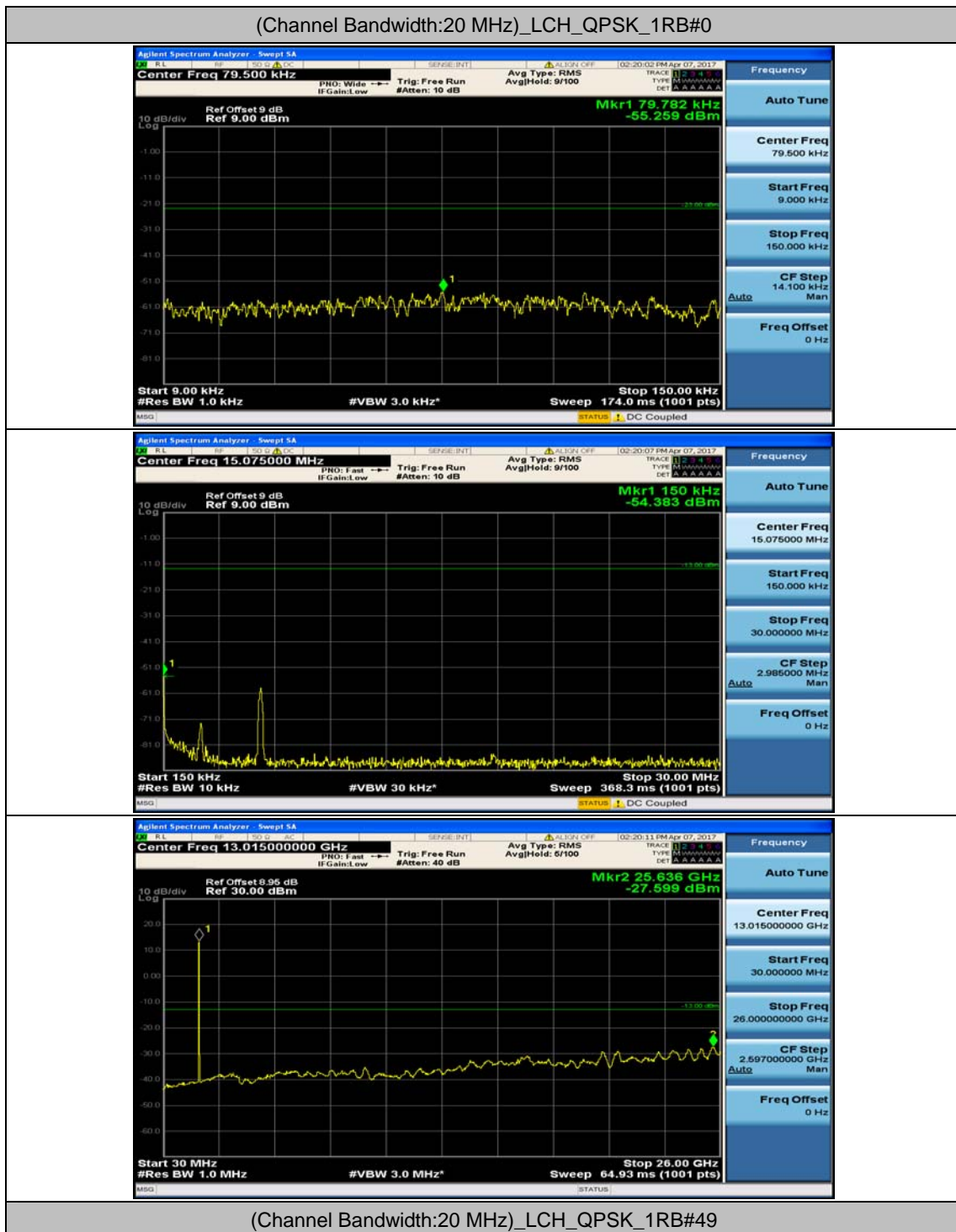
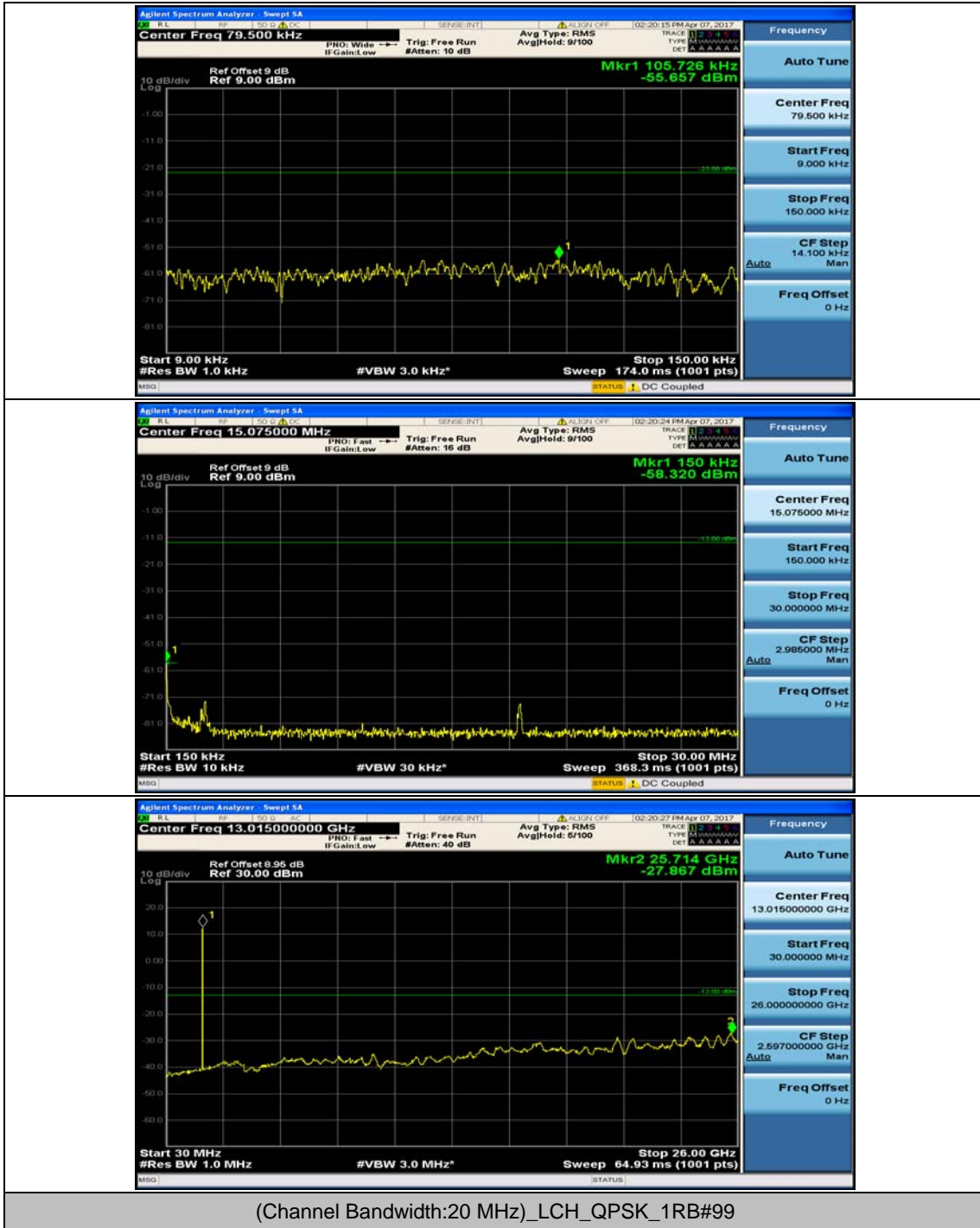
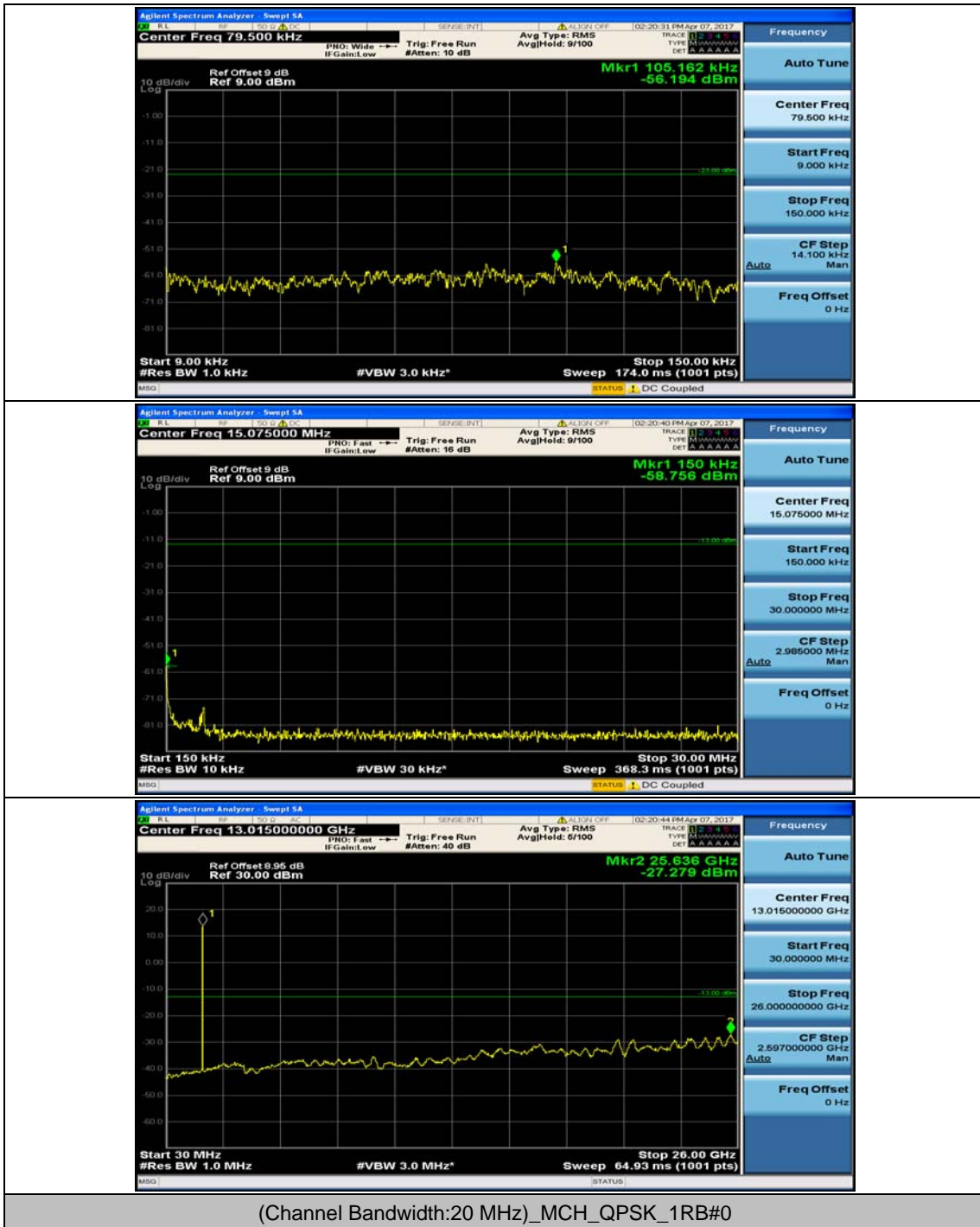
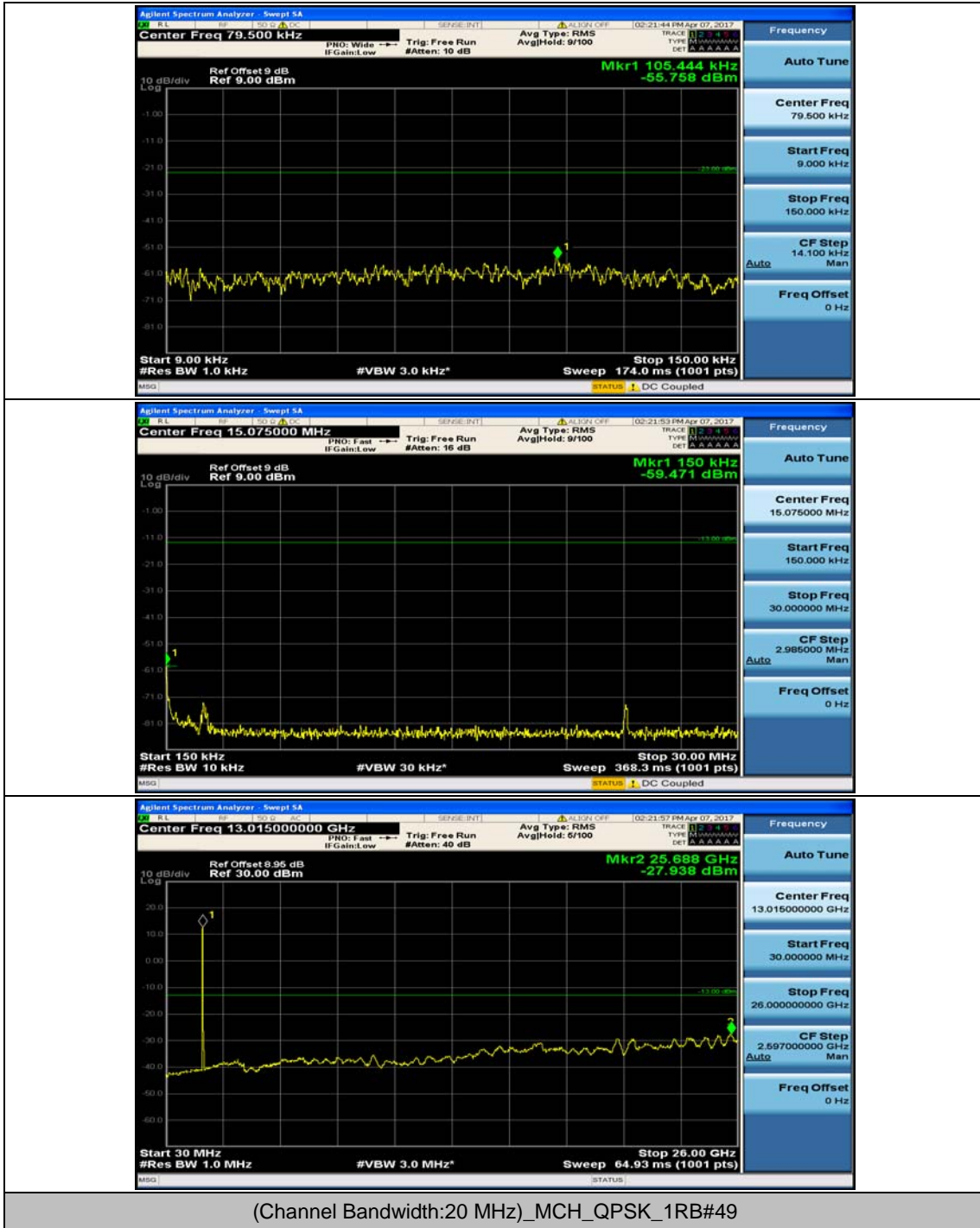


