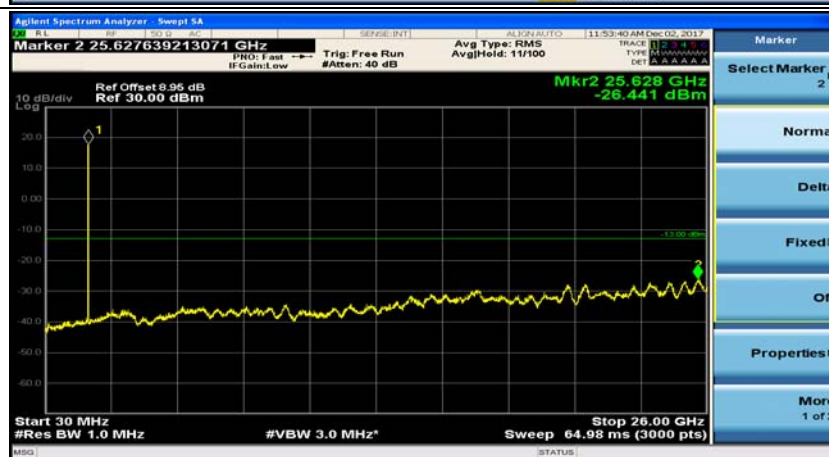
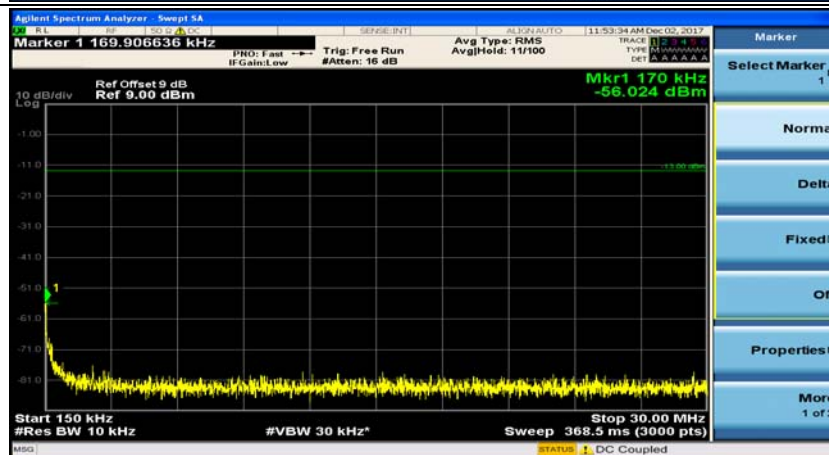
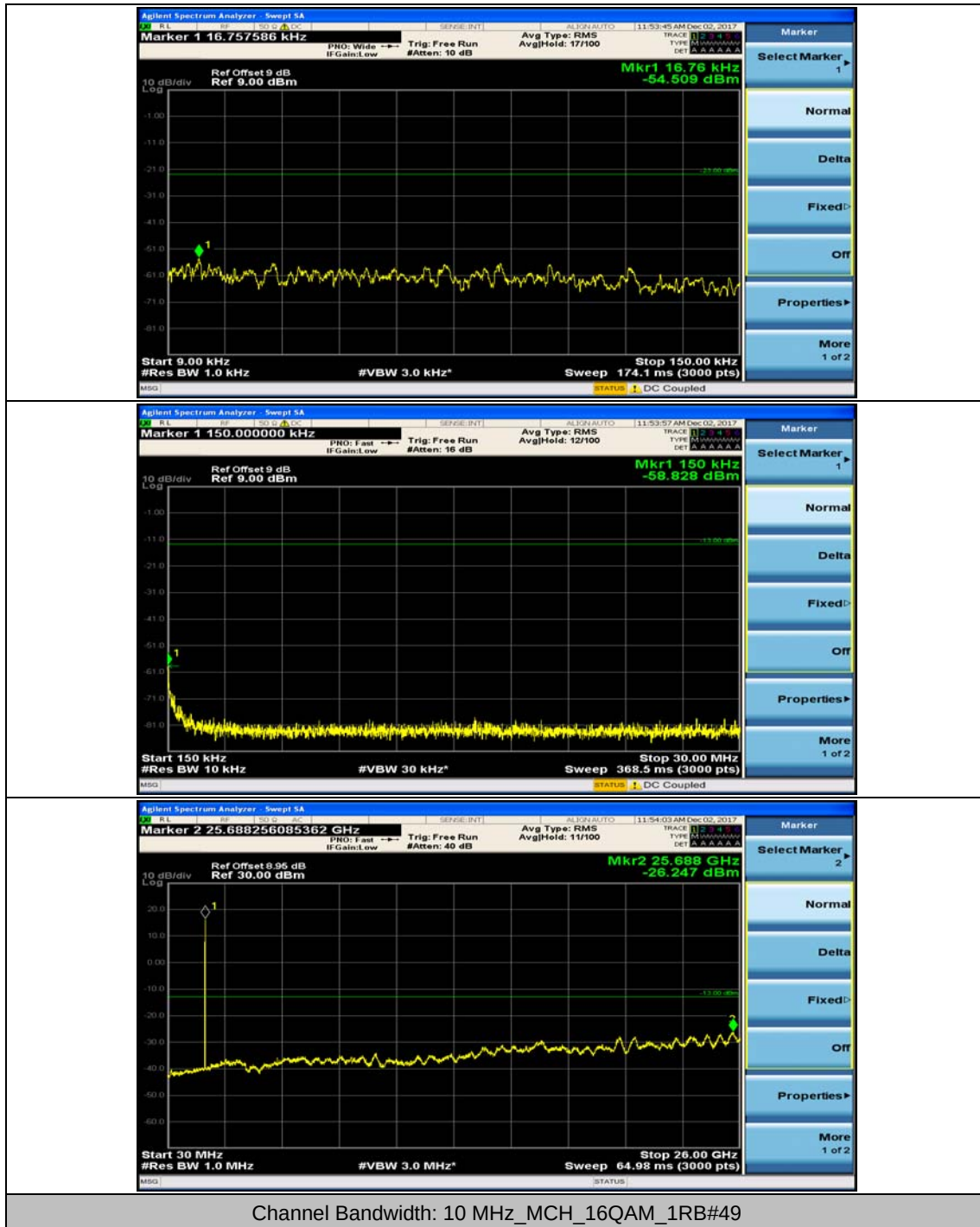
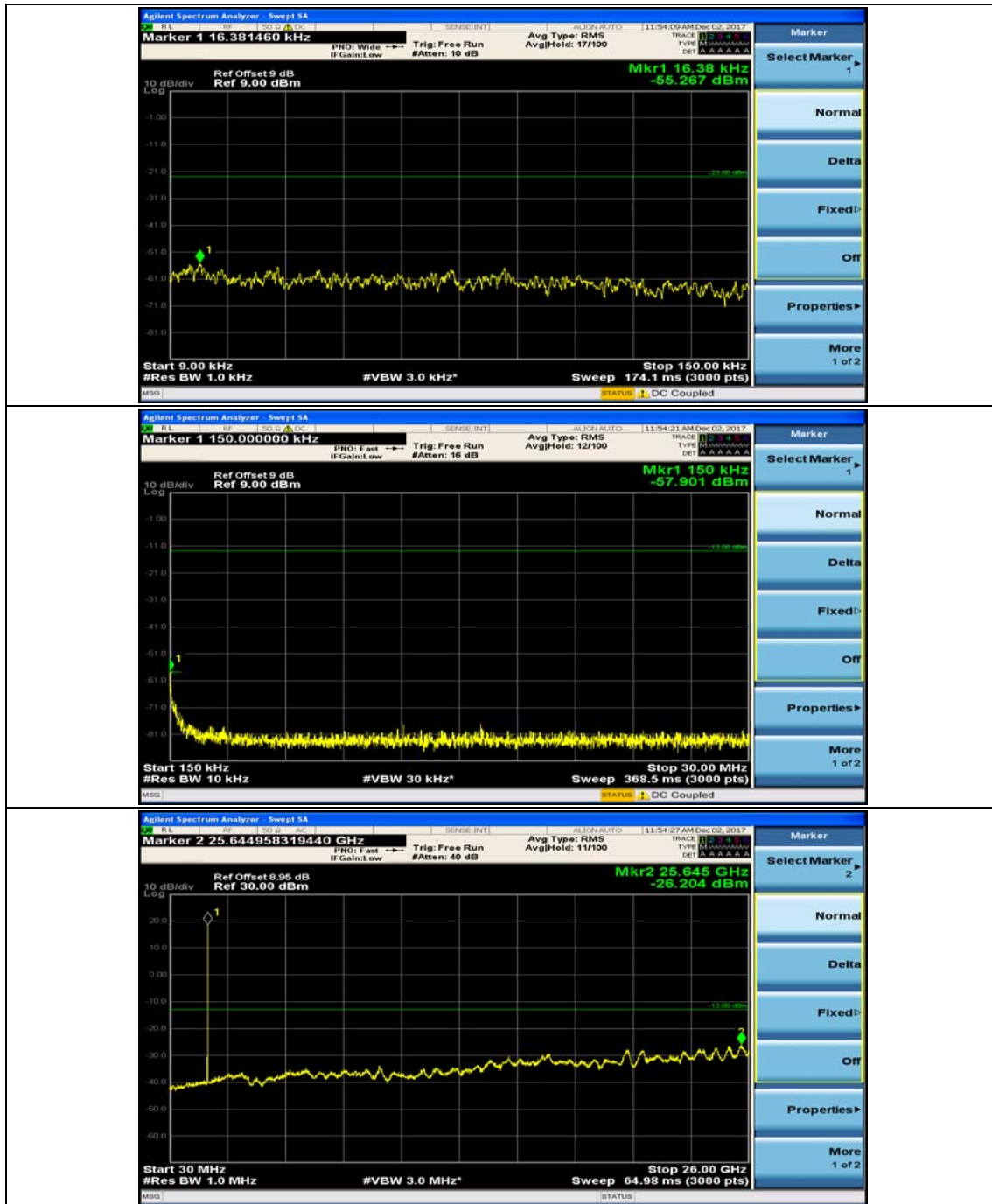


Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0

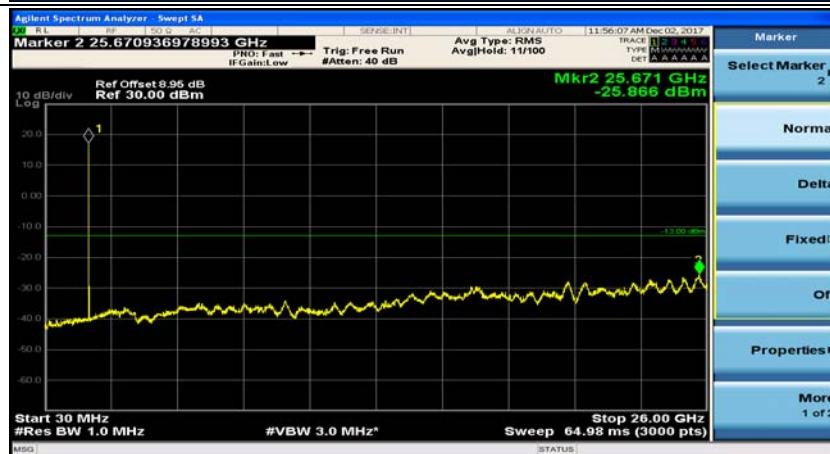
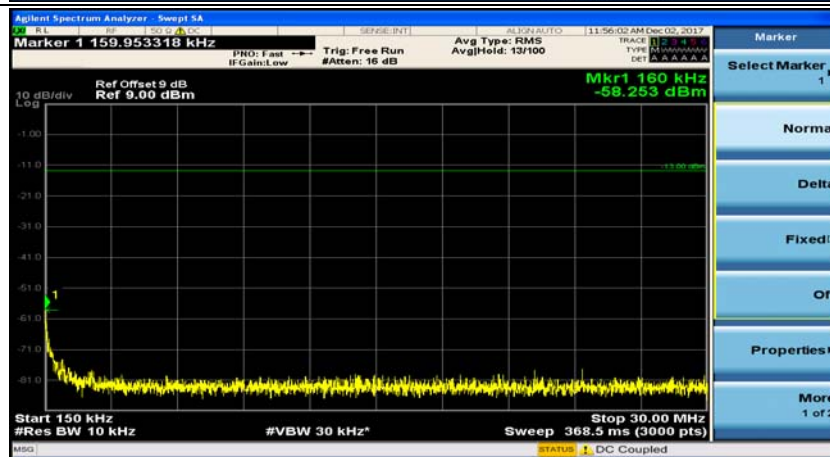
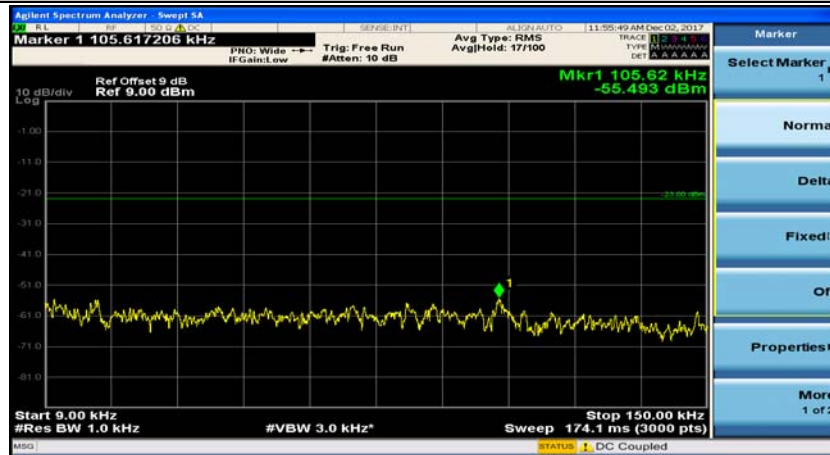


Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#24

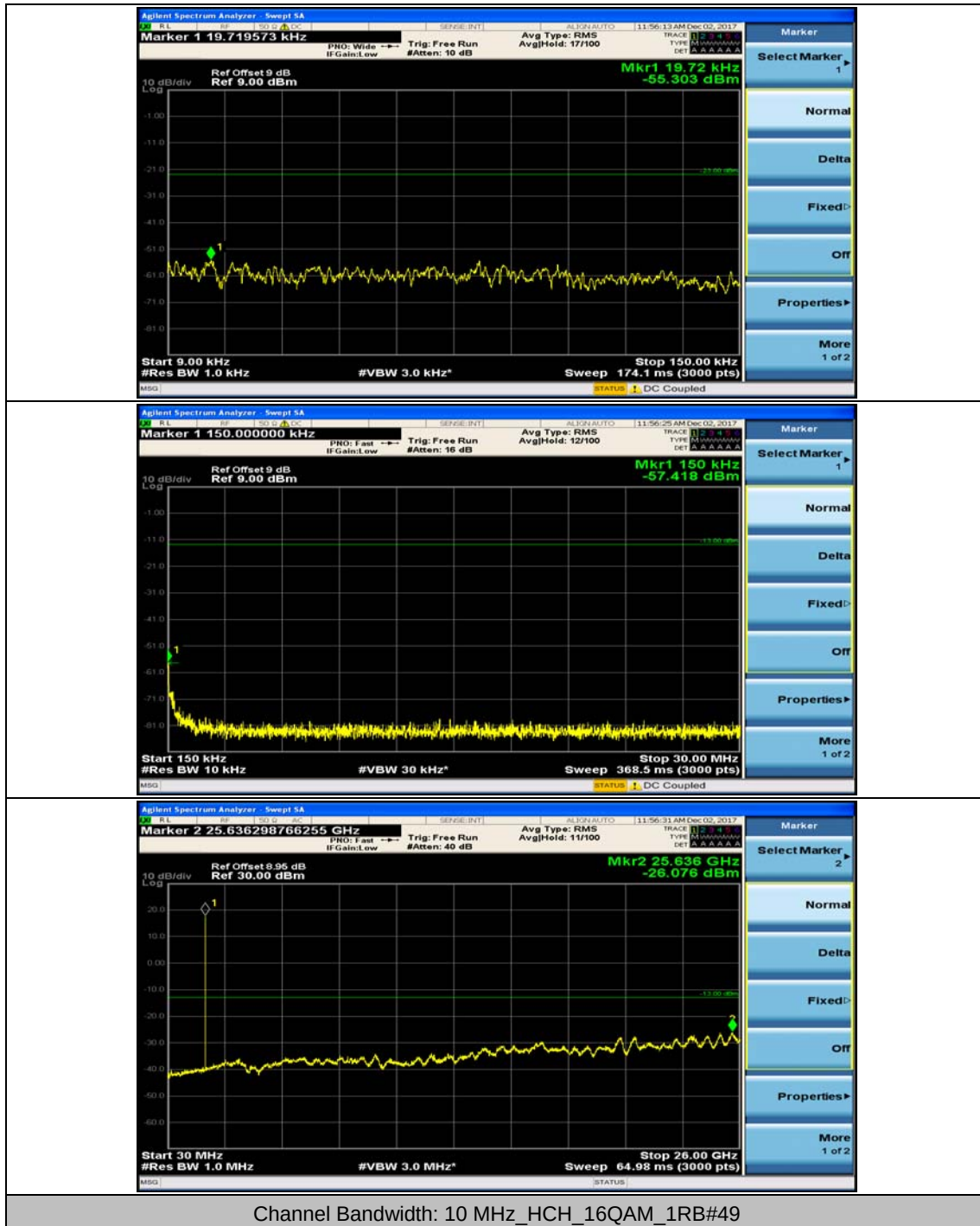


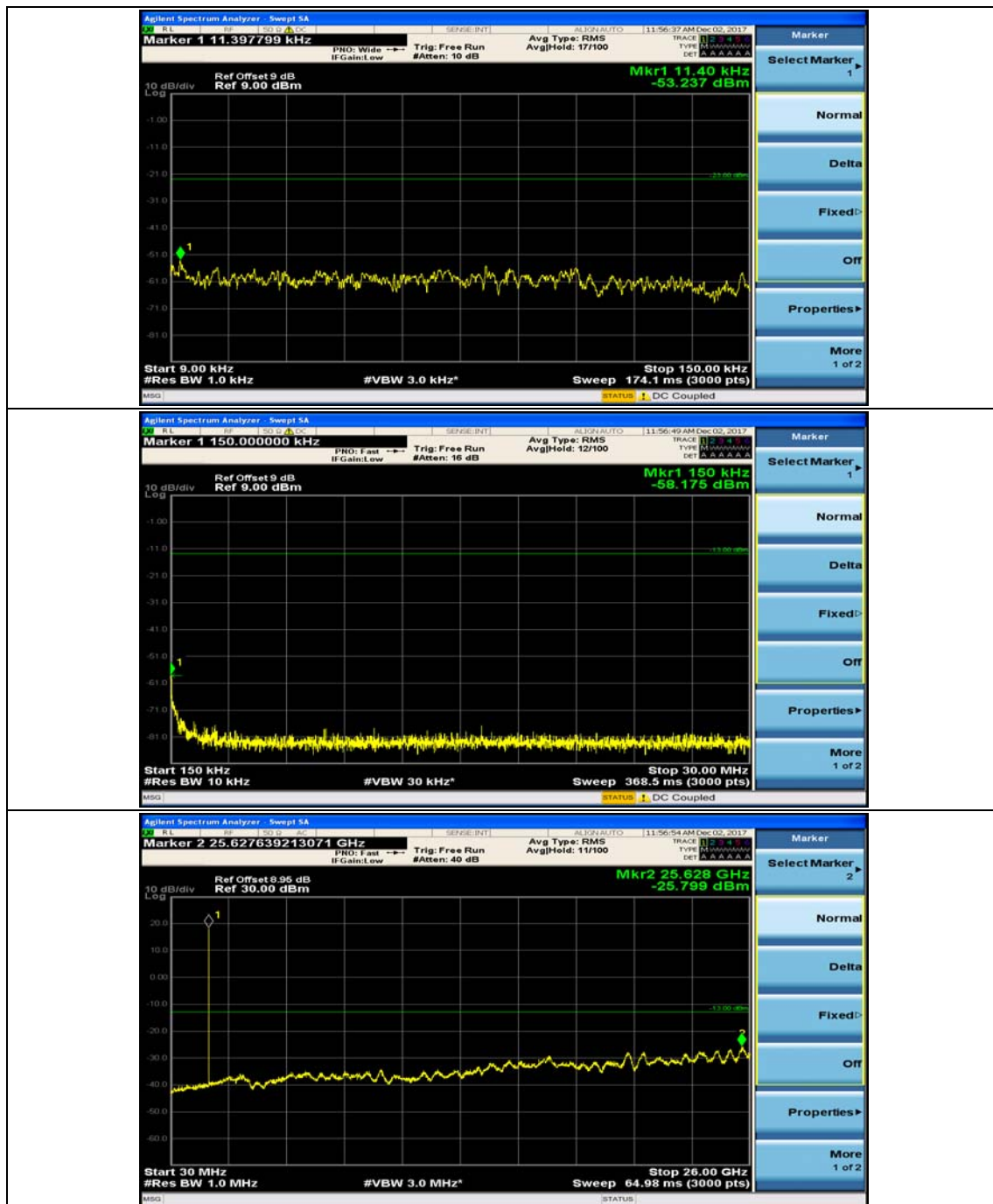


Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0

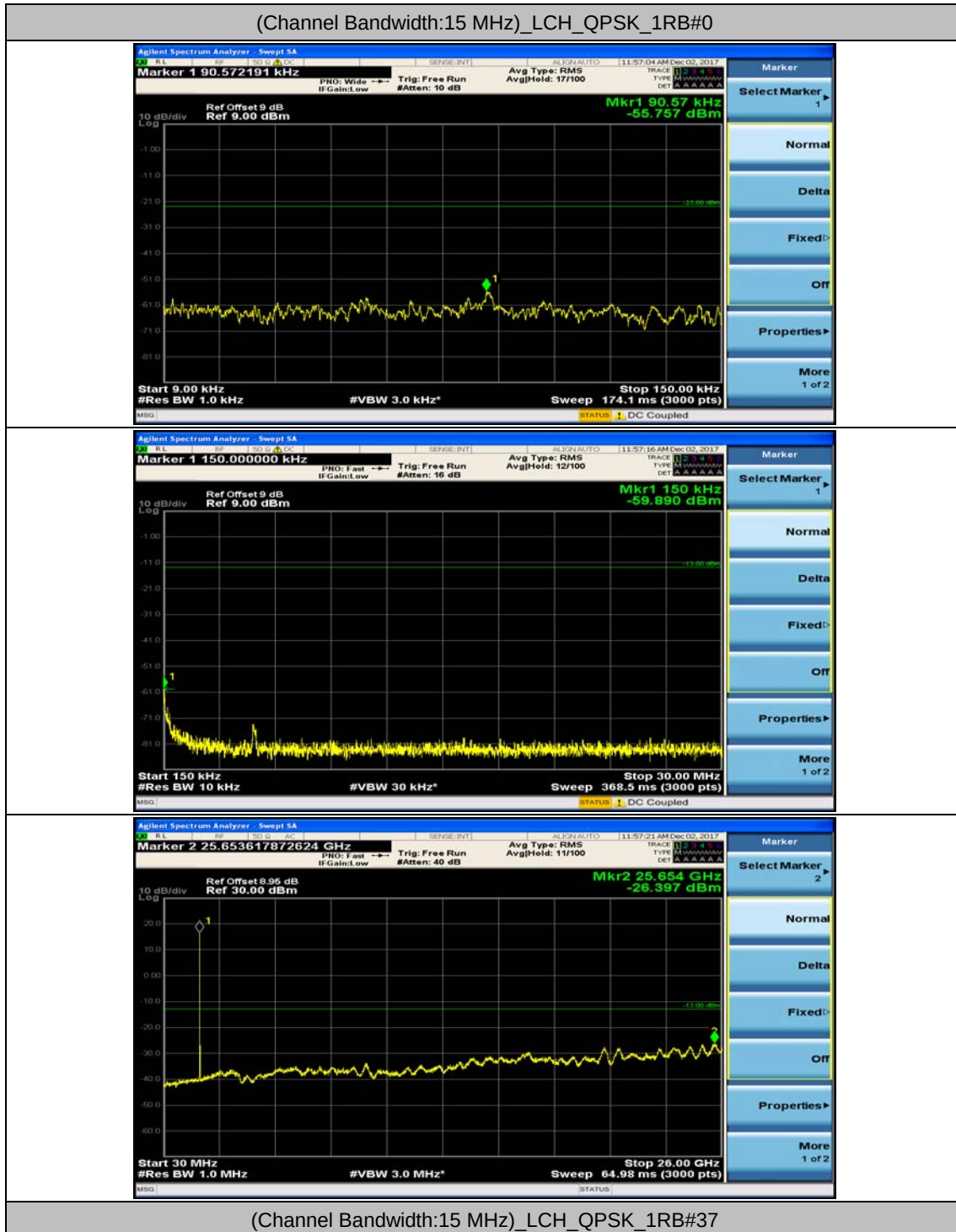


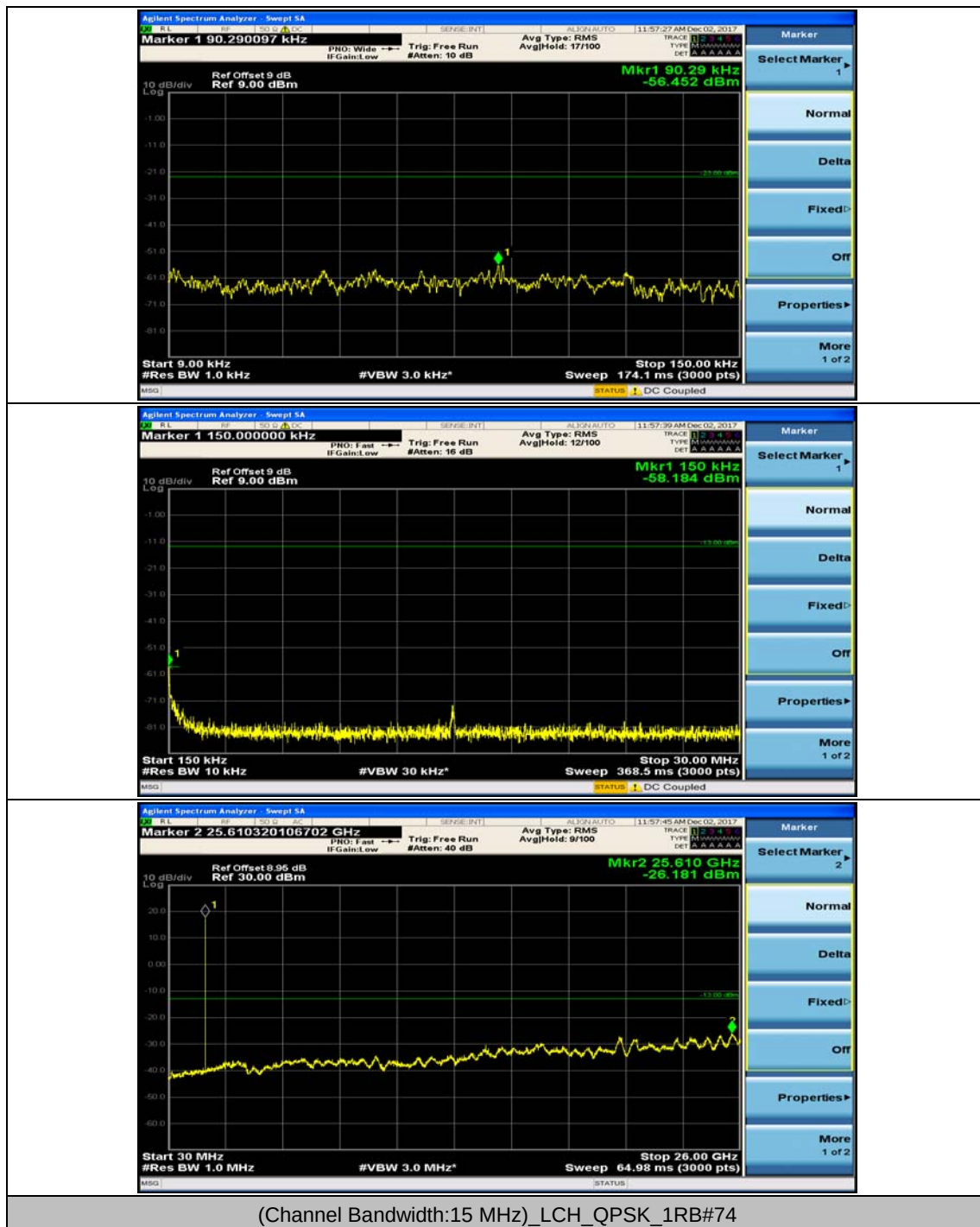
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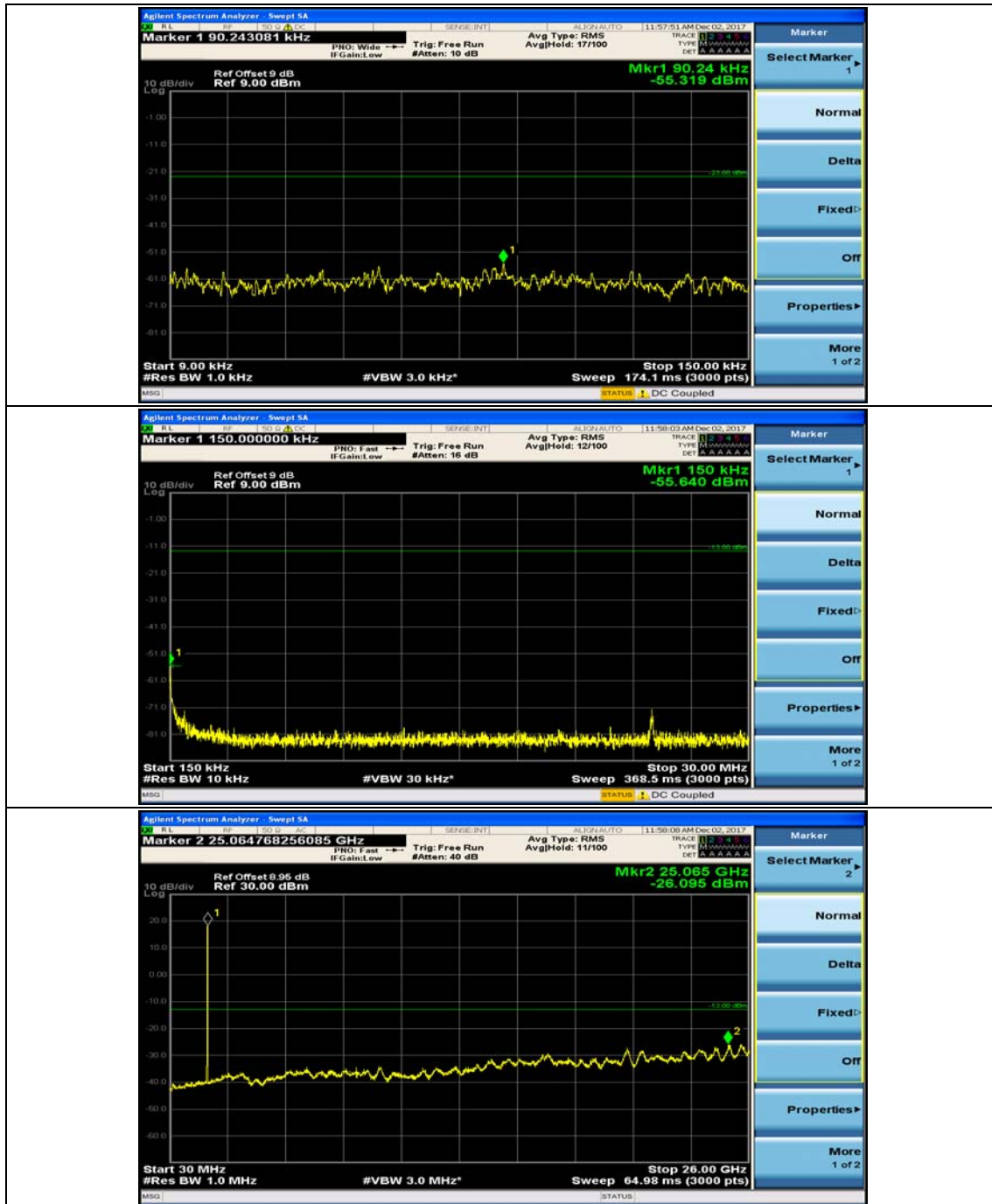




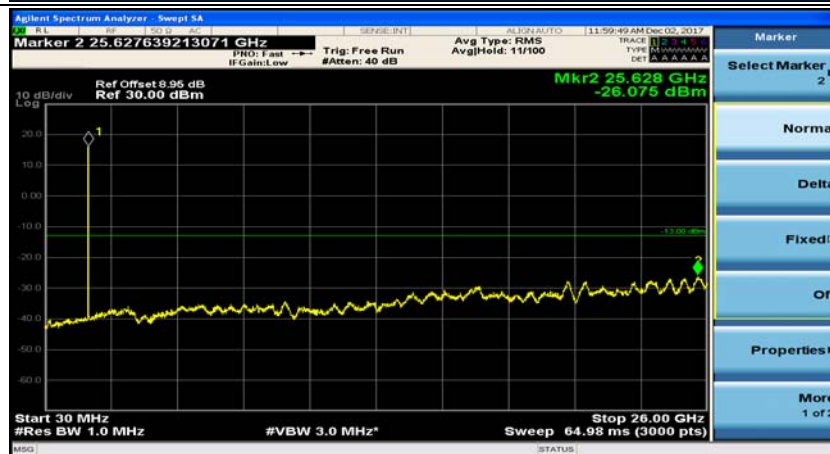
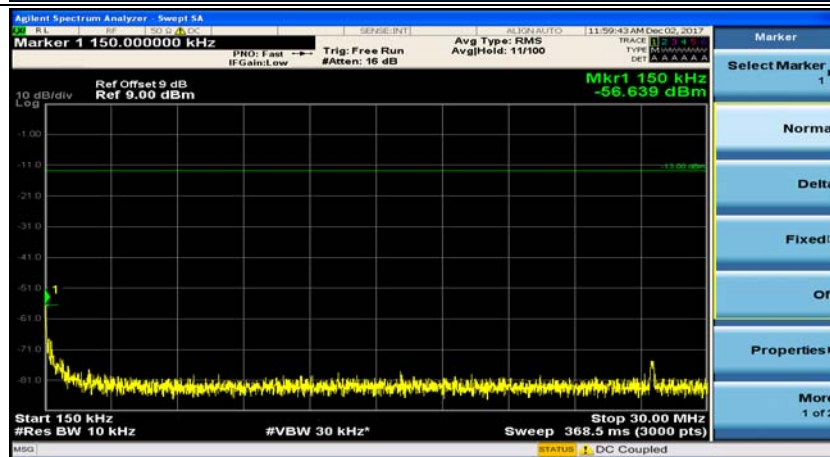
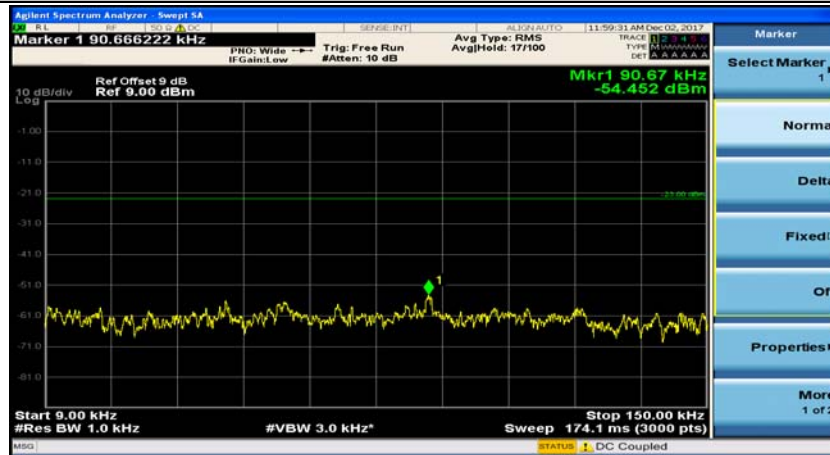
Channel Bandwidth: 15 MHz



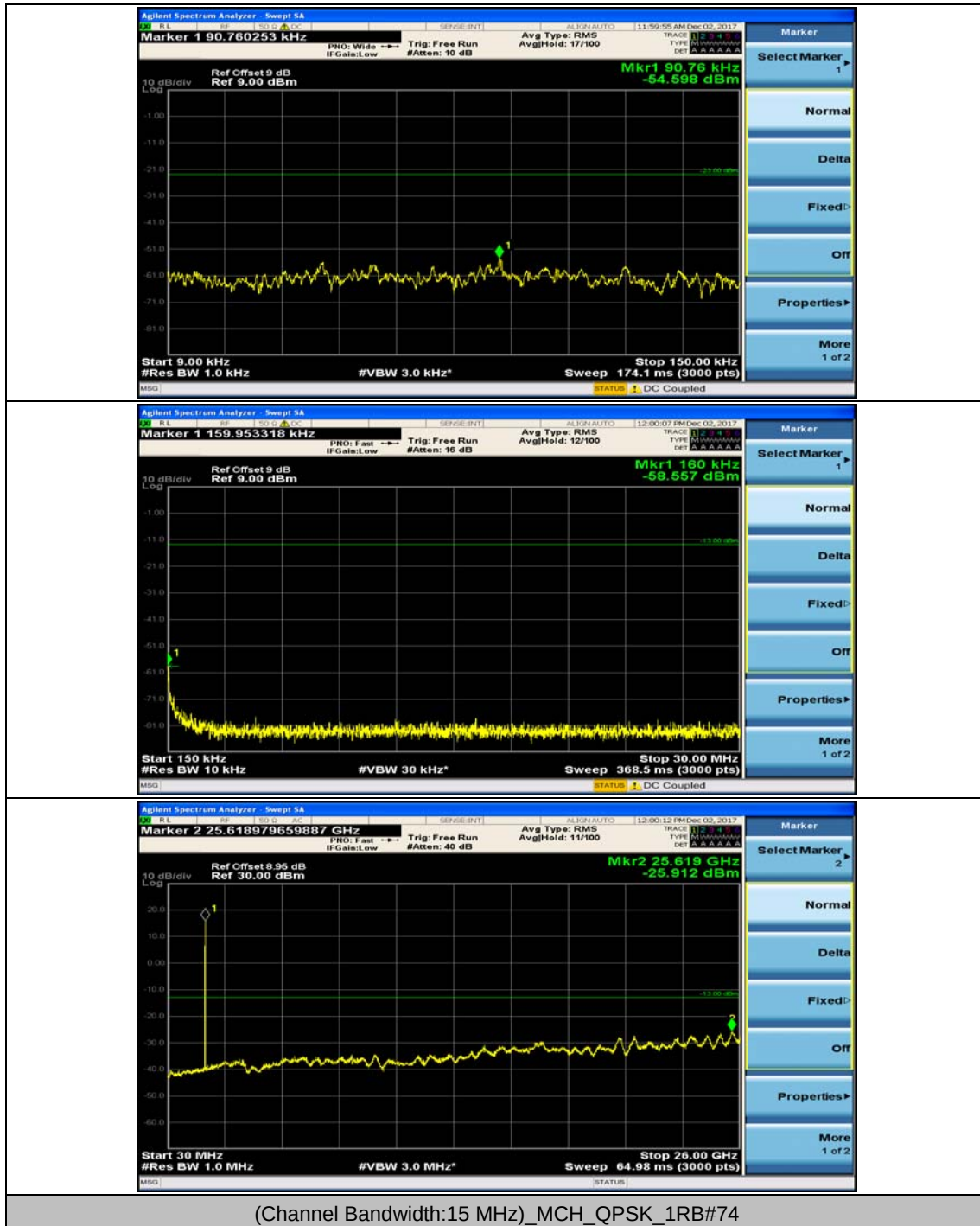


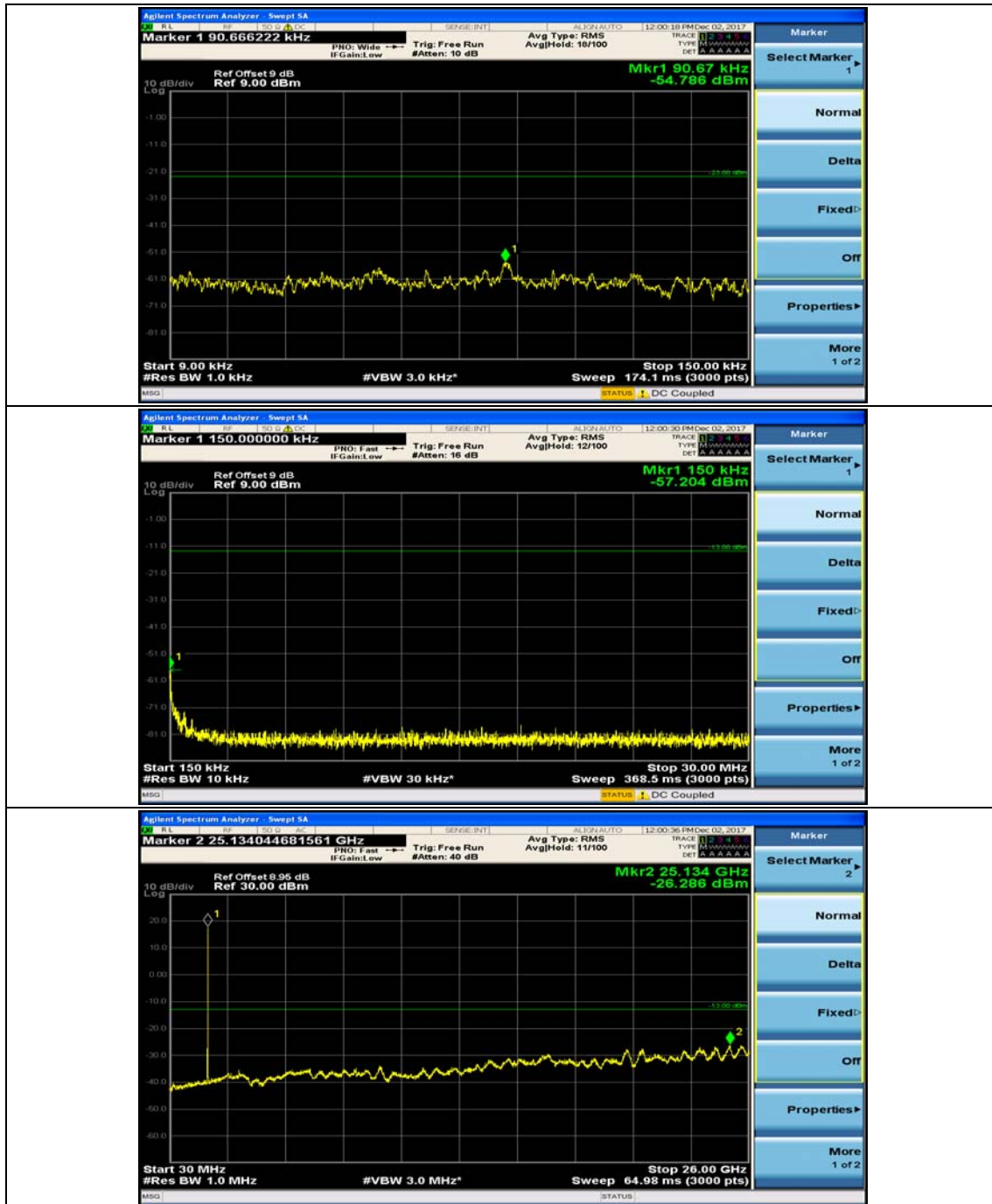


(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#0

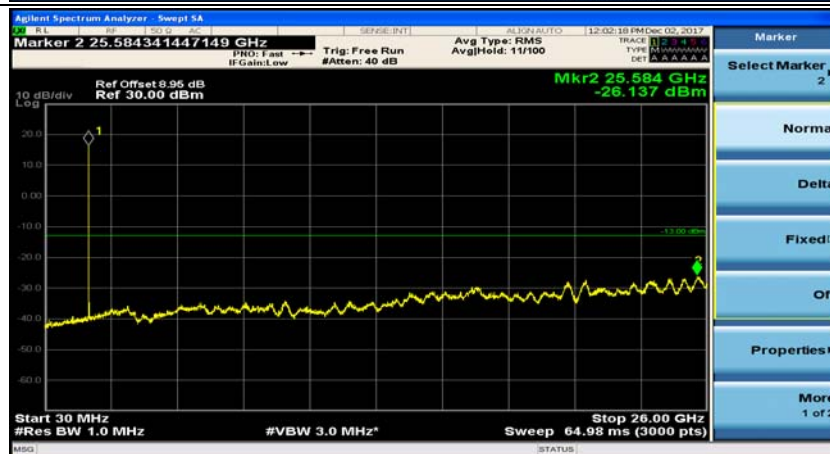
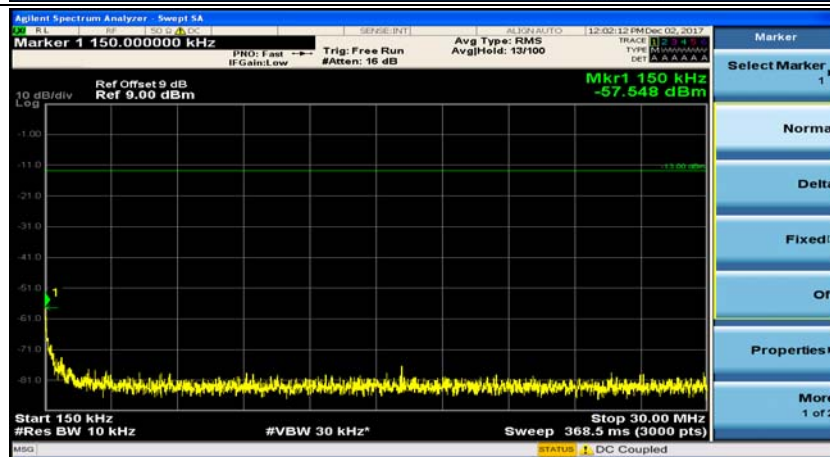
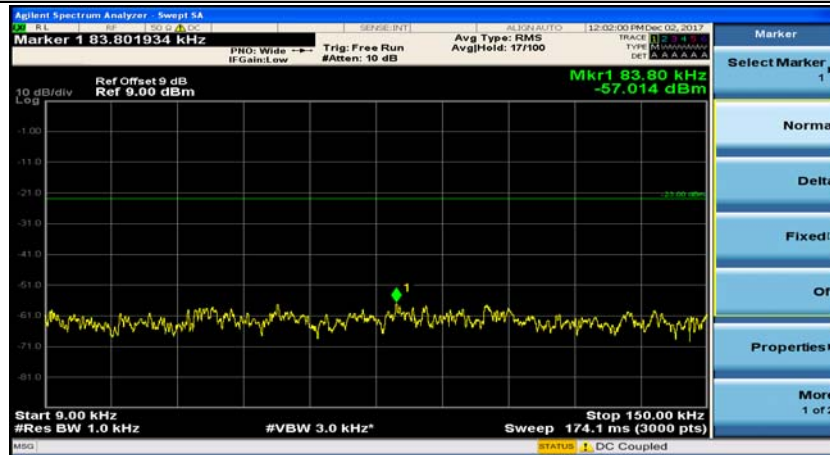


