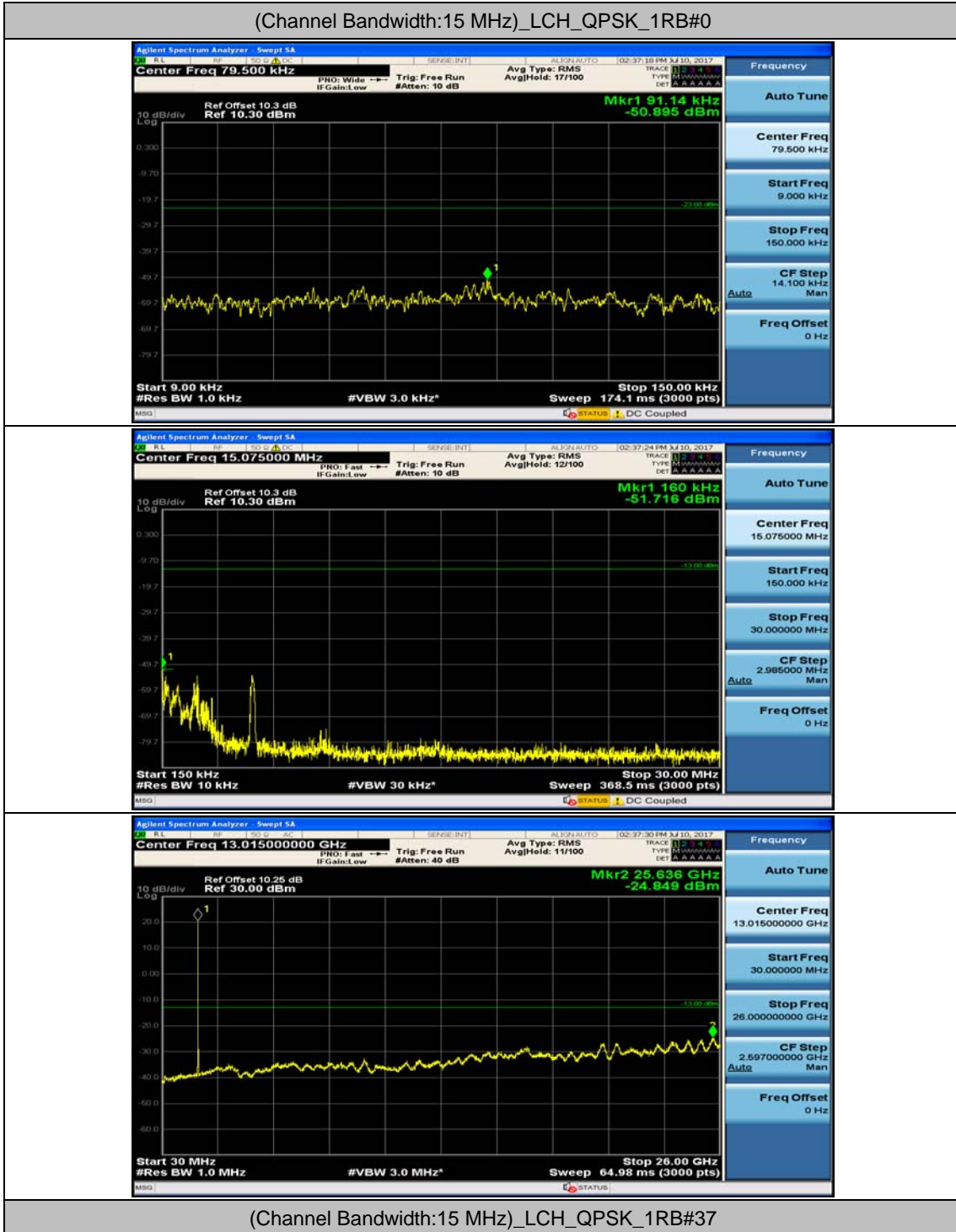
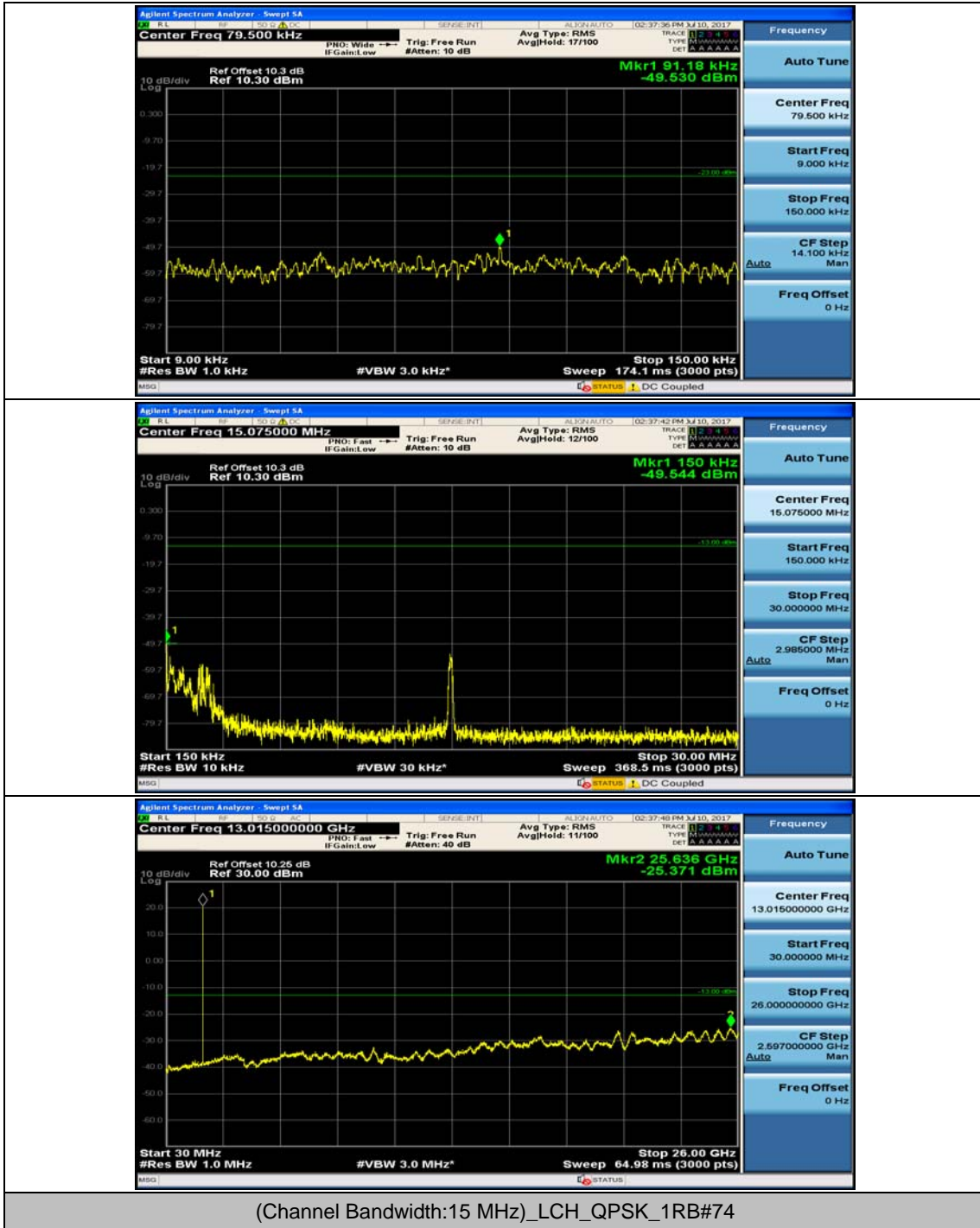
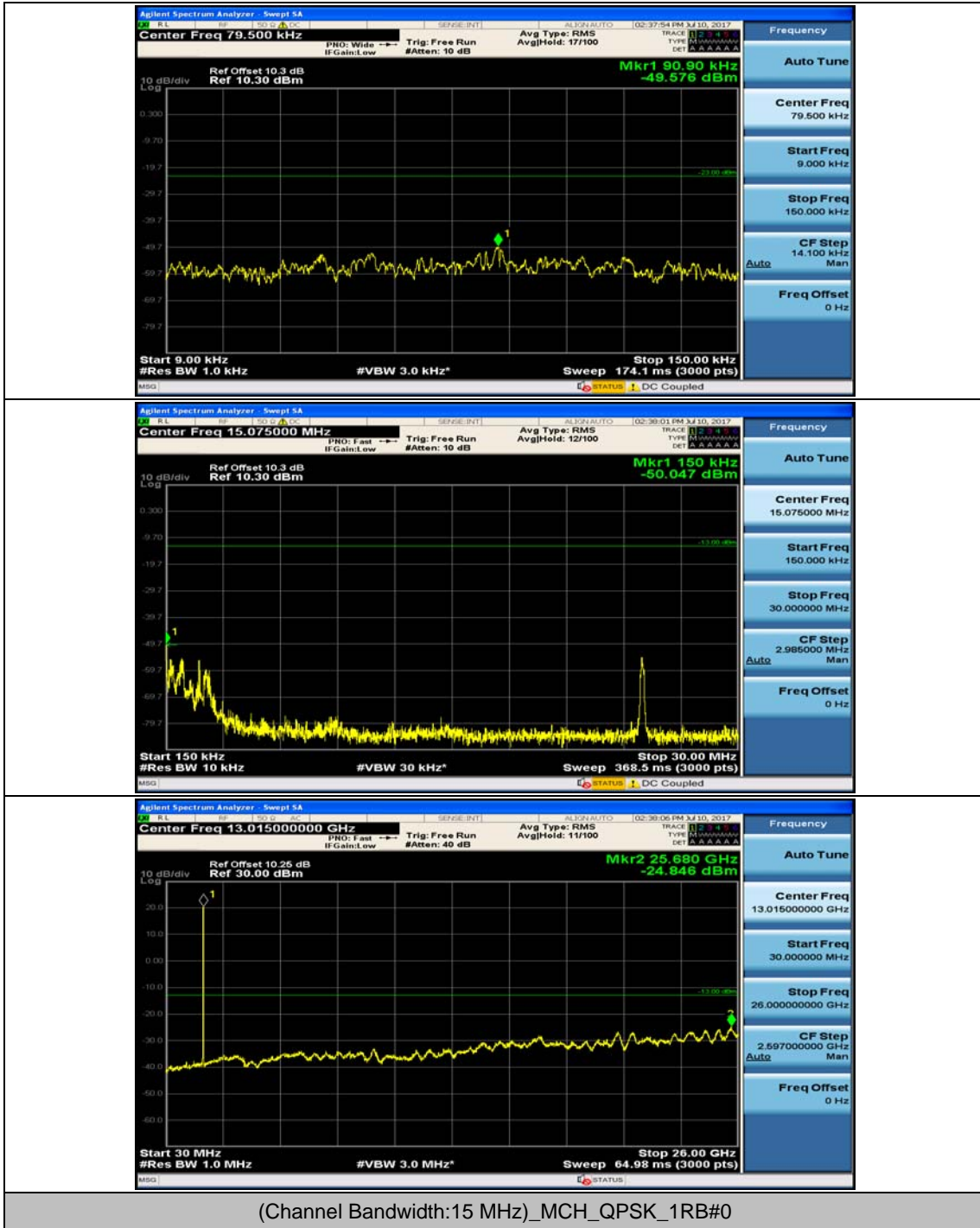


