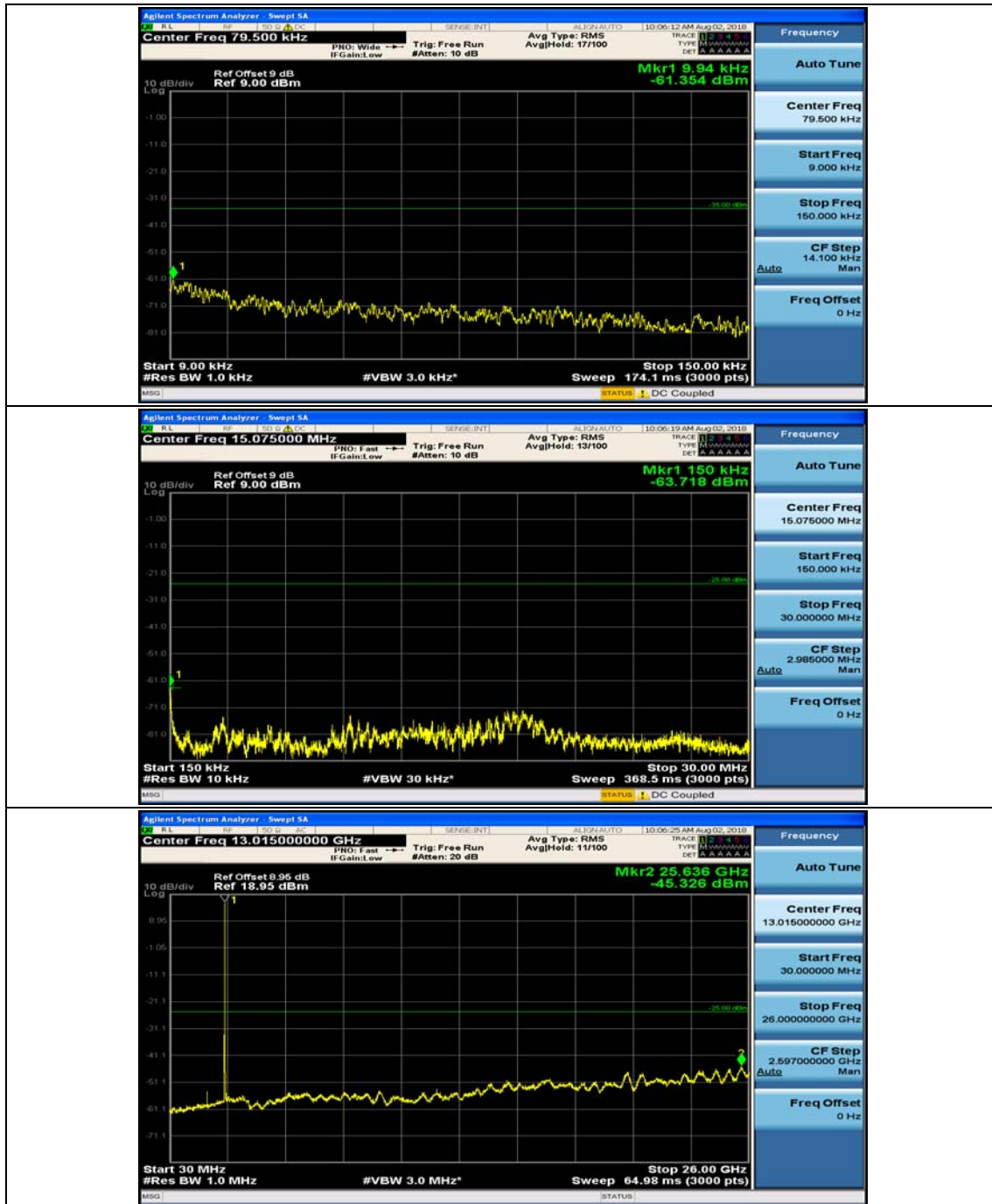
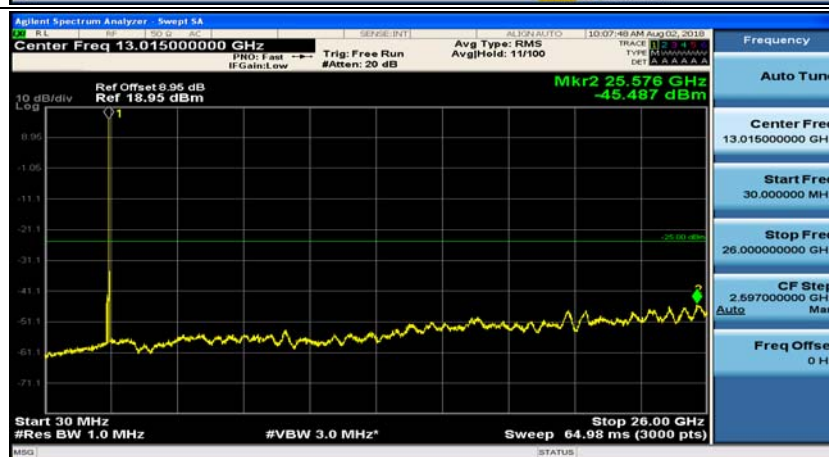
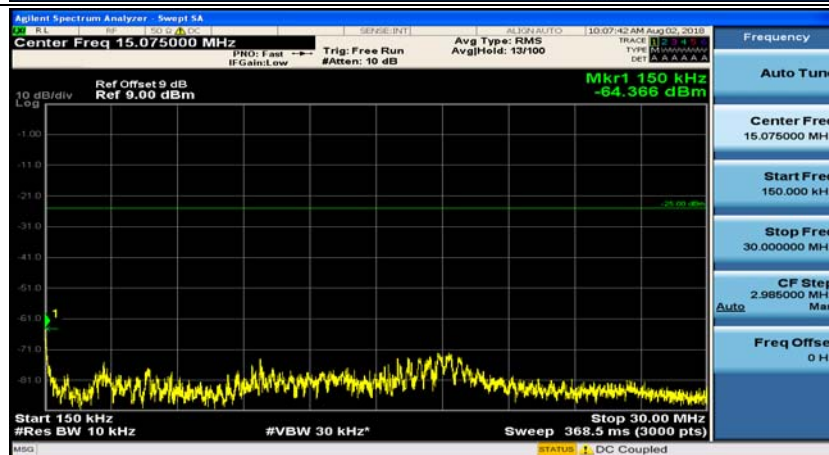
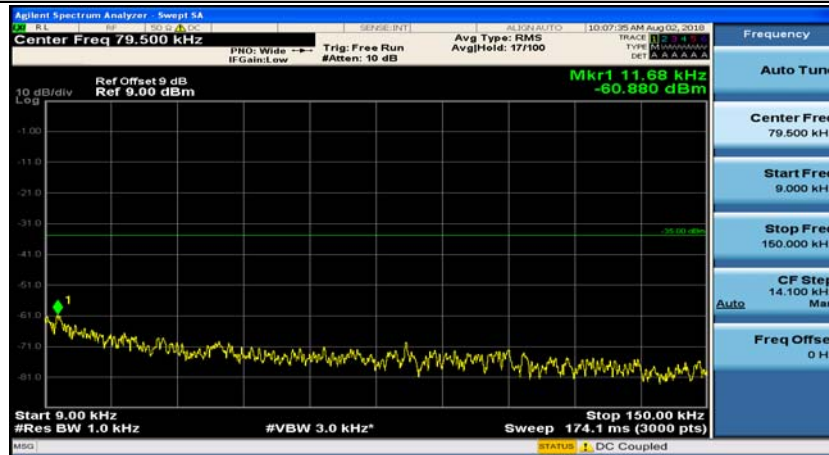
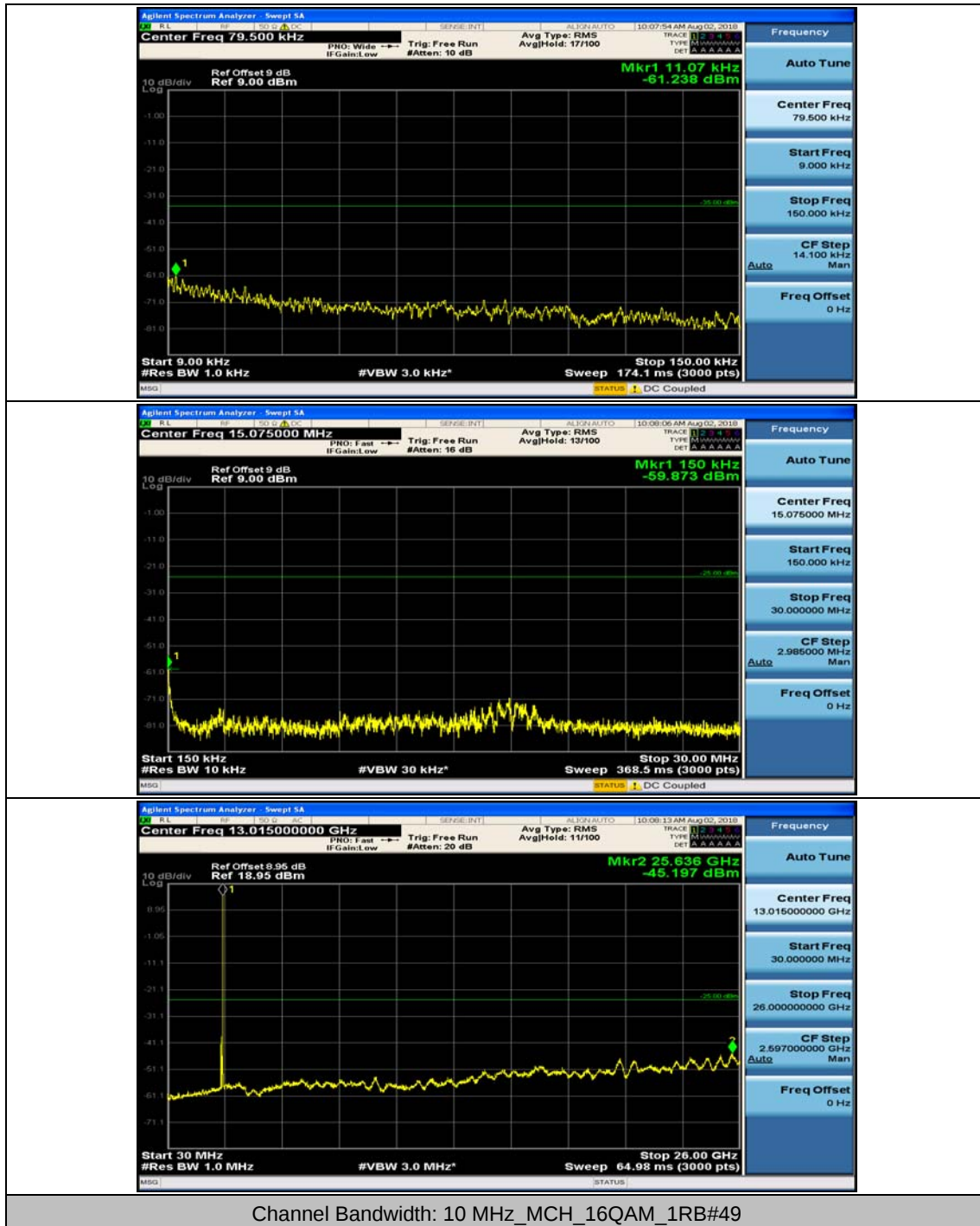


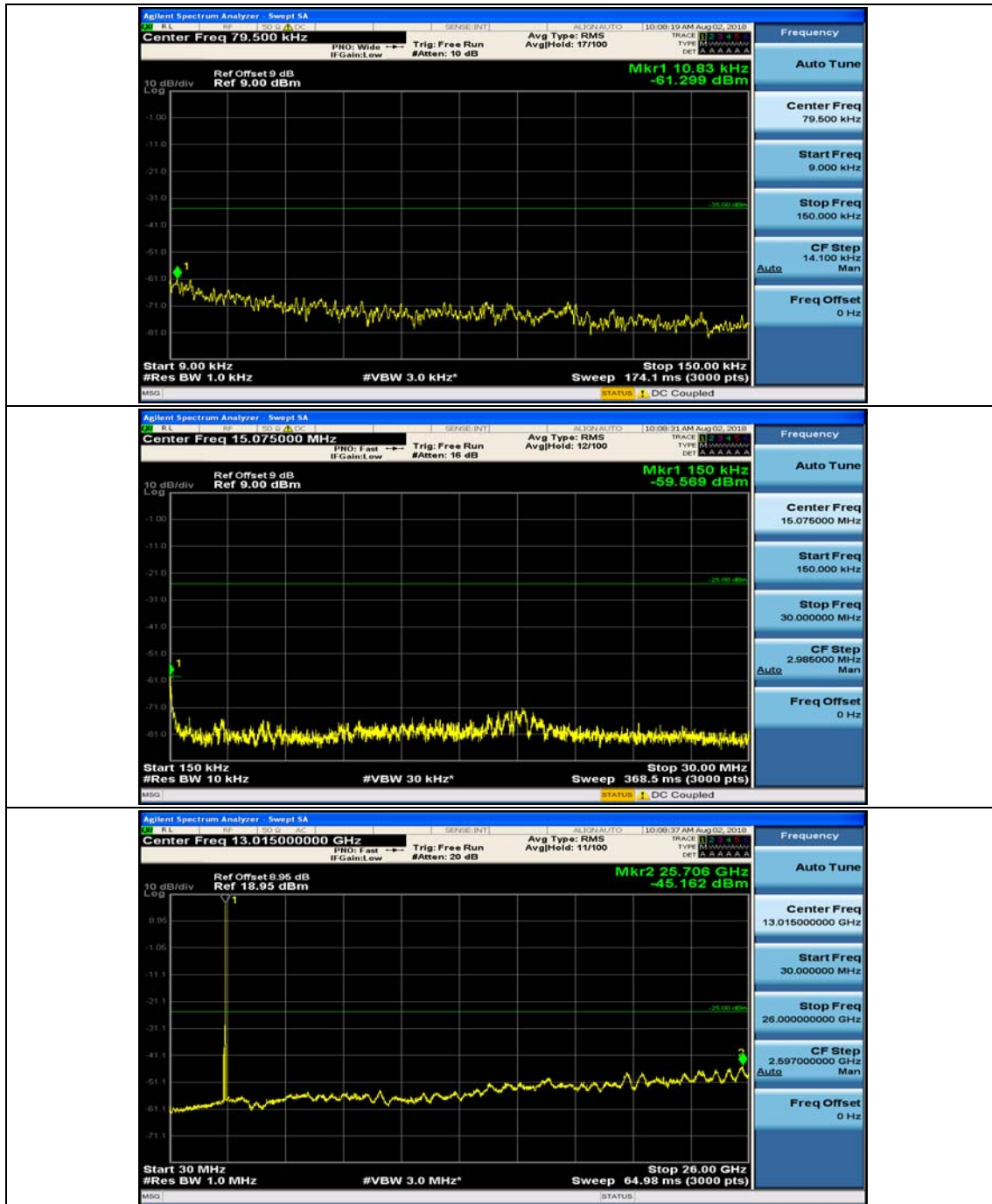


Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0

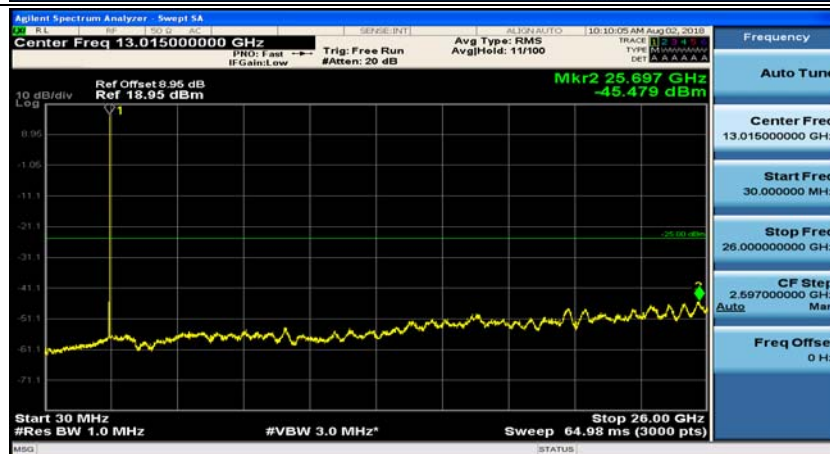
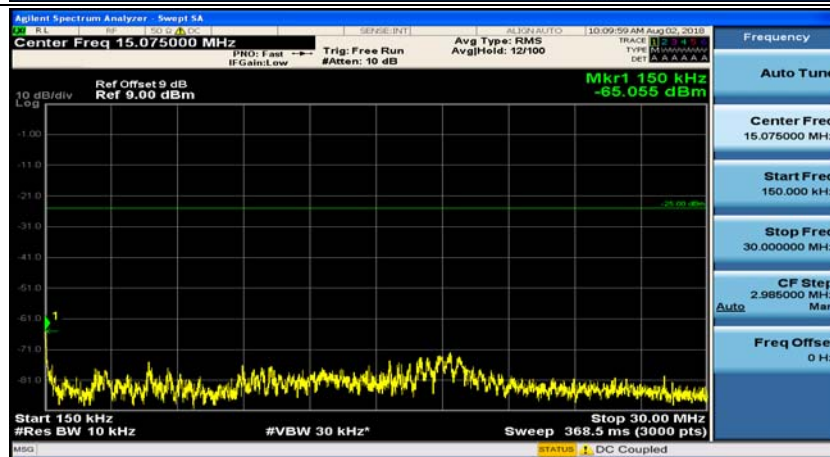
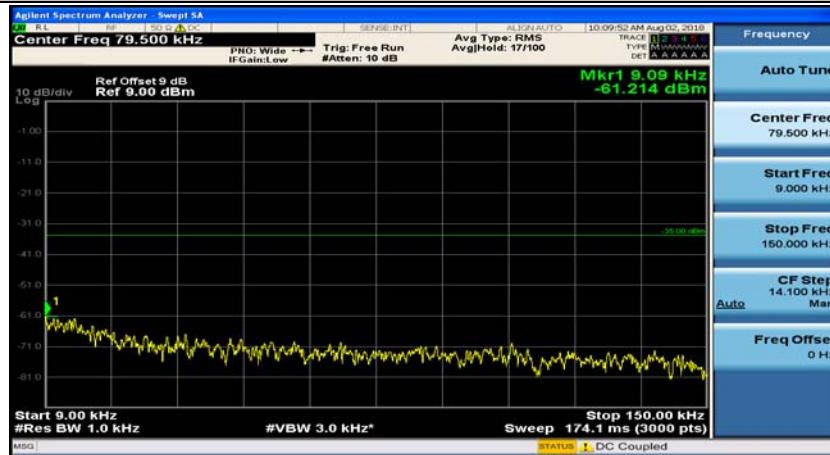


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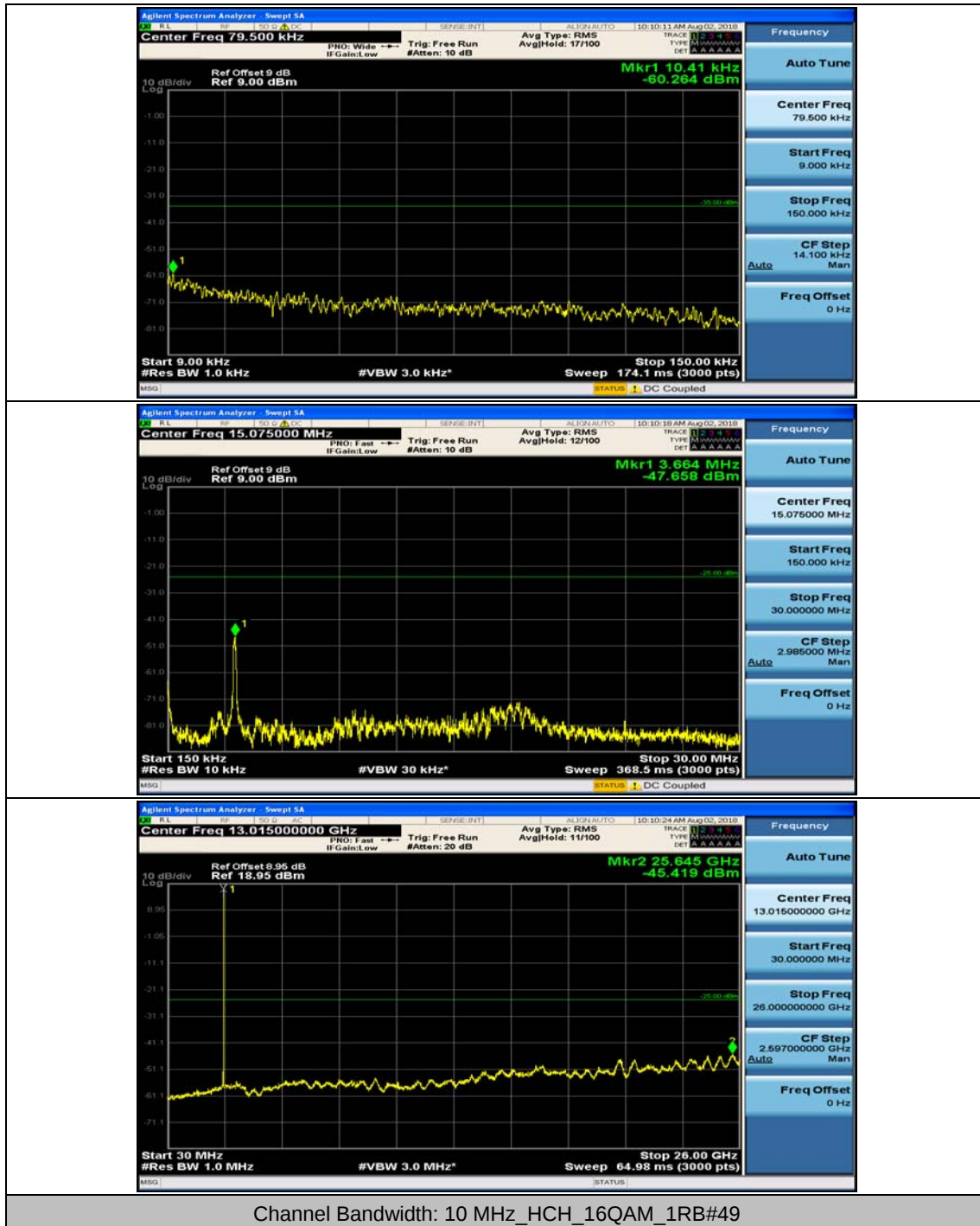


