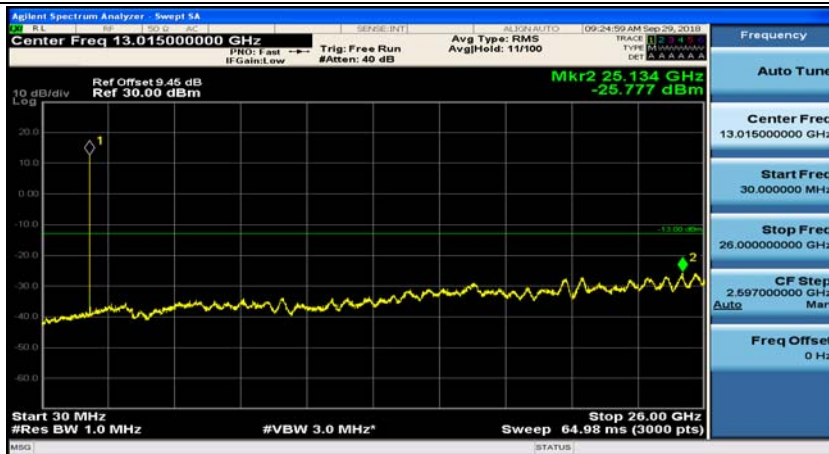
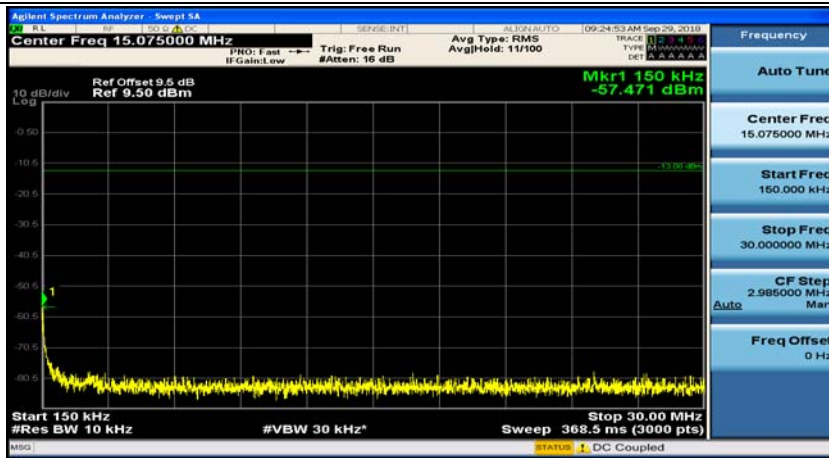
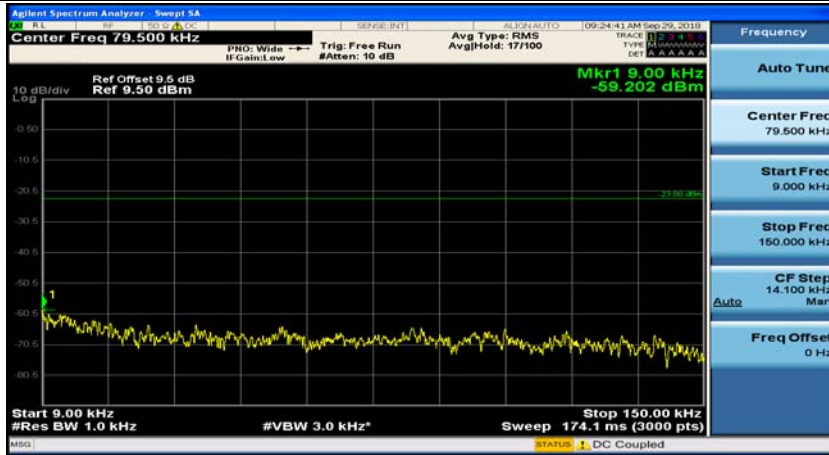
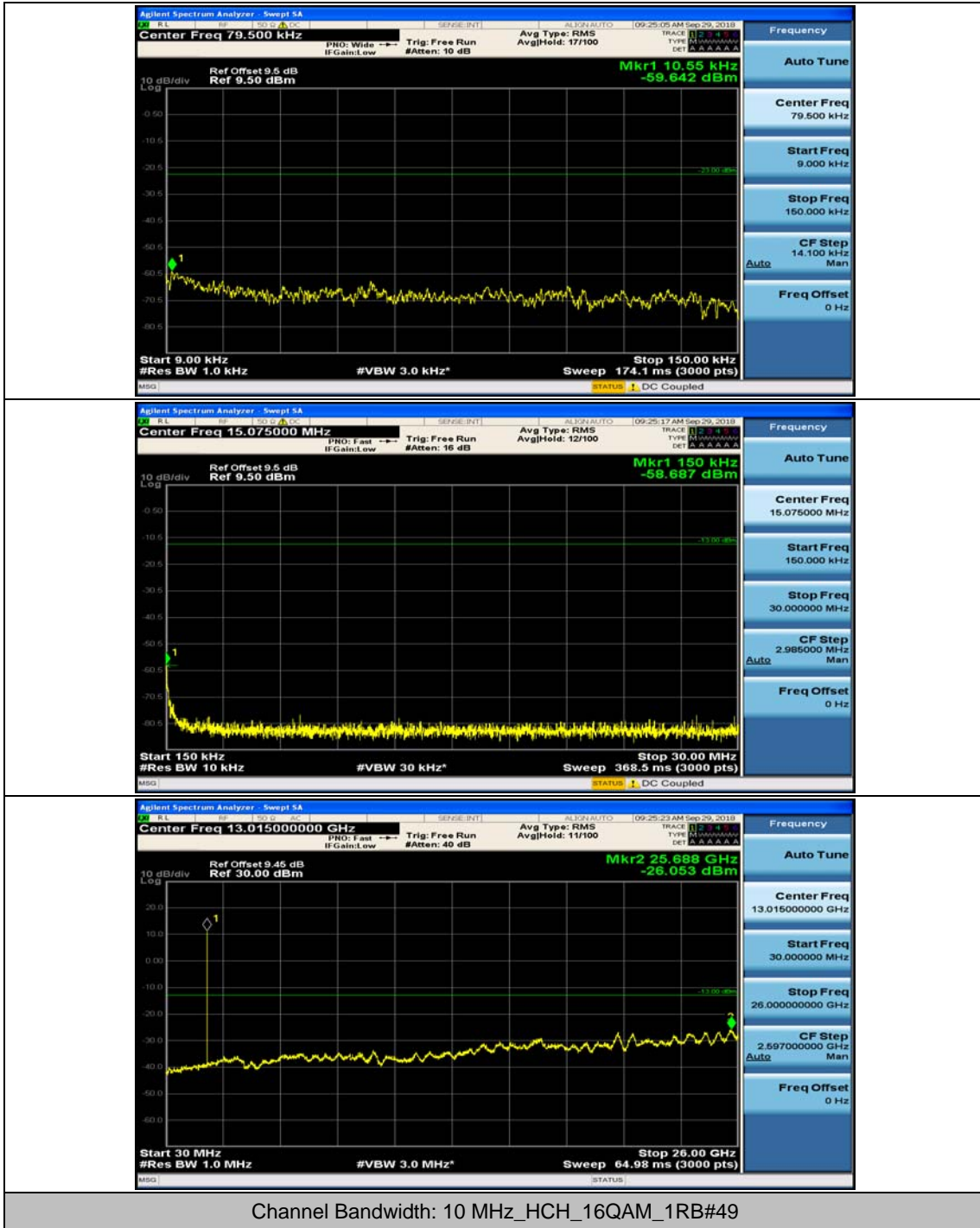
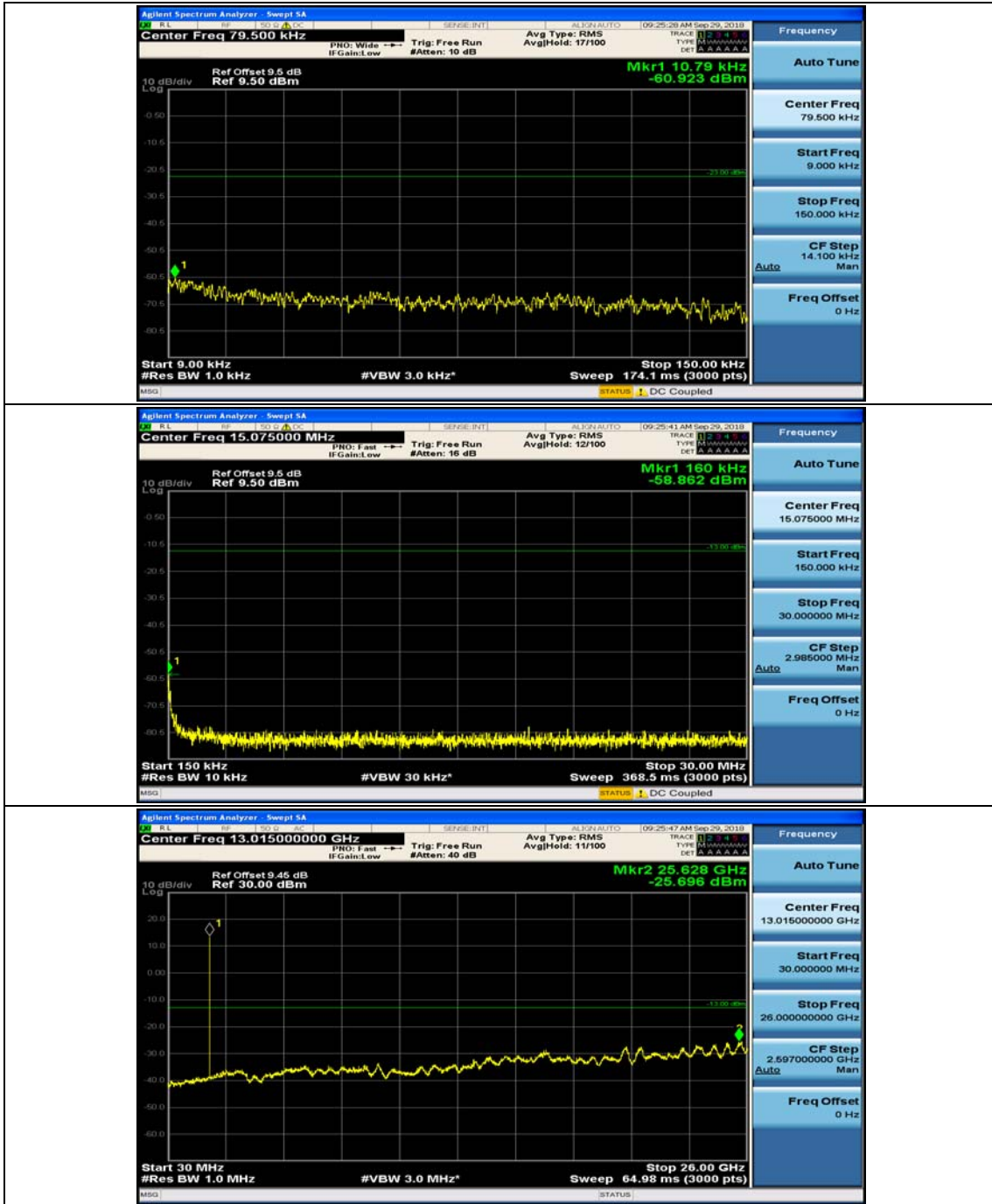


Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0

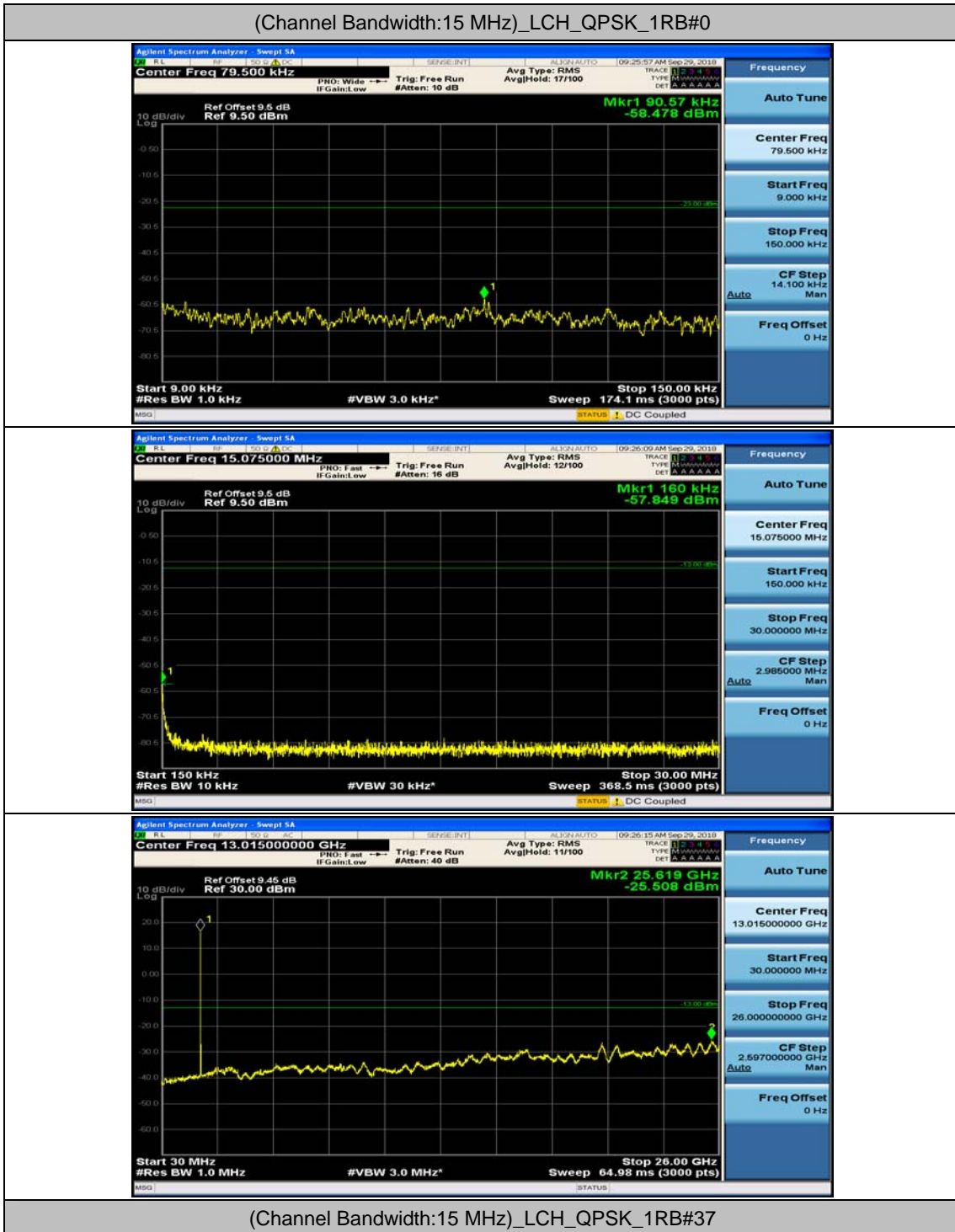


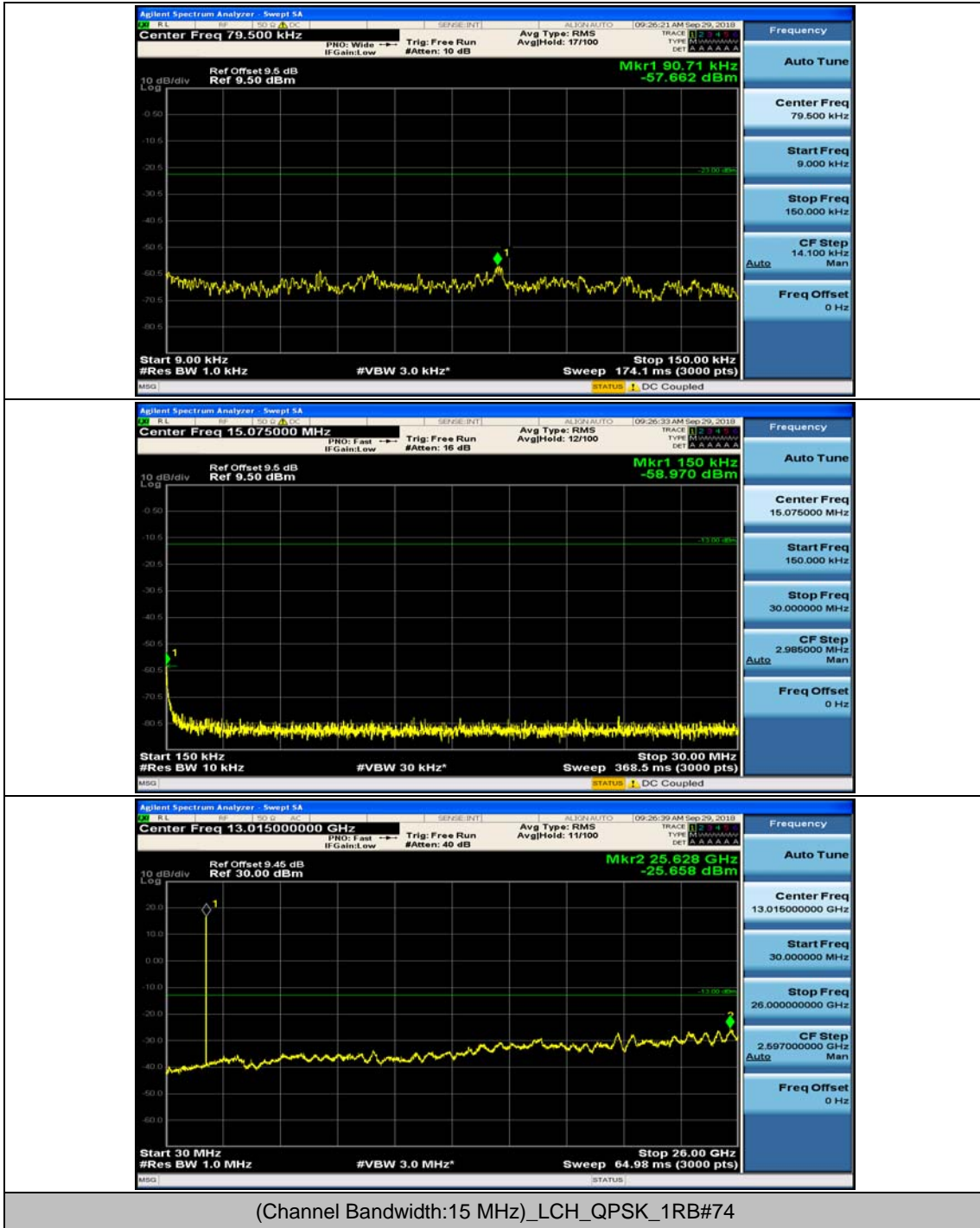
Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#24

