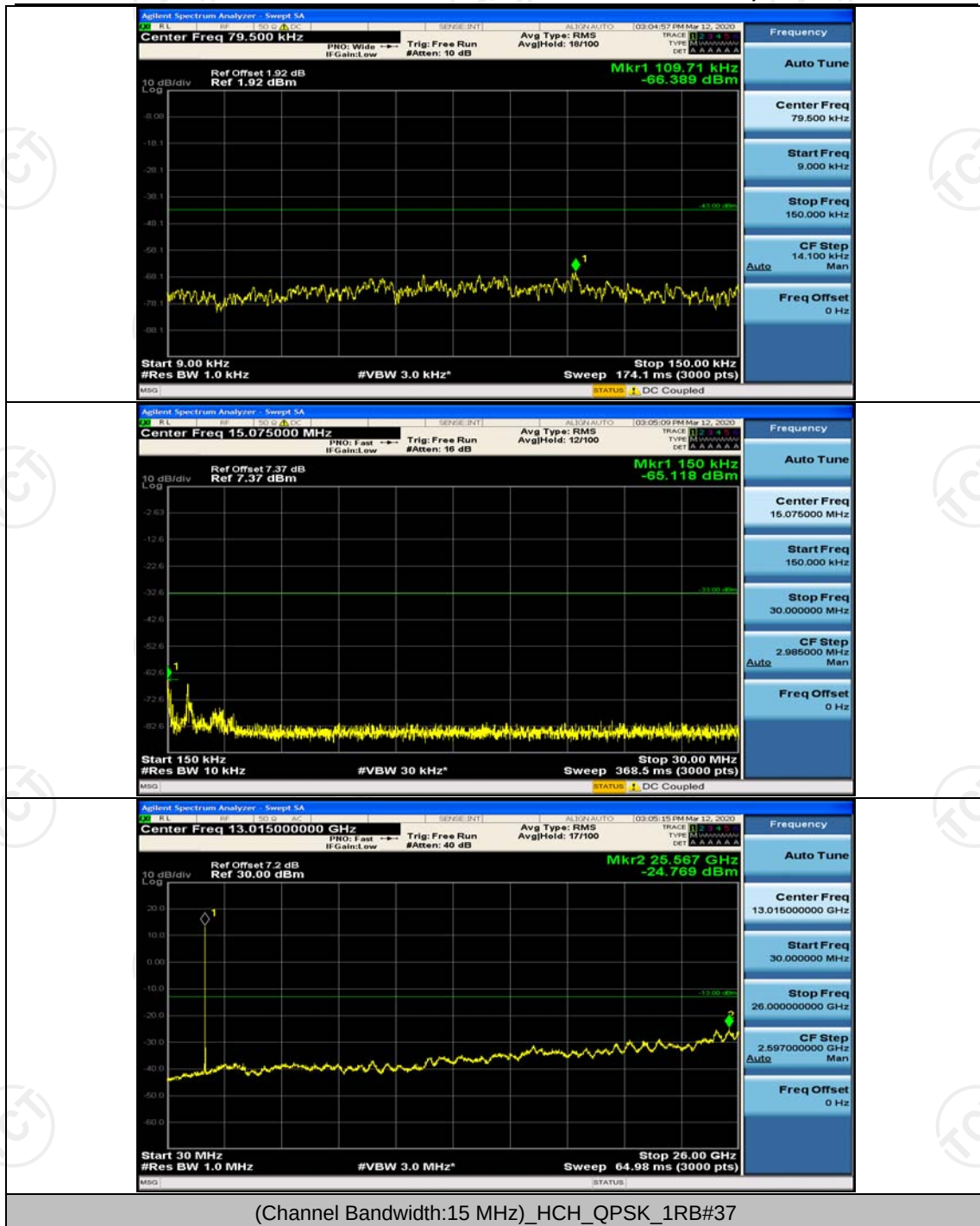
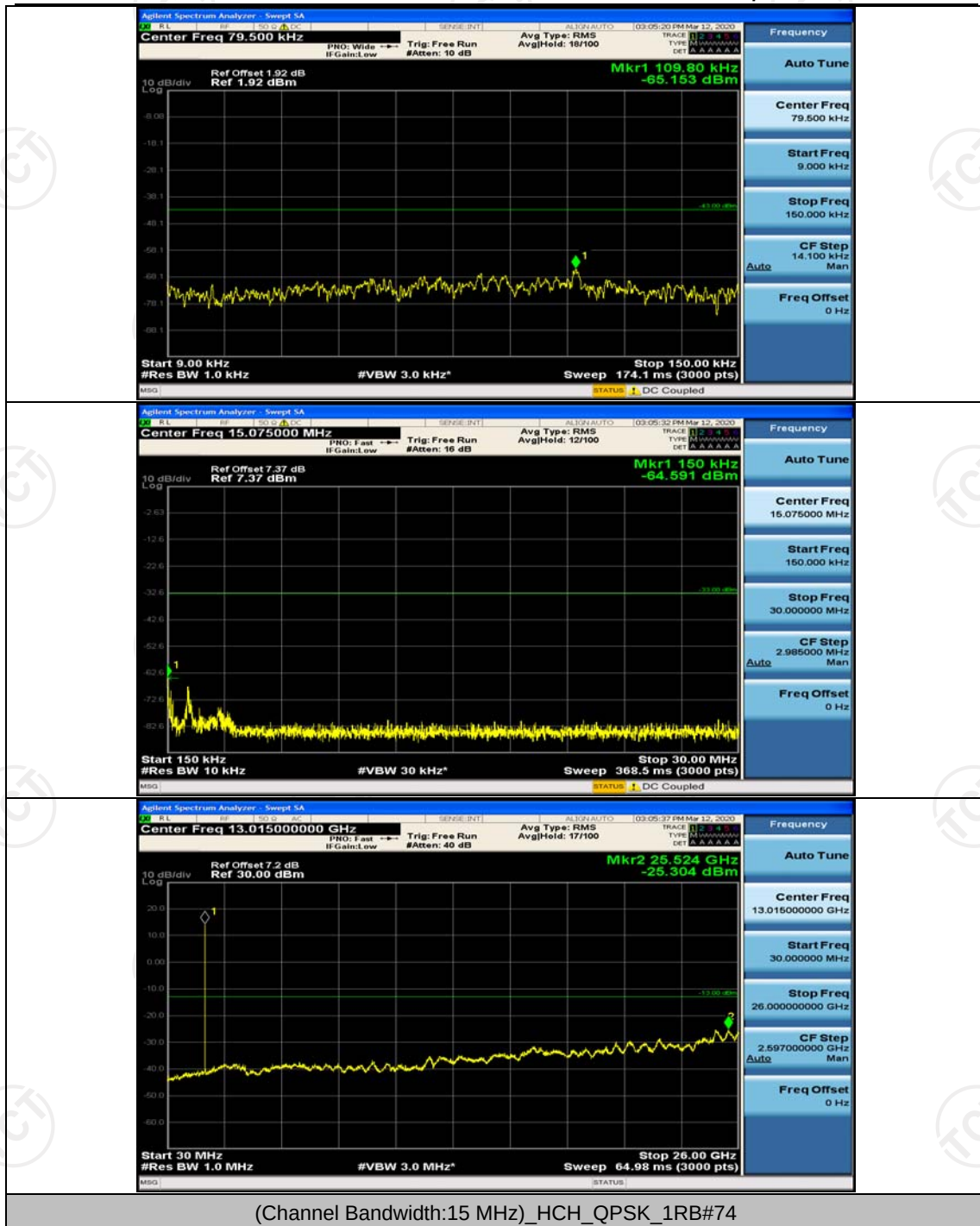
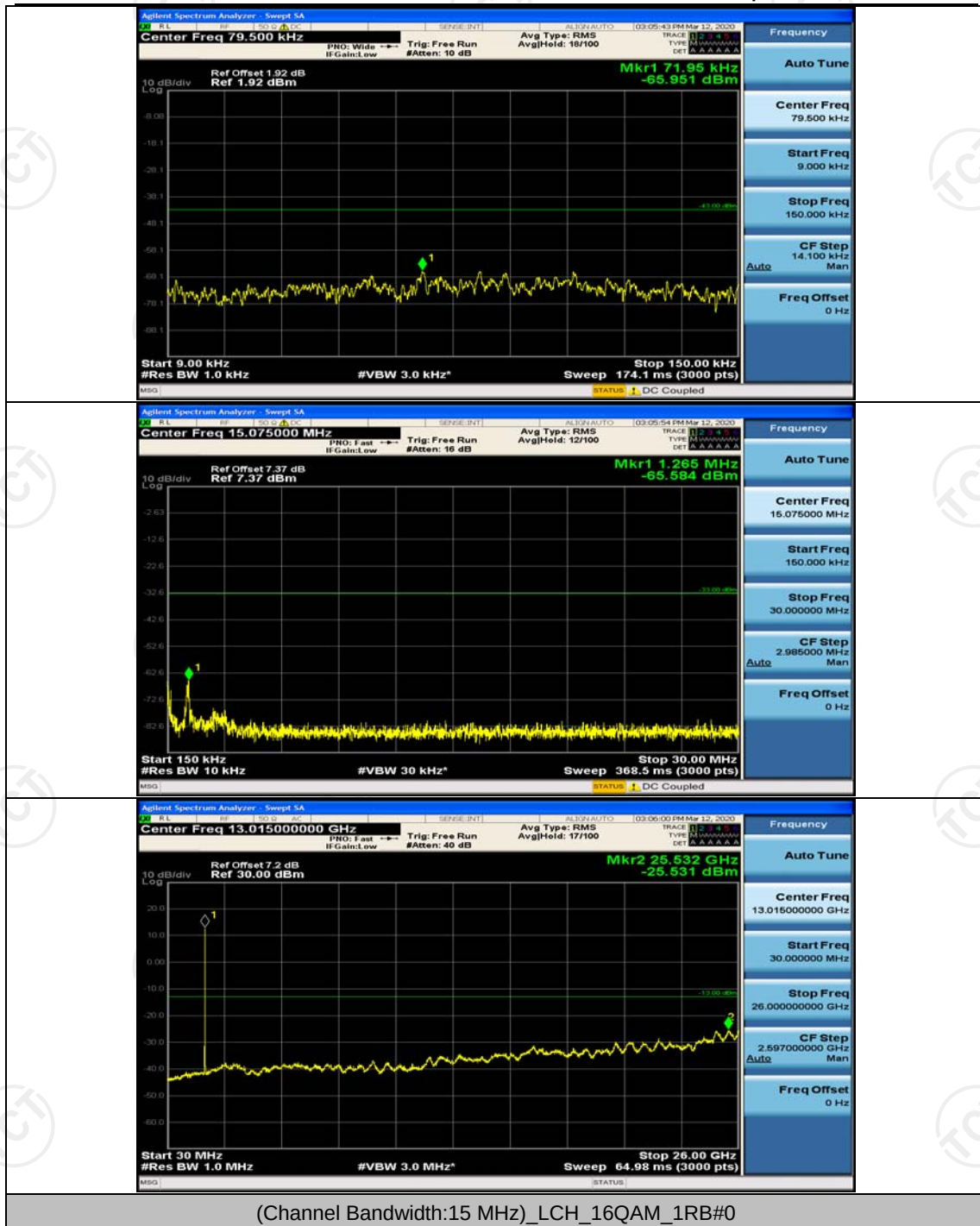
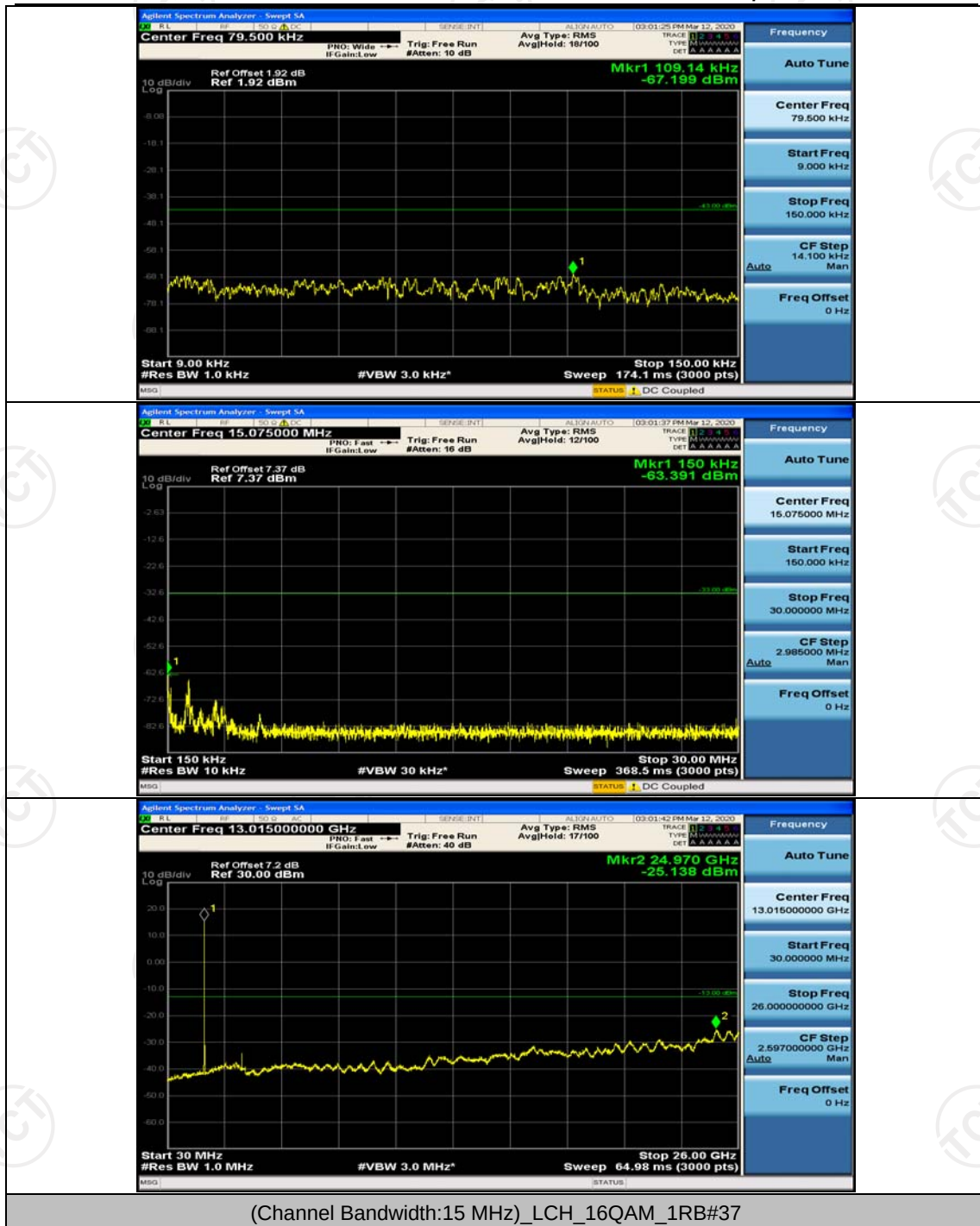
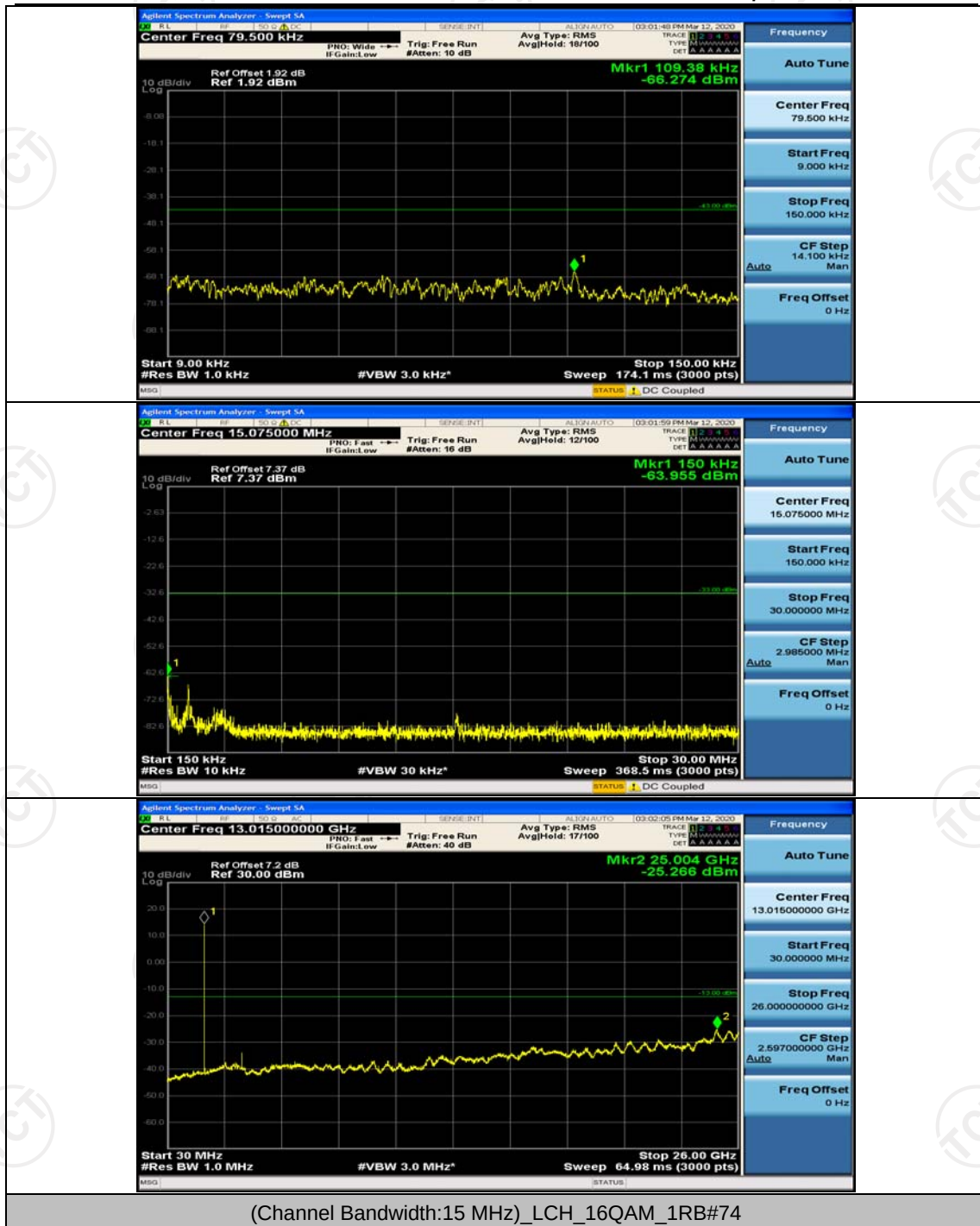


