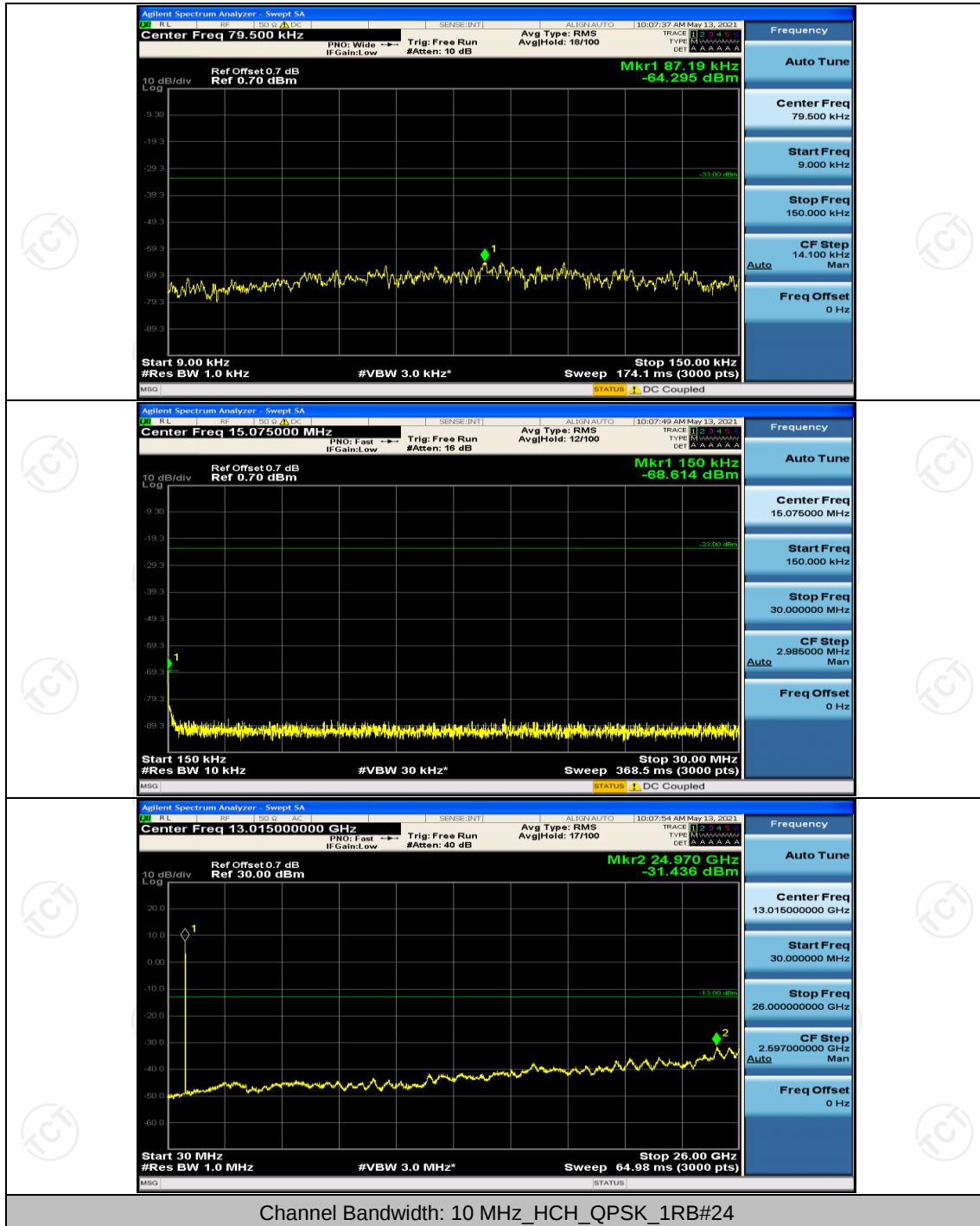
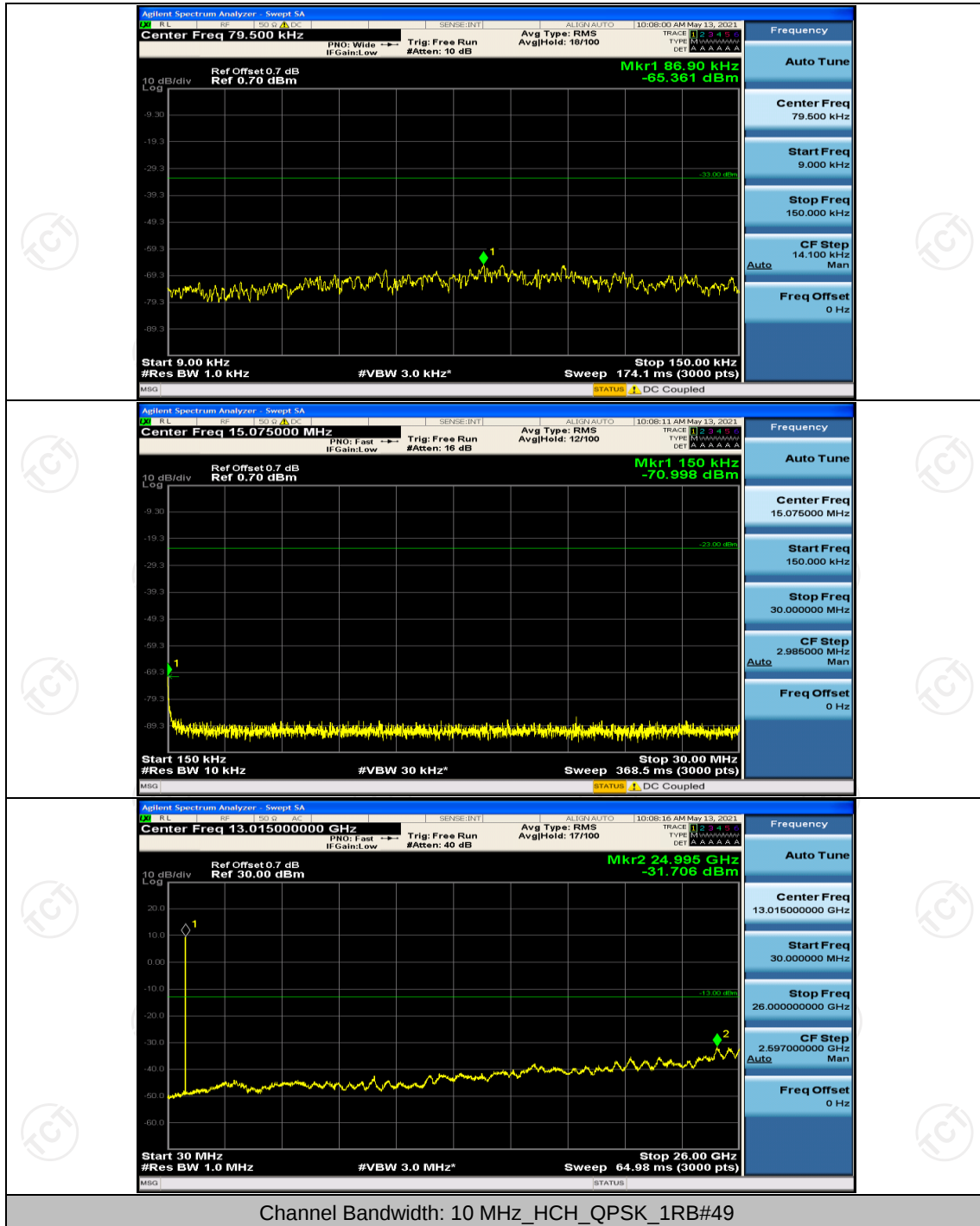
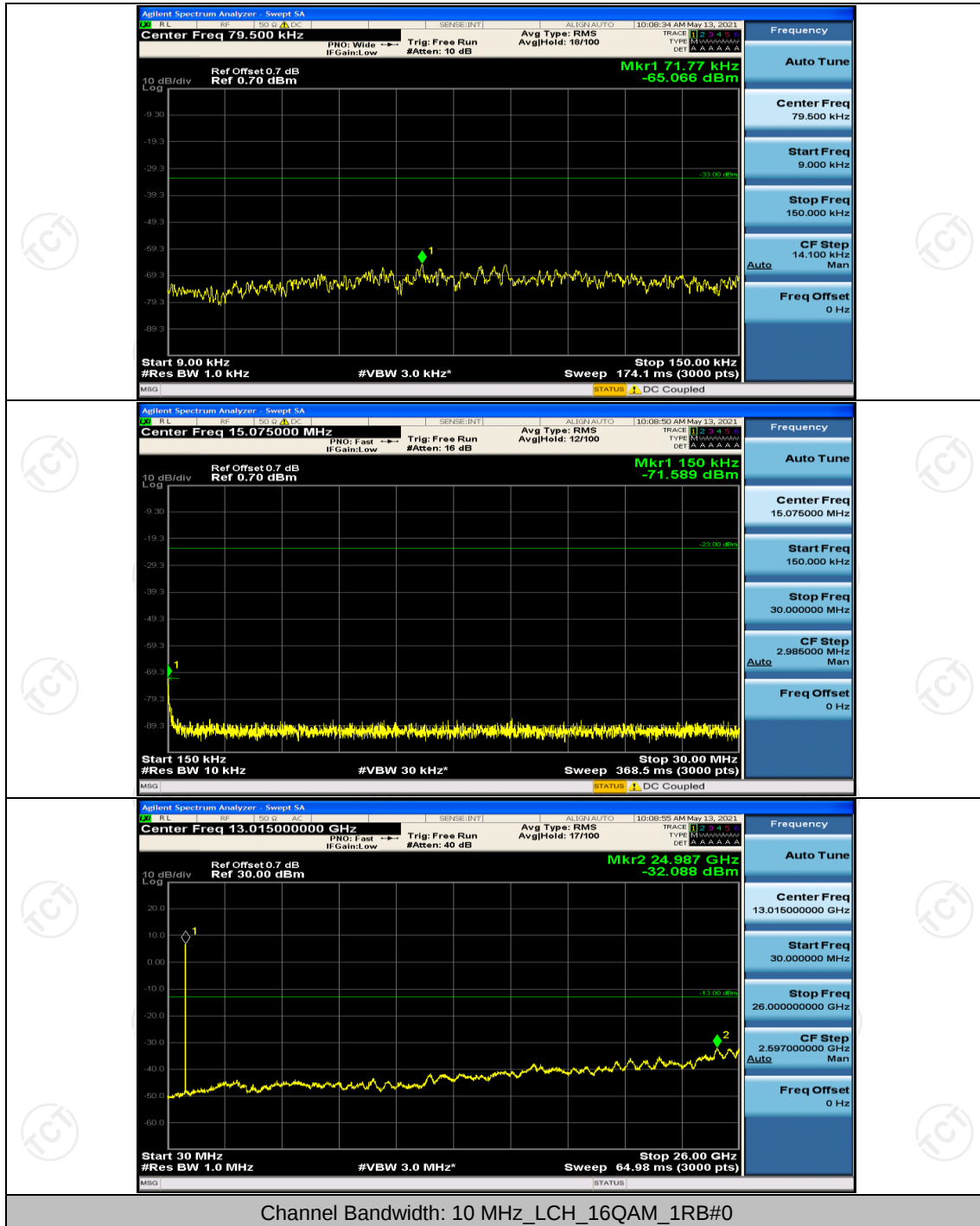
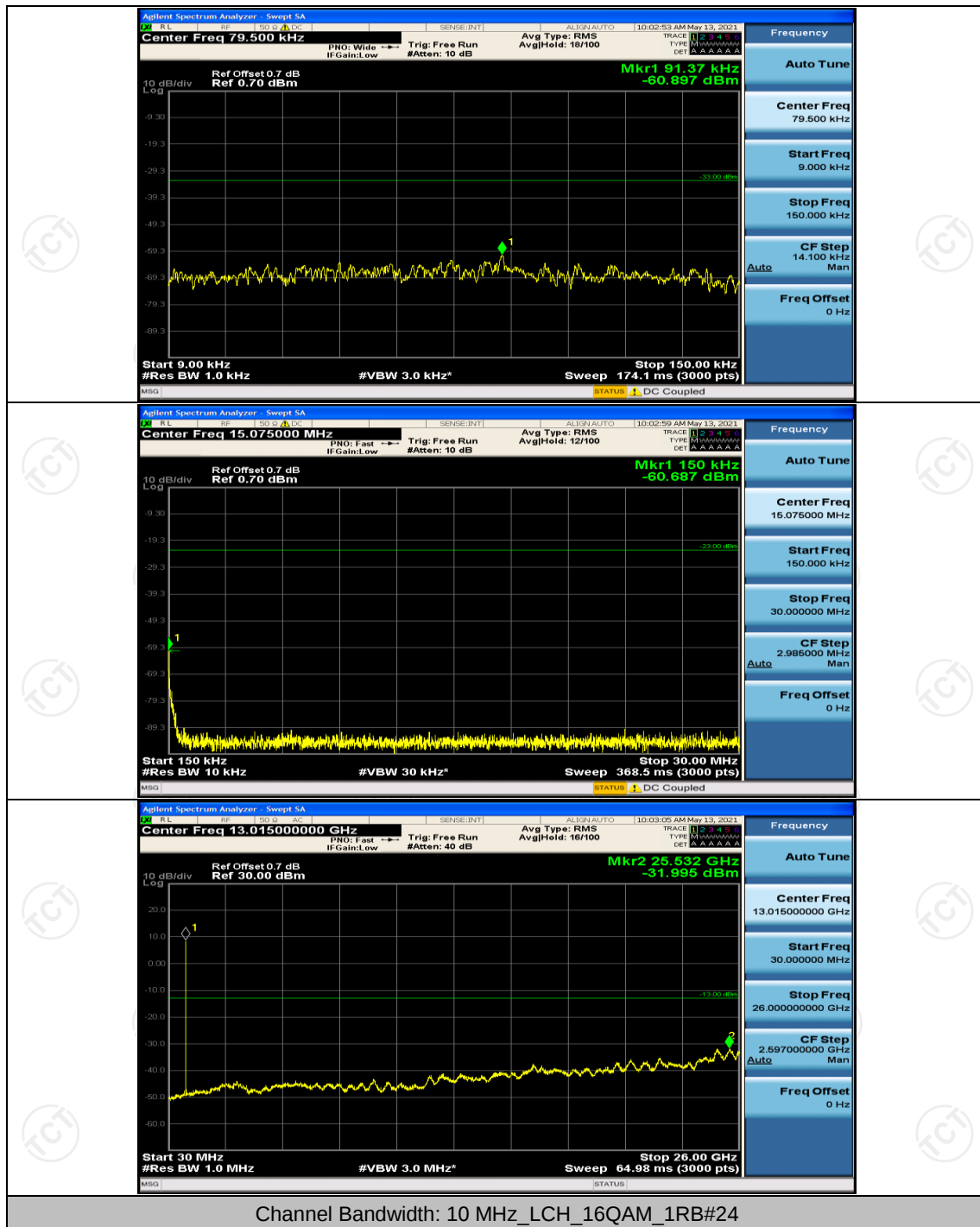
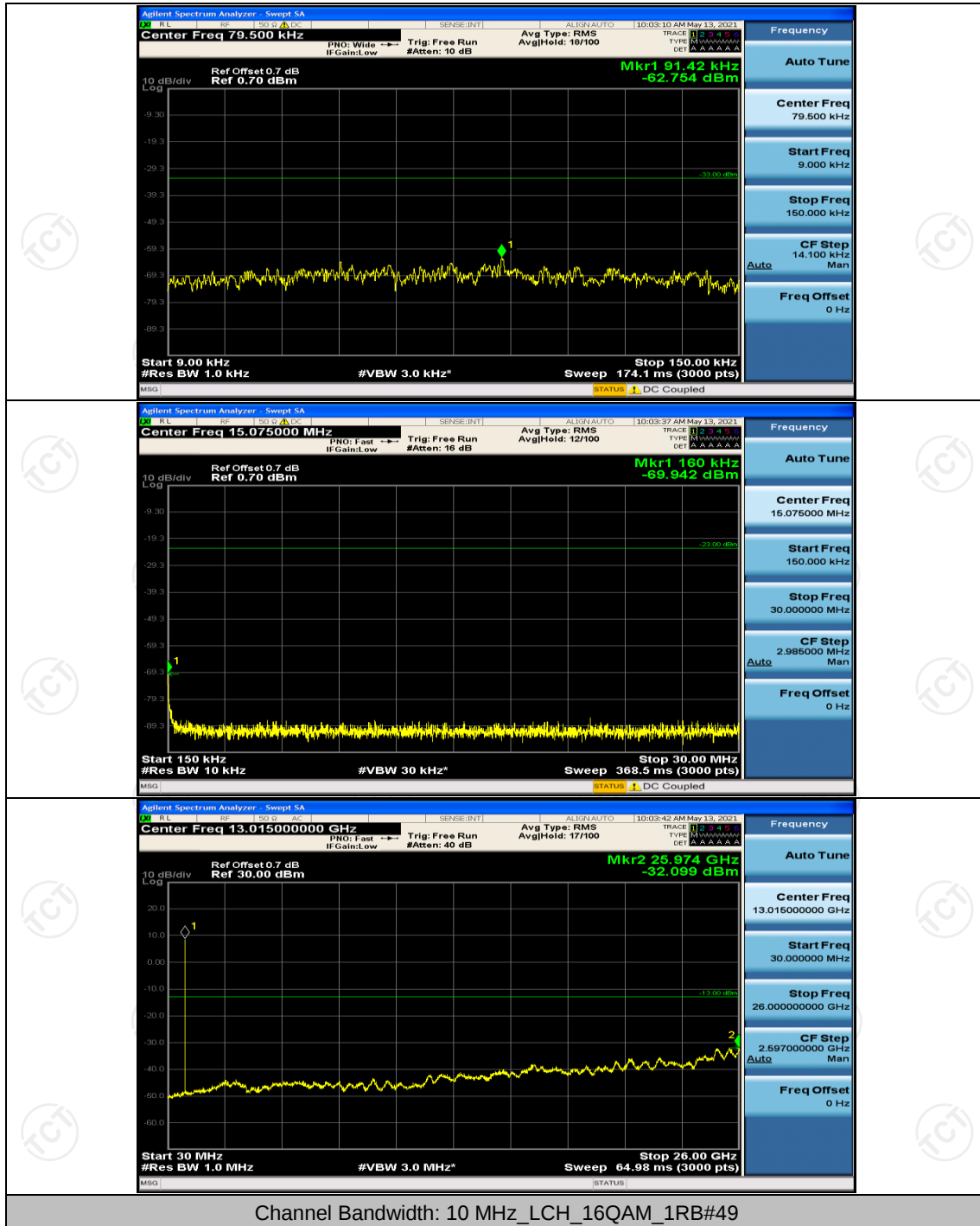


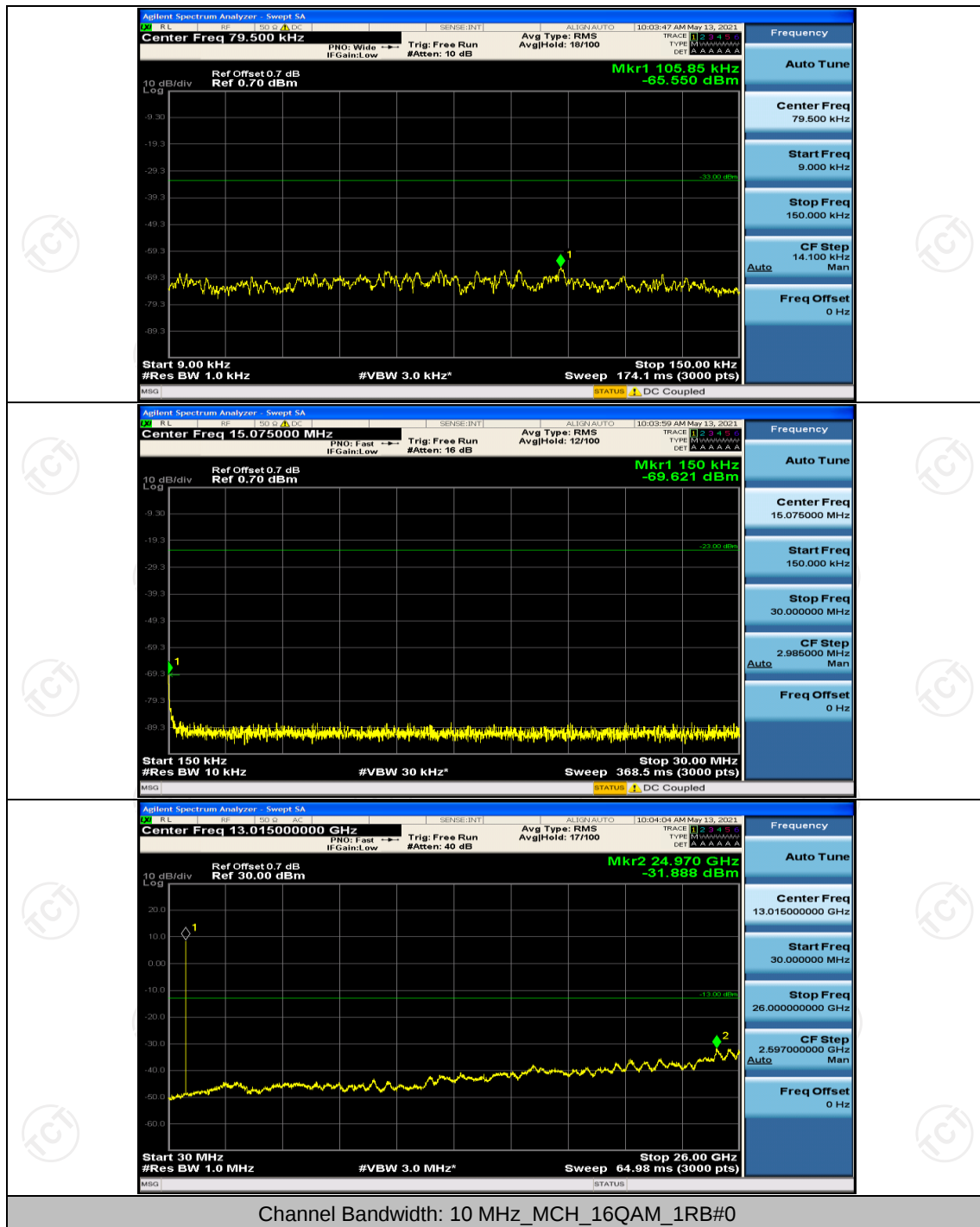


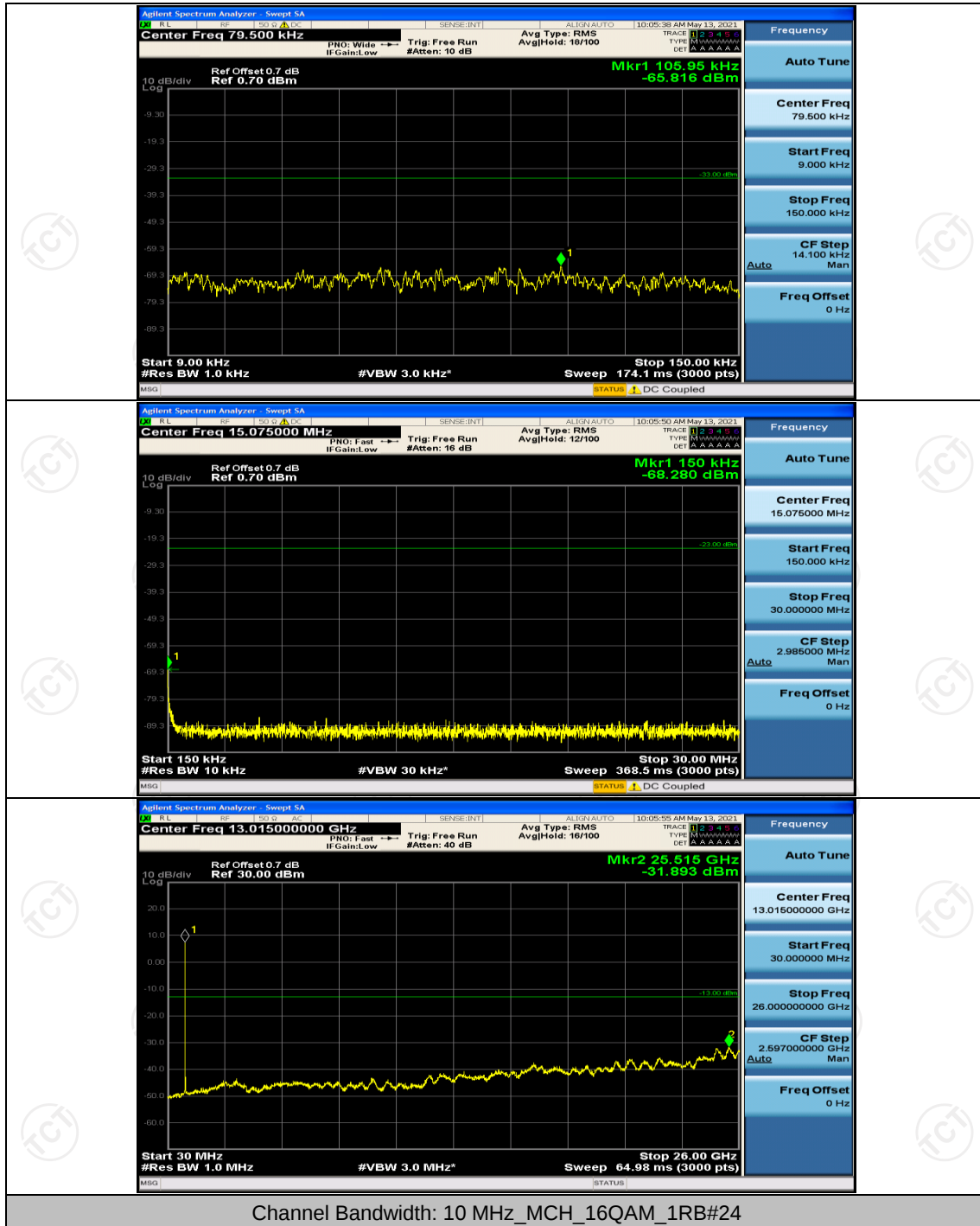


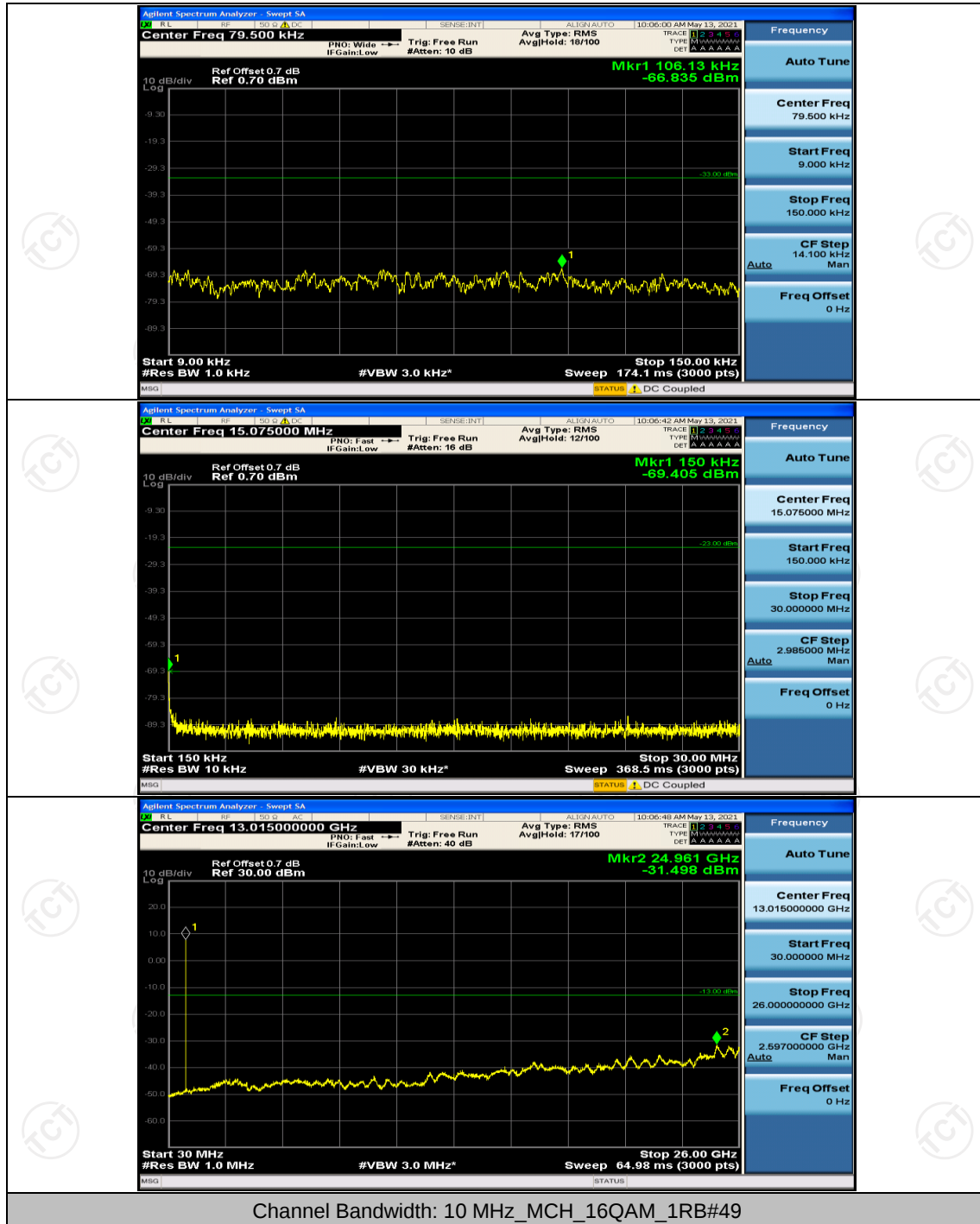


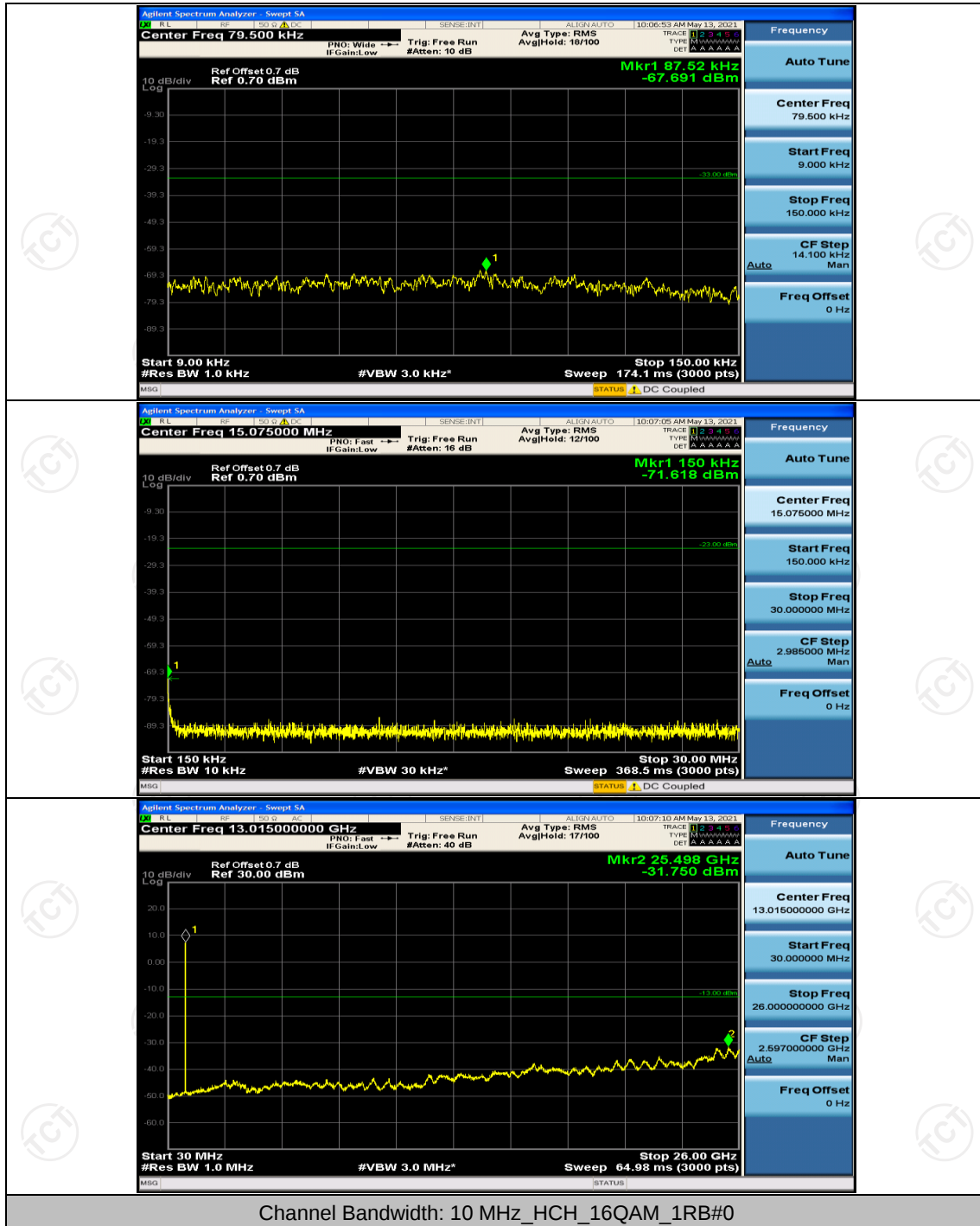


