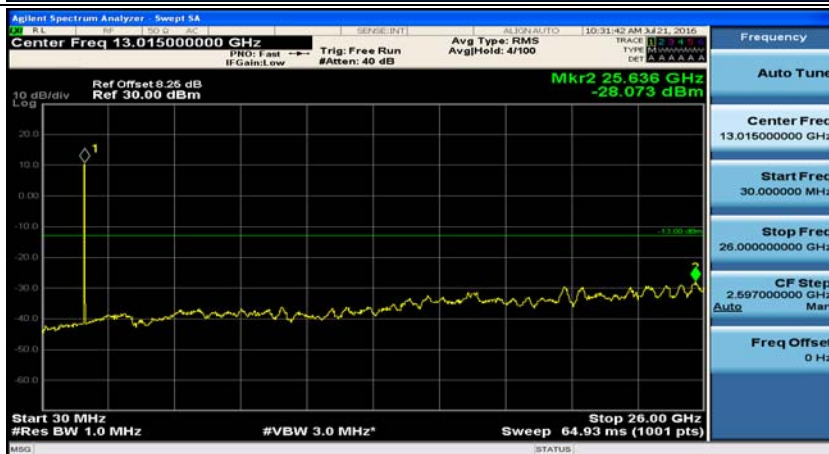
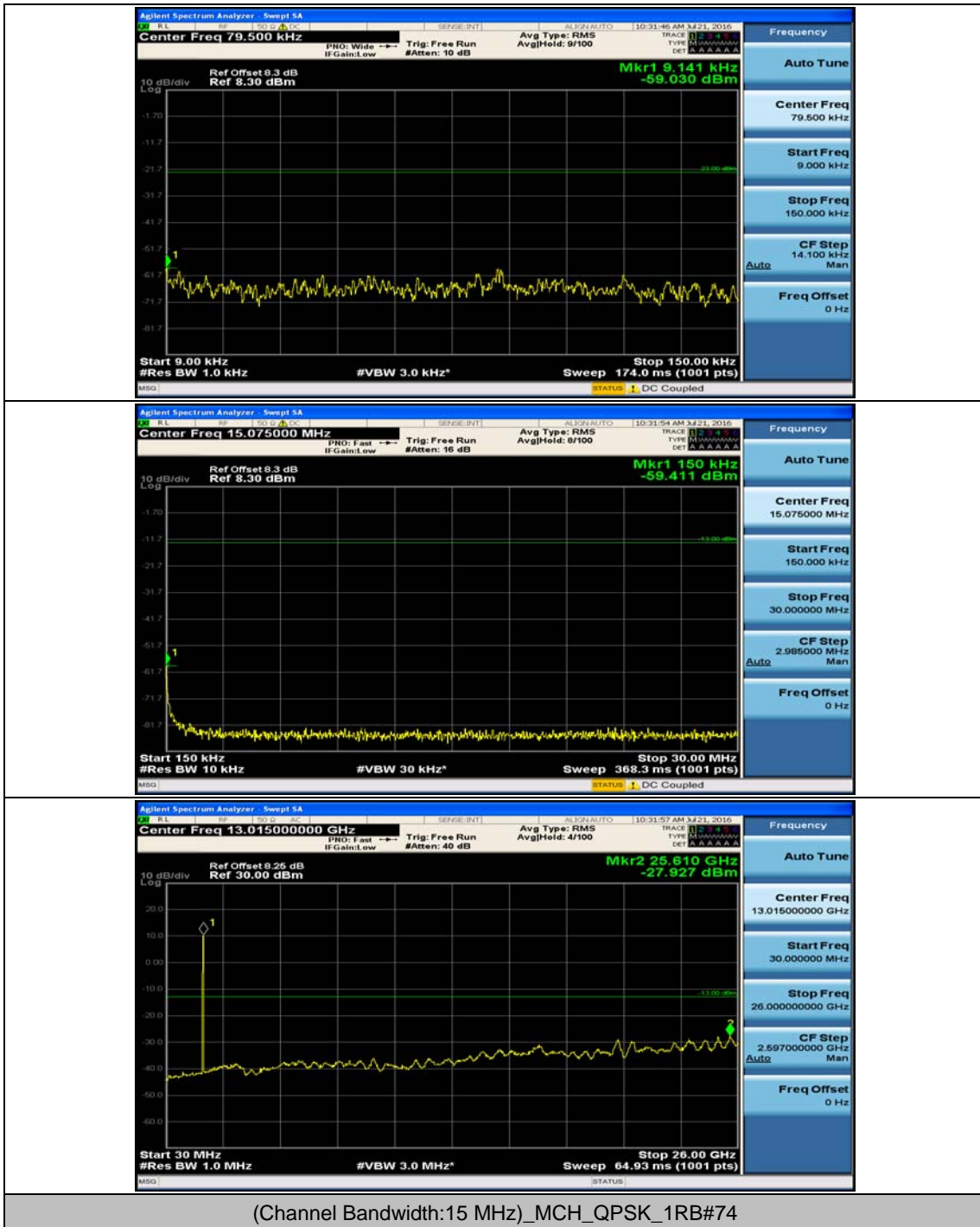
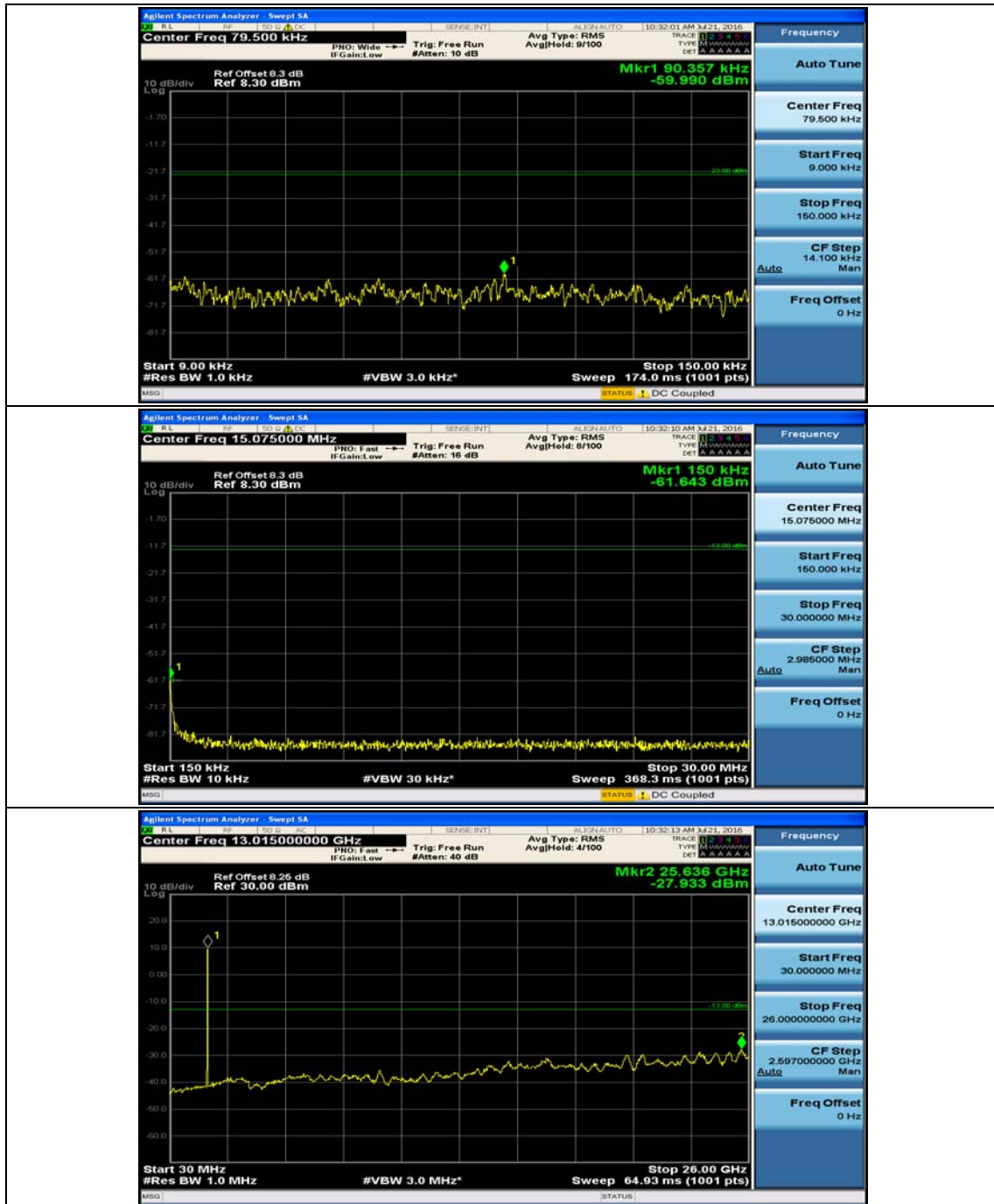


(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#0

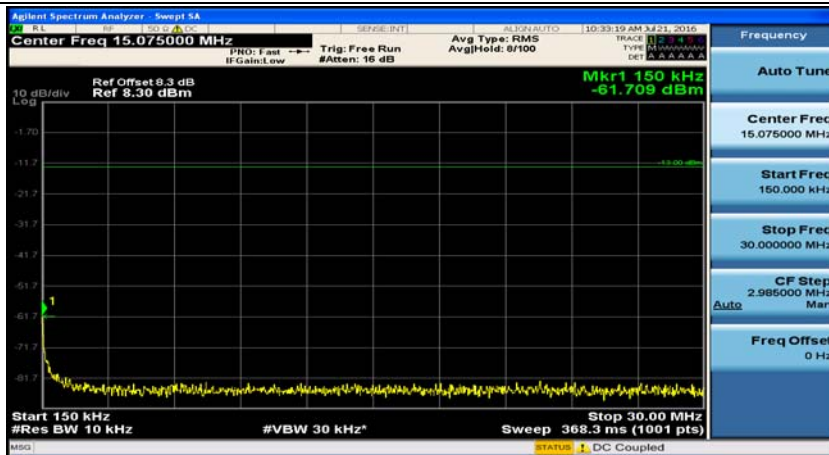
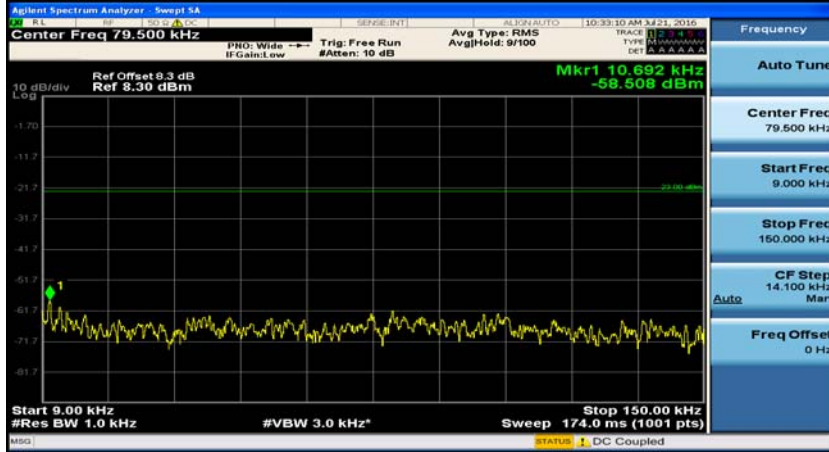


