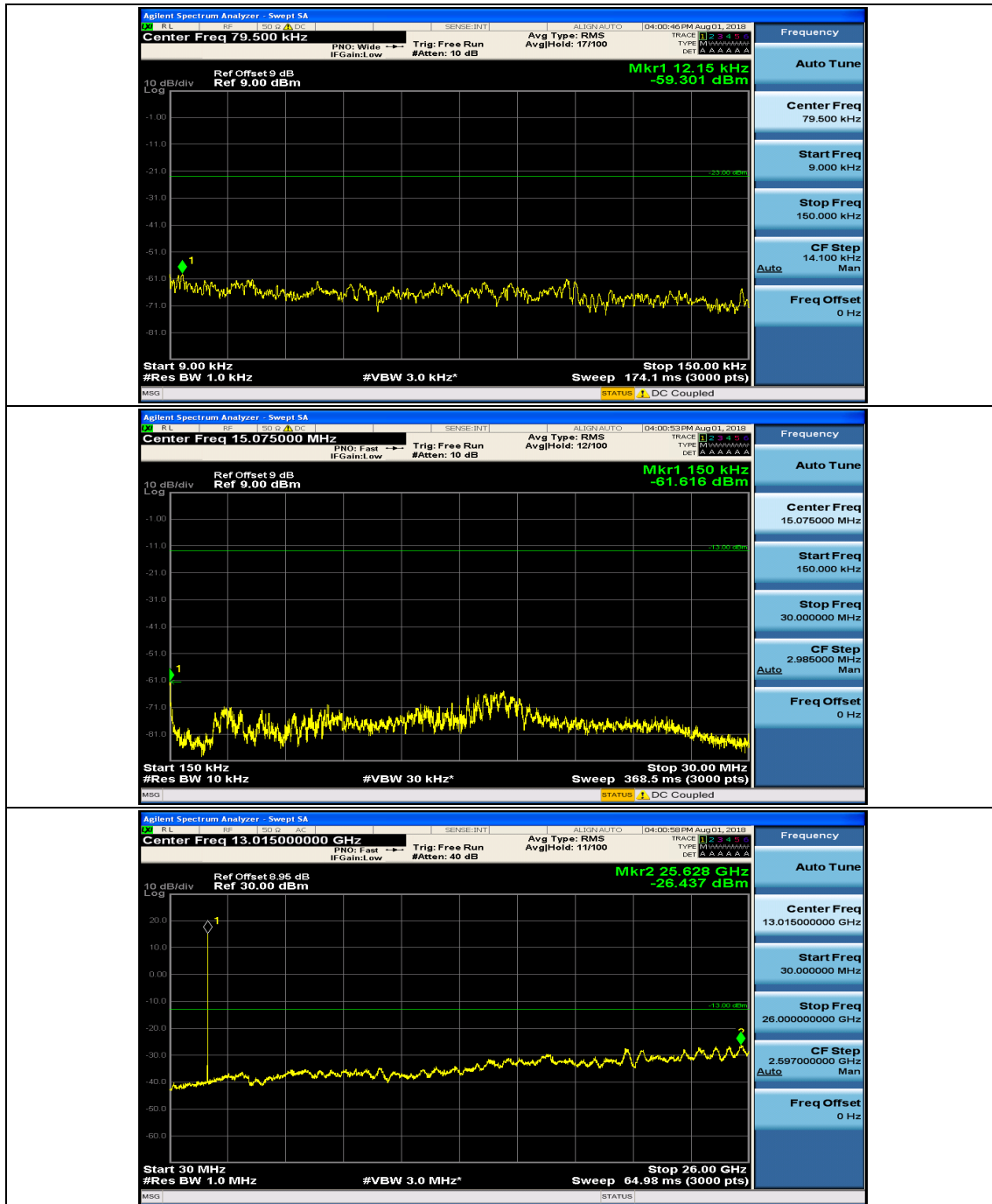
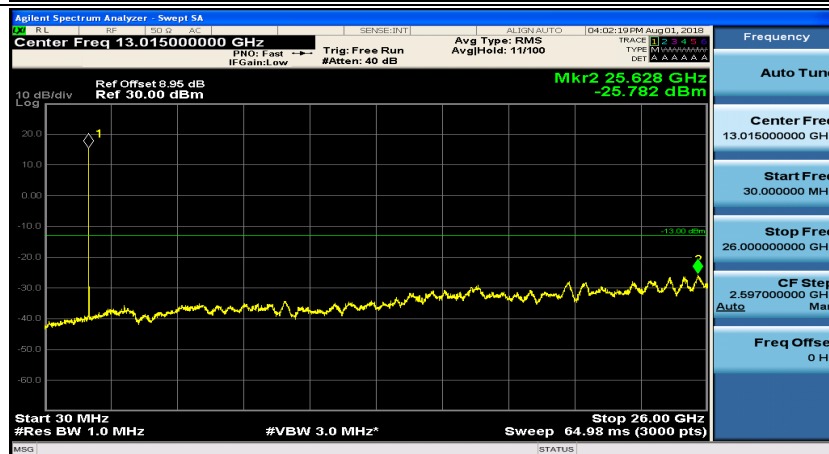
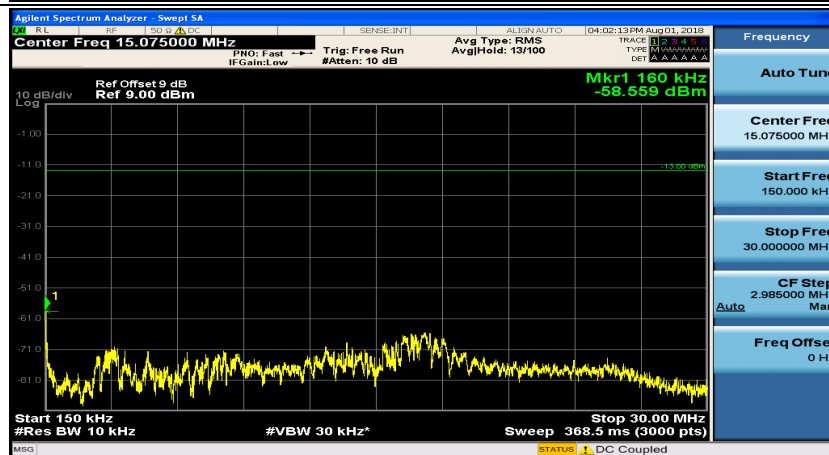
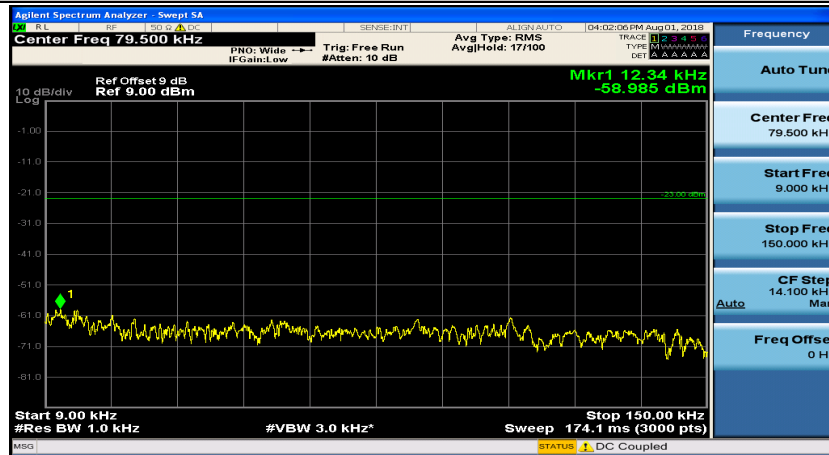
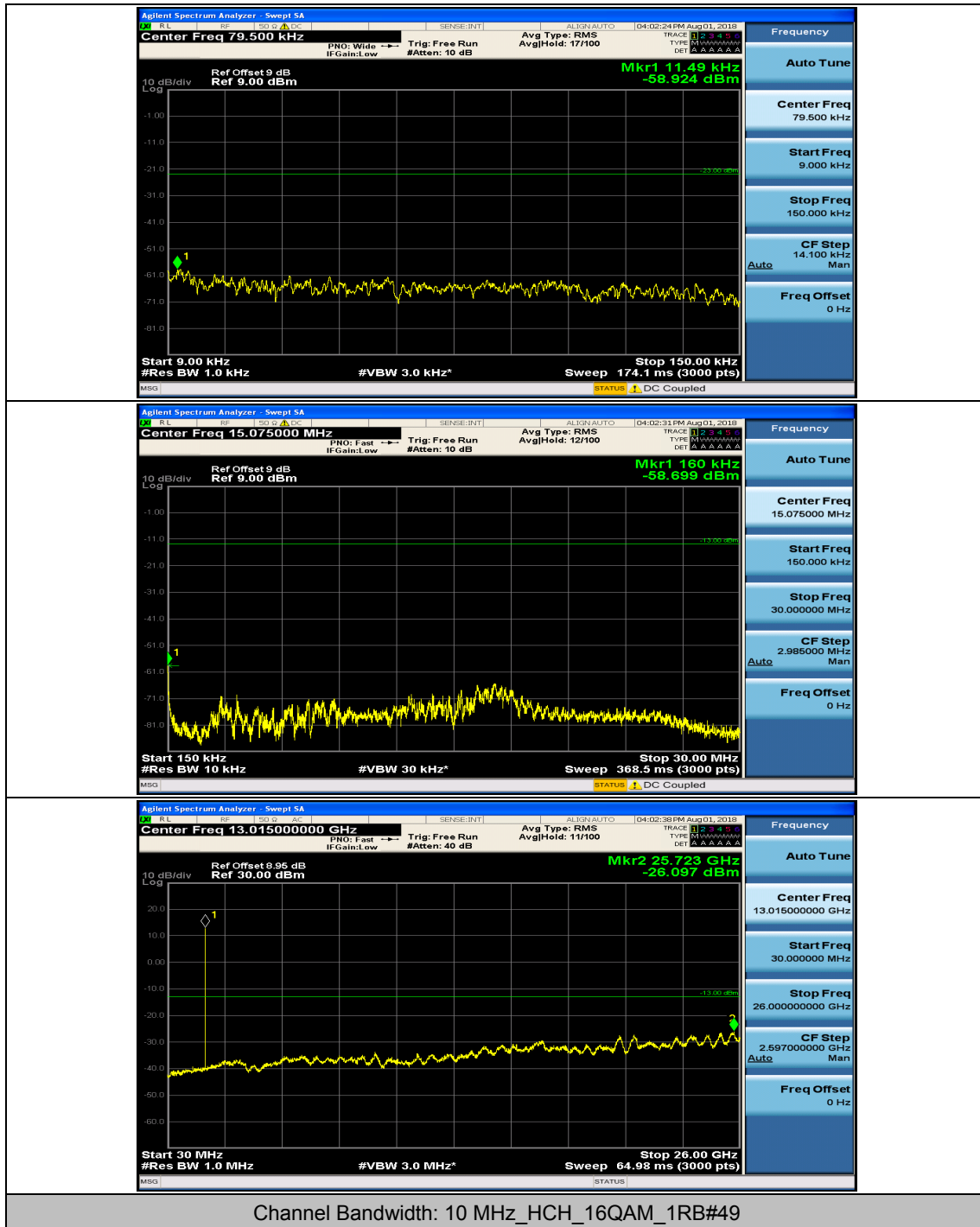


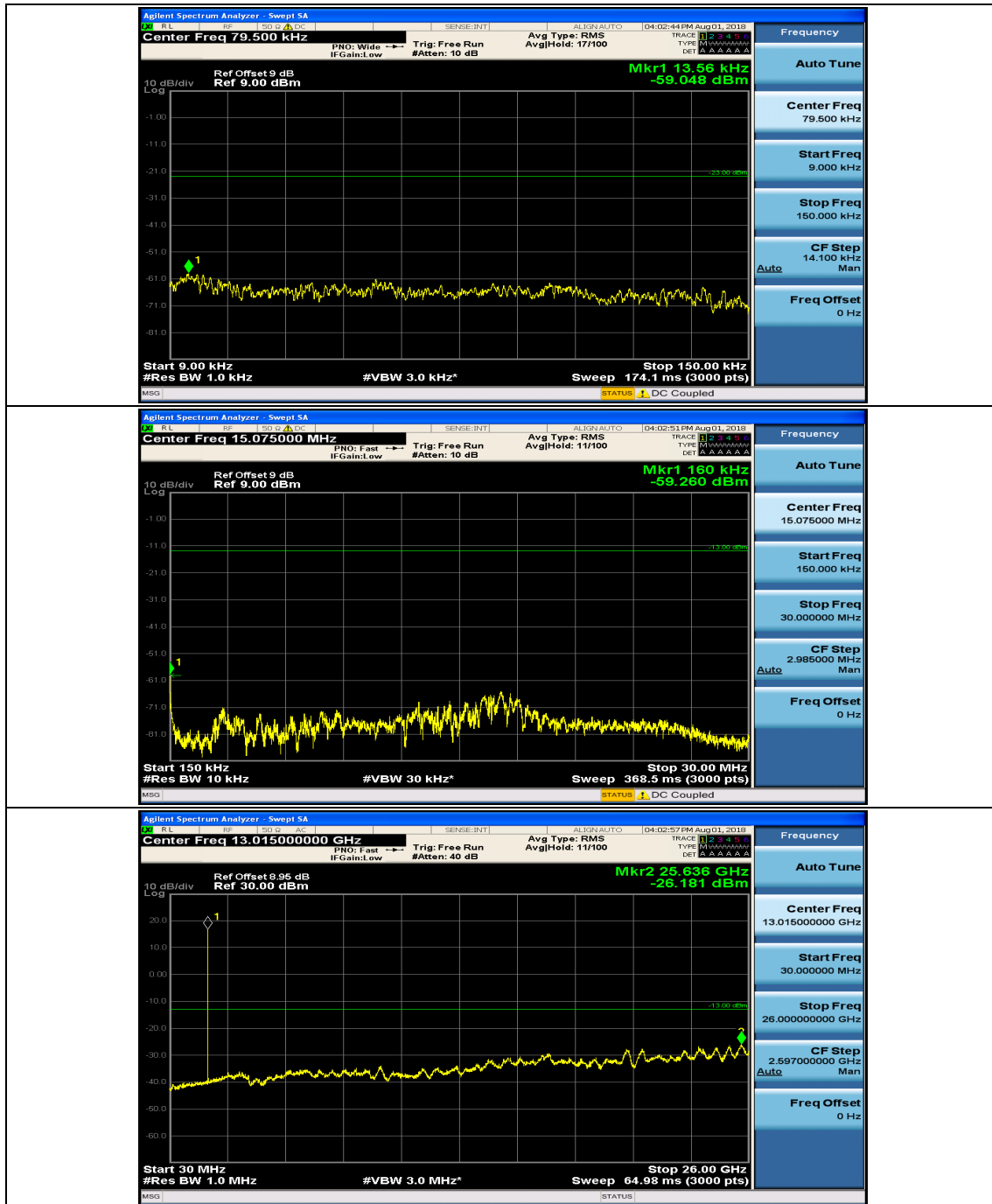


Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0

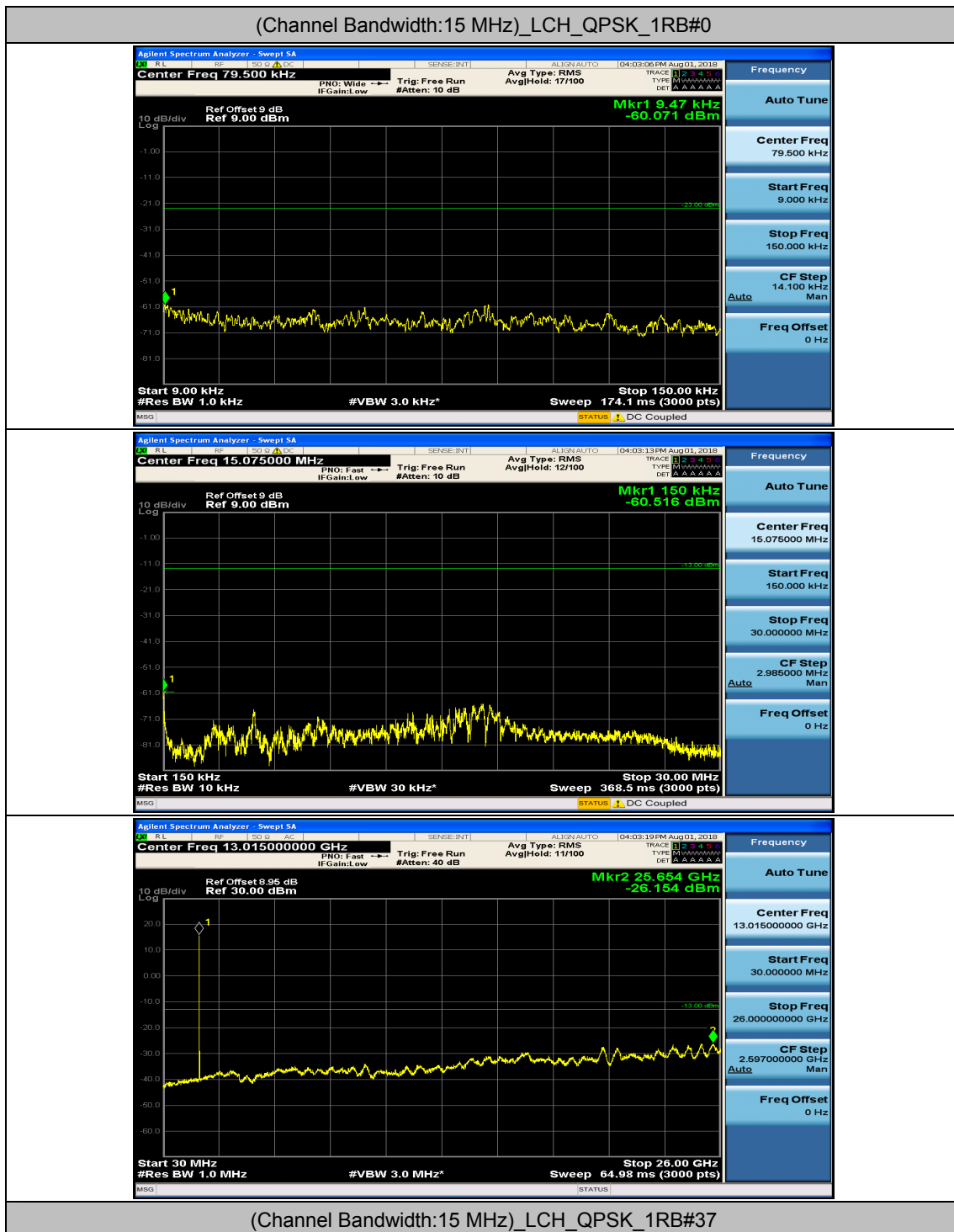


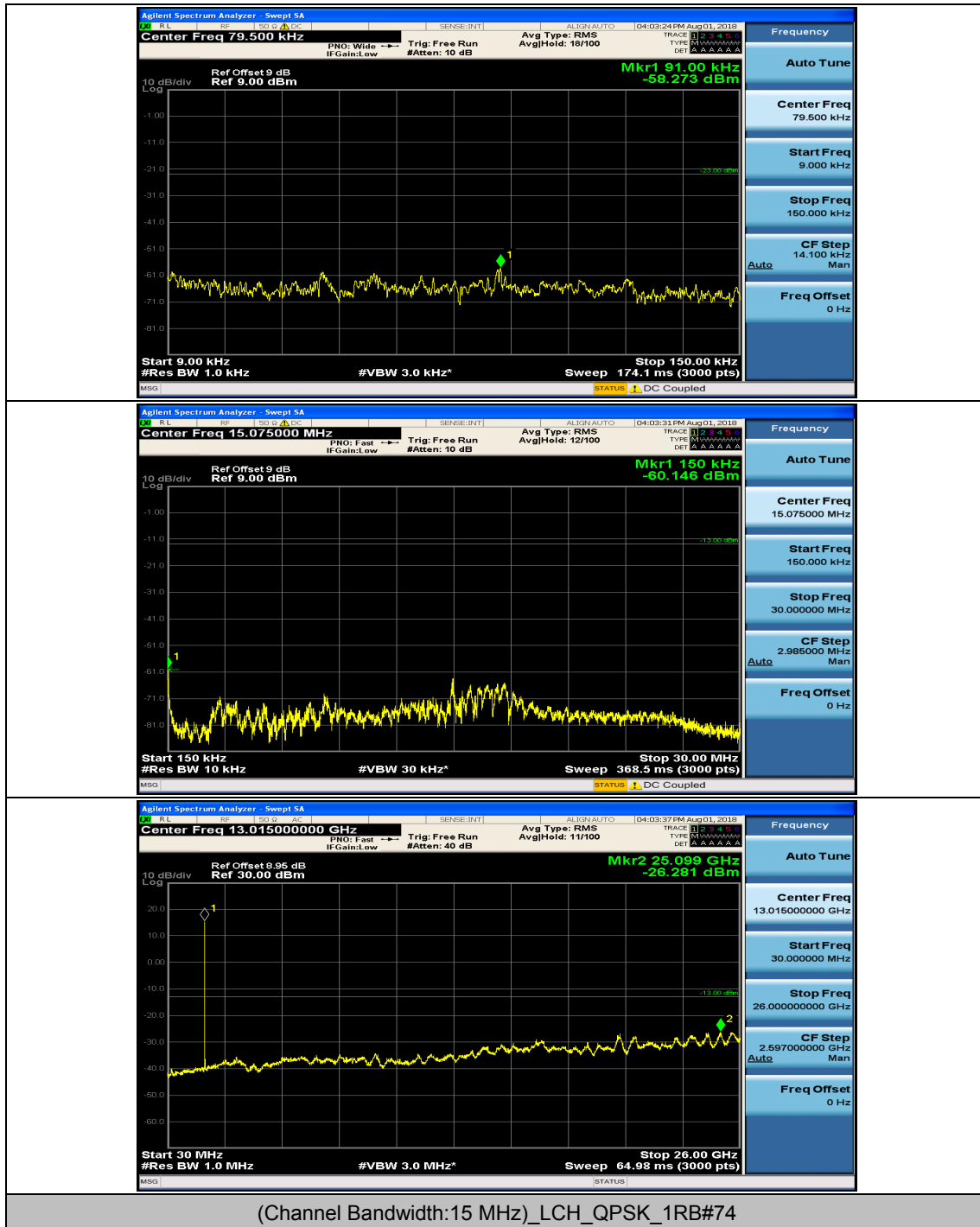
Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#24

