

Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#25



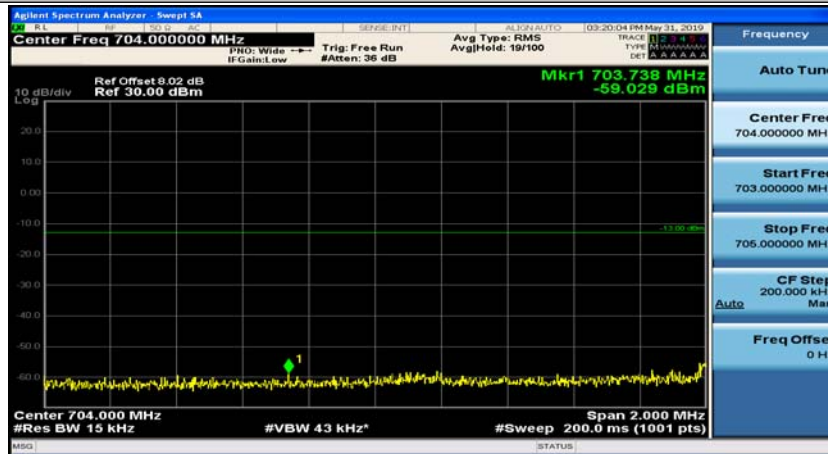
Channel Bandwidth: 10 MHz_HCH_QPSK_50RB#0



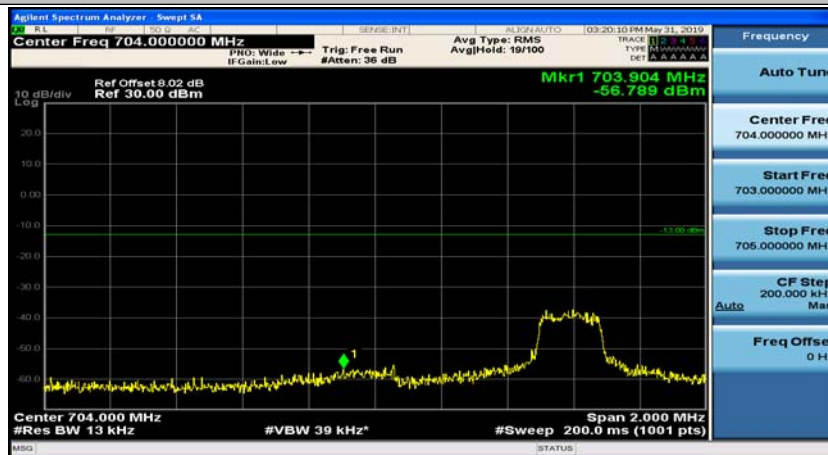
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0



Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#24



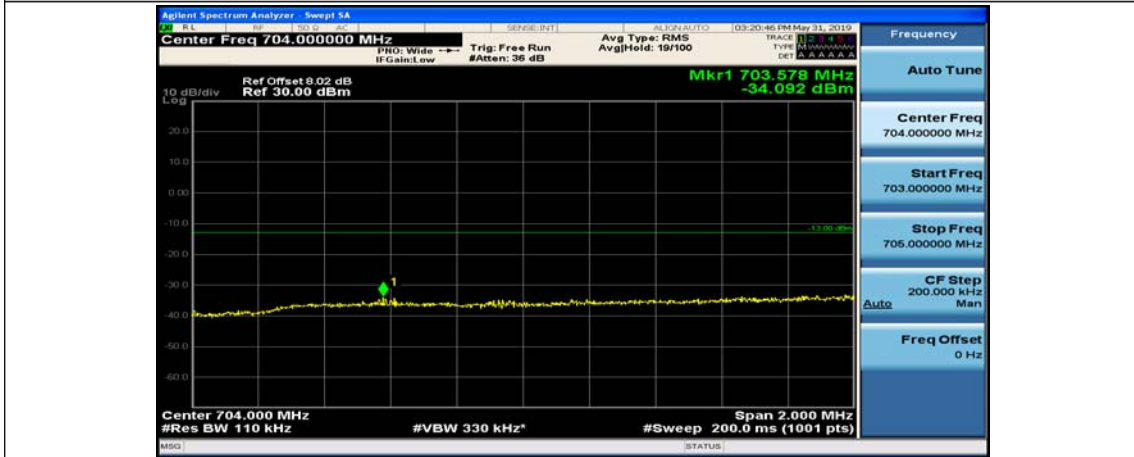
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#49



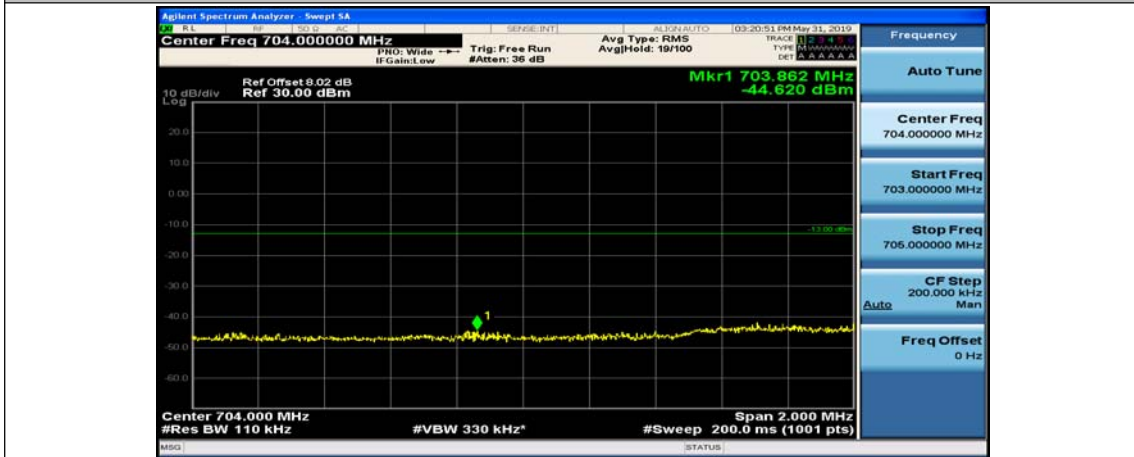
Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#0



Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#12



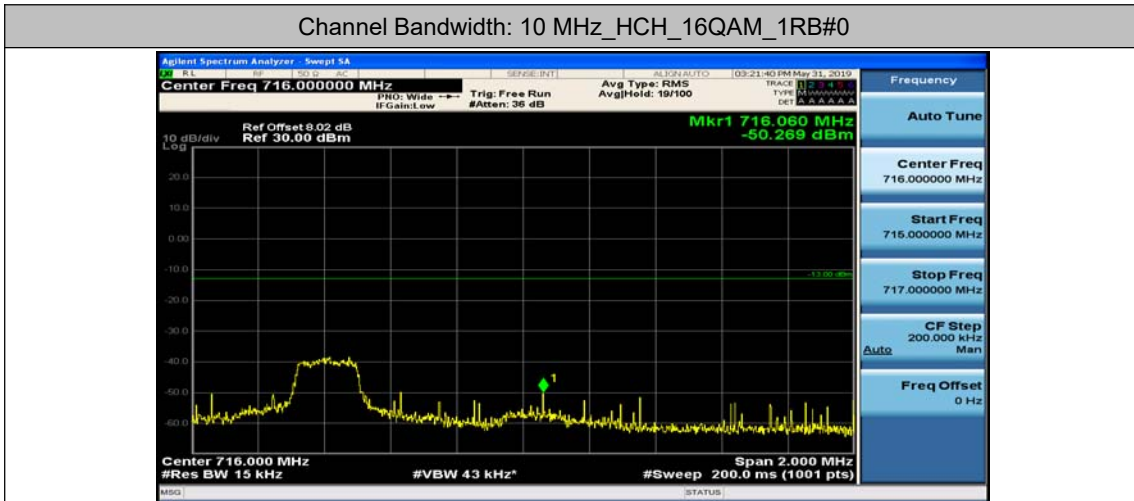
Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#25



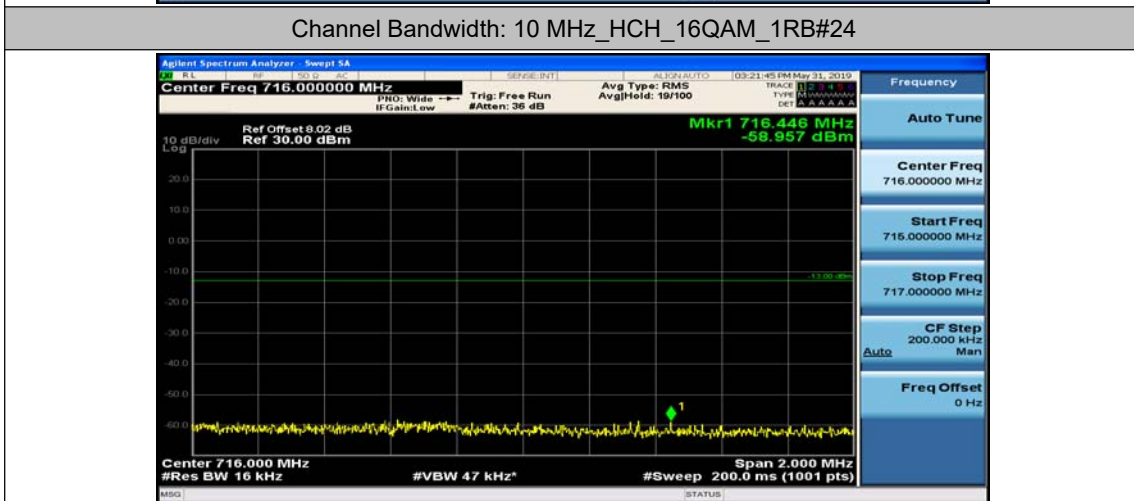
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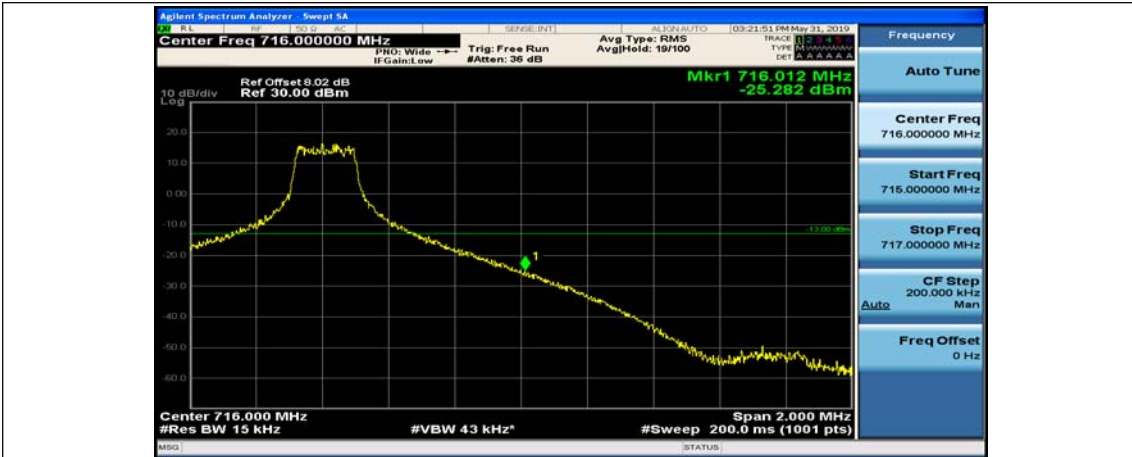
Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0



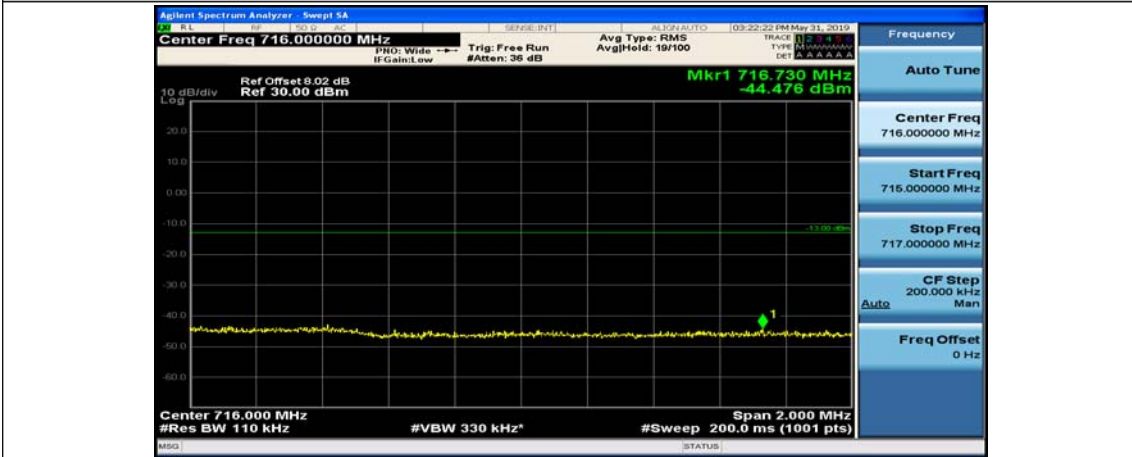
Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#24



Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#49



Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#0



Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#12



Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#25



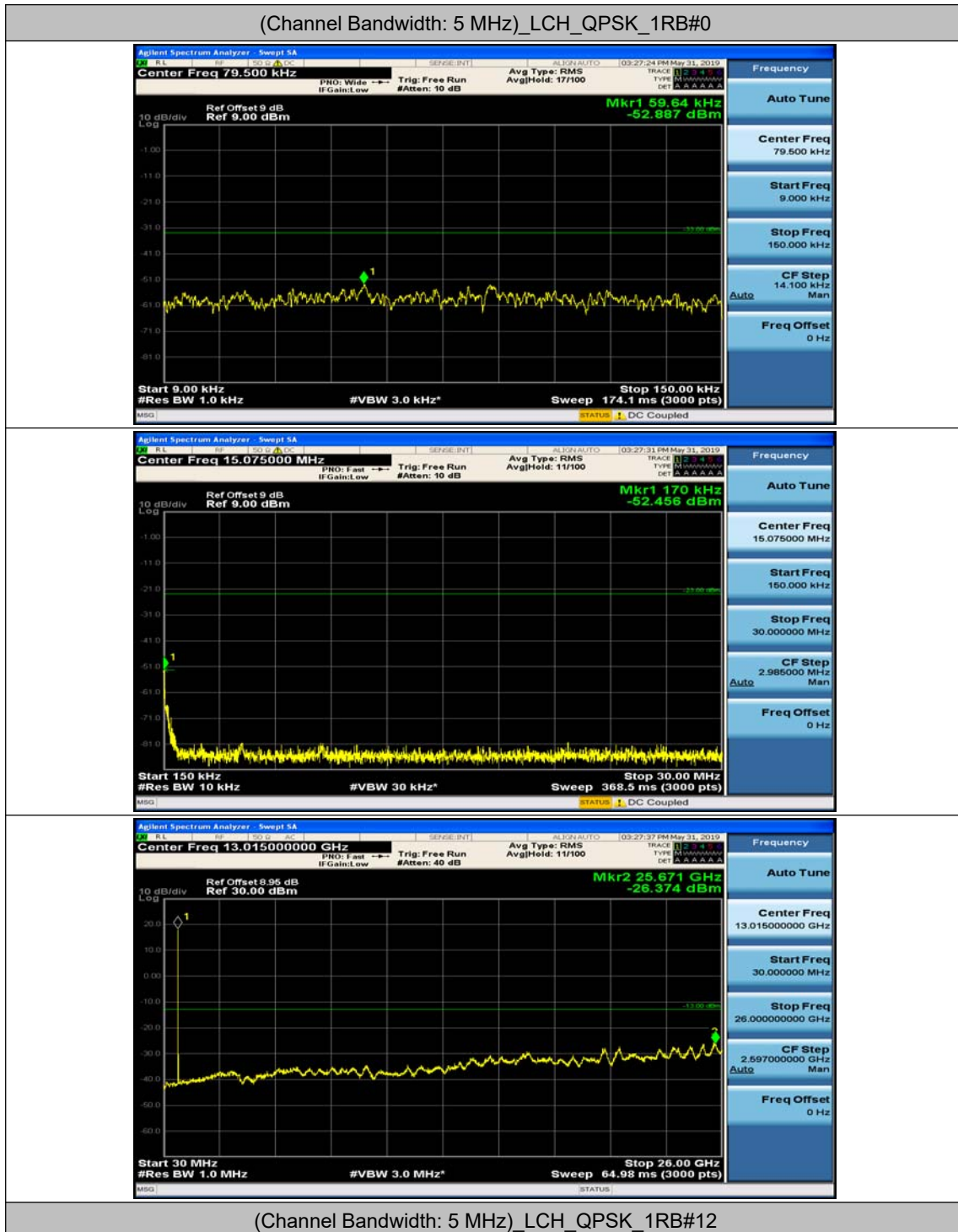
Channel Bandwidth: 10 MHz_HCH_16QAM_50RB#0