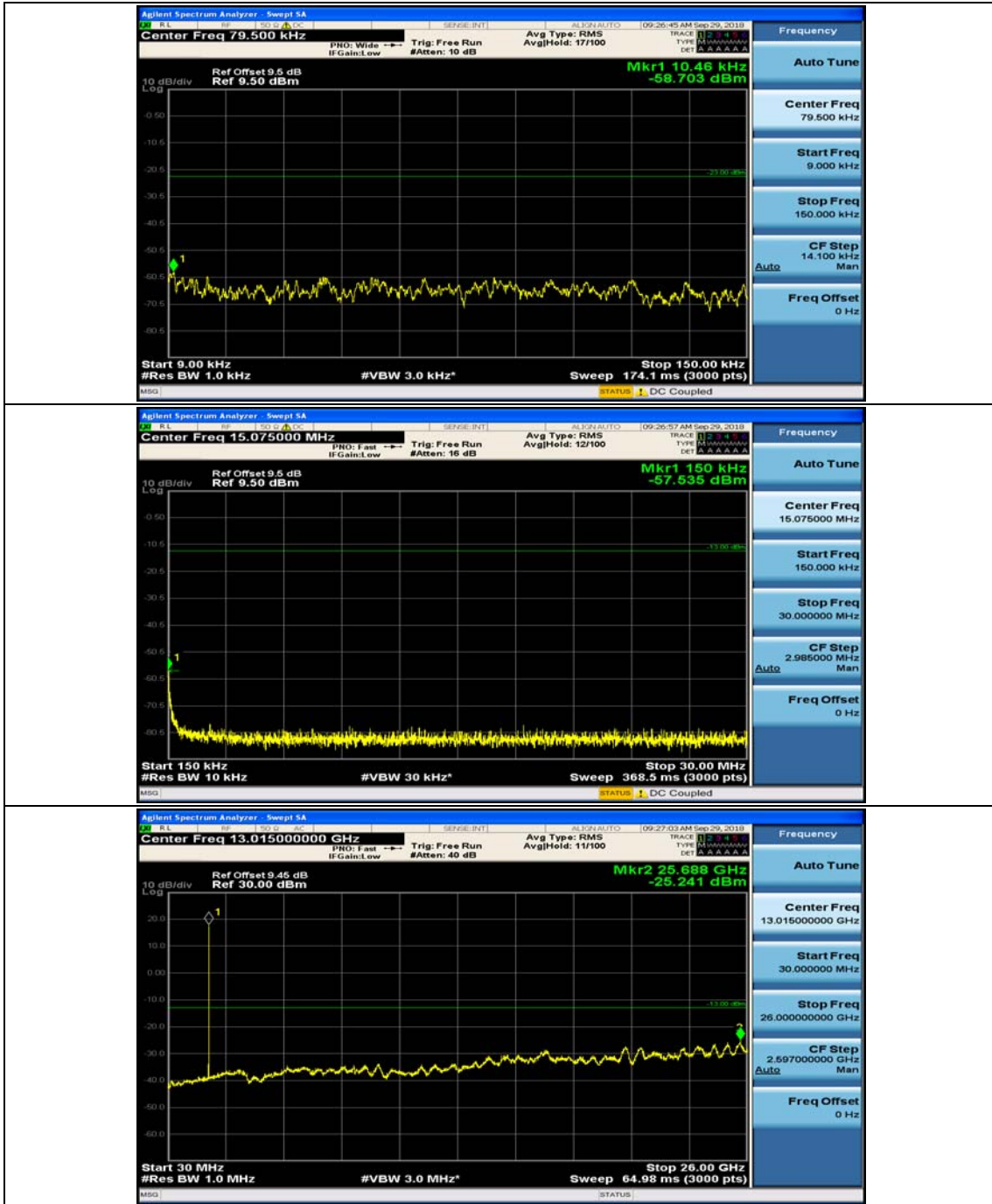




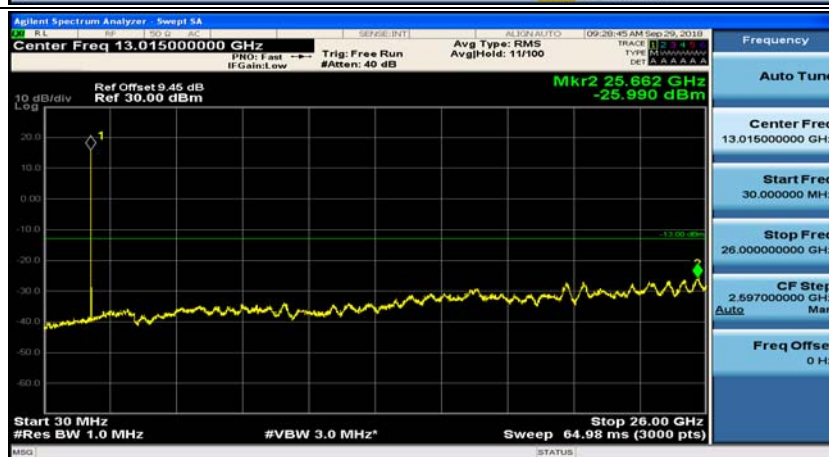
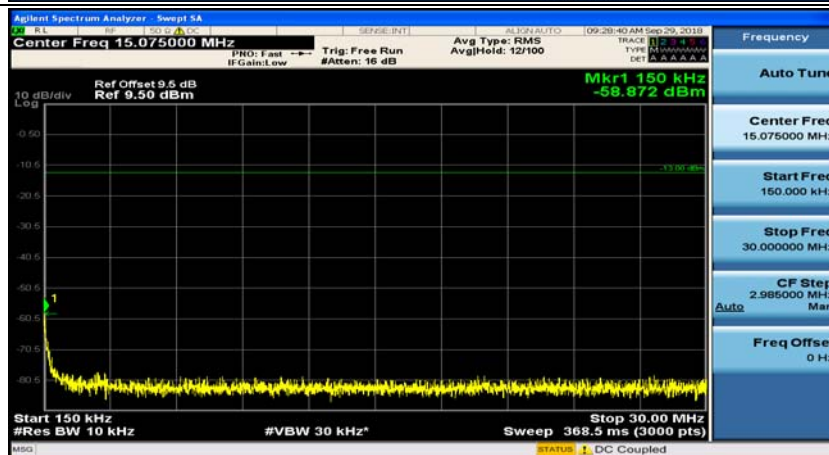
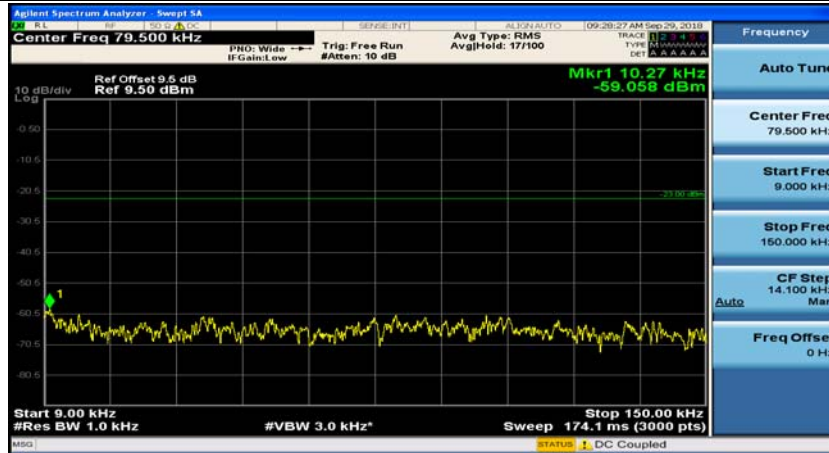
Channel Bandwidth: 15 MHz



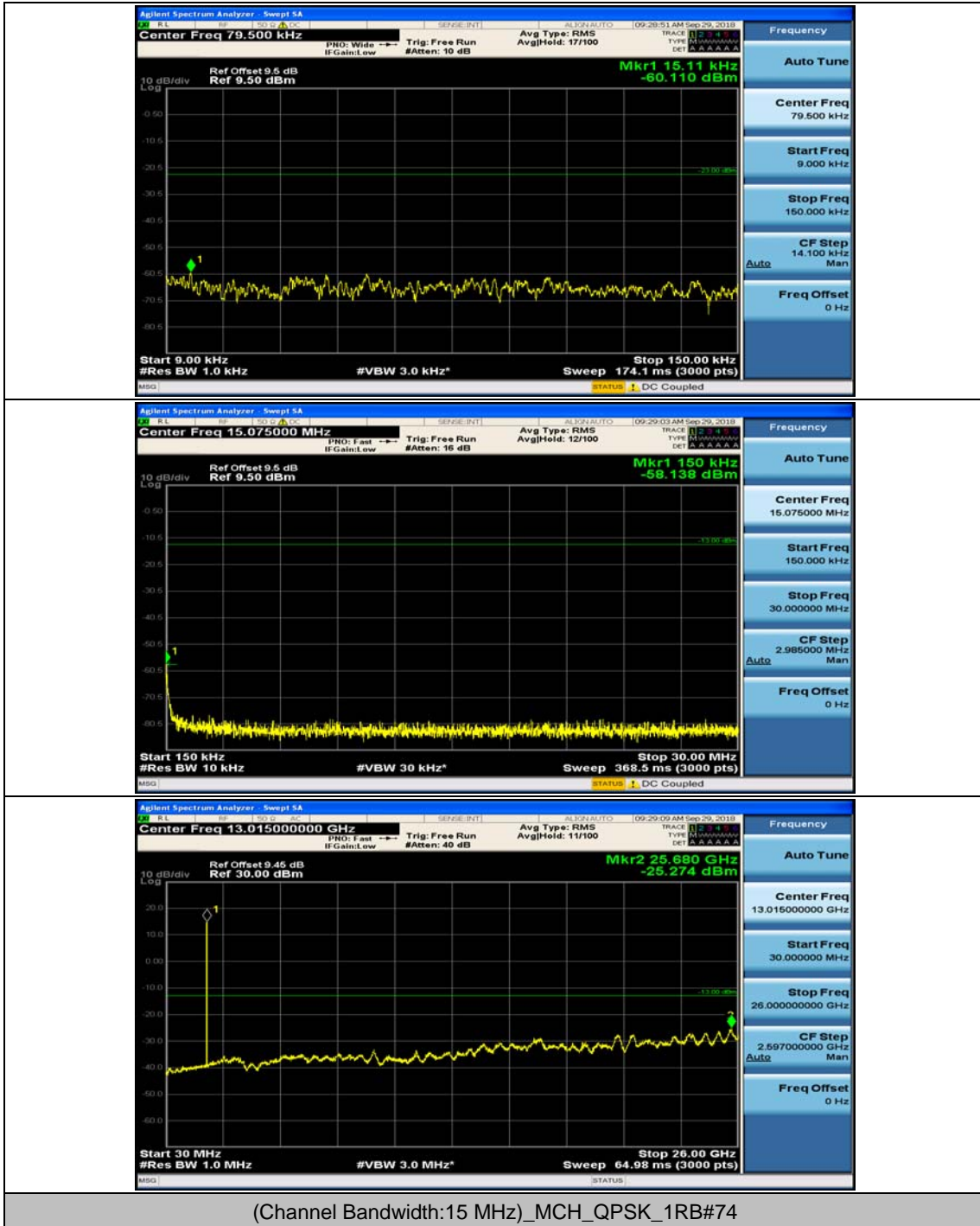


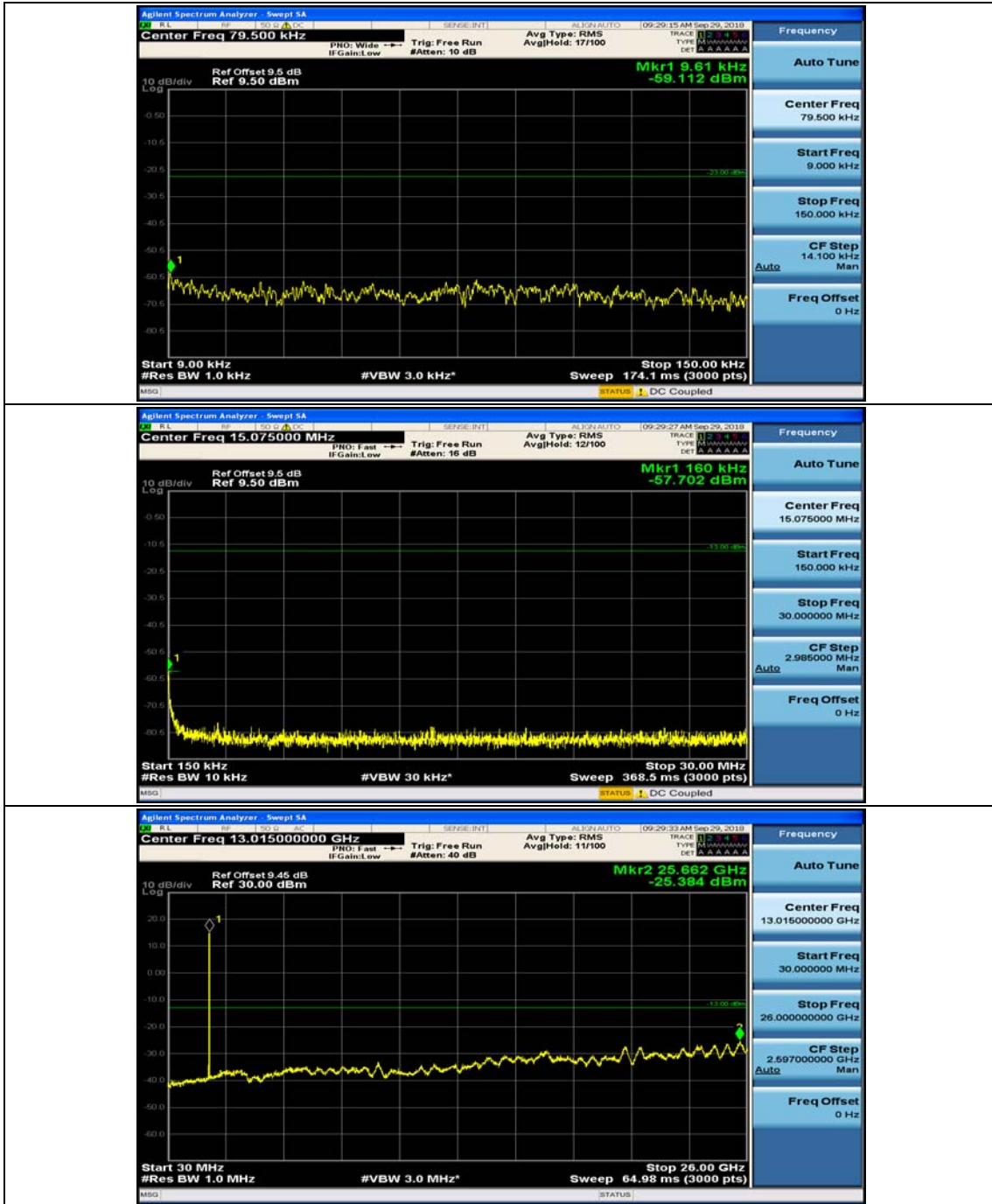


(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#0

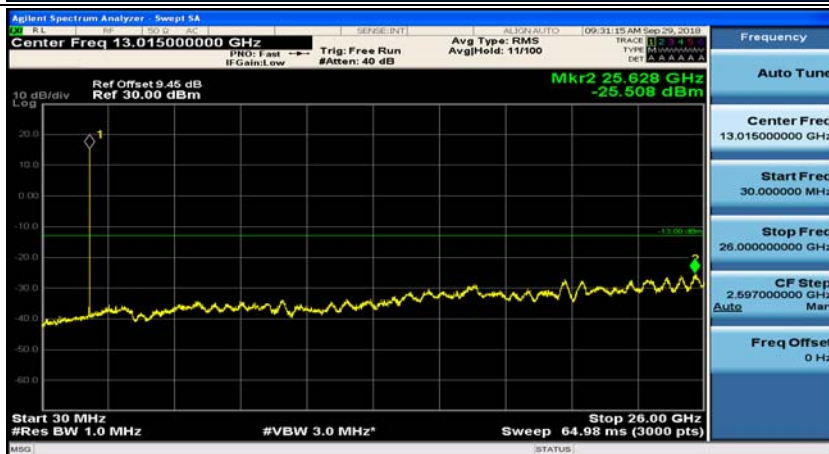
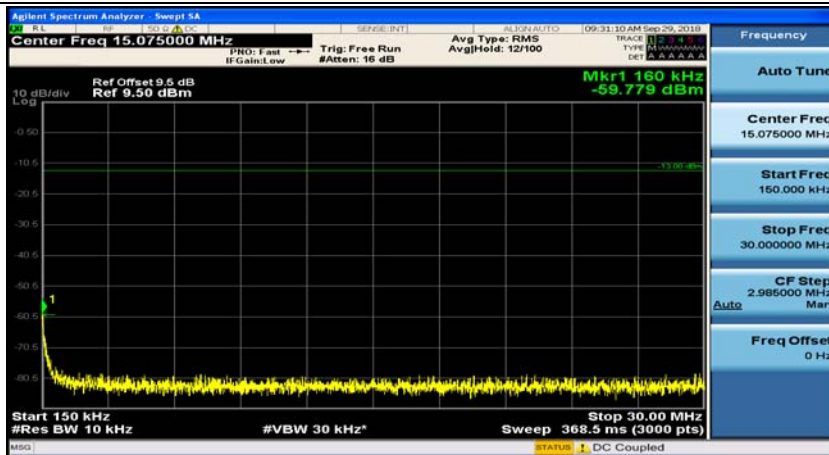
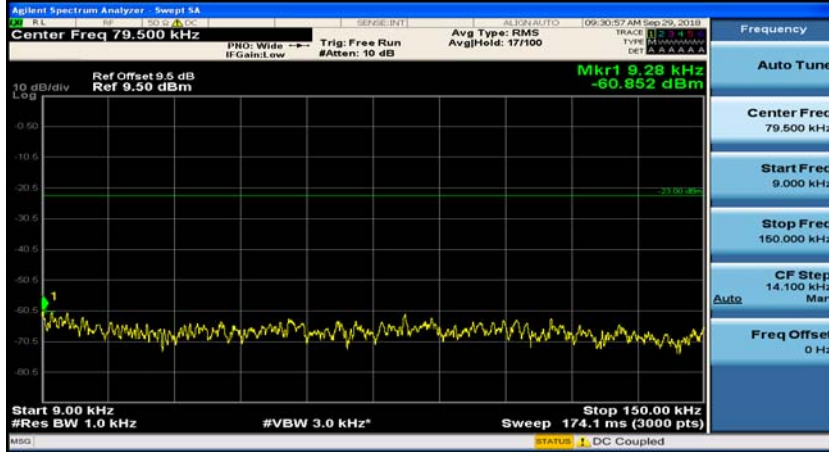


