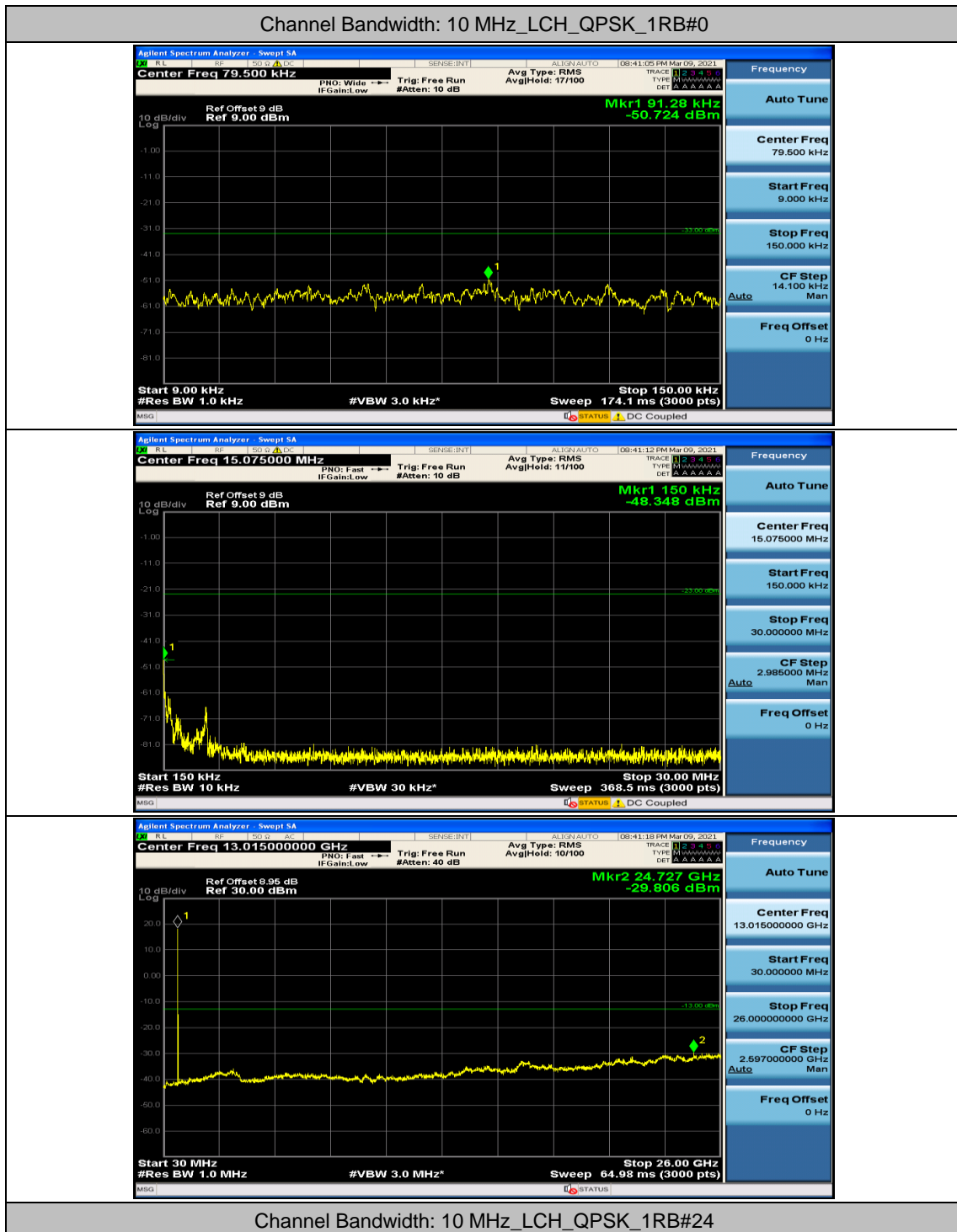
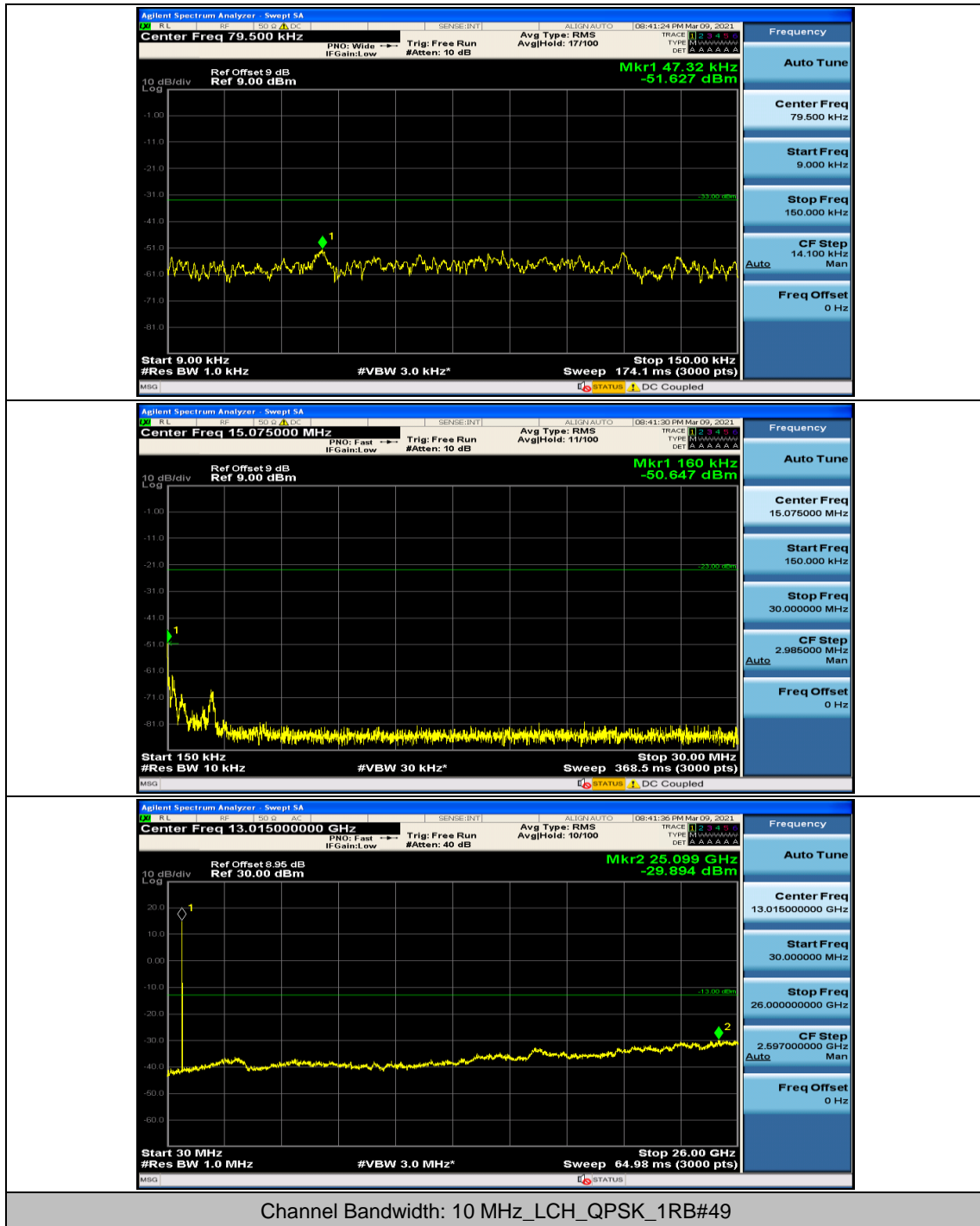