(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#37

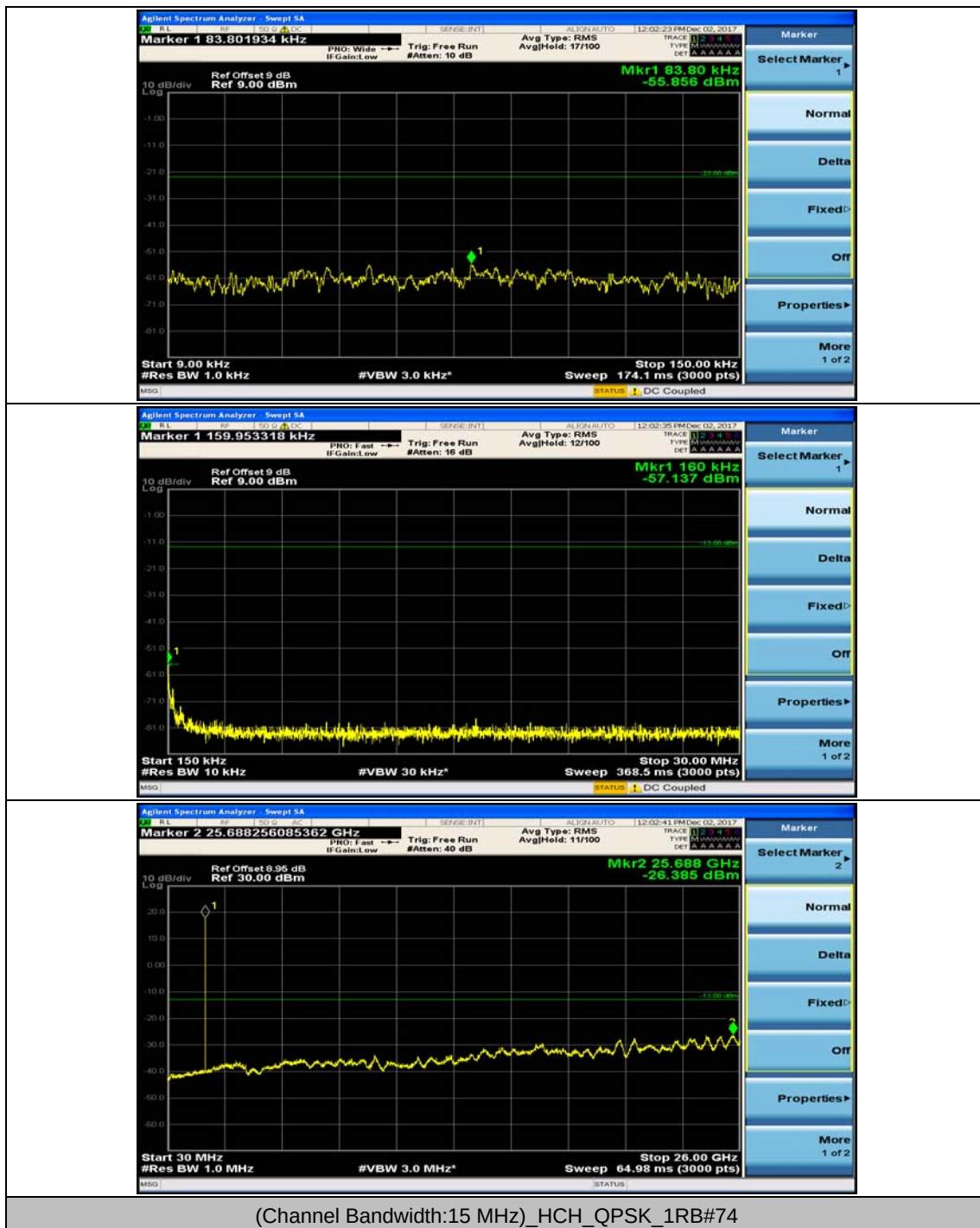


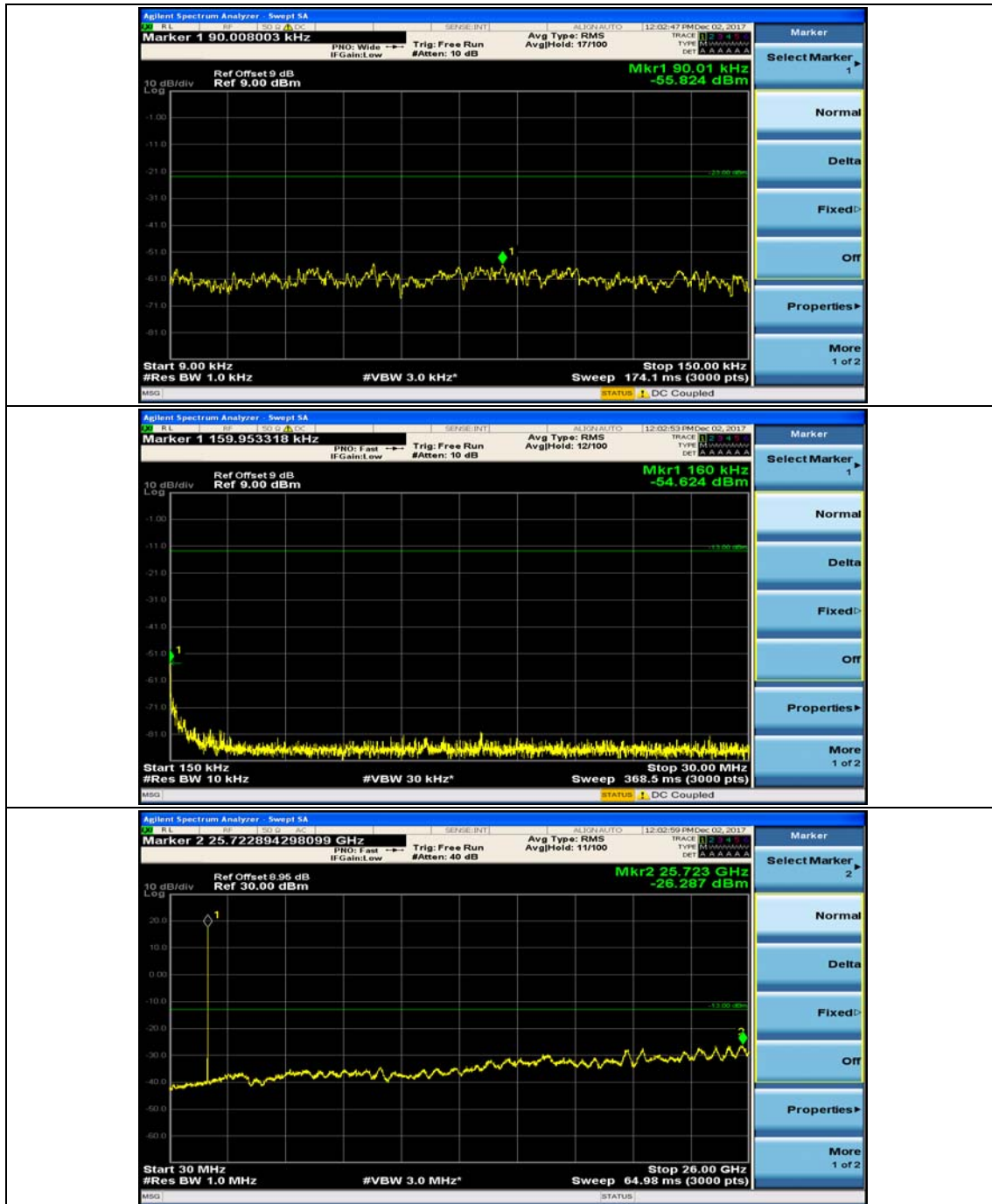


(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#0

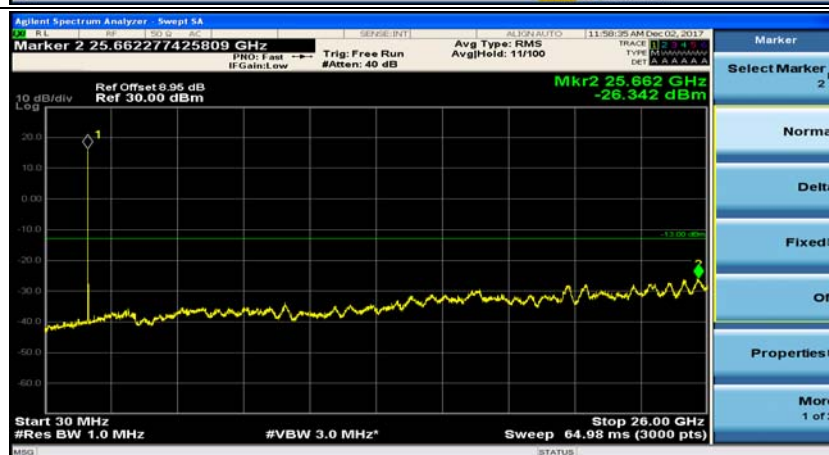
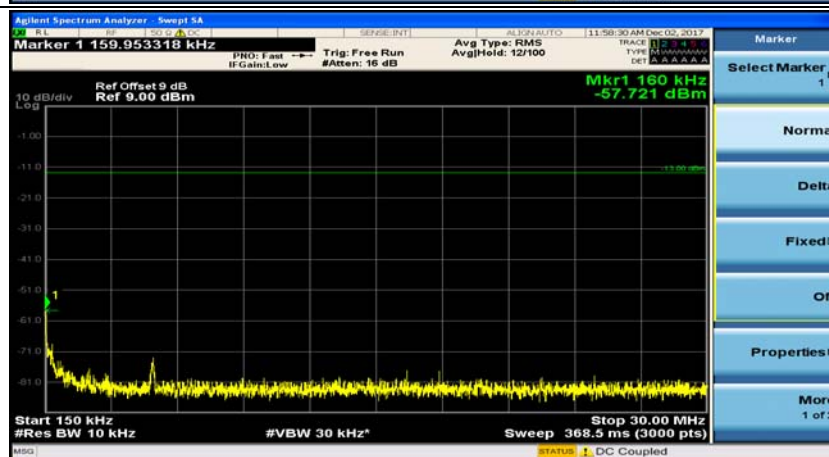
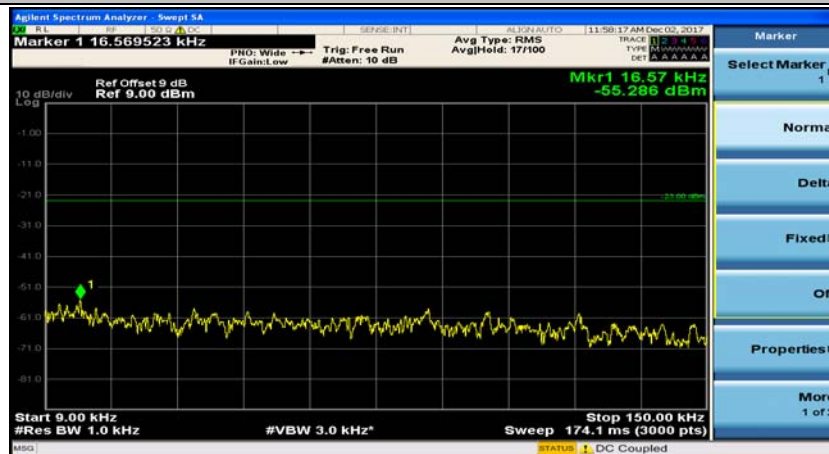


(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#37

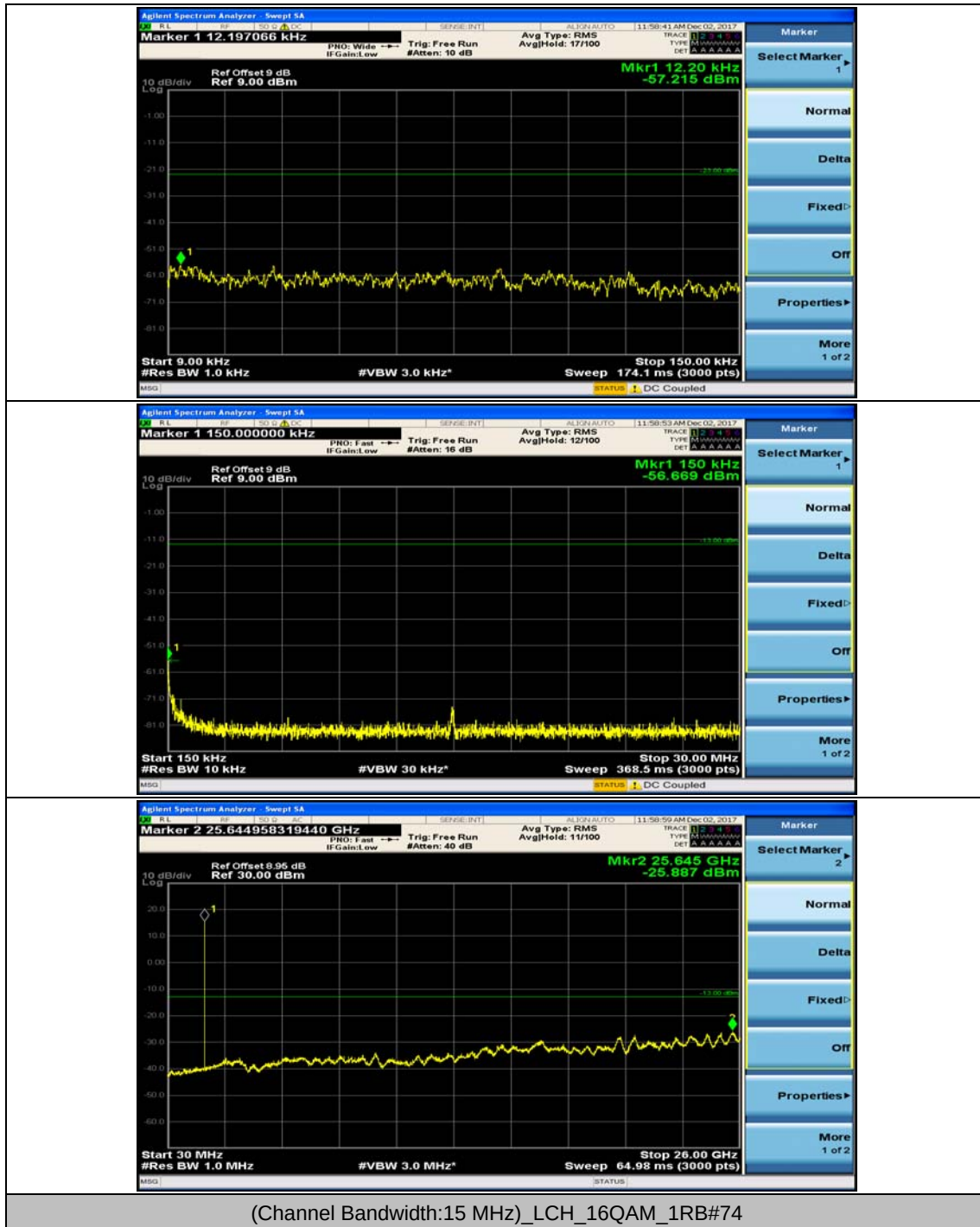


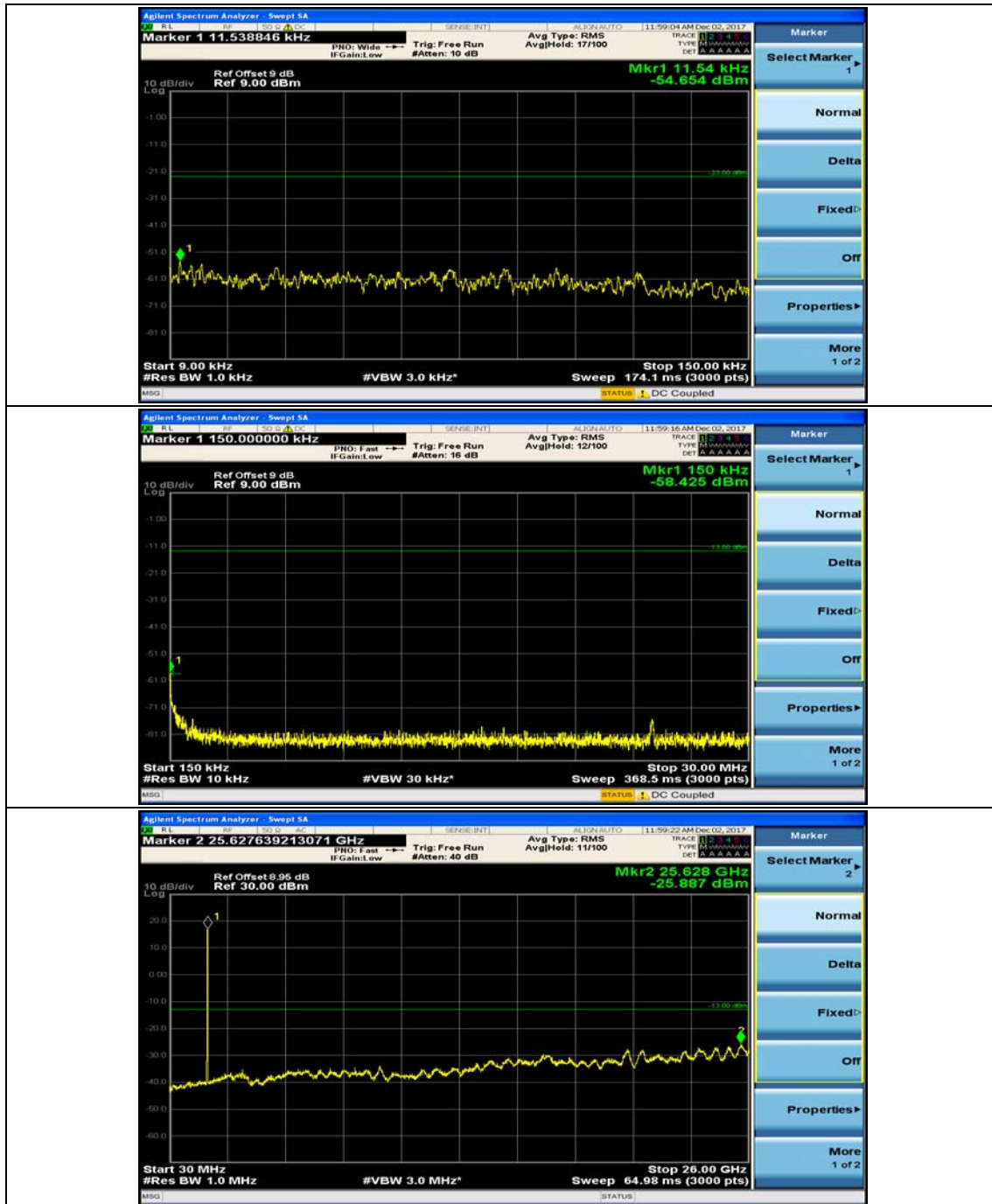


(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#0

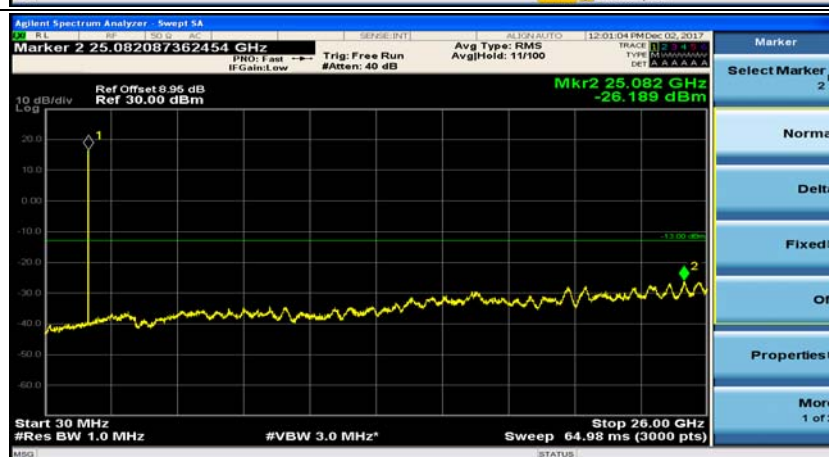
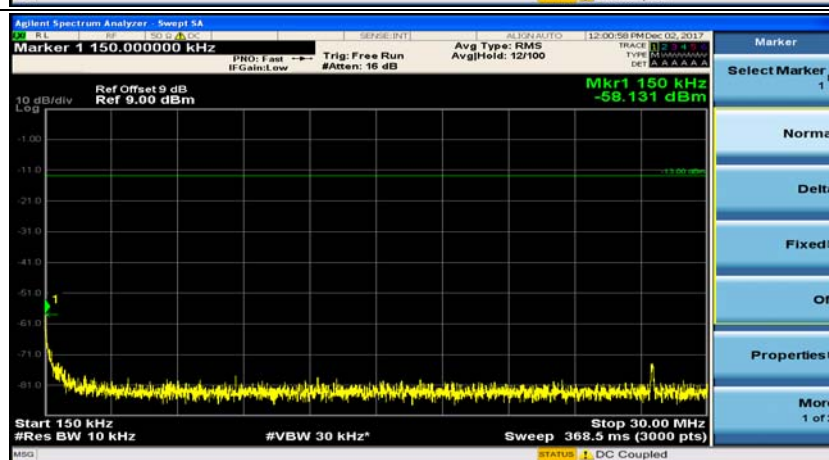
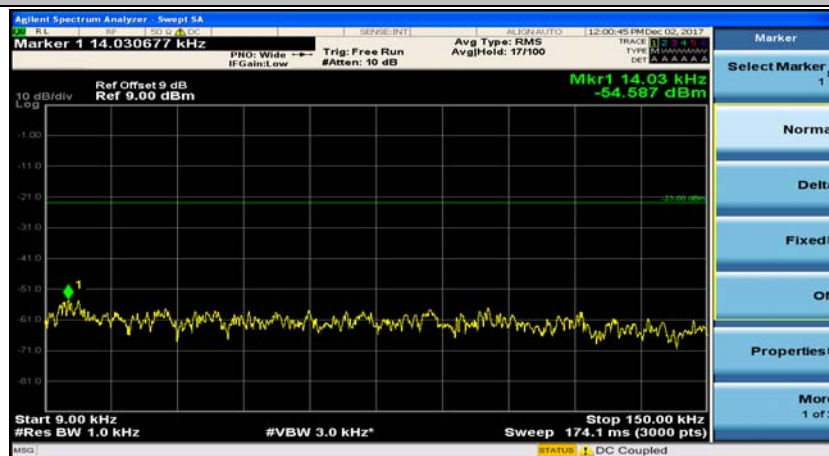


