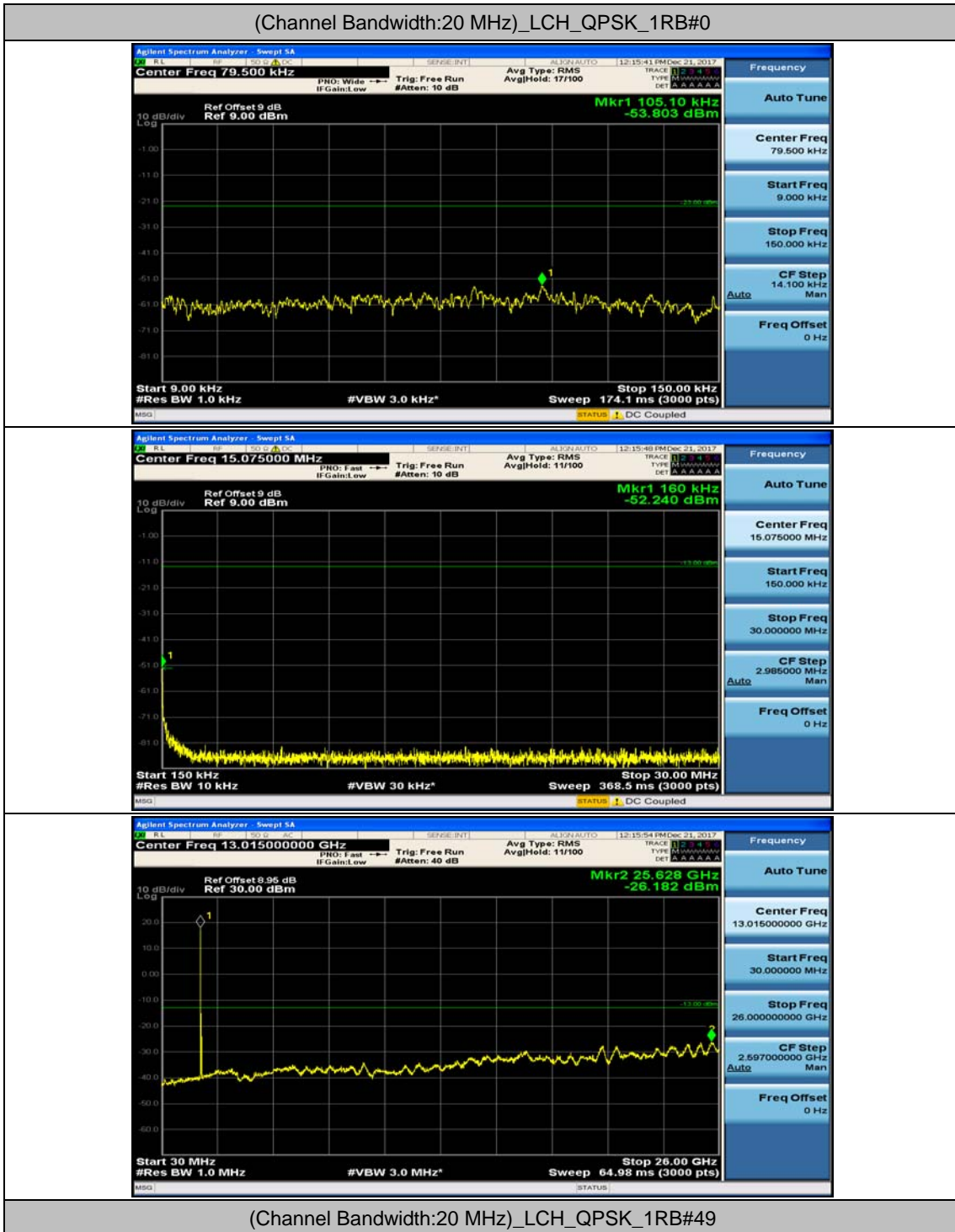
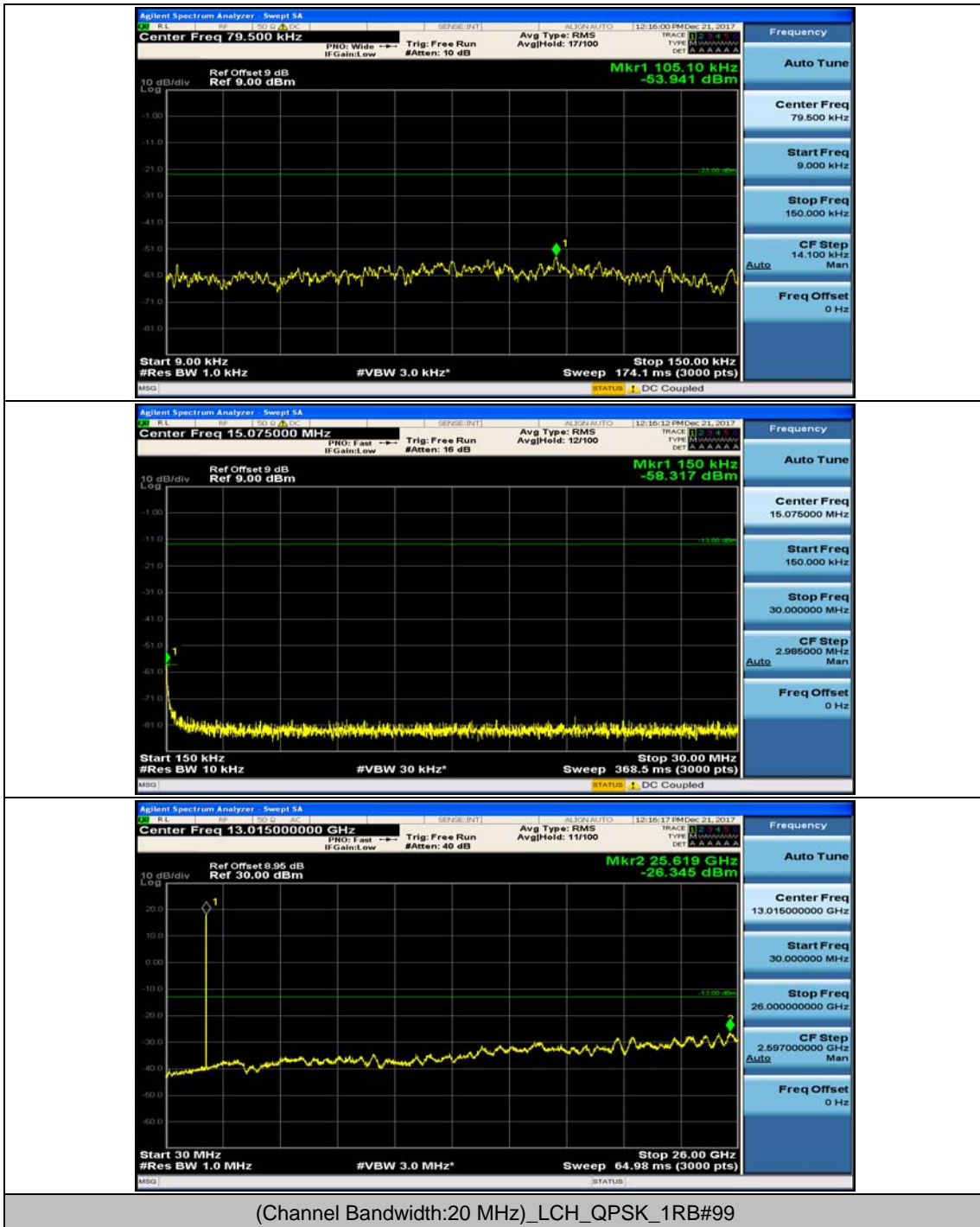
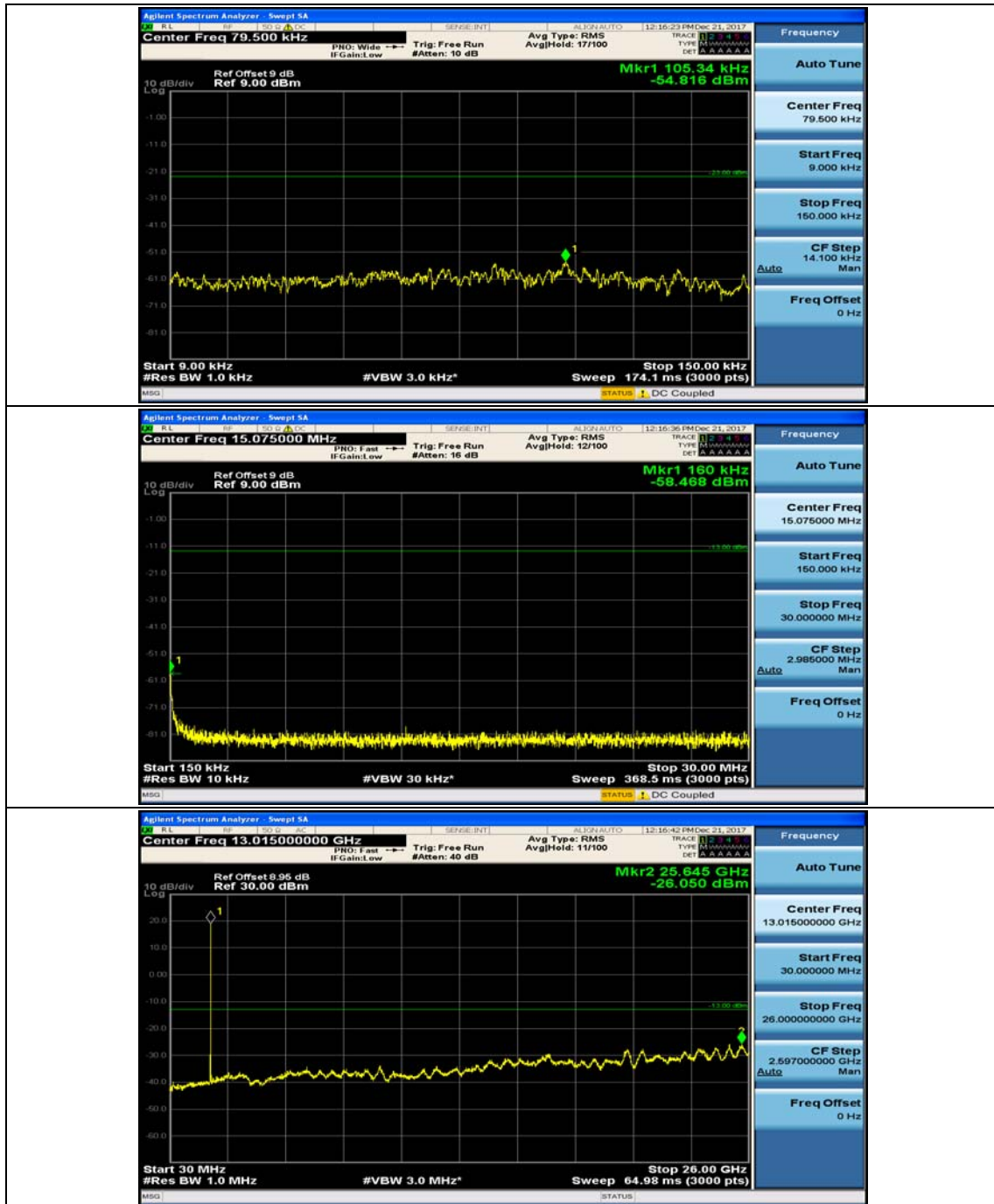


