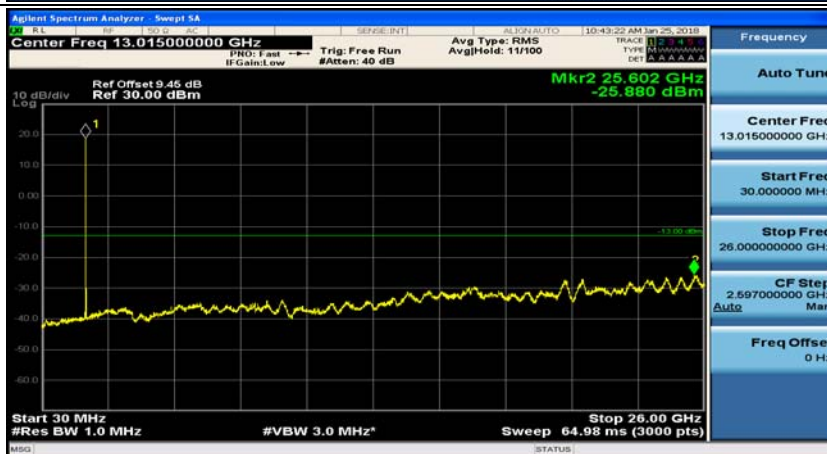
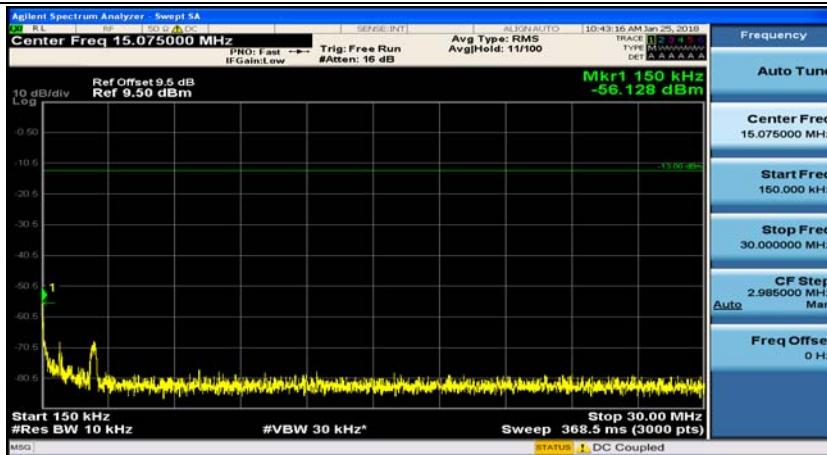
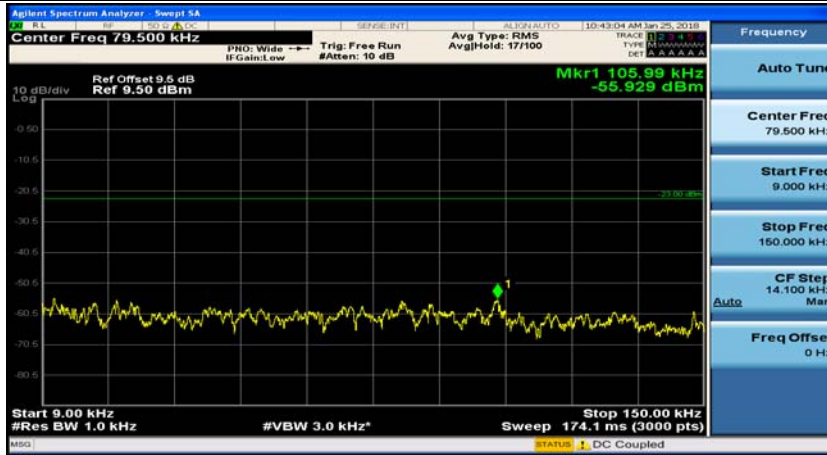
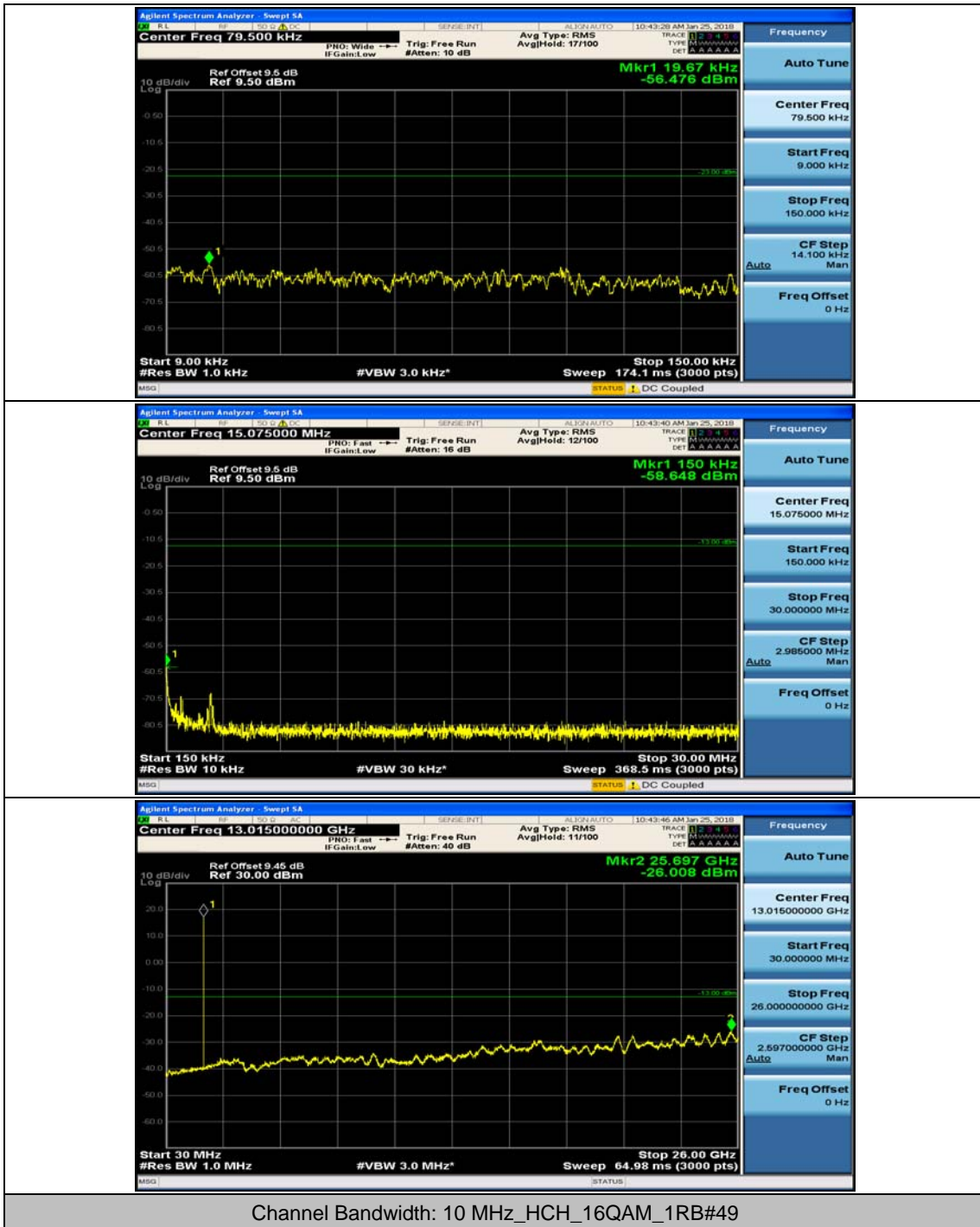
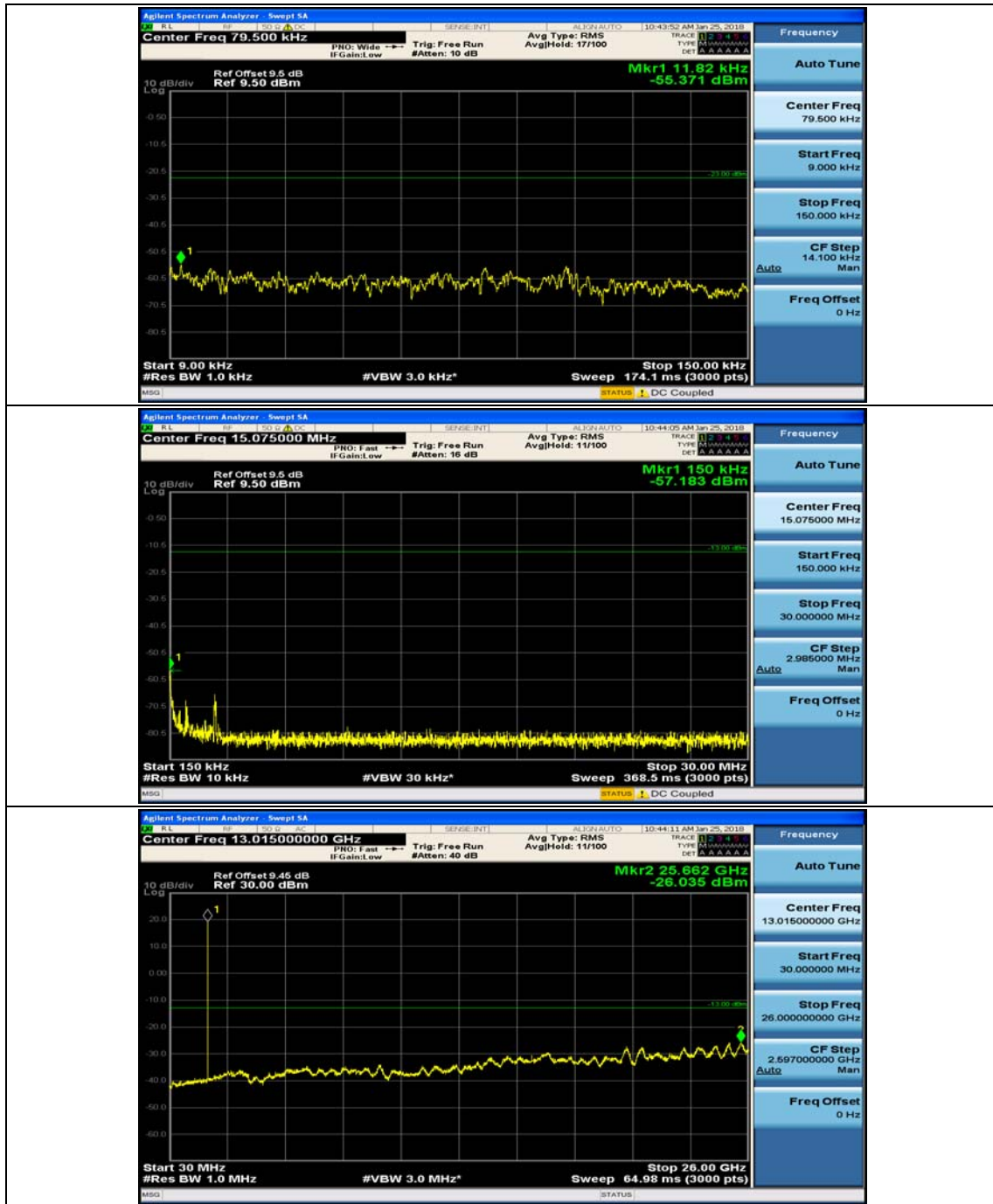


Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0

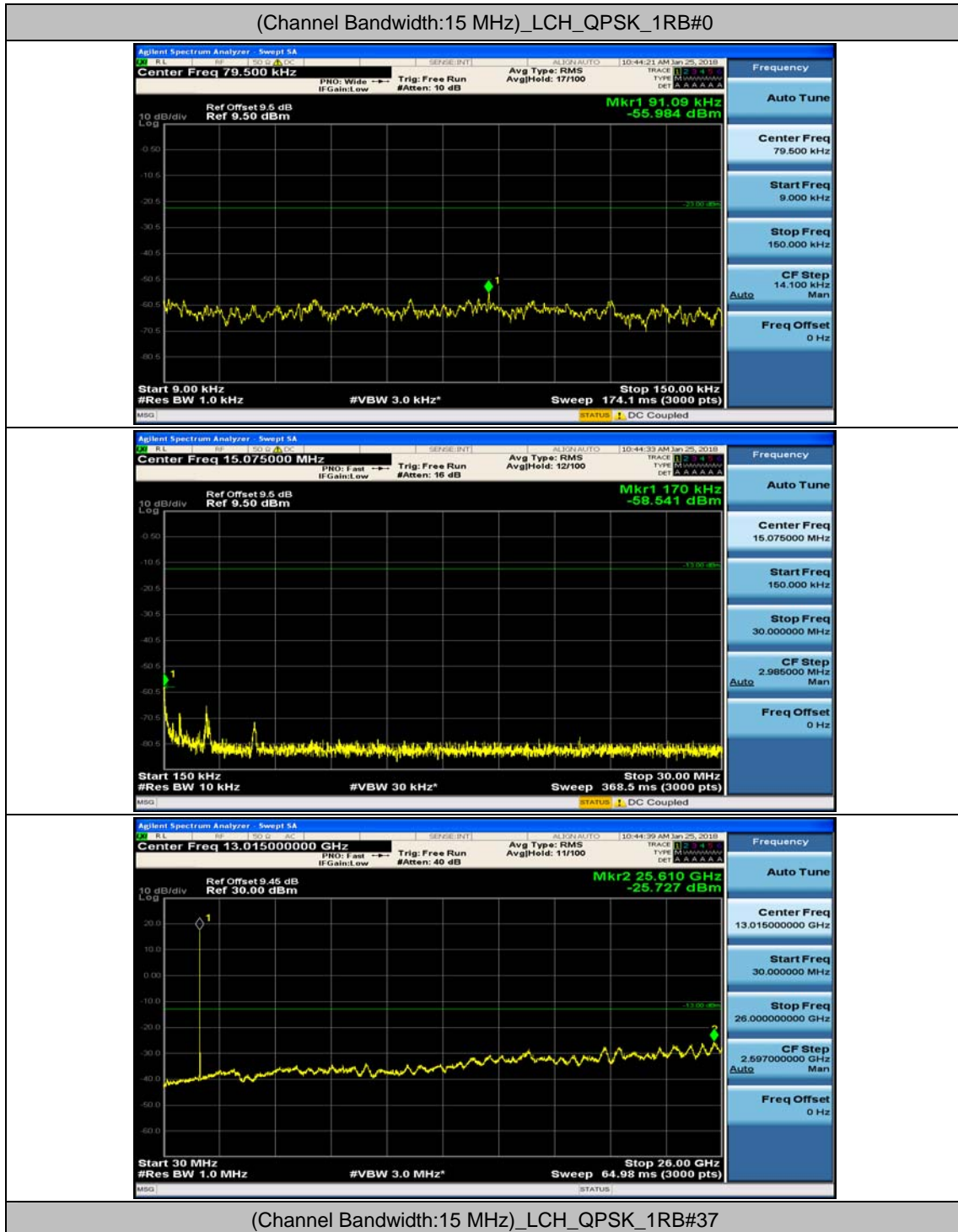


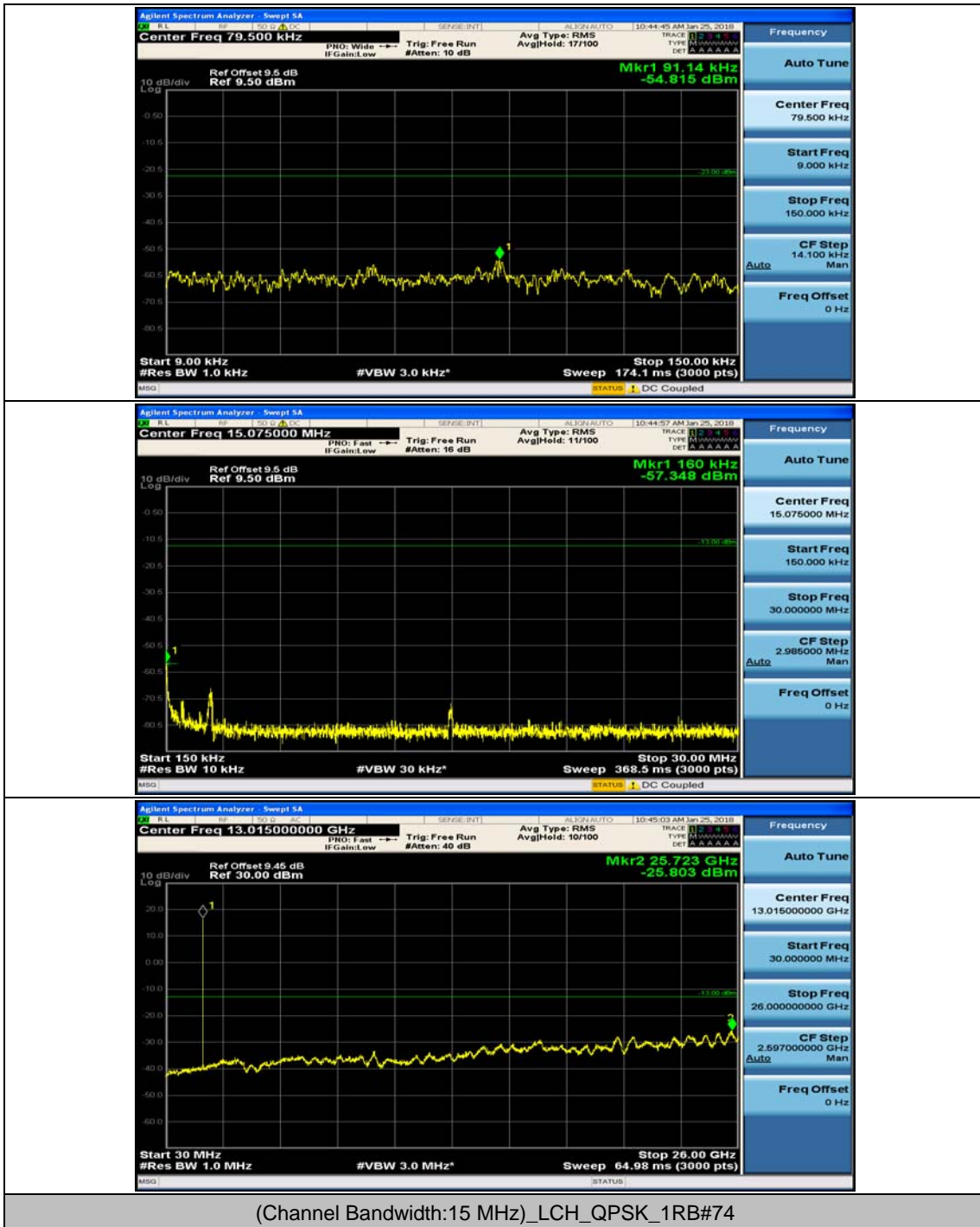
Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#24