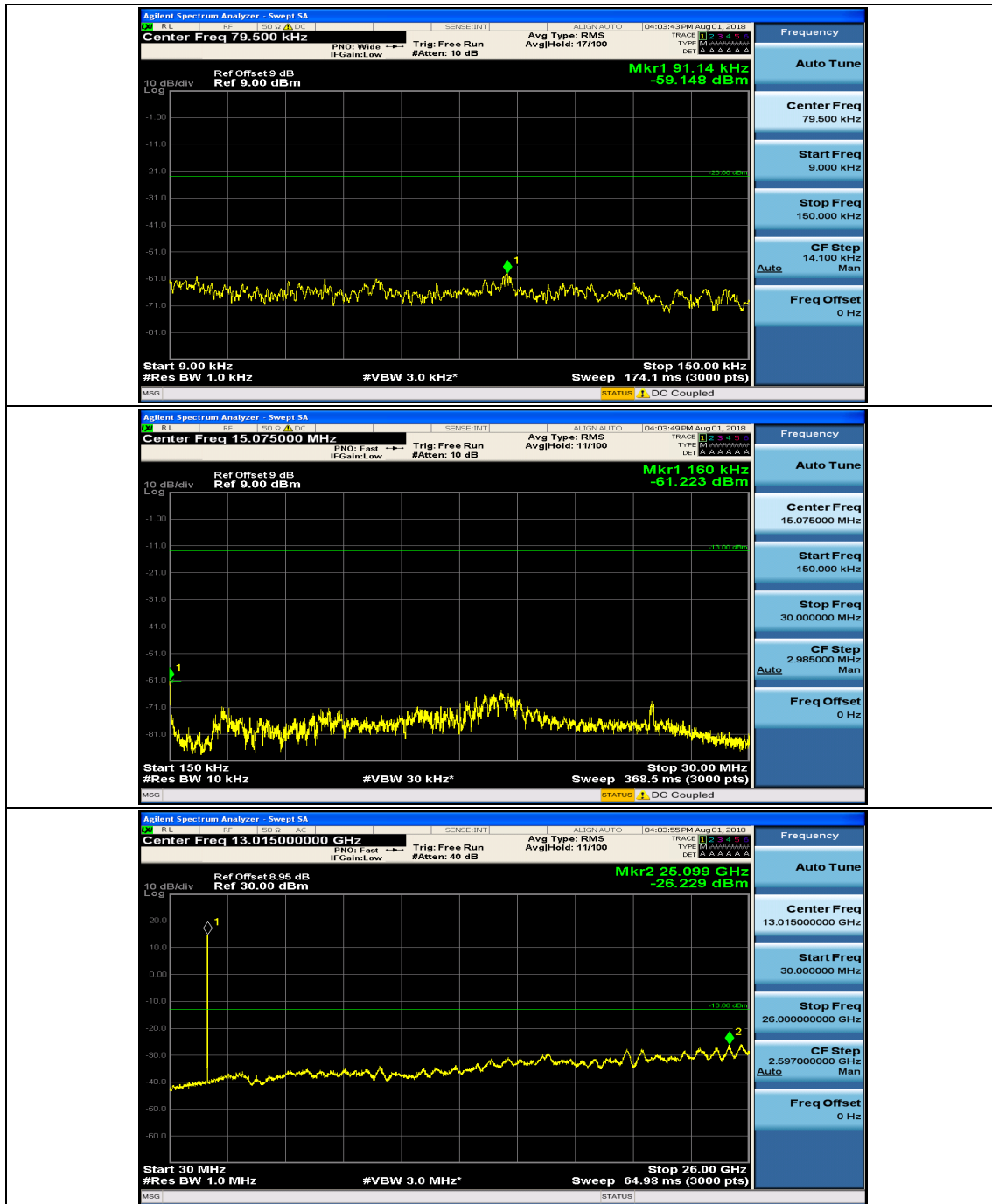




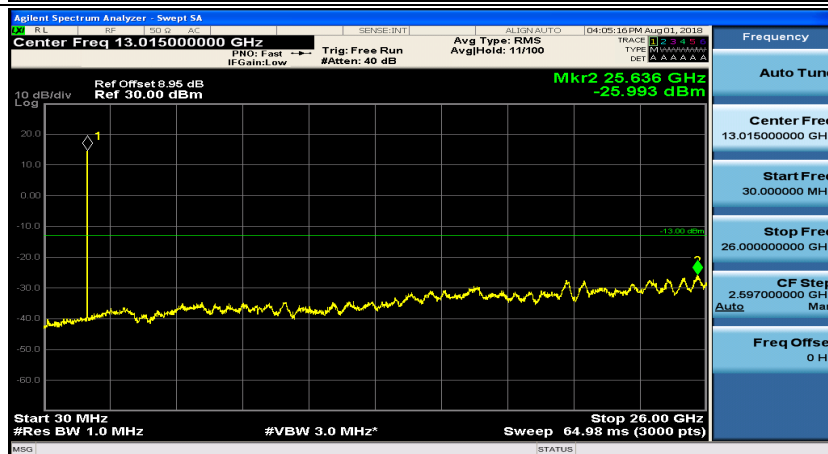
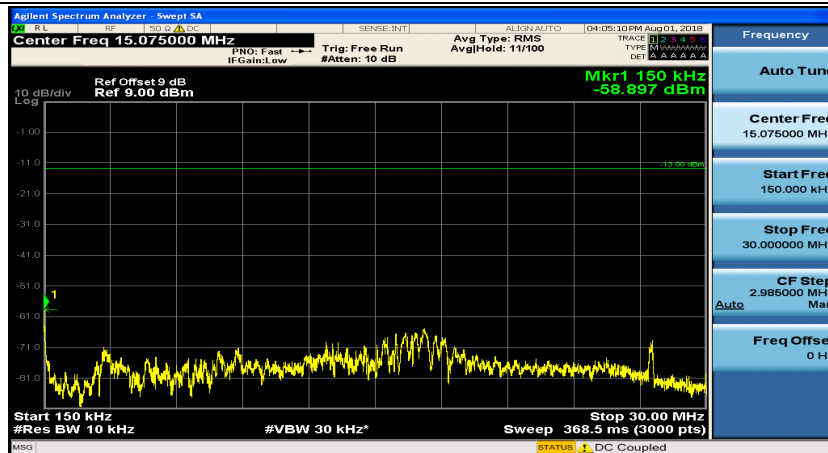
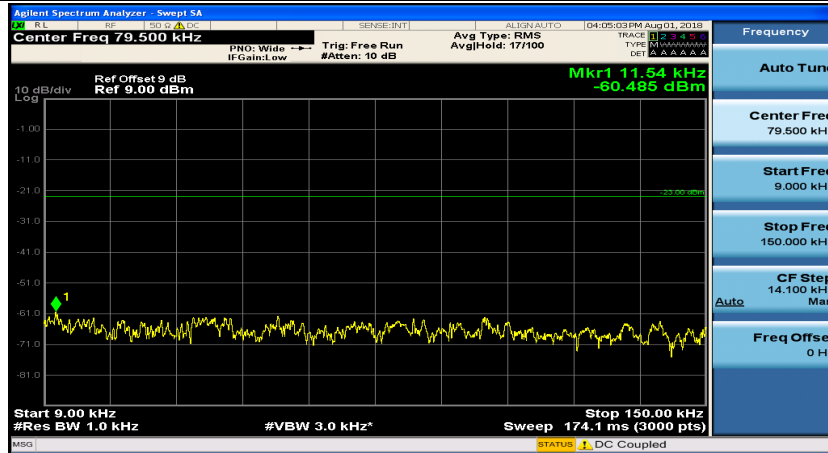
Channel Bandwidth: 15 MHz



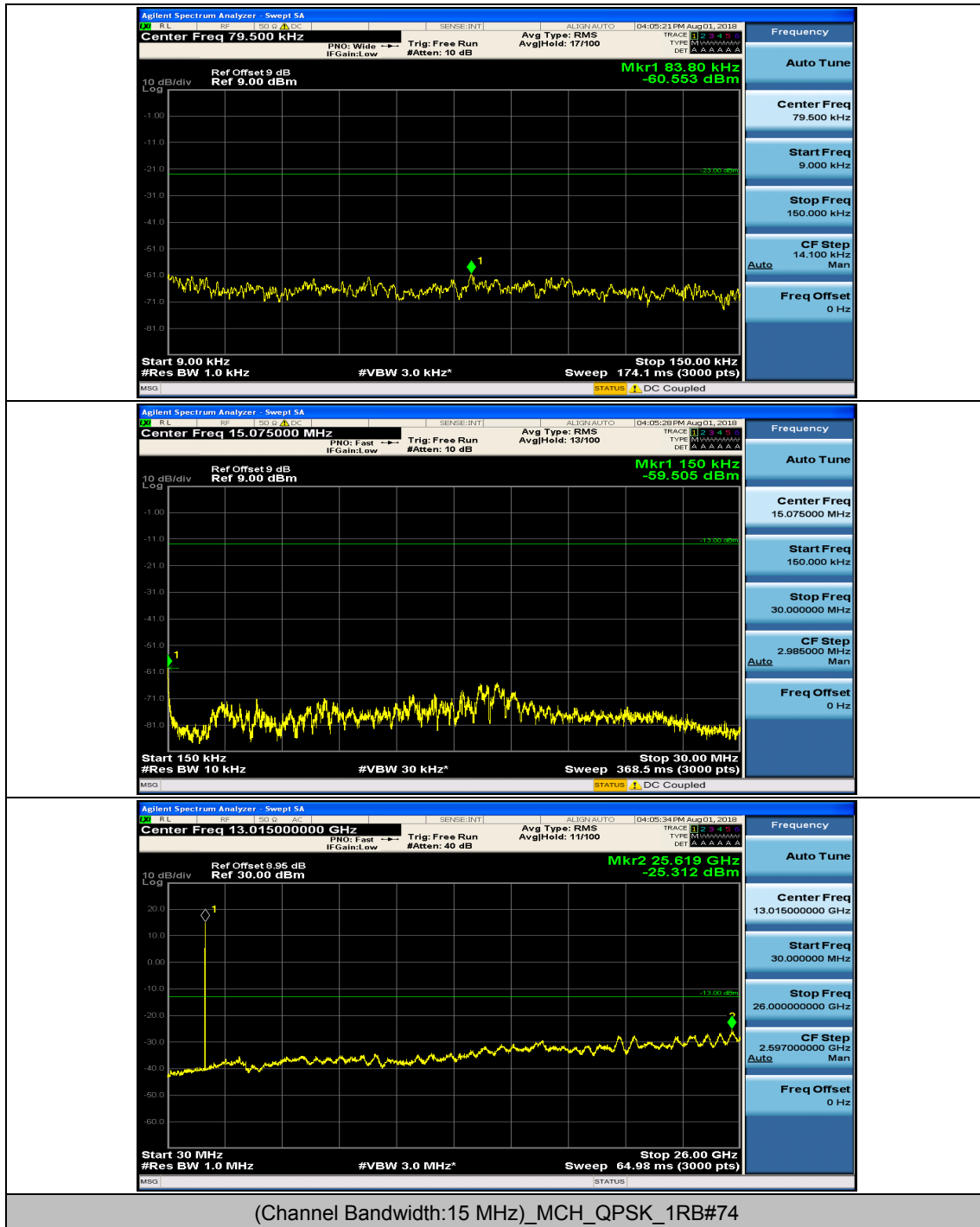


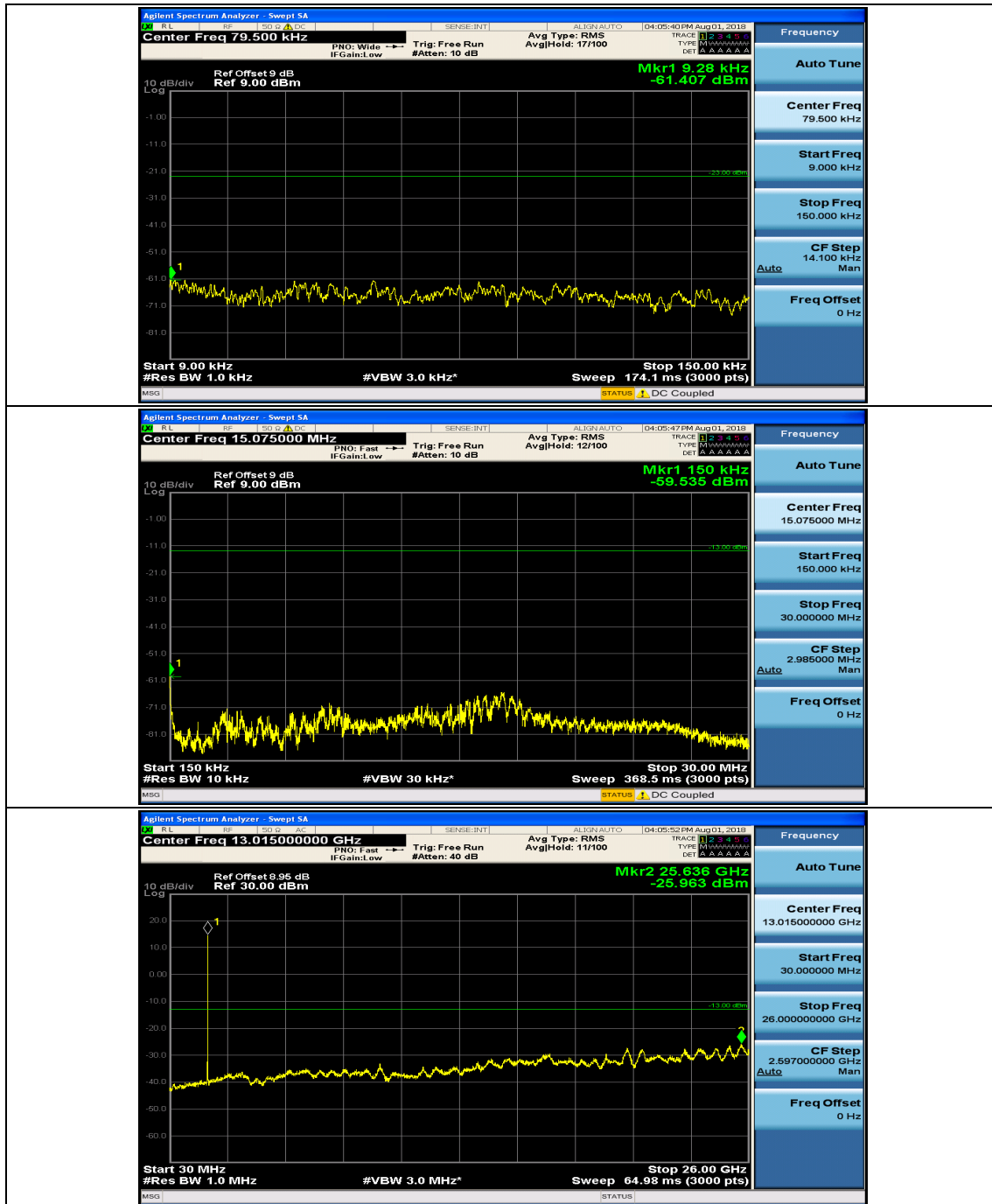


(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#0

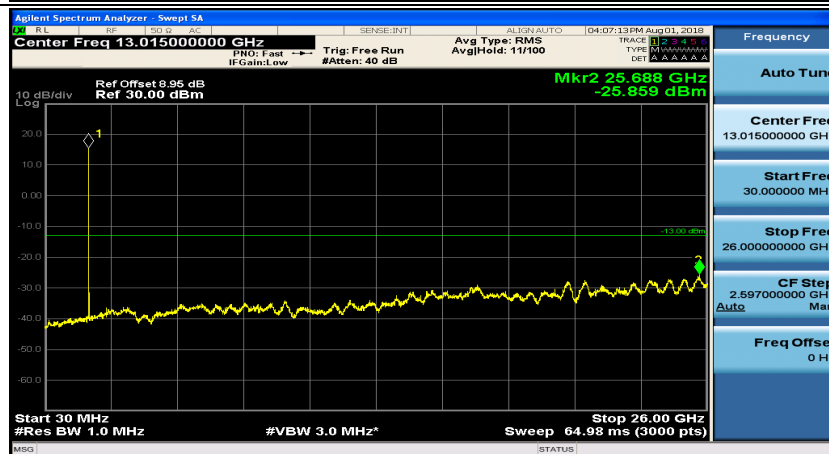
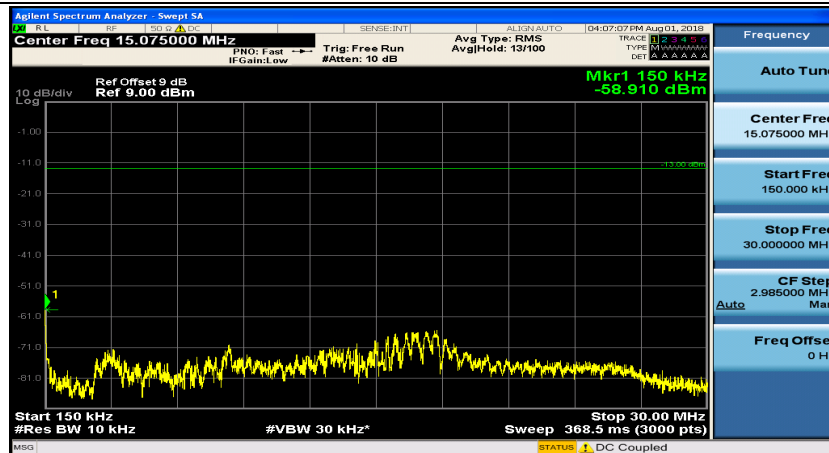
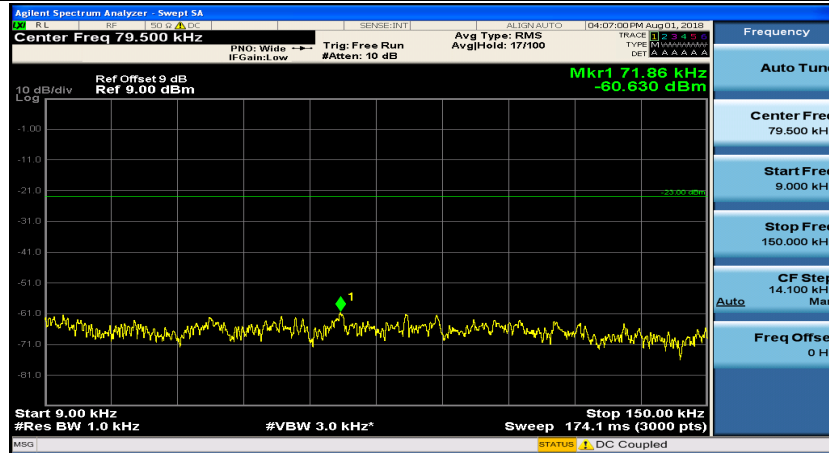


