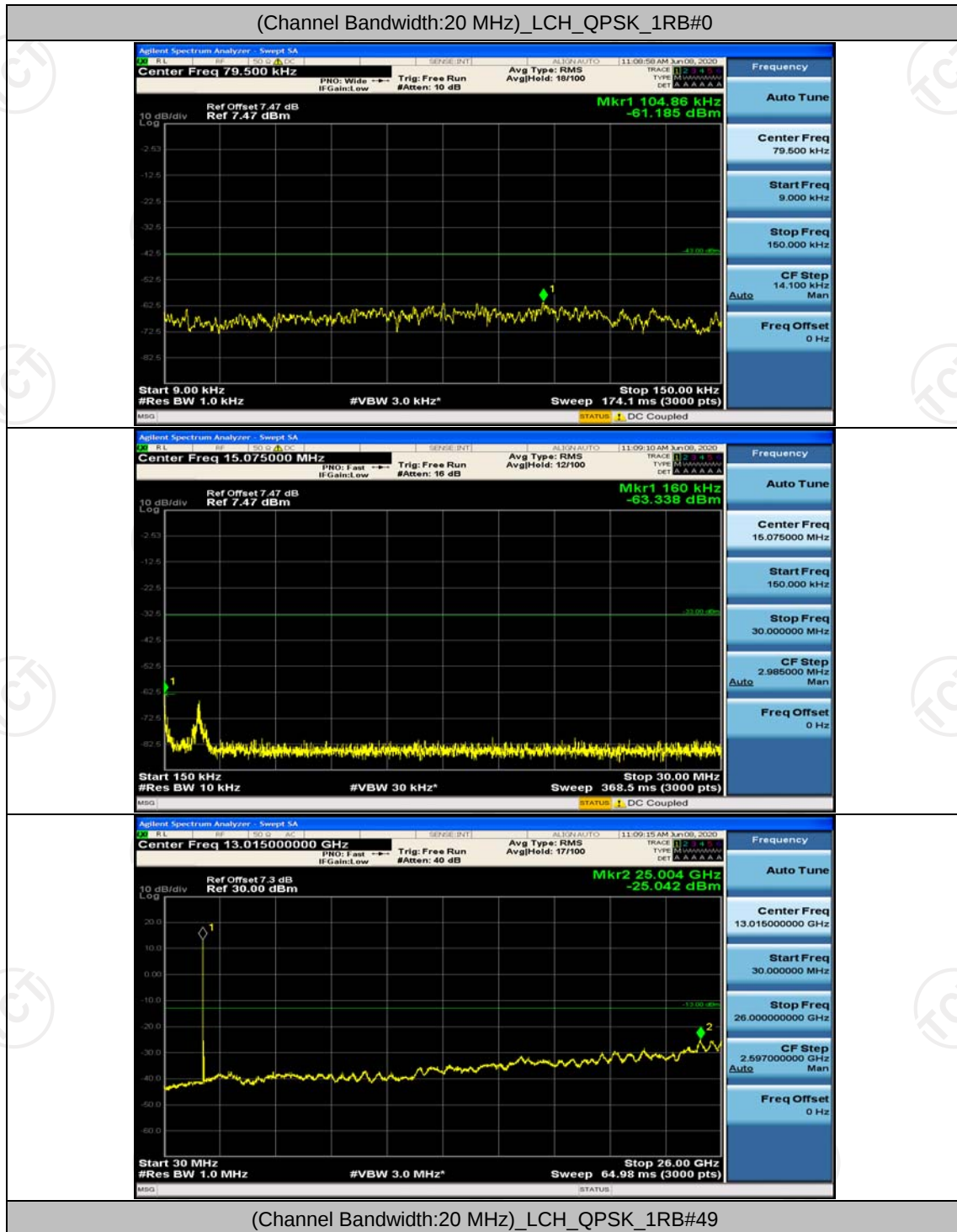


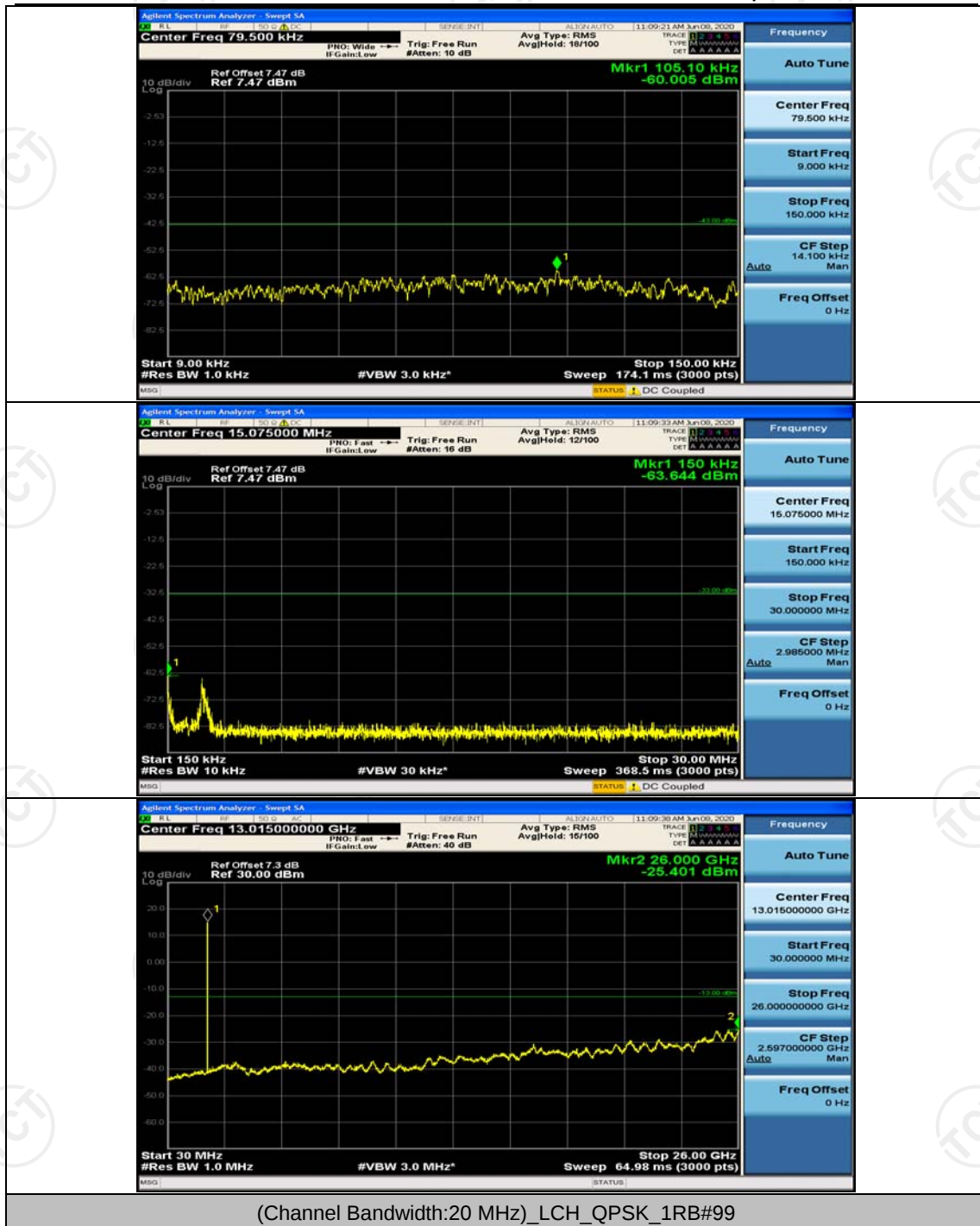


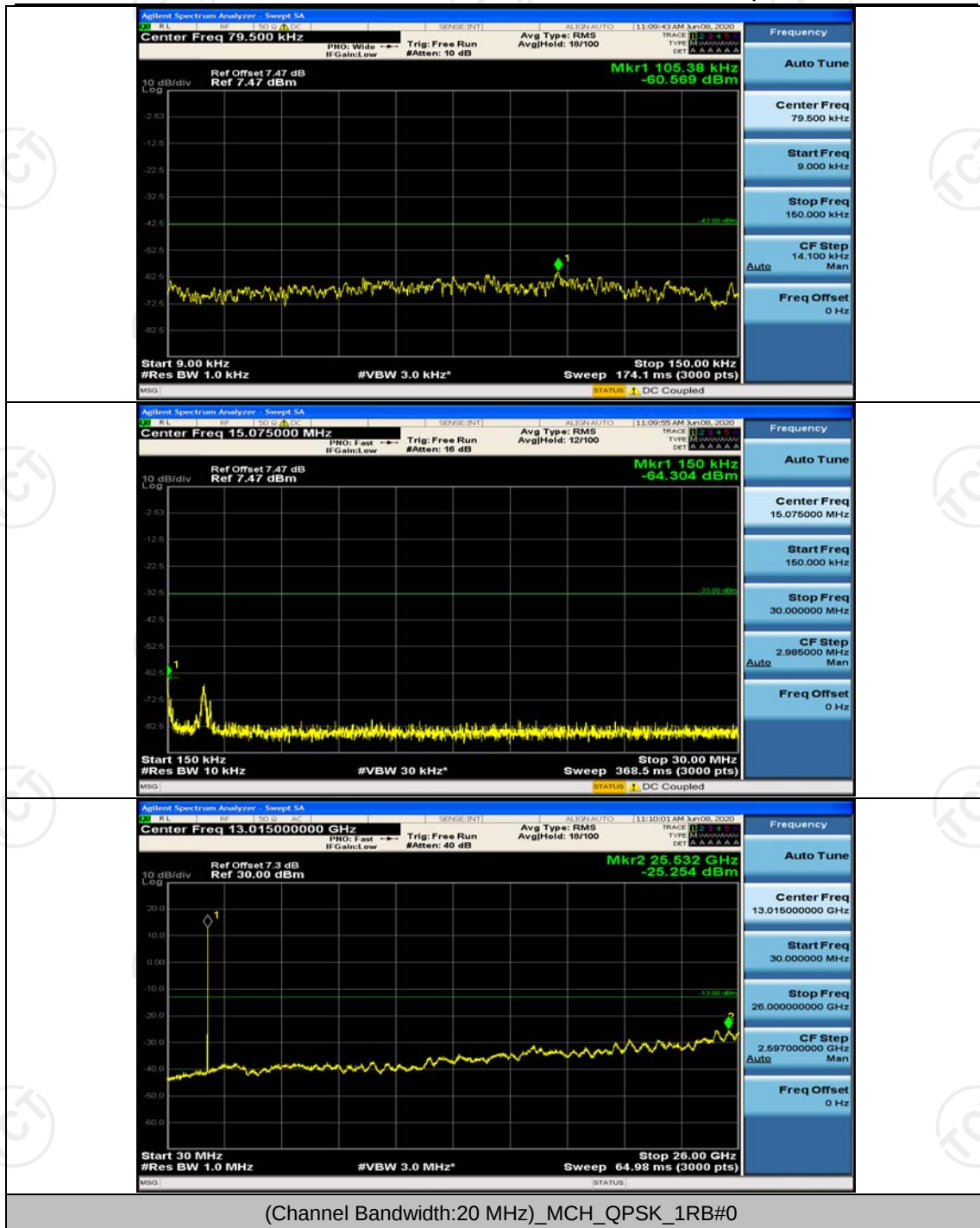


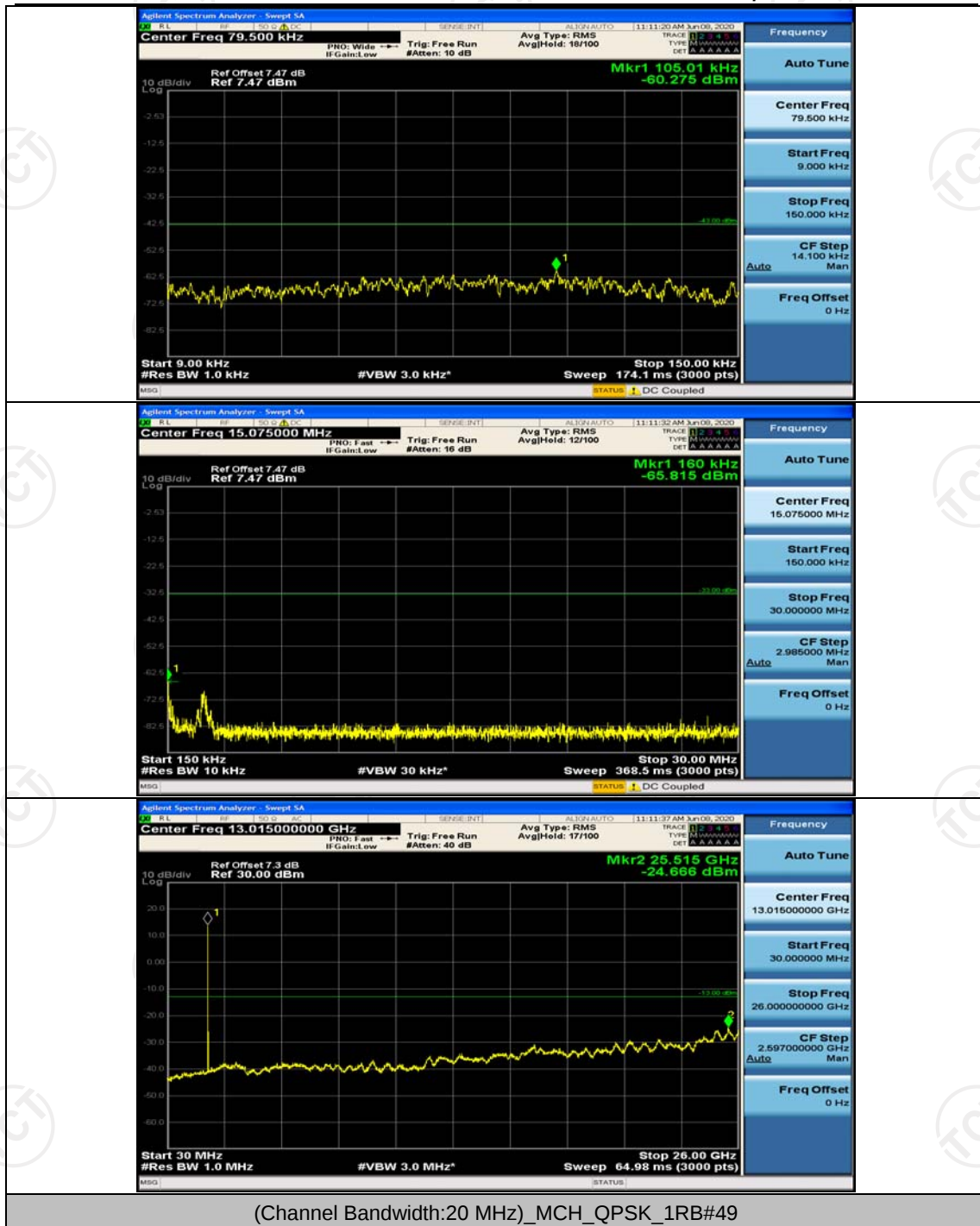


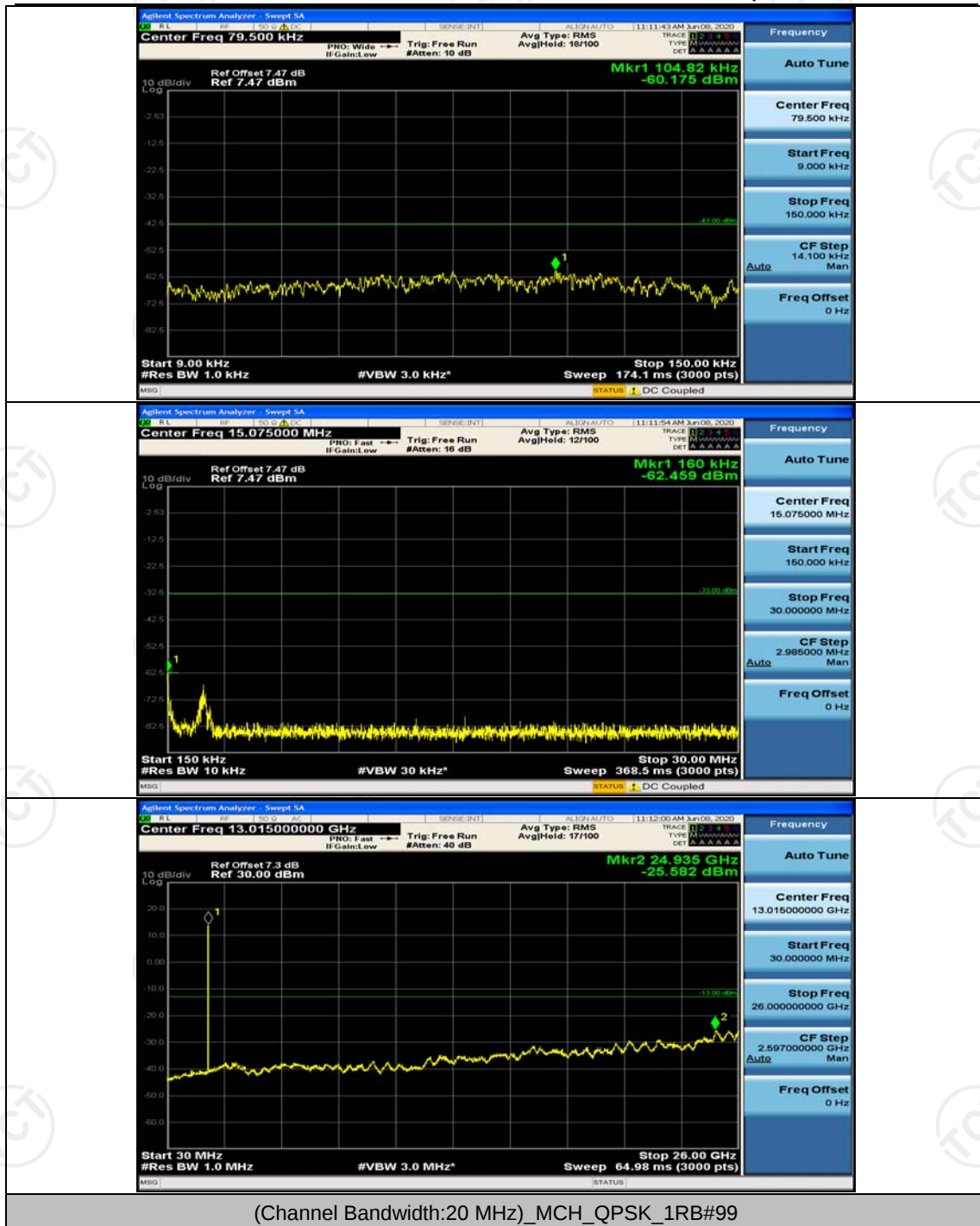
Channel Bandwidth: 20 MHz

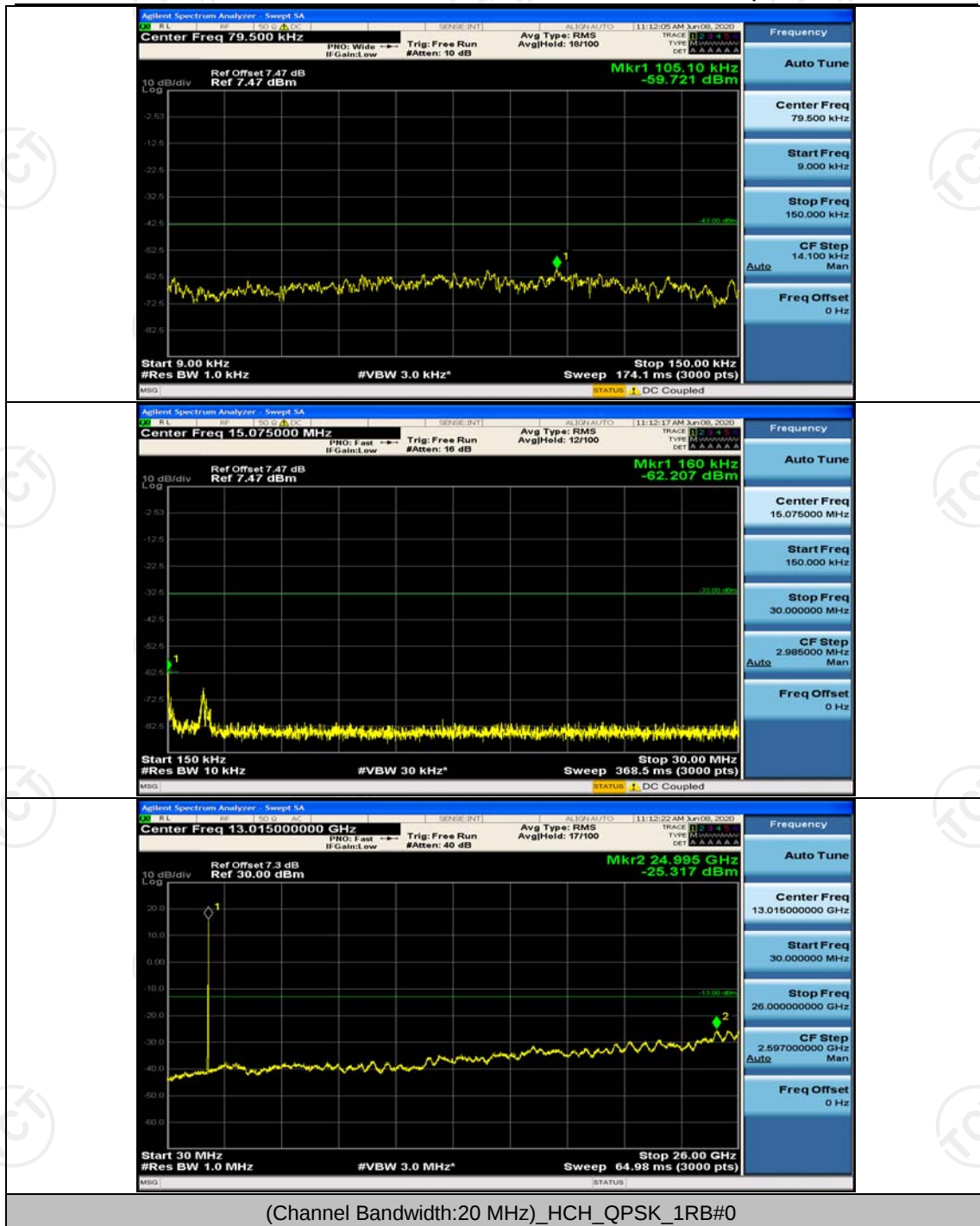


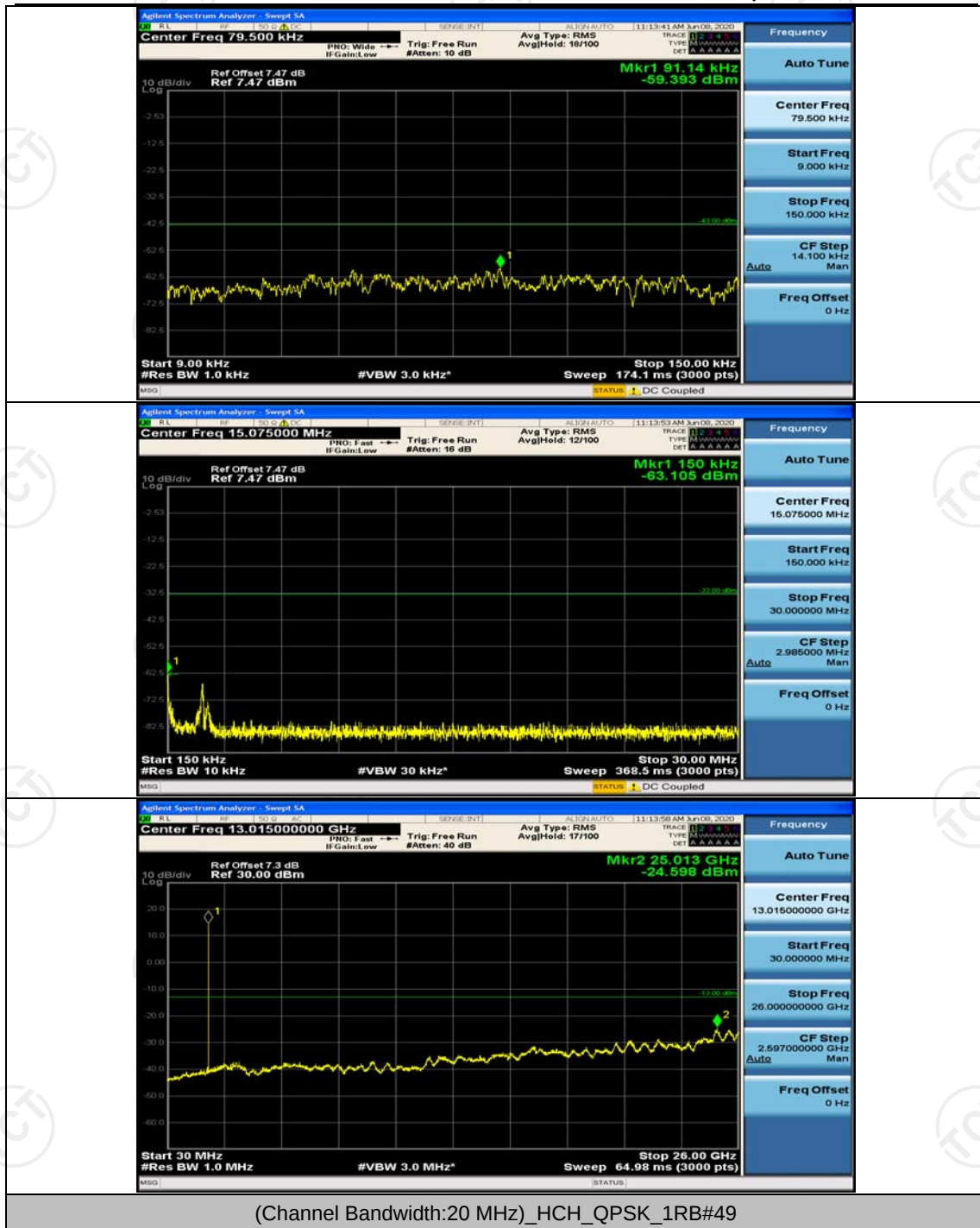


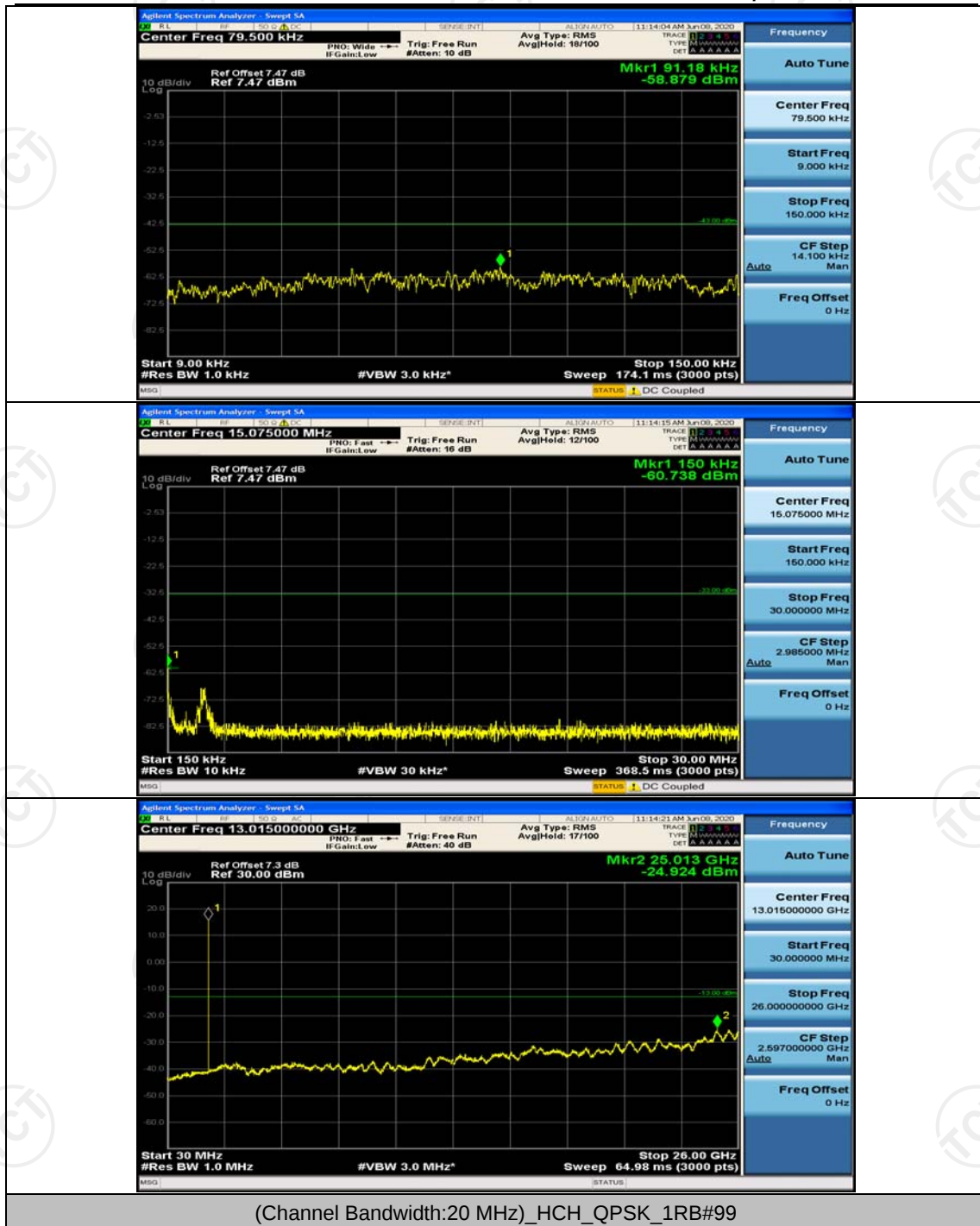


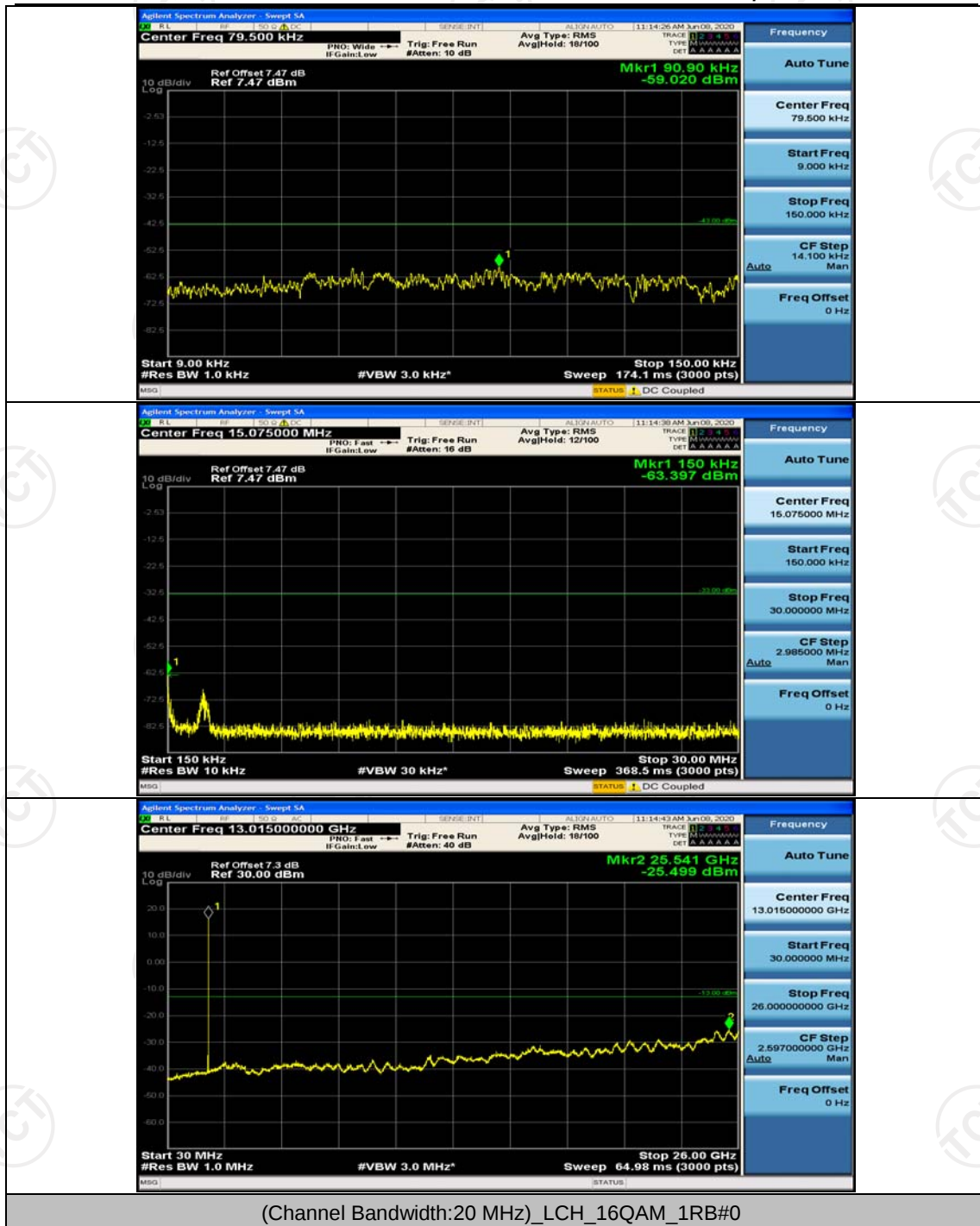


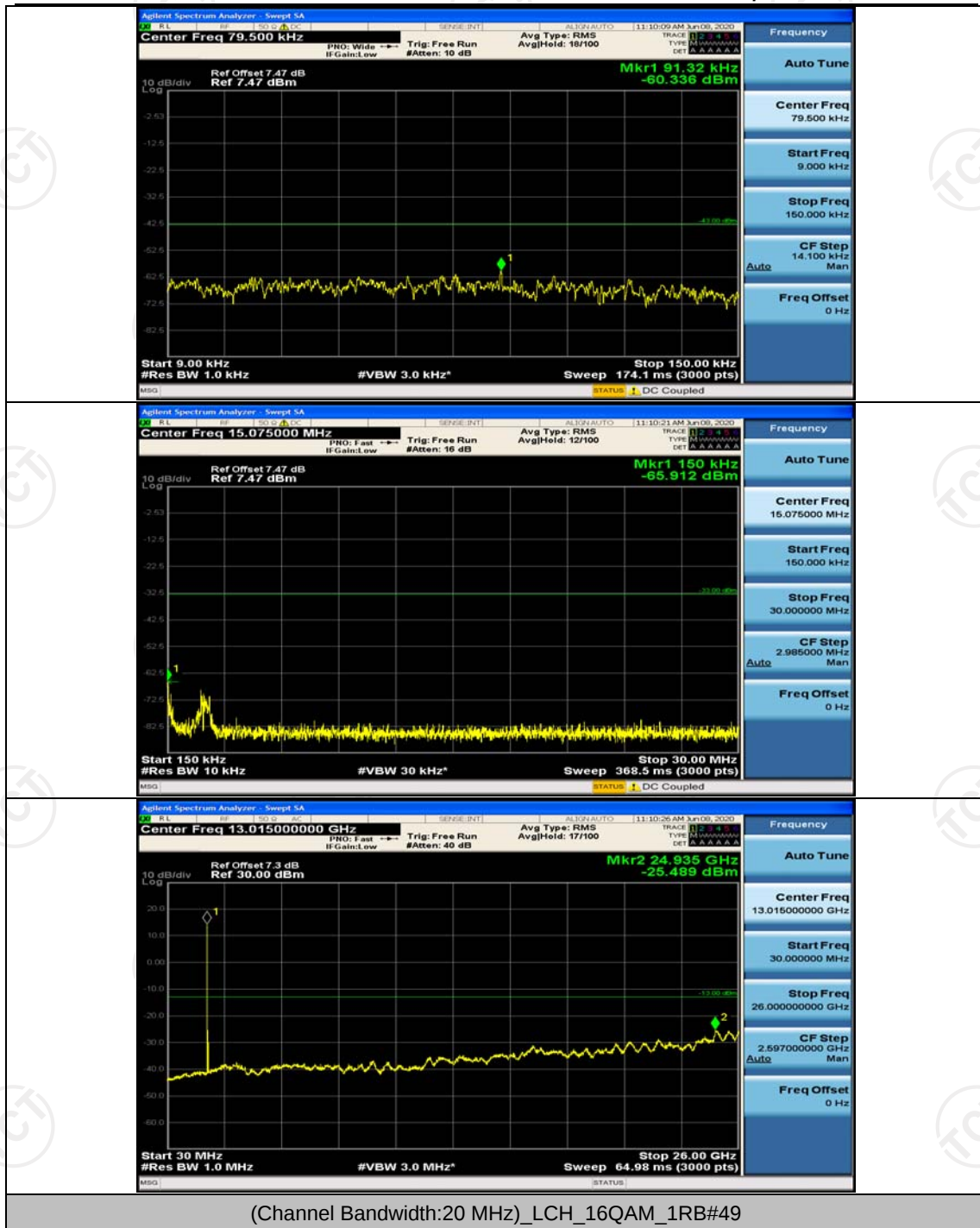