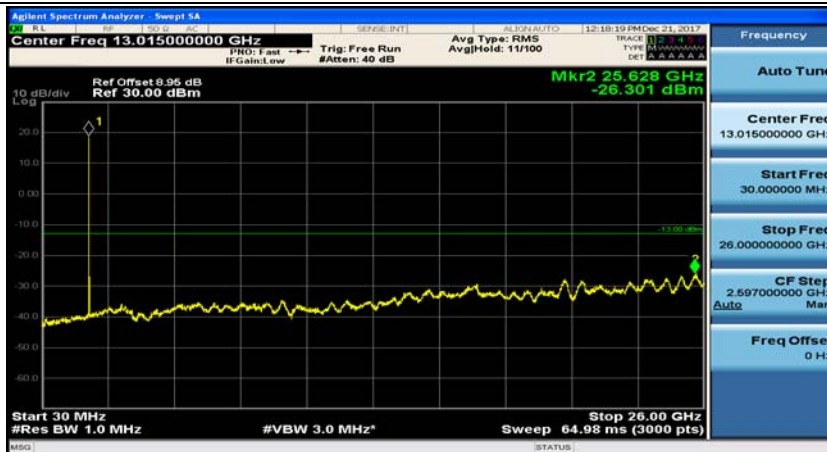
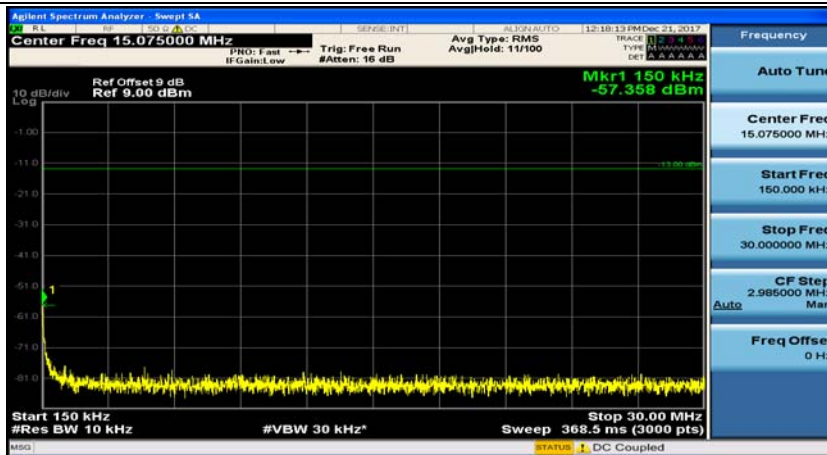
### Channel Bandwidth: 20 MHz



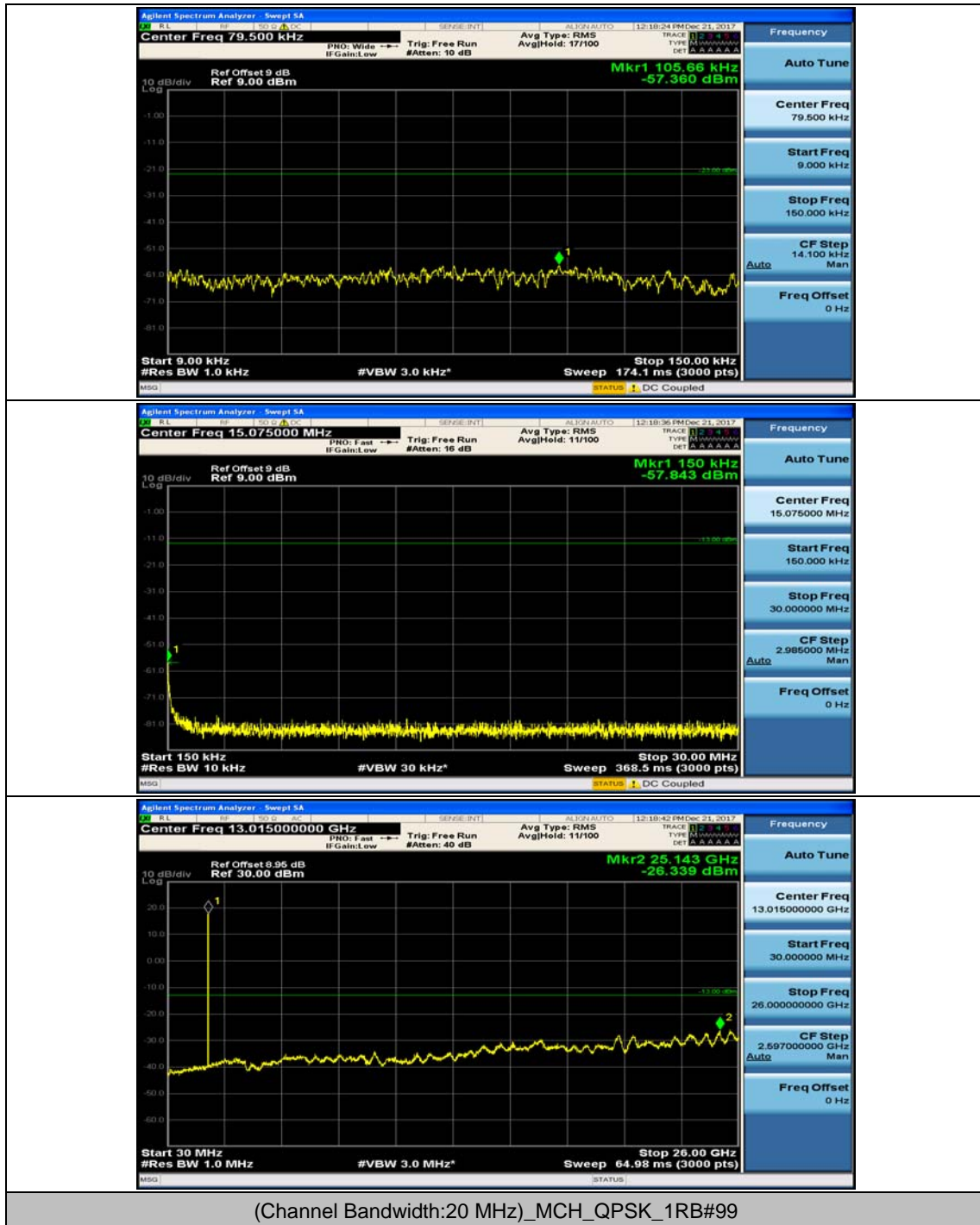


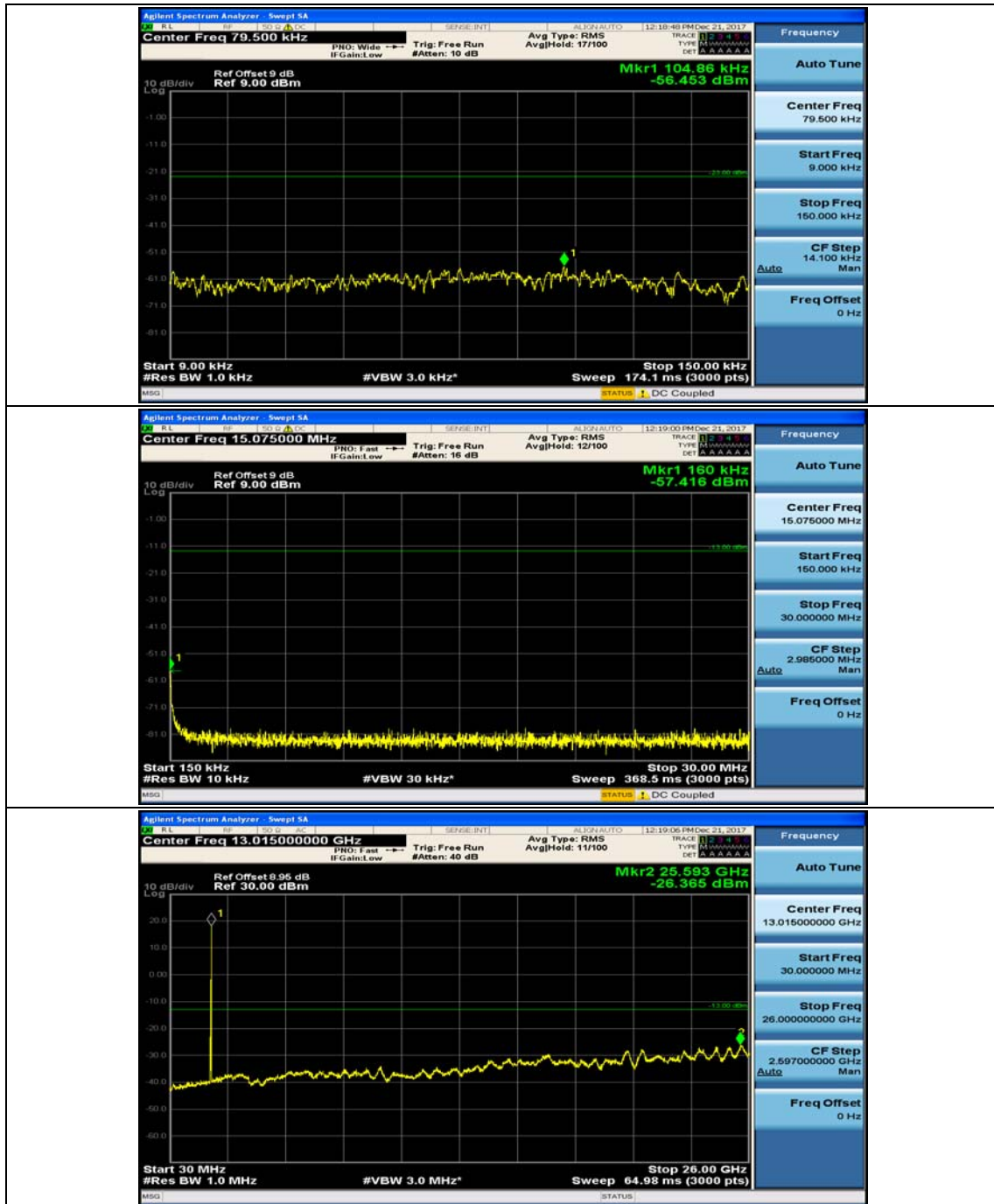


(Channel Bandwidth:20 MHz)\_MCH\_QPSK\_1RB#0



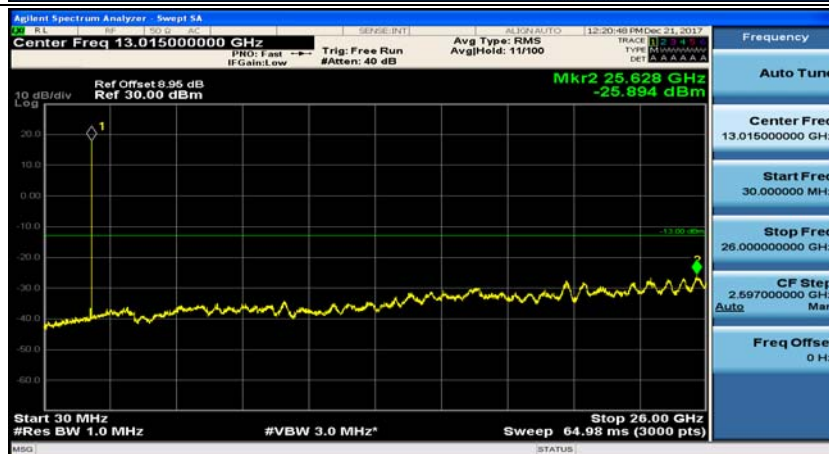
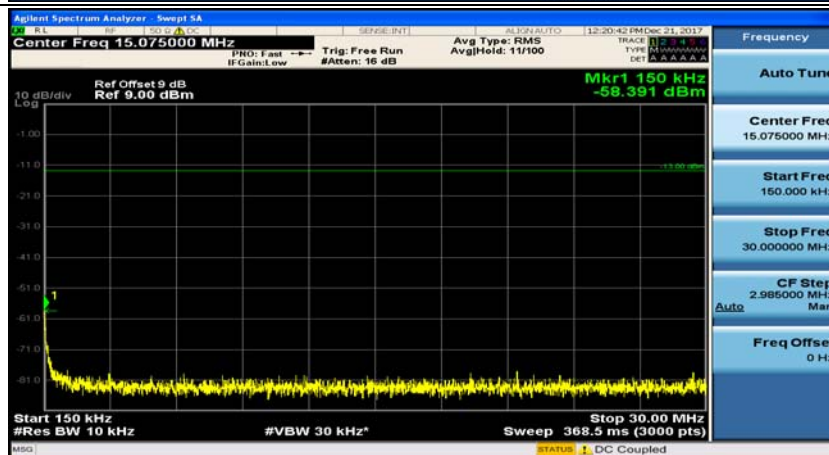
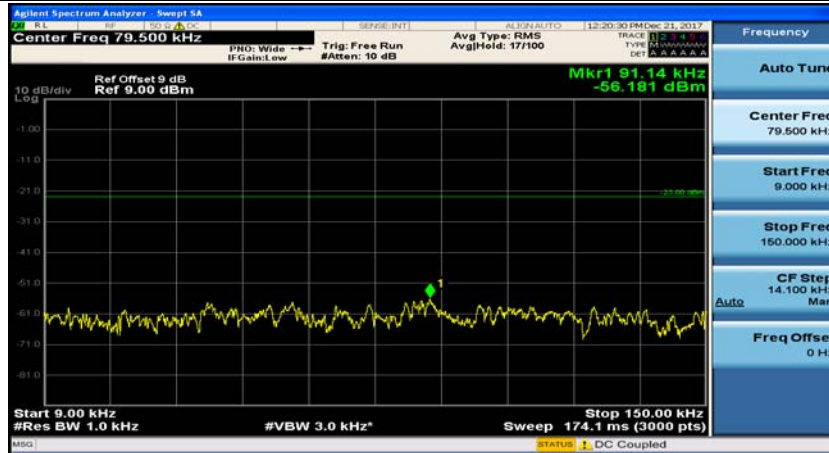
(Channel Bandwidth:20 MHz)\_MCH\_QPSK\_1RB#49