(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#37

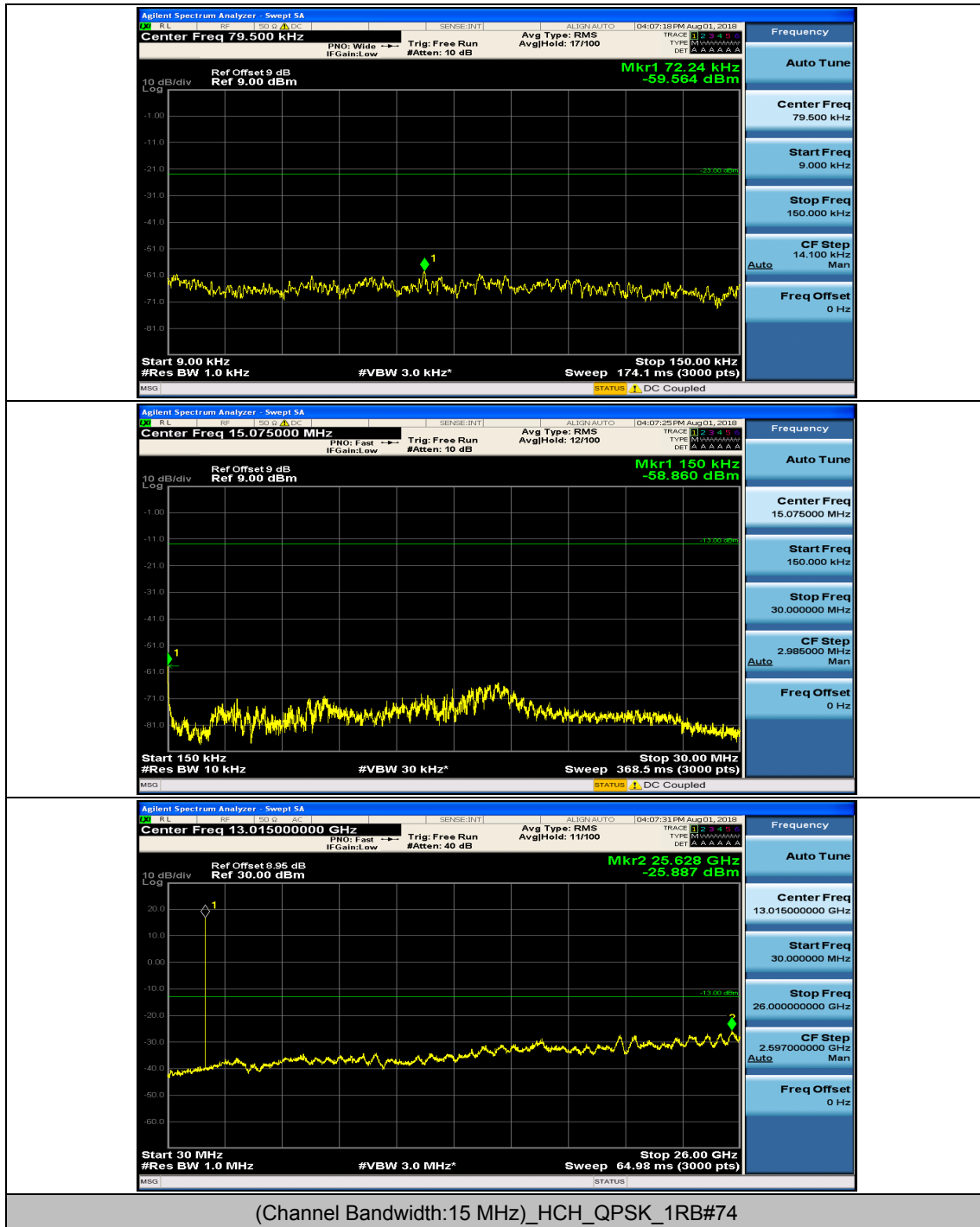


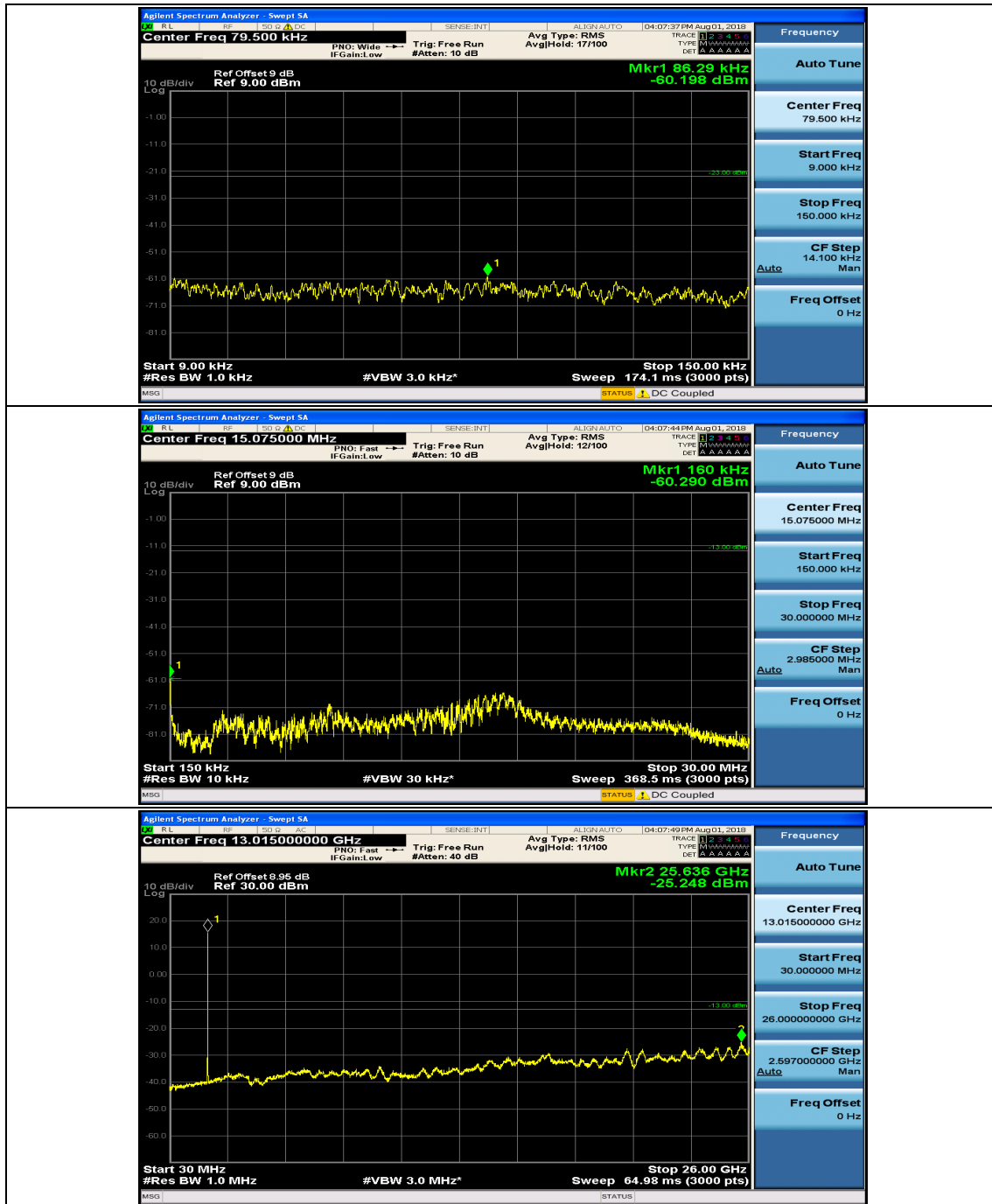


(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#0

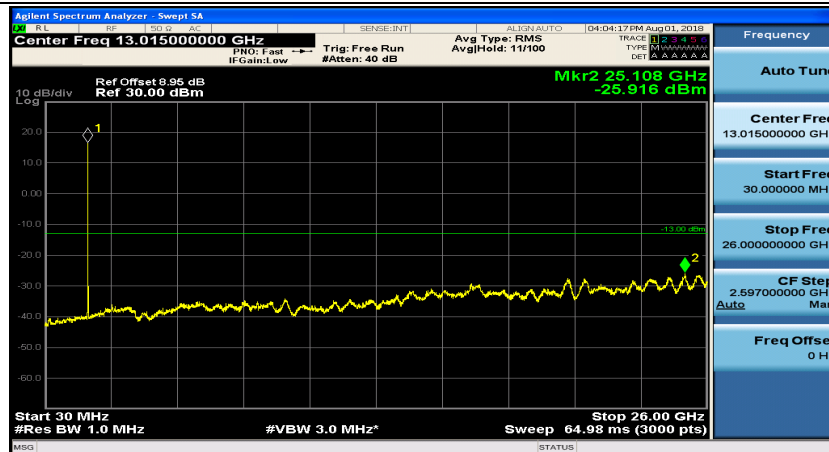
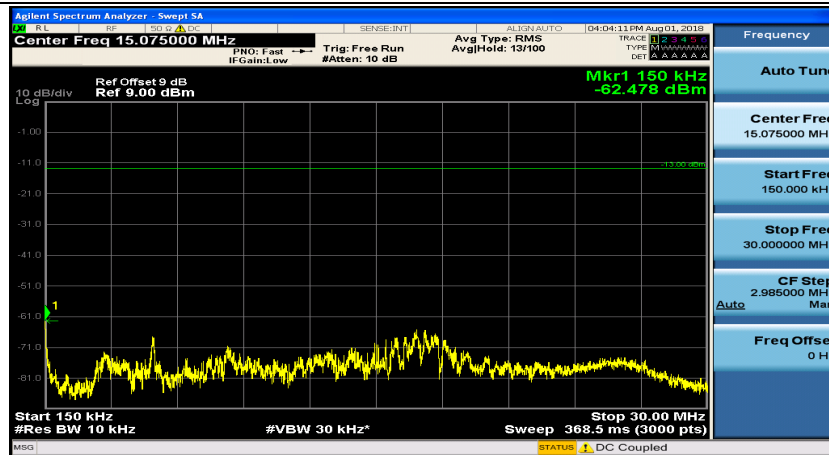
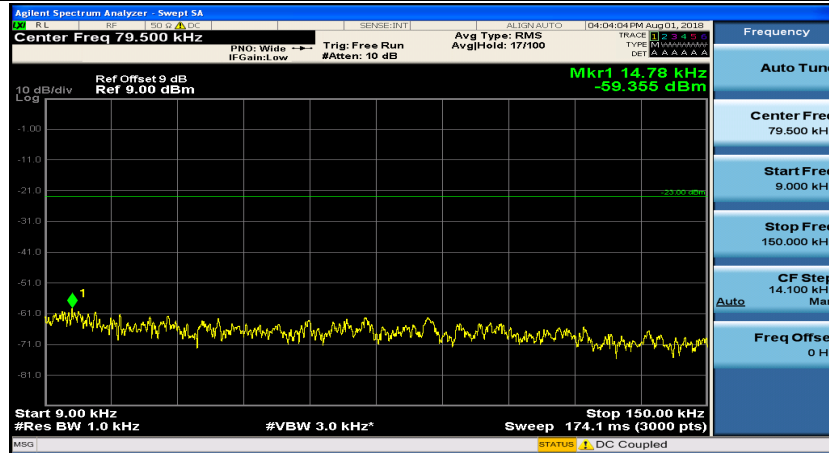


(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#37

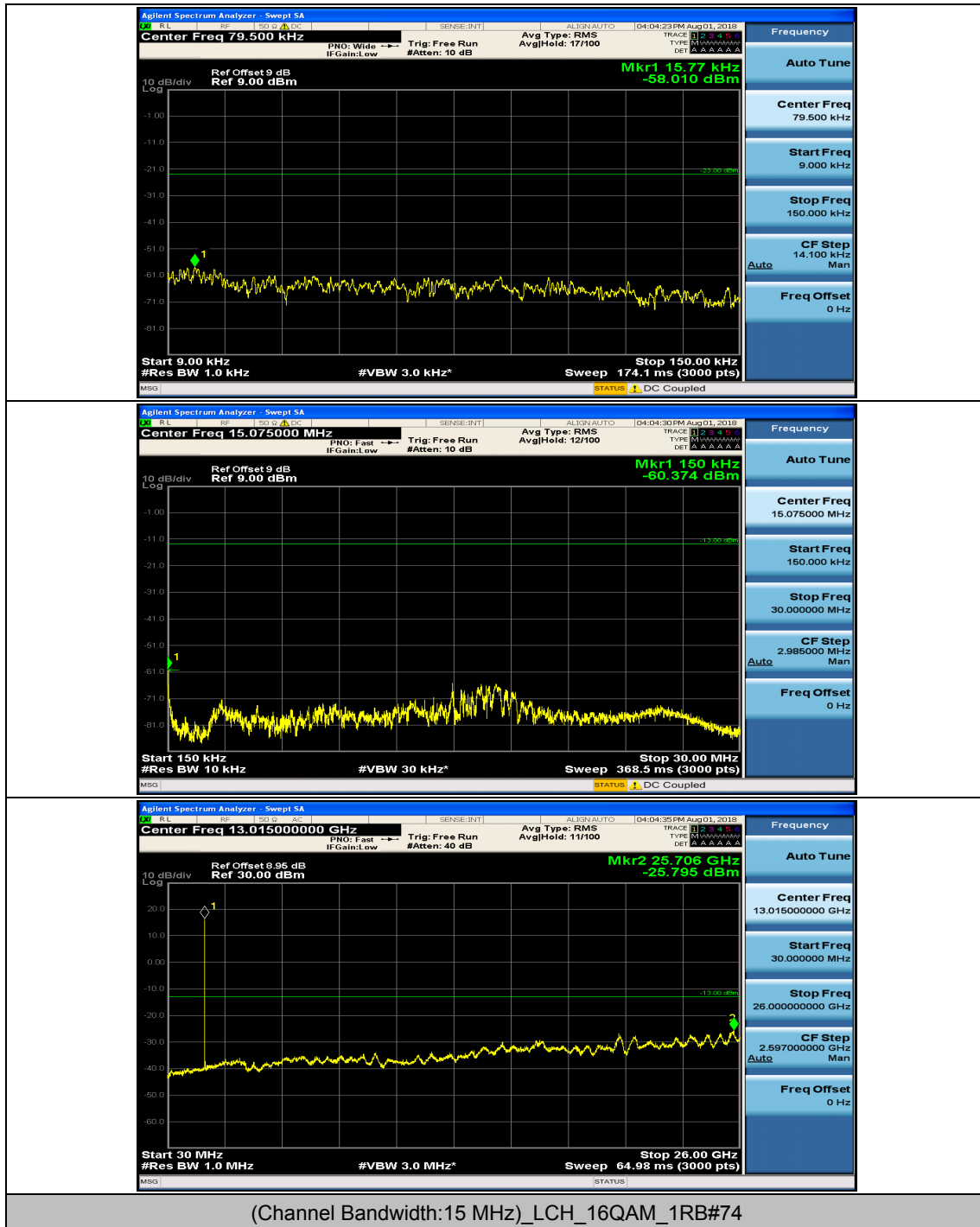


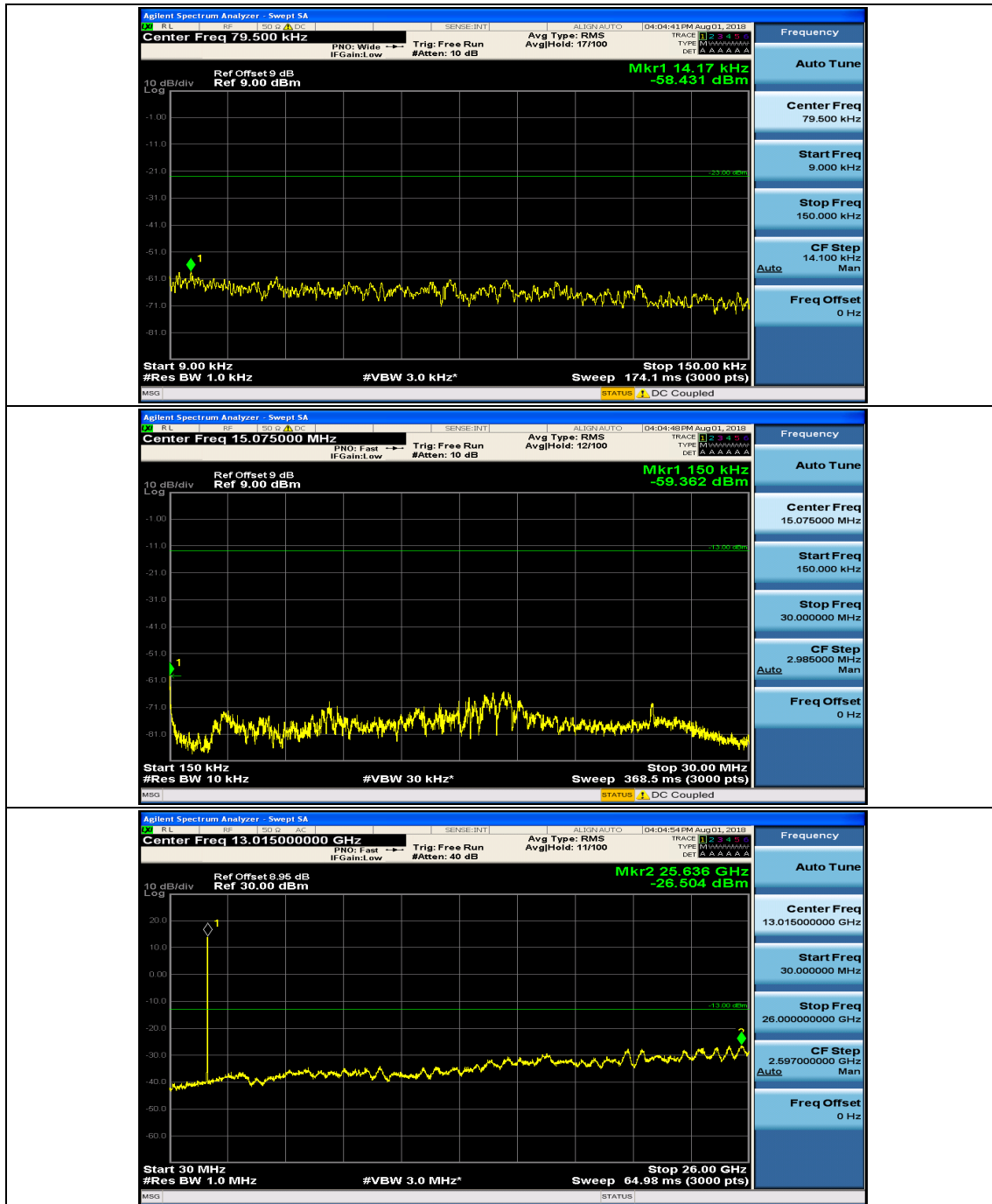


(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#0

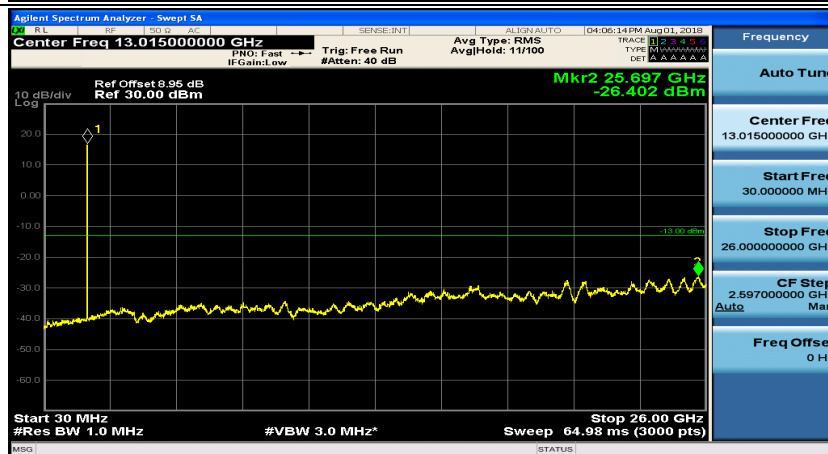
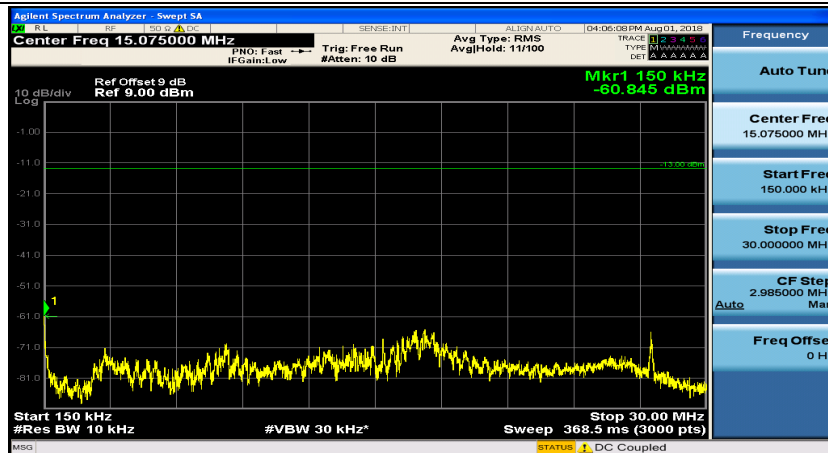
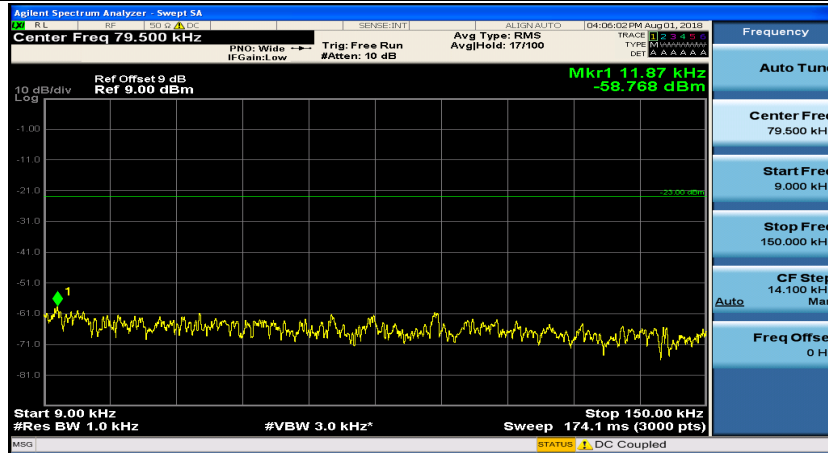