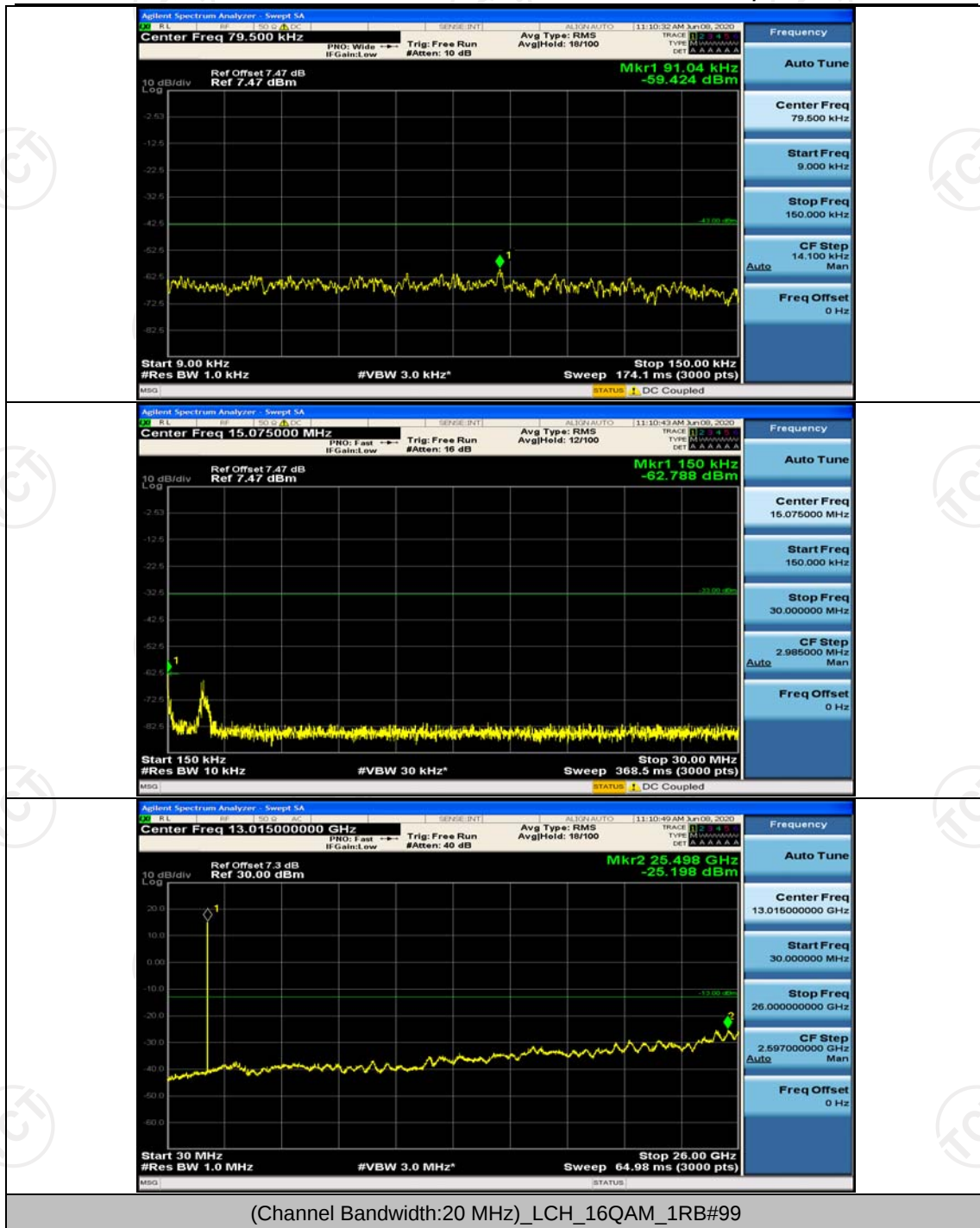


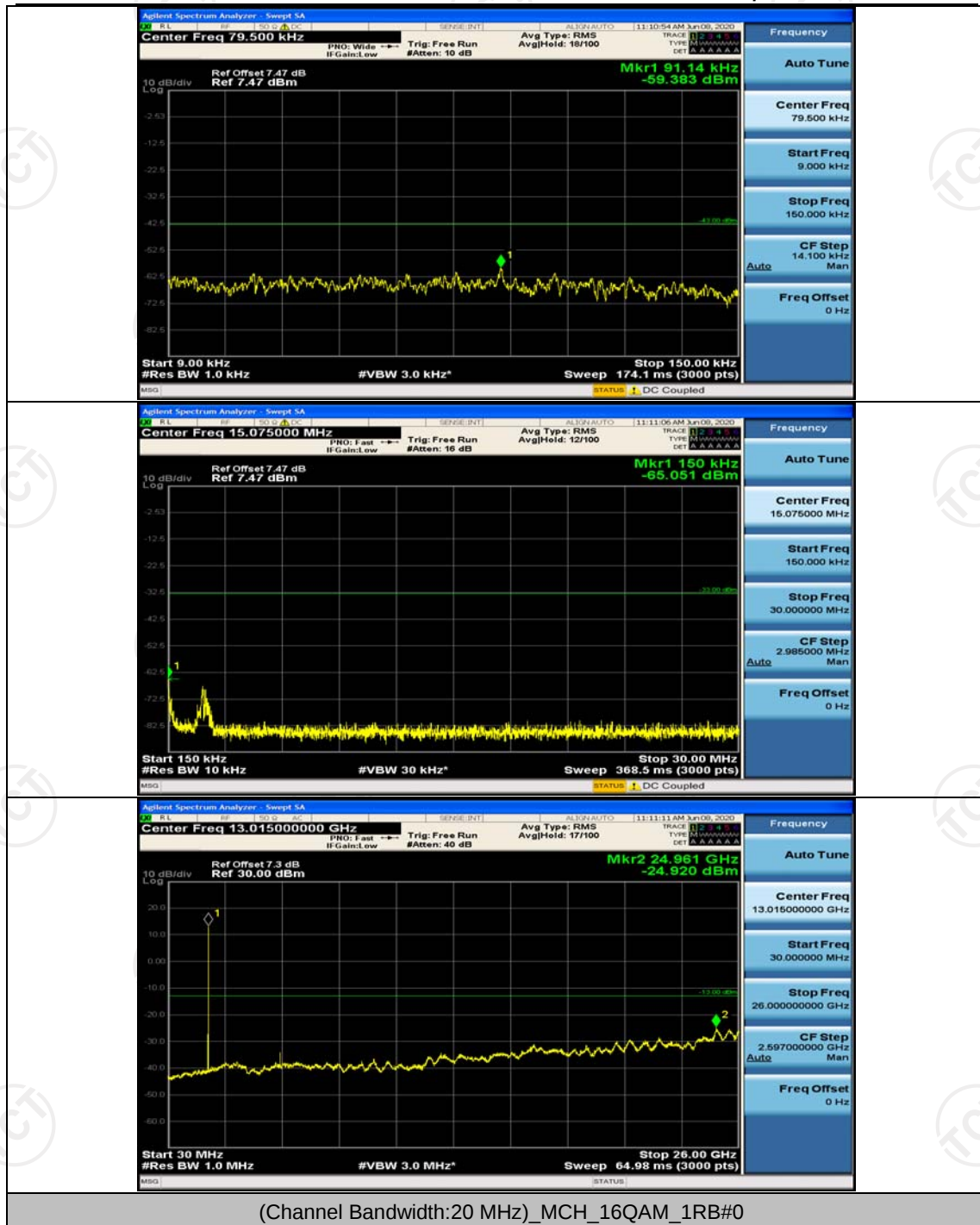


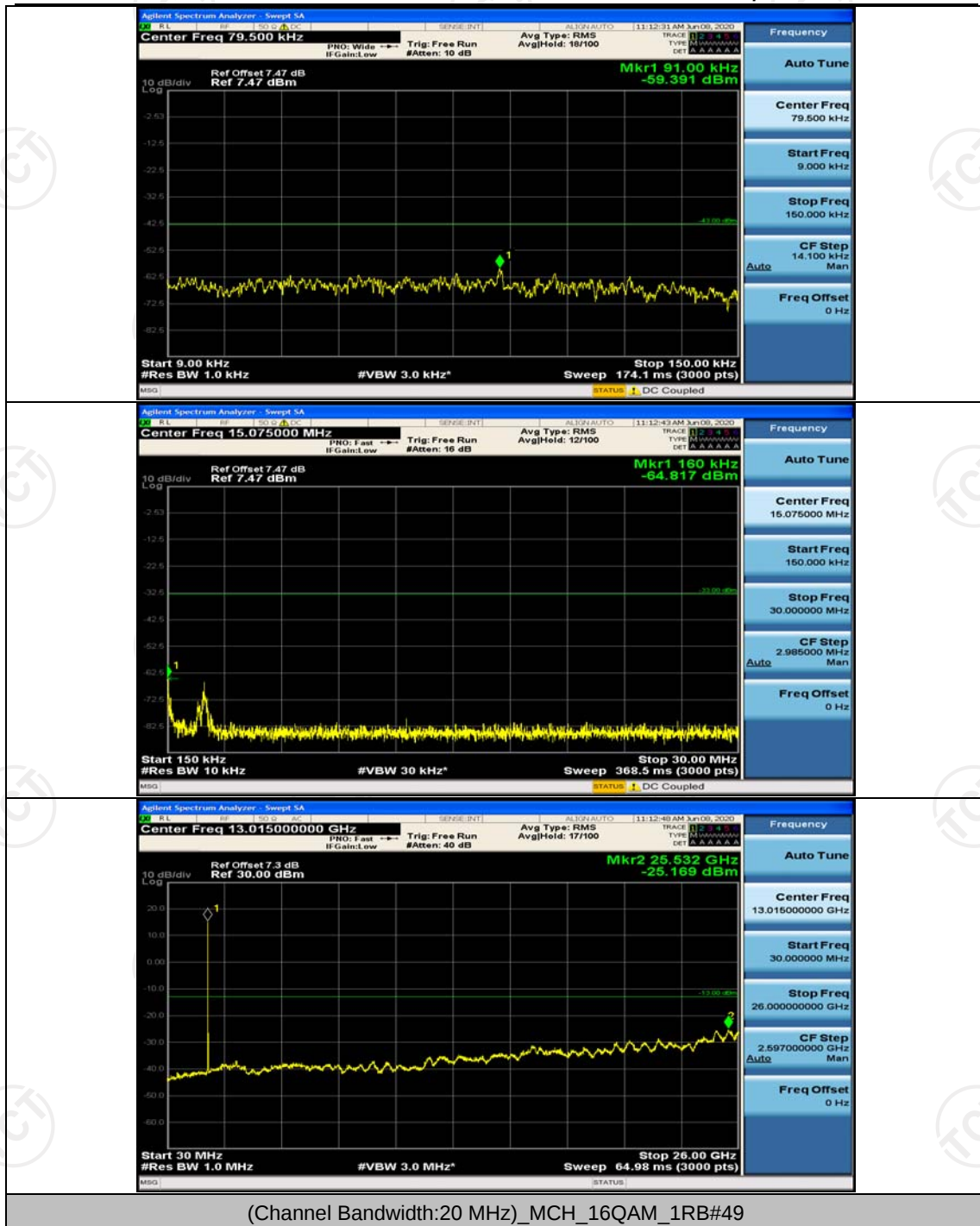


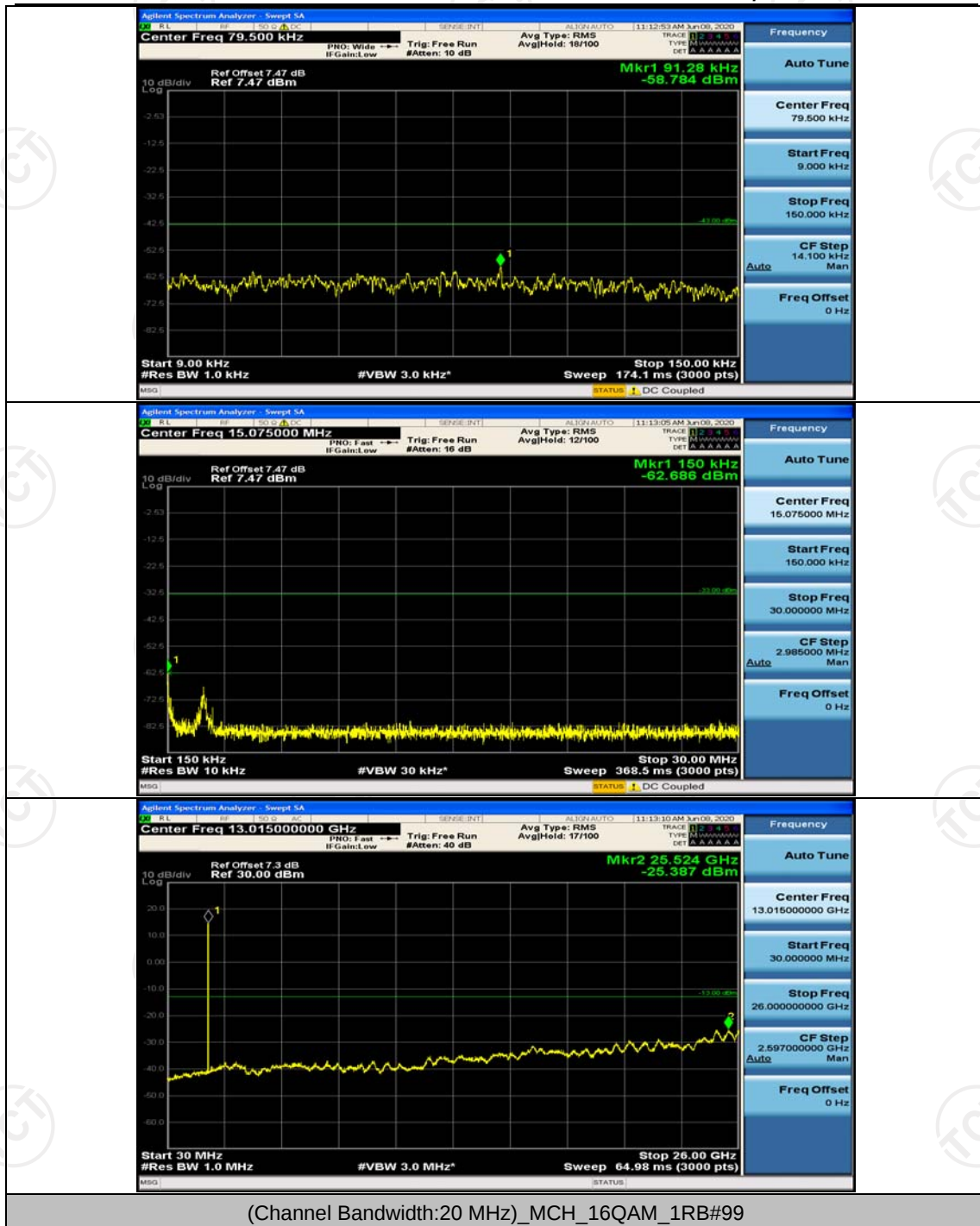


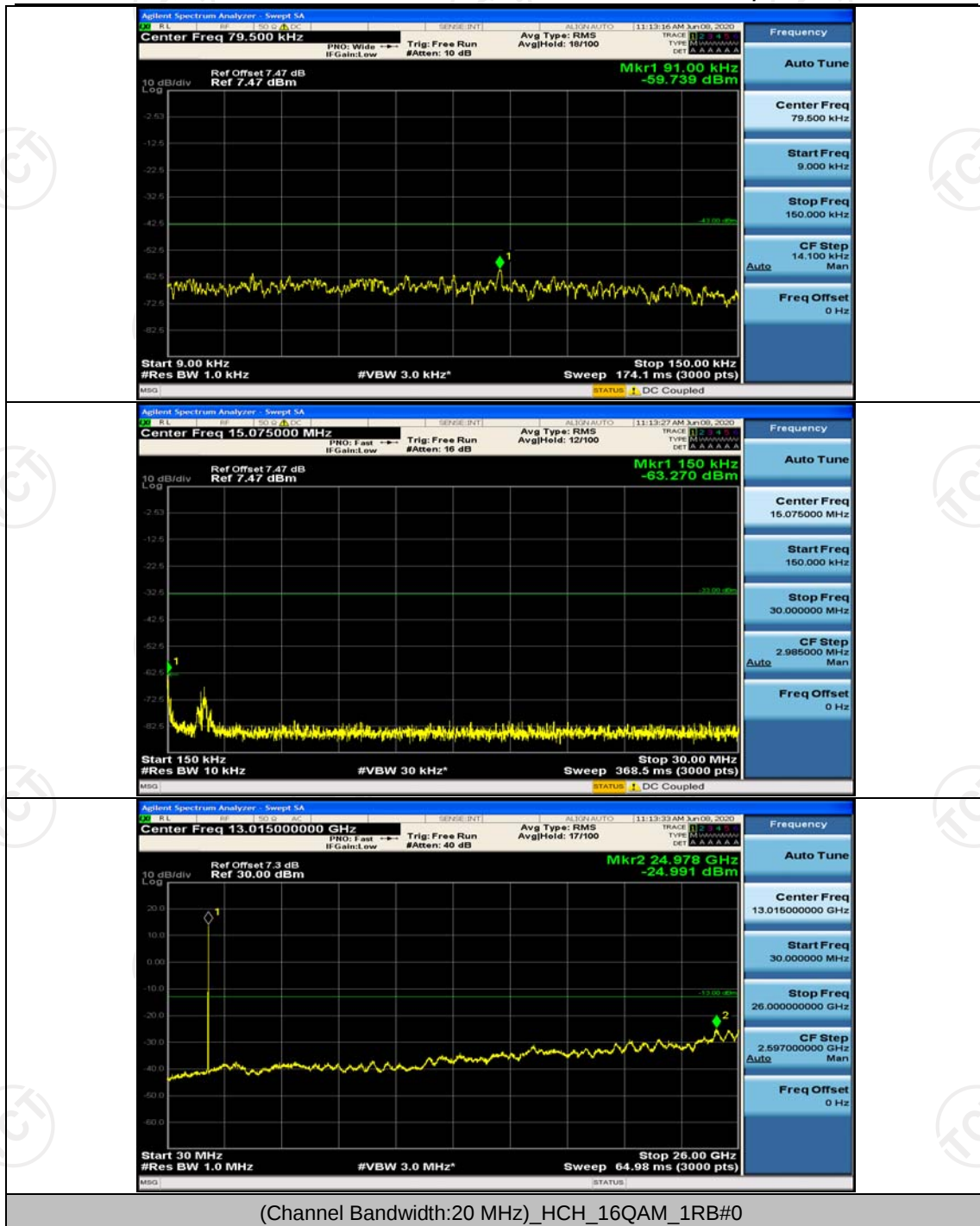


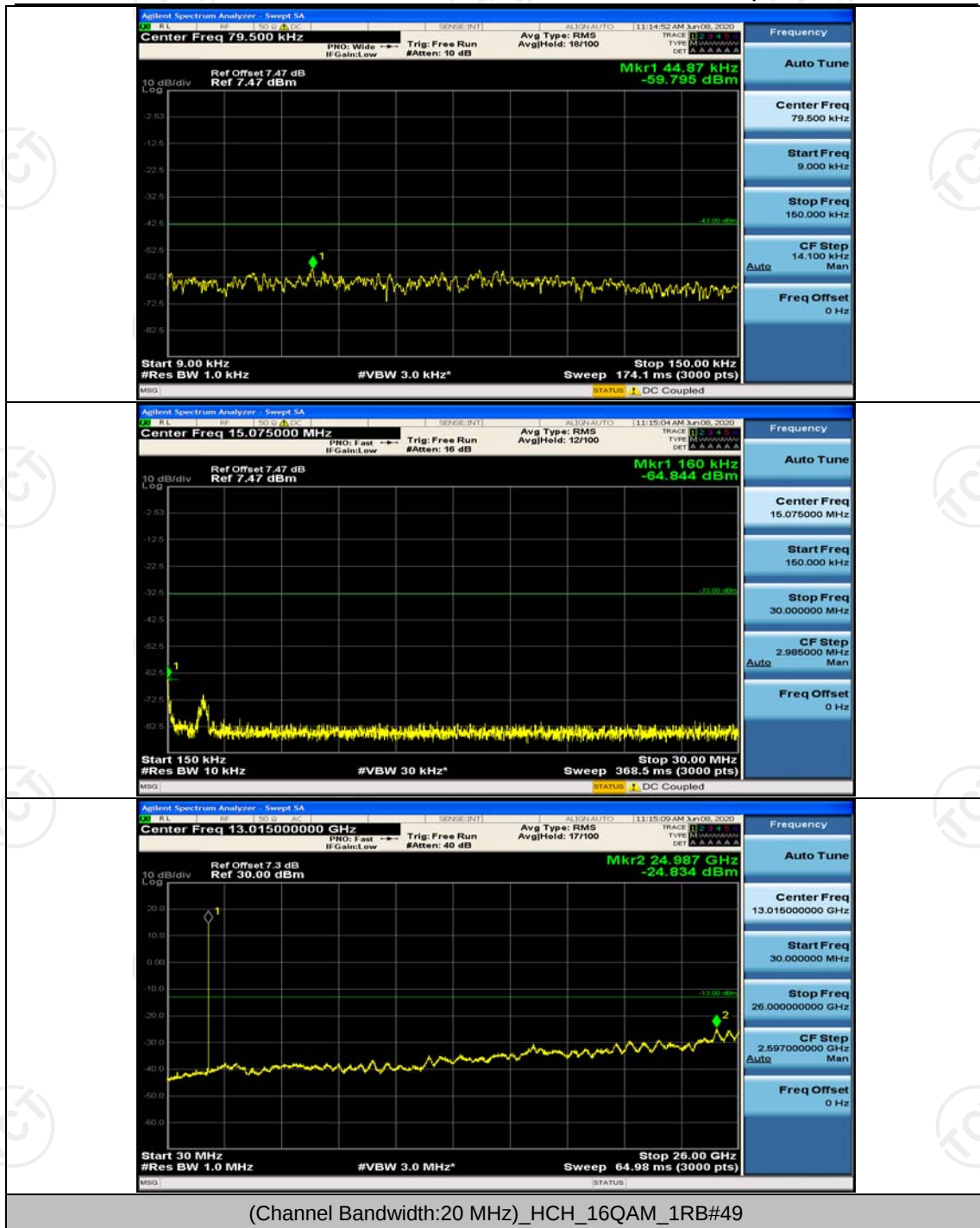


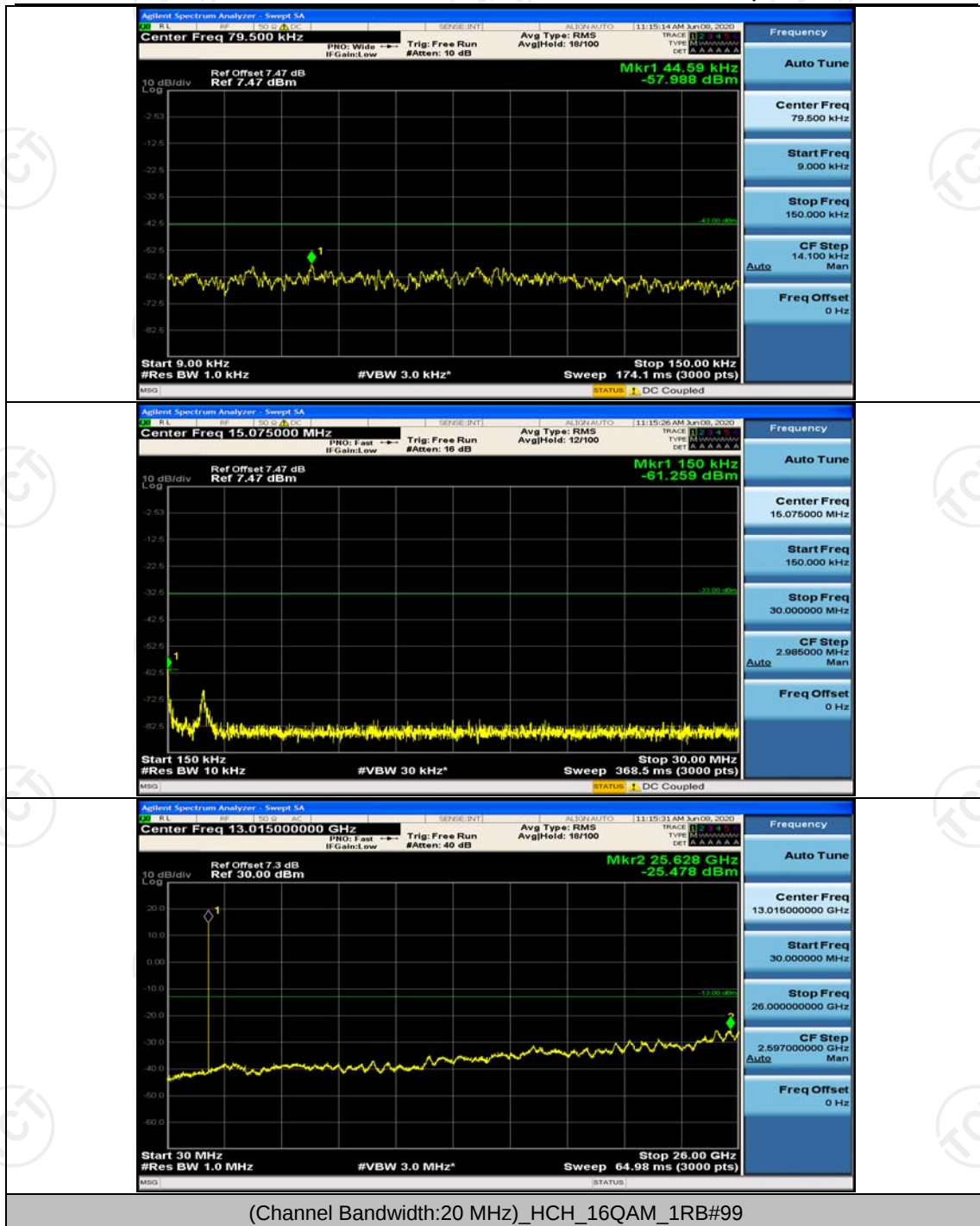


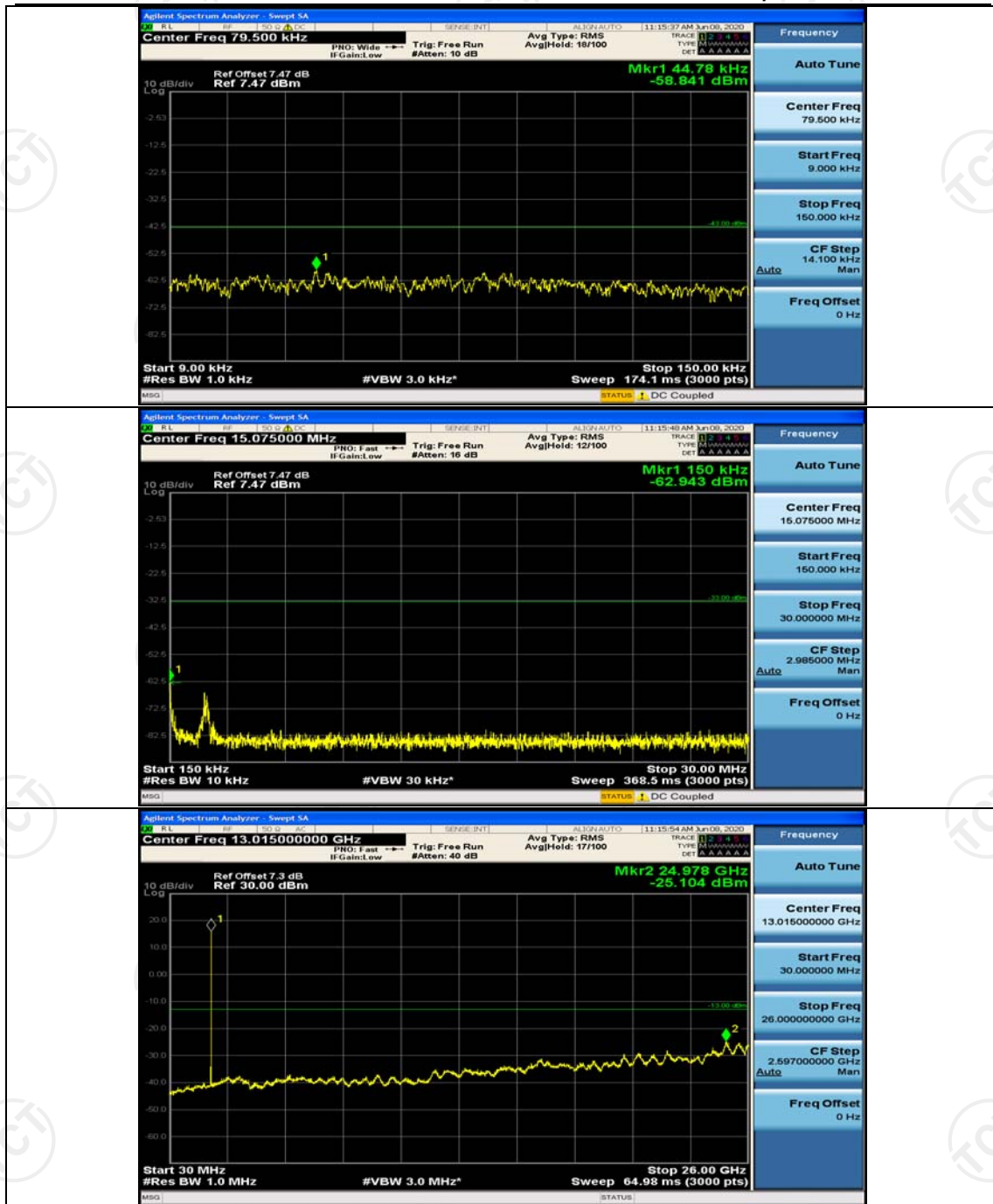












Appendix F: Frequency Stability

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	-3.62	-0.001954	± 2.5	PASS