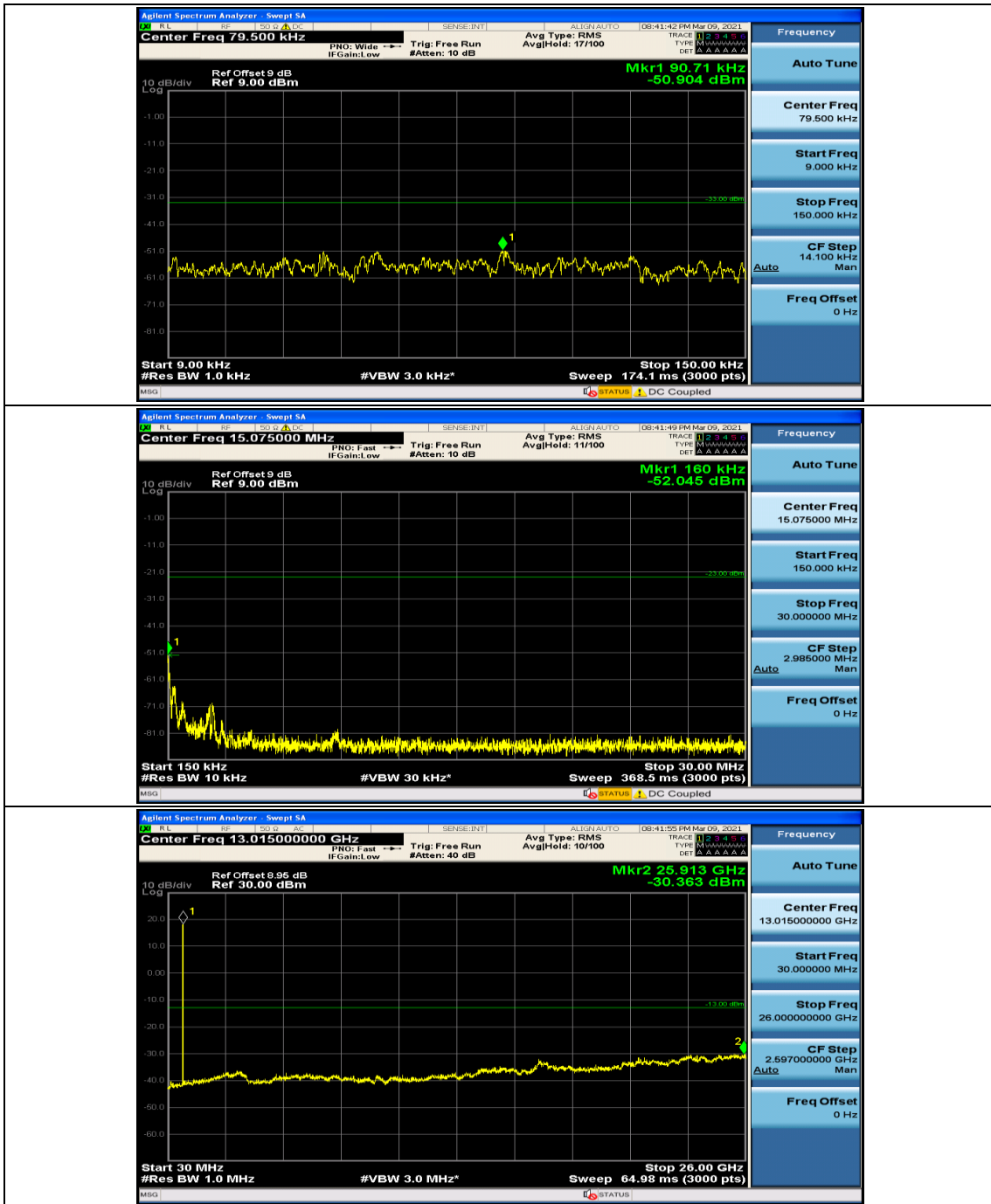
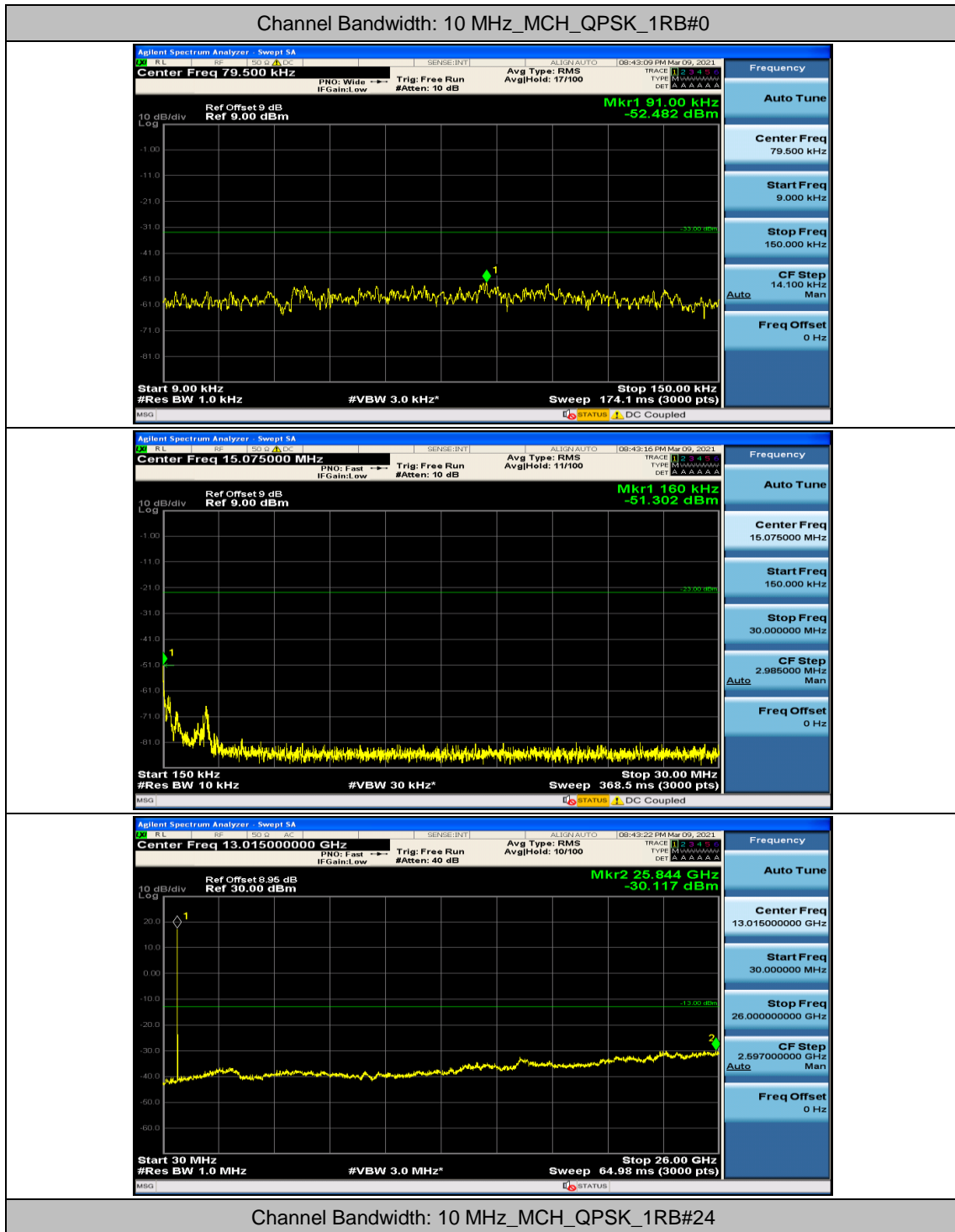