(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#37

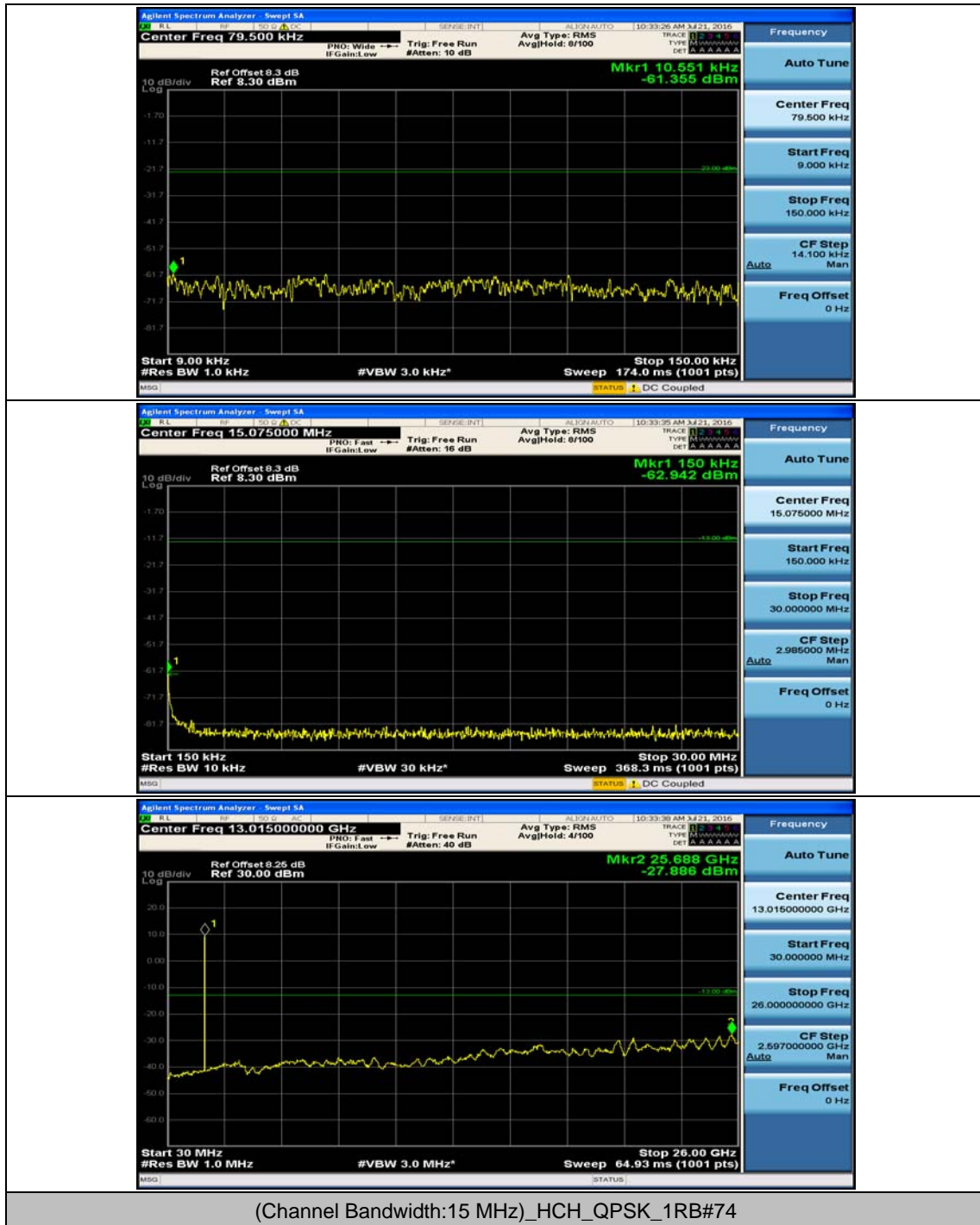


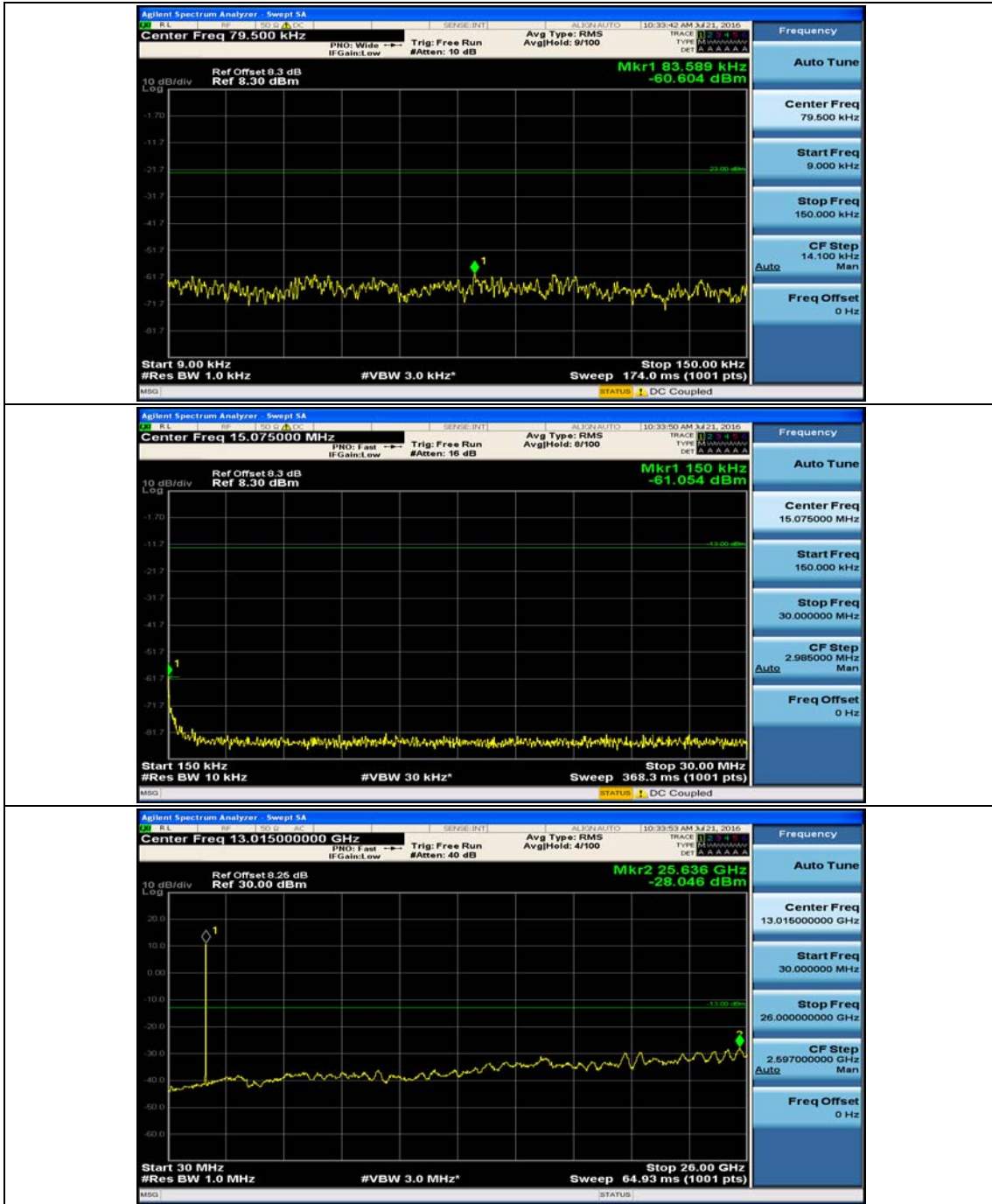


(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#0

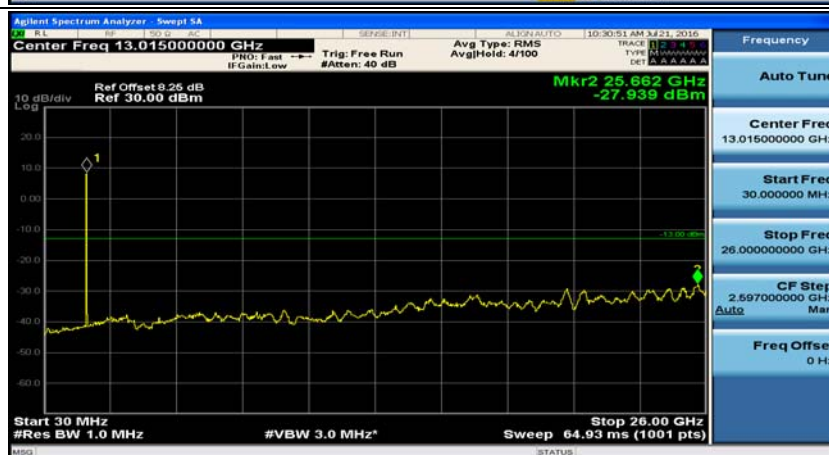
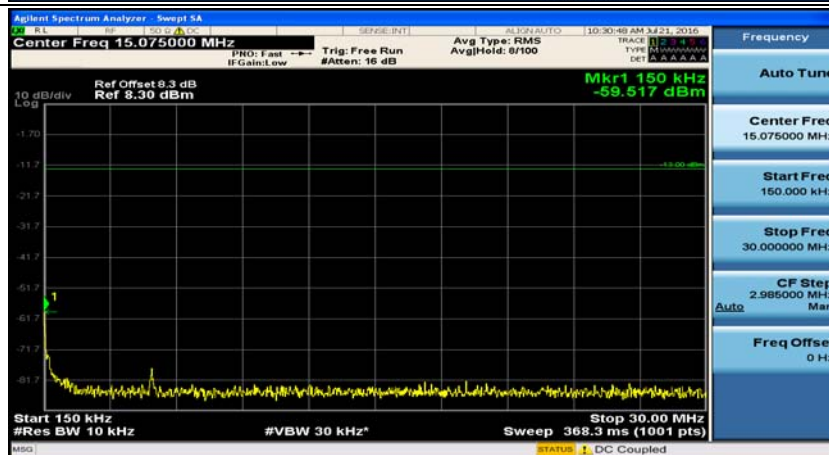
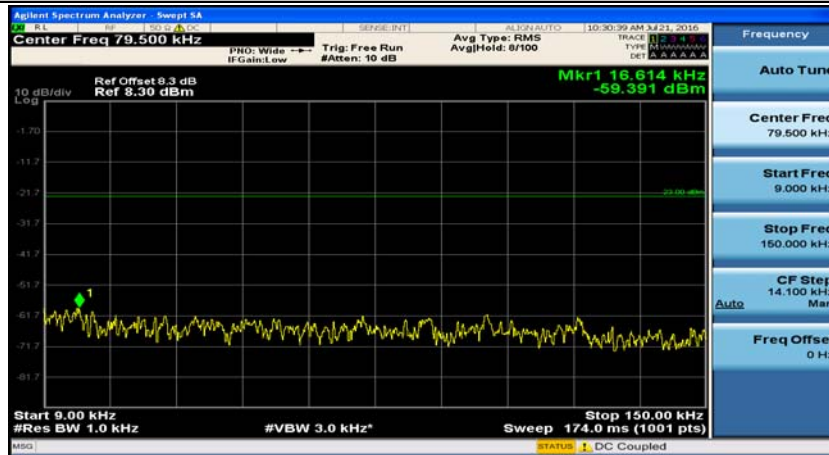


(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#37

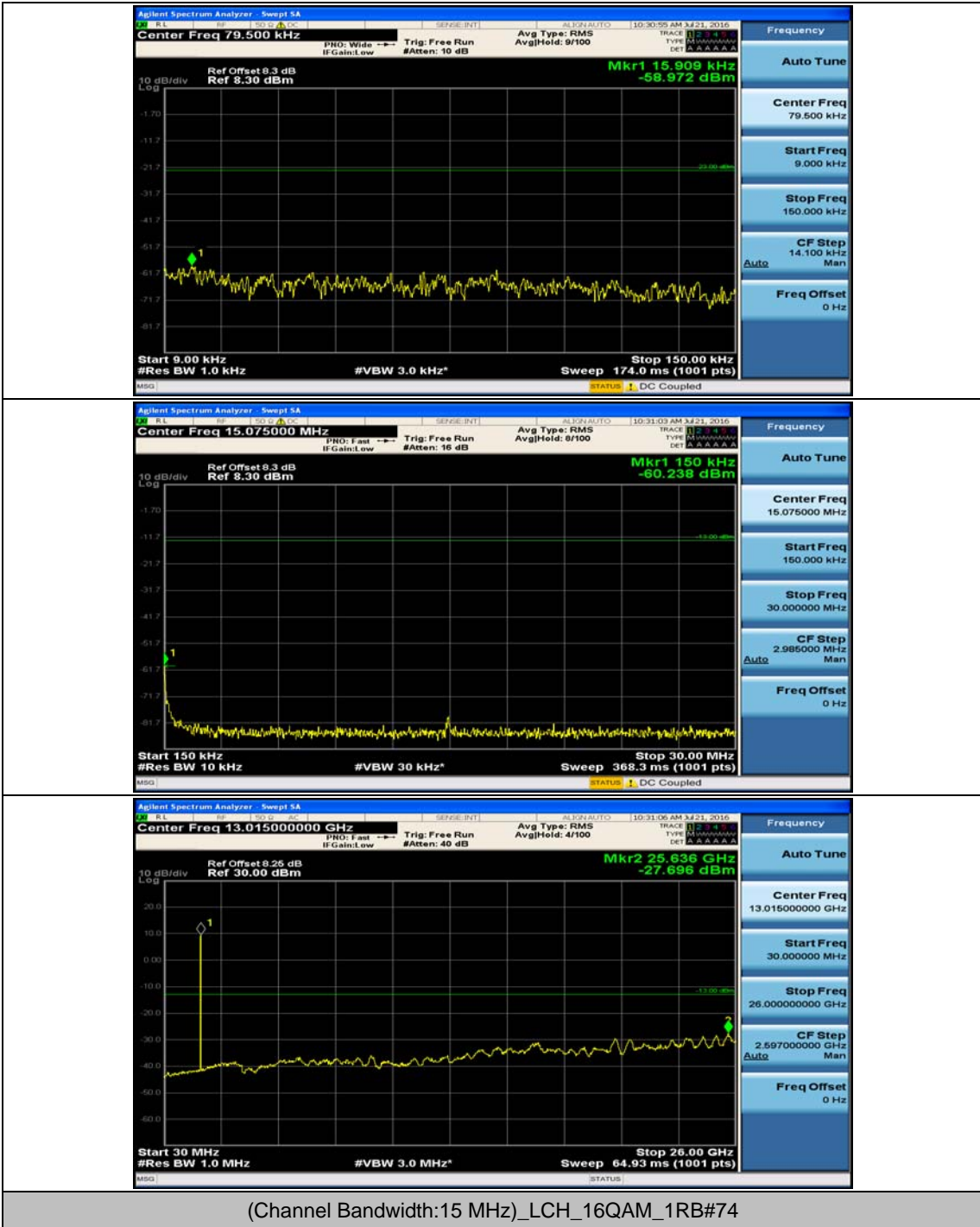


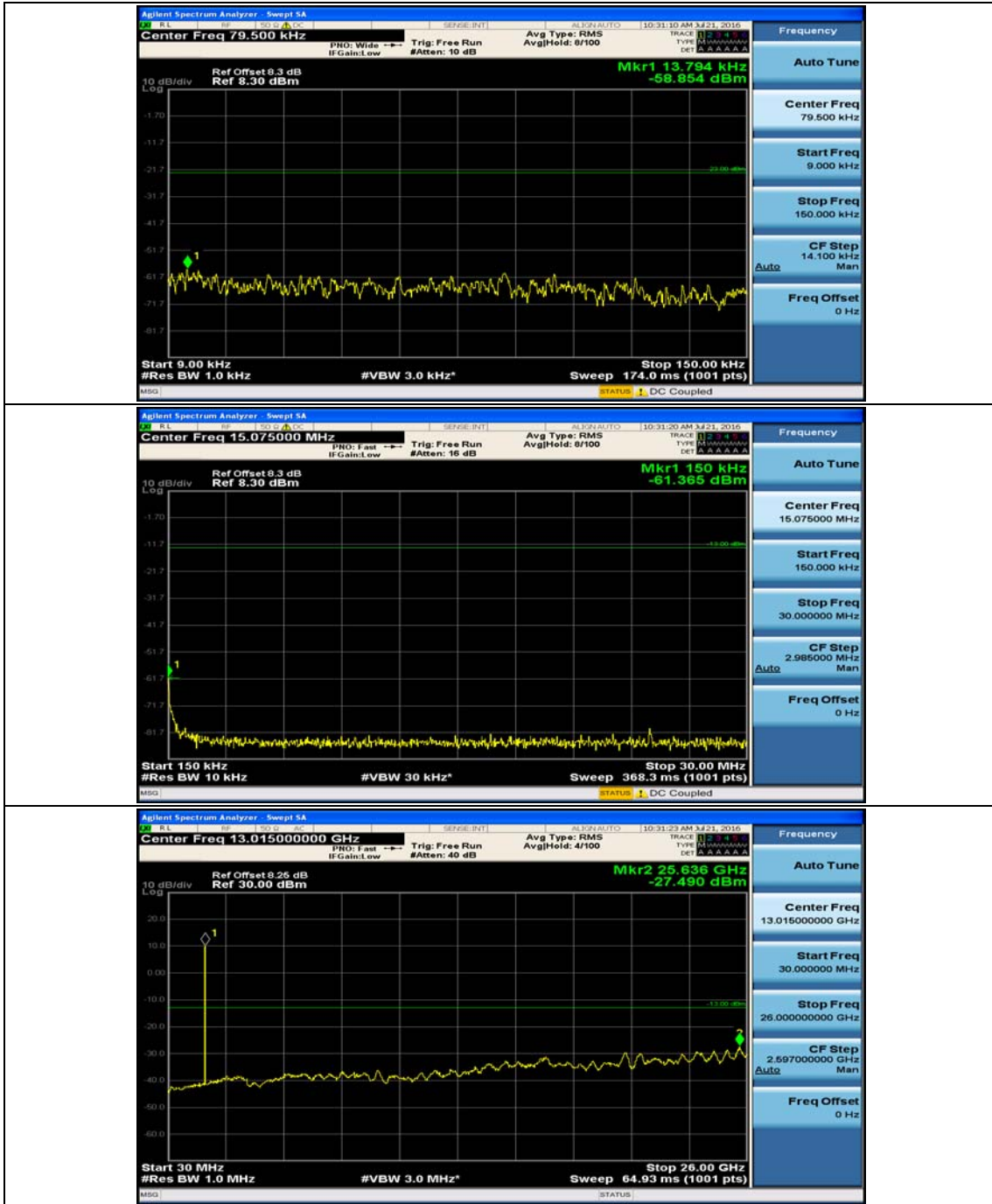


(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#0

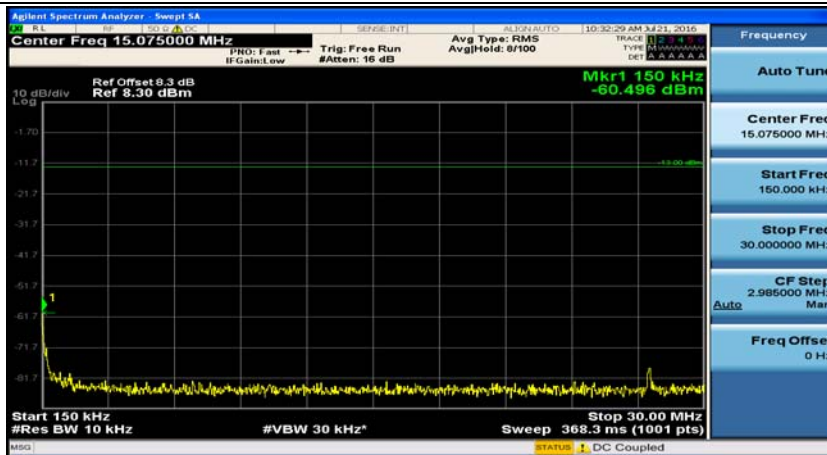
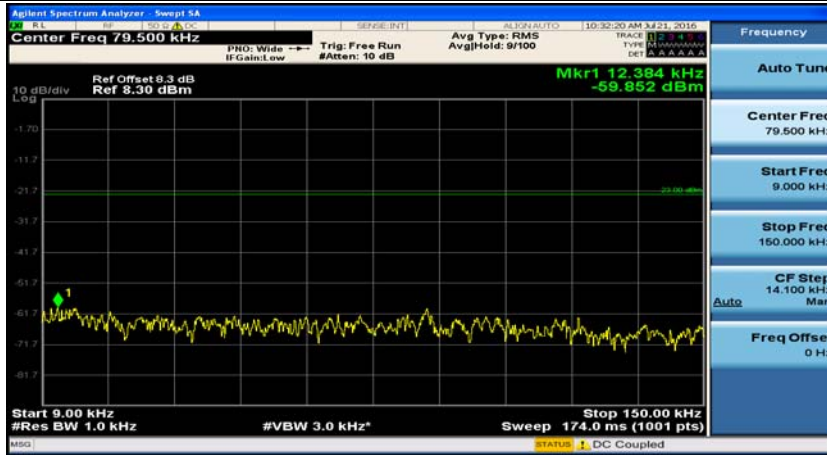