		3.7	25	-3.53	-0.001907	± 2.5	PASS
		4.2	25	-2.60	-0.001405	± 2.5	PASS
	MCH	3.4	25	-2.57	-0.001390	± 2.5	PASS
		3.7	25	-3.58	-0.001902	± 2.5	PASS
		4.2	25	-0.14	-0.000075	± 2.5	PASS
	HCH	3.4	25	0.36	0.000187	± 2.5	PASS
		3.7	25	0.60	0.000315	± 2.5	PASS
		4.2	25	0.59	0.000307	± 2.5	PASS
16QAM	LCH	3.4	25	-4.85	-0.002579	± 2.5	PASS
		3.7	25	-5.89	-0.003135	± 2.5	PASS
		4.2	25	-5.58	-0.002968	± 2.5	PASS
	MCH	3.4	25	-5.08	-0.002701	± 2.5	PASS
		3.7	25	-4.91	-0.002610	± 2.5	PASS
		4.2	25	-4.88	-0.002595	± 2.5	PASS
	HCH	3.4	25	-4.13	-0.002199	± 2.5	PASS
		3.7	25	-0.53	-0.000277	± 2.5	PASS
		4.2	25	-4.13	-0.002199	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	3.7	-30	0.83	0.000435	± 2.5	PASS
		3.7	-20	0.72	0.000375	± 2.5	PASS
		3.7	-10	0.93	0.000487	± 2.5	PASS
		3.7	0	0.24	0.000127	± 2.5	PASS
		3.7	10	1.52	0.000795	± 2.5	PASS