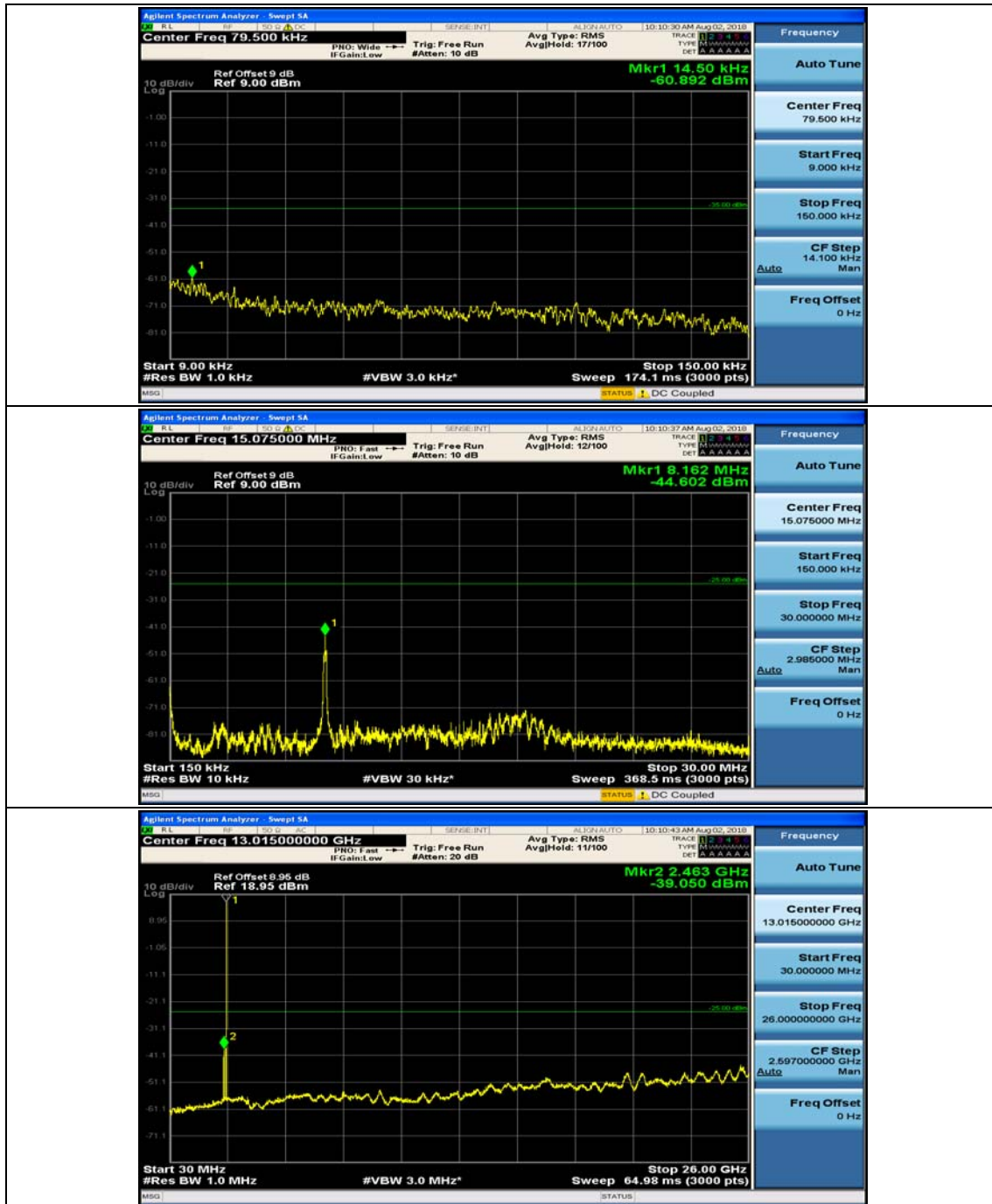


Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0

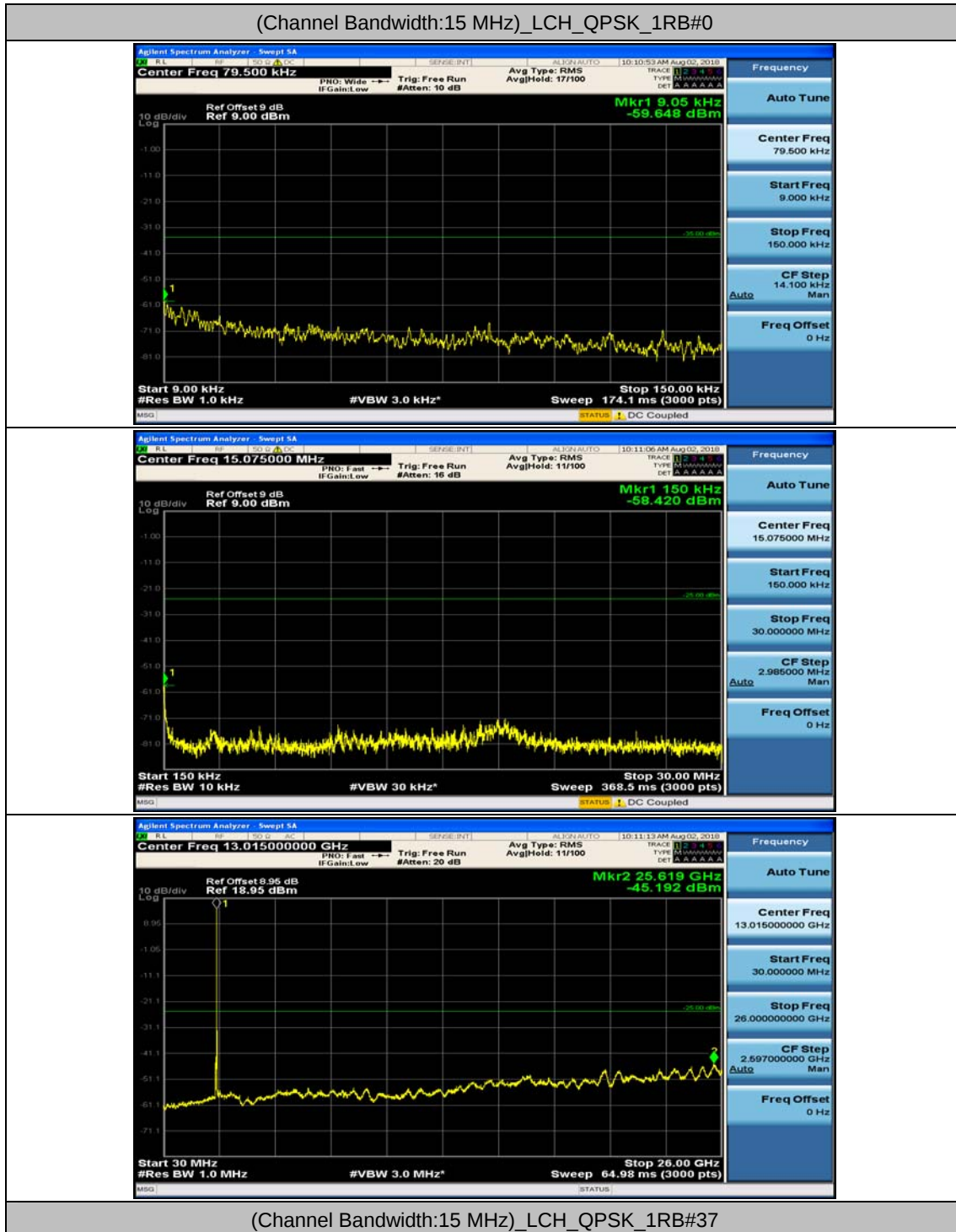


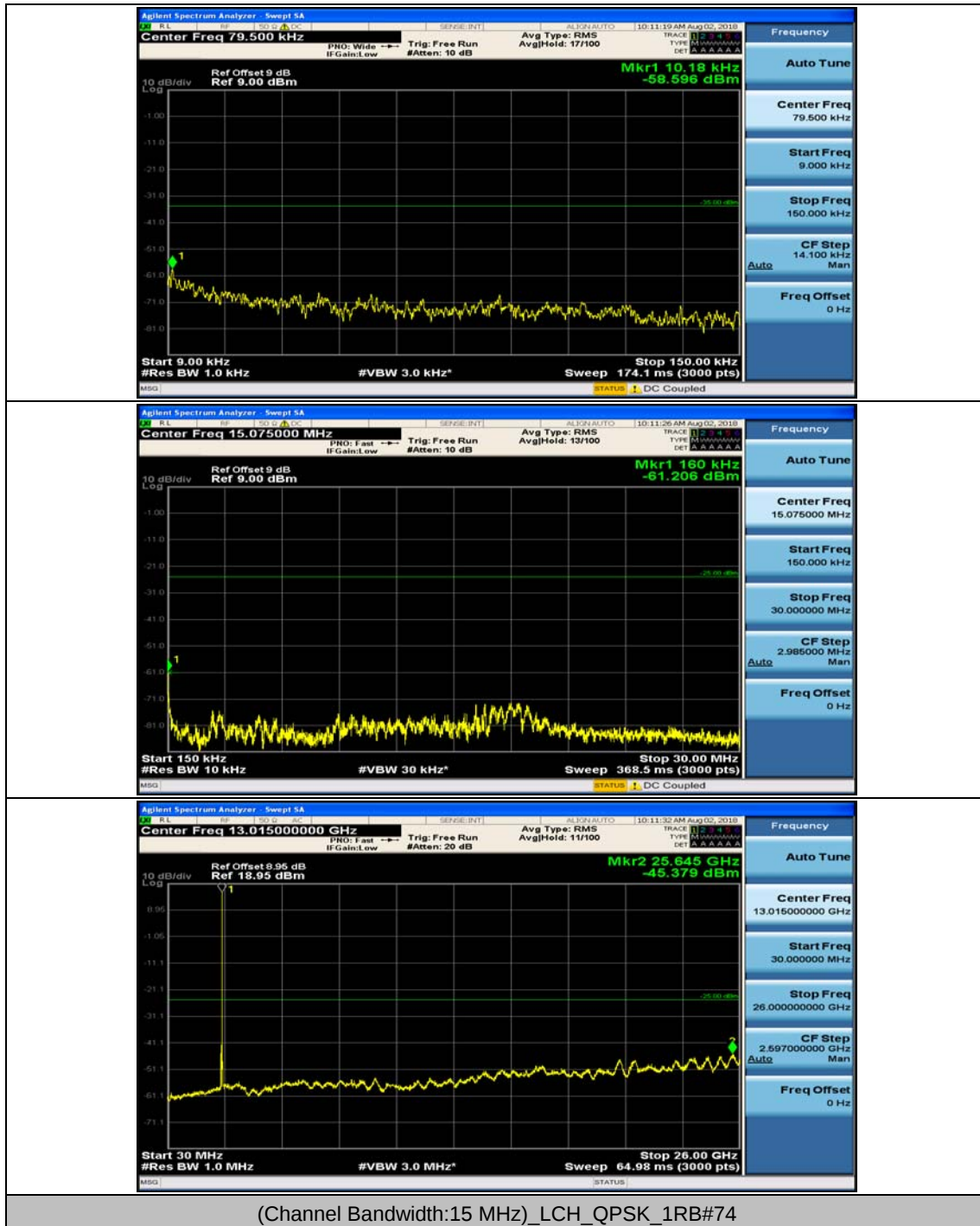
Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#24

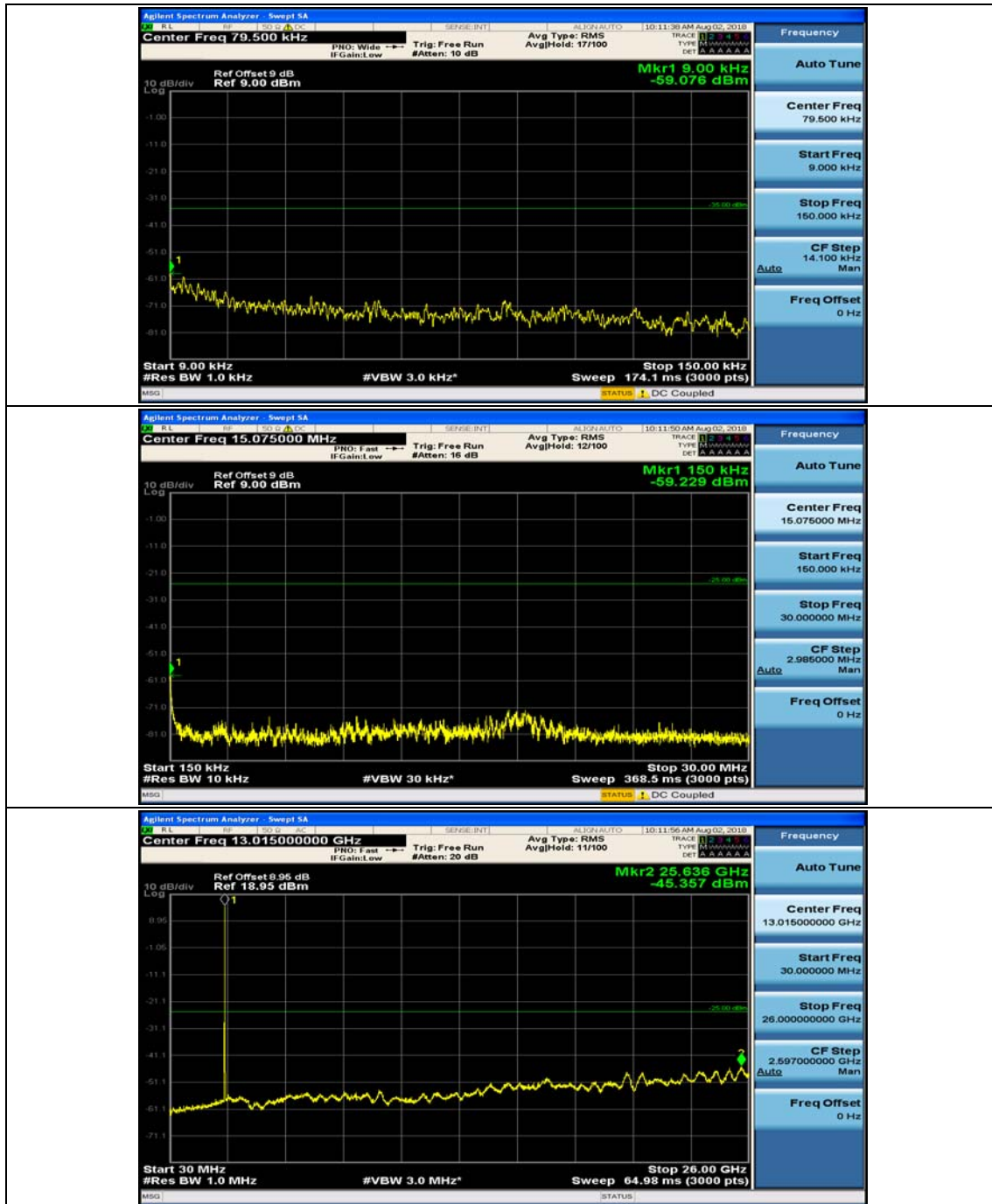




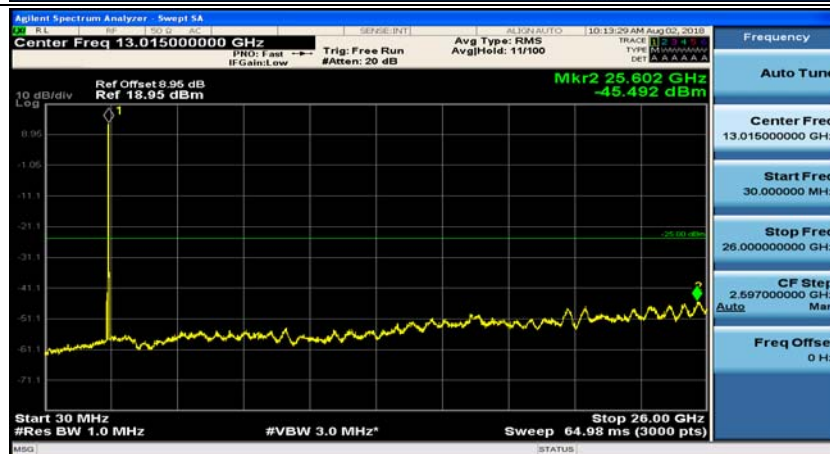
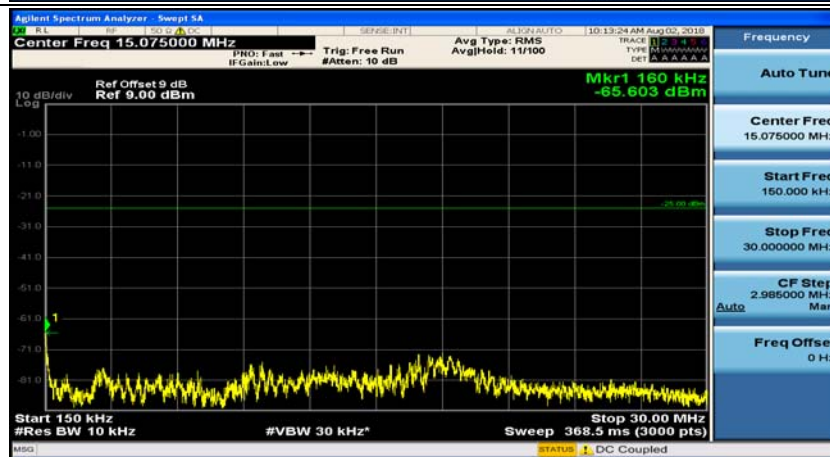
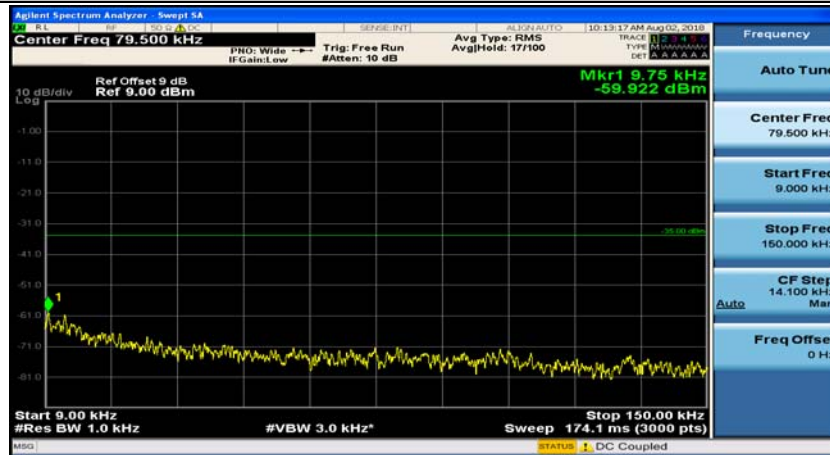
Channel Bandwidth: 15 MHz