(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#37

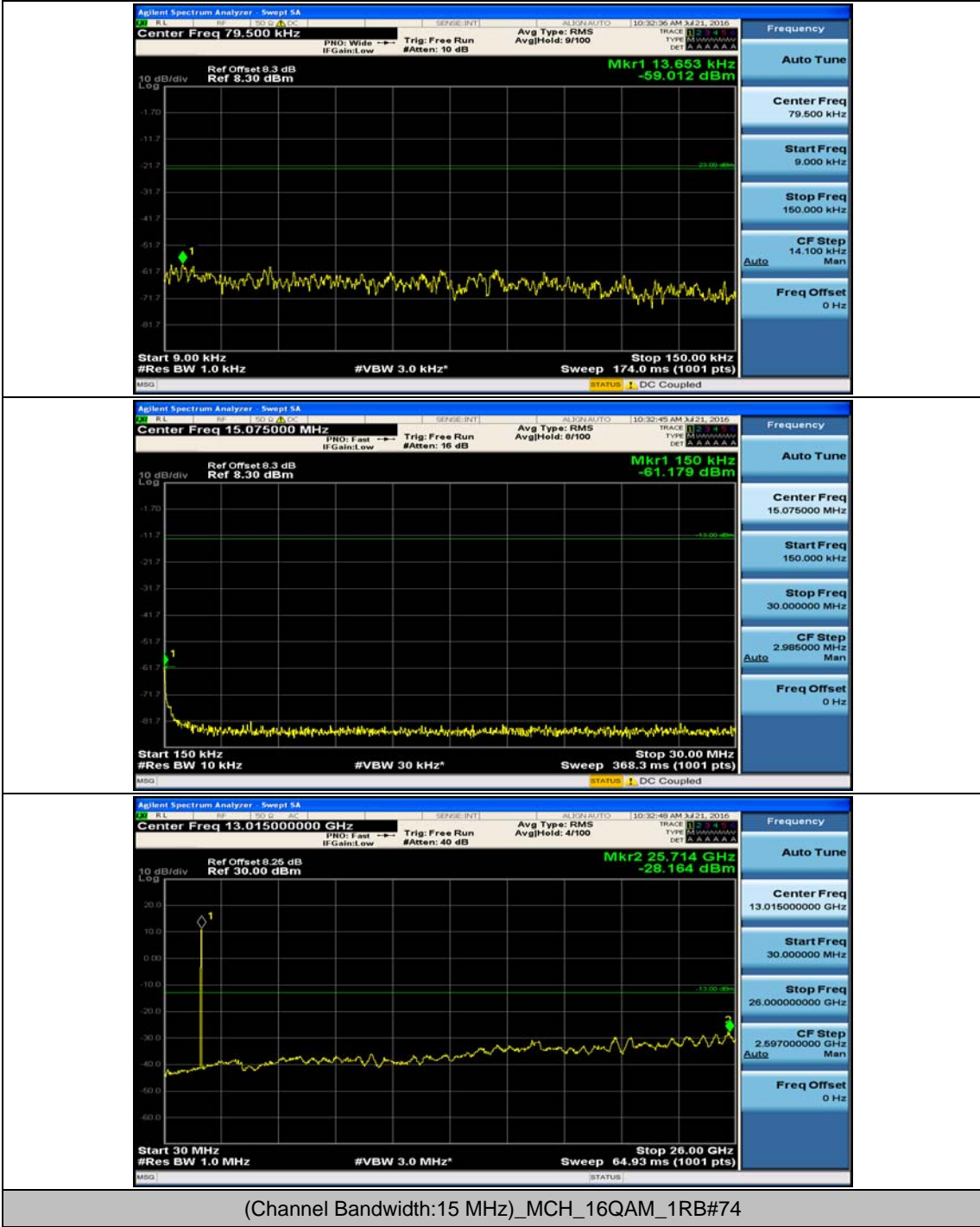


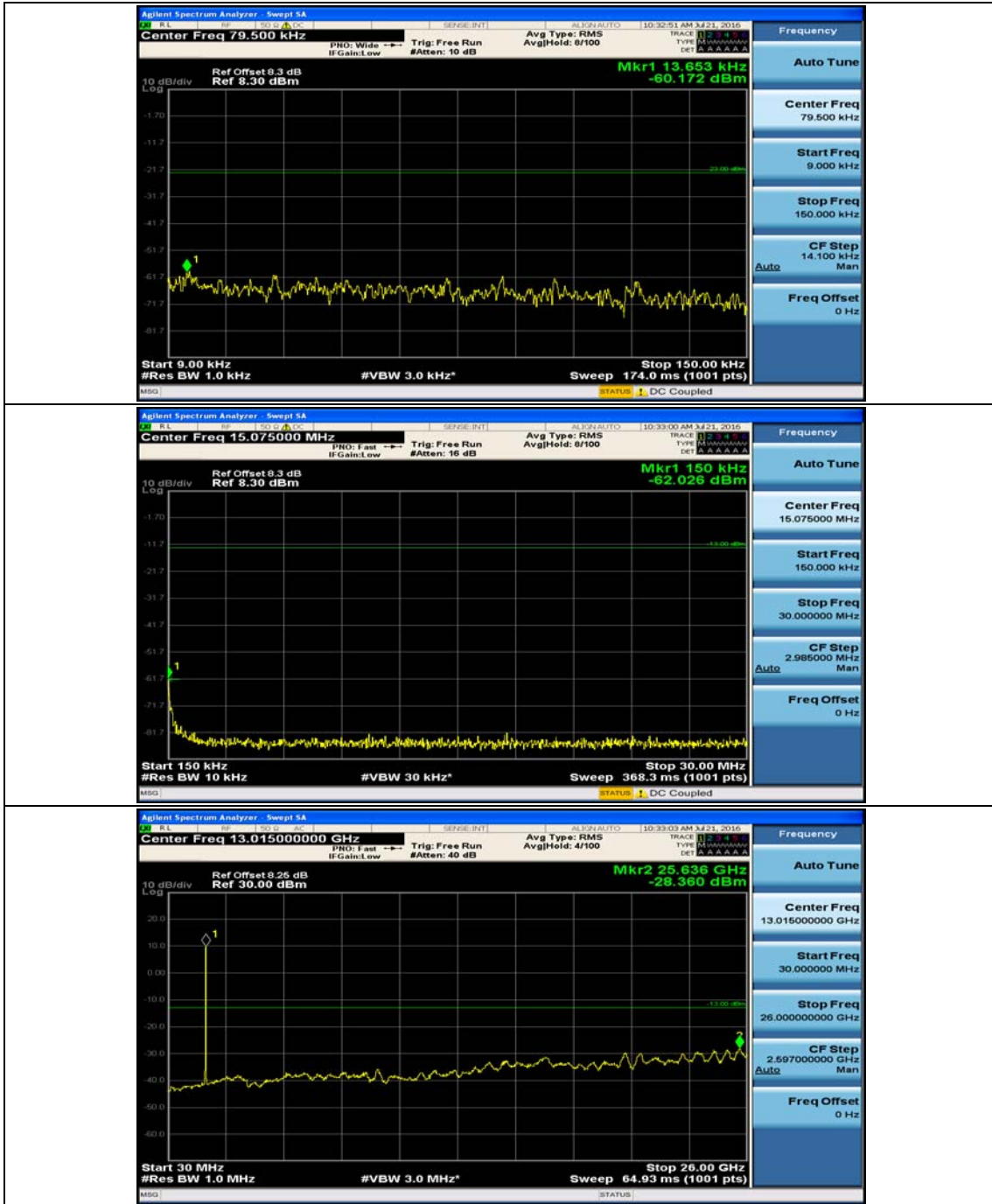


(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#0

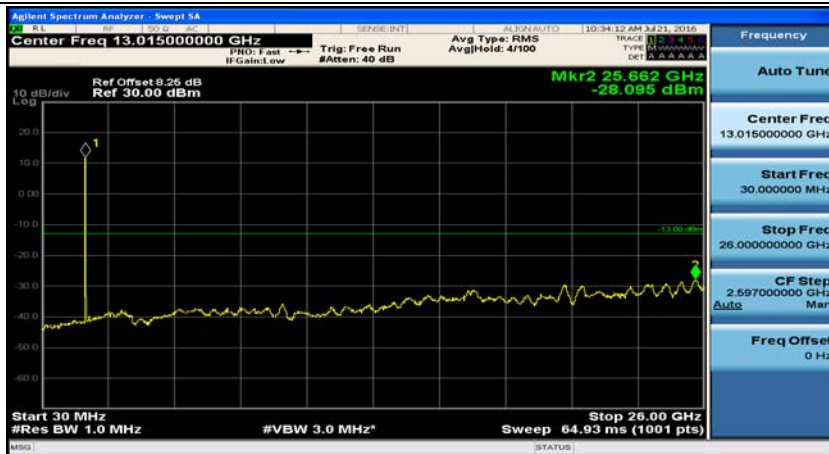
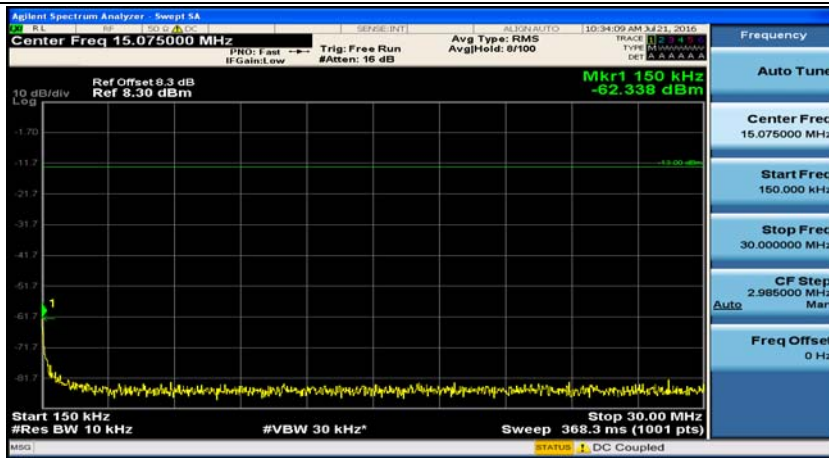
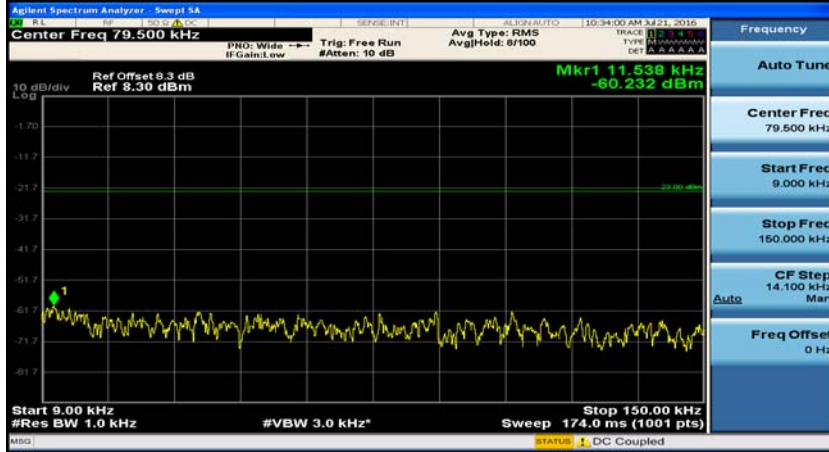