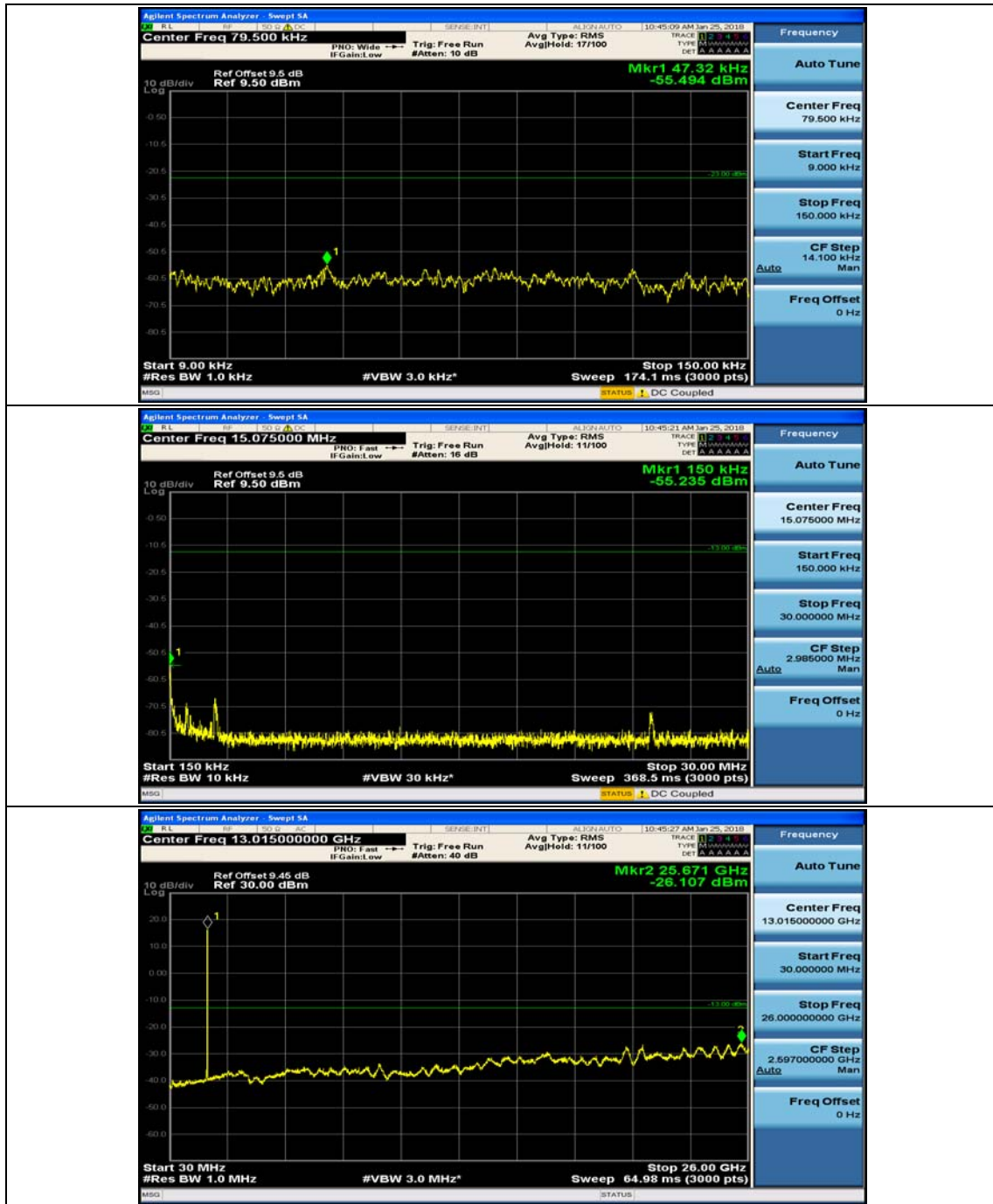




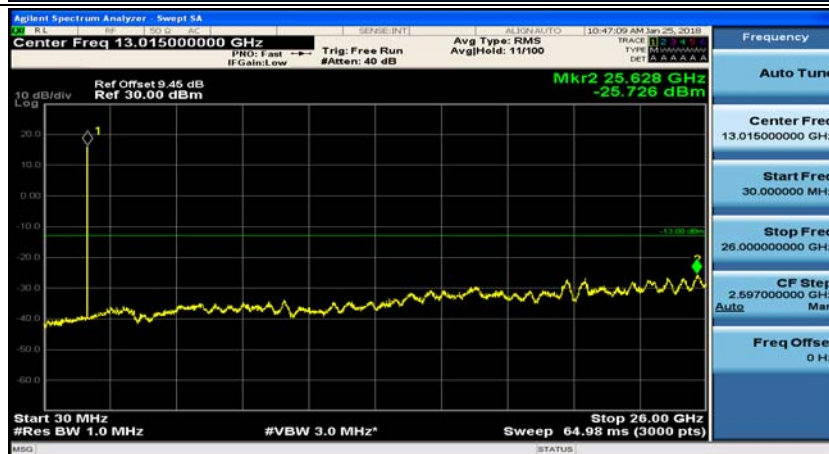
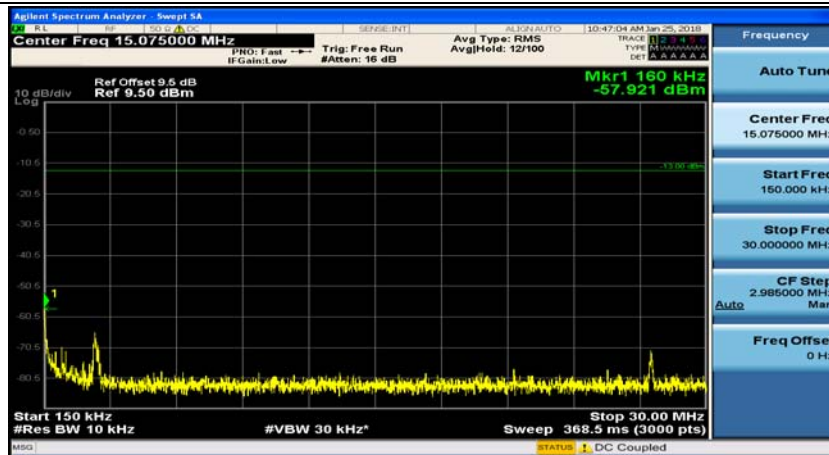
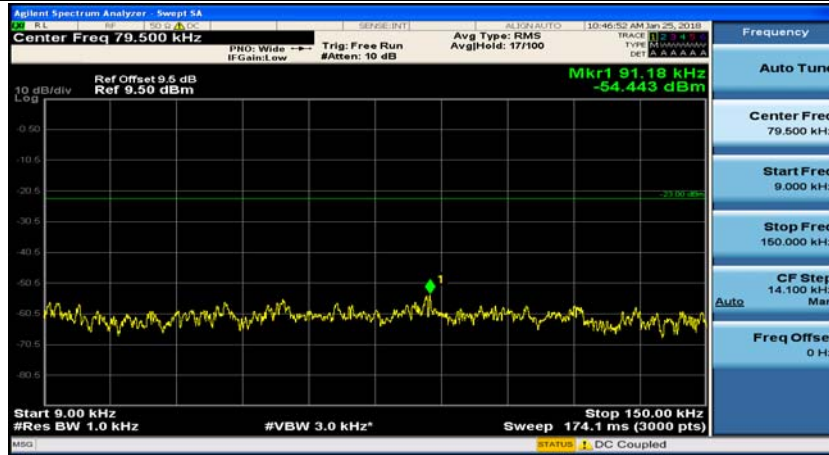
Channel Bandwidth: 15 MHz



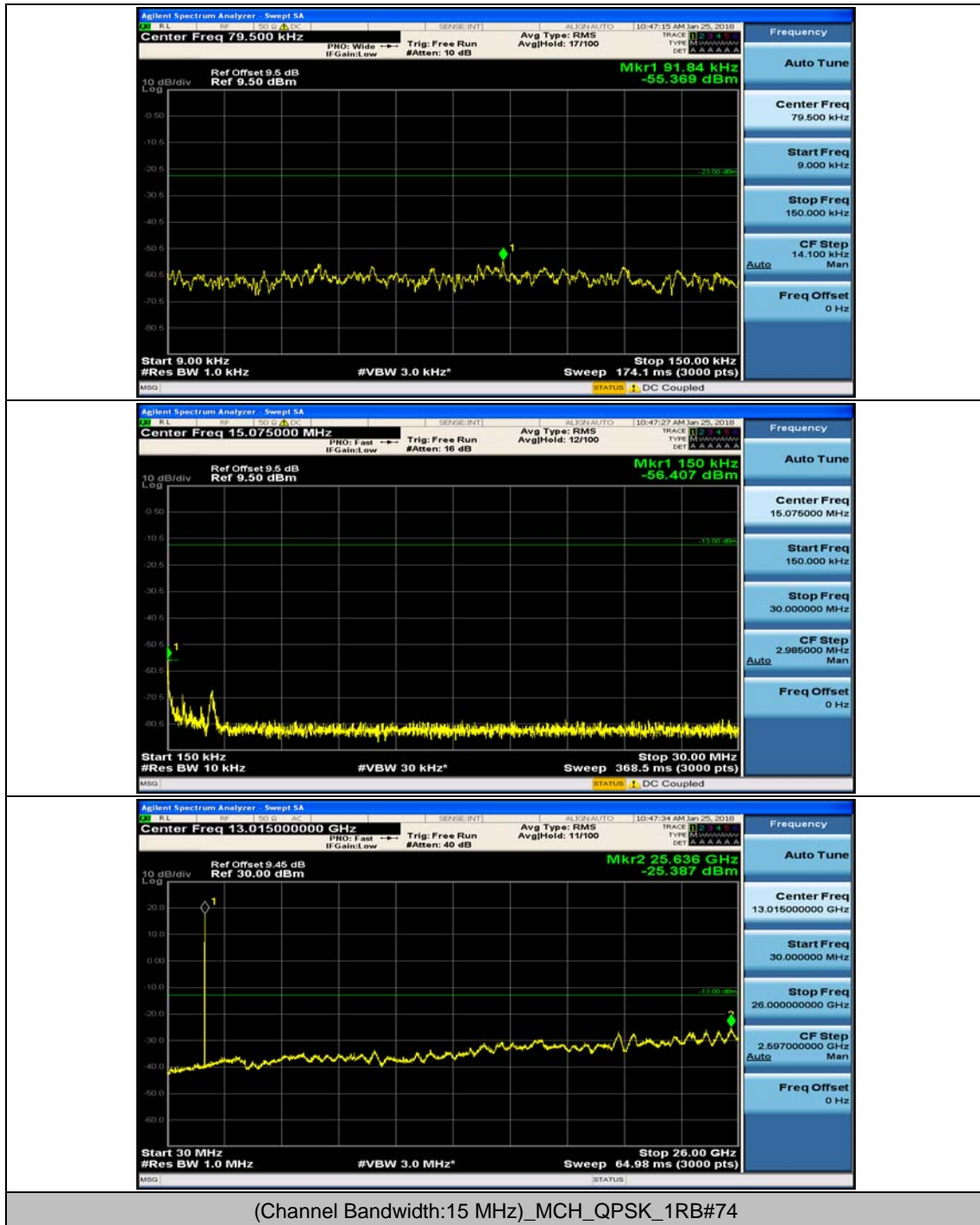


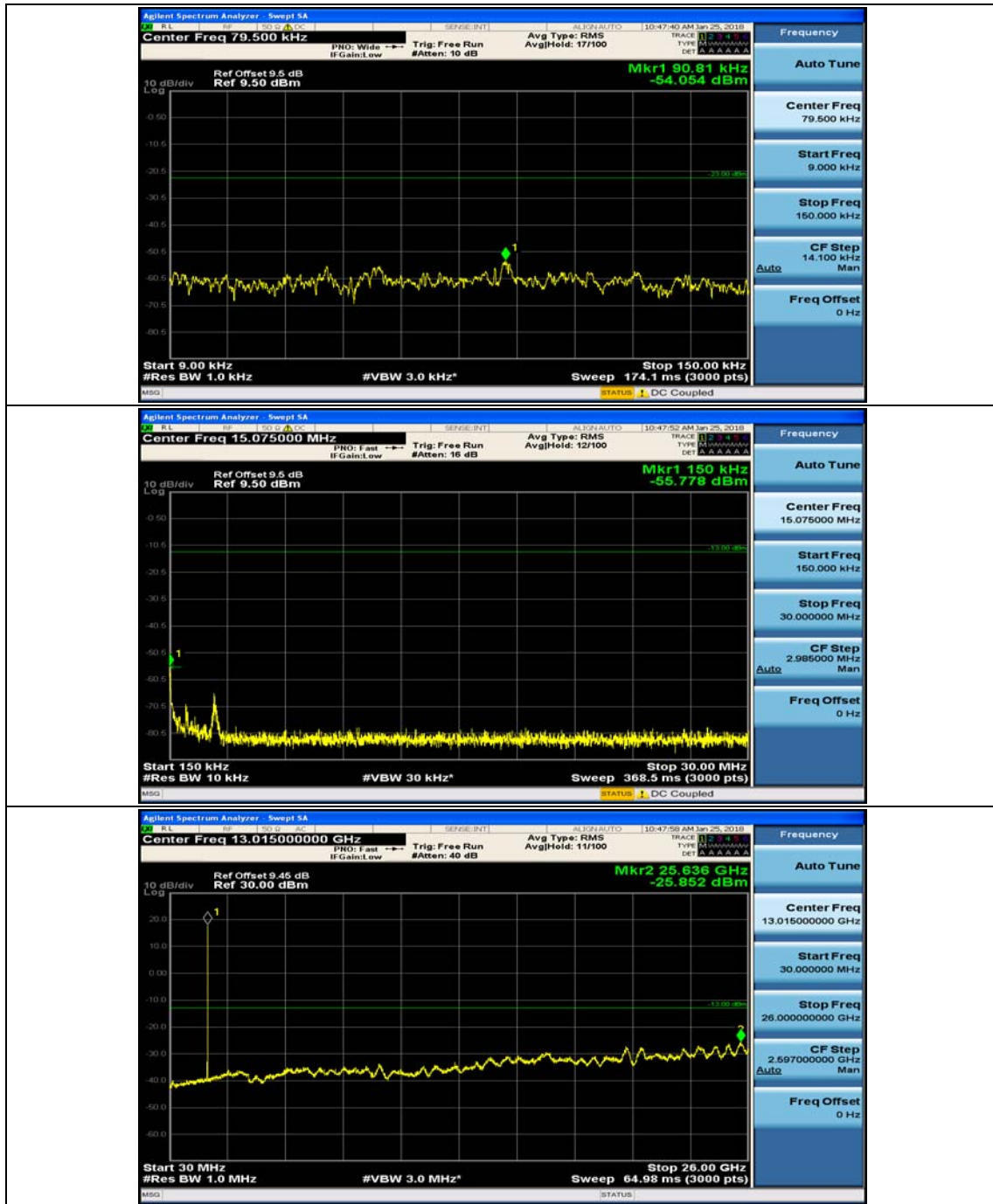


(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#0

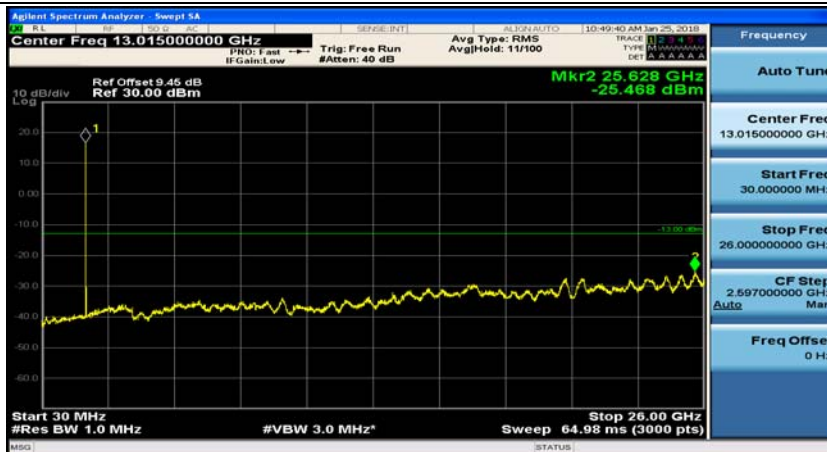
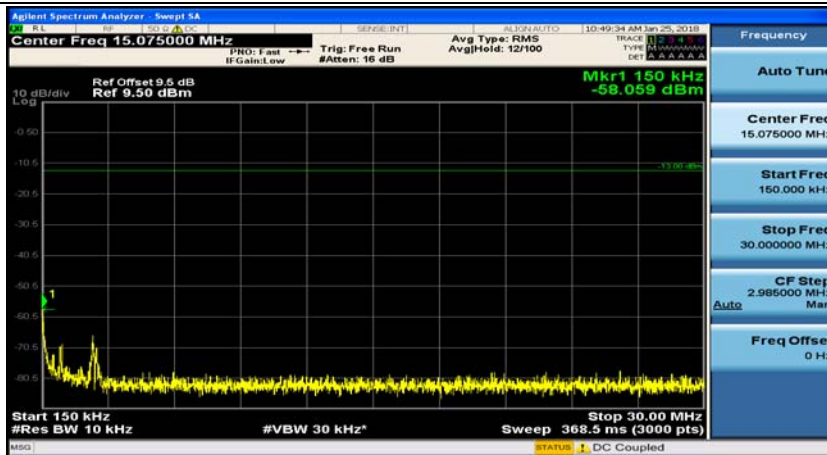