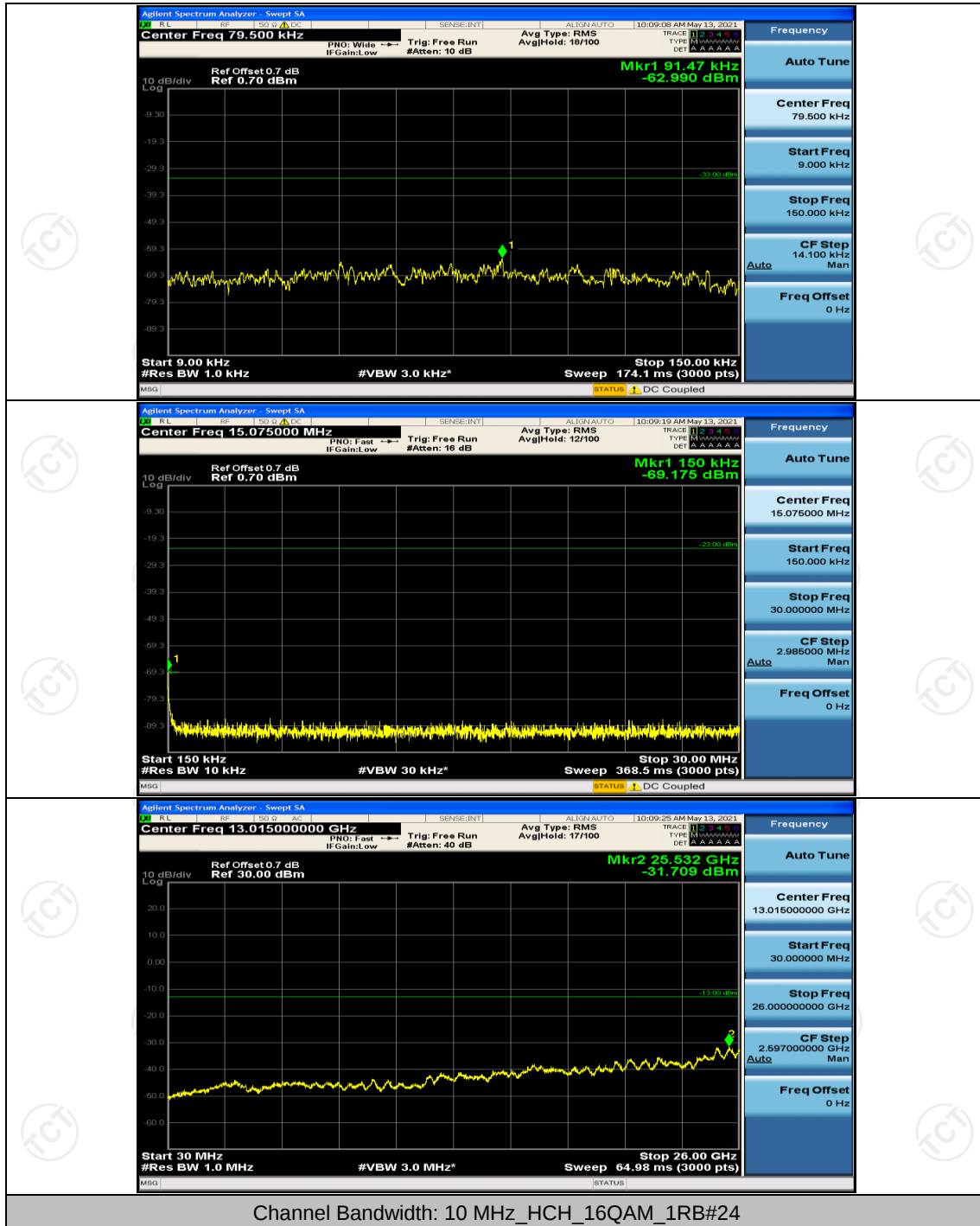


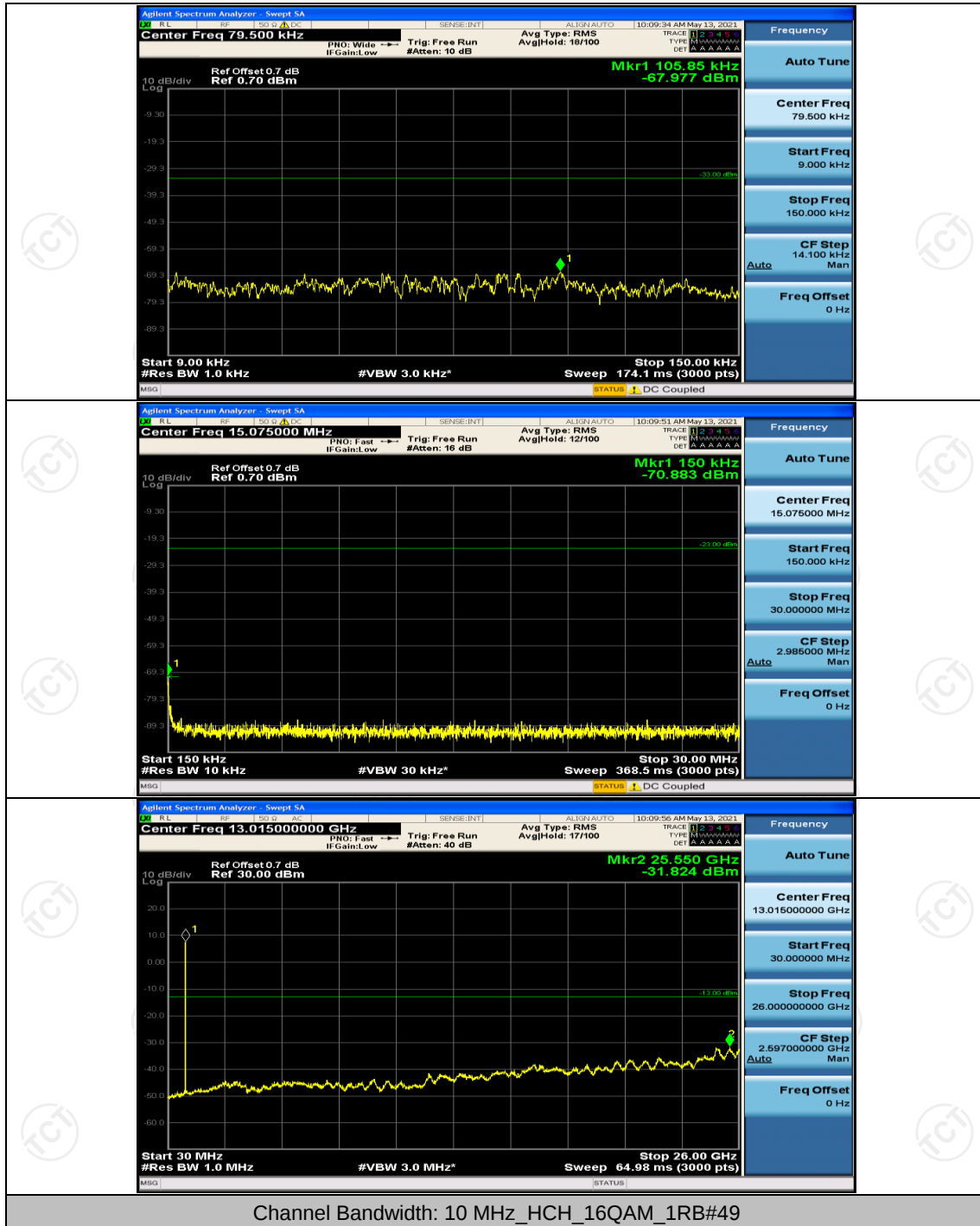


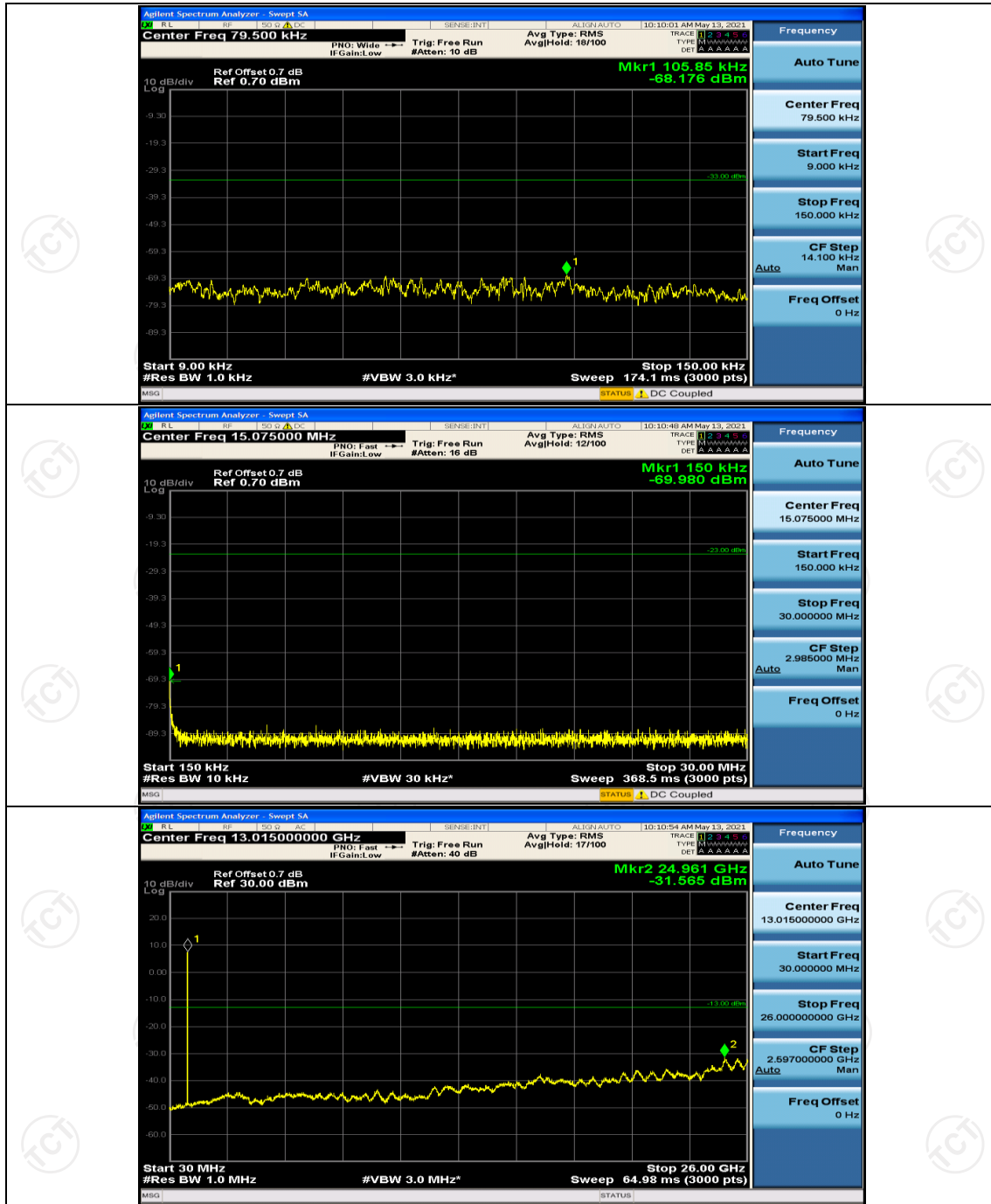












Appendix F: Frequency Stability

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	-1.73	-0.002094	± 2.5	PASS
		VN	TN	-1.82	-0.002198	± 2.5	PASS
		VH	TN	-2.25	-0.002717	± 2.5	PASS
	MCH	VL	TN	-1.65	-0.001990	± 2.5	PASS
		VN	TN	-0.37	-0.000445	± 2.5	PASS
		VH	TN	-0.54	-0.000644	± 2.5	PASS