(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#37

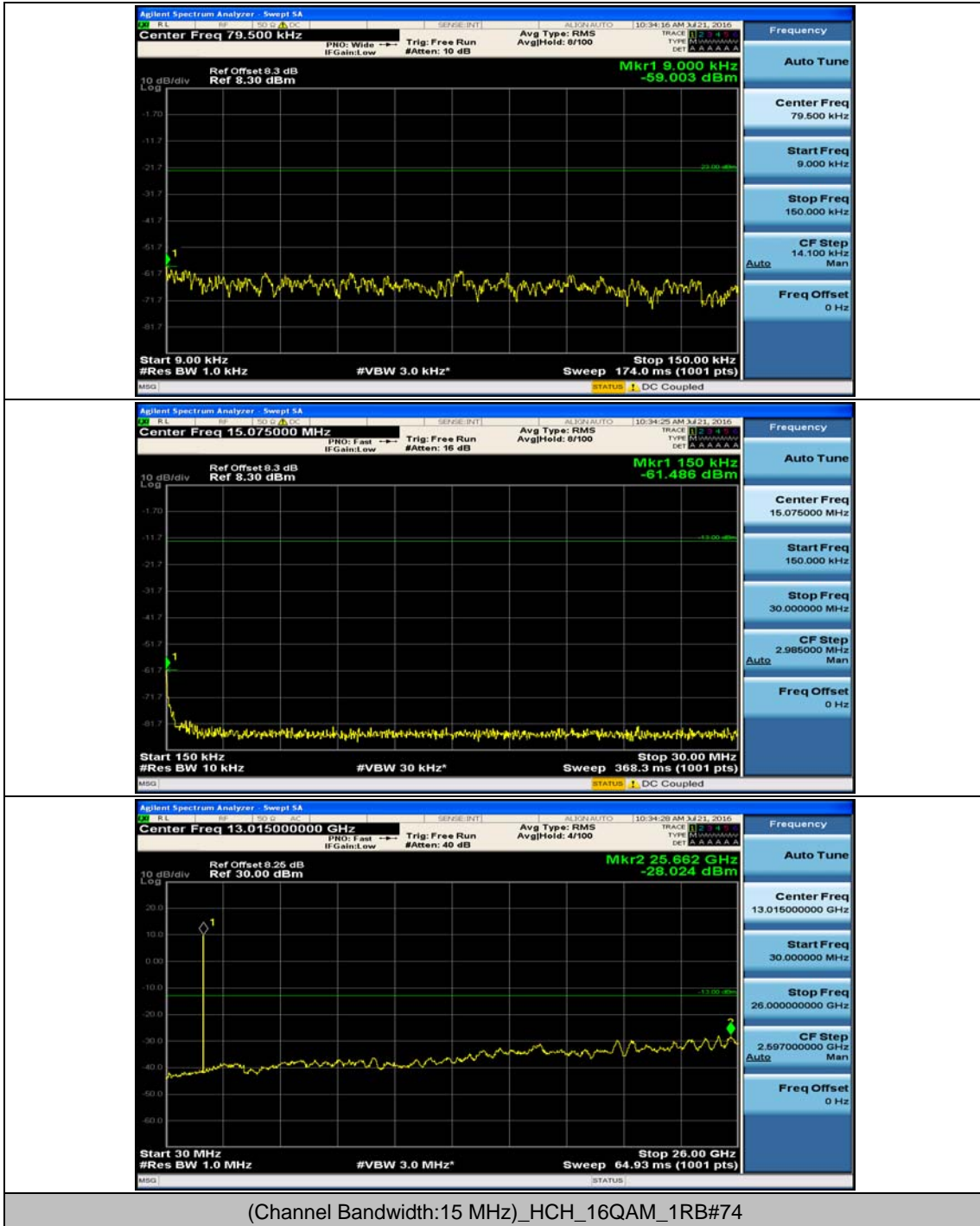


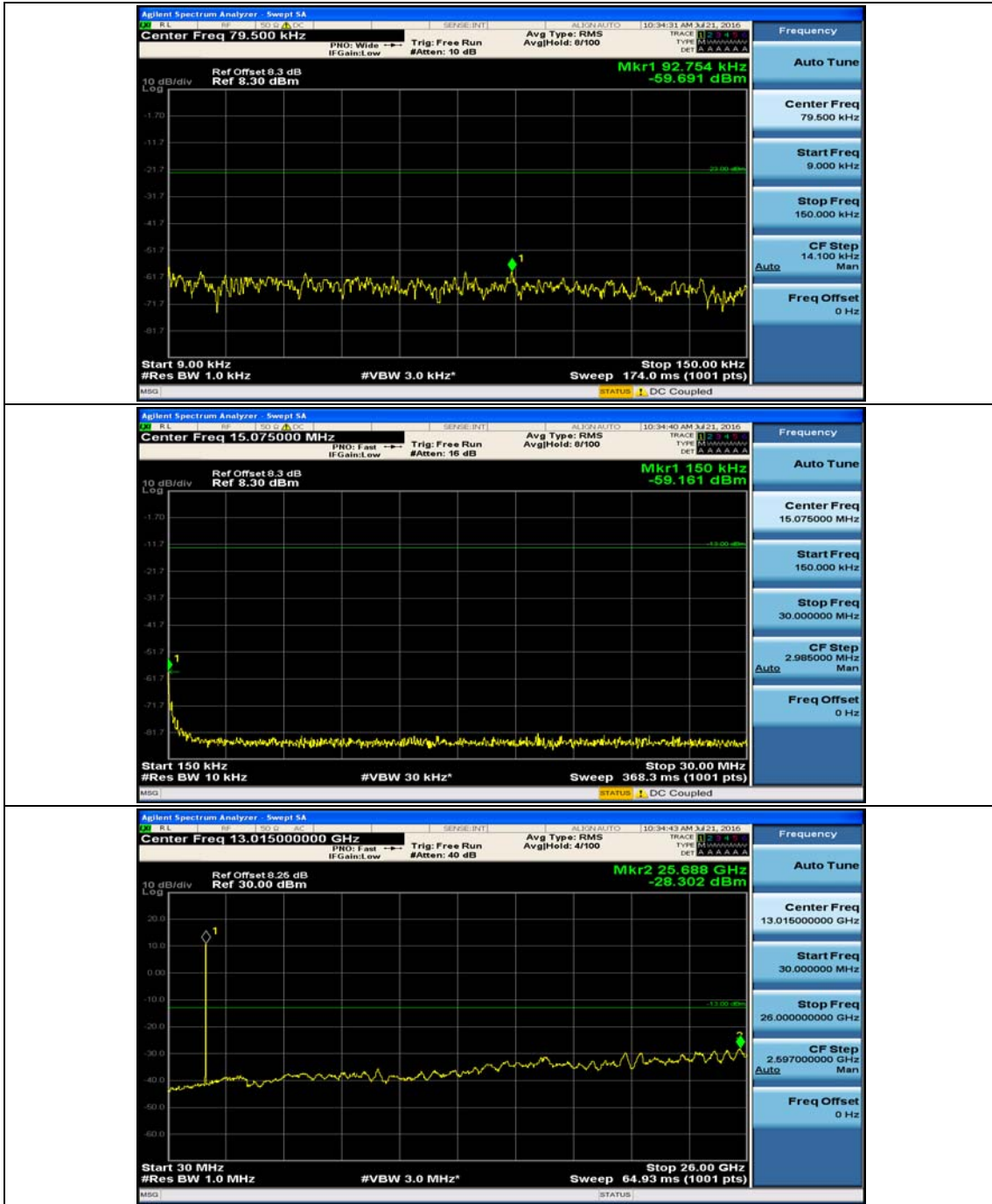


(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#0

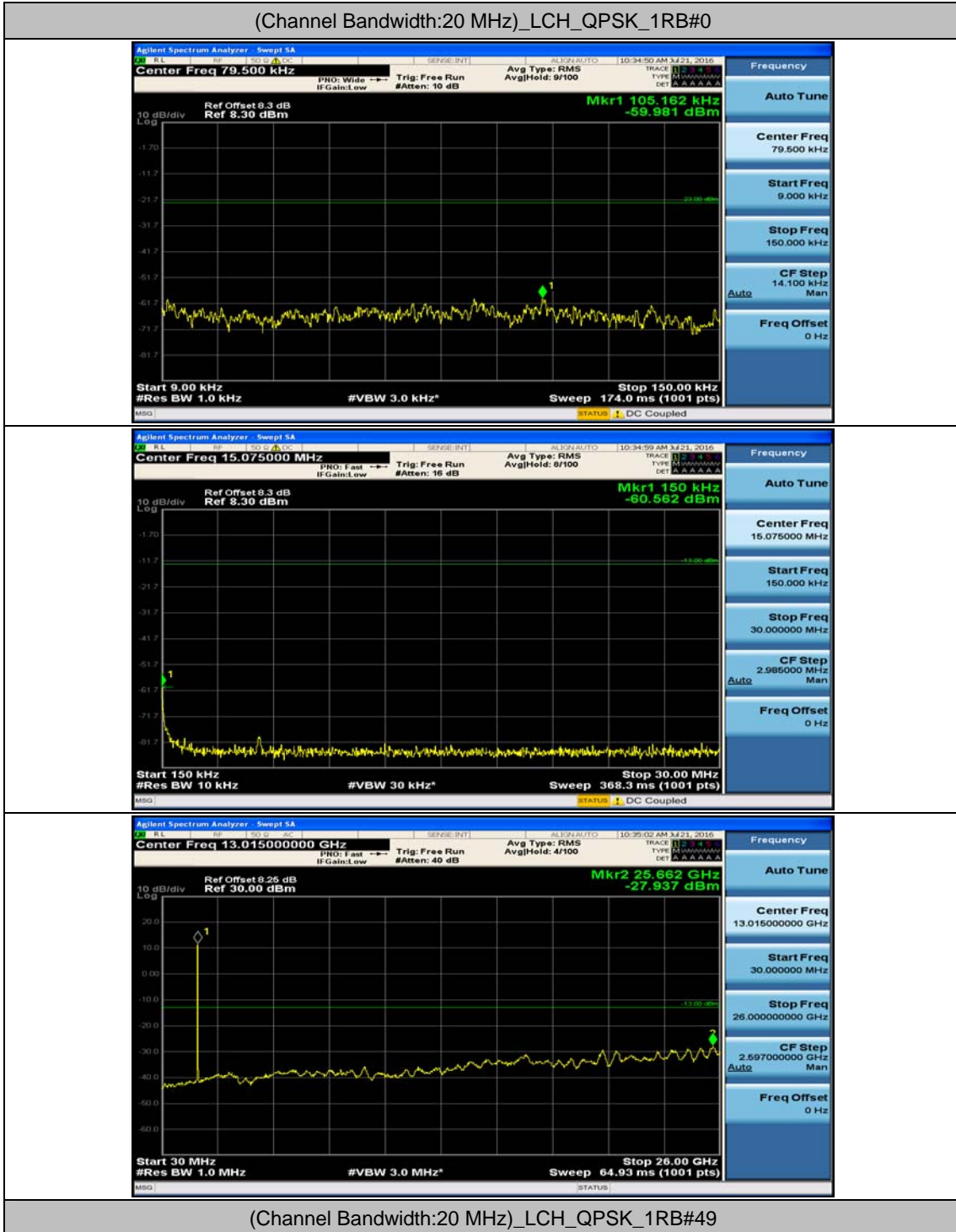


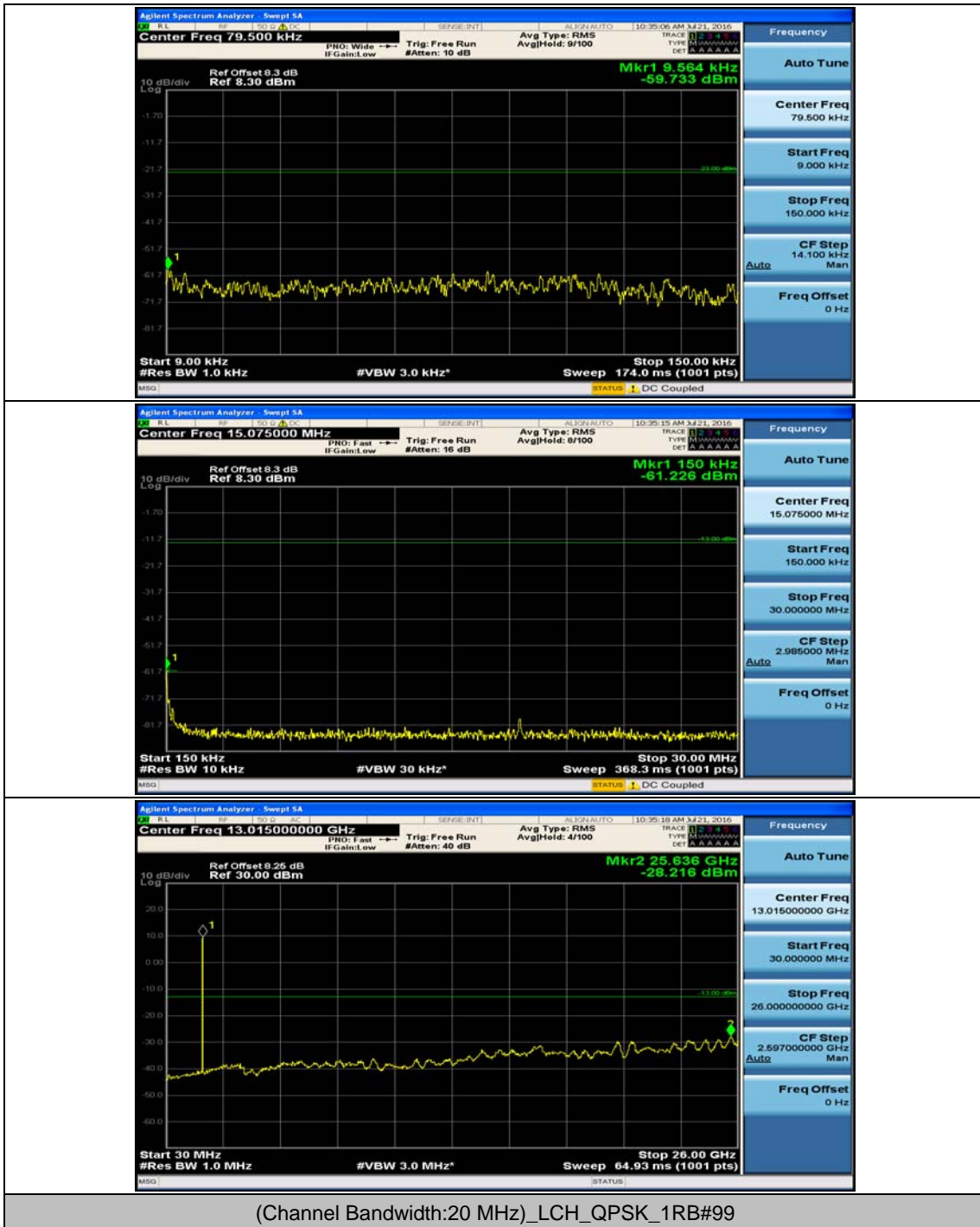
(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#37

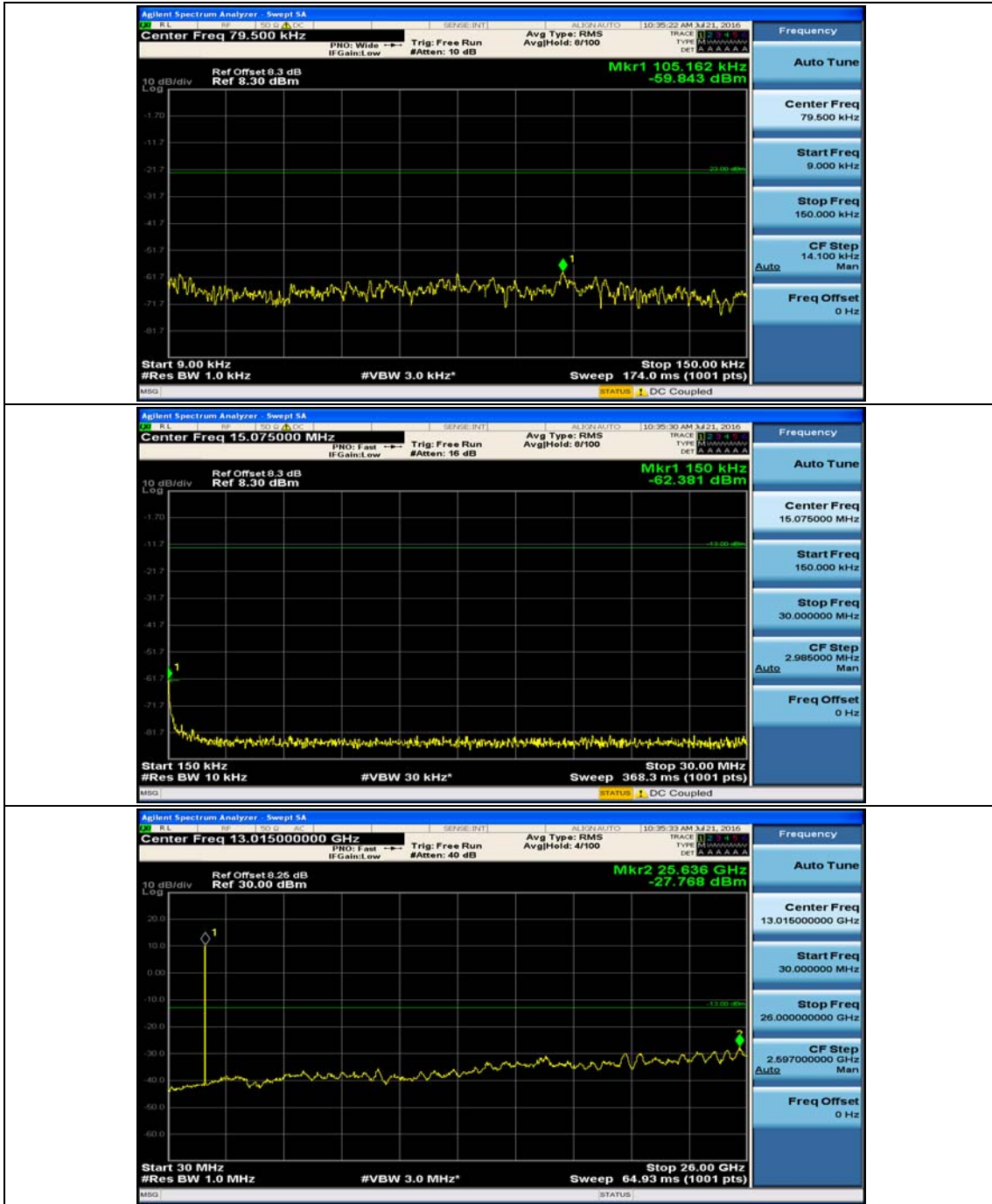




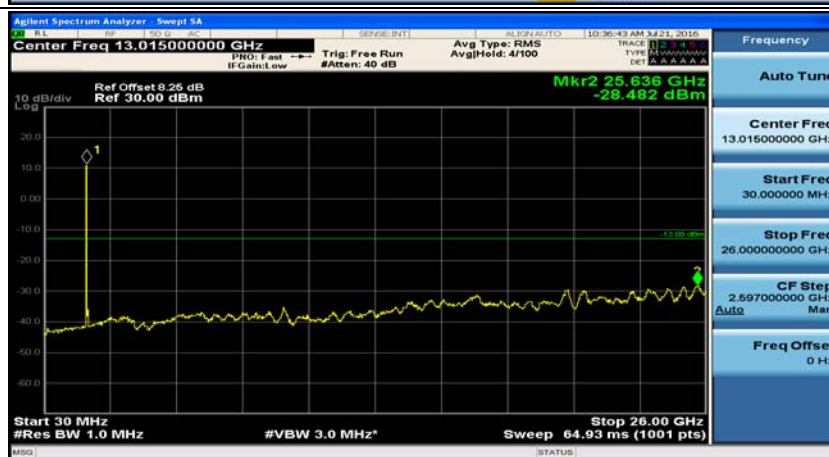
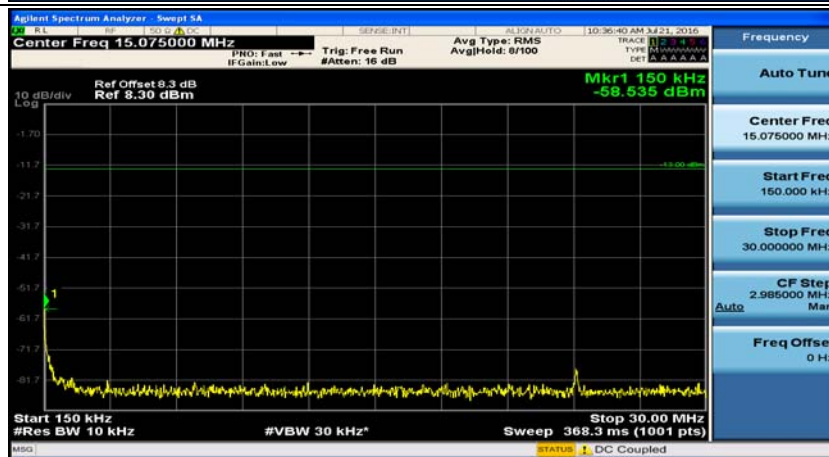
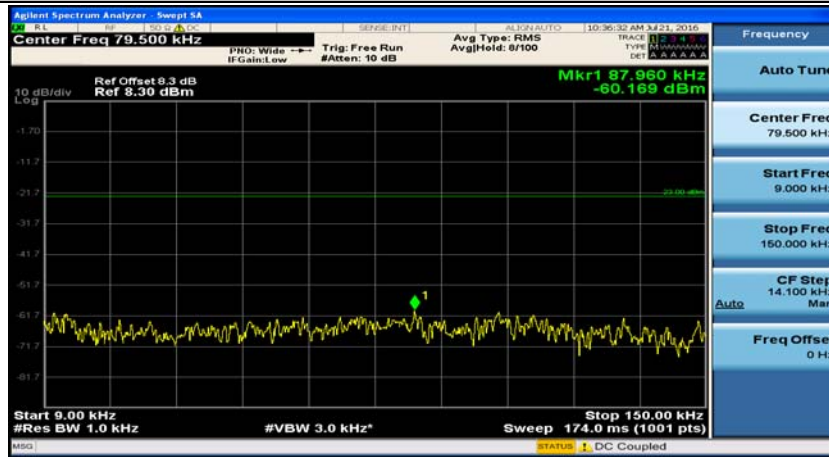
Channel Bandwidth: 20 MHz