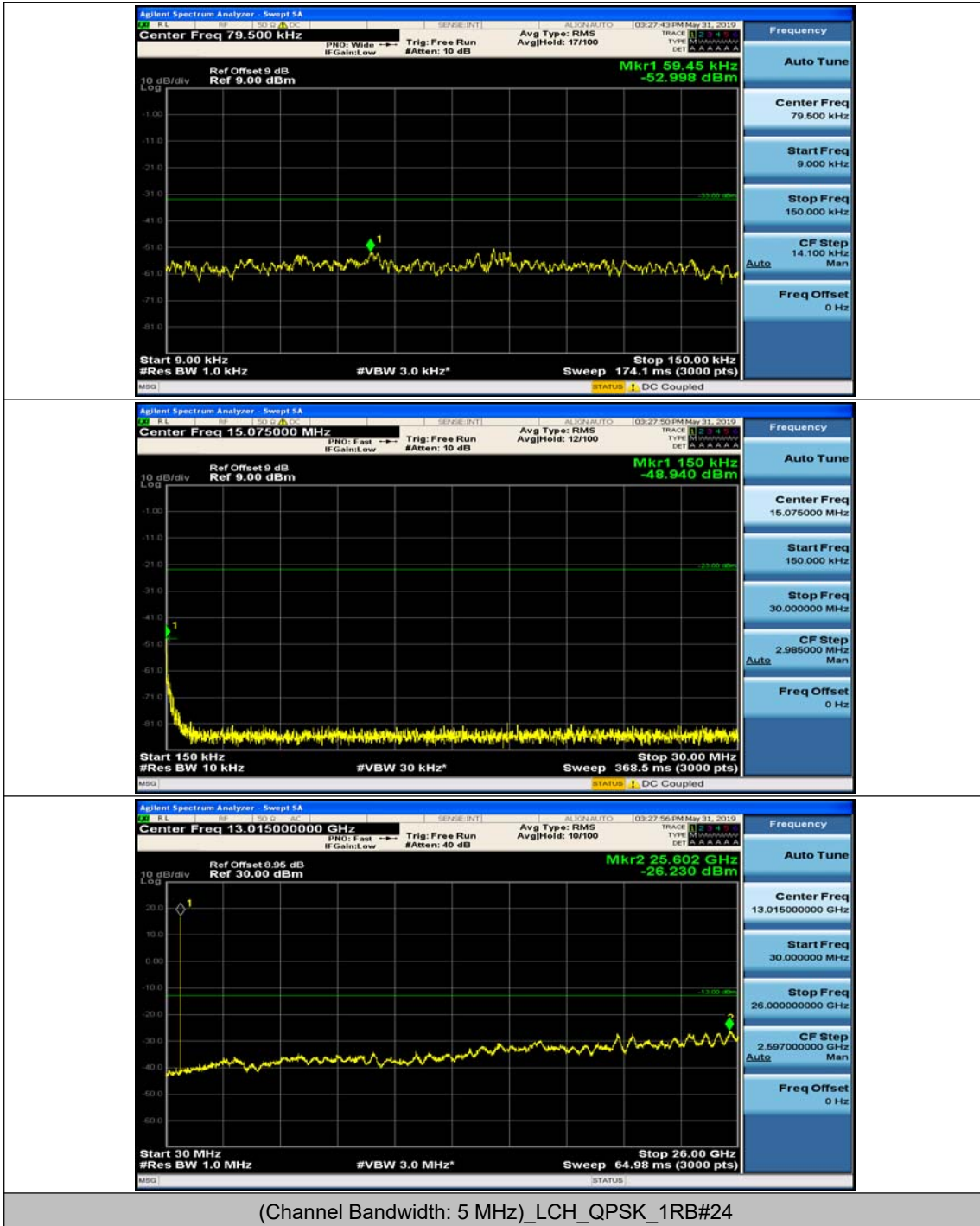


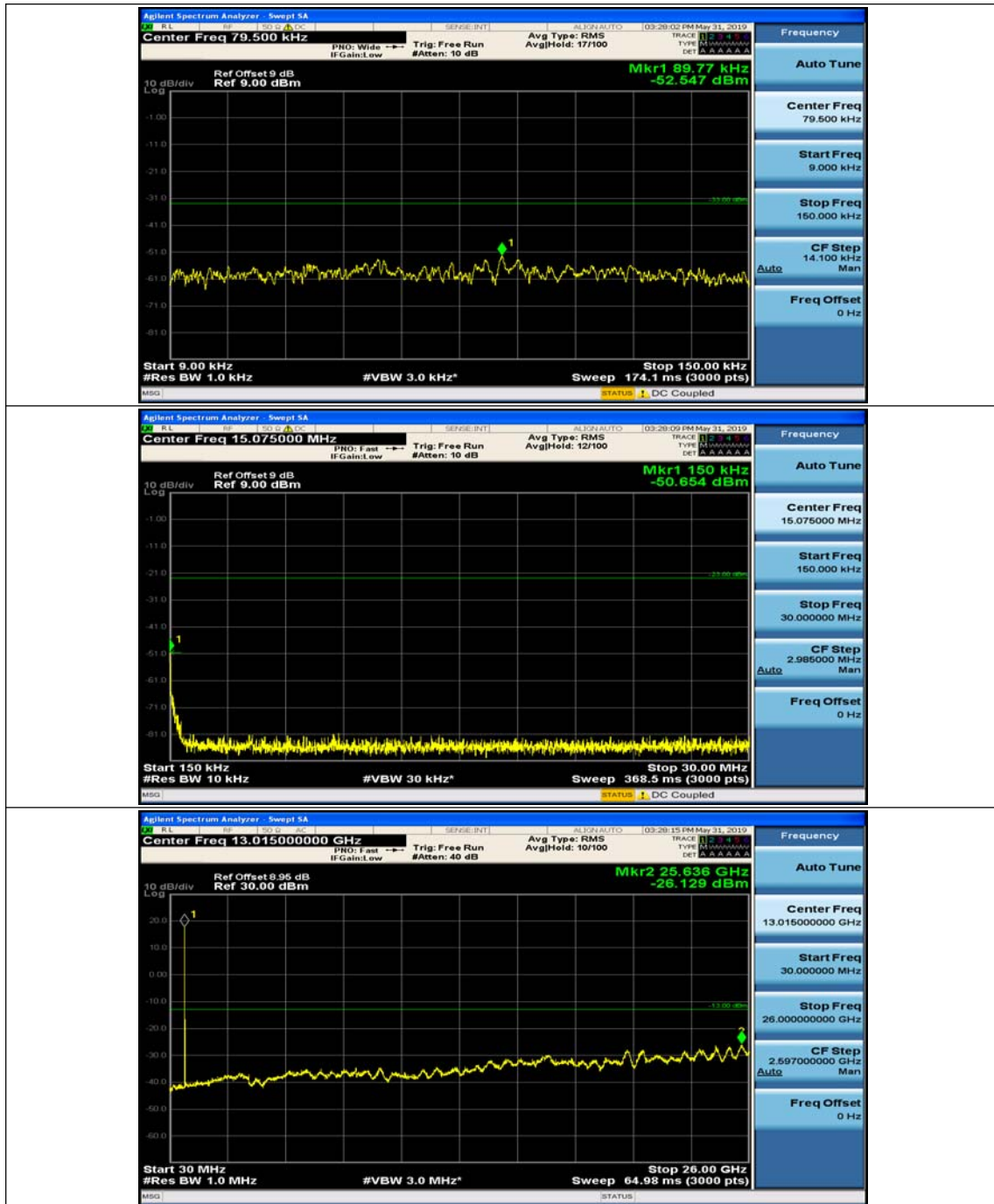
Appendix E: Conducted Spurious Emission

Test Graphs

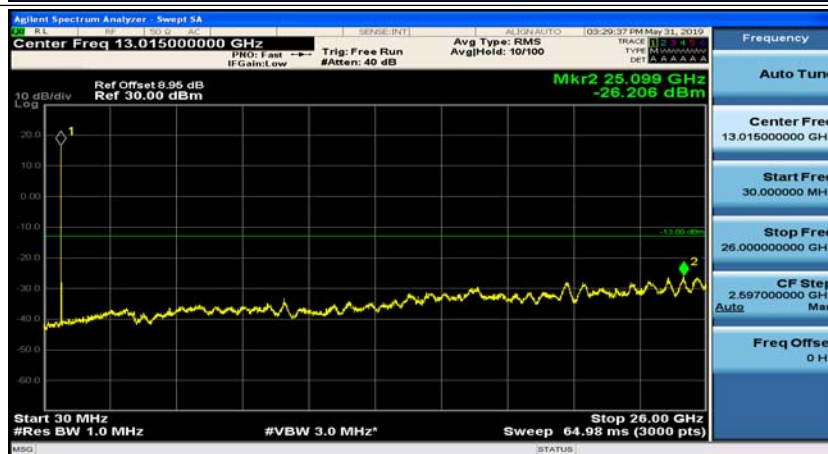
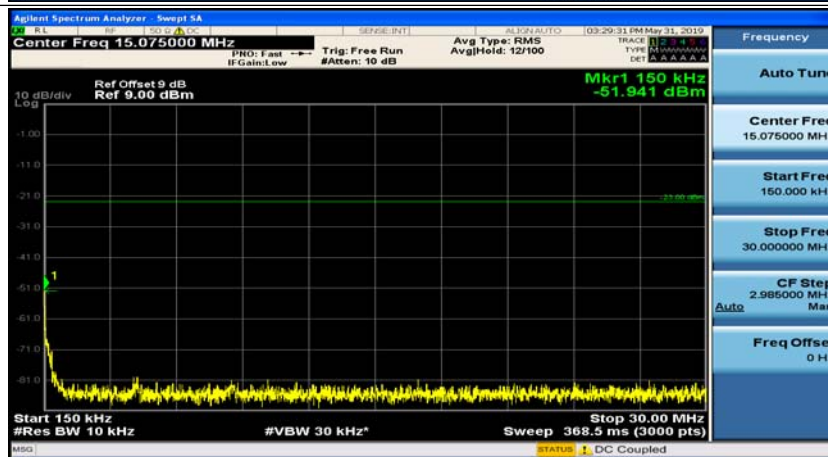
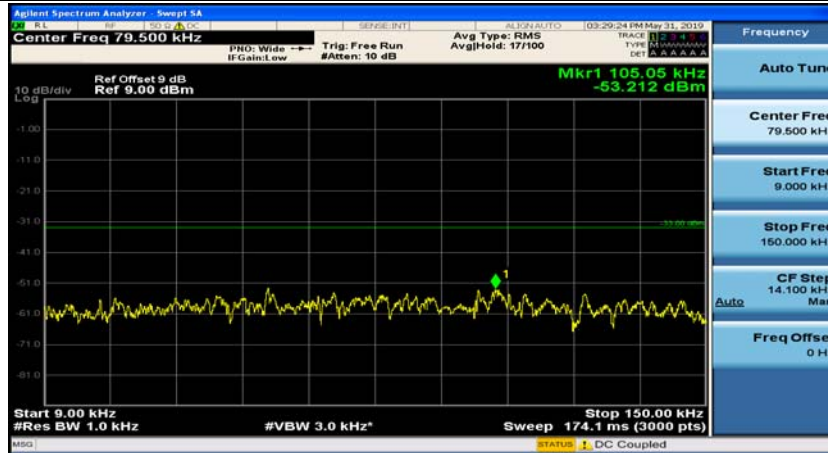
Channel Bandwidth: 5 MHz



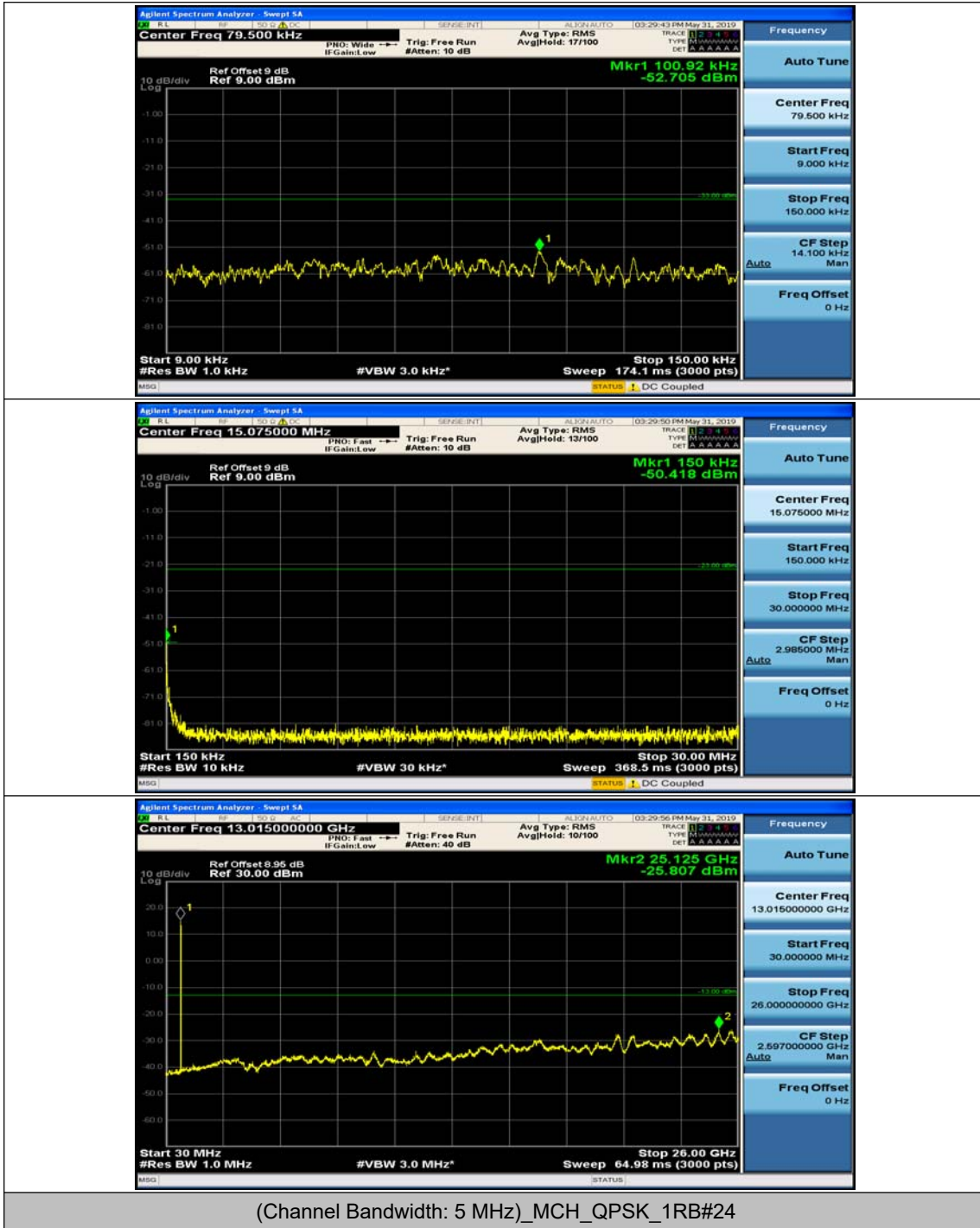


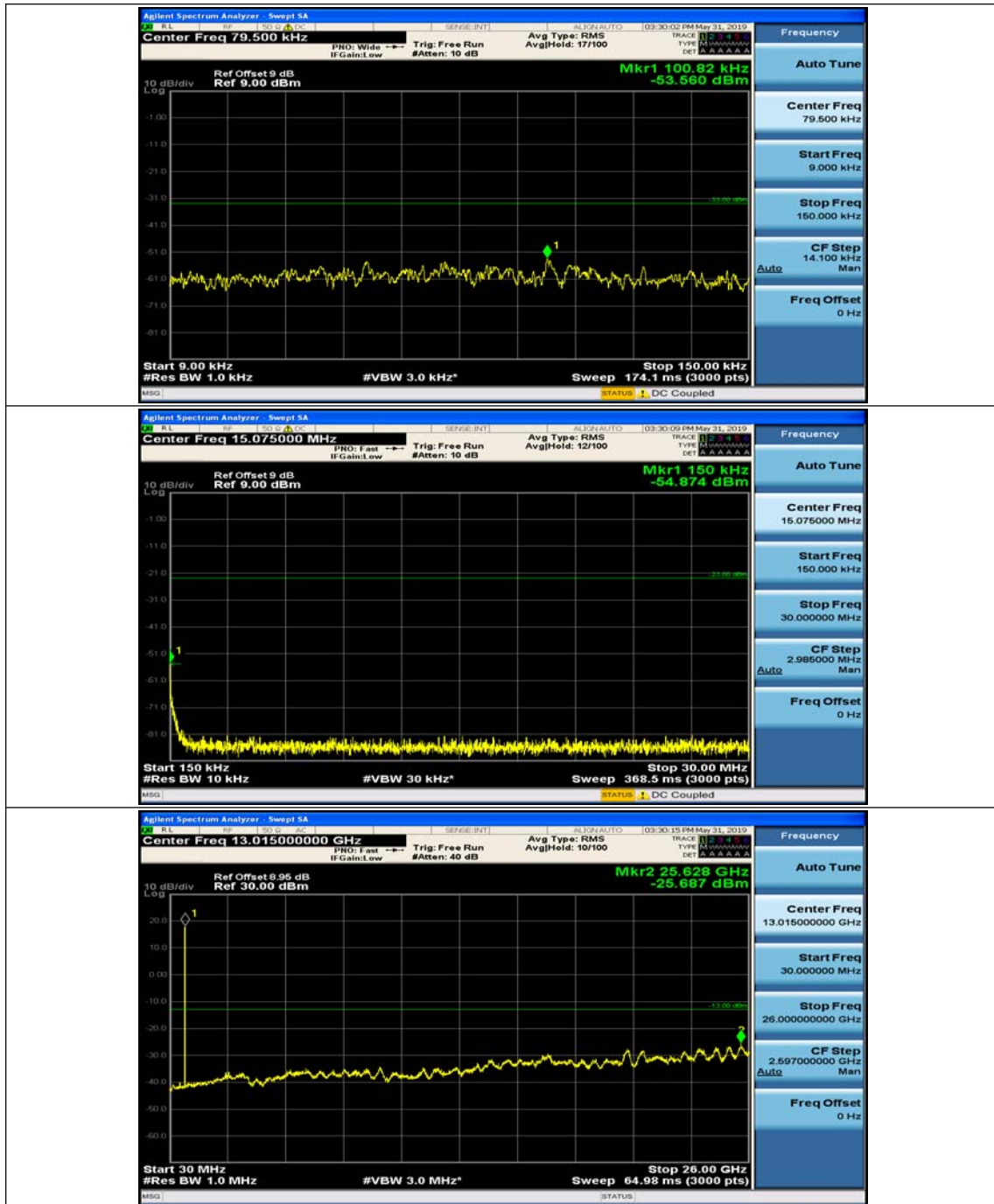


(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0

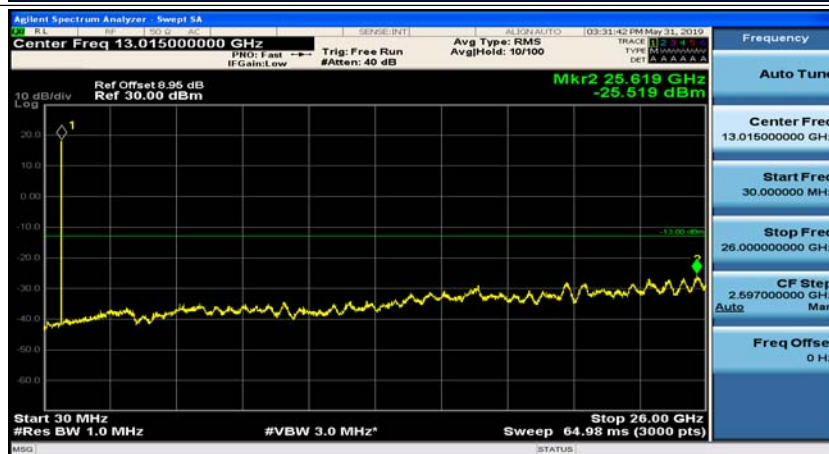
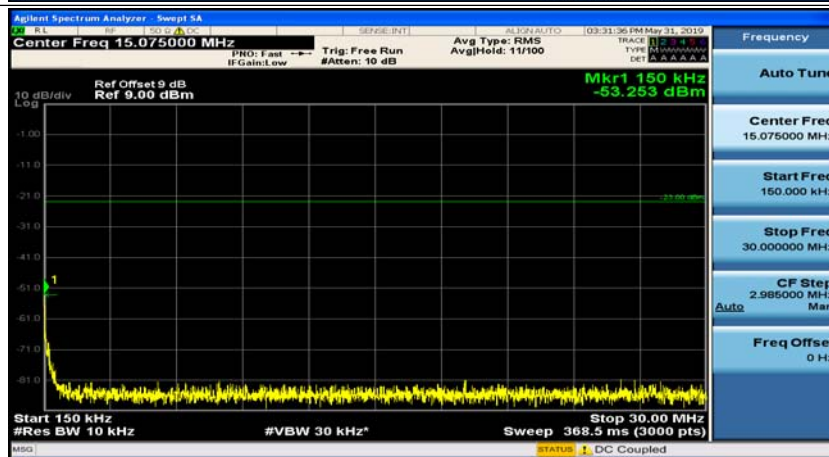
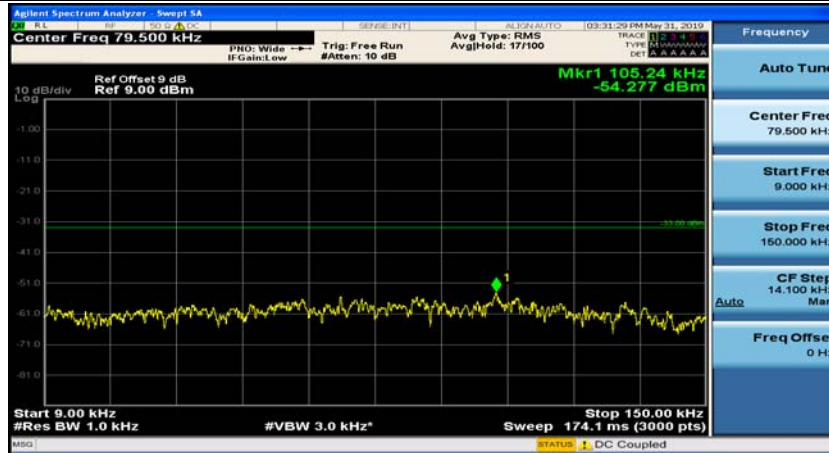


