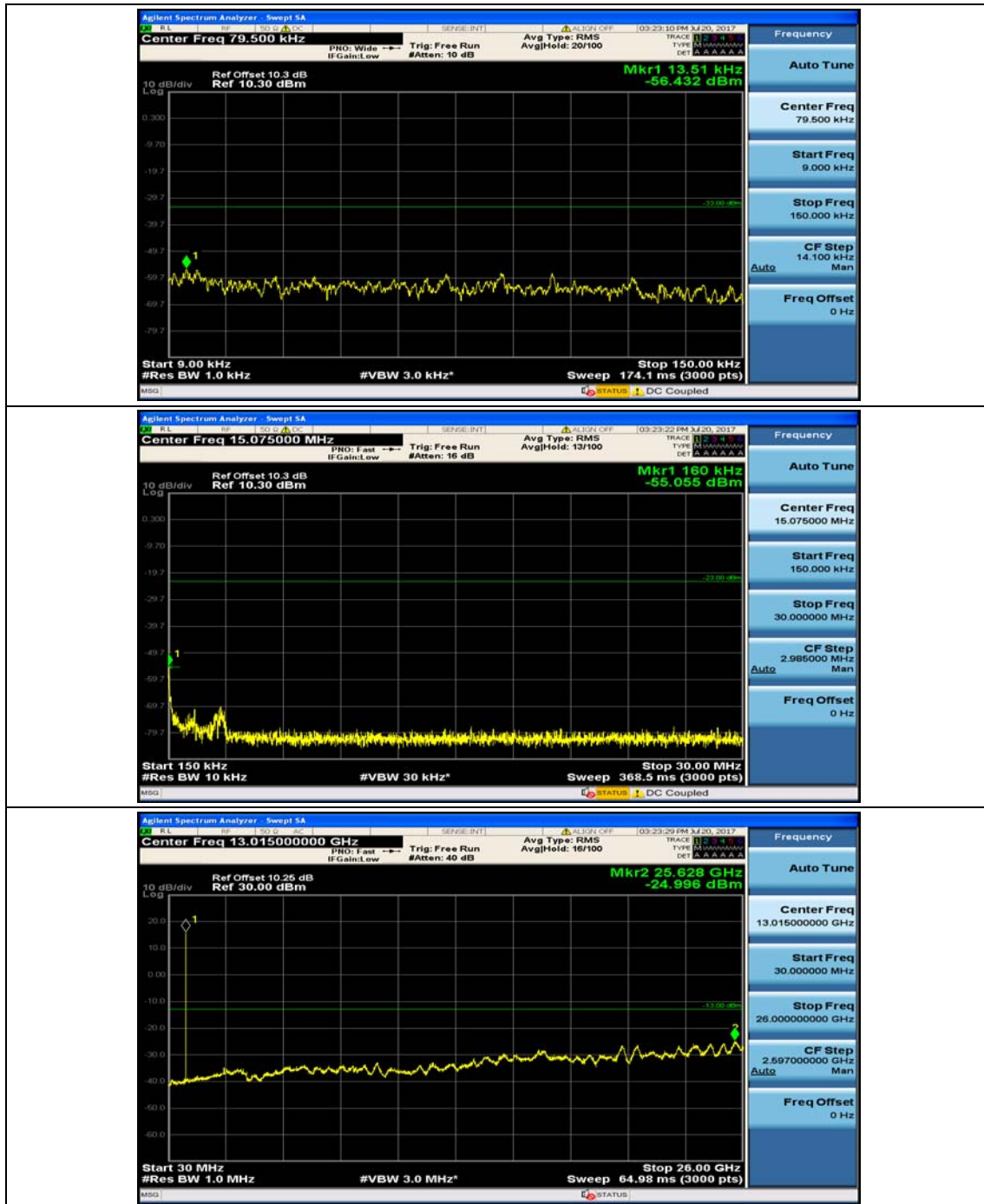
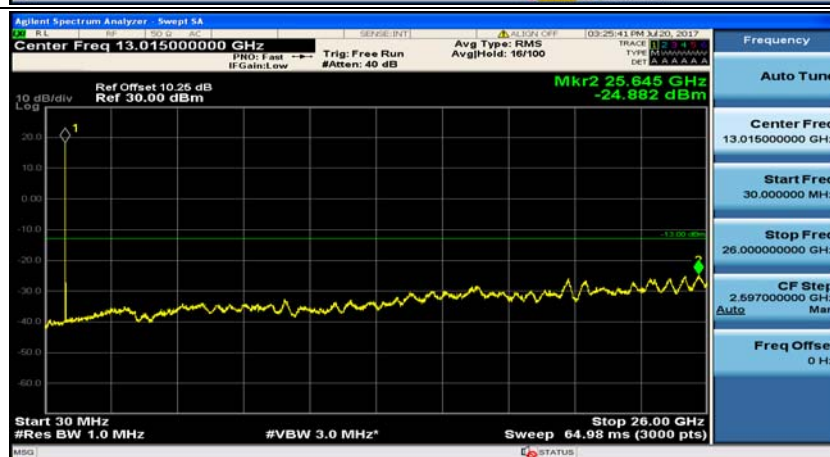
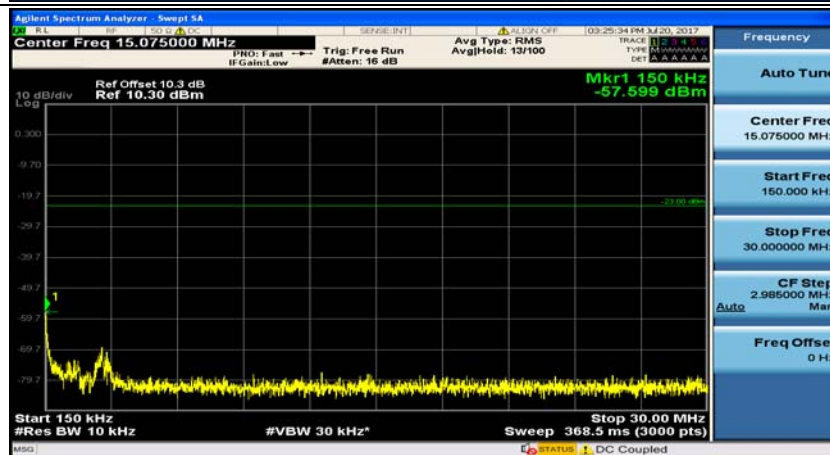
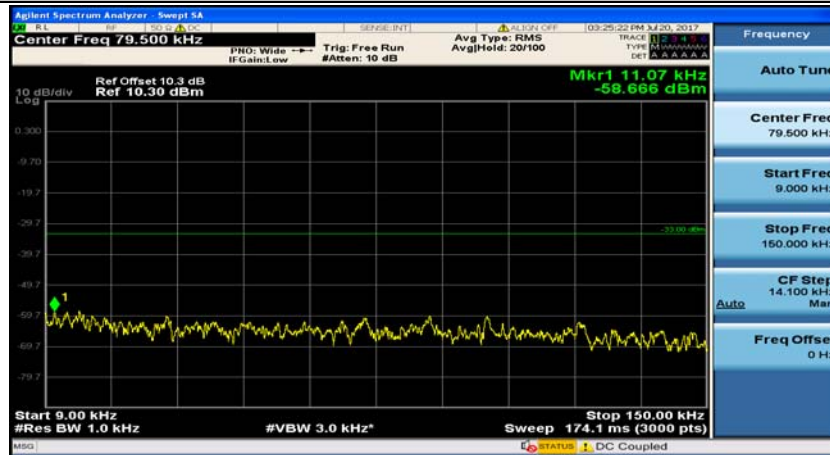
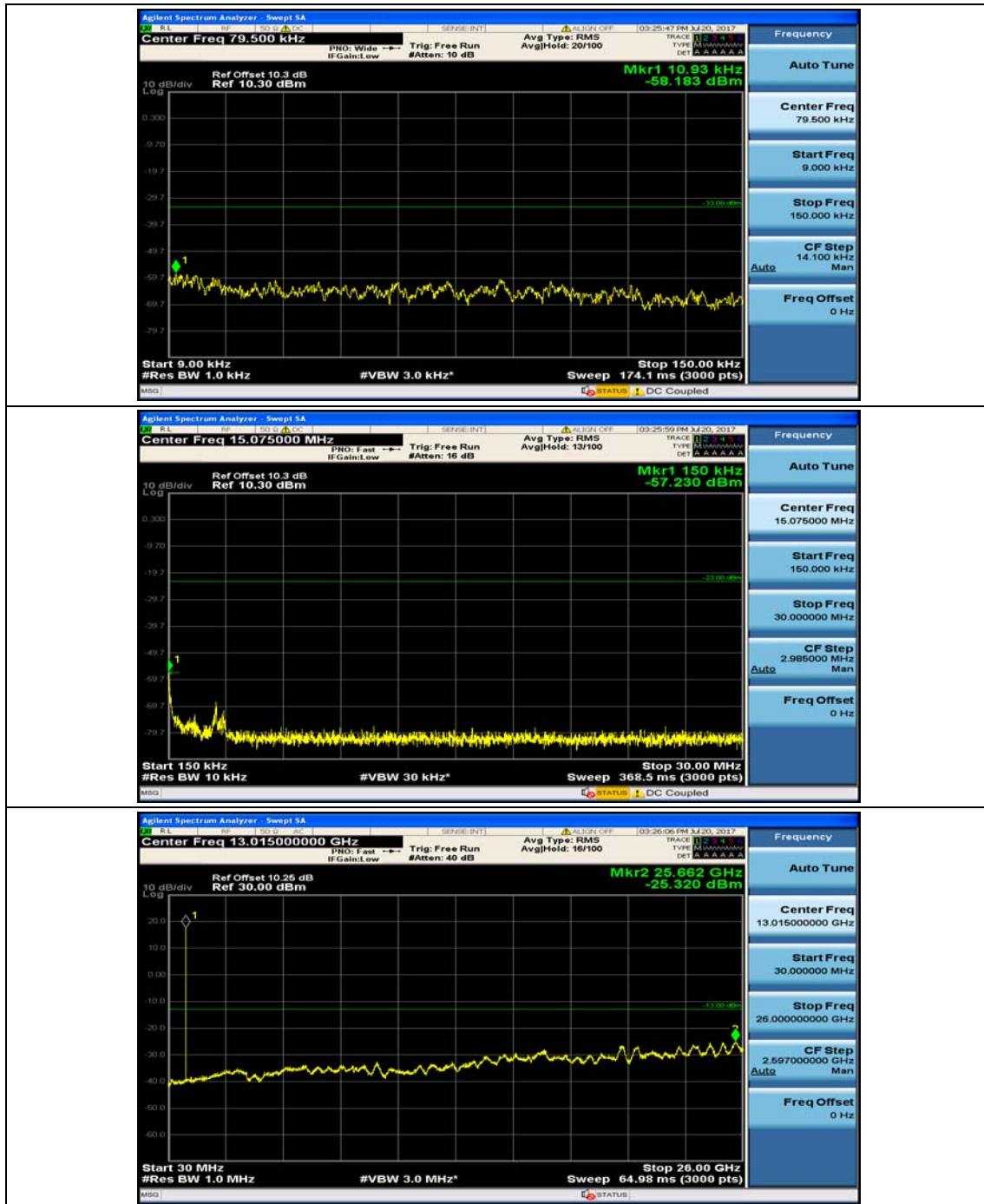




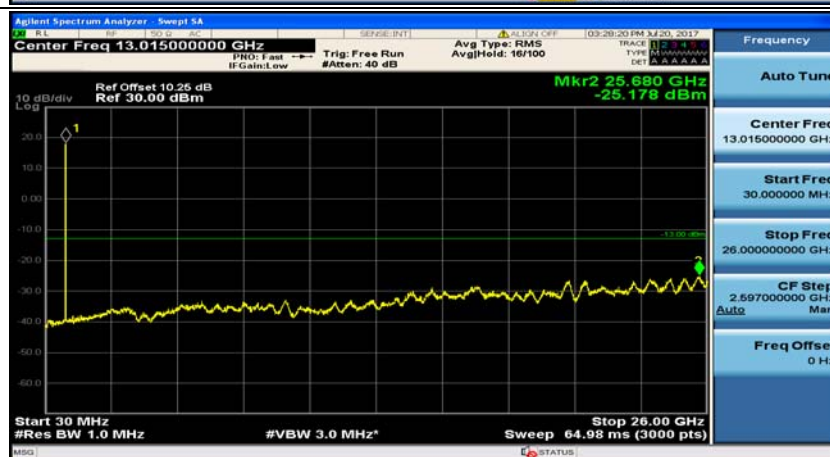
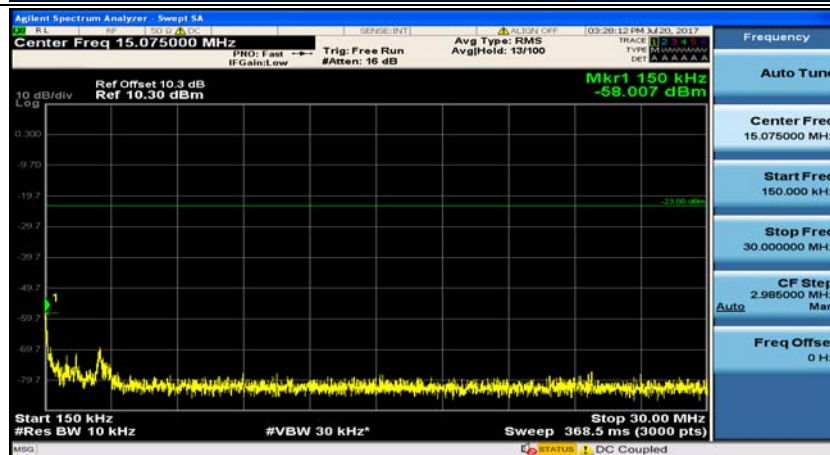
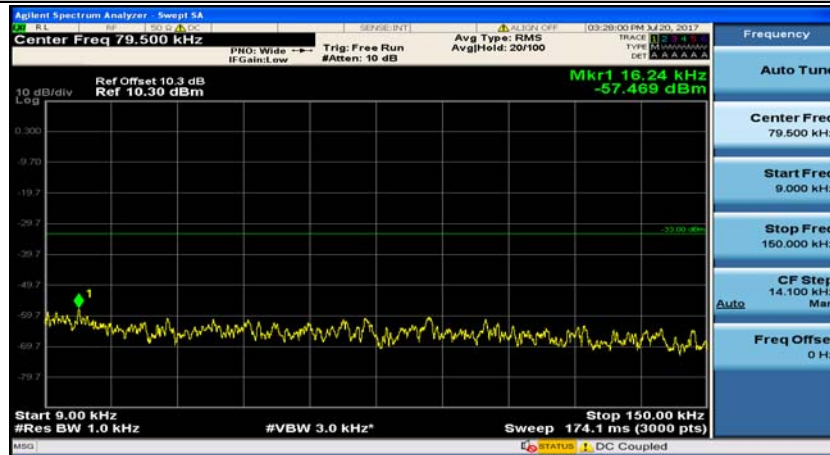
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#0



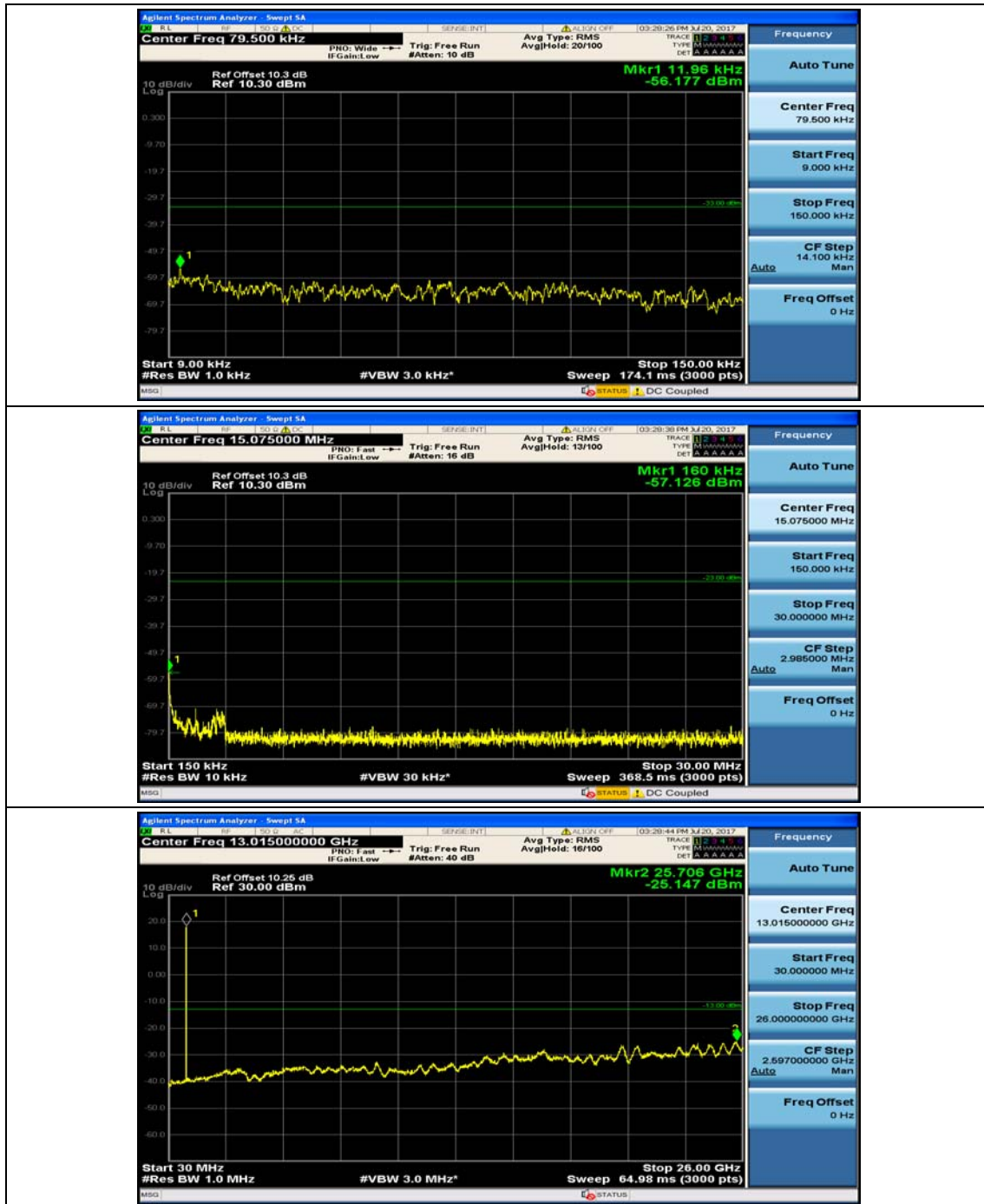
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#7



(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#0

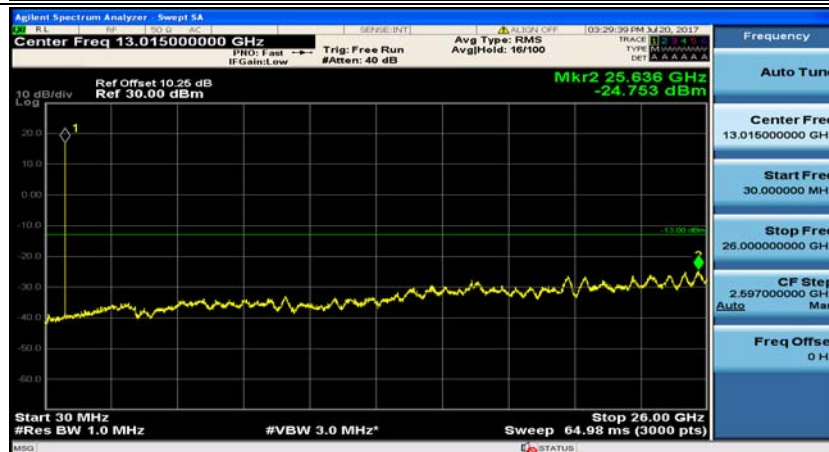
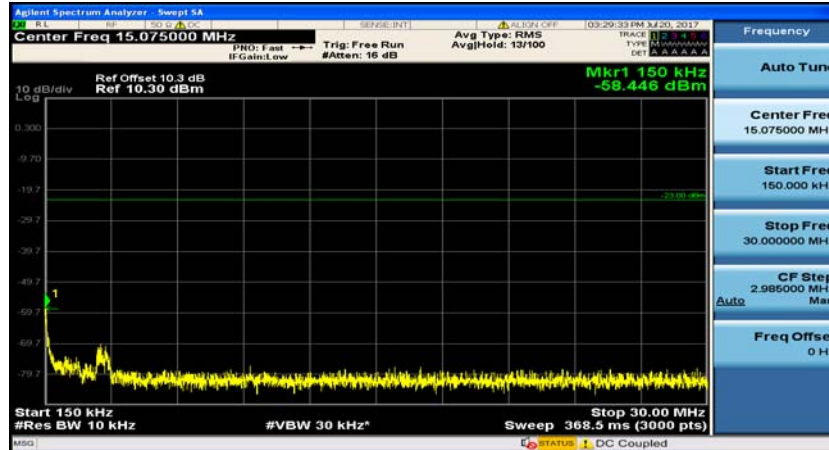
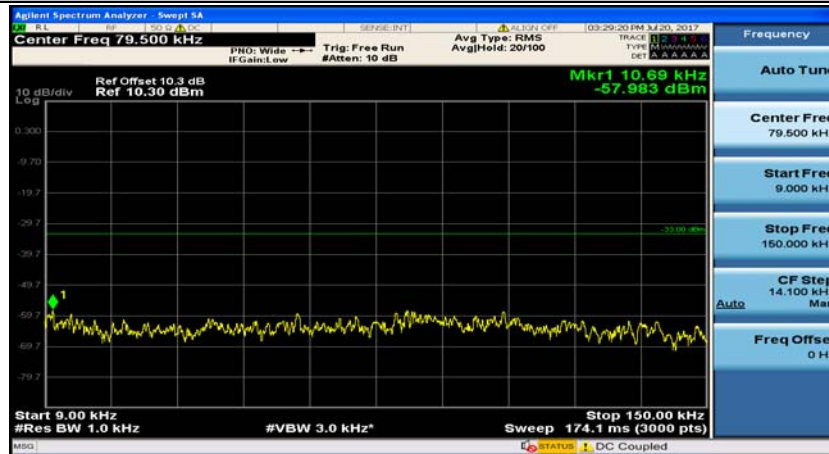


