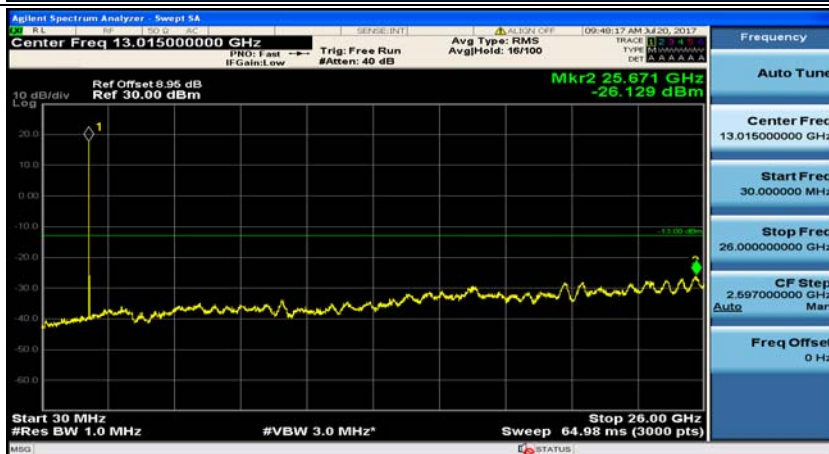
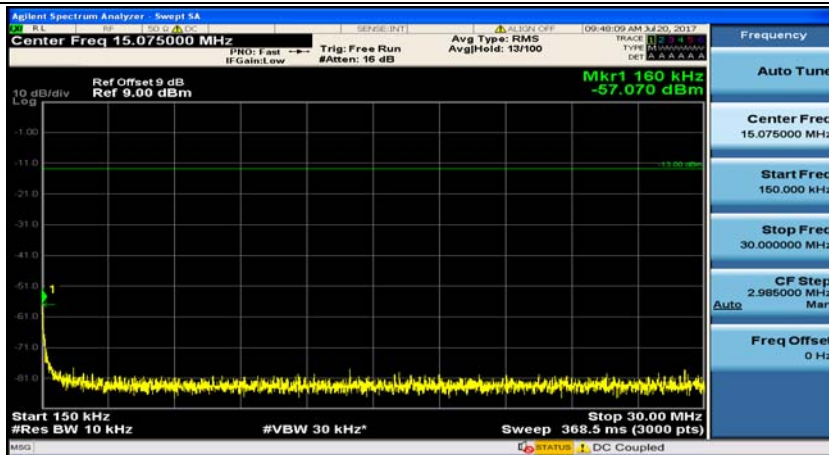
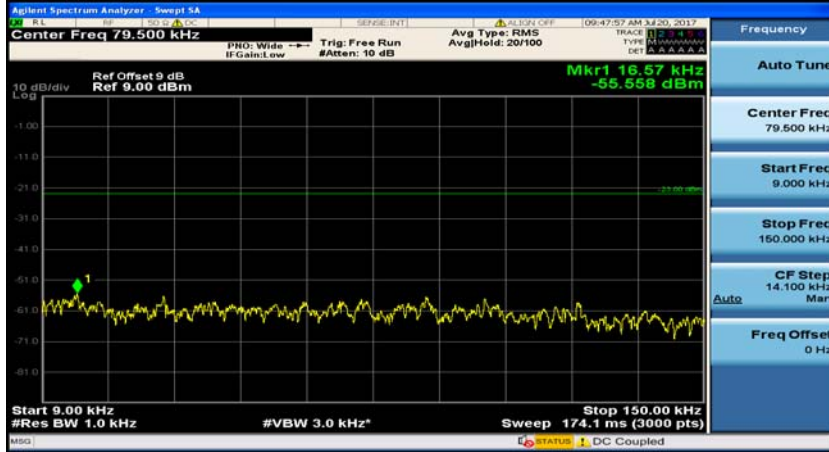
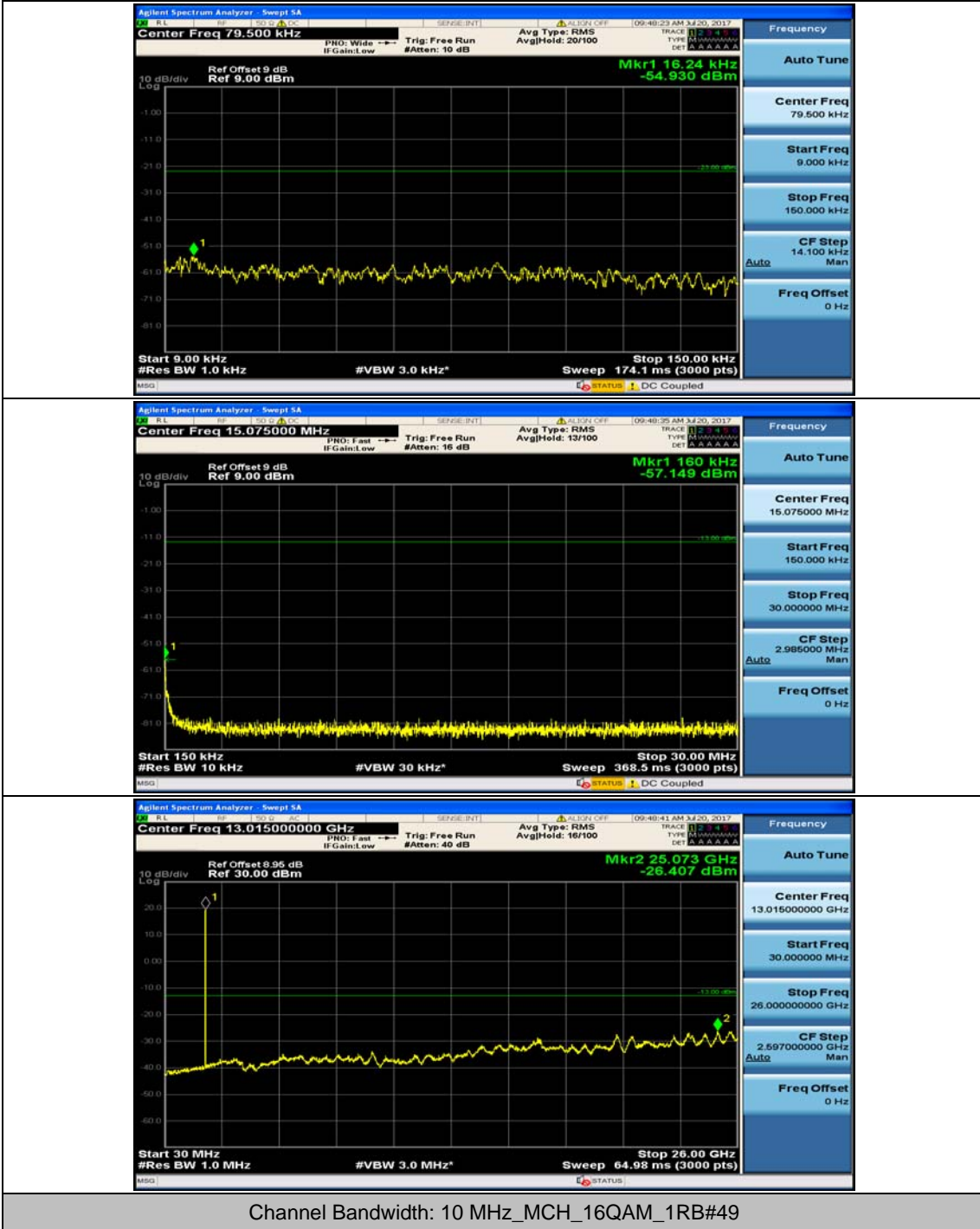
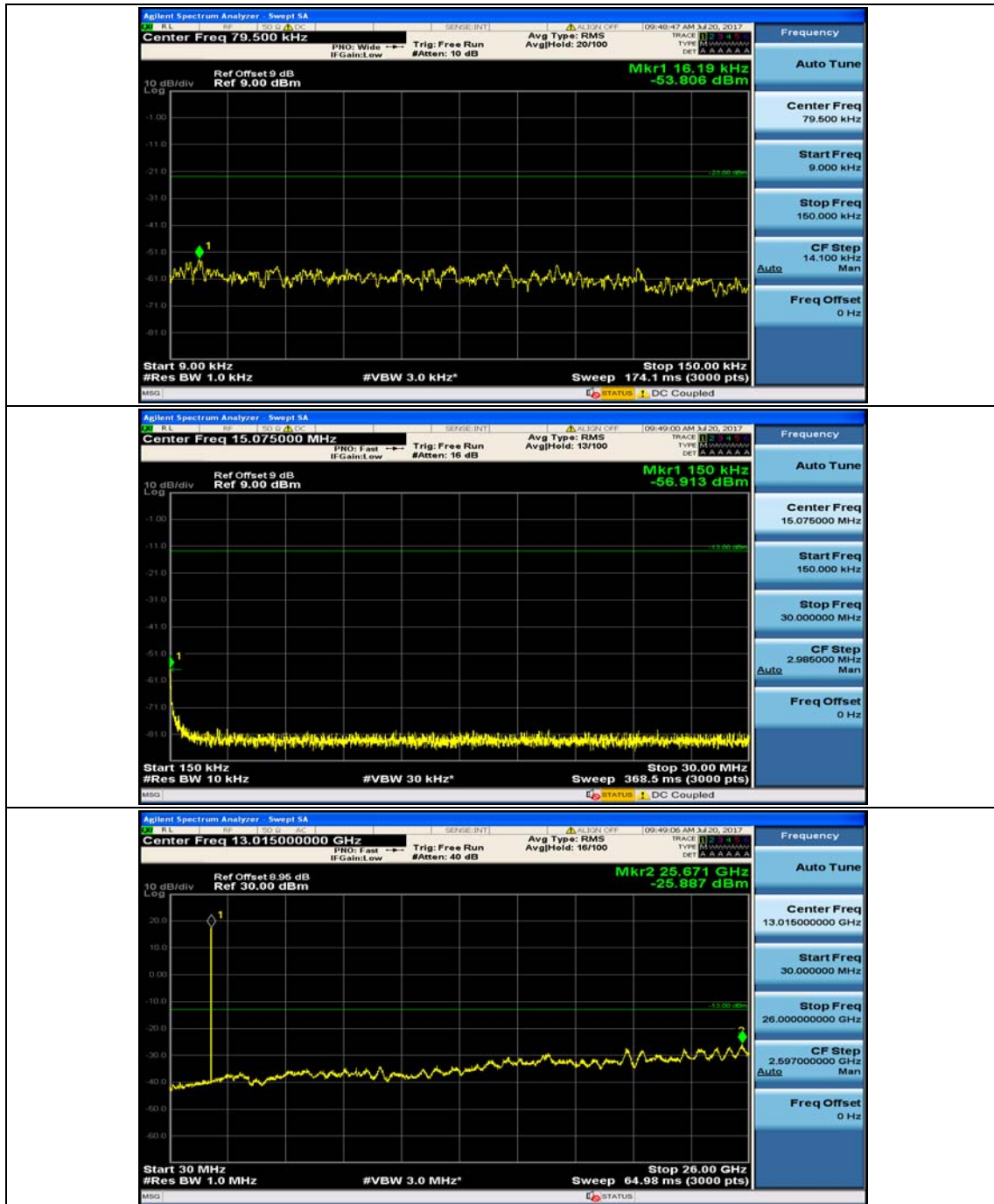


Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0

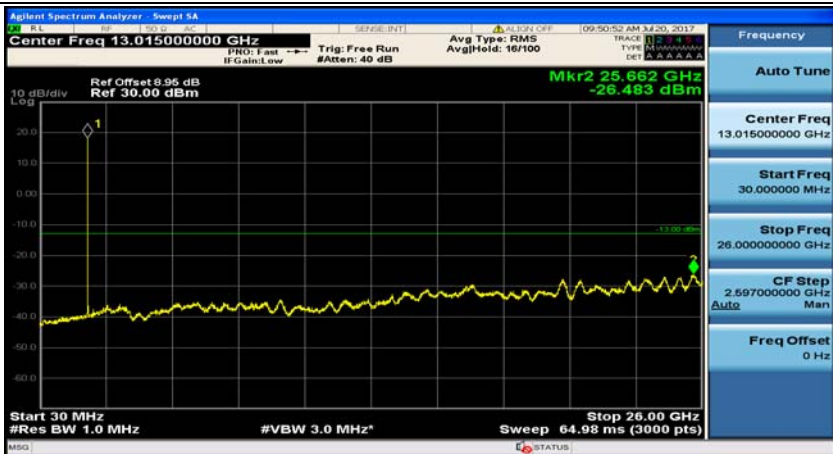
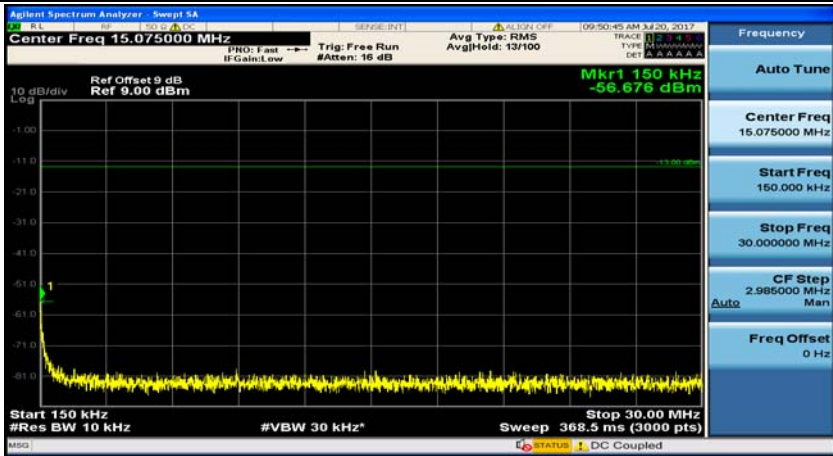
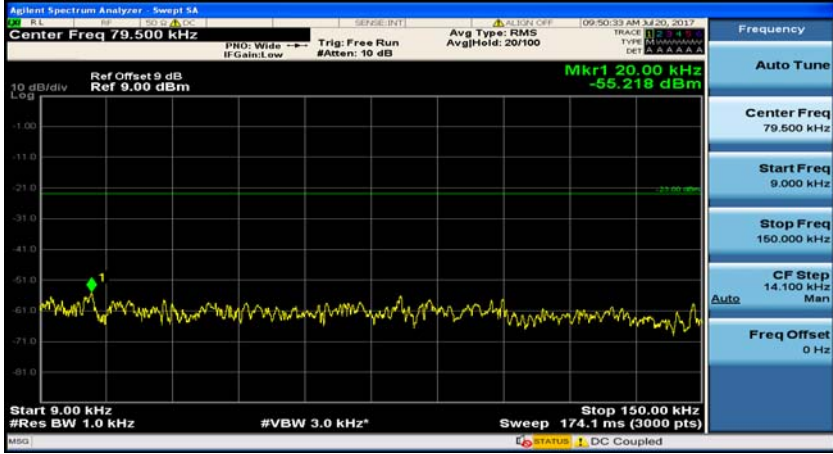


Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#24

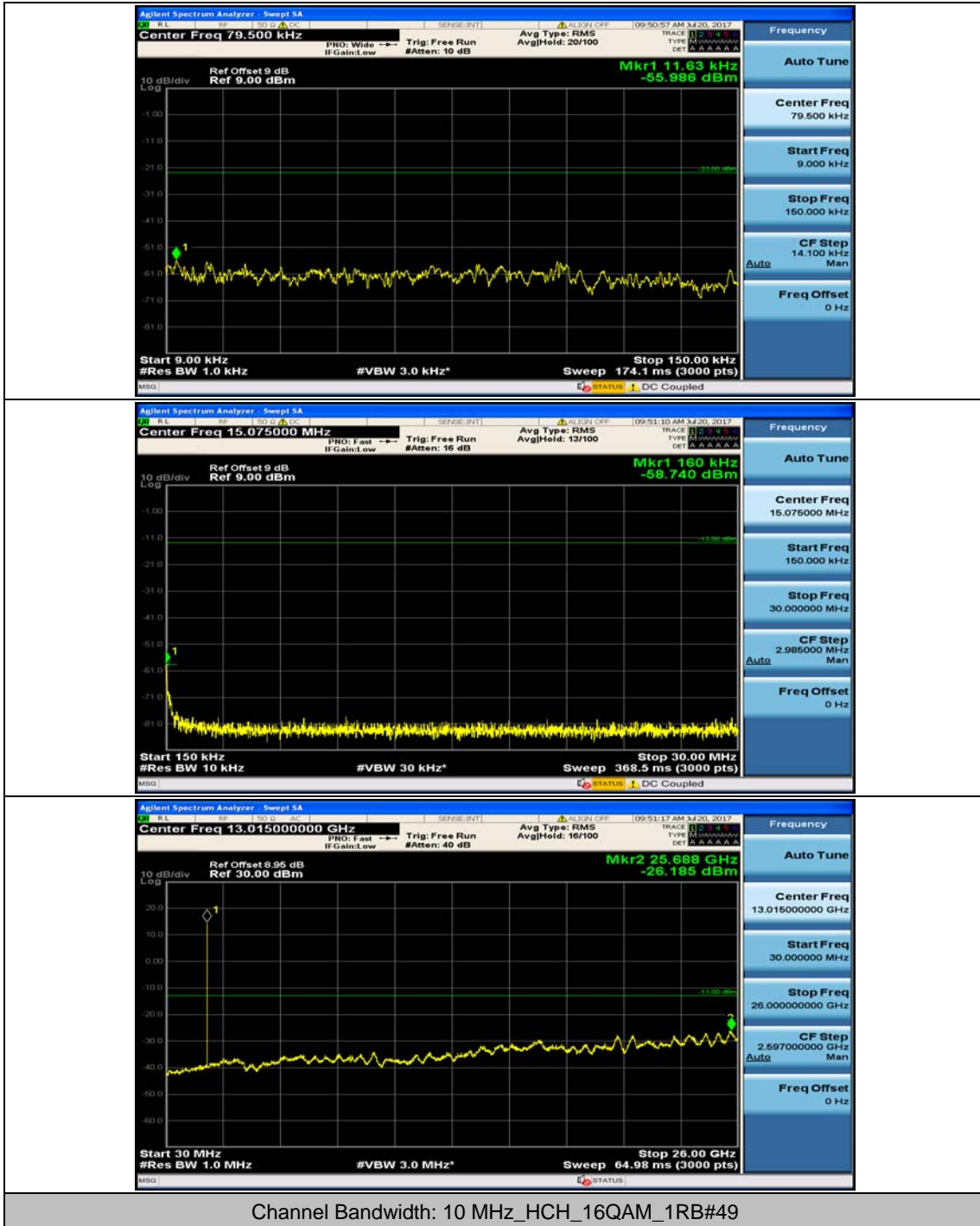


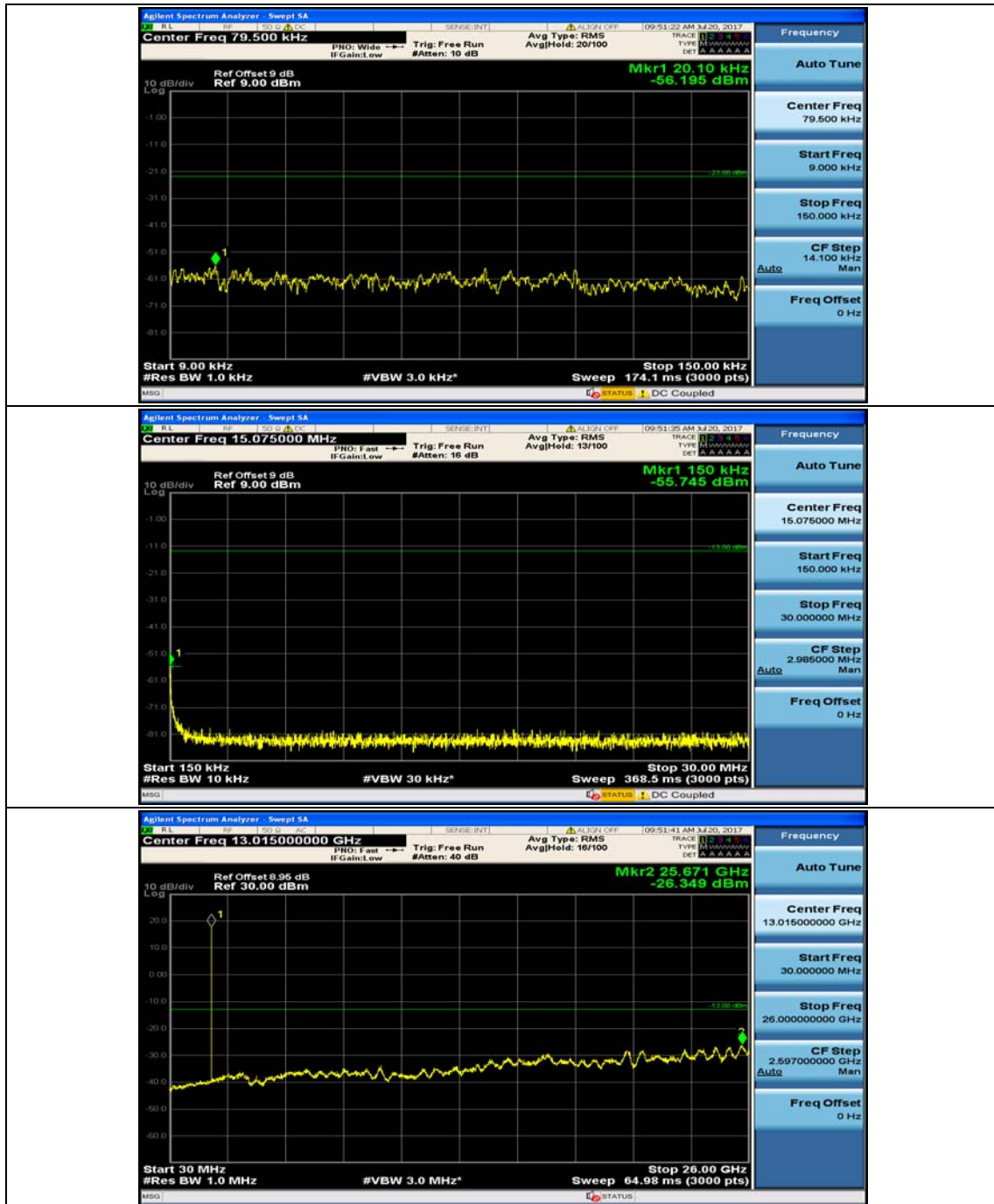


Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0

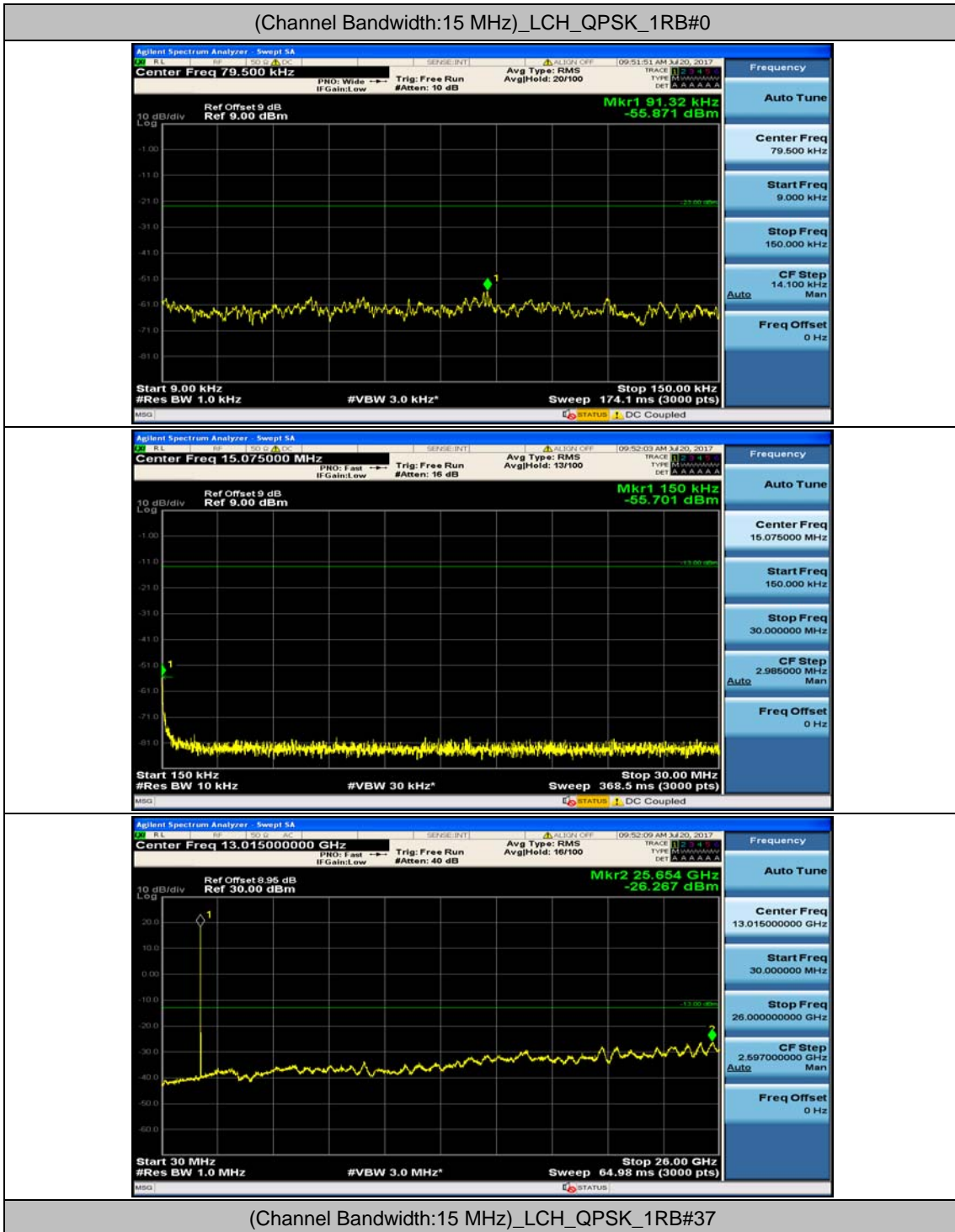


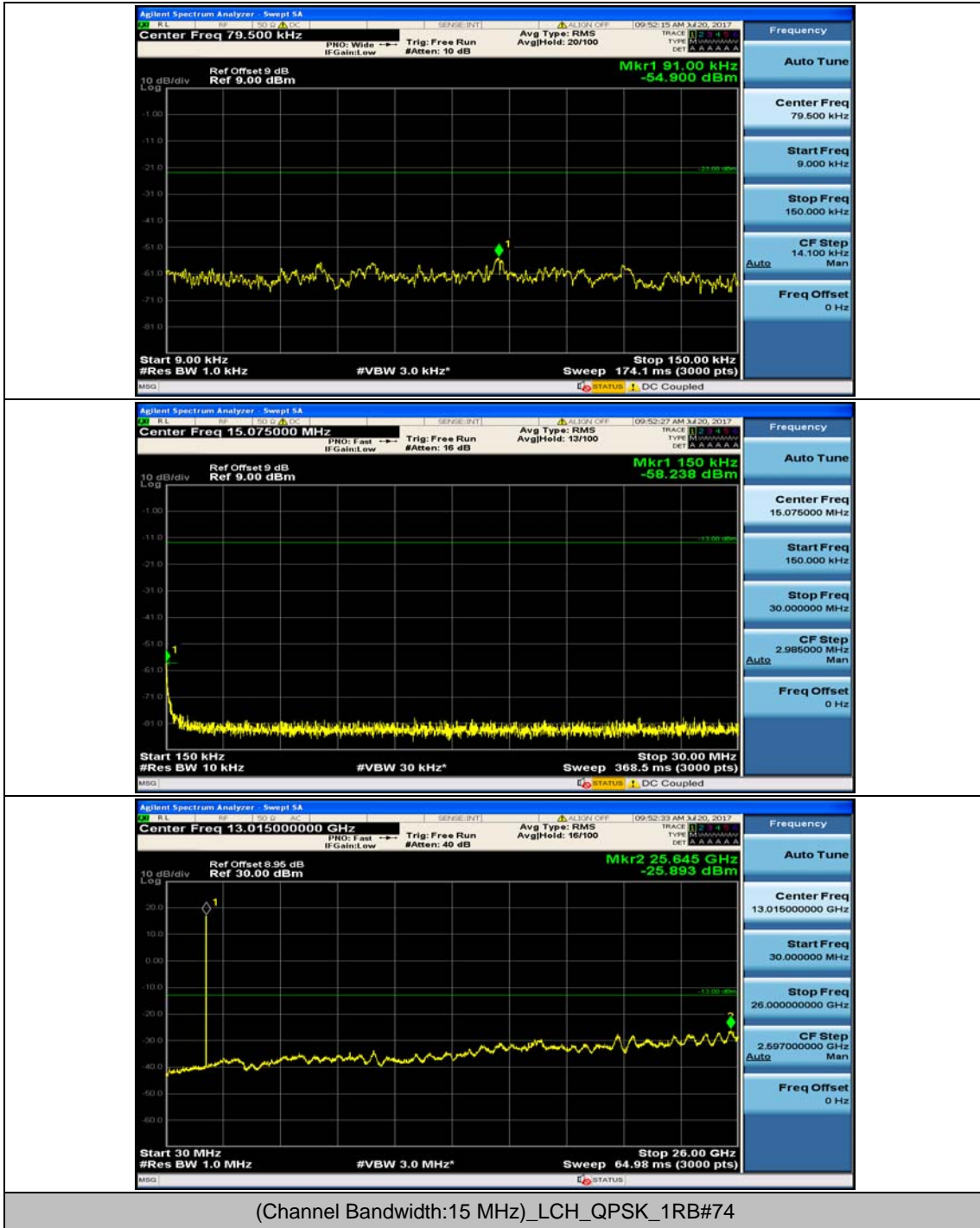
Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#24

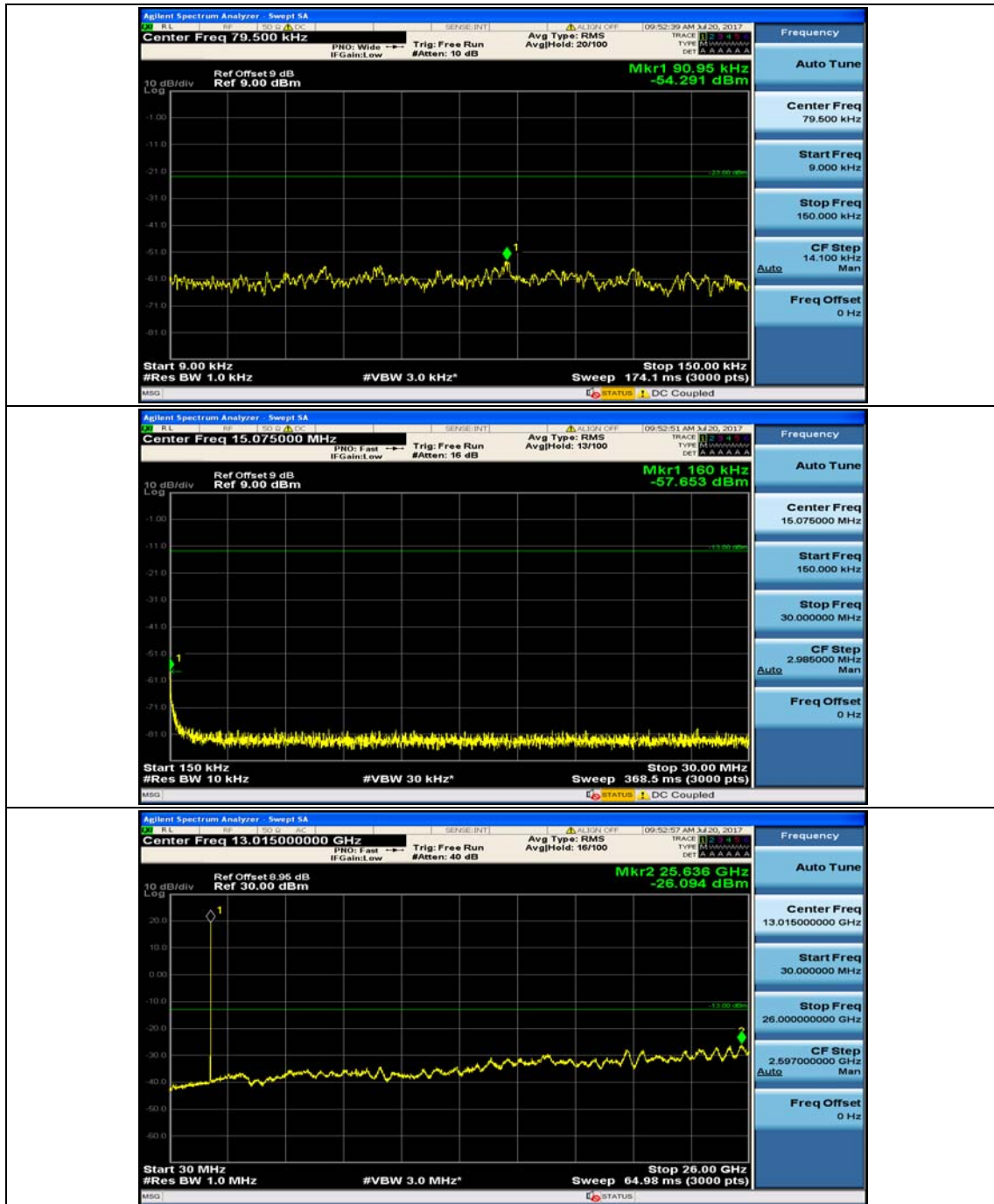




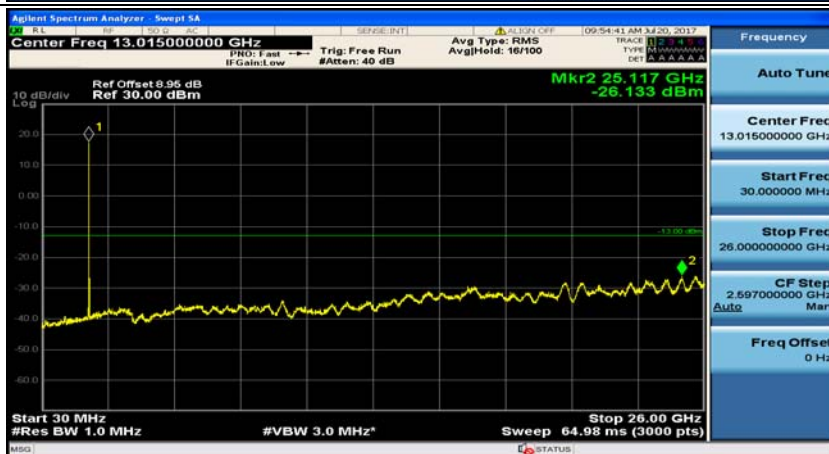
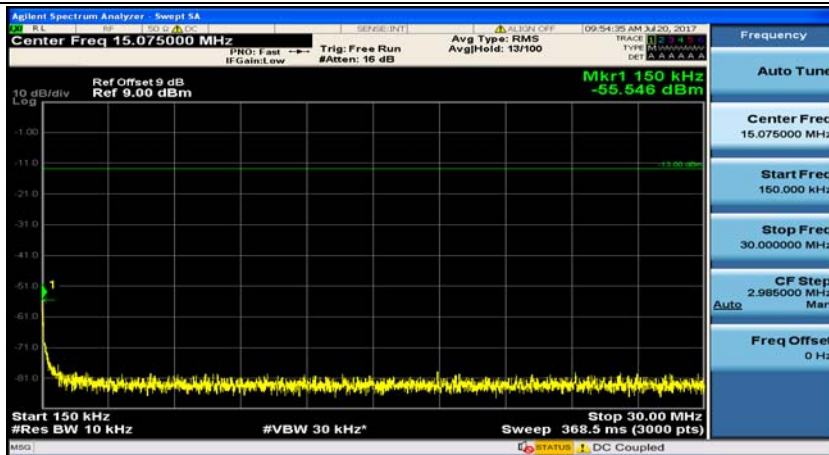
Channel Bandwidth: 15 MHz



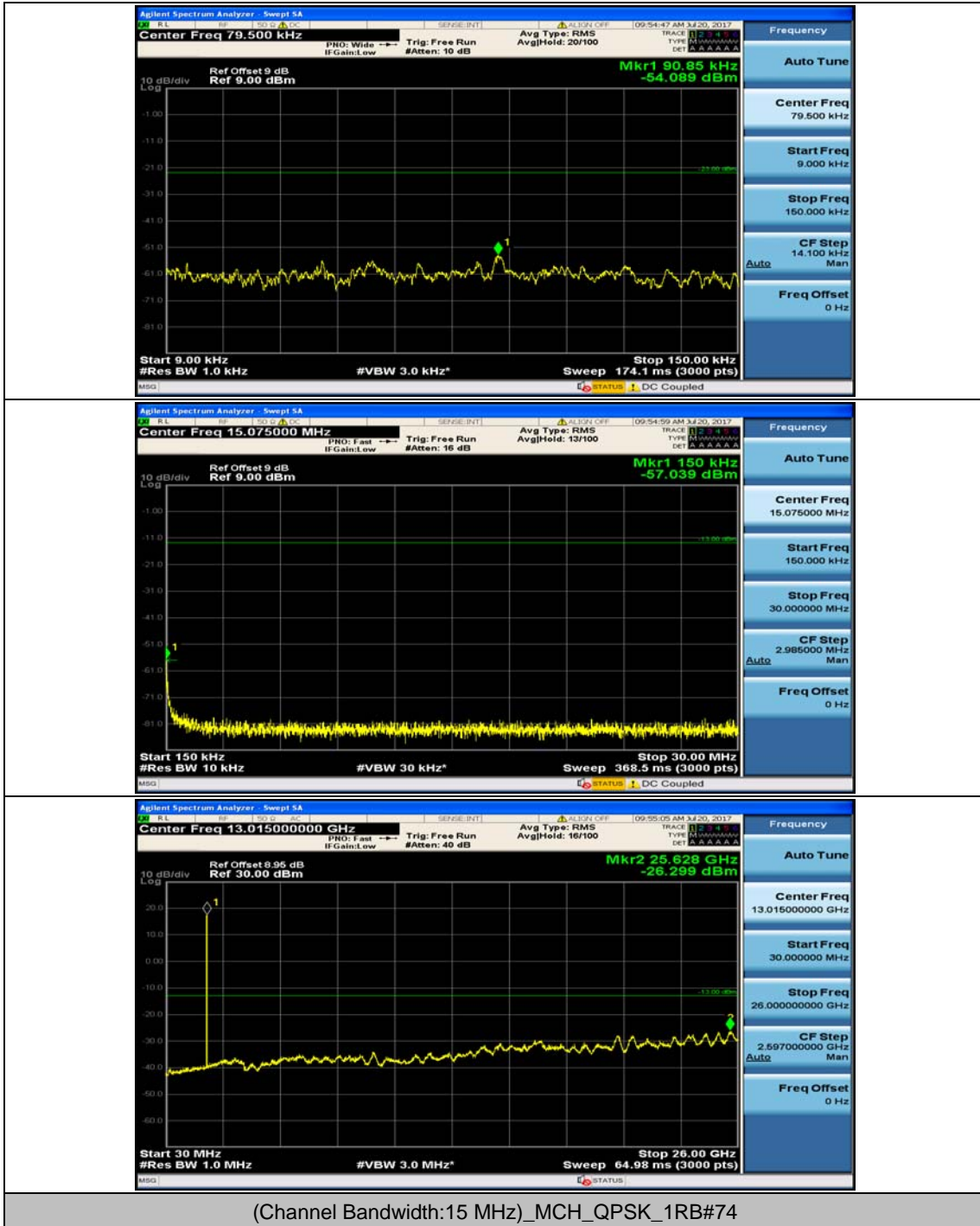


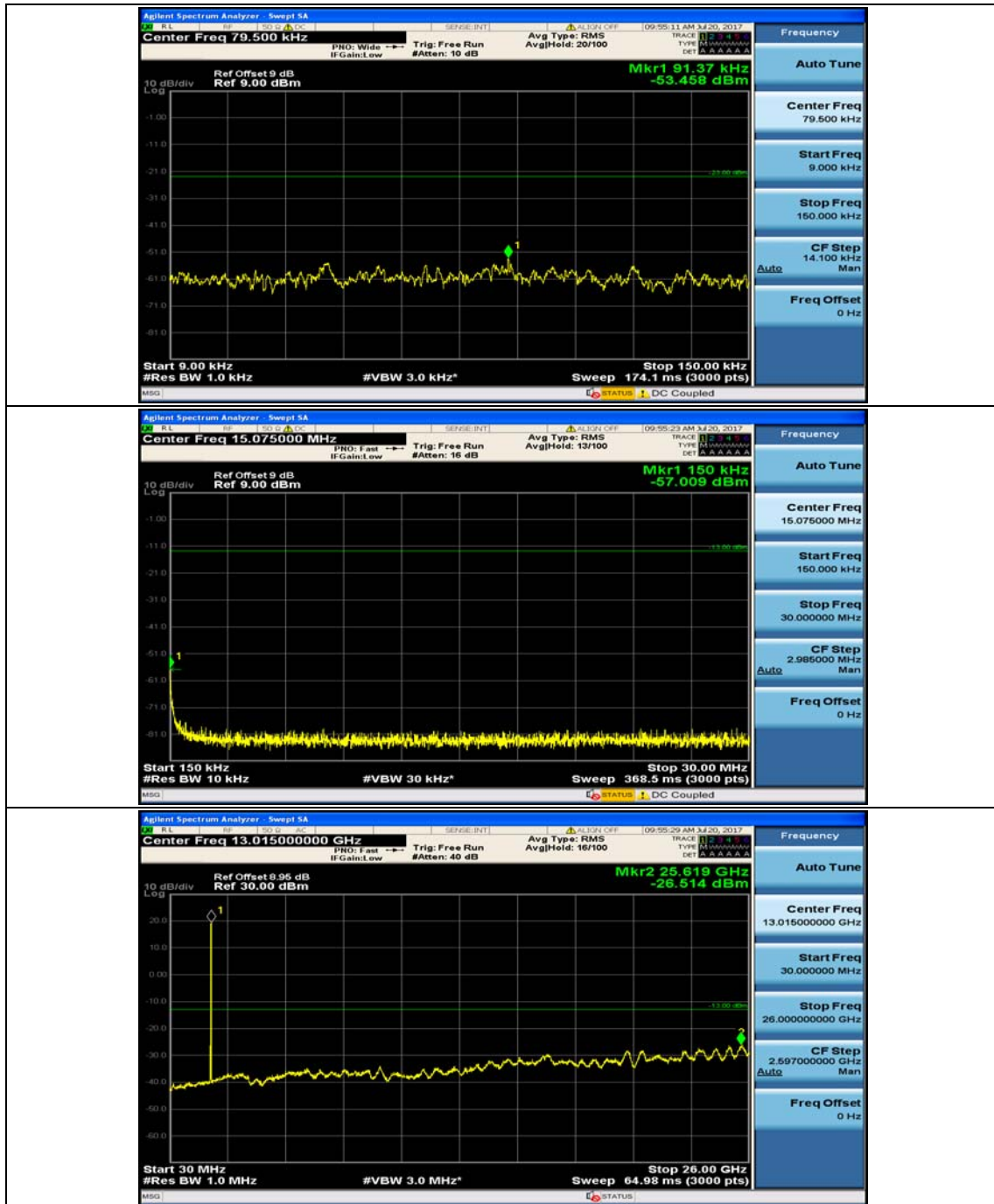


(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#0

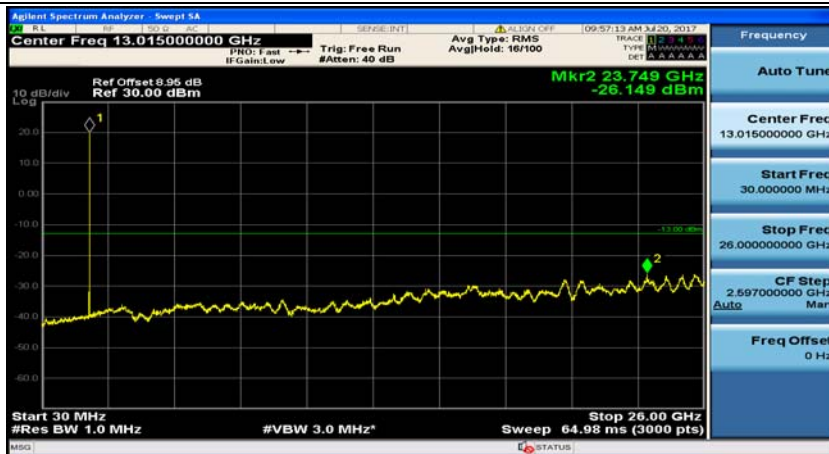
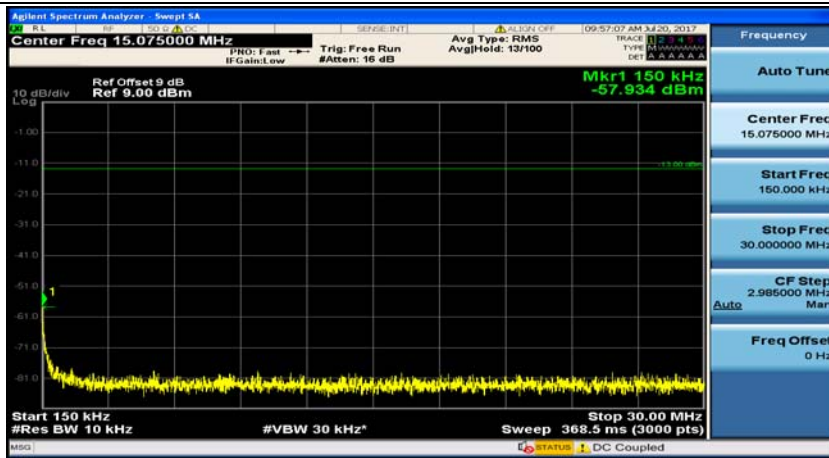
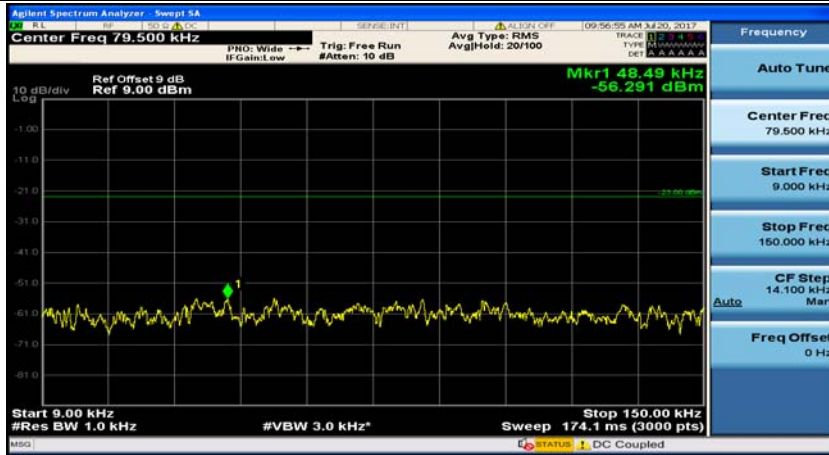