(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#37

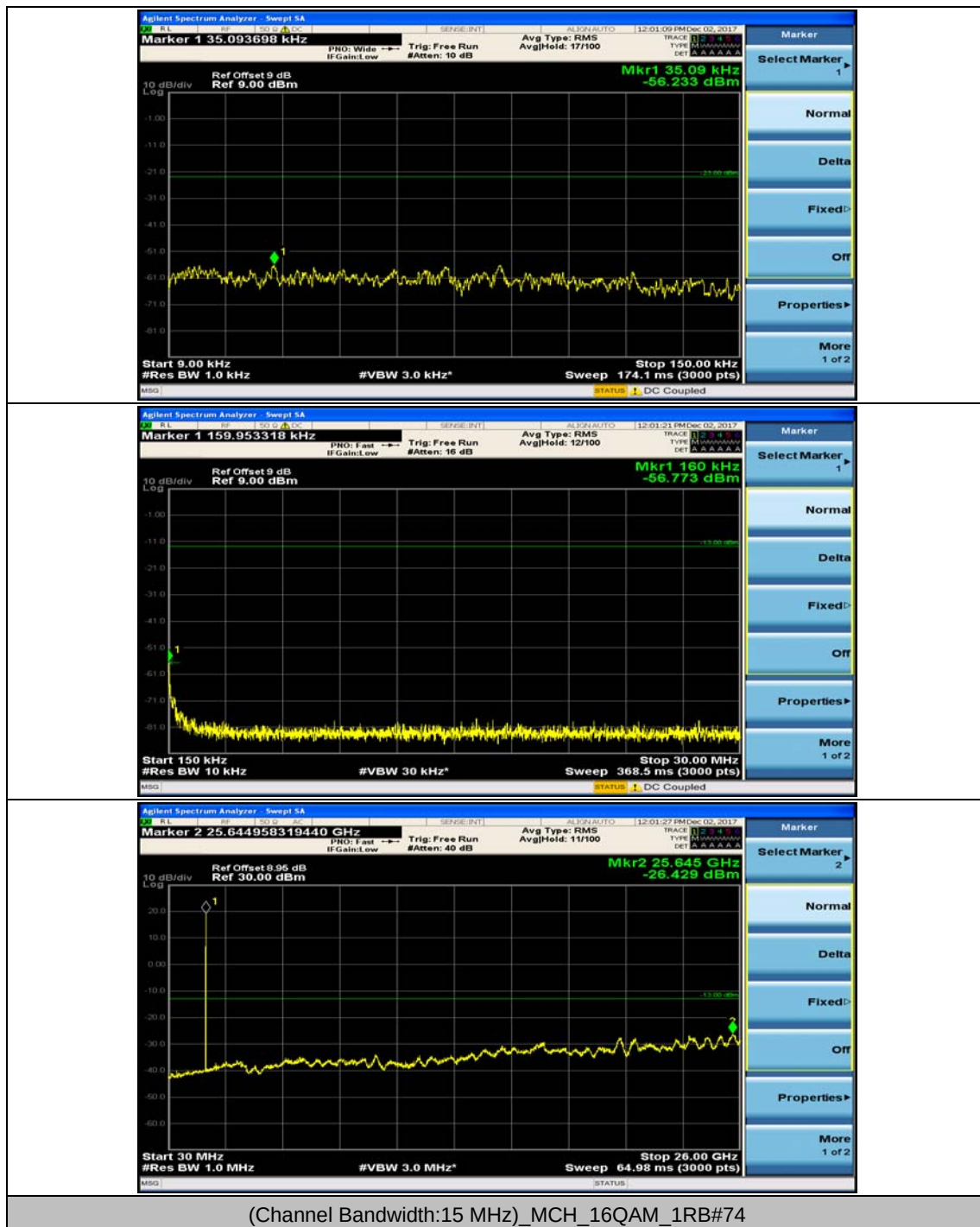


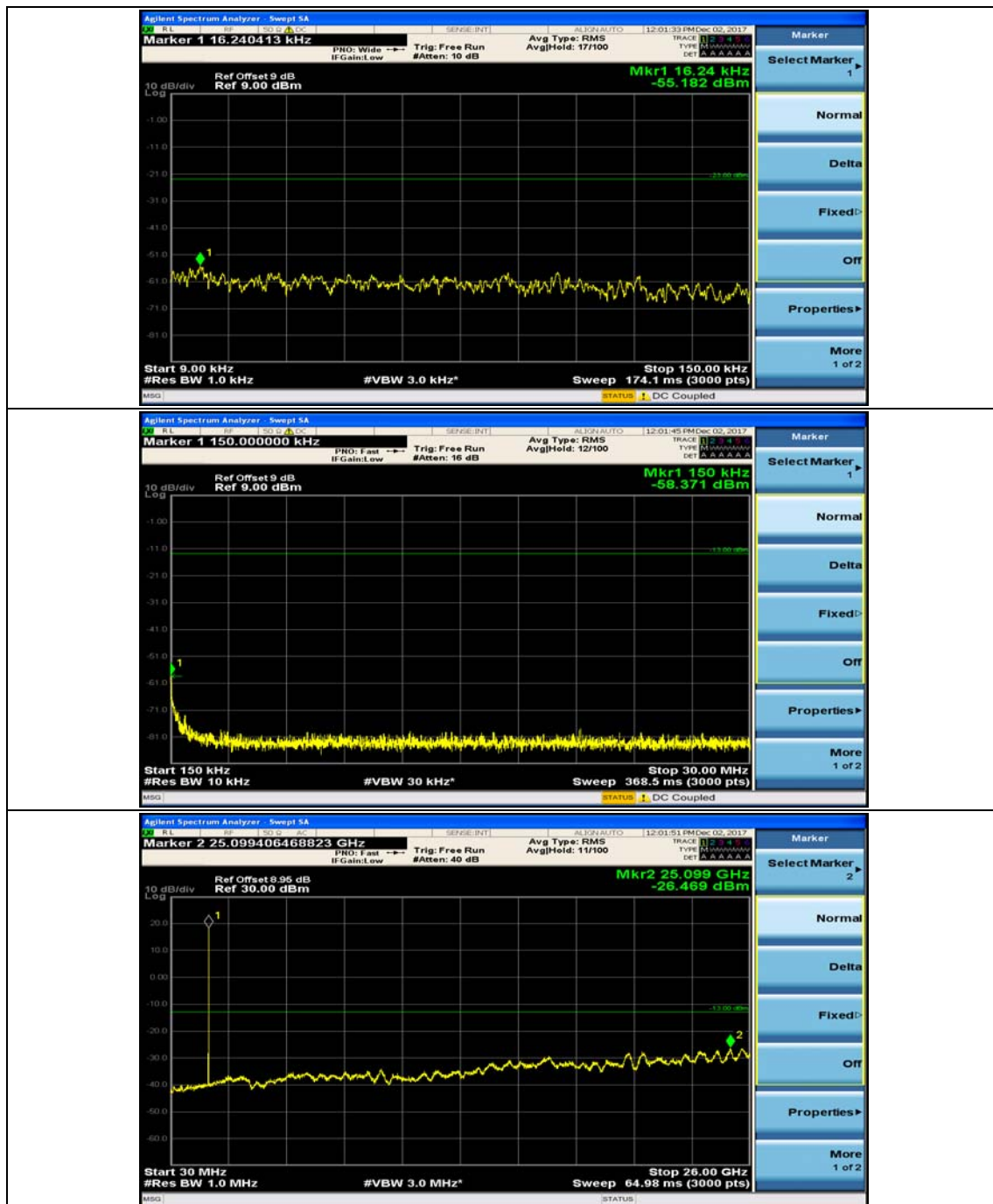


(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#0

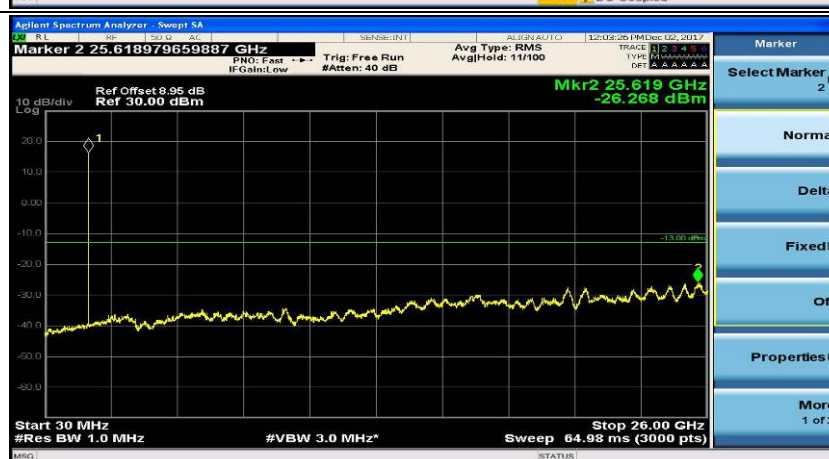
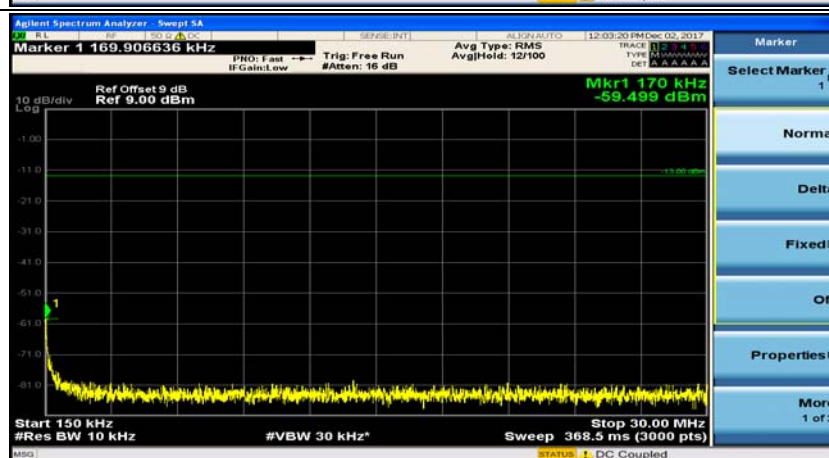
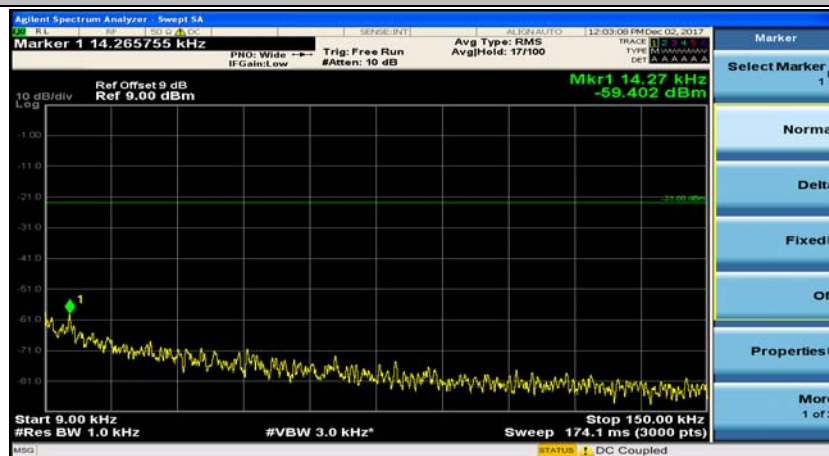


