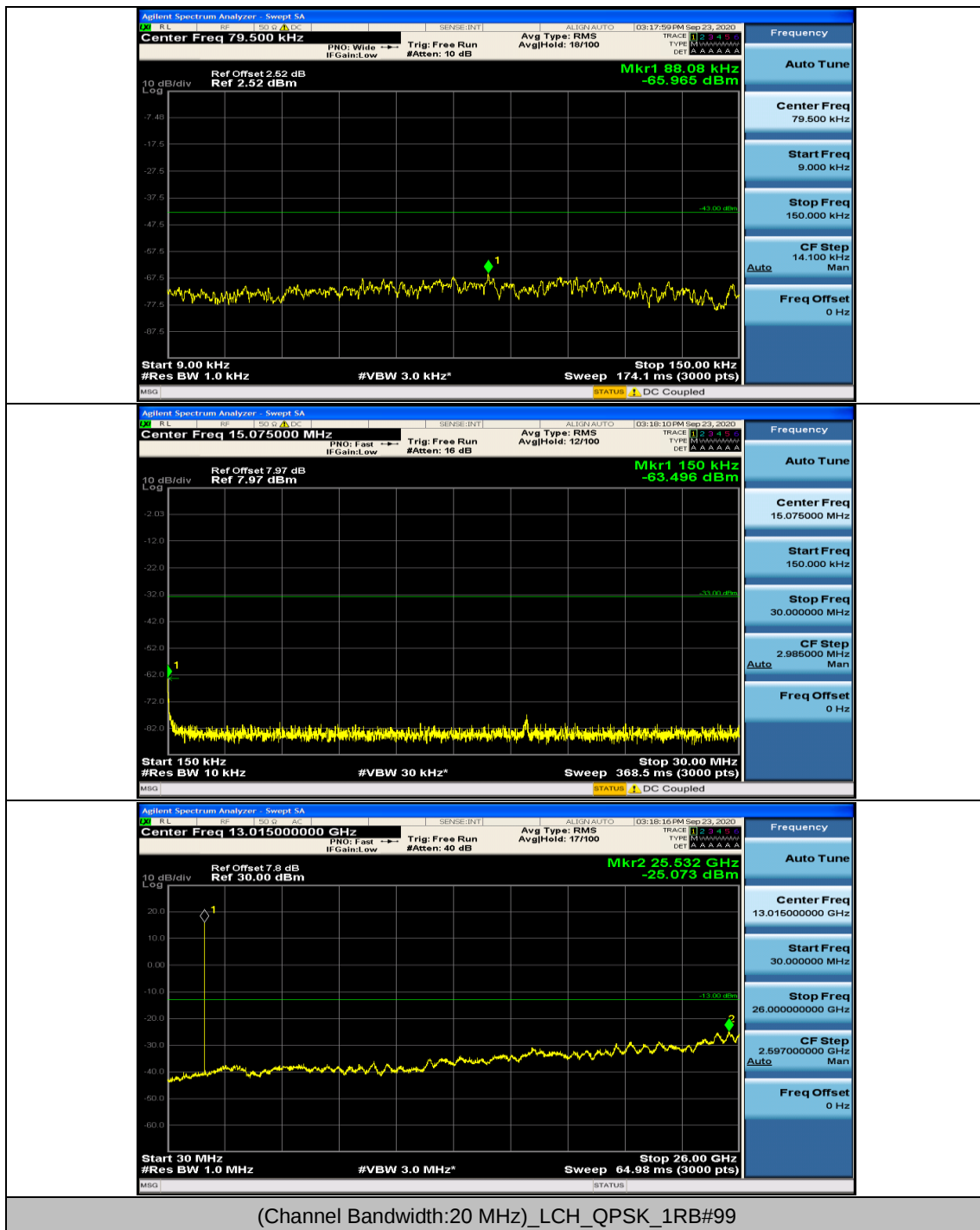
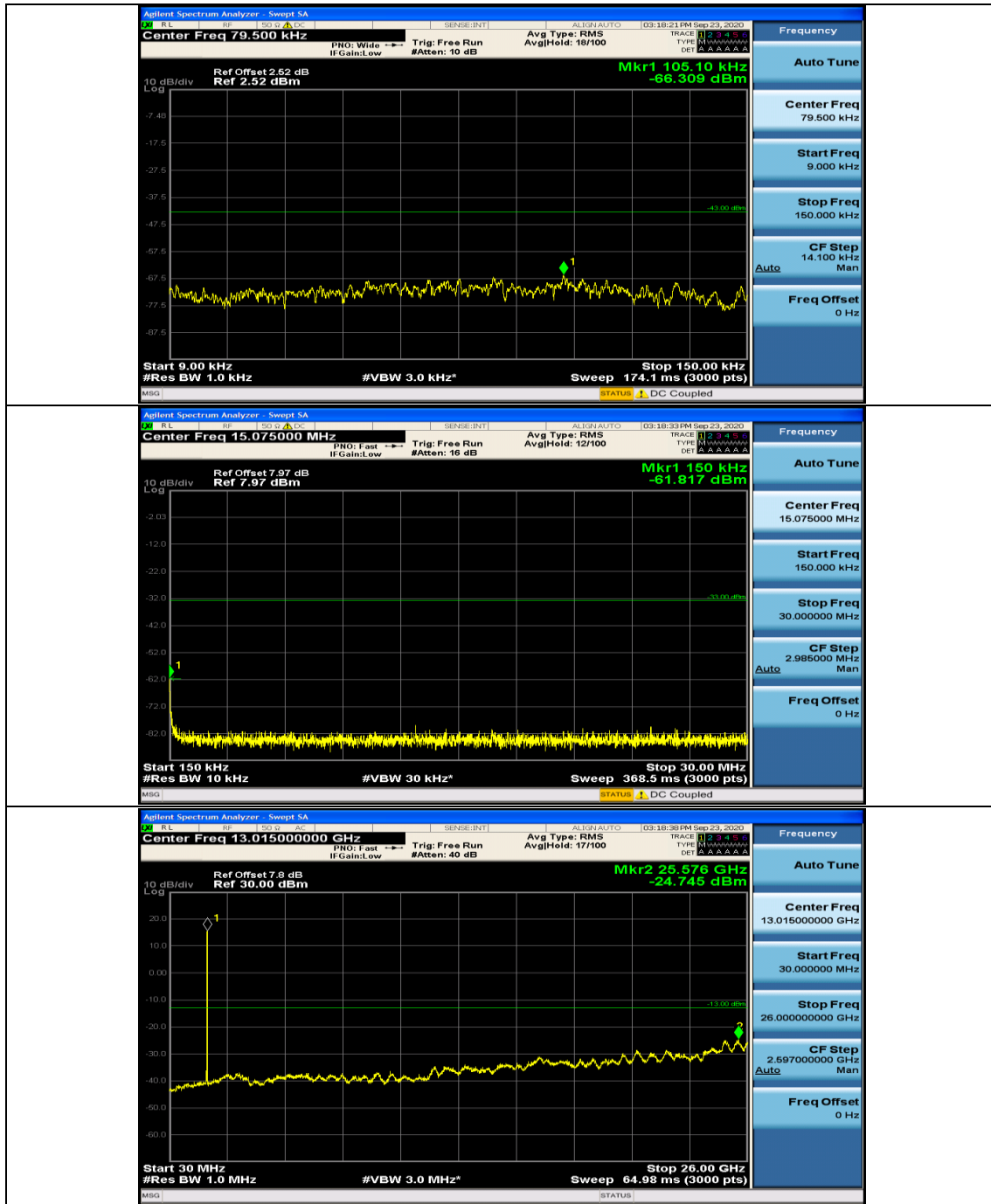
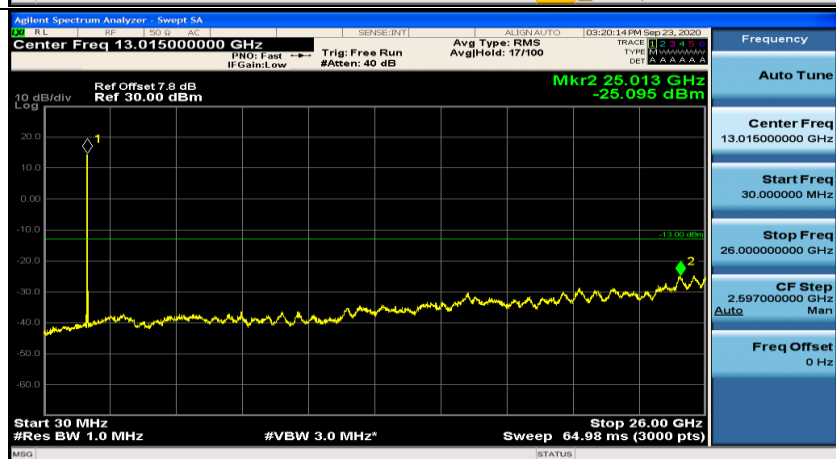
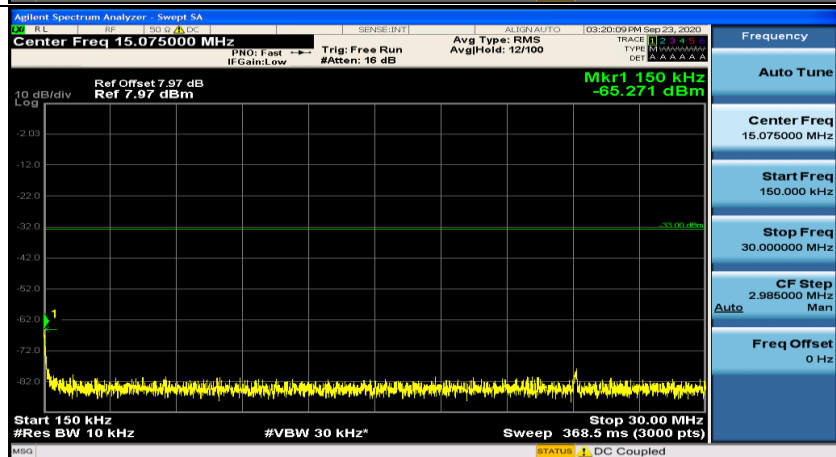
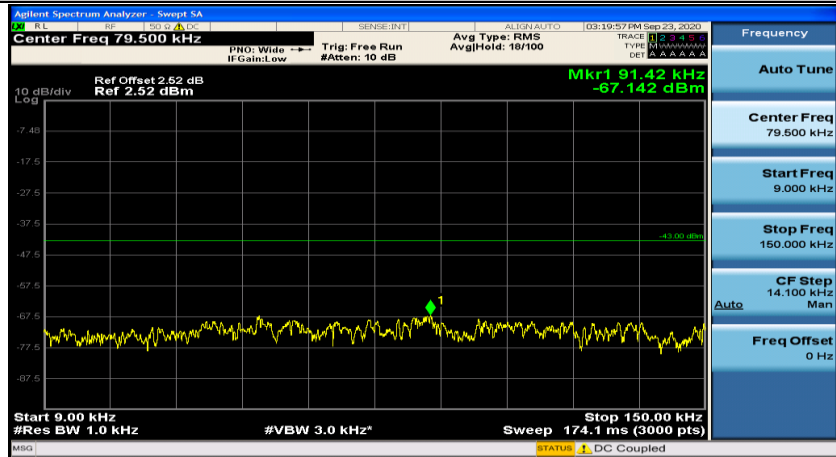