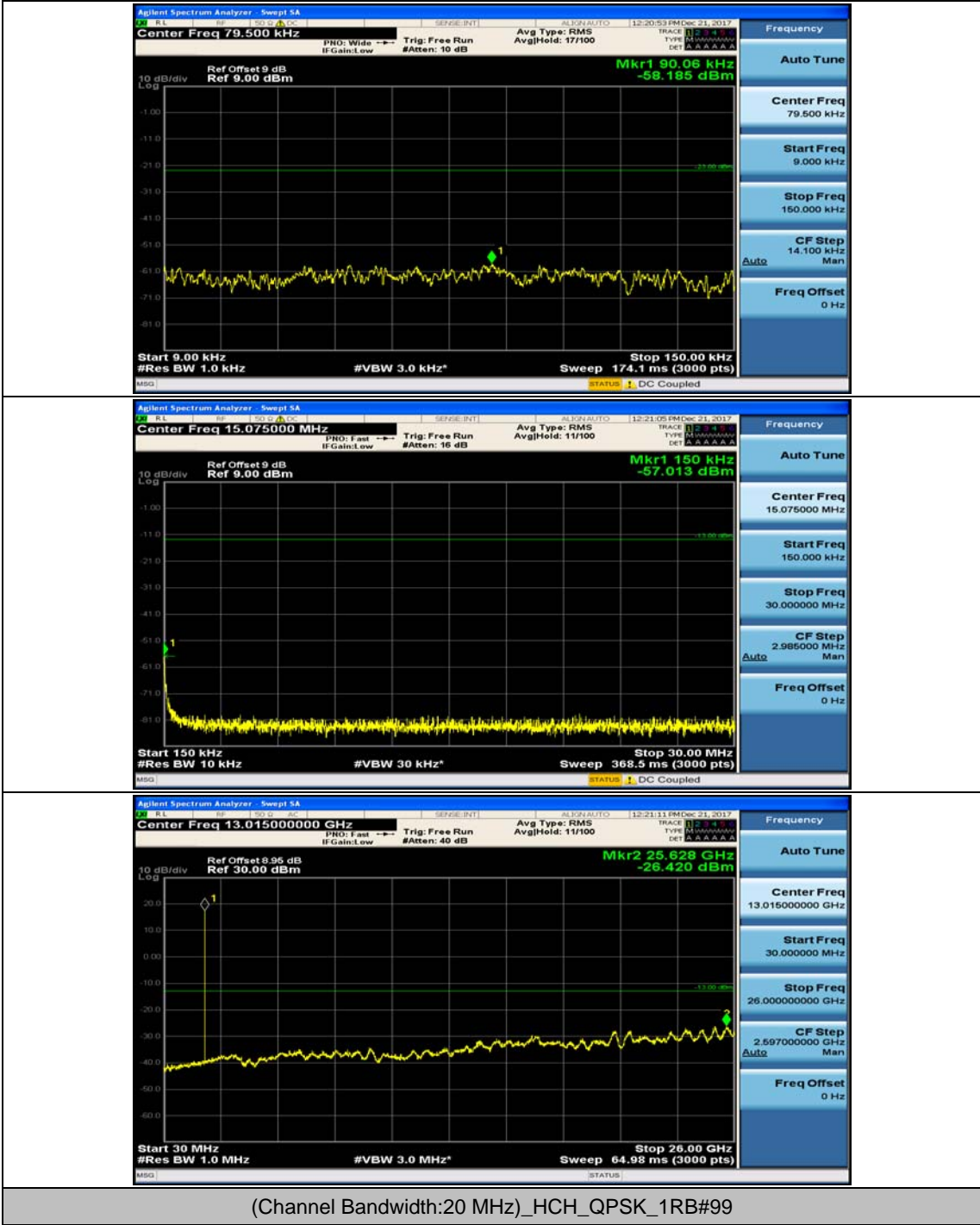


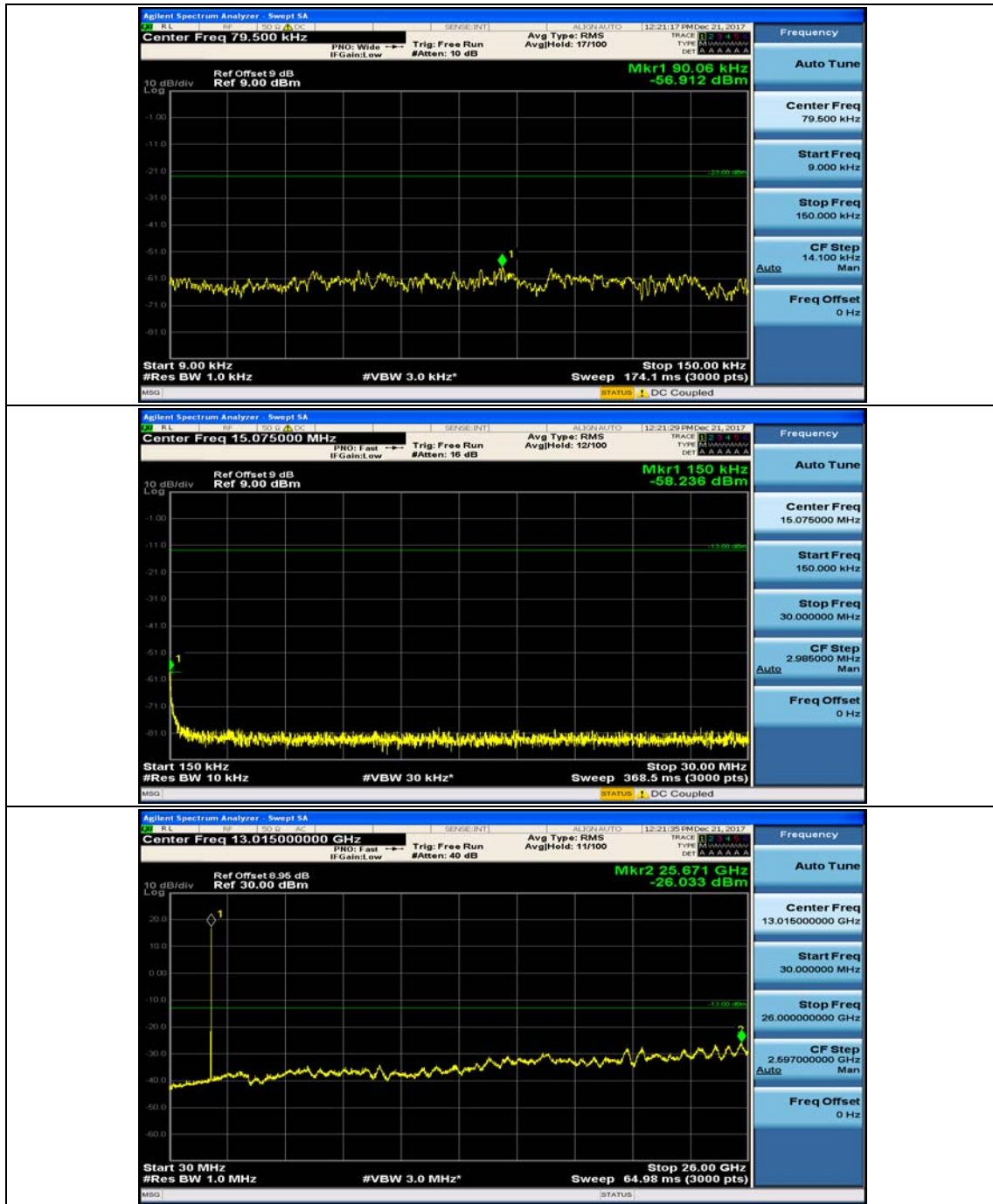


(Channel Bandwidth:20 MHz)\_HCH\_QPSK\_1RB#0

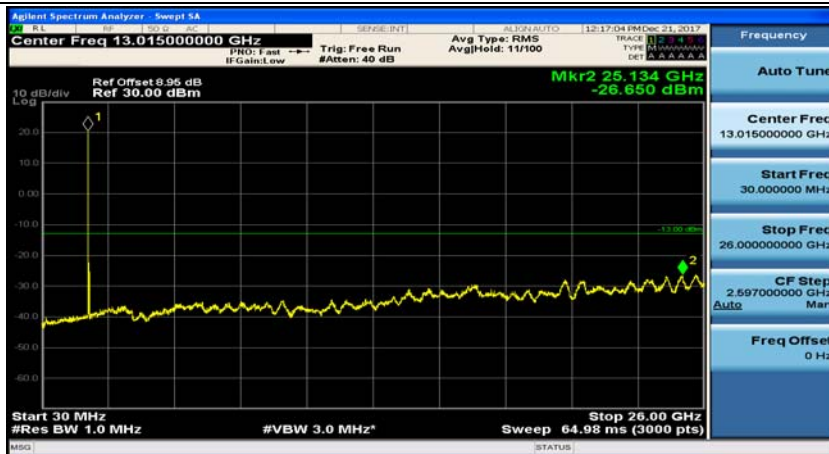
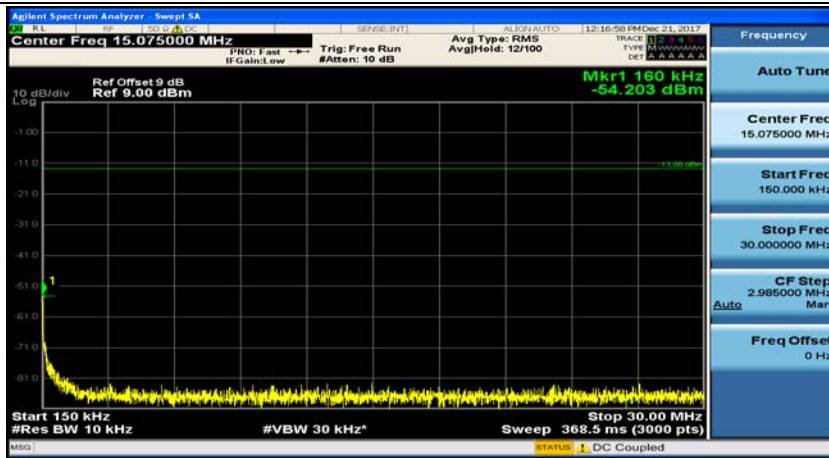
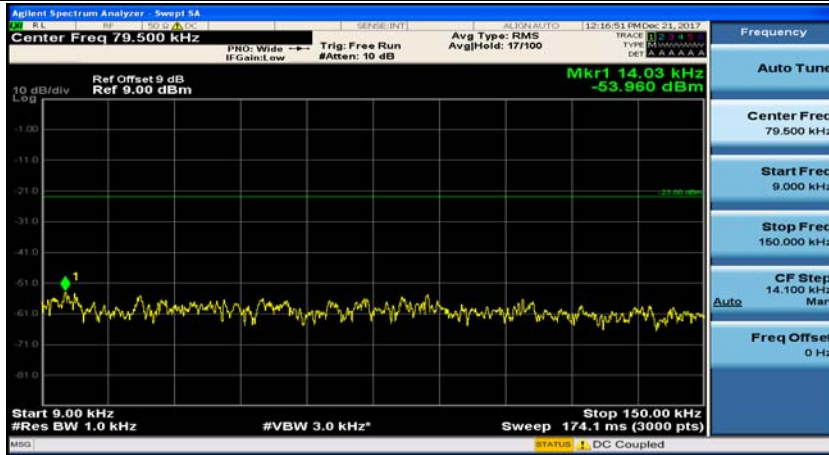