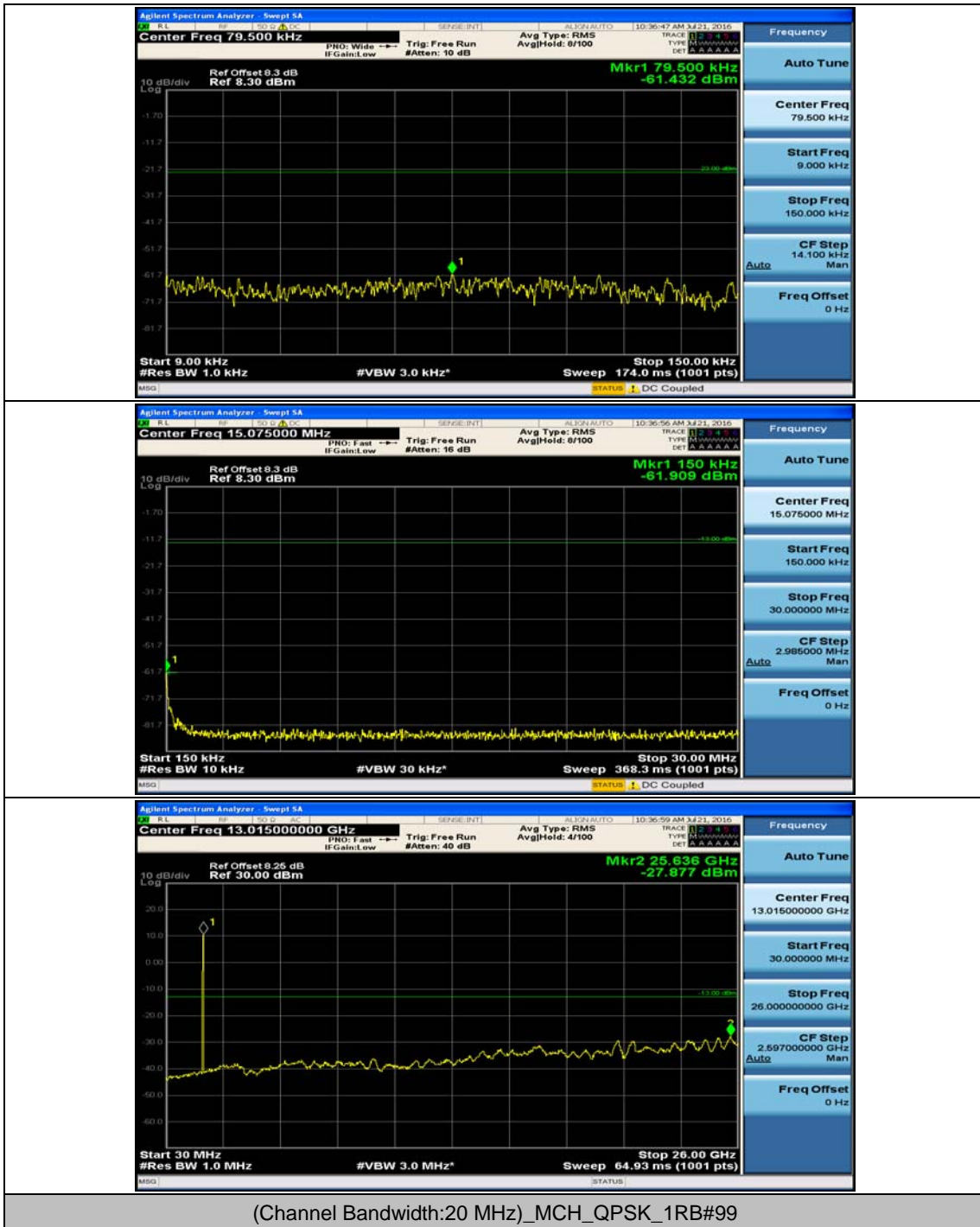


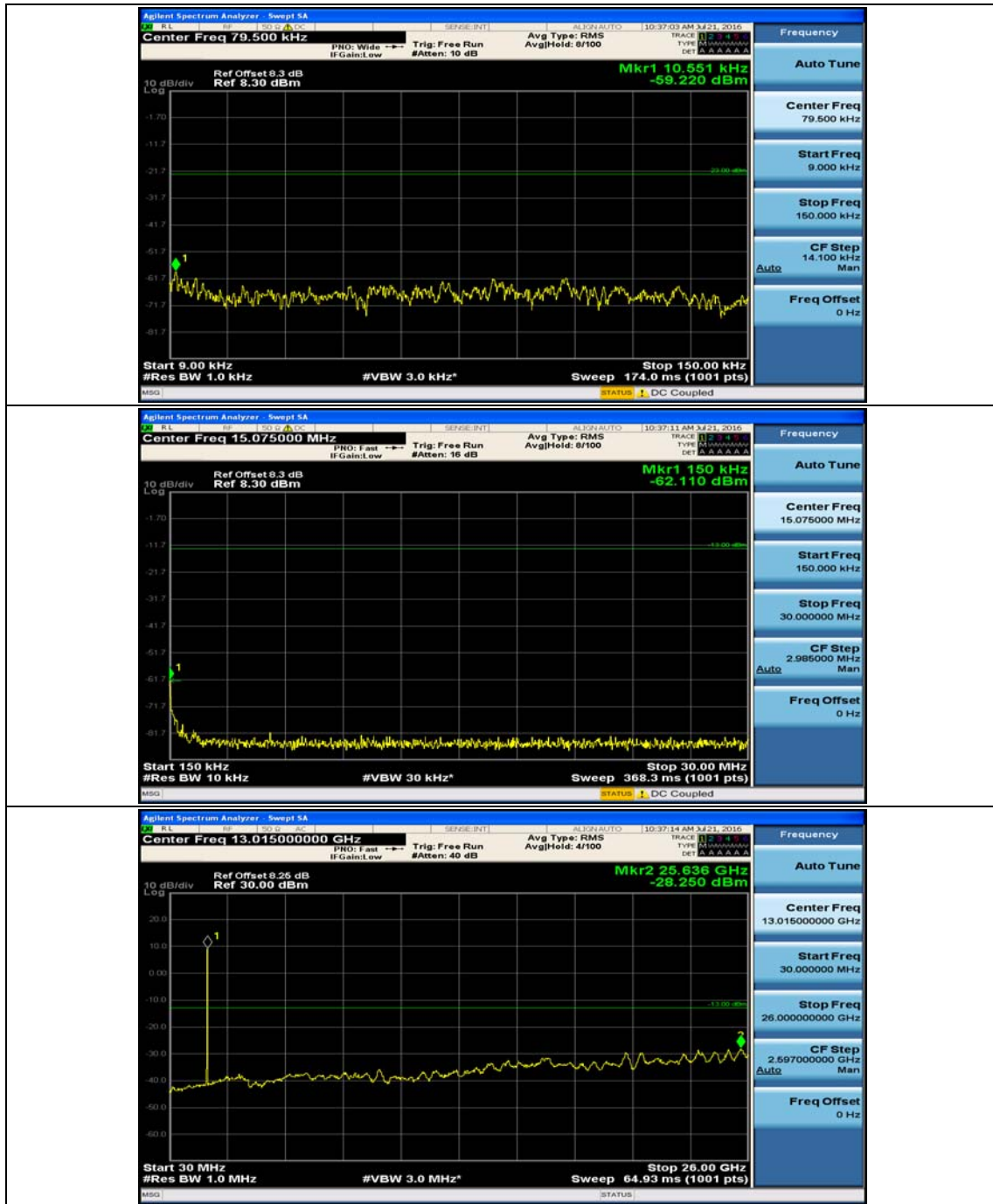


(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#0

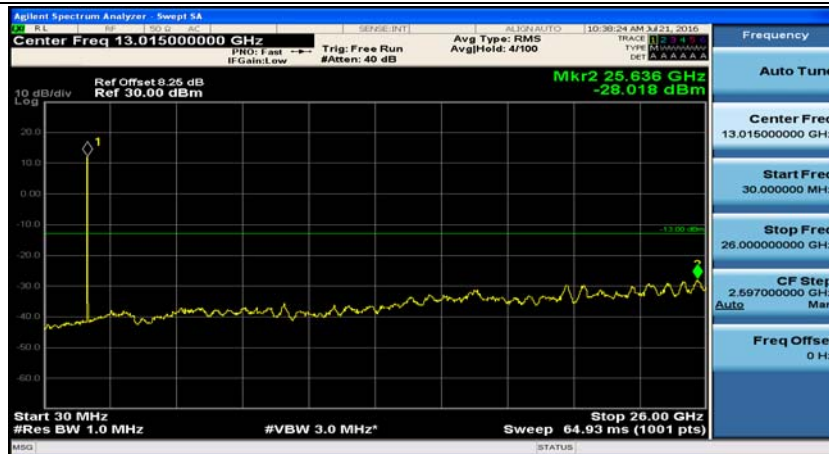
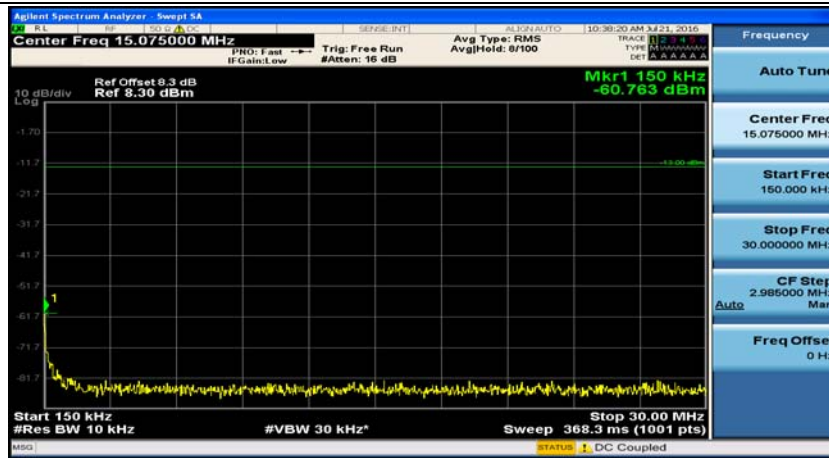
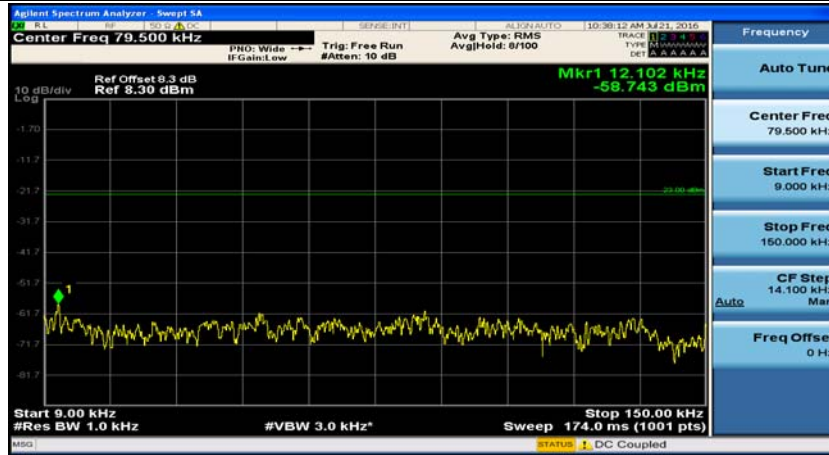


(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#49

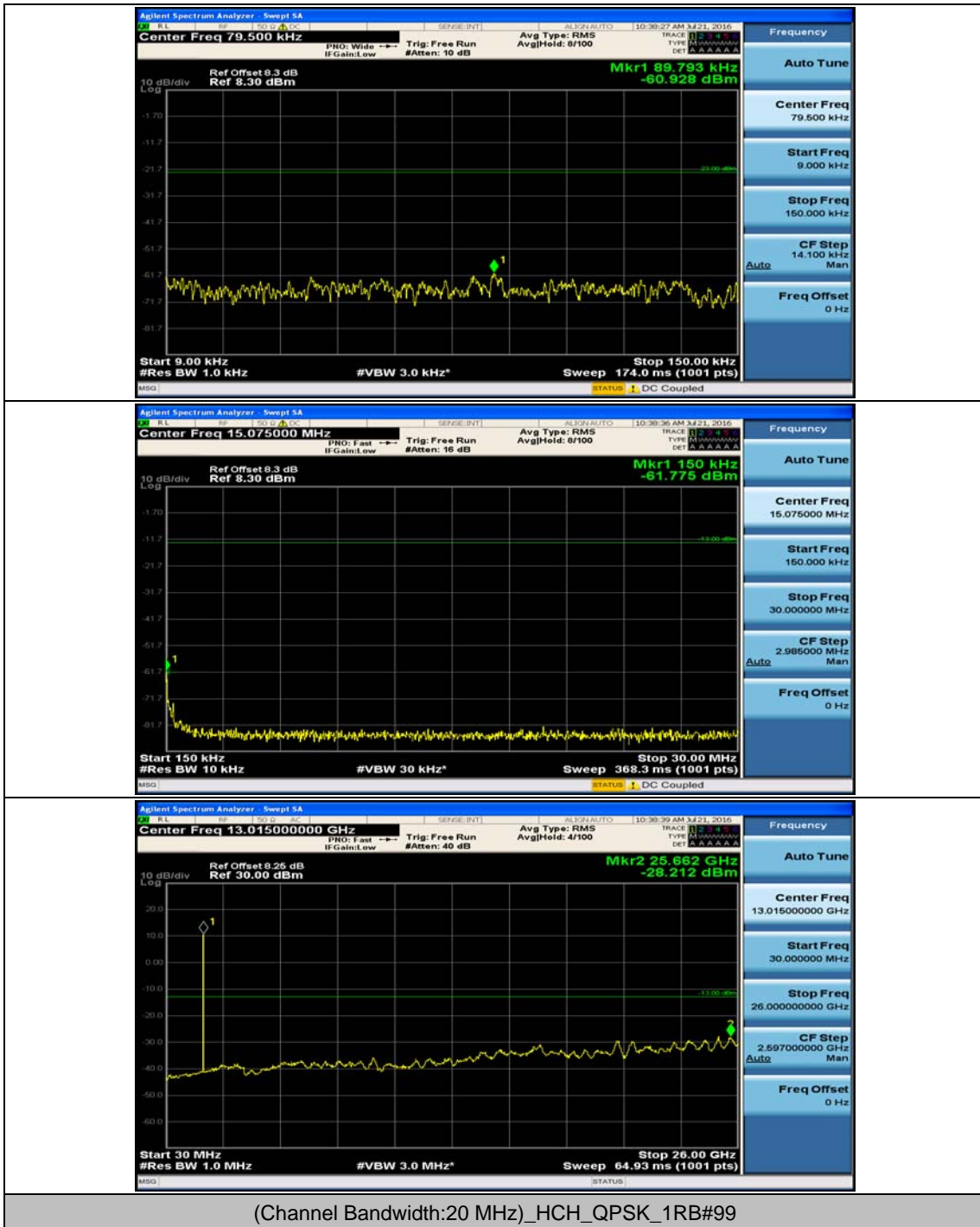


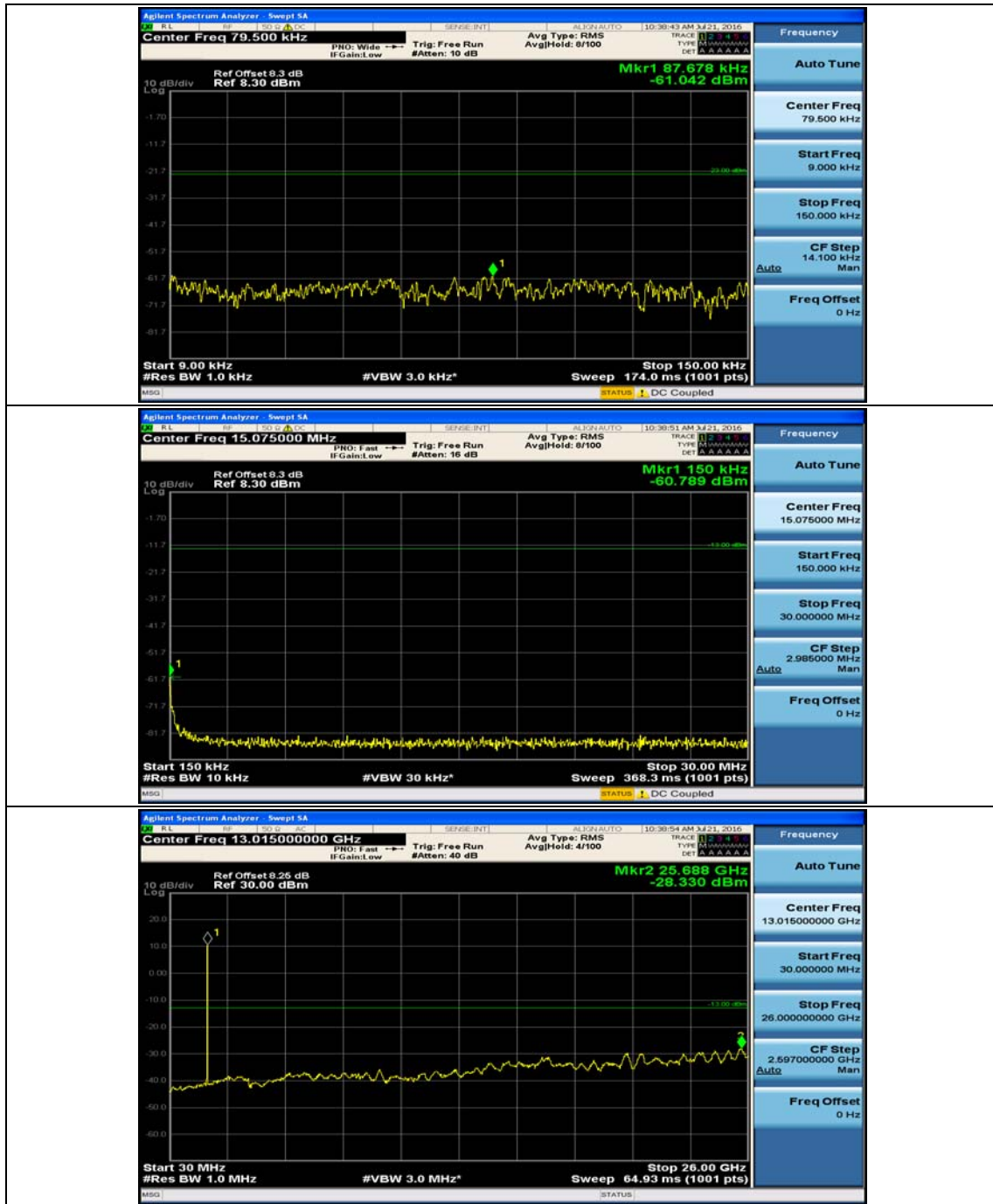


(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#0

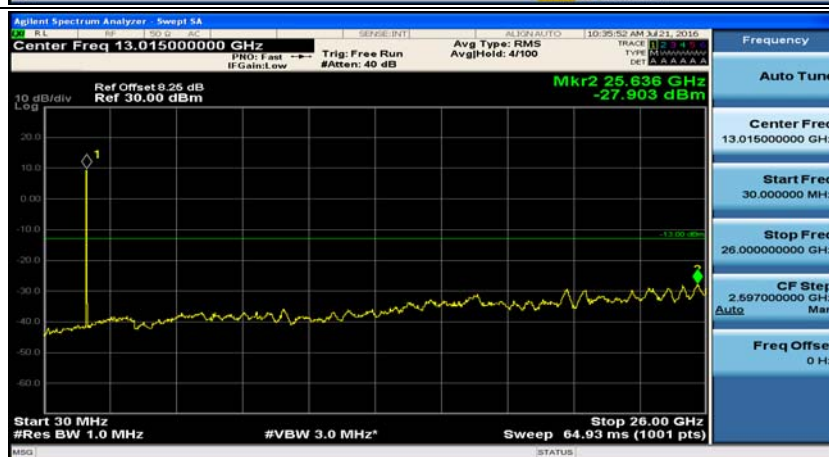
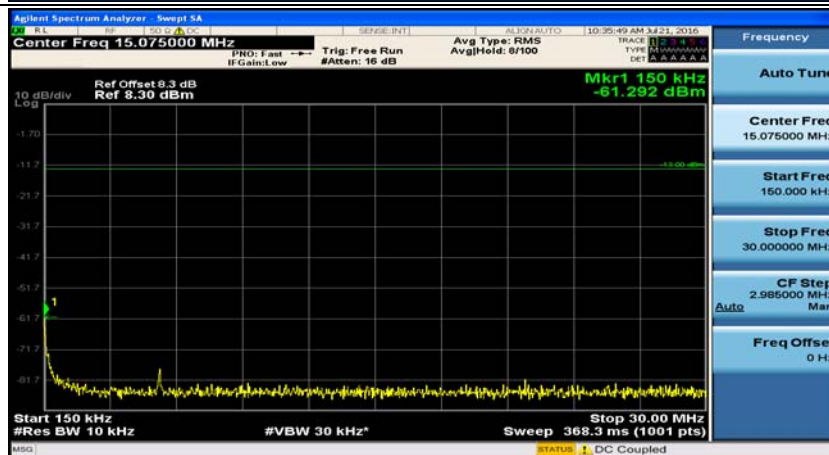
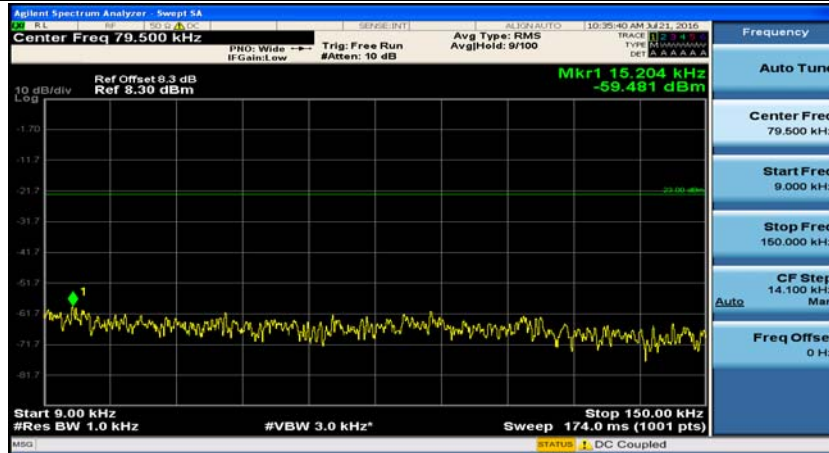


