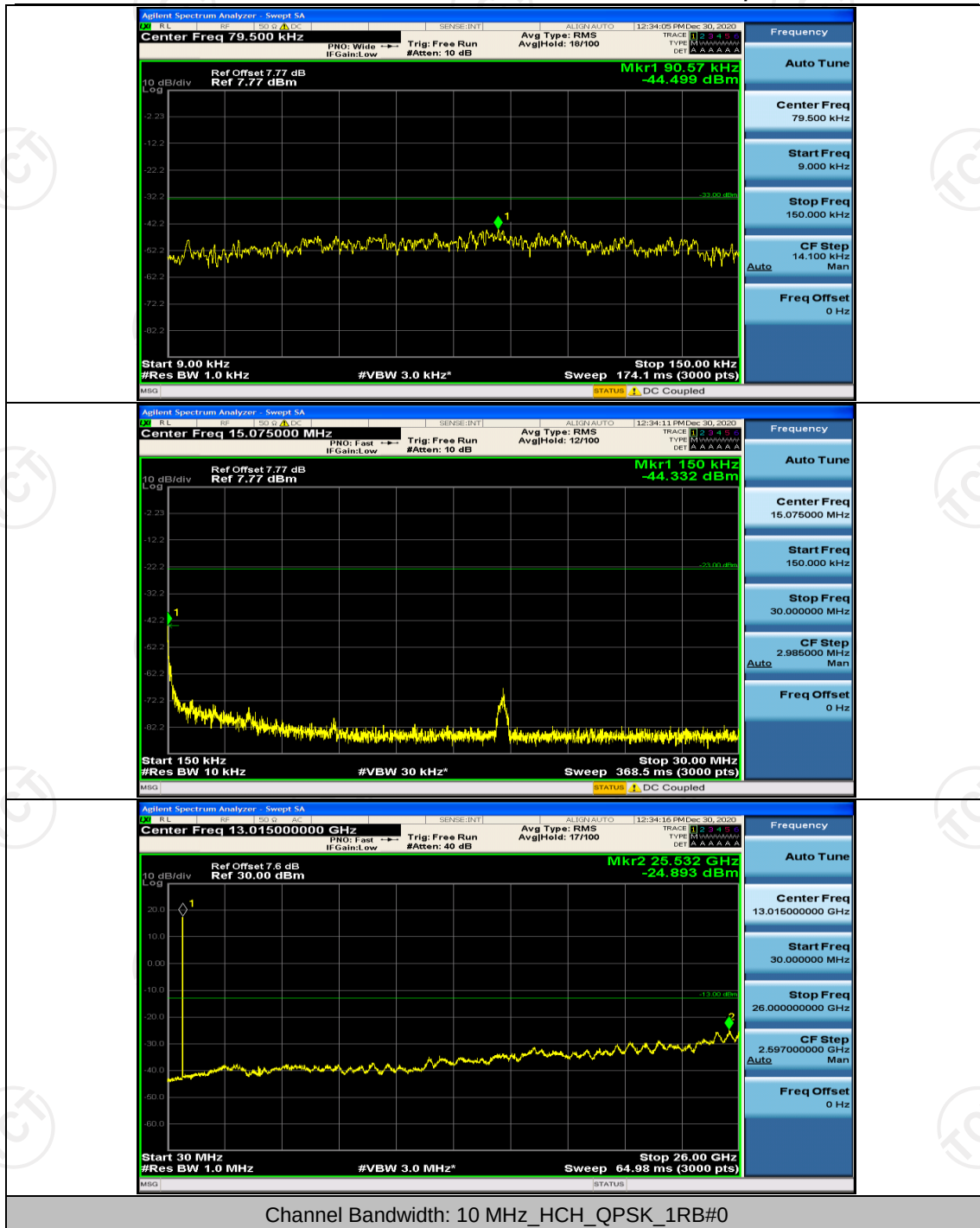
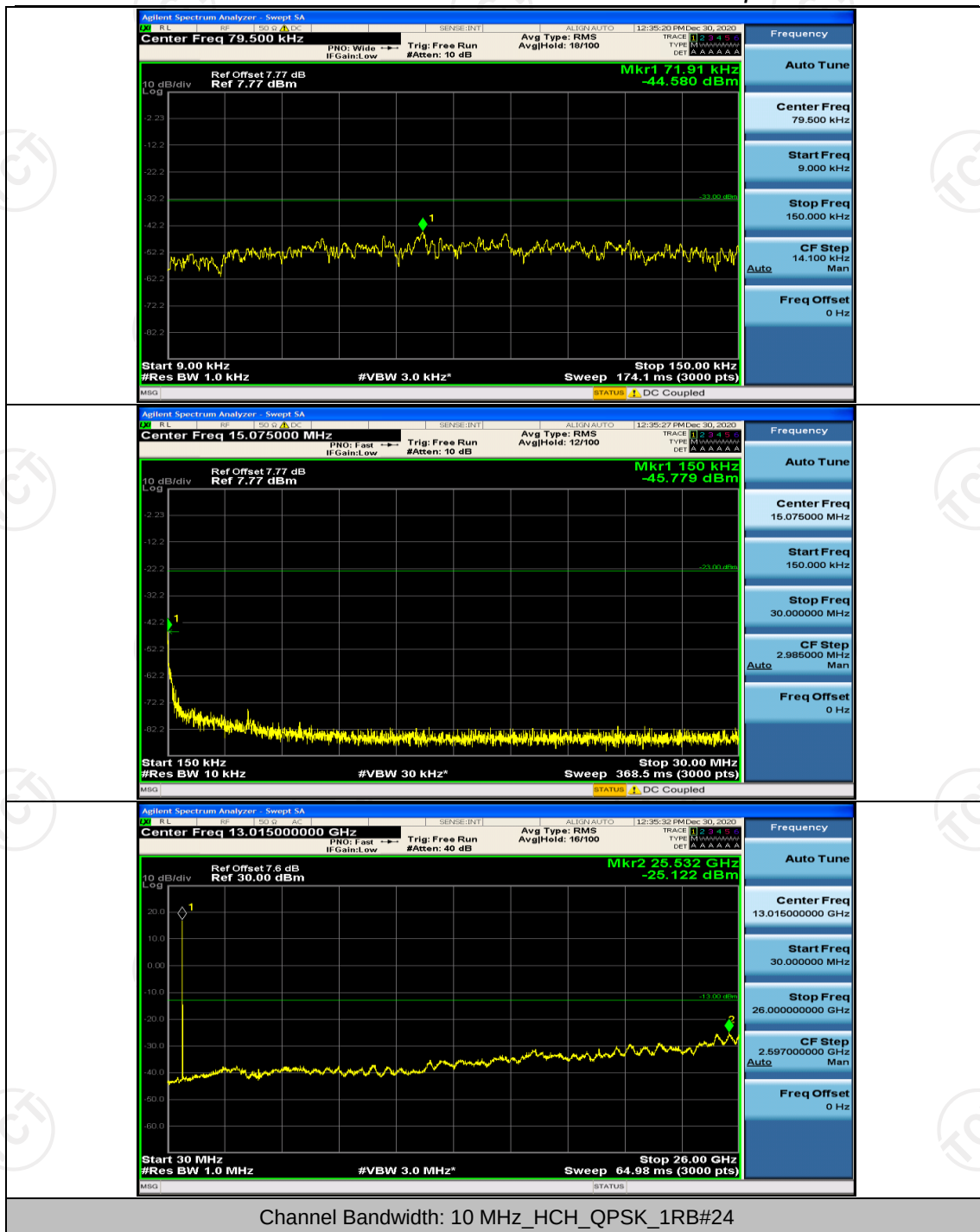
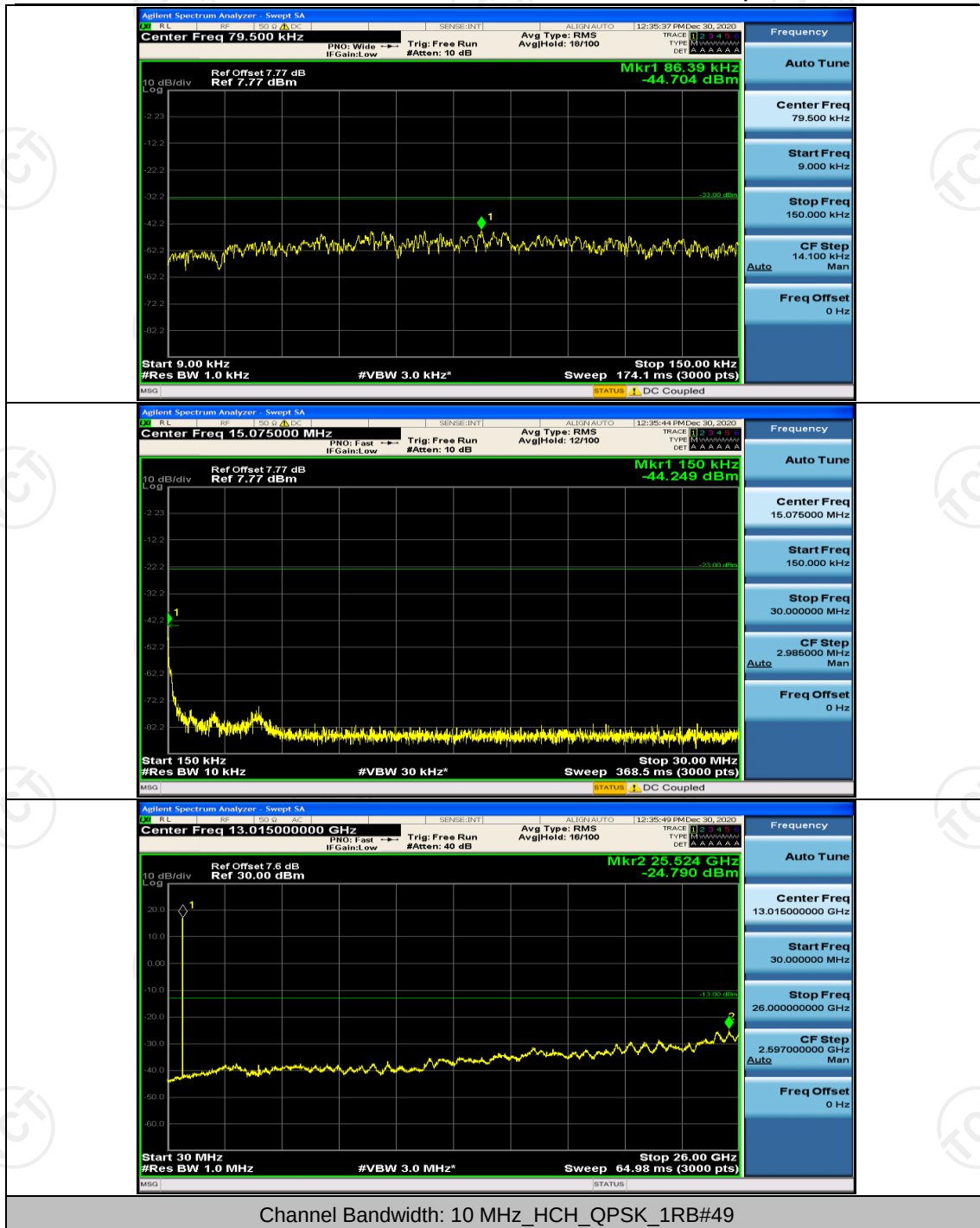
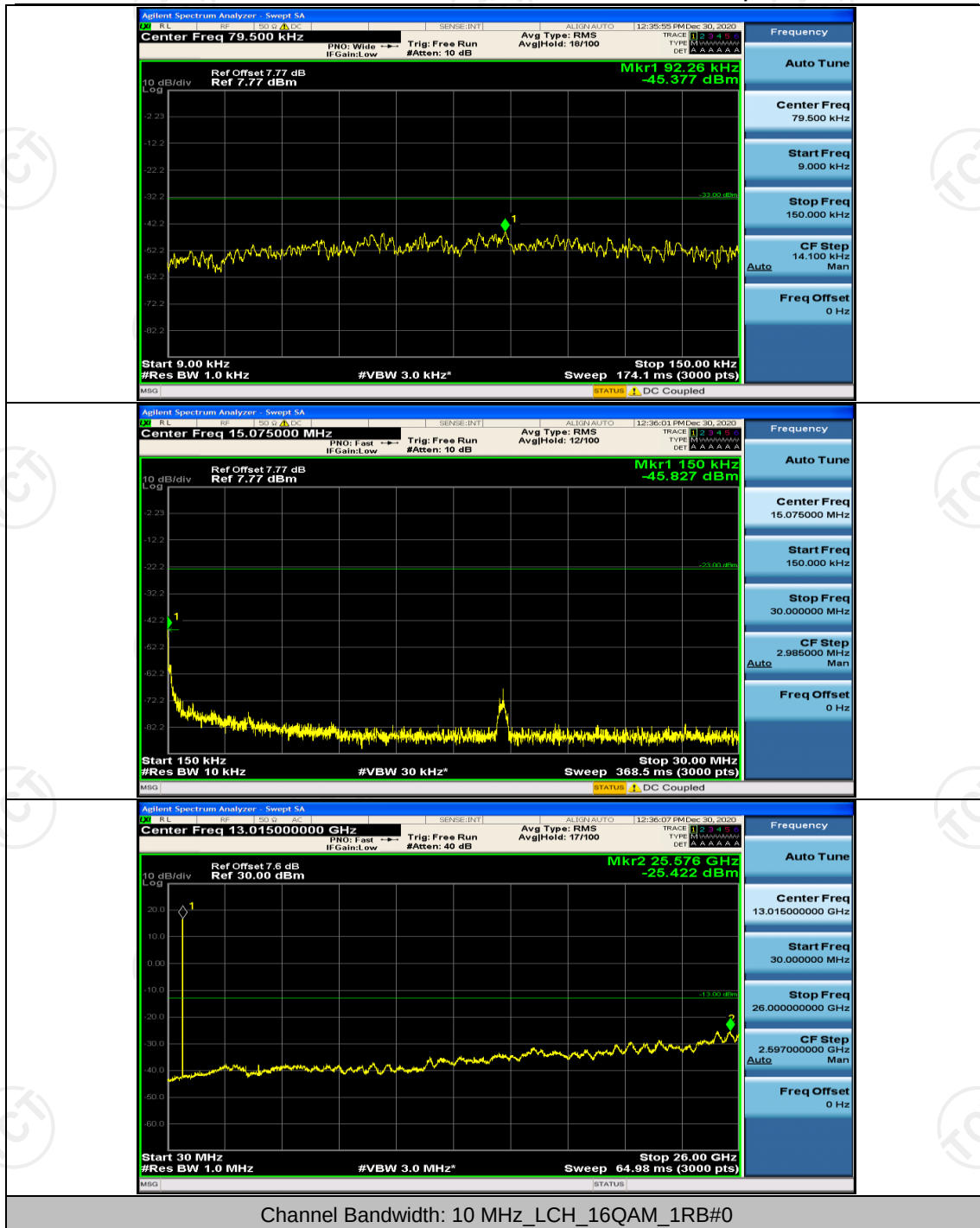
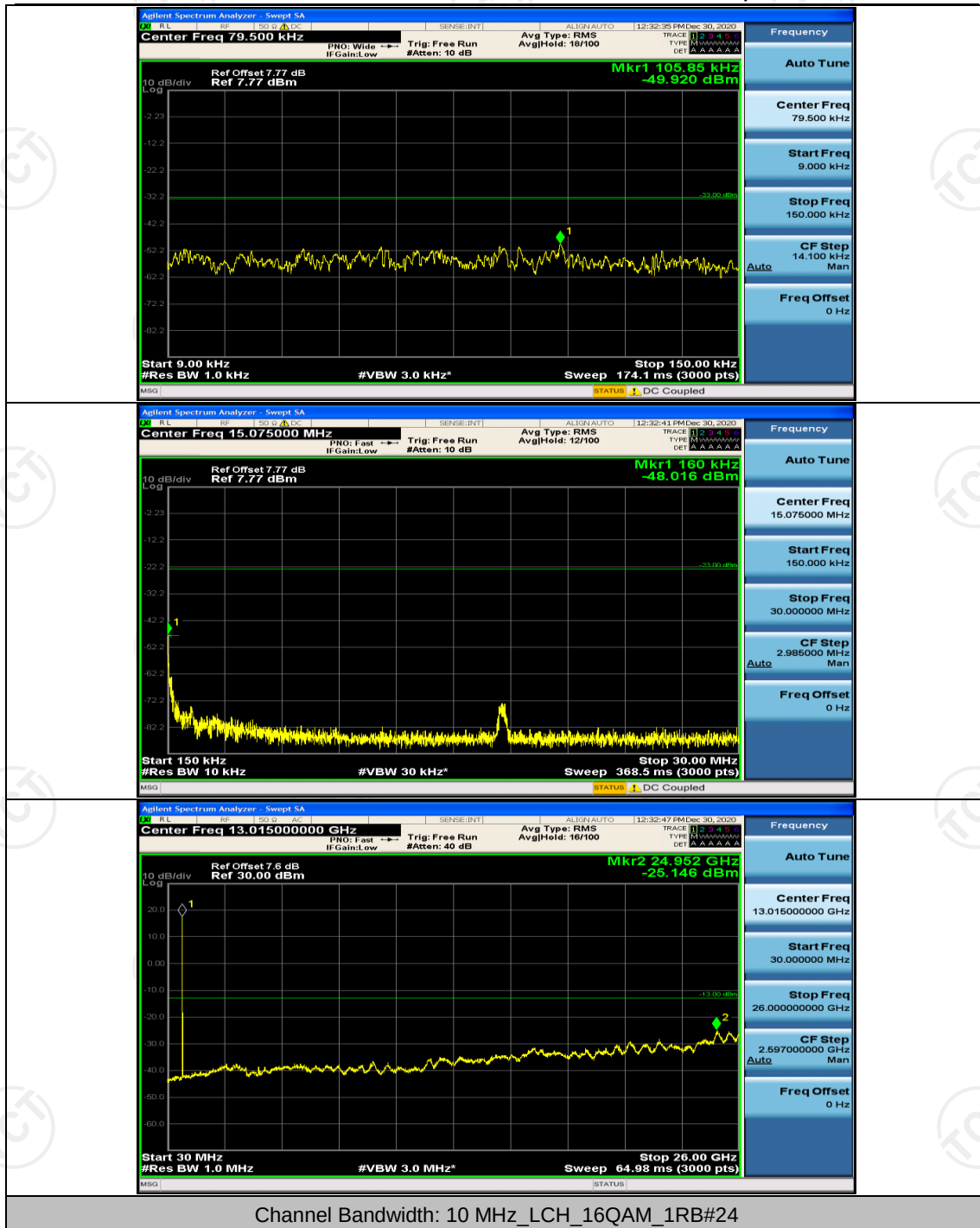


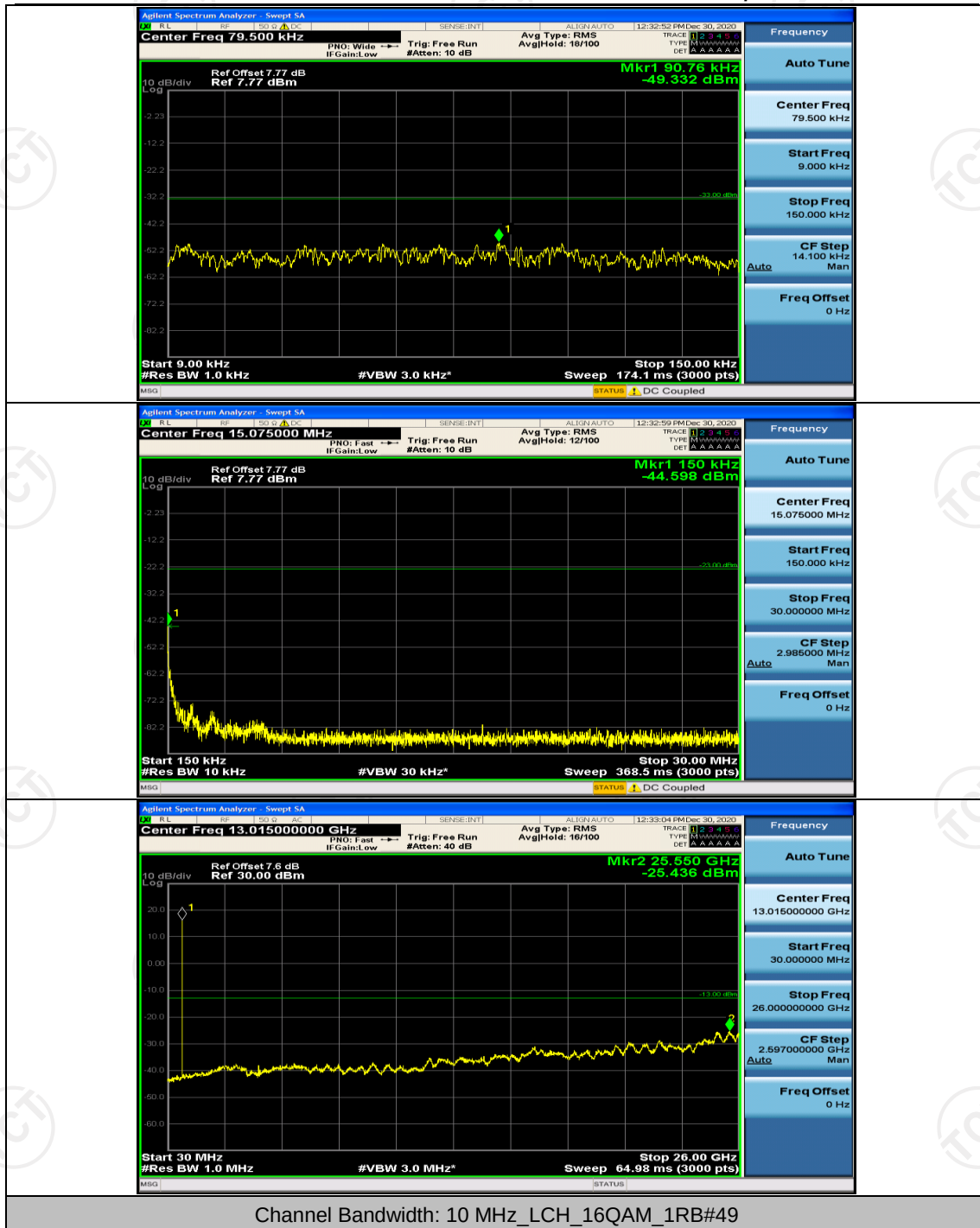


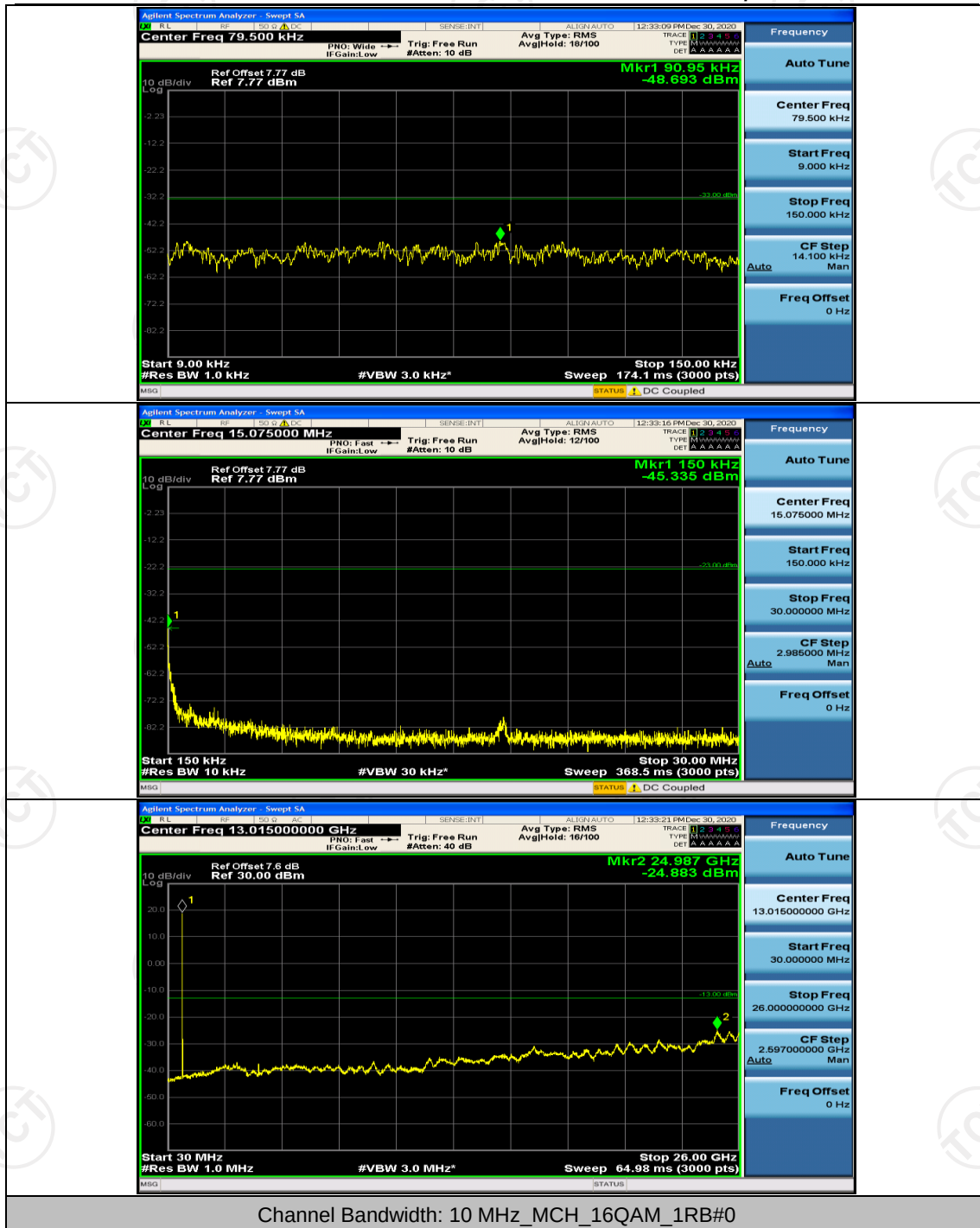


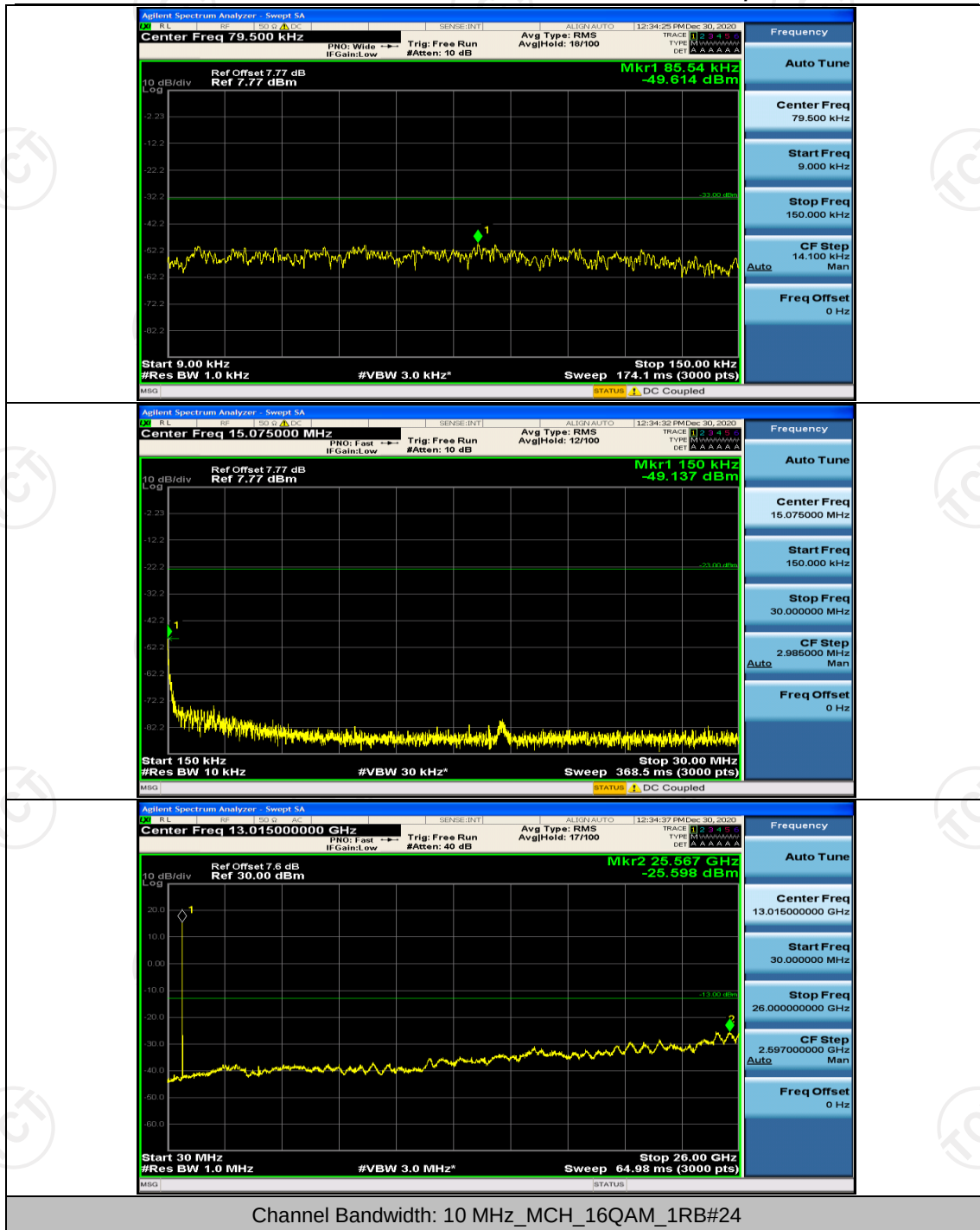


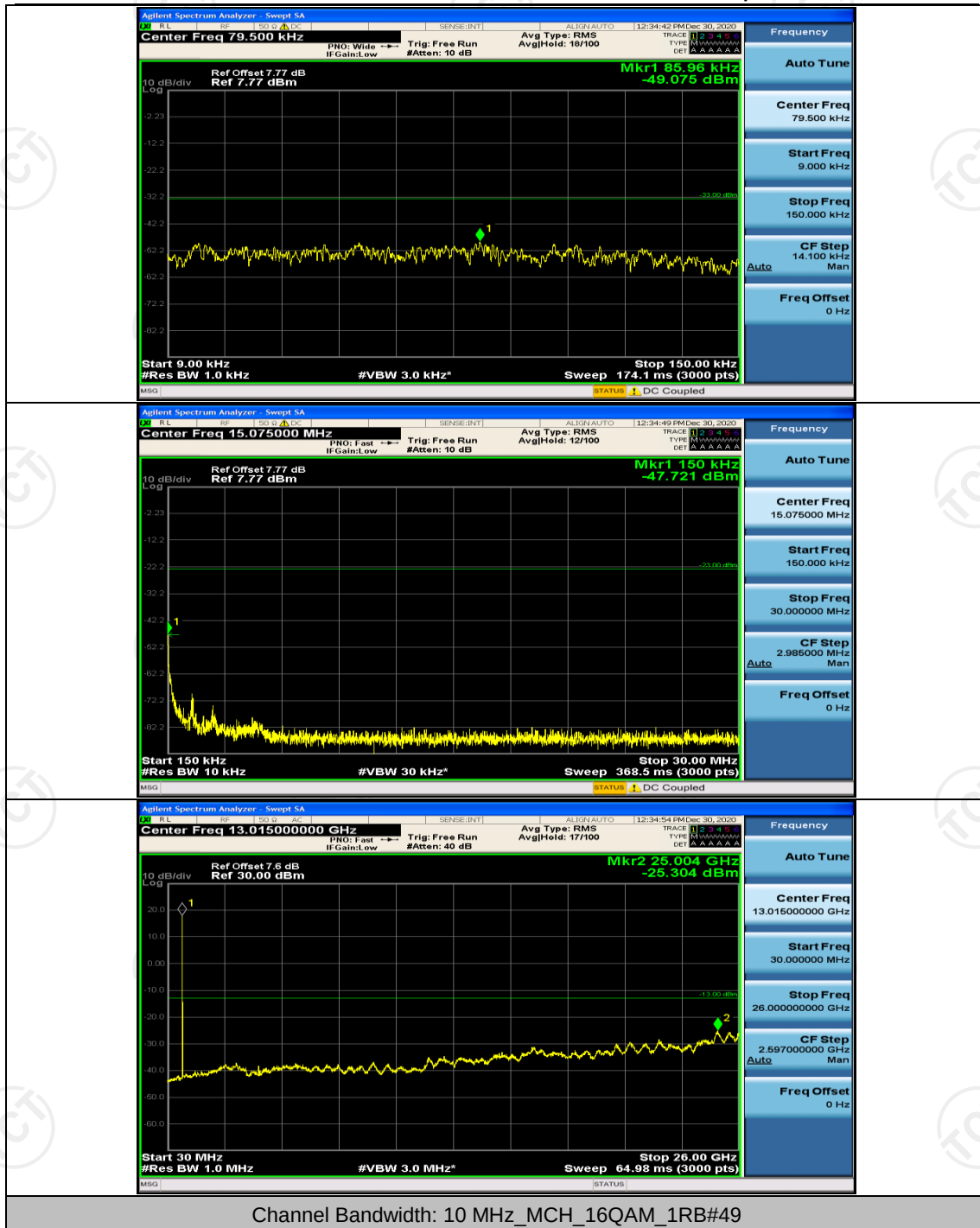


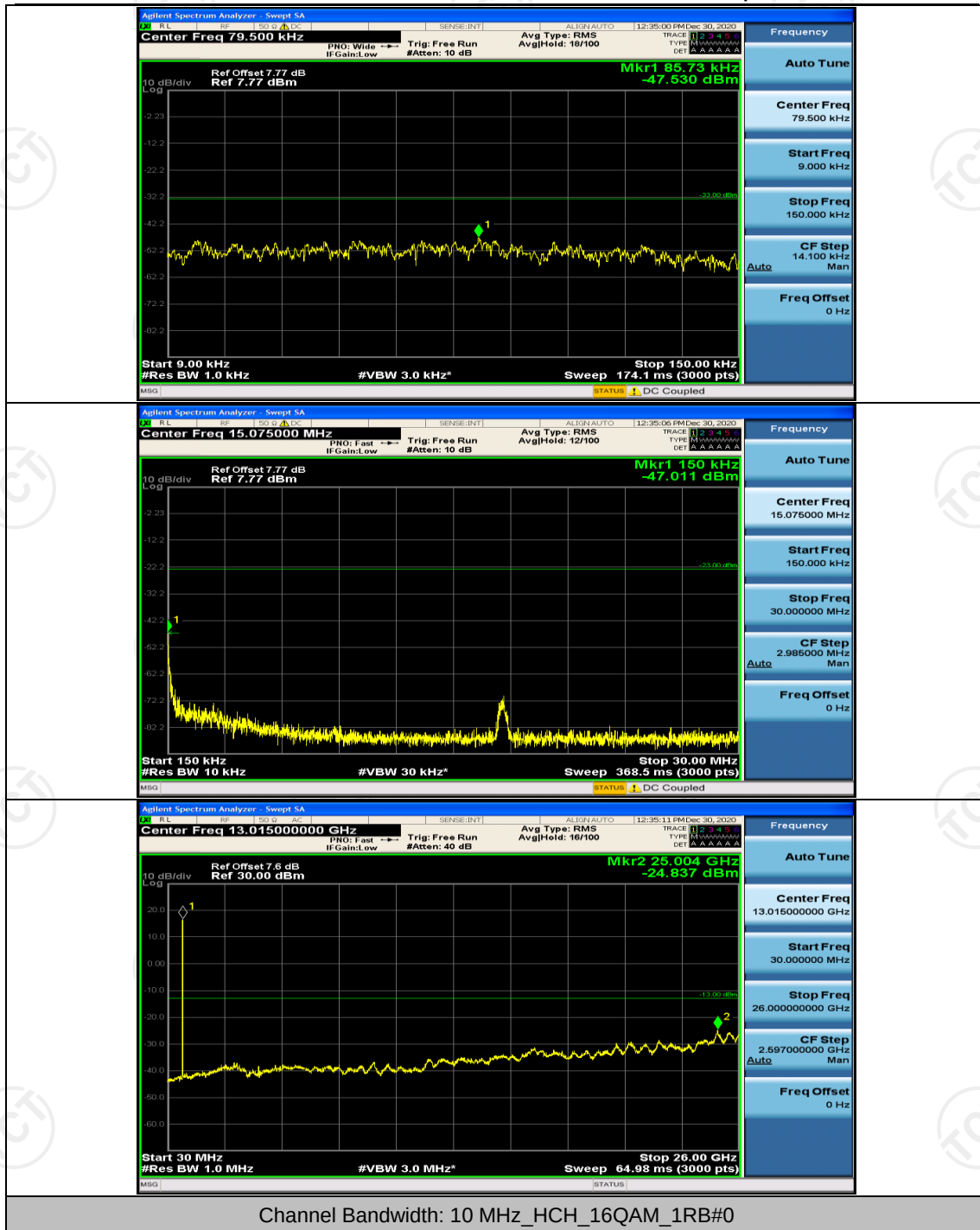