(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#37

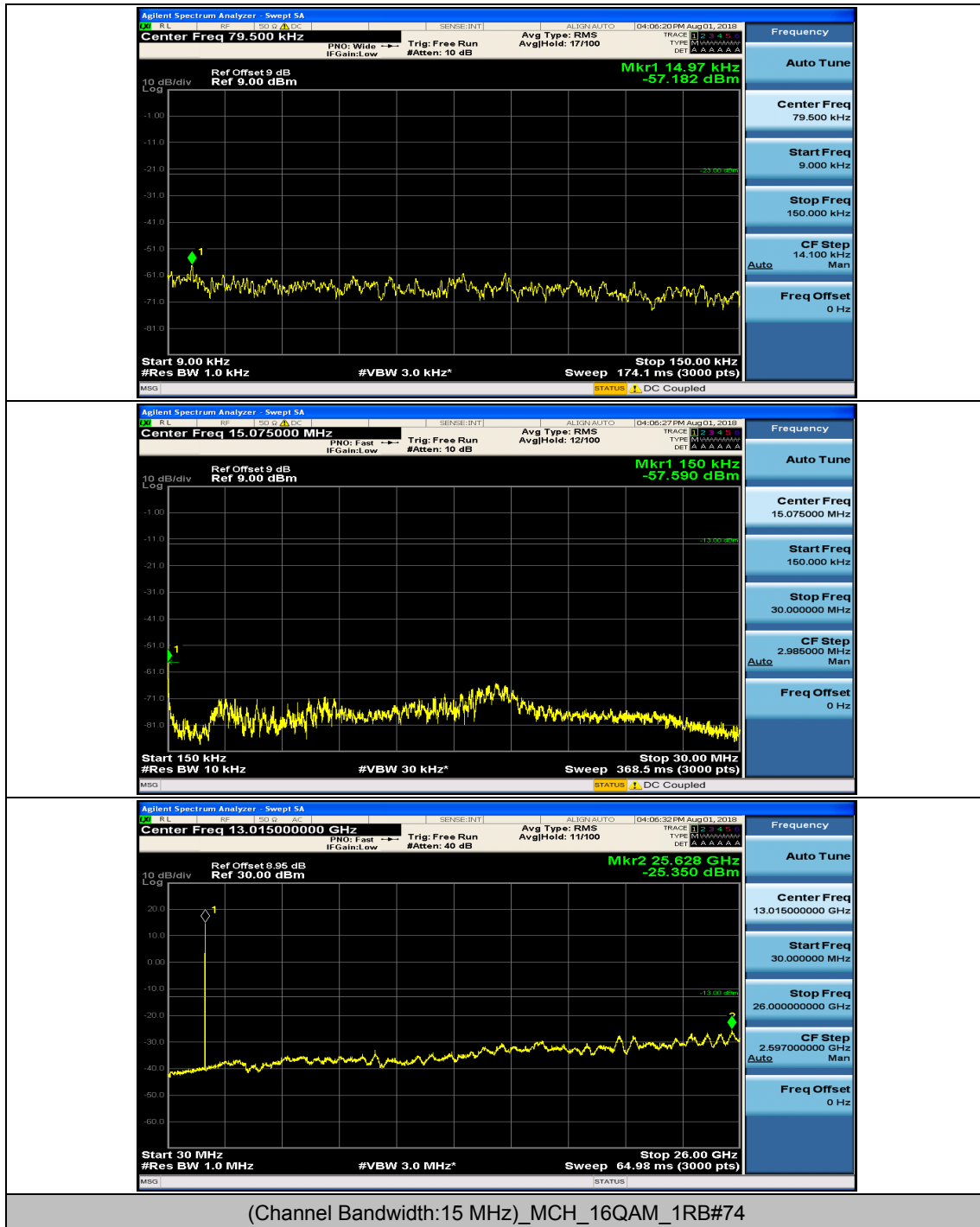


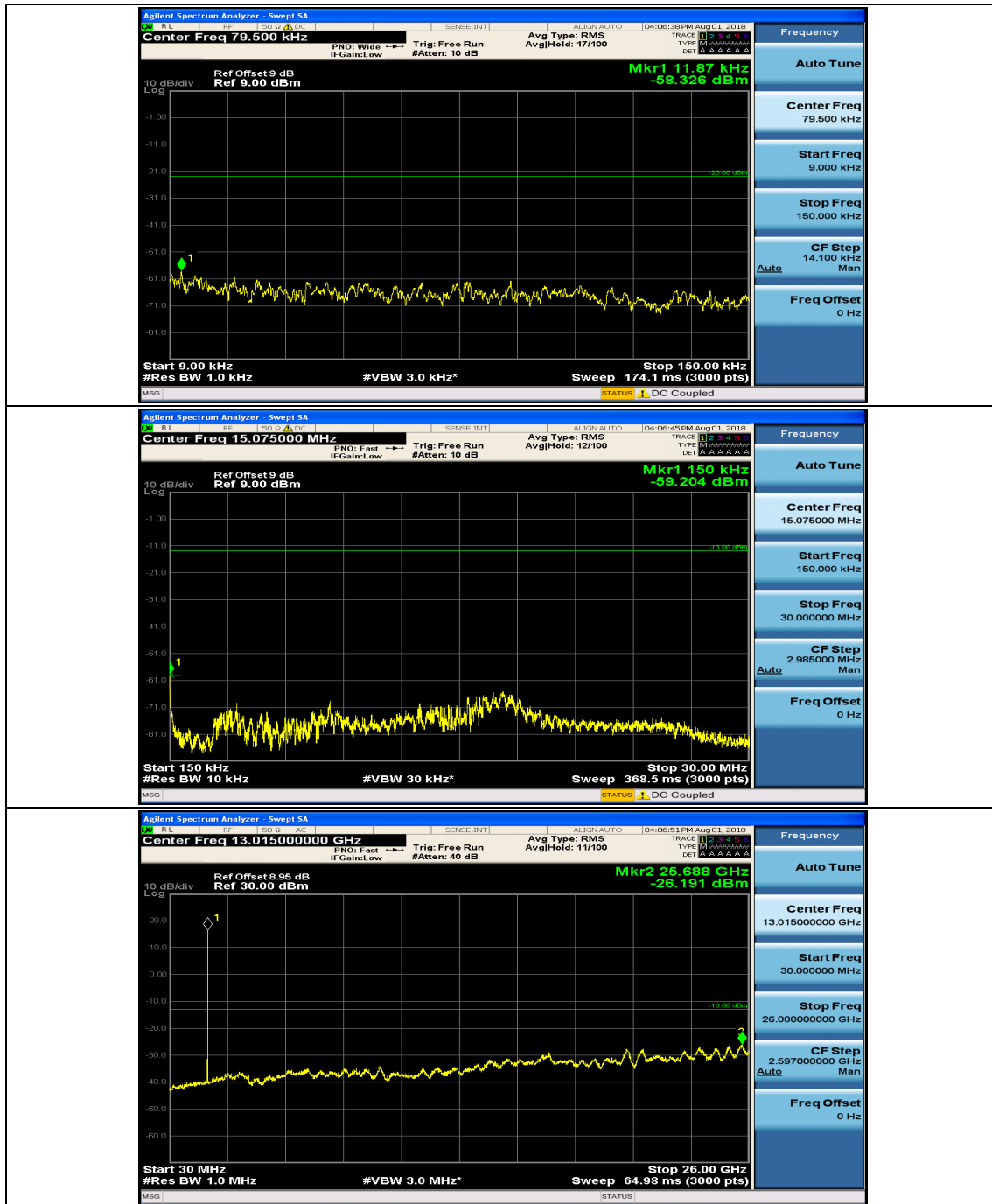


(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#0

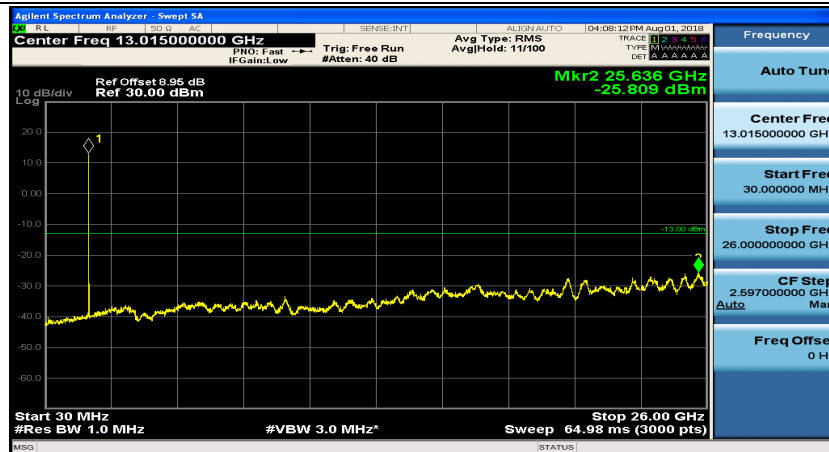
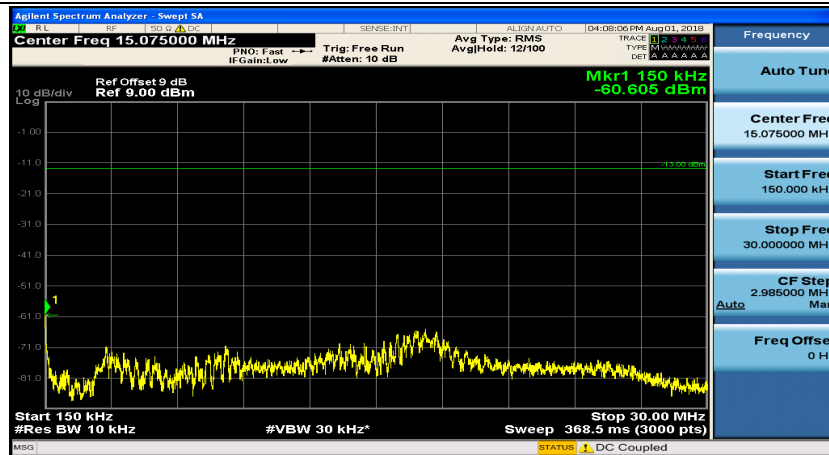
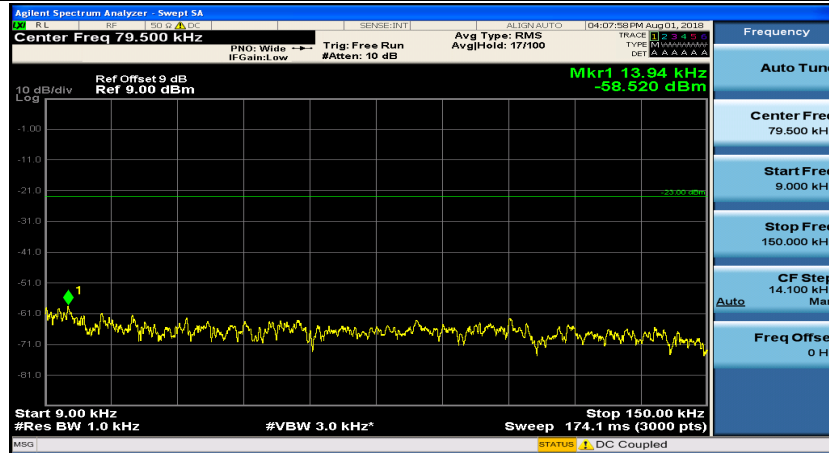


(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#37

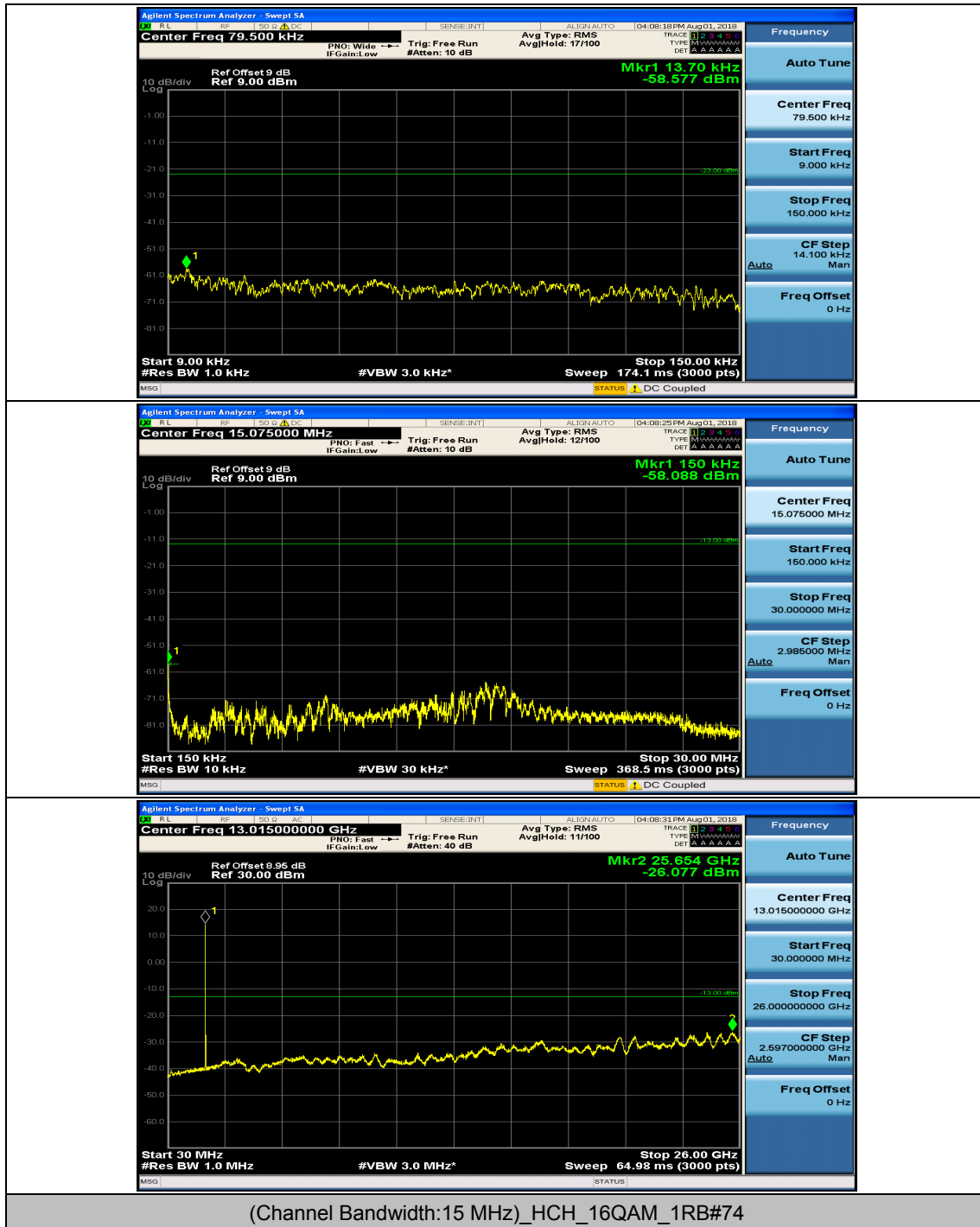


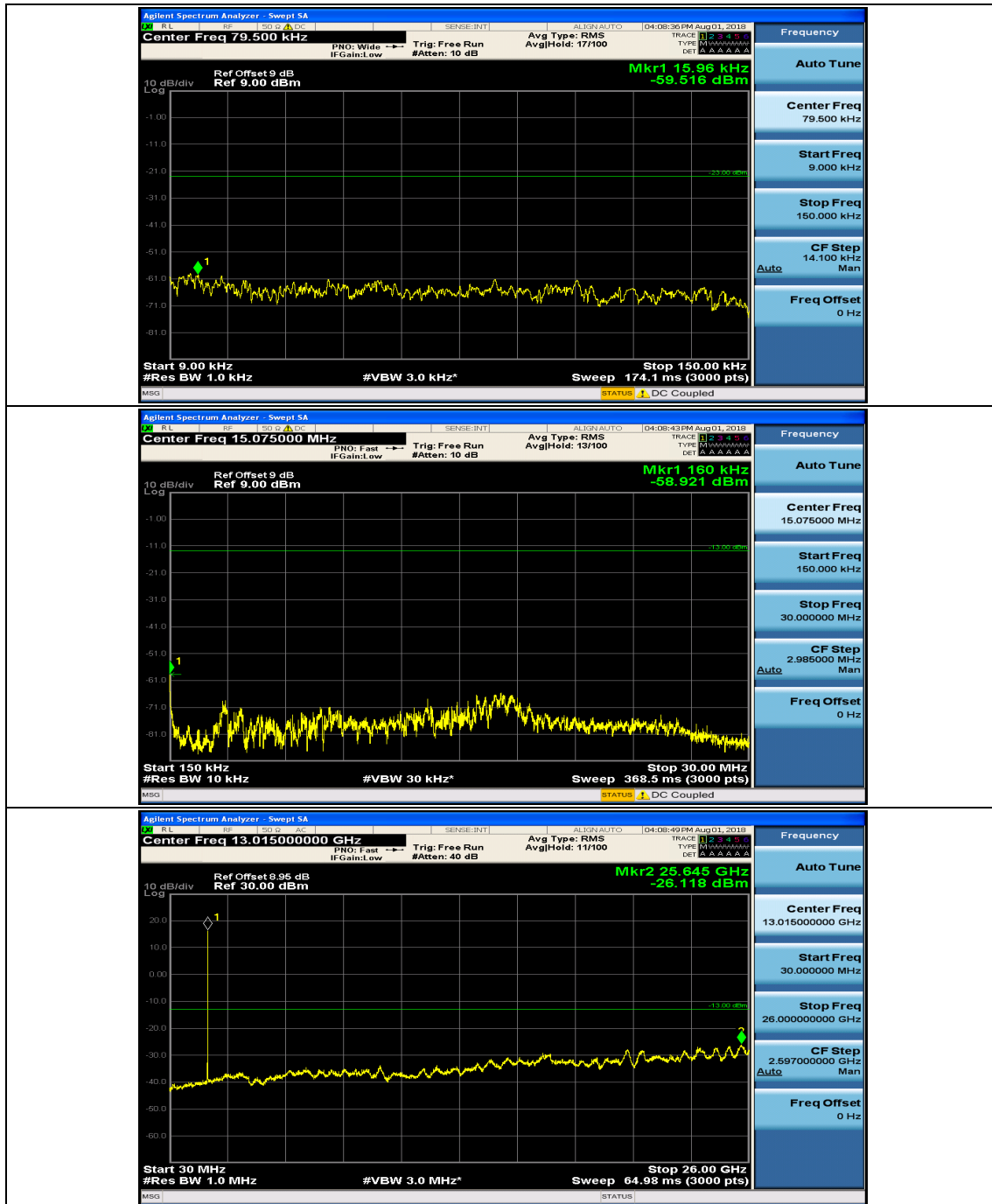


(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#0

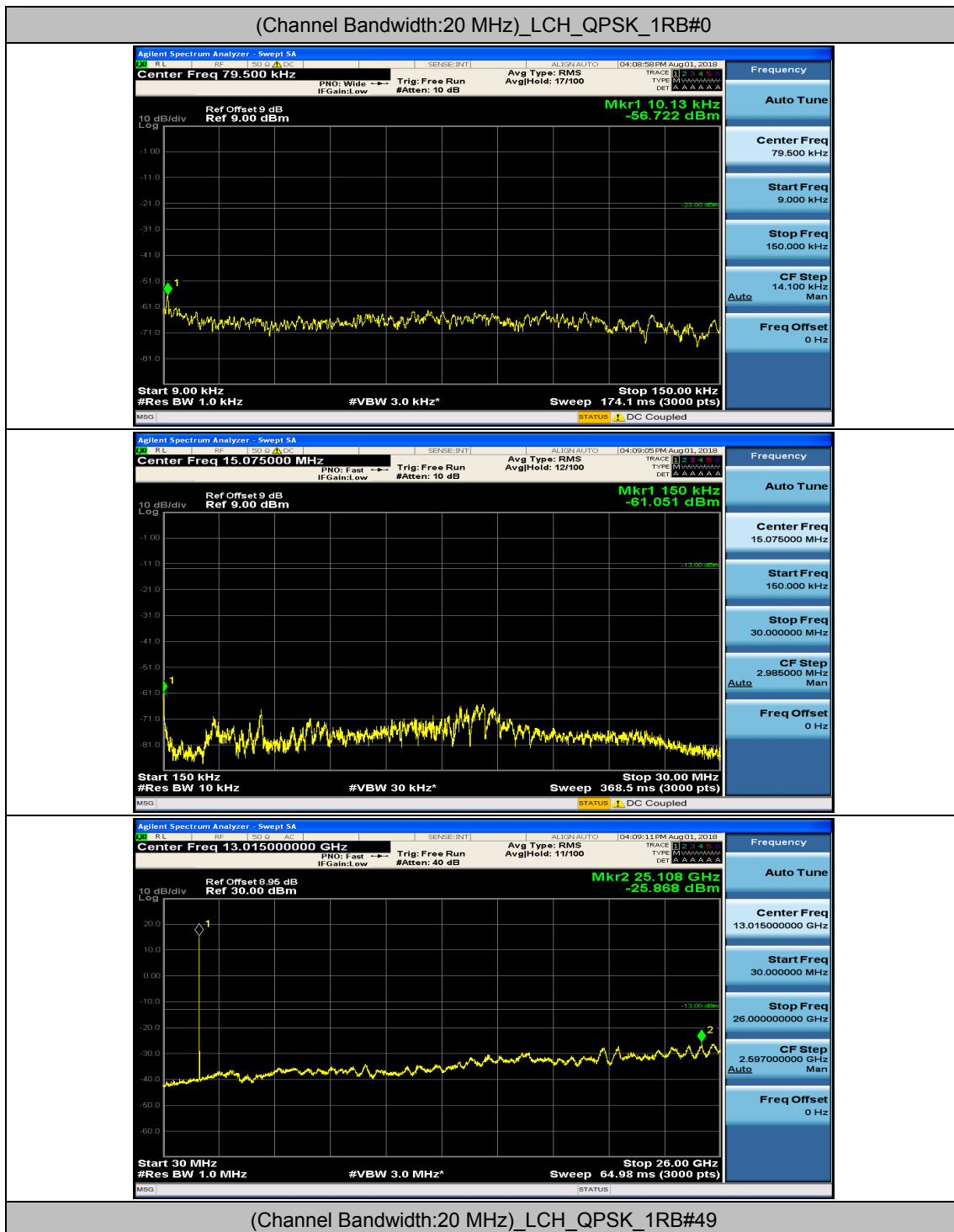


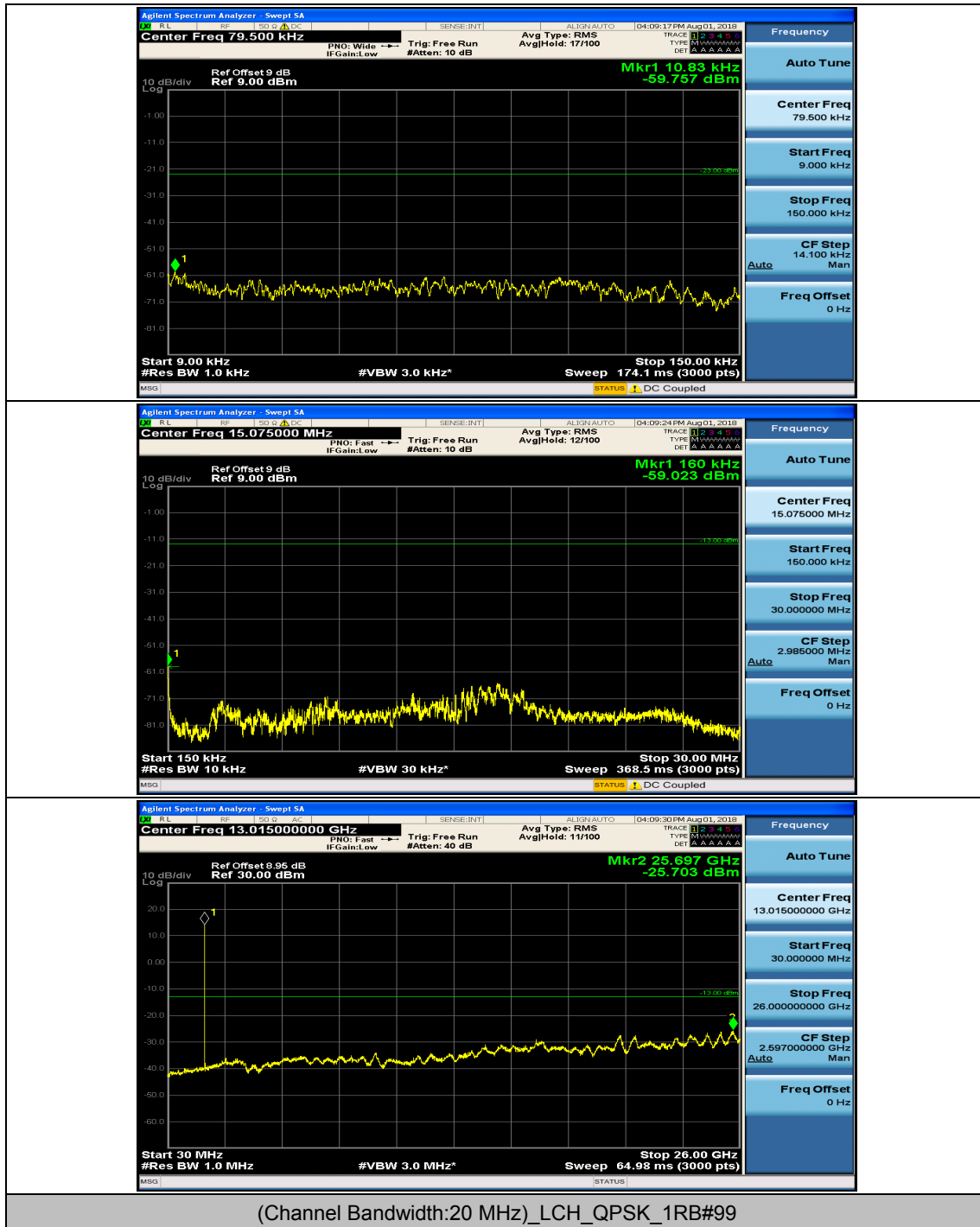
(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#37