(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#37

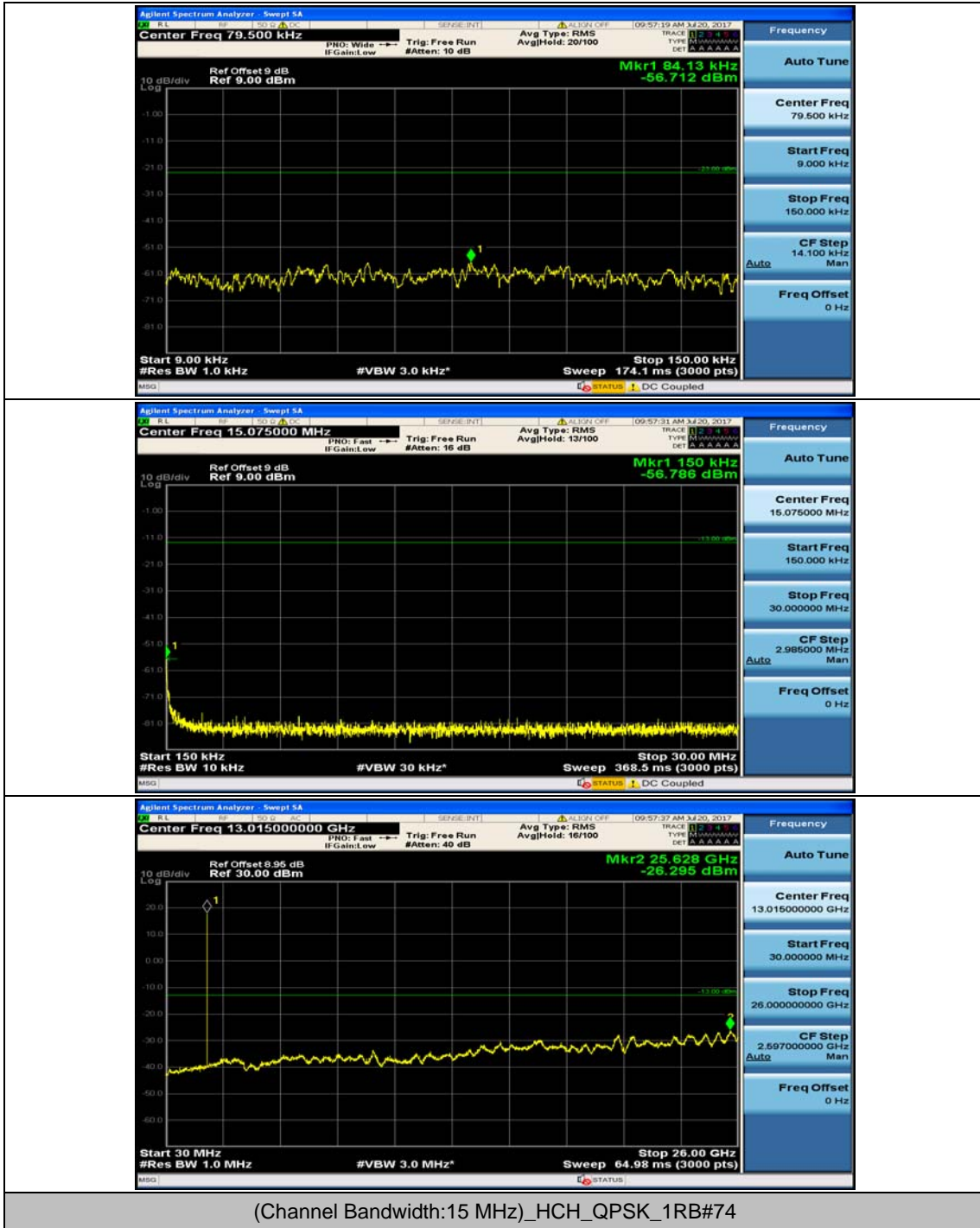


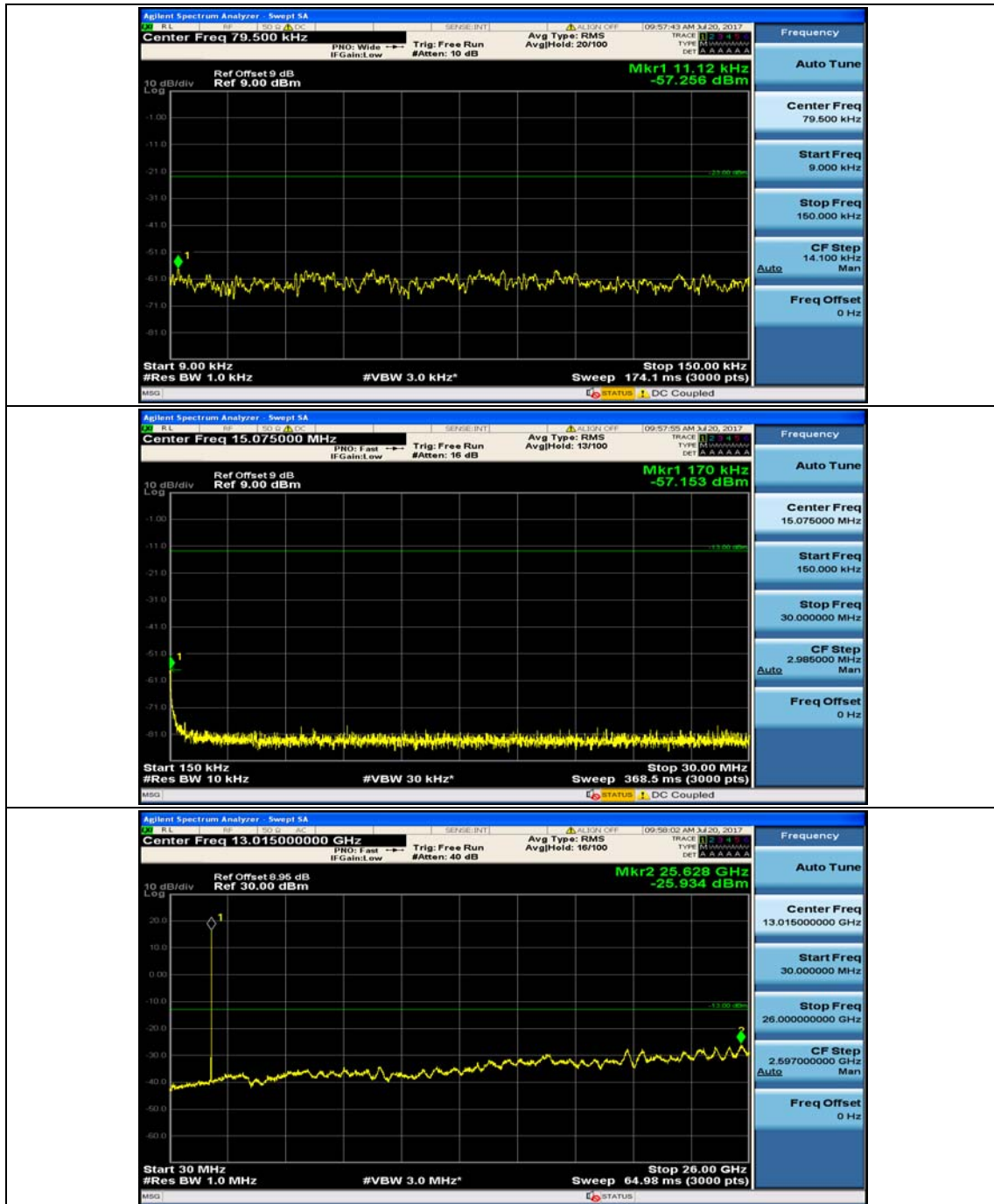


(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#0

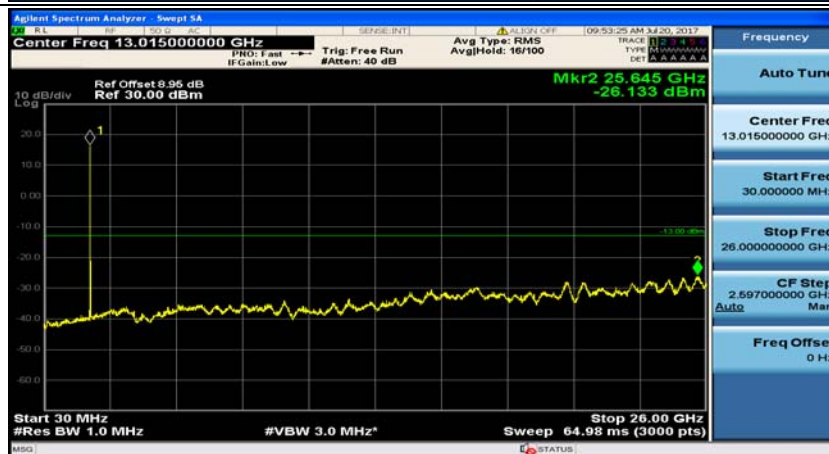
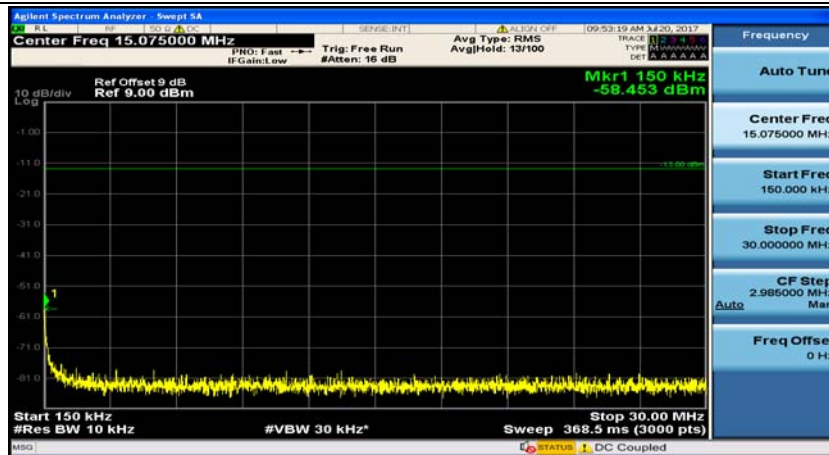


(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#37

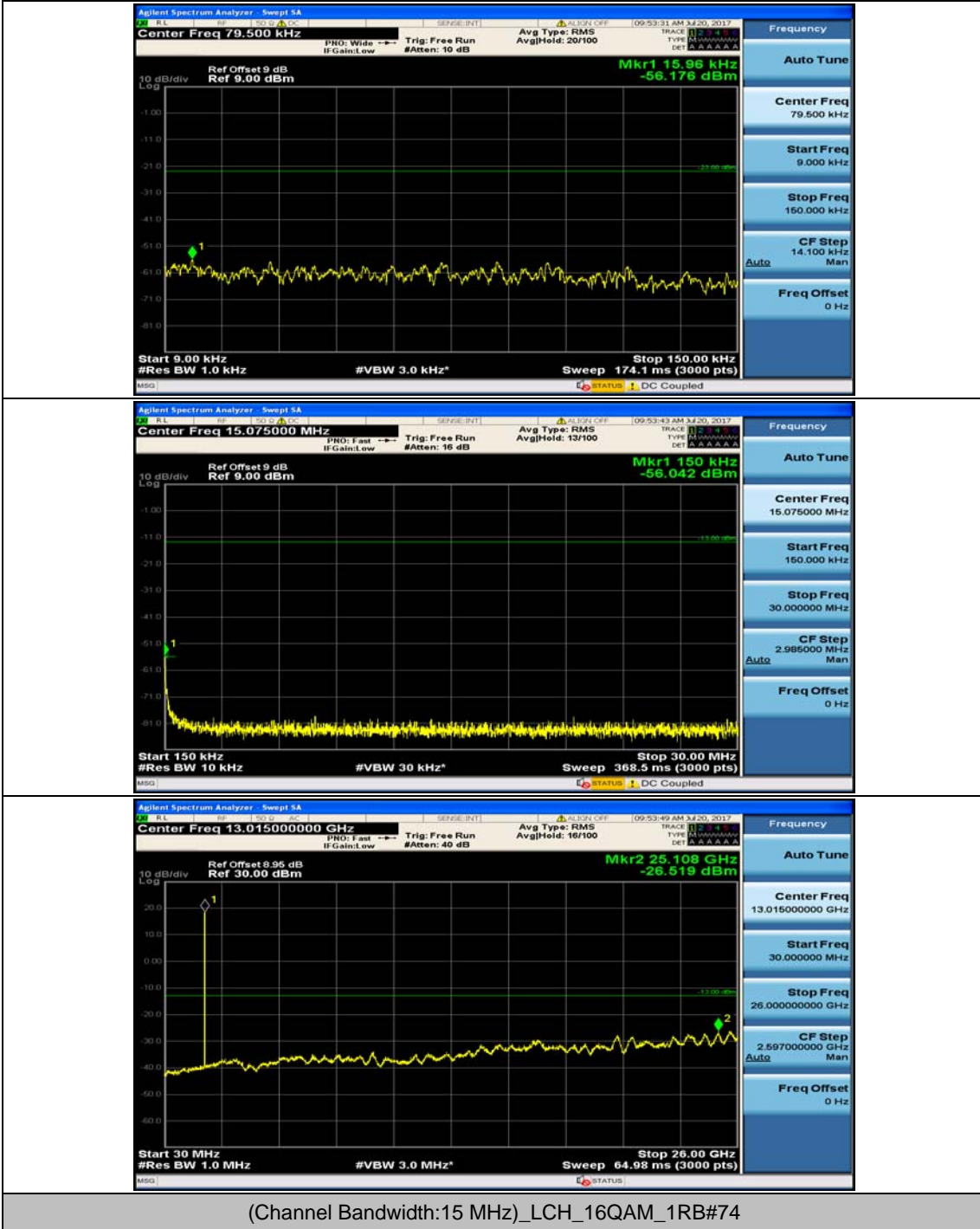


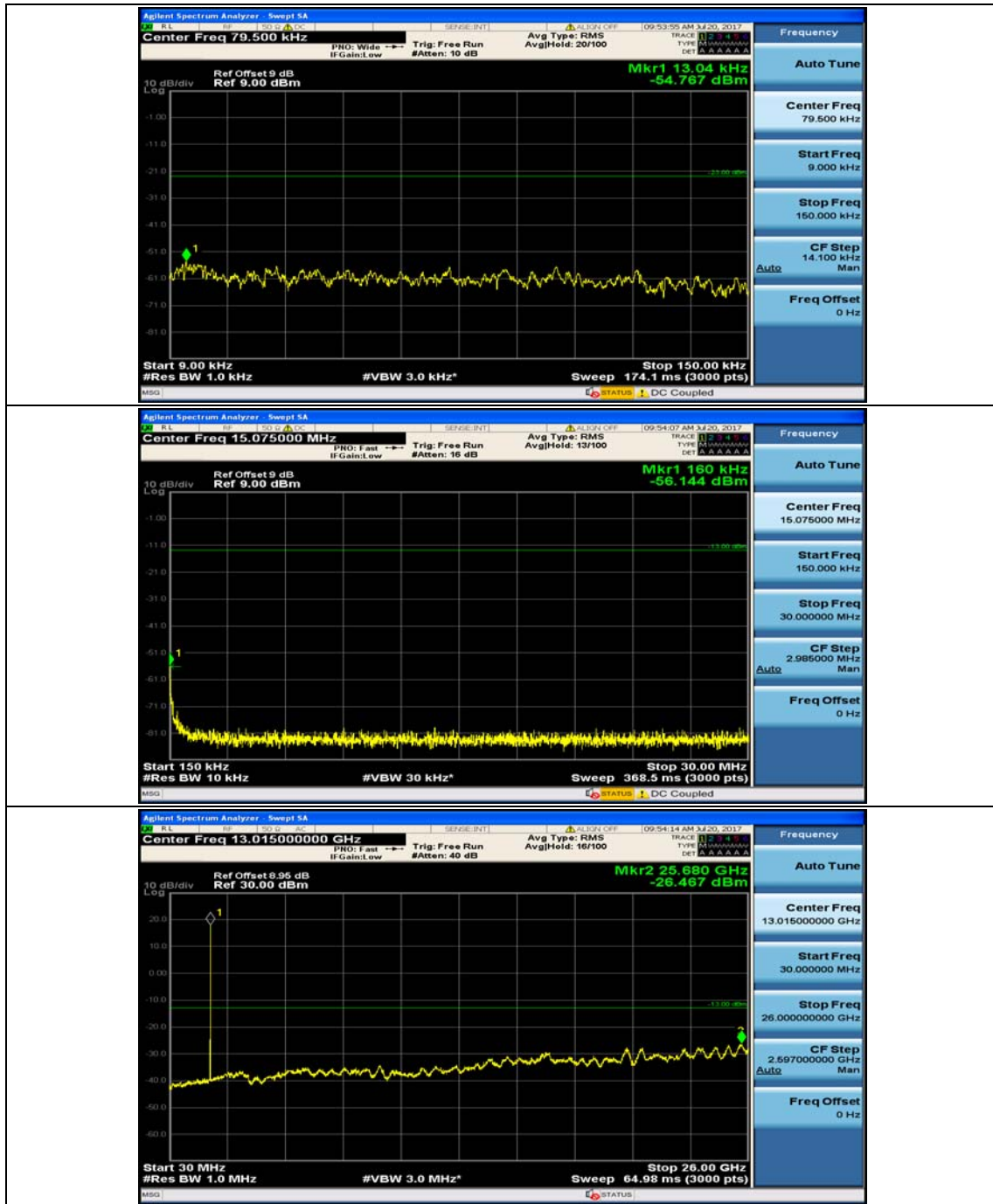


(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#0

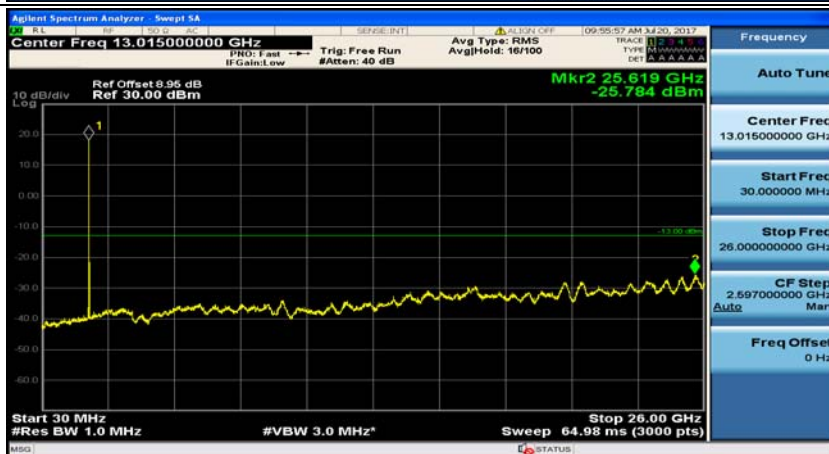
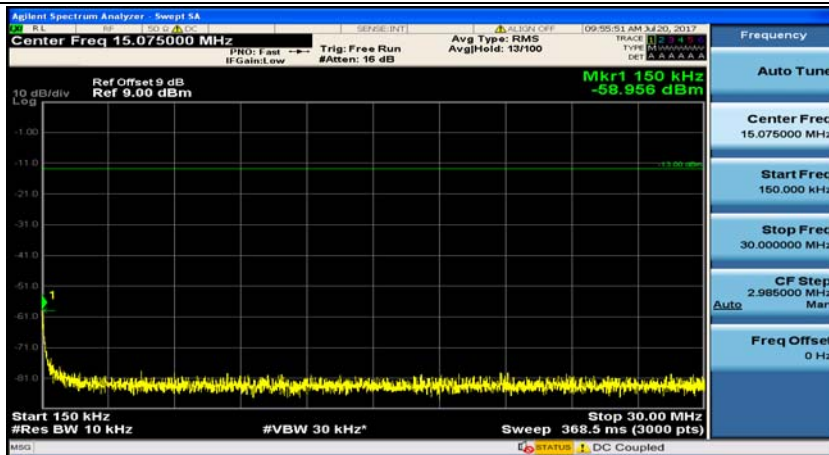
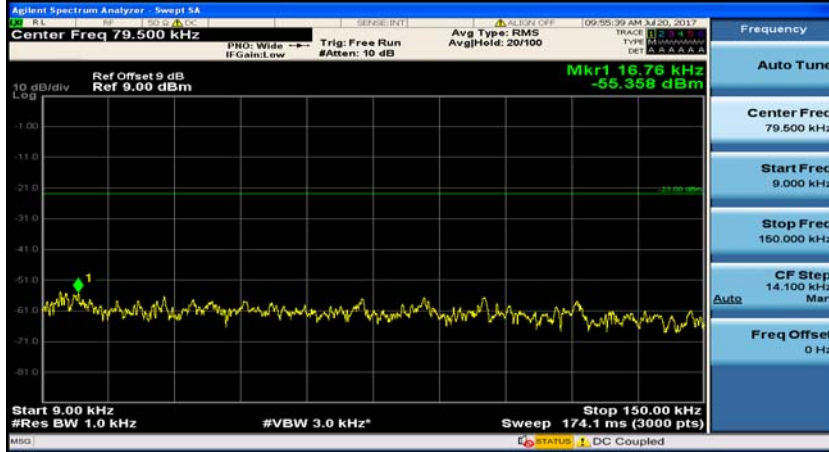