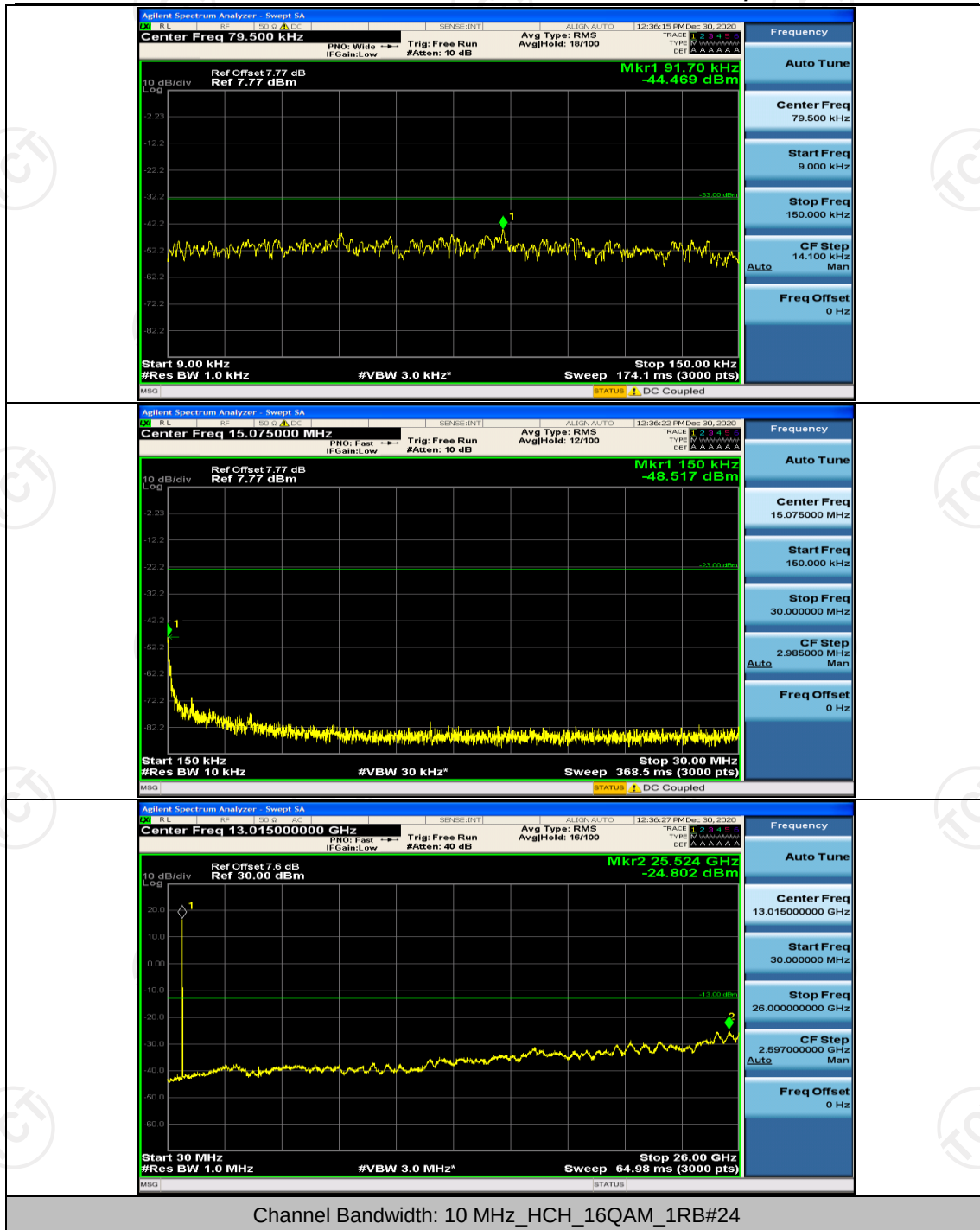


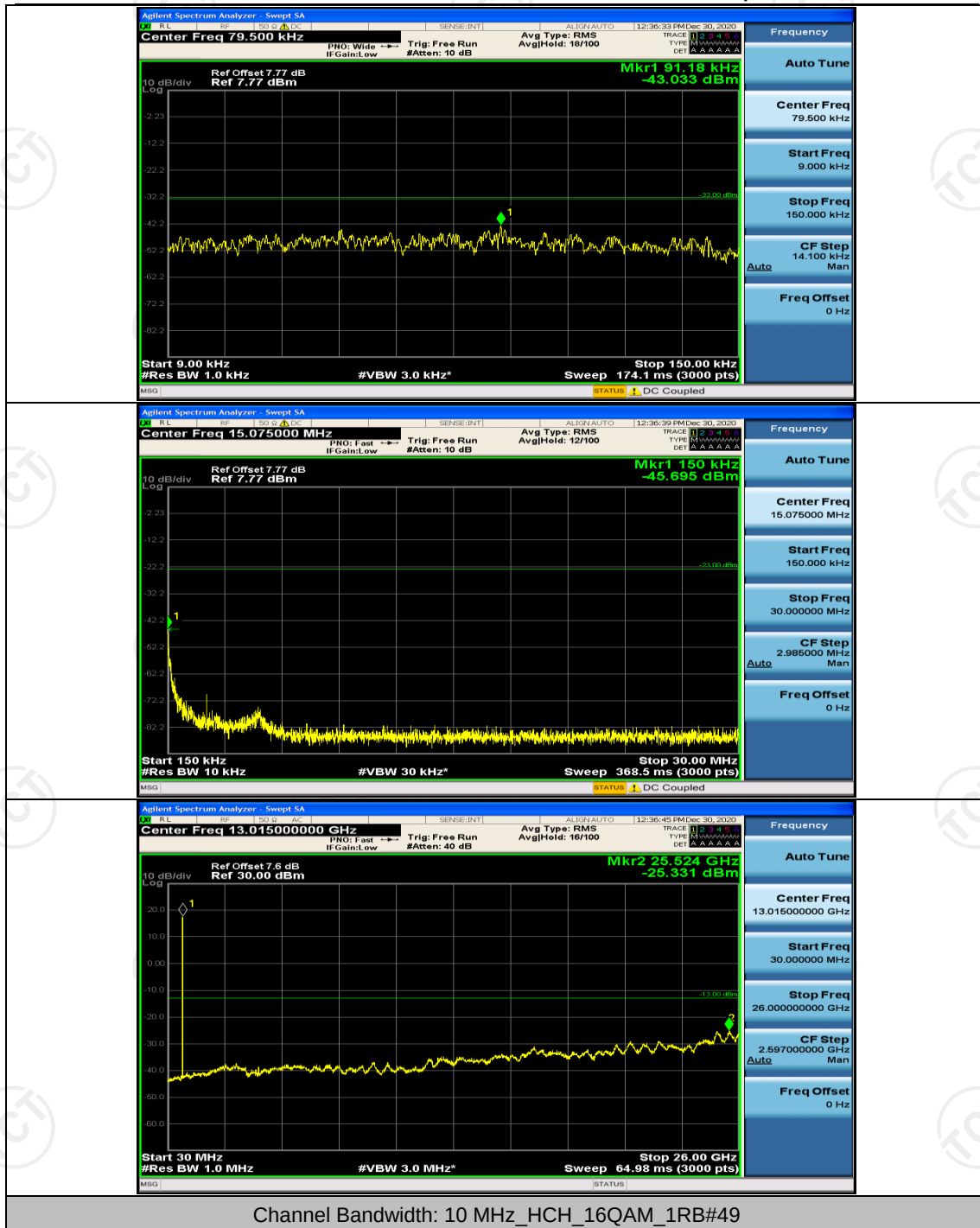


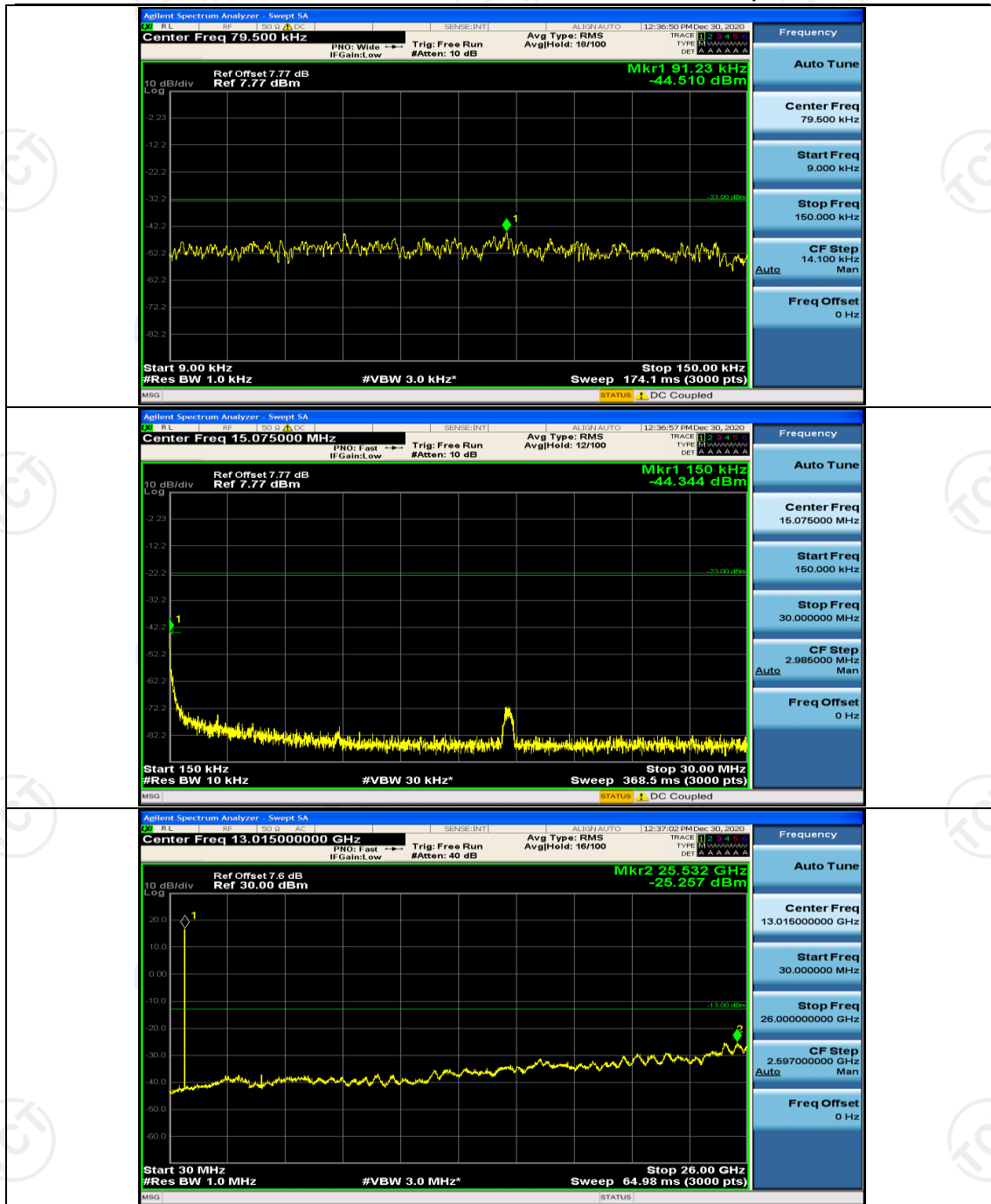












Appendix F: Frequency Stability

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	3.6	25	4.15	0.005814	± 2.5	PASS
		3.8	25	-39.18	-0.055998	± 2.5	PASS
		4.35	25	5.04	0.007117	± 2.5	PASS
	MCH	3.6	25	-16.31	-0.023247	± 2.5	PASS
		3.8	25	-14.73	-0.021004	± 2.5	PASS