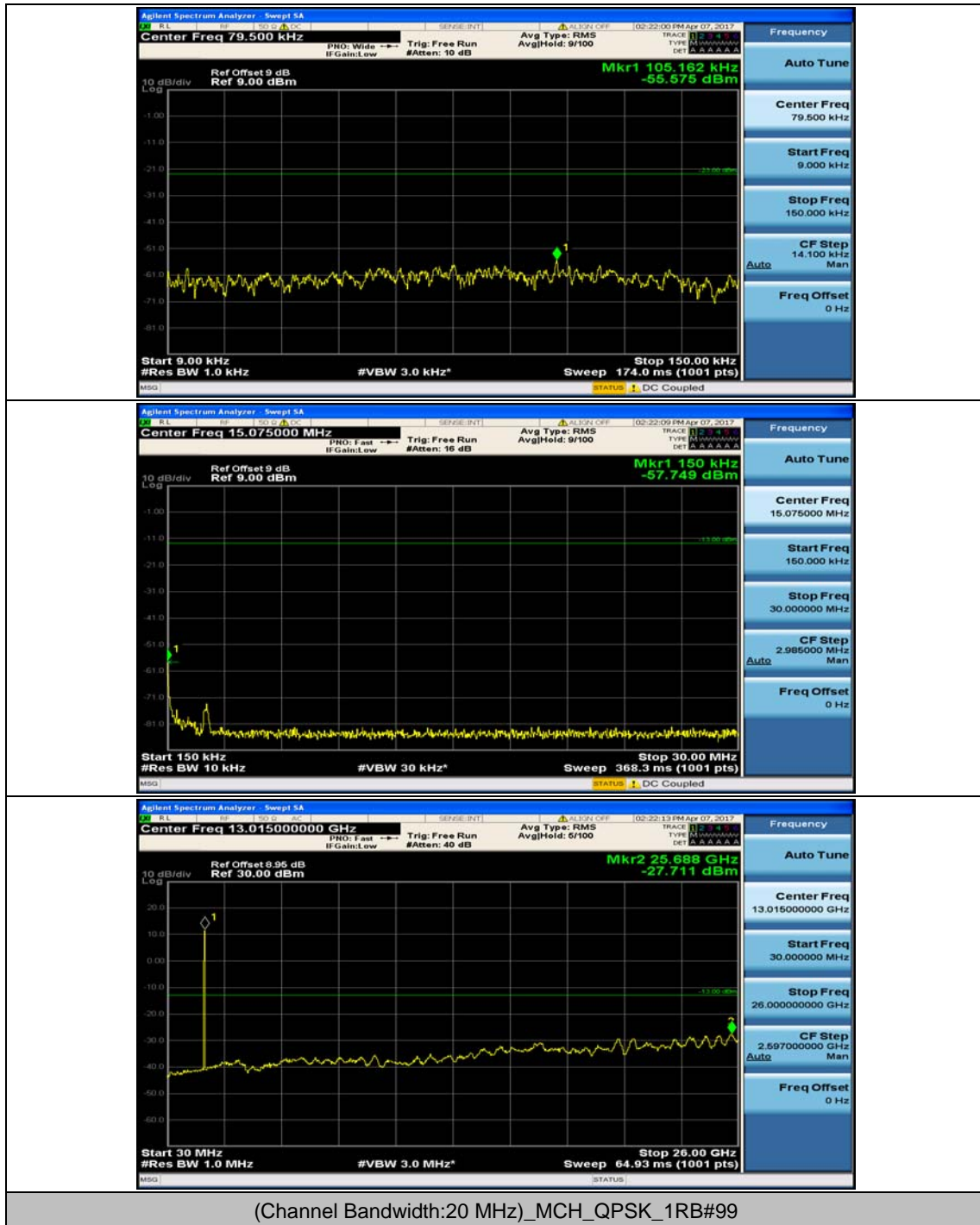
Channel Bandwidth: 20 MHz

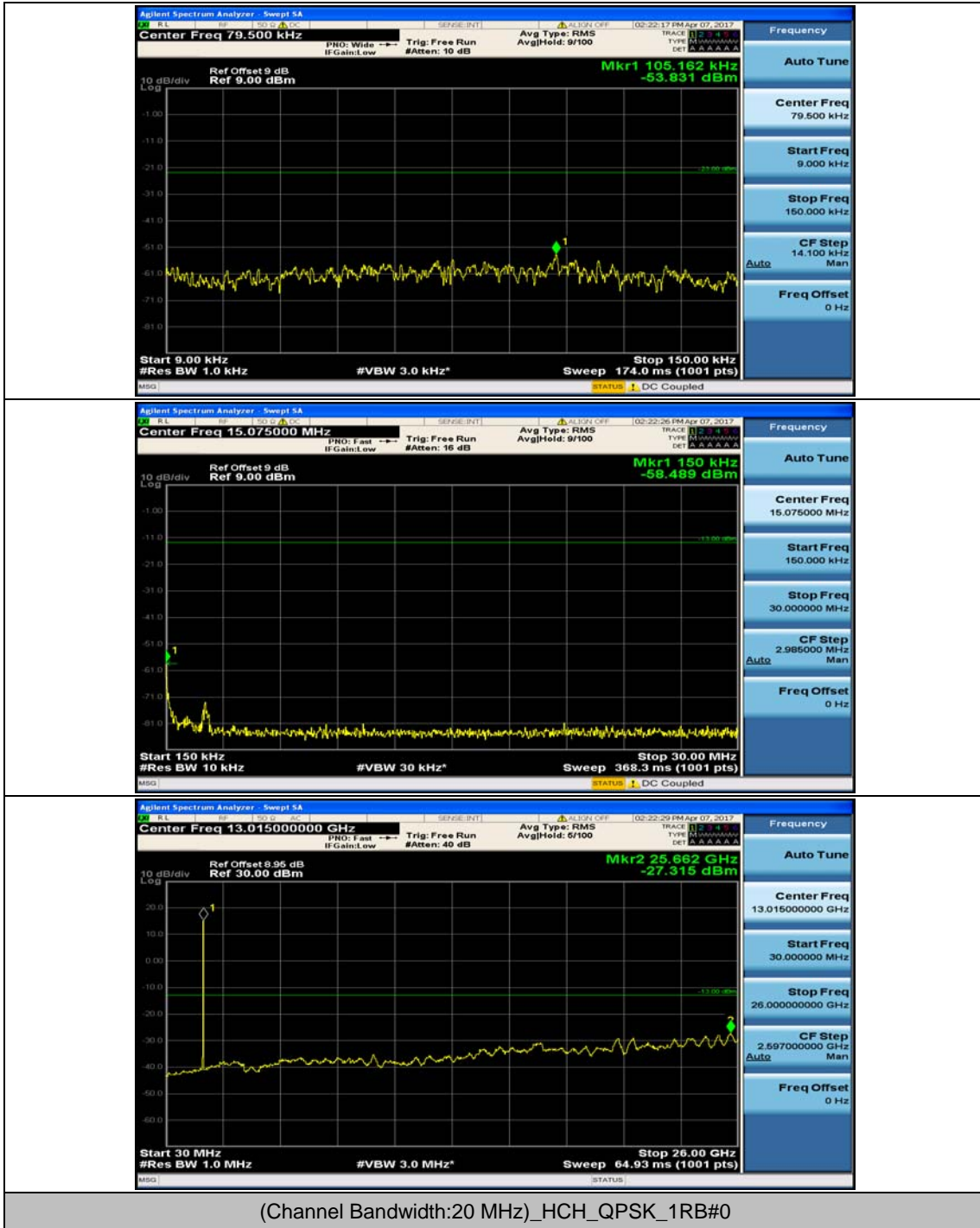


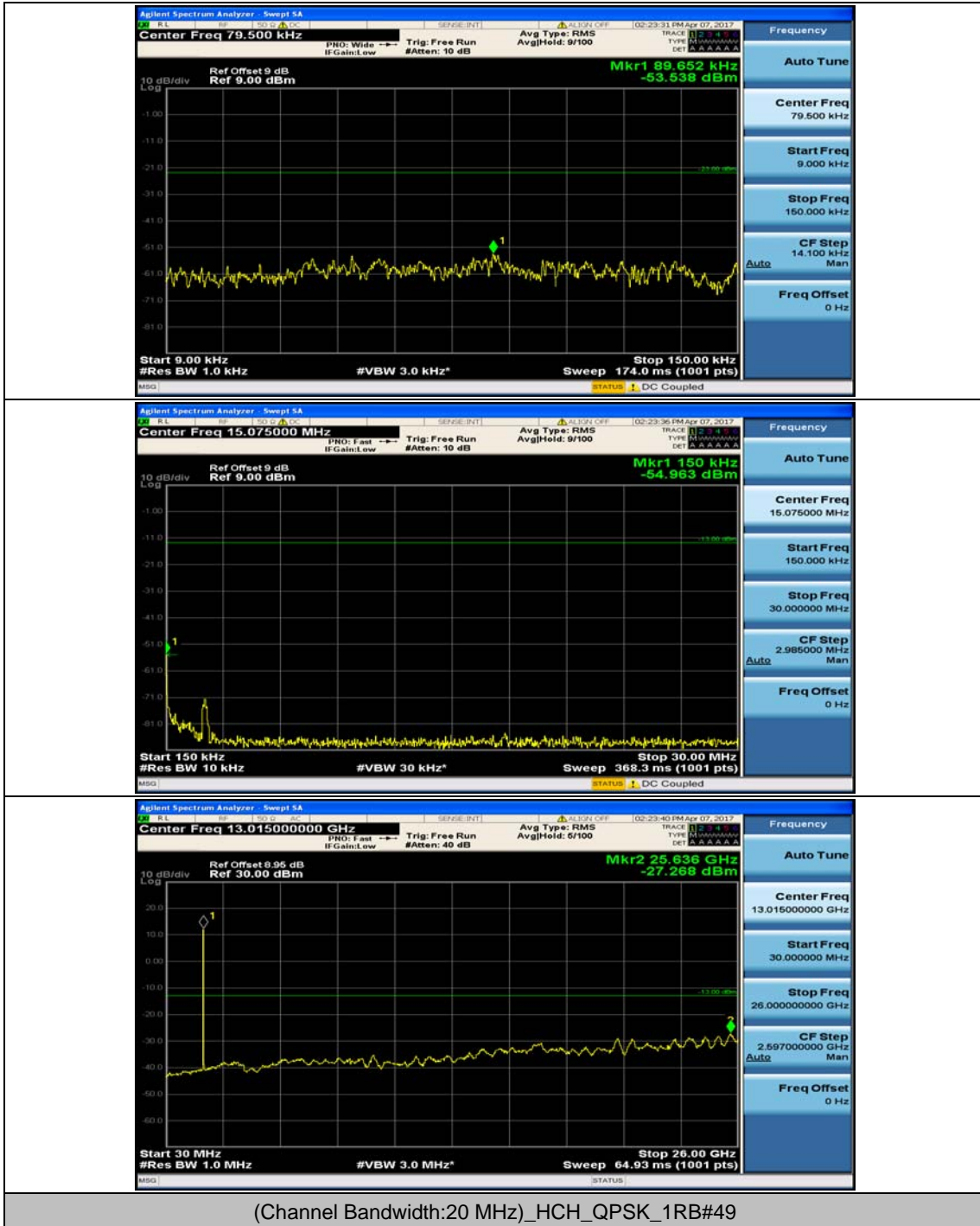


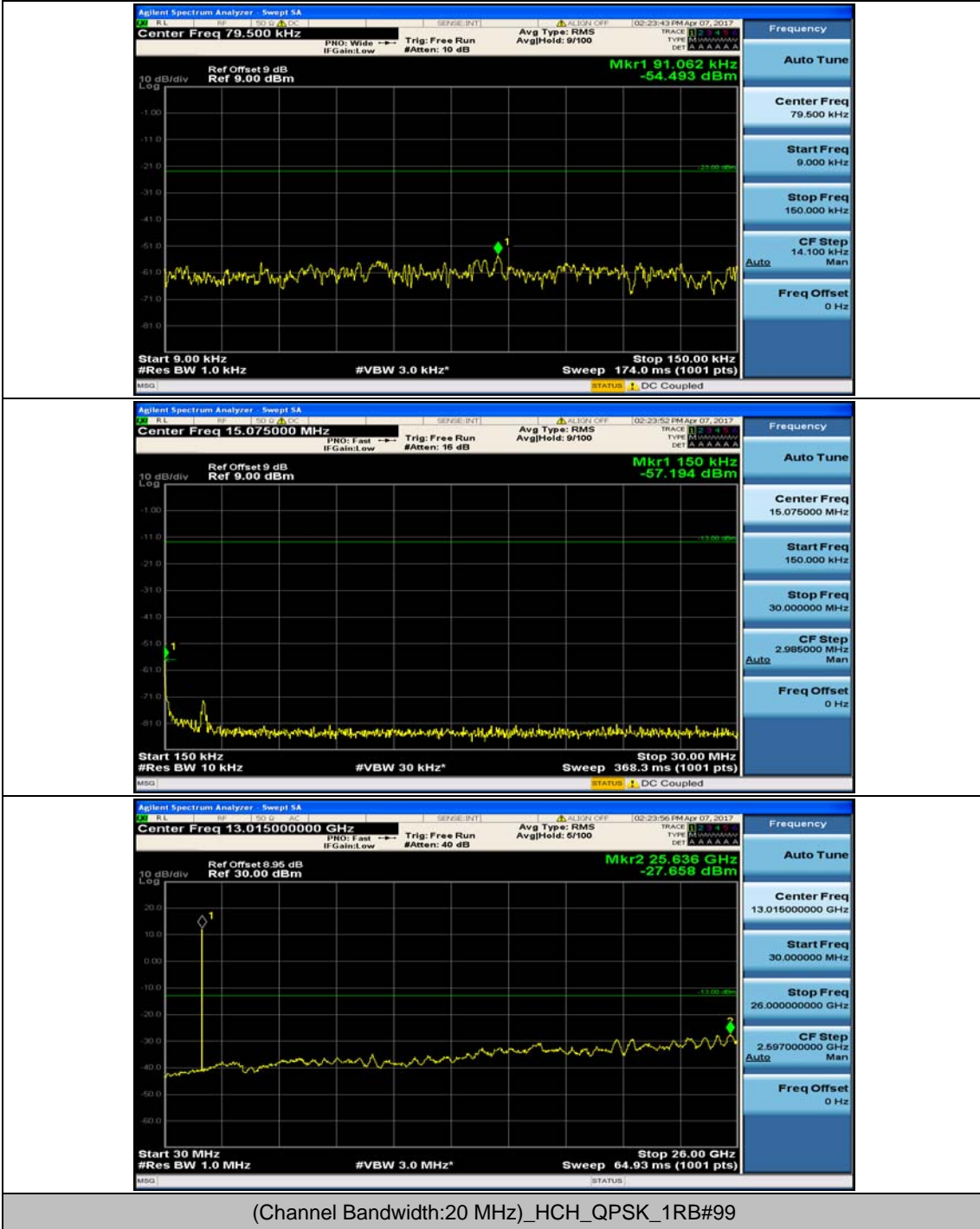


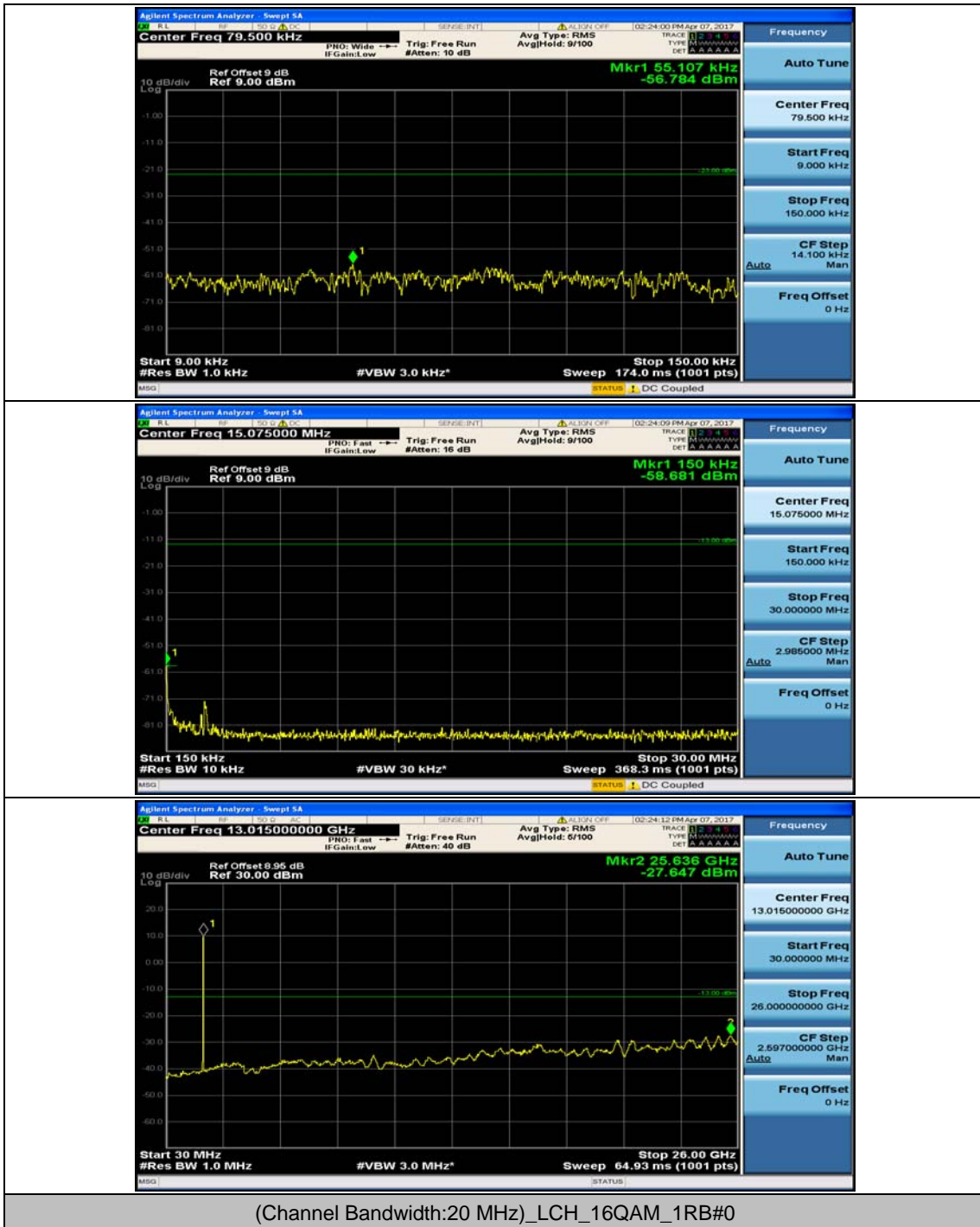


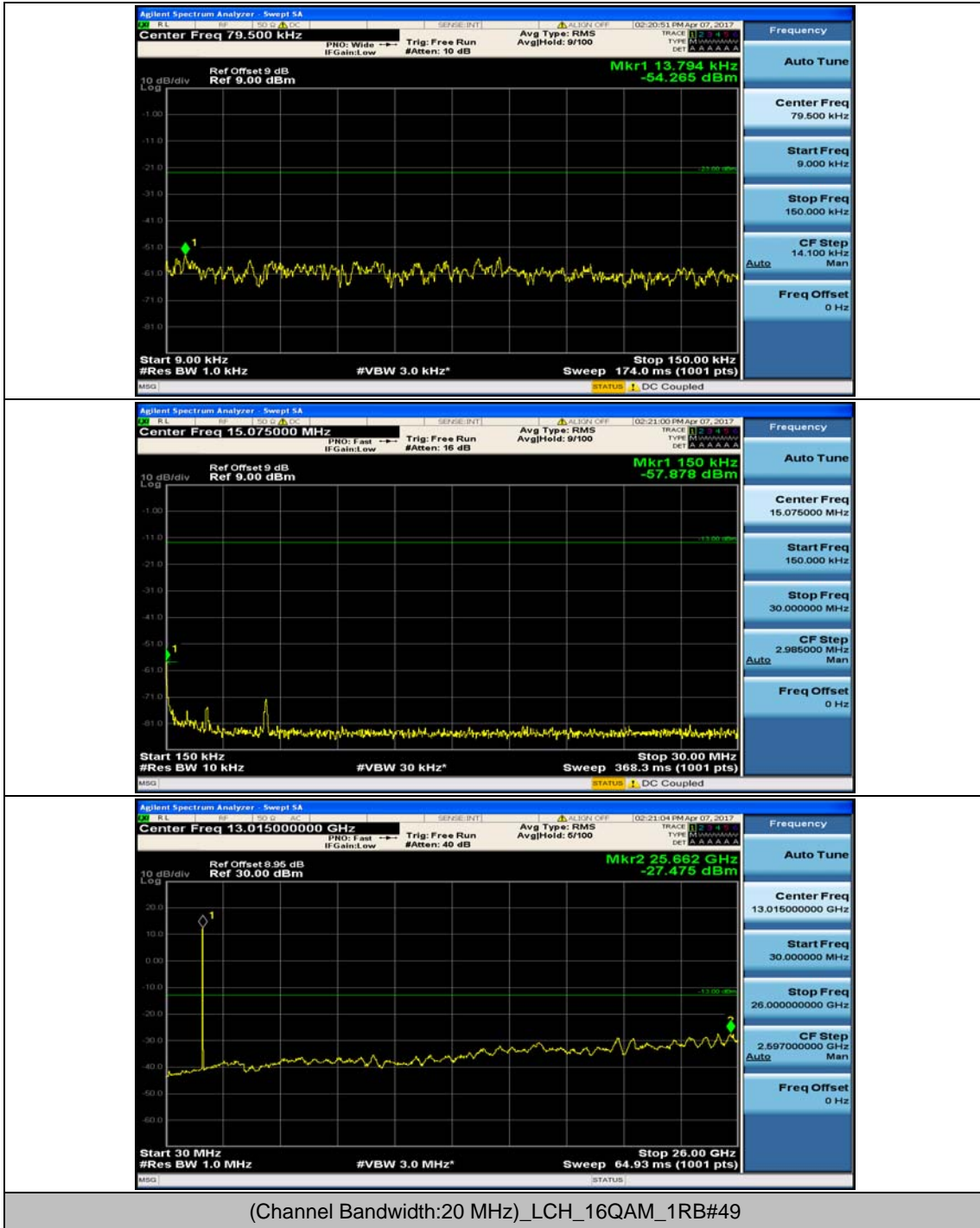


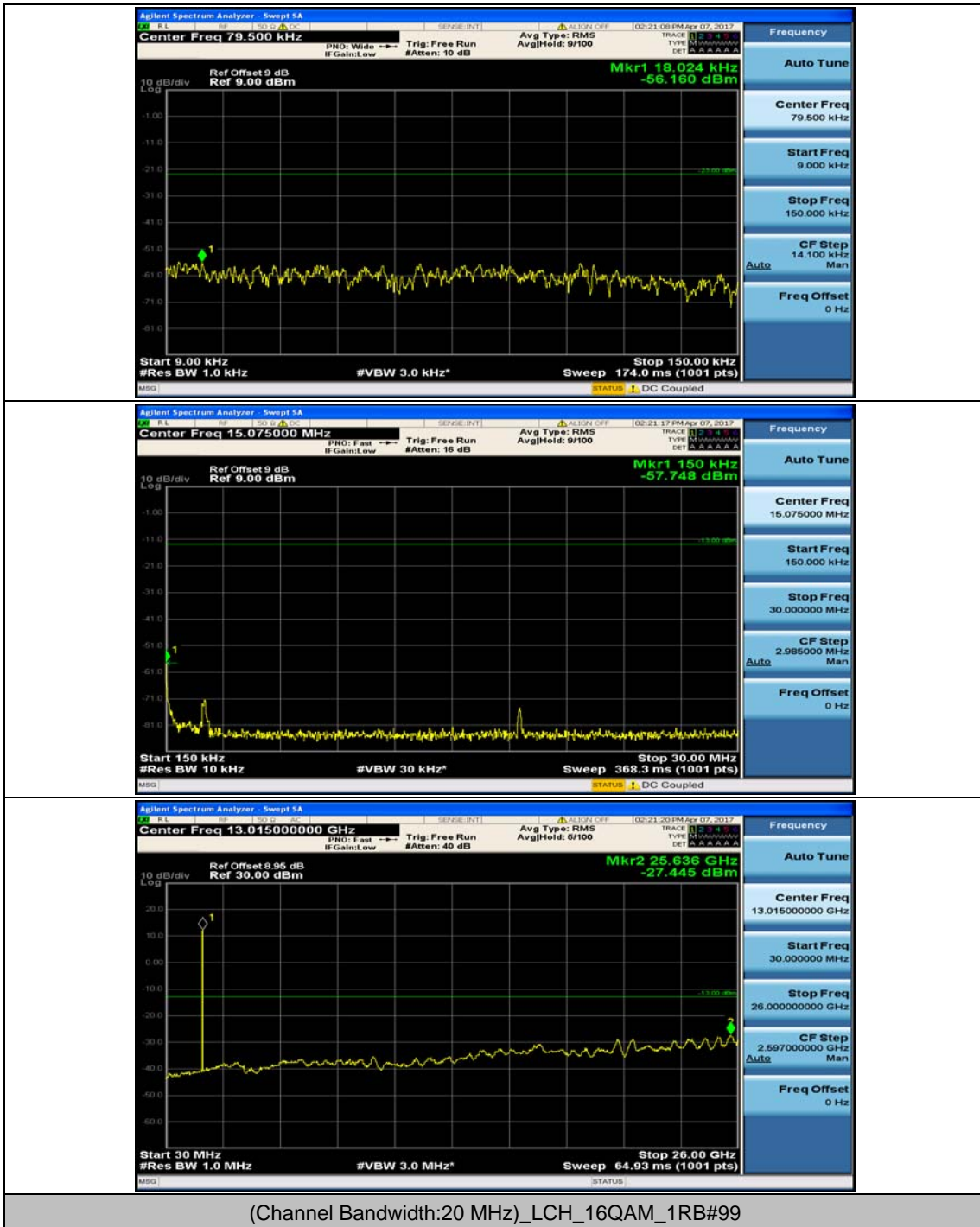


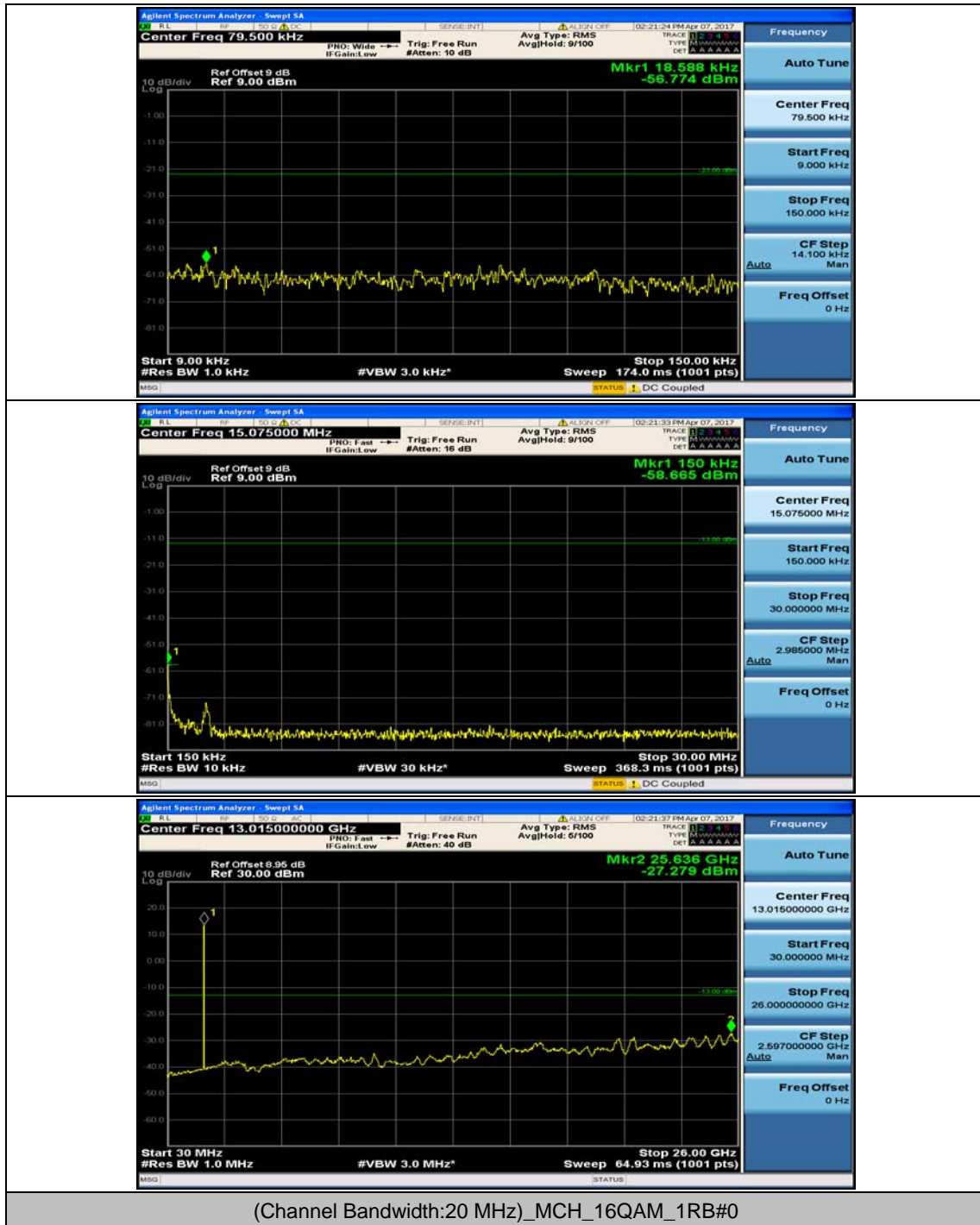


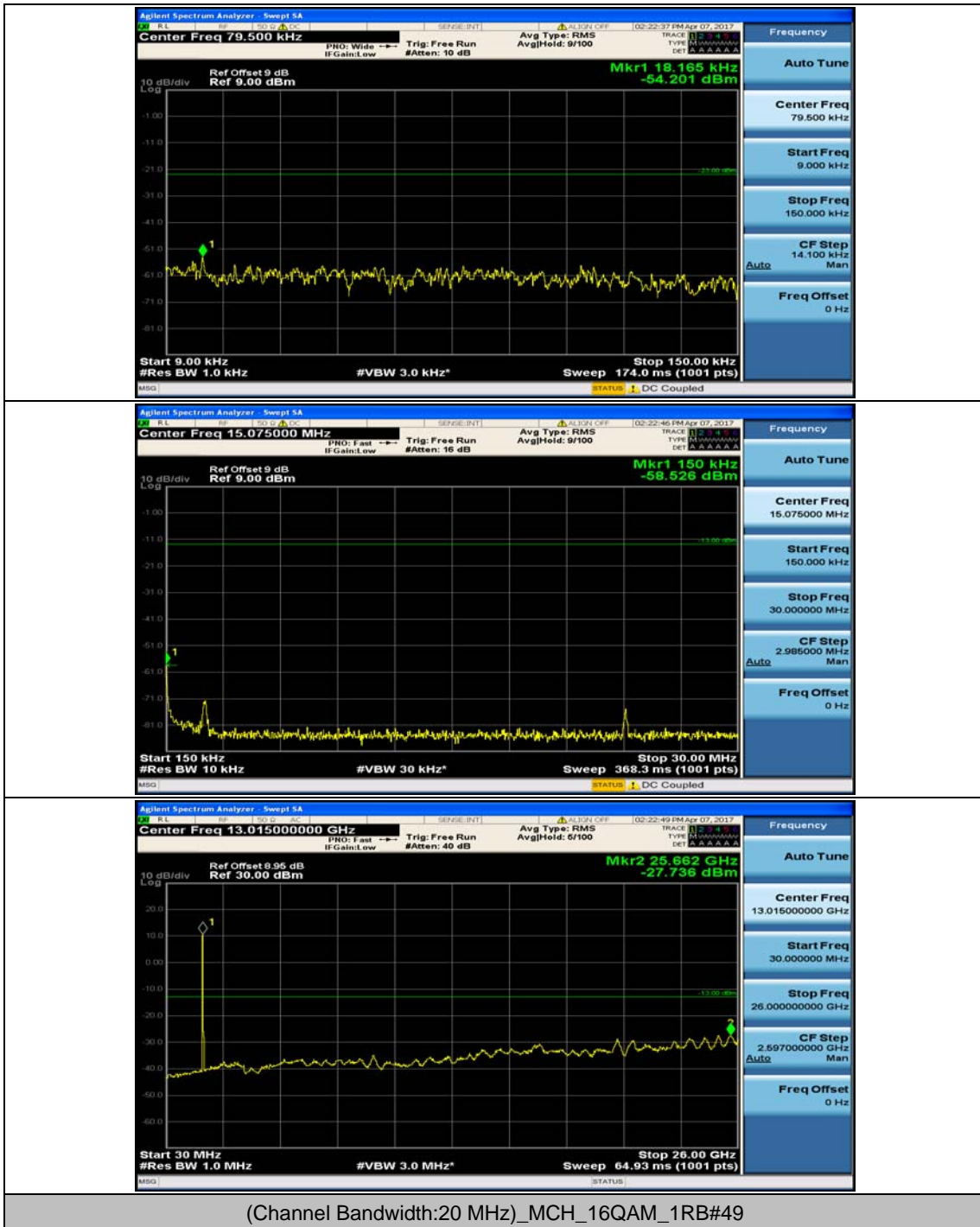


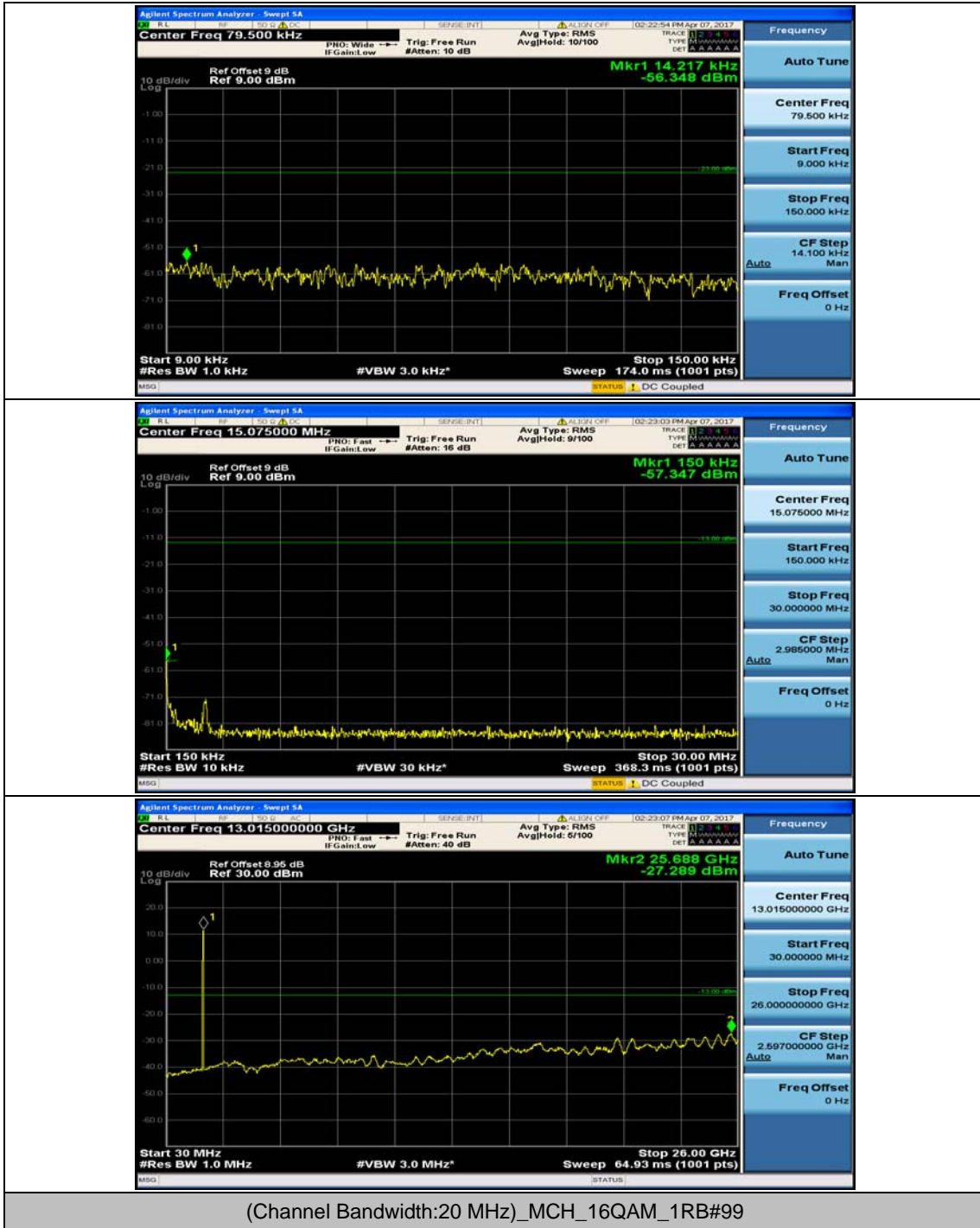


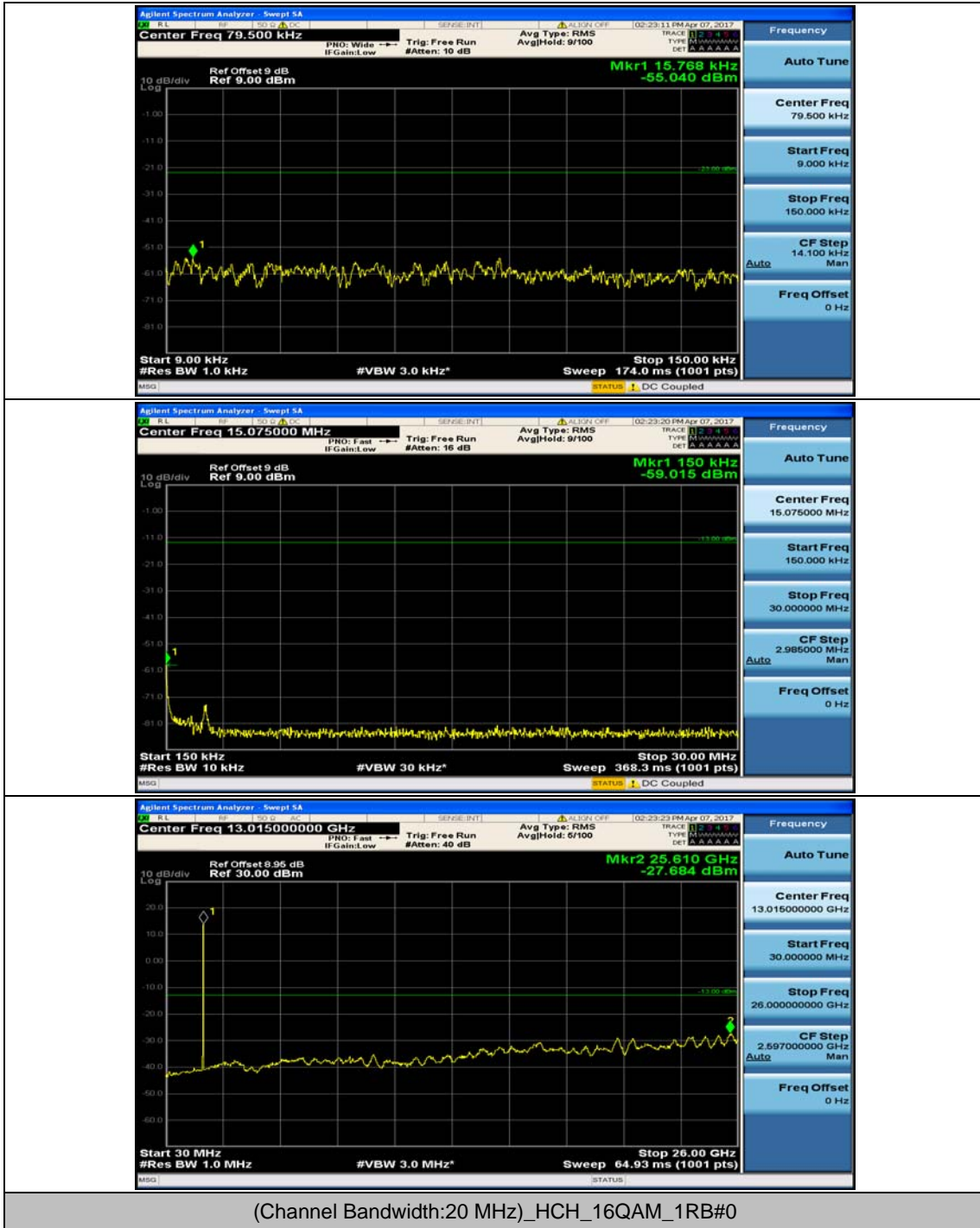




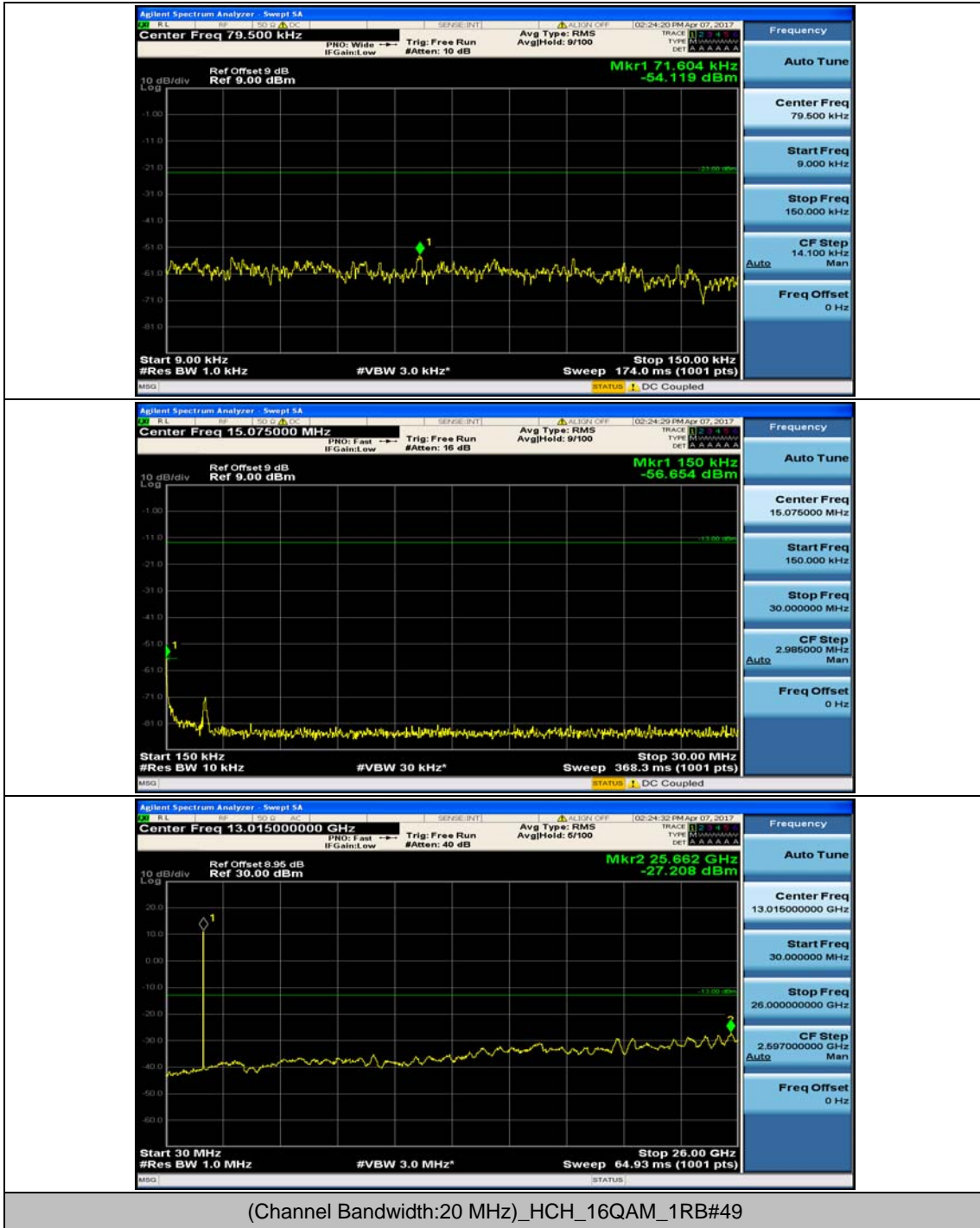


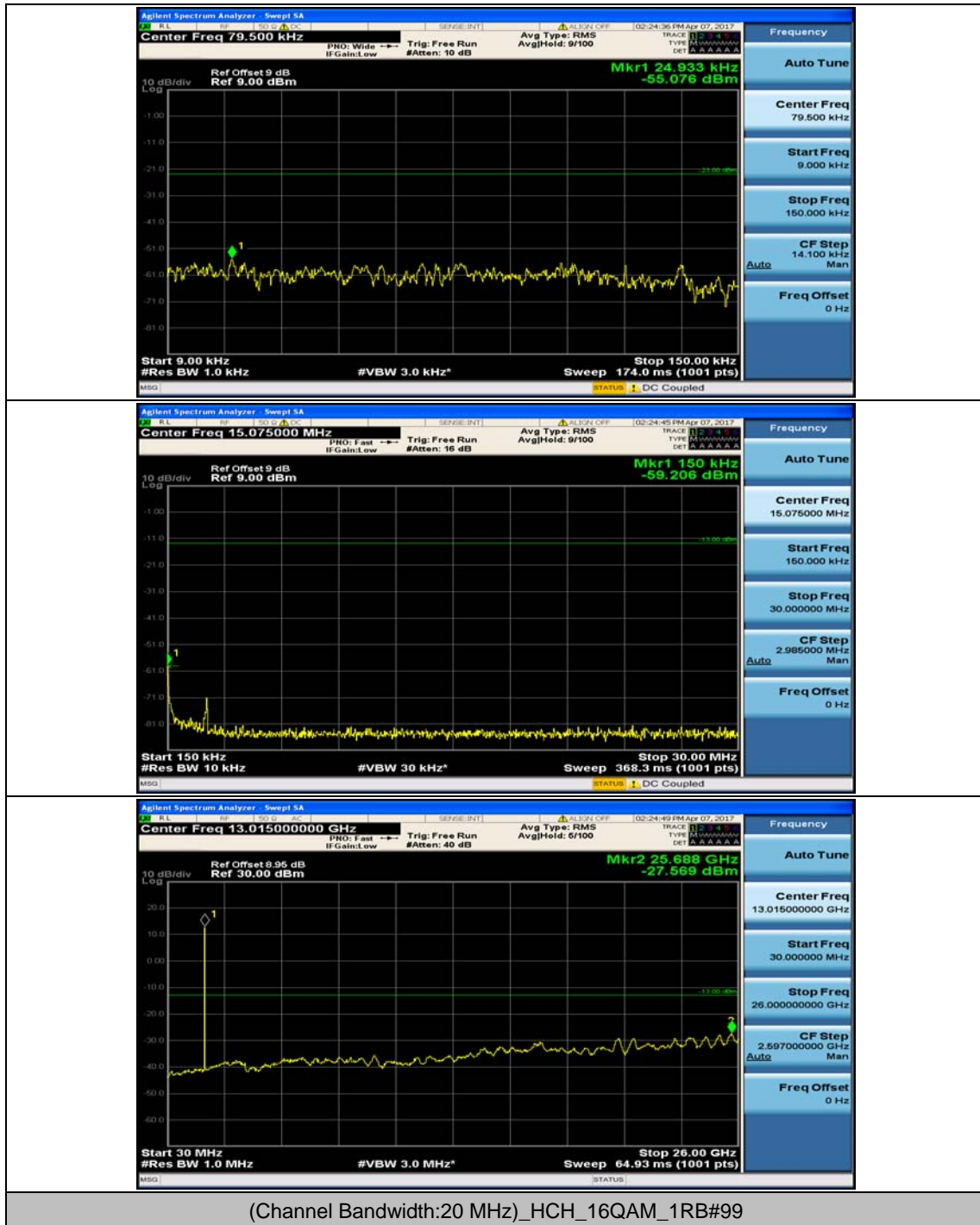


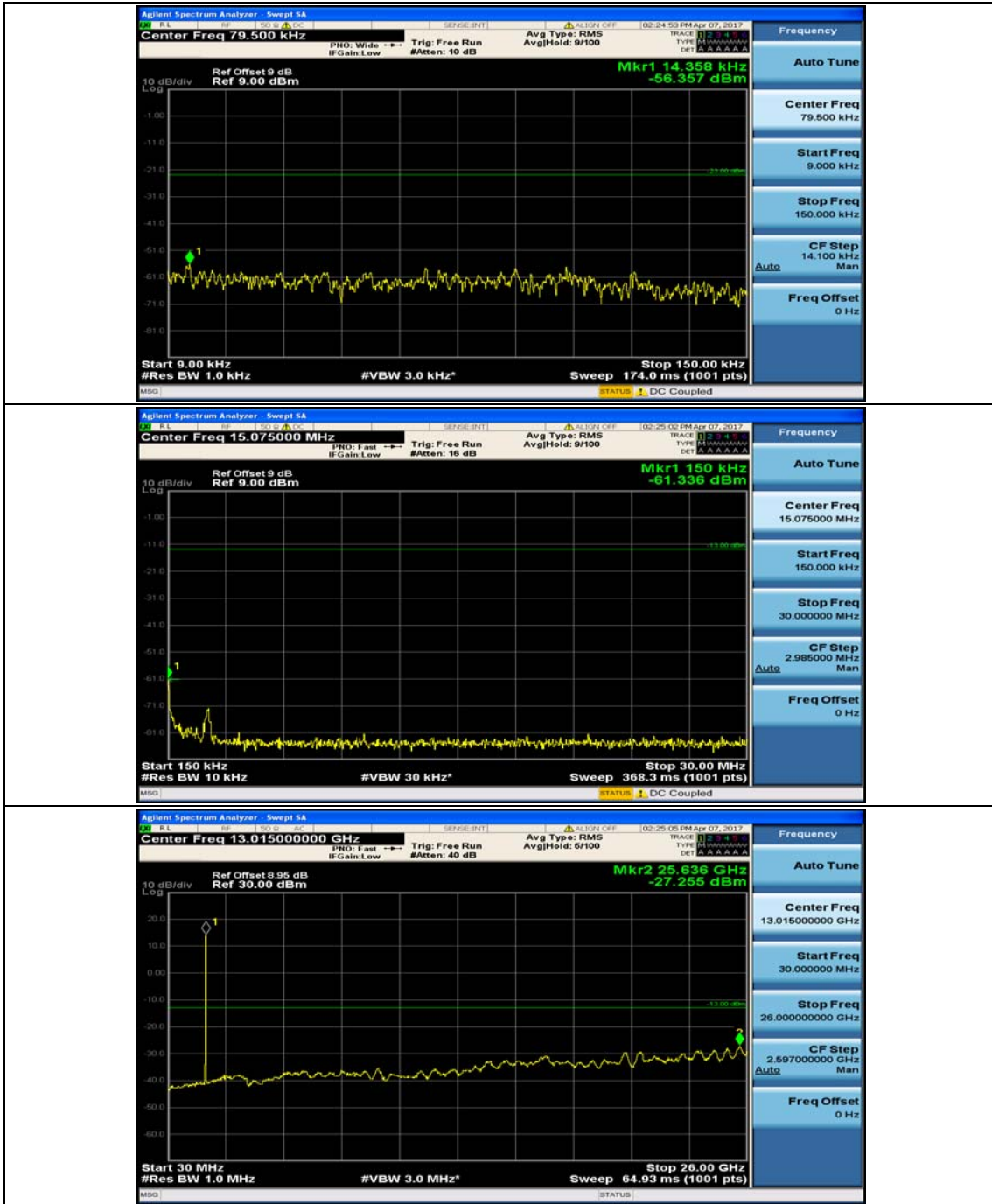