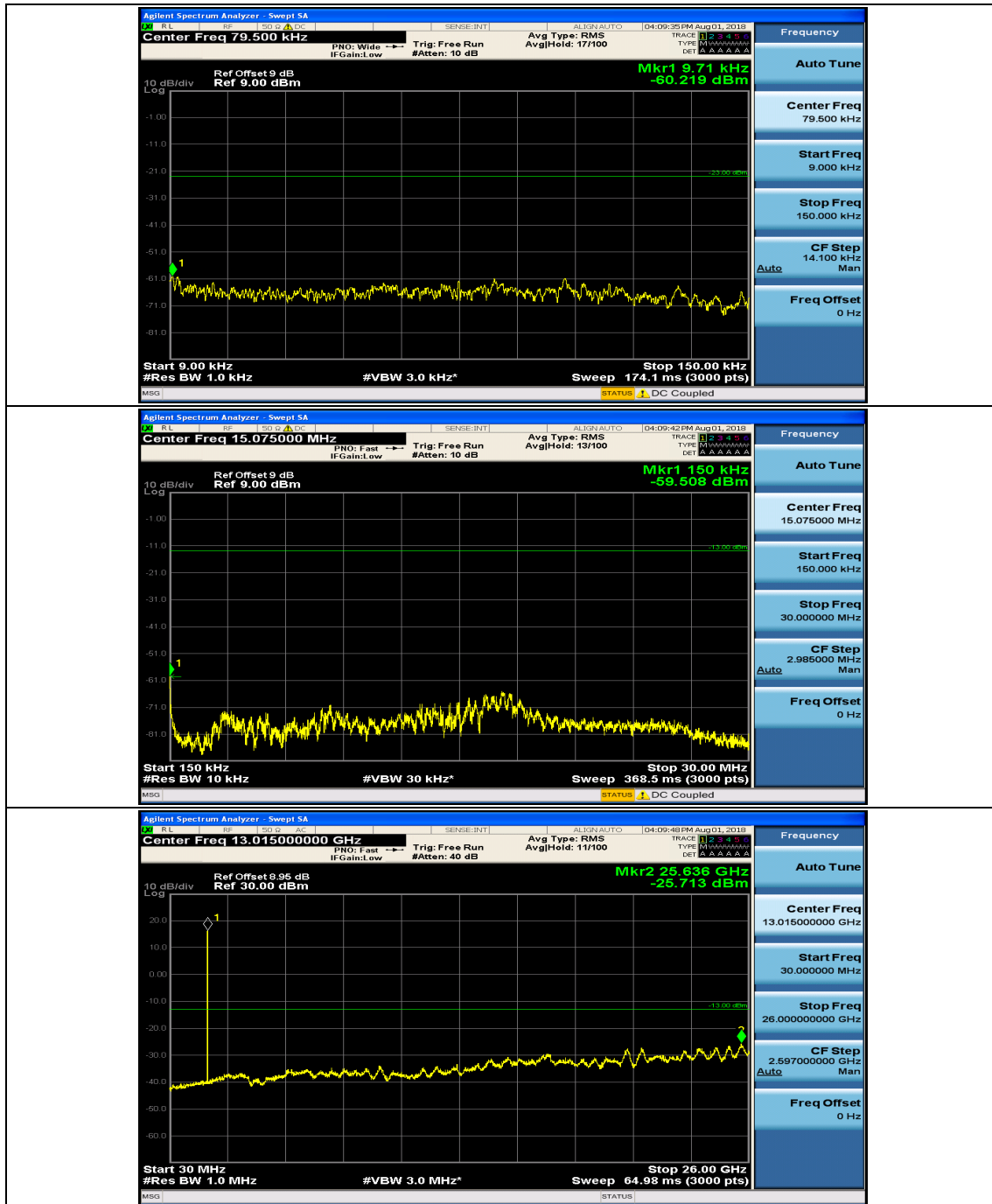




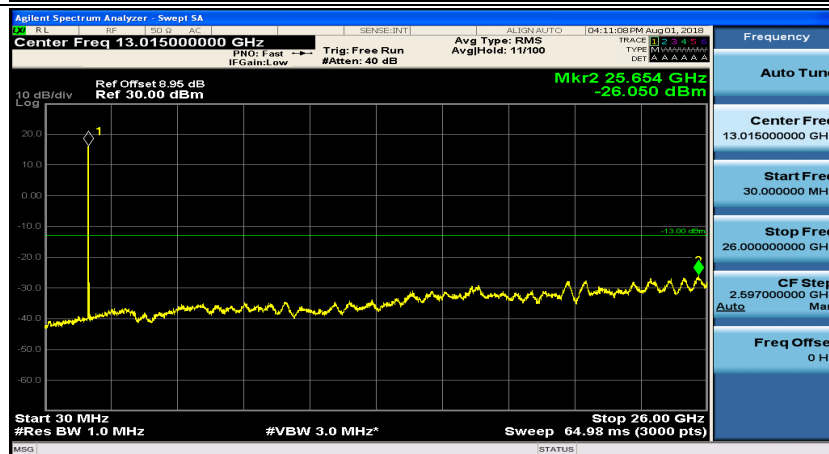
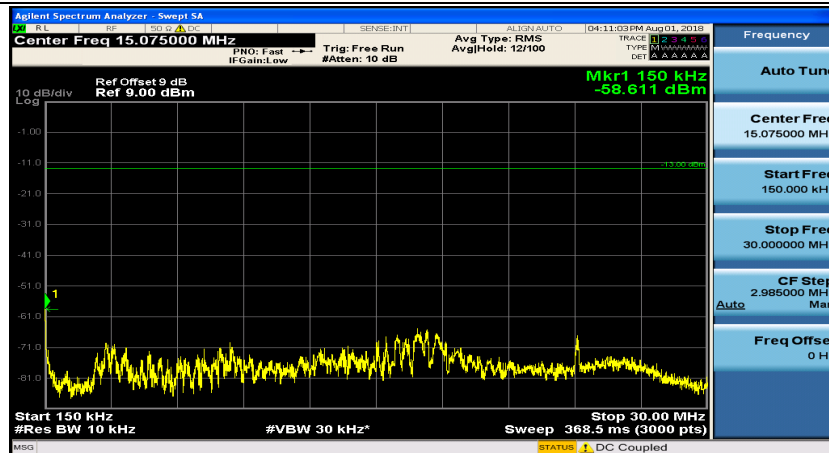
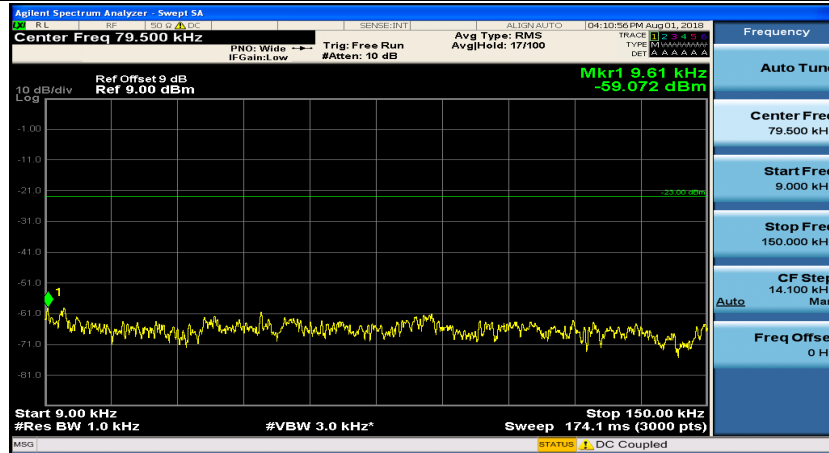
Channel Bandwidth: 20 MHz



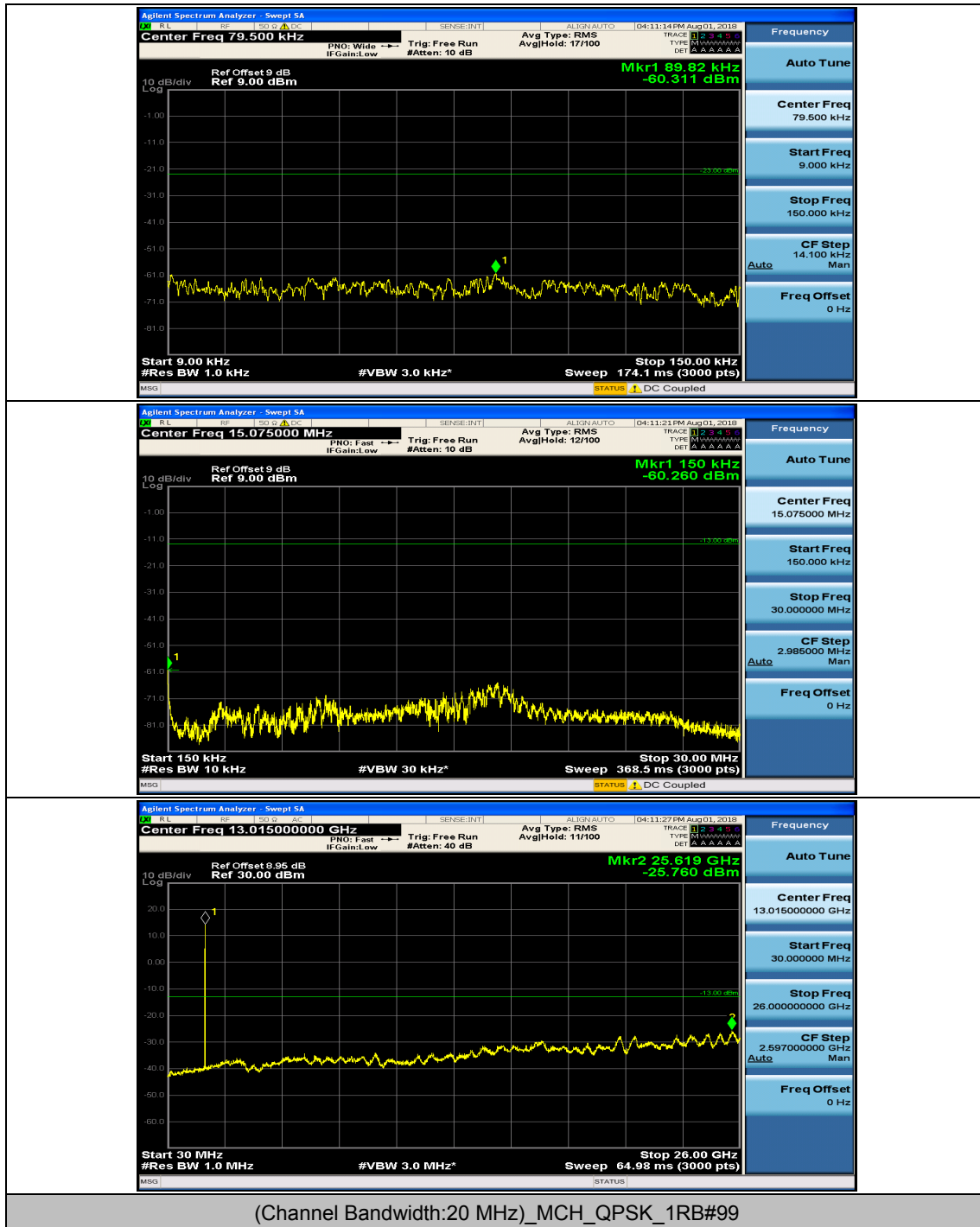


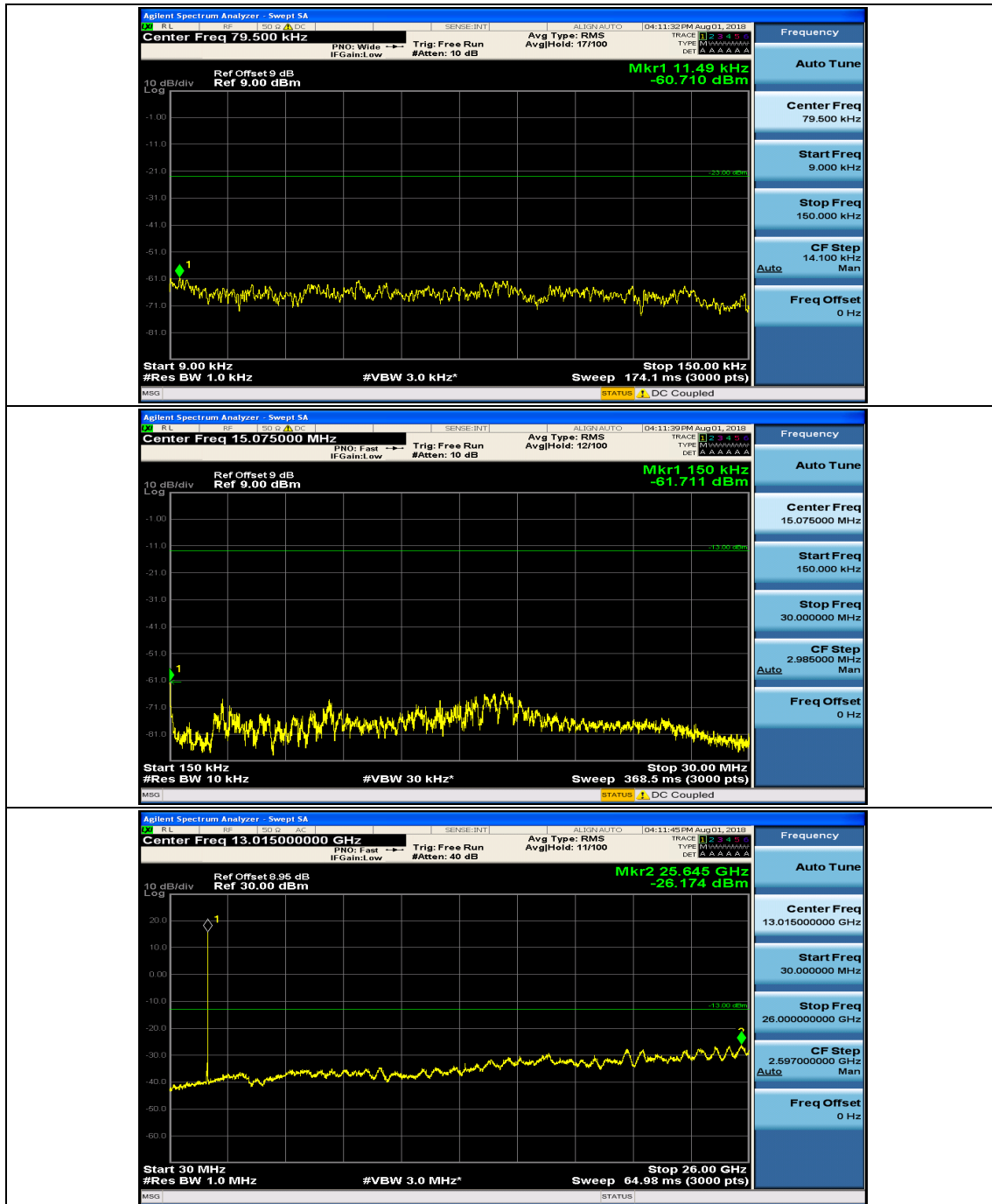


(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#0

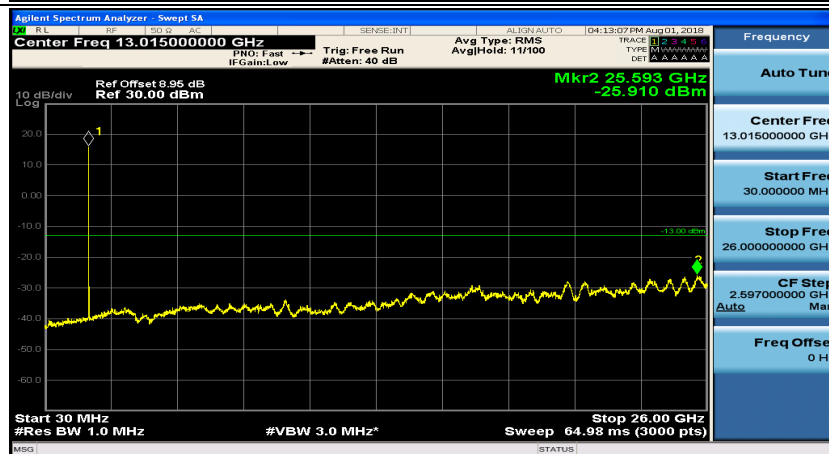
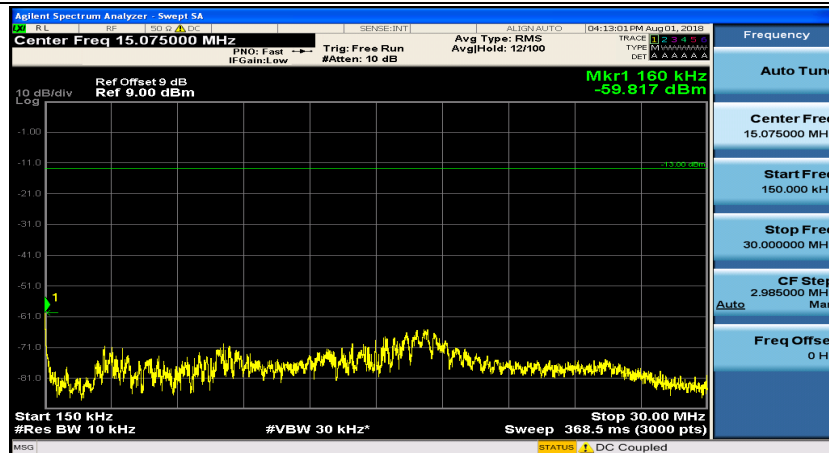
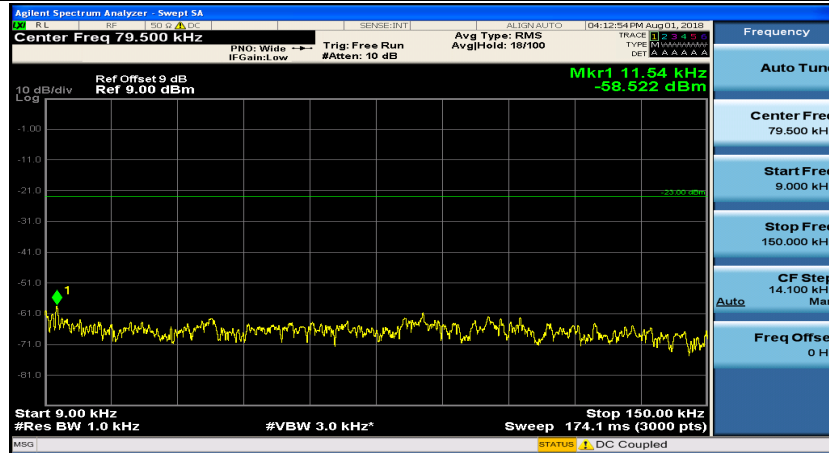


