



Band12_3MHz_16QAM_23025_1RB#0



Band12_3MHz_16QAM_23025_15RB#0



Band12_3MHz_16QAM_23165_1RB#0



Band12_3MHz_16QAM_23165_15RB#0



Band12_5MHz_QPSK_23035_1RB#0



Band12_5MHz_QPSK_23035_25RB#0



Band12_5MHz_QPSK_23155_1RB#0



Band12_5MHz_QPSK_23155_25RB#0



Band12_5MHz_16QAM_23035_1RB#0



Band12_5MHz_16QAM_23035_25RB#0



Band12_5MHz_16QAM_23155_1RB#0



Band12_5MHz_16QAM_23155_25RB#0



Band12_10MHz_QPSK_23060_1RB#0



Band12_10MHz_QPSK_23060_50RB#0



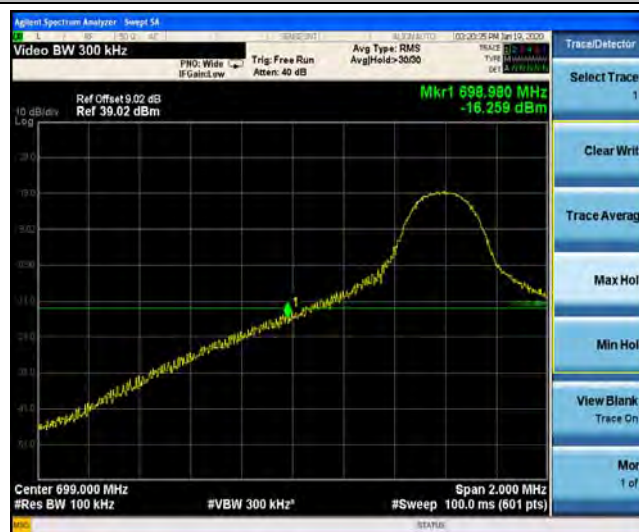
Band12_10MHz_QPSK_23130_1RB#0



Band12_10MHz_QPSK_23130_50RB#0



Band12_10MHz_16QAM_23060_1RB#0



Band12_10MHz_16QAM_23060_50RB#0



Band12_10MHz_16QAM_23130_1RB#0



Band12_10MHz_16QAM_23130_50RB#0

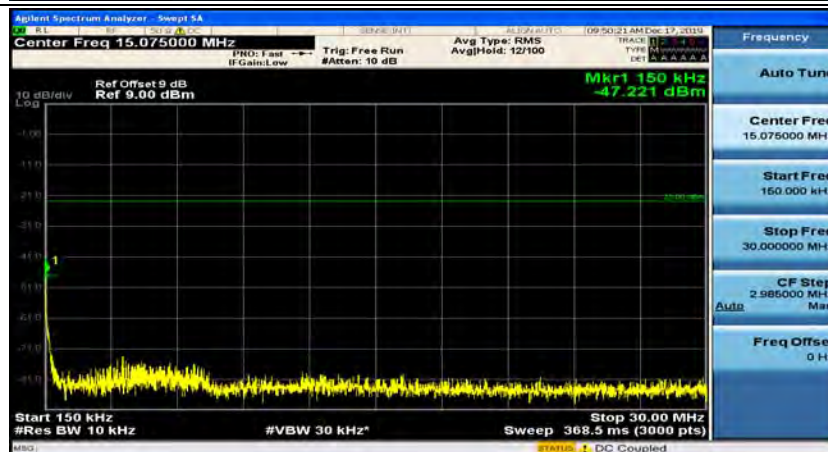


Appendix E: Conducted Spurious Emission

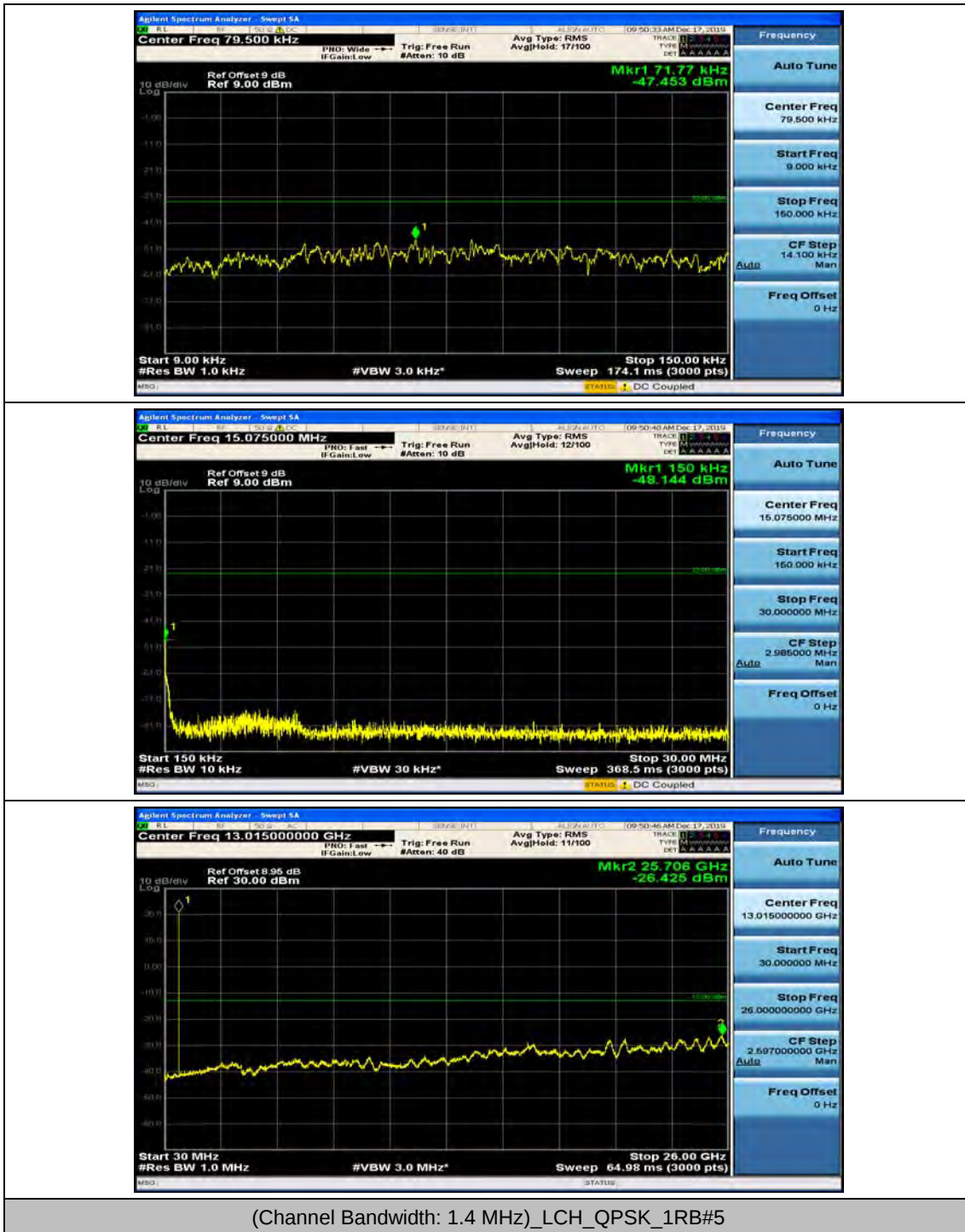
Test Graphs

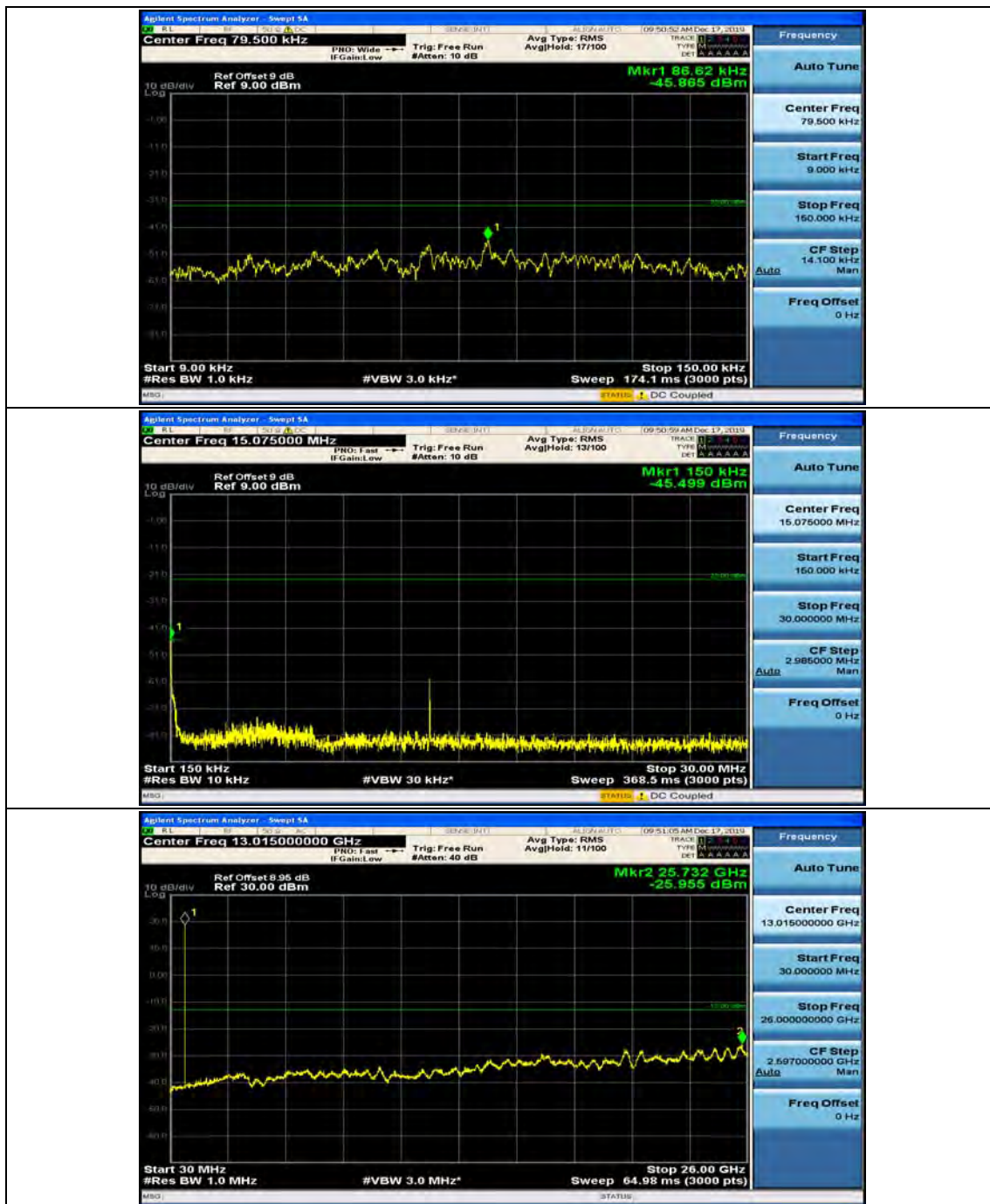
Channel Bandwidth: 1.4 MHz

(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#0

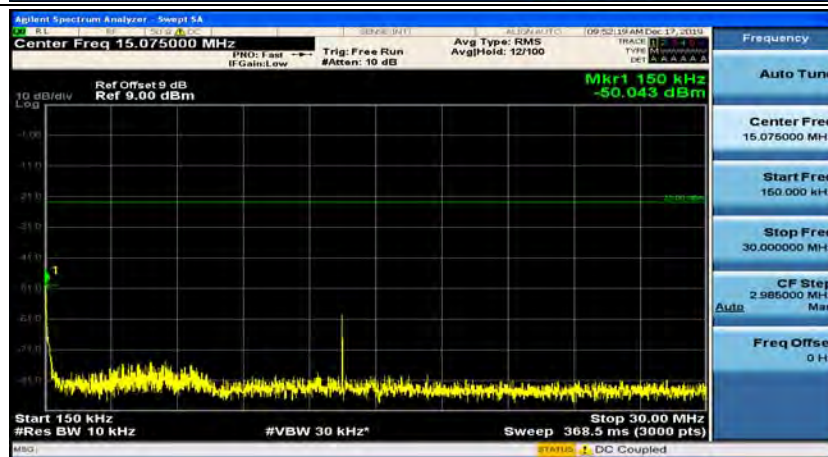


(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#3

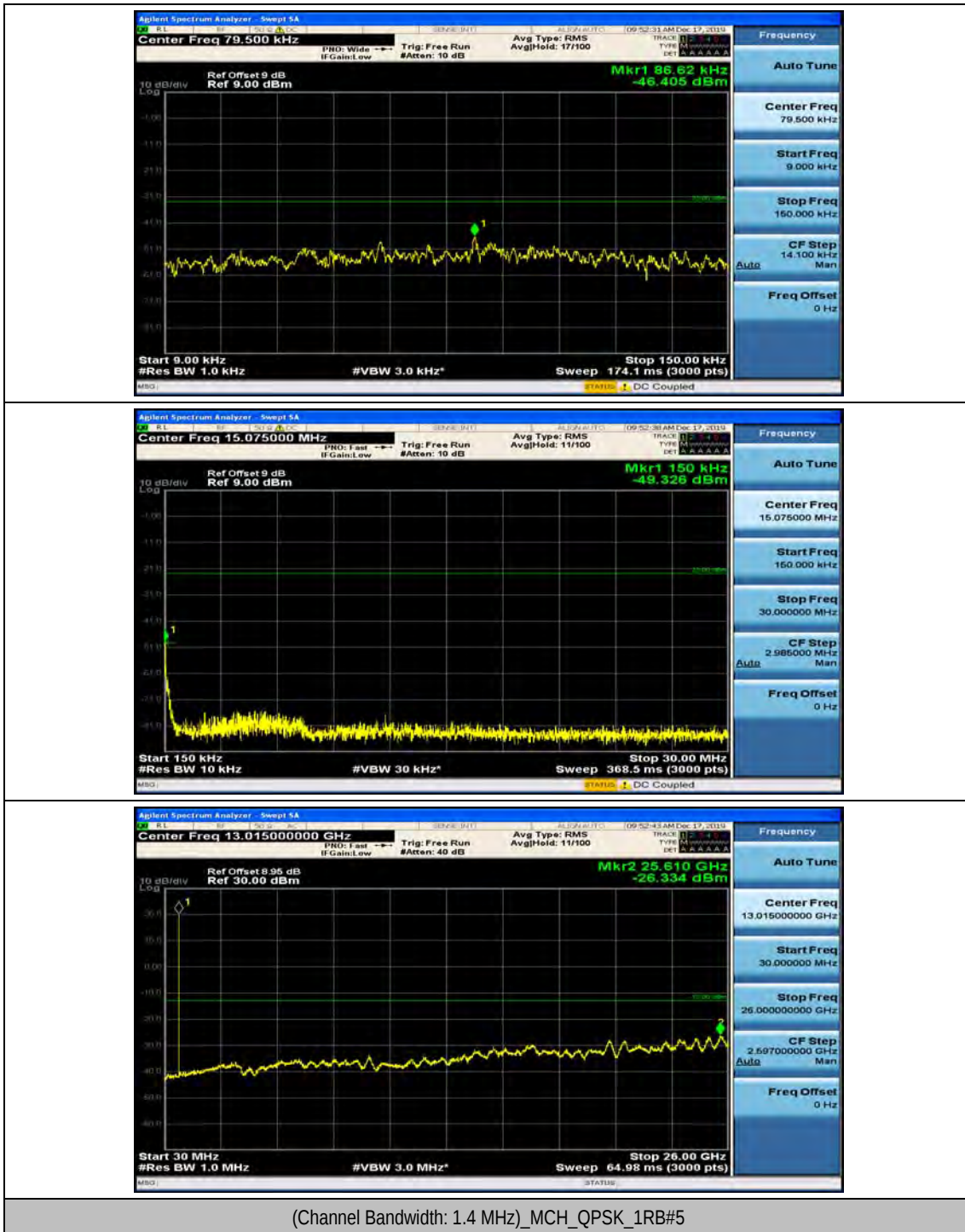


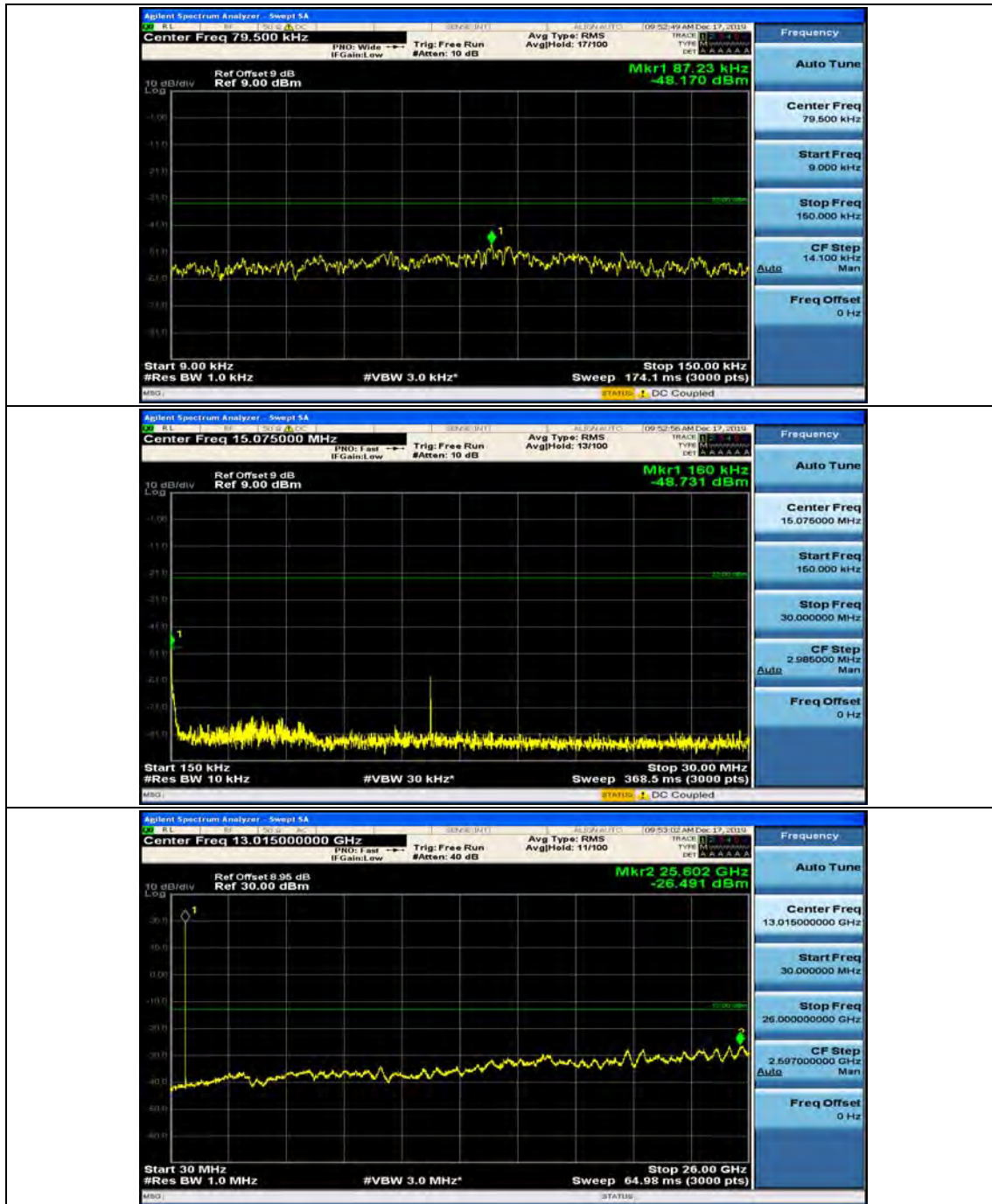


(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#0

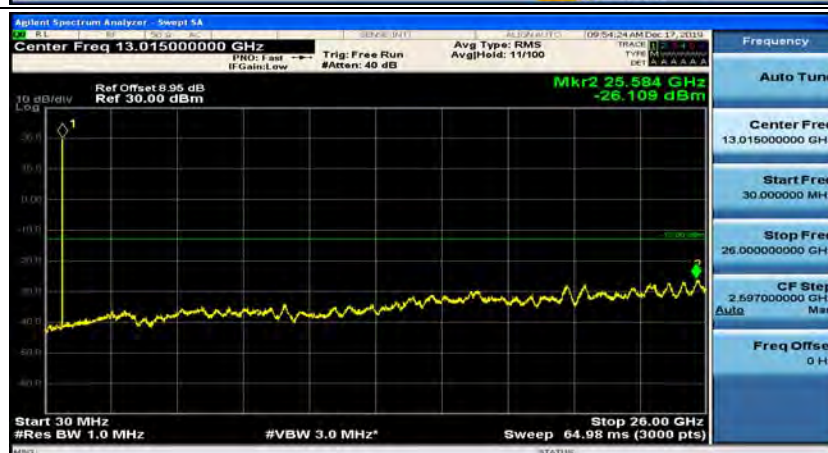
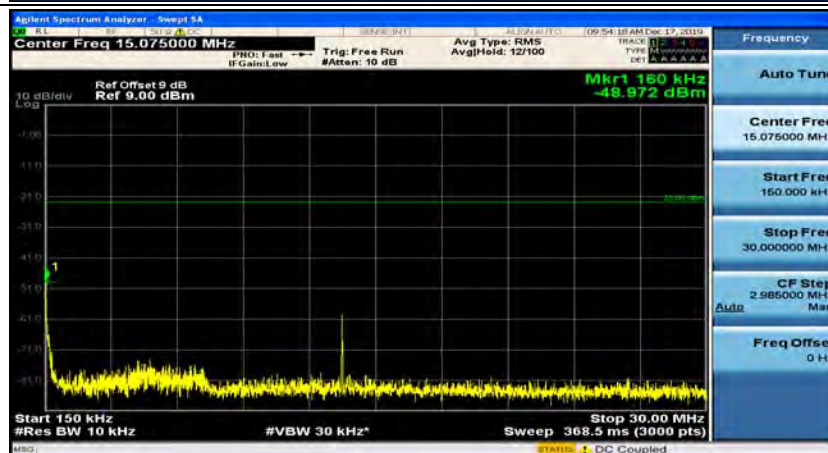