(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#0







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	1.39	0.000813	± 2.5	PASS
		VN	TN	1.62	0.000947	± 2.5	PASS
		VH	TN	1.17	0.000684	± 2.5	PASS
	MCH	VL	TN	3.13	0.001807	± 2.5	PASS
		VN	TN	2.68	0.001547	± 2.5	PASS
		VH	TN	-1.17	-0.000675	± 2.5	PASS
	HCH	VL	TN	1.25	0.000713	± 2.5	PASS
		VN	TN	4.43	0.002525	± 2.5	PASS
		VH	TN	-0.71	-0.000405	± 2.5	PASS
16QAM	LCH	VL	TN	-1.45	-0.000848	± 2.5	PASS
		VN	TN	-1.43	-0.000836	± 2.5	PASS
		VH	TN	1.24	0.000725	± 2.5	PASS
	MCH	VL	TN	-0.24	-0.000139	± 2.5	PASS
		VN	TN	-0.4	-0.000231	± 2.5	PASS
		VH	TN	4.21	0.002430	± 2.5	PASS
	HCH	VL	TN	0.39	0.000222	± 2.5	PASS
		VN	TN	0.37	0.000211	± 2.5	PASS
		VH	TN	0.51	0.000291	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.03	0.000602	± 2.5	PASS
		VN	-20	0.94	0.000549	± 2.5	PASS
		VN	-10	-1.44	-0.000842	± 2.5	PASS
		VN	0	3.64	0.002128	± 2.5	PASS
		VN	10	2.86	0.001672	± 2.5	PASS
		VN	20	1.53	0.000894	± 2.5	PASS
		VN	30	-1.27	-0.000742	± 2.5	PASS
		VN	40	-0.56	-0.000327	± 2.5	PASS
	MCH	VN	-30	-1.04	-0.000600	± 2.5	PASS
		VN	-20	3.29	0.001899	± 2.5	PASS

	VN	-10	1.59	0.000918	± 2.5	PASS			
		VN	0	3.76	0.002170	± 2.5	PASS		
		VN	10	1.73	0.000999	± 2.5	PASS		
		VN	20	0.24	0.000139	± 2.5	PASS		
		VN	30	1.62	0.000935	± 2.5	PASS		