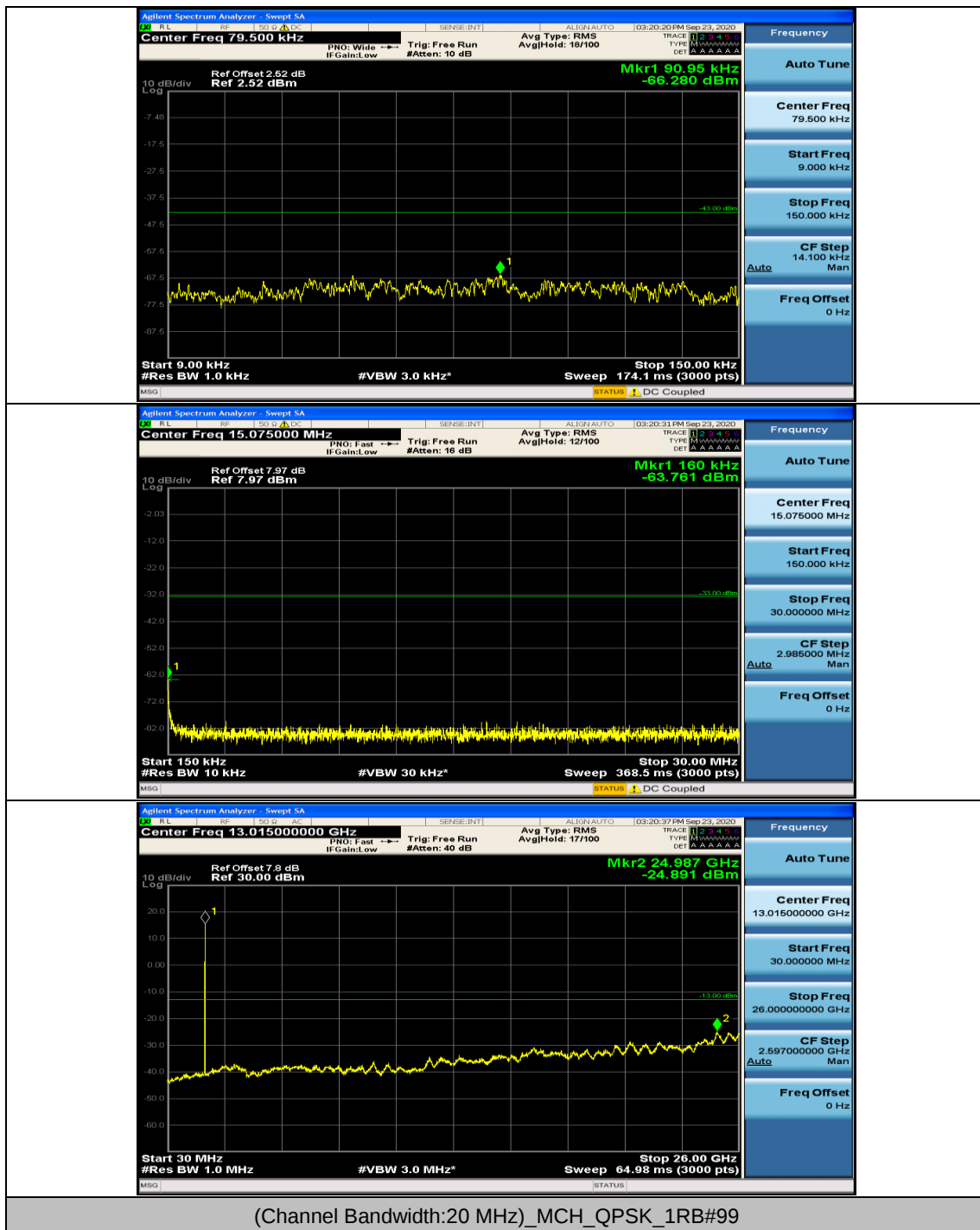


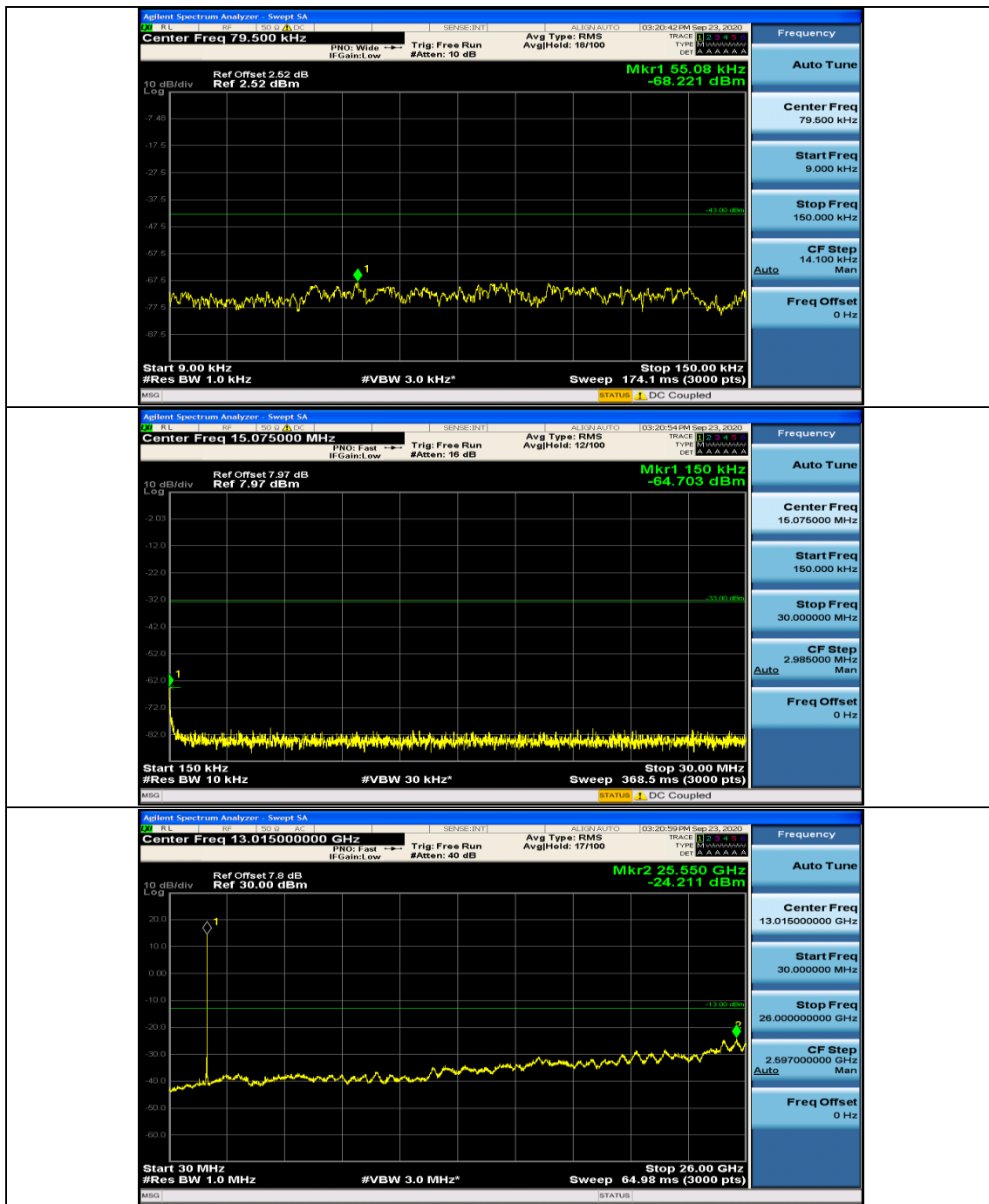


(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#0

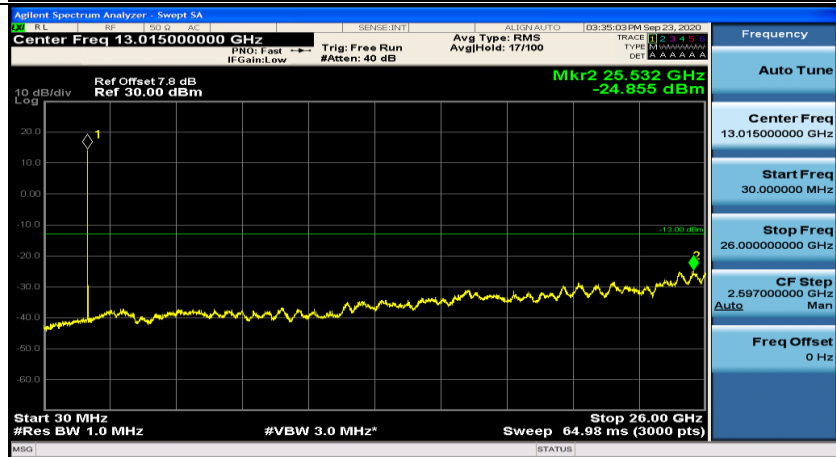
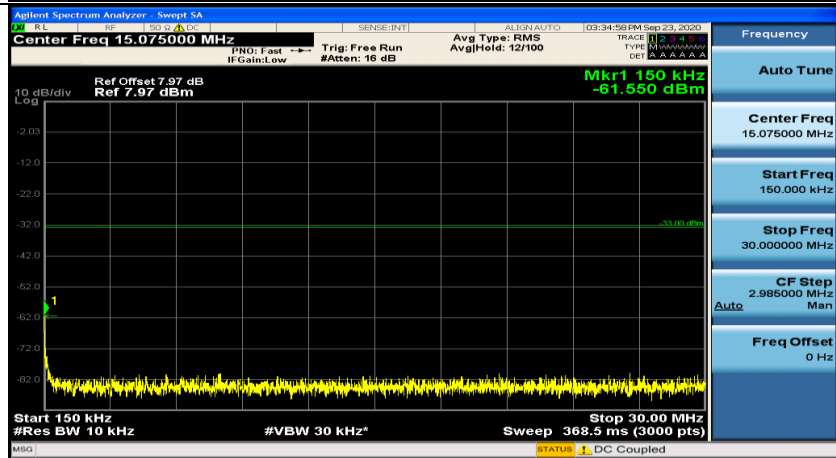
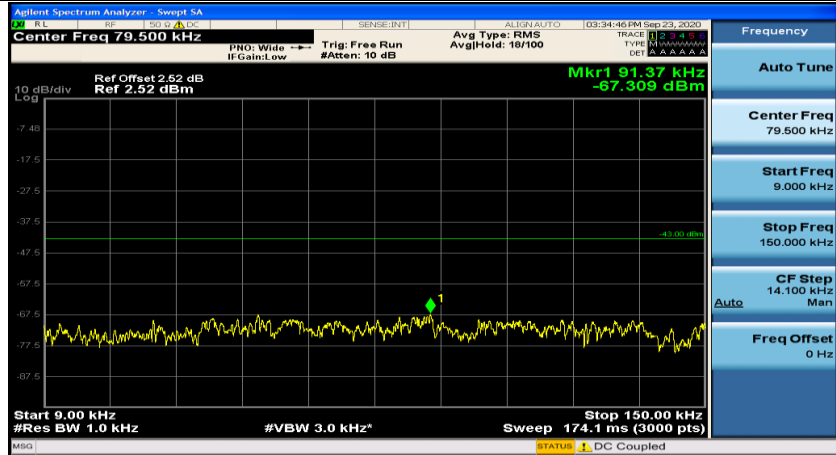