(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#37

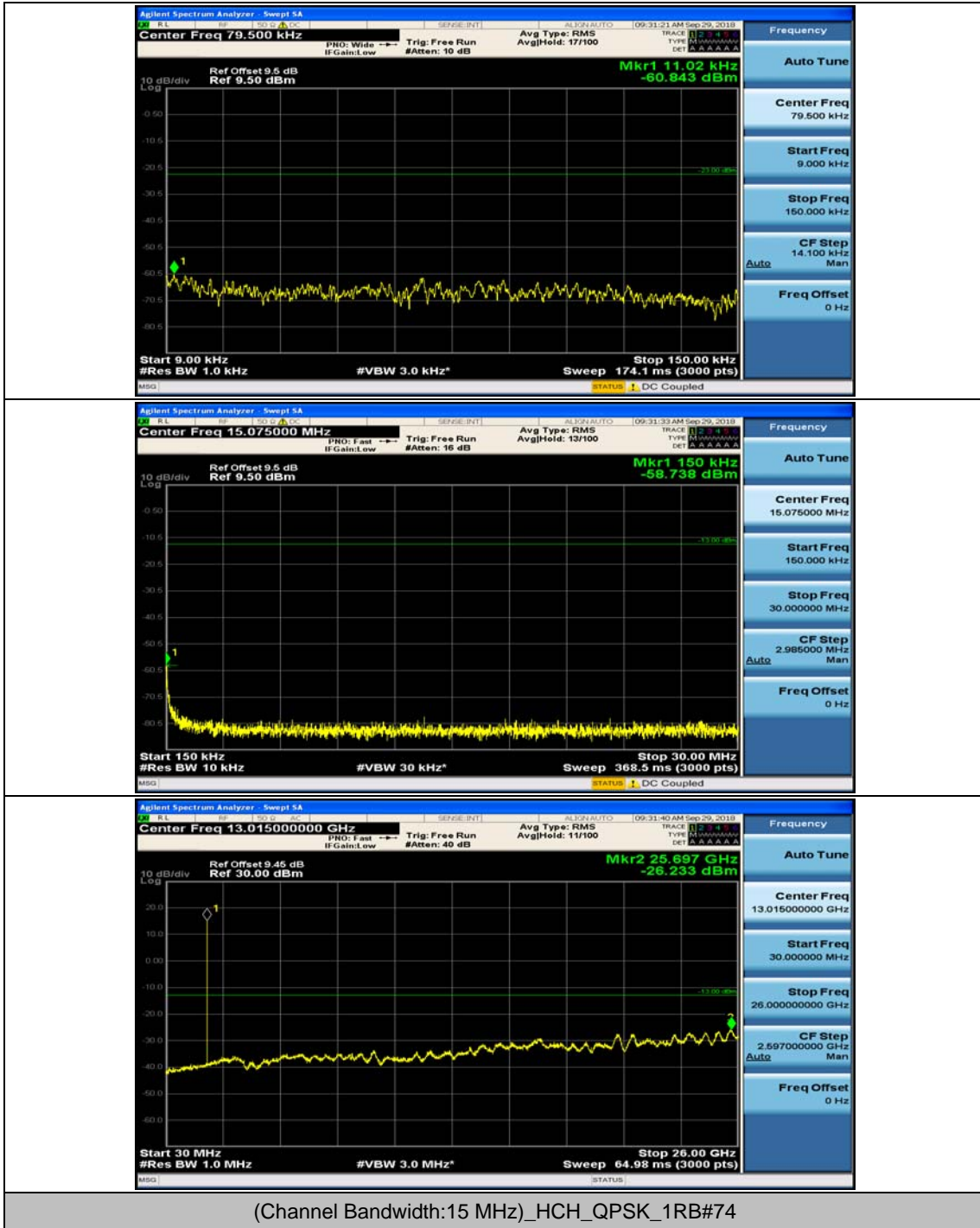


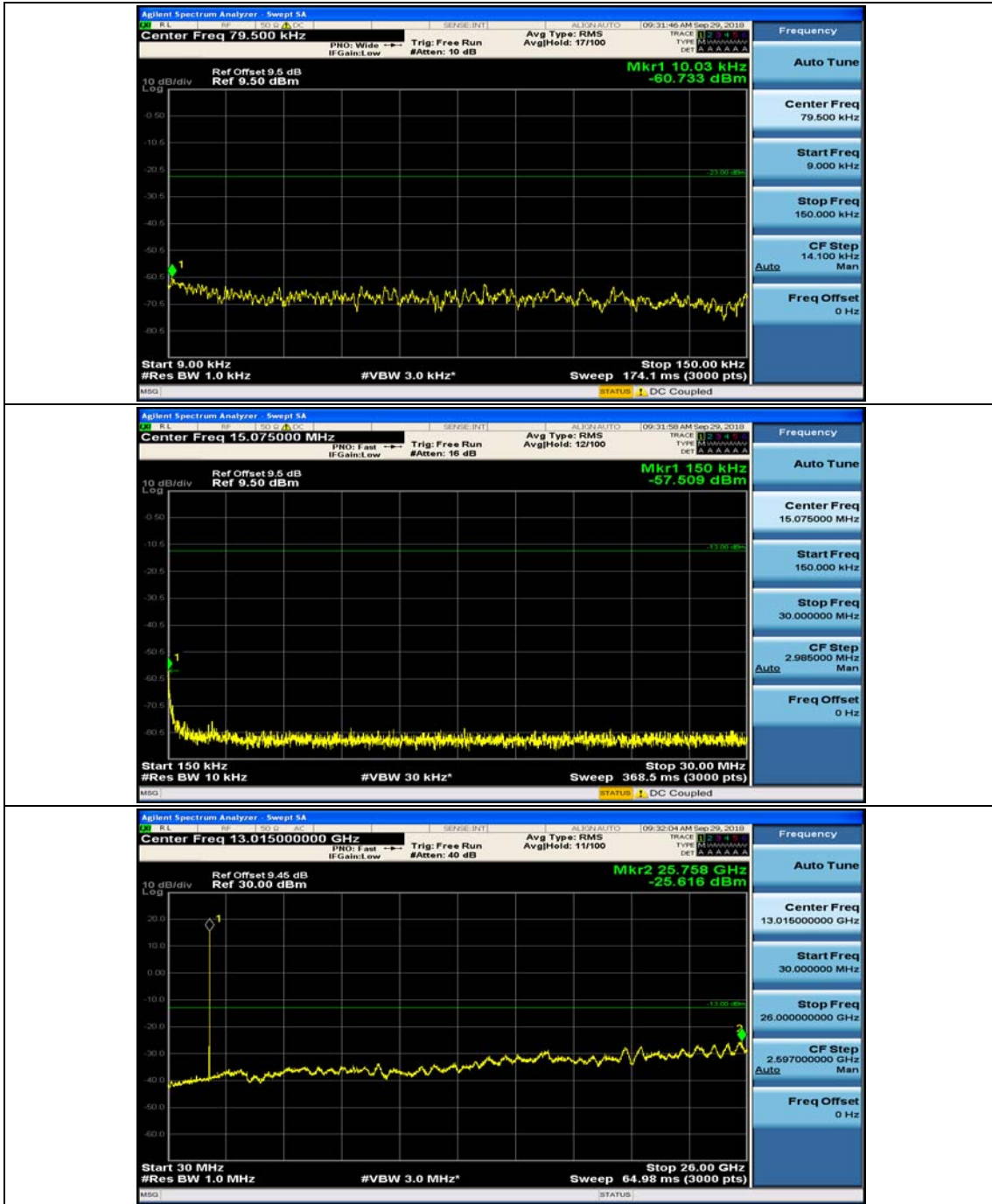


(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#0

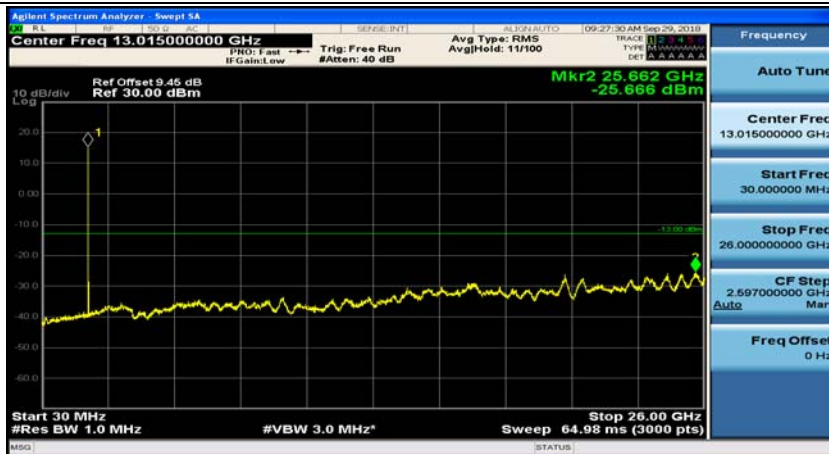
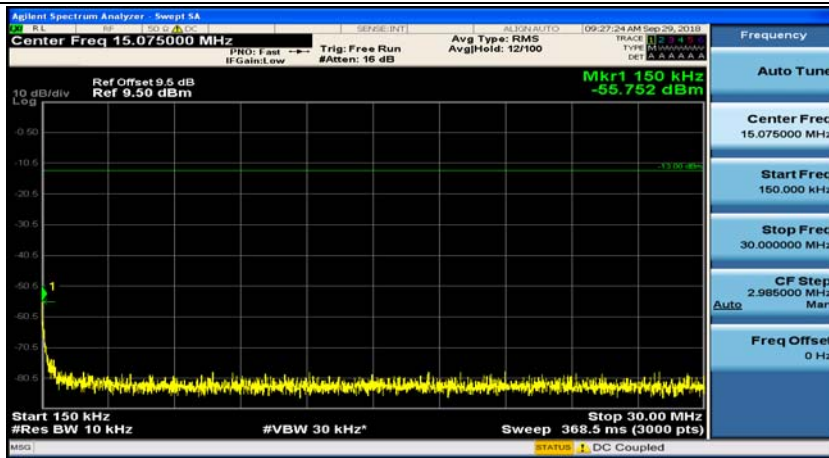
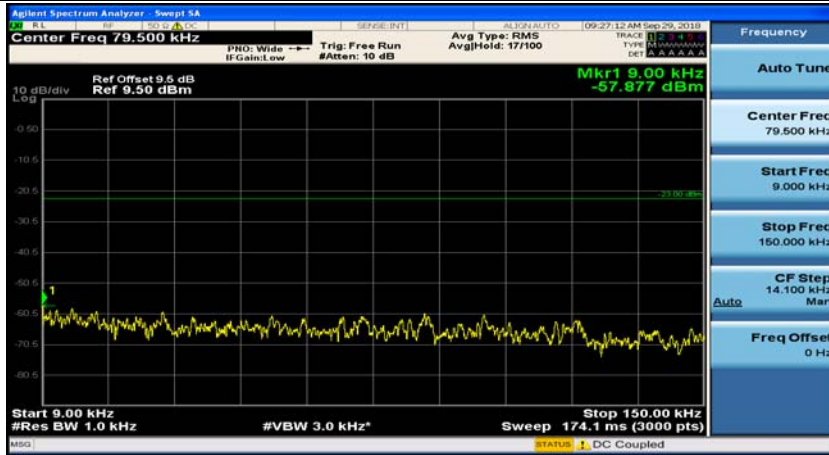


(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#37

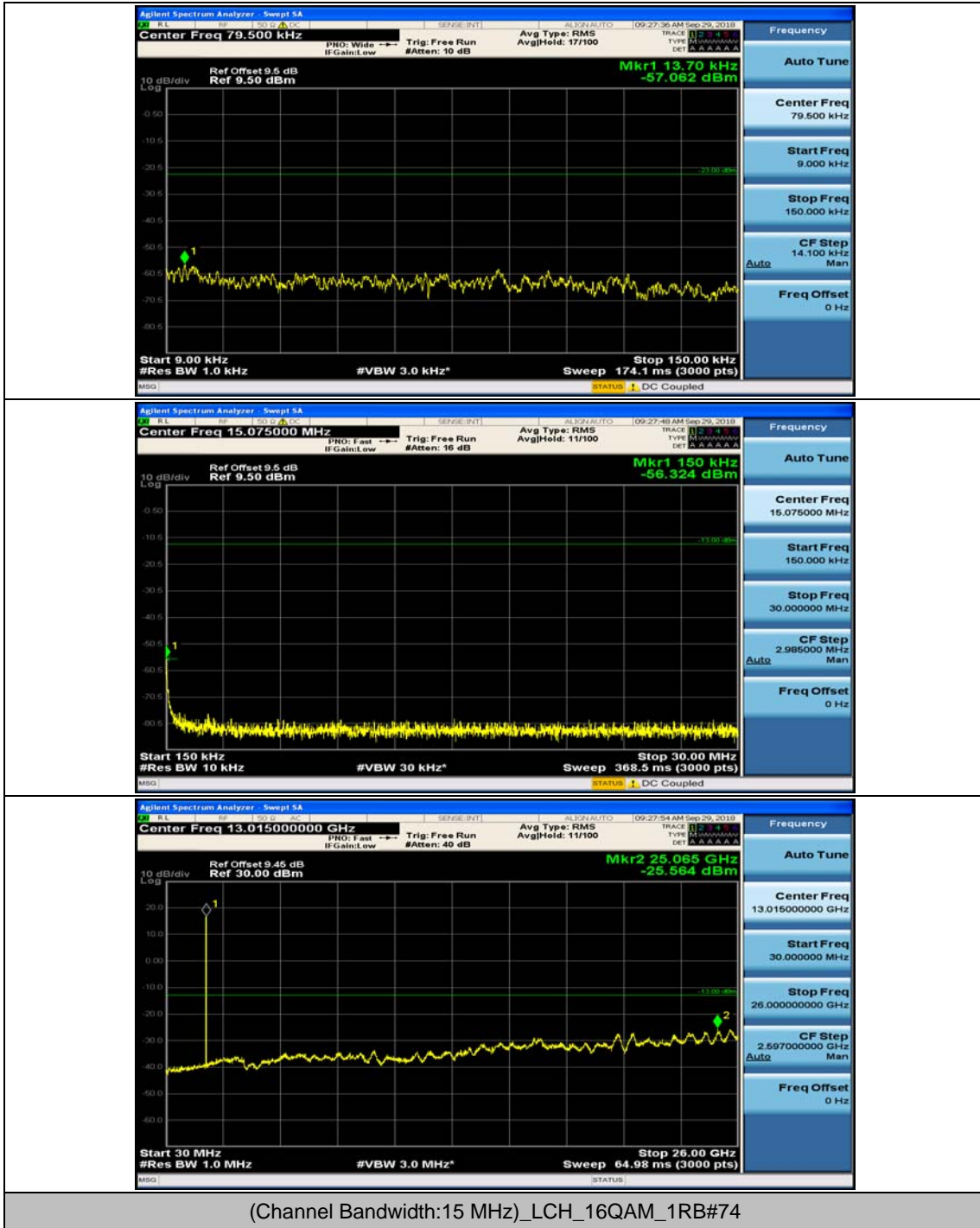


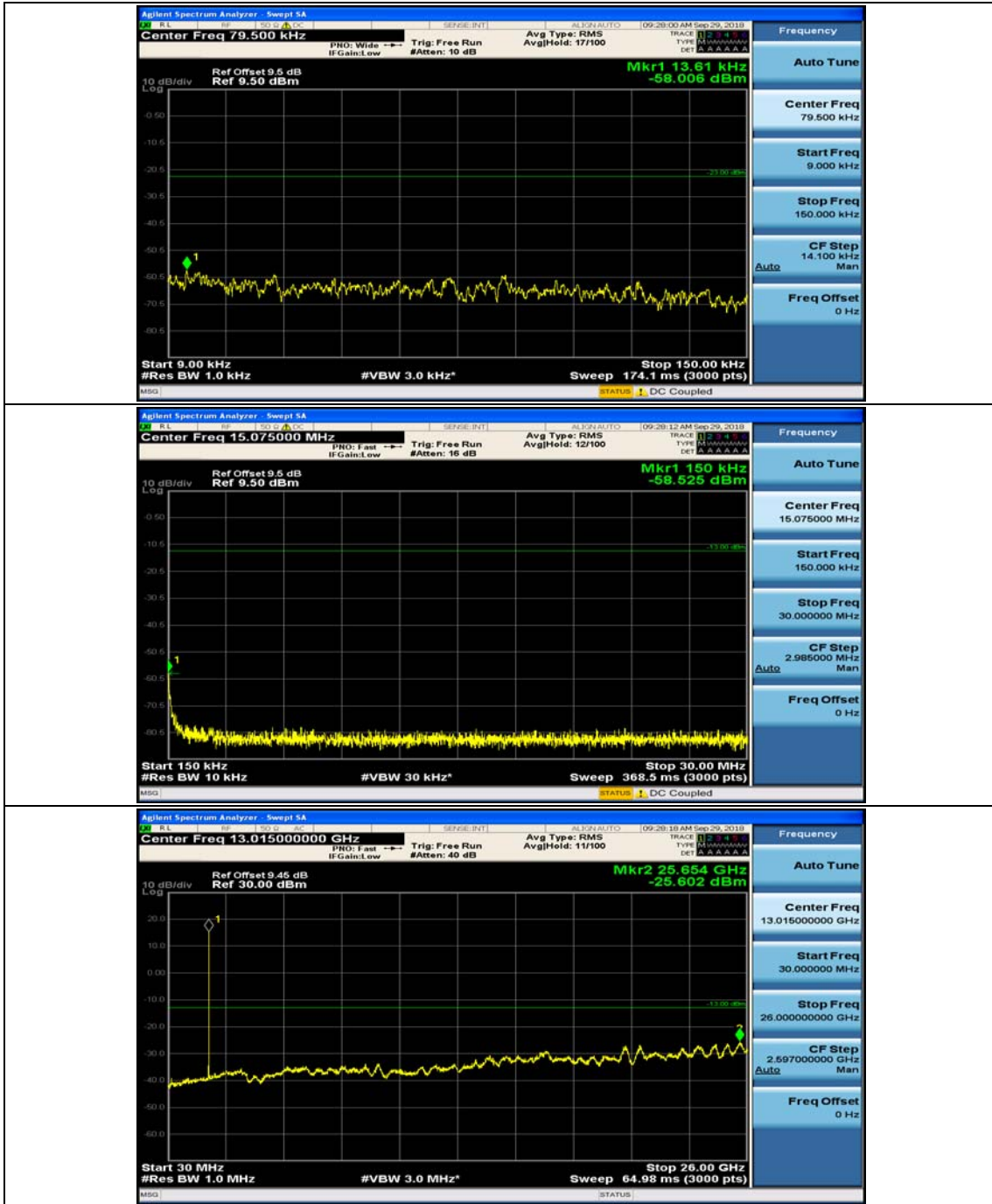


(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#0

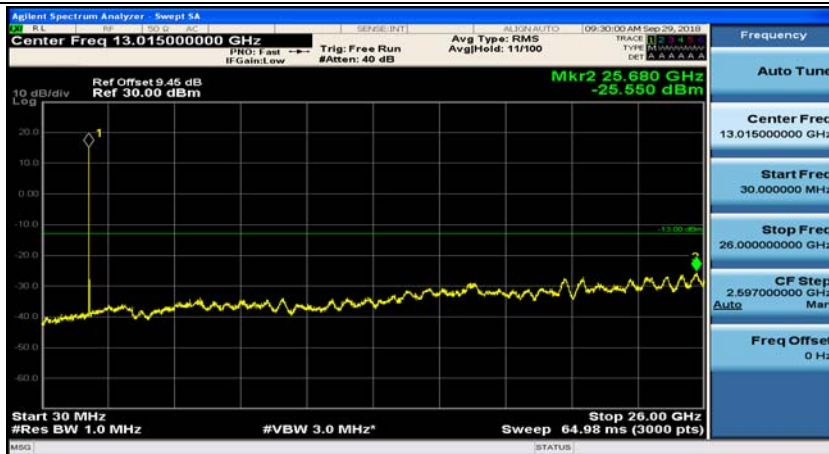
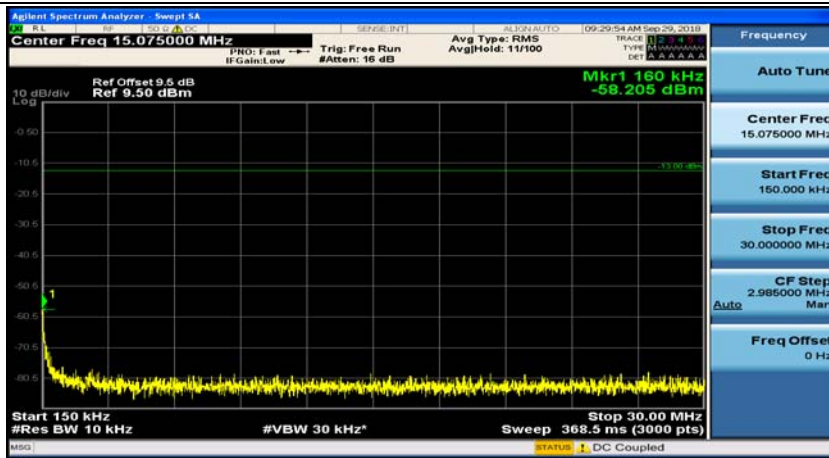
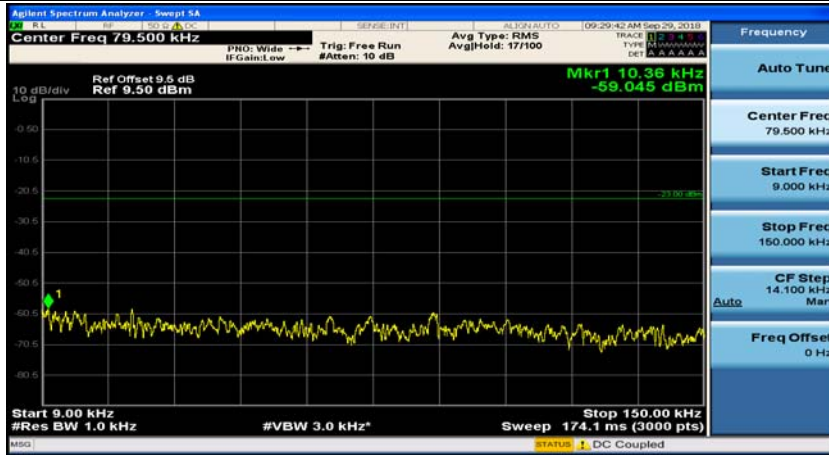