		4.35	25	-11.73	-0.016722	± 2.5	PASS
	HCH	3.6	25	-13.13	-0.018720	± 2.5	PASS
		3.8	25	-20.97	-0.029318	± 2.5	PASS
		4.35	25	34.12	0.047817	± 2.5	PASS
16QAM	LCH	3.6	25	2.99	0.004184	± 2.5	PASS
		3.8	25	3.10	0.004345	± 2.5	PASS
		4.35	25	3.71	0.005185	± 2.5	PASS
	MCH	3.6	25	0.76	0.001061	± 2.5	PASS
		3.8	25	13.66	0.019309	± 2.5	PASS
		4.35	25	-15.52	-0.022126	± 2.5	PASS
	HCH	3.6	25	-21.86	-0.031159	± 2.5	PASS
		3.8	25	-30.00	-0.042762	± 2.5	PASS
		4.35	25	-37.28	-0.053142	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	3.8	-30	-7.10	-0.010029	± 2.5	PASS
		3.8	-20	41.76	0.059610	± 2.5	PASS
		3.8	-10	39.77	0.056771	± 2.5	PASS
		3.8	0	39.21	0.055975	± 2.5	PASS
		3.8	10	36.02	0.051421	± 2.5	PASS
		3.8	20	-29.20	-0.041728	± 2.5	PASS
		3.8	30	-16.78	-0.023982	± 2.5	PASS
		3.8	40	-3.59	-0.005132	± 2.5	PASS