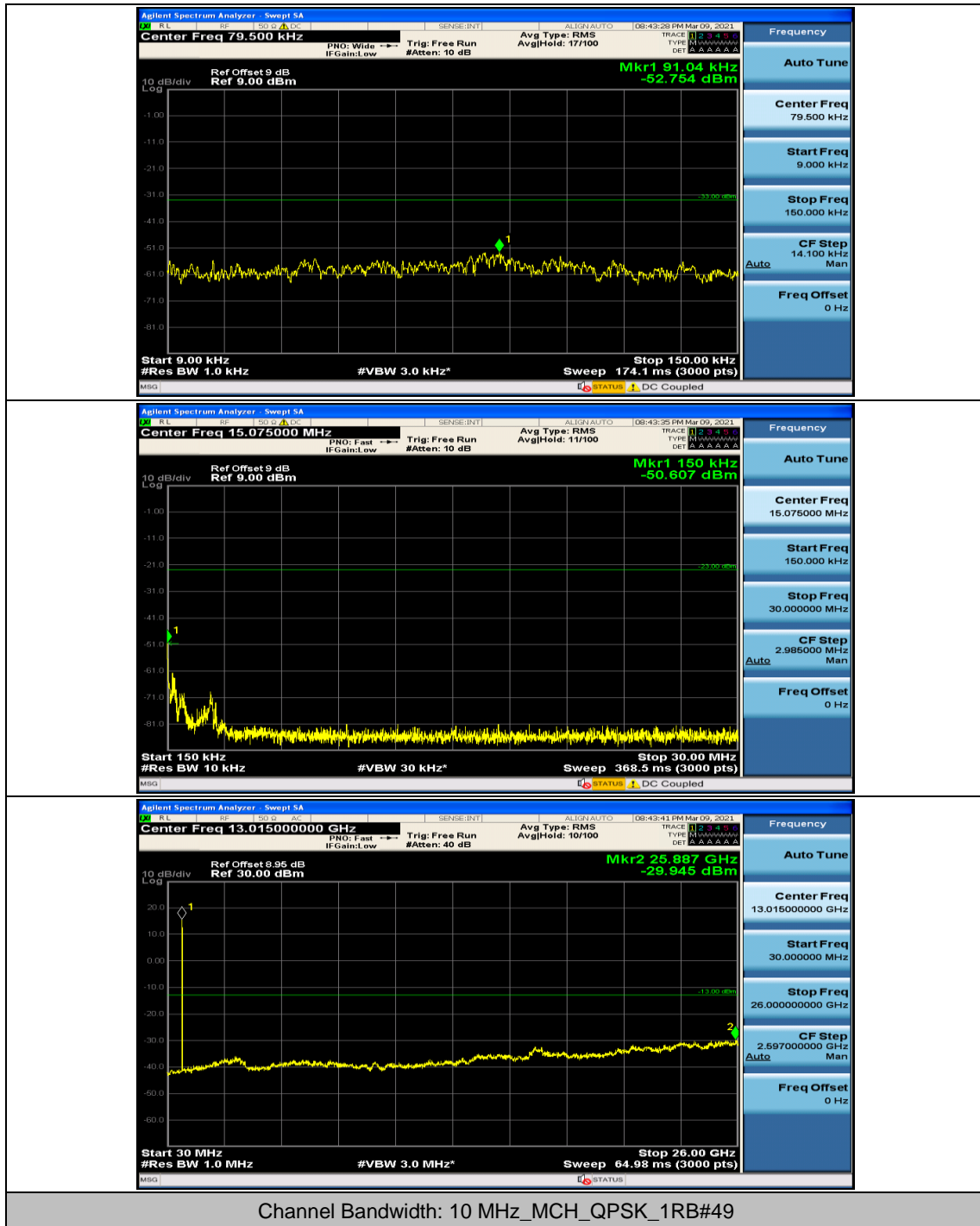
Channel Bandwidth: 10 MHz

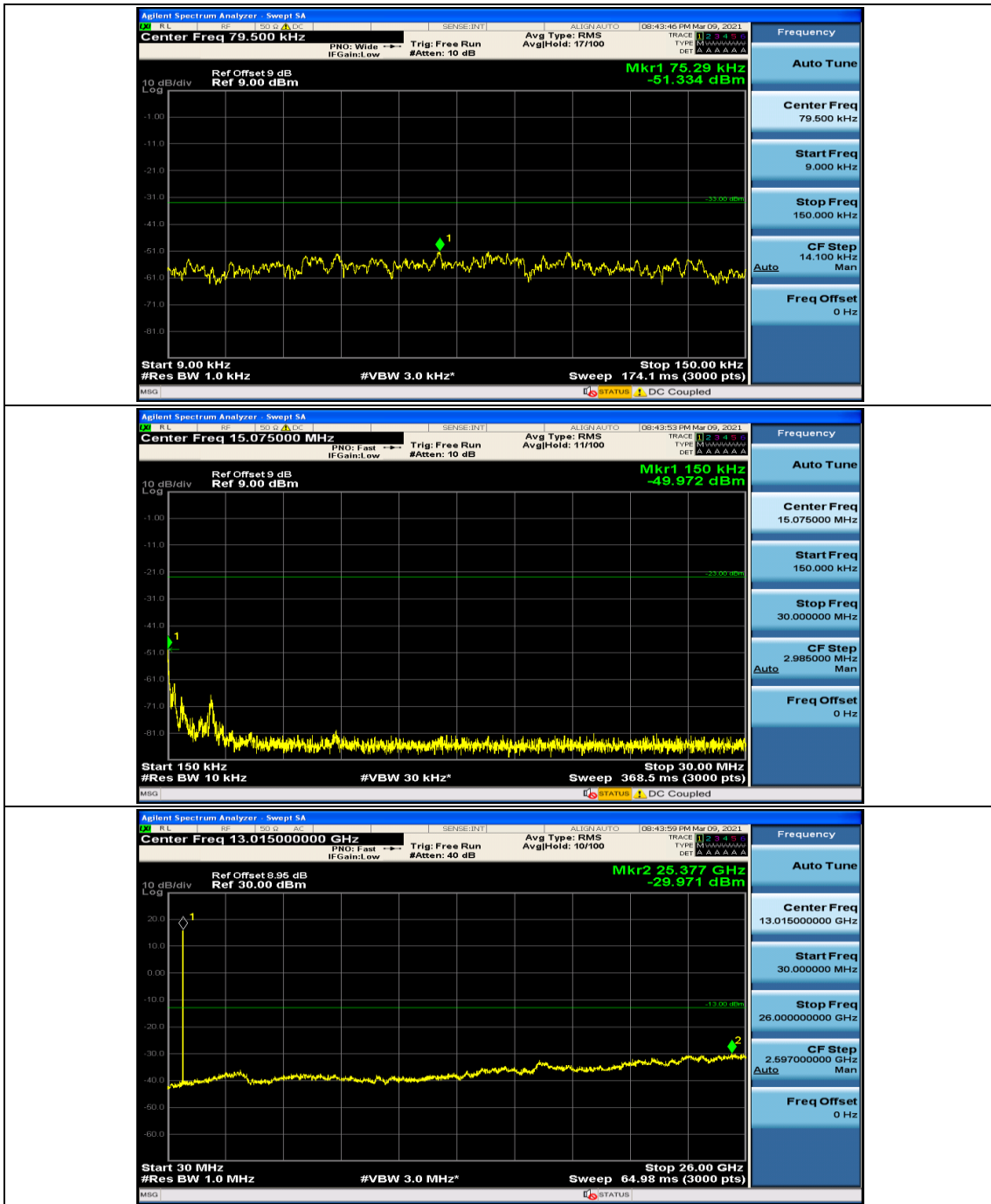


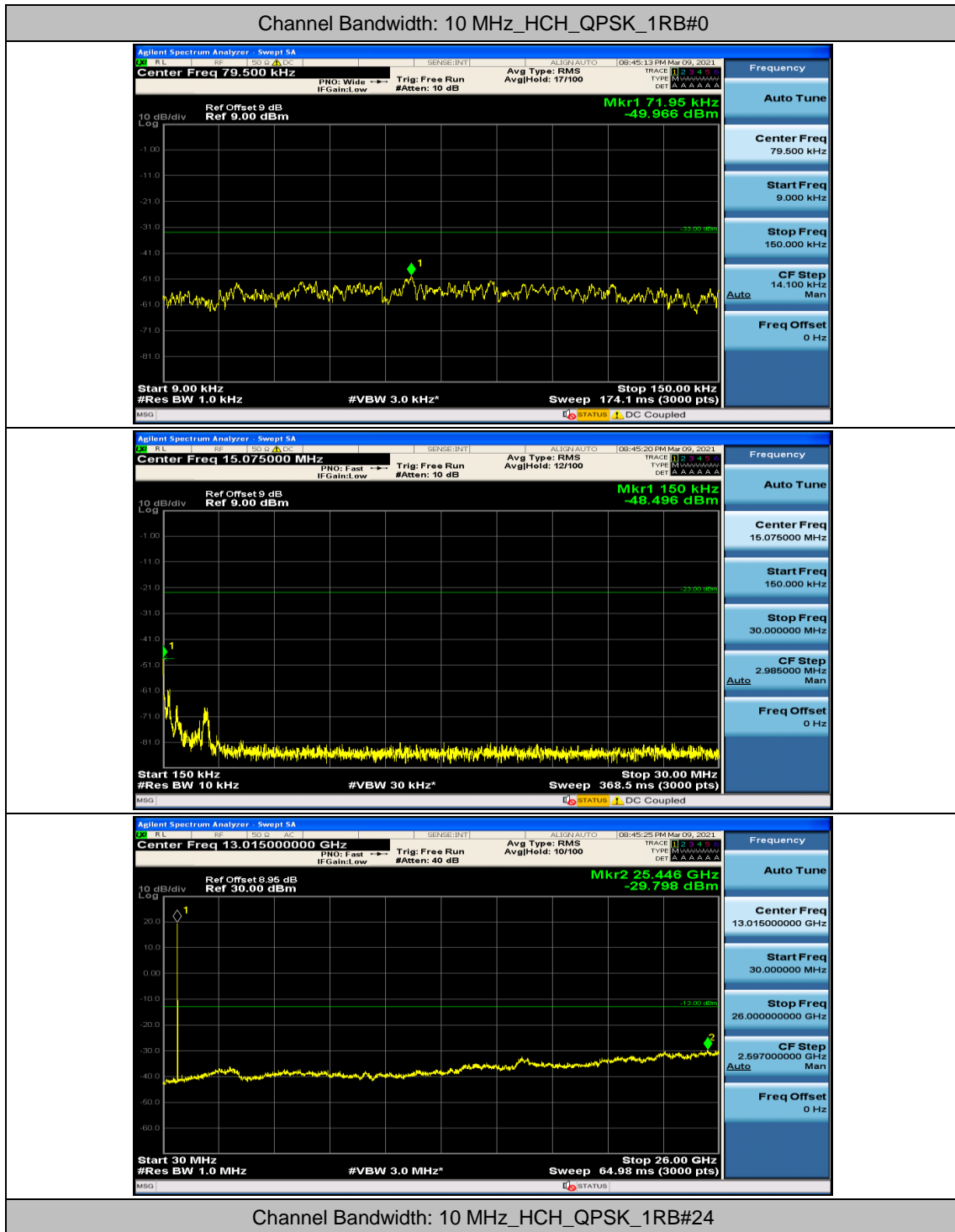


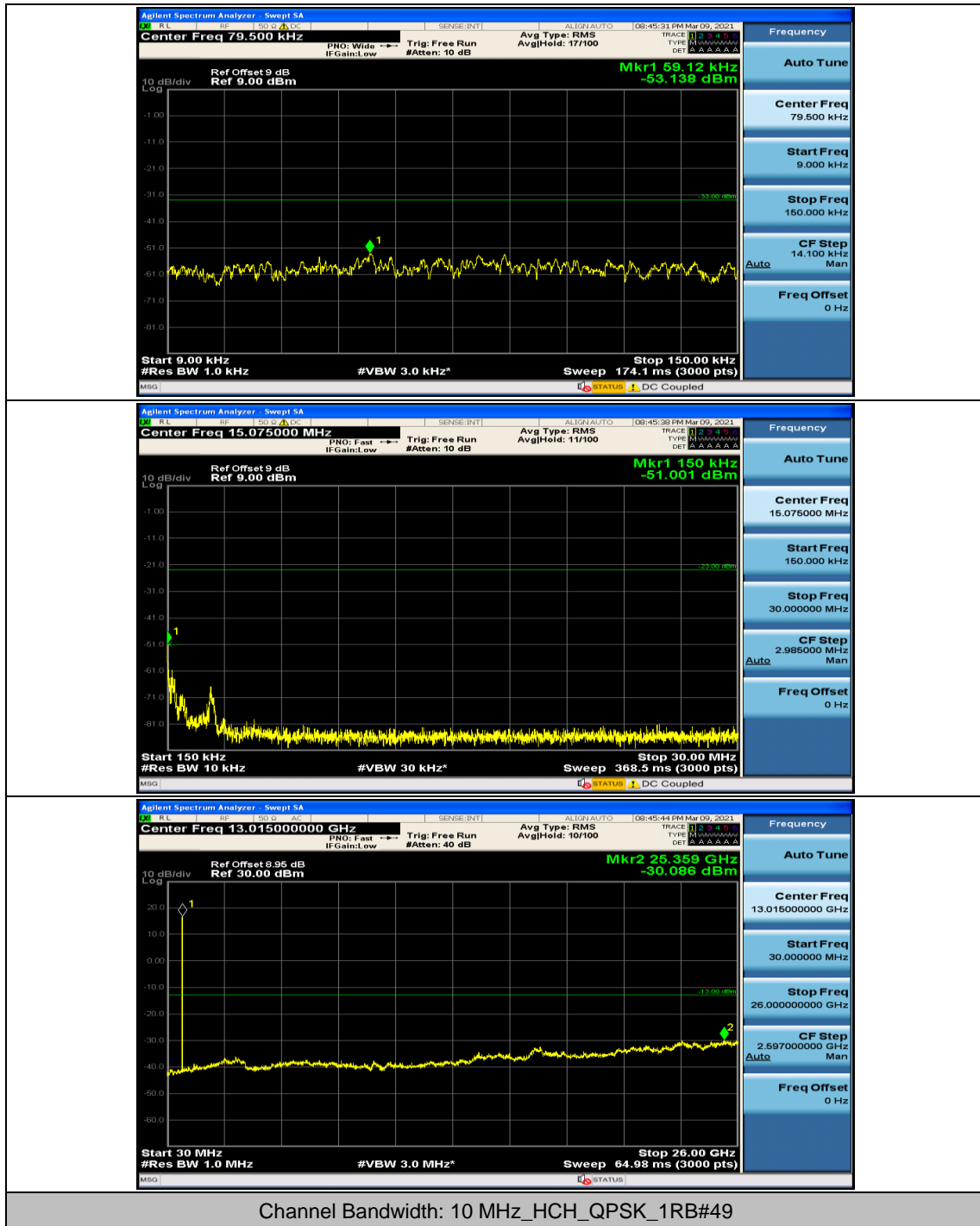


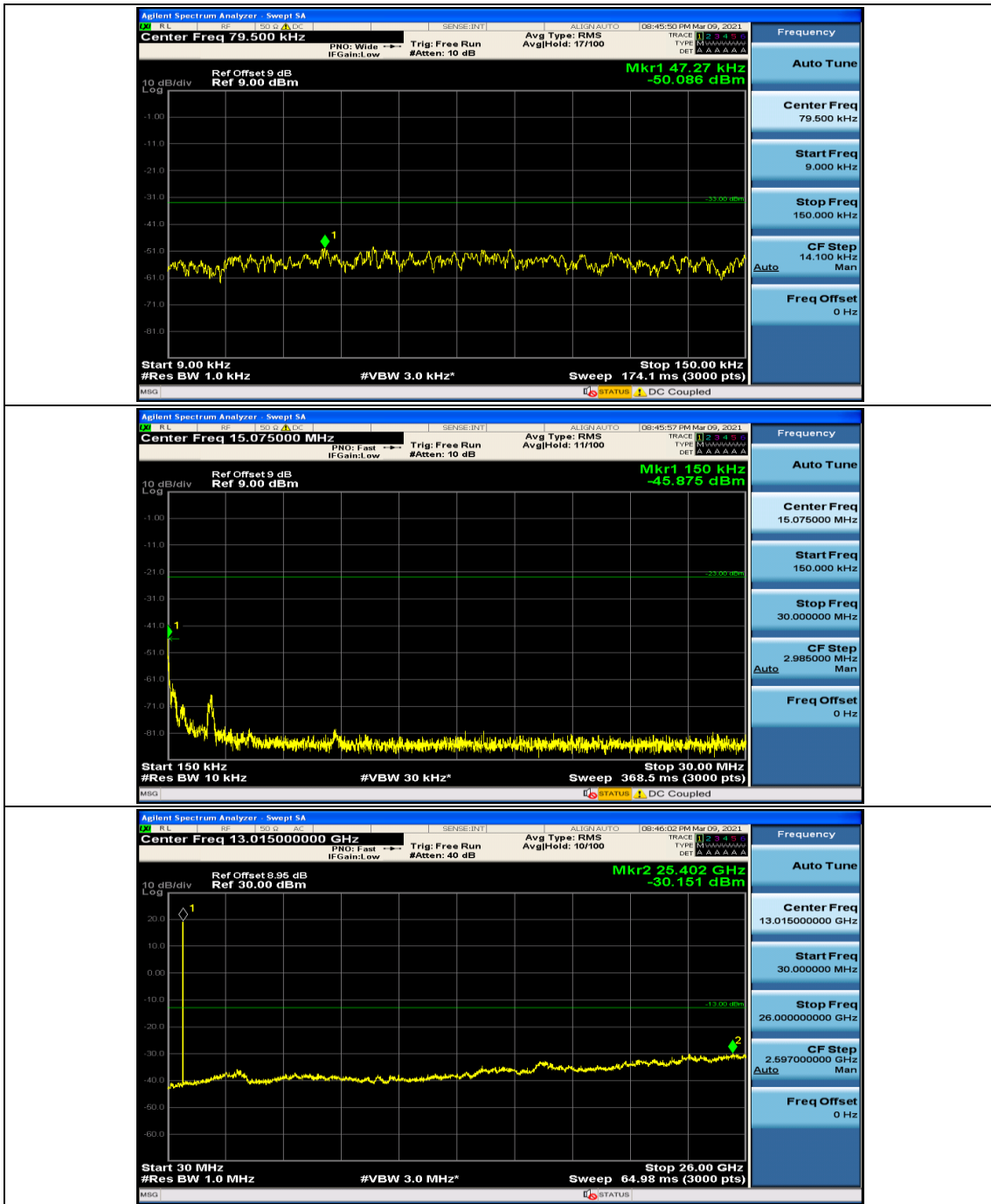


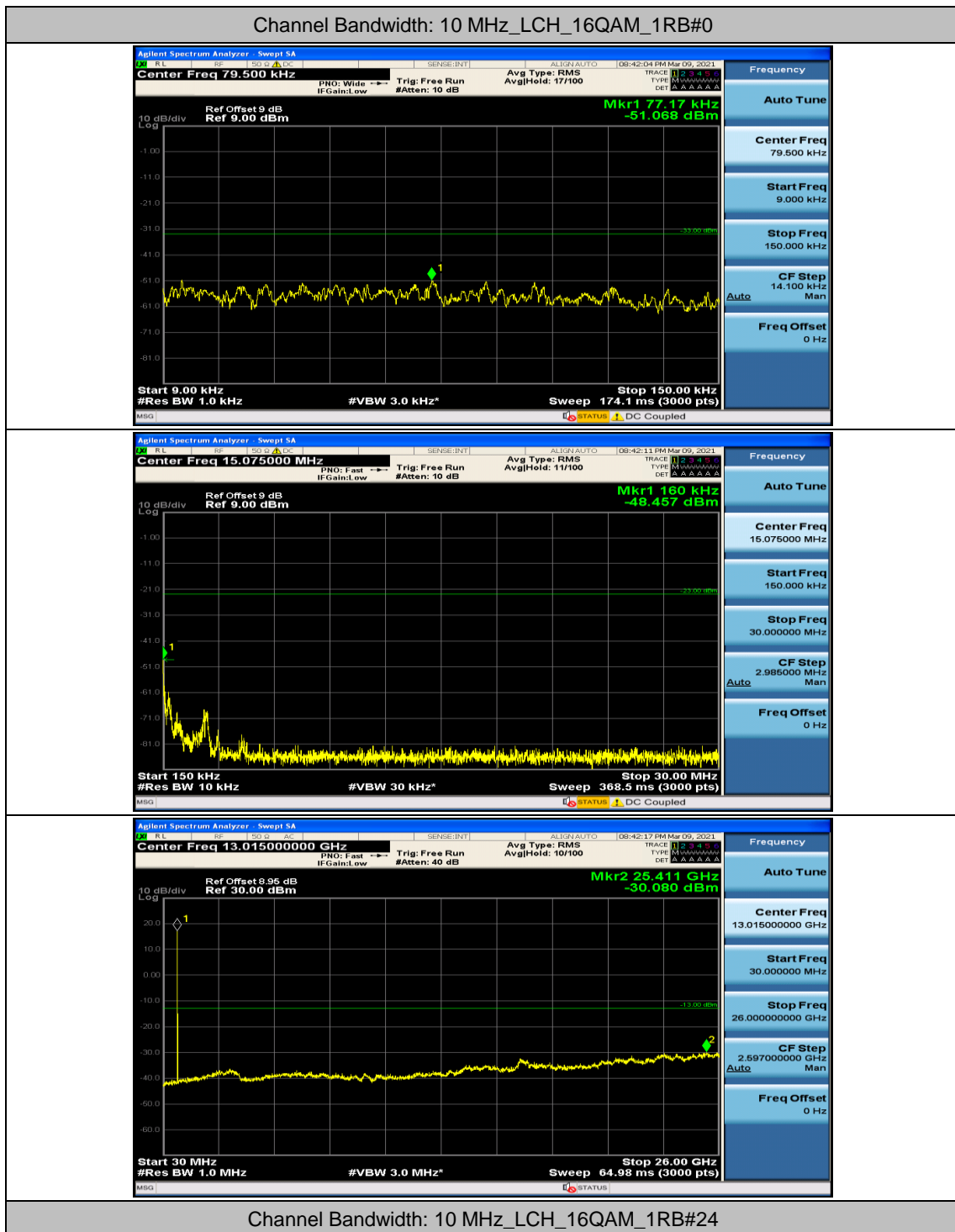


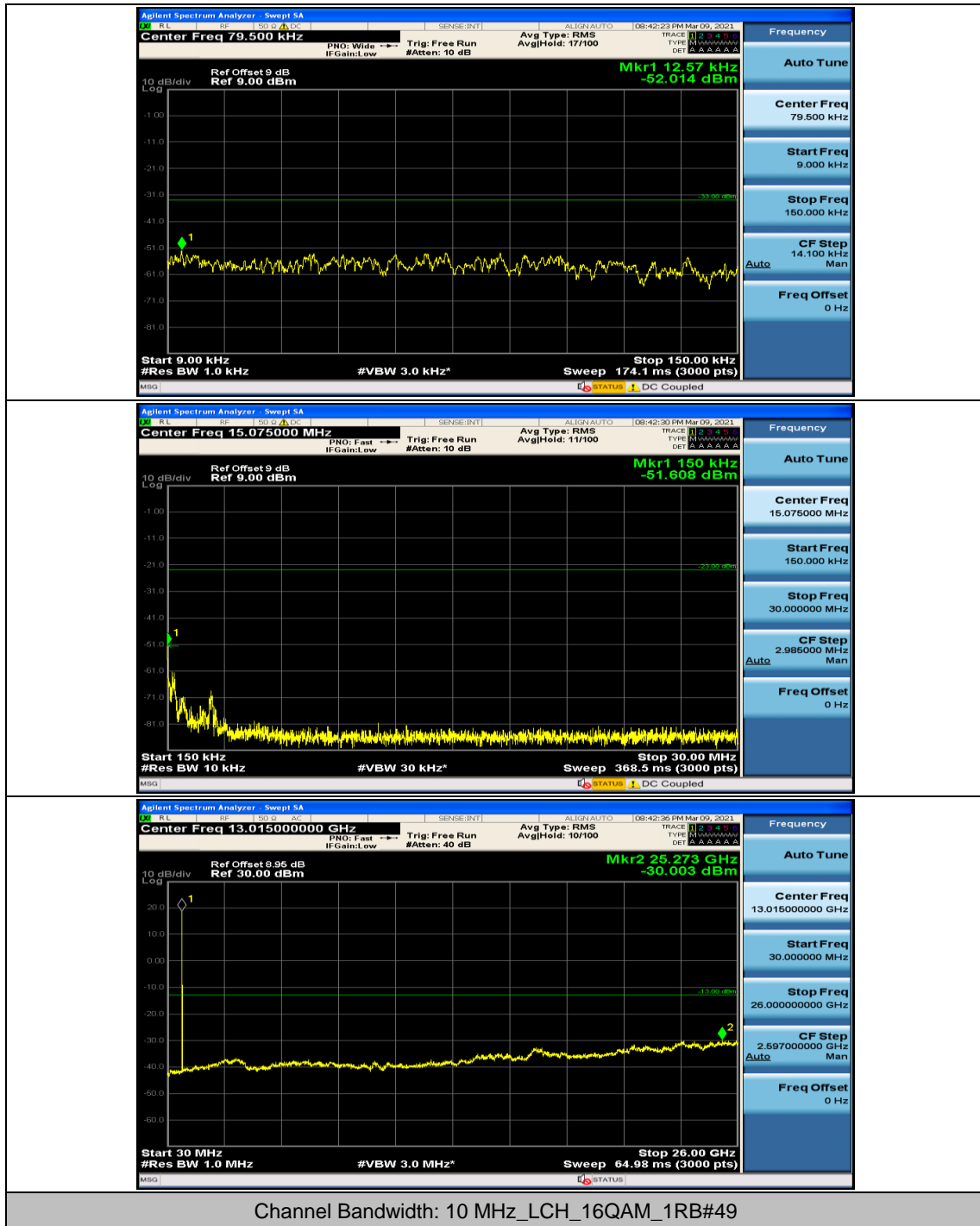


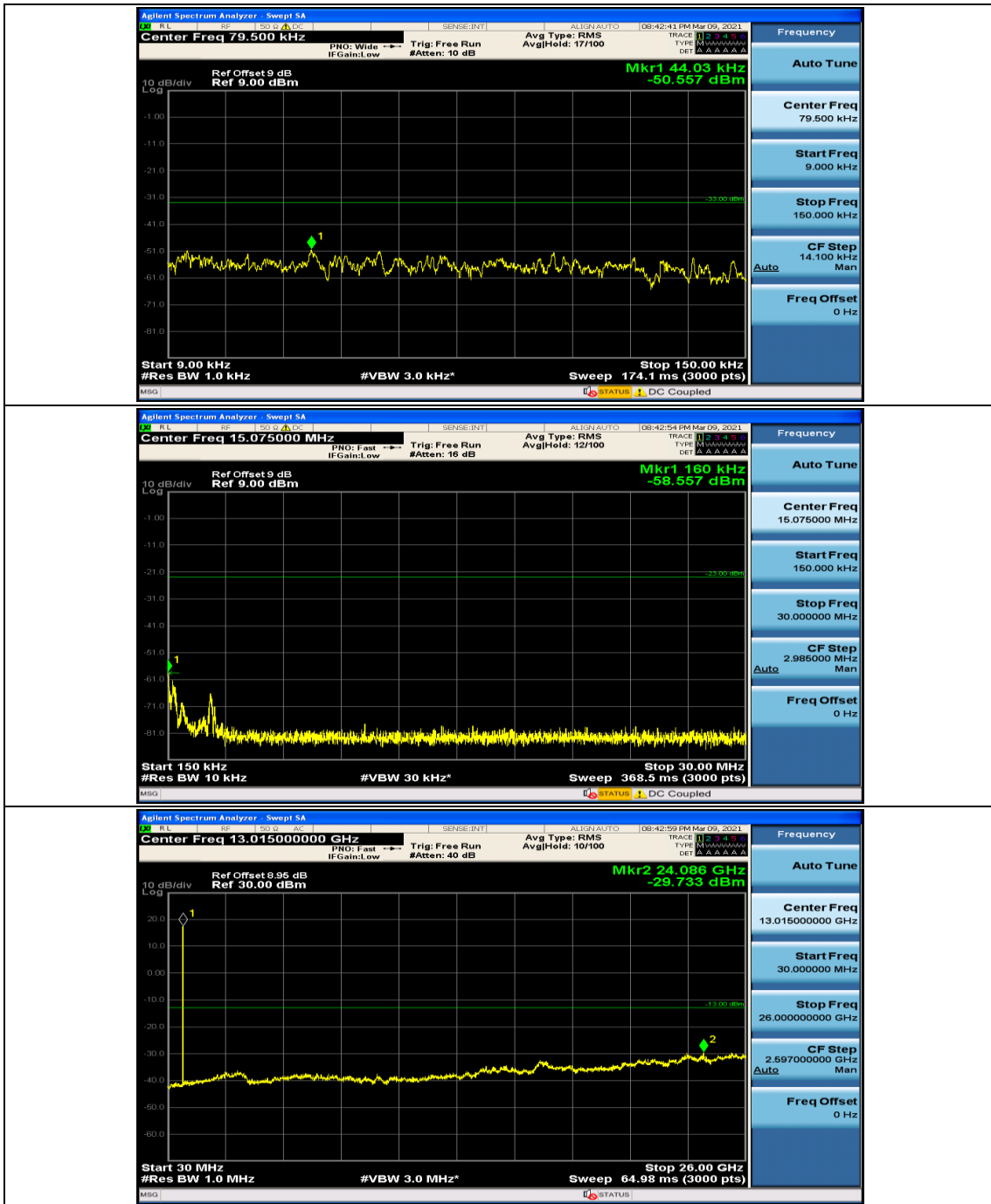


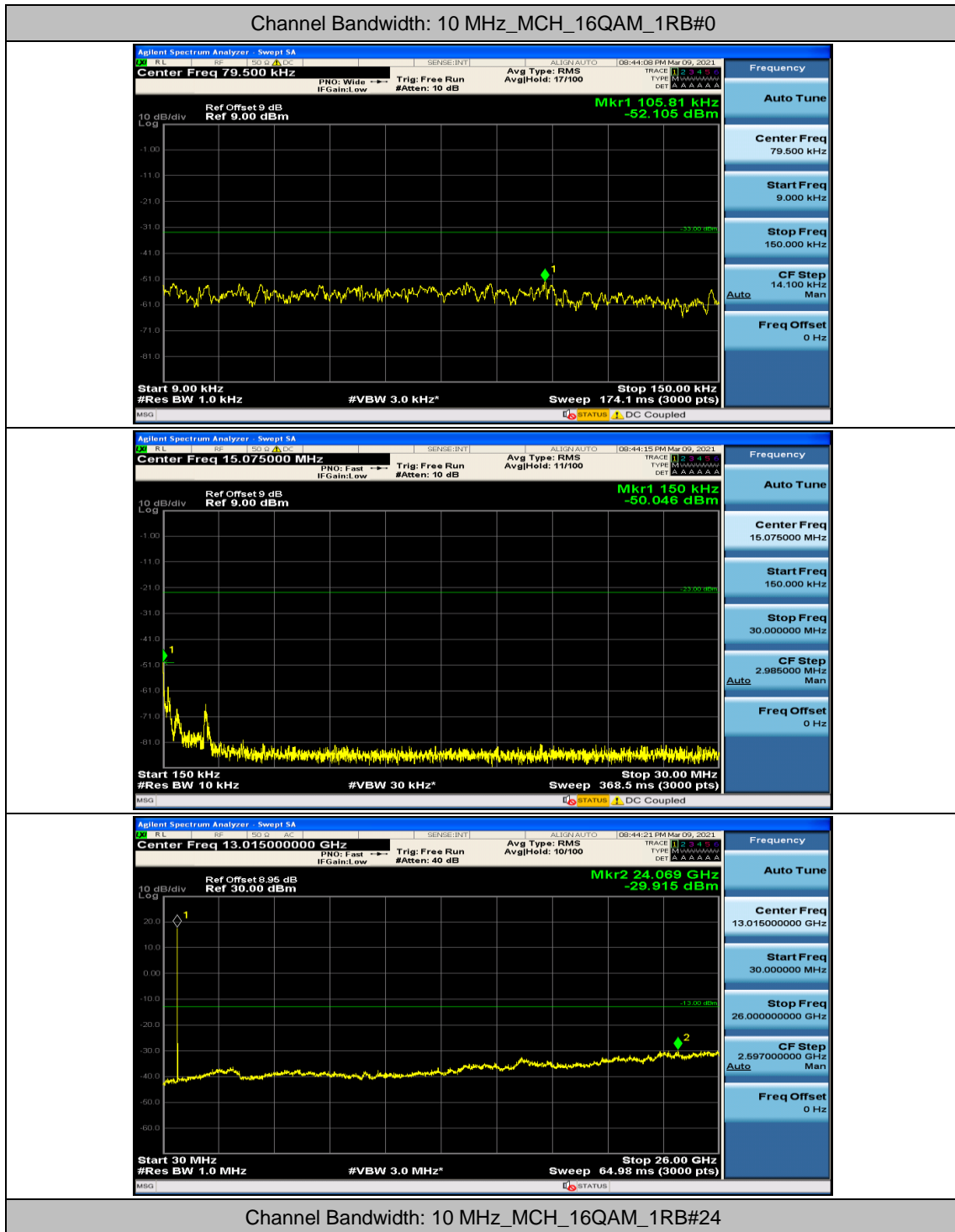


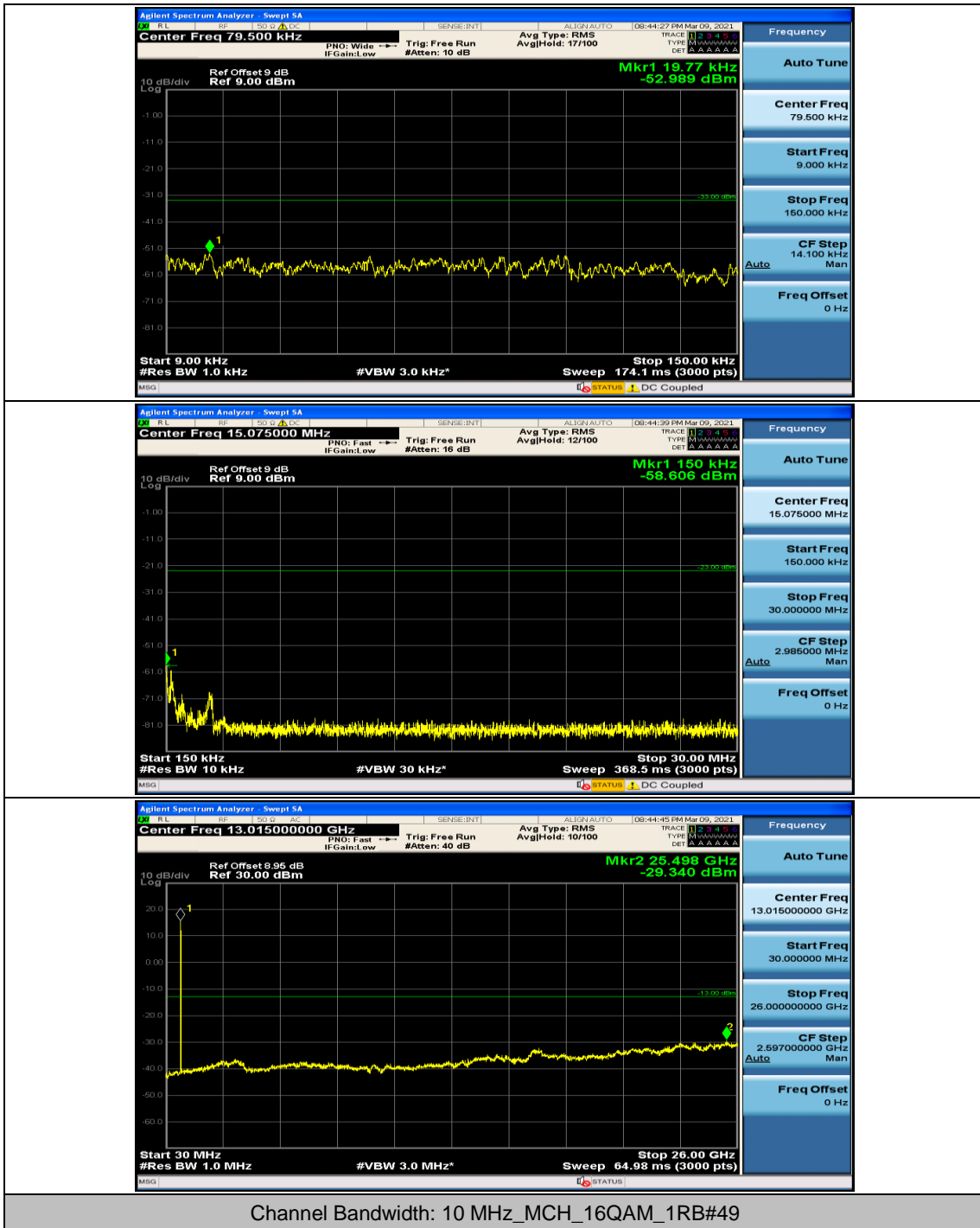


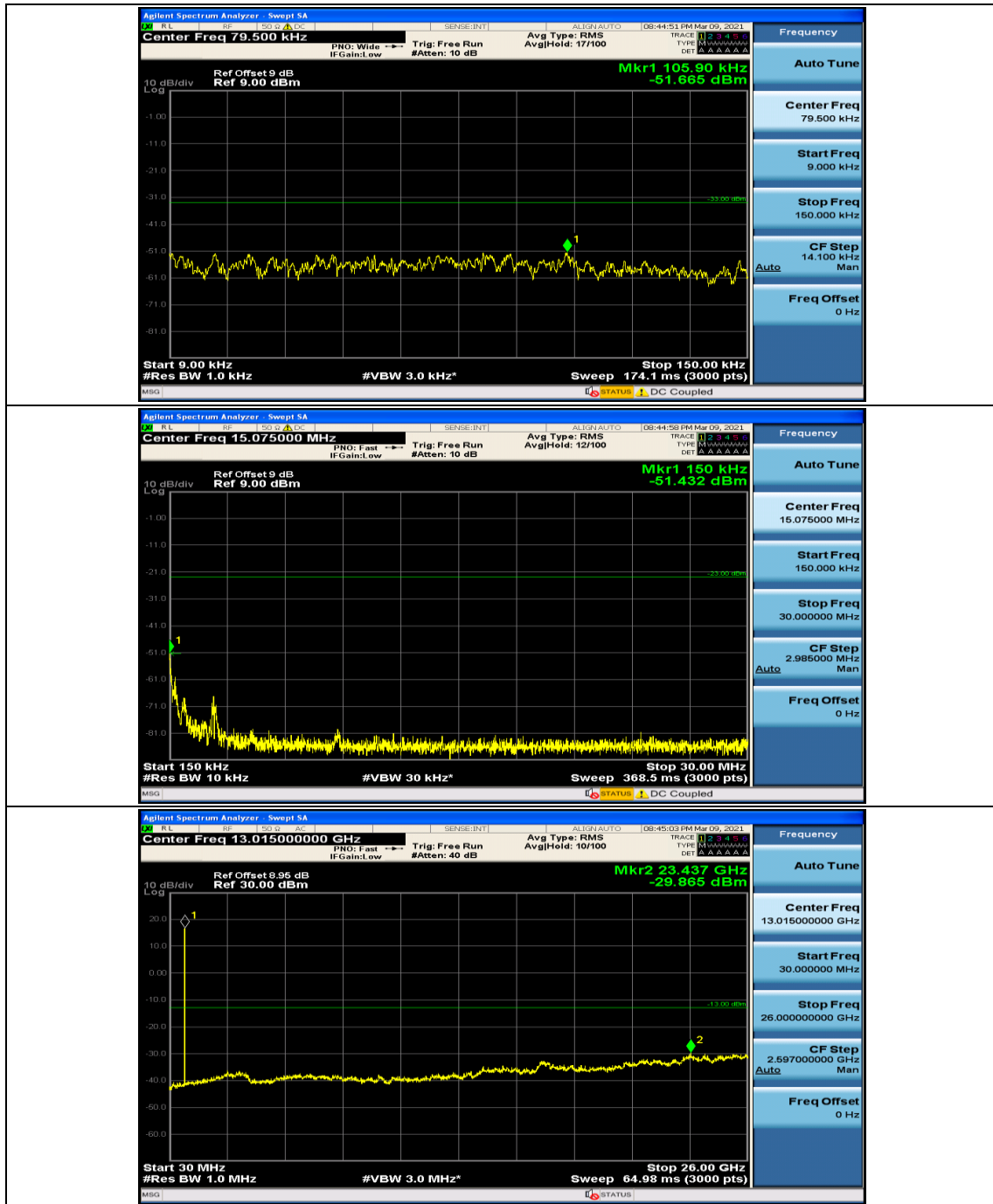


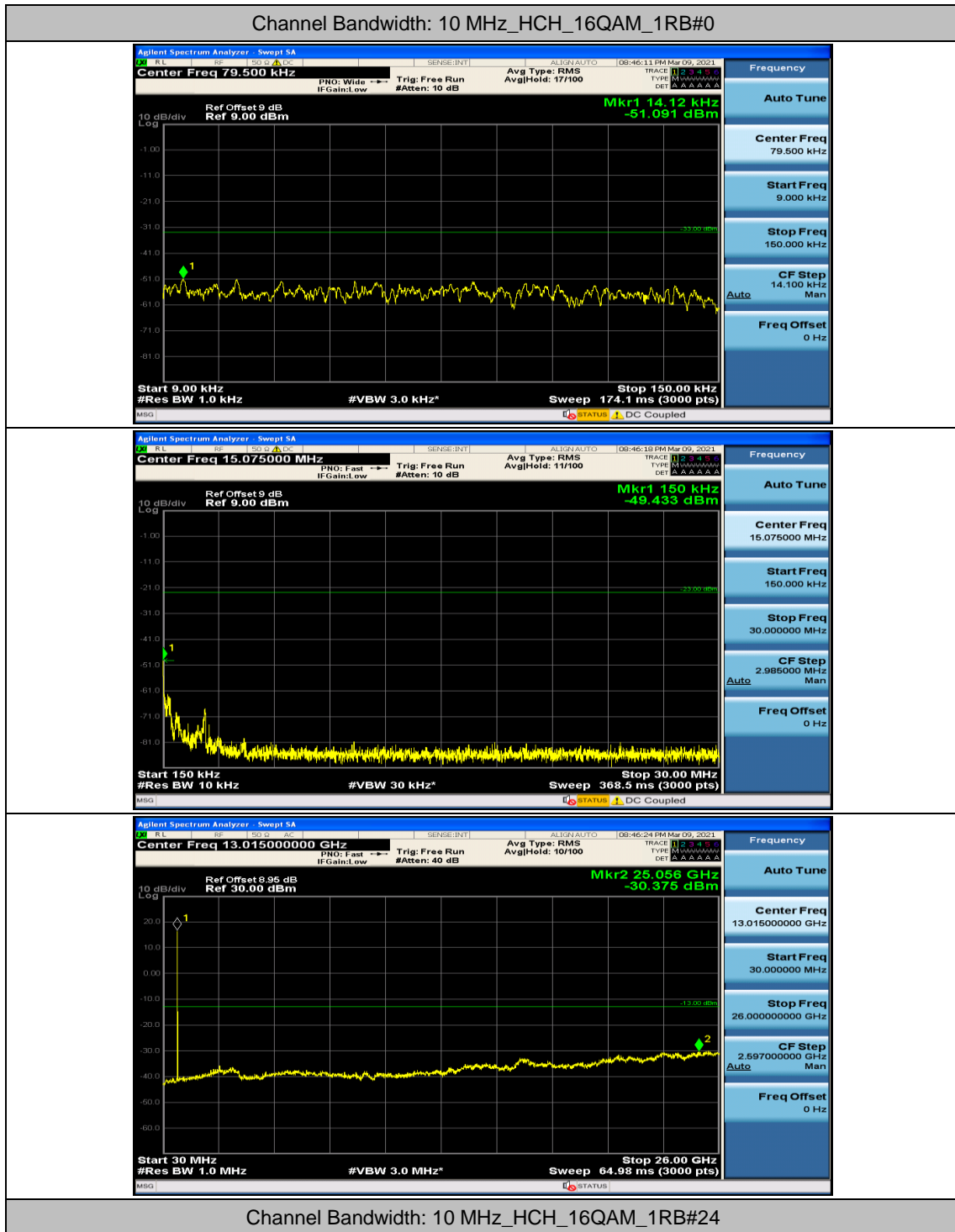


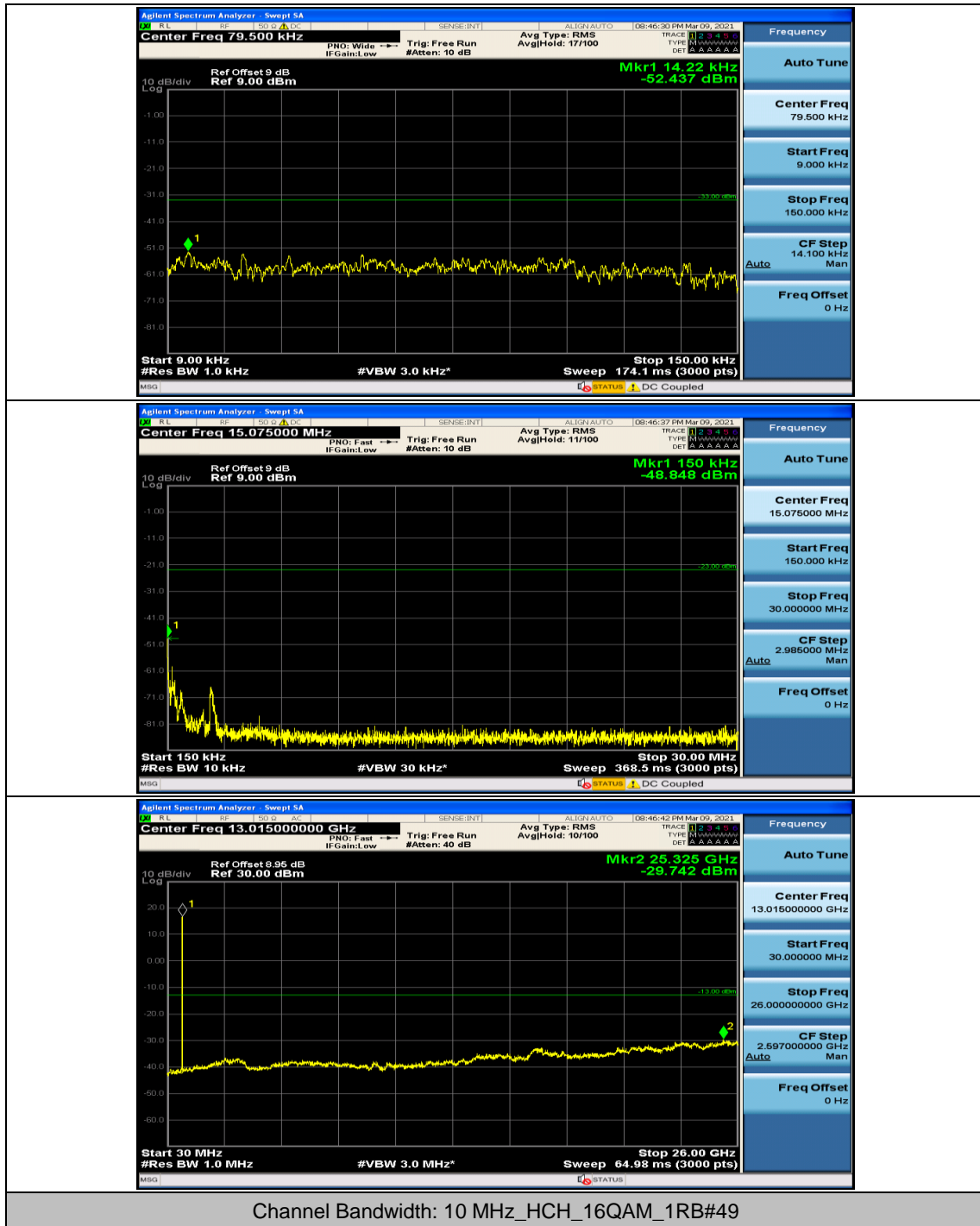


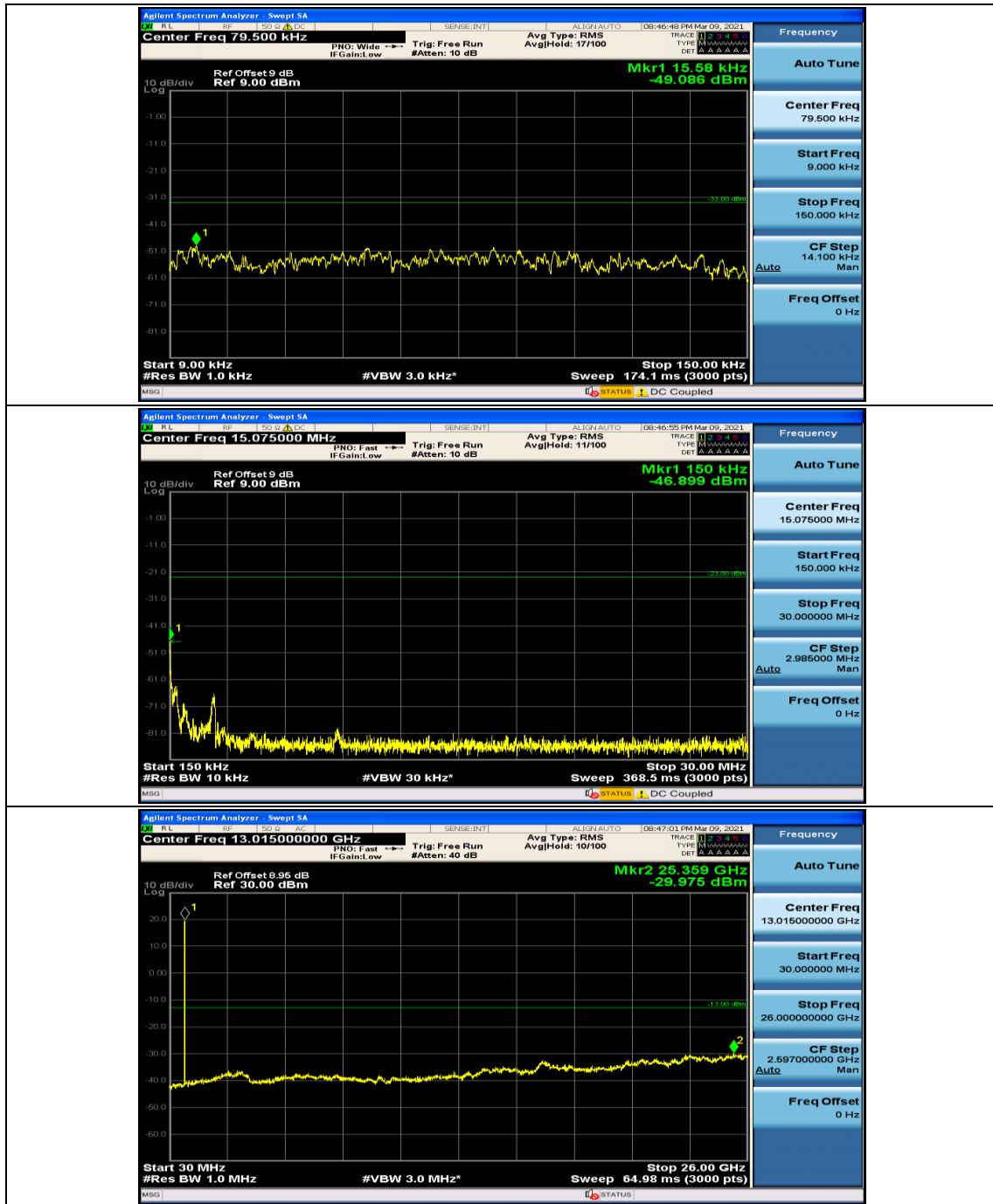












Appendix F: Frequency Stability

Test Result

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-1.61	-0.002279	± 2.5	PASS
		VN	TN	4.88	0.006907	± 2.5	PASS
		VH	TN	3.67	0.005195	± 2.5	PASS
	MCH	VL	TN	2.3	0.003239	± 2.5	PASS
		VN	TN	0.45	0.000634	± 2.5	PASS
		VH	TN	-0.14	-0.000197	± 2.5	PASS
	HCH	VL	TN	4.19	0.005872	± 2.5	PASS