(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#37

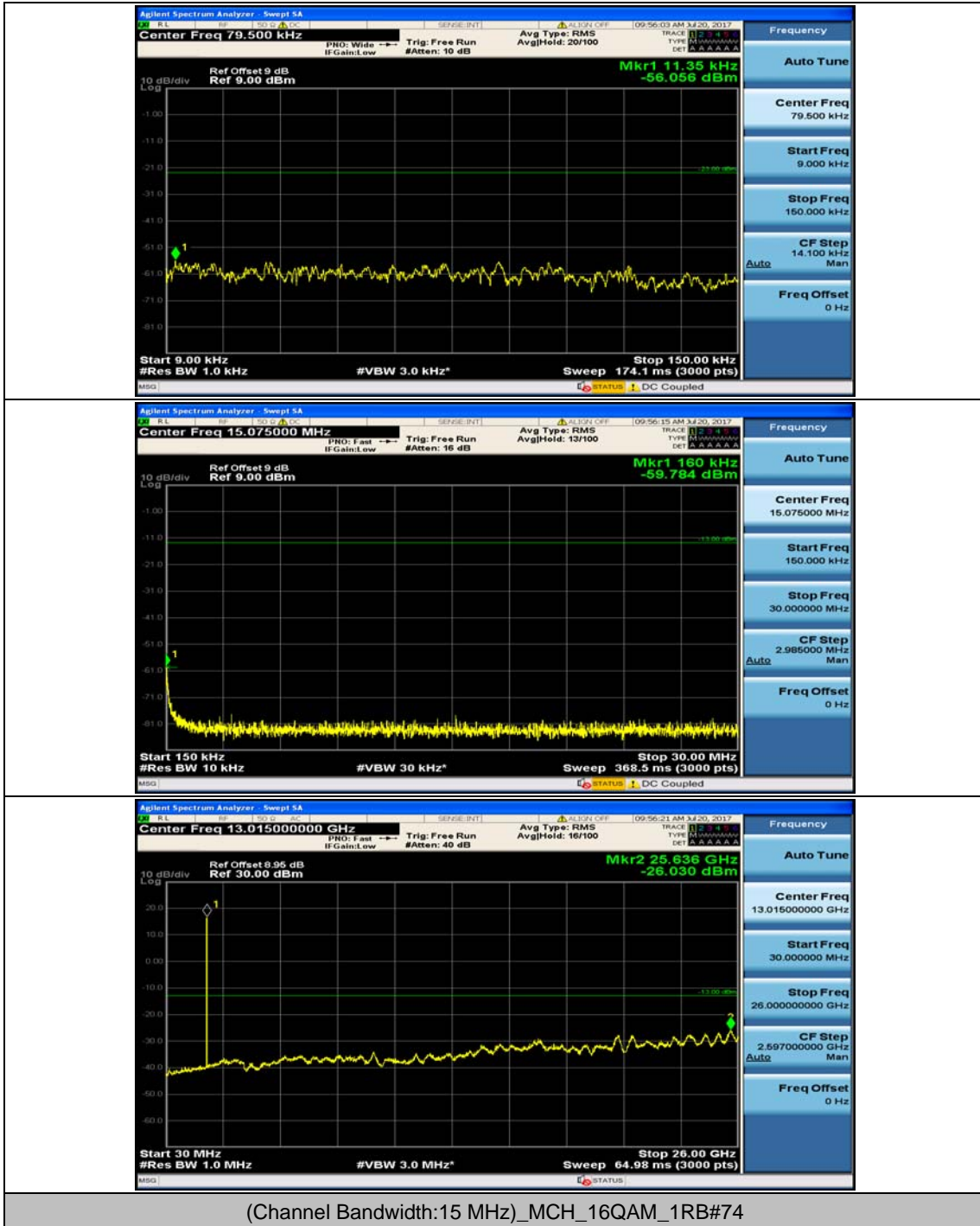


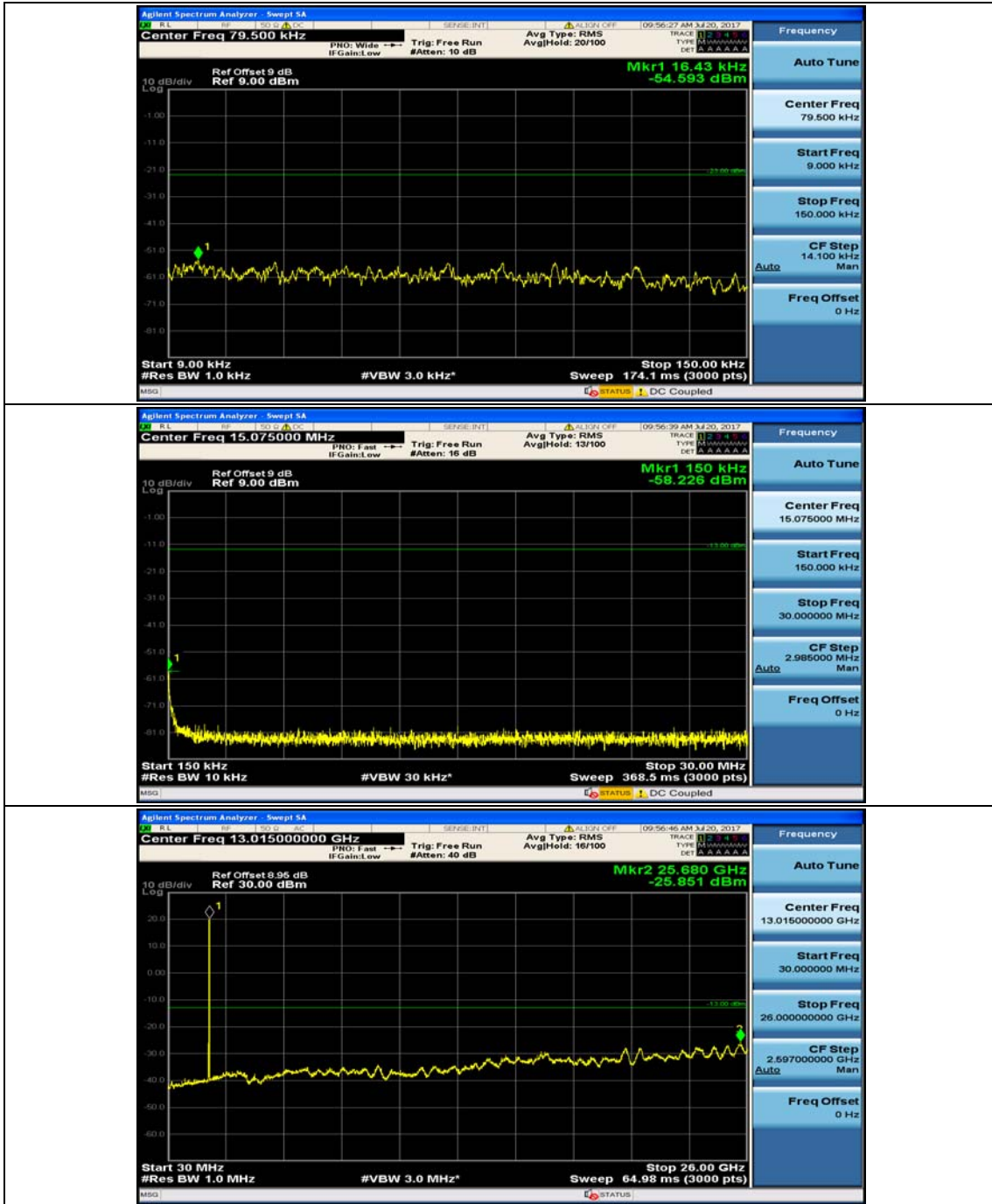


(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#0

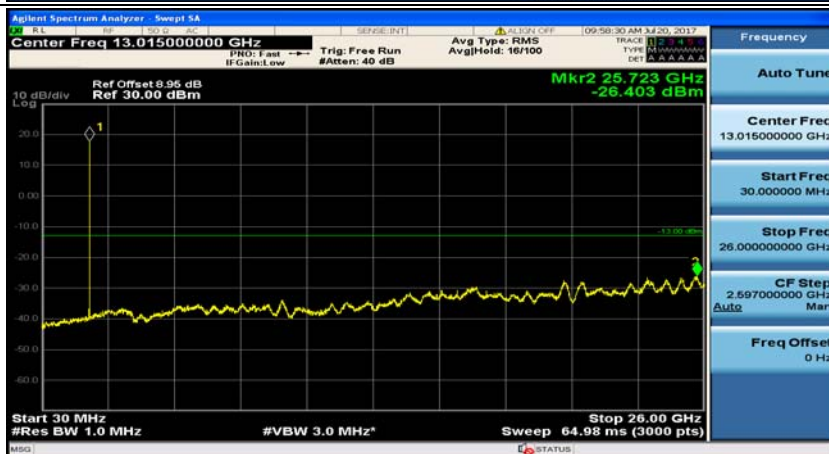
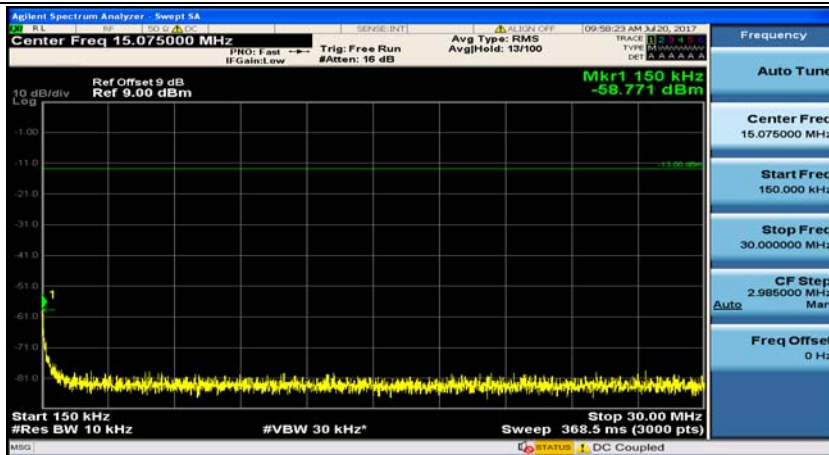
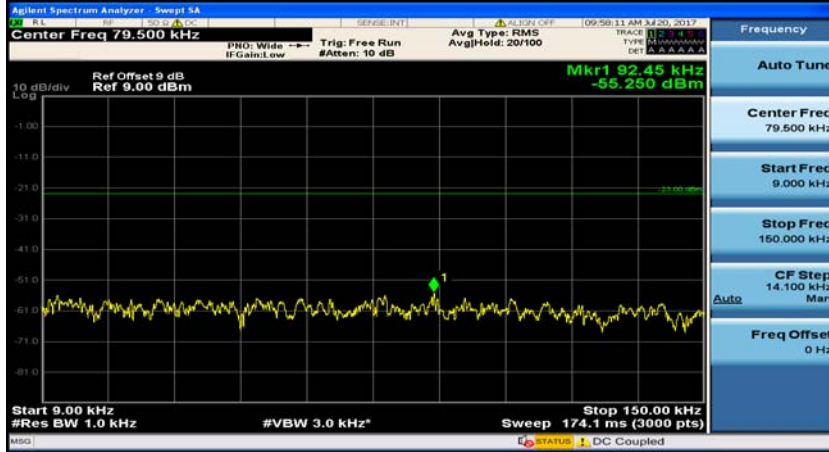