(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#37

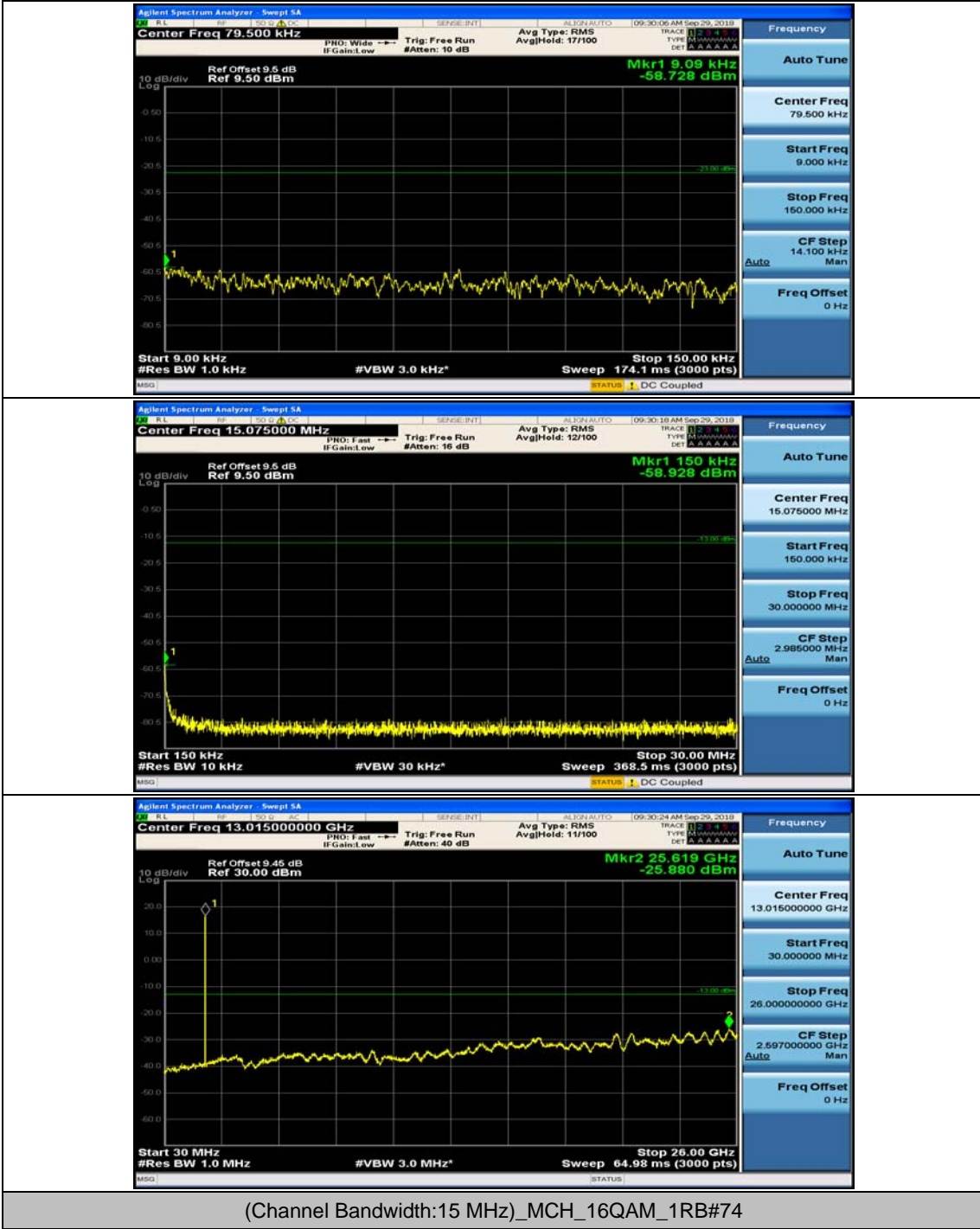


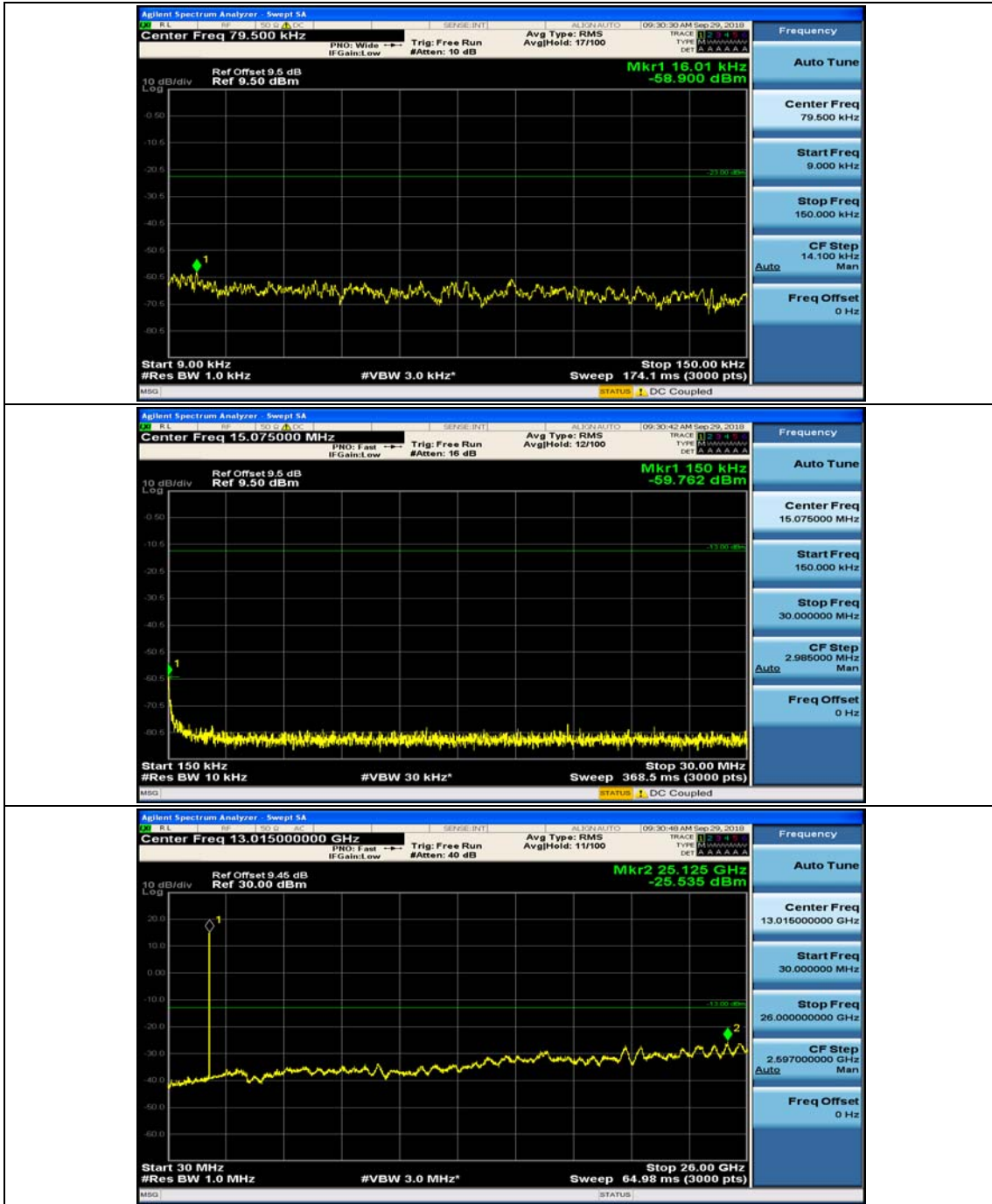


(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#0

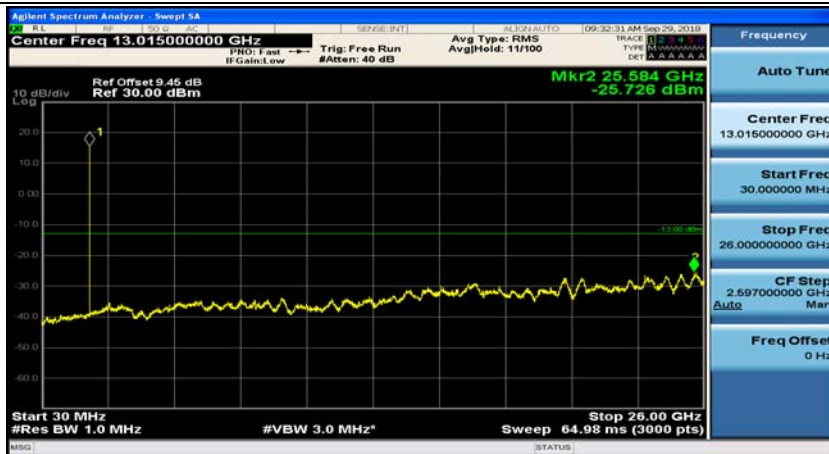
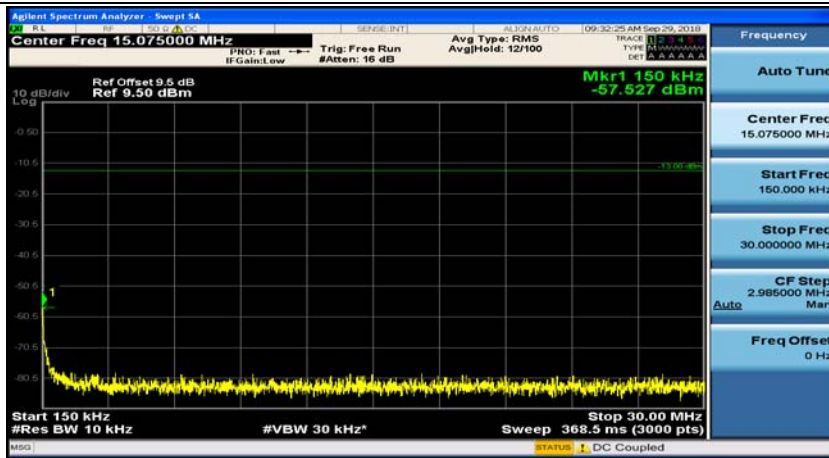
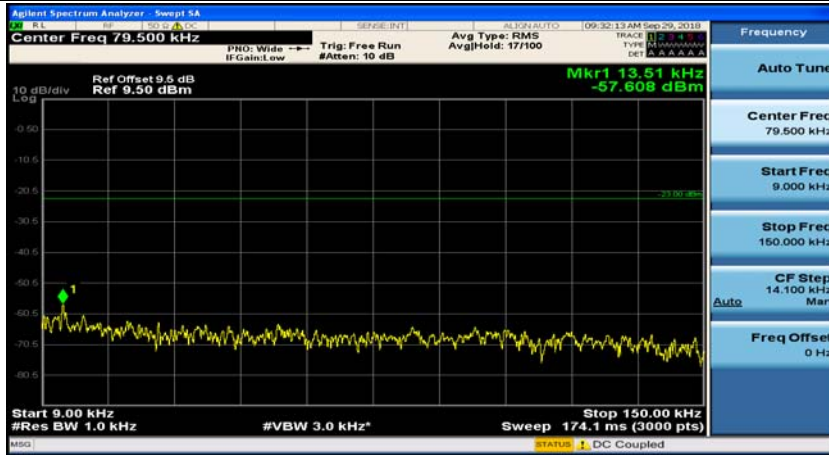


(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#37

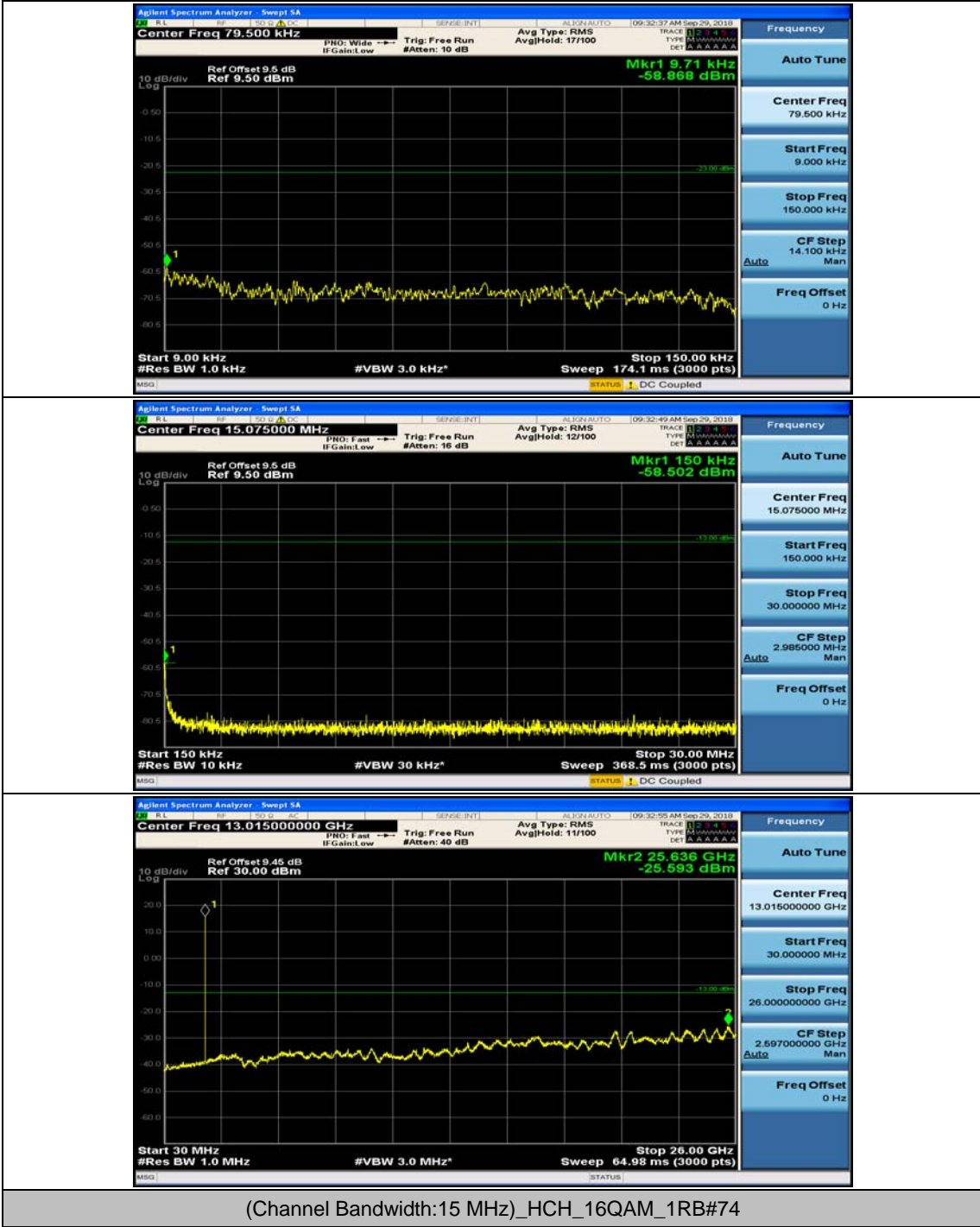


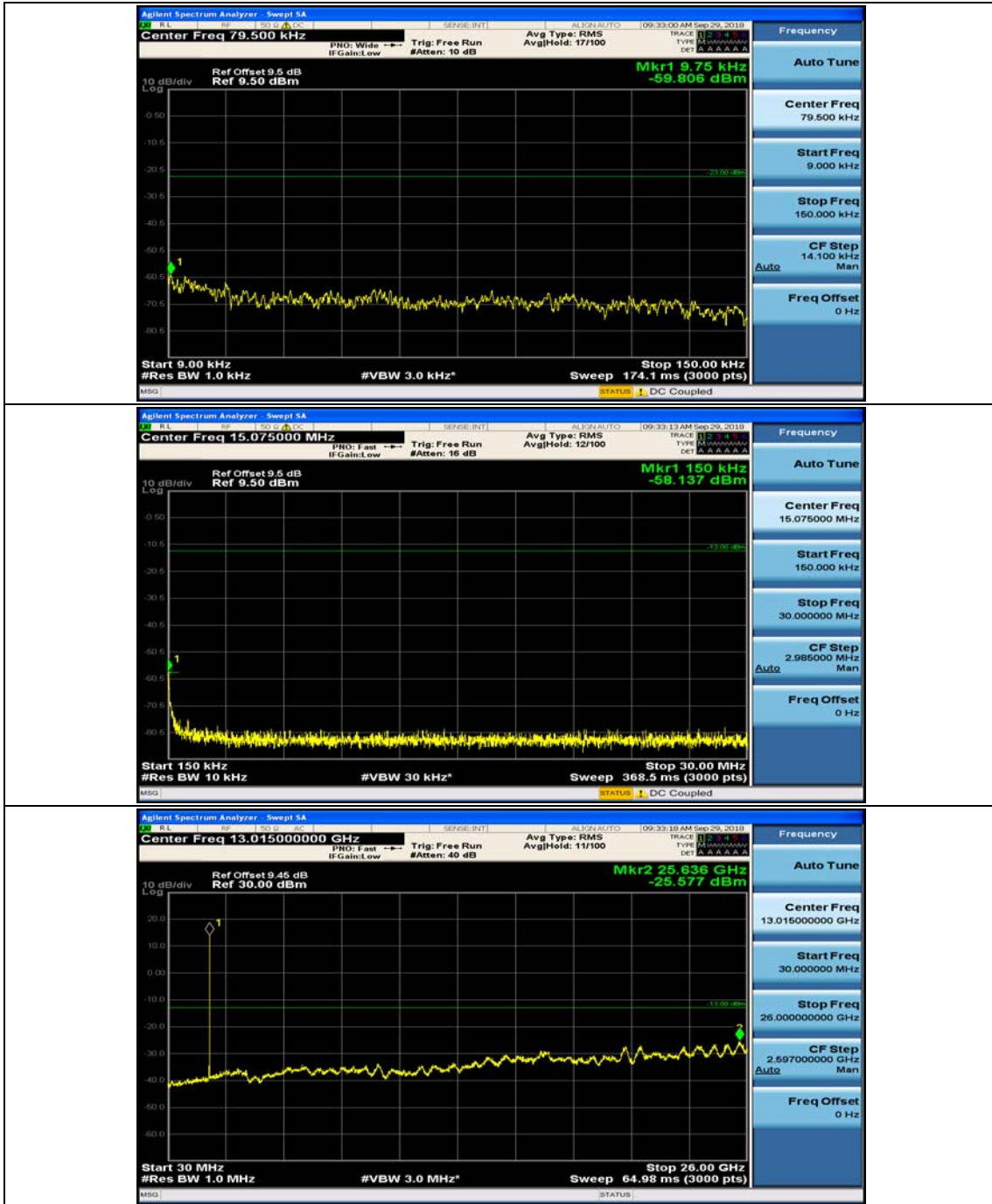


(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#0

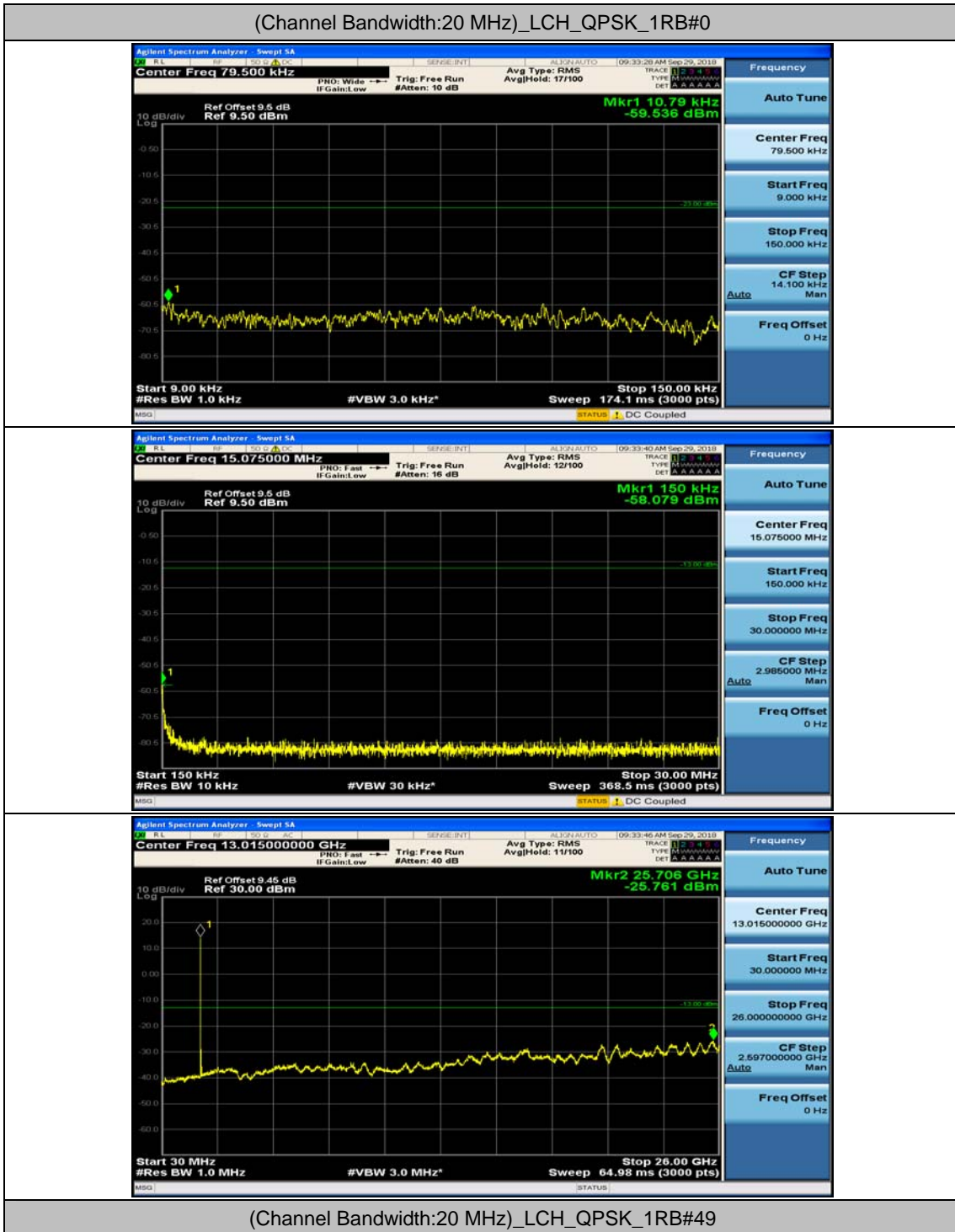


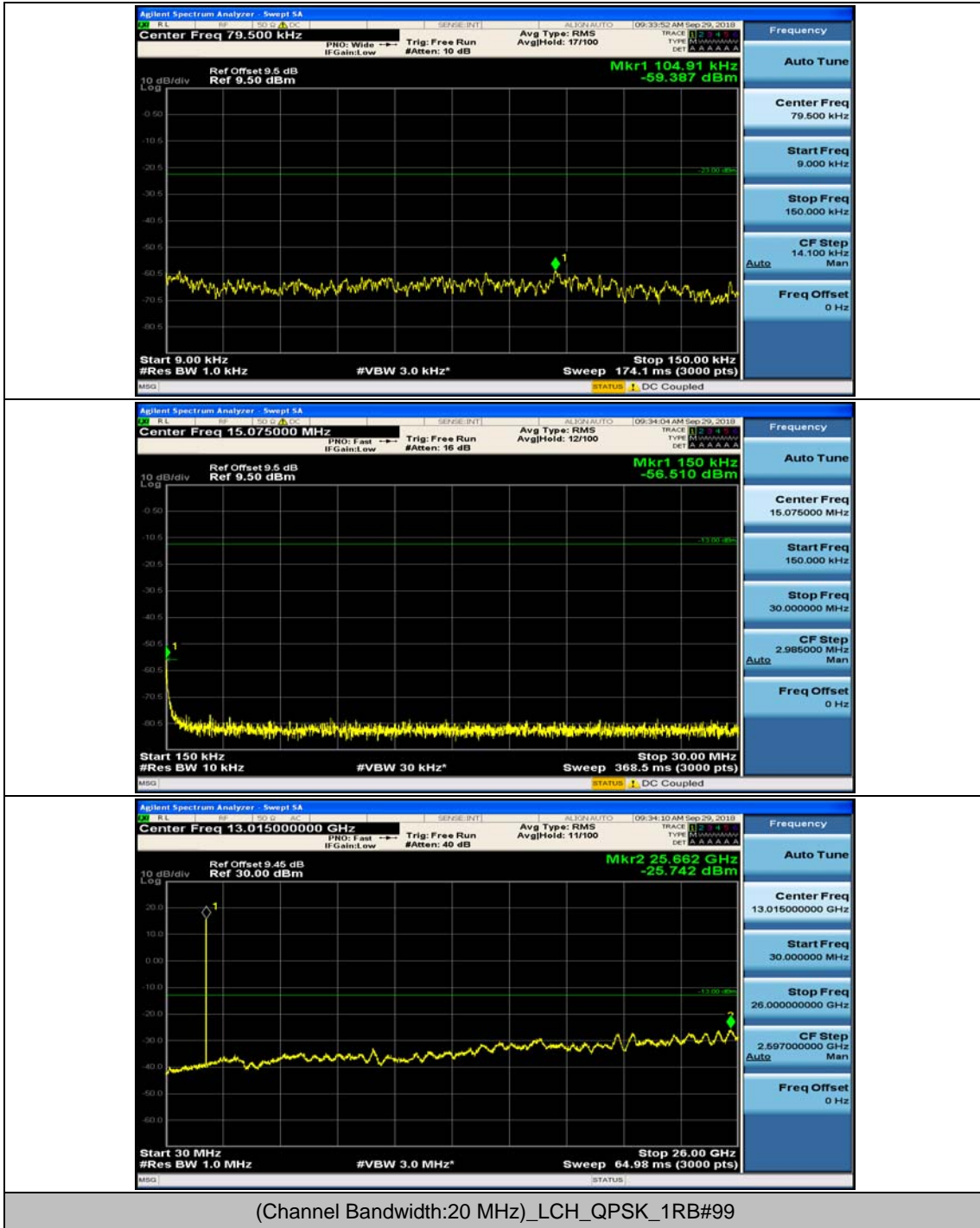
(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#37