(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#37

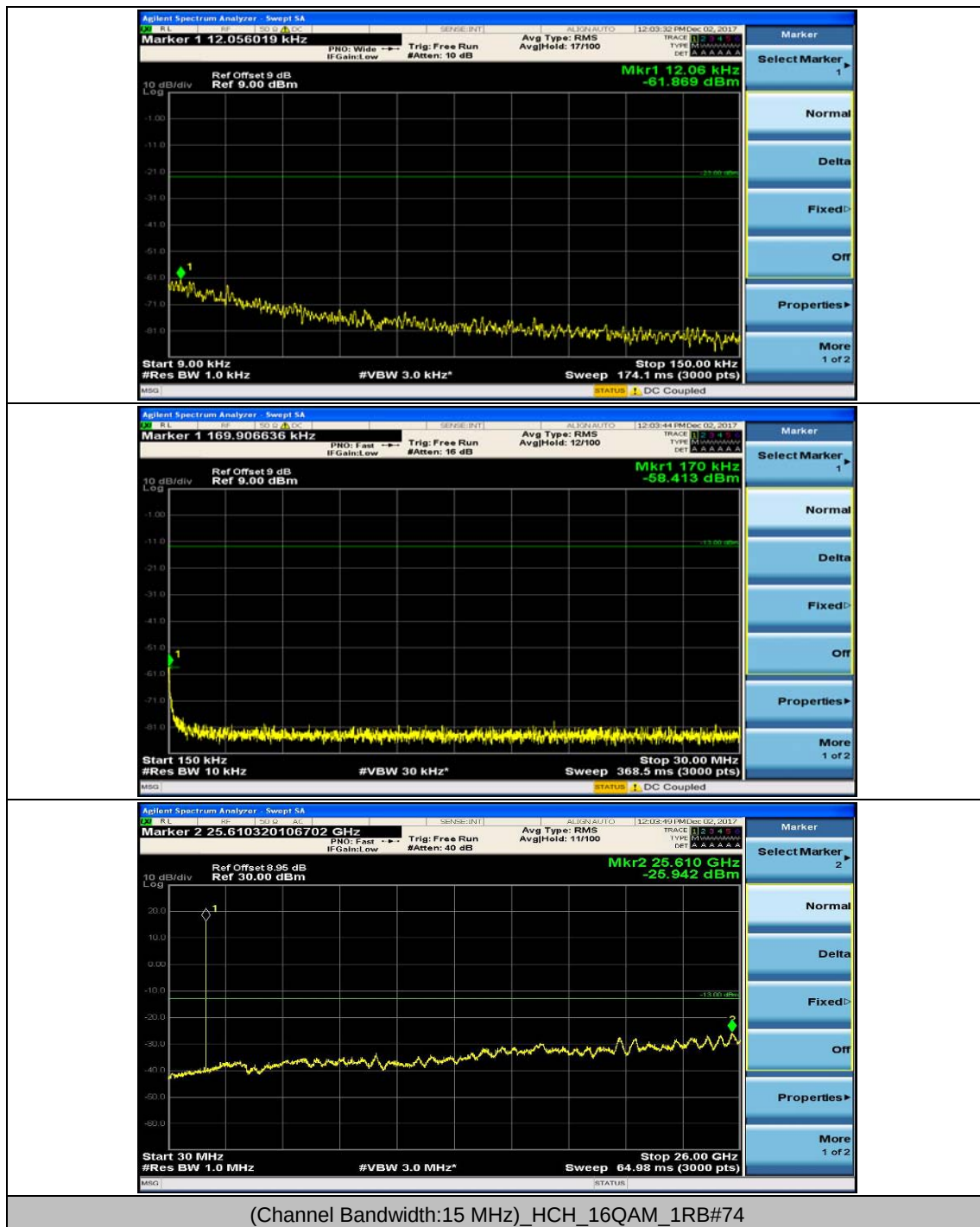


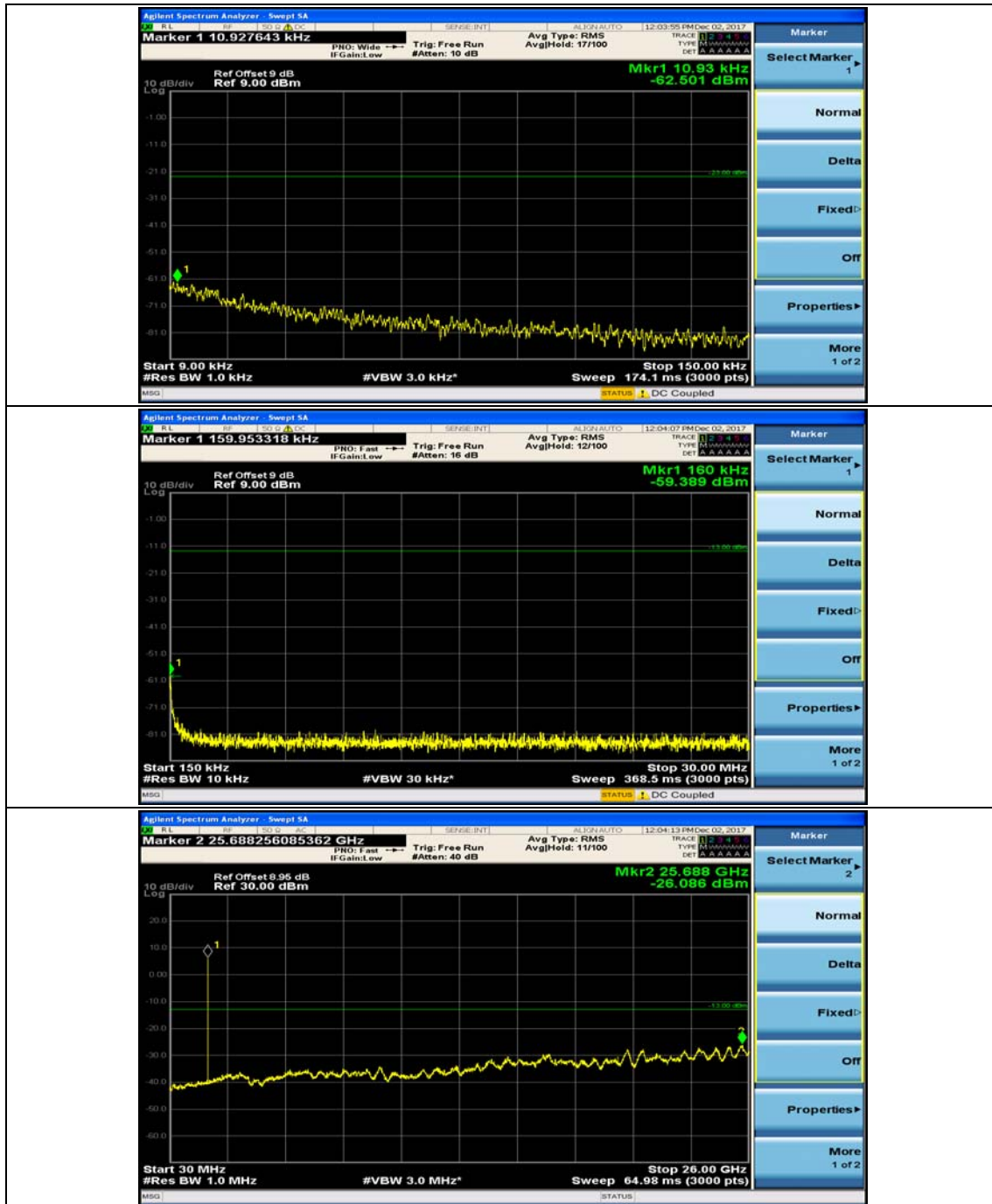


(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#0

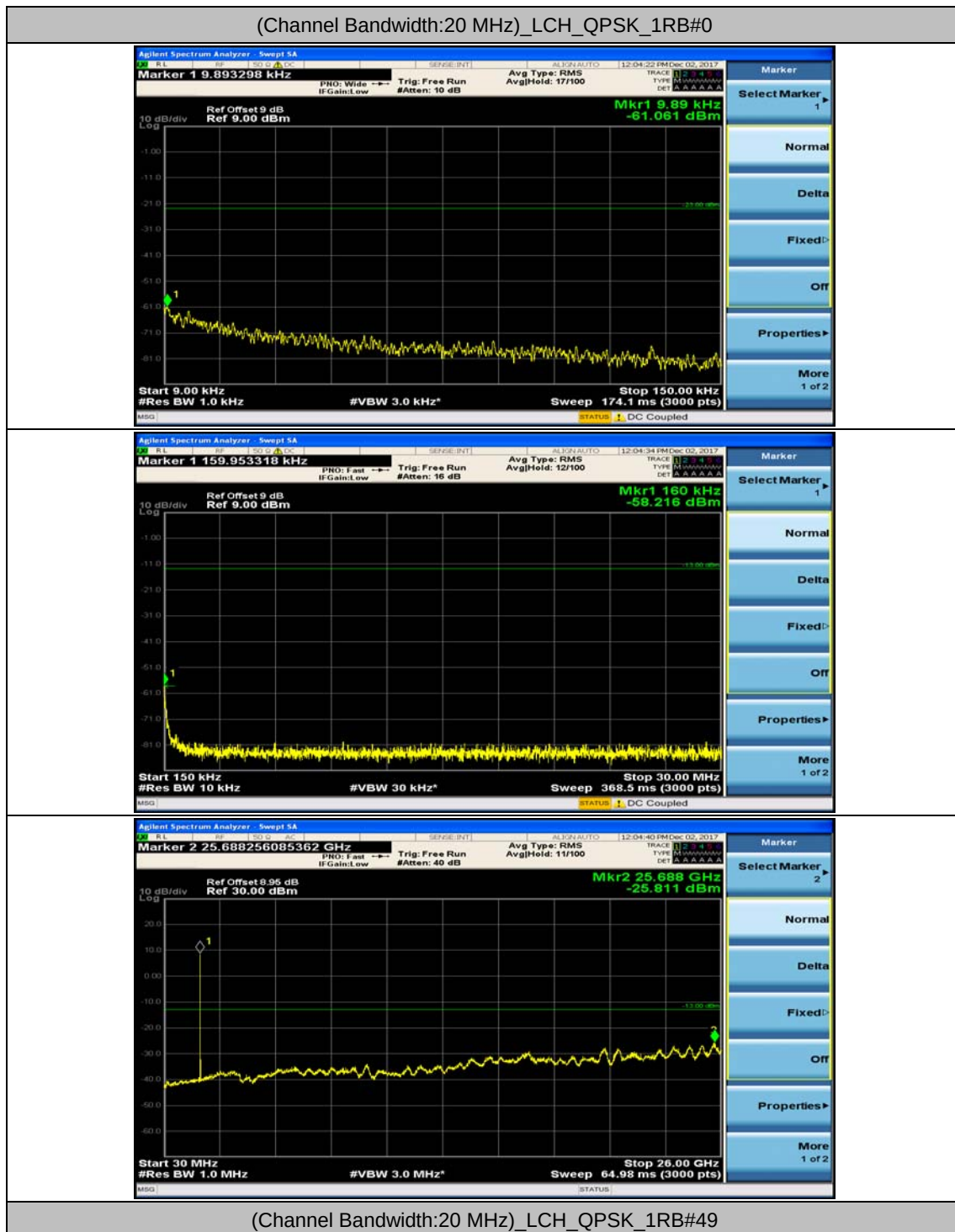


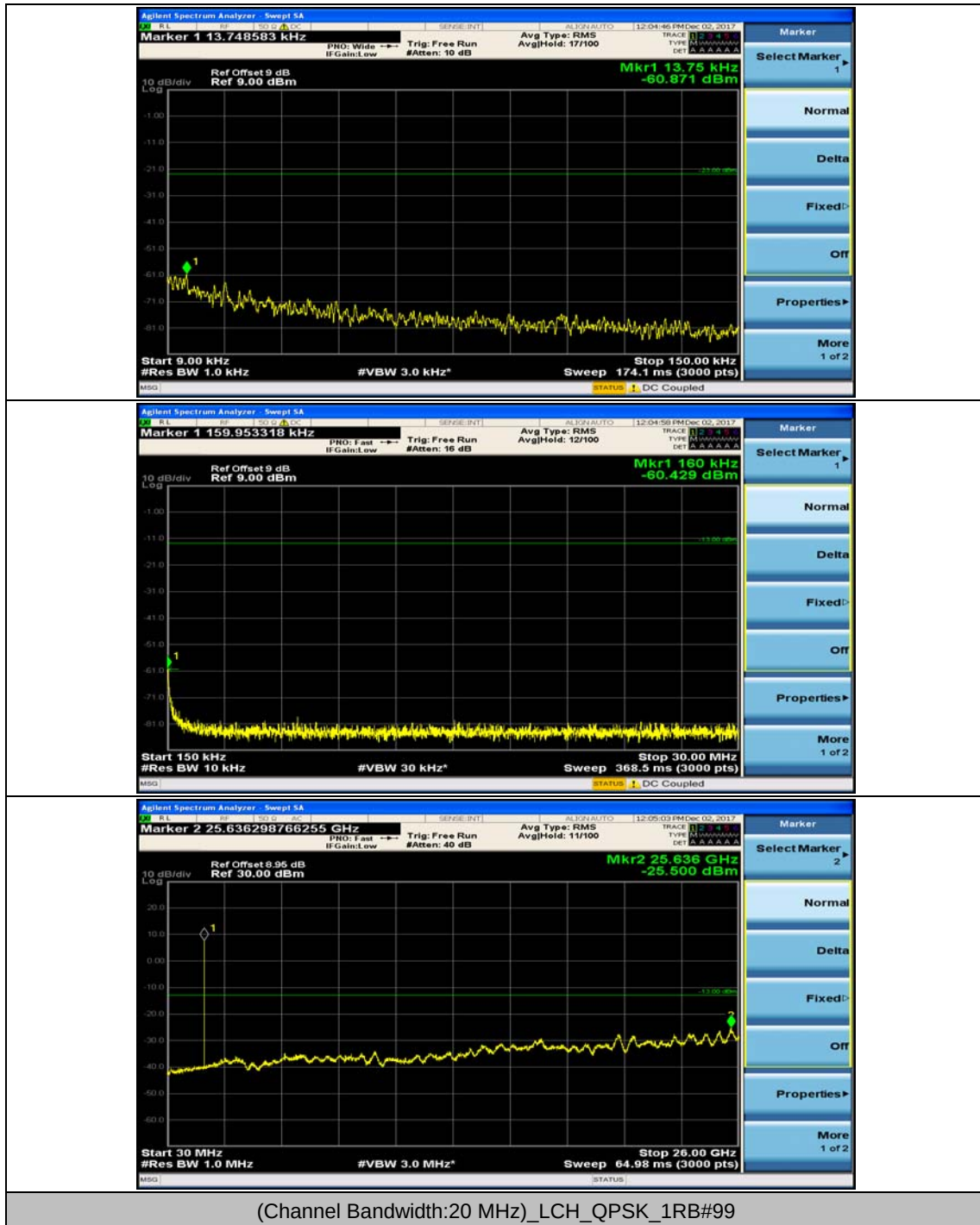
(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#37

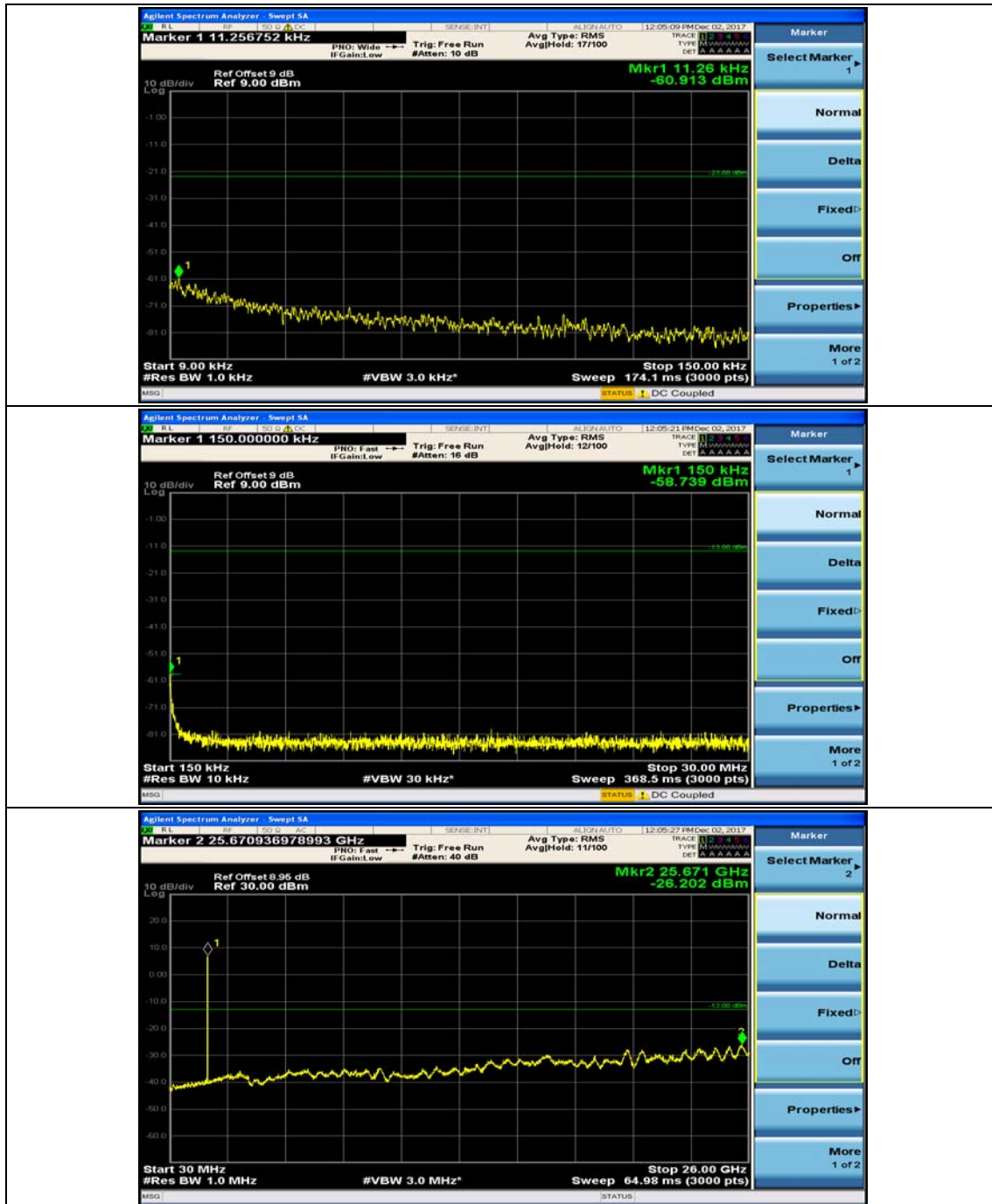




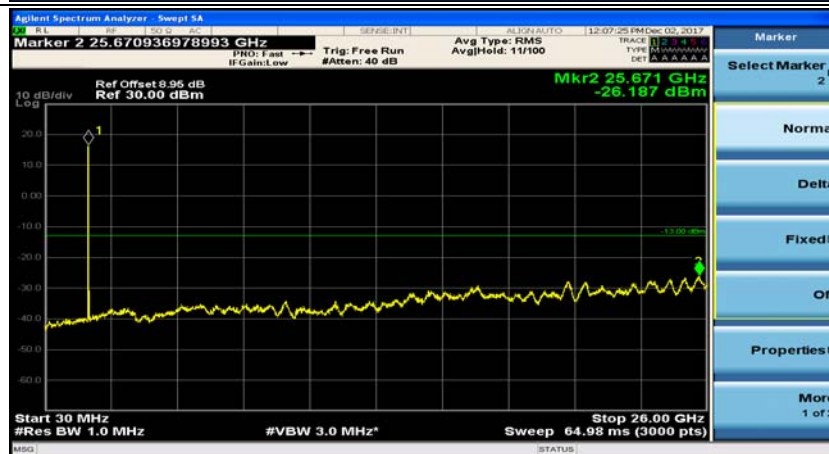
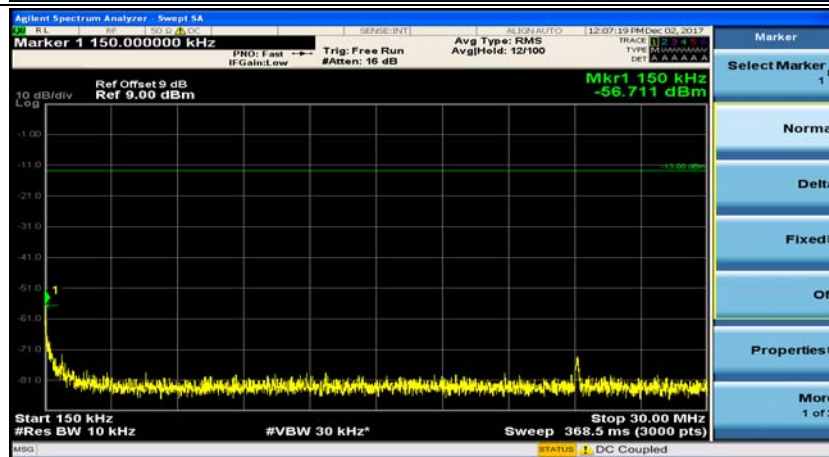
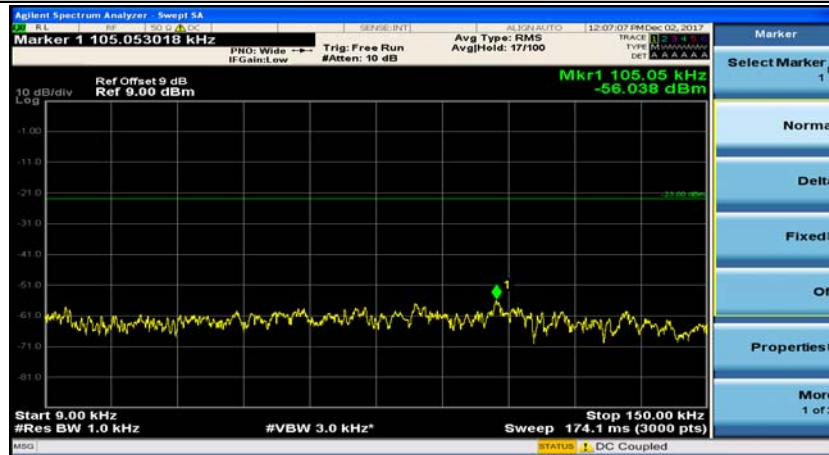
Channel Bandwidth: 20 MHz



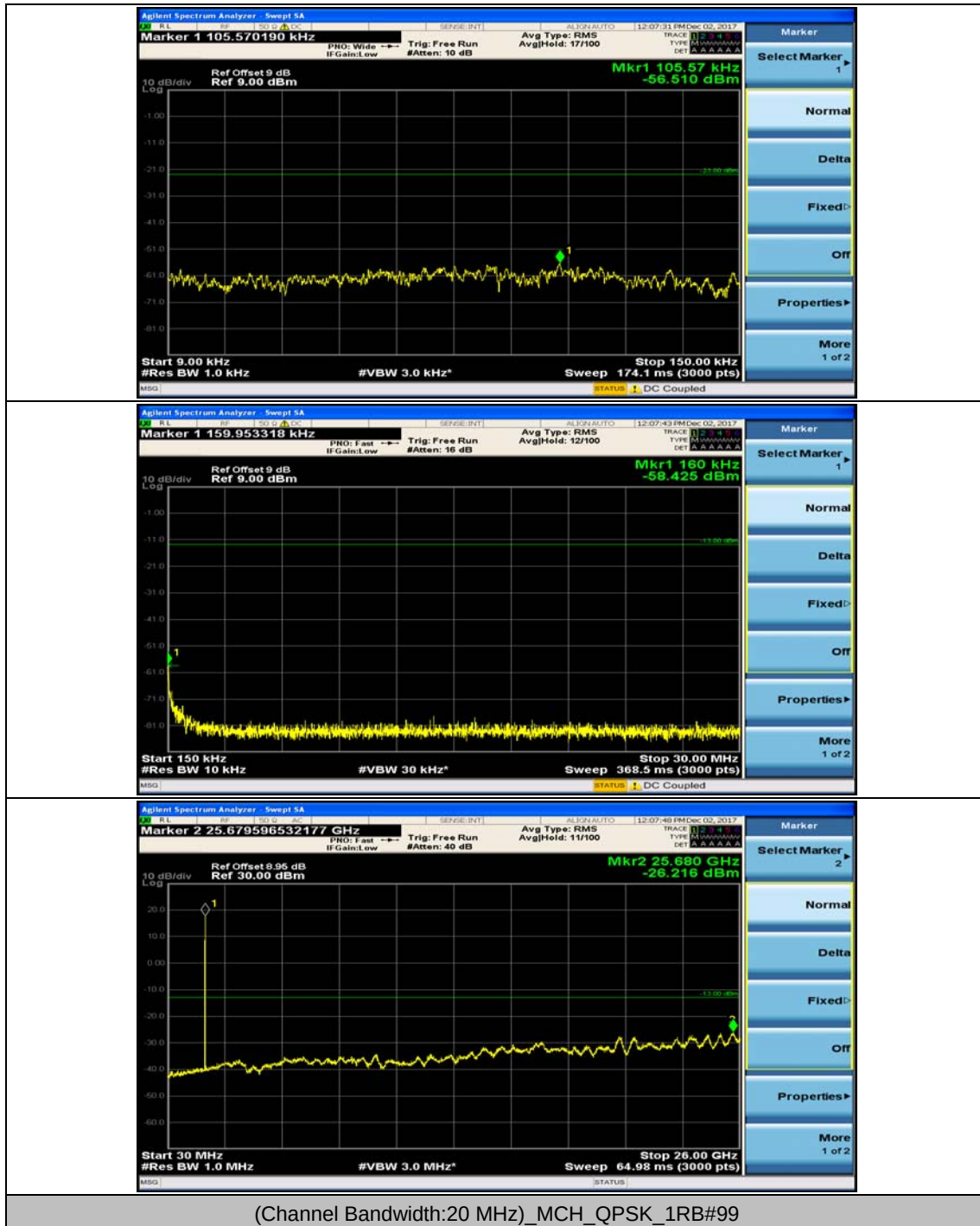


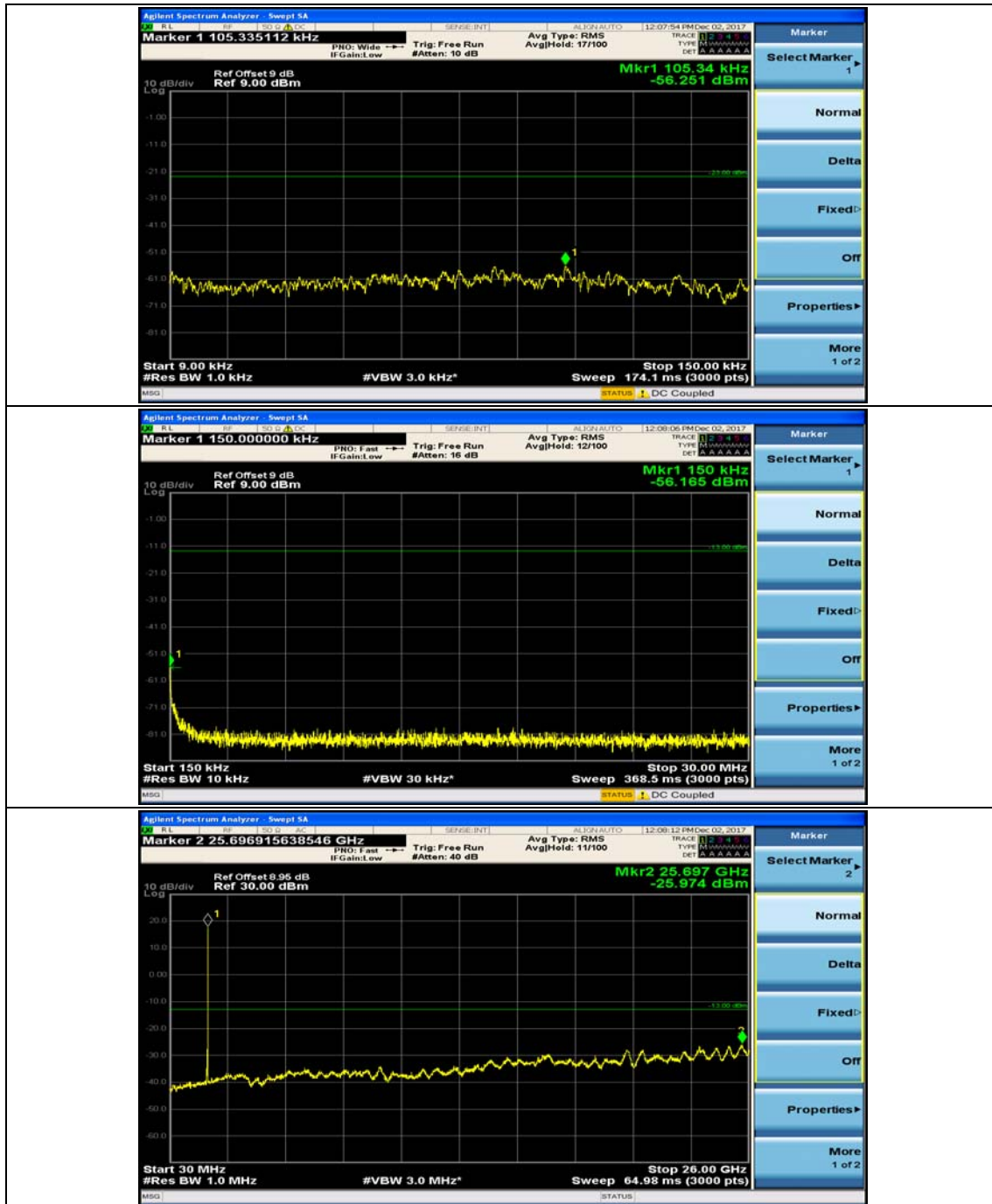


(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#0

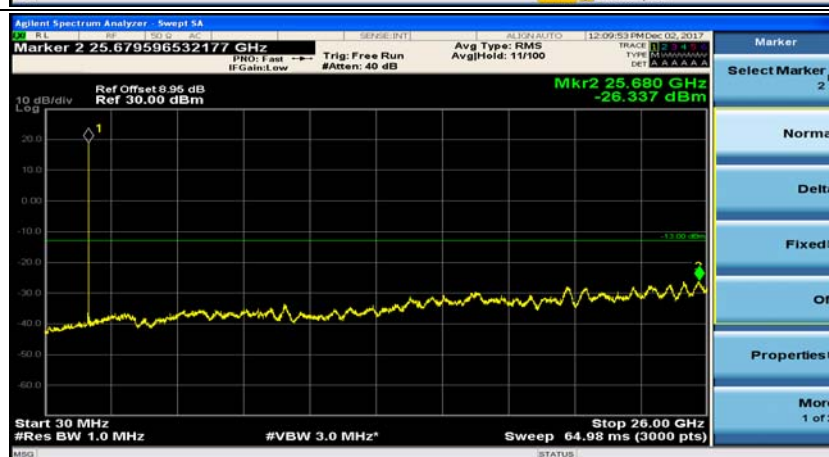
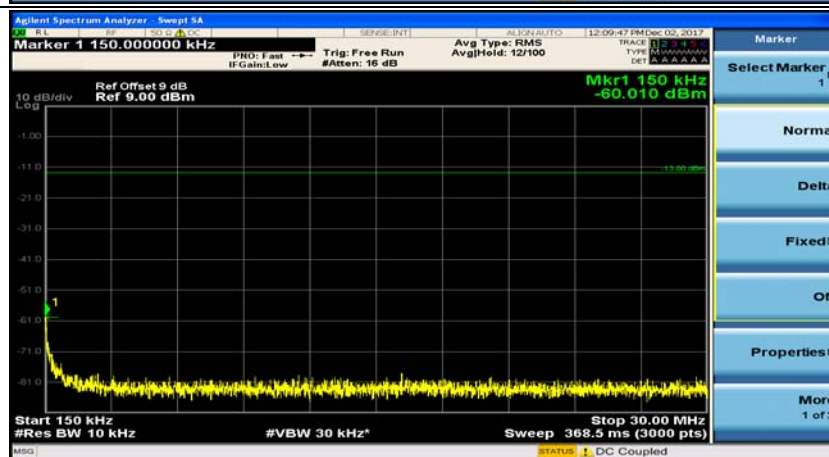
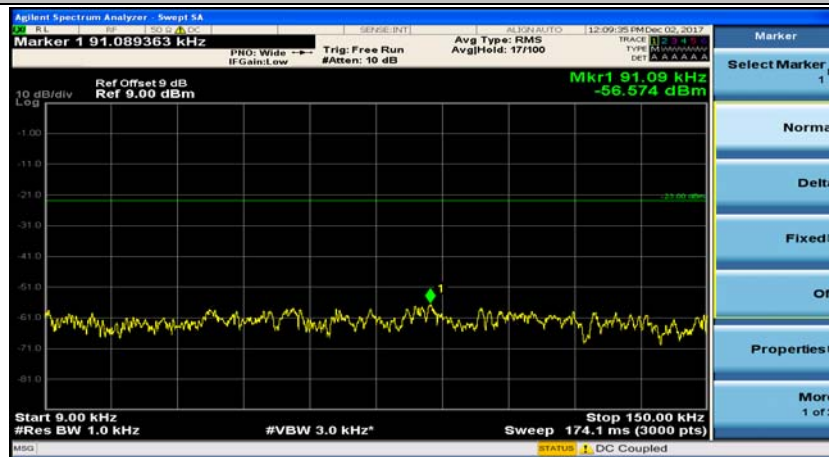