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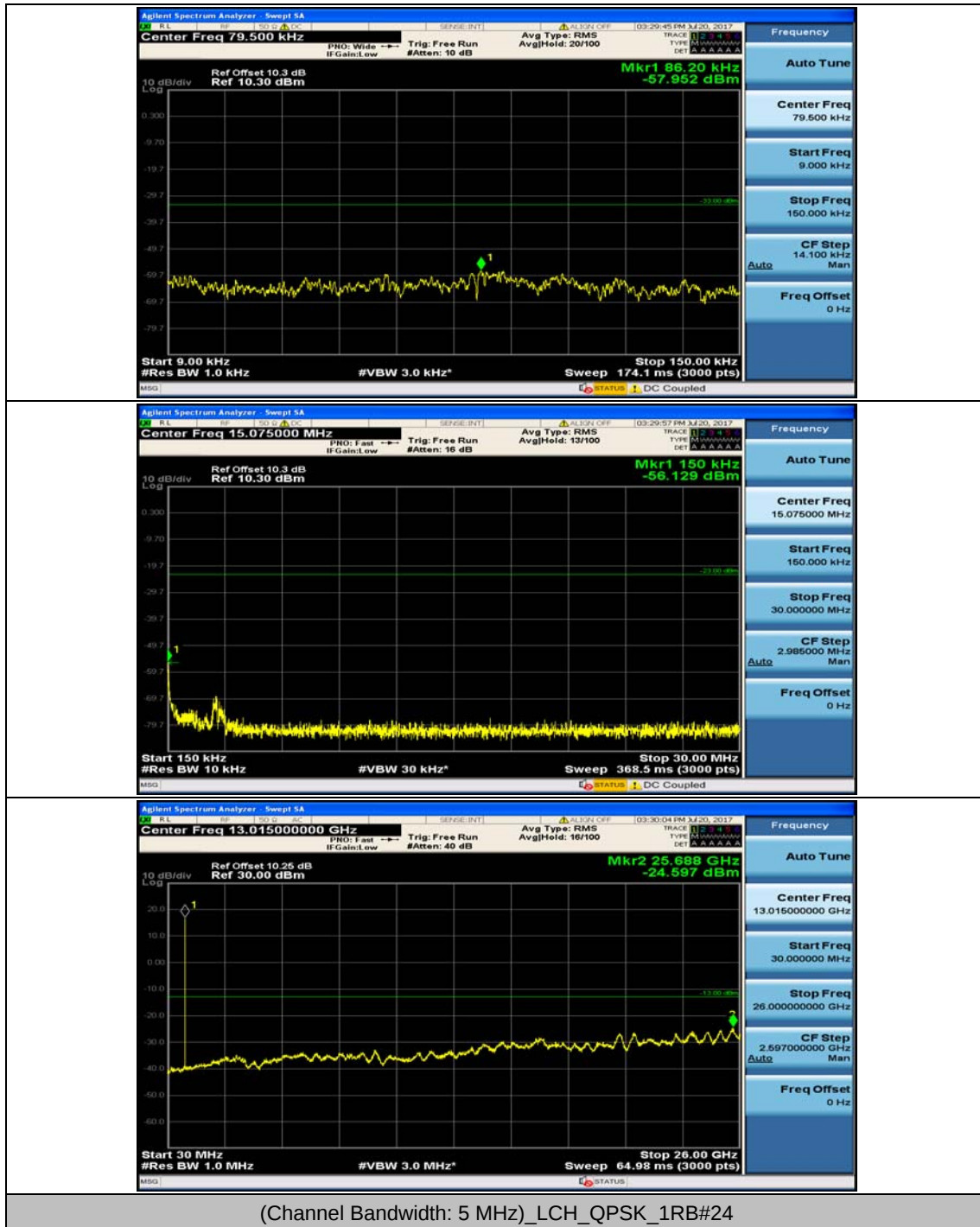


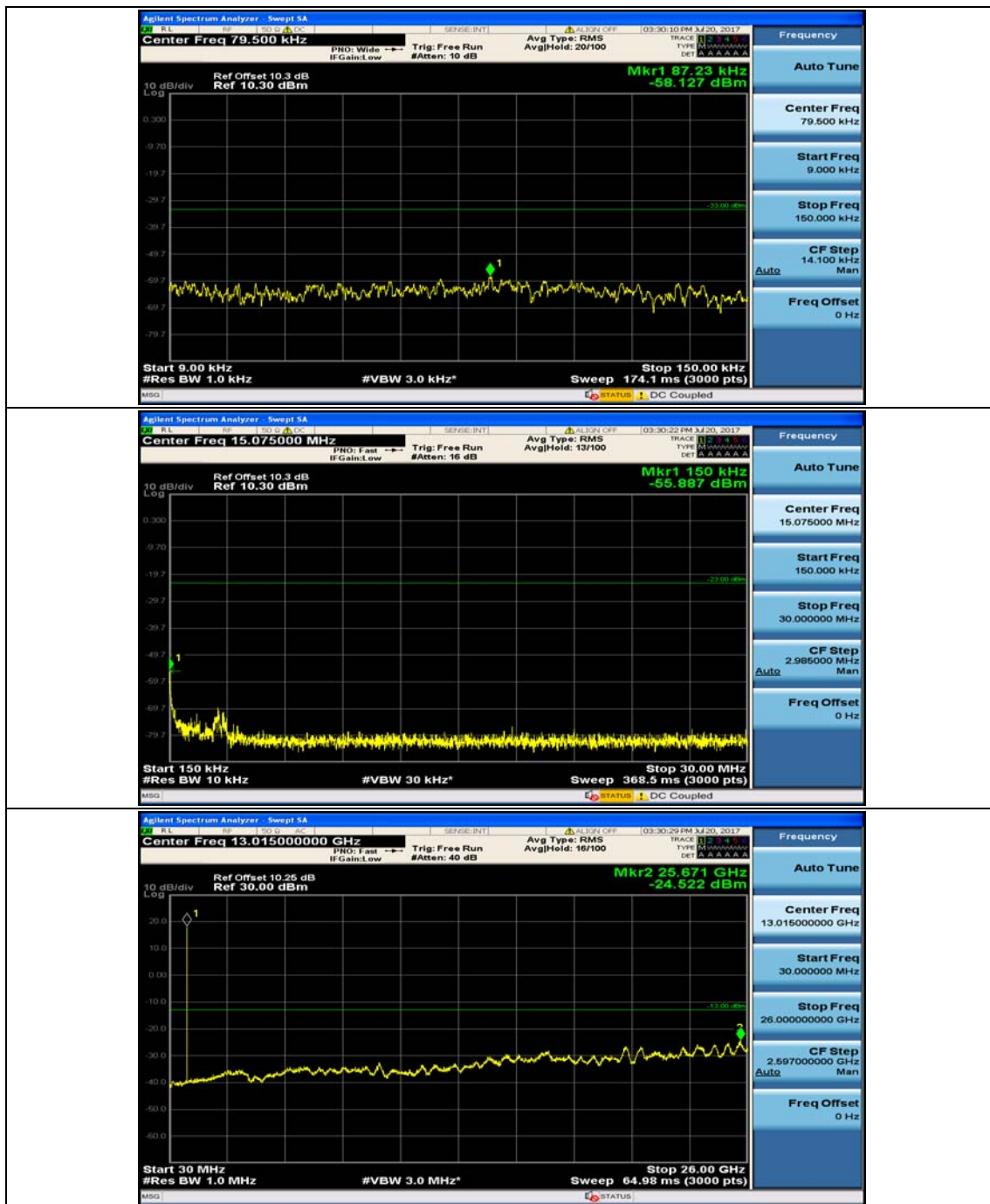
Channel Bandwidth: 5 MHz

(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0

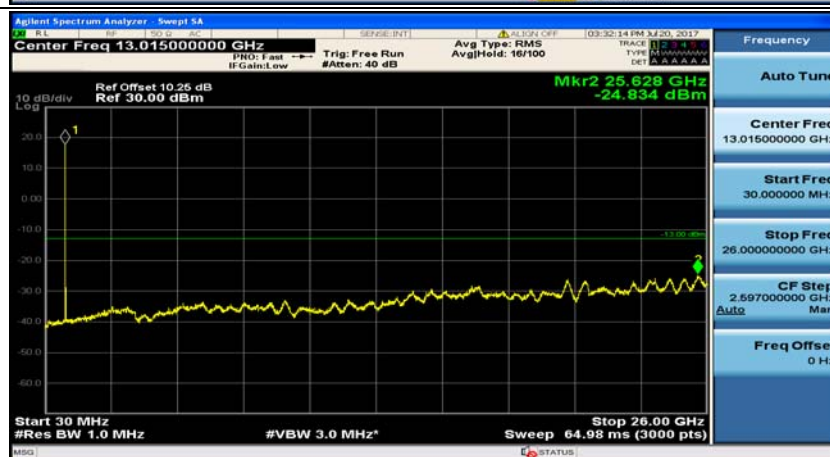
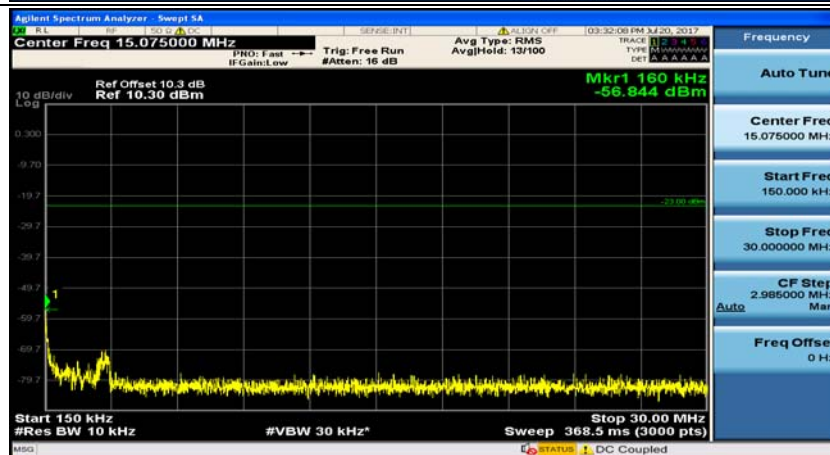
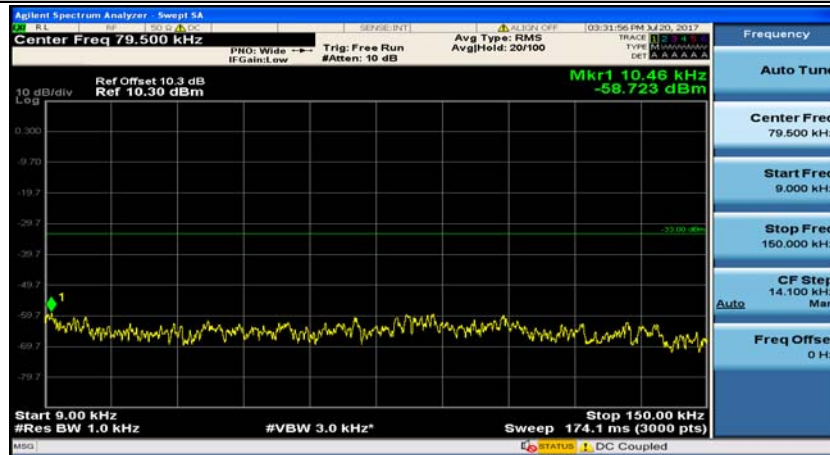


(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12

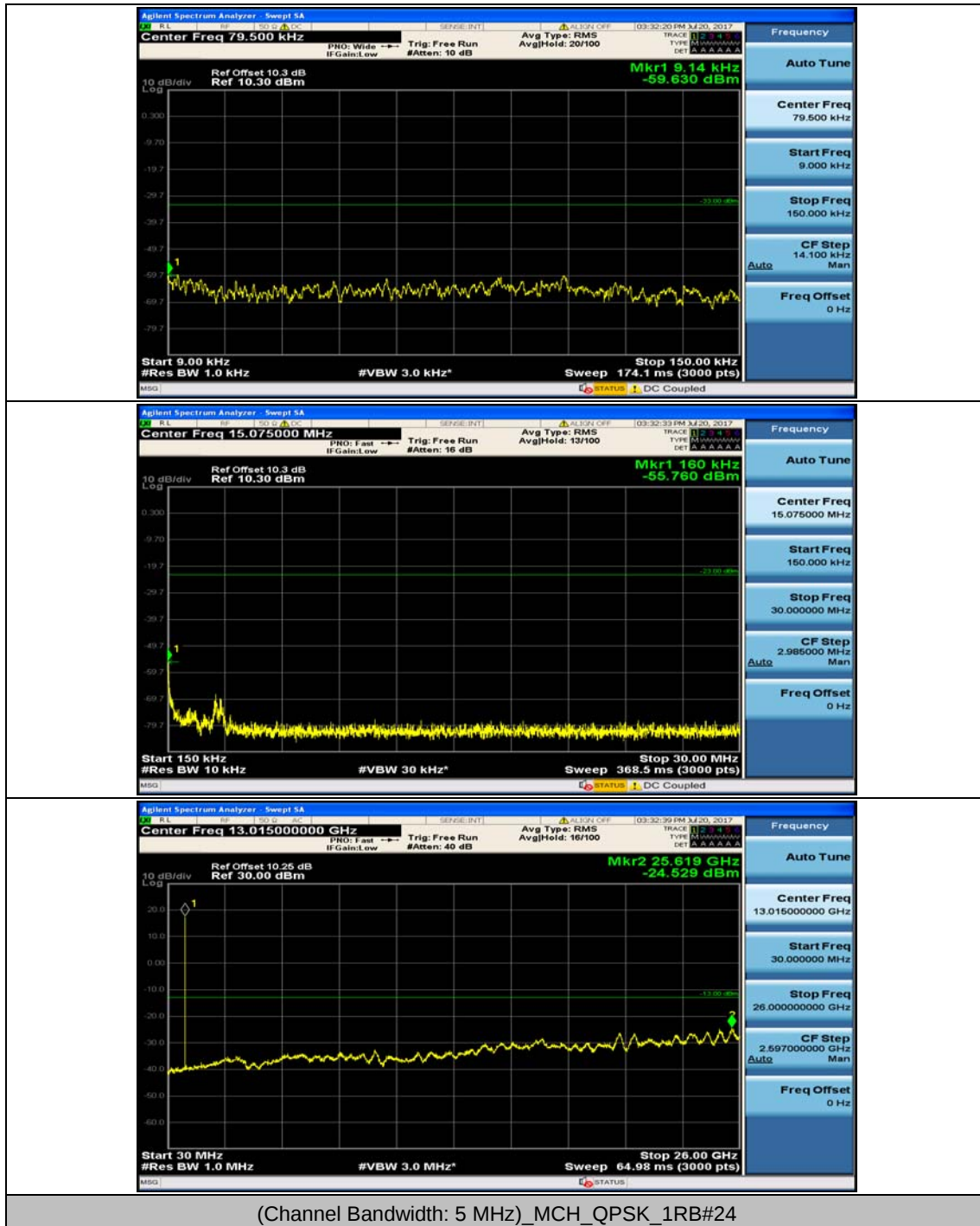


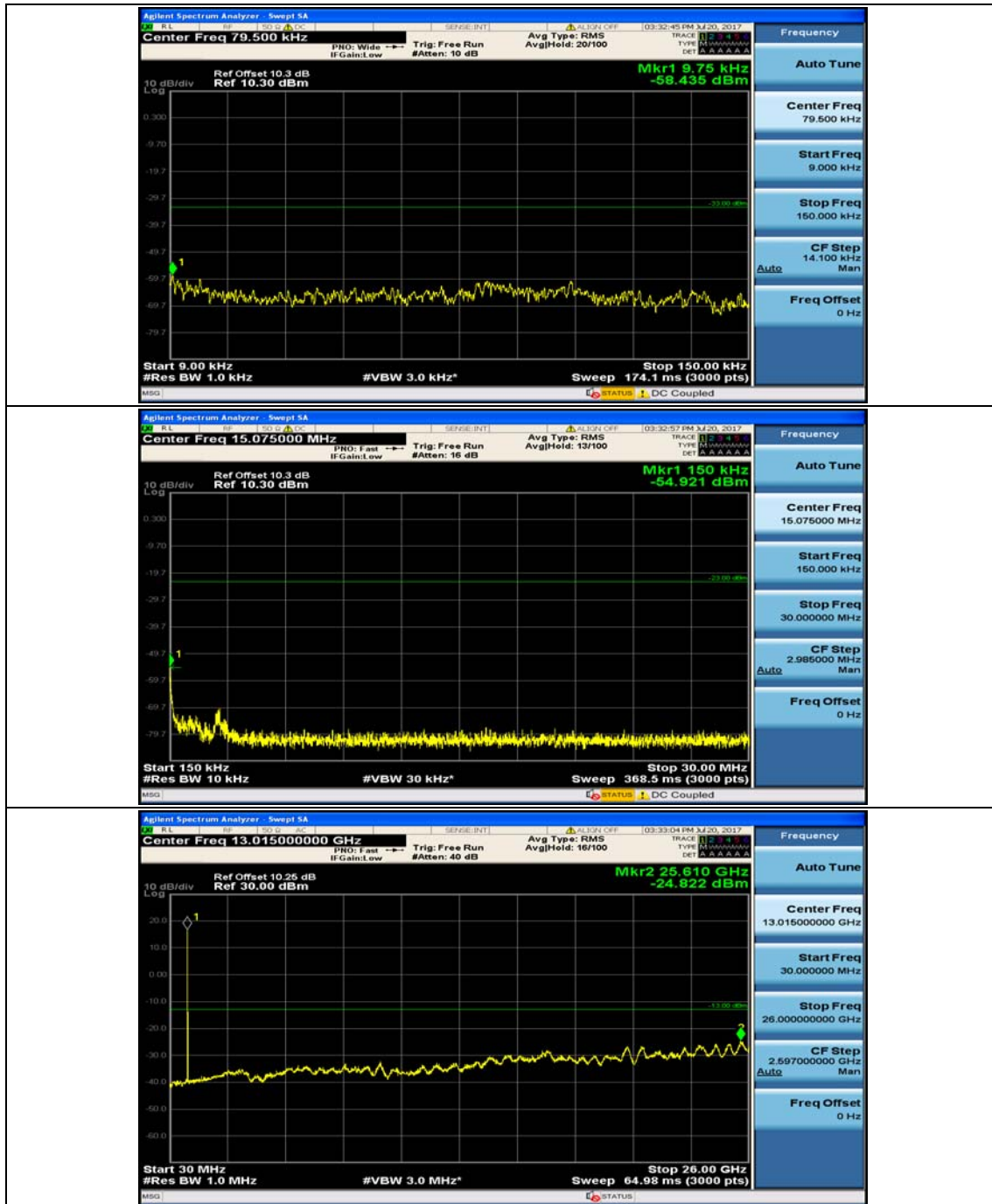


(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0

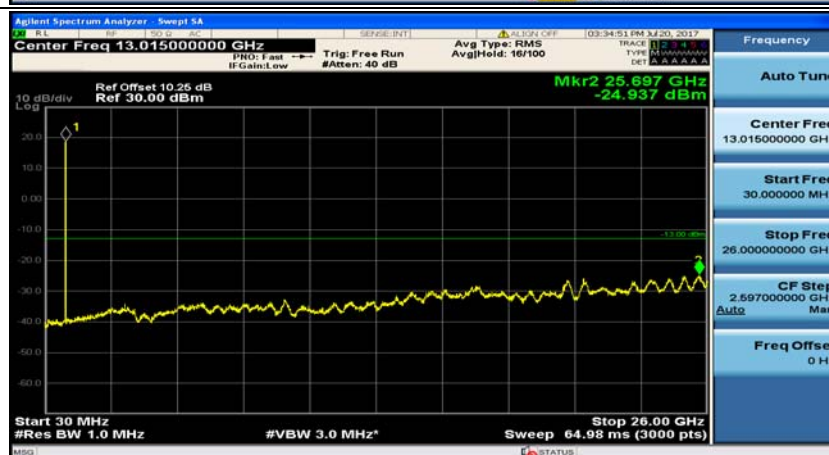
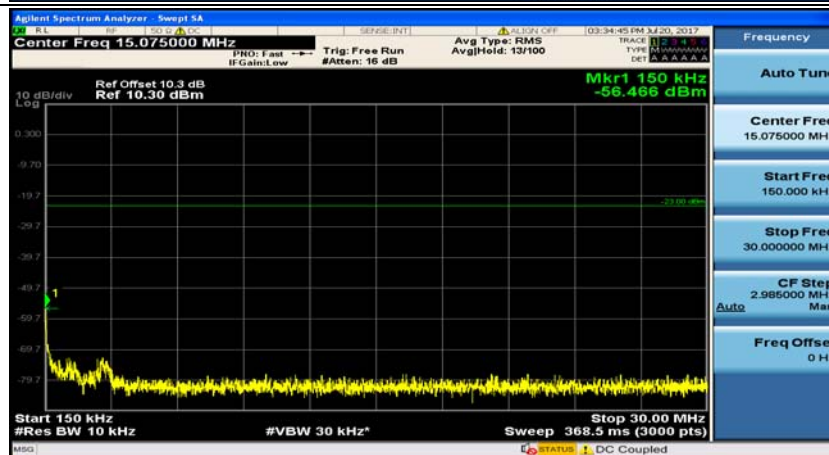
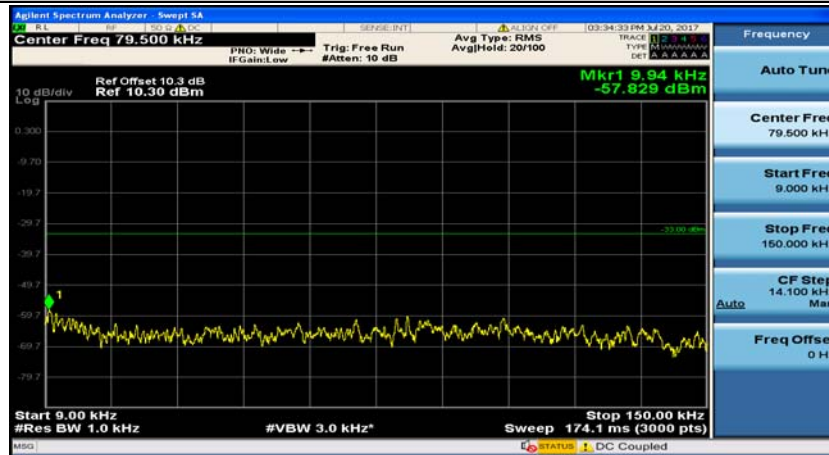