(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#3

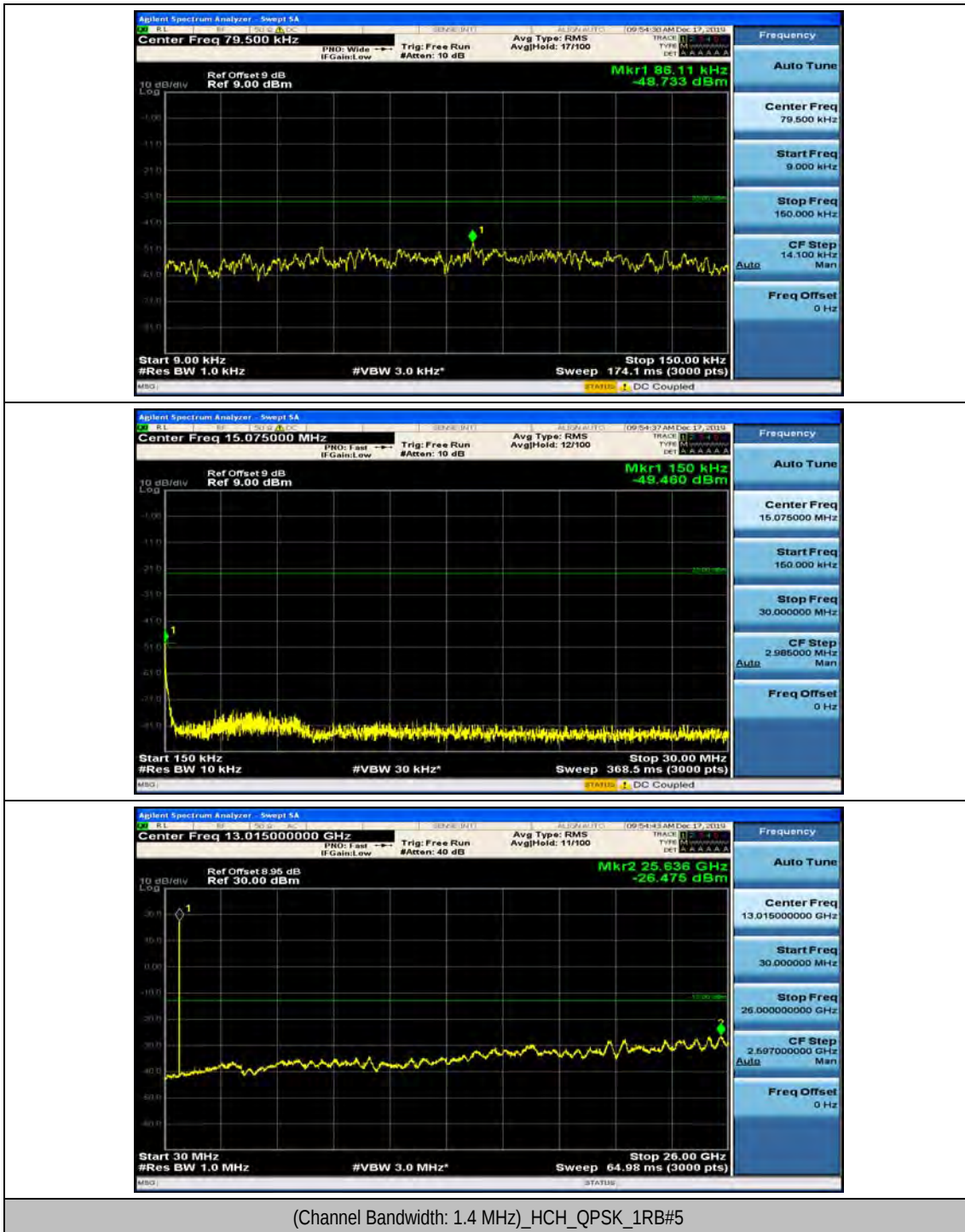


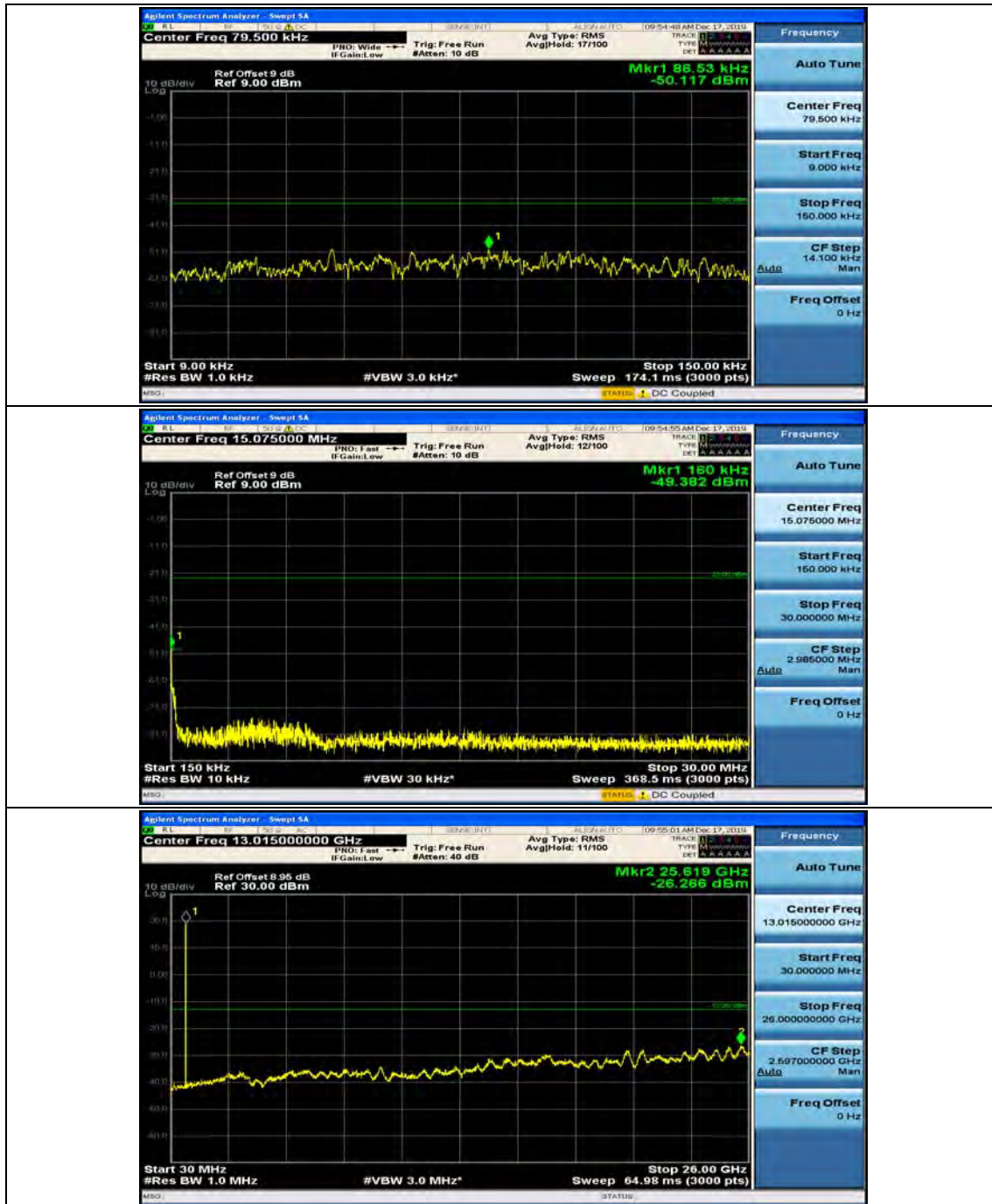


(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#0

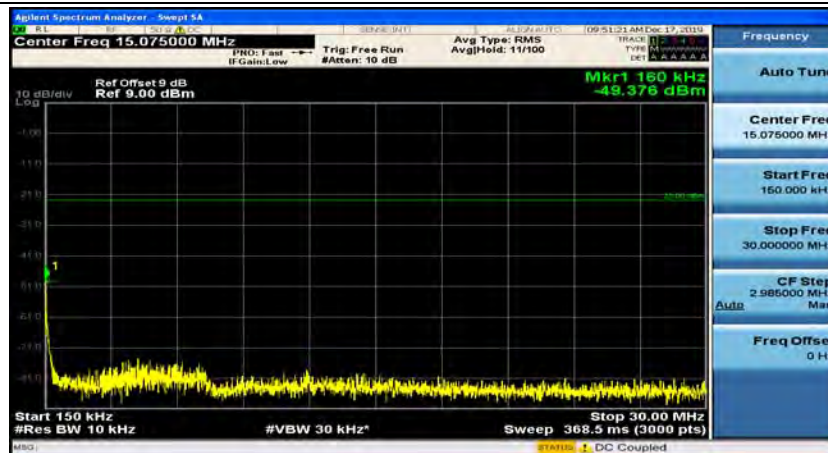


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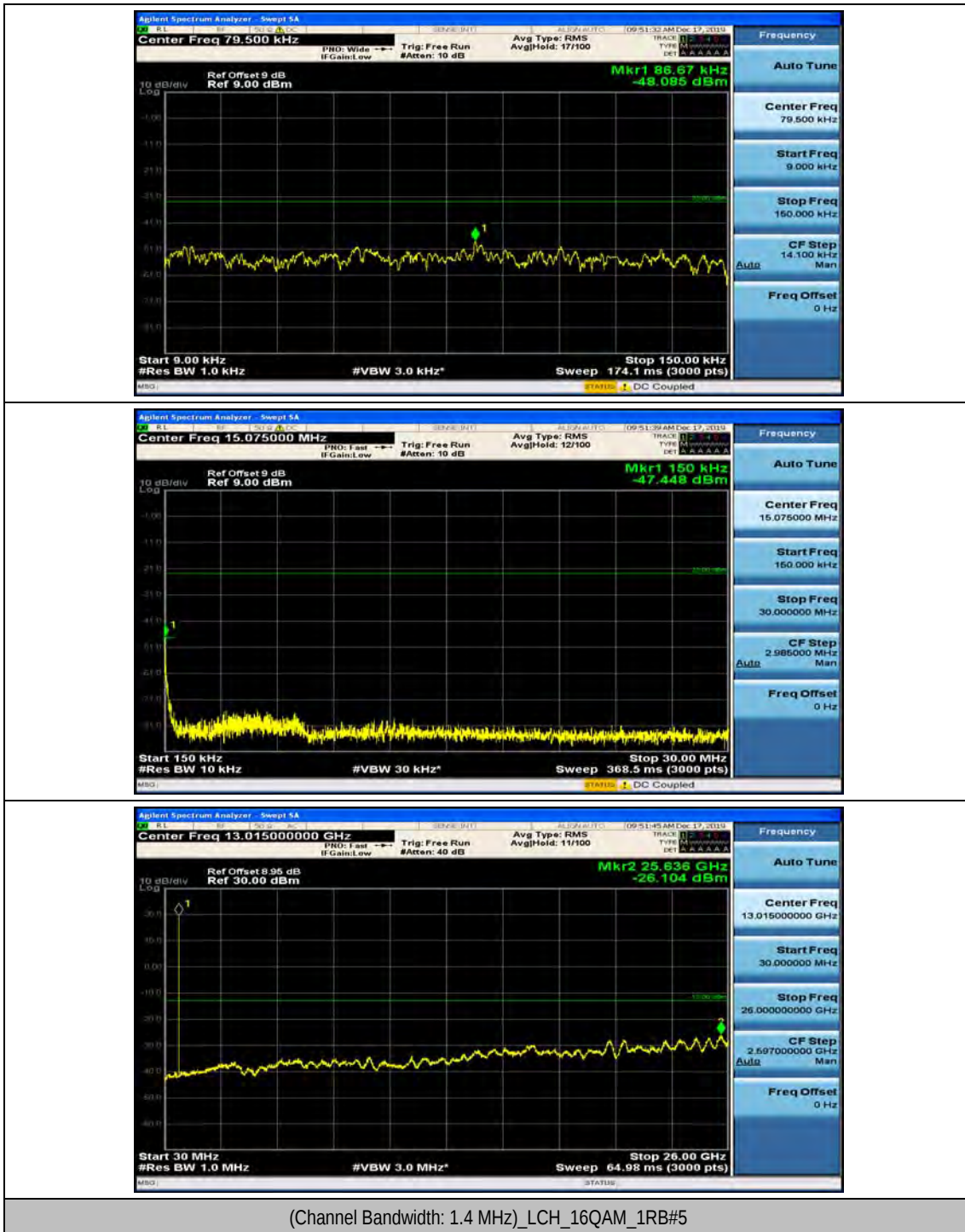


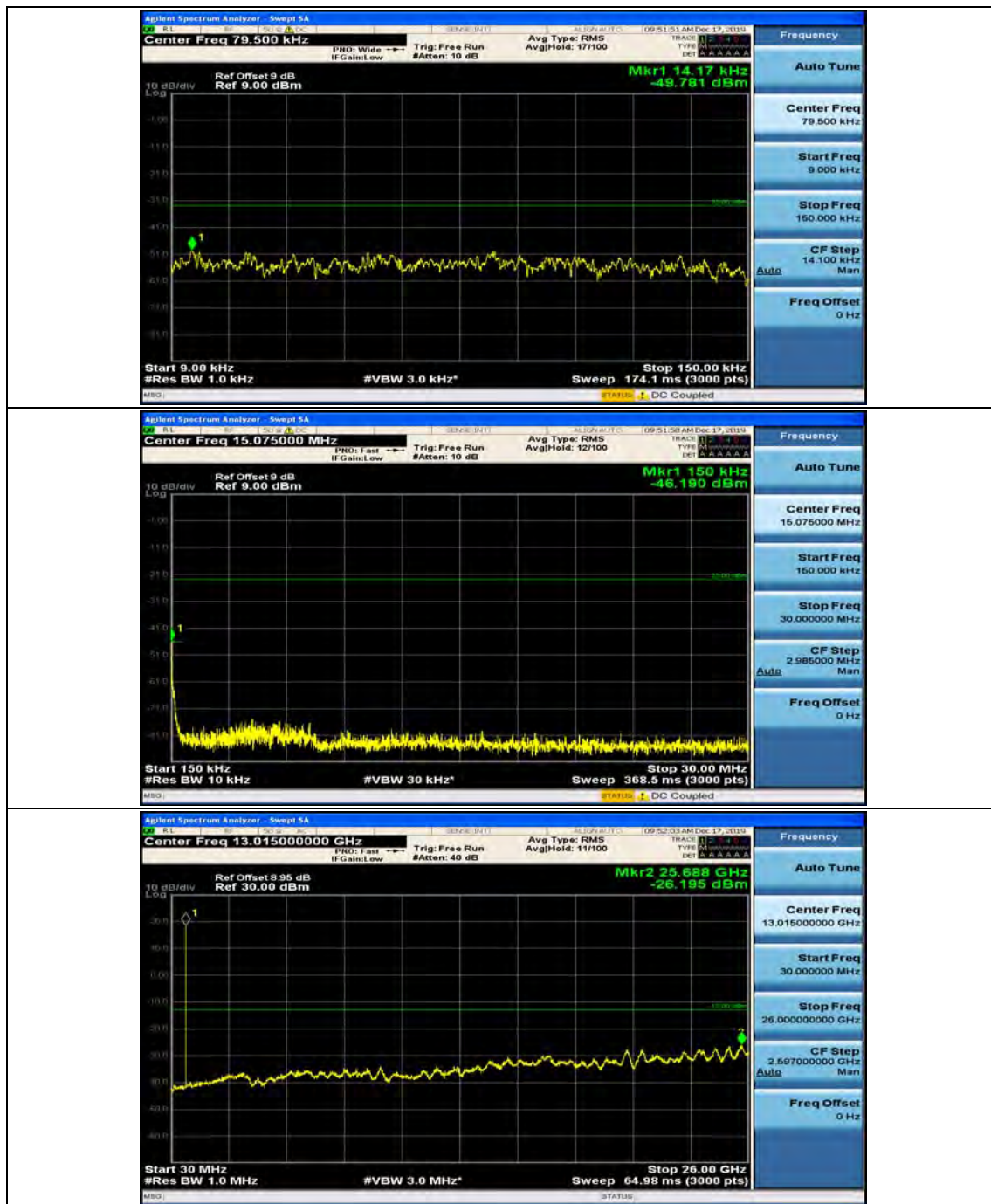


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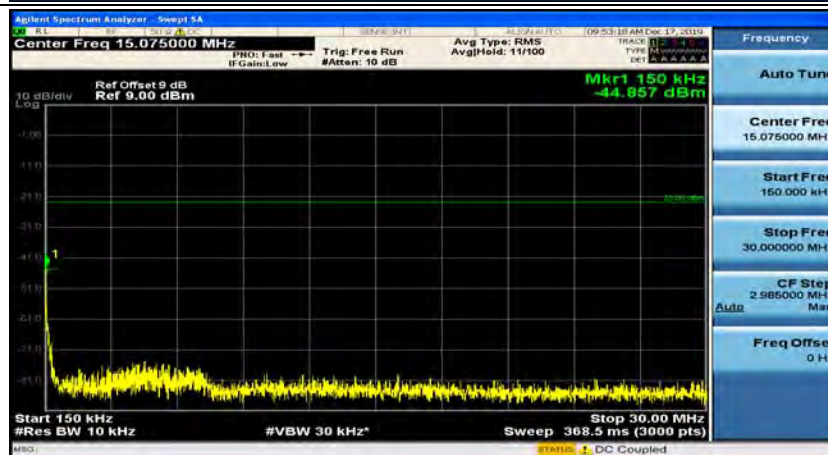


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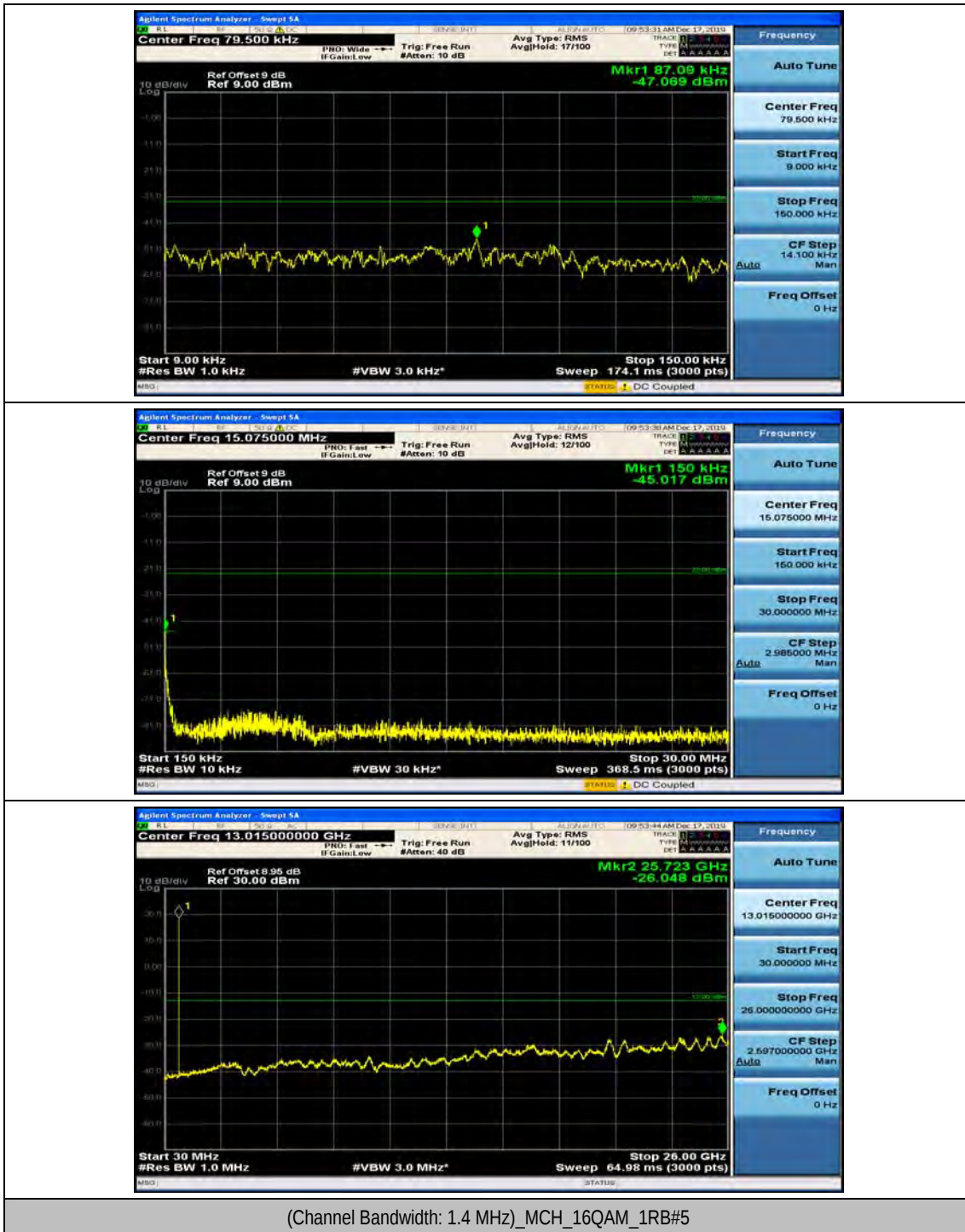