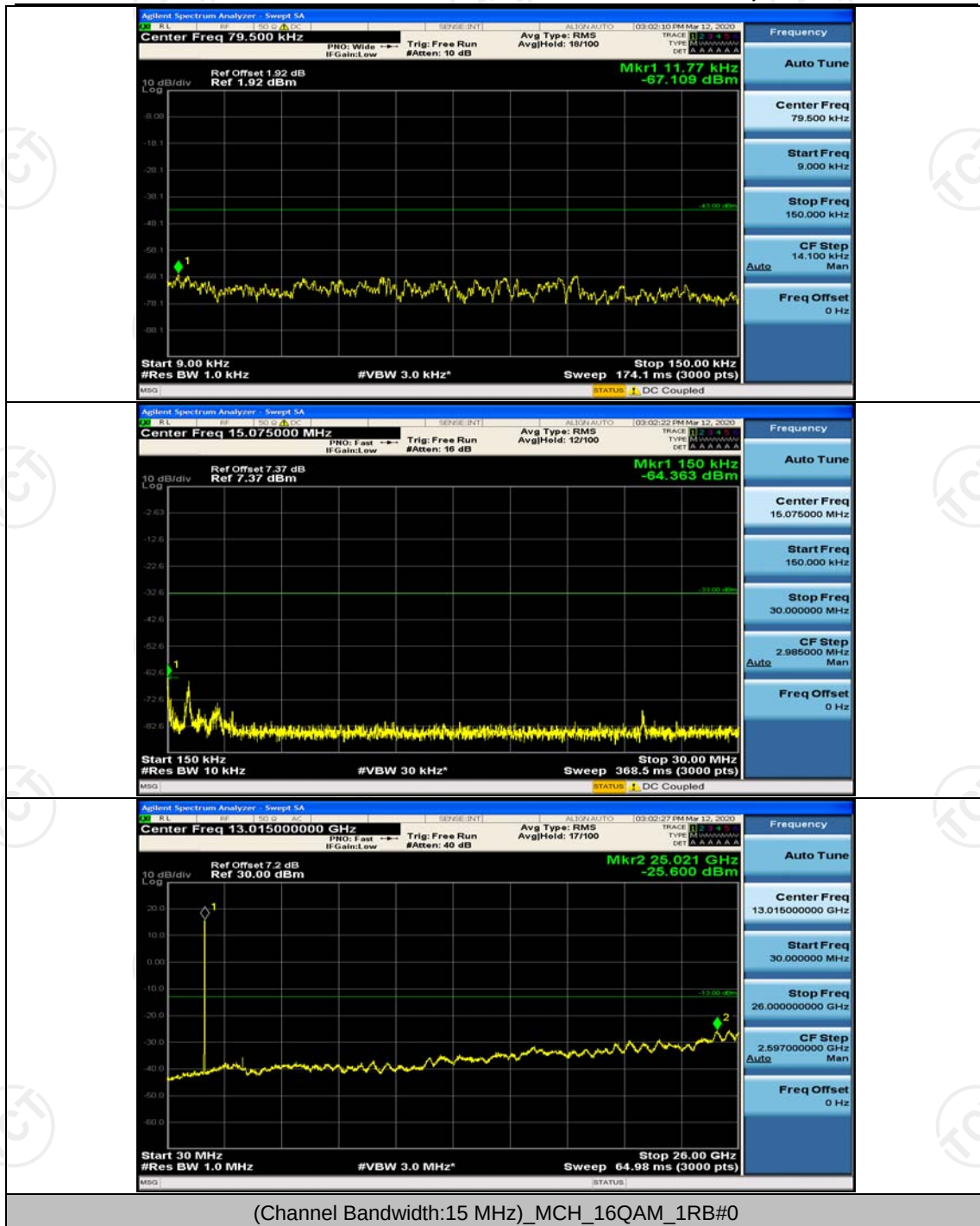


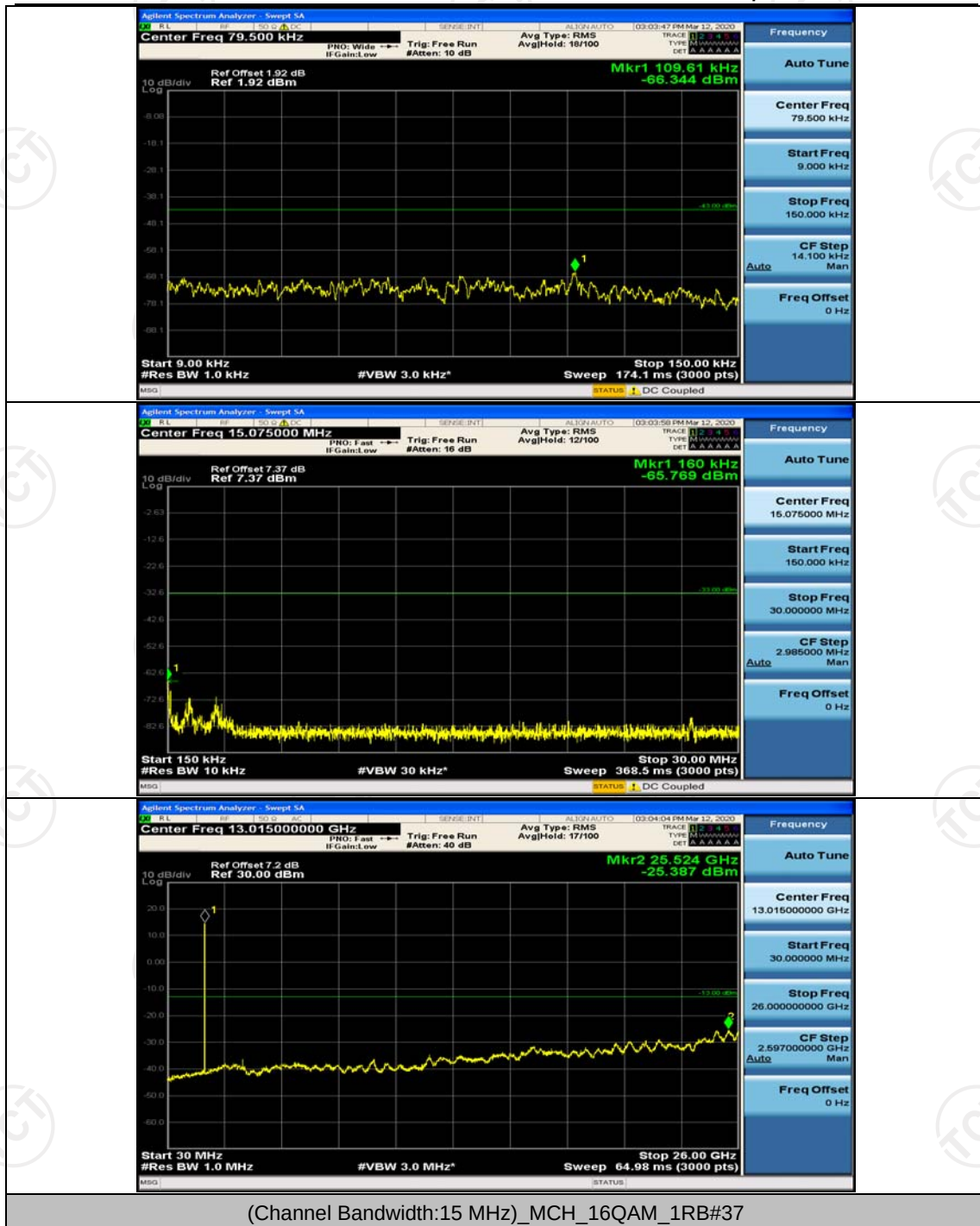


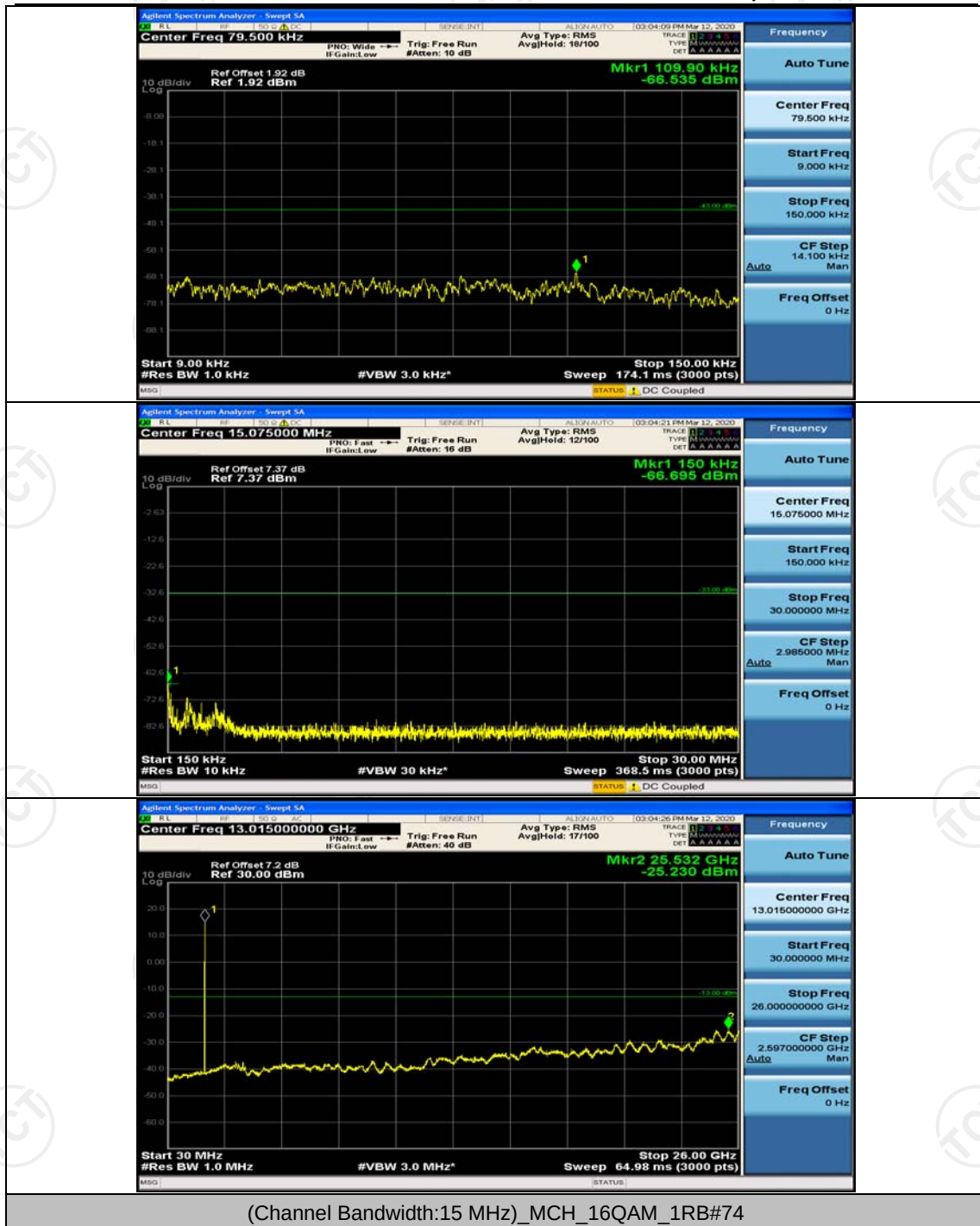


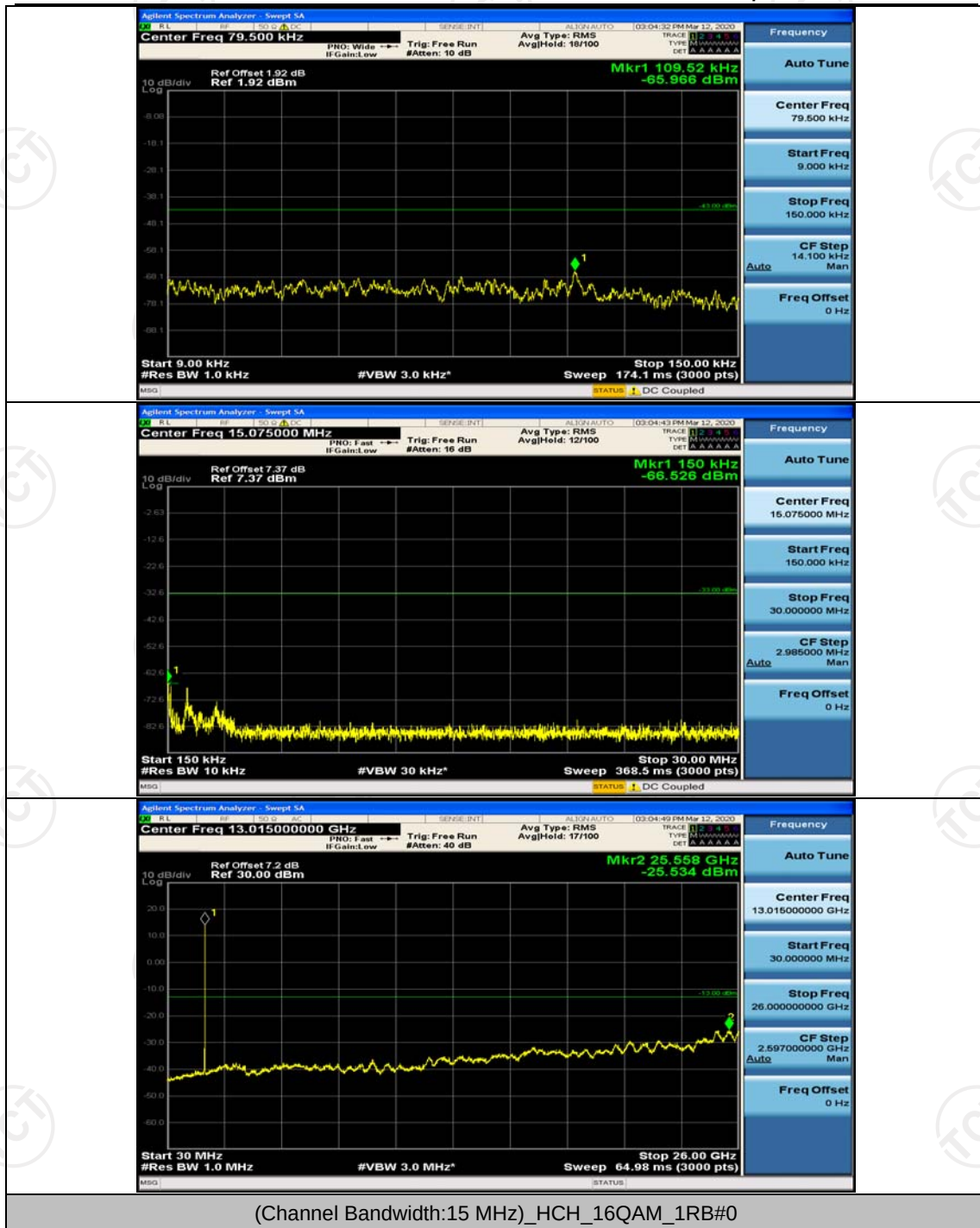


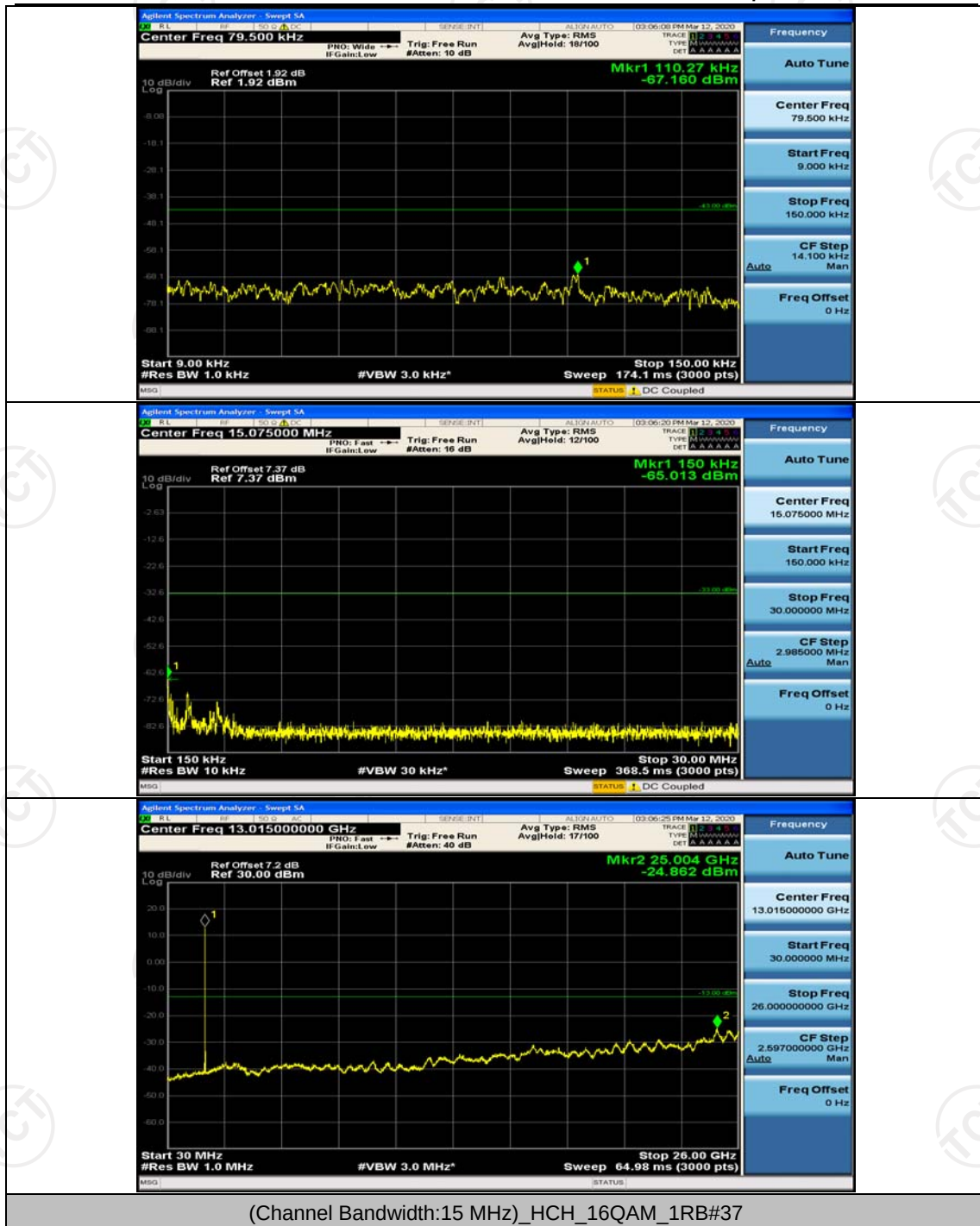


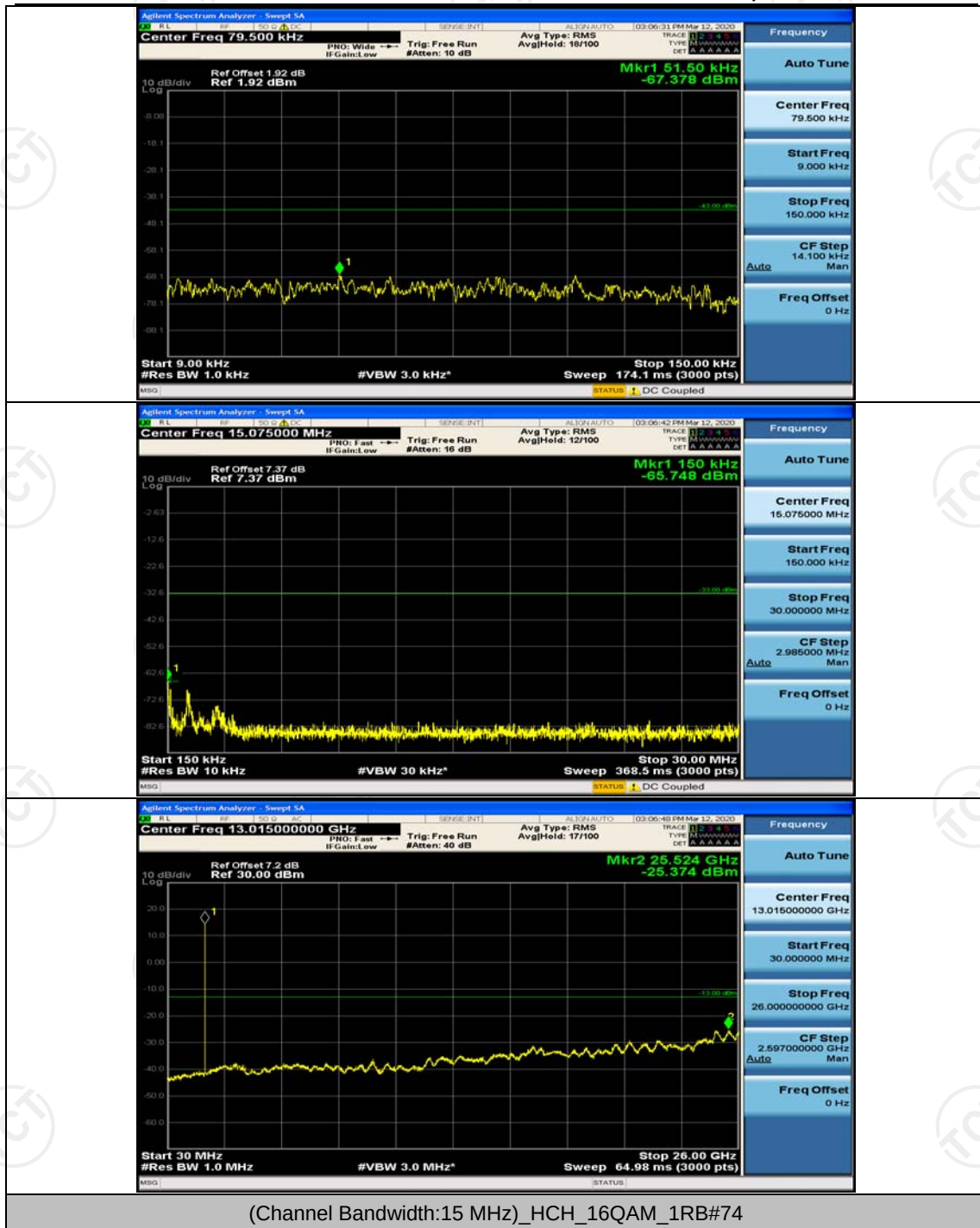


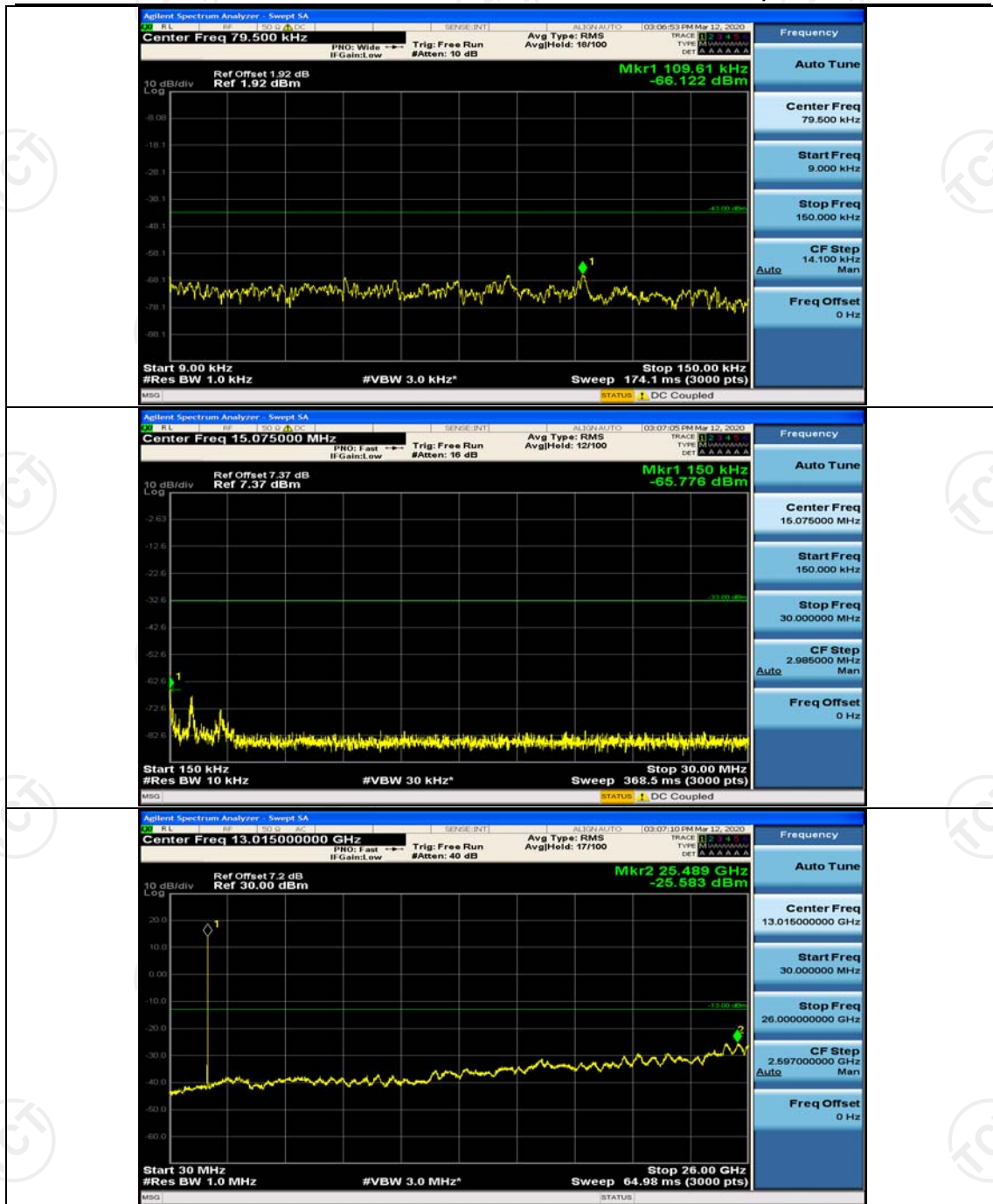




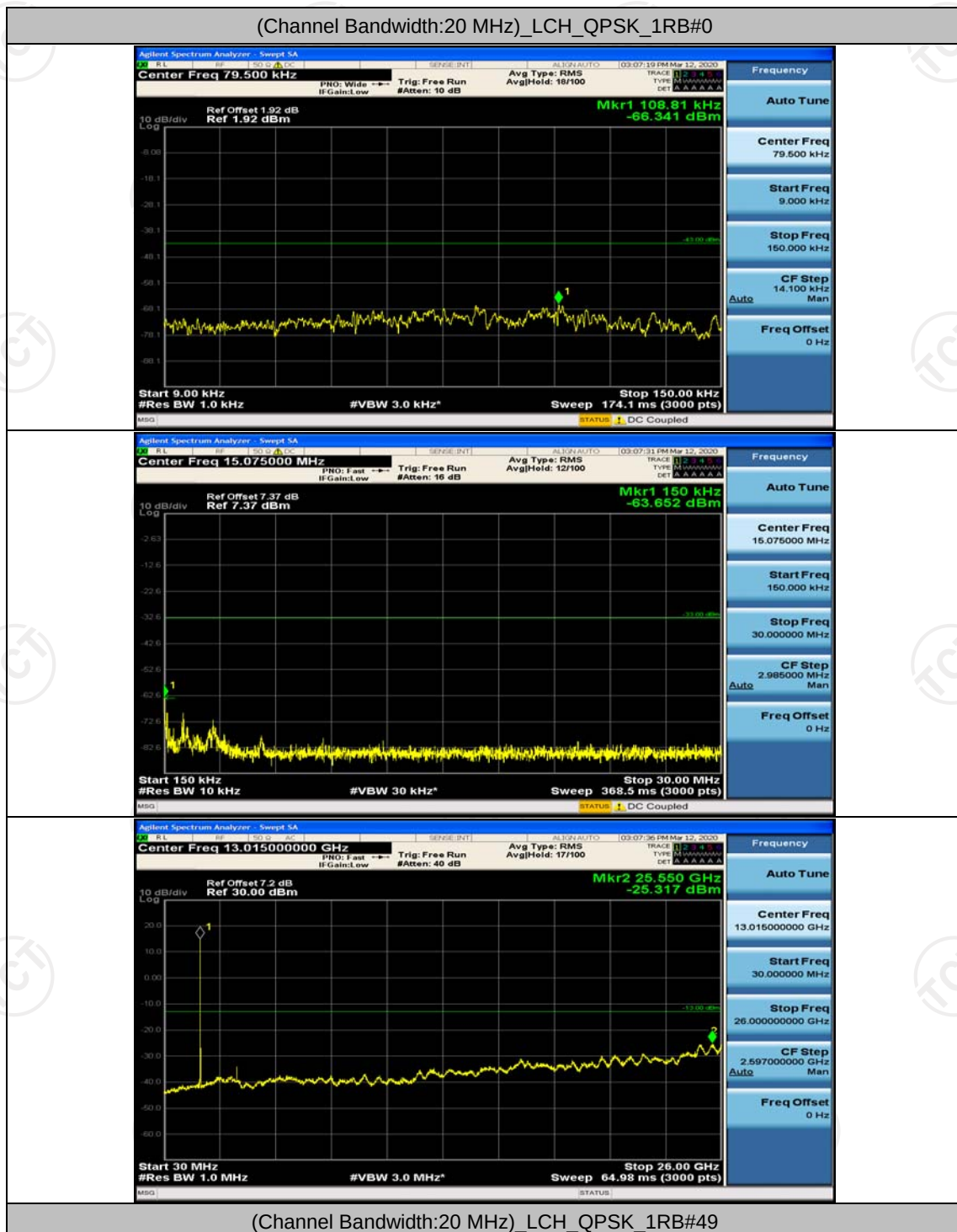


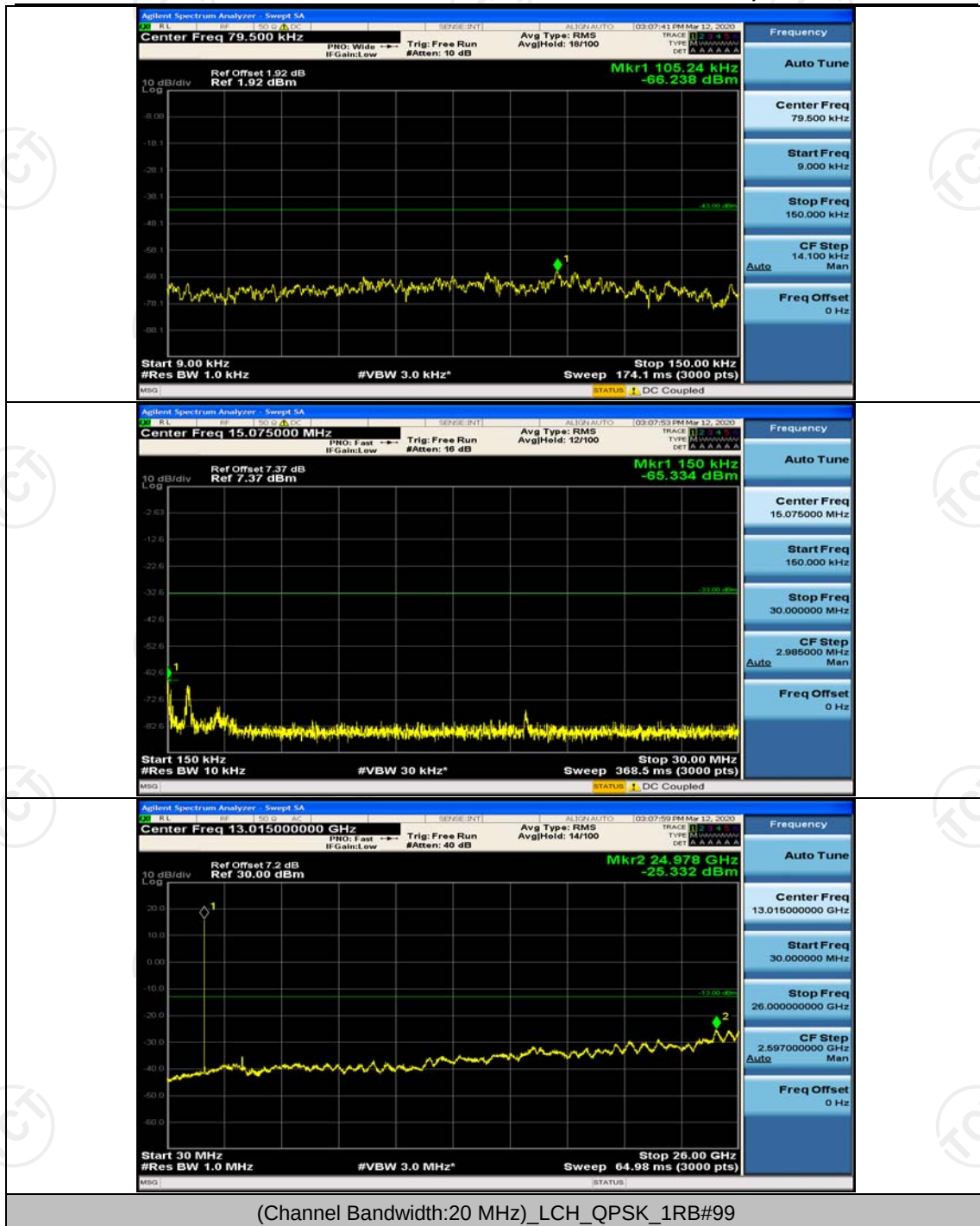


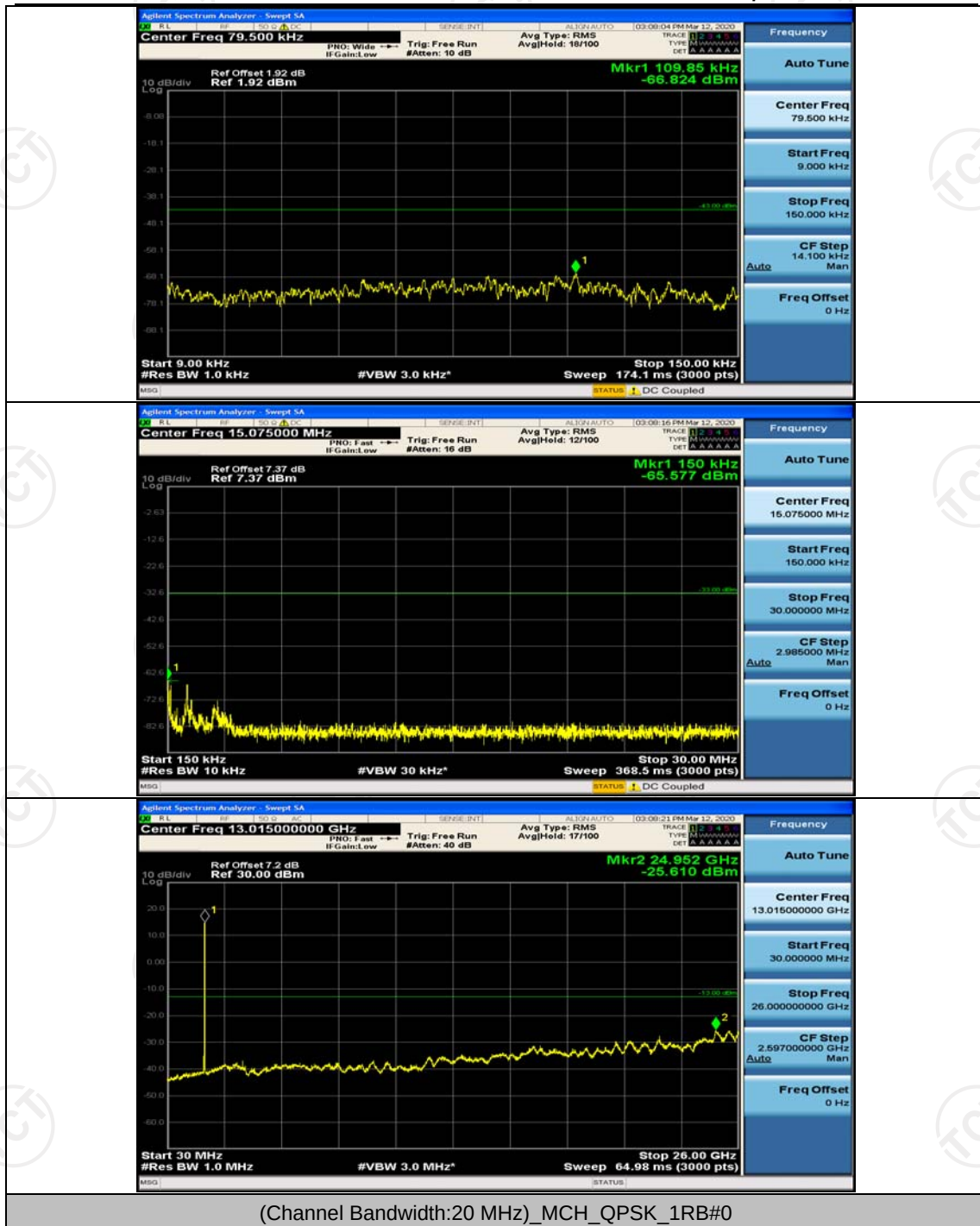


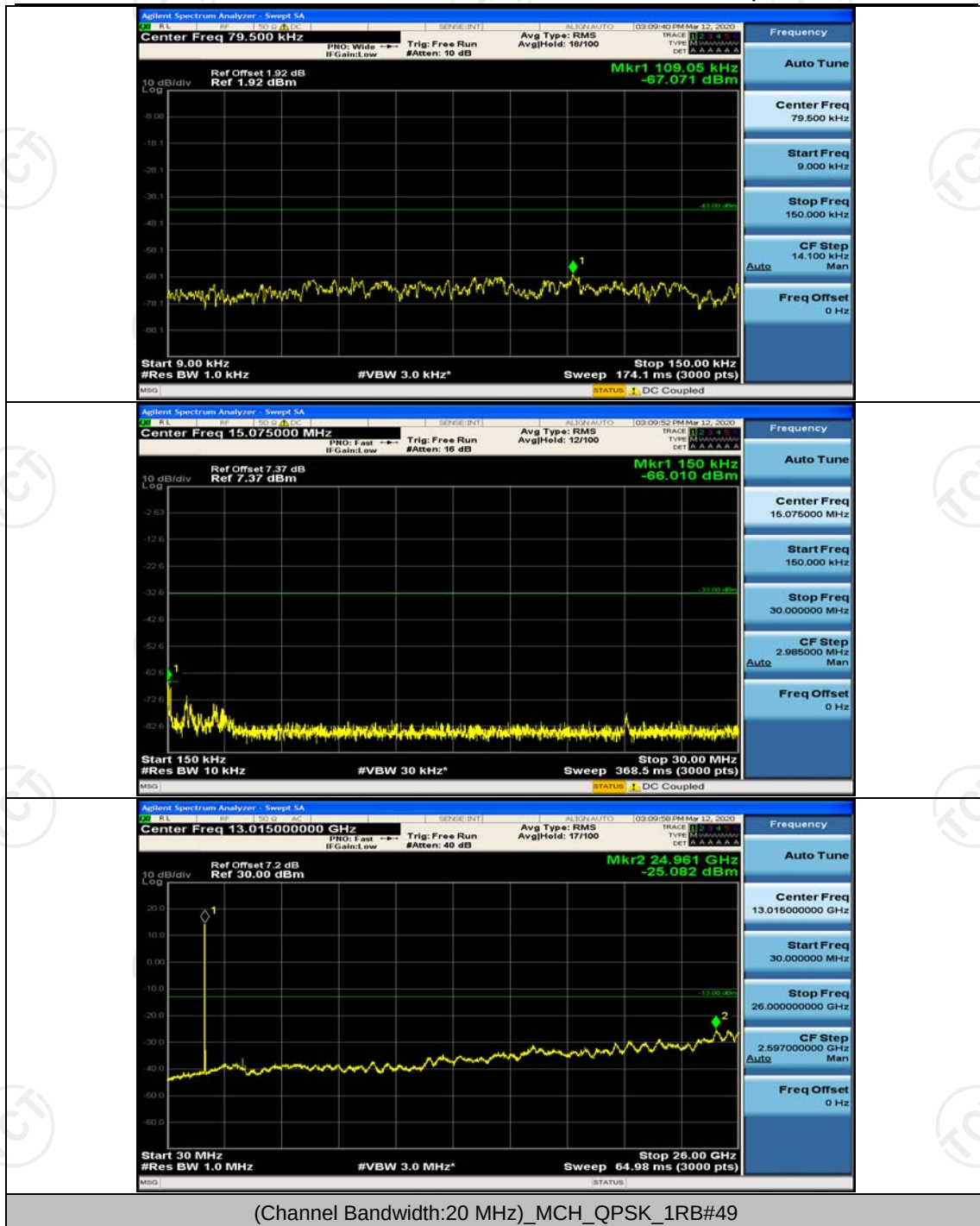


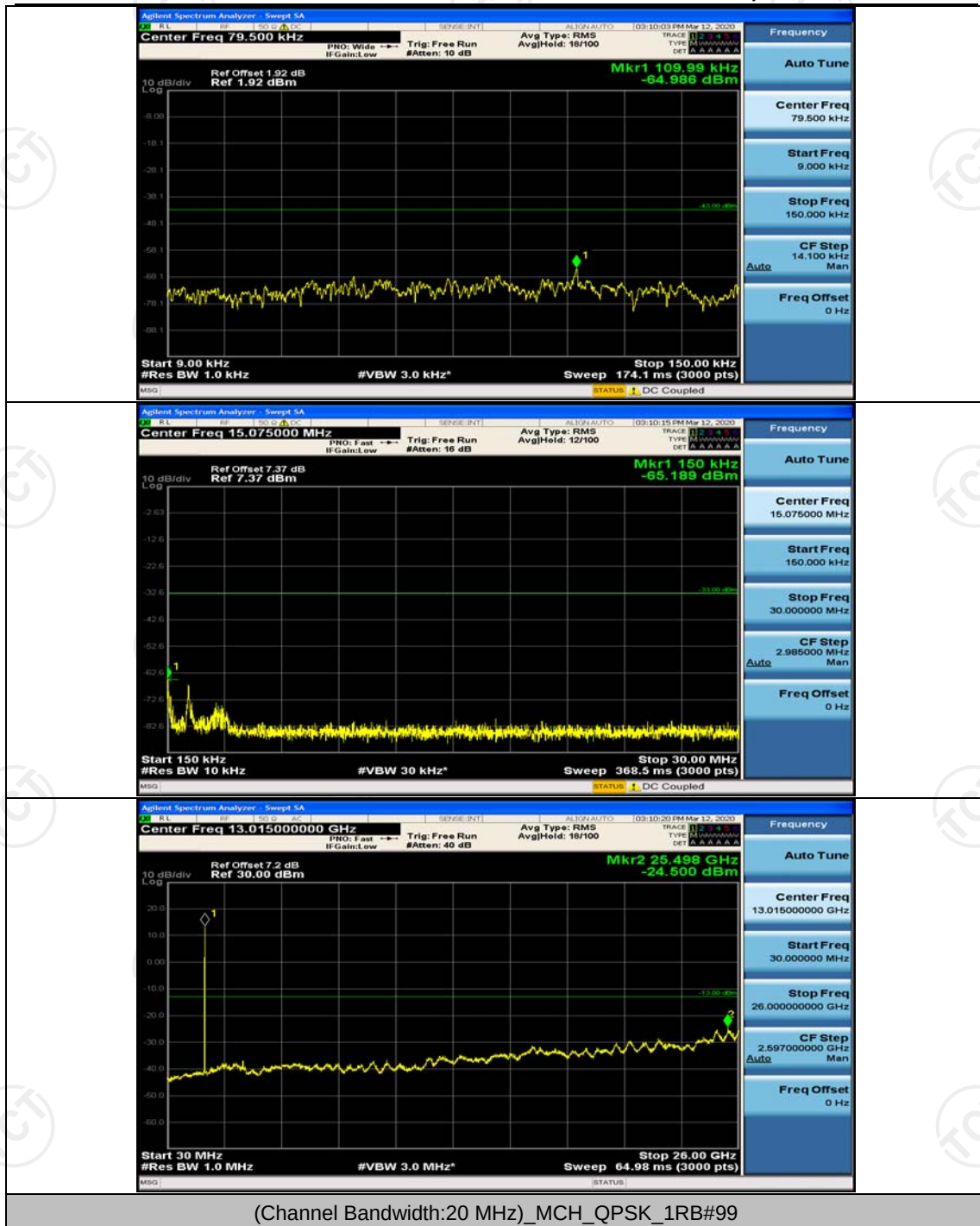
Channel Bandwidth: 20 MHz