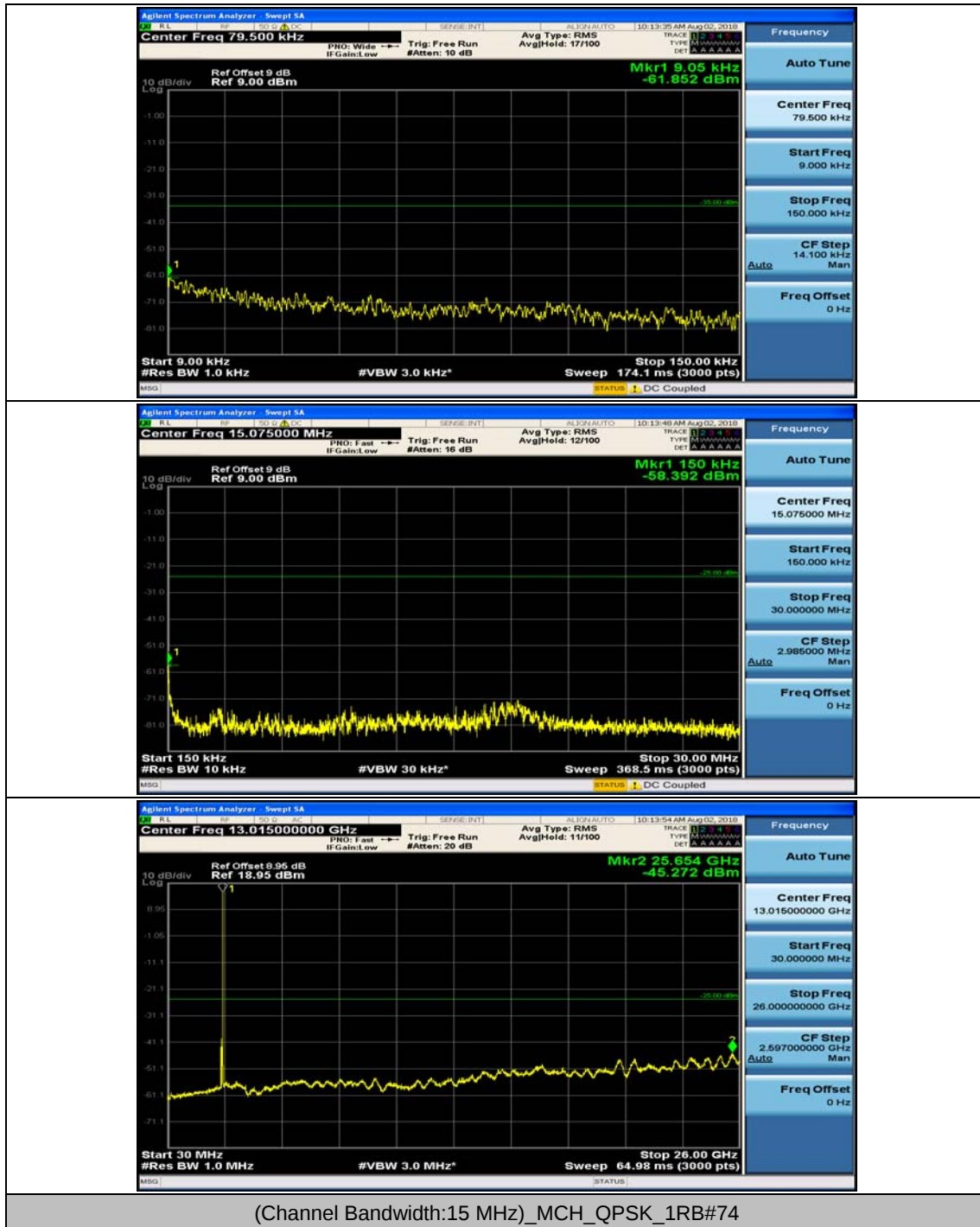


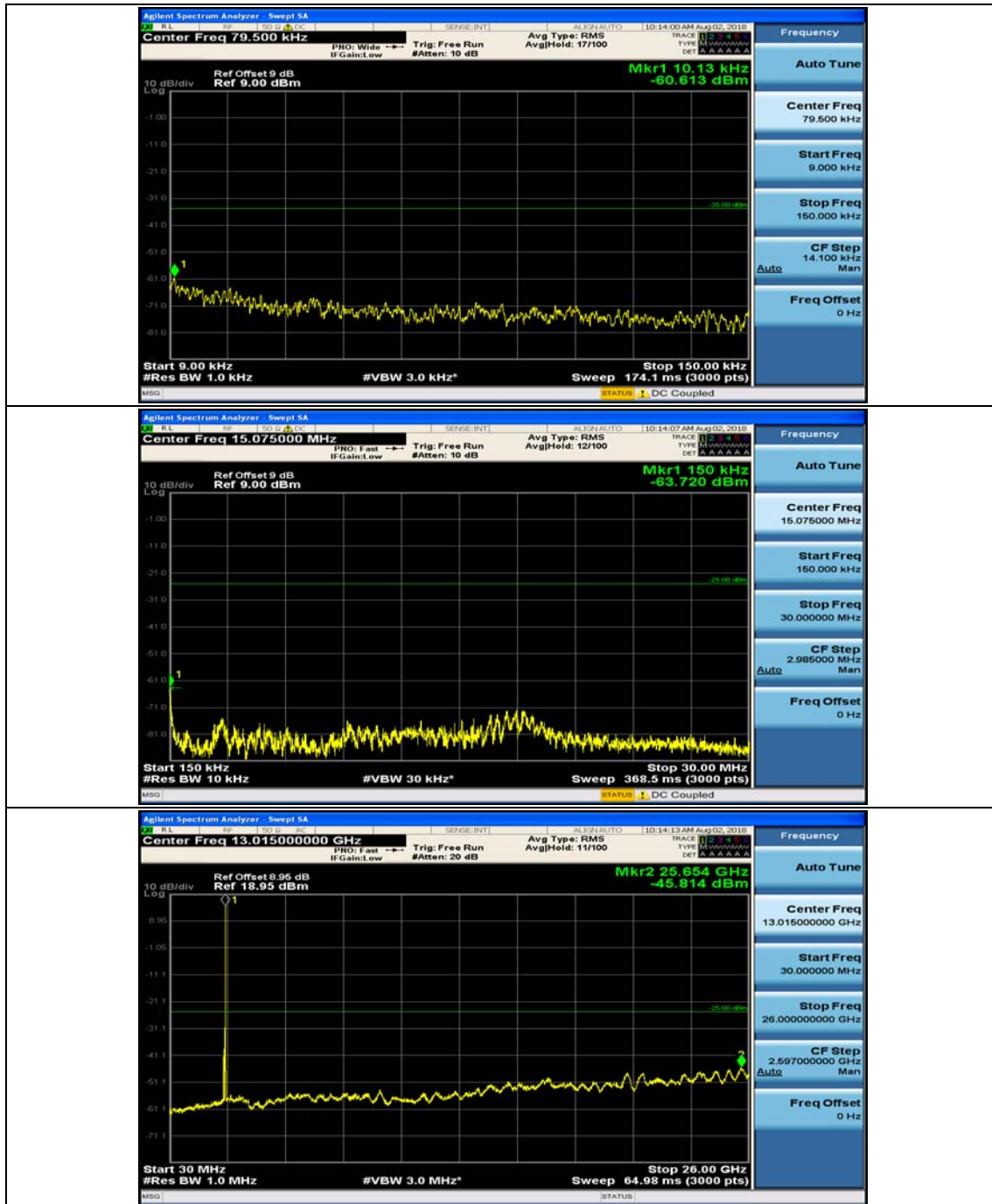


(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#0

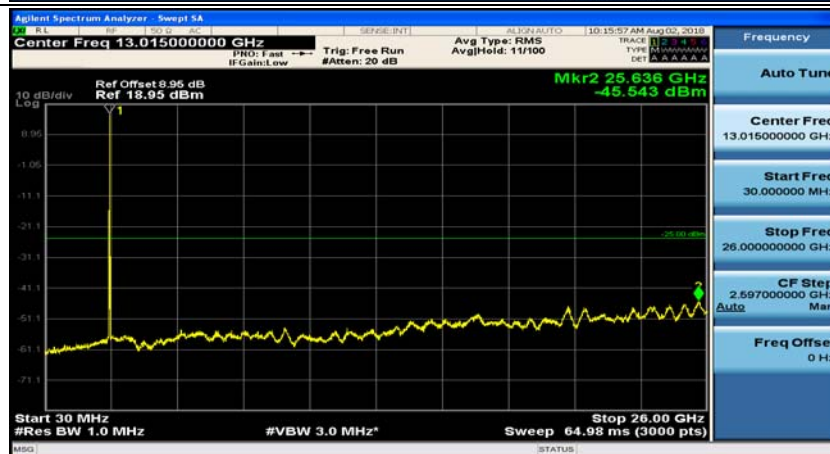
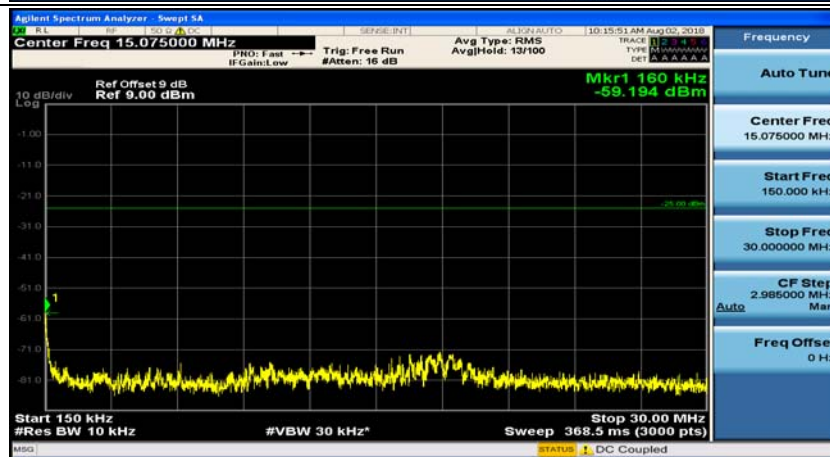
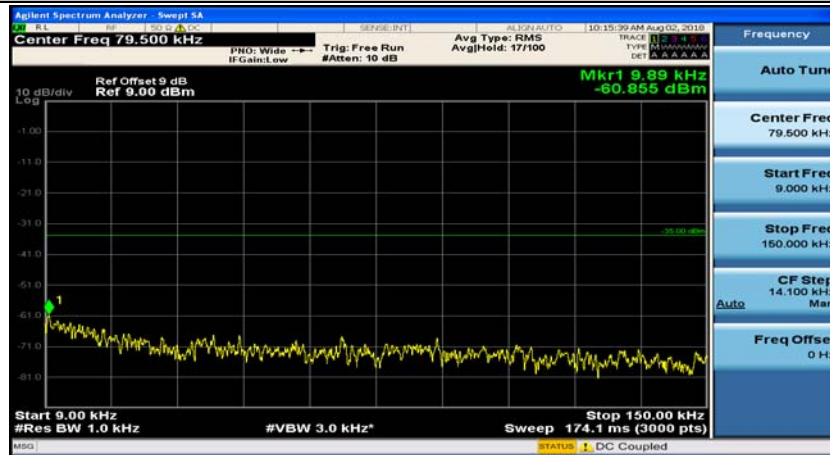


(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#37

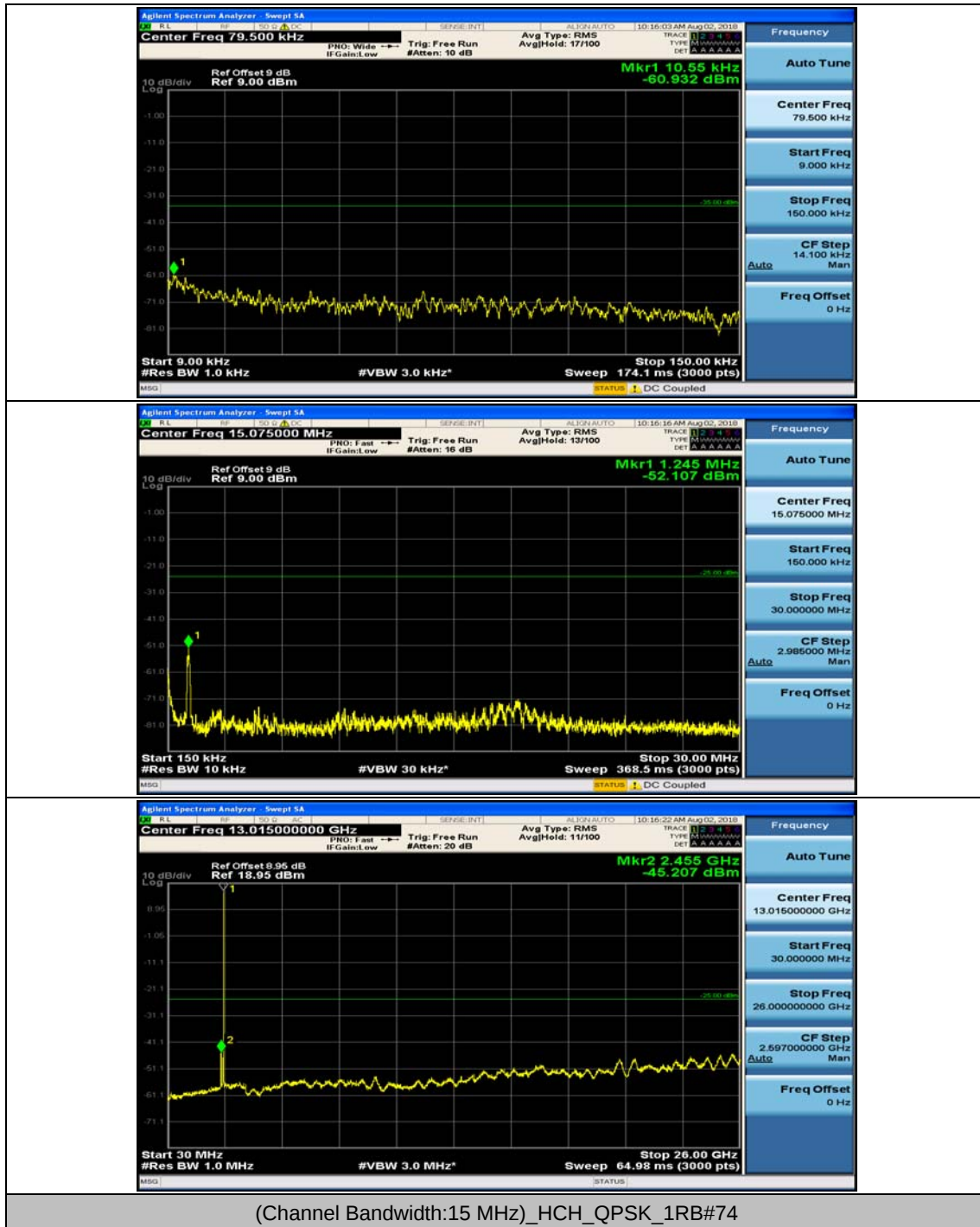


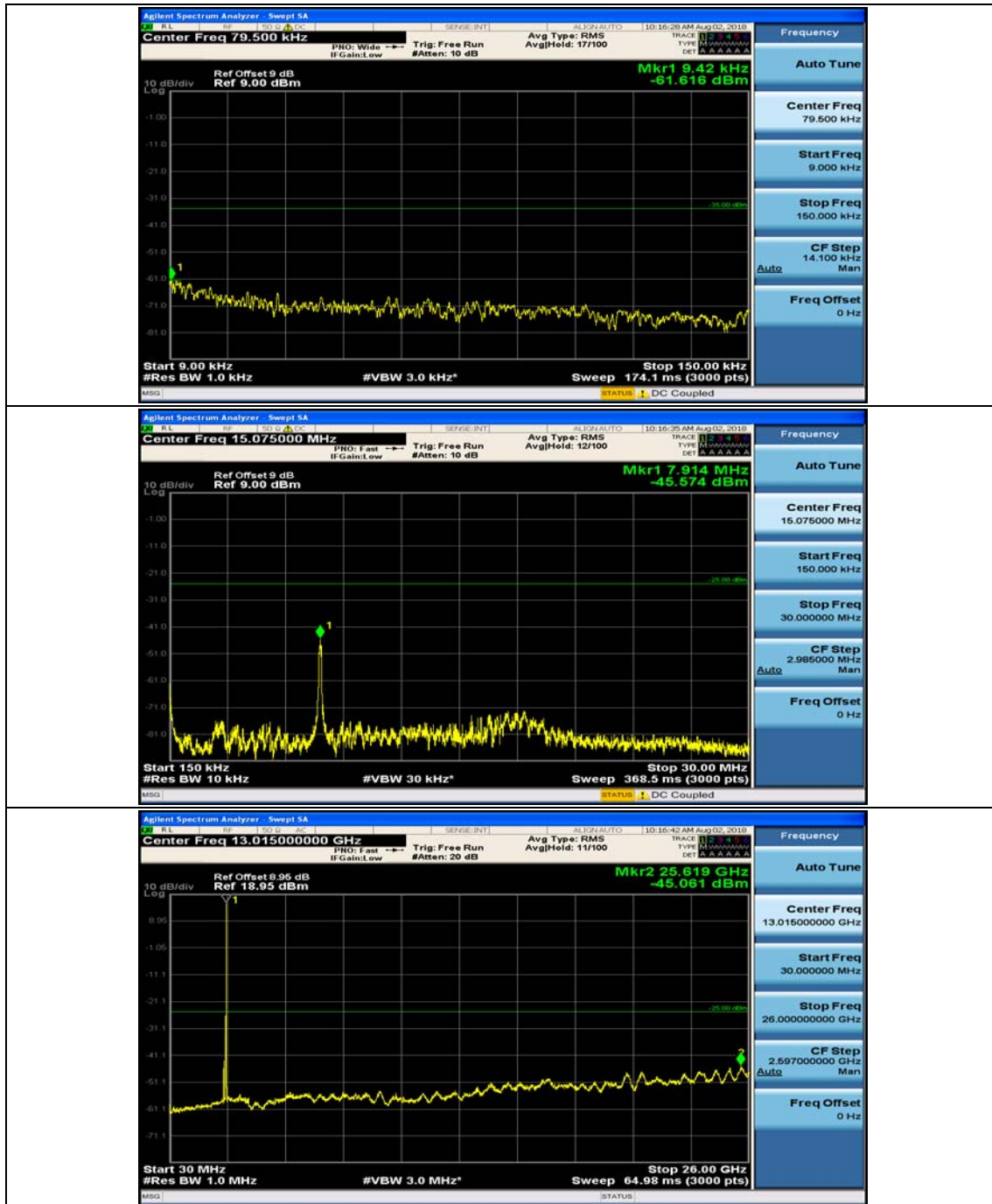


(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#0

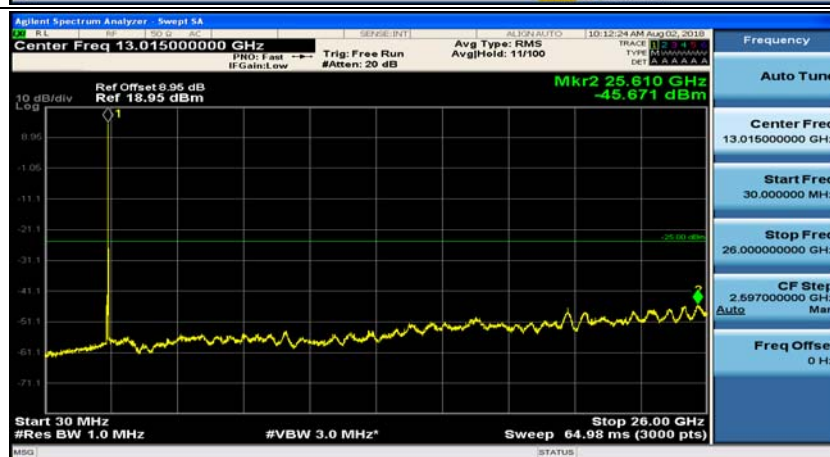
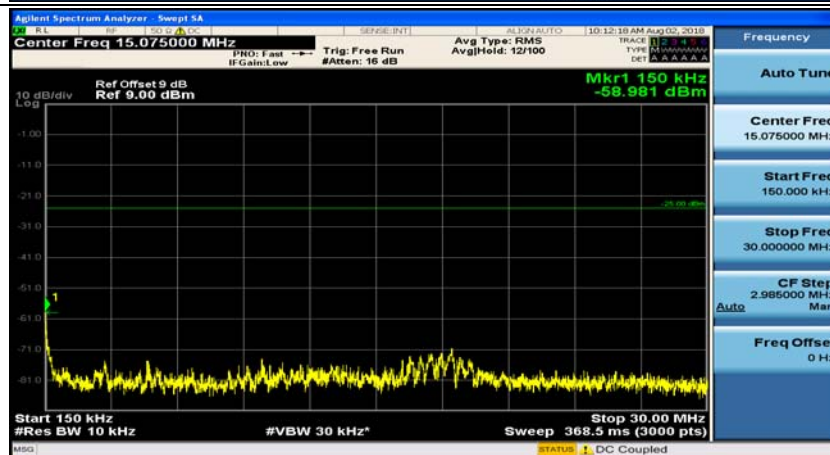
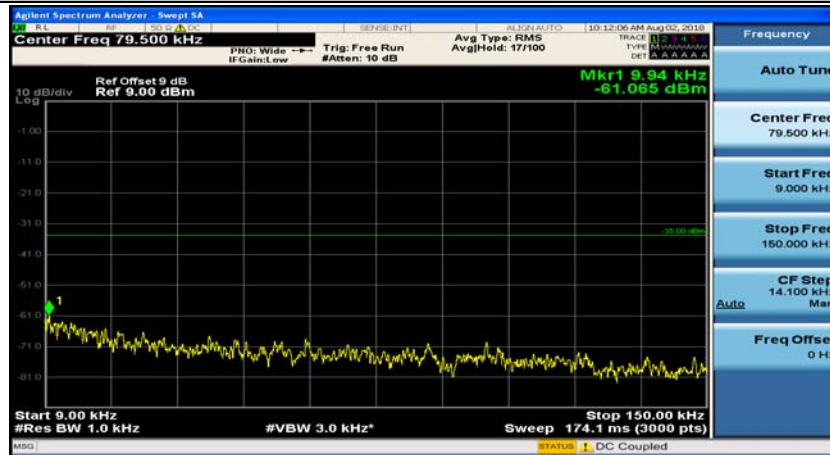


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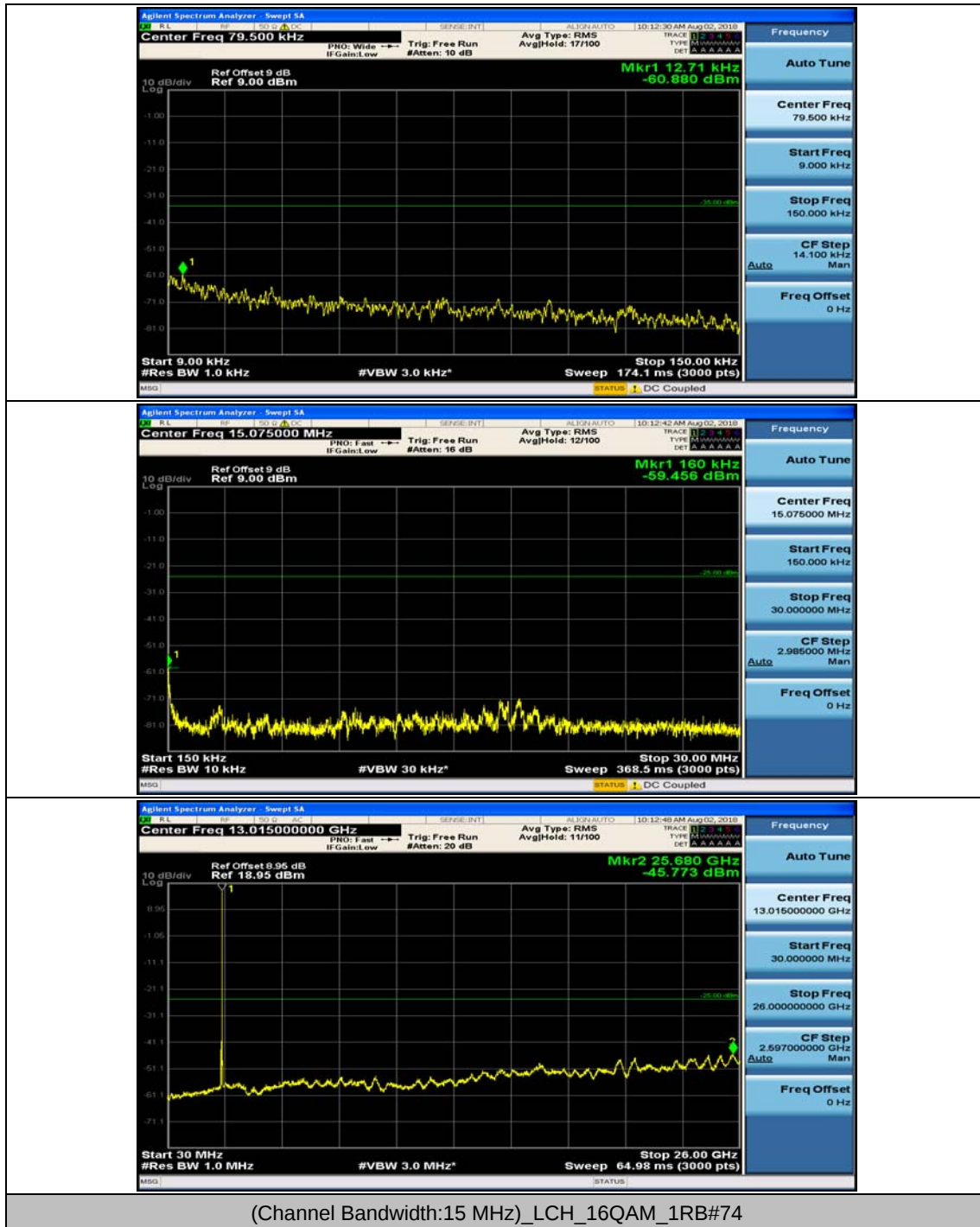