		3.8	50	11.24	0.016069	± 2.5	PASS
	MCH	3.8	-30	-4.12	-0.005823	± 2.5	PASS
		3.8	-20	-10.33	-0.014723	± 2.5	PASS
		3.8	-10	13.69	0.019187	± 2.5	PASS
		3.8	0	25.26	0.035407	± 2.5	PASS
		3.8	10	36.35	0.050945	± 2.5	PASS

		3.8	20	-0.06	-0.000080	± 2.5	PASS
		3.8	30	-35.83	-0.050649	± 2.5	PASS
		3.8	40	-27.52	-0.038902	± 2.5	PASS
		3.8	50	-18.21	-0.025739	± 2.5	PASS
	HCH	3.8	-30	-13.32	-0.018985	± 2.5	PASS
		3.8	-20	0.59	0.000829	± 2.5	PASS
		3.8	-10	-0.90	-0.001274	± 2.5	PASS
		3.8	0	-3.55	-0.005014	± 2.5	PASS
		3.8	10	-6.92	-0.009786	± 2.5	PASS
		3.8	20	-25.52	-0.035678	± 2.5	PASS
		3.8	30	-17.28	-0.024159	± 2.5	PASS
		3.8	40	-10.24	-0.014319	± 2.5	PASS
		3.8	50	5.22	0.007300	± 2.5	PASS
16QAM	LCH	3.8	-30	0.13	0.000180	± 2.5	PASS
		3.8	-20	21.63	0.030272	± 2.5	PASS
		3.8	-10	34.69	0.048551	± 2.5	PASS
		3.8	0	46.73	0.065409	± 2.5	PASS