(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#49

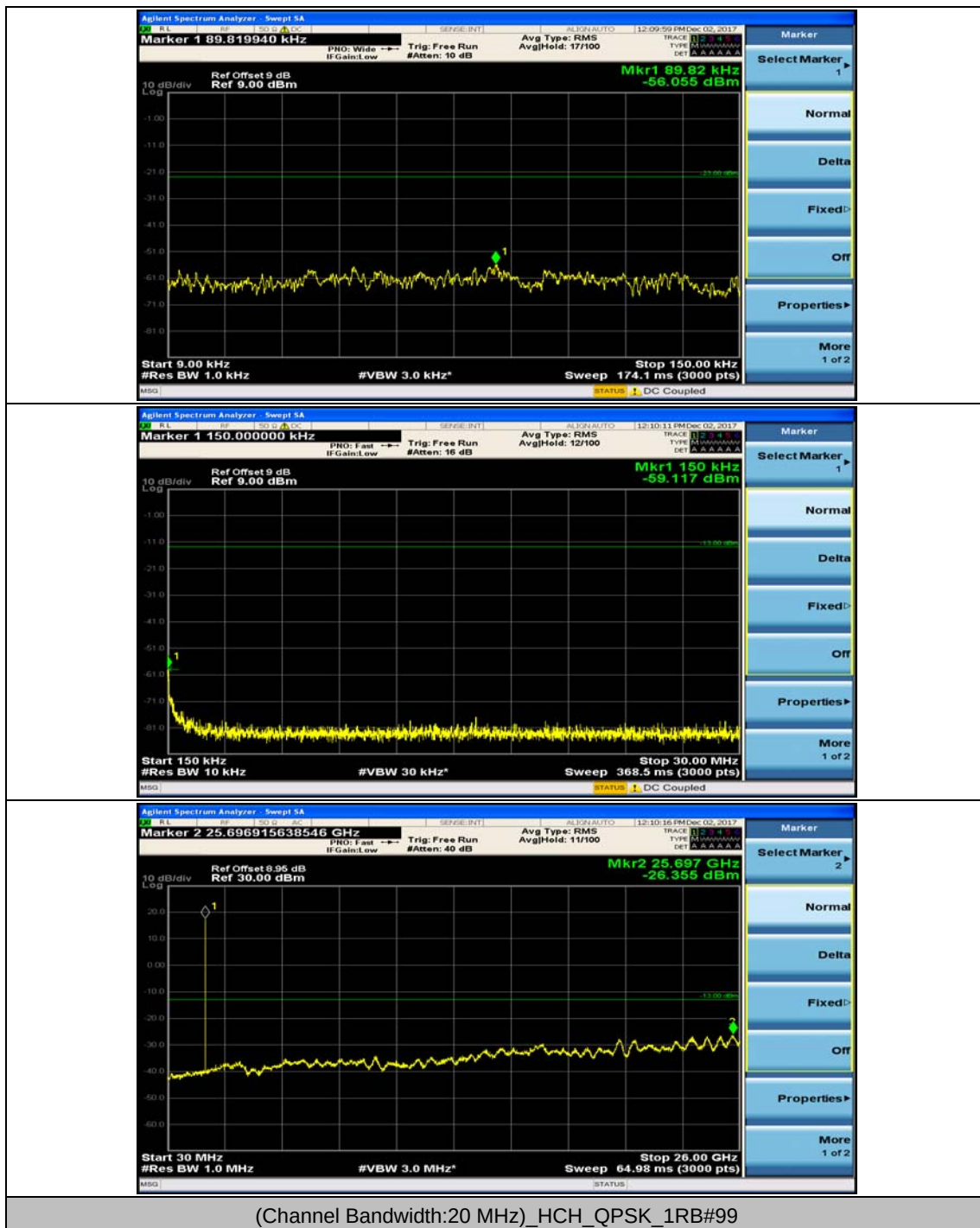


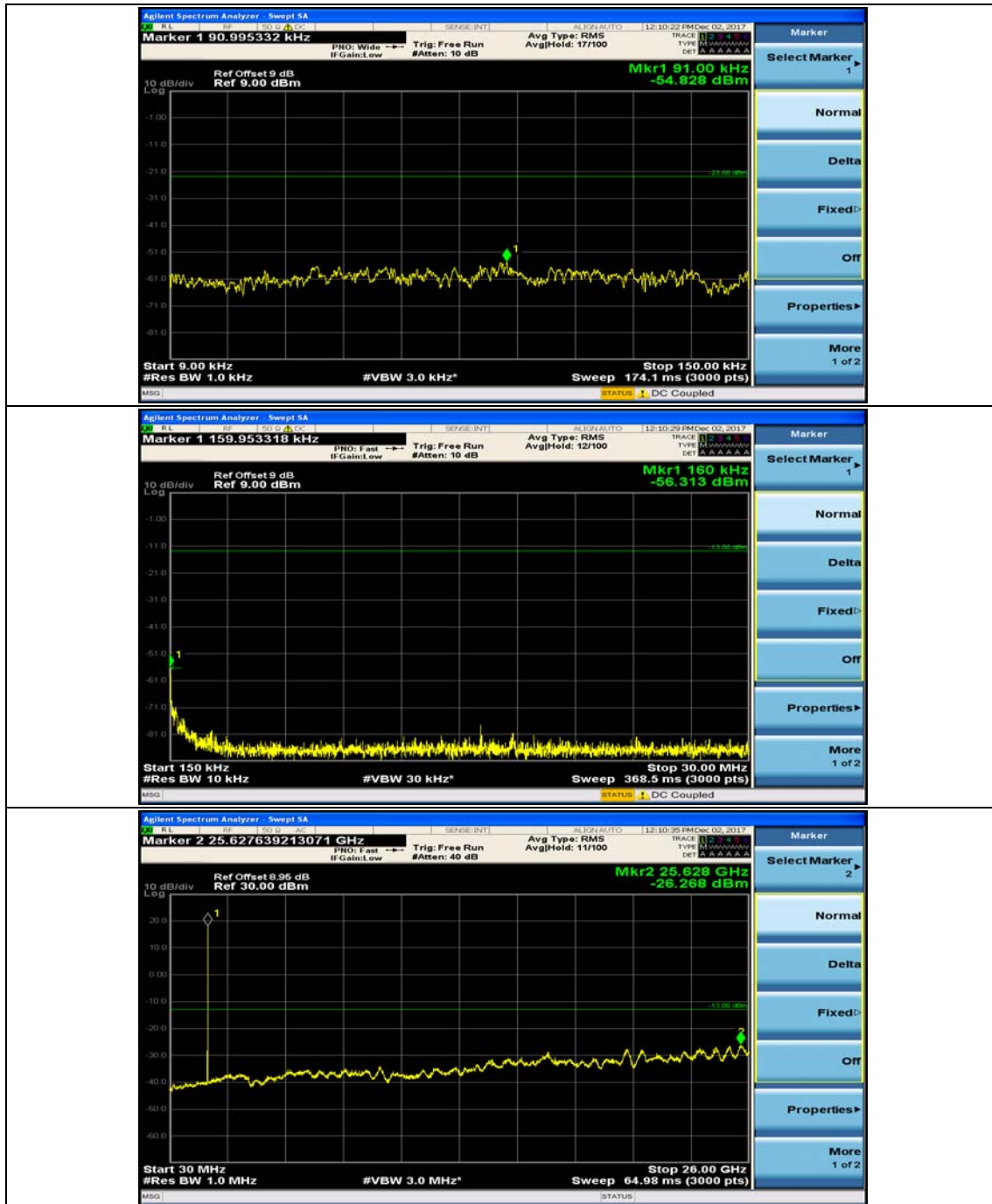


(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#0

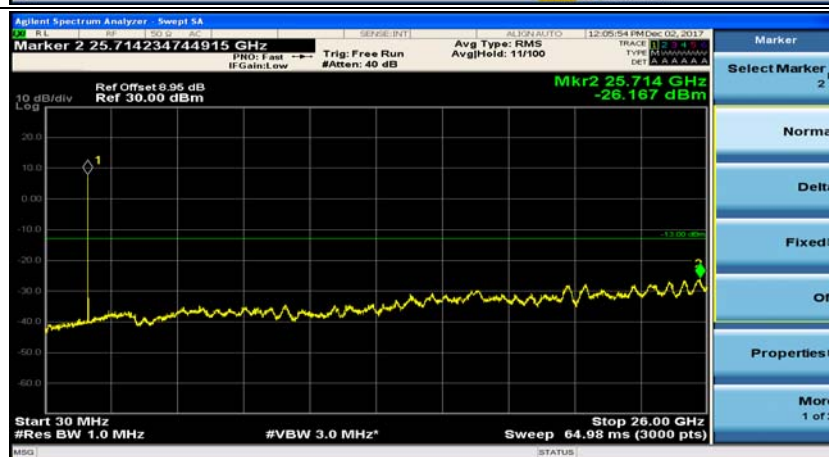
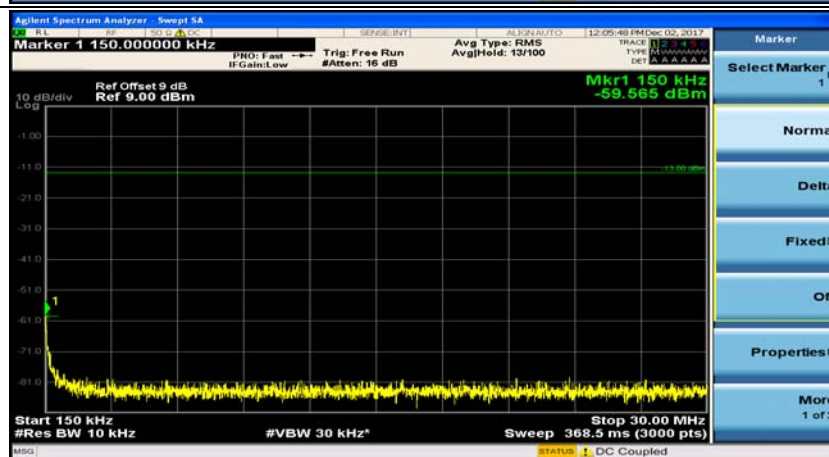
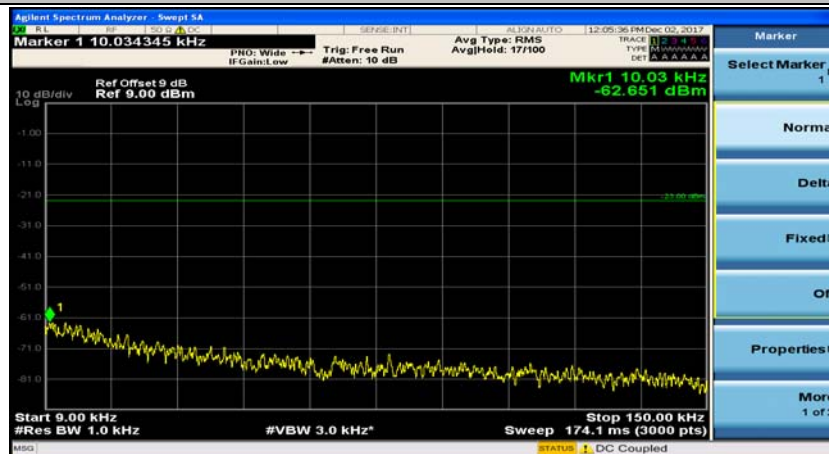


(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#49

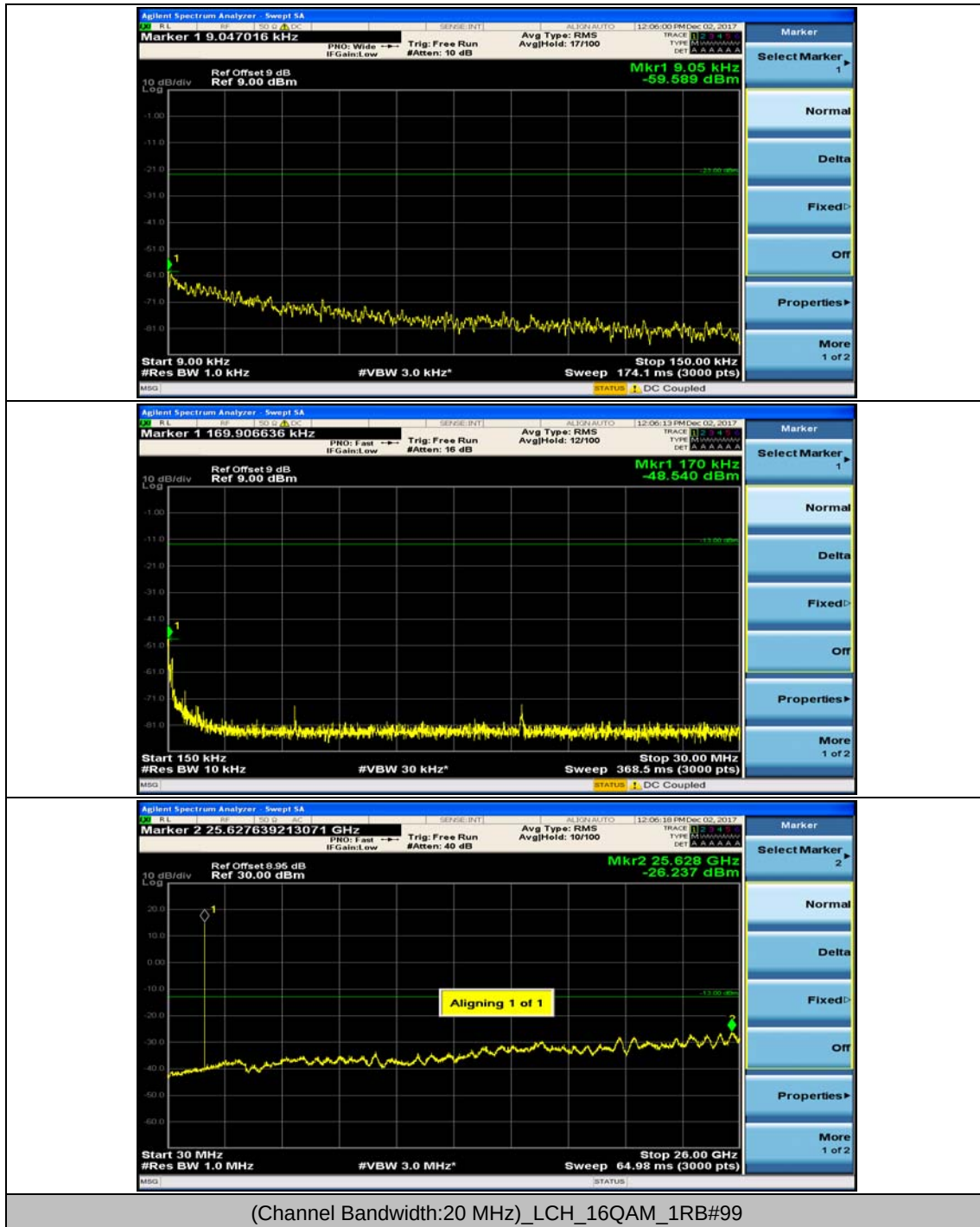


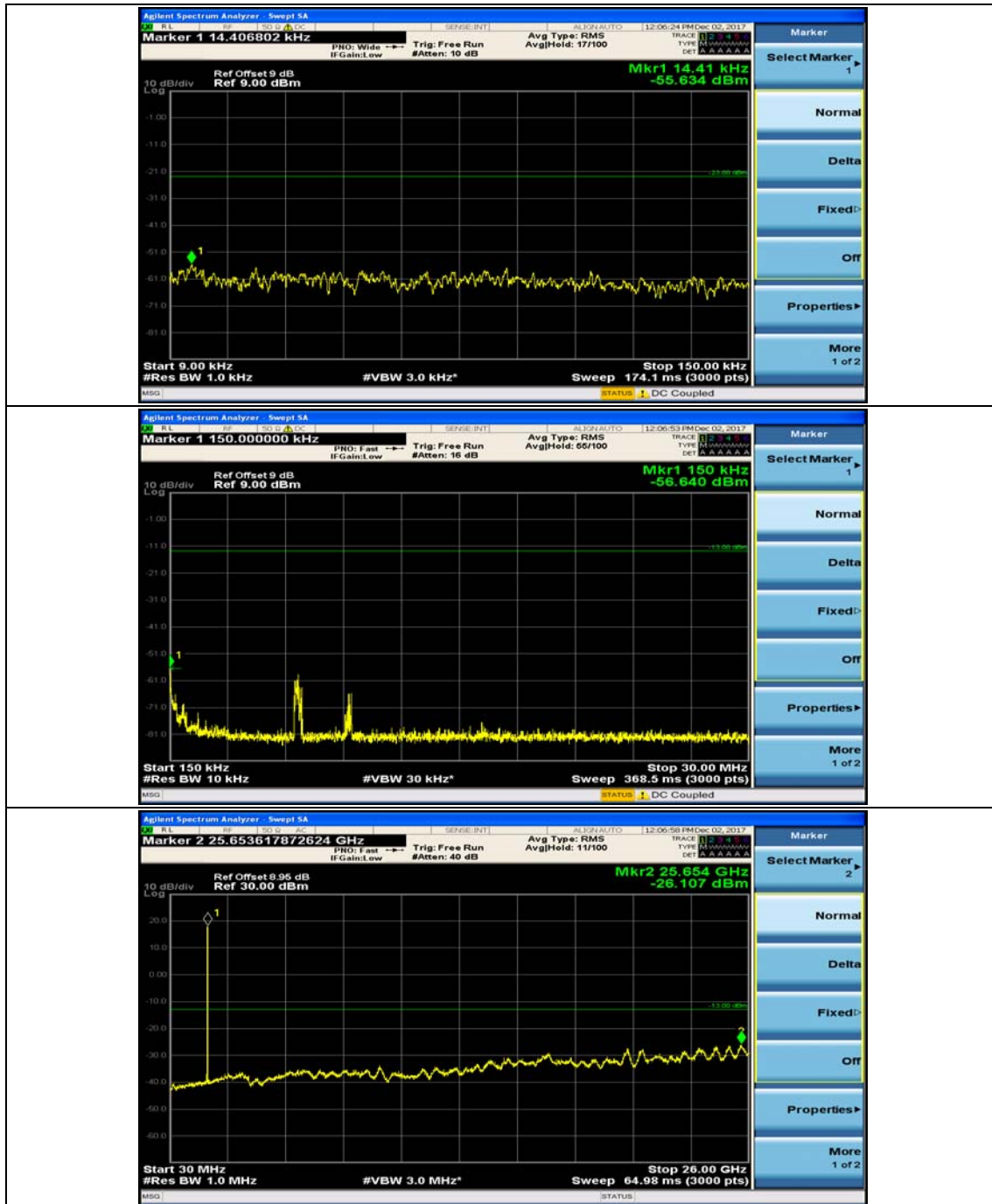


(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#0

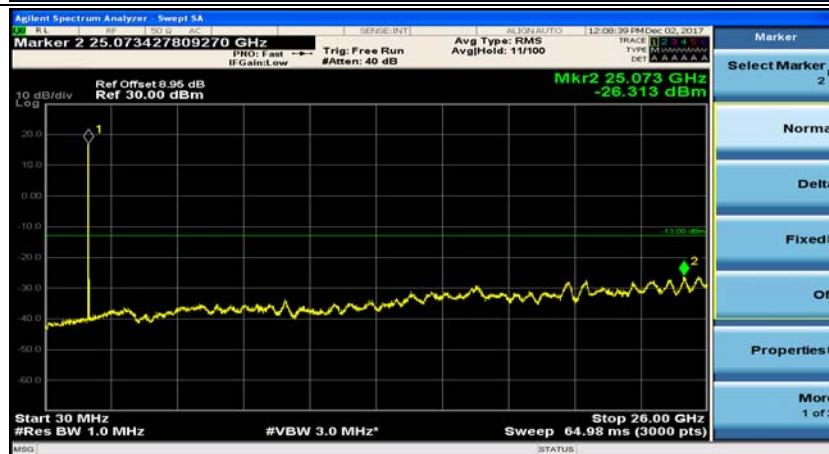
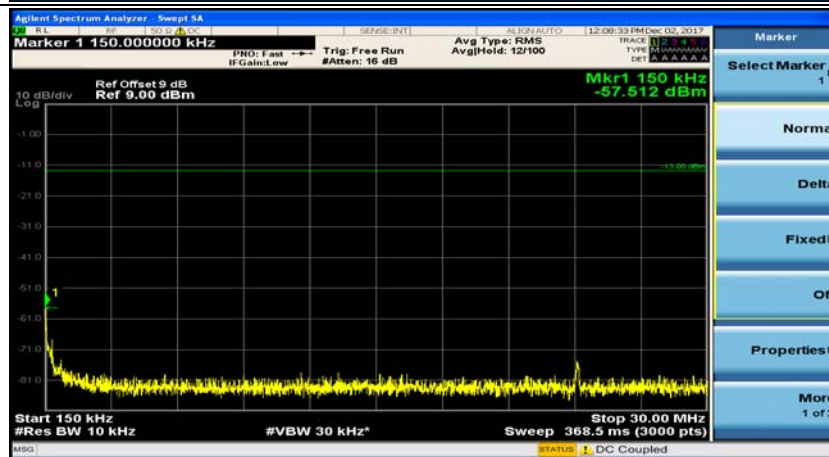
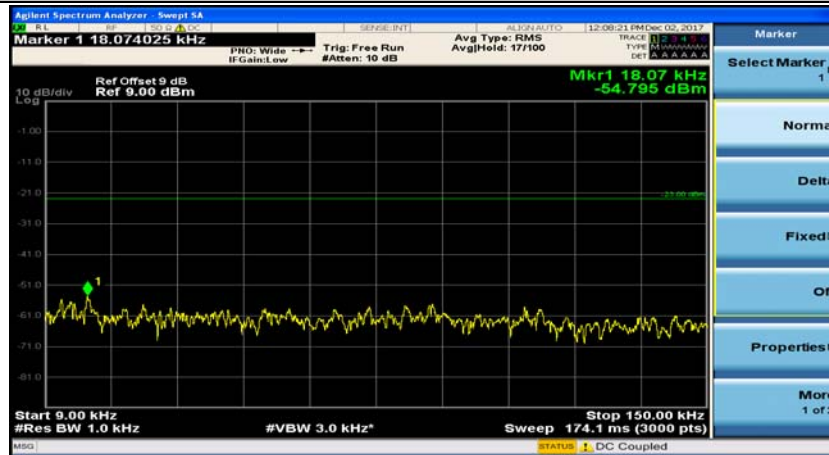