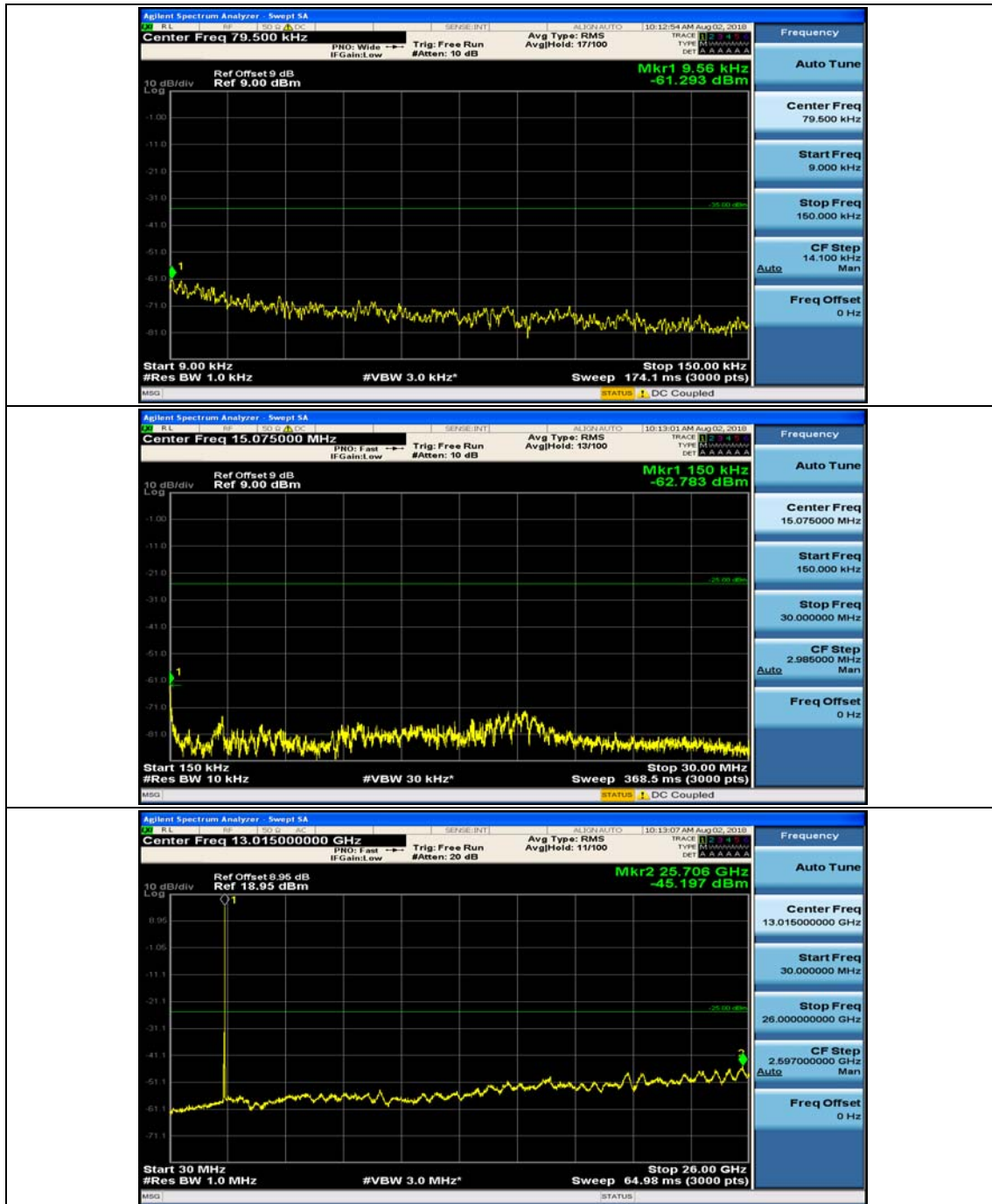


(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#0

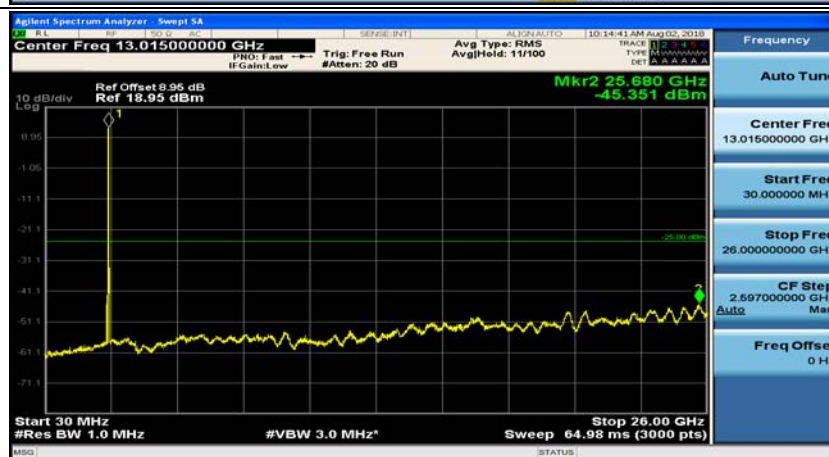
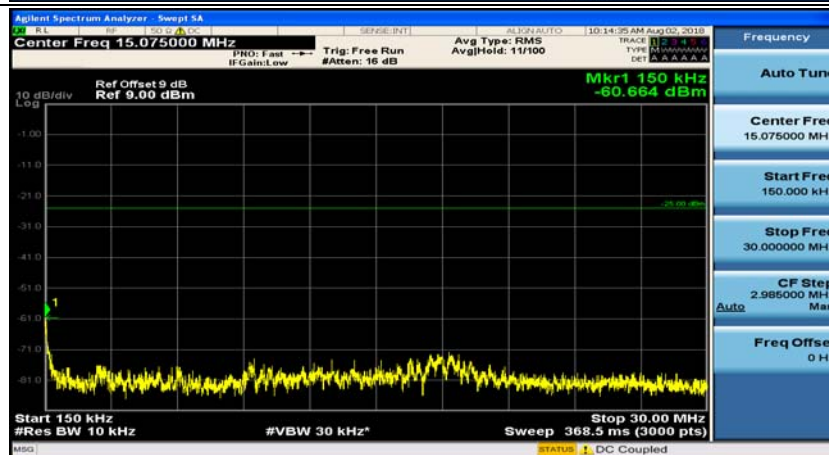
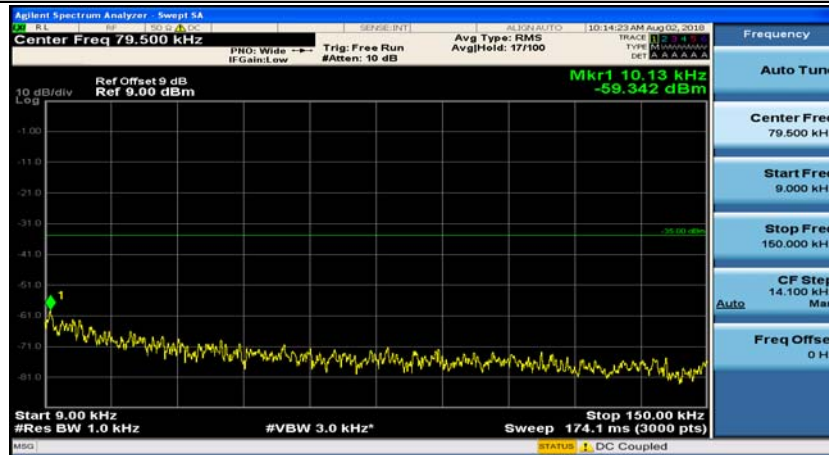


(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#37

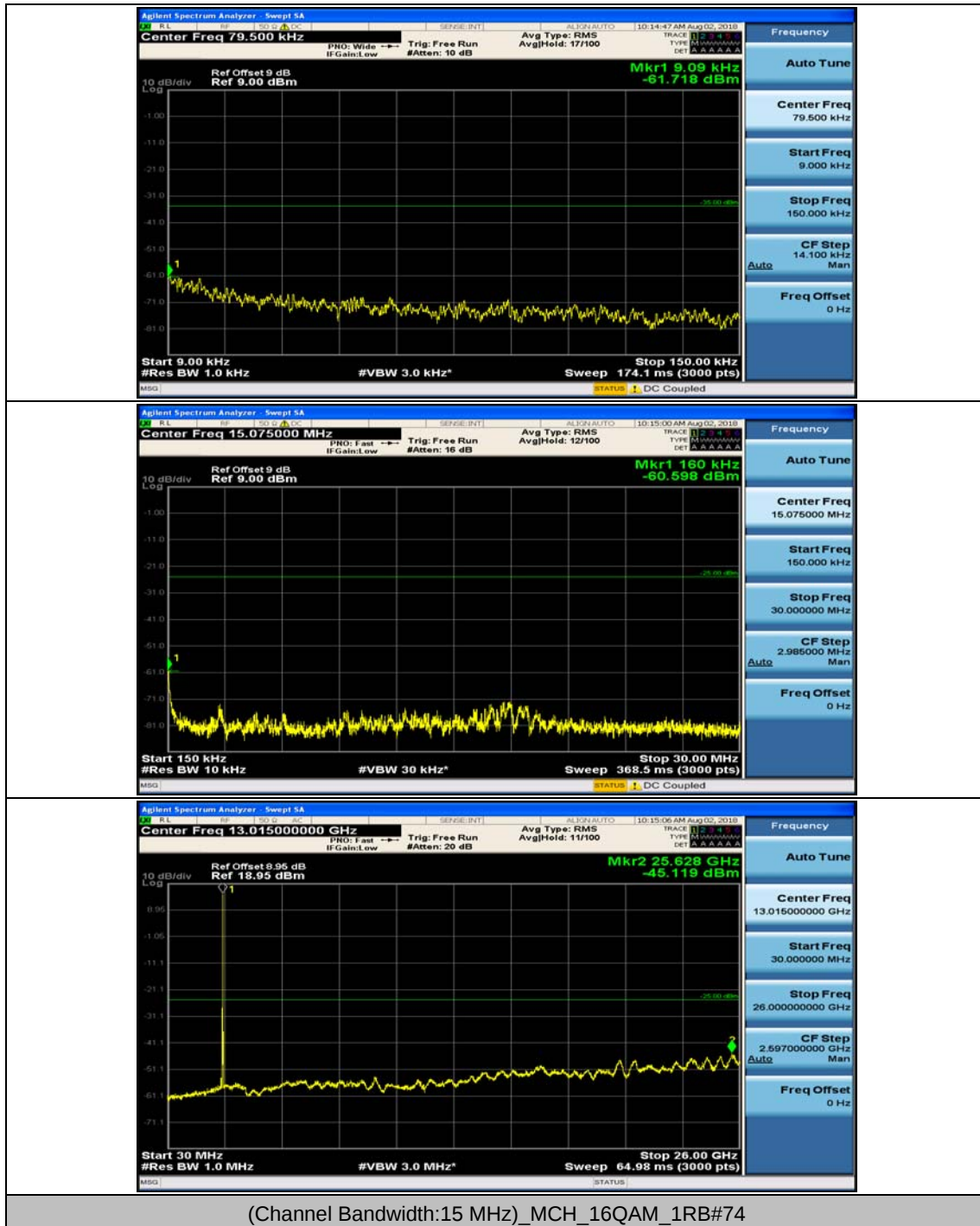


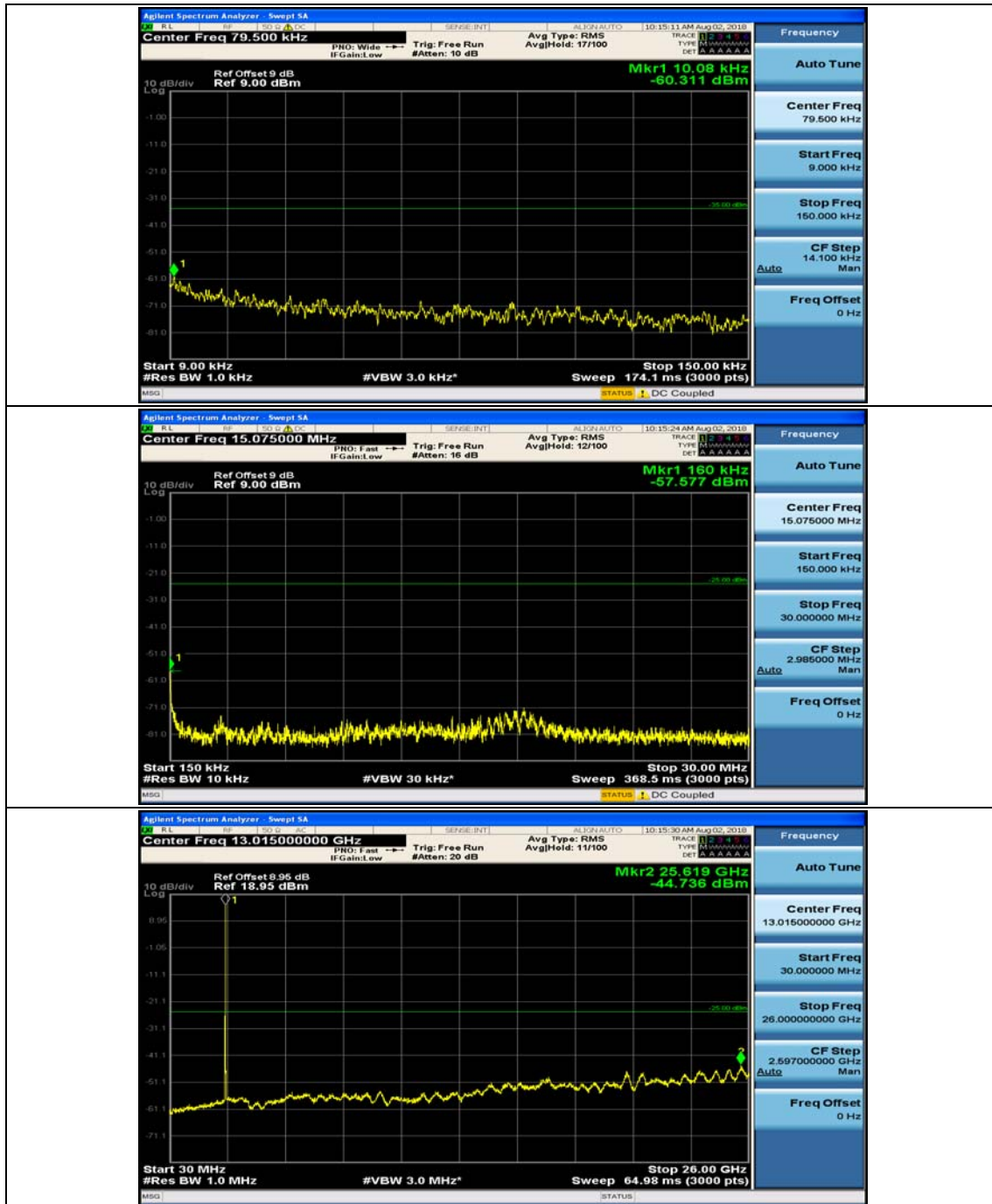


(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#0

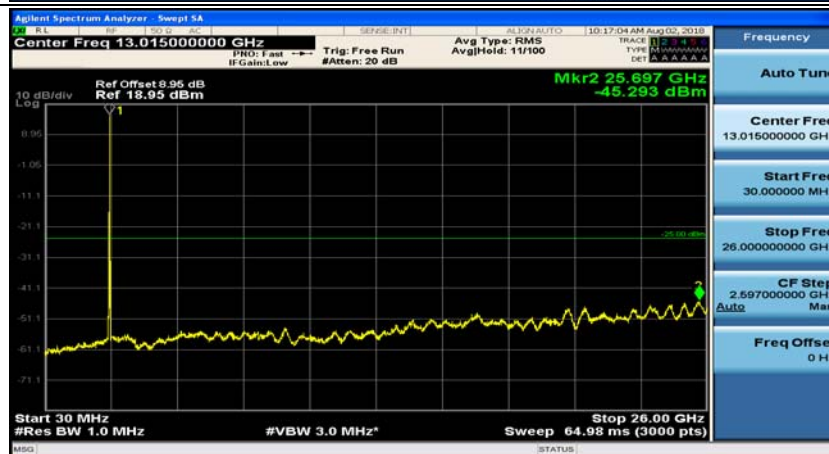
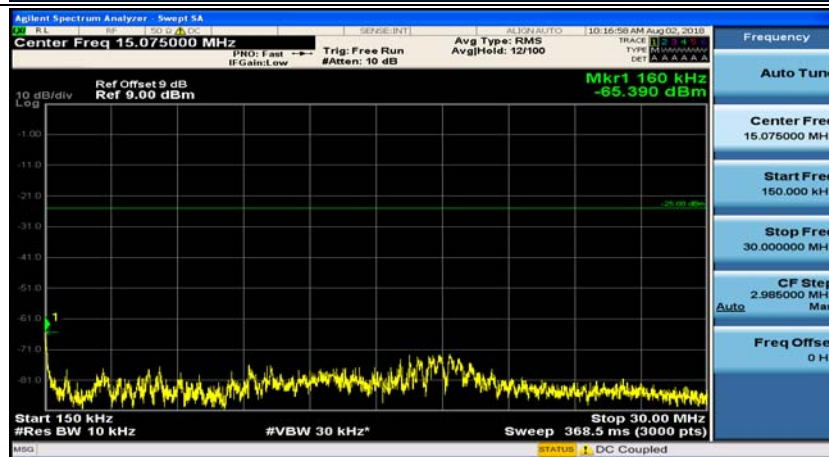
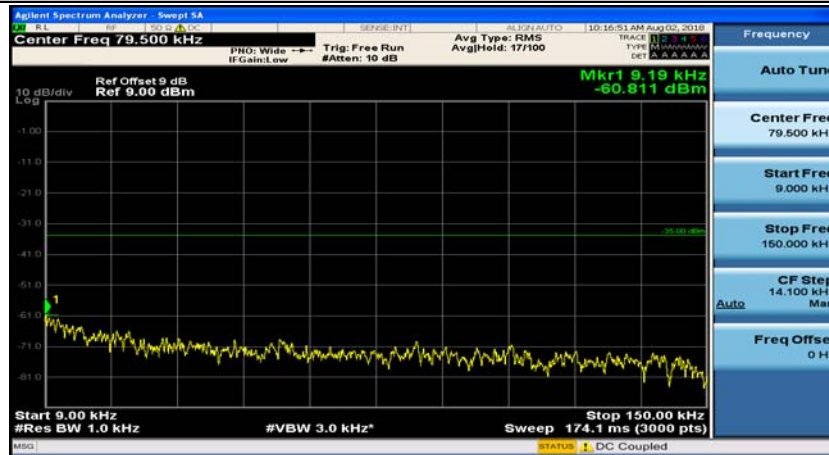


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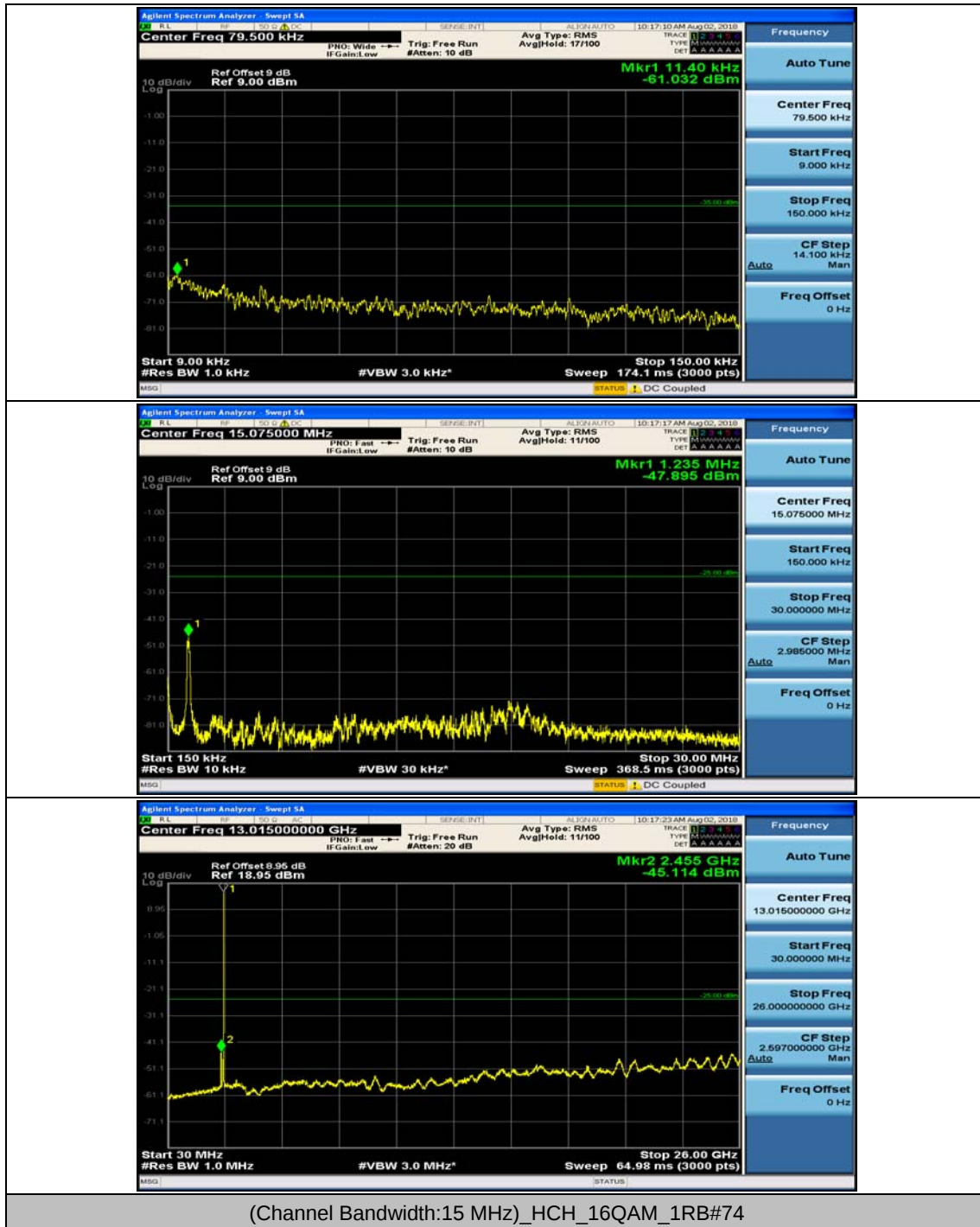