(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#49

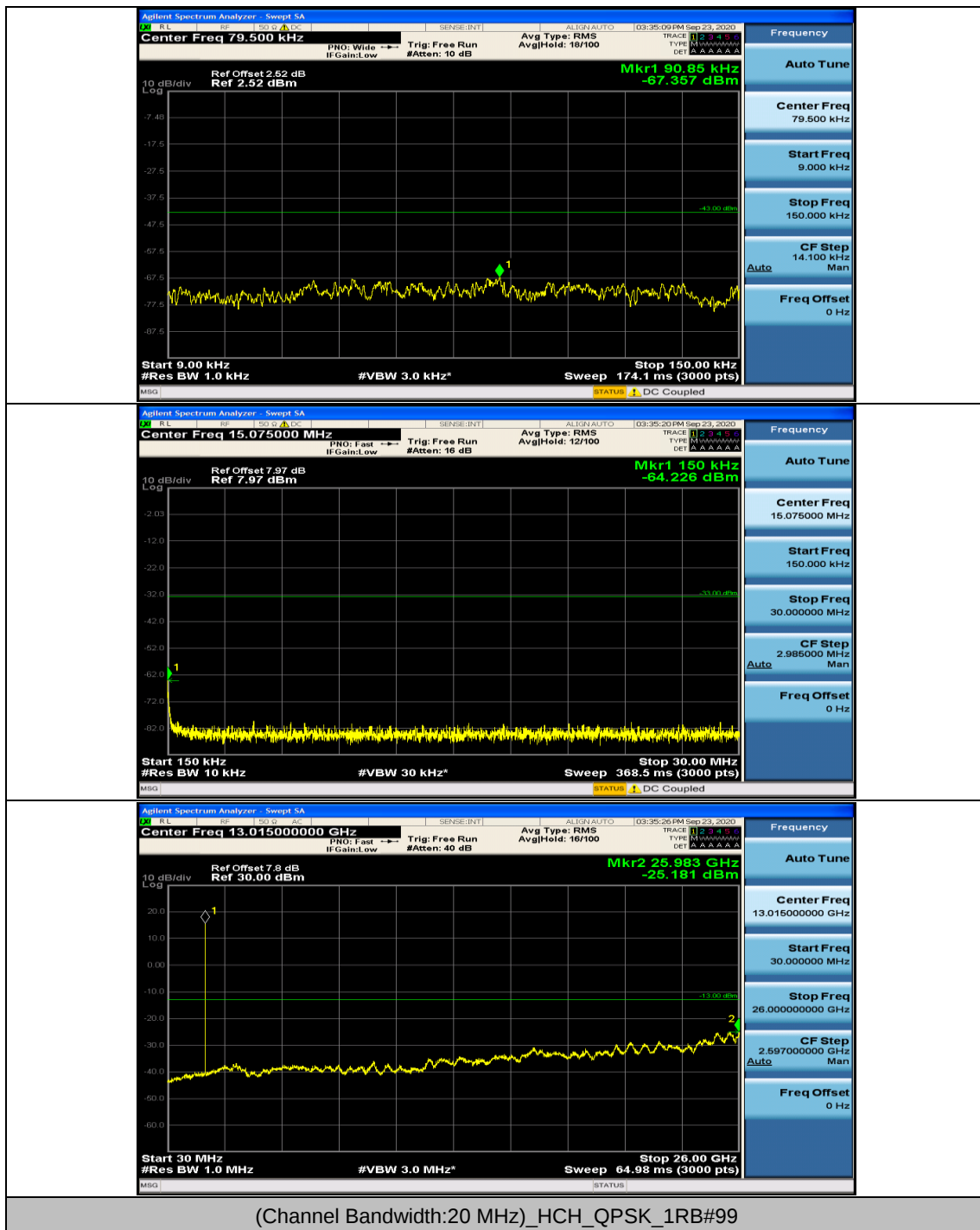


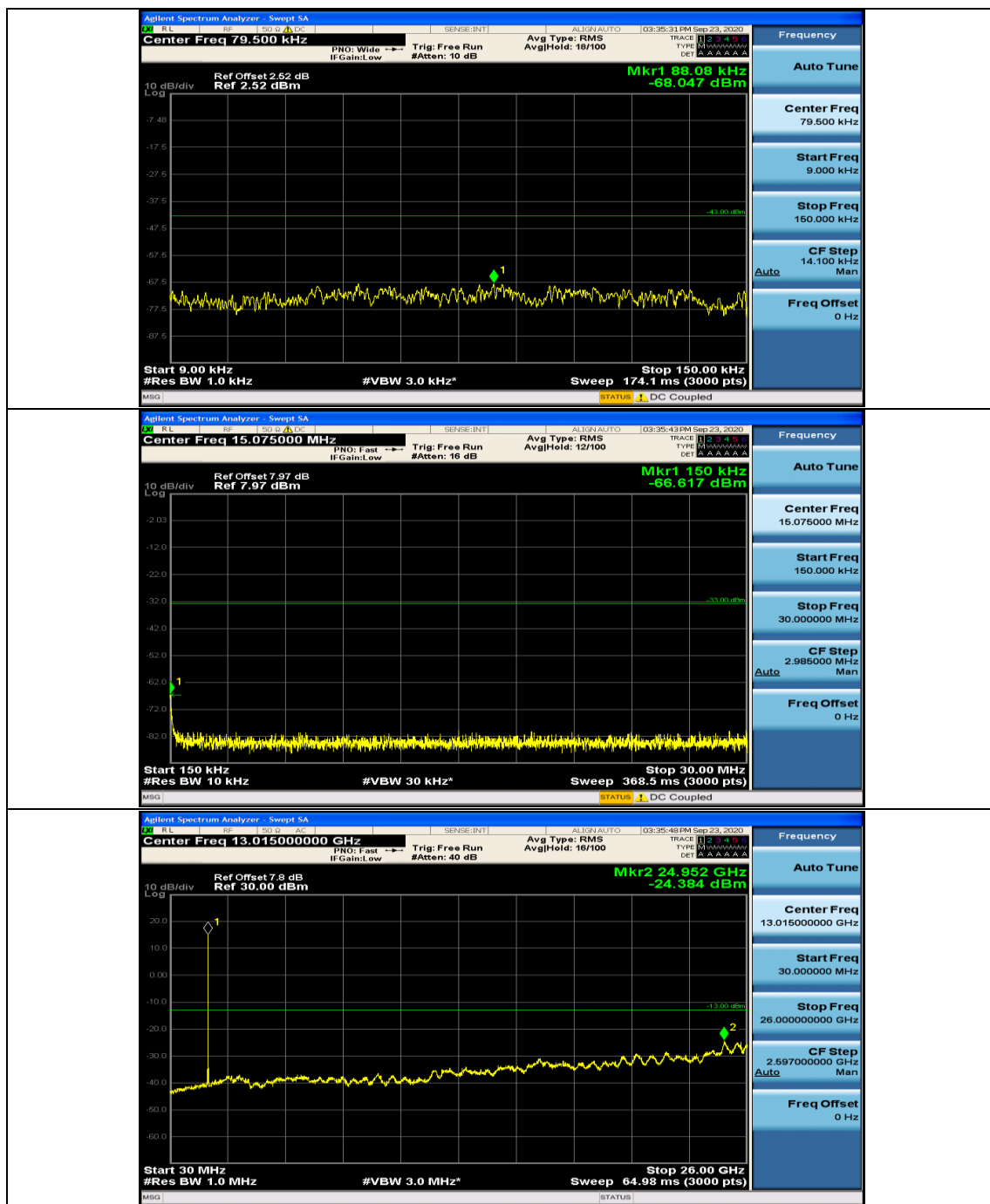


(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#0

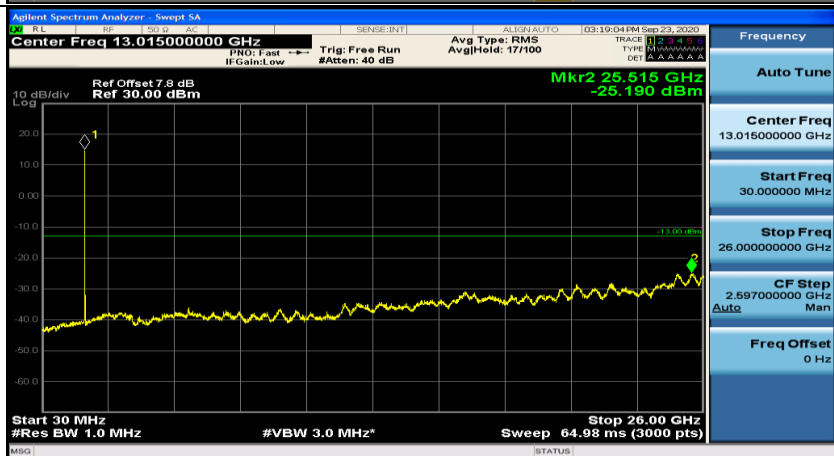
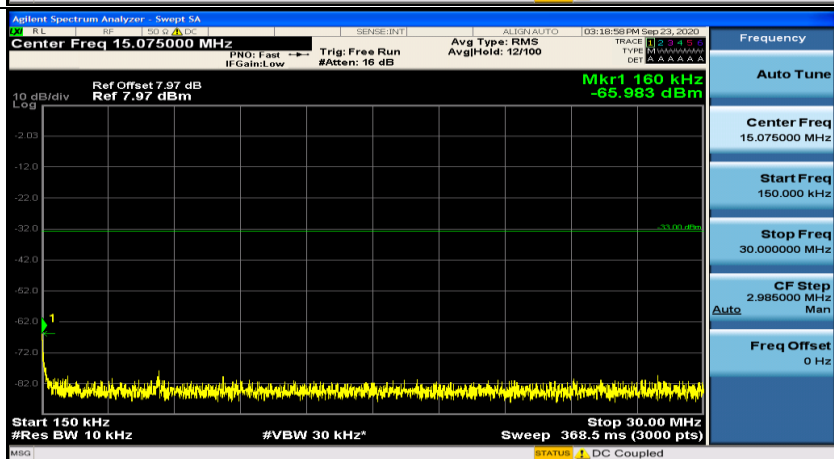
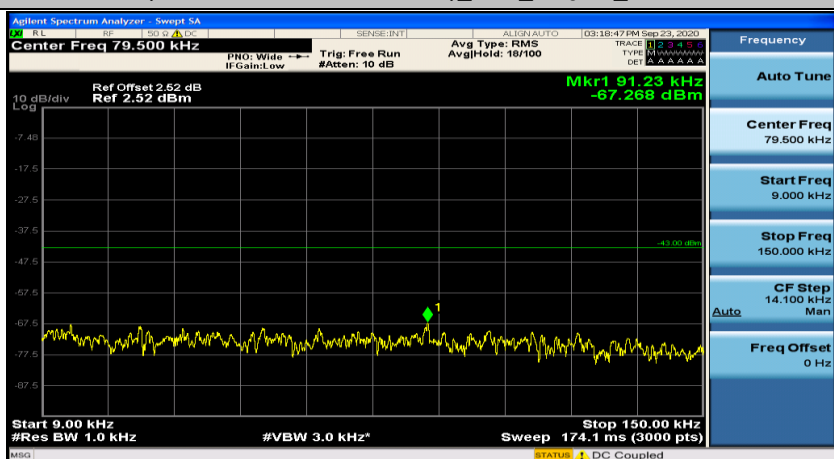