(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#37

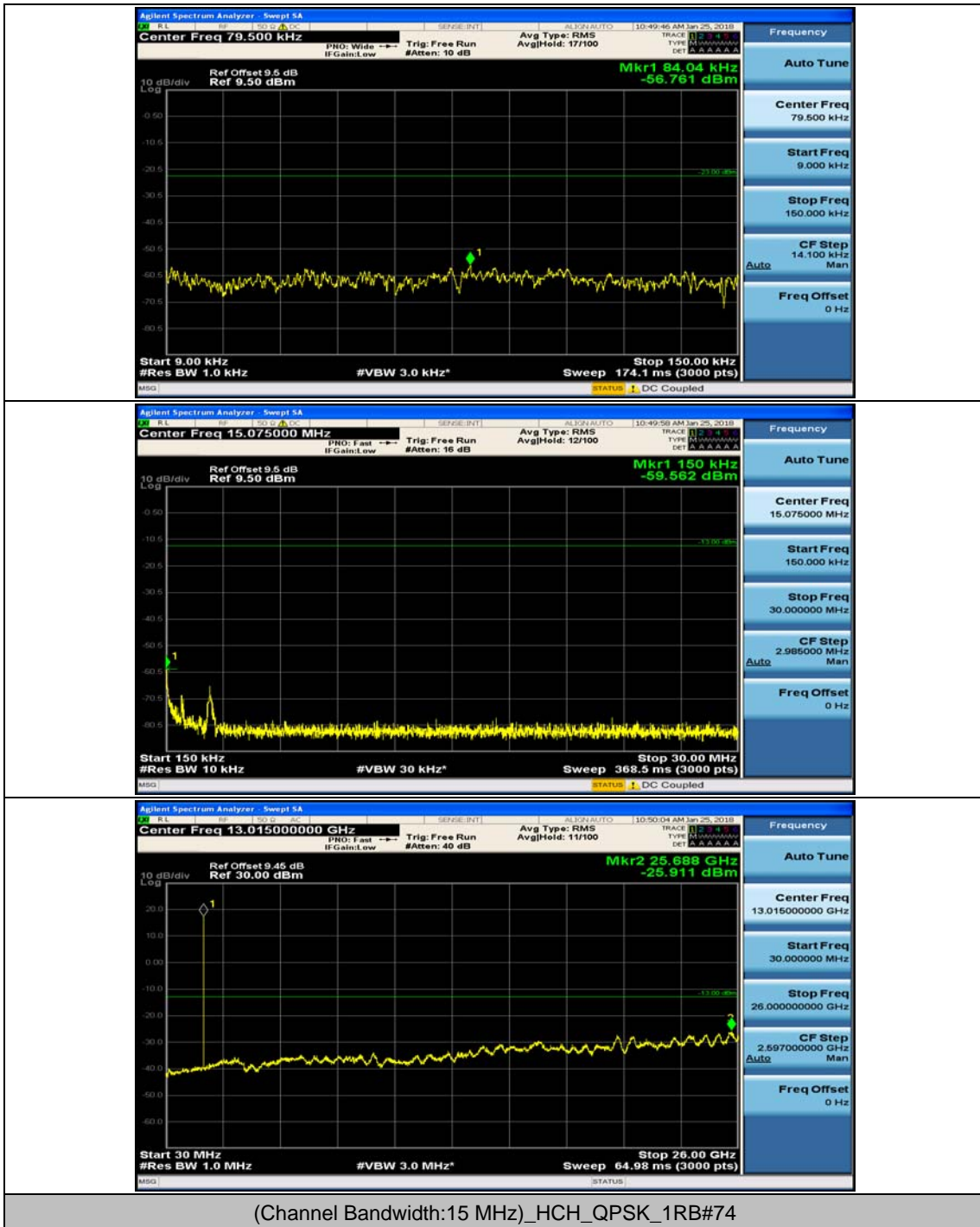


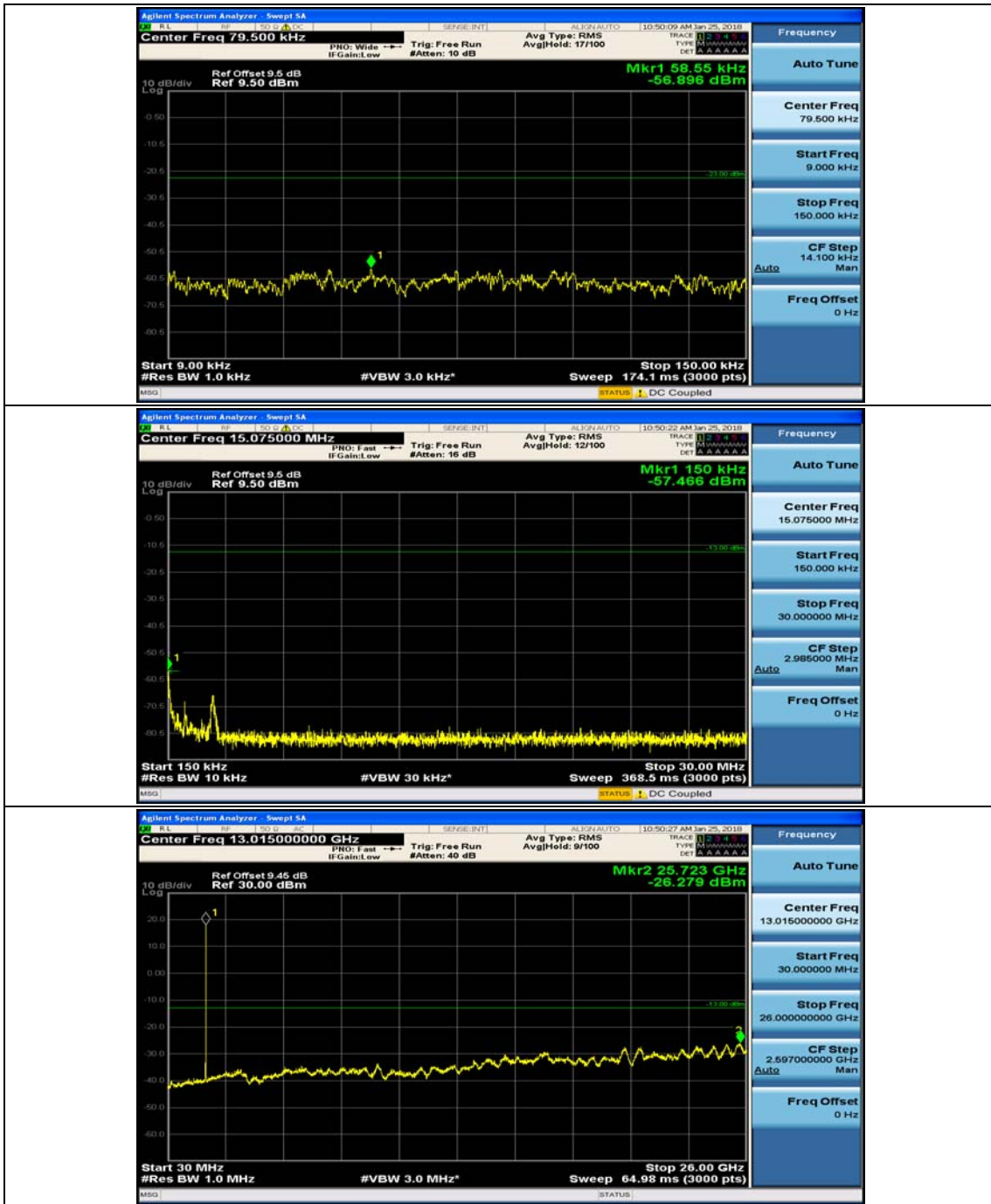


(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#0

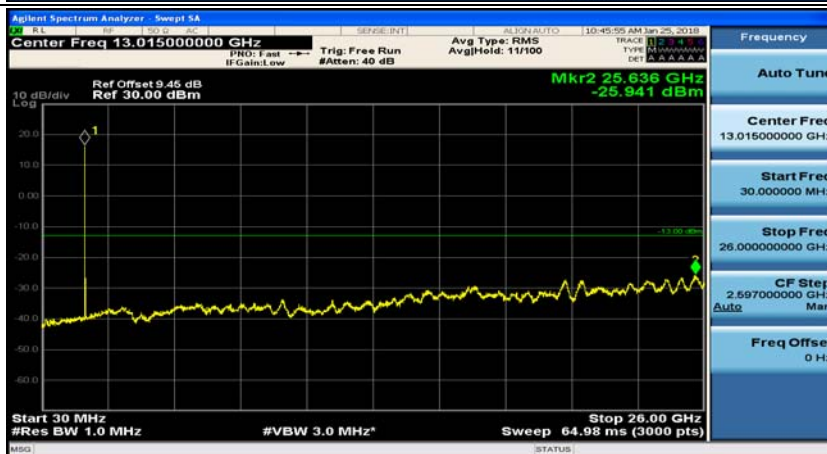
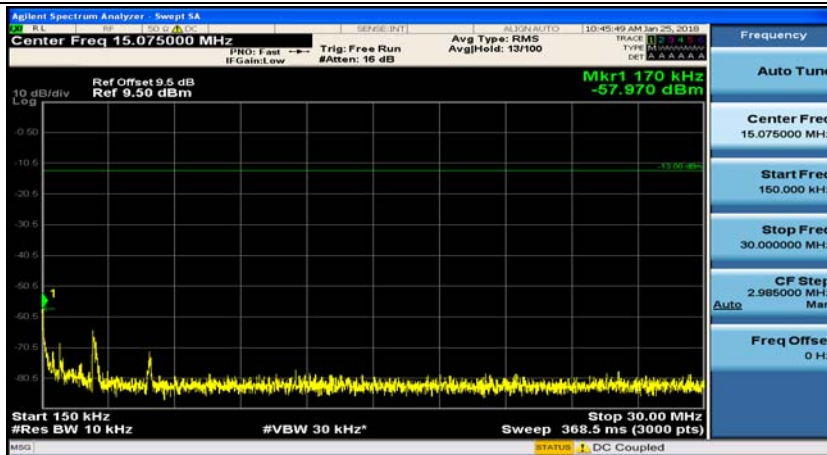
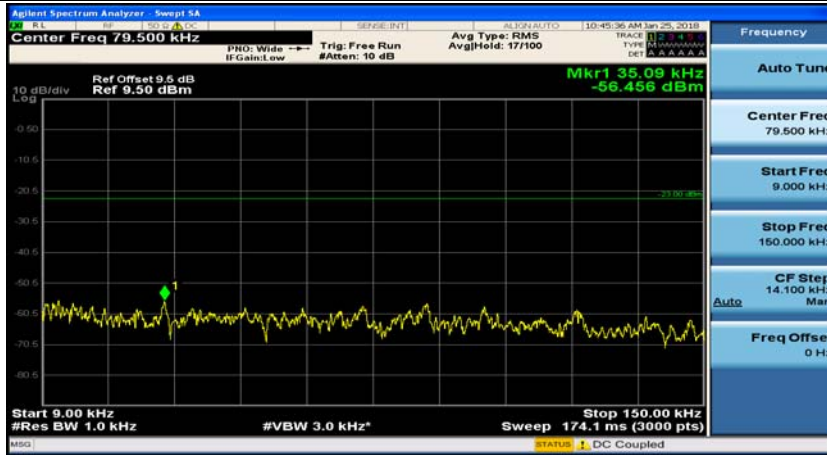


(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#37

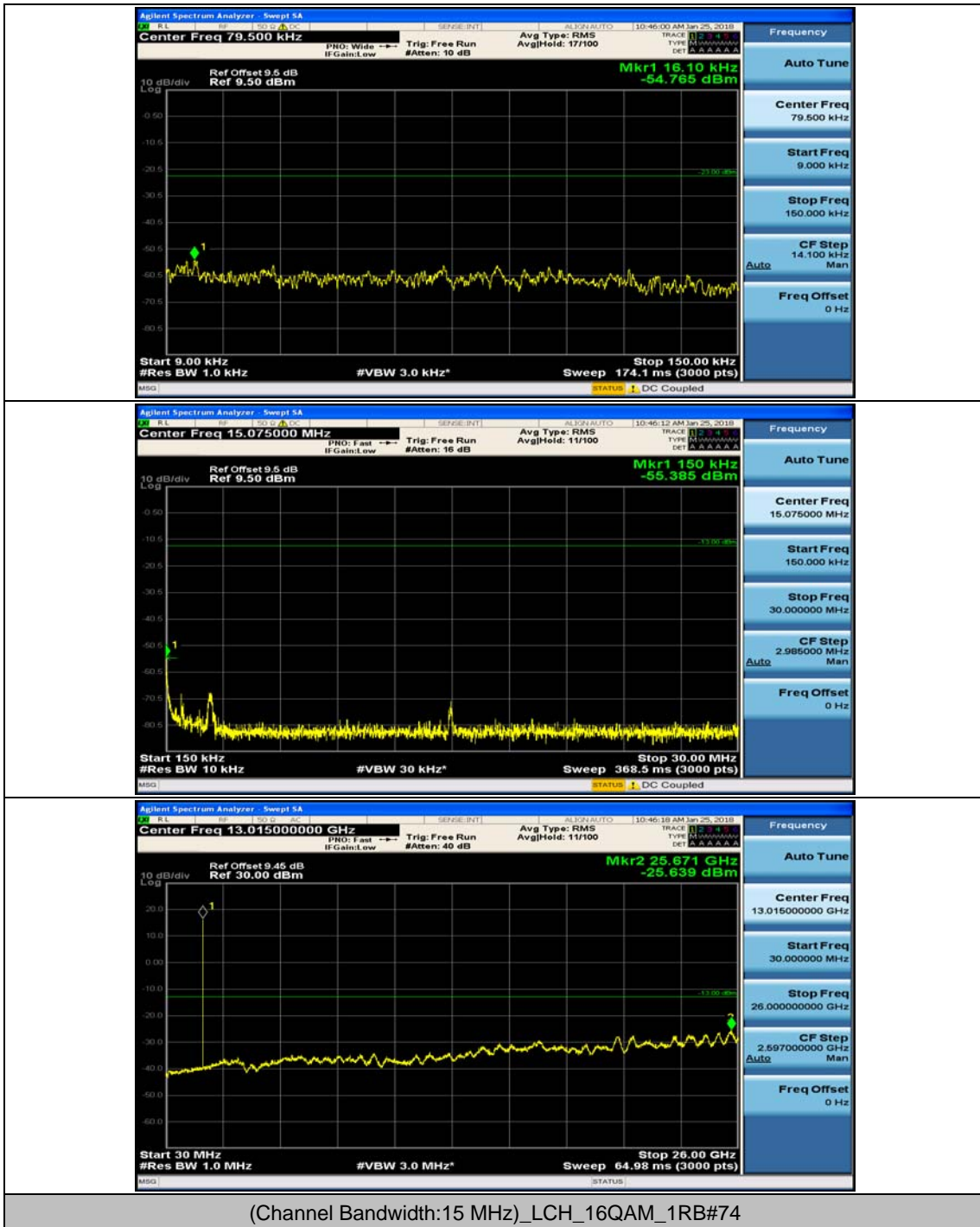


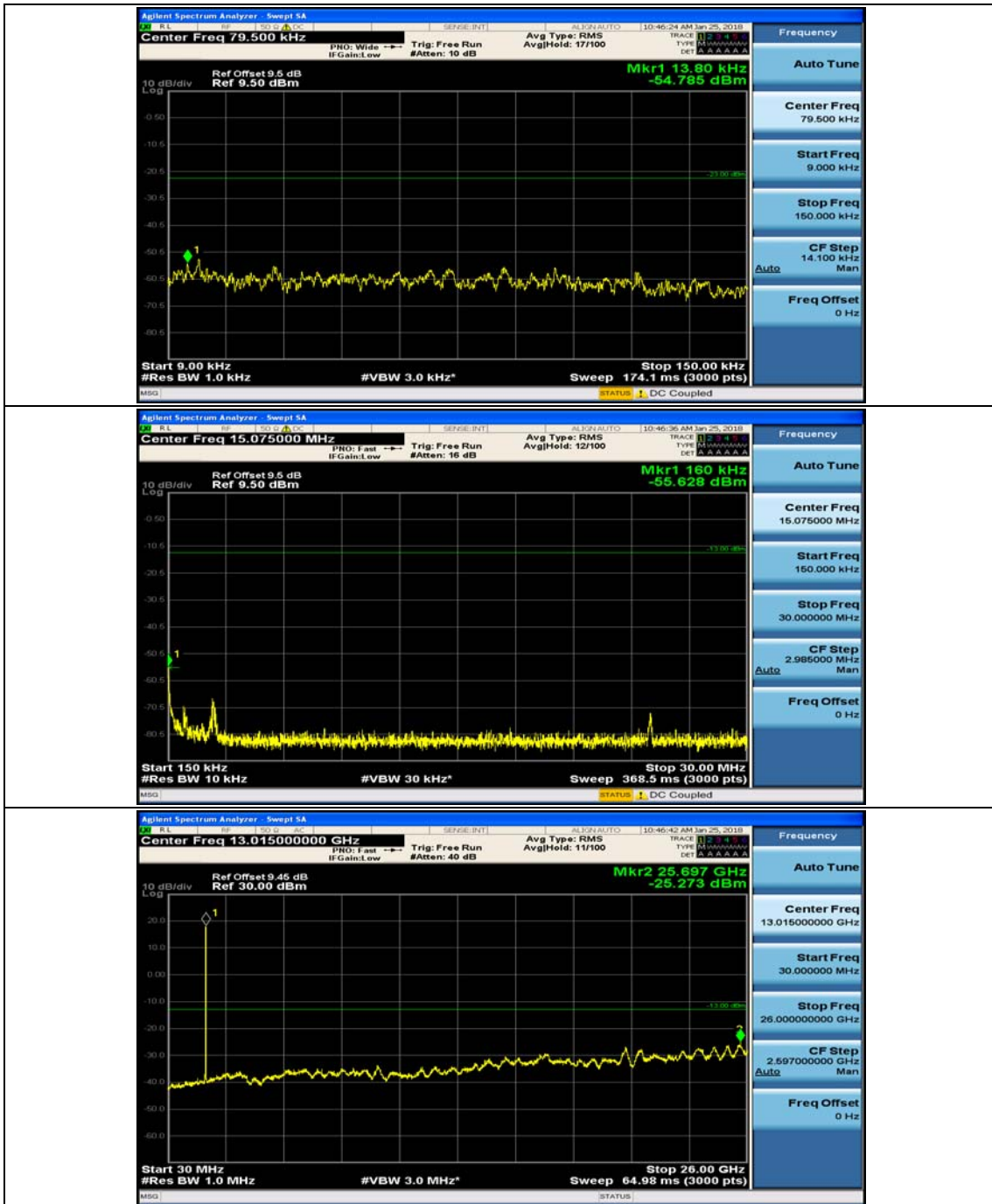


(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#0

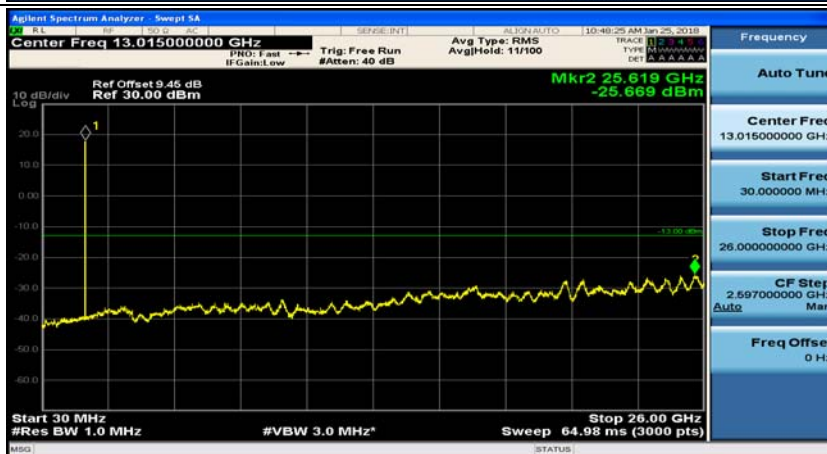
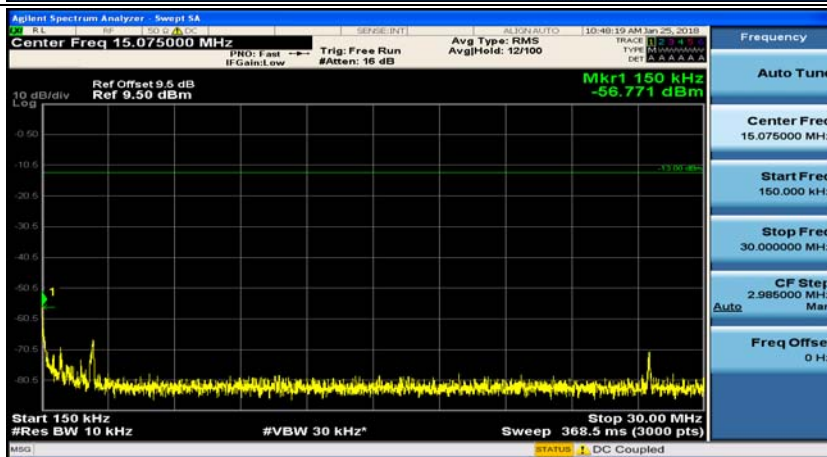
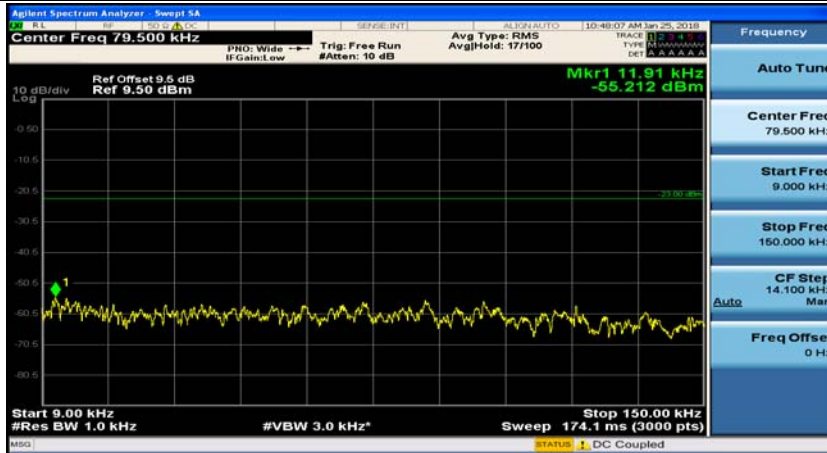