		VN	TN	1.53	0.002144	± 2.5	PASS
		VH	TN	1.81	0.002537	± 2.5	PASS
16QAM	LCH	VL	TN	1	0.001415	± 2.5	PASS
		VN	TN	-1.69	-0.002392	± 2.5	PASS
		VH	TN	1.96	0.002774	± 2.5	PASS
	MCH	VL	TN	1.41	0.001986	± 2.5	PASS
		VN	TN	0.2	0.000282	± 2.5	PASS
		VH	TN	-1.06	-0.001493	± 2.5	PASS
	HCH	VL	TN	-1.63	-0.002285	± 2.5	PASS
		VN	TN	0.81	0.001135	± 2.5	PASS
		VH	TN	2.31	0.003238	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.28	0.003227	± 2.5	PASS
		VN	-20	0.46	0.000651	± 2.5	PASS
		VN	-10	-0.7	-0.000991	± 2.5	PASS
		VN	0	-1.76	-0.002491	± 2.5	PASS
		VN	10	1.97	0.002788	± 2.5	PASS
		VN	20	0.9	0.001274	± 2.5	PASS
		VN	30	4.48	0.006341	± 2.5	PASS
		VN	40	2.11	0.002987	± 2.5	PASS
		VN	50	2.59	0.003666	± 2.5	PASS

	MCH	VN	-30	1.06	0.001493	± 2.5	PASS
		VN	-20	2.93	0.004127	± 2.5	PASS
		VN	-10	-0.89	-0.001254	± 2.5	PASS
		VN	0	3.99	0.005620	± 2.5	PASS
		VN	10	2.14	0.003014	± 2.5	PASS
		VN	20	2.72	0.003831	± 2.5	PASS
		VN	30	-0.01	-0.000014	± 2.5	PASS