(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#49

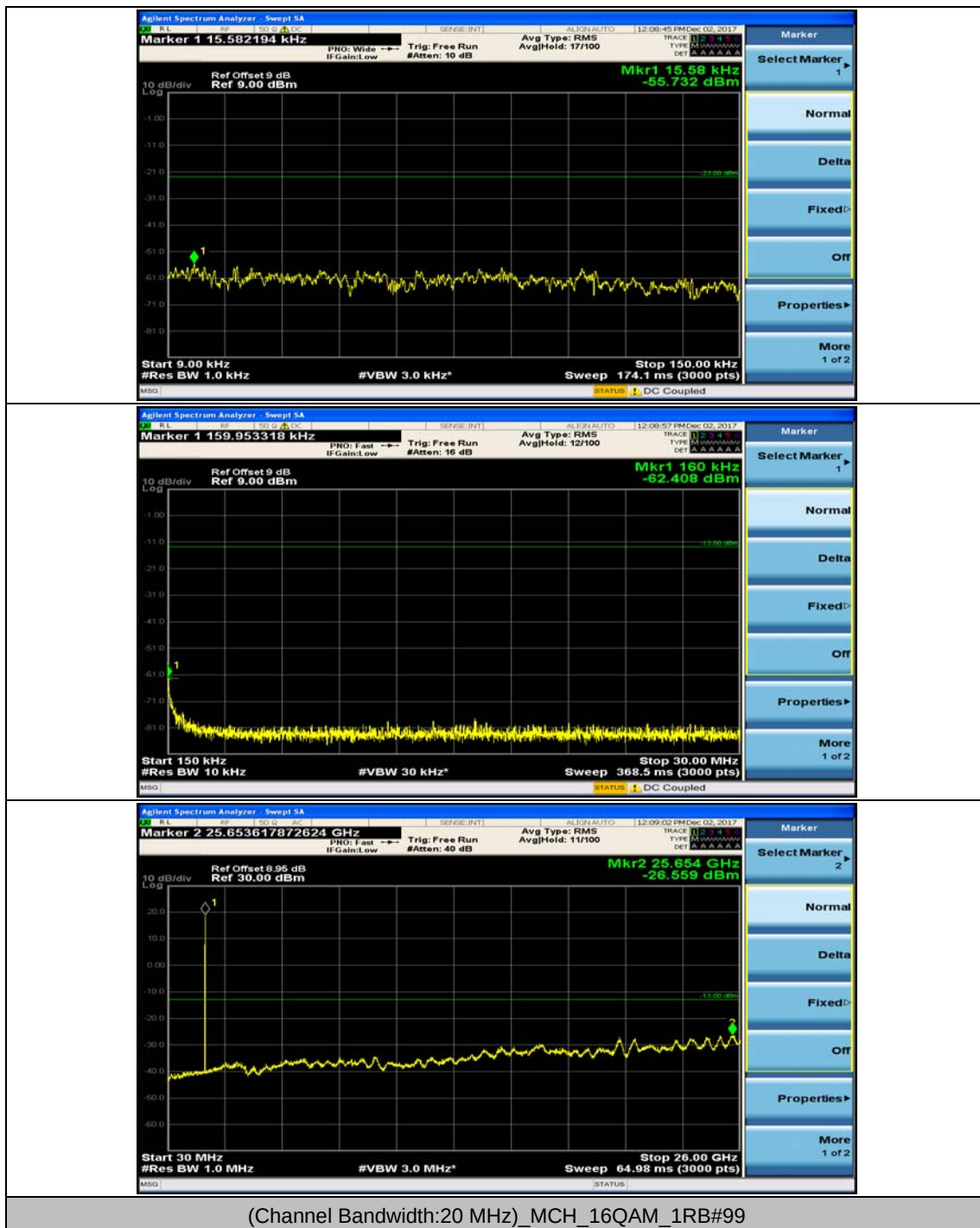


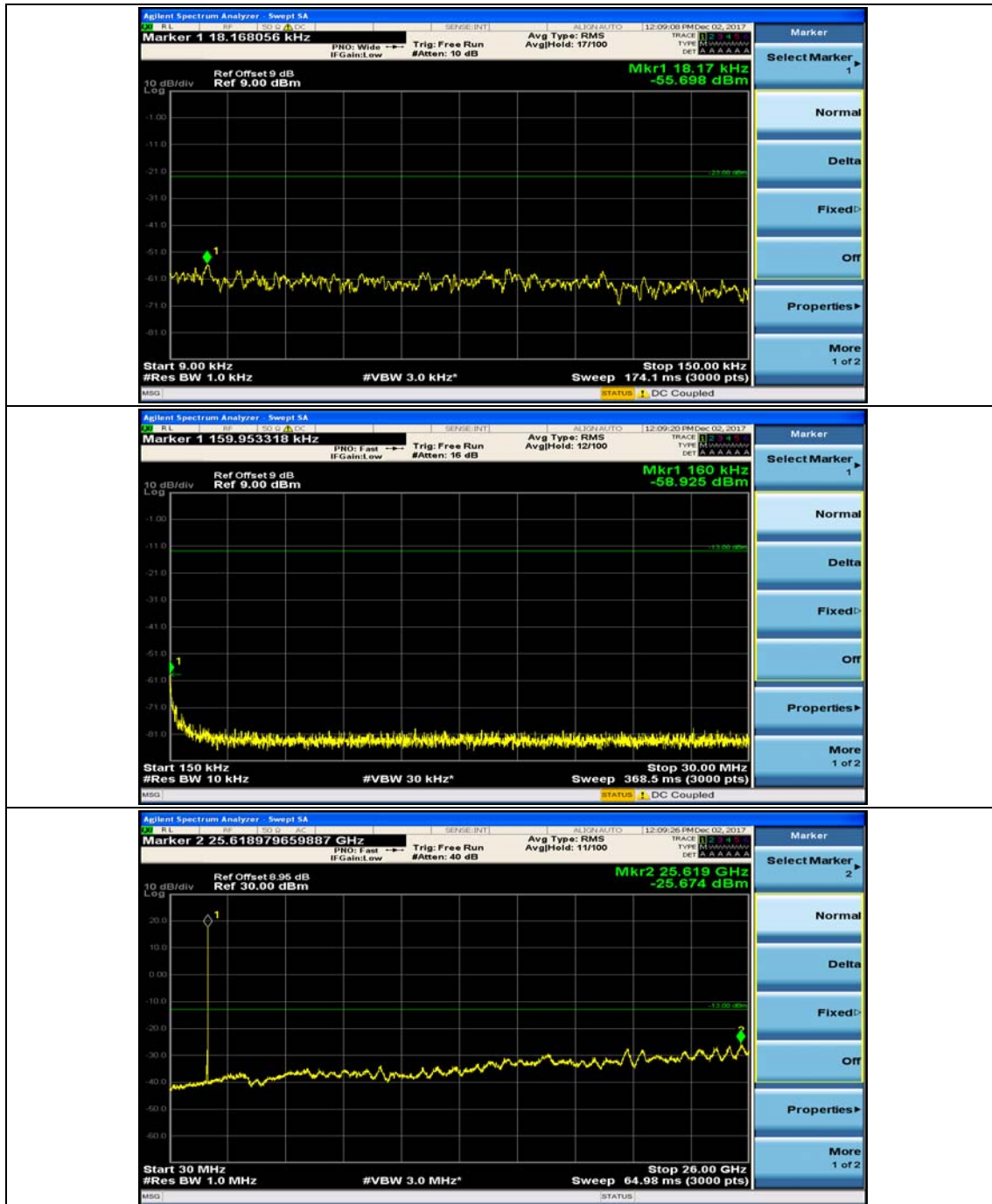


(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#0

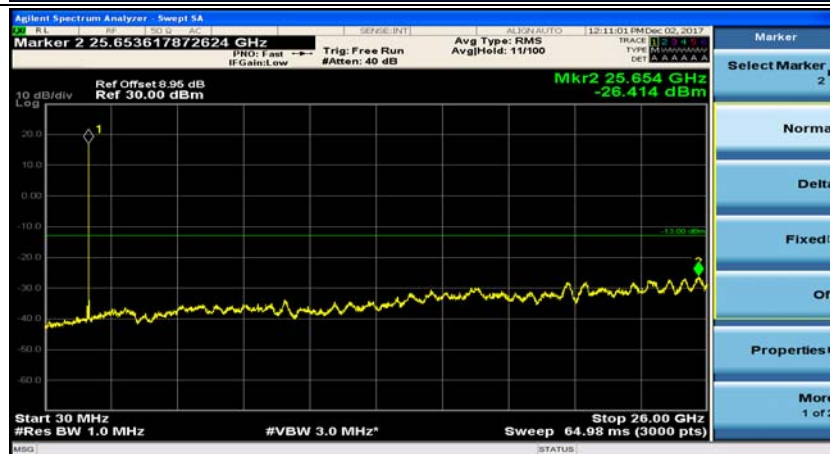
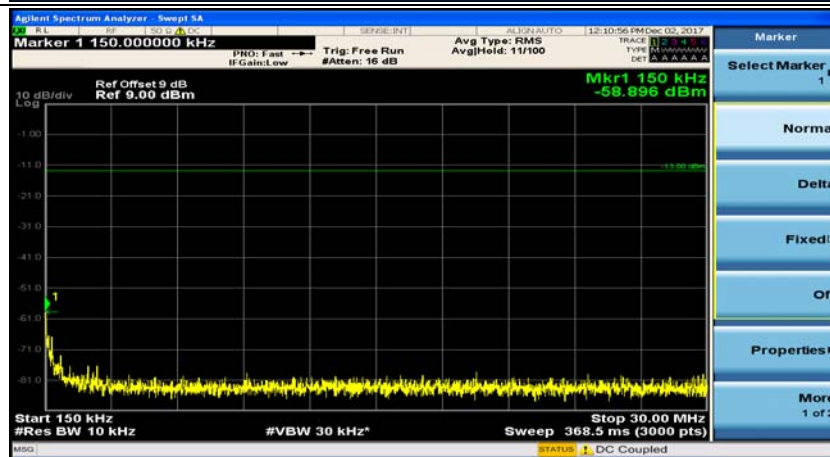
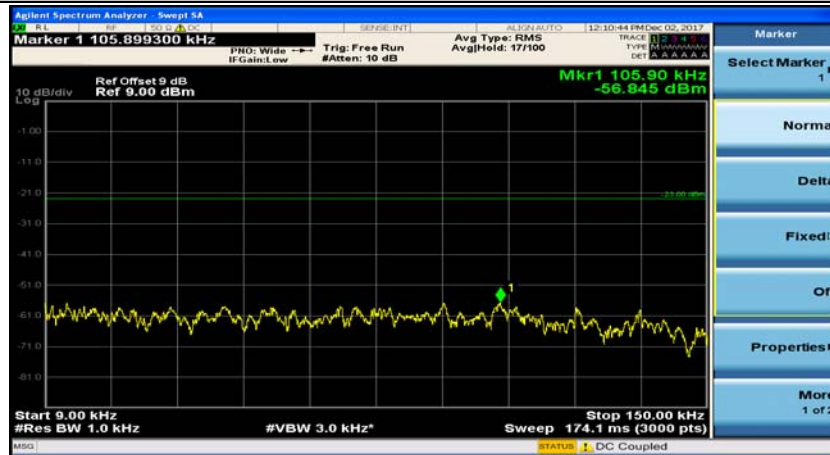


(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#49

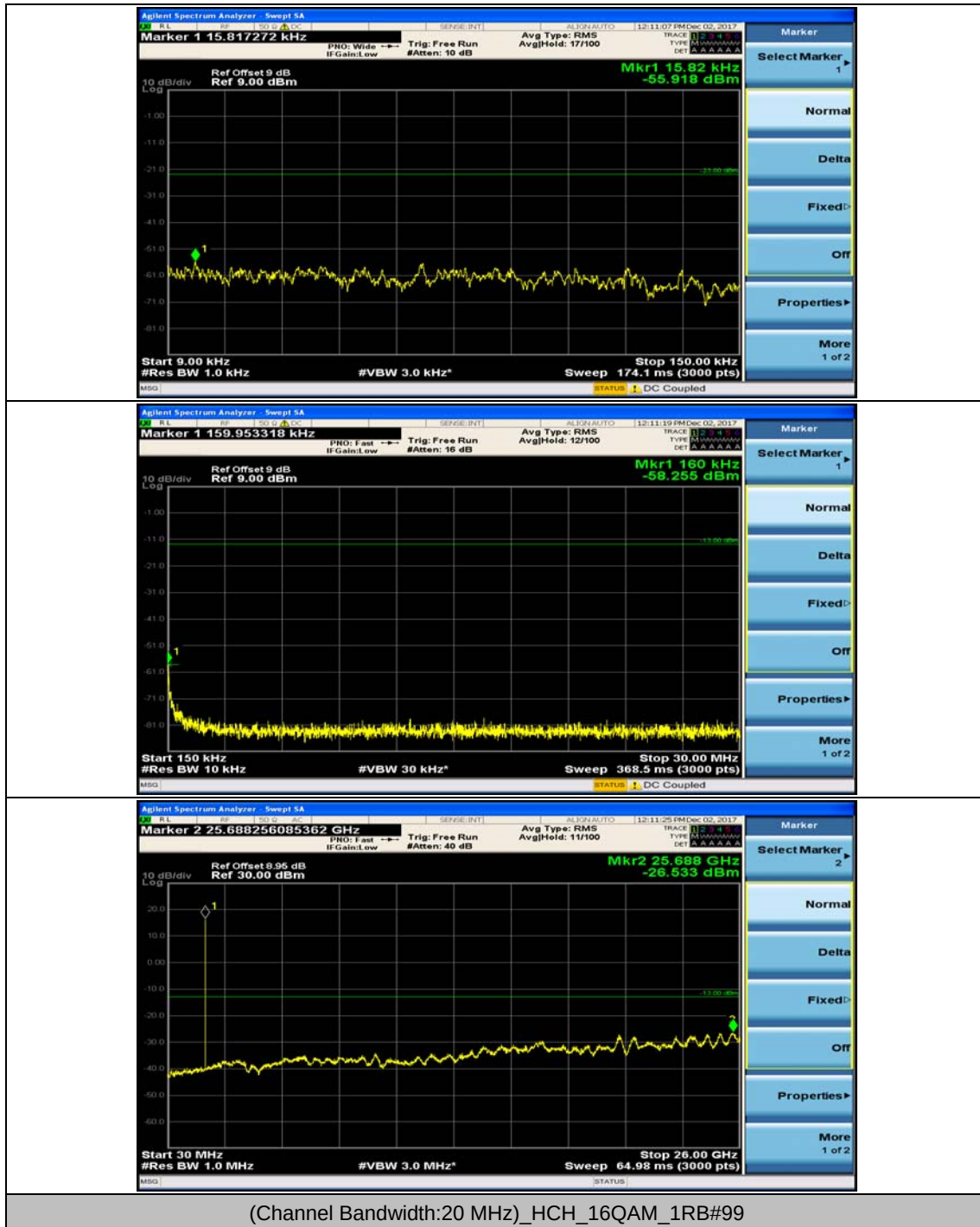


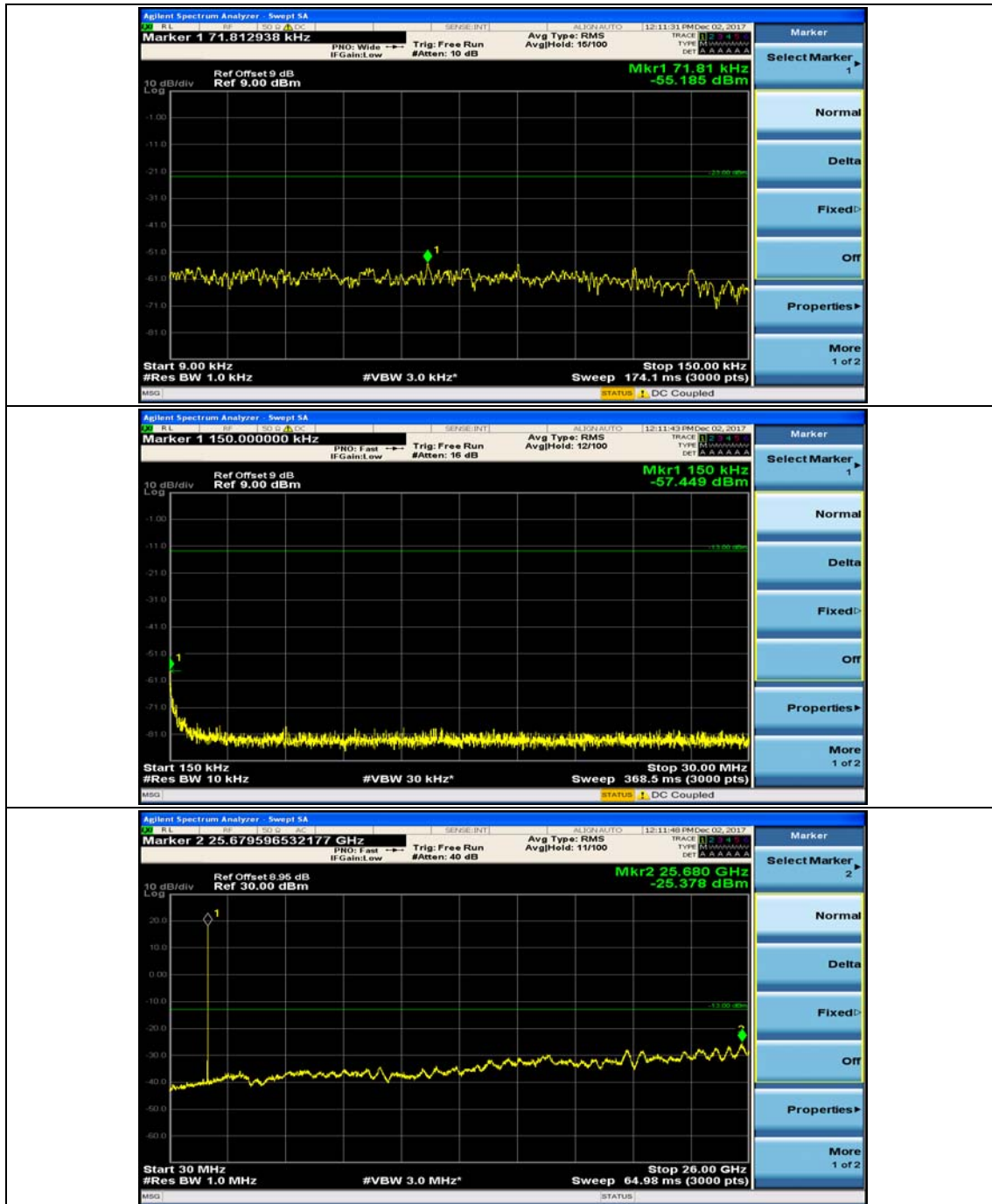


(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#0



(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	0.05	0.000029	± 2.5	PASS
		VN	TN	2.19	0.001280	± 2.5	PASS
		VH	TN	3.47	0.002028	± 2.5	PASS
	MCH	VL	TN	-1.15	-0.000664	± 2.5	PASS
		VN	TN	3.87	0.002234	± 2.5	PASS
		VH	TN	3.65	0.002107	± 2.5	PASS
	HCH	VL	TN	-1.2	-0.000684	± 2.5	PASS
		VN	TN	-1.96	-0.001117	± 2.5	PASS
		VH	TN	4.24	0.002417	± 2.5	PASS
16QAM	LCH	VL	TN	2.41	0.001409	± 2.5	PASS
		VN	TN	0.77	0.000450	± 2.5	PASS
		VH	TN	3.11	0.001818	± 2.5	PASS
	MCH	VL	TN	3.72	0.002147	± 2.5	PASS
		VN	TN	2.97	0.001714	± 2.5	PASS
		VH	TN	-0.38	-0.000219	± 2.5	PASS
	HCH	VL	TN	-1.04	-0.000593	± 2.5	PASS
		VN	TN	2.4	0.001368	± 2.5	PASS
		VH	TN	-0.95	-0.000542	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.39	-0.000813	± 2.5	PASS
		VN	-20	2.35	0.001374	± 2.5	PASS
		VN	-10	-1.73	-0.001011	± 2.5	PASS
		VN	0	3.7	0.002163	± 2.5	PASS
		VN	10	2.8	0.001637	± 2.5	PASS
		VN	20	-1.88	-0.001099	± 2.5	PASS
		VN	30	3.1	0.001812	± 2.5	PASS
		VN	40	3.25	0.001900	± 2.5	PASS
		VN	50	-1.76	-0.001029	± 2.5	PASS
	MCH	VN	-30	0.77	0.000444	± 2.5	PASS
		VN	-20	4.89	0.002823	± 2.5	PASS
		VN	-10	-0.79	-0.000456	± 2.5	PASS

		VN	0	1.51	0.000872	± 2.5	PASS
		VN	10	-1.76	-0.001016	± 2.5	PASS
		VN	20	0.54	0.000312	± 2.5	PASS
		VN	30	0.37	0.000214	± 2.5	PASS
		VN	40	-0.47	-0.000271	± 2.5	PASS
		VN	50	-1.84	-0.001062	± 2.5	PASS
	HCH	VN	-30	3.77	0.002149	± 2.5	PASS
		VN	-20	4.11	0.002343	± 2.5	PASS
		VN	-10	2.04	0.001163	± 2.5	PASS
		VN	0	3.35	0.001910	± 2.5	PASS
		VN	10	2.48	0.001414	± 2.5	PASS
		VN	20	0.31	0.000177	± 2.5	PASS
		VN	30	-0.63	-0.000359	± 2.5	PASS
		VN	40	-0.63	-0.000359	± 2.5	PASS
		VN	50	-1.49	-0.000849	± 2.5	PASS
16QAM	LCH	VN	-30	3.27	0.001911	± 2.5	PASS
		VN	-20	3.73	0.002180	± 2.5	PASS
		VN	-10	-0.34	-0.000199	± 2.5	PASS
		VN	0	-1.95	-0.001140	± 2.5	PASS
		VN	10	-0.78	-0.000456	± 2.5	PASS
		VN	20	-0.79	-0.000462	± 2.5	PASS
		VN	30	0.76	0.000444	± 2.5	PASS
		VN	40	0.74	0.000433	± 2.5	PASS
		VN	50	3.23	0.001888	± 2.5	PASS
	MCH	VN	-30	-1.24	-0.000707	± 2.5	PASS
		VN	-20	0.09	0.000051	± 2.5	PASS
		VN	-10	1.54	0.000878	± 2.5	PASS
		VN	0	-1.9	-0.001083	± 2.5	PASS
		VN	10	-1.15	-0.000656	± 2.5	PASS
		VN	20	0.25	0.000143	± 2.5	PASS
		VN	30	3.09	0.001761	± 2.5	PASS
		VN	40	0.68	0.000388	± 2.5	PASS
		VN	50	4.21	0.002400	± 2.5	PASS
	HCH	VN	-30	3.4	0.001938	± 2.5	PASS
		VN	-20	-1.1	-0.000627	± 2.5	PASS
		VN	-10	4.35	0.002480	± 2.5	PASS
		VN	0	4.85	0.002765	± 2.5	PASS
		VN	10	0.52	0.000296	± 2.5	PASS
		VN	20	-0.19	-0.000108	± 2.5	PASS
		VN	30	-0.24	-0.000137	± 2.5	PASS
		VN	40	-0.81	-0.000462	± 2.5	PASS