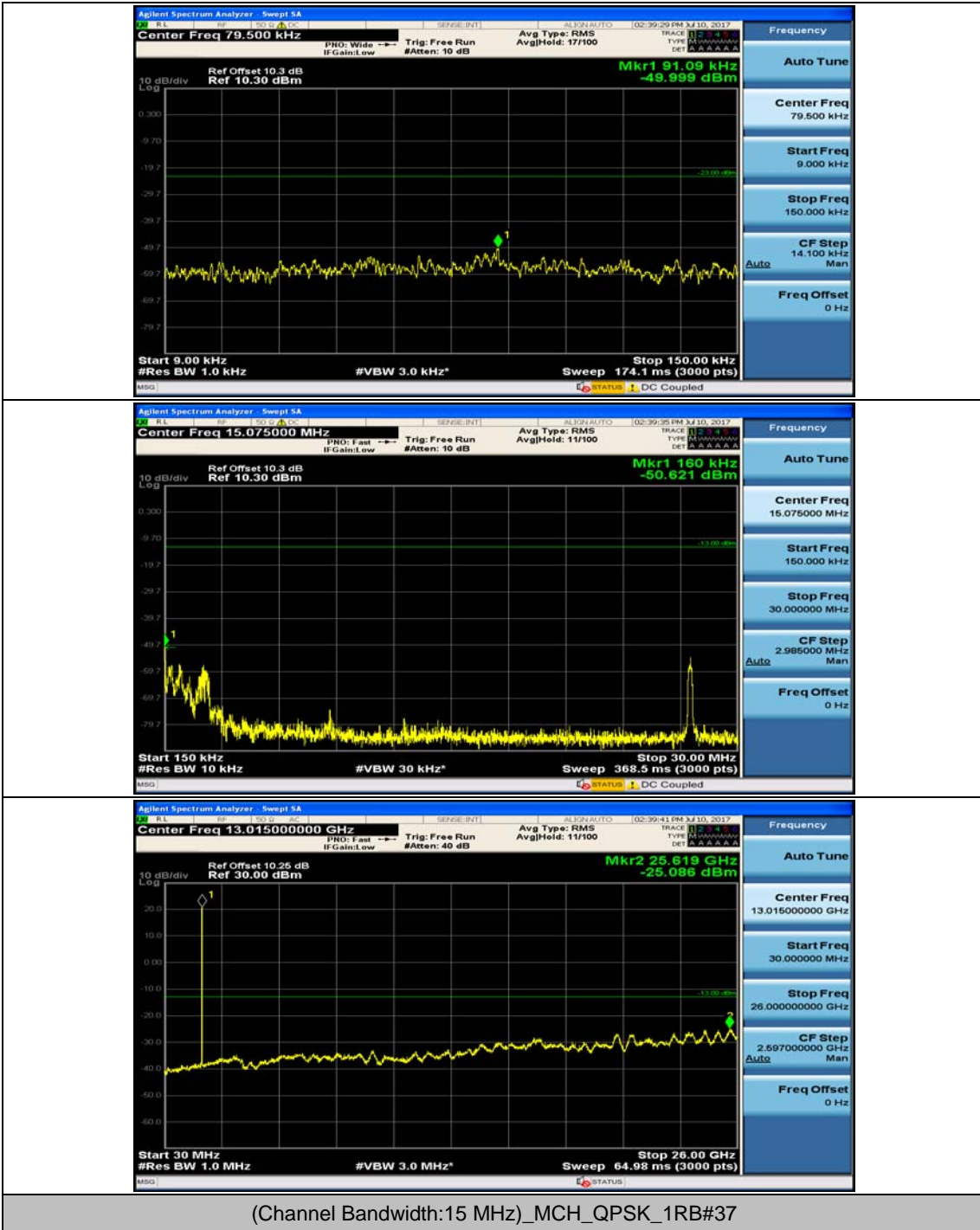
### Channel Bandwidth: 15 MHz

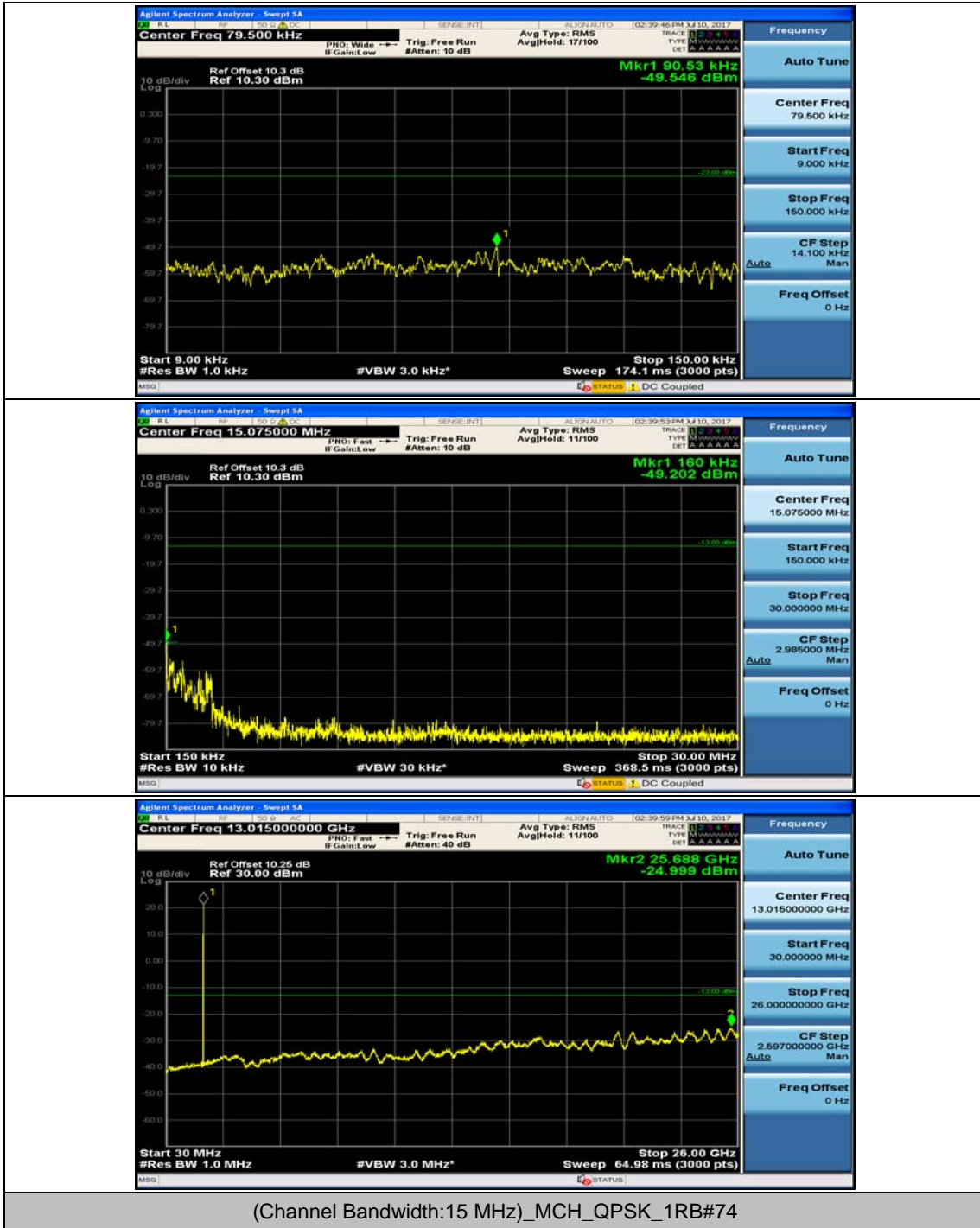


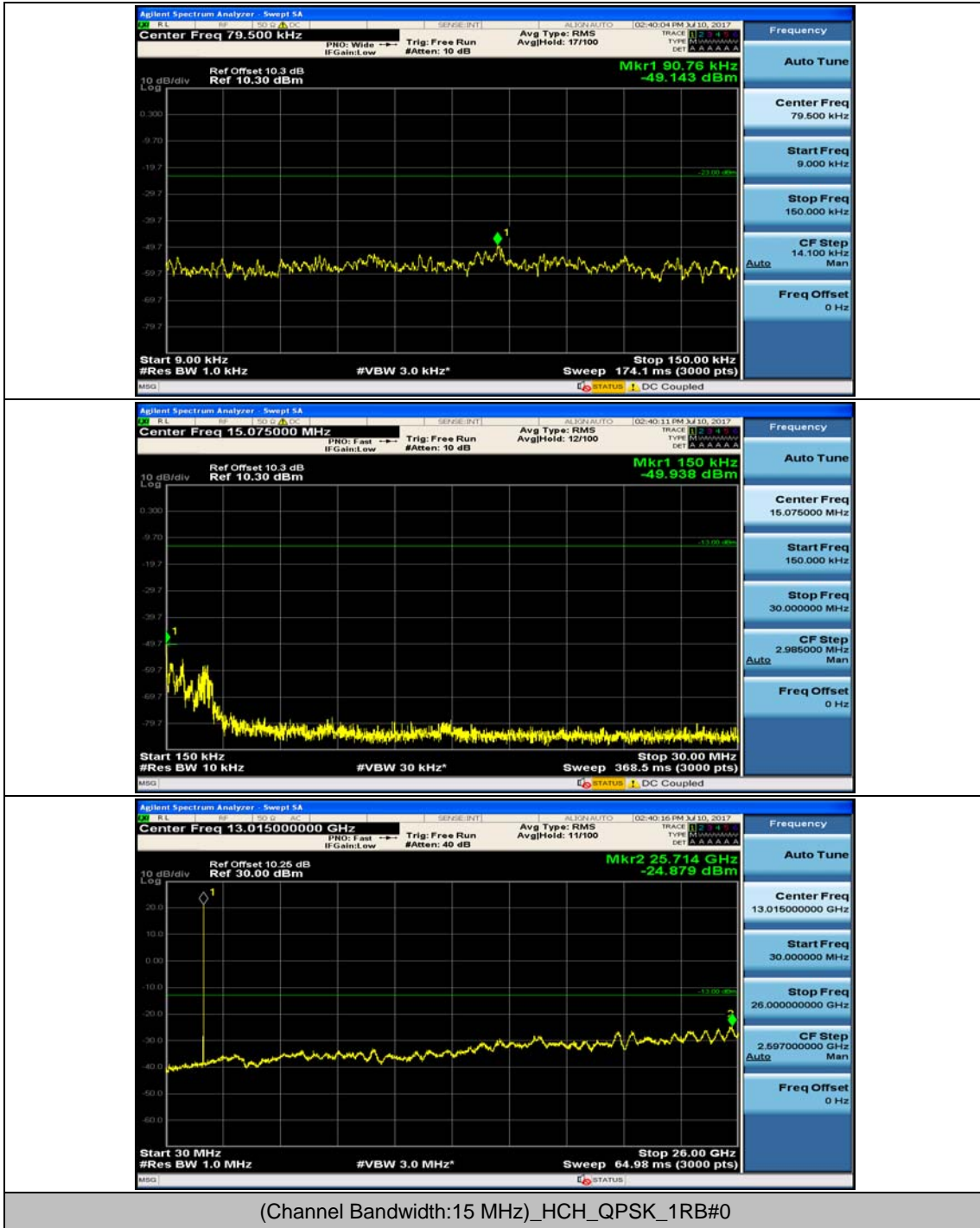


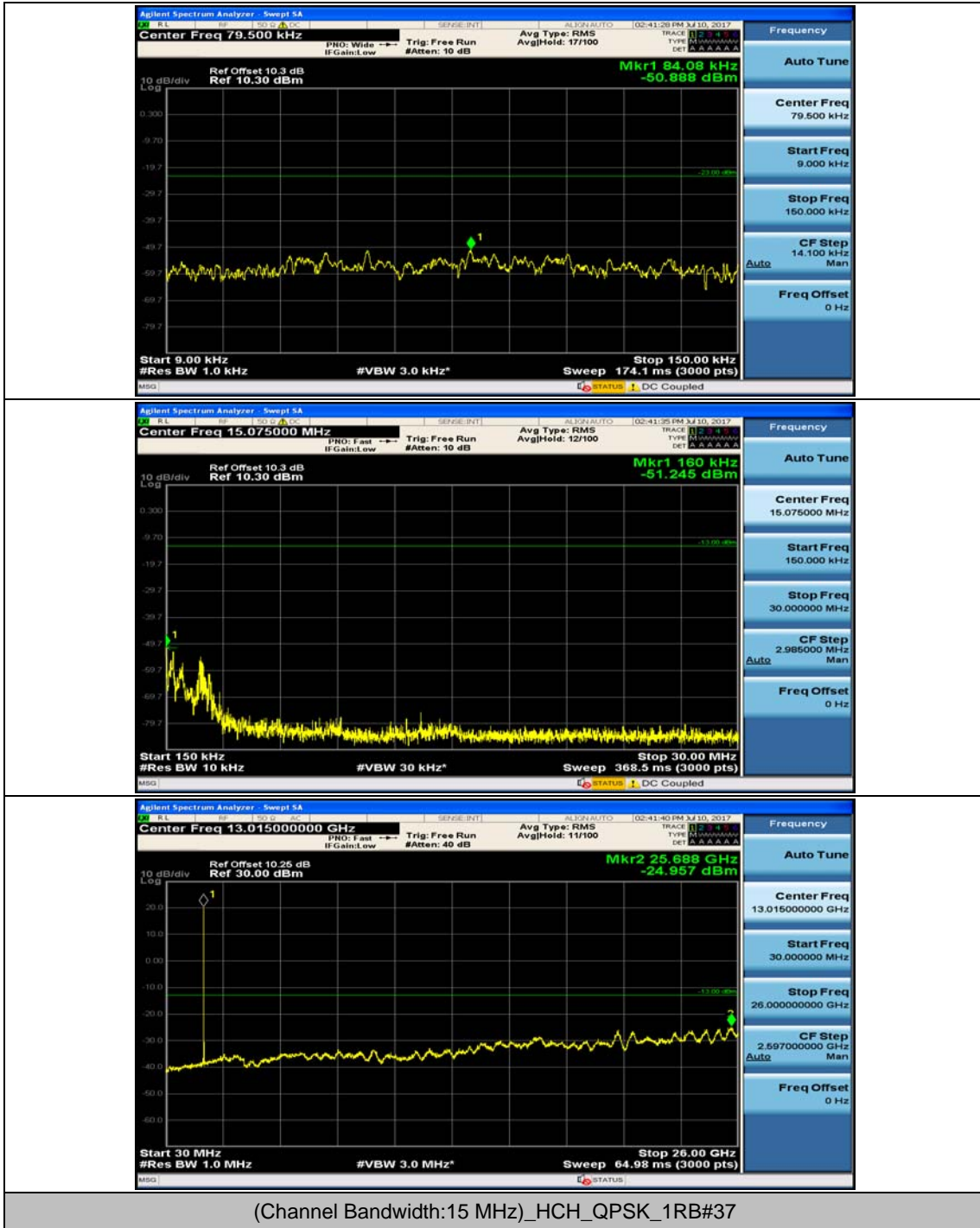


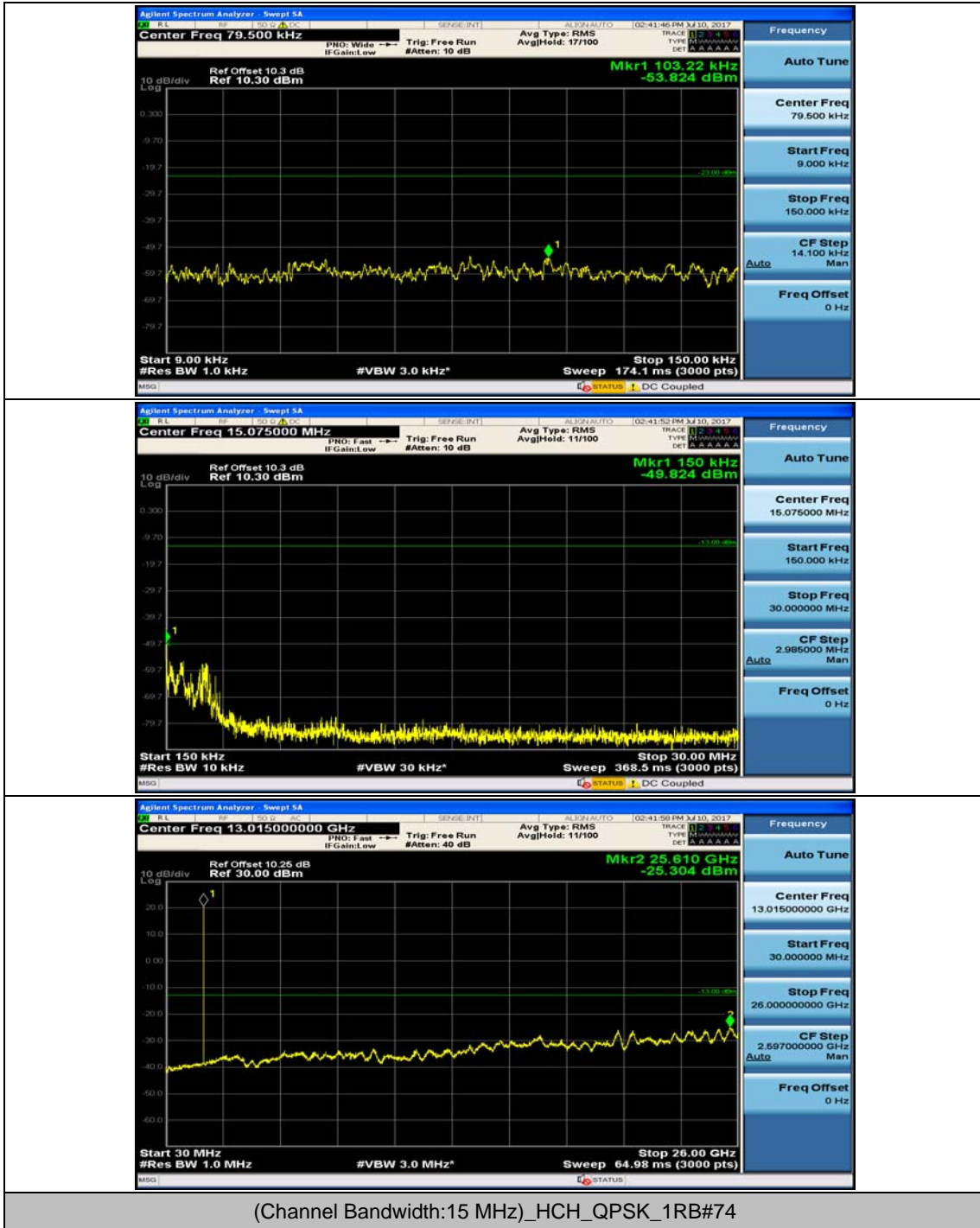


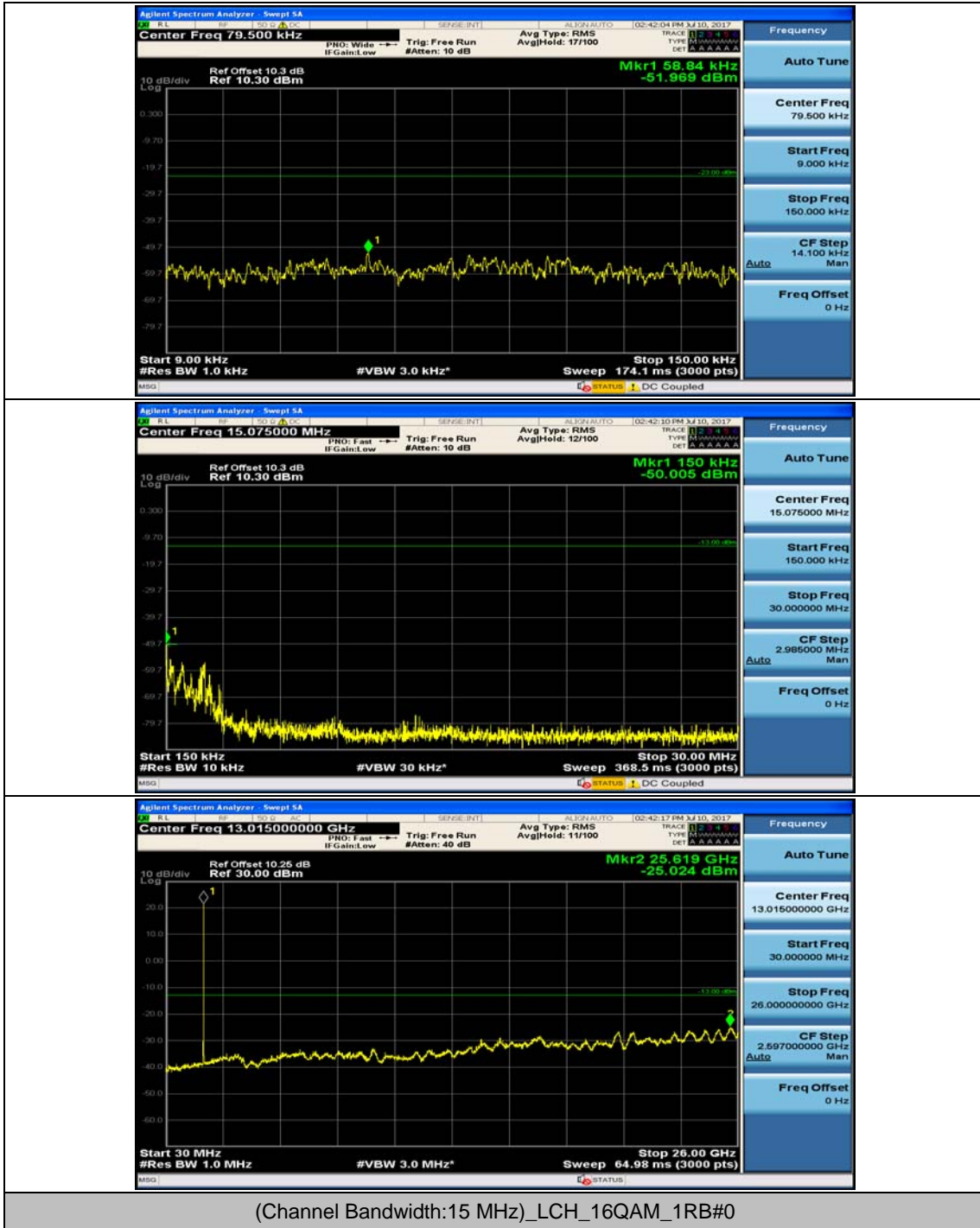


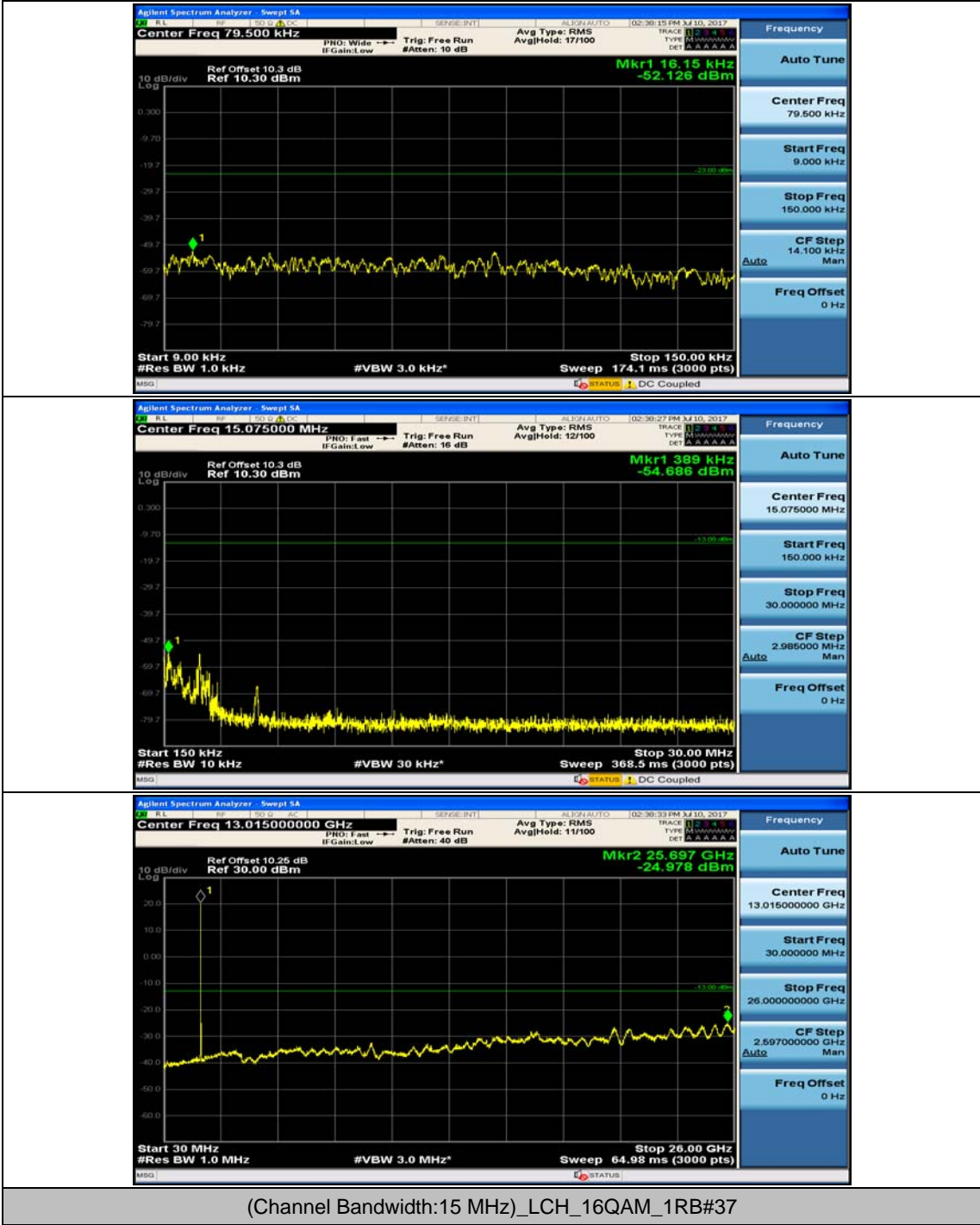




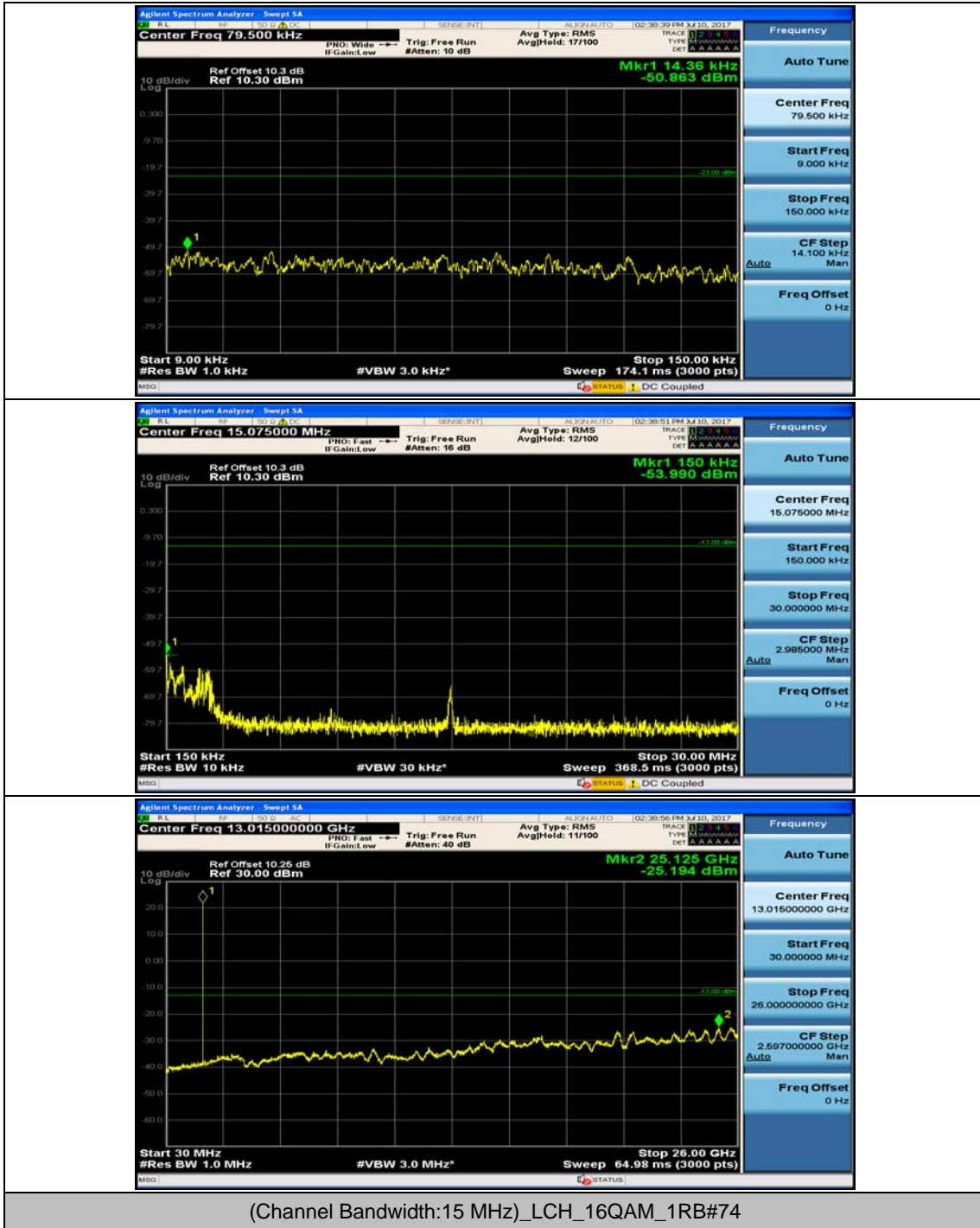


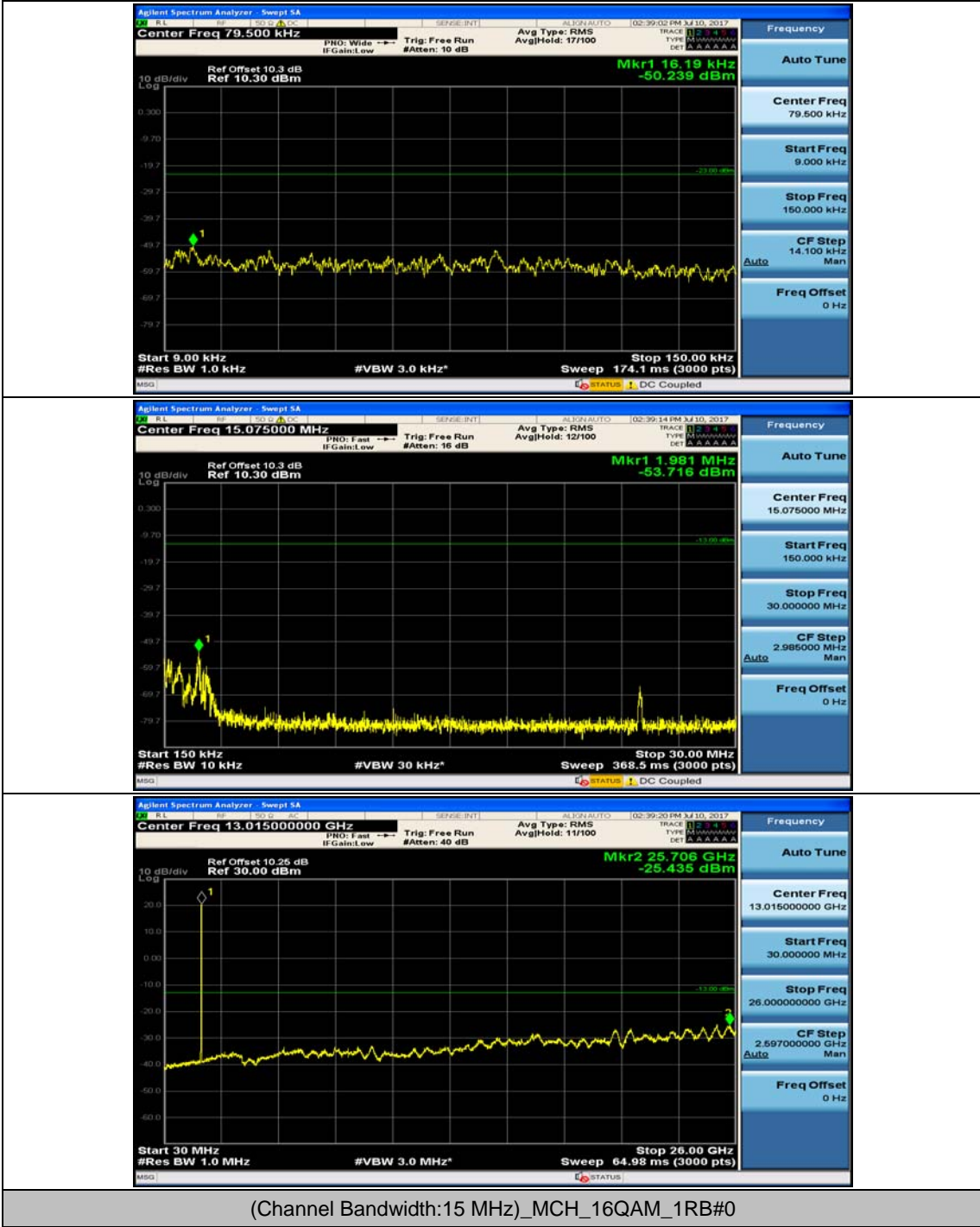


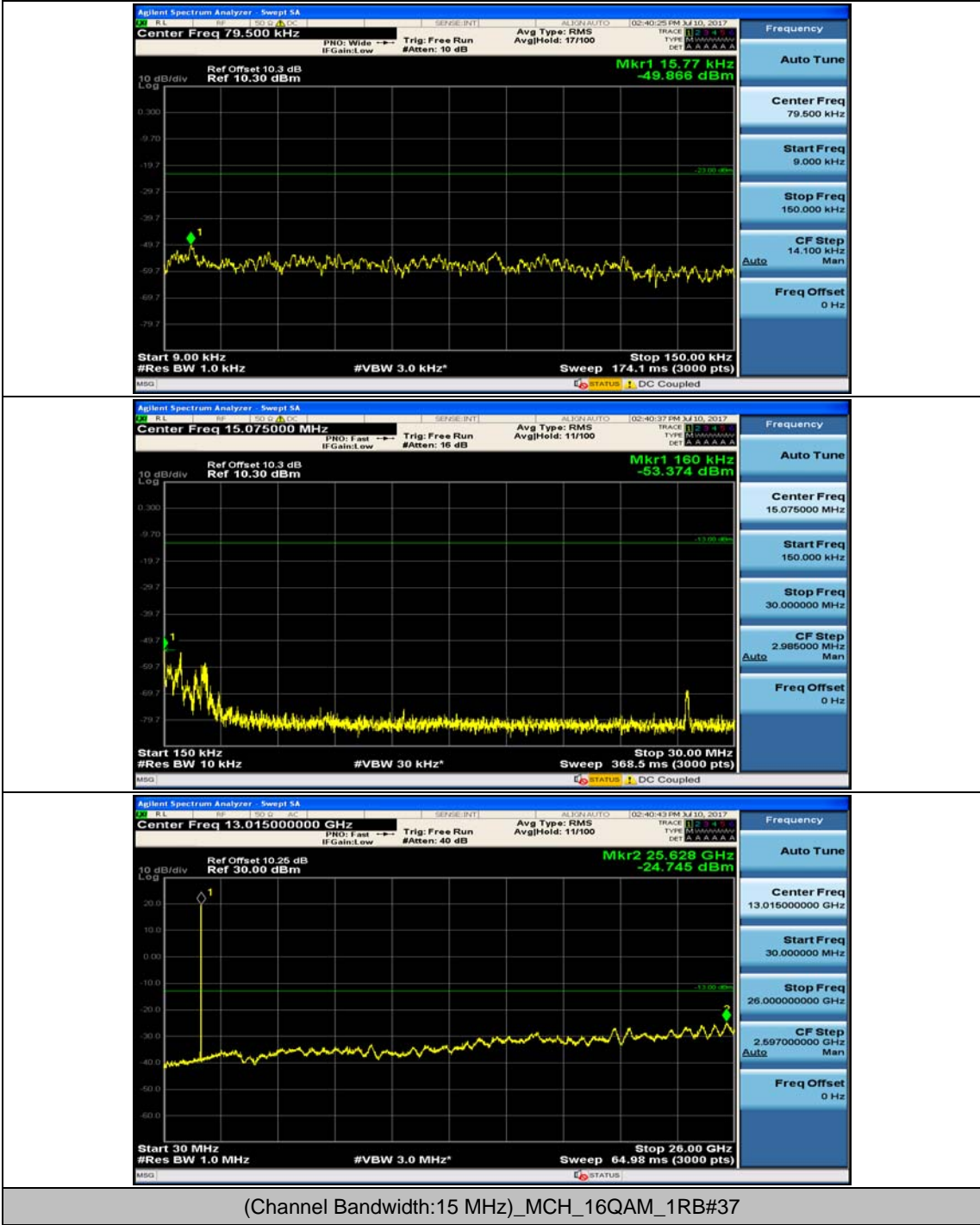


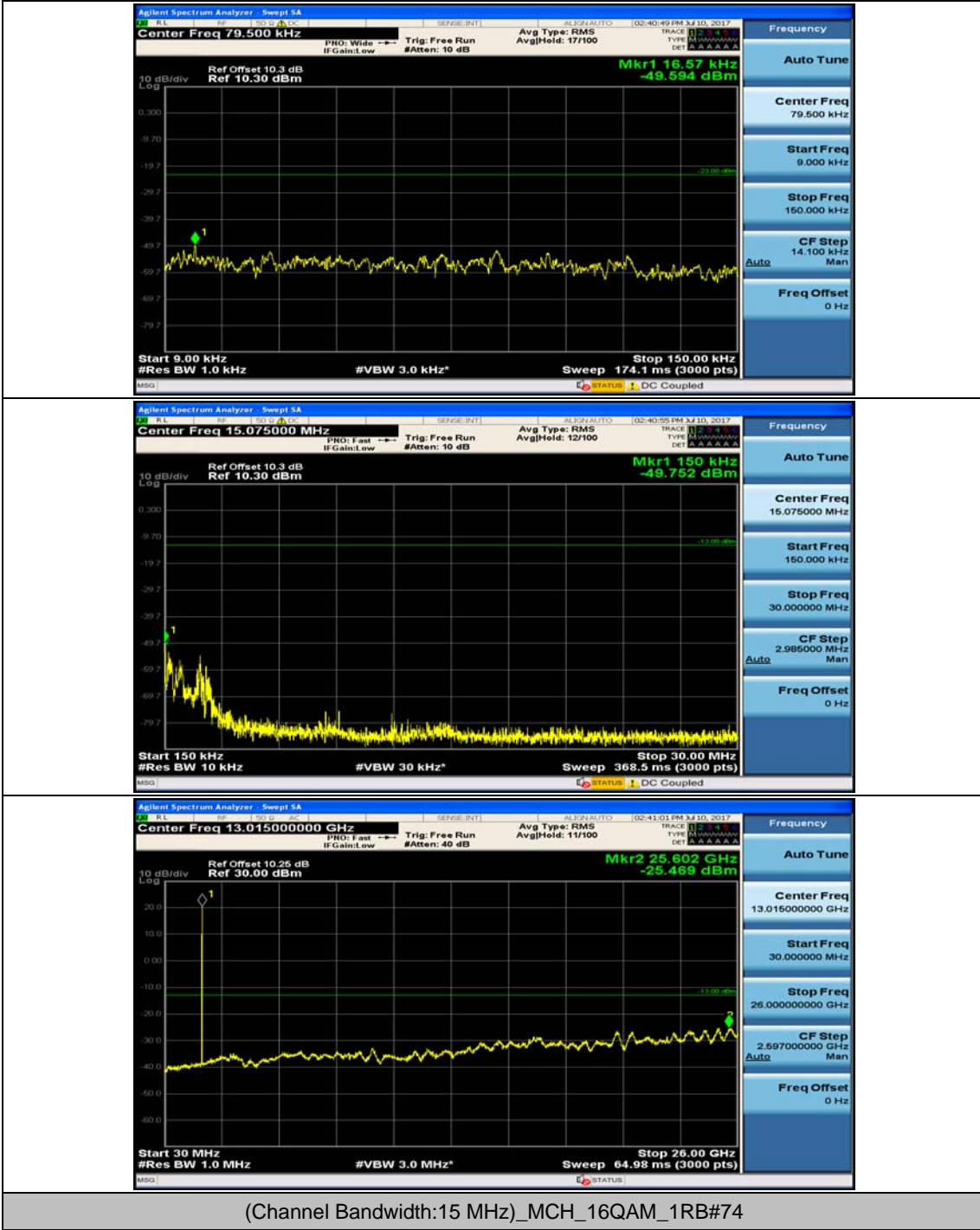


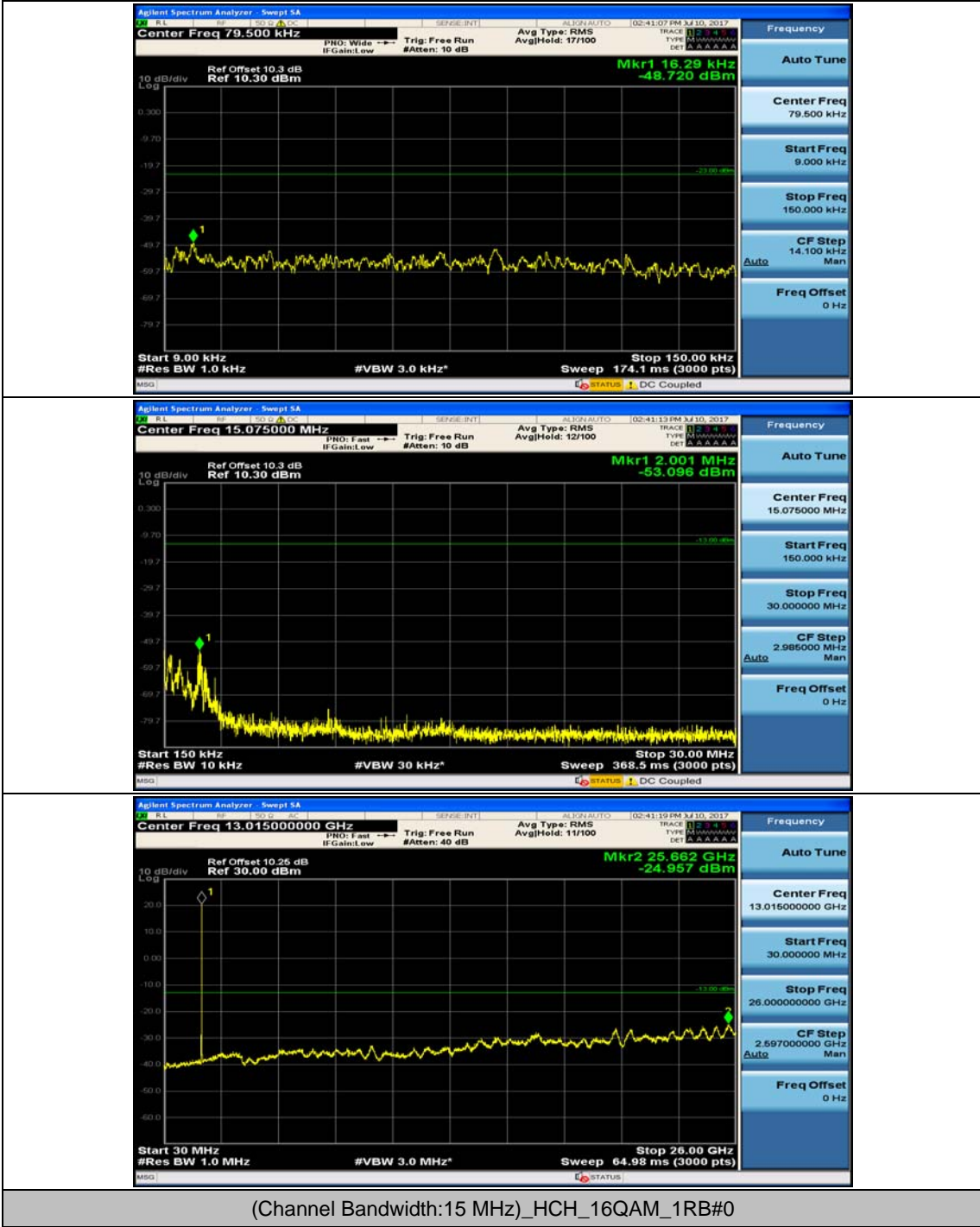


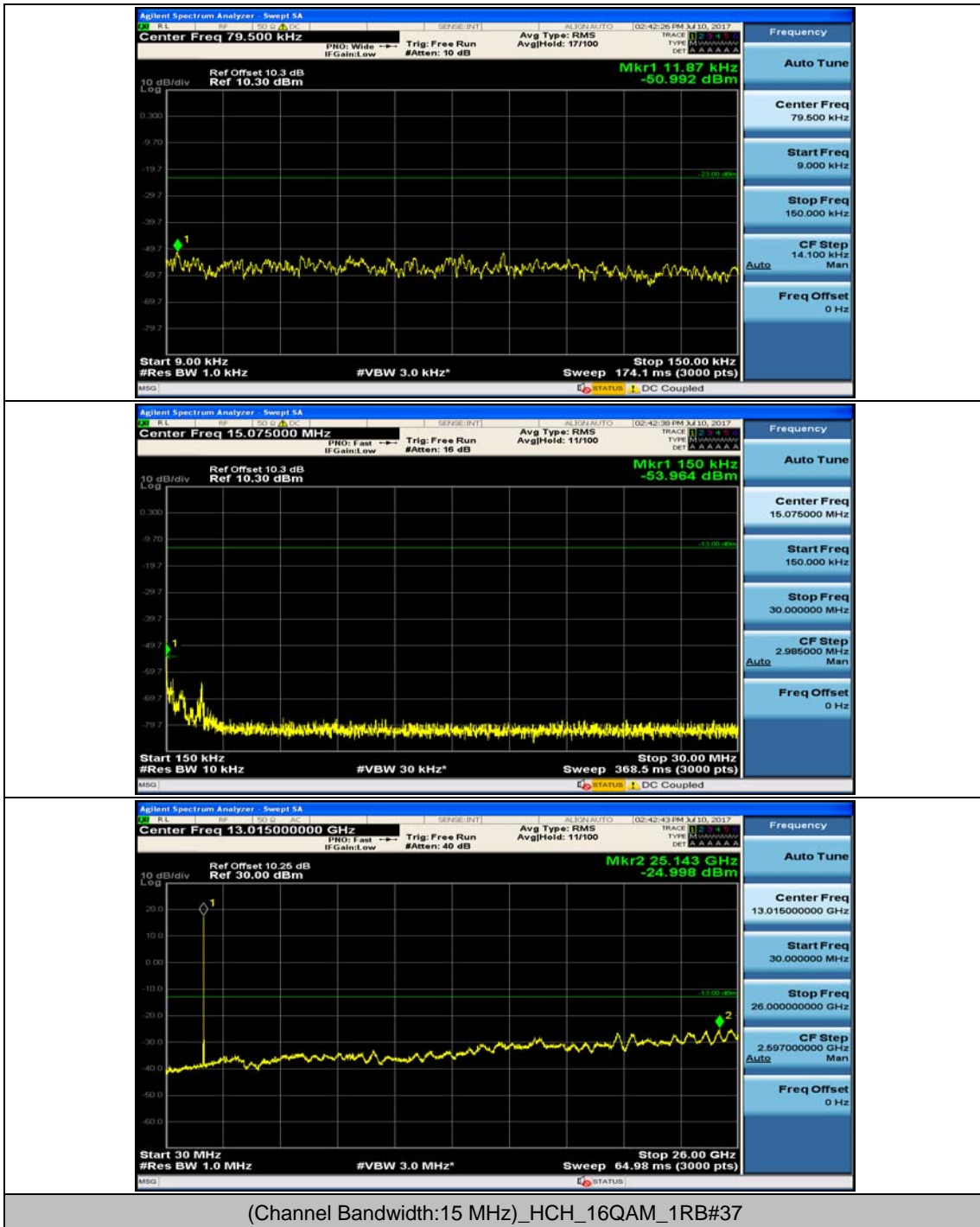


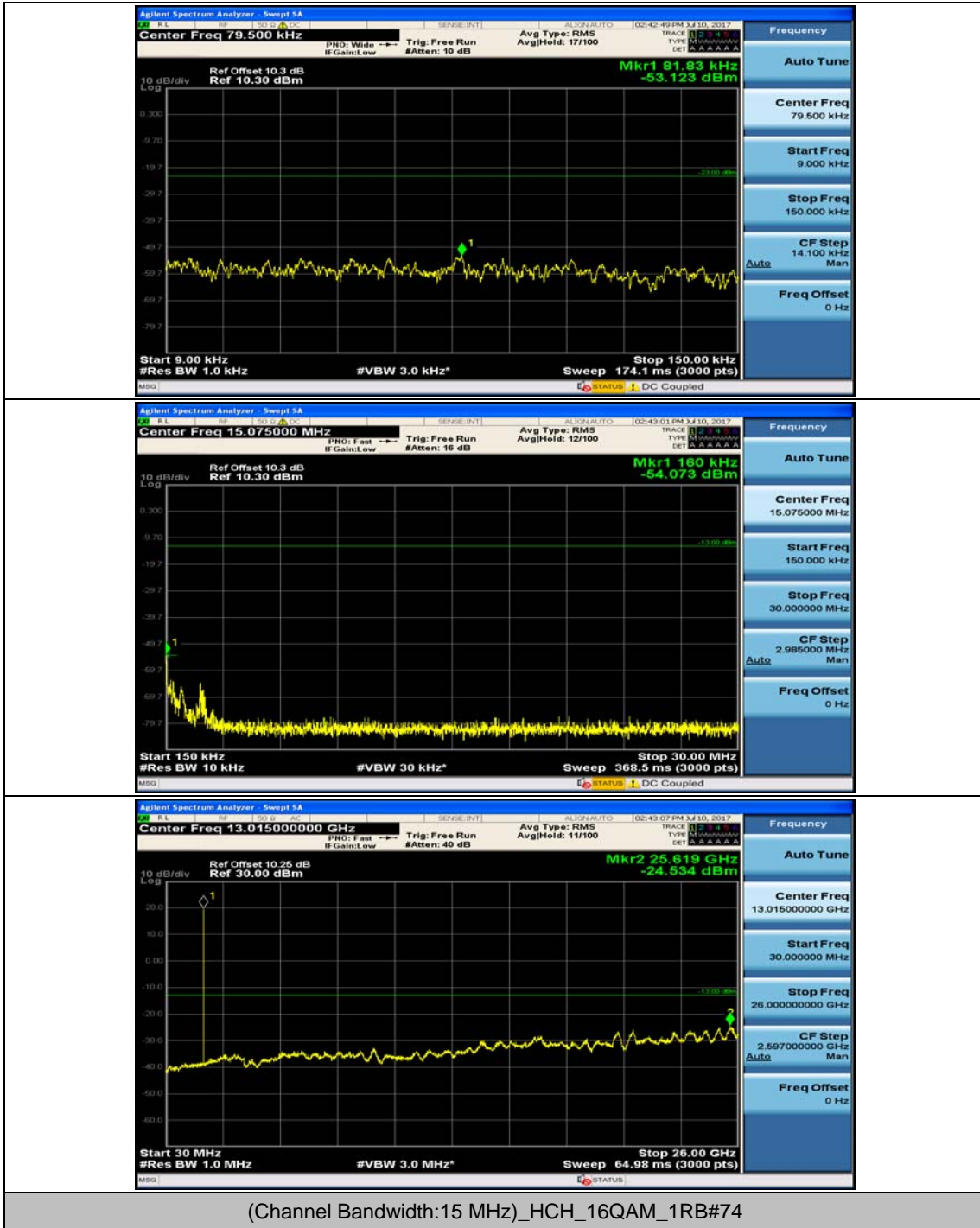


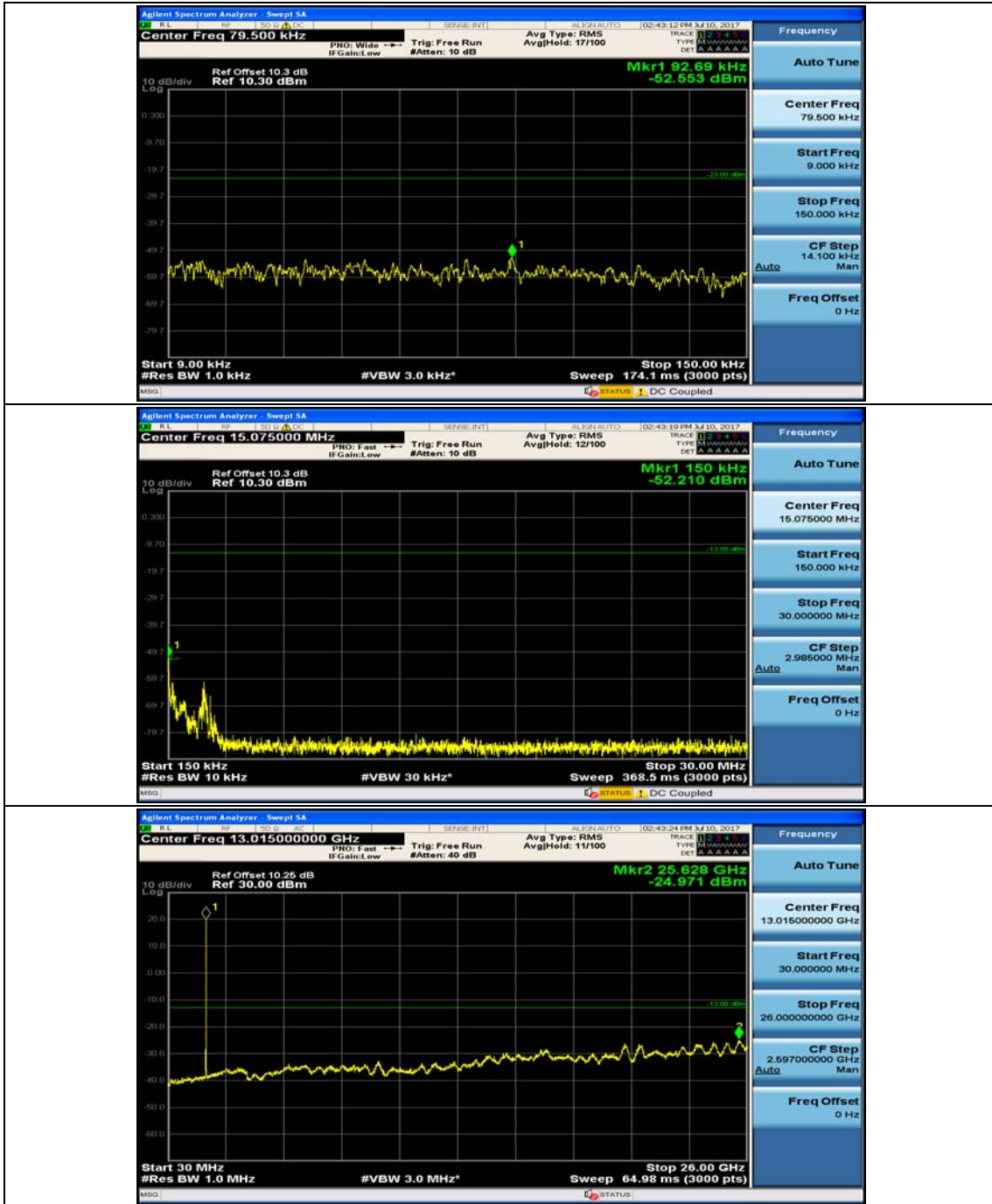






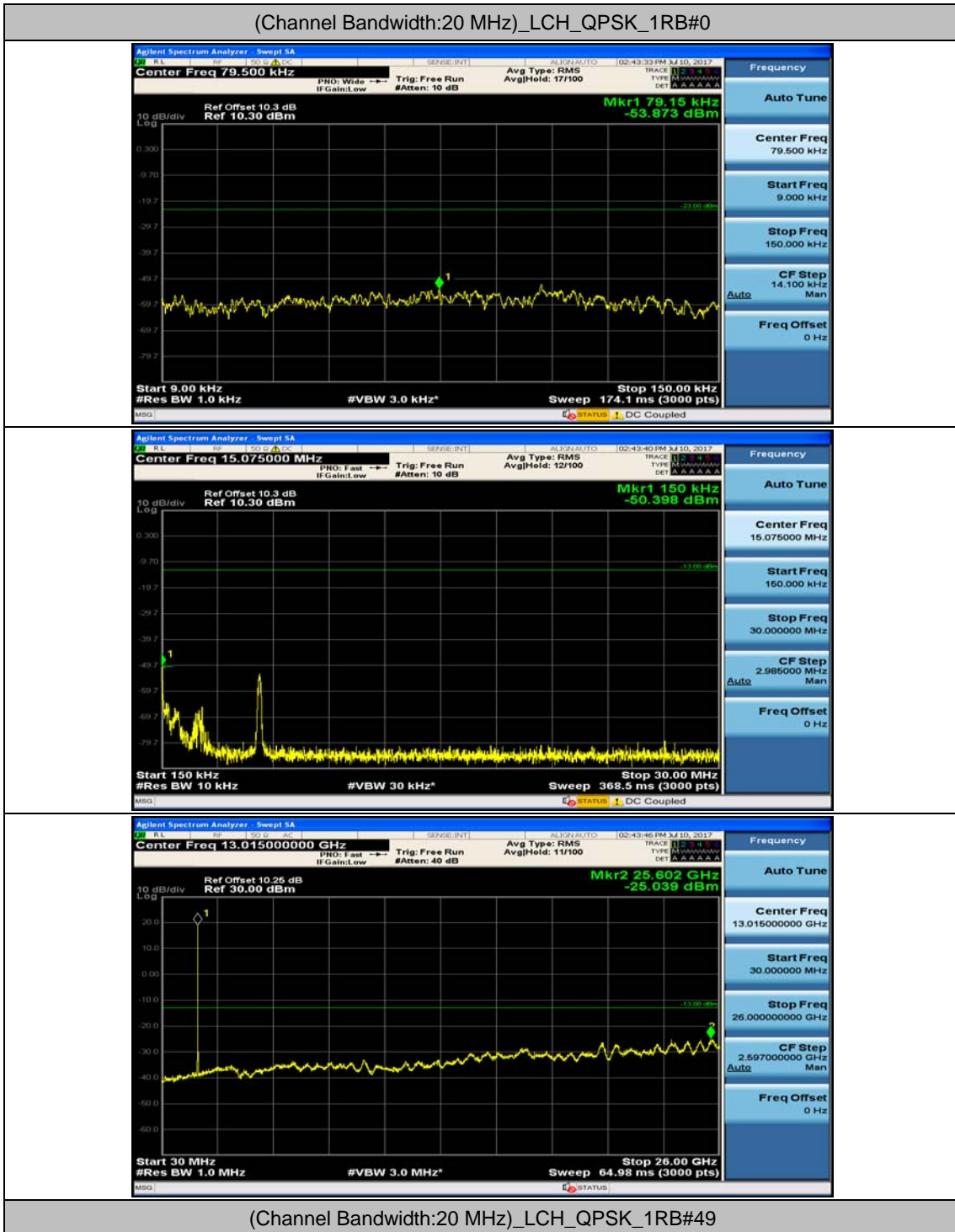


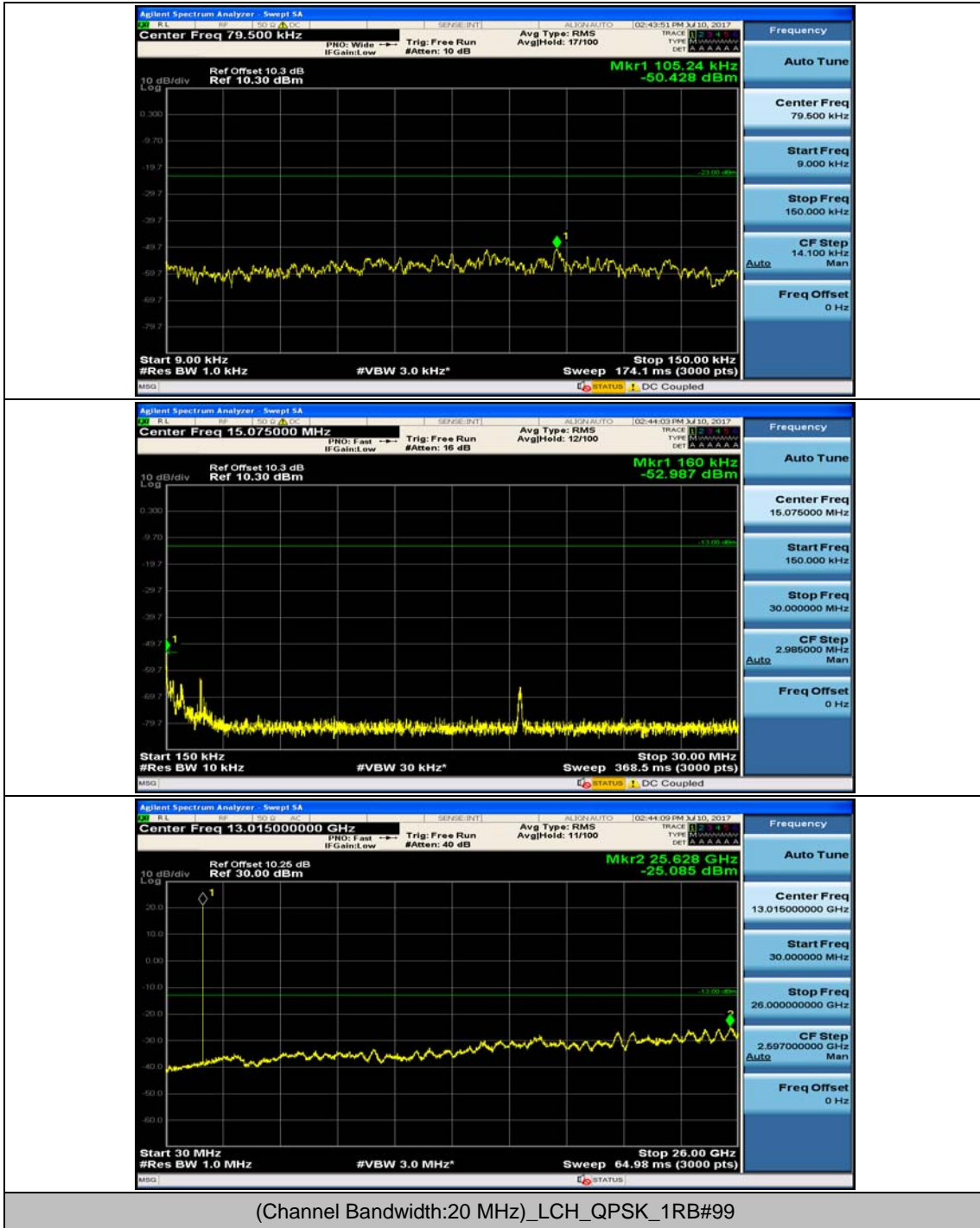


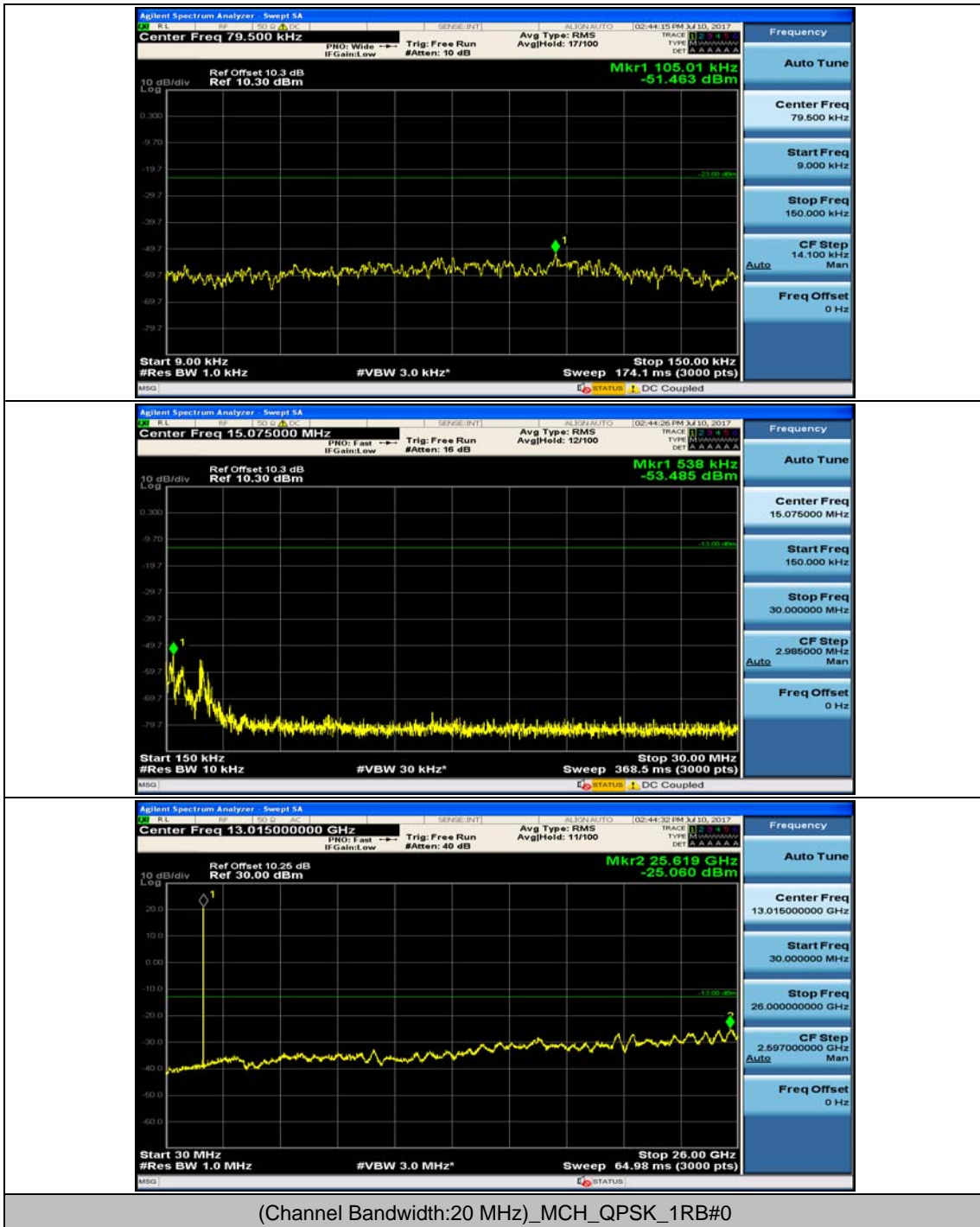


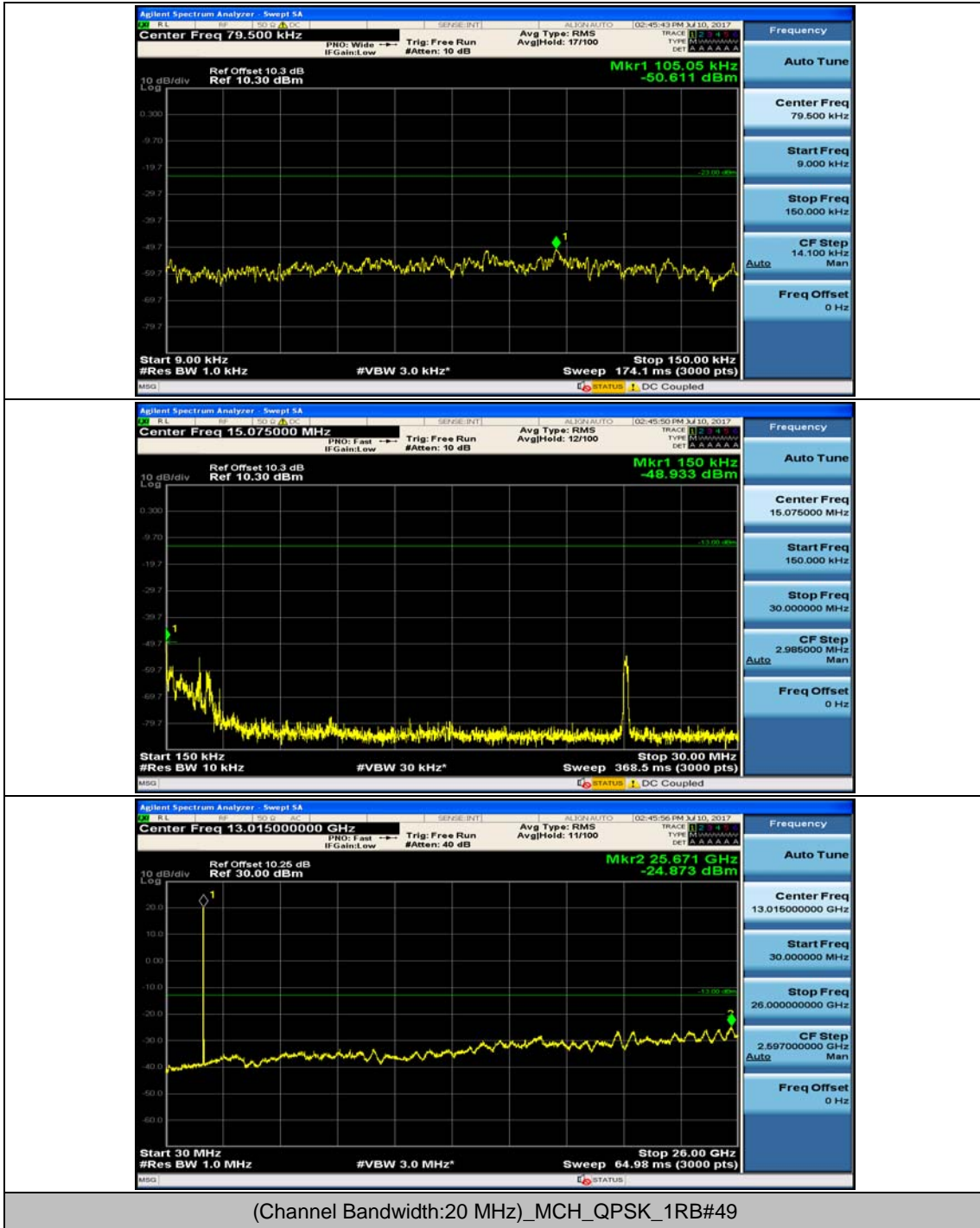