(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#49

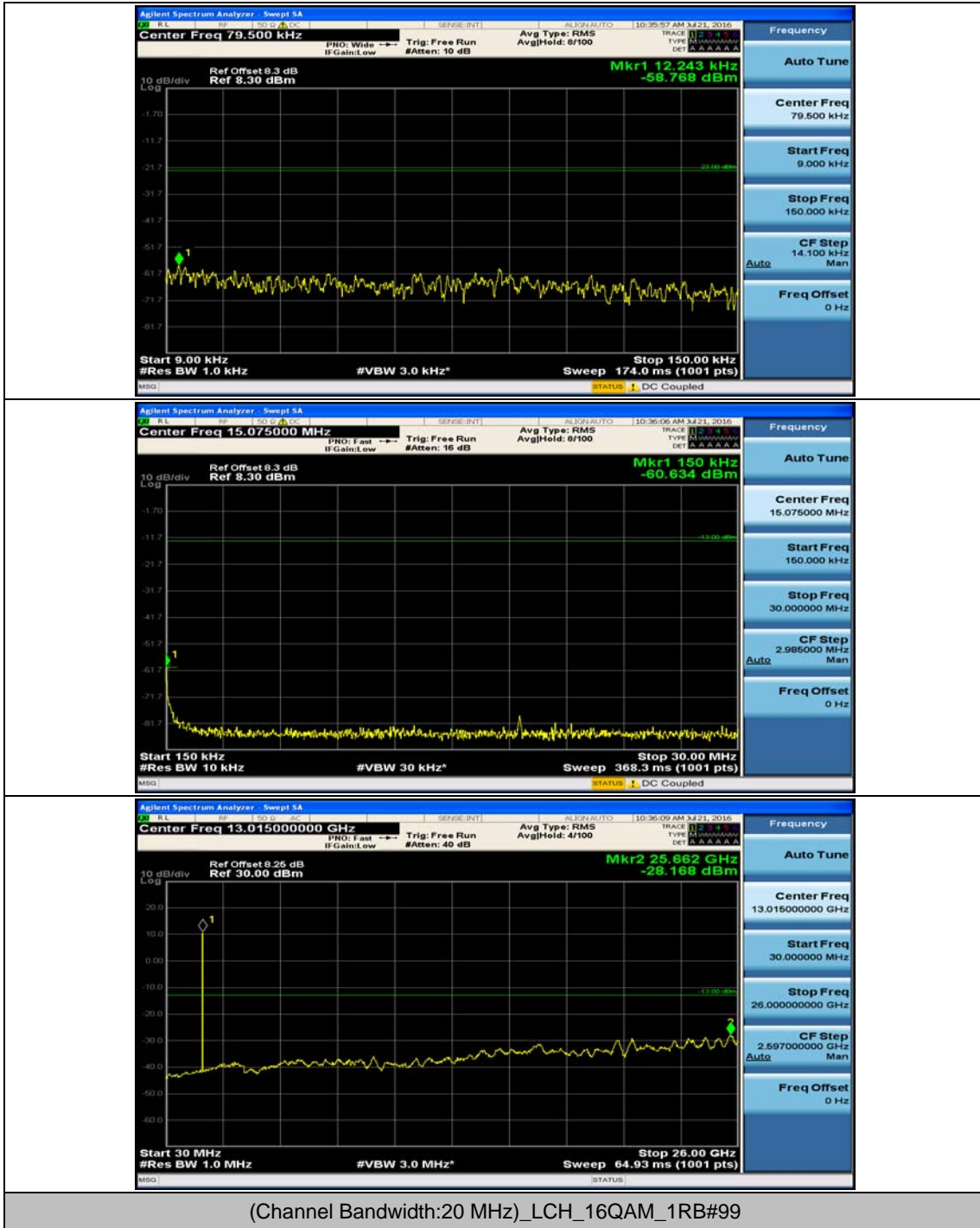


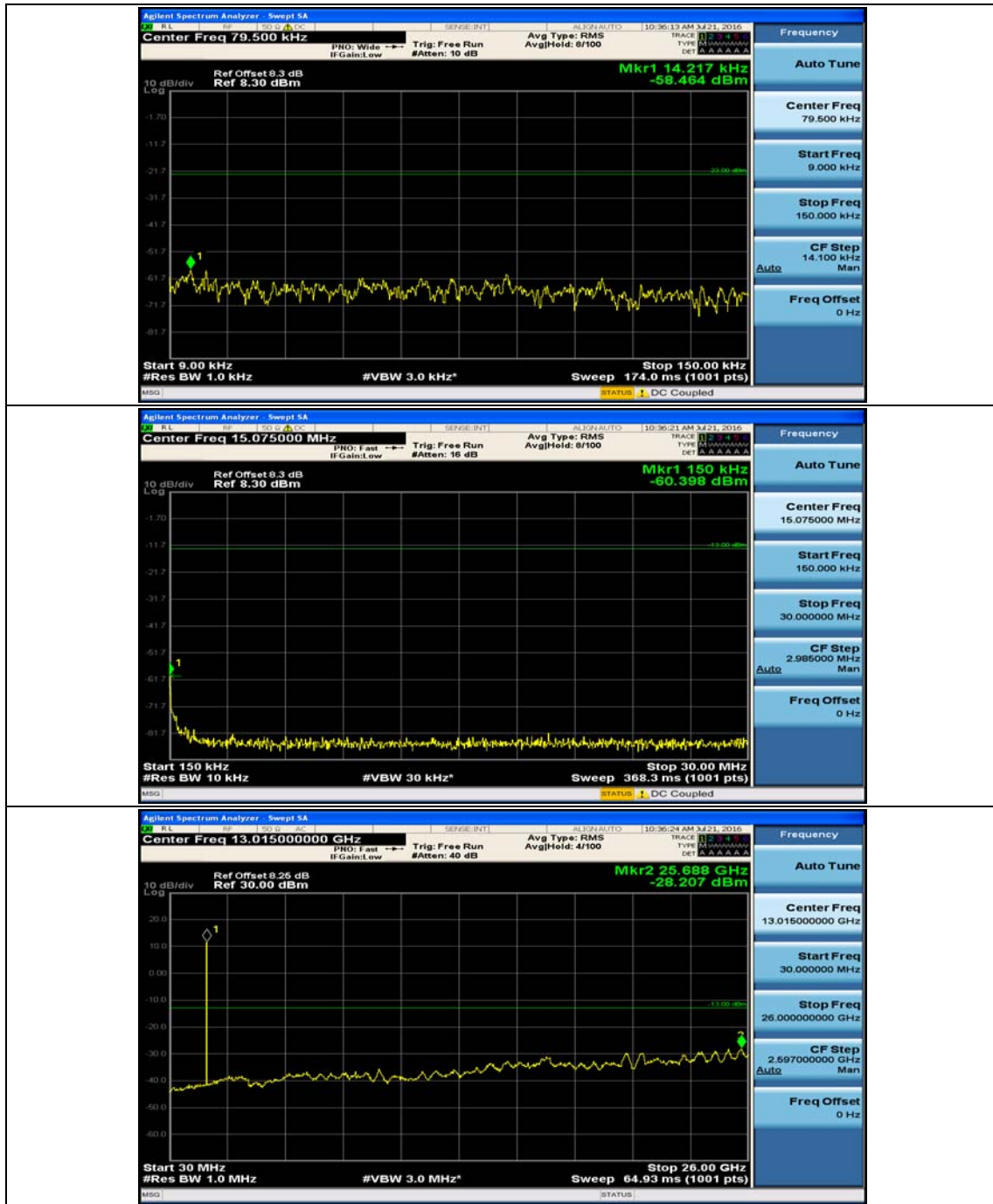


(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#0

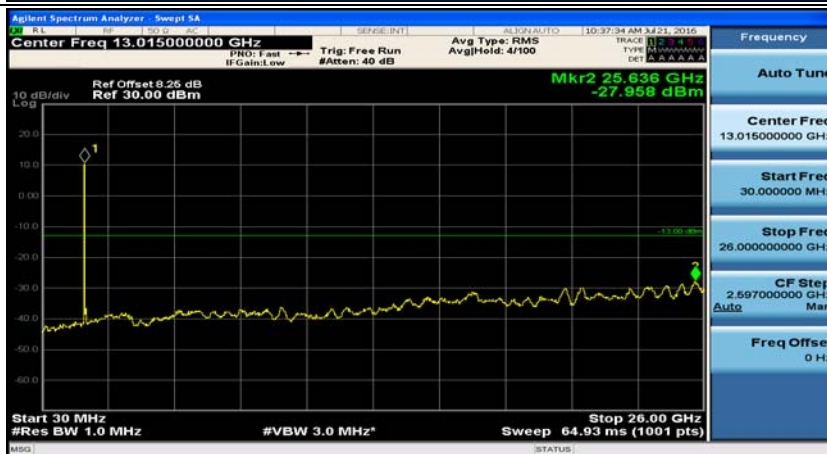
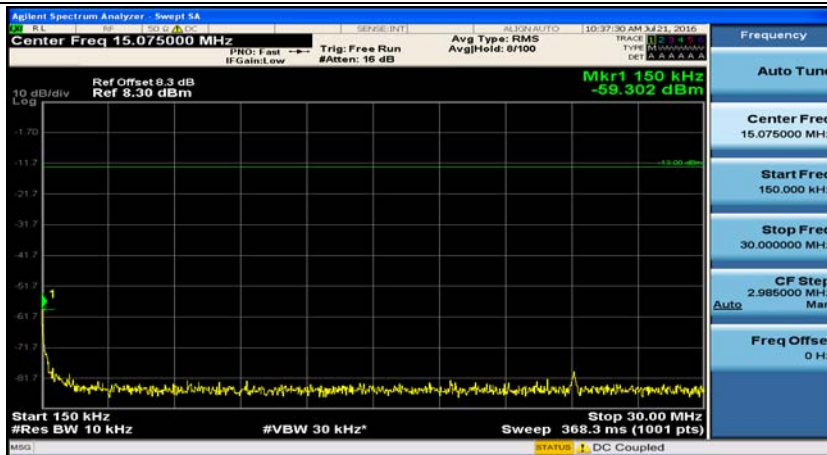
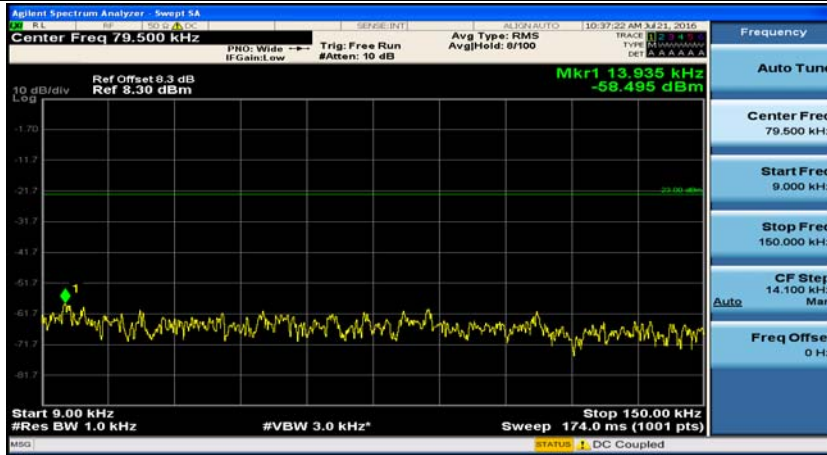


(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#49

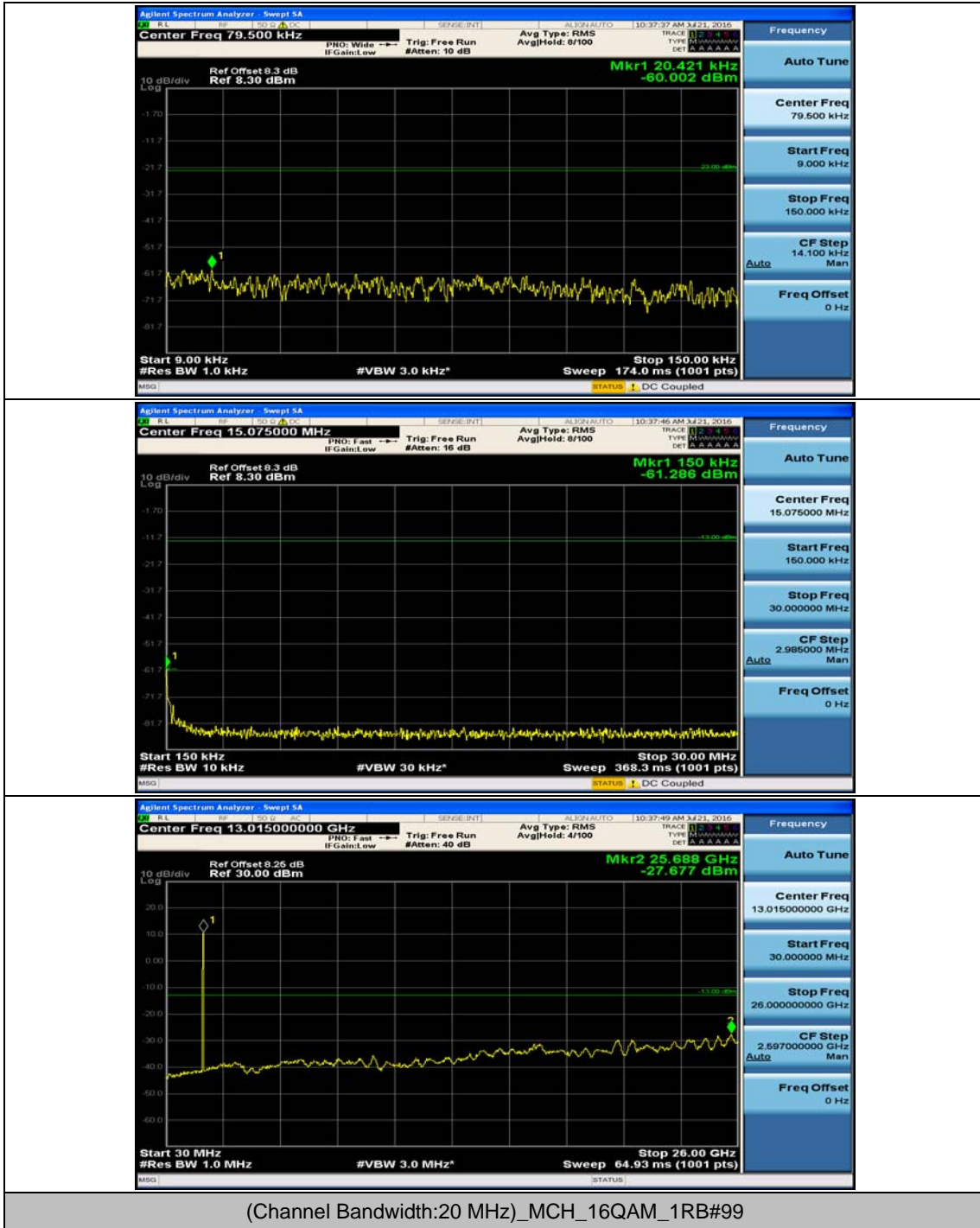


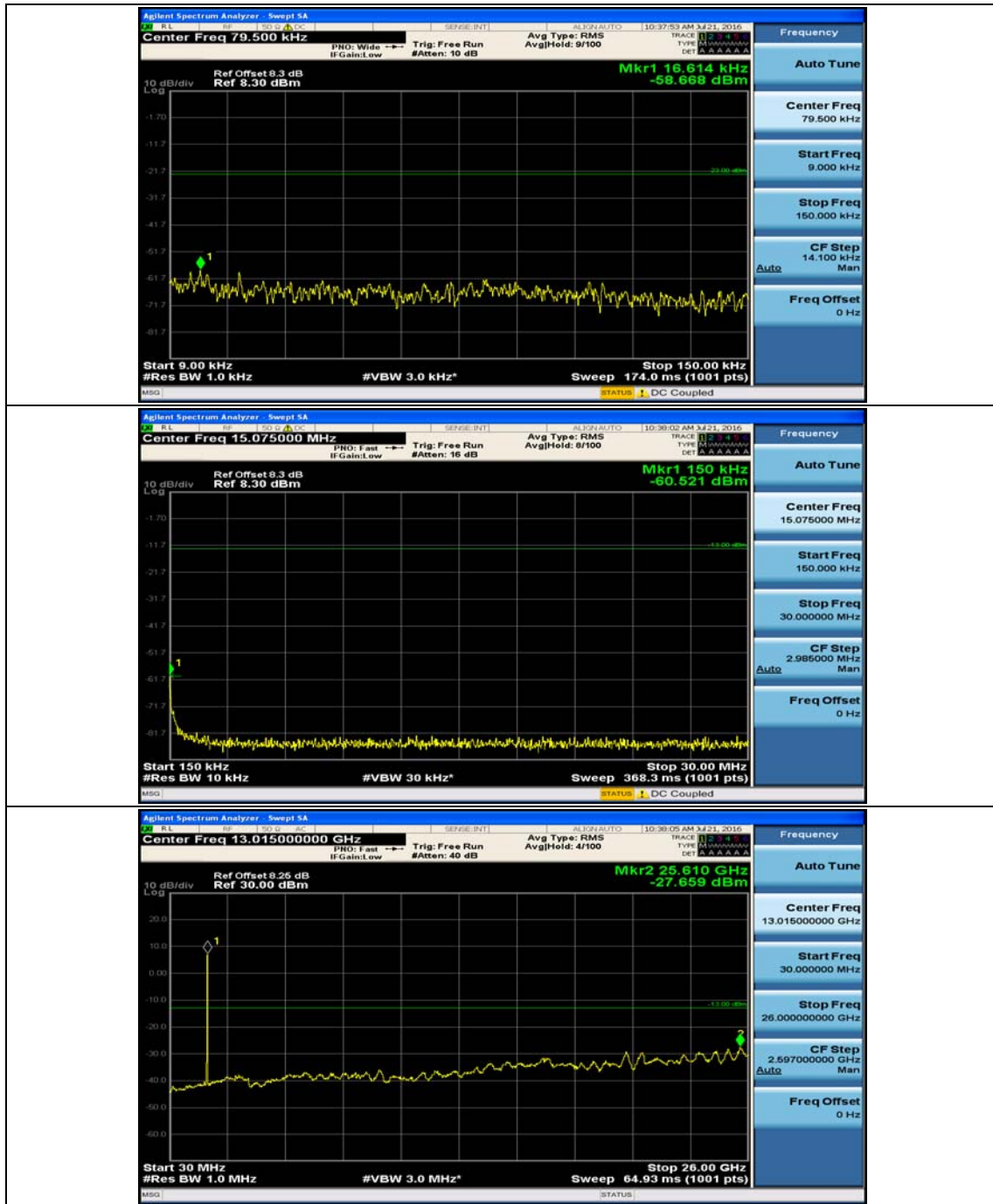


(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#0

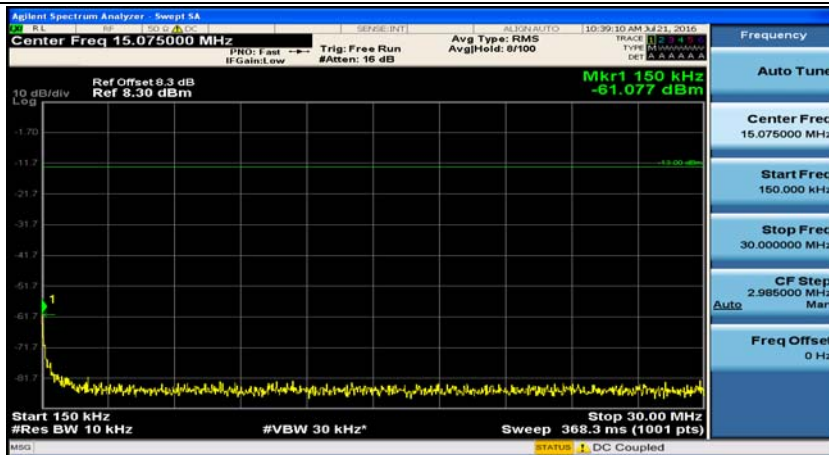
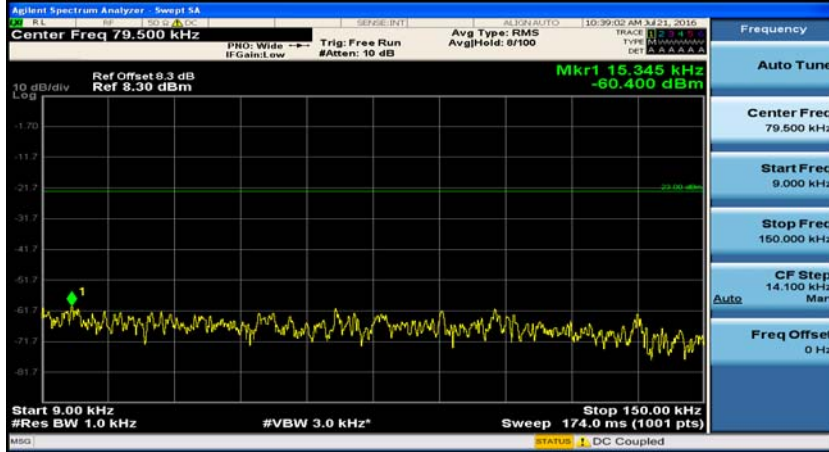