		3.8	10	14.85	0.020782	± 2.5	PASS
		3.8	20	4.38	0.006256	± 2.5	PASS
		3.8	30	8.25	0.011797	± 2.5	PASS
		3.8	40	11.32	0.016172	± 2.5	PASS
		3.8	50	9.63	0.013759	± 2.5	PASS
	MCH	3.8	-30	41.50	0.059242	± 2.5	PASS
		3.8	-20	12.43	0.017746	± 2.5	PASS
		3.8	-10	16.89	0.024118	± 2.5	PASS
		3.8	0	22.72	0.032429	± 2.5	PASS
		3.8	10	25.43	0.036309	± 2.5	PASS
		3.8	20	19.63	0.027741	± 2.5	PASS
		3.8	30	22.90	0.032371	± 2.5	PASS
		3.8	40	28.20	0.039852	± 2.5	PASS
		3.8	50	30.30	0.042824	± 2.5	PASS
	HCH	3.8	-30	10.31	0.014435	± 2.5	PASS
		3.8	-20	-5.08	-0.007178	± 2.5	PASS
		3.8	-10	-3.73	-0.005277	± 2.5	PASS
		3.8	0	-2.83	-0.004003	± 2.5	PASS
		3.8	10	-1.92	-0.002709	± 2.5	PASS
		3.8	20	10.99	0.015359	± 2.5	PASS
		3.8	30	18.05	0.025238	± 2.5	PASS
		3.8	40	24.82	0.034698	± 2.5	PASS
		3.8	50	28.44	0.039758	± 2.5	PASS