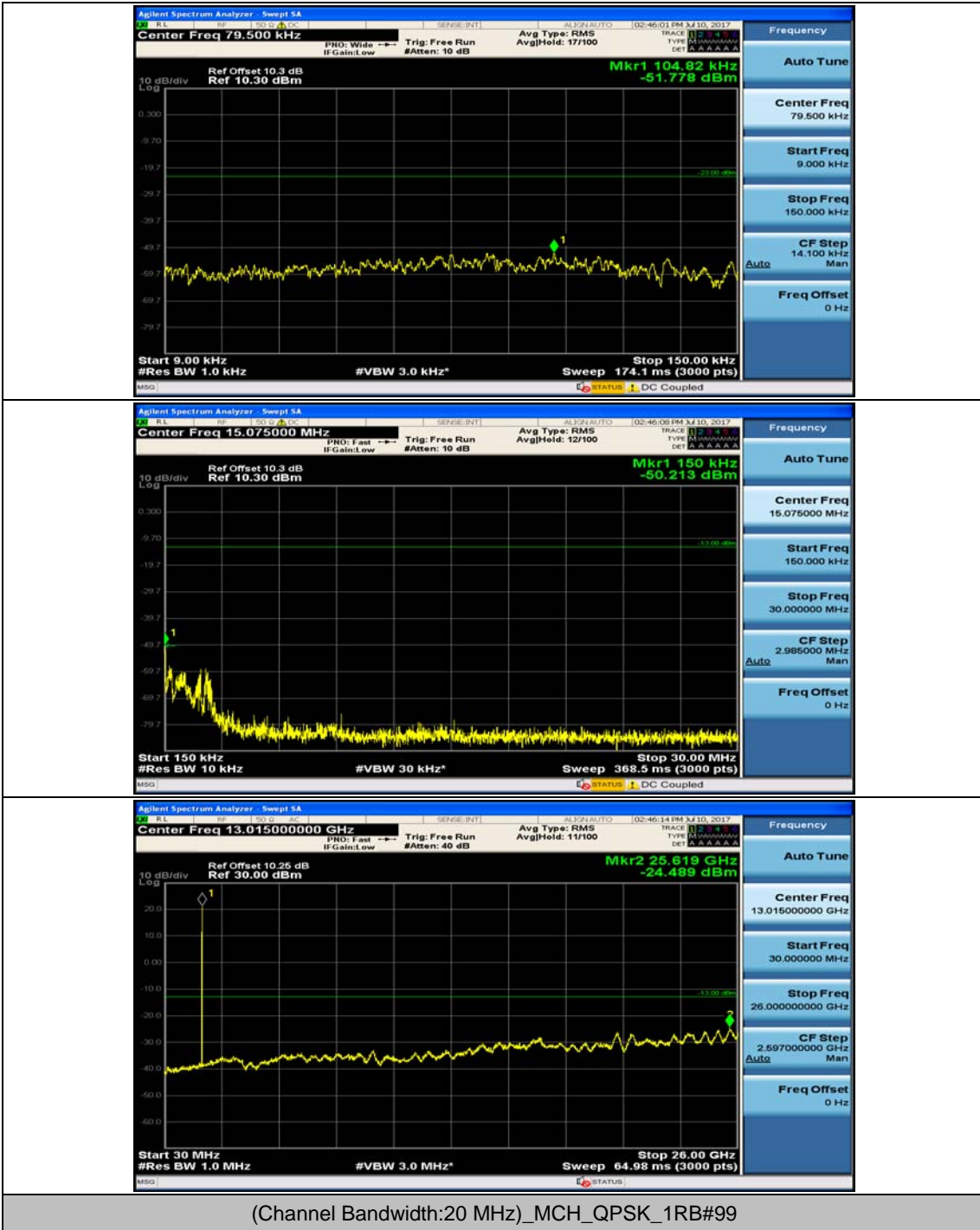
### Channel Bandwidth: 20 MHz

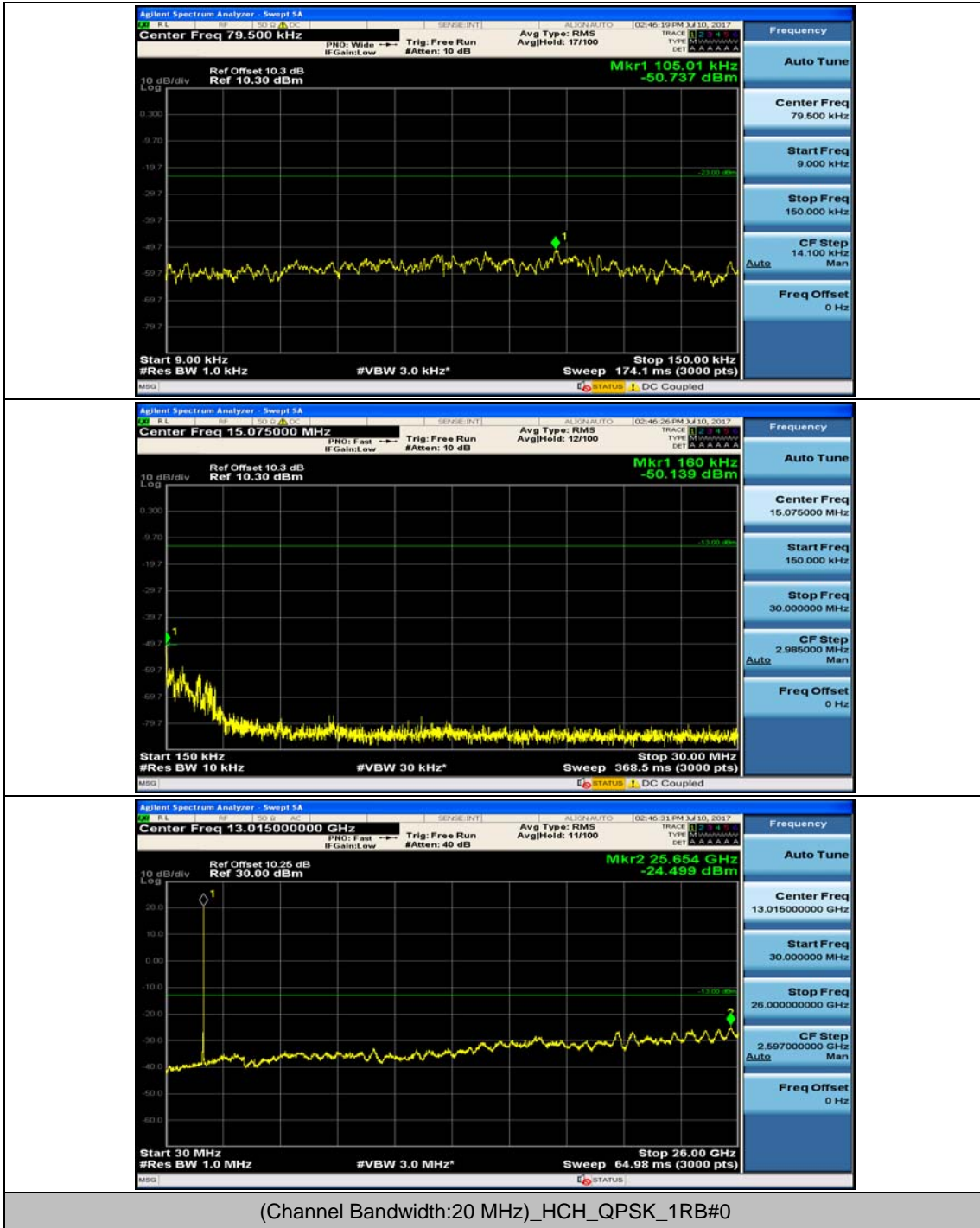


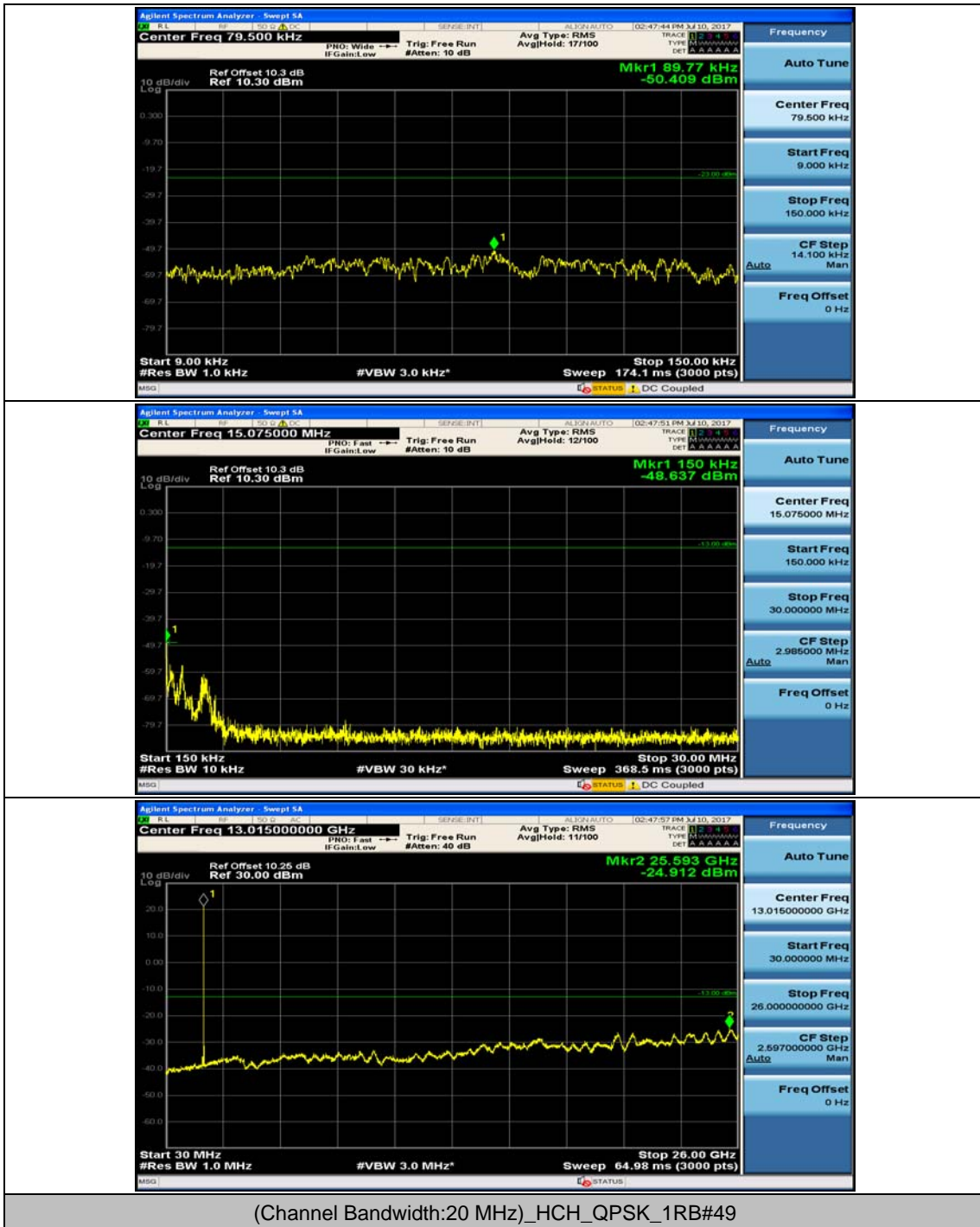


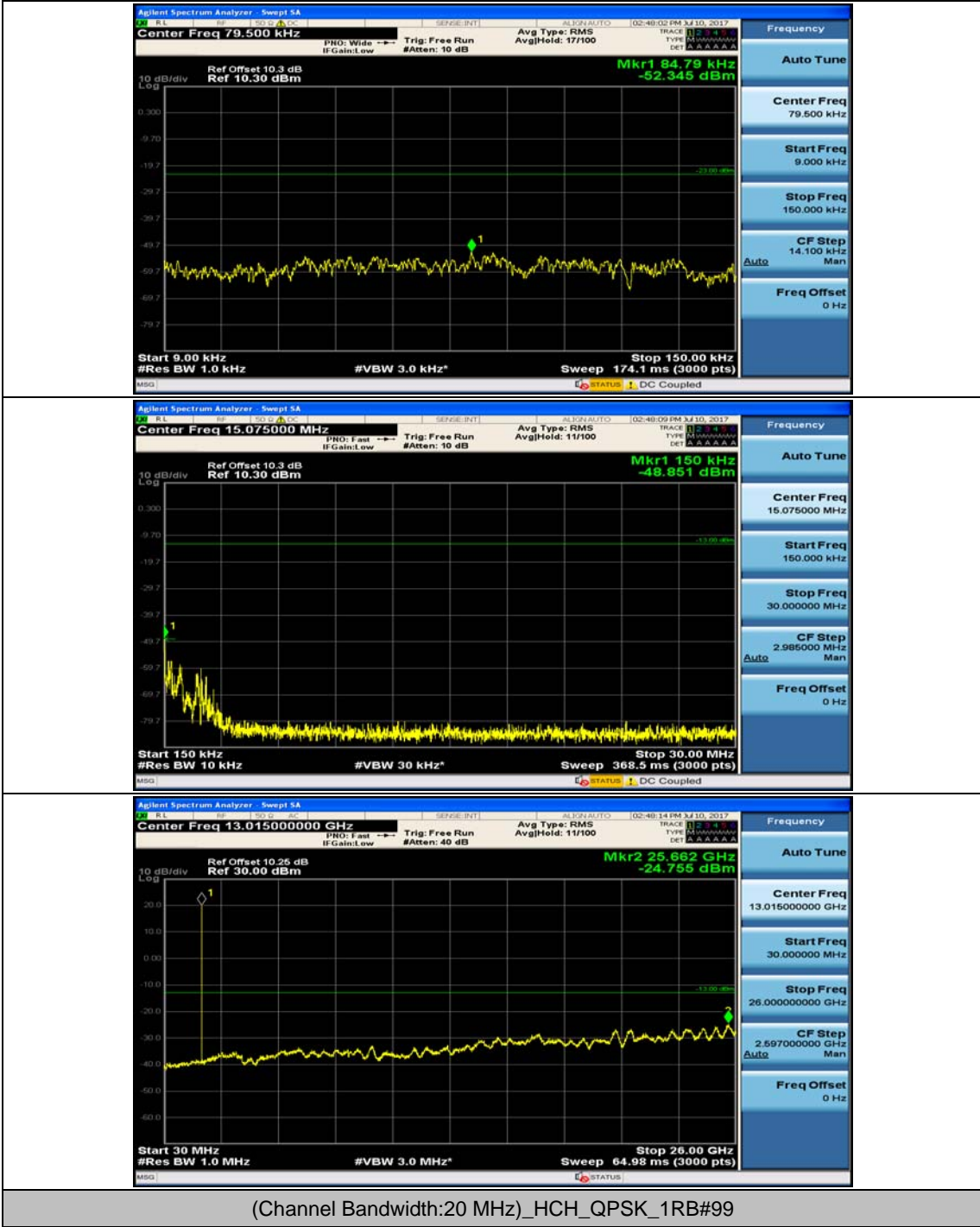




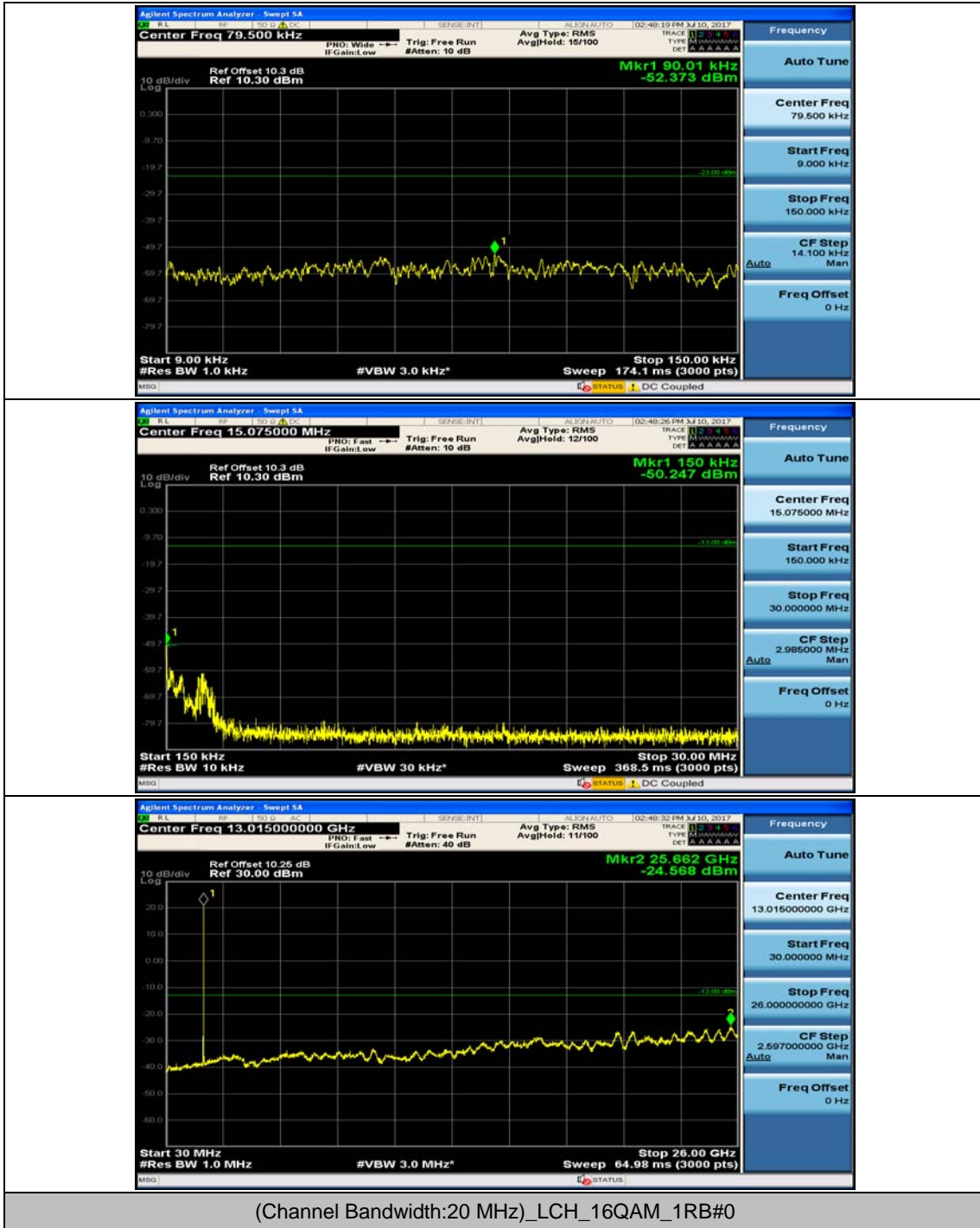


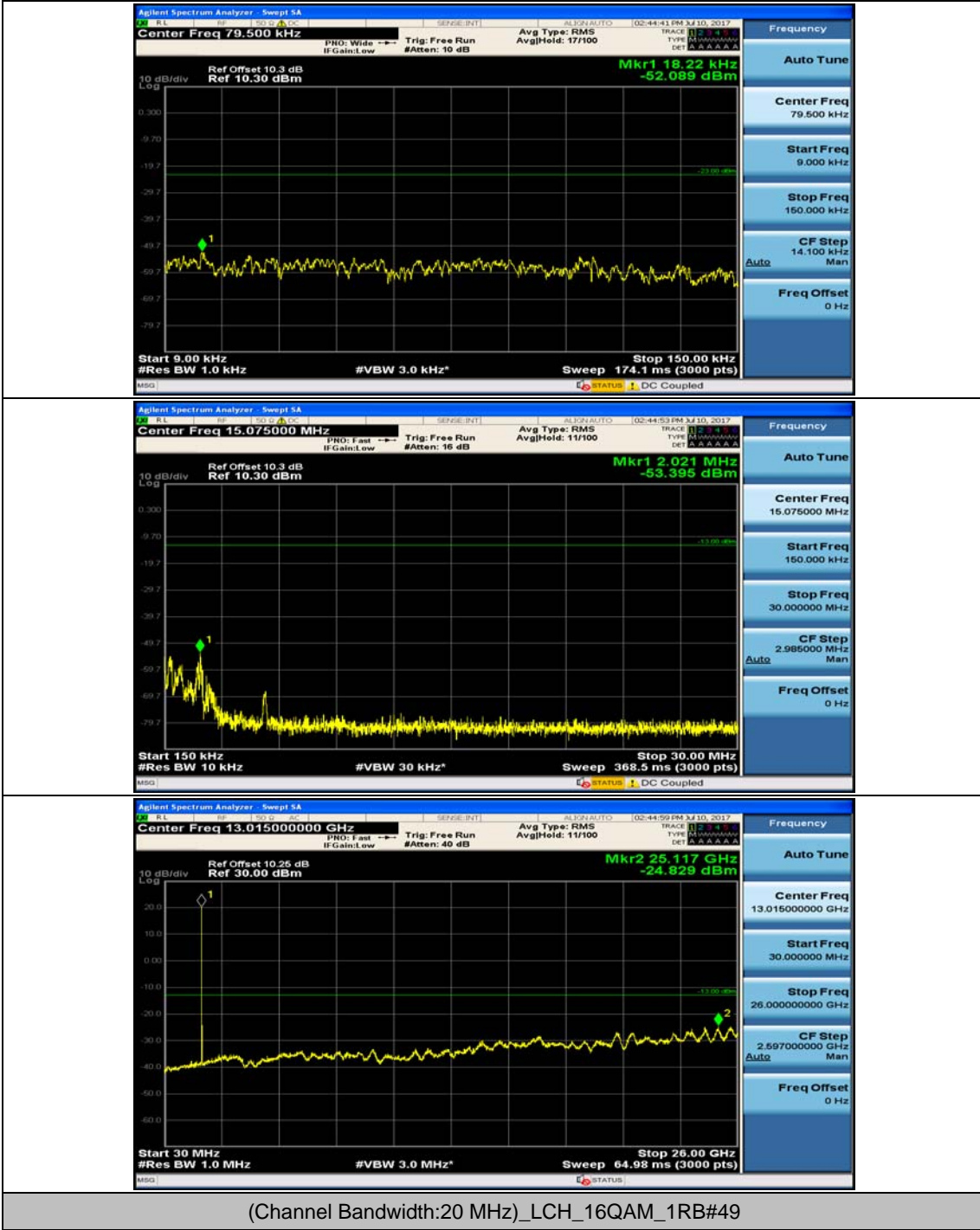


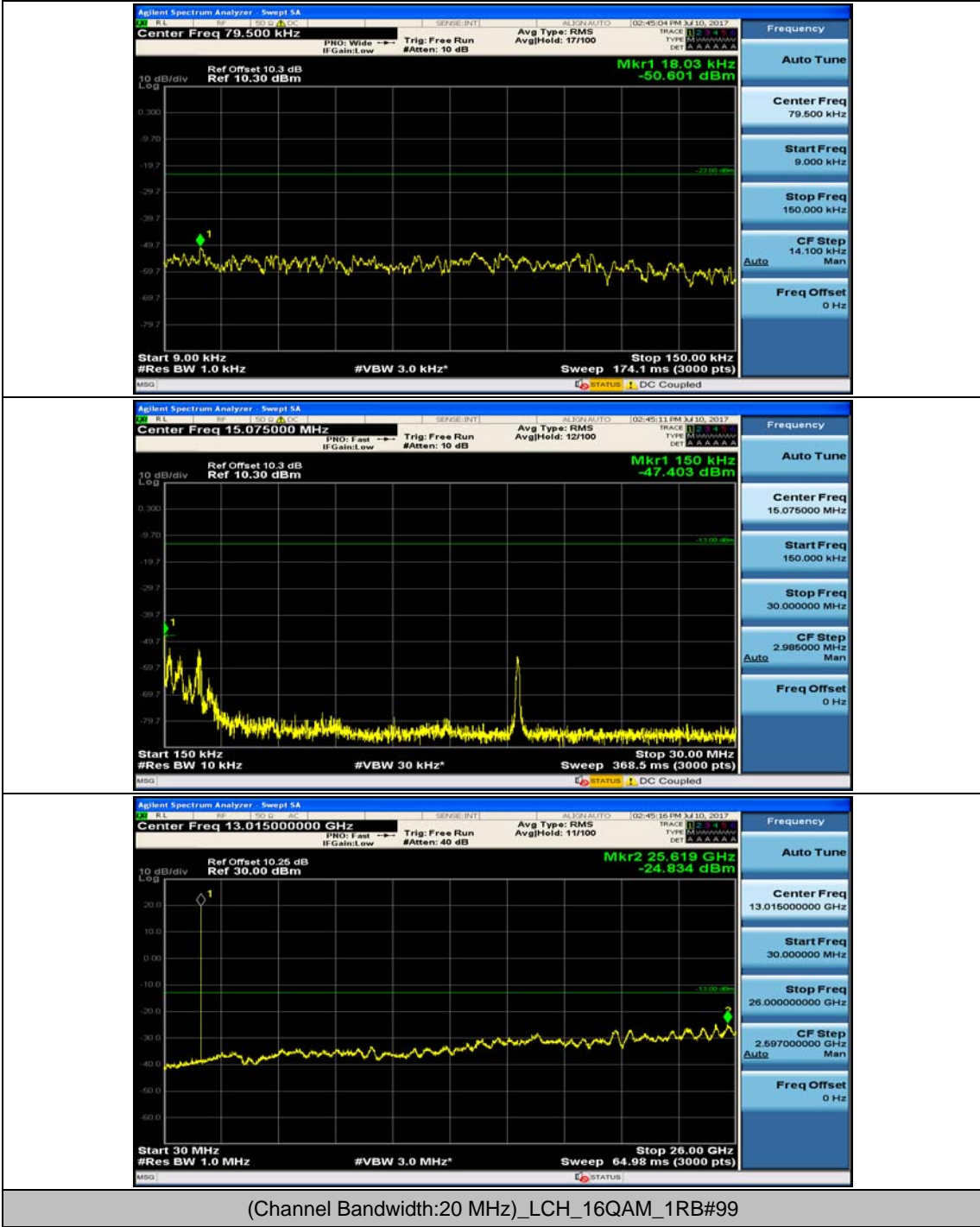


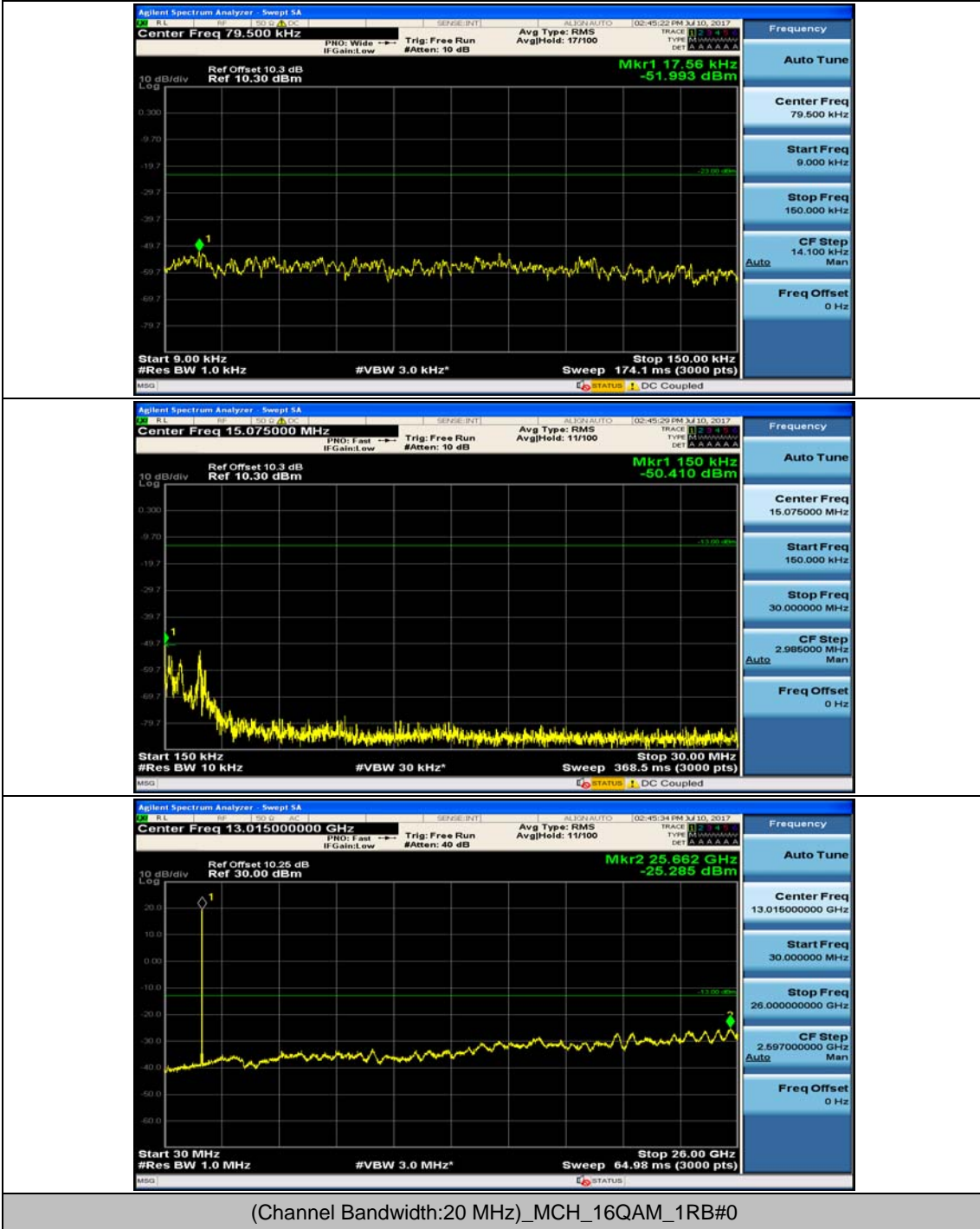


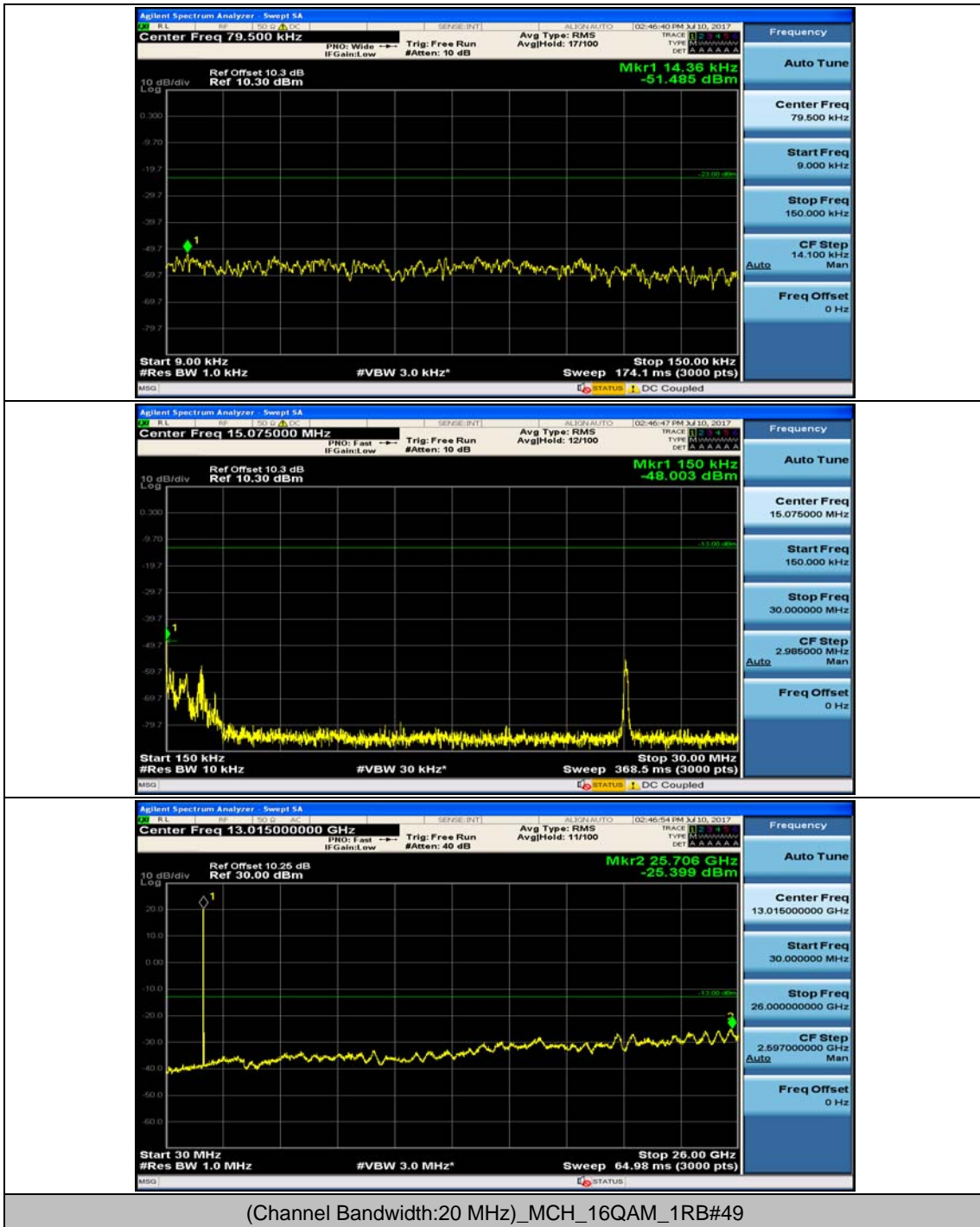


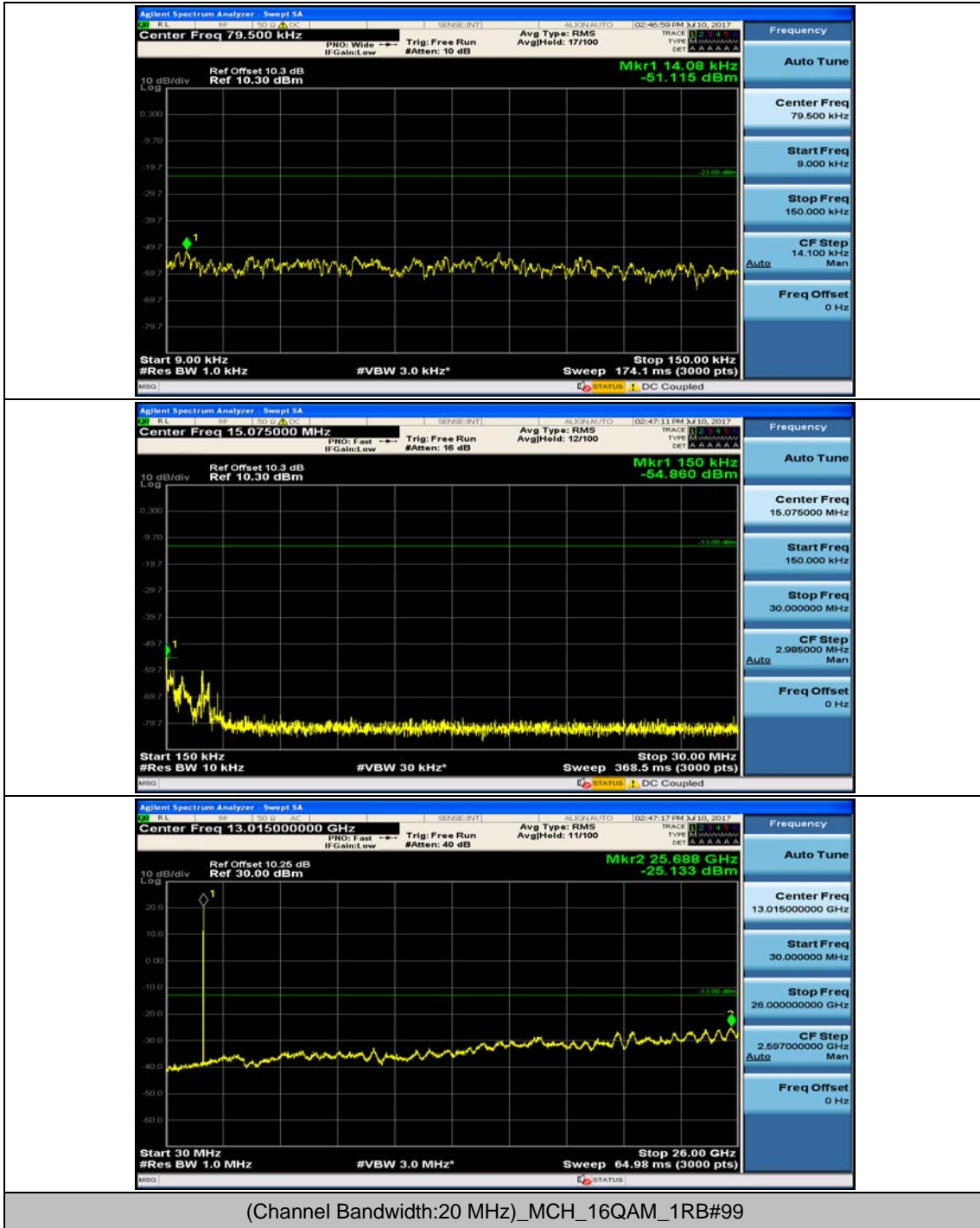


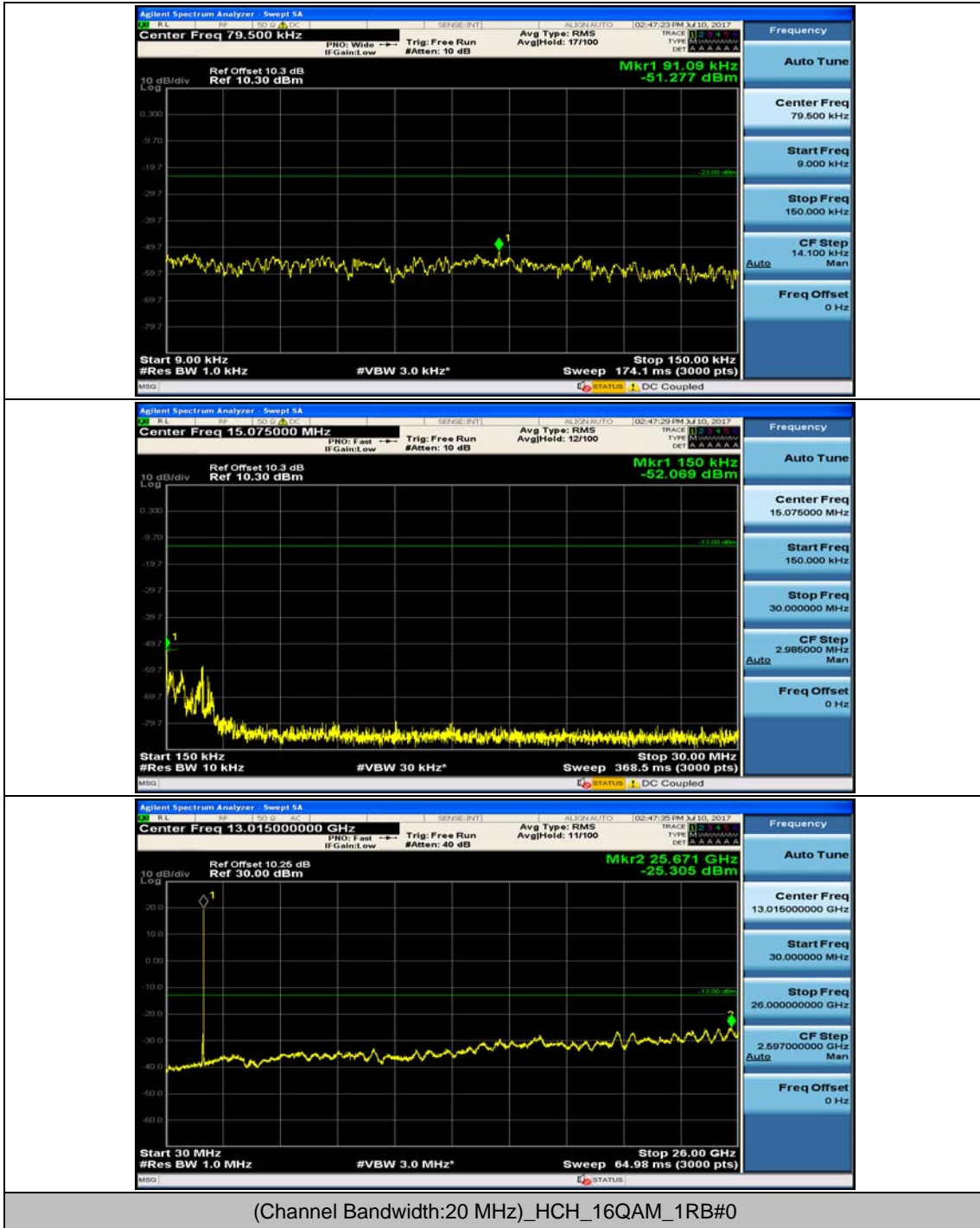


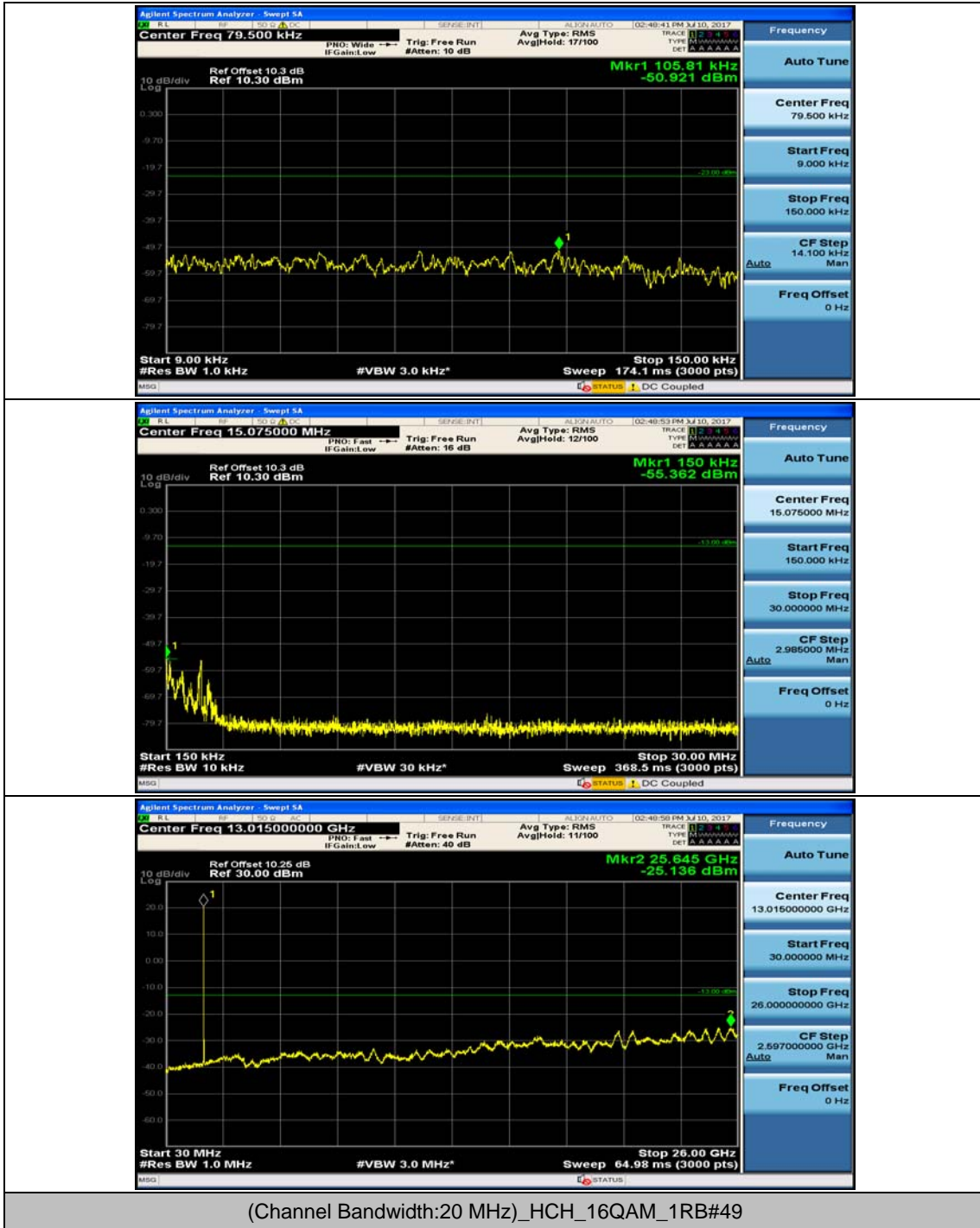




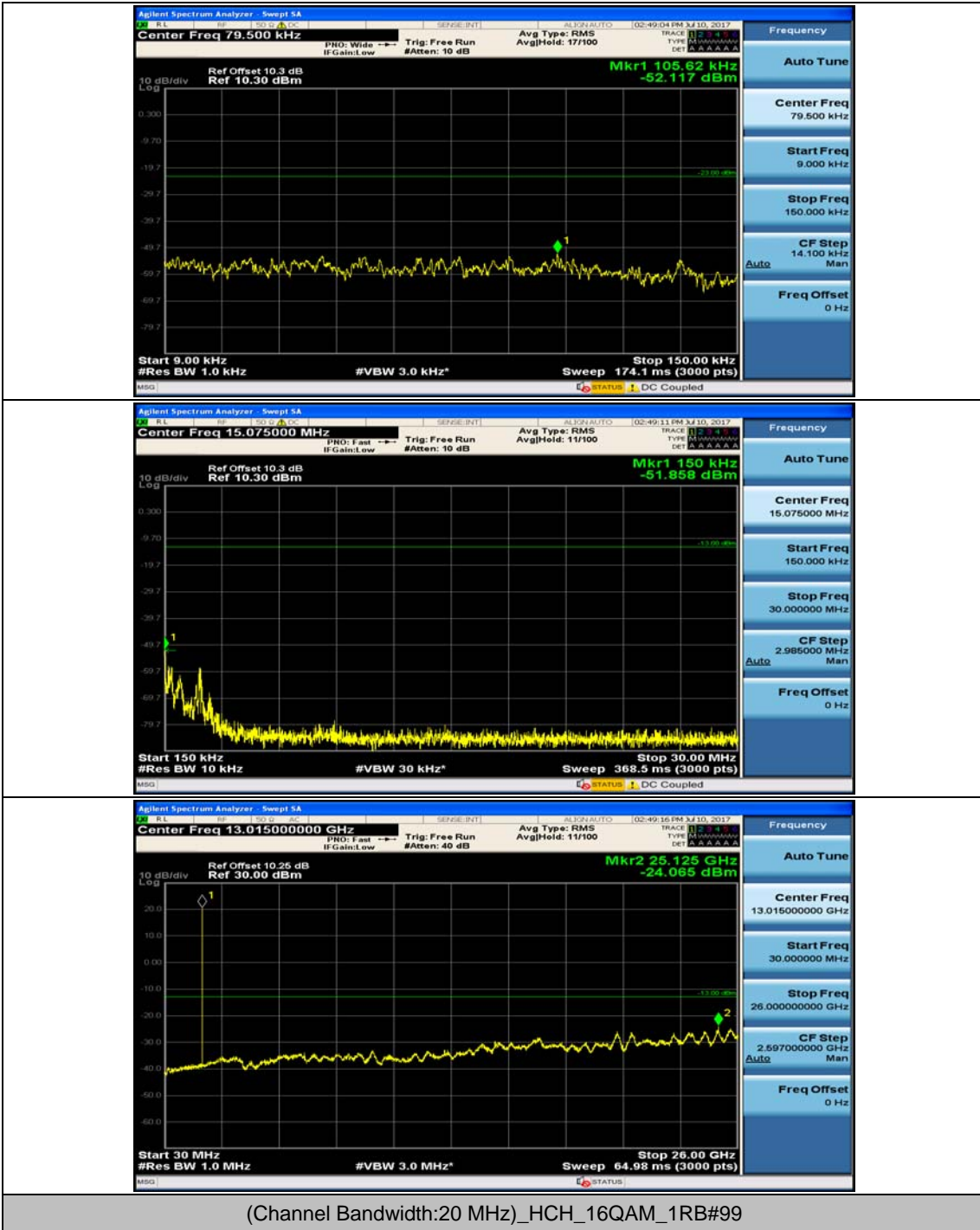


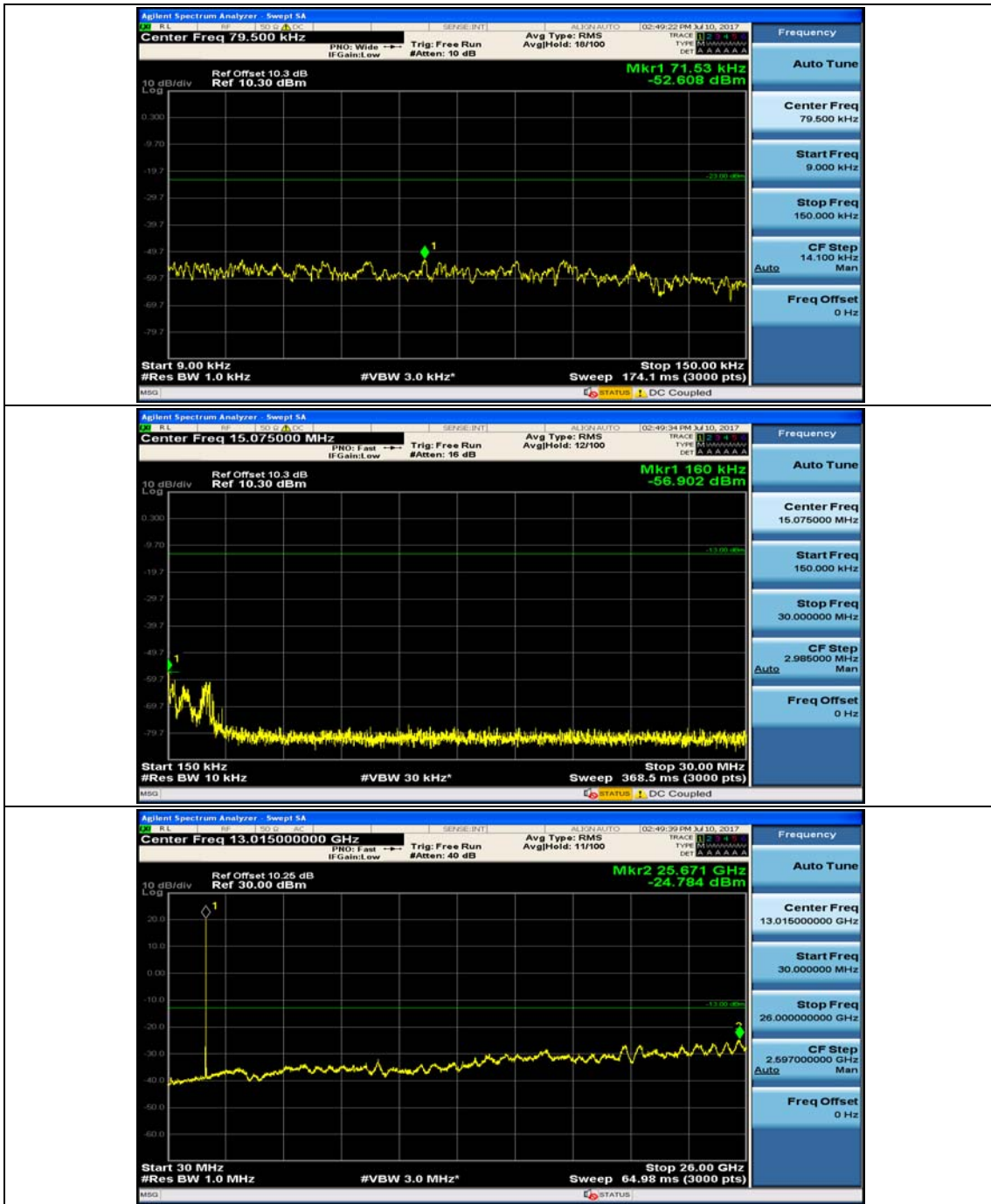












## Appendix F: Frequency Stability

### 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	-0.26	-0.000152	± 2.5	PASS
		VN	TN	-1.45	-0.000848	± 2.5	PASS
		VH	TN	-0.87	-0.000509	± 2.5	PASS
	MCH	VL	TN	1.31	0.000756	± 2.5	PASS
		VN	TN	0.23	0.000133	± 2.5	PASS