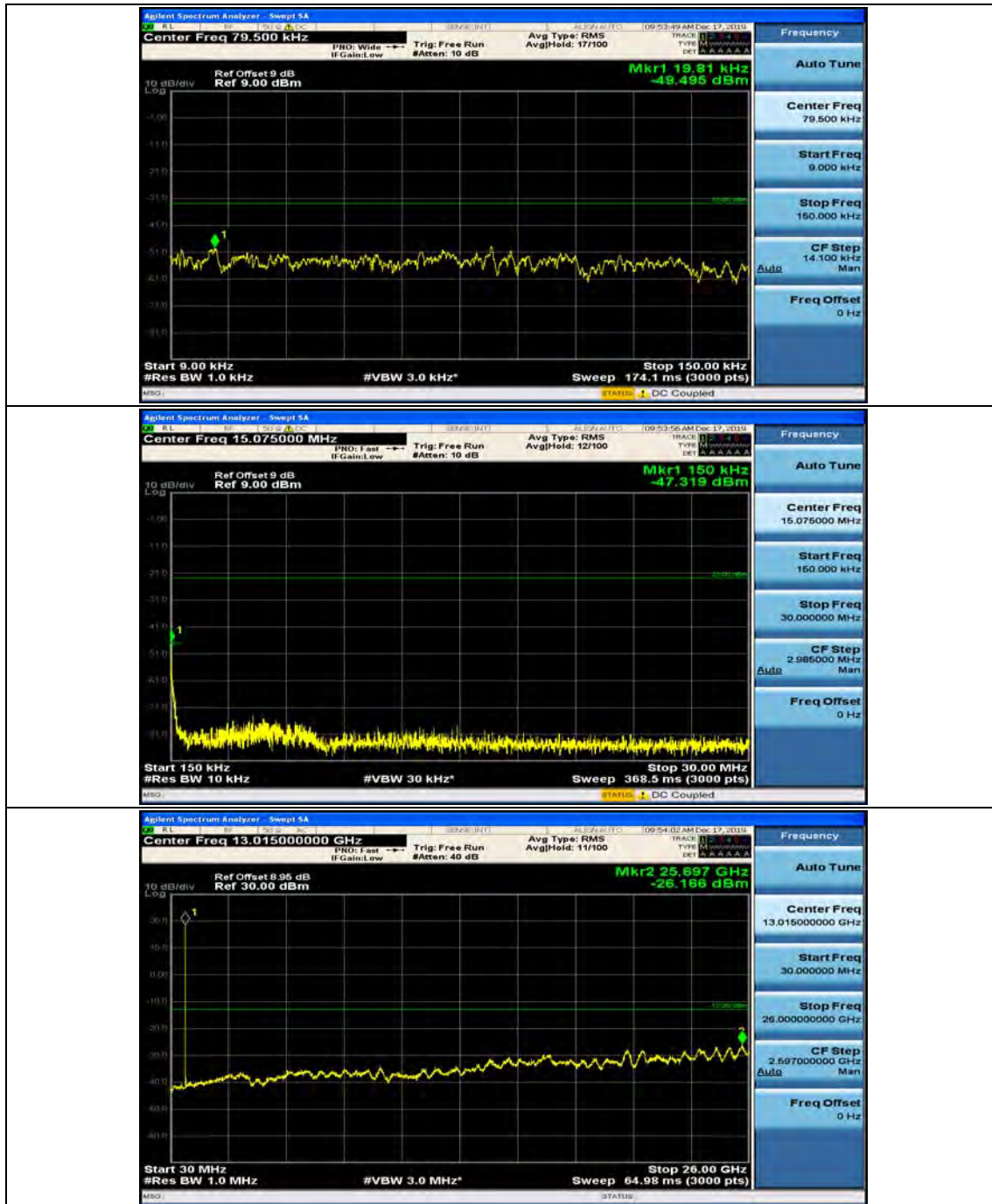


(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#0

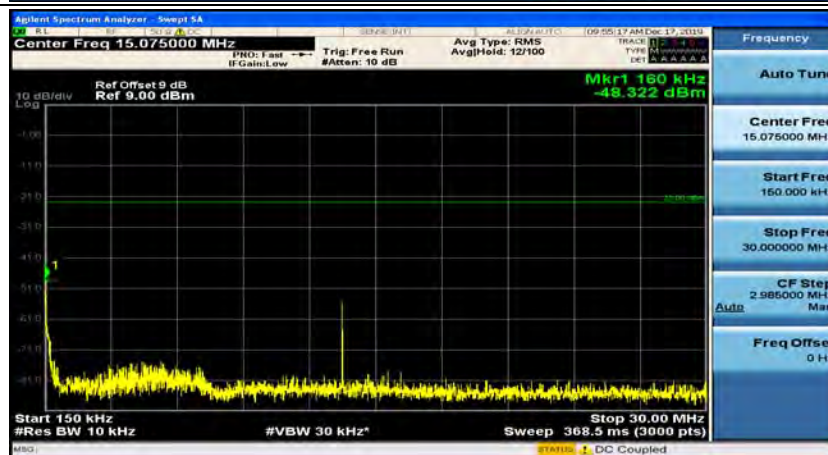


(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#3

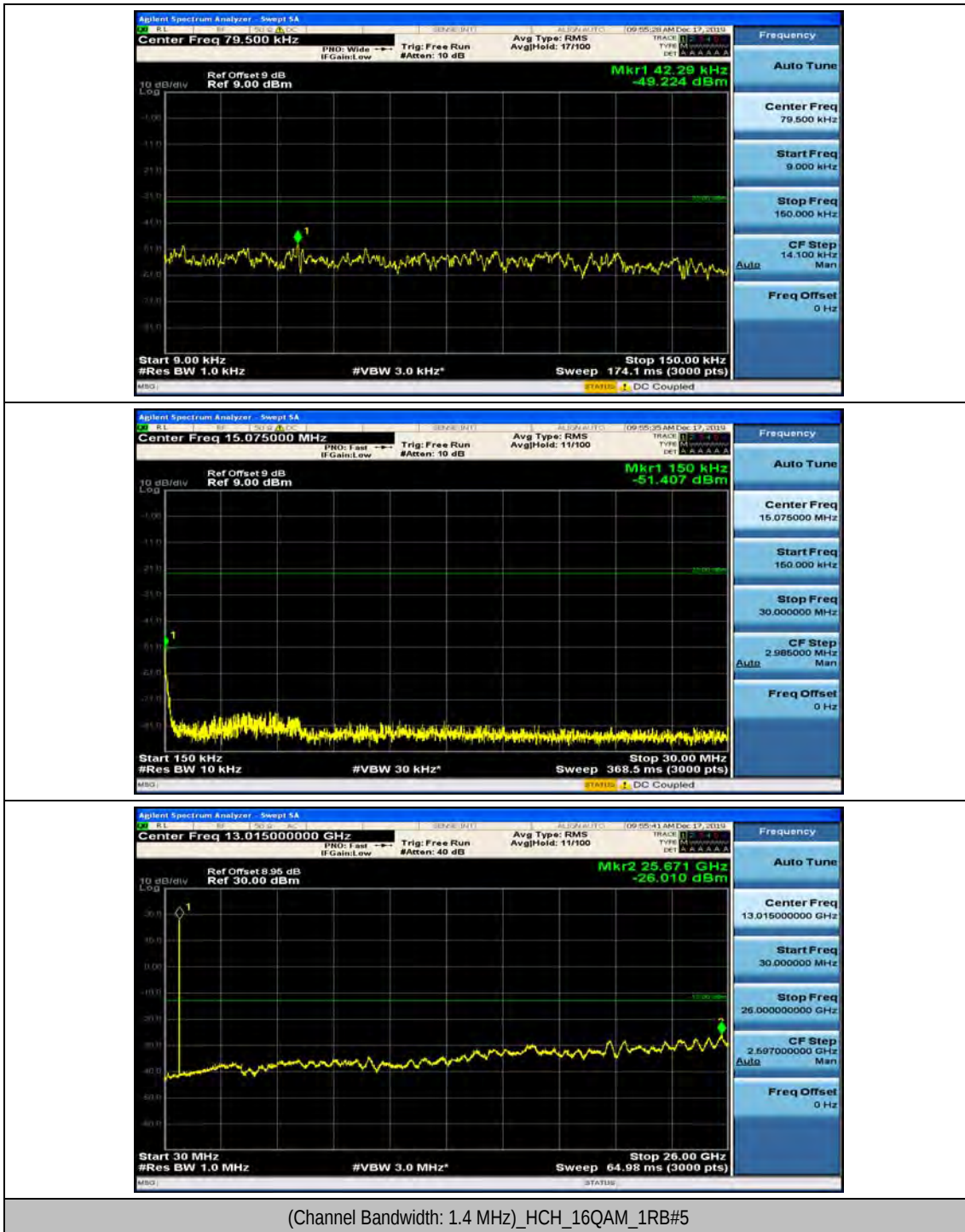


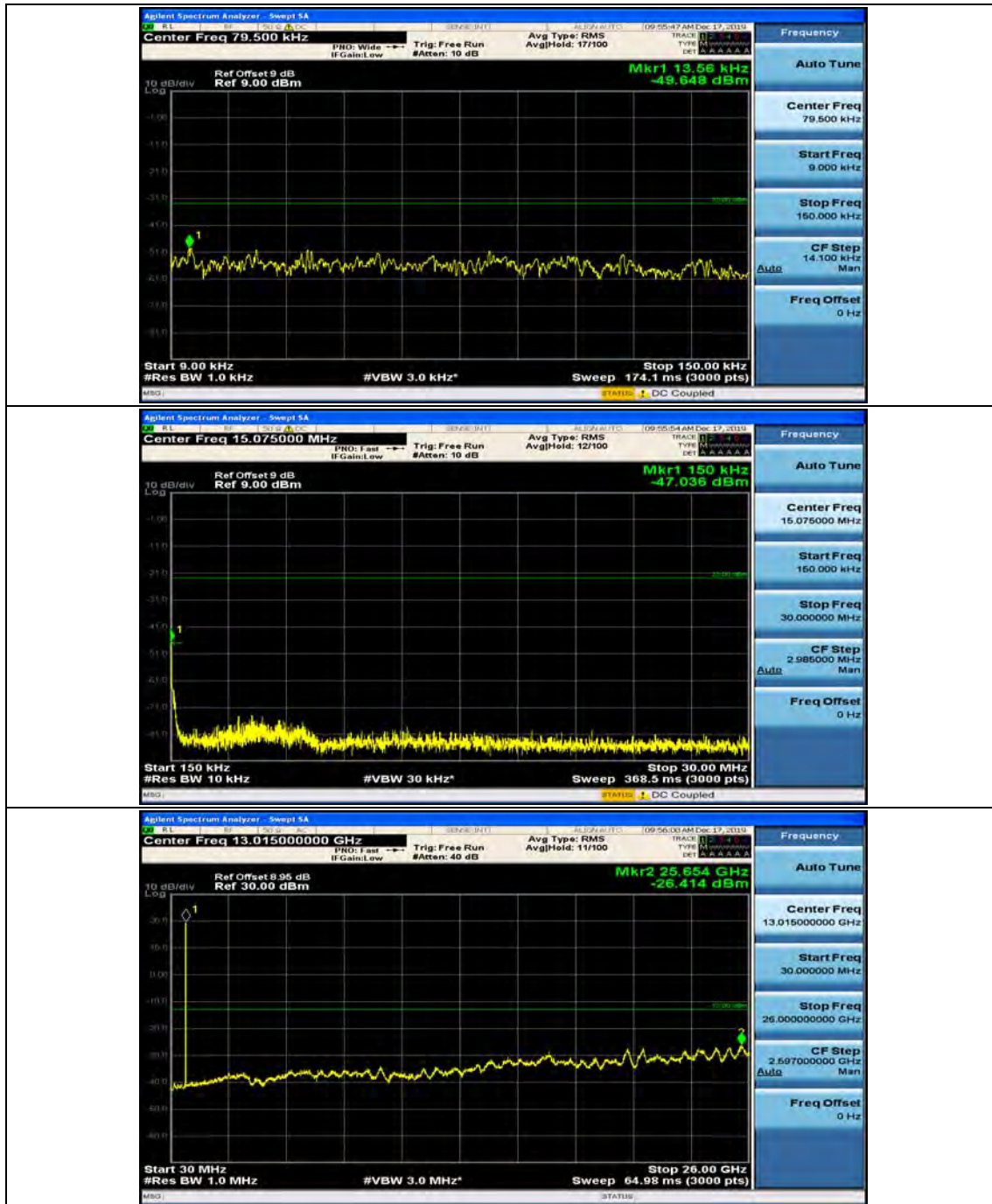


(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#0

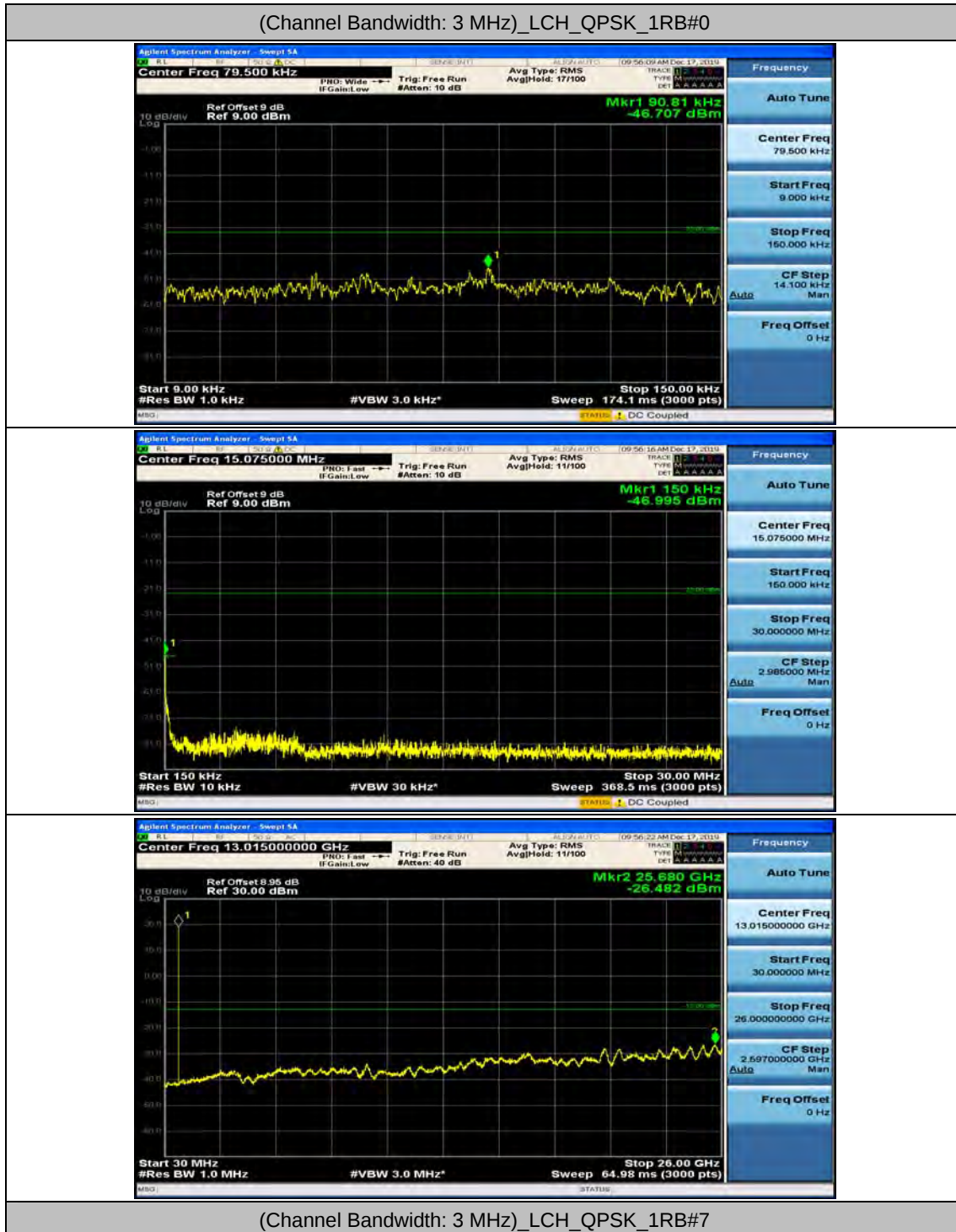


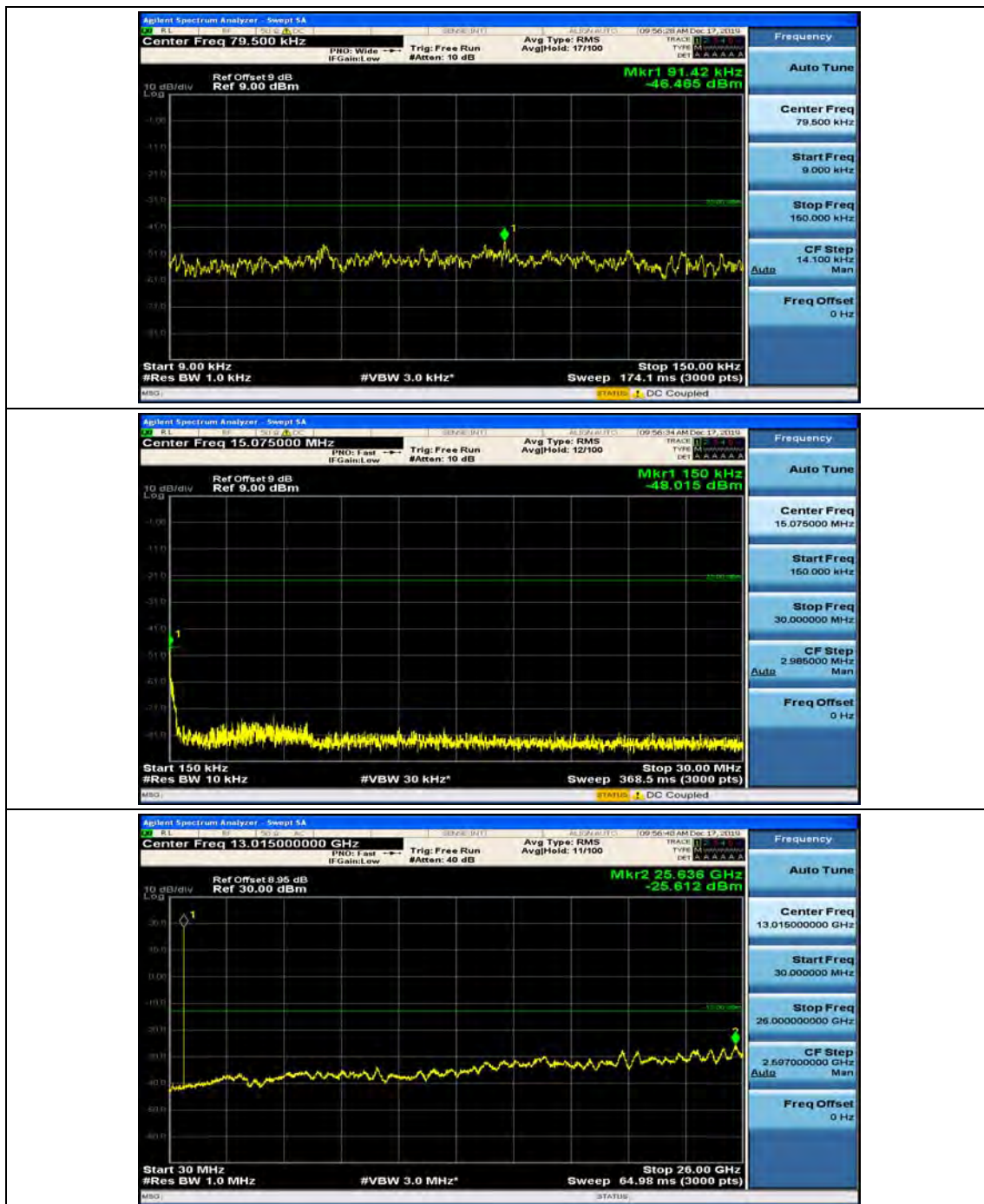
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#3



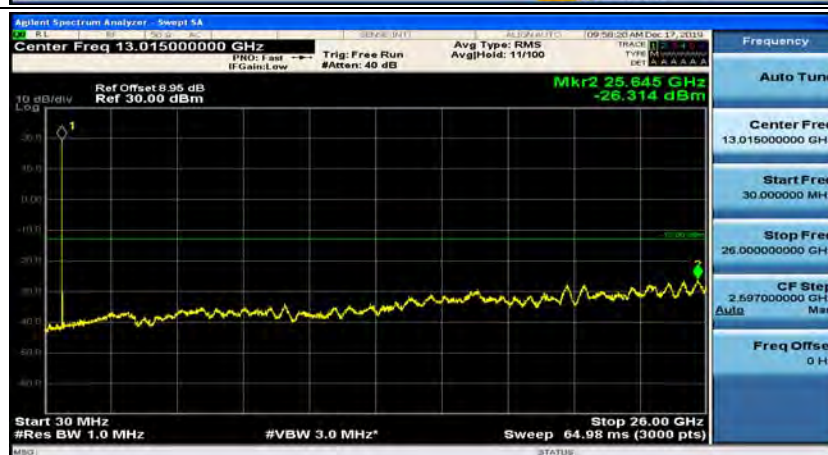
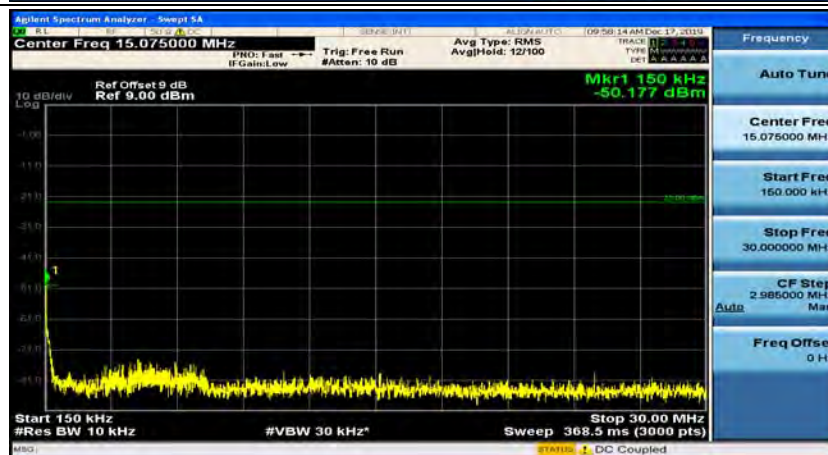
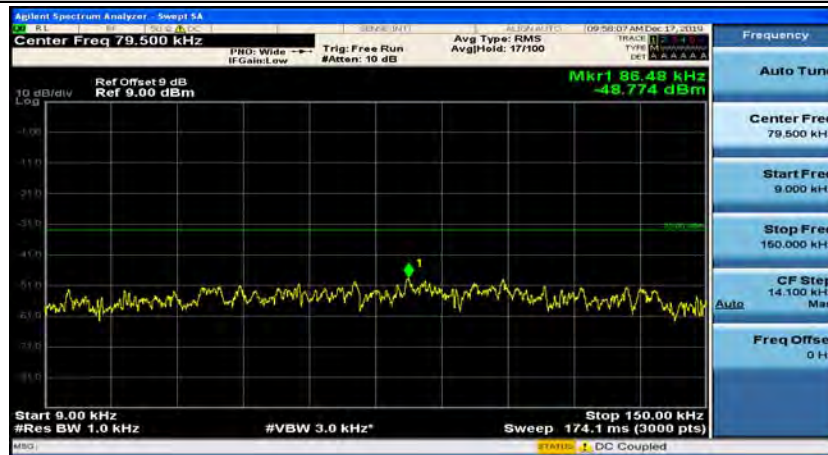


Channel Bandwidth: 3 MHz

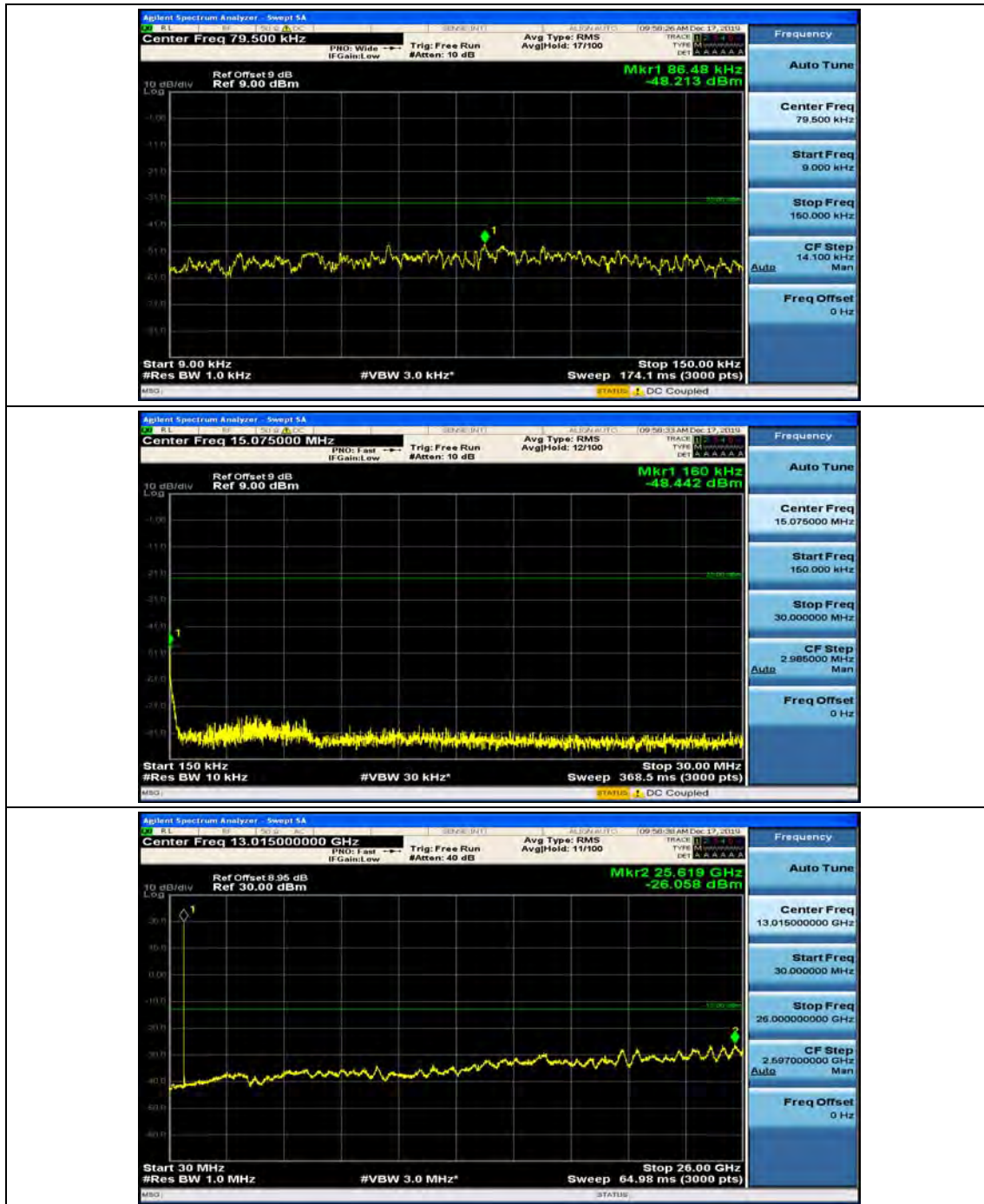




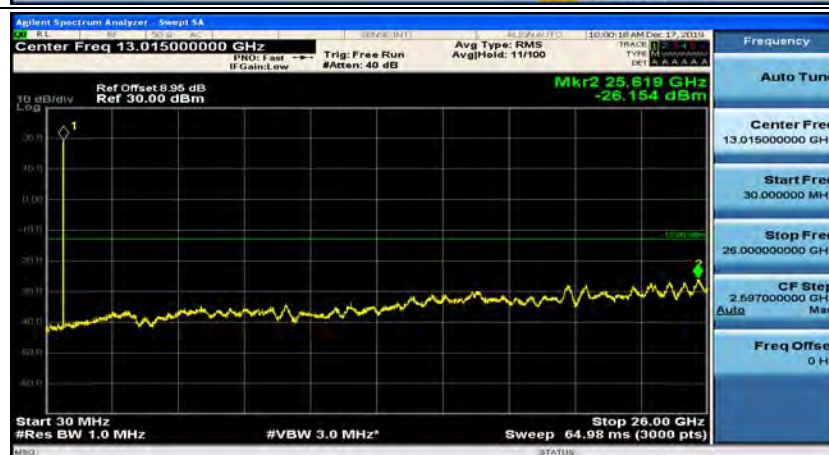
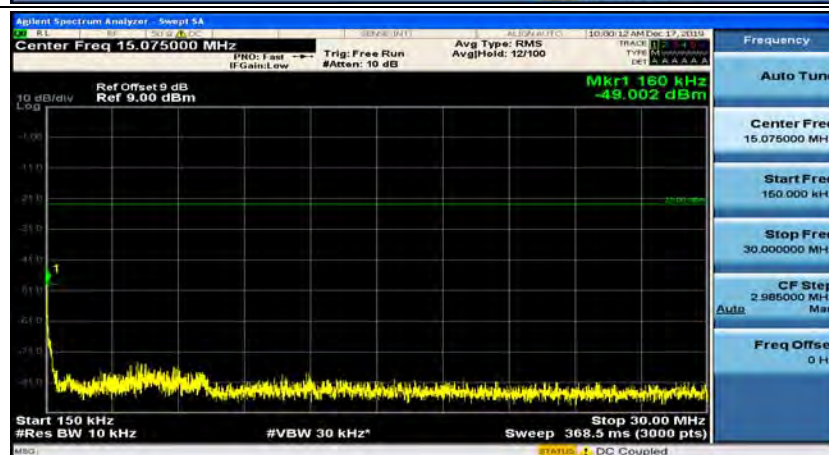
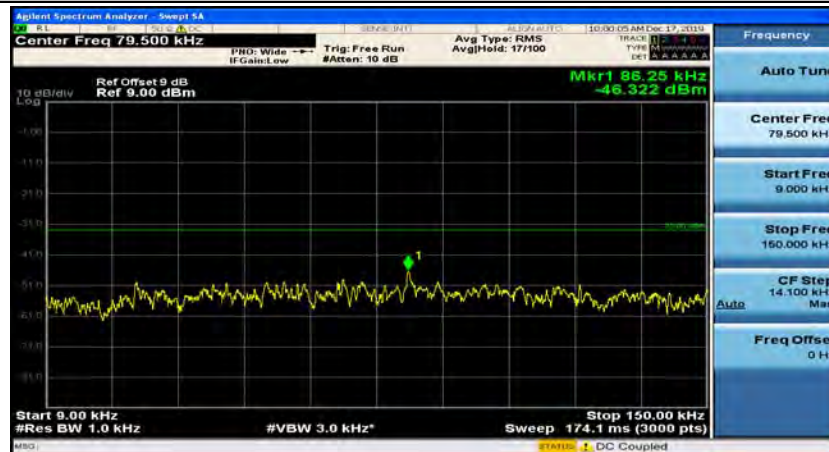
(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#0



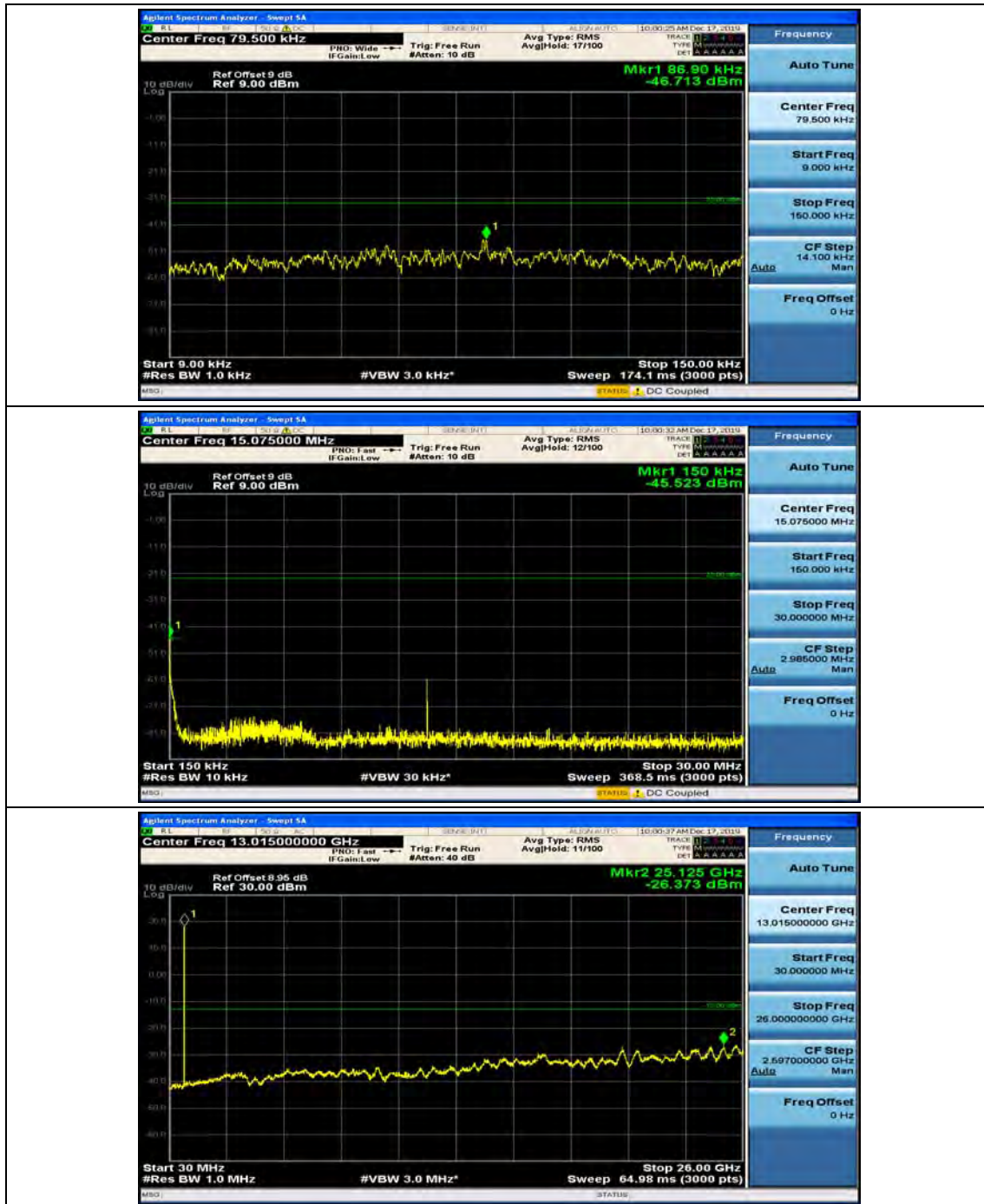
(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#7



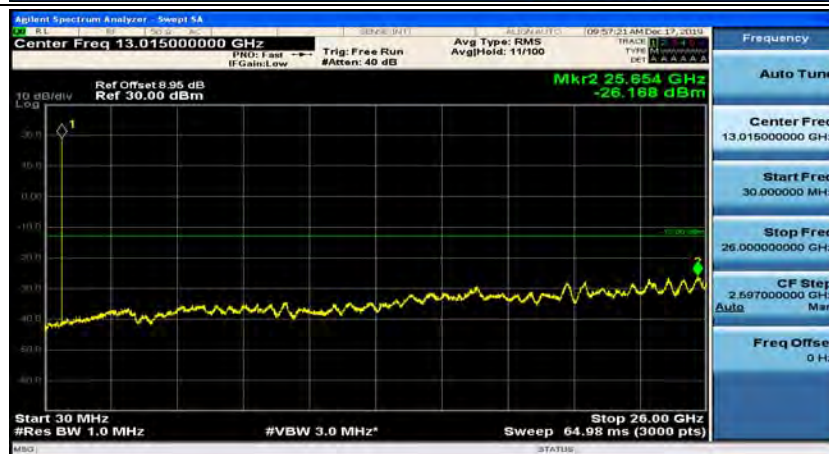
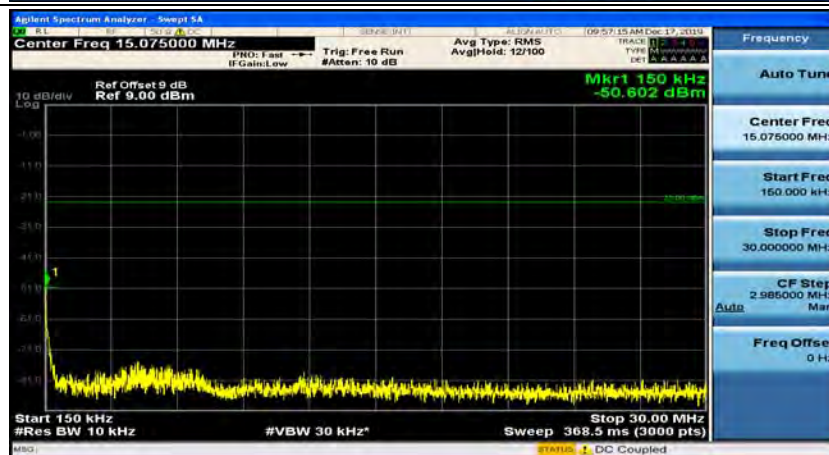
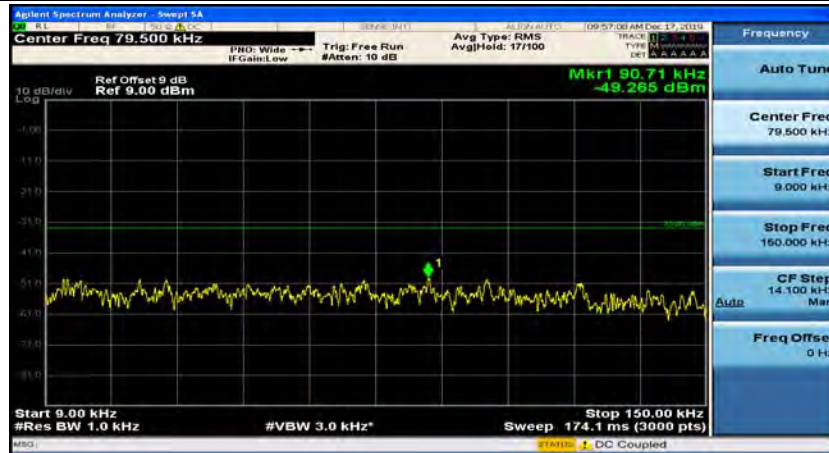
(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#0



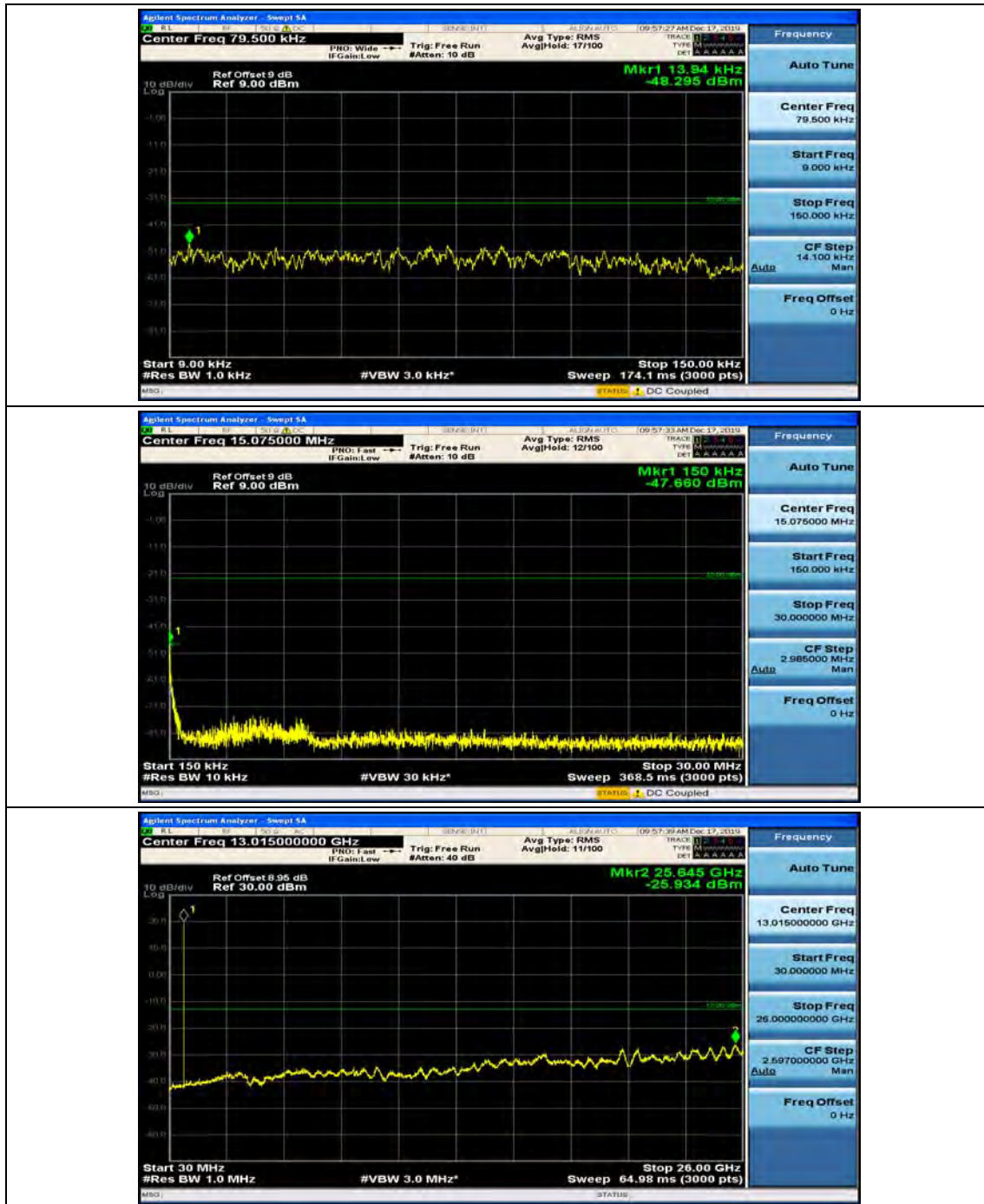
(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#7



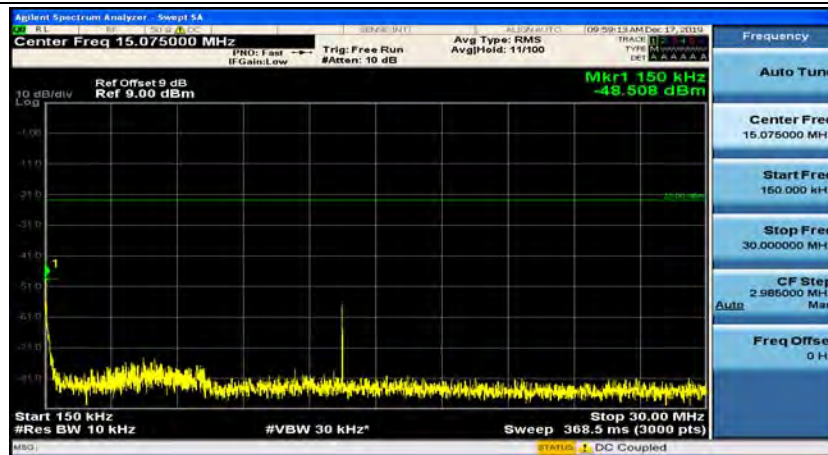
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#0