		VN	50	1.95	0.001112	± 2.5	PASS
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Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz+							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	0.62	0.000362	± 2.5	PASS
		VN	TN	3.88	0.002267	± 2.5	PASS
		VH	TN	3.68	0.002150	± 2.5	PASS
	MCH	VL	TN	-1.12	-0.000646	± 2.5	PASS
		VN	TN	1.52	0.000877	± 2.5	PASS
		VH	TN	1.81	0.001045	± 2.5	PASS
	HCH	VL	TN	4.81	0.002743	± 2.5	PASS
		VN	TN	4.31	0.002458	± 2.5	PASS
		VH	TN	-1.55	-0.000884	± 2.5	PASS
16QAM	LCH	VL	TN	1.16	0.000678	± 2.5	PASS
		VN	TN	-0.63	-0.000368	± 2.5	PASS
		VH	TN	-1.25	-0.000730	± 2.5	PASS
	MCH	VL	TN	3.29	0.001899	± 2.5	PASS
		VN	TN	4.17	0.002407	± 2.5	PASS
		VH	TN	0.69	0.000398	± 2.5	PASS
	HCH	VL	TN	-0.7	-0.000399	± 2.5	PASS
		VN	TN	3.29	0.001876	± 2.5	PASS
		VH	TN	3.57	0.002036	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.77	0.001034	± 2.5	PASS
		VN	-20	-1.98	-0.001157	± 2.5	PASS
		VN	-10	-1.5	-0.000876	± 2.5	PASS
		VN	0	-1.14	-0.000666	± 2.5	PASS
		VN	10	0.85	0.000497	± 2.5	PASS
		VN	20	2.76	0.001613	± 2.5	PASS
		VN	30	3.71	0.002168	± 2.5	PASS
		VN	40	0.89	0.000520	± 2.5	PASS
		VN	50	1.79	0.001046	± 2.5	PASS
	MCH	VN	-30	3.53	0.002038	± 2.5	PASS
		VN	-20	-1.1	-0.000635	± 2.5	PASS
		VN	-10	4.43	0.002557	± 2.5	PASS
		VN	0	3.12	0.001801	± 2.5	PASS

		VN	10	2.18	0.001258	± 2.5	PASS
		VN	20	-0.63	-0.000364	± 2.5	PASS
		VN	30	1.34	0.000773	± 2.5	PASS
		VN	40	2.31	0.001333	± 2.5	PASS
		VN	50	1.18	0.000681	± 2.5	PASS
	HCH	VN	-30	-1.51	-0.000861	± 2.5	PASS
		VN	-20	3.73	0.002127	± 2.5	PASS
		VN	-10	-0.63	-0.000359	± 2.5	PASS
		VN	0	3.08	0.001756	± 2.5	PASS
		VN	10	2.27	0.001295	± 2.5	PASS
		VN	20	1.68	0.000958	± 2.5	PASS
		VN	30	1.72	0.000981	± 2.5	PASS
		VN	40	-1.98	-0.001129	± 2.5	PASS
		VN	50	1.81	0.001032	± 2.5	PASS
		VN	-30	-0.42	-0.000242	± 2.5	PASS
16QAM	LCH	VN	-20	-1.94	-0.001120	± 2.5	PASS
		VN	-10	-0.48	-0.000277	± 2.5	PASS
		VN	0	2.64	0.001524	± 2.5	PASS
		VN	10	2.7	0.001558	± 2.5	PASS
		VN	20	0.55	0.000317	± 2.5	PASS
		VN	30	0.33	0.000190	± 2.5	PASS
		VN	40	0.98	0.000566	± 2.5	PASS
		VN	50	0.32	0.000185	± 2.5	PASS
	MCH	VN	-30	-0.86	-0.000490	± 2.5	PASS
		VN	-20	-1.97	-0.001123	± 2.5	PASS
		VN	-10	3.06	0.001745	± 2.5	PASS
		VN	0	-1.5	-0.000855	± 2.5	PASS
		VN	10	2.64	0.001506	± 2.5	PASS
		VN	20	1.34	0.000764	± 2.5	PASS
		VN	30	3.29	0.001876	± 2.5	PASS
		VN	40	3.42	0.001950	± 2.5	PASS
		VN	50	0.54	0.000308	± 2.5	PASS
	HCH	VN	-30	0.53	0.000302	± 2.5	PASS
		VN	-20	4.32	0.002464	± 2.5	PASS
		VN	-10	-0.48	-0.000274	± 2.5	PASS
		VN	0	1.82	0.001038	± 2.5	PASS
		VN	10	-1.65	-0.000941	± 2.5	PASS
		VN	20	0.65	0.000371	± 2.5	PASS
		VN	30	0.69	0.000393	± 2.5	PASS
		VN	40	4.75	0.002709	± 2.5	PASS
		VN	50	4.41	0.002515	± 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	3.18	0.001857	± 2.5	PASS
		VN	TN	-1.45	-0.000847	± 2.5	PASS
		VH	TN	1.08	0.000631	± 2.5	PASS
	MCH	VL	TN	4.41	0.002545	± 2.5	PASS
		VN	TN	-1.77	-0.001022	± 2.5	PASS
		VH	TN	2.6	0.001501	± 2.5	PASS
	HCH	VL	TN	4.23	0.002414	± 2.5	PASS
		VN	TN	1.96	0.001118	± 2.5	PASS
		VH	TN	1.98	0.001130	± 2.5	PASS
16QAM	LCH	VL	TN	3.21	0.001874	± 2.5	PASS
		VN	TN	-1.04	-0.000607	± 2.5	PASS
		VH	TN	-1.82	-0.001063	± 2.5	PASS
	MCH	VL	TN	-0.39	-0.000225	± 2.5	PASS
		VN	TN	-0.47	-0.000271	± 2.5	PASS
		VH	TN	3.61	0.002084	± 2.5	PASS
	HCH	VL	TN	1.92	0.001096	± 2.5	PASS
		VN	TN	2.5	0.001427	± 2.5	PASS
		VH	TN	1.87	0.001067	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.23	0.001302	± 2.5	PASS
		VN	-20	-1.41	-0.000823	± 2.5	PASS
		VN	-10	1.87	0.001092	± 2.5	PASS
		VN	0	-0.93	-0.000543	± 2.5	PASS
		VN	10	-0.66	-0.000385	± 2.5	PASS
		VN	20	1.33	0.000777	± 2.5	PASS
		VN	30	-0.87	-0.000508	± 2.5	PASS
		VN	40	-1.1	-0.000642	± 2.5	PASS
		VN	50	0.15	0.000088	± 2.5	PASS
	MCH	VN	-30	4.65	0.002684	± 2.5	PASS
		VN	-20	3.42	0.001974	± 2.5	PASS
		VN	-10	2.85	0.001645	± 2.5	PASS
		VN	0	-1.38	-0.000797	± 2.5	PASS
		VN	10	1.16	0.000670	± 2.5	PASS
		VN	20	2.2	0.001270	± 2.5	PASS

		VN	30	2.39	0.001380	± 2.5	PASS
		VN	40	2.83	0.001633	± 2.5	PASS
		VN	50	1.42	0.000820	± 2.5	PASS
	HCH	VN	-30	3.89	0.002220	± 2.5	PASS
		VN	-20	4.52	0.002370	± 2.5	PASS
		VN	-10	1.3	0.000682	± 2.5	PASS
		VN	0	2.71	0.001421	± 2.5	PASS
		VN	10	4.04	0.002118	± 2.5	PASS
		VN	20	3.47	0.001819	± 2.5	PASS
		VN	30	0.26	0.000136	± 2.5	PASS
		VN	40	0.84	0.000440	± 2.5	PASS
		VN	50	4.65	0.002438	± 2.5	PASS
16QAM	LCH	VN	-30	2.49	0.001437	± 2.5	PASS
		VN	-20	1.84	0.001062	± 2.5	PASS
		VN	-10	0.87	0.000502	± 2.5	PASS
		VN	0	3.18	0.001835	± 2.5	PASS
		VN	10	0.99	0.000571	± 2.5	PASS
		VN	20	1.45	0.000837	± 2.5	PASS
		VN	30	2	0.001154	± 2.5	PASS
		VN	40	4.7	0.002713	± 2.5	PASS
		VN	50	0.07	0.000040	± 2.5	PASS
	MCH	VN	-30	-0.85	-0.000485	± 2.5	PASS
		VN	-20	-0.6	-0.000342	± 2.5	PASS
		VN	-10	-0.57	-0.000325	± 2.5	PASS
		VN	0	-1.89	-0.001078	± 2.5	PASS
		VN	10	2.99	0.001706	± 2.5	PASS
		VN	20	-0.18	-0.000103	± 2.5	PASS
		VN	30	-0.36	-0.000205	± 2.5	PASS
		VN	40	4.06	0.002317	± 2.5	PASS
		VN	50	1.07	0.000611	± 2.5	PASS
	HCH	VN	-30	3.44	0.001803	± 2.5	PASS
		VN	-20	-0.87	-0.000456	± 2.5	PASS
		VN	-10	-1.31	-0.000687	± 2.5	PASS
		VN	0	2.54	0.001332	± 2.5	PASS
		VN	10	2.51	0.001316	± 2.5	PASS
		VN	20	0.69	0.000362	± 2.5	PASS
		VN	30	4.59	0.002406	± 2.5	PASS
		VN	40	4.43	0.002322	± 2.5	PASS
		VN	50	0.91	0.000477	± 2.5	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	3.51	0.002047	± 2.5	PASS
		VN	TN	0.12	0.000070	± 2.5	PASS
		VH	TN	3.13	0.001825	± 2.5	PASS
	MCH	VL	TN	0.32	0.000185	± 2.5	PASS
		VN	TN	3.27	0.001887	± 2.5	PASS
		VH	TN	2.41	0.001391	± 2.5	PASS
	HCH	VL	TN	-0.79	-0.000451	± 2.5	PASS
		VN	TN	-1.27	-0.000726	± 2.5	PASS
		VH	TN	4.03	0.002303	± 2.5	PASS
16QAM	LCH	VL	TN	2.19	0.001277	± 2.5	PASS
		VN	TN	2	0.001166	± 2.5	PASS
		VH	TN	3.72	0.002169	± 2.5	PASS
	MCH	VL	TN	-1.67	-0.000964	± 2.5	PASS
		VN	TN	4.63	0.002672	± 2.5	PASS
		VH	TN	1.79	0.001033	± 2.5	PASS
	HCH	VL	TN	2.98	0.001703	± 2.5	PASS
		VN	TN	0.35	0.000200	± 2.5	PASS
		VH	TN	1.61	0.000920	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.59	-0.000344	± 2.5	PASS
		VN	-20	4.83	0.002816	± 2.5	PASS
		VN	-10	3.2	0.001866	± 2.5	PASS
		VN	0	1.73	0.001009	± 2.5	PASS
		VN	10	0.33	0.000192	± 2.5	PASS
		VN	20	1.4	0.000816	± 2.5	PASS
		VN	30	3.8	0.002216	± 2.5	PASS
		VN	40	2.12	0.001236	± 2.5	PASS
		VN	50	4.4	0.002566	± 2.5	PASS
	MCH	VN	-30	-1.92	-0.001108	± 2.5	PASS
		VN	-20	-1.63	-0.000941	± 2.5	PASS
		VN	-10	0.24	0.000139	± 2.5	PASS
		VN	0	1.29	0.000745	± 2.5	PASS
		VN	10	3.92	0.002263	± 2.5	PASS
		VN	20	3.68	0.002124	± 2.5	PASS

		VN	30	-1.88	-0.001085	± 2.5	PASS
		VN	40	2.67	0.001541	± 2.5	PASS
		VN	50	0.88	0.000508	± 2.5	PASS
	HCH	VN	-30	-1.13	-0.000646	± 2.5	PASS
		VN	-20	3.89	0.002223	± 2.5	PASS
		VN	-10	0.27	0.000154	± 2.5	PASS
		VN	0	-0.24	-0.000137	± 2.5	PASS
		VN	10	3.53	0.002017	± 2.5	PASS
		VN	20	4.23	0.002417	± 2.5	PASS
		VN	30	-1.57	-0.000897	± 2.5	PASS
		VN	40	0.89	0.000509	± 2.5	PASS
		VN	50	0.47	0.000269	± 2.5	PASS
16QAM	LCH	VN	-30	4.83	0.002788	± 2.5	PASS
		VN	-20	3.92	0.002263	± 2.5	PASS
		VN	-10	4.05	0.002338	± 2.5	PASS
		VN	0	3.86	0.002228	± 2.5	PASS
		VN	10	3.05	0.001760	± 2.5	PASS
		VN	20	0.22	0.000127	± 2.5	PASS
		VN	30	2.71	0.001564	± 2.5	PASS
		VN	40	-1.39	-0.000802	± 2.5	PASS
		VN	50	4.42	0.002551	± 2.5	PASS
	MCH	VN	-30	0.51	0.000291	± 2.5	PASS
		VN	-20	2.82	0.001611	± 2.5	PASS
		VN	-10	2.02	0.001154	± 2.5	PASS
		VN	0	4.38	0.002503	± 2.5	PASS
		VN	10	0.24	0.000137	± 2.5	PASS
		VN	20	2.99	0.001709	± 2.5	PASS
		VN	30	2.58	0.001474	± 2.5	PASS
		VN	40	4.01	0.002291	± 2.5	PASS
		VN	50	-0.43	-0.000246	± 2.5	PASS
	HCH	VN	-30	1.52	0.000869	± 2.5	PASS
		VN	-20	1.44	0.000823	± 2.5	PASS
		VN	-10	-0.42	-0.000240	± 2.5	PASS
		VN	0	4.2	0.002400	± 2.5	PASS
		VN	10	3.7	0.002114	± 2.5	PASS
		VN	20	2.29	0.001309	± 2.5	PASS
		VN	30	0.22	0.000126	± 2.5	PASS
		VN	40	-0.97	-0.000554	± 2.5	PASS
		VN	50	3.01	0.001720	± 2.5	PASS

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-0.56	-0.000326	± 2.5	PASS
		VN	TN	1.43	0.000833	± 2.5	PASS
		VH	TN	1.13	0.000658	± 2.5	PASS
	MCH	VL	TN	1.04	0.000600	± 2.5	PASS
		VN	TN	-0.7	-0.000404	± 2.5	PASS
		VH	TN	3.83	0.002211	± 2.5	PASS
	HCH	VL	TN	-0.34	-0.000195	± 2.5	PASS
		VN	TN	4.25	0.002432	± 2.5	PASS
		VH	TN	-0.72	-0.000412	± 2.5	PASS
16QAM	LCH	VL	TN	-1.1	-0.000640	± 2.5	PASS
		VN	TN	2.84	0.001654	± 2.5	PASS
		VH	TN	-0.06	-0.000035	± 2.5	PASS
	MCH	VL	TN	0.8	0.000462	± 2.5	PASS
		VN	TN	1.26	0.000727	± 2.5	PASS
		VH	TN	0.34	0.000196	± 2.5	PASS
	HCH	VL	TN	0.6	0.000343	± 2.5	PASS
		VN	TN	0.01	0.000006	± 2.5	PASS
		VH	TN	3.22	0.001843	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.33	0.000192	± 2.5	PASS
		VN	-20	-0.37	-0.000215	± 2.5	PASS
		VN	-10	-1.56	-0.000908	± 2.5	PASS
		VN	0	4.46	0.002597	± 2.5	PASS
		VN	10	4.13	0.002405	± 2.5	PASS
		VN	20	-1.03	-0.000600	± 2.5	PASS
		VN	30	3.54	0.002061	± 2.5	PASS
		VN	40	4.88	0.002841	± 2.5	PASS
		VN	50	-0.03	-0.000017	± 2.5	PASS
	MCH	VN	-30	-1.92	-0.001108	± 2.5	PASS
		VN	-20	-0.61	-0.000352	± 2.5	PASS
		VN	-10	-1.52	-0.000877	± 2.5	PASS
		VN	0	-1.64	-0.000947	± 2.5	PASS
		VN	10	-1.48	-0.000854	± 2.5	PASS
		VN	20	0.38	0.000219	± 2.5	PASS

		VN	30	-1.98	-0.001143	± 2.5	PASS
		VN	40	-1.61	-0.000929	± 2.5	PASS
		VN	50	0.91	0.000525	± 2.5	PASS
	HCH	VN	-30	-0.06	-0.000034	± 2.5	PASS
		VN	-20	-0.75	-0.000429	± 2.5	PASS
		VN	-10	2.61	0.001494	± 2.5	PASS
		VN	0	1.23	0.000704	± 2.5	PASS
		VN	10	2.21	0.001265	± 2.5	PASS
		VN	20	3.24	0.001854	± 2.5	PASS
		VN	30	2.61	0.001494	± 2.5	PASS
		VN	40	-1.76	-0.001007	± 2.5	PASS
		VN	50	-0.34	-0.000195	± 2.5	PASS
16QAM	LCH	VN	-30	4.3	0.002482	± 2.5	PASS
		VN	-20	1.55	0.000895	± 2.5	PASS
		VN	-10	2.58	0.001489	± 2.5	PASS
		VN	0	0.85	0.000491	± 2.5	PASS
		VN	10	-1.52	-0.000877	± 2.5	PASS
		VN	20	-0.68	-0.000392	± 2.5	PASS
		VN	30	-1.93	-0.001114	± 2.5	PASS
		VN	40	3.36	0.001939	± 2.5	PASS
		VN	50	-0.92	-0.000531	± 2.5	PASS
	MCH	VN	-30	4.39	0.002512	± 2.5	PASS
		VN	-20	4.01	0.002295	± 2.5	PASS
		VN	-10	-1.49	-0.000853	± 2.5	PASS
		VN	0	-1.11	-0.000635	± 2.5	PASS
		VN	10	2.19	0.001253	± 2.5	PASS
		VN	20	3.07	0.001757	± 2.5	PASS
		VN	30	2.16	0.001236	± 2.5	PASS
		VN	40	3.09	0.001768	± 2.5	PASS
		VN	50	0.06	0.000034	± 2.5	PASS
	HCH	VN	-30	3.07	0.001757	± 2.5	PASS
		VN	-20	-1.42	-0.000813	± 2.5	PASS
		VN	-10	0.86	0.000492	± 2.5	PASS
		VN	0	0.85	0.000486	± 2.5	PASS
		VN	10	3.1	0.001774	± 2.5	PASS
		VN	20	0.04	0.000023	± 2.5	PASS
		VN	30	4.43	0.002535	± 2.5	PASS
		VN	40	0.44	0.000252	± 2.5	PASS
		VN	50	4.14	0.002369	± 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	1.77	0.001029	± 2.5	PASS
		VN	TN	1.12	0.000651	± 2.5	PASS
		VH	TN	4.31	0.002506	± 2.5	PASS
	MCH	VL	TN	-0.31	-0.000179	± 2.5	PASS
		VN	TN	2.12	0.001224	± 2.5	PASS
		VH	TN	3.48	0.002009	± 2.5	PASS
	HCH	VL	TN	-1.18	-0.000676	± 2.5	PASS
		VN	TN	1.54	0.000883	± 2.5	PASS
		VH	TN	2.82	0.001616	± 2.5	PASS
16QAM	LCH	VL	TN	-0.55	-0.000320	± 2.5	PASS
		VN	TN	-0.6	-0.000349	± 2.5	PASS
		VH	TN	3.7	0.002151	± 2.5	PASS
	MCH	VL	TN	2.06	0.001189	± 2.5	PASS
		VN	TN	2.42	0.001397	± 2.5	PASS
		VH	TN	0.41	0.000237	± 2.5	PASS
	HCH	VL	TN	0.84	0.000481	± 2.5	PASS
		VN	TN	-0.42	-0.000241	± 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	1.21	0.000703	± 2.5	PASS
		VN	-20	4.25	0.002471	± 2.5	PASS
		VN	-10	1.34	0.000779	± 2.5	PASS
		VN	0	3.3	0.001919	± 2.5	PASS
		VN	10	0.13	0.000076	± 2.5	PASS
		VN	20	2.88	0.001674	± 2.5	PASS
		VN	30	2.2	0.001279	± 2.5	PASS
		VN	40	0.77	0.000448	± 2.5	PASS
		VN	50	4.11	0.002390	± 2.5	PASS
	MCH	VN	-30	-1.8	-0.001039	± 2.5	PASS
		VN	-20	2.07	0.001195	± 2.5	PASS
		VN	-10	4.47	0.002580	± 2.5	PASS
		VN	0	0.63	0.000364	± 2.5	PASS
		VN	10	-0.11	-0.000063	± 2.5	PASS
		VN	20	3.6	0.002078	± 2.5	PASS

		VN	30	0.1	0.000058	± 2.5	PASS
		VN	40	1.62	0.000935	± 2.5	PASS
		VN	50	-1.69	-0.000975	± 2.5	PASS
	HCH	VN	-30	-1.39	-0.000797	± 2.5	PASS
		VN	-20	-0.41	-0.000235	± 2.5	PASS
		VN	-10	-0.1	-0.000057	± 2.5	PASS
		VN	0	-0.65	-0.000372	± 2.5	PASS
		VN	10	0.32	0.000183	± 2.5	PASS
		VN	20	2.48	0.001421	± 2.5	PASS
		VN	30	3.68	0.002109	± 2.5	PASS
		VN	40	3.72	0.002132	± 2.5	PASS
		VN	50	-2	-0.001146	± 2.5	PASS
16QAM	LCH	VN	-30	-1.89	-0.001091	± 2.5	PASS
		VN	-20	-0.66	-0.000381	± 2.5	PASS
		VN	-10	1.06	0.000612	± 2.5	PASS
		VN	0	2.37	0.001368	± 2.5	PASS
		VN	10	-1.48	-0.000854	± 2.5	PASS
		VN	20	2.07	0.001195	± 2.5	PASS
		VN	30	0.49	0.000283	± 2.5	PASS
		VN	40	1.27	0.000733	± 2.5	PASS
		VN	50	2.69	0.001553	± 2.5	PASS
	MCH	VN	-30	-0.66	-0.000378	± 2.5	PASS
		VN	-20	-1.34	-0.000768	± 2.5	PASS
		VN	-10	0.35	0.000201	± 2.5	PASS
		VN	0	3.75	0.002149	± 2.5	PASS
		VN	10	1.31	0.000751	± 2.5	PASS
		VN	20	3.06	0.001754	± 2.5	PASS
		VN	30	-0.6	-0.000344	± 2.5	PASS
		VN	40	0.42	0.000241	± 2.5	PASS
		VN	50	1.05	0.000602	± 2.5	PASS
	HCH	VN	-30	-1.97	-0.001129	± 2.5	PASS
		VN	-20	-1.07	-0.000613	± 2.5	PASS
		VN	-10	2.89	0.001656	± 2.5	PASS
		VN	0	0.26	0.000149	± 2.5	PASS
		VN	10	3.89	0.002229	± 2.5	PASS
		VN	20	-1.17	-0.000670	± 2.5	PASS
		VN	30	-0.7	-0.000401	± 2.5	PASS
		VN	40	0.92	0.000527	± 2.5	PASS
		VN	50	2.62	0.001501	± 2.5	PASS