(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#49

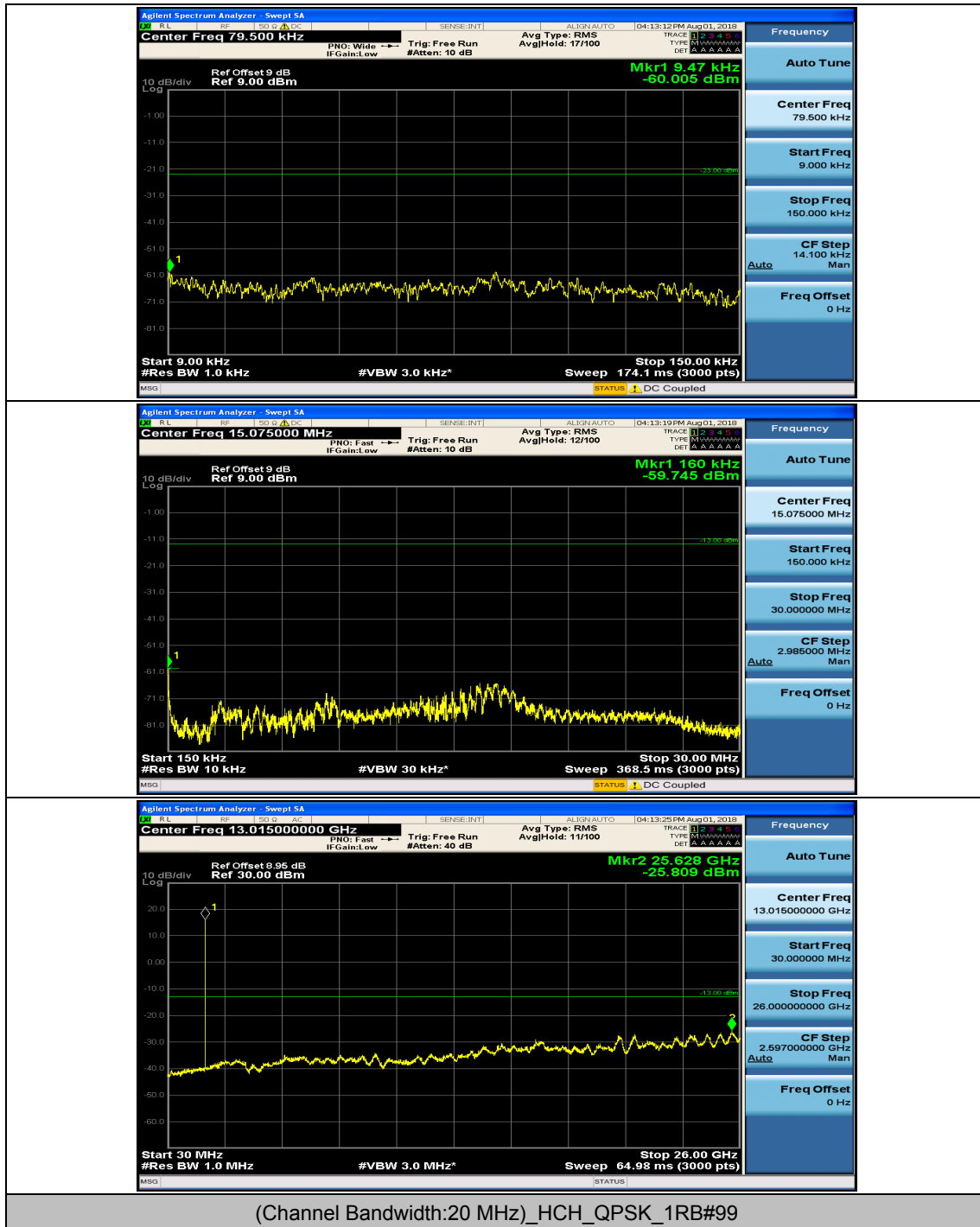


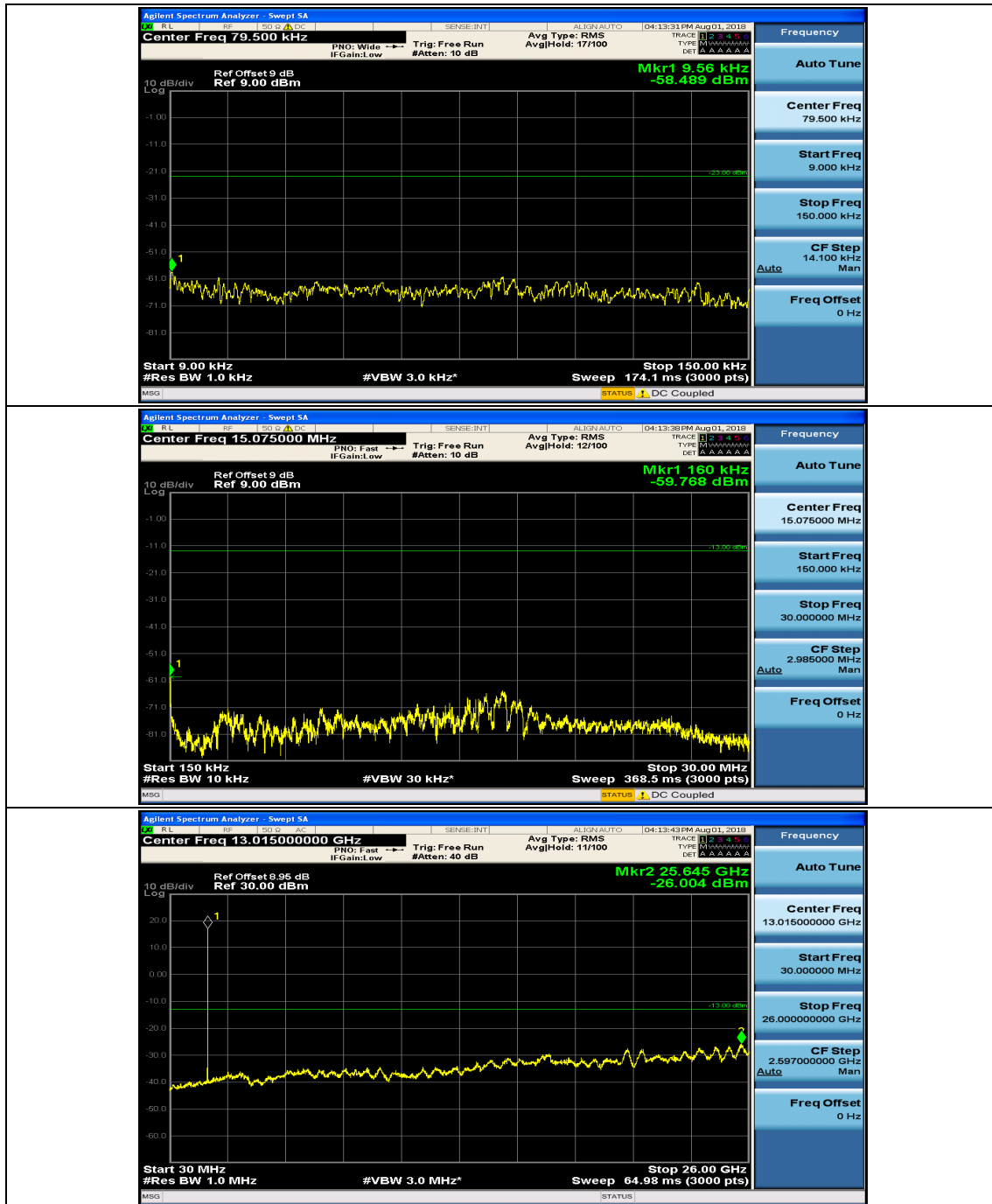


(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#0

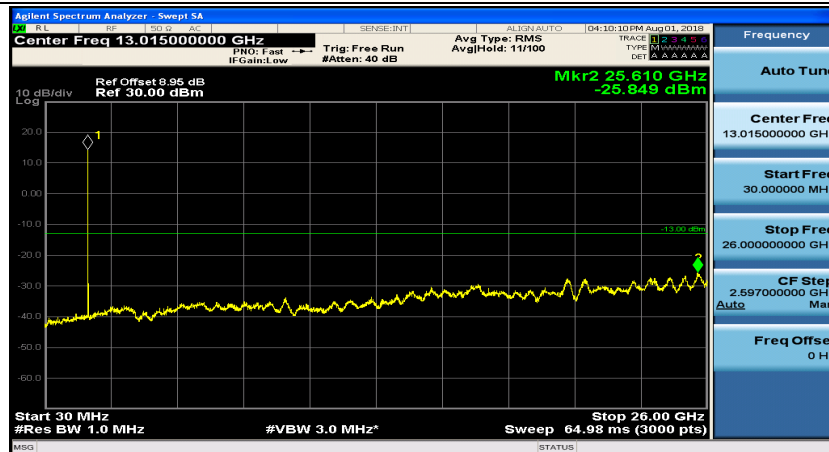
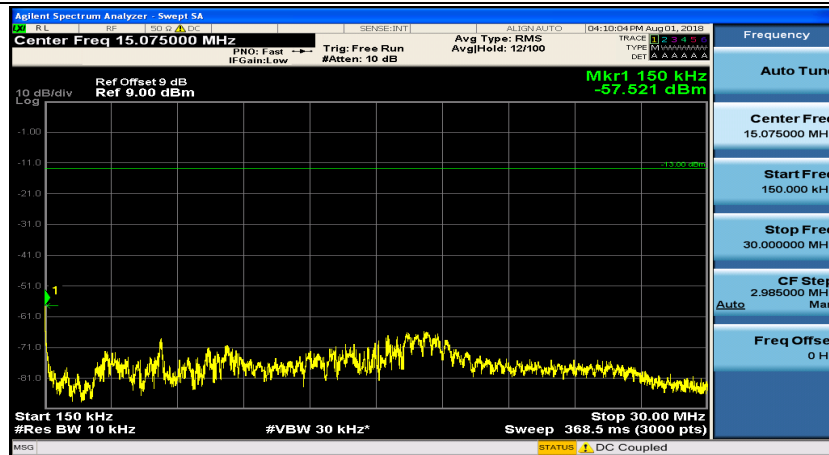
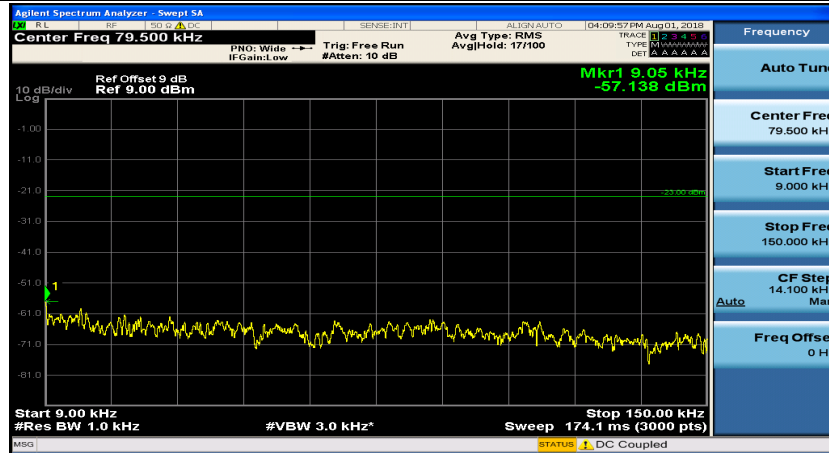


(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#49

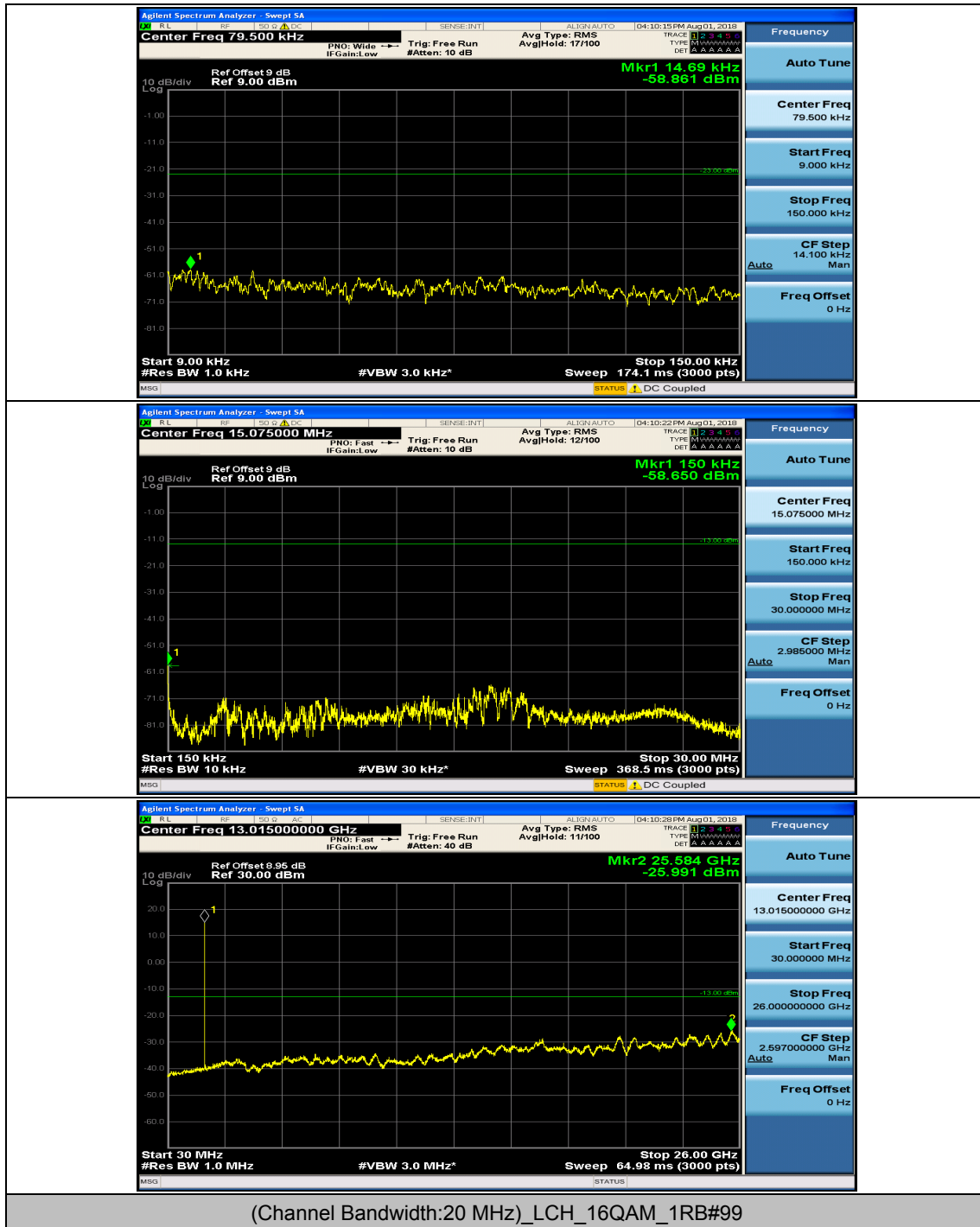


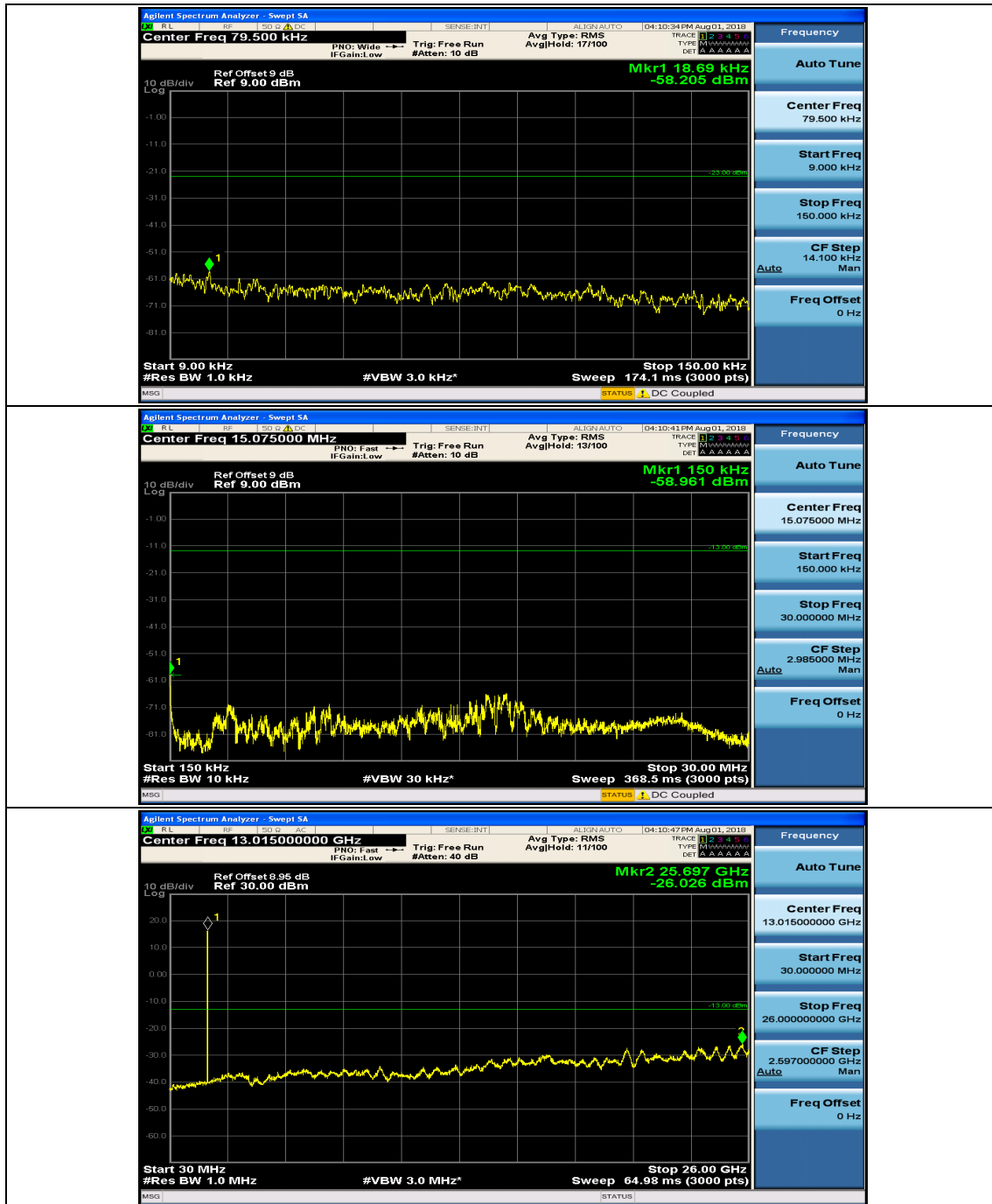


(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#0

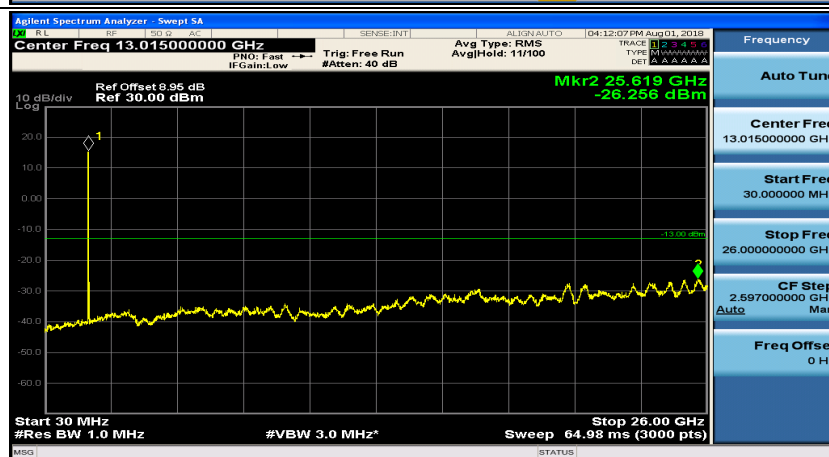
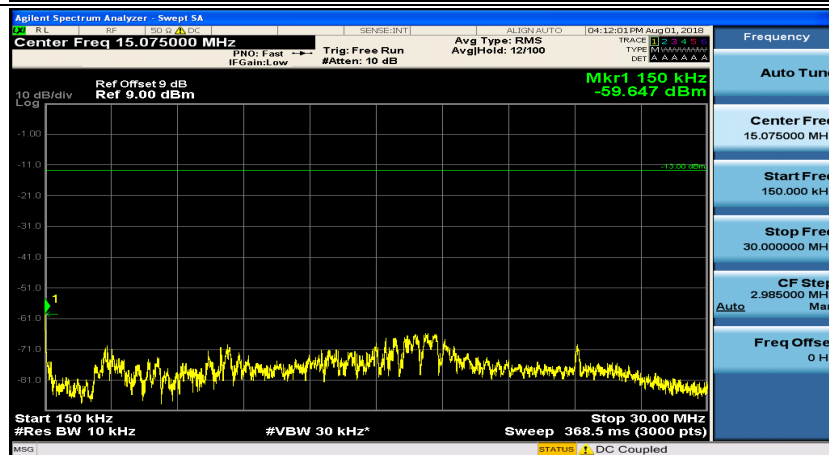
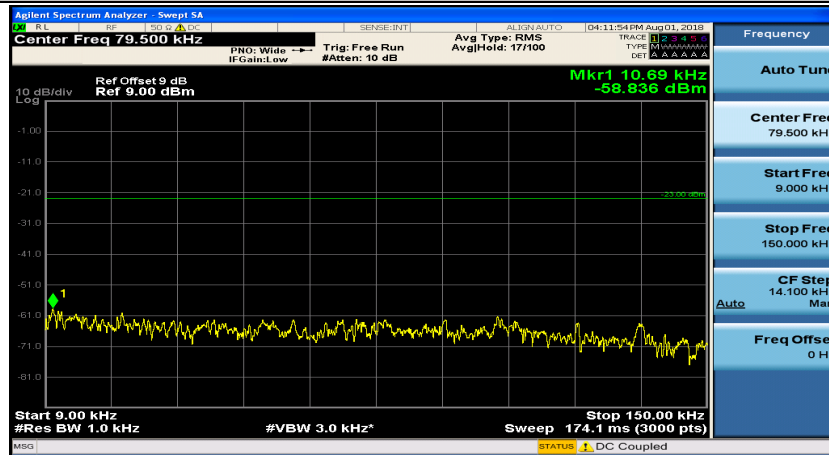