(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12

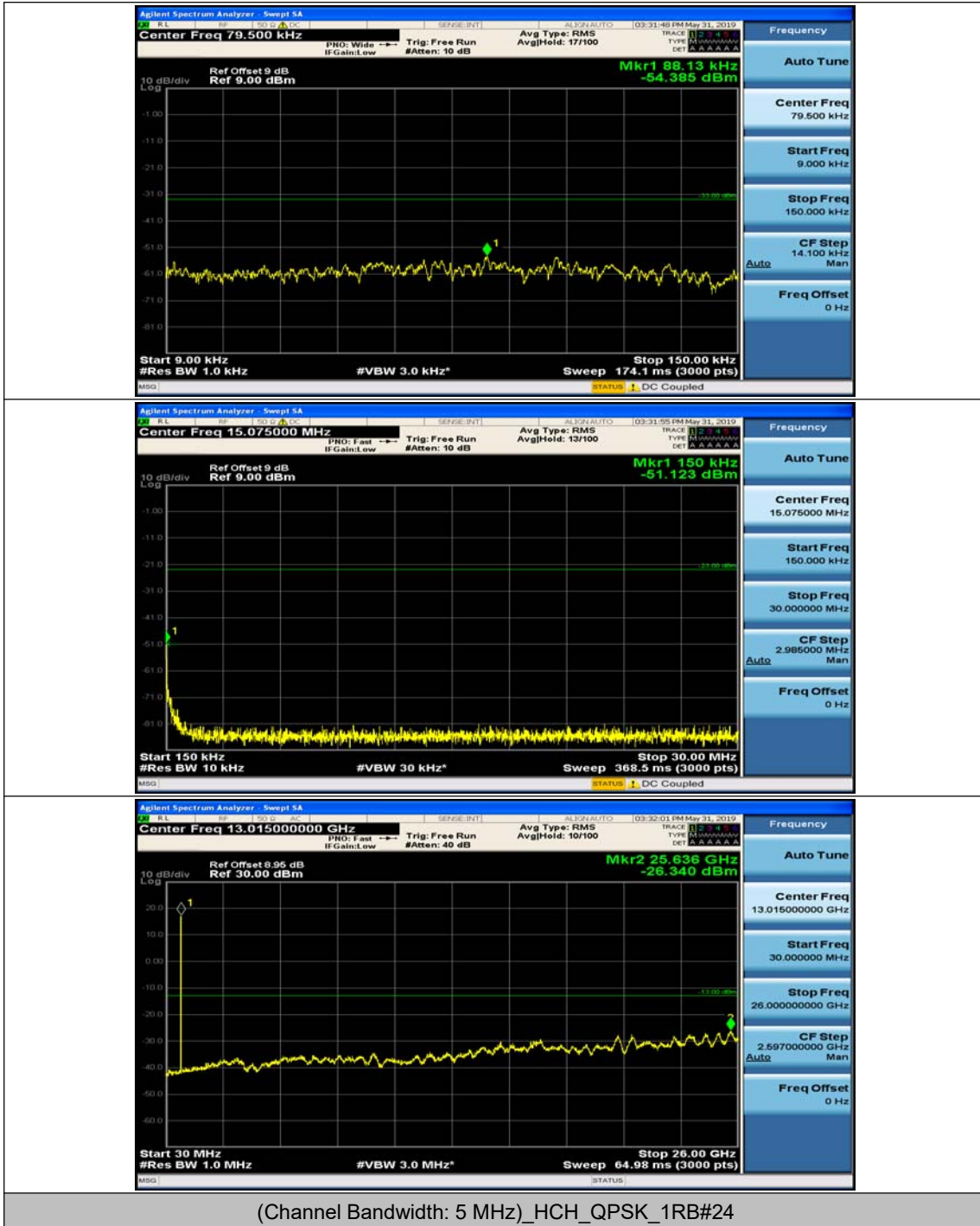


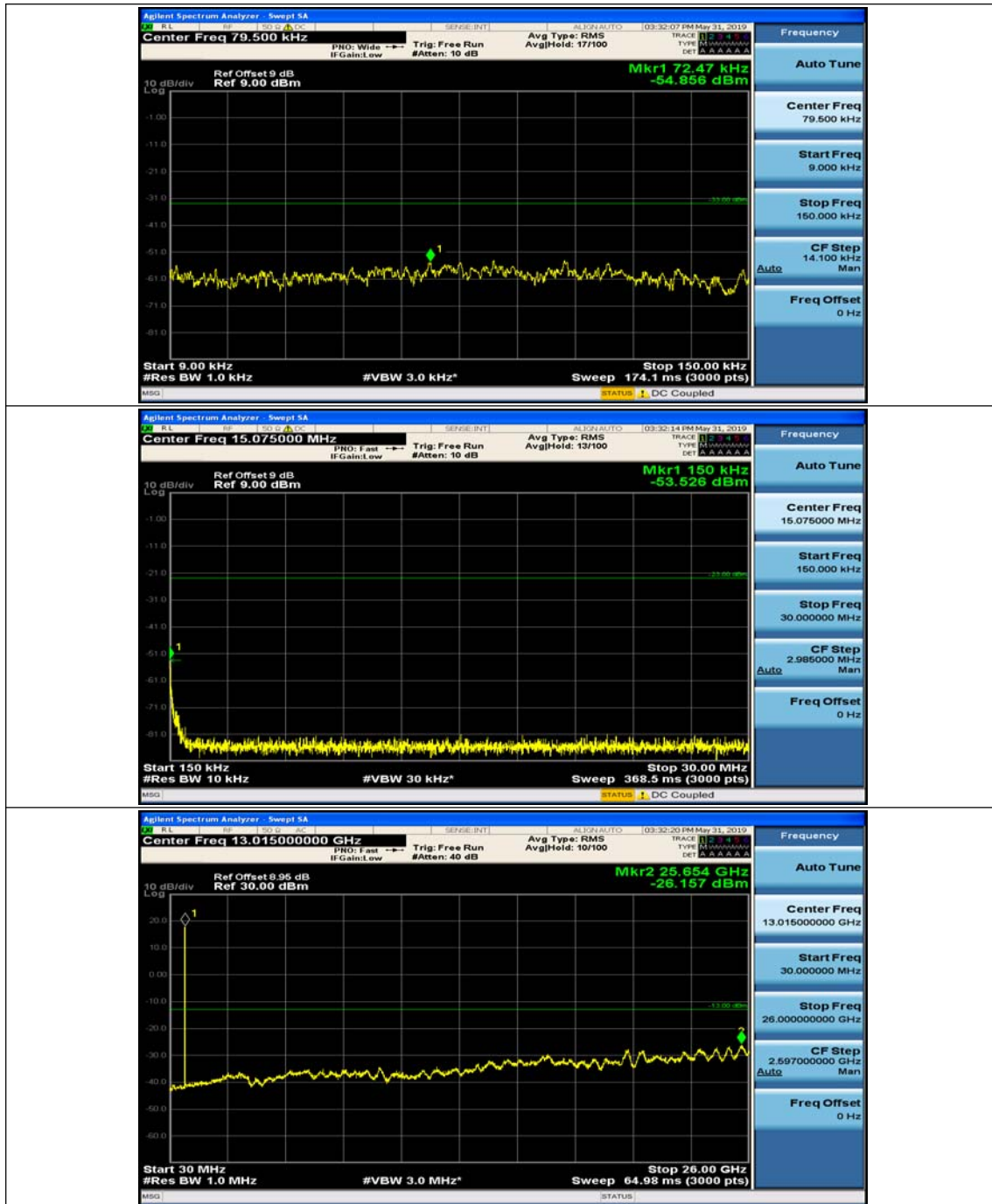


(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0

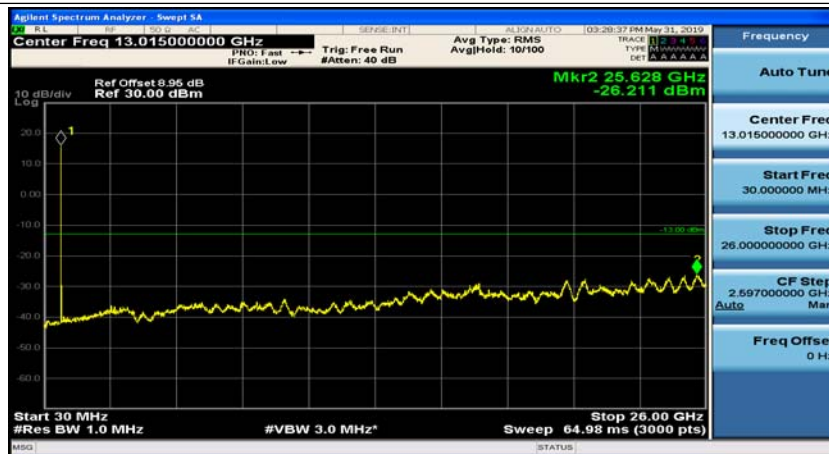
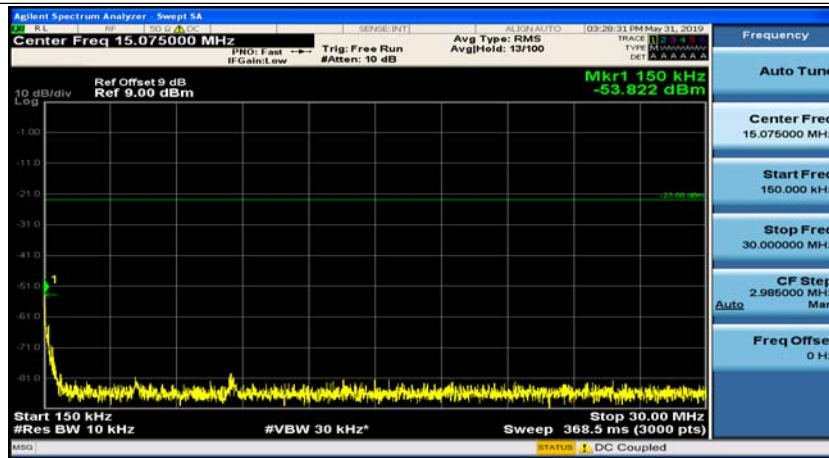
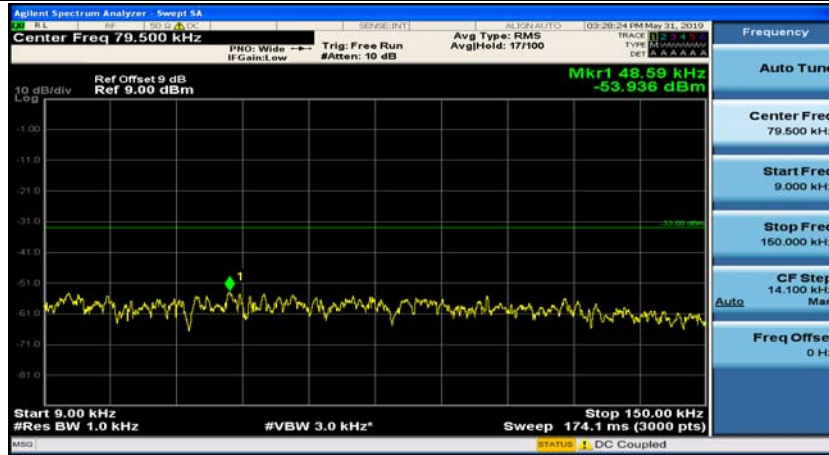