(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#49

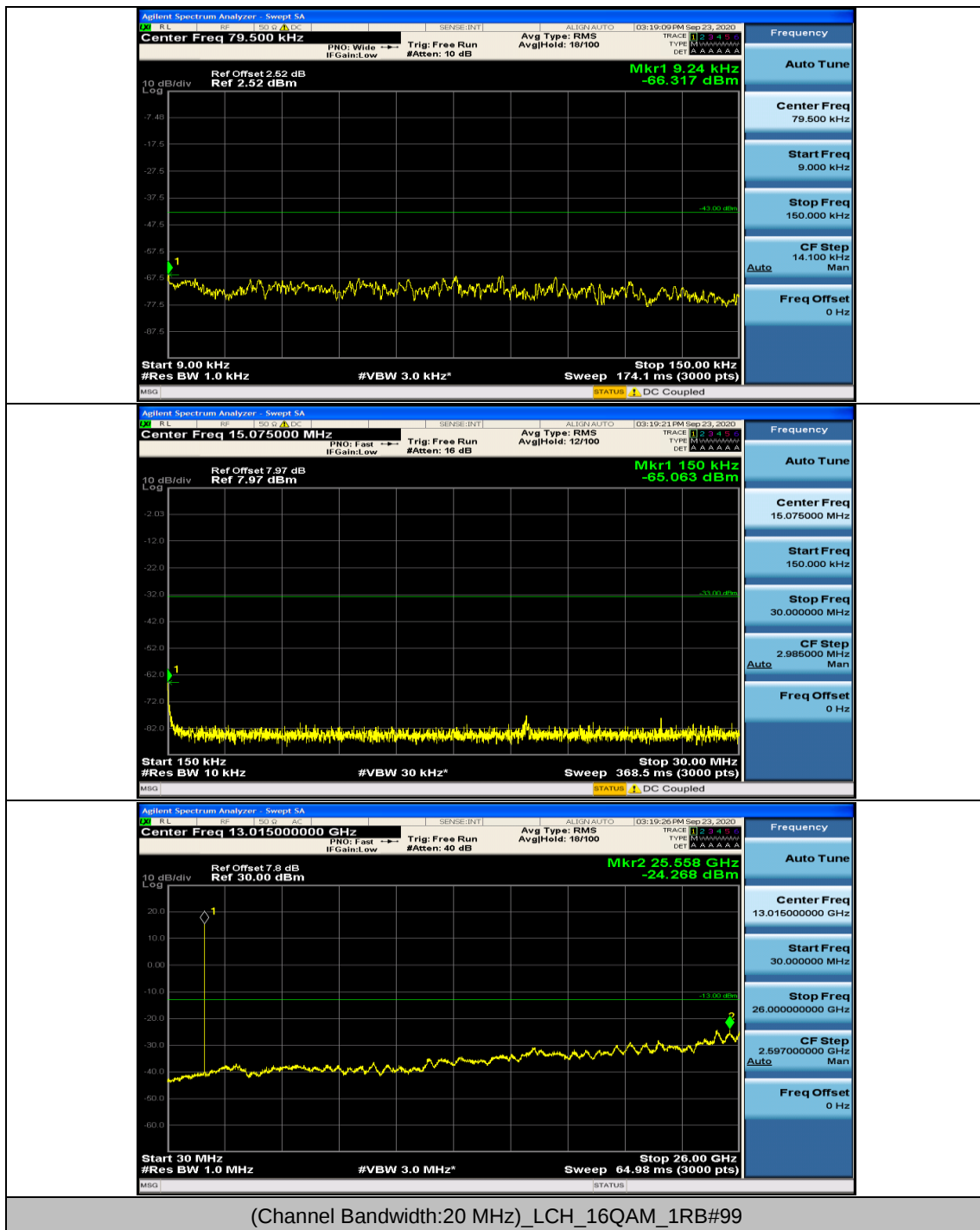


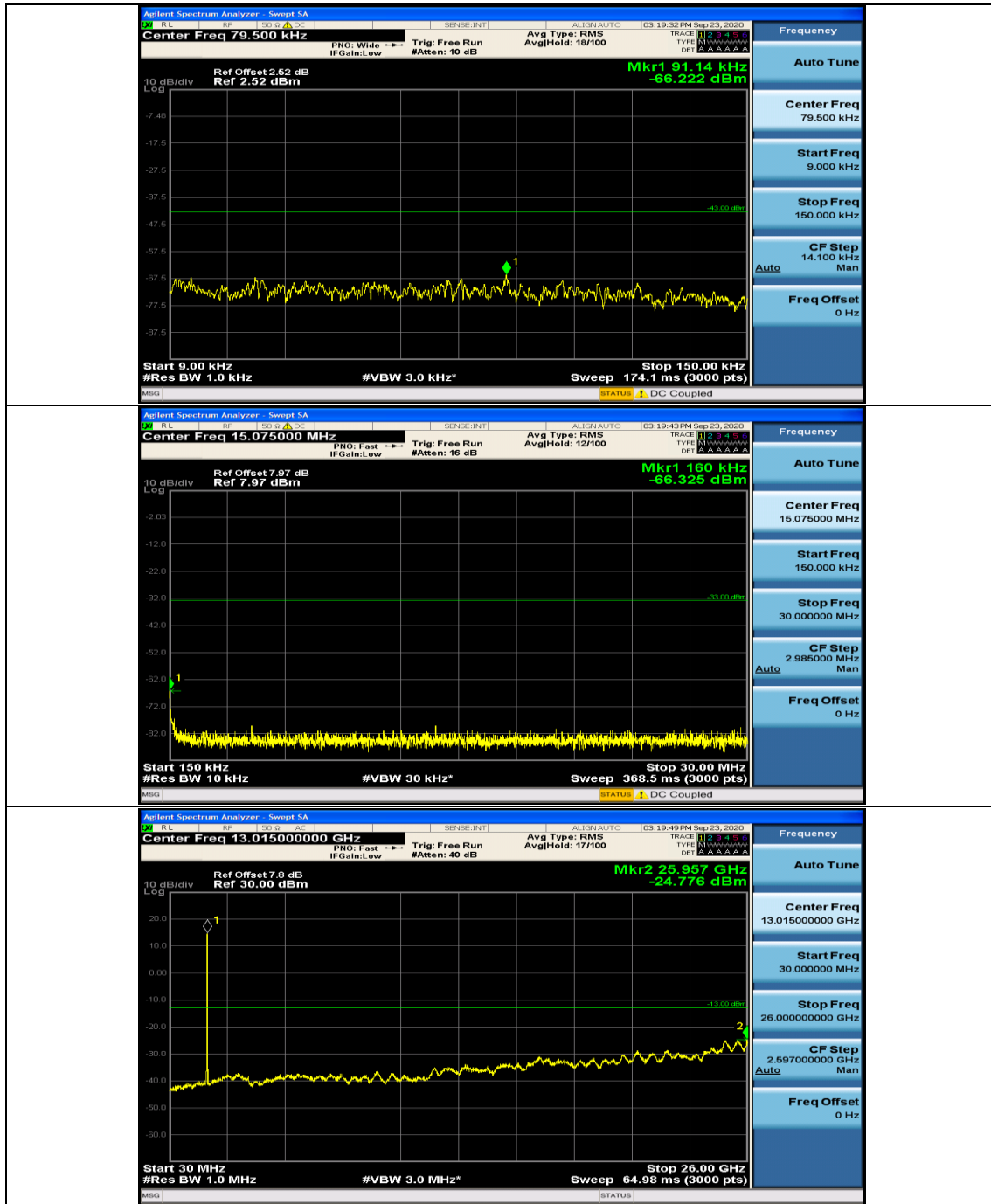


(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#0