		VN	40	-0.79	-0.001113	± 2.5	PASS
		VN	50	-0.21	-0.000296	± 2.5	PASS
	HCH	VN	-30	-1.3	-0.001822	± 2.5	PASS
		VN	-20	2.6	0.003644	± 2.5	PASS
		VN	-10	-1.52	-0.002130	± 2.5	PASS
		VN	0	-1.78	-0.002495	± 2.5	PASS
		VN	10	4.75	0.006657	± 2.5	PASS
		VN	20	-1	-0.001402	± 2.5	PASS
		VN	30	3.9	0.005466	± 2.5	PASS
		VN	40	1.6	0.002242	± 2.5	PASS
		VN	50	4.29	0.006013	± 2.5	PASS
16QAM	LCH	VN	-30	-0.08	-0.000113	± 2.5	PASS
		VN	-20	3.35	0.004742	± 2.5	PASS
		VN	-10	0.73	0.001033	± 2.5	PASS
		VN	0	0.7	0.000991	± 2.5	PASS
		VN	10	0.94	0.001331	± 2.5	PASS
		VN	20	1.63	0.002307	± 2.5	PASS
		VN	30	2.71	0.003836	± 2.5	PASS
		VN	40	1.65	0.002335	± 2.5	PASS
		VN	50	0.35	0.000495	± 2.5	PASS
	MCH	VN	-30	-1.83	-0.002565	± 2.5	PASS
		VN	-20	-1.05	-0.001472	± 2.5	PASS
		VN	-10	2.81	0.003938	± 2.5	PASS
		VN	0	2.93	0.004107	± 2.5	PASS
		VN	10	3.2	0.004485	± 2.5	PASS
		VN	20	1.67	0.002341	± 2.5	PASS
		VN	30	0.98	0.001374	± 2.5	PASS
		VN	40	-0.55	-0.000771	± 2.5	PASS