(Channel Bandwidth:20 MHz)\_HCH\_QPSK\_1RB#49

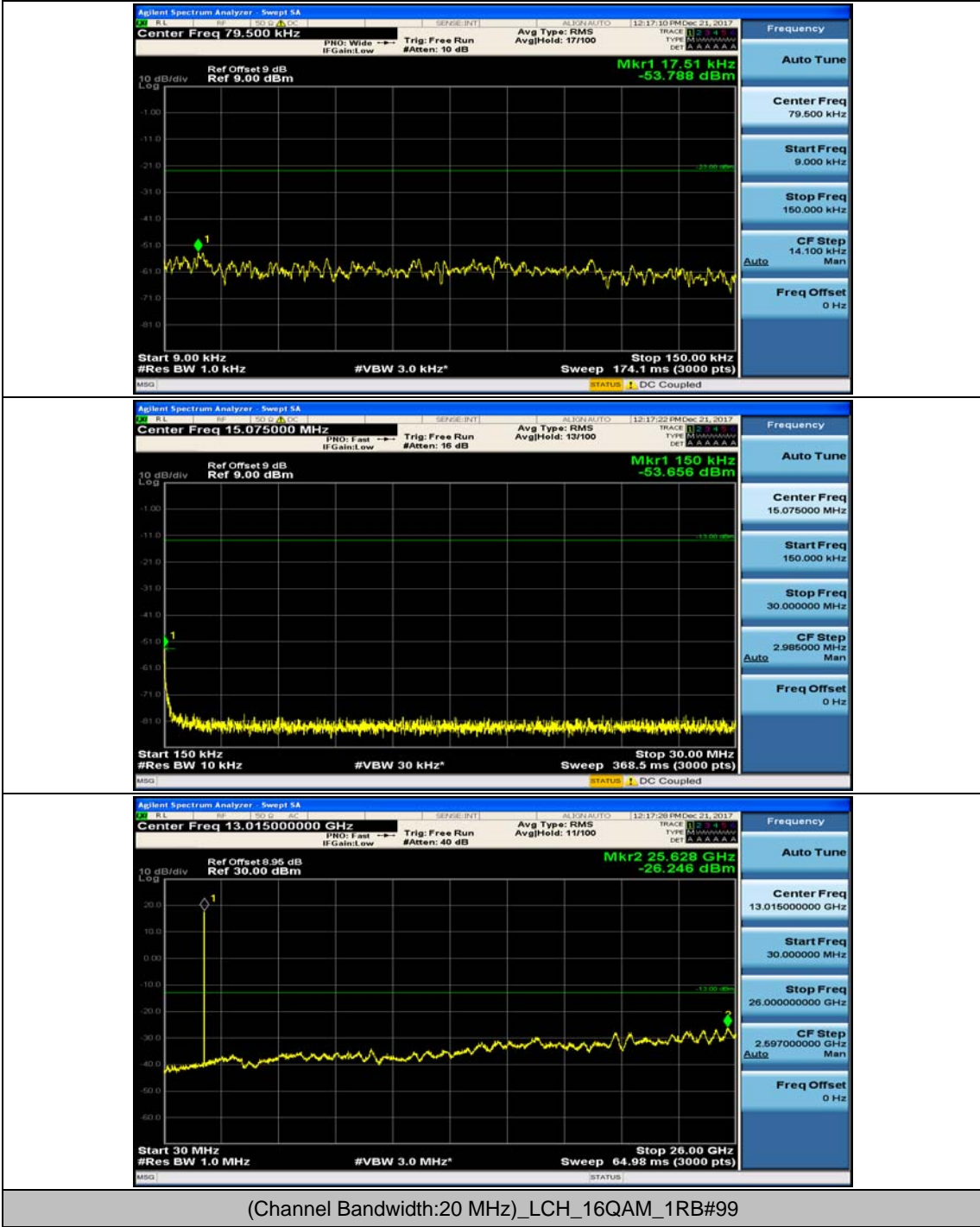


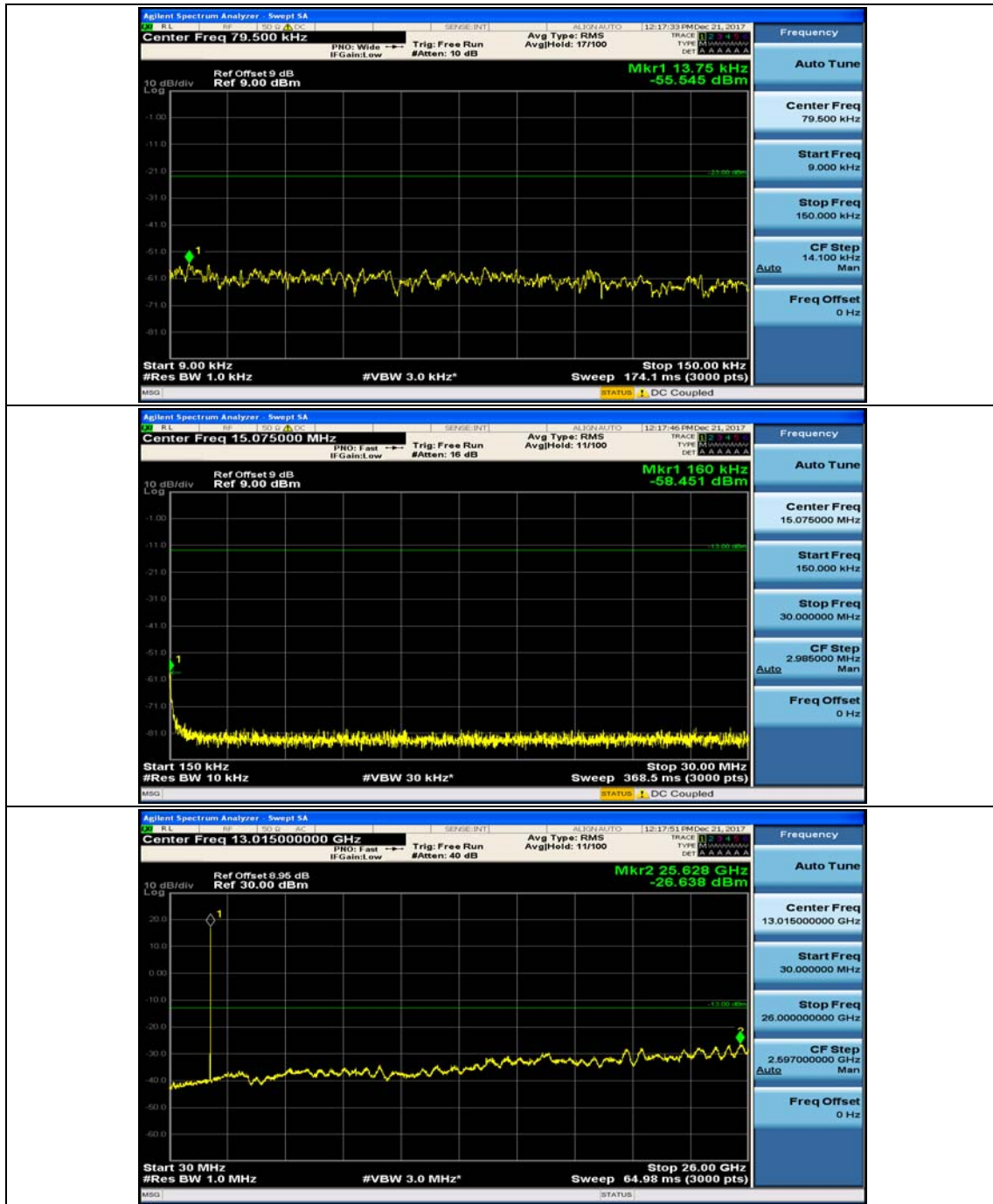


(Channel Bandwidth:20 MHz)\_LCH\_16QAM\_1RB#0

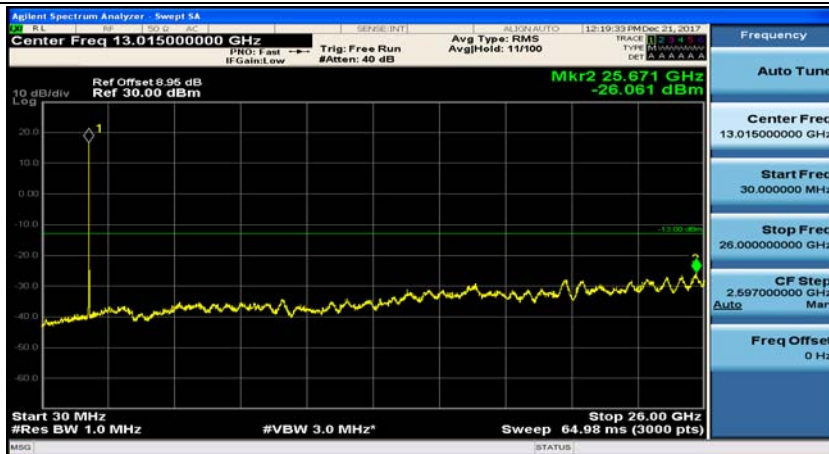
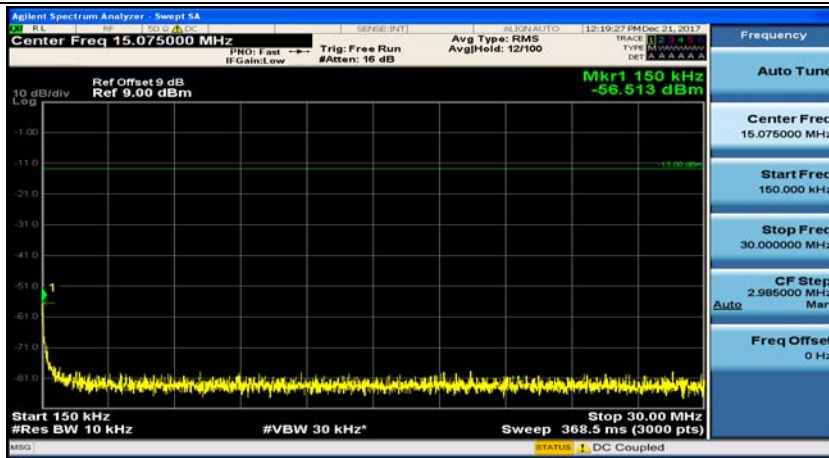
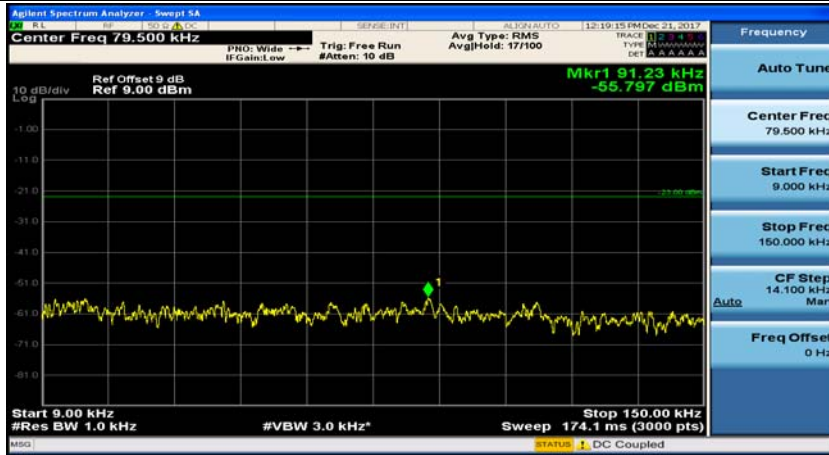