		3.7	20	-2.39	-0.001291	± 2.5	PASS
		3.7	30	-2.62	-0.001415	± 2.5	PASS
		3.7	40	-2.16	-0.001167	± 2.5	PASS
	3.7	50	-1.26	-0.000680	± 2.5	PASS	
	MCH	3.7	-30	-0.49	-0.000255	± 2.5	PASS
		3.7	-20	-3.02	-0.001630	± 2.5	PASS
		3.7	-10	-1.63	-0.000881	± 2.5	PASS
		3.7	0	-3.16	-0.001707	± 2.5	PASS
		3.7	10	-3.91	-0.002109	± 2.5	PASS
		3.7	20	-4.23	-0.002252	± 2.5	PASS
3.7		30	-3.26	-0.001735	± 2.5	PASS	

	HCH	3.7	40	-3.59	-0.001910	± 2.5	PASS
		3.7	50	-2.07	-0.001103	± 2.5	PASS
		3.7	-30	1.36	0.000712	± 2.5	PASS
		3.7	-20	-2.78	-0.001499	± 2.5	PASS
		3.7	-10	-2.02	-0.001089	± 2.5	PASS
		3.7	0	-2.42	-0.001306	± 2.5	PASS
		3.7	10	-2.72	-0.001468	± 2.5	PASS
		3.7	20	-0.51	-0.000270	± 2.5	PASS
		3.7	30	-0.66	-0.000345	± 2.5	PASS
		3.7	40	-0.11	-0.000060	± 2.5	PASS
		3.7	50	0.96	0.000502	± 2.5	PASS
16QAM	LCH	3.7	-30	0.44	0.000232	± 2.5	PASS
		3.7	-20	-2.93	-0.001560	± 2.5	PASS