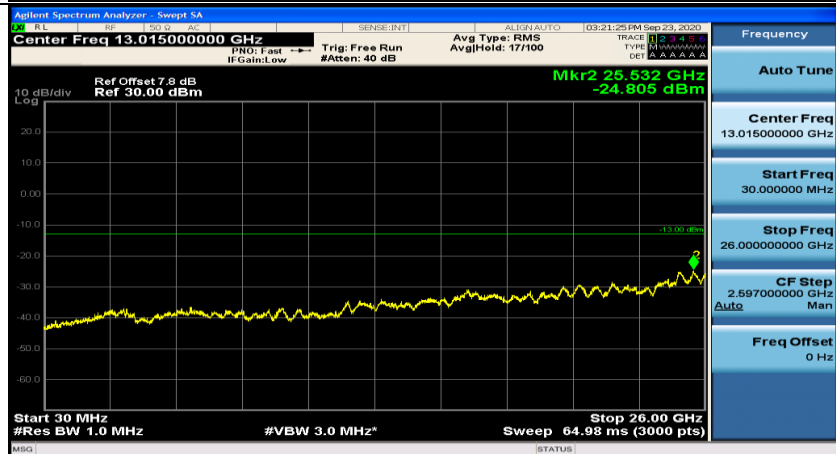
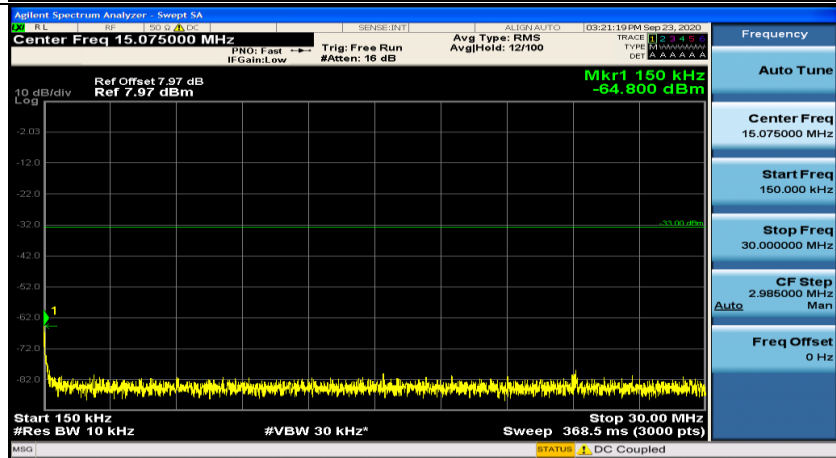
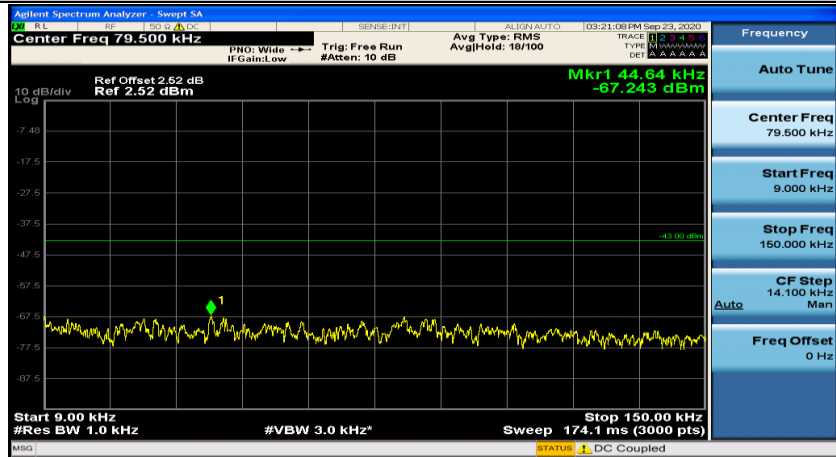


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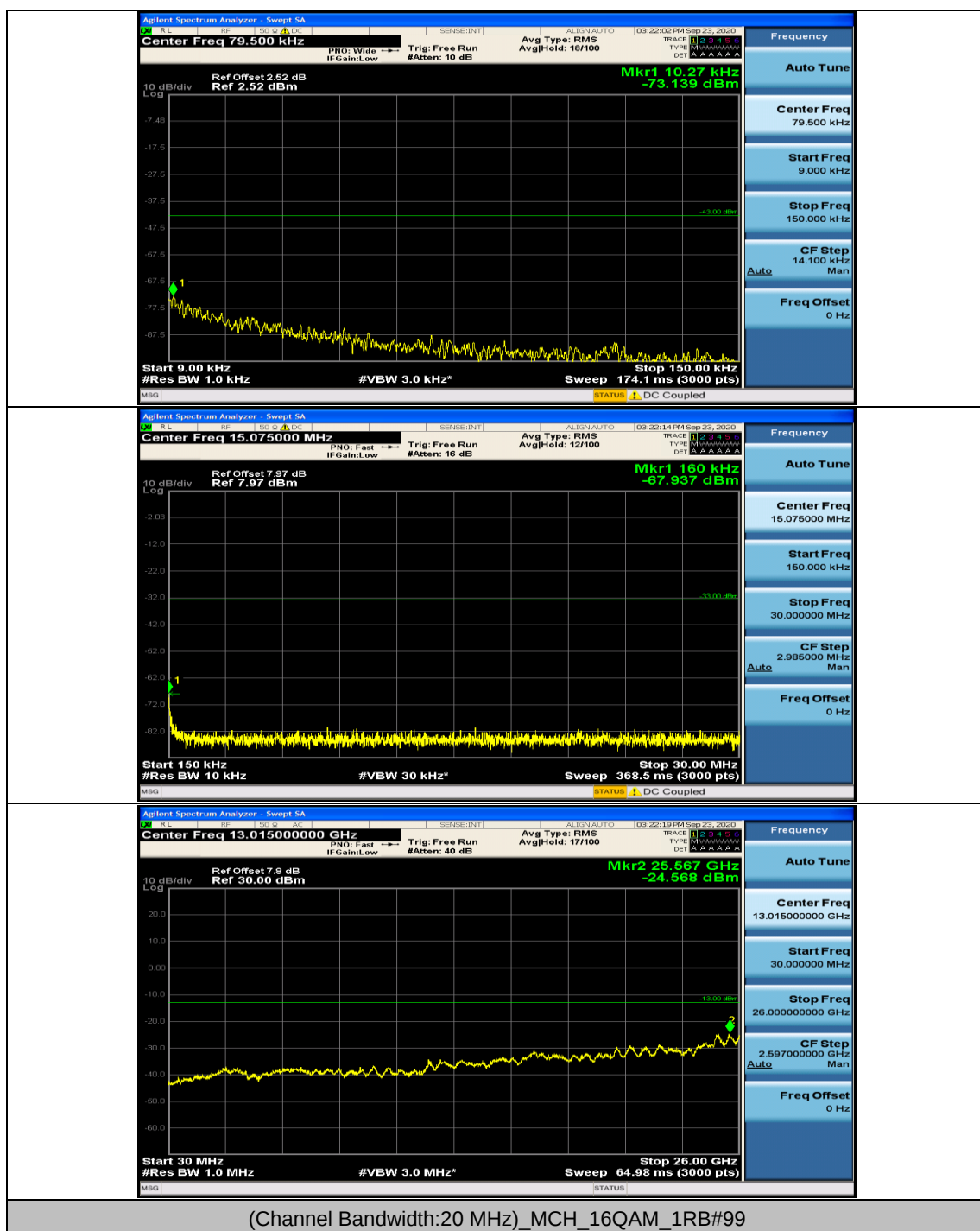