(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#37

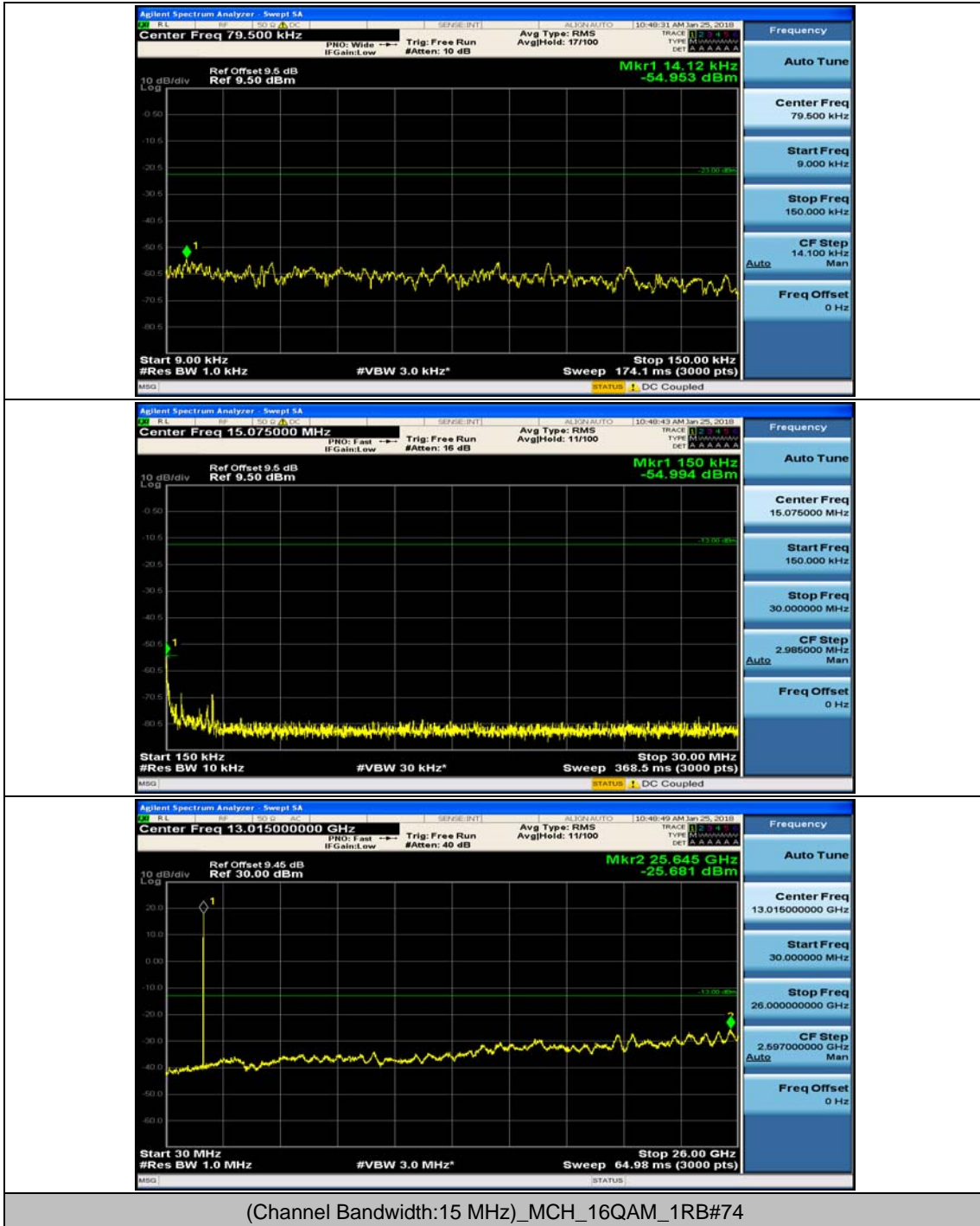


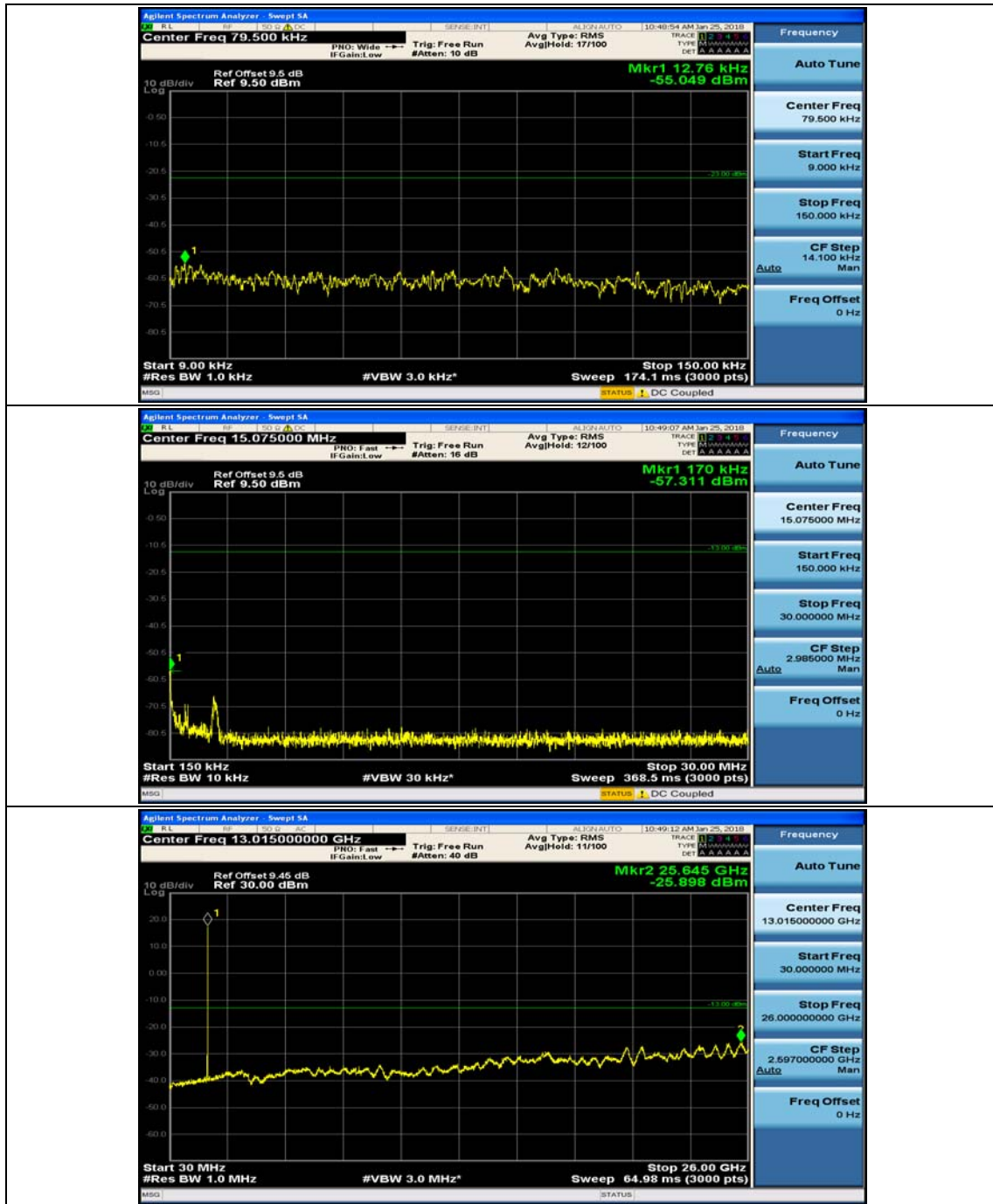


(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#0

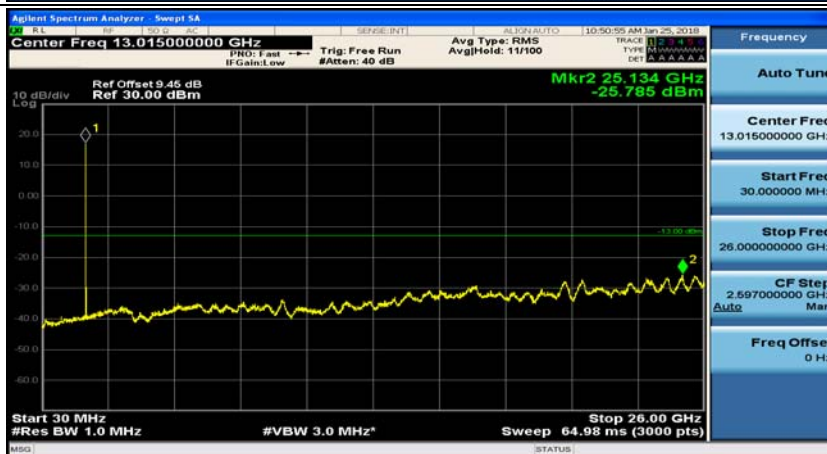
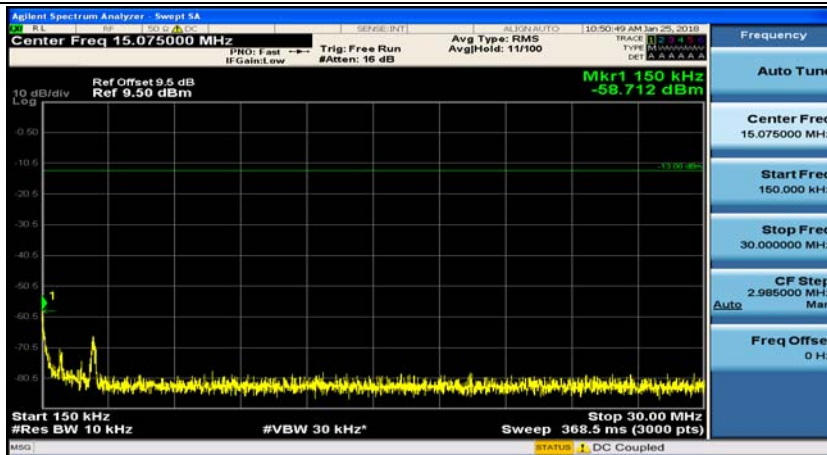


(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#37

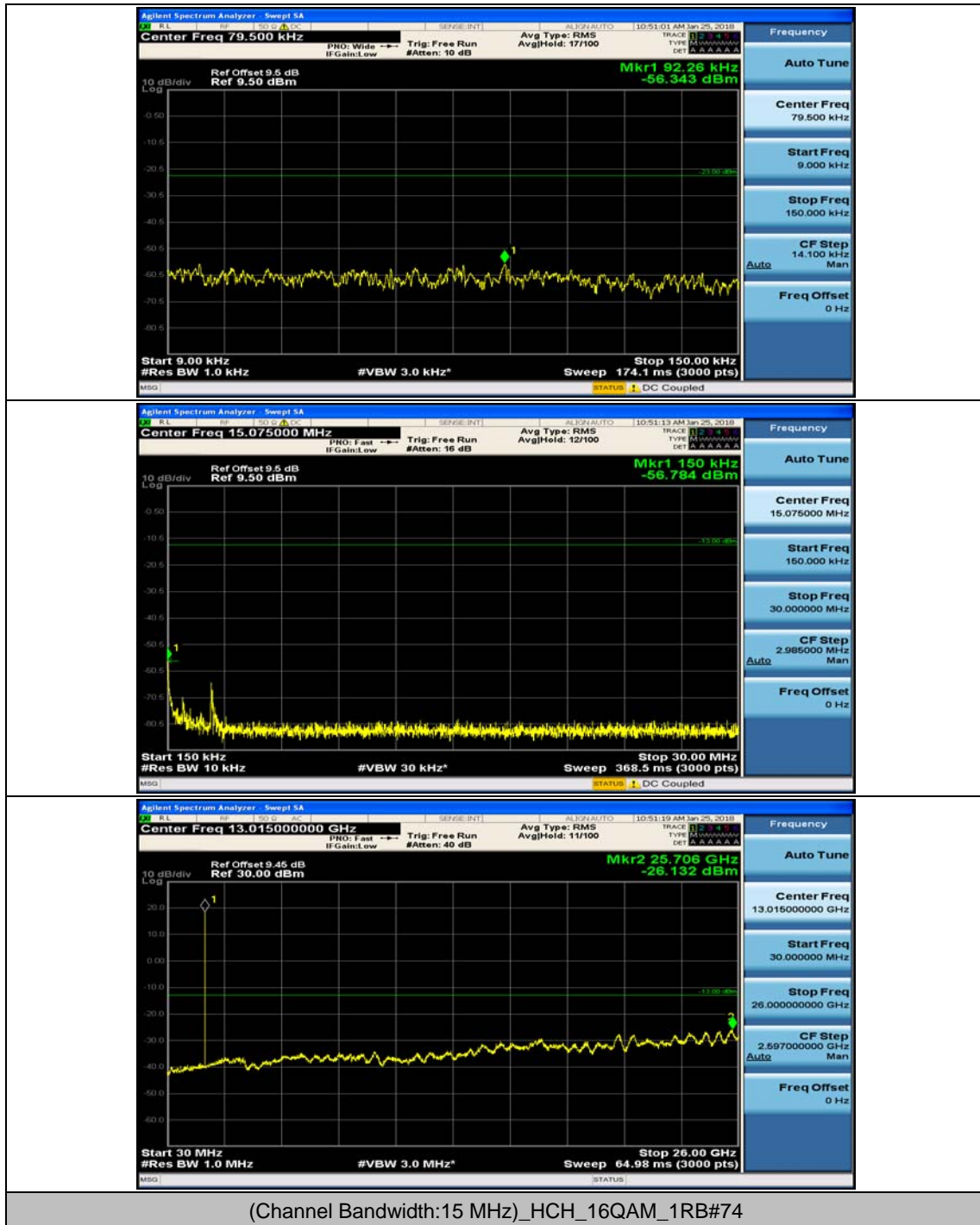


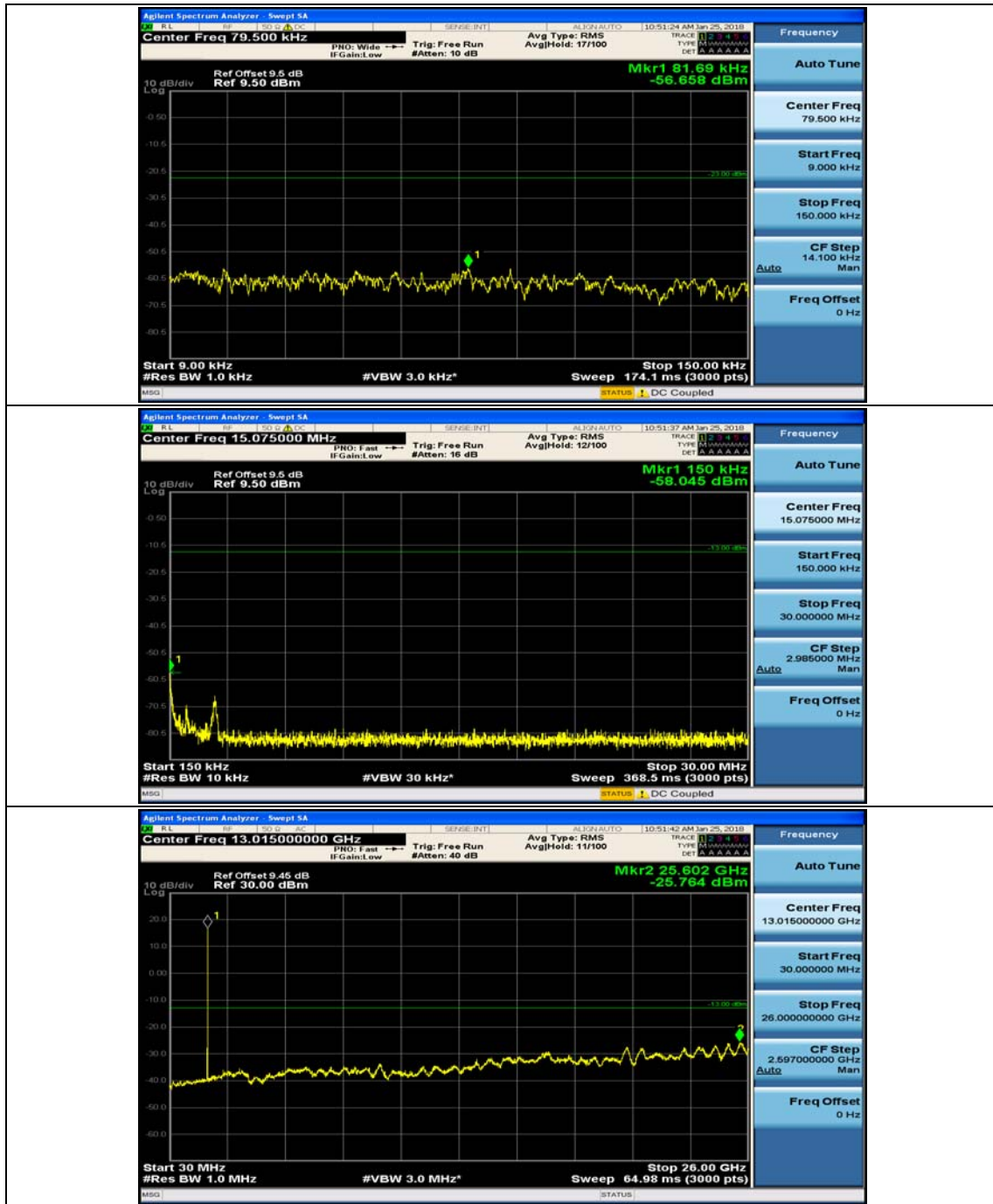


(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#0

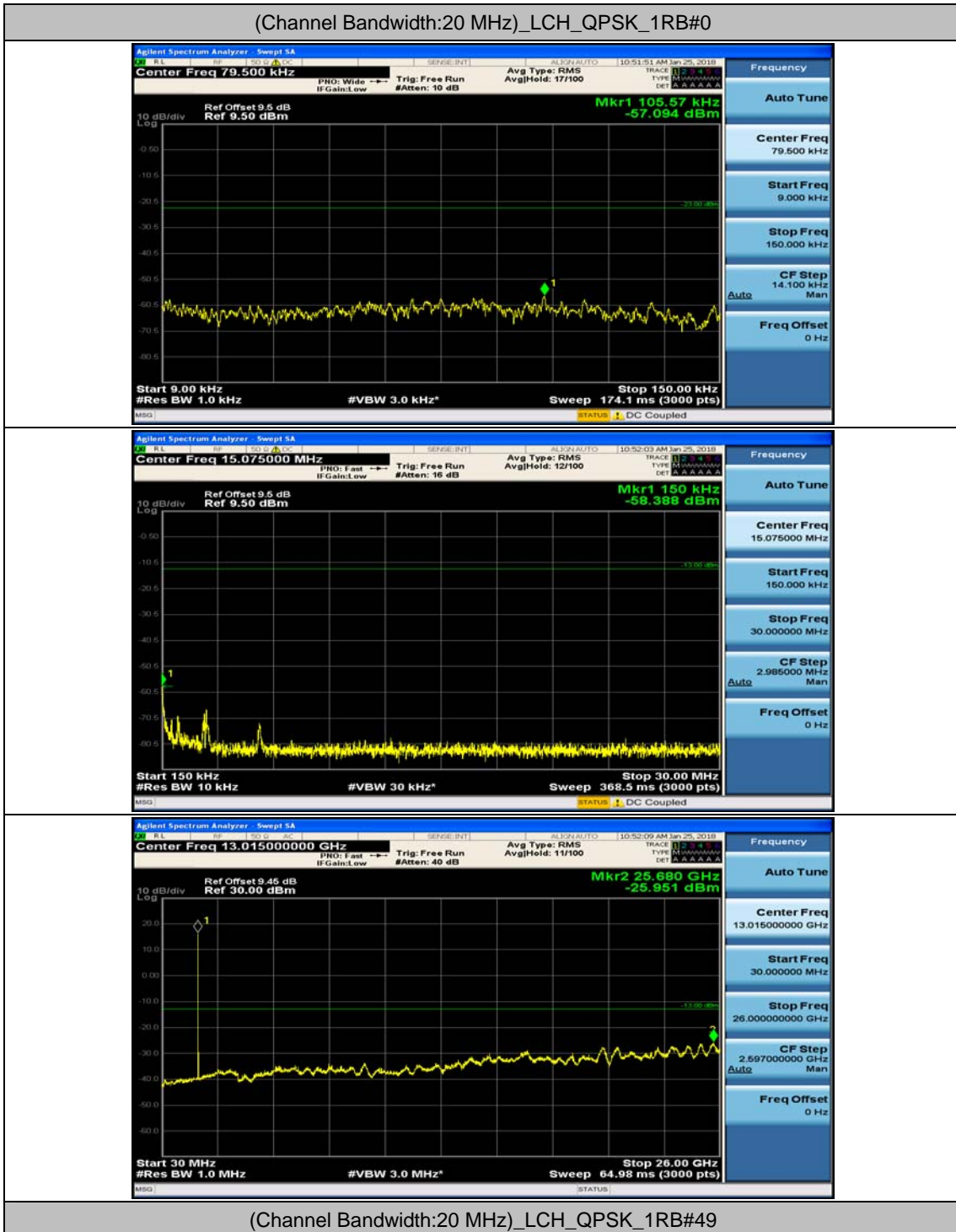


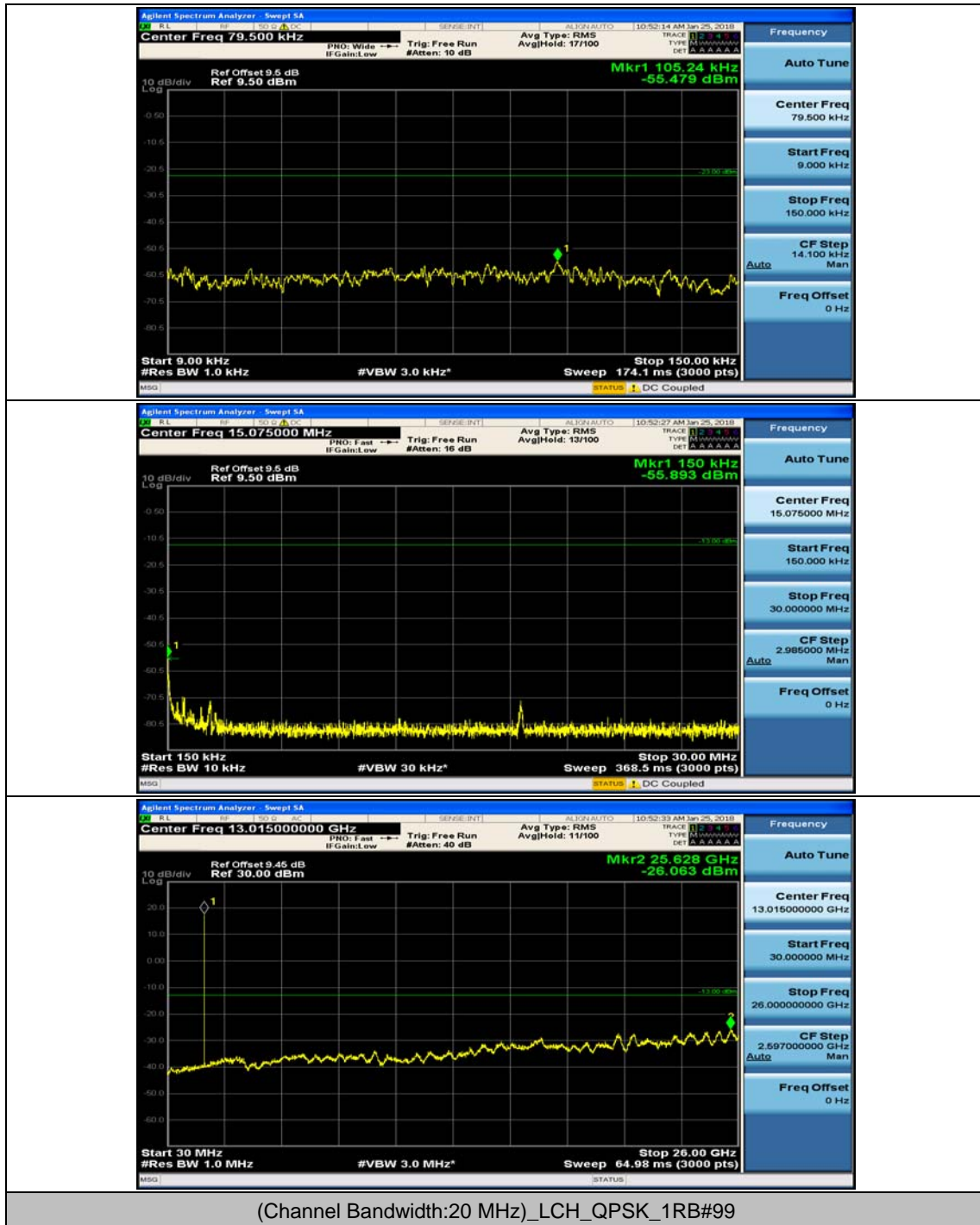
(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#37