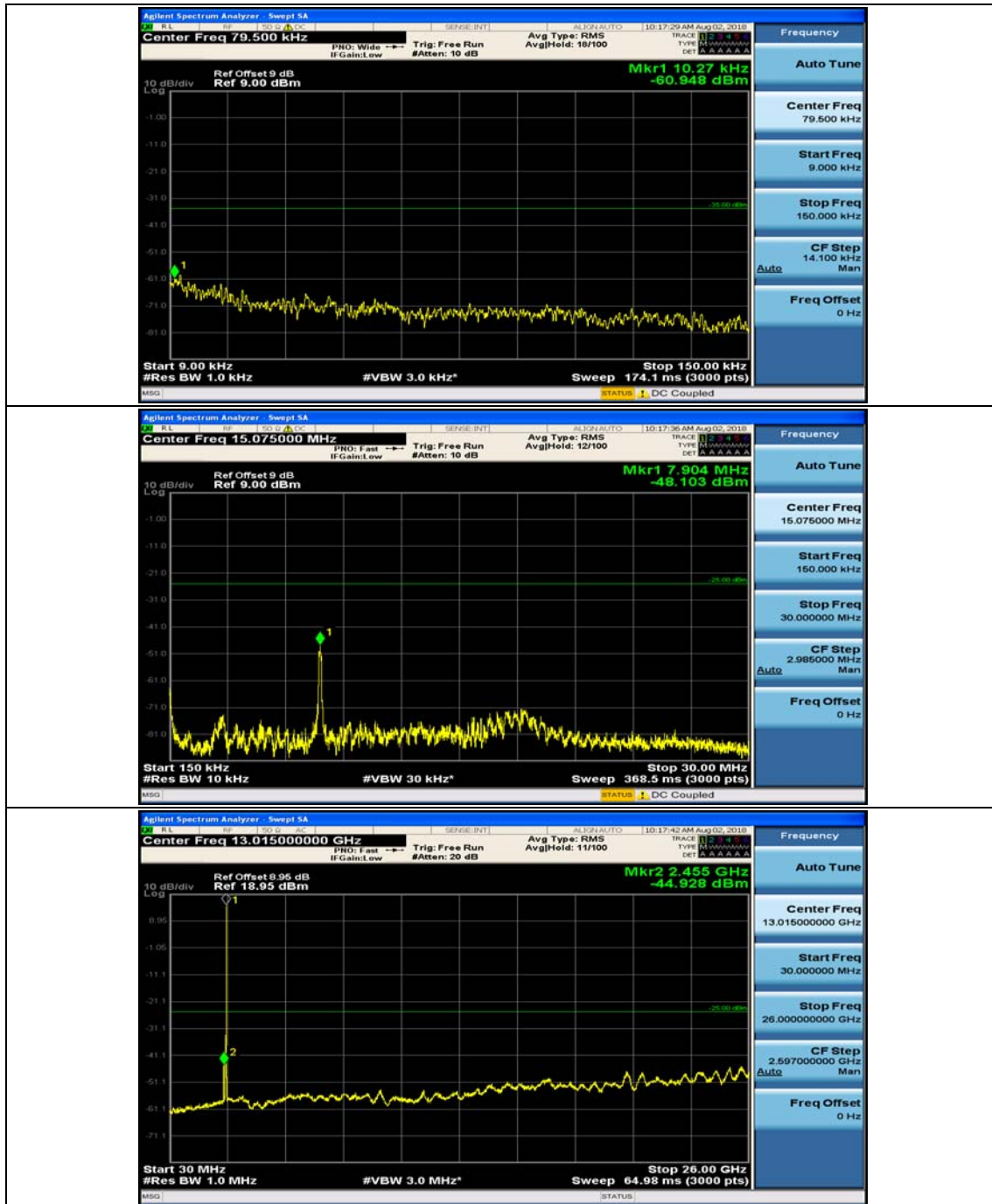


(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#0

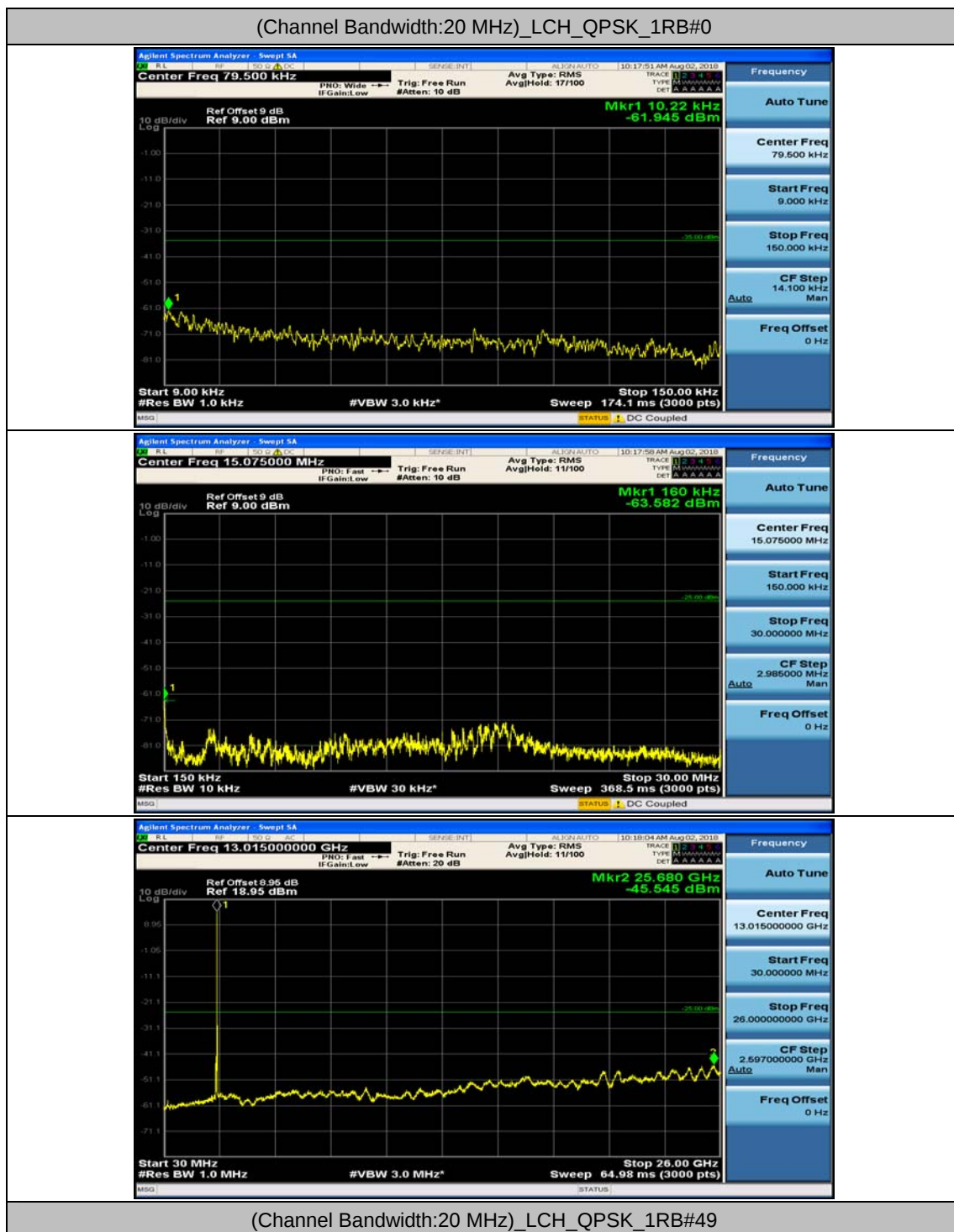


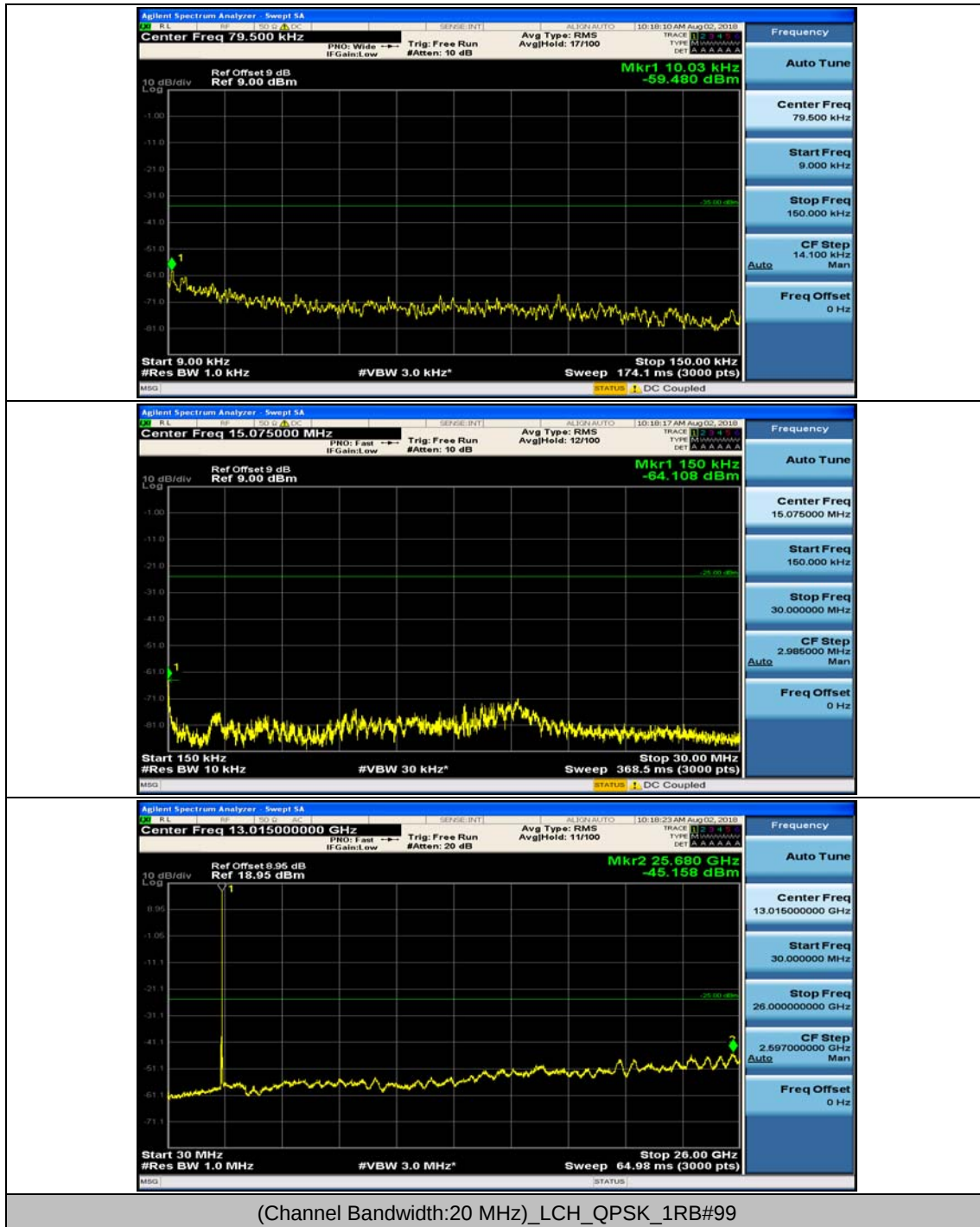
(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#37

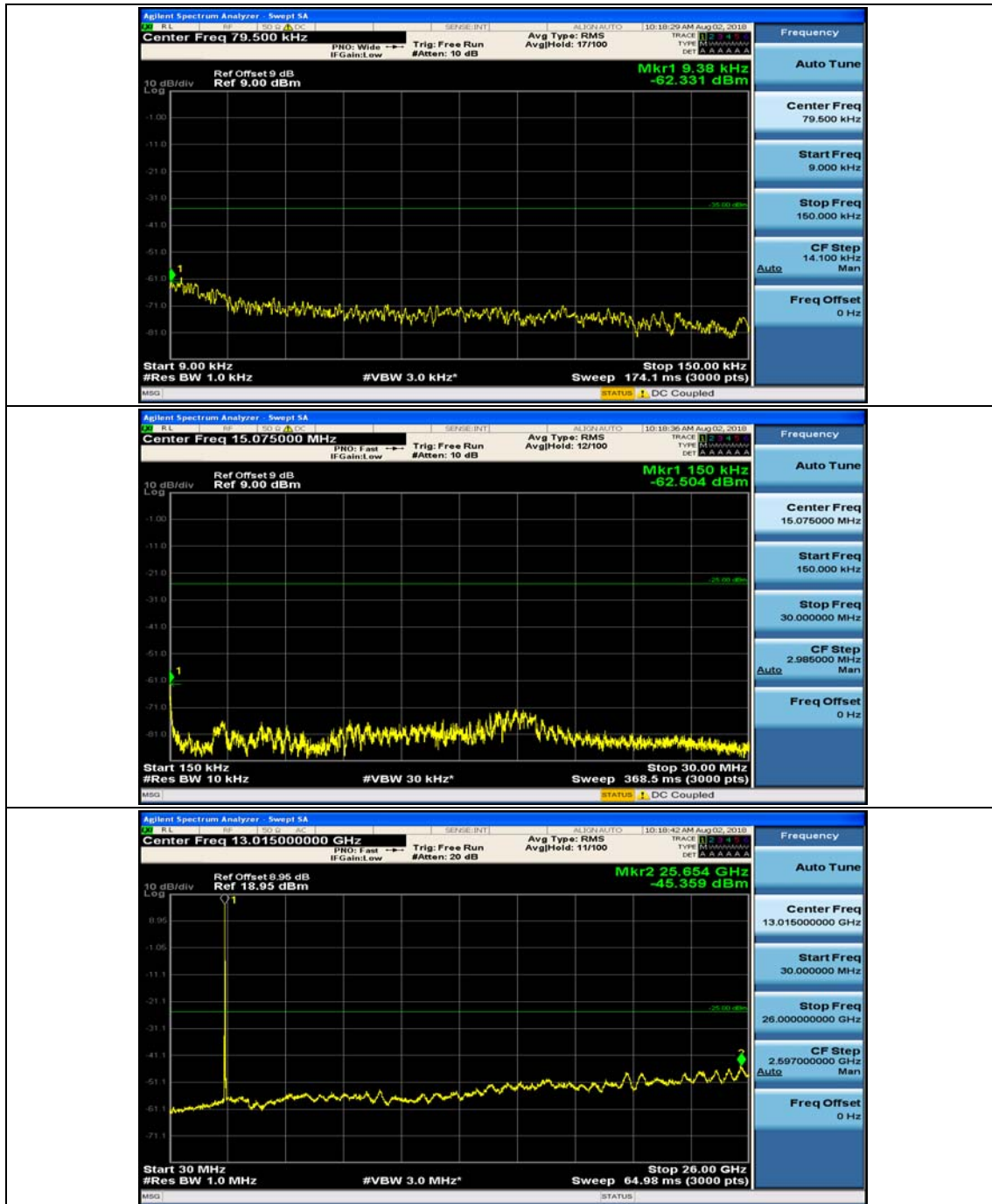




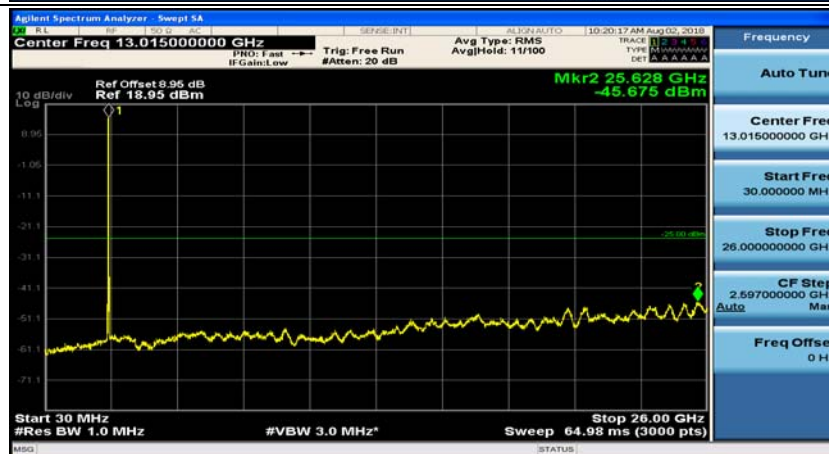
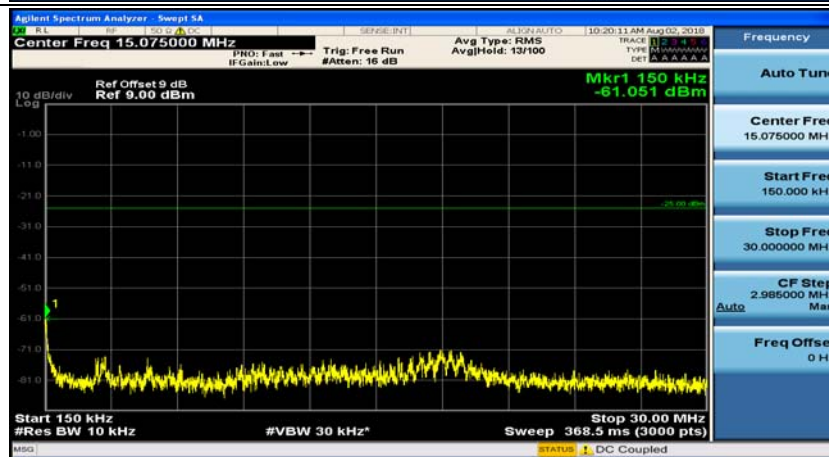
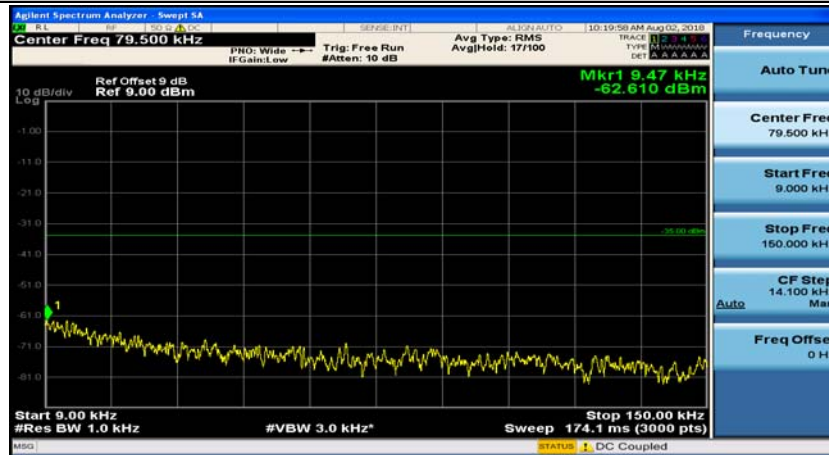
Channel Bandwidth: 20 MHz