	HCH	VL	TN	-1.52	-0.001797	± 2.5	PASS
		VN	TN	-1.57	-0.001864	± 2.5	PASS
		VH	TN	-1.59	-0.001881	± 2.5	PASS
16QAM	LCH	VL	TN	-1.16	-0.001385	± 2.5	PASS
		VN	TN	-0.94	-0.001129	± 2.5	PASS
		VH	TN	-0.74	-0.000889	± 2.5	PASS
	MCH	VL	TN	-0.99	-0.001180	± 2.5	PASS
		VN	TN	-1.56	-0.001864	± 2.5	PASS
		VH	TN	-0.33	-0.000399	± 2.5	PASS
	HCH	VL	TN	-1.67	-0.001975	± 2.5	PASS
		VN	TN	-2.79	-0.003291	± 2.5	PASS
		VH	TN	-1.37	-0.001620	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.90	-0.001092	± 2.5	PASS
		VN	-20	-0.90	-0.001092	± 2.5	PASS
		VN	-10	-1.22	-0.001473	± 2.5	PASS
		VN	0	-0.62	-0.000745	± 2.5	PASS
		VN	10	-0.10	-0.000121	± 2.5	PASS
		VN	20	-0.23	-0.000278	± 2.5	PASS
		VN	30	-1.49	-0.001804	± 2.5	PASS
		VN	40	-2.13	-0.002585	± 2.5	PASS
		VN	50	-1.93	-0.002342	± 2.5	PASS