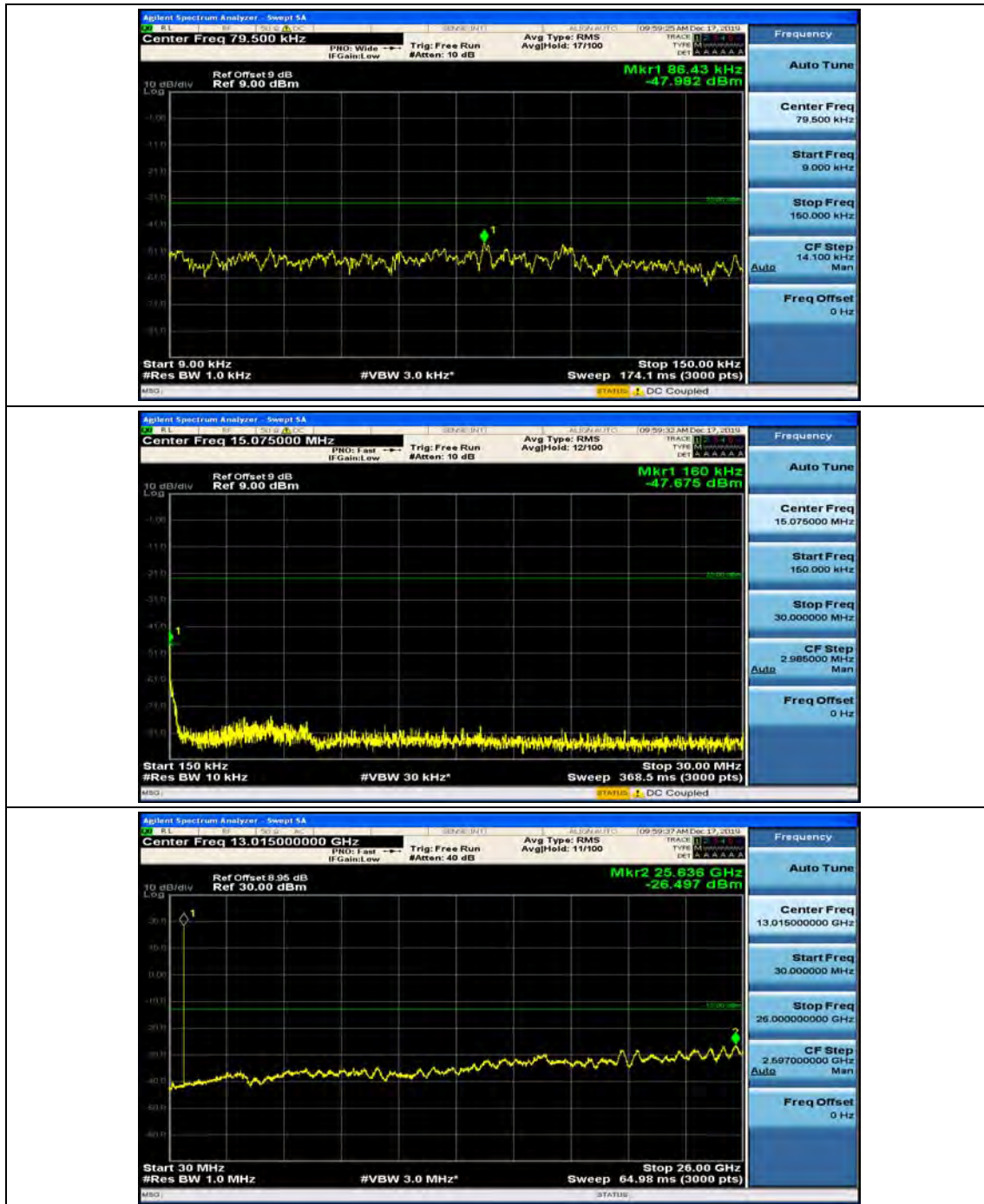
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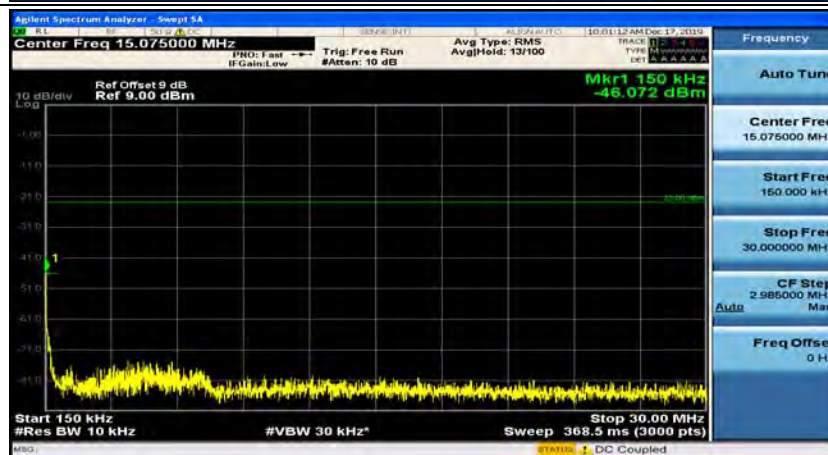
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#0



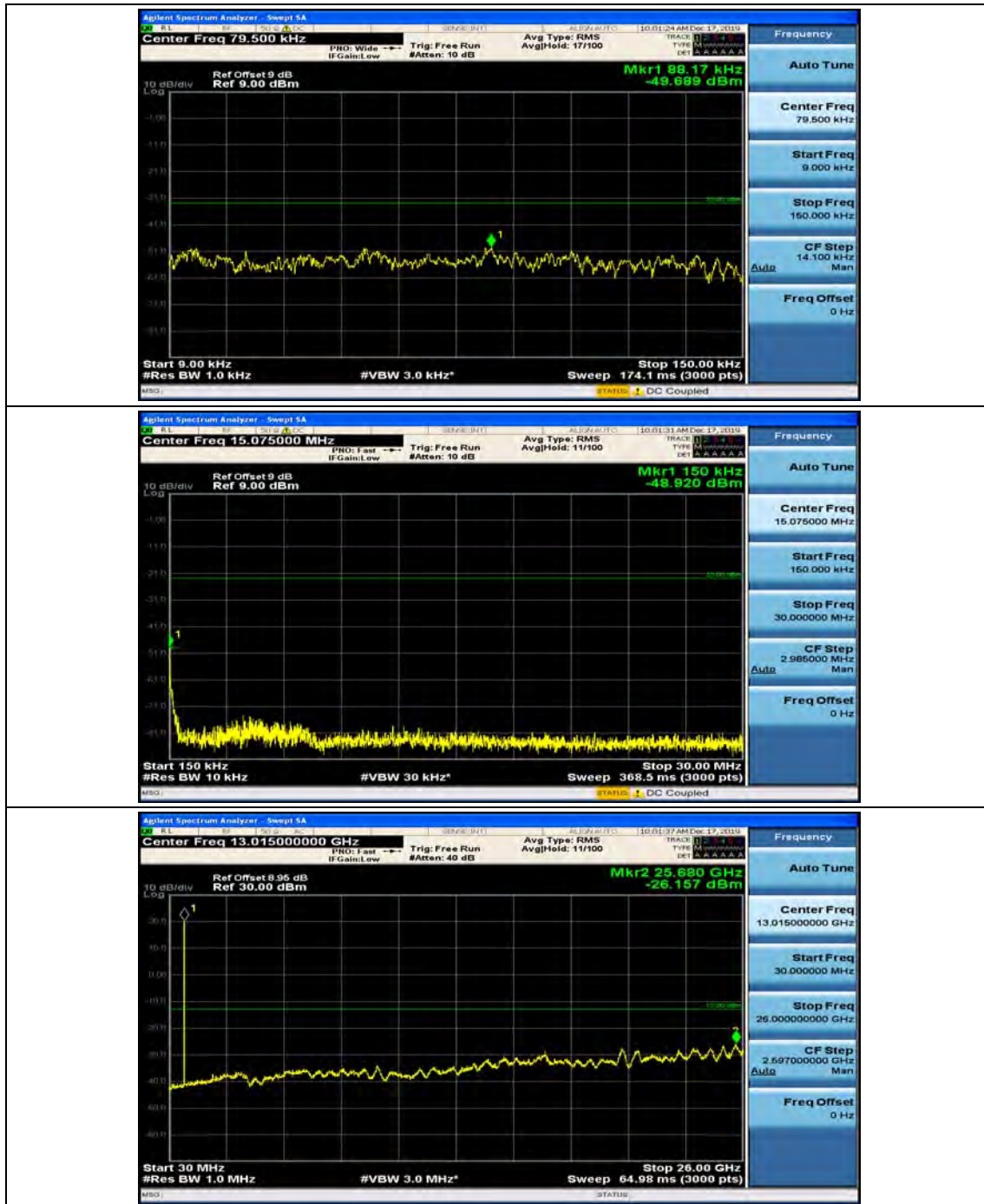
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#7



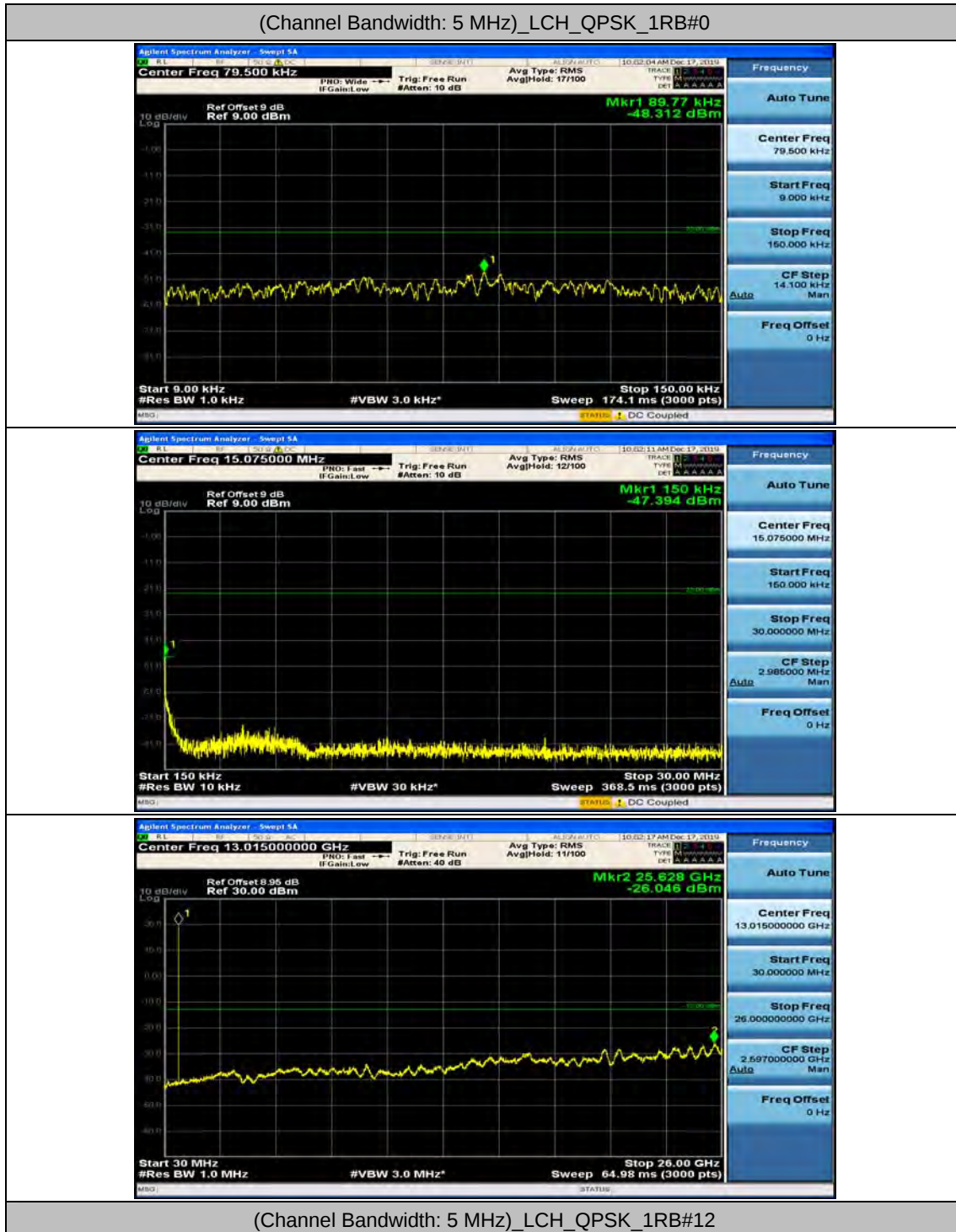
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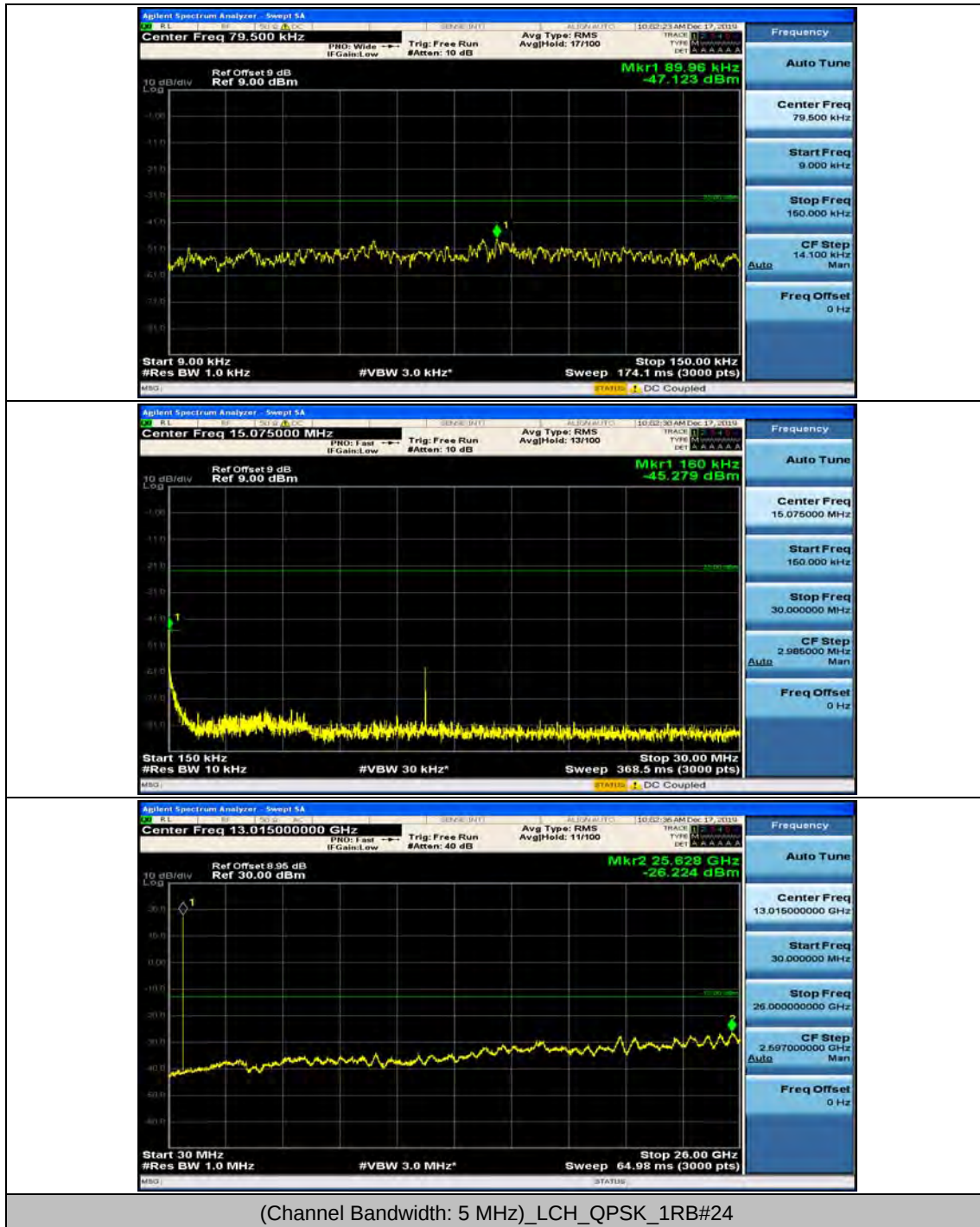


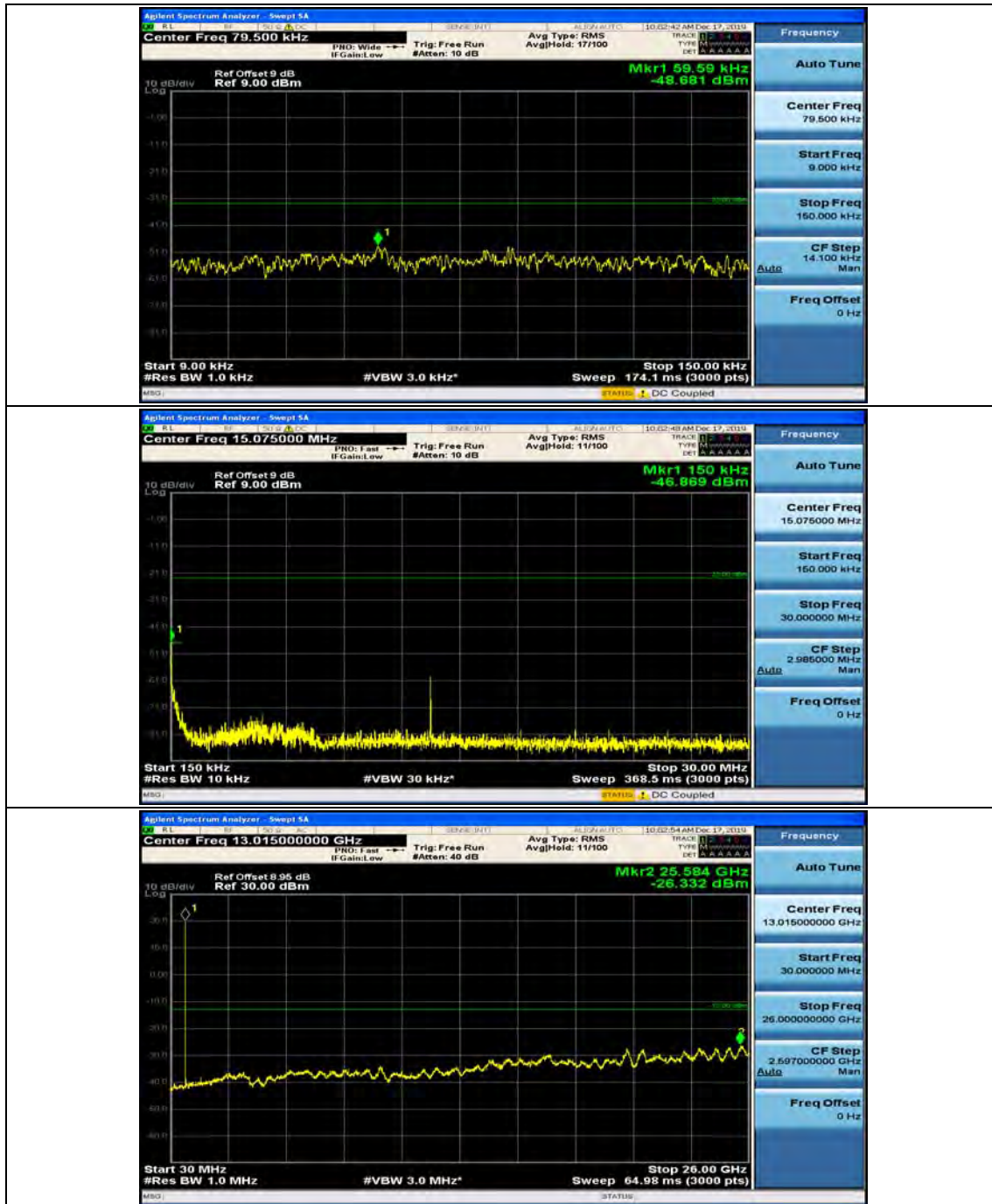
(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#7



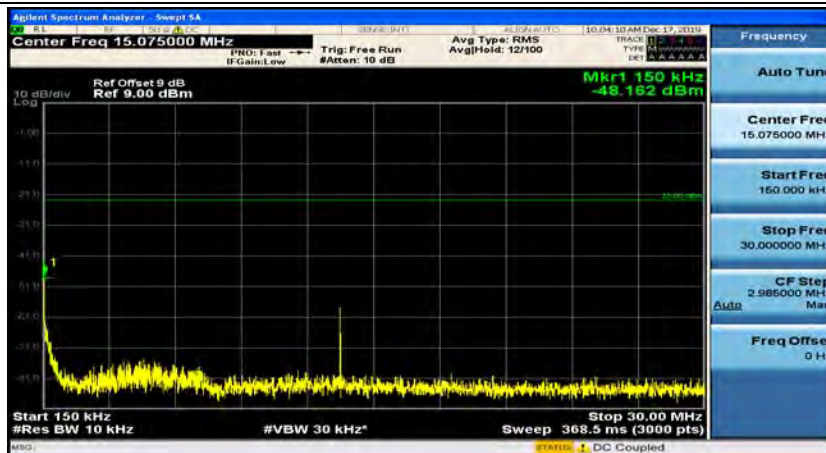
Channel Bandwidth: 5 MHz



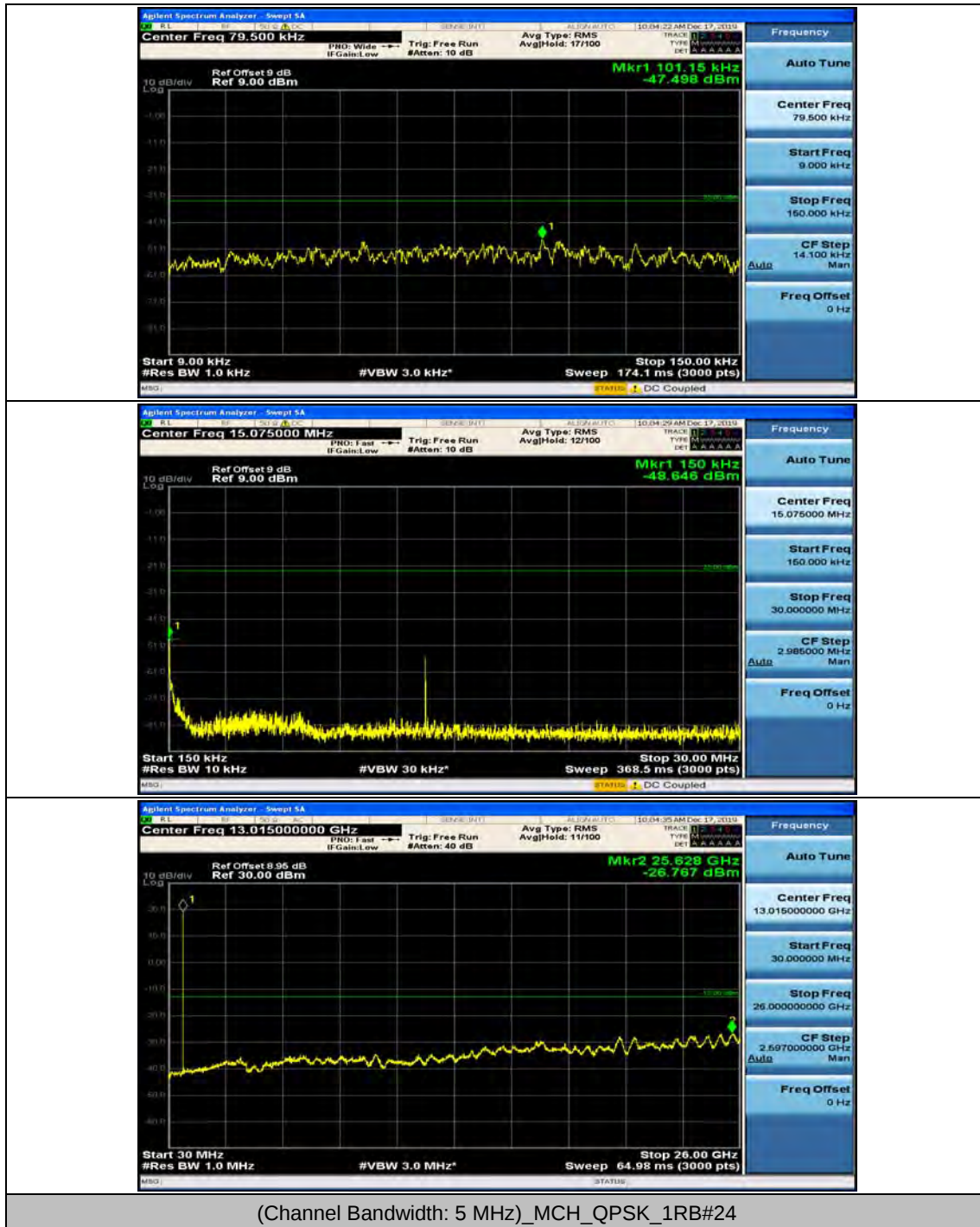


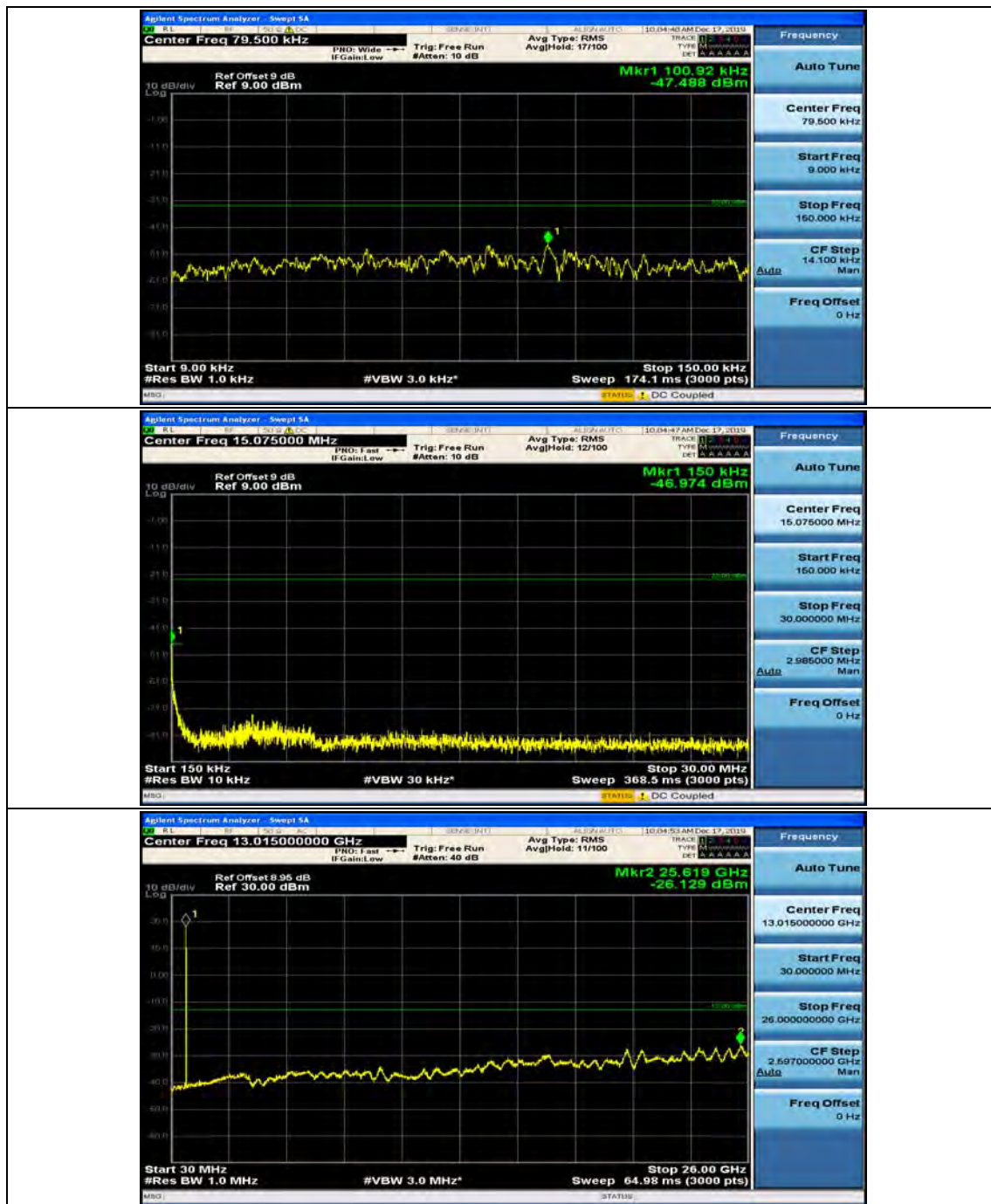


(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0

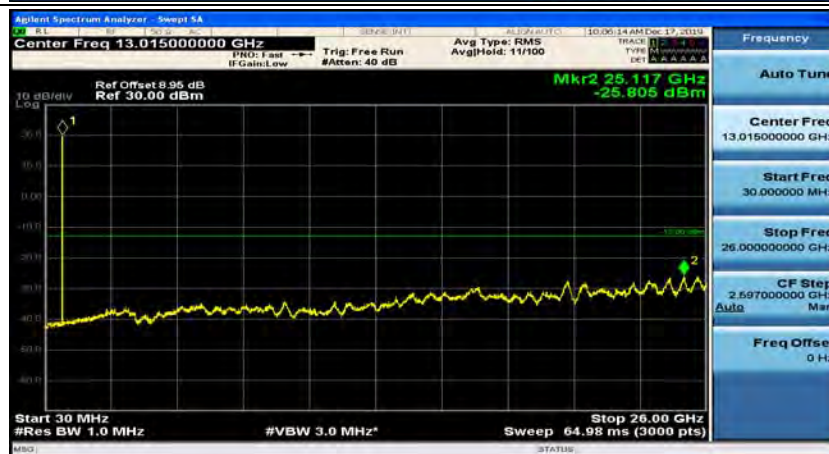
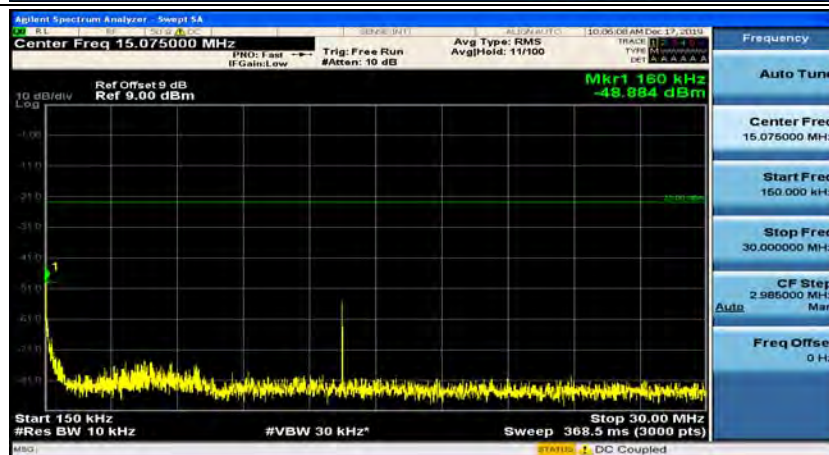