		VH	TN	-0.4	-0.000231	± 2.5	PASS
	HCH	VL	TN	4.44	0.002531	± 2.5	PASS
		VN	TN	3.28	0.001870	± 2.5	PASS
		VH	TN	-0.6	-0.000342	± 2.5	PASS
16QAM	LCH	VL	TN	-1.15	-0.000672	± 2.5	PASS
		VN	TN	4.62	0.002701	± 2.5	PASS
		VH	TN	4.69	0.002742	± 2.5	PASS
	MCH	VL	TN	2.47	0.001426	± 2.5	PASS
		VN	TN	3.87	0.002234	± 2.5	PASS
		VH	TN	1.43	0.000825	± 2.5	PASS
	HCH	VL	TN	-0.2	-0.000114	± 2.5	PASS
		VN	TN	2.31	0.001317	± 2.5	PASS
		VH	TN	2.93	0.001670	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.76	-0.001029	± 2.5	PASS
		VN	-20	3.66	0.002139	± 2.5	PASS
		VN	-10	2.13	0.001245	± 2.5	PASS
		VN	0	4.53	0.002648	± 2.5	PASS
		VN	10	2.58	0.001508	± 2.5	PASS
		VN	20	3.16	0.001847	± 2.5	PASS
		VN	30	4.6	0.002689	± 2.5	PASS
		VN	40	4.85	0.002835	± 2.5	PASS
	MCH	VN	-30	-0.84	-0.000485	± 2.5	PASS
		VN	-20	4.98	0.002874	± 2.5	PASS

		VN	-10	3.95	0.002280	± 2.5	PASS		