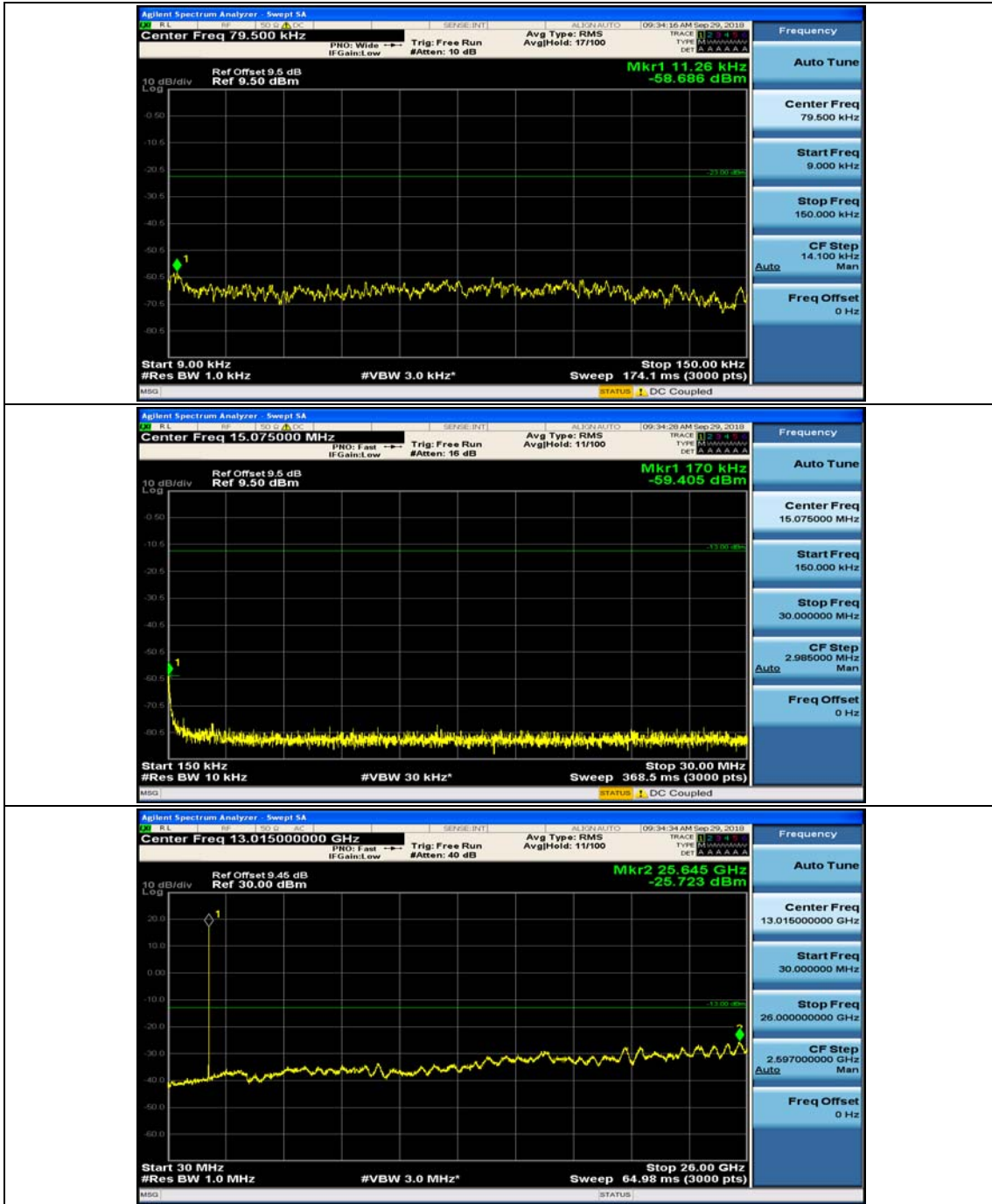




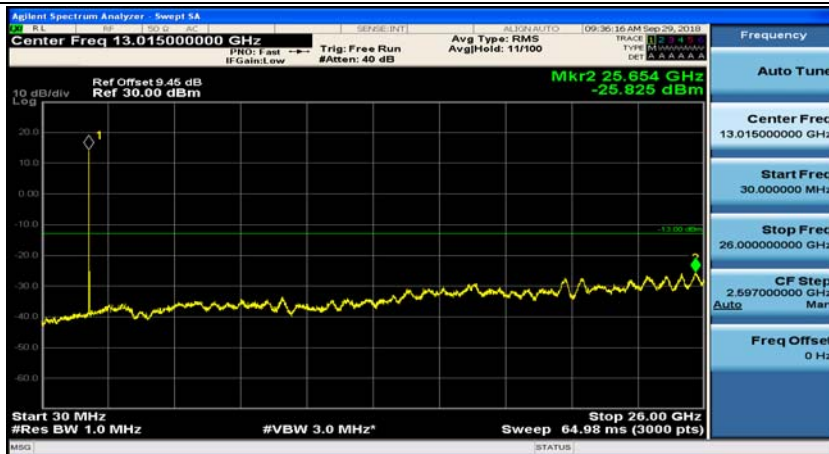
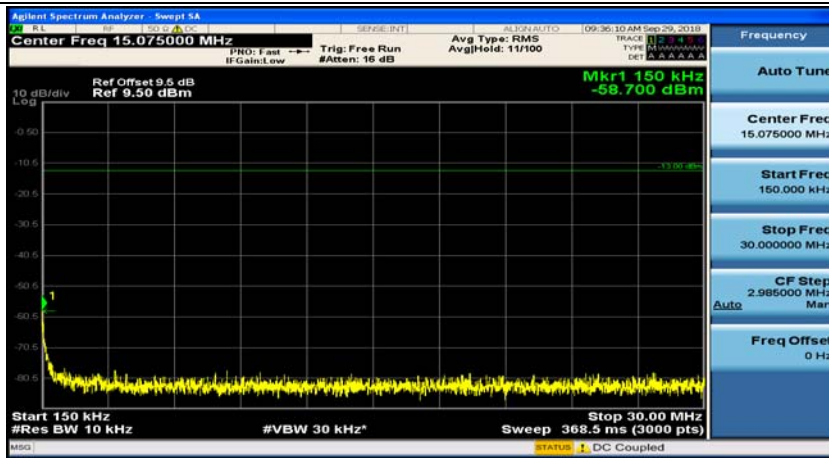
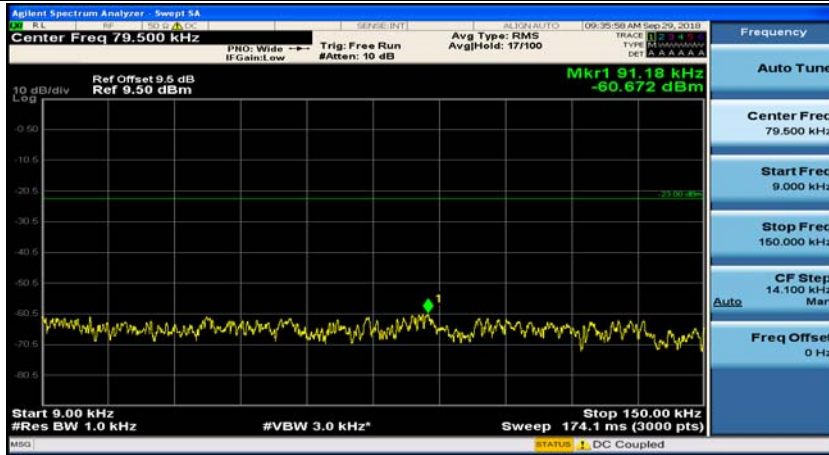
Channel Bandwidth: 20 MHz



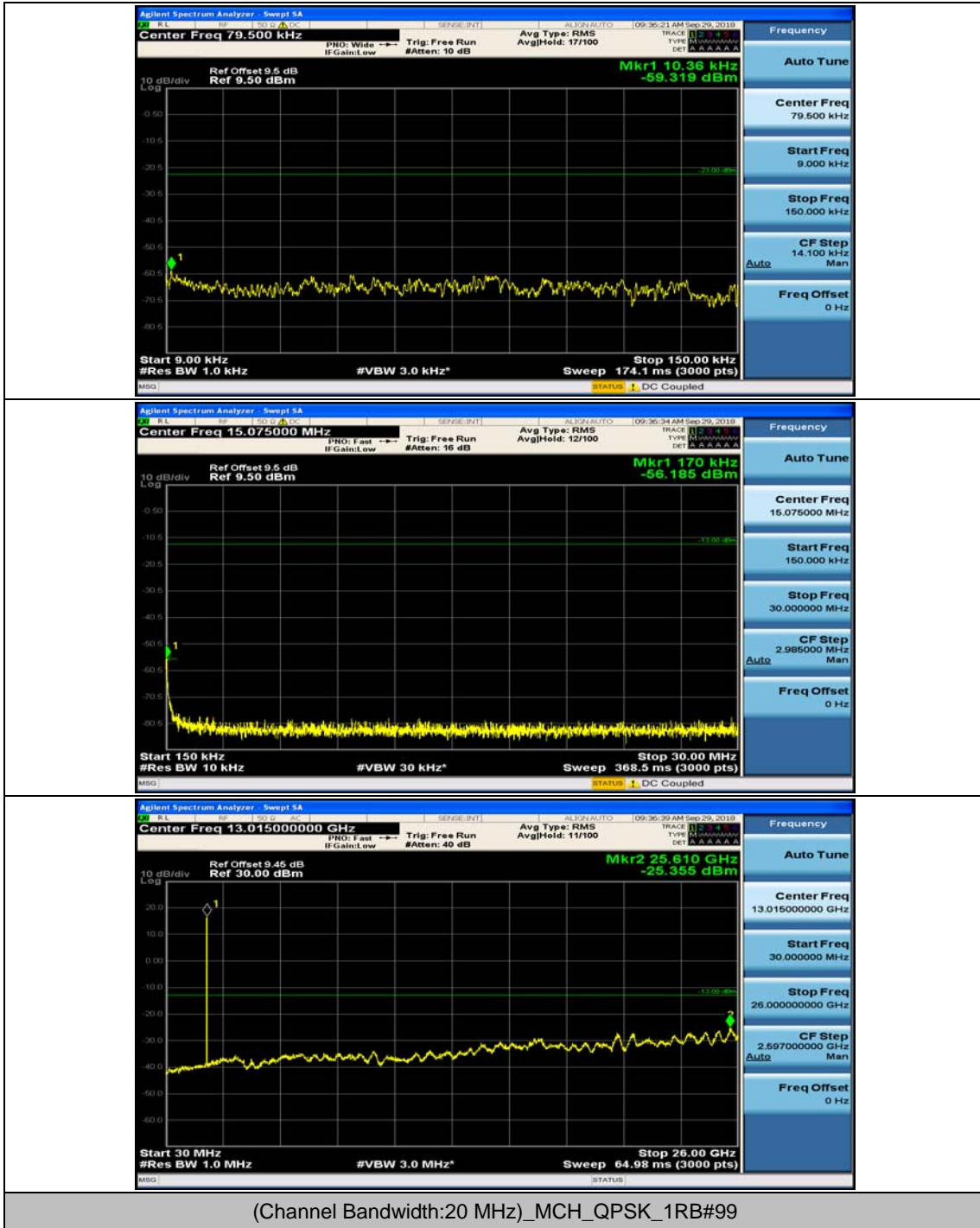


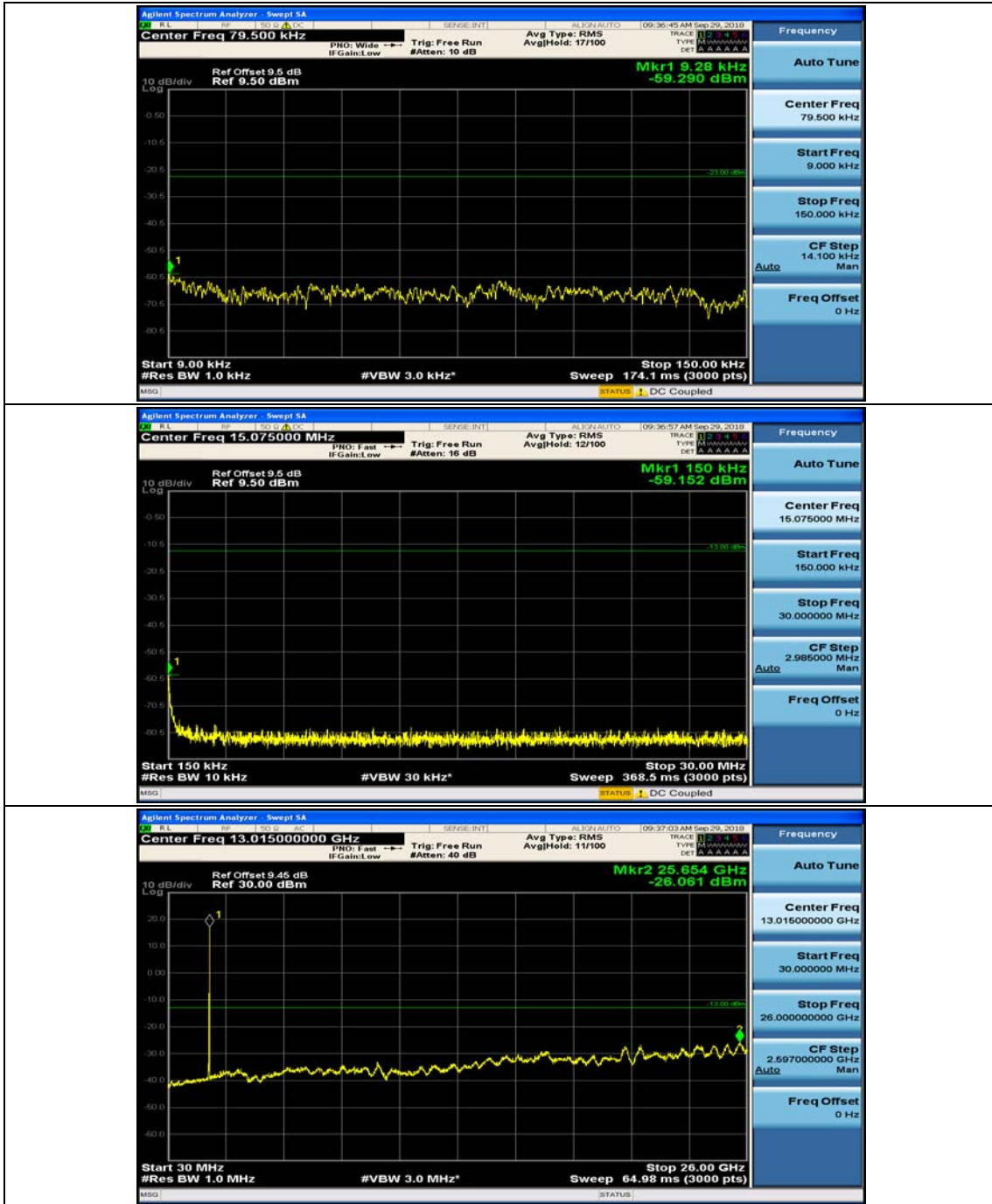


(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#0

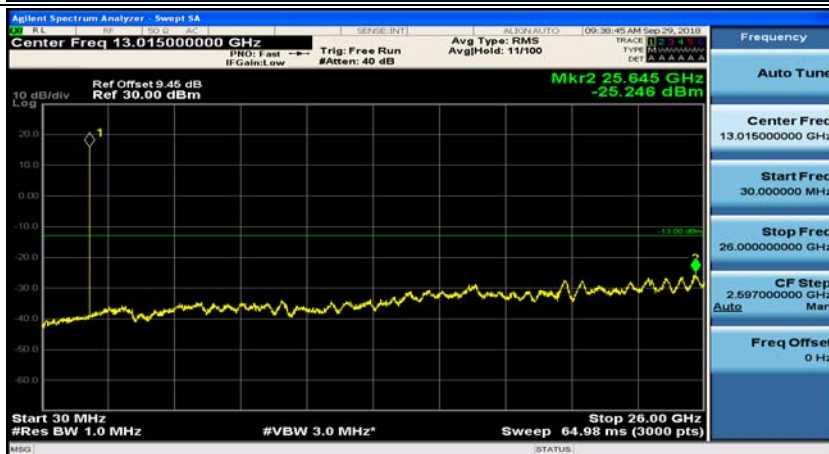
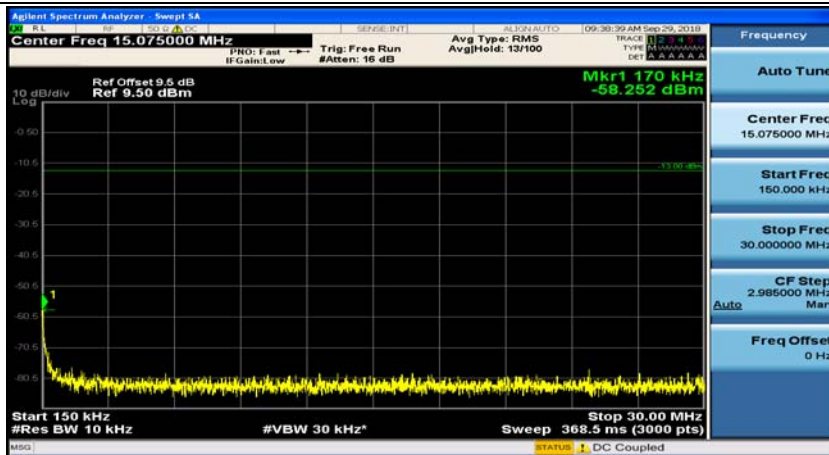
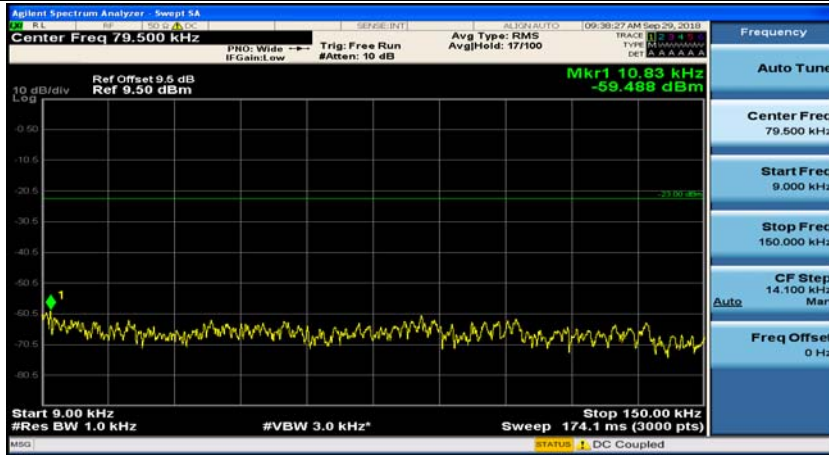