		VN	40	0.22	0.000127	± 2.5	PASS		
		VN	50	-1.49	-0.000860	± 2.5	PASS		
	HCH	VN	-30	2.94	0.001676	± 2.5	PASS		
		VN	-20	3.11	0.001773	± 2.5	PASS		
		VN	-10	4.26	0.002428	± 2.5	PASS		
		VN	0	4.26	0.002428	± 2.5	PASS		
		VN	10	1.11	0.000633	± 2.5	PASS		
		VN	20	-0.71	-0.000405	± 2.5	PASS		
		VN	30	-1.76	-0.001003	± 2.5	PASS		
		VN	40	4.7	0.002679	± 2.5	PASS		
		VN	50	3.35	0.001910	± 2.5	PASS		
		16QAM	LCH	VN	-30	2.75	0.001608	± 2.5	PASS
				VN	-20	1.94	0.001134	± 2.5	PASS
VN	-10			4.32	0.002525	± 2.5	PASS		
VN	0			4.93	0.002882	± 2.5	PASS		
VN	10			1.46	0.000853	± 2.5	PASS		
VN	20			0.98	0.000573	± 2.5	PASS		
VN	30			3.41	0.001993	± 2.5	PASS		
VN	40			2.31	0.001350	± 2.5	PASS		
VN	50			4.48	0.002619	± 2.5	PASS		
MCH	VN		-30	3.23	0.001841	± 2.5	PASS		
	VN		-20	-0.37	-0.000211	± 2.5	PASS		
	VN		-10	3.47	0.001978	± 2.5	PASS		
	VN		0	1.05	0.000599	± 2.5	PASS		
	VN		10	-1.22	-0.000695	± 2.5	PASS		
	VN		20	2.62	0.001493	± 2.5	PASS		
	VN		30	-0.45	-0.000257	± 2.5	PASS		
	VN		40	2.55	0.001454	± 2.5	PASS		
	VN		50	4.52	0.002577	± 2.5	PASS		
HCH	VN	-30	-1.41	-0.000804	± 2.5	PASS			
	VN	-20	4.95	0.002822	± 2.5	PASS			
	VN	-10	3.38	0.001927	± 2.5	PASS			
	VN	0	2.74	0.001562	± 2.5	PASS			
	VN	10	0.65	0.000371	± 2.5	PASS			
	VN	20	0.13	0.000074	± 2.5	PASS			
	VN	30	1.5	0.000855	± 2.5	PASS			