(Channel Bandwidth:20 MHz)\_LCH\_16QAM\_1RB#49

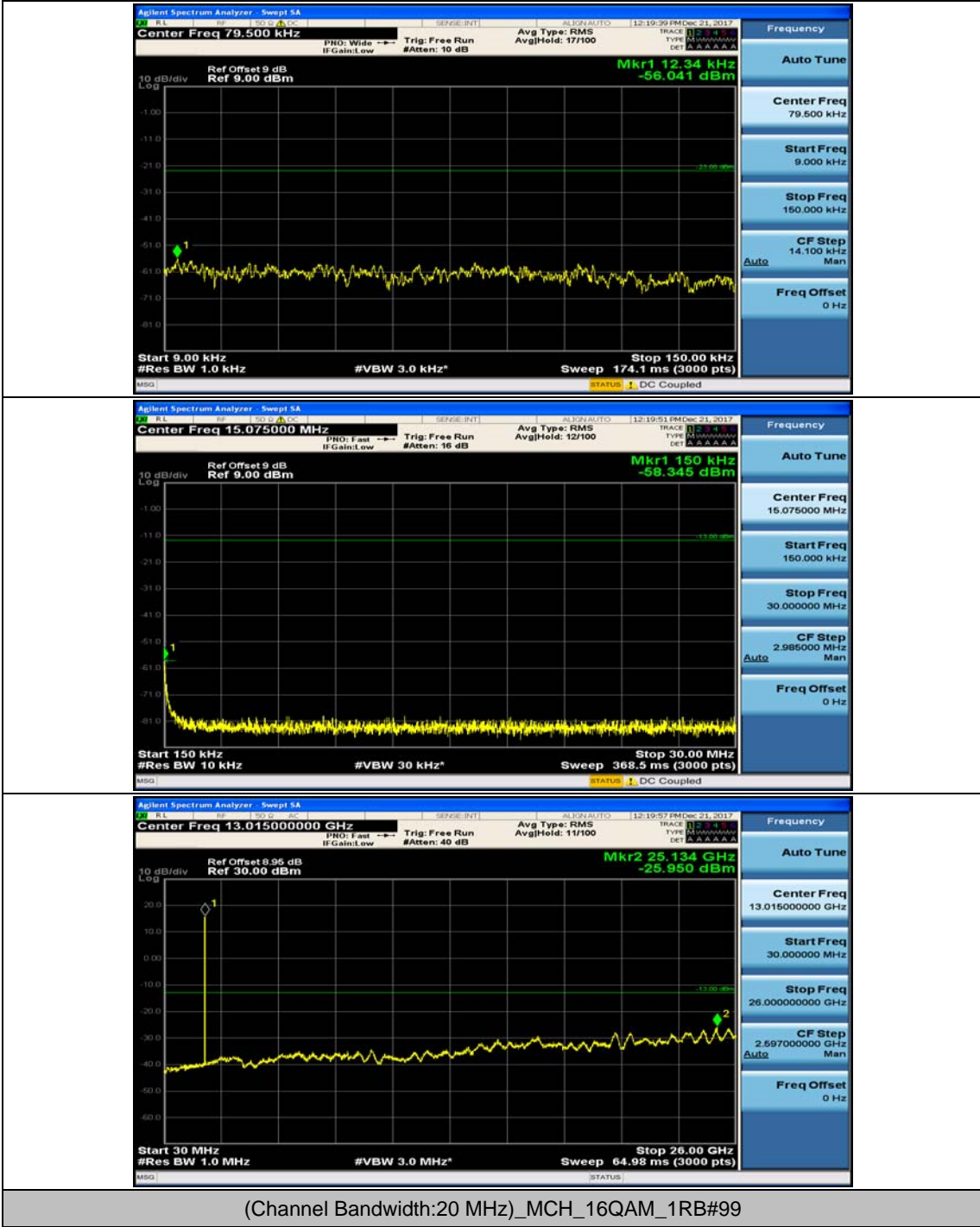




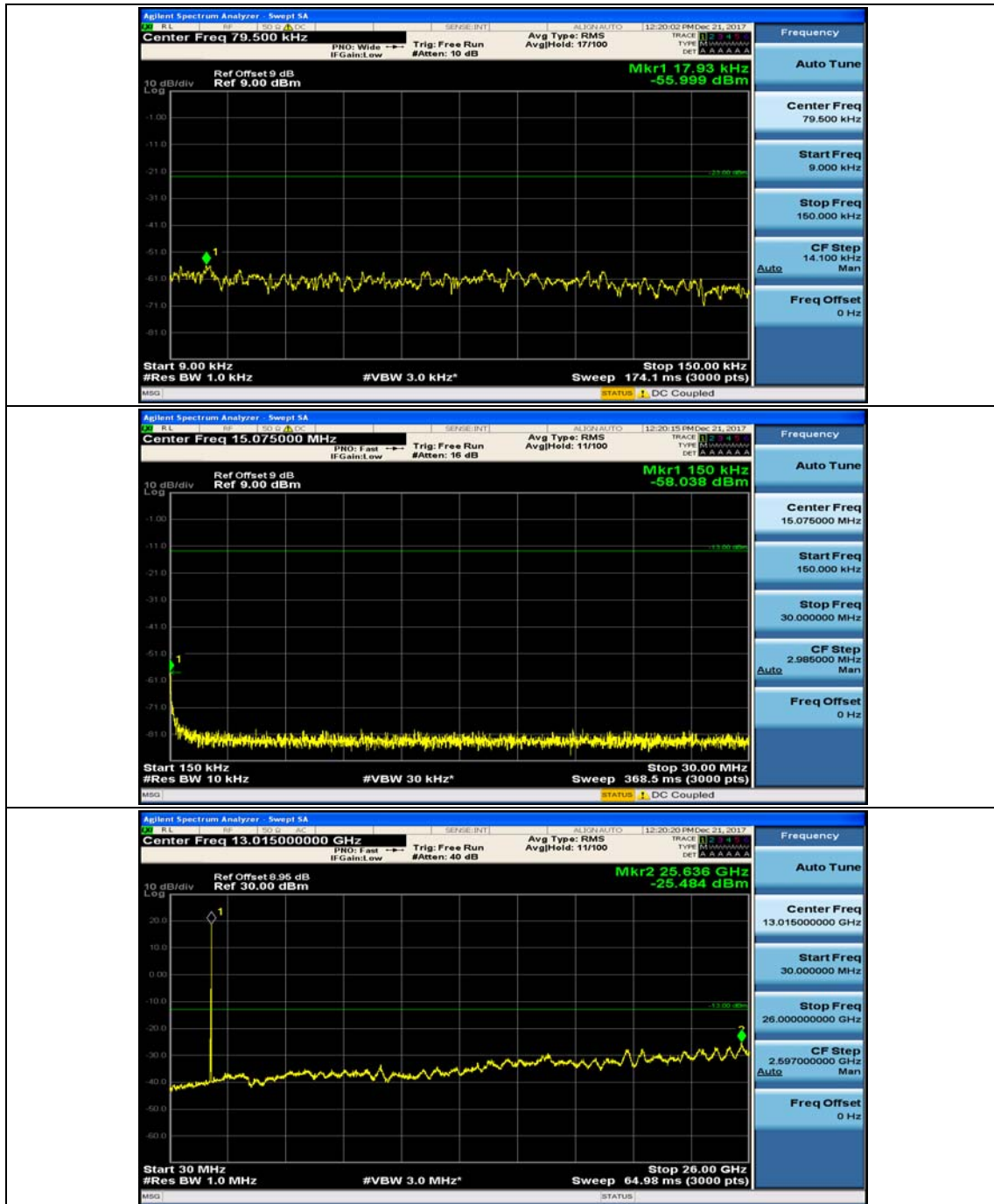
(Channel Bandwidth:20 MHz)\_MCH\_16QAM\_1RB#0



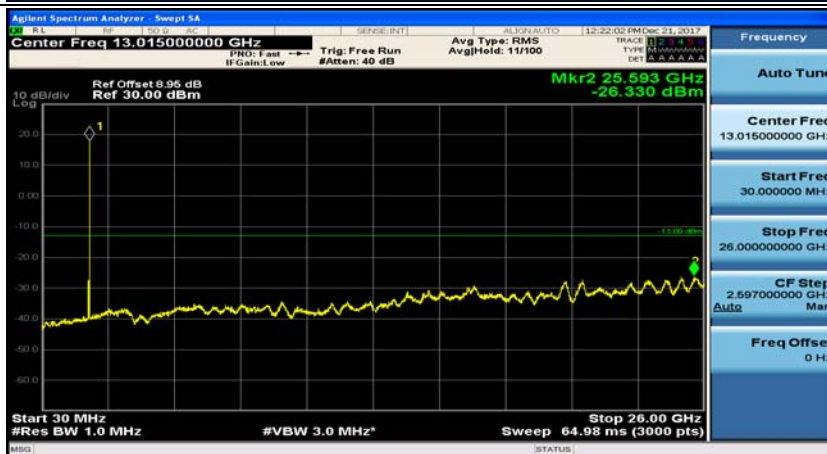
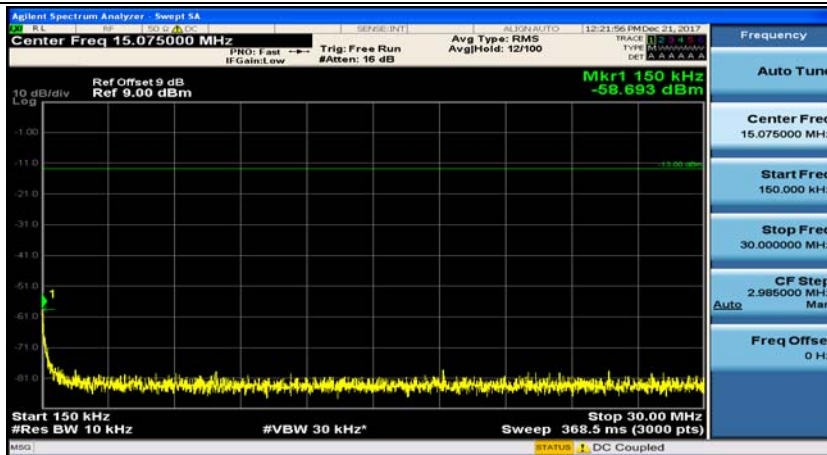
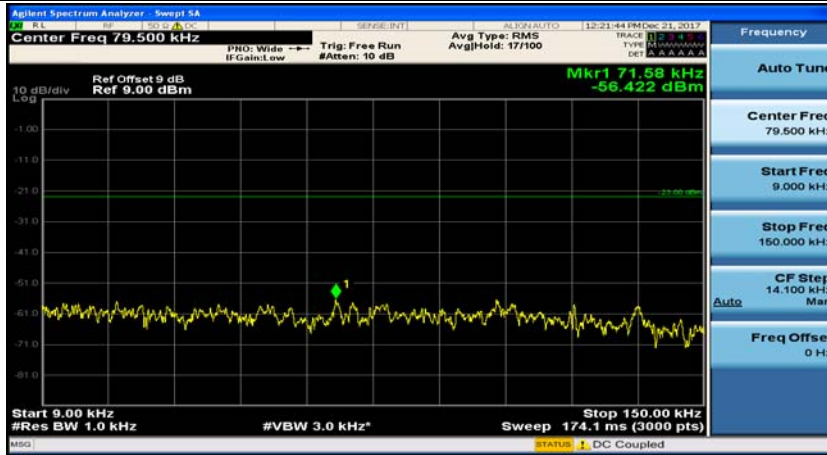
(Channel Bandwidth:20 MHz)\_MCH\_16QAM\_1RB#49