	MCH	VN	-30	-1.09	-0.001311	± 2.5	PASS
		VN	-20	-0.93	-0.001098	± 2.5	PASS
		VN	-10	-1.62	-0.001910	± 2.5	PASS
		VN	0	-0.62	-0.000727	± 2.5	PASS
		VN	10	-1.16	-0.001369	± 2.5	PASS
		VN	20	-0.89	-0.001060	± 2.5	PASS

		VN	30	-0.09	-0.000103	± 2.5	PASS
		VN	40	-1.29	-0.001539	± 2.5	PASS
		VN	50	-0.44	-0.000530	± 2.5	PASS
	HCH	VN	-30	-1.96	-0.002343	± 2.5	PASS
		VN	-20	-1.92	-0.002292	± 2.5	PASS
		VN	-10	-1.04	-0.001248	± 2.5	PASS
		VN	0	-1.43	-0.001710	± 2.5	PASS
		VN	10	-2.93	-0.003460	± 2.5	PASS
		VN	20	-0.47	-0.000556	± 2.5	PASS
		VN	30	-0.69	-0.000809	± 2.5	PASS
		VN	40	0.19	0.000219	± 2.5	PASS
		VN	50	-0.44	-0.000523	± 2.5	PASS
16QAM	LCH	VN	-30	-2.68	-0.003156	± 2.5	PASS
		VN	-20	-1.19	-0.001401	± 2.5	PASS
		VN	-10	-1.79	-0.002110	± 2.5	PASS
		VN	0	-2.02	-0.002380	± 2.5	PASS