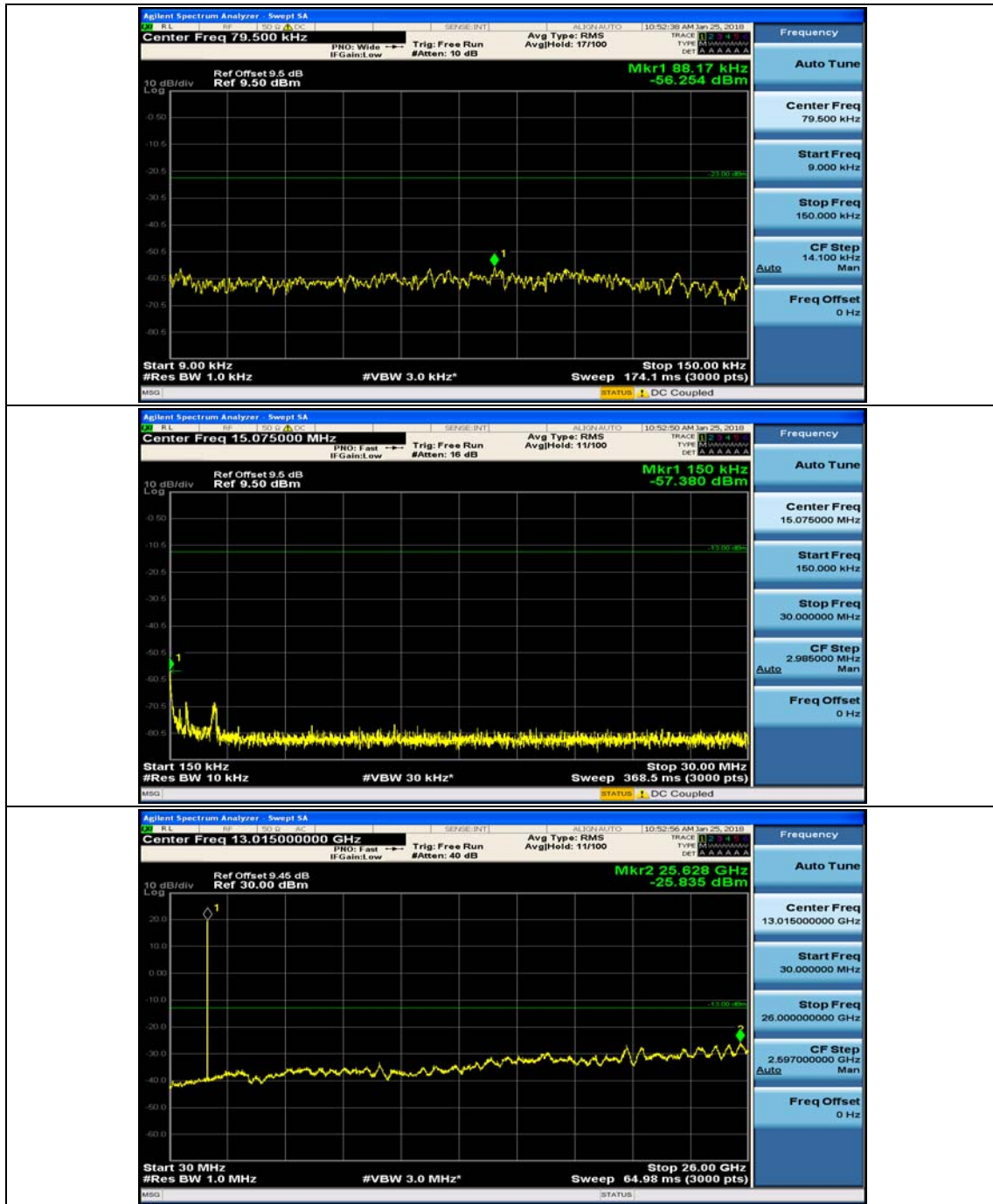




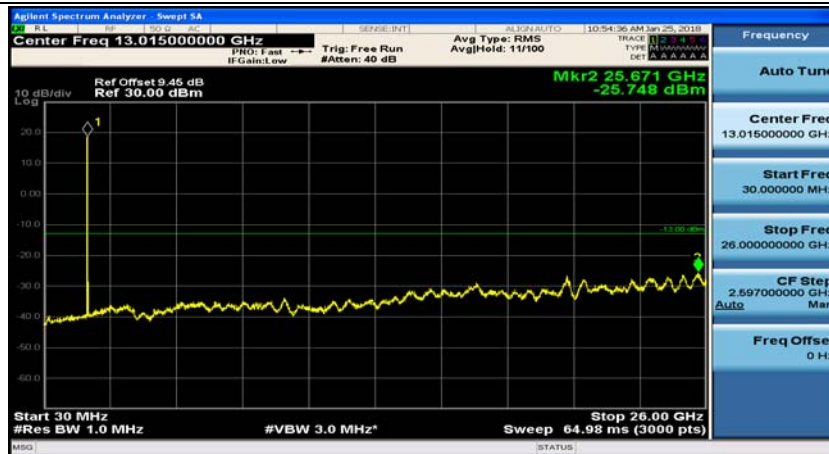
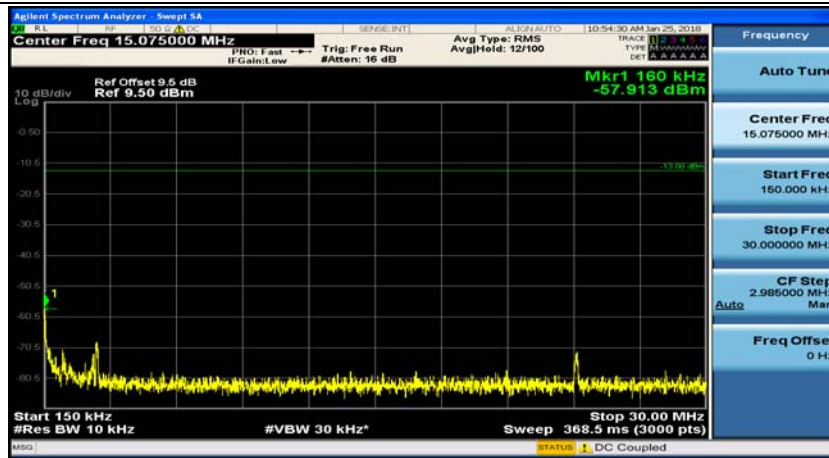
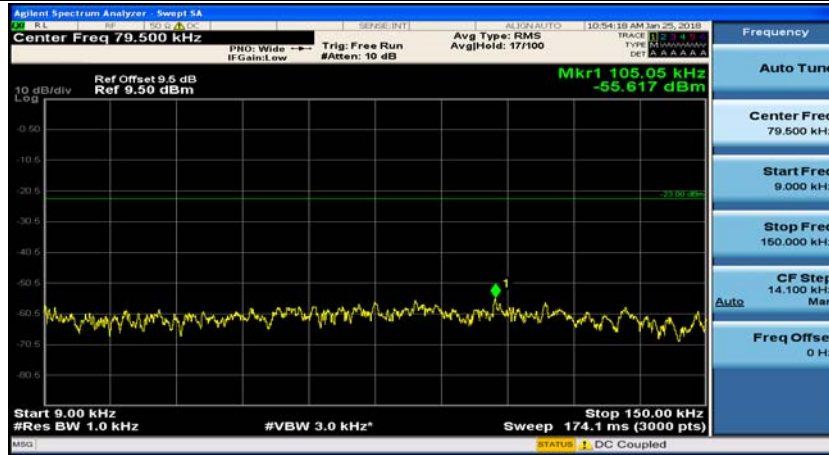
Channel Bandwidth: 20 MHz



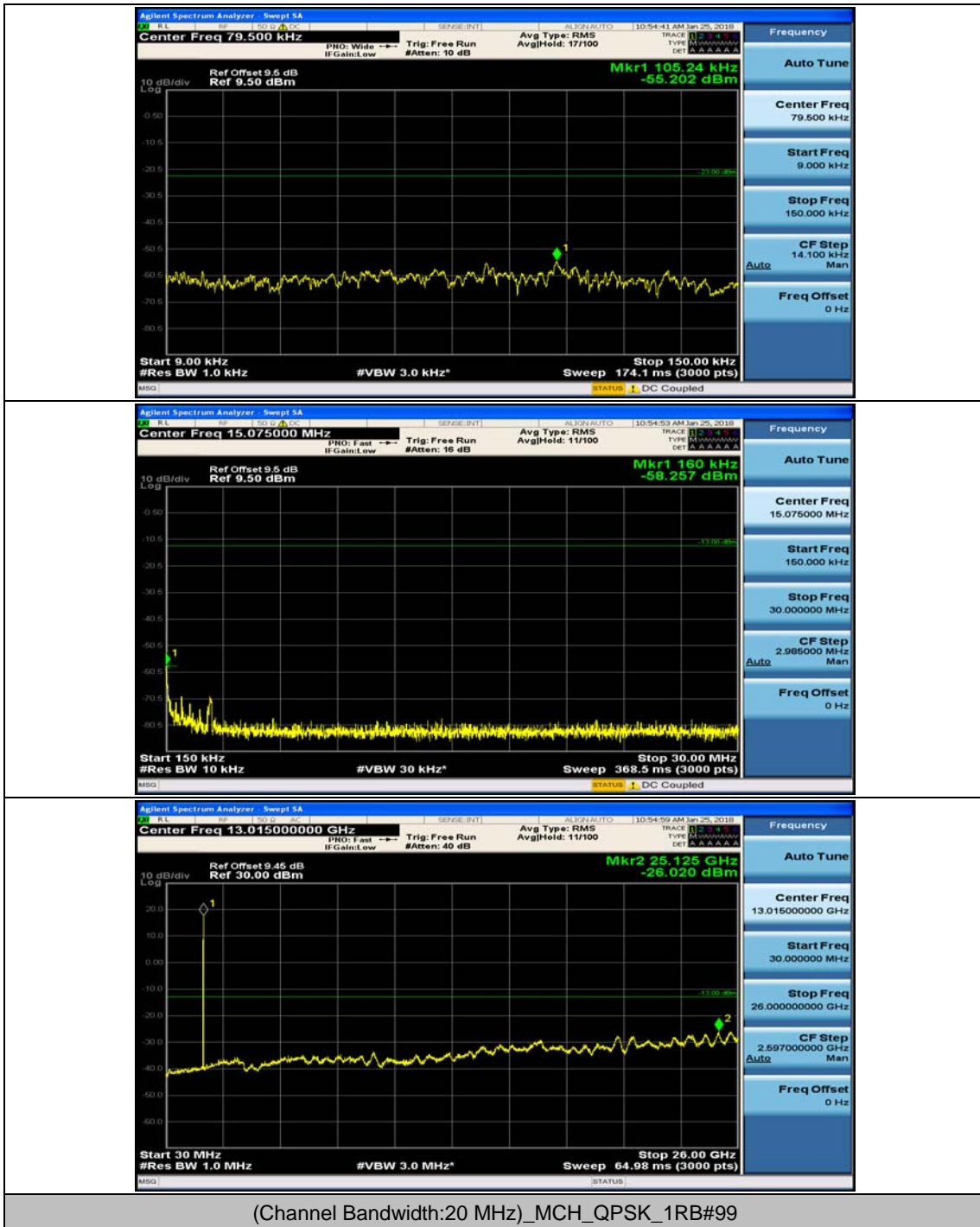


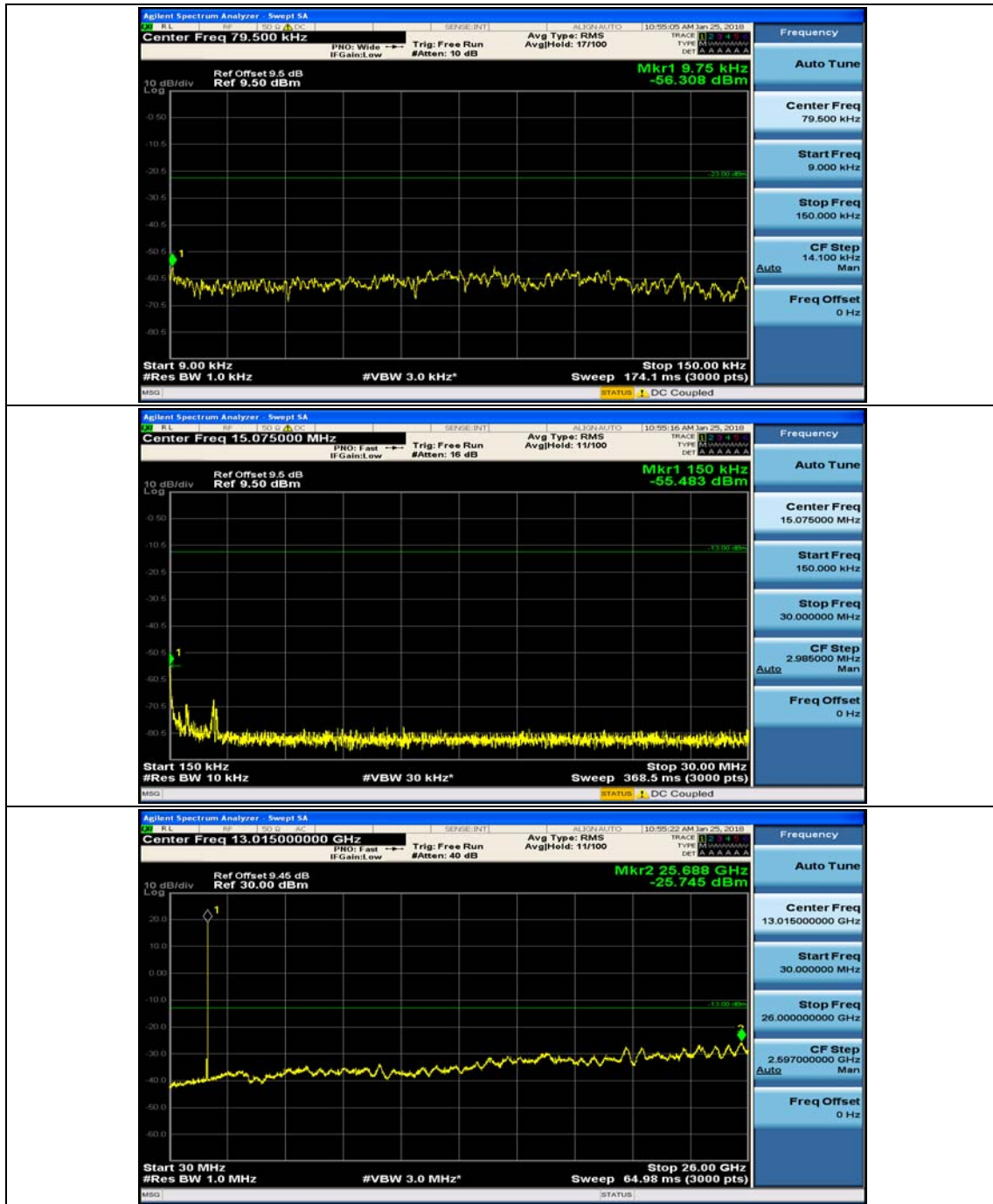


(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#0

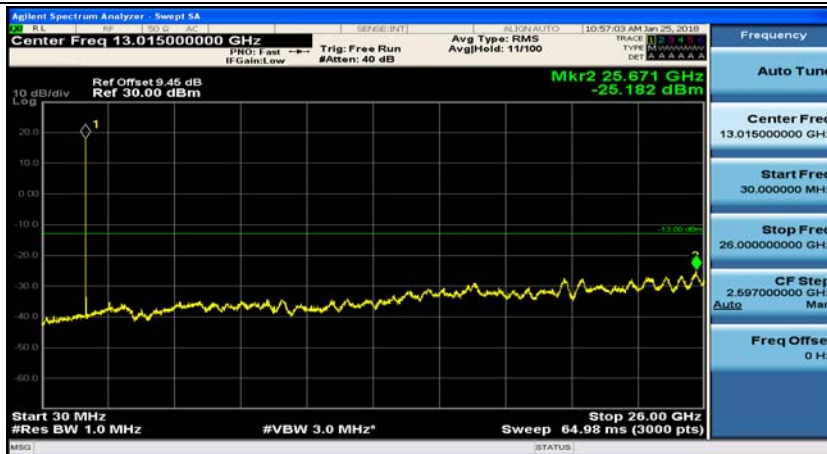
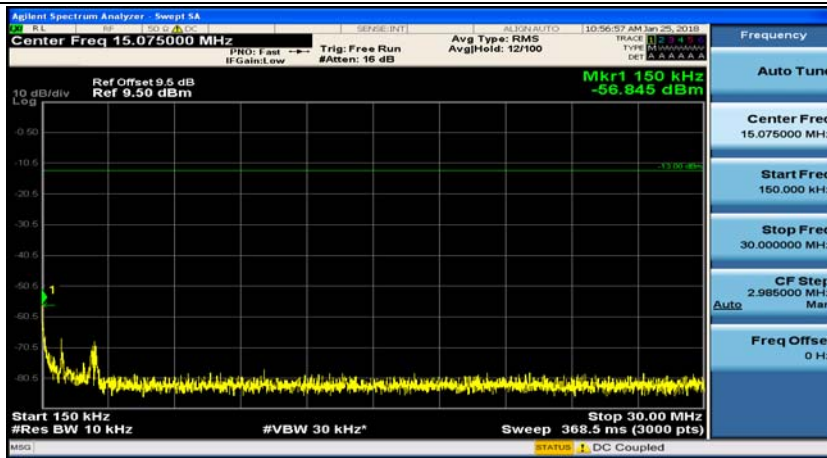
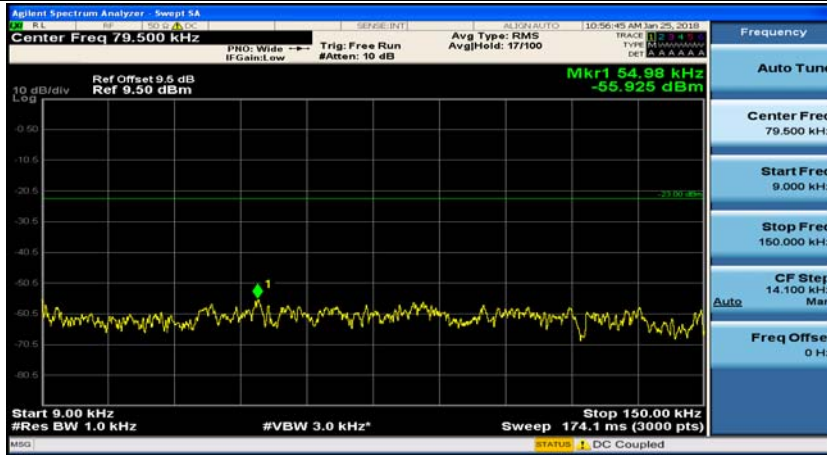