		VN	40	4.79	0.002730	± 2.5	PASS
		VN	50	3.76	0.002143	± 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	2.47	0.001443	± 2.5	PASS
		VN	TN	4.22	0.002466	± 2.5	PASS
		VH	TN	0.69	0.000403	± 2.5	PASS
	MCH	VL	TN	-0.63	-0.000364	± 2.5	PASS
		VN	TN	3.76	0.002170	± 2.5	PASS
		VH	TN	0.02	0.000012	± 2.5	PASS
	HCH	VL	TN	-1.94	-0.001106	± 2.5	PASS
		VN	TN	1.66	0.000947	± 2.5	PASS
		VH	TN	-1.84	-0.001049	± 2.5	PASS
16QAM	LCH	VL	TN	-1.4	-0.000818	± 2.5	PASS
		VN	TN	3.08	0.001800	± 2.5	PASS
		VH	TN	-1.55	-0.000906	± 2.5	PASS
	MCH	VL	TN	-1.31	-0.000756	± 2.5	PASS
		VN	TN	-0.84	-0.000485	± 2.5	PASS
		VH	TN	-0.71	-0.000410	± 2.5	PASS
	HCH	VL	TN	-0.1	-0.000057	± 2.5	PASS
		VN	TN	0.74	0.000422	± 2.5	PASS
		VH	TN	4.24	0.002418	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.23	0.001887	± 2.5	PASS
		VN	-20	2.72	0.001589	± 2.5	PASS
		VN	-10	2.33	0.001361	± 2.5	PASS
		VN	0	2.48	0.001449	± 2.5	PASS
		VN	10	4.67	0.002729	± 2.5	PASS
		VN	20	1.09	0.000637	± 2.5	PASS
		VN	30	3.62	0.002115	± 2.5	PASS
		VN	40	2.87	0.001677	± 2.5	PASS
		VN	50	-1.16	-0.000678	± 2.5	PASS
	MCH	VN	-30	-1.54	-0.000889	± 2.5	PASS
		VN	-20	-0.21	-0.000121	± 2.5	PASS
		VN	-10	3.5	0.002020	± 2.5	PASS

		VN	0	-1.86	-0.001074	± 2.5	PASS		
		VN	10	1.2	0.000693	± 2.5	PASS		
		VN	20	3.74	0.002159	± 2.5	PASS		
		VN	30	3.88	0.002240	± 2.5	PASS		
		VN	40	1.95	0.001126	± 2.5	PASS		
		VN	50	3.48	0.002009	± 2.5	PASS		
	HCH	VN	-30	2.08	0.001186	± 2.5	PASS		
		VN	-20	0.66	0.000376	± 2.5	PASS		
		VN	-10	1.19	0.000679	± 2.5	PASS		
		VN	0	1.53	0.000873	± 2.5	PASS		
		VN	10	3.05	0.001739	± 2.5	PASS		
		VN	20	2.19	0.001249	± 2.5	PASS		
		VN	30	4.9	0.002794	± 2.5	PASS		
		VN	40	0.25	0.000143	± 2.5	PASS		
		VN	50	-0.41	-0.000234	± 2.5	PASS		
		16QAM	LCH	VN	-30	-1.24	-0.000716	± 2.5	PASS
				VN	-20	2.97	0.001714	± 2.5	PASS
				VN	-10	-1.87	-0.001079	± 2.5	PASS
VN	0			3.7	0.002136	± 2.5	PASS		
VN	10			3.78	0.002182	± 2.5	PASS		
VN	20			1.75	0.001010	± 2.5	PASS		
VN	30			1.87	0.001079	± 2.5	PASS		
VN	40			-0.92	-0.000531	± 2.5	PASS		
VN	50			2.67	0.001541	± 2.5	PASS		
MCH	VN		-30	0.95	0.000542	± 2.5	PASS		
	VN		-20	3.17	0.001808	± 2.5	PASS		
	VN		-10	4.07	0.002321	± 2.5	PASS		
	VN		0	-1.16	-0.000662	± 2.5	PASS		
	VN		10	1.15	0.000656	± 2.5	PASS		
	VN		20	-0.85	-0.000485	± 2.5	PASS		
	VN		30	4.65	0.002652	± 2.5	PASS		
	VN		40	1.39	0.000793	± 2.5	PASS		
	VN		50	0.09	0.000051	± 2.5	PASS		
HCH	VN		-30	2.69	0.001534	± 2.5	PASS		
	VN		-20	2.24	0.001277	± 2.5	PASS		
	VN		-10	-0.58	-0.000331	± 2.5	PASS		
	VN		0	2.03	0.001158	± 2.5	PASS		
	VN		10	4.09	0.002332	± 2.5	PASS		
	VN		20	-1.47	-0.000838	± 2.5	PASS		
	VN		30	-1.52	-0.000867	± 2.5	PASS		
	VN		40	-0.68	-0.000388	± 2.5	PASS		

		VN	50	-1.25	-0.000713	± 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	0.99	0.000578	± 2.5	PASS
		VN	TN	3.72	0.002172	± 2.5	PASS
		VH	TN	4.24	0.002476	± 2.5	PASS
	MCH	VL	TN	-0.74	-0.000427	± 2.5	PASS
		VN	TN	-1.16	-0.000670	± 2.5	PASS
		VH	TN	4.07	0.002349	± 2.5	PASS
	HCH	VL	TN	1.68	0.000959	± 2.5	PASS
		VN	TN	-0.09	-0.000051	± 2.5	PASS
		VH	TN	-0.09	-0.000051	± 2.5	PASS
16QAM	LCH	VL	TN	1.91	0.001115	± 2.5	PASS
		VN	TN	4.89	0.002855	± 2.5	PASS
		VH	TN	0.6	0.000350	± 2.5	PASS
	MCH	VL	TN	1.06	0.000612	± 2.5	PASS
		VN	TN	-1.94	-0.001120	± 2.5	PASS
		VH	TN	4.79	0.002765	± 2.5	PASS
	HCH	VL	TN	1.23	0.000702	± 2.5	PASS
		VN	TN	2.47	0.001409	± 2.5	PASS
		VH	TN	-1.97	-0.001124	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.89	-0.001104	± 2.5	PASS
		VN	-20	-1.77	-0.001034	± 2.5	PASS
		VN	-10	-1.75	-0.001022	± 2.5	PASS
		VN	0	2.06	0.001203	± 2.5	PASS
		VN	10	4.04	0.002359	± 2.5	PASS
		VN	20	-1.23	-0.000718	± 2.5	PASS
		VN	30	1.4	0.000818	± 2.5	PASS
		VN	40	-0.18	-0.000105	± 2.5	PASS
		VN	50	-1.16	-0.000677	± 2.5	PASS
	MCH	VN	-30	4.5	0.002597	± 2.5	PASS
		VN	-20	-1.23	-0.000710	± 2.5	PASS
		VN	-10	0.29	0.000167	± 2.5	PASS
		VN	0	0.66	0.000381	± 2.5	PASS

		VN	10	-0.55	-0.000317	± 2.5	PASS
		VN	20	-0.39	-0.000225	± 2.5	PASS
		VN	30	-1.8	-0.001039	± 2.5	PASS
		VN	40	-1.27	-0.000733	± 2.5	PASS
		VN	50	3.65	0.002107	± 2.5	PASS
	HCH	VN	-30	1.26	0.000719	± 2.5	PASS
		VN	-20	2.36	0.001237	± 2.5	PASS
		VN	-10	2.5	0.001311	± 2.5	PASS
		VN	0	-1.07	-0.000561	± 2.5	PASS
		VN	10	1.15	0.000603	± 2.5	PASS
		VN	20	1.86	0.000975	± 2.5	PASS
		VN	30	-0.47	-0.000246	± 2.5	PASS
		VN	40	2.29	0.001201	± 2.5	PASS
		VN	50	-1.08	-0.000566	± 2.5	PASS
		16QAM	LCH	VN	-30	-1.77	-0.001022
VN	-20			-1.76	-0.001016	± 2.5	PASS
VN	-10			2.23	0.001287	± 2.5	PASS
VN	0			-1.12	-0.000646	± 2.5	PASS
VN	10			0.25	0.000144	± 2.5	PASS
VN	20			1.07	0.000618	± 2.5	PASS
VN	30			0.44	0.000254	± 2.5	PASS
VN	40			-0.94	-0.000543	± 2.5	PASS
VN	50			3.66	0.002113	± 2.5	PASS
MCH	VN		-30	1.29	0.000736	± 2.5	PASS
	VN		-20	-1.57	-0.000896	± 2.5	PASS
	VN		-10	0.23	0.000131	± 2.5	PASS
	VN		0	1.5	0.000856	± 2.5	PASS
	VN		10	0.69	0.000394	± 2.5	PASS
	VN		20	2.49	0.001421	± 2.5	PASS
	VN		30	4.77	0.002722	± 2.5	PASS
	VN		40	-1.57	-0.000896	± 2.5	PASS
	VN		50	1.27	0.000725	± 2.5	PASS
HCH	VN		-30	2.76	0.001447	± 2.5	PASS
	VN		-20	-1.08	-0.000566	± 2.5	PASS
	VN		-10	-0.49	-0.000257	± 2.5	PASS
	VN		0	-0.63	-0.000330	± 2.5	PASS
	VN		10	2.87	0.001505	± 2.5	PASS
	VN		20	2.78	0.001457	± 2.5	PASS
	VN		30	4.56	0.002391	± 2.5	PASS
	VN		40	-1.21	-0.000634	± 2.5	PASS
	VN		50	2.08	0.001090	± 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	1.66	0.000968	± 2.5	PASS
		VN	TN	0.55	0.000321	± 2.5	PASS
		VH	TN	-0.97	-0.000566	± 2.5	PASS
	MCH	VL	TN	-0.03	-0.000017	± 2.5	PASS
		VN	TN	-1.24	-0.000716	± 2.5	PASS
		VH	TN	-0.52	-0.000300	± 2.5	PASS
	HCH	VL	TN	-1.57	-0.000897	± 2.5	PASS
		VN	TN	3.14	0.001794	± 2.5	PASS
		VH	TN	-0.57	-0.000326	± 2.5	PASS
16QAM	LCH	VL	TN	-1.78	-0.001038	± 2.5	PASS
		VN	TN	-0.28	-0.000163	± 2.5	PASS
		VH	TN	-1.79	-0.001044	± 2.5	PASS
	MCH	VL	TN	0.72	0.000416	± 2.5	PASS
		VN	TN	2.67	0.001541	± 2.5	PASS
		VH	TN	2.91	0.001680	± 2.5	PASS
	HCH	VL	TN	-1.55	-0.000886	± 2.5	PASS
		VN	TN	-1.7	-0.000971	± 2.5	PASS
		VH	TN	3.32	0.001897	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	4.99	0.002910	± 2.5	PASS
		VN	-20	-0.9	-0.000525	± 2.5	PASS
		VN	-10	0.38	0.000222	± 2.5	PASS
		VN	0	3.82	0.002227	± 2.5	PASS
		VN	10	4.85	0.002828	± 2.5	PASS
		VN	20	2.61	0.001522	± 2.5	PASS
		VN	30	0.69	0.000402	± 2.5	PASS
		VN	40	2.04	0.001190	± 2.5	PASS
		VN	50	3.97	0.002315	± 2.5	PASS
	MCH	VN	-30	-0.22	-0.000127	± 2.5	PASS
		VN	-20	4.88	0.002817	± 2.5	PASS
		VN	-10	2.07	0.001195	± 2.5	PASS
		VN	0	-1.91	-0.001102	± 2.5	PASS
		VN	10	2.83	0.001633	± 2.5	PASS
		VN	20	4.58	0.002644	± 2.5	PASS