(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12

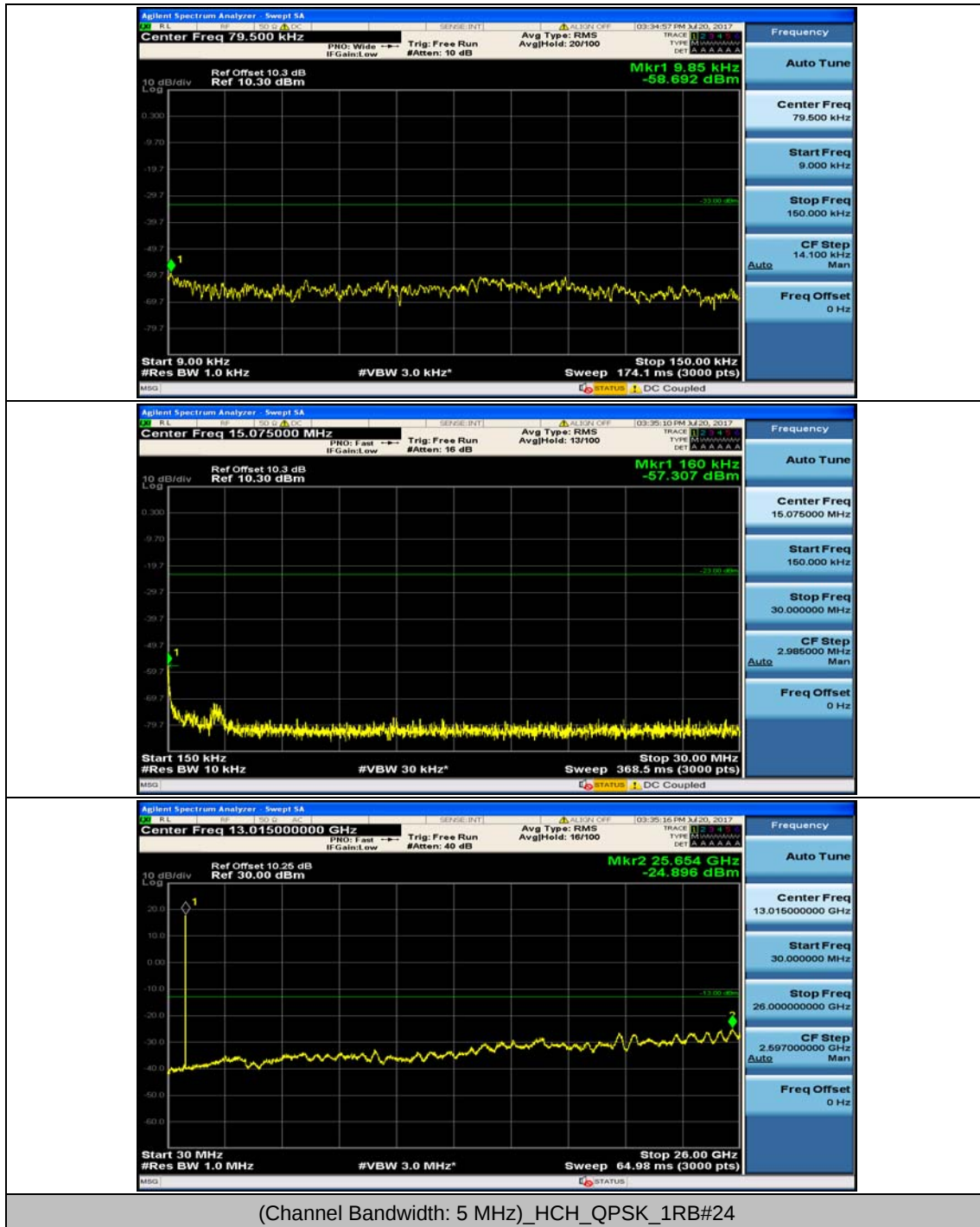


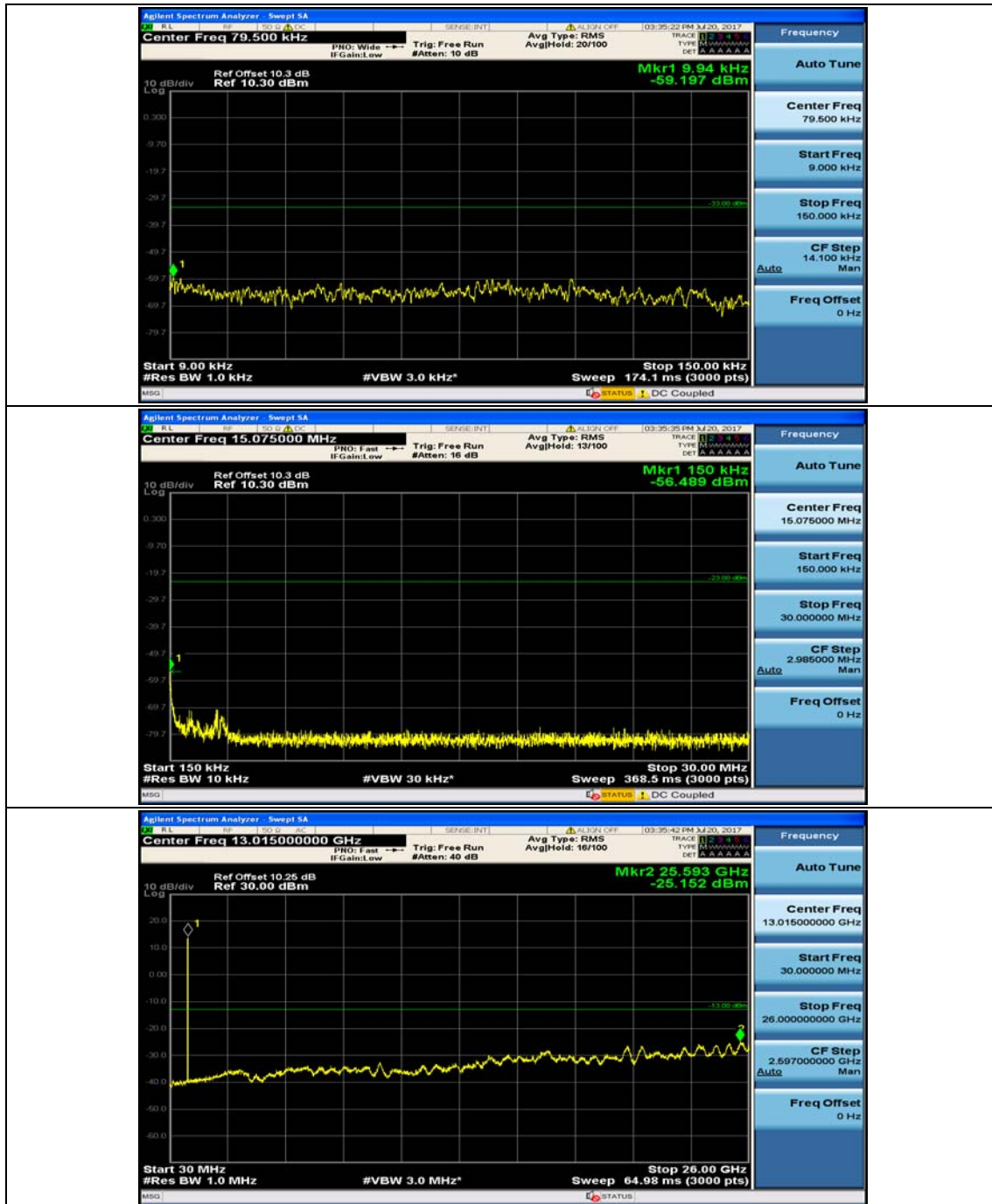


(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0

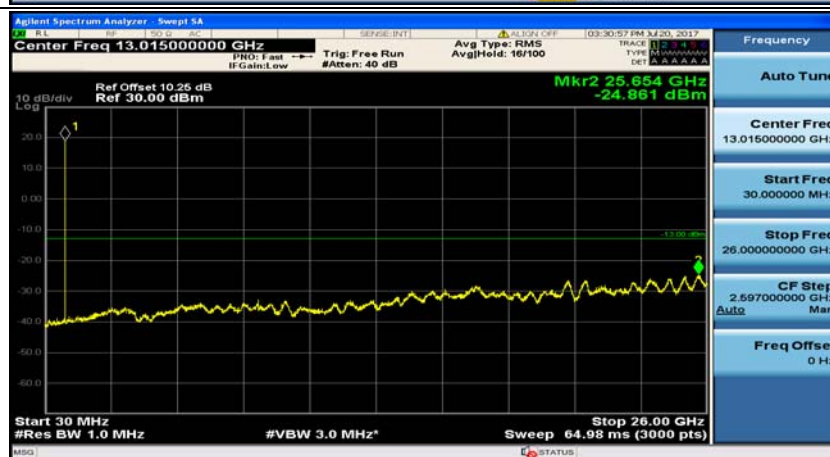
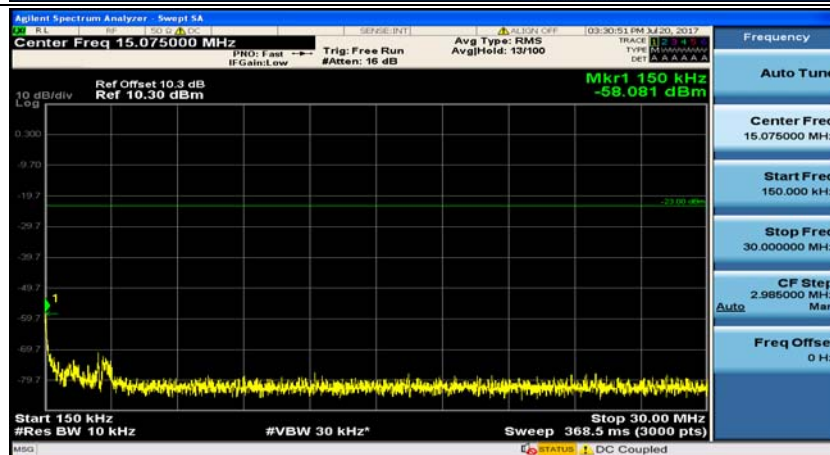
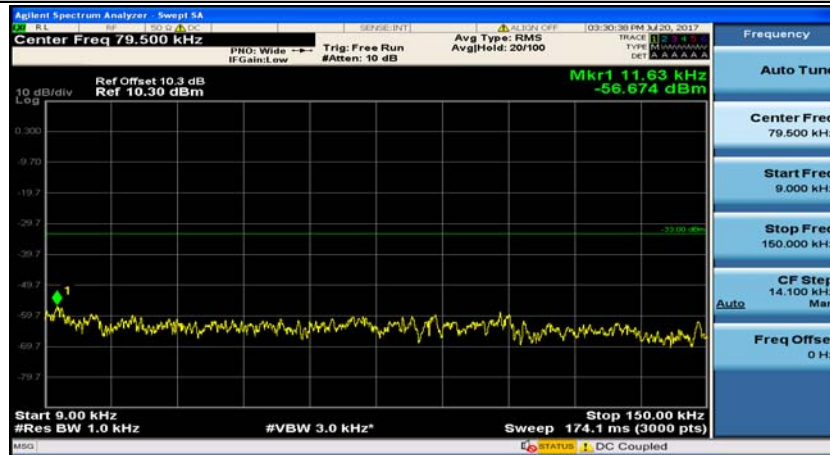


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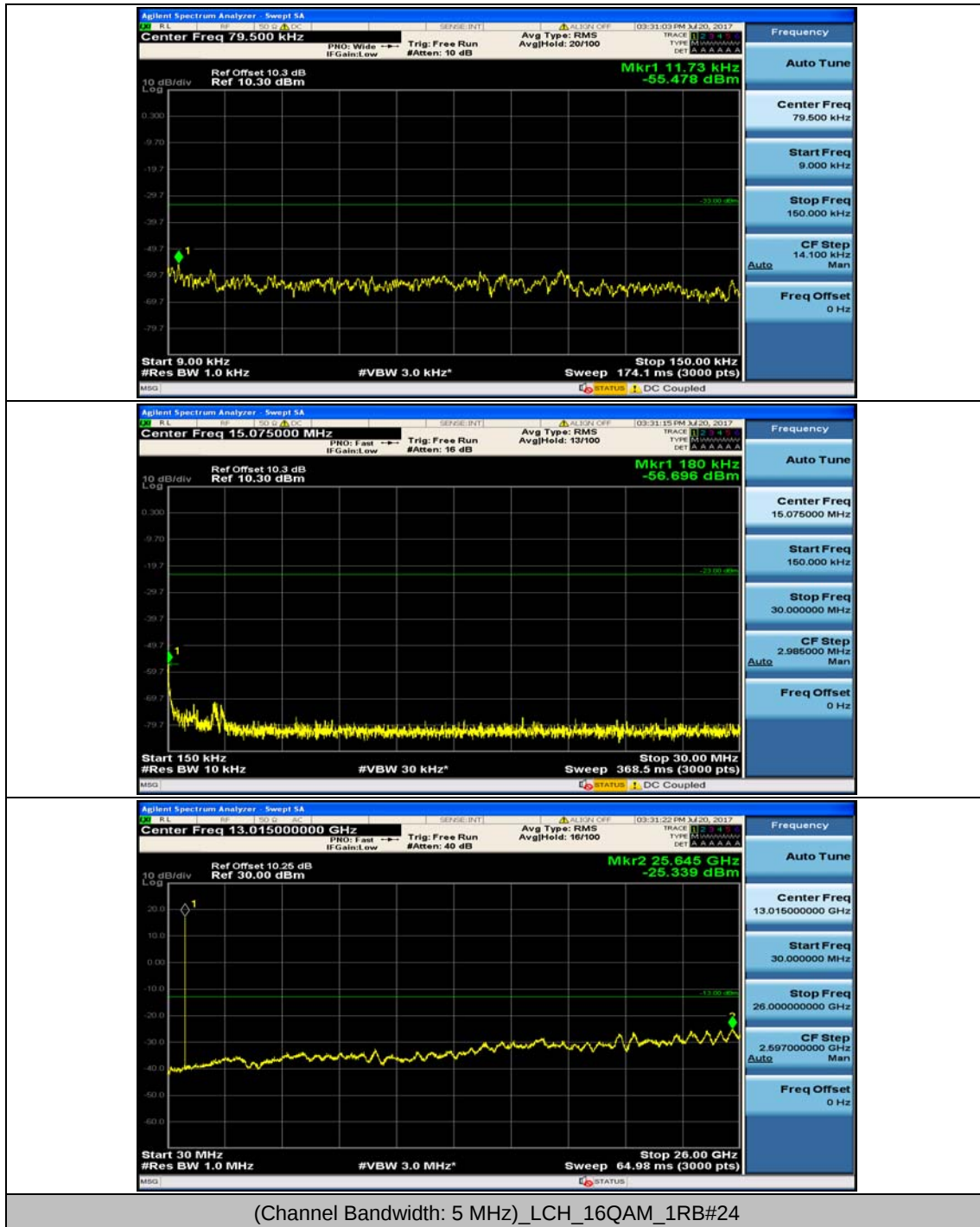


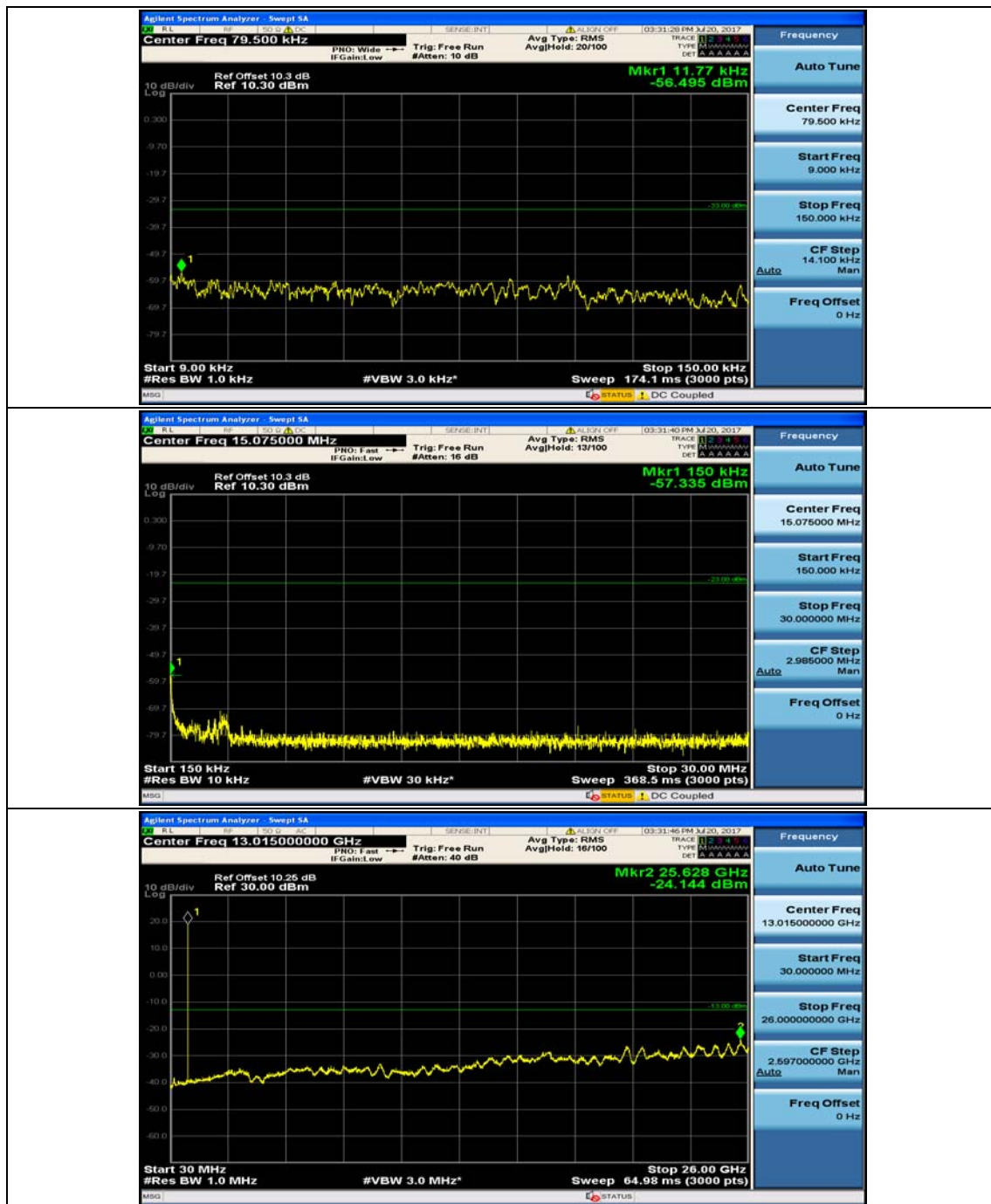


(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0

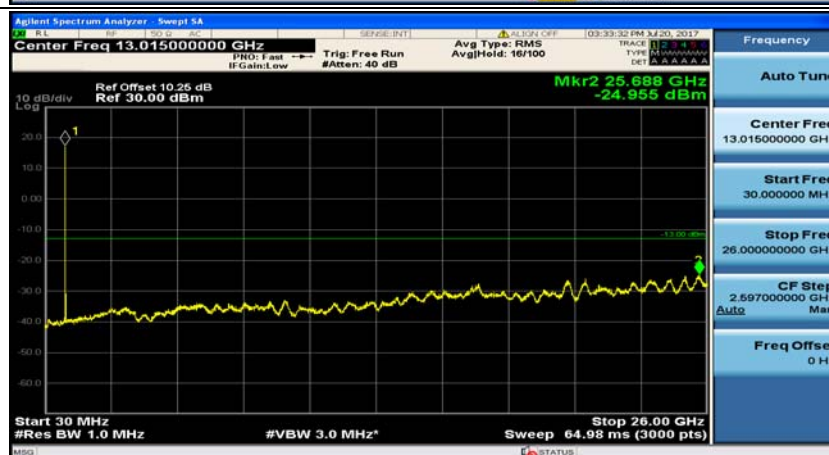
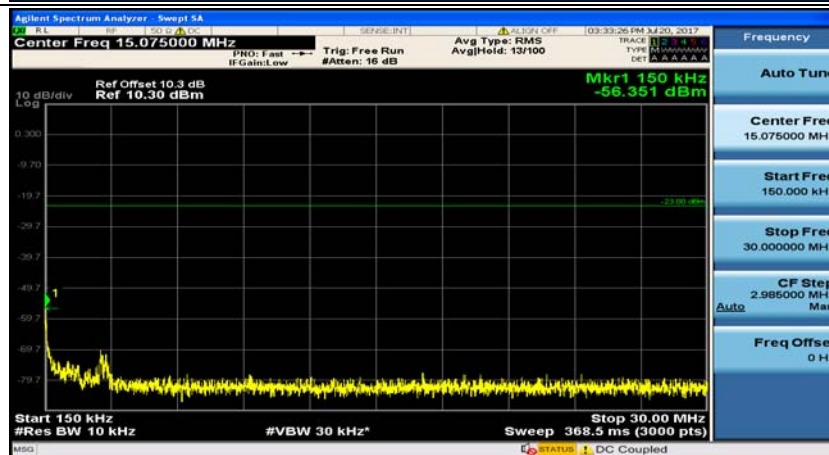
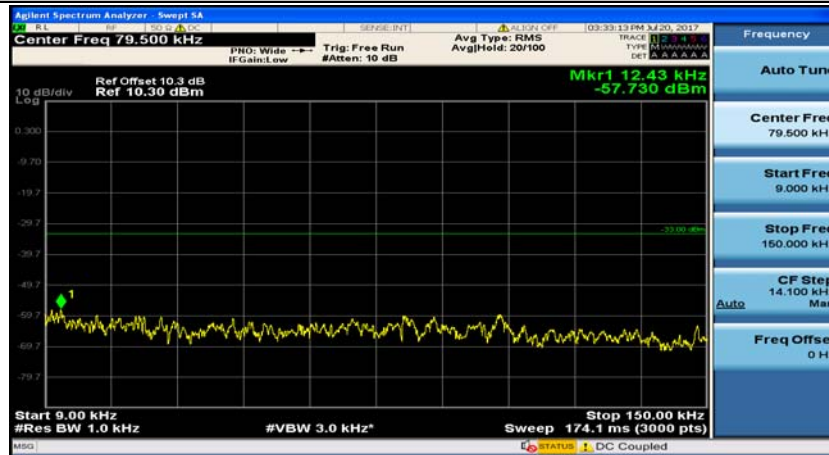