		VN	0	3.79	0.002188	± 2.5	PASS		
		VN	10	0.25	0.000144	± 2.5	PASS		
		VN	20	3.69	0.002130	± 2.5	PASS		
		VN	30	2.99	0.001726	± 2.5	PASS		
		VN	40	0.85	0.000491	± 2.5	PASS		
		VN	50	1.13	0.000652	± 2.5	PASS		
	HCH	VN	-30	2.43	0.001385	± 2.5	PASS		
		VN	-20	3.04	0.001733	± 2.5	PASS		
		VN	-10	3.02	0.001721	± 2.5	PASS		
		VN	0	0.55	0.000314	± 2.5	PASS		
		VN	10	2.99	0.001704	± 2.5	PASS		
		VN	20	3.42	0.001949	± 2.5	PASS		
		VN	30	3.35	0.001910	± 2.5	PASS		
		VN	40	2.26	0.001288	± 2.5	PASS		
		VN	50	0.28	0.000160	± 2.5	PASS		
		16QAM	LCH	VN	-30	0.07	0.000041	± 2.5	PASS
				VN	-20	0.36	0.000210	± 2.5	PASS
VN	-10			3.17	0.001853	± 2.5	PASS		
VN	0			-1.87	-0.001093	± 2.5	PASS		
VN	10			2.62	0.001532	± 2.5	PASS		
VN	20			3.04	0.001777	± 2.5	PASS		
VN	30			1.37	0.000801	± 2.5	PASS		
VN	40			3.89	0.002274	± 2.5	PASS		
VN	50			3.33	0.001947	± 2.5	PASS		