(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#49

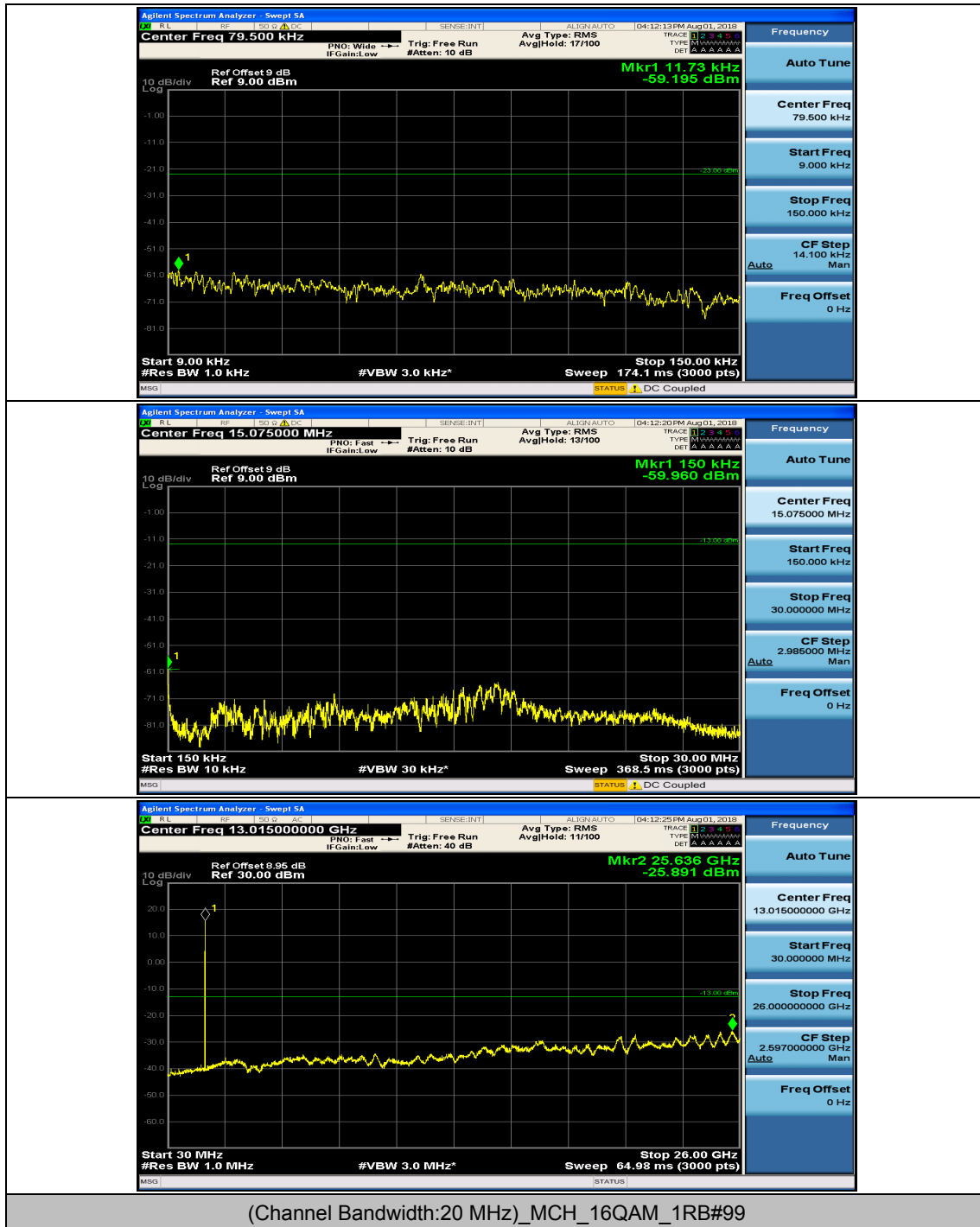


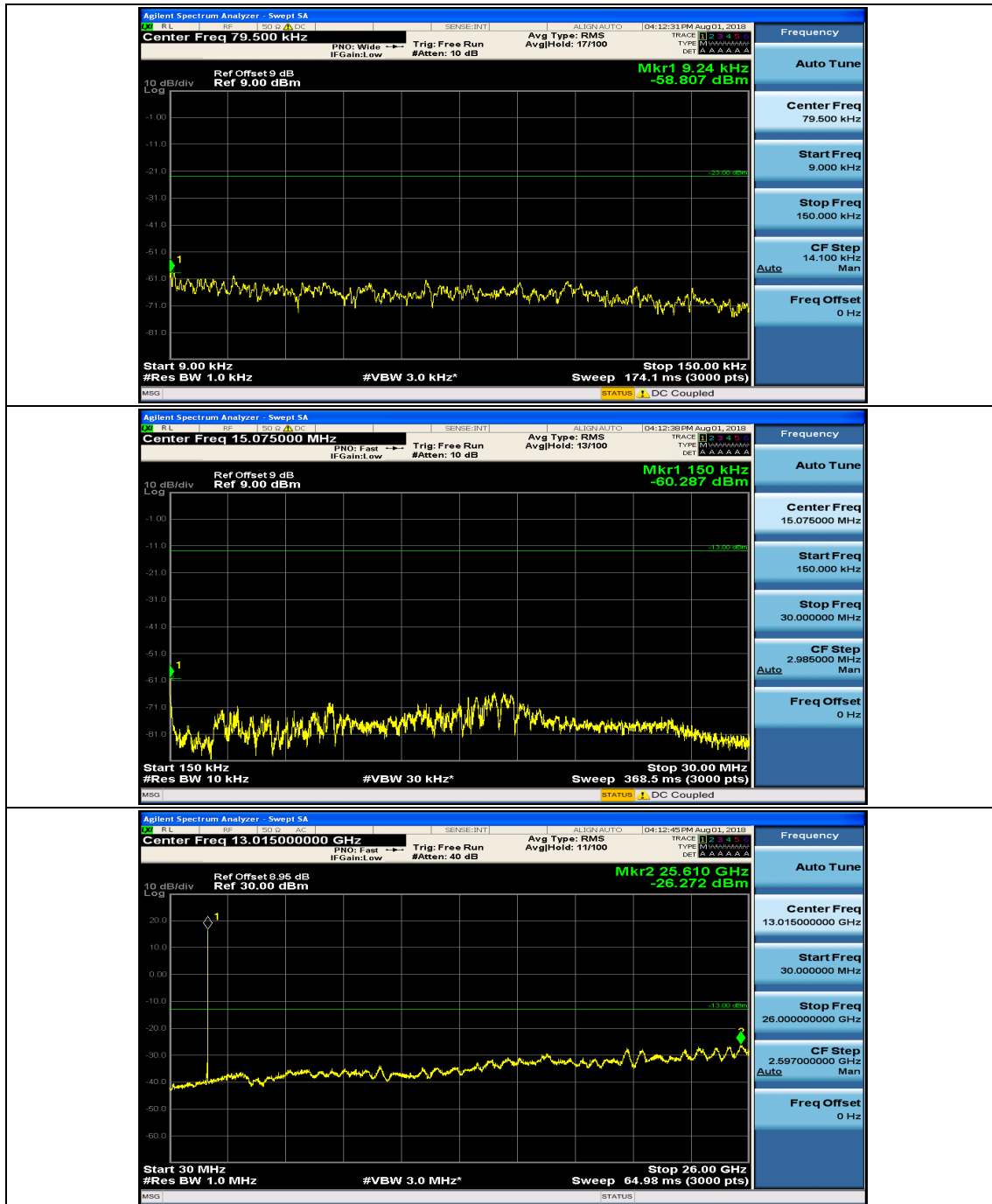


(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#0

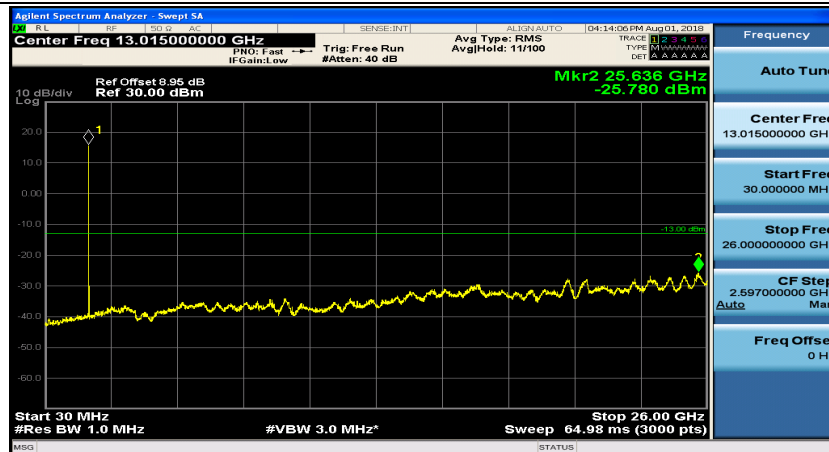
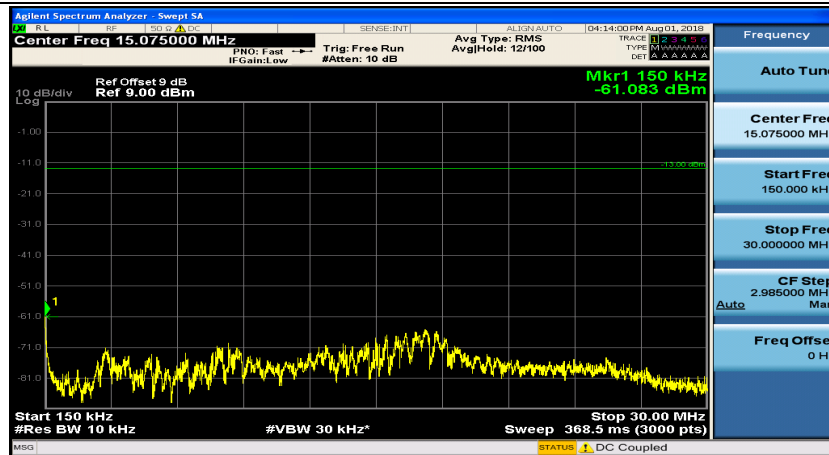
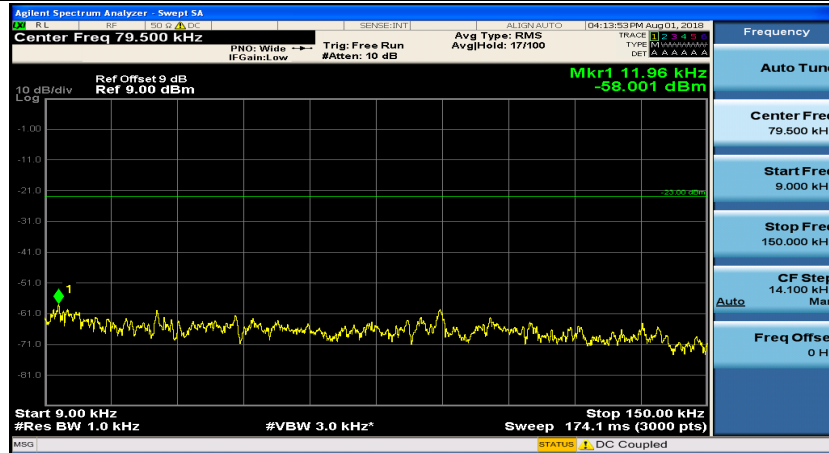


(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#49

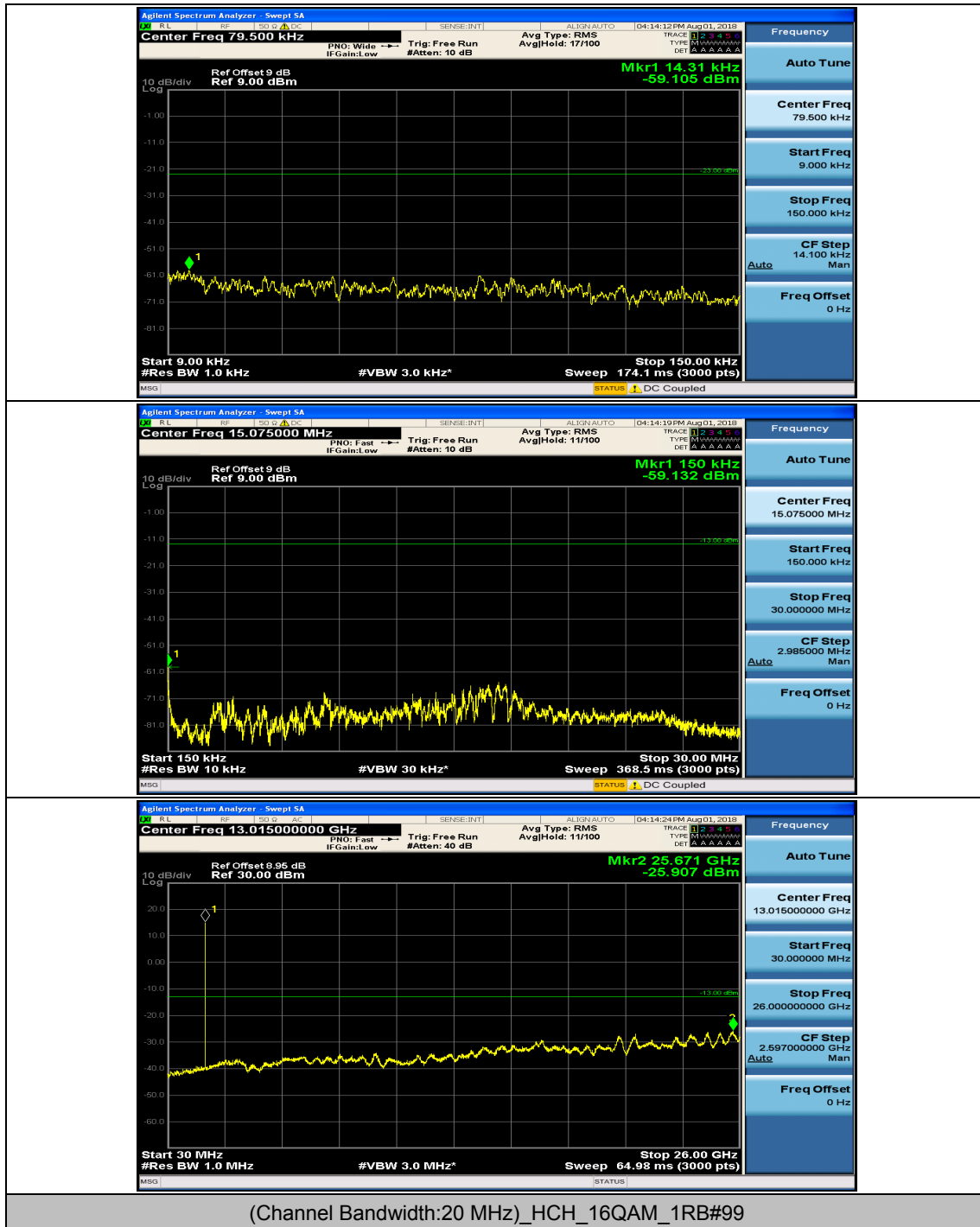


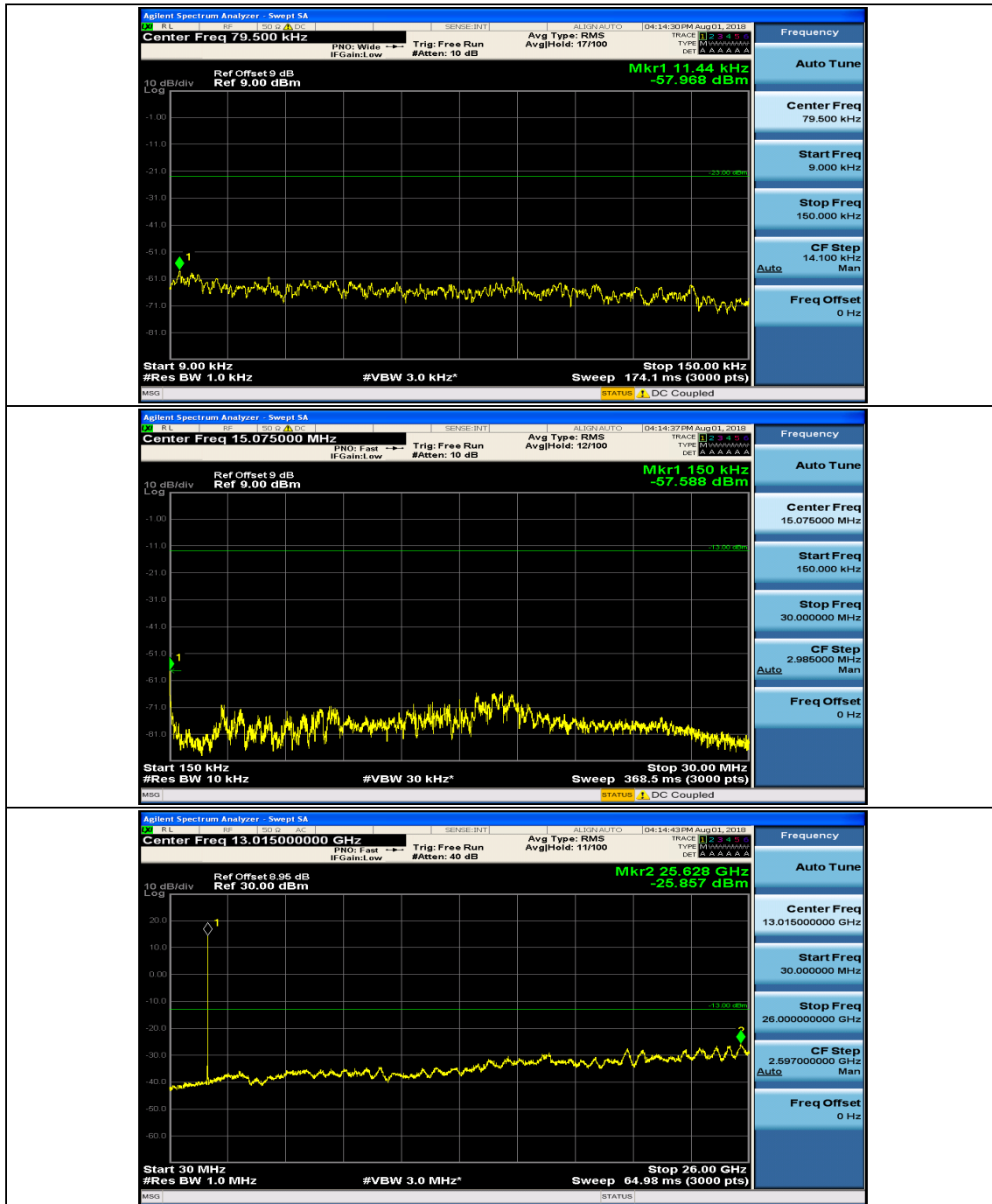


(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#0



(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	4.8	0.002806	± 2.5	PASS
		VN	TN	-1.52	-0.000889	± 2.5	PASS
		VH	TN	3.47	0.002028	± 2.5	PASS
	MCH	VL	TN	1.42	0.000820	± 2.5	PASS
		VN	TN	0.03	0.000017	± 2.5	PASS
		VH	TN	-0.83	-0.000479	± 2.5	PASS
	HCH	VL	TN	4.97	0.002833	± 2.5	PASS
		VN	TN	4.45	0.002537	± 2.5	PASS
		VH	TN	4.06	0.002314	± 2.5	PASS
16QAM	LCH	VL	TN	0.45	0.000263	± 2.5	PASS
		VN	TN	-1.13	-0.000661	± 2.5	PASS
		VH	TN	4.2	0.002455	± 2.5	PASS
	MCH	VL	TN	3.73	0.002153	± 2.5	PASS
		VN	TN	-1.6	-0.000924	± 2.5	PASS
		VH	TN	1.97	0.001137	± 2.5	PASS
	HCH	VL	TN	2.85	0.001625	± 2.5	PASS
		VN	TN	1.99	0.001134	± 2.5	PASS
		VH	TN	1.24	0.000707	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.64	-0.000374	± 2.5	PASS
		VN	-20	3.7	0.002163	± 2.5	PASS
		VN	-10	4.74	0.002771	± 2.5	PASS
		VN	0	0.77	0.000450	± 2.5	PASS
		VN	10	-0.32	-0.000187	± 2.5	PASS
		VN	20	1.6	0.000935	± 2.5	PASS
		VN	30	4.44	0.002595	± 2.5	PASS
		VN	40	2.84	0.001660	± 2.5	PASS
		VN	50	3.22	0.001882	± 2.5	PASS
	MCH	VN	-30	0.27	0.000156	± 2.5	PASS
		VN	-20	1.22	0.000704	± 2.5	PASS

		VN	-10	0.52	0.000300	± 2.5	PASS
		VN	0	-1.14	-0.000658	± 2.5	PASS
		VN	10	-1.76	-0.001016	± 2.5	PASS
		VN	20	0.48	0.000277	± 2.5	PASS
		VN	30	4.96	0.002863	± 2.5	PASS
		VN	40	2.88	0.001662	± 2.5	PASS
		VN	50	0.76	0.000439	± 2.5	PASS
	HCH	VN	-30	-1.34	-0.000764	± 2.5	PASS
		VN	-20	1.75	0.000998	± 2.5	PASS
		VN	-10	-1.05	-0.000599	± 2.5	PASS
		VN	0	0.07	0.000040	± 2.5	PASS
		VN	10	3.44	0.001961	± 2.5	PASS
		VN	20	-1.89	-0.001077	± 2.5	PASS
		VN	30	2.93	0.001670	± 2.5	PASS
		VN	40	2.09	0.001191	± 2.5	PASS
		VN	50	4.62	0.002634	± 2.5	PASS
16QAM	LCH	VN	-30	2.2	0.001286	± 2.5	PASS
		VN	-20	3.67	0.002145	± 2.5	PASS
		VN	-10	-1.18	-0.000690	± 2.5	PASS
		VN	0	0.83	0.000485	± 2.5	PASS
		VN	10	1.01	0.000590	± 2.5	PASS
		VN	20	3.58	0.002093	± 2.5	PASS
		VN	30	4.83	0.002823	± 2.5	PASS
		VN	40	1.8	0.001052	± 2.5	PASS
		VN	50	-0.25	-0.000146	± 2.5	PASS
	MCH	VN	-30	4.48	0.002554	± 2.5	PASS
		VN	-20	4.52	0.002577	± 2.5	PASS
		VN	-10	3.41	0.001944	± 2.5	PASS
		VN	0	3.72	0.002121	± 2.5	PASS
		VN	10	1.8	0.001026	± 2.5	PASS
		VN	20	0.96	0.000547	± 2.5	PASS
		VN	30	0.33	0.000188	± 2.5	PASS
		VN	40	1.99	0.001134	± 2.5	PASS
		VN	50	0.08	0.000046	± 2.5	PASS
	HCH	VN	-30	0.91	0.000519	± 2.5	PASS
		VN	-20	4.87	0.002776	± 2.5	PASS
		VN	-10	4.79	0.002730	± 2.5	PASS
		VN	0	3.24	0.001847	± 2.5	PASS
		VN	10	3.05	0.001739	± 2.5	PASS
		VN	20	1.22	0.000695	± 2.5	PASS
		VN	30	0.23	0.000131	± 2.5	PASS