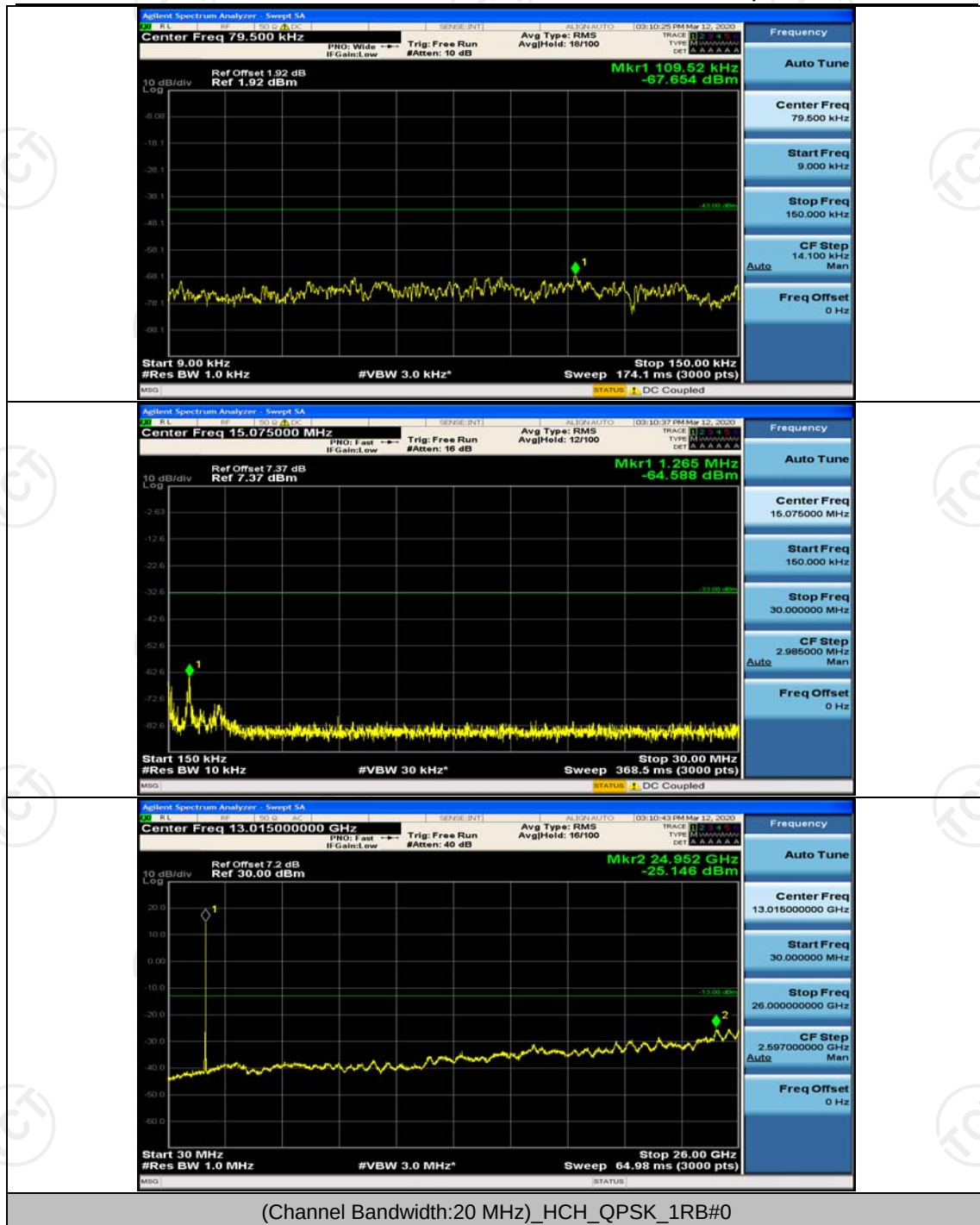


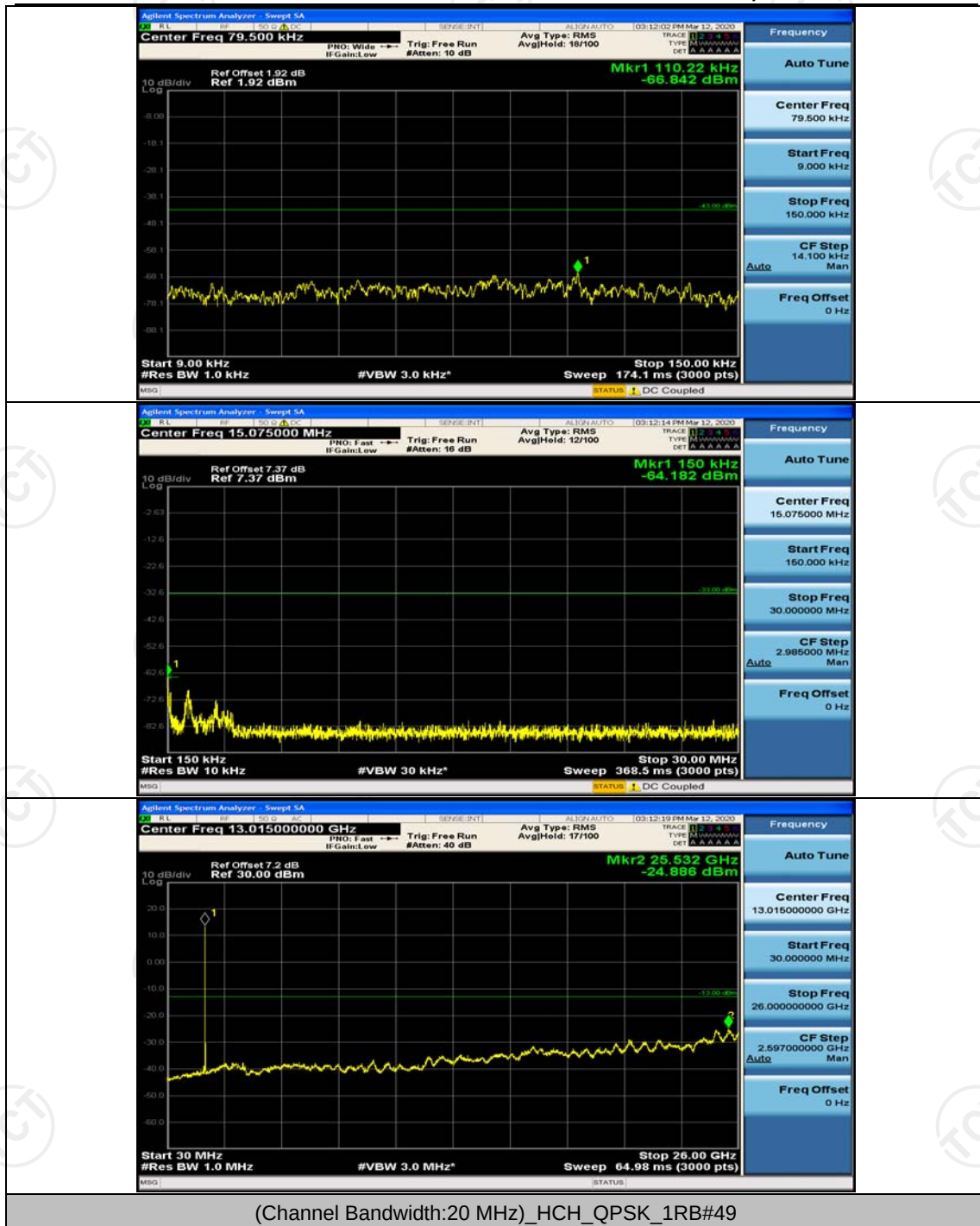


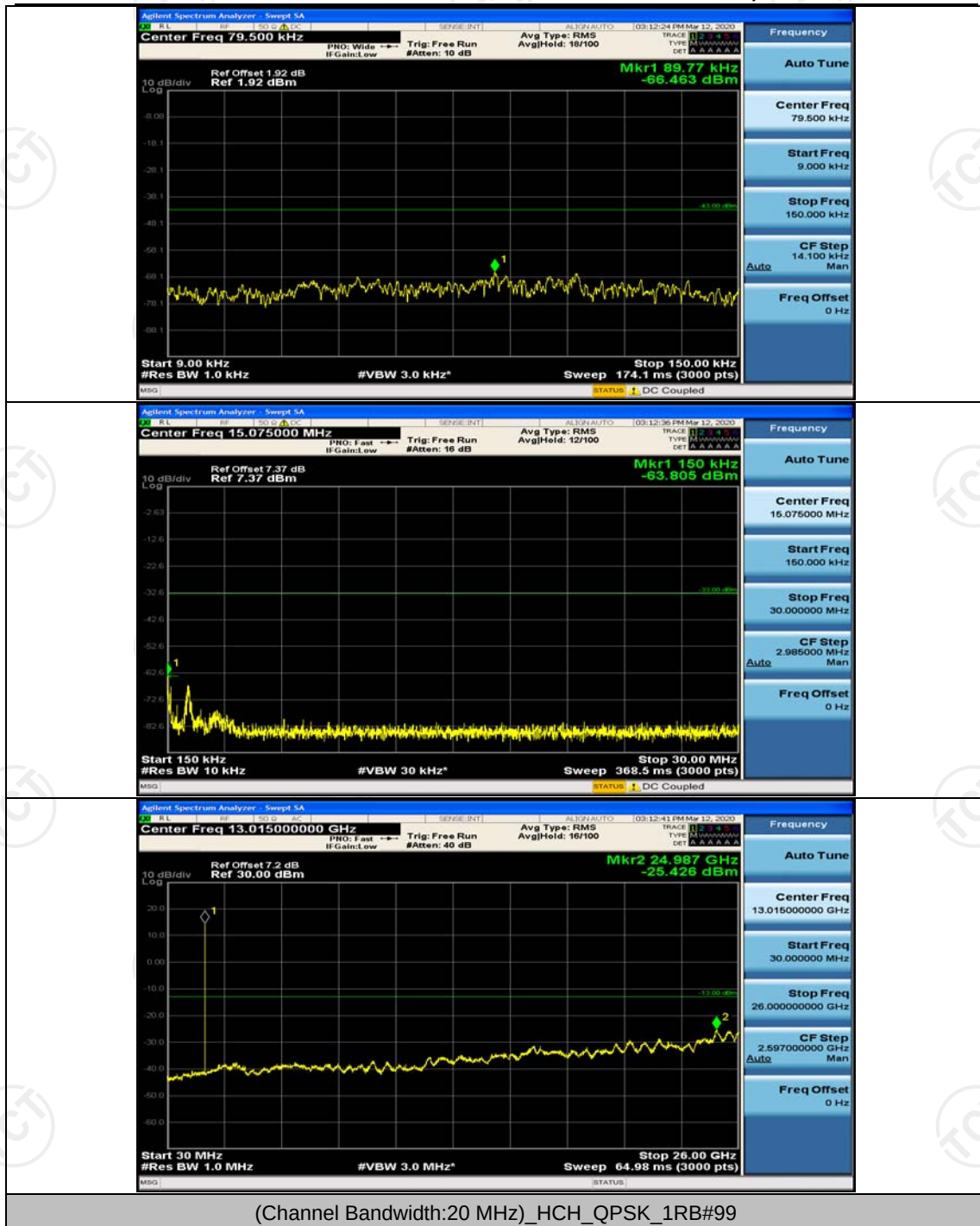


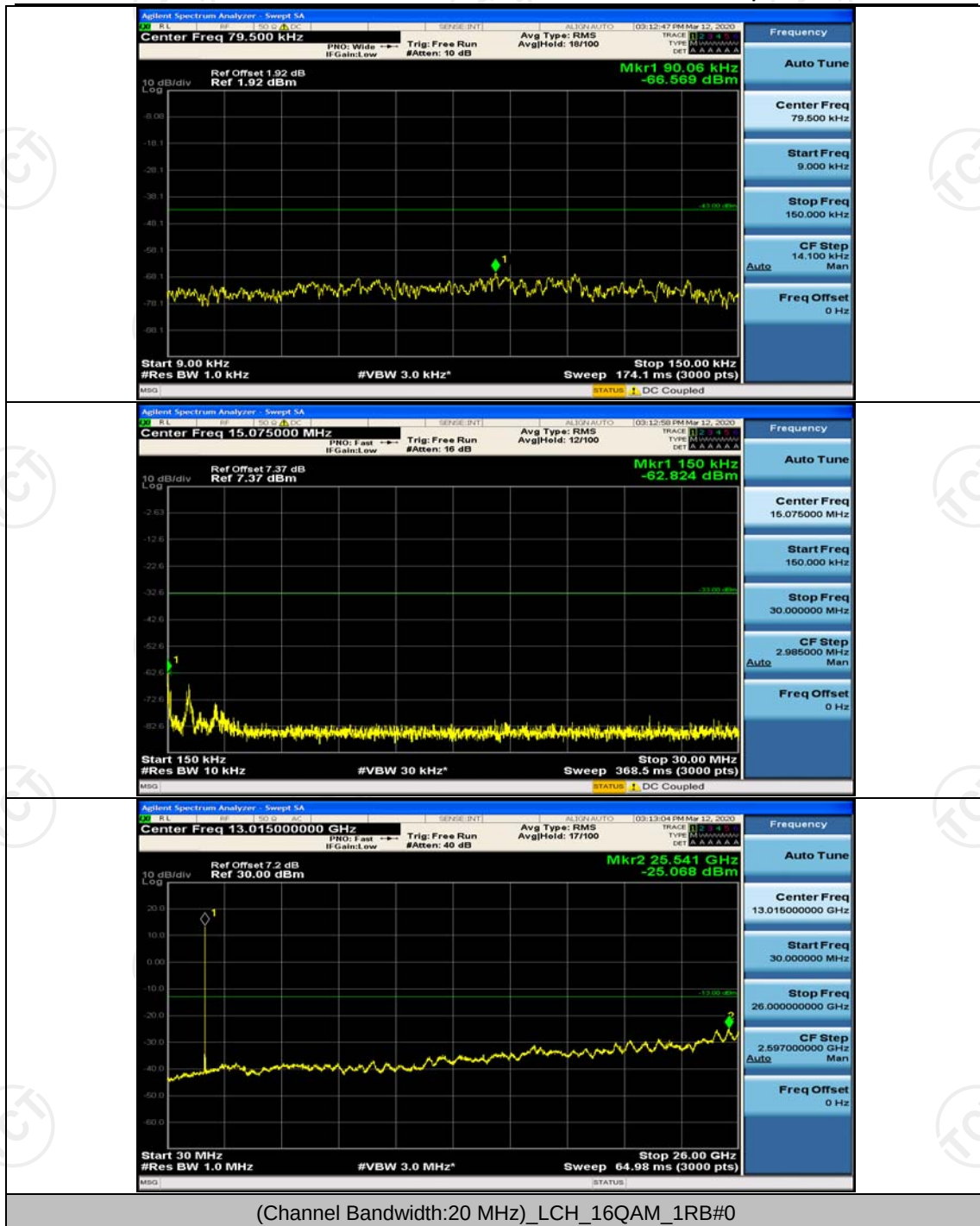


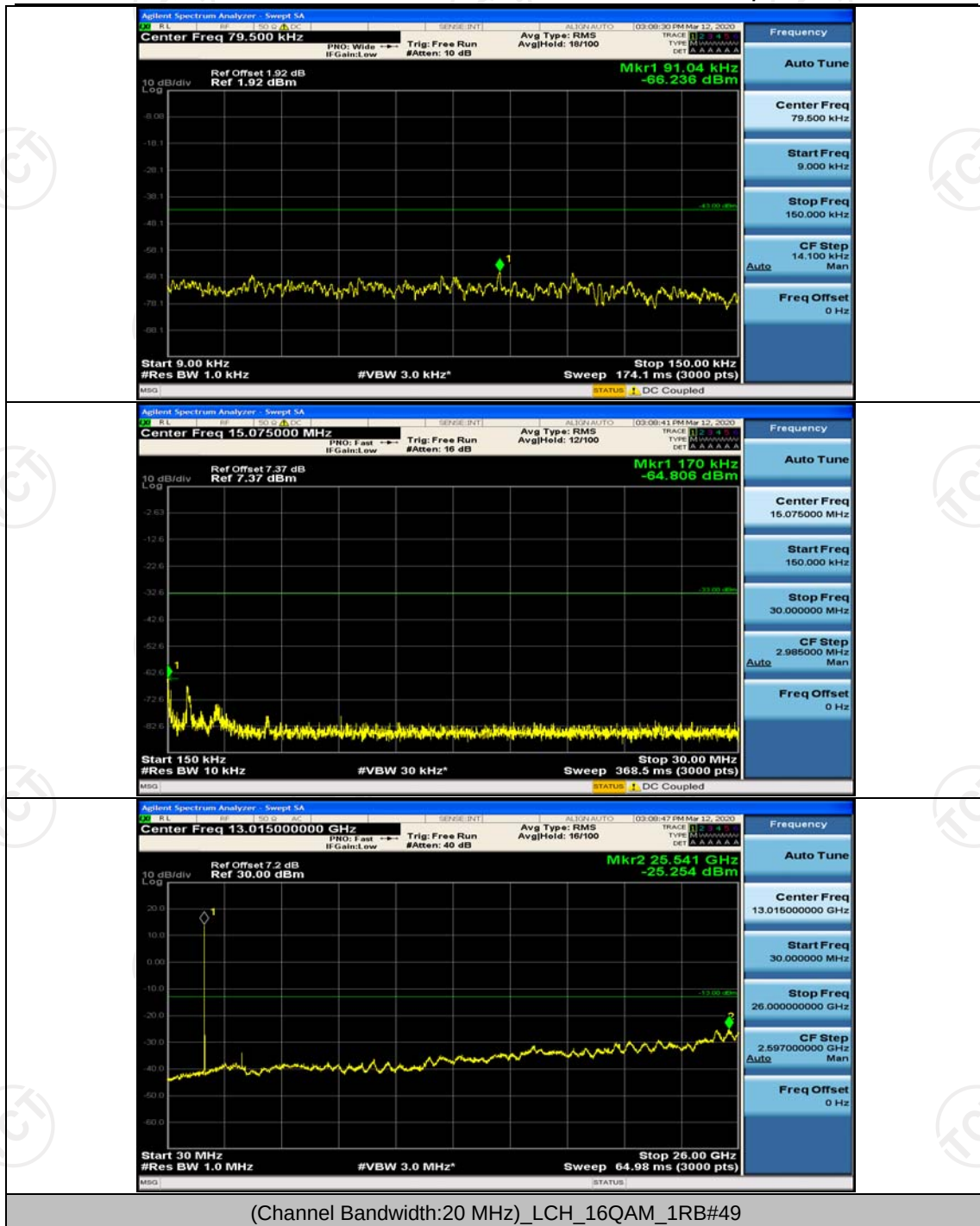


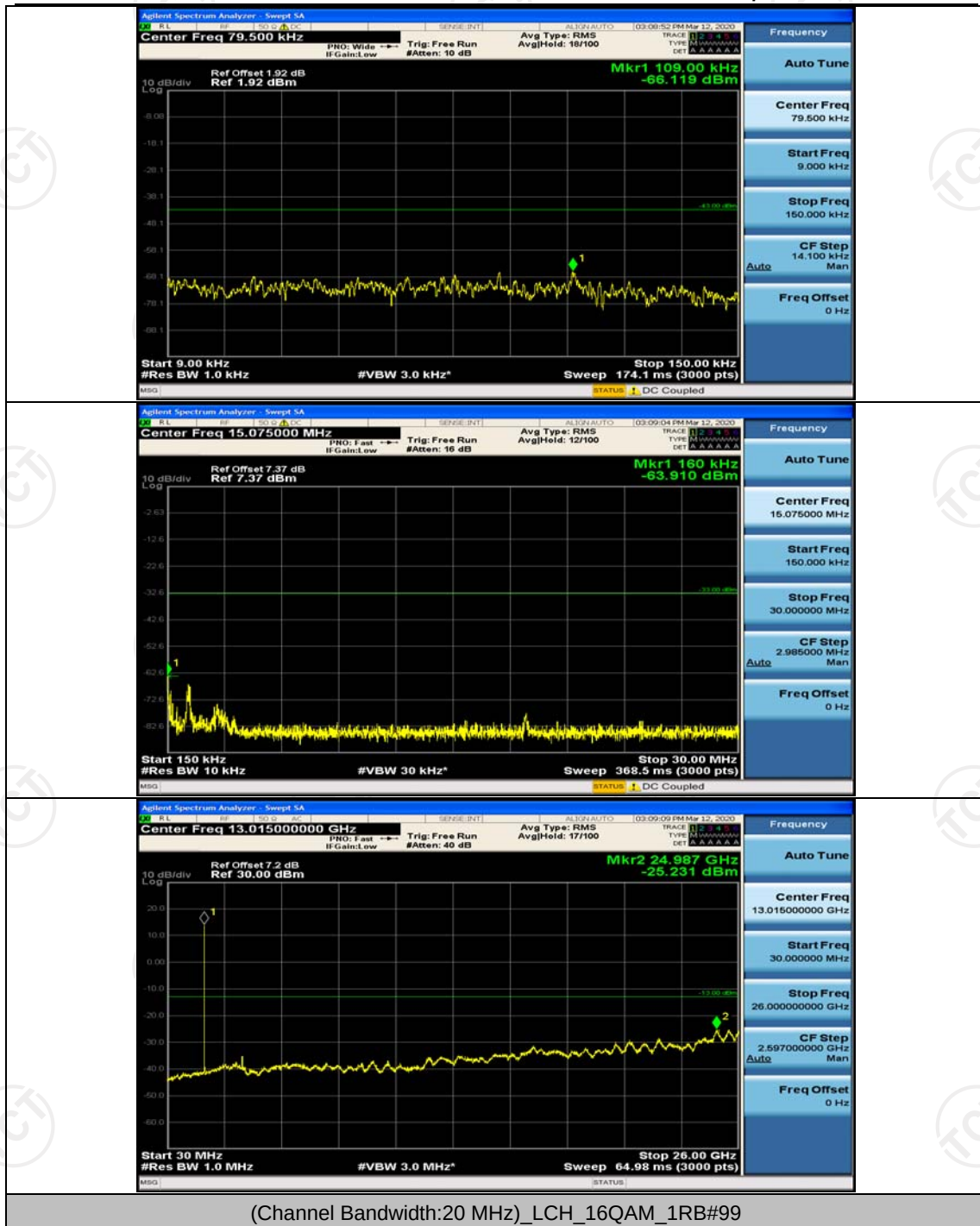


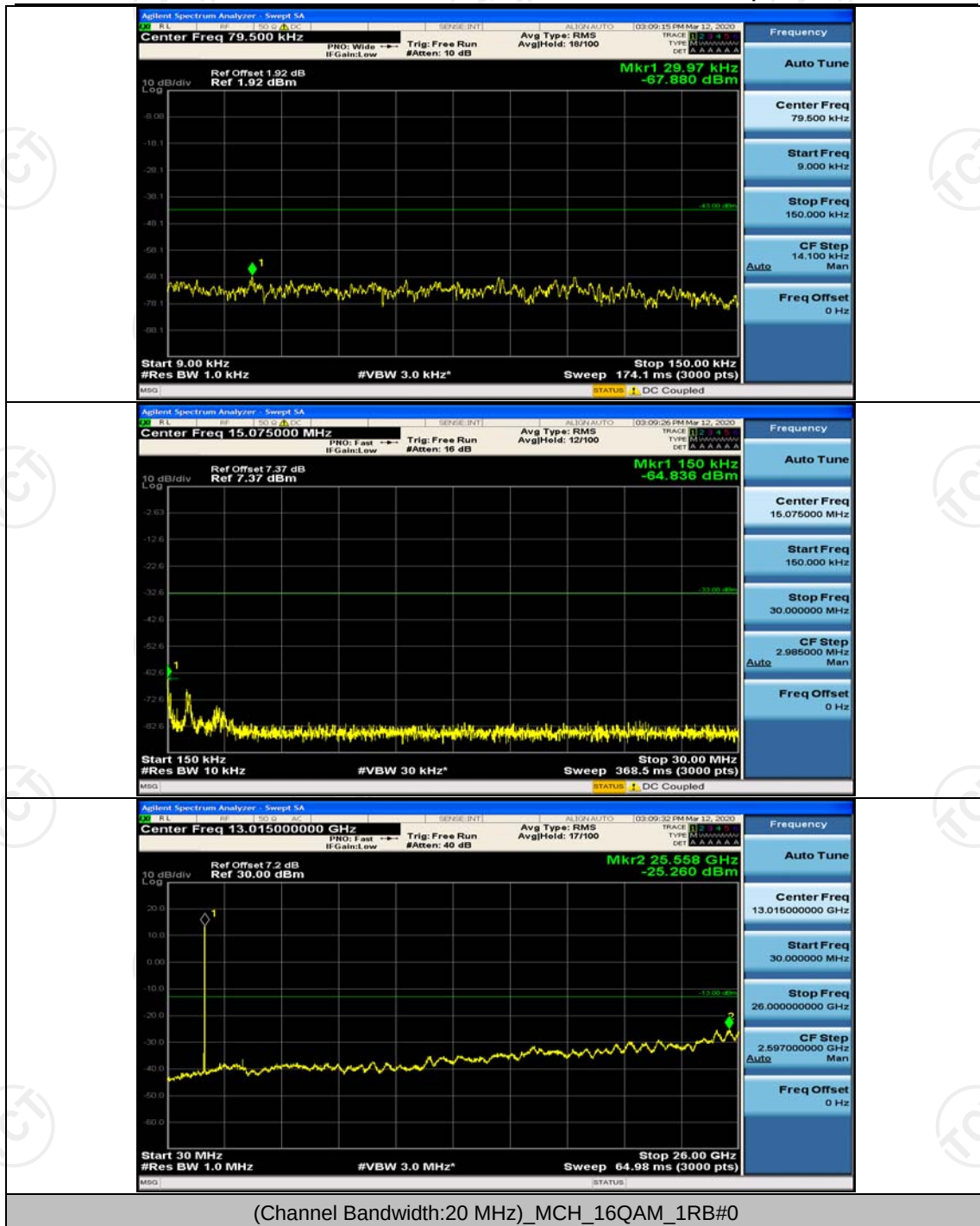


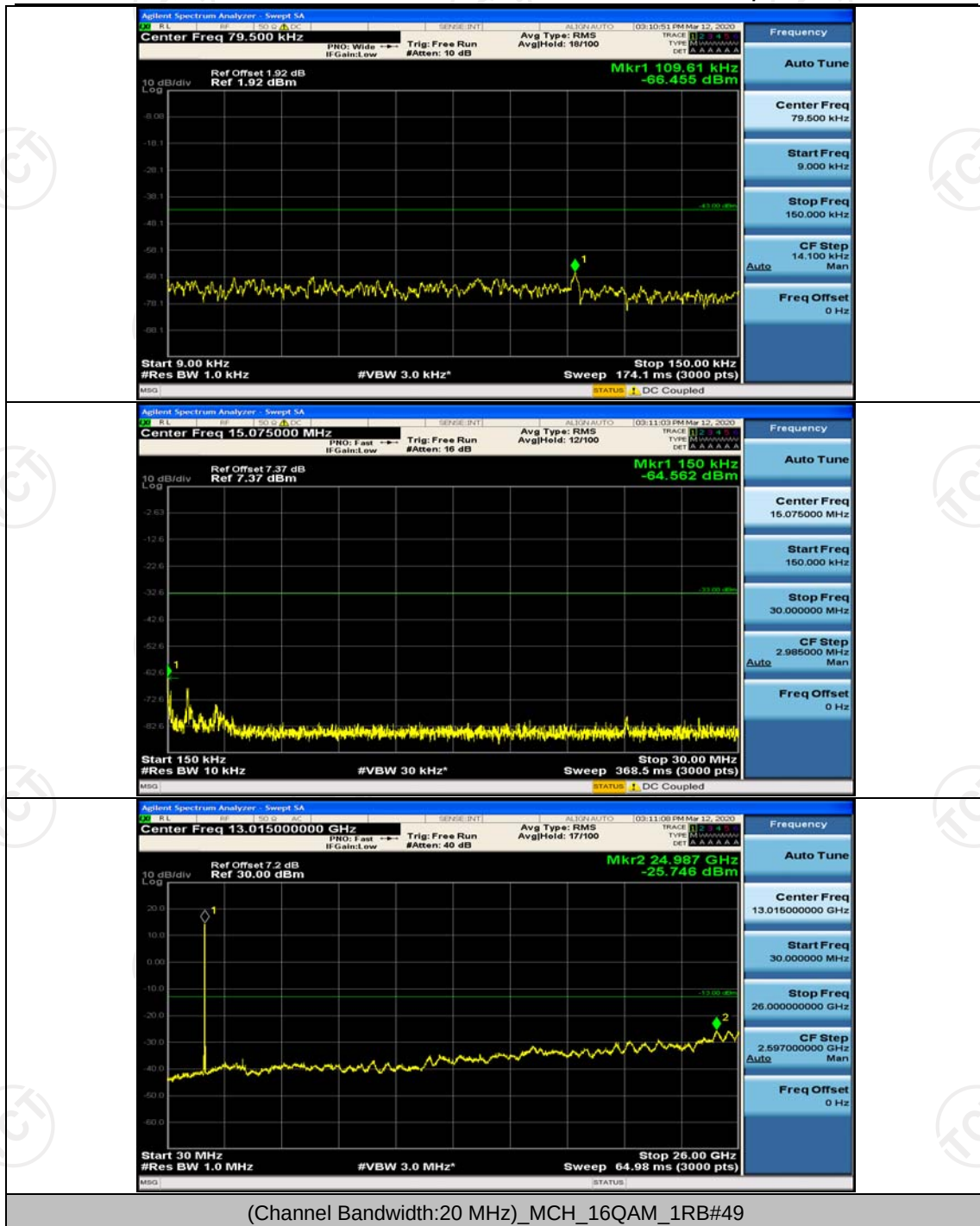


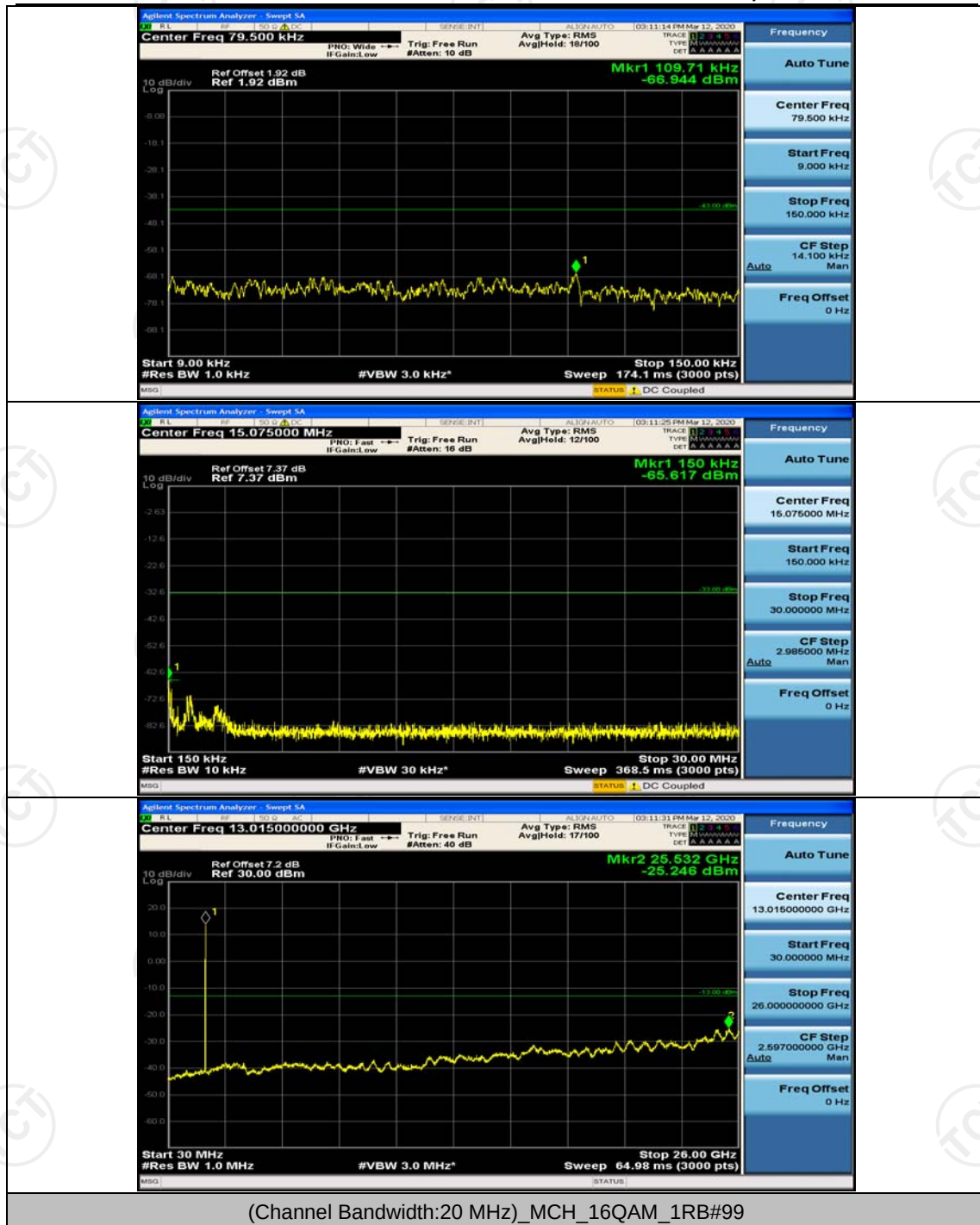


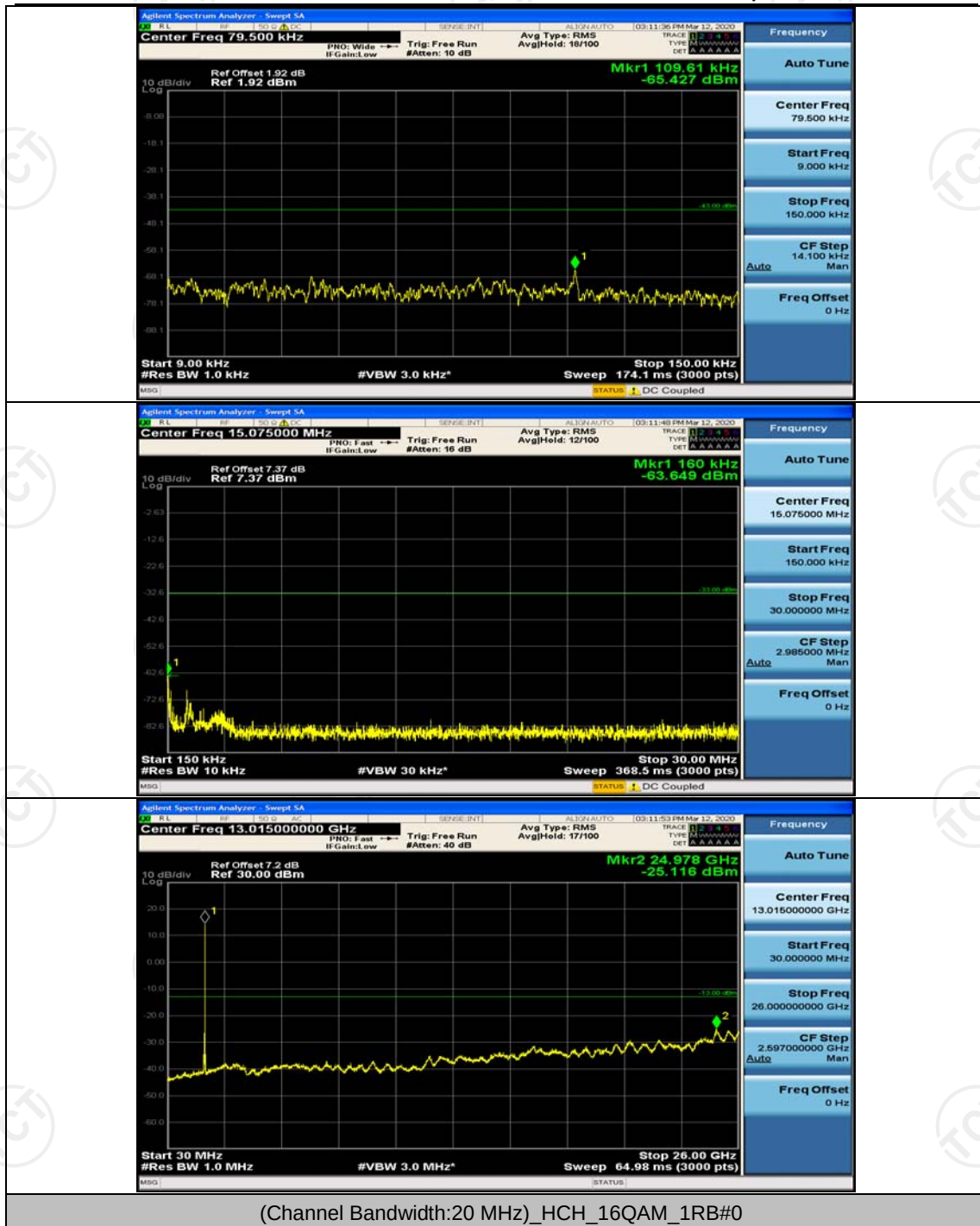


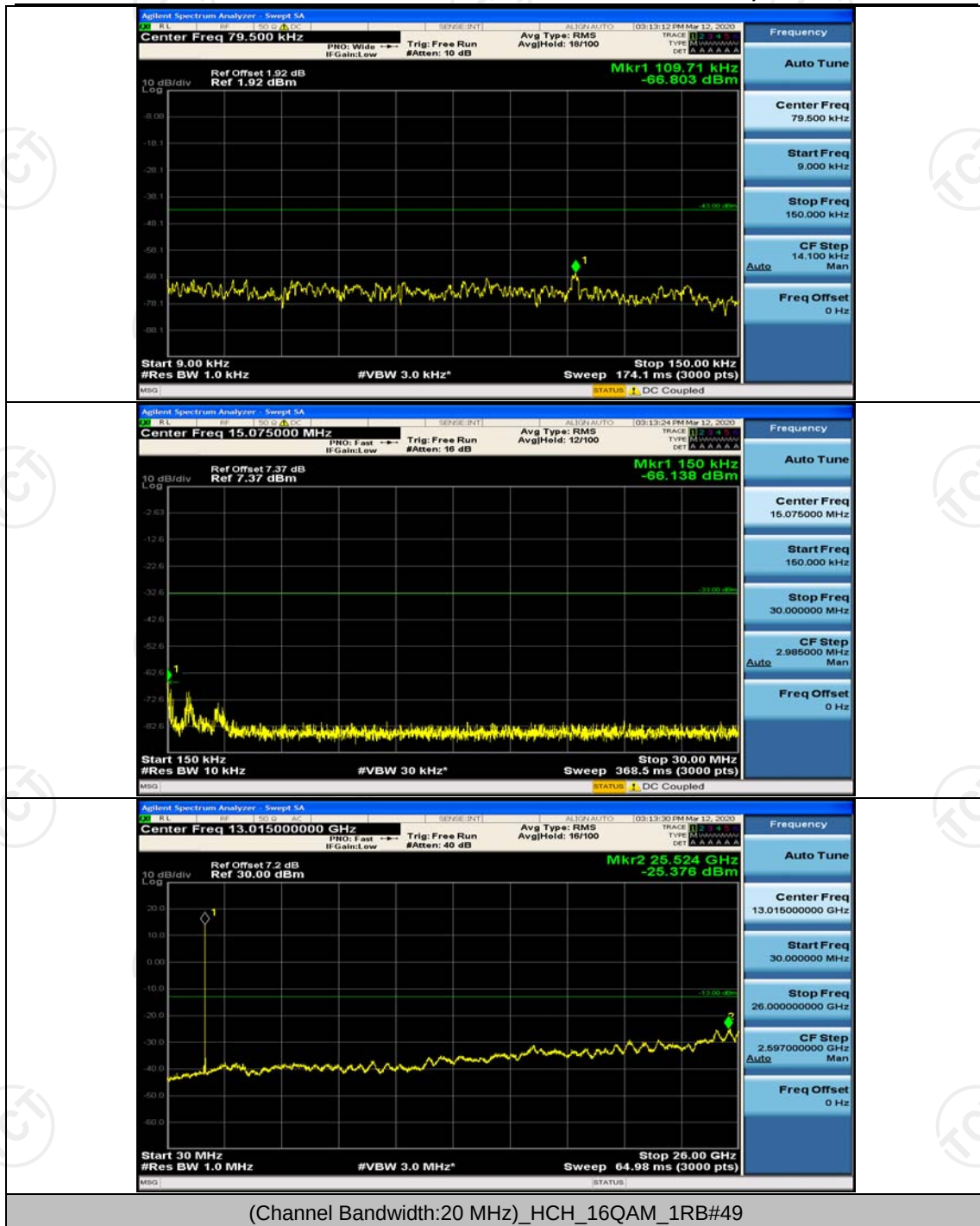


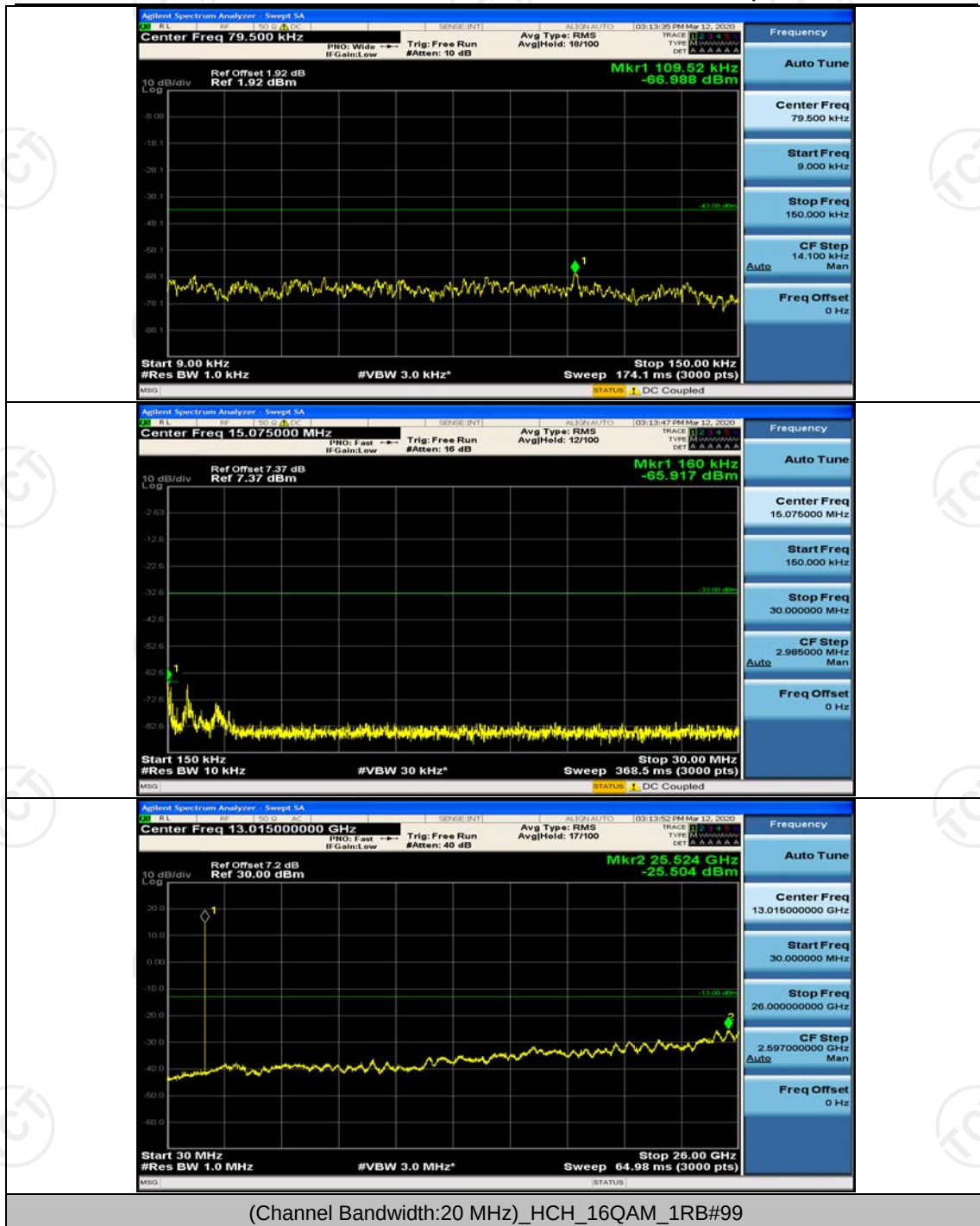


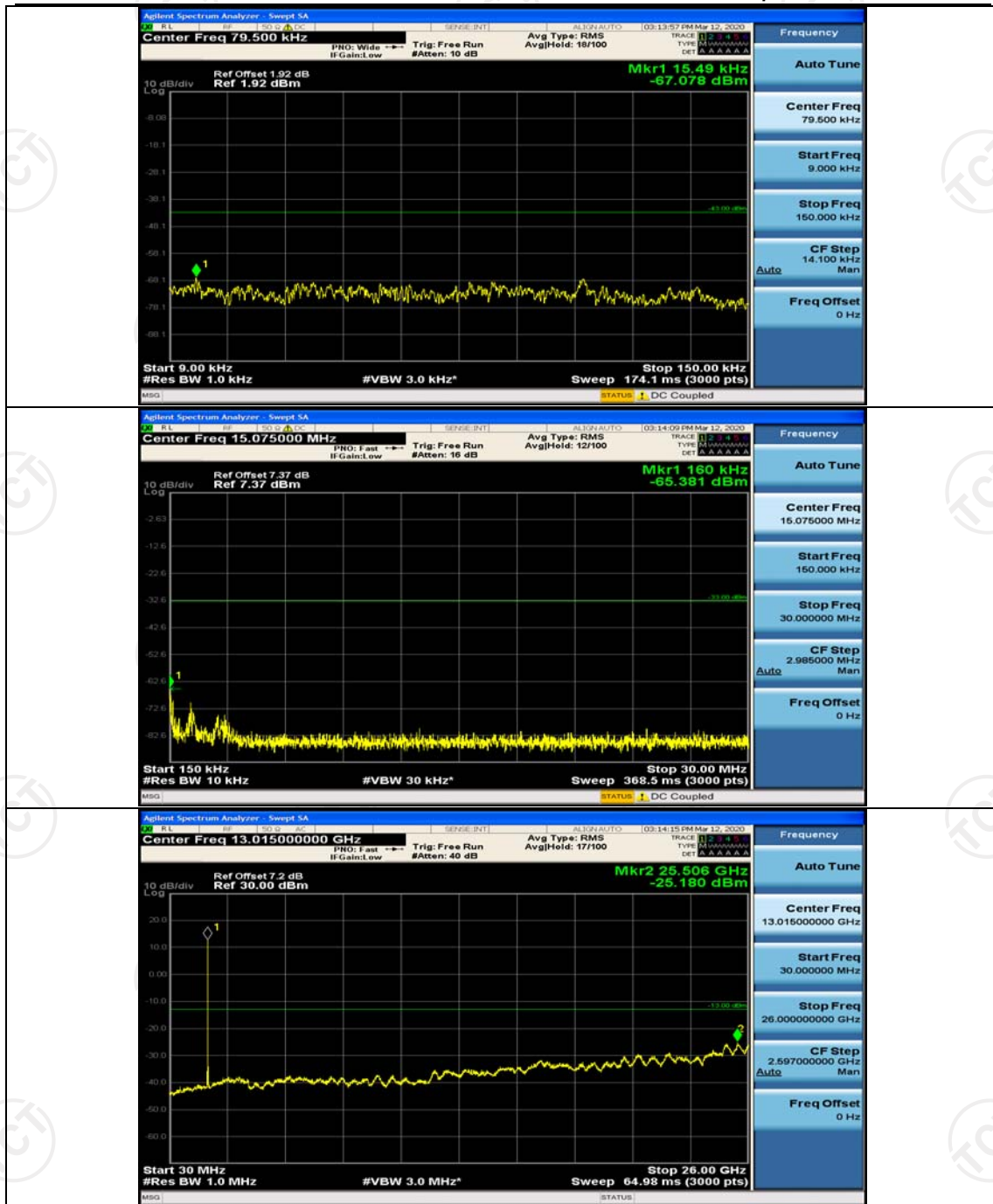