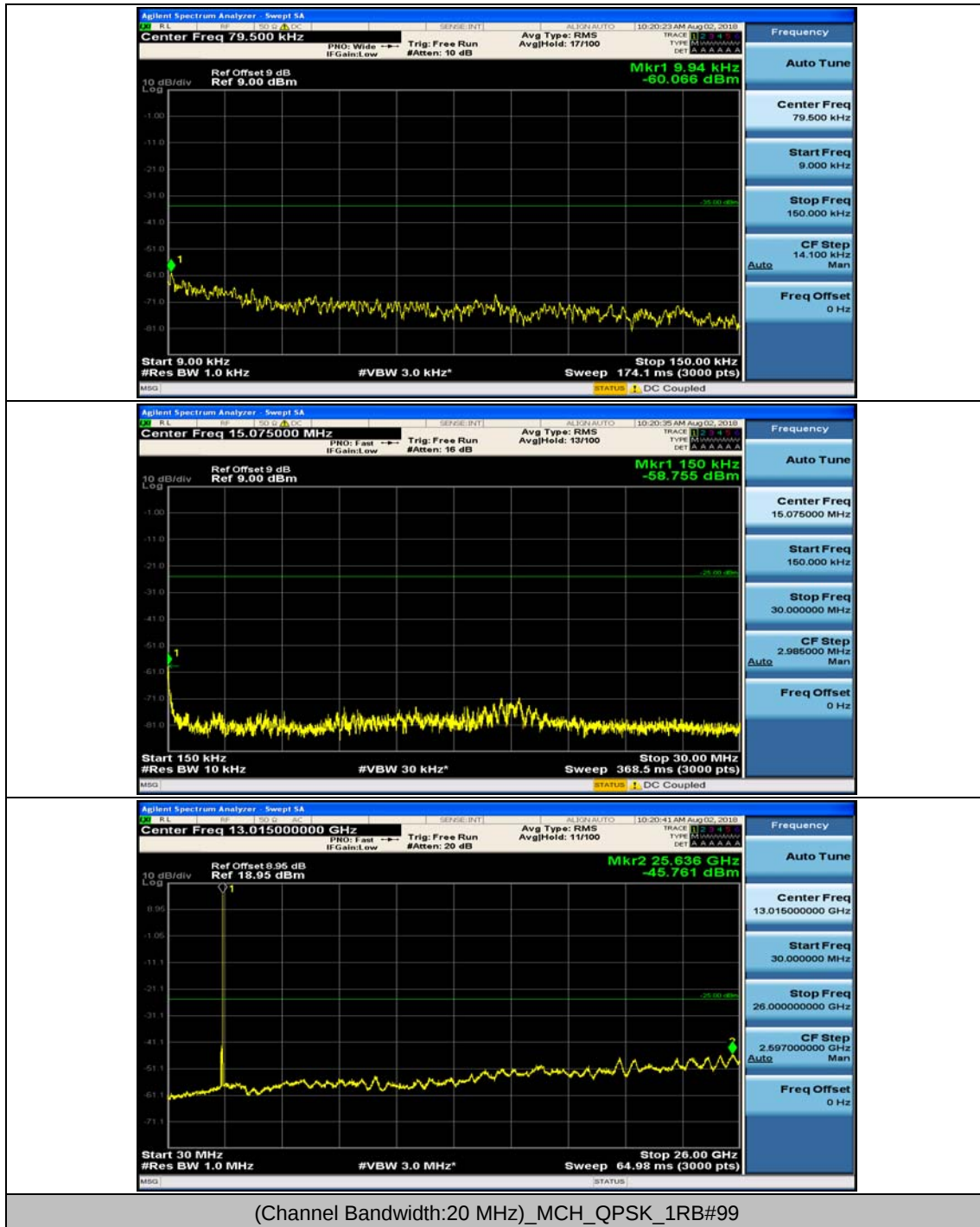


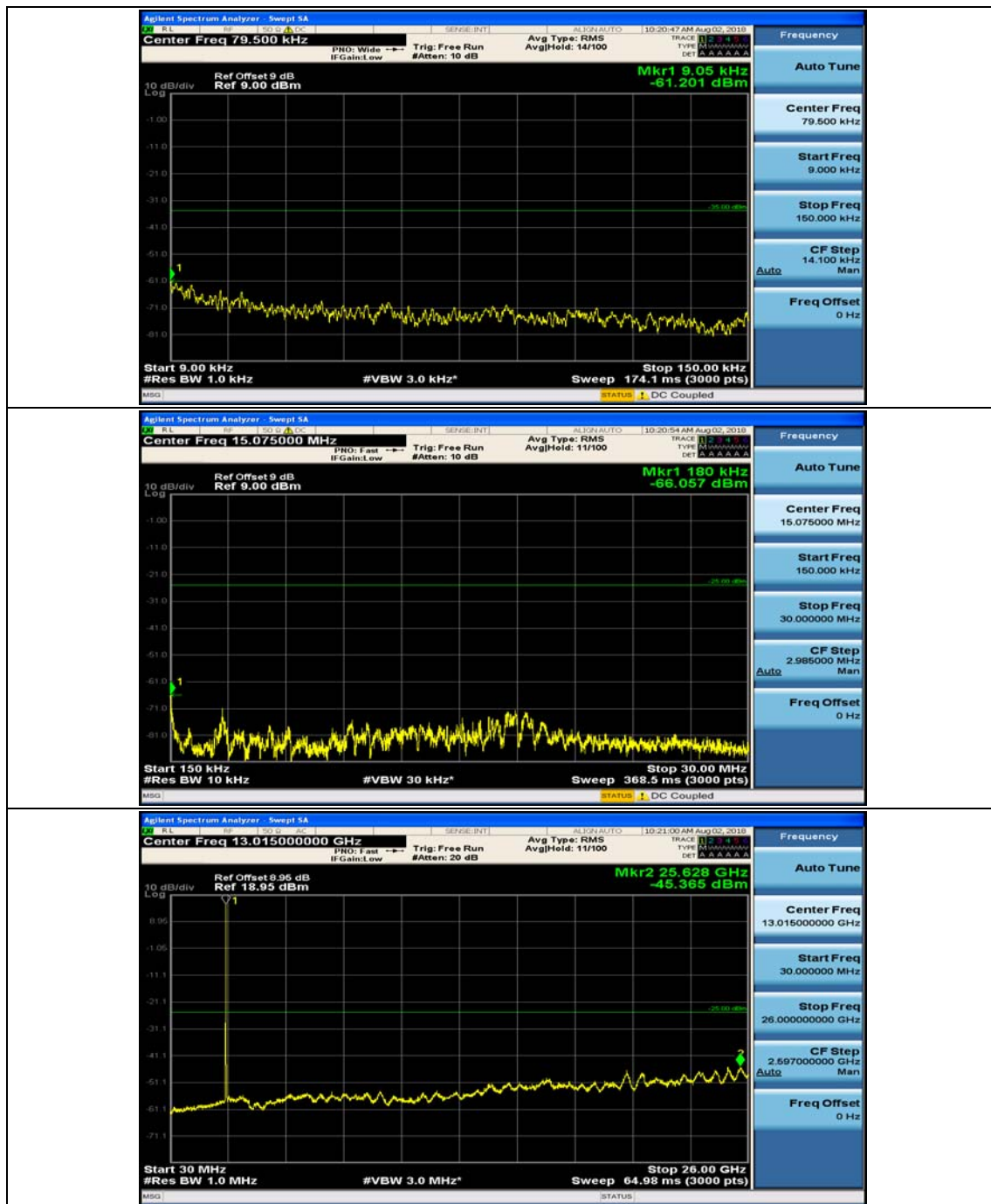


(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#0

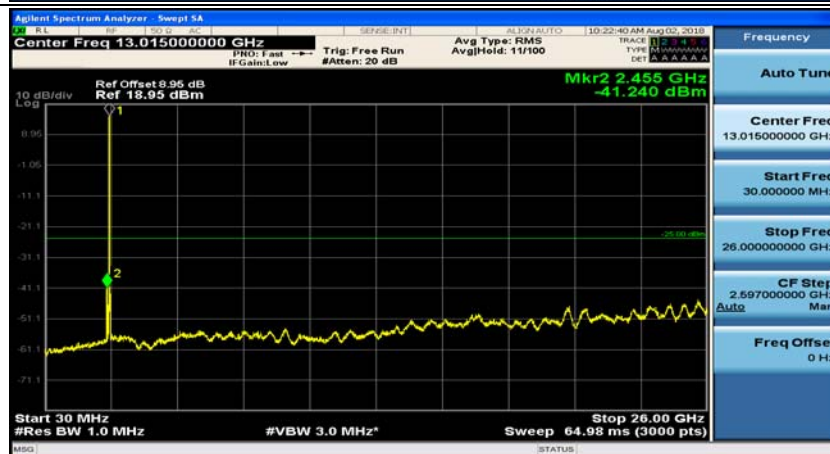
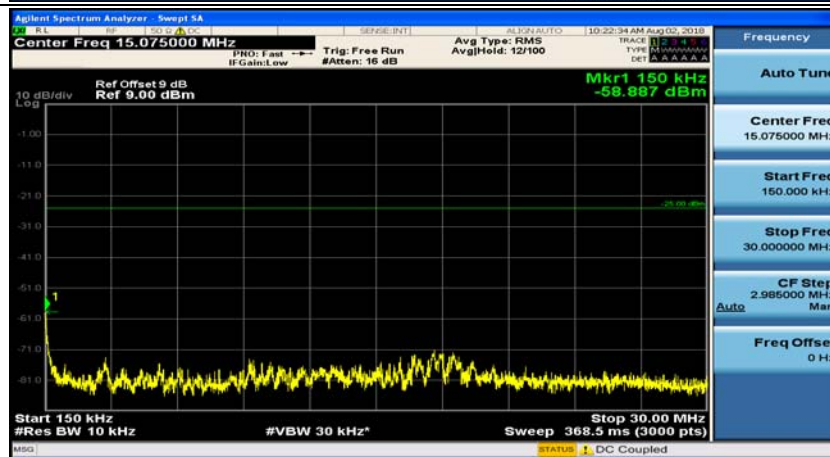
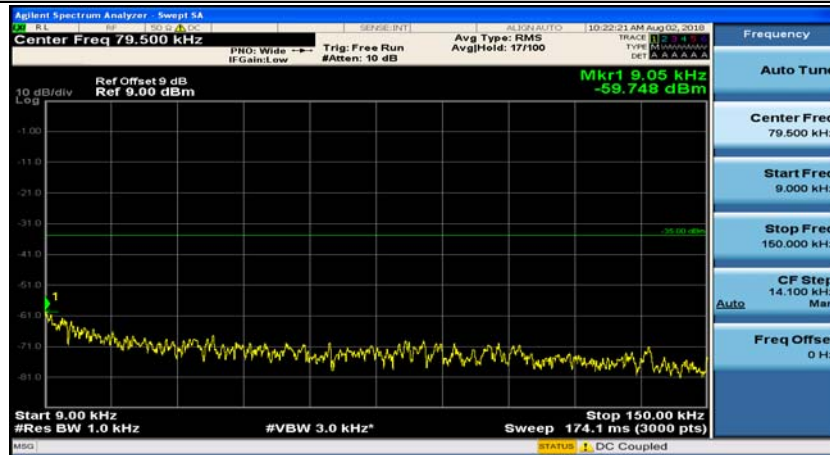


(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#49

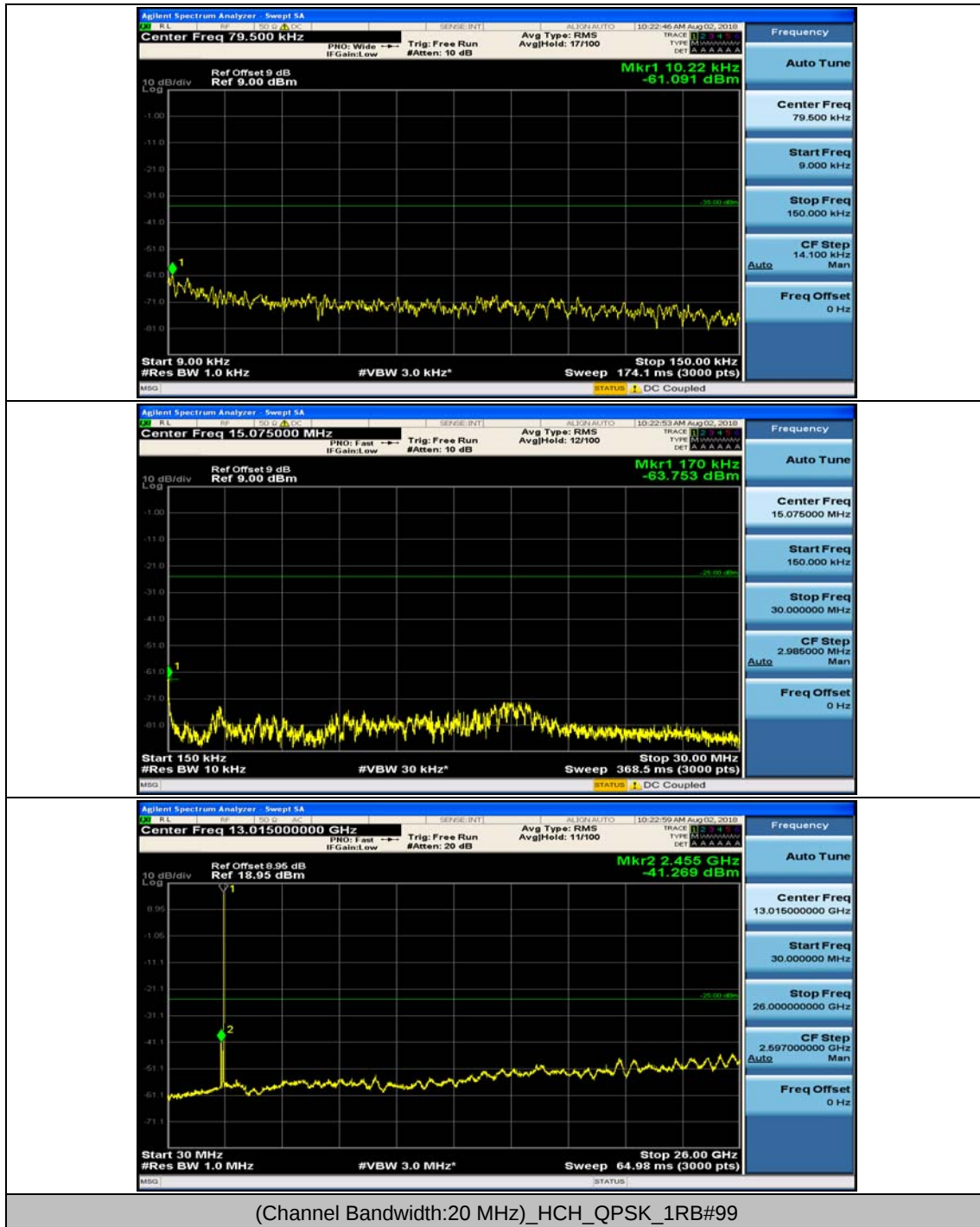


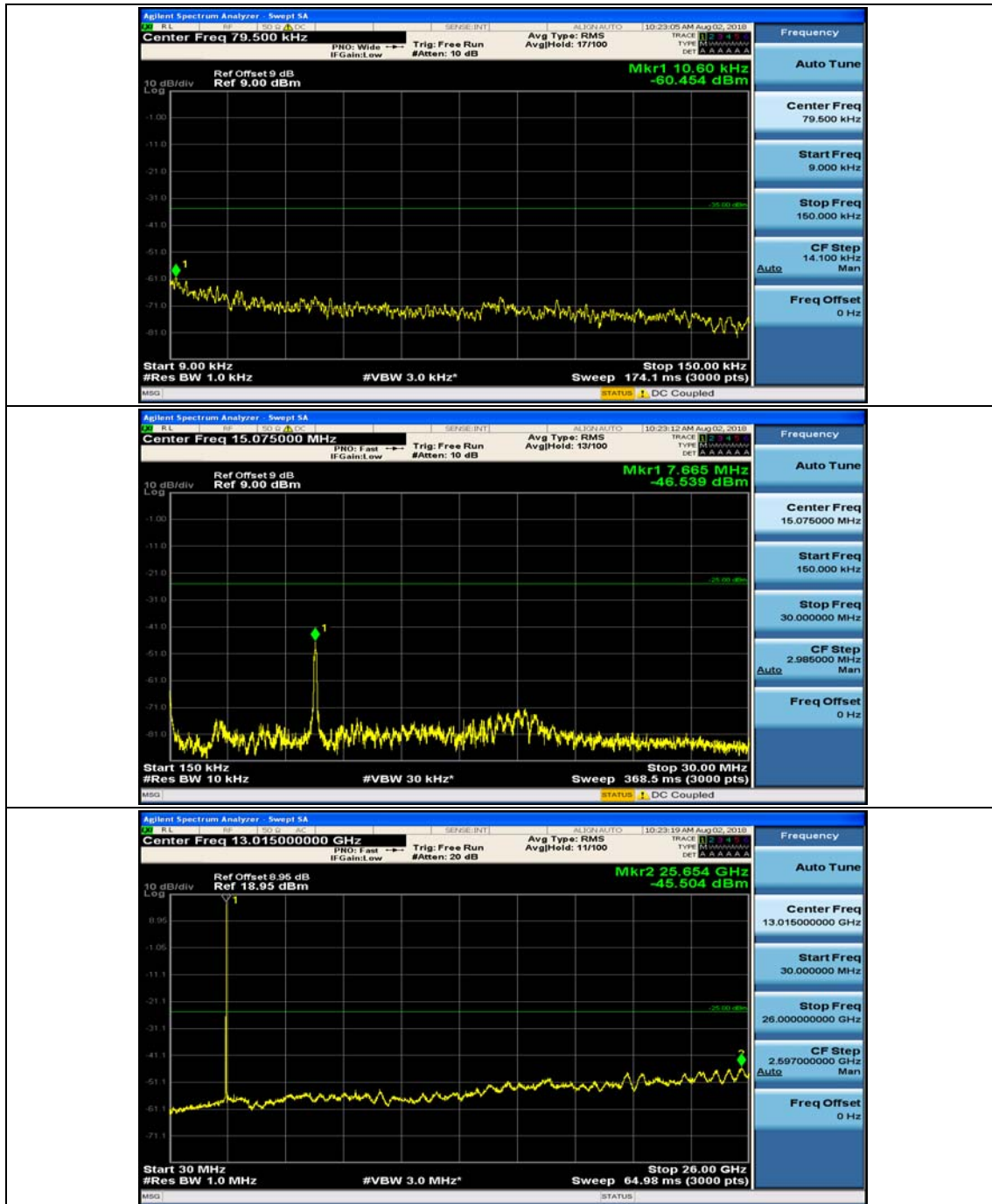


(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#0

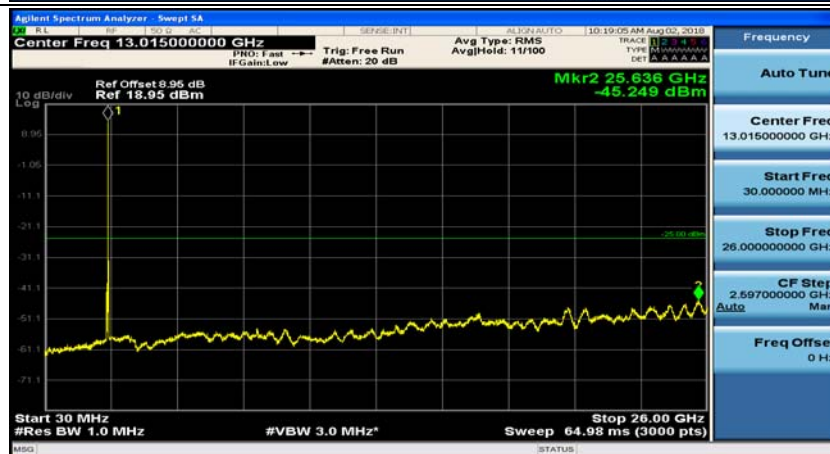
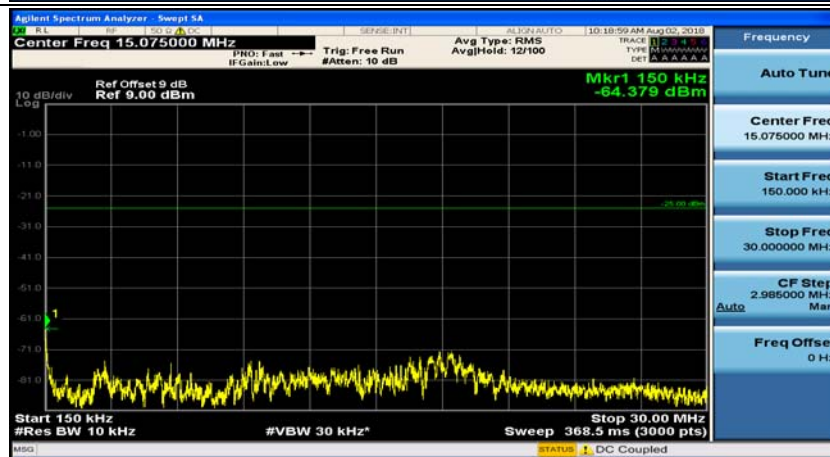
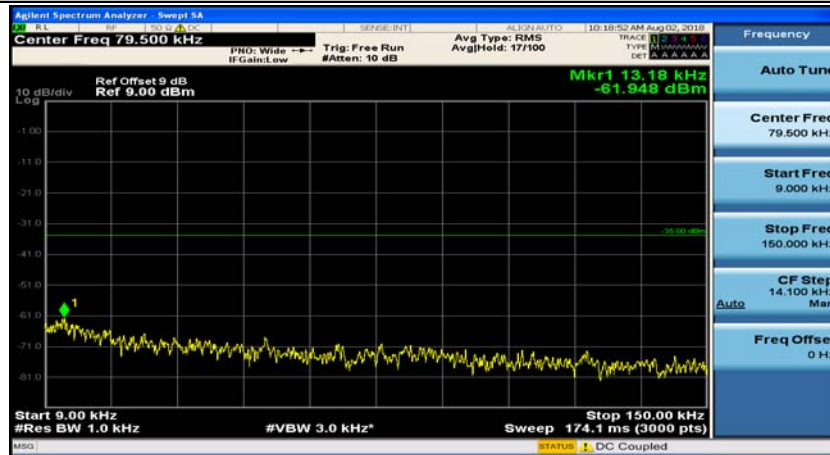