		VN	40	2.37	0.001351	± 2.5	PASS
		VN	50	0.59	0.000336	± 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	4.53	0.002647	± 2.5	PASS
		VN	TN	0.29	0.000169	± 2.5	PASS
		VH	TN	0	0.000000	± 2.5	PASS
	MCH	VL	TN	-0.76	-0.000439	± 2.5	PASS
		VN	TN	-0.03	-0.000017	± 2.5	PASS
		VH	TN	2.87	0.001657	± 2.5	PASS
	HCH	VL	TN	-0.69	-0.000393	± 2.5	PASS
		VN	TN	3.73	0.002127	± 2.5	PASS
		VH	TN	2.73	0.001557	± 2.5	PASS
16QAM	LCH	VL	TN	2.06	0.001204	± 2.5	PASS
		VN	TN	3.69	0.002156	± 2.5	PASS
		VH	TN	-1.15	-0.000672	± 2.5	PASS
	MCH	VL	TN	0.05	0.000029	± 2.5	PASS
		VN	TN	3.96	0.002286	± 2.5	PASS
		VH	TN	0.83	0.000479	± 2.5	PASS
	HCH	VL	TN	-0.08	-0.000046	± 2.5	PASS
		VN	TN	2.22	0.001266	± 2.5	PASS
		VH	TN	3.15	0.001796	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.48	0.002033	± 2.5	PASS
		VN	-20	1.92	0.001122	± 2.5	PASS
		VN	-10	-0.11	-0.000064	± 2.5	PASS
		VN	0	4.5	0.002629	± 2.5	PASS
		VN	10	0.76	0.000444	± 2.5	PASS
		VN	20	-1.06	-0.000619	± 2.5	PASS
		VN	30	4.11	0.002401	± 2.5	PASS
		VN	40	2.87	0.001677	± 2.5	PASS
		VN	50	-0.53	-0.000310	± 2.5	PASS
	MCH	VN	-30	0.01	0.000006	± 2.5	PASS
		VN	-20	-0.64	-0.000369	± 2.5	PASS
		VN	-10	-1.26	-0.000727	± 2.5	PASS

		VN	0	-1.75	-0.001010	± 2.5	PASS
		VN	10	2.35	0.001356	± 2.5	PASS
		VN	20	0.57	0.000329	± 2.5	PASS
		VN	30	3.39	0.001957	± 2.5	PASS
		VN	40	-0.5	-0.000289	± 2.5	PASS
		VN	50	-0.59	-0.000341	± 2.5	PASS
	HCH	VN	-30	4.27	0.002435	± 2.5	PASS
		VN	-20	-0.85	-0.000485	± 2.5	PASS
		VN	-10	-0.55	-0.000314	± 2.5	PASS
		VN	0	-1.41	-0.000804	± 2.5	PASS
		VN	10	1.56	0.000890	± 2.5	PASS
		VN	20	1.37	0.000781	± 2.5	PASS
		VN	30	4.78	0.002726	± 2.5	PASS
		VN	40	0.98	0.000559	± 2.5	PASS
		VN	50	-0.3	-0.000171	± 2.5	PASS
16QAM	LCH	VN	-30	2.25	0.001299	± 2.5	PASS
		VN	-20	2.29	0.001322	± 2.5	PASS
		VN	-10	-0.03	-0.000017	± 2.5	PASS
		VN	0	-0.36	-0.000208	± 2.5	PASS
		VN	10	0.01	0.000006	± 2.5	PASS
		VN	20	3.02	0.001743	± 2.5	PASS
		VN	30	0.36	0.000208	± 2.5	PASS
		VN	40	3.48	0.002009	± 2.5	PASS
		VN	50	2.62	0.001512	± 2.5	PASS
	MCH	VN	-30	-1.4	-0.000798	± 2.5	PASS
		VN	-20	2.72	0.001551	± 2.5	PASS
		VN	-10	-0.4	-0.000228	± 2.5	PASS
		VN	0	0.54	0.000308	± 2.5	PASS
		VN	10	3.39	0.001933	± 2.5	PASS
		VN	20	4.41	0.002515	± 2.5	PASS
		VN	30	-1.01	-0.000576	± 2.5	PASS
		VN	40	4.27	0.002435	± 2.5	PASS
		VN	50	-1.19	-0.000679	± 2.5	PASS
	HCH	VN	-30	3.03	0.001728	± 2.5	PASS
		VN	-20	4.28	0.002441	± 2.5	PASS
		VN	-10	3.25	0.001853	± 2.5	PASS
		VN	0	2.84	0.001620	± 2.5	PASS
		VN	10	-1.31	-0.000747	± 2.5	PASS
		VN	20	1.26	0.000719	± 2.5	PASS
		VN	30	0.61	0.000348	± 2.5	PASS
		VN	40	0.9	0.000513	± 2.5	PASS

		VN	50	3.24	0.001848	± 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	1.26	0.000736	± 2.5	PASS
		VN	TN	-0.07	-0.000041	± 2.5	PASS
		VH	TN	-1.43	-0.000835	± 2.5	PASS
	MCH	VL	TN	3.44	0.001986	± 2.5	PASS
		VN	TN	0.39	0.000225	± 2.5	PASS
		VH	TN	-0.08	-0.000046	± 2.5	PASS
	HCH	VL	TN	1.55	0.000884	± 2.5	PASS
		VN	TN	1.65	0.000942	± 2.5	PASS
		VH	TN	3.94	0.002248	± 2.5	PASS
16QAM	LCH	VL	TN	1.39	0.000812	± 2.5	PASS
		VN	TN	3.55	0.002073	± 2.5	PASS
		VH	TN	4.64	0.002709	± 2.5	PASS
	MCH	VL	TN	1.01	0.000583	± 2.5	PASS
		VN	TN	4.08	0.002355	± 2.5	PASS
		VH	TN	3.13	0.001807	± 2.5	PASS
	HCH	VL	TN	0.56	0.000320	± 2.5	PASS
		VN	TN	-0.13	-0.000074	± 2.5	PASS
		VH	TN	3.62	0.002066	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.15	0.000088	± 2.5	PASS
		VN	-20	3.42	0.001997	± 2.5	PASS
		VN	-10	-1.55	-0.000905	± 2.5	PASS
		VN	0	3.46	0.002020	± 2.5	PASS
		VN	10	-0.39	-0.000228	± 2.5	PASS
		VN	20	3.22	0.001880	± 2.5	PASS
		VN	30	3.72	0.002172	± 2.5	PASS
		VN	40	3.56	0.002079	± 2.5	PASS
		VN	50	2.81	0.001641	± 2.5	PASS
	MCH	VN	-30	1.47	0.000848	± 2.5	PASS
		VN	-20	1.8	0.001039	± 2.5	PASS
		VN	-10	2.69	0.001553	± 2.5	PASS
		VN	0	4.93	0.002846	± 2.5	PASS

		VN	10	2.23	0.001287	± 2.5	PASS
		VN	20	-0.75	-0.000433	± 2.5	PASS
		VN	30	2.7	0.001558	± 2.5	PASS
		VN	40	1.25	0.000722	± 2.5	PASS
		VN	50	-1.07	-0.000618	± 2.5	PASS
	HCH	VN	-30	2.98	0.001700	± 2.5	PASS
		VN	-20	2.77	0.001452	± 2.5	PASS
		VN	-10	-0.12	-0.000063	± 2.5	PASS
		VN	0	1.63	0.000855	± 2.5	PASS
		VN	10	-1.95	-0.001022	± 2.5	PASS
		VN	20	-0.12	-0.000063	± 2.5	PASS
		VN	30	4.33	0.002270	± 2.5	PASS
		VN	40	1.69	0.000886	± 2.5	PASS
		VN	50	4.5	0.002359	± 2.5	PASS
16QAM	LCH	VN	-30	1.06	0.000612	± 2.5	PASS
		VN	-20	-1.84	-0.001062	± 2.5	PASS
		VN	-10	0.61	0.000352	± 2.5	PASS
		VN	0	0.87	0.000502	± 2.5	PASS
		VN	10	2.52	0.001455	± 2.5	PASS
		VN	20	-1.59	-0.000918	± 2.5	PASS
		VN	30	0.44	0.000254	± 2.5	PASS
		VN	40	2.21	0.001276	± 2.5	PASS
		VN	50	0.52	0.000300	± 2.5	PASS
	MCH	VN	-30	-0.64	-0.000365	± 2.5	PASS
		VN	-20	-1.95	-0.001113	± 2.5	PASS
		VN	-10	-1.28	-0.000730	± 2.5	PASS
		VN	0	-1.6	-0.000913	± 2.5	PASS
		VN	10	4.46	0.002545	± 2.5	PASS
		VN	20	-0.2	-0.000114	± 2.5	PASS
		VN	30	2	0.001141	± 2.5	PASS
		VN	40	-0.65	-0.000371	± 2.5	PASS
		VN	50	4.67	0.002665	± 2.5	PASS
	HCH	VN	-30	-1.89	-0.000991	± 2.5	PASS
		VN	-20	3.99	0.002092	± 2.5	PASS
		VN	-10	-0.6	-0.000315	± 2.5	PASS
		VN	0	4.9	0.002569	± 2.5	PASS
		VN	10	1.09	0.000571	± 2.5	PASS
		VN	20	0.23	0.000121	± 2.5	PASS
		VN	30	-1.67	-0.000875	± 2.5	PASS
		VN	40	2.63	0.001379	± 2.5	PASS
		VN	50	-0.35	-0.000183	± 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	0.49	0.000286	± 2.5	PASS
		VN	TN	1.37	0.000799	± 2.5	PASS
		VH	TN	-0.48	-0.000280	± 2.5	PASS
	MCH	VL	TN	0.36	0.000208	± 2.5	PASS
		VN	TN	1.65	0.000952	± 2.5	PASS
		VH	TN	3.61	0.002084	± 2.5	PASS
	HCH	VL	TN	0.02	0.000011	± 2.5	PASS
		VN	TN	4.37	0.002497	± 2.5	PASS
		VH	TN	4.65	0.002657	± 2.5	PASS
16QAM	LCH	VL	TN	4.49	0.002618	± 2.5	PASS
		VN	TN	1.83	0.001067	± 2.5	PASS
		VH	TN	0.54	0.000315	± 2.5	PASS
	MCH	VL	TN	4.54	0.002620	± 2.5	PASS
		VN	TN	3.44	0.001986	± 2.5	PASS
		VH	TN	4.69	0.002707	± 2.5	PASS
	HCH	VL	TN	3.73	0.002131	± 2.5	PASS
		VN	TN	3.32	0.001897	± 2.5	PASS
		VH	TN	-0.2	-0.000114	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	-0.9	-0.000525	± 2.5	PASS
		VN	-20	-1.45	-0.000845	± 2.5	PASS
		VN	-10	3.31	0.001930	± 2.5	PASS
		VN	0	3.24	0.001889	± 2.5	PASS
		VN	10	4.86	0.002834	± 2.5	PASS
		VN	20	4.22	0.002461	± 2.5	PASS
		VN	30	0.45	0.000262	± 2.5	PASS
		VN	40	2.05	0.001195	± 2.5	PASS
		VN	50	3.67	0.002140	± 2.5	PASS
	MCH	VN	-30	0.58	0.000335	± 2.5	PASS
		VN	-20	-1.08	-0.000623	± 2.5	PASS
		VN	-10	2.53	0.001460	± 2.5	PASS
		VN	0	4.86	0.002805	± 2.5	PASS
		VN	10	2.14	0.001235	± 2.5	PASS
		VN	20	0.21	0.000121	± 2.5	PASS

		VN	30	4.43	0.002557	± 2.5	PASS
		VN	40	1.63	0.000941	± 2.5	PASS
		VN	50	1.3	0.000750	± 2.5	PASS
	HCH	VN	-30	0.7	0.000400	± 2.5	PASS
		VN	-20	4.38	0.002503	± 2.5	PASS
		VN	-10	-0.95	-0.000543	± 2.5	PASS
		VN	0	4.2	0.002400	± 2.5	PASS
		VN	10	4.08	0.002331	± 2.5	PASS
		VN	20	-0.93	-0.000531	± 2.5	PASS
		VN	30	-0.99	-0.000566	± 2.5	PASS
		VN	40	4.25	0.002429	± 2.5	PASS
		VN	50	-0.65	-0.000371	± 2.5	PASS
QPSK	LCH	VN	-30	-0.79	-0.000456	± 2.5	PASS
		VN	-20	-1.49	-0.000860	± 2.5	PASS
		VN	-10	0.95	0.000548	± 2.5	PASS
		VN	0	4.25	0.002453	± 2.5	PASS
		VN	10	0.71	0.000410	± 2.5	PASS
		VN	20	-0.28	-0.000162	± 2.5	PASS
		VN	30	0.54	0.000312	± 2.5	PASS
		VN	40	4.66	0.002690	± 2.5	PASS
		VN	50	2.74	0.001582	± 2.5	PASS
	MCH	VN	-30	-0.08	-0.000046	± 2.5	PASS
		VN	-20	-0.54	-0.000309	± 2.5	PASS
		VN	-10	-0.7	-0.000400	± 2.5	PASS
		VN	0	2.69	0.001537	± 2.5	PASS
		VN	10	2.9	0.001657	± 2.5	PASS
		VN	20	4.94	0.002823	± 2.5	PASS
		VN	30	-1.85	-0.001057	± 2.5	PASS
		VN	40	-0.31	-0.000177	± 2.5	PASS
		VN	50	-1.48	-0.000846	± 2.5	PASS
	HCH	VN	-30	-1.93	-0.001103	± 2.5	PASS
		VN	-20	3.65	0.002086	± 2.5	PASS
		VN	-10	0.4	0.000229	± 2.5	PASS
		VN	0	2.32	0.001326	± 2.5	PASS
		VN	10	-0.71	-0.000406	± 2.5	PASS
		VN	20	4.15	0.002371	± 2.5	PASS
		VN	30	0.1	0.000057	± 2.5	PASS
		VN	40	0.58	0.000331	± 2.5	PASS
		VN	50	0.77	0.000440	± 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	0.46	0.000268	± 2.5	PASS
		VN	TN	4.61	0.002684	± 2.5	PASS
		VH	TN	-0.11	-0.000064	± 2.5	PASS
	MCH	VL	TN	0.46	0.000266	± 2.5	PASS
		VN	TN	3.07	0.001772	± 2.5	PASS
		VH	TN	-0.45	-0.000260	± 2.5	PASS
	HCH	VL	TN	3.64	0.002083	± 2.5	PASS
		VN	TN	2.16	0.001236	± 2.5	PASS
		VH	TN	4.71	0.002695	± 2.5	PASS
16QAM	LCH	VL	TN	4.29	0.002498	± 2.5	PASS
		VN	TN	2.41	0.001403	± 2.5	PASS
		VH	TN	2.91	0.001694	± 2.5	PASS
	MCH	VL	TN	1.02	0.000589	± 2.5	PASS
		VN	TN	3.24	0.001870	± 2.5	PASS
		VH	TN	0.83	0.000479	± 2.5	PASS
	HCH	VL	TN	4.05	0.002318	± 2.5	PASS
		VN	TN	2.6	0.001488	± 2.5	PASS
		VH	TN	-0.8	-0.000458	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.68	-0.000396	± 2.5	PASS
		VN	-20	2.13	0.001240	± 2.5	PASS
		VN	-10	1.73	0.001007	± 2.5	PASS
		VN	0	0.31	0.000180	± 2.5	PASS
		VN	10	-1.51	-0.000879	± 2.5	PASS
		VN	20	-0.13	-0.000076	± 2.5	PASS
		VN	30	3.7	0.002154	± 2.5	PASS
		VN	40	1.48	0.000862	± 2.5	PASS
		VN	50	-0.31	-0.000180	± 2.5	PASS
	MCH	VN	-30	0.9	0.000519	± 2.5	PASS
		VN	-20	-1.88	-0.001085	± 2.5	PASS
		VN	-10	2.47	0.001426	± 2.5	PASS
		VN	0	4.09	0.002361	± 2.5	PASS
		VN	10	4.6	0.002655	± 2.5	PASS
		VN	20	-0.93	-0.000537	± 2.5	PASS

		VN	30	2.35	0.001356	± 2.5	PASS
		VN	40	-1.46	-0.000843	± 2.5	PASS
		VN	50	0.09	0.000052	± 2.5	PASS
	HCH	VN	-30	3.74	0.002140	± 2.5	PASS
		VN	-20	3.34	0.001911	± 2.5	PASS
		VN	-10	-0.34	-0.000195	± 2.5	PASS
		VN	0	-1.92	-0.001099	± 2.5	PASS
		VN	10	-1.32	-0.000755	± 2.5	PASS
		VN	20	-1.2	-0.000687	± 2.5	PASS
		VN	30	-0.53	-0.000303	± 2.5	PASS
		VN	40	2.06	0.001179	± 2.5	PASS
		VN	50	2.93	0.001677	± 2.5	PASS
16QAM	LCH	VN	-30	-0.36	-0.000208	± 2.5	PASS
		VN	-20	3.82	0.002205	± 2.5	PASS
		VN	-10	0.66	0.000381	± 2.5	PASS
		VN	0	0.05	0.000029	± 2.5	PASS
		VN	10	-0.01	-0.000006	± 2.5	PASS
		VN	20	3.44	0.001986	± 2.5	PASS
		VN	30	4.88	0.002817	± 2.5	PASS
		VN	40	4.44	0.002563	± 2.5	PASS
		VN	50	0.97	0.000560	± 2.5	PASS
	MCH	VN	-30	1.03	0.000589	± 2.5	PASS
		VN	-20	1.2	0.000687	± 2.5	PASS
		VN	-10	-0.4	-0.000229	± 2.5	PASS
		VN	0	-1.63	-0.000933	± 2.5	PASS
		VN	10	1.76	0.001007	± 2.5	PASS
		VN	20	4.8	0.002747	± 2.5	PASS
		VN	30	4.22	0.002415	± 2.5	PASS
		VN	40	0.93	0.000532	± 2.5	PASS
		VN	50	0.42	0.000240	± 2.5	PASS
	HCH	VN	-30	-1.06	-0.000607	± 2.5	PASS
		VN	-20	-0.88	-0.000504	± 2.5	PASS
		VN	-10	3.11	0.001780	± 2.5	PASS
		VN	0	2.71	0.001551	± 2.5	PASS
		VN	10	0.04	0.000023	± 2.5	PASS
		VN	20	4.24	0.002426	± 2.5	PASS
		VN	30	0.25	0.000143	± 2.5	PASS
		VN	40	3.29	0.001883	± 2.5	PASS
		VN	50	-1.82	-0.001041	± 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	4.84	0.002814	± 2.5	PASS
		VN	TN	4.03	0.002343	± 2.5	PASS
		VH	TN	4.83	0.002808	± 2.5	PASS
	MCH	VL	TN	4.56	0.002632	± 2.5	PASS
		VN	TN	3.95	0.002280	± 2.5	PASS
		VH	TN	3.22	0.001859	± 2.5	PASS
	HCH	VL	TN	2.17	0.001244	± 2.5	PASS
		VN	TN	1.38	0.000791	± 2.5	PASS
		VH	TN	-0.87	-0.000499	± 2.5	PASS
16QAM	LCH	VL	TN	4.8	0.002791	± 2.5	PASS
		VN	TN	-1.66	-0.000965	± 2.5	PASS
		VH	TN	2.6	0.001512	± 2.5	PASS
	MCH	VL	TN	0.92	0.000531	± 2.5	PASS
		VN	TN	0.45	0.000260	± 2.5	PASS
		VH	TN	4.69	0.002707	± 2.5	PASS
	HCH	VL	TN	3.65	0.002092	± 2.5	PASS
		VN	TN	1.75	0.001003	± 2.5	PASS
		VH	TN	4.86	0.002785	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.45	-0.000262	± 2.5	PASS
		VN	-20	4.11	0.002390	± 2.5	PASS
		VN	-10	-1.67	-0.000971	± 2.5	PASS
		VN	0	1.99	0.001157	± 2.5	PASS
		VN	10	-0.55	-0.000320	± 2.5	PASS
		VN	20	0.16	0.000093	± 2.5	PASS
		VN	30	-1.74	-0.001012	± 2.5	PASS
		VN	40	4.07	0.002366	± 2.5	PASS
		VN	50	-1.76	-0.001023	± 2.5	PASS
	MCH	VN	-30	-0.88	-0.000508	± 2.5	PASS
		VN	-20	-0.93	-0.000537	± 2.5	PASS
		VN	-10	4.69	0.002707	± 2.5	PASS
		VN	0	-1.26	-0.000727	± 2.5	PASS
		VN	10	3.36	0.001939	± 2.5	PASS
		VN	20	1.03	0.000595	± 2.5	PASS

		VN	30	1.26	0.000727	± 2.5	PASS
		VN	40	3.97	0.002291	± 2.5	PASS
		VN	50	4.58	0.002644	± 2.5	PASS
	HCH	VN	-30	-0.41	-0.000235	± 2.5	PASS
		VN	-20	-1.15	-0.000659	± 2.5	PASS
		VN	-10	-1.8	-0.001032	± 2.5	PASS
		VN	0	3.68	0.002109	± 2.5	PASS
		VN	10	0.92	0.000527	± 2.5	PASS
		VN	20	4.1	0.002350	± 2.5	PASS
		VN	30	3.05	0.001748	± 2.5	PASS
		VN	40	1.31	0.000751	± 2.5	PASS
		VN	50	1.75	0.001003	± 2.5	PASS
16QAM	LCH	VN	-30	0.9	0.000519	± 2.5	PASS
		VN	-20	0.68	0.000392	± 2.5	PASS
		VN	-10	2.47	0.001426	± 2.5	PASS
		VN	0	0.8	0.000462	± 2.5	PASS
		VN	10	3.1	0.001789	± 2.5	PASS
		VN	20	3.75	0.002165	± 2.5	PASS
		VN	30	-0.83	-0.000479	± 2.5	PASS
		VN	40	-0.24	-0.000139	± 2.5	PASS
		VN	50	0.21	0.000121	± 2.5	PASS
	MCH	VN	-30	1.56	0.000894	± 2.5	PASS
		VN	-20	0.73	0.000418	± 2.5	PASS
		VN	-10	1.68	0.000963	± 2.5	PASS
		VN	0	3.29	0.001885	± 2.5	PASS
		VN	10	3.66	0.002097	± 2.5	PASS
		VN	20	0.51	0.000292	± 2.5	PASS
		VN	30	1.17	0.000670	± 2.5	PASS
		VN	40	4.46	0.002556	± 2.5	PASS
		VN	50	-1.81	-0.001037	± 2.5	PASS
	HCH	VN	-30	-1.98	-0.001135	± 2.5	PASS
		VN	-20	1.68	0.000963	± 2.5	PASS
		VN	-10	2.58	0.001479	± 2.5	PASS
		VN	0	0.25	0.000143	± 2.5	PASS
		VN	10	-0.93	-0.000533	± 2.5	PASS
		VN	20	0.02	0.000011	± 2.5	PASS
		VN	30	0.84	0.000481	± 2.5	PASS
		VN	40	-0.16	-0.000092	± 2.5	PASS
		VN	50	4.6	0.002636	± 2.5	PASS