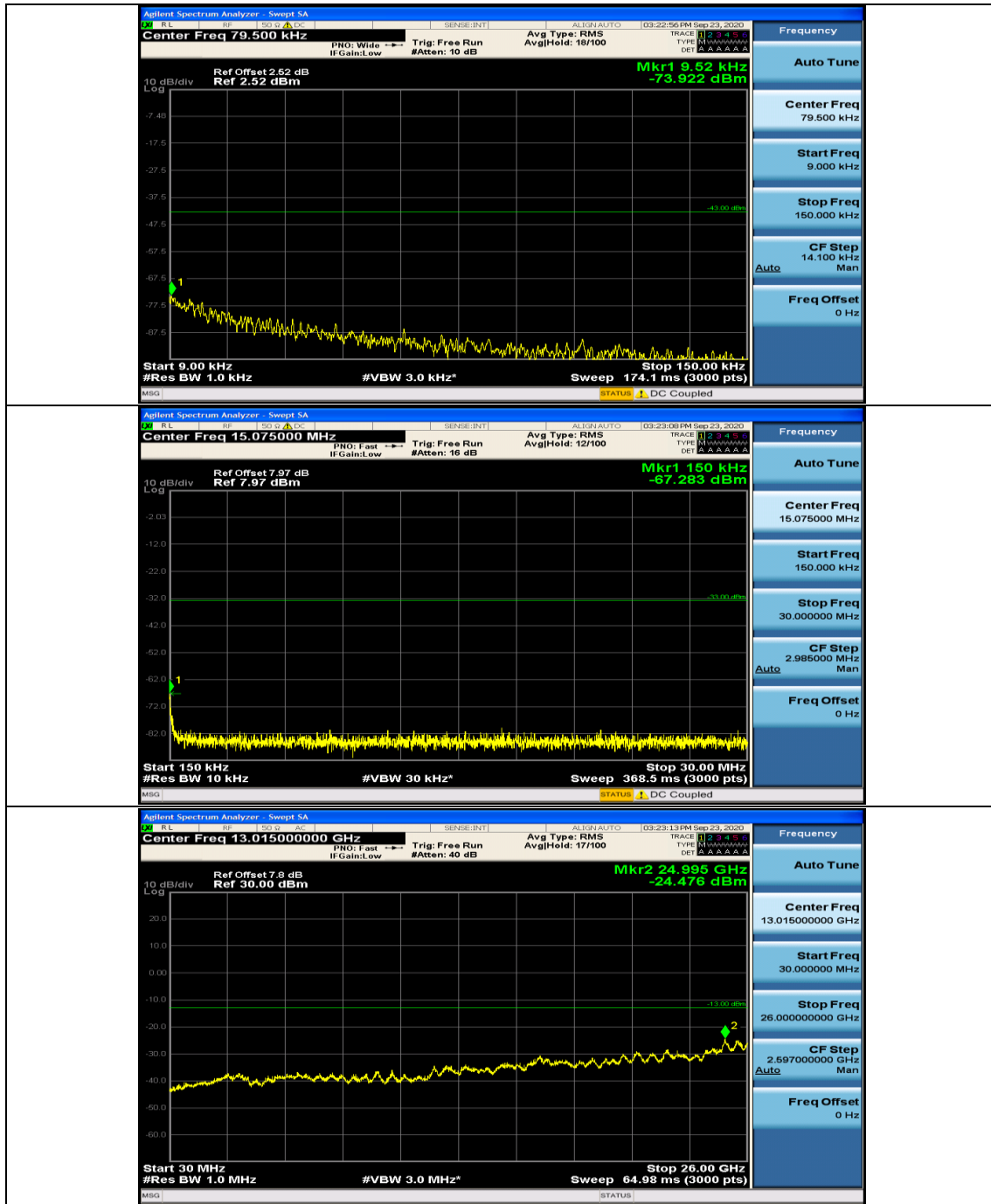


(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#0

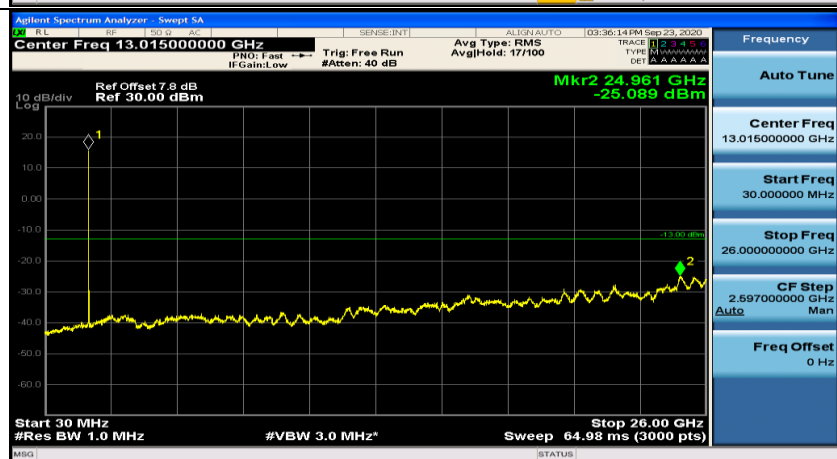
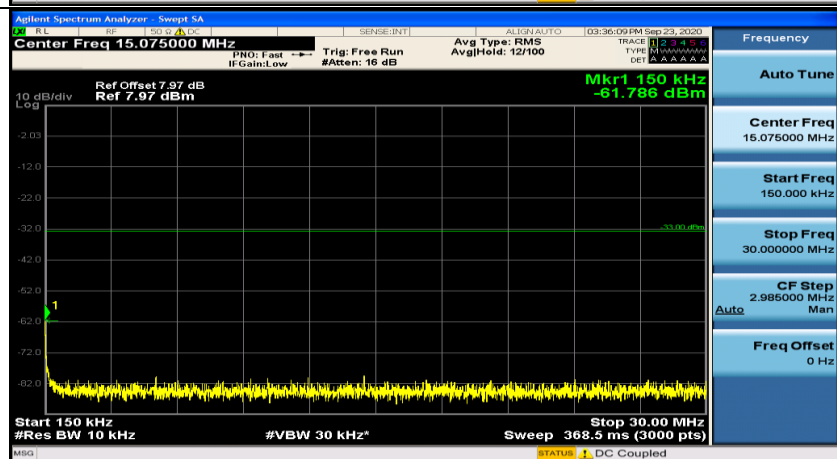
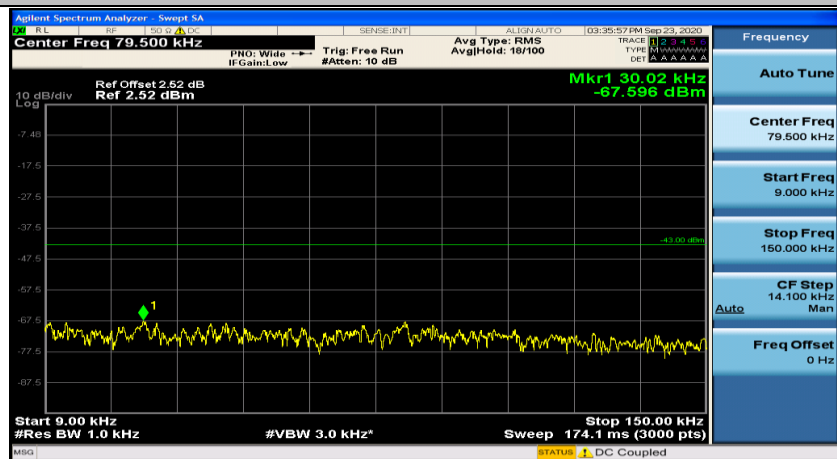