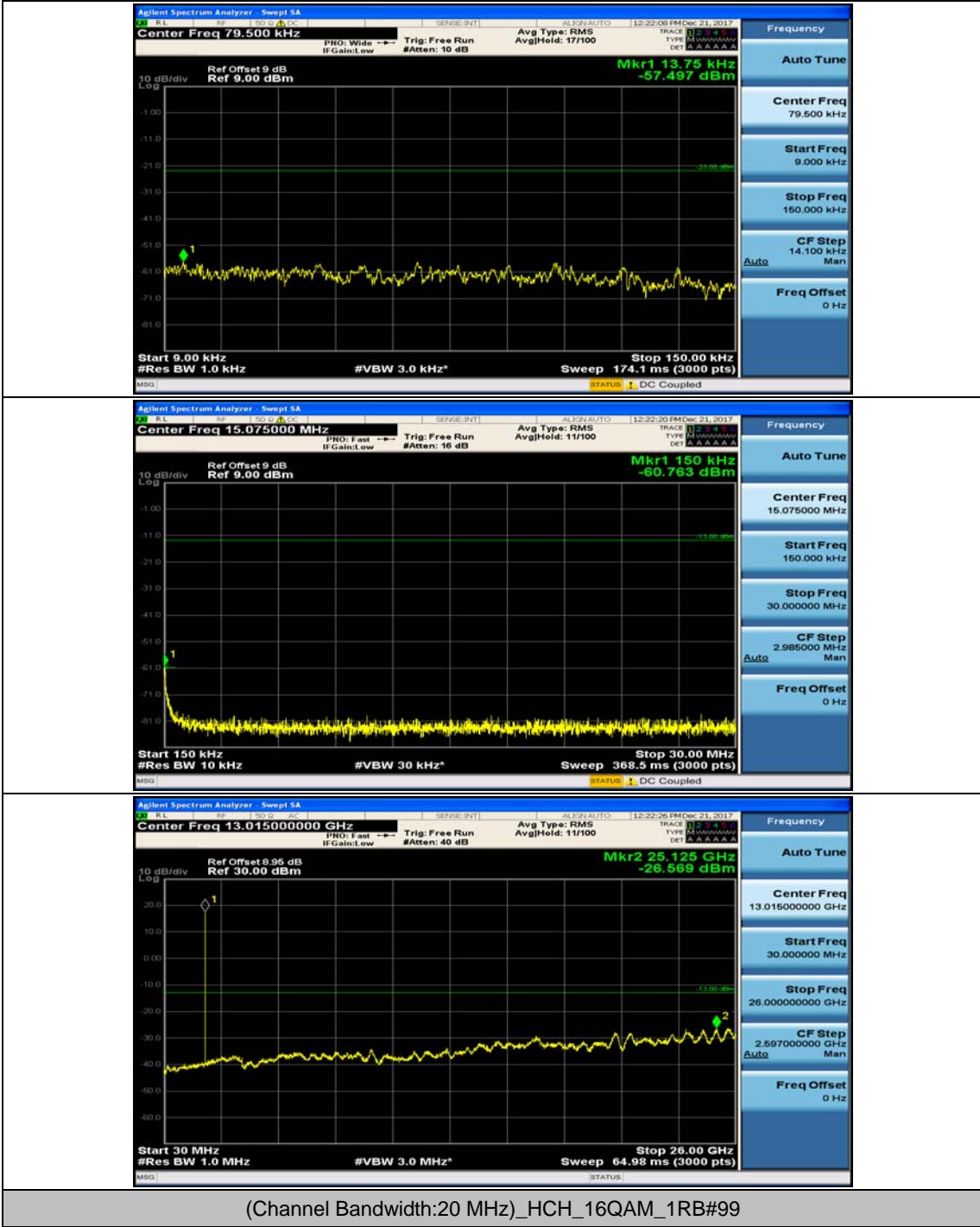


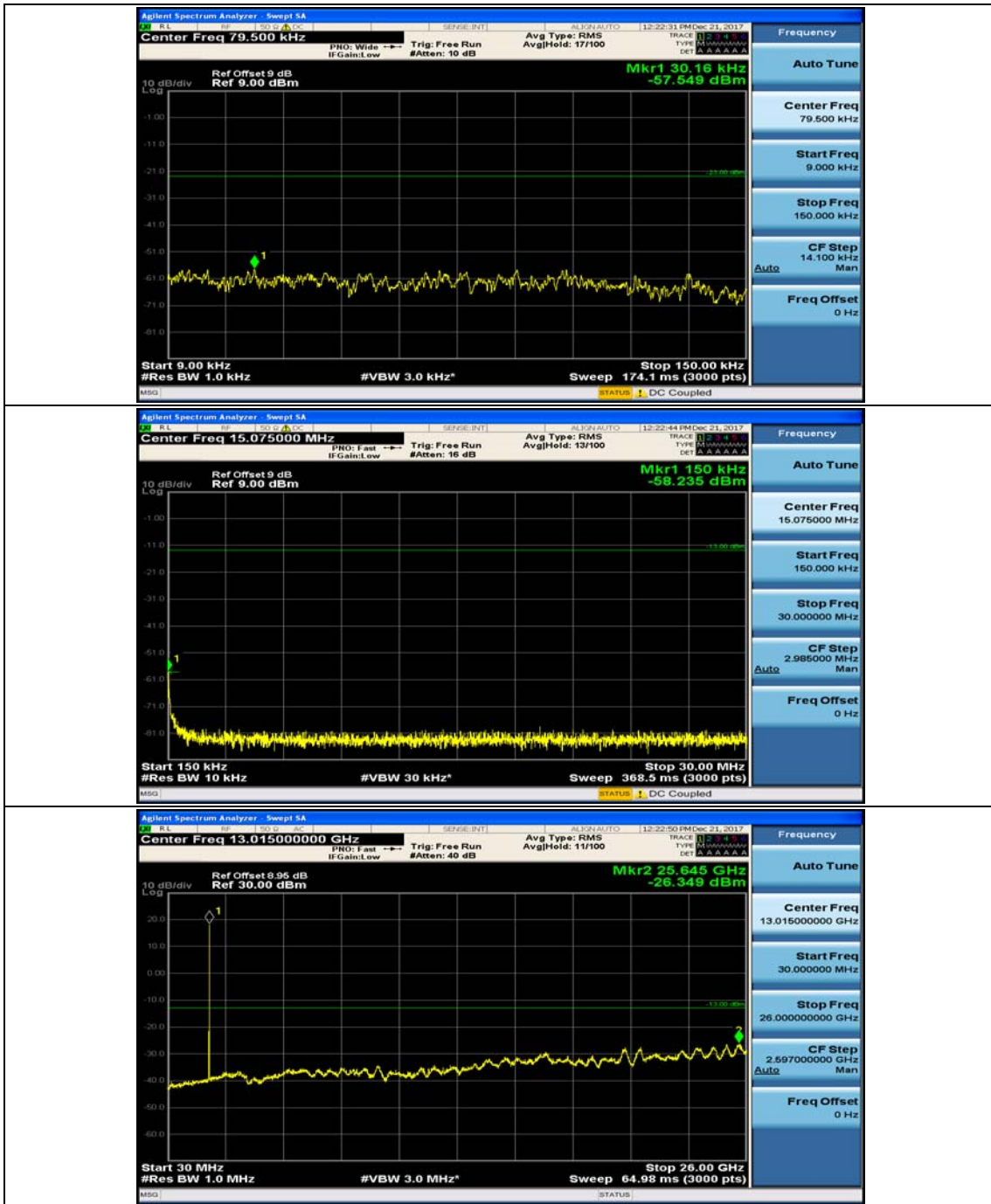


(Channel Bandwidth:20 MHz)\_HCH\_16QAM\_1RB#0



(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 ( )	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	4.97	0.002685	± 2.5	PASS
		VN	TN	0.34	0.000184	± 2.5	PASS
		VH	TN	-1.3	-0.000702	± 2.5	PASS
	MCH	VL	TN	-1.37	-0.000729	± 2.5	PASS
		VN	TN	1.36	0.000723	± 2.5	PASS
		VH	TN	-0.73	-0.000388	± 2.5	PASS
	HCH	VL	TN	1.12	0.000587	± 2.5	PASS
		VN	TN	3.6	0.001886	± 2.5	PASS
		VH	TN	0.1	0.000052	± 2.5	PASS
16QAM	LCH	VL	TN	-0.4	-0.000216	± 2.5	PASS
		VN	TN	4.2	0.002269	± 2.5	PASS
		VH	TN	1.43	0.000773	± 2.5	PASS
	MCH	VL	TN	-0.04	-0.000021	± 2.5	PASS
		VN	TN	-1.29	-0.000686	± 2.5	PASS
		VH	TN	-0.36	-0.000191	± 2.5	PASS
	HCH	VL	TN	1.83	0.000958	± 2.5	PASS
		VN	TN	3.95	0.002069	± 2.5	PASS
		VH	TN	-0.14	-0.000073	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.71	0.000384	± 2.5	PASS
		VN	-20	4.74	0.002561	± 2.5	PASS
		VN	-10	1.16	0.000627	± 2.5	PASS
		VN	0	-0.99	-0.000535	± 2.5	PASS
		VN	10	-1.12	-0.000605	± 2.5	PASS
		VN	20	2.93	0.001583	± 2.5	PASS
		VN	30	-0.49	-0.000265	± 2.5	PASS
		VN	40	3.7	0.001999	± 2.5	PASS
	MCH	VN	-30	2.28	0.001213	± 2.5	PASS
		VN	-20	-0.64	-0.000340	± 2.5	PASS

		VN	-10	4.41	0.002346	± 2.5	PASS		
		VN	0	3.37	0.001793	± 2.5	PASS		
		VN	10	4.16	0.002213	± 2.5	PASS		
		VN	20	-1.89	-0.001005	± 2.5	PASS		
		VN	30	4.78	0.002543	± 2.5	PASS		
		VN	40	-0.95	-0.000505	± 2.5	PASS		
		VN	50	1.66	0.000883	± 2.5	PASS		
	HCH	VN	-30	4.88	0.002556	± 2.5	PASS		
		VN	-20	-1.71	-0.000896	± 2.5	PASS		
		VN	-10	4.73	0.002477	± 2.5	PASS		
		VN	0	-0.62	-0.000325	± 2.5	PASS		
		VN	10	0.6	0.000314	± 2.5	PASS		
		VN	20	0.66	0.000346	± 2.5	PASS		
		VN	30	-1.68	-0.000880	± 2.5	PASS		
		VN	40	4.52	0.002367	± 2.5	PASS		
		VN	50	3.53	0.001849	± 2.5	PASS		
		16QAM	LCH	VN	-30	-1.91	-0.001032	± 2.5	PASS
				VN	-20	-1.74	-0.000940	± 2.5	PASS
VN	-10			-1.49	-0.000805	± 2.5	PASS		
VN	0			3.54	0.001913	± 2.5	PASS		
VN	10			3.77	0.002037	± 2.5	PASS		
VN	20			4.84	0.002615	± 2.5	PASS		
VN	30			0.22	0.000119	± 2.5	PASS		
VN	40			3.29	0.001778	± 2.5	PASS		
VN	50			3.09	0.001670	± 2.5	PASS		
MCH	VN		-30	-0.3	-0.000160	± 2.5	PASS		
	VN		-20	-0.01	-0.000005	± 2.5	PASS		
	VN		-10	1.39	0.000739	± 2.5	PASS		
	VN		0	2.6	0.001383	± 2.5	PASS		
	VN		10	0.28	0.000149	± 2.5	PASS		
	VN		20	-1.24	-0.000660	± 2.5	PASS		
	VN		30	2.82	0.001500	± 2.5	PASS		
	VN		40	-0.97	-0.000516	± 2.5	PASS		
	VN		50	4.76	0.002532	± 2.5	PASS		
HCH	VN	-30	4.01	0.002100	± 2.5	PASS			
	VN	-20	-1.36	-0.000712	± 2.5	PASS			
	VN	-10	1.43	0.000749	± 2.5	PASS			
	VN	0	4.54	0.002378	± 2.5	PASS			
	VN	10	-1.43	-0.000749	± 2.5	PASS			
	VN	20	-1.7	-0.000890	± 2.5	PASS			
	VN	30	3.03	0.001587	± 2.5	PASS			