(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#49

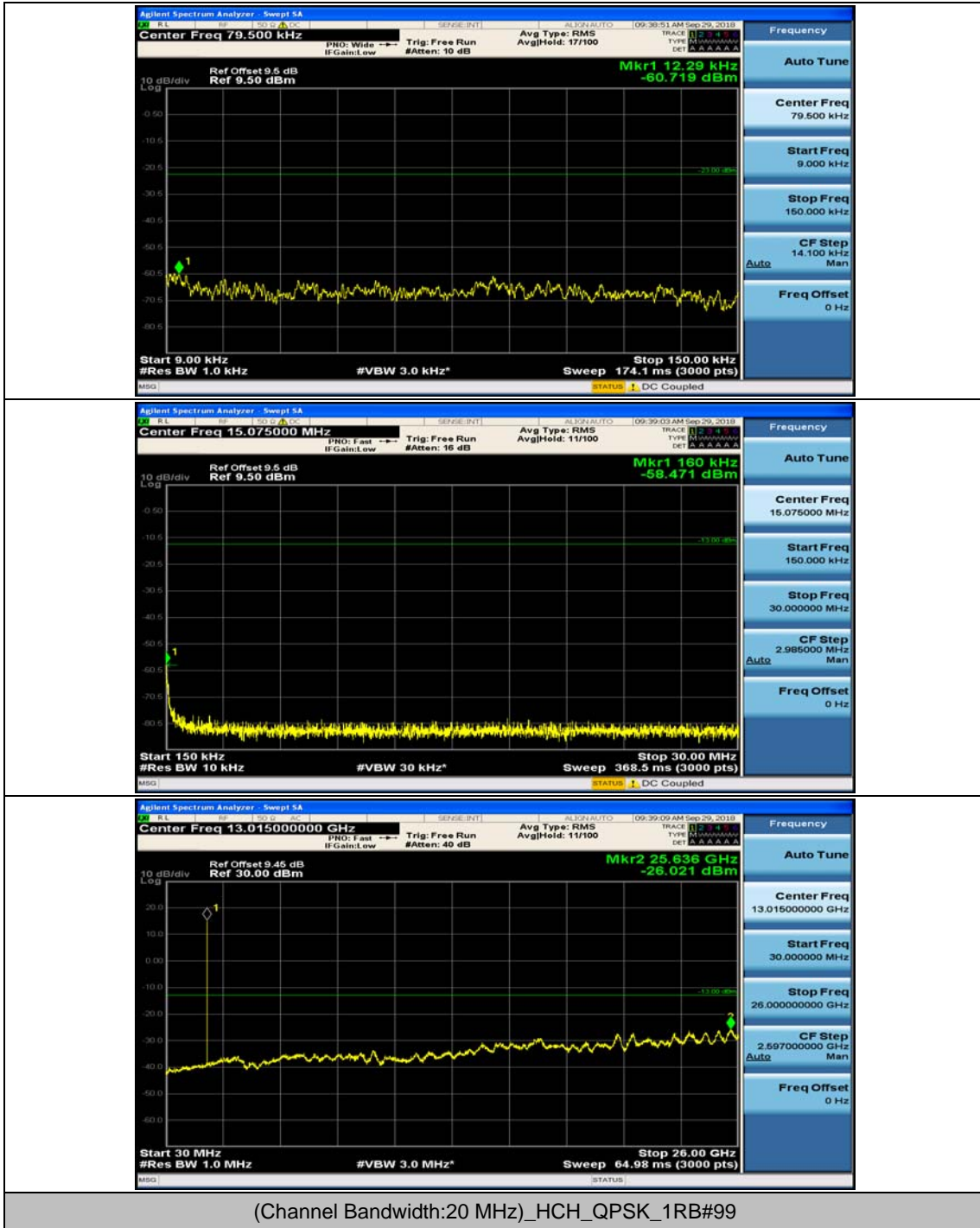


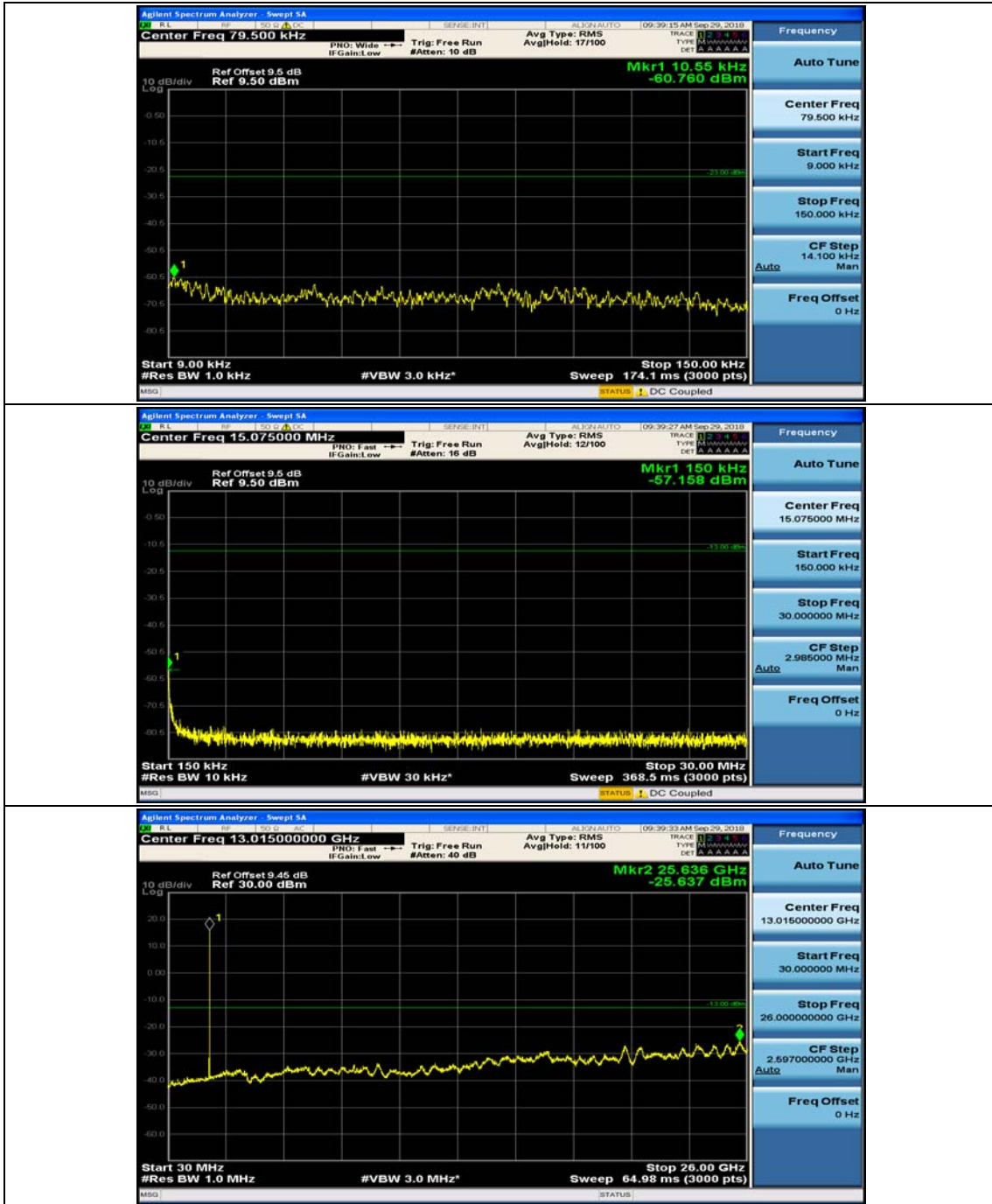


(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#0

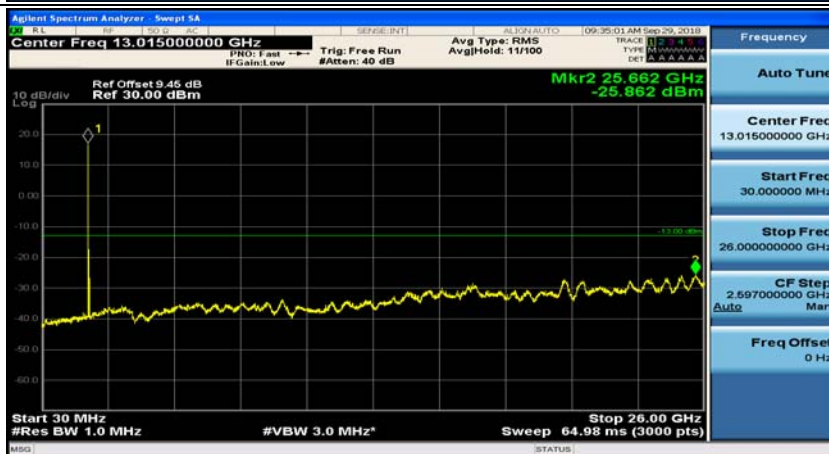
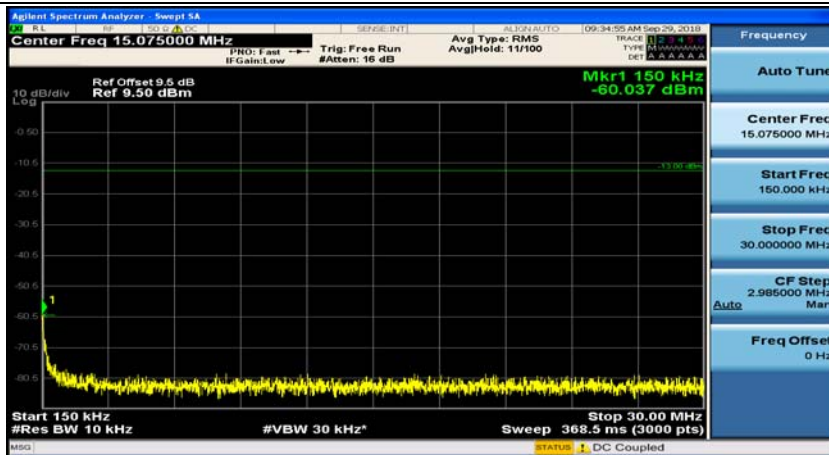
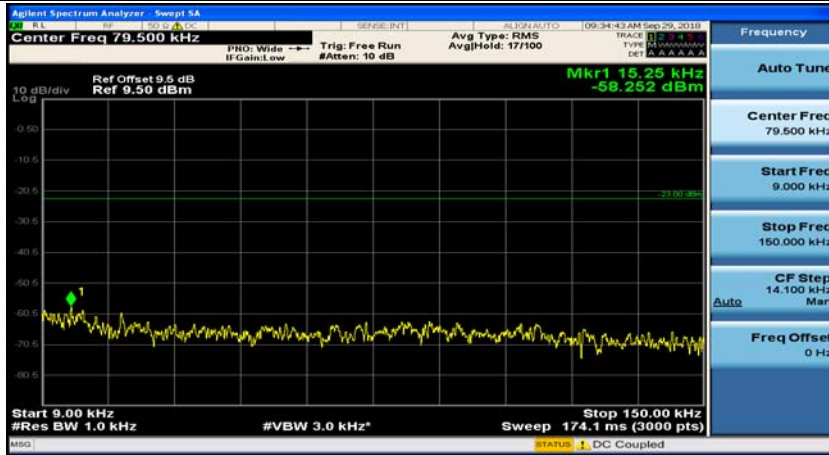


(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#49

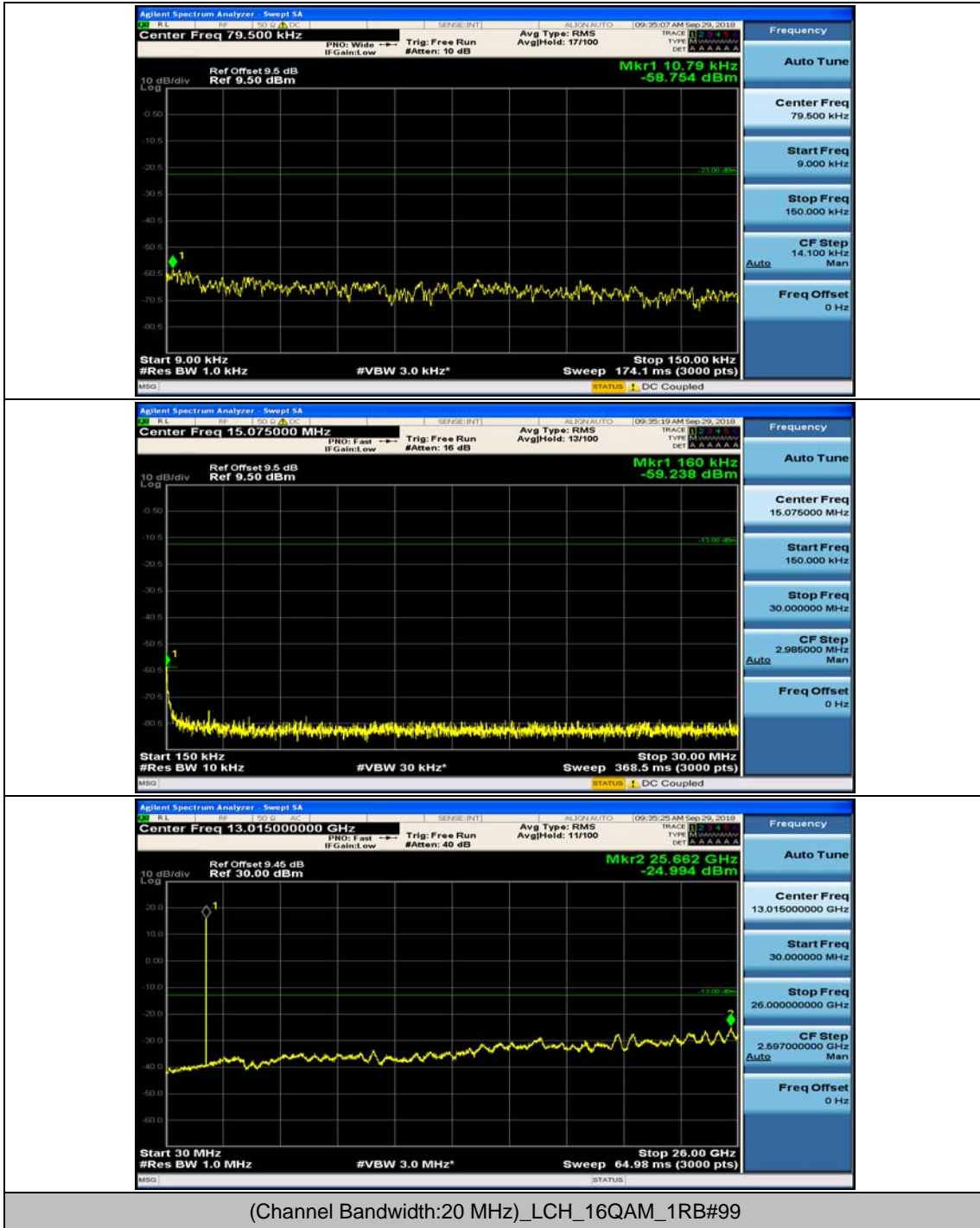


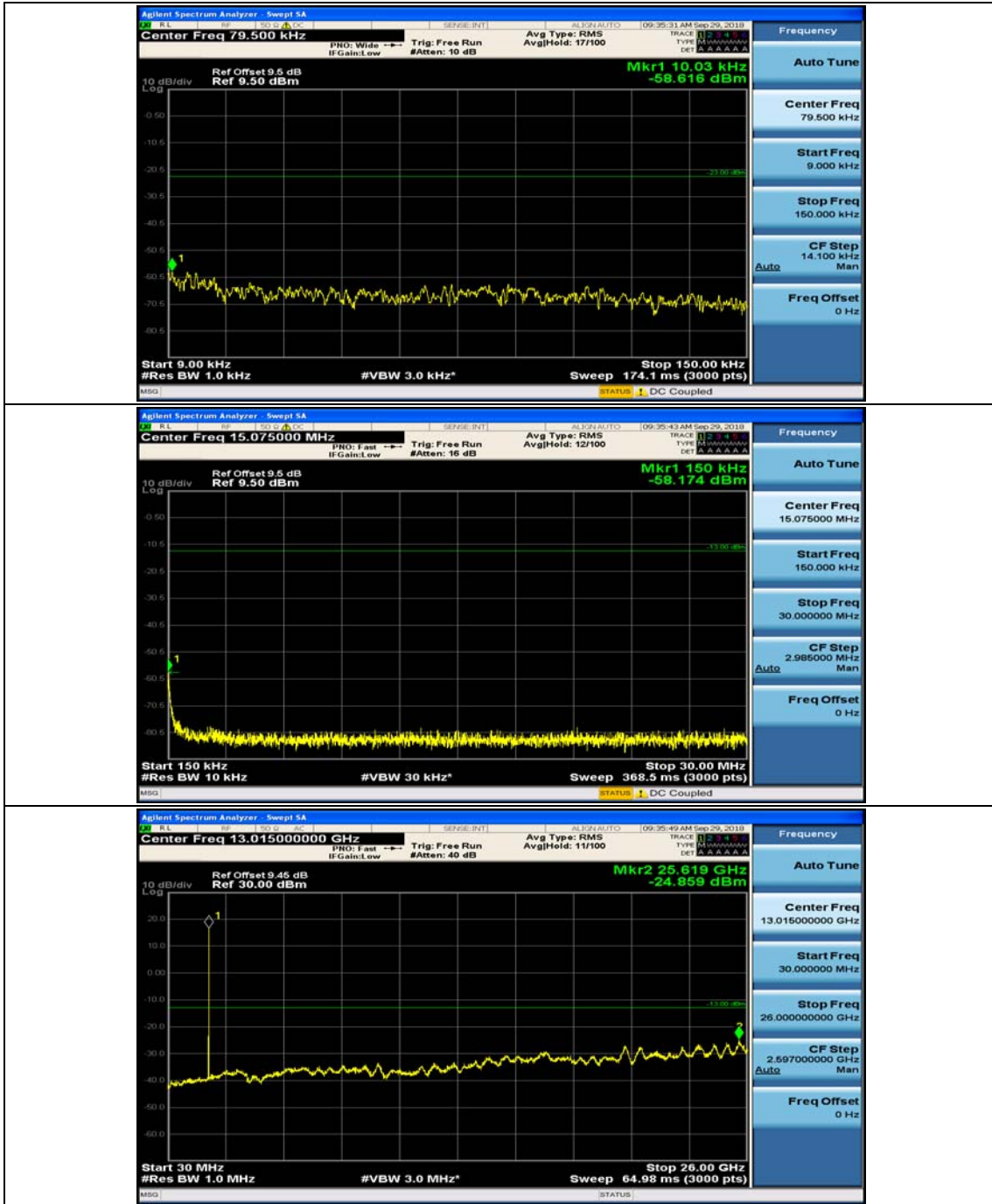


(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#0

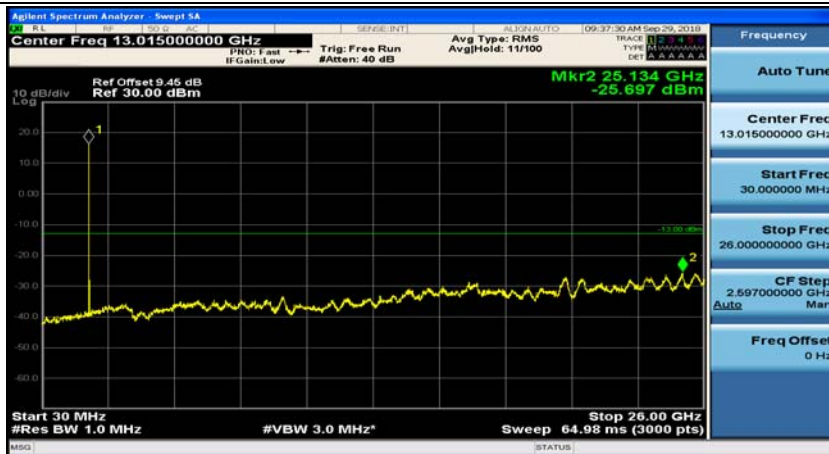
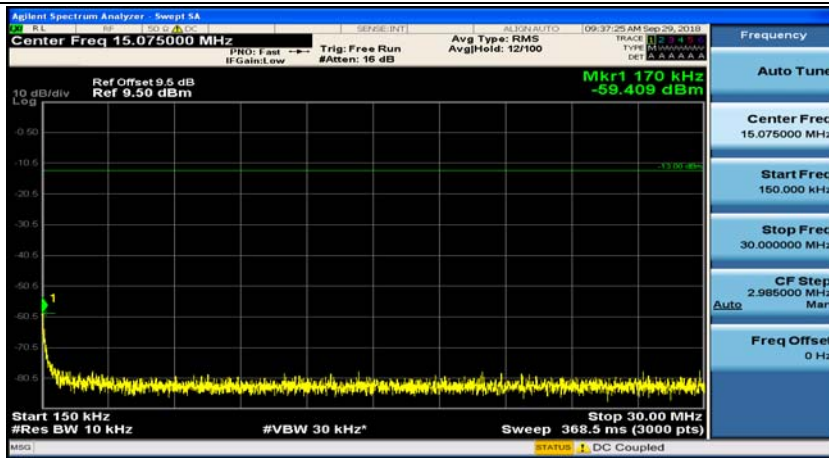
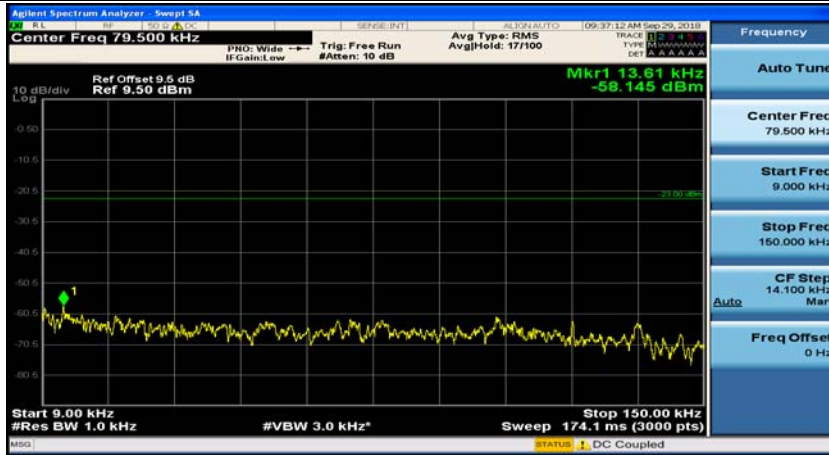