		VN	30	4.13	0.002384	± 2.5	PASS
		VN	40	3.21	0.001853	± 2.5	PASS
		VN	50	-0.03	-0.000017	± 2.5	PASS
	HCH	VN	-30	0.51	0.000291	± 2.5	PASS
		VN	-20	1.9	0.001086	± 2.5	PASS
		VN	-10	-1.82	-0.001040	± 2.5	PASS
		VN	0	0.93	0.000531	± 2.5	PASS
		VN	10	3.33	0.001903	± 2.5	PASS
		VN	20	2.76	0.001577	± 2.5	PASS
		VN	30	3.31	0.001891	± 2.5	PASS
		VN	40	-0.67	-0.000383	± 2.5	PASS
		VN	50	0.43	0.000246	± 2.5	PASS
QPSK	LCH	VN	-30	3.61	0.002084	± 2.5	PASS
		VN	-20	-0.65	-0.000375	± 2.5	PASS
		VN	-10	3.57	0.002061	± 2.5	PASS
		VN	0	4.76	0.002747	± 2.5	PASS
		VN	10	2.38	0.001374	± 2.5	PASS
		VN	20	2.59	0.001495	± 2.5	PASS
		VN	30	-1.5	-0.000866	± 2.5	PASS
		VN	40	0.23	0.000133	± 2.5	PASS
	MCH	VN	50	1.36	0.000785	± 2.5	PASS
		VN	-30	1.46	0.000834	± 2.5	PASS
		VN	-20	-0.63	-0.000360	± 2.5	PASS
		VN	-10	4.04	0.002309	± 2.5	PASS
		VN	0	2.58	0.001474	± 2.5	PASS
		VN	10	0.5	0.000286	± 2.5	PASS
		VN	20	4.48	0.002560	± 2.5	PASS
		VN	30	-1.1	-0.000629	± 2.5	PASS
	HCH	VN	40	1.82	0.001040	± 2.5	PASS
		VN	50	2	0.001143	± 2.5	PASS
		VN	-30	-0.08	-0.000046	± 2.5	PASS
		VN	-20	-1.69	-0.000966	± 2.5	PASS
		VN	-10	-1.96	-0.001120	± 2.5	PASS
		VN	0	2.83	0.001617	± 2.5	PASS
		VN	10	-0.04	-0.000023	± 2.5	PASS
		VN	20	2.96	0.001691	± 2.5	PASS
VN	30	3.92	0.002240	± 2.5	PASS		
VN	40	1.91	0.001091	± 2.5	PASS		
VN	50	2.44	0.001394	± 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	3.51	0.002044	± 2.5	PASS
		VN	TN	-0.63	-0.000367	± 2.5	PASS
		VH	TN	4.87	0.002836	± 2.5	PASS
	MCH	VL	TN	-0.13	-0.000075	± 2.5	PASS
		VN	TN	0.33	0.000190	± 2.5	PASS
		VH	TN	3.98	0.002297	± 2.5	PASS
	HCH	VL	TN	-1.3	-0.000744	± 2.5	PASS
		VN	TN	4.32	0.002472	± 2.5	PASS
		VH	TN	0.09	0.000052	± 2.5	PASS
16QAM	LCH	VL	TN	4.73	0.002754	± 2.5	PASS
		VN	TN	4.09	0.002381	± 2.5	PASS
		VH	TN	3.84	0.002236	± 2.5	PASS
	MCH	VL	TN	0.93	0.000537	± 2.5	PASS
		VN	TN	4.97	0.002869	± 2.5	PASS
		VH	TN	1.18	0.000681	± 2.5	PASS
	HCH	VL	TN	-1.5	-0.000858	± 2.5	PASS
		VN	TN	2.01	0.001150	± 2.5	PASS
		VH	TN	-0.73	-0.000418	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.08	0.001793	± 2.5	PASS
		VN	-20	1.35	0.000786	± 2.5	PASS
		VN	-10	2.63	0.001531	± 2.5	PASS
		VN	0	-1.22	-0.000710	± 2.5	PASS
		VN	10	-1.14	-0.000664	± 2.5	PASS
		VN	20	-1.59	-0.000926	± 2.5	PASS
		VN	30	0.03	0.000017	± 2.5	PASS
		VN	40	-0.04	-0.000023	± 2.5	PASS
		VN	50	2	0.001164	± 2.5	PASS
	MCH	VN	-30	0.77	0.000444	± 2.5	PASS
		VN	-20	2.82	0.001628	± 2.5	PASS
		VN	-10	0.89	0.000514	± 2.5	PASS
		VN	0	-0.12	-0.000069	± 2.5	PASS
		VN	10	1.85	0.001068	± 2.5	PASS
		VN	20	2.64	0.001524	± 2.5	PASS

		VN	30	1.71	0.000987	± 2.5	PASS
		VN	40	1.21	0.000698	± 2.5	PASS
		VN	50	1.94	0.001120	± 2.5	PASS
	HCH	VN	-30	4.6	0.002632	± 2.5	PASS
		VN	-20	-0.38	-0.000217	± 2.5	PASS
		VN	-10	2.37	0.001356	± 2.5	PASS
		VN	0	2.69	0.001539	± 2.5	PASS
		VN	10	1.86	0.001064	± 2.5	PASS
		VN	20	-1.13	-0.000647	± 2.5	PASS
		VN	30	2.57	0.001471	± 2.5	PASS
		VN	40	-1.04	-0.000595	± 2.5	PASS
		VN	50	3.75	0.002146	± 2.5	PASS
16QAM	LCH	VN	-30	0.86	0.000496	± 2.5	PASS
		VN	-20	1.3	0.000750	± 2.5	PASS
		VN	-10	-0.2	-0.000115	± 2.5	PASS
		VN	0	-0.48	-0.000277	± 2.5	PASS
		VN	10	0.91	0.000525	± 2.5	PASS
		VN	20	0.33	0.000190	± 2.5	PASS
		VN	30	-0.26	-0.000150	± 2.5	PASS
		VN	40	0.95	0.000548	± 2.5	PASS
		VN	50	2.03	0.001172	± 2.5	PASS
	MCH	VN	-30	4.2	0.002403	± 2.5	PASS
		VN	-20	3.24	0.001854	± 2.5	PASS
		VN	-10	1.4	0.000801	± 2.5	PASS
		VN	0	3.04	0.001740	± 2.5	PASS
		VN	10	2.17	0.001242	± 2.5	PASS
		VN	20	4.11	0.002352	± 2.5	PASS
		VN	30	2.31	0.001322	± 2.5	PASS
		VN	40	-1.74	-0.000996	± 2.5	PASS
		VN	50	-1.71	-0.000979	± 2.5	PASS
	HCH	VN	-30	4.99	0.002856	± 2.5	PASS
		VN	-20	0.46	0.000263	± 2.5	PASS
		VN	-10	0.78	0.000446	± 2.5	PASS
		VN	0	3.6	0.002060	± 2.5	PASS
		VN	10	0.46	0.000263	± 2.5	PASS
		VN	20	3.65	0.002089	± 2.5	PASS
		VN	30	3.05	0.001745	± 2.5	PASS
		VN	40	3.77	0.002157	± 2.5	PASS
		VN	50	-1.65	-0.000944	± 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	4.54	0.002640	± 2.5	PASS
		VN	TN	3.54	0.002058	± 2.5	PASS
		VH	TN	2.02	0.001174	± 2.5	PASS
	MCH	VL	TN	4.2	0.002424	± 2.5	PASS
		VN	TN	2.94	0.001697	± 2.5	PASS
		VH	TN	3.67	0.002118	± 2.5	PASS
	HCH	VL	TN	-0.93	-0.000533	± 2.5	PASS
		VN	TN	3.65	0.002092	± 2.5	PASS
		VH	TN	-0.15	-0.000086	± 2.5	PASS
16QAM	LCH	VL	TN	-1.46	-0.000849	± 2.5	PASS
		VN	TN	4.55	0.002645	± 2.5	PASS
		VH	TN	0.68	0.000395	± 2.5	PASS
	MCH	VL	TN	1.22	0.000704	± 2.5	PASS
		VN	TN	1.04	0.000600	± 2.5	PASS
		VH	TN	1.43	0.000825	± 2.5	PASS
	HCH	VL	TN	1.55	0.000888	± 2.5	PASS
		VN	TN	-0.91	-0.000521	± 2.5	PASS
		VH	TN	3.77	0.002160	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.69	0.001564	± 2.5	PASS
		VN	-20	2.24	0.001302	± 2.5	PASS
		VN	-10	-1.28	-0.000744	± 2.5	PASS
		VN	0	2.62	0.001523	± 2.5	PASS
		VN	10	4.38	0.002547	± 2.5	PASS
		VN	20	2.06	0.001198	± 2.5	PASS
		VN	30	4.84	0.002814	± 2.5	PASS
		VN	40	1.05	0.000610	± 2.5	PASS
		VN	50	0.2	0.000116	± 2.5	PASS
	MCH	VN	-30	4.49	0.002592	± 2.5	PASS
		VN	-20	1.19	0.000687	± 2.5	PASS
		VN	-10	3.77	0.002176	± 2.5	PASS
		VN	0	0.78	0.000450	± 2.5	PASS
		VN	10	2.43	0.001403	± 2.5	PASS
		VN	20	2.13	0.001229	± 2.5	PASS

	VN	30	-1.2	-0.000693	± 2.5	PASS	
		40	1.28	0.000739	± 2.5	PASS	
		50	-1.11	-0.000641	± 2.5	PASS	
	HCH	VN	-30	-0.18	-0.000103	± 2.5	PASS
		VN	-20	2.84	0.001628	± 2.5	PASS
		VN	-10	-1.92	-0.001100	± 2.5	PASS
		VN	0	0.83	0.000476	± 2.5	PASS
		VN	10	-0.49	-0.000281	± 2.5	PASS
		VN	20	3.56	0.002040	± 2.5	PASS
		VN	30	2.5	0.001433	± 2.5	PASS
		VN	40	0.4	0.000229	± 2.5	PASS
		VN	50	-1.94	-0.001112	± 2.5	PASS
16QAM	LCH	VN	-30	3.33	0.001922	± 2.5	PASS
		VN	-20	3.64	0.002101	± 2.5	PASS
		VN	-10	-0.17	-0.000098	± 2.5	PASS
		VN	0	-1.83	-0.001056	± 2.5	PASS
		VN	10	3.64	0.002101	± 2.5	PASS
		VN	20	3.51	0.002026	± 2.5	PASS
		VN	30	3.92	0.002263	± 2.5	PASS
		VN	40	0.12	0.000069	± 2.5	PASS
		VN	50	3.18	0.001835	± 2.5	PASS
	MCH	VN	-30	2.79	0.001599	± 2.5	PASS
		VN	-20	3.92	0.002246	± 2.5	PASS
		VN	-10	4.28	0.002453	± 2.5	PASS
		VN	0	4.54	0.002602	± 2.5	PASS
		VN	10	2.22	0.001272	± 2.5	PASS
		VN	20	1.15	0.000659	± 2.5	PASS
		VN	30	4.95	0.002837	± 2.5	PASS
		VN	40	-1.32	-0.000756	± 2.5	PASS
		VN	50	-1.07	-0.000613	± 2.5	PASS
	HCH	VN	-30	0.13	0.000074	± 2.5	PASS
		VN	-20	-1.96	-0.001123	± 2.5	PASS
		VN	-10	1.56	0.000894	± 2.5	PASS
		VN	0	-0.17	-0.000097	± 2.5	PASS
		VN	10	3.31	0.001897	± 2.5	PASS
		VN	20	2.12	0.001215	± 2.5	PASS
		VN	30	-1.44	-0.000825	± 2.5	PASS
		VN	40	-1.05	-0.000602	± 2.5	PASS
		VN	50	0.25	0.000143	± 2.5	PASS