MCH	VN		-30	-0.9	-0.000513	± 2.5	PASS		
	VN		-20	-1.12	-0.000638	± 2.5	PASS		
	VN		-10	2.7	0.001539	± 2.5	PASS		
	VN		0	2.77	0.001579	± 2.5	PASS		
	VN		10	3.53	0.002012	± 2.5	PASS		
	VN		20	2.87	0.001636	± 2.5	PASS		
	VN		30	4.68	0.002668	± 2.5	PASS		
	VN		40	3.13	0.001784	± 2.5	PASS		
	VN		50	-1.89	-0.001077	± 2.5	PASS		
HCH	VN		-30	4.06	0.002314	± 2.5	PASS		
	VN		-20	2.61	0.001488	± 2.5	PASS		
	VN		-10	0.21	0.000120	± 2.5	PASS		
	VN		0	1.07	0.000610	± 2.5	PASS		
	VN		10	4.67	0.002662	± 2.5	PASS		
	VN		20	3.07	0.001750	± 2.5	PASS		
	VN		30	3.69	0.002103	± 2.5	PASS		

		VN	40	-0.45	-0.000257	± 2.5	PASS
		VN	50	-1.87	-0.001066	± 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	-1.52	-0.000888	± 2.5	PASS
		VN	TN	1.55	0.000906	± 2.5	PASS
		VH	TN	3.14	0.001835	± 2.5	PASS
	MCH	VL	TN	-0.82	-0.000473	± 2.5	PASS
		VN	TN	0.1	0.000058	± 2.5	PASS
		VH	TN	0.6	0.000346	± 2.5	PASS