		VN	40	-1.59	-0.000833	± 2.5	PASS
		VN	50	0.89	0.000466	± 2.5	PASS

### Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz+							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature ( )	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	3.42	0.001847	± 2.5	PASS
		VN	TN	4.93	0.002663	± 2.5	PASS
		VH	TN	0.47	0.000254	± 2.5	PASS
	MCH	VL	TN	3.63	0.001931	± 2.5	PASS
		VN	TN	4.95	0.002633	± 2.5	PASS
		VH	TN	-1.82	-0.000968	± 2.5	PASS
	HCH	VL	TN	0.85	0.000445	± 2.5	PASS
		VN	TN	1.54	0.000807	± 2.5	PASS
		VH	TN	-0.64	-0.000335	± 2.5	PASS
16QAM	LCH	VL	TN	1.25	0.000675	± 2.5	PASS
		VN	TN	-1.94	-0.001048	± 2.5	PASS
		VH	TN	1.58	0.000853	± 2.5	PASS
	MCH	VL	TN	4.99	0.002654	± 2.5	PASS
		VN	TN	2.37	0.001261	± 2.5	PASS
		VH	TN	-0.88	-0.000468	± 2.5	PASS
	HCH	VL	TN	0.33	0.000173	± 2.5	PASS
		VN	TN	3.43	0.001797	± 2.5	PASS
		VH	TN	1.1	0.000576	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.41	0.000762	± 2.5	PASS
		VN	-20	4.74	0.002560	± 2.5	PASS
		VN	-10	3.82	0.002063	± 2.5	PASS
		VN	0	-1.93	-0.001042	± 2.5	PASS
		VN	10	-0.76	-0.000410	± 2.5	PASS
		VN	20	1.77	0.000956	± 2.5	PASS
		VN	30	-0.25	-0.000135	± 2.5	PASS
		VN	40	-0.3	-0.000162	± 2.5	PASS
		VN	50	4.2	0.002268	± 2.5	PASS
	MCH	VN	-30	4.17	0.002218	± 2.5	PASS
		VN	-20	2.14	0.001138	± 2.5	PASS
		VN	-10	2.61	0.001388	± 2.5	PASS

		VN	0	2.7	0.001436	± 2.5	PASS		
		VN	10	0.52	0.000277	± 2.5	PASS		
		VN	20	0.72	0.000383	± 2.5	PASS		
		VN	30	-0.08	-0.000043	± 2.5	PASS		
		VN	40	3.63	0.001931	± 2.5	PASS		
		VN	50	-0.54	-0.000287	± 2.5	PASS		
	HCH	VN	-30	0.74	0.000388	± 2.5	PASS		
		VN	-20	4.56	0.002389	± 2.5	PASS		
		VN	-10	1.82	0.000954	± 2.5	PASS		
		VN	0	3.91	0.002049	± 2.5	PASS		
		VN	10	3.41	0.001787	± 2.5	PASS		
		VN	20	1.33	0.000697	± 2.5	PASS		
		VN	30	0.43	0.000225	± 2.5	PASS		
		VN	40	0.95	0.000498	± 2.5	PASS		
		VN	50	4.32	0.002264	± 2.5	PASS		
		QPSK	LCH	VN	-30	0.72	0.000389	± 2.5	PASS
				VN	-20	4.75	0.002565	± 2.5	PASS
				VN	-10	0.9	0.000486	± 2.5	PASS
VN	0			0.01	0.000005	± 2.5	PASS		
VN	10			1.21	0.000654	± 2.5	PASS		
VN	20			1.09	0.000589	± 2.5	PASS		
VN	30			-0.62	-0.000335	± 2.5	PASS		
VN	40			3.4	0.001836	± 2.5	PASS		
VN	50			-1.05	-0.000567	± 2.5	PASS		
MCH	VN		-30	0.63	0.000335	± 2.5	PASS		
	VN		-20	4.91	0.002612	± 2.5	PASS		
	VN		-10	0.6	0.000319	± 2.5	PASS		
	VN		0	1.26	0.000670	± 2.5	PASS		
	VN		10	-0.92	-0.000489	± 2.5	PASS		
	VN		20	0.45	0.000239	± 2.5	PASS		
	VN		30	2.69	0.001431	± 2.5	PASS		
	VN		40	2.87	0.001527	± 2.5	PASS		
	VN		50	0.89	0.000473	± 2.5	PASS		
HCH	VN		-30	-1.33	-0.000697	± 2.5	PASS		
	VN		-20	3.08	0.001614	± 2.5	PASS		
	VN		-10	1.07	0.000561	± 2.5	PASS		
	VN		0	-1.8	-0.000943	± 2.5	PASS		
	VN		10	-1.15	-0.000603	± 2.5	PASS		
	VN		20	3.25	0.001703	± 2.5	PASS		
	VN		30	-0.74	-0.000388	± 2.5	PASS		
	VN		40	1.72	0.000901	± 2.5	PASS		



		VN	50	1.35	0.000707	± 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	3.75	0.002024	± 2.5	PASS
		VN	TN	4.49	0.002424	± 2.5	PASS
		VH	TN	-1.9	-0.001026	± 2.5	PASS
	MCH	VL	TN	3.83	0.002037	± 2.5	PASS
		VN	TN	4.73	0.002516	± 2.5	PASS
		VH	TN	-1.9	-0.001011	± 2.5	PASS
	HCH	VL	TN	-0.02	-0.000010	± 2.5	PASS
		VN	TN	0.63	0.000330	± 2.5	PASS
		VH	TN	2.85	0.001494	± 2.5	PASS
16QAM	LCH	VL	TN	1.85	0.000999	± 2.5	PASS
		VN	TN	-1.63	-0.000880	± 2.5	PASS
		VH	TN	4.32	0.002332	± 2.5	PASS
	MCH	VL	TN	3.92	0.002085	± 2.5	PASS
		VN	TN	4.43	0.002356	± 2.5	PASS
		VH	TN	-0.93	-0.000495	± 2.5	PASS
	HCH	VL	TN	0.25	0.000131	± 2.5	PASS
		VN	TN	4.88	0.002558	± 2.5	PASS
		VH	TN	2.45	0.001284	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.64	-0.000885	± 2.5	PASS
		VN	-20	0.7	0.000378	± 2.5	PASS
		VN	-10	1.81	0.000977	± 2.5	PASS
		VN	0	2.72	0.001468	± 2.5	PASS
		VN	10	-0.65	-0.000351	± 2.5	PASS
		VN	20	2.81	0.001517	± 2.5	PASS
		VN	30	3.8	0.002051	± 2.5	PASS
		VN	40	2.13	0.001150	± 2.5	PASS
		VN	50	1.88	0.001015	± 2.5	PASS
	MCH	VN	-30	-1.41	-0.000750	± 2.5	PASS
		VN	-20	3.87	0.002059	± 2.5	PASS
		VN	-10	-0.51	-0.000271	± 2.5	PASS
		VN	0	0.78	0.000415	± 2.5	PASS

		VN	10	-0.3	-0.000160	± 2.5	PASS
		VN	20	2.36	0.001255	± 2.5	PASS
		VN	30	-1.24	-0.000660	± 2.5	PASS
		VN	40	4.64	0.002468	± 2.5	PASS
		VN	50	-0.2	-0.000106	± 2.5	PASS
	HCH	VN	-30	2.6	0.001363	± 2.5	PASS
		VN	-20	1.73	0.000907	± 2.5	PASS
		VN	-10	-1.79	-0.000938	± 2.5	PASS
		VN	0	-0.78	-0.000409	± 2.5	PASS
		VN	10	1.06	0.000556	± 2.5	PASS
		VN	20	2.43	0.001274	± 2.5	PASS
		VN	30	1.02	0.000535	± 2.5	PASS
		VN	40	-0.28	-0.000147	± 2.5	PASS
		VN	50	-1.21	-0.000634	± 2.5	PASS
		16QAM	LCH	VN	-30	1.04	0.000561
VN	-20			0.94	0.000507	± 2.5	PASS
VN	-10			-1.53	-0.000826	± 2.5	PASS
VN	0			0.88	0.000475	± 2.5	PASS
VN	10			-0.7	-0.000378	± 2.5	PASS
VN	20			-0.43	-0.000232	± 2.5	PASS
VN	30			-1.28	-0.000691	± 2.5	PASS
VN	40			-0.58	-0.000313	± 2.5	PASS
VN	50			0.93	0.000502	± 2.5	PASS
MCH	VN		-30	0.18	0.000096	± 2.5	PASS
	VN		-20	4.83	0.002569	± 2.5	PASS
	VN		-10	1.72	0.000915	± 2.5	PASS
	VN		0	2.59	0.001378	± 2.5	PASS
	VN		10	-0.89	-0.000473	± 2.5	PASS
	VN		20	0.8	0.000426	± 2.5	PASS
	VN		30	-1.69	-0.000899	± 2.5	PASS
	VN		40	-0.06	-0.000032	± 2.5	PASS
	VN		50	3.9	0.002074	± 2.5	PASS
HCH	VN		-30	3.52	0.001845	± 2.5	PASS
	VN		-20	-1.72	-0.000902	± 2.5	PASS
	VN		-10	3.15	0.001651	± 2.5	PASS
	VN		0	0.99	0.000519	± 2.5	PASS
	VN		10	3.55	0.001861	± 2.5	PASS
	VN		20	0.38	0.000199	± 2.5	PASS
	VN		30	4.52	0.002370	± 2.5	PASS
	VN		40	-1.9	-0.000996	± 2.5	PASS
	VN		50	1.17	0.000613	± 2.5	PASS

**Channel Bandwidth: 10 MHz**

Channel Bandwidth: 10 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature ( )	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	1.93	0.001040	± 2.5	PASS
		VN	TN	-0.45	-0.000243	± 2.5	PASS
		VH	TN	3.56	0.001919	± 2.5	PASS
	MCH	VL	TN	-1.46	-0.000777	± 2.5	PASS
		VN	TN	3.8	0.002021	± 2.5	PASS
		VH	TN	1.58	0.000840	± 2.5	PASS
	HCH	VL	TN	-1.04	-0.000546	± 2.5	PASS
		VN	TN	1	0.000525	± 2.5	PASS
		VH	TN	2.1	0.001102	± 2.5	PASS
16QAM	LCH	VL	TN	4.48	0.002415	± 2.5	PASS
		VN	TN	2.66	0.001434	± 2.5	PASS
		VH	TN	-1.79	-0.000965	± 2.5	PASS
	MCH	VL	TN	0.99	0.000527	± 2.5	PASS
		VN	TN	-0.38	-0.000202	± 2.5	PASS
		VH	TN	2.48	0.001319	± 2.5	PASS
	HCH	VL	TN	4.1	0.002152	± 2.5	PASS
		VN	TN	-0.6	-0.000315	± 2.5	PASS
		VH	TN	0.23	0.000121	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	-0.81	-0.000437	± 2.5	PASS
		VN	-20	4.09	0.002205	± 2.5	PASS
		VN	-10	-0.24	-0.000129	± 2.5	PASS
		VN	0	4.97	0.002679	± 2.5	PASS
		VN	10	3.98	0.002146	± 2.5	PASS
		VN	20	1.8	0.000970	± 2.5	PASS
		VN	30	2	0.001078	± 2.5	PASS
		VN	40	-1.92	-0.001035	± 2.5	PASS
	MCH	VN	50	0.97	0.000523	± 2.5	PASS
		VN	-30	4.33	0.002303	± 2.5	PASS
		VN	-20	3.1	0.001649	± 2.5	PASS
		VN	-10	2	0.001064	± 2.5	PASS
		VN	0	-0.38	-0.000202	± 2.5	PASS
		VN	10	4.98	0.002649	± 2.5	PASS
VN	20	4.79	0.002548	± 2.5	PASS		