		3.7	-10	-3.73	-0.001986	± 2.5	PASS
		3.7	0	-3.38	-0.001796	± 2.5	PASS
		3.7	10	-4.33	-0.002306	± 2.5	PASS
		3.7	20	-2.98	-0.001608	± 2.5	PASS
		3.7	30	-1.57	-0.000850	± 2.5	PASS
		3.7	40	-3.33	-0.001801	± 2.5	PASS
		3.7	50	-2.43	-0.001314	± 2.5	PASS
	MCH	3.7	-30	-0.72	-0.000375	± 2.5	PASS
		3.7	-20	-0.01	-0.000007	± 2.5	PASS
		3.7	-10	-0.39	-0.000202	± 2.5	PASS
		3.7	0	0.51	0.000270	± 2.5	PASS
		3.7	10	0.40	0.000210	± 2.5	PASS
		3.7	20	-3.85	-0.002047	± 2.5	PASS
		3.7	30	-3.62	-0.001925	± 2.5	PASS
		3.7	40	-2.89	-0.001537	± 2.5	PASS
		3.7	50	-3.45	-0.001834	± 2.5	PASS
	HCH	3.7	-30	-4.69	-0.002496	± 2.5	PASS
		3.7	-20	-2.00	-0.001065	± 2.5	PASS
		3.7	-10	-3.88	-0.002062	± 2.5	PASS
		3.7	0	-3.40	-0.001811	± 2.5	PASS
		3.7	10	-4.69	-0.002496	± 2.5	PASS
		3.7	20	0.83	0.000435	± 2.5	PASS
		3.7	30	0.76	0.000397	± 2.5	PASS
		3.7	40	-1.83	-0.000959	± 2.5	PASS
		3.7	50	-1.67	-0.000877	± 2.5	PASS