(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12

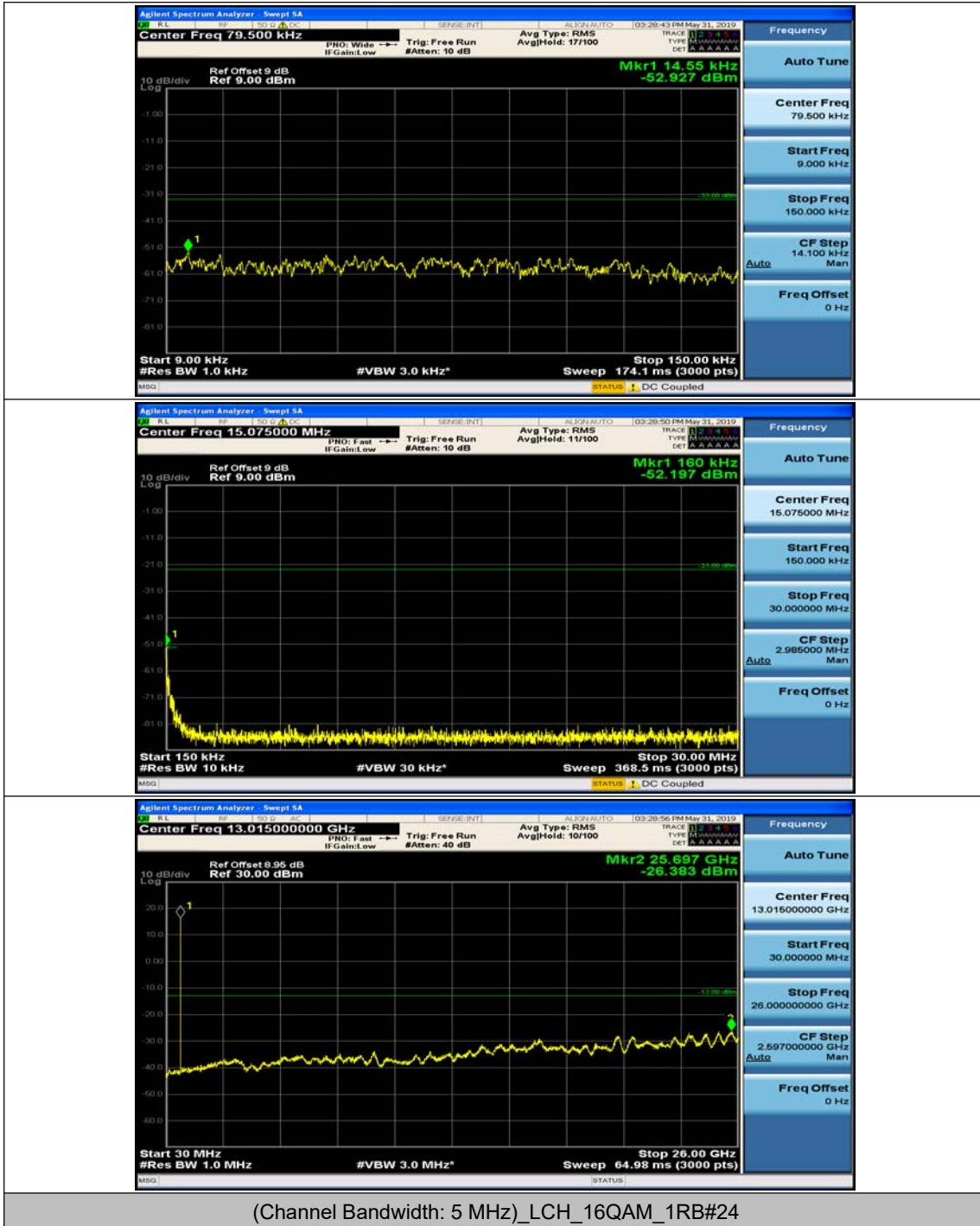


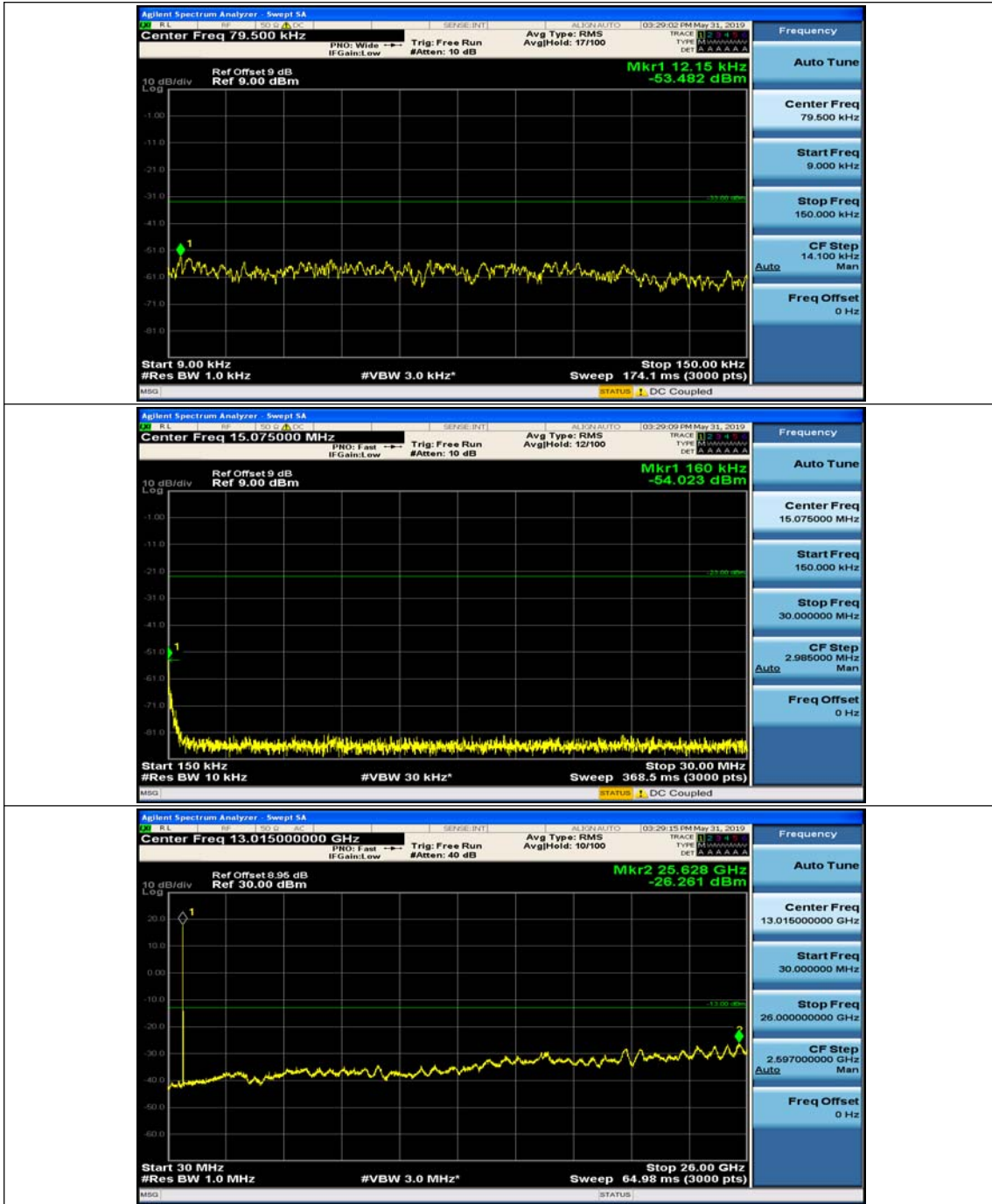


(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0

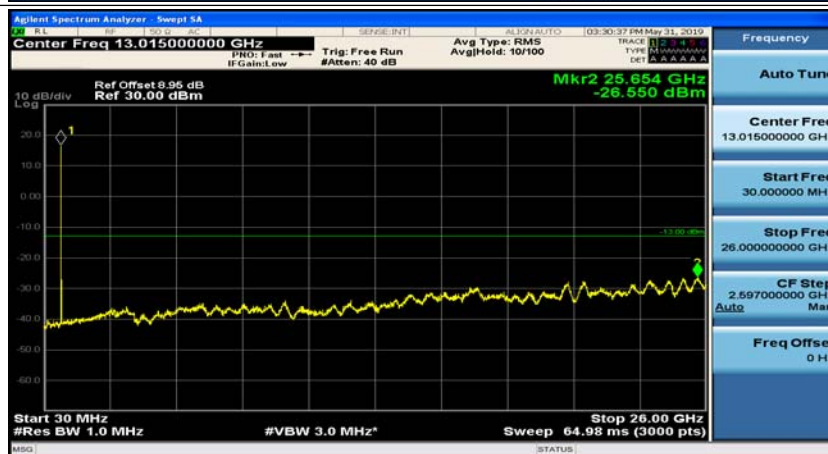
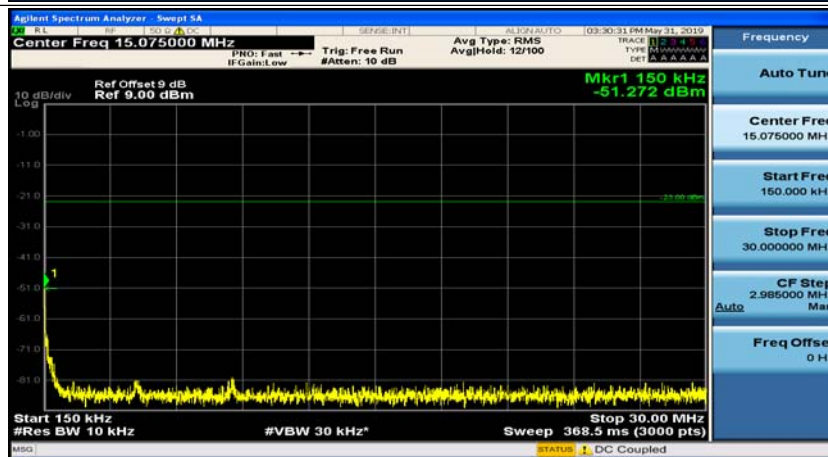
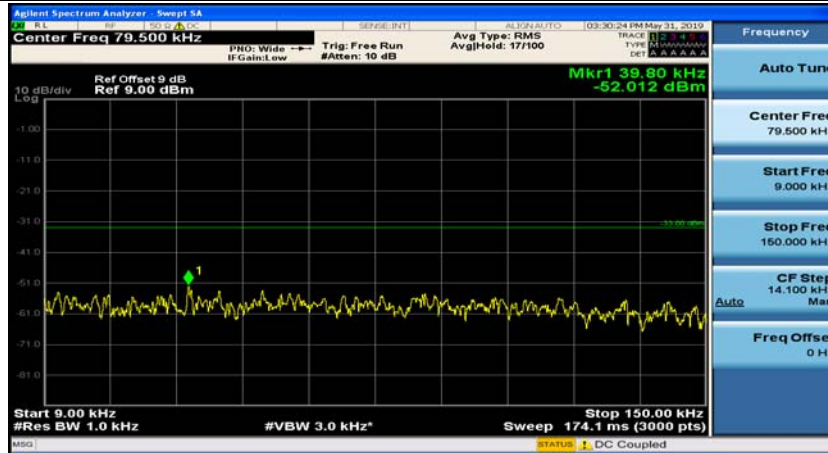


(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12

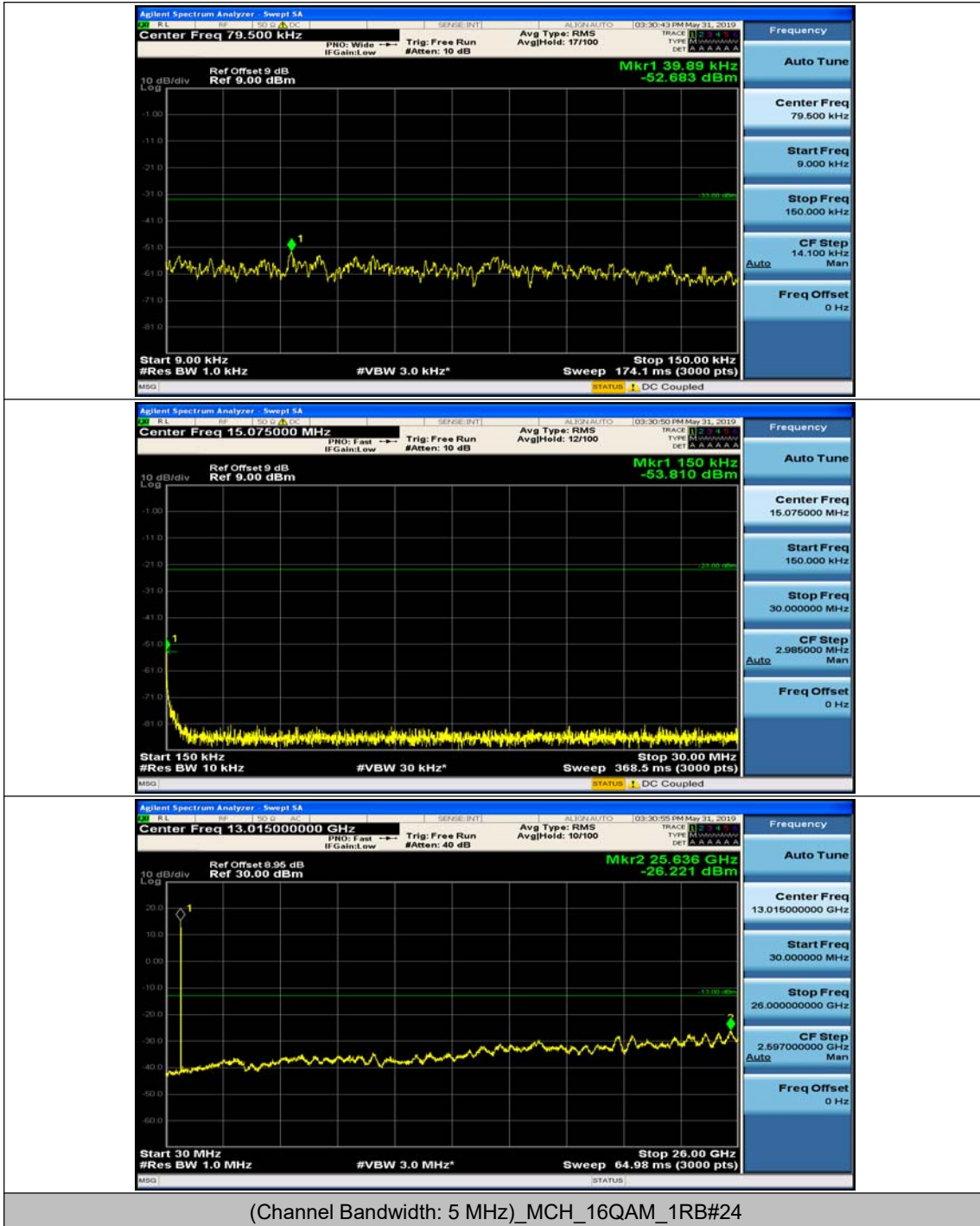


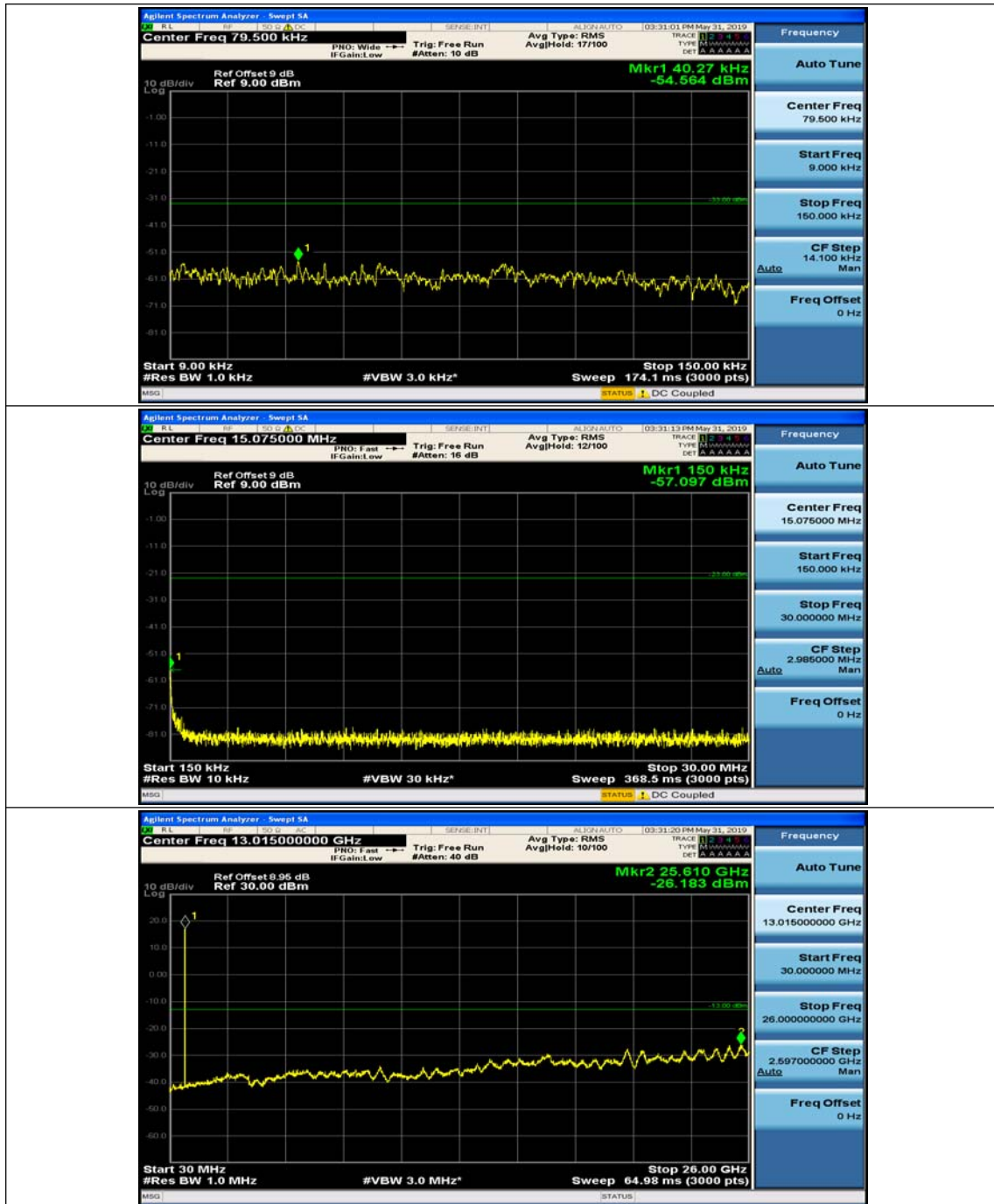


(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0

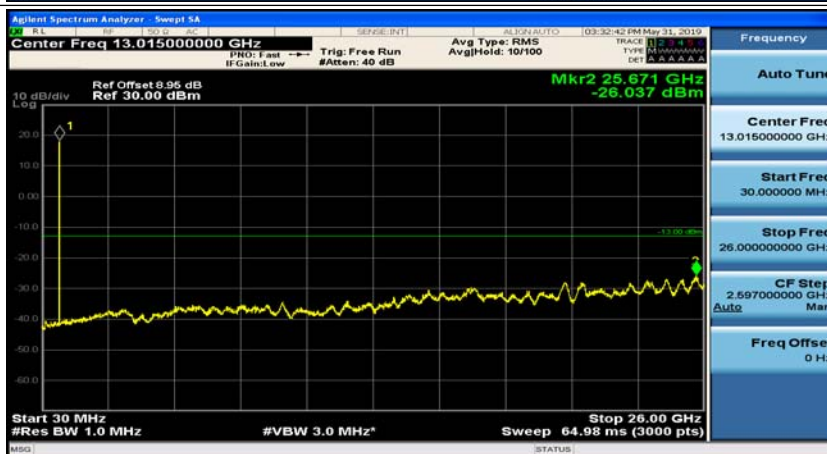
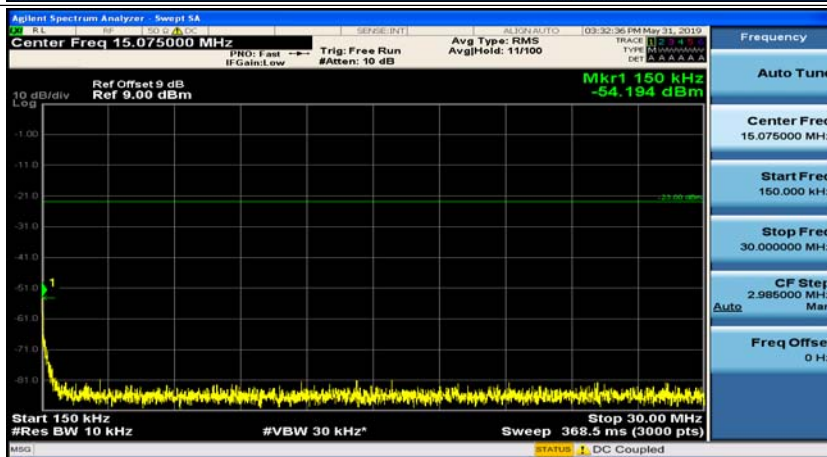
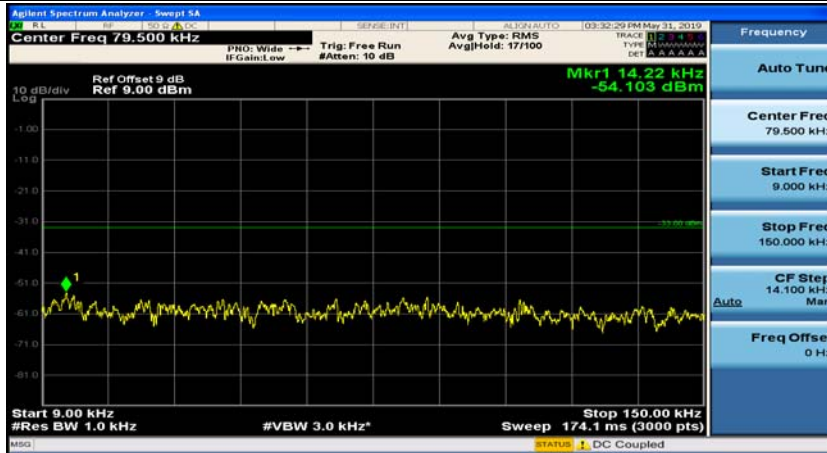