		VN	50	-1.16	-0.001626	± 2.5	PASS
	HCH	VN	-30	3.36	0.004709	± 2.5	PASS
		VN	-20	-1.75	-0.002453	± 2.5	PASS
		VN	-10	-1.61	-0.002256	± 2.5	PASS
		VN	0	2.12	0.002971	± 2.5	PASS
		VN	10	-1.4	-0.001962	± 2.5	PASS

		VN	20	-0.71	-0.000995	± 2.5	PASS
		VN	30	-1.97	-0.002761	± 2.5	PASS
		VN	40	0.5	0.000701	± 2.5	PASS
		VN	50	3.54	0.004961	± 2.5	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	1.33	0.001876	± 2.5	PASS
		VN	TN	-0.7	-0.000987	± 2.5	PASS
		VH	TN	4.79	0.006756	± 2.5	PASS
	MCH	VL	TN	0.14	0.000197	± 2.5	PASS
		VN	TN	3.57	0.005028	± 2.5	PASS
		VH	TN	-0.29	-0.000408	± 2.5	PASS
	HCH	VL	TN	1.95	0.002743	± 2.5	PASS
		VN	TN	4.23	0.005949	± 2.5	PASS
		VH	TN	-1.95	-0.002743	± 2.5	PASS
16QAM	LCH	VL	TN	4.02	0.005670	± 2.5	PASS
		VN	TN	-0.59	-0.000832	± 2.5	PASS
		VH	TN	1.63	0.002299	± 2.5	PASS
	MCH	VL	TN	1.23	0.001732	± 2.5	PASS
		VN	TN	2.94	0.004141	± 2.5	PASS
		VH	TN	2.38	0.003352	± 2.5	PASS
	HCH	VL	TN	-1.14	-0.001603	± 2.5	PASS