(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#37

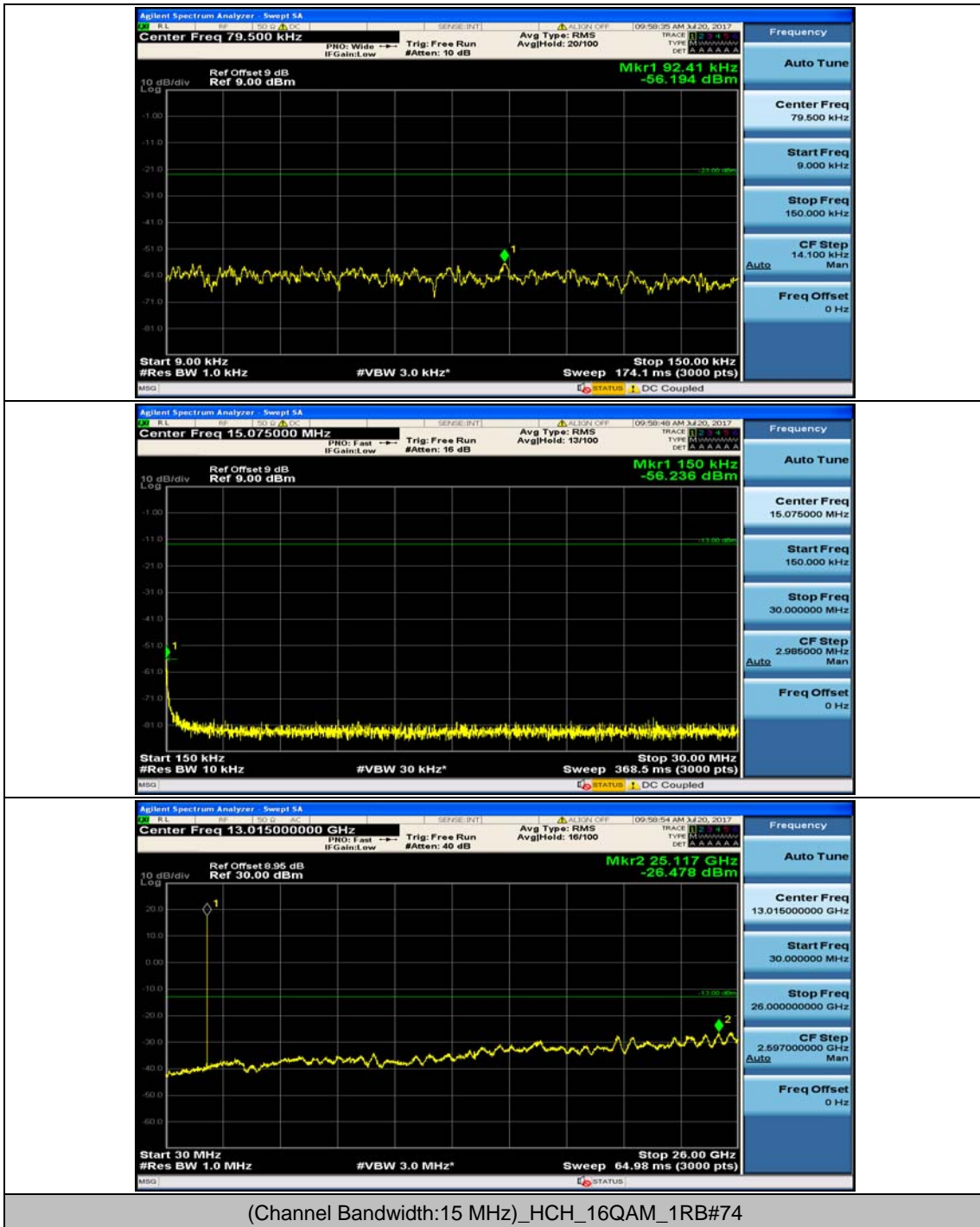


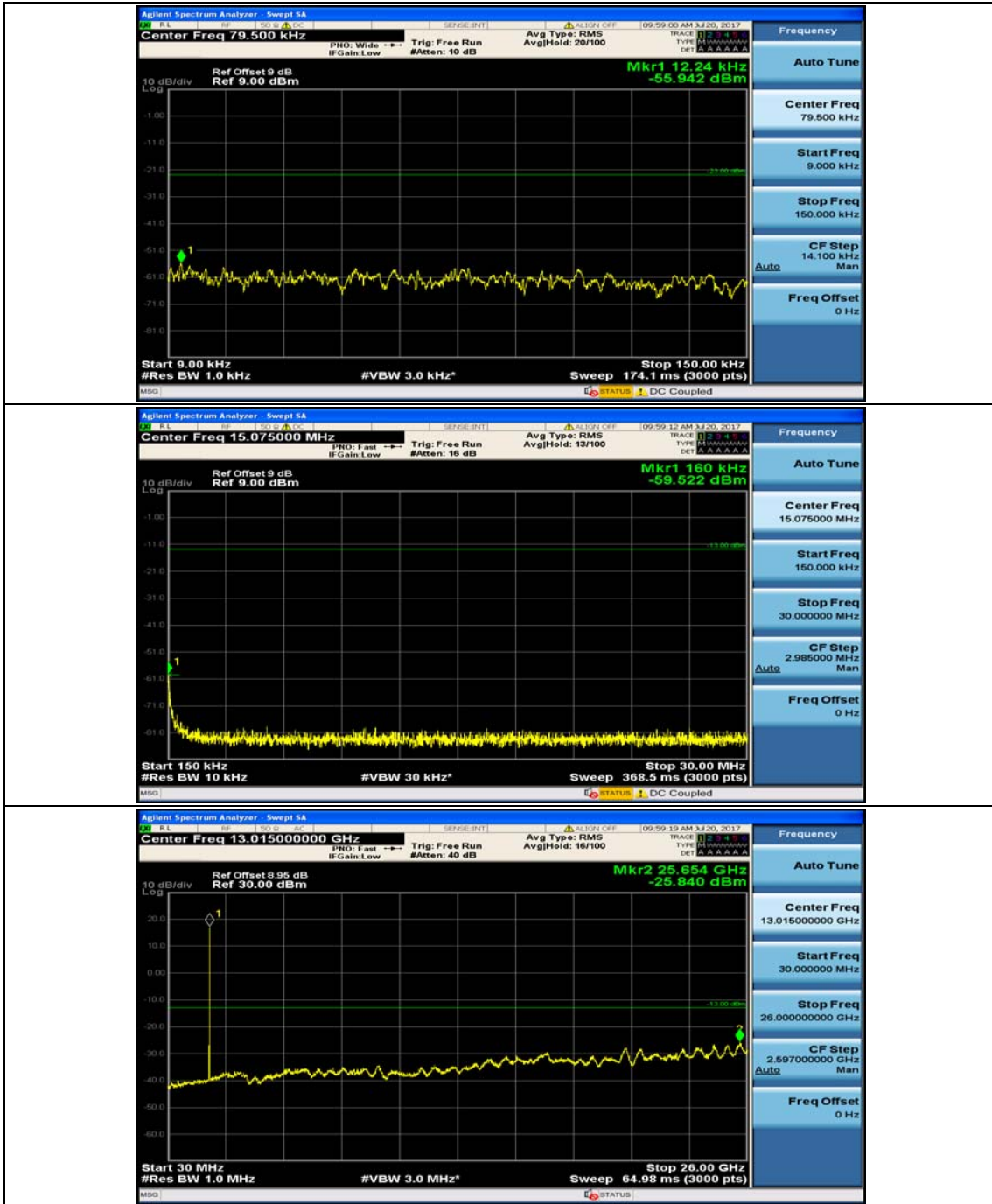


(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#0

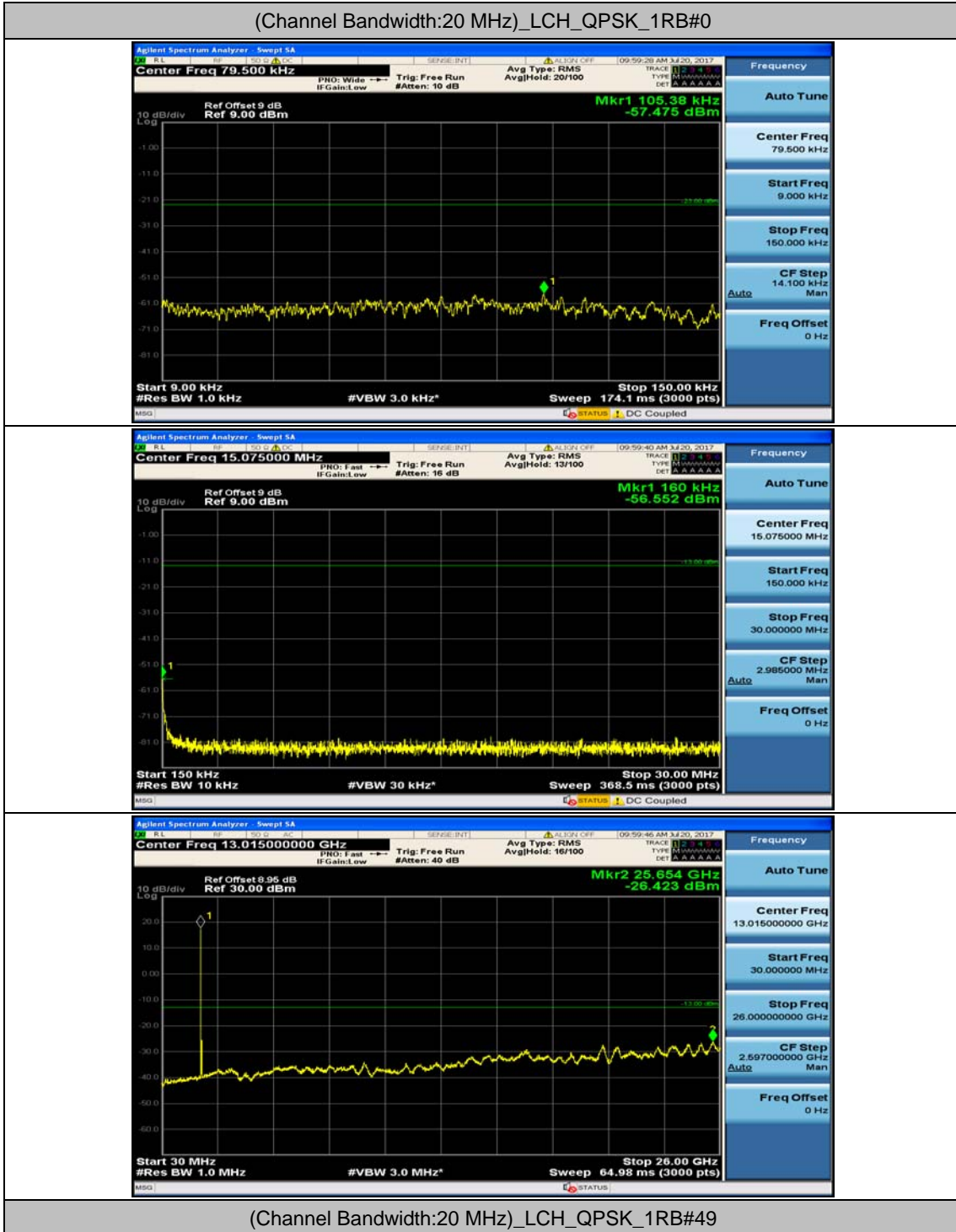


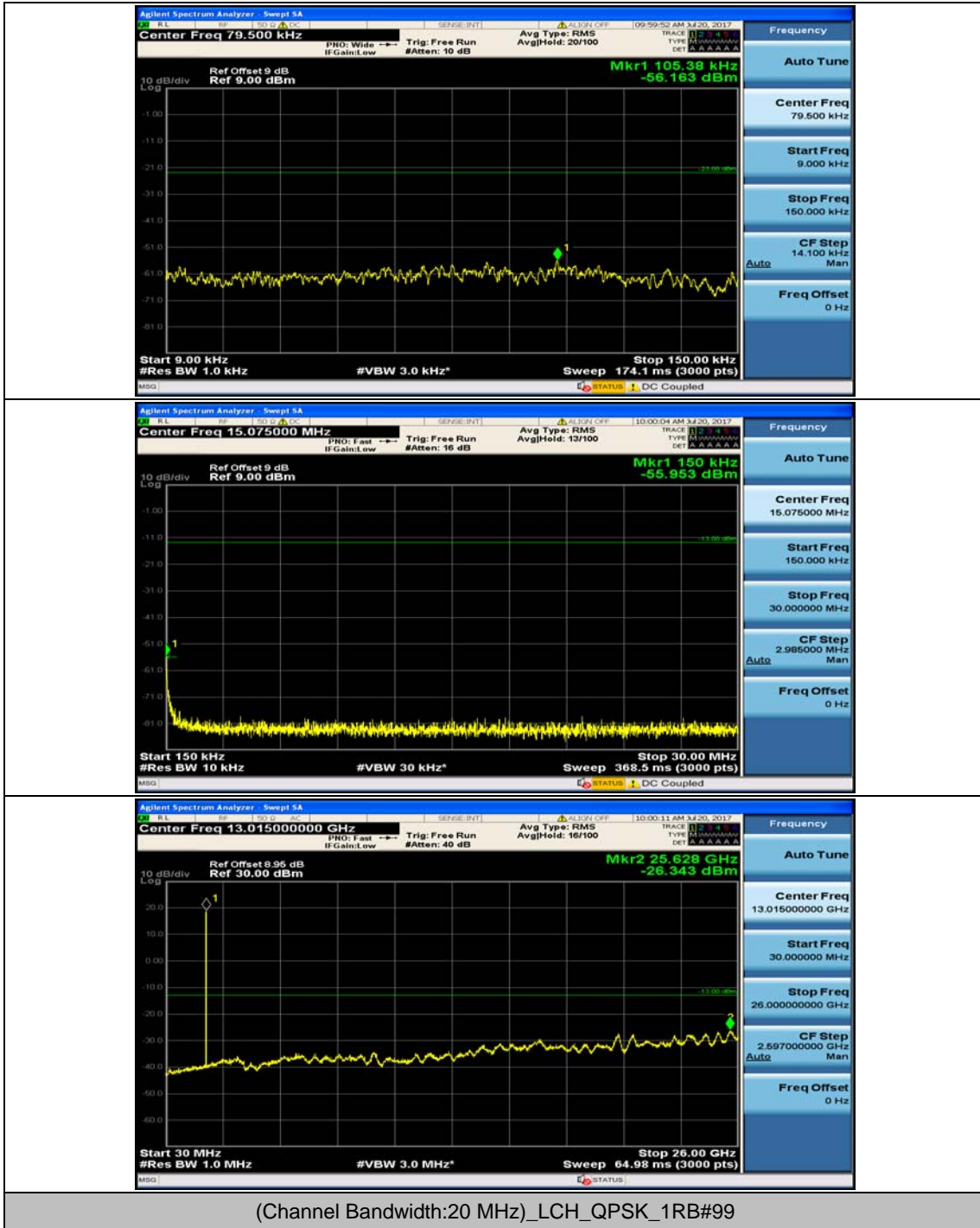
(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#37

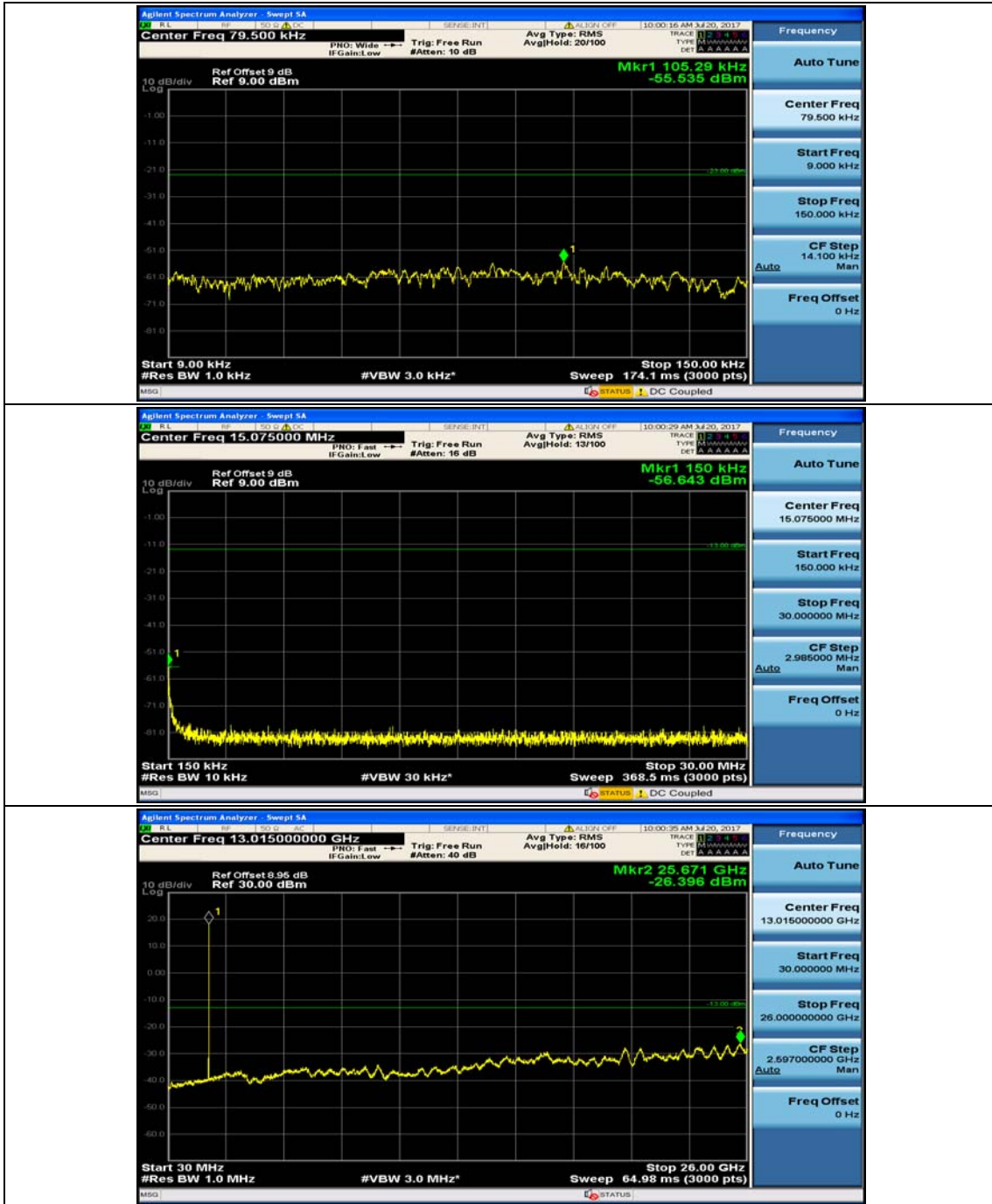




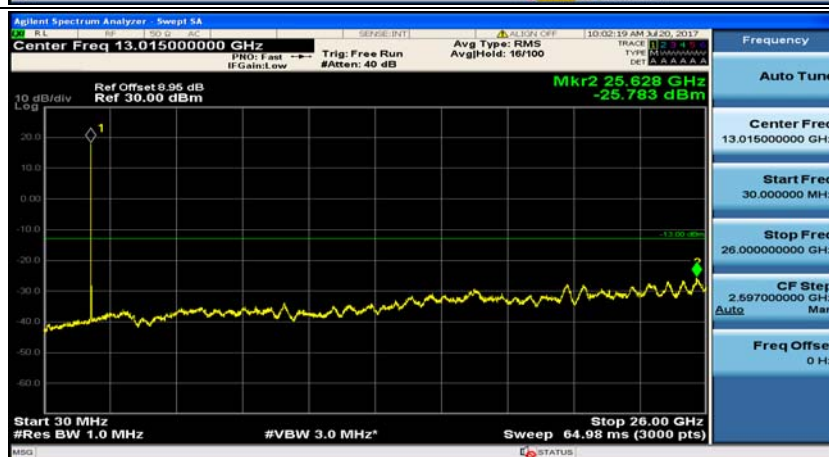
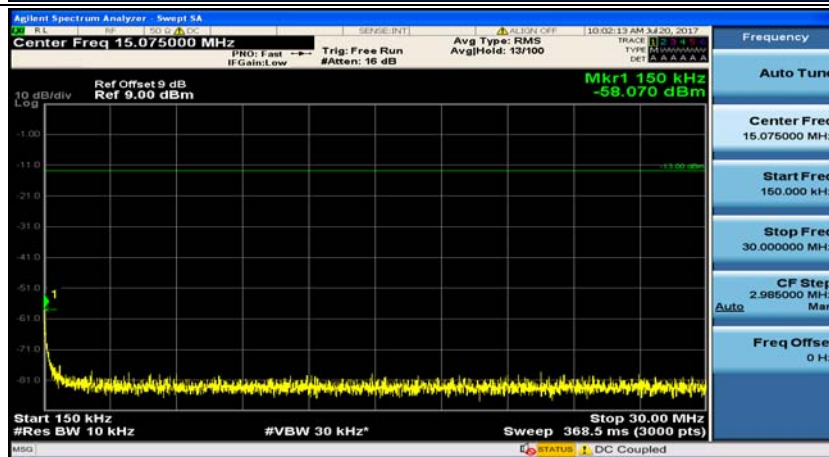
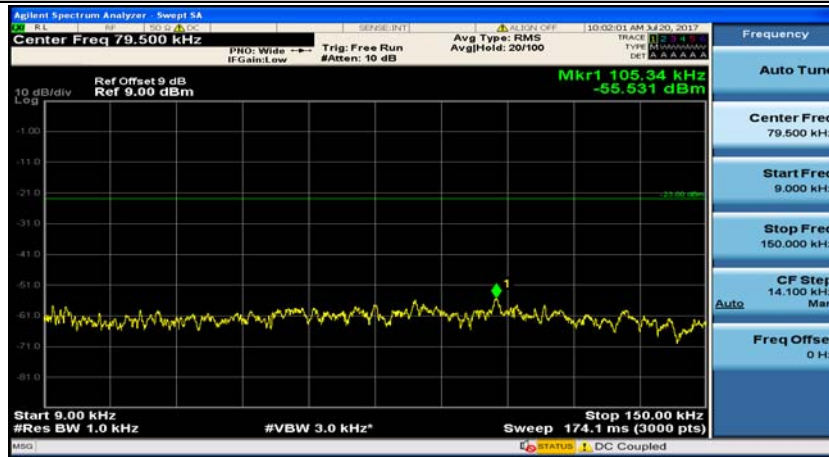
Channel Bandwidth: 20 MHz



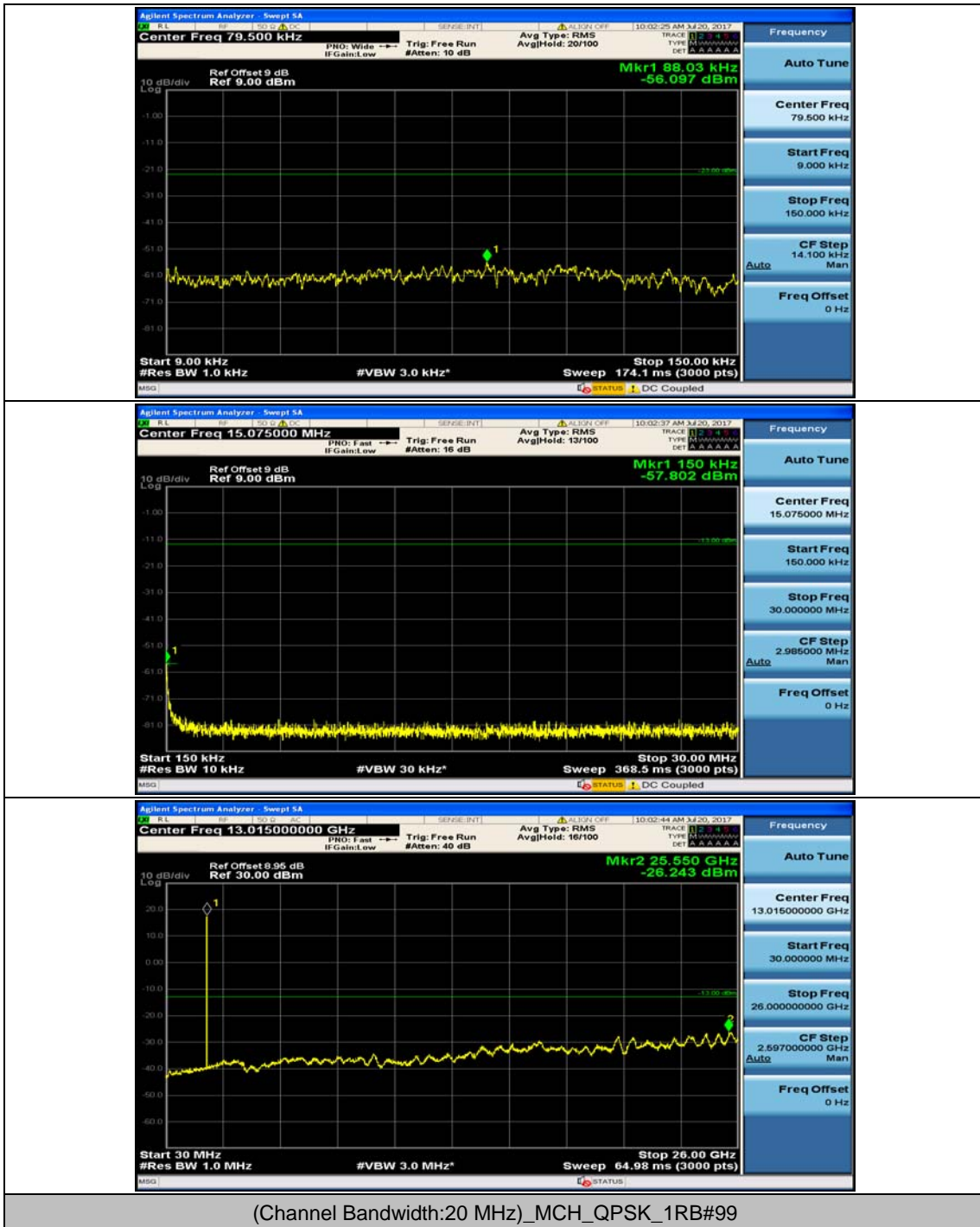


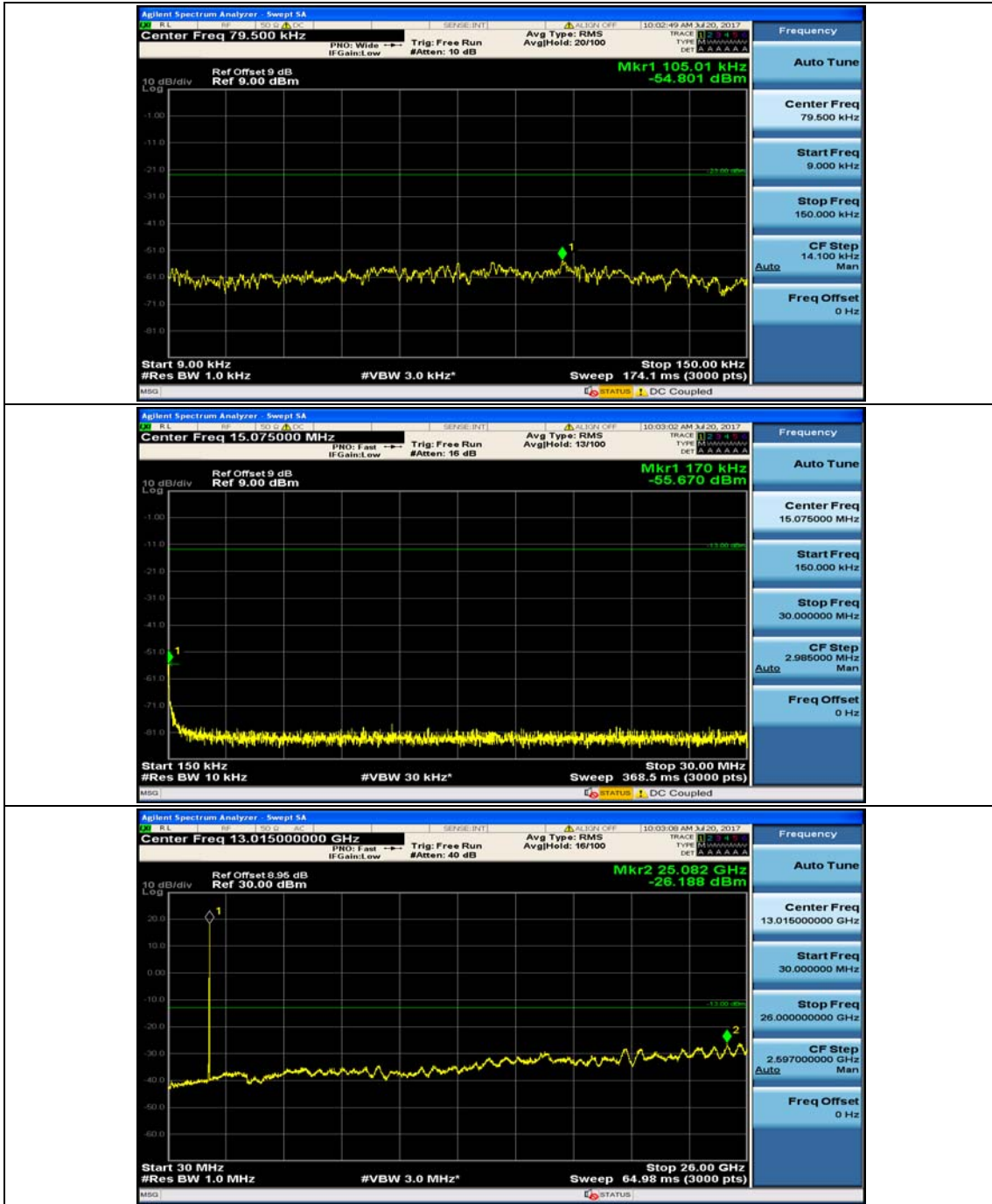


(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#0

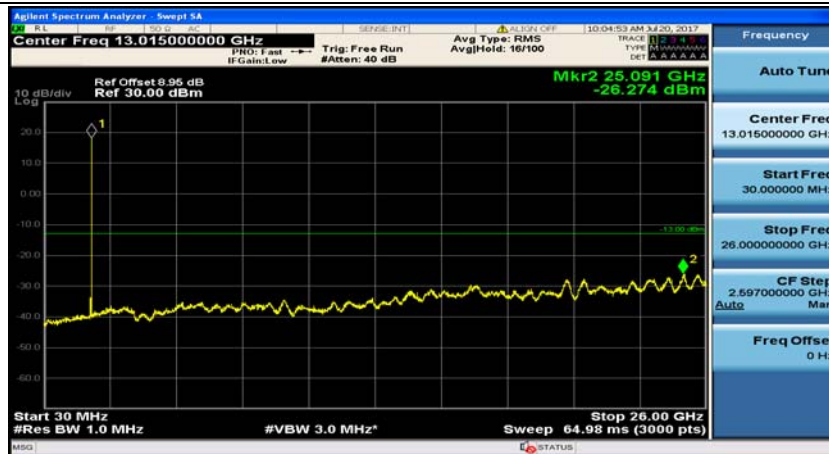
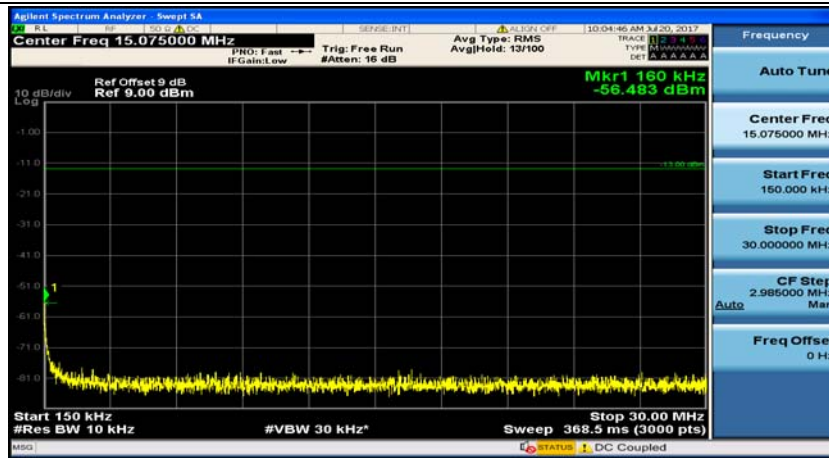