(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12

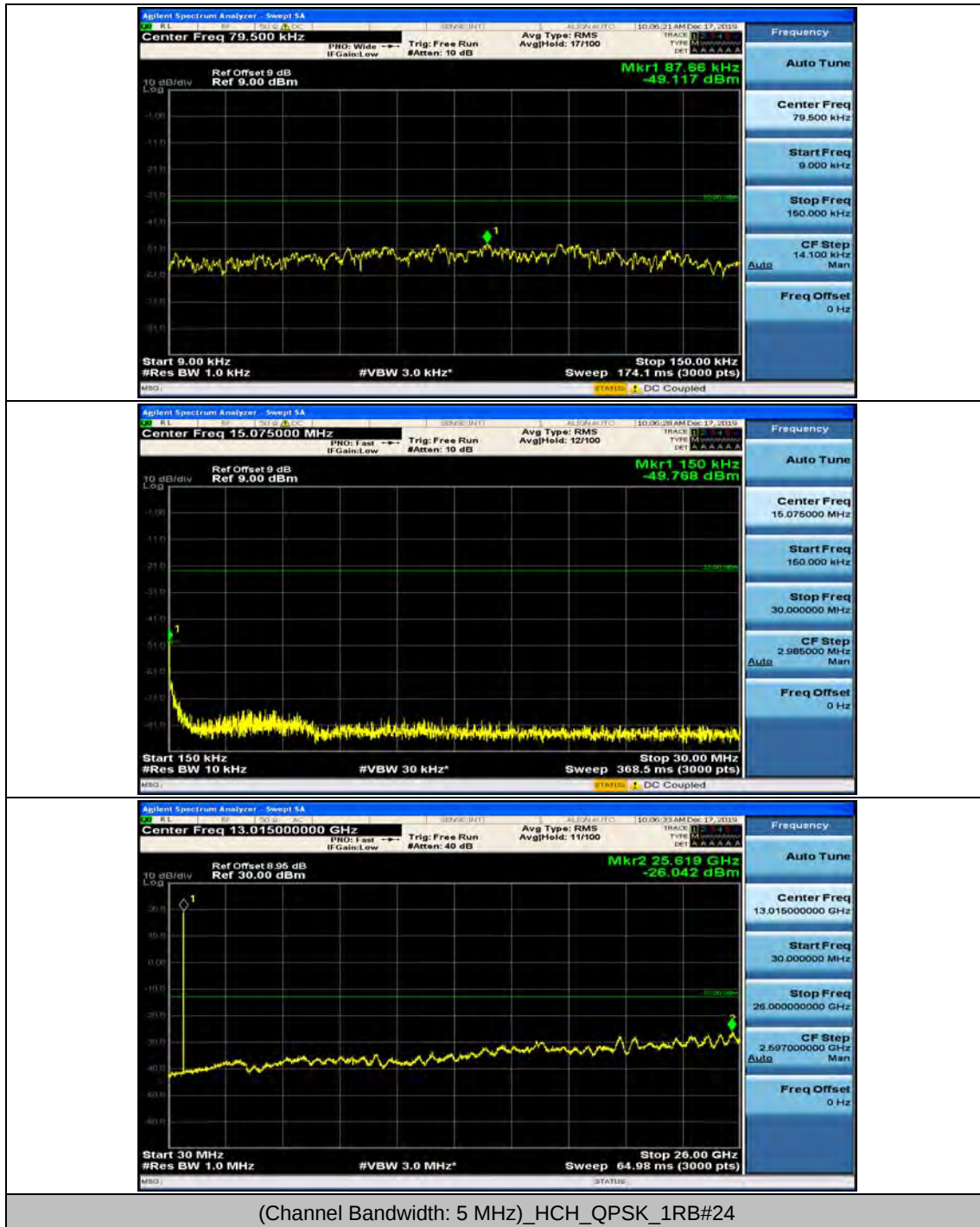


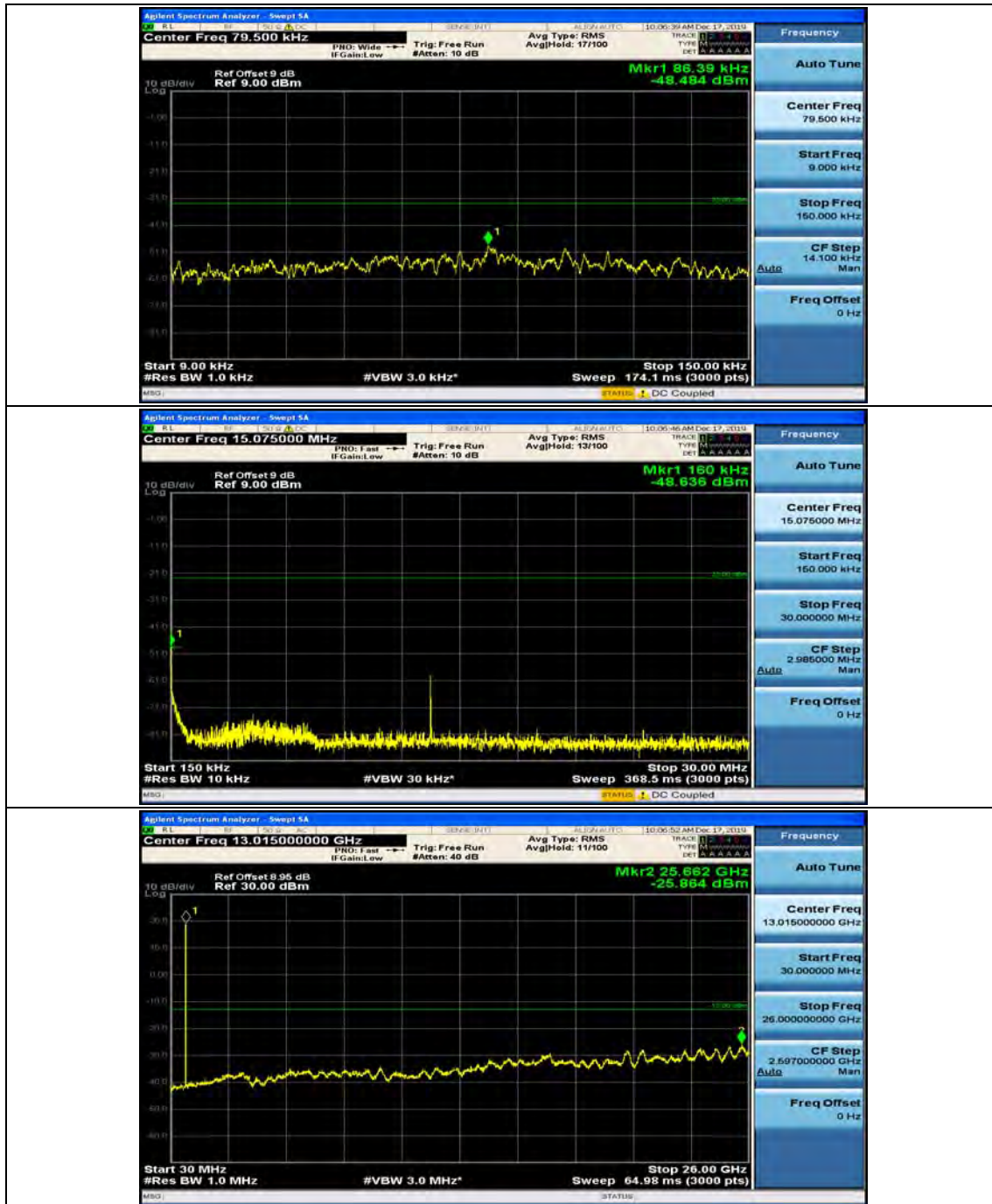


(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0

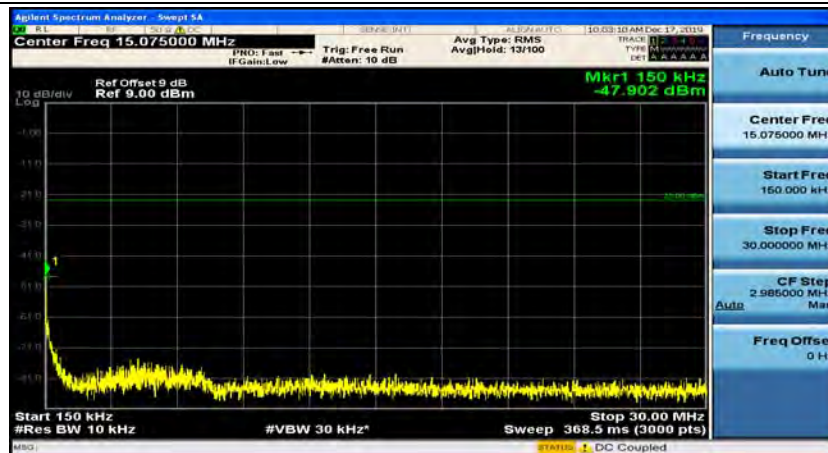


(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12

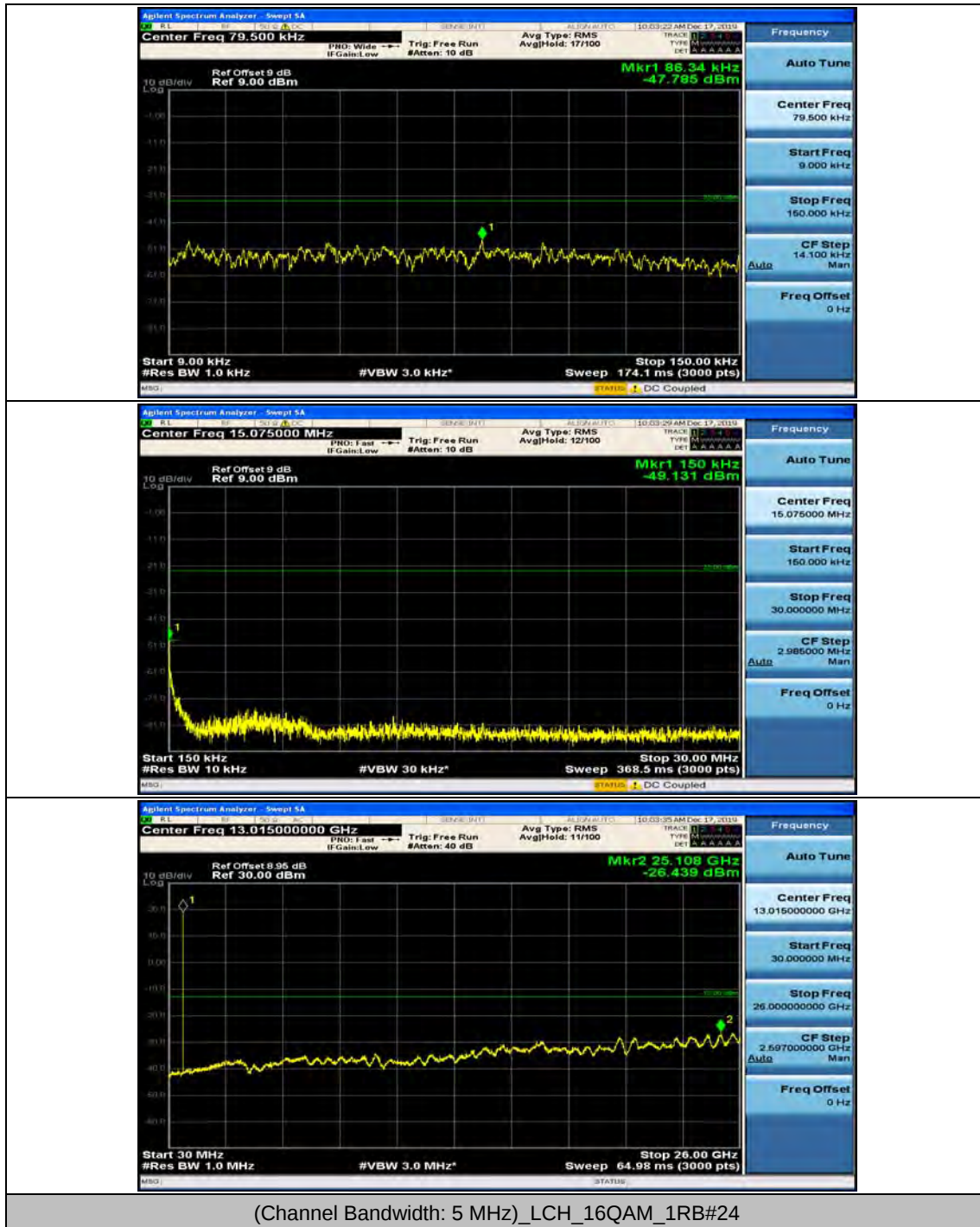


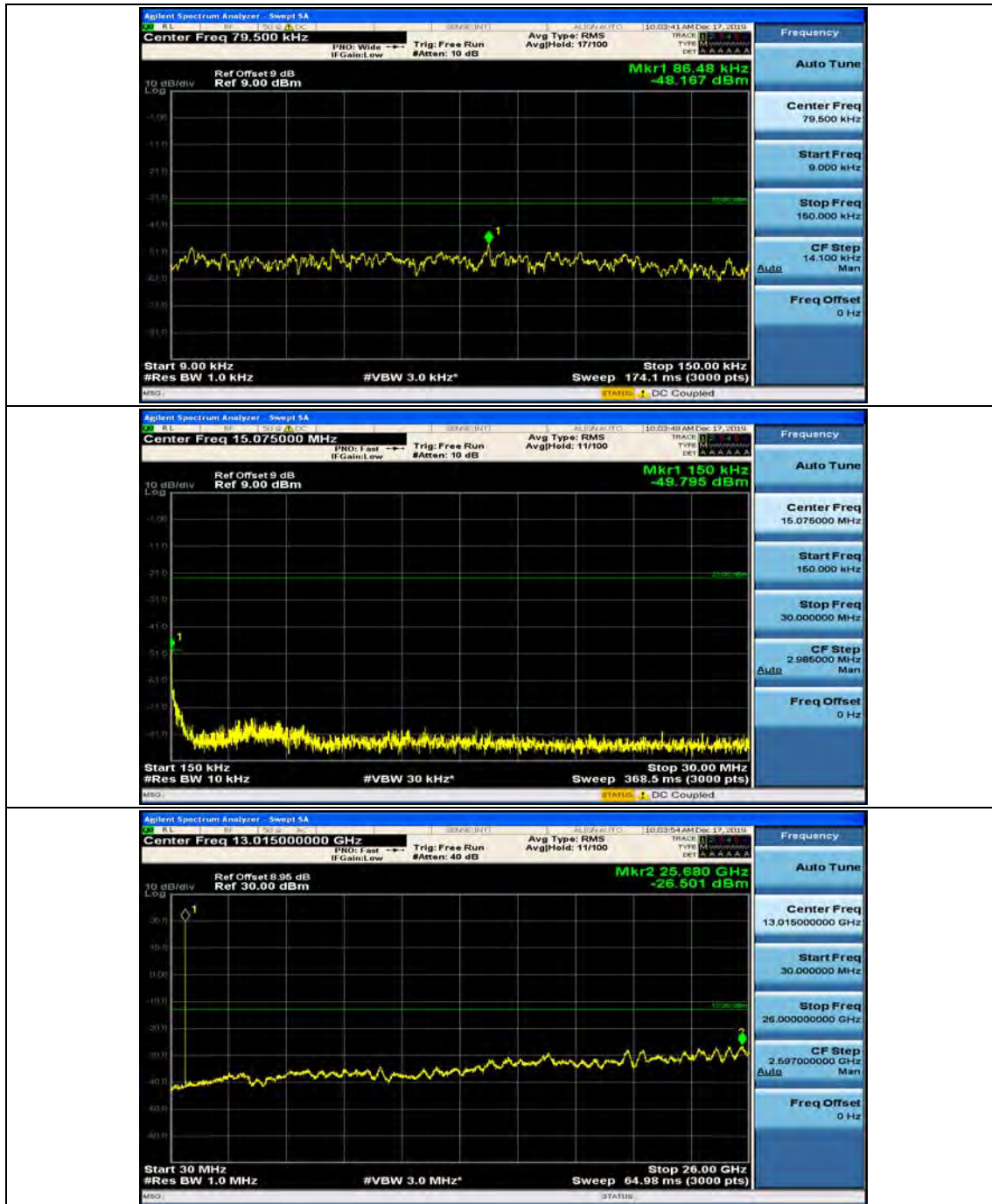


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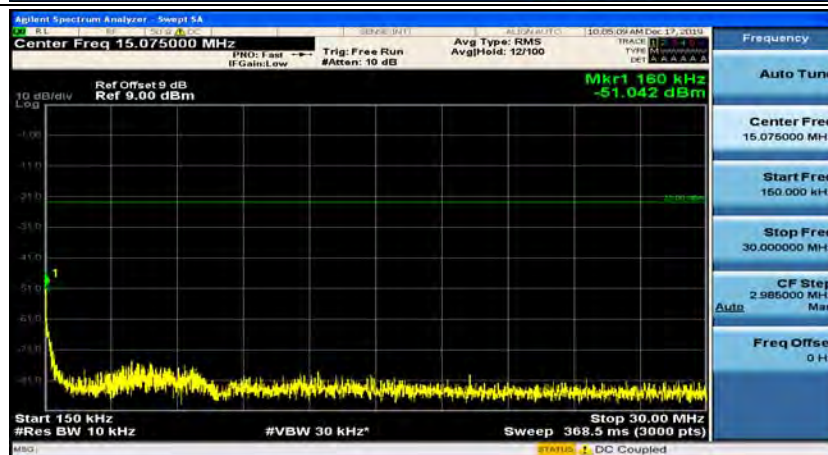
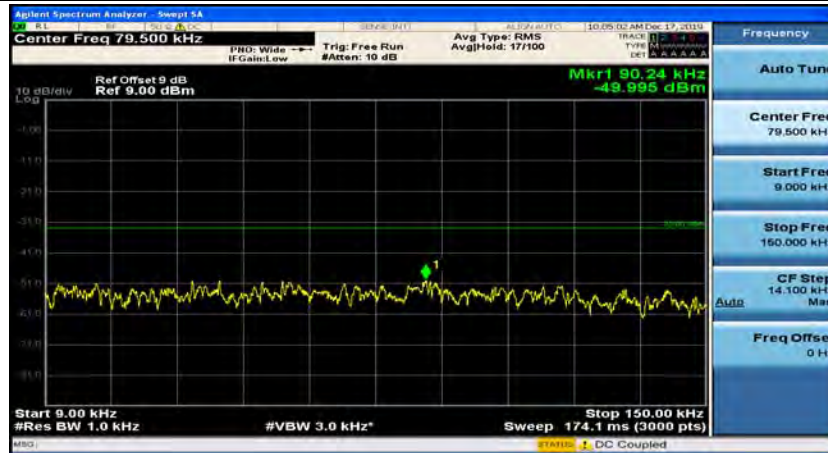