(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#49

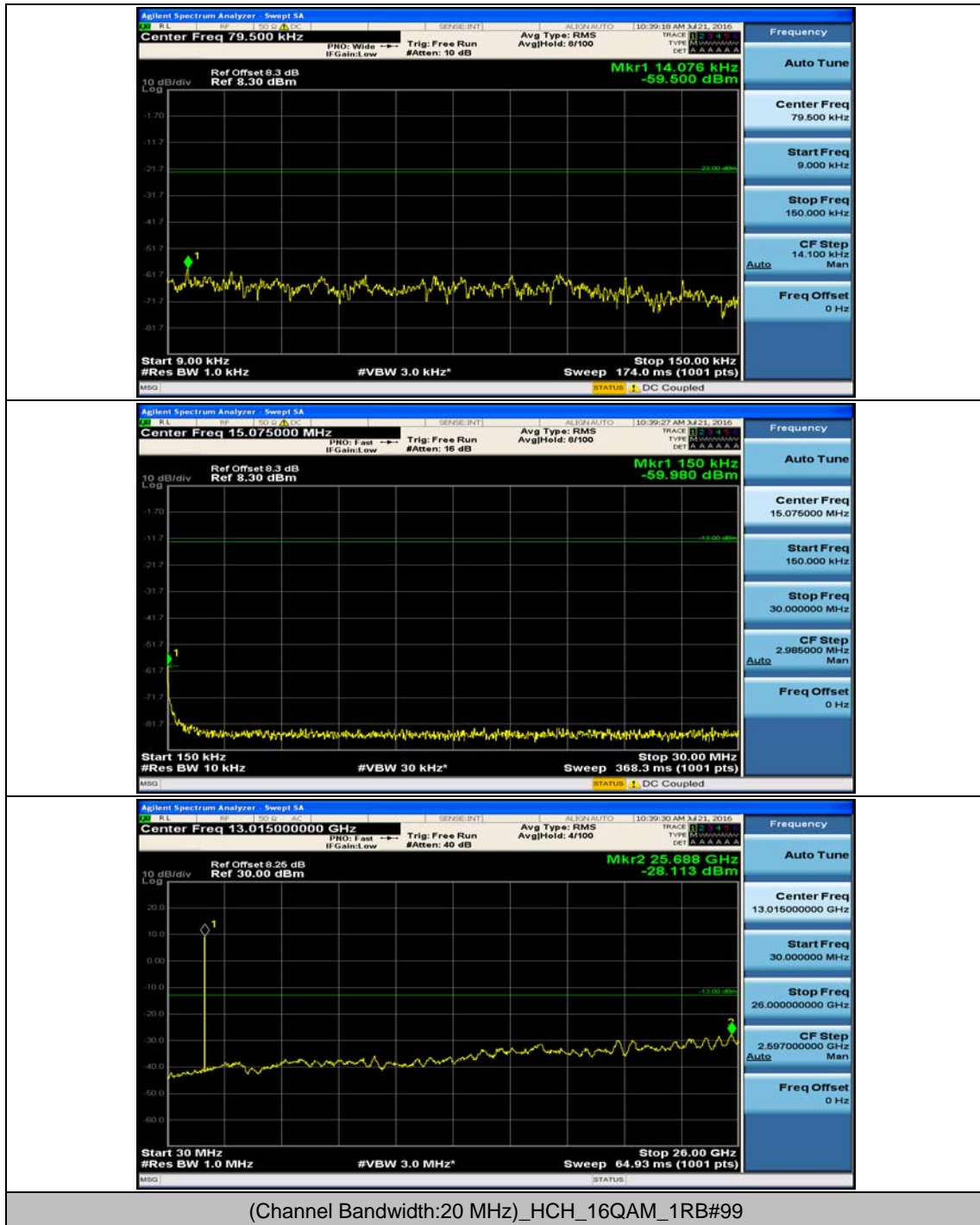


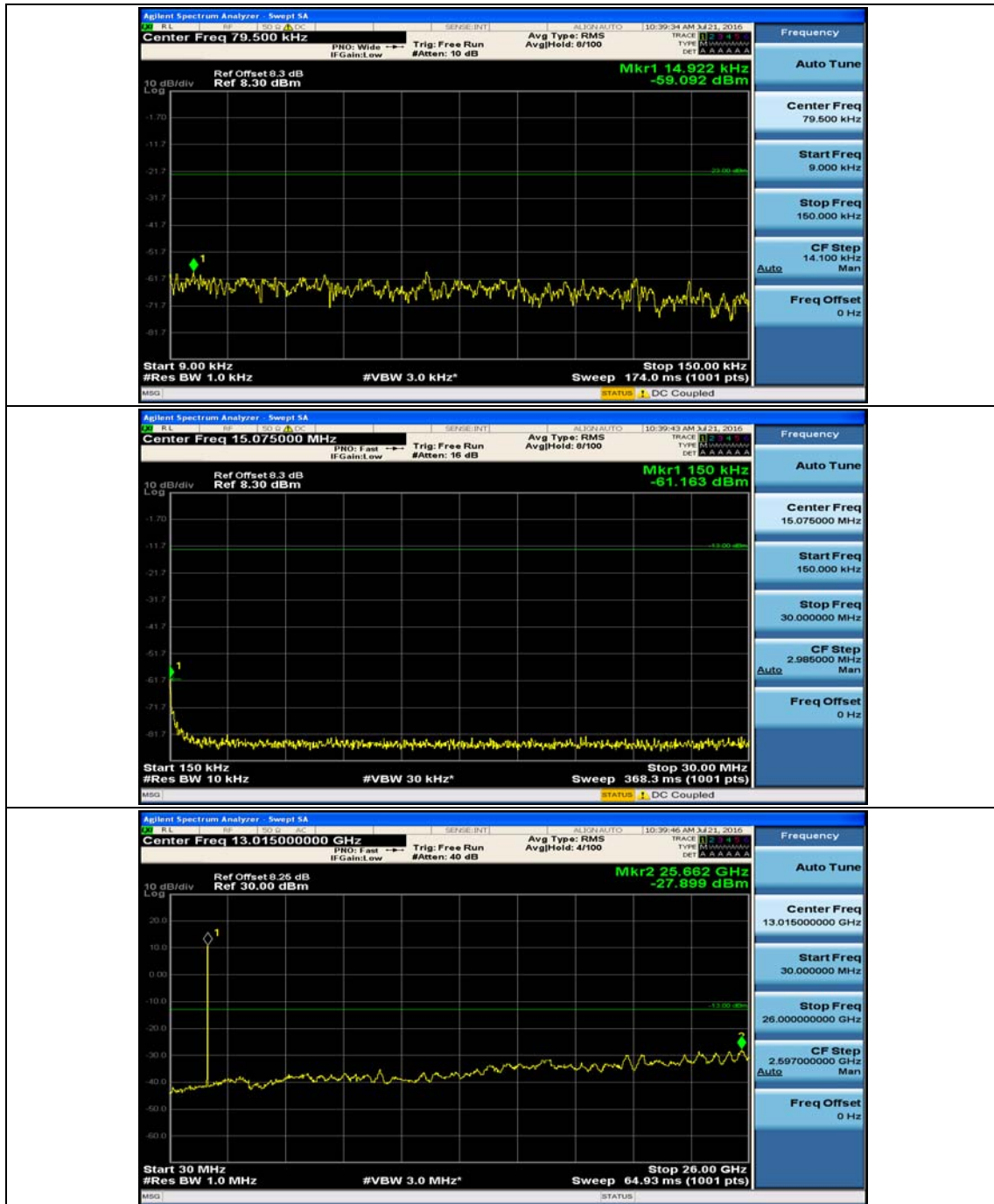


(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#0



(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	1.08	0.000631	± 2.5	PASS
		VN	TN	3.82	0.002233	± 2.5	PASS
		VH	TN	4.4	0.002572	± 2.5	PASS
	MCH	VL	TN	4.28	0.002470	± 2.5	PASS
		VN	TN	2.78	0.001605	± 2.5	PASS
		VH	TN	4.06	0.002343	± 2.5	PASS
	HCH	VL	TN	1.39	0.000792	± 2.5	PASS
		VN	TN	2.4	0.001368	± 2.5	PASS
		VH	TN	-1.15	-0.000656	± 2.5	PASS
16QAM	LCH	VL	TN	-0.32	-0.000187	± 2.5	PASS
		VN	TN	-1.57	-0.000918	± 2.5	PASS
		VH	TN	0.32	0.000187	± 2.5	PASS
	MCH	VL	TN	0.21	0.000121	± 2.5	PASS
		VN	TN	4.95	0.002857	± 2.5	PASS
		VH	TN	-0.07	-0.000040	± 2.5	PASS
	HCH	VL	TN	-0.16	-0.000091	± 2.5	PASS
		VN	TN	2.19	0.001248	± 2.5	PASS
		VH	TN	0.39	0.000222	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.85	0.001666	± 2.5	PASS
		VN	-20	3.27	0.001911	± 2.5	PASS
		VN	-10	1.76	0.001029	± 2.5	PASS
		VN	0	4.8	0.002806	± 2.5	PASS
		VN	10	-1.71	-0.001000	± 2.5	PASS
		VN	20	-0.45	-0.000263	± 2.5	PASS
		VN	30	-0.39	-0.000228	± 2.5	PASS
		VN	40	0.84	0.000491	± 2.5	PASS
	MCH	VN	-30	4.38	0.002528	± 2.5	PASS
		VN	-20	2.58	0.001489	± 2.5	PASS

		VN	-10	0.7	0.000404	± 2.5	PASS		
		VN	0	2.71	0.001564	± 2.5	PASS		
		VN	10	1.02	0.000589	± 2.5	PASS		
		VN	20	2.18	0.001258	± 2.5	PASS		
		VN	30	-2	-0.001154	± 2.5	PASS		
		VN	40	-0.33	-0.000190	± 2.5	PASS		
		VN	50	4.84	0.002794	± 2.5	PASS		
	HCH	VN	-30	1.59	0.000906	± 2.5	PASS		
		VN	-20	0.46	0.000262	± 2.5	PASS		
		VN	-10	2.51	0.001431	± 2.5	PASS		
		VN	0	1.83	0.001043	± 2.5	PASS		
		VN	10	0.93	0.000530	± 2.5	PASS		
		VN	20	0.28	0.000160	± 2.5	PASS		
		VN	30	4.84	0.002759	± 2.5	PASS		
		VN	40	-0.62	-0.000353	± 2.5	PASS		
		VN	50	1.26	0.000718	± 2.5	PASS		
		16QAM	LCH	VN	-30	1.76	0.001029	± 2.5	PASS
				VN	-20	-0.4	-0.000234	± 2.5	PASS
VN	-10			1.62	0.000947	± 2.5	PASS		
VN	0			4.1	0.002397	± 2.5	PASS		
VN	10			-1.05	-0.000614	± 2.5	PASS		
VN	20			-0.87	-0.000509	± 2.5	PASS		
VN	30			-1.23	-0.000719	± 2.5	PASS		
VN	40			-0.96	-0.000561	± 2.5	PASS		
VN	50			3.54	0.002069	± 2.5	PASS		
MCH	VN		-30	-0.01	-0.000006	± 2.5	PASS		
	VN		-20	3.42	0.001949	± 2.5	PASS		
	VN		-10	1.62	0.000923	± 2.5	PASS		
	VN		0	3.19	0.001818	± 2.5	PASS		
	VN		10	0.45	0.000257	± 2.5	PASS		
	VN		20	4.74	0.002702	± 2.5	PASS		
	VN		30	4.91	0.002799	± 2.5	PASS		
	VN		40	3.93	0.002240	± 2.5	PASS		
	VN		50	0.71	0.000405	± 2.5	PASS		
HCH	VN		-30	-1.91	-0.001089	± 2.5	PASS		
	VN		-20	1.37	0.000781	± 2.5	PASS		
	VN		-10	0.91	0.000519	± 2.5	PASS		
	VN		0	-1.61	-0.000918	± 2.5	PASS		
	VN		10	3.64	0.002075	± 2.5	PASS		
	VN		20	1.41	0.000804	± 2.5	PASS		
	VN		30	-0.14	-0.000080	± 2.5	PASS		

		VN	40	1.57	0.000895	± 2.5	PASS
		VN	50	3.6	0.002052	± 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	0.61	0.000356	± 2.5	PASS
		VN	TN	-0.06	-0.000035	± 2.5	PASS
		VH	TN	0.69	0.000403	± 2.5	PASS
	MCH	VL	TN	0.47	0.000271	± 2.5	PASS
		VN	TN	-1.93	-0.001114	± 2.5	PASS
		VH	TN	-0.2	-0.000115	± 2.5	PASS
	HCH	VL	TN	-0.24	-0.000137	± 2.5	PASS
		VN	TN	0.89	0.000508	± 2.5	PASS
		VH	TN	2.59	0.001477	± 2.5	PASS
16QAM	LCH	VL	TN	0.6	0.000351	± 2.5	PASS
		VN	TN	-0.66	-0.000386	± 2.5	PASS
		VH	TN	2.97	0.001735	± 2.5	PASS
	MCH	VL	TN	-1.06	-0.000612	± 2.5	PASS
		VN	TN	-1.52	-0.000877	± 2.5	PASS
		VH	TN	-1.04	-0.000600	± 2.5	PASS
	HCH	VL	TN	4.81	0.002743	± 2.5	PASS
		VN	TN	1.45	0.000827	± 2.5	PASS
		VH	TN	1.37	0.000781	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.85	0.001665	± 2.5	PASS
		VN	-20	4.23	0.002472	± 2.5	PASS
		VN	-10	0.49	0.000286	± 2.5	PASS
		VN	0	2.78	0.001624	± 2.5	PASS
		VN	10	-0.11	-0.000064	± 2.5	PASS
		VN	20	0.04	0.000023	± 2.5	PASS
		VN	30	0.73	0.000427	± 2.5	PASS
		VN	40	0.69	0.000403	± 2.5	PASS
		VN	50	2.63	0.001537	± 2.5	PASS
	MCH	VN	-30	4.29	0.002476	± 2.5	PASS
		VN	-20	0.16	0.000092	± 2.5	PASS
		VN	-10	4.37	0.002522	± 2.5	PASS

	VN	0	2.92	0.001685	± 2.5	PASS			
		10	4.13	0.002384	± 2.5	PASS			
		20	1.64	0.000947	± 2.5	PASS			
		30	2.3	0.001328	± 2.5	PASS			
		40	0.62	0.000358	± 2.5	PASS			
		50	-0.51	-0.000294	± 2.5	PASS			
	HCH	VN	-30	2.74	0.001563	± 2.5	PASS		
		VN	-20	-0.55	-0.000314	± 2.5	PASS		
		VN	-10	3.08	0.001756	± 2.5	PASS		
		VN	0	-1.83	-0.001044	± 2.5	PASS		
		VN	10	4	0.002281	± 2.5	PASS		
		VN	20	2.63	0.001500	± 2.5	PASS		
		VN	30	-1.75	-0.000998	± 2.5	PASS		
		VN	40	-0.78	-0.000445	± 2.5	PASS		
		VN	50	0.18	0.000103	± 2.5	PASS		
		16QAM	LCH	VN	-30	3.09	0.001784	± 2.5	PASS
				VN	-20	-0.75	-0.000433	± 2.5	PASS
				VN	-10	-0.58	-0.000335	± 2.5	PASS
VN	0			3.5	0.002020	± 2.5	PASS		
VN	10			-0.41	-0.000237	± 2.5	PASS		
VN	20			-1.55	-0.000895	± 2.5	PASS		
VN	30			2.69	0.001553	± 2.5	PASS		
VN	40			4.09	0.002361	± 2.5	PASS		
VN	50			1.42	0.000820	± 2.5	PASS		
MCH	VN		-30	1.51	0.000861	± 2.5	PASS		
	VN		-20	4.05	0.002310	± 2.5	PASS		
	VN		-10	4.97	0.002834	± 2.5	PASS		
	VN		0	1.16	0.000662	± 2.5	PASS		
	VN		10	1.26	0.000719	± 2.5	PASS		
	VN		20	1.26	0.000719	± 2.5	PASS		
	VN		30	-0.56	-0.000319	± 2.5	PASS		
	VN		40	-0.88	-0.000502	± 2.5	PASS		
	VN		50	1.22	0.000696	± 2.5	PASS		
HCH	VN		-30	3.86	0.002201	± 2.5	PASS		
	VN		-20	3.48	0.001985	± 2.5	PASS		
	VN		-10	3.47	0.001979	± 2.5	PASS		
	VN		0	4.13	0.002355	± 2.5	PASS		
	VN		10	4.85	0.002766	± 2.5	PASS		
	VN		20	1.37	0.000781	± 2.5	PASS		
	VN		30	2.41	0.001374	± 2.5	PASS		
	VN		40	1.65	0.000941	± 2.5	PASS		