(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#49

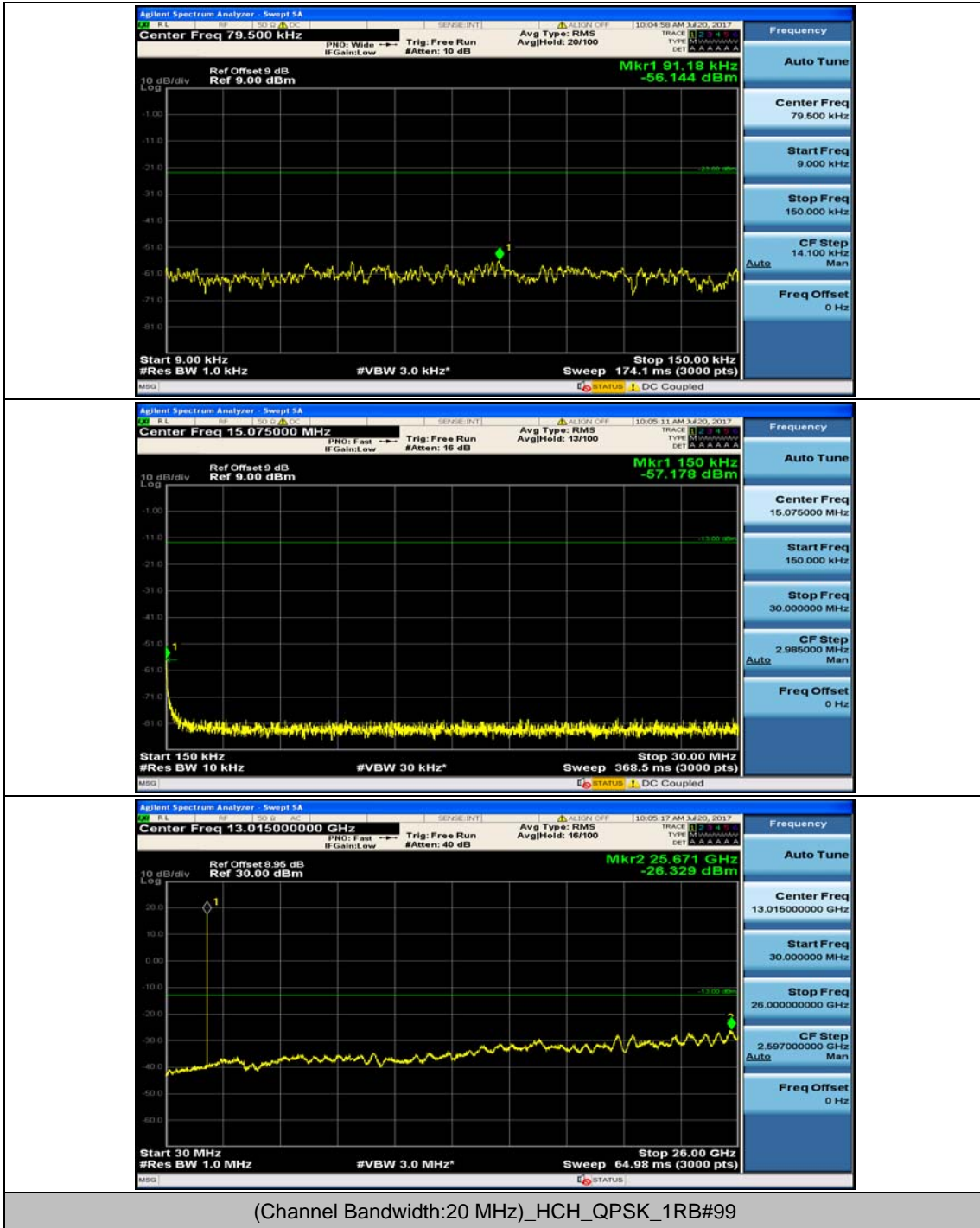


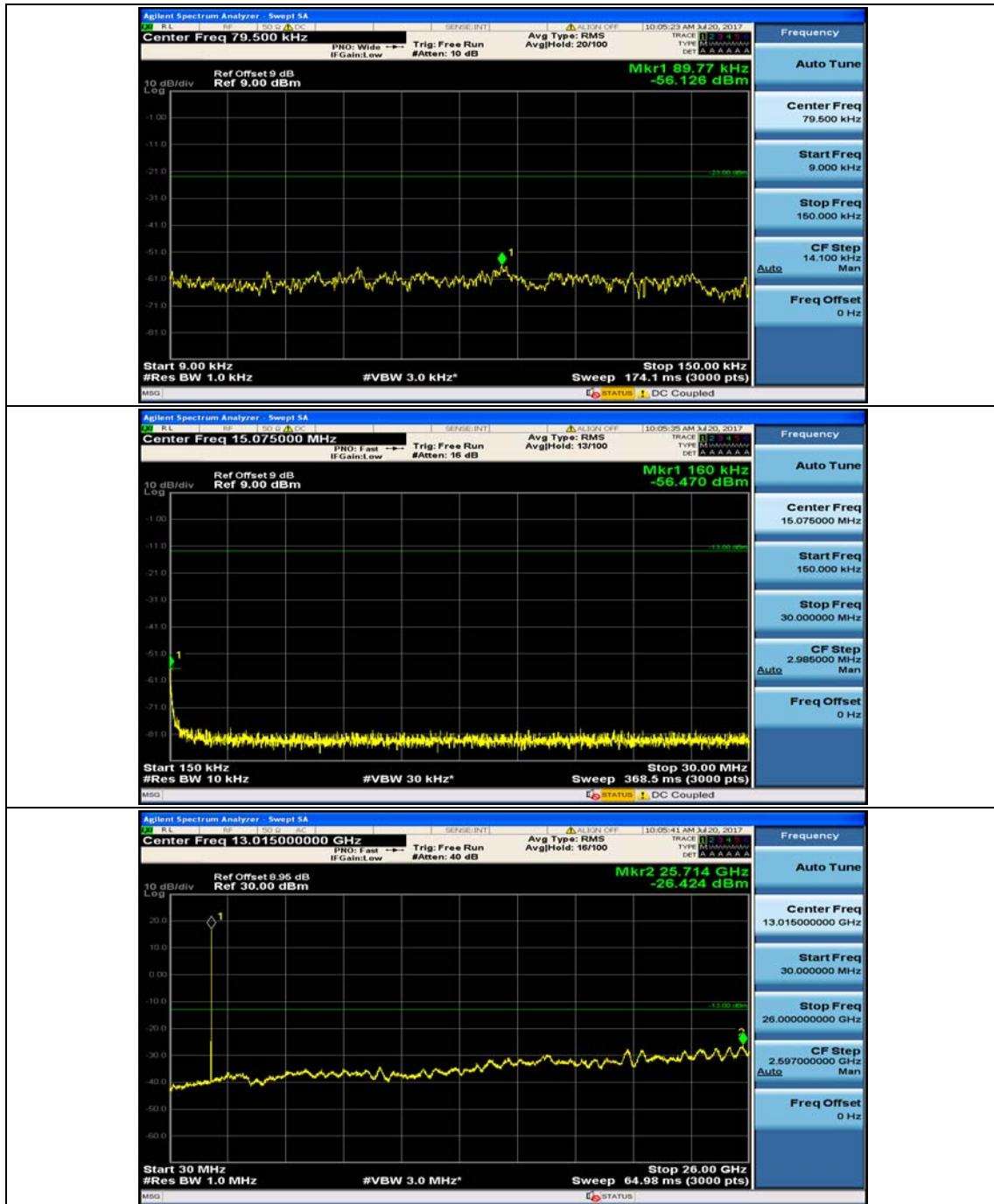


(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#0

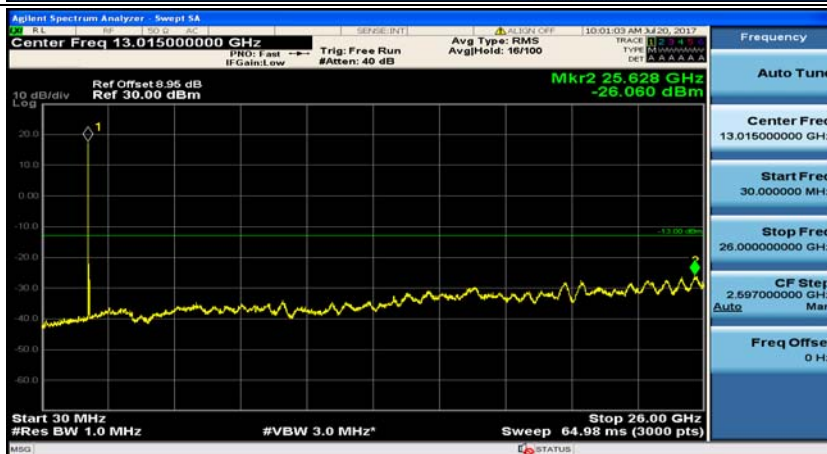
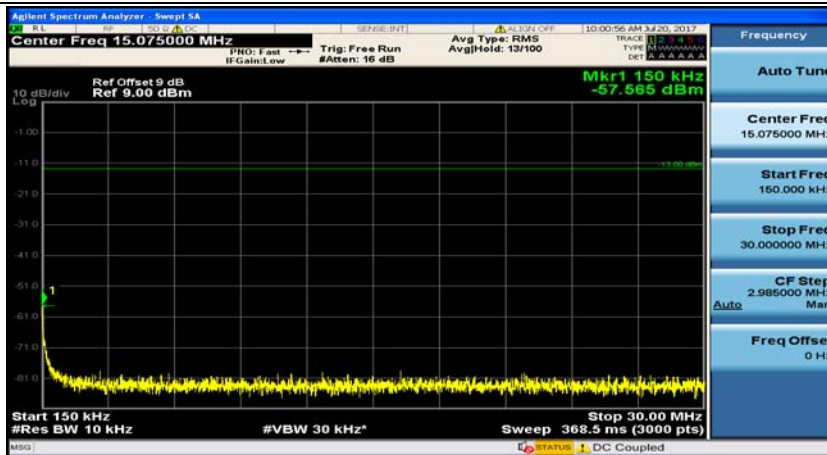
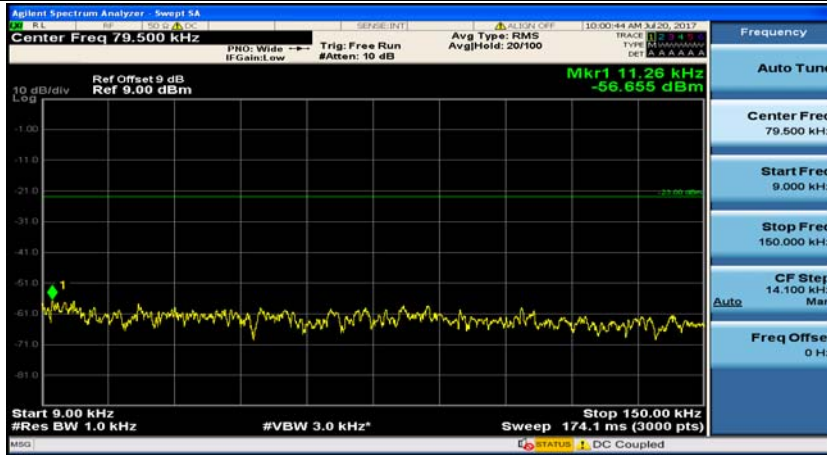


(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#49

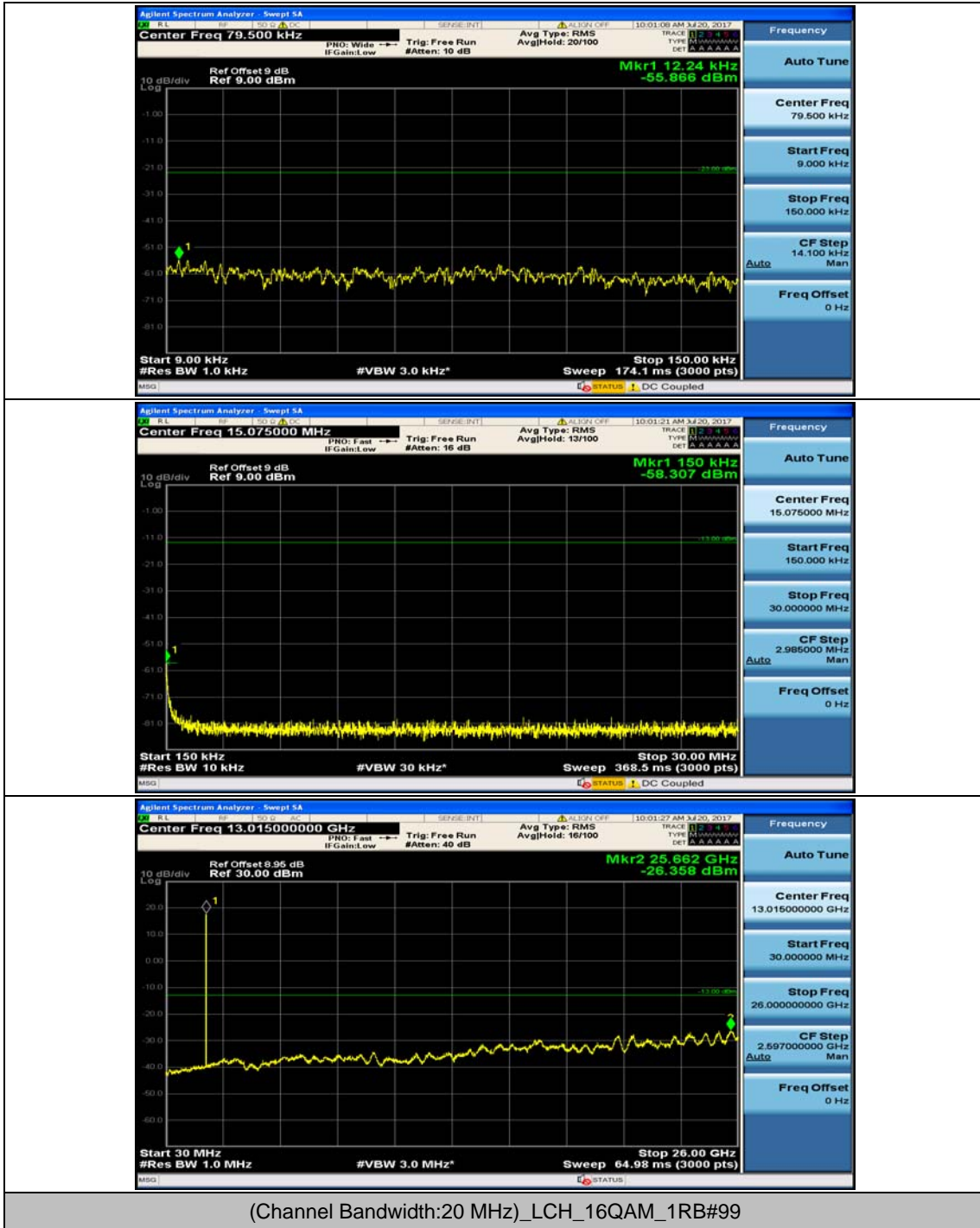


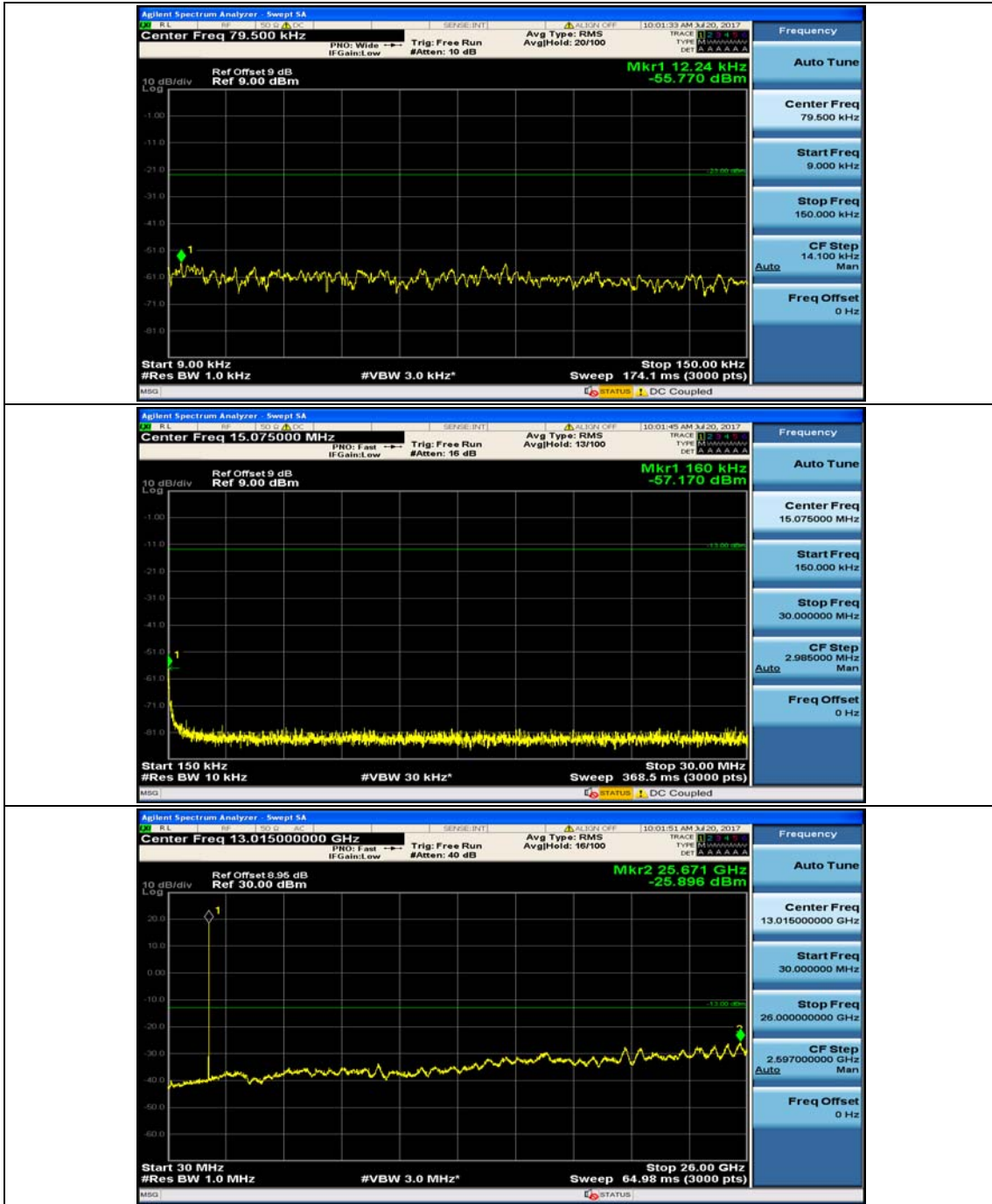


(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#0

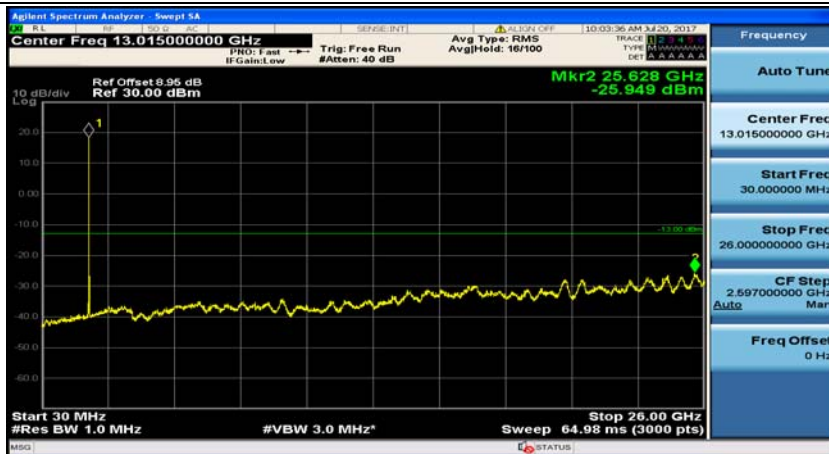
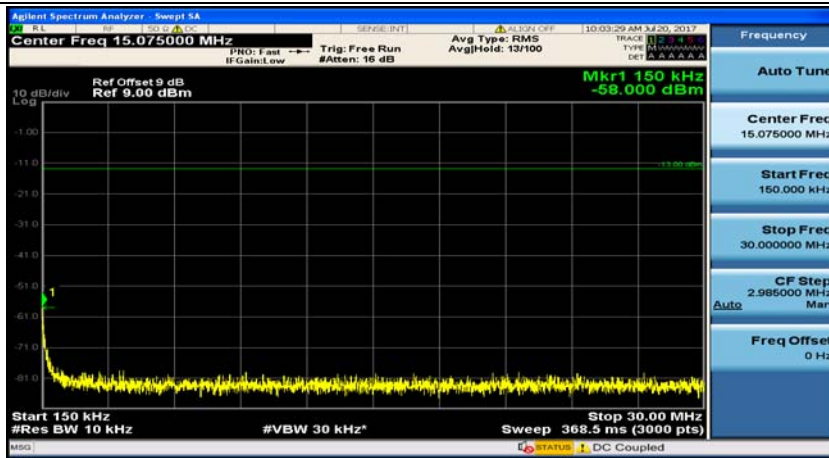