		VN	TN	-1.31	-0.001842	± 2.5	PASS
		VH	TN	4.49	0.006315	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.33	0.004697	± 2.5	PASS
		VN	-20	1.81	0.002553	± 2.5	PASS
		VN	-10	3.32	0.004683	± 2.5	PASS
		VN	0	2.13	0.003004	± 2.5	PASS
		VN	10	1.61	0.002271	± 2.5	PASS
		VN	20	2.54	0.003583	± 2.5	PASS
		VN	30	0.17	0.000240	± 2.5	PASS
		VN	40	0.78	0.001100	± 2.5	PASS
		VN	50	4.02	0.005670	± 2.5	PASS
	MCH	VN	-30	-1.9	-0.002676	± 2.5	PASS

	VN	VN	-20	-1.38	-0.001944	± 2.5	PASS
		VN	-10	2.36	0.003324	± 2.5	PASS
		VN	0	0.46	0.000648	± 2.5	PASS
		VN	10	2.26	0.003183	± 2.5	PASS
		VN	20	1.78	0.002507	± 2.5	PASS
		VN	30	4.72	0.006648	± 2.5	PASS
		VN	40	-0.95	-0.001338	± 2.5	PASS
		VN	50	-0.74	-0.001042	± 2.5	PASS
	HCH	VN	-30	4.07	0.005724	± 2.5	PASS
		VN	-20	3.6	0.005063	± 2.5	PASS
		VN	-10	4.66	0.006554	± 2.5	PASS
		VN	0	3.41	0.004796	± 2.5	PASS
		VN	10	2.88	0.004051	± 2.5	PASS
		VN	20	-0.1	-0.000141	± 2.5	PASS
		VN	30	2.75	0.003868	± 2.5	PASS
		VN	40	0.65	0.000914	± 2.5	PASS