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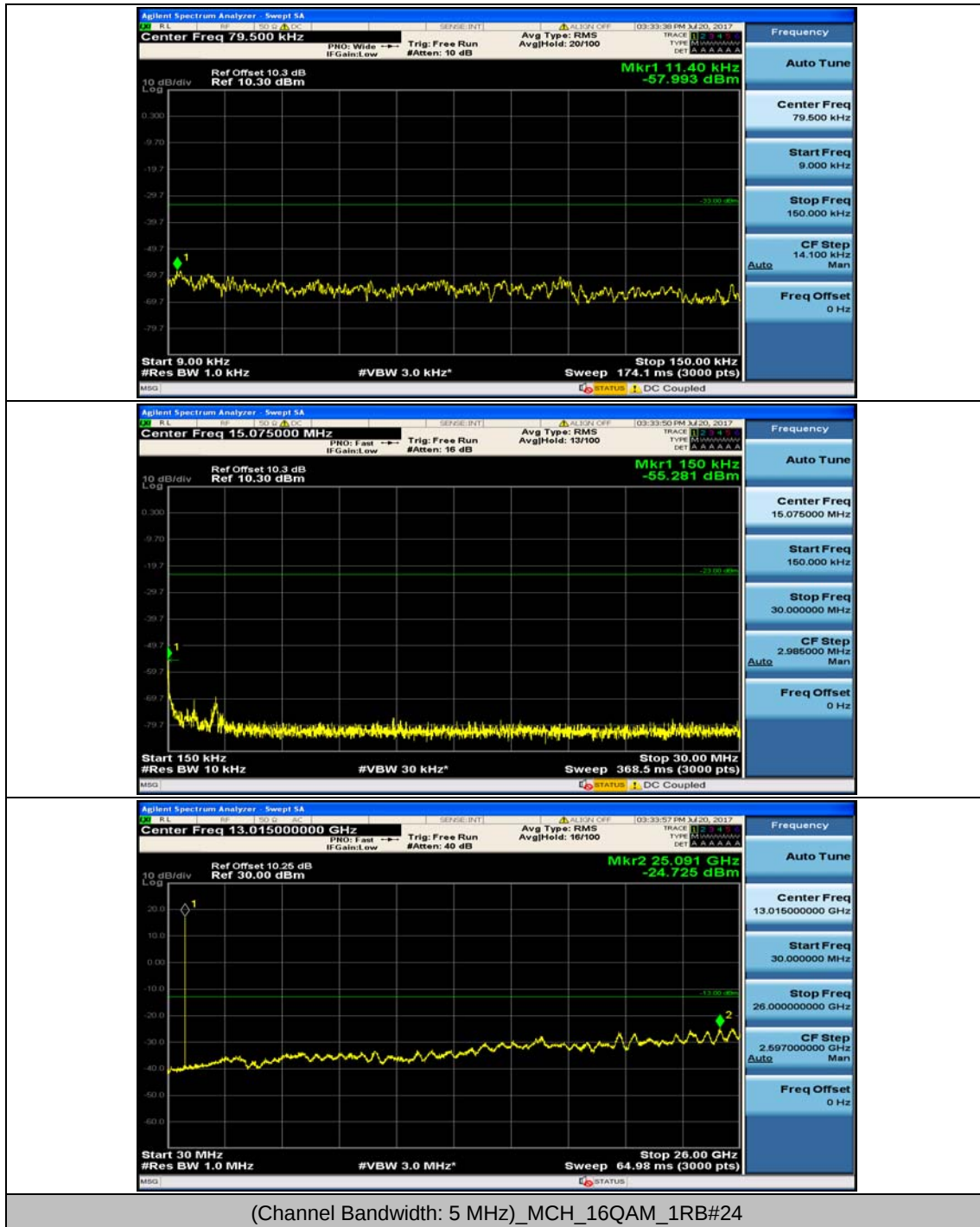


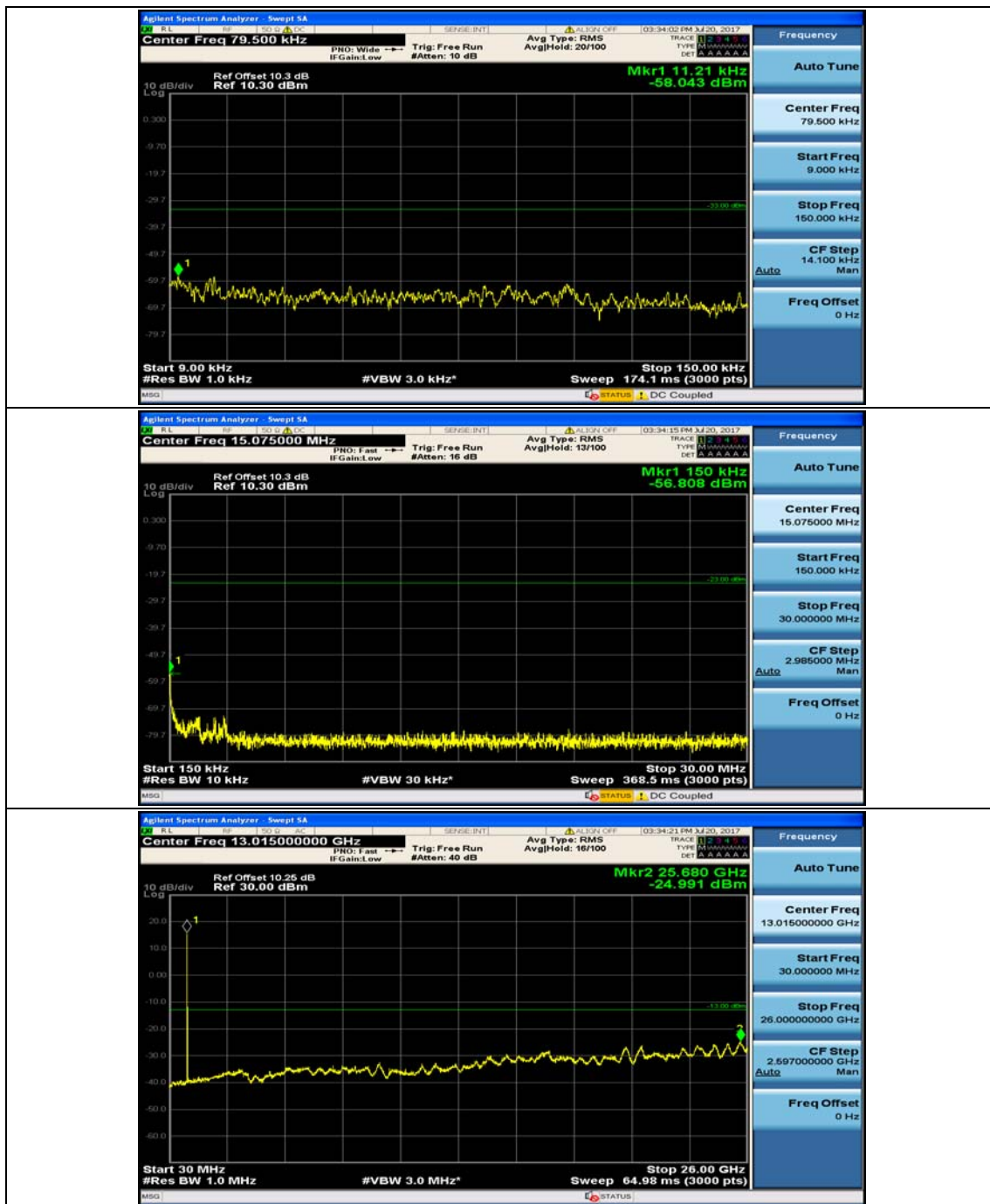


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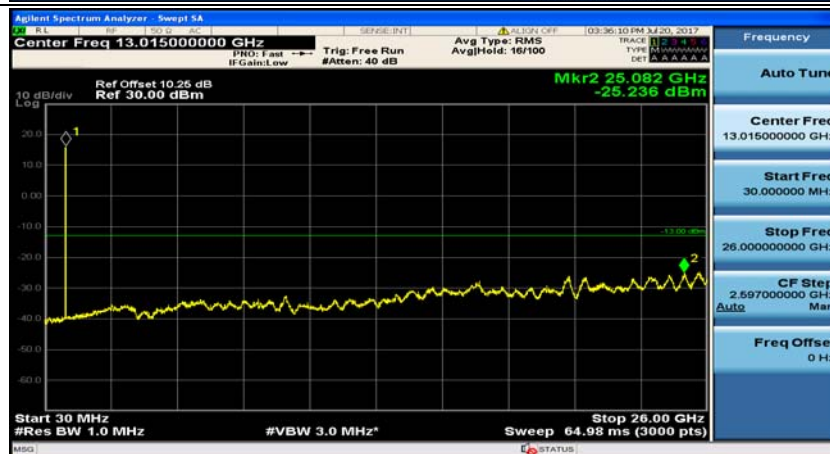
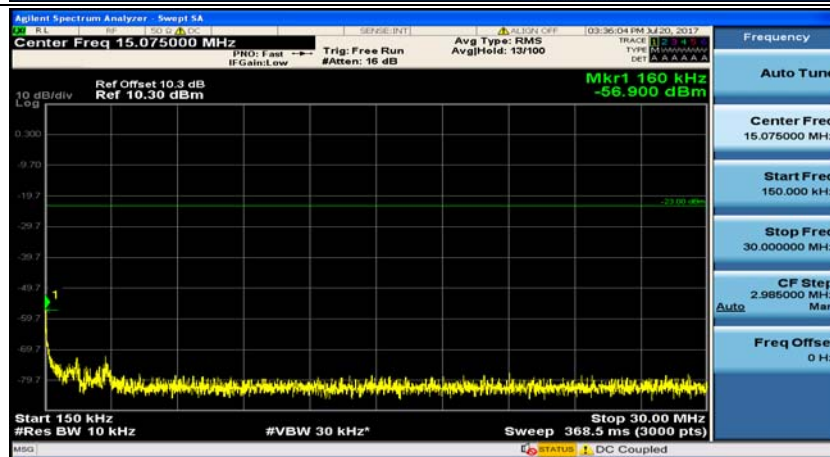
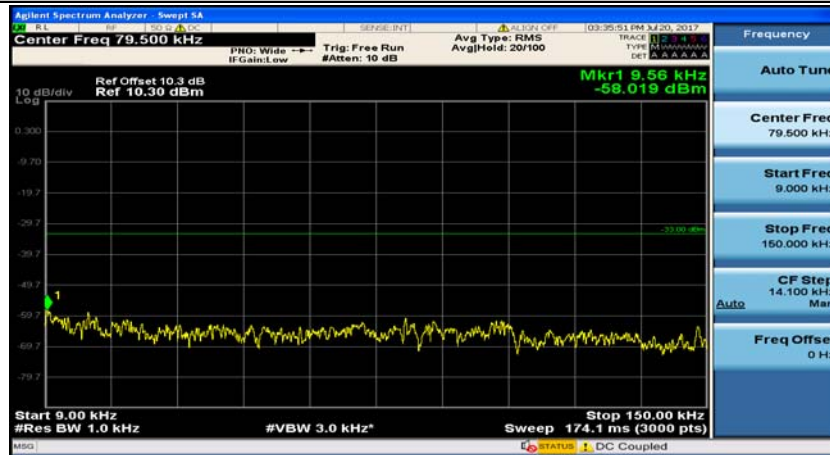


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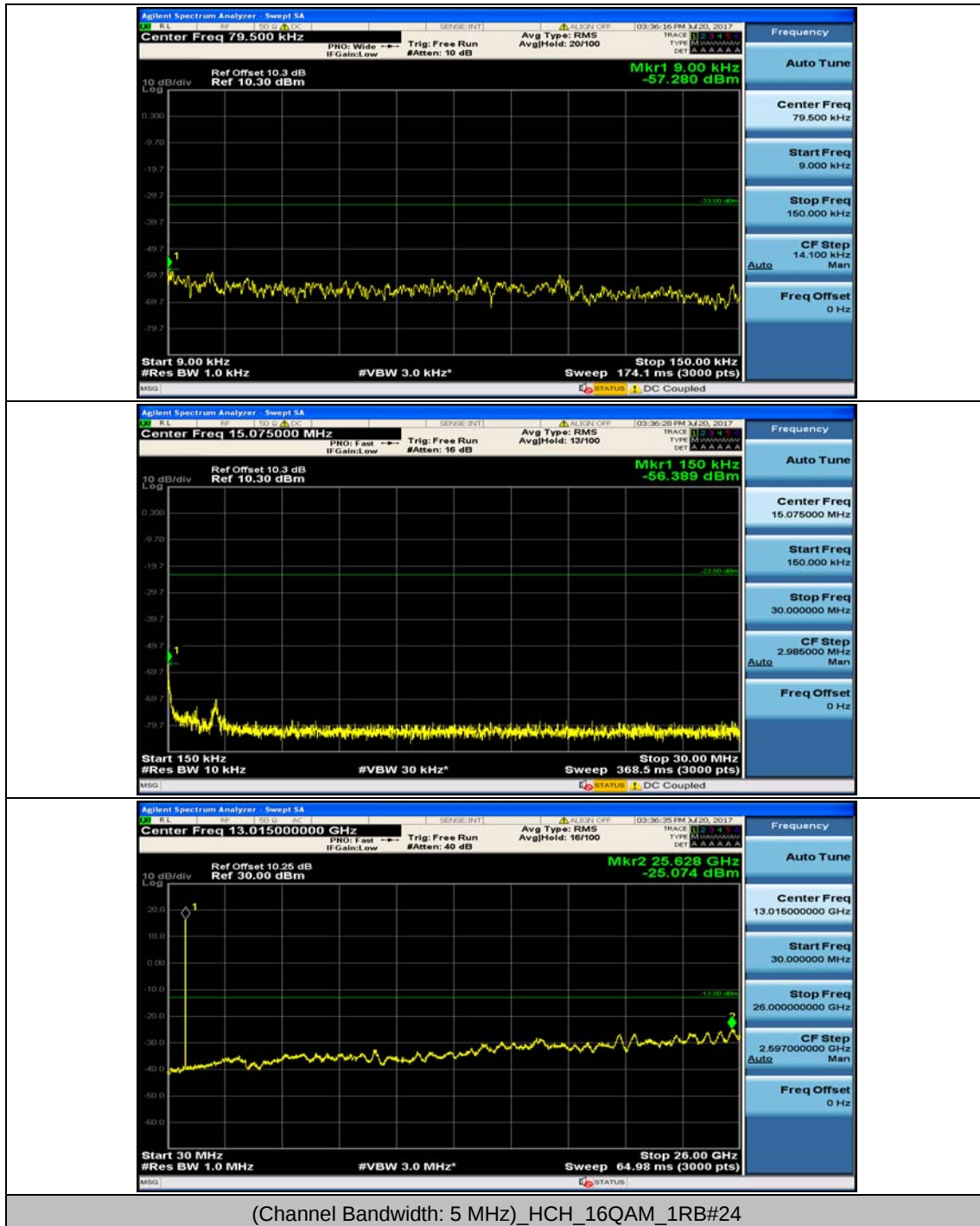