	HCH	VL	TN	1.21	0.000690	± 2.5	PASS
		VN	TN	-1.23	-0.000701	± 2.5	PASS
		VH	TN	-0.96	-0.000547	± 2.5	PASS
16QAM	LCH	VL	TN	-1.21	-0.000707	± 2.5	PASS
		VN	TN	0.13	0.000076	± 2.5	PASS
		VH	TN	2.43	0.001420	± 2.5	PASS
	MCH	VL	TN	2.21	0.001276	± 2.5	PASS
		VN	TN	-1.31	-0.000756	± 2.5	PASS
		VH	TN	3.79	0.002188	± 2.5	PASS
	HCH	VL	TN	3.1	0.001768	± 2.5	PASS
		VN	TN	3.78	0.002156	± 2.5	PASS
		VH	TN	3.79	0.002161	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.31	0.002518	± 2.5	PASS
		VN	-20	1.25	0.000730	± 2.5	PASS
		VN	-10	0.27	0.000158	± 2.5	PASS
		VN	0	2.08	0.001215	± 2.5	PASS
		VN	10	-0.72	-0.000421	± 2.5	PASS
		VN	20	-1.07	-0.000625	± 2.5	PASS
		VN	30	3.07	0.001794	± 2.5	PASS
		VN	40	2.58	0.001507	± 2.5	PASS
		VN	50	0.62	0.000362	± 2.5	PASS
	MCH	VN	-30	-0.12	-0.000069	± 2.5	PASS
		VN	-20	4.52	0.002609	± 2.5	PASS
		VN	-10	-1.43	-0.000825	± 2.5	PASS