(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#12

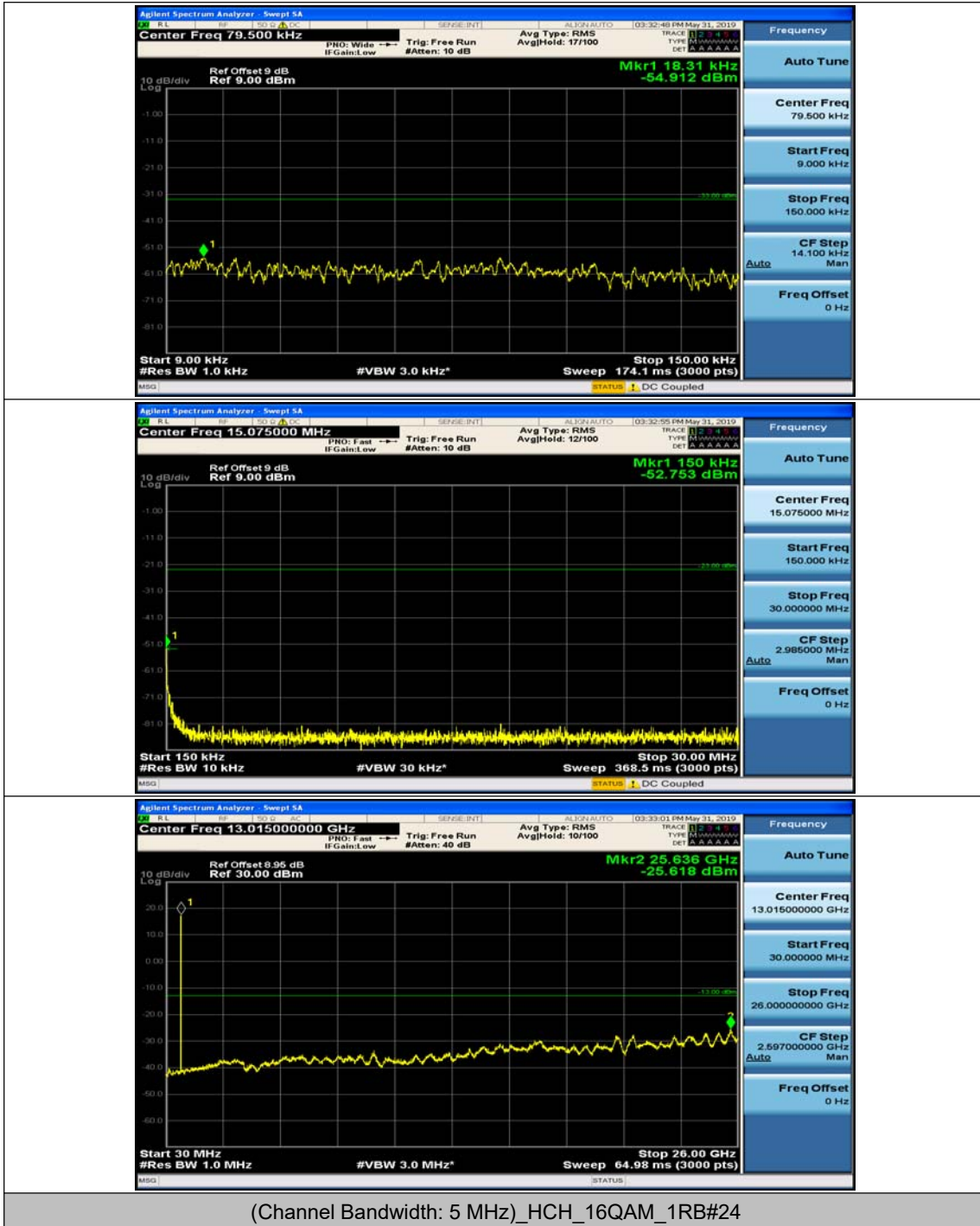


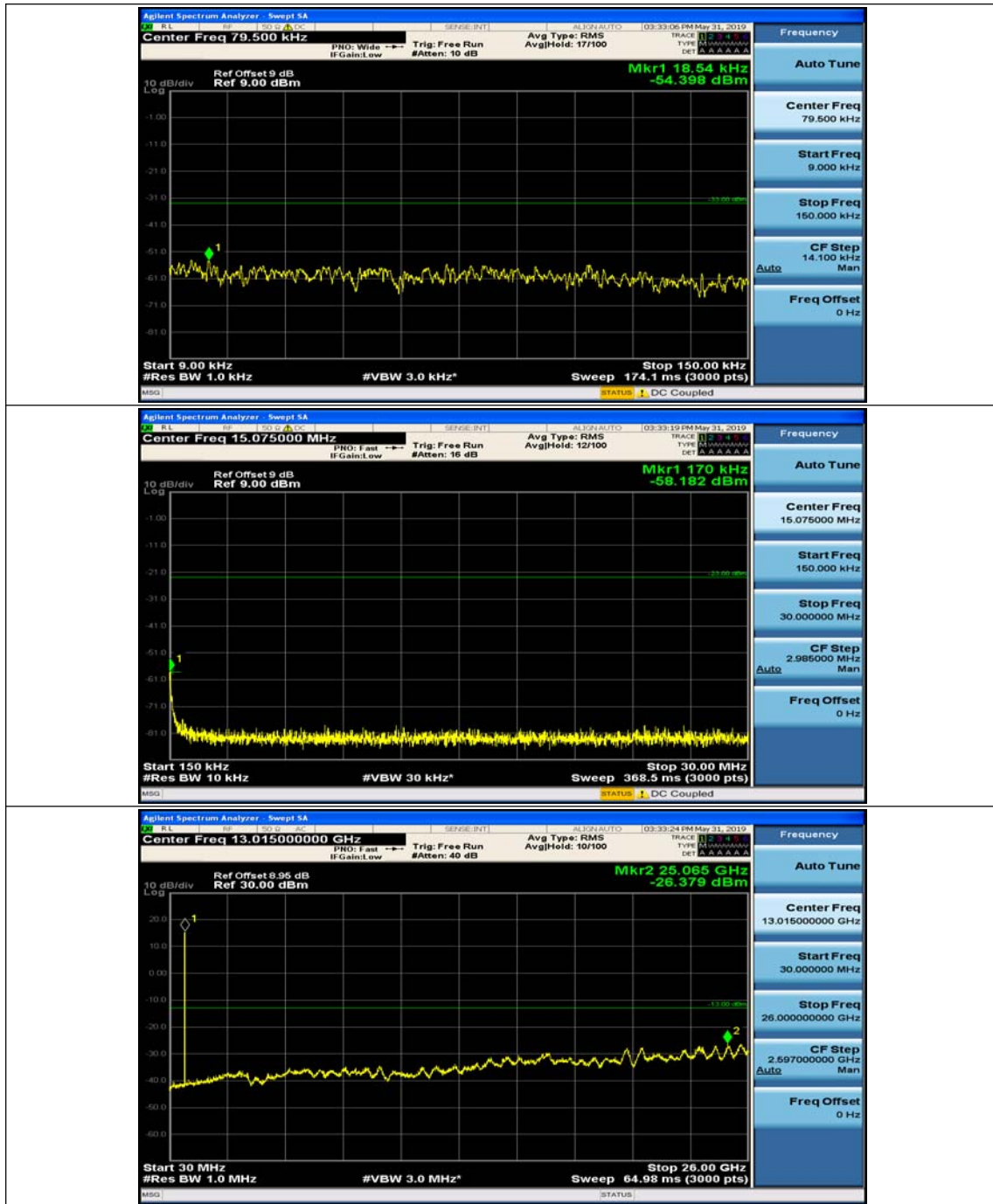


(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0

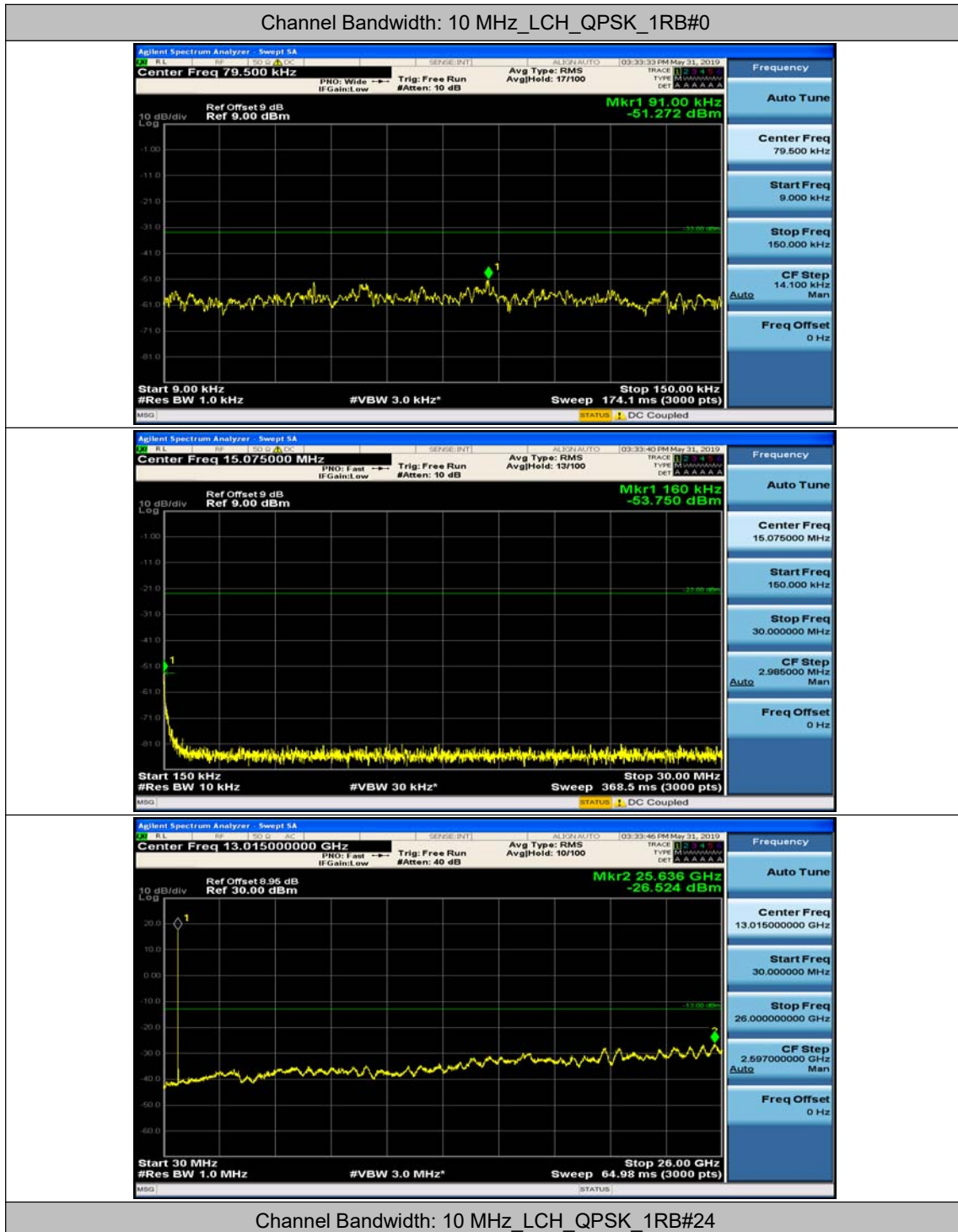


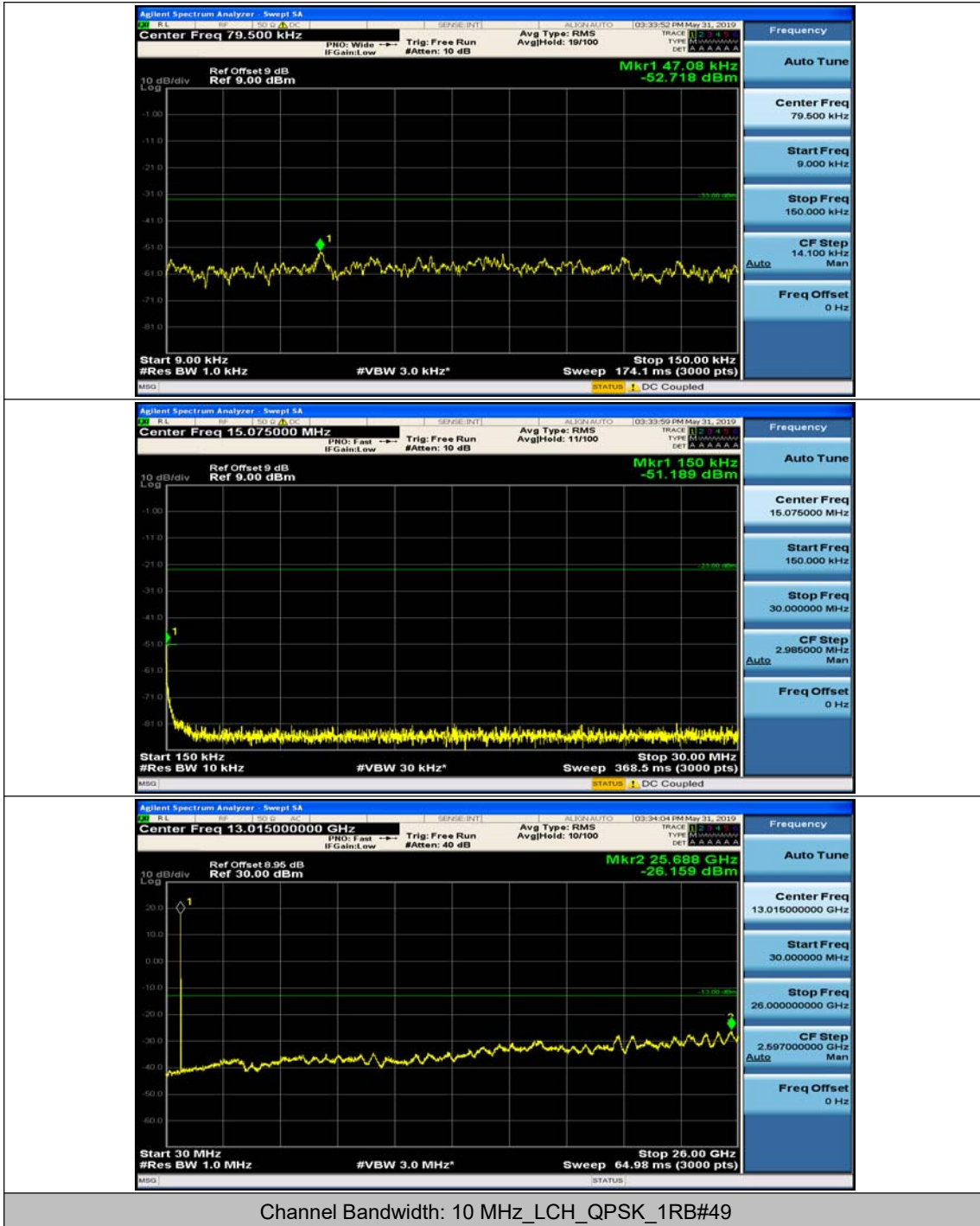
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12

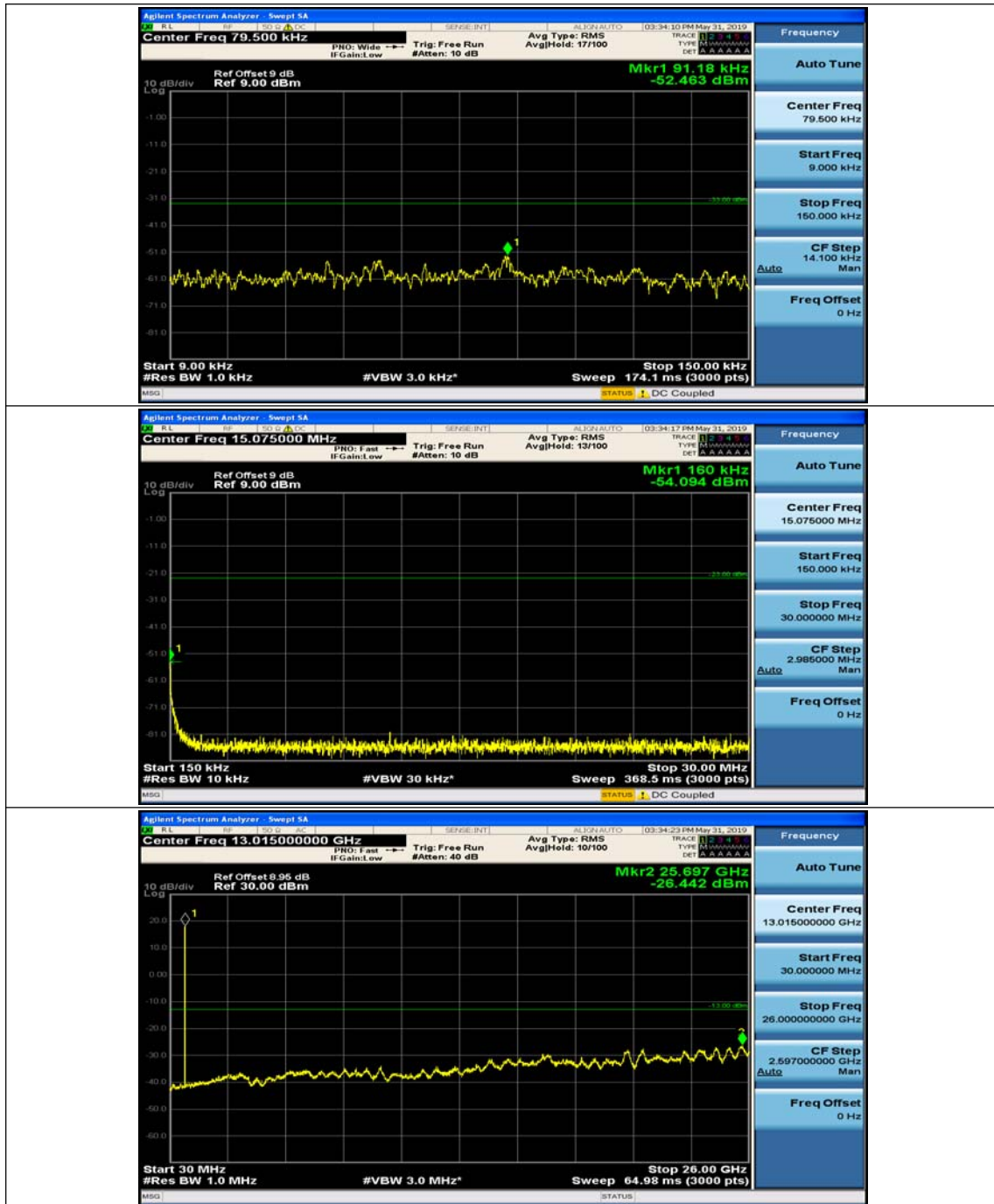




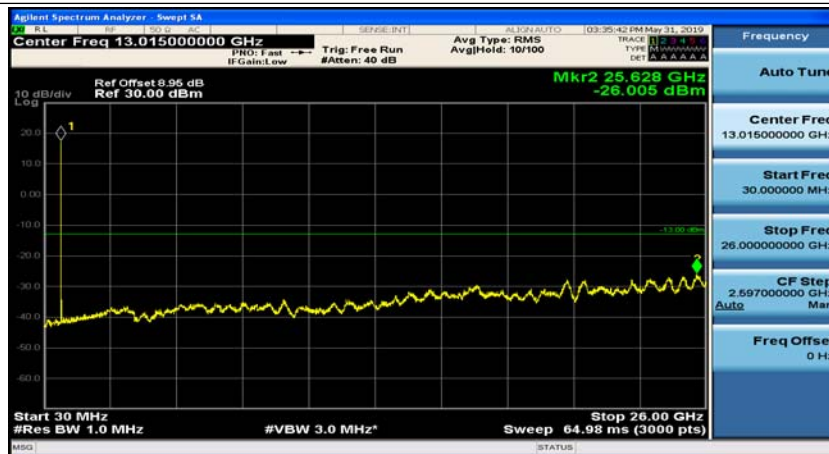
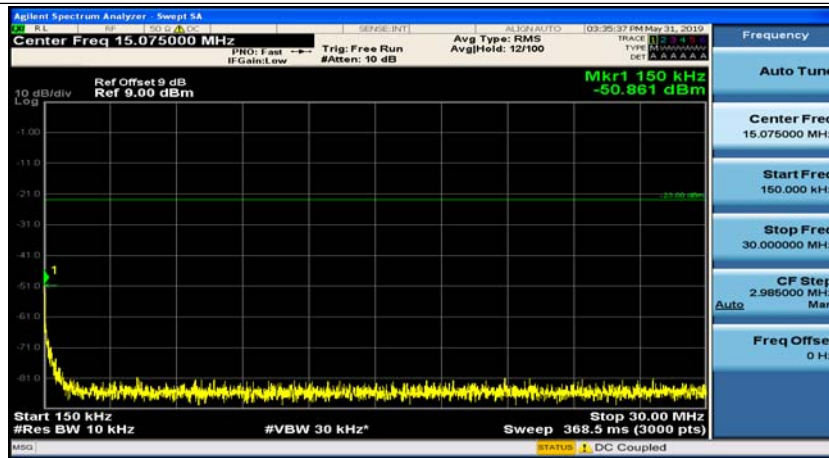
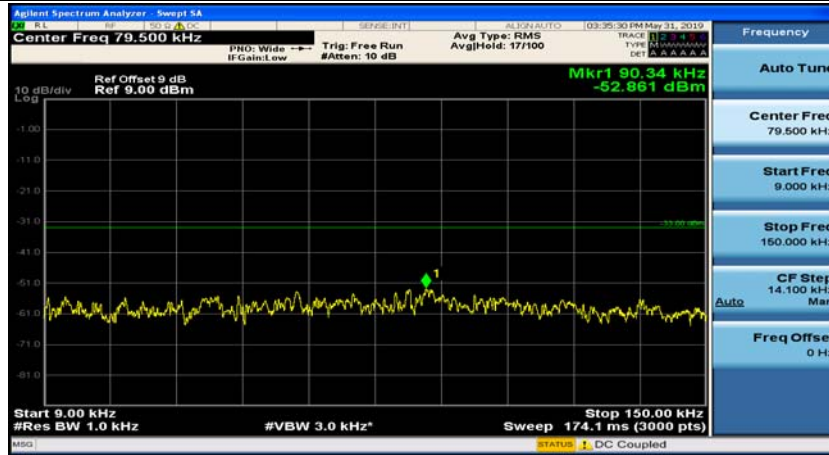
Channel Bandwidth: 10 MHz