		VN	50	-0.48	-0.000675	± 2.5	PASS
		16QAM	LCH	VN	-30	-1.52	-0.002141
VN	-20			2.72	0.003831	± 2.5	PASS
VN	-10			3.93	0.005535	± 2.5	PASS
VN	0			4.27	0.006014	± 2.5	PASS
VN	10			3.58	0.005042	± 2.5	PASS
VN	20			4.3	0.006056	± 2.5	PASS
VN	30			3.52	0.004958	± 2.5	PASS
VN	40			3.81	0.005366	± 2.5	PASS
VN	50			1.04	0.001465	± 2.5	PASS
MCH	VN		-30	3.82	0.005373	± 2.5	PASS
	VN		-20	-0.61	-0.000858	± 2.5	PASS
	VN		-10	3.6	0.005063	± 2.5	PASS
	VN		0	-1.38	-0.001941	± 2.5	PASS
	VN		10	2.91	0.004093	± 2.5	PASS
	VN		20	2.19	0.003080	± 2.5	PASS
	VN		30	0.8	0.001125	± 2.5	PASS
	VN		40	1.7	0.002391	± 2.5	PASS
	VN		50	-0.31	-0.000436	± 2.5	PASS
HCH	VN		-30	4.61	0.006484	± 2.5	PASS
	VN		-20	0.58	0.000816	± 2.5	PASS
	VN		-10	4.21	0.005921	± 2.5	PASS
	VN		0	-1.19	-0.001674	± 2.5	PASS
	VN		10	1.32	0.001857	± 2.5	PASS
	VN		20	3.31	0.004655	± 2.5	PASS

		VN	30	4.31	0.006062	± 2.5	PASS
		VN	40	4.25	0.005977	± 2.5	PASS
		VN	50	-1.75	-0.002461	± 2.5	PASS