(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#49

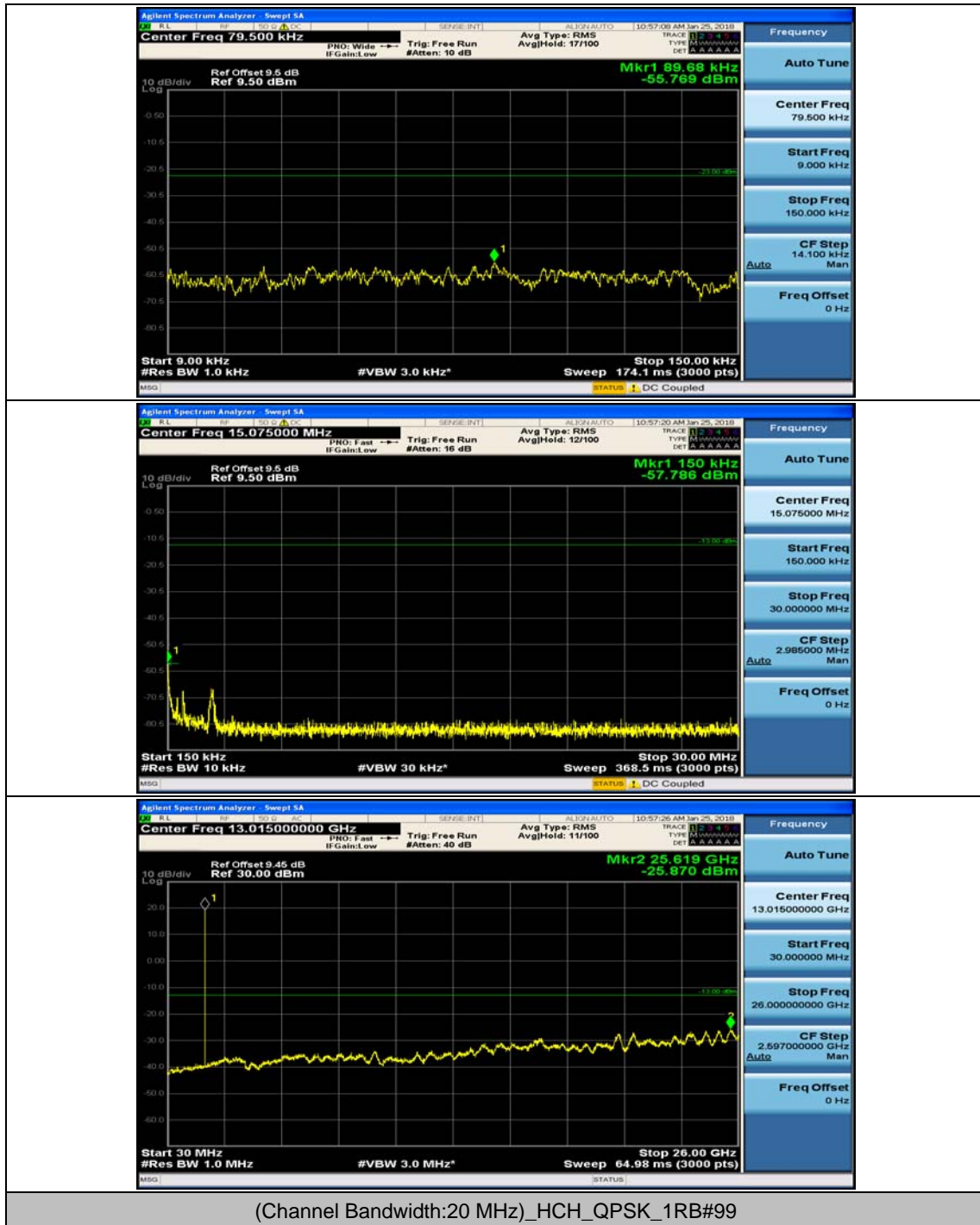


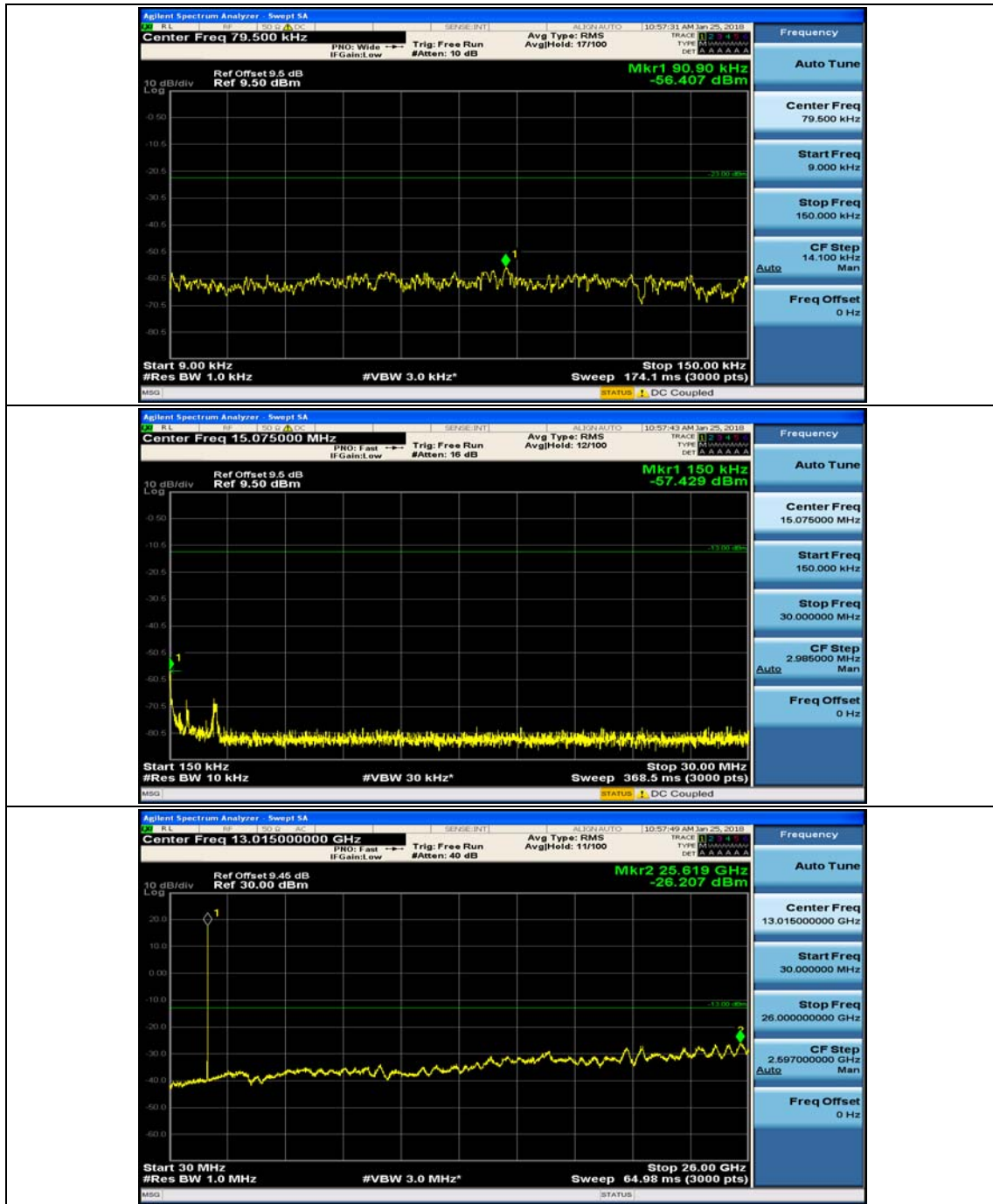


(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#0

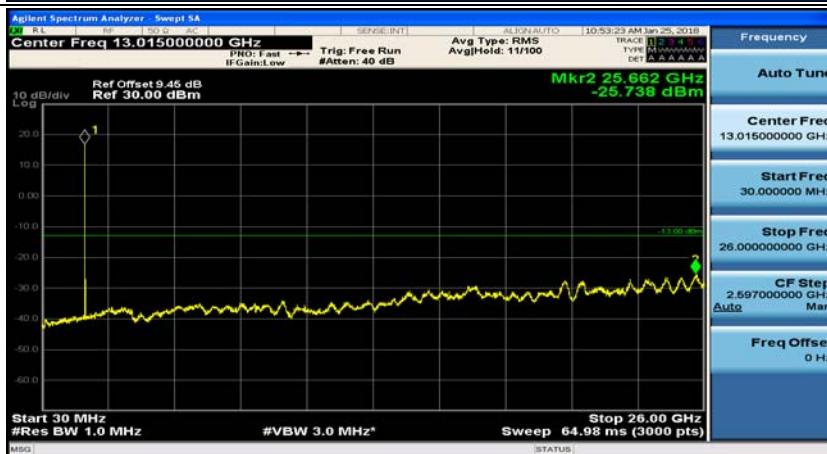
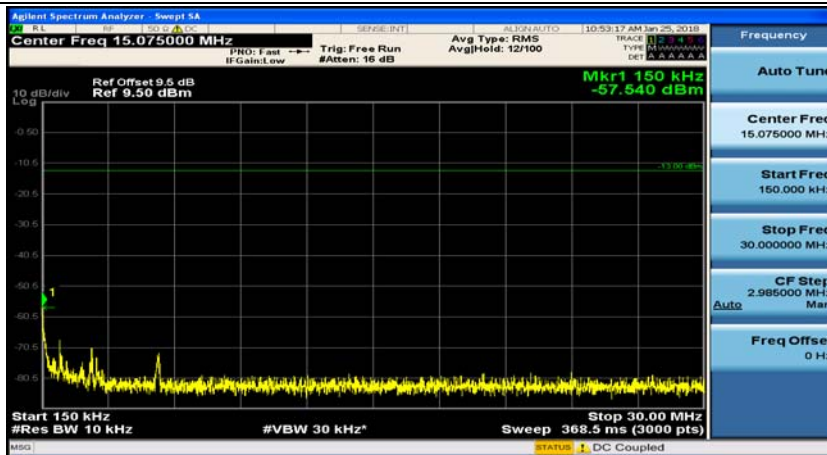


(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#49

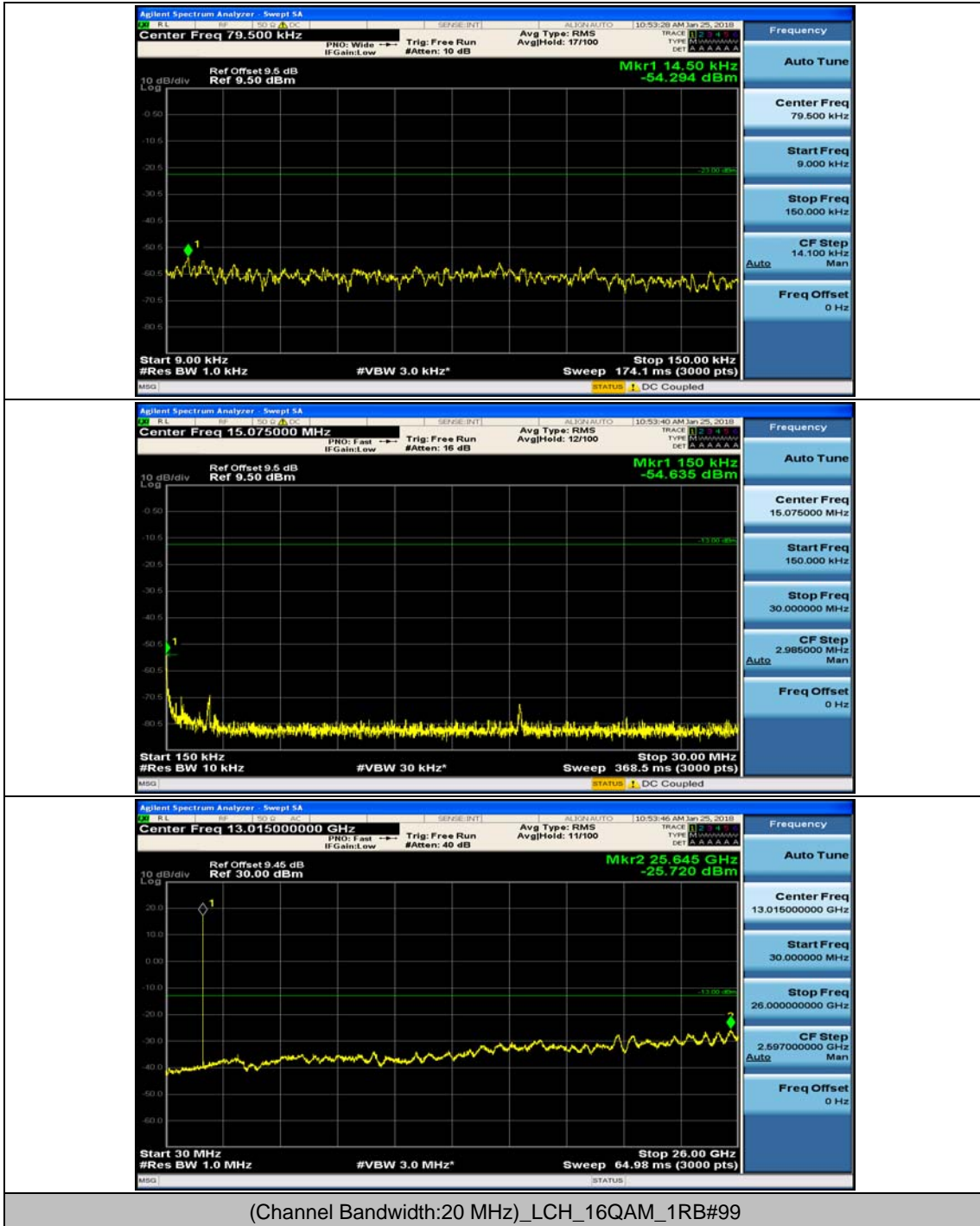


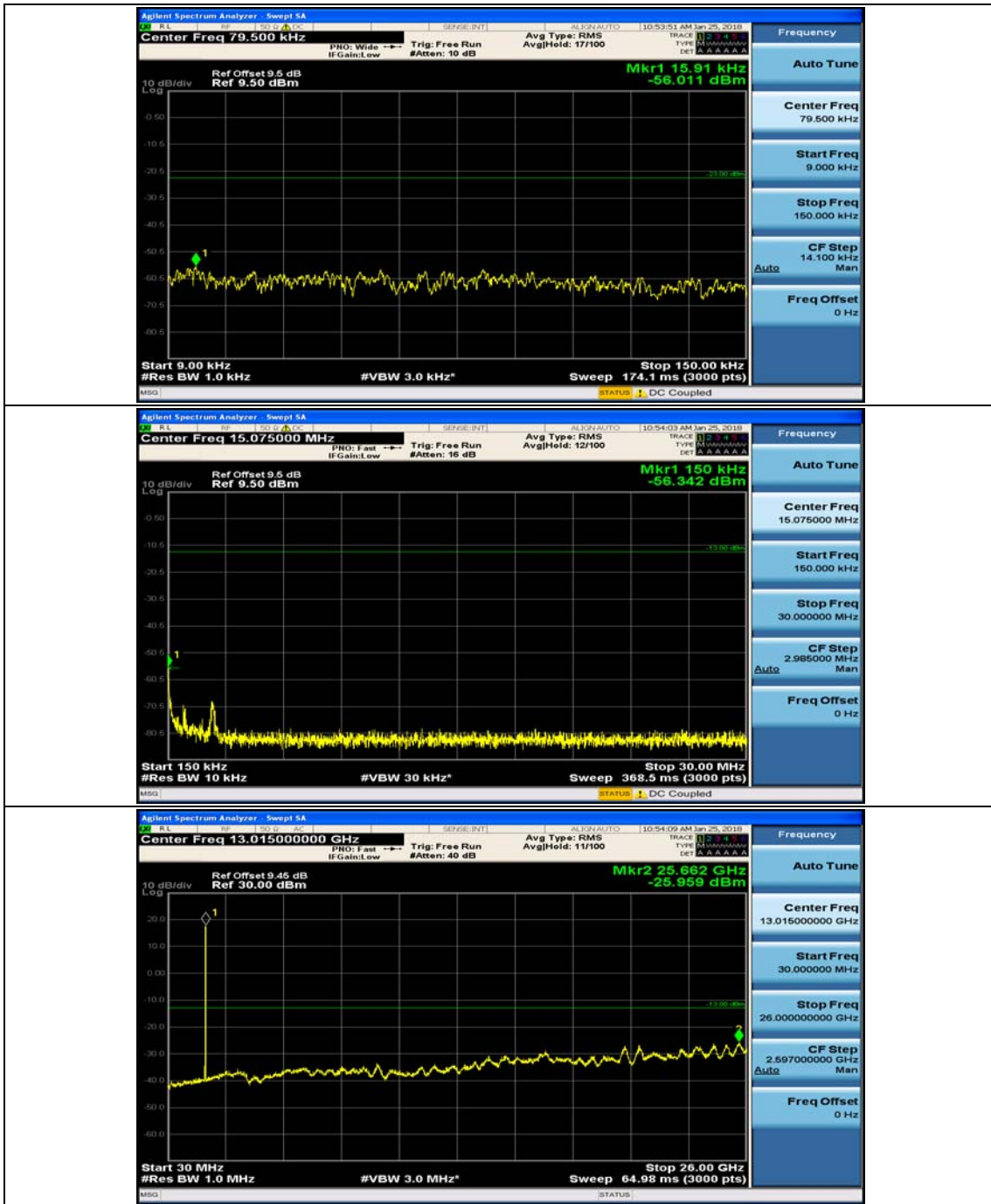


(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#0

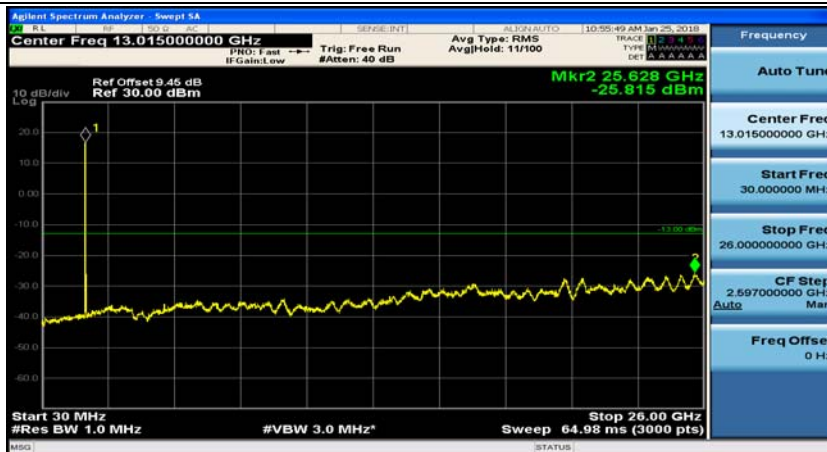
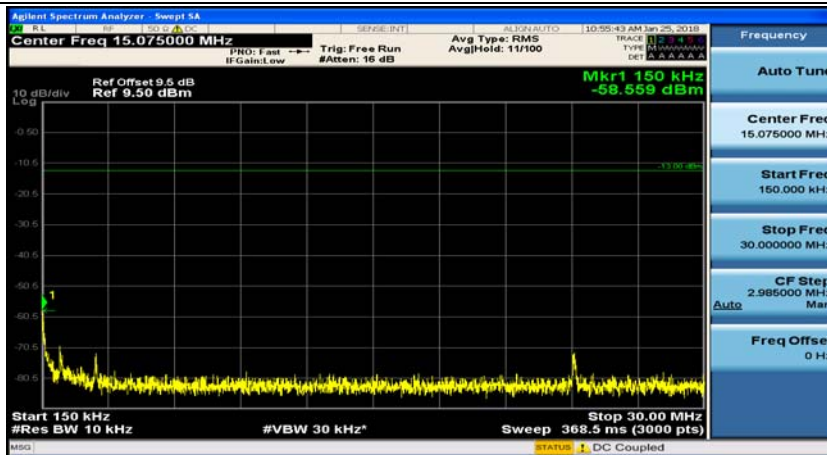
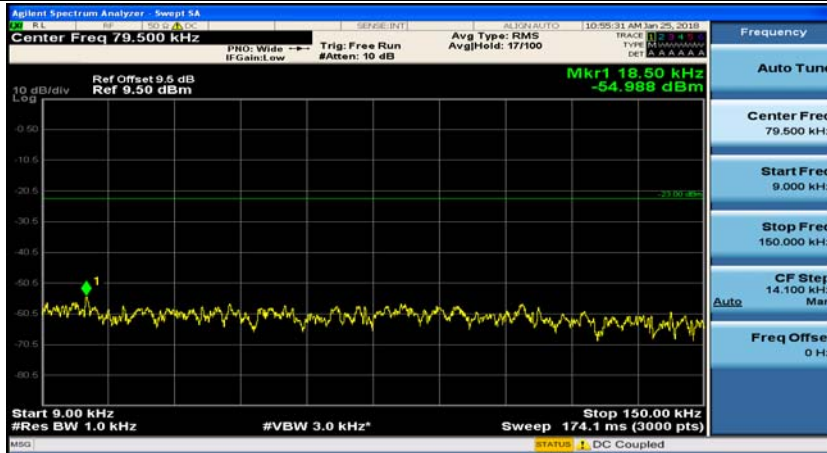