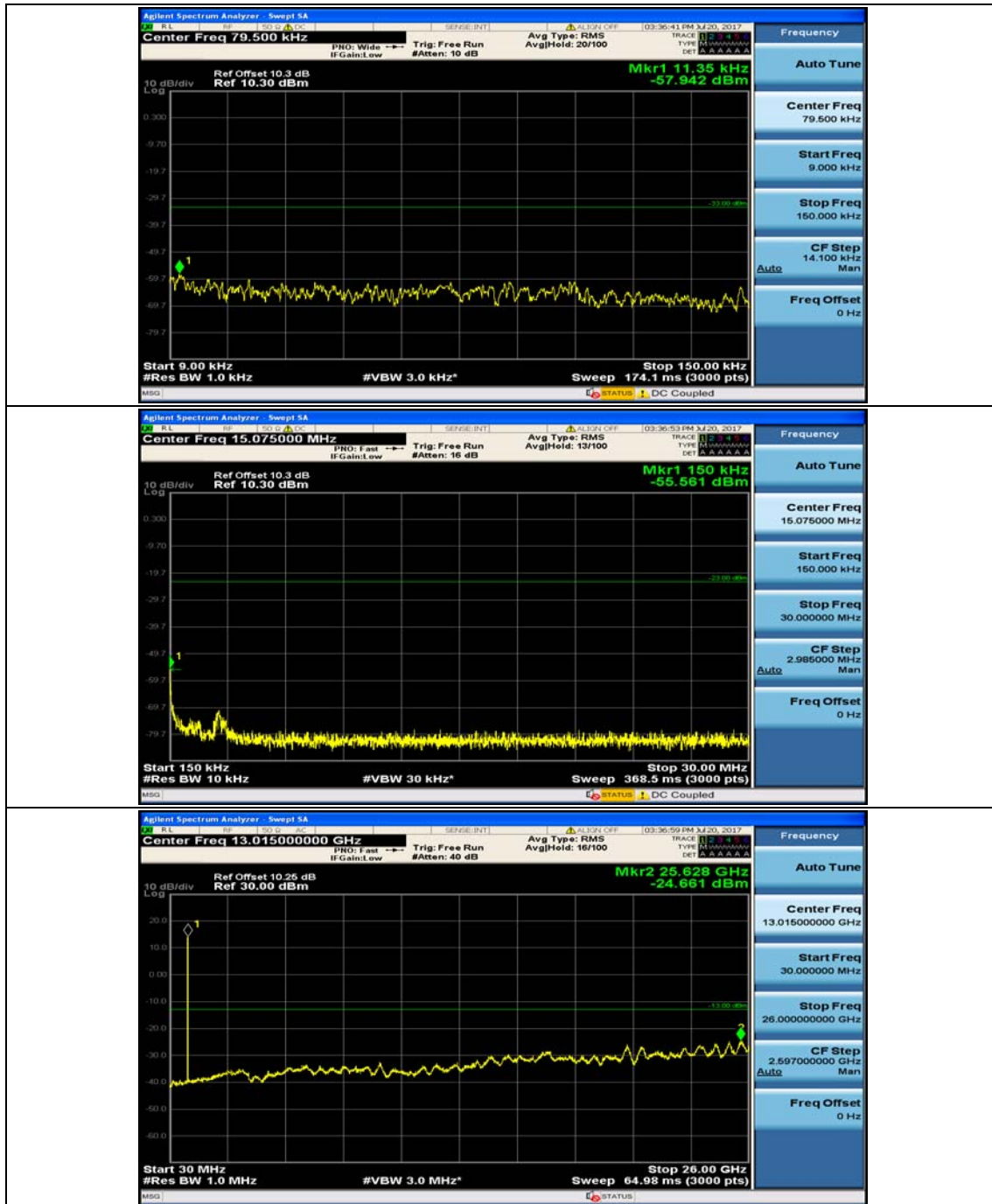


(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0

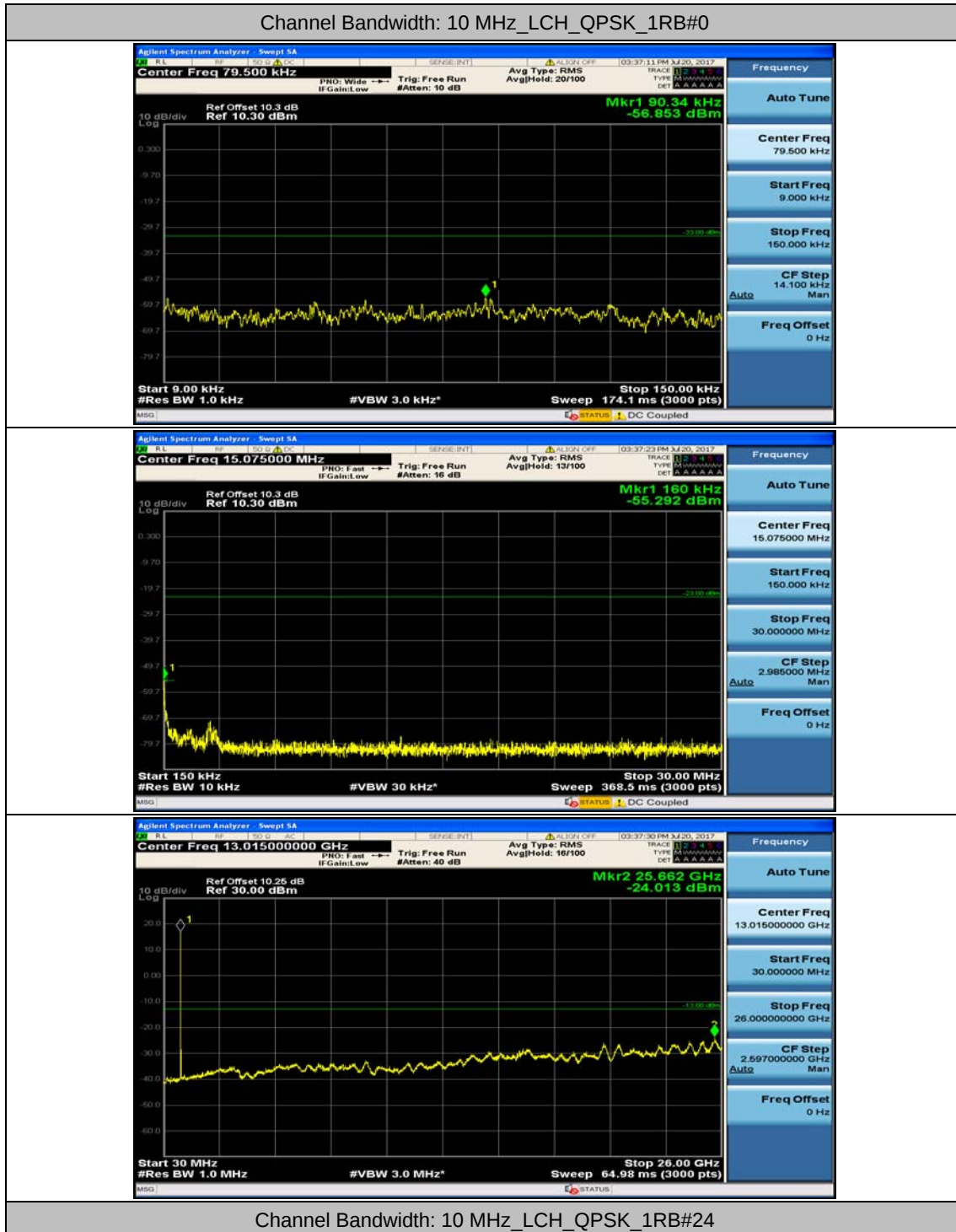


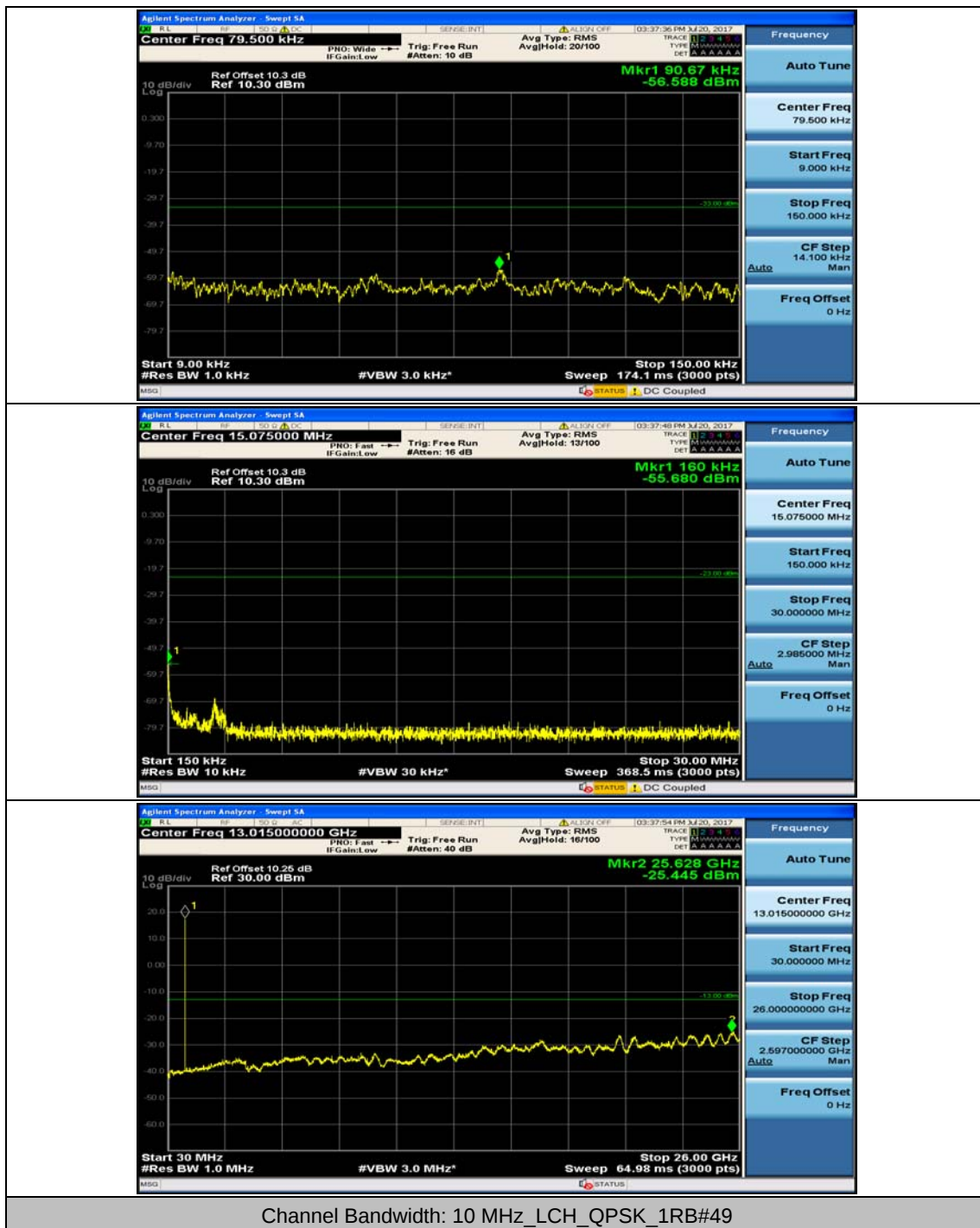
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12

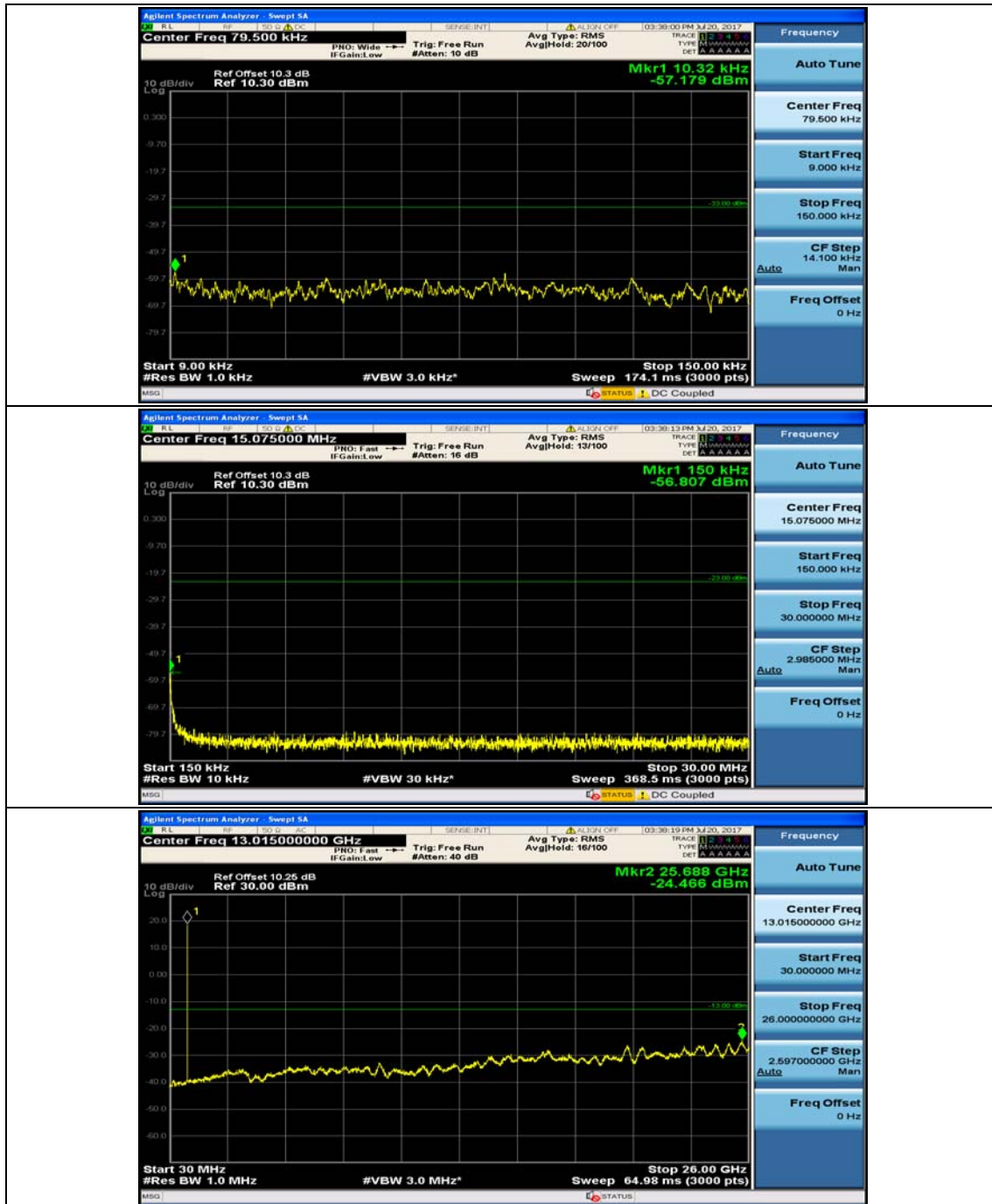




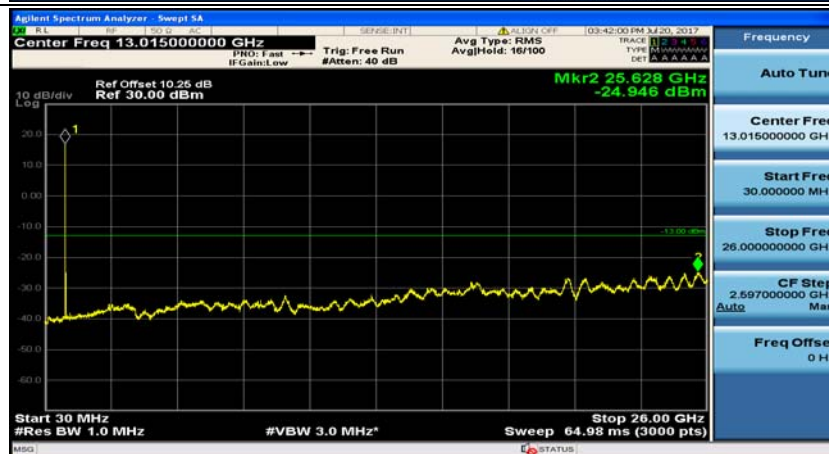
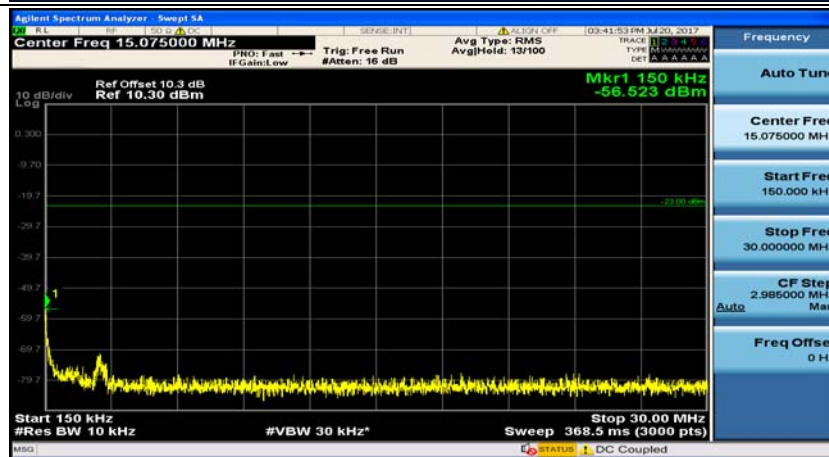
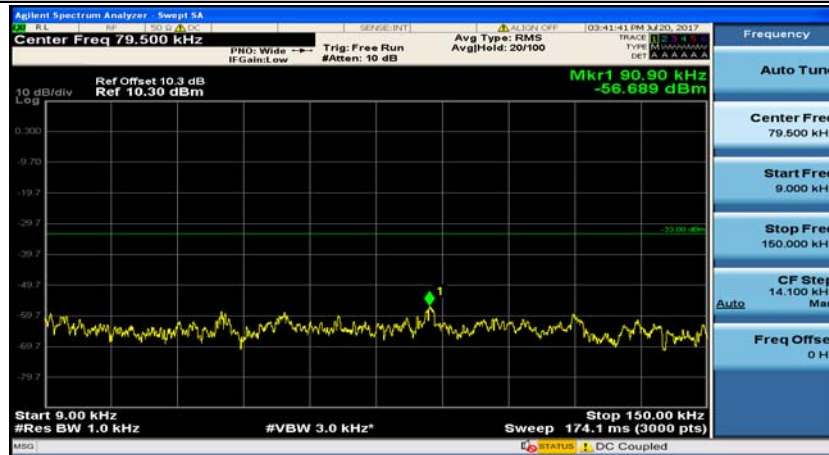
Channel Bandwidth: 10 MHz