		VN	30	-0.28	-0.000149	± 2.5	PASS
		VN	40	2.47	0.001314	± 2.5	PASS
		VN	50	0.38	0.000202	± 2.5	PASS
	HCH	VN	-30	1.23	0.000646	± 2.5	PASS
		VN	-20	1.93	0.001013	± 2.5	PASS
		VN	-10	-1.13	-0.000593	± 2.5	PASS
		VN	0	-1.13	-0.000593	± 2.5	PASS
		VN	10	4.51	0.002367	± 2.5	PASS
		VN	20	-0.69	-0.000362	± 2.5	PASS
		VN	30	4.34	0.002278	± 2.5	PASS
		VN	40	3.75	0.001969	± 2.5	PASS
		VN	50	-1.65	-0.000866	± 2.5	PASS
QPSK	LCH	VN	-30	4.51	0.002431	± 2.5	PASS
		VN	-20	3.29	0.001774	± 2.5	PASS
		VN	-10	3.99	0.002151	± 2.5	PASS
		VN	0	0.04	0.000022	± 2.5	PASS
		VN	10	0.67	0.000361	± 2.5	PASS
		VN	20	1.69	0.000911	± 2.5	PASS
		VN	30	2.31	0.001245	± 2.5	PASS
		VN	40	0.15	0.000081	± 2.5	PASS
		VN	50	0.25	0.000135	± 2.5	PASS
	MCH	VN	-30	0.98	0.000521	± 2.5	PASS
		VN	-20	-0.74	-0.000394	± 2.5	PASS
		VN	-10	2.39	0.001271	± 2.5	PASS
		VN	0	1.43	0.000761	± 2.5	PASS
		VN	10	-1.08	-0.000574	± 2.5	PASS
		VN	20	1.6	0.000851	± 2.5	PASS
		VN	30	2.3	0.001223	± 2.5	PASS
		VN	40	4.56	0.002426	± 2.5	PASS
		VN	50	-1.55	-0.000824	± 2.5	PASS
	HCH	VN	-30	1.32	0.000693	± 2.5	PASS
		VN	-20	0.84	0.000441	± 2.5	PASS
		VN	-10	1.38	0.000724	± 2.5	PASS
		VN	0	-0.88	-0.000462	± 2.5	PASS
		VN	10	0.79	0.000415	± 2.5	PASS
		VN	20	4.46	0.002341	± 2.5	PASS
		VN	30	4.78	0.002509	± 2.5	PASS
		VN	40	0.69	0.000362	± 2.5	PASS
		VN	50	3.21	0.001685	± 2.5	PASS

**Channel Bandwidth: 15 MHz**

Channel Bandwidth: 15 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature ( )	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	4.84	0.002606	± 2.5	PASS
		VN	TN	1.29	0.000694	± 2.5	PASS
		VH	TN	2.26	0.001217	± 2.5	PASS
	MCH	VL	TN	0.18	0.000096	± 2.5	PASS
		VN	TN	3.57	0.001899	± 2.5	PASS
		VH	TN	3.88	0.002064	± 2.5	PASS
	HCH	VL	TN	2.56	0.001346	± 2.5	PASS
		VN	TN	2.95	0.001551	± 2.5	PASS
		VH	TN	4.85	0.002549	± 2.5	PASS
16QAM	LCH	VL	TN	1.22	0.000657	± 2.5	PASS
		VN	TN	4.24	0.002283	± 2.5	PASS
		VH	TN	-0.18	-0.000097	± 2.5	PASS
	MCH	VL	TN	4.21	0.002239	± 2.5	PASS
		VN	TN	-0.98	-0.000521	± 2.5	PASS
		VH	TN	4.86	0.002585	± 2.5	PASS
	HCH	VL	TN	1.46	0.000767	± 2.5	PASS
		VN	TN	0.68	0.000357	± 2.5	PASS
		VH	TN	4.87	0.002560	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.21	0.001728	± 2.5	PASS
		VN	-20	-0.17	-0.000092	± 2.5	PASS
		VN	-10	2.15	0.001157	± 2.5	PASS
		VN	0	4.36	0.002347	± 2.5	PASS
		VN	10	4.57	0.002460	± 2.5	PASS
		VN	20	3.71	0.001997	± 2.5	PASS
		VN	30	3.02	0.001626	± 2.5	PASS
		VN	40	4.85	0.002611	± 2.5	PASS
		VN	50	0.8	0.000431	± 2.5	PASS
	MCH	VN	-30	-1.95	-0.001037	± 2.5	PASS
		VN	-20	2.71	0.001441	± 2.5	PASS
		VN	-10	2.19	0.001165	± 2.5	PASS
		VN	0	5	0.002660	± 2.5	PASS
		VN	10	0.75	0.000399	± 2.5	PASS
		VN	20	0.16	0.000085	± 2.5	PASS

	VN	30	-0.55	-0.000293	± 2.5	PASS	
		40	0.84	0.000447	± 2.5	PASS	
		50	-0.68	-0.000362	± 2.5	PASS	
	HCH	VN	-30	4.18	0.002197	± 2.5	PASS
		VN	-20	1.2	0.000631	± 2.5	PASS
		VN	-10	-1.03	-0.000541	± 2.5	PASS
		VN	0	4.54	0.002386	± 2.5	PASS
		VN	10	-0.65	-0.000342	± 2.5	PASS
		VN	20	2.2	0.001156	± 2.5	PASS
		VN	30	1.98	0.001041	± 2.5	PASS
		VN	40	0.33	0.000173	± 2.5	PASS
		VN	50	4.51	0.002371	± 2.5	PASS
QPSK	LCH	VN	-30	-1.71	-0.000921	± 2.5	PASS
		VN	-20	-0.98	-0.000528	± 2.5	PASS
		VN	-10	0.27	0.000145	± 2.5	PASS
		VN	0	4.01	0.002159	± 2.5	PASS
		VN	10	-1.45	-0.000781	± 2.5	PASS
		VN	20	1.38	0.000743	± 2.5	PASS
		VN	30	-0.85	-0.000458	± 2.5	PASS
		VN	40	2.61	0.001405	± 2.5	PASS
		VN	50	0.54	0.000291	± 2.5	PASS
	MCH	VN	-30	3.65	0.001941	± 2.5	PASS
		VN	-20	0.31	0.000165	± 2.5	PASS
		VN	-10	2.98	0.001585	± 2.5	PASS
		VN	0	-1.77	-0.000941	± 2.5	PASS
		VN	10	1.06	0.000564	± 2.5	PASS
		VN	20	1.2	0.000638	± 2.5	PASS
		VN	30	-1.86	-0.000989	± 2.5	PASS
		VN	40	4.95	0.002633	± 2.5	PASS
		VN	50	3.3	0.001755	± 2.5	PASS
	HCH	VN	-30	0.35	0.000184	± 2.5	PASS
		VN	-20	3.14	0.001650	± 2.5	PASS
		VN	-10	-0.12	-0.000063	± 2.5	PASS
		VN	0	3.55	0.001866	± 2.5	PASS
		VN	10	-0.73	-0.000384	± 2.5	PASS
		VN	20	3.25	0.001708	± 2.5	PASS
		VN	30	4.05	0.002129	± 2.5	PASS
		VN	40	3.31	0.001740	± 2.5	PASS
		VN	50	-0.14	-0.000074	± 2.5	PASS

**Channel Bandwidth: 20 MHz**

Channel Bandwidth: 20 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature ( )	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-0.62	-0.000333	± 2.5	PASS
		VN	TN	-1.1	-0.000591	± 2.5	PASS
		VH	TN	-0.53	-0.000285	± 2.5	PASS
	MCH	VL	TN	-0.77	-0.000410	± 2.5	PASS
		VN	TN	3.79	0.002016	± 2.5	PASS
		VH	TN	3.22	0.001713	± 2.5	PASS
	HCH	VL	TN	1.55	0.000816	± 2.5	PASS
		VN	TN	4.35	0.002289	± 2.5	PASS
		VH	TN	-1.77	-0.000932	± 2.5	PASS
16QAM	LCH	VL	TN	-0.41	-0.000220	± 2.5	PASS
		VN	TN	0.96	0.000516	± 2.5	PASS
		VH	TN	4.61	0.002478	± 2.5	PASS
	MCH	VL	TN	4.05	0.002154	± 2.5	PASS
		VN	TN	3.9	0.002074	± 2.5	PASS
		VH	TN	3.85	0.002048	± 2.5	PASS
	HCH	VL	TN	0.13	0.000068	± 2.5	PASS
		VN	TN	4.73	0.002489	± 2.5	PASS
		VH	TN	1.46	0.000768	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.38	-0.000204	± 2.5	PASS
		VN	-20	-0.63	-0.000339	± 2.5	PASS
		VN	-10	-0.07	-0.000038	± 2.5	PASS
		VN	0	3.14	0.001688	± 2.5	PASS
		VN	10	3.67	0.001973	± 2.5	PASS
		VN	20	-1.29	-0.000694	± 2.5	PASS
		VN	30	-0.72	-0.000387	± 2.5	PASS
		VN	40	4.59	0.002468	± 2.5	PASS
		VN	50	4.73	0.002543	± 2.5	PASS
	MCH	VN	-30	2.65	0.001410	± 2.5	PASS
		VN	-20	-0.83	-0.000441	± 2.5	PASS
		VN	-10	1.33	0.000707	± 2.5	PASS
		VN	0	1.26	0.000670	± 2.5	PASS
		VN	10	2.86	0.001521	± 2.5	PASS
		VN	20	1.5	0.000798	± 2.5	PASS

		VN	30	0.15	0.000080	± 2.5	PASS
		VN	40	1.4	0.000745	± 2.5	PASS
		VN	50	0.6	0.000319	± 2.5	PASS
	HCH	VN	-30	-1.95	-0.001026	± 2.5	PASS
		VN	-20	-1.83	-0.000963	± 2.5	PASS
		VN	-10	3.68	0.001937	± 2.5	PASS
		VN	0	1.19	0.000626	± 2.5	PASS
		VN	10	0.28	0.000147	± 2.5	PASS
		VN	20	3.68	0.001937	± 2.5	PASS
		VN	30	4.86	0.002558	± 2.5	PASS
		VN	40	0.68	0.000358	± 2.5	PASS
		VN	50	2.04	0.001074	± 2.5	PASS
QPSK	LCH	VN	-30	-0.58	-0.000312	± 2.5	PASS
		VN	-20	-0.24	-0.000129	± 2.5	PASS
		VN	-10	3.96	0.002129	± 2.5	PASS
		VN	0	-0.49	-0.000263	± 2.5	PASS
		VN	10	4.66	0.002505	± 2.5	PASS
		VN	20	-0.8	-0.000430	± 2.5	PASS
		VN	30	2.59	0.001392	± 2.5	PASS
		VN	40	1.22	0.000656	± 2.5	PASS
		VN	50	1.35	0.000726	± 2.5	PASS
	MCH	VN	-30	1.34	0.000713	± 2.5	PASS
		VN	-20	3.62	0.001926	± 2.5	PASS
		VN	-10	2.86	0.001521	± 2.5	PASS
		VN	0	0.22	0.000117	± 2.5	PASS
		VN	10	1.64	0.000872	± 2.5	PASS
		VN	20	3.39	0.001803	± 2.5	PASS
		VN	30	0.77	0.000410	± 2.5	PASS
		VN	40	-1.06	-0.000564	± 2.5	PASS
		VN	50	-1.75	-0.000931	± 2.5	PASS
	HCH	VN	-30	1.03	0.000542	± 2.5	PASS
		VN	-20	-0.15	-0.000079	± 2.5	PASS
		VN	-10	4.21	0.002216	± 2.5	PASS
		VN	0	0.74	0.000389	± 2.5	PASS
		VN	10	3.97	0.002089	± 2.5	PASS
		VN	20	2.1	0.001105	± 2.5	PASS
		VN	30	0.02	0.000011	± 2.5	PASS
		VN	40	1.89	0.000995	± 2.5	PASS
		VN	50	1.91	0.001005	± 2.5	PASS