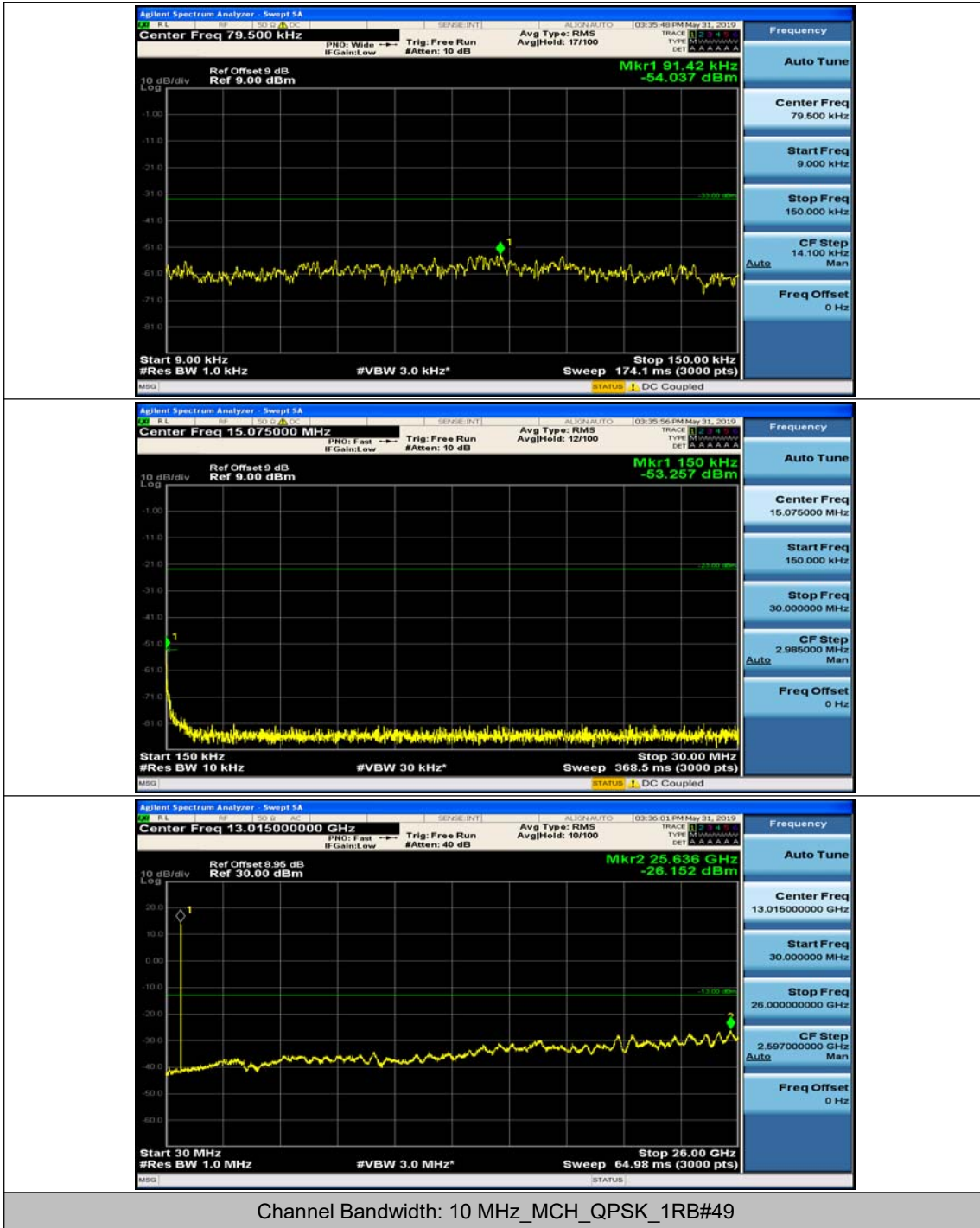


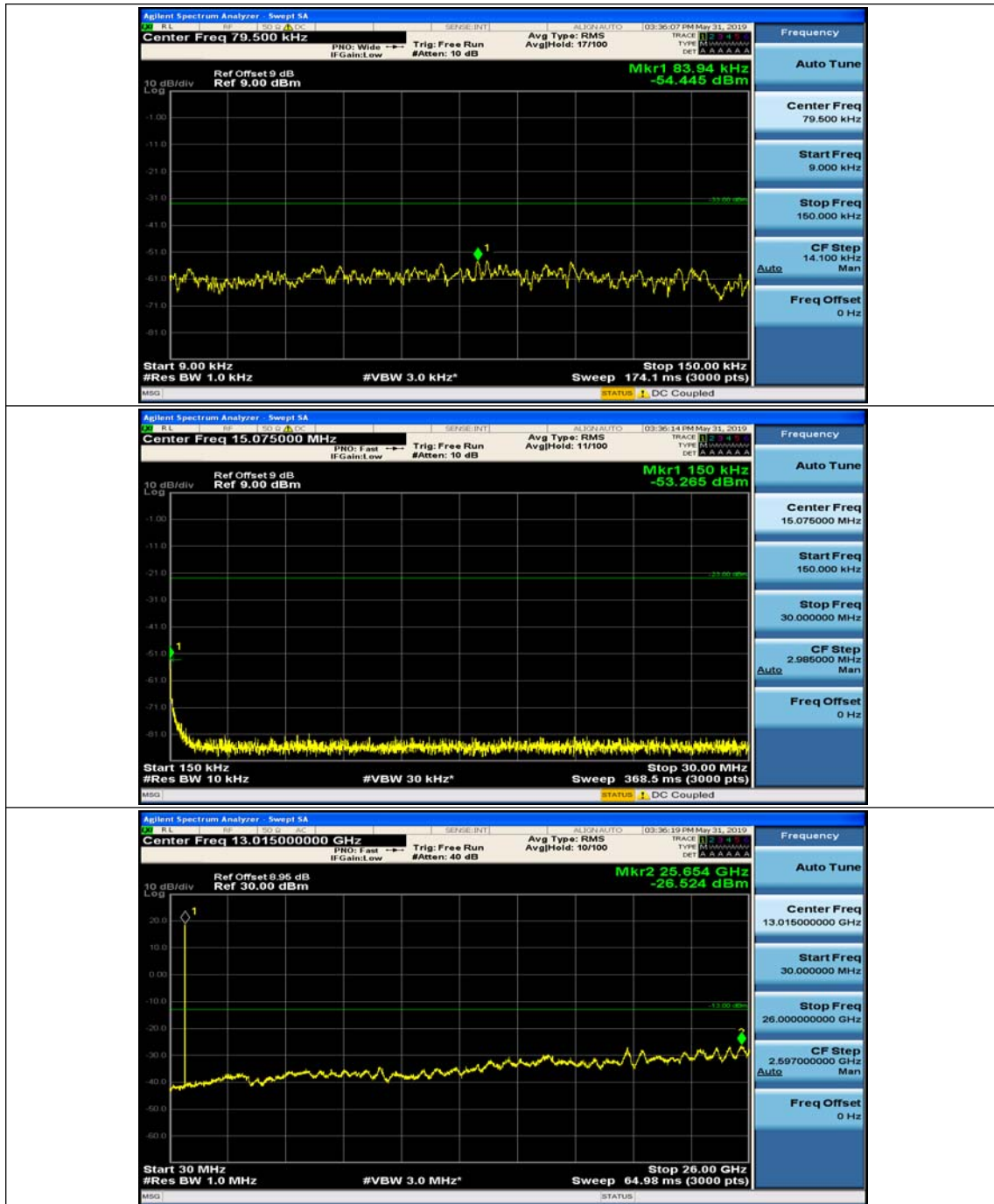


Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#0

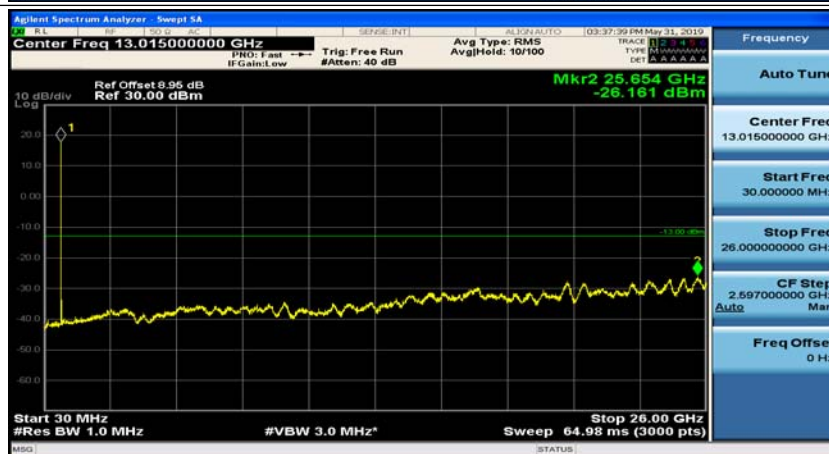
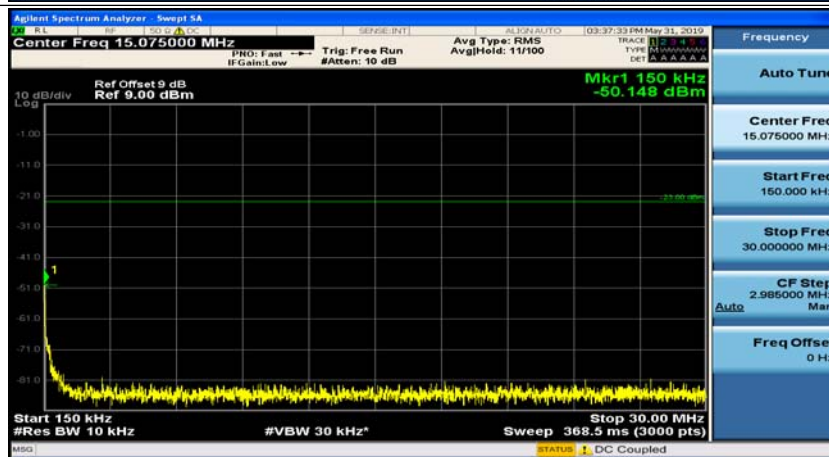
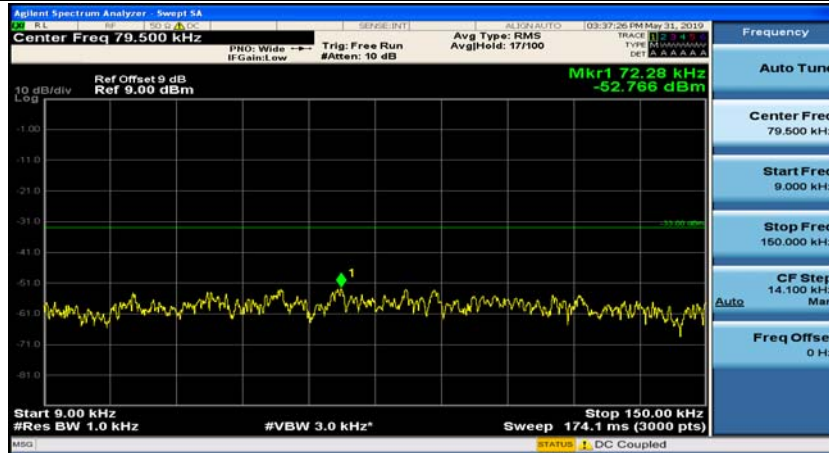


Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#24

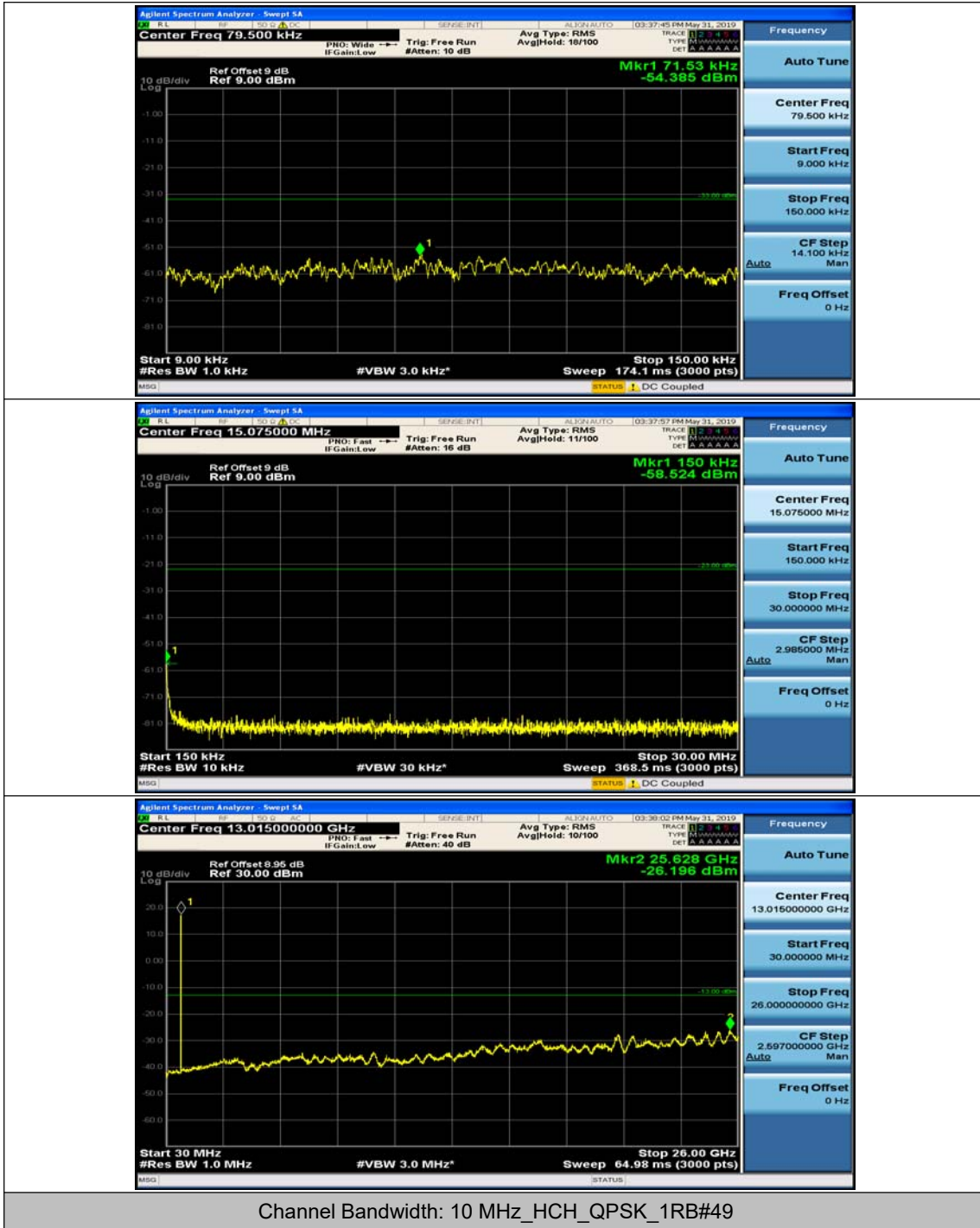


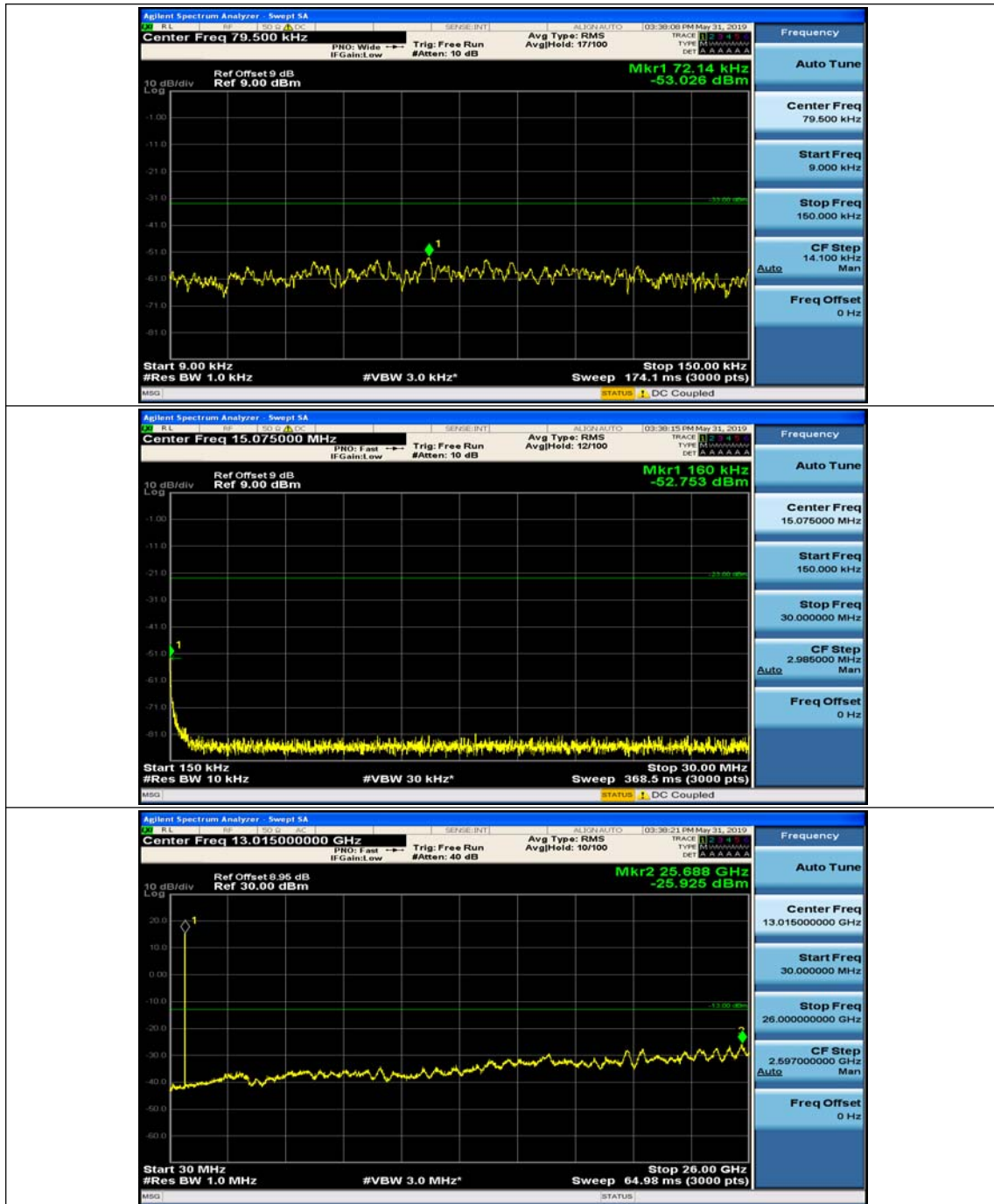


Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#0

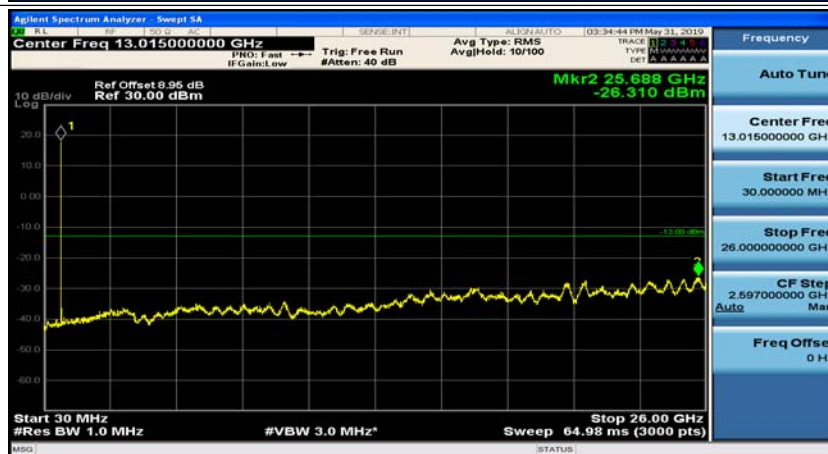
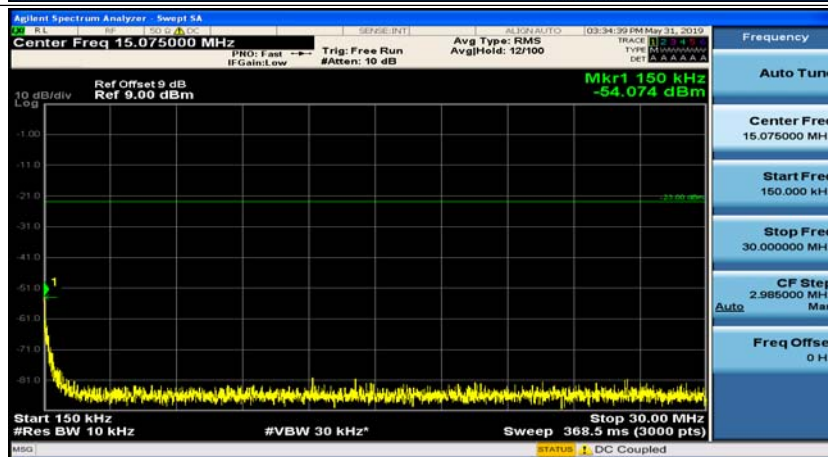
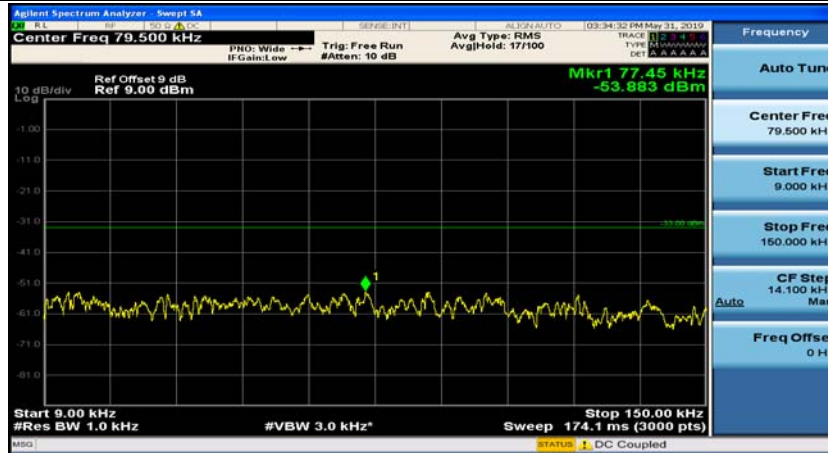


Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#24

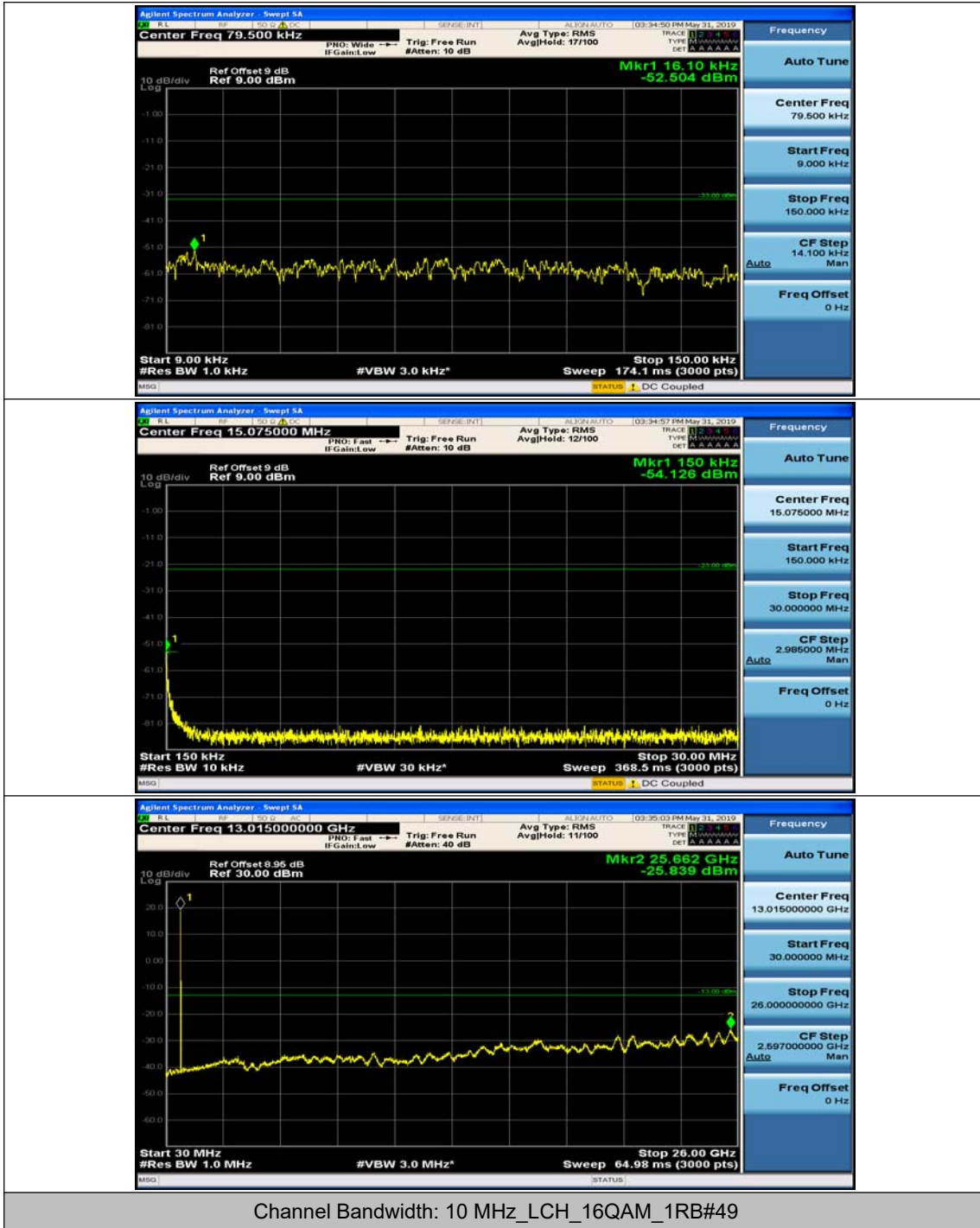


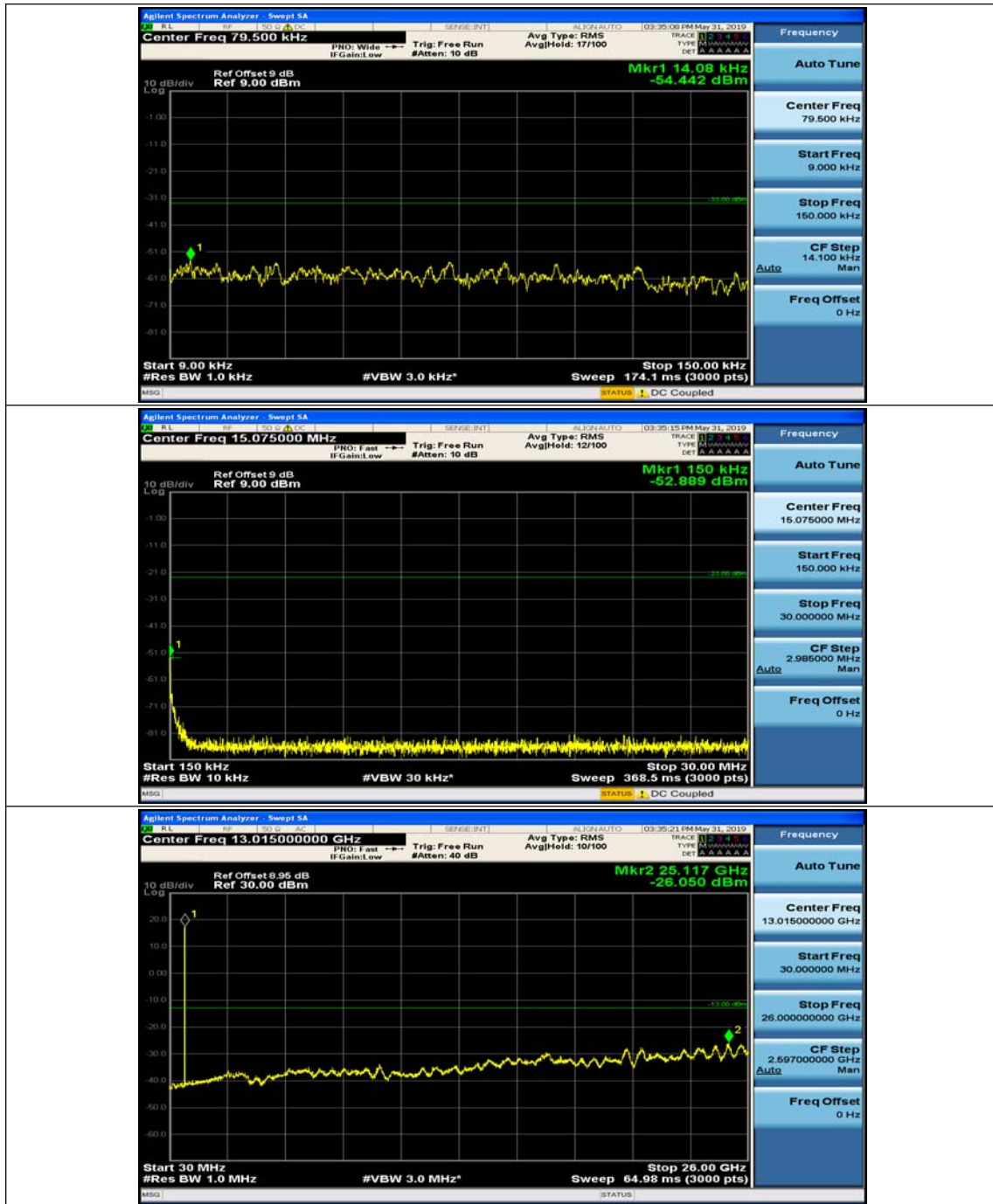


Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0

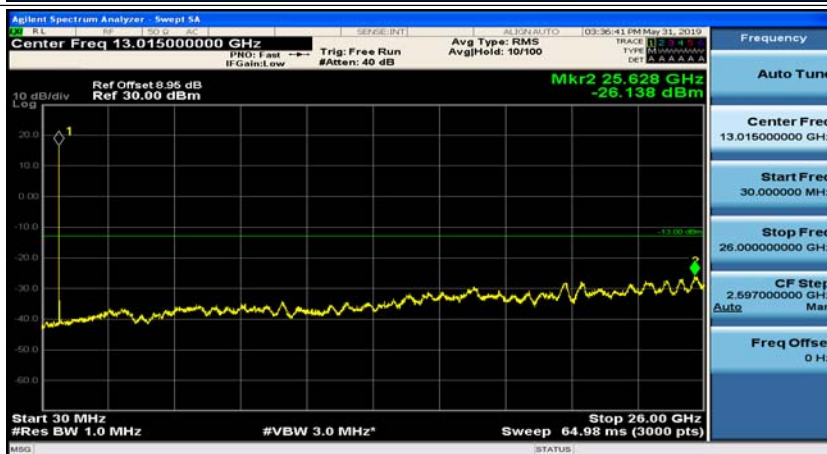
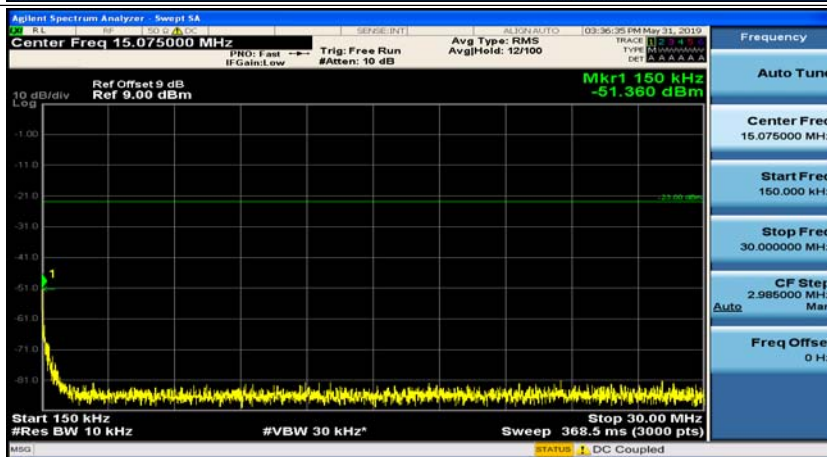


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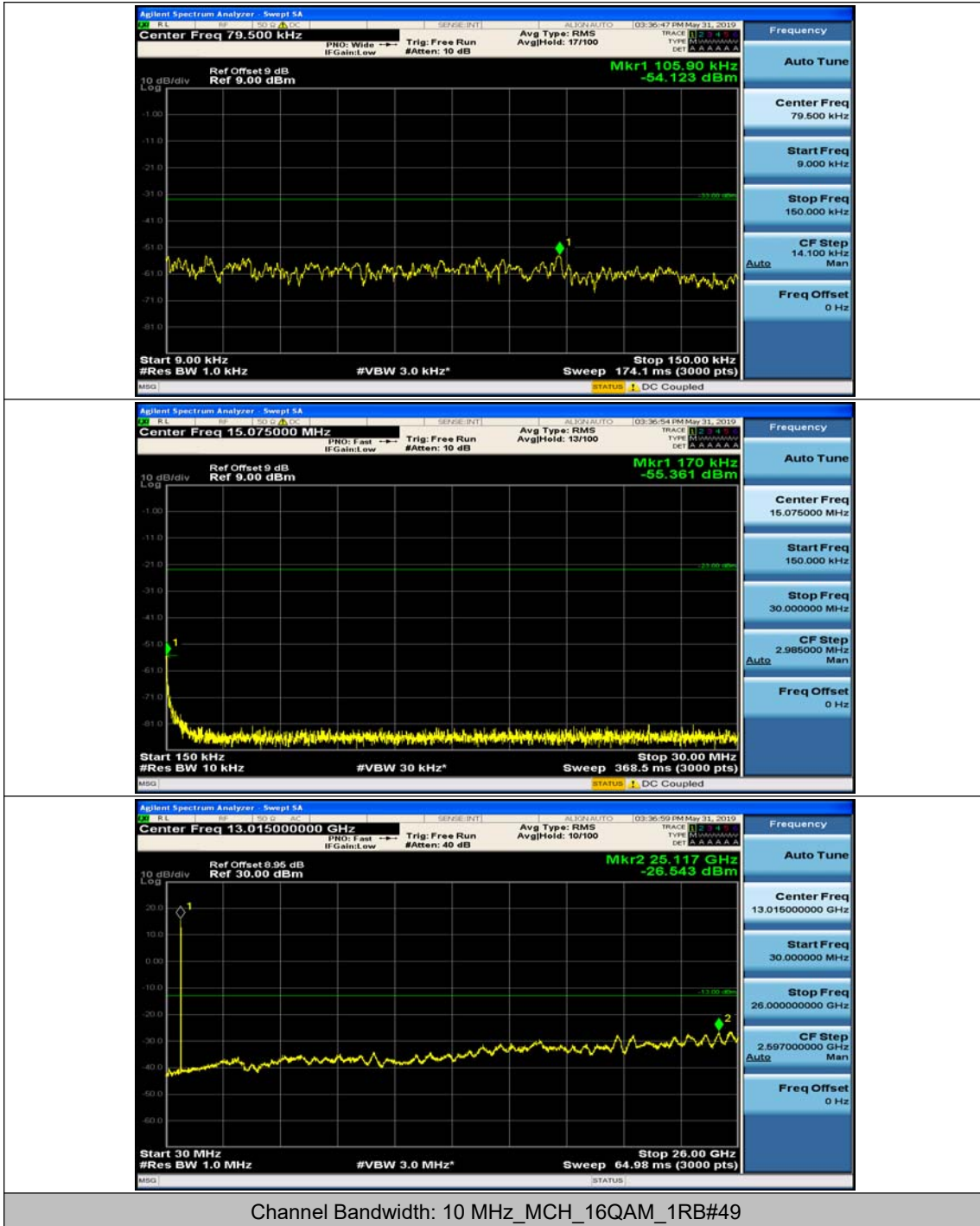


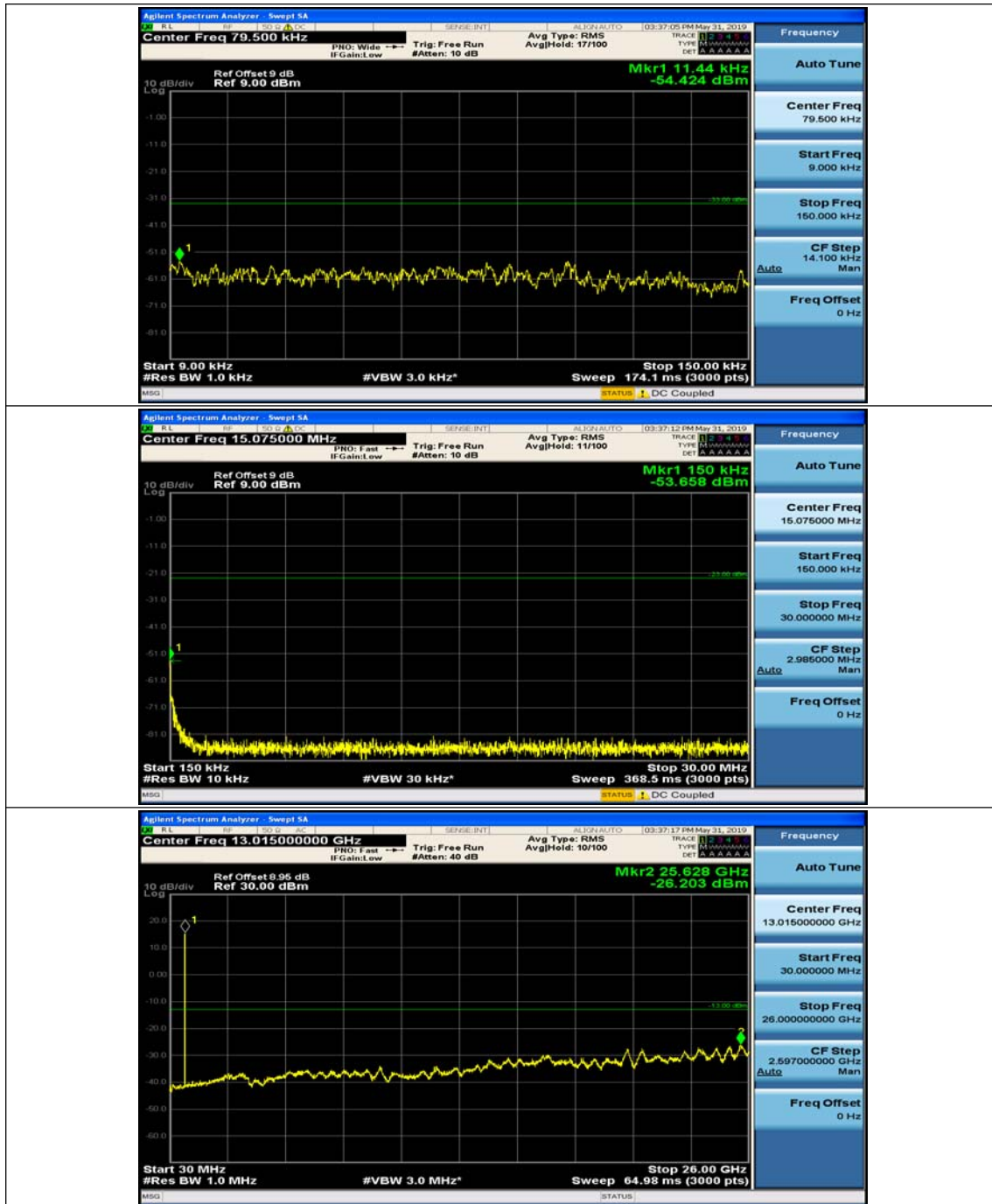


Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0

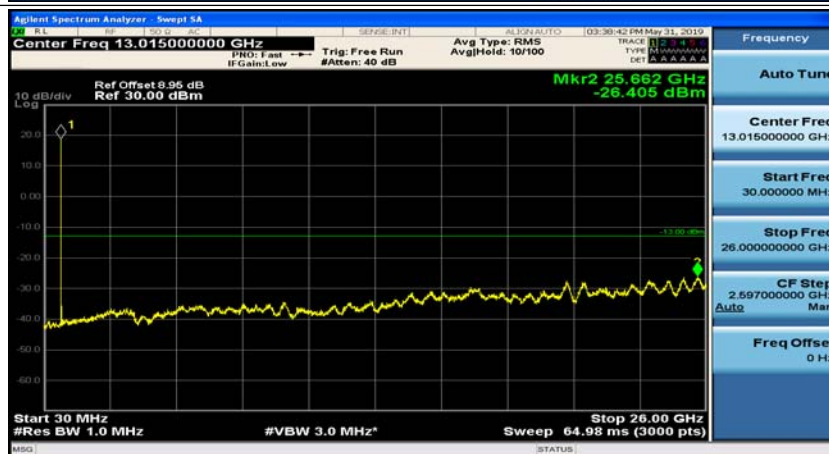
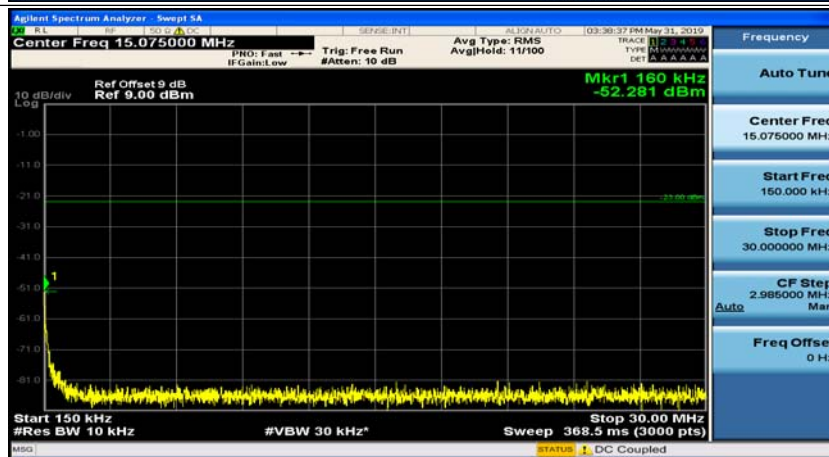
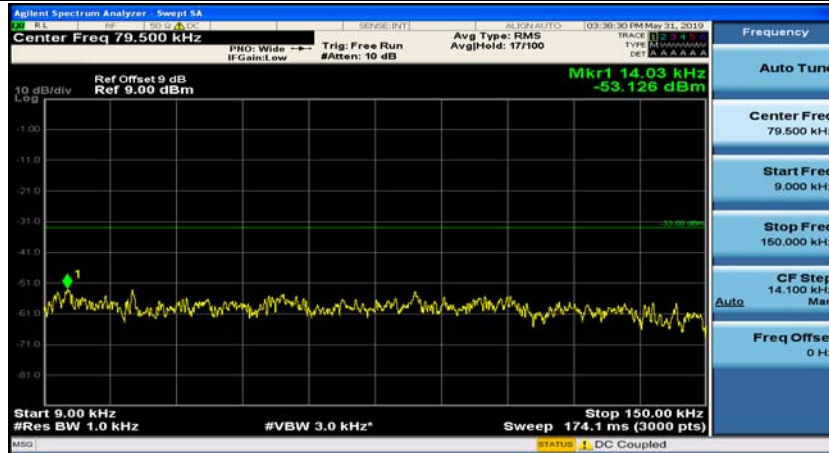


Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#24

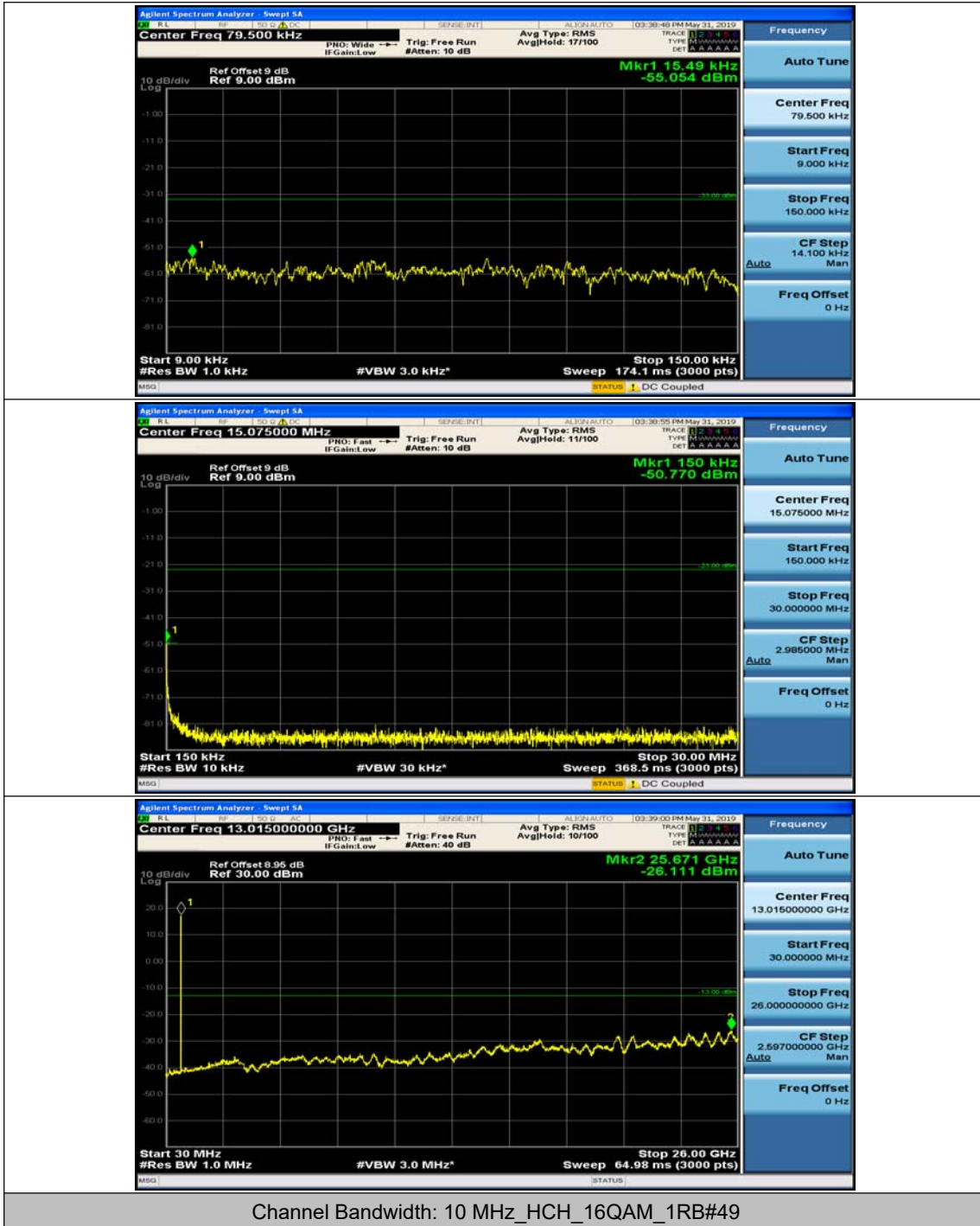




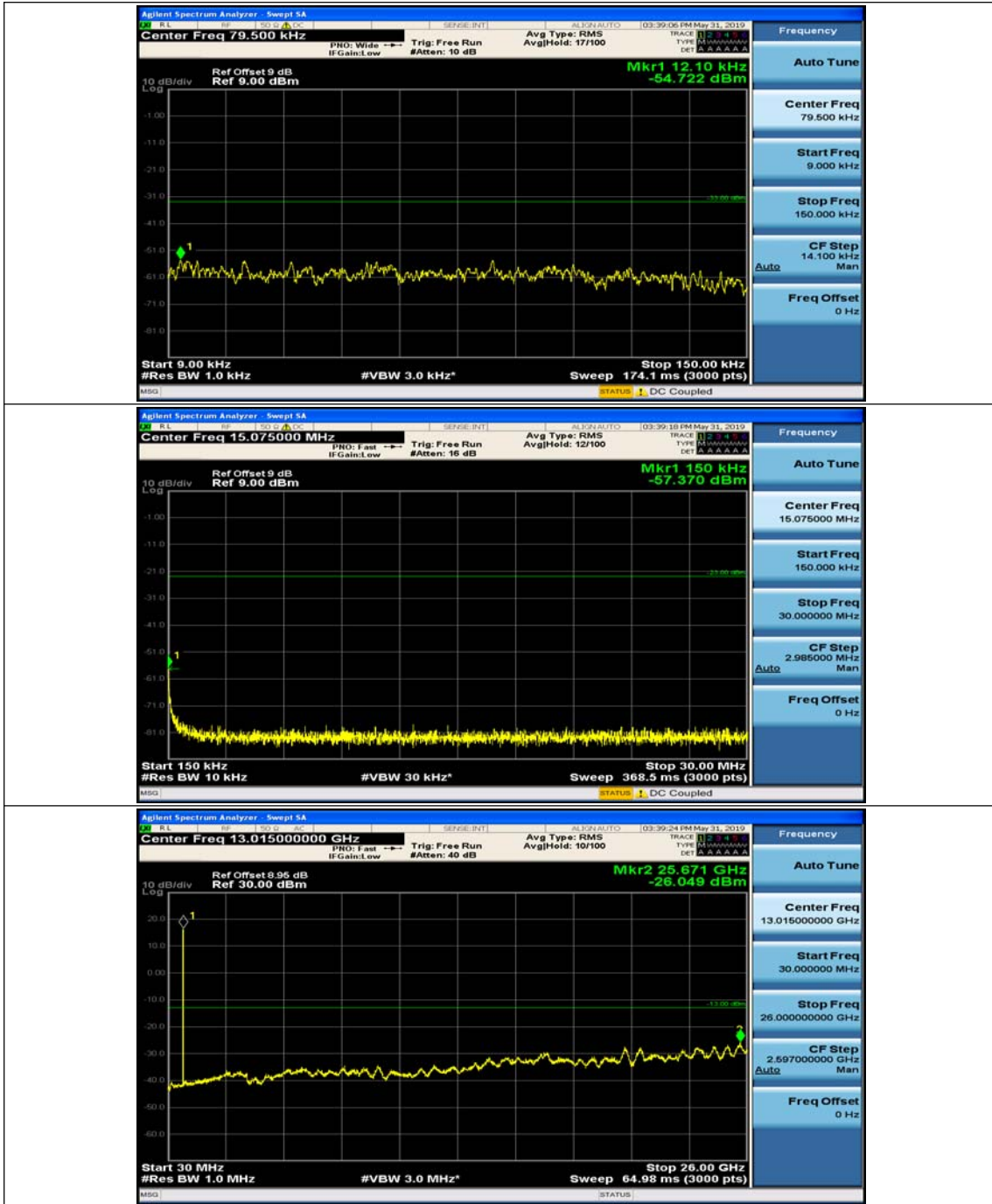
Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0



Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#24



Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#49



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	-0.08	-0.000113	± 2.5	PASS
		VN	TN	4.06	0.005747	± 2.5	PASS
		VH	TN	4.04	0.005718	± 2.5	PASS
	MCH	VL	TN	2.24	0.003155	± 2.5	PASS
		VN	TN	-0.24	-0.000338	± 2.5	PASS
		VH	TN	4.19	0.005901	± 2.5	PASS
	HCH	VL	TN	-0.12	-0.000168	± 2.5	PASS
		VN	TN	3.35	0.004695	± 2.5	PASS
		VH	TN	3.68	0.005158	± 2.5	PASS
16QAM	LCH	VL	TN	4.38	0.006200	± 2.5	PASS
		VN	TN	-1.21	-0.001713	± 2.5	PASS
		VH	TN	2.47	0.003496	± 2.5	PASS
	MCH	VL	TN	0.08	0.000113	± 2.5	PASS
		VN	TN	4.85	0.006831	± 2.5	PASS
		VH	TN	4.98	0.007014	± 2.5	PASS
	HCH	VL	TN	-0.12	-0.000168	± 2.5	PASS
		VN	TN	-1.92	-0.002691	± 2.5	PASS
		VH	TN	-0.86	-0.001205	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.19	0.003100	± 2.5	PASS
		VN	-20	-0.17	-0.000241	± 2.5	PASS
		VN	-10	-0.5	-0.000708	± 2.5	PASS
		VN	0	3.56	0.005039	± 2.5	PASS
		VN	10	4.56	0.006454	± 2.5	PASS
		VN	20	-0.85	-0.001203	± 2.5	PASS
		VN	30	1.3	0.001840	± 2.5	PASS
		VN	40	3.94	0.005577	± 2.5	PASS
		VN	50	0.66	0.000934	± 2.5	PASS
	MCH	VN	-30	-2	-0.002817	± 2.5	PASS

	VN	-20	-1.6	-0.002254	± 2.5	PASS	
		VN	-10	0.95	0.001338	± 2.5	PASS
		VN	0	2.31	0.003254	± 2.5	PASS
		VN	10	1.92	0.002704	± 2.5	PASS
		VN	20	3.6	0.005070	± 2.5	PASS
		VN	30	-0.23	-0.000324	± 2.5	PASS
		VN	40	1.29	0.001817	± 2.5	PASS
		VN	50	4.11	0.005789	± 2.5	PASS
	HCH	VN	-30	-0.52	-0.000729	± 2.5	PASS
		VN	-20	0.89	0.001247	± 2.5	PASS
		VN	-10	0.57	0.000799	± 2.5	PASS
		VN	0	3.52	0.004933	± 2.5	PASS
		VN	10	2.55	0.003574	± 2.5	PASS
		VN	20	-1.39	-0.001948	± 2.5	PASS
		VN	30	-1.75	-0.002453	± 2.5	PASS
		VN	40	2.38	0.003336	± 2.5	PASS
		VN	50	4.81	0.006741	± 2.5	PASS
		16QAM	LCH	VN	-30	4.51	0.006384
VN	-20			3.68	0.005209	± 2.5	PASS
VN	-10			-0.02	-0.000028	± 2.5	PASS
VN	0			-0.12	-0.000170	± 2.5	PASS
VN	10			-0.43	-0.000609	± 2.5	PASS
VN	20			0.09	0.000127	± 2.5	PASS
VN	30			-1.69	-0.002392	± 2.5	PASS
VN	40			-0.87	-0.001231	± 2.5	PASS
VN	50			-1.94	-0.002746	± 2.5	PASS
MCH	VN		-30	4.18	0.005858	± 2.5	PASS
	VN		-20	-1.86	-0.002607	± 2.5	PASS
	VN		-10	-1.51	-0.002116	± 2.5	PASS
	VN		0	4.3	0.006027	± 2.5	PASS
	VN		10	4.85	0.006797	± 2.5	PASS
	VN		20	1.74	0.002439	± 2.5	PASS
	VN		30	3.5	0.004905	± 2.5	PASS
	VN		40	-1.82	-0.002551	± 2.5	PASS
	VN		50	0.75	0.001051	± 2.5	PASS
HCH	VN		-30	2.77	0.003882	± 2.5	PASS
	VN		-20	-1.98	-0.002775	± 2.5	PASS
	VN		-10	1.15	0.001612	± 2.5	PASS
	VN		0	0.19	0.000266	± 2.5	PASS
	VN		10	-1.6	-0.002242	± 2.5	PASS
	VN		20	3.5	0.004905	± 2.5	PASS

		VN	30	4.89	0.006854	± 2.5	PASS
		VN	40	-0.53	-0.000743	± 2.5	PASS
		VN	50	0.53	0.000743	± 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	4.97	0.007010	± 2.5	PASS
		VN	TN	1.51	0.002130	± 2.5	PASS
		VH	TN	1.64	0.002313	± 2.5	PASS
	MCH	VL	TN	4.01	0.005648	± 2.5	PASS
		VN	TN	2.88	0.004056	± 2.5	PASS
		VH	TN	4.48	0.006310	± 2.5	PASS
	HCH	VL	TN	-1.57	-0.002208	± 2.5	PASS
		VN	TN	-0.39	-0.000549	± 2.5	PASS
		VH	TN	4.87	0.006850	± 2.5	PASS
16QAM	LCH	VL	TN	3.64	0.005134	± 2.5	PASS
		VN	TN	2.08	0.002934	± 2.5	PASS
		VH	TN	-0.75	-0.001058	± 2.5	PASS
	MCH	VL	TN	1.05	0.001479	± 2.5	PASS
		VN	TN	0.91	0.001282	± 2.5	PASS
		VH	TN	4.01	0.005648	± 2.5	PASS
	HCH	VL	TN	3.85	0.005415	± 2.5	PASS
		VN	TN	1.59	0.002236	± 2.5	PASS
		VH	TN	3.02	0.004248	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	0.48	0.000677	± 2.5	PASS
		VN	-20	2.38	0.003357	± 2.5	PASS
		VN	-10	0.84	0.001185	± 2.5	PASS
		VN	0	1.44	0.002031	± 2.5	PASS
		VN	10	2.68	0.003780	± 2.5	PASS
		VN	20	-1.11	-0.001566	± 2.5	PASS
		VN	30	3.59	0.005063	± 2.5	PASS
		VN	40	0.22	0.000310	± 2.5	PASS
		VN	50	-0.35	-0.000494	± 2.5	PASS
	MCH	VN	-30	0.83	0.001169	± 2.5	PASS
		VN	-20	-1.61	-0.002268	± 2.5	PASS

		VN	-10	-1.76	-0.002479	± 2.5	PASS		
		VN	0	1.52	0.002141	± 2.5	PASS		
		VN	10	-1.98	-0.002789	± 2.5	PASS		
		VN	20	1.52	0.002141	± 2.5	PASS		
		VN	30	4.41	0.006211	± 2.5	PASS		
		VN	40	-1.42	-0.002000	± 2.5	PASS		
		VN	50	-0.81	-0.001141	± 2.5	PASS		
	HCH	VN	-30	3.15	0.004430	± 2.5	PASS		
		VN	-20	4.92	0.006920	± 2.5	PASS		
		VN	-10	2.19	0.003080	± 2.5	PASS		
		VN	0	0.98	0.001378	± 2.5	PASS		
		VN	10	-1.27	-0.001786	± 2.5	PASS		
		VN	20	3.72	0.005232	± 2.5	PASS		
		VN	30	2.76	0.003882	± 2.5	PASS		
		VN	40	3.53	0.004965	± 2.5	PASS		
		VN	50	3.92	0.005513	± 2.5	PASS		
		QPSK	LCH	VN	-30	1.53	0.002155	± 2.5	PASS
				VN	-20	1.46	0.002056	± 2.5	PASS
VN	-10			0.2	0.000282	± 2.5	PASS		
VN	0			4.5	0.006338	± 2.5	PASS		
VN	10			-1.03	-0.001451	± 2.5	PASS		
VN	20			-0.09	-0.000127	± 2.5	PASS		
VN	30			-1.53	-0.002155	± 2.5	PASS		
VN	40			3.02	0.004254	± 2.5	PASS		
VN	50			2.43	0.003423	± 2.5	PASS		
MCH	VN		-30	-0.56	-0.000788	± 2.5	PASS		
	VN		-20	1.69	0.002377	± 2.5	PASS		
	VN		-10	-1.99	-0.002799	± 2.5	PASS		
	VN		0	-0.21	-0.000295	± 2.5	PASS		
	VN		10	-1.2	-0.001688	± 2.5	PASS		
	VN		20	0.92	0.001294	± 2.5	PASS		
	VN		30	3.58	0.005035	± 2.5	PASS		
	VN		40	4.76	0.006695	± 2.5	PASS		
	VN		50	4.95	0.006962	± 2.5	PASS		
HCH	VN		-30	2.21	0.003108	± 2.5	PASS		
	VN		-20	4.87	0.006850	± 2.5	PASS		
	VN		-10	3.76	0.005288	± 2.5	PASS		
	VN		0	4.52	0.006357	± 2.5	PASS		
	VN		10	0.02	0.000028	± 2.5	PASS		
	VN		20	2.57	0.003615	± 2.5	PASS		
	VN		30	4.79	0.006737	± 2.5	PASS		

		VN	40	1.79	0.002518	± 2.5	PASS
		VN	50	3.65	0.005134	± 2.5	PASS