(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12

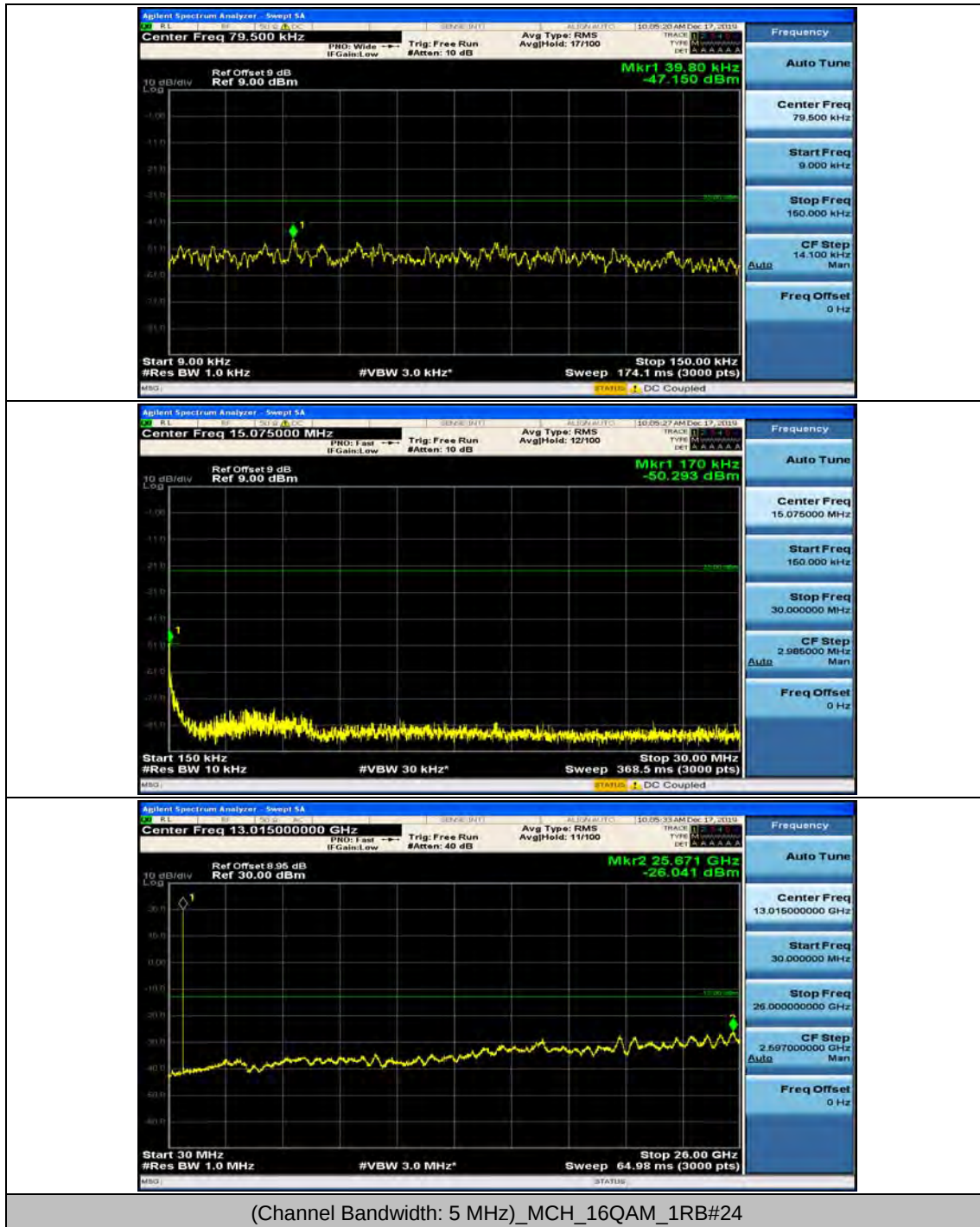


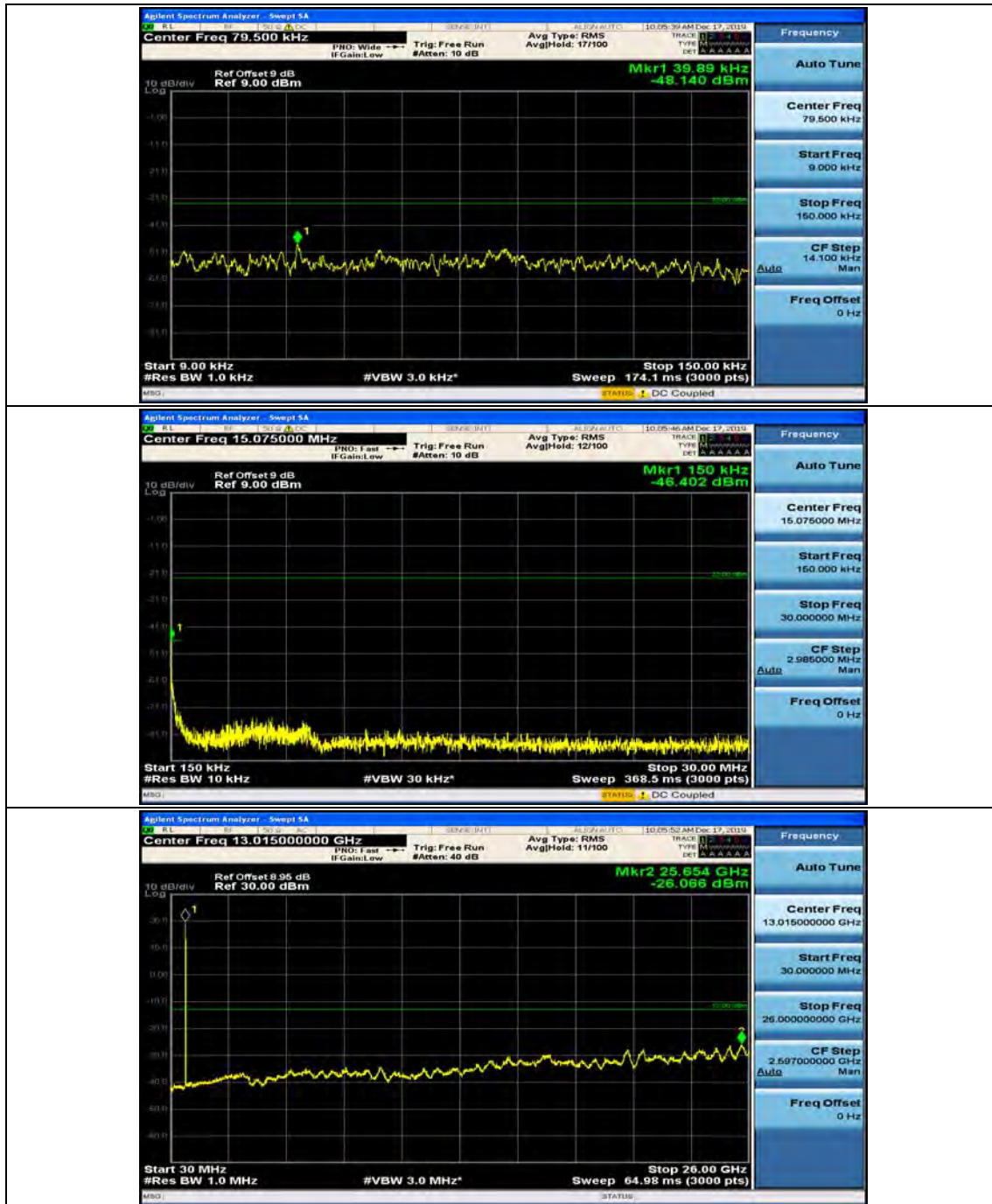


(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0

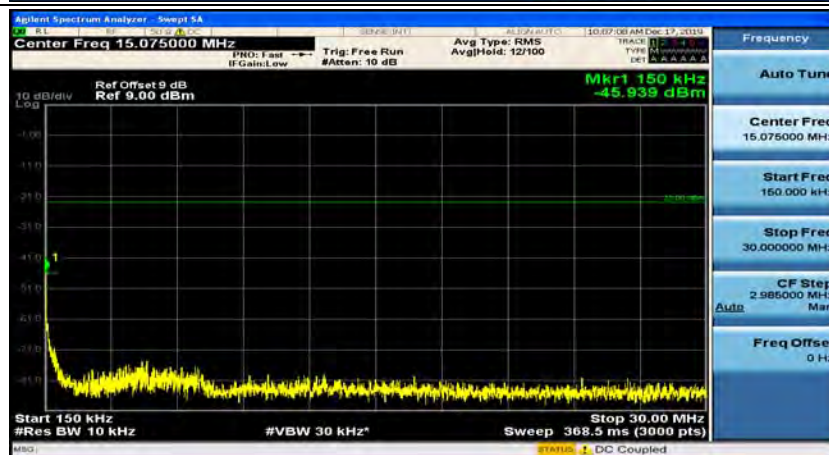


(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#12

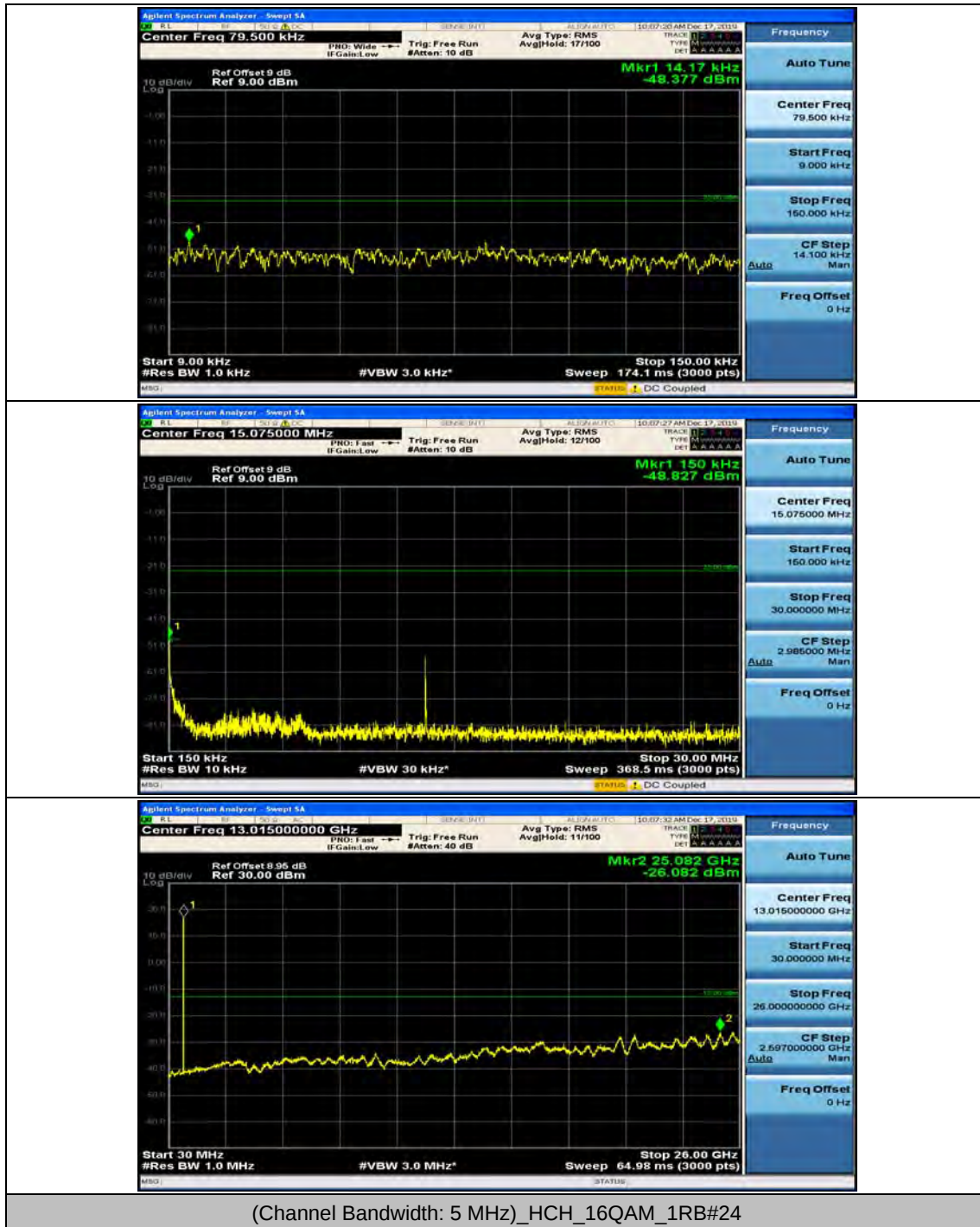


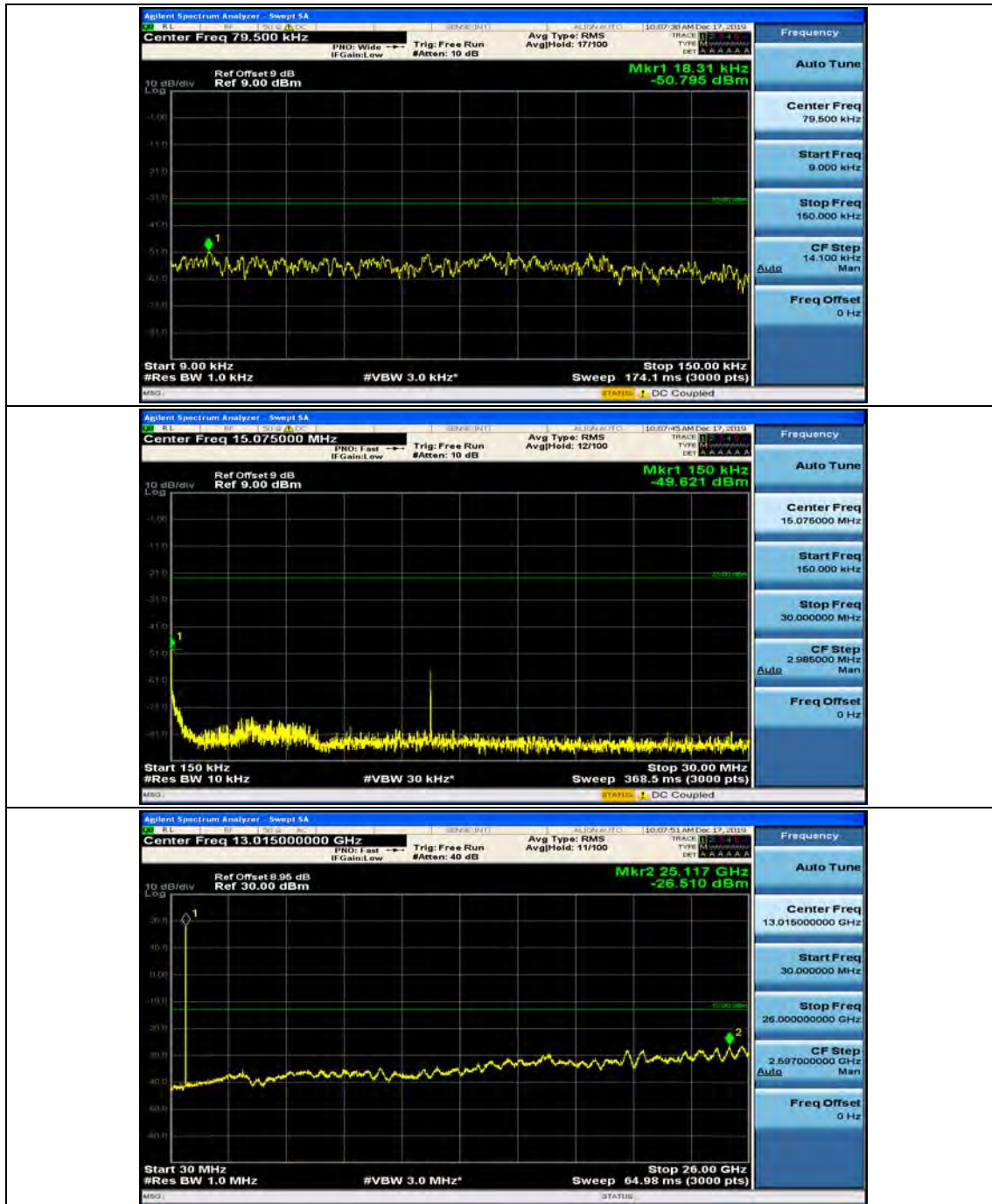


(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0

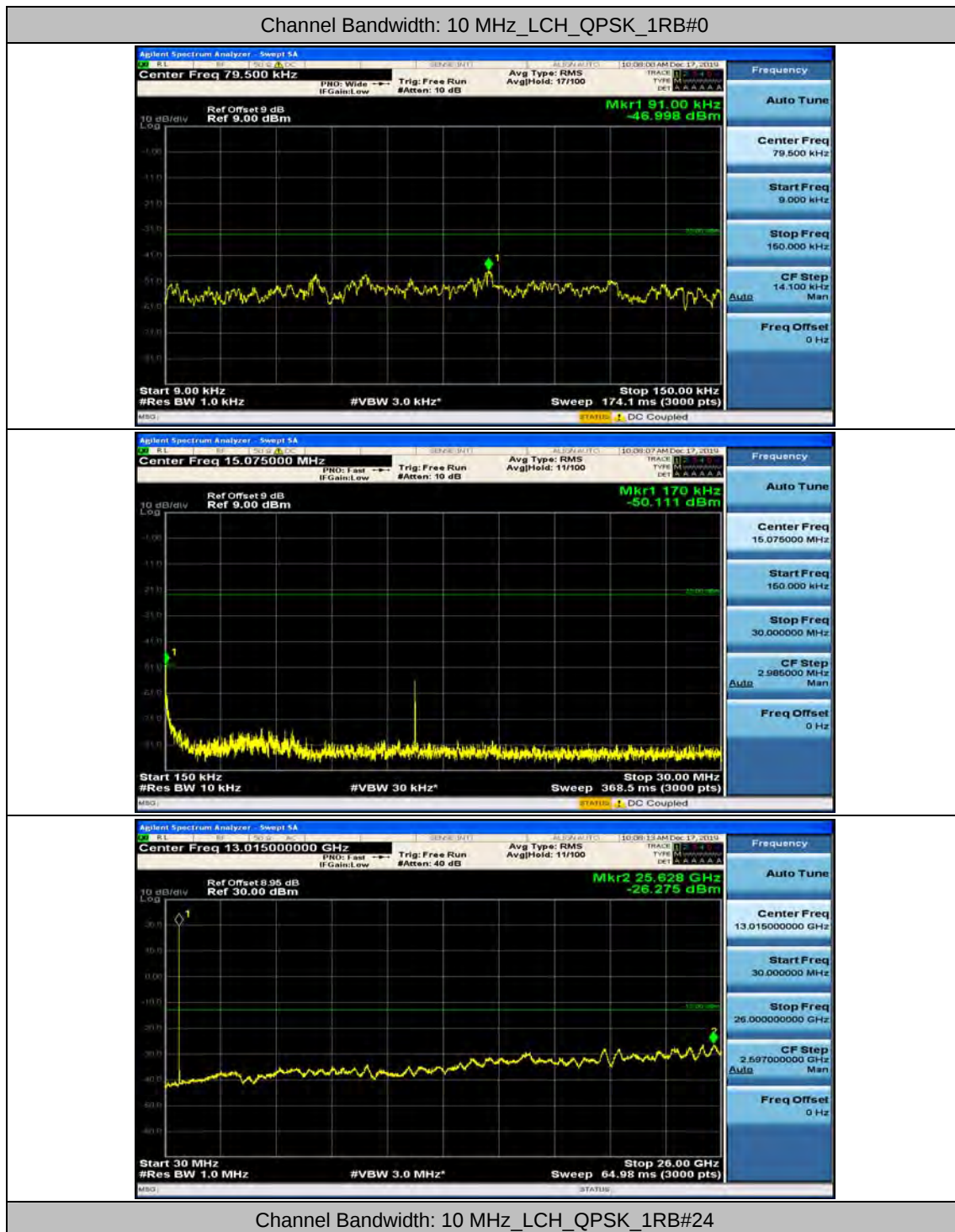


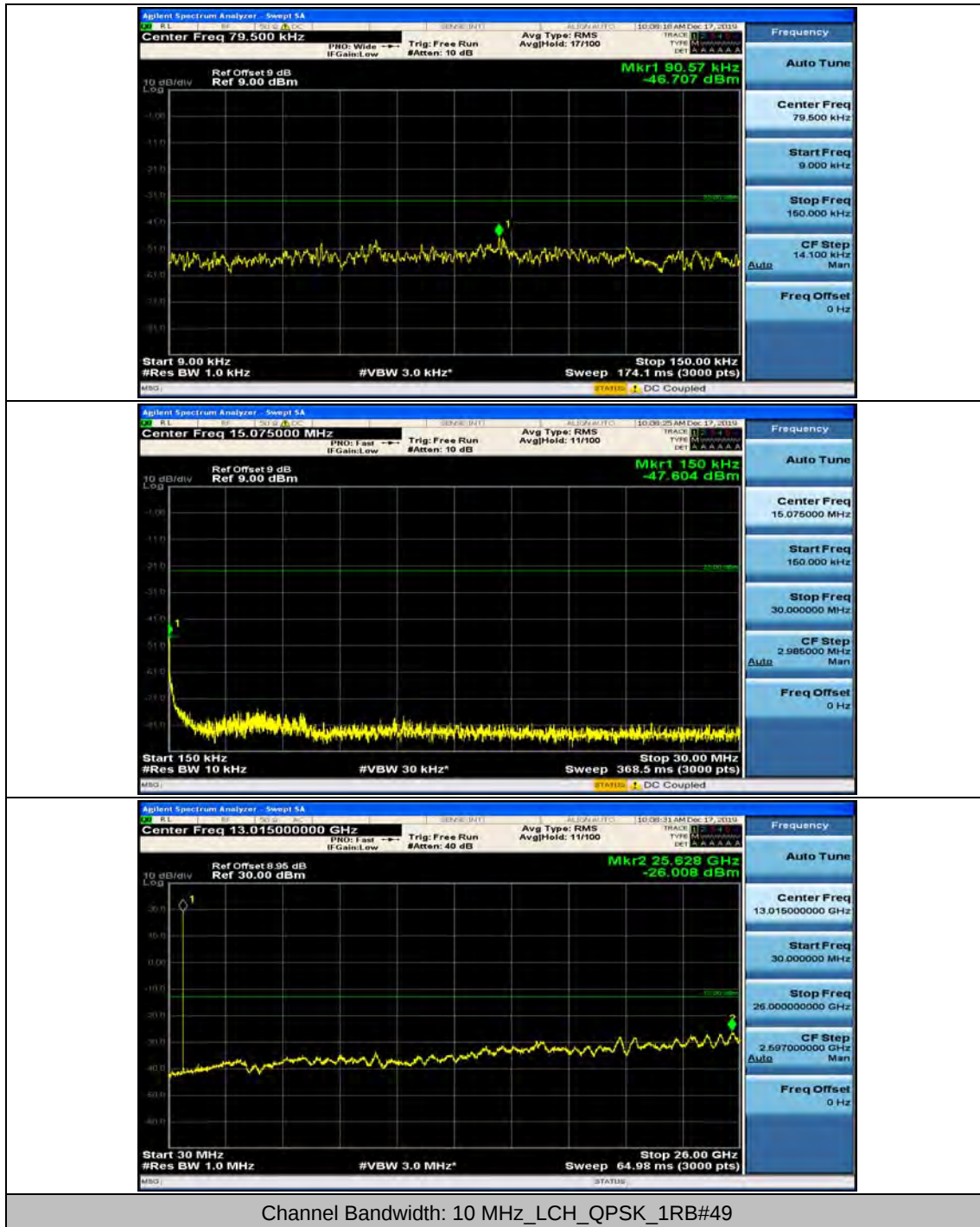
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12

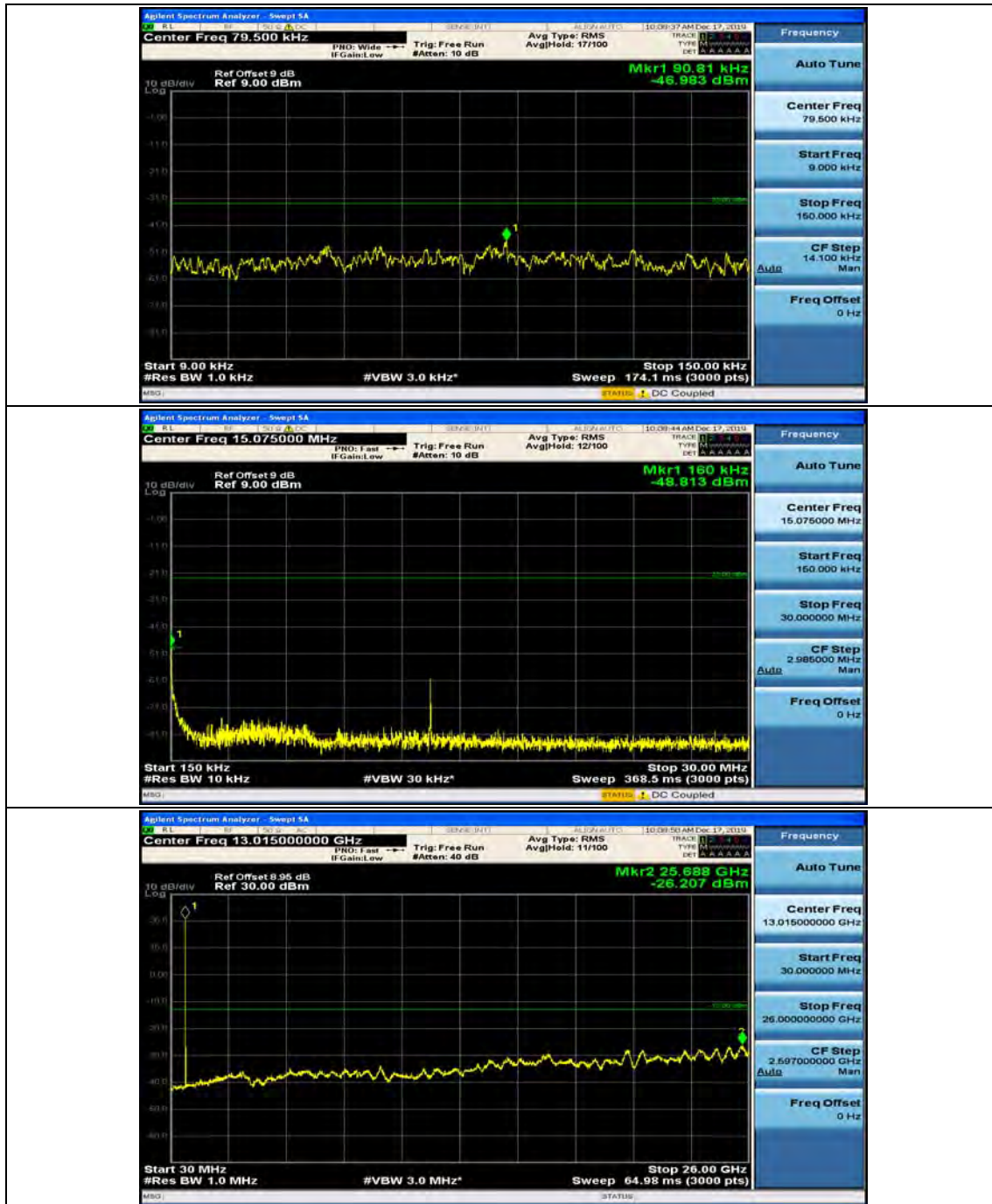




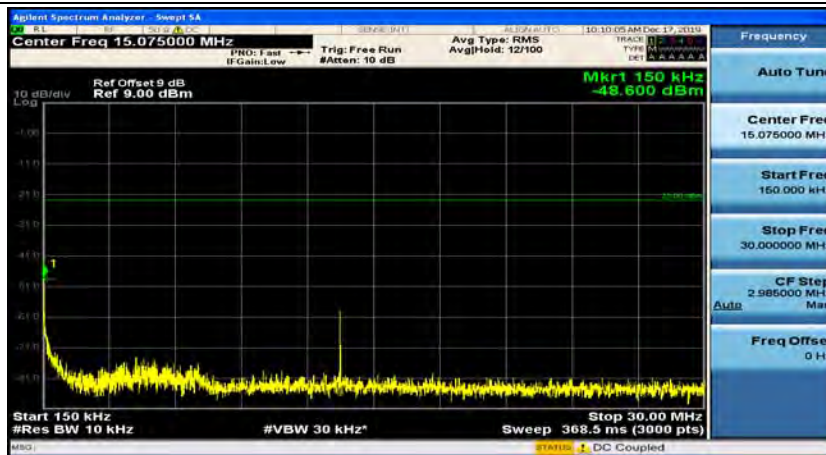
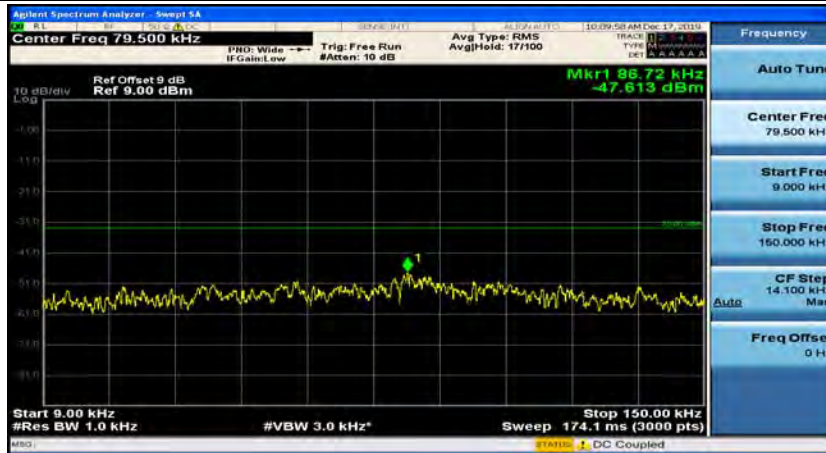
Channel Bandwidth: 10 MHz



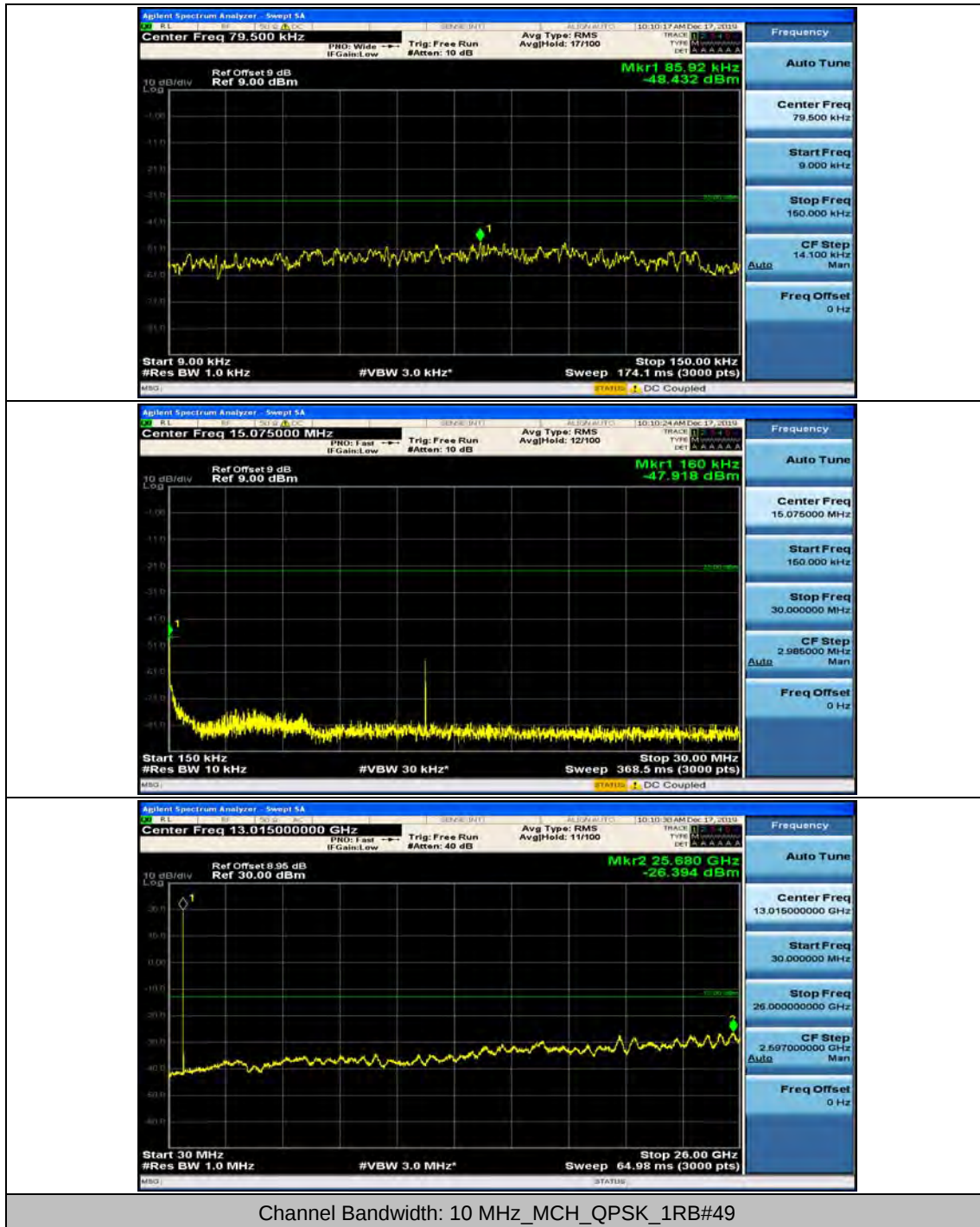


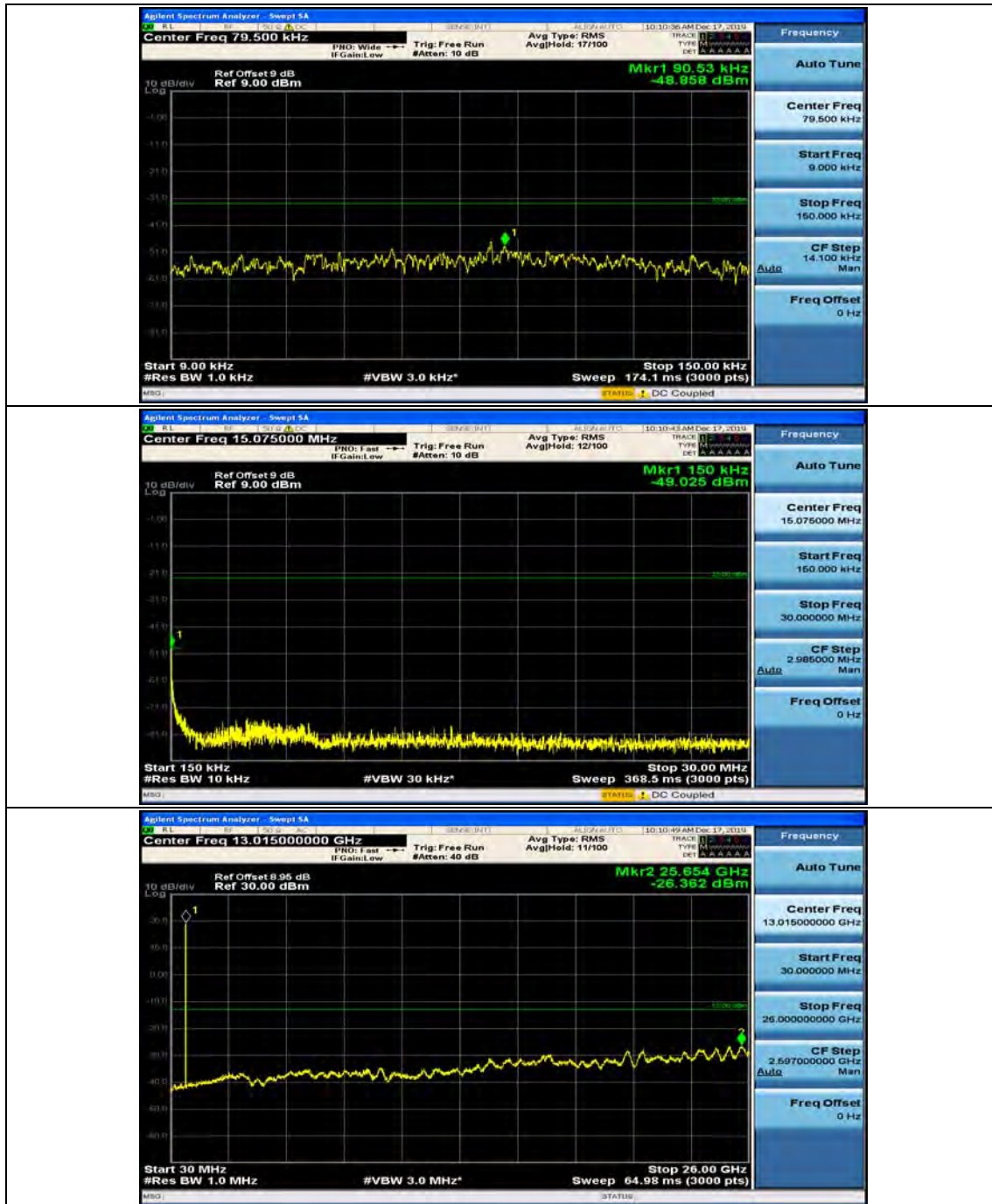


Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#0

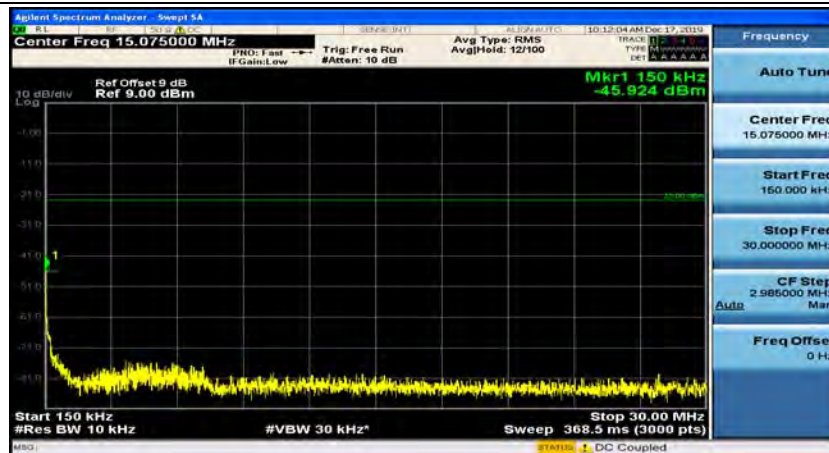
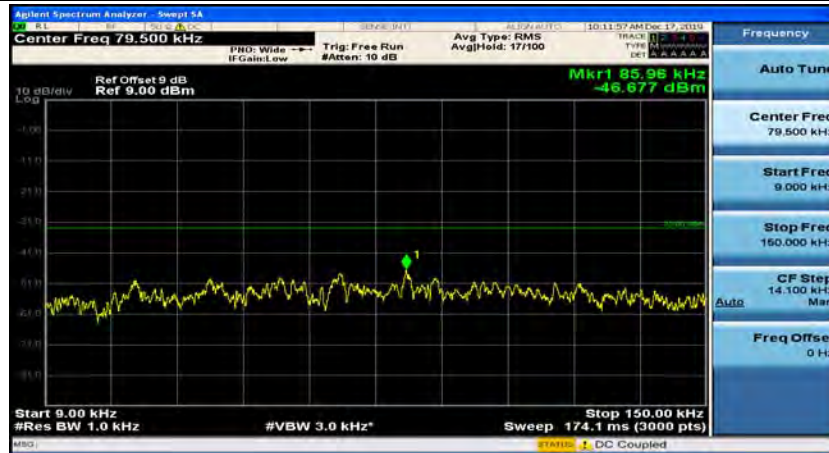


Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#24

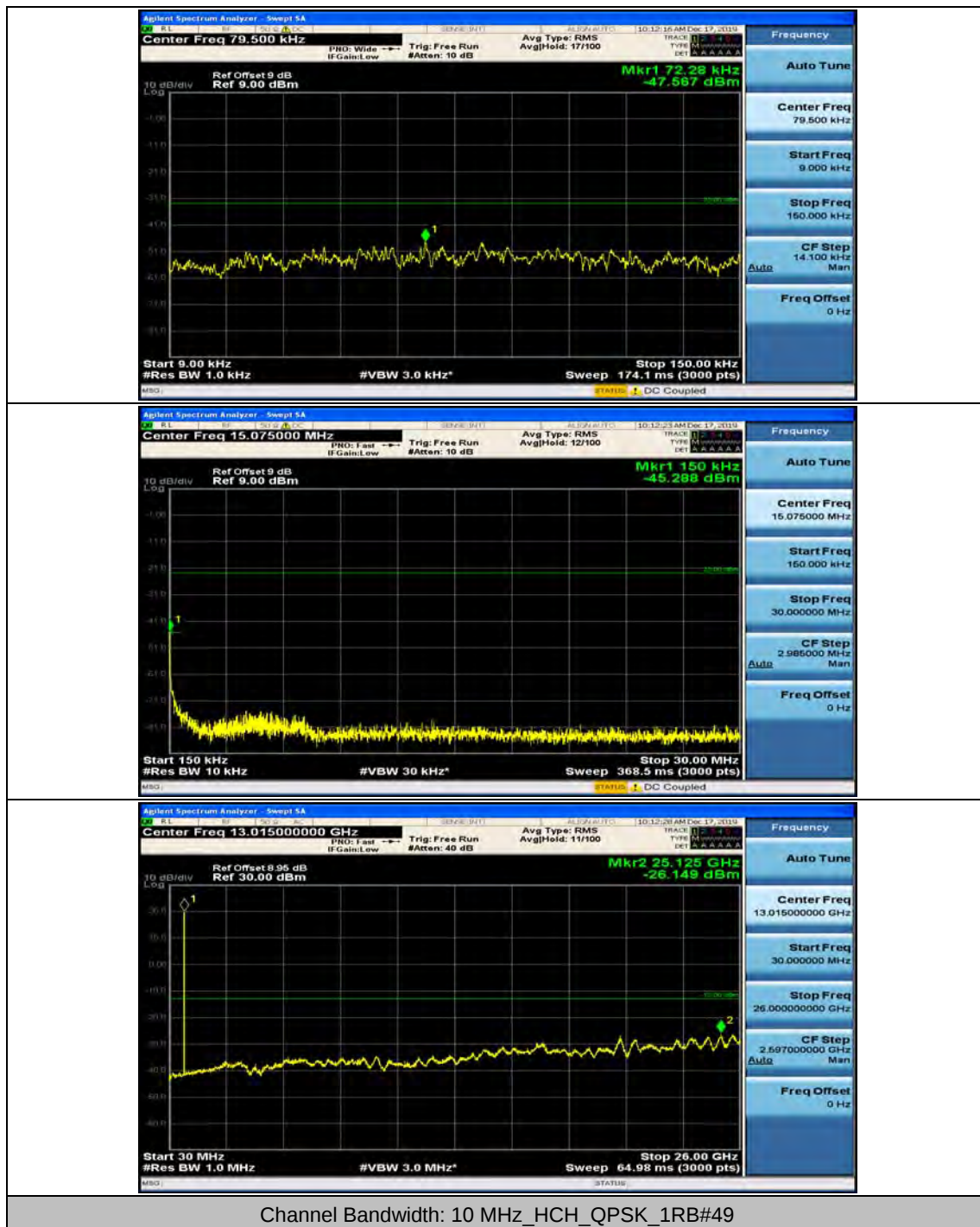


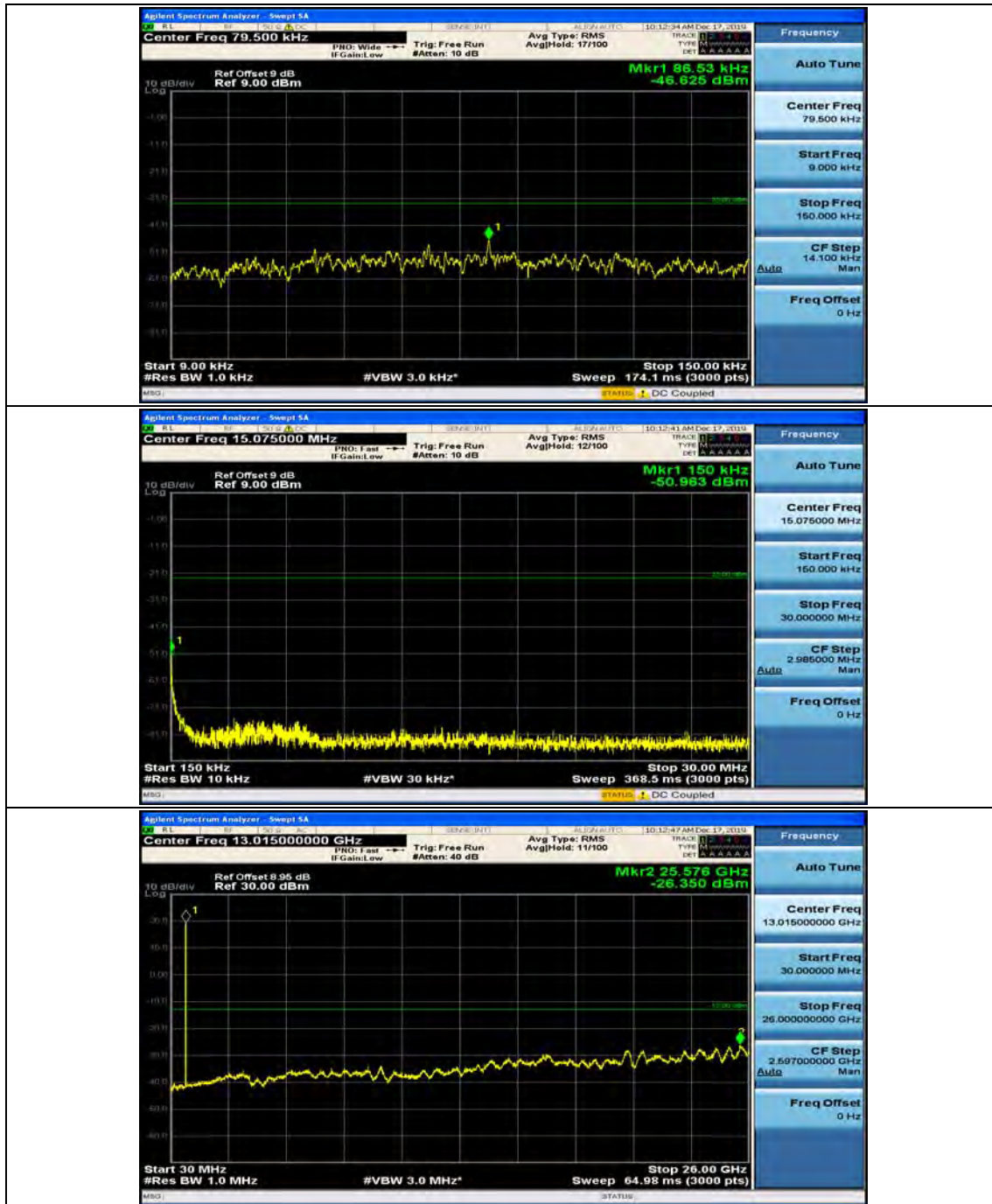


Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#0

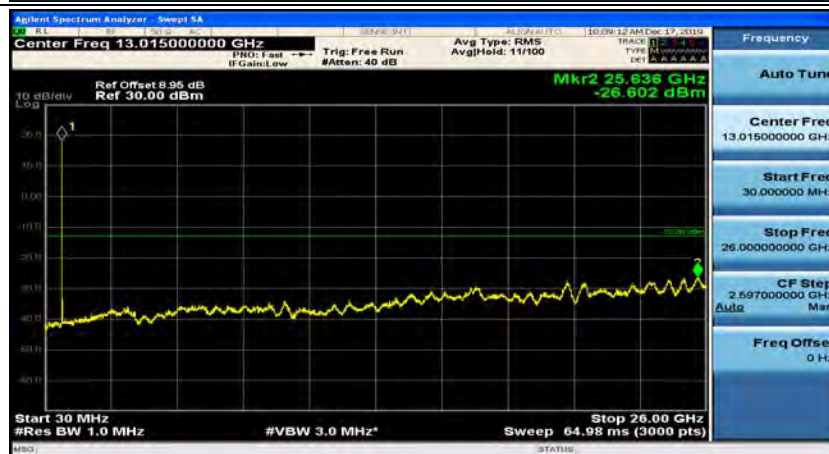
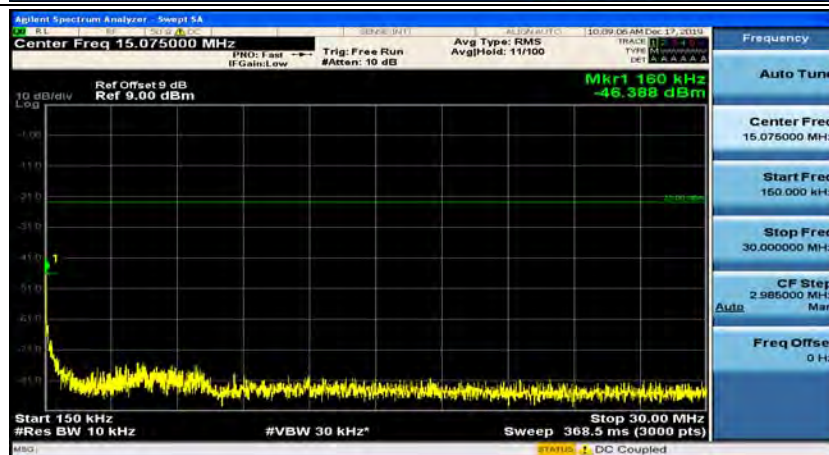


Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#24

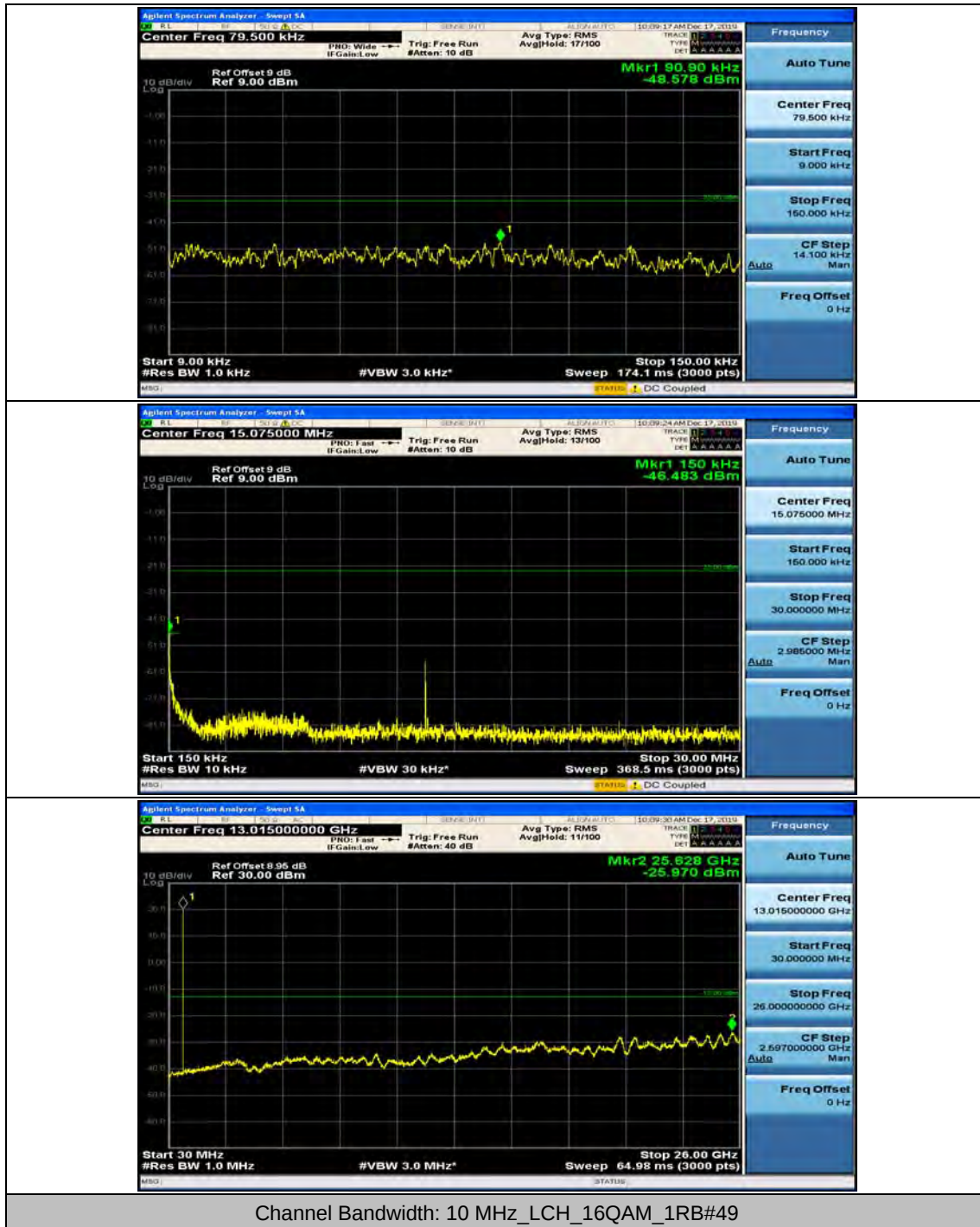


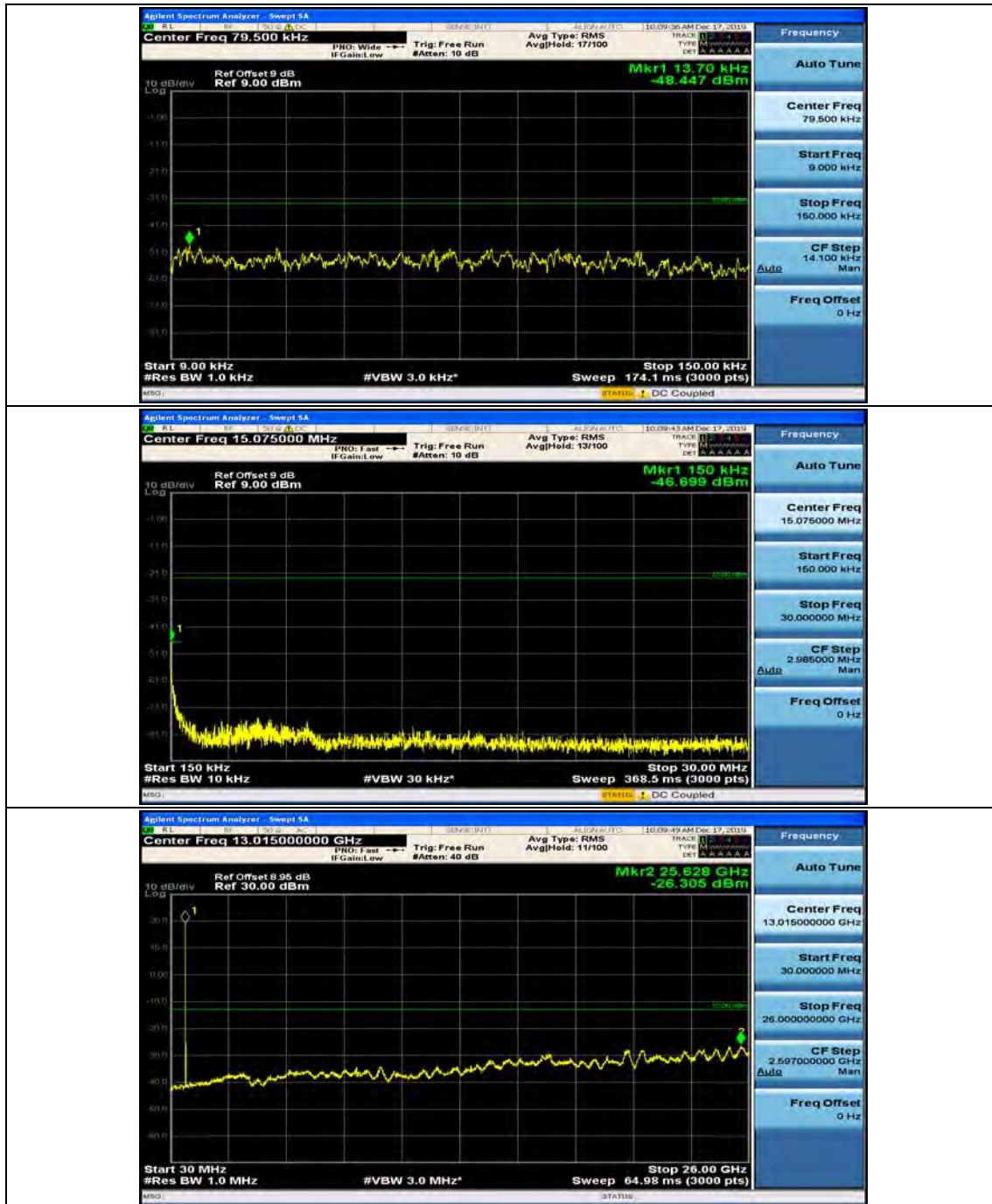


Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0

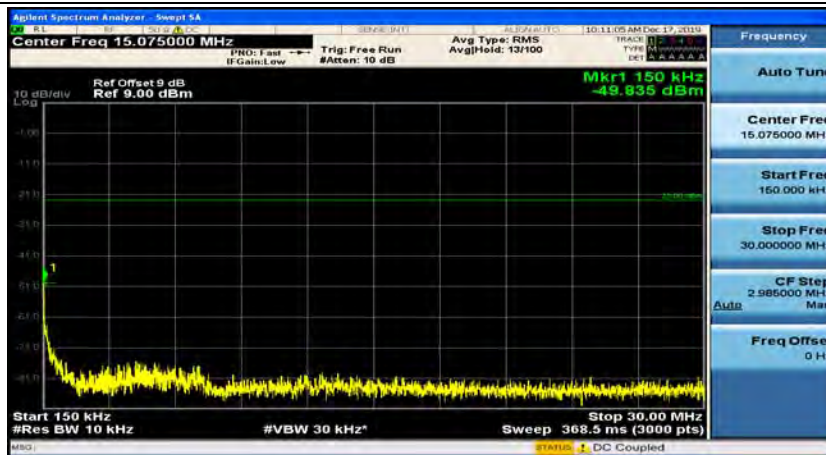


Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#24

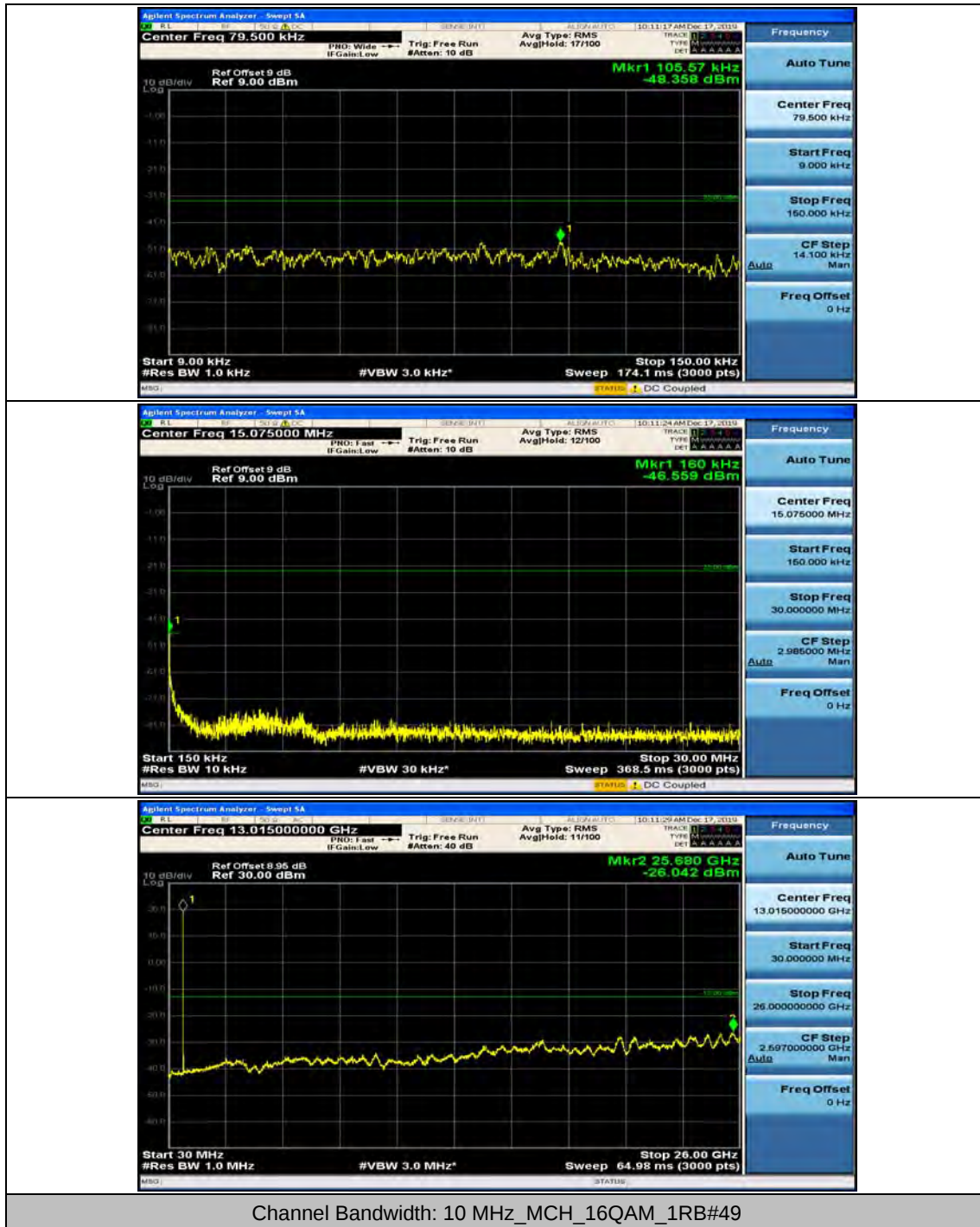


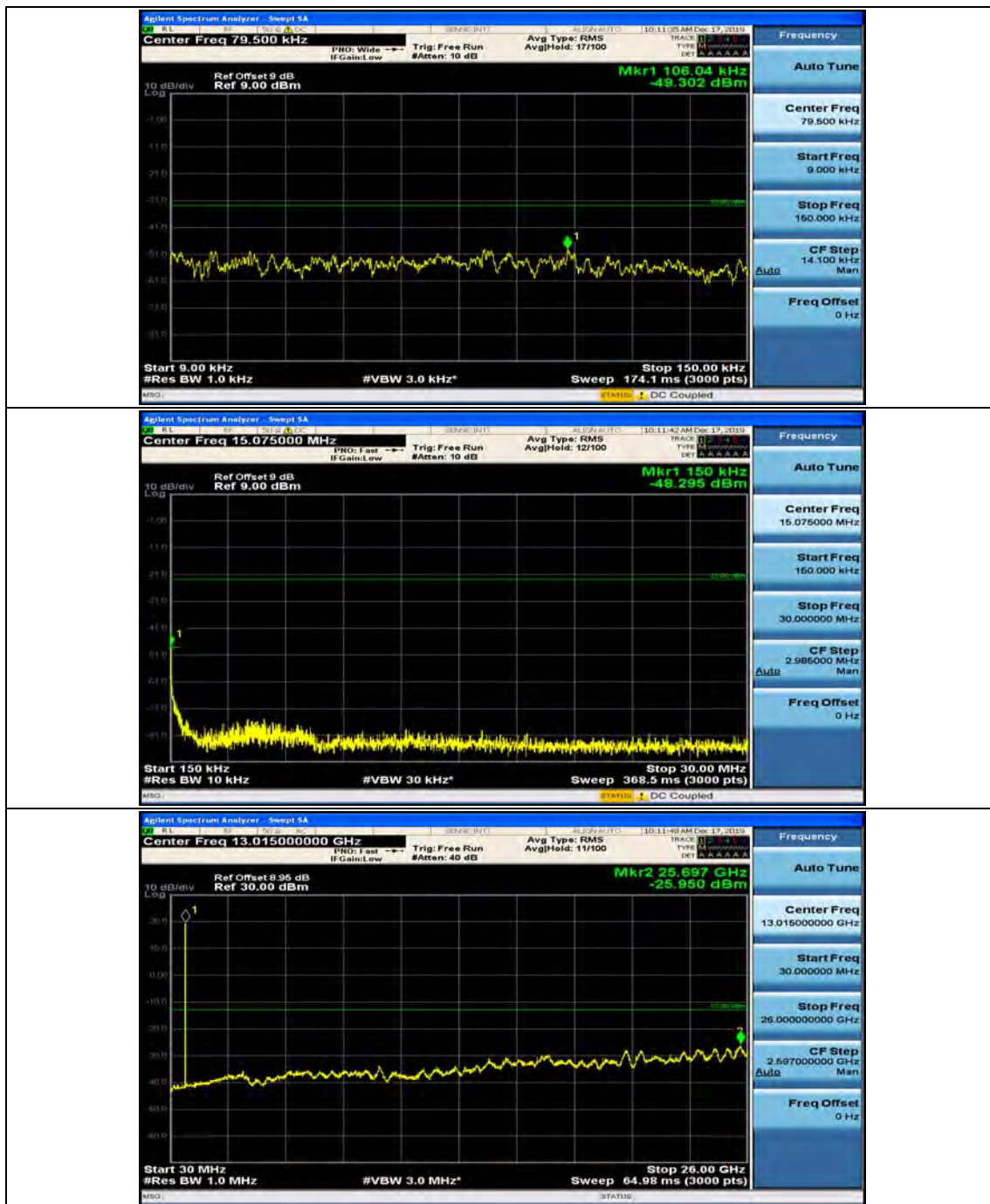


Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0

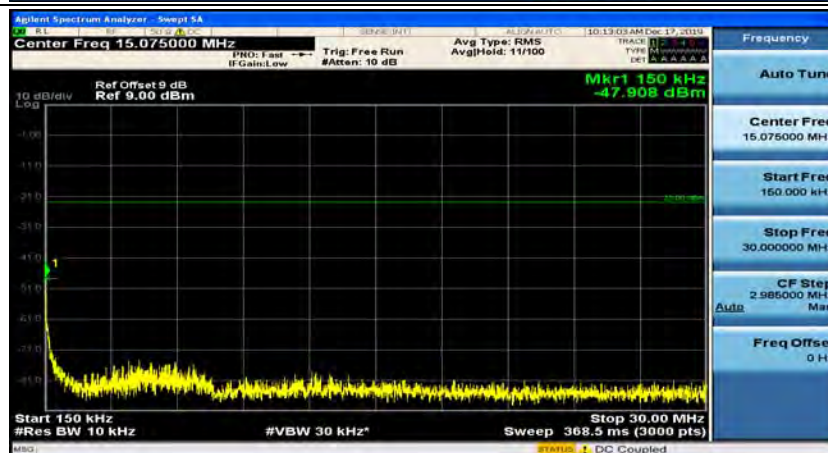
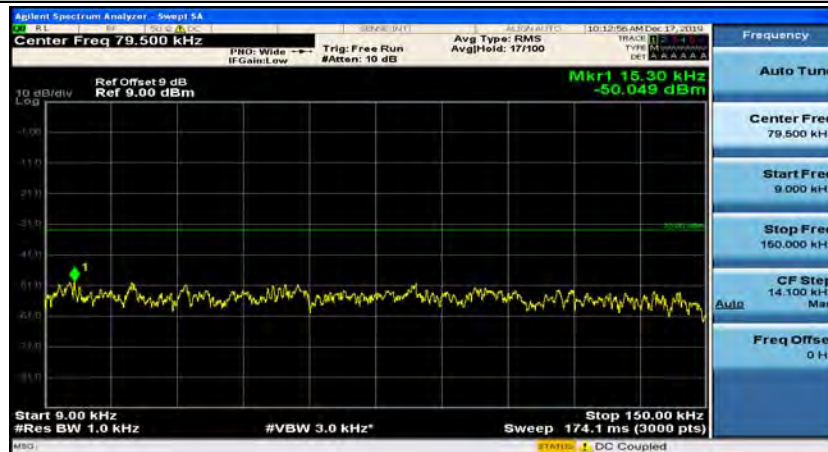


Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#24

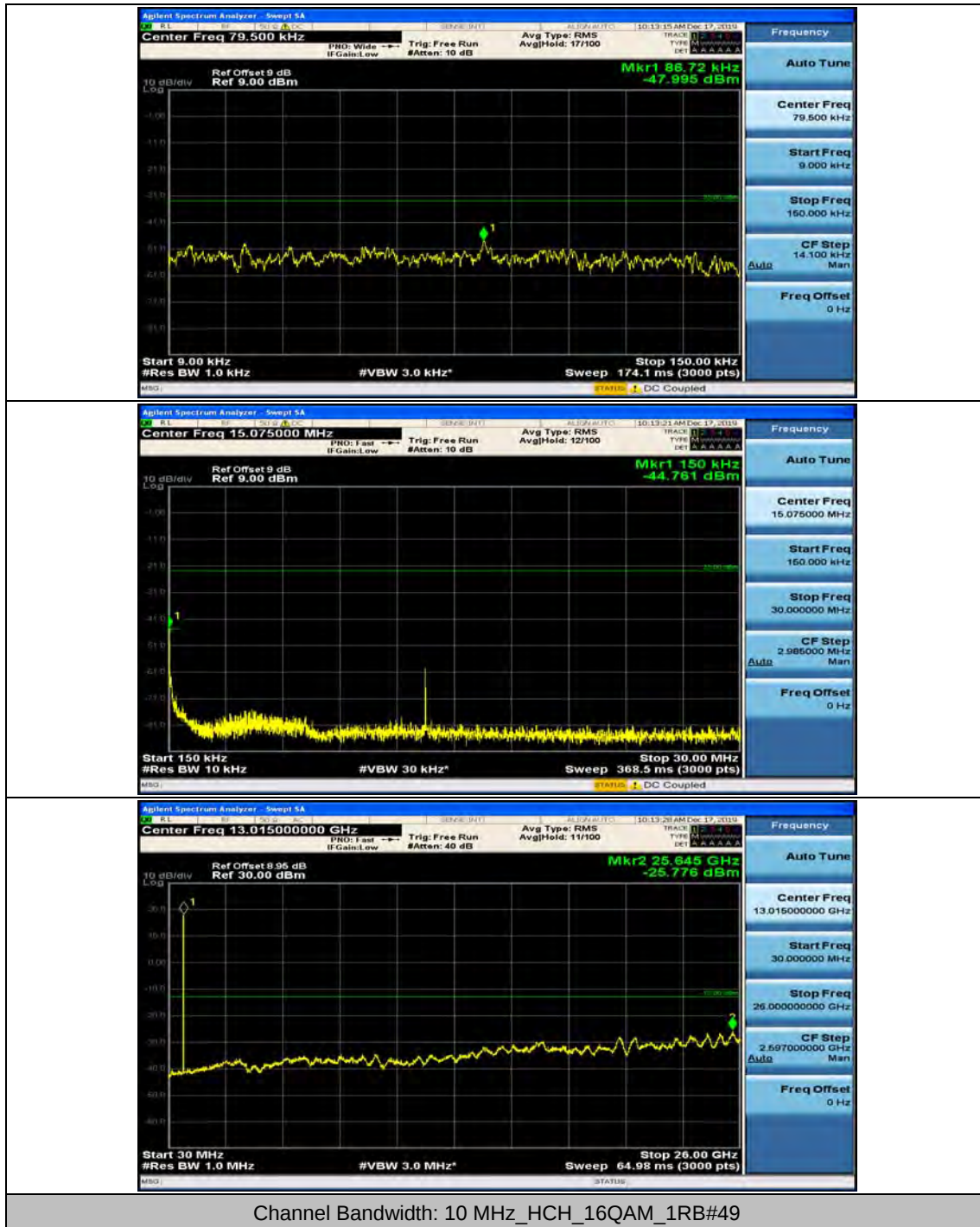


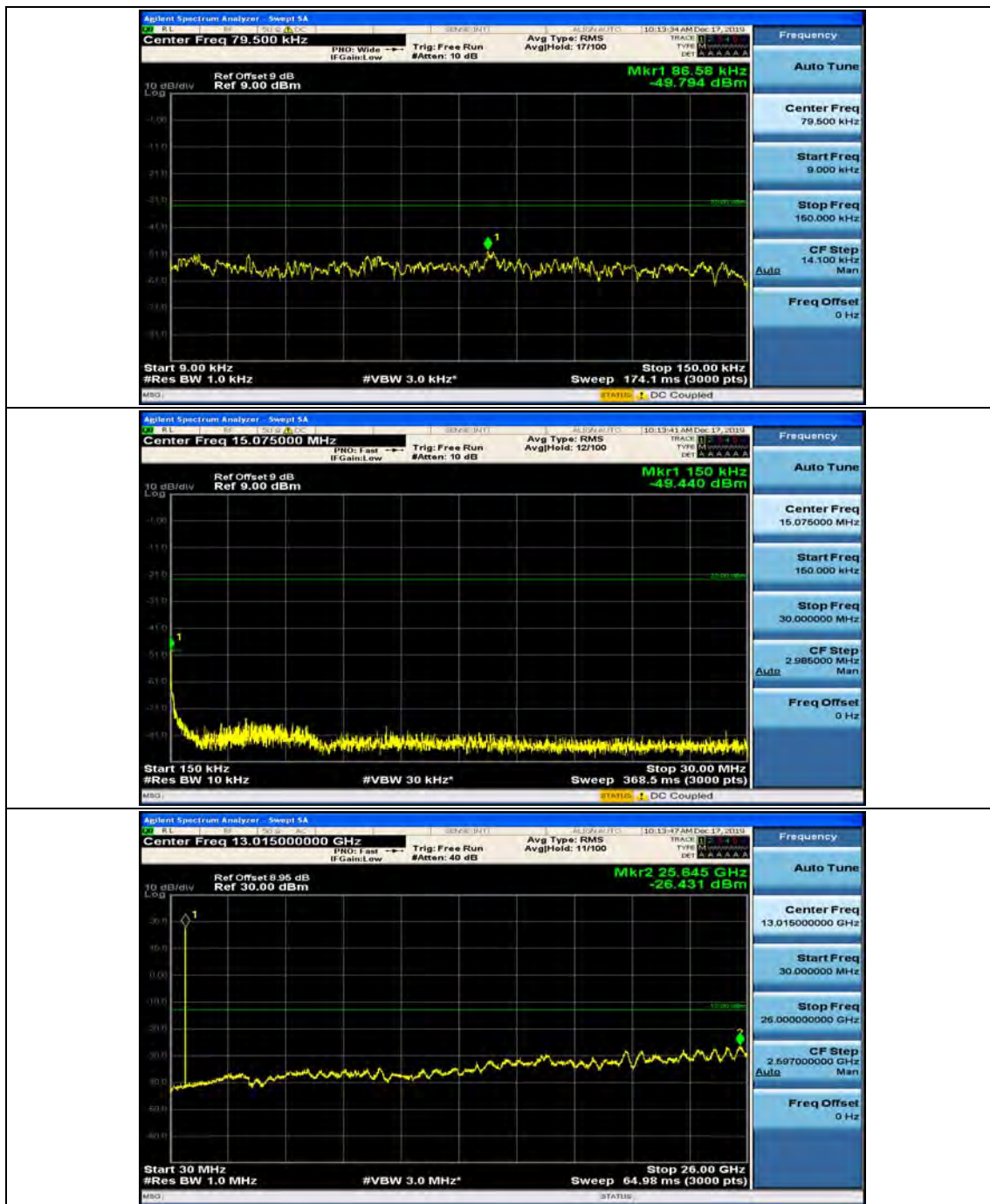


Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0



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	-1.06	-0.001515	± 2.5	PASS
		VN	TN	1	0.001429	± 2.5	PASS
		VH	TN	2.16	0.003087	± 2.5	PASS
	MCH	VL	TN	3.65	0.005159	± 2.5	PASS
		VN	TN	-0.79	-0.001117	± 2.5	PASS
		VH	TN	1.11	0.001569	± 2.5	PASS
	HCH	VL	TN	4.45	0.006221	± 2.5	PASS
		VN	TN	-0.25	-0.000350	± 2.5	PASS
		VH	TN	-0.01	-0.000014	± 2.5	PASS
16QAM	LCH	VL	TN	0	0.000000	± 2.5	PASS
		VN	TN	3.14	0.004488	± 2.5	PASS
		VH	TN	2.03	0.002901	± 2.5	PASS
	MCH	VL	TN	-1.17	-0.001654	± 2.5	PASS
		VN	TN	0.6	0.000848	± 2.5	PASS
		VH	TN	1.56	0.002205	± 2.5	PASS
	HCH	VL	TN	0.84	0.001174	± 2.5	PASS
		VN	TN	3.25	0.004544	± 2.5	PASS
		VH	TN	4.47	0.006249	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.81	0.001158	± 2.5	PASS
		VN	-20	-1.53	-0.002187	± 2.5	PASS
		VN	-10	1.96	0.002801	± 2.5	PASS
		VN	0	3.01	0.004302	± 2.5	PASS
		VN	10	-0.45	-0.000643	± 2.5	PASS
		VN	20	-1.8	-0.002573	± 2.5	PASS
		VN	30	-1.33	-0.001901	± 2.5	PASS
		VN	40	-1.54	-0.002201	± 2.5	PASS
		VN	50	0.49	0.000700	± 2.5	PASS
	MCH	VN	-30	0.12	0.000170	± 2.5	PASS
VN		-20	2.53	0.003576	± 2.5	PASS	

		VN	-10	2.04	0.002883	± 2.5	PASS
		VN	0	3.76	0.005314	± 2.5	PASS
		VN	10	2.05	0.002898	± 2.5	PASS
		VN	20	-1.18	-0.001668	± 2.5	PASS
		VN	30	3.26	0.004608	± 2.5	PASS
		VN	40	4.27	0.006035	± 2.5	PASS
		VN	50	3.61	0.005102	± 2.5	PASS
	HCH	VN	-30	3.96	0.005536	± 2.5	PASS
		VN	-20	2.15	0.003006	± 2.5	PASS
		VN	-10	3.18	0.004446	± 2.5	PASS
		VN	0	1.49	0.002083	± 2.5	PASS
		VN	10	2.39	0.003341	± 2.5	PASS
		VN	20	-1.78	-0.002488	± 2.5	PASS
		VN	30	-1.61	-0.002251	± 2.5	PASS
		VN	40	1.8	0.002516	± 2.5	PASS
		VN	50	3.97	0.005550	± 2.5	PASS
16QAM	LCH	VN	-30	-0.39	-0.000557	± 2.5	PASS
		VN	-20	-0.6	-0.000858	± 2.5	PASS
		VN	-10	4.64	0.006631	± 2.5	PASS
		VN	0	-1.67	-0.002387	± 2.5	PASS
		VN	10	0.18	0.000257	± 2.5	PASS
		VN	20	-1.38	-0.001972	± 2.5	PASS
		VN	30	1.54	0.002201	± 2.5	PASS
		VN	40	1.89	0.002701	± 2.5	PASS
		VN	50	0.65	0.000929	± 2.5	PASS
	MCH	VN	-30	2.36	0.003336	± 2.5	PASS
		VN	-20	3.49	0.004933	± 2.5	PASS
		VN	-10	-0.87	-0.001230	± 2.5	PASS
		VN	0	2.03	0.002869	± 2.5	PASS
		VN	10	0.73	0.001032	± 2.5	PASS
		VN	20	3.2	0.004523	± 2.5	PASS
		VN	30	-0.01	-0.000014	± 2.5	PASS
		VN	40	-1.73	-0.002445	± 2.5	PASS
		VN	50	-1.73	-0.002445	± 2.5	PASS
	HCH	VN	-30	4.7	0.006571	± 2.5	PASS
		VN	-20	-1.61	-0.002251	± 2.5	PASS
		VN	-10	1.72	0.002405	± 2.5	PASS
		VN	0	2.71	0.003789	± 2.5	PASS
		VN	10	-0.13	-0.000182	± 2.5	PASS
		VN	20	3.62	0.005061	± 2.5	PASS
		VN	30	0.36	0.000503	± 2.5	PASS

		VN	40	0.32	0.000447	± 2.5	PASS
		VN	50	-1.11	-0.001552	± 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	1.85	0.002641	± 2.5	PASS
		VN	TN	-0.98	-0.001399	± 2.5	PASS
		VH	TN	3.98	0.005682	± 2.5	PASS
	MCH	VL	TN	3.38	0.004777	± 2.5	PASS
		VN	TN	-0.4	-0.000565	± 2.5	PASS
		VH	TN	-1.08	-0.001527	± 2.5	PASS
	HCH	VL	TN	2.57	0.003597	± 2.5	PASS
		VN	TN	4.75	0.006648	± 2.5	PASS
		VH	TN	0.15	0.000210	± 2.5	PASS
16QAM	LCH	VL	TN	3.39	0.004839	± 2.5	PASS
		VN	TN	1.74	0.002484	± 2.5	PASS
		VH	TN	-1.58	-0.002256	± 2.5	PASS
	MCH	VL	TN	2.53	0.003576	± 2.5	PASS
		VN	TN	-1.64	-0.002318	± 2.5	PASS
		VH	TN	-1.51	-0.002134	± 2.5	PASS
	HCH	VL	TN	0.42	0.000588	± 2.5	PASS
		VN	TN	3.14	0.004395	± 2.5	PASS
		VH	TN	2.73	0.003821	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.95	-0.002784	± 2.5	PASS
		VN	-20	-0.05	-0.000071	± 2.5	PASS
		VN	-10	1.63	0.002327	± 2.5	PASS
		VN	0	1.19	0.001699	± 2.5	PASS
		VN	10	3.71	0.005296	± 2.5	PASS
		VN	20	4.43	0.006324	± 2.5	PASS
		VN	30	-1.74	-0.002484	± 2.5	PASS
		VN	40	-0.7	-0.000999	± 2.5	PASS
		VN	50	0.39	0.000557	± 2.5	PASS
	MCH	VN	-30	4.52	0.006389	± 2.5	PASS
		VN	-20	4.32	0.006106	± 2.5	PASS
		VN	-10	3.37	0.004763	± 2.5	PASS

		VN	0	4.19	0.005922	± 2.5	PASS
		VN	10	1.12	0.001583	± 2.5	PASS
		VN	20	2.69	0.003802	± 2.5	PASS
		VN	30	1.12	0.001583	± 2.5	PASS
		VN	40	3.98	0.005625	± 2.5	PASS
		VN	50	4.94	0.006982	± 2.5	PASS
	HCH	VN	-30	4.43	0.006200	± 2.5	PASS
		VN	-20	2.78	0.003891	± 2.5	PASS
		VN	-10	-0.34	-0.000476	± 2.5	PASS
		VN	0	1.55	0.002169	± 2.5	PASS
		VN	10	3	0.004199	± 2.5	PASS
		VN	20	3.03	0.004241	± 2.5	PASS
		VN	30	2.58	0.003611	± 2.5	PASS
		VN	40	-1.37	-0.001917	± 2.5	PASS
		VN	50	3.2	0.004479	± 2.5	PASS
16QAM	LCH	VN	-30	-0.02	-0.000029	± 2.5	PASS
		VN	-20	-1.24	-0.001770	± 2.5	PASS
		VN	-10	-0.91	-0.001299	± 2.5	PASS
		VN	0	1.53	0.002184	± 2.5	PASS
		VN	10	4.37	0.006238	± 2.5	PASS
		VN	20	-1.07	-0.001527	± 2.5	PASS
		VN	30	3.92	0.005596	± 2.5	PASS
		VN	40	0.59	0.000842	± 2.5	PASS
		VN	50	-0.96	-0.001370	± 2.5	PASS
	MCH	VN	-30	2.04	0.002883	± 2.5	PASS
		VN	-20	2.67	0.003774	± 2.5	PASS
		VN	-10	2.65	0.003746	± 2.5	PASS
		VN	0	3.86	0.005456	± 2.5	PASS
		VN	10	1.99	0.002813	± 2.5	PASS
		VN	20	2.32	0.003279	± 2.5	PASS
		VN	30	-1.39	-0.001965	± 2.5	PASS
		VN	40	1.4	0.001979	± 2.5	PASS
		VN	50	4.43	0.006261	± 2.5	PASS
	HCH	VN	-30	3.14	0.004395	± 2.5	PASS
		VN	-20	3.01	0.004213	± 2.5	PASS
		VN	-10	-1.51	-0.002113	± 2.5	PASS
		VN	0	2.18	0.003051	± 2.5	PASS
		VN	10	-1.46	-0.002043	± 2.5	PASS
		VN	20	3.92	0.005486	± 2.5	PASS
		VN	30	0.82	0.001148	± 2.5	PASS
		VN	40	0.17	0.000238	± 2.5	PASS

		VN	50	-1.43	-0.002001	± 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	-0.63	-0.000898	± 2.5	PASS
		VN	TN	2.07	0.002951	± 2.5	PASS
		VH	TN	4.54	0.006472	± 2.5	PASS
	MCH	VL	TN	3	0.004240	± 2.5	PASS
		VN	TN	4.97	0.007025	± 2.5	PASS
		VH	TN	4.52	0.006389	± 2.5	PASS
	HCH	VL	TN	-0.65	-0.000911	± 2.5	PASS
		VN	TN	3.72	0.005214	± 2.5	PASS
		VH	TN	2.61	0.003658	± 2.5	PASS
16QAM	LCH	VL	TN	-1.68	-0.002395	± 2.5	PASS
		VN	TN	2.17	0.003093	± 2.5	PASS
		VH	TN	1.14	0.001625	± 2.5	PASS
	MCH	VL	TN	3.55	0.005018	± 2.5	PASS
		VN	TN	1.07	0.001512	± 2.5	PASS
		VH	TN	2.49	0.003519	± 2.5	PASS
	HCH	VL	TN	2.32	0.003252	± 2.5	PASS
		VN	TN	-0.33	-0.000463	± 2.5	PASS
		VH	TN	0.79	0.001107	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.97	0.002808	± 2.5	PASS
		VN	-20	-1.75	-0.002495	± 2.5	PASS
		VN	-10	4.15	0.005916	± 2.5	PASS
		VN	0	2.8	0.003991	± 2.5	PASS
		VN	10	-0.58	-0.000827	± 2.5	PASS
		VN	20	2.97	0.004234	± 2.5	PASS
		VN	30	3.95	0.005631	± 2.5	PASS
		VN	40	3.51	0.005004	± 2.5	PASS
		VN	50	4.32	0.006158	± 2.5	PASS
	MCH	VN	-30	2.03	0.002869	± 2.5	PASS
		VN	-20	-0.45	-0.000636	± 2.5	PASS
		VN	-10	1.41	0.001993	± 2.5	PASS
		VN	0	4.12	0.005823	± 2.5	PASS

		VN	10	3.14	0.004438	± 2.5	PASS
		VN	20	0.88	0.001244	± 2.5	PASS
		VN	30	-1.38	-0.001951	± 2.5	PASS
		VN	40	2.19	0.003095	± 2.5	PASS
		VN	50	3.09	0.004367	± 2.5	PASS
	HCH	VN	-30	-1.21	-0.001696	± 2.5	PASS
		VN	-20	-1.24	-0.001738	± 2.5	PASS
		VN	-10	-0.67	-0.000939	± 2.5	PASS
		VN	0	-0.57	-0.000799	± 2.5	PASS
		VN	10	-0.16	-0.000224	± 2.5	PASS
		VN	20	1.05	0.001472	± 2.5	PASS
		VN	30	0.14	0.000196	± 2.5	PASS
		VN	40	2.36	0.003308	± 2.5	PASS
		VN	50	0.46	0.000645	± 2.5	PASS
16QAM	LCH	VN	-30	2.59	0.003692	± 2.5	PASS
		VN	-20	3.95	0.005631	± 2.5	PASS
		VN	-10	-0.43	-0.000613	± 2.5	PASS
		VN	0	0.41	0.000584	± 2.5	PASS
		VN	10	2.6	0.003706	± 2.5	PASS
		VN	20	-0.63	-0.000898	± 2.5	PASS
		VN	30	-1.48	-0.002110	± 2.5	PASS
		VN	40	4.97	0.007085	± 2.5	PASS
		VN	50	2.19	0.003122	± 2.5	PASS
	MCH	VN	-30	-1.63	-0.002304	± 2.5	PASS
		VN	-20	1.4	0.001979	± 2.5	PASS
		VN	-10	2.01	0.002841	± 2.5	PASS
		VN	0	4.64	0.006558	± 2.5	PASS
		VN	10	-1.21	-0.001710	± 2.5	PASS
		VN	20	2.34	0.003307	± 2.5	PASS
		VN	30	3.83	0.005413	± 2.5	PASS
		VN	40	-1.68	-0.002375	± 2.5	PASS
		VN	50	4.59	0.006488	± 2.5	PASS
	HCH	VN	-30	3.74	0.005242	± 2.5	PASS
		VN	-20	2.4	0.003364	± 2.5	PASS
		VN	-10	1.97	0.002761	± 2.5	PASS
		VN	0	-1.72	-0.002411	± 2.5	PASS
		VN	10	3.52	0.004933	± 2.5	PASS
		VN	20	4.54	0.006363	± 2.5	PASS
		VN	30	1.99	0.002789	± 2.5	PASS
		VN	40	0.18	0.000252	± 2.5	PASS
		VN	50	2.96	0.004149	± 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	4.72	0.006705	± 2.5	PASS
		VN	TN	-0.45	-0.000639	± 2.5	PASS
		VH	TN	-0.57	-0.000810	± 2.5	PASS
	MCH	VL	TN	-0.49	-0.000693	± 2.5	PASS
		VN	TN	0.58	0.000820	± 2.5	PASS
		VH	TN	2.3	0.003251	± 2.5	PASS
	HCH	VL	TN	3.23	0.004543	± 2.5	PASS
		VN	TN	3.68	0.005176	± 2.5	PASS
		VH	TN	-1.75	-0.002461	± 2.5	PASS
16QAM	LCH	VL	TN	1.27	0.001804	± 2.5	PASS
		VN	TN	0.83	0.001179	± 2.5	PASS
		VH	TN	0.92	0.001307	± 2.5	PASS
	MCH	VL	TN	4.25	0.006007	± 2.5	PASS
		VN	TN	-0.15	-0.000212	± 2.5	PASS
		VH	TN	3.1	0.004382	± 2.5	PASS
	HCH	VL	TN	4.88	0.006864	± 2.5	PASS
		VN	TN	4.44	0.006245	± 2.5	PASS
		VH	TN	2.27	0.003193	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.01	-0.000014	± 2.5	PASS
		VN	-20	0.02	0.000028	± 2.5	PASS
		VN	-10	0.32	0.000455	± 2.5	PASS
		VN	0	4.88	0.006932	± 2.5	PASS
		VN	10	0.97	0.001378	± 2.5	PASS
		VN	20	3.71	0.005270	± 2.5	PASS
		VN	30	2.77	0.003935	± 2.5	PASS
		VN	40	3.71	0.005270	± 2.5	PASS
		VN	50	2.99	0.004247	± 2.5	PASS
	MCH	VN	-30	4.38	0.006191	± 2.5	PASS
		VN	-20	-0.6	-0.000848	± 2.5	PASS
		VN	-10	-1.21	-0.001710	± 2.5	PASS
		VN	0	0.09	0.000127	± 2.5	PASS
		VN	10	4.09	0.005781	± 2.5	PASS
		VN	20	3.71	0.005270	± 2.5	PASS

		VN	20	1.59	0.002247	± 2.5	PASS
		VN	30	-0.04	-0.000057	± 2.5	PASS
		VN	40	0.83	0.001173	± 2.5	PASS
		VN	50	1.8	0.002544	± 2.5	PASS
	HCH	VN	-30	4.01	0.005640	± 2.5	PASS
		VN	-20	0.71	0.000999	± 2.5	PASS
		VN	-10	2.8	0.003938	± 2.5	PASS
		VN	0	-1.3	-0.001828	± 2.5	PASS
		VN	10	2.98	0.004191	± 2.5	PASS
		VN	20	4.96	0.006976	± 2.5	PASS
		VN	30	0.27	0.000380	± 2.5	PASS
		VN	40	0.94	0.001322	± 2.5	PASS
		VN	50	2.94	0.004135	± 2.5	PASS
		VN	-30	2.03	0.002884	± 2.5	PASS
		VN	-20	1.4	0.001989	± 2.5	PASS
		VN	-10	1.24	0.001761	± 2.5	PASS
		VN	0	-0.48	-0.000682	± 2.5	PASS
		VN	10	2.1	0.002983	± 2.5	PASS
QPSK	LCH	VN	20	-1.36	-0.001932	± 2.5	PASS
		VN	30	2.49	0.003537	± 2.5	PASS
		VN	40	-1.95	-0.002770	± 2.5	PASS
		VN	50	4.03	0.005724	± 2.5	PASS
	MCH	VN	-30	3.44	0.004862	± 2.5	PASS
		VN	-20	-0.93	-0.001314	± 2.5	PASS
		VN	-10	0.83	0.001173	± 2.5	PASS
		VN	0	1.09	0.001541	± 2.5	PASS
		VN	10	-1.05	-0.001484	± 2.5	PASS
		VN	20	2.74	0.003873	± 2.5	PASS
		VN	30	2.52	0.003562	± 2.5	PASS
		VN	40	4.46	0.006304	± 2.5	PASS
		VN	50	-1.57	-0.002219	± 2.5	PASS
	HCH	VN	-30	2.85	0.004008	± 2.5	PASS
		VN	-20	4.76	0.006695	± 2.5	PASS
		VN	-10	1.99	0.002799	± 2.5	PASS
		VN	0	1.54	0.002166	± 2.5	PASS
		VN	10	2.27	0.003193	± 2.5	PASS
		VN	20	0.45	0.000633	± 2.5	PASS
		VN	30	0.62	0.000872	± 2.5	PASS
		VN	40	4.09	0.005752	± 2.5	PASS
		VN	50	1.72	0.002419	± 2.5	PASS