(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#49

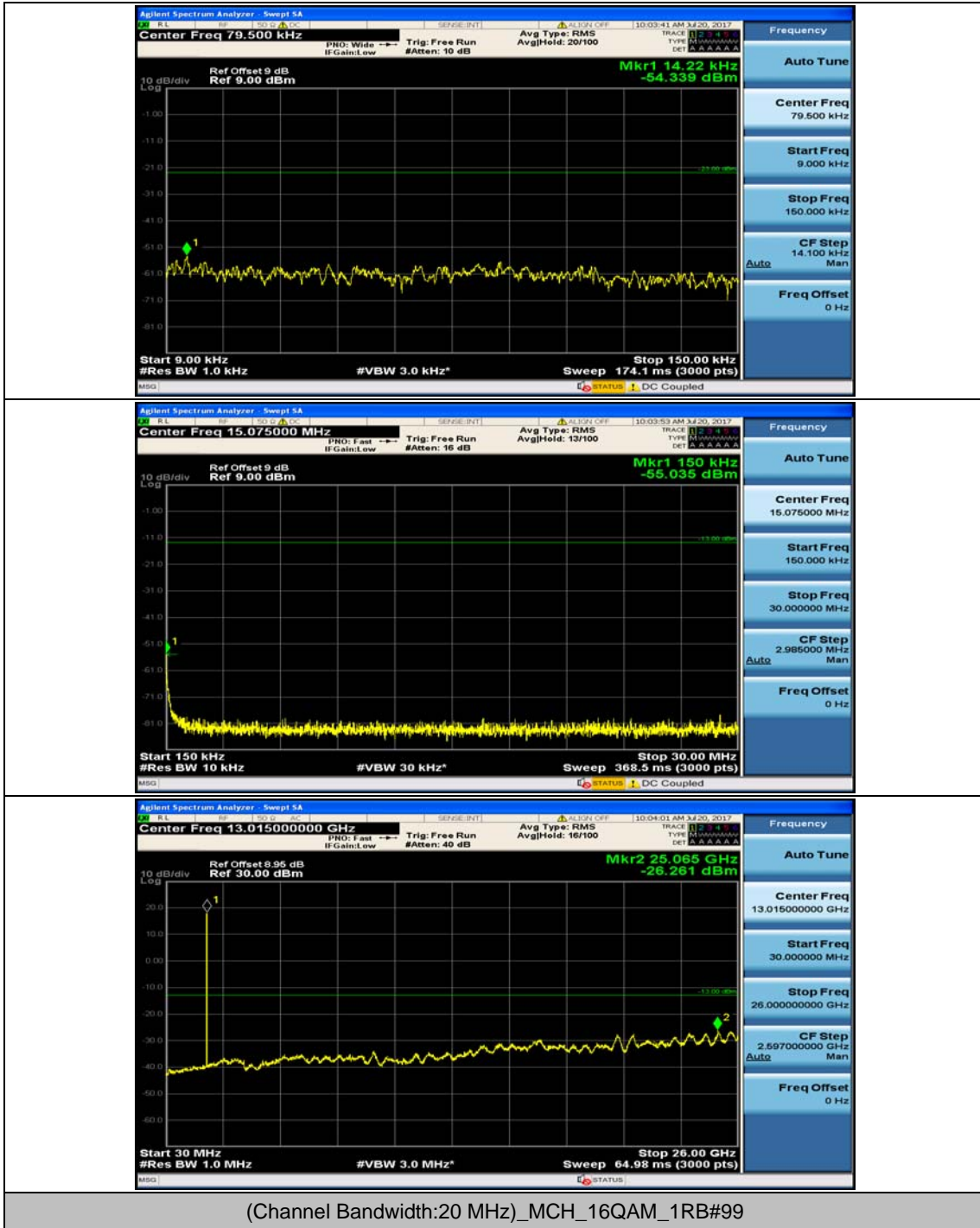


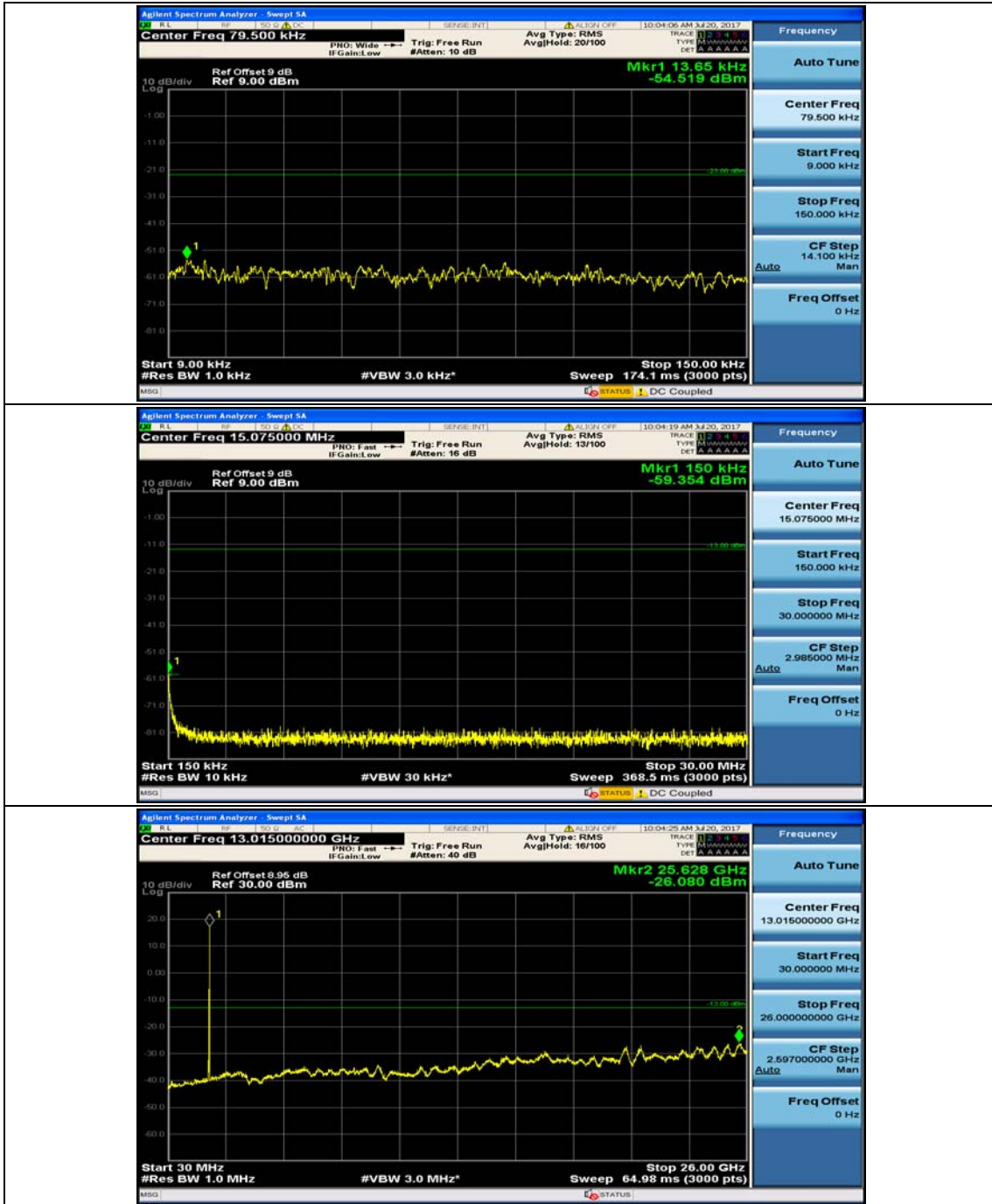


(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#0

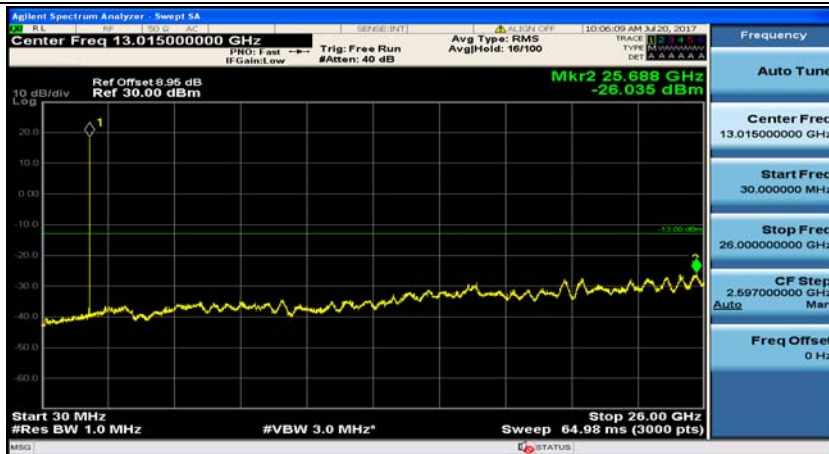
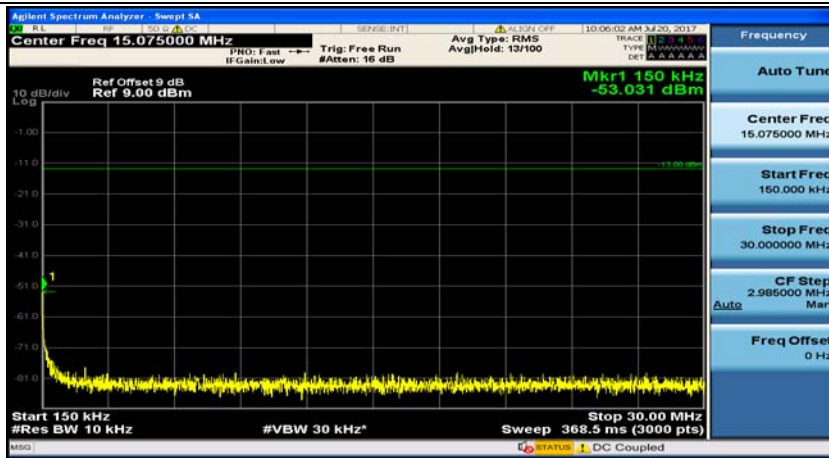
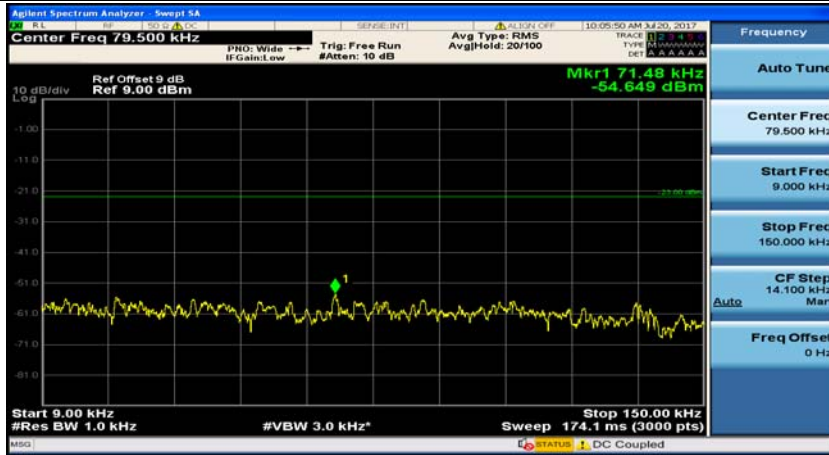


(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#49

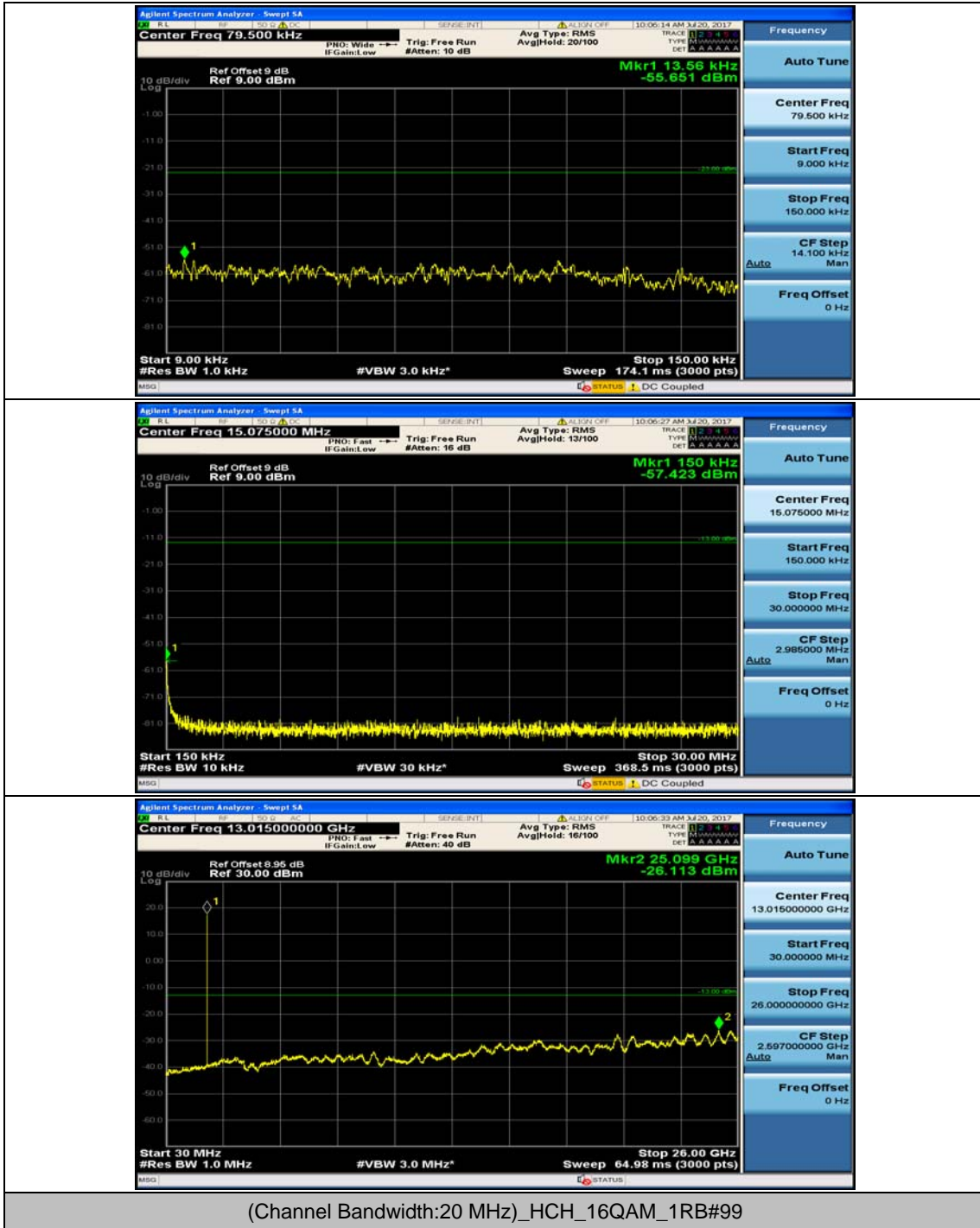


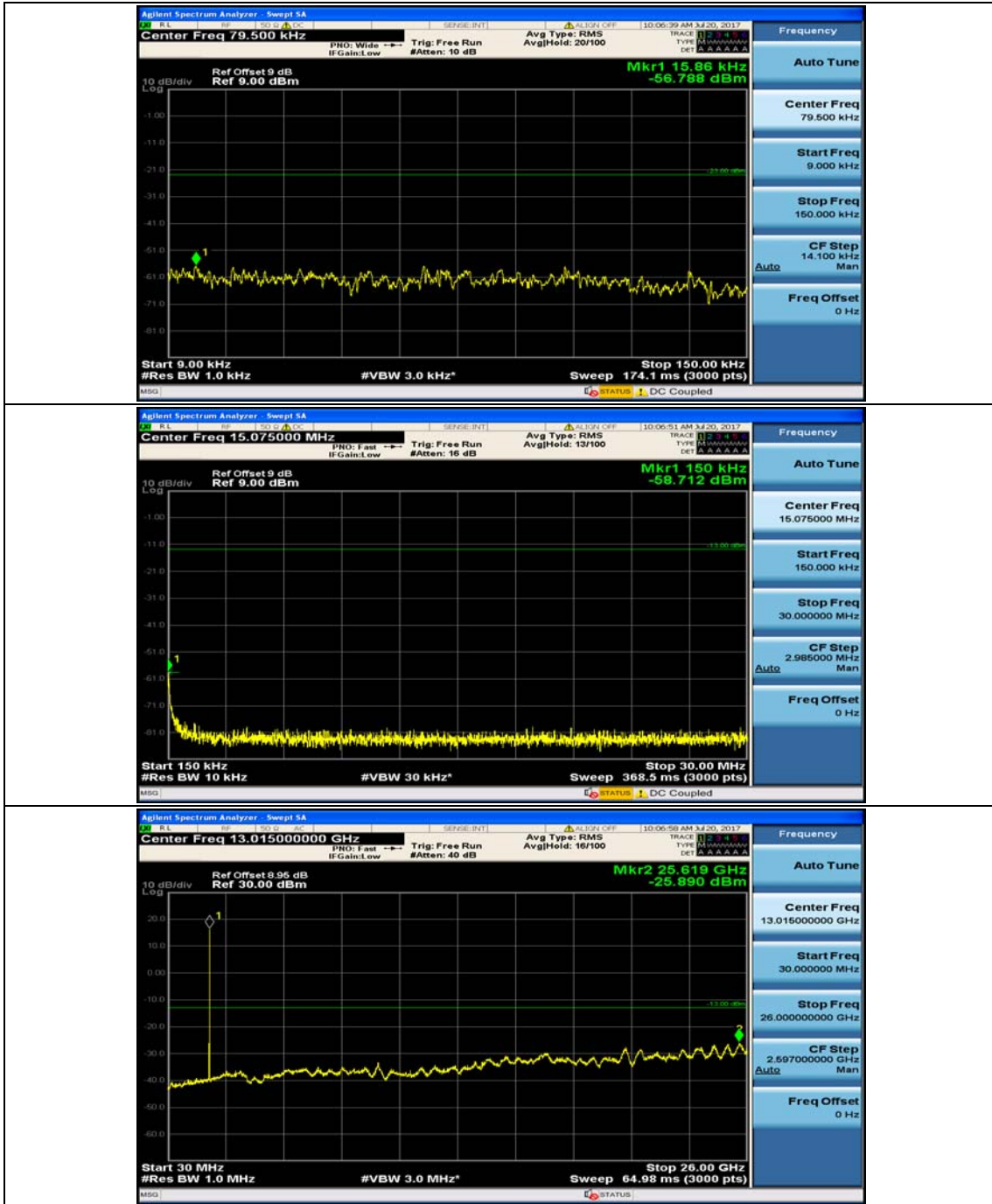


(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#0



(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	-0.86	-0.000462	± 2.5	PASS
		VN	TN	-0.66	-0.000355	± 2.5	PASS
		VH	TN	-1.17	-0.000629	± 2.5	PASS
	MCH	VL	TN	-0.68	-0.000362	± 2.5	PASS
		VN	TN	-1.16	-0.000617	± 2.5	PASS
		VH	TN	0.03	0.000016	± 2.5	PASS
	HCH	VL	TN	1.11	0.000584	± 2.5	PASS
		VN	TN	3.8	0.002000	± 2.5	PASS
		VH	TN	-1.83	-0.000963	± 2.5	PASS
16QAM	LCH	VL	TN	-0.04	-0.000022	± 2.5	PASS
		VN	TN	1.7	0.000914	± 2.5	PASS
		VH	TN	3.94	0.002118	± 2.5	PASS
	MCH	VL	TN	0.55	0.000293	± 2.5	PASS
		VN	TN	3.08	0.001638	± 2.5	PASS
		VH	TN	-1.55	-0.000824	± 2.5	PASS
	HCH	VL	TN	-0.71	-0.000374	± 2.5	PASS
		VN	TN	0.37	0.000195	± 2.5	PASS
		VH	TN	-1.02	-0.000537	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.83	0.002597	± 2.5	PASS
		VN	-20	1.17	0.000629	± 2.5	PASS
		VN	-10	-1.62	-0.000871	± 2.5	PASS
		VN	0	4.28	0.002301	± 2.5	PASS
		VN	10	2.14	0.001151	± 2.5	PASS
		VN	20	4.35	0.002339	± 2.5	PASS
		VN	30	1.49	0.000801	± 2.5	PASS
		VN	40	4.69	0.002522	± 2.5	PASS
		VN	50	0.57	0.000306	± 2.5	PASS
	MCH	VN	-30	-1.96	-0.001043	± 2.5	PASS

	VN	-20	2.64	0.001404	± 2.5	PASS	
		-10	0.36	0.000191	± 2.5	PASS	
		0	3.88	0.002064	± 2.5	PASS	
		10	3.59	0.001910	± 2.5	PASS	
		20	-1.72	-0.000915	± 2.5	PASS	
		30	0.81	0.000431	± 2.5	PASS	
		40	2.71	0.001441	± 2.5	PASS	
		50	2.68	0.001426	± 2.5	PASS	
	HCH	VN	-30	-0.09	-0.000047	± 2.5	PASS
		VN	-20	3.55	0.001868	± 2.5	PASS
		VN	-10	2.31	0.001216	± 2.5	PASS
		VN	0	2.18	0.001147	± 2.5	PASS
		VN	10	3.43	0.001805	± 2.5	PASS
		VN	20	-0.46	-0.000242	± 2.5	PASS
		VN	30	4.61	0.002426	± 2.5	PASS
		VN	40	-0.21	-0.000111	± 2.5	PASS
		VN	50	3.24	0.001705	± 2.5	PASS
		16QAM	LCH	VN	-30	-1.4	-0.000753
VN	-20			4.26	0.002290	± 2.5	PASS
VN	-10			3.18	0.001710	± 2.5	PASS
VN	0			-1.64	-0.000882	± 2.5	PASS
VN	10			2.92	0.001570	± 2.5	PASS
VN	20			0.18	0.000097	± 2.5	PASS
VN	30			4.77	0.002565	± 2.5	PASS
VN	40			1.95	0.001048	± 2.5	PASS
VN	50			-1.64	-0.000882	± 2.5	PASS
MCH	VN		-30	-1.65	-0.000878	± 2.5	PASS
	VN		-20	-0.5	-0.000266	± 2.5	PASS
	VN		-10	-1.38	-0.000734	± 2.5	PASS
	VN		0	1.96	0.001043	± 2.5	PASS
	VN		10	3.47	0.001846	± 2.5	PASS
	VN		20	1.81	0.000963	± 2.5	PASS
	VN		30	4.9	0.002606	± 2.5	PASS
	VN		40	3.19	0.001697	± 2.5	PASS
	VN		50	2.59	0.001378	± 2.5	PASS
HCH	VN		-30	0.61	0.000321	± 2.5	PASS
	VN		-20	0.5	0.000263	± 2.5	PASS
	VN		-10	0.53	0.000279	± 2.5	PASS
	VN		0	-1.99	-0.001047	± 2.5	PASS
	VN		10	-0.71	-0.000374	± 2.5	PASS
	VN		20	3.66	0.001926	± 2.5	PASS