(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#49

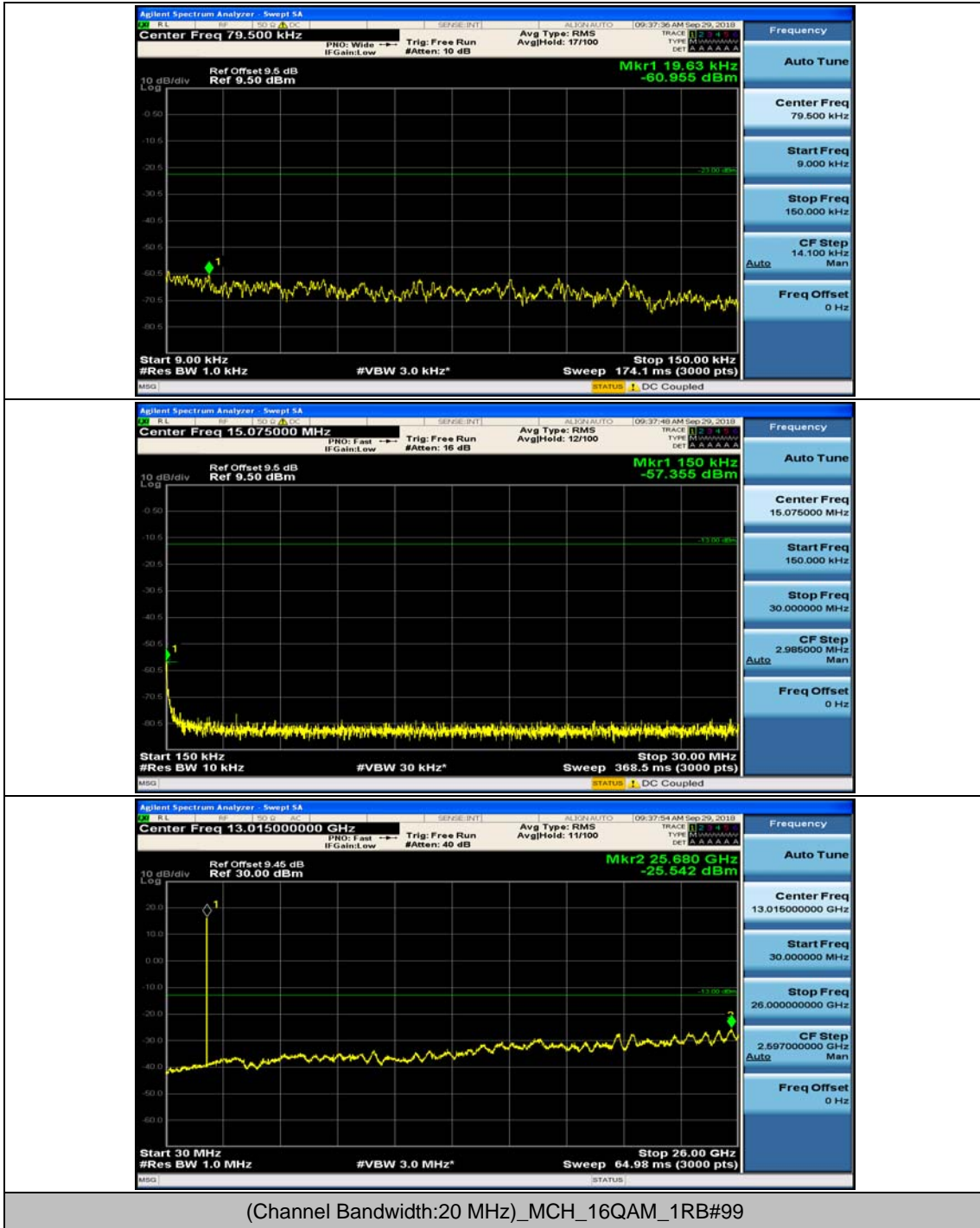


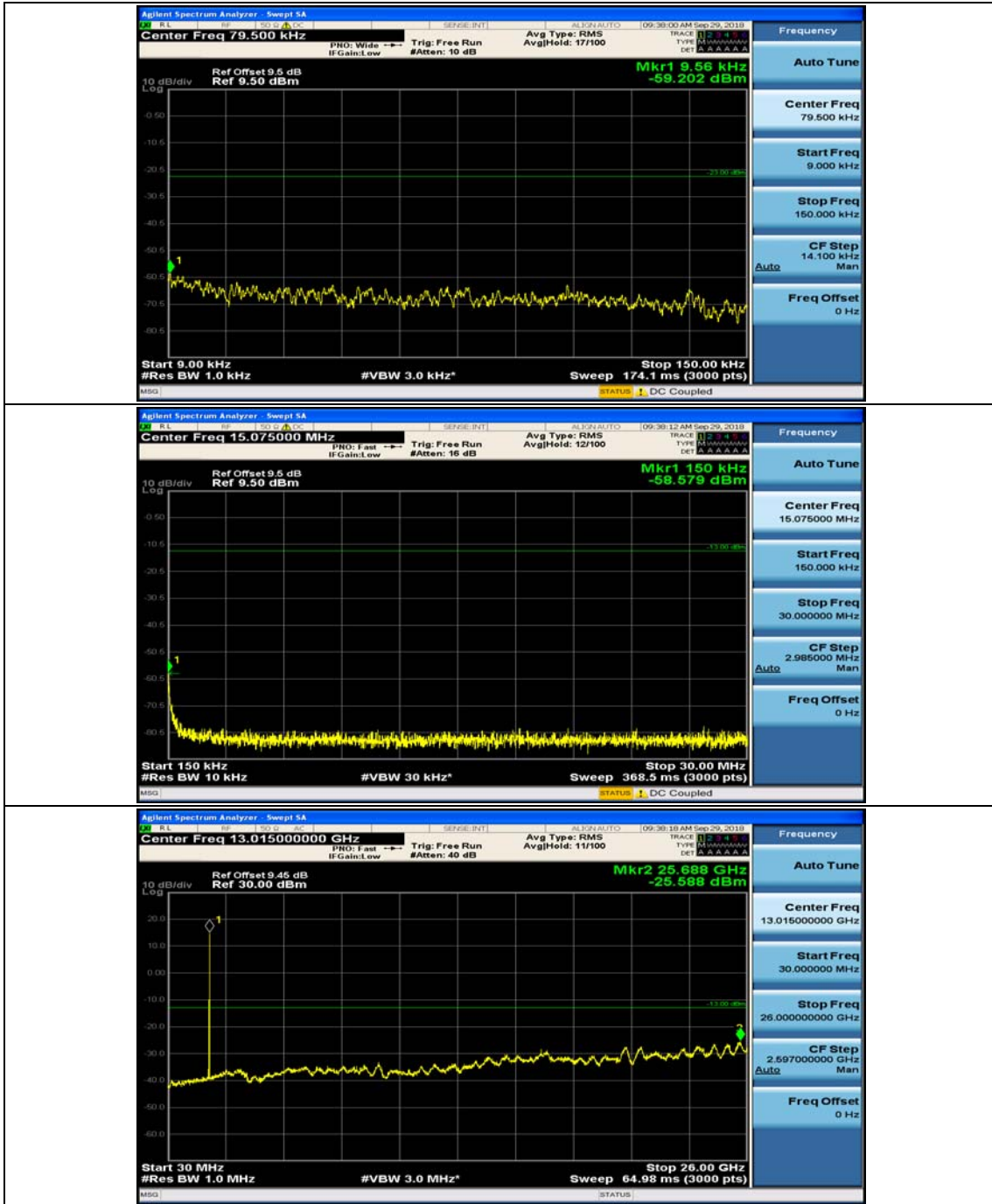


(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#0

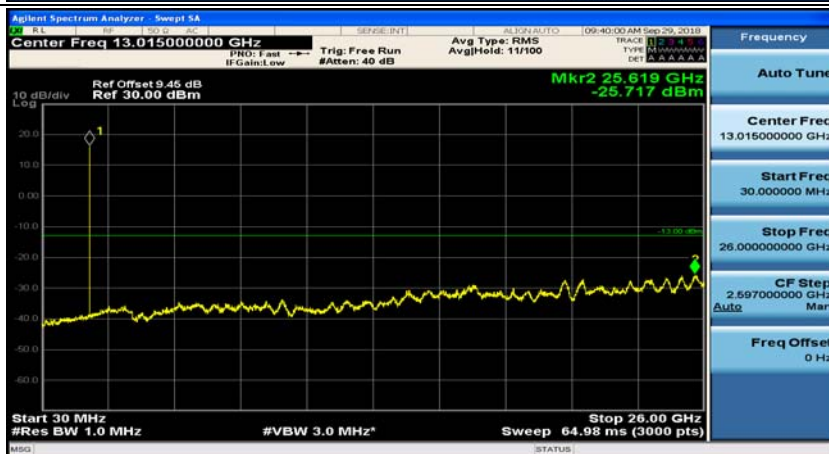
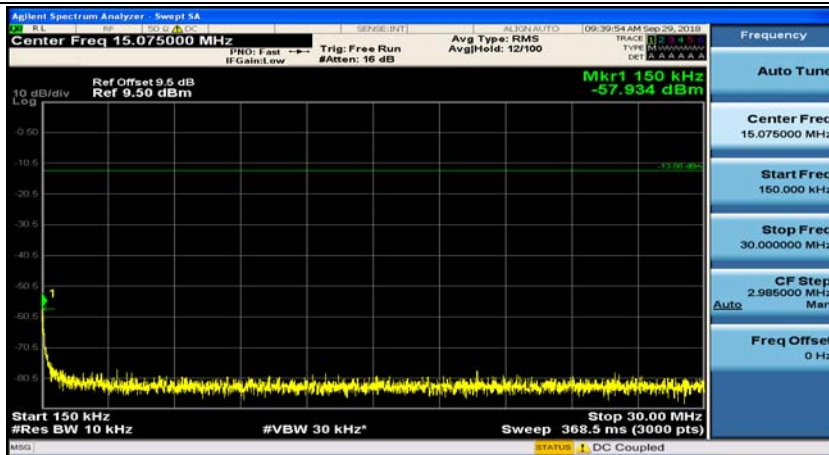
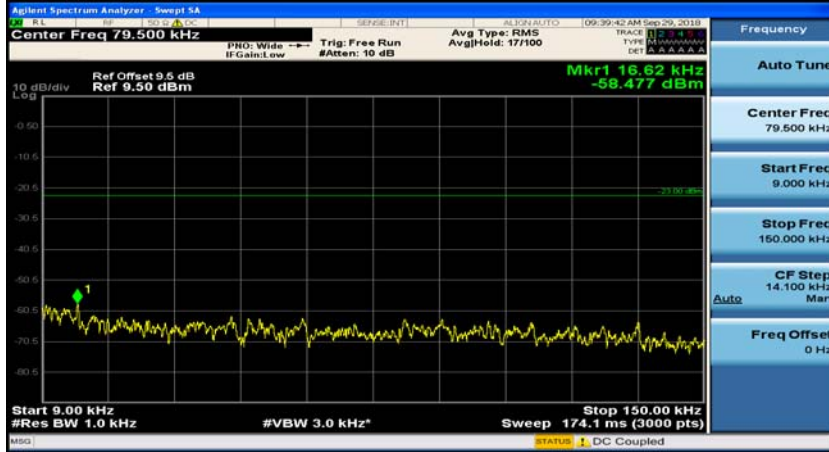


(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#49

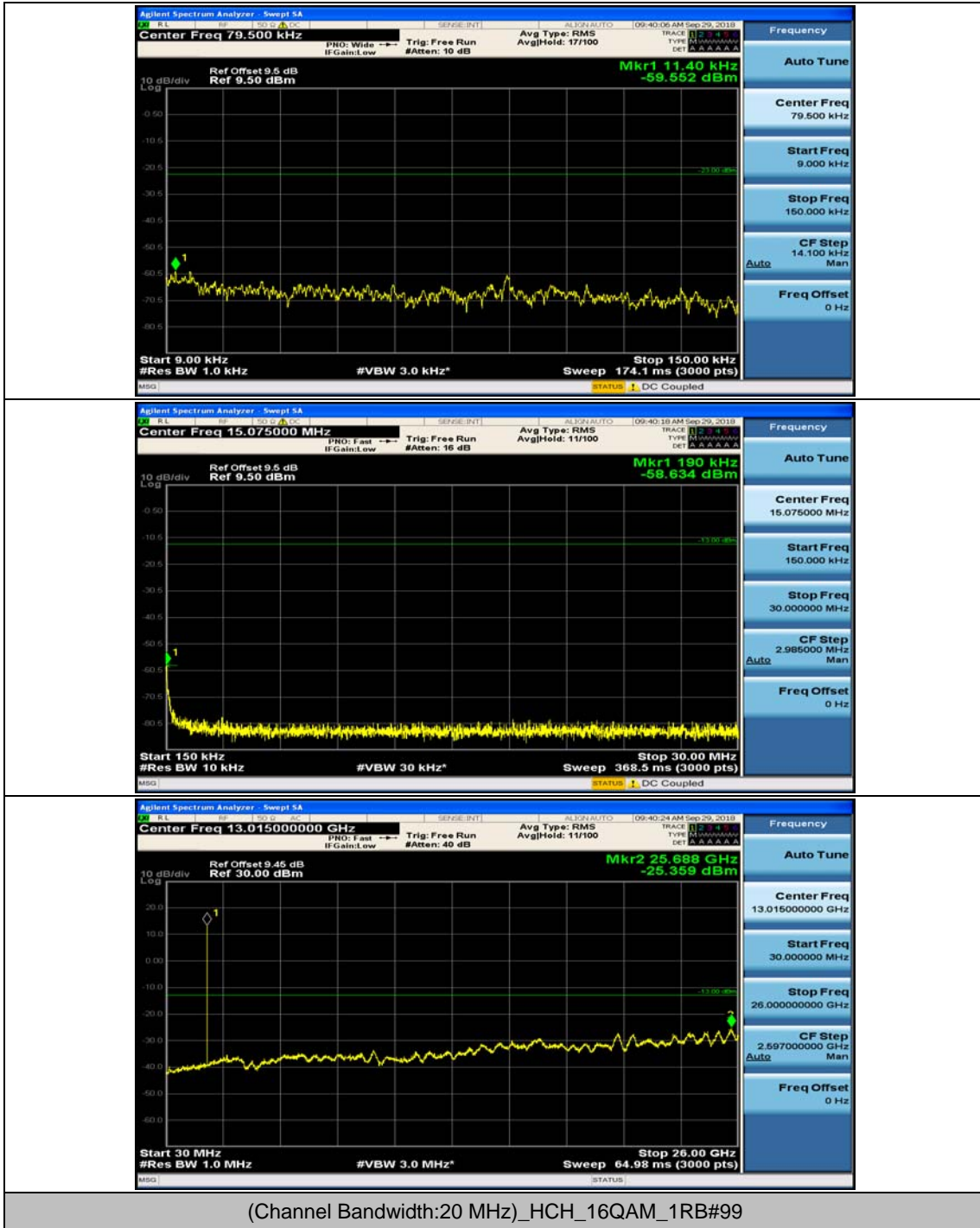


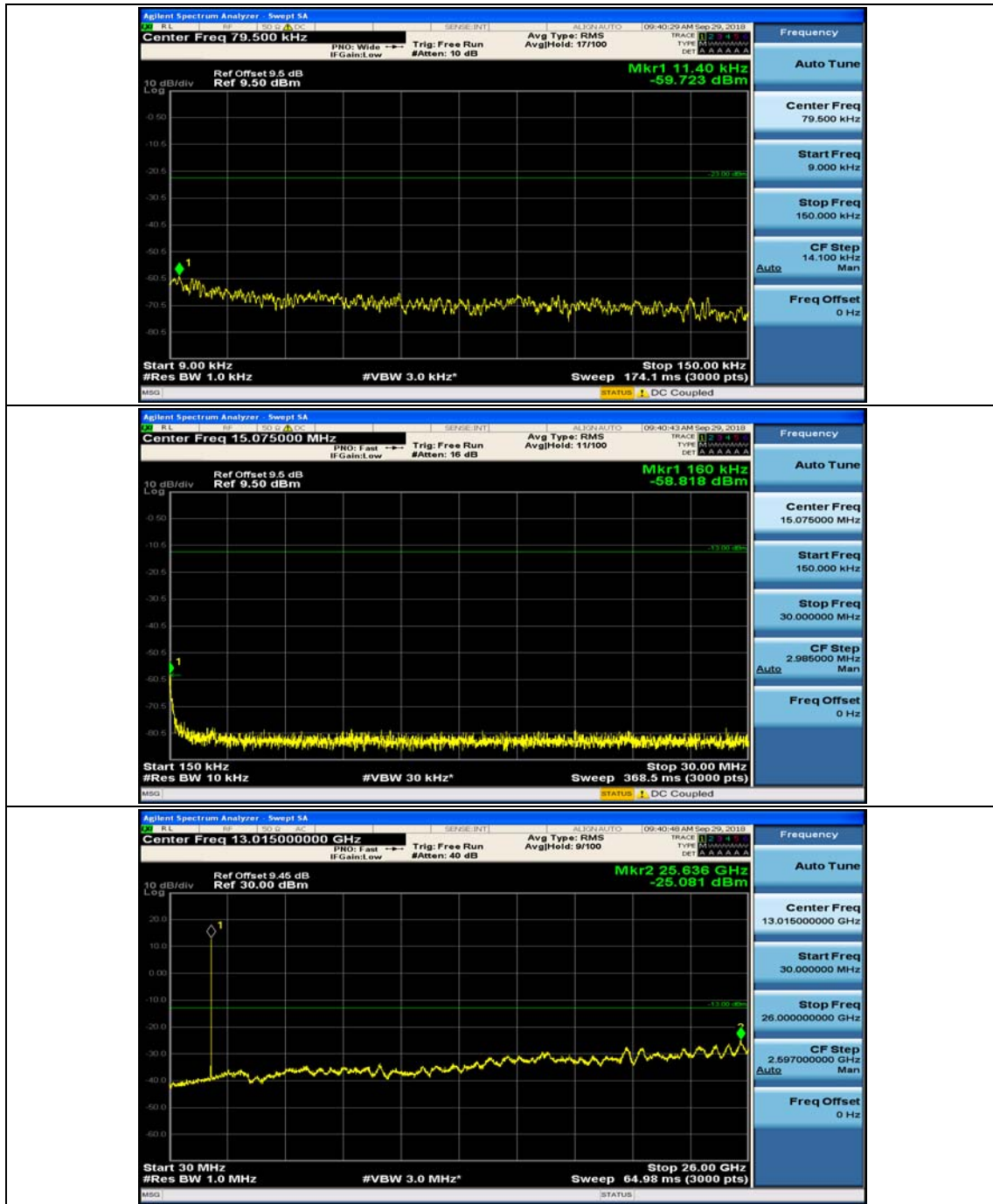


(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#0



(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	-1.94	-0.001048	± 2.5	PASS
		VN	TN	2.49	0.001345	± 2.5	PASS
		VH	TN	0.19	0.000103	± 2.5	PASS
	MCH	VL	TN	4.96	0.002638	± 2.5	PASS
		VN	TN	1.32	0.000702	± 2.5	PASS
		VH	TN	-0.48	-0.000255	± 2.5	PASS
	HCH	VL	TN	0.15	0.000079	± 2.5	PASS
		VN	TN	1.57	0.000822	± 2.5	PASS
		VH	TN	-1.17	-0.000613	± 2.5	PASS
16QAM	LCH	VL	TN	4.42	0.002388	± 2.5	PASS
		VN	TN	-1.94	-0.001048	± 2.5	PASS
		VH	TN	-0.87	-0.000470	± 2.5	PASS
	MCH	VL	TN	0.84	0.000447	± 2.5	PASS
		VN	TN	-1.66	-0.000883	± 2.5	PASS
		VH	TN	-1.48	-0.000787	± 2.5	PASS
	HCH	VL	TN	0.89	0.000466	± 2.5	PASS
		VN	TN	1.06	0.000555	± 2.5	PASS
		VH	TN	-0.9	-0.000471	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.04	-0.000022	± 2.5	PASS
		VN	-20	-0.55	-0.000297	± 2.5	PASS
		VN	-10	-1.05	-0.000567	± 2.5	PASS
		VN	0	0.14	0.000076	± 2.5	PASS
		VN	10	2.65	0.001432	± 2.5	PASS
		VN	20	3.06	0.001653	± 2.5	PASS
		VN	30	3.36	0.001816	± 2.5	PASS
		VN	40	2.96	0.001599	± 2.5	PASS
	MCH	VN	-30	3.15	0.001676	± 2.5	PASS
		VN	-20	-0.28	-0.000149	± 2.5	PASS

		VN	-10	4.75	0.002527	± 2.5	PASS		
		VN	0	2.76	0.001468	± 2.5	PASS		
		VN	10	0.06	0.000032	± 2.5	PASS		
		VN	20	4.72	0.002511	± 2.5	PASS		
		VN	30	1.22	0.000649	± 2.5	PASS		
		VN	40	4.58	0.002436	± 2.5	PASS		
		VN	50	-1.1	-0.000585	± 2.5	PASS		
	HCH	VN	-30	-0.01	-0.000005	± 2.5	PASS		
		VN	-20	2.84	0.001487	± 2.5	PASS		
		VN	-10	4.76	0.002493	± 2.5	PASS		
		VN	0	1.85	0.000969	± 2.5	PASS		
		VN	10	-1.53	-0.000801	± 2.5	PASS		
		VN	20	1.71	0.000896	± 2.5	PASS		
		VN	30	1.92	0.001006	± 2.5	PASS		
		VN	40	1.54	0.000807	± 2.5	PASS		
		VN	50	4.06	0.002126	± 2.5	PASS		
		16QAM	LCH	VN	-30	2.79	0.001508	± 2.5	PASS
				VN	-20	4.64	0.002507	± 2.5	PASS
VN	-10			1.78	0.000962	± 2.5	PASS		
VN	0			-0.58	-0.000313	± 2.5	PASS		
VN	10			-1.15	-0.000621	± 2.5	PASS		
VN	20			3.38	0.001826	± 2.5	PASS		
VN	30			-1.66	-0.000897	± 2.5	PASS		
VN	40			0.14	0.000076	± 2.5	PASS		
VN	50			0.23	0.000124	± 2.5	PASS		
MCH	VN		-30	2.57	0.001367	± 2.5	PASS		
	VN		-20	2.66	0.001415	± 2.5	PASS		
	VN		-10	-0.23	-0.000122	± 2.5	PASS		
	VN		0	-0.78	-0.000415	± 2.5	PASS		
	VN		10	2	0.001064	± 2.5	PASS		
	VN		20	-0.26	-0.000138	± 2.5	PASS		
	VN		30	0.62	0.000330	± 2.5	PASS		
	VN		40	-1.05	-0.000559	± 2.5	PASS		
	VN		50	4.45	0.002367	± 2.5	PASS		
HCH	VN	-30	2.25	0.001178	± 2.5	PASS			
	VN	-20	3.02	0.001582	± 2.5	PASS			
	VN	-10	-1.56	-0.000817	± 2.5	PASS			
	VN	0	0.04	0.000021	± 2.5	PASS			
	VN	10	2.54	0.001330	± 2.5	PASS			
	VN	20	-0.85	-0.000445	± 2.5	PASS			
	VN	30	0.33	0.000173	± 2.5	PASS			

		VN	40	-1.77	-0.000927	± 2.5	PASS
		VN	50	1.47	0.000770	± 2.5	PASS

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz+							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-0.52	-0.000281	± 2.5	PASS
		VN	TN	0.1	0.000054	± 2.5	PASS
		VH	TN	1.38	0.000745	± 2.5	PASS
	MCH	VL	TN	-1.04	-0.000553	± 2.5	PASS
		VN	TN	0.07	0.000037	± 2.5	PASS
		VH	TN	4.39	0.002335	± 2.5	PASS
	HCH	VL	TN	0.75	0.000393	± 2.5	PASS
		VN	TN	1.56	0.000817	± 2.5	PASS
		VH	TN	-1.33	-0.000697	± 2.5	PASS
16QAM	LCH	VL	TN	-0.34	-0.000184	± 2.5	PASS
		VN	TN	4.15	0.002241	± 2.5	PASS
		VH	TN	-1.99	-0.001075	± 2.5	PASS
	MCH	VL	TN	-0.84	-0.000447	± 2.5	PASS
		VN	TN	3.34	0.001777	± 2.5	PASS
		VH	TN	0.66	0.000351	± 2.5	PASS
	HCH	VL	TN	3.64	0.001907	± 2.5	PASS
		VN	TN	2.23	0.001168	± 2.5	PASS
		VH	TN	4.36	0.002285	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.48	-0.000259	± 2.5	PASS
		VN	-20	1.5	0.000810	± 2.5	PASS
		VN	-10	-1.84	-0.000994	± 2.5	PASS
		VN	0	3.28	0.001772	± 2.5	PASS
		VN	10	-0.66	-0.000356	± 2.5	PASS
		VN	20	-1.77	-0.000956	± 2.5	PASS
		VN	30	1.79	0.000967	± 2.5	PASS
		VN	40	0.96	0.000518	± 2.5	PASS
		VN	50	3.76	0.002031	± 2.5	PASS
	MCH	VN	-30	3.97	0.002112	± 2.5	PASS
		VN	-20	-0.42	-0.000223	± 2.5	PASS
		VN	-10	-1.73	-0.000920	± 2.5	PASS