(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#49

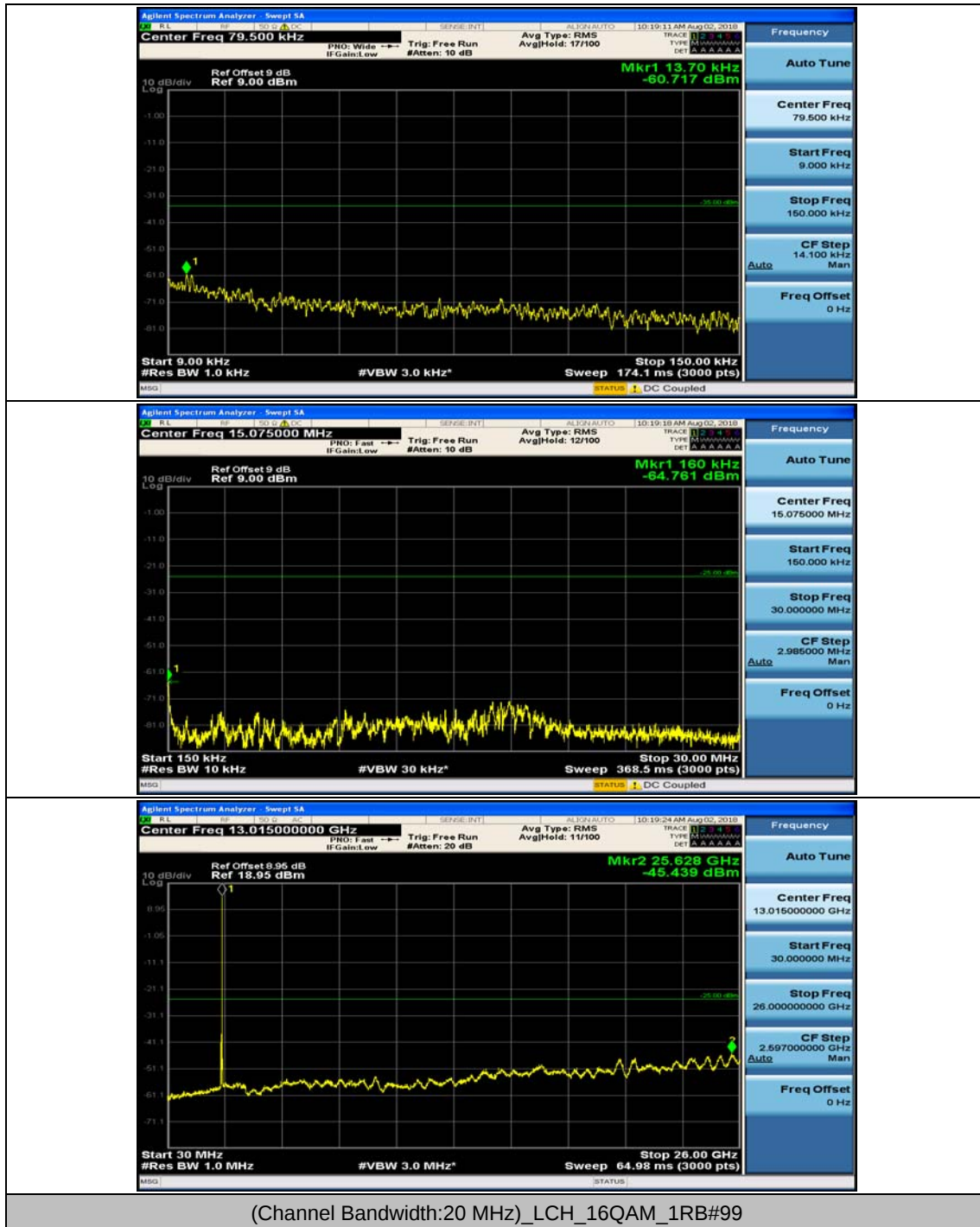


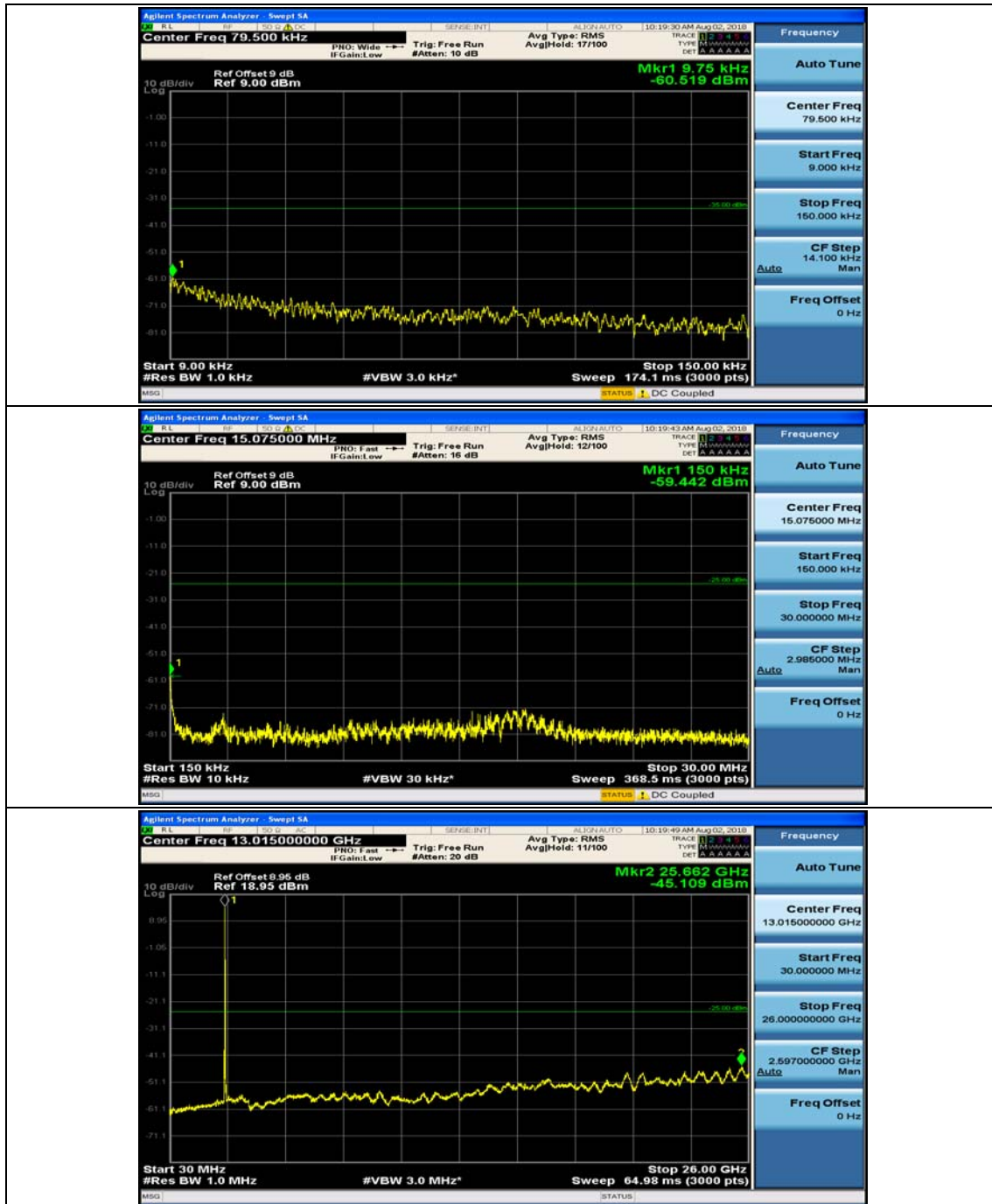


(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#0

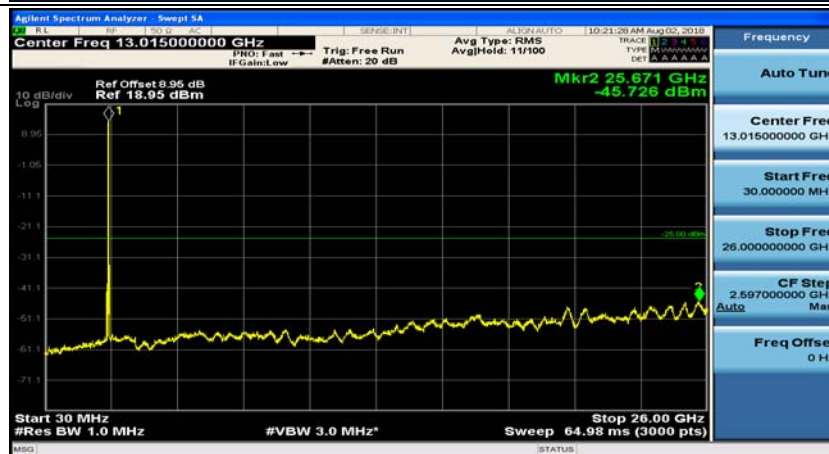
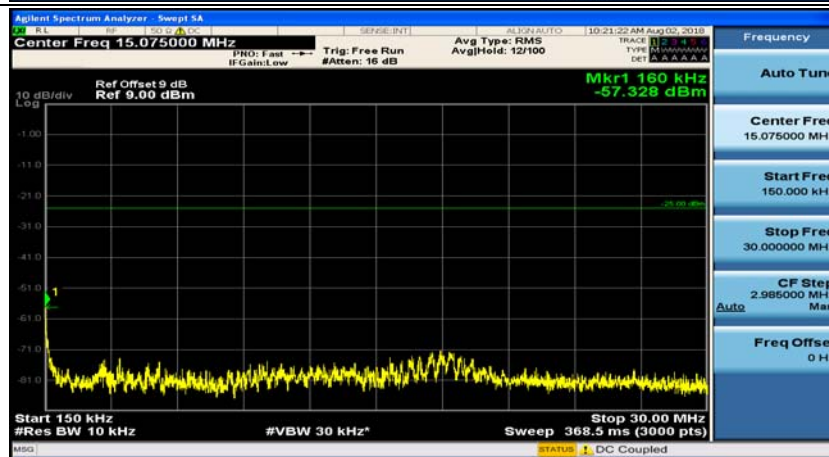
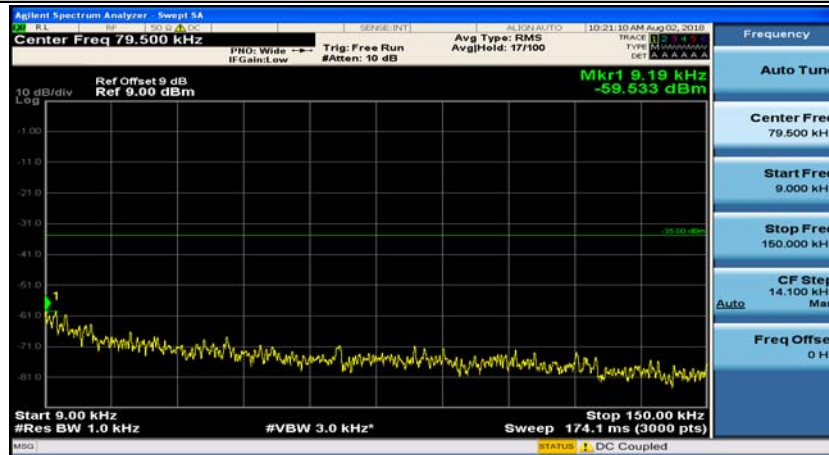


(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#49

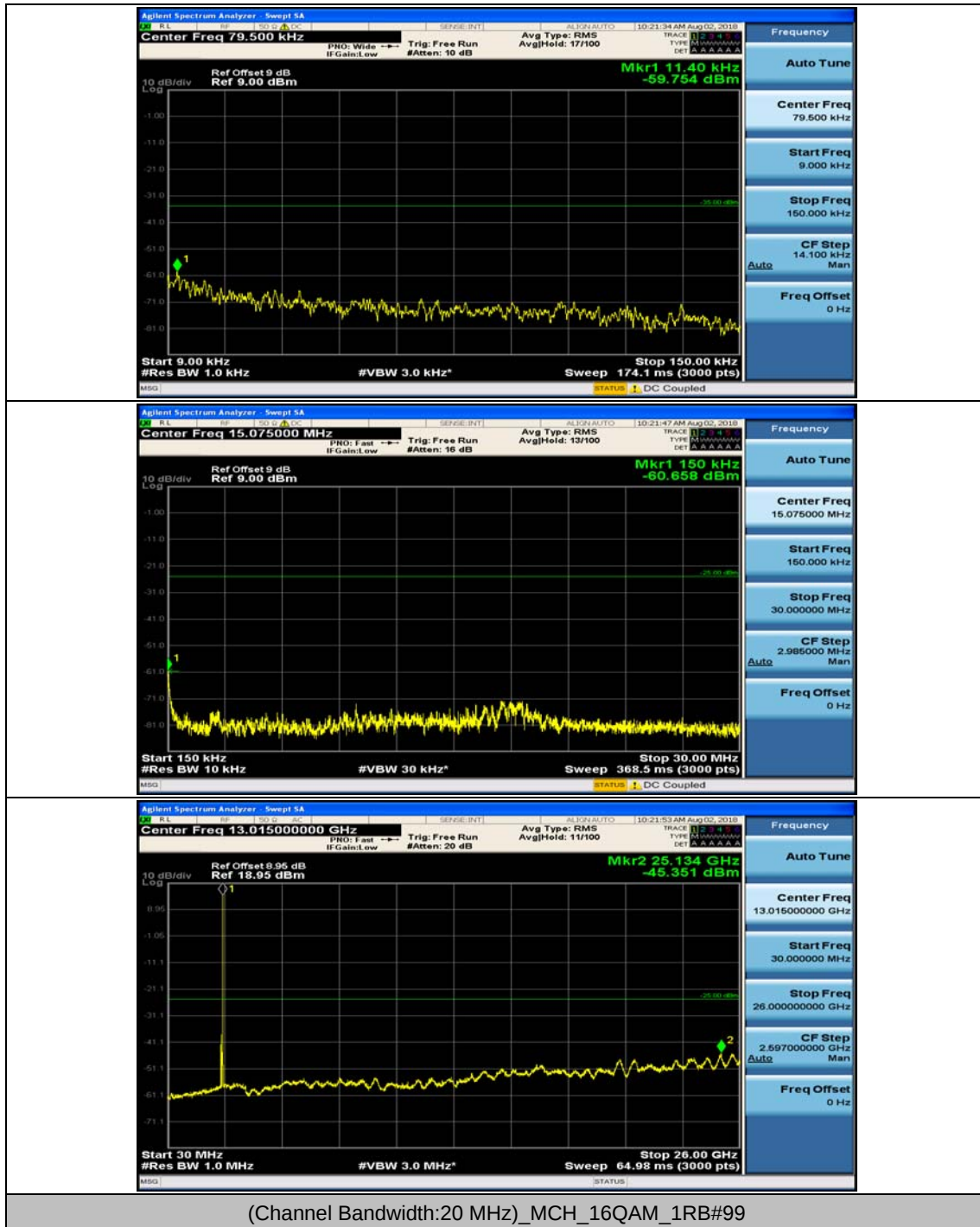


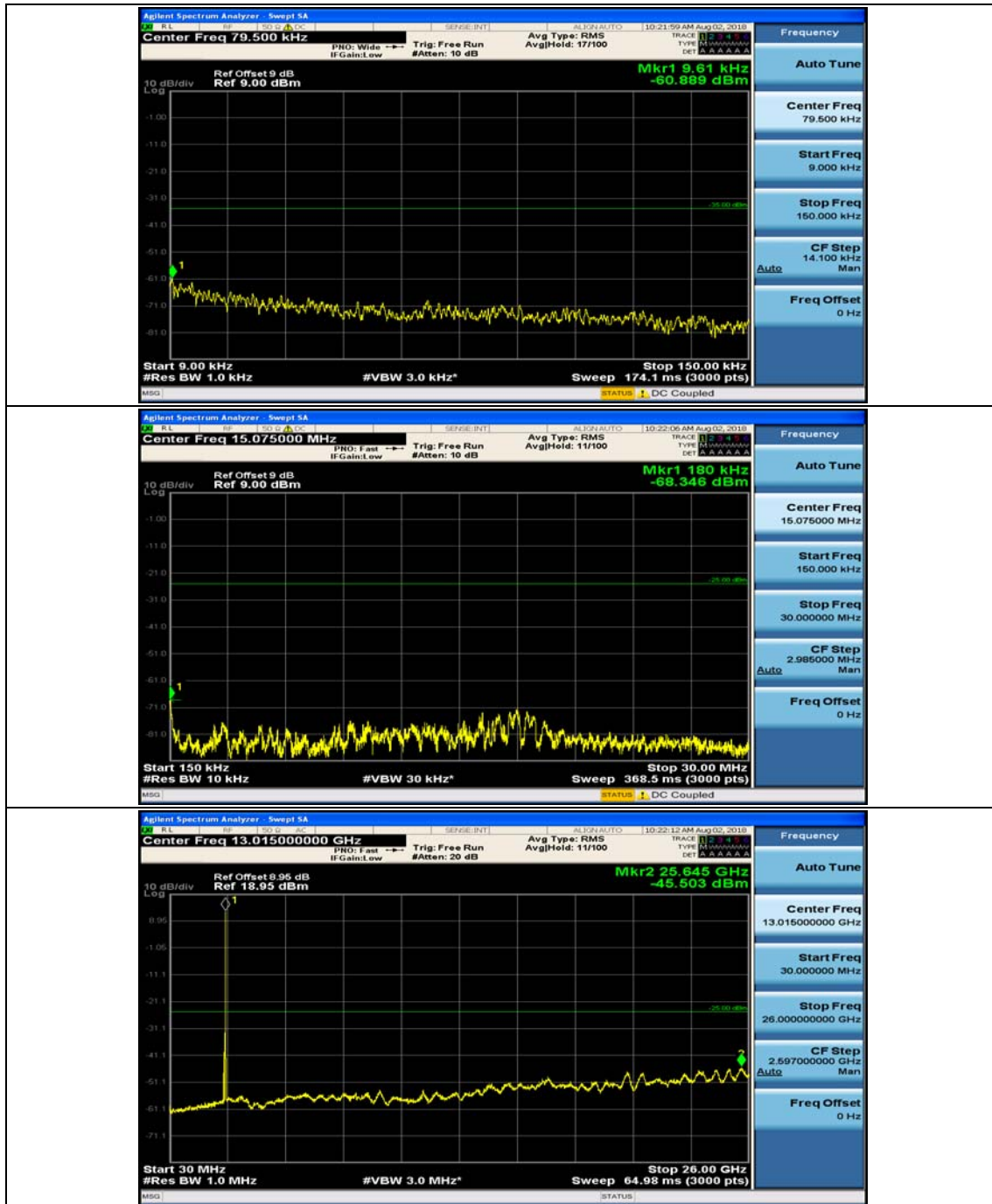


(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#0

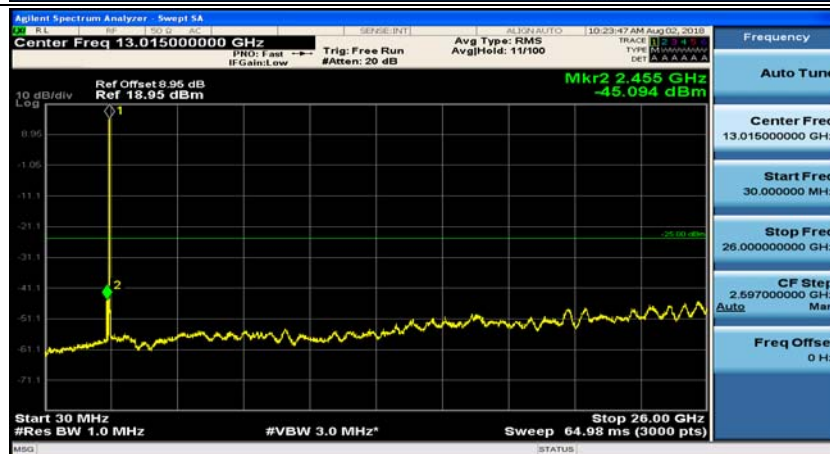
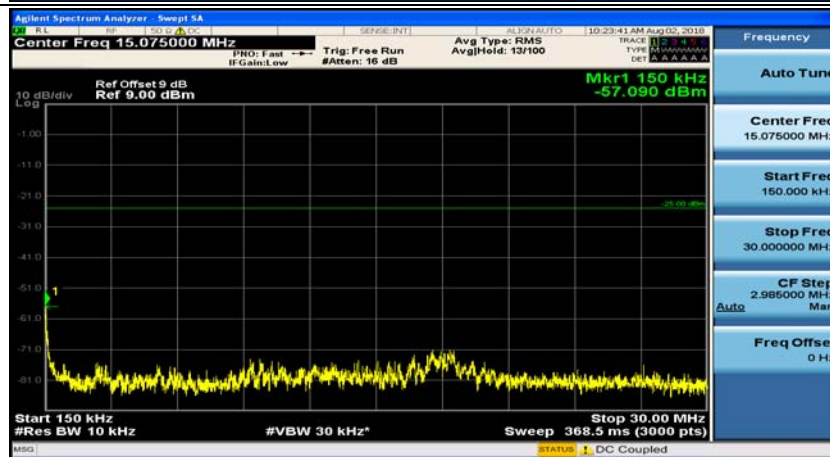
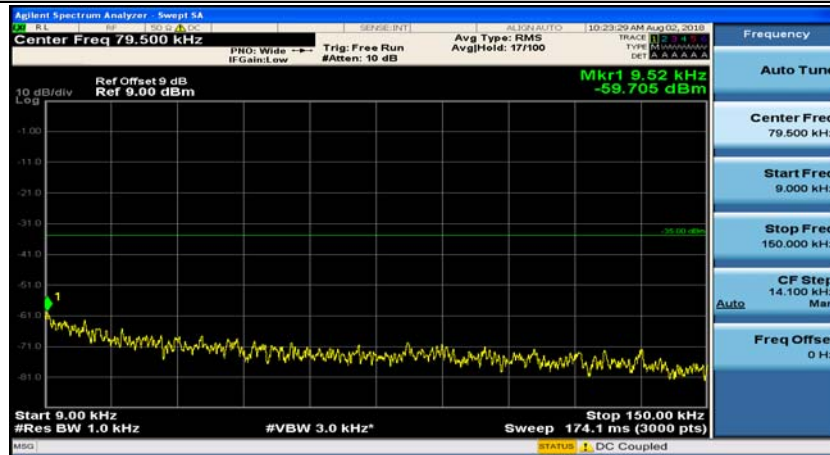