		VN	10	-1.32	-0.001553	± 2.5	PASS
		VN	20	-2.06	-0.002498	± 2.5	PASS
		VN	30	-0.90	-0.001092	± 2.5	PASS
		VN	40	-1.22	-0.001473	± 2.5	PASS
		VN	50	-0.62	-0.000745	± 2.5	PASS
	MCH	VN	-30	-0.10	-0.000121	± 2.5	PASS
		VN	-20	-1.06	-0.001265	± 2.5	PASS
		VN	-10	-2.49	-0.002976	± 2.5	PASS
		VN	0	-1.19	-0.001419	± 2.5	PASS
		VN	10	-1.72	-0.002052	± 2.5	PASS
		VN	20	-1.77	-0.002121	± 2.5	PASS
		VN	30	-0.97	-0.001163	± 2.5	PASS
		VN	40	-0.26	-0.000308	± 2.5	PASS
		VN	50	-1.03	-0.001231	± 2.5	PASS
	HCH	VN	-30	-0.29	-0.000342	± 2.5	PASS
		VN	-20	-0.44	-0.000537	± 2.5	PASS
		VN	-10	-0.24	-0.000295	± 2.5	PASS
		VN	0	-0.51	-0.000624	± 2.5	PASS
		VN	10	0.54	0.000659	± 2.5	PASS
		VN	20	0.41	0.000489	± 2.5	PASS
		VN	30	-0.33	-0.000388	± 2.5	PASS
		VN	40	0.31	0.000371	± 2.5	PASS
		VN	50	-0.04	-0.000051	± 2.5	PASS