		VN	30	-0.13	-0.000068	± 2.5	PASS
		VN	40	1.79	0.000942	± 2.5	PASS
		VN	50	0.89	0.000468	± 2.5	PASS

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz+							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	3.15	0.001694	± 2.5	PASS
		VN	TN	0.76	0.000409	± 2.5	PASS
		VH	TN	-0.46	-0.000247	± 2.5	PASS
	MCH	VL	TN	-0.71	-0.000378	± 2.5	PASS
		VN	TN	-0.39	-0.000207	± 2.5	PASS
		VH	TN	1.38	0.000734	± 2.5	PASS
	HCH	VL	TN	0.43	0.000226	± 2.5	PASS
		VN	TN	2.51	0.001321	± 2.5	PASS
		VH	TN	0.8	0.000421	± 2.5	PASS
16QAM	LCH	VL	TN	-0.48	-0.000258	± 2.5	PASS
		VN	TN	3.75	0.002016	± 2.5	PASS
		VH	TN	2.33	0.001253	± 2.5	PASS
	MCH	VL	TN	-1.08	-0.000574	± 2.5	PASS
		VN	TN	3.01	0.001601	± 2.5	PASS
		VH	TN	-1.73	-0.000920	± 2.5	PASS
	HCH	VL	TN	1.32	0.000695	± 2.5	PASS
		VN	TN	3.85	0.002026	± 2.5	PASS
		VH	TN	1.87	0.000984	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.88	0.002624	± 2.5	PASS
		VN	-20	0.98	0.000527	± 2.5	PASS
		VN	-10	0.05	0.000027	± 2.5	PASS
		VN	0	-0.76	-0.000409	± 2.5	PASS
		VN	10	2.9	0.001559	± 2.5	PASS
		VN	20	0.82	0.000441	± 2.5	PASS
		VN	30	1.48	0.000796	± 2.5	PASS
		VN	40	1.41	0.000758	± 2.5	PASS
		VN	50	0.75	0.000403	± 2.5	PASS
	MCH	VN	-30	1.34	0.000713	± 2.5	PASS
		VN	-20	-0.56	-0.000298	± 2.5	PASS

		VN	-10	4.93	0.002622	± 2.5	PASS		
		VN	0	2.07	0.001101	± 2.5	PASS		
		VN	10	3.75	0.001995	± 2.5	PASS		
		VN	20	-0.89	-0.000473	± 2.5	PASS		
		VN	30	0.33	0.000176	± 2.5	PASS		
		VN	40	2.47	0.001314	± 2.5	PASS		
		VN	50	4.06	0.002160	± 2.5	PASS		
	HCH	VN	-30	3.51	0.001847	± 2.5	PASS		
		VN	-20	3.82	0.002011	± 2.5	PASS		
		VN	-10	0.17	0.000089	± 2.5	PASS		
		VN	0	3.7	0.001947	± 2.5	PASS		
		VN	10	2.73	0.001437	± 2.5	PASS		
		VN	20	1.16	0.000611	± 2.5	PASS		
		VN	30	3.17	0.001668	± 2.5	PASS		
		VN	40	2.15	0.001132	± 2.5	PASS		
		VN	50	-1.59	-0.000837	± 2.5	PASS		
		16QAM	LCH	VN	-30	1.73	0.000930	± 2.5	PASS
				VN	-20	2.34	0.001258	± 2.5	PASS
VN	-10			2.41	0.001296	± 2.5	PASS		
VN	0			2.44	0.001312	± 2.5	PASS		
VN	10			1.98	0.001065	± 2.5	PASS		
VN	20			1.96	0.001054	± 2.5	PASS		
VN	30			2.25	0.001210	± 2.5	PASS		
VN	40			-0.86	-0.000462	± 2.5	PASS		
VN	50			2.51	0.001349	± 2.5	PASS		
MCH	VN		-30	4.48	0.002383	± 2.5	PASS		
	VN		-20	-1.24	-0.000660	± 2.5	PASS		
	VN		-10	-0.55	-0.000293	± 2.5	PASS		
	VN		0	3.54	0.001883	± 2.5	PASS		
	VN		10	0.69	0.000367	± 2.5	PASS		
	VN		20	2.33	0.001239	± 2.5	PASS		
	VN		30	2.2	0.001170	± 2.5	PASS		
	VN		40	2.2	0.001170	± 2.5	PASS		
	VN		50	2.56	0.001362	± 2.5	PASS		
HCH	VN		-30	0.5	0.000263	± 2.5	PASS		
	VN		-20	3.44	0.001811	± 2.5	PASS		
	VN		-10	0.25	0.000132	± 2.5	PASS		
	VN		0	-0.75	-0.000395	± 2.5	PASS		
	VN		10	4.9	0.002579	± 2.5	PASS		
	VN		20	3.74	0.001968	± 2.5	PASS		
	VN		30	0.49	0.000258	± 2.5	PASS		

		VN	40	4.73	0.002489	± 2.5	PASS
		VN	50	-1.95	-0.001026	± 2.5	PASS

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	4.22	0.002269	± 2.5	PASS
		VN	TN	0.1	0.000054	± 2.5	PASS
		VH	TN	0.85	0.000457	± 2.5	PASS
	MCH	VL	TN	1.03	0.000548	± 2.5	PASS
		VN	TN	1.69	0.000899	± 2.5	PASS
		VH	TN	-1.86	-0.000989	± 2.5	PASS
	HCH	VL	TN	1.28	0.000674	± 2.5	PASS
		VN	TN	0.06	0.000032	± 2.5	PASS
		VH	TN	4.47	0.002353	± 2.5	PASS
16QAM	LCH	VL	TN	-1.47	-0.000790	± 2.5	PASS
		VN	TN	-0.06	-0.000032	± 2.5	PASS
		VH	TN	0.6	0.000323	± 2.5	PASS
	MCH	VL	TN	-1.39	-0.000739	± 2.5	PASS
		VN	TN	-0.17	-0.000090	± 2.5	PASS
		VH	TN	1.73	0.000920	± 2.5	PASS
	HCH	VL	TN	-0.12	-0.000063	± 2.5	PASS
		VN	TN	2.28	0.001200	± 2.5	PASS
		VH	TN	-1.95	-0.001026	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.4	-0.000215	± 2.5	PASS
		VN	-20	2.38	0.001280	± 2.5	PASS
		VN	-10	4.24	0.002280	± 2.5	PASS
		VN	0	0.37	0.000199	± 2.5	PASS
		VN	10	-1.38	-0.000742	± 2.5	PASS
		VN	20	2.96	0.001591	± 2.5	PASS
		VN	30	1.95	0.001048	± 2.5	PASS
		VN	40	1.14	0.000613	± 2.5	PASS
		VN	50	3.48	0.001871	± 2.5	PASS
	MCH	VN	-30	-1.89	-0.001005	± 2.5	PASS
		VN	-20	3.14	0.001670	± 2.5	PASS
		VN	-10	2.01	0.001069	± 2.5	PASS

	VN	0	-1.34	-0.000713	± 2.5	PASS			
		10	2.96	0.001574	± 2.5	PASS			
		20	-1.3	-0.000691	± 2.5	PASS			
		30	4.99	0.002654	± 2.5	PASS			
		40	1.9	0.001011	± 2.5	PASS			
		50	-0.92	-0.000489	± 2.5	PASS			
	HCH	VN	-30	0.35	0.000184	± 2.5	PASS		
		VN	-20	-1.36	-0.000716	± 2.5	PASS		
		VN	-10	2.22	0.001168	± 2.5	PASS		
		VN	0	-0.26	-0.000137	± 2.5	PASS		
		VN	10	-1.94	-0.001021	± 2.5	PASS		
		VN	20	2.03	0.001068	± 2.5	PASS		
		VN	30	2.82	0.001484	± 2.5	PASS		
		VN	40	1.43	0.000753	± 2.5	PASS		
		VN	50	-0.37	-0.000195	± 2.5	PASS		
		16QAM	LCH	VN	-30	1.93	0.001038	± 2.5	PASS
				VN	-20	-1.61	-0.000866	± 2.5	PASS
				VN	-10	4.73	0.002543	± 2.5	PASS
VN	0			-1.19	-0.000640	± 2.5	PASS		
VN	10			1.47	0.000790	± 2.5	PASS		
VN	20			-1.61	-0.000866	± 2.5	PASS		
VN	30			-1.25	-0.000672	± 2.5	PASS		
VN	40			-1.6	-0.000860	± 2.5	PASS		
VN	50			-1.02	-0.000548	± 2.5	PASS		
MCH	VN		-30	-0.4	-0.000213	± 2.5	PASS		
	VN		-20	3.08	0.001638	± 2.5	PASS		
	VN		-10	0.63	0.000335	± 2.5	PASS		
	VN		0	-1.24	-0.000660	± 2.5	PASS		
	VN		10	2.39	0.001271	± 2.5	PASS		
	VN		20	2.72	0.001447	± 2.5	PASS		
	VN		30	0.46	0.000245	± 2.5	PASS		
	VN		40	-1.39	-0.000739	± 2.5	PASS		
	VN		50	3.95	0.002101	± 2.5	PASS		
HCH	VN		-30	3.05	0.001605	± 2.5	PASS		
	VN		-20	4.69	0.002468	± 2.5	PASS		
	VN		-10	3.64	0.001916	± 2.5	PASS		
	VN		0	-1.66	-0.000874	± 2.5	PASS		
	VN		10	-0.96	-0.000505	± 2.5	PASS		
	VN		20	3.16	0.001663	± 2.5	PASS		
	VN		30	2.35	0.001237	± 2.5	PASS		
	VN		40	1.35	0.000711	± 2.5	PASS		

		VN	50	0.56	0.000295	± 2.5	PASS
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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	1.66	0.000892	± 2.5	PASS
		VN	TN	-1.31	-0.000704	± 2.5	PASS
		VH	TN	0.01	0.000005	± 2.5	PASS
	MCH	VL	TN	3.46	0.001840	± 2.5	PASS
		VN	TN	1.69	0.000899	± 2.5	PASS
		VH	TN	1.17	0.000622	± 2.5	PASS
	HCH	VL	TN	2.38	0.001253	± 2.5	PASS
		VN	TN	-0.35	-0.000184	± 2.5	PASS
		VH	TN	4.69	0.002468	± 2.5	PASS
16QAM	LCH	VL	TN	2.2	0.001183	± 2.5	PASS
		VN	TN	0.94	0.000505	± 2.5	PASS
		VH	TN	2.4	0.001290	± 2.5	PASS
	MCH	VL	TN	1.59	0.000846	± 2.5	PASS
		VN	TN	2.39	0.001271	± 2.5	PASS
		VH	TN	4.99	0.002654	± 2.5	PASS
	HCH	VL	TN	-1.12	-0.000589	± 2.5	PASS
		VN	TN	-0.88	-0.000463	± 2.5	PASS
		VH	TN	-1.77	-0.000932	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.9	0.001022	± 2.5	PASS
		VN	-20	4.91	0.002640	± 2.5	PASS
		VN	-10	0.84	0.000452	± 2.5	PASS
		VN	0	-0.56	-0.000301	± 2.5	PASS
		VN	10	-0.47	-0.000253	± 2.5	PASS
		VN	20	2.08	0.001118	± 2.5	PASS
		VN	30	1.18	0.000634	± 2.5	PASS
		VN	40	0.52	0.000280	± 2.5	PASS
		VN	50	0.59	0.000317	± 2.5	PASS
	MCH	VN	-30	3.59	0.001910	± 2.5	PASS
		VN	-20	3.21	0.001707	± 2.5	PASS
		VN	-10	2.36	0.001255	± 2.5	PASS
		VN	0	1.07	0.000569	± 2.5	PASS

		VN	10	-1.29	-0.000686	± 2.5	PASS
		VN	20	0.72	0.000383	± 2.5	PASS
		VN	30	4.34	0.002309	± 2.5	PASS
		VN	40	3.1	0.001649	± 2.5	PASS
		VN	50	4.29	0.002282	± 2.5	PASS
	HCH	VN	-30	-1.79	-0.000942	± 2.5	PASS
		VN	-20	-0.64	-0.000337	± 2.5	PASS
		VN	-10	-0.39	-0.000205	± 2.5	PASS
		VN	0	-0.58	-0.000305	± 2.5	PASS
		VN	10	2.58	0.001358	± 2.5	PASS
		VN	20	1.14	0.000600	± 2.5	PASS
		VN	30	3.8	0.002000	± 2.5	PASS
		VN	40	-1.14	-0.000600	± 2.5	PASS
		VN	50	-1.82	-0.000958	± 2.5	PASS
		16QAM	LCH	VN	-30	-1.14	-0.000613
VN	-20			1.27	0.000683	± 2.5	PASS
VN	-10			1.32	0.000710	± 2.5	PASS
VN	0			3.16	0.001699	± 2.5	PASS
VN	10			4.77	0.002565	± 2.5	PASS
VN	20			-1.51	-0.000812	± 2.5	PASS
VN	30			4.52	0.002430	± 2.5	PASS
VN	40			4.27	0.002296	± 2.5	PASS
VN	50			4.93	0.002651	± 2.5	PASS
MCH	VN		-30	2.1	0.001117	± 2.5	PASS
	VN		-20	1.47	0.000782	± 2.5	PASS
	VN		-10	3.41	0.001814	± 2.5	PASS
	VN		0	-0.65	-0.000346	± 2.5	PASS
	VN		10	0.27	0.000144	± 2.5	PASS
	VN		20	-1.4	-0.000745	± 2.5	PASS
	VN		30	0.56	0.000298	± 2.5	PASS
	VN		40	4.27	0.002271	± 2.5	PASS
	VN		50	2.9	0.001543	± 2.5	PASS
HCH	VN		-30	4.79	0.002521	± 2.5	PASS
	VN		-20	3.55	0.001868	± 2.5	PASS
	VN		-10	3	0.001579	± 2.5	PASS
	VN		0	-0.37	-0.000195	± 2.5	PASS
	VN		10	-1.06	-0.000558	± 2.5	PASS
	VN		20	4.21	0.002216	± 2.5	PASS
	VN		30	4.49	0.002363	± 2.5	PASS
	VN		40	2.03	0.001068	± 2.5	PASS
	VN		50	-1.36	-0.000716	± 2.5	PASS

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	4.97	0.002672	± 2.5	PASS
		VN	TN	1.83	0.000984	± 2.5	PASS
		VH	TN	1.77	0.000952	± 2.5	PASS
	MCH	VL	TN	0.89	0.000473	± 2.5	PASS
		VN	TN	2.35	0.001250	± 2.5	PASS
		VH	TN	3.31	0.001761	± 2.5	PASS
	HCH	VL	TN	-0.46	-0.000242	± 2.5	PASS
		VN	TN	2.7	0.001421	± 2.5	PASS
		VH	TN	3.99	0.002100	± 2.5	PASS
16QAM	LCH	VL	TN	2.77	0.001489	± 2.5	PASS
		VN	TN	3.17	0.001704	± 2.5	PASS
		VH	TN	2.76	0.001484	± 2.5	PASS
	MCH	VL	TN	0.53	0.000282	± 2.5	PASS
		VN	TN	4.83	0.002569	± 2.5	PASS
		VH	TN	3.42	0.001819	± 2.5	PASS
	HCH	VL	TN	0.94	0.000495	± 2.5	PASS
		VN	TN	3.53	0.001858	± 2.5	PASS
		VH	TN	4.08	0.002147	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.04	-0.000559	± 2.5	PASS
		VN	-20	1.26	0.000677	± 2.5	PASS
		VN	-10	2.32	0.001247	± 2.5	PASS
		VN	0	3.73	0.002005	± 2.5	PASS
		VN	10	1.07	0.000575	± 2.5	PASS
		VN	20	-1.17	-0.000629	± 2.5	PASS
		VN	30	-0.88	-0.000473	± 2.5	PASS
		VN	40	2.05	0.001102	± 2.5	PASS
		VN	50	0.53	0.000285	± 2.5	PASS
	MCH	VN	-30	-1.28	-0.000681	± 2.5	PASS
		VN	-20	-0.6	-0.000319	± 2.5	PASS
		VN	-10	-0.52	-0.000277	± 2.5	PASS
		VN	0	2.34	0.001245	± 2.5	PASS
		VN	10	3.75	0.001995	± 2.5	PASS
		VN	20	1.1	0.000585	± 2.5	PASS

		VN	30	2	0.001064	± 2.5	PASS
		VN	40	-1.12	-0.000596	± 2.5	PASS
		VN	50	-1.43	-0.000761	± 2.5	PASS
	HCH	VN	-30	1.07	0.000563	± 2.5	PASS
		VN	-20	0.22	0.000116	± 2.5	PASS
		VN	-10	3.25	0.001711	± 2.5	PASS
		VN	0	0.54	0.000284	± 2.5	PASS
		VN	10	3.66	0.001926	± 2.5	PASS
		VN	20	4.75	0.002500	± 2.5	PASS
		VN	30	-0.81	-0.000426	± 2.5	PASS
		VN	40	3.68	0.001937	± 2.5	PASS
		VN	50	0.19	0.000100	± 2.5	PASS
16QAM	LCH	VN	-30	-1.7	-0.000914	± 2.5	PASS
		VN	-20	1.6	0.000860	± 2.5	PASS
		VN	-10	-0.7	-0.000376	± 2.5	PASS
		VN	0	0.39	0.000210	± 2.5	PASS
		VN	10	1.66	0.000892	± 2.5	PASS
		VN	20	4.4	0.002366	± 2.5	PASS
		VN	30	0.25	0.000134	± 2.5	PASS
		VN	40	0.94	0.000505	± 2.5	PASS
		VN	50	1.39	0.000747	± 2.5	PASS
	MCH	VN	-30	0.73	0.000388	± 2.5	PASS
		VN	-20	4.36	0.002319	± 2.5	PASS
		VN	-10	-0.51	-0.000271	± 2.5	PASS
		VN	0	1.6	0.000851	± 2.5	PASS
		VN	10	1.81	0.000963	± 2.5	PASS
		VN	20	0.29	0.000154	± 2.5	PASS
		VN	30	4.55	0.002420	± 2.5	PASS
		VN	40	-1.27	-0.000676	± 2.5	PASS
		VN	50	-0.78	-0.000415	± 2.5	PASS
	HCH	VN	-30	-1.84	-0.000968	± 2.5	PASS
		VN	-20	-1.62	-0.000853	± 2.5	PASS
		VN	-10	1.16	0.000611	± 2.5	PASS
		VN	0	2.8	0.001474	± 2.5	PASS
		VN	10	-0.98	-0.000516	± 2.5	PASS
		VN	20	3.26	0.001716	± 2.5	PASS
		VN	30	-0.14	-0.000074	± 2.5	PASS
		VN	40	-1.88	-0.000989	± 2.5	PASS
		VN	50	1.42	0.000747	± 2.5	PASS

Channel Bandwidth: 20 MHz

Channel Bandwidth: 20 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	4.68	0.002516	± 2.5	PASS
		VN	TN	-1.98	-0.001065	± 2.5	PASS
		VH	TN	-1.35	-0.000726	± 2.5	PASS
	MCH	VL	TN	1.05	0.000559	± 2.5	PASS
		VN	TN	2.55	0.001356	± 2.5	PASS
		VH	TN	3.6	0.001915	± 2.5	PASS
	HCH	VL	TN	1.05	0.000553	± 2.5	PASS
		VN	TN	-1.91	-0.001005	± 2.5	PASS
		VH	TN	-0.91	-0.000479	± 2.5	PASS
16QAM	LCH	VL	TN	-0.83	-0.000446	± 2.5	PASS
		VN	TN	4.61	0.002478	± 2.5	PASS
		VH	TN	3.06	0.001645	± 2.5	PASS
	MCH	VL	TN	-1.29	-0.000686	± 2.5	PASS
		VN	TN	1.87	0.000995	± 2.5	PASS
		VH	TN	2.41	0.001282	± 2.5	PASS
	HCH	VL	TN	0.89	0.000468	± 2.5	PASS
		VN	TN	-1.1	-0.000579	± 2.5	PASS
		VH	TN	-1.45	-0.000763	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.25	0.002285	± 2.5	PASS
		VN	-20	1.04	0.000559	± 2.5	PASS
		VN	-10	2.09	0.001124	± 2.5	PASS
		VN	0	-1.85	-0.000995	± 2.5	PASS
		VN	10	4.83	0.002597	± 2.5	PASS
		VN	20	3.13	0.001683	± 2.5	PASS
		VN	30	-1.25	-0.000672	± 2.5	PASS
		VN	40	2.76	0.001484	± 2.5	PASS
		VN	50	0.87	0.000468	± 2.5	PASS
	MCH	VN	-30	4.6	0.002447	± 2.5	PASS
		VN	-20	-1.17	-0.000622	± 2.5	PASS
		VN	-10	3.29	0.001750	± 2.5	PASS
		VN	0	0.59	0.000314	± 2.5	PASS
		VN	10	2.85	0.001516	± 2.5	PASS
		VN	20	0.8	0.000426	± 2.5	PASS

		VN	30	1.54	0.000819	± 2.5	PASS
		VN	40	3.8	0.002021	± 2.5	PASS
		VN	50	1.88	0.001000	± 2.5	PASS
	HCH	VN	-30	0.02	0.000011	± 2.5	PASS
		VN	-20	1.72	0.000905	± 2.5	PASS
		VN	-10	2.3	0.001211	± 2.5	PASS
		VN	0	-0.78	-0.000411	± 2.5	PASS
		VN	10	-1.57	-0.000826	± 2.5	PASS
		VN	20	4.29	0.002258	± 2.5	PASS
		VN	30	4.67	0.002458	± 2.5	PASS
		VN	40	1.81	0.000953	± 2.5	PASS
		VN	50	-0.46	-0.000242	± 2.5	PASS
16QAM	LCH	VN	-30	1.2	0.000645	± 2.5	PASS
		VN	-20	0.38	0.000204	± 2.5	PASS
		VN	-10	4.88	0.002624	± 2.5	PASS
		VN	0	3.65	0.001962	± 2.5	PASS
		VN	10	0.32	0.000172	± 2.5	PASS
		VN	20	2.7	0.001452	± 2.5	PASS
		VN	30	0.35	0.000188	± 2.5	PASS
		VN	40	-0.72	-0.000387	± 2.5	PASS
		VN	50	4.28	0.002301	± 2.5	PASS
	MCH	VN	-30	1.96	0.001043	± 2.5	PASS
		VN	-20	3.83	0.002037	± 2.5	PASS
		VN	-10	1.78	0.000947	± 2.5	PASS
		VN	0	0.38	0.000202	± 2.5	PASS
		VN	10	2.88	0.001532	± 2.5	PASS
		VN	20	2.9	0.001543	± 2.5	PASS
		VN	30	2.71	0.001441	± 2.5	PASS
		VN	40	2.4	0.001277	± 2.5	PASS
		VN	50	1.29	0.000686	± 2.5	PASS
	HCH	VN	-30	-0.64	-0.000337	± 2.5	PASS
		VN	-20	-1.88	-0.000989	± 2.5	PASS
		VN	-10	1.47	0.000774	± 2.5	PASS
		VN	0	-1.02	-0.000537	± 2.5	PASS
		VN	10	1.98	0.001042	± 2.5	PASS
		VN	20	3.32	0.001747	± 2.5	PASS
		VN	30	0.39	0.000205	± 2.5	PASS
		VN	40	2.38	0.001253	± 2.5	PASS
		VN	50	-0.28	-0.000147	± 2.5	PASS