(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#49

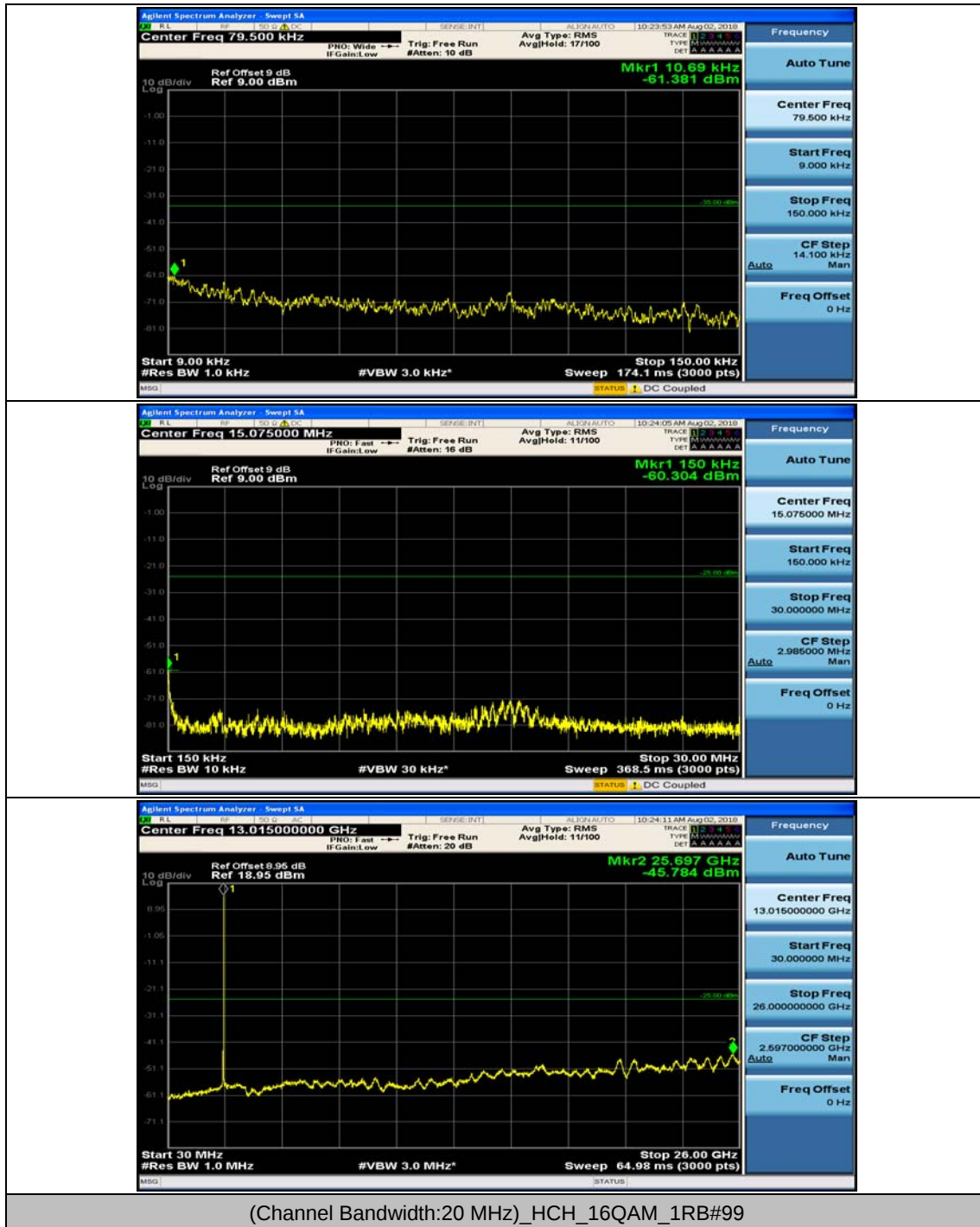


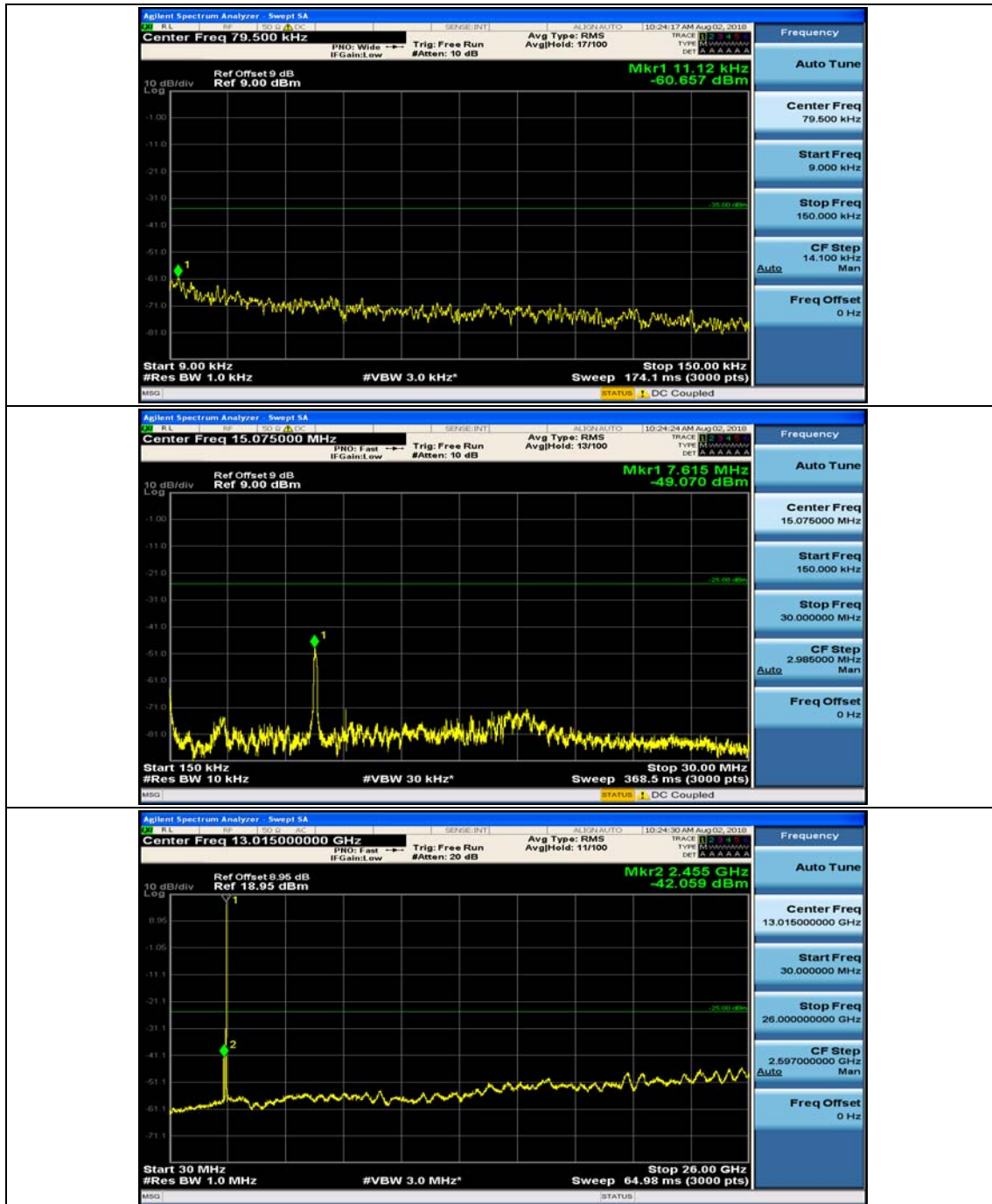


(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#0



(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#49





Appendix F: Frequency Stability

Test Result

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-0.45	-0.000180	± 2.5	PASS
		VN	TN	0.84	0.000336	± 2.5	PASS
		VH	TN	1.74	0.000695	± 2.5	PASS
	MCH	VL	TN	1.8	0.000710	± 2.5	PASS
		VN	TN	2.03	0.000801	± 2.5	PASS
		VH	TN	1.76	0.000694	± 2.5	PASS
	HCH	VL	TN	1.54	0.000600	± 2.5	PASS
		VN	TN	4.41	0.001718	± 2.5	PASS
		VH	TN	-0.05	-0.000019	± 2.5	PASS
16QAM	LCH	VL	TN	-1.64	-0.000655	± 2.5	PASS
		VN	TN	3.31	0.001323	± 2.5	PASS
		VH	TN	3	0.001199	± 2.5	PASS
	MCH	VL	TN	3.94	0.001554	± 2.5	PASS
		VN	TN	2.98	0.001176	± 2.5	PASS
		VH	TN	-0.57	-0.000225	± 2.5	PASS
	HCH	VL	TN	-0.99	-0.000386	± 2.5	PASS
		VN	TN	0.33	0.000129	± 2.5	PASS
		VH	TN	1.61	0.000627	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.58	0.001431	± 2.5	PASS
		VN	-20	3.31	0.001323	± 2.5	PASS
		VN	-10	4.57	0.001826	± 2.5	PASS
		VN	0	4.39	0.001754	± 2.5	PASS
		VN	10	-0.38	-0.000152	± 2.5	PASS
		VN	20	3.94	0.001574	± 2.5	PASS
		VN	30	4.54	0.001814	± 2.5	PASS
		VN	40	2.81	0.001123	± 2.5	PASS
		VN	50	-0.05	-0.000020	± 2.5	PASS
	MCH	VN	-30	-0.41	-0.000162	± 2.5	PASS

		VN	-20	0.64	0.000252	± 2.5	PASS
		VN	-10	4.31	0.001700	± 2.5	PASS
		VN	0	4.66	0.001838	± 2.5	PASS
		VN	10	-0.49	-0.000193	± 2.5	PASS
		VN	20	4.59	0.001811	± 2.5	PASS
		VN	30	4.45	0.001755	± 2.5	PASS
		VN	40	-0.66	-0.000260	± 2.5	PASS
		VN	50	3.17	0.001250	± 2.5	PASS
	HCH	VN	-30	-0.54	-0.000210	± 2.5	PASS
		VN	-20	4.51	0.001757	± 2.5	PASS
		VN	-10	4.26	0.001659	± 2.5	PASS
		VN	0	3.26	0.001270	± 2.5	PASS
		VN	10	2.58	0.001005	± 2.5	PASS
		VN	20	3.66	0.001426	± 2.5	PASS
		VN	30	3.37	0.001313	± 2.5	PASS
		VN	40	-0.28	-0.000109	± 2.5	PASS
		VN	50	2.85	0.001110	± 2.5	PASS
16QAM	LCH	VN	-30	-0.44	-0.000176	± 2.5	PASS
		VN	-20	1.93	0.000771	± 2.5	PASS
		VN	-10	4.71	0.001882	± 2.5	PASS
		VN	0	0.85	0.000340	± 2.5	PASS
		VN	10	2.1	0.000839	± 2.5	PASS
		VN	20	4.51	0.001802	± 2.5	PASS
		VN	30	1.34	0.000535	± 2.5	PASS
		VN	40	4.4	0.001758	± 2.5	PASS
		VN	50	4.63	0.001850	± 2.5	PASS
	MCH	VN	-30	4.82	0.001901	± 2.5	PASS
		VN	-20	1.3	0.000513	± 2.5	PASS
		VN	-10	2.03	0.000801	± 2.5	PASS
		VN	0	1.24	0.000489	± 2.5	PASS
		VN	10	0.51	0.000201	± 2.5	PASS
		VN	20	-1.16	-0.000458	± 2.5	PASS
		VN	30	-1.38	-0.000544	± 2.5	PASS
		VN	40	4.31	0.001700	± 2.5	PASS
		VN	50	3	0.001183	± 2.5	PASS
	HCH	VN	-30	0.35	0.000136	± 2.5	PASS
		VN	-20	2.32	0.000904	± 2.5	PASS
		VN	-10	4.28	0.001667	± 2.5	PASS
		VN	0	3.26	0.001270	± 2.5	PASS
		VN	10	2.61	0.001017	± 2.5	PASS
		VN	20	0.58	0.000226	± 2.5	PASS

		VN	30	3.48	0.001355	± 2.5	PASS
		VN	40	-0.43	-0.000167	± 2.5	PASS
		VN	50	1.9	0.000740	± 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	4.33	0.001729	± 2.5	PASS
		VN	TN	3.55	0.001417	± 2.5	PASS
		VH	TN	3.64	0.001453	± 2.5	PASS
	MCH	VL	TN	3.04	0.001199	± 2.5	PASS
		VN	TN	4.24	0.001673	± 2.5	PASS
		VH	TN	4.37	0.001724	± 2.5	PASS
	HCH	VL	TN	-1.35	-0.000526	± 2.5	PASS
		VN	TN	4.04	0.001575	± 2.5	PASS
		VH	TN	-0.45	-0.000175	± 2.5	PASS
16QAM	LCH	VL	TN	2.51	0.001002	± 2.5	PASS
		VN	TN	2.38	0.000950	± 2.5	PASS
		VH	TN	4.34	0.001733	± 2.5	PASS
	MCH	VL	TN	-0.17	-0.000067	± 2.5	PASS
		VN	TN	-0.55	-0.000217	± 2.5	PASS
		VH	TN	3.94	0.001554	± 2.5	PASS
	HCH	VL	TN	1.04	0.000405	± 2.5	PASS
		VN	TN	1.17	0.000456	± 2.5	PASS
		VH	TN	-0.5	-0.000195	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	0.96	0.000383	± 2.5	PASS
		VN	-20	4.86	0.001940	± 2.5	PASS
		VN	-10	0.92	0.000367	± 2.5	PASS
		VN	0	4.43	0.001768	± 2.5	PASS
		VN	10	1.75	0.000699	± 2.5	PASS
		VN	20	-0.56	-0.000224	± 2.5	PASS
		VN	30	1.04	0.000415	± 2.5	PASS
		VN	40	-0.54	-0.000216	± 2.5	PASS
		VN	50	1.52	0.000607	± 2.5	PASS
	MCH	VN	-30	4.55	0.001795	± 2.5	PASS
		VN	-20	0.78	0.000308	± 2.5	PASS

		VN	-10	-1.57	-0.000619	± 2.5	PASS
		VN	0	2.53	0.000998	± 2.5	PASS
		VN	10	3.86	0.001523	± 2.5	PASS
		VN	20	2.63	0.001037	± 2.5	PASS
		VN	30	4.89	0.001929	± 2.5	PASS
		VN	40	4.47	0.001763	± 2.5	PASS
		VN	50	-1.63	-0.000643	± 2.5	PASS
	HCH	VN	-30	-1.02	-0.000398	± 2.5	PASS
		VN	-20	1.08	0.000421	± 2.5	PASS
		VN	-10	-0.88	-0.000343	± 2.5	PASS
		VN	0	1.19	0.000464	± 2.5	PASS
		VN	10	1.22	0.000476	± 2.5	PASS
		VN	20	4.7	0.001832	± 2.5	PASS
		VN	30	4.59	0.001789	± 2.5	PASS
		VN	40	1.04	0.000405	± 2.5	PASS
		VN	50	1.2	0.000468	± 2.5	PASS
QPSK	LCH	VN	-30	3.54	0.001413	± 2.5	PASS
		VN	-20	0.52	0.000208	± 2.5	PASS
		VN	-10	-0.99	-0.000395	± 2.5	PASS
		VN	0	-2	-0.000798	± 2.5	PASS
		VN	10	3.01	0.001202	± 2.5	PASS
		VN	20	0.81	0.000323	± 2.5	PASS
		VN	30	2.16	0.000862	± 2.5	PASS
		VN	40	4.66	0.001860	± 2.5	PASS
		VN	50	-1.64	-0.000655	± 2.5	PASS
	MCH	VN	-30	0.44	0.000174	± 2.5	PASS
		VN	-20	0.87	0.000343	± 2.5	PASS
		VN	-10	-0.27	-0.000107	± 2.5	PASS
		VN	0	4.36	0.001720	± 2.5	PASS
		VN	10	4.91	0.001937	± 2.5	PASS
		VN	20	-1.96	-0.000773	± 2.5	PASS
		VN	30	-1.63	-0.000643	± 2.5	PASS
		VN	40	-0.13	-0.000051	± 2.5	PASS
		VN	50	3.19	0.001258	± 2.5	PASS
	HCH	VN	-30	1.35	0.000526	± 2.5	PASS
		VN	-20	-0.55	-0.000214	± 2.5	PASS
		VN	-10	1.33	0.000519	± 2.5	PASS
		VN	0	4.21	0.001641	± 2.5	PASS
		VN	10	0.16	0.000062	± 2.5	PASS
		VN	20	-1.69	-0.000659	± 2.5	PASS
		VN	30	3.63	0.001415	± 2.5	PASS

		VN	40	2.46	0.000959	± 2.5	PASS
		VN	50	3.62	0.001411	± 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	2.26	0.000901	± 2.5	PASS
		VN	TN	4.06	0.001619	± 2.5	PASS
		VH	TN	3.97	0.001583	± 2.5	PASS
	MCH	VL	TN	-1.61	-0.000635	± 2.5	PASS
		VN	TN	-0.73	-0.000288	± 2.5	PASS
		VH	TN	1.37	0.000540	± 2.5	PASS
	HCH	VL	TN	1.71	0.000667	± 2.5	PASS
		VN	TN	1.54	0.000601	± 2.5	PASS
		VH	TN	2.02	0.000788	± 2.5	PASS
16QAM	LCH	VL	TN	-1.71	-0.000682	± 2.5	PASS
		VN	TN	4.61	0.001838	± 2.5	PASS
		VH	TN	1.22	0.000487	± 2.5	PASS
	MCH	VL	TN	1.88	0.000742	± 2.5	PASS
		VN	TN	2.51	0.000990	± 2.5	PASS
		VH	TN	2.17	0.000856	± 2.5	PASS
	HCH	VL	TN	4.54	0.001772	± 2.5	PASS
		VN	TN	-0.32	-0.000125	± 2.5	PASS
		VH	TN	0.08	0.000031	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.57	0.000227	± 2.5	PASS
		VN	-20	3	0.001196	± 2.5	PASS
		VN	-10	-0.99	-0.000395	± 2.5	PASS
		VN	0	1.21	0.000483	± 2.5	PASS
		VN	10	-0.51	-0.000203	± 2.5	PASS
		VN	20	4.73	0.001886	± 2.5	PASS
		VN	30	4.93	0.001966	± 2.5	PASS
		VN	40	2.8	0.001117	± 2.5	PASS
		VN	50	1.02	0.000407	± 2.5	PASS
	MCH	VN	-30	0.88	0.000347	± 2.5	PASS
		VN	-20	0.51	0.000201	± 2.5	PASS
		VN	-10	0.45	0.000178	± 2.5	PASS

		VN	0	-1.79	-0.000706	± 2.5	PASS
		VN	10	4.29	0.001692	± 2.5	PASS
		VN	20	3.85	0.001519	± 2.5	PASS
		VN	30	-1.97	-0.000777	± 2.5	PASS
		VN	40	1.92	0.000757	± 2.5	PASS
		VN	50	2.69	0.001061	± 2.5	PASS
	HCH	VN	-30	-0.78	-0.000304	± 2.5	PASS
		VN	-20	1.59	0.000620	± 2.5	PASS
		VN	-10	3.27	0.001276	± 2.5	PASS
		VN	0	4.73	0.001846	± 2.5	PASS
		VN	10	1.1	0.000429	± 2.5	PASS
		VN	20	1.32	0.000515	± 2.5	PASS
		VN	30	-1.31	-0.000511	± 2.5	PASS
		VN	40	0.19	0.000074	± 2.5	PASS
		VN	50	1.99	0.000777	± 2.5	PASS
16QAM	LCH	VN	-30	-1.52	-0.000606	± 2.5	PASS
		VN	-20	-0.61	-0.000243	± 2.5	PASS
		VN	-10	1.64	0.000654	± 2.5	PASS
		VN	0	0.94	0.000375	± 2.5	PASS
		VN	10	4.12	0.001643	± 2.5	PASS
		VN	20	4.6	0.001834	± 2.5	PASS
		VN	30	-1.06	-0.000423	± 2.5	PASS
		VN	40	4.48	0.001787	± 2.5	PASS
		VN	50	4.69	0.001870	± 2.5	PASS
	MCH	VN	-30	0.09	0.000036	± 2.5	PASS
		VN	-20	3.55	0.001400	± 2.5	PASS
		VN	-10	1.42	0.000560	± 2.5	PASS
		VN	0	4.5	0.001775	± 2.5	PASS
		VN	10	4.83	0.001905	± 2.5	PASS
		VN	20	3.64	0.001436	± 2.5	PASS
		VN	30	-1.64	-0.000647	± 2.5	PASS
		VN	40	2.09	0.000824	± 2.5	PASS
		VN	50	2.63	0.001037	± 2.5	PASS
	HCH	VN	-30	3.03	0.001182	± 2.5	PASS
		VN	-20	1.96	0.000765	± 2.5	PASS
		VN	-10	1.78	0.000695	± 2.5	PASS
		VN	0	0.81	0.000316	± 2.5	PASS
		VN	10	0.75	0.000293	± 2.5	PASS
		VN	20	-1.68	-0.000656	± 2.5	PASS
		VN	30	1.07	0.000418	± 2.5	PASS
		VN	40	2.13	0.000831	± 2.5	PASS

		VN	50	1.91	0.000745	± 2.5	PASS
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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	4.33	0.001725	± 2.5	PASS
		VN	TN	-0.49	-0.000195	± 2.5	PASS
		VH	TN	3.56	0.001418	± 2.5	PASS
	MCH	VL	TN	2.89	0.001140	± 2.5	PASS
		VN	TN	4.29	0.001692	± 2.5	PASS
		VH	TN	0.85	0.000335	± 2.5	PASS
	HCH	VL	TN	-0.76	-0.000297	± 2.5	PASS
		VN	TN	-0.8	-0.000313	± 2.5	PASS
		VH	TN	3.2	0.001250	± 2.5	PASS
16QAM	LCH	VL	TN	4.77	0.001900	± 2.5	PASS
		VN	TN	4.38	0.001745	± 2.5	PASS
		VH	TN	1.6	0.000637	± 2.5	PASS
	MCH	VL	TN	2.33	0.000919	± 2.5	PASS
		VN	TN	-0.33	-0.000130	± 2.5	PASS
		VH	TN	2.63	0.001037	± 2.5	PASS
	HCH	VL	TN	0.52	0.000203	± 2.5	PASS
		VN	TN	2.44	0.000953	± 2.5	PASS
		VH	TN	0.44	0.000172	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.19	0.000474	± 2.5	PASS
		VN	-20	-0.84	-0.000335	± 2.5	PASS
		VN	-10	-0.6	-0.000239	± 2.5	PASS
		VN	0	3.13	0.001247	± 2.5	PASS
		VN	10	0.52	0.000207	± 2.5	PASS
		VN	20	1.23	0.000490	± 2.5	PASS
		VN	30	3.16	0.001259	± 2.5	PASS
		VN	40	4.46	0.001777	± 2.5	PASS
		VN	50	4.39	0.001749	± 2.5	PASS
	MCH	VN	-30	0.82	0.000323	± 2.5	PASS
		VN	-20	0.3	0.000118	± 2.5	PASS
		VN	-10	4.31	0.001700	± 2.5	PASS
		VN	0	3.87	0.001527	± 2.5	PASS

		VN	10	4.23	0.001669	± 2.5	PASS
		VN	20	-0.13	-0.000051	± 2.5	PASS
		VN	30	-1.74	-0.000686	± 2.5	PASS
		VN	40	1.33	0.000525	± 2.5	PASS
		VN	50	4.94	0.001949	± 2.5	PASS
	HCH	VN	-30	1.38	0.000539	± 2.5	PASS
		VN	-20	-0.67	-0.000262	± 2.5	PASS
		VN	-10	-0.04	-0.000016	± 2.5	PASS
		VN	0	-0.23	-0.000090	± 2.5	PASS
		VN	10	-1.83	-0.000715	± 2.5	PASS
		VN	20	0.13	0.000051	± 2.5	PASS
		VN	30	2.33	0.000910	± 2.5	PASS
		VN	40	0.12	0.000047	± 2.5	PASS
		VN	50	0.43	0.000168	± 2.5	PASS
		VN	-30	1.11	0.000442	± 2.5	PASS
16QAM	LCH	VN	-20	3.75	0.001494	± 2.5	PASS
		VN	-10	2.87	0.001143	± 2.5	PASS
		VN	0	1.63	0.000649	± 2.5	PASS
		VN	10	3.73	0.001486	± 2.5	PASS
		VN	20	4.53	0.001805	± 2.5	PASS
		VN	30	3.79	0.001510	± 2.5	PASS
		VN	40	0.47	0.000187	± 2.5	PASS
		VN	50	4.05	0.001614	± 2.5	PASS
	MCH	VN	-30	2.17	0.000856	± 2.5	PASS
		VN	-20	0.39	0.000154	± 2.5	PASS
		VN	-10	1.9	0.000750	± 2.5	PASS
		VN	0	3.25	0.001282	± 2.5	PASS
		VN	10	1.74	0.000686	± 2.5	PASS
		VN	20	-0.28	-0.000110	± 2.5	PASS
		VN	30	1.77	0.000698	± 2.5	PASS
		VN	40	4.85	0.001913	± 2.5	PASS
		VN	50	4.8	0.001893	± 2.5	PASS
	HCH	VN	-30	-0.37	-0.000145	± 2.5	PASS
		VN	-20	3.39	0.001324	± 2.5	PASS
		VN	-10	4.4	0.001719	± 2.5	PASS
		VN	0	3.17	0.001238	± 2.5	PASS
		VN	10	0.09	0.000035	± 2.5	PASS
		VN	20	0.74	0.000289	± 2.5	PASS
		VN	30	-1.66	-0.000648	± 2.5	PASS
		VN	40	2.59	0.001012	± 2.5	PASS
		VN	50	2.2	0.000859	± 2.5	PASS