Appendix F: Frequency Stability

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	-0.41	-0.000242	± 2.5	PASS
		3.7	25	0.47	0.000276	± 2.5	PASS
		4.2	25	0.82	0.000476	± 2.5	PASS
	MCH	3.4	25	-0.29	-0.000167	± 2.5	PASS
		3.7	25	-0.40	-0.000231	± 2.5	PASS
		4.2	25	-0.13	-0.000074	± 2.5	PASS
	HCH	3.4	25	0.10	0.000058	± 2.5	PASS
		3.7	25	0.49	0.000281	± 2.5	PASS
		4.2	25	0.66	0.000380	± 2.5	PASS
16QAM	LCH	3.4	25	1.39	0.000811	± 2.5	PASS
		3.7	25	0.76	0.000443	± 2.5	PASS
		4.2	25	1.44	0.000844	± 2.5	PASS
	MCH	3.4	25	0.84	0.000493	± 2.5	PASS
		3.7	25	0.64	0.000372	± 2.5	PASS
		4.2	25	-1.23	-0.000702	± 2.5	PASS
	HCH	3.4	25	-0.53	-0.000302	± 2.5	PASS
		3.7	25	0.63	0.000359	± 2.5	PASS
		4.2	25	0.31	0.000179	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	3.7	-30	1.87	0.001094	± 2.5	PASS
		3.7	-20	3.29	0.001921	± 2.5	PASS
		3.7	-10	-0.39	-0.000226	± 2.5	PASS
		3.7	0	0.79	0.000459	± 2.5	PASS
		3.7	10	-0.21	-0.000124	± 2.5	PASS
		3.7	20	2.17	0.001271	± 2.5	PASS
		3.7	30	0.59	0.000343	± 2.5	PASS
		3.7	40	1.43	0.000836	± 2.5	PASS
		3.7	50	-0.26	-0.000151	± 2.5	PASS