(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#49

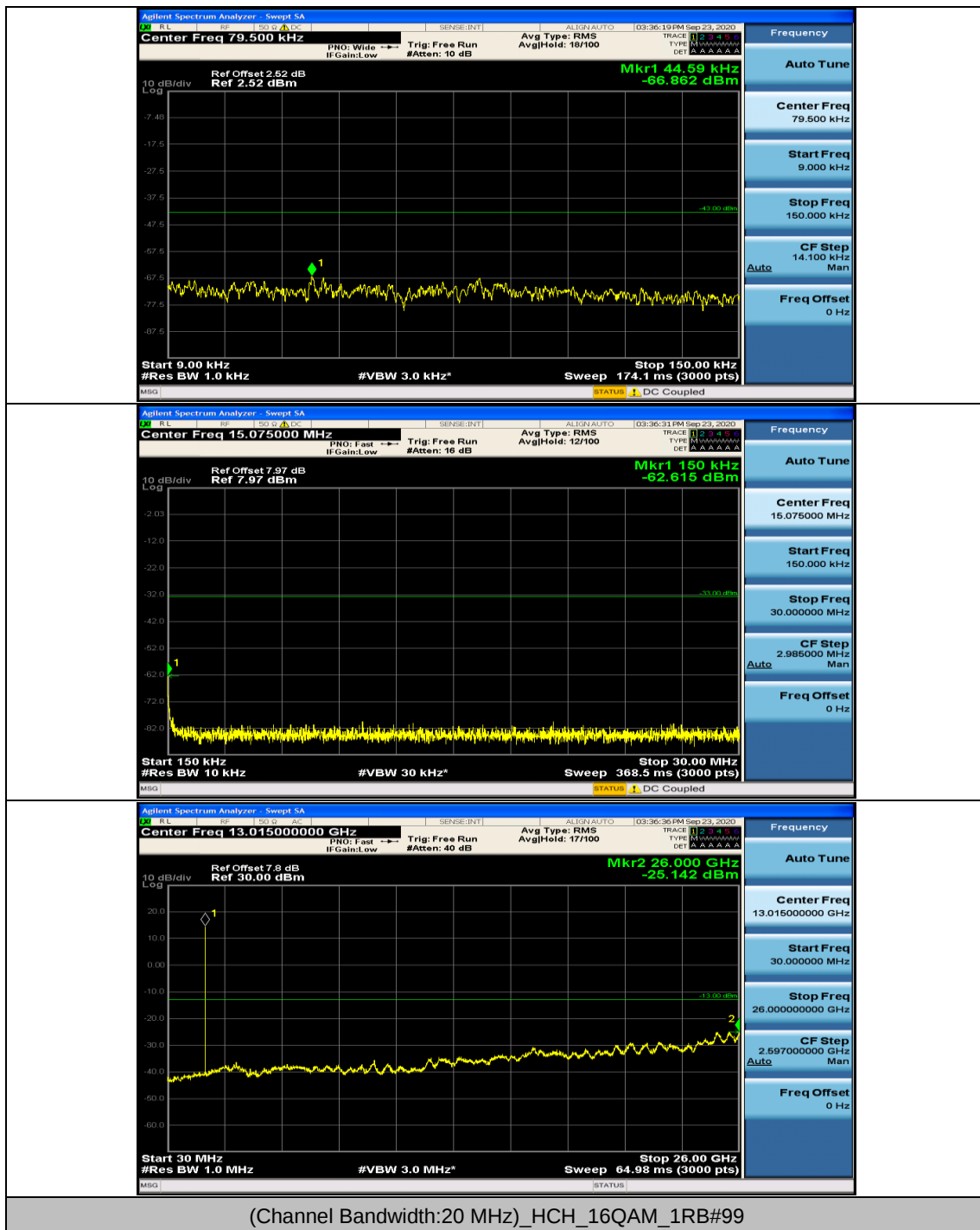


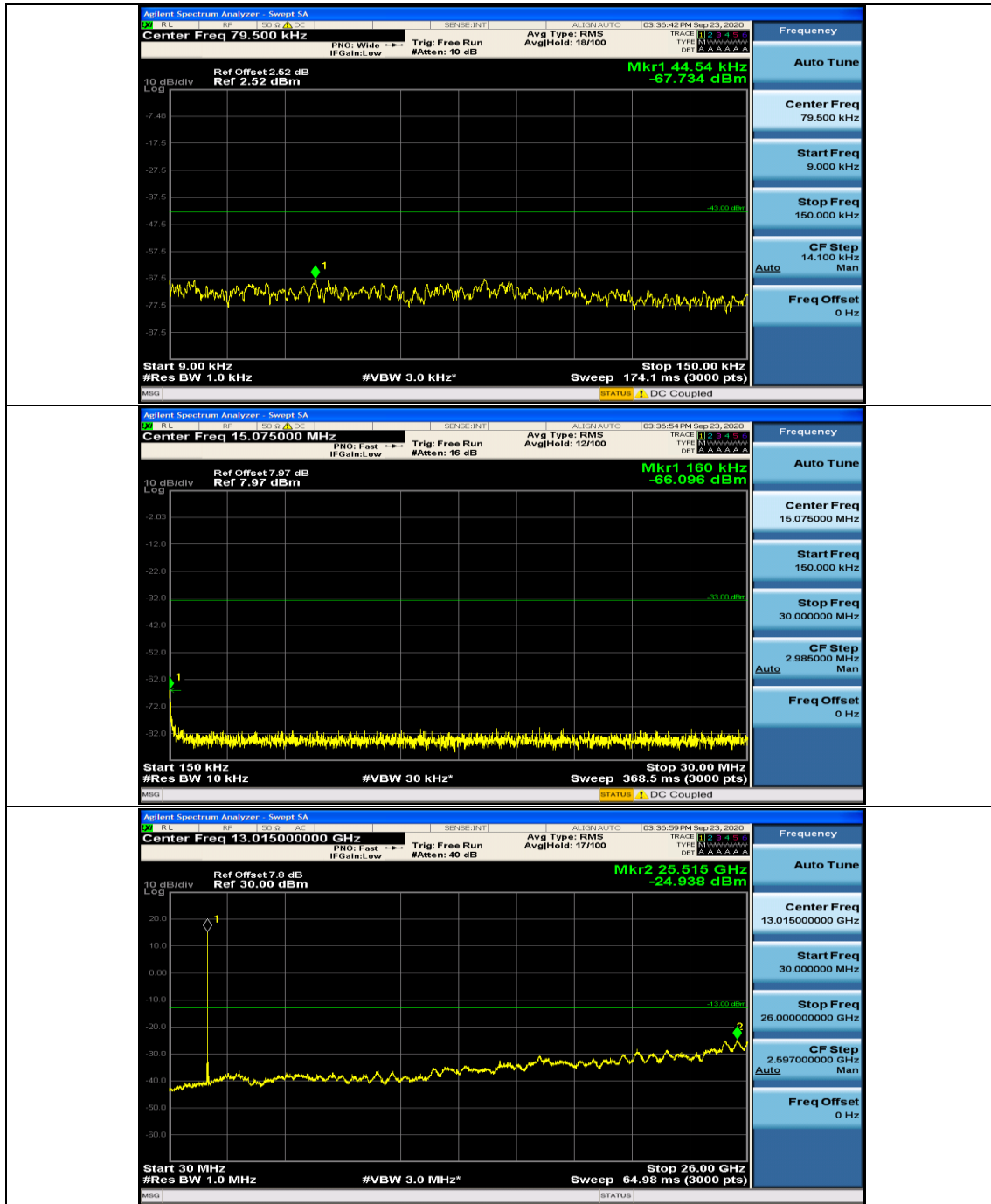


(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#0



(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#49





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	-28.48	-0.016649	± 2.5	PASS
		VN	TN	-7.28	-0.004256	± 2.5	PASS
		VH	TN	-7.27	-0.004084	± 2.5	PASS
	MCH	VL	TN	-6.61	-0.003766	± 2.5	PASS
		VN	TN	-10.71	-0.006105	± 2.5	PASS
		VH	TN	-4.63	-0.002619	± 2.5	PASS
	HCH	VL	TN	-0.39	-0.000226	± 2.5	PASS
		VN	TN	-8.10	-0.004550	± 2.5	PASS
		VH	TN	-6.79	-0.003972	± 2.5	PASS
16QAM	LCH	VL	TN	-4.81	-0.002810	± 2.5	PASS
		VN	TN	-2.42	-0.001413	± 2.5	PASS
		VH	TN	2.50	0.001463	± 2.5	PASS
	MCH	VL	TN	-5.05	-0.002952	± 2.5	PASS
		VN	TN	1.85	0.001051	± 2.5	PASS
		VH	TN	-2.49	-0.001455	± 2.5	PASS
	HCH	VL	TN	-3.92	-0.002291	± 2.5	PASS
		VN	TN	-1.95	-0.001093	± 2.5	PASS
		VH	TN	-2.16	-0.001263	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.43	0.000251	± 2.5	PASS
		VN	-20	-10.64	-0.006221	± 2.5	PASS
		VN	-10	-1.99	-0.001162	± 2.5	PASS
		VN	0	-8.21	-0.004800	± 2.5	PASS
		VN	10	-4.33	-0.002534	± 2.5	PASS
		VN	20	-1.97	-0.001154	± 2.5	PASS
		VN	30	2.98	0.001739	± 2.5	PASS
		VN	40	-5.88	-0.003437	± 2.5	PASS
		VN	50	-9.01	-0.005268	± 2.5	PASS
	MCH	VN	-30	-10.46	-0.005958	± 2.5	PASS
		VN	-20	-13.70	-0.007809	± 2.5	PASS
		VN	-10	-0.86	-0.000489	± 2.5	PASS
		VN	0	-11.46	-0.006529	± 2.5	PASS