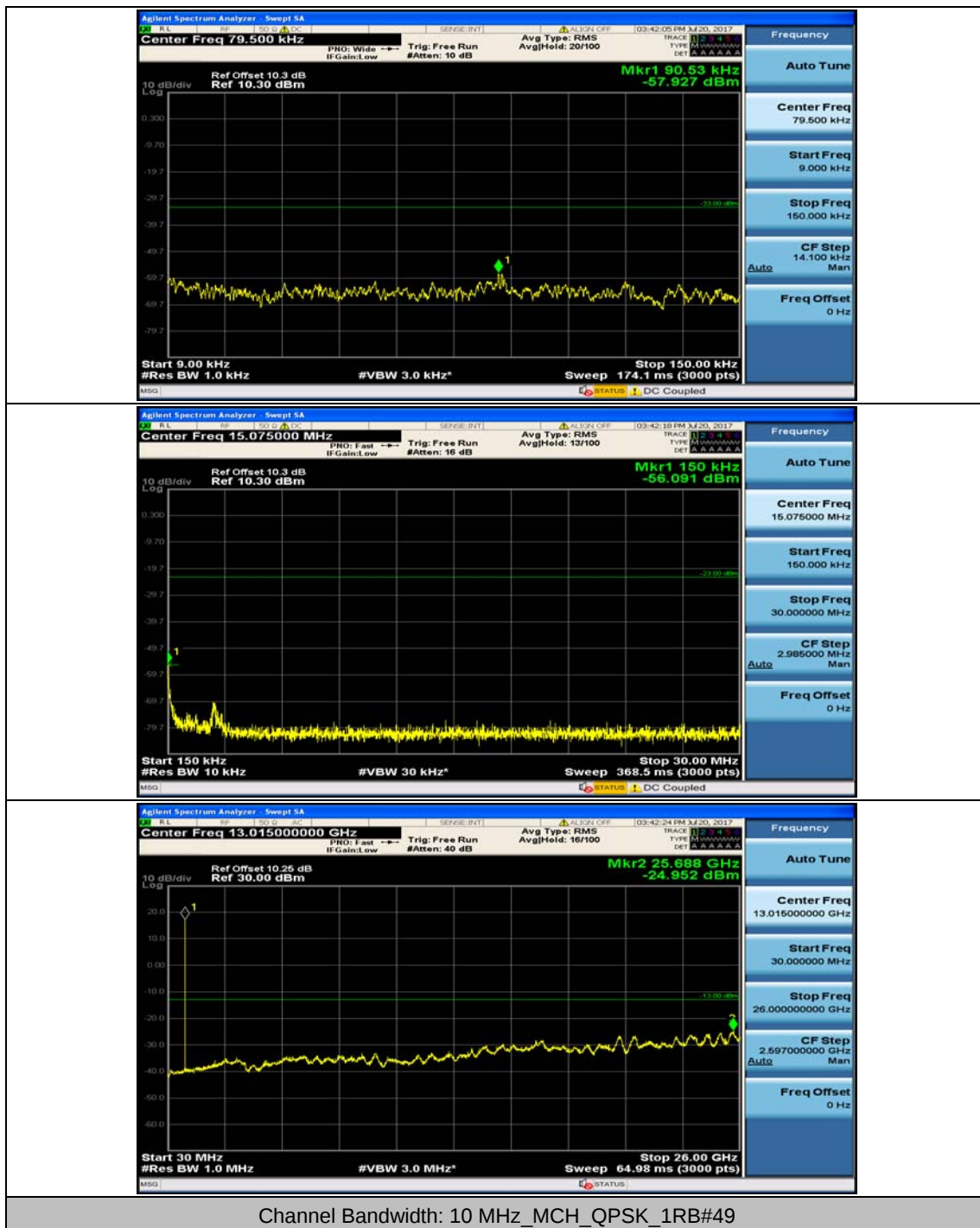


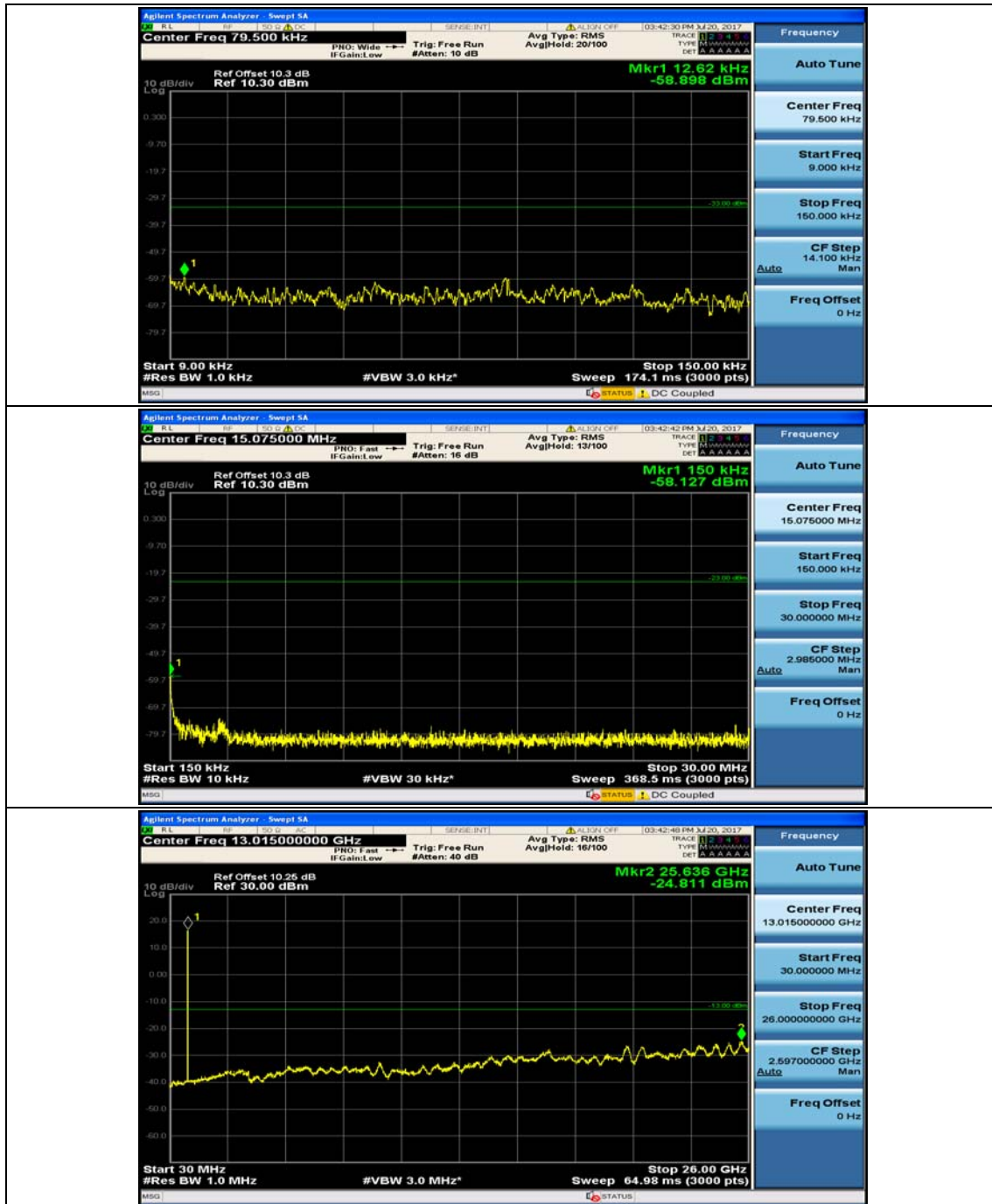


Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#0

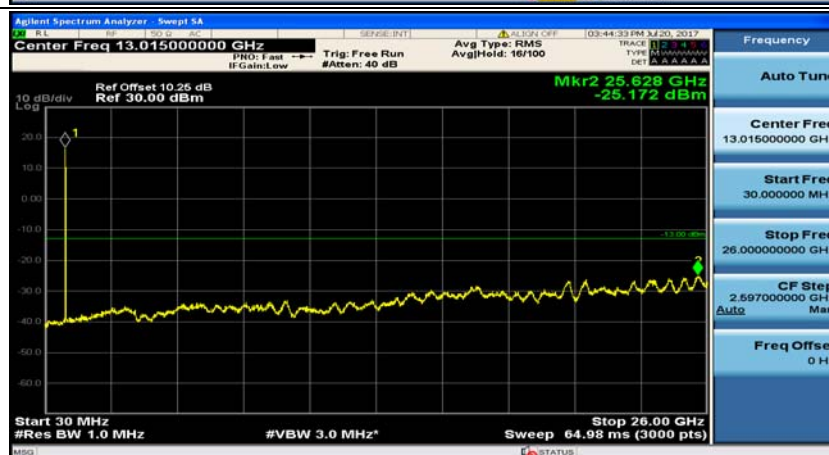
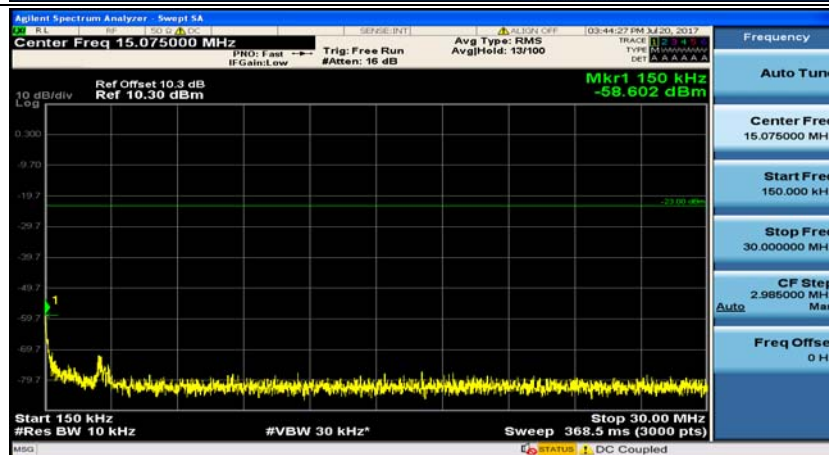
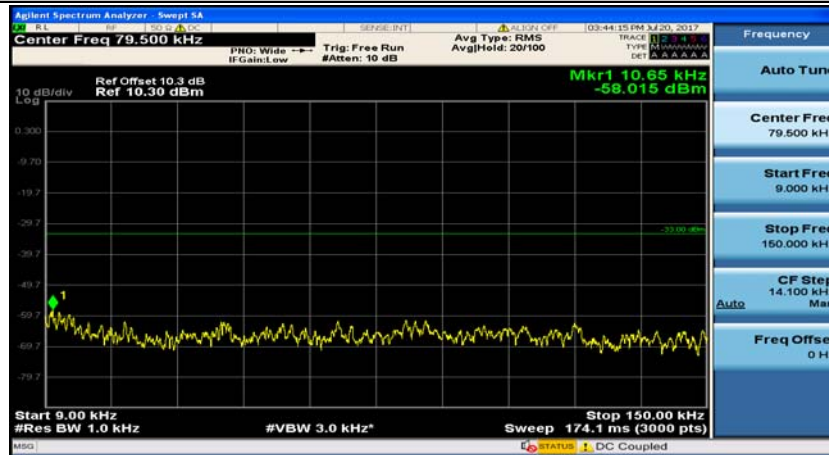


Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#24

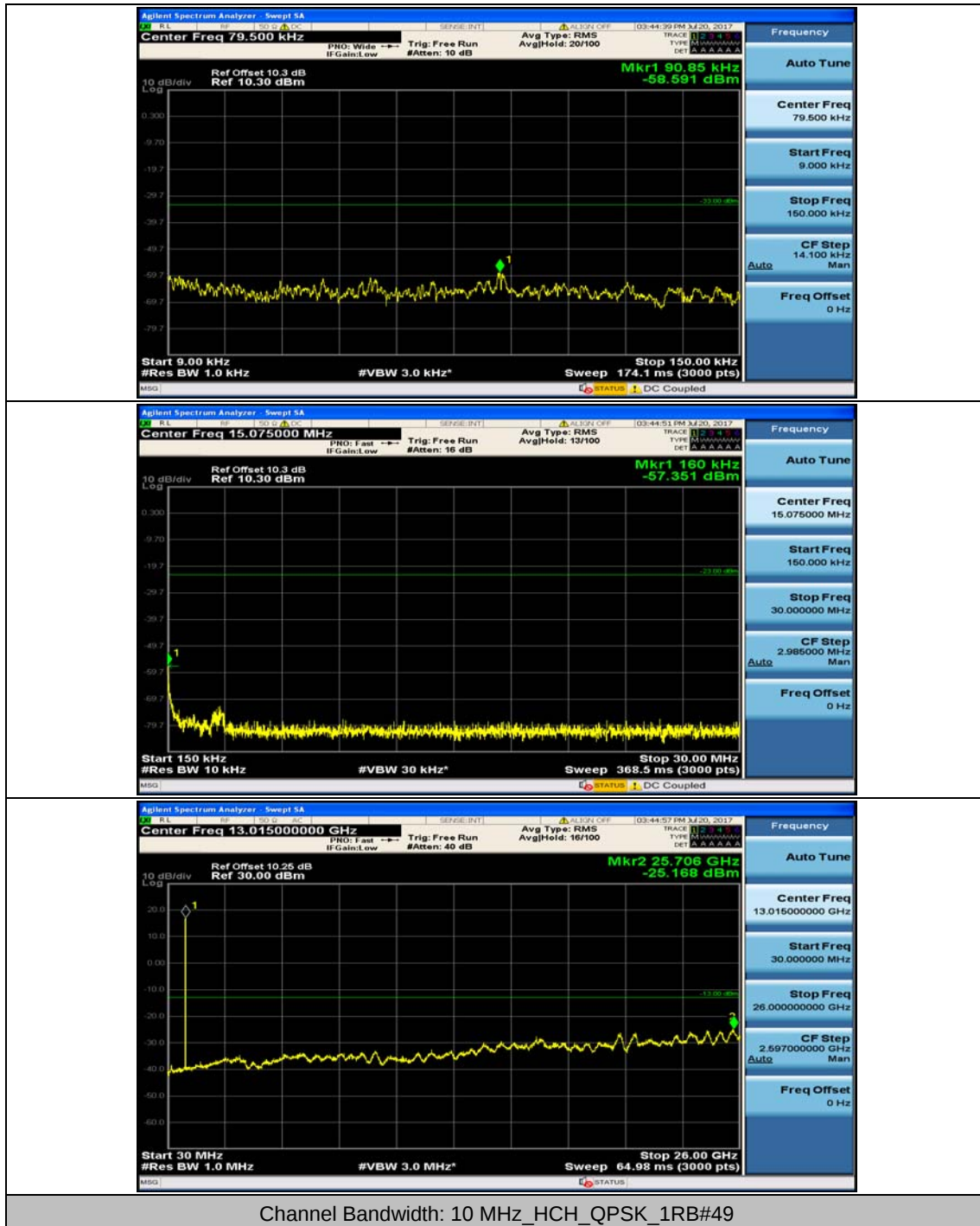


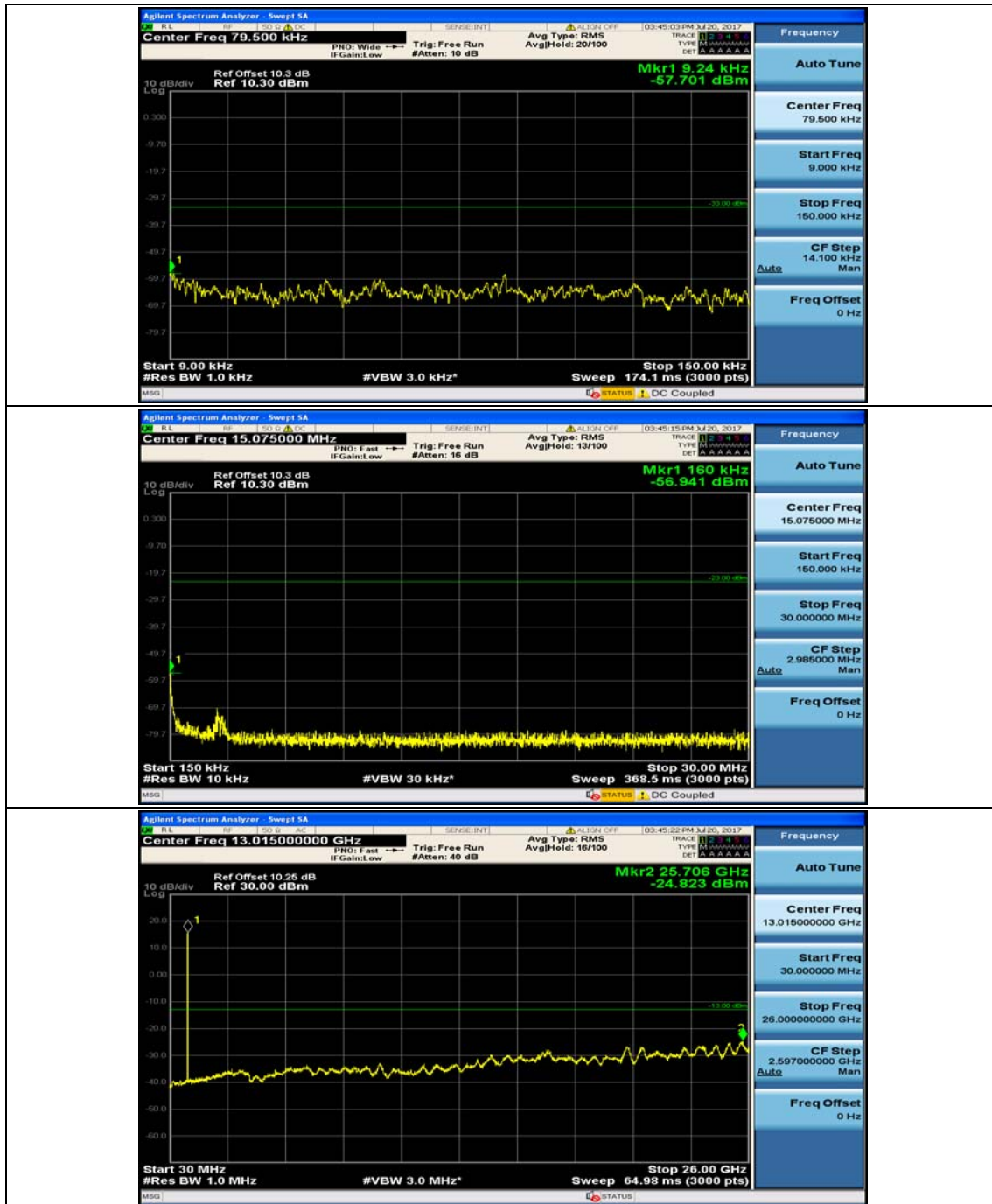


Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#0

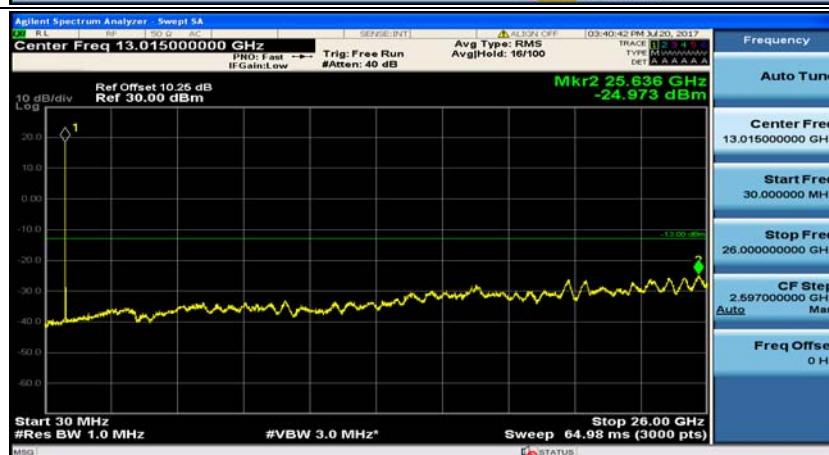
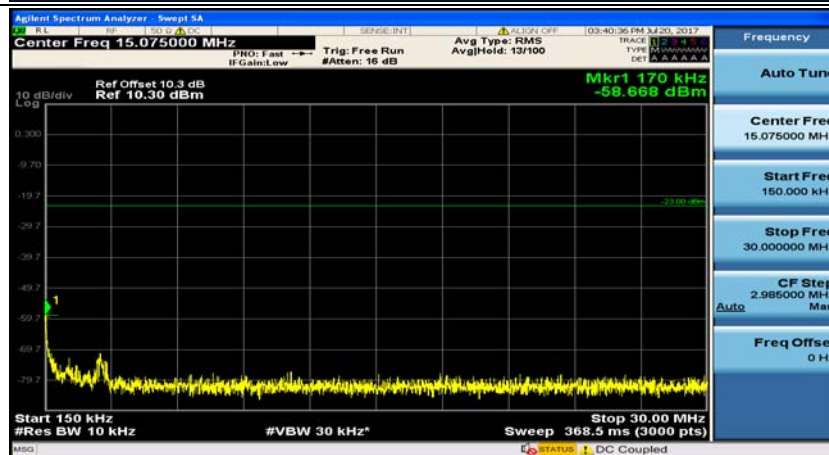
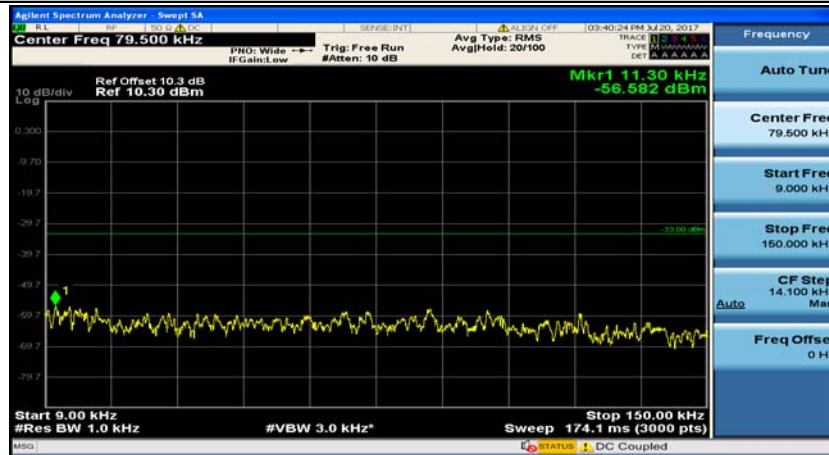


Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#24

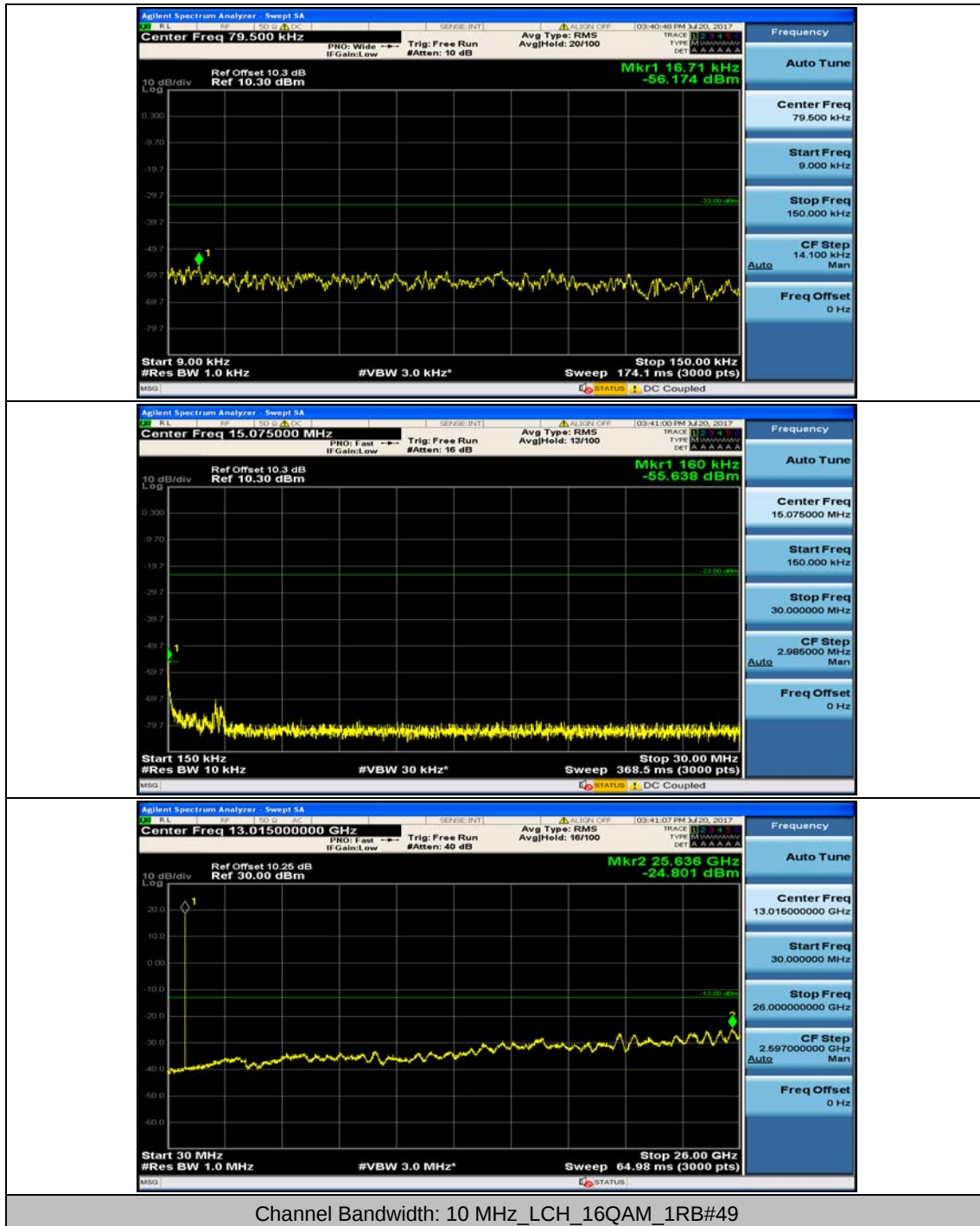


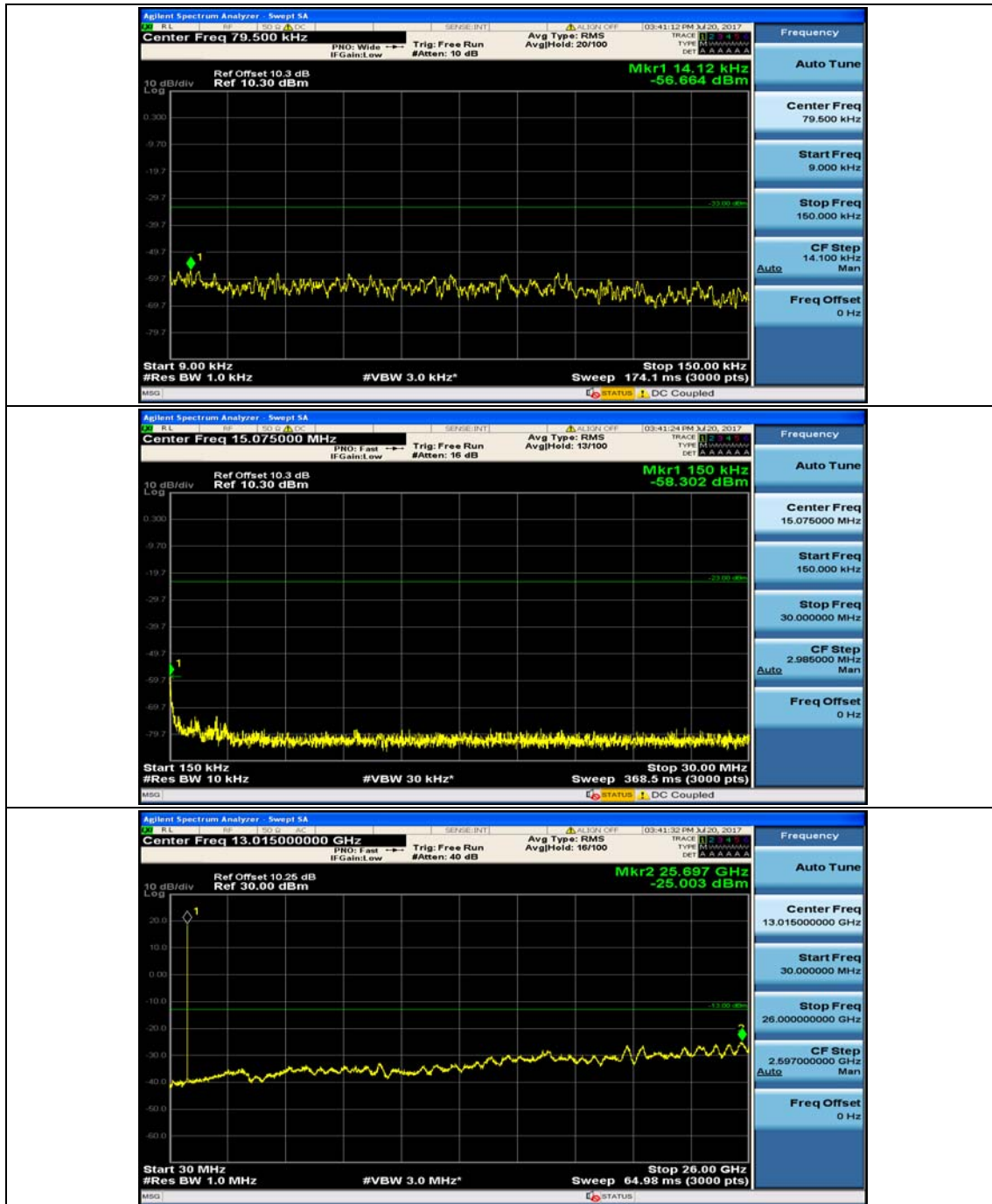


Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0

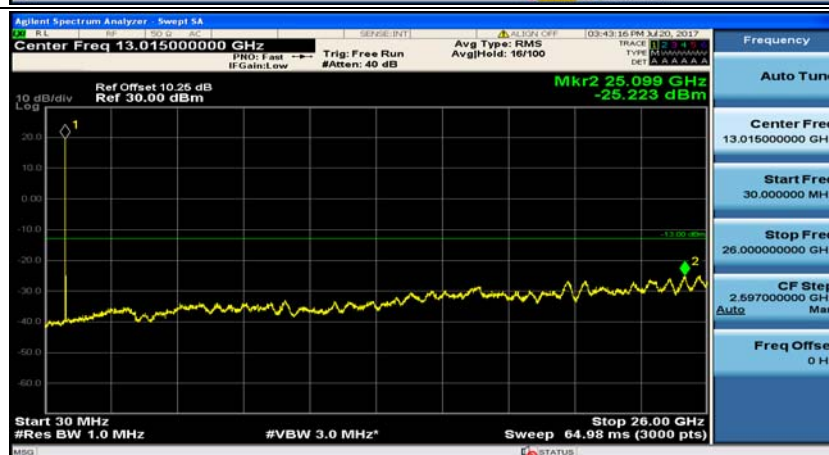
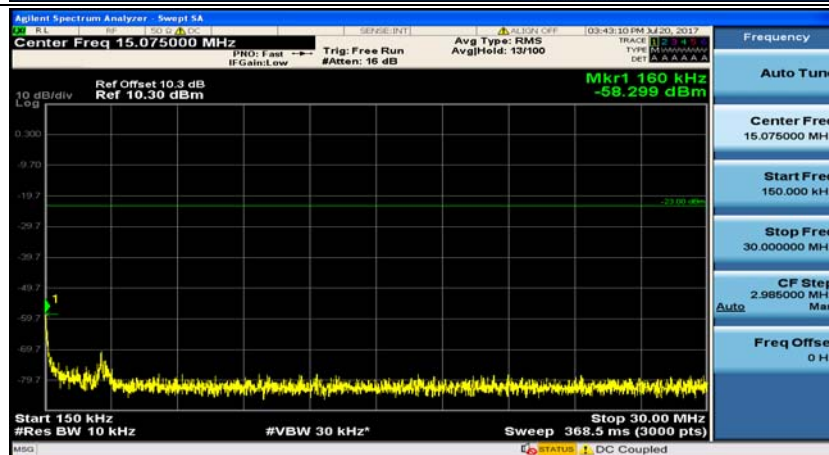
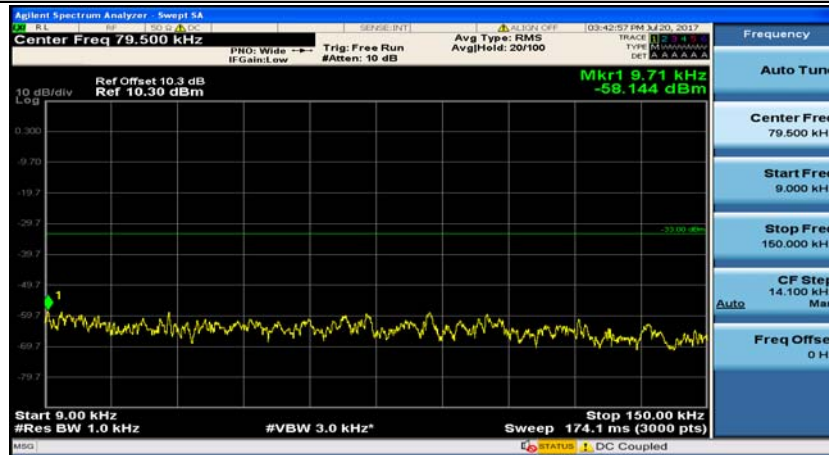


Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#24

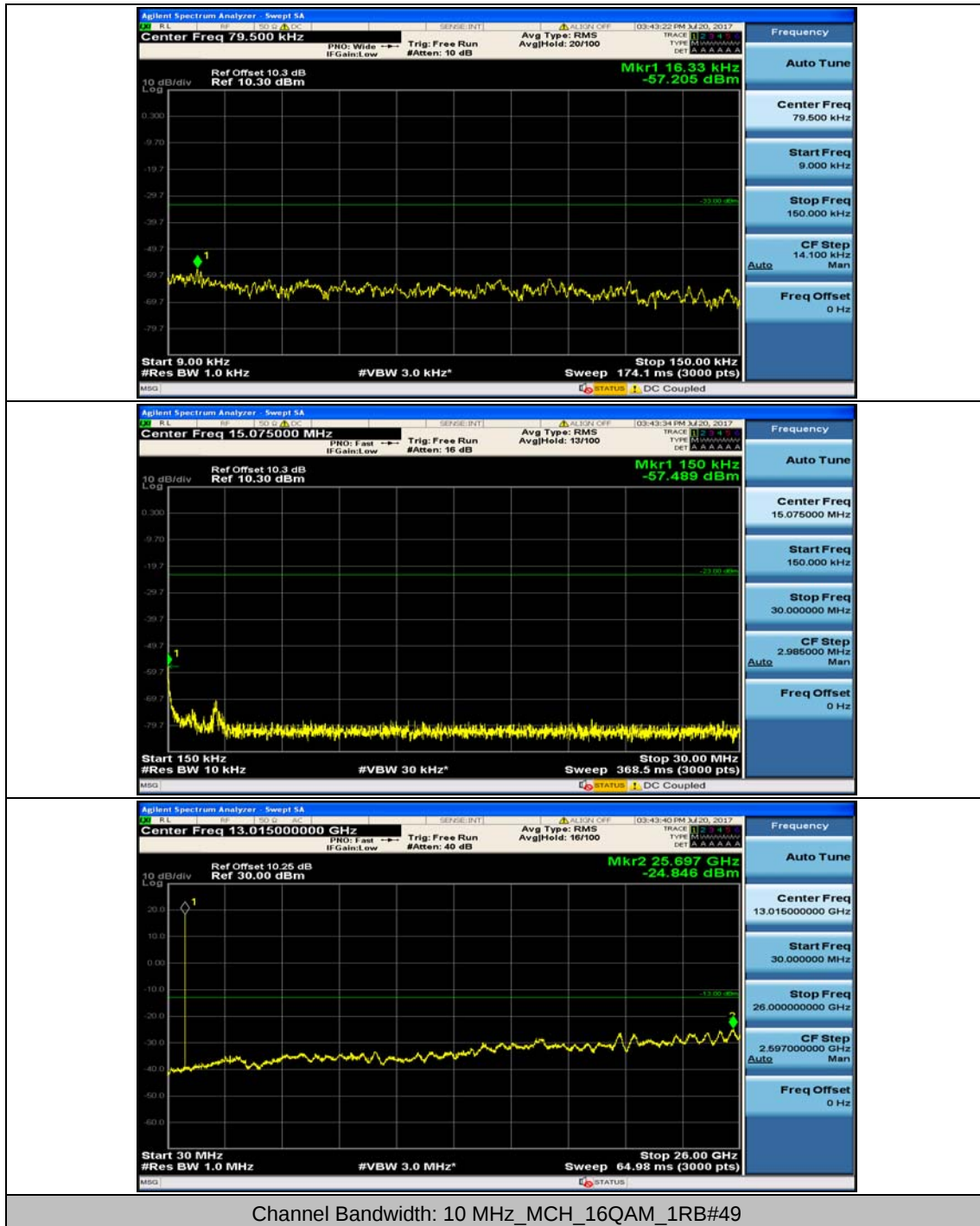


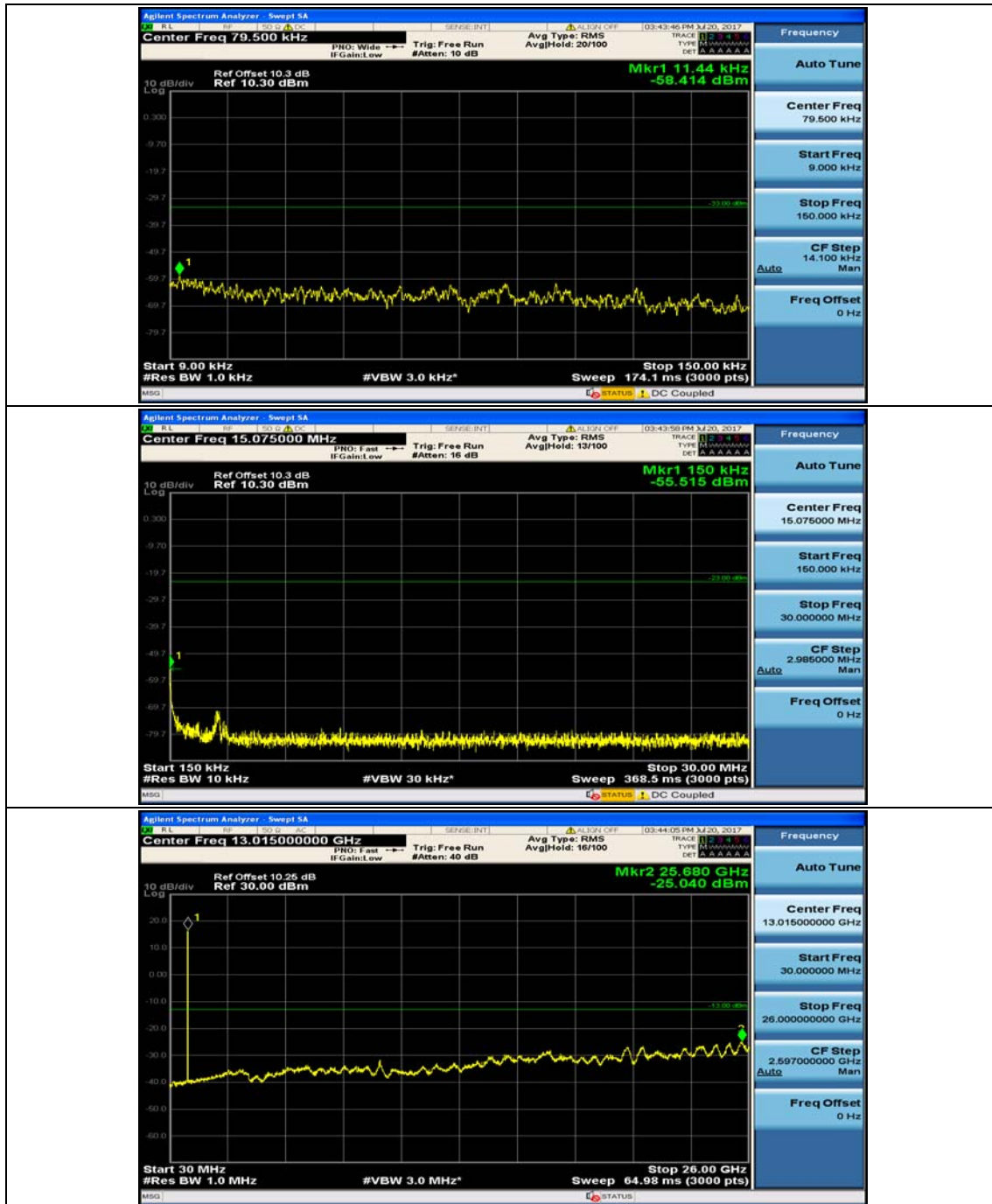


Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0

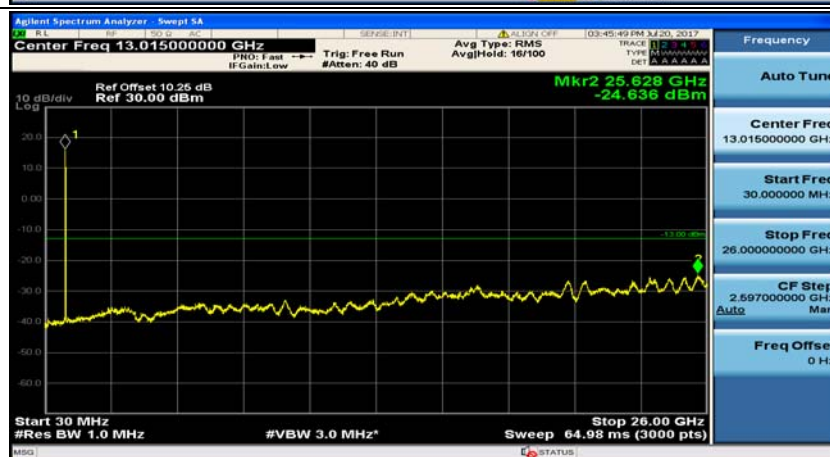
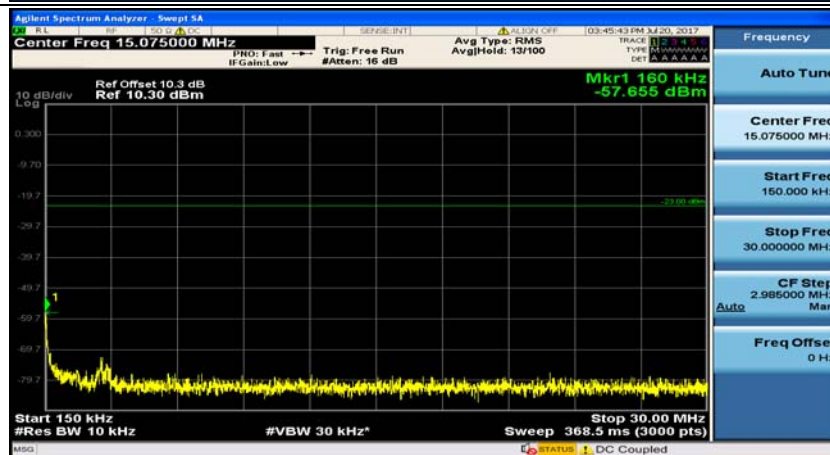
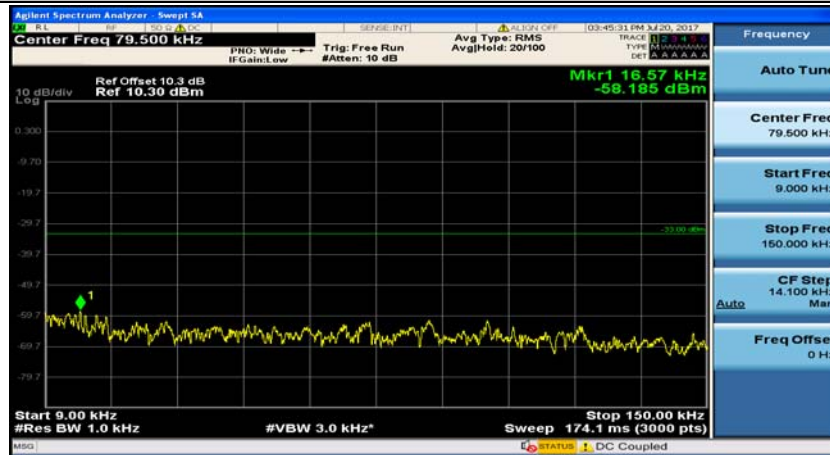


Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#24

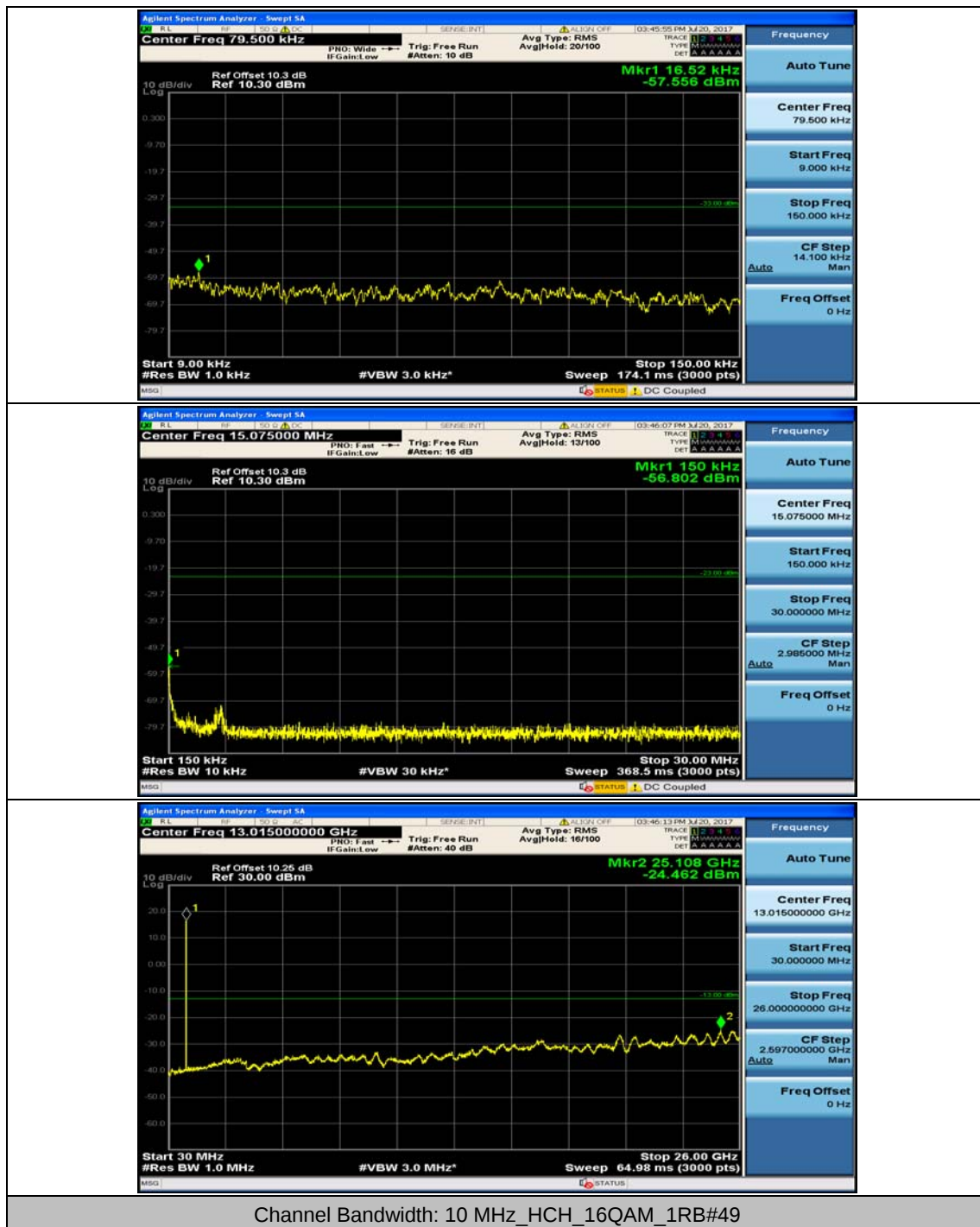


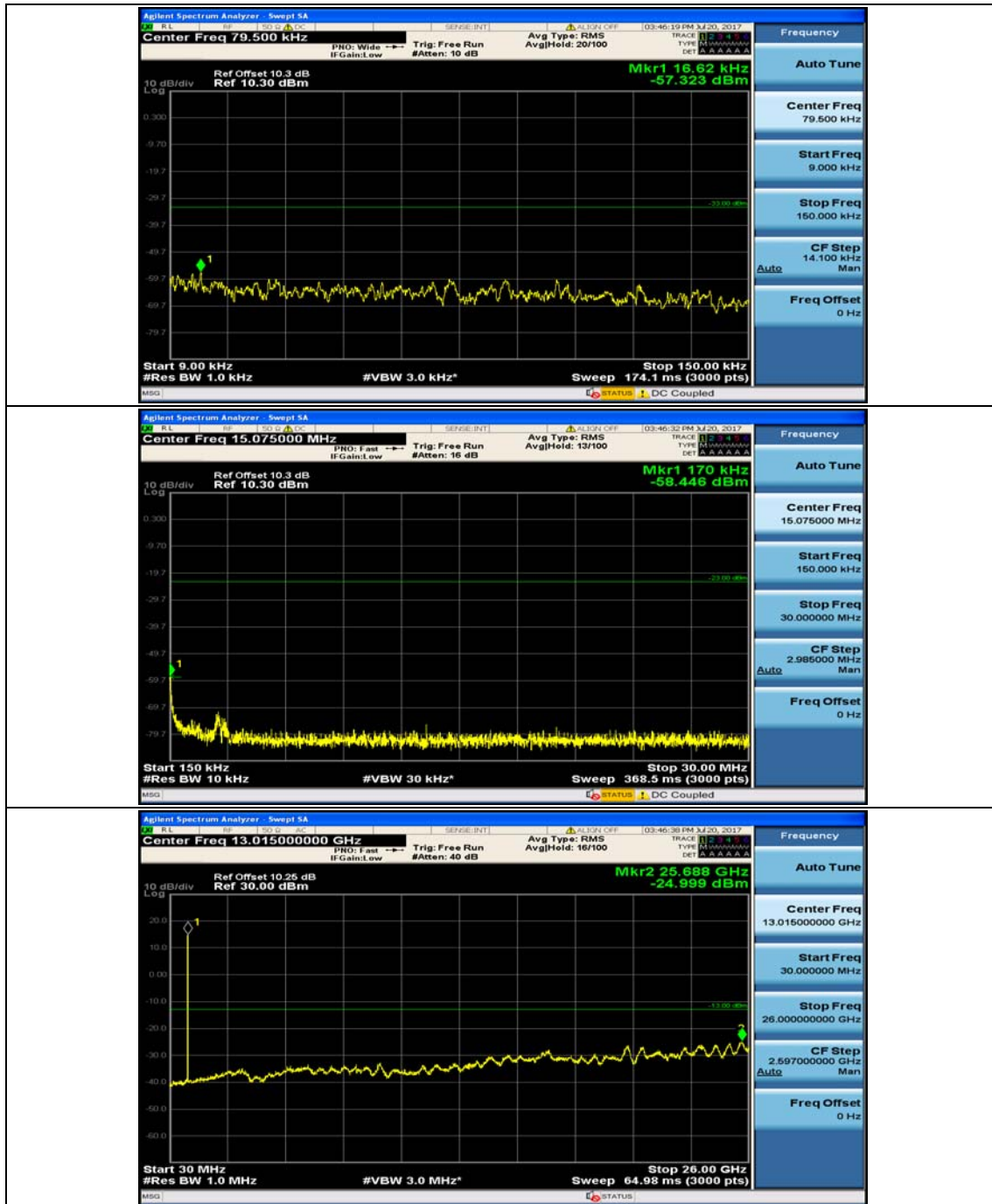


Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0



Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#24





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	4.36	0.005287	± 2.5	PASS
		VN	TN	2.62	0.003177	± 2.5	PASS
		VH	TN	2.19	0.002656	± 2.5	PASS
	MCH	VL	TN	0.93	0.001112	± 2.5	PASS
		VN	TN	4.85	0.005798	± 2.5	PASS
		VH	TN	4.26	0.005093	± 2.5	PASS
	HCH	VL	TN	2.87	0.003383	± 2.5	PASS
		VN	TN	4.94	0.005823	± 2.5	PASS
		VH	TN	-0.45	-0.000530	± 2.5	PASS
16QAM	LCH	VL	TN	-1.99	-0.002413	± 2.5	PASS
		VN	TN	3.39	0.004111	± 2.5	PASS
		VH	TN	4.47	0.005420	± 2.5	PASS
	MCH	VL	TN	3.8	0.004543	± 2.5	PASS
		VN	TN	3.37	0.004029	± 2.5	PASS
		VH	TN	0.29	0.000347	± 2.5	PASS
	HCH	VL	TN	1.73	0.002039	± 2.5	PASS
		VN	TN	-1.92	-0.002263	± 2.5	PASS
		VH	TN	3.93	0.004633	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.91	0.001103	± 2.5	PASS
		VN	-20	-0.09	-0.000109	± 2.5	PASS
		VN	-10	0.93	0.001128	± 2.5	PASS
		VN	0	1.55	0.001879	± 2.5	PASS
		VN	10	-0.33	-0.000400	± 2.5	PASS
		VN	20	2.91	0.003529	± 2.5	PASS
		VN	30	0.37	0.000449	± 2.5	PASS
		VN	40	4.49	0.005444	± 2.5	PASS
		VN	50	3.2	0.003880	± 2.5	PASS
	MCH	VN	-30	-1.5	-0.001793	± 2.5	PASS

		VN	-20	4.81	0.005750	± 2.5	PASS
		VN	-10	3.59	0.004292	± 2.5	PASS
		VN	0	0.68	0.000813	± 2.5	PASS
		VN	10	3.14	0.003754	± 2.5	PASS
		VN	20	4.32	0.005164	± 2.5	PASS
		VN	30	4.91	0.005870	± 2.5	PASS
		VN	40	2.96	0.003539	± 2.5	PASS
		VN	50	-1.34	-0.001602	± 2.5	PASS
	HCH	VN	-30	3.57	0.004208	± 2.5	PASS
		VN	-20	4.36	0.005140	± 2.5	PASS
		VN	-10	3.92	0.004621	± 2.5	PASS
		VN	0	-0.78	-0.000919	± 2.5	PASS
		VN	10	-0.17	-0.000200	± 2.5	PASS
		VN	20	0.84	0.000990	± 2.5	PASS
		VN	30	4.97	0.005859	± 2.5	PASS
		VN	40	-1.48	-0.001745	± 2.5	PASS
16QAM	LCH	VN	-30	-1.85	-0.002243	± 2.5	PASS
		VN	-20	4.87	0.005905	± 2.5	PASS
		VN	-10	4.49	0.005444	± 2.5	PASS
		VN	0	3.96	0.004802	± 2.5	PASS
		VN	10	2.18	0.002643	± 2.5	PASS
		VN	20	-0.88	-0.001067	± 2.5	PASS
		VN	30	-1.29	-0.001564	± 2.5	PASS
		VN	40	3.9	0.004729	± 2.5	PASS
		VN	50	0.5	0.000606	± 2.5	PASS
	MCH	VN	-30	-0.71	-0.000837	± 2.5	PASS
		VN	-20	-1.94	-0.002287	± 2.5	PASS
		VN	-10	0	0.000000	± 2.5	PASS
		VN	0	-0.44	-0.000519	± 2.5	PASS
		VN	10	-0.65	-0.000766	± 2.5	PASS
		VN	20	3.43	0.004043	± 2.5	PASS
		VN	30	0.45	0.000530	± 2.5	PASS
		VN	40	4.53	0.005340	± 2.5	PASS
		VN	50	3.18	0.003749	± 2.5	PASS
	HCH	VN	-30	4.35	0.005128	± 2.5	PASS
		VN	-20	0.71	0.000837	± 2.5	PASS
		VN	-10	1.54	0.001815	± 2.5	PASS
		VN	0	3.94	0.004645	± 2.5	PASS
		VN	10	1.95	0.002299	± 2.5	PASS
		VN	20	3.85	0.004538	± 2.5	PASS

		VN	30	2.49	0.002935	± 2.5	PASS
		VN	40	0.62	0.000731	± 2.5	PASS
		VN	50	-0.65	-0.000766	± 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	1.82	0.002207	± 2.5	PASS
		VN	TN	-1.81	-0.002195	± 2.5	PASS
		VH	TN	1.87	0.002267	± 2.5	PASS
	MCH	VL	TN	4.6	0.005499	± 2.5	PASS
		VN	TN	4.1	0.004901	± 2.5	PASS
		VH	TN	1.6	0.001913	± 2.5	PASS
	HCH	VL	TN	4.33	0.005104	± 2.5	PASS
		VN	TN	3.23	0.003808	± 2.5	PASS
		VH	TN	4.47	0.005269	± 2.5	PASS
16QAM	LCH	VL	TN	-0.35	-0.000424	± 2.5	PASS
		VN	TN	-0.64	-0.000776	± 2.5	PASS
		VH	TN	-1.86	-0.002255	± 2.5	PASS
	MCH	VL	TN	0.89	0.001064	± 2.5	PASS
		VN	TN	2.97	0.003551	± 2.5	PASS
		VH	TN	4.24	0.005069	± 2.5	PASS
	HCH	VL	TN	1.56	0.001839	± 2.5	PASS
		VN	TN	2.75	0.003242	± 2.5	PASS
		VH	TN	1.03	0.001214	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.88	0.001067	± 2.5	PASS
		VN	-20	-0.22	-0.000267	± 2.5	PASS
		VN	-10	1.96	0.002377	± 2.5	PASS
		VN	0	-1.73	-0.002098	± 2.5	PASS
		VN	10	-1.48	-0.001795	± 2.5	PASS
		VN	20	2.11	0.002559	± 2.5	PASS
		VN	30	1.03	0.001249	± 2.5	PASS
		VN	40	4.25	0.005153	± 2.5	PASS
		VN	50	4.11	0.004984	± 2.5	PASS
	MCH	VN	-30	4.85	0.005798	± 2.5	PASS
		VN	-20	-0.51	-0.000610	± 2.5	PASS

		VN	-10	0.96	0.001148	± 2.5	PASS
		VN	0	2.39	0.002857	± 2.5	PASS
		VN	10	2.7	0.003228	± 2.5	PASS
		VN	20	1.74	0.002080	± 2.5	PASS
		VN	30	3.87	0.004626	± 2.5	PASS
		VN	40	-1.07	-0.001279	± 2.5	PASS
		VN	50	-0.73	-0.000873	± 2.5	PASS
	HCH	VN	-30	4.2	0.004951	± 2.5	PASS
		VN	-20	0.55	0.000648	± 2.5	PASS
		VN	-10	4.29	0.005057	± 2.5	PASS
		VN	0	4.81	0.005670	± 2.5	PASS
		VN	10	-1.03	-0.001214	± 2.5	PASS
		VN	20	-1.95	-0.002299	± 2.5	PASS
		VN	30	4.17	0.004916	± 2.5	PASS
		VN	40	0.67	0.000790	± 2.5	PASS
		VN	50	4.54	0.005352	± 2.5	PASS
16QAM	LCH	VN	-30	-0.5	-0.000606	± 2.5	PASS
		VN	-20	3.34	0.004050	± 2.5	PASS
		VN	-10	1.42	0.001722	± 2.5	PASS
		VN	0	-1.04	-0.001261	± 2.5	PASS
		VN	10	4.07	0.004935	± 2.5	PASS
		VN	20	2.66	0.003225	± 2.5	PASS
		VN	30	-1.86	-0.002255	± 2.5	PASS
		VN	40	4.39	0.005323	± 2.5	PASS
		VN	50	0.12	0.000146	± 2.5	PASS
	MCH	VN	-30	2.17	0.002558	± 2.5	PASS
		VN	-20	-1.53	-0.001804	± 2.5	PASS
		VN	-10	4.13	0.004869	± 2.5	PASS
		VN	0	1.04	0.001226	± 2.5	PASS
		VN	10	4.3	0.005069	± 2.5	PASS
		VN	20	1.12	0.001320	± 2.5	PASS
		VN	30	-0.54	-0.000637	± 2.5	PASS
		VN	40	2.29	0.002700	± 2.5	PASS
		VN	50	-0.42	-0.000495	± 2.5	PASS
	HCH	VN	-30	0.53	0.000625	± 2.5	PASS
		VN	-20	1.05	0.001238	± 2.5	PASS
		VN	-10	3.09	0.003643	± 2.5	PASS
		VN	0	0.03	0.000035	± 2.5	PASS
		VN	10	4.12	0.004857	± 2.5	PASS
		VN	20	4.86	0.005729	± 2.5	PASS
		VN	30	-0.07	-0.000083	± 2.5	PASS

		VN	40	4.06	0.004786	± 2.5	PASS
		VN	50	1.41	0.001662	± 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	2.1	0.002546	± 2.5	PASS
		VN	TN	-0.08	-0.000097	± 2.5	PASS
		VH	TN	4.8	0.005820	± 2.5	PASS
	MCH	VL	TN	-0.99	-0.001184	± 2.5	PASS
		VN	TN	1.8	0.002152	± 2.5	PASS
		VH	TN	2.67	0.003192	± 2.5	PASS
	HCH	VL	TN	3.38	0.003984	± 2.5	PASS
		VN	TN	-1.09	-0.001285	± 2.5	PASS
		VH	TN	1.31	0.001544	± 2.5	PASS
16QAM	LCH	VL	TN	0.61	0.000740	± 2.5	PASS
		VN	TN	2.31	0.002801	± 2.5	PASS
		VH	TN	-1.7	-0.002061	± 2.5	PASS
	MCH	VL	TN	3.03	0.003622	± 2.5	PASS
		VN	TN	1.14	0.001363	± 2.5	PASS
		VH	TN	4.64	0.005547	± 2.5	PASS
	HCH	VL	TN	2.71	0.003195	± 2.5	PASS
		VN	TN	1.46	0.001721	± 2.5	PASS
		VH	TN	0.87	0.001026	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.65	0.004426	± 2.5	PASS
		VN	-20	1.54	0.001867	± 2.5	PASS
		VN	-10	1.04	0.001261	± 2.5	PASS
		VN	0	2.09	0.002534	± 2.5	PASS
		VN	10	4.06	0.004923	± 2.5	PASS
		VN	20	-1.48	-0.001795	± 2.5	PASS
		VN	30	-1.01	-0.001225	± 2.5	PASS
		VN	40	-0.09	-0.000109	± 2.5	PASS
		VN	50	3.27	0.003965	± 2.5	PASS
	MCH	VN	-30	2.42	0.002893	± 2.5	PASS
		VN	-20	2.5	0.002989	± 2.5	PASS
		VN	-10	3.52	0.004208	± 2.5	PASS

		VN	0	1.85	0.002212	± 2.5	PASS
		VN	10	2.81	0.003359	± 2.5	PASS
		VN	20	4.31	0.005152	± 2.5	PASS
		VN	30	-1.48	-0.001769	± 2.5	PASS
		VN	40	3.39	0.004053	± 2.5	PASS
		VN	50	3.86	0.004614	± 2.5	PASS
	HCH	VN	-30	-0.52	-0.000613	± 2.5	PASS
		VN	-20	4.65	0.005482	± 2.5	PASS
		VN	-10	-0.99	-0.001167	± 2.5	PASS
		VN	0	1.51	0.001780	± 2.5	PASS
		VN	10	-1.4	-0.001650	± 2.5	PASS
		VN	20	3.45	0.004067	± 2.5	PASS
		VN	30	2.99	0.003525	± 2.5	PASS
		VN	40	-0.77	-0.000908	± 2.5	PASS
		VN	50	-1.31	-0.001544	± 2.5	PASS
16QAM	LCH	VN	-30	2	0.002425	± 2.5	PASS
		VN	-20	-0.89	-0.001079	± 2.5	PASS
		VN	-10	4.21	0.005105	± 2.5	PASS
		VN	0	-0.25	-0.000303	± 2.5	PASS
		VN	10	1.54	0.001867	± 2.5	PASS
		VN	20	4.97	0.006026	± 2.5	PASS
		VN	30	-0.1	-0.000121	± 2.5	PASS
		VN	40	-0.63	-0.000764	± 2.5	PASS
		VN	50	-1.93	-0.002340	± 2.5	PASS
	MCH	VN	-30	-1.83	-0.002157	± 2.5	PASS
		VN	-20	3.15	0.003713	± 2.5	PASS
		VN	-10	3.15	0.003713	± 2.5	PASS
		VN	0	2.22	0.002617	± 2.5	PASS
		VN	10	-1.02	-0.001202	± 2.5	PASS
		VN	20	-0.6	-0.000707	± 2.5	PASS
		VN	30	4.42	0.005210	± 2.5	PASS
		VN	40	-0.31	-0.000365	± 2.5	PASS
		VN	50	1.64	0.001933	± 2.5	PASS
	HCH	VN	-30	-1.88	-0.002216	± 2.5	PASS
		VN	-20	2.68	0.003159	± 2.5	PASS
		VN	-10	-0.84	-0.000990	± 2.5	PASS
		VN	0	0.83	0.000978	± 2.5	PASS
		VN	10	1.41	0.001662	± 2.5	PASS
		VN	20	-0.91	-0.001073	± 2.5	PASS
		VN	30	-0.5	-0.000589	± 2.5	PASS
		VN	40	-0.82	-0.000967	± 2.5	PASS

		VN	50	-0.02	-0.000024	± 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	-1.09	-0.001322	± 2.5	PASS
		VN	TN	4.67	0.005663	± 2.5	PASS
		VH	TN	4.62	0.005602	± 2.5	PASS
	MCH	VL	TN	3.95	0.004722	± 2.5	PASS
		VN	TN	4.02	0.004806	± 2.5	PASS
		VH	TN	1.05	0.001255	± 2.5	PASS
	HCH	VL	TN	-0.56	-0.000660	± 2.5	PASS
		VN	TN	2.18	0.002570	± 2.5	PASS
		VH	TN	4.94	0.005823	± 2.5	PASS
16QAM	LCH	VL	TN	4.38	0.005311	± 2.5	PASS
		VN	TN	3.21	0.003892	± 2.5	PASS
		VH	TN	-1.87	-0.002267	± 2.5	PASS
	MCH	VL	TN	4.68	0.005595	± 2.5	PASS
		VN	TN	3.26	0.003897	± 2.5	PASS
		VH	TN	3.98	0.004758	± 2.5	PASS
	HCH	VL	TN	1.06	0.001250	± 2.5	PASS
		VN	TN	2.79	0.003289	± 2.5	PASS
		VH	TN	0.1	0.000118	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.09	0.003747	± 2.5	PASS
		VN	-20	2.34	0.002837	± 2.5	PASS
		VN	-10	3.71	0.004499	± 2.5	PASS
		VN	0	-1.03	-0.001249	± 2.5	PASS
		VN	10	1.3	0.001576	± 2.5	PASS
		VN	20	-1.28	-0.001552	± 2.5	PASS
		VN	30	-1.94	-0.002352	± 2.5	PASS
		VN	40	1.29	0.001564	± 2.5	PASS
		VN	50	-1.48	-0.001795	± 2.5	PASS
	MCH	VN	-30	4.65	0.005559	± 2.5	PASS
		VN	-20	-1.49	-0.001781	± 2.5	PASS
		VN	-10	4.09	0.004889	± 2.5	PASS
		VN	0	1.62	0.001937	± 2.5	PASS

		VN	10	0.66	0.000789	± 2.5	PASS
		VN	20	2.75	0.003288	± 2.5	PASS
		VN	30	-1.24	-0.001482	± 2.5	PASS
		VN	40	-1.54	-0.001841	± 2.5	PASS
		VN	50	-1.15	-0.001375	± 2.5	PASS
	HCH	VN	-30	-1.86	-0.002193	± 2.5	PASS
		VN	-20	-0.28	-0.000330	± 2.5	PASS
		VN	-10	3.24	0.003819	± 2.5	PASS
		VN	0	4.12	0.004857	± 2.5	PASS
		VN	10	-1.74	-0.002051	± 2.5	PASS
		VN	20	-1.92	-0.002263	± 2.5	PASS
		VN	30	1.46	0.001721	± 2.5	PASS
		VN	40	-1.96	-0.002311	± 2.5	PASS
		VN	50	3.37	0.003973	± 2.5	PASS
		VN	-30	-0.02	-0.000024	± 2.5	PASS
		VN	-20	3.53	0.004280	± 2.5	PASS
		VN	-10	-0.46	-0.000558	± 2.5	PASS
		VN	0	1.89	0.002292	± 2.5	PASS
		VN	10	-0.45	-0.000546	± 2.5	PASS
		VN	20	2.76	0.003347	± 2.5	PASS
16QAM	LCH	VN	30	1.1	0.001334	± 2.5	PASS
		VN	40	1.08	0.001310	± 2.5	PASS
		VN	50	1.87	0.002267	± 2.5	PASS
	MCH	VN	-30	-0.66	-0.000778	± 2.5	PASS
		VN	-20	2.48	0.002923	± 2.5	PASS
		VN	-10	-1.87	-0.002204	± 2.5	PASS
		VN	0	2.62	0.003089	± 2.5	PASS
		VN	10	3.22	0.003796	± 2.5	PASS
		VN	20	4.94	0.005823	± 2.5	PASS
		VN	30	-1.48	-0.001745	± 2.5	PASS
		VN	40	0.7	0.000825	± 2.5	PASS
		VN	50	2.47	0.002912	± 2.5	PASS
	HCH	VN	-30	3.46	0.004079	± 2.5	PASS
		VN	-20	2.37	0.002794	± 2.5	PASS
		VN	-10	-1.04	-0.001226	± 2.5	PASS
		VN	0	3.98	0.004692	± 2.5	PASS
		VN	10	-1.94	-0.002287	± 2.5	PASS
		VN	20	2.02	0.002381	± 2.5	PASS
		VN	30	2.57	0.003030	± 2.5	PASS
		VN	40	1.79	0.002110	± 2.5	PASS
		VN	50	-0.93	-0.001096	± 2.5	PASS