	MCH	3.7	-30	-3.91	-0.002277	± 2.5	PASS
		3.7	-20	-2.69	-0.001568	± 2.5	PASS
		3.7	-10	-2.53	-0.001476	± 2.5	PASS
		3.7	0	-1.63	-0.000951	± 2.5	PASS
		3.7	10	-2.86	-0.001640	± 2.5	PASS
		3.7	20	-1.07	-0.000619	± 2.5	PASS
	3.7	30	-1.23	-0.000710	± 2.5	PASS	

	HCH	3.7	40	0.03	0.000017	± 2.5	PASS
		3.7	50	-0.51	-0.000297	± 2.5	PASS
		3.7	-30	0.84	0.000487	± 2.5	PASS
		3.7	-20	1.12	0.000644	± 2.5	PASS
		3.7	-10	-0.03	-0.000017	± 2.5	PASS
		3.7	0	1.66	0.000958	± 2.5	PASS
		3.7	10	1.70	0.000990	± 2.5	PASS
		3.7	20	-2.85	-0.001623	± 2.5	PASS
		3.7	30	-3.35	-0.001908	± 2.5	PASS
		3.7	40	-2.56	-0.001460	± 2.5	PASS
		3.7	50	-2.80	-0.001598	± 2.5	PASS
16QAM	LCH	3.7	-30	-0.39	-0.000225	± 2.5	PASS
		3.7	-20	-0.80	-0.000466	± 2.5	PASS
		3.7	-10	-0.86	-0.000500	± 2.5	PASS
		3.7	0	0.04	0.000025	± 2.5	PASS
		3.7	10	1.70	0.000990	± 2.5	PASS
		3.7	20	0.79	0.000460	± 2.5	PASS
		3.7	30	1.07	0.000627	± 2.5	PASS
		3.7	40	-0.01	-0.000008	± 2.5	PASS
		3.7	50	0.46	0.000268	± 2.5	PASS
	MCH	3.7	-30	-1.72	-0.000980	± 2.5	PASS
		3.7	-20	-3.85	-0.002196	± 2.5	PASS
		3.7	-10	-3.81	-0.002171	± 2.5	PASS
		3.7	0	-2.90	-0.001657	± 2.5	PASS
		3.7	10	1.09	0.000632	± 2.5	PASS
		3.7	20	0.92	0.000528	± 2.5	PASS
		3.7	30	-0.26	-0.000149	± 2.5	PASS
		3.7	40	-0.53	-0.000306	± 2.5	PASS
		3.7	50	0.00	0.000000	± 2.5	PASS
	HCH	3.7	-30	0.41	0.000239	± 2.5	PASS
		3.7	-20	1.09	0.000632	± 2.5	PASS
		3.7	-10	-0.84	-0.000487	± 2.5	PASS
		3.7	0	0.57	0.000330	± 2.5	PASS
		3.7	10	0.29	0.000165	± 2.5	PASS
		3.7	20	-3.38	-0.001924	± 2.5	PASS
		3.7	30	-2.66	-0.001517	± 2.5	PASS
		3.7	40	-1.90	-0.001085	± 2.5	PASS
		3.7	50	-2.17	-0.001239	± 2.5	PASS