		VN	50	-1.85	-0.001055	± 2.5	PASS
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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	2.08	0.001215	± 2.5	PASS
		VN	TN	4.55	0.002657	± 2.5	PASS
		VH	TN	1.94	0.001133	± 2.5	PASS
	MCH	VL	TN	3.5	0.002020	± 2.5	PASS
		VN	TN	-1.84	-0.001062	± 2.5	PASS
		VH	TN	-1.29	-0.000745	± 2.5	PASS
	HCH	VL	TN	1.31	0.000748	± 2.5	PASS
		VN	TN	-0.38	-0.000217	± 2.5	PASS
		VH	TN	3.22	0.001837	± 2.5	PASS
16QAM	LCH	VL	TN	-0.26	-0.000152	± 2.5	PASS
		VN	TN	-1.82	-0.001063	± 2.5	PASS
		VH	TN	-0.21	-0.000123	± 2.5	PASS
	MCH	VL	TN	1.32	0.000762	± 2.5	PASS
		VN	TN	2.48	0.001431	± 2.5	PASS
		VH	TN	2.54	0.001466	± 2.5	PASS
	HCH	VL	TN	4.71	0.002688	± 2.5	PASS
		VN	TN	4.55	0.002596	± 2.5	PASS
		VH	TN	4.2	0.002397	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.21	0.000707	± 2.5	PASS
		VN	-20	1.67	0.000975	± 2.5	PASS
		VN	-10	2.77	0.001618	± 2.5	PASS
		VN	0	-0.81	-0.000473	± 2.5	PASS
		VN	10	-1.93	-0.001127	± 2.5	PASS
		VN	20	1.03	0.000601	± 2.5	PASS
		VN	30	3.73	0.002178	± 2.5	PASS
		VN	40	0.06	0.000035	± 2.5	PASS
		VN	50	-0.55	-0.000321	± 2.5	PASS
	MCH	VN	-30	1.4	0.000808	± 2.5	PASS
		VN	-20	4.5	0.002597	± 2.5	PASS
		VN	-10	-0.61	-0.000352	± 2.5	PASS
		VN	0	-0.35	-0.000202	± 2.5	PASS

		VN	10	-0.01	-0.000006	± 2.5	PASS
		VN	20	3.09	0.001784	± 2.5	PASS
		VN	30	2.68	0.001547	± 2.5	PASS
		VN	40	1.69	0.000975	± 2.5	PASS
		VN	50	0.49	0.000283	± 2.5	PASS
	HCH	VN	-30	-0.98	-0.000559	± 2.5	PASS
		VN	-20	1.95	0.001022	± 2.5	PASS
		VN	-10	4.65	0.002438	± 2.5	PASS
		VN	0	2.5	0.001311	± 2.5	PASS
		VN	10	-0.29	-0.000152	± 2.5	PASS
		VN	20	0.58	0.000304	± 2.5	PASS
		VN	30	0.59	0.000309	± 2.5	PASS
		VN	40	2.53	0.001326	± 2.5	PASS
		VN	50	-0.11	-0.000058	± 2.5	PASS
		16QAM	LCH	VN	-30	4.06	0.002343
VN	-20			3.79	0.002188	± 2.5	PASS
VN	-10			0.65	0.000375	± 2.5	PASS
VN	0			1.59	0.000918	± 2.5	PASS
VN	10			2.88	0.001662	± 2.5	PASS
VN	20			2.45	0.001414	± 2.5	PASS
VN	30			3.86	0.002228	± 2.5	PASS
VN	40			3.81	0.002199	± 2.5	PASS
VN	50			0.89	0.000514	± 2.5	PASS
MCH	VN		-30	-1.25	-0.000713	± 2.5	PASS
	VN		-20	0.74	0.000422	± 2.5	PASS
	VN		-10	4.48	0.002556	± 2.5	PASS
	VN		0	-1.47	-0.000839	± 2.5	PASS
	VN		10	-0.6	-0.000342	± 2.5	PASS
	VN		20	-0.19	-0.000108	± 2.5	PASS
	VN		30	-1.17	-0.000668	± 2.5	PASS
	VN		40	2.92	0.001666	± 2.5	PASS
	VN		50	0.66	0.000377	± 2.5	PASS
HCH	VN		-30	2.03	0.001064	± 2.5	PASS
	VN		-20	2.21	0.001159	± 2.5	PASS
	VN		-10	-0.95	-0.000498	± 2.5	PASS
	VN		0	4.71	0.002469	± 2.5	PASS
	VN		10	-0.39	-0.000204	± 2.5	PASS
	VN		20	2.79	0.001463	± 2.5	PASS
	VN		30	3.93	0.002060	± 2.5	PASS
	VN		40	2.9	0.001520	± 2.5	PASS
	VN		50	-0.85	-0.000446	± 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	0.47	0.000274	± 2.5	PASS
		VN	TN	-1.88	-0.001096	± 2.5	PASS
		VH	TN	1.47	0.000857	± 2.5	PASS
	MCH	VL	TN	1.36	0.000785	± 2.5	PASS
		VN	TN	1.55	0.000895	± 2.5	PASS
		VH	TN	1.6	0.000924	± 2.5	PASS
	HCH	VL	TN	1.85	0.001057	± 2.5	PASS
		VN	TN	-0.28	-0.000160	± 2.5	PASS
		VH	TN	4.38	0.002503	± 2.5	PASS
16QAM	LCH	VL	TN	0.14	0.000082	± 2.5	PASS
		VN	TN	1.17	0.000682	± 2.5	PASS
		VH	TN	2.59	0.001510	± 2.5	PASS
	MCH	VL	TN	3.78	0.002182	± 2.5	PASS
		VN	TN	0.22	0.000127	± 2.5	PASS
		VH	TN	-1.07	-0.000618	± 2.5	PASS
	HCH	VL	TN	-1.5	-0.000857	± 2.5	PASS
		VN	TN	0.13	0.000074	± 2.5	PASS
		VH	TN	-1.8	-0.001029	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	1.6	0.000933	± 2.5	PASS
		VN	-20	-1.7	-0.000991	± 2.5	PASS
		VN	-10	1.38	0.000805	± 2.5	PASS
		VN	0	3.37	0.001965	± 2.5	PASS
		VN	10	4.74	0.002764	± 2.5	PASS
		VN	20	4.97	0.002898	± 2.5	PASS
		VN	30	3.13	0.001825	± 2.5	PASS
		VN	40	4.19	0.002443	± 2.5	PASS
	MCH	VN	50	1.58	0.000921	± 2.5	PASS
		VN	-30	4.26	0.002459	± 2.5	PASS
		VN	-20	-0.29	-0.000167	± 2.5	PASS
		VN	-10	4.96	0.002863	± 2.5	PASS
		VN	0	-1.11	-0.000641	± 2.5	PASS
		VN	10	-0.7	-0.000404	± 2.5	PASS
VN	20	0.19	0.000110	± 2.5	PASS		

	VN	30	1	0.000577	± 2.5	PASS	
		40	-0.88	-0.000508	± 2.5	PASS	
		50	-0.58	-0.000335	± 2.5	PASS	
	HCH	VN	-30	4.03	0.002303	± 2.5	PASS
		VN	-20	1.82	0.001040	± 2.5	PASS
		VN	-10	3.53	0.002017	± 2.5	PASS
		VN	0	-0.03	-0.000017	± 2.5	PASS
		VN	10	0.48	0.000274	± 2.5	PASS
		VN	20	3.95	0.002257	± 2.5	PASS
		VN	30	0.97	0.000554	± 2.5	PASS
		VN	40	0.19	0.000109	± 2.5	PASS
		VN	50	0.36	0.000206	± 2.5	PASS
QPSK	LCH	VN	-30	2.19	0.001264	± 2.5	PASS
		VN	-20	4.36	0.002517	± 2.5	PASS
		VN	-10	3.65	0.002107	± 2.5	PASS
		VN	0	-1.52	-0.000877	± 2.5	PASS
		VN	10	4.16	0.002401	± 2.5	PASS
		VN	20	0.32	0.000185	± 2.5	PASS
		VN	30	-0.73	-0.000421	± 2.5	PASS
		VN	40	-0.43	-0.000248	± 2.5	PASS
		VN	50	4.65	0.002684	± 2.5	PASS
	MCH	VN	-30	-0.28	-0.000160	± 2.5	PASS
		VN	-20	0.58	0.000331	± 2.5	PASS
		VN	-10	4.81	0.002749	± 2.5	PASS
		VN	0	-1.01	-0.000577	± 2.5	PASS
		VN	10	0.61	0.000349	± 2.5	PASS
		VN	20	1.92	0.001097	± 2.5	PASS
		VN	30	0.96	0.000549	± 2.5	PASS
		VN	40	0.55	0.000314	± 2.5	PASS
		VN	50	-1.7	-0.000971	± 2.5	PASS
	HCH	VN	-30	0.32	0.000183	± 2.5	PASS
		VN	-20	4.79	0.002737	± 2.5	PASS
		VN	-10	1	0.000571	± 2.5	PASS
		VN	0	0.42	0.000240	± 2.5	PASS
		VN	10	2.64	0.001509	± 2.5	PASS
		VN	20	-0.2	-0.000114	± 2.5	PASS
		VN	30	1.54	0.000880	± 2.5	PASS
		VN	40	0.99	0.000566	± 2.5	PASS
		VN	50	3.87	0.002211	± 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	-1.21	-0.000705	± 2.5	PASS
		VN	TN	2.4	0.001397	± 2.5	PASS
		VH	TN	-0.57	-0.000332	± 2.5	PASS
	MCH	VL	TN	3.67	0.002118	± 2.5	PASS
		VN	TN	-0.41	-0.000237	± 2.5	PASS
		VH	TN	3.83	0.002211	± 2.5	PASS
	HCH	VL	TN	1.11	0.000635	± 2.5	PASS
		VN	TN	-0.12	-0.000069	± 2.5	PASS
		VH	TN	0.02	0.000011	± 2.5	PASS
16QAM	LCH	VL	TN	3.85	0.002242	± 2.5	PASS
		VN	TN	1.4	0.000815	± 2.5	PASS
		VH	TN	0.36	0.000210	± 2.5	PASS
	MCH	VL	TN	-1.36	-0.000785	± 2.5	PASS
		VN	TN	1.47	0.000848	± 2.5	PASS
		VH	TN	4.67	0.002696	± 2.5	PASS
	HCH	VL	TN	2.7	0.001545	± 2.5	PASS
		VN	TN	4.23	0.002421	± 2.5	PASS
		VH	TN	4.02	0.002300	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.18	0.002434	± 2.5	PASS
		VN	-20	-0.26	-0.000151	± 2.5	PASS
		VN	-10	4.65	0.002707	± 2.5	PASS
		VN	0	2.72	0.001584	± 2.5	PASS
		VN	10	4.02	0.002341	± 2.5	PASS
		VN	20	1.94	0.001130	± 2.5	PASS
		VN	30	-1.81	-0.001054	± 2.5	PASS
		VN	40	4.38	0.002550	± 2.5	PASS
		VN	50	4.97	0.002894	± 2.5	PASS
	MCH	VN	-30	1.53	0.000883	± 2.5	PASS
		VN	-20	4.03	0.002326	± 2.5	PASS
		VN	-10	0.9	0.000519	± 2.5	PASS
		VN	0	-1.83	-0.001056	± 2.5	PASS
		VN	10	-0.48	-0.000277	± 2.5	PASS
		VN	20	1.07	0.000618	± 2.5	PASS

		VN	30	-0.03	-0.000017	± 2.5	PASS
		VN	40	0.61	0.000352	± 2.5	PASS
		VN	50	1.12	0.000646	± 2.5	PASS
	HCH	VN	-30	0.42	0.000240	± 2.5	PASS
		VN	-20	4.44	0.002541	± 2.5	PASS
		VN	-10	4.82	0.002758	± 2.5	PASS
		VN	0	1.3	0.000744	± 2.5	PASS
		VN	10	-0.3	-0.000172	± 2.5	PASS
		VN	20	0.29	0.000166	± 2.5	PASS
		VN	30	3.82	0.002186	± 2.5	PASS
		VN	40	0.86	0.000492	± 2.5	PASS
		VN	50	0.61	0.000349	± 2.5	PASS
16QAM	LCH	VN	-30	1.67	0.000964	± 2.5	PASS
		VN	-20	1.05	0.000606	± 2.5	PASS
		VN	-10	0.01	0.000006	± 2.5	PASS
		VN	0	-1.03	-0.000595	± 2.5	PASS
		VN	10	3.79	0.002188	± 2.5	PASS
		VN	20	1.18	0.000681	± 2.5	PASS
		VN	30	2.66	0.001535	± 2.5	PASS
		VN	40	-1.08	-0.000623	± 2.5	PASS
		VN	50	2.54	0.001466	± 2.5	PASS
	MCH	VN	-30	2.27	0.001299	± 2.5	PASS
		VN	-20	-0.52	-0.000298	± 2.5	PASS
		VN	-10	2.21	0.001265	± 2.5	PASS
		VN	0	2.62	0.001499	± 2.5	PASS
		VN	10	1.01	0.000578	± 2.5	PASS
		VN	20	0.31	0.000177	± 2.5	PASS
		VN	30	3.91	0.002237	± 2.5	PASS
		VN	40	-1.03	-0.000589	± 2.5	PASS
		VN	50	1.98	0.001133	± 2.5	PASS
	HCH	VN	-30	-1.21	-0.000692	± 2.5	PASS
		VN	-20	1.85	0.001059	± 2.5	PASS
		VN	-10	-0.48	-0.000275	± 2.5	PASS
		VN	0	0.3	0.000172	± 2.5	PASS
		VN	10	-1.85	-0.001059	± 2.5	PASS
		VN	20	-1.5	-0.000858	± 2.5	PASS
VN		30	-0.18	-0.000103	± 2.5	PASS	
VN		40	4.96	0.002838	± 2.5	PASS	
VN		50	-0.46	-0.000263	± 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	3.3	0.001919	± 2.5	PASS
		VN	TN	-0.77	-0.000448	± 2.5	PASS
		VH	TN	2.38	0.001384	± 2.5	PASS
	MCH	VL	TN	-1.07	-0.000618	± 2.5	PASS
		VN	TN	1.88	0.001085	± 2.5	PASS
		VH	TN	-1.04	-0.000600	± 2.5	PASS
	HCH	VL	TN	1.46	0.000837	± 2.5	PASS
		VN	TN	-0.5	-0.000287	± 2.5	PASS
		VH	TN	4.05	0.002321	± 2.5	PASS
16QAM	LCH	VL	TN	0.32	0.000186	± 2.5	PASS
		VN	TN	-0.8	-0.000465	± 2.5	PASS
		VH	TN	4.6	0.002674	± 2.5	PASS
	MCH	VL	TN	-1.29	-0.000745	± 2.5	PASS
		VN	TN	3.42	0.001974	± 2.5	PASS
		VH	TN	3.91	0.002257	± 2.5	PASS
	HCH	VL	TN	1.99	0.001140	± 2.5	PASS
		VN	TN	-0.39	-0.000223	± 2.5	PASS
		VH	TN	4.49	0.002573	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.27	0.001901	± 2.5	PASS
		VN	-20	-1.37	-0.000797	± 2.5	PASS
		VN	-10	-1.77	-0.001029	± 2.5	PASS
		VN	0	3.6	0.002093	± 2.5	PASS
		VN	10	3.39	0.001971	± 2.5	PASS
		VN	20	2.65	0.001541	± 2.5	PASS
		VN	30	-0.51	-0.000297	± 2.5	PASS
		VN	40	4.88	0.002837	± 2.5	PASS
		VN	50	-1.73	-0.001006	± 2.5	PASS
	MCH	VN	-30	0.14	0.000081	± 2.5	PASS
		VN	-20	-1.79	-0.001033	± 2.5	PASS
		VN	-10	2.82	0.001628	± 2.5	PASS
		VN	0	4.34	0.002505	± 2.5	PASS
		VN	10	2.47	0.001426	± 2.5	PASS
		VN	20	4.91	0.002834	± 2.5	PASS

		VN	30	2.29	0.001322	± 2.5	PASS
		VN	40	3.61	0.002084	± 2.5	PASS
		VN	50	2.03	0.001172	± 2.5	PASS
	HCH	VN	-30	3.5	0.002006	± 2.5	PASS
		VN	-20	1.99	0.001140	± 2.5	PASS
		VN	-10	-1.59	-0.000911	± 2.5	PASS
		VN	0	3.91	0.002241	± 2.5	PASS
		VN	10	0.13	0.000074	± 2.5	PASS
		VN	20	0.22	0.000126	± 2.5	PASS
		VN	30	0.09	0.000052	± 2.5	PASS
		VN	40	3.91	0.002241	± 2.5	PASS
		VN	50	3.91	0.002241	± 2.5	PASS
		16QAM	LCH	VN	-30	4.23	0.002442
VN	-20			1.11	0.000641	± 2.5	PASS
VN	-10			4.78	0.002759	± 2.5	PASS
VN	0			-0.39	-0.000225	± 2.5	PASS
VN	10			4.77	0.002753	± 2.5	PASS
VN	20			2.79	0.001610	± 2.5	PASS
VN	30			4.42	0.002551	± 2.5	PASS
VN	40			-1.53	-0.000883	± 2.5	PASS
MCH	VN		50	0.41	0.000237	± 2.5	PASS
	VN		-30	2.91	0.001668	± 2.5	PASS
	VN		-20	1.64	0.000940	± 2.5	PASS
	VN		-10	-1.36	-0.000779	± 2.5	PASS
	VN		0	1.89	0.001083	± 2.5	PASS
	VN		10	3.49	0.002000	± 2.5	PASS
	VN		20	-1.92	-0.001100	± 2.5	PASS
	VN		30	3.8	0.002178	± 2.5	PASS
	VN		40	-1.87	-0.001072	± 2.5	PASS
	VN		50	-1.39	-0.000797	± 2.5	PASS
HCH	VN		-30	-1.41	-0.000808	± 2.5	PASS
	VN		-20	-1.62	-0.000928	± 2.5	PASS
	VN		-10	1.78	0.001020	± 2.5	PASS
	VN		0	-1.78	-0.001020	± 2.5	PASS
	VN		10	-2	-0.001146	± 2.5	PASS
	VN		20	1.82	0.001043	± 2.5	PASS
	VN		30	3.5	0.002006	± 2.5	PASS
	VN		40	4.6	0.002636	± 2.5	PASS
VN	50		-1.24	-0.000711	± 2.5	PASS	