(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#49

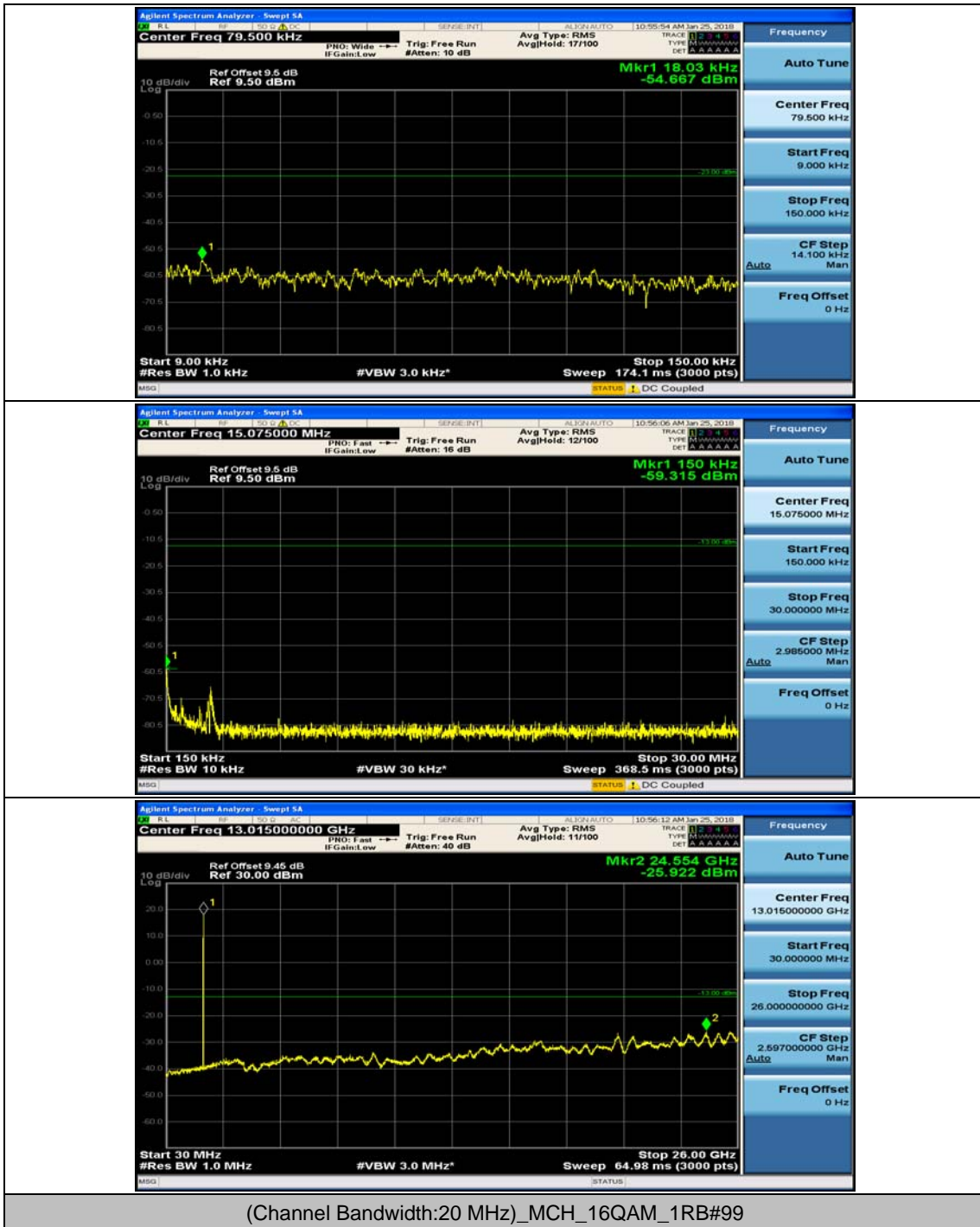


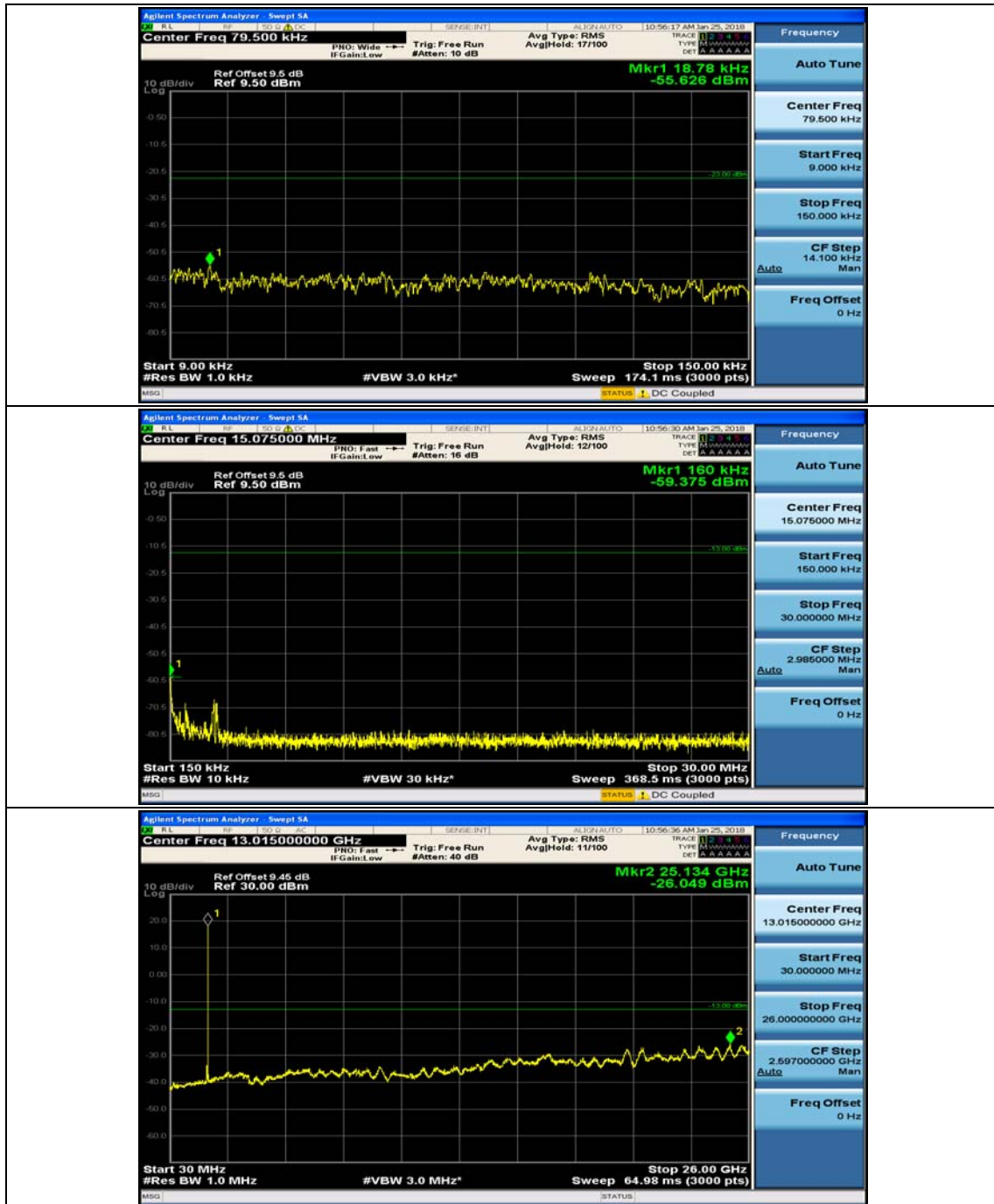


(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#0

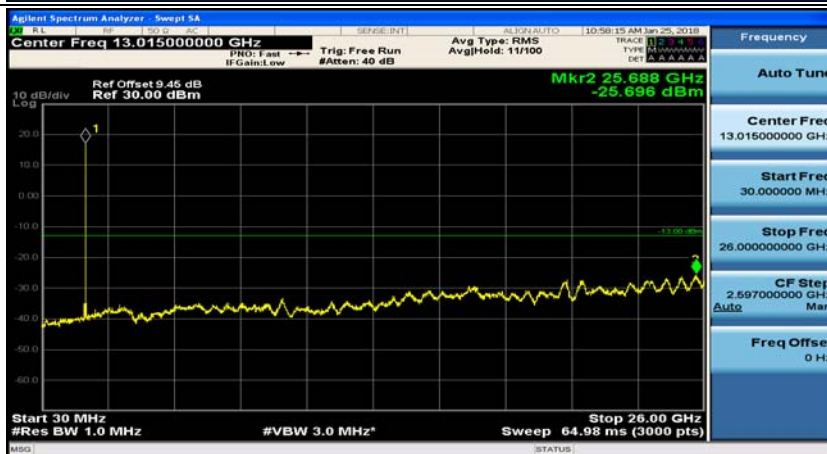
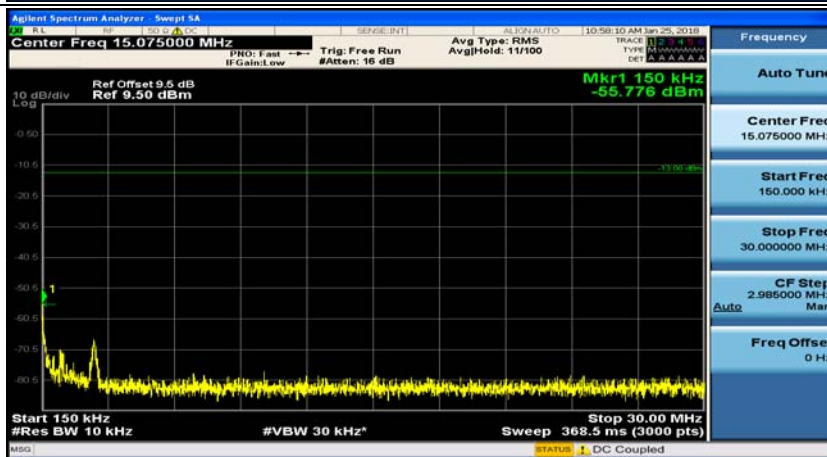
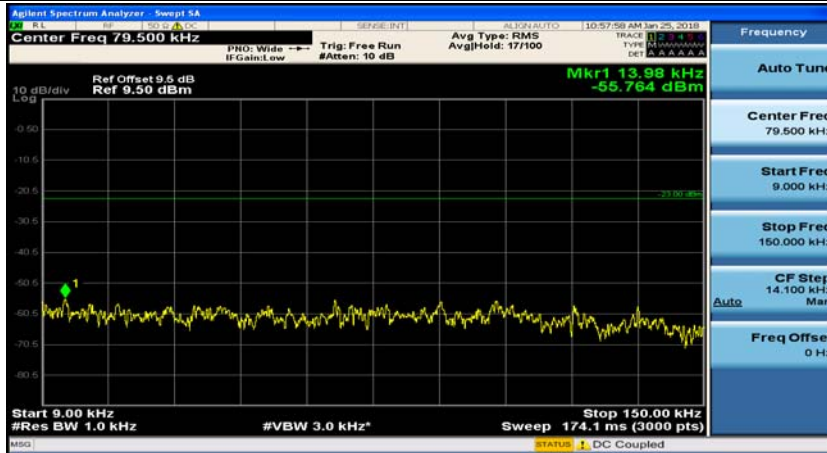


(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#49

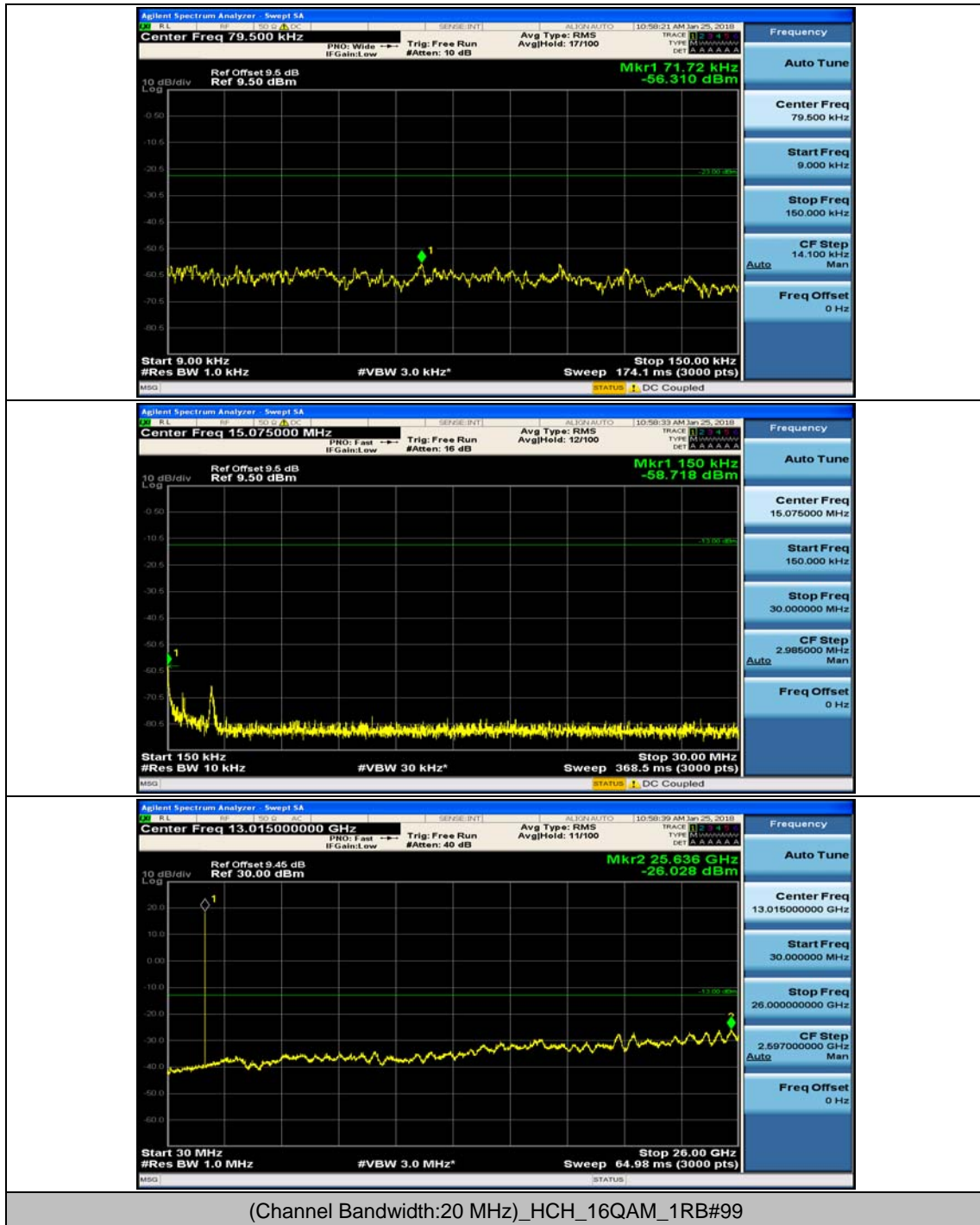


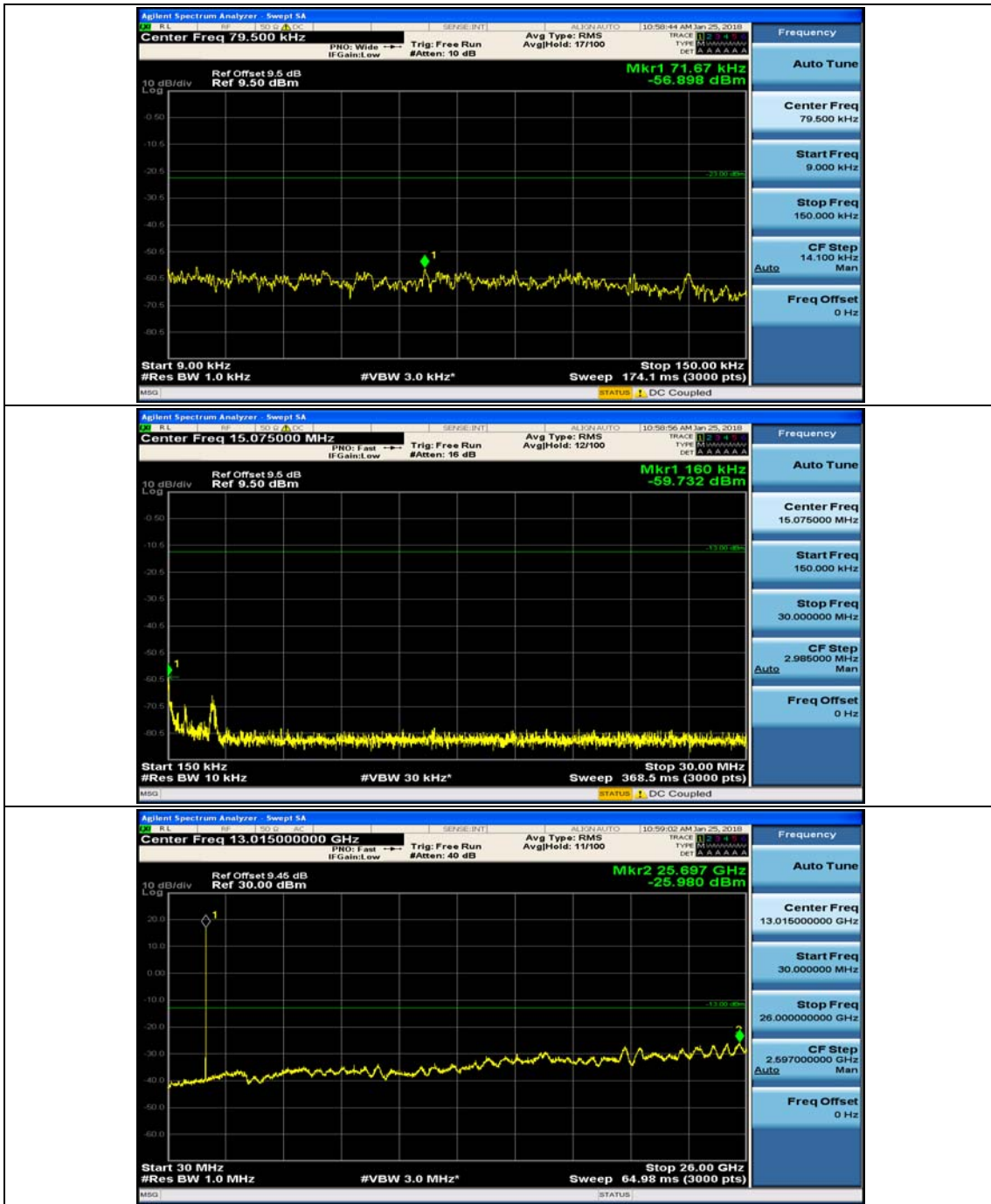


(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#0



(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	3.4	0.001987	± 2.5	PASS
		VN	TN	-0.89	-0.000520	± 2.5	PASS
		VH	TN	-0.2	-0.000117	± 2.5	PASS
	MCH	VL	TN	1.18	0.000681	± 2.5	PASS
		VN	TN	1.76	0.001016	± 2.5	PASS
		VH	TN	-0.95	-0.000548	± 2.5	PASS
	HCH	VL	TN	0.15	0.000086	± 2.5	PASS
		VN	TN	-0.04	-0.000023	± 2.5	PASS
		VH	TN	2.44	0.001391	± 2.5	PASS
16QAM	LCH	VL	TN	4.24	0.002479	± 2.5	PASS
		VN	TN	-1.73	-0.001011	± 2.5	PASS
		VH	TN	3.69	0.002157	± 2.5	PASS
	MCH	VL	TN	2.15	0.001241	± 2.5	PASS
		VN	TN	-1.85	-0.001068	± 2.5	PASS
		VH	TN	-1.23	-0.000710	± 2.5	PASS
	HCH	VL	TN	0.07	0.000040	± 2.5	PASS
		VN	TN	0.52	0.000296	± 2.5	PASS
		VH	TN	0.14	0.000080	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.42	0.000246	± 2.5	PASS
		VN	-20	3.22	0.001882	± 2.5	PASS
		VN	-10	2.96	0.001730	± 2.5	PASS
		VN	0	1.09	0.000637	± 2.5	PASS
		VN	10	-1.17	-0.000684	± 2.5	PASS
		VN	20	2.19	0.001280	± 2.5	PASS
		VN	30	1.47	0.000859	± 2.5	PASS
		VN	40	4.75	0.002777	± 2.5	PASS
	MCH	VN	-30	1.51	0.000872	± 2.5	PASS
		VN	-20	-0.1	-0.000058	± 2.5	PASS
		VN	-10	1.63	0.000941	± 2.5	PASS
		VN	0	0.61	0.000352	± 2.5	PASS
		VN	10	0.08	0.000046	± 2.5	PASS
		VN	20	-0.47	-0.000271	± 2.5	PASS
		VN	30	0.18	0.000104	± 2.5	PASS
		VN	40	0.41	0.000237	± 2.5	PASS

	HCH	VN	50	3.74	0.002159	± 2.5	PASS
		VN	-30	-1.94	-0.001106	± 2.5	PASS
		VN	-20	2.66	0.001516	± 2.5	PASS
		VN	-10	2.61	0.001488	± 2.5	PASS
		VN	0	-1.28	-0.000730	± 2.5	PASS
		VN	10	4.49	0.002559	± 2.5	PASS
		VN	20	4.88	0.002782	± 2.5	PASS
		VN	30	4.67	0.002662	± 2.5	PASS
		VN	40	3.69	0.002103	± 2.5	PASS
		VN	50	0.53	0.000302	± 2.5	PASS
16QAM	LCH	VN	-30	-1.48	-0.000865	± 2.5	PASS
		VN	-20	3.71	0.002169	± 2.5	PASS
		VN	-10	-1.22	-0.000713	± 2.5	PASS
		VN	0	4.33	0.002531	± 2.5	PASS
		VN	10	-0.02	-0.000012	± 2.5	PASS
		VN	20	4.38	0.002560	± 2.5	PASS
		VN	30	0.38	0.000222	± 2.5	PASS
		VN	40	-0.02	-0.000012	± 2.5	PASS
		VN	50	4.37	0.002555	± 2.5	PASS
	MCH	VN	-30	-1.86	-0.001060	± 2.5	PASS
		VN	-20	-0.56	-0.000319	± 2.5	PASS
		VN	-10	4.47	0.002548	± 2.5	PASS
		VN	0	-0.37	-0.000211	± 2.5	PASS
		VN	10	-0.6	-0.000342	± 2.5	PASS
		VN	20	2.74	0.001562	± 2.5	PASS
		VN	30	-1.32	-0.000752	± 2.5	PASS
		VN	40	2.9	0.001653	± 2.5	PASS
		VN	50	3.55	0.002024	± 2.5	PASS
	HCH	VN	-30	4.24	0.002417	± 2.5	PASS
		VN	-20	0.96	0.000547	± 2.5	PASS
		VN	-10	2.65	0.001511	± 2.5	PASS
		VN	0	-1.63	-0.000929	± 2.5	PASS
		VN	10	2.26	0.001288	± 2.5	PASS
		VN	20	-1.67	-0.000952	± 2.5	PASS
		VN	30	0.96	0.000547	± 2.5	PASS
		VN	40	-0.8	-0.000456	± 2.5	PASS
		VN	50	1.49	0.000849	± 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	-1.06	-0.000619	± 2.5	PASS
		VN	TN	3.96	0.002314	± 2.5	PASS
		VH	TN	-0.34	-0.000199	± 2.5	PASS
	MCH	VL	TN	1.17	0.000675	± 2.5	PASS
		VN	TN	-0.78	-0.000450	± 2.5	PASS

	HCH	VH	TN	-0.81	-0.000468	± 2.5	PASS	
		VL	TN	3.94	0.002247	± 2.5	PASS	
		VN	TN	4.88	0.002783	± 2.5	PASS	
		VH	TN	1.66	0.000947	± 2.5	PASS	
16QAM	LCH	VL	TN	2.58	0.001507	± 2.5	PASS	
		VN	TN	3.53	0.002063	± 2.5	PASS	
		VH	TN	2.03	0.001186	± 2.5	PASS	
	MCH	VL	TN	0.54	0.000312	± 2.5	PASS	
		VN	TN	2.98	0.001720	± 2.5	PASS	
		VH	TN	2.94	0.001697	± 2.5	PASS	
	HCH	VL	TN	-1.15	-0.000656	± 2.5	PASS	
		VN	TN	4.59	0.002618	± 2.5	PASS	
		VH	TN	3.4	0.001939	± 2.5	PASS	
	Temperature							
	Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
	QPSK	LCH	VN	-30	-1.11	-0.000649	± 2.5	PASS
VN			-20	2.6	0.001520	± 2.5	PASS	
VN			-10	3.41	0.001993	± 2.5	PASS	
VN			0	1.08	0.000631	± 2.5	PASS	
VN			10	3.85	0.002251	± 2.5	PASS	
VN			20	-0.33	-0.000193	± 2.5	PASS	
VN			30	-1.95	-0.001140	± 2.5	PASS	
VN			40	1.45	0.000848	± 2.5	PASS	
VN			50	2.6	0.001520	± 2.5	PASS	
MCH		VN	-30	1.26	0.000727	± 2.5	PASS	
		VN	-20	1.18	0.000681	± 2.5	PASS	
		VN	-10	3.81	0.002199	± 2.5	PASS	
		VN	0	3.23	0.001864	± 2.5	PASS	
		VN	10	-1.29	-0.000745	± 2.5	PASS	
		VN	20	0.14	0.000081	± 2.5	PASS	
		VN	30	-0.54	-0.000312	± 2.5	PASS	
		VN	40	0.91	0.000525	± 2.5	PASS	
		VN	50	-0.65	-0.000375	± 2.5	PASS	
HCH		VN	-30	0.95	0.000542	± 2.5	PASS	
		VN	-20	3.31	0.001887	± 2.5	PASS	
		VN	-10	4.71	0.002685	± 2.5	PASS	
		VN	0	0.63	0.000359	± 2.5	PASS	
		VN	10	0.58	0.000331	± 2.5	PASS	
		VN	20	-0.66	-0.000376	± 2.5	PASS	
		VN	30	4.98	0.002839	± 2.5	PASS	
		VN	40	3.85	0.002195	± 2.5	PASS	
		VN	50	-1.15	-0.000656	± 2.5	PASS	
16QAM	LCH	VN	-30	0.75	0.000438	± 2.5	PASS	
		VN	-20	-1.73	-0.001011	± 2.5	PASS	
		VN	-10	-1.94	-0.001134	± 2.5	PASS	
		VN	0	0.01	0.000006	± 2.5	PASS	
		VN	10	4.59	0.002683	± 2.5	PASS	
		VN	20	0.63	0.000368	± 2.5	PASS	
		VN	30	-0.68	-0.000397	± 2.5	PASS	