		VN	0	2.02	0.001074	± 2.5	PASS		
		VN	10	-0.45	-0.000239	± 2.5	PASS		
		VN	20	3.26	0.001734	± 2.5	PASS		
		VN	30	1.82	0.000968	± 2.5	PASS		
		VN	40	2.71	0.001441	± 2.5	PASS		
		VN	50	2.7	0.001436	± 2.5	PASS		
	HCH	VN	-30	2.16	0.001132	± 2.5	PASS		
		VN	-20	2.98	0.001561	± 2.5	PASS		
		VN	-10	4.55	0.002384	± 2.5	PASS		
		VN	0	0.34	0.000178	± 2.5	PASS		
		VN	10	0.22	0.000115	± 2.5	PASS		
		VN	20	1.75	0.000917	± 2.5	PASS		
		VN	30	3.85	0.002017	± 2.5	PASS		
		VN	40	3.81	0.001996	± 2.5	PASS		
		VN	50	-0.77	-0.000403	± 2.5	PASS		
		16QAM	LCH	VN	-30	-1.97	-0.001064	± 2.5	PASS
				VN	-20	2.58	0.001393	± 2.5	PASS
				VN	-10	2.38	0.001285	± 2.5	PASS
VN	0			-0.84	-0.000454	± 2.5	PASS		
VN	10			1.37	0.000740	± 2.5	PASS		
VN	20			-0.13	-0.000070	± 2.5	PASS		
VN	30			3.02	0.001631	± 2.5	PASS		
VN	40			3.92	0.002117	± 2.5	PASS		
VN	50			-1.46	-0.000789	± 2.5	PASS		
MCH	VN		-30	-0.63	-0.000335	± 2.5	PASS		
	VN		-20	3.56	0.001894	± 2.5	PASS		
	VN		-10	0.05	0.000027	± 2.5	PASS		
	VN		0	0.87	0.000463	± 2.5	PASS		
	VN		10	2.8	0.001489	± 2.5	PASS		
	VN		20	0.63	0.000335	± 2.5	PASS		
	VN		30	-1.68	-0.000894	± 2.5	PASS		
	VN		40	0.41	0.000218	± 2.5	PASS		
	VN		50	1.45	0.000771	± 2.5	PASS		
HCH	VN		-30	-0.18	-0.000094	± 2.5	PASS		
	VN		-20	-1.04	-0.000545	± 2.5	PASS		
	VN		-10	-1.49	-0.000781	± 2.5	PASS		
	VN		0	2.56	0.001341	± 2.5	PASS		
	VN		10	0.94	0.000493	± 2.5	PASS		
	VN		20	4.37	0.002290	± 2.5	PASS		
	VN		30	3.27	0.001713	± 2.5	PASS		
	VN		40	-1.52	-0.000796	± 2.5	PASS		

		VN	50	4.94	0.002588	± 2.5	PASS
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Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	2.72	0.001468	± 2.5	PASS
		VN	TN	4.28	0.002310	± 2.5	PASS
		VH	TN	0.56	0.000302	± 2.5	PASS
	MCH	VL	TN	2.28	0.001213	± 2.5	PASS
		VN	TN	-0.83	-0.000441	± 2.5	PASS
		VH	TN	1.85	0.000984	± 2.5	PASS
	HCH	VL	TN	1.1	0.000577	± 2.5	PASS
		VN	TN	1.44	0.000755	± 2.5	PASS
		VH	TN	0.76	0.000398	± 2.5	PASS
16QAM	LCH	VL	TN	3.08	0.001663	± 2.5	PASS
		VN	TN	1.06	0.000572	± 2.5	PASS
		VH	TN	-1.14	-0.000615	± 2.5	PASS
	MCH	VL	TN	4.73	0.002516	± 2.5	PASS
		VN	TN	-1.08	-0.000574	± 2.5	PASS
		VH	TN	-1.21	-0.000644	± 2.5	PASS
	HCH	VL	TN	2.71	0.001421	± 2.5	PASS
		VN	TN	1.44	0.000755	± 2.5	PASS
		VH	TN	4.78	0.002506	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.64	-0.000345	± 2.5	PASS
		VN	-20	0.3	0.000162	± 2.5	PASS
		VN	-10	0.95	0.000513	± 2.5	PASS
		VN	0	-0.22	-0.000119	± 2.5	PASS
		VN	10	0.38	0.000205	± 2.5	PASS
		VN	20	4.85	0.002618	± 2.5	PASS
		VN	30	3.06	0.001652	± 2.5	PASS
		VN	40	0.01	0.000005	± 2.5	PASS
		VN	50	0.81	0.000437	± 2.5	PASS
	MCH	VN	-30	-1.56	-0.000830	± 2.5	PASS
		VN	-20	0.43	0.000229	± 2.5	PASS
		VN	-10	-0.91	-0.000484	± 2.5	PASS
		VN	0	-1.03	-0.000548	± 2.5	PASS

		VN	10	-1.15	-0.000612	± 2.5	PASS
		VN	20	0.42	0.000223	± 2.5	PASS
		VN	30	-1.26	-0.000670	± 2.5	PASS
		VN	40	3.33	0.001771	± 2.5	PASS
		VN	50	4.15	0.002207	± 2.5	PASS
	HCH	VN	-30	2.72	0.001426	± 2.5	PASS
		VN	-20	-0.66	-0.000346	± 2.5	PASS
		VN	-10	0.51	0.000267	± 2.5	PASS
		VN	0	3.5	0.001835	± 2.5	PASS
		VN	10	1	0.000524	± 2.5	PASS
		VN	20	-1.04	-0.000545	± 2.5	PASS
		VN	30	-1.66	-0.000870	± 2.5	PASS
		VN	40	0.02	0.000010	± 2.5	PASS
		VN	50	4.02	0.002107	± 2.5	PASS
		16QAM	LCH	VN	-30	4.09	0.002208
VN	-20			3.66	0.001976	± 2.5	PASS
VN	-10			3.15	0.001700	± 2.5	PASS
VN	0			1.82	0.000982	± 2.5	PASS
VN	10			-1.51	-0.000815	± 2.5	PASS
VN	20			4.84	0.002613	± 2.5	PASS
VN	30			-1.4	-0.000756	± 2.5	PASS
VN	40			-1.69	-0.000912	± 2.5	PASS
VN	50			2.84	0.001533	± 2.5	PASS
MCH	VN		-30	3.46	0.001840	± 2.5	PASS
	VN		-20	0.87	0.000463	± 2.5	PASS
	VN		-10	2.92	0.001553	± 2.5	PASS
	VN		0	2.33	0.001239	± 2.5	PASS
	VN		10	0.66	0.000351	± 2.5	PASS
	VN		20	4.97	0.002644	± 2.5	PASS
	VN		30	2.87	0.001527	± 2.5	PASS
	VN		40	-1.48	-0.000787	± 2.5	PASS
	VN		50	3.61	0.001920	± 2.5	PASS
HCH	VN		-30	-1.47	-0.000771	± 2.5	PASS
	VN		-20	-1.31	-0.000687	± 2.5	PASS
	VN		-10	0.87	0.000456	± 2.5	PASS
	VN		0	4.54	0.002380	± 2.5	PASS
	VN		10	0.81	0.000425	± 2.5	PASS
	VN		20	-0.49	-0.000257	± 2.5	PASS
	VN		30	-1.13	-0.000592	± 2.5	PASS
	VN		40	1.41	0.000739	± 2.5	PASS
	VN		50	1.39	0.000729	± 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	3.68	0.001984	± 2.5	PASS
		VN	TN	-0.31	-0.000167	± 2.5	PASS
		VH	TN	4.02	0.002167	± 2.5	PASS
	MCH	VL	TN	0.66	0.000351	± 2.5	PASS
		VN	TN	2.45	0.001303	± 2.5	PASS
		VH	TN	0.55	0.000293	± 2.5	PASS
	HCH	VL	TN	2.2	0.001155	± 2.5	PASS
		VN	TN	-0.5	-0.000262	± 2.5	PASS
		VH	TN	-0.4	-0.000210	± 2.5	PASS
16QAM	LCH	VL	TN	0.42	0.000226	± 2.5	PASS
		VN	TN	0.69	0.000372	± 2.5	PASS
		VH	TN	1.83	0.000987	± 2.5	PASS
	MCH	VL	TN	4.87	0.002590	± 2.5	PASS
		VN	TN	0.41	0.000218	± 2.5	PASS
		VH	TN	1.52	0.000809	± 2.5	PASS
	HCH	VL	TN	-1.43	-0.000751	± 2.5	PASS
		VN	TN	2.64	0.001386	± 2.5	PASS
		VH	TN	2.7	0.001417	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	1.61	0.000868	± 2.5	PASS
		VN	-20	-1.11	-0.000598	± 2.5	PASS
		VN	-10	2.06	0.001111	± 2.5	PASS
		VN	0	1.49	0.000803	± 2.5	PASS
		VN	10	2.07	0.001116	± 2.5	PASS
		VN	20	4.59	0.002474	± 2.5	PASS
		VN	30	1.09	0.000588	± 2.5	PASS
		VN	40	2.57	0.001385	± 2.5	PASS
		VN	50	4.5	0.002426	± 2.5	PASS
	MCH	VN	-30	0.56	0.000298	± 2.5	PASS
		VN	-20	3.27	0.001739	± 2.5	PASS
		VN	-10	4.07	0.002165	± 2.5	PASS
		VN	0	3.99	0.002122	± 2.5	PASS
		VN	10	2.11	0.001122	± 2.5	PASS
		VN	20	3.76	0.002000	± 2.5	PASS

		VN	30	4.83	0.002569	± 2.5	PASS
		VN	40	-1.04	-0.000553	± 2.5	PASS
		VN	50	0.77	0.000410	± 2.5	PASS
	HCH	VN	-30	3.31	0.001738	± 2.5	PASS
		VN	-20	3.52	0.001848	± 2.5	PASS
		VN	-10	0.2	0.000105	± 2.5	PASS
		VN	0	0.19	0.000100	± 2.5	PASS
		VN	10	1.75	0.000919	± 2.5	PASS
		VN	20	2.07	0.001087	± 2.5	PASS
		VN	30	3.14	0.001648	± 2.5	PASS
		VN	40	-0.6	-0.000315	± 2.5	PASS
		VN	50	0.17	0.000089	± 2.5	PASS
QPSK	LCH	VN	-30	3.73	0.002011	± 2.5	PASS
		VN	-20	2.7	0.001456	± 2.5	PASS
		VN	-10	-1.76	-0.000949	± 2.5	PASS
		VN	0	-0.54	-0.000291	± 2.5	PASS
		VN	10	2.48	0.001337	± 2.5	PASS
		VN	20	4.98	0.002685	± 2.5	PASS
		VN	30	2.4	0.001294	± 2.5	PASS
		VN	40	2.73	0.001472	± 2.5	PASS
		VN	50	-1.03	-0.000555	± 2.5	PASS
	MCH	VN	-30	4.44	0.002362	± 2.5	PASS
		VN	-20	-0.02	-0.000011	± 2.5	PASS
		VN	-10	4.94	0.002628	± 2.5	PASS
		VN	0	0.96	0.000511	± 2.5	PASS
		VN	10	0.23	0.000122	± 2.5	PASS
		VN	20	-0.2	-0.000106	± 2.5	PASS
		VN	30	4.52	0.002404	± 2.5	PASS
		VN	40	-1.4	-0.000745	± 2.5	PASS
		VN	50	4.68	0.002489	± 2.5	PASS
	HCH	VN	-30	-0.31	-0.000163	± 2.5	PASS
		VN	-20	2.79	0.001465	± 2.5	PASS
		VN	-10	3.6	0.001890	± 2.5	PASS
		VN	0	3.44	0.001806	± 2.5	PASS
		VN	10	2.01	0.001055	± 2.5	PASS
		VN	20	4.11	0.002157	± 2.5	PASS
VN		30	0.26	0.000136	± 2.5	PASS	
VN		40	-0.07	-0.000037	± 2.5	PASS	
VN	50	-1.64	-0.000861	± 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	0.27	0.000145	± 2.5	PASS
		VN	TN	3.46	0.001863	± 2.5	PASS
		VH	TN	2.21	0.001190	± 2.5	PASS
	MCH	VL	TN	1.57	0.000835	± 2.5	PASS
		VN	TN	-1.44	-0.000766	± 2.5	PASS
		VH	TN	-0.79	-0.000420	± 2.5	PASS
	HCH	VL	TN	1.83	0.000962	± 2.5	PASS
		VN	TN	3.29	0.001729	± 2.5	PASS
		VH	TN	1.52	0.000799	± 2.5	PASS
16QAM	LCH	VL	TN	0.16	0.000086	± 2.5	PASS
		VN	TN	-0.84	-0.000452	± 2.5	PASS
		VH	TN	3.77	0.002030	± 2.5	PASS
	MCH	VL	TN	4.51	0.002399	± 2.5	PASS
		VN	TN	-0.64	-0.000340	± 2.5	PASS
		VH	TN	4.27	0.002271	± 2.5	PASS
	HCH	VL	TN	4.04	0.002124	± 2.5	PASS
		VN	TN	-0.7	-0.000368	± 2.5	PASS
		VH	TN	0.05	0.000026	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.66	-0.000355	± 2.5	PASS
		VN	-20	4.66	0.002509	± 2.5	PASS
		VN	-10	0.32	0.000172	± 2.5	PASS
		VN	0	4.21	0.002266	± 2.5	PASS
		VN	10	-0.42	-0.000226	± 2.5	PASS
		VN	20	0.65	0.000350	± 2.5	PASS
		VN	30	-1.5	-0.000808	± 2.5	PASS
		VN	40	3.19	0.001717	± 2.5	PASS
		VN	50	-1.95	-0.001050	± 2.5	PASS
	MCH	VN	-30	1.41	0.000750	± 2.5	PASS
		VN	-20	0.61	0.000324	± 2.5	PASS
		VN	-10	3.27	0.001739	± 2.5	PASS
		VN	0	3.67	0.001952	± 2.5	PASS
		VN	10	3.79	0.002016	± 2.5	PASS
		VN	20	2.01	0.001069	± 2.5	PASS

		VN	30	2.6	0.001383	± 2.5	PASS
		VN	40	-0.73	-0.000388	± 2.5	PASS
		VN	50	1.14	0.000606	± 2.5	PASS
	HCH	VN	-30	4.88	0.002565	± 2.5	PASS
		VN	-20	2.11	0.001109	± 2.5	PASS
		VN	-10	-1.81	-0.000951	± 2.5	PASS
		VN	0	4.39	0.002307	± 2.5	PASS
		VN	10	-0.54	-0.000284	± 2.5	PASS
		VN	20	2.81	0.001477	± 2.5	PASS
		VN	30	3.25	0.001708	± 2.5	PASS
		VN	40	-1.37	-0.000720	± 2.5	PASS
		VN	50	1.9	0.000999	± 2.5	PASS
16QAM	LCH	VN	-30	-0.8	-0.000431	± 2.5	PASS
		VN	-20	0.19	0.000102	± 2.5	PASS
		VN	-10	4.58	0.002466	± 2.5	PASS
		VN	0	-0.5	-0.000269	± 2.5	PASS
		VN	10	3.58	0.001927	± 2.5	PASS
		VN	20	-1.89	-0.001017	± 2.5	PASS
		VN	30	-1.96	-0.001055	± 2.5	PASS
		VN	40	-0.81	-0.000436	± 2.5	PASS
		VN	50	-0.43	-0.000231	± 2.5	PASS
	MCH	VN	-30	3.55	0.001888	± 2.5	PASS
		VN	-20	2.85	0.001516	± 2.5	PASS
		VN	-10	1.98	0.001053	± 2.5	PASS
		VN	0	1.75	0.000931	± 2.5	PASS
		VN	10	0.11	0.000059	± 2.5	PASS
		VN	20	3.5	0.001862	± 2.5	PASS
		VN	30	0.69	0.000367	± 2.5	PASS
		VN	40	4.02	0.002138	± 2.5	PASS
		VN	50	2.39	0.001271	± 2.5	PASS
	HCH	VN	-30	0.45	0.000237	± 2.5	PASS
		VN	-20	2.43	0.001277	± 2.5	PASS
		VN	-10	4.72	0.002481	± 2.5	PASS
		VN	0	4.25	0.002234	± 2.5	PASS
		VN	10	0.56	0.000294	± 2.5	PASS
		VN	20	2.49	0.001309	± 2.5	PASS
		VN	30	1.93	0.001014	± 2.5	PASS
		VN	40	0.68	0.000357	± 2.5	PASS
		VN	50	1.14	0.000599	± 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	4.75	0.002554	± 2.5	PASS
		VN	TN	2.07	0.001113	± 2.5	PASS
		VH	TN	1.29	0.000694	± 2.5	PASS
	MCH	VL	TN	1.19	0.000633	± 2.5	PASS
		VN	TN	-0.07	-0.000037	± 2.5	PASS
		VH	TN	1.28	0.000681	± 2.5	PASS
	HCH	VL	TN	0.04	0.000021	± 2.5	PASS
		VN	TN	3.49	0.001837	± 2.5	PASS
		VH	TN	1.26	0.000663	± 2.5	PASS
16QAM	LCH	VL	TN	0.36	0.000194	± 2.5	PASS
		VN	TN	3.94	0.002118	± 2.5	PASS
		VH	TN	-0.65	-0.000349	± 2.5	PASS
	MCH	VL	TN	-0.74	-0.000394	± 2.5	PASS
		VN	TN	1.42	0.000755	± 2.5	PASS
		VH	TN	-1.76	-0.000936	± 2.5	PASS
	HCH	VL	TN	2.61	0.001374	± 2.5	PASS
		VN	TN	0.35	0.000184	± 2.5	PASS
		VH	TN	-0.42	-0.000221	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.8	0.002581	± 2.5	PASS
		VN	-20	3.03	0.001629	± 2.5	PASS
		VN	-10	1.64	0.000882	± 2.5	PASS
		VN	0	-1.77	-0.000952	± 2.5	PASS
		VN	10	1.52	0.000817	± 2.5	PASS
		VN	20	-1.6	-0.000860	± 2.5	PASS
		VN	30	4.42	0.002376	± 2.5	PASS
		VN	40	-1.63	-0.000876	± 2.5	PASS
		VN	50	2.27	0.001220	± 2.5	PASS
	MCH	VN	-30	-1.74	-0.000926	± 2.5	PASS
		VN	-20	-0.37	-0.000197	± 2.5	PASS
		VN	-10	-0.97	-0.000516	± 2.5	PASS
		VN	0	4.32	0.002298	± 2.5	PASS
		VN	10	3.53	0.001878	± 2.5	PASS
		VN	20	-0.74	-0.000394	± 2.5	PASS

		VN	30	-0.66	-0.000351	± 2.5	PASS
		VN	40	0.21	0.000112	± 2.5	PASS
		VN	50	4.41	0.002346	± 2.5	PASS
	HCH	VN	-30	-1.11	-0.000584	± 2.5	PASS
		VN	-20	4.03	0.002121	± 2.5	PASS
		VN	-10	2.41	0.001268	± 2.5	PASS
		VN	0	0.26	0.000137	± 2.5	PASS
		VN	10	-1.88	-0.000989	± 2.5	PASS
		VN	20	3.33	0.001753	± 2.5	PASS
		VN	30	0.76	0.000400	± 2.5	PASS
		VN	40	3.64	0.001916	± 2.5	PASS
		VN	50	4.39	0.002311	± 2.5	PASS
16QAM	LCH	VN	-30	3.19	0.001715	± 2.5	PASS
		VN	-20	2.49	0.001339	± 2.5	PASS
		VN	-10	-0.07	-0.000038	± 2.5	PASS
		VN	0	4.24	0.002280	± 2.5	PASS
		VN	10	4.1	0.002204	± 2.5	PASS
		VN	20	3.87	0.002081	± 2.5	PASS
		VN	30	-0.86	-0.000462	± 2.5	PASS
		VN	40	-1.77	-0.000952	± 2.5	PASS
		VN	50	4.67	0.002511	± 2.5	PASS
	MCH	VN	-30	0.23	0.000122	± 2.5	PASS
		VN	-20	4.47	0.002378	± 2.5	PASS
		VN	-10	0.12	0.000064	± 2.5	PASS
		VN	0	-0.55	-0.000293	± 2.5	PASS
		VN	10	2.91	0.001548	± 2.5	PASS
		VN	20	0.31	0.000165	± 2.5	PASS
		VN	30	0.46	0.000245	± 2.5	PASS
		VN	40	-1.43	-0.000761	± 2.5	PASS
		VN	50	4.1	0.002181	± 2.5	PASS
	HCH	VN	-30	-0.55	-0.000289	± 2.5	PASS
		VN	-20	-1.99	-0.001047	± 2.5	PASS
		VN	-10	1.66	0.000874	± 2.5	PASS
		VN	0	-0.9	-0.000474	± 2.5	PASS
		VN	10	1.2	0.000632	± 2.5	PASS
		VN	20	3.55	0.001868	± 2.5	PASS
		VN	30	1.4	0.000737	± 2.5	PASS
		VN	40	3.63	0.001911	± 2.5	PASS
		VN	50	2.42	0.001274	± 2.5	PASS