		VN	0	2.32	0.001339	± 2.5	PASS		
		VN	10	-0.1	-0.000058	± 2.5	PASS		
		VN	20	-1.58	-0.000912	± 2.5	PASS		
		VN	30	0.4	0.000231	± 2.5	PASS		
		VN	40	4.56	0.002632	± 2.5	PASS		
		VN	50	1.87	0.001079	± 2.5	PASS		
	HCH	VN	-30	1.39	0.000793	± 2.5	PASS		
		VN	-20	-0.69	-0.000393	± 2.5	PASS		
		VN	-10	2.75	0.001568	± 2.5	PASS		
		VN	0	2.2	0.001255	± 2.5	PASS		
		VN	10	2.38	0.001357	± 2.5	PASS		
		VN	20	-1.55	-0.000884	± 2.5	PASS		
		VN	30	4.54	0.002589	± 2.5	PASS		
		VN	40	-0.89	-0.000508	± 2.5	PASS		
		VN	50	1.2	0.000684	± 2.5	PASS		
		16QAM	LCH	VN	-30	-0.67	-0.000387	± 2.5	PASS
				VN	-20	0.17	0.000098	± 2.5	PASS
				VN	-10	2.52	0.001455	± 2.5	PASS
VN	0			4.3	0.002482	± 2.5	PASS		
VN	10			1.02	0.000589	± 2.5	PASS		
VN	20			-0.23	-0.000133	± 2.5	PASS		
VN	30			-1.84	-0.001062	± 2.5	PASS		
VN	40			1.46	0.000843	± 2.5	PASS		
VN	50			0.94	0.000543	± 2.5	PASS		
MCH	VN		-30	4.95	0.002823	± 2.5	PASS		
	VN		-20	-1.6	-0.000912	± 2.5	PASS		
	VN		-10	0.06	0.000034	± 2.5	PASS		
	VN		0	1.23	0.000701	± 2.5	PASS		
	VN		10	-1.33	-0.000758	± 2.5	PASS		
	VN		20	3.74	0.002133	± 2.5	PASS		
	VN		30	-1.54	-0.000878	± 2.5	PASS		
	VN		40	2.68	0.001528	± 2.5	PASS		
	VN		50	0.24	0.000137	± 2.5	PASS		
HCH	VN		-30	4.26	0.002429	± 2.5	PASS		
	VN		-20	2.96	0.001688	± 2.5	PASS		
	VN		-10	3.39	0.001933	± 2.5	PASS		
	VN		0	3.89	0.002218	± 2.5	PASS		
	VN		10	4.74	0.002703	± 2.5	PASS		
	VN		20	-0.9	-0.000513	± 2.5	PASS		
	VN		30	0.67	0.000382	± 2.5	PASS		
	VN		40	3.13	0.001785	± 2.5	PASS		

		VN	50	-0.38	-0.000217	± 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	3.3	0.001927	± 2.5	PASS
		VN	TN	2.5	0.001460	± 2.5	PASS
		VH	TN	0.46	0.000269	± 2.5	PASS
	MCH	VL	TN	0.94	0.000543	± 2.5	PASS
		VN	TN	-1.76	-0.001016	± 2.5	PASS
		VH	TN	-0.7	-0.000404	± 2.5	PASS
	HCH	VL	TN	4.23	0.002414	± 2.5	PASS
		VN	TN	-1.18	-0.000673	± 2.5	PASS
		VH	TN	0.19	0.000108	± 2.5	PASS
16QAM	LCH	VL	TN	0.93	0.000543	± 2.5	PASS
		VN	TN	-1.84	-0.001074	± 2.5	PASS
		VH	TN	3.59	0.002096	± 2.5	PASS
	MCH	VL	TN	3.25	0.001876	± 2.5	PASS
		VN	TN	-0.16	-0.000092	± 2.5	PASS
		VH	TN	0.57	0.000329	± 2.5	PASS
	HCH	VL	TN	0.77	0.000439	± 2.5	PASS
		VN	TN	1.06	0.000605	± 2.5	PASS
		VH	TN	2.43	0.001387	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.49	0.002038	± 2.5	PASS
		VN	-20	-1.02	-0.000596	± 2.5	PASS
		VN	-10	-1.29	-0.000753	± 2.5	PASS
		VN	0	2.88	0.001682	± 2.5	PASS
		VN	10	1.01	0.000590	± 2.5	PASS
		VN	20	2.07	0.001209	± 2.5	PASS
		VN	30	2.72	0.001588	± 2.5	PASS
		VN	40	2.02	0.001180	± 2.5	PASS
		VN	50	0.49	0.000286	± 2.5	PASS
	MCH	VN	-30	2.64	0.001524	± 2.5	PASS
		VN	-20	-0.55	-0.000317	± 2.5	PASS
		VN	-10	-1.37	-0.000791	± 2.5	PASS
		VN	0	4.75	0.002742	± 2.5	PASS

		VN	10	4.63	0.002672	± 2.5	PASS
		VN	20	0.03	0.000017	± 2.5	PASS
		VN	30	-0.88	-0.000508	± 2.5	PASS
		VN	40	2.24	0.001293	± 2.5	PASS
		VN	50	1.72	0.000993	± 2.5	PASS
	HCH	VN	-30	1.16	0.000662	± 2.5	PASS
		VN	-20	2.7	0.001415	± 2.5	PASS
		VN	-10	0.26	0.000136	± 2.5	PASS
		VN	0	1.88	0.000986	± 2.5	PASS
		VN	10	3.46	0.001814	± 2.5	PASS
		VN	20	2.33	0.001221	± 2.5	PASS
		VN	30	2.89	0.001515	± 2.5	PASS
		VN	40	2.16	0.001132	± 2.5	PASS
		VN	50	0.55	0.000288	± 2.5	PASS
		16QAM	LCH	VN	-30	3.05	0.001760
VN	-20			3.66	0.002113	± 2.5	PASS
VN	-10			3.54	0.002043	± 2.5	PASS
VN	0			0.58	0.000335	± 2.5	PASS
VN	10			2.72	0.001570	± 2.5	PASS
VN	20			2.32	0.001339	± 2.5	PASS
VN	30			0.05	0.000029	± 2.5	PASS
VN	40			1.21	0.000698	± 2.5	PASS
VN	50			3.04	0.001755	± 2.5	PASS
MCH	VN		-30	-1.79	-0.001021	± 2.5	PASS
	VN		-20	1.16	0.000662	± 2.5	PASS
	VN		-10	-1.43	-0.000816	± 2.5	PASS
	VN		0	3.97	0.002265	± 2.5	PASS
	VN		10	-1.73	-0.000987	± 2.5	PASS
	VN		20	-1.01	-0.000576	± 2.5	PASS
	VN		30	1.72	0.000981	± 2.5	PASS
	VN		40	3.12	0.001780	± 2.5	PASS
	VN		50	0.43	0.000245	± 2.5	PASS
HCH	VN		-30	1.77	0.000928	± 2.5	PASS
	VN		-20	2.42	0.001269	± 2.5	PASS
	VN		-10	-0.38	-0.000199	± 2.5	PASS
	VN		0	2.66	0.001394	± 2.5	PASS
	VN		10	3.09	0.001620	± 2.5	PASS
	VN		20	4.58	0.002401	± 2.5	PASS
	VN		30	4.19	0.002197	± 2.5	PASS
	VN		40	0.16	0.000084	± 2.5	PASS
	VN		50	4.63	0.002427	± 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	1.58	0.000921	± 2.5	PASS
		VN	TN	3.07	0.001790	± 2.5	PASS
		VH	TN	1.82	0.001061	± 2.5	PASS
	MCH	VL	TN	0.46	0.000266	± 2.5	PASS
		VN	TN	4.14	0.002390	± 2.5	PASS
		VH	TN	1.85	0.001068	± 2.5	PASS
	HCH	VL	TN	0.39	0.000223	± 2.5	PASS
		VN	TN	4.7	0.002686	± 2.5	PASS
		VH	TN	-1.28	-0.000731	± 2.5	PASS
16QAM	LCH	VL	TN	3.35	0.001953	± 2.5	PASS
		VN	TN	1.47	0.000857	± 2.5	PASS
		VH	TN	4.81	0.002805	± 2.5	PASS
	MCH	VL	TN	1.23	0.000710	± 2.5	PASS
		VN	TN	4.28	0.002470	± 2.5	PASS
		VH	TN	0.3	0.000173	± 2.5	PASS
	HCH	VL	TN	0.56	0.000320	± 2.5	PASS
		VN	TN	-0.27	-0.000154	± 2.5	PASS
		VH	TN	3.19	0.001823	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.98	0.000571	± 2.5	PASS
		VN	-20	3.17	0.001848	± 2.5	PASS
		VN	-10	1.8	0.001050	± 2.5	PASS
		VN	0	1.13	0.000659	± 2.5	PASS
		VN	10	1.17	0.000682	± 2.5	PASS
		VN	20	1.39	0.000810	± 2.5	PASS
		VN	30	1.48	0.000863	± 2.5	PASS
		VN	40	0.77	0.000449	± 2.5	PASS
		VN	50	2.65	0.001545	± 2.5	PASS
	MCH	VN	-30	1.14	0.000658	± 2.5	PASS
		VN	-20	-0.4	-0.000231	± 2.5	PASS
		VN	-10	-1.5	-0.000866	± 2.5	PASS
		VN	0	4.07	0.002349	± 2.5	PASS
		VN	10	1.94	0.001120	± 2.5	PASS
		VN	20	1.75	0.001010	± 2.5	PASS

		VN	30	-1.1	-0.000635	± 2.5	PASS
		VN	40	1.87	0.001079	± 2.5	PASS
		VN	50	-0.12	-0.000069	± 2.5	PASS
	HCH	VN	-30	2.26	0.001291	± 2.5	PASS
		VN	-20	1.69	0.000966	± 2.5	PASS
		VN	-10	-0.27	-0.000154	± 2.5	PASS
		VN	0	0.76	0.000434	± 2.5	PASS
		VN	10	-0.05	-0.000029	± 2.5	PASS
		VN	20	3.11	0.001777	± 2.5	PASS
		VN	30	3.73	0.002131	± 2.5	PASS
		VN	40	3.49	0.001994	± 2.5	PASS
		VN	50	3.84	0.002194	± 2.5	PASS
16QAM	LCH	VN	-30	3.42	0.001974	± 2.5	PASS
		VN	-20	-0.75	-0.000433	± 2.5	PASS
		VN	-10	0.63	0.000364	± 2.5	PASS
		VN	0	3.61	0.002084	± 2.5	PASS
		VN	10	0.53	0.000306	± 2.5	PASS
		VN	20	0.53	0.000306	± 2.5	PASS
		VN	30	0.49	0.000283	± 2.5	PASS
		VN	40	-0.54	-0.000312	± 2.5	PASS
		VN	50	-0.78	-0.000450	± 2.5	PASS
	MCH	VN	-30	-0.49	-0.000280	± 2.5	PASS
		VN	-20	0.78	0.000446	± 2.5	PASS
		VN	-10	-0.12	-0.000069	± 2.5	PASS
		VN	0	4.38	0.002503	± 2.5	PASS
		VN	10	1.43	0.000817	± 2.5	PASS
		VN	20	4.66	0.002663	± 2.5	PASS
		VN	30	-0.05	-0.000029	± 2.5	PASS
		VN	40	-0.77	-0.000440	± 2.5	PASS
		VN	50	0.11	0.000063	± 2.5	PASS
	HCH	VN	-30	1.22	0.000697	± 2.5	PASS
		VN	-20	4.69	0.002680	± 2.5	PASS
		VN	-10	-0.54	-0.000309	± 2.5	PASS
		VN	0	1.21	0.000691	± 2.5	PASS
		VN	10	2.82	0.001611	± 2.5	PASS
		VN	20	-1.76	-0.001006	± 2.5	PASS
VN		30	3.36	0.001920	± 2.5	PASS	
VN		40	-1.28	-0.000731	± 2.5	PASS	
VN		50	3.3	0.001886	± 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	4.51	0.002626	± 2.5	PASS
		VN	TN	2.84	0.001654	± 2.5	PASS
		VH	TN	3.11	0.001811	± 2.5	PASS
	MCH	VL	TN	0.36	0.000208	± 2.5	PASS
		VN	TN	4.67	0.002696	± 2.5	PASS
		VH	TN	0.05	0.000029	± 2.5	PASS
	HCH	VL	TN	4.46	0.002552	± 2.5	PASS
		VN	TN	-0.46	-0.000263	± 2.5	PASS
		VH	TN	-0.15	-0.000086	± 2.5	PASS
16QAM	LCH	VL	TN	4.58	0.002667	± 2.5	PASS
		VN	TN	4.68	0.002725	± 2.5	PASS
		VH	TN	-0.77	-0.000448	± 2.5	PASS
	MCH	VL	TN	4.94	0.002851	± 2.5	PASS
		VN	TN	-1.33	-0.000768	± 2.5	PASS
		VH	TN	-1.51	-0.000872	± 2.5	PASS
	HCH	VL	TN	-1.69	-0.000967	± 2.5	PASS
		VN	TN	1.97	0.001127	± 2.5	PASS
		VH	TN	-1.31	-0.000750	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.47	0.000274	± 2.5	PASS
		VN	-20	3.08	0.001793	± 2.5	PASS
		VN	-10	-0.47	-0.000274	± 2.5	PASS
		VN	0	-0.55	-0.000320	± 2.5	PASS
		VN	10	1.42	0.000827	± 2.5	PASS
		VN	20	0.92	0.000536	± 2.5	PASS
		VN	30	2.64	0.001537	± 2.5	PASS
		VN	40	2.08	0.001211	± 2.5	PASS
		VN	50	1.8	0.001048	± 2.5	PASS
	MCH	VN	-30	0.28	0.000162	± 2.5	PASS
		VN	-20	3.65	0.002107	± 2.5	PASS
		VN	-10	2.64	0.001524	± 2.5	PASS
		VN	0	4.5	0.002597	± 2.5	PASS
		VN	10	2.72	0.001570	± 2.5	PASS
		VN	20	2.44	0.001408	± 2.5	PASS

		VN	30	0.97	0.000560	± 2.5	PASS
		VN	40	3.79	0.002188	± 2.5	PASS
		VN	50	2.7	0.001558	± 2.5	PASS
	HCH	VN	-30	3.45	0.001974	± 2.5	PASS
		VN	-20	2.74	0.001568	± 2.5	PASS
		VN	-10	4.22	0.002415	± 2.5	PASS
		VN	0	-0.38	-0.000217	± 2.5	PASS
		VN	10	4.78	0.002735	± 2.5	PASS
		VN	20	1.87	0.001070	± 2.5	PASS
		VN	30	1.83	0.001047	± 2.5	PASS
		VN	40	0.08	0.000046	± 2.5	PASS
		VN	50	3.99	0.002283	± 2.5	PASS
16QAM	LCH	VN	-30	-1.49	-0.000860	± 2.5	PASS
		VN	-20	1.97	0.001137	± 2.5	PASS
		VN	-10	0.73	0.000421	± 2.5	PASS
		VN	0	1.07	0.000618	± 2.5	PASS
		VN	10	1.15	0.000664	± 2.5	PASS
		VN	20	-1.81	-0.001045	± 2.5	PASS
		VN	30	1.75	0.001010	± 2.5	PASS
		VN	40	1.09	0.000629	± 2.5	PASS
		VN	50	-1.12	-0.000646	± 2.5	PASS
	MCH	VN	-30	-1.42	-0.000813	± 2.5	PASS
		VN	-20	4.01	0.002295	± 2.5	PASS
		VN	-10	-1.98	-0.001133	± 2.5	PASS
		VN	0	2.09	0.001196	± 2.5	PASS
		VN	10	-1.05	-0.000601	± 2.5	PASS
		VN	20	0.5	0.000286	± 2.5	PASS
		VN	30	-0.37	-0.000212	± 2.5	PASS
		VN	40	4.18	0.002392	± 2.5	PASS
		VN	50	4.17	0.002386	± 2.5	PASS
	HCH	VN	-30	3.19	0.001825	± 2.5	PASS
		VN	-20	2.86	0.001637	± 2.5	PASS
		VN	-10	4.24	0.002426	± 2.5	PASS
		VN	0	-1.67	-0.000956	± 2.5	PASS
		VN	10	-0.91	-0.000521	± 2.5	PASS
		VN	20	-1.96	-0.001122	± 2.5	PASS
		VN	30	3.46	0.001980	± 2.5	PASS
		VN	40	-0.15	-0.000086	± 2.5	PASS
		VN	50	-0.23	-0.000132	± 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	2.31	0.001343	± 2.5	PASS
		VN	TN	-0.04	-0.000023	± 2.5	PASS
		VH	TN	1.59	0.000924	± 2.5	PASS
	MCH	VL	TN	1.21	0.000698	± 2.5	PASS
		VN	TN	-1.47	-0.000848	± 2.5	PASS
		VH	TN	-0.85	-0.000491	± 2.5	PASS
	HCH	VL	TN	1.42	0.000814	± 2.5	PASS
		VN	TN	0.38	0.000218	± 2.5	PASS
		VH	TN	0.55	0.000315	± 2.5	PASS
16QAM	LCH	VL	TN	1.85	0.001076	± 2.5	PASS
		VN	TN	1.17	0.000680	± 2.5	PASS
		VH	TN	-0.82	-0.000477	± 2.5	PASS
	MCH	VL	TN	0.5	0.000289	± 2.5	PASS
		VN	TN	3.25	0.001876	± 2.5	PASS
		VH	TN	2.01	0.001160	± 2.5	PASS
	HCH	VL	TN	-1.5	-0.000860	± 2.5	PASS
		VN	TN	4.55	0.002607	± 2.5	PASS
		VH	TN	2.01	0.001152	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.14	0.000081	± 2.5	PASS
		VN	-20	-1.88	-0.001093	± 2.5	PASS
		VN	-10	-1.54	-0.000895	± 2.5	PASS
		VN	0	-0.51	-0.000297	± 2.5	PASS
		VN	10	1.04	0.000605	± 2.5	PASS
		VN	20	-0.12	-0.000070	± 2.5	PASS
		VN	30	1.2	0.000698	± 2.5	PASS
		VN	40	4.31	0.002506	± 2.5	PASS
		VN	50	-1.48	-0.000860	± 2.5	PASS
	MCH	VN	-30	1.08	0.000623	± 2.5	PASS
		VN	-20	4.01	0.002315	± 2.5	PASS
		VN	-10	4.76	0.002747	± 2.5	PASS
		VN	0	1.2	0.000693	± 2.5	PASS
		VN	10	-1.46	-0.000843	± 2.5	PASS
		VN	20	0.06	0.000035	± 2.5	PASS

		VN	30	-1.96	-0.001131	± 2.5	PASS
		VN	40	4.56	0.002632	± 2.5	PASS
		VN	50	1.14	0.000658	± 2.5	PASS
	HCH	VN	-30	-0.96	-0.000550	± 2.5	PASS
		VN	-20	4.47	0.002562	± 2.5	PASS
		VN	-10	-0.04	-0.000023	± 2.5	PASS
		VN	0	2.61	0.001496	± 2.5	PASS
		VN	10	4.41	0.002527	± 2.5	PASS
		VN	20	3.71	0.002126	± 2.5	PASS
		VN	30	2.03	0.001163	± 2.5	PASS
		VN	40	1.12	0.000642	± 2.5	PASS
		VN	50	3.19	0.001828	± 2.5	PASS
16QAM	LCH	VN	-30	0.28	0.000162	± 2.5	PASS
		VN	-20	3.48	0.002009	± 2.5	PASS
		VN	-10	4.16	0.002401	± 2.5	PASS
		VN	0	-1.86	-0.001074	± 2.5	PASS
		VN	10	-1.84	-0.001062	± 2.5	PASS
		VN	20	0.22	0.000127	± 2.5	PASS
		VN	30	2.44	0.001408	± 2.5	PASS
		VN	40	2.58	0.001489	± 2.5	PASS
		VN	50	2.56	0.001478	± 2.5	PASS
	MCH	VN	-30	3.82	0.002189	± 2.5	PASS
		VN	-20	4.2	0.002407	± 2.5	PASS
		VN	-10	3.23	0.001851	± 2.5	PASS
		VN	0	-1.04	-0.000596	± 2.5	PASS
		VN	10	3.91	0.002241	± 2.5	PASS
		VN	20	4.56	0.002613	± 2.5	PASS
		VN	30	4.33	0.002481	± 2.5	PASS
		VN	40	2.81	0.001610	± 2.5	PASS
		VN	50	-0.42	-0.000241	± 2.5	PASS
	HCH	VN	-30	0.85	0.000487	± 2.5	PASS
		VN	-20	-1.66	-0.000951	± 2.5	PASS
		VN	-10	3.45	0.001977	± 2.5	PASS
		VN	0	0.95	0.000544	± 2.5	PASS
		VN	10	-0.29	-0.000166	± 2.5	PASS
		VN	20	2.63	0.001507	± 2.5	PASS
		VN	30	2.2	0.001261	± 2.5	PASS
		VN	40	0.8	0.000458	± 2.5	PASS
		VN	50	4.71	0.002699	± 2.5	PASS