		VN	40	1.65	0.000965	± 2.5	PASS
		VN	50	-1.58	-0.000924	± 2.5	PASS
	MCH	VN	-30	0.02	0.000011	± 2.5	PASS
		VN	-20	-1.1	-0.000627	± 2.5	PASS
		VN	-10	3.03	0.001727	± 2.5	PASS
		VN	0	1.52	0.000866	± 2.5	PASS
		VN	10	-1.26	-0.000718	± 2.5	PASS
		VN	20	-0.84	-0.000479	± 2.5	PASS
		VN	30	4.22	0.002406	± 2.5	PASS
		VN	40	-1.84	-0.001049	± 2.5	PASS
		VN	50	1.78	0.001015	± 2.5	PASS
		HCH	VN	-30	-0.48	-0.000274	± 2.5
	VN		-20	3.01	0.001716	± 2.5	PASS
	VN		-10	-0.66	-0.000376	± 2.5	PASS
	VN		0	4.9	0.002793	± 2.5	PASS
	VN		10	1.66	0.000946	± 2.5	PASS
	VN		20	0.65	0.000371	± 2.5	PASS
	VN		30	-0.47	-0.000268	± 2.5	PASS
	VN		40	2.47	0.001408	± 2.5	PASS
	VN	50	0.05	0.000029	± 2.5	PASS	

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	2.86	0.001670	± 2.5	PASS
		VN	TN	4.81	0.002809	± 2.5	PASS
		VH	TN	-0.55	-0.000321	± 2.5	PASS
	MCH	VL	TN	4.38	0.002528	± 2.5	PASS
		VN	TN	3.9	0.002251	± 2.5	PASS
		VH	TN	1.3	0.000750	± 2.5	PASS
	HCH	VL	TN	1.13	0.000645	± 2.5	PASS
		VN	TN	0.91	0.000519	± 2.5	PASS
		VH	TN	3.23	0.001843	± 2.5	PASS
16QAM	LCH	VL	TN	2.3	0.001343	± 2.5	PASS
		VN	TN	-0.17	-0.000099	± 2.5	PASS
		VH	TN	3.57	0.002085	± 2.5	PASS
	MCH	VL	TN	0.95	0.000548	± 2.5	PASS
		VN	TN	2.78	0.001605	± 2.5	PASS
		VH	TN	-0.16	-0.000092	± 2.5	PASS
	HCH	VL	TN	0.23	0.000131	± 2.5	PASS
		VN	TN	2	0.001141	± 2.5	PASS
		VH	TN	-1.38	-0.000787	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.2	0.002453	± 2.5	PASS

		VN	-20	1.92	0.001121	± 2.5	PASS	
		VN	-10	4.33	0.002528	± 2.5	PASS	
		VN	0	3.18	0.001857	± 2.5	PASS	
		VN	10	1.93	0.001127	± 2.5	PASS	
		VN	20	-0.96	-0.000561	± 2.5	PASS	
		VN	30	-1.95	-0.001139	± 2.5	PASS	
		VN	40	4.8	0.002803	± 2.5	PASS	
		VN	50	1.6	0.000934	± 2.5	PASS	
	MCH	VN	-30	2.91	0.001680	± 2.5	PASS	
		VN	-20	-1.15	-0.000664	± 2.5	PASS	
		VN	-10	2.26	0.001304	± 2.5	PASS	
		VN	0	0.22	0.000127	± 2.5	PASS	
		VN	10	3.3	0.001905	± 2.5	PASS	
		VN	20	1.31	0.000756	± 2.5	PASS	
		VN	30	0.27	0.000156	± 2.5	PASS	
		VN	40	-1.12	-0.000646	± 2.5	PASS	
	HCH	VN	50	2.38	0.001374	± 2.5	PASS	
		VN	-30	4.42	0.002522	± 2.5	PASS	
		VN	-20	-1.75	-0.000917	± 2.5	PASS	
		VN	-10	-1.71	-0.000896	± 2.5	PASS	
		VN	0	0.98	0.000514	± 2.5	PASS	
		VN	10	3.79	0.001987	± 2.5	PASS	
		VN	20	-1.66	-0.000870	± 2.5	PASS	
		VN	30	-0.04	-0.000021	± 2.5	PASS	
	16QAM	LCH	VN	40	1.48	0.000776	± 2.5	PASS
			VN	50	-0.47	-0.000246	± 2.5	PASS
			VN	-30	4.83	0.002788	± 2.5	PASS
			VN	-20	0.72	0.000416	± 2.5	PASS
VN			-10	0.43	0.000248	± 2.5	PASS	
VN			0	-1.43	-0.000825	± 2.5	PASS	
VN			10	1.9	0.001097	± 2.5	PASS	
VN			20	2.97	0.001714	± 2.5	PASS	
MCH		VN	30	1.39	0.000802	± 2.5	PASS	
		VN	40	4.06	0.002343	± 2.5	PASS	
		VN	50	-0.82	-0.000473	± 2.5	PASS	
		VN	-30	1.64	0.000936	± 2.5	PASS	
		VN	-20	-0.16	-0.000091	± 2.5	PASS	
		VN	-10	4.45	0.002539	± 2.5	PASS	
		VN	0	-0.64	-0.000365	± 2.5	PASS	
		VN	10	-1.44	-0.000822	± 2.5	PASS	
HCH		VN	20	-1.06	-0.000605	± 2.5	PASS	
		VN	30	2.63	0.001501	± 2.5	PASS	
		VN	40	4.07	0.002322	± 2.5	PASS	
		VN	50	4.54	0.002591	± 2.5	PASS	
		VN	-30	0.74	0.000388	± 2.5	PASS	
		VN	-20	1.99	0.001043	± 2.5	PASS	
		VN	-10	4.85	0.002543	± 2.5	PASS	
		VN	0	0.7	0.000367	± 2.5	PASS	
			VN	10	3.88	0.002034	± 2.5	PASS
			VN	20	-1.36	-0.000713	± 2.5	PASS

		VN	30	-1.39	-0.000729	± 2.5	PASS
		VN	40	1.16	0.000608	± 2.5	PASS
		VN	50	1.44	0.000755	± 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	0.4	0.000233	± 2.5	PASS
		VN	TN	1.25	0.000729	± 2.5	PASS
		VH	TN	4.06	0.002367	± 2.5	PASS
	MCH	VL	TN	-1.1	-0.000635	± 2.5	PASS
		VN	TN	2.04	0.001177	± 2.5	PASS
		VH	TN	-1.21	-0.000698	± 2.5	PASS
	HCH	VL	TN	-1.4	-0.000800	± 2.5	PASS
		VN	TN	-1.16	-0.000663	± 2.5	PASS
		VH	TN	4.03	0.002303	± 2.5	PASS
16QAM	LCH	VL	TN	0.45	0.000262	± 2.5	PASS
		VN	TN	4.62	0.002694	± 2.5	PASS
		VH	TN	4.25	0.002478	± 2.5	PASS
	MCH	VL	TN	3.61	0.002084	± 2.5	PASS
		VN	TN	4.54	0.002620	± 2.5	PASS
		VH	TN	3.26	0.001882	± 2.5	PASS
	HCH	VL	TN	2.64	0.001509	± 2.5	PASS
		VN	TN	3.23	0.001846	± 2.5	PASS
		VH	TN	-1.62	-0.000926	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	-1.14	-0.000665	± 2.5	PASS
		VN	-20	1.54	0.000898	± 2.5	PASS
		VN	-10	0.63	0.000367	± 2.5	PASS
		VN	0	2.6	0.001516	± 2.5	PASS
		VN	10	2.94	0.001714	± 2.5	PASS
		VN	20	-0.62	-0.000362	± 2.5	PASS
		VN	30	3.54	0.002064	± 2.5	PASS
		VN	40	-1.06	-0.000618	± 2.5	PASS
		VN	50	-1.77	-0.001032	± 2.5	PASS
	MCH	VN	-30	3.36	0.001939	± 2.5	PASS
		VN	-20	1.56	0.000900	± 2.5	PASS
		VN	-10	3.05	0.001760	± 2.5	PASS
		VN	0	-0.13	-0.000075	± 2.5	PASS
		VN	10	2.84	0.001639	± 2.5	PASS
		VN	20	0.85	0.000491	± 2.5	PASS
		VN	30	0.5	0.000289	± 2.5	PASS
		VN	40	3.31	0.001911	± 2.5	PASS
		VN	50	0.21	0.000121	± 2.5	PASS

	HCH	VN	-30	0.96	0.000549	± 2.5	PASS
		VN	-20	0.92	0.000526	± 2.5	PASS
		VN	-10	0.16	0.000091	± 2.5	PASS
		VN	0	-1.15	-0.000657	± 2.5	PASS
		VN	10	3.53	0.002017	± 2.5	PASS
		VN	20	0.25	0.000143	± 2.5	PASS
		VN	30	1.66	0.000949	± 2.5	PASS
		VN	40	2.37	0.001354	± 2.5	PASS
		VN	50	-1.13	-0.000646	± 2.5	PASS
QPSK	LCH	VN	-30	-0.91	-0.000525	± 2.5	PASS
		VN	-20	-1.22	-0.000704	± 2.5	PASS
		VN	-10	2.33	0.001345	± 2.5	PASS
		VN	0	1.51	0.000872	± 2.5	PASS
		VN	10	0.42	0.000242	± 2.5	PASS
		VN	20	-1.42	-0.000820	± 2.5	PASS
		VN	30	1.42	0.000820	± 2.5	PASS
		VN	40	0.32	0.000185	± 2.5	PASS
		VN	50	1.38	0.000797	± 2.5	PASS
	MCH	VN	-30	-1.19	-0.000680	± 2.5	PASS
		VN	-20	2.56	0.001463	± 2.5	PASS
		VN	-10	3.48	0.001989	± 2.5	PASS
		VN	0	2.16	0.001234	± 2.5	PASS
		VN	10	3.13	0.001789	± 2.5	PASS
		VN	20	2.63	0.001503	± 2.5	PASS
		VN	30	3.63	0.002074	± 2.5	PASS
		VN	40	1.86	0.001063	± 2.5	PASS
		VN	50	0.47	0.000269	± 2.5	PASS
	HCH	VN	-30	0.46	0.000263	± 2.5	PASS
		VN	-20	1.86	0.001063	± 2.5	PASS
		VN	-10	-0.44	-0.000251	± 2.5	PASS
		VN	0	-0.72	-0.000411	± 2.5	PASS
		VN	10	-1.88	-0.001074	± 2.5	PASS
		VN	20	-0.79	-0.000451	± 2.5	PASS
VN		30	-1.38	-0.000789	± 2.5	PASS	
VN		40	4.83	0.002760	± 2.5	PASS	
VN		50	-1.47	-0.000840	± 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	-1.61	-0.000937	± 2.5	PASS
		VN	TN	4.64	0.002702	± 2.5	PASS
		VH	TN	0.01	0.000006	± 2.5	PASS
	MCH	VL	TN	-1.94	-0.001120	± 2.5	PASS
		VN	TN	-0.9	-0.000519	± 2.5	PASS
		VH	TN	-1.42	-0.000820	± 2.5	PASS

16QAM	HCH	VL	TN	-1.17	-0.000670	± 2.5	PASS
		VN	TN	3.16	0.001808	± 2.5	PASS
		VH	TN	2.6	0.001488	± 2.5	PASS
	LCH	VL	TN	0.15	0.000087	± 2.5	PASS
		VN	TN	0.81	0.000472	± 2.5	PASS
		VH	TN	-0.06	-0.000035	± 2.5	PASS
	MCH	VL	TN	-0.77	-0.000444	± 2.5	PASS
		VN	TN	1.66	0.000958	± 2.5	PASS
		VH	TN	4.7	0.002713	± 2.5	PASS
HCH	VL	TN	2.05	0.001173	± 2.5	PASS	
	VN	TN	1.81	0.001036	± 2.5	PASS	
	VH	TN	4.98	0.002846	± 2.5	PASS	
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.1	0.001223	± 2.5	PASS
		VN	-20	0.98	0.000571	± 2.5	PASS
		VN	-10	-1.84	-0.001071	± 2.5	PASS
		VN	0	0.08	0.000047	± 2.5	PASS
		VN	10	3.39	0.001974	± 2.5	PASS
		VN	20	-0.7	-0.000408	± 2.5	PASS
		VN	30	1.05	0.000611	± 2.5	PASS
		VN	40	-1.26	-0.000734	± 2.5	PASS
		VN	50	0.42	0.000245	± 2.5	PASS
	MCH	VN	-30	1.3	0.000750	± 2.5	PASS
		VN	-20	0.09	0.000052	± 2.5	PASS
		VN	-10	-0.57	-0.000329	± 2.5	PASS
		VN	0	2.62	0.001512	± 2.5	PASS
		VN	10	4.28	0.002470	± 2.5	PASS
		VN	20	-1.97	-0.001137	± 2.5	PASS
		VN	30	4.33	0.002499	± 2.5	PASS
		VN	40	-0.23	-0.000133	± 2.5	PASS
		VN	50	0.8	0.000462	± 2.5	PASS
	HCH	VN	-30	-1.73	-0.000990	± 2.5	PASS
		VN	-20	1.7	0.000973	± 2.5	PASS
		VN	-10	3.69	0.002112	± 2.5	PASS
		VN	0	4.41	0.002524	± 2.5	PASS
		VN	10	-1.08	-0.000618	± 2.5	PASS
		VN	20	3.93	0.002249	± 2.5	PASS
		VN	30	0.01	0.000006	± 2.5	PASS
		VN	40	3.35	0.001917	± 2.5	PASS
		VN	50	4.03	0.002306	± 2.5	PASS
16QAM	LCH	VN	-30	-0.66	-0.000381	± 2.5	PASS
		VN	-20	4.15	0.002395	± 2.5	PASS
		VN	-10	3.55	0.002049	± 2.5	PASS
		VN	0	4.22	0.002436	± 2.5	PASS
		VN	10	0.39	0.000225	± 2.5	PASS
		VN	20	-1.67	-0.000964	± 2.5	PASS
		VN	30	3.03	0.001749	± 2.5	PASS
		VN	40	2.36	0.001362	± 2.5	PASS

	MCH	VN	50	0.24	0.000139	± 2.5	PASS
		VN	-30	-0.83	-0.000475	± 2.5	PASS
		VN	-20	1.12	0.000641	± 2.5	PASS
		VN	-10	-0.99	-0.000567	± 2.5	PASS
		VN	0	3.09	0.001768	± 2.5	PASS
		VN	10	1.25	0.000715	± 2.5	PASS
		VN	20	2.28	0.001305	± 2.5	PASS
		VN	30	-0.37	-0.000212	± 2.5	PASS
		VN	40	3.4	0.001946	± 2.5	PASS
	VN	50	3.93	0.002249	± 2.5	PASS	
	HCH	VN	-30	3.9	0.002232	± 2.5	PASS
		VN	-20	2.27	0.001299	± 2.5	PASS
		VN	-10	-0.33	-0.000189	± 2.5	PASS
		VN	0	0.75	0.000429	± 2.5	PASS
		VN	10	2.68	0.001534	± 2.5	PASS
		VN	20	3.91	0.002237	± 2.5	PASS
		VN	30	0.25	0.000143	± 2.5	PASS
		VN	40	3.3	0.001888	± 2.5	PASS
VN		50	-0.85	-0.000486	± 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	2.28	0.001326	± 2.5	PASS
		VN	TN	-0.51	-0.000297	± 2.5	PASS
		VH	TN	3.33	0.001936	± 2.5	PASS
	MCH	VL	TN	0.99	0.000571	± 2.5	PASS
		VN	TN	2.38	0.001374	± 2.5	PASS
		VH	TN	-1.85	-0.001068	± 2.5	PASS
	HCH	VL	TN	-1.13	-0.000648	± 2.5	PASS
		VN	TN	-0.05	-0.000029	± 2.5	PASS
		VH	TN	2.5	0.001433	± 2.5	PASS
16QAM	LCH	VL	TN	-1.58	-0.000919	± 2.5	PASS
		VN	TN	3.24	0.001884	± 2.5	PASS
		VH	TN	0.12	0.000070	± 2.5	PASS
	MCH	VL	TN	-0.36	-0.000208	± 2.5	PASS
		VN	TN	-0.09	-0.000052	± 2.5	PASS
		VH	TN	-0.32	-0.000185	± 2.5	PASS
	HCH	VL	TN	2.29	0.001312	± 2.5	PASS
		VN	TN	0.53	0.000304	± 2.5	PASS
		VH	TN	-1.18	-0.000676	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.81	-0.001052	± 2.5	PASS
		VN	-20	1.63	0.000948	± 2.5	PASS

		VN	-10	-1.82	-0.001058	± 2.5	PASS	
		VN	0	-0.68	-0.000395	± 2.5	PASS	
		VN	10	0.57	0.000331	± 2.5	PASS	
		VN	20	-0.59	-0.000343	± 2.5	PASS	
		VN	30	4.5	0.002616	± 2.5	PASS	
		VN	40	1.13	0.000657	± 2.5	PASS	
		VN	50	0.97	0.000564	± 2.5	PASS	
	MCH	VN	-30	0.97	0.000560	± 2.5	PASS	
		VN	-20	3.81	0.002199	± 2.5	PASS	
		VN	-10	3.31	0.001911	± 2.5	PASS	
		VN	0	2.42	0.001397	± 2.5	PASS	
		VN	10	4.72	0.002724	± 2.5	PASS	
		VN	20	-1.7	-0.000981	± 2.5	PASS	
		VN	30	0.57	0.000329	± 2.5	PASS	
	HCH	VN	40	-0.59	-0.000341	± 2.5	PASS	
		VN	50	-1.15	-0.000664	± 2.5	PASS	
		VN	-30	2.87	0.001645	± 2.5	PASS	
		VN	-20	1.41	0.000808	± 2.5	PASS	
		VN	-10	4.87	0.002791	± 2.5	PASS	
		VN	0	1.94	0.001112	± 2.5	PASS	
		VN	10	-1.52	-0.000871	± 2.5	PASS	
	16QAM	LCH	VN	20	-0.29	-0.000166	± 2.5	PASS
			VN	30	2.08	0.001192	± 2.5	PASS
			VN	40	-0.36	-0.000206	± 2.5	PASS
			VN	50	-0.83	-0.000476	± 2.5	PASS
			VN	-30	4.96	0.002863	± 2.5	PASS
			VN	-20	1.16	0.000670	± 2.5	PASS
			VN	-10	1.51	0.000872	± 2.5	PASS
MCH	VN	0	2	0.001154	± 2.5	PASS		
	VN	10	1.31	0.000756	± 2.5	PASS		
	VN	20	3.1	0.001789	± 2.5	PASS		
	VN	30	2.15	0.001241	± 2.5	PASS		
	VN	40	-1.52	-0.000877	± 2.5	PASS		
	VN	50	2.79	0.001610	± 2.5	PASS		
	VN	-30	-1.24	-0.000711	± 2.5	PASS		
HCH	VN	-20	3.03	0.001736	± 2.5	PASS		
	VN	-10	-1.12	-0.000642	± 2.5	PASS		
	VN	0	3.66	0.002097	± 2.5	PASS		
	VN	10	3.51	0.002011	± 2.5	PASS		
	VN	20	4.53	0.002596	± 2.5	PASS		
	VN	30	0.14	0.000080	± 2.5	PASS		
	VN	40	-0.64	-0.000367	± 2.5	PASS		
		VN	50	3.27	0.001874	± 2.5	PASS	
		VN	-30	4.85	0.002779	± 2.5	PASS	
		VN	-20	3.04	0.001742	± 2.5	PASS	
		VN	-10	0.26	0.000149	± 2.5	PASS	
		VN	0	-1.11	-0.000636	± 2.5	PASS	
		VN	10	-1.78	-0.001020	± 2.5	PASS	
		VN	20	2.14	0.001226	± 2.5	PASS	
VN	30	2.79	0.001599	± 2.5	PASS			

		VN	40	1.45	0.000831	± 2.5	PASS
		VN	50	1.88	0.001077	± 2.5	PASS