		VN	10	-0.14	-0.000082	± 2.5	PASS
		VN	20	-6.67	-0.003798	± 2.5	PASS

		VN	30	-13.05	-0.007434	± 2.5	PASS
		VN	40	-9.73	-0.005543	± 2.5	PASS
		VN	50	-7.45	-0.004247	± 2.5	PASS
	HCH	VN	-30	1.63	0.000917	± 2.5	PASS
		VN	-20	-0.67	-0.000378	± 2.5	PASS
		VN	-10	-6.44	-0.003618	± 2.5	PASS
		VN	0	-2.72	-0.001528	± 2.5	PASS
		VN	10	-6.92	-0.003891	± 2.5	PASS
		VN	20	-0.63	-0.000354	± 2.5	PASS
		VN	30	-1.47	-0.000828	± 2.5	PASS
		VN	40	-1.99	-0.001118	± 2.5	PASS
		VN	50	-4.66	-0.002621	± 2.5	PASS
		VN	-30	-10.70	-0.006255	± 2.5	PASS
		VN	-20	-5.42	-0.003169	± 2.5	PASS
		VN	-10	-5.48	-0.003203	± 2.5	PASS
16QAM	LCH	VN	0	-2.06	-0.001204	± 2.5	PASS
		VN	10	-6.49	-0.003796	± 2.5	PASS
		VN	20	-2.35	-0.001371	± 2.5	PASS
		VN	30	-6.27	-0.003663	± 2.5	PASS
		VN	40	-1.76	-0.001029	± 2.5	PASS
		VN	50	-10.37	-0.006063	± 2.5	PASS
	MCH	VN	-30	-4.99	-0.002845	± 2.5	PASS
		VN	-20	-3.10	-0.001769	± 2.5	PASS
		VN	-10	-7.77	-0.004426	± 2.5	PASS
		VN	0	-7.15	-0.004076	± 2.5	PASS
		VN	10	-12.20	-0.006953	± 2.5	PASS
		VN	20	-8.17	-0.004654	± 2.5	PASS
		VN	30	-4.26	-0.002429	± 2.5	PASS
		VN	40	1.32	0.000750	± 2.5	PASS
		VN	50	3.13	0.001785	± 2.5	PASS
	HCH	VN	-30	-8.34	-0.004687	± 2.5	PASS
		VN	-20	-1.23	-0.000691	± 2.5	PASS
		VN	-10	-1.10	-0.000619	± 2.5	PASS
		VN	0	0.31	0.000177	± 2.5	PASS
		VN	10	-3.65	-0.002050	± 2.5	PASS
		VN	20	3.39	0.001905	± 2.5	PASS
		VN	30	-8.71	-0.004896	± 2.5	PASS
		VN	40	-3.56	-0.002002	± 2.5	PASS
		VN	50	-5